



17 October 2013

Delaney Peterson
ANCHOR QEA, LLC
720 Olive Way, Suite 1900
Seattle, WA 98101

Ph.: 206-903-9996
Email: dpeterson@anchorqea.com

Subject: Certificate of Results

Dear Delaney;

Attached to this narrative are the analytical results you requested on the samples submitted for the determination of polychlorinated biphenyl congeners. The insert below summarizes the relevant information pertaining to your project. In particular, QC annotations bring to your attention specific analytical observations and assessments made during the sample handling and data interpretation phases. Results reported relate only to the items tested.

Project Information Summary	When applicable, see QC Annotations for details
Client Project No.	Jeld-Wen Former Nord Door Site
AP Project #	A5942
Analytical Protocol	Method 1668A
No. Samples Submitted	8 (water rinsate only - this project)
No. Samples Analyzed	1
No. Laboratory Method Blanks	1
No. OPRs / Batch CS3	1
No. Outstanding Samples	0
Date Received	21-Sep-2013
Condition Received	good
Temperature upon Receipt (C)	3
Extraction within Holding Time	yes
Analysis within Holding Time	yes
Data meet QA/QC Requirements	yes
Exceptions	none
Analytical Difficulties	none

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

**QC Annotations:**

Please see Appendix A & B attached for data qualifier/attribute and lab identifier descriptions which may be contained in the project.

ES recoveries PCB-1 and PCB-4 in the field sample are slightly below limits (15% and 25% respectively). This has little impact, with detection limits elevated just slightly above the reporting limits for a few congeners (< PCB-10).

Analytical Perspectives Certification IDs:

SOUTH CAROLINA	99054
ARKANSAS	88-0628
NEW JERSEY-NELAP SECONDARY	NC005
FLORIDA-NELAP PRIMARY	E87608
LOUISIANA	4024
NORTH CAROLINA	37783
WASHINGTON	C2027
NEW YORK	11988
VIRGINIA	460180
MINNESOTA	037-999-448
OREGON	pending
TEXAS	T104704484-10-1
PENNSYLVANIA-NELAP SECONDARY	68-01849

SGS Analytical Perspectives remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact us.

The management and staff of SGS Analytical Perspectives welcomes customer feedback, both positive and negative, as we continually improve our services. Please visit our web site at www.ultratrace.com and click on the 'Leave Your Feedback Here!' link on the Home Page. Thank you for choosing SGS Analytical Perspectives.


Sincerely,

Todd Vilen
Project Manager
AK/ak



APPENDIX A: DATA QUALIFIERS / DATA ATTRIBUTES	
>	Indicates high recoveries. Shown with the numeric value at the top of the range. ¹
B	The analyte was found in the method blank, at a concentration that was at least 10% of the concentration in the sample.
C	Two or more congeners co-elute. In EDDs C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group are shown with the number of the lowest IUPAC co-eluter.
E	The reported concentration exceeds the calibration range (upper point of the calibration curve).
EMPC	Represents an Estimated Maximum Possible Concentration. EMPC's arise in cases where the signal/noise ratio is not sufficient for peak identification (the determined ion-abundance ratio is outside the allowed theoretical range), or where there is a co-eluting interference.
ETH	Indicates the presence of a diphenyl ether that appears to interfere with the quantitation of a furan. The reported concentration is the maximum.
H/h	If the standard recovery is below the method or SOP specified value "H" is assigned. If the obtained value is less than half the specified value "h" is assigned. ¹
J	Indicates that an analyte has a concentration below the reporting limit (lowest point of the calibration curve).
ND	Indicates a non-detect.
NR	Indicates a value that is not reportable.
PR	Due to interference, the associated congener is poorly resolved.
QI	Indicates the presence of a quantitative interference.
SI	Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates. ¹
U	The analyte was not detected. The estimated detection limit (EDL) may be reported for this analyte.
V	The labeled standard recovery was found to be outside of the method control limits.
X	Indicates results reported from reinjection, refractionation, or repeat analyses.
APPENDIX B: LAB ID IDENTIFIERS	
AR	Indicates use of the archived portion of the sample extract.
CU	Indicates a sample that required additional clean-up prior to MS injection/processing.
D	Indicates a dilution of the sample extract. The number that follows the "D" indicates the dilution factor.
DE	Indicates a dilution performed with the addition of ES (extraction standard) solution.
DUP	Designation for a duplicate sample.
MS	Designation for a matrix spike.
MSD	Designation for a matrix spike duplicate.
RJ	Indicates a reinjection of the sample extract.
S	Indicates a sample split. The number that follows the "S" indicates the split factor.

¹Denotes data qualifiers/attributes whose use will be phased out over time

Sample Summary			Method 1668A
Analyte	Method Blank A5942	JW-RB-130913	
	Conc. pg/L	Conc. pg/L	
PCB-77	(0.335)	(0.687)	
PCB-81	(0.368)	(0.77)	
PCB-105	(0.388)	1.72	
PCB-114	(0.333)	(0.723)	
PCB-118	[0.477]	[3.29]	
PCB-123	(0.342)	(0.757)	
PCB-126	(0.283)	(0.576)	
PCB-156/157	(0.432)	(1.01)	
PCB-167	(0.26)	(0.651)	
PCB-169	(0.31)	(0.762)	
PCB-189	(0.264)	(0.655)	
Total Mono-CBs	3.96	(10.6)	
Total Di-CBs	33.5	11.8	
Total Tri-CBs	6.42	1.59	
Total Tetra-CBs	24.6	5.4	
Total Penta-CBs	1.85	10.7	
Total Hexa-CBs	2.53	25.7	
Total Hepta-CBs	2.31	16.4	
Total Octa-CBs	(0.373)	7.37	
Total Nona-CBs	(0.563)	(1.1)	
PCB-209	0.874	1.22	
TEQs (WHO 2005 M/H)			
ND = 0; EMPC = 0	0	0.0000516	
ND = 0; EMPC = EMPC	0.0000143	0.00015	
ND = DL/2; EMPC = 0	0.0189	0.0405	
ND = DL/2; EMPC = EMPC	0.0189	0.0406	
ND = DL; EMPC = 0	0.0378	0.081	
ND = DL; EMPC = EMPC	0.0378	0.0811	


() = DL
[] = EMPC

Checkcode

016-783-WJF

074-145-RRR

Project ID: Jeld-Wen Former Nord Door Site

PCB Recoveries			Method 1668A
Standard	Method Blank A5942	JW-RB-130913	
ES PCB-1	67.2	8.45	
ES PCB-3	75.6	33.7	
ES PCB-4	83.1	21.8	
ES PCB-15	95.9	133	
ES PCB-19	87	70.5	
ES PCB-37	90.2	97.2	
ES PCB-54	91	44.8	
ES PCB-77	86.2	118	
ES PCB-81	85.4	115	
ES PCB-104	108	69.4	
ES PCB-105	90.3	102	
ES PCB-114	92.1	101	
ES PCB-118	92.7	102	
ES PCB-123	92.6	99.8	
ES PCB-126	85.9	101	
ES PCB-153	95.4	97.8	
ES PCB-155	96.2	78.3	
ES PCB-156/157	84.9	88.8	
ES PCB-167	86.7	88.8	
ES PCB-169	82.3	86.6	
ES PCB-170	92.4	95.6	
ES PCB-180	95	100	
ES PCB-188	109	105	
ES PCB-189	90.7	96.5	
ES PCB-202	99.8	101	
ES PCB-205	88.6	93	
ES PCB-206	93.4	96.6	
ES PCB-208	92.2	97.1	
ES PCB-209	84.8	90.3	

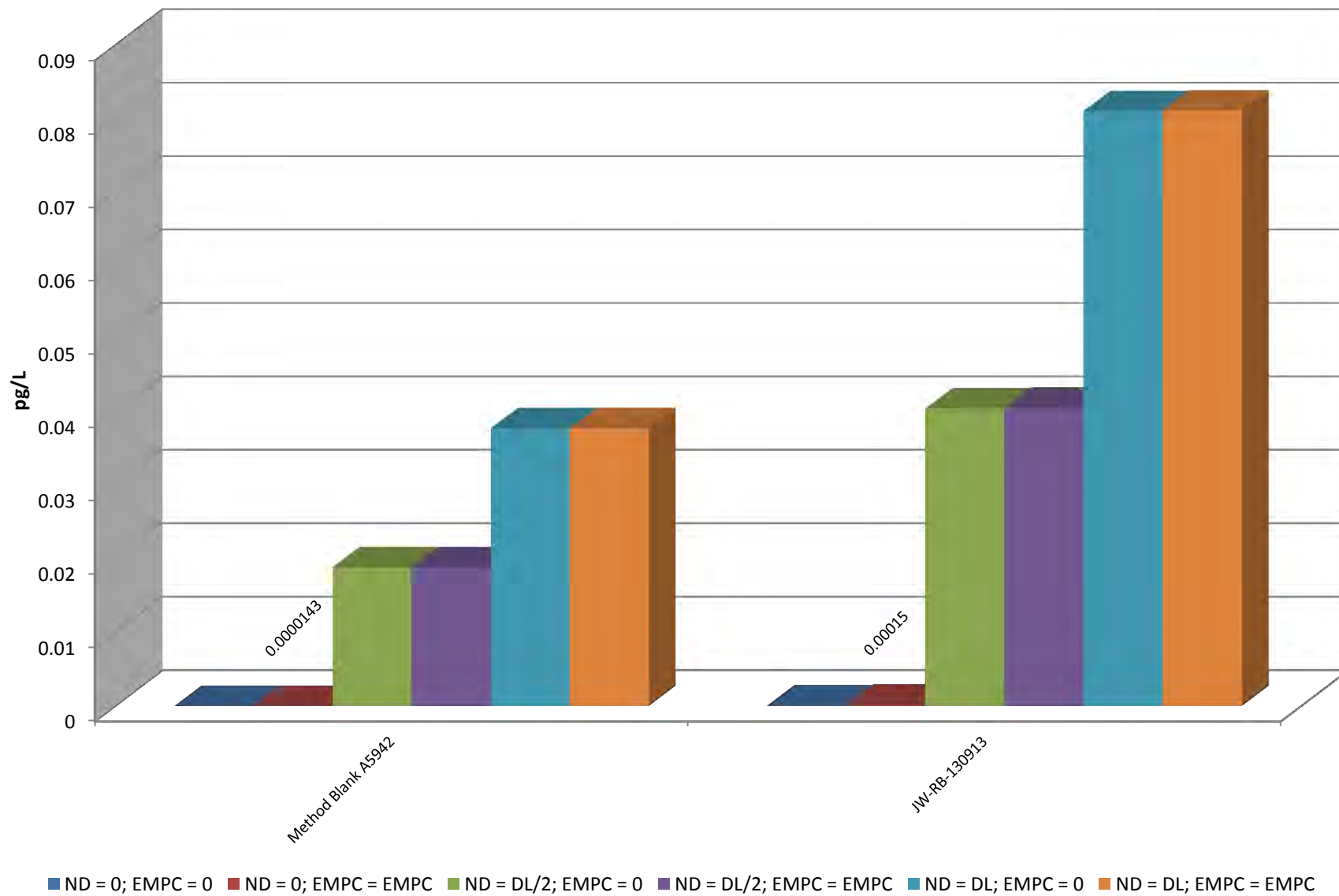
Checkcode

016-783-WJF

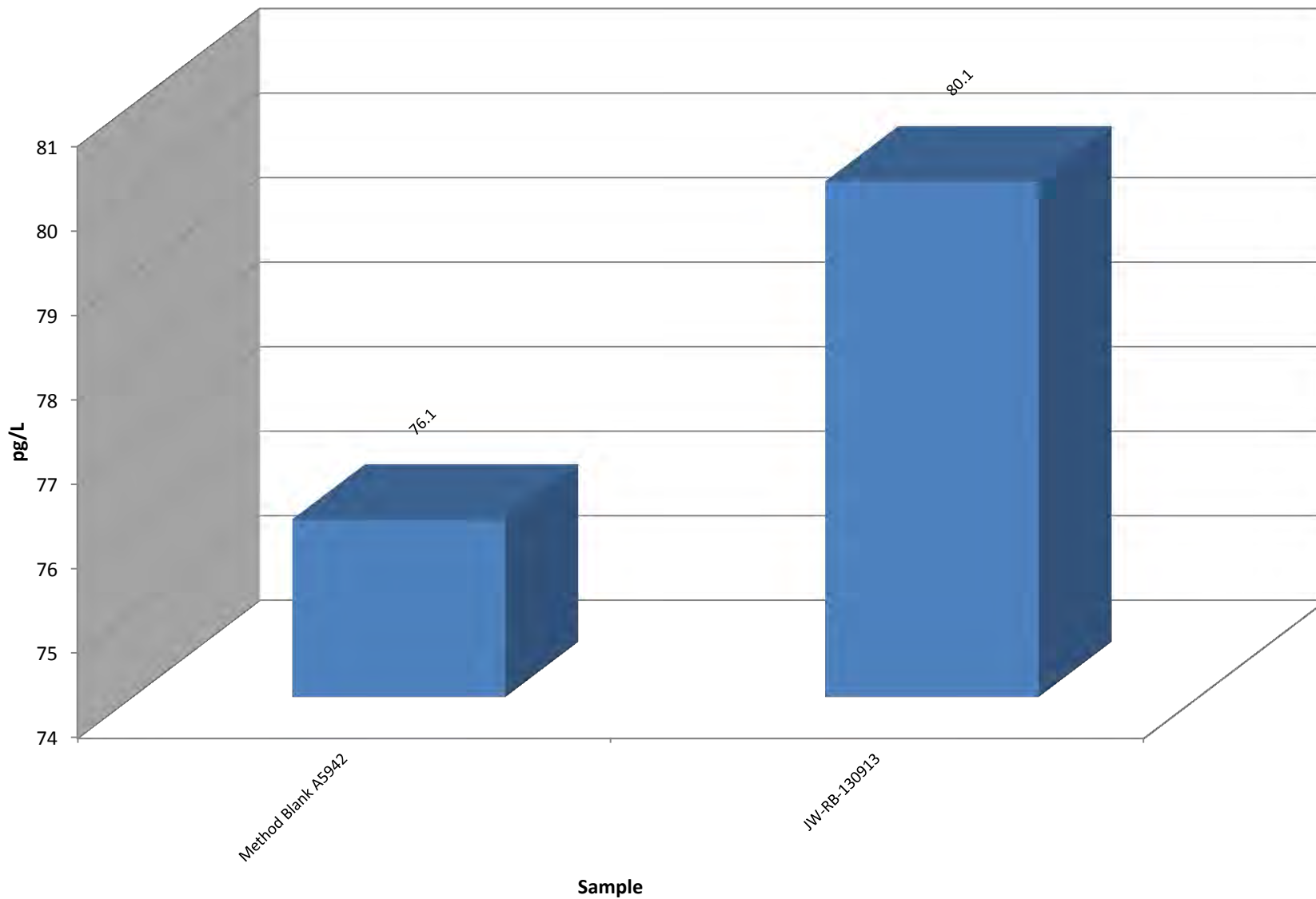
074-145-RRR

() = DL
 [] = EMPC

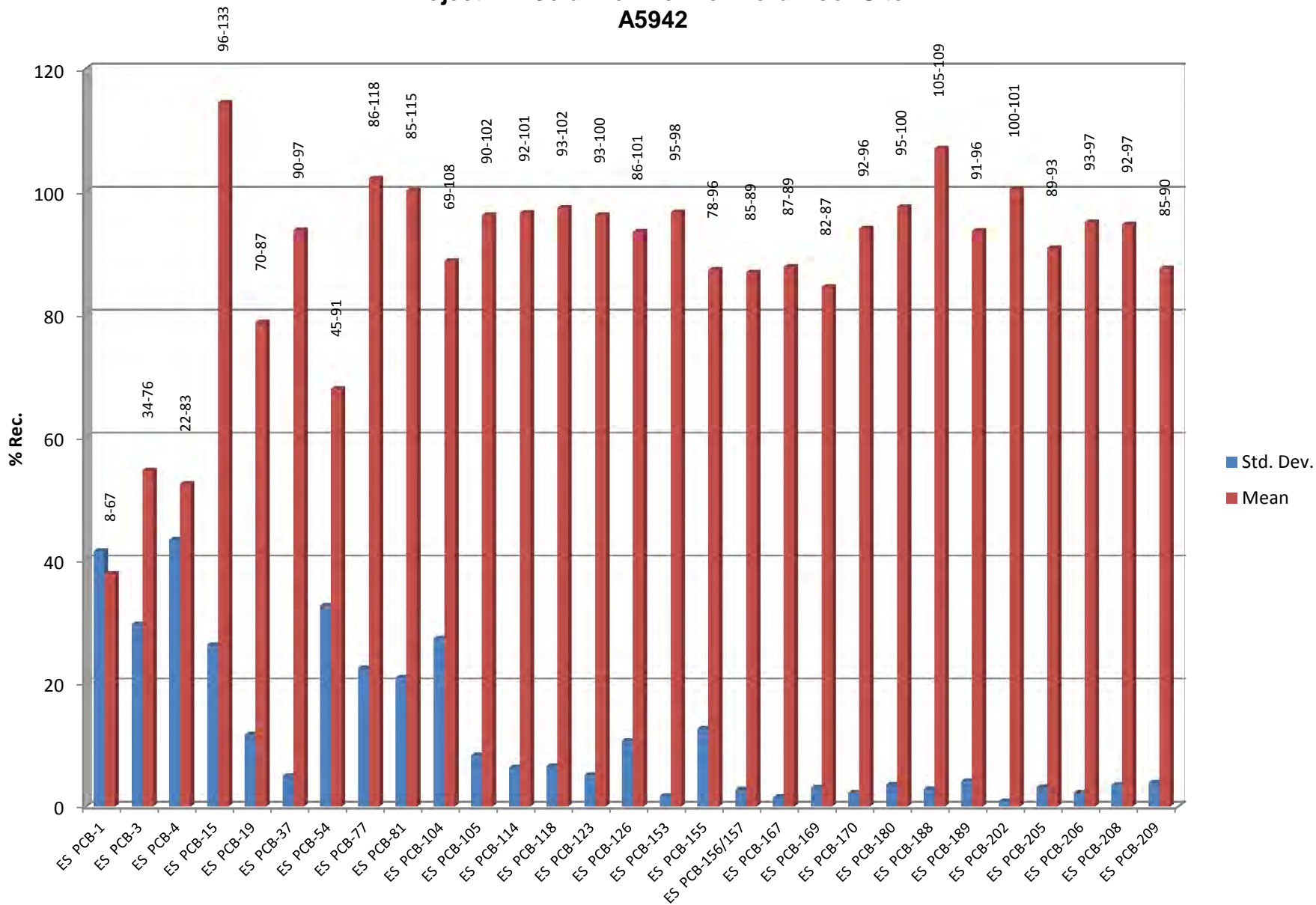
PCB TEQ
Project ID: Jeld-Wen Former Nord Door Site
A5942



PCB Totals
Project ID: Jeld-Wen Former Nord Door Site
A5942



Mean Recoveries of Extraction Standards (N=2)
Project ID: Jeld-Wen Former Nord Door Site
A5942



Sample ID: Method Blank A5942**Method 1668A**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A5942	Date Received:	n/a
Project ID:	Jeld-Wen Former Nord Door Site	Weight/Volume:	1.00 L	Sample ID:	MB1_11361_PCB_TLX-RJ	Date Extracted:	27-Sep-2013
Date Collected:	n/a	pH	n/a	QC Batch No.:	11361	Date Analyzed:	14-Oct-2013
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	ND	0.335			ES PCB-1	67.2	
PCB-81 344'5'-TeCB	ND	0.368			ES PCB-3	75.6	
PCB-105 233'44'-PeCB	ND	0.388			ES PCB-4	83.1	
PCB-114 2344'5'-PeCB	ND	0.333			ES PCB-15	95.9	
PCB-118 23'44'5'-PeCB	EMPC		0.477	J	ES PCB-19	87	
PCB-123 23'44'5'-PeCB	ND	0.342			ES PCB-37	90.2	
PCB-126 33'44'5'-PeCB	ND	0.283			ES PCB-54	91	
PCB-156/157 233'44'5'/233'44'5'-HxCB	ND	0.432		C	ES PCB-77	86.2	
PCB-167 23'44'55'-HxCB	ND	0.26			ES PCB-81	85.4	
PCB-169 33'44'55'-HxCB	ND	0.31			ES PCB-104	108	
PCB-189 233'44'55'-HpCB	ND	0.264			ES PCB-105	90.3	
					ES PCB-114	92.1	
TEQs (WHO M/H)					ES PCB-118	92.7	
					ES PCB-123	92.6	
ND = 0	0		0.0000143		ES PCB-126	85.9	
ND = 0.5 x DL	0.0189		0.0189		ES PCB-153	95.4	
ND = DL	0.0378		0.0378		ES PCB-155	96.2	
					ES PCB-156/157	84.9	
Totals					ES PCB-167	86.7	
Mono-CBs	3.96				ES PCB-169	82.3	
Di-CBs	33.5				ES PCB-170	92.4	
Tri-CBs	6.42		7.42		ES PCB-180	95	
Tetra-CBs	24.6		26.4		ES PCB-188	109	
Penta-CBs	1.85		3.29		ES PCB-189	90.7	
Hexa-CBs	2.53		3.86		ES PCB-202	99.8	
Hepta-CBs	2.31		3.51		ES PCB-205	88.6	
Octa-CBs	ND	0.373			ES PCB-206	93.4	
Nona-CBs	ND	0.563			ES PCB-208	92.2	
Deca-CB	0.874			J	ES PCB-209	84.8	
					CS PCB-28	90.3	
Total PCB (Mono-Deca)	76.1		82.8		CS PCB-111	91.9	
					CS PCB-178	107	


Checkcode: 016-783-WJF

SGS AP PCB 2013 Rev. 2.1

Report Created: 15-Oct-2013 11:48 Analyst: JJ



2714 Exchange Drive T: 910 794-1613
 Wilmington F: 910 794-3919
 North Carolina 28405 www.us.sgs.com
 USA

Sample ID: Method Blank A5942						Method 1668A														
Client Data			Sample Data			Laboratory Data														
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A5942			Date Received: n/a											
Project ID: Jeld-Wen Former Nord Door Site			Weight/Volume: 1.00 L			Sample ID: MB1_11361_PCB_TLX-RJ			Date Extracted: 27-Sep-2013											
Date Collected: n/a			pH: n/a			QC Batch No.: 11361			Date Analyzed: 14-Oct-2013											
			Units: pg/L			Checkcode: 016-783-WJF			Time Analyzed: 18:46:09											
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers									
PCB-1	1.42	J	PCB-19	(0.707)		PCB-54	(0.306)		PCB-72	(0.352)										
PCB-2	1.03	J	PCB-30/18	1.21	J C	PCB-50/53	(0.469)	C	PCB-68	6.75	J									
PCB-3	1.51	J	PCB-17	(0.625)		PCB-45	(0.527)		PCB-57	(0.367)										
			PCB-27	(0.468)		PCB-51	13.8		PCB-58	(0.353)										
Conc.	3.96		PCB-24	(0.491)		PCB-46	(0.568)		PCB-67	(0.338)										
EMPC	3.96		PCB-16	(0.781)		PCB-52	[1.26]	J EMPC	PCB-63	(0.324)										
			PCB-32	(0.441)		PCB-73	(0.355)		PCB-61/70/74/76	1.24	J C									
Di	Conc.	Qualifiers	PCB-34	(0.45)		PCB-43	(0.628)		PCB-66	[0.51]	J EMPC									
PCB-4	(0.944)		PCB-23	(0.439)		PCB-69/49	0.701	J C	PCB-55	(0.367)										
PCB-10	(0.656)		PCB-26/29	(0.434)	C	PCB-48	(0.494)		PCB-56	(0.382)										
PCB-9	(0.611)		PCB-25	(0.434)		PCB-44/47/65	2.11	J C	PCB-60	(0.364)										
PCB-7	(0.534)		PCB-31	1.16	J	PCB-59/62/75	(0.365)	C	PCB-80	(0.323)										
PCB-6	(0.58)		PCB-28/20	1.57	J C	PCB-42	(0.545)		PCB-79	(0.319)										
PCB-5	(0.572)		PCB-21/33	1.33	J C	PCB-41	(0.56)		PCB-78	(0.379)										
PCB-8	1.17	J	PCB-22	[0.519]	J EMPC	PCB-71/40	(0.498)	C	PCB-81	(0.368)										
PCB-14	(0.496)		PCB-36	(0.426)		PCB-64	(0.339)		PCB-77	(0.335)										
PCB-11	31.8		PCB-39	(0.414)																
PCB-13/12	(0.557)	C	PCB-38	(0.456)																
PCB-15	0.614	J	PCB-35	1.16	J															
			PCB-37	[0.474]	J EMPC															
Conc.	33.5		Conc.	6.42					Conc.	24.6										
EMPC	33.5		EMPC	7.42					EMPC	26.4										
 <p>2714 Exchange Drive Wilmington, NC 28405, USA</p> <p>Tel: +1 910 794-1613 Fax: +1 910 794-3919 www.us.sgs.com</p>						Totals			Conc.			EMPC								
												Mono-Tri			43.9			44.9		
												Tetra-Hexa			29			33.5		
												Hepta-Deca			3.18			4.38		
												Mono-Deca			76.1			82.8		

Sample ID: Method Blank A5942						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.211)		PCB-108/119/86/97/125/87	(0.403)	C	PCB-155	(0.223)		PCB-165	(0.303)	
PCB-96	(0.263)		PCB-117	(0.38)		PCB-152	(0.24)		PCB-146	(0.312)	
PCB-103	(0.426)		PCB-116/85	(0.395)	C	PCB-150	(0.241)		PCB-161	(0.273)	
PCB-94	(0.496)		PCB-110	0.941	J	PCB-136	(0.262)		PCB-153/168	[1.33]	J EMPC C
PCB-95	0.91	J	PCB-115	(0.332)		PCB-145	(0.254)		PCB-141	(0.355)	
PCB-100/93	(0.447)	C	PCB-82	(0.559)		PCB-148	(0.35)		PCB-130	(0.406)	
PCB-102	(0.377)		PCB-111	(0.333)		PCB-151/135	(0.362)	C	PCB-137	(0.327)	
PCB-98	(0.539)		PCB-120	(0.335)		PCB-154	(0.318)		PCB-164	(0.287)	
PCB-88	(0.512)		PCB-107/124	(0.36)	C	PCB-144	(0.352)		PCB-163/138/129	1.43	J C
PCB-91	(0.404)		PCB-109	(0.333)		PCB-147/149	1.11	J C	PCB-160	(0.296)	
PCB-84	(0.532)		PCB-123	(0.342)		PCB-134	(0.462)		PCB-158	(0.257)	
PCB-89	(0.499)		PCB-106	(0.375)		PCB-143	(0.385)		PCB-128/166	(0.33)	C
PCB-121	(0.338)		PCB-118	[0.477]	J EMPC	PCB-139/140	(0.341)	C	PCB-159	(0.279)	
PCB-92	(0.479)		PCB-122	(0.395)		PCB-131	(0.395)		PCB-162	(0.269)	
PCB-113/90/101	[0.958]	J EMPC C	PCB-114	(0.333)		PCB-142	(0.386)		PCB-167	(0.26)	
PCB-83	(0.542)		PCB-105	(0.388)		PCB-132	(0.383)		PCB-156/157	(0.432)	C
PCB-99	(0.438)		PCB-127	(0.417)		PCB-133	(0.369)		PCB-169	(0.31)	
PCB-112	(0.348)		PCB-126	(0.283)							
			Conc.	1.85					Conc.	2.53	
			EMPC	3.29					EMPC	3.86	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.223)		PCB-174	[0.567]	J EMPC	PCB-202	(0.35)		PCB-208	(0.488)	
PCB-179	(0.245)		PCB-177	(0.491)		PCB-201	(0.325)		PCB-207	(0.481)	
PCB-184	(0.253)		PCB-181	(0.43)		PCB-204	(0.346)		PCB-206	(0.639)	
PCB-176	(0.224)		PCB-171/173	(0.49)	C	PCB-197	(0.314)				
PCB-186	(0.242)		PCB-172	(0.475)		PCB-200	(0.339)		Conc.	0	
PCB-178	(0.323)		PCB-192	(0.37)		PCB-198/199	(0.445)	C	EMPC	0	
PCB-175	(0.44)		PCB-180/193	1.46	J C	PCB-196	(0.434)				
PCB-187	0.845	J	PCB-191	(0.353)		PCB-203	(0.424)		Deca	Conc.	Qualifiers
PCB-182	(0.407)		PCB-170	[0.63]	J EMPC	PCB-195	(0.513)		PCB-209	0.874	J
PCB-183	(0.416)		PCB-190	(0.373)		PCB-194	(0.48)				
PCB-185	(0.421)		PCB-189	(0.264)		PCB-205	(0.395)				
			Conc.	2.31		Conc.	0				
			EMPC	3.51		EMPC	0				

Sample ID: JW-RB-130913**Method 1668A**

Client Data		Sample Data		Laboratory Data			
Name:	ANCHOR QEA	Matrix:	Aqueous	Project No.:	A5942	Date Received:	23-Sep-2013
Project ID:	Jeld-Wen Former Nord Door Site	Weight/Volume:	0.86 L	Sample ID:	A5942_11361_PCB_001-RJ	Date Extracted:	27-Sep-2013
Date Collected:	19-Sep-2013	pH	5	QC Batch No.:	11361	Date Analyzed:	14-Oct-2013
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/L	pg/L	pg/L			%	
PCB-77 33'44'-TeCB	ND	0.687			ES PCB-1	8.45 V	
PCB-81 344'5'-TeCB	ND	0.77			ES PCB-3	33.7	
PCB-105 233'44'-PeCB	1.72			J	ES PCB-4	21.8 V	
PCB-114 2344'5'-PeCB	ND	0.723			ES PCB-15	133	
PCB-118 23'44'5'-PeCB	EMPC		3.29	J B	ES PCB-19	70.5	
PCB-123 23'44'5'-PeCB	ND	0.757			ES PCB-37	97.2	
PCB-126 33'44'5'-PeCB	ND	0.576			ES PCB-54	44.8	
PCB-156/157 233'44'5'/233'44'5'-HxCB	ND	1.01		C	ES PCB-77	118	
PCB-167 23'44'55'-HxCB	ND	0.651			ES PCB-81	115	
PCB-169 33'44'55'-HxCB	ND	0.762			ES PCB-104	69.4	
PCB-189 233'44'55'-HpCB	ND	0.655			ES PCB-105	102	
					ES PCB-114	101	
TEQs (WHO M/H)					ES PCB-118	102	
					ES PCB-123	99.8	
ND = 0	0.0000516		0.00015		ES PCB-126	101	
ND = 0.5 x DL	0.0405		0.0406		ES PCB-153	97.8	
ND = DL	0.081		0.0811		ES PCB-155	78.3	
					ES PCB-156/157	88.8	
Totals					ES PCB-167	88.8	
Mono-CBs	ND	10.6			ES PCB-169	86.6	
Di-CBs	11.8				ES PCB-170	95.6	
Tri-CBs	1.59				ES PCB-180	100	
Tetra-CBs	5.4		6.33		ES PCB-188	105	
Penta-CBs	10.7		18		ES PCB-189	96.5	
Hexa-CBs	25.7				ES PCB-202	101	
Hepta-CBs	16.4		25		ES PCB-205	93	
Octa-CBs	7.37		9.94		ES PCB-206	96.6	
Nona-CBs	ND	1.1			ES PCB-208	97.1	
Deca-CB	1.22			J B	ES PCB-209	90.3	
					CS PCB-28	79.6	
Total PCB (Mono-Deca)	80.1		99.5		CS PCB-111	99.3	
					CS PCB-178	112	


Checkcode: 074-145-RRR

SGS AP PCB 2013 Rev. 2.1

Report Created: 15-Oct-2013 11:50 Analyst: JJ



2714 Exchange Drive T: 910 794-1613
 Wilmington F: 910 794-3919
 North Carolina 28405 www.us.sgs.com
 USA

Sample ID: JW-RB-130913						Method 1668A								
Client Data			Sample Data			Laboratory Data								
Name: ANCHOR QEA			Matrix: Aqueous			Project No.: A5942			Date Received: 23-Sep-2013					
Project ID: Jeld-Wen Former Nord Door Site			Weight/Volume: 0.86 L			Sample ID: A5942_11361_PCB_001-RJ			Date Extracted: 27-Sep-2013					
Date Collected: 19-Sep-2013			pH: 5			QC Batch No.: 11361			Date Analyzed: 14-Oct-2013					
			Units: pg/L			Checkcode: 074-145-RRR			Time Analyzed: 19:42:16					
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers			
PCB-1	(16.2)		PCB-19	(9.33)		PCB-54	(2.19)		PCB-72	(0.738)				
PCB-2	(4.95)		PCB-30/18	(7.26)	C	PCB-50/53	(0.966)	C	PCB-68	(0.681)				
PCB-3	(5.11)		PCB-17	(8.26)		PCB-45	(1.09)		PCB-57	(0.768)				
			PCB-27	(6.18)		PCB-51	(0.962)		PCB-58	(0.739)				
Conc.	0		PCB-24	(6.48)		PCB-46	(1.17)		PCB-67	(0.708)				
EMPC	0		PCB-16	(10.3)		PCB-52	2.31	J B	PCB-63	(0.677)				
			PCB-32	(5.82)		PCB-73	(0.732)		PCB-61/70/74/76	3.09	J B C			
Di	Conc.	Qualifiers	PCB-34	(1.4)		PCB-43	(1.29)		PCB-66	[0.929]	J B EMPC			
PCB-4	(37)		PCB-23	(1.36)		PCB-69/49	(0.841)	C	PCB-55	(0.769)				
PCB-10	(25.7)		PCB-26/29	(1.35)	C	PCB-48	(1.02)		PCB-56	(0.799)				
PCB-9	(4.08)		PCB-25	(1.34)		PCB-44/47/65	(0.962)	C	PCB-60	(0.762)				
PCB-7	(3.57)		PCB-31	(1.3)		PCB-59/62/75	(0.752)	C	PCB-80	(0.676)				
PCB-6	(3.87)		PCB-28/20	1.59	J B C	PCB-42	(1.12)		PCB-79	(0.667)				
PCB-5	(3.82)		PCB-21/33	(1.33)	C	PCB-41	(1.16)		PCB-78	(0.793)				
PCB-8	(3.76)		PCB-22	(1.44)		PCB-71/40	(1.03)	C	PCB-81	(0.77)				
PCB-14	(3.31)		PCB-36	(1.32)		PCB-64	(0.699)		PCB-77	(0.687)				
PCB-11	11.8	B	PCB-39	(1.28)										
PCB-13/12	(3.72)	C	PCB-38	(1.41)										
PCB-15	(3.4)		PCB-35	(1.42)										
			PCB-37	(1.4)										
Conc.	11.8		Conc.	1.59					Conc.	5.4				
EMPC	11.8		EMPC	1.59					EMPC	6.33				
 2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613 Fax: +1 910 794-3919 www.us.sgs.com						Totals			Conc.			EMPC		
						Mono-Tri			13.4			13.4		
						Tetra-Hexa			41.8			50		
						Hepta-Deca			25			36.1		
Mono-Deca			80.1			99.5								

Sample ID: JW-RB-130913						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.784)		PCB-108/119/86/97/125/87	(0.891)	C	PCB-155	(0.577)		PCB-165	(0.604)	
PCB-96	(0.977)		PCB-117	(0.842)		PCB-152	(0.622)		PCB-146	(0.623)	
PCB-103	(0.943)		PCB-116/85	(0.875)	C	PCB-150	(0.624)		PCB-161	(0.545)	
PCB-94	(1.1)		PCB-110	6.07	J B	PCB-136	(0.68)		PCB-153/168	6.39	J B C
PCB-95	2.93	J B	PCB-115	(0.735)		PCB-145	(0.659)		PCB-141	1.32	J
PCB-100/93	(0.989)	C	PCB-82	(1.24)		PCB-148	(0.698)		PCB-130	(0.808)	
PCB-102	(0.835)		PCB-111	(0.738)		PCB-151/135	2.41	J C	PCB-137	(0.651)	
PCB-98	(1.19)		PCB-120	(0.742)		PCB-154	(0.635)		PCB-164	(0.572)	
PCB-88	(1.13)		PCB-107/124	(0.798)	C	PCB-144	(0.702)		PCB-163/138/129	7.5	J B C
PCB-91	(0.894)		PCB-109	(0.737)		PCB-147/149	6.33	J B C	PCB-160	(0.589)	
PCB-84	(1.18)		PCB-123	(0.757)		PCB-134	(0.921)		PCB-158	(0.513)	
PCB-89	(1.11)		PCB-106	(0.831)		PCB-143	(0.768)		PCB-128/166	(0.827)	C
PCB-121	(0.748)		PCB-118	[3.29]	J B EMPC	PCB-139/140	(0.68)	C	PCB-159	(0.7)	
PCB-92	(1.06)		PCB-122	(0.857)		PCB-131	(0.788)		PCB-162	(0.676)	
PCB-113/90/101	[3.97]	J B EMPC C	PCB-114	(0.723)		PCB-142	(0.769)		PCB-167	(0.651)	
PCB-83	(1.2)		PCB-105	1.72	J	PCB-132	1.73	J	PCB-156/157	(1.01)	C
PCB-99	(0.969)		PCB-127	(0.847)		PCB-133	(0.735)		PCB-169	(0.762)	
PCB-112	(0.771)		PCB-126	(0.576)							
			Conc.	10.7					Conc.	25.7	
			EMPC	18					EMPC	25.7	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.597)		PCB-174	[4.04]	J B EMPC	PCB-202	(0.61)		PCB-208	(0.913)	
PCB-179	1.29	J	PCB-177	[1.49]	J EMPC	PCB-201	(0.566)		PCB-207	(0.901)	
PCB-184	(0.677)		PCB-181	(0.857)		PCB-204	(0.603)		PCB-206	(1.29)	
PCB-176	(0.598)		PCB-171/173	(0.976)	C	PCB-197	(0.547)				
PCB-186	(0.647)		PCB-172	(0.946)		PCB-200	(0.591)		Conc.	0	
PCB-178	(0.862)		PCB-192	(0.737)		PCB-198/199	[2.57]	J EMPC C	EMPC	0	
PCB-175	(0.877)		PCB-180/193	8.63	J B C	PCB-196	2.04	J			
PCB-187	4.58	J B	PCB-191	(0.702)		PCB-203	2.38	J	Deca	Conc.	Qualifiers
PCB-182	(0.811)		PCB-170	[3.07]	J B EMPC	PCB-195	(1.12)		PCB-209	1.22	J B
PCB-183	1.88	J	PCB-190	(0.737)		PCB-194	2.94	J			
PCB-185	(0.838)		PCB-189	(0.655)		PCB-205	(0.861)				
			Conc.	16.4		Conc.	7.37				
			EMPC	25		EMPC	9.94				

METHOD 1668A**PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8A**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM4_PCB_07122013_11SEP2013
 Instrument ID: MM4 GC Column ID:
 VER Data Filename: 131014S04 Analysis Date: 14-OCT-2013 15:57:48
 Lab ID: OPR1_11361_PCB-RJ

NATIVE ANALYTES	SPIKE CONC.	RECOVERY	RANGE (%)	OK
PCB-1 2-MoCB	50	91	50 - 150	Y
PCB-3 4-MoCB	50	92.3	50 - 150	Y
PCB-4 22'-DiCB	50	83.1	50 - 150	Y
PCB-15 44'-DiCB	50	84.5	50 - 150	Y
PCB-19 22'6'-TrCB	50	89.8	50 - 150	Y
PCB-37 344'-TrCB	50	92.7	50 - 150	Y
PCB-54 22'66'-TeCB	50	87.5	50 - 150	Y
PCB-77 33'44'-TeCB	50	89.4	50 - 150	Y
PCB-81 344'5'-TeCB	50	91.6	50 - 150	Y
PCB-104 22'466'-PeCB	50	83.5	50 - 150	Y
PCB-105 233'44'-PeCB	50	89.9	50 - 150	Y
PCB-114 2344'5'-PeCB	50	88.7	50 - 150	Y
PCB-118 23'44'5'-PeCB	50	91.9	50 - 150	Y
PCB-123 23'44'5'-PeCB	50	95.8	50 - 150	Y
PCB-126 33'44'5'-PeCB	50	87.6	50 - 150	Y
PCB-155 22'44'66'-HxCB	50	90.1	50 - 150	Y
PCB-156/157 ...-HxCB	100	91.3	50 - 150	Y
PCB-167 23'44'55'-HxCB	50	88.6	50 - 150	Y
PCB-169 33'44'55'-HxCB	50	89.4	50 - 150	Y
PCB-188 22'34'566'-HpCB	50	90.2	50 - 150	Y
PCB-189 233'44'55'-HpCB	50	90.6	50 - 150	Y
PCB-202 22'33'55'66'-OcCB	50	87.3	50 - 150	Y
PCB-205 233'44'55'6-OcCB	50	93.5	50 - 150	Y
PCB-206 22'33'44'55'6-NoCB	50	87.8	50 - 150	Y
PCB-208 22'33'455'66'-NoCB	50	88.1	50 - 150	Y
PCB-209 DeCB	50	88.8	50 - 150	Y

Contract-required recovery limits for OPR as specified in Table 6,
 Method 1668A.

REVIEWED

By Todd Vilen at 9:44 am, Oct 16, 2013

Processed: 15 Oct 2013 11:48

Analyst: JJ

METHOD 1668A**PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8B**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM4_PCB_07122013_11SEP2013
 Instrument ID: MM4 GC Column ID:
 VER Data Filename: 131014S04 Analysis Date: 14-OCT-2013 15:57:48
 Lab ID: OPR1_11361_PCB-RJ

LABELED STANDARDS	SPIKE CONC.	RECOVERY	RANGE (%)	OK
ES PCB-1	100	54.6	30 - 140	Y
ES PCB-3	100	65.8	30 - 140	Y
ES PCB-4	100	75.5	30 - 140	Y
ES PCB-15	100	95	30 - 140	Y
ES PCB-19	100	84.1	30 - 140	Y
ES PCB-37	100	91.1	30 - 140	Y
ES PCB-54	100	80.5	30 - 140	Y
ES PCB-77	100	87.5	30 - 140	Y
ES PCB-81	100	87.2	30 - 140	Y
ES PCB-104	100	99.9	30 - 140	Y
ES PCB-105	100	89.9	30 - 140	Y
ES PCB-114	100	91.1	30 - 140	Y
ES PCB-118	100	91.6	30 - 140	Y
ES PCB-123	100	90.1	30 - 140	Y
ES PCB-126	100	85.8	30 - 140	Y
ES PCB-153	100	94.7	30 - 140	Y
ES PCB-155	100	93.7	30 - 140	Y
ES PCB-156/157	200	84.4	30 - 140	Y
ES PCB-167	100	85.9	30 - 140	Y
ES PCB-169	100	81.8	30 - 140	Y
ES PCB-170	100	89	30 - 140	Y
ES PCB-180	100	96.2	30 - 140	Y
ES PCB-188	100	102	30 - 140	Y
ES PCB-189	100	94	30 - 140	Y
ES PCB-202	100	93.9	30 - 140	Y
ES PCB-205	100	88.4	30 - 140	Y
ES PCB-206	100	93.8	30 - 140	Y
ES PCB-208	100	92.8	30 - 140	Y
ES PCB-209	100	88.2	30 - 140	Y
CLEANUP STANDARDS				
CS PCB-28	100	88	40 - 125	Y
CS PCB-111	100	92.1	40 - 125	Y
CS PCB-178	100	103	40 - 125	Y

Processed: 15 Oct 2013 11:48 Analyst: JJ



Project Initiation Form


Project Number: A5942Initiation Date: 25-Sep-13Client Name: ANCHOR QEASample Matrix: AqueousAnalysis Method: 1668A PCBTAT: 21 daysProject Manager: Amy

Special Instructions

M1668 - OPR

Reporting Instructions

M1668A 209
Equis-Anchor EDDPM Initials: akornegay Date: 25-Sep-2013

		<div style="border: 1px solid black; display: inline-block; padding: 2px;">1668 PCB</div>				<div style="border: 1px solid black; display: inline-block; padding: 2px;">Water</div>					
Project # A5942		Batch # 11361		Extract Init/Date: <u>M 9/27/13</u>		ASPCS Init/Date: <u>MNI 9-28-13</u>		Transfer Init/Date: <u>MNI 9-28-13</u>			
AP Sample ID	Client Sample ID	Volume (mL)	Talex #	SDS #	RV		(Td)	Clean-up	Observations		
					#	Initials					
A5942_11361_001	JW-RB-130913	862	3	-	3	MK	-	MNI	Clear, Clear		
MBI_11361	Method Blank	1000	1	-	1	MK	-	MNI	Talex DI H ₂ O 08052013		
OPR1_11361	0_11361_OPR001	1000	2	-	2	MK	-	MNI	Talex DI H ₂ O 08052013		
Special Instructions:					Cycle Time			Supply IDs			
M1668 - OPR					Start: <u>11:35 AM</u>			Toluene	_____	Acid Silica	_____
					Stop: <u>2:45 PM</u>			CH ₂ CL ₂	_____	Base Silica	_____
								Sand	_____	HydroMatrix	_____
								Florisil	_____	Tetradecane	_____
					Start: _____			Hexane	_____	H ₂ SO ₄	_____
					Stop: _____			Silica	_____	K Silicate	_____



1668 PCB

Aqueous

Project # A5942 Batch # 11361

Inter-Department Communication Sheet

ERAD 16 OCT 13

Special Instructions

M1668 - OPR



1668 PCB

Water

Project # A5942 Batch # 11361

SPIKE PROFILE PCBs

Analyte	Spike Compounds	Spiked Amount	Spiked Volume	Solution Conc.	Split Factor	Final Volume	Final Solvent
PCB	CS	2 ng	20 uL	100 pg/uL	1	20 uL	Nonane
	JS	2 ng	10 uL	200 pg/uL	1	20 uL	Nonane
	AAP68A Batch CS3	1 ng	20 uL	50 pg/uL	1	20 uL	Nonane
	ES	2 ng	20 uL	100 pg/uL	1	20 uL	Nonane

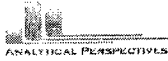
Spiker Initials/Date: *MA 9/27/13* *MA 9/27/13* *MA 9/28/13* *MA 9/28/13*

AP Sample ID	Client Sample ID	PCB ES	PCB AX 209	PCB CS	PCB JS		
		Amount: 20 uL	Amount: 20 uL	Amount: 20 uL	Amount: 20 uL	Amount:	
		Observer Initials	Observer Initials	Observer Initials	Observer Initials	Observer Initials	
A5942_11361_001	JW-RB-130913	<i>ML</i>	—	<i>ML</i>	<i>ML</i>		
MB1_11361	Method Blank	<i>ML</i>	—	<i>ML</i>	<i>ML</i>		
OPR1_11361	0_11361_OPR001	<i>ML</i>	<i>ML</i>	<i>ML</i>	<i>ML</i>		
		<i>9/27/13</i>	<i>9/27/13</i>	<i>9-28-13</i>	<i>9-28-13</i>		

Standard Information

Std. Type	PCB ES	AX 209	PCB CS/SS	PCB JS
Spike ID	<i>07122013A</i>	<i>07122013A</i>	<i>07122013A</i>	<i>07122013A</i>
SIL #	<i>13-39-1</i>	<i>13-39-2</i>	<i>13-39-3</i>	<i>13-39-4</i>
Concentration	100	50	100	200
Units	pg/uL	pg/uL	pg/uL	pg/uL
Exp. Date	<i>7/12/14</i>	<i>7/12/14</i>	<i>7-12-14</i>	<i>7-12-14</i>
Spike amount (uL)	20	20	20	10

TRANSFER: *MA 9/28/13*
MA 9/28/13
 RECEIVED



Sample Receipt Notification

2714 Exchange Drive
Wilmington, NC 28405 USA
Tel: 910 794-1613
Toll Free: 866 846-8290
Fax: 910 794-3919

Project Manager:	Amy Boehm
Receipt Date & Time:	21-Sep-13 at 11:50
AP Project name:	A5942
Requested TAT:	21 days
Projected due date:	14-Oct-13
Matrix:	Aqueous
Phone#:	910-794-1613
Email Address:	Amy.Boehm@sgs.com

Company Contact:	Delaney Peterson
Company:	ANCHOR QEA
Project Name & Site:	Jeld-Wen Former Nord Door Site
Project PO#:	
QAAP/Contract #:	1M → Jeld - Wen
Requested Analysis:	166S PCB
Phone#:	206.903.3396
Email Address:	dpeterson@anchoragea.com

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
JW-RB-130913	A5942_001	water	3	19-Sep-13	14:25	3	1	7967 3968 8205


Preservation Type: Ice - Good Condition **Sample Seals:** No

Notes/Comments:
 Samples received intact 116692 209 (OPR)

Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.

Received by: Barbara Hager

Logged in by: Barbara Hager

QC'ed by: 

Laboratory Number: <u>SGS</u>				Test Parameters													Comments/Preservation							
Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	PCBs (1668)	TOC (PSEP)	TS (PSEP)	Archive																
1	JW-302-130919	9/19/13 9:54	SE	1	X			X																
2	JW-301-130919	9/19/13 9:45	SE	2	X			X																
3	JW-BL-307-130919	9/19/13 11:35	SO	1	X		X																	
4	JW-BL-303-130919	9/19/13 13:40	SO	1	X		X																	
5	JW-BL-305-130919	9/19/13 12:55	SO	1	X		X																	
6	JW-BL-304-130919	9/19/13 13:24	SO	1	X		X																	
7	JW-BL-306-130919	9/19/13 11:55	SO	1	X		X																	
8	JW-RB-130913	9/19/13 14:25	water	3	X																			
9																								
10																								
11																								
12																								
13																								
14																								
15																								

Notes:

Relinquished By:	Company: Anchor QEA, LLC
<i>Cindy Fields</i>	
<i>Cindy Fields</i>	<i>3:37pm</i>
Signature/Printed Name	Date/Time

Received By:	Company: <u>SGS AP</u>
<i>Barbara Hager</i>	
<i>Barbara Hager</i>	<i>21 Sept 13 1150</i>
Signature/Printed Name	Date/Time

Relinquished By:	Company:
Signature/Printed Name	Date/Time

Received By:	Company:
Signature/Printed Name	Date/Time

COPY

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: Anchor QEA Work Order No.: A5942

- | | | |
|-----|---|---|
| 1. | <input checked="" type="checkbox"/> Shipped
<input type="checkbox"/> Hand Delivered | Notes: _____

_____ |
| 2. | <input checked="" type="checkbox"/> COC Present on Receipt
<input type="checkbox"/> No COC
<input type="checkbox"/> Additional Transmittal Forms | _____

_____ |
| 3. | <input type="checkbox"/> Custody Tape on Container
<input checked="" type="checkbox"/> No Custody Tape | _____

_____ |
| 4. | <input checked="" type="checkbox"/> Samples Intact
<input type="checkbox"/> Samples Broken / Leaking | _____

_____ |
| 5. | <input checked="" type="checkbox"/> Chilled on Receipt Actual Temp.(s) in °C: <u>3</u>
<input type="checkbox"/> Ambient on Receipt
<input type="checkbox"/> Walk-in on Ice; Coming down to temp.
<input type="checkbox"/> Temperature Blank Present | Thermometer ID#: <u>Login-1D</u>

no |
| 6. | <input checked="" type="checkbox"/> Sufficient Sample Submitted
<input type="checkbox"/> Insufficient Sample Submitted | _____

_____ |
| 7. | <input type="checkbox"/> Chlorine absent
<input type="checkbox"/> HNO3 < 2
<input type="checkbox"/> HCL < 2
<input type="checkbox"/> Additional Preservatives verified (see notes) | _____

_____ |
| 8. | <input checked="" type="checkbox"/> Received Within Holding Time
<input type="checkbox"/> Not Received Within Holding Time | _____

_____ |
| 9. | <input checked="" type="checkbox"/> No Discrepancies Noted
<input type="checkbox"/> Discrepancies Noted
<input type="checkbox"/> NCDENR notified of Discrepancies* | _____

_____ |
| 10. | <input type="checkbox"/> No Headspace present in VOC vials
<input type="checkbox"/> Headspace present in VOC vials >6mm | _____

_____ |

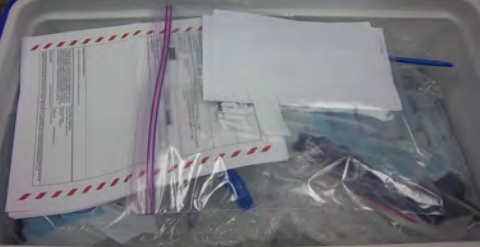
Comments: _____

Inspected and Logged in by: BAH
 Date: Mon-9/23/13 00:00

29 of 391



ESC
30 of 391



31 of 391



32 of 391



Product: QALIC South WA
Product Name: 400-2000 Farmer New-Drop 400
Lot No: 1000001 21
Date: 2015
Sample Name: 200- QALIC - 1 1/2 L
Volume: 20.0g

33 of 391

A5942_001

JW-RB-130913

1 of 3

water

SLoc: F-2

Project Name: JWB

Project No: 120909-01.01

Date: 9/19/13

Sample Name: JW-

RB-130913
1 of 3

Analysis: RB

Responsible: 0000

SGS Analytical Perspectives — Run Log

Project: A5942_11361_PCB

Instrument: MM4 (AutoSpec-Ultima)

MS Experiment: pcb-2011-08

GC Program: pcb90_FI

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
3	131014S03	4	CS3_131014_PCB_SC	1.00	SIL 13-40-1 ✓	CTW, JLJ	999-560	14-Oct-2013	15:04:31
4	131014S04	39	OPR1_11361_PCB-RJ	1.00	0_11361_OPR001	CTW, JLJ	466-088	14-Oct-2013	15:57:48
6	131014S06	12	SBS_131014_PCB_SB	1.00	SIL9-41-1	CTW, JLJ	812-123	14-Oct-2013	17:50:05
7	131014S07	40	MB1_11361_PCB_TLX-RJ	1.00	Method Blank ✓	CTW, JLJ	016-783	14-Oct-2013	18:46:09
8	131014S08	41	A5942_11361_PCB_001-RJ	0.86	JW-RB-130913 ✓	CTW, JLJ	074-145	14-Oct-2013	19:42:16

REVIEWED*By Jerry Jones at 12:04 pm, Oct 15, 2013***REVIEWED***By Todd Vilen at 9:51 am, Oct 16, 2013*

Lab ID: MB1_11361_PCB_TLX-RJ

ACQ: 14-Oct-2013 18:46:09 CTW

Wt/Vol: 1.00 L

ICAL: MM4_PCB_07122013_11SEP2013 CS3_131014_PCB_SC

Client ID: Method Blank A5942

UTP: 15-Oct-2013 11:40 JLJ

J-level: 10 pg/L Split: 1

Checkcode: 016-783-WJF

Datafile: 131014S07

RPT: 15-Oct-2013 11:48 JJ

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method HR-PCB

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	NotFnd		1.0006	-		0.00E+00		1.51	ND	2.64E+03	0.335
PCB-81 344'5'-TeCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	2.64E+03	0.368
PCB-105 233'44'-PeCB	NotFnd		1.0007	-		0.00E+00		1.00	ND	1.77E+03	0.388
PCB-114 2344'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.06	ND	1.77E+03	0.333
PCB-118 23'44'5'-PeCB	31.28	J EMPC	1.0008	1.0007	-0.2	2.34E+04	0.92	1.01	0.477	1.77E+03	0.35
PCB-123 23'44'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.06	ND	1.77E+03	0.342
PCB-126 33'44'5'-PeCB	NotFnd		1.0006	-		0.00E+00		1.26	ND	1.72E+03	0.283
PCB-156/157 ...-HxCB	NotFnd	C	1.0006	-		0.00E+00		1.06	ND	1.25E+03	0.432
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.12	ND	1.25E+03	0.26
PCB-169 33'44'55'-HxCB	NotFnd		1.0005	-		0.00E+00		1.09	ND	1.25E+03	0.31
PCB-189 233'44'55'-HpCB	NotFnd		1.0005	-		0.00E+00		1.15	ND	1.34E+03	0.264
PCB-209 DeCB	47.23	J	1.0004	1.0005	+0.3	2.49E+04	1.14	1.03	0.874	9.51E+02	0.351
ES PCB-1	9.89		0.7193	0.7193	0	1.12E+08	3.20	1.04	67.2 %	25%	150%
ES PCB-3	11.81		0.8589	0.8589	0	1.20E+08	3.22	0.99	75.6 %	25%	150%
ES PCB-4	12.02		0.8744	0.8743	-0.1	9.45E+07	1.54	0.71	83.1 %	25%	150%
ES PCB-15	17.12		1.2450	1.2453	+0.3	1.67E+08	1.62	1.09	95.9 %	25%	150%
ES PCB-19	14.72		1.0707	1.0707	0	8.23E+07	1.03	0.59	87 %	25%	150%
ES PCB-37	23.11		1.0869	1.0870	+0.1	1.33E+08	1.09	1.32	90.2 %	25%	150%
ES PCB-54	17.36		0.8170	0.8167	-0.3	1.38E+08	0.78	1.35	91 %	25%	150%
ES PCB-77	29.30		1.3776	1.3782	+1.1	1.03E+08	0.83	1.07	86.2 %	25%	150%
ES PCB-81	28.83		1.3554	1.3559	+0.9	1.14E+08	0.83	1.19	85.4 %	25%	150%
ES PCB-104	22.06		0.8151	0.8148	-0.4	1.40E+08	1.57	1.62	108 %	25%	150%
ES PCB-105	32.24		1.1911	1.1913	+0.4	9.42E+07	1.54	1.30	90.3 %	25%	150%
ES PCB-114	31.70		1.1710	1.1712	+0.4	9.73E+07	1.57	1.32	92.1 %	25%	150%
ES PCB-118	31.25		1.1545	1.1547	+0.4	9.69E+07	1.57	1.30	92.7 %	25%	150%
ES PCB-123	30.98		1.1444	1.1446	+0.4	9.36E+07	1.59	1.26	92.6 %	25%	150%
ES PCB-126	34.85		1.2873	1.2877	+0.8	9.69E+07	1.66	1.41	85.9 %	25%	150%
ES PCB-153	32.83		0.9691	0.9691	0	8.64E+07	1.26	1.15	95.4 %	25%	150%
ES PCB-155	26.87		0.7933	0.7931	-0.3	1.17E+08	1.28	1.53	96.2 %	25%	150%
ES PCB-156/157	37.39		1.1035	1.1036	+0.2	1.60E+08	1.26	1.19	84.9 %	25%	150%
ES PCB-167	36.42		1.0749	1.0749	0	8.42E+07	1.25	1.22	86.7 %	25%	150%
ES PCB-169	40.11		1.1838	1.1840	+0.5	7.72E+07	1.26	1.18	82.3 %	25%	150%
ES PCB-170	39.61		0.9003	0.9002	-0.2	6.64E+07	1.06	1.22	92.4 %	25%	150%
ES PCB-180	38.56		0.8763	0.8762	-0.2	7.59E+07	1.05	1.41	95 %	25%	150%
ES PCB-188	31.69		0.7204	0.7202	-0.4	1.47E+08	1.07	1.71	109 %	25%	150%
ES PCB-189	42.24		0.9599	0.9599	0	8.80E+07	1.08	1.84	90.7 %	25%	150%
ES PCB-202	36.22		0.8231	0.8230	-0.2	1.12E+08	0.89	1.42	99.8 %	25%	150%
ES PCB-205	44.40		1.0090	1.0090	0	5.86E+07	0.91	1.25	88.6 %	25%	150%
ES PCB-206	45.86		1.0422	1.0422	0	6.09E+07	0.76	1.24	93.4 %	25%	150%
ES PCB-208	41.83		0.9507	0.9506	-0.3	6.90E+07	0.77	1.42	92.2 %	25%	150%
ES PCB-209	47.21		1.0727	1.0728	+0.3	5.51E+07	1.18	1.23	84.8 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	19.70		0.9269	0.9268	-0.1	1.42E+08	1.08	1.06	100 %	30%	135%
SS PCB-111	29.34		1.0838	1.0839	+0.2	9.85E+07	1.58	1.06	99.2 %	30%	135%
SS PCB-178	34.27		1.0114	1.0115	+0.2	8.41E+07	1.06	0.58	98.2 %	30%	135%
CS PCB-28	19.70		0.9269	0.9268	-0.1	1.42E+08	1.08	1.40	90.3 %	30%	135%
CS PCB-111	29.34		1.0838	1.0839	+0.2	9.85E+07	1.58	1.34	91.9 %	30%	135%
CS PCB-178	34.27		1.0114	1.0115	+0.2	8.41E+07	1.06	0.99	107 %	30%	135%
JS PCB-9	13.75					1.60E+08	1.65				
JS PCB-52	21.26					1.12E+08	0.76				
JS PCB-101	27.07					8.02E+07	1.58				
JS PCB-138	33.88					7.93E+07	1.25				
JS PCB-194	44.00					5.27E+07	0.92				
			Totals			NON-EMPC		EMPC		DL	
			Mono-CBs			3.96		3.96		0.261	
			Di-CBs			33.5		33.5		0.727	
			Tri-CBs			6.42		7.42		0.579	
			Tetra-CBs			24.6		26.4		0.396	
			Penta-CBs			1.85		3.29		0.318	
			Hexa-CBs			2.53		3.86		0.306	
			Hepta-CBs			2.31		3.51		0.351	
			Octa-CBs			0		0		0.373	
			Nona-CBs			0		0		0.563	
PCB-1 2-MoCB	9.90	J	1.0011	1.0012	+0.1	9.50E+04	2.93	1.20	1.42	3.36E+03	0.243
PCB-2 3-MoCB	11.66	J	0.9877	0.9879	+0.1	7.91E+04	3.24	1.28	1.03	3.36E+03	0.27
PCB-3 4-MoCB	11.82	J	1.0010	1.0010	0	1.12E+05	3.42	1.24	1.51	3.36E+03	0.279
PCB-4 22'-DiCB	NotFnd		1.0012	-		0.00E+00		0.97	ND	6.77E+03	0.944
PCB-10 26'-DiCB	NotFnd		1.0138	-		0.00E+00		1.40	ND	6.77E+03	0.656
PCB-9 25'-DiCB	NotFnd		1.0011	-		0.00E+00		1.02	ND	6.13E+03	0.611
PCB-7 24'-DiCB	NotFnd		1.0114	-		0.00E+00		1.17	ND	6.13E+03	0.534
PCB-6 23'-DiCB	NotFnd		1.0264	-		0.00E+00		1.08	ND	6.13E+03	0.58
PCB-5 23'-DiCB	NotFnd		1.0455	-		0.00E+00		1.09	ND	6.13E+03	0.572
PCB-8 24'-DiCB	14.48	J	1.0535	1.0536	+0.1	1.09E+05	SI	1.11	1.17	6.13E+03	0.564
PCB-14 35'-DiCB	NotFnd		0.9280	-		0.00E+00		1.26	ND	6.13E+03	0.496
PCB-11 33'-DiCB	16.60		0.9699	0.9699	0	2.91E+06	1.57	1.10	31.8	6.13E+03	0.572
PCB-13/12 34'/34'-DiCB	NotFnd	C	0.9853	-		0.00E+00		1.12	ND	6.13E+03	0.557
PCB-15 44'-DiCB	17.13	J	1.0008	1.0009	+0.1	6.31E+04	SI	1.23	0.614	6.13E+03	0.509
PCB-19 22'6-TrCB	NotFnd		1.0011	-		0.00E+00		0.97	ND	3.78E+03	0.707
PCB-30/18 246/22'5-TrCB	16.35	J C	1.1091	1.1105	+1.4	6.18E+04	1.03	1.24	1.21	3.78E+03	0.55
PCB-17 22'4-TrCB	NotFnd		1.1342	-		0.00E+00		1.09	ND	3.78E+03	0.625
PCB-27 23'6-TrCB	NotFnd		1.1467	-		0.00E+00		1.46	ND	3.78E+03	0.468
PCB-24 236-TrCB	NotFnd		1.1543	-		0.00E+00		1.39	ND	3.78E+03	0.491
PCB-16 22'3-TrCB	NotFnd		1.1606	-		0.00E+00		0.88	ND	3.78E+03	0.781

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	NotFnd		1.1909	-		0.00E+00		1.55	ND	3.78E+03	0.441
PCB-34 23'5'-TrCB	NotFnd		0.8058	-		0.00E+00		1.29	ND	4.00E+03	0.45
PCB-23 235-TrCB	NotFnd		0.8114	-		0.00E+00		1.32	ND	4.00E+03	0.439
PCB-26/29 23'5'/245-TrCB	NotFnd	C	0.8232	-		0.00E+00		1.34	ND	4.00E+03	0.434
PCB-25 23'4-TrCB	NotFnd		0.8313	-		0.00E+00		1.34	ND	4.00E+03	0.434
PCB-31 24'5-TrCB	19.47	J	0.8428	0.8427	-0.1	1.07E+05	1.12	1.38	1.16	4.00E+03	0.42
PCB-28/20 244'/233'-TrCB	19.72	J C	0.8542	0.8535	-0.8	1.38E+05	1.02	1.32	1.57	4.00E+03	0.439
PCB-21/33 234/23'4'-TrCB	19.91	J C	0.8613	0.8615	+0.2	1.20E+05	0.95	1.35	1.33	4.00E+03	0.428
PCB-22 234'-TrCB	20.26	J EMPC	0.8769	0.8768	-0.1	4.30E+04	1.42	1.25	0.519	4.00E+03	0.466
PCB-36 33'5-TrCB	NotFnd		0.9344	-		0.00E+00		1.36	ND	4.00E+03	0.426
PCB-39 34'5-TrCB	NotFnd		0.9476	-		0.00E+00		1.40	ND	4.00E+03	0.414
PCB-38 345-TrCB	NotFnd		0.9688	-		0.00E+00		1.27	ND	4.00E+03	0.456
PCB-35 33'4-TrCB	22.79	J	0.9858	0.9861	+0.4	9.76E+04	0.99	1.27	1.16	4.00E+03	0.458
PCB-37 344'-TrCB	23.13	J EMPC	1.0008	1.0010	+0.3	4.05E+04	1.25	1.28	0.474	4.00E+03	0.452
PCB-54 22'66'-TeCB	NotFnd		1.0011	-		0.00E+00		1.00	ND	2.45E+03	0.306
PCB-50/53 22'46/22'56'-TeCB	NotFnd	C	0.9053	-		0.00E+00		0.87	ND	2.29E+03	0.469
PCB-45 22'36-TeCB	NotFnd		0.9313	-		0.00E+00		0.77	ND	2.29E+03	0.527
PCB-51 22'46'-TeCB	19.86		0.9345	0.9344	-0.1	6.83E+05	0.74	0.87	13.8	2.29E+03	0.467
PCB-46 22'36'-TeCB	NotFnd		0.9439	-		0.00E+00		0.71	ND	2.29E+03	0.568
PCB-52 22'55'-TeCB	21.28	J EMPC	1.0010	1.0011	+0.1	5.76E+04	0.66	0.80	1.26	2.29E+03	0.505
PCB-73 23'5'6-TeCB	NotFnd		1.0068	-		0.00E+00		1.14	ND	2.29E+03	0.355
PCB-43 22'35-TeCB	NotFnd		1.0106	-		0.00E+00		0.65	ND	2.29E+03	0.628
PCB-69/49 23'46/22'45'-TeCB	21.69	J C	1.0193	1.0204	+1.4	3.97E+04	0.83	0.99	0.701	2.29E+03	0.408
PCB-48 22'45-TeCB	NotFnd		1.0317	-		0.00E+00		0.82	ND	2.29E+03	0.494
PCB-44/47/65 ...-TeCB	22.14	J C	1.0414	1.0416	+0.3	1.04E+05	0.81	0.87	2.11	2.29E+03	0.466
PCB-59/62/75 ...-TeCB	NotFnd	C	1.0537	-		0.00E+00		1.11	ND	2.29E+03	0.365
PCB-42 22'34'-TeCB	NotFnd		1.0615	-		0.00E+00		0.74	ND	2.29E+03	0.545
PCB-41 22'34-TeCB	NotFnd		1.0763	-		0.00E+00		0.72	ND	2.29E+03	0.56
PCB-71/40 23'4'6/22'33'-TeCB	NotFnd	C	1.0811	-		0.00E+00		0.81	ND	2.29E+03	0.498
PCB-64 234'6-TeCB	NotFnd		1.0900	-		0.00E+00		1.20	ND	2.29E+03	0.339
PCB-72 23'55'-TeCB	NotFnd		0.8291	-		0.00E+00		1.33	ND	2.64E+03	0.352
PCB-68 23'45'-TeCB	24.14	J	0.8375	0.8374	-0.1	5.52E+05	0.75	1.44	6.75	2.64E+03	0.325
PCB-57 233'5-TeCB	NotFnd		0.8498	-		0.00E+00		1.27	ND	2.64E+03	0.367
PCB-58 233'5'-TeCB	NotFnd		0.8567	-		0.00E+00		1.32	ND	2.64E+03	0.353
PCB-67 23'45-TeCB	NotFnd		0.8617	-		0.00E+00		1.38	ND	2.64E+03	0.338
PCB-63 234'5-TeCB	NotFnd		0.8694	-		0.00E+00		1.44	ND	2.64E+03	0.324
PCB-61/70/74/76 ...-TeCB	25.35	J C	0.8790	0.8795	+0.8	9.25E+04	0.83	1.31	1.24	2.64E+03	0.358
PCB-66 23'44'-TeCB	25.61	J EMPC	0.8887	0.8886	-0.2	3.69E+04	0.65	1.27	0.51	2.64E+03	0.368
PCB-55 233'4-TeCB	NotFnd		0.8935	-		0.00E+00		1.27	ND	2.64E+03	0.367
PCB-56 233'4'-TeCB	NotFnd		0.9084	-		0.00E+00		1.23	ND	2.64E+03	0.382
PCB-60 2344'-TeCB	NotFnd		0.9146	-		0.00E+00		1.28	ND	2.64E+03	0.364
PCB-80 33'55'-TeCB	NotFnd		0.9269	-		0.00E+00		1.45	ND	2.64E+03	0.323
PCB-79 33'45'-TeCB	NotFnd		0.9715	-		0.00E+00		1.47	ND	2.64E+03	0.319
PCB-78 33'45-TeCB	NotFnd		0.9877	-		0.00E+00		1.23	ND	2.64E+03	0.379
PCB-104 22'466'-PeCB	NotFnd		1.0010	-		0.00E+00		1.06	ND	1.62E+03	0.211
PCB-96 22'366'-PeCB	NotFnd		1.0151	-		0.00E+00		0.85	ND	1.62E+03	0.263
PCB-103 22'45'6-PeCB	NotFnd		0.8883	-		0.00E+00		0.85	ND	1.77E+03	0.426
PCB-94 22'356'-PeCB	NotFnd		0.8951	-		0.00E+00		0.73	ND	1.77E+03	0.496

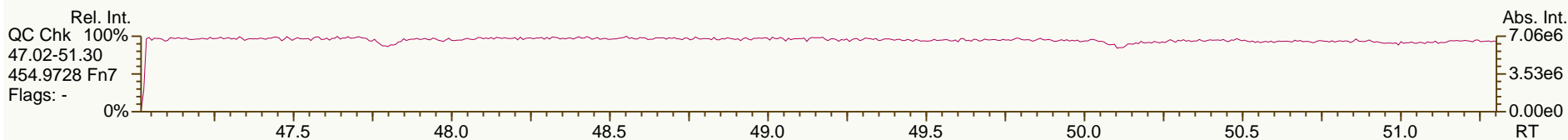
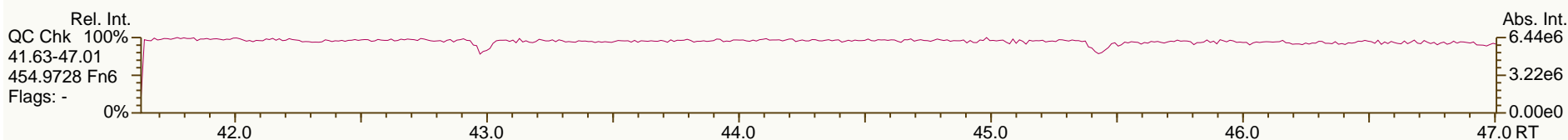
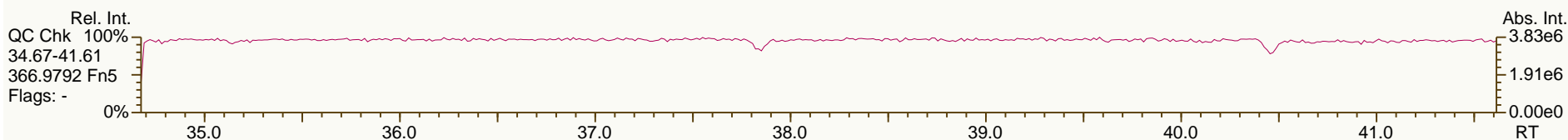
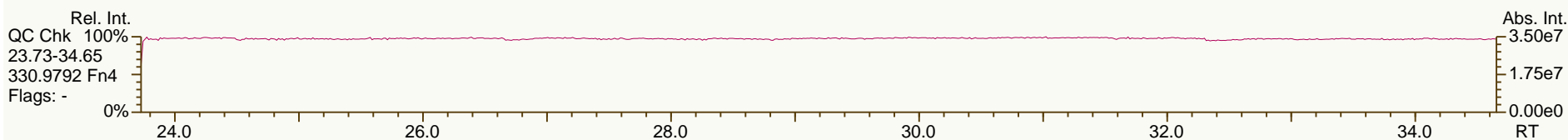
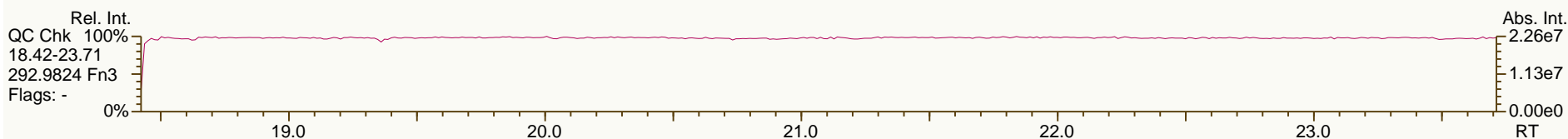
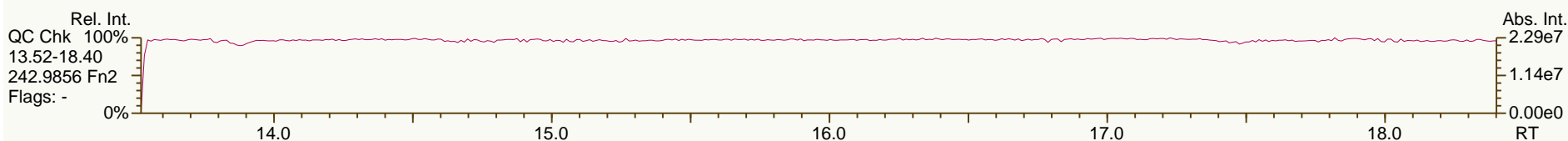
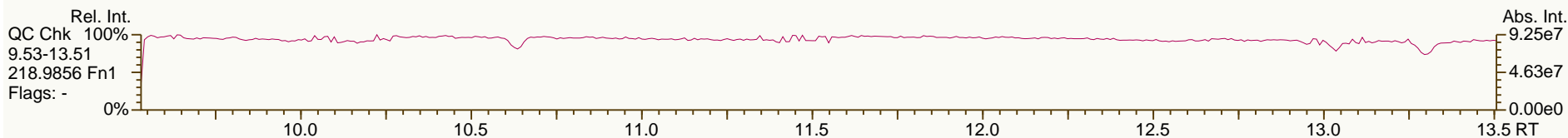
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	24.60	J	0.9090	0.9088	-0.3	3.38E+04	0.65	0.79	0.91	1.77E+03	0.457
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9159	-		0.00E+00		0.81	ND	1.77E+03	0.447
PCB-102 22'456'-PeCB	NotFnd		0.9203	-		0.00E+00		0.96	ND	1.77E+03	0.377
PCB-98 22'34'6'-PeCB	NotFnd		0.9226	-		0.00E+00		0.67	ND	1.77E+03	0.539
PCB-88 22'346-PeCB	NotFnd		0.9329	-		0.00E+00		0.71	ND	1.77E+03	0.512
PCB-91 22'34'6-PeCB	NotFnd		0.9358	-		0.00E+00		0.90	ND	1.77E+03	0.404
PCB-84 22'33'6-PeCB	NotFnd		0.9427	-		0.00E+00		0.68	ND	1.77E+03	0.532
PCB-89 22'346'-PeCB	NotFnd		0.9576	-		0.00E+00		0.73	ND	1.77E+03	0.499
PCB-121 23'45'6-PeCB	NotFnd		0.9710	-		0.00E+00		1.07	ND	1.77E+03	0.338
PCB-92 22'355'-PeCB	NotFnd		0.9826	-		0.00E+00		0.76	ND	1.77E+03	0.479
PCB-113/90/101 ...-PeCB	27.09	J EMPC C	1.0000	1.0008	+1.3	3.92E+04	0.81	0.87	0.958	1.77E+03	0.415
PCB-83 22'33'5-PeCB	NotFnd		1.0155	-		0.00E+00		0.67	ND	1.77E+03	0.542
PCB-99 22'44'5-PeCB	NotFnd		1.0188	-		0.00E+00		0.83	ND	1.77E+03	0.438
PCB-112 233'56-PeCB	NotFnd		1.0225	-		0.00E+00		1.04	ND	1.77E+03	0.348
PCB-108/119/86/97/125...-PeCB	NotFnd	C	1.0349	-		0.00E+00		0.90	ND	1.77E+03	0.403
PCB-117 234'56-PeCB	NotFnd		1.0541	-		0.00E+00		0.95	ND	1.77E+03	0.38
PCB-116/85 23456/22'344'-PeCB	NotFnd	C	1.0568	-		0.00E+00		0.92	ND	1.77E+03	0.395
PCB-110 233'4'6-PeCB	28.75	J	1.0620	1.0623	+0.5	4.17E+04	0.56	0.95	0.941	1.77E+03	0.383
PCB-115 2344'6-PeCB	NotFnd		1.0645	-		0.00E+00		1.09	ND	1.77E+03	0.332
PCB-82 22'33'4-PeCB	NotFnd		1.0719	-		0.00E+00		0.65	ND	1.77E+03	0.559
PCB-111 233'55'-PeCB	NotFnd		1.0846	-		0.00E+00		1.09	ND	1.77E+03	0.333
PCB-120 23'455'-PeCB	NotFnd		1.0989	-		0.00E+00		1.08	ND	1.77E+03	0.335
PCB-107/124 ...-PeCB	NotFnd	C	0.9909	-		0.00E+00		1.01	ND	1.77E+03	0.36
PCB-109 233'46-PeCB	NotFnd		0.9974	-		0.00E+00		1.09	ND	1.77E+03	0.333
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		0.97	ND	1.77E+03	0.375
PCB-122 233'4'5'-PeCB	NotFnd		1.0099	-		0.00E+00		0.89	ND	1.77E+03	0.395
PCB-127 33'455'-PeCB	NotFnd		1.0394	-		0.00E+00		0.93	ND	1.77E+03	0.417
PCB-155 22'44'66'-HxCB	NotFnd		1.0008	-		0.00E+00		1.12	ND	1.56E+03	0.223
PCB-152 22'3566'-HxCB	NotFnd		1.0068	-		0.00E+00		1.04	ND	1.56E+03	0.24
PCB-150 22'34'66'-HxCB	NotFnd		1.0121	-		0.00E+00		1.04	ND	1.56E+03	0.241
PCB-136 22'33'66'-HxCB	NotFnd		1.0233	-		0.00E+00		0.95	ND	1.56E+03	0.262
PCB-145 22'3466'-HxCB	NotFnd		1.0327	-		0.00E+00		0.98	ND	1.56E+03	0.254
PCB-148 22'34'56'-HxCB	NotFnd		1.0804	-		0.00E+00		1.02	ND	1.56E+03	0.35
PCB-151/135 ...-HxCB	NotFnd	C	1.0996	-		0.00E+00		0.99	ND	1.56E+03	0.362
PCB-154 22'44'56'-HxCB	NotFnd		1.1069	-		0.00E+00		1.12	ND	1.56E+03	0.318
PCB-144 22'345'6-HxCB	NotFnd		1.1166	-		0.00E+00		1.02	ND	1.56E+03	0.352
PCB-147/149 ...-HxCB	30.31	J C	1.1278	1.1280	+0.4	4.95E+04	1.43	1.04	1.11	1.56E+03	0.345
PCB-134 22'33'56-HxCB	NotFnd		1.1341	-		0.00E+00		0.77	ND	1.56E+03	0.462
PCB-143 22'3456'-HxCB	NotFnd		1.1370	-		0.00E+00		0.93	ND	1.56E+03	0.385
PCB-139/140 ...-HxCB	NotFnd	C	1.1465	-		0.00E+00		1.05	ND	1.56E+03	0.341
PCB-131 22'33'46-HxCB	NotFnd		1.1527	-		0.00E+00		0.91	ND	1.56E+03	0.395
PCB-142 22'3456-HxCB	NotFnd		1.1575	-		0.00E+00		0.93	ND	1.56E+03	0.386
PCB-132 22'33'46'-HxCB	NotFnd		1.1670	-		0.00E+00		0.93	ND	1.56E+03	0.383
PCB-133 22'33'55'-HxCB	NotFnd		1.1831	-		0.00E+00		0.97	ND	1.56E+03	0.369
PCB-165 233'55'6-HxCB	NotFnd		0.9485	-		0.00E+00		1.18	ND	1.56E+03	0.303
PCB-146 22'34'55'-HxCB	NotFnd		0.9546	-		0.00E+00		1.15	ND	1.56E+03	0.312
PCB-161 233'45'6-HxCB	NotFnd		0.9579	-		0.00E+00		1.31	ND	1.56E+03	0.273
PCB-153/168 ...-HxCB	32.85	J EMPC C	0.9704	0.9698	-1.2	7.20E+04	1.48	1.26	1.33	1.56E+03	0.285

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	NotFnd		0.9746	-		0.00E+00		1.01	ND	1.56E+03	0.355
PCB-130 22'33'45'-HxCB	NotFnd		0.9847	-		0.00E+00		0.88	ND	1.56E+03	0.406
PCB-137 22'344'5'-HxCB	NotFnd		0.9903	-		0.00E+00		1.09	ND	1.56E+03	0.327
PCB-164 233'4'5'6'-HxCB	NotFnd		0.9931	-		0.00E+00		1.25	ND	1.56E+03	0.287
PCB-163/138/129 ...-HxCB	33.90	J C	1.0013	1.0006	-1.4	6.61E+04	1.19	1.07	1.43	1.56E+03	0.334
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.21	ND	1.56E+03	0.296
PCB-158 233'44'6'-HxCB	NotFnd		1.0104	-		0.00E+00		1.39	ND	1.56E+03	0.257
PCB-128/166 ...-HxCB	NotFnd	C	0.9598	-		0.00E+00		0.88	ND	1.25E+03	0.33
PCB-159 233'455'-HxCB	NotFnd		0.9830	-		0.00E+00		1.04	ND	1.25E+03	0.279
PCB-162 233'4'55'-HxCB	NotFnd		0.9897	-		0.00E+00		1.08	ND	1.25E+03	0.269
PCB-188 22'34'566'-HpCB	NotFnd		1.0007	-		0.00E+00		0.97	ND	1.60E+03	0.223
PCB-179 22'33'566'-HpCB	NotFnd		1.0096	-		0.00E+00		0.88	ND	1.60E+03	0.245
PCB-184 22'344'66'-HpCB	NotFnd		1.0236	-		0.00E+00		0.85	ND	1.60E+03	0.253
PCB-176 22'33'466'-HpCB	NotFnd		1.0330	-		0.00E+00		0.97	ND	1.60E+03	0.224
PCB-186 22'34566'-HpCB	NotFnd		1.0450	-		0.00E+00		0.89	ND	1.60E+03	0.242
PCB-178 22'33'55'6'-HpCB	NotFnd		1.0818	-		0.00E+00		0.67	ND	1.60E+03	0.323
PCB-175 22'33'45'6'-HpCB	NotFnd		1.0986	-		0.00E+00		0.97	ND	1.68E+03	0.44
PCB-187 22'34'55'6'-HpCB	35.06	J	1.1058	1.1062	+0.8	3.27E+04	1.09	1.02	0.845	1.68E+03	0.42
PCB-182 22'344'56'-HpCB	NotFnd		1.1112	-		0.00E+00		1.05	ND	1.68E+03	0.407
PCB-183 22'344'5'6'-HpCB	NotFnd		1.1219	-		0.00E+00		1.03	ND	1.68E+03	0.416
PCB-185 22'3455'6'-HpCB	NotFnd		1.1245	-		0.00E+00		1.02	ND	1.68E+03	0.421
PCB-174 22'33'456'-HpCB	35.78	J EMPC	1.1283	1.1288	+1.1	1.88E+04	1.77	0.87	0.567	1.68E+03	0.491
PCB-177 22'33'45'6'-HpCB	NotFnd		1.1398	-		0.00E+00		0.87	ND	1.68E+03	0.491
PCB-181 22'344'56'-HpCB	NotFnd		1.1503	-		0.00E+00		1.00	ND	1.68E+03	0.43
PCB-171/173 ...-HpCB	NotFnd	C	1.1561	-		0.00E+00		0.88	ND	1.68E+03	0.49
PCB-172 22'33'455'-HpCB	NotFnd		0.9004	-		0.00E+00		0.90	ND	1.68E+03	0.475
PCB-192 233'455'6'-HpCB	NotFnd		0.9060	-		0.00E+00		1.16	ND	1.68E+03	0.37
PCB-180/193 ...-HpCB	38.57	J C	0.9127	0.9133	+1.4	6.11E+04	1.00	1.10	1.46	1.68E+03	0.39
PCB-191 233'44'5'6'-HpCB	NotFnd		0.9203	-		0.00E+00		1.22	ND	1.68E+03	0.353
PCB-170 22'33'44'5'-HpCB	39.64	J EMPC	0.9383	0.9384	+0.2	2.06E+04	1.70	0.99	0.63	1.68E+03	0.513
PCB-190 233'44'56-HpCB	NotFnd		0.9488	-		0.00E+00		1.35	ND	1.68E+03	0.373
PCB-202 22'33'55'66'-OoCB	NotFnd		1.0006	-		0.00E+00		0.83	ND	1.61E+03	0.35
PCB-201 22'33'45'66'-OoCB	NotFnd		1.0220	-		0.00E+00		0.90	ND	1.61E+03	0.325
PCB-204 22'344'566'-OoCB	NotFnd		1.0376	-		0.00E+00		0.84	ND	1.61E+03	0.346
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0429	-		0.00E+00		0.93	ND	1.61E+03	0.314
PCB-200 22'33'4566'-OoCB	NotFnd		1.0453	-		0.00E+00		0.86	ND	1.61E+03	0.339
PCB-198/199 ...-OoCB	NotFnd	C	1.1101	-		0.00E+00		0.65	ND	1.61E+03	0.445
PCB-196 22'33'44'56'-OoCB	NotFnd		1.1258	-		0.00E+00		0.67	ND	1.61E+03	0.434
PCB-203 22'344'55'6'-OoCB	NotFnd		1.1303	-		0.00E+00		0.69	ND	1.61E+03	0.424
PCB-195 22'33'44'56-OoCB	NotFnd		0.9472	-		0.00E+00		0.83	ND	1.21E+03	0.513
PCB-194 22'33'44'55'-OoCB	NotFnd		0.9915	-		0.00E+00		0.89	ND	1.21E+03	0.48
PCB-205 233'44'55'6'-OoCB	NotFnd		1.0004	-		0.00E+00		1.08	ND	1.21E+03	0.395
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		0.99	ND	1.58E+03	0.488
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0191	-		0.00E+00		1.01	ND	1.58E+03	0.481
PCB-206 22'33'44'55'6'-NoCB	NotFnd		1.0004	-		0.00E+00		0.83	ND	1.58E+03	0.639

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Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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User: CTW Datafile: 131014S07



SGS-AP ID: MB1_11361_PCB_TLX-RJ

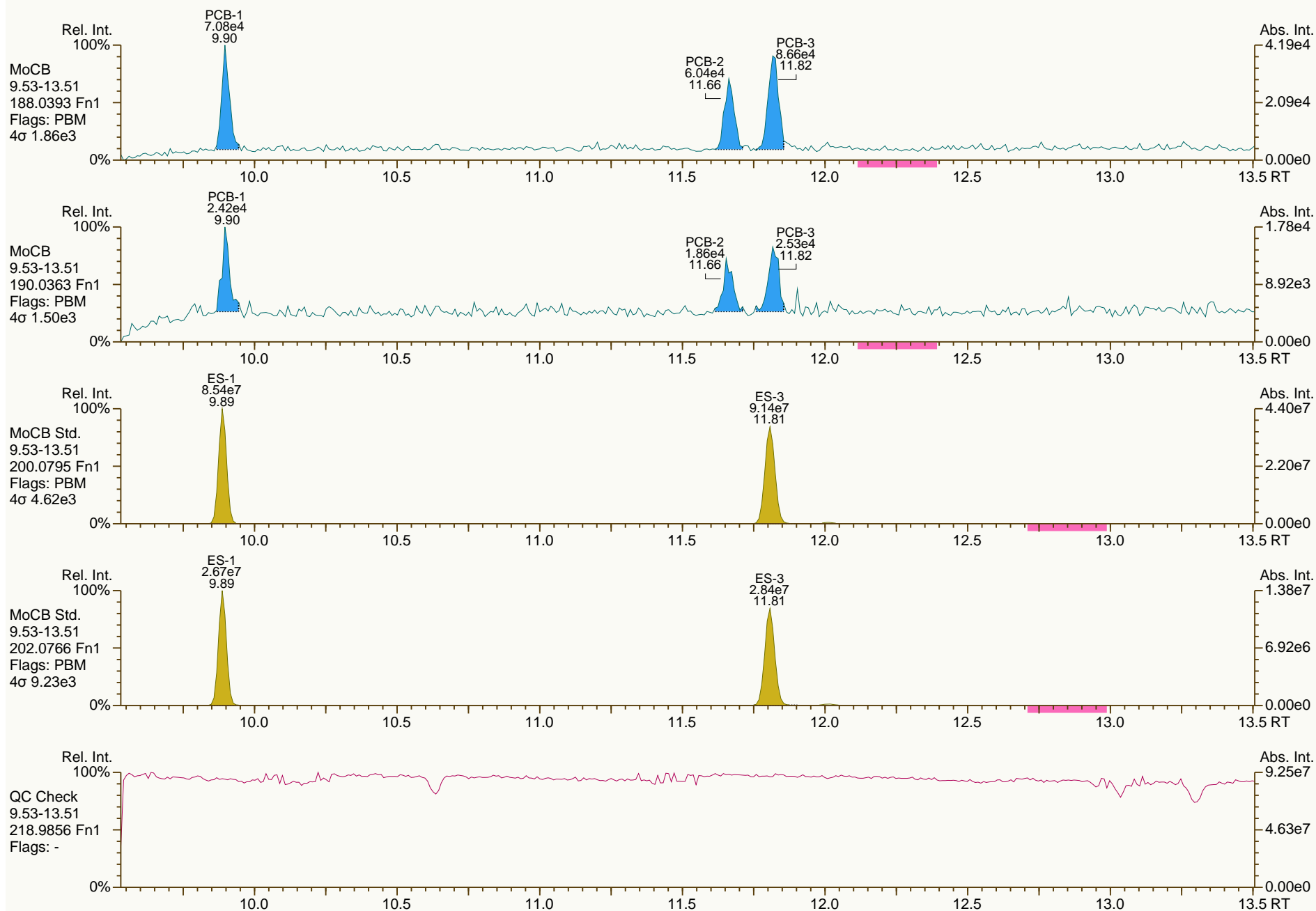
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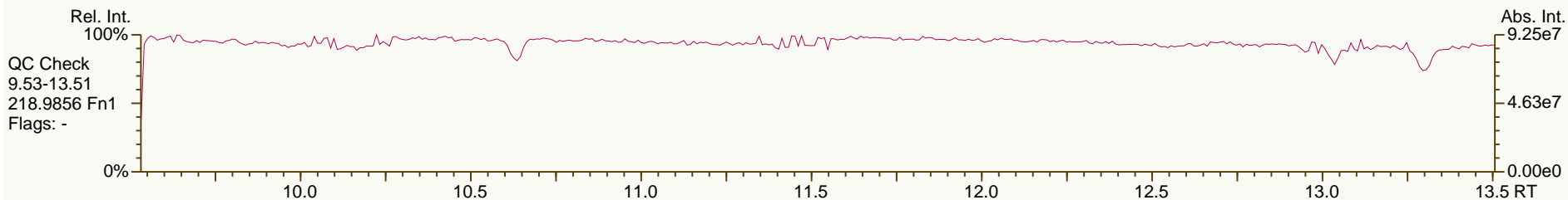
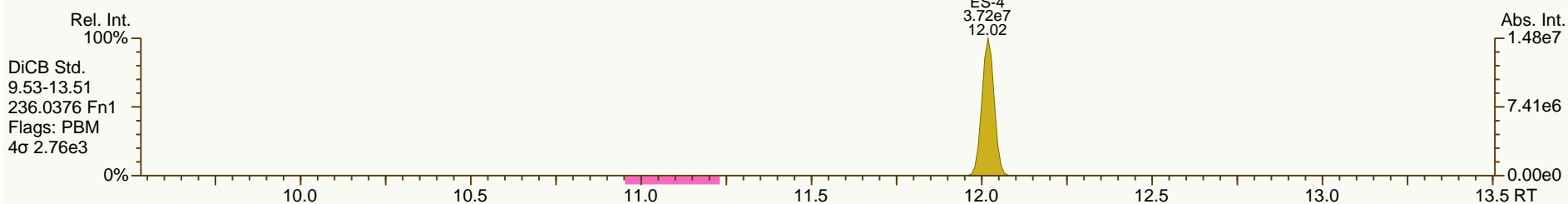
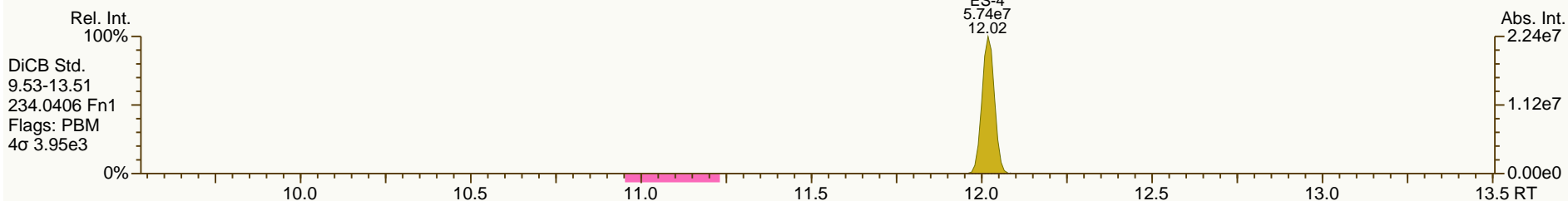
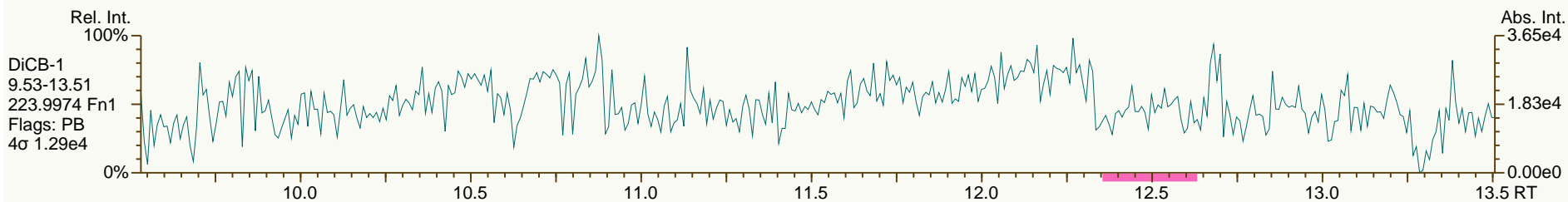
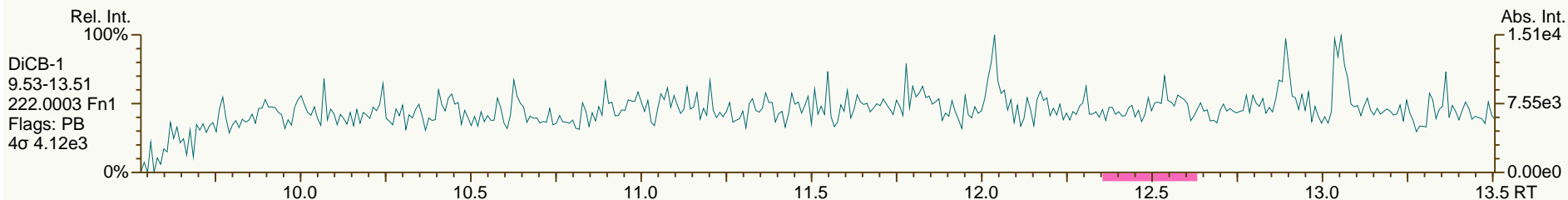
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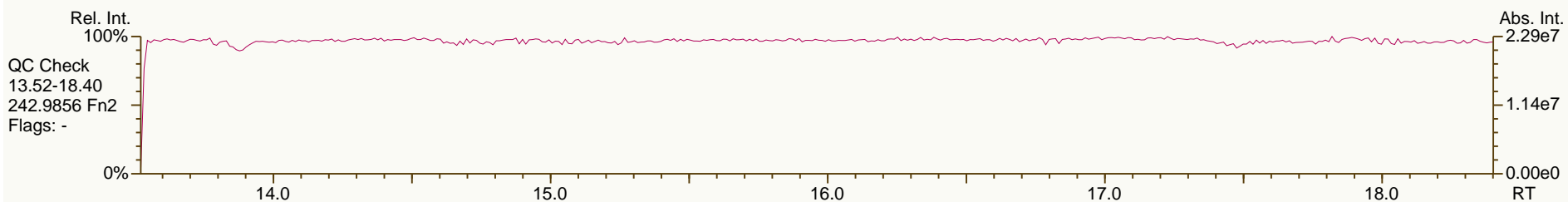
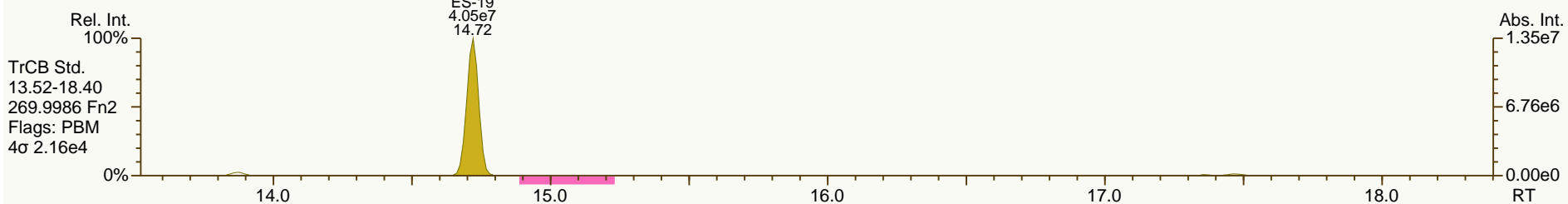
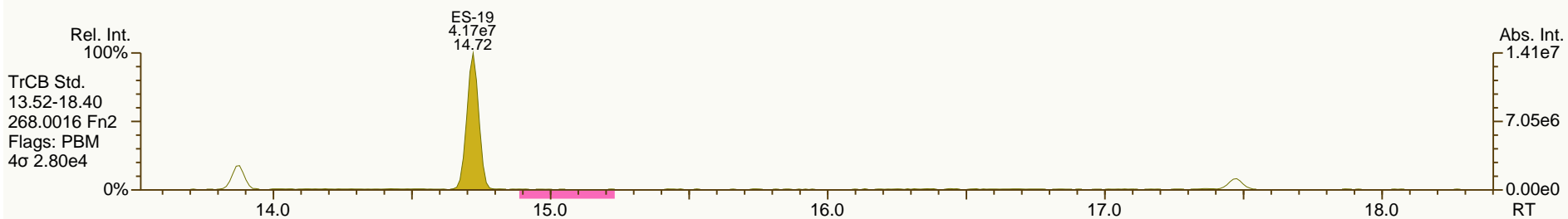
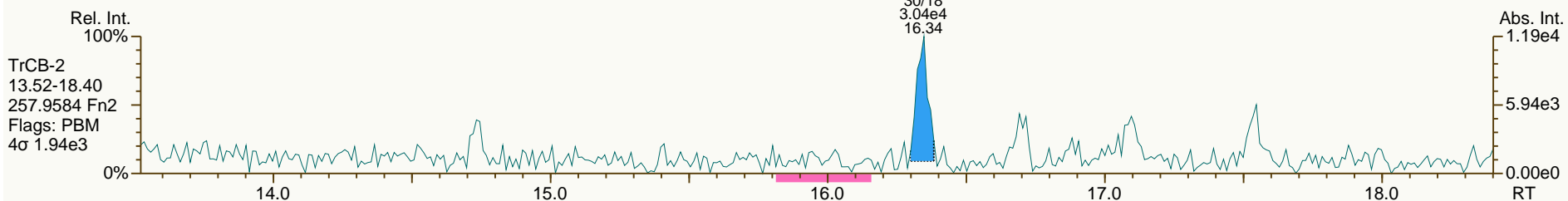
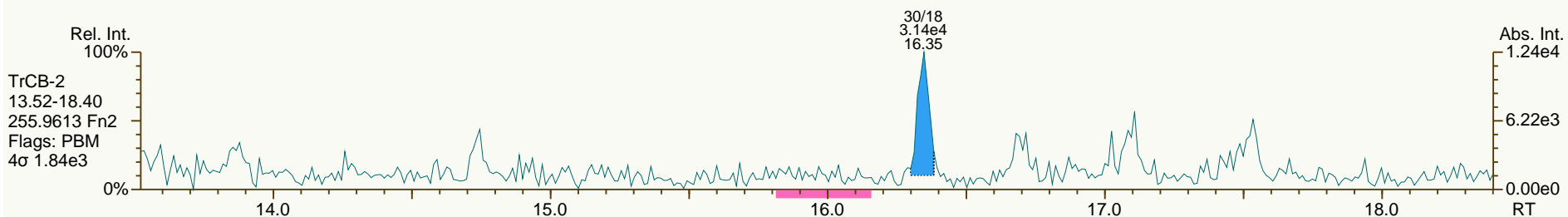
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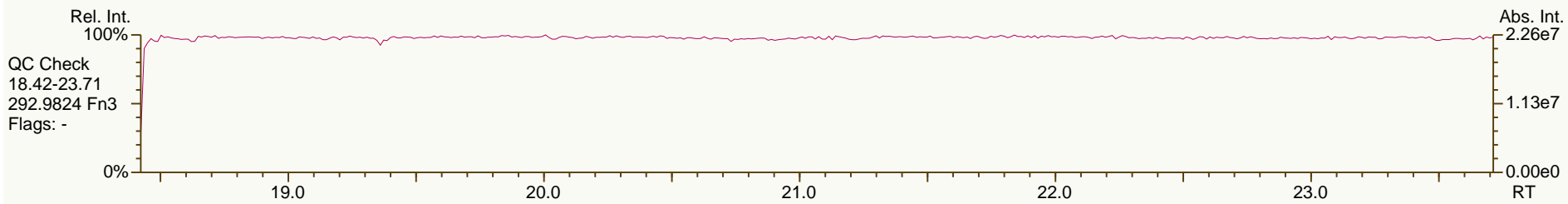
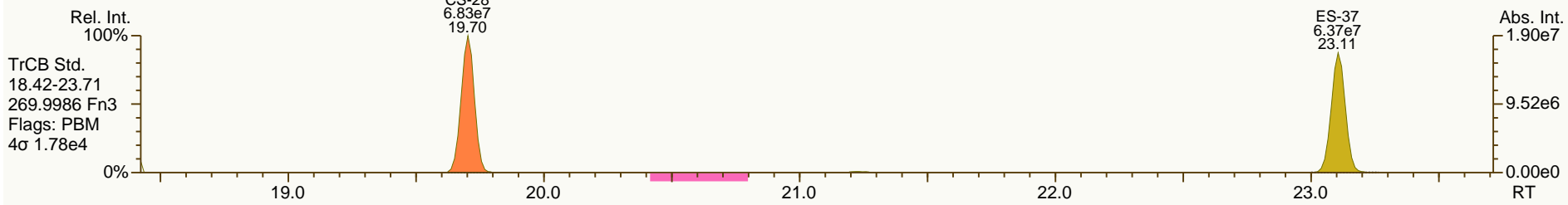
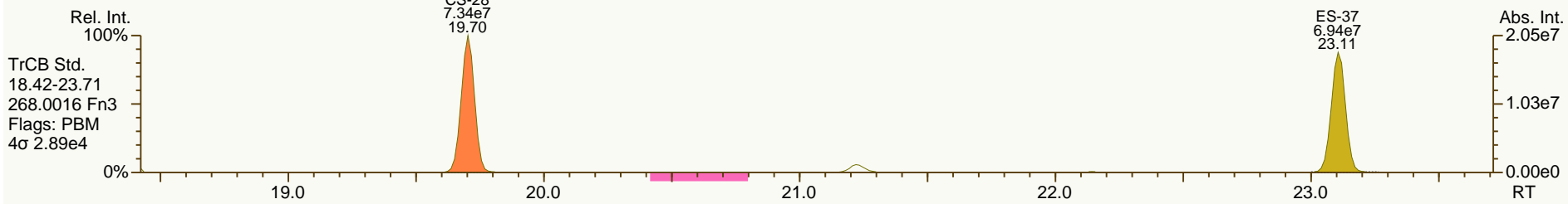
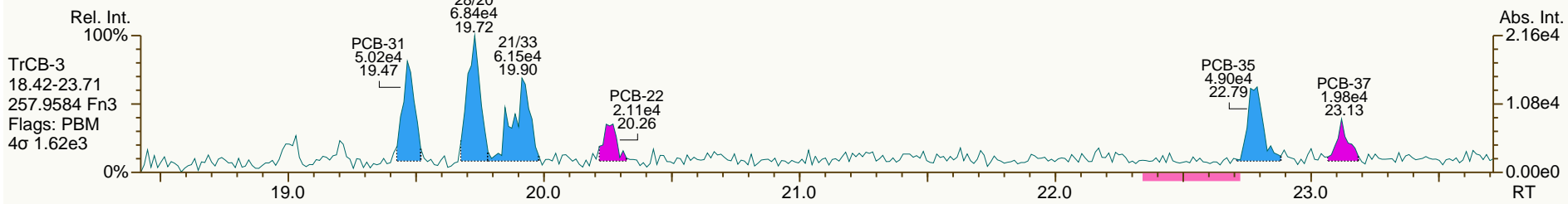
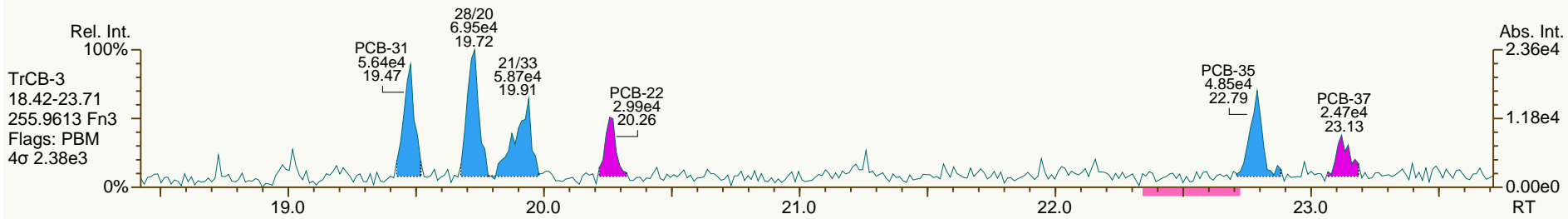
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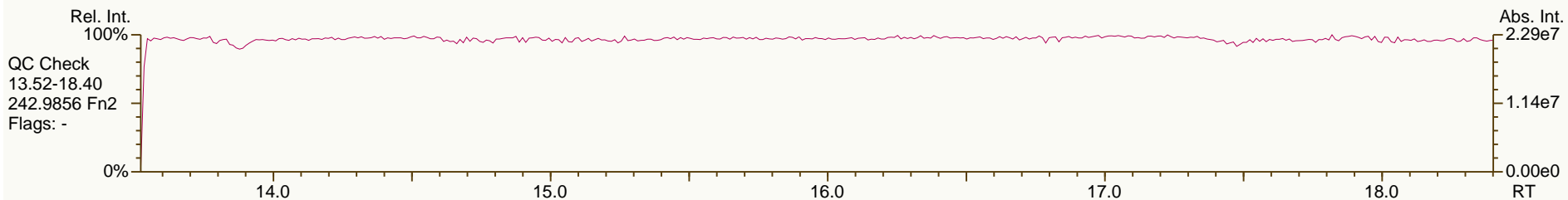
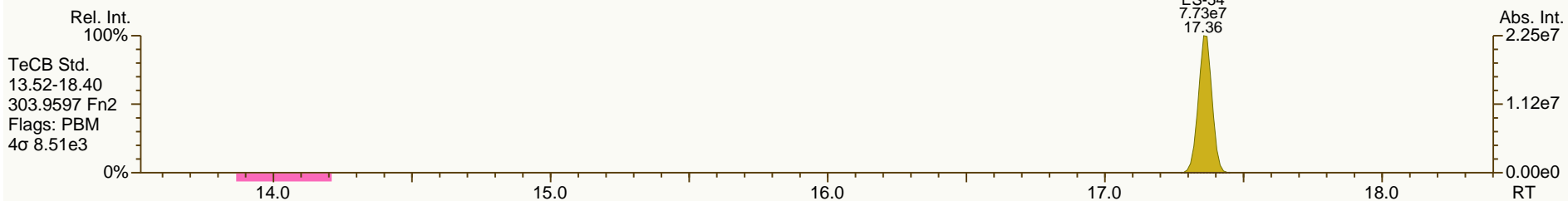
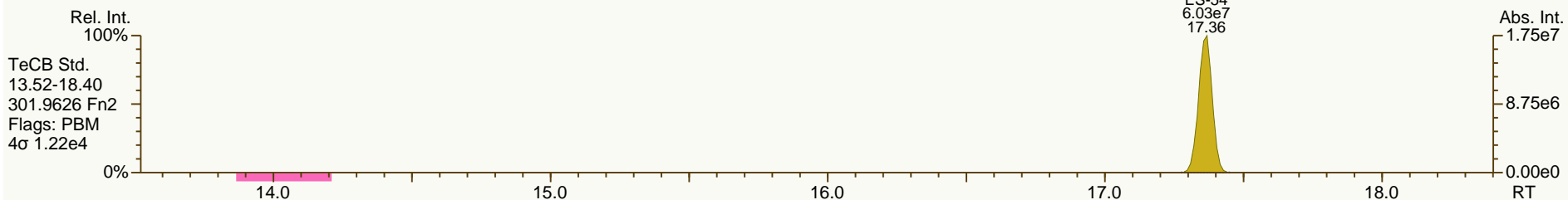
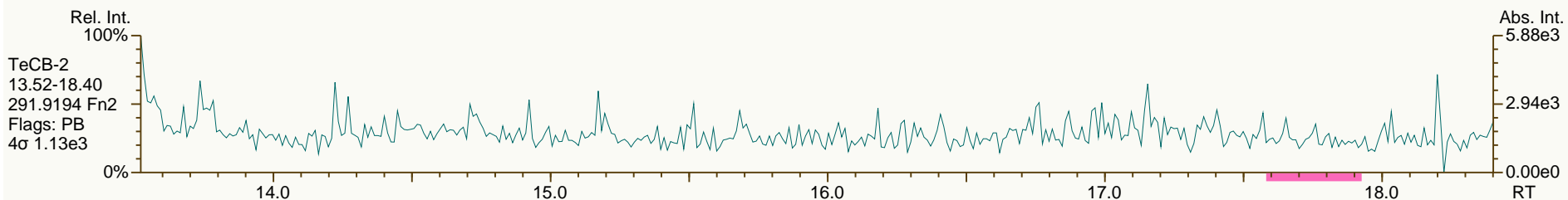
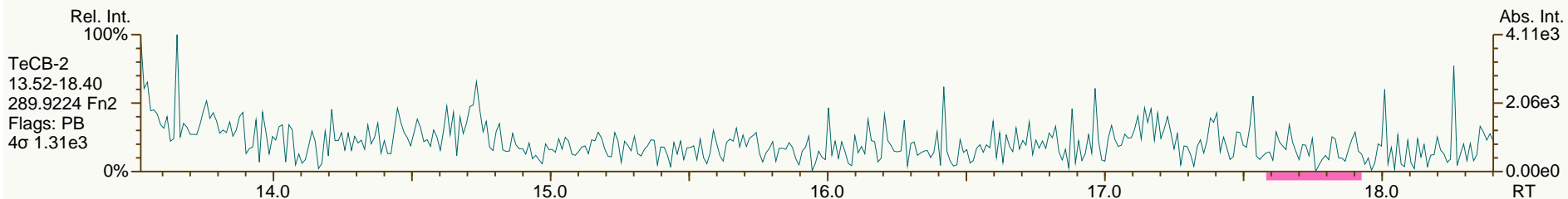
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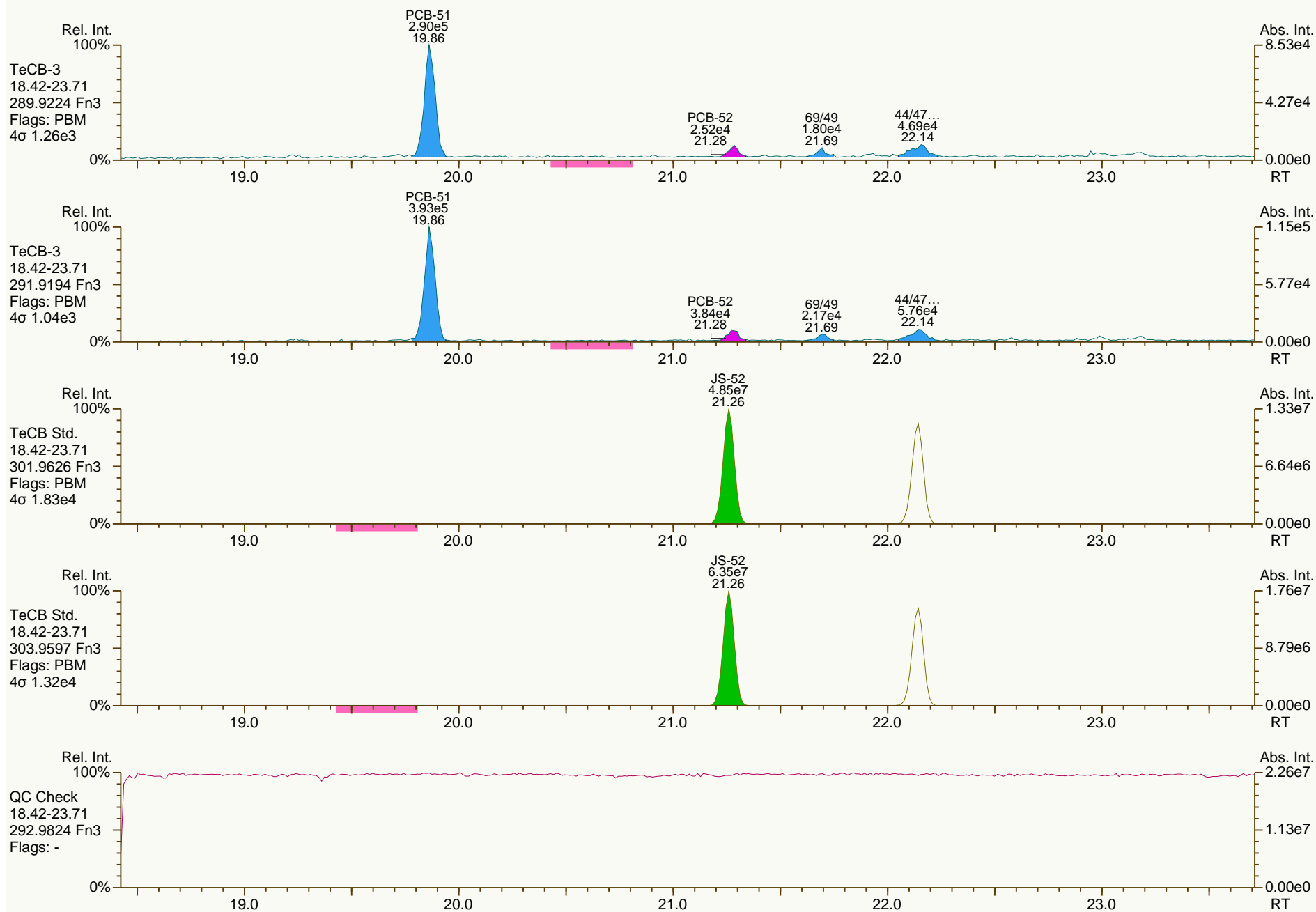
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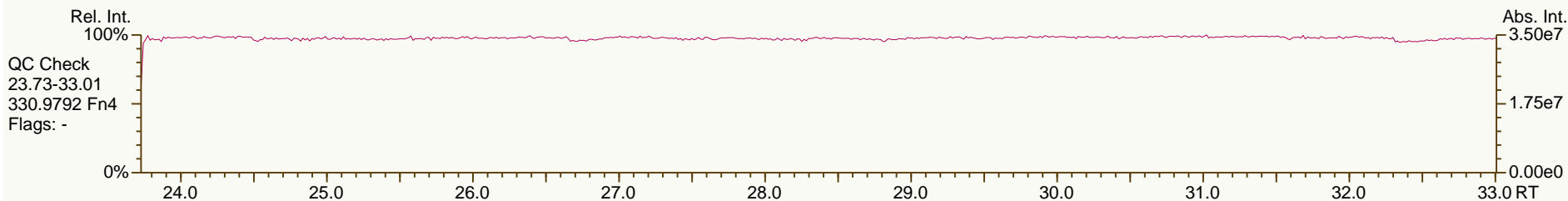
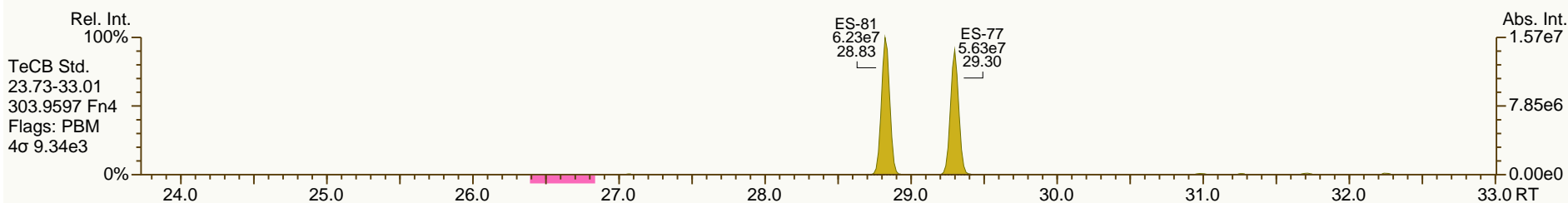
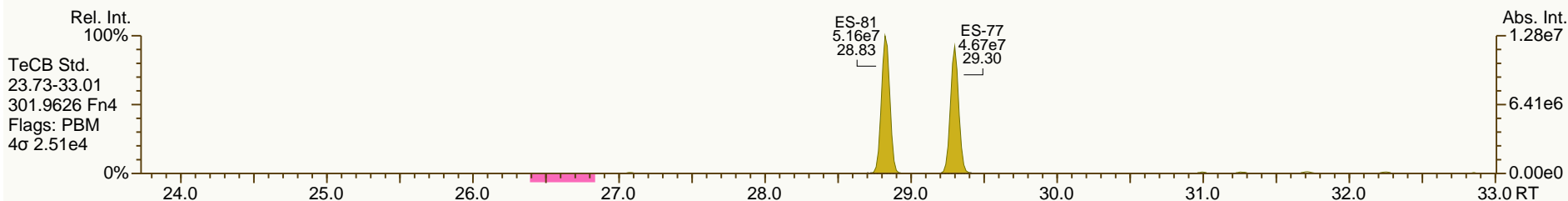
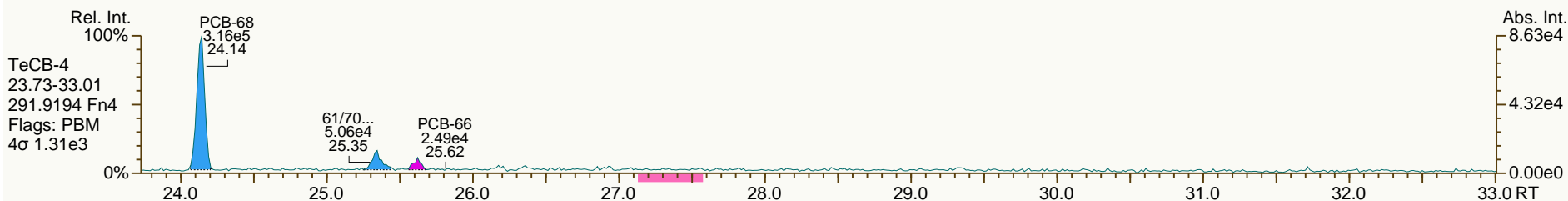
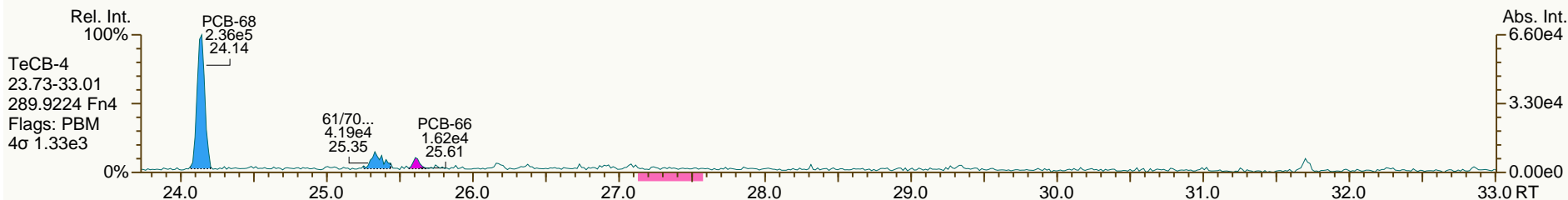
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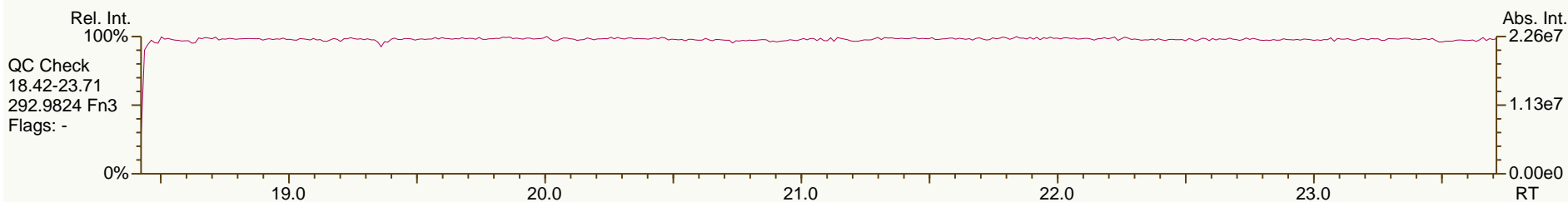
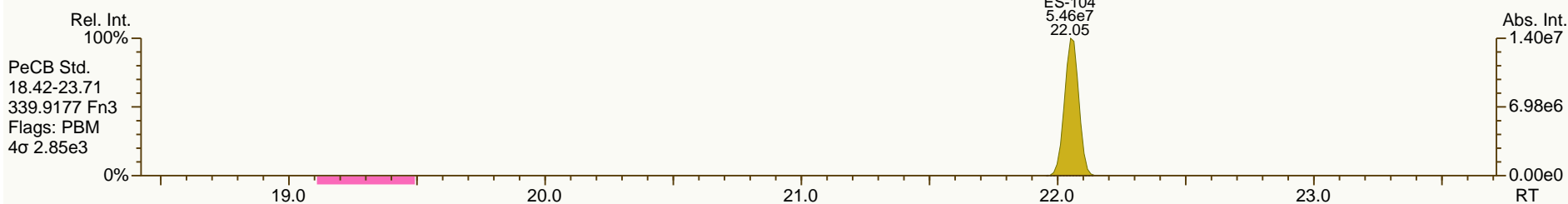
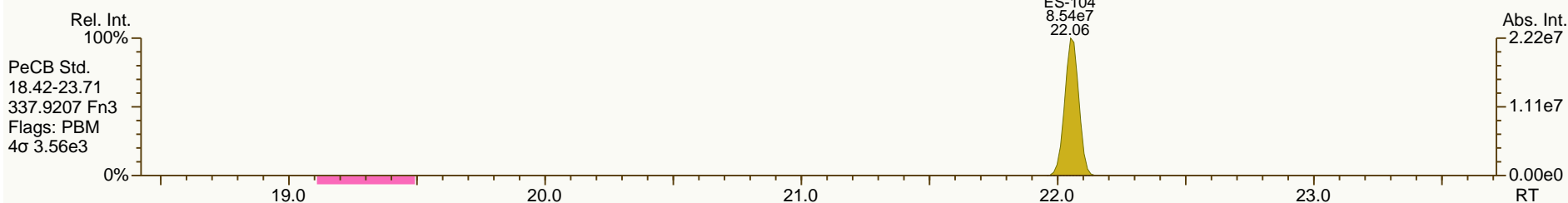
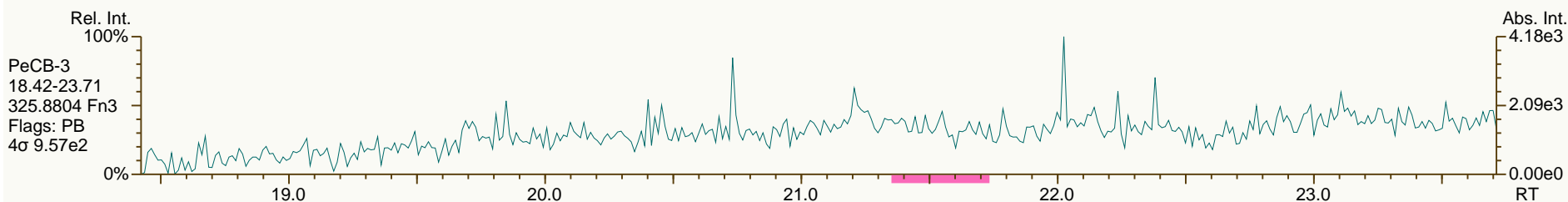
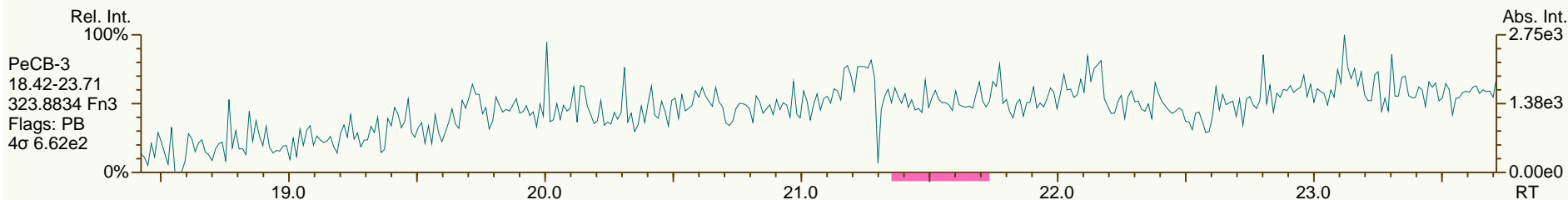
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Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 40

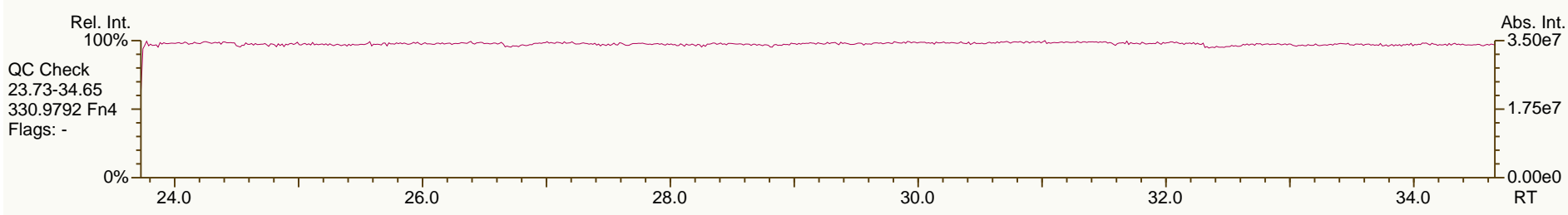
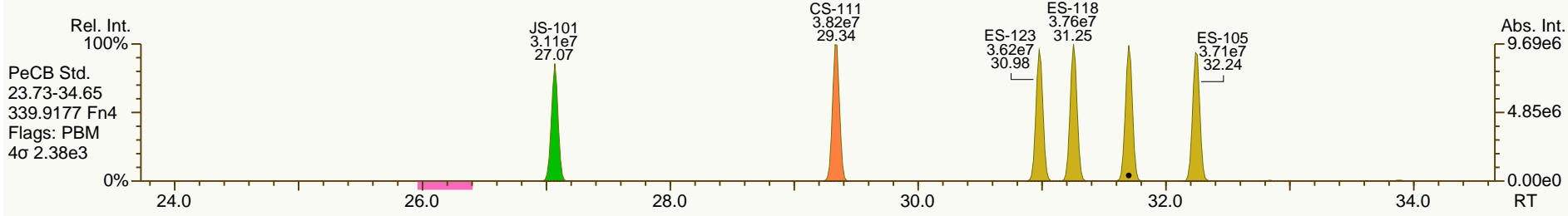
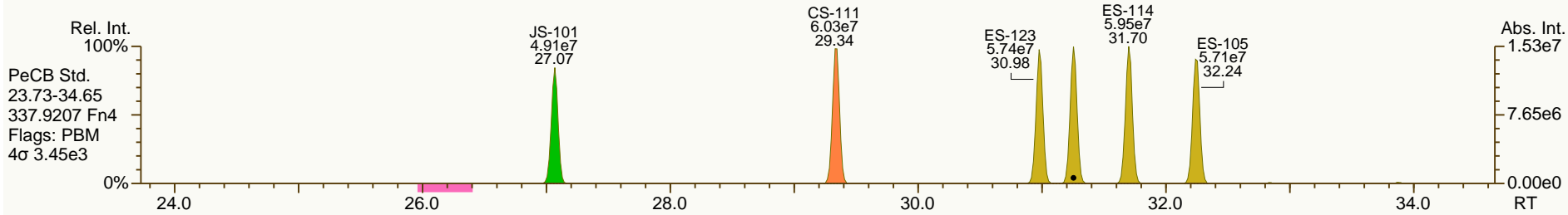
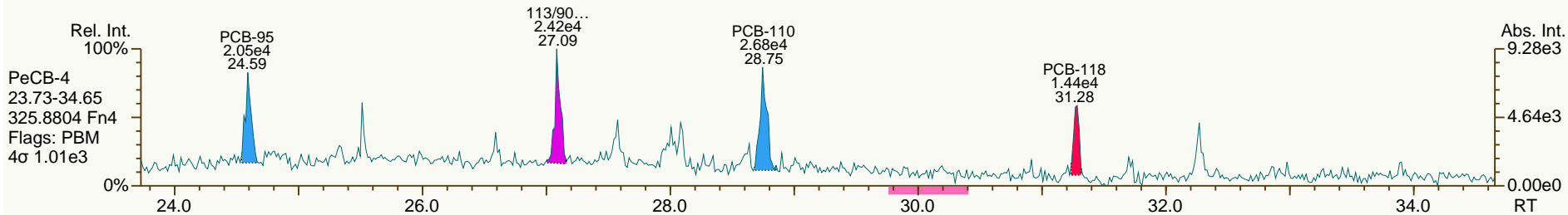
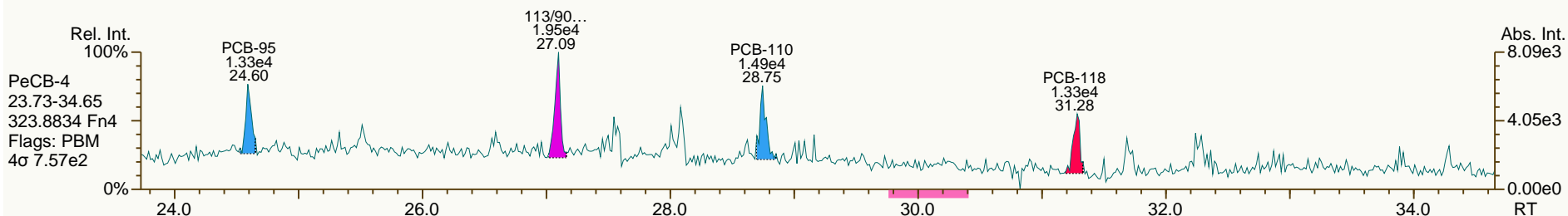
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User: CTW Datafile: 131014S07



SGS-AP ID: MB1_11361_PCB_TLX-RJ
 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 40

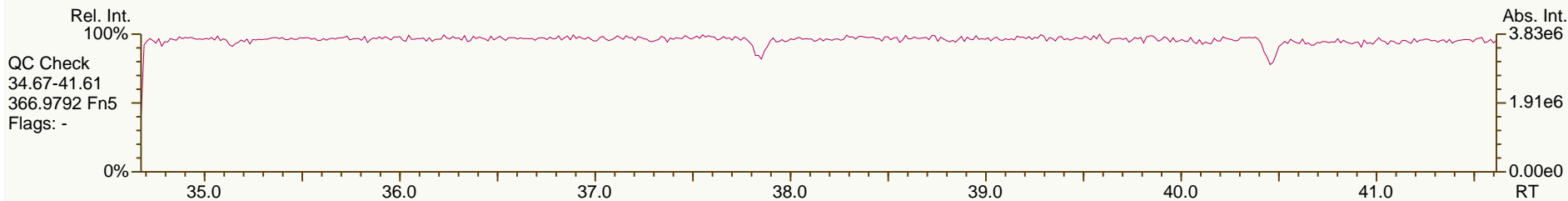
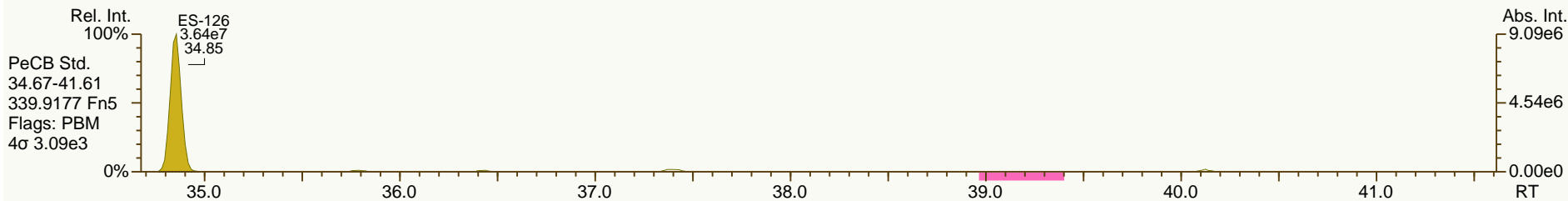
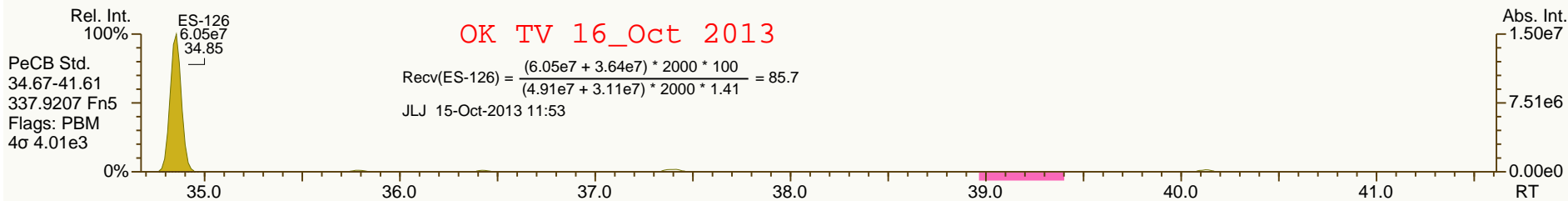
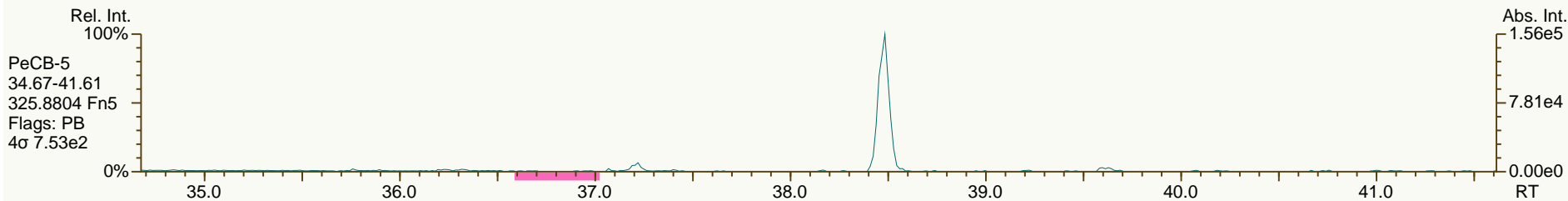
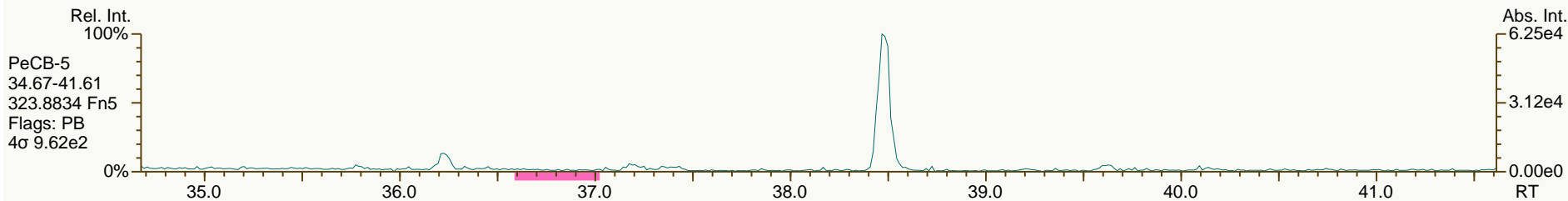
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SGS-AP ID: MB1_11361_PCB_TLX-RJ
 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 40

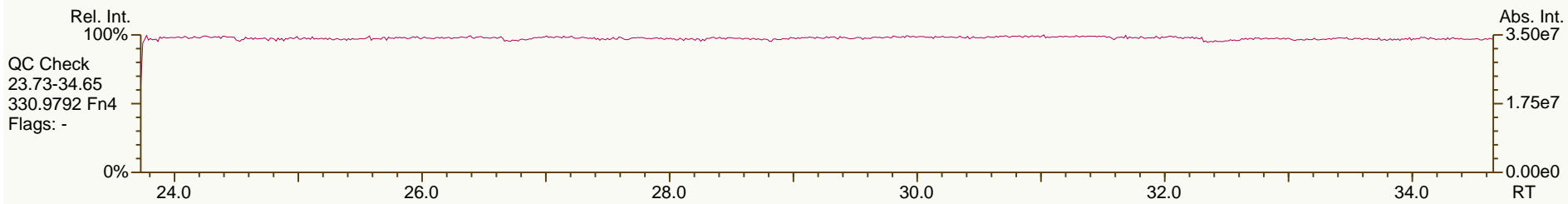
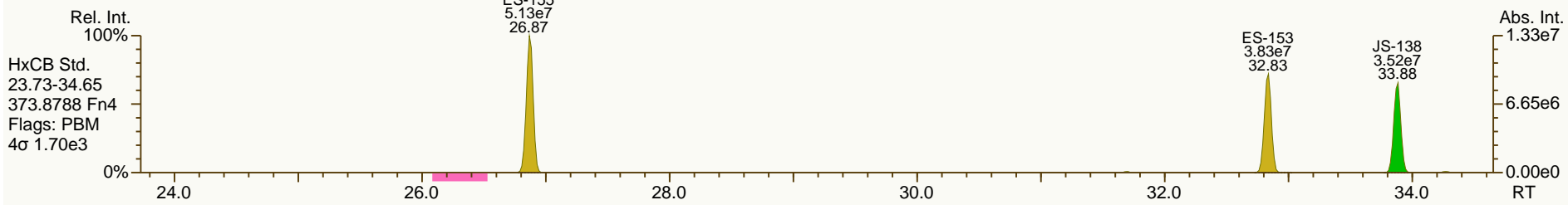
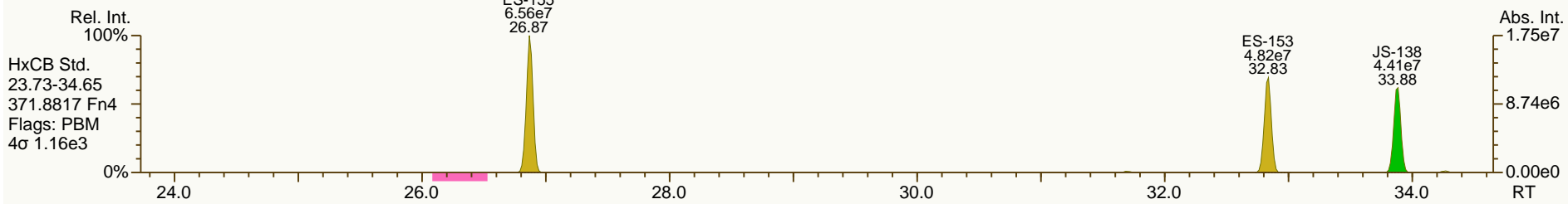
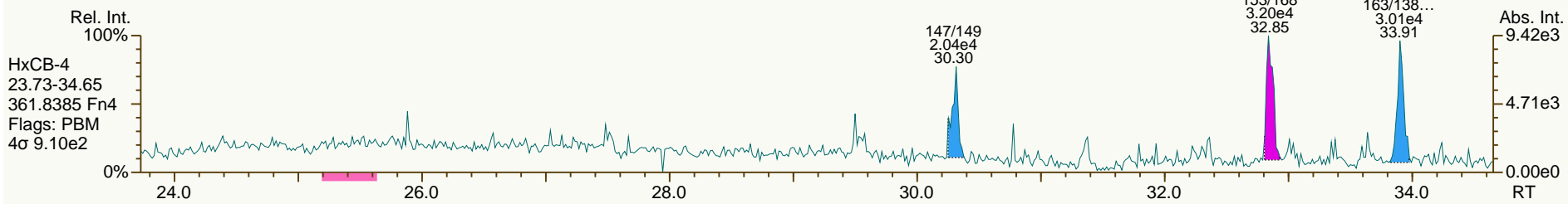
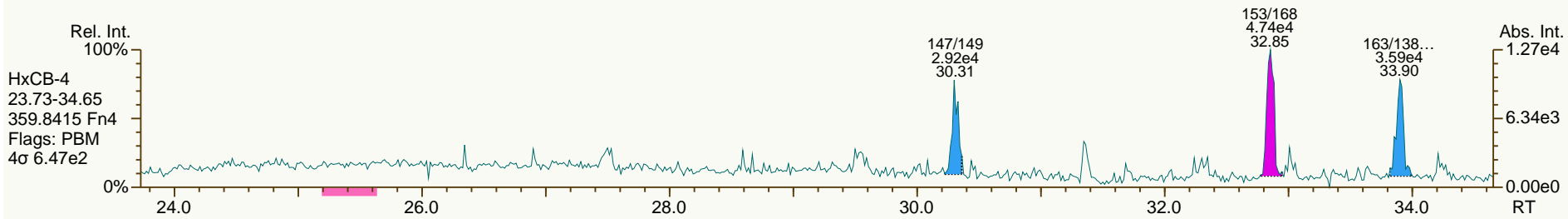
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SGS-AP ID: MB1_11361_PCB_TLX-RJ
 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 40

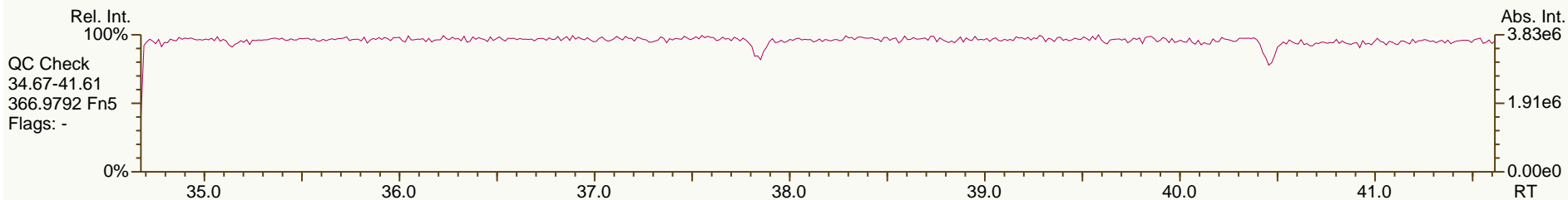
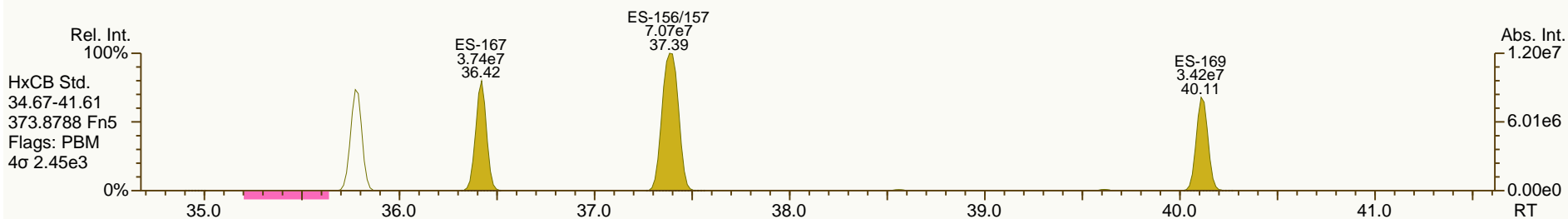
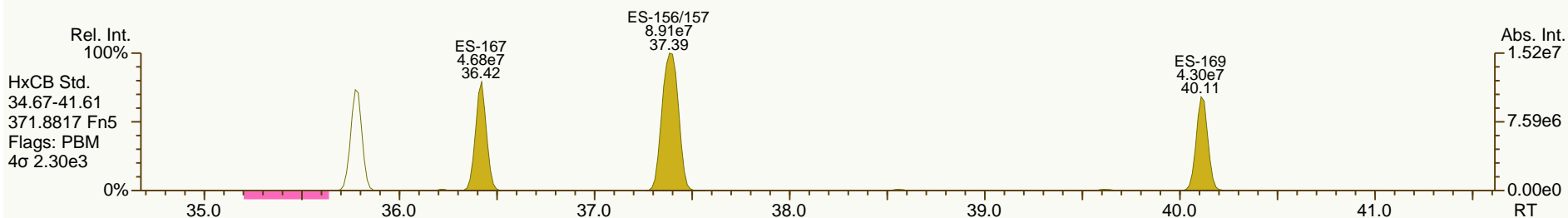
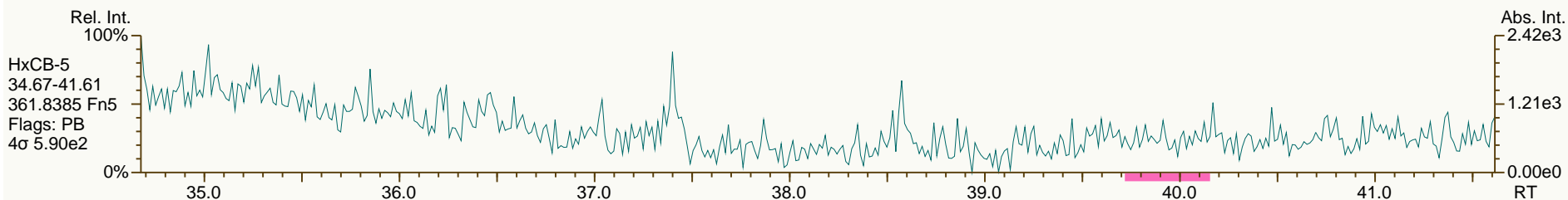
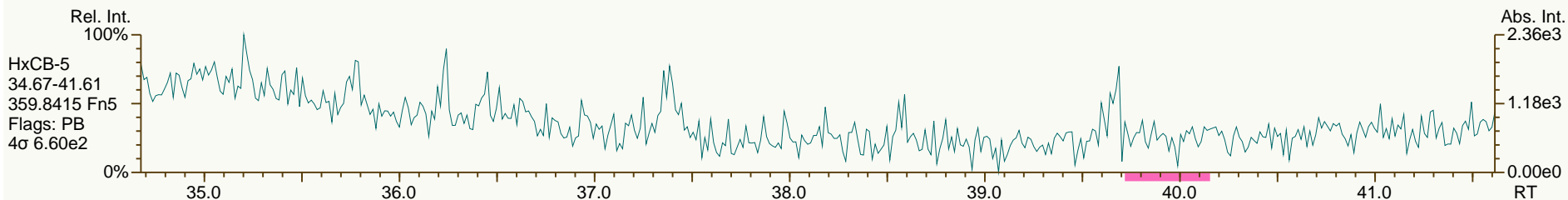
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SGS-AP ID: MB1_11361_PCB_TLX-RJ
Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 40

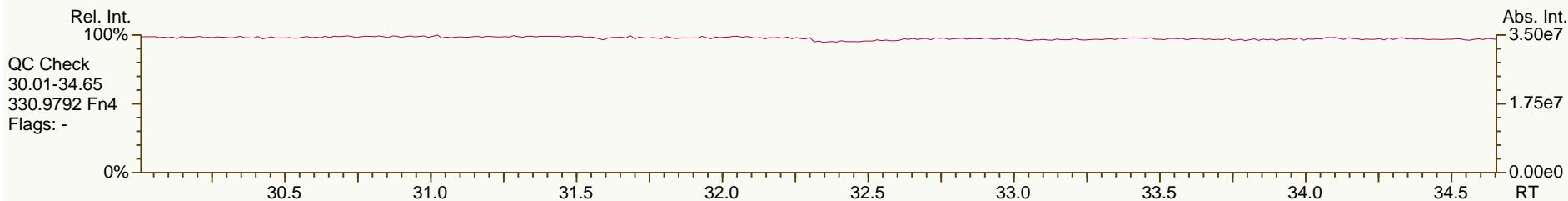
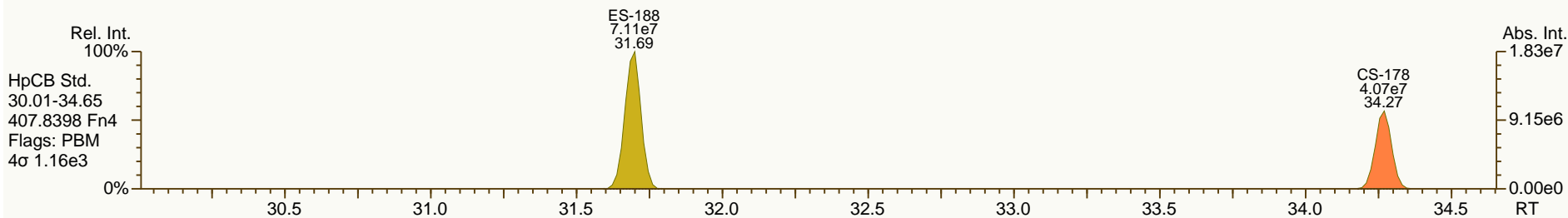
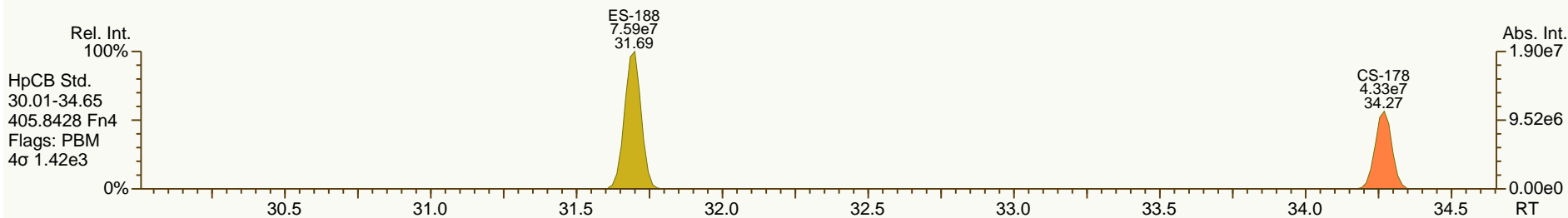
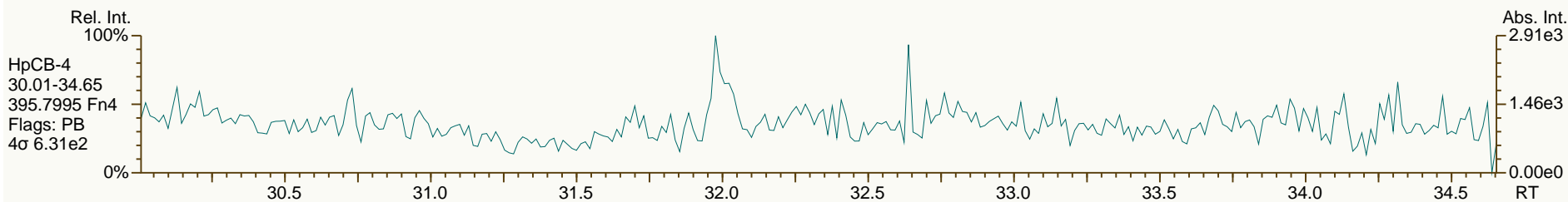
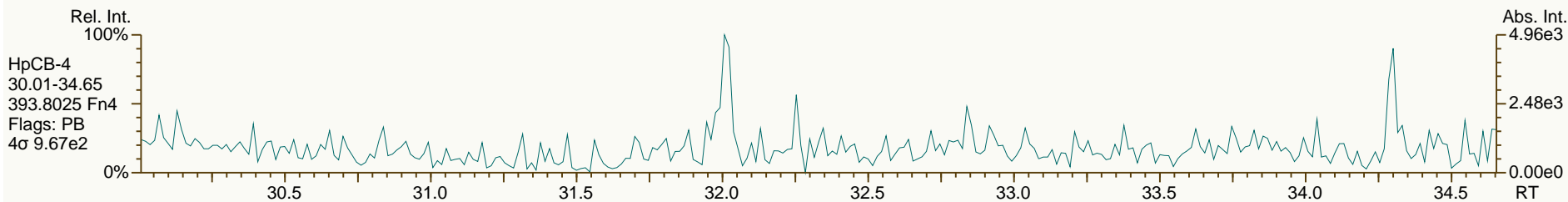
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SGS-AP ID: MB1_11361_PCB_TLX-RJ
Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 40

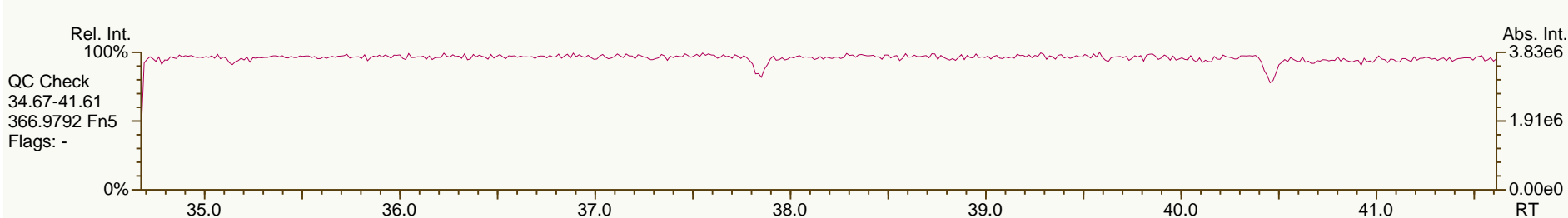
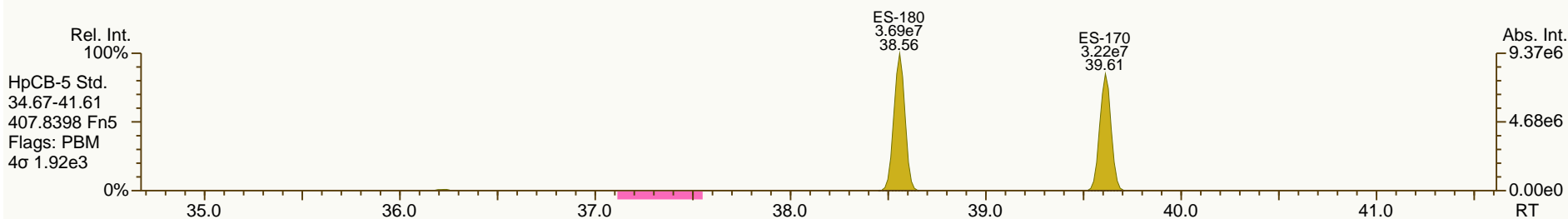
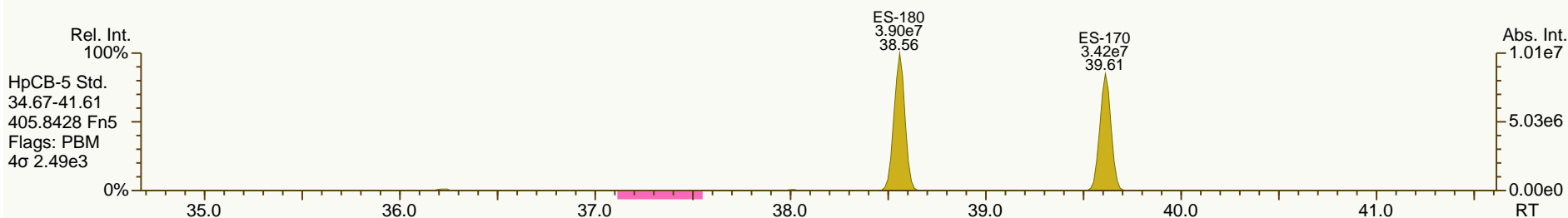
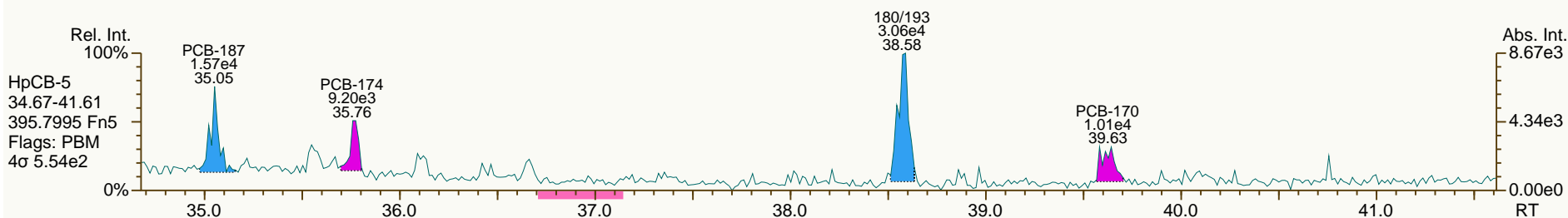
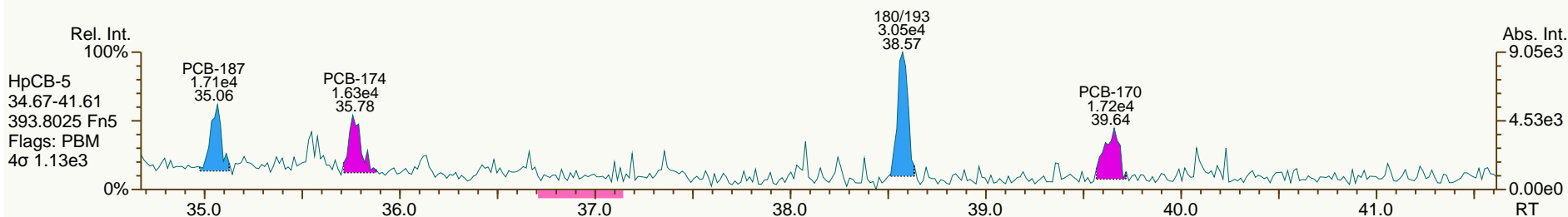
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SGS-AP ID: MB1_11361_PCB_TLX-RJ
Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 40

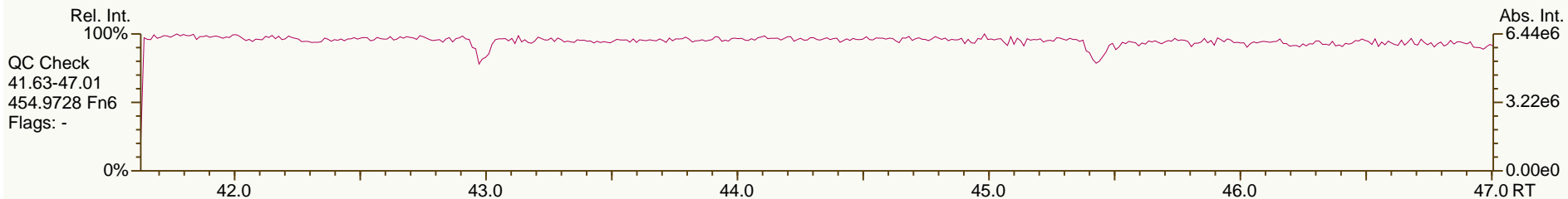
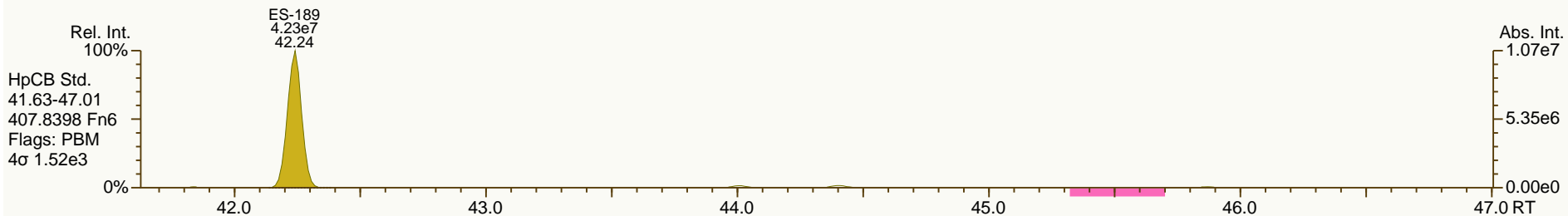
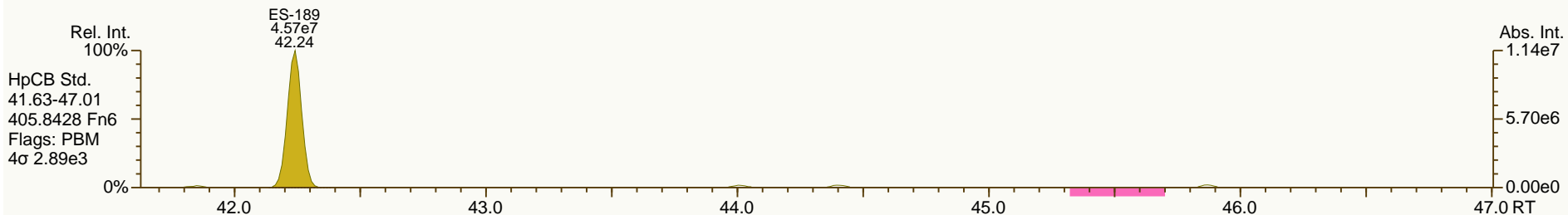
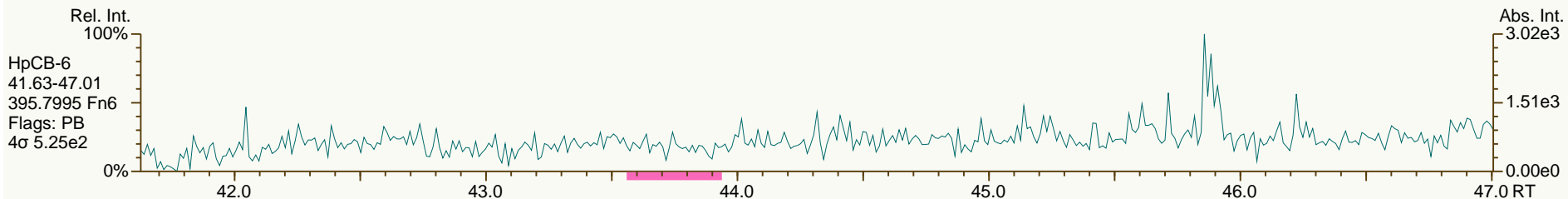
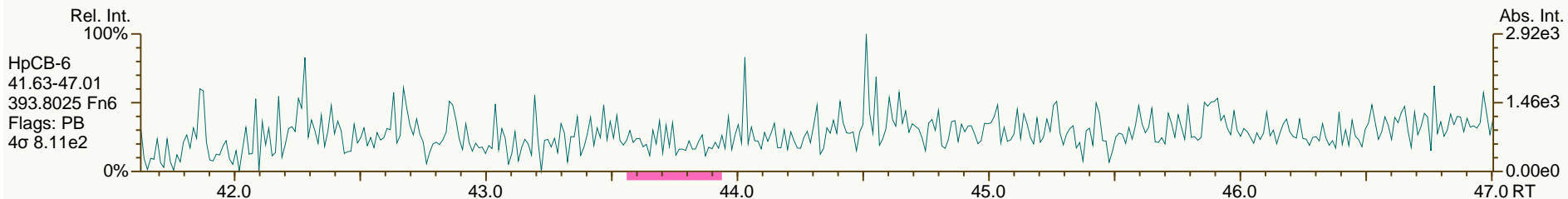
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SGS-AP ID: MB1_11361_PCB_TLX-RJ
 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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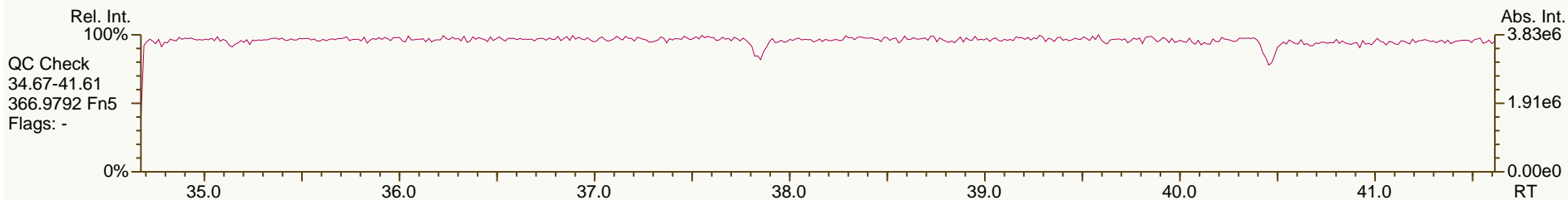
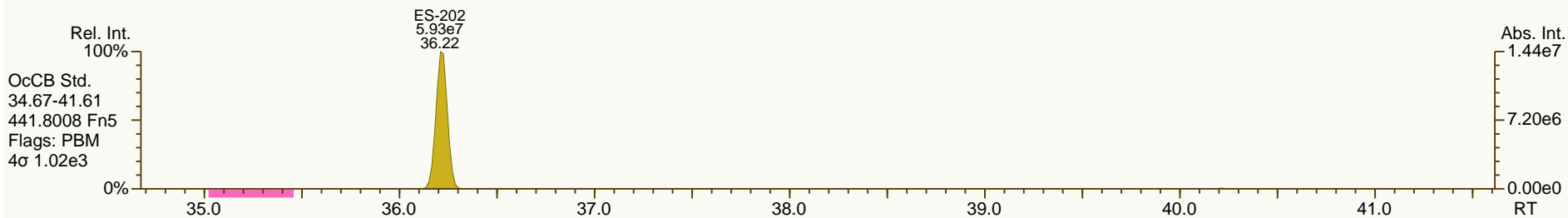
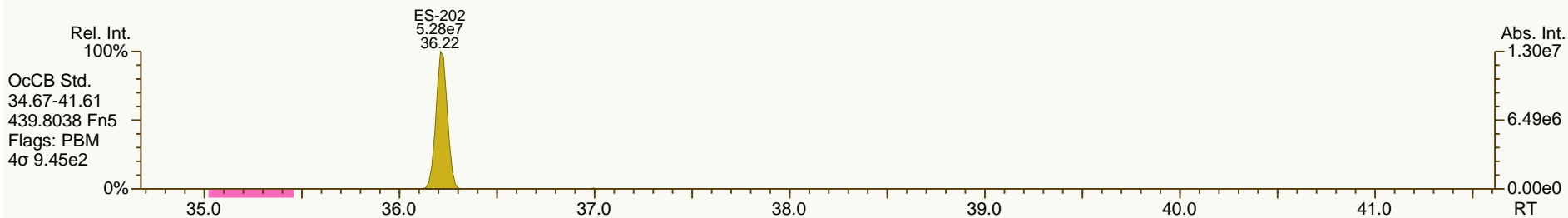
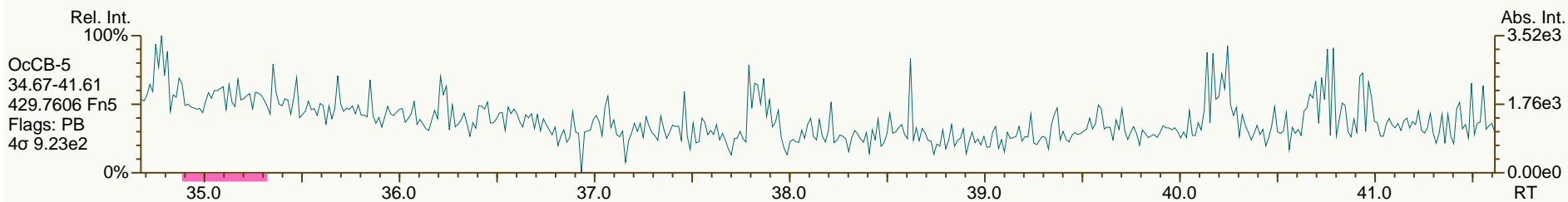
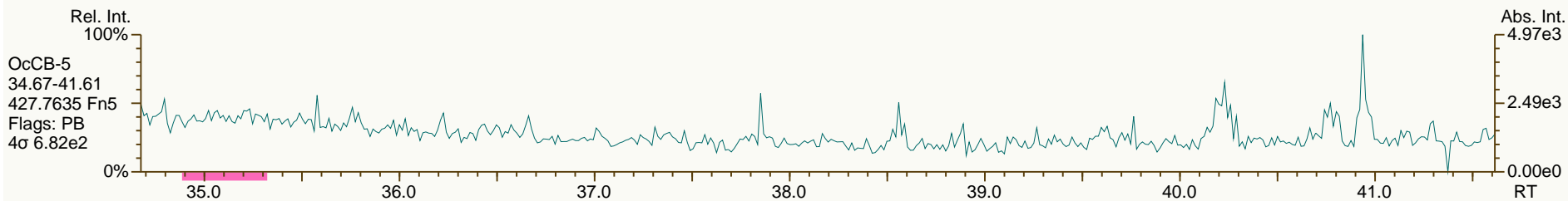
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SGS-AP ID: MB1_11361_PCB_TLX-RJ
Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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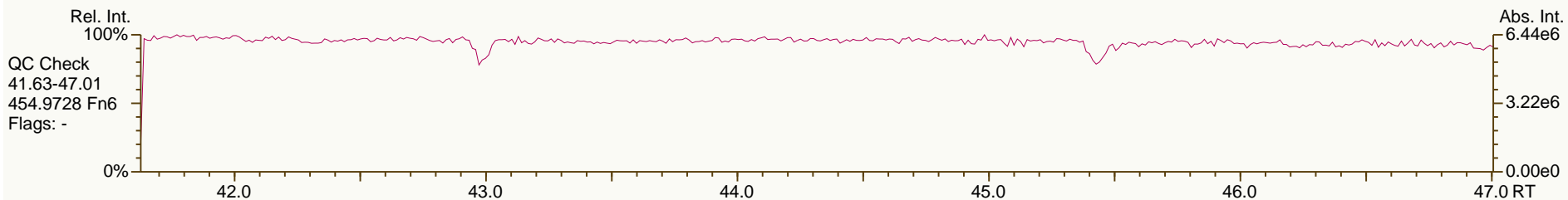
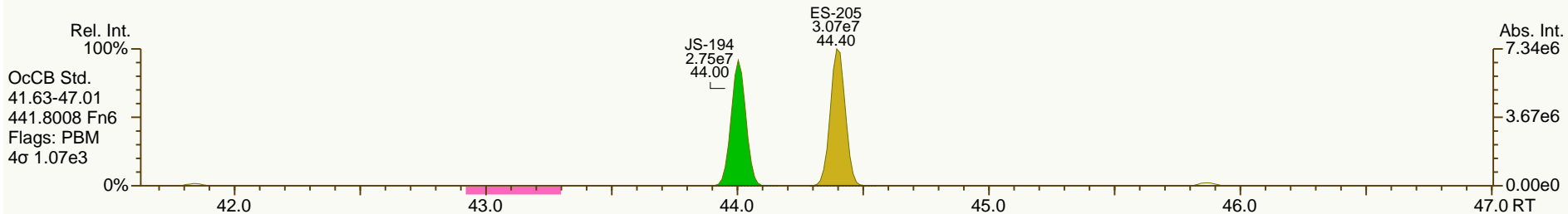
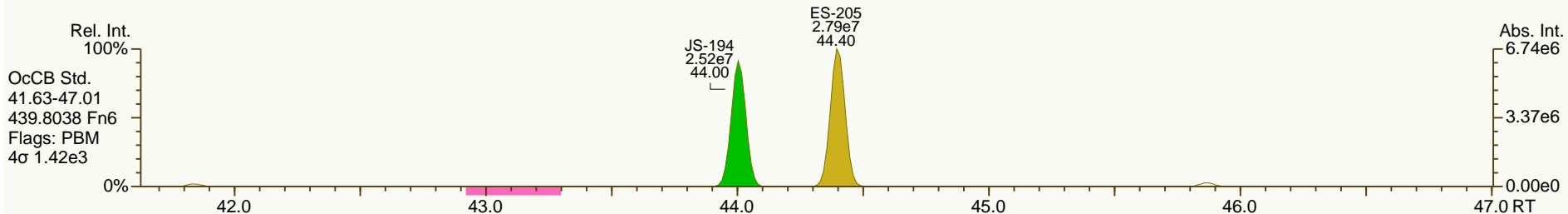
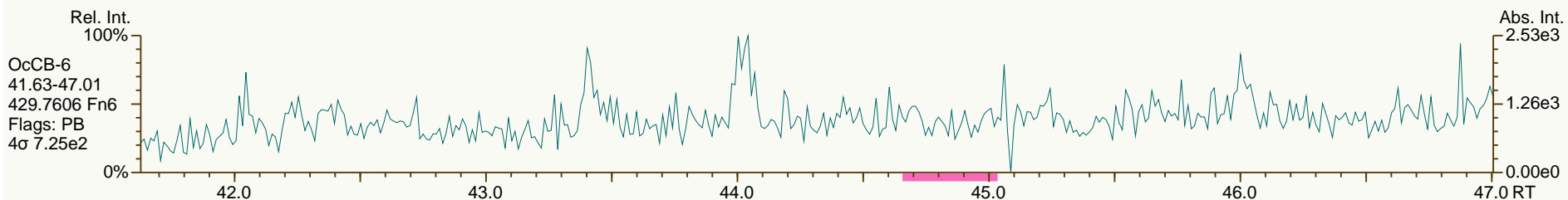
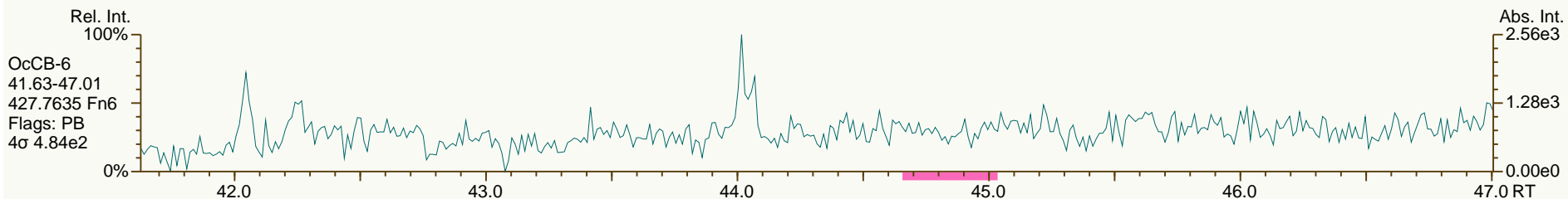
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SGS-AP ID: MB1_11361_PCB_TLX-RJ
 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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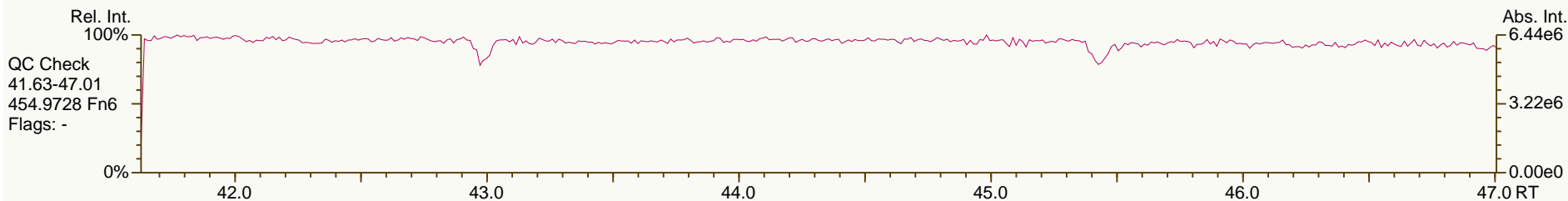
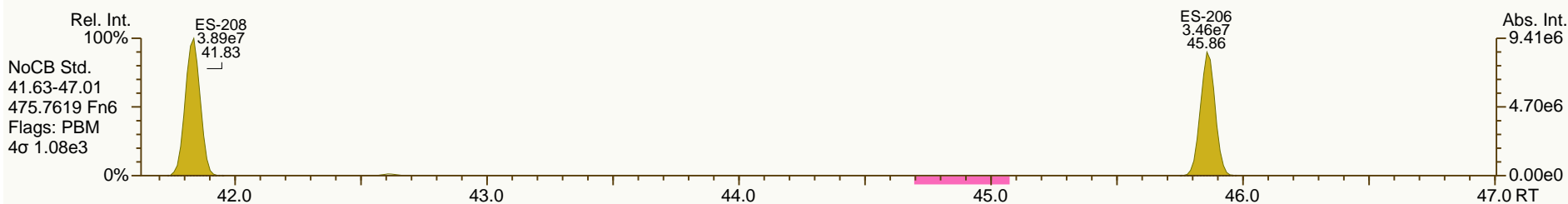
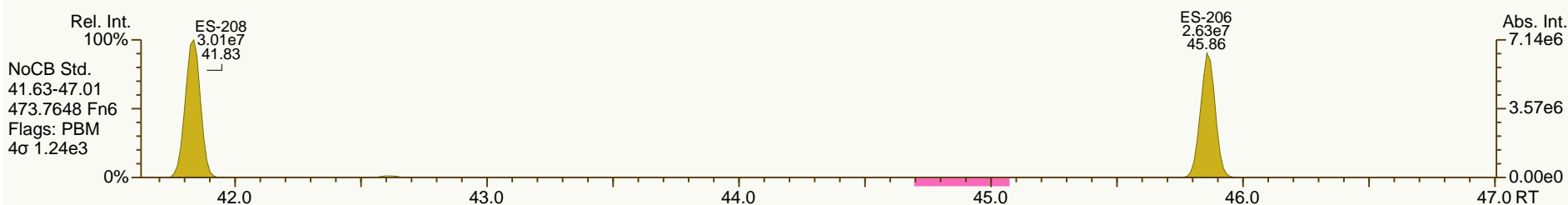
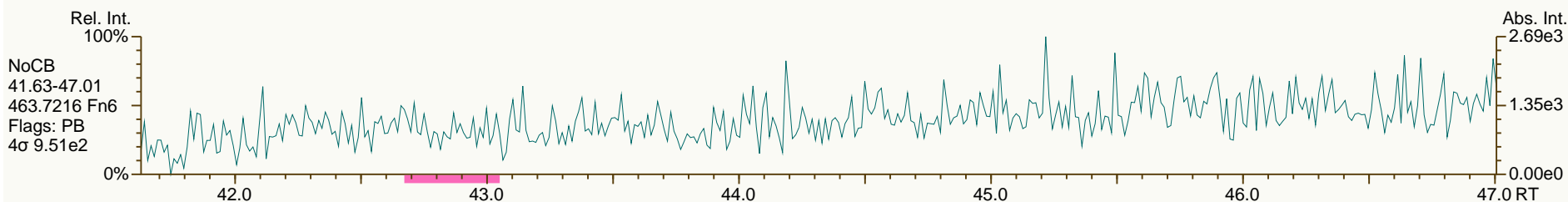
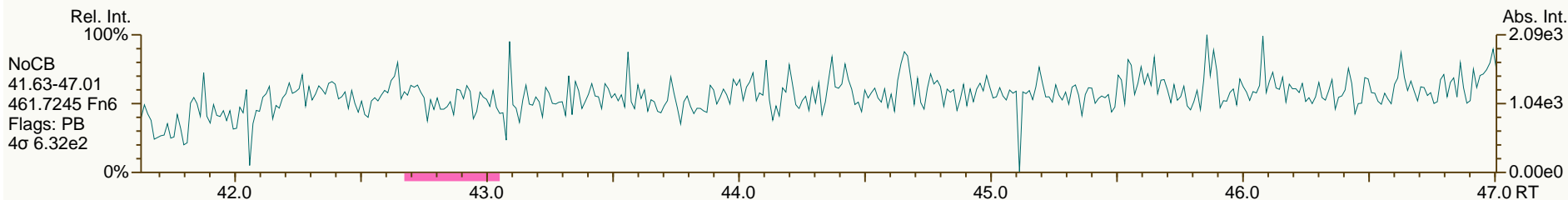
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SGS-AP ID: MB1_11361_PCB_TLX-RJ
Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 40

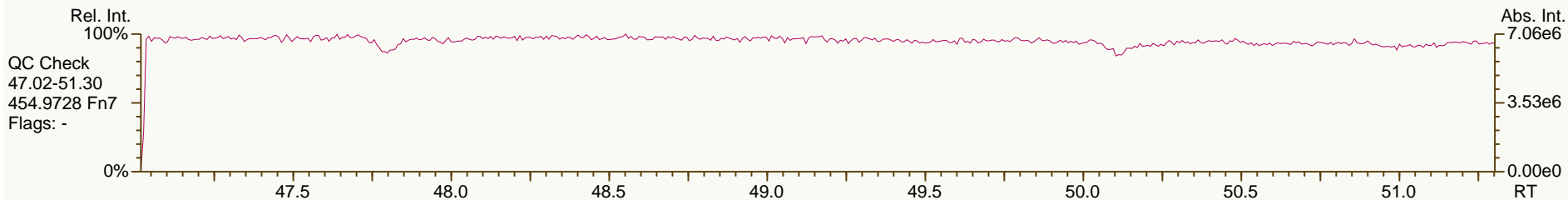
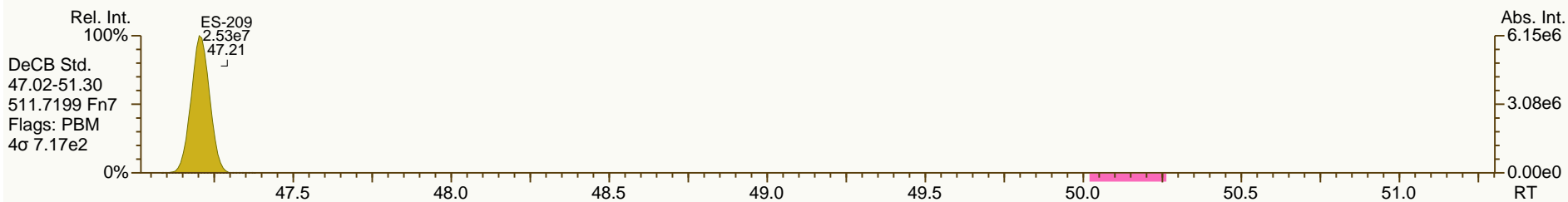
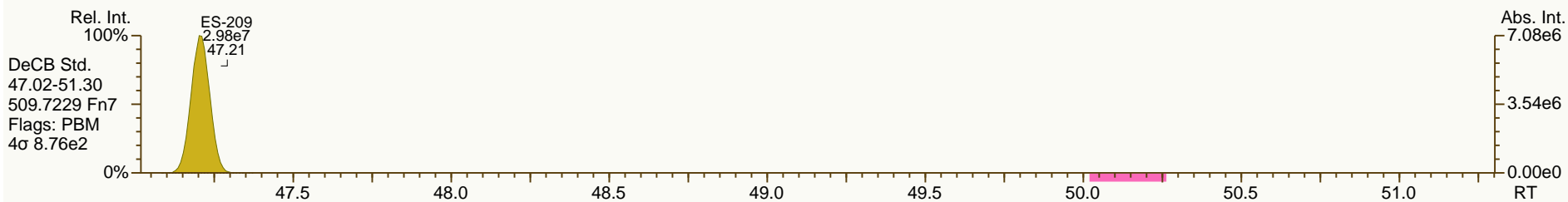
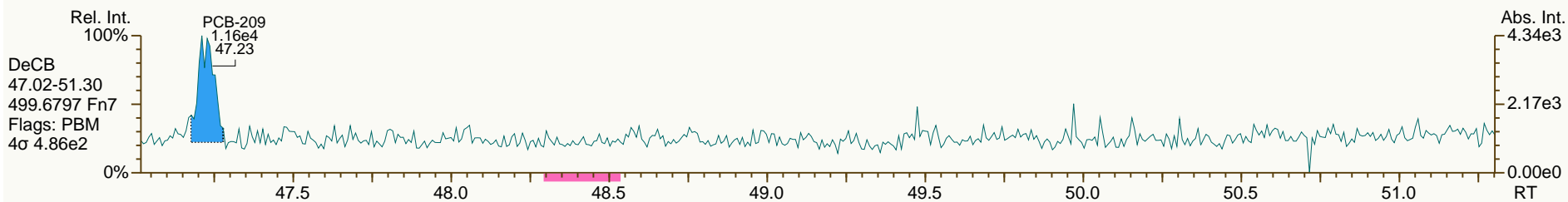
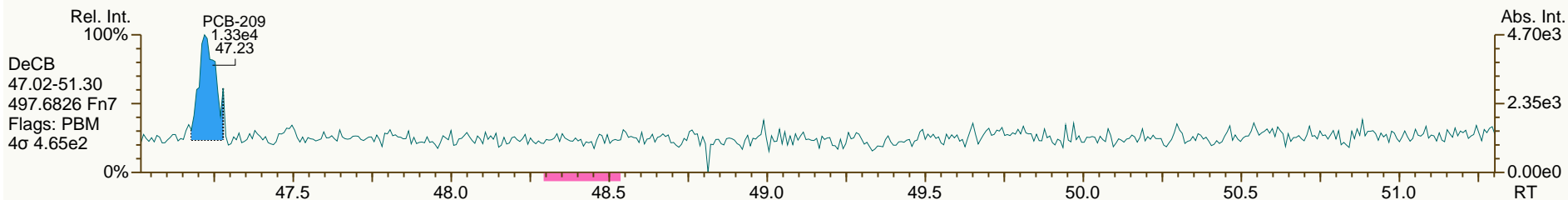
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SGS-AP ID: MB1_11361_PCB_TLX-RJ
Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 40

Acq: 14-Oct-2013 18:46:09
User: CTW Datafile: 131014S07



Lab ID: A5942_11361_PCB_001-RJ

ACQ: 14-Oct-2013 19:42:16 CTW

Wt/Vol: 0.86 L

ICAL: MM4_PCB_07122013_11SEP2013 CS3_131014_PCB_SC

Client ID: JW-RB-130913

UTP: 15-Oct-2013 11:40 JLJ

J-level: 11.6 pg/L Split: 1

Checkcode: 074-145-RRR

Datafile: 131014S08

RPT: 15-Oct-2013 11:50 JJ

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method HR-PCB

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	NotFnd		1.0006	-		0.00E+00		1.51	ND	2.25E+03	0.687
PCB-81 344'5'-TeCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	2.25E+03	0.77
PCB-105 233'44'-PeCB	32.25	J	1.0007	1.0007	0	3.52E+04	0.54	1.00	1.72	1.57E+03	0.79
PCB-114 2344'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.06	ND	1.57E+03	0.723
PCB-118 23'44'5'-PeCB	31.26	J B EMPC	1.0008	1.0007	-0.2	6.85E+04	0.72	1.01	3.29	1.57E+03	0.755
PCB-123 23'44'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.06	ND	1.57E+03	0.757
PCB-126 33'44'5'-PeCB	NotFnd		1.0006	-		0.00E+00		1.26	ND	1.65E+03	0.576
PCB-156/157 ...-HxCB	NotFnd	C	1.0006	-		0.00E+00		1.06	ND	1.37E+03	1.01
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.12	ND	1.37E+03	0.651
PCB-169 33'44'55'-HxCB	NotFnd		1.0005	-		0.00E+00		1.09	ND	1.37E+03	0.762
PCB-189 233'44'55'-HpCB	NotFnd		1.0005	-		0.00E+00		1.15	ND	1.51E+03	0.655
PCB-209 DeCB	47.21	J B	1.0004	1.0004	0	1.61E+04	1.08	1.03	1.22	9.54E+02	0.754
ES PCB-1	9.87	V	0.7193	0.7190	-0.2	1.76E+06	3.39	1.04	8.45 %	25%	150%
ES PCB-3	11.79		0.8589	0.8589	0	6.65E+06	3.08	0.99	33.7 %	25%	150%
ES PCB-4	12.00	V	0.8744	0.8742	-0.1	3.09E+06	1.62	0.71	21.8 %	25%	150%
ES PCB-15	17.11		1.2450	1.2457	+0.7	2.90E+07	1.63	1.09	133 %	25%	150%
ES PCB-19	14.70		1.0707	1.0708	+0.1	8.32E+06	1.04	0.59	70.5 %	25%	150%
ES PCB-37	23.09		1.0869	1.0871	+0.3	5.05E+07	1.09	1.32	97.2 %	25%	150%
ES PCB-54	17.35		0.8170	0.8166	-0.4	2.39E+07	0.79	1.35	44.8 %	25%	150%
ES PCB-77	29.28		1.3776	1.3785	+1.6	4.95E+07	0.82	1.07	118 %	25%	150%
ES PCB-81	28.81		1.3554	1.3563	+1.6	5.39E+07	0.82	1.19	115 %	25%	150%
ES PCB-104	22.04		0.8151	0.8147	-0.5	4.05E+07	1.53	1.62	69.4 %	25%	150%
ES PCB-105	32.23		1.1911	1.1914	+0.6	4.77E+07	1.57	1.30	102 %	25%	150%
ES PCB-114	31.69		1.1710	1.1713	+0.6	4.82E+07	1.58	1.32	101 %	25%	150%
ES PCB-118	31.24		1.1545	1.1548	+0.6	4.78E+07	1.58	1.30	102 %	25%	150%
ES PCB-123	30.97		1.1444	1.1446	+0.4	4.53E+07	1.57	1.26	99.8 %	25%	150%
ES PCB-126	34.84		1.2873	1.2878	+1.0	5.09E+07	1.62	1.41	101 %	25%	150%
ES PCB-153	32.82		0.9691	0.9691	0	4.46E+07	1.28	1.15	97.8 %	25%	150%
ES PCB-155	26.85		0.7933	0.7930	-0.5	4.79E+07	1.26	1.53	78.3 %	25%	150%
ES PCB-156/157	37.37		1.1035	1.1036	+0.2	8.40E+07	1.25	1.19	88.8 %	25%	150%
ES PCB-167	36.41		1.0749	1.0750	+0.2	4.34E+07	1.26	1.22	88.8 %	25%	150%
ES PCB-169	40.10		1.1838	1.1841	+0.7	4.09E+07	1.26	1.18	86.6 %	25%	150%
ES PCB-170	39.60		0.9003	0.9002	-0.2	3.47E+07	1.07	1.22	95.6 %	25%	150%
ES PCB-180	38.54		0.8763	0.8762	-0.2	4.04E+07	1.05	1.41	100 %	25%	150%
ES PCB-188	31.68		0.7204	0.7202	-0.4	7.16E+07	1.05	1.71	105 %	25%	150%
ES PCB-189	42.23		0.9599	0.9599	0	4.72E+07	1.08	1.84	96.5 %	25%	150%
ES PCB-202	36.20		0.8231	0.8230	-0.2	5.70E+07	0.89	1.42	101 %	25%	150%
ES PCB-205	44.39		1.0090	1.0090	0	3.11E+07	0.89	1.25	93 %	25%	150%
ES PCB-206	45.85		1.0422	1.0422	0	3.18E+07	0.79	1.24	96.6 %	25%	150%
ES PCB-208	41.82		0.9507	0.9506	-0.3	3.67E+07	0.79	1.42	97.1 %	25%	150%
ES PCB-209	47.19		1.0727	1.0728	+0.3	2.96E+07	1.18	1.23	90.3 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	19.69		0.9269	0.9267	-0.2	4.40E+07	1.08	1.06	81.9 %	30%	135%
SS PCB-111	29.32		1.0838	1.0839	+0.2	4.78E+07	1.58	1.06	99.5 %	30%	135%
SS PCB-178	34.25		1.0114	1.0115	+0.2	4.42E+07	1.04	0.58	106 %	30%	135%
CS PCB-28	19.69		0.9269	0.9267	-0.2	4.40E+07	1.08	1.40	79.6 %	30%	135%
CS PCB-111	29.32		1.0838	1.0839	+0.2	4.78E+07	1.58	1.34	99.3 %	30%	135%
CS PCB-178	34.25		1.0114	1.0115	+0.2	4.42E+07	1.04	0.99	112 %	30%	135%
JS PCB-9	13.73					2.00E+07	1.68				
JS PCB-52	21.24					3.94E+07	0.77				
JS PCB-101	27.05					3.60E+07	1.60				
JS PCB-138	33.87					3.99E+07	1.26				
JS PCB-194	43.99					2.66E+07	0.90				
						Totals	NON-EMPC	EMPC	DL		
						Mono-CBs	0	0	10.6		
						Di-CBs	11.8	11.8	20.2		
						Tri-CBs	1.59	1.59	5.37		
						Tetra-CBs	5.4	6.33	1.13		
						Penta-CBs	10.7	18	0.731		
						Hexa-CBs	25.7	25.7	0.75		
						Hepta-CBs	16.4	25	0.769		
						Octa-CBs	7.37	9.94	0.735		
						Nona-CBs	0	0	1.1		
PCB-1 2-MoCB	NotFnd		1.0011	-		0.00E+00	1.20		ND	2.76E+03	16.2
PCB-2 3-MoCB	NotFnd		0.9877	-		0.00E+00	1.28		ND	2.76E+03	4.95
PCB-3 4-MoCB	NotFnd		1.0010	-		0.00E+00	1.24		ND	2.76E+03	5.11
PCB-4 22'-DiCB	NotFnd		1.0012	-		0.00E+00	0.97		ND	7.46E+03	37
PCB-10 26'-DiCB	NotFnd		1.0138	-		0.00E+00	1.40		ND	7.46E+03	25.7
PCB-9 25'-DiCB	NotFnd		1.0011	-		0.00E+00	1.02		ND	6.03E+03	4.08
PCB-7 24'-DiCB	NotFnd		1.0114	-		0.00E+00	1.17		ND	6.03E+03	3.57
PCB-6 23'-DiCB	NotFnd		1.0264	-		0.00E+00	1.08		ND	6.03E+03	3.87
PCB-5 23'-DiCB	NotFnd		1.0455	-		0.00E+00	1.09		ND	6.03E+03	3.82
PCB-8 24'-DiCB	NotFnd		1.0535	-		0.00E+00	1.11		ND	6.03E+03	3.76
PCB-14 35'-DiCB	NotFnd		0.9280	-		0.00E+00	1.26		ND	6.03E+03	3.31
PCB-11 33'-DiCB	16.59	B	0.9699	0.9697	-0.2	1.61E+05	SI	1.10	11.8	6.03E+03	3.82
PCB-13/12 34'/34'-DiCB	NotFnd	C	0.9853	-		0.00E+00	1.12		ND	6.03E+03	3.72
PCB-15 44'-DiCB	NotFnd		1.0008	-		0.00E+00	1.23		ND	6.03E+03	3.4
PCB-19 22'6-TrCB	NotFnd		1.0011	-		0.00E+00	0.97		ND	4.16E+03	9.33
PCB-30/18 246/22'5-TrCB	NotFnd	C	1.1091	-		0.00E+00	1.24		ND	4.16E+03	7.26
PCB-17 22'4-TrCB	NotFnd		1.1342	-		0.00E+00	1.09		ND	4.16E+03	8.26
PCB-27 23'6-TrCB	NotFnd		1.1467	-		0.00E+00	1.46		ND	4.16E+03	6.18
PCB-24 236-TrCB	NotFnd		1.1543	-		0.00E+00	1.39		ND	4.16E+03	6.48
PCB-16 22'3-TrCB	NotFnd		1.1606	-		0.00E+00	0.88		ND	4.16E+03	10.3

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	NotFnd		1.1909	-		0.00E+00		1.55	ND	4.16E+03	5.82
PCB-34 23'5'-TrCB	NotFnd		0.8058	-		0.00E+00		1.29	ND	4.04E+03	1.4
PCB-23 235-TrCB	NotFnd		0.8114	-		0.00E+00		1.32	ND	4.04E+03	1.36
PCB-26/29 23'5'/245-TrCB	NotFnd	C	0.8232	-		0.00E+00		1.34	ND	4.04E+03	1.35
PCB-25 23'4-TrCB	NotFnd		0.8313	-		0.00E+00		1.34	ND	4.04E+03	1.34
PCB-31 24'5-TrCB	NotFnd		0.8428	-		0.00E+00		1.38	ND	4.04E+03	1.3
PCB-28/20 244'/233'-TrCB	19.71	J B C	0.8542	0.8533	-1.1	4.59E+04	1.06	1.32	1.59	4.04E+03	1.36
PCB-21/33 234/23'4'-TrCB	NotFnd	C	0.8613	-		0.00E+00		1.35	ND	4.04E+03	1.33
PCB-22 234'-TrCB	NotFnd		0.8769	-		0.00E+00		1.25	ND	4.04E+03	1.44
PCB-36 33'5-TrCB	NotFnd		0.9344	-		0.00E+00		1.36	ND	4.04E+03	1.32
PCB-39 34'5-TrCB	NotFnd		0.9476	-		0.00E+00		1.40	ND	4.04E+03	1.28
PCB-38 345-TrCB	NotFnd		0.9688	-		0.00E+00		1.27	ND	4.04E+03	1.41
PCB-35 33'4-TrCB	NotFnd		0.9858	-		0.00E+00		1.27	ND	4.04E+03	1.42
PCB-37 344'-TrCB	NotFnd		1.0008	-		0.00E+00		1.28	ND	4.04E+03	1.4
PCB-54 22'66'-TeCB	NotFnd		1.0011	-		0.00E+00		1.00	ND	2.54E+03	2.19
PCB-50/53 22'46/22'56'-TeCB	NotFnd	C	0.9053	-		0.00E+00		0.87	ND	1.92E+03	0.966
PCB-45 22'36-TeCB	NotFnd		0.9313	-		0.00E+00		0.77	ND	1.92E+03	1.09
PCB-51 22'46'-TeCB	NotFnd		0.9345	-		0.00E+00		0.87	ND	1.92E+03	0.962
PCB-46 22'36'-TeCB	NotFnd		0.9439	-		0.00E+00		0.71	ND	1.92E+03	1.17
PCB-52 22'55'-TeCB	21.27	J B	1.0010	1.0011	+0.1	4.31E+04	0.80	0.80	2.31	1.92E+03	1.04
PCB-73 23'5'6-TeCB	NotFnd		1.0068	-		0.00E+00		1.14	ND	1.92E+03	0.732
PCB-43 22'35-TeCB	NotFnd		1.0106	-		0.00E+00		0.65	ND	1.92E+03	1.29
PCB-69/49 23'46/22'45'-TeCB	NotFnd	C	1.0193	-		0.00E+00		0.99	ND	1.92E+03	0.841
PCB-48 22'45-TeCB	NotFnd		1.0317	-		0.00E+00		0.82	ND	1.92E+03	1.02
PCB-44/47/65 ...-TeCB	NotFnd	C	1.0414	-		0.00E+00		0.87	ND	1.92E+03	0.962
PCB-59/62/75 ...-TeCB	NotFnd	C	1.0537	-		0.00E+00		1.11	ND	1.92E+03	0.752
PCB-42 22'34'-TeCB	NotFnd		1.0615	-		0.00E+00		0.74	ND	1.92E+03	1.12
PCB-41 22'34-TeCB	NotFnd		1.0763	-		0.00E+00		0.72	ND	1.92E+03	1.16
PCB-71/40 23'4'6/22'33'-TeCB	NotFnd	C	1.0811	-		0.00E+00		0.81	ND	1.92E+03	1.03
PCB-64 234'6-TeCB	NotFnd		1.0900	-		0.00E+00		1.20	ND	1.92E+03	0.699
PCB-72 23'55'-TeCB	NotFnd		0.8291	-		0.00E+00		1.33	ND	2.25E+03	0.738
PCB-68 23'45'-TeCB	NotFnd		0.8375	-		0.00E+00		1.44	ND	2.25E+03	0.681
PCB-57 233'5-TeCB	NotFnd		0.8498	-		0.00E+00		1.27	ND	2.25E+03	0.768
PCB-58 233'5'-TeCB	NotFnd		0.8567	-		0.00E+00		1.32	ND	2.25E+03	0.739
PCB-67 23'45-TeCB	NotFnd		0.8617	-		0.00E+00		1.38	ND	2.25E+03	0.708
PCB-63 234'5-TeCB	NotFnd		0.8694	-		0.00E+00		1.44	ND	2.25E+03	0.677
PCB-61/70/74/76 ...-TeCB	25.34	J B C	0.8790	0.8796	+0.9	9.37E+04	0.72	1.31	3.09	2.25E+03	0.749
PCB-66 23'44'-TeCB	25.60	J B EMPC	0.8887	0.8885	-0.3	2.74E+04	0.60	1.27	0.929	2.25E+03	0.77
PCB-55 233'4-TeCB	NotFnd		0.8935	-		0.00E+00		1.27	ND	2.25E+03	0.769
PCB-56 233'4'-TeCB	NotFnd		0.9084	-		0.00E+00		1.23	ND	2.25E+03	0.799
PCB-60 2344'-TeCB	NotFnd		0.9146	-		0.00E+00		1.28	ND	2.25E+03	0.762
PCB-80 33'55'-TeCB	NotFnd		0.9269	-		0.00E+00		1.45	ND	2.25E+03	0.676
PCB-79 33'45'-TeCB	NotFnd		0.9715	-		0.00E+00		1.47	ND	2.25E+03	0.667
PCB-78 33'45-TeCB	NotFnd		0.9877	-		0.00E+00		1.23	ND	2.25E+03	0.793
PCB-104 22'466'-PeCB	NotFnd		1.0010	-		0.00E+00		1.06	ND	1.47E+03	0.784
PCB-96 22'366'-PeCB	NotFnd		1.0151	-		0.00E+00		0.85	ND	1.47E+03	0.977
PCB-103 22'45'6-PeCB	NotFnd		0.8883	-		0.00E+00		0.85	ND	1.57E+03	0.943
PCB-94 22'356'-PeCB	NotFnd		0.8951	-		0.00E+00		0.73	ND	1.57E+03	1.1

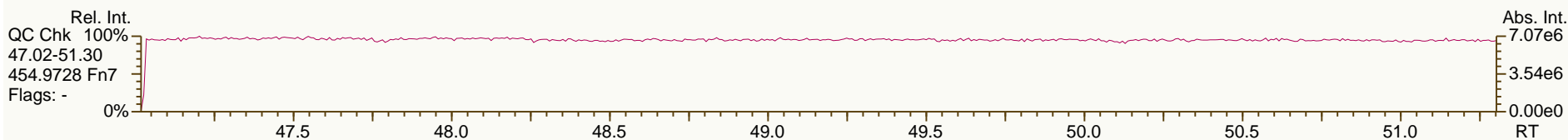
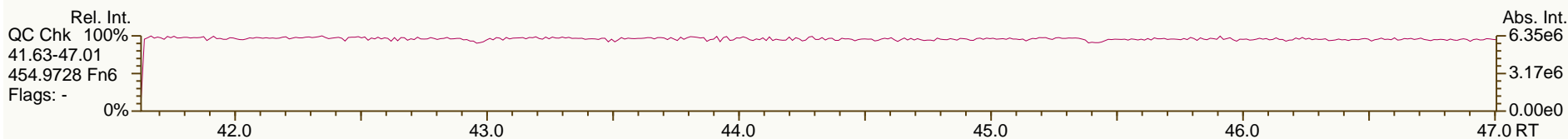
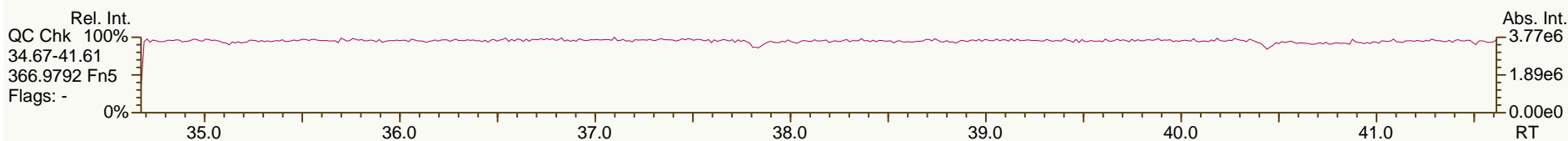
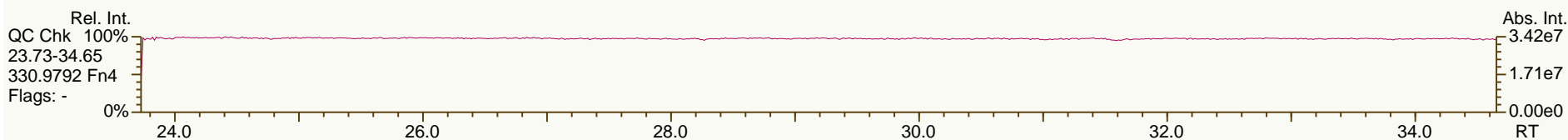
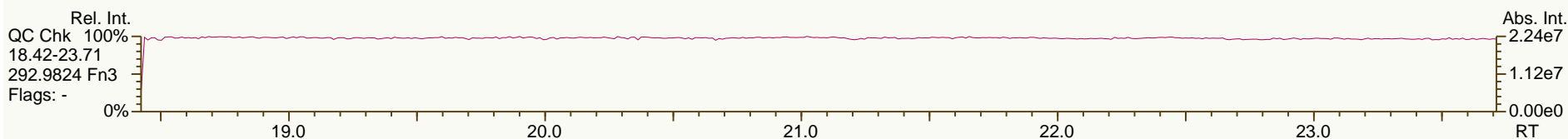
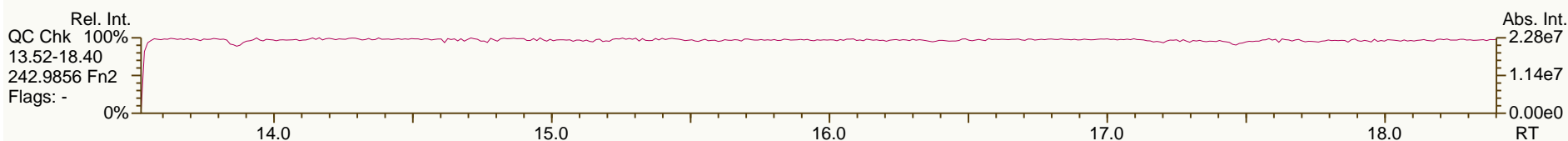
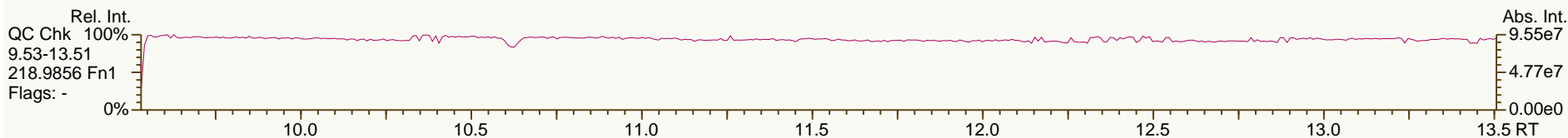
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	24.59	J B	0.9090	0.9088	-0.3	4.54E+04	0.55	0.79	2.93	1.57E+03	1.01
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9159	-		0.00E+00		0.81	ND	1.57E+03	0.989
PCB-102 22'456'-PeCB	NotFnd		0.9203	-		0.00E+00		0.96	ND	1.57E+03	0.835
PCB-98 22'34'6'-PeCB	NotFnd		0.9226	-		0.00E+00		0.67	ND	1.57E+03	1.19
PCB-88 22'346-PeCB	NotFnd		0.9329	-		0.00E+00		0.71	ND	1.57E+03	1.13
PCB-91 22'34'6-PeCB	NotFnd		0.9358	-		0.00E+00		0.90	ND	1.57E+03	0.894
PCB-84 22'33'6-PeCB	NotFnd		0.9427	-		0.00E+00		0.68	ND	1.57E+03	1.18
PCB-89 22'346'-PeCB	NotFnd		0.9576	-		0.00E+00		0.73	ND	1.57E+03	1.11
PCB-121 23'45'6-PeCB	NotFnd		0.9710	-		0.00E+00		1.07	ND	1.57E+03	0.748
PCB-92 22'355'-PeCB	NotFnd		0.9826	-		0.00E+00		0.76	ND	1.57E+03	1.06
PCB-113/90/101 ...-PeCB	27.07	J B EMPC C	1.0000	1.0007	+1.1	6.78E+04	0.75	0.87	3.97	1.57E+03	0.919
PCB-83 22'33'5-PeCB	NotFnd		1.0155	-		0.00E+00		0.67	ND	1.57E+03	1.2
PCB-99 22'44'5-PeCB	NotFnd		1.0188	-		0.00E+00		0.83	ND	1.57E+03	0.969
PCB-112 233'56-PeCB	NotFnd		1.0225	-		0.00E+00		1.04	ND	1.57E+03	0.771
PCB-108/119/86/97/125...-PeCB	NotFnd	C	1.0349	-		0.00E+00		0.90	ND	1.57E+03	0.891
PCB-117 234'56-PeCB	NotFnd		1.0541	-		0.00E+00		0.95	ND	1.57E+03	0.842
PCB-116/85 23456/22'344'-PeCB	NotFnd	C	1.0568	-		0.00E+00		0.92	ND	1.57E+03	0.875
PCB-110 233'4'6-PeCB	28.74	J B	1.0620	1.0622	+0.3	1.12E+05	0.66	0.95	6.07	1.57E+03	0.849
PCB-115 2344'6-PeCB	NotFnd		1.0645	-		0.00E+00		1.09	ND	1.57E+03	0.735
PCB-82 22'33'4-PeCB	NotFnd		1.0719	-		0.00E+00		0.65	ND	1.57E+03	1.24
PCB-111 233'55'-PeCB	NotFnd		1.0846	-		0.00E+00		1.09	ND	1.57E+03	0.738
PCB-120 23'455'-PeCB	NotFnd		1.0989	-		0.00E+00		1.08	ND	1.57E+03	0.742
PCB-107/124 ...-PeCB	NotFnd	C	0.9909	-		0.00E+00		1.01	ND	1.57E+03	0.798
PCB-109 233'46-PeCB	NotFnd		0.9974	-		0.00E+00		1.09	ND	1.57E+03	0.737
PCB-106 233'45-PeCB	NotFnd		1.0039	-		0.00E+00		0.97	ND	1.57E+03	0.831
PCB-122 233'4'5'-PeCB	NotFnd		1.0099	-		0.00E+00		0.89	ND	1.57E+03	0.857
PCB-127 33'455'-PeCB	NotFnd		1.0394	-		0.00E+00		0.93	ND	1.57E+03	0.847
PCB-155 22'44'66'-HxCB	NotFnd		1.0008	-		0.00E+00		1.12	ND	1.38E+03	0.577
PCB-152 22'3566'-HxCB	NotFnd		1.0068	-		0.00E+00		1.04	ND	1.38E+03	0.622
PCB-150 22'34'66'-HxCB	NotFnd		1.0121	-		0.00E+00		1.04	ND	1.38E+03	0.624
PCB-136 22'33'66'-HxCB	NotFnd		1.0233	-		0.00E+00		0.95	ND	1.38E+03	0.68
PCB-145 22'3466'-HxCB	NotFnd		1.0327	-		0.00E+00		0.98	ND	1.38E+03	0.659
PCB-148 22'34'56'-HxCB	NotFnd		1.0804	-		0.00E+00		1.02	ND	1.38E+03	0.698
PCB-151/135 ...-HxCB	29.52	J C	1.0996	1.0994	-0.4	4.56E+04	1.20	0.99	2.41	1.38E+03	0.722
PCB-154 22'44'56'-HxCB	NotFnd		1.1069	-		0.00E+00		1.12	ND	1.38E+03	0.635
PCB-144 22'345'6-HxCB	NotFnd		1.1166	-		0.00E+00		1.02	ND	1.38E+03	0.702
PCB-147/149 ...-HxCB	30.29	J B C	1.1278	1.1280	+0.4	1.26E+05	1.23	1.04	6.33	1.38E+03	0.688
PCB-134 22'33'56-HxCB	NotFnd		1.1341	-		0.00E+00		0.77	ND	1.38E+03	0.921
PCB-143 22'3456'-HxCB	NotFnd		1.1370	-		0.00E+00		0.93	ND	1.38E+03	0.768
PCB-139/140 ...-HxCB	NotFnd	C	1.1465	-		0.00E+00		1.05	ND	1.38E+03	0.68
PCB-131 22'33'46-HxCB	NotFnd		1.1527	-		0.00E+00		0.91	ND	1.38E+03	0.788
PCB-142 22'3456-HxCB	NotFnd		1.1575	-		0.00E+00		0.93	ND	1.38E+03	0.769
PCB-132 22'33'46'-HxCB	31.34	J	1.1670	1.1672	+0.4	3.11E+04	1.33	0.93	1.73	1.38E+03	0.763
PCB-133 22'33'55'-HxCB	NotFnd		1.1831	-		0.00E+00		0.97	ND	1.38E+03	0.735
PCB-165 233'55'6-HxCB	NotFnd		0.9485	-		0.00E+00		1.18	ND	1.38E+03	0.604
PCB-146 22'34'55'-HxCB	NotFnd		0.9546	-		0.00E+00		1.15	ND	1.38E+03	0.623
PCB-161 233'45'6-HxCB	NotFnd		0.9579	-		0.00E+00		1.31	ND	1.38E+03	0.545
PCB-153/168 ...-HxCB	32.84	J B C	0.9704	0.9697	-1.4	1.54E+05	1.12	1.26	6.39	1.38E+03	0.568

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	33.01	J	0.9746	0.9748	+0.4	2.56E+04	1.17	1.01	1.32	1.38E+03	0.708
PCB-130 22'33'45'-HxCB	NotFnd		0.9847	-		0.00E+00		0.88	ND	1.38E+03	0.808
PCB-137 22'344'5'-HxCB	NotFnd		0.9903	-		0.00E+00		1.09	ND	1.38E+03	0.651
PCB-164 233'4'5'6'-HxCB	NotFnd		0.9931	-		0.00E+00		1.25	ND	1.38E+03	0.572
PCB-163/138/129 ...-HxCB	33.89	J B C	1.0013	1.0008	-1.0	1.54E+05	1.27	1.07	7.5	1.38E+03	0.665
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.21	ND	1.38E+03	0.589
PCB-158 233'44'6'-HxCB	NotFnd		1.0104	-		0.00E+00		1.39	ND	1.38E+03	0.513
PCB-128/166 ...-HxCB	NotFnd	C	0.9598	-		0.00E+00		0.88	ND	1.37E+03	0.827
PCB-159 233'455'-HxCB	NotFnd		0.9830	-		0.00E+00		1.04	ND	1.37E+03	0.7
PCB-162 233'4'55'-HxCB	NotFnd		0.9897	-		0.00E+00		1.08	ND	1.37E+03	0.676
PCB-188 22'34'566'-HpCB	NotFnd		1.0007	-		0.00E+00		0.97	ND	1.82E+03	0.597
PCB-179 22'33'566'-HpCB	31.98	J	1.0096	1.0095	-0.2	3.50E+04	1.08	0.88	1.29	1.82E+03	0.656
PCB-184 22'344'66'-HpCB	NotFnd		1.0236	-		0.00E+00		0.85	ND	1.82E+03	0.677
PCB-176 22'33'466'-HpCB	NotFnd		1.0330	-		0.00E+00		0.97	ND	1.82E+03	0.598
PCB-186 22'34566'-HpCB	NotFnd		1.0450	-		0.00E+00		0.89	ND	1.82E+03	0.647
PCB-178 22'33'55'6'-HpCB	NotFnd		1.0818	-		0.00E+00		0.67	ND	1.82E+03	0.862
PCB-175 22'33'45'6'-HpCB	NotFnd		1.0986	-		0.00E+00		0.97	ND	1.49E+03	0.877
PCB-187 22'34'55'6'-HpCB	35.04	J B	1.1058	1.1060	+0.4	8.13E+04	1.10	1.02	4.58	1.49E+03	0.836
PCB-182 22'344'56'-HpCB	NotFnd		1.1112	-		0.00E+00		1.05	ND	1.49E+03	0.811
PCB-183 22'344'5'6'-HpCB	35.55	J	1.1219	1.1221	+0.4	3.38E+04	0.96	1.03	1.88	1.49E+03	0.829
PCB-185 22'3455'6'-HpCB	NotFnd		1.1245	-		0.00E+00		1.02	ND	1.49E+03	0.838
PCB-174 22'33'456'-HpCB	35.75	J B EMPC	1.1283	1.1284	+0.2	6.13E+04	0.79	0.87	4.04	1.49E+03	0.979
PCB-177 22'33'45'6'-HpCB	36.11	J EMPC	1.1398	1.1400	+0.4	2.27E+04	1.41	0.87	1.49	1.49E+03	0.978
PCB-181 22'344'56'-HpCB	NotFnd		1.1503	-		0.00E+00		1.00	ND	1.49E+03	0.857
PCB-171/173 ...-HpCB	NotFnd	C	1.1561	-		0.00E+00		0.88	ND	1.49E+03	0.976
PCB-172 22'33'455'-HpCB	NotFnd		0.9004	-		0.00E+00		0.90	ND	1.49E+03	0.946
PCB-192 233'455'6'-HpCB	NotFnd		0.9060	-		0.00E+00		1.16	ND	1.49E+03	0.737
PCB-180/193 ...-HpCB	38.56	J B C	0.9127	0.9131	+0.9	1.65E+05	1.15	1.10	8.63	1.49E+03	0.777
PCB-191 233'44'5'6'-HpCB	NotFnd		0.9203	-		0.00E+00		1.22	ND	1.49E+03	0.702
PCB-170 22'33'44'5'-HpCB	39.62	J B EMPC	0.9383	0.9382	-0.2	4.52E+04	1.21	0.99	3.07	1.49E+03	1.01
PCB-190 233'44'56'-HpCB	NotFnd		0.9488	-		0.00E+00		1.35	ND	1.49E+03	0.737
PCB-202 22'33'55'66'-OcCB	NotFnd		1.0006	-		0.00E+00		0.83	ND	1.23E+03	0.61
PCB-201 22'33'45'66'-OcCB	NotFnd		1.0220	-		0.00E+00		0.90	ND	1.23E+03	0.566
PCB-204 22'344'566'-OcCB	NotFnd		1.0376	-		0.00E+00		0.84	ND	1.23E+03	0.603
PCB-197 22'33'44'66'-OcCB	NotFnd		1.0429	-		0.00E+00		0.93	ND	1.23E+03	0.547
PCB-200 22'33'4566'-OcCB	NotFnd		1.0453	-		0.00E+00		0.86	ND	1.23E+03	0.591
PCB-198/199 ...-OcCB	40.21	J EMPC C	1.1101	1.1108	+1.7	4.13E+04	0.65	0.65	2.57	1.23E+03	0.776
PCB-196 22'33'44'56'-OcCB	40.76	J	1.1258	1.1259	+0.2	3.36E+04	0.98	0.67	2.04	1.23E+03	0.755
PCB-203 22'344'55'6'-OcCB	40.93	J	1.1303	1.1305	+0.5	4.02E+04	0.81	0.69	2.38	1.23E+03	0.738
PCB-195 22'33'44'56'-OcCB	NotFnd		0.9472	-		0.00E+00		0.83	ND	1.19E+03	1.12
PCB-194 22'33'44'55'-OcCB	44.01	J	0.9915	0.9915	0	3.51E+04	0.83	0.89	2.94	1.19E+03	1.04
PCB-205 233'44'55'6'-OcCB	NotFnd		1.0004	-		0.00E+00		1.08	ND	1.19E+03	0.861
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		0.99	ND	1.41E+03	0.913
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0191	-		0.00E+00		1.01	ND	1.41E+03	0.901
PCB-206 22'33'44'55'6'-NoCB	NotFnd		1.0004	-		0.00E+00		0.83	ND	1.41E+03	1.29

SGS-AP ID: A5942_11361_PCB_001-RJ
Instr: AutoSpec-Ultima MM4

Sample ID: JW-RB-130913
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

Acq: 14-Oct-2013 19:42:16
User: CTW Datafile: 131014S08



SGS-AP ID: A5942_11361_PCB_001-RJ

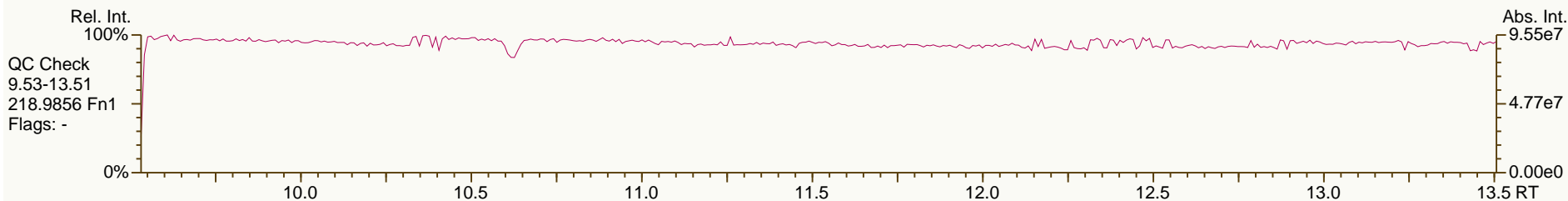
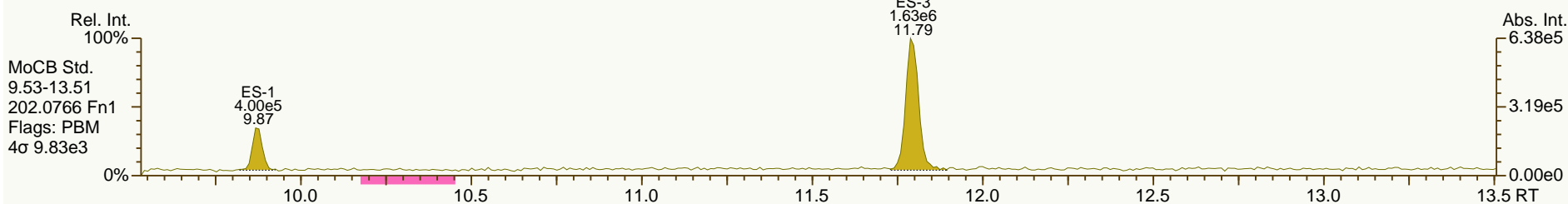
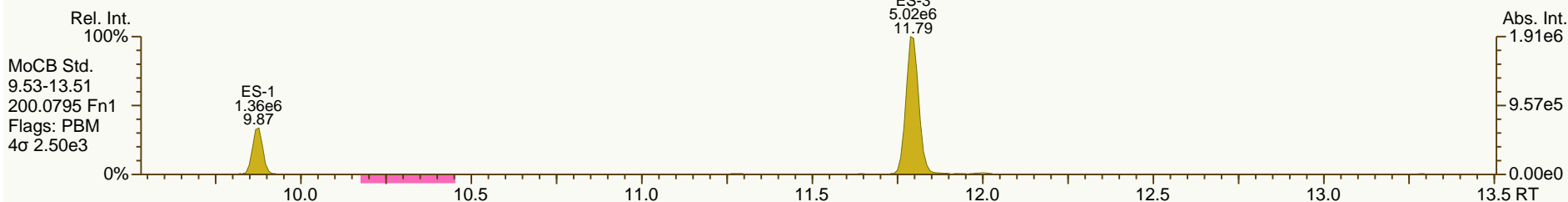
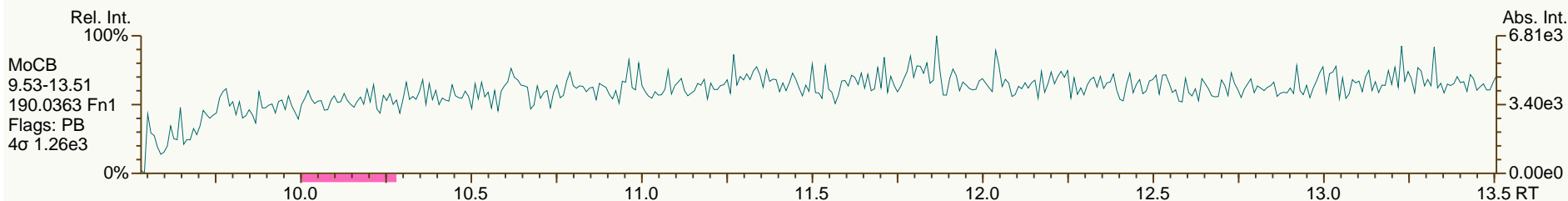
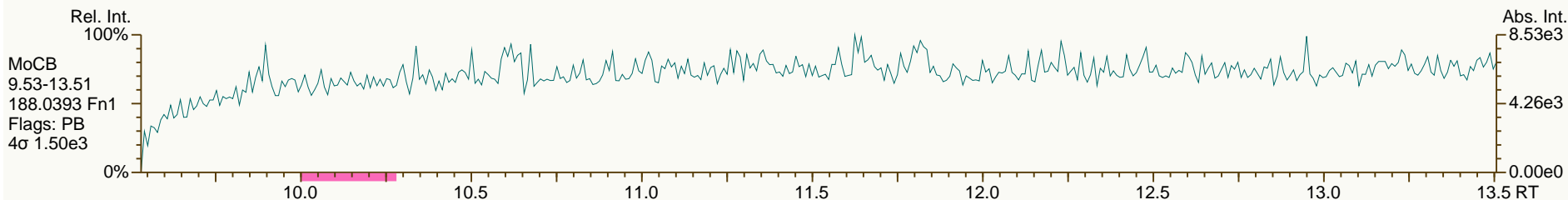
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Instr: AutoSpec-Ultima MM4

VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

User: CTW Datafile: 131014S08



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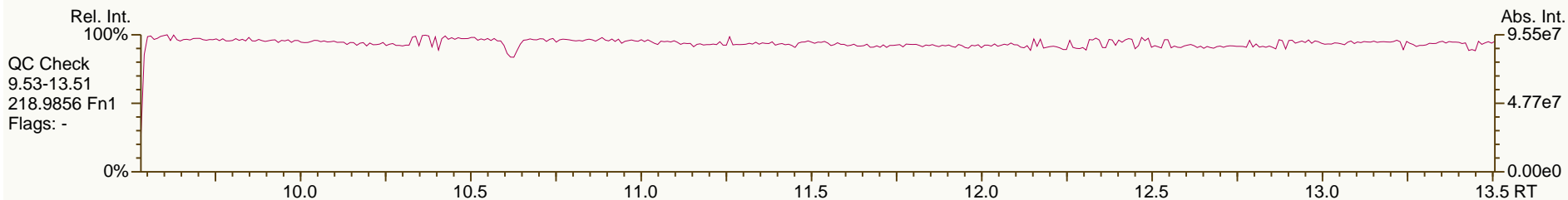
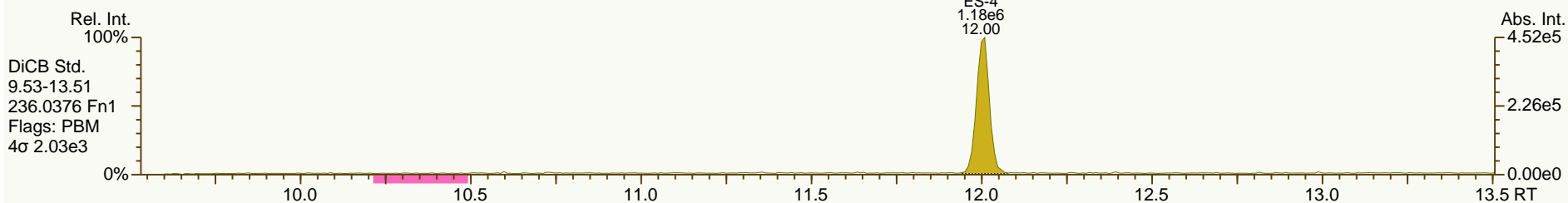
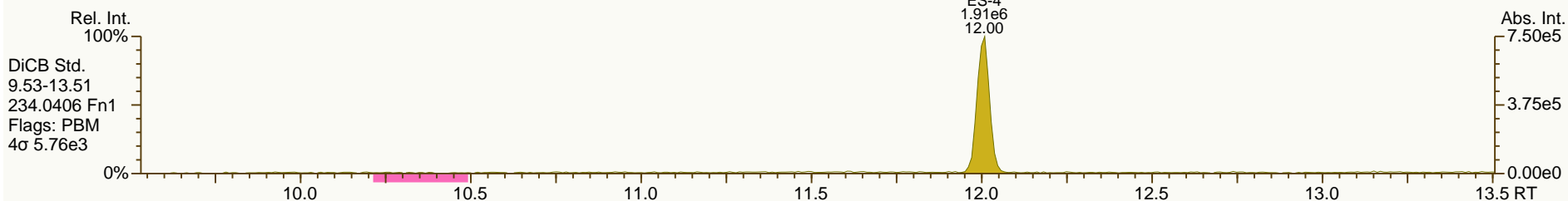
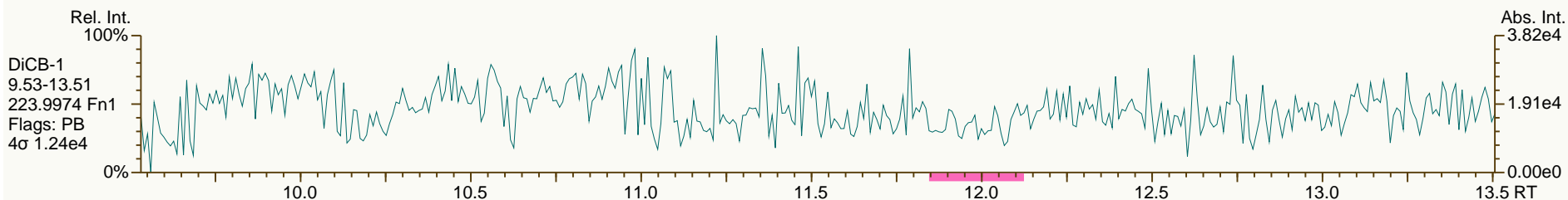
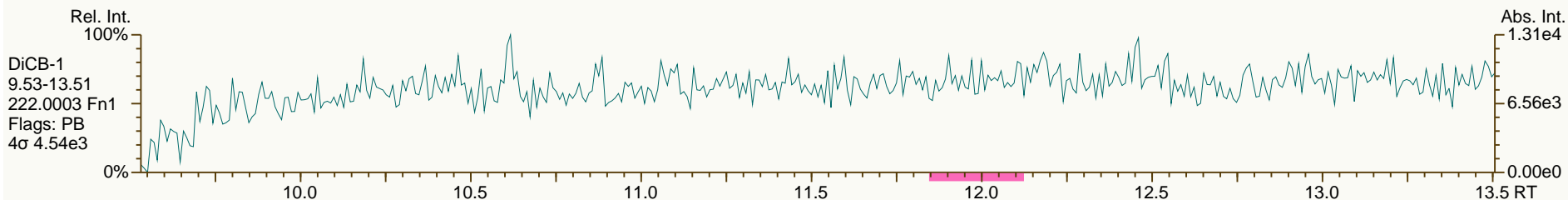
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Instr: AutoSpec-Ultima MM4

VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

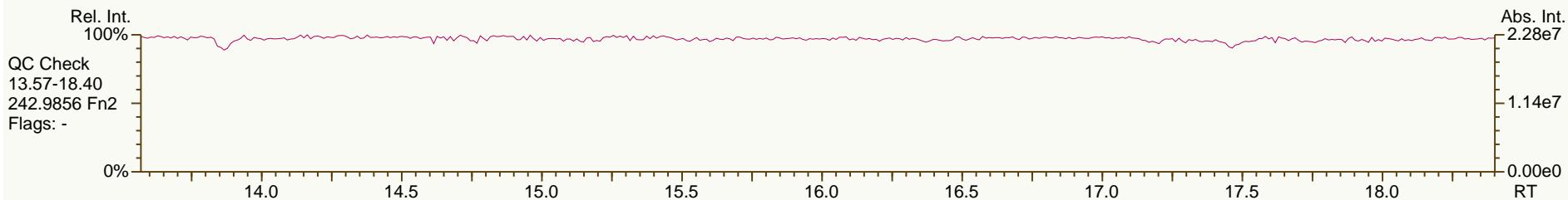
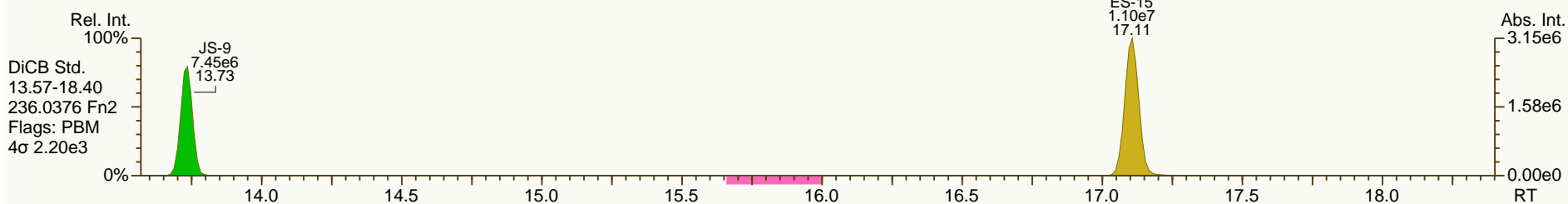
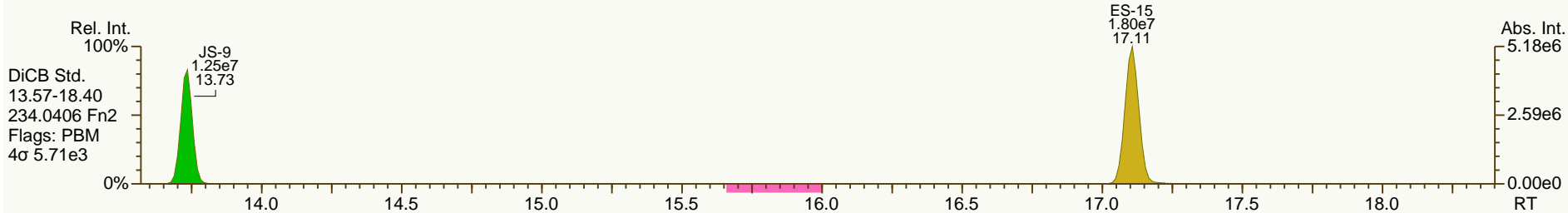
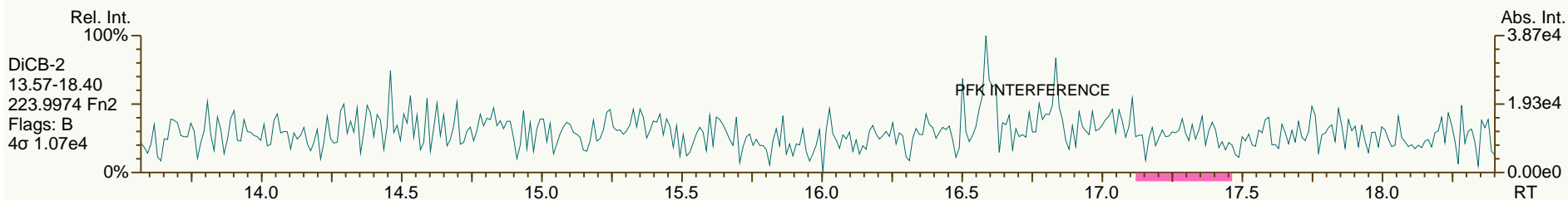
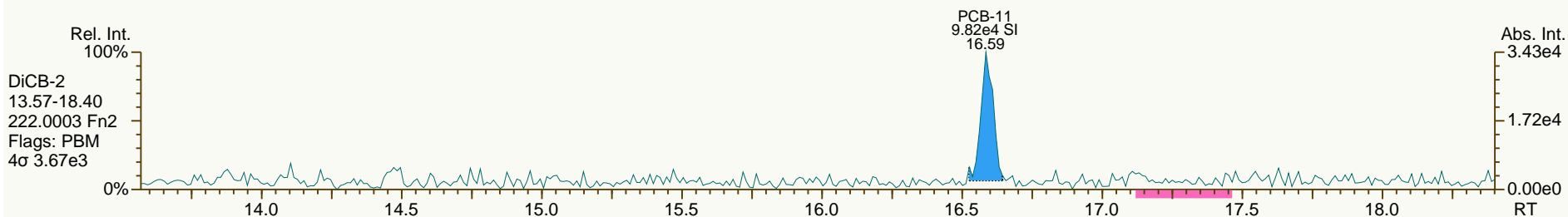
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SGS-AP ID: A5942_11361_PCB_001-RJ
Instr: AutoSpec-Ultima MM4

Sample ID: JW-RB-130913
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

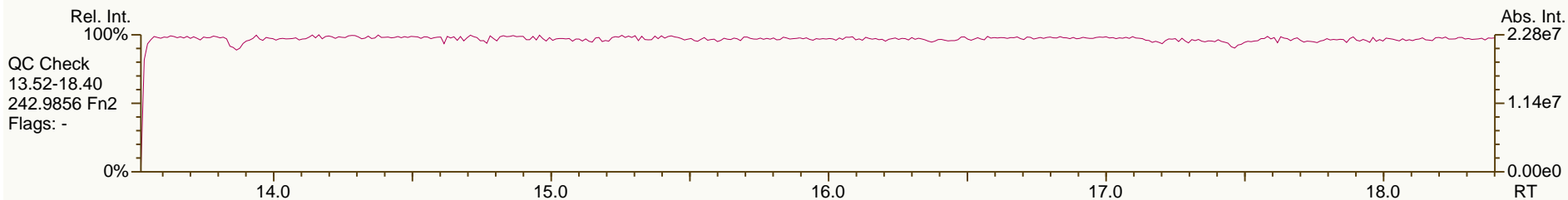
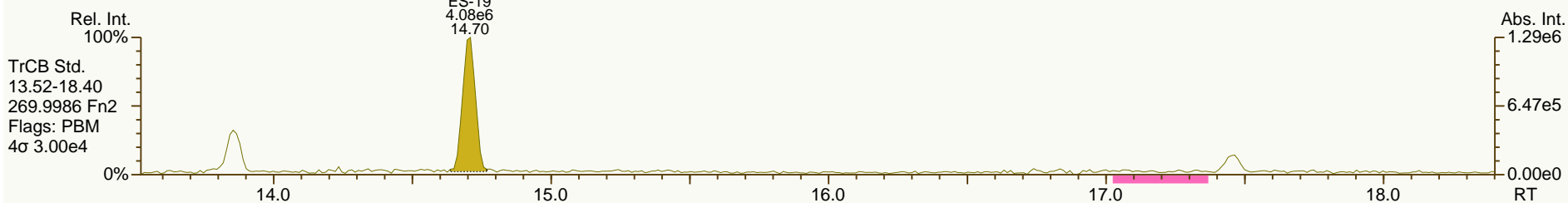
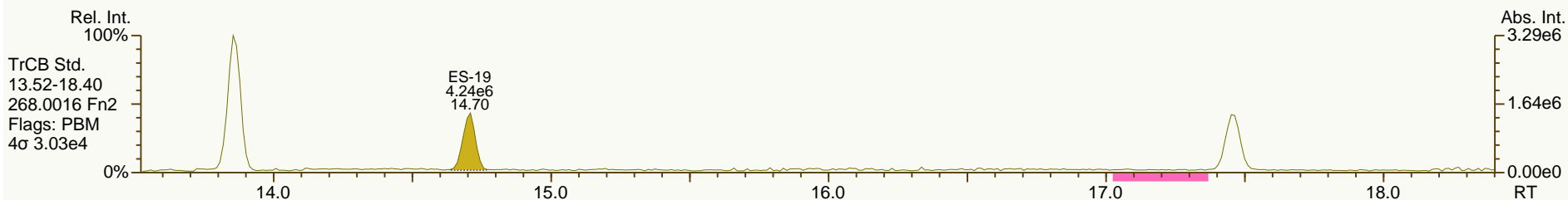
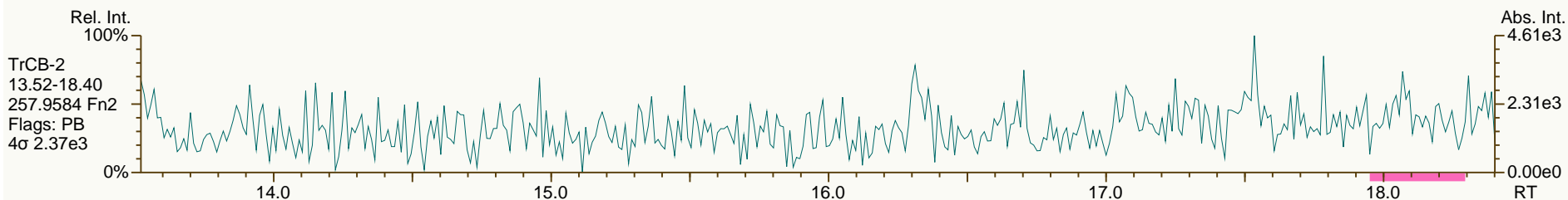
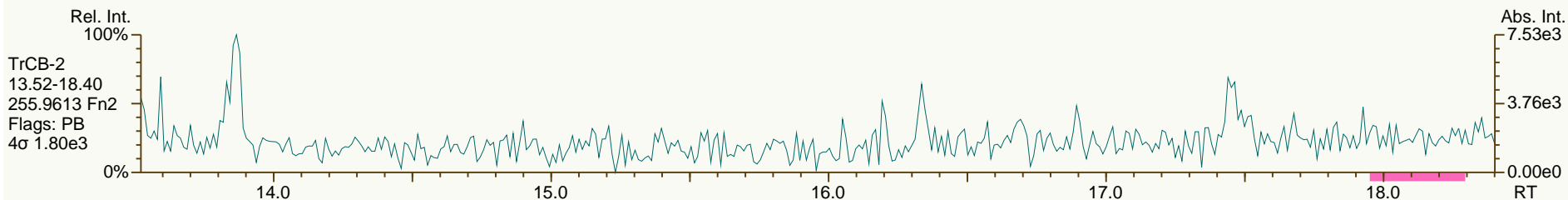
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Sample ID: JW-RB-130913
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SGS-AP ID: A5942_11361_PCB_001-RJ

Sample ID: JW-RB-130913

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VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

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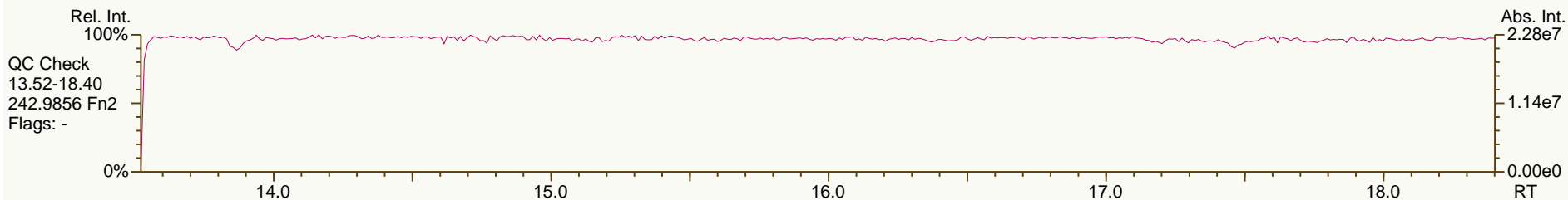
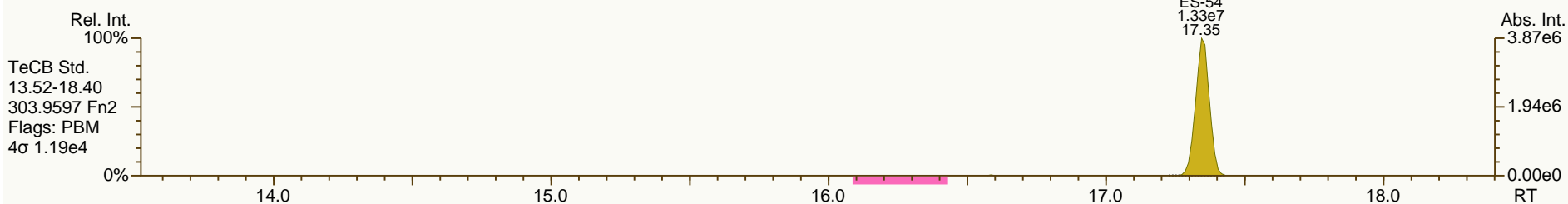
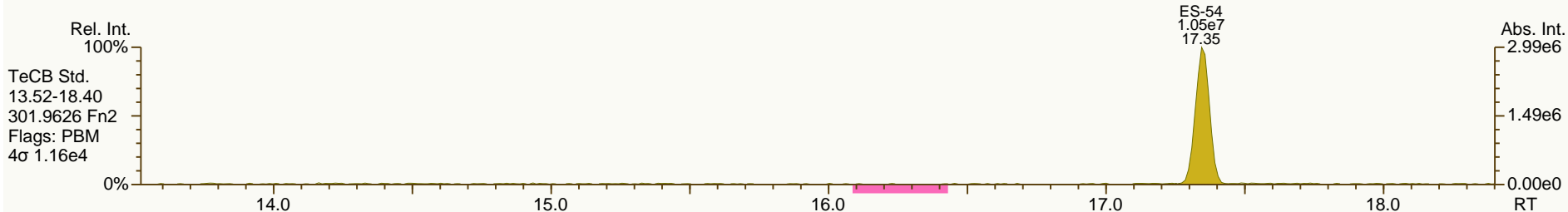
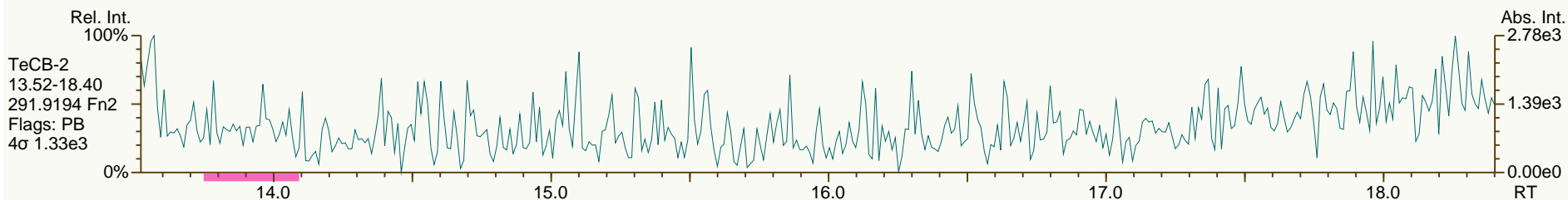
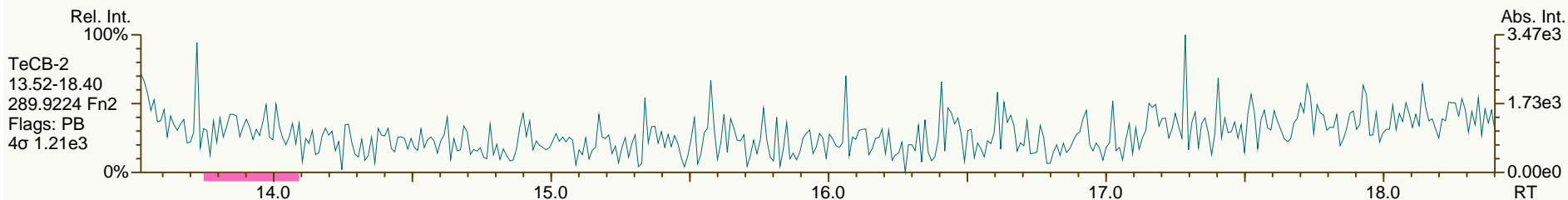
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Instr: AutoSpec-Ultima MM4

VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

User: CTW Datafile: 131014S08

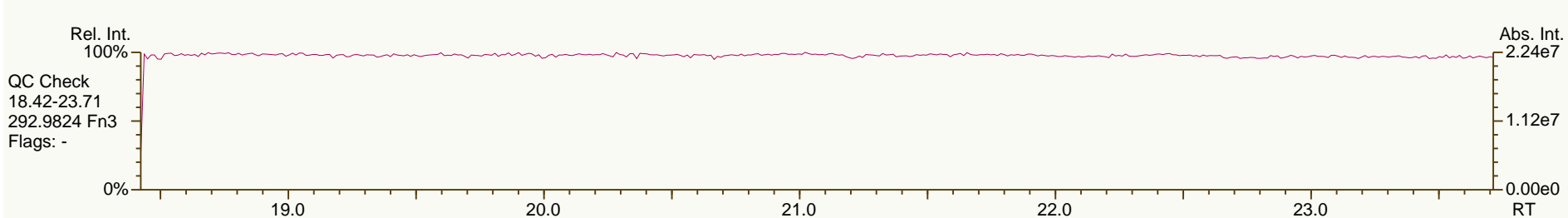
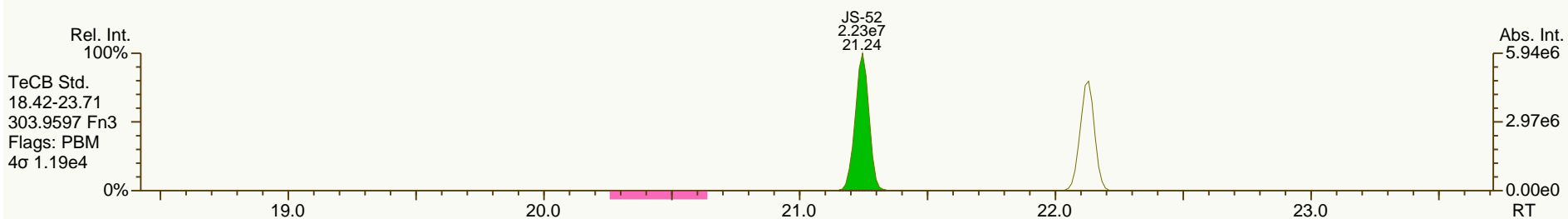
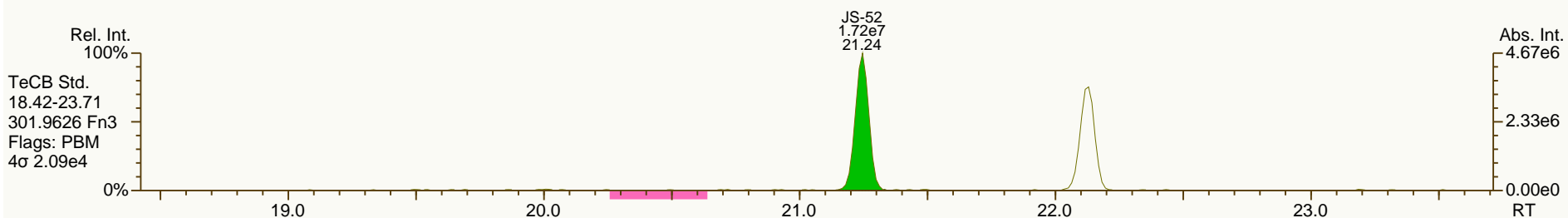
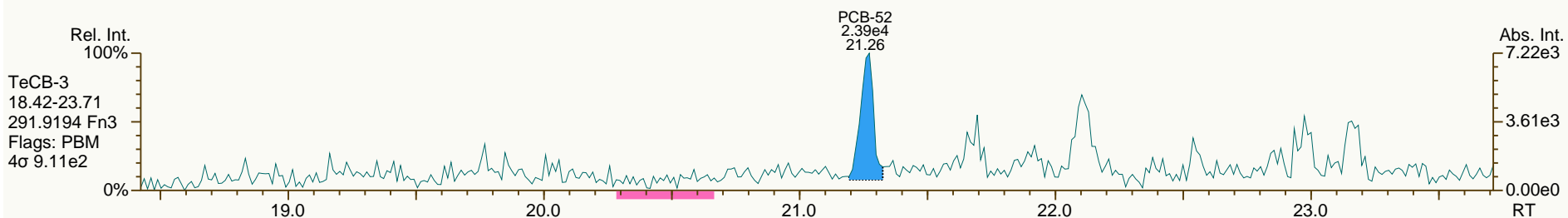
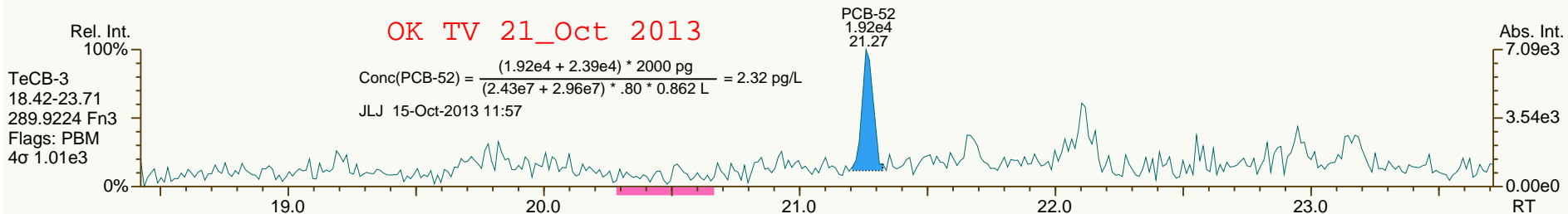


SGS-AP ID: A5942_11361_PCB_001-RJ
 Instr: AutoSpec-Ultima MM4

Sample ID: JW-RB-130913
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

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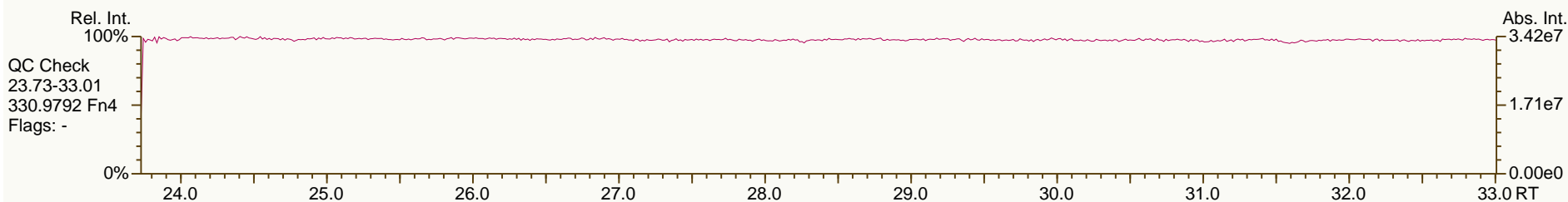
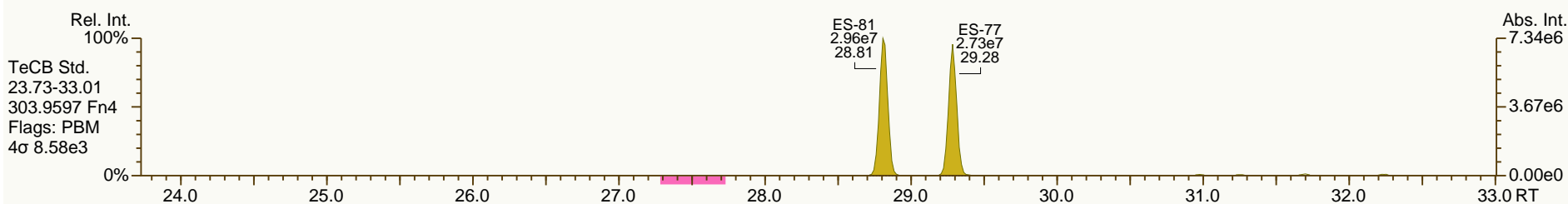
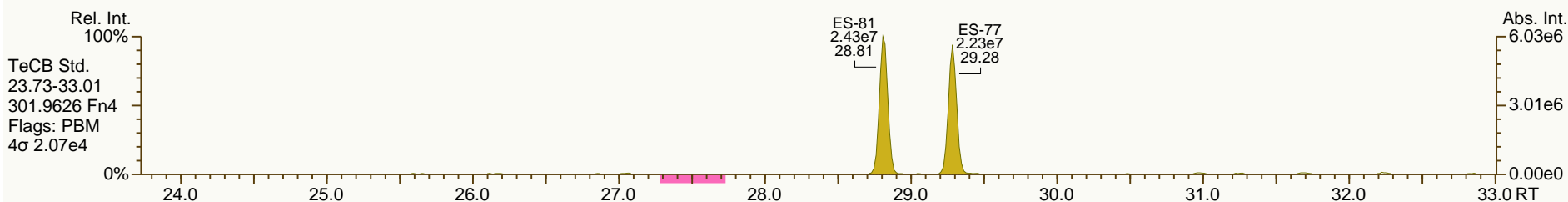
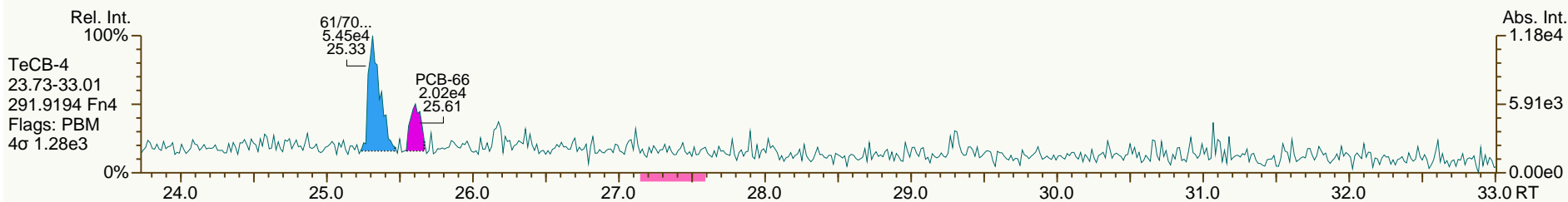
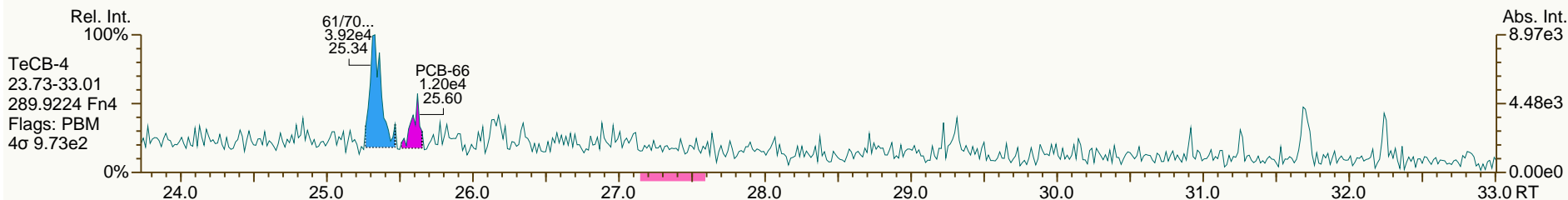
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Instr: AutoSpec-Ultima MM4

VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

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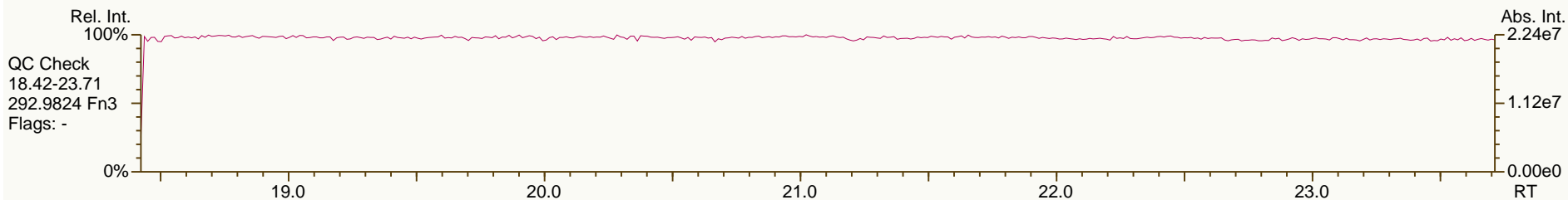
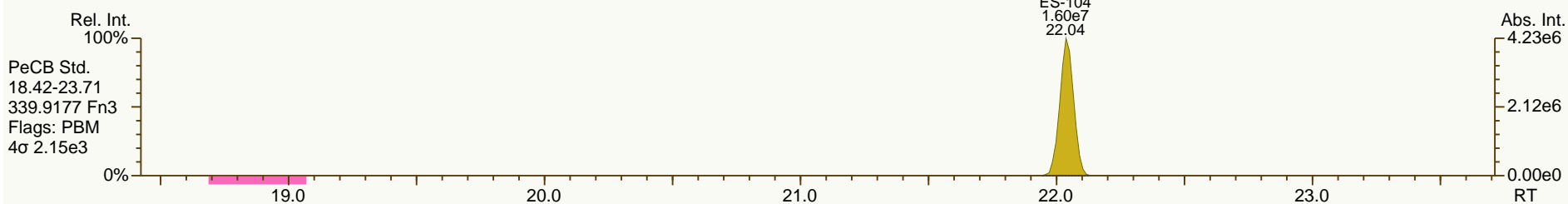
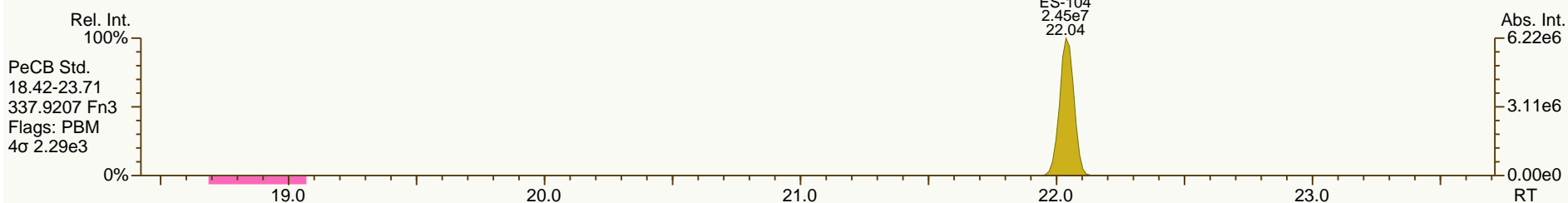
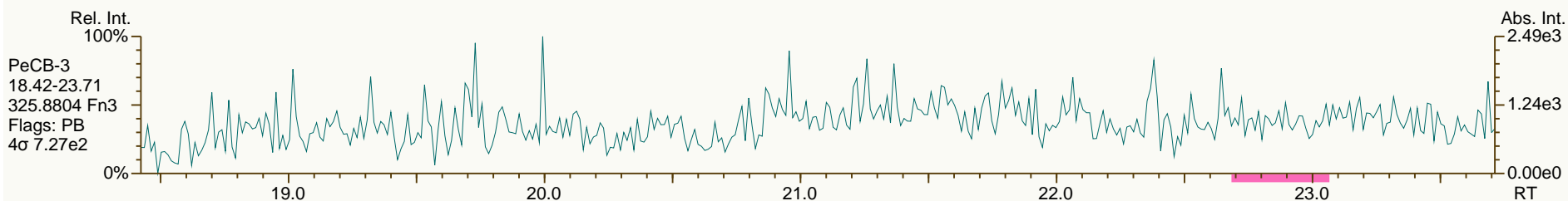
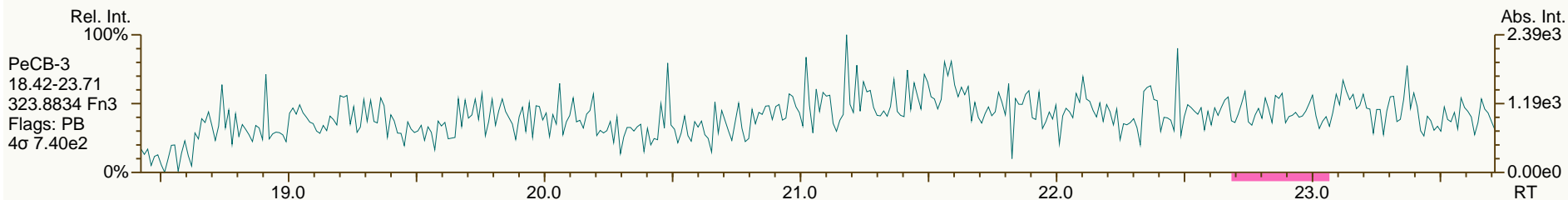
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Instr: AutoSpec-Ultima MM4

VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

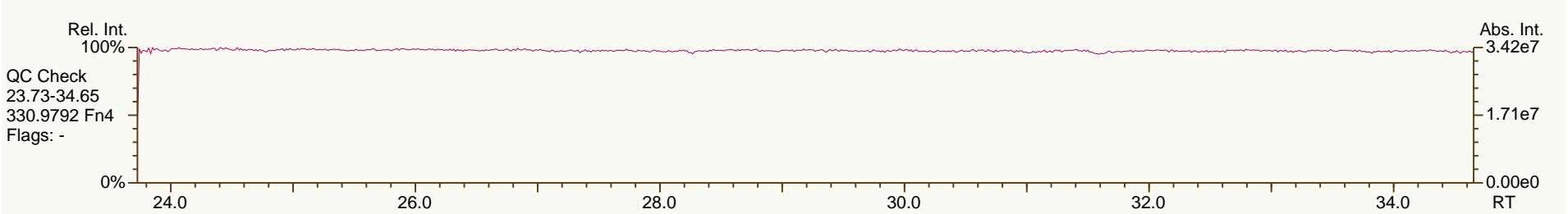
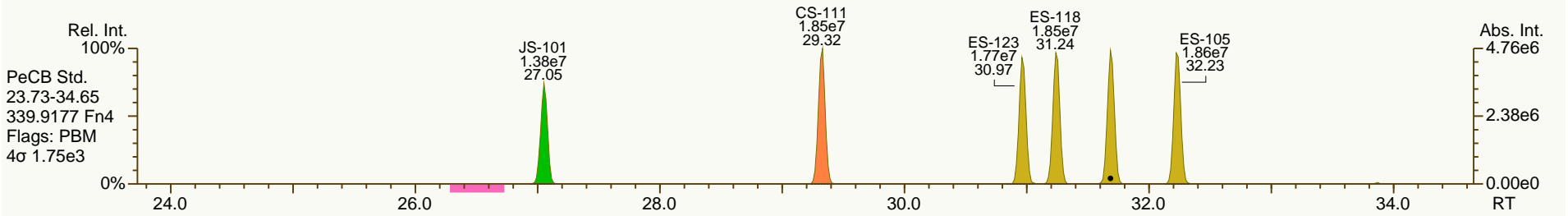
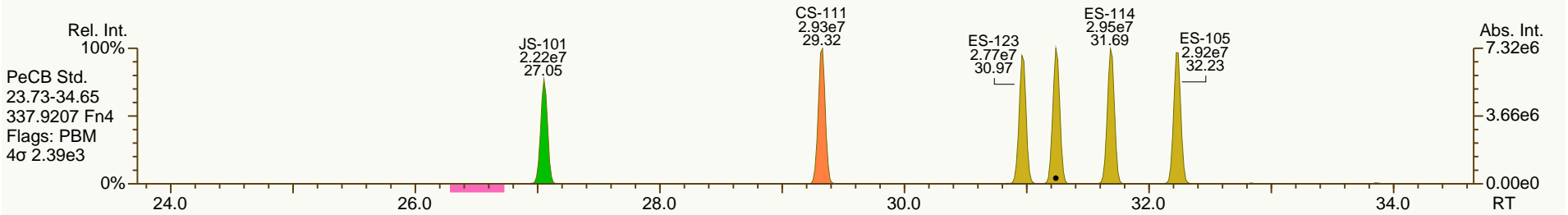
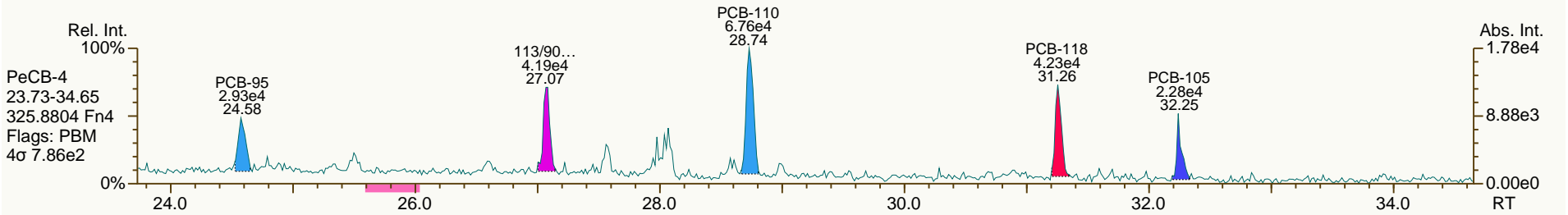
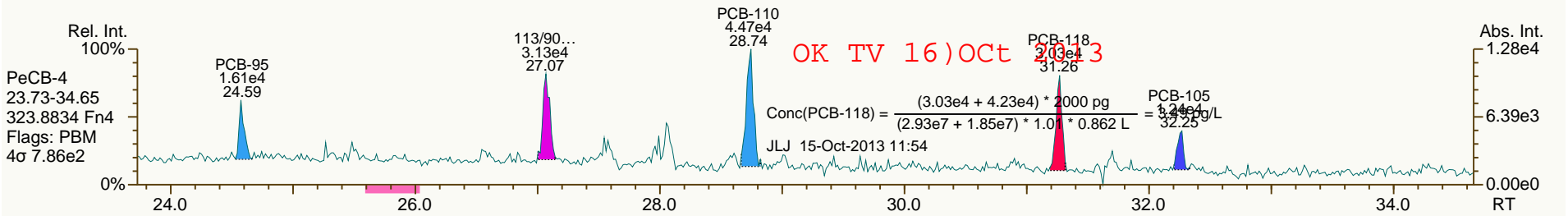
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 Instr: AutoSpec-Ultima MM4

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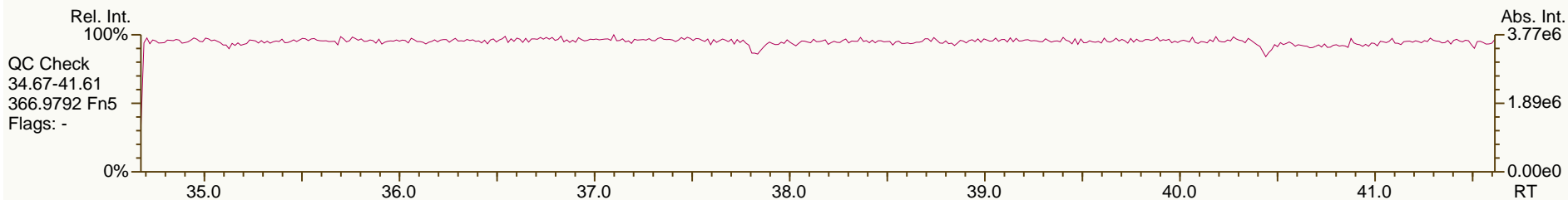
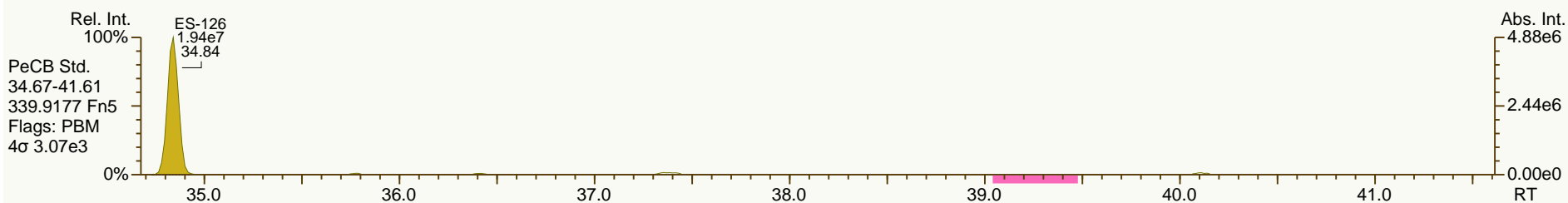
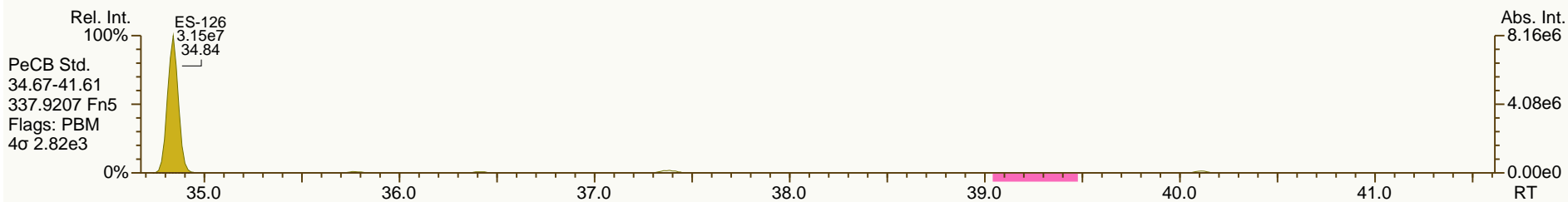
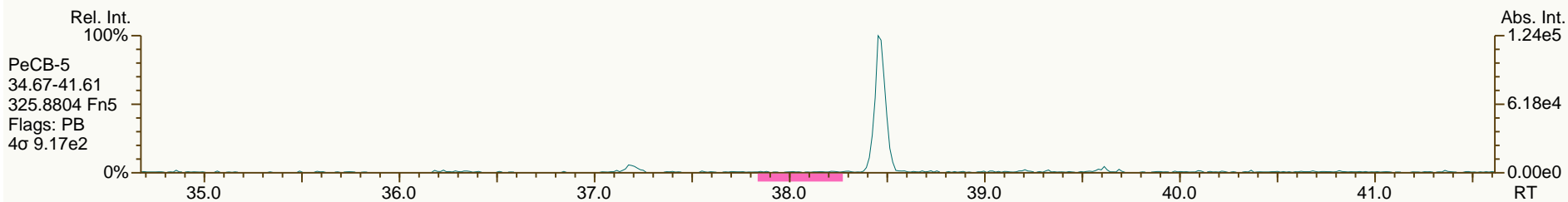
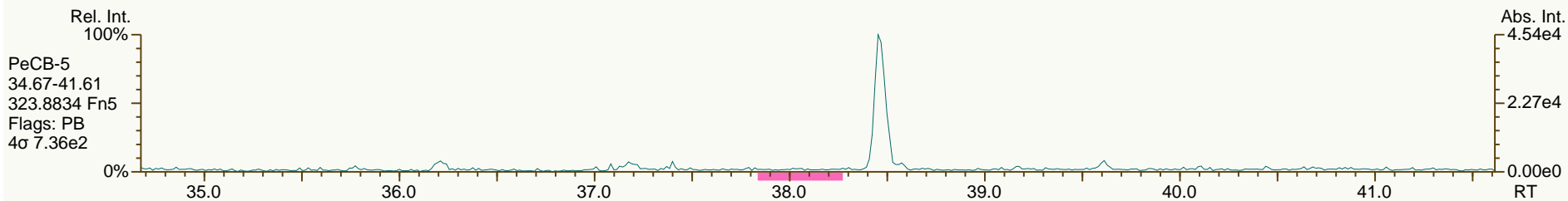
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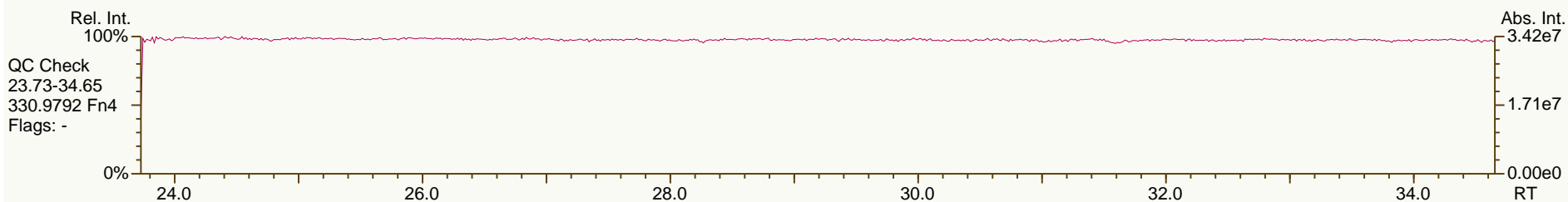
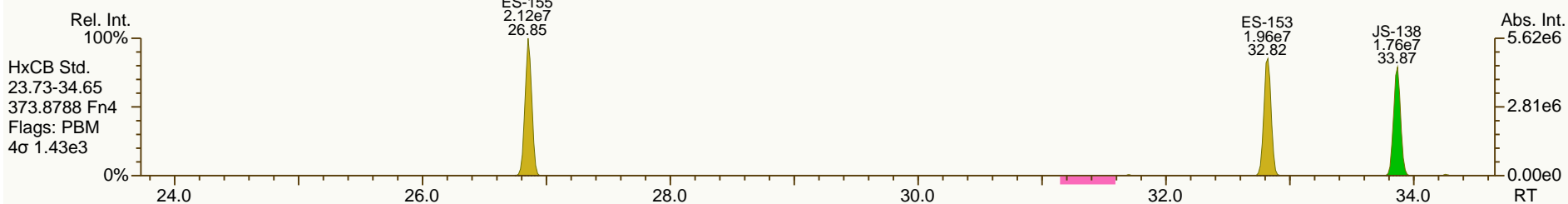
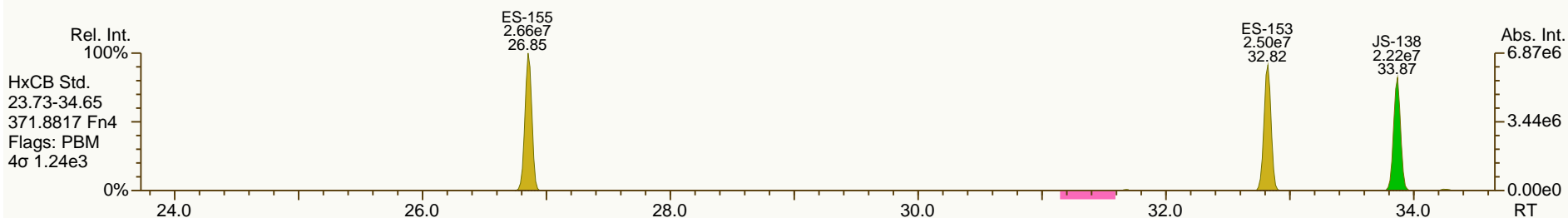
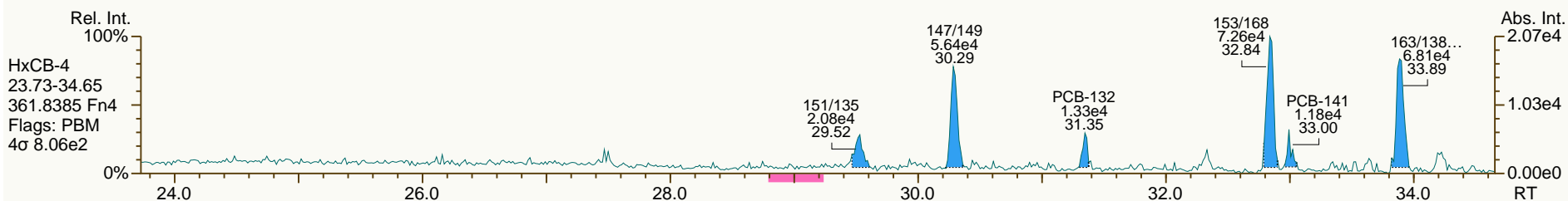
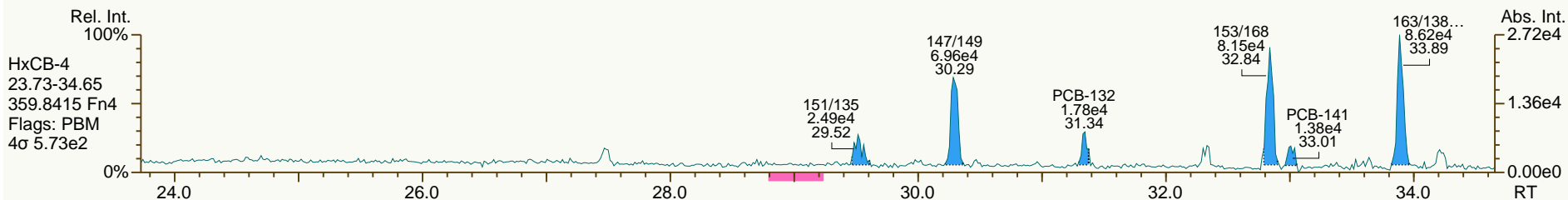
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User: CTW Datafile: 131014S08



SGS-AP ID: A5942_11361_PCB_001-RJ

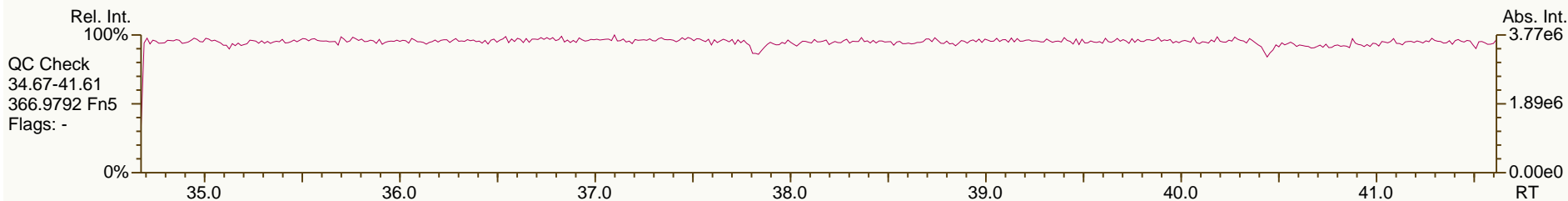
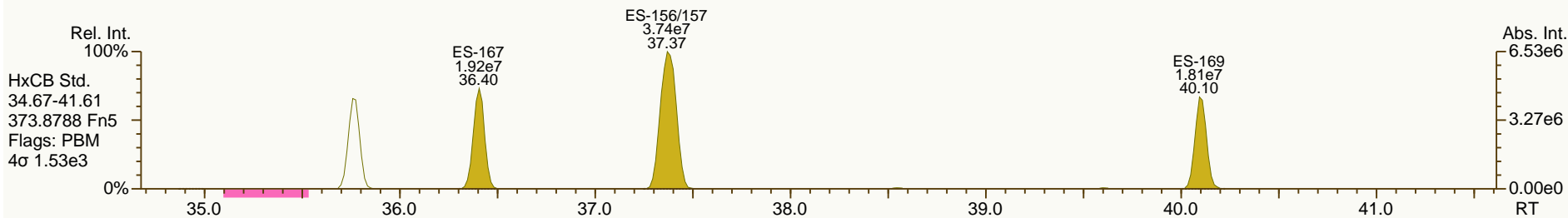
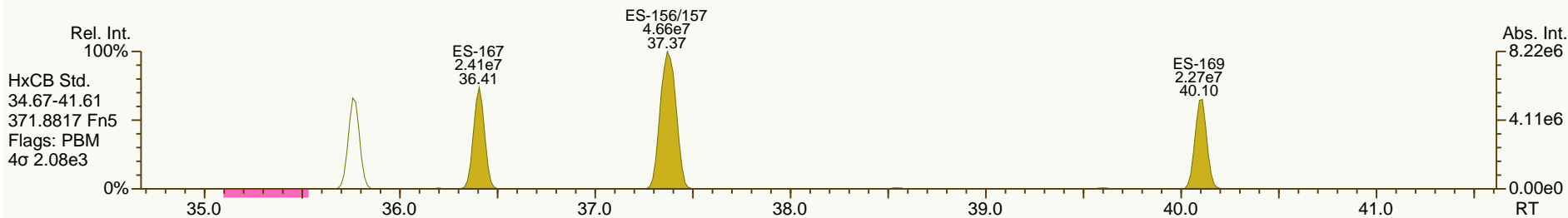
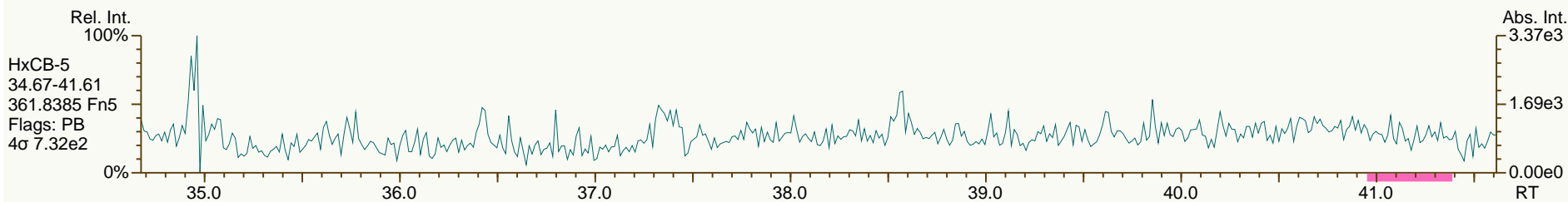
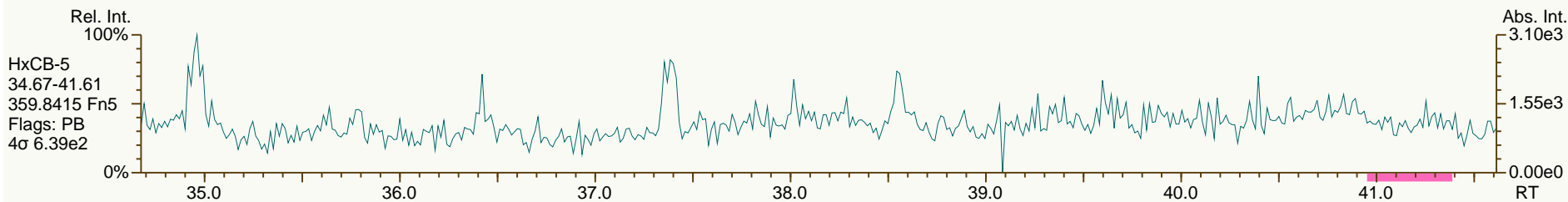
Sample ID: JW-RB-130913

Acq: 14-Oct-2013 19:42:16

Instr: AutoSpec-Ultima MM4

VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

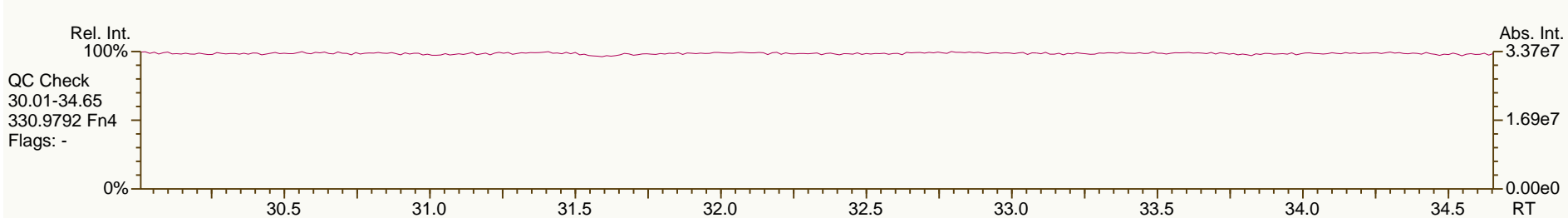
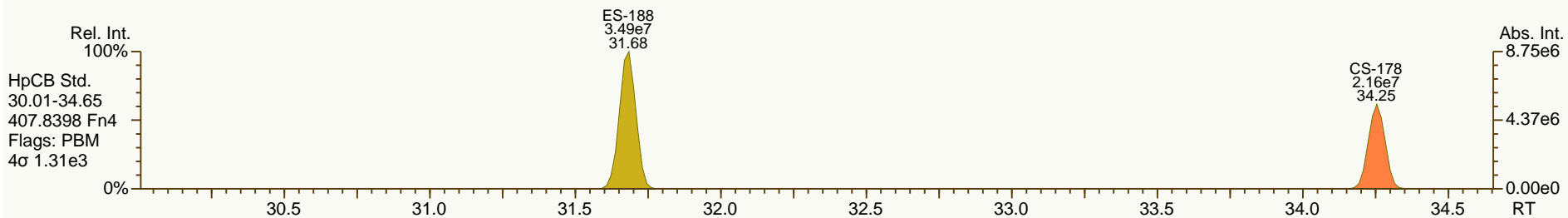
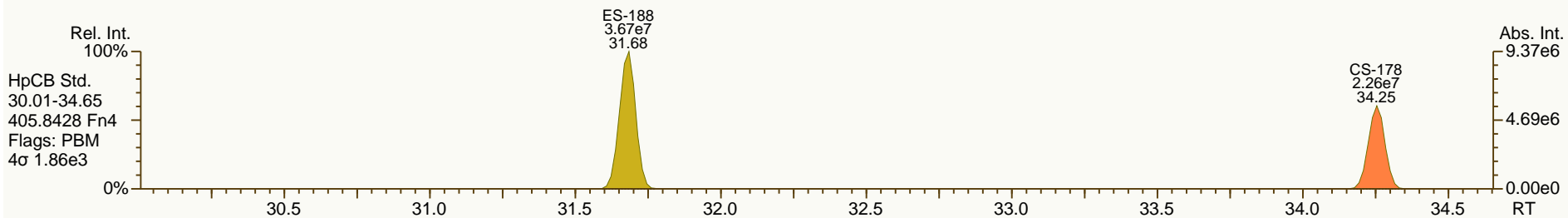
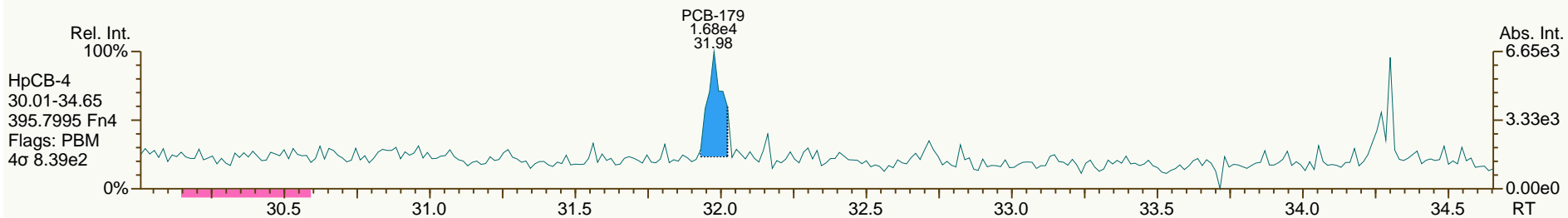
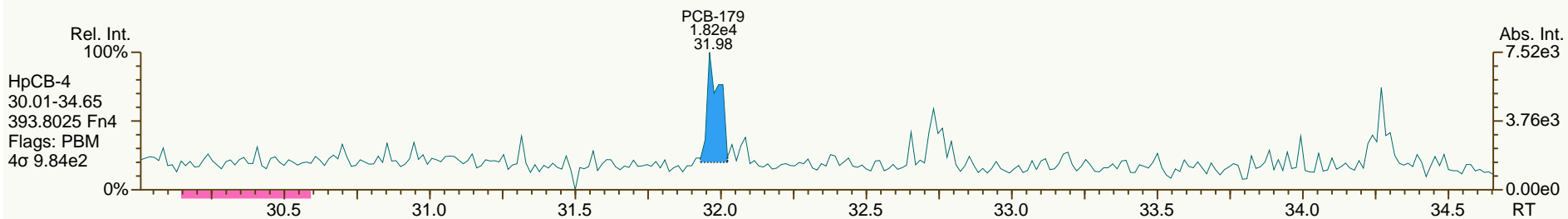
User: CTW Datafile: 131014S08



SGS-AP ID: A5942_11361_PCB_001-RJ
 Instr: AutoSpec-Ultima MM4

Sample ID: JW-RB-130913
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

Acq: 14-Oct-2013 19:42:16
 User: CTW Datafile: 131014S08



SGS-AP ID: A5942_11361_PCB_001-RJ
Instr: AutoSpec-Ultima MM4

Sample ID: JW-RB-130913
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

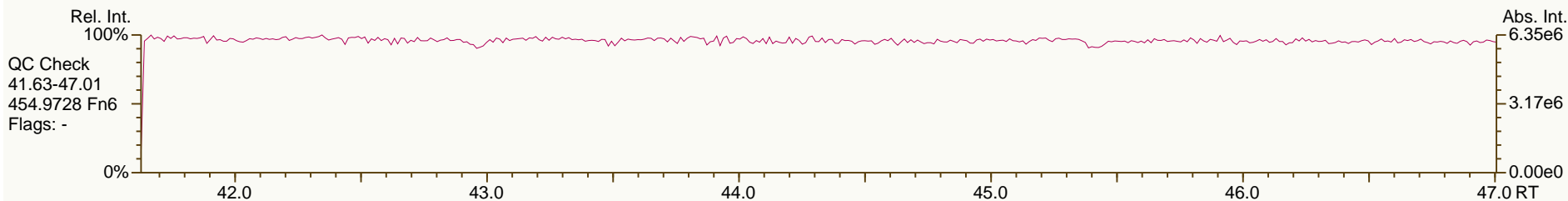
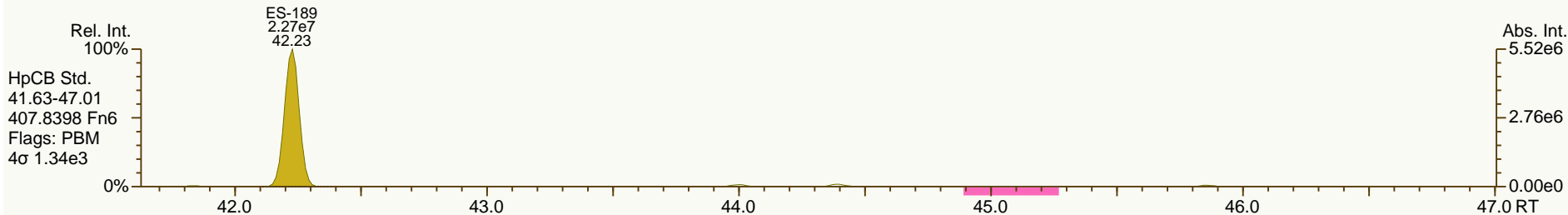
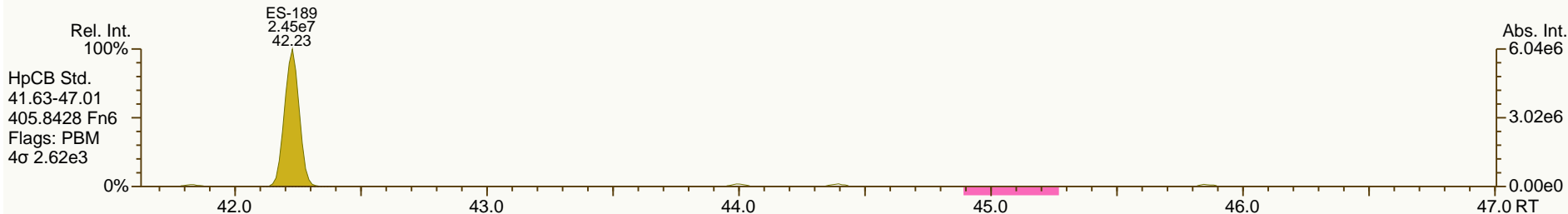
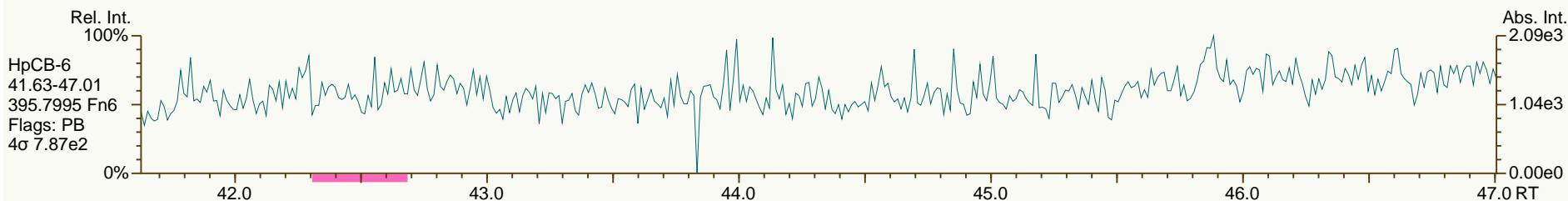
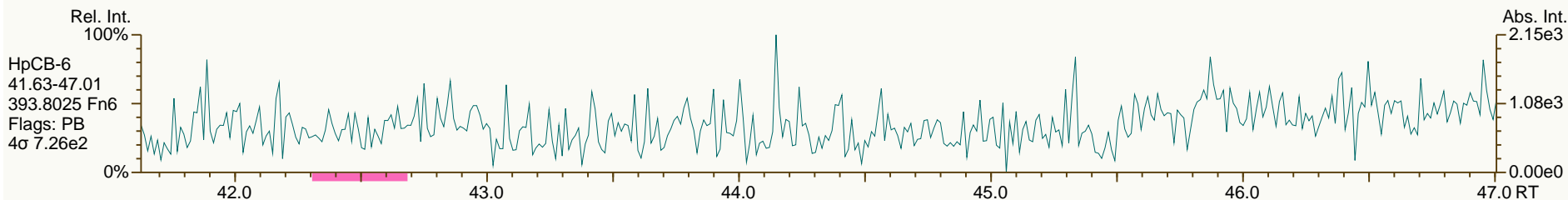
Acq: 14-Oct-2013 19:42:16
User: CTW Datafile: 131014S08



SGS-AP ID: A5942_11361_PCB_001-RJ
 Instr: AutoSpec-Ultima MM4

Sample ID: JW-RB-130913
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

Acq: 14-Oct-2013 19:42:16
 User: CTW Datafile: 131014S08



SGS-AP ID: A5942_11361_PCB_001-RJ

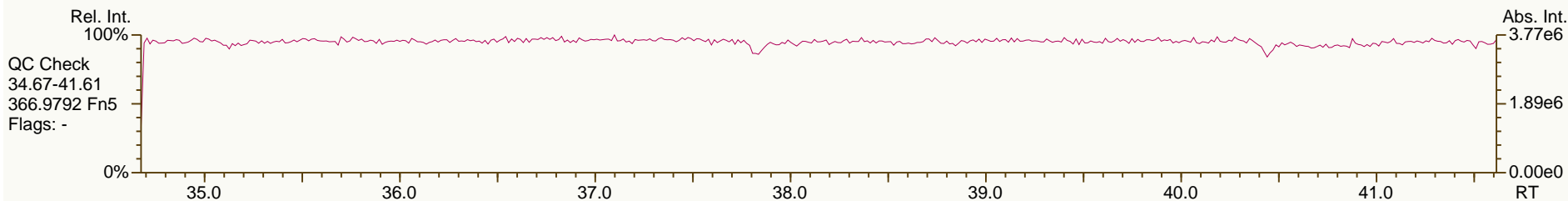
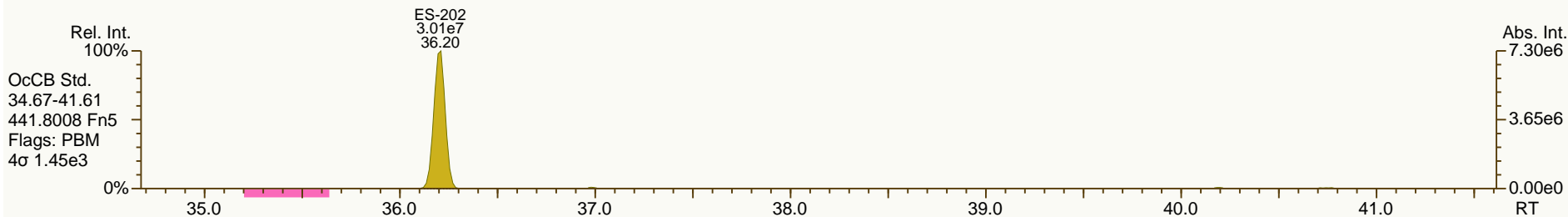
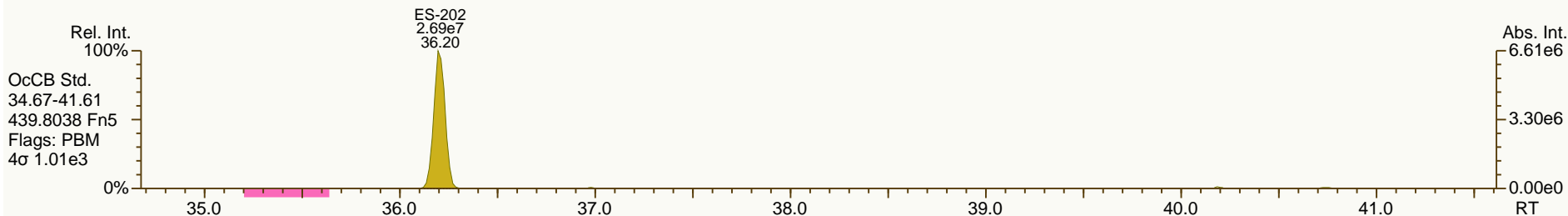
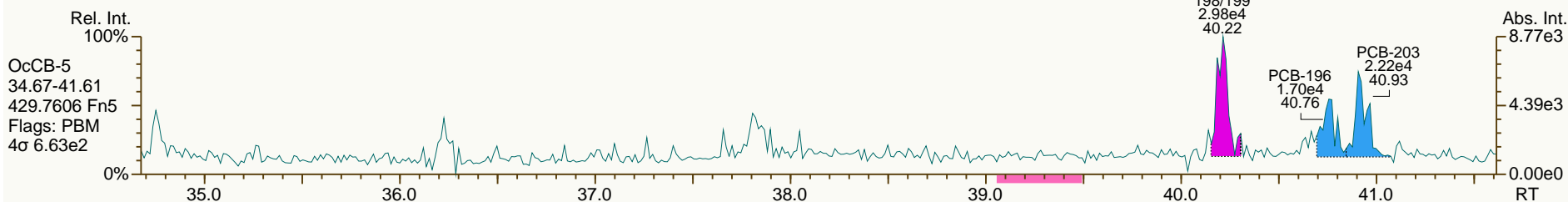
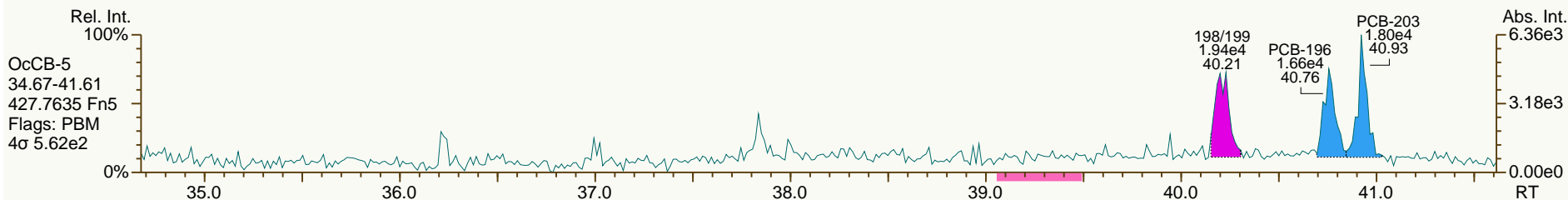
Sample ID: JW-RB-130913

Acq: 14-Oct-2013 19:42:16

Instr: AutoSpec-Ultima MM4

VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

User: CTW Datafile: 131014S08



SGS-AP ID: A5942_11361_PCB_001-RJ

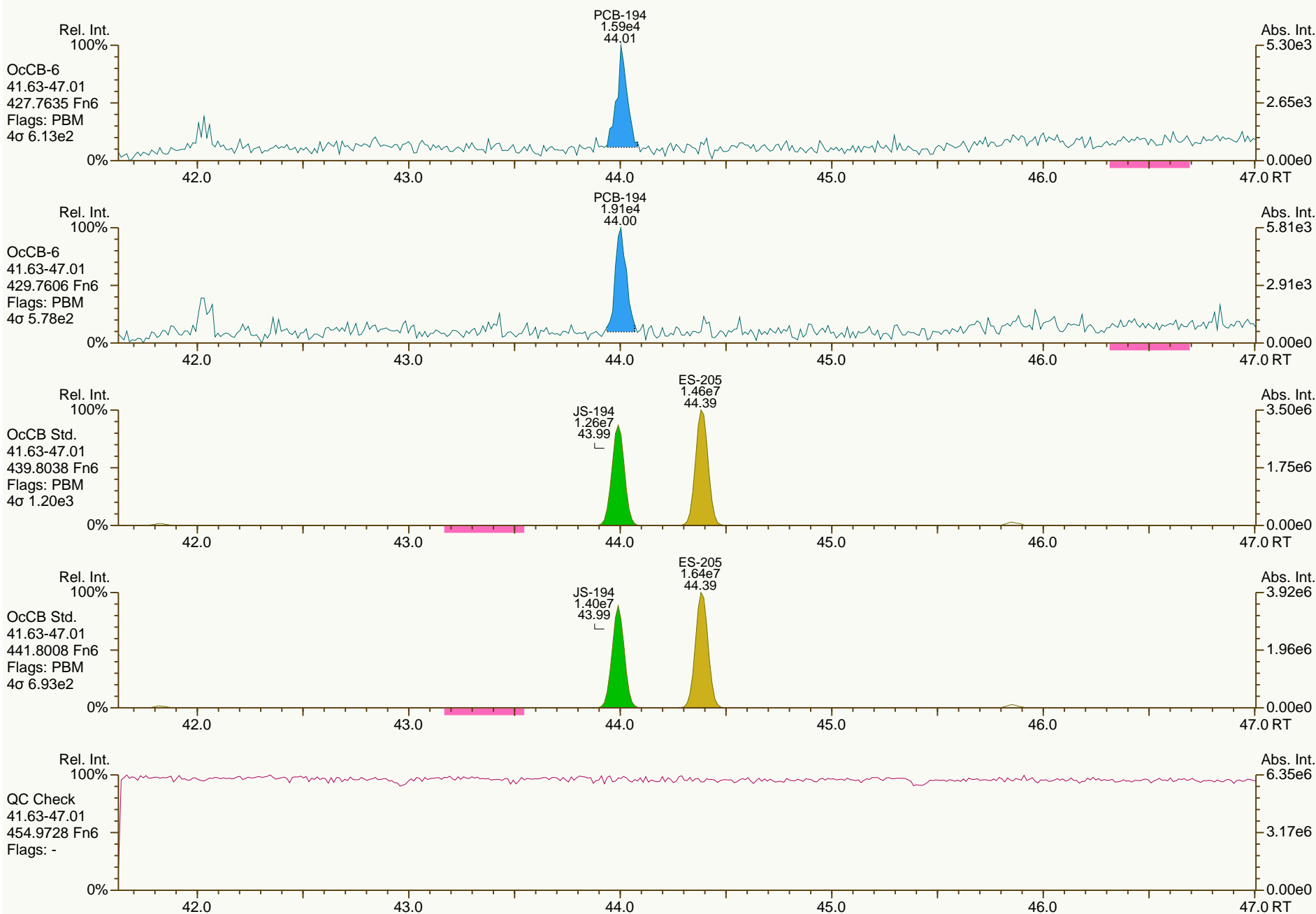
Sample ID: JW-RB-130913

Acq: 14-Oct-2013 19:42:16

Instr: AutoSpec-Ultima MM4

VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

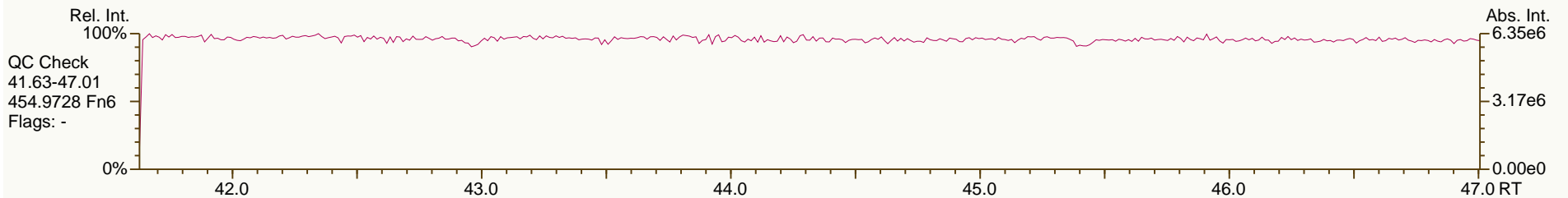
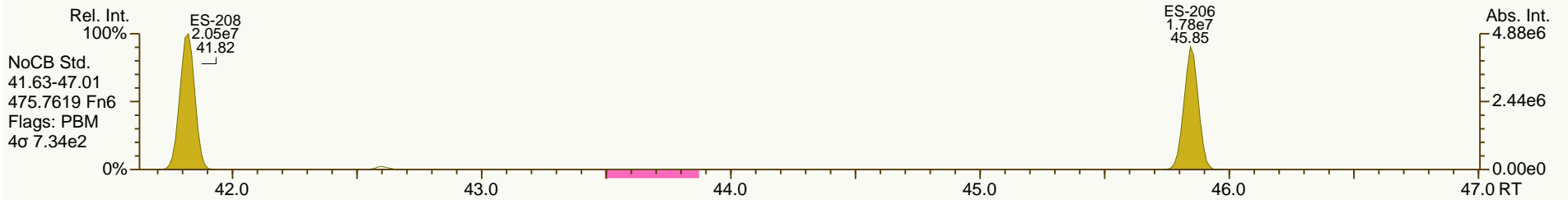
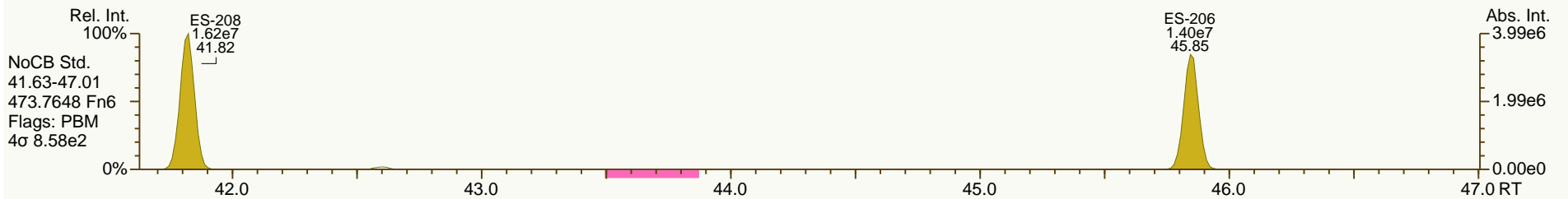
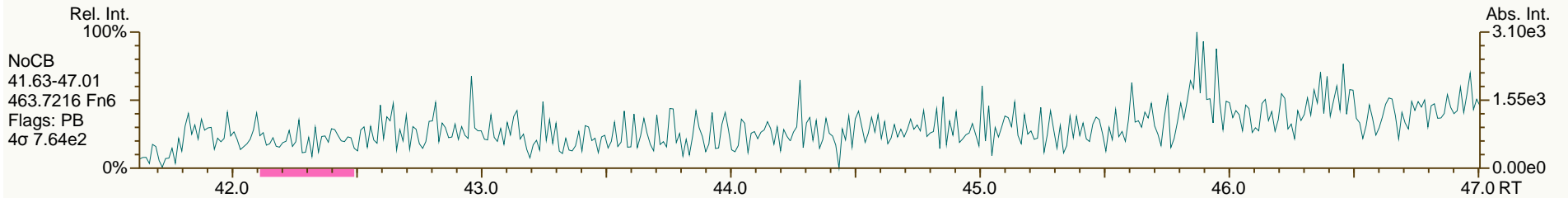
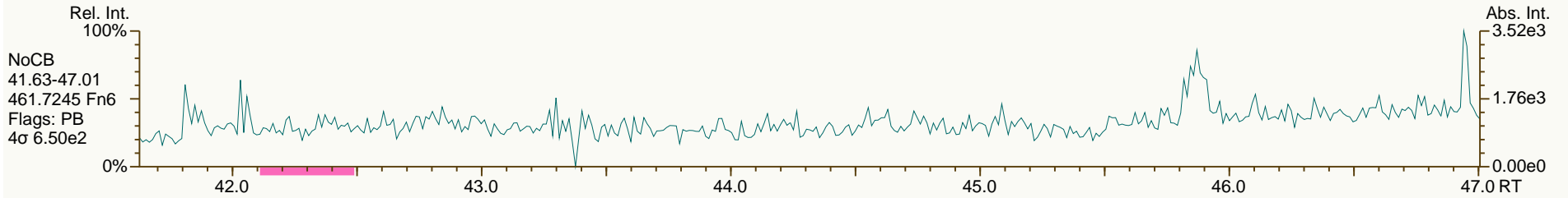
User: CTW Datafile: 131014S08



SGS-AP ID: A5942_11361_PCB_001-RJ
 Instr: AutoSpec-Ultima MM4

Sample ID: JW-RB-130913
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

Acq: 14-Oct-2013 19:42:16
 User: CTW Datafile: 131014S08



SGS-AP ID: A5942_11361_PCB_001-RJ

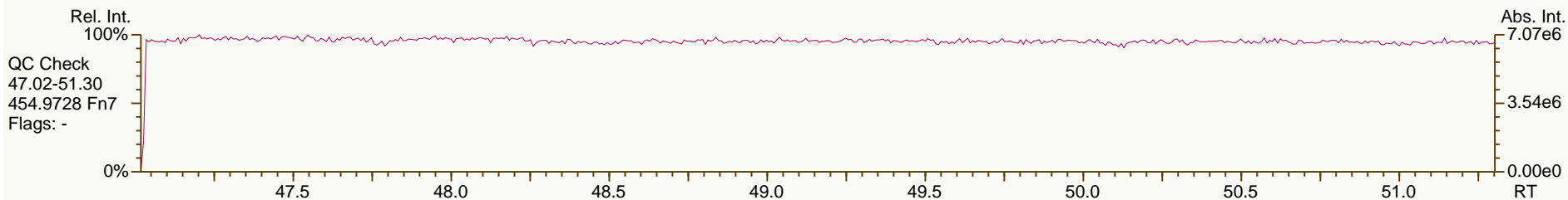
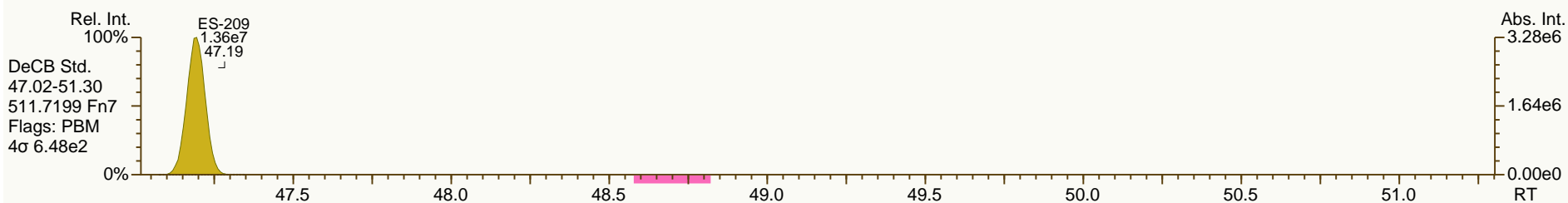
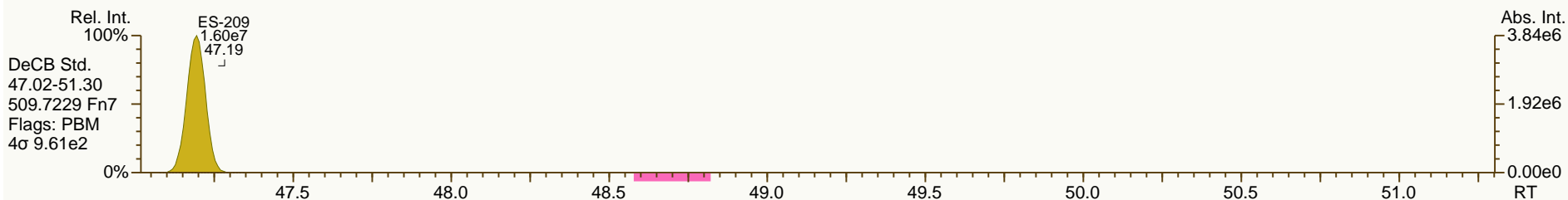
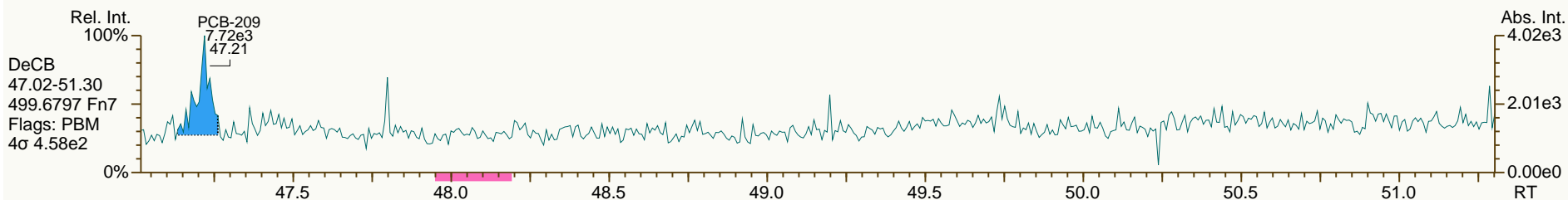
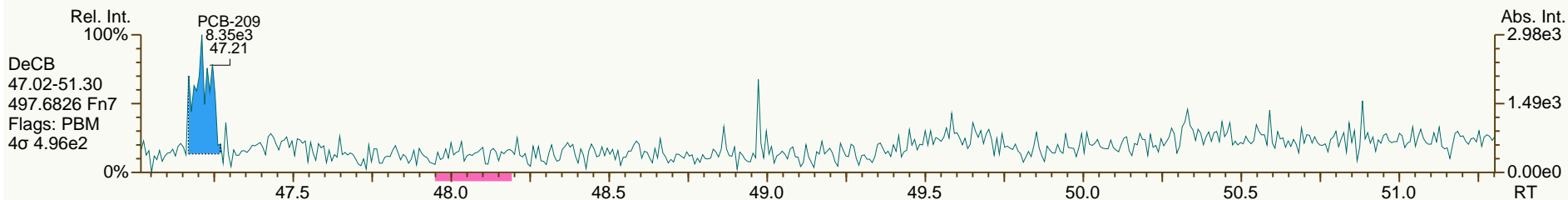
Sample ID: JW-RB-130913

Acq: 14-Oct-2013 19:42:16

Instr: AutoSpec-Ultima MM4

VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

User: CTW Datafile: 131014S08



SGS Analytical Perspectives — Run Log

Project: A5942_11361_PCB

Instrument: MM4 (AutoSpec-Ultima)

MS Experiment: pcb-2011-08

GC Program: pcb90_FI

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
3	131014S03	4	CS3_131014_PCB_SC	1.00	SIL 13-40-1 ✓	CTW, JLJ	999-560	14-Oct-2013	15:04:31
4	131014S04	39	OPR1_11361_PCB-RJ	1.00	0_11361_OPR001	CTW, JLJ	466-088	14-Oct-2013	15:57:48
6	131014S06	12	SBS_131014_PCB_SB	1.00	SIL9-41-1	CTW, JLJ	812-123	14-Oct-2013	17:50:05
7	131014S07	40	MB1_11361_PCB_TLX-RJ	1.00	Method Blank ✓	CTW, JLJ	016-783	14-Oct-2013	18:46:09
8	131014S08	41	A5942_11361_PCB_001-RJ	0.86	JW-RB-130913 ✓	CTW, JLJ	074-145	14-Oct-2013	19:42:16

REVIEWED*By Jerry Jones at 12:04 pm, Oct 15, 2013***REVIEWED***By Todd Vilen at 9:47 am, Oct 16, 2013*

PCB QC Summary		SGS Analytical Perspectives			Processed: 15-Oct-2013 11:47		
Lab ID:	CS3_131014_PCB_SC						
Acquired:	14-OCT-2013 15:04		ICAL: MM4_PCB_07122013_11SEP2013				
Datafile:	131014S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	29.33	2.51E+07	0.78 Y	1.51	1.48	-2.3%	
PCB-81 344'5'-TeCB	28.86	2.40E+07	0.77 Y	1.27	1.27	-0.3%	
PCB-105 233'44'-PeCB	32.28	1.71E+07	0.62 Y	1.00	1.00	0.3%	
PCB-114 2344'5'-PeCB	31.73	1.71E+07	0.63 Y	1.06	1.05	-0.8%	
PCB-118 23'44'5'-PeCB	31.29	1.66E+07	0.62 Y	1.01	1.03	1.6%	
PCB-123 23'44'5'-PeCB	31.01	1.75E+07	0.62 Y	1.06	1.14	7.8%	
PCB-126 33'44'5'-PeCB	34.88	2.05E+07	0.61 Y	1.26	1.20	-4.9%	
PCB-156/157 ...-HxCB	37.42	3.06E+07	1.24 Y	1.06	1.08	1.1%	
PCB-167 23'44'55'-HxCB	36.45	1.62E+07	1.21 Y	1.12	1.09	-2.6%	
PCB-169 33'44'55'-HxCB	40.14	1.54E+07	1.29 Y	1.09	1.08	-0.6%	
PCB-189 233'44'55'-HpCB	42.26	1.87E+07	1.07 Y	1.15	1.15	0.0%	
PCB-209 DeCB	47.23	1.10E+07	1.16 Y	1.03	1.03	-0.4%	
ES PCB-1	9.90	6.04E+07	3.21 Y	1.04	1.09	4.5%	
ES PCB-3	11.82	5.55E+07	3.21 Y	0.99	1.00	1.1%	
ES PCB-4	12.04	4.28E+07	1.54 Y	0.71	0.77	8.7%	
ES PCB-15	17.14	5.99E+07	1.63 Y	1.09	1.08	-0.8%	
ES PCB-19	14.74	3.29E+07	1.08 Y	0.59	0.59	0.6%	
ES PCB-37	23.12	4.28E+07	1.09 Y	1.32	1.29	-1.9%	
ES PCB-54	17.38	4.94E+07	0.76 Y	1.35	1.49	10.4%	
ES PCB-77	29.31	3.40E+07	0.83 Y	1.07	1.03	-3.7%	
ES PCB-81	28.84	3.79E+07	0.82 Y	1.19	1.15	-3.7%	
ES PCB-104	22.07	4.47E+07	1.57 Y	1.62	1.82	12.3%	
ES PCB-105	32.26	3.43E+07	1.58 Y	1.30	1.40	7.4%	
ES PCB-114	31.71	3.26E+07	1.58 Y	1.32	1.33	0.7%	
ES PCB-118	31.27	3.24E+07	1.57 Y	1.30	1.32	1.4%	
ES PCB-123	30.99	3.06E+07	1.53 Y	1.26	1.25	-1.1%	
ES PCB-126	34.86	3.41E+07	1.61 Y	1.41	1.39	-1.1%	
ES PCB-153	32.84	2.93E+07	1.28 Y	1.15	1.14	-0.9%	
ES PCB-155	26.88	3.88E+07	1.25 Y	1.53	1.51	-1.3%	
ES PCB-156/157	37.39	5.68E+07	1.26 Y	1.19	1.11	-6.6%	
ES PCB-167	36.42	2.97E+07	1.29 Y	1.22	1.16	-5.2%	
ES PCB-169	40.12	2.86E+07	1.25 Y	1.18	1.12	-5.6%	
ES PCB-170	39.62	2.38E+07	1.05 Y	1.22	1.36	11.6%	
ES PCB-180	38.56	2.65E+07	1.08 Y	1.41	1.52	7.6%	
ES PCB-188	31.70	4.75E+07	1.04 Y	1.71	1.85	8.6%	
ES PCB-189	42.24	3.24E+07	1.07 Y	1.84	1.85	0.7%	
ES PCB-202	36.22	3.76E+07	0.90 Y	1.42	1.47	3.7%	
ES PCB-205	44.40	2.19E+07	0.87 Y	1.25	1.25	-0.3%	
ES PCB-206	45.86	2.21E+07	0.77 Y	1.24	1.26	2.1%	
ES PCB-208	41.84	2.54E+07	0.78 Y	1.42	1.45	2.2%	
ES PCB-209	47.21	2.13E+07	1.18 Y	1.23	1.22	-1.2%	

PCB QC Summary		SGS Analytical Perspectives			Processed: 15-Oct-2013 11:47		
Lab ID:	CS3_131014_PCB_SC	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	14-OCT-2013 15:04						
Datafile:	131014S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	19.72	4.57E+07	1.09 Y	1.06	1.07	0.4%	
SS PCB-111	29.35	3.21E+07	1.58 Y	1.06	1.05	-1.0%	
SS PCB-178	34.27	2.81E+07	1.03 Y	0.58	0.59	1.4%	
CS PCB-28	19.72	4.57E+07	1.09 Y	1.40	1.38	-1.5%	
CS PCB-111	29.35	3.21E+07	1.58 Y	1.34	1.31	-2.1%	
CS PCB-178	34.27	2.81E+07	1.03 Y	0.99	1.09	10.2%	
JS PCB-9	13.77	5.54E+07	1.63 Y		-	-	
JS PCB-52	21.28	3.31E+07	0.76 Y		-	-	
JS PCB-101	27.08	2.45E+07	1.57 Y		-	-	
JS PCB-138	33.89	2.56E+07	1.30 Y		-	-	
JS PCB-194	44.01	1.75E+07	0.90 Y		-	-	
PCB-1 2-MoCB	9.91	3.59E+07	3.18 Y	1.20	1.19	-0.5%	
PCB-3 4-MoCB	11.84	3.50E+07	3.17 Y	1.24	1.26	2.0%	
PCB-4 22'-DiCB	12.05	1.95E+07	1.57 Y	0.97	0.91	-6.1%	
PCB-15 44'-DiCB	17.15	3.43E+07	1.52 Y	1.23	1.15	-6.8%	
PCB-19 22'6'-TrCB	14.76	1.57E+07	1.04 Y	0.97	0.95	-1.5%	
PCB-37 344'-TrCB	23.14	2.78E+07	1.05 Y	1.28	1.30	1.1%	
PCB-54 22'66'-TeCB	17.40	2.37E+07	0.78 Y	1.00	0.96	-4.1%	
PCB-104 22'466'-PeCB	22.09	2.19E+07	0.62 Y	1.06	0.98	-7.2%	
PCB-155 22'44'66'-HxCB	26.91	2.18E+07	1.26 Y	1.12	1.12	-0.1%	
PCB-188 22'34'566'-HpCB	31.72	2.29E+07	1.04 Y	0.97	0.96	-0.5%	
PCB-202 22'33'55'66'-OcCB	36.24	1.49E+07	0.87 Y	0.83	0.79	-4.6%	
PCB-205 233'44'55'6'-OcCB	44.42	1.21E+07	0.93 Y	1.08	1.11	2.4%	
PCB-208 22'33'455'66'-NoCB	41.86	1.23E+07	0.78 Y	0.99	0.97	-2.5%	
PCB-206 22'33'44'55'6'-NoCB	45.88	8.96E+06	0.78 Y	0.83	0.81	-2.2%	

PCB QC Summary - Ax2 Detail				Processed: 15-Oct-2013 11:47			
Lab ID:	CS3_131014_PCB_SC			ICAL: MM4_PCB_07122013_11SEP2013			
Acquired:	14-OCT-2013 15:04						
Datafile:	131014803						
Name	RT	Response	RA		RRF		
PCB-1 2-MoCB	9.91	3.59E+07	3.18 Y	1.20	-	-	-
PCB-2 3-MoCB	11.68	3.54E+07	3.18 Y	1.25	1.28	2.5%	
PCB-3 4-MoCB	11.84	3.50E+07	3.17 Y	1.24	-	-	
PCB-4 22'-DiCB	12.05	1.95E+07	1.57 Y	0.97	-	-	
PCB-10 26-DiCB	12.20	2.99E+07	1.53 Y	1.51	1.40	-7.4%	
PCB-9 25-DiCB	13.78	3.07E+07	1.54 Y	1.06	1.02	-3.3%	
PCB-7 24-DiCB	13.92	3.51E+07	1.55 Y	1.23	1.17	-4.8%	
PCB-6 23'-DiCB	14.13	3.23E+07	1.54 Y	1.14	1.08	-5.1%	
PCB-5 23-DiCB	14.39	3.28E+07	1.54 Y	1.15	1.09	-4.6%	
PCB-8 24'-DiCB	14.50	3.33E+07	1.56 Y	1.18	1.11	-5.5%	
PCB-14 35-DiCB	15.90	3.78E+07	1.55 Y	1.31	1.26	-3.8%	
PCB-11 33'-DiCB	16.62	3.28E+07	1.59 Y	1.17	1.10	-6.4%	
PCB-13/12 34'/34-DiCB	16.89	6.74E+07	1.54 Y	1.17	1.12	-3.5%	
PCB-15 44'-DiCB	17.15	3.43E+07	1.52 Y	1.23	-	-	
PCB-19 22'6-TrCB	14.76	1.57E+07	1.04 Y	0.97	-	-	
PCB-30/18 246/22'5-TrCB	16.35	4.10E+07	1.04 Y	1.23	1.24	0.8%	
PCB-17 22'4-TrCB	16.72	1.80E+07	1.02 Y	1.06	1.09	3.6%	
PCB-27 23'6-TrCB	16.90	2.41E+07	1.03 Y	1.44	1.46	1.6%	
PCB-24 236-TrCB	17.01	2.30E+07	1.02 Y	1.37	1.39	1.9%	
PCB-16 22'3-TrCB	17.11	1.44E+07	1.03 Y	0.80	0.88	8.9%	
PCB-32 24'6-TrCB	17.55	2.56E+07	1.03 Y	1.59	1.55	-2.3%	
PCB-34 23'5'-TrCB	18.63	2.76E+07	1.08 Y	1.26	1.29	1.9%	
PCB-23 235-TrCB	18.76	2.83E+07	1.06 Y	1.31	1.32	0.9%	
PCB-26/29 23'5/245-TrCB	19.04	5.72E+07	1.05 Y	1.33	1.34	0.1%	
PCB-25 23'4-TrCB	19.22	2.86E+07	1.04 Y	1.33	1.34	0.5%	
PCB-31 24'5-TrCB	19.49	2.96E+07	1.07 Y	1.39	1.38	-0.3%	
PCB-28/20 244'/233'-TrCB	19.75	5.66E+07	1.06 Y	1.30	1.32	1.8%	
PCB-21/33 234/23'4'-TrCB	19.91	5.80E+07	1.06 Y	1.34	1.35	0.9%	
PCB-22 234'-TrCB	20.28	2.67E+07	1.06 Y	1.22	1.25	2.3%	
PCB-36 33'5-TrCB	21.61	2.91E+07	1.09 Y	1.35	1.36	0.9%	
PCB-39 34'5-TrCB	21.91	3.00E+07	1.07 Y	1.40	1.40	0.4%	
PCB-38 345-TrCB	22.40	2.72E+07	1.06 Y	1.25	1.27	1.7%	
PCB-35 33'4-TrCB	22.80	2.71E+07	1.07 Y	1.23	1.27	2.9%	
PCB-37 344'-TrCB	23.14	2.78E+07	1.05 Y	1.28	-	-	
PCB-54 22'66'-TeCB	17.40	2.37E+07	0.78 Y	1.00	-	-	
PCB-50/53 22'46/22'56'-TeCB	19.26	3.28E+07	0.78 Y	0.82	0.87	6.0%	
PCB-45 22'36'-TeCB	19.81	1.46E+07	0.77 Y	0.73	0.77	5.1%	
PCB-51 22'46'-TeCB	19.88	1.65E+07	0.79 Y	0.79	0.87	9.5%	
PCB-46 22'36'-TeCB	20.08	1.35E+07	0.78 Y	0.66	0.71	8.4%	
PCB-52 22'55'-TeCB	21.30	1.52E+07	0.78 Y	0.79	0.80	1.7%	
PCB-73 23'5'6'-TeCB	21.42	2.16E+07	0.77 Y	1.06	1.14	7.7%	

Lab ID: - Ax2 Detail				Processed: 15-Oct-2013 11:47		
Lab ID:	CS3_131014_PCB_SC	ICAL: MM4_PCB_07122013_11SEP2013				
Acquired:	14-OCT-2013 15:04					
Datafile:	131014S03					
Name	RT	Response	RA		RRF	
PCB-43 22'35'-TeCB	21.50	1.22E+07	0.79 Y	0.64	0.65	0.8%
PCB-69/49 23'46'/22'45'-TeCB	21.69	3.77E+07	0.78 Y	0.95	0.99	4.9%
PCB-48 22'45'-TeCB	21.95	1.56E+07	0.78 Y	0.79	0.82	4.4%
PCB-44/47/65 ...-TeCB	22.16	4.95E+07	0.78 Y	0.84	0.87	3.5%
PCB-59/62/75 ...-TeCB	22.42	6.33E+07	0.78 Y	1.07	1.11	3.6%
PCB-42 22'34'-TeCB	22.59	1.41E+07	0.77 Y	0.72	0.74	3.2%
PCB-41 22'34'-TeCB	22.90	1.37E+07	0.77 Y	0.66	0.72	10.2%
PCB-71/40 23'4'6'/22'33'-TeCB	23.00	3.09E+07	0.77 Y	0.79	0.81	2.6%
PCB-64 23'4'-TeCB	23.19	2.27E+07	0.79 Y	1.13	1.20	5.5%
PCB-72 23'55'-TeCB	23.91	2.52E+07	0.80 Y	1.31	1.33	1.3%
PCB-68 23'45'-TeCB	24.15	2.72E+07	0.79 Y	1.43	1.44	0.7%
PCB-57 23'5'-TeCB	24.51	2.42E+07	0.79 Y	1.26	1.27	1.2%
PCB-58 23'5'-TeCB	24.71	2.51E+07	0.77 Y	1.30	1.32	1.6%
PCB-67 23'45'-TeCB	24.85	2.62E+07	0.78 Y	1.35	1.38	2.6%
PCB-63 23'4'-TeCB	25.07	2.74E+07	0.79 Y	1.42	1.44	1.7%
PCB-61/70/74/76 ...-TeCB	25.35	9.91E+07	0.78 Y	1.32	1.31	-1.0%
PCB-66 23'44'-TeCB	25.63	2.41E+07	0.78 Y	1.26	1.27	0.7%
PCB-55 23'3'4'-TeCB	25.77	2.41E+07	0.78 Y	1.24	1.27	3.0%
PCB-56 23'3'4'-TeCB	26.20	2.32E+07	0.78 Y	1.22	1.23	0.1%
PCB-60 23'44'-TeCB	26.38	2.44E+07	0.80 Y	1.29	1.28	-0.3%
PCB-80 33'55'-TeCB	26.73	2.74E+07	0.80 Y	1.42	1.45	2.0%
PCB-79 33'45'-TeCB	28.02	2.78E+07	0.79 Y	1.47	1.47	-0.1%
PCB-78 33'45'-TeCB	28.48	2.34E+07	0.79 Y	1.23	1.23	-0.1%
PCB-104 22'466'-PeCB	22.09	2.19E+07	0.62 Y	1.06	-	-
PCB-96 22'366'-PeCB	22.41	1.89E+07	0.63 Y	0.90	0.85	-5.9%
PCB-103 22'45'6'-PeCB	24.06	1.30E+07	0.60 Y	0.84	0.85	1.4%
PCB-94 22'356'-PeCB	24.24	1.12E+07	0.63 Y	0.73	0.73	0.3%
PCB-95 22'35'6'-PeCB	24.62	1.22E+07	0.60 Y	0.78	0.79	2.0%
PCB-100/93 22'44'6'/22'356'-PeC	24.80	2.49E+07	0.61 Y	0.77	0.81	4.9%
PCB-102 22'456'-PeCB	24.92	1.47E+07	0.62 Y	0.83	0.96	15.5%
PCB-98 22'34'6'-PeCB	24.98	1.03E+07	0.63 Y	0.75	0.67	-10.4%
PCB-88 22'346'-PeCB	25.26	1.08E+07	0.62 Y	0.74	0.71	-4.6%
PCB-91 22'34'6'-PeCB	25.34	1.37E+07	0.61 Y	0.83	0.90	8.3%
PCB-84 22'33'6'-PeCB	25.53	1.04E+07	0.60 Y	0.66	0.68	3.0%
PCB-89 22'346'-PeCB	25.93	1.11E+07	0.63 Y	0.69	0.73	4.7%
PCB-121 23'45'6'-PeCB	26.29	1.64E+07	0.62 Y	1.06	1.07	1.4%
PCB-92 22'355'-PeCB	26.61	1.16E+07	0.63 Y	0.73	0.76	3.9%
PCB-113/90/101 ...-PeCB	27.08	4.01E+07	0.63 Y	0.85	0.87	2.4%
PCB-83 22'33'5'-PeCB	27.50	1.02E+07	0.61 Y	0.65	0.67	3.6%

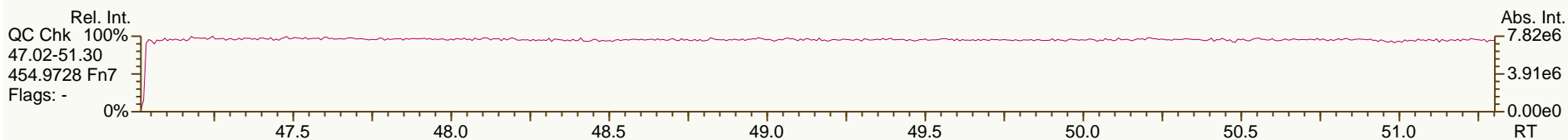
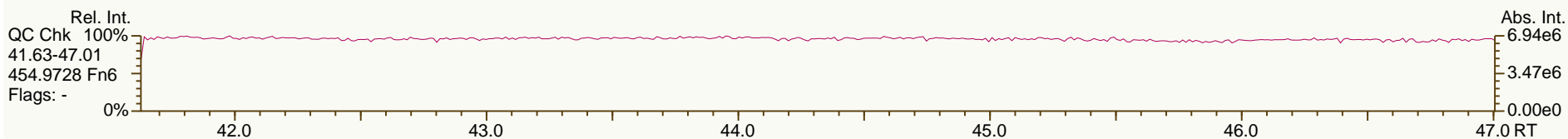
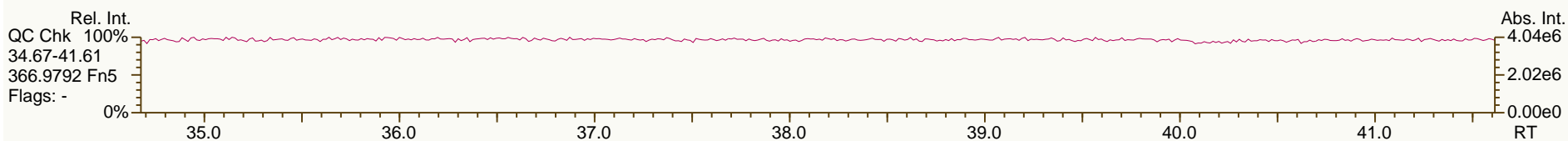
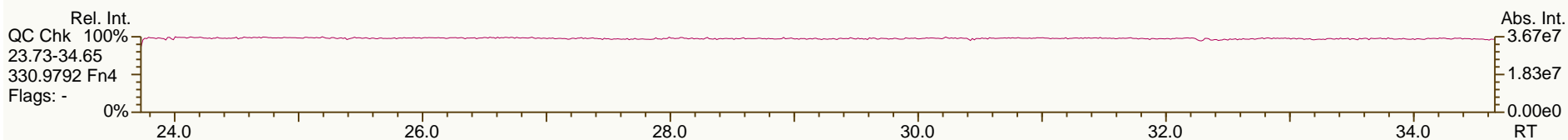
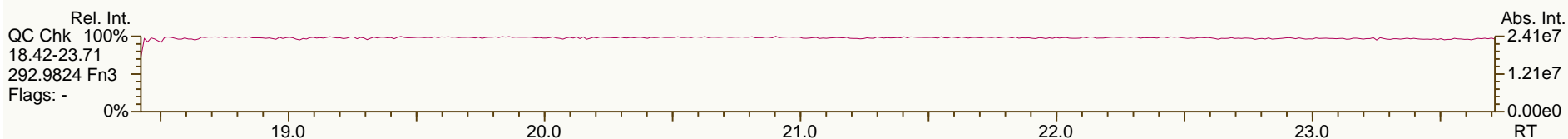
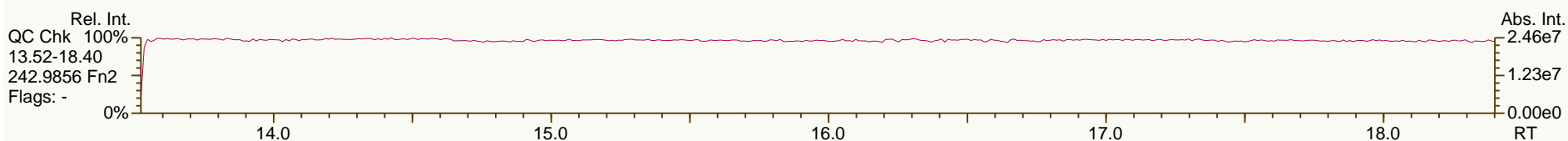
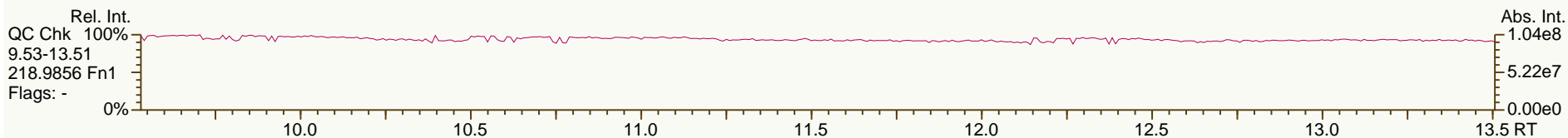
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Lab ID:	CS3_131014_PCB_SC	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	14-OCT-2013 15:04						
Datafile:	131014803						
Name	RT	Response	RA		RRF		
PCB-99 22'44'5-PeCB	27.59	1.27E+07	0.60 Y	0.84	0.83	-1.5%	
PCB-112 233'56-PeCB	27.69	1.59E+07	0.62 Y	1.00	1.04	4.4%	
PCB-108/119/86/97/125...-PeCB	28.03	8.27E+07	0.61 Y	0.87	0.90	3.4%	
PCB-117 234'56-PeCB	28.55	1.46E+07	0.60 Y	0.88	0.95	8.9%	
PCB-116/85 23456/22'344'-PeCB	28.62	2.81E+07	0.61 Y	0.91	0.92	0.3%	
PCB-110 233'4'6-PeCB	28.76	1.45E+07	0.60 Y	0.99	0.95	-4.3%	
PCB-115 2344'6-PeCB	28.83	1.67E+07	0.62 Y	1.01	1.09	8.0%	
PCB-82 22'33'4-PeCB	29.03	9.93E+06	0.61 Y	0.62	0.65	3.9%	
PCB-111 233'55'-PeCB	29.37	1.67E+07	0.61 Y	1.07	1.09	1.7%	
PCB-120 23'455'-PeCB	29.76	1.66E+07	0.61 Y	1.07	1.08	0.9%	
PCB-107/124 ...-PeCB	30.71	3.08E+07	0.63 Y	0.98	1.01	2.3%	
PCB-109 233'46-PeCB	30.91	1.67E+07	0.63 Y	1.07	1.09	1.9%	
PCB-106 233'45-PeCB	31.11	1.48E+07	0.64 Y	1.00	0.97	-3.4%	
PCB-122 233'4'5'-PeCB	31.58	1.46E+07	0.63 Y	0.89	0.89	0.4%	
PCB-127 33'455'-PeCB	33.52	1.59E+07	0.63 Y	0.98	0.93	-5.6%	
PCB-155 22'44'66'-HxCB	26.91	2.18E+07	1.26 Y	1.12	-	-	
PCB-152 22'3566'-HxCB	27.07	2.02E+07	1.26 Y	1.05	1.04	-0.8%	
PCB-150 22'34'66'-HxCB	27.21	2.01E+07	1.26 Y	1.07	1.04	-2.7%	
PCB-136 22'33'66'-HxCB	27.51	1.85E+07	1.25 Y	0.99	0.95	-3.8%	
PCB-145 22'3466'-HxCB	27.76	1.91E+07	1.26 Y	1.00	0.98	-1.4%	
PCB-148 22'34'56'-HxCB	29.04	1.50E+07	1.24 Y	1.03	1.02	-0.5%	
PCB-151/135 ...-HxCB	29.56	2.89E+07	1.26 Y	1.00	0.99	-1.2%	
PCB-154 22'44'56'-HxCB	29.76	1.64E+07	1.26 Y	1.13	1.12	-0.2%	
PCB-144 22'345'6-HxCB	30.02	1.49E+07	1.25 Y	1.03	1.02	-1.2%	
PCB-147/149 ...-HxCB	30.32	3.04E+07	1.24 Y	1.03	1.04	1.1%	
PCB-134 22'33'56-HxCB	30.48	1.13E+07	1.25 Y	0.84	0.77	-7.2%	
PCB-143 22'3456'-HxCB	30.57	1.36E+07	1.26 Y	0.95	0.93	-1.9%	
PCB-139/140 ...-HxCB	30.82	3.07E+07	1.24 Y	1.05	1.05	0.0%	
PCB-131 22'33'46-HxCB	30.99	1.33E+07	1.25 Y	0.87	0.91	3.6%	
PCB-142 22'3456-HxCB	31.12	1.36E+07	1.24 Y	0.91	0.93	2.1%	
PCB-132 22'33'46'-HxCB	31.37	1.37E+07	1.28 Y	0.92	0.93	1.8%	
PCB-133 22'33'55'-HxCB	31.81	1.42E+07	1.21 Y	0.97	0.97	0.6%	
PCB-165 233'55'6-HxCB	32.14	1.73E+07	1.25 Y	1.19	1.18	-1.1%	
PCB-146 22'34'55'-HxCB	32.35	1.68E+07	1.24 Y	1.08	1.15	5.7%	
PCB-161 233'45'6-HxCB	32.46	1.92E+07	1.25 Y	1.34	1.31	-2.6%	
PCB-153/168 ...-HxCB	32.89	3.68E+07	1.25 Y	1.26	1.26	0.0%	
PCB-141 22'3455'-HxCB	33.03	1.47E+07	1.24 Y	0.98	1.01	2.8%	
PCB-130 22'33'45'-HxCB	33.37	1.29E+07	1.26 Y	0.88	0.88	0.6%	
PCB-137 22'344'5-HxCB	33.56	1.60E+07	1.23 Y	1.07	1.09	2.1%	
PCB-164 233'4'5'6-HxCB	33.65	1.82E+07	1.24 Y	1.29	1.25	-3.4%	
PCB-163/138/129 ...-HxCB	33.93	4.71E+07	1.25 Y	1.05	1.07	2.4%	

Lab ID: - Ax2 Detail			Processed: 15-Oct-2013 11:47			
Lab ID:	CS3_131014_PCB_SC	ICAL: MM4_PCB_07122013_11SEP2013				
Acquired:	14-OCT-2013 15:04					
Datafile:	131014903					
Name	RT	Response	RA		RRF	
PCB-160 233'456-HxCB	34.05	1.77E+07	1.25 Y	1.26	1.21	-3.7%
PCB-158 233'44'6-HxCB	34.24	2.04E+07	1.28 Y	1.40	1.39	-0.6%
PCB-128/166 ...-HxCB	34.96	2.62E+07	1.24 Y	0.89	0.88	-0.6%
PCB-159 233'455'-HxCB	35.80	1.55E+07	1.25 Y	1.04	1.04	-0.1%
PCB-162 233'4'55'-HxCB	36.05	1.60E+07	1.23 Y	1.04	1.08	3.7%
PCB-188 22'34'566'-HpCB	31.72	2.29E+07	1.04 Y	0.97	-	-
PCB-179 22'33'566'-HpCB	32.01	2.09E+07	1.01 Y	0.89	0.88	-1.5%
PCB-184 22'344'66'-HpCB	32.45	2.03E+07	1.05 Y	0.87	0.85	-2.0%
PCB-176 22'33'466'-HpCB	32.75	2.30E+07	1.04 Y	0.97	0.97	0.2%
PCB-186 22'34566'-HpCB	33.13	2.12E+07	1.02 Y	0.93	0.89	-4.4%
PCB-178 22'33'55'6-HpCB	34.30	1.59E+07	1.04 Y	0.67	0.67	-0.4%
PCB-175 22'33'45'6-HpCB	34.83	1.29E+07	1.02 Y	0.97	0.97	0.0%
PCB-187 22'34'55'6-HpCB	35.06	1.35E+07	1.01 Y	1.02	1.02	0.2%
PCB-182 22'344'56'-HpCB	35.23	1.40E+07	1.03 Y	1.05	1.05	0.3%
PCB-183 22'344'5'6-HpCB	35.57	1.37E+07	1.02 Y	1.07	1.03	-3.5%
PCB-185 22'3455'6-HpCB	35.65	1.35E+07	1.05 Y	0.96	1.02	6.4%
PCB-174 22'33'456'-HpCB	35.77	1.16E+07	1.03 Y	0.86	0.87	2.0%
PCB-177 22'33'45'6'-HpCB	36.14	1.16E+07	0.99 Y	0.83	0.87	4.8%
PCB-181 22'344'56'-HpCB	36.47	1.32E+07	1.01 Y	1.00	1.00	0.1%
PCB-171/173 ...-HpCB	36.65	2.32E+07	1.01 Y	0.86	0.88	1.3%
PCB-172 22'33'455'-HpCB	38.03	1.20E+07	1.02 Y	0.87	0.90	3.4%
PCB-192 233'455'6-HpCB	38.27	1.54E+07	1.03 Y	1.19	1.16	-2.2%
PCB-180/193 ...-HpCB	38.55	2.91E+07	1.01 Y	1.11	1.10	-1.1%
PCB-191 233'44'5'6-HpCB	38.88	1.61E+07	1.01 Y	1.23	1.22	-1.5%
PCB-170 22'33'44'5-HpCB	39.64	1.18E+07	1.02 Y	1.01	0.99	-2.1%
PCB-190 233'44'56-HpCB	40.08	1.61E+07	1.02 Y	1.42	1.35	-4.4%
PCB-202 22'33'55'66'-OcCB	36.24	1.49E+07	0.87 Y	0.83	-	-
PCB-201 22'33'45'66'-OcCB	37.02	1.69E+07	0.88 Y	0.94	0.90	-5.0%
PCB-204 22'344'566'-OcCB	37.58	1.58E+07	0.89 Y	0.87	0.84	-3.4%
PCB-197 22'33'44'66'-OcCB	37.78	1.75E+07	0.88 Y	0.97	0.93	-4.8%
PCB-200 22'33'4566'-OcCB	37.87	1.62E+07	0.89 Y	0.89	0.86	-3.4%
PCB-198/199 ...-OcCB	40.21	2.46E+07	0.89 Y	0.66	0.65	-0.2%
PCB-196 22'33'44'56'-OcCB	40.78	1.26E+07	0.88 Y	0.70	0.67	-4.7%
PCB-203 22'344'55'6-OcCB	40.94	1.29E+07	0.87 Y	0.74	0.69	-6.8%
PCB-195 22'33'44'56-OcCB	42.06	9.10E+06	0.92 Y	0.78	0.83	6.7%
PCB-194 22'33'44'55'-OcCB	44.03	9.74E+06	0.93 Y	0.85	0.89	5.1%
PCB-205 233'44'55'6-OcCB	44.42	1.21E+07	0.93 Y	1.08	-	-
PCB-208 22'33'455'66'-NoCB	41.86	1.23E+07	0.78 Y	0.99	-	-
PCB-207 22'33'44'566'-NoCB	42.64	1.28E+07	0.79 Y	1.03	1.01	-1.9%
PCB-206 22'33'44'55'6-NoCB	45.88	8.96E+06	0.78 Y	0.83	-	-

SGS-AP ID: CS3_131014_PCB_SC
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 4

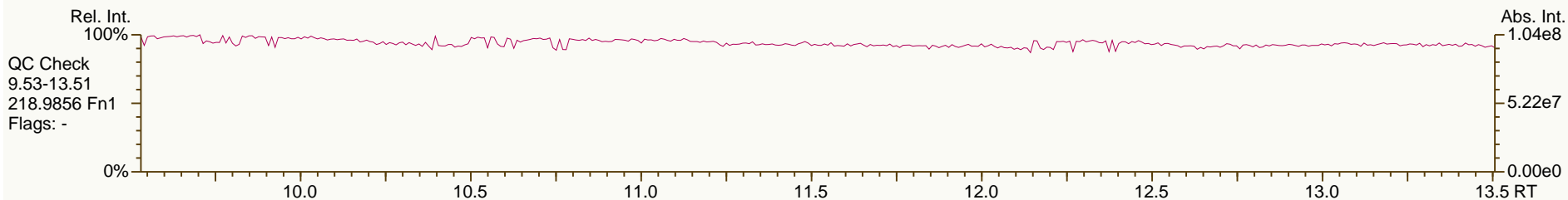
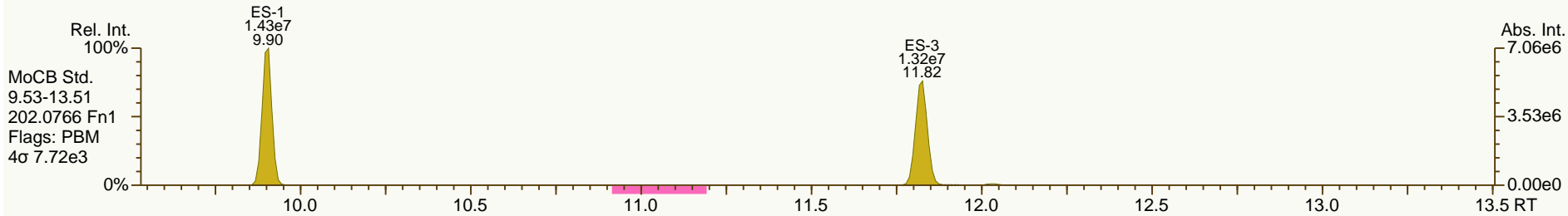
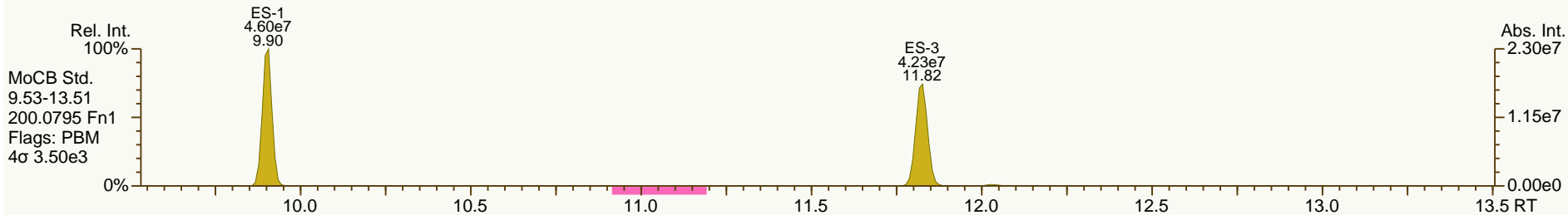
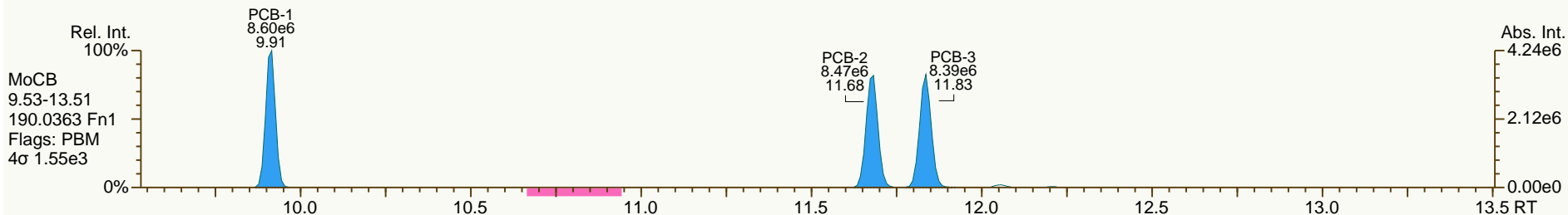
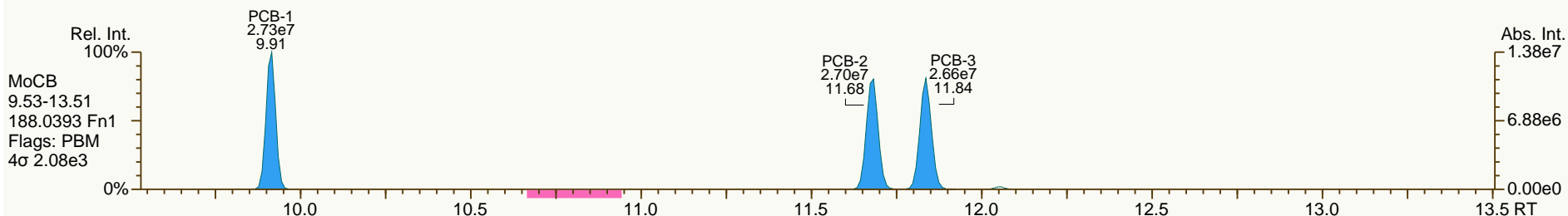
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SGS-AP ID: CS3_131014_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 4

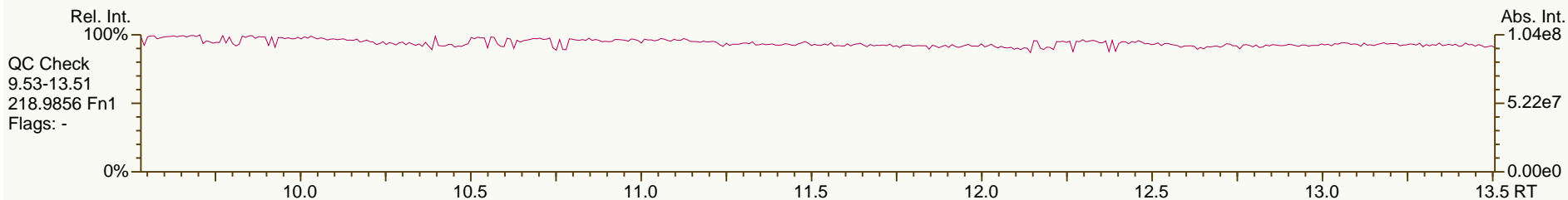
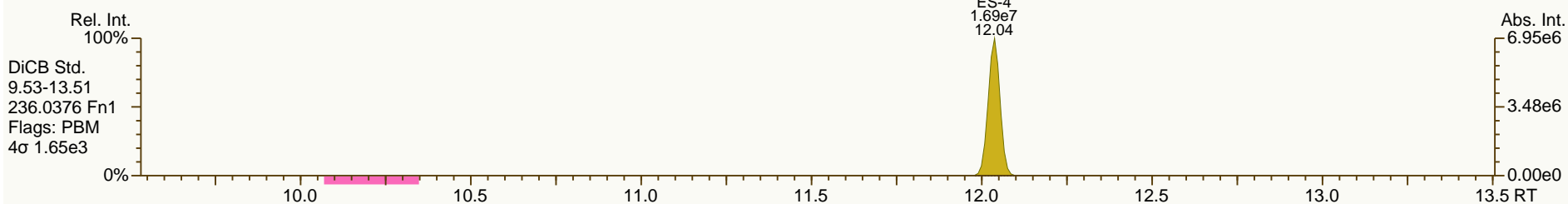
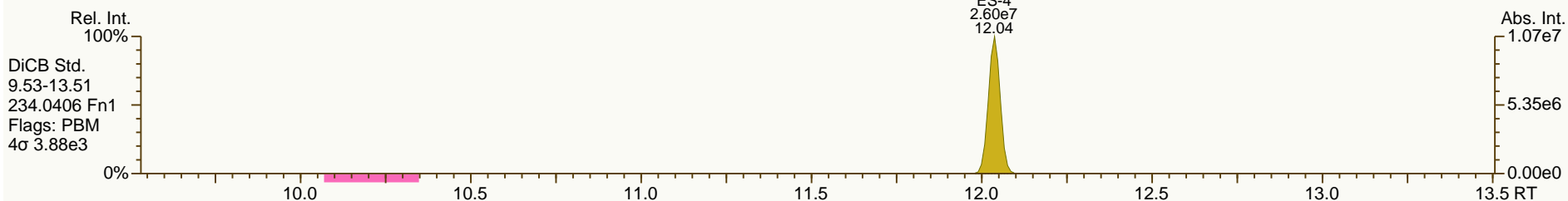
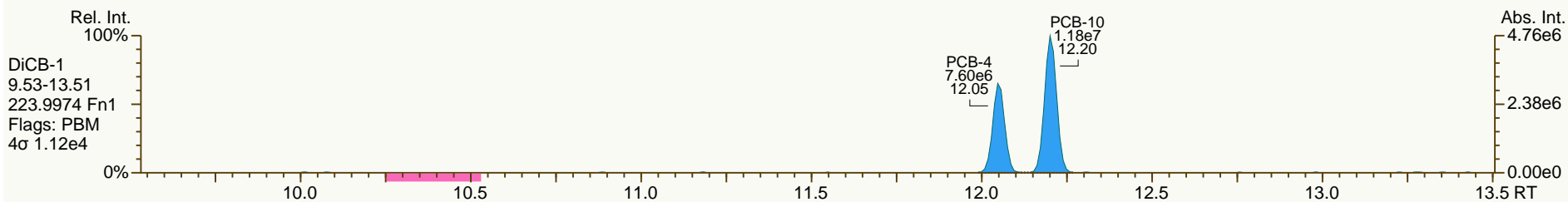
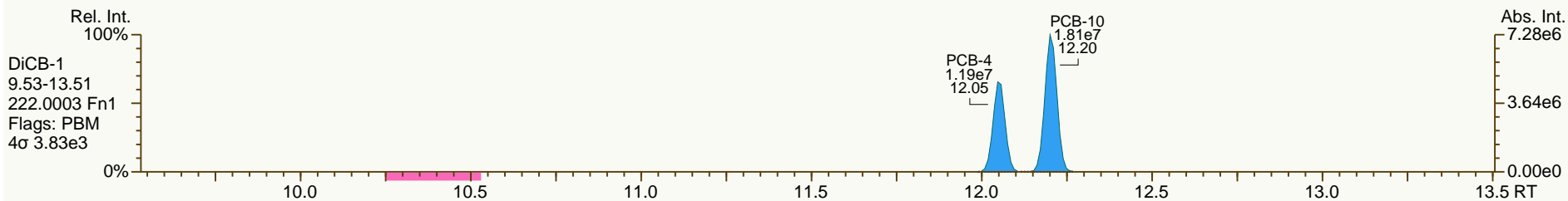
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SGS-AP ID: CS3_131014_PCB_SC
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 4

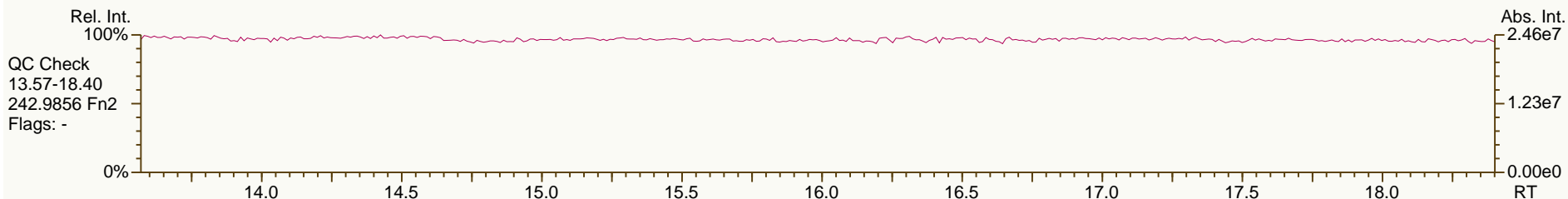
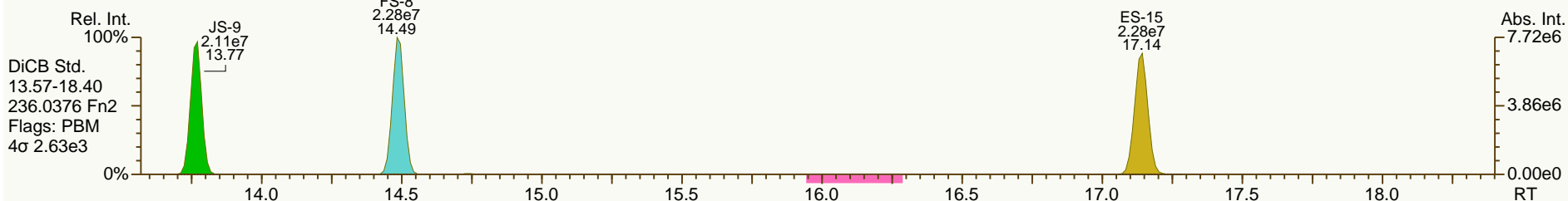
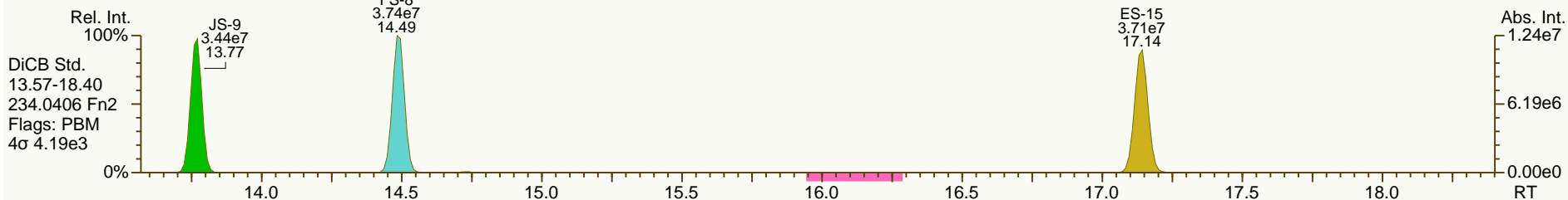
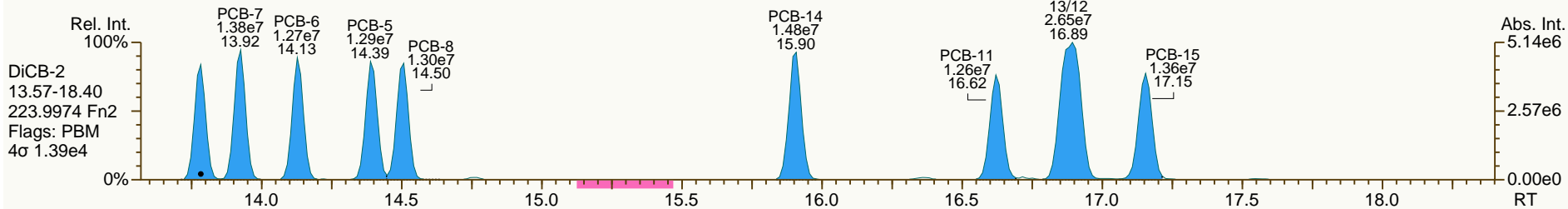
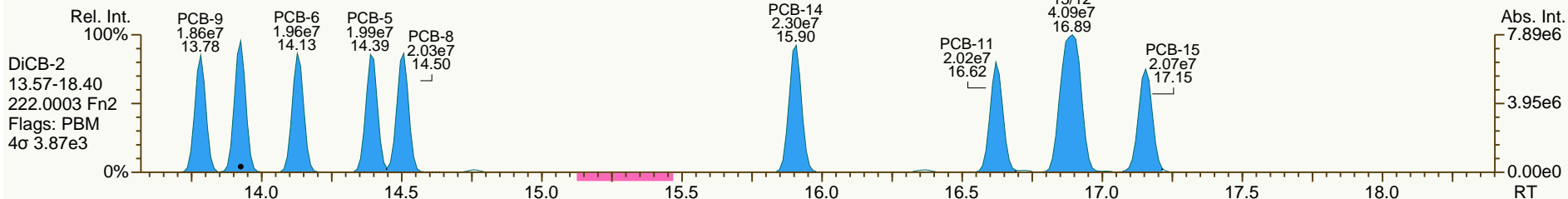
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SGS-AP ID: CS3_131014_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 4

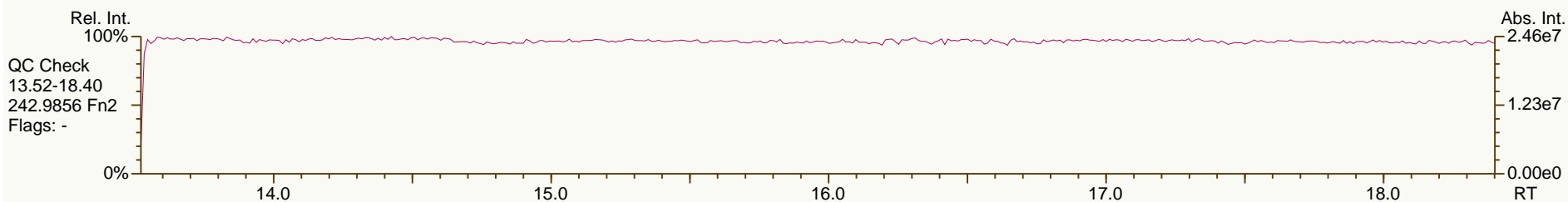
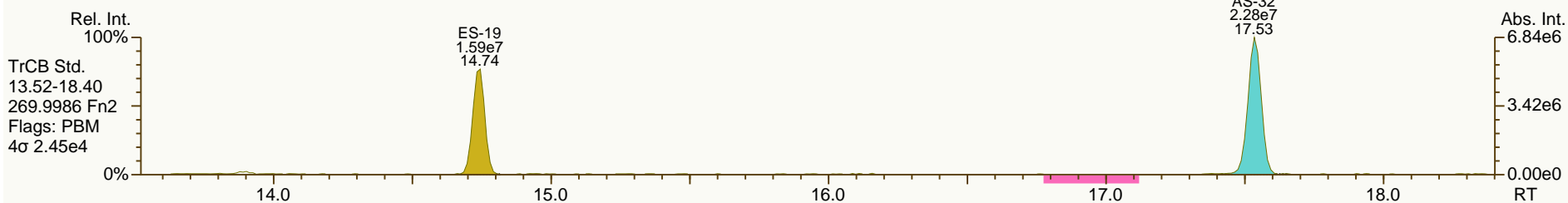
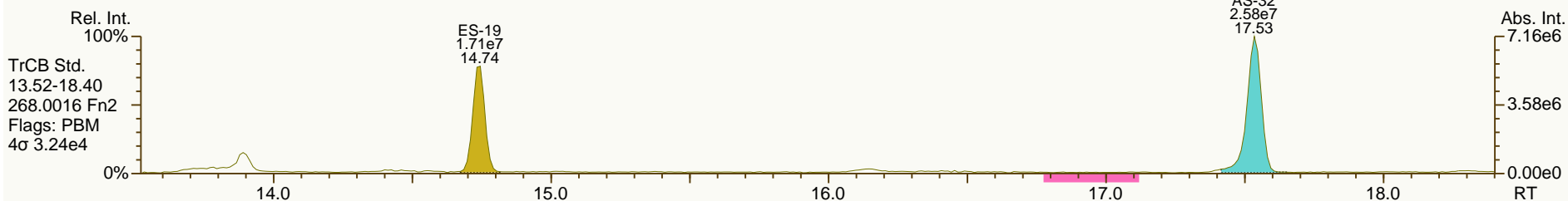
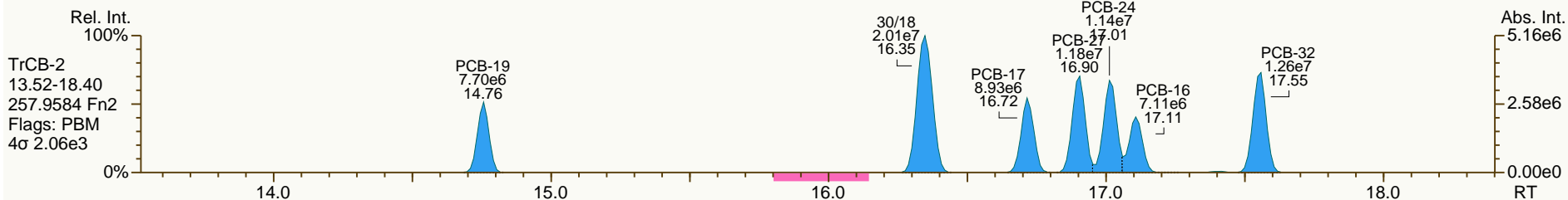
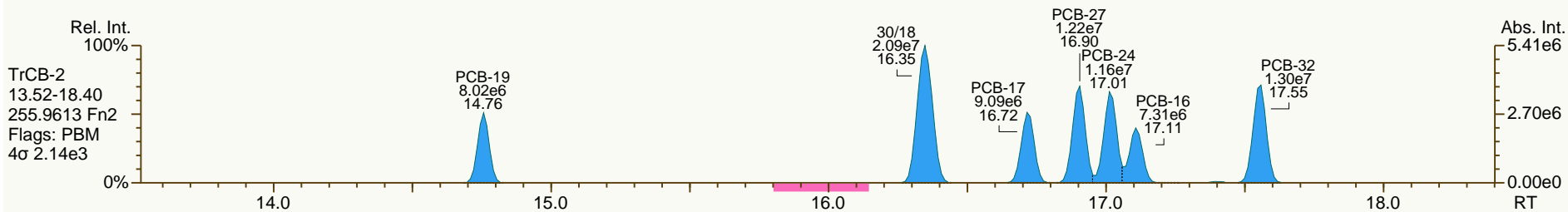
Acq: 14-Oct-2013 15:04:31
 User: CTW Datafile: 131014S03



SGS-AP ID: CS3_131014_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 4

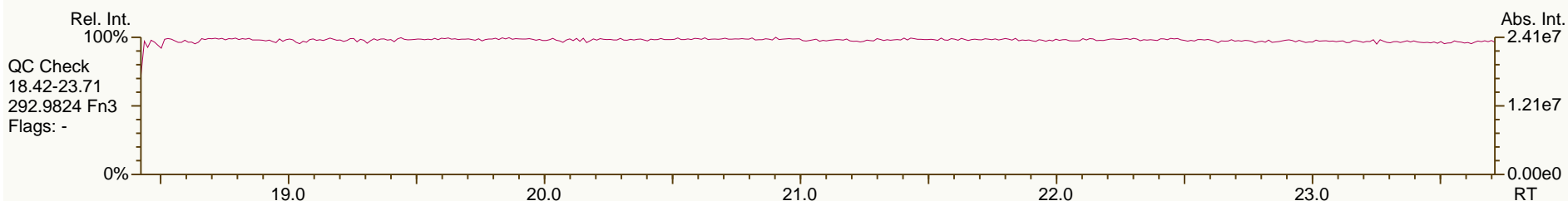
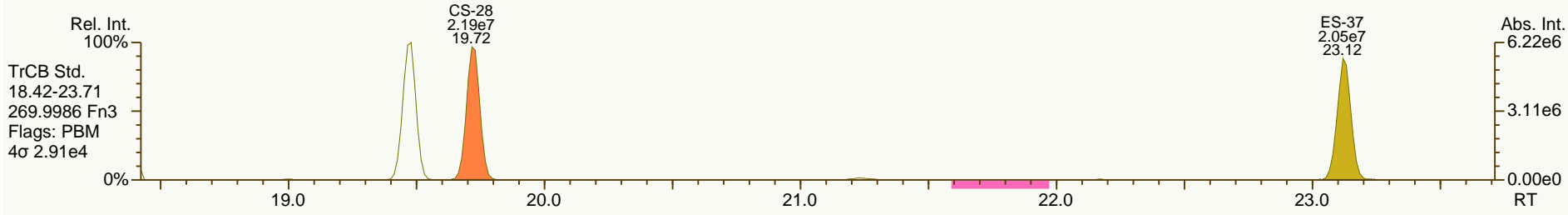
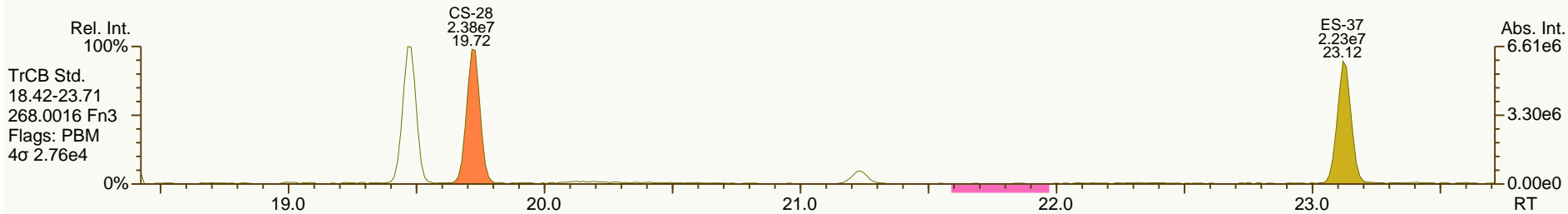
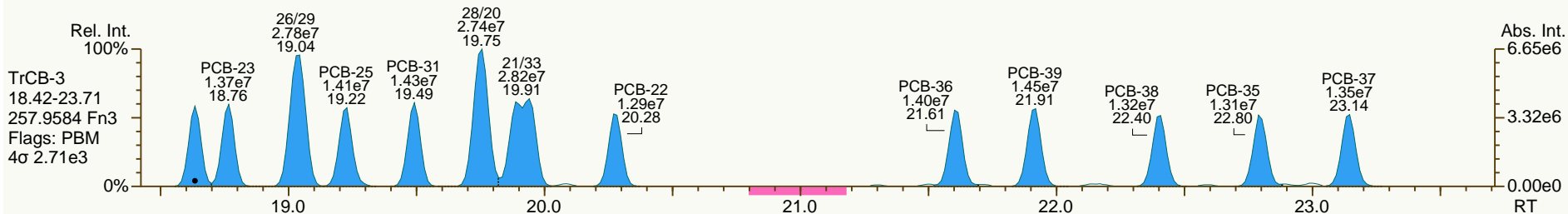
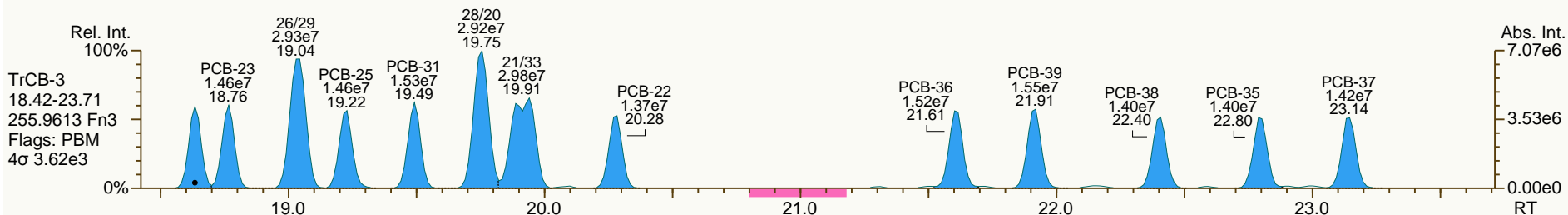
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SGS-AP ID: CS3_131014_PCB_SC
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 4

Acq: 14-Oct-2013 15:04:31
User: CTW Datafile: 131014S03



SGS-AP ID: CS3_131014_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 4

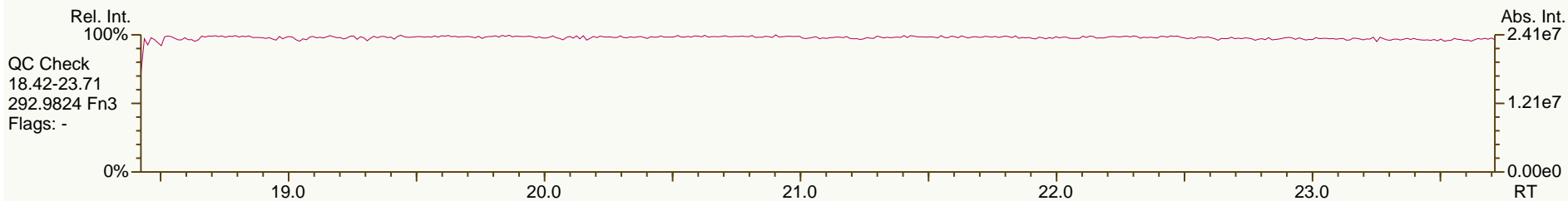
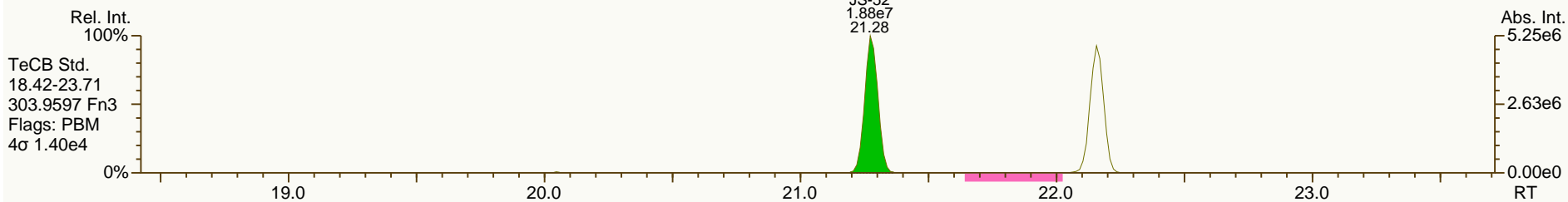
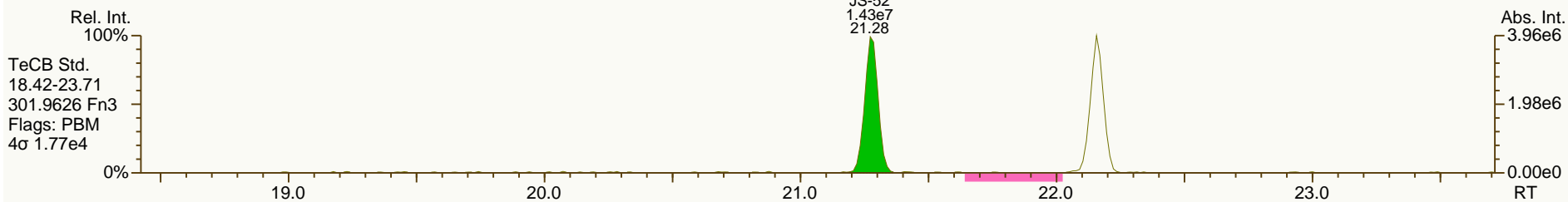
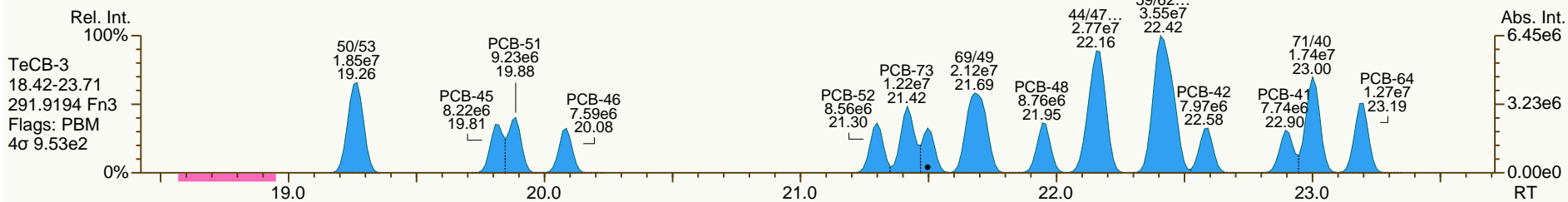
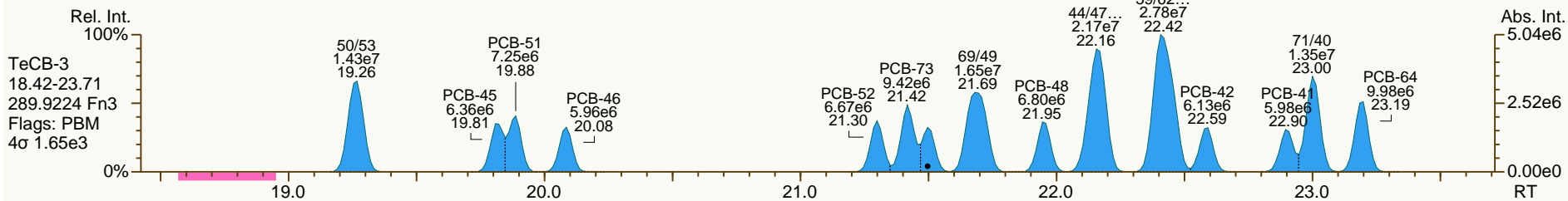
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SGS-AP ID: CS3_131014_PCB_SC
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 4

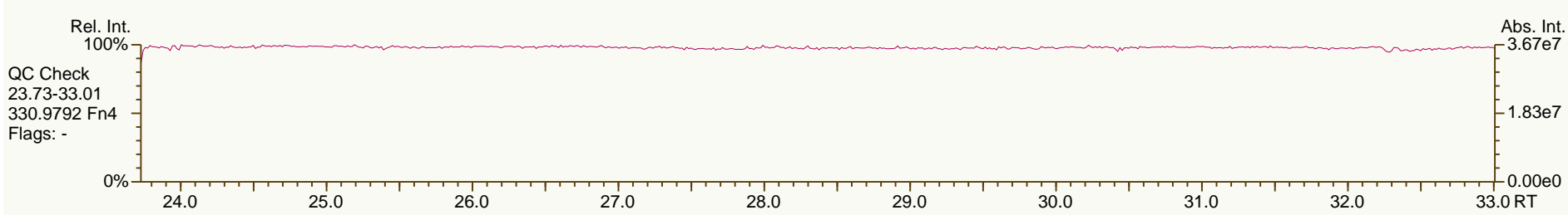
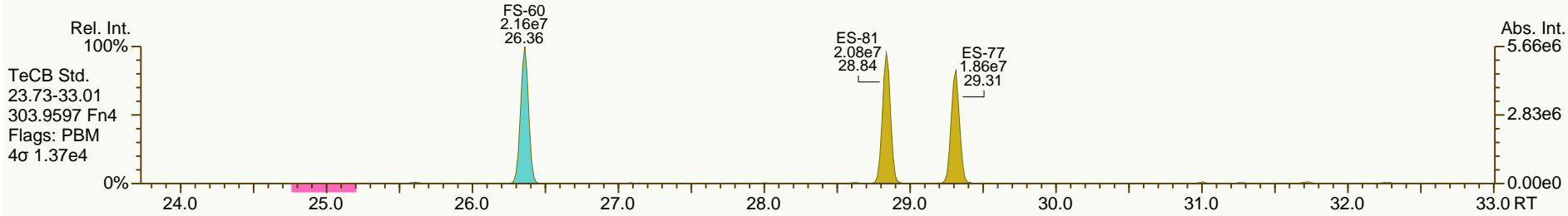
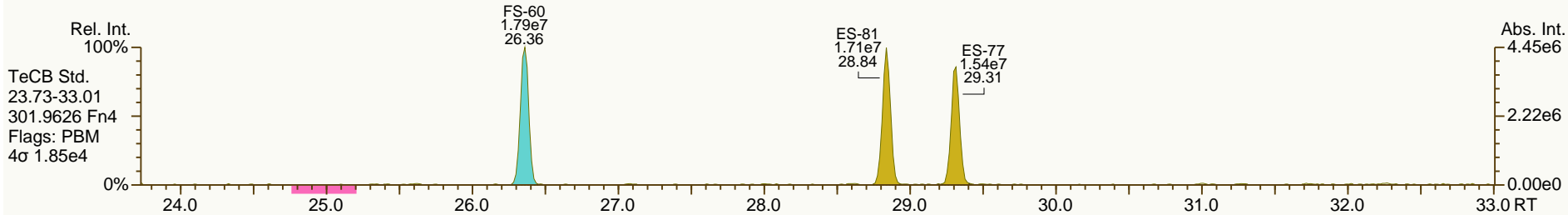
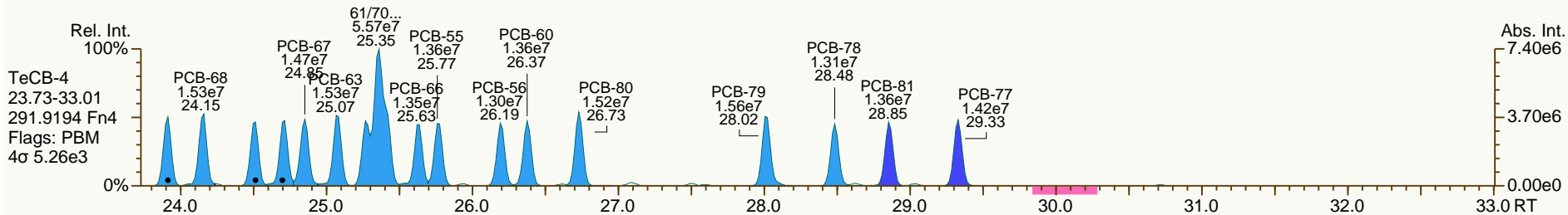
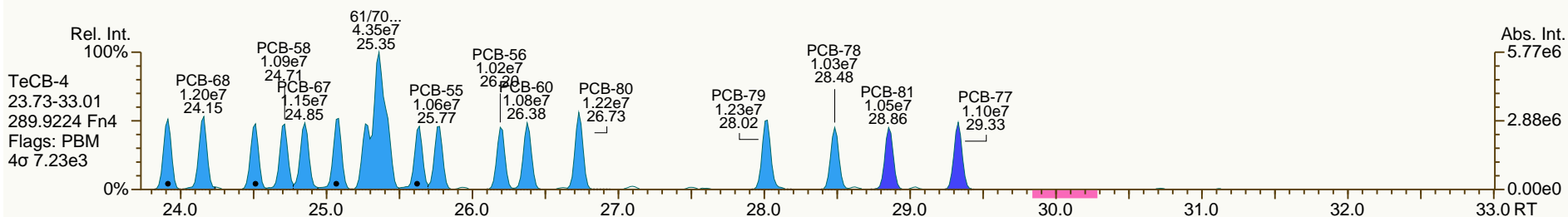
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SGS-AP ID: CS3_131014_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 4

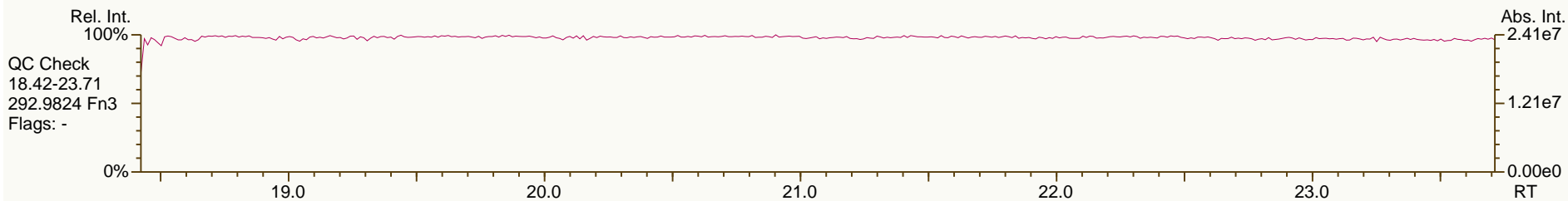
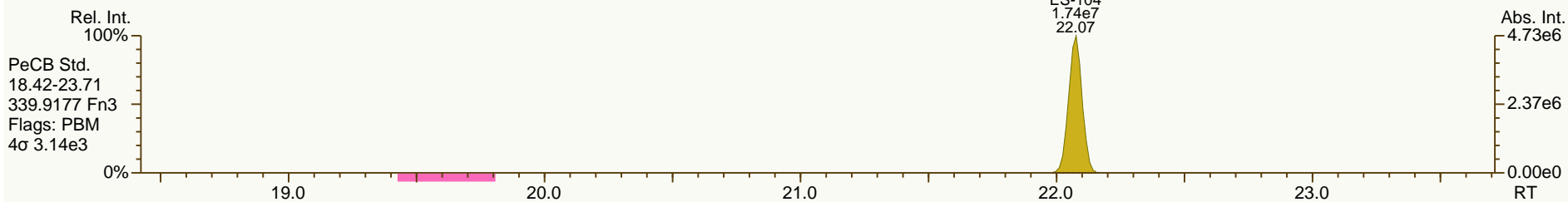
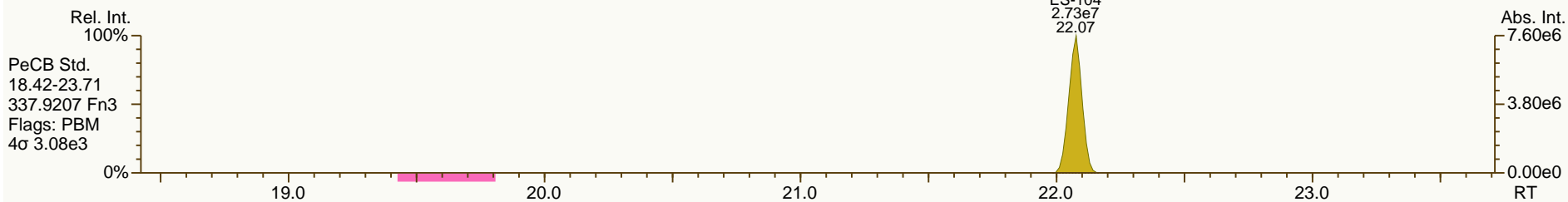
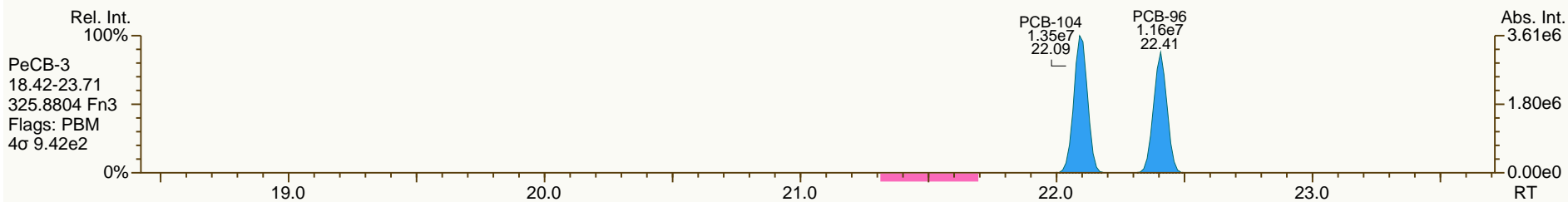
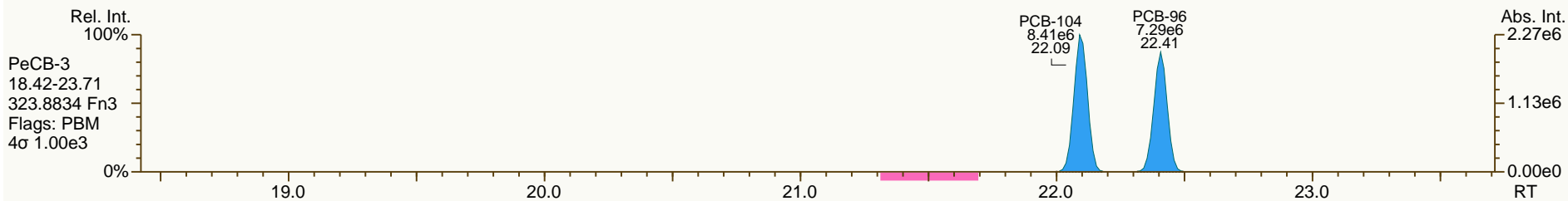
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SGS-AP ID: CS3_131014_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 4

Acq: 14-Oct-2013 15:04:31
 User: CTW Datafile: 131014S03



SGS-AP ID: CS3_131014_PCB_SC
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 4

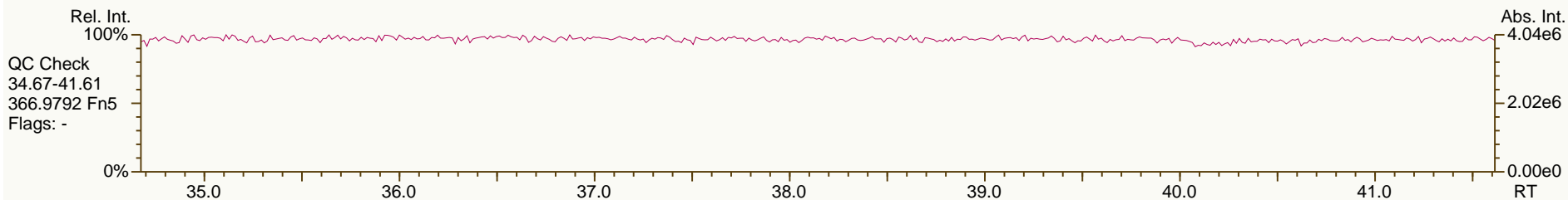
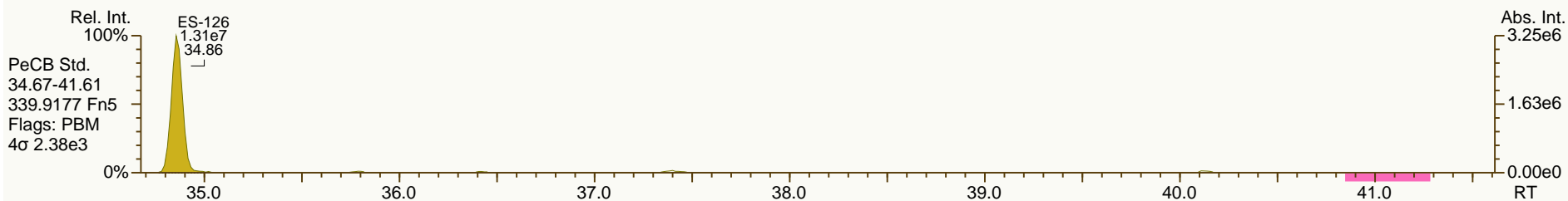
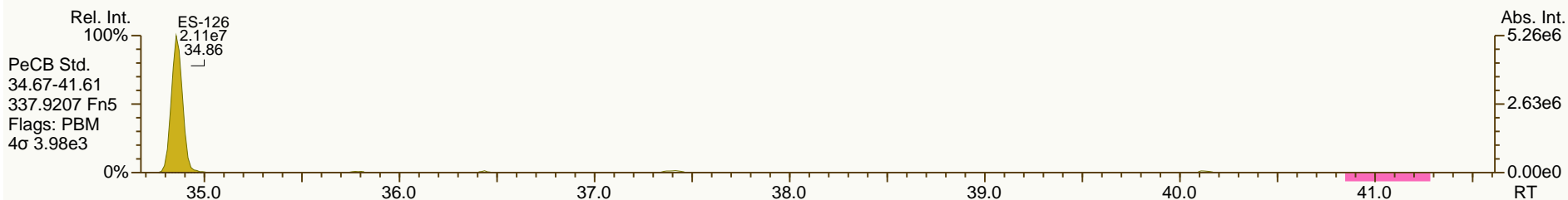
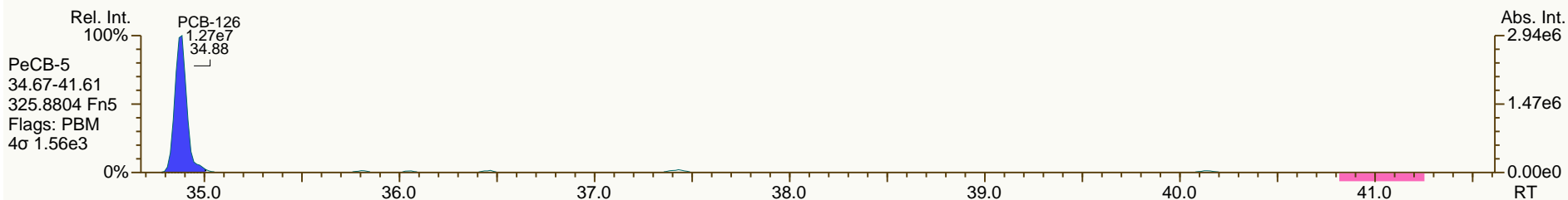
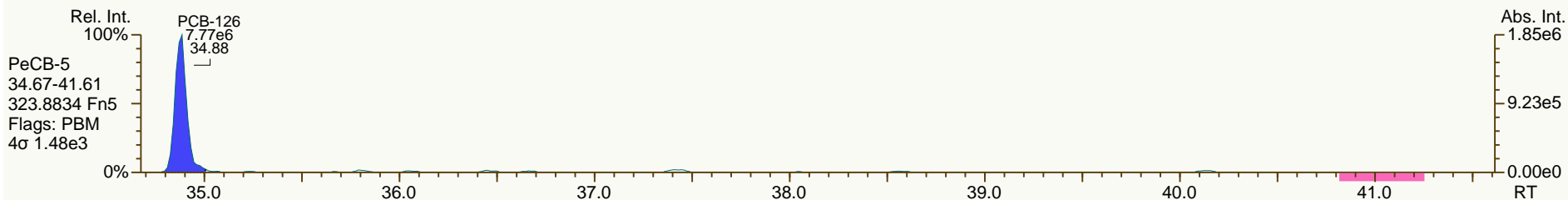
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SGS-AP ID: CS3_131014_PCB_SC
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 4

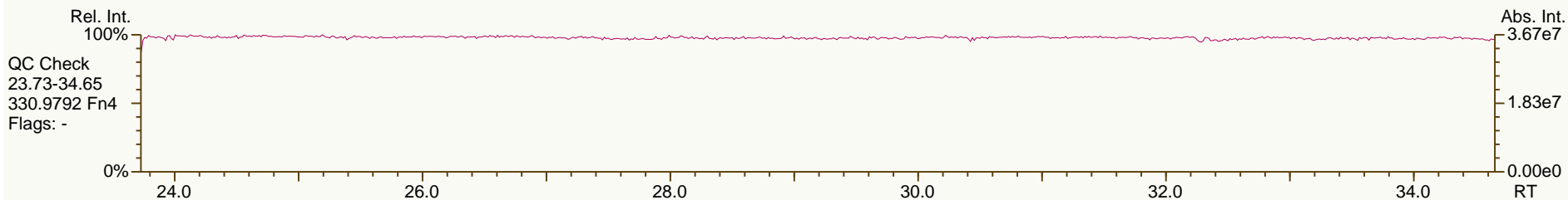
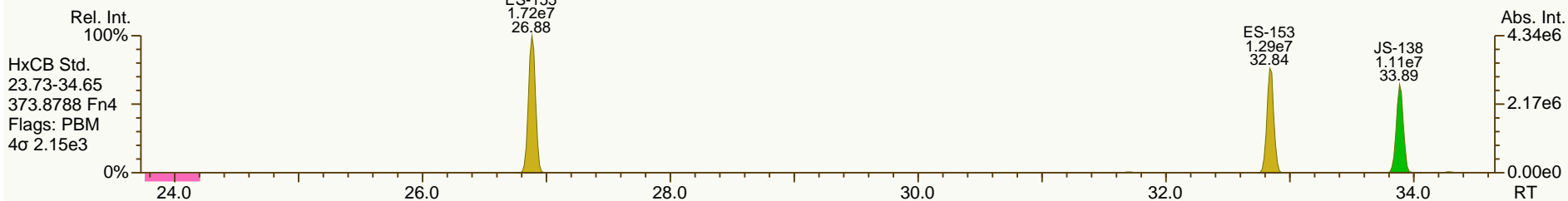
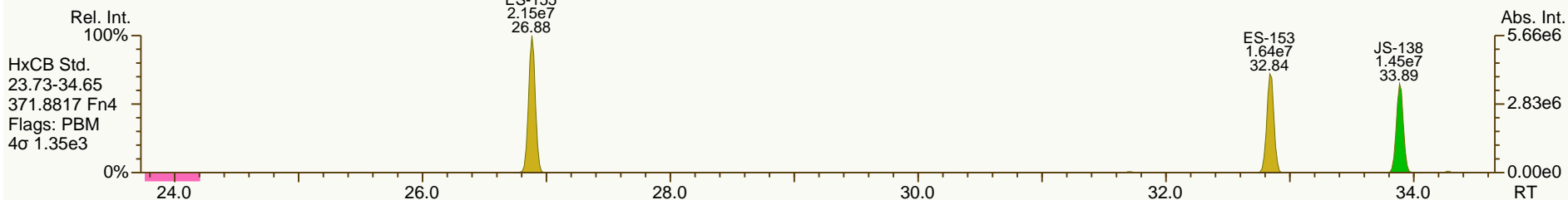
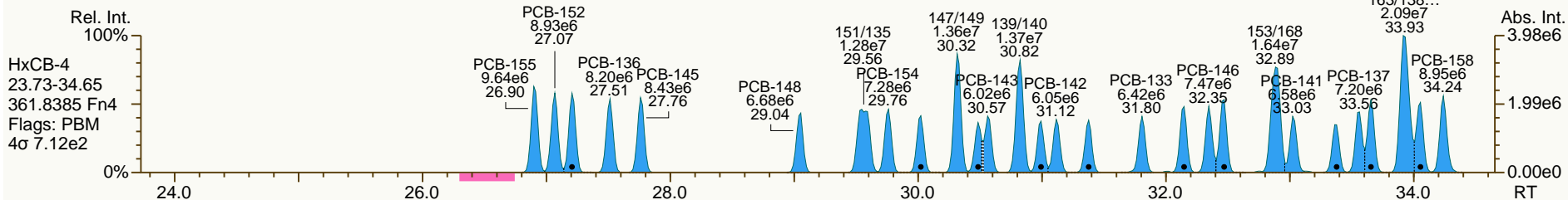
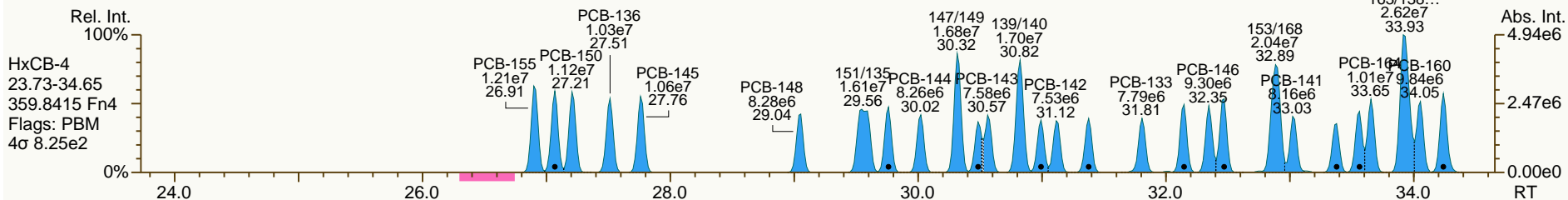
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SGS-AP ID: CS3_131014_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
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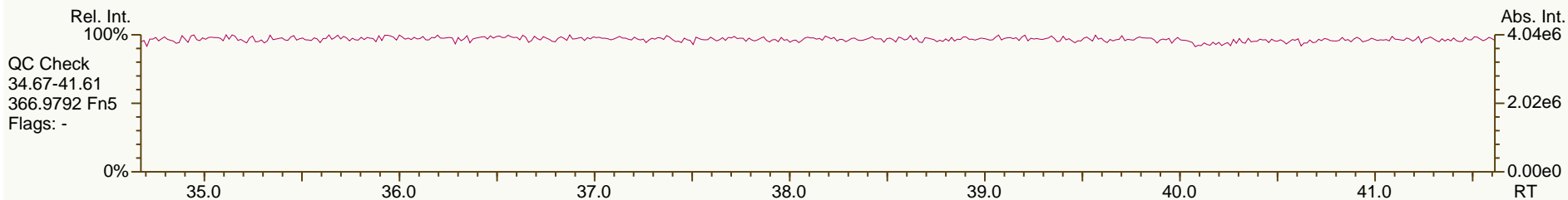
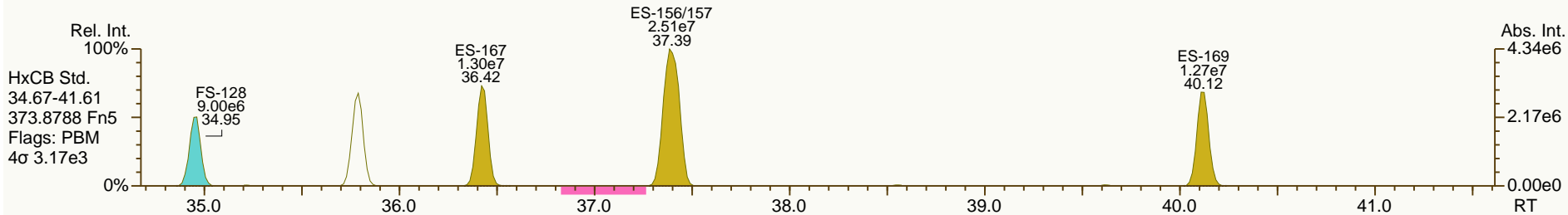
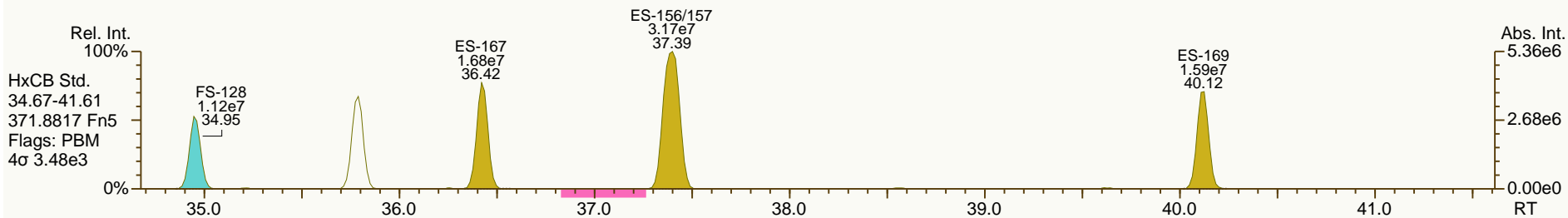
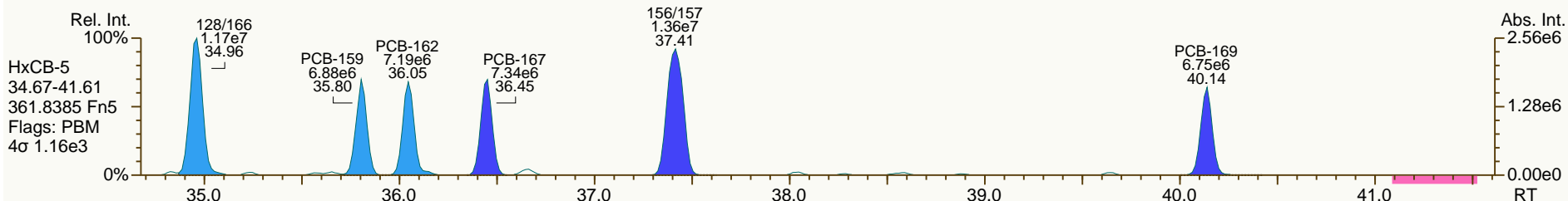
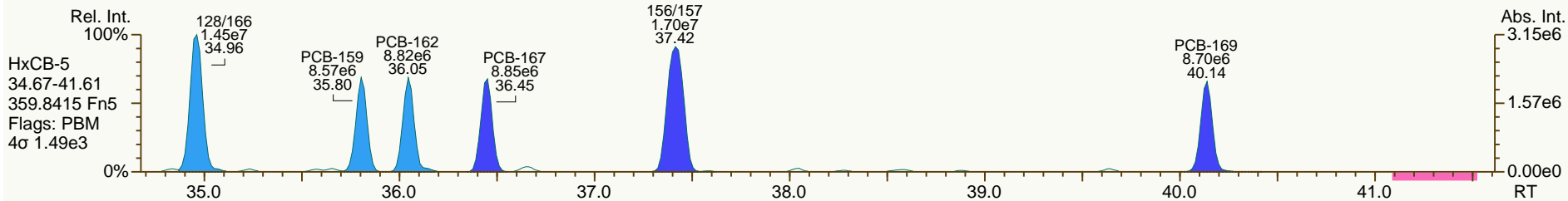
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SGS-AP ID: CS3_131014_PCB_SC
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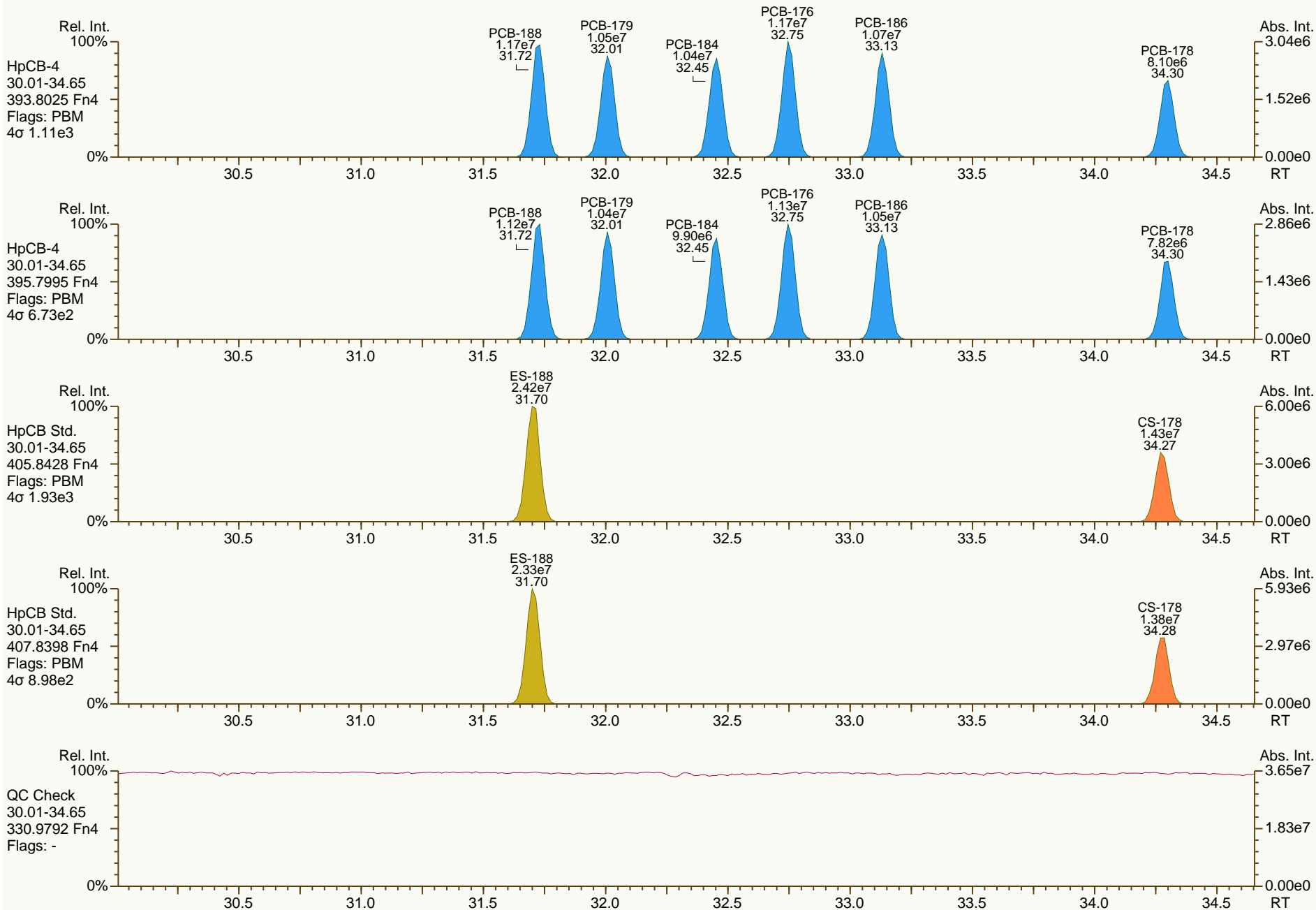
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SGS-AP ID: CS3_131014_PCB_SC
 Instr: AutoSpec-Ultima MM4

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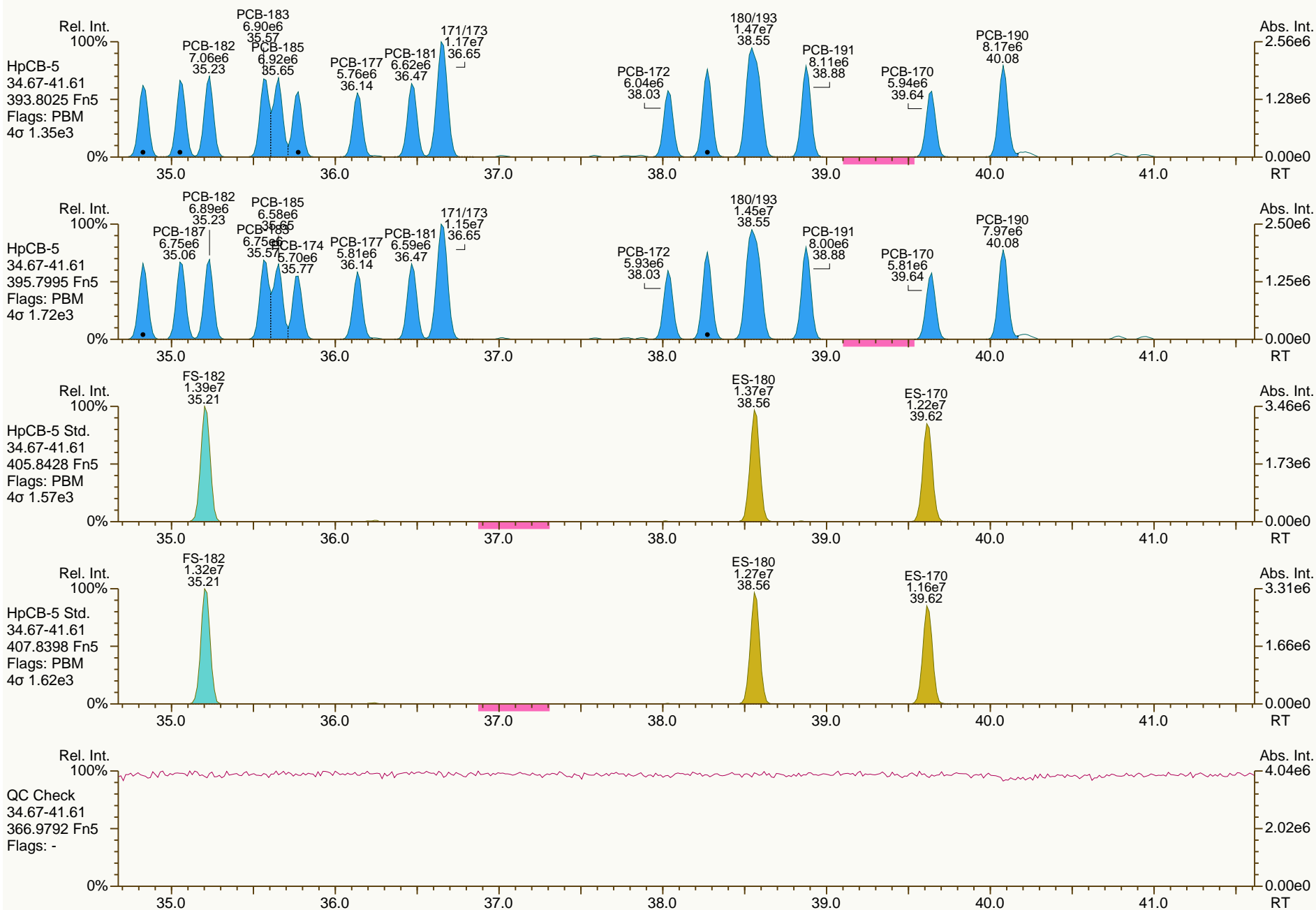
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SGS-AP ID: CS3_131014_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 4

Acq: 14-Oct-2013 15:04:31
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SGS-AP ID: CS3_131014_PCB_SC
 Instr: AutoSpec-Ultima MM4

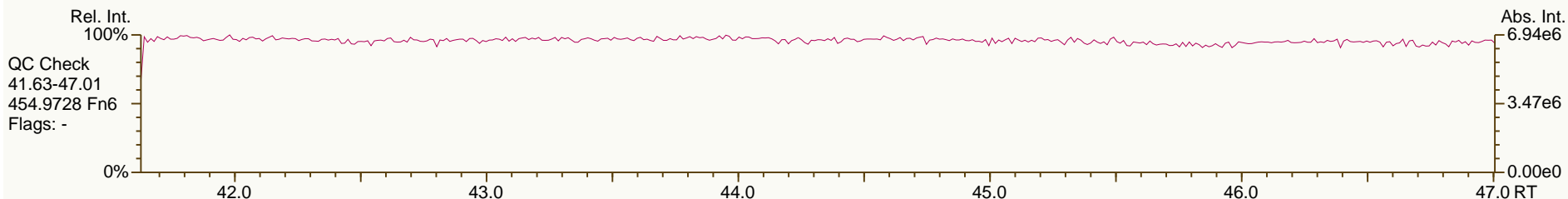
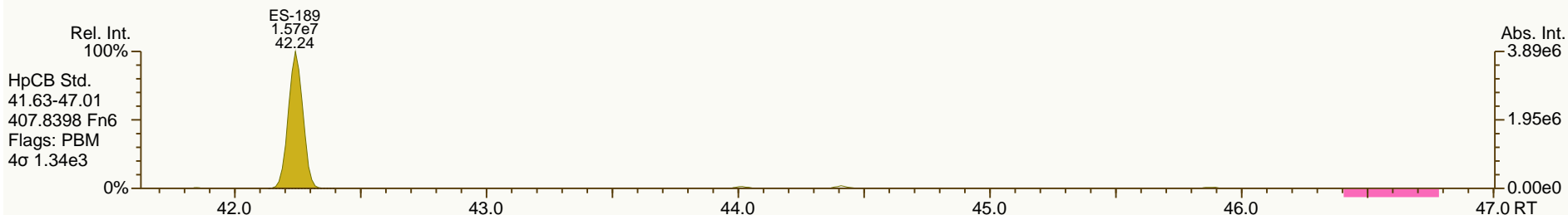
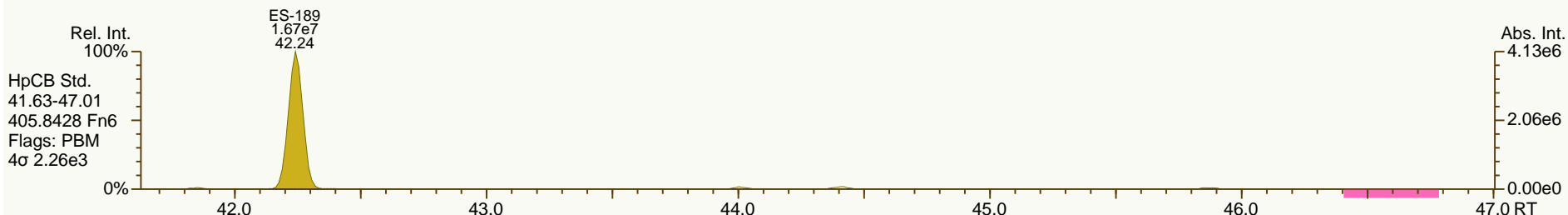
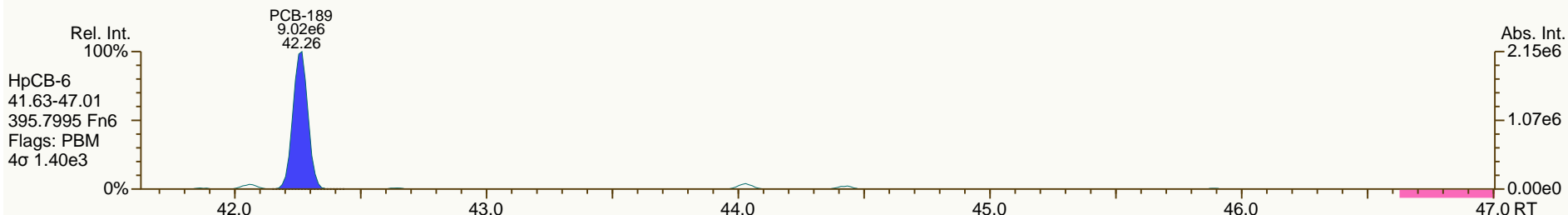
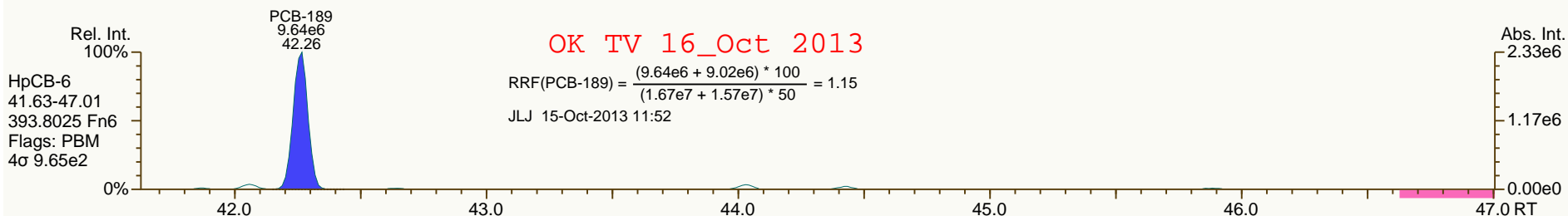
Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 4

Acq: 14-Oct-2013 15:04:31
 User: CTW Datafile: 131014S03

OK TV 16_Oct 2013

$$RRF(PCB-189) = \frac{(9.64e6 + 9.02e6) * 100}{(1.67e7 + 1.57e7) * 50} = 1.15$$

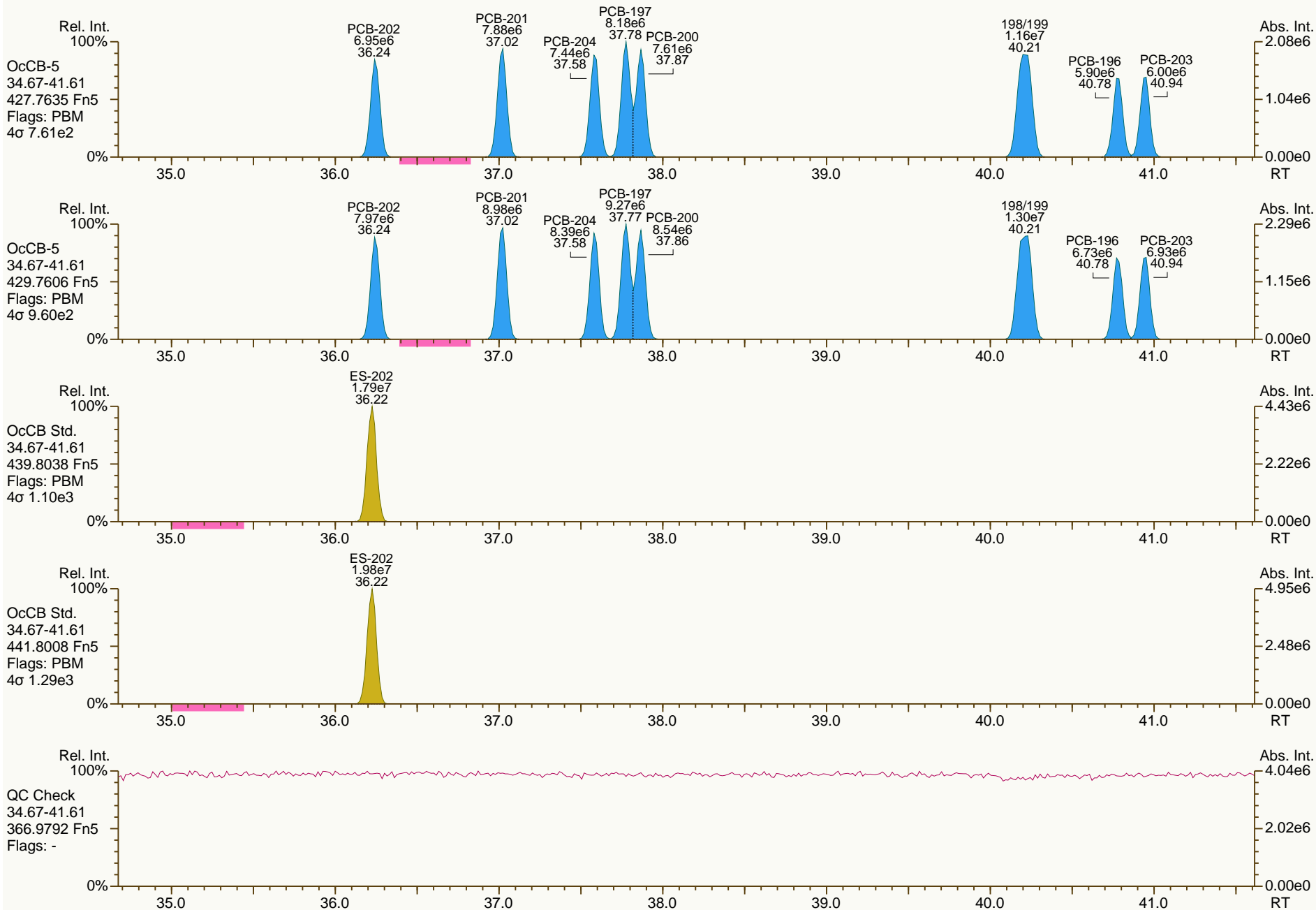
JLJ 15-Oct-2013 11:52



SGS-AP ID: CS3_131014_PCB_SC
 Instr: AutoSpec-Ultima MM4

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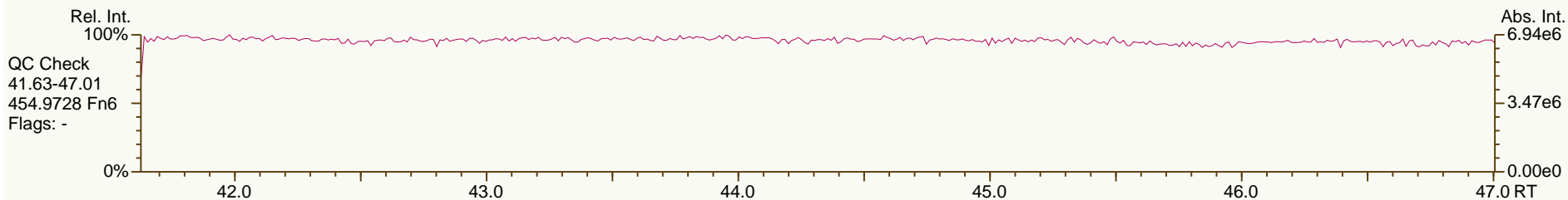
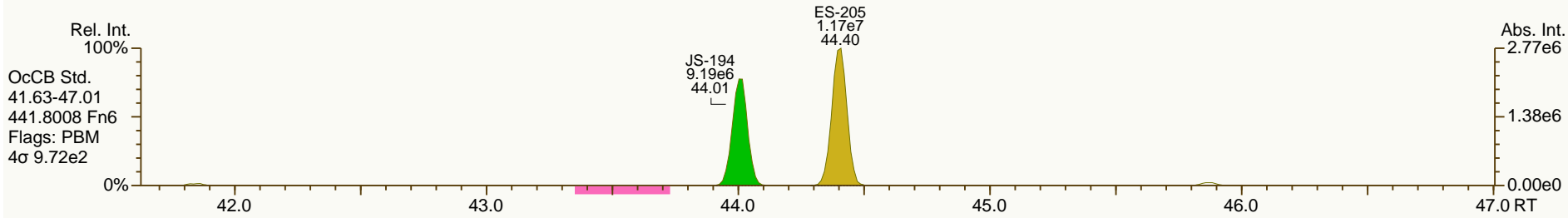
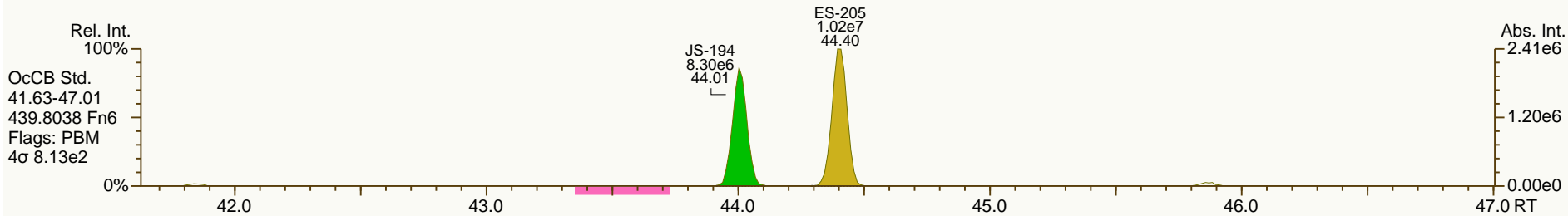
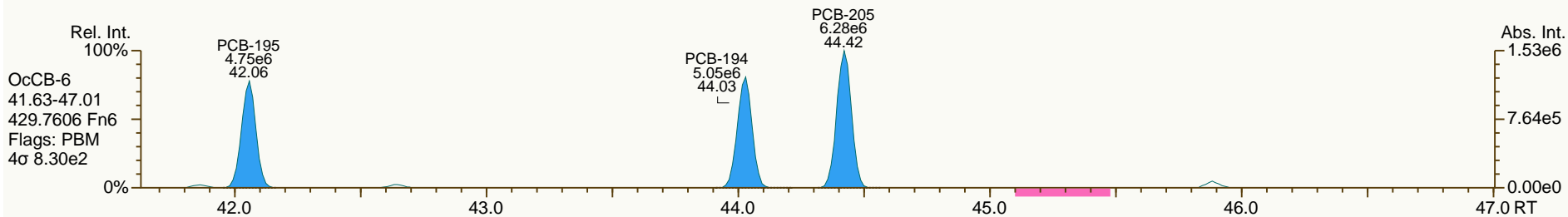
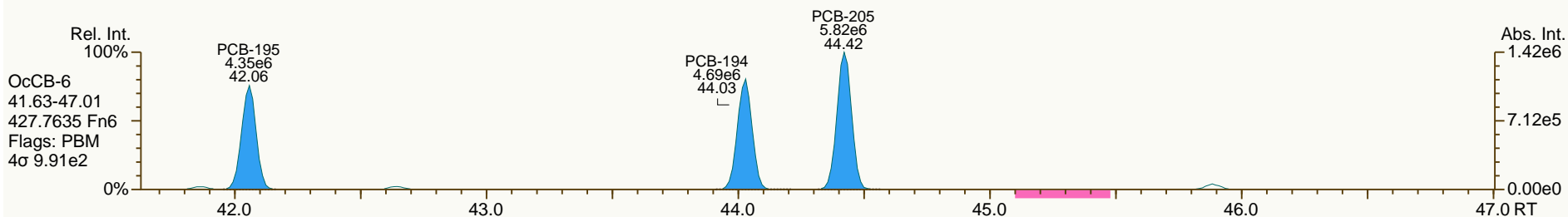
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SGS-AP ID: CS3_131014_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
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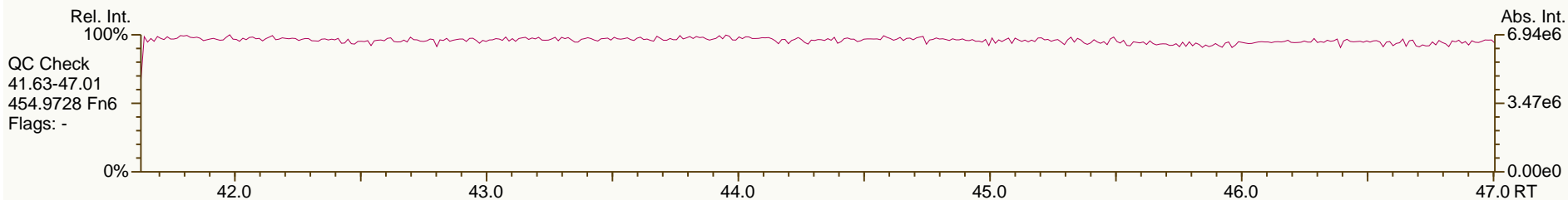
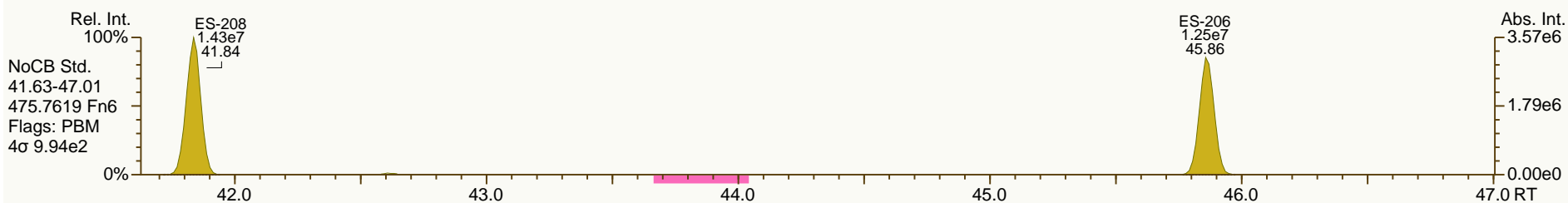
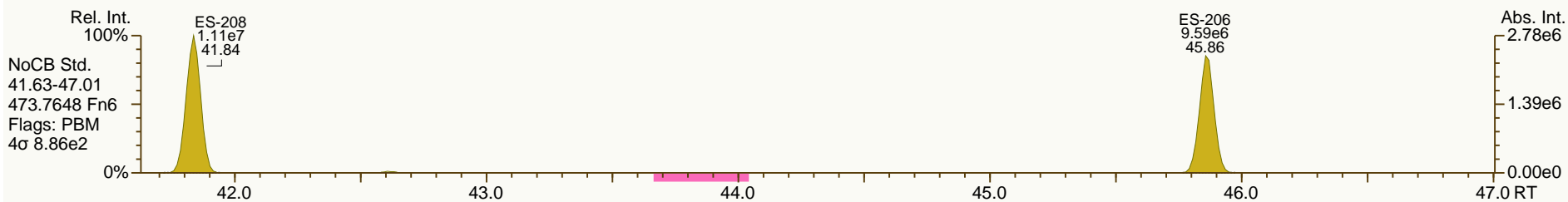
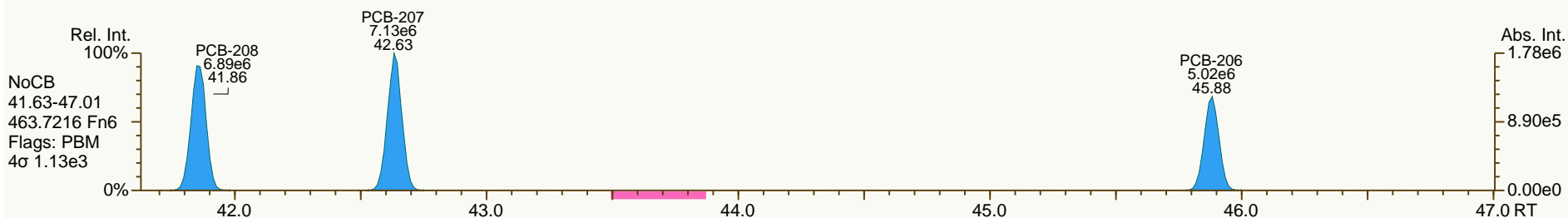
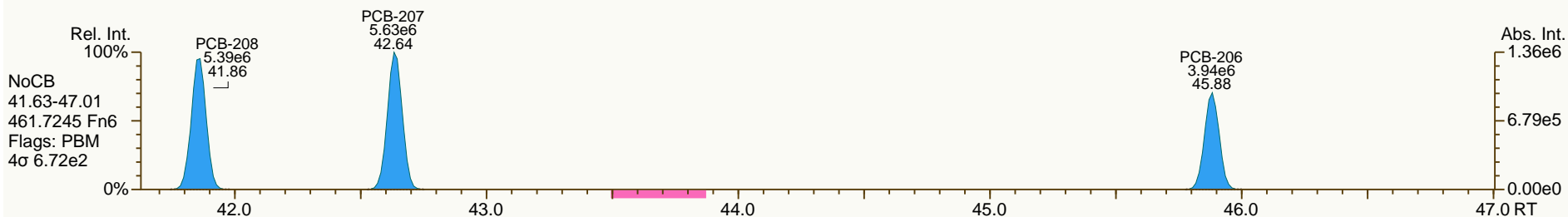
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SGS-AP ID: CS3_131014_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 4

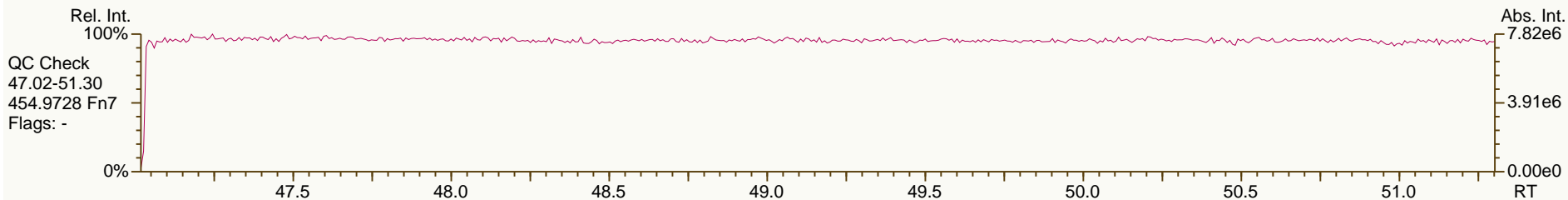
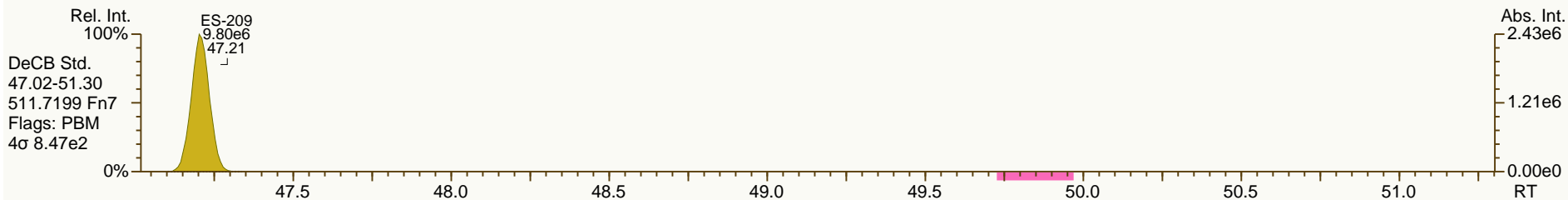
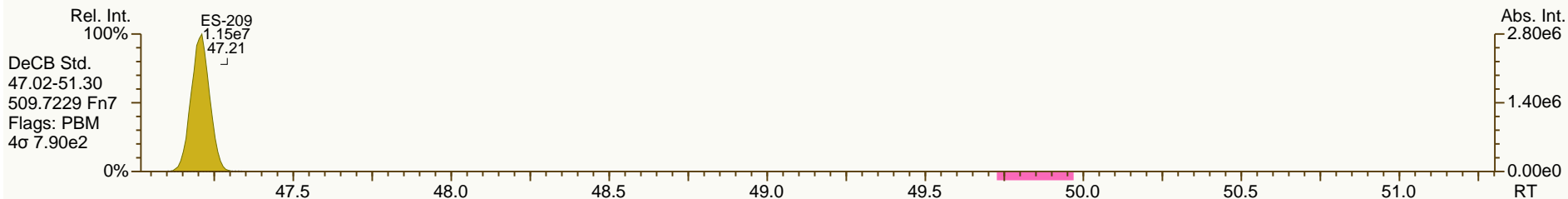
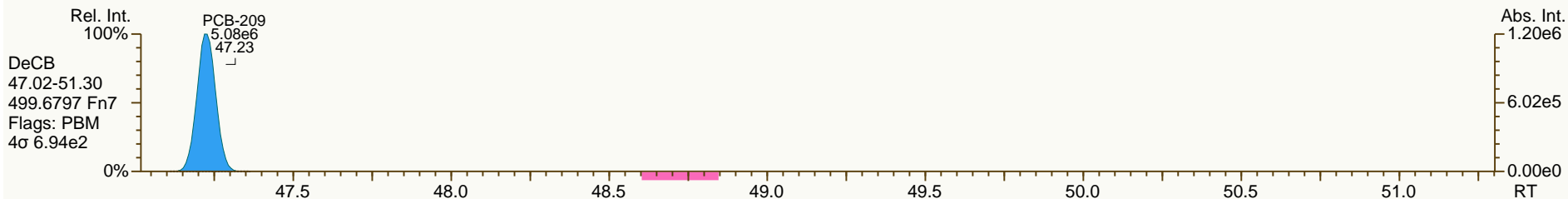
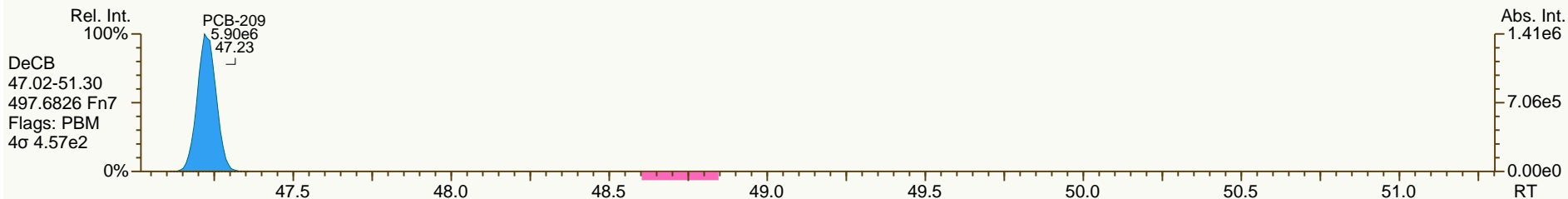
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SGS-AP ID: CS3_131014_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
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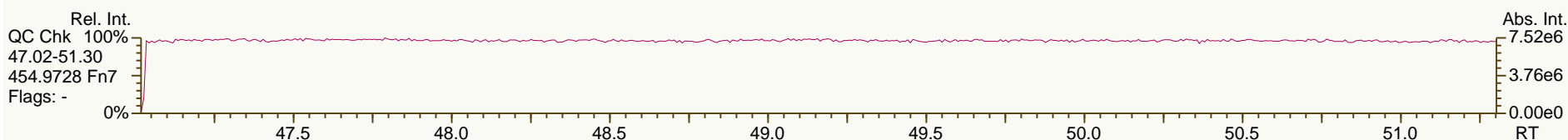
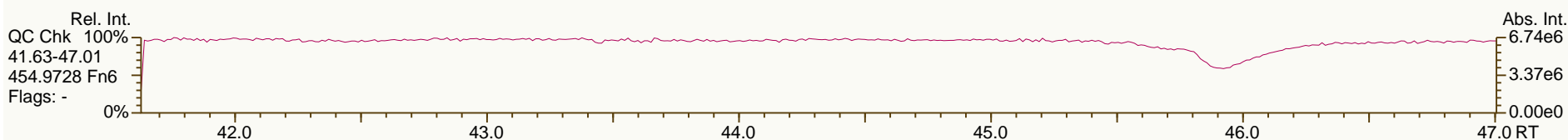
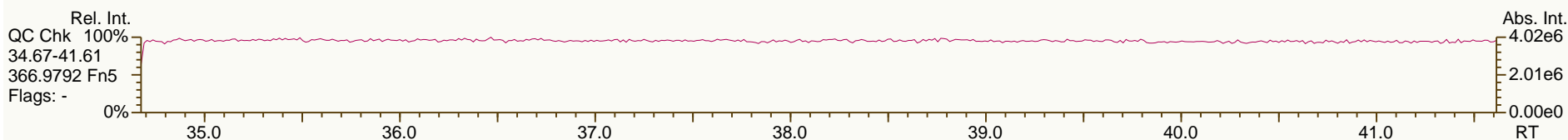
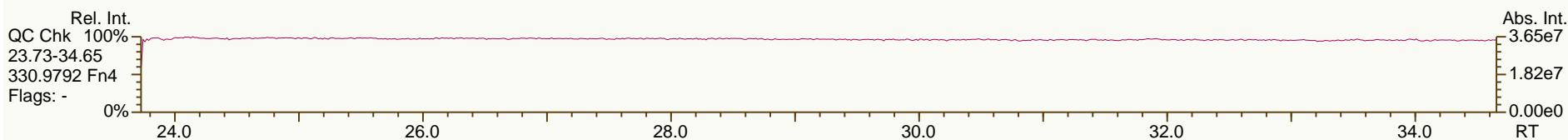
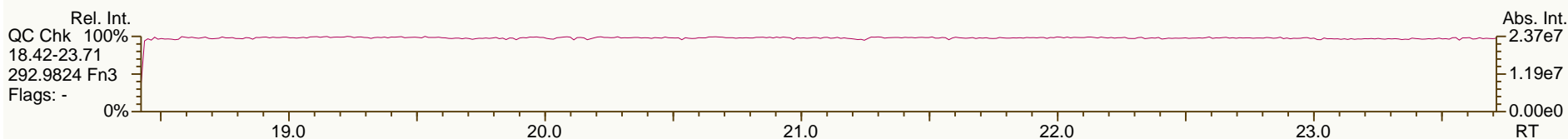
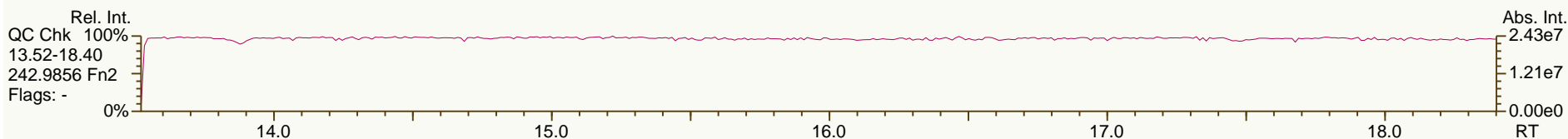
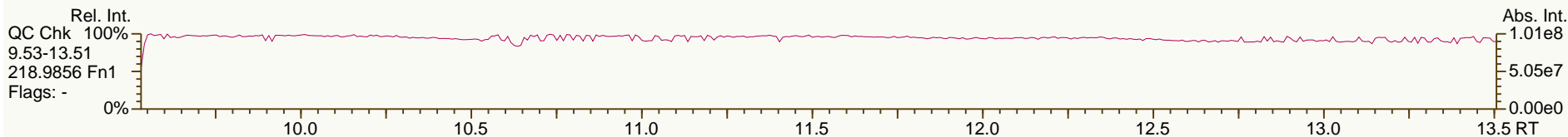
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SGS-AP ID: SBS_131014_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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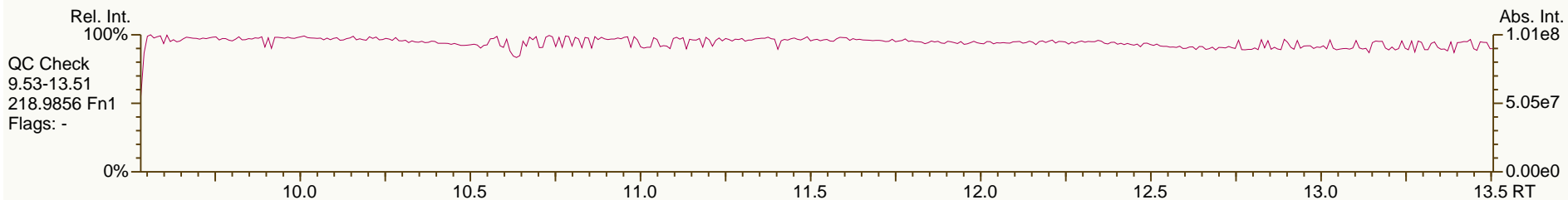
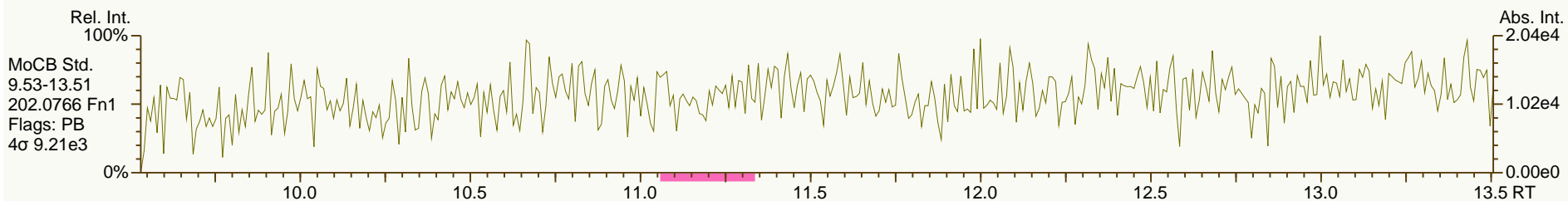
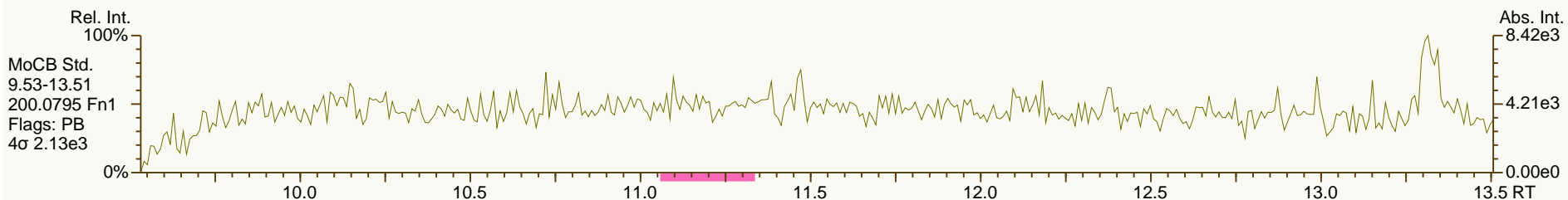
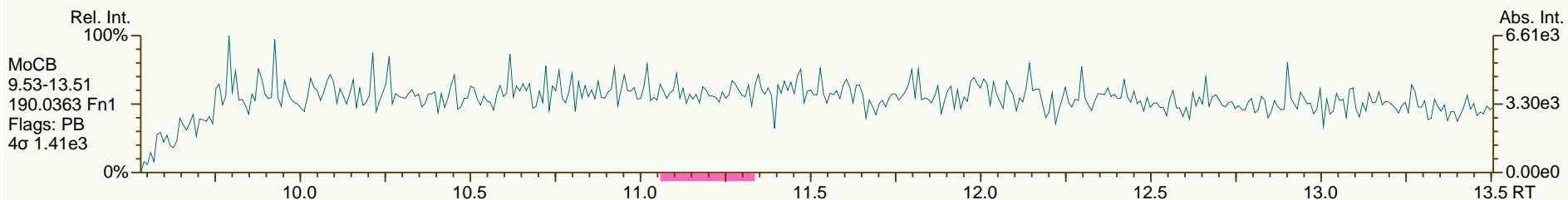
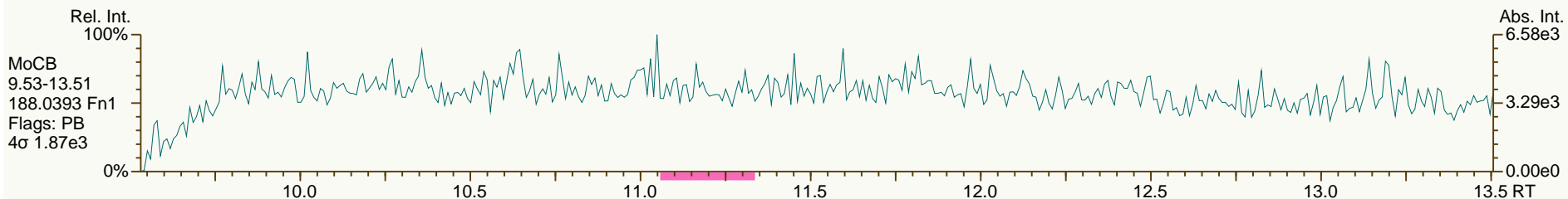
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SGS-AP ID: SBS_131014_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

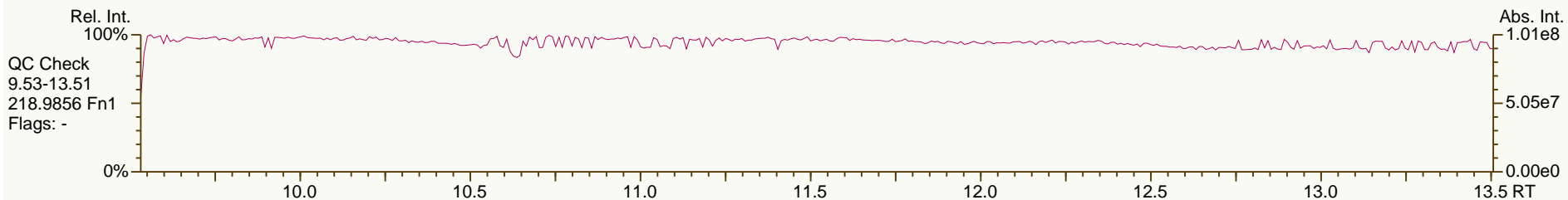
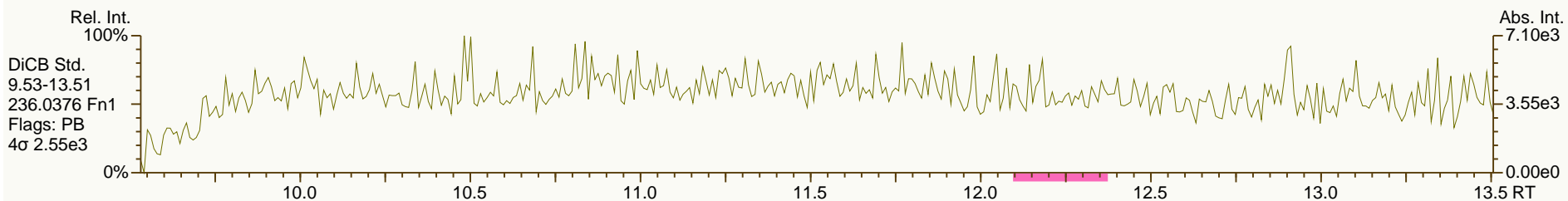
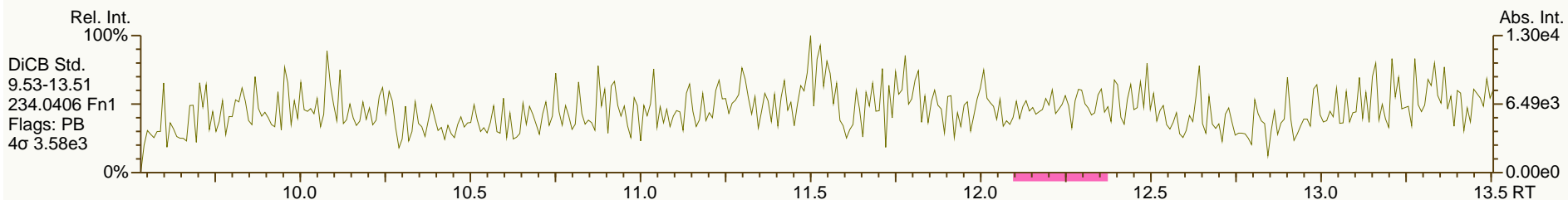
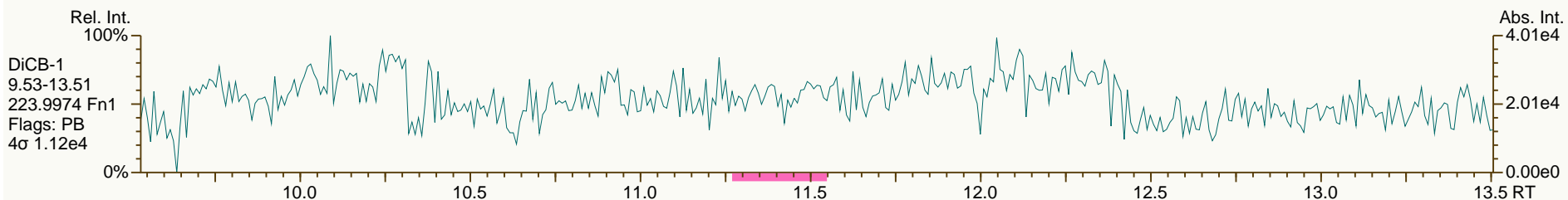
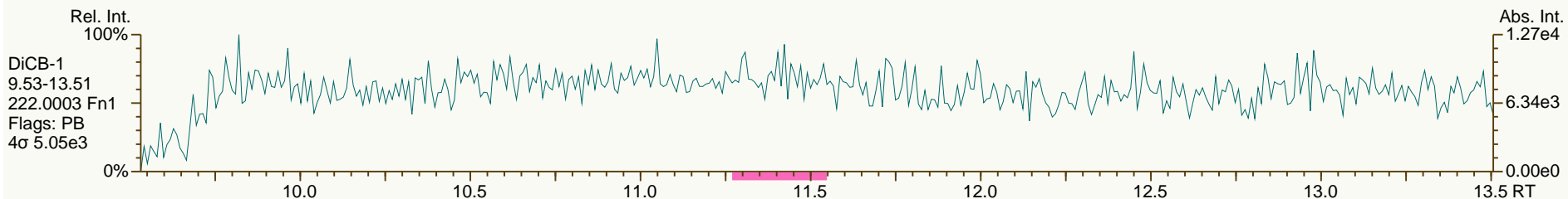
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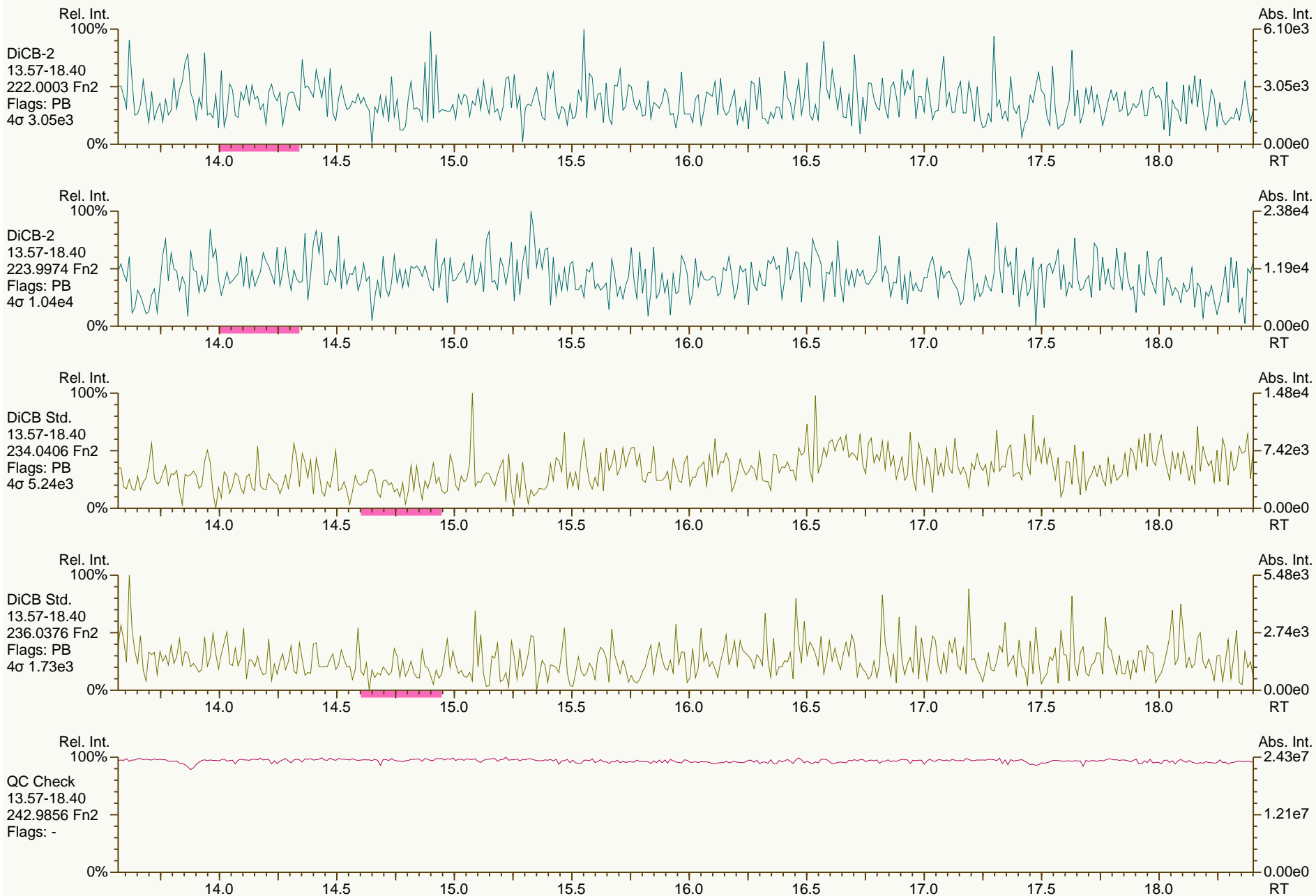
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SGS-AP ID: SBS_131014_PCB_SB
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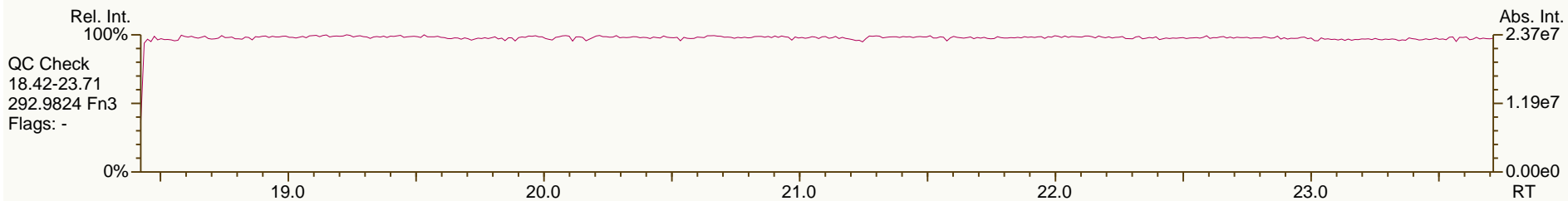
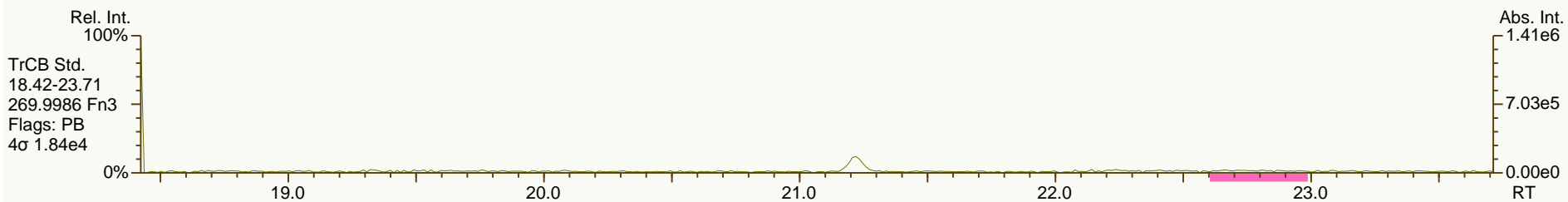
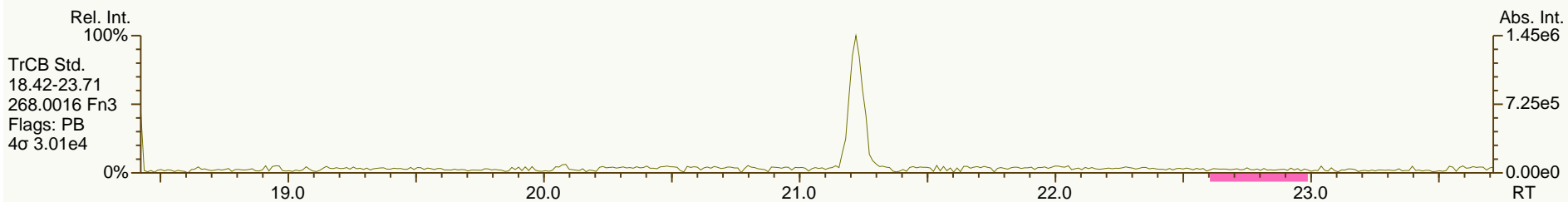
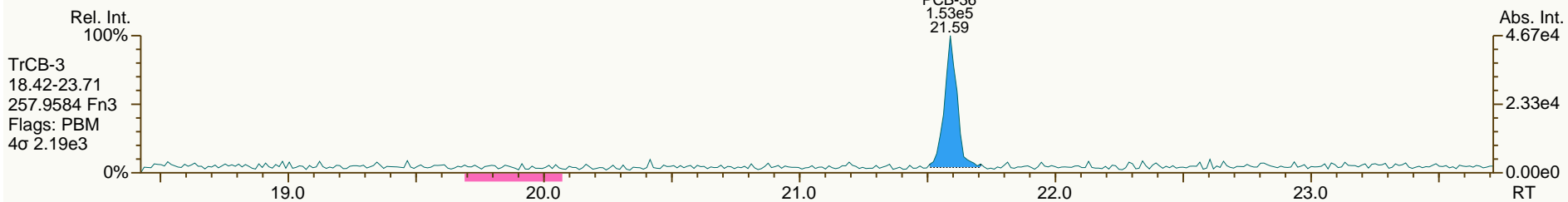
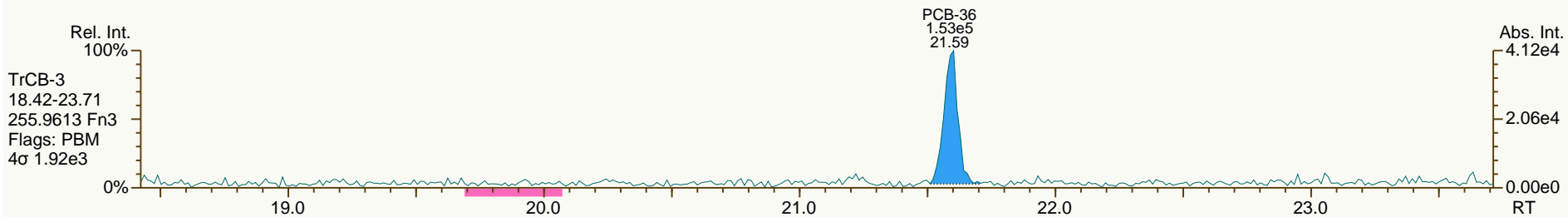
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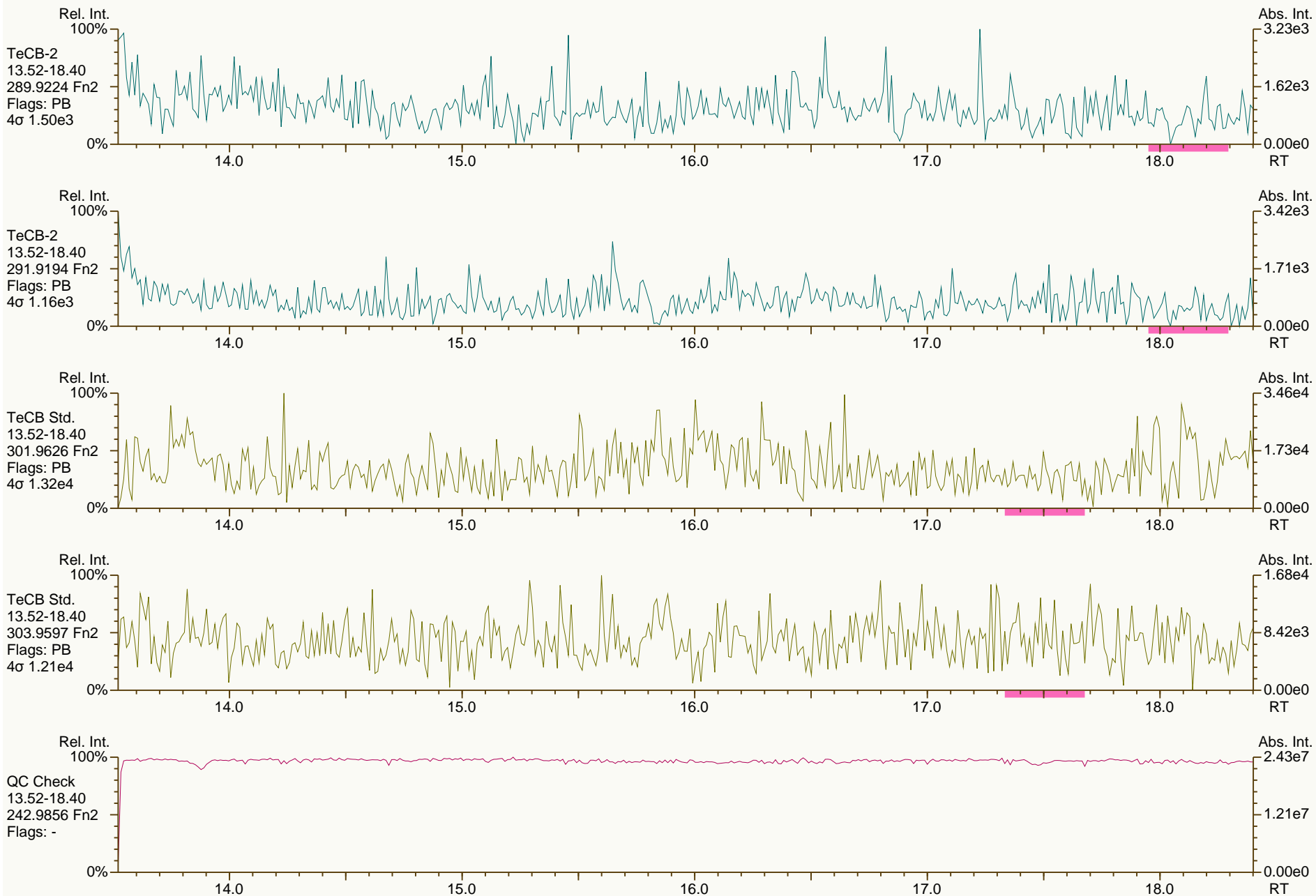
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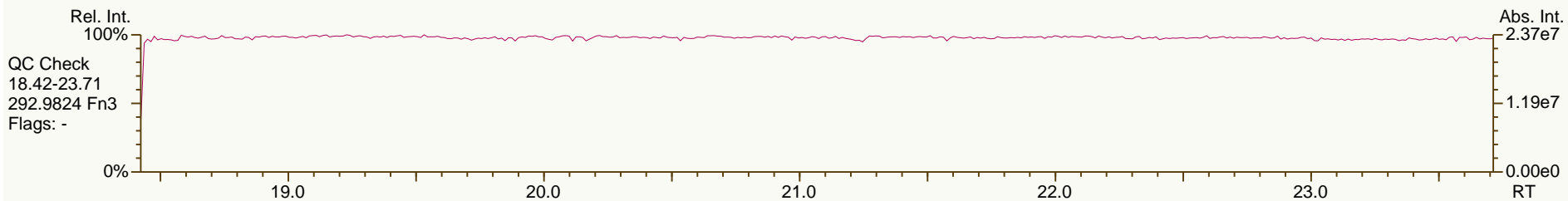
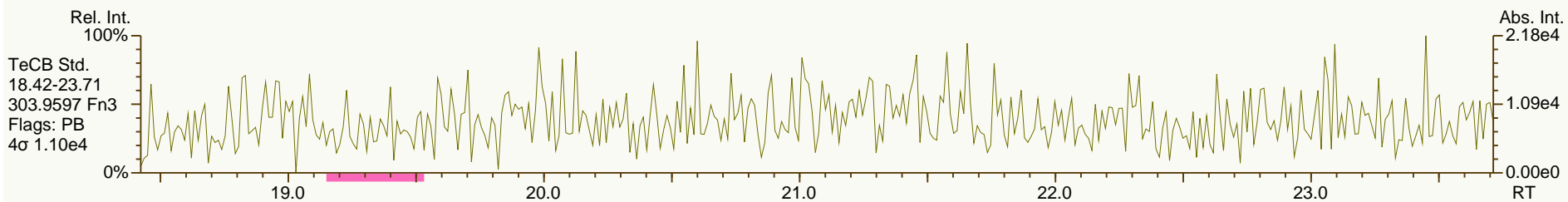
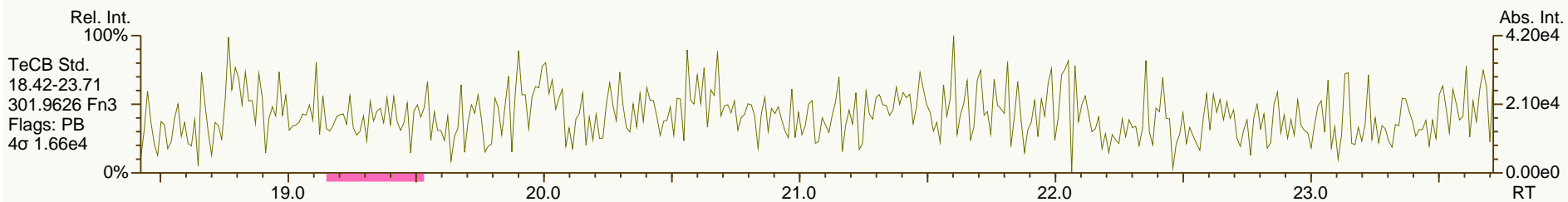
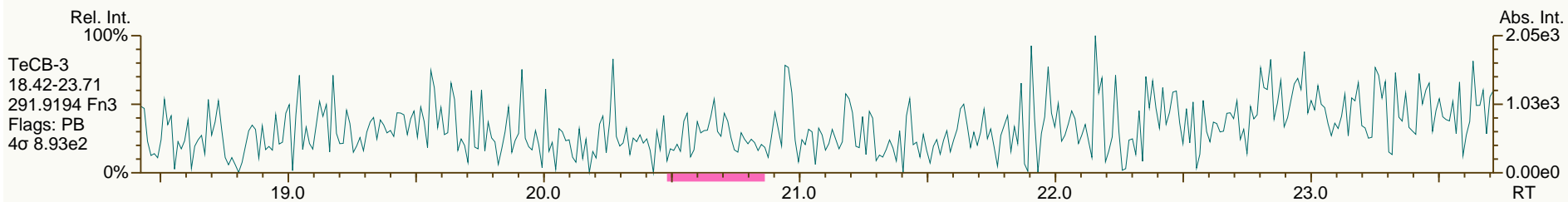
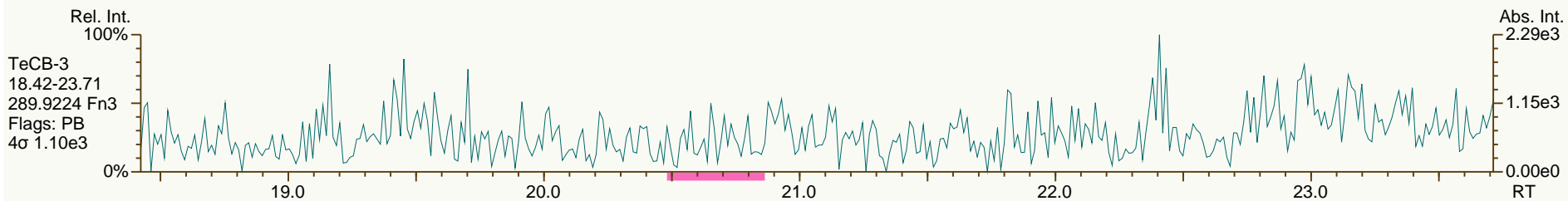
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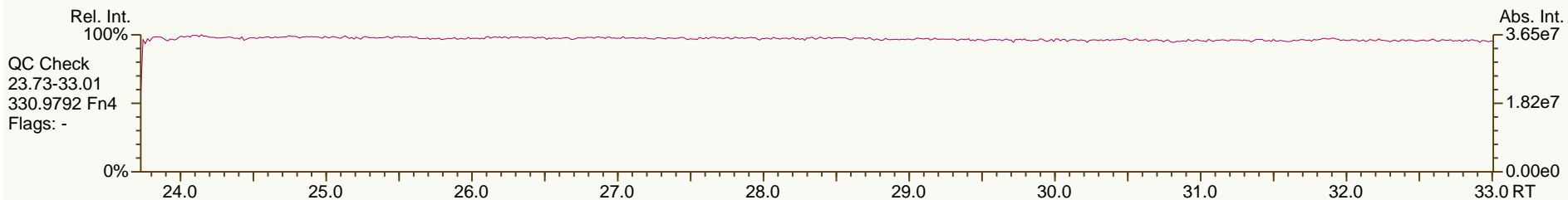
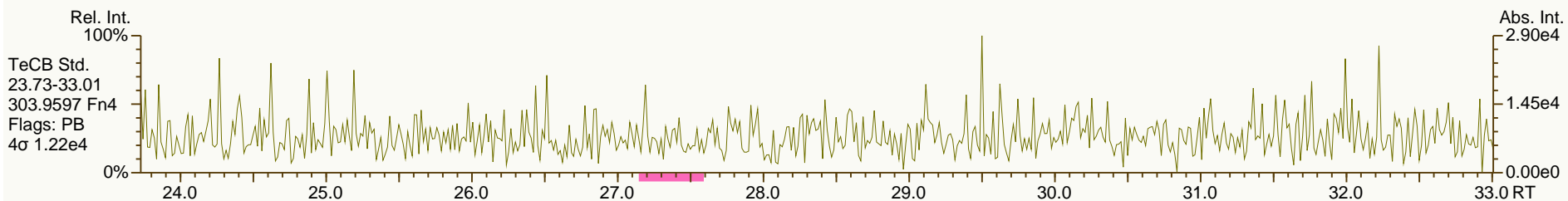
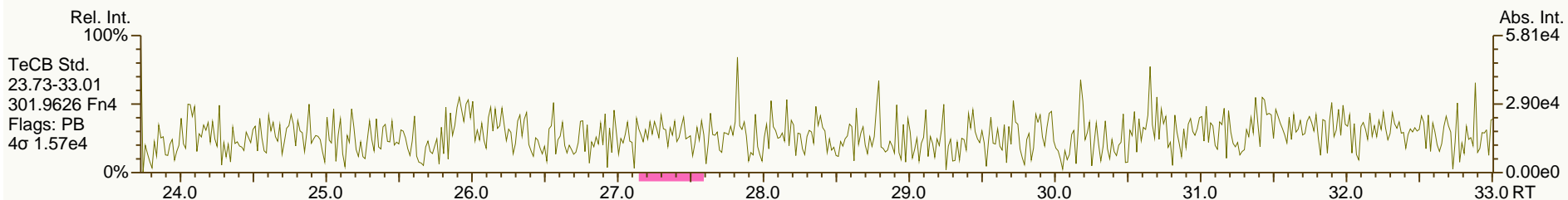
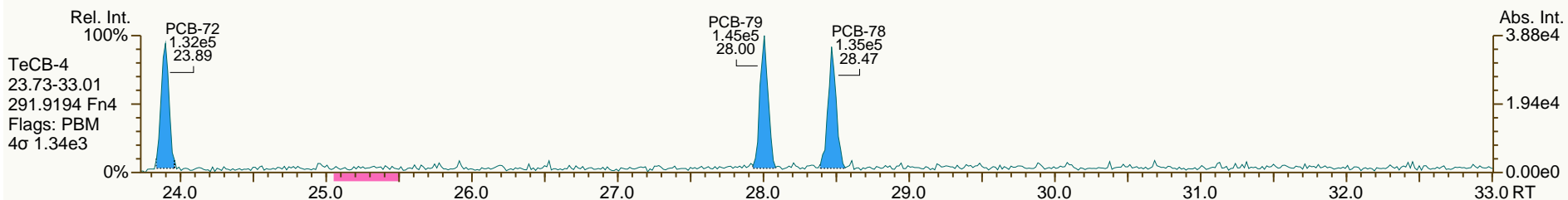
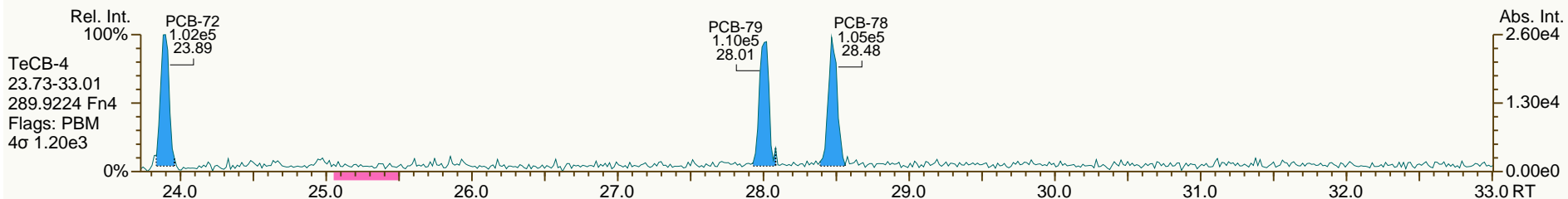
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Sample ID: SIL9-41-1
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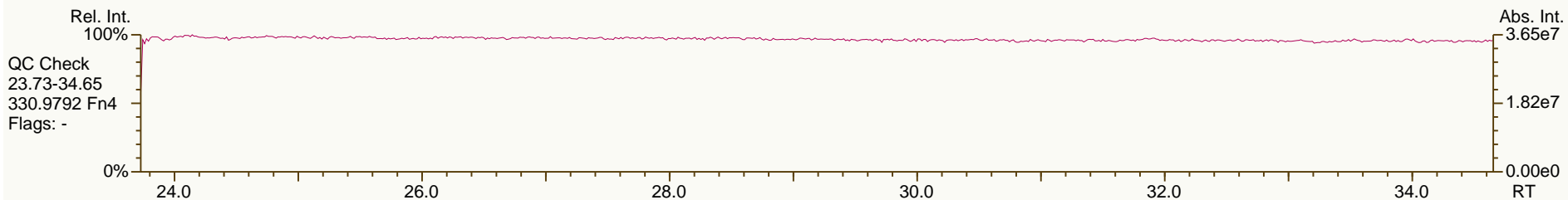
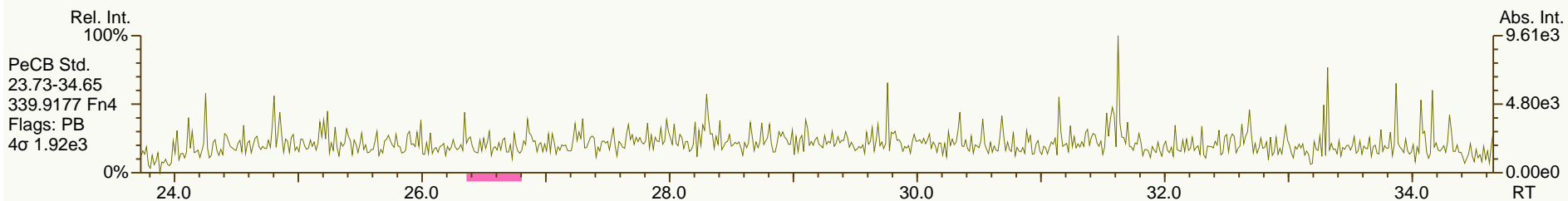
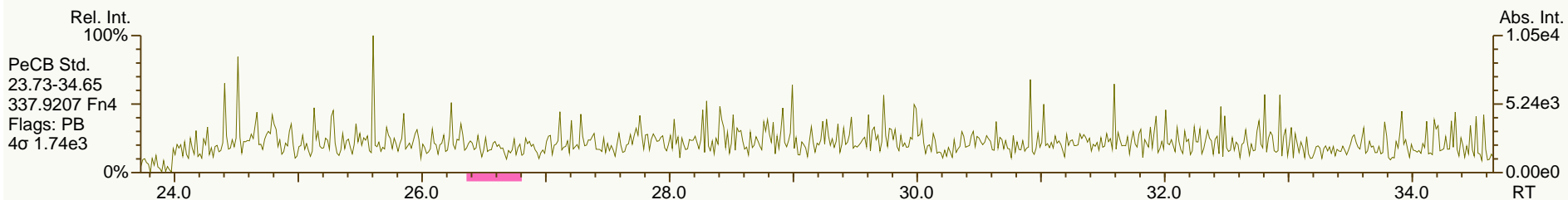
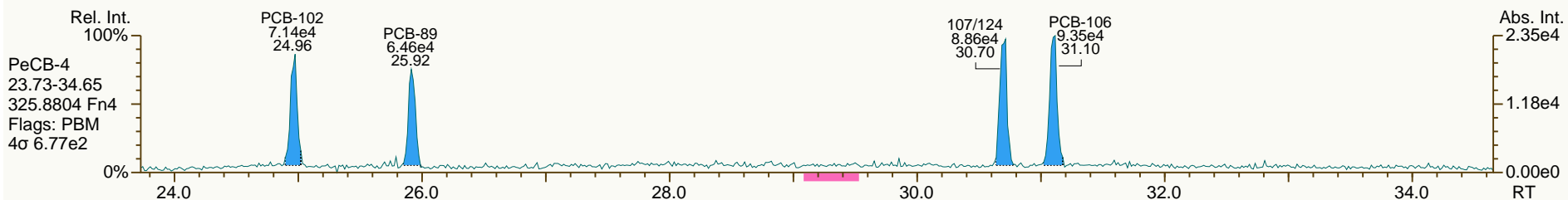
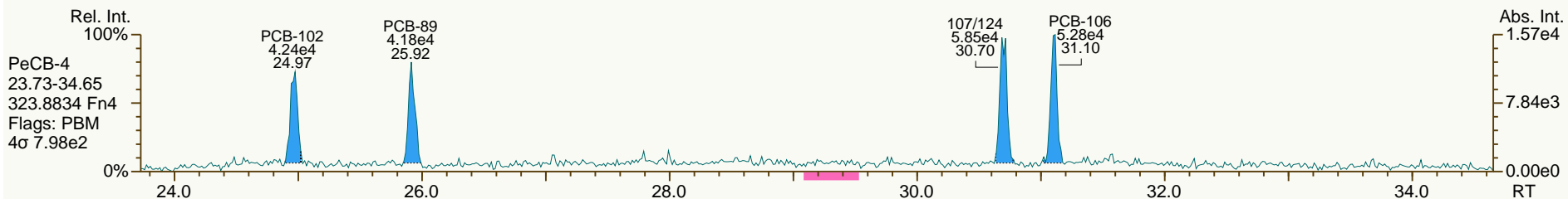
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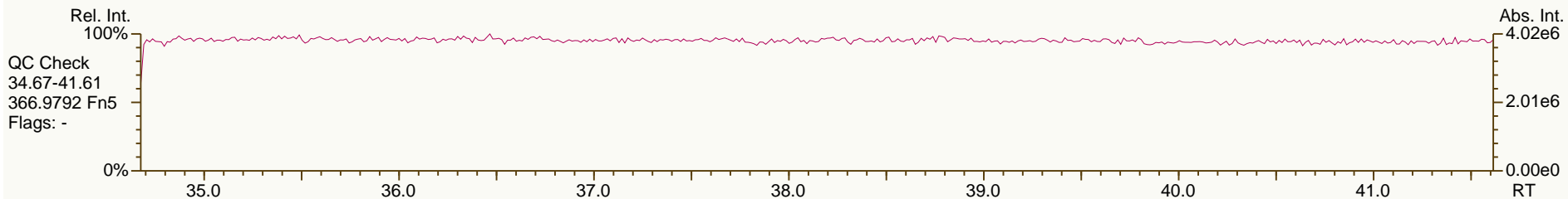
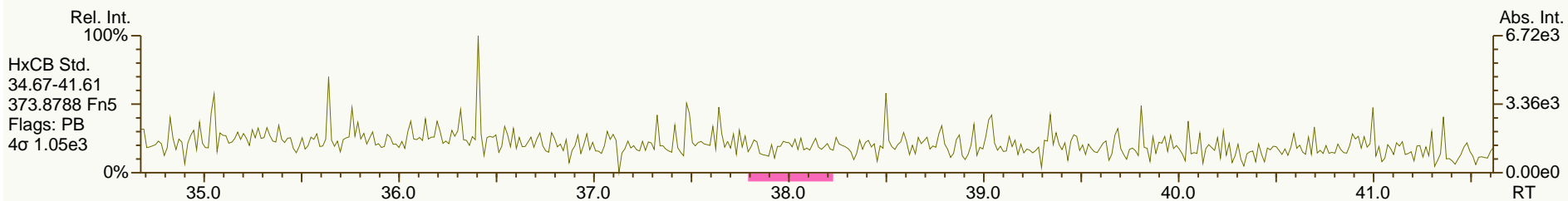
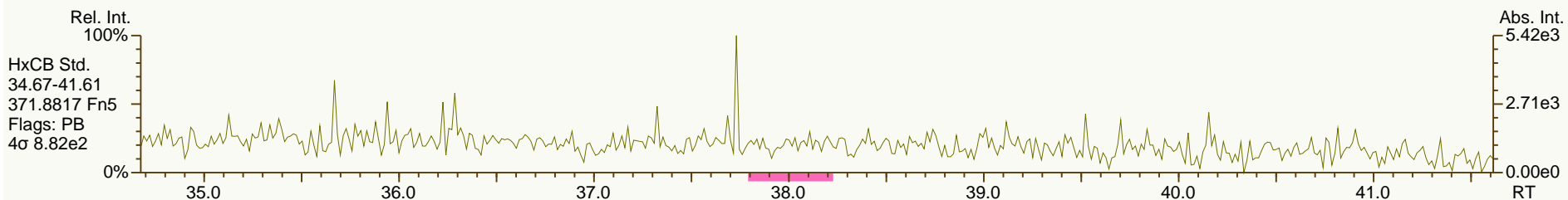
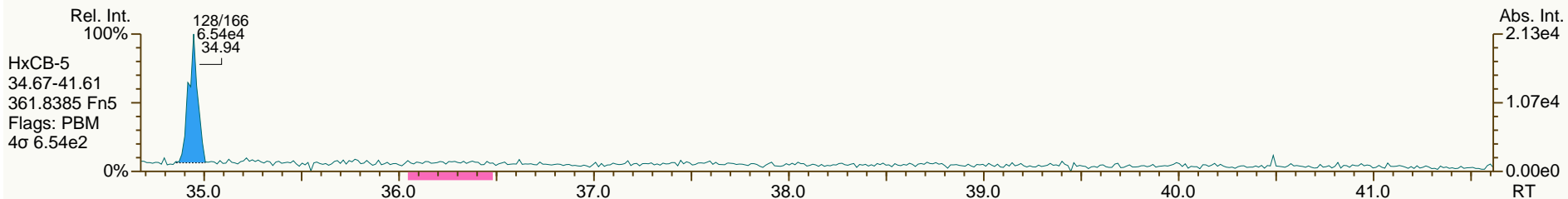
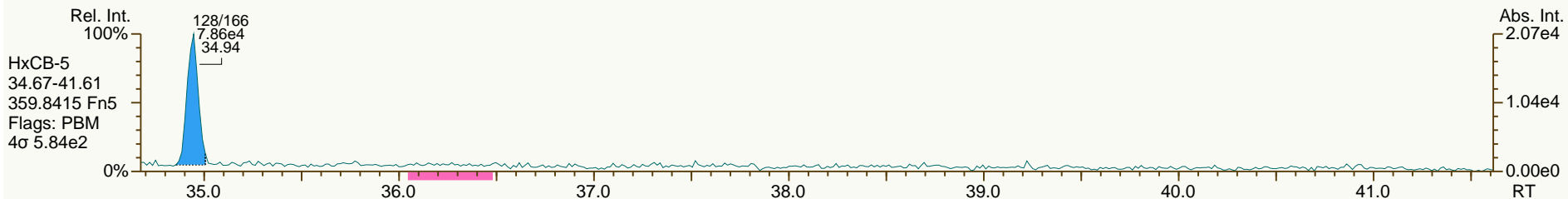
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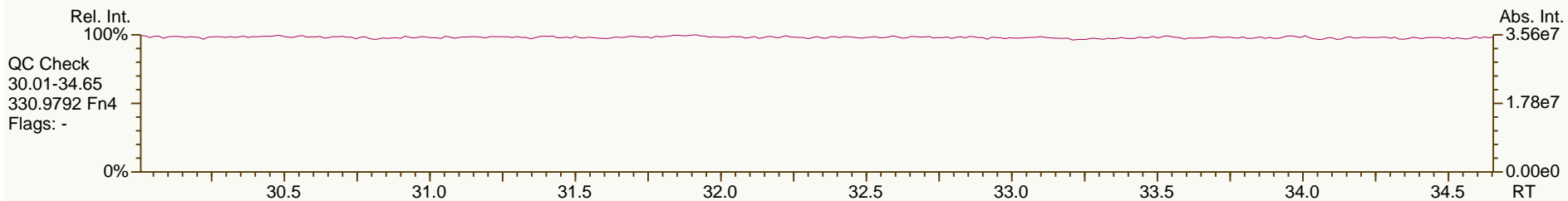
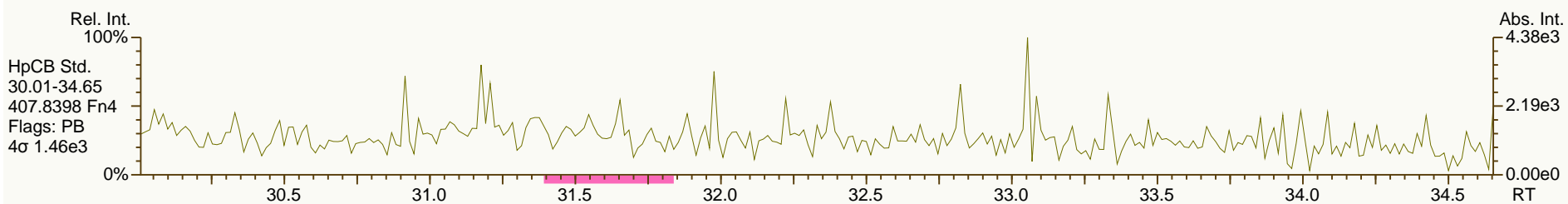
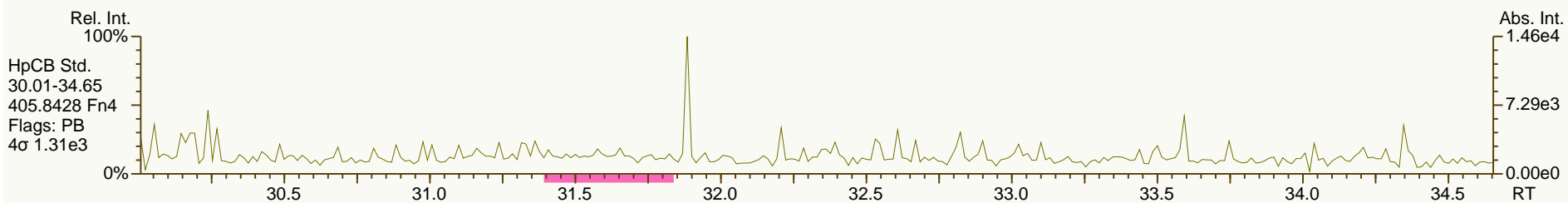
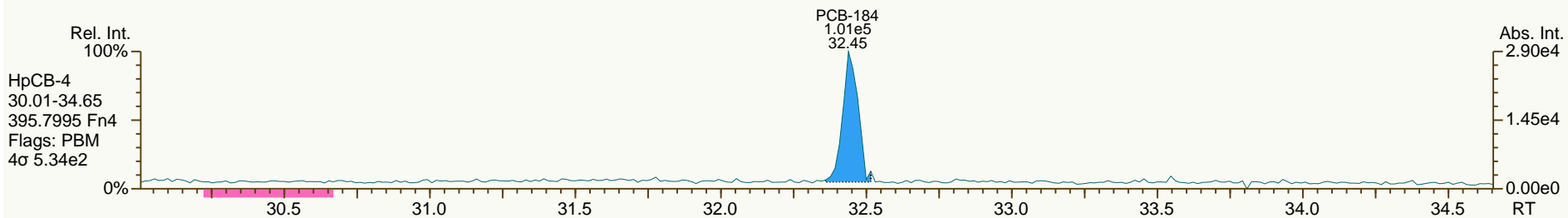
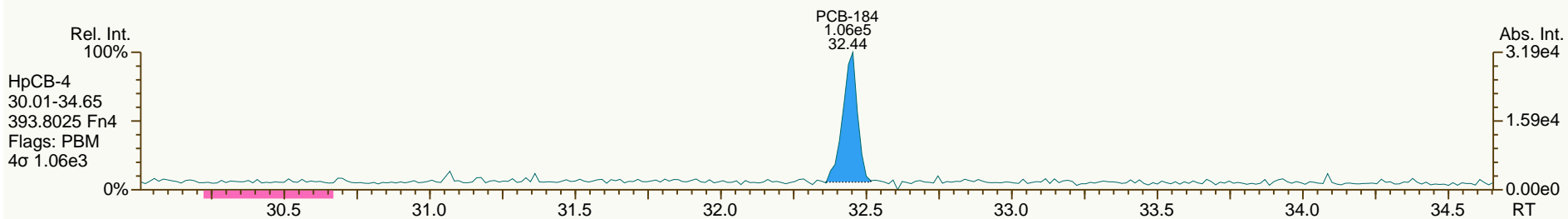
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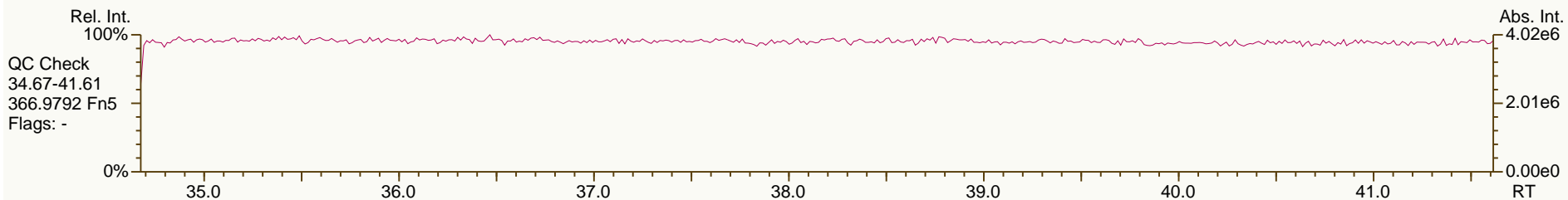
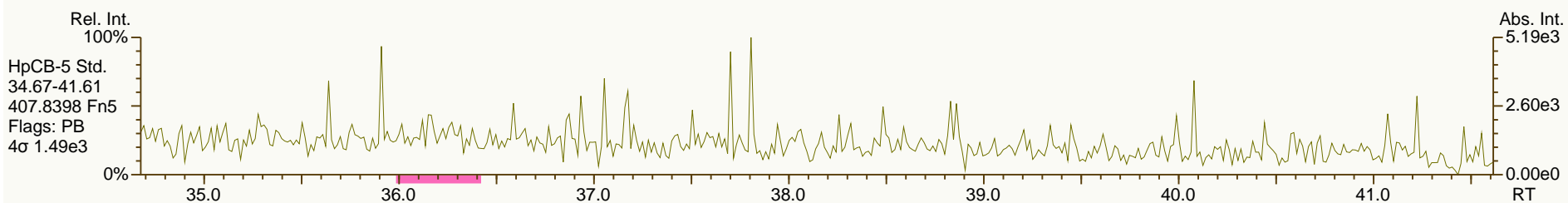
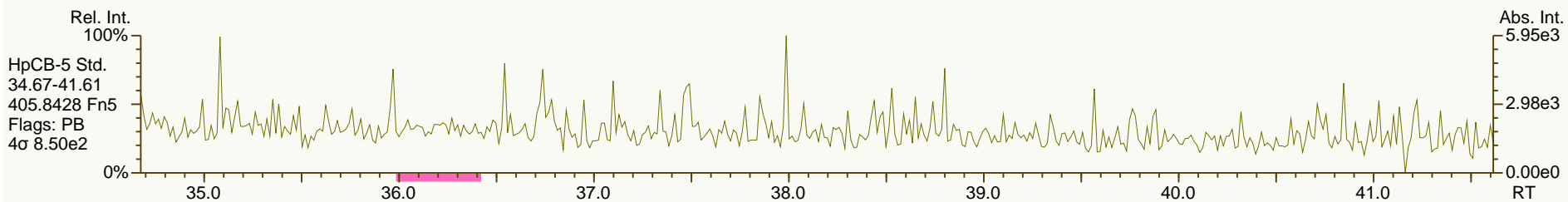
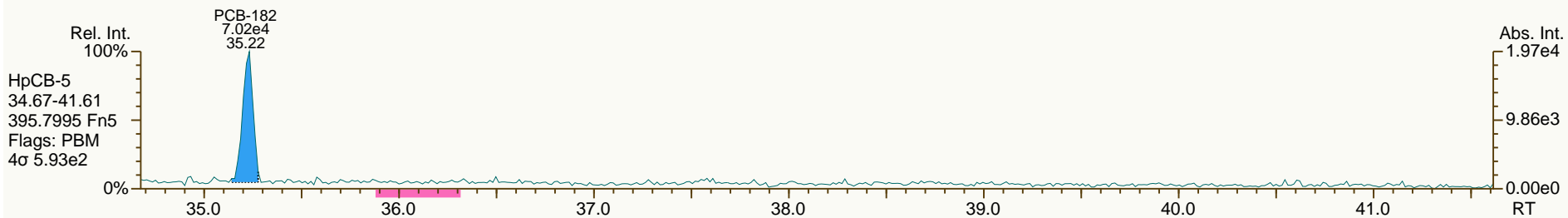
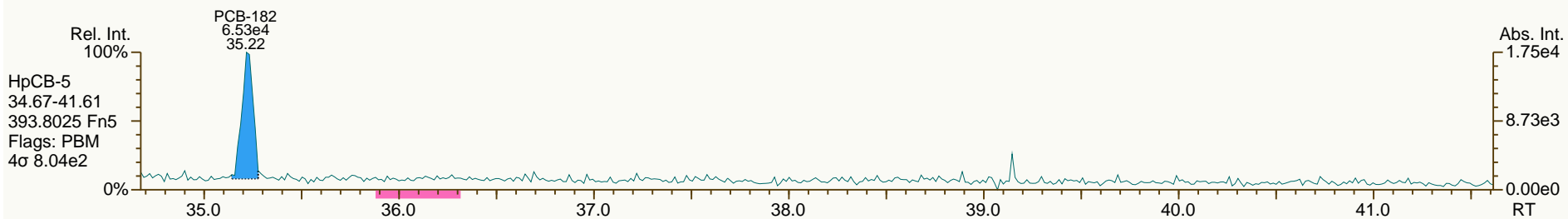
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SGS-AP ID: SBS_131014_PCB_SB
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Sample ID: SIL9-41-1
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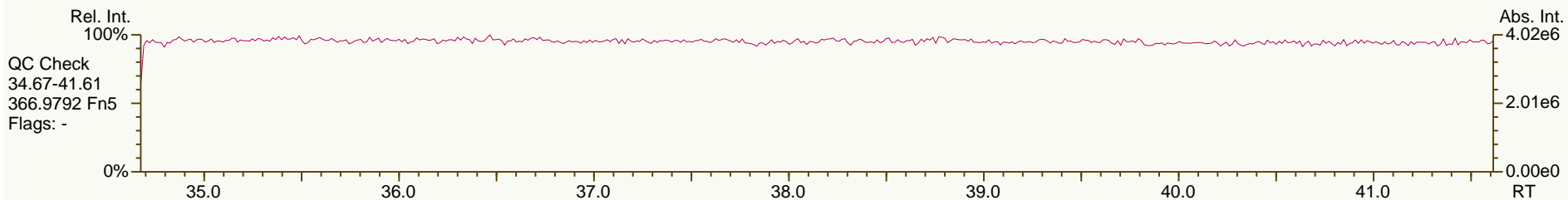
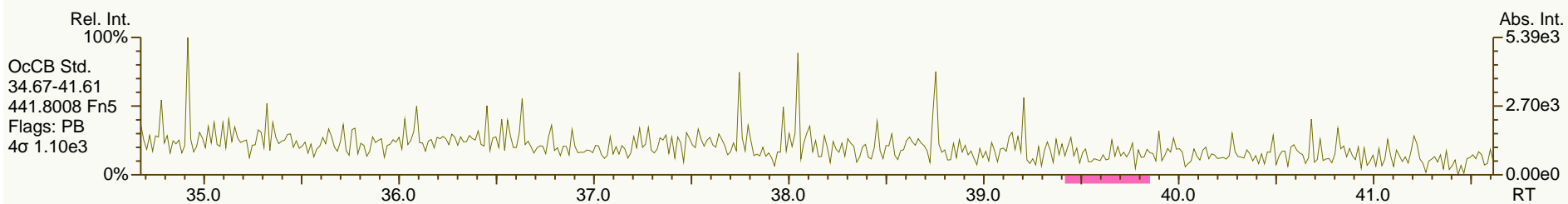
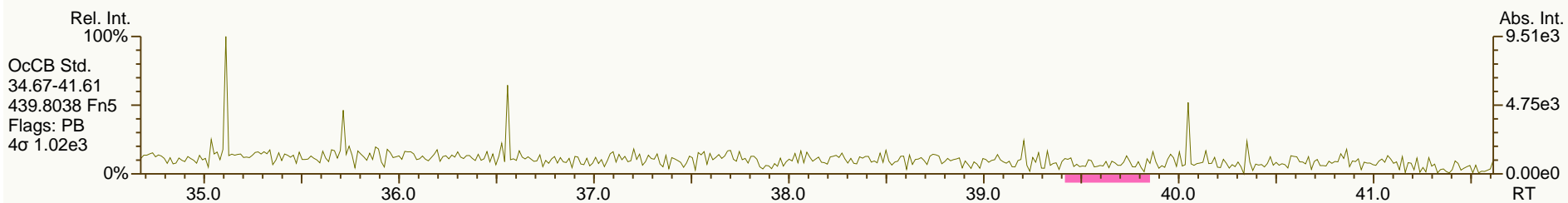
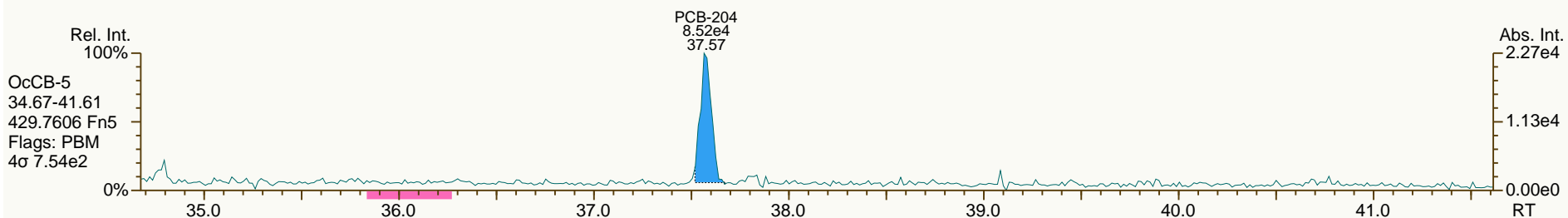
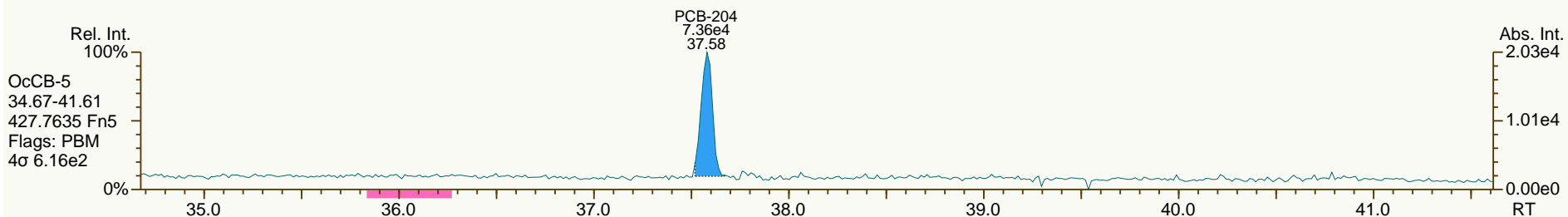
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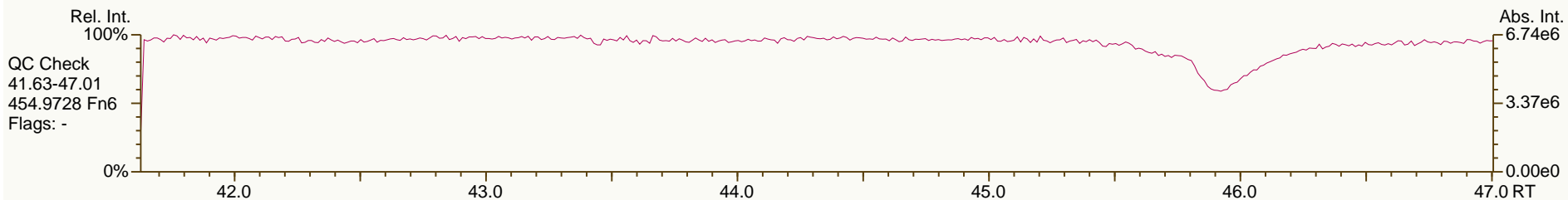
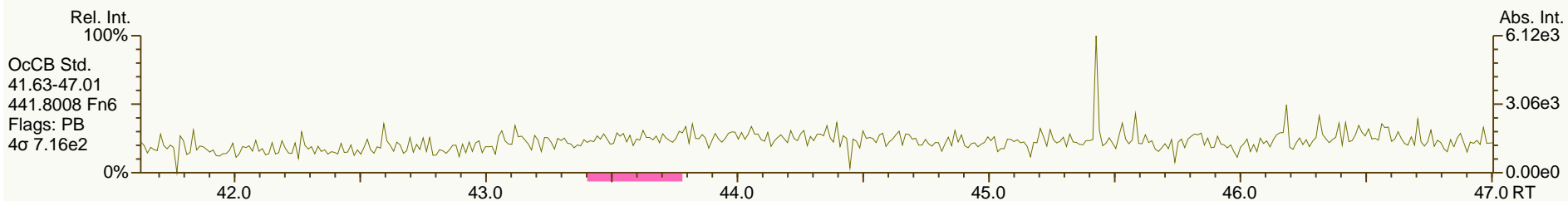
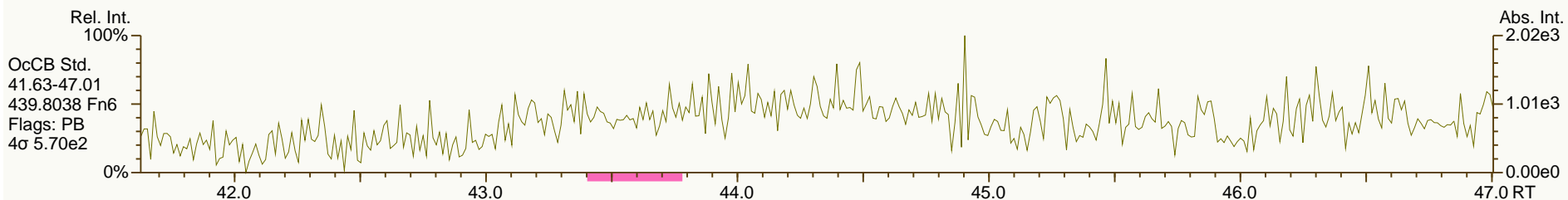
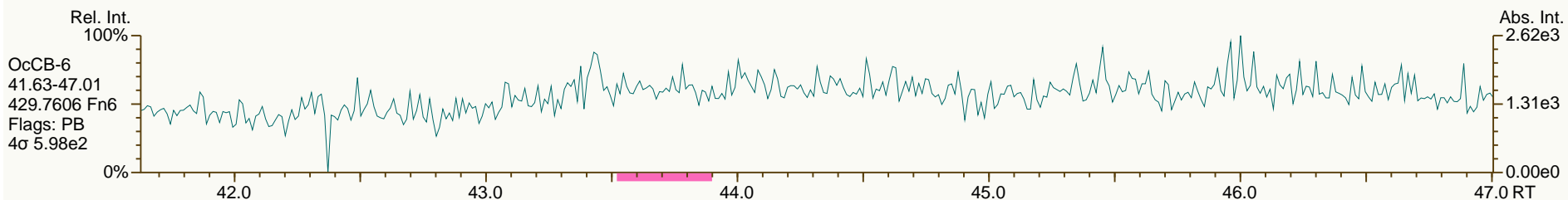
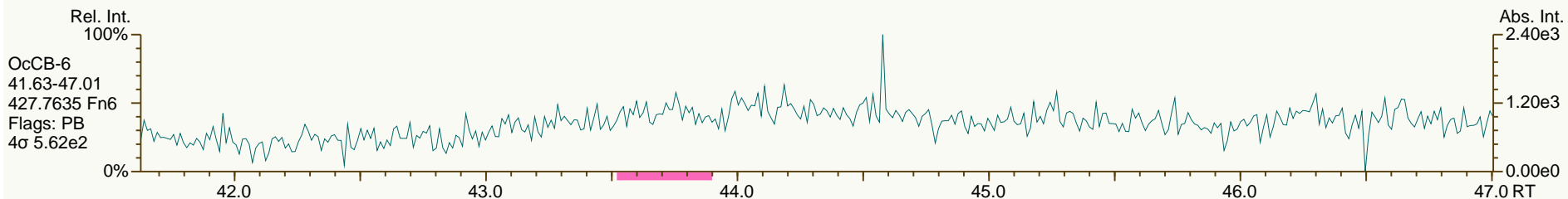
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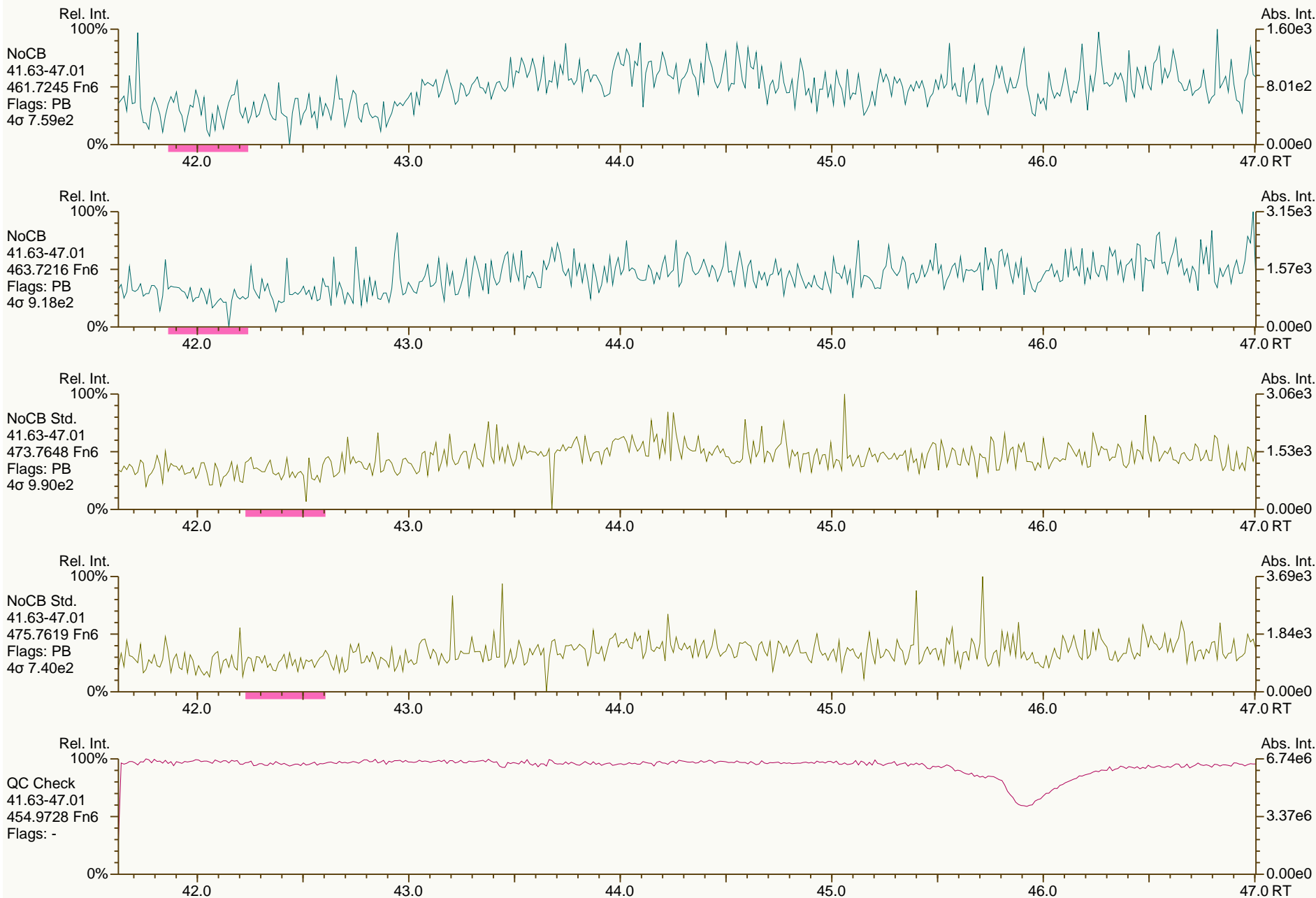
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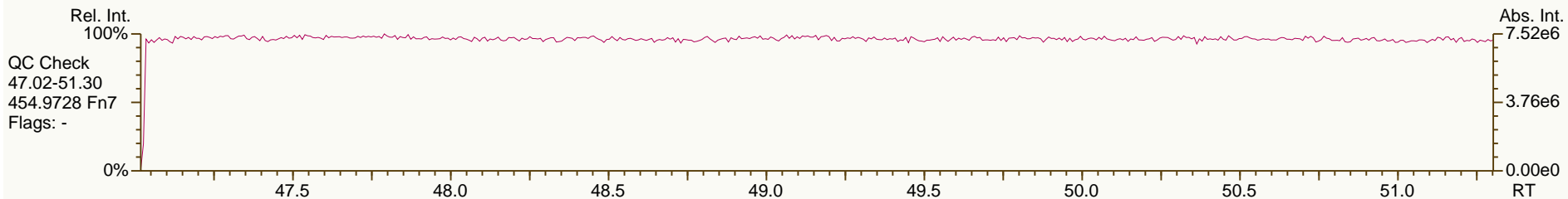
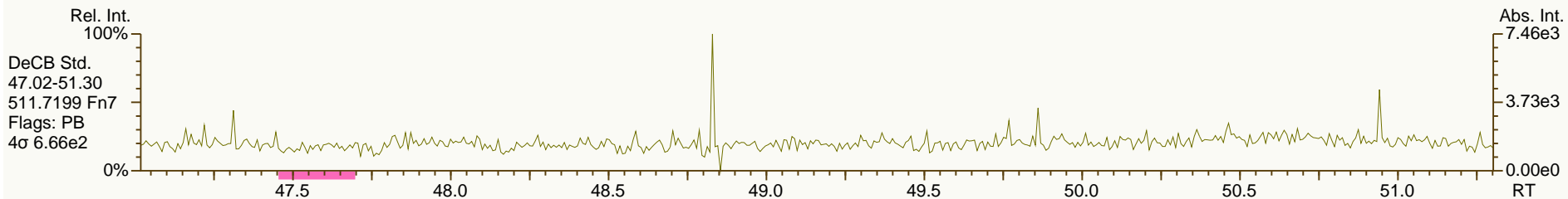
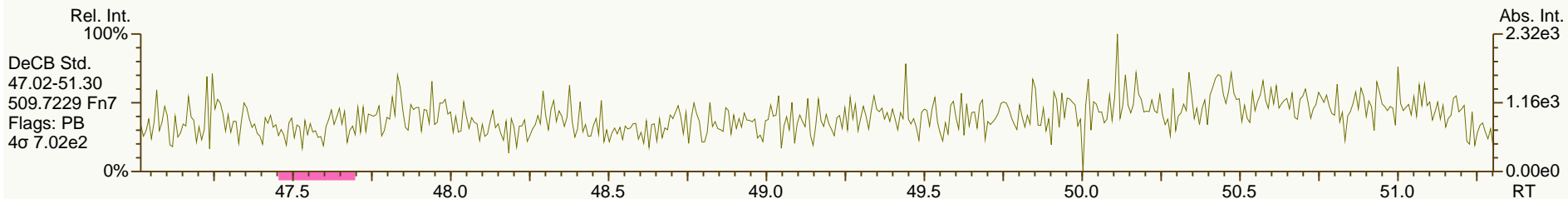
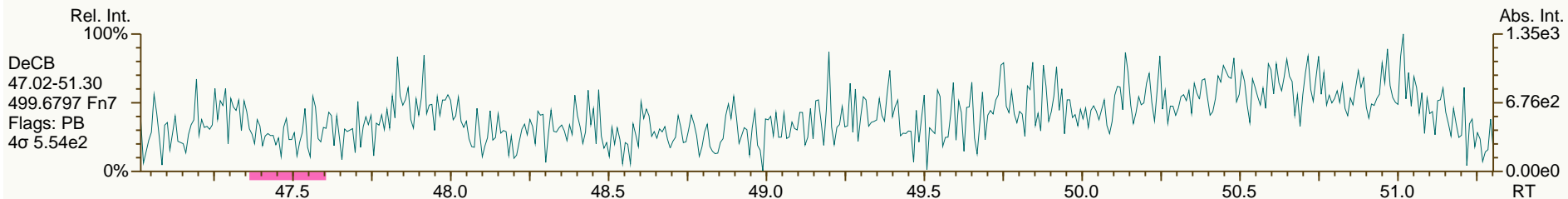
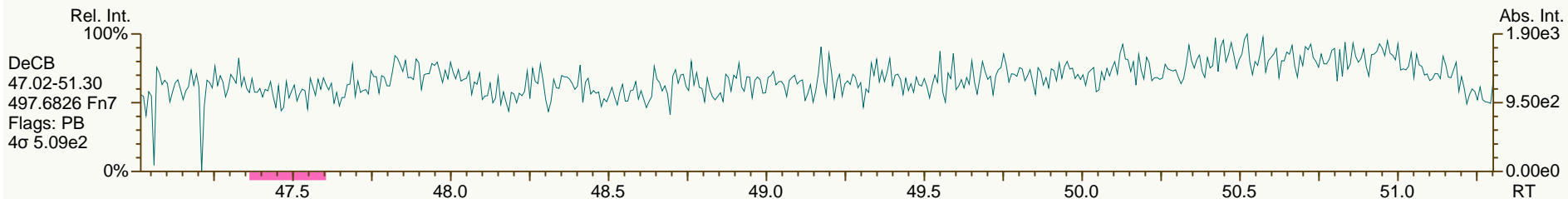
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SGS-AP ID: SBS_131014_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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Experiment Calibration Report

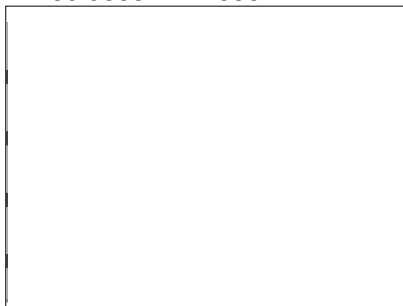
MassLynx 4.1

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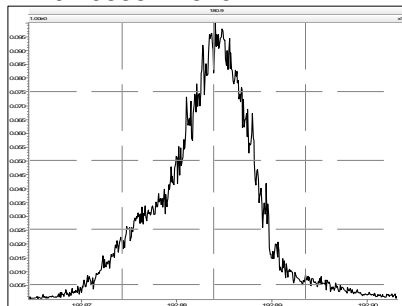
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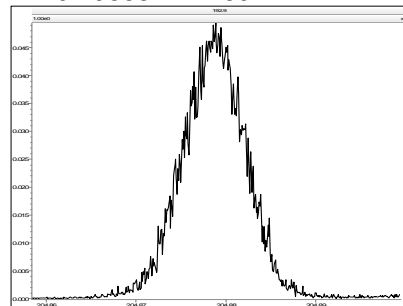
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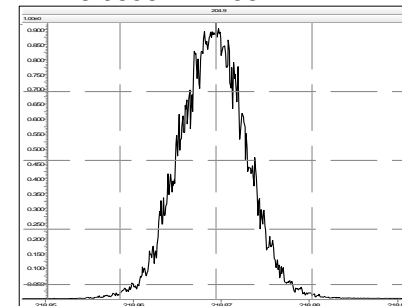
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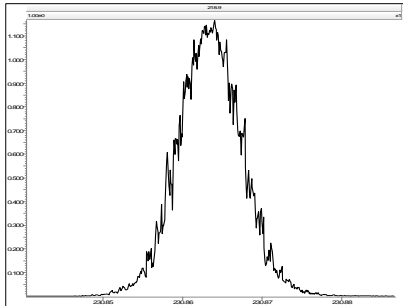
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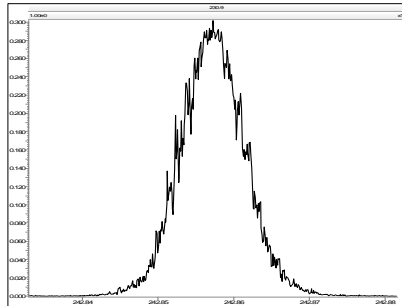
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M 230.9856 R 11737



M 242.9856 R 12255



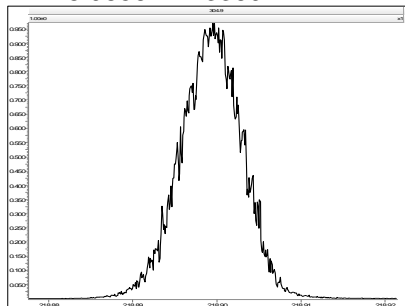
Experiment Calibration Report

MassLynx 4.1

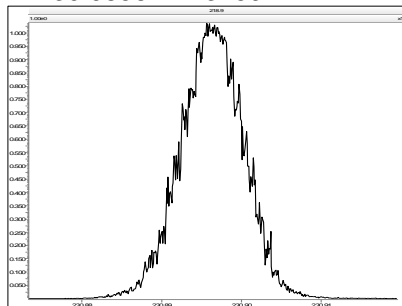
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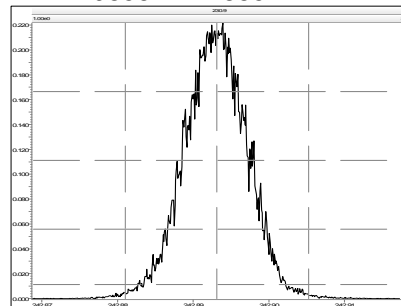
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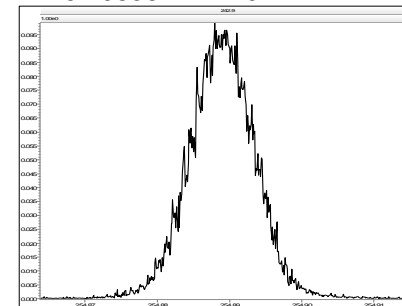
M 230.9856 R 13159



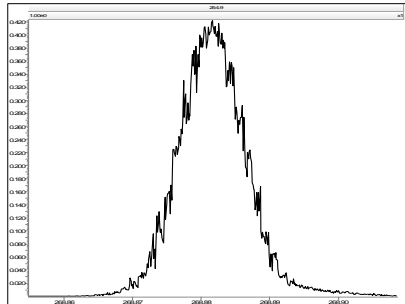
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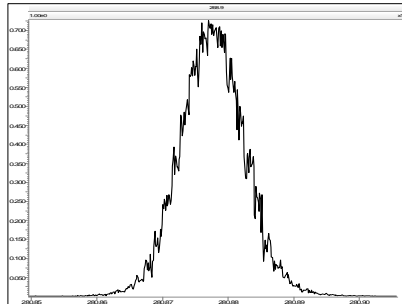
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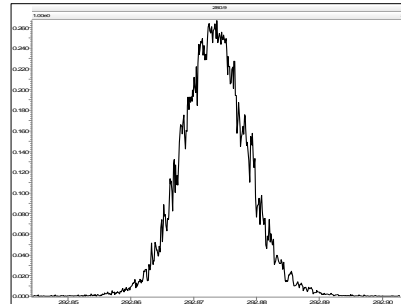
M 268.9824 R 12316



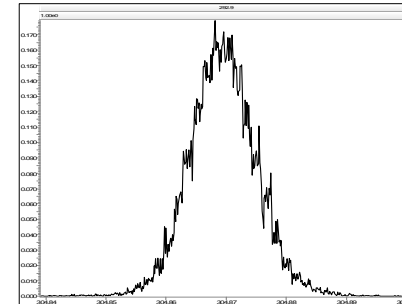
M 280.9824 R 11909



M 292.9824 R 11844



M 304.9824 R 11848



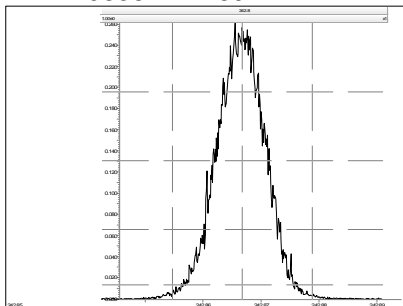
Experiment Calibration Report

MassLynx 4.1

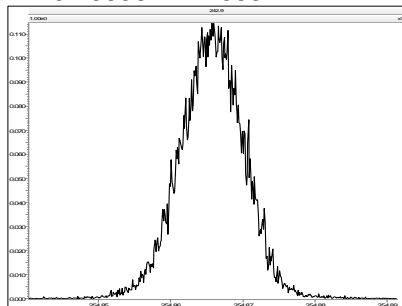
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 3 @ 200 (ppm)

Printed: Monday, October 14, 2013 15:02:15 Eastern Daylight Time

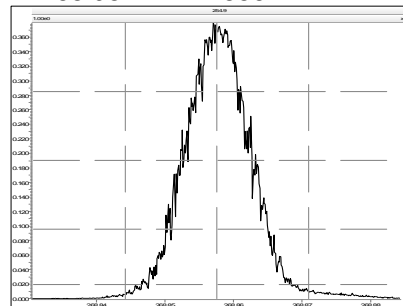
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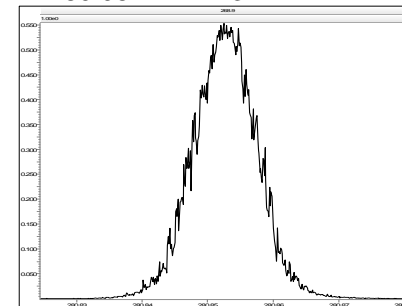
M 254.9856 R 12688



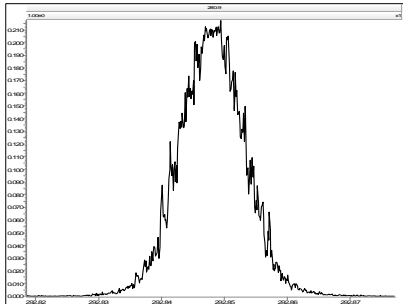
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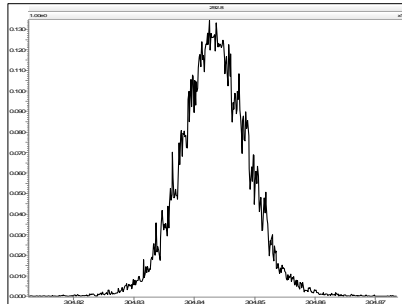
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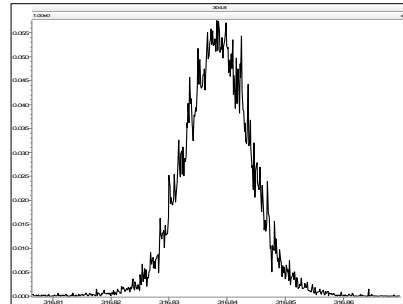
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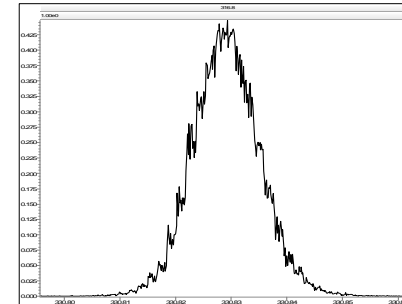
M 304.9824 R 11626



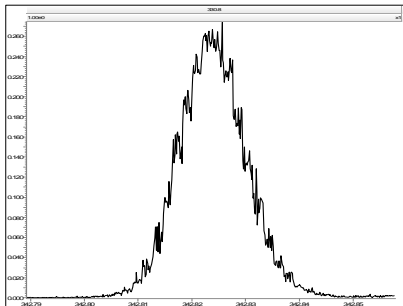
M 316.9824 R 12883



M 330.9792 R 11793



M 342.9792 R 11414



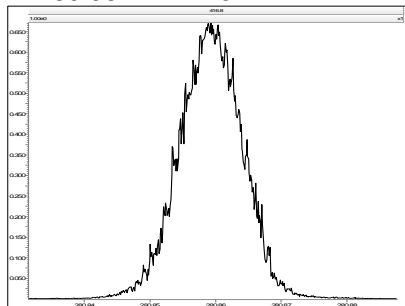
Experiment Calibration Report

MassLynx 4.1

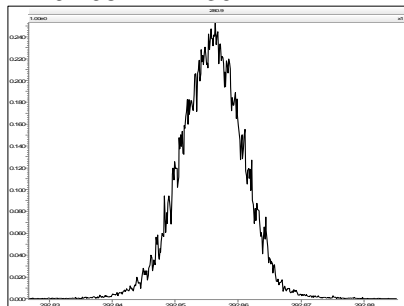
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 4 @ 200 (ppm)

Printed: Monday, October 14, 2013 15:02:45 Eastern Daylight Time

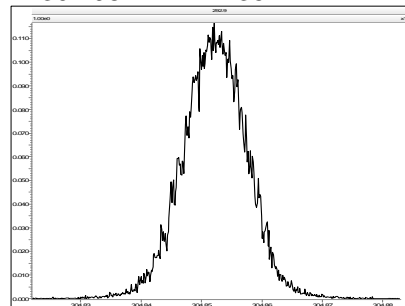
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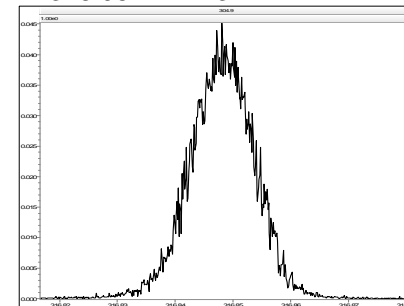
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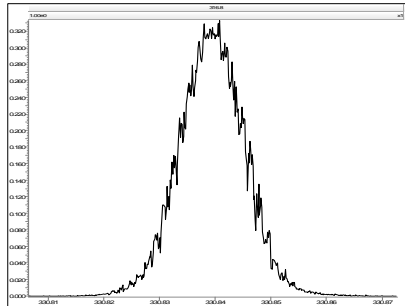
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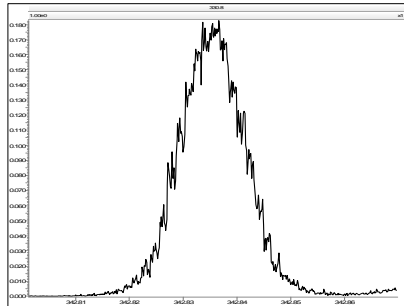
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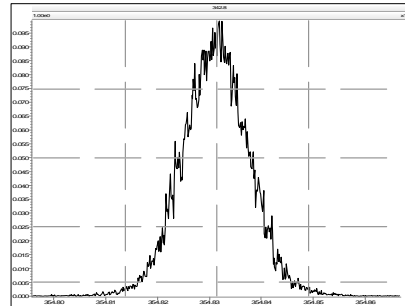
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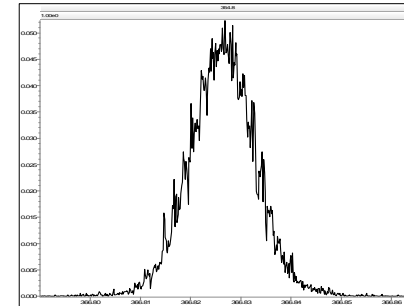
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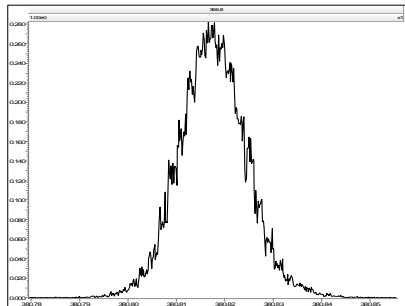
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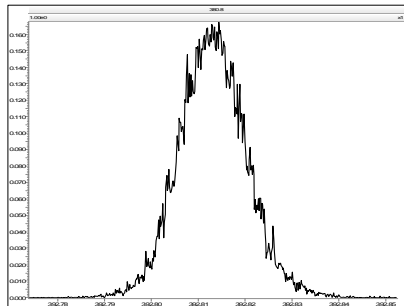
M 366.9792 R 12195



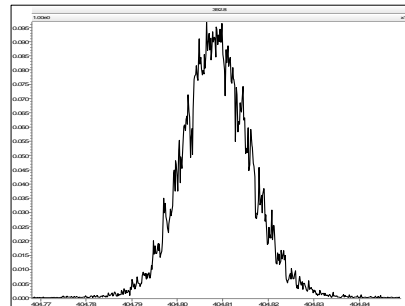
M 380.9760 R 11851



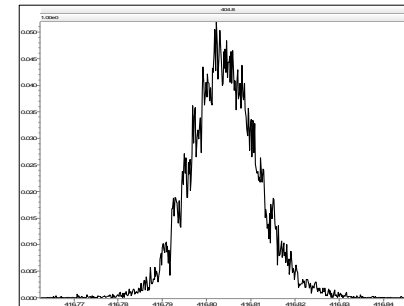
M 392.9760 R 11624



M 404.9760 R 11792



M 416.9760 R 11790



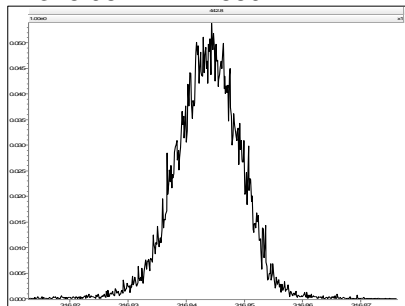
Experiment Calibration Report

MassLynx 4.1

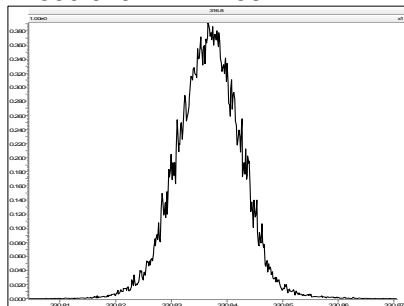
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 5 @ 200 (ppm)

Printed: Monday, October 14, 2013 15:03:14 Eastern Daylight Time

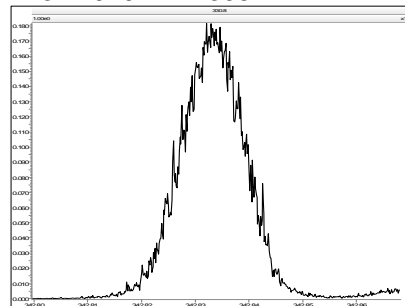
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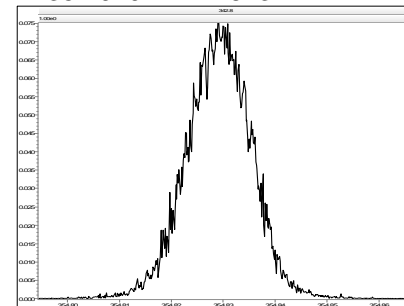
M 330.9792 R 12756



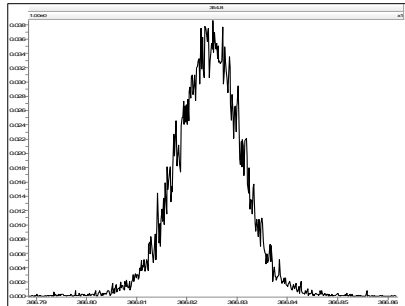
M 342.9792 R 13087



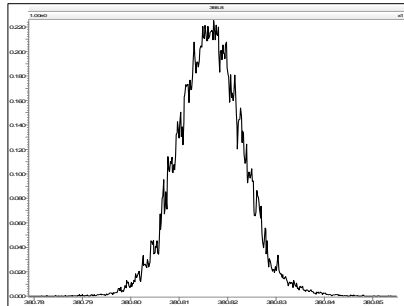
M 354.9792 R 12623



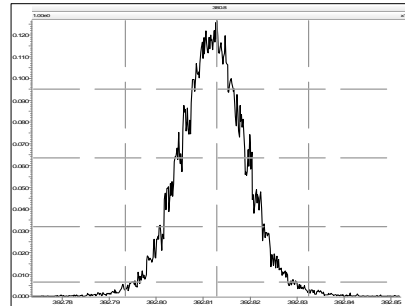
M 366.9792 R 11737



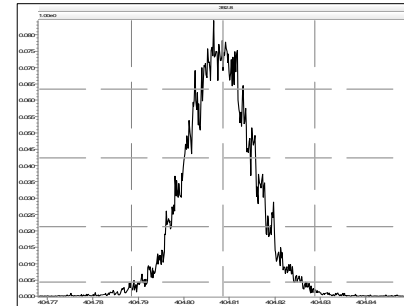
M 380.9760 R 11965



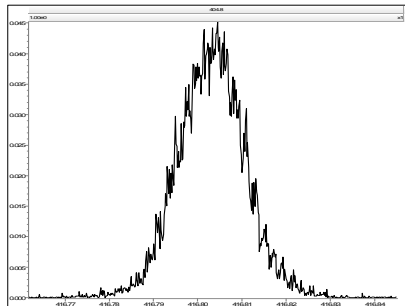
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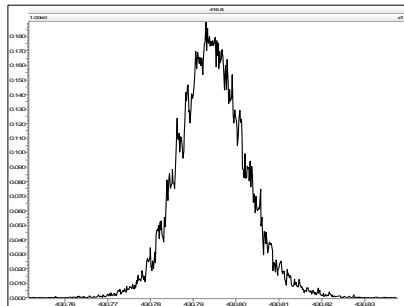
M 404.9760 R 11792



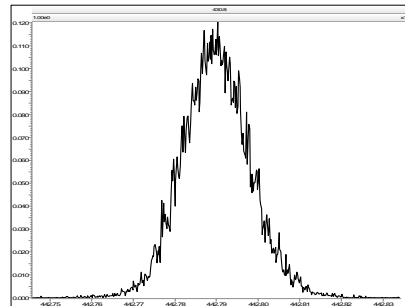
M 416.9760 R 12079



M 430.9728 R 11793



M 442.9728 R 11847



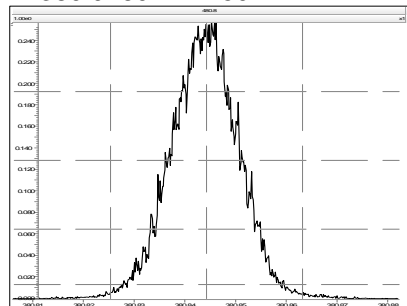
Experiment Calibration Report

MassLynx 4.1

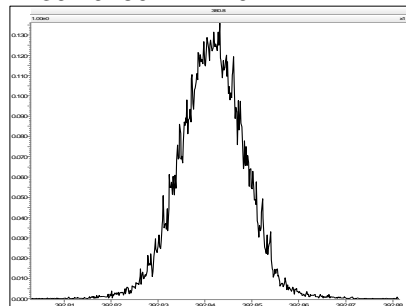
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Printed: Monday, October 14, 2013 15:03:44 Eastern Daylight Time

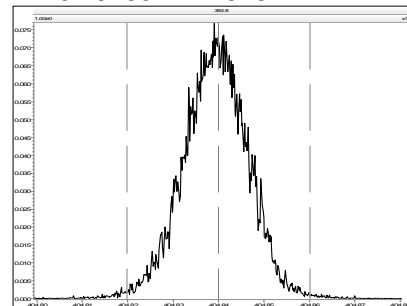
M 380.9760 R 12504



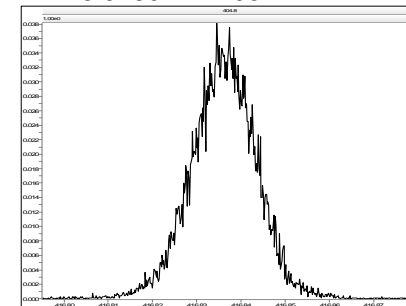
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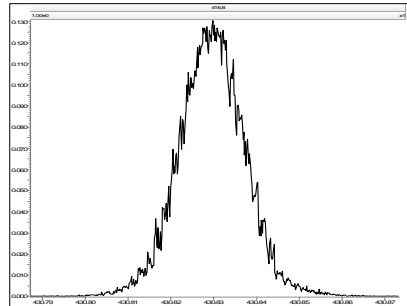
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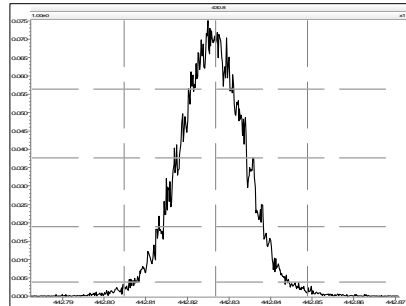
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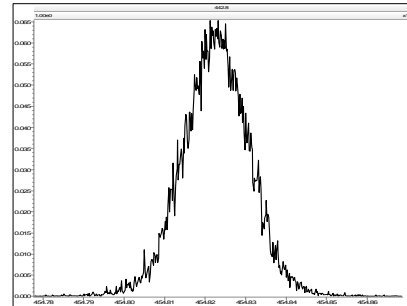
M 430.9728 R 12313



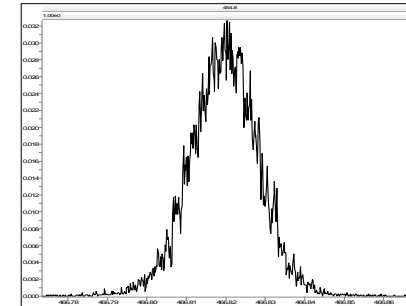
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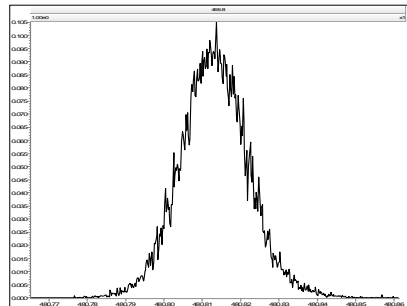
M 454.9728 R 12076



M 466.9728 R 12439



M 480.9696 R 11792



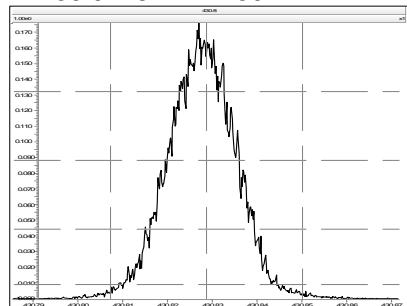
Experiment Calibration Report

MassLynx 4.1

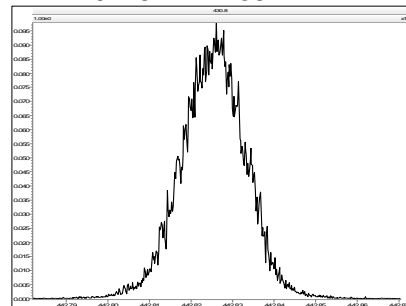
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 7 @ 200 (ppm)

Printed: Monday, October 14, 2013 15:04:05 Eastern Daylight Time

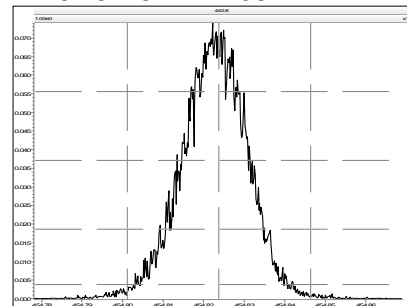
M 430.9728 R 12439



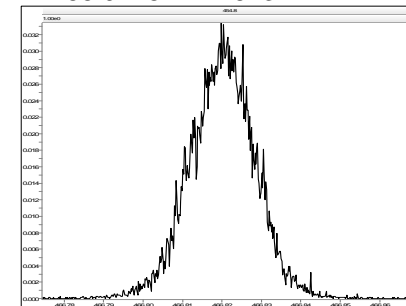
M 442.9728 R 12438



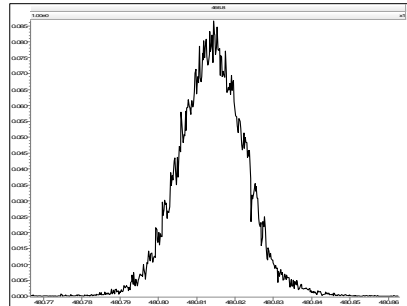
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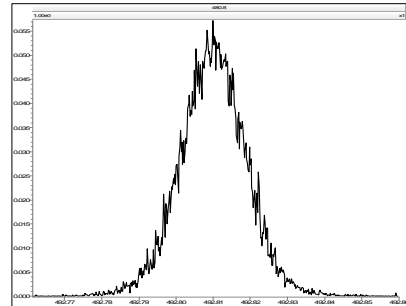
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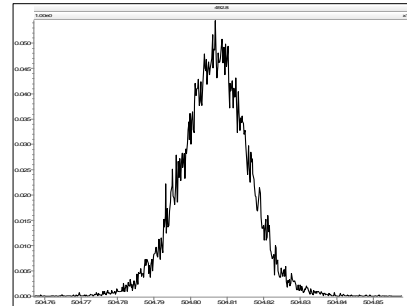
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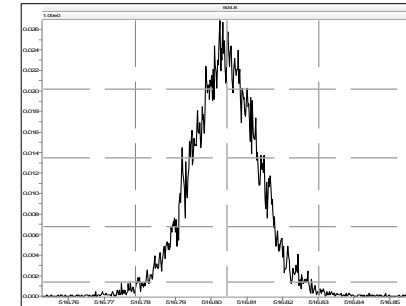
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M 504.9696 R 12373



M 516.9697 R 11851

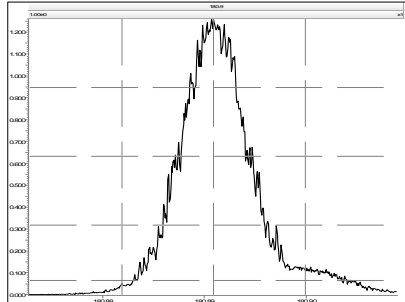


Resolution Check Report

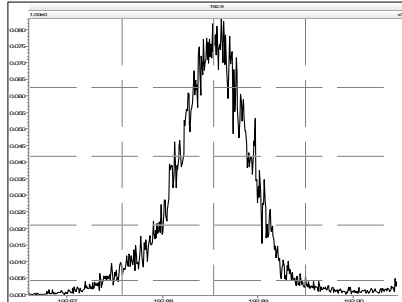
MassLynx 4.1

Printed: Monday, October 14, 2013 22:43:26 Eastern Daylight Time

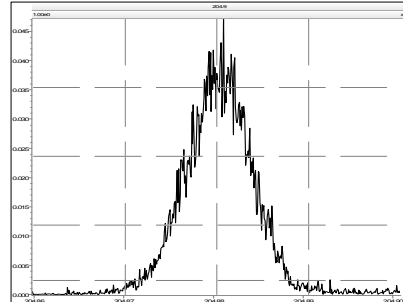
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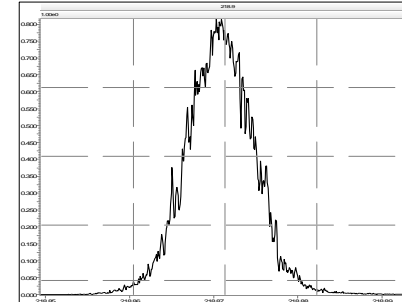
M 192.9888 R 9759



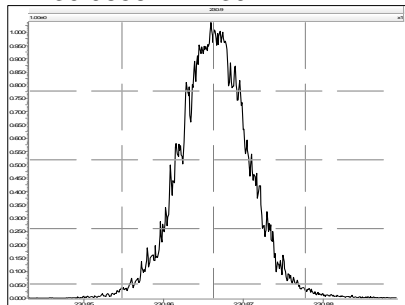
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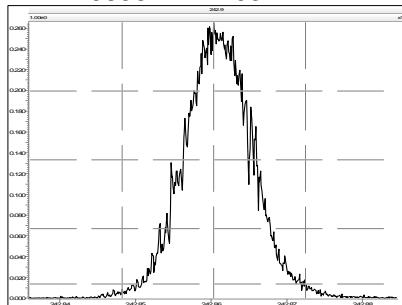
M 218.9856 R 11737



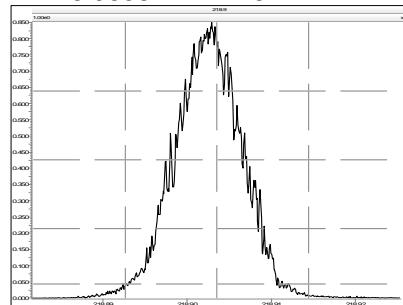
M 230.9856 R 11392



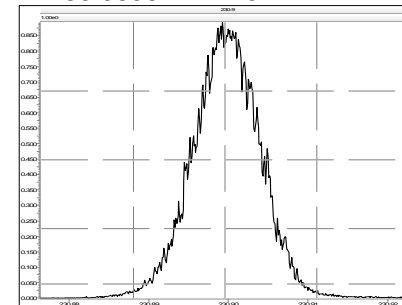
M 242.9856 R 11493



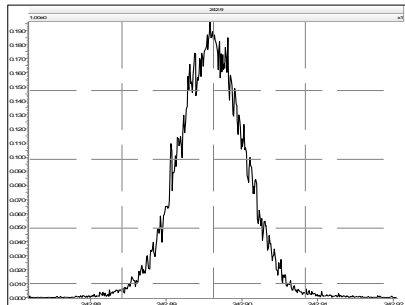
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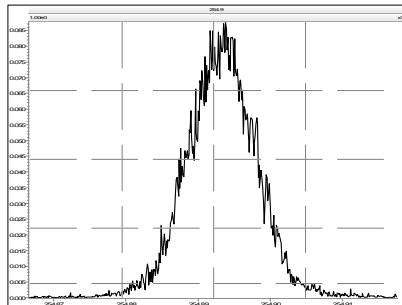
M 230.9856 R 11737



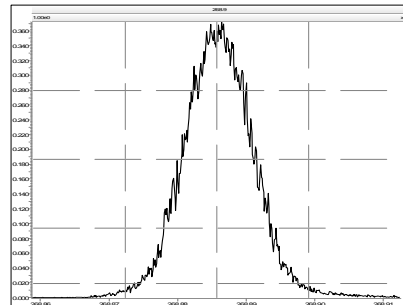
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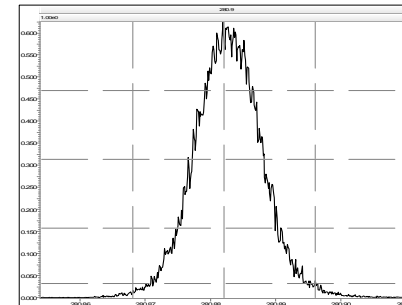
M 254.9856 R 12138



M 268.9824 R 11711



M 280.9824 R 11684

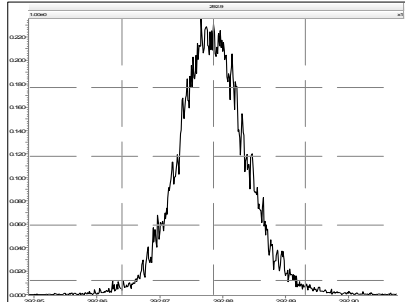


Resolution Check Report

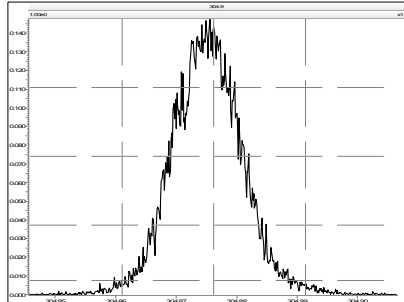
MassLynx 4.1

Printed: Monday, October 14, 2013 22:43:26 Eastern Daylight Time

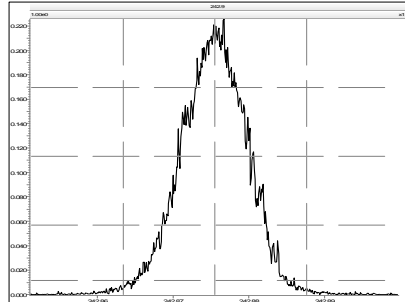
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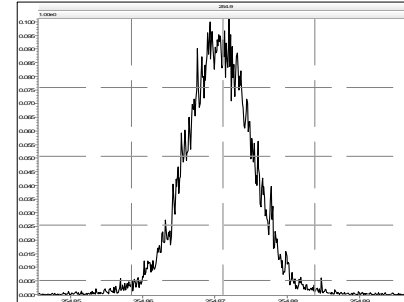
M 304.9824 R 11904



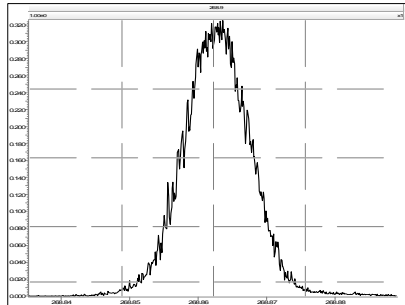
M 242.9856 R 11881



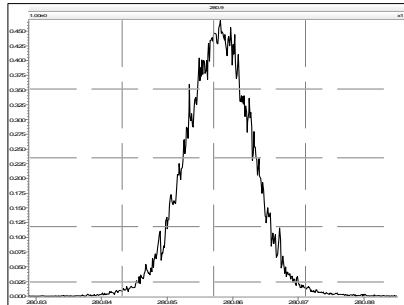
M 254.9856 R 12468



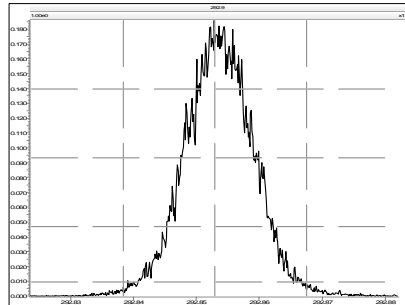
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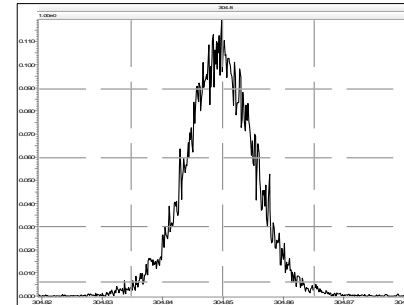
M 280.9824 R 11904



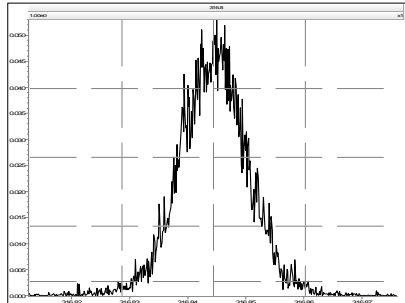
M 292.9824 R 11557



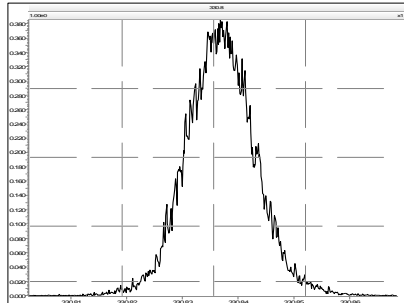
M 304.9824 R 11654



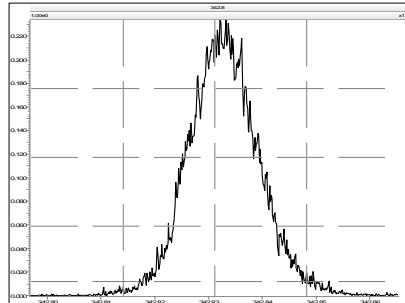
M 316.9824 R 12438



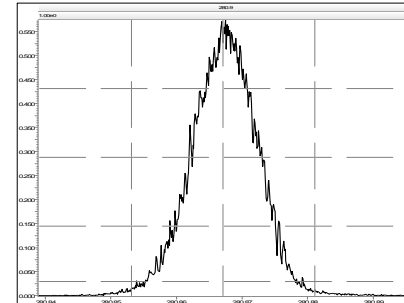
M 330.9792 R 11289



M 342.9792 R 11580



M 280.9824 R 12165



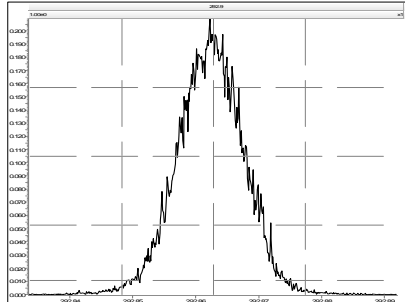
Resolution Check Report

MassLynx 4.1

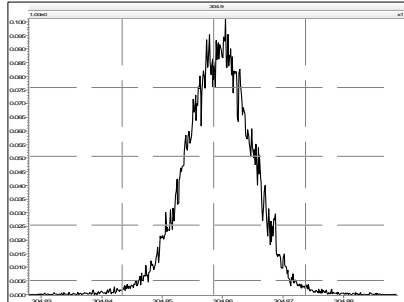
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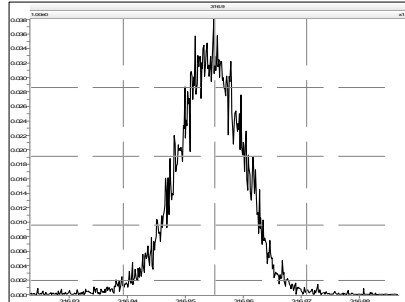
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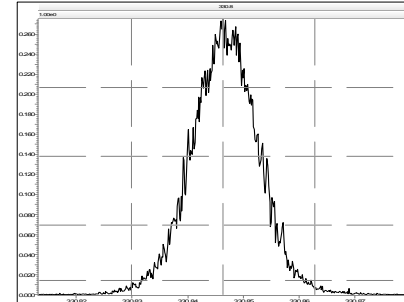
M 304.9824 R 12284



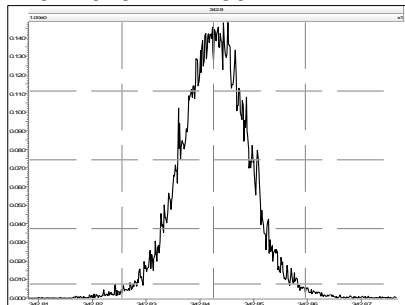
M 316.9824 R 12563



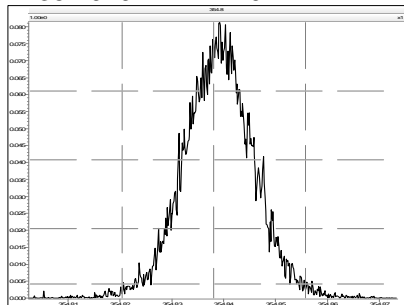
M 330.9792 R 11495



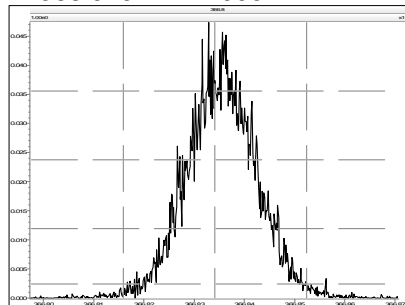
M 342.9792 R 11504



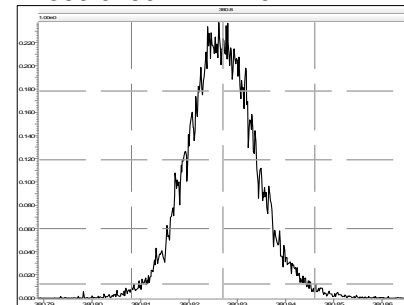
M 354.9792 R 11720



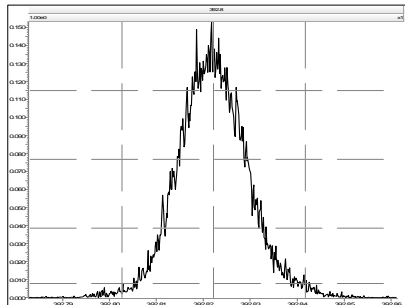
M 366.9792 R 11995



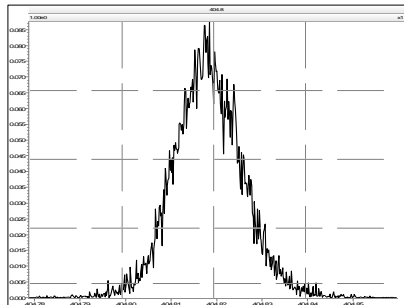
M 380.9760 R 11210



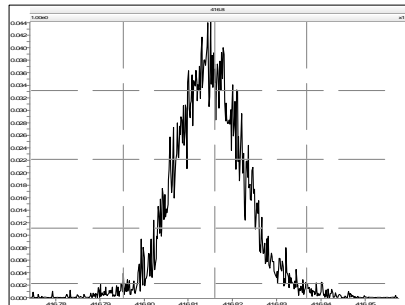
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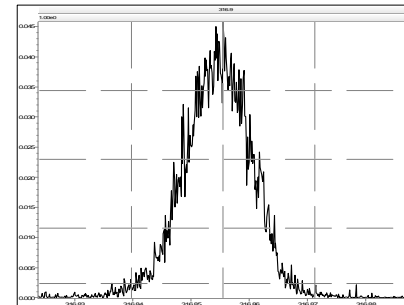
M 404.9760 R 12224



M 416.9760 R 12938



M 316.9824 R 13245

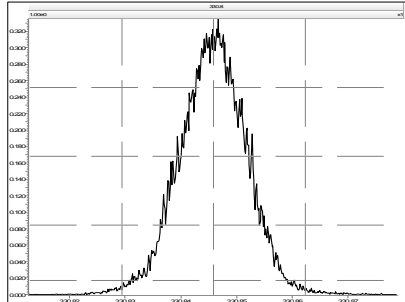


Resolution Check Report

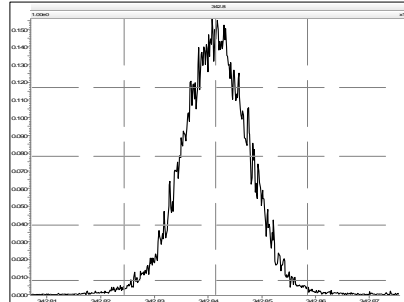
MassLynx 4.1

Printed: Monday, October 14, 2013 22:43:26 Eastern Daylight Time

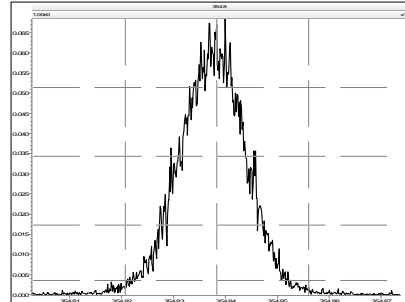
M 330.9792 R 11990



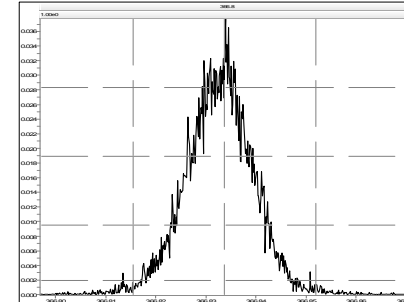
M 342.9792 R 11907



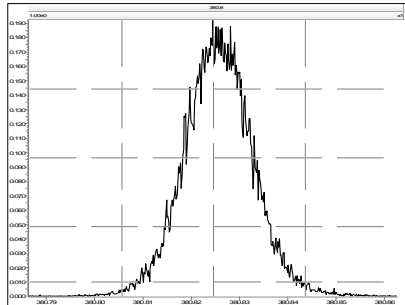
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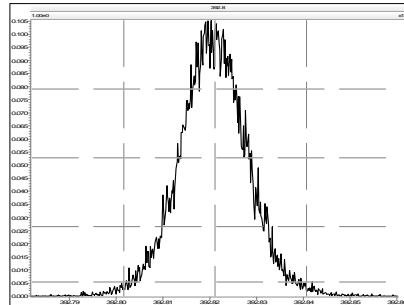
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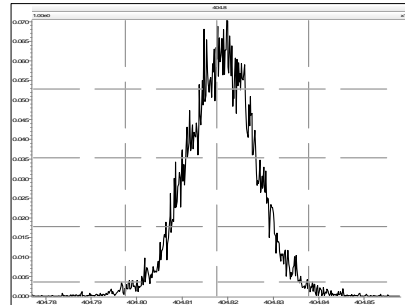
M 380.9760 R 11737



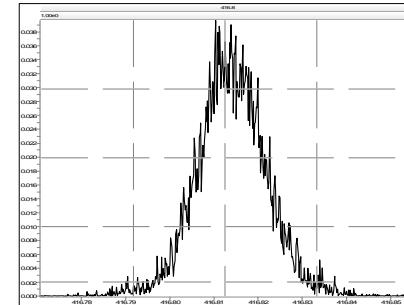
M 392.9760 R 11779



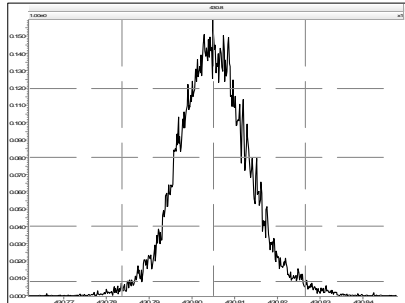
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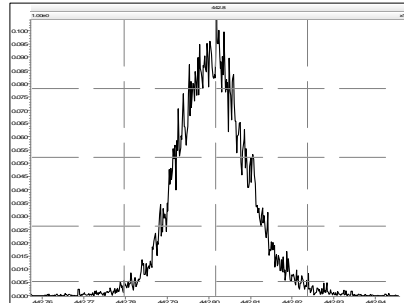
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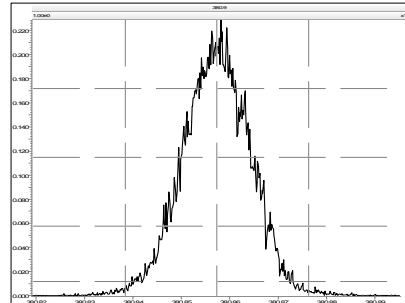
M 430.9728 R 11118



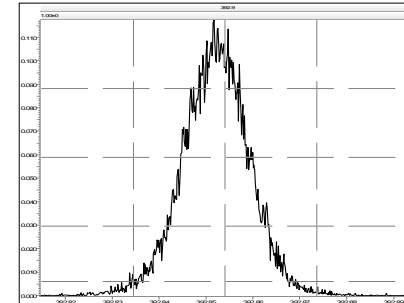
M 442.9728 R 11765



M 380.9760 R 11860



M 392.9760 R 12106

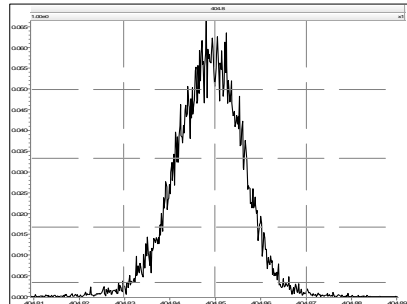


Resolution Check Report

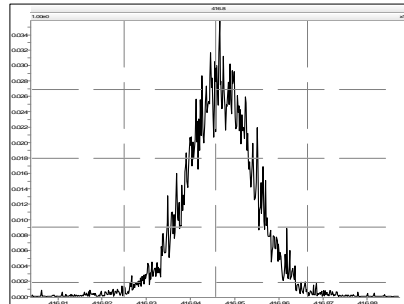
MassLynx 4.1

Printed: Monday, October 14, 2013 22:43:26 Eastern Daylight Time

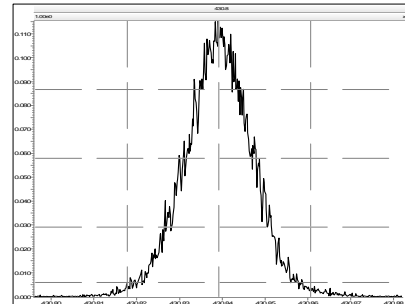
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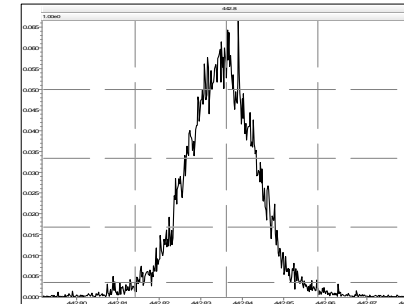
M 416.9760 R 12118



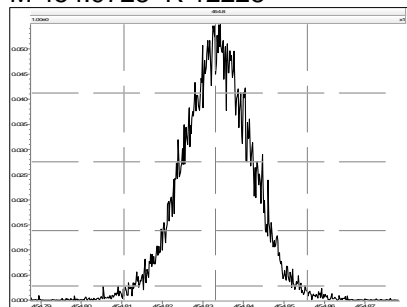
M 430.9728 R 11577



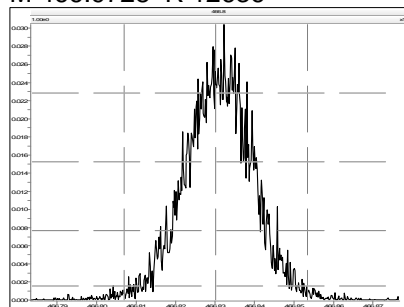
M 442.9728 R 12124



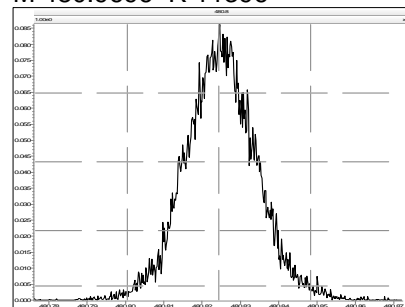
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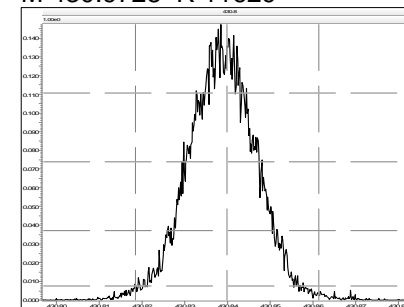
M 466.9728 R 12636



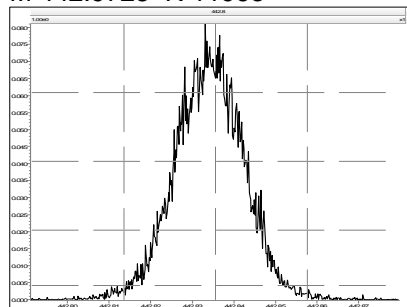
M 480.9696 R 11396



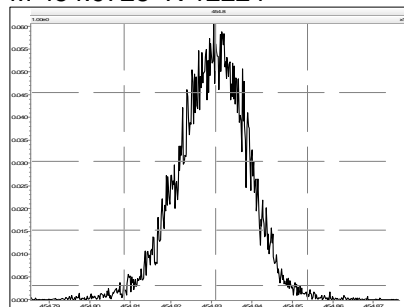
M 430.9728 R 11629



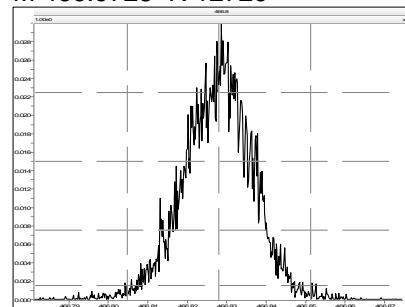
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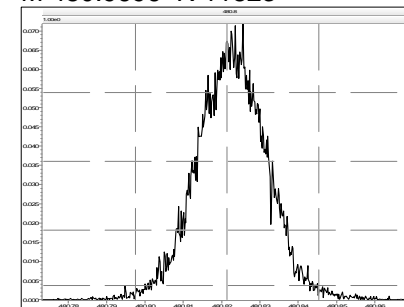
M 454.9728 R 12224



M 466.9728 R 12729



M 480.9696 R 11823



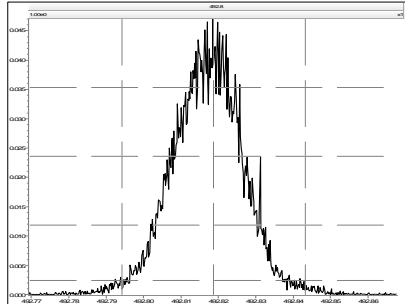
Resolution Check Report

MassLynx 4.1

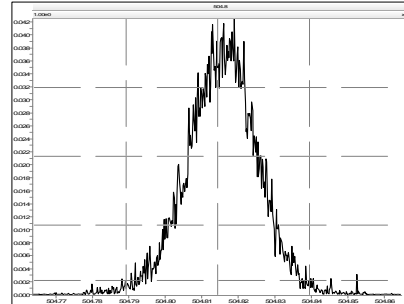
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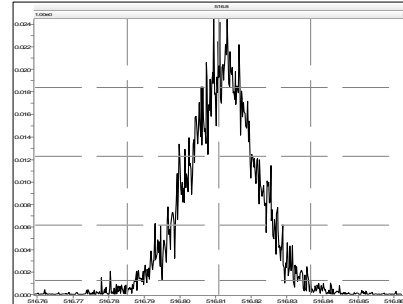
M 492.9696 R 11389



M 504.9696 R 11685



M 516.9697 R 12023



PCB ICAL Summary			SGS Analytical Perspectives						Printed: 25 Sep 2013 12:05		
ICAL: MM4_PCB_07122013_11SEP2013											
Acquired: 11 Sep 2013											
Date Processed: 12 Sep 2013 14:26											
Name	Mean	% RSD	130911S03	130911S04	130911S05	130911S06	130911S07	130911S08			
			0.5	1	5	50	400	2000	CS0	CS1	CS2
PCB-77 33'44'-TeCB	1.51	4.5%	1.48	1.48	1.41	1.53	1.60	1.57			
PCB-81 344'5'-TeCB	1.27	7.9%	1.11	1.25	1.21	1.33	1.39	1.33			
PCB-105 233'44'-PeCB	1.00	6.9%	0.92	0.98	0.92	1.02	1.08	1.05			
PCB-114 2344'5'-PeCB	1.06	6.1%	1.00	1.05	0.98	1.08	1.15	1.11			
PCB-118 23'44'5'-PeCB	1.01	7.4%	0.93	0.96	0.94	1.06	1.09	1.08			
PCB-123 23'44'5'-PeCB	1.06	3.3%	1.06	1.01	1.04	1.07	1.11	1.07			
PCB-126 33'44'5'-PeCB	1.26	5.5%	1.26	1.17	1.20	1.27	1.35	1.31			
PCB-156/157 ...-HxCB	1.06	6.9%	0.98	1.05	0.99	1.09	1.15	1.13			
PCB-167 23'44'55'-HxCB	1.12	5.2%	1.10	1.07	1.05	1.13	1.21	1.15			
PCB-169 33'44'55'-HxCB	1.09	4.9%	1.07	1.04	1.02	1.11	1.16	1.13			
PCB-189 233'44'55'-HpCB	1.15	5.8%	1.09	1.13	1.07	1.19	1.24	1.19			
PCB-209 DeCB	1.03	4.3%	1.02	1.04	0.96	1.04	1.09	1.06			
ES PCB-1	1.04	1.2%	1.02	1.04	1.05	1.06	1.04	1.04			
ES PCB-3	0.99	1.5%	0.98	0.97	0.98	1.00	1.00	1.01			
ES PCB-4	0.71	1.5%	0.72	0.72	0.70	0.71	0.71	0.70			
ES PCB-15	1.09	2.2%	1.08	1.07	1.07	1.09	1.10	1.13			
ES PCB-19	0.59	1.4%	0.60	0.59	0.59	0.59	0.59	0.58			
ES PCB-37	1.32	3.4%	1.25	1.29	1.32	1.35	1.32	1.38			
ES PCB-54	1.35	2.3%	1.39	1.39	1.35	1.32	1.33	1.32			
ES PCB-77	1.07	2.7%	1.02	1.05	1.08	1.09	1.07	1.10			
ES PCB-81	1.19	3.5%	1.13	1.16	1.20	1.20	1.20	1.25			
ES PCB-104	1.62	6.3%	1.80	1.66	1.59	1.60	1.54	1.52			
ES PCB-105	1.30	2.7%	1.29	1.33	1.33	1.34	1.26	1.27			
ES PCB-114	1.32	2.8%	1.30	1.35	1.36	1.35	1.27	1.28			
ES PCB-118	1.30	2.4%	1.29	1.33	1.34	1.33	1.28	1.26			
ES PCB-123	1.26	1.5%	1.24	1.27	1.29	1.27	1.24	1.26			
ES PCB-126	1.41	1.9%	1.38	1.43	1.42	1.43	1.37	1.41			
ES PCB-153	1.15	1.6%	1.14	1.16	1.16	1.14	1.14	1.18			
ES PCB-155	1.53	0.8%	1.53	1.55	1.54	1.51	1.53	1.54			
ES PCB-156/157	1.19	3.7%	1.11	1.17	1.19	1.22	1.20	1.23			
ES PCB-167	1.22	3.7%	1.15	1.21	1.23	1.25	1.23	1.28			
ES PCB-169	1.18	4.2%	1.09	1.17	1.19	1.21	1.20	1.24			
ES PCB-170	1.22	1.1%	1.22	1.23	1.20	1.23	1.21	1.24			
ES PCB-180	1.41	2.2%	1.40	1.44	1.37	1.41	1.38	1.44			
ES PCB-188	1.71	1.3%	1.74	1.73	1.68	1.69	1.71	1.70			
ES PCB-189	1.84	1.8%	1.80	1.85	1.82	1.85	1.82	1.89			
ES PCB-202	1.42	0.8%	1.41	1.43	1.40	1.41	1.42	1.42			
ES PCB-205	1.25	1.8%	1.22	1.27	1.25	1.28	1.24	1.26			
ES PCB-206	1.24	1.6%	1.22	1.27	1.24	1.25	1.21	1.24			

APPROVED

By Jeremy Kadylak at 3:34 pm, Sep 25, 2013

PCB ICAL Summary

SGS Analytical Perspectives

Printed: 25 Sep 2013 12:05

ICAL: MM4_PCB_07122013_11SEP2013

Acquired: 11 Sep 2013

Name	Mean	% RSD	130911S03	130911S04	130911S05	130911S06	130911S07	130911S08
			0.5 CS0	1 CS1	5 CS2	50 CS3	400 CS4	2000 CS5
ES PCB-208	1.42	1.6%	1.41	1.44	1.42	1.45	1.39	1.41
ES PCB-209	1.23	1.5%	1.21	1.25	1.24	1.26	1.22	1.23
SS PCB-28	1.06	1.8%	1.05	1.08	1.09	1.04	1.06	1.06
SS PCB-111	1.06	1.9%	1.09	1.07	1.07	1.05	1.04	1.04
SS PCB-178	0.58	1.7%	0.58	0.59	0.59	0.59	0.56	0.58
CS PCB-28	1.40	3.5%	1.32	1.39	1.44	1.40	1.40	1.46
CS PCB-111	1.34	2.5%	1.35	1.36	1.38	1.34	1.28	1.31
CS PCB-178	0.99	1.9%	1.01	1.02	0.99	1.00	0.96	0.99
PCB-1 2-MoCB	1.20	4.9%	1.15	1.19	1.12	1.19	1.27	1.25
PCB-3 4-MoCB	1.24	4.9%	1.16	1.25	1.17	1.26	1.31	1.28
PCB-4 22'-DiCB	0.97	4.4%	0.95	0.98	0.90	0.97	1.02	1.01
PCB-15 44'-DiCB	1.23	2.9%	1.21	1.25	1.18	1.22	1.29	1.23
PCB-19 22'6-TrCB	0.97	6.8%	0.90	1.02	0.87	0.97	1.03	1.02
PCB-37 344'-TrCB	1.28	7.6%	1.13	1.27	1.23	1.31	1.40	1.36
PCB-54 22'66'-TeCB	1.00	6.0%	0.93	0.98	0.94	1.03	1.07	1.05
PCB-104 22'466'-PeCB	1.06	5.5%	0.97	1.05	1.01	1.07	1.13	1.10
PCB-153/168 ...-HxCB	1.26	5.3%	1.18	1.24	1.18	1.30	1.33	1.31
PCB-155 22'44'66'-HxCB	1.12	6.8%	1.02	1.10	1.06	1.17	1.21	1.18
PCB-170 22'33'44'5'-HpCB	1.01	5.9%	0.93	1.01	0.94	1.03	1.07	1.06
PCB-180/193 ...-HpCB	1.11	4.8%	1.06	1.09	1.05	1.13	1.19	1.15
PCB-188 22'34'566'-HpCB	0.97	5.3%	0.90	0.97	0.91	1.00	1.02	1.01
PCB-202 22'33'55'66'-OcCB	0.83	7.3%	0.73	0.83	0.80	0.87	0.88	0.88
PCB-205 233'44'55'6'-OcCB	1.08	6.5%	1.07	1.00	1.00	1.10	1.17	1.14
PCB-208 22'33'455'66'-NoCB	0.99	5.3%	1.01	0.98	0.90	0.99	1.05	1.03
PCB-206 22'33'44'55'6'-NoCB	0.83	4.9%	0.81	0.82	0.77	0.84	0.88	0.86

PCB ICAL Summary - Ax2 Detail

SGS Analytical Perspectives

Printed: 25 Sep 2013 12:05

ICAL: MM4_PCB_07122013_11SEP2013

Acquired: 11 Sep 2013

Name	Mean	% RSD	0.5	1	5	50	400	2000
			CS0	CS1	CS2	CS3	CS4	CS5
PCB-1 2-MoCB	1.20	4.9%	1.15	1.19	1.12	1.19	1.27	1.25
PCB-2 3-MoCB	1.25	4.8%	1.17	1.24	1.19	1.27	1.32	1.29
PCB-3 4-MoCB	1.24	4.9%	1.16	1.25	1.17	1.26	1.31	1.28
PCB-4 22'-DiCB	0.97	4.4%	0.95	0.98	0.90	0.97	1.02	1.01
PCB-10 26-DiCB	1.51	3.5%	1.48	1.50	1.44	1.50	1.58	1.56
PCB-9 25-DiCB	1.06	4.2%	1.04	1.11	0.99	1.07	1.09	1.05
PCB-7 24-DiCB	1.23	2.9%	1.27	1.25	1.18	1.24	1.26	1.20
PCB-6 23'-DiCB	1.14	2.1%	1.14	1.13	1.11	1.15	1.18	1.11
PCB-5 23-DiCB	1.15	5.3%	1.05	1.24	1.14	1.16	1.17	1.13
PCB-8 24'-DiCB	1.18	4.9%	1.08	1.26	1.18	1.18	1.20	1.16
PCB-14 35-DiCB	1.31	7.5%	1.12	1.38	1.30	1.35	1.39	1.34
PCB-11 33'-DiCB	1.17	3.1%	1.19	1.20	1.11	1.16	1.20	1.16
PCB-13/12 34'/34-DiCB	1.17	4.6%	1.09	1.19	1.11	1.18	1.23	1.18
PCB-15 44'-DiCB	1.23	2.9%	1.21	1.25	1.18	1.22	1.29	1.23
PCB-19 22'6-TrCB	0.97	6.8%	0.90	1.02	0.87	0.97	1.03	1.02
PCB-30/18 246/22'5-TrCB	1.23	8.9%	1.09	1.21	1.14	1.26	1.35	1.36
PCB-17 22'4-TrCB	1.06	8.6%	0.92	1.04	1.00	1.08	1.15	1.16
PCB-27 23'6-TrCB	1.44	9.7%	1.27	1.38	1.31	1.48	1.60	1.59
PCB-24 236-TrCB	1.37	9.5%	1.21	1.31	1.25	1.42	1.52	1.50
PCB-16 22'3-TrCB	0.80	8.3%	0.70	0.78	0.77	0.83	0.88	0.86
PCB-32 24'6-TrCB	1.59	4.3%	1.54	1.58	1.49	1.61	1.68	1.64
PCB-34 23'5'-TrCB	1.26	5.6%	1.20	1.22	1.19	1.29	1.35	1.33
PCB-23 235-TrCB	1.31	6.2%	1.20	1.33	1.22	1.33	1.41	1.36
PCB-26/29 23'5/245-TrCB	1.33	5.8%	1.26	1.31	1.24	1.35	1.43	1.41
PCB-25 23'4-TrCB	1.33	6.7%	1.20	1.31	1.26	1.36	1.44	1.40
PCB-31 24'5-TrCB	1.39	5.2%	1.29	1.40	1.31	1.40	1.48	1.43
PCB-28/20 244'/233'-TrCB	1.30	6.5%	1.17	1.31	1.23	1.32	1.40	1.37
PCB-21/33 234/23'4'-TrCB	1.34	7.1%	1.21	1.34	1.26	1.36	1.47	1.41
PCB-22 234'-TrCB	1.22	7.7%	1.06	1.23	1.16	1.25	1.32	1.27
PCB-36 33'5-TrCB	1.35	6.6%	1.22	1.32	1.29	1.38	1.46	1.42
PCB-39 34'5-TrCB	1.40	7.0%	1.27	1.37	1.31	1.42	1.52	1.48
PCB-38 345-TrCB	1.25	8.2%	1.08	1.24	1.21	1.29	1.39	1.30
PCB-35 33'4-TrCB	1.23	6.3%	1.14	1.20	1.16	1.26	1.34	1.29
PCB-37 344'-TrCB	1.28	7.6%	1.13	1.27	1.23	1.31	1.40	1.36
PCB-54 22'66'-TeCB	1.00	6.0%	0.93	0.98	0.94	1.03	1.07	1.05
PCB-50/53 22'46/22'56'-TeCB	0.82	5.2%	0.77	0.81	0.76	0.83	0.87	0.85
PCB-45 22'36'-TeCB	0.73	6.8%	0.69	0.70	0.67	0.78	0.78	0.77
PCB-51 22'46'-TeCB	0.79	8.3%	0.69	0.84	0.76	0.77	0.87	0.82
PCB-46 22'36'-TeCB	0.66	5.3%	0.62	0.68	0.61	0.67	0.70	0.67
PCB-52 22'55'-TeCB	0.79	4.6%	0.74	0.81	0.75	0.81	0.83	0.79

PCB-73 23'56-TeCB	1.06	6.4%	0.97	1.09	1.03	1.06	1.17	1.05
PCB-43 22'35-TeCB	0.64	7.9%	0.65	0.59	0.57	0.67	0.65	0.71
PCB-69/49 23'46/22'45'-TeCB	0.95	5.8%	0.88	0.95	0.88	0.97	1.02	0.99
PCB-48 22'45-TeCB	0.79	5.6%	0.74	0.75	0.75	0.81	0.84	0.82
PCB-44/47/65 ...-TeCB	0.84	5.9%	0.77	0.86	0.79	0.86	0.90	0.87
PCB-59/62/75 ...-TeCB	1.07	6.4%	0.99	1.07	1.01	1.10	1.18	1.10
PCB-42 22'34'-TeCB	0.72	4.2%	0.68	0.71	0.69	0.74	0.76	0.73
PCB-41 22'34-TeCB	0.66	7.0%	0.59	0.64	0.64	0.65	0.72	0.70
PCB-71/40 23'4'6/22'33'-TeCB	0.79	5.7%	0.74	0.78	0.75	0.83	0.85	0.82
PCB-64 234'6-TeCB	1.13	5.7%	1.10	1.07	1.07	1.17	1.22	1.18
PCB-72 23'55'-TeCB	1.31	6.3%	1.23	1.26	1.22	1.37	1.41	1.37
PCB-68 23'45'-TeCB	1.43	6.1%	1.41	1.31	1.35	1.47	1.54	1.48
PCB-57 233'5-TeCB	1.26	5.7%	1.16	1.24	1.20	1.30	1.35	1.31
PCB-58 233'5'-TeCB	1.30	7.3%	1.17	1.31	1.21	1.36	1.43	1.34
PCB-67 23'45-TeCB	1.35	6.3%	1.25	1.28	1.28	1.39	1.46	1.42
PCB-63 234'5-TeCB	1.42	7.0%	1.27	1.43	1.33	1.46	1.54	1.49
PCB-61/70/74/76 ...-TeCB	1.32	6.2%	1.22	1.31	1.24	1.35	1.43	1.37
PCB-66 23'44'-TeCB	1.26	4.8%	1.20	1.27	1.19	1.29	1.35	1.28
PCB-55 233'4-TeCB	1.24	7.2%	1.11	1.19	1.18	1.29	1.34	1.30
PCB-56 233'4'-TeCB	1.22	5.1%	1.14	1.21	1.17	1.25	1.31	1.25
PCB-60 2344'-TeCB	1.29	5.8%	1.18	1.31	1.21	1.31	1.38	1.33
PCB-80 33'55'-TeCB	1.42	8.2%	1.23	1.39	1.35	1.49	1.55	1.50
PCB-79 33'45'-TeCB	1.47	6.2%	1.36	1.45	1.39	1.53	1.61	1.47
PCB-78 33'45-TeCB	1.23	4.9%	1.17	1.27	1.16	1.26	1.30	1.25
PCB-104 22'466'-PeCB	1.06	5.5%	0.97	1.05	1.01	1.07	1.13	1.10
PCB-96 22'366'-PeCB	0.90	8.4%	0.79	0.89	0.84	0.93	1.00	0.96
PCB-103 22'45'6-PeCB	0.84	5.8%	0.82	0.80	0.78	0.87	0.89	0.88
PCB-94 22'356'-PeCB	0.73	4.9%	0.71	0.71	0.68	0.75	0.77	0.76
PCB-95 22'35'6-PeCB	0.78	5.9%	0.73	0.79	0.71	0.80	0.82	0.82
PCB-100/93 22'44'6/22'356-PeCB	0.77	7.2%	0.73	0.72	0.72	0.81	0.85	0.81
PCB-102 22'456'-PeCB	0.83	4.8%	0.78	0.83	0.83	0.81	0.84	0.90
PCB-98 22'34'6'-PeCB	0.75	8.6%	0.71	0.74	0.65	0.81	0.82	0.77
PCB-88 22'346-PeCB	0.74	4.2%	0.72	0.73	0.70	0.74	0.78	0.78
PCB-91 22'34'6-PeCB	0.83	8.4%	0.78	0.80	0.73	0.87	0.92	0.87
PCB-84 22'33'6-PeCB	0.66	4.8%	0.66	0.64	0.61	0.68	0.70	0.68
PCB-89 22'346'-PeCB	0.69	7.1%	0.63	0.69	0.64	0.73	0.74	0.73
PCB-121 23'45'6-PeCB	1.06	6.2%	1.01	1.03	0.97	1.10	1.13	1.12
PCB-92 22'355'-PeCB	0.73	8.2%	0.63	0.73	0.68	0.77	0.79	0.77
PCB-113/90/101 ...-PeCB	0.85	7.1%	0.79	0.82	0.79	0.89	0.93	0.90
PCB-83 22'33'5-PeCB	0.65	8.4%	0.67	0.59	0.58	0.70	0.71	0.63
PCB-99 22'44'5-PeCB	0.84	7.5%	0.80	0.87	0.75	0.84	0.86	0.93
PCB-112 233'56-PeCB	1.00	6.7%	0.91	0.96	0.96	1.04	1.08	1.04
PCB-109/119/86/97/125...-PeCB	0.87	6.2%	0.82	0.85	0.81	0.90	0.94	0.90
PCB-117 234'56-PeCB	0.88	16.4%	0.70	0.76	0.83	1.05	1.05	0.87
PCB-116/85 23456/22'344'-PeCB	0.91	5.9%	0.90	0.92	0.84	0.88	0.94	1.00
PCB-110 233'4'6-PeCB	0.99	4.7%	0.91	0.98	0.99	1.00	1.00	1.06
PCB-115 2344'6-PeCB	1.01	9.3%	0.96	0.99	0.86	1.07	1.13	1.04

PCB-82 22'33'4-PeCB	0.62	7.5%	0.58	0.60	0.57	0.66	0.68	0.66
PCB-111 233'55'-PeCB	1.07	6.1%	1.02	1.05	0.98	1.12	1.15	1.11
PCB-120 23'455'-PeCB	1.07	6.2%	1.05	1.01	0.99	1.12	1.15	1.12
PCB-108/124 ...-PeCB	0.98	6.5%	0.91	0.95	0.91	1.03	1.05	1.04
PCB-107 233'4'5-PeCB	1.07	11.4%	0.86	1.07	1.00	1.14	1.17	1.17
PCB-106 233'45-PeCB	1.00	7.5%	0.96	0.95	0.90	1.06	1.09	1.04
PCB-122 233'4'5'-PeCB	0.89	7.2%	0.81	0.86	0.83	0.92	0.97	0.95
PCB-127 33'455'-PeCB	0.98	7.4%	0.88	0.96	0.93	1.01	1.07	1.05
PCB-155 22'44'66'-HxCB	1.12	6.8%	1.02	1.10	1.06	1.17	1.21	1.18
PCB-152 22'3566'-HxCB	1.05	7.8%	0.97	1.03	0.95	1.09	1.15	1.12
PCB-150 22'34'66'-HxCB	1.07	5.5%	1.04	1.05	0.97	1.10	1.12	1.12
PCB-136 22'33'66'-HxCB	0.99	6.1%	0.94	0.94	0.93	1.01	1.06	1.06
PCB-145 22'3466'-HxCB	1.00	6.9%	0.94	0.96	0.91	1.03	1.07	1.06
PCB-148 22'34'56'-HxCB	1.03	6.2%	0.95	1.03	0.95	1.06	1.11	1.06
PCB-151/135 ...-HxCB	1.00	4.6%	0.99	0.99	0.92	1.02	1.06	1.02
PCB-154 22'44'56'-HxCB	1.13	6.7%	1.07	1.08	1.04	1.16	1.23	1.18
PCB-144 22'345'6-HxCB	1.03	5.0%	1.05	0.99	0.94	1.05	1.09	1.05
PCB-147/149 ...-HxCB	1.03	5.7%	1.03	0.98	0.94	1.05	1.10	1.06
PCB-134 22'33'56'-HxCB	0.84	7.2%	0.81	0.89	0.77	0.79	0.93	0.83
PCB-143 22'3456'-HxCB	0.95	11.0%	0.83	0.84	0.91	1.07	1.00	1.05
PCB-139/140 ...-HxCB	1.05	5.2%	1.01	1.03	0.97	1.07	1.13	1.08
PCB-131 22'33'46-HxCB	0.87	8.5%	0.78	0.83	0.82	0.92	0.96	0.93
PCB-142 22'3456-HxCB	0.91	4.9%	0.88	0.89	0.85	0.92	0.98	0.93
PCB-132 22'33'46'-HxCB	0.92	5.0%	0.90	0.89	0.85	0.94	0.99	0.94
PCB-133 22'33'55'-HxCB	0.97	5.0%	0.97	0.93	0.89	0.99	1.03	0.99
PCB-165 233'55'6-HxCB	1.19	4.6%	1.16	1.19	1.11	1.23	1.27	1.22
PCB-146 22'34'55'-HxCB	1.08	4.7%	1.06	1.09	1.01	1.09	1.16	1.09
PCB-161 233'45'6-HxCB	1.34	6.4%	1.24	1.41	1.23	1.41	1.41	1.37
PCB-153/168 ...-HxCB	1.26	5.3%	1.18	1.24	1.18	1.30	1.33	1.31
PCB-141 22'3455'-HxCB	0.98	5.2%	0.95	0.97	0.91	1.00	1.06	1.00
PCB-130 22'33'45'-HxCB	0.88	5.5%	0.82	0.91	0.81	0.90	0.92	0.89
PCB-137 22'344'5-HxCB	1.07	5.4%	1.07	1.04	0.99	1.07	1.17	1.10
PCB-164 233'4'5'6-HxCB	1.29	5.8%	1.19	1.31	1.21	1.36	1.33	1.35
PCB-163/138/129 ...-HxCB	1.05	6.3%	0.99	1.01	0.97	1.08	1.15	1.08
PCB-160 233'456-HxCB	1.26	8.0%	1.14	1.26	1.13	1.35	1.31	1.34
PCB-158 233'44'6-HxCB	1.40	6.3%	1.28	1.39	1.31	1.46	1.50	1.45
PCB-128/166 ...-HxCB	0.89	6.8%	0.85	0.84	0.81	0.91	0.96	0.94
PCB-159 233'455'-HxCB	1.04	6.6%	0.98	1.00	0.97	1.07	1.14	1.09
PCB-162 233'4'55'-HxCB	1.04	6.9%	1.02	0.95	0.97	1.08	1.12	1.09
PCB-188 22'34'566'-HpCB	0.97	5.3%	0.90	0.97	0.91	1.00	1.02	1.01
PCB-179 22'33'566'-HpCB	0.89	4.5%	0.84	0.88	0.86	0.92	0.94	0.93
PCB-184 22'344'66'-HpCB	0.87	8.1%	0.74	0.90	0.84	0.91	0.93	0.91
PCB-176 22'33'466'-HpCB	0.97	5.0%	0.93	0.93	0.91	0.99	1.02	1.01
PCB-186 22'34566'-HpCB	0.93	4.3%	0.89	0.95	0.88	0.96	0.97	0.96
PCB-178 22'33'55'6-HpCB	0.67	5.5%	0.63	0.69	0.62	0.69	0.70	0.71
PCB-175 22'33'45'6-HpCB	0.97	5.0%	0.93	0.94	0.93	1.00	1.05	1.00
PCB-187 22'34'55'6-HpCB	1.02	4.6%	0.98	0.99	0.97	1.04	1.09	1.05

PCB-182 22'344'56'-HpCB	1.05	4.4%	1.07	0.98	1.01	1.06	1.11	1.07
PCB-183 22'344'5'6'-HpCB	1.07	8.1%	1.10	0.94	1.03	1.05	1.20	1.09
PCB-185 22'3455'6'-HpCB	0.96	7.1%	0.90	0.92	0.88	1.03	0.97	1.04
PCB-174 22'33'456'-HpCB	0.86	8.2%	0.74	0.84	0.83	0.88	0.95	0.89
PCB-177 22'33'45'6'-HpCB	0.83	8.1%	0.74	0.79	0.79	0.87	0.91	0.89
PCB-181 22'344'56'-HpCB	1.00	5.6%	0.94	0.97	0.94	1.01	1.07	1.05
PCB-171/173 ...-HpCB	0.86	5.9%	0.83	0.83	0.80	0.88	0.93	0.90
PCB-172 22'33'455'-HpCB	0.87	7.5%	0.80	0.83	0.81	0.92	0.96	0.92
PCB-192 233'455'6'-HpCB	1.19	5.2%	1.14	1.17	1.10	1.22	1.27	1.22
PCB-180/193 ...-HpCB	1.11	4.8%	1.06	1.09	1.05	1.13	1.19	1.15
PCB-191 233'44'5'6'-HpCB	1.23	5.5%	1.13	1.26	1.18	1.26	1.32	1.26
PCB-170 22'33'44'5'-HpCB	1.01	5.9%	0.93	1.01	0.94	1.03	1.07	1.06
PCB-190 233'44'56'-HpCB	1.42	4.8%	1.39	1.40	1.31	1.43	1.49	1.48
PCB-202 22'33'55'66'-OcCB	0.83	7.3%	0.73	0.83	0.80	0.87	0.88	0.88
PCB-201 22'33'45'66'-OcCB	0.94	4.3%	0.89	0.95	0.90	0.96	0.99	0.98
PCB-204 22'344'566'-OcCB	0.87	6.9%	0.80	0.83	0.83	0.91	0.94	0.92
PCB-197 22'33'44'66'-OcCB	0.97	2.9%	0.96	0.97	0.94	0.99	0.97	1.02
PCB-200 22'33'4566'-OcCB	0.89	10.9%	0.74	0.92	0.80	0.95	1.00	0.92
PCB-198/199 ...-OcCB	0.66	5.8%	0.62	0.64	0.61	0.68	0.69	0.69
PCB-196 22'33'44'56'-OcCB	0.70	3.1%	0.69	0.70	0.67	0.72	0.73	0.71
PCB-203 22'344'55'6'-OcCB	0.74	3.2%	0.73	0.74	0.69	0.75	0.76	0.75
PCB-195 22'33'44'56'-OcCB	0.78	5.9%	0.75	0.77	0.71	0.79	0.84	0.82
PCB-194 22'33'44'55'-OcCB	0.85	6.4%	0.83	0.83	0.76	0.86	0.91	0.89
PCB-205 233'44'55'6'-OcCB	1.08	6.5%	1.07	1.00	1.00	1.10	1.17	1.14
PCB-208 22'33'455'66'-NoCB	0.99	5.3%	1.01	0.98	0.90	0.99	1.05	1.03
PCB-207 22'33'44'566'-NoCB	1.03	5.6%	1.02	0.98	0.94	1.03	1.10	1.07
PCB-206 22'33'44'55'6'-NoCB	0.83	4.9%	0.81	0.82	0.77	0.84	0.88	0.86

PCB ICAL Summary - Ax2 Detail

SGS Analytical Perspectives

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ICAL: MM4_PCB_07122013_11SEP2013

Acquired: 11 Sep 2013

Name	Mean	% RSD	0.5	1	5	50	400	2000
			CS0	CS1	CS2	CS3	CS4	CS5
PCB-1 2-MoCB	1.20	4.9%	1.15	1.19	1.12	1.19	1.27	1.25
PCB-2 3-MoCB	1.25	4.8%	1.17	1.24	1.19	1.27	1.32	1.29
PCB-3 4-MoCB	1.24	4.9%	1.16	1.25	1.17	1.26	1.31	1.28
PCB-4 22'-DiCB	0.97	4.4%	0.95	0.98	0.90	0.97	1.02	1.01
PCB-10 26-DiCB	1.51	3.5%	1.48	1.50	1.44	1.50	1.58	1.56
PCB-9 25-DiCB	1.06	4.2%	1.04	1.11	0.99	1.07	1.09	1.05
PCB-7 24-DiCB	1.23	2.9%	1.27	1.25	1.18	1.24	1.26	1.20
PCB-6 23'-DiCB	1.14	2.1%	1.14	1.13	1.11	1.15	1.18	1.11
PCB-5 23-DiCB	1.15	5.3%	1.05	1.24	1.14	1.16	1.17	1.13
PCB-8 24'-DiCB	1.18	4.9%	1.08	1.26	1.18	1.18	1.20	1.16
PCB-14 35-DiCB	1.31	7.5%	1.12	1.38	1.30	1.35	1.39	1.34
PCB-11 33'-DiCB	1.17	3.1%	1.19	1.20	1.11	1.16	1.20	1.16
PCB-13/12 34'/34-DiCB	1.17	4.6%	1.09	1.19	1.11	1.18	1.23	1.18
PCB-15 44'-DiCB	1.23	2.9%	1.21	1.25	1.18	1.22	1.29	1.23
PCB-19 22'6-TrCB	0.97	6.8%	0.90	1.02	0.87	0.97	1.03	1.02
PCB-30/18 246/22'5-TrCB	1.23	8.9%	1.09	1.21	1.14	1.26	1.35	1.36
PCB-17 22'4-TrCB	1.06	8.6%	0.92	1.04	1.00	1.08	1.15	1.16
PCB-27 23'6-TrCB	1.44	9.7%	1.27	1.38	1.31	1.48	1.60	1.59
PCB-24 236-TrCB	1.37	9.5%	1.21	1.31	1.25	1.42	1.52	1.50
PCB-16 22'3-TrCB	0.80	8.3%	0.70	0.78	0.77	0.83	0.88	0.86
PCB-32 24'6-TrCB	1.59	4.3%	1.54	1.58	1.49	1.61	1.68	1.64
PCB-34 23'5'-TrCB	1.26	5.6%	1.20	1.22	1.19	1.29	1.35	1.33
PCB-23 235-TrCB	1.31	6.2%	1.20	1.33	1.22	1.33	1.41	1.36
PCB-26/29 23'5/245-TrCB	1.33	5.8%	1.26	1.31	1.24	1.35	1.43	1.41
PCB-25 23'4-TrCB	1.33	6.7%	1.20	1.31	1.26	1.36	1.44	1.40
PCB-31 24'5-TrCB	1.39	5.2%	1.29	1.40	1.31	1.40	1.48	1.43
PCB-28/20 244'/233'-TrCB	1.30	6.5%	1.17	1.31	1.23	1.32	1.40	1.37
PCB-21/33 234/23'4'-TrCB	1.34	7.1%	1.21	1.34	1.26	1.36	1.47	1.41
PCB-22 234'-TrCB	1.22	7.7%	1.06	1.23	1.16	1.25	1.32	1.27
PCB-36 33'5-TrCB	1.35	6.6%	1.22	1.32	1.29	1.38	1.46	1.42
PCB-39 34'5-TrCB	1.40	7.0%	1.27	1.37	1.31	1.42	1.52	1.48
PCB-38 345-TrCB	1.25	8.2%	1.08	1.24	1.21	1.29	1.39	1.30
PCB-35 33'4-TrCB	1.23	6.3%	1.14	1.20	1.16	1.26	1.34	1.29
PCB-37 344'-TrCB	1.28	7.6%	1.13	1.27	1.23	1.31	1.40	1.36
PCB-54 22'66'-TeCB	1.00	6.0%	0.93	0.98	0.94	1.03	1.07	1.05
PCB-50/53 22'46/22'56'-TeCB	0.82	5.2%	0.77	0.81	0.76	0.83	0.87	0.85
PCB-45 22'36'-TeCB	0.73	6.8%	0.69	0.70	0.67	0.78	0.78	0.77
PCB-51 22'46'-TeCB	0.79	8.3%	0.69	0.84	0.76	0.77	0.87	0.82
PCB-46 22'36'-TeCB	0.66	5.3%	0.62	0.68	0.61	0.67	0.70	0.67
PCB-52 22'55'-TeCB	0.79	4.6%	0.74	0.81	0.75	0.81	0.83	0.79

PCB-73 23'5'6-TeCB	1.06	6.4%	0.97	1.09	1.03	1.06	1.17	1.05
PCB-43 22'35-TeCB	0.64	7.9%	0.65	0.59	0.57	0.67	0.65	0.71
PCB-69/49 23'46/22'45'-TeCB	0.95	5.8%	0.88	0.95	0.88	0.97	1.02	0.99
PCB-48 22'45-TeCB	0.79	5.6%	0.74	0.75	0.75	0.81	0.84	0.82
PCB-44/47/65 ...-TeCB	0.84	5.9%	0.77	0.86	0.79	0.86	0.90	0.87
PCB-59/62/75 ...-TeCB	1.07	6.4%	0.99	1.07	1.01	1.10	1.18	1.10
PCB-42 22'34'-TeCB	0.72	4.2%	0.68	0.71	0.69	0.74	0.76	0.73
PCB-41 22'34-TeCB	0.66	7.0%	0.59	0.64	0.64	0.65	0.72	0.70
PCB-71/40 23'4'6/22'33'-TeCB	0.79	5.7%	0.74	0.78	0.75	0.83	0.85	0.82
PCB-64 234'6-TeCB	1.13	5.7%	1.10	1.07	1.07	1.17	1.22	1.18
PCB-72 23'55'-TeCB	1.31	6.3%	1.23	1.26	1.22	1.37	1.41	1.37
PCB-68 23'45'-TeCB	1.43	6.1%	1.41	1.31	1.35	1.47	1.54	1.48
PCB-57 233'5-TeCB	1.26	5.7%	1.16	1.24	1.20	1.30	1.35	1.31
PCB-58 233'5'-TeCB	1.30	7.3%	1.17	1.31	1.21	1.36	1.43	1.34
PCB-67 23'45-TeCB	1.35	6.3%	1.25	1.28	1.28	1.39	1.46	1.42
PCB-63 234'5-TeCB	1.42	7.0%	1.27	1.43	1.33	1.46	1.54	1.49
PCB-61/70/74/76 ...-TeCB	1.32	6.2%	1.22	1.31	1.24	1.35	1.43	1.37
PCB-66 23'44'-TeCB	1.26	4.8%	1.20	1.27	1.19	1.29	1.35	1.28
PCB-55 233'4-TeCB	1.24	7.2%	1.11	1.19	1.18	1.29	1.34	1.30
PCB-56 233'4'-TeCB	1.22	5.1%	1.14	1.21	1.17	1.25	1.31	1.25
PCB-60 2344'-TeCB	1.29	5.8%	1.18	1.31	1.21	1.31	1.38	1.33
PCB-80 33'55'-TeCB	1.42	8.2%	1.23	1.39	1.35	1.49	1.55	1.50
PCB-79 33'45'-TeCB	1.47	6.2%	1.36	1.45	1.39	1.53	1.61	1.47
PCB-78 33'45-TeCB	1.23	4.9%	1.17	1.27	1.16	1.26	1.30	1.25
PCB-104 22'466'-PeCB	1.06	5.5%	0.97	1.05	1.01	1.07	1.13	1.10
PCB-96 22'366'-PeCB	0.90	8.4%	0.79	0.89	0.84	0.93	1.00	0.96
PCB-103 22'45'6-PeCB	0.84	5.8%	0.82	0.80	0.78	0.87	0.89	0.88
PCB-94 22'356'-PeCB	0.73	4.9%	0.71	0.71	0.68	0.75	0.77	0.76
PCB-95 22'35'6-PeCB	0.78	5.9%	0.73	0.79	0.71	0.80	0.82	0.82
PCB-100/93 22'44'6/22'356-PeCB	0.77	7.2%	0.73	0.72	0.72	0.81	0.85	0.81
PCB-102 22'456'-PeCB	0.83	4.8%	0.78	0.83	0.83	0.81	0.84	0.90
PCB-98 22'34'6'-PeCB	0.75	8.6%	0.71	0.74	0.65	0.81	0.82	0.77
PCB-88 22'346-PeCB	0.74	4.2%	0.72	0.73	0.70	0.74	0.78	0.78
PCB-91 22'34'6-PeCB	0.83	8.4%	0.78	0.80	0.73	0.87	0.92	0.87
PCB-84 22'33'6-PeCB	0.66	4.8%	0.66	0.64	0.61	0.68	0.70	0.68
PCB-89 22'346'-PeCB	0.69	7.1%	0.63	0.69	0.64	0.73	0.74	0.73
PCB-121 23'45'6-PeCB	1.06	6.2%	1.01	1.03	0.97	1.10	1.13	1.12
PCB-92 22'355'-PeCB	0.73	8.2%	0.63	0.73	0.68	0.77	0.79	0.77
PCB-113/90/101 ...-PeCB	0.85	7.1%	0.79	0.82	0.79	0.89	0.93	0.90
PCB-83 22'33'5-PeCB	0.65	8.4%	0.67	0.59	0.58	0.70	0.71	0.63
PCB-99 22'44'5-PeCB	0.84	7.5%	0.80	0.87	0.75	0.84	0.86	0.93
PCB-112 233'56-PeCB	1.00	6.7%	0.91	0.96	0.96	1.04	1.08	1.04
PCB-109/119/86/97/125...-PeCB	0.87	6.2%	0.82	0.85	0.81	0.90	0.94	0.90
PCB-117 234'56-PeCB	0.88	16.4%	0.70	0.76	0.83	1.05	1.05	0.87
PCB-116/85 23456/22'344'-PeCB	0.91	5.9%	0.90	0.92	0.84	0.88	0.94	1.00
PCB-110 233'4'6-PeCB	0.99	4.7%	0.91	0.98	0.99	1.00	1.00	1.06
PCB-115 2344'6-PeCB	1.01	9.3%	0.96	0.99	0.86	1.07	1.13	1.04

PCB-82 22'33'4-PeCB	0.62	7.5%	0.58	0.60	0.57	0.66	0.68	0.66
PCB-111 233'55'-PeCB	1.07	6.1%	1.02	1.05	0.98	1.12	1.15	1.11
PCB-120 23'455'-PeCB	1.07	6.2%	1.05	1.01	0.99	1.12	1.15	1.12
PCB-108/124 ...-PeCB	0.98	6.5%	0.91	0.95	0.91	1.03	1.05	1.04
PCB-107 233'4'5-PeCB	1.07	11.4%	0.86	1.07	1.00	1.14	1.17	1.17
PCB-106 233'45-PeCB	1.00	7.5%	0.96	0.95	0.90	1.06	1.09	1.04
PCB-122 233'4'5'-PeCB	0.89	7.2%	0.81	0.86	0.83	0.92	0.97	0.95
PCB-127 33'455'-PeCB	0.98	7.4%	0.88	0.96	0.93	1.01	1.07	1.05
PCB-155 22'44'66'-HxCB	1.12	6.8%	1.02	1.10	1.06	1.17	1.21	1.18
PCB-152 22'3566'-HxCB	1.05	7.8%	0.97	1.03	0.95	1.09	1.15	1.12
PCB-150 22'34'66'-HxCB	1.07	5.5%	1.04	1.05	0.97	1.10	1.12	1.12
PCB-136 22'33'66'-HxCB	0.99	6.1%	0.94	0.94	0.93	1.01	1.06	1.06
PCB-145 22'3466'-HxCB	1.00	6.9%	0.94	0.96	0.91	1.03	1.07	1.06
PCB-148 22'34'56'-HxCB	1.03	6.2%	0.95	1.03	0.95	1.06	1.11	1.06
PCB-151/135 ...-HxCB	1.00	4.6%	0.99	0.99	0.92	1.02	1.06	1.02
PCB-154 22'44'56'-HxCB	1.13	6.7%	1.07	1.08	1.04	1.16	1.23	1.18
PCB-144 22'345'6-HxCB	1.03	5.0%	1.05	0.99	0.94	1.05	1.09	1.05
PCB-147/149 ...-HxCB	1.03	5.7%	1.03	0.98	0.94	1.05	1.10	1.06
PCB-134 22'33'56'-HxCB	0.84	7.2%	0.81	0.89	0.77	0.79	0.93	0.83
PCB-143 22'3456'-HxCB	0.95	11.0%	0.83	0.84	0.91	1.07	1.00	1.05
PCB-139/140 ...-HxCB	1.05	5.2%	1.01	1.03	0.97	1.07	1.13	1.08
PCB-131 22'33'46-HxCB	0.87	8.5%	0.78	0.83	0.82	0.92	0.96	0.93
PCB-142 22'3456-HxCB	0.91	4.9%	0.88	0.89	0.85	0.92	0.98	0.93
PCB-132 22'33'46'-HxCB	0.92	5.0%	0.90	0.89	0.85	0.94	0.99	0.94
PCB-133 22'33'55'-HxCB	0.97	5.0%	0.97	0.93	0.89	0.99	1.03	0.99
PCB-165 233'55'6-HxCB	1.19	4.6%	1.16	1.19	1.11	1.23	1.27	1.22
PCB-146 22'34'55'-HxCB	1.08	4.7%	1.06	1.09	1.01	1.09	1.16	1.09
PCB-161 233'45'6-HxCB	1.34	6.4%	1.24	1.41	1.23	1.41	1.41	1.37
PCB-153/168 ...-HxCB	1.26	5.3%	1.18	1.24	1.18	1.30	1.33	1.31
PCB-141 22'3455'-HxCB	0.98	5.2%	0.95	0.97	0.91	1.00	1.06	1.00
PCB-130 22'33'45'-HxCB	0.88	5.5%	0.82	0.91	0.81	0.90	0.92	0.89
PCB-137 22'344'5-HxCB	1.07	5.4%	1.07	1.04	0.99	1.07	1.17	1.10
PCB-164 233'4'5'6-HxCB	1.29	5.8%	1.19	1.31	1.21	1.36	1.33	1.35
PCB-163/138/129 ...-HxCB	1.05	6.3%	0.99	1.01	0.97	1.08	1.15	1.08
PCB-160 233'456-HxCB	1.26	8.0%	1.14	1.26	1.13	1.35	1.31	1.34
PCB-158 233'44'6-HxCB	1.40	6.3%	1.28	1.39	1.31	1.46	1.50	1.45
PCB-128/166 ...-HxCB	0.89	6.8%	0.85	0.84	0.81	0.91	0.96	0.94
PCB-159 233'455'-HxCB	1.04	6.6%	0.98	1.00	0.97	1.07	1.14	1.09
PCB-162 233'4'55'-HxCB	1.04	6.9%	1.02	0.95	0.97	1.08	1.12	1.09
PCB-188 22'34'566'-HpCB	0.97	5.3%	0.90	0.97	0.91	1.00	1.02	1.01
PCB-179 22'33'566'-HpCB	0.89	4.5%	0.84	0.88	0.86	0.92	0.94	0.93
PCB-184 22'344'66'-HpCB	0.87	8.1%	0.74	0.90	0.84	0.91	0.93	0.91
PCB-176 22'33'466'-HpCB	0.97	5.0%	0.93	0.93	0.91	0.99	1.02	1.01
PCB-186 22'34566'-HpCB	0.93	4.3%	0.89	0.95	0.88	0.96	0.97	0.96
PCB-178 22'33'55'6-HpCB	0.67	5.5%	0.63	0.69	0.62	0.69	0.70	0.71
PCB-175 22'33'45'6-HpCB	0.97	5.0%	0.93	0.94	0.93	1.00	1.05	1.00
PCB-187 22'34'55'6-HpCB	1.02	4.6%	0.98	0.99	0.97	1.04	1.09	1.05

PCB-182 22'344'56'-HpCB	1.05	4.4%	1.07	0.98	1.01	1.06	1.11	1.07
PCB-183 22'344'5'6'-HpCB	1.07	8.1%	1.10	0.94	1.03	1.05	1.20	1.09
PCB-185 22'3455'6'-HpCB	0.96	7.1%	0.90	0.92	0.88	1.03	0.97	1.04
PCB-174 22'33'456'-HpCB	0.86	8.2%	0.74	0.84	0.83	0.88	0.95	0.89
PCB-177 22'33'45'6'-HpCB	0.83	8.1%	0.74	0.79	0.79	0.87	0.91	0.89
PCB-181 22'344'56'-HpCB	1.00	5.6%	0.94	0.97	0.94	1.01	1.07	1.05
PCB-171/173 ...-HpCB	0.86	5.9%	0.83	0.83	0.80	0.88	0.93	0.90
PCB-172 22'33'455'-HpCB	0.87	7.5%	0.80	0.83	0.81	0.92	0.96	0.92
PCB-192 233'455'6'-HpCB	1.19	5.2%	1.14	1.17	1.10	1.22	1.27	1.22
PCB-180/193 ...-HpCB	1.11	4.8%	1.06	1.09	1.05	1.13	1.19	1.15
PCB-191 233'44'5'6'-HpCB	1.23	5.5%	1.13	1.26	1.18	1.26	1.32	1.26
PCB-170 22'33'44'5'-HpCB	1.01	5.9%	0.93	1.01	0.94	1.03	1.07	1.06
PCB-190 233'44'56'-HpCB	1.42	4.8%	1.39	1.40	1.31	1.43	1.49	1.48
PCB-202 22'33'55'66'-OcCB	0.83	7.3%	0.73	0.83	0.80	0.87	0.88	0.88
PCB-201 22'33'45'66'-OcCB	0.94	4.3%	0.89	0.95	0.90	0.96	0.99	0.98
PCB-204 22'344'566'-OcCB	0.87	6.9%	0.80	0.83	0.83	0.91	0.94	0.92
PCB-197 22'33'44'66'-OcCB	0.97	2.9%	0.96	0.97	0.94	0.99	0.97	1.02
PCB-200 22'33'4566'-OcCB	0.89	10.9%	0.74	0.92	0.80	0.95	1.00	0.92
PCB-198/199 ...-OcCB	0.66	5.8%	0.62	0.64	0.61	0.68	0.69	0.69
PCB-196 22'33'44'56'-OcCB	0.70	3.1%	0.69	0.70	0.67	0.72	0.73	0.71
PCB-203 22'344'55'6'-OcCB	0.74	3.2%	0.73	0.74	0.69	0.75	0.76	0.75
PCB-195 22'33'44'56'-OcCB	0.78	5.9%	0.75	0.77	0.71	0.79	0.84	0.82
PCB-194 22'33'44'55'-OcCB	0.85	6.4%	0.83	0.83	0.76	0.86	0.91	0.89
PCB-205 233'44'55'6'-OcCB	1.08	6.5%	1.07	1.00	1.00	1.10	1.17	1.14
PCB-208 22'33'455'66'-NoCB	0.99	5.3%	1.01	0.98	0.90	0.99	1.05	1.03
PCB-207 22'33'44'566'-NoCB	1.03	5.6%	1.02	0.98	0.94	1.03	1.10	1.07
PCB-206 22'33'44'55'6'-NoCB	0.83	4.9%	0.81	0.82	0.77	0.84	0.88	0.86

PCB ICAL Summary - Ax2 Detail

SGS Analytical Perspectives

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ICAL: MM4_PCB_07122013_11SEP2013

Acquired: 11 Sep 2013

Name	Mean	% RSD	0.5	1	5	50	400	2000
			CS0	CS1	CS2	CS3	CS4	CS5
PCB-1 2-MoCB	1.20	4.9%	1.15	1.19	1.12	1.19	1.27	1.25
PCB-2 3-MoCB	1.25	4.8%	1.17	1.24	1.19	1.27	1.32	1.29
PCB-3 4-MoCB	1.24	4.9%	1.16	1.25	1.17	1.26	1.31	1.28
PCB-4 22'-DiCB	0.97	4.4%	0.95	0.98	0.90	0.97	1.02	1.01
PCB-10 26-DiCB	1.51	3.5%	1.48	1.50	1.44	1.50	1.58	1.56
PCB-9 25-DiCB	1.06	4.2%	1.04	1.11	0.99	1.07	1.09	1.05
PCB-7 24-DiCB	1.23	2.9%	1.27	1.25	1.18	1.24	1.26	1.20
PCB-6 23'-DiCB	1.14	2.1%	1.14	1.13	1.11	1.15	1.18	1.11
PCB-5 23-DiCB	1.15	5.3%	1.05	1.24	1.14	1.16	1.17	1.13
PCB-8 24'-DiCB	1.18	4.9%	1.08	1.26	1.18	1.18	1.20	1.16
PCB-14 35-DiCB	1.31	7.5%	1.12	1.38	1.30	1.35	1.39	1.34
PCB-11 33'-DiCB	1.17	3.1%	1.19	1.20	1.11	1.16	1.20	1.16
PCB-13/12 34'/34-DiCB	1.17	4.6%	1.09	1.19	1.11	1.18	1.23	1.18
PCB-15 44'-DiCB	1.23	2.9%	1.21	1.25	1.18	1.22	1.29	1.23
PCB-19 22'6-TrCB	0.97	6.8%	0.90	1.02	0.87	0.97	1.03	1.02
PCB-30/18 246/22'5-TrCB	1.23	8.9%	1.09	1.21	1.14	1.26	1.35	1.36
PCB-17 22'4-TrCB	1.06	8.6%	0.92	1.04	1.00	1.08	1.15	1.16
PCB-27 23'6-TrCB	1.44	9.7%	1.27	1.38	1.31	1.48	1.60	1.59
PCB-24 236-TrCB	1.37	9.5%	1.21	1.31	1.25	1.42	1.52	1.50
PCB-16 22'3-TrCB	0.80	8.3%	0.70	0.78	0.77	0.83	0.88	0.86
PCB-32 24'6-TrCB	1.59	4.3%	1.54	1.58	1.49	1.61	1.68	1.64
PCB-34 23'5'-TrCB	1.26	5.6%	1.20	1.22	1.19	1.29	1.35	1.33
PCB-23 235-TrCB	1.31	6.2%	1.20	1.33	1.22	1.33	1.41	1.36
PCB-26/29 23'5/245-TrCB	1.33	5.8%	1.26	1.31	1.24	1.35	1.43	1.41
PCB-25 23'4-TrCB	1.33	6.7%	1.20	1.31	1.26	1.36	1.44	1.40
PCB-31 24'5-TrCB	1.39	5.2%	1.29	1.40	1.31	1.40	1.48	1.43
PCB-28/20 244'/233'-TrCB	1.30	6.5%	1.17	1.31	1.23	1.32	1.40	1.37
PCB-21/33 234/23'4'-TrCB	1.34	7.1%	1.21	1.34	1.26	1.36	1.47	1.41
PCB-22 234'-TrCB	1.22	7.7%	1.06	1.23	1.16	1.25	1.32	1.27
PCB-36 33'5-TrCB	1.35	6.6%	1.22	1.32	1.29	1.38	1.46	1.42
PCB-39 34'5-TrCB	1.40	7.0%	1.27	1.37	1.31	1.42	1.52	1.48
PCB-38 345-TrCB	1.25	8.2%	1.08	1.24	1.21	1.29	1.39	1.30
PCB-35 33'4-TrCB	1.23	6.3%	1.14	1.20	1.16	1.26	1.34	1.29
PCB-37 344'-TrCB	1.28	7.6%	1.13	1.27	1.23	1.31	1.40	1.36
PCB-54 22'66'-TeCB	1.00	6.0%	0.93	0.98	0.94	1.03	1.07	1.05
PCB-50/53 22'46/22'56'-TeCB	0.82	5.2%	0.77	0.81	0.76	0.83	0.87	0.85
PCB-45 22'36'-TeCB	0.73	6.8%	0.69	0.70	0.67	0.78	0.78	0.77
PCB-51 22'46'-TeCB	0.79	8.3%	0.69	0.84	0.76	0.77	0.87	0.82
PCB-46 22'36'-TeCB	0.66	5.3%	0.62	0.68	0.61	0.67	0.70	0.67
PCB-52 22'55'-TeCB	0.79	4.6%	0.74	0.81	0.75	0.81	0.83	0.79

PCB-73 23'56-TeCB	1.06	6.4%	0.97	1.09	1.03	1.06	1.17	1.05
PCB-43 22'35-TeCB	0.64	7.9%	0.65	0.59	0.57	0.67	0.65	0.71
PCB-69/49 23'46/22'45'-TeCB	0.95	5.8%	0.88	0.95	0.88	0.97	1.02	0.99
PCB-48 22'45-TeCB	0.79	5.6%	0.74	0.75	0.75	0.81	0.84	0.82
PCB-44/47/65 ...-TeCB	0.84	5.9%	0.77	0.86	0.79	0.86	0.90	0.87
PCB-59/62/75 ...-TeCB	1.07	6.4%	0.99	1.07	1.01	1.10	1.18	1.10
PCB-42 22'34'-TeCB	0.72	4.2%	0.68	0.71	0.69	0.74	0.76	0.73
PCB-41 22'34-TeCB	0.66	7.0%	0.59	0.64	0.64	0.65	0.72	0.70
PCB-71/40 23'4'6/22'33'-TeCB	0.79	5.7%	0.74	0.78	0.75	0.83	0.85	0.82
PCB-64 234'6-TeCB	1.13	5.7%	1.10	1.07	1.07	1.17	1.22	1.18
PCB-72 23'55'-TeCB	1.31	6.3%	1.23	1.26	1.22	1.37	1.41	1.37
PCB-68 23'45'-TeCB	1.43	6.1%	1.41	1.31	1.35	1.47	1.54	1.48
PCB-57 233'5-TeCB	1.26	5.7%	1.16	1.24	1.20	1.30	1.35	1.31
PCB-58 233'5'-TeCB	1.30	7.3%	1.17	1.31	1.21	1.36	1.43	1.34
PCB-67 23'45-TeCB	1.35	6.3%	1.25	1.28	1.28	1.39	1.46	1.42
PCB-63 234'5-TeCB	1.42	7.0%	1.27	1.43	1.33	1.46	1.54	1.49
PCB-61/70/74/76 ...-TeCB	1.32	6.2%	1.22	1.31	1.24	1.35	1.43	1.37
PCB-66 23'44'-TeCB	1.26	4.8%	1.20	1.27	1.19	1.29	1.35	1.28
PCB-55 233'4-TeCB	1.24	7.2%	1.11	1.19	1.18	1.29	1.34	1.30
PCB-56 233'4'-TeCB	1.22	5.1%	1.14	1.21	1.17	1.25	1.31	1.25
PCB-60 2344'-TeCB	1.29	5.8%	1.18	1.31	1.21	1.31	1.38	1.33
PCB-80 33'55'-TeCB	1.42	8.2%	1.23	1.39	1.35	1.49	1.55	1.50
PCB-79 33'45'-TeCB	1.47	6.2%	1.36	1.45	1.39	1.53	1.61	1.47
PCB-78 33'45-TeCB	1.23	4.9%	1.17	1.27	1.16	1.26	1.30	1.25
PCB-104 22'466'-PeCB	1.06	5.5%	0.97	1.05	1.01	1.07	1.13	1.10
PCB-96 22'366'-PeCB	0.90	8.4%	0.79	0.89	0.84	0.93	1.00	0.96
PCB-103 22'45'6-PeCB	0.84	5.8%	0.82	0.80	0.78	0.87	0.89	0.88
PCB-94 22'356'-PeCB	0.73	4.9%	0.71	0.71	0.68	0.75	0.77	0.76
PCB-95 22'35'6-PeCB	0.78	5.9%	0.73	0.79	0.71	0.80	0.82	0.82
PCB-100/93 22'44'6/22'356-PeCB	0.77	7.2%	0.73	0.72	0.72	0.81	0.85	0.81
PCB-102 22'456'-PeCB	0.83	4.8%	0.78	0.83	0.83	0.81	0.84	0.90
PCB-98 22'34'6'-PeCB	0.75	8.6%	0.71	0.74	0.65	0.81	0.82	0.77
PCB-88 22'346-PeCB	0.74	4.2%	0.72	0.73	0.70	0.74	0.78	0.78
PCB-91 22'34'6-PeCB	0.83	8.4%	0.78	0.80	0.73	0.87	0.92	0.87
PCB-84 22'33'6-PeCB	0.66	4.8%	0.66	0.64	0.61	0.68	0.70	0.68
PCB-89 22'346'-PeCB	0.69	7.1%	0.63	0.69	0.64	0.73	0.74	0.73
PCB-121 23'45'6-PeCB	1.06	6.2%	1.01	1.03	0.97	1.10	1.13	1.12
PCB-92 22'355'-PeCB	0.73	8.2%	0.63	0.73	0.68	0.77	0.79	0.77
PCB-113/90/101 ...-PeCB	0.85	7.1%	0.79	0.82	0.79	0.89	0.93	0.90
PCB-83 22'33'5-PeCB	0.65	8.4%	0.67	0.59	0.58	0.70	0.71	0.63
PCB-99 22'44'5-PeCB	0.84	7.5%	0.80	0.87	0.75	0.84	0.86	0.93
PCB-112 233'56-PeCB	1.00	6.7%	0.91	0.96	0.96	1.04	1.08	1.04
PCB-109/119/86/97/125...-PeCB	0.87	6.2%	0.82	0.85	0.81	0.90	0.94	0.90
PCB-117 234'56-PeCB	0.88	16.4%	0.70	0.76	0.83	1.05	1.05	0.87
PCB-116/85 23456/22'344'-PeCB	0.91	5.9%	0.90	0.92	0.84	0.88	0.94	1.00
PCB-110 233'4'6-PeCB	0.99	4.7%	0.91	0.98	0.99	1.00	1.00	1.06
PCB-115 2344'6-PeCB	1.01	9.3%	0.96	0.99	0.86	1.07	1.13	1.04

PCB-82 22'33'4-PeCB	0.62	7.5%	0.58	0.60	0.57	0.66	0.68	0.66
PCB-111 233'55'-PeCB	1.07	6.1%	1.02	1.05	0.98	1.12	1.15	1.11
PCB-120 23'455'-PeCB	1.07	6.2%	1.05	1.01	0.99	1.12	1.15	1.12
PCB-108/124 ...-PeCB	0.98	6.5%	0.91	0.95	0.91	1.03	1.05	1.04
PCB-107 233'4'5-PeCB	1.07	11.4%	0.86	1.07	1.00	1.14	1.17	1.17
PCB-106 233'45-PeCB	1.00	7.5%	0.96	0.95	0.90	1.06	1.09	1.04
PCB-122 233'4'5'-PeCB	0.89	7.2%	0.81	0.86	0.83	0.92	0.97	0.95
PCB-127 33'455'-PeCB	0.98	7.4%	0.88	0.96	0.93	1.01	1.07	1.05
PCB-155 22'44'66'-HxCB	1.12	6.8%	1.02	1.10	1.06	1.17	1.21	1.18
PCB-152 22'3566'-HxCB	1.05	7.8%	0.97	1.03	0.95	1.09	1.15	1.12
PCB-150 22'34'66'-HxCB	1.07	5.5%	1.04	1.05	0.97	1.10	1.12	1.12
PCB-136 22'33'66'-HxCB	0.99	6.1%	0.94	0.94	0.93	1.01	1.06	1.06
PCB-145 22'3466'-HxCB	1.00	6.9%	0.94	0.96	0.91	1.03	1.07	1.06
PCB-148 22'34'56'-HxCB	1.03	6.2%	0.95	1.03	0.95	1.06	1.11	1.06
PCB-151/135 ...-HxCB	1.00	4.6%	0.99	0.99	0.92	1.02	1.06	1.02
PCB-154 22'44'56'-HxCB	1.13	6.7%	1.07	1.08	1.04	1.16	1.23	1.18
PCB-144 22'345'6-HxCB	1.03	5.0%	1.05	0.99	0.94	1.05	1.09	1.05
PCB-147/149 ...-HxCB	1.03	5.7%	1.03	0.98	0.94	1.05	1.10	1.06
PCB-134 22'33'56'-HxCB	0.84	7.2%	0.81	0.89	0.77	0.79	0.93	0.83
PCB-143 22'3456'-HxCB	0.95	11.0%	0.83	0.84	0.91	1.07	1.00	1.05
PCB-139/140 ...-HxCB	1.05	5.2%	1.01	1.03	0.97	1.07	1.13	1.08
PCB-131 22'33'46-HxCB	0.87	8.5%	0.78	0.83	0.82	0.92	0.96	0.93
PCB-142 22'3456-HxCB	0.91	4.9%	0.88	0.89	0.85	0.92	0.98	0.93
PCB-132 22'33'46'-HxCB	0.92	5.0%	0.90	0.89	0.85	0.94	0.99	0.94
PCB-133 22'33'55'-HxCB	0.97	5.0%	0.97	0.93	0.89	0.99	1.03	0.99
PCB-165 233'55'6-HxCB	1.19	4.6%	1.16	1.19	1.11	1.23	1.27	1.22
PCB-146 22'34'55'-HxCB	1.08	4.7%	1.06	1.09	1.01	1.09	1.16	1.09
PCB-161 233'45'6-HxCB	1.34	6.4%	1.24	1.41	1.23	1.41	1.41	1.37
PCB-153/168 ...-HxCB	1.26	5.3%	1.18	1.24	1.18	1.30	1.33	1.31
PCB-141 22'3455'-HxCB	0.98	5.2%	0.95	0.97	0.91	1.00	1.06	1.00
PCB-130 22'33'45'-HxCB	0.88	5.5%	0.82	0.91	0.81	0.90	0.92	0.89
PCB-137 22'344'5-HxCB	1.07	5.4%	1.07	1.04	0.99	1.07	1.17	1.10
PCB-164 233'4'5'6-HxCB	1.29	5.8%	1.19	1.31	1.21	1.36	1.33	1.35
PCB-163/138/129 ...-HxCB	1.05	6.3%	0.99	1.01	0.97	1.08	1.15	1.08
PCB-160 233'456-HxCB	1.26	8.0%	1.14	1.26	1.13	1.35	1.31	1.34
PCB-158 233'44'6-HxCB	1.40	6.3%	1.28	1.39	1.31	1.46	1.50	1.45
PCB-128/166 ...-HxCB	0.89	6.8%	0.85	0.84	0.81	0.91	0.96	0.94
PCB-159 233'455'-HxCB	1.04	6.6%	0.98	1.00	0.97	1.07	1.14	1.09
PCB-162 233'4'55'-HxCB	1.04	6.9%	1.02	0.95	0.97	1.08	1.12	1.09
PCB-188 22'34'566'-HpCB	0.97	5.3%	0.90	0.97	0.91	1.00	1.02	1.01
PCB-179 22'33'566'-HpCB	0.89	4.5%	0.84	0.88	0.86	0.92	0.94	0.93
PCB-184 22'344'66'-HpCB	0.87	8.1%	0.74	0.90	0.84	0.91	0.93	0.91
PCB-176 22'33'466'-HpCB	0.97	5.0%	0.93	0.93	0.91	0.99	1.02	1.01
PCB-186 22'34566'-HpCB	0.93	4.3%	0.89	0.95	0.88	0.96	0.97	0.96
PCB-178 22'33'55'6-HpCB	0.67	5.5%	0.63	0.69	0.62	0.69	0.70	0.71
PCB-175 22'33'45'6-HpCB	0.97	5.0%	0.93	0.94	0.93	1.00	1.05	1.00
PCB-187 22'34'55'6-HpCB	1.02	4.6%	0.98	0.99	0.97	1.04	1.09	1.05

PCB-182 22'344'56'-HpCB	1.05	4.4%	1.07	0.98	1.01	1.06	1.11	1.07
PCB-183 22'344'5'6'-HpCB	1.07	8.1%	1.10	0.94	1.03	1.05	1.20	1.09
PCB-185 22'3455'6'-HpCB	0.96	7.1%	0.90	0.92	0.88	1.03	0.97	1.04
PCB-174 22'33'456'-HpCB	0.86	8.2%	0.74	0.84	0.83	0.88	0.95	0.89
PCB-177 22'33'45'6'-HpCB	0.83	8.1%	0.74	0.79	0.79	0.87	0.91	0.89
PCB-181 22'344'56'-HpCB	1.00	5.6%	0.94	0.97	0.94	1.01	1.07	1.05
PCB-171/173 ...-HpCB	0.86	5.9%	0.83	0.83	0.80	0.88	0.93	0.90
PCB-172 22'33'455'-HpCB	0.87	7.5%	0.80	0.83	0.81	0.92	0.96	0.92
PCB-192 233'455'6'-HpCB	1.19	5.2%	1.14	1.17	1.10	1.22	1.27	1.22
PCB-180/193 ...-HpCB	1.11	4.8%	1.06	1.09	1.05	1.13	1.19	1.15
PCB-191 233'44'5'6'-HpCB	1.23	5.5%	1.13	1.26	1.18	1.26	1.32	1.26
PCB-170 22'33'44'5'-HpCB	1.01	5.9%	0.93	1.01	0.94	1.03	1.07	1.06
PCB-190 233'44'56'-HpCB	1.42	4.8%	1.39	1.40	1.31	1.43	1.49	1.48
PCB-202 22'33'55'66'-OcCB	0.83	7.3%	0.73	0.83	0.80	0.87	0.88	0.88
PCB-201 22'33'45'66'-OcCB	0.94	4.3%	0.89	0.95	0.90	0.96	0.99	0.98
PCB-204 22'344'566'-OcCB	0.87	6.9%	0.80	0.83	0.83	0.91	0.94	0.92
PCB-197 22'33'44'66'-OcCB	0.97	2.9%	0.96	0.97	0.94	0.99	0.97	1.02
PCB-200 22'33'4566'-OcCB	0.89	10.9%	0.74	0.92	0.80	0.95	1.00	0.92
PCB-198/199 ...-OcCB	0.66	5.8%	0.62	0.64	0.61	0.68	0.69	0.69
PCB-196 22'33'44'56'-OcCB	0.70	3.1%	0.69	0.70	0.67	0.72	0.73	0.71
PCB-203 22'344'55'6'-OcCB	0.74	3.2%	0.73	0.74	0.69	0.75	0.76	0.75
PCB-195 22'33'44'56'-OcCB	0.78	5.9%	0.75	0.77	0.71	0.79	0.84	0.82
PCB-194 22'33'44'55'-OcCB	0.85	6.4%	0.83	0.83	0.76	0.86	0.91	0.89
PCB-205 233'44'55'6'-OcCB	1.08	6.5%	1.07	1.00	1.00	1.10	1.17	1.14
PCB-208 22'33'455'66'-NoCB	0.99	5.3%	1.01	0.98	0.90	0.99	1.05	1.03
PCB-207 22'33'44'566'-NoCB	1.03	5.6%	1.02	0.98	0.94	1.03	1.10	1.07
PCB-206 22'33'44'55'6'-NoCB	0.83	4.9%	0.81	0.82	0.77	0.84	0.88	0.86

1668A/B ICALS																	PD from
Ax	RSD	Mean	sd	MM4_PCB_07192011_28SEP11	MM4_PCB_01102012_26JAN12	MM4_PCB_07132012_06AUG12	MM4_PCB_07132012_14 NOV2012	MM4_PCB_07132012_18 APR2013	MM4_PCB_07122013_11 SEP2013	RSD	Mean	sd	Mean				
77	7.6	1.04	0.08	1.20	1.22	1.32	1.12	1.20	1.51	10.9	1.26	0.14	19.9%				
81	9.8	1.09	0.11	1.08	1.24	1.30	1.11	1.23	1.27	7.3	1.20	0.09	5.5%				
105	8.6	0.98	0.08	0.89	1.03	1.09	1.04	1.03	1.00	6.5	1.01	0.07	-1.6%				
114	8.5	0.97	0.08	0.94	1.1	1.18	1.10	1.10	1.06	7.1	1.08	0.08	-1.8%				
118	7.2	0.98	0.07	0.88	1.03	1.13	1.06	1.06	1.01	7.9	1.03	0.08	-1.8%				
123	6.4	0.97	0.06	1.00	0.93	1.14	1.12	1.11	1.06	7.8	1.06	0.08	0.0%				
126	8.2	0.98	0.08	0.96	1.11	1.19	1.03	1.15	1.26	9.7	1.12	0.11	12.8%				
156/157	4.6	0.97	0.05	1.05	1.05	1.13	1.12	1.10	1.06	3.3	1.09	0.04	-2.2%				
167	5.2	0.96	0.05	1.11	1.08	1.14	1.17	1.14	1.12	2.7	1.13	0.03	-0.7%				
169	4.6	0.93	0.04	1.06	1.04	1.13	1.13	1.11	1.09	3.5	1.09	0.04	-0.8%				
189	9.8	0.93	0.09	1.19	1.11	1.16	1.02	1.12	1.15	5.2	1.13	0.06	2.3%				
1	10.9	1.18	0.13	1.18	1.2	1.28	1.00	1.07	1.20	8.7	1.15	0.10	3.6%				
3	9.5	1.18	0.11	1.13	1.13	1.34	1.04	1.10	1.24	9.4	1.16	0.11	6.4%				
4	10.4	0.97	0.10	0.89	0.94	1.11	0.97	0.98	0.97	7.4	0.97	0.07	-0.5%				
15	7.2	0.99	0.07	1.08	1.01	1.14	0.97	1.04	1.23	8.7	1.08	0.09	13.8%				
19	5.3	1.04	0.06	0.95	1.01	1.12	1.04	1.03	0.97	6.0	1.02	0.06	-5.0%				
37	8.1	1.05	0.08	1.18	1.2	1.38	1.15	1.19	1.28	7.0	1.23	0.09	4.3%				
54	9.1	1.02	0.09	0.88	0.93	1.12	1.05	1.07	1.00	8.8	1.01	0.09	-0.7%				
104	9.0	1.00	0.09	0.87	0.92	1.15	1.09	1.11	1.06	11.0	1.03	0.11	2.3%				
153				1.10	1.15	1.28	1.18	1.20	1.26	5.6	1.19	0.07	5.3%				
155	5.1	1.02	0.05	1.00	1.06	1.14	1.09	1.10	1.12	4.8	1.08	0.05	3.6%				
170				1.01	1.00	1.11	0.99	1.01	1.01	4.3	1.02	0.04	-1.2%				
180				1.08	1.01	1.17	1.06	1.08	1.11	4.8	1.09	0.05	2.3%				
188	6.5	1.06	0.07	1.02	1.07	1.18	1.03	1.06	0.97	6.5	1.06	0.07	-8.1%				
202	7.6	0.87	0.07	0.78	0.83	0.87	0.84	0.81	0.83	3.7	0.83	0.03	0.5%				
205	5.8	1.02	0.06	1.03	1.09	1.16	1.17	1.12	1.08	4.6	1.11	0.05	-2.5%				
208	4.5	0.94	0.04	0.88	0.98	1.02	1.00	0.97	0.99	5.1	0.97	0.05	1.9%				
206	7.1	0.98	0.07	0.91	0.93	0.97	0.97	0.94	0.83	5.5	0.92	0.05	-10.2%				
209	6.4	0.94	0.06	1.02	1.05	1.08	1.07	1.04	1.03	1.9	1.05	0.02	-1.4%				
ES																	
1	10.8	0.98	0.11	1.07	1.01	0.97	1.06	1.08	1.04	3.9	1.04	0.04	0.3%				
3	10.3	0.98	0.10	1.07	1.05	0.91	1.02	1.02	0.99	5.5	1.01	0.06	-2.2%				
4	8.3	0.71	0.06	0.84	0.7	0.48	0.64	0.75	0.71	17.4	0.69	0.12	3.3%				
15	6.3	1.05	0.07	1.12	1.17	1.05	1.12	1.05	1.09	4.2	1.10	0.05	-0.9%				
19	8.4	0.58	0.05	0.63	0.57	0.46	0.55	0.61	0.59	10.5	0.57	0.06	3.7%				
37	7.8	1.40	0.11	1.17	1.41	1.65	1.58	1.41	1.32	12.1	1.42	0.17	-7.4%				
54	13.1	1.35	0.18	1.59	1.32	1.05	1.25	1.31	1.35	13.2	1.31	0.17	2.8%				
77	7.9	1.20	0.10	1.05	1.22	1.55	1.50	1.20	1.07	17.0	1.27	0.21	-15.6%				
81	7.0	1.17	0.08	1.11	1.15	1.51	1.44	1.16	1.19	13.7	1.26	0.17	-5.6%				
104	12.1	1.48	0.18	1.97	1.69	1.62	1.30	1.36	1.62	21.8	1.50	0.33	8.0%				
105	5.1	1.18	0.06	1.18	1.21	1.16	1.22	1.16	1.30	4.6	1.20	0.06	8.1%				
114	4.2	1.23	0.05	1.24	1.23	1.19	1.24	1.20	1.32	3.7	1.24	0.05	6.7%				
118	5.2	1.24	0.07	1.27	1.25	1.21	1.25	1.20	1.30	3.1	1.25	0.04	4.5%				
123	5.4	1.20	0.06	1.15	1.33	1.17	1.22	1.16	1.26	5.7	1.22	0.07	3.8%				
126	8.5	1.29	0.11	1.16	1.36	1.54	1.37	1.14	1.41	11.6	1.33	0.15	5.8%				
153				1.13	1.09	1.13	1.11	1.15	1.15	2.3	1.13	0.03	2.4%				
155	5.0	1.51	0.08	1.56	1.4	1.59	1.41	1.55	1.53	5.3	1.51	0.08	1.8%				
156/157	15.9	1.15	0.18	0.92	1.13	1.50	1.15	1.14	1.19	16.1	1.17	0.19	1.3%				
167	14.1	1.18	0.17	0.94	1.13	1.54	1.18	1.18	1.22	16.1	1.20	0.19	2.1%				
169	19.8	1.10	0.22	0.80	1.14	1.45	1.11	1.09	1.18	18.4	1.13	0.21	4.9%				
170				1.31	1.23	0.96	1.13	1.12	1.22	10.6	1.16	0.12	5.1%				
180				1.52	1.46	1.10	1.29	1.32	1.41	11.0	1.35	0.15	4.2%				
188	12.9	1.39	0.18	1.66	1.34	1.09	1.35	1.39	1.71	16.0	1.42	0.23	19.9%				
189	9.1	1.70	0.15	1.55	1.77	1.97	1.70	1.55	1.84	9.6	1.73	0.17	6.3%				
202	9.7	1.32	0.13	1.46	1.27	1.16	1.30	1.28	1.42	8.3	1.31	0.11	7.9%				
205	4.3	1.26	0.05	1.21	1.25	1.21	1.19	1.20	1.25	2.2	1.22	0.03	3.0%				
206	7.4	0.94	0.07	1.12	1.07	0.90	1.00	1.05	1.24	10.5	1.06	0.11	16.3%				
208	8.5	1.31	0.11	1.61	1.34	1.15	1.27	1.32	1.42	11.4	1.35	0.15	5.1%				
209	6.3	1.21	0.08	1.19	1.18	1.15	1.16	1.22	1.23	2.7	1.19	0.03	3.7%				
SS																	
28	7.1	1.11	0.08	1.05	0.98	1.12	1.06	1.10	1.06	4.6	1.06	0.05	0.0%				
111	6.3	1.07	0.07	1.02	0.90	1.00	0.98	1.02	1.06	5.4	1.00	0.05	6.3%				
178	4.6	0.68	0.03	0.66	0.65	0.60	0.65	0.61	0.58	5.2	0.63	0.03	-6.9%				

Additional Ax										RSD	Mean	sd	PD from Historical Mean
PCB-1 2-MgCB	0.88	1.20	1.28	1.00	1.07	1.20	13.5	1.10	0.15	8.3%			
PCB-2 3-MgCB	0.84	1.13	1.30	1.04	1.11	1.25	14.8	1.11	0.16	12.3%			
PCB-3 4-MgCB	0.83	1.13	1.34	1.04	1.10	1.24	15.7	1.11	0.18	11.2%			
PCB-4 22-DICB	0.86	0.94	1.11	0.97	0.98	0.97	8.3	0.97	0.08	0.0%			
PCB-10 26-DICB	1.33	1.70	1.70	1.45	1.51	1.51	8.2	1.49	0.12	1.3%			
PCB-9 25-DICB	0.73	0.87	1.00	0.84	0.92	1.06	13.3	0.90	0.12	17.5%			
PCB-7 24-DICB	0.81	1.00	1.16	0.97	1.05	1.23	14.2	1.04	0.15	18.8%			
PCB-6 23-DICB	0.76	0.94	1.07	0.90	0.99	1.14	13.7	0.97	0.13	17.8%			
PCB-5 23-DICB	0.76	0.92	1.05	0.90	0.98	1.15	14.0	0.96	0.13	19.6%			
PCB-8 24-DICB	0.77	0.95	1.14	0.92	1.01	1.18	15.1	1.00	0.15	18.0%			
PCB-14 35-DICB	0.89	1.09	1.25	1.06	1.17	1.31	13.4	1.13	0.15	16.3%			
PCB-11 33-DICB	0.78	0.98	1.06	0.95	0.99	1.17	13.0	0.99	0.13	18.4%			
PCB-13/12 34-/34-DICB	0.79	0.97	1.08	0.93	0.99	1.17	13.1	0.99	0.13	17.9%			
PCB-15 44-DICB	0.83	1.01	1.14	0.97	1.04	1.23	13.3	1.04	0.14	18.4%			
PCB-19 226-TrCB	0.95	1.01	1.12	1.04	1.03	0.97	6.1	1.02	0.06	-4.9%			
PCB-30/18 246-/225-TrCB	1.21	1.29	1.43	1.35	1.33	1.23	6.1	1.31	0.08	-5.6%			
PCB-17 224-TrCB	1.04	1.14	1.24	1.17	1.14	1.06	6.6	1.13	0.07	-6.7%			
PCB-27 236-TrCB	1.41	1.48	1.63	1.53	1.54	1.44	5.3	1.51	0.08	-4.5%			
PCB-24 236-TrCB	1.34	1.43	1.60	1.46	1.50	1.37	6.5	1.45	0.09	-5.7%			
PCB-16 223-TrCB	0.84	0.89	0.96	0.91	0.86	0.80	6.3	0.88	0.06	-8.2%			
PCB-32 246-TrCB	1.46	1.56	1.73	1.62	1.59	1.59	5.4	1.59	0.09	0.0%			
PCB-34 235-TrCB	0.98	1.18	1.37	1.10	1.20	1.26	11.3	1.18	0.13	7.1%			
PCB-23 235-TrCB	0.99	1.19	1.45	1.12	1.22	1.31	12.9	1.21	0.16	8.0%			
PCB-26/29 235-/245-TrCB	1.02	1.20	1.41	1.13	1.24	1.33	11.4	1.22	0.14	9.1%			
PCB-25 234-TrCB	1.02	1.19	1.45	1.14	1.25	1.33	12.2	1.23	0.15	8.0%			
PCB-31 245-TrCB	1.04	1.23	1.49	1.17	1.28	1.39	12.4	1.26	0.16	9.6%			
PCB-28/20 244-/233-TrCB	1.00	1.18	1.39	1.12	1.21	1.30	11.4	1.20	0.14	8.1%			
PCB-21/33 234-/234-TrCB	1.02	1.21	1.47	1.16	1.25	1.34	12.4	1.24	0.15	7.9%			
PCB-22 234-TrCB	0.93	1.11	1.34	1.07	1.15	1.22	11.9	1.14	0.14	7.0%			
PCB-36 335-TrCB	1.05	1.21	1.44	1.19	1.26	1.35	10.7	1.25	0.13	7.9%			
PCB-39 345-TrCB	1.09	1.32	1.47	1.22	1.30	1.40	10.3	1.30	0.13	7.5%			
PCB-38 345-TrCB	0.96	1.15	1.33	1.12	1.18	1.25	10.8	1.17	0.13	7.1%			
PCB-35 334-TrCB	0.96	1.13	1.30	1.10	1.13	1.23	10.2	1.14	0.12	7.8%			
PCB-37 344-TrCB	0.98	1.20	1.38	1.15	1.19	1.28	11.2	1.20	0.13	7.1%			
PCB-54 2266-TeCB	1.17	0.93	1.12	1.05	1.07	1.00	7.9	1.06	0.08	-5.2%			
PCB-50/53 2246-/2256TeCB	0.59	0.83	0.74	0.72	0.94	0.82	15.4	0.77	0.12	5.5%			
PCB-45 2236-TeCB	0.50	0.71	0.66	0.64	0.80	0.73	14.9	0.67	0.10	8.5%			
PCB-51 2246-TeCB	0.60	0.88	0.74	0.74	0.97	0.79	16.3	0.79	0.13	0.8%			
PCB-46 2236-TeCB	0.46	0.69	0.62	0.60	0.78	0.66	16.9	0.64	0.11	3.5%			
PCB-52 2255-TeCB	0.54	0.80	0.71	0.70	0.89	0.79	16.4	0.74	0.12	6.9%			
PCB-73 2356TeCB	0.69	1.03	0.93	0.91	1.22	1.06	18.1	0.97	0.18	8.7%			
PCB-43 2235-TeCB	0.45	0.71	0.65	0.63	0.75	0.64	15.9	0.64	0.10	0.4%			
PCB-69/49 2346-/2245TeCB	0.66	0.96	0.86	0.85	1.08	0.95	15.9	0.89	0.14	6.1%			
PCB-48 2245-TeCB	0.54	0.84	0.72	0.74	0.91	0.79	16.7	0.76	0.13	4.1%			
PCB-44/47/65 2235-/2244-	0.58	0.86	0.75	0.77	0.96	0.84	15.9	0.79	0.13	5.9%			
PCB-59/62/75 2336-/2346-/24	0.75	1.09	0.96	0.97	1.23	1.07	16.0	1.01	0.16	6.1%			
PCB-42 2234-TeCB	0.50	0.77	0.69	0.67	0.84	0.72	16.7	0.70	0.12	3.5%			
PCB-41 2234-TeCB	0.46	0.73	0.62	0.62	0.76	0.66	16.4	0.64	0.10	2.4%			
PCB-71/40 2346/2233-TeCB	0.55	0.81	0.72	0.75	0.93	0.79	16.7	0.76	0.13	4.6%			
PCB-64 2346-TeCB	0.77	1.17	1.01	1.04	1.31	1.13	17.1	1.07	0.18	5.9%			
PCB-72 2355-TeCB	0.87	1.25	1.36	1.14	1.28	1.31	14.8	1.20	0.18	8.9%			
PCB-68 2345-TeCB	0.94	1.36	1.49	1.19	1.41	1.43	15.5	1.30	0.20	9.4%			
PCB-57 2335-TeCB	0.88	1.22	1.34	1.07	1.22	1.26	14.3	1.16	0.17	8.1%			
PCB-58 2335-TeCB	0.86	1.35	1.35	1.10	1.27	1.30	15.3	1.19	0.18	9.7%			
PCB-67 2345-TeCB	0.89	1.27	1.40	1.12	1.30	1.35	15.4	1.22	0.19	10.3%			
PCB-63 2345-TeCB	0.94	1.34	1.47	1.21	1.34	1.42	15.0	1.29	0.19	10.4%			
PCB-61/70/74/76 2345-/2345	0.87	1.24	1.37	1.10	1.25	1.32	15.2	1.19	0.18	10.5%			
PCB-66 2344-TeCB	0.83	1.19	1.26	1.05	1.17	1.26	14.7	1.12	0.17	12.2%			
PCB-55 2334-TeCB	0.83	1.22	1.34	1.06	1.20	1.24	15.5	1.15	0.18	7.6%			
PCB-56 2334-TeCB	0.80	1.18	1.24	1.03	1.17	1.22	15.0	1.11	0.17	10.6%			
PCB-60 2344-TeCB	0.82	1.24	1.33	1.10	1.23	1.29	16.0	1.17	0.19	10.1%			
PCB-80 3355-TeCB	0.97	1.37	1.49	1.24	1.39	1.42	14.3	1.31	0.19	8.0%			
PCB-79 3345-TeCB	0.95	1.37	1.47	1.24	1.43	1.47	15.2	1.32	0.20	11.3%			
PCB-78 3345-TeCB	0.80	1.19	1.23	1.07	1.16	1.23	14.8	1.12	0.16	10.7%			
PCB-104 22466-PeCB	1.14	0.92	1.15	1.09	1.11	1.06	8.0	1.08	0.09	-2.0%			
PCB-96 22366-PeCB	0.98	0.81	1.00	0.96	0.96	0.90	7.5	0.94	0.07	-3.7%			
PCB-103 22456-PeCB	0.78	0.78	0.95	0.83	0.89	0.84	8.1	0.84	0.07	-0.6%			
PCB-94 22356-PeCB	0.66	0.71	0.84	0.74	0.79	0.73	8.4	0.75	0.06	-2.4%			
PCB-95 22356-PeCB	0.71	0.74	0.90	0.78	0.82	0.78	8.2	0.79	0.06	-1.1%			
PCB-100/93 22446-/22356-P	0.70	0.75	0.91	0.80	0.84	0.77	9.0	0.80	0.07	-2.7%			
PCB-102 22456-PeCB	0.82	0.75	1.02	0.88	0.92	0.83	10.8	0.87	0.09	-4.3%			
PCB-98 22346-PeCB	0.66	0.71	0.80	0.70	0.76	0.75	7.0	0.73	0.05	2.7%			
PCB-88 22346-PeCB	0.67	0.66	0.82	0.70	0.79	0.74	8.9	0.73	0.07	1.5%			

PCB-91 22'34'6'-PeCB	0.78	0.84	0.99	0.88	0.89	0.83	8.1	0.87	0.07	-4.2%
PCB-84 22'33'6'-PeCB	0.63	0.65	0.79	0.68	0.72	0.66	8.3	0.69	0.06	-3.7%
PCB-89 22'34'6'-PeCB	0.67	0.69	0.80	0.73	0.76	0.69	7.0	0.72	0.05	-3.9%
PCB-121 23'45'6'-PeCB	0.95	0.98	1.17	1.07	1.11	1.06	7.7	1.06	0.08	0.0%
PCB-92 22'35'5'-PeCB	0.71	0.72	0.84	0.74	0.80	0.73	6.9	0.76	0.05	-3.5%
PCB-113/90/101 23'3'5'6'-/22'3	0.84	0.81	0.97	0.89	0.93	0.85	6.7	0.88	0.06	-3.0%
PCB-83 22'33'5'-PeCB	0.61	0.62	0.72	0.68	0.68	0.65	6.2	0.66	0.04	-2.2%
PCB-99 22'44'5'-PeCB	0.75	0.76	0.89	0.83	0.90	0.84	7.5	0.83	0.06	1.2%
PCB-112 23'3'5'6'-PeCB	0.98	0.96	1.14	1.04	1.05	1.00	6.5	1.03	0.07	-3.1%
PCB-108/119/86/97/125/87 233	0.84	0.83	0.98	0.90	0.93	0.87	6.5	0.89	0.06	-2.4%
PCB-117 23'4'5'6'-PeCB	0.93	0.94	1.11	0.91	0.98	0.88	8.5	0.96	0.08	-8.6%
PCB-116/85 23'4'5'6'-/22'3'4'4'-Pe	0.81	0.81	0.96	0.96	0.95	0.91	8.2	0.90	0.07	1.4%
PCB-110 23'3'4'6'-PeCB	0.91	0.92	1.12	0.98	1.06	0.99	8.2	0.99	0.08	-0.6%
PCB-115 23'4'4'6'-PeCB	0.98	0.95	1.11	1.05	1.07	1.01	5.9	1.03	0.06	-1.6%
PCB-82 22'33'4'-PeCB	0.61	0.62	0.73	0.67	0.68	0.62	7.2	0.66	0.05	-5.0%
PCB-111 23'3'5'5'-PeCB	1.05	0.98	1.18	1.09	1.12	1.07	6.2	1.08	0.07	-1.0%
PCB-120 23'4'5'5'-PeCB	1.02	0.99	1.15	1.09	1.11	1.07	5.5	1.07	0.06	-0.1%
PCB-107/124 23'3'4'5'-/2'3'4'5'5'	0.95	0.92	1.08	1.03	1.02	0.98	5.7	1.00	0.06	-1.2%
PCB-109 23'3'4'6'-PeCB	1.01	1.00	1.10	1.09	1.12	1.07	4.9	1.06	0.05	0.5%
PCB-106 23'3'4'5'-PeCB	0.95	0.96	1.13	1.02	1.02	1.00	6.2	1.01	0.06	-1.3%
PCB-122 2'3'3'4'5'-PeCB	0.80	0.93	0.99	0.95	0.93	0.89	7.2	0.91	0.07	-2.5%
PCB-127 3'3'4'5'5'-PeCB	0.93	1.04	1.07	1.04	1.02	0.98	5.2	1.01	0.05	-3.1%
PCB-155 22'4'4'6'6'-HxCB	1.06	1.06	1.14	1.09	1.10	1.12	3.2	1.09	0.03	2.7%
PCB-152 22'3'5'6'6'-HxCB	0.99	0.98	1.07	0.98	1.03	1.05	3.7	1.02	0.04	3.4%
PCB-150 22'3'4'6'6'-HxCB	0.96	0.99	1.08	0.99	1.03	1.07	4.7	1.02	0.05	4.5%
PCB-136 22'3'3'6'6'-HxCB	0.91	0.92	0.99	0.94	0.95	0.99	3.8	0.95	0.04	4.3%
PCB-145 22'3'4'6'6'-HxCB	0.94	0.94	1.02	0.95	0.97	1.00	3.5	0.97	0.03	2.7%
PCB-148 22'3'4'5'6'-HxCB	0.96	0.95	1.09	0.95	0.99	1.03	5.7	0.99	0.06	3.3%
PCB-151/135 22'3'5'5'6'-/22'3'3'	0.92	0.92	1.07	0.93	0.97	1.00	6.4	0.97	0.06	3.3%
PCB-154 22'4'4'5'6'-HxCB	1.05	1.01	1.17	1.05	1.10	1.13	5.4	1.09	0.06	3.7%
PCB-144 22'3'4'5'6'-HxCB	0.94	0.93	1.08	0.94	0.99	1.03	6.0	0.99	0.06	4.4%
PCB-147/149 22'3'4'5'6'-/22'3'4'	0.95	0.94	1.08	0.96	0.99	1.03	5.4	0.99	0.05	3.7%
PCB-134 22'3'3'5'6'-HxCB	0.76	0.78	0.88	0.80	0.79	0.84	5.2	0.81	0.04	3.6%
PCB-143 22'3'4'5'6'-HxCB	0.89	0.90	1.06	0.90	0.97	0.95	7.1	0.94	0.07	0.3%
PCB-139/140 22'3'4'4'6'-/22'3'4'4'	0.96	0.95	1.09	0.97	1.01	1.05	5.4	1.01	0.05	4.3%
PCB-131 22'3'3'4'6'-HxCB	0.84	0.84	0.98	0.85	0.87	0.87	6.1	0.88	0.05	-0.2%
PCB-142 22'3'4'5'6'-HxCB	0.84	0.87	0.96	0.88	0.87	0.91	4.8	0.89	0.04	2.3%
PCB-132 22'3'3'4'6'-HxCB	0.87	0.88	0.96	0.89	0.89	0.92	3.6	0.90	0.03	1.8%
PCB-133 22'3'3'5'5'-HxCB	0.95	0.89	1.01	0.92	0.93	0.97	4.4	0.94	0.04	2.4%
PCB-165 23'3'5'5'6'-HxCB	1.11	1.06	1.22	1.11	1.13	1.19	5.2	1.14	0.06	5.0%
PCB-146 22'3'4'5'5'-HxCB	0.98	0.94	1.08	0.99	1.00	1.08	5.6	1.01	0.06	7.0%
PCB-161 23'3'4'5'6'-HxCB	1.25	1.20	1.36	1.23	1.26	1.34	5.2	1.27	0.07	5.6%
PCB-153/168 22'4'4'5'5'-/23'4'4'	1.14	1.15	1.28	1.18	1.20	1.26	4.7	1.20	0.06	4.7%
PCB-141 22'3'4'5'5'-HxCB	0.93	0.91	1.07	0.93	0.94	0.98	5.9	0.96	0.06	2.1%
PCB-130 22'3'3'4'5'-HxCB	0.82	0.82	0.91	0.84	0.82	0.88	4.2	0.85	0.04	3.4%
PCB-137 22'3'4'4'5'-HxCB	1.00	1.00	1.09	1.03	1.01	1.07	3.7	1.03	0.04	3.8%
PCB-164 23'3'4'5'6'-HxCB	1.25	1.14	1.35	1.20	1.20	1.29	6.2	1.24	0.08	4.3%
PCB-163/138/129 23'3'4'5'6'-/22'	1.00	0.98	1.08	1.01	1.01	1.05	3.3	1.02	0.03	2.6%
PCB-160 23'3'4'5'6'-HxCB	1.17	1.14	1.30	1.17	1.16	1.26	5.2	1.20	0.06	4.7%
PCB-158 23'3'4'4'6'-HxCB	1.40	1.24	1.43	1.30	1.30	1.40	5.5	1.35	0.07	4.0%
PCB-128/166 22'3'3'4'4'-/23'4'4'5'	0.95	0.86	0.94	0.93	0.93	0.89	3.8	0.92	0.03	-3.4%
PCB-159 23'3'4'5'5'-HxCB	1.14	1.03	1.07	1.08	1.07	1.04	3.7	1.07	0.04	-2.9%
PCB-162 23'3'4'5'5'-HxCB	1.13	1.04	1.12	1.13	1.10	1.04	3.9	1.09	0.04	-5.0%
PCB-188 22'3'4'5'6'6'-HpCB	1.08	1.07	1.18	1.03	1.06	0.97	6.3	1.06	0.07	-8.9%
PCB-179 22'3'3'5'6'6'-HpCB	0.99	0.98	1.08	0.99	0.95	0.89	6.1	0.98	0.06	-8.7%
PCB-184 22'3'4'4'6'6'-HpCB	0.99	0.97	1.03	0.96	0.93	0.87	5.8	0.96	0.06	-9.2%
PCB-176 22'3'3'4'6'6'-HpCB	1.08	1.06	1.14	1.07	1.03	0.97	5.3	1.06	0.06	-8.7%
PCB-186 22'3'4'5'6'6'-HpCB	1.01	1.02	1.08	1.02	0.99	0.93	4.7	1.01	0.05	-7.5%
PCB-178 22'3'3'5'5'6'-HpCB	0.79	0.77	0.82	0.74	0.70	0.67	7.3	0.75	0.05	-10.0%
PCB-175 22'3'3'4'5'6'-HpCB	0.93	0.89	1.05	0.94	1.02	0.97	5.9	0.97	0.06	0.7%
PCB-187 22'3'4'5'5'6'-HpCB	1.02	0.94	1.10	0.98	1.03	1.02	5.3	1.01	0.05	0.6%
PCB-182 22'3'4'4'5'6'-HpCB	1.04	0.95	1.12	1.01	1.06	1.05	5.4	1.04	0.06	1.2%
PCB-183 22'3'4'4'5'6'-HpCB	1.01	0.96	1.14	1.00	1.14	1.07	7.3	1.05	0.08	1.3%
PCB-185 22'3'4'5'5'6'-HpCB	0.97	0.93	1.07	0.98	0.93	0.96	5.3	0.97	0.05	-1.6%
PCB-174 22'3'3'4'5'6'-HpCB	0.86	0.80	0.96	0.86	0.90	0.86	6.1	0.87	0.05	-1.9%
PCB-177 22'3'3'4'5'6'-HpCB	0.85	0.82	0.93	0.84	0.89	0.83	5.0	0.86	0.04	-3.1%
PCB-181 22'3'4'4'5'6'-HpCB	1.02	0.91	1.09	0.97	1.01	1.00	5.7	1.00	0.06	-0.3%
PCB-171/173 22'3'3'4'4'6'-/22'3	0.87	0.81	0.96	0.87	0.88	0.86	5.6	0.88	0.05	-1.5%
PCB-172 22'3'3'4'5'5'-HpCB	0.87	0.83	0.96	0.88	0.90	0.87	5.1	0.89	0.04	-1.6%
PCB-192 23'3'4'5'5'6'-HpCB	1.13	1.09	1.22	1.12	1.15	1.19	4.2	1.15	0.05	3.3%
PCB-180/193 22'3'4'4'5'5'-/23'3'	1.08	1.01	1.17	1.06	1.08	1.11	4.8	1.09	0.05	2.2%
PCB-191 23'3'4'4'5'6'-HpCB	1.14	1.13	1.30	1.13	1.19	1.23	5.8	1.19	0.07	3.9%
PCB-170 22'3'3'4'4'5'-HpCB	0.97	1.00	1.11	0.99	1.01	1.01	4.7	1.01	0.05	-0.6%
PCB-190 23'3'4'4'5'6'-HpCB	1.37	1.35	1.44	1.35	1.37	1.42	2.7	1.38	0.04	2.4%
PCB-202 22'3'3'5'5'6'6'-OcCB	0.91	0.83	0.87	0.84	0.81	0.83	4.4	0.85	0.04	-2.2%
PCB-201 22'3'3'4'5'6'6'-OcCB	1.00	0.93	0.95	0.92	0.92	0.94	3.3	0.94	0.03	-0.1%

PCB-204 22'344'566'-OxCB	0.94	0.89	0.92	0.87	0.85	0.87	3.9	0.89	0.03	-2.3%
PCB-197 22'33'44'66'-OxCB	1.03	0.91	1.01	1.01	0.86	0.97	6.9	0.97	0.07	0.7%
PCB-200 22'33'4566'-OxCB	0.92	0.93	0.93	0.84	0.99	0.89	5.4	0.92	0.05	-3.1%
PCB-198/199 22'33'455'6-/22'	0.69	0.68	0.67	0.68	0.65	0.66	2.3	0.67	0.02	-2.5%
PCB-196 22'33'44'56'-OxCB	0.74	0.72	0.70	0.70	0.69	0.70	2.4	0.71	0.02	-0.4%
PCB-203 22'344'55'6'-OxCB	0.75	0.74	0.76	0.74	0.69	0.74	3.0	0.73	0.02	0.3%
PCB-195 22'33'44'56'-OxCB	0.84	0.81	0.85	0.88	0.84	0.78	4.3	0.83	0.04	-6.5%
PCB-194 22'33'44'55'-OxCB	0.96	0.86	0.91	0.94	0.90	0.85	5.0	0.90	0.05	-6.2%
PCB-205 233'44'55'6'-OxCB	1.18	1.09	1.16	1.17	1.12	1.08	3.6	1.13	0.04	-4.6%
PCB-208 22'33'455'66'-NoCB	0.91	0.98	1.02	1.00	0.97	0.99	3.8	0.98	0.04	1.4%
PCB-207 22'33'44'566'-NoCB	0.97	1.02	1.05	1.04	1.03	1.03	2.9	1.02	0.03	0.5%
PCB-206 22'33'44'55'6'-NoCB	0.95	0.93	0.97	0.97	0.94	0.83	5.6	0.93	0.05	-10.9%

SGS Analytical Perspectives — Run Log

Project: MM4_PCB_07122013_11SEP2013

Instrument: MM4 (AutoSpec-Ultima)

MS Experiment: pcb-2011-08

GC Program: pcb90_FI

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
2	130911S02	12	SBS_130911_PCB_SA	1.00	SIL9-41-1	CTW	704-051	11-Sep-2013	12:36:54
3	130911S03	50	CS0_130911_PCB_SB	1.00	SIL 13-40-6	CTW	322-539	11-Sep-2013	13:30:11
4	130911S04	51	CS1_130911_PCB_SB	1.00	SIL 13-40-5	CTW	859-146	11-Sep-2013	14:36:37
5	130911S05	52	CS2_130911_PCB_SB	1.00	SIL 13-40-4	CTW	066-105	11-Sep-2013	15:46:45
6	130911S06	53	CS3_130911_PCB_SB	1.00	SIL 13-40-3	CTW	120-339	11-Sep-2013	16:57:30
7	130911S07	54	CS4_130911_PCB_SB	1.00	SIL 13-40-2	CTW	211-287	11-Sep-2013	17:50:46
8	130911S08	55	CS5_130911_PCB_SB	1.00	SIL 13-40-1	CTW	130-367	11-Sep-2013	18:46:59

APPROVED*By Jeremy Kadylak at 3:34 pm, Sep 25, 2013*

PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:35		
Lab ID:	CS0_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 13:30						
Datafile:	130911S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	29.41	3.51E+05	0.82 Y	1.51	1.48	-2.4%	
PCB-81 344'5'-TeCB	28.93	2.95E+05	0.81 Y	1.27	1.11	-12.3%	
PCB-105 233'44'-PeCB	32.36	1.99E+05	0.69 Y	1.00	0.92	-7.8%	
PCB-114 2344'5'-PeCB	31.81	2.20E+05	0.66 Y	1.06	1.00	-5.4%	
PCB-118 23'44'5'-PeCB	31.37	2.03E+05	0.65 Y	1.01	0.93	-7.7%	
PCB-123 23'44'5'-PeCB	31.09	2.22E+05	0.65 Y	1.06	1.06	0.4%	
PCB-126 33'44'5'-PeCB	34.96	2.95E+05	0.61 Y	1.26	1.26	0.3%	
PCB-156/157 ...-HxCB	37.50	3.70E+05	1.32 Y	1.06	0.98	-8.3%	
PCB-167 23'44'55'-HxCB	36.53	2.17E+05	1.30 Y	1.12	1.10	-1.2%	
PCB-169 33'44'55'-HxCB	40.21	2.00E+05	1.15 Y	1.09	1.07	-1.5%	
PCB-189 233'44'55'-HpCB	42.34	2.43E+05	0.98 Y	1.15	1.09	-5.5%	
PCB-209 DeCB	47.31	1.53E+05	1.30 Y	1.03	1.02	-1.5%	
ES PCB-1	9.93	7.76E+07	3.19 Y	1.04	1.02	-2.1%	
ES PCB-3	11.86	7.45E+07	3.26 Y	0.99	0.98	-1.1%	
ES PCB-4	12.08	5.51E+07	1.58 Y	0.71	0.72	1.9%	
ES PCB-15	17.20	8.20E+07	1.61 Y	1.09	1.08	-1.1%	
ES PCB-19	14.79	4.57E+07	1.04 Y	0.59	0.60	1.7%	
ES PCB-37	23.20	5.87E+07	1.08 Y	1.32	1.25	-4.9%	
ES PCB-54	17.45	6.50E+07	0.76 Y	1.35	1.39	2.8%	
ES PCB-77	29.39	4.76E+07	0.81 Y	1.07	1.02	-4.7%	
ES PCB-81	28.92	5.29E+07	0.81 Y	1.19	1.13	-5.0%	
ES PCB-104	22.15	6.07E+07	1.55 Y	1.62	1.80	11.2%	
ES PCB-105	32.34	4.33E+07	1.55 Y	1.30	1.29	-1.3%	
ES PCB-114	31.79	4.39E+07	1.56 Y	1.32	1.30	-1.2%	
ES PCB-118	31.35	4.35E+07	1.56 Y	1.30	1.29	-1.0%	
ES PCB-123	31.07	4.17E+07	1.57 Y	1.26	1.24	-1.9%	
ES PCB-126	34.94	4.66E+07	1.61 Y	1.41	1.38	-1.7%	
ES PCB-153	32.93	3.89E+07	1.25 Y	1.15	1.14	-1.5%	
ES PCB-155	26.97	5.24E+07	1.25 Y	1.53	1.53	-0.1%	
ES PCB-156/157	37.48	7.58E+07	1.25 Y	1.19	1.11	-6.6%	
ES PCB-167	36.51	3.92E+07	1.25 Y	1.22	1.15	-6.3%	
ES PCB-169	40.20	3.74E+07	1.26 Y	1.18	1.09	-7.7%	
ES PCB-170	39.70	3.04E+07	1.04 Y	1.22	1.22	0.0%	
ES PCB-180	38.64	3.49E+07	1.05 Y	1.41	1.40	-0.4%	
ES PCB-188	31.79	5.94E+07	1.06 Y	1.71	1.74	1.7%	
ES PCB-189	42.32	4.47E+07	1.04 Y	1.84	1.80	-2.4%	
ES PCB-202	36.31	4.84E+07	0.88 Y	1.42	1.41	-0.2%	
ES PCB-205	44.48	3.04E+07	0.90 Y	1.25	1.22	-2.6%	
ES PCB-206	45.94	3.03E+07	0.79 Y	1.24	1.22	-1.6%	
ES PCB-208	41.92	3.52E+07	0.78 Y	1.42	1.41	-0.5%	
ES PCB-209	47.29	3.01E+07	1.16 Y	1.23	1.21	-1.9%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:35		
Lab ID:	CS0_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 13:30						
Datafile:	130911S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	19.79	6.15E+07	1.07 Y	1.06	1.05	-1.3%	
SS PCB-111	29.43	4.54E+07	1.57 Y	1.06	1.09	2.6%	
SS PCB-178	34.36	3.44E+07	1.06 Y	0.58	0.58	-0.6%	
CS PCB-28	19.79	6.15E+07	1.07 Y	1.40	1.32	-6.1%	
CS PCB-111	29.43	4.54E+07	1.57 Y	1.34	1.35	0.7%	
CS PCB-178	34.36	3.44E+07	1.06 Y	0.99	1.01	1.1%	
JS PCB-9	13.82	7.61E+07	1.65 Y	-	-	-	
JS PCB-52	21.35	4.68E+07	0.77 Y	-	-	-	
JS PCB-101	27.16	3.37E+07	1.56 Y	-	-	-	
JS PCB-138	33.97	3.42E+07	1.24 Y	-	-	-	
JS PCB-194	44.09	2.49E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	9.94	4.46E+05	3.13 Y	1.20	1.15	-3.8%	
PCB-3 4-MoCB	11.88	4.30E+05	3.14 Y	1.24	1.16	-6.7%	
PCB-4 22'-DiCB	12.09	2.62E+05	0.00 S	0.97	0.95	-2.1%	
PCB-15 44'-DiCB	17.22	4.94E+05	0.00 S	1.23	1.21	-1.9%	
PCB-19 22'6'-TrCB	14.81	2.06E+05	1.02 Y	0.97	0.90	-7.0%	
PCB-37 344'-TrCB	23.21	3.30E+05	1.04 Y	1.28	1.13	-12.3%	
PCB-54 22'66'-TeCB	17.47	3.01E+05	0.76 Y	1.00	0.93	-7.3%	
PCB-104 22'466'-PeCB	22.17	2.95E+05	0.58 Y	1.06	0.97	-8.1%	
PCB-153/168 ...-HxCB	32.97	4.60E+05	1.14 Y	1.26	1.18	-5.9%	
PCB-155 22'44'66'-HxCB	26.99	2.67E+05	1.19 Y	1.12	1.02	-9.3%	
PCB-170 22'33'44'5'-HpCB	39.72	1.41E+05	1.06 Y	1.01	0.93	-7.6%	
PCB-180/193 ...-HpCB	38.64	3.72E+05	0.93 Y	1.11	1.06	-4.3%	
PCB-188 22'34'566'-HpCB	31.81	2.68E+05	1.03 Y	0.97	0.90	-7.0%	
PCB-202 22'33'55'66'-OcCB	36.33	1.76E+05	0.90 Y	0.83	0.73	-12.5%	
PCB-205 233'44'55'6'-OcCB	44.50	1.63E+05	1.01 Y	1.08	1.07	-0.8%	
PCB-208 22'33'455'66'-NoCB	41.94	1.78E+05	0.75 Y	0.99	1.01	2.0%	
PCB-206 22'33'44'55'6'-NoCB	45.96	1.23E+05	0.84 Y	0.83	0.81	-2.4%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:35			
Lab ID:	CS0_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 13:30						
Datafile:	130911S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	9.94	4.46E+05	3.13 Y	1.20	1.15	-3.8%	
PCB-2 3-MoCB	11.72	4.35E+05	3.25 Y	1.25	1.17	-6.2%	
PCB-3 4-MoCB	11.88	4.30E+05	3.14 Y	1.24	1.16	-6.7%	
PCB-4 22'-DiCB	12.09	2.62E+05	0.00 S	0.97	0.95	-2.1%	
PCB-10 26'-DiCB	12.25	4.08E+05	0.00 S	1.51	1.48	-1.8%	
PCB-9 25'-DiCB	13.83	4.27E+05	0.00 S	1.06	1.04	-1.7%	
PCB-7 24'-DiCB	13.97	5.19E+05	0.00 S	1.23	1.27	2.8%	
PCB-6 23'-DiCB	14.18	4.67E+05	0.00 S	1.14	1.14	0.2%	
PCB-5 23'-DiCB	14.45	4.31E+05	0.00 S	1.15	1.05	-8.5%	
PCB-8 24'-DiCB	14.56	4.42E+05	0.00 S	1.18	1.08	-8.3%	
PCB-14 35'-DiCB	15.96	4.60E+05	0.00 S	1.31	1.12	-14.4%	
PCB-11 33'-DiCB	16.68	4.88E+05	0.00 S	1.17	1.19	1.8%	
PCB-13/12 34'/34'-DiCB	16.95	8.97E+05	0.00 S	1.17	1.09	-6.1%	
PCB-15 44'-DiCB	17.22	4.94E+05	0.00 S	1.23	1.21	-1.9%	
PCB-19 22'6'-TrCB	14.81	2.06E+05	1.02 Y	0.97	0.90	-7.0%	
PCB-30/18 246'/22'5'-TrCB	16.41	4.98E+05	0.98 Y	1.23	1.09	-11.8%	
PCB-17 22'4'-TrCB	16.78	2.10E+05	1.03 Y	1.06	0.92	-13.0%	
PCB-27 23'6'-TrCB	16.97	2.91E+05	1.02 Y	1.44	1.27	-11.7%	
PCB-24 236'-TrCB	17.08	2.77E+05	0.97 Y	1.37	1.21	-11.3%	
PCB-16 22'3'-TrCB	17.17	1.60E+05	1.08 Y	0.80	0.70	-12.9%	
PCB-32 24'6'-TrCB	17.61	3.53E+05	1.05 Y	1.59	1.54	-2.9%	
PCB-34 23'5'-TrCB	18.70	3.51E+05	1.10 Y	1.26	1.20	-5.3%	
PCB-23 235'-TrCB	18.83	3.53E+05	1.06 Y	1.31	1.20	-8.1%	
PCB-26/29 23'5'/245'-TrCB	19.10	7.37E+05	1.12 Y	1.33	1.26	-5.8%	
PCB-25 23'4'-TrCB	19.29	3.53E+05	1.02 Y	1.33	1.20	-9.5%	
PCB-31 24'5'-TrCB	19.56	3.79E+05	1.10 Y	1.39	1.29	-6.8%	
PCB-28/20 244'/233'-TrCB	19.82	6.88E+05	1.07 Y	1.30	1.17	-9.8%	
PCB-21/33 234'/23'4'-TrCB	19.99	7.10E+05	1.04 Y	1.34	1.21	-9.8%	
PCB-22 234'-TrCB	20.35	3.11E+05	1.01 Y	1.22	1.06	-12.9%	
PCB-36 33'5'-TrCB	21.68	3.57E+05	1.04 Y	1.35	1.22	-9.7%	
PCB-39 34'5'-TrCB	21.98	3.72E+05	1.11 Y	1.40	1.27	-9.3%	
PCB-38 345'-TrCB	22.47	3.17E+05	1.22 N	1.25	1.08	-13.5%	
PCB-35 33'4'-TrCB	22.87	3.34E+05	1.02 Y	1.23	1.14	-7.5%	
PCB-37 344'-TrCB	23.21	3.30E+05	1.04 Y	1.28	1.13	-12.3%	
PCB-54 22'66'-TeCB	17.47	3.01E+05	0.76 Y	1.00	0.93	-7.3%	
PCB-50/53 22'46'/22'56'-TeCB	19.33	4.09E+05	0.78 Y	0.82	0.77	-5.4%	
PCB-45 22'36'-TeCB	19.89	1.83E+05	0.81 Y	0.73	0.69	-5.2%	
PCB-51 22'46'-TeCB	19.96	1.83E+05	0.77 Y	0.79	0.69	-13.0%	
PCB-46 22'36'-TeCB	20.16	1.64E+05	0.85 Y	0.66	0.62	-6.1%	
PCB-52 22'55'-TeCB	21.37	1.97E+05	0.81 Y	0.79	0.74	-5.9%	
PCB-73 23'5'6'-TeCB	21.49	2.55E+05	0.78 Y	1.06	0.97	-8.9%	
PCB-43 22'35'-TeCB	21.57	1.73E+05	0.68 Y	0.64	0.65	2.1%	
PCB-69/49 23'46'/22'45'-TeCB	21.76	4.67E+05	0.86 Y	0.95	0.88	-6.9%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:35			
Lab ID:	CS0_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 13:30						
Datafile:	130911S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.02	1.95E+05	0.77 Y	0.79	0.74	-6.4%	
PCB-44/47/65 ...-TeCB	22.23	6.09E+05	0.72 Y	0.84	0.77	-8.7%	
PCB-59/62/75 ...-TeCB	22.49	7.86E+05	0.74 Y	1.07	0.99	-7.7%	
PCB-42 22'34'-TeCB	22.65	1.81E+05	0.75 Y	0.72	0.68	-5.0%	
PCB-41 22'34'-TeCB	22.98	1.56E+05	0.76 Y	0.66	0.59	-10.3%	
PCB-71/40 23'4'6/22'33'-TeCB	23.08	3.92E+05	0.73 Y	0.79	0.74	-6.8%	
PCB-64 23'4'6'-TeCB	23.27	2.91E+05	0.80 Y	1.13	1.10	-3.1%	
PCB-72 23'55'-TeCB	23.98	3.25E+05	0.80 Y	1.31	1.23	-6.1%	
PCB-68 23'45'-TeCB	24.23	3.72E+05	0.73 Y	1.43	1.41	-1.5%	
PCB-57 23'3'5'-TeCB	24.58	3.06E+05	0.81 Y	1.26	1.16	-8.1%	
PCB-58 23'3'5'-TeCB	24.78	3.10E+05	0.82 Y	1.30	1.17	-10.1%	
PCB-67 23'45'-TeCB	24.93	3.31E+05	0.73 Y	1.35	1.25	-7.0%	
PCB-63 23'4'5'-TeCB	25.15	3.37E+05	0.72 Y	1.42	1.27	-10.3%	
PCB-61/70/74/76 ...-TeCB	25.43	1.29E+06	0.82 Y	1.32	1.22	-7.7%	
PCB-66 23'44'-TeCB	25.71	3.16E+05	0.71 Y	1.26	1.20	-5.3%	
PCB-55 23'3'4'-TeCB	25.85	2.94E+05	0.71 Y	1.24	1.11	-10.1%	
PCB-56 23'3'4'-TeCB	26.27	3.02E+05	0.81 Y	1.22	1.14	-6.8%	
PCB-60 23'44'-TeCB	26.46	3.13E+05	0.83 Y	1.29	1.18	-8.0%	
PCB-80 33'55'-TeCB	26.81	3.26E+05	0.89 Y	1.42	1.23	-13.0%	
PCB-79 33'4'5'-TeCB	28.10	3.59E+05	0.85 Y	1.47	1.36	-7.5%	
PCB-78 33'4'5'-TeCB	28.56	3.08E+05	0.84 Y	1.23	1.17	-5.6%	
PCB-104 22'466'-PeCB	22.17	2.95E+05	0.58 Y	1.06	0.97	-8.1%	
PCB-96 22'366'-PeCB	22.48	2.40E+05	0.68 Y	0.90	0.79	-12.2%	
PCB-103 22'45'6'-PeCB	24.13	1.71E+05	0.67 Y	0.84	0.82	-2.1%	
PCB-94 22'356'-PeCB	24.32	1.48E+05	0.60 Y	0.73	0.71	-2.8%	
PCB-95 22'35'6'-PeCB	24.69	1.53E+05	0.58 Y	0.78	0.73	-5.9%	
PCB-100/93 22'44'6/22'356'-PeCB	24.88	3.06E+05	0.65 Y	0.77	0.73	-5.3%	
PCB-102 22'456'-PeCB	25.00	1.63E+05	0.56 Y	0.83	0.78	-5.9%	
PCB-98 22'34'6'-PeCB	25.06	1.48E+05	0.62 Y	0.75	0.71	-5.3%	
PCB-88 22'346'-PeCB	25.34	1.50E+05	0.58 Y	0.74	0.72	-3.0%	
PCB-91 22'34'6'-PeCB	25.42	1.63E+05	0.61 Y	0.83	0.78	-5.7%	
PCB-84 22'33'6'-PeCB	25.61	1.38E+05	0.63 Y	0.66	0.66	0.0%	
PCB-89 22'346'-PeCB	26.01	1.31E+05	0.73 N	0.69	0.63	-9.5%	
PCB-121 23'45'6'-PeCB	26.37	2.11E+05	0.57 Y	1.06	1.01	-4.6%	
PCB-92 22'355'-PeCB	26.69	1.32E+05	0.62 Y	0.73	0.63	-13.0%	
PCB-113/90/101 ...-PeCB	27.16	4.96E+05	0.60 Y	0.85	0.79	-7.0%	
PCB-83 22'33'5'-PeCB	27.58	1.39E+05	0.62 Y	0.65	0.67	3.5%	
PCB-99 22'44'5'-PeCB	27.67	1.67E+05	0.68 Y	0.84	0.80	-5.0%	
PCB-112 23'3'56'-PeCB	27.77	1.90E+05	0.69 Y	1.00	0.91	-8.9%	
PCB-109/119/86/97/125...-PeCB	28.11	1.02E+06	0.63 Y	0.87	0.82	-6.3%	
PCB-117 23'4'56'-PeCB	28.62	1.47E+05	0.66 Y	0.88	0.70	-19.8%	
PCB-116/85 23'456/22'344'-PeCB	28.69	3.75E+05	0.64 Y	0.91	0.90	-1.6%	
PCB-110 23'3'4'6'-PeCB	28.84	1.90E+05	0.62 Y	0.99	0.91	-7.8%	

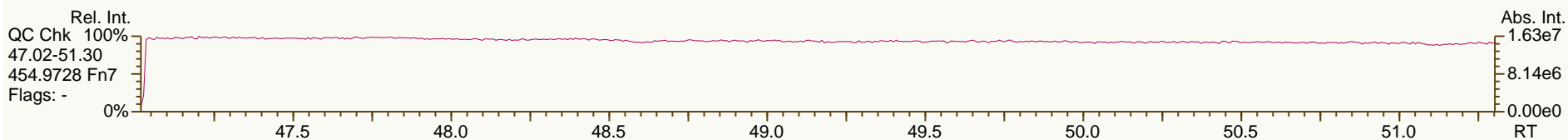
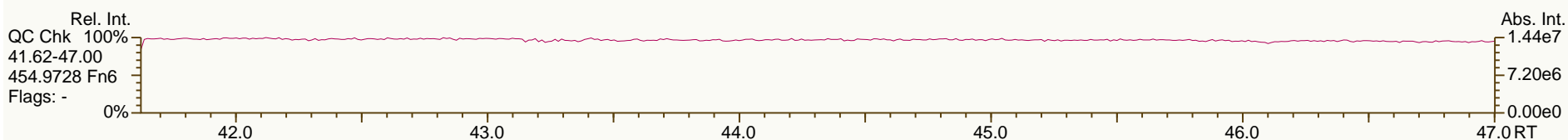
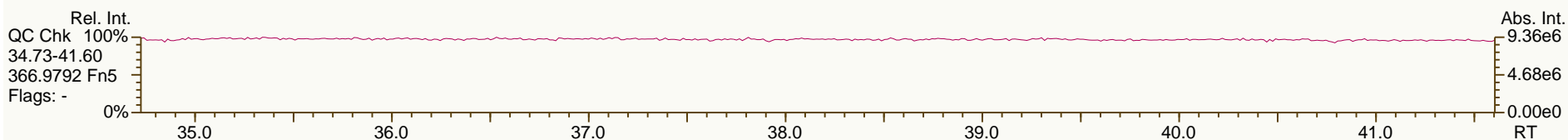
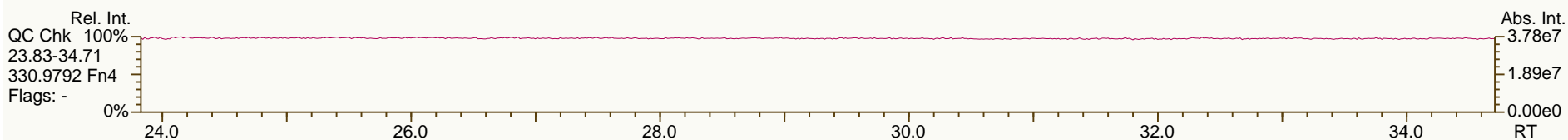
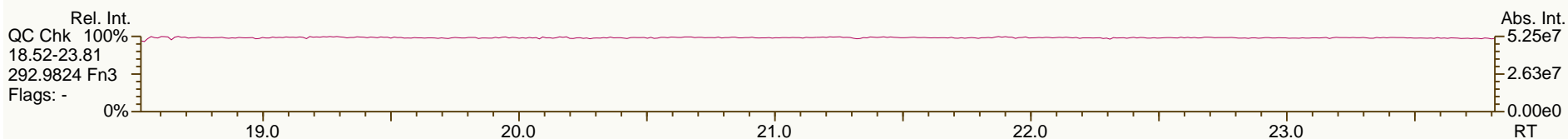
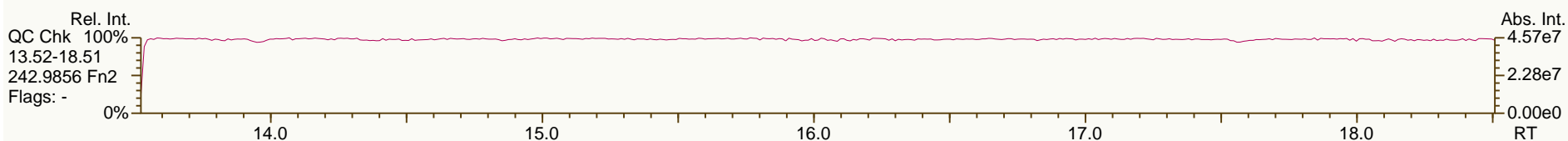
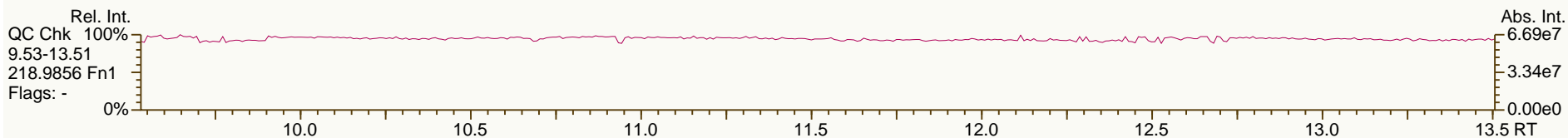
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Lab ID:	CS0_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 13:30						
Datafile:	130911S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	28.91	2.01E+05	0.60 Y	1.01	0.96	-4.8%	
PCB-82 22'33'4-PeCB	29.11	1.20E+05	0.66 Y	0.62	0.58	-7.8%	
PCB-111 233'55'-PeCB	29.45	2.13E+05	0.66 Y	1.07	1.02	-4.4%	
PCB-120 23'455'-PeCB	29.84	2.20E+05	0.64 Y	1.07	1.05	-1.9%	
PCB-108/124 ...-PeCB	30.79	3.81E+05	0.57 Y	0.98	0.91	-7.1%	
PCB-107 233'4'5-PeCB	30.99	1.79E+05	0.61 Y	1.07	0.86	-19.5%	
PCB-106 233'45-PeCB	31.19	2.01E+05	0.68 Y	1.00	0.96	-3.7%	
PCB-122 233'4'5'-PeCB	31.66	1.78E+05	0.62 Y	0.89	0.81	-8.7%	
PCB-127 33'455'-PeCB	33.61	1.90E+05	0.61 Y	0.98	0.88	-10.6%	
PCB-155 22'44'66'-HxCB	26.99	2.67E+05	1.19 Y	1.12	1.02	-9.3%	
PCB-152 22'3566'-HxCB	27.15	2.54E+05	1.31 Y	1.05	0.97	-7.9%	
PCB-150 22'34'66'-HxCB	27.29	2.74E+05	1.39 Y	1.07	1.04	-2.1%	
PCB-136 22'33'66'-HxCB	27.59	2.48E+05	1.22 Y	0.99	0.94	-4.6%	
PCB-145 22'3466'-HxCB	27.85	2.46E+05	1.18 Y	1.00	0.94	-5.6%	
PCB-148 22'34'56'-HxCB	29.13	1.85E+05	1.25 Y	1.03	0.95	-7.5%	
PCB-151/135 ...-HxCB	29.64	3.85E+05	1.19 Y	1.00	0.99	-0.8%	
PCB-154 22'44'56'-HxCB	29.84	2.08E+05	1.28 Y	1.13	1.07	-5.1%	
PCB-144 22'345'6'-HxCB	30.10	2.04E+05	1.31 Y	1.03	1.05	1.8%	
PCB-147/149 ...-HxCB	30.40	4.00E+05	1.29 Y	1.03	1.03	0.3%	
PCB-134 22'33'56'-HxCB	30.57	1.57E+05	1.31 Y	0.84	0.81	-3.3%	
PCB-143 22'3456'-HxCB	30.65	1.60E+05	1.08 Y	0.95	0.83	-12.9%	
PCB-139/140 ...-HxCB	30.91	3.93E+05	1.17 Y	1.05	1.01	-3.6%	
PCB-131 22'33'46'-HxCB	31.08	1.51E+05	1.05 N	0.87	0.78	-11.3%	
PCB-142 22'3456'-HxCB	31.20	1.71E+05	1.21 Y	0.91	0.88	-3.3%	
PCB-132 22'33'46'-HxCB	31.46	1.76E+05	1.11 Y	0.92	0.90	-1.6%	
PCB-133 22'33'55'-HxCB	31.89	1.88E+05	1.18 Y	0.97	0.97	0.3%	
PCB-165 233'55'6'-HxCB	32.23	2.25E+05	1.11 Y	1.19	1.16	-3.3%	
PCB-146 22'34'55'-HxCB	32.43	2.07E+05	1.19 Y	1.08	1.06	-1.9%	
PCB-161 233'45'6'-HxCB	32.55	2.40E+05	1.34 Y	1.34	1.24	-8.0%	
PCB-153/168 ...-HxCB	32.97	4.60E+05	1.14 Y	1.26	1.18	-5.9%	
PCB-141 22'3455'-HxCB	33.11	1.85E+05	1.15 Y	0.98	0.95	-3.1%	
PCB-130 22'33'45'-HxCB	33.45	1.59E+05	1.09 Y	0.88	0.82	-6.5%	
PCB-137 22'344'5'-HxCB	33.64	2.08E+05	1.22 Y	1.07	1.07	-0.1%	
PCB-164 233'4'5'6'-HxCB	33.74	2.31E+05	1.27 Y	1.29	1.19	-8.1%	
PCB-163/138/129 ...-HxCB	34.02	5.80E+05	1.25 Y	1.05	0.99	-5.0%	
PCB-160 233'456'-HxCB	34.13	2.22E+05	1.23 Y	1.26	1.14	-9.2%	
PCB-158 233'44'6'-HxCB	34.33	2.49E+05	1.22 Y	1.40	1.28	-8.4%	
PCB-128/166 ...-HxCB	35.04	3.34E+05	1.26 Y	0.89	0.85	-3.9%	
PCB-159 233'455'-HxCB	35.89	1.91E+05	1.18 Y	1.04	0.98	-6.3%	
PCB-162 233'4'55'-HxCB	36.13	2.01E+05	1.29 Y	1.04	1.02	-1.3%	
PCB-188 22'34'566'-HpCB	31.81	2.68E+05	1.03 Y	0.97	0.90	-7.0%	
PCB-179 22'33'566'-HpCB	32.10	2.50E+05	1.09 Y	0.89	0.84	-5.8%	
PCB-184 22'344'66'-HpCB	32.54	2.20E+05	1.01 Y	0.87	0.74	-15.2%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:35			
Lab ID:	CS0_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 13:30						
Datafile:	130911S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	32.84	2.76E+05	1.01 Y	0.97	0.93	-3.8%	
PCB-186 22'34566'-HpCB	33.22	2.64E+05	1.10 Y	0.93	0.89	-5.0%	
PCB-178 22'33'55'6'-HpCB	34.38	1.87E+05	0.99 Y	0.67	0.63	-6.4%	
PCB-175 22'33'45'6'-HpCB	34.91	1.62E+05	1.10 Y	0.97	0.93	-4.9%	
PCB-187 22'34'55'6'-HpCB	35.14	1.71E+05	0.99 Y	1.02	0.98	-3.9%	
PCB-182 22'344'56'-HpCB	35.31	1.88E+05	1.06 Y	1.05	1.07	2.3%	
PCB-183 22'344'5'6'-HpCB	35.66	1.93E+05	1.01 Y	1.07	1.10	3.4%	
PCB-185 22'3455'6'-HpCB	35.74	1.57E+05	1.13 Y	0.96	0.90	-6.3%	
PCB-174 22'33'456'-HpCB	35.86	1.29E+05	1.15 Y	0.86	0.74	-13.5%	
PCB-177 22'33'45'6'-HpCB	36.23	1.29E+05	1.02 Y	0.83	0.74	-11.1%	
PCB-181 22'344'56'-HpCB	36.55	1.65E+05	1.04 Y	1.00	0.94	-5.4%	
PCB-171/173 ...-HpCB	36.74	2.89E+05	1.13 Y	0.86	0.83	-4.2%	
PCB-172 22'33'455'-HpCB	38.12	1.40E+05	1.16 Y	0.87	0.80	-8.4%	
PCB-192 233'455'6'-HpCB	38.35	1.98E+05	1.07 Y	1.19	1.14	-4.3%	
PCB-180/193 ...-HpCB	38.64	3.72E+05	0.93 Y	1.11	1.06	-4.3%	
PCB-191 233'44'5'6'-HpCB	38.96	1.97E+05	1.09 Y	1.23	1.13	-8.4%	
PCB-170 22'33'44'5'-HpCB	39.72	1.41E+05	1.06 Y	1.01	0.93	-7.6%	
PCB-190 233'44'56'-HpCB	40.16	2.11E+05	1.12 Y	1.42	1.39	-1.8%	
PCB-202 22'33'55'66'-OcCB	36.33	1.76E+05	0.90 Y	0.83	0.73	-12.5%	
PCB-201 22'33'45'66'-OcCB	37.10	2.16E+05	0.85 Y	0.94	0.89	-5.4%	
PCB-204 22'344'566'-OcCB	37.67	1.93E+05	0.89 Y	0.87	0.80	-8.6%	
PCB-197 22'33'44'66'-OcCB	37.87	2.33E+05	0.98 Y	0.97	0.96	-1.2%	
PCB-200 22'33'4566'-OcCB	37.95	1.79E+05	0.83 Y	0.89	0.74	-16.7%	
PCB-198/199 ...-OcCB	40.29	2.98E+05	0.86 Y	0.66	0.62	-6.0%	
PCB-196 22'33'44'56'-OcCB	40.86	1.68E+05	0.80 Y	0.70	0.69	-1.3%	
PCB-203 22'344'55'6'-OcCB	41.03	1.77E+05	0.87 Y	0.74	0.73	-0.6%	
PCB-195 22'33'44'56'-OcCB	42.14	1.14E+05	1.02 Y	0.78	0.75	-3.7%	
PCB-194 22'33'44'55'-OcCB	44.10	1.26E+05	0.85 Y	0.85	0.83	-2.6%	
PCB-205 233'44'55'6'-OcCB	44.50	1.63E+05	1.01 Y	1.08	1.07	-0.8%	
PCB-208 22'33'455'66'-NoCB	41.94	1.78E+05	0.75 Y	0.99	1.01	2.0%	
PCB-207 22'33'44'566'-NoCB	42.72	1.79E+05	0.82 Y	1.03	1.02	-0.5%	
PCB-206 22'33'44'55'6'-NoCB	45.96	1.23E+05	0.84 Y	0.83	0.81	-2.4%	

SGS-AP ID: CS0_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

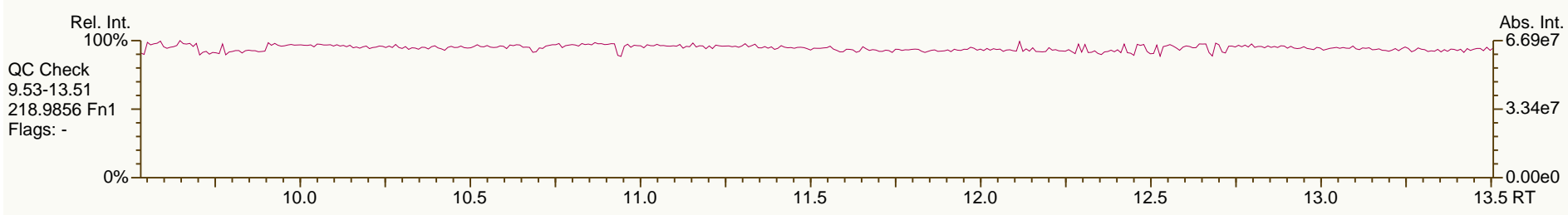
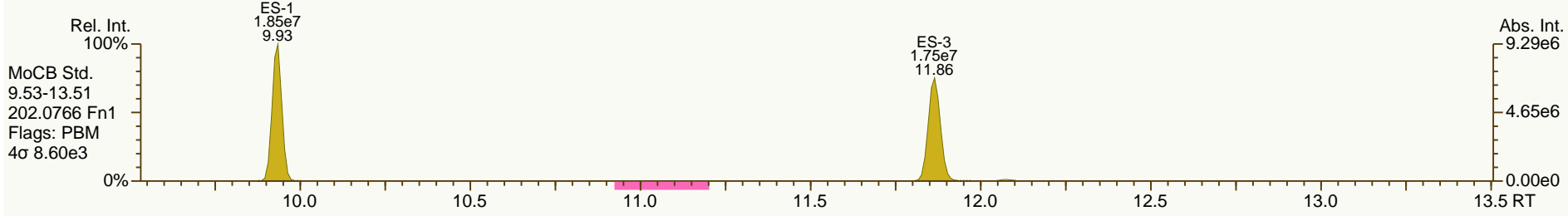
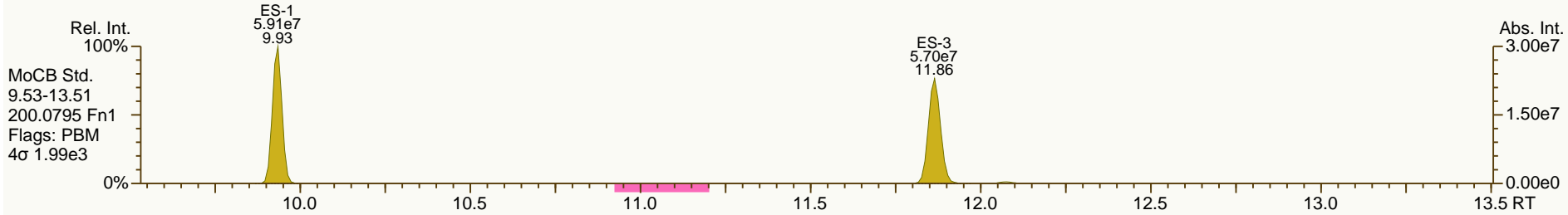
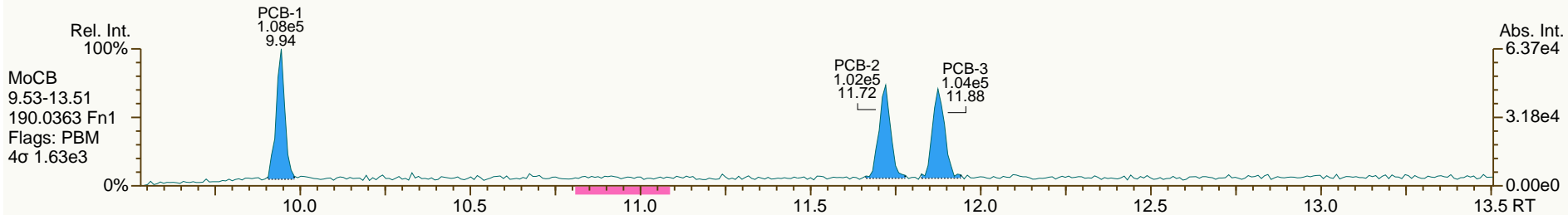
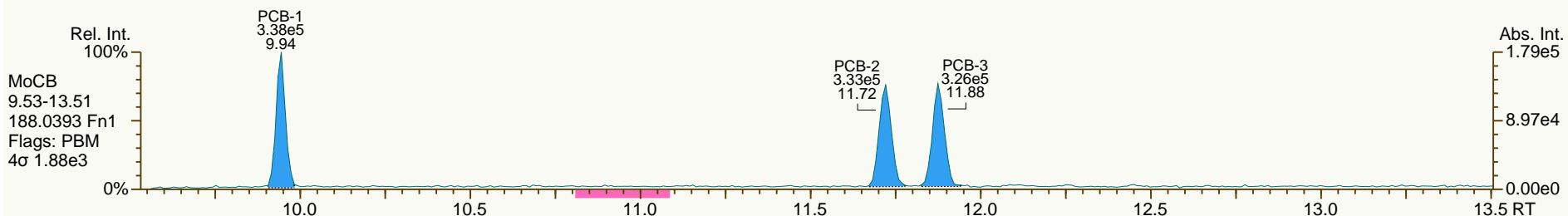
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

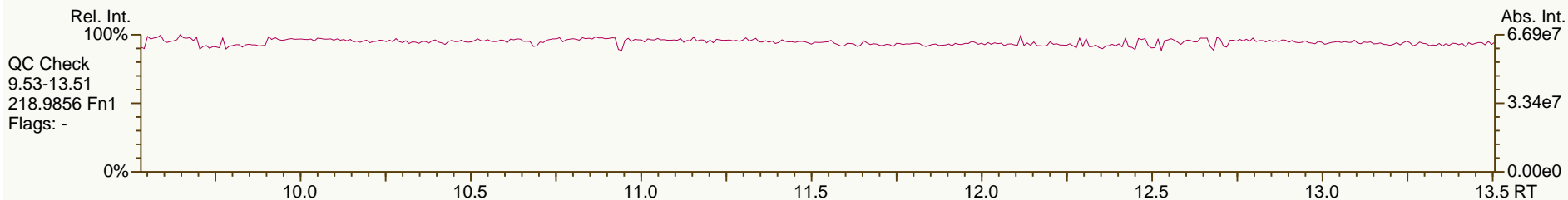
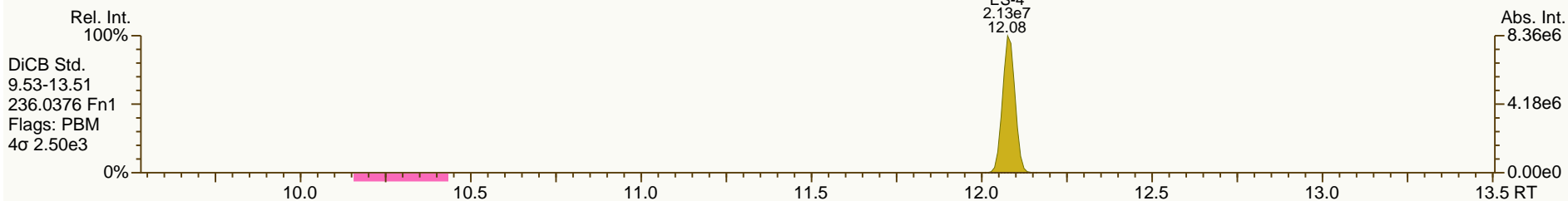
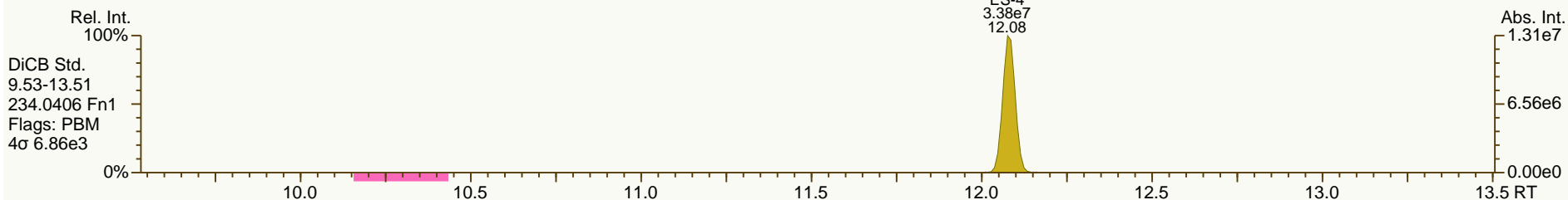
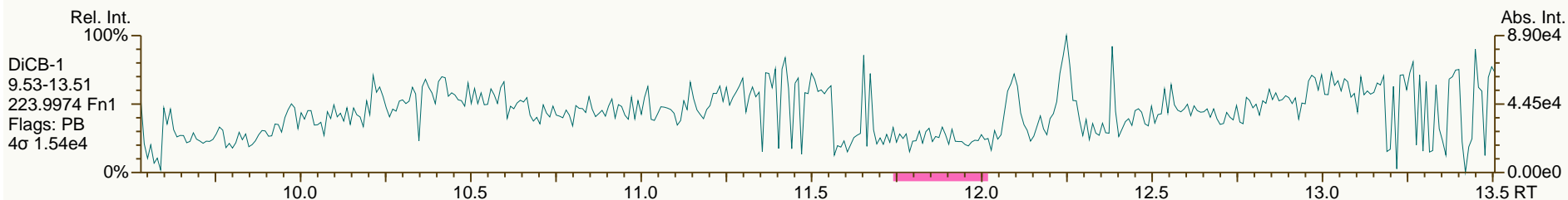
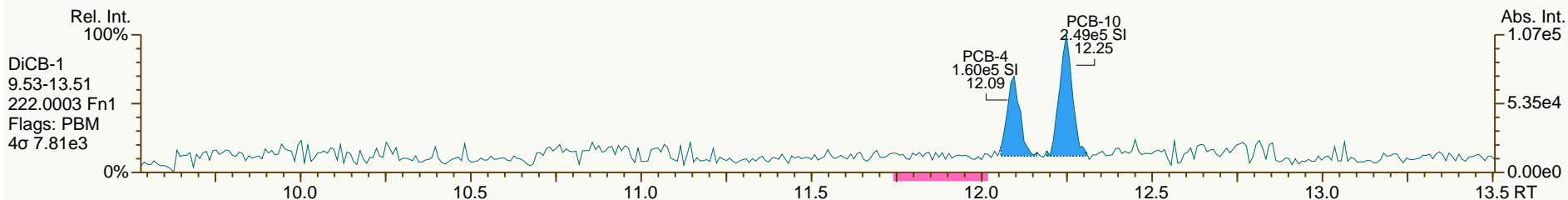
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

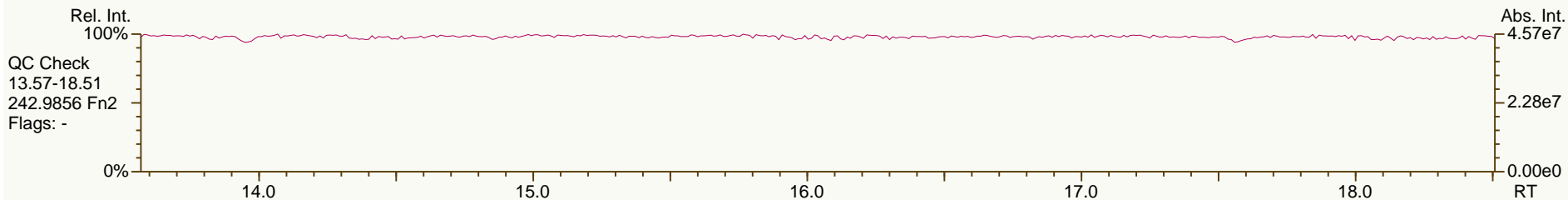
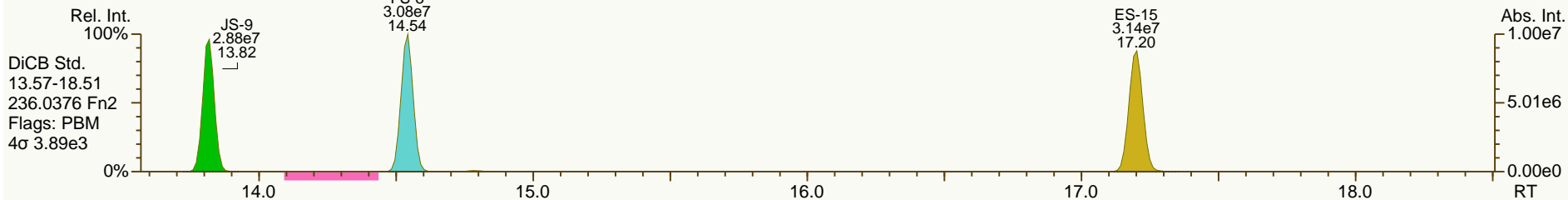
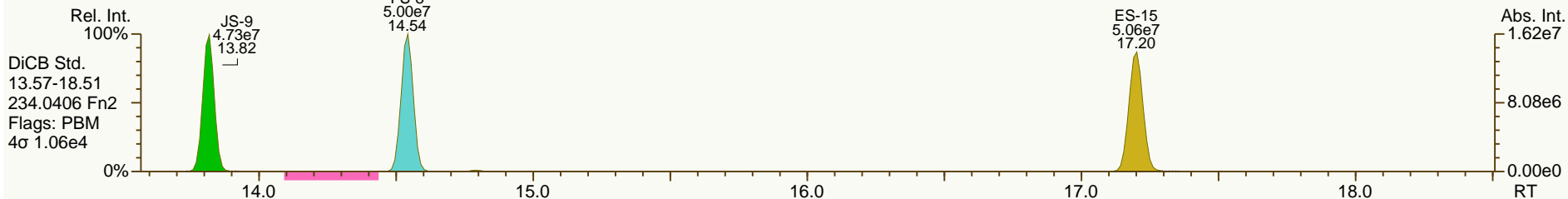
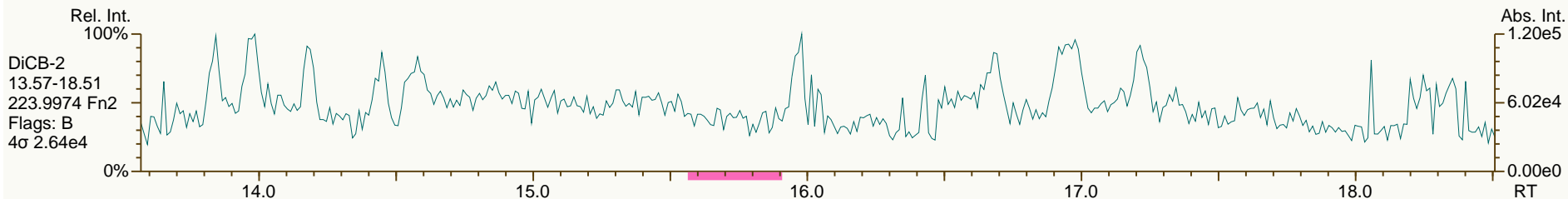
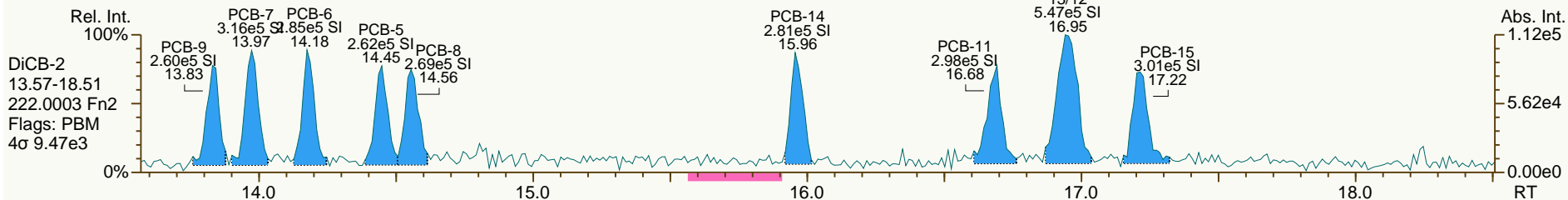
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

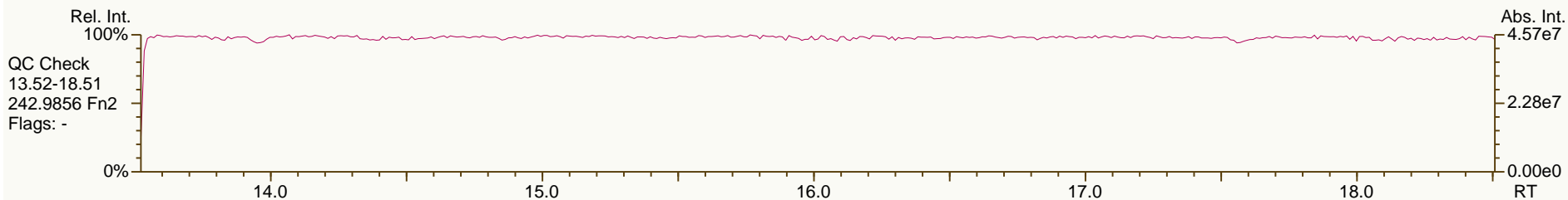
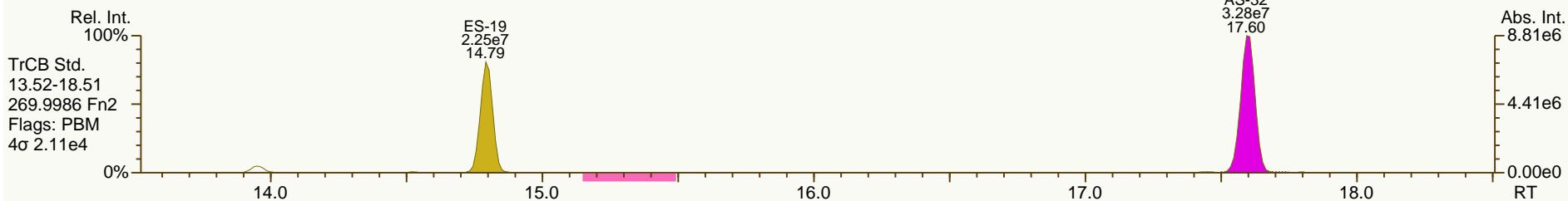
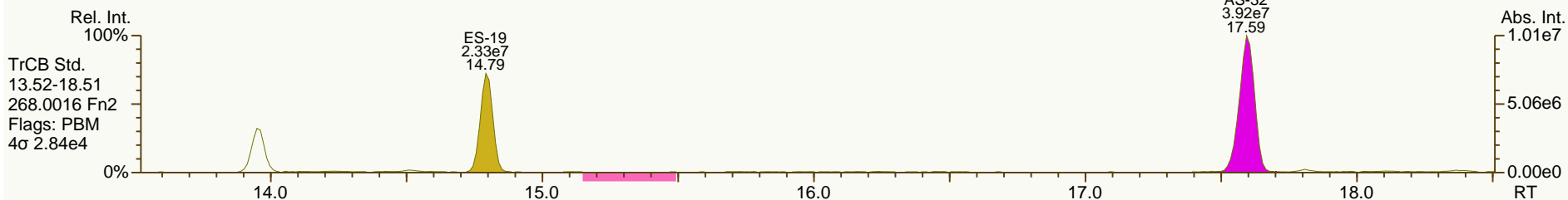
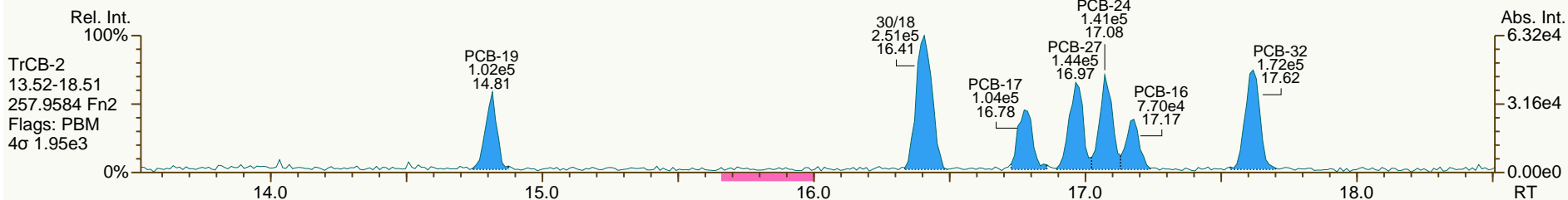
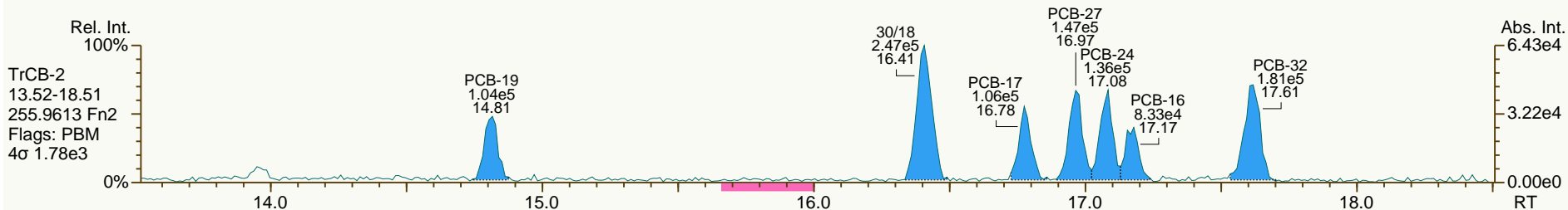
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

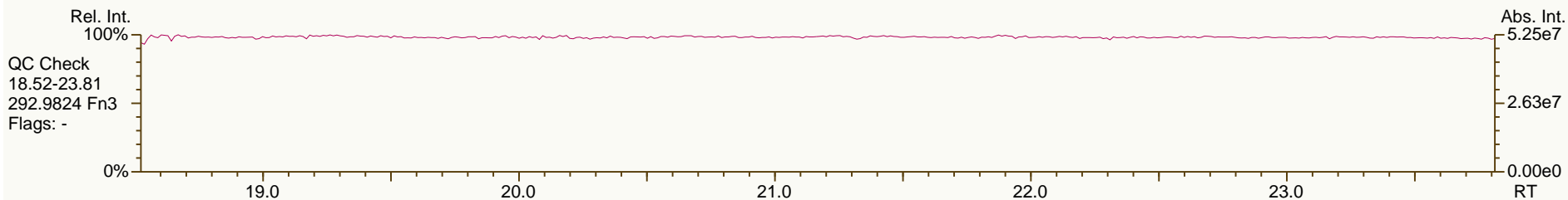
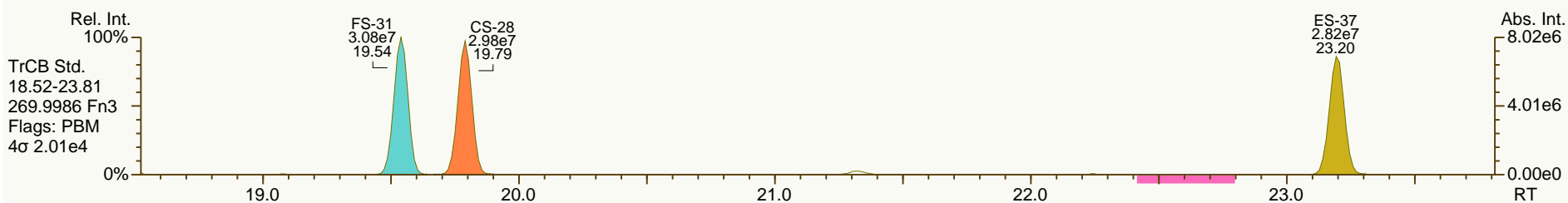
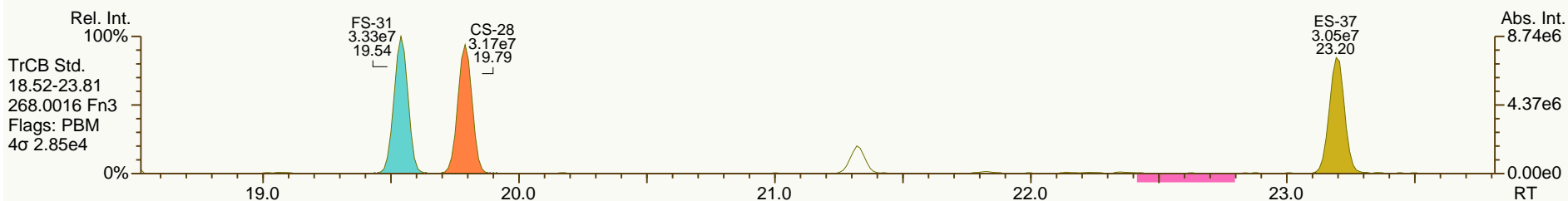
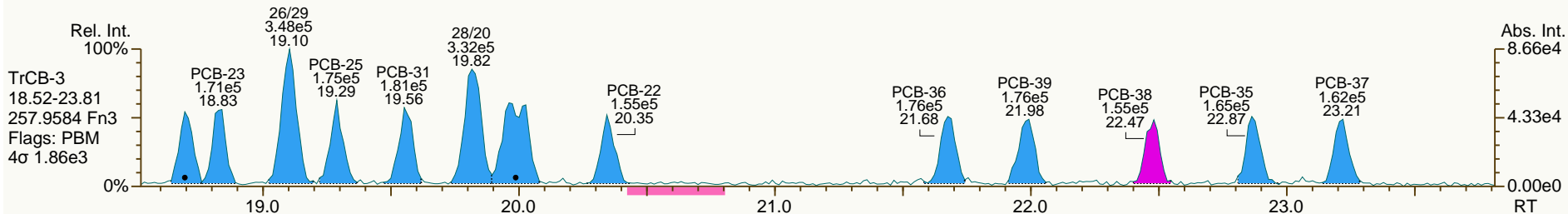
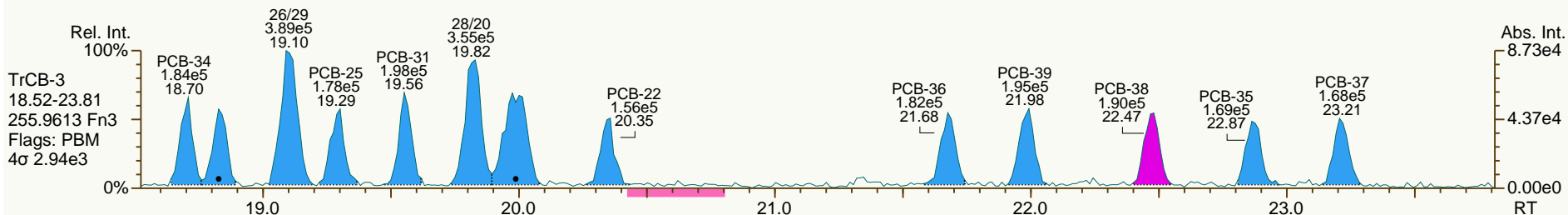
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

Acq: 11-Sep-2013 13:30:11
 User: CTW Datafile: 130911S03



SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

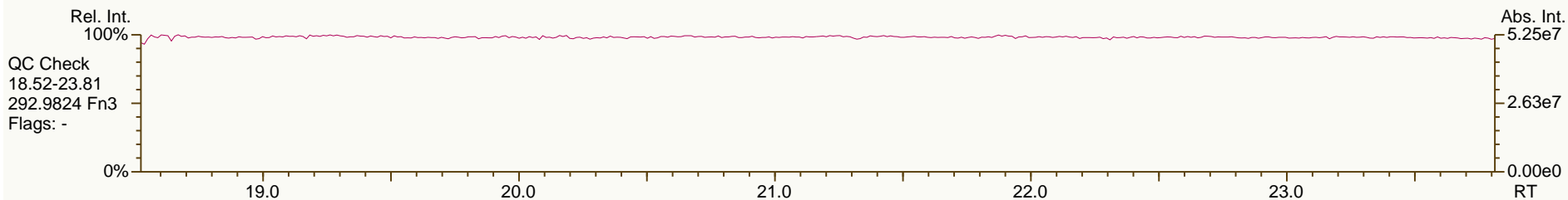
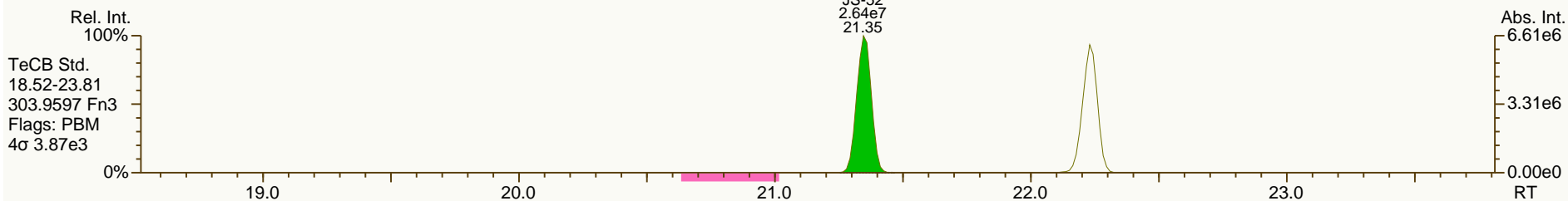
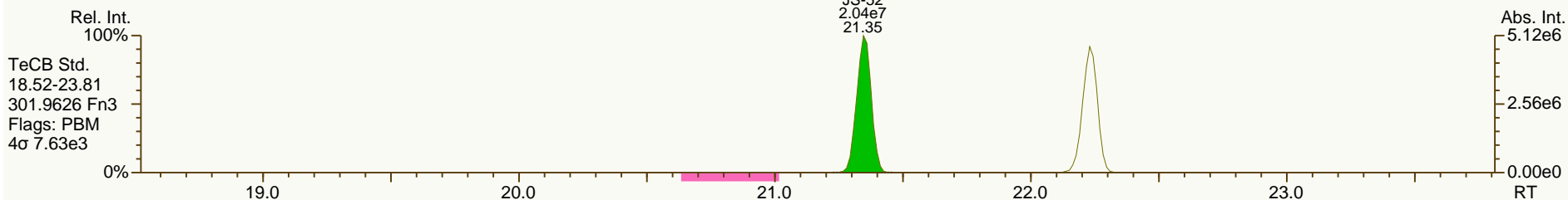
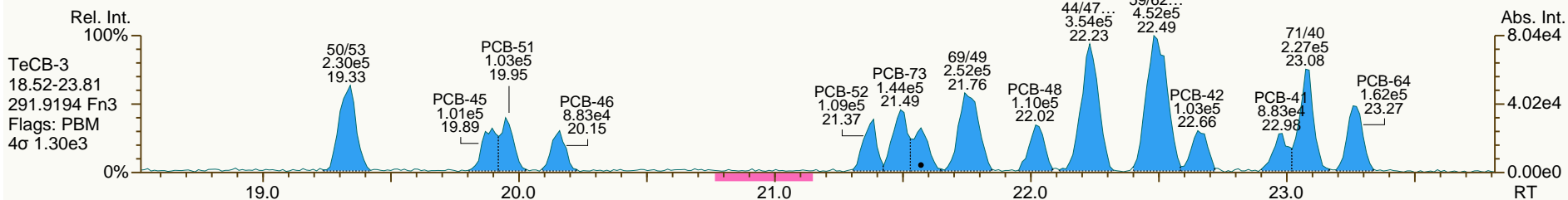
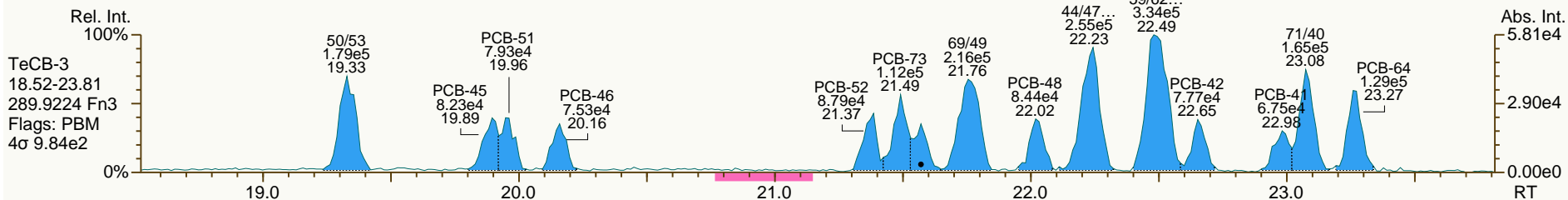
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

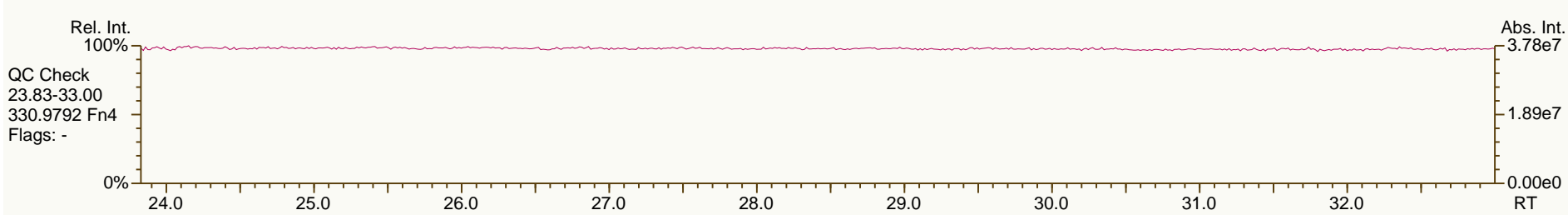
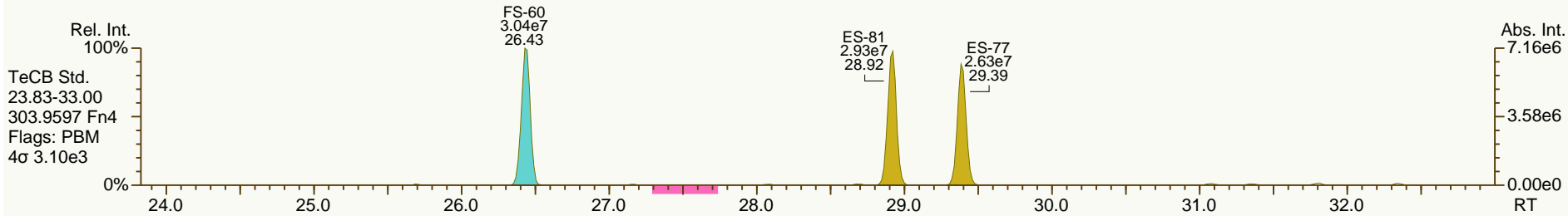
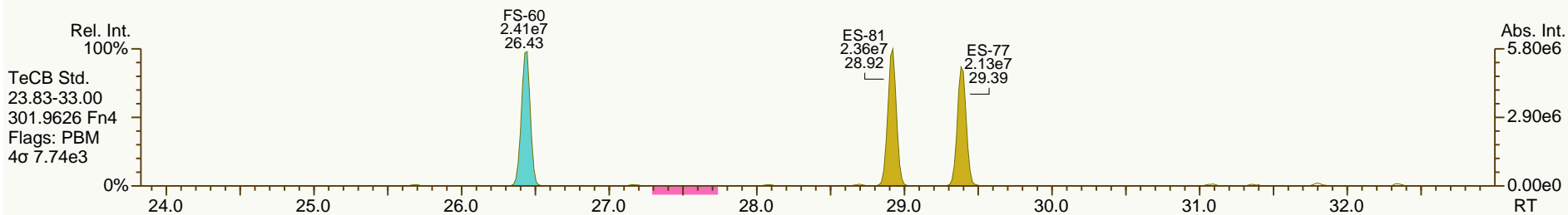
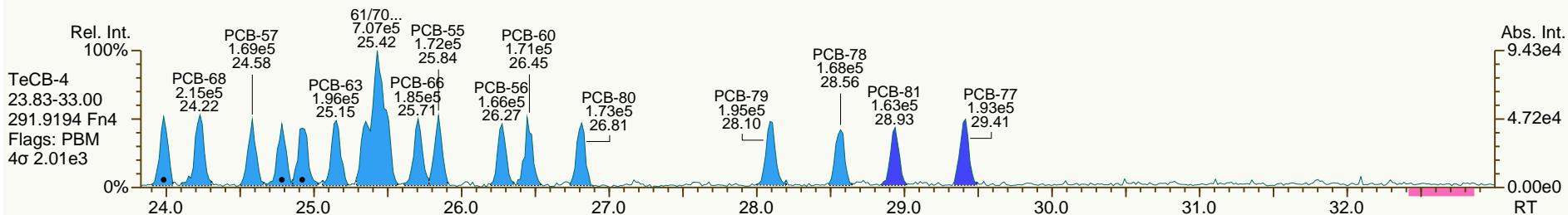
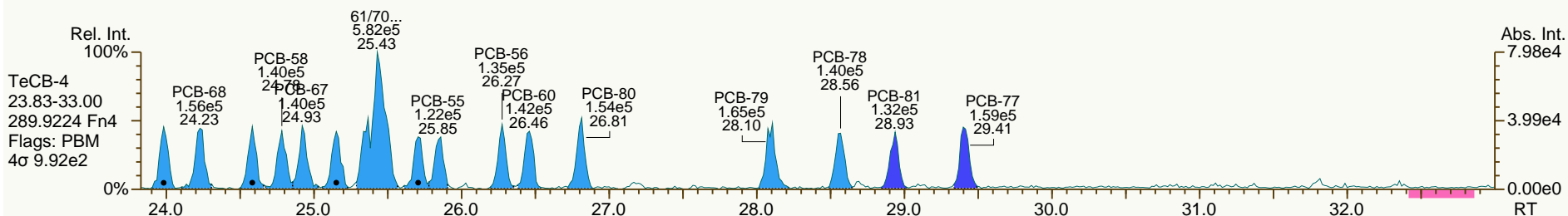
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

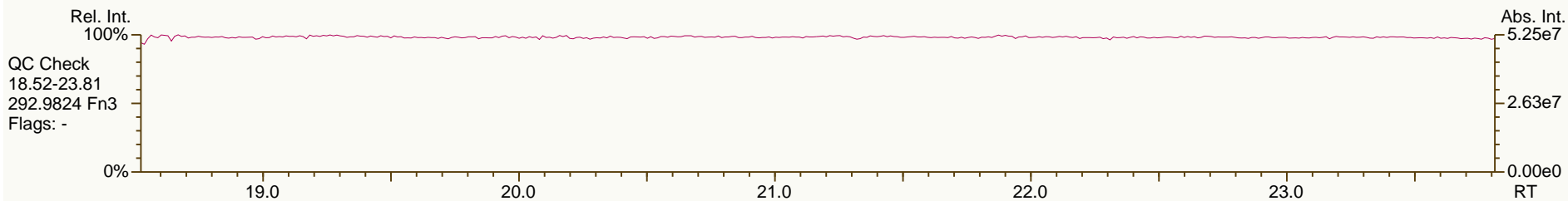
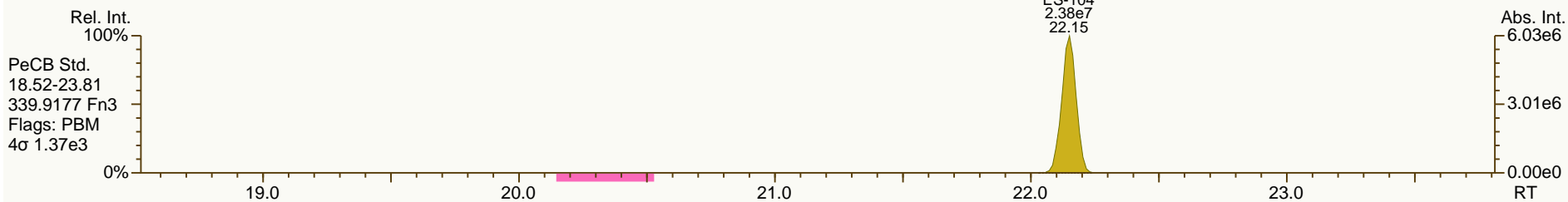
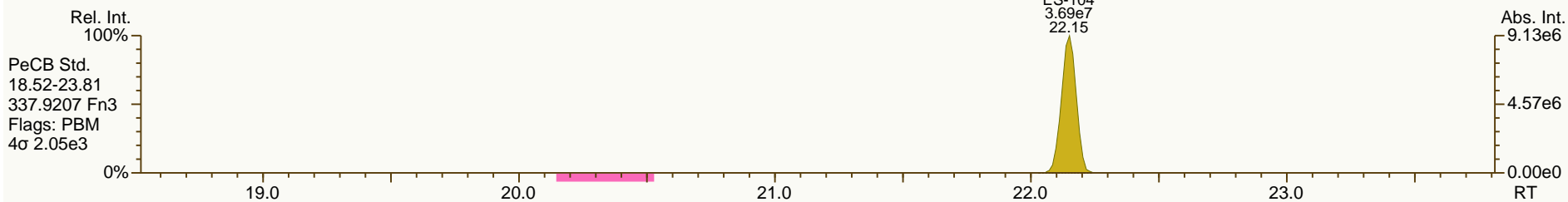
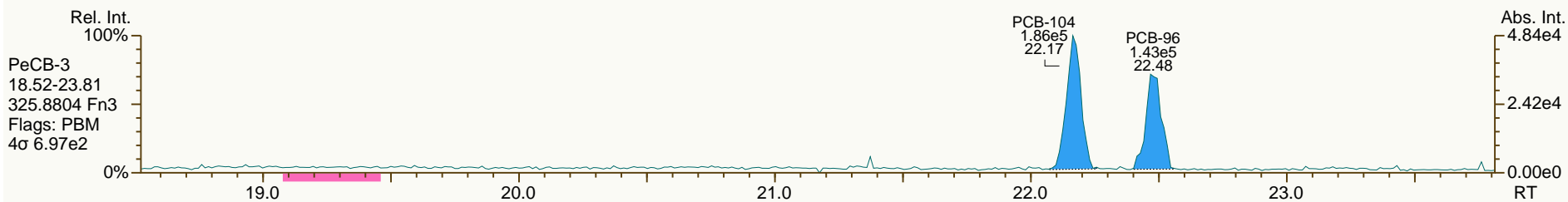
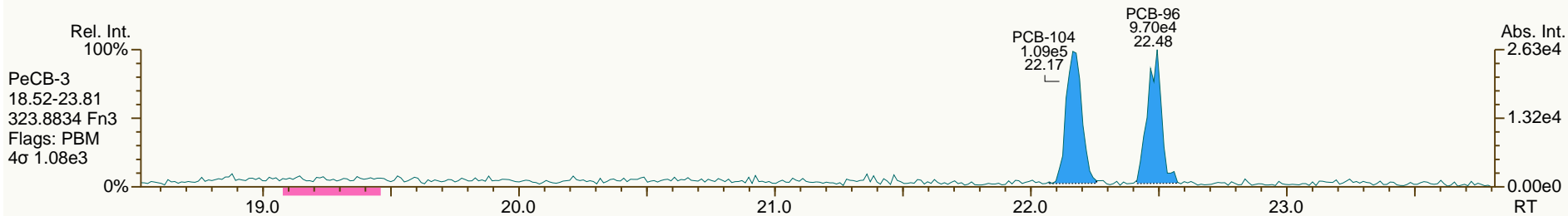
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
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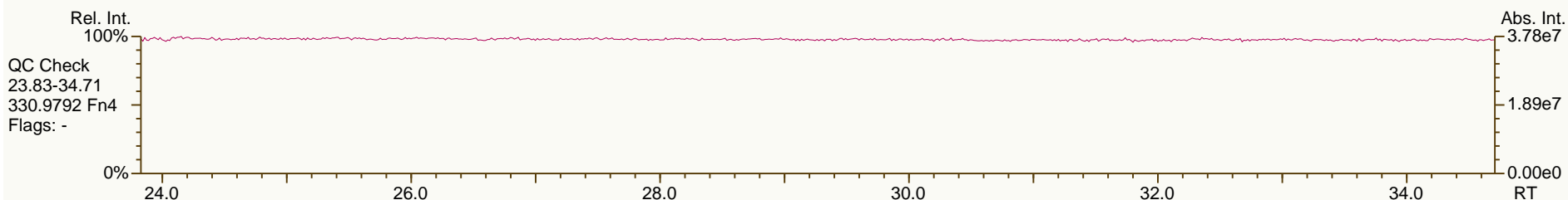
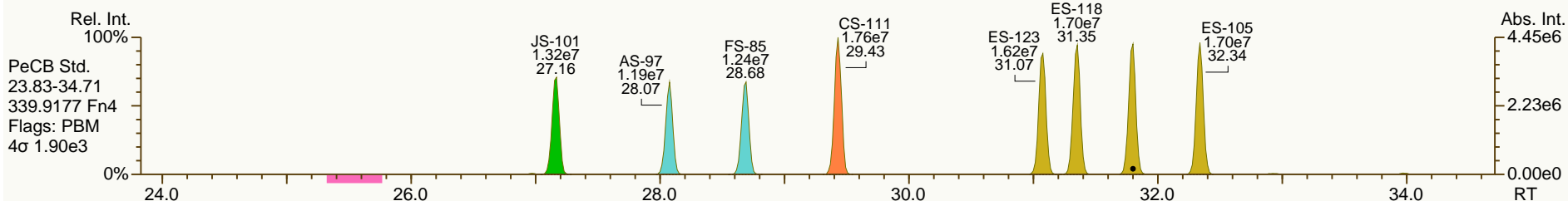
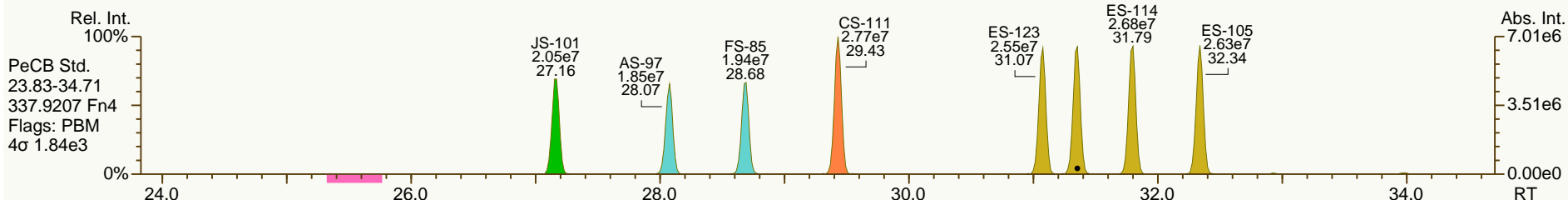
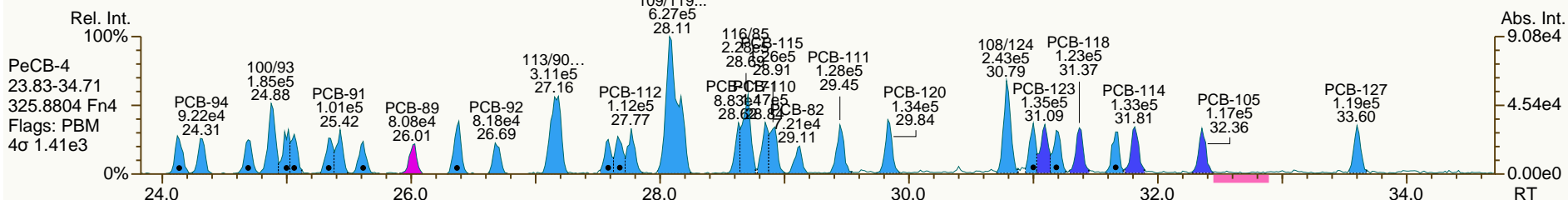
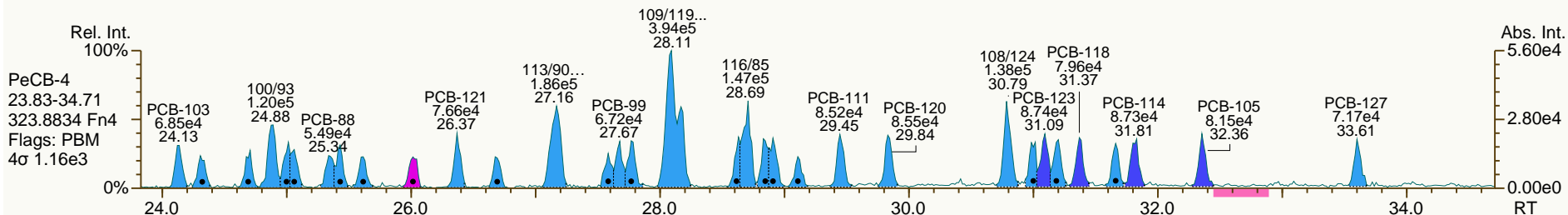
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SGS-AP ID: CS0_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

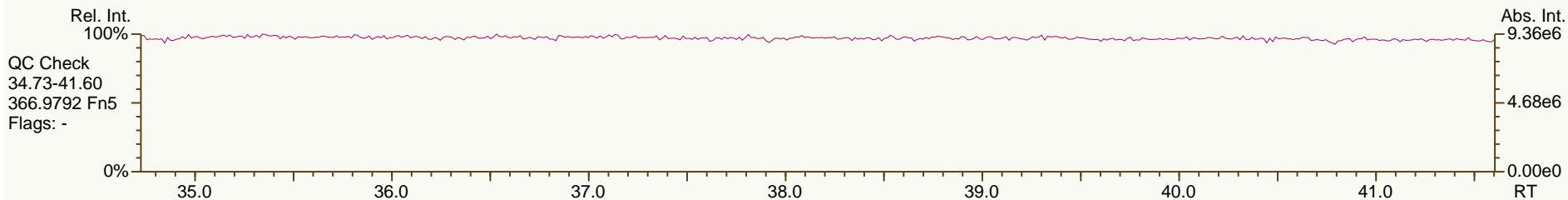
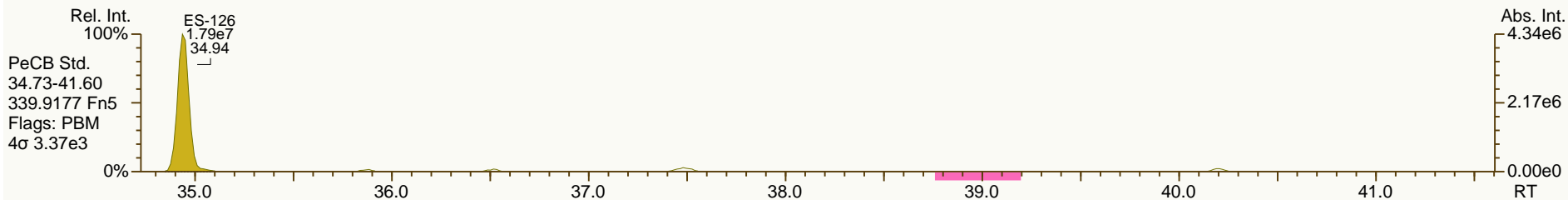
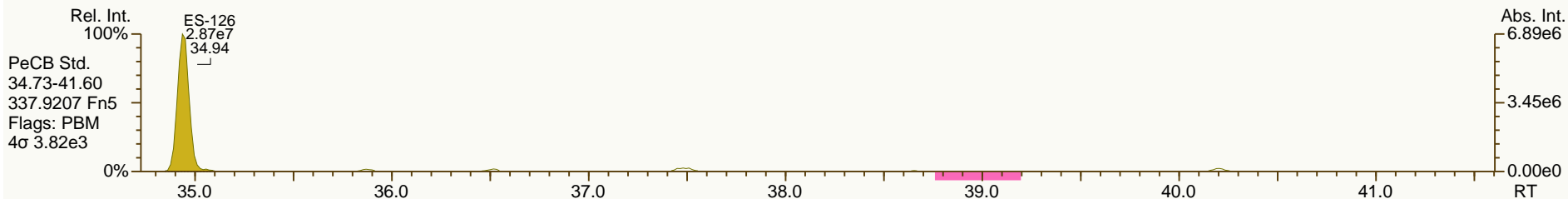
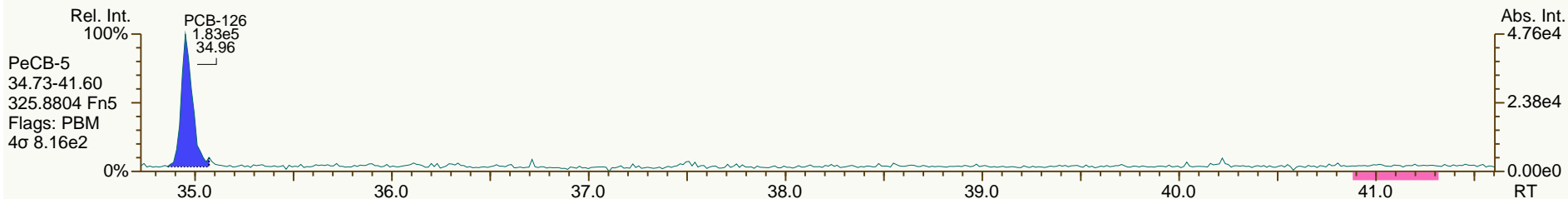
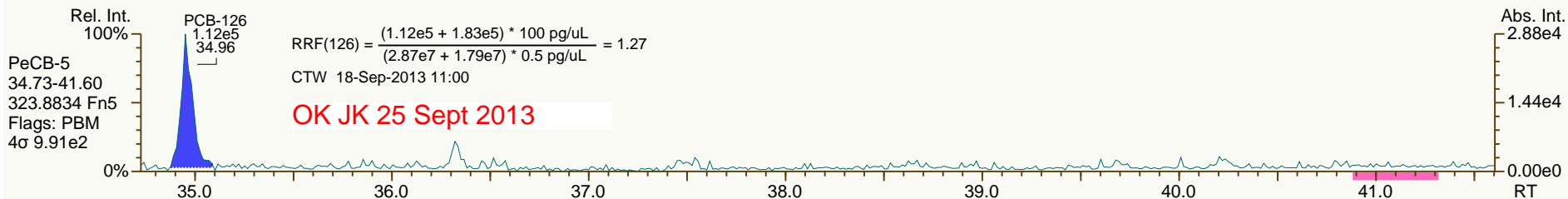
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

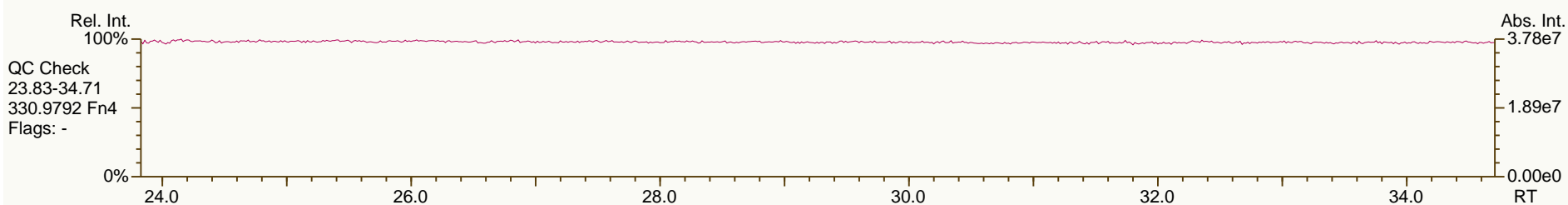
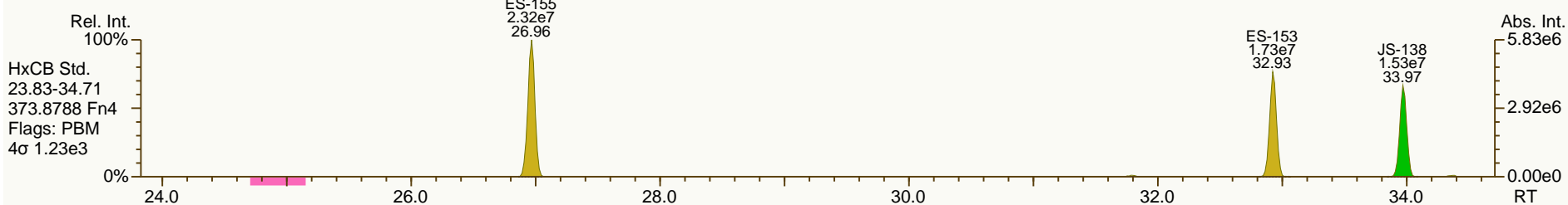
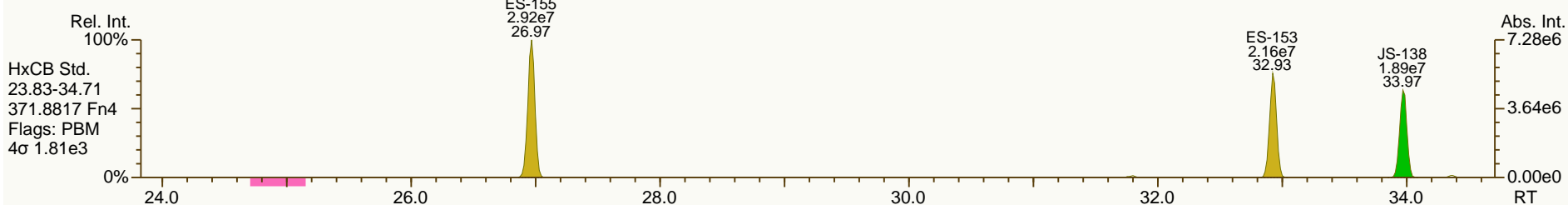
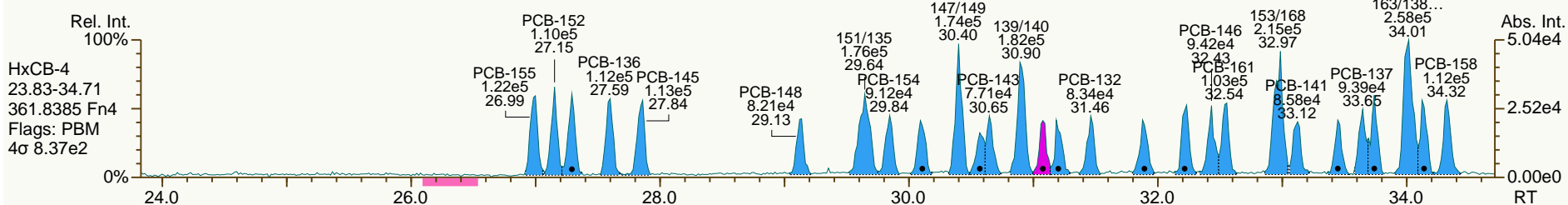
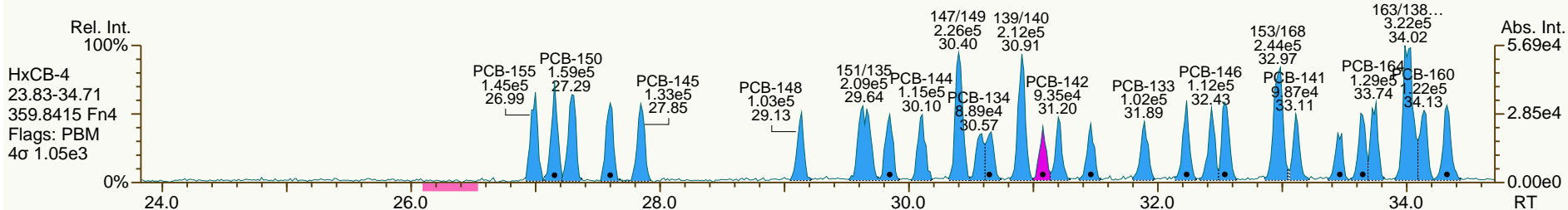
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

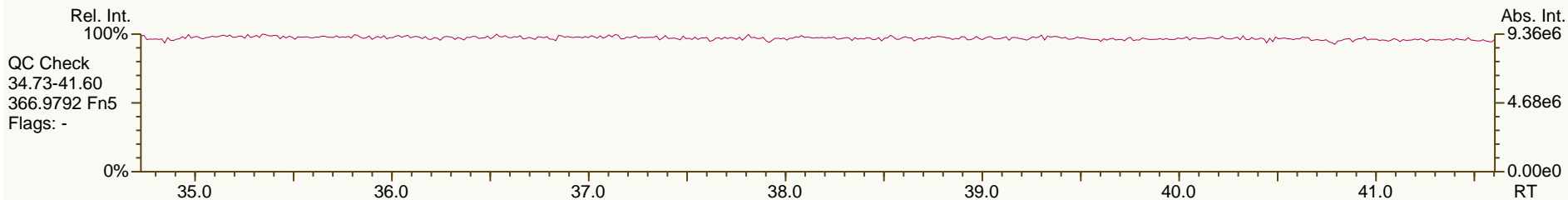
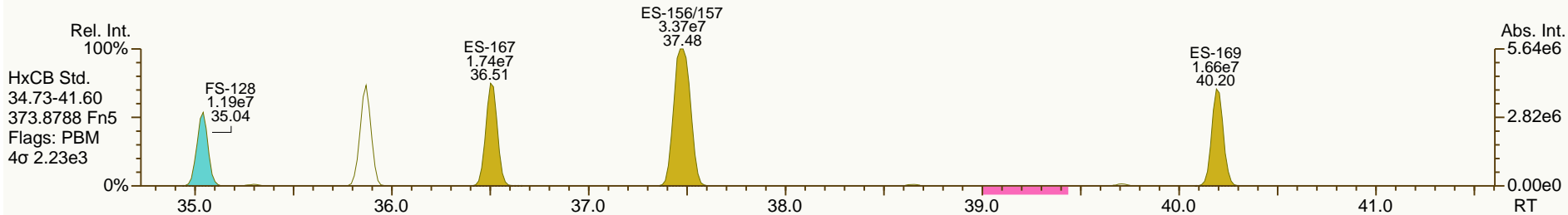
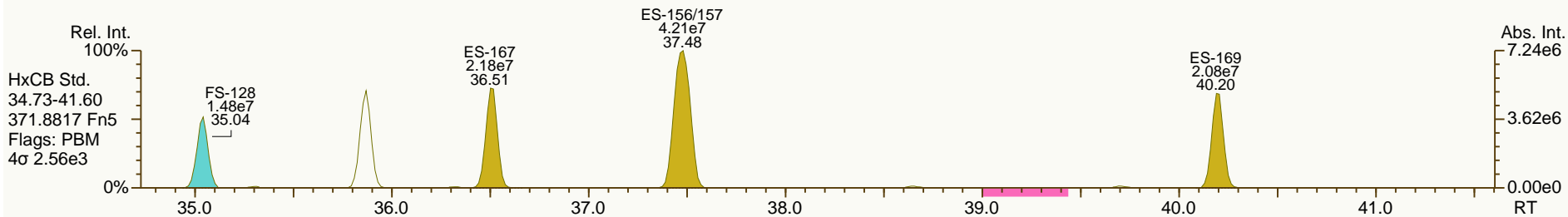
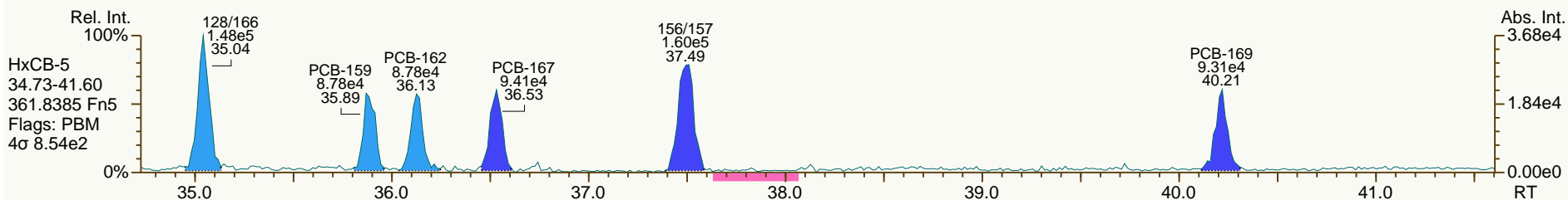
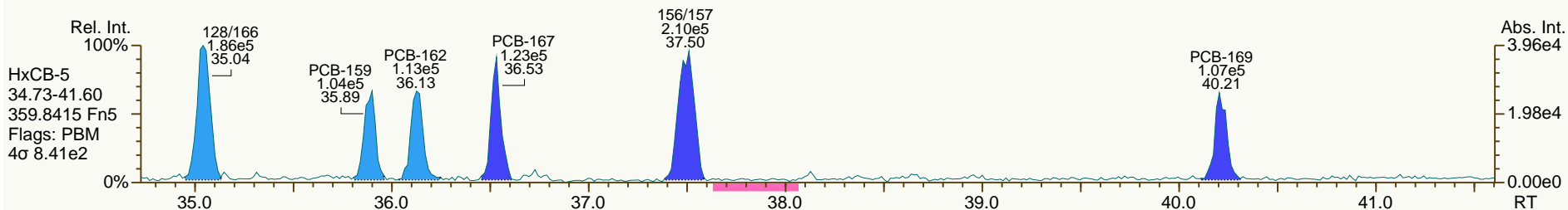
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
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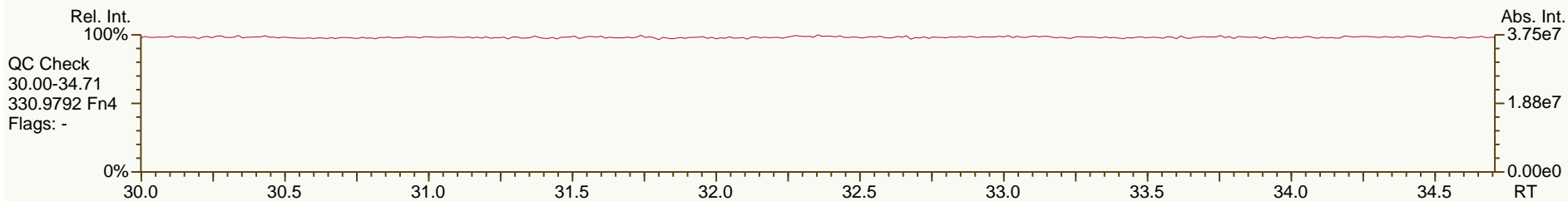
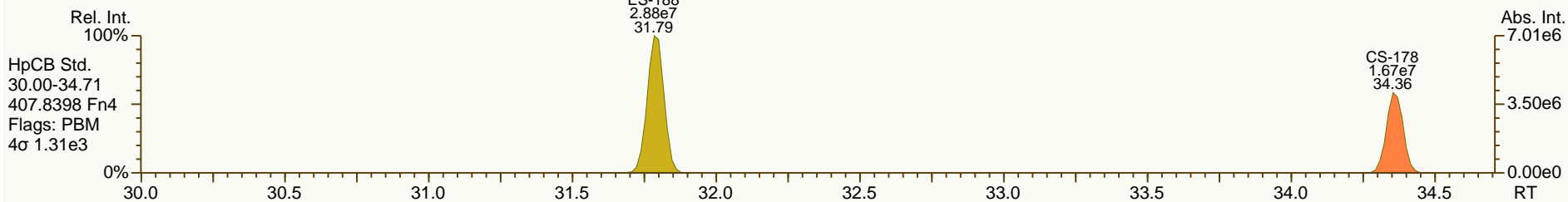
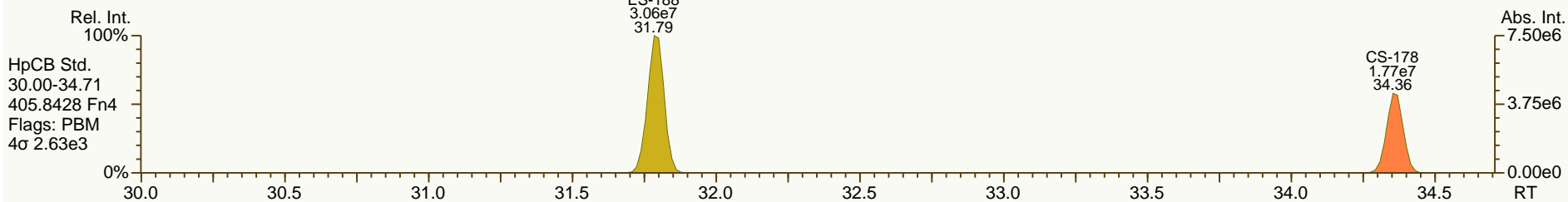
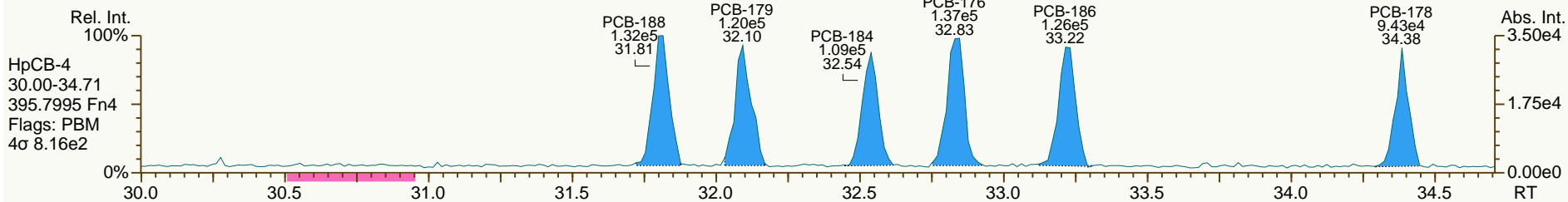
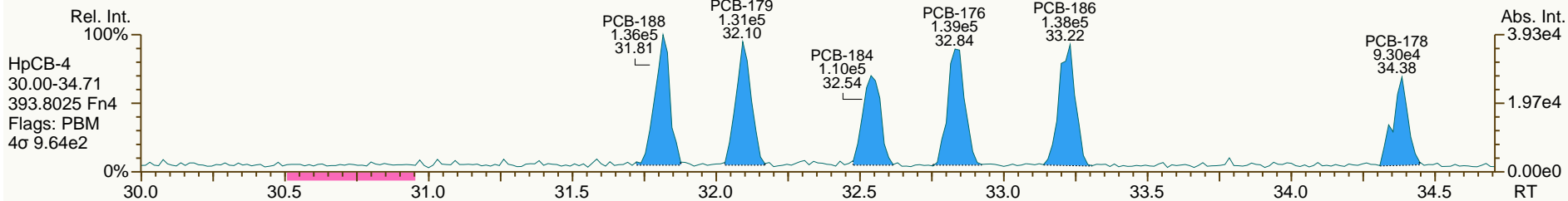
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SGS-AP ID: CS0_130911_PCB_SB
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Sample ID: SIL 13-40-6
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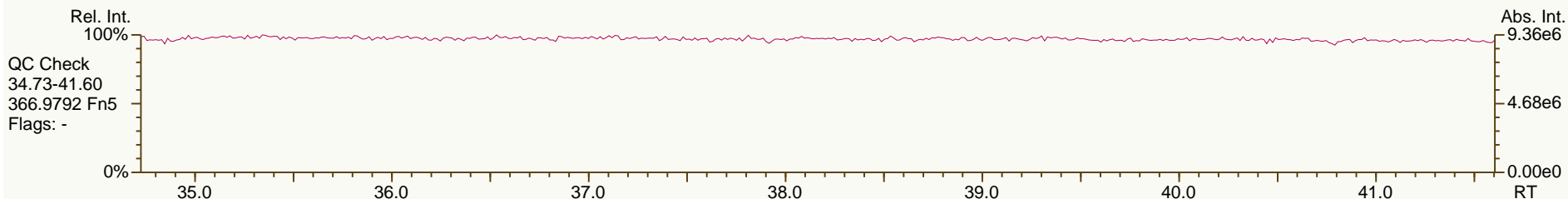
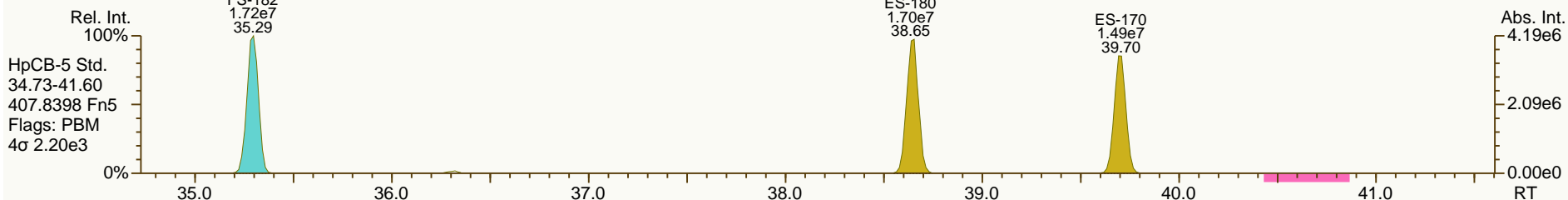
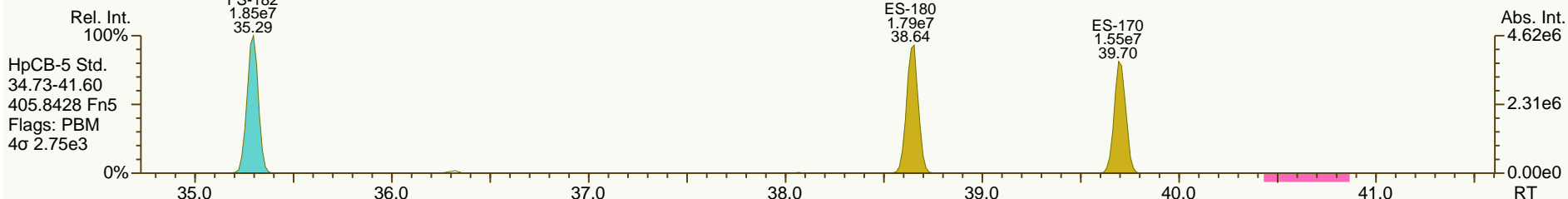
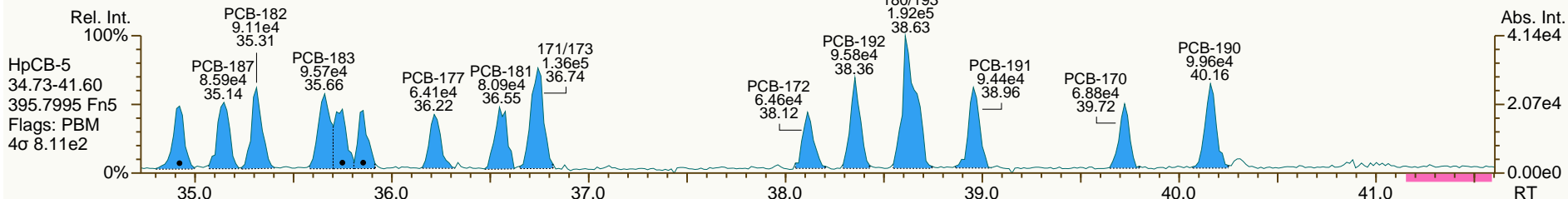
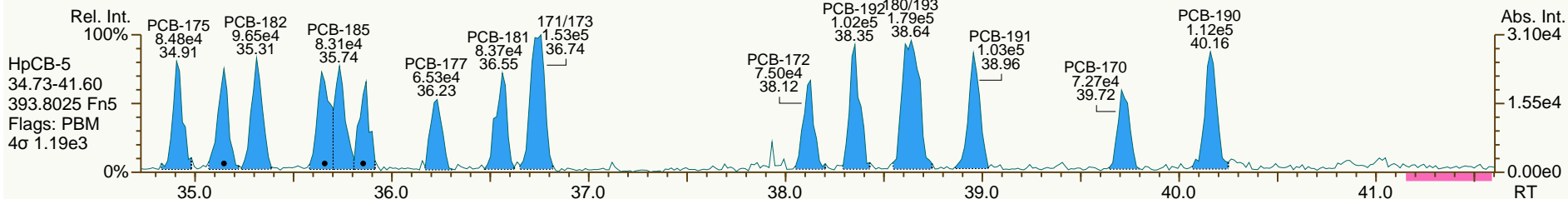
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
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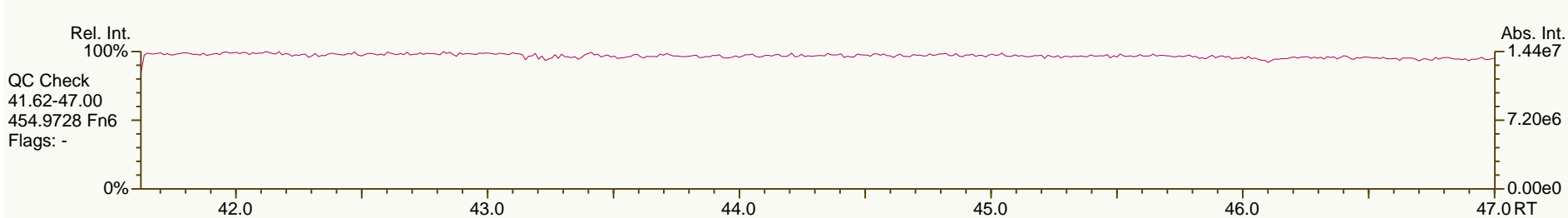
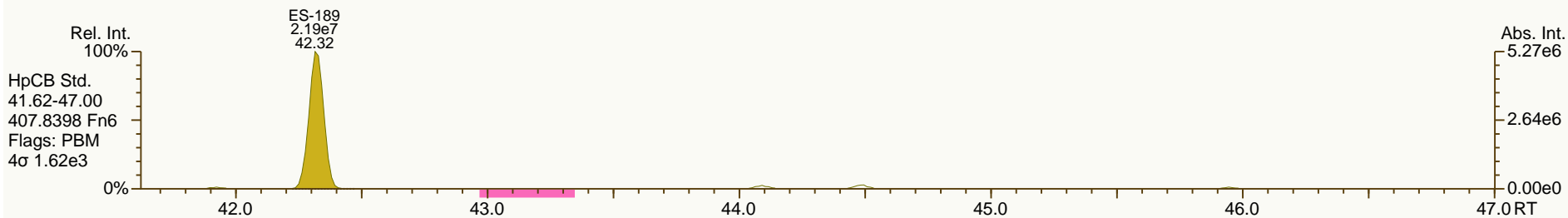
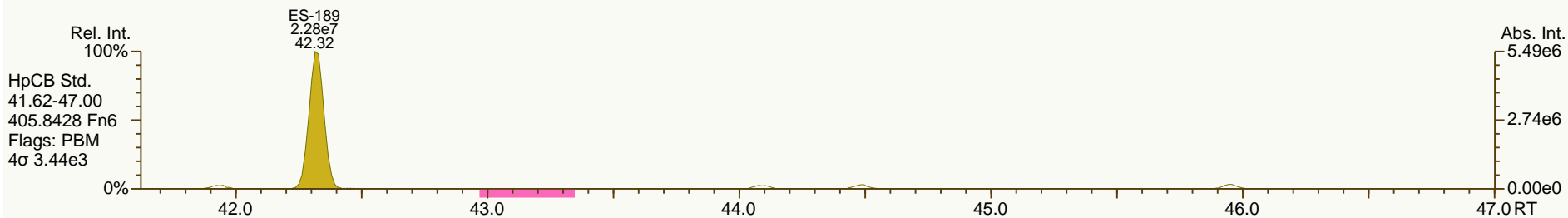
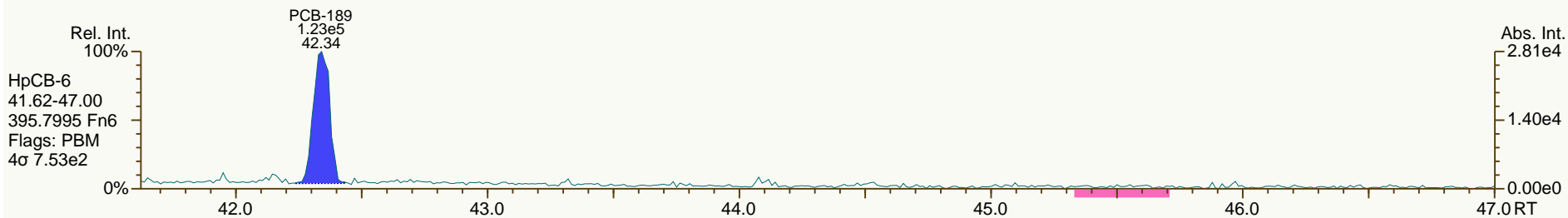
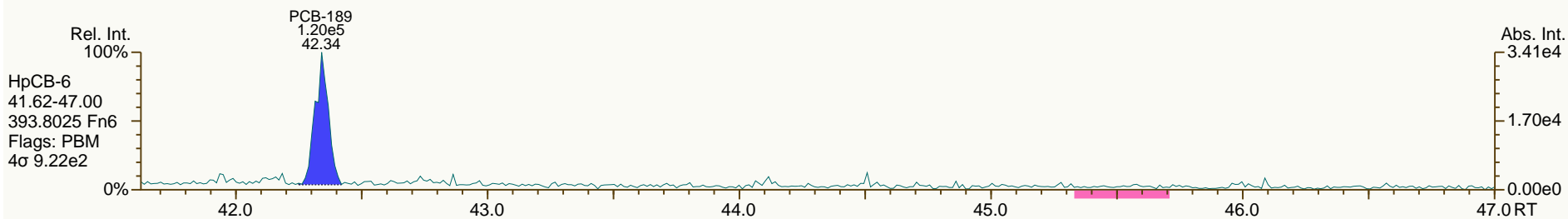
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SGS-AP ID: CS0_130911_PCB_SB
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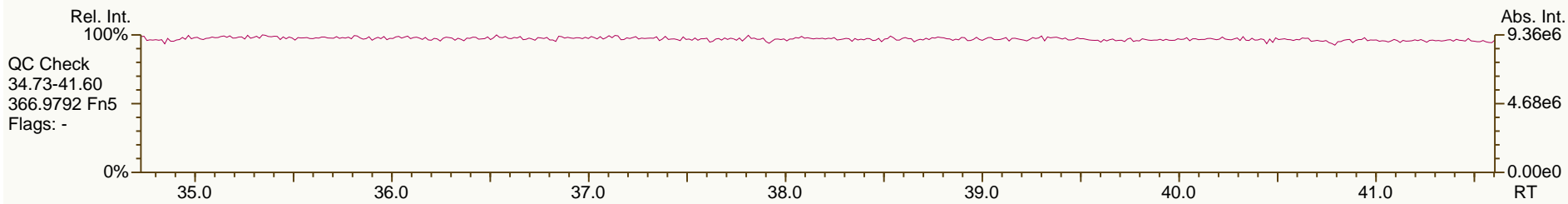
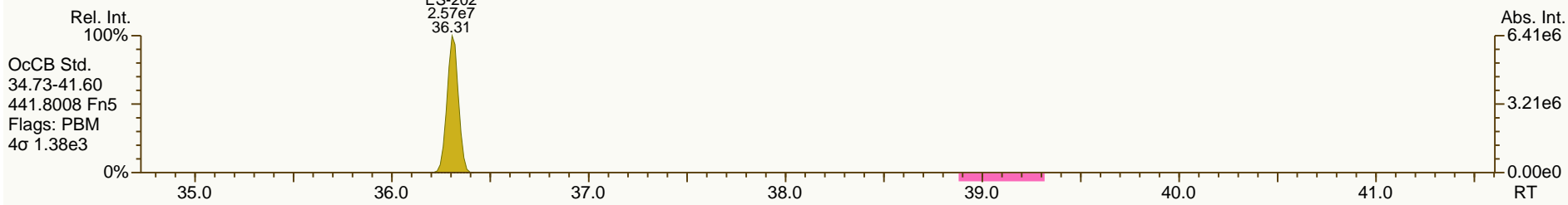
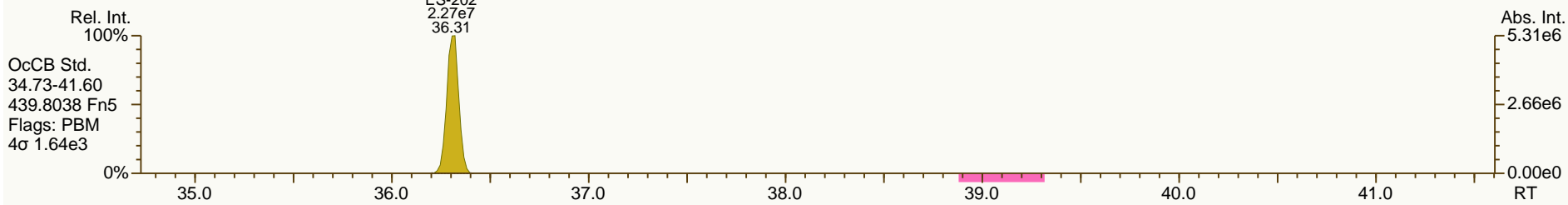
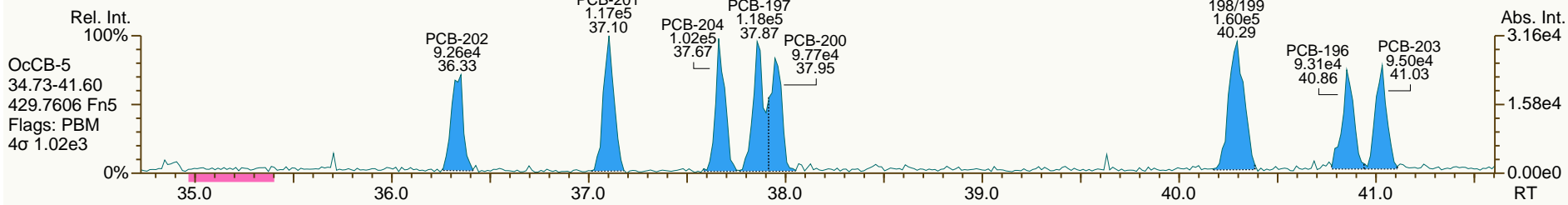
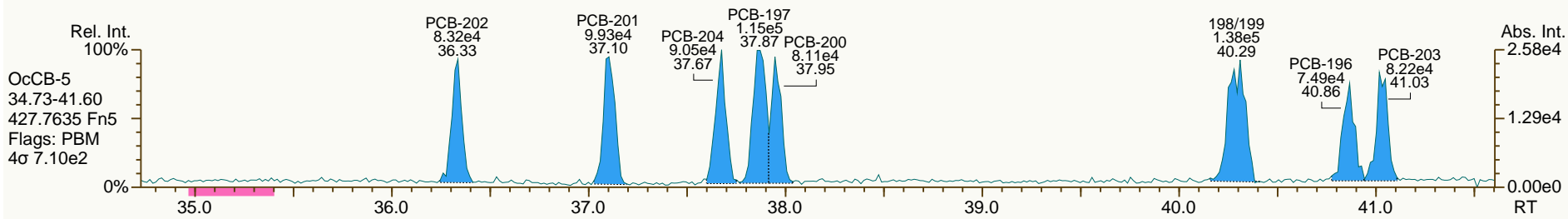
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
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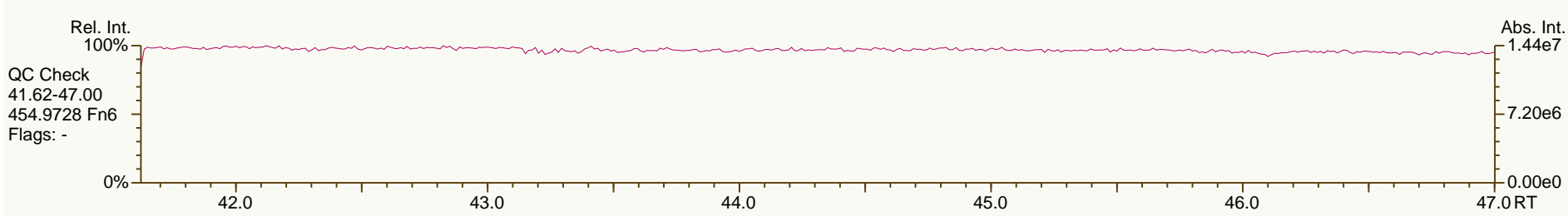
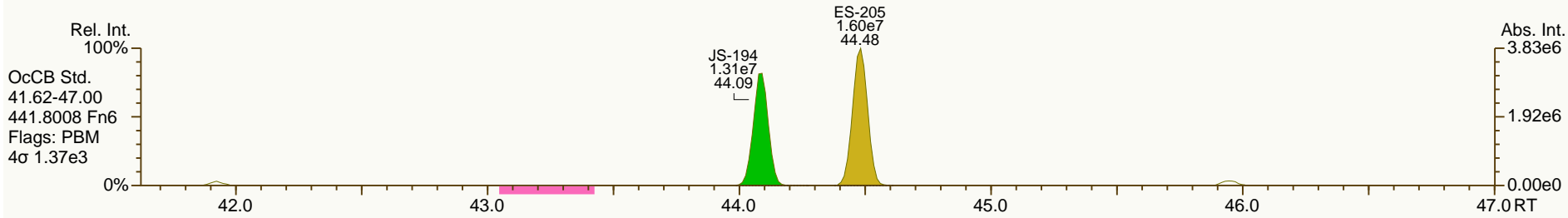
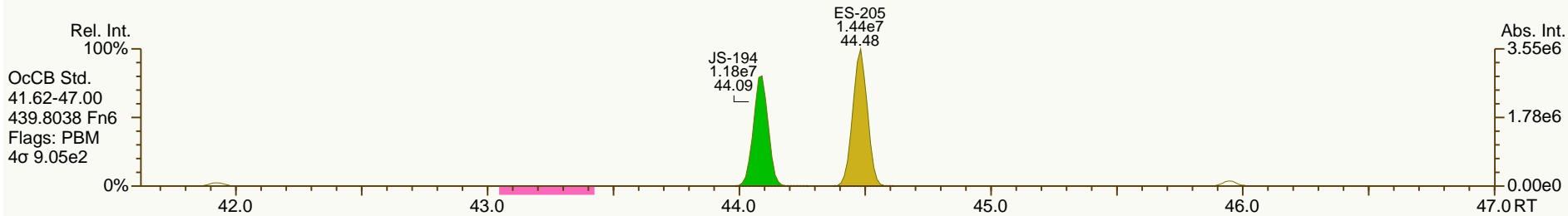
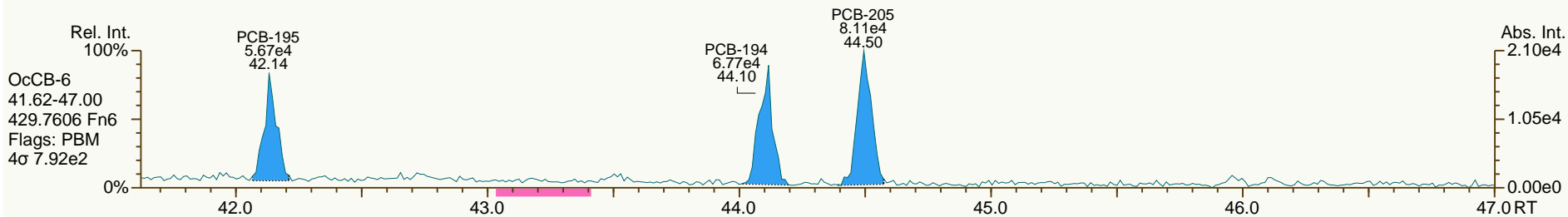
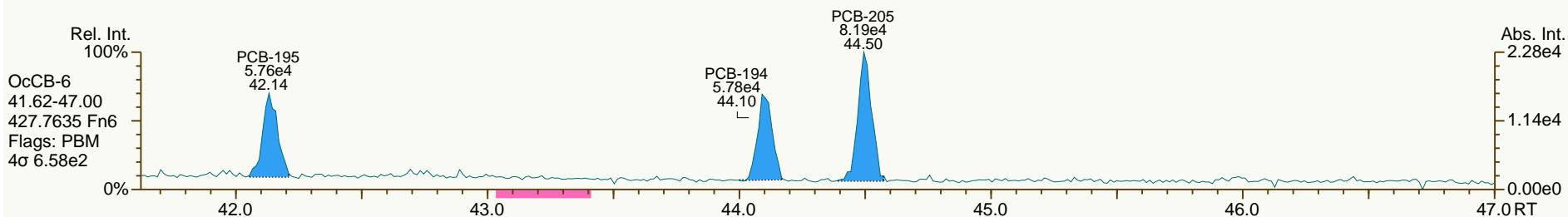
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
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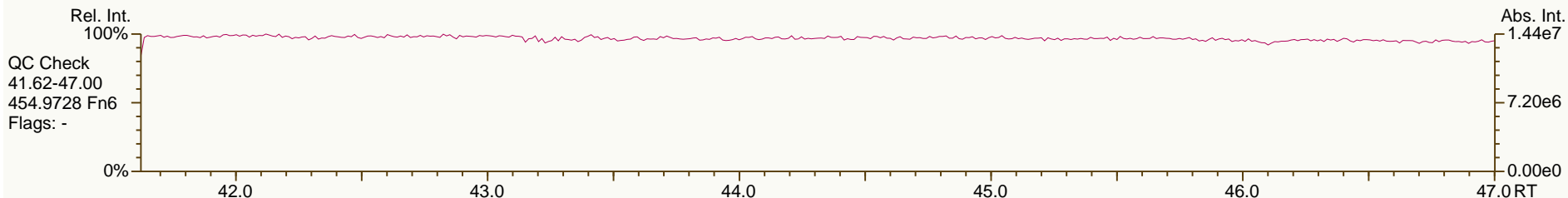
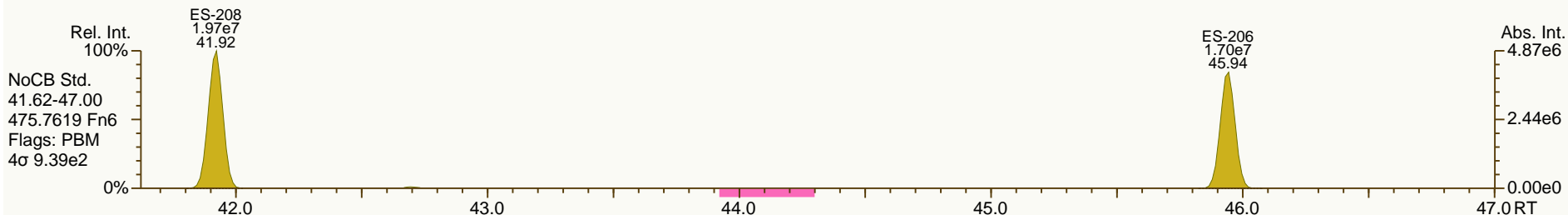
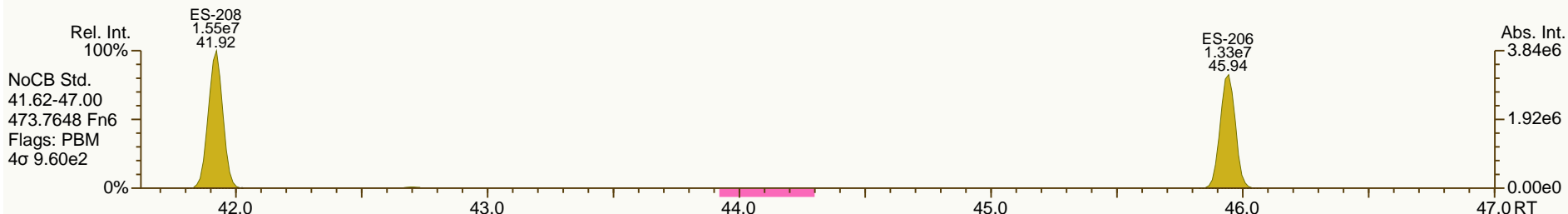
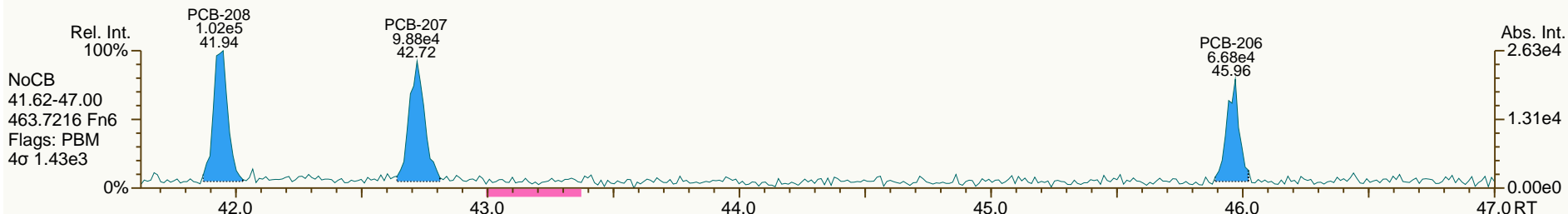
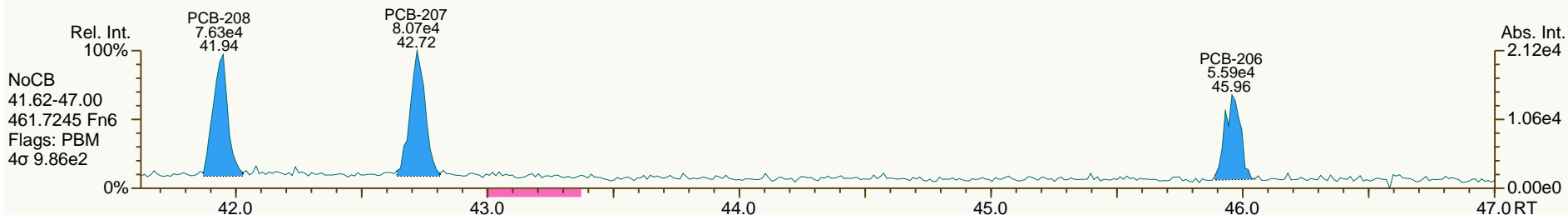
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
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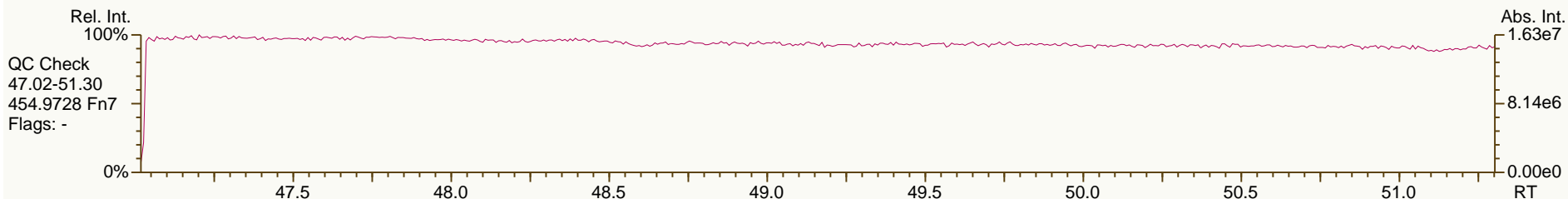
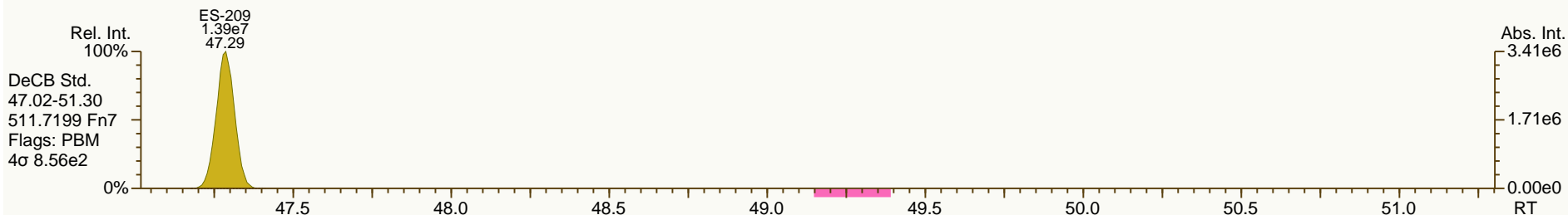
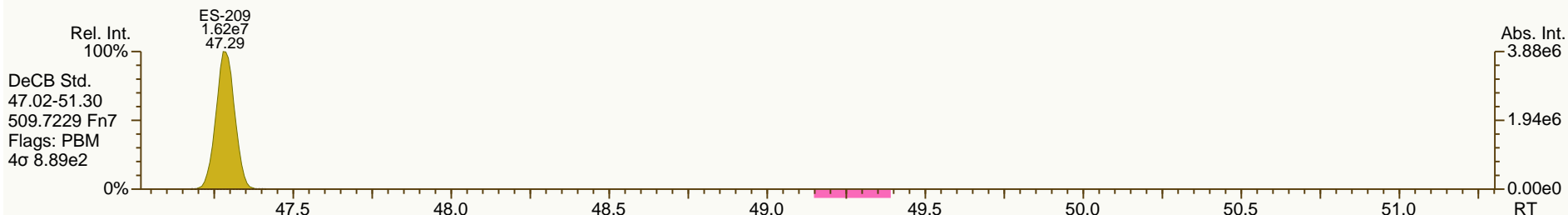
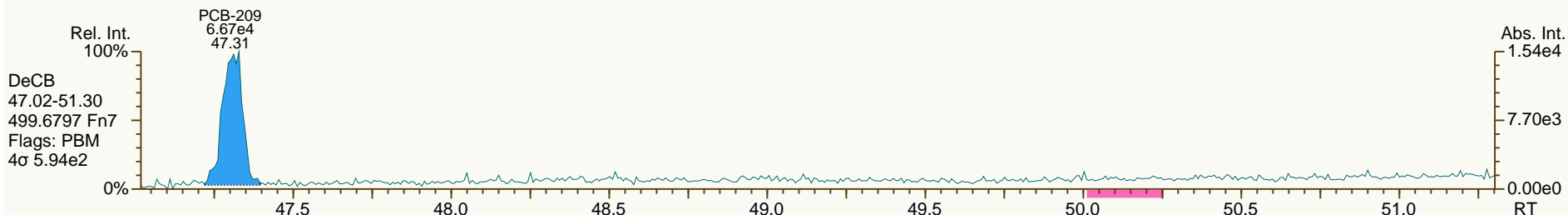
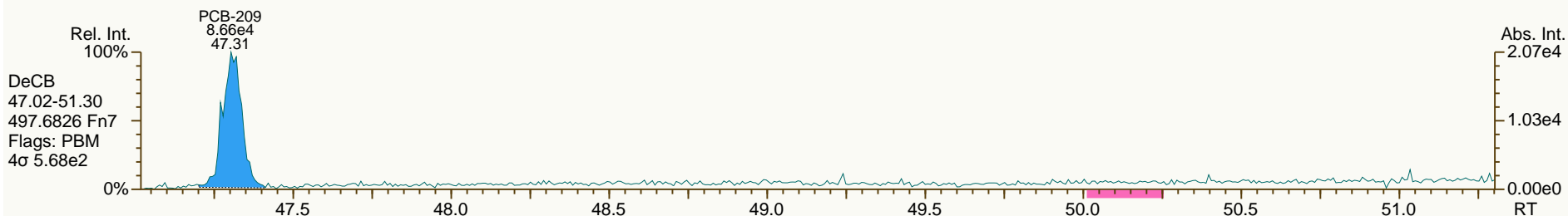
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

Acq: 11-Sep-2013 13:30:11
 User: CTW Datafile: 130911S03



PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:36		
Lab ID:	CS1_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 14:36						
Datafile:	130911S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	29.42	6.83E+05	0.79 Y	1.51	1.48	-1.9%	
PCB-81 344'5'-TeCB	28.95	6.32E+05	0.72 Y	1.27	1.25	-1.8%	
PCB-105 233'44'-PeCB	32.37	4.22E+05	0.58 Y	1.00	0.98	-1.4%	
PCB-114 2344'5'-PeCB	31.83	4.57E+05	0.63 Y	1.06	1.05	-1.4%	
PCB-118 23'44'5'-PeCB	31.38	4.11E+05	0.58 Y	1.01	0.96	-5.2%	
PCB-123 23'44'5'-PeCB	31.11	4.16E+05	0.60 Y	1.06	1.01	-4.9%	
PCB-126 33'44'5'-PeCB	34.97	5.39E+05	0.67 Y	1.26	1.17	-7.5%	
PCB-156/157 ...-HxCB	37.50	7.96E+05	1.18 Y	1.06	1.05	-1.7%	
PCB-167 23'44'55'-HxCB	36.54	4.21E+05	1.25 Y	1.12	1.07	-4.5%	
PCB-169 33'44'55'-HxCB	40.22	3.95E+05	1.32 Y	1.09	1.04	-4.2%	
PCB-189 233'44'55'-HpCB	42.35	5.08E+05	1.17 Y	1.15	1.13	-1.9%	
PCB-209 DeCB	47.31	3.14E+05	1.14 Y	1.03	1.04	0.3%	
ES PCB-1	9.95	7.66E+07	3.21 Y	1.04	1.04	0.2%	
ES PCB-3	11.88	7.13E+07	3.24 Y	0.99	0.97	-1.7%	
ES PCB-4	12.10	5.27E+07	1.57 Y	0.71	0.72	1.2%	
ES PCB-15	17.22	7.86E+07	1.63 Y	1.09	1.07	-1.7%	
ES PCB-19	14.81	4.35E+07	1.05 Y	0.59	0.59	0.4%	
ES PCB-37	23.21	5.63E+07	1.11 Y	1.32	1.29	-2.3%	
ES PCB-54	17.47	6.07E+07	0.78 Y	1.35	1.39	2.8%	
ES PCB-77	29.40	4.61E+07	0.80 Y	1.07	1.05	-1.3%	
ES PCB-81	28.93	5.07E+07	0.80 Y	1.19	1.16	-2.6%	
ES PCB-104	22.16	5.40E+07	1.58 Y	1.62	1.66	2.6%	
ES PCB-105	32.35	4.30E+07	1.57 Y	1.30	1.33	1.9%	
ES PCB-114	31.80	4.37E+07	1.62 Y	1.32	1.35	2.0%	
ES PCB-118	31.36	4.30E+07	1.58 Y	1.30	1.33	1.7%	
ES PCB-123	31.08	4.12E+07	1.54 Y	1.26	1.27	0.8%	
ES PCB-126	34.95	4.63E+07	1.58 Y	1.41	1.43	1.4%	
ES PCB-153	32.94	3.75E+07	1.26 Y	1.15	1.16	0.3%	
ES PCB-155	26.98	5.03E+07	1.27 Y	1.53	1.55	1.0%	
ES PCB-156/157	37.48	7.62E+07	1.25 Y	1.19	1.17	-1.2%	
ES PCB-167	36.52	3.94E+07	1.26 Y	1.22	1.21	-0.9%	
ES PCB-169	40.20	3.79E+07	1.23 Y	1.18	1.17	-1.2%	
ES PCB-170	39.71	2.99E+07	1.04 Y	1.22	1.23	0.8%	
ES PCB-180	38.65	3.50E+07	1.06 Y	1.41	1.44	2.5%	
ES PCB-188	31.80	5.61E+07	1.03 Y	1.71	1.73	1.2%	
ES PCB-189	42.33	4.49E+07	1.07 Y	1.84	1.85	0.5%	
ES PCB-202	36.32	4.65E+07	0.90 Y	1.42	1.43	1.1%	
ES PCB-205	44.49	3.08E+07	0.88 Y	1.25	1.27	1.3%	
ES PCB-206	45.95	3.07E+07	0.79 Y	1.24	1.27	2.3%	
ES PCB-208	41.93	3.51E+07	0.79 Y	1.42	1.44	1.7%	
ES PCB-209	47.29	3.03E+07	1.17 Y	1.23	1.25	1.1%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:36		
Lab ID:	CS1_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 14:36						
Datafile:	130911S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	19.81	6.09E+07	1.07 Y	1.06	1.08	1.8%	
SS PCB-111	29.44	4.42E+07	1.57 Y	1.06	1.07	1.1%	
SS PCB-178	34.37	3.32E+07	1.10 Y	0.58	0.59	1.4%	
CS PCB-28	19.81	6.09E+07	1.07 Y	1.40	1.39	-0.5%	
CS PCB-111	29.44	4.42E+07	1.57 Y	1.34	1.36	1.9%	
CS PCB-178	34.37	3.32E+07	1.10 Y	0.99	1.02	2.7%	
JS PCB-9	13.83	7.33E+07	1.62 Y	-	-	-	
JS PCB-52	21.36	4.37E+07	0.79 Y	-	-	-	
JS PCB-101	27.17	3.24E+07	1.55 Y	-	-	-	
JS PCB-138	33.98	3.25E+07	1.26 Y	-	-	-	
JS PCB-194	44.09	2.43E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	9.96	9.12E+05	3.32 Y	1.20	1.19	-0.4%	
PCB-3 4-MoCB	11.89	8.91E+05	3.20 Y	1.24	1.25	0.9%	
PCB-4 22'-DiCB	12.11	5.19E+05	0.00 S	0.97	0.98	1.4%	
PCB-15 44'-DiCB	17.23	9.80E+05	0.00 S	1.23	1.25	1.5%	
PCB-19 22'6'-TrCB	14.83	4.42E+05	0.95 Y	0.97	1.02	4.9%	
PCB-37 344'-TrCB	23.23	7.15E+05	1.06 Y	1.28	1.27	-1.0%	
PCB-54 22'66'-TeCB	17.48	5.97E+05	0.76 Y	1.00	0.98	-1.7%	
PCB-104 22'466'-PeCB	22.19	5.68E+05	0.67 Y	1.06	1.05	-0.4%	
PCB-153/168 ...-HxCB	32.98	9.30E+05	1.19 Y	1.26	1.24	-1.5%	
PCB-155 22'44'66'-HxCB	27.00	5.54E+05	1.38 Y	1.12	1.10	-1.8%	
PCB-170 22'33'44'5'-HpCB	39.73	3.02E+05	1.05 Y	1.01	1.01	0.2%	
PCB-180/193 ...-HpCB	38.64	7.62E+05	1.08 Y	1.11	1.09	-2.1%	
PCB-188 22'34'566'-HpCB	31.82	5.47E+05	0.98 Y	0.97	0.97	0.5%	
PCB-202 22'33'55'66'-OcCB	36.34	3.86E+05	0.98 Y	0.83	0.83	-0.1%	
PCB-205 233'44'55'6'-OcCB	44.51	3.07E+05	0.91 Y	1.08	1.00	-7.8%	
PCB-208 22'33'455'66'-NoCB	41.95	3.44E+05	0.75 Y	0.99	0.98	-1.1%	
PCB-206 22'33'44'55'6'-NoCB	45.97	2.52E+05	0.79 Y	0.83	0.82	-1.0%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS1_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 14:36						
Datafile:	130911S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	9.96	9.12E+05	3.32 Y	1.20	1.19	-0.4%	
PCB-2 3-MoCB	11.74	8.83E+05	3.10 Y	1.25	1.24	-0.7%	
PCB-3 4-MoCB	11.89	8.91E+05	3.20 Y	1.24	1.25	0.9%	
PCB-4 22'-DiCB	12.11	5.19E+05	0.00 S	0.97	0.98	1.4%	
PCB-10 26'-DiCB	12.26	7.91E+05	0.00 S	1.51	1.50	-0.6%	
PCB-9 25'-DiCB	13.85	8.75E+05	0.00 S	1.06	1.11	5.1%	
PCB-7 24'-DiCB	13.99	9.86E+05	0.00 S	1.23	1.25	1.9%	
PCB-6 23'-DiCB	14.20	8.91E+05	0.00 S	1.14	1.13	-0.3%	
PCB-5 23'-DiCB	14.47	9.71E+05	0.00 S	1.15	1.24	7.7%	
PCB-8 24'-DiCB	14.57	9.87E+05	0.00 S	1.18	1.26	6.9%	
PCB-14 35'-DiCB	15.98	1.08E+06	0.00 S	1.31	1.38	4.8%	
PCB-11 33'-DiCB	16.70	9.43E+05	0.00 S	1.17	1.20	2.5%	
PCB-13/12 34'/34'-DiCB	16.97	1.88E+06	0.00 S	1.17	1.19	2.6%	
PCB-15 44'-DiCB	17.23	9.80E+05	0.00 S	1.23	1.25	1.5%	
PCB-19 22'6'-TrCB	14.83	4.42E+05	0.95 Y	0.97	1.02	4.9%	
PCB-30/18 246/22'5'-TrCB	16.43	1.05E+06	1.10 Y	1.23	1.21	-2.3%	
PCB-17 22'4'-TrCB	16.80	4.51E+05	1.09 Y	1.06	1.04	-1.7%	
PCB-27 23'6'-TrCB	16.98	6.02E+05	0.97 Y	1.44	1.38	-3.9%	
PCB-24 236'-TrCB	17.09	5.68E+05	1.00 Y	1.37	1.31	-4.5%	
PCB-16 22'3'-TrCB	17.19	3.40E+05	1.09 Y	0.80	0.78	-3.0%	
PCB-32 24'6'-TrCB	17.63	6.89E+05	1.08 Y	1.59	1.58	-0.4%	
PCB-34 23'5'-TrCB	18.72	6.88E+05	1.02 Y	1.26	1.22	-3.3%	
PCB-23 235'-TrCB	18.85	7.49E+05	1.02 Y	1.31	1.33	1.5%	
PCB-26/29 23'5'/245'-TrCB	19.12	1.48E+06	1.06 Y	1.33	1.31	-1.6%	
PCB-25 23'4'-TrCB	19.31	7.40E+05	1.07 Y	1.33	1.31	-1.3%	
PCB-31 24'5'-TrCB	19.57	7.89E+05	1.02 Y	1.39	1.40	1.2%	
PCB-28/20 244'/233'-TrCB	19.84	1.47E+06	1.06 Y	1.30	1.31	0.7%	
PCB-21/33 234/23'4'-TrCB	20.00	1.51E+06	1.07 Y	1.34	1.34	0.0%	
PCB-22 234'-TrCB	20.36	6.92E+05	1.08 Y	1.22	1.23	1.0%	
PCB-36 33'5'-TrCB	21.69	7.45E+05	1.19 Y	1.35	1.32	-1.9%	
PCB-39 34'5'-TrCB	22.00	7.74E+05	1.06 Y	1.40	1.37	-1.6%	
PCB-38 345'-TrCB	22.49	6.96E+05	1.09 Y	1.25	1.24	-1.1%	
PCB-35 33'4'-TrCB	22.89	6.73E+05	0.99 Y	1.23	1.20	-2.9%	
PCB-37 344'-TrCB	23.23	7.15E+05	1.06 Y	1.28	1.27	-1.0%	
PCB-54 22'66'-TeCB	17.48	5.97E+05	0.76 Y	1.00	0.98	-1.7%	
PCB-50/53 22'46'/22'56'-TeCB	19.35	8.21E+05	0.74 Y	0.82	0.81	-0.7%	
PCB-45 22'36'-TeCB	19.90	3.56E+05	0.76 Y	0.73	0.70	-3.9%	
PCB-51 22'46'-TeCB	19.97	4.27E+05	0.78 Y	0.79	0.84	6.3%	
PCB-46 22'36'-TeCB	20.17	3.43E+05	0.79 Y	0.66	0.68	2.8%	
PCB-52 22'55'-TeCB	21.39	4.09E+05	0.69 Y	0.79	0.81	2.3%	
PCB-73 23'5'6'-TeCB	21.51	5.51E+05	0.74 Y	1.06	1.09	2.7%	
PCB-43 22'35'-TeCB	21.59	3.01E+05	0.74 Y	0.64	0.59	-7.3%	
PCB-69/49 23'46'/22'45'-TeCB	21.78	9.58E+05	0.76 Y	0.95	0.95	-0.2%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS1_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 14:36						
Datafile:	130911S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.04	3.82E+05	0.75 Y	0.79	0.75	-4.0%	
PCB-44/47/65 ...-TeCB	22.25	1.30E+06	0.79 Y	0.84	0.86	2.0%	
PCB-59/62/75 ...-TeCB	22.51	1.63E+06	0.76 Y	1.07	1.07	0.0%	
PCB-42 22'34'-TeCB	22.68	3.62E+05	0.79 Y	0.72	0.71	-0.8%	
PCB-41 22'34'-TeCB	22.99	3.26E+05	0.70 Y	0.66	0.64	-2.0%	
PCB-71/40 23'4'6/22'33'-TeCB	23.09	7.87E+05	0.79 Y	0.79	0.78	-2.2%	
PCB-64 23'4'6'-TeCB	23.28	5.41E+05	0.75 Y	1.13	1.07	-5.9%	
PCB-72 23'55'-TeCB	24.00	6.40E+05	0.81 Y	1.31	1.26	-3.5%	
PCB-68 23'45'-TeCB	24.24	6.65E+05	0.76 Y	1.43	1.31	-7.9%	
PCB-57 23'35'-TeCB	24.60	6.29E+05	0.78 Y	1.26	1.24	-1.5%	
PCB-58 23'35'-TeCB	24.80	6.62E+05	0.88 Y	1.30	1.31	0.2%	
PCB-67 23'45'-TeCB	24.94	6.49E+05	0.72 Y	1.35	1.28	-4.8%	
PCB-63 23'45'-TeCB	25.16	7.27E+05	0.83 Y	1.42	1.43	1.0%	
PCB-61/70/74/76 ...-TeCB	25.44	2.66E+06	0.79 Y	1.32	1.31	-0.5%	
PCB-66 23'44'-TeCB	25.72	6.44E+05	0.82 Y	1.26	1.27	0.7%	
PCB-55 23'34'-TeCB	25.86	6.02E+05	0.78 Y	1.24	1.19	-3.8%	
PCB-56 23'34'-TeCB	26.29	6.14E+05	0.79 Y	1.22	1.21	-0.9%	
PCB-60 23'44'-TeCB	26.47	6.62E+05	0.78 Y	1.29	1.31	1.4%	
PCB-80 33'55'-TeCB	26.82	7.06E+05	0.83 Y	1.42	1.39	-1.8%	
PCB-79 33'45'-TeCB	28.11	7.35E+05	0.79 Y	1.47	1.45	-1.2%	
PCB-78 33'45'-TeCB	28.58	6.45E+05	0.75 Y	1.23	1.27	3.1%	
PCB-104 22'466'-PeCB	22.19	5.68E+05	0.67 Y	1.06	1.05	-0.4%	
PCB-96 22'366'-PeCB	22.50	4.80E+05	0.65 Y	0.90	0.89	-1.2%	
PCB-103 22'45'6'-PeCB	24.15	3.28E+05	0.62 Y	0.84	0.80	-5.1%	
PCB-94 22'356'-PeCB	24.33	2.92E+05	0.62 Y	0.73	0.71	-2.8%	
PCB-95 22'35'6'-PeCB	24.71	3.25E+05	0.67 Y	0.78	0.79	1.3%	
PCB-100/93 22'44'6/22'356'-PeCB	24.90	5.93E+05	0.63 Y	0.77	0.72	-7.1%	
PCB-102 22'456'-PeCB	25.01	3.44E+05	0.63 Y	0.83	0.83	0.2%	
PCB-98 22'34'6'-PeCB	25.07	3.07E+05	0.62 Y	0.75	0.74	-1.1%	
PCB-88 22'346'-PeCB	25.36	3.02E+05	0.63 Y	0.74	0.73	-1.4%	
PCB-91 22'34'6'-PeCB	25.44	3.31E+05	0.59 Y	0.83	0.80	-3.2%	
PCB-84 22'33'6'-PeCB	25.63	2.66E+05	0.60 Y	0.66	0.64	-2.5%	
PCB-89 22'346'-PeCB	26.03	2.86E+05	0.64 Y	0.69	0.69	0.1%	
PCB-121 23'45'6'-PeCB	26.39	4.25E+05	0.62 Y	1.06	1.03	-2.5%	
PCB-92 22'355'-PeCB	26.70	3.03E+05	0.58 Y	0.73	0.73	0.6%	
PCB-113/90/101 ...-PeCB	27.17	1.01E+06	0.60 Y	0.85	0.82	-4.0%	
PCB-83 22'33'5'-PeCB	27.59	2.44E+05	0.54 Y	0.65	0.59	-8.5%	
PCB-99 22'44'5'-PeCB	27.68	3.60E+05	0.60 Y	0.84	0.87	3.7%	
PCB-112 233'56'-PeCB	27.78	3.94E+05	0.62 Y	1.00	0.96	-4.1%	
PCB-109/119/86/97/125...-PeCB	28.12	2.10E+06	0.60 Y	0.87	0.85	-2.7%	
PCB-117 234'56'-PeCB	28.64	3.15E+05	0.60 Y	0.88	0.76	-12.7%	
PCB-116/85 23456/22'344'-PeCB	28.71	7.62E+05	0.64 Y	0.91	0.92	1.0%	
PCB-110 233'4'6'-PeCB	28.86	4.04E+05	0.61 Y	0.99	0.98	-1.0%	

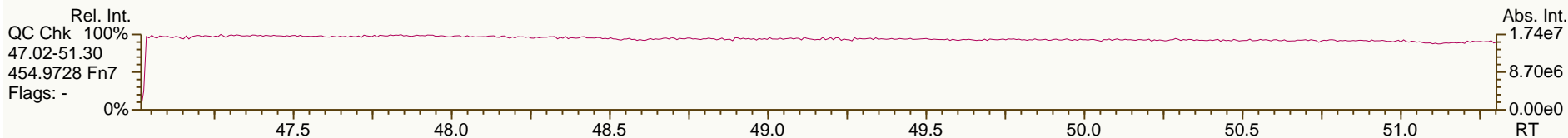
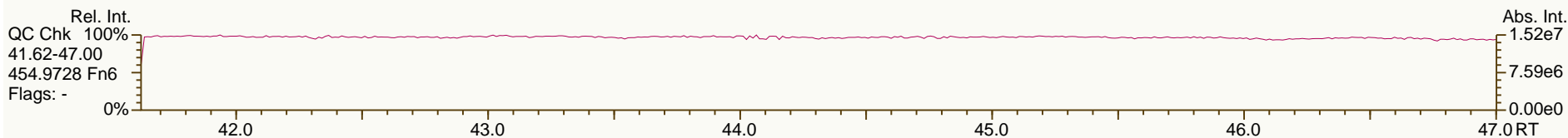
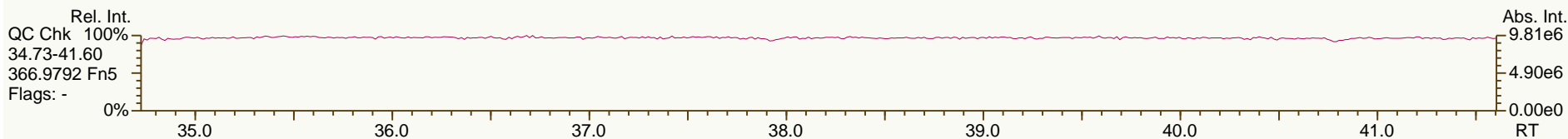
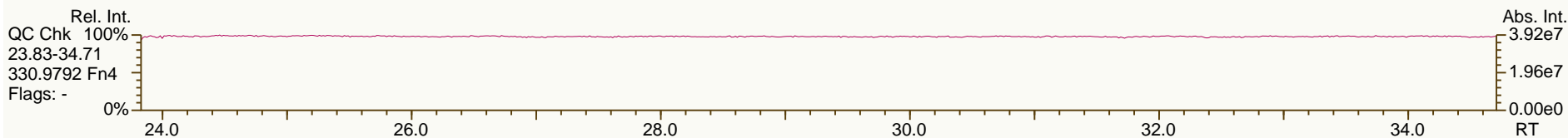
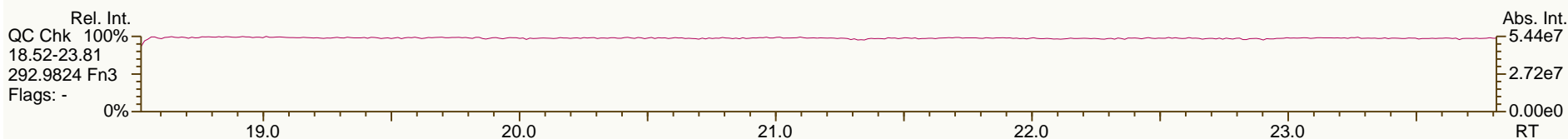
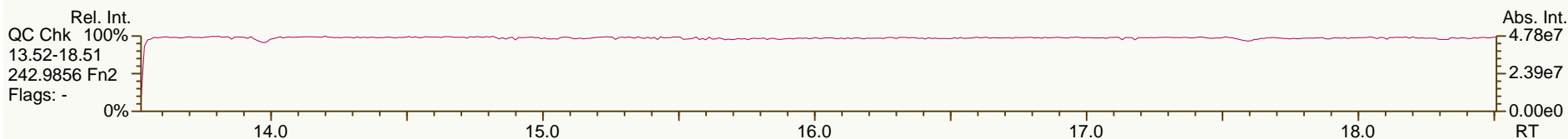
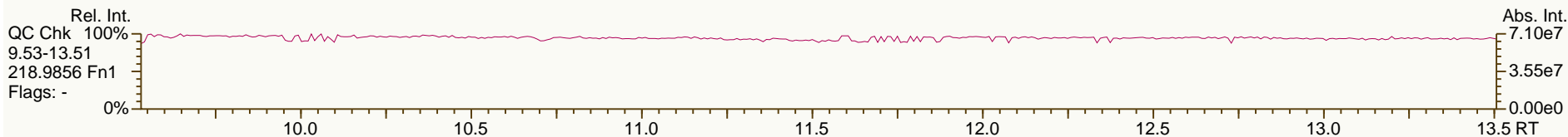
PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS1_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 14:36						
Datafile:	130911S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	28.92	4.09E+05	0.59 Y	1.01	0.99	-2.0%	
PCB-82 22'33'4-PeCB	29.12	2.48E+05	0.66 Y	0.62	0.60	-3.8%	
PCB-111 233'55'-PeCB	29.47	4.32E+05	0.58 Y	1.07	1.05	-2.1%	
PCB-120 23'455'-PeCB	29.85	4.16E+05	0.59 Y	1.07	1.01	-6.0%	
PCB-108/124 ...-PeCB	30.80	7.85E+05	0.60 Y	0.98	0.95	-3.3%	
PCB-107 233'4'5-PeCB	31.01	4.42E+05	0.59 Y	1.07	1.07	0.3%	
PCB-106 233'45-PeCB	31.20	3.92E+05	0.61 Y	1.00	0.95	-4.9%	
PCB-122 233'4'5'-PeCB	31.67	3.76E+05	0.61 Y	0.89	0.86	-3.4%	
PCB-127 33'455'-PeCB	33.62	4.14E+05	0.60 Y	0.98	0.96	-2.1%	
PCB-155 22'44'66'-HxCB	27.00	5.54E+05	1.38 Y	1.12	1.10	-1.8%	
PCB-152 22'3566'-HxCB	27.16	5.17E+05	1.12 Y	1.05	1.03	-2.2%	
PCB-150 22'34'66'-HxCB	27.31	5.30E+05	1.20 Y	1.07	1.05	-1.3%	
PCB-136 22'33'66'-HxCB	27.61	4.73E+05	1.32 Y	0.99	0.94	-5.1%	
PCB-145 22'3466'-HxCB	27.86	4.84E+05	1.24 Y	1.00	0.96	-3.3%	
PCB-148 22'34'56'-HxCB	29.14	3.87E+05	1.19 Y	1.03	1.03	0.4%	
PCB-151/135 ...-HxCB	29.66	7.47E+05	1.29 Y	1.00	0.99	-0.5%	
PCB-154 22'44'56'-HxCB	29.85	4.06E+05	1.21 Y	1.13	1.08	-3.9%	
PCB-144 22'345'6-HxCB	30.11	3.72E+05	1.29 Y	1.03	0.99	-3.6%	
PCB-147/149 ...-HxCB	30.41	7.36E+05	1.32 Y	1.03	0.98	-4.5%	
PCB-134 22'33'56-HxCB	30.59	3.33E+05	1.17 Y	0.84	0.89	6.3%	
PCB-143 22'3456'-HxCB	30.67	3.16E+05	1.23 Y	0.95	0.84	-11.1%	
PCB-139/140 ...-HxCB	30.92	7.74E+05	1.30 Y	1.05	1.03	-1.8%	
PCB-131 22'33'46-HxCB	31.09	3.12E+05	1.25 Y	0.87	0.83	-5.0%	
PCB-142 22'3456-HxCB	31.21	3.36E+05	1.16 Y	0.91	0.89	-1.7%	
PCB-132 22'33'46'-HxCB	31.47	3.35E+05	1.33 Y	0.92	0.89	-2.7%	
PCB-133 22'33'55'-HxCB	31.90	3.50E+05	1.25 Y	0.97	0.93	-3.6%	
PCB-165 233'55'6-HxCB	32.24	4.47E+05	1.23 Y	1.19	1.19	-0.4%	
PCB-146 22'34'55'-HxCB	32.44	4.10E+05	1.30 Y	1.08	1.09	0.9%	
PCB-161 233'45'6-HxCB	32.55	5.31E+05	1.19 Y	1.34	1.41	5.1%	
PCB-153/168 ...-HxCB	32.98	9.30E+05	1.19 Y	1.26	1.24	-1.5%	
PCB-141 22'3455'-HxCB	33.12	3.63E+05	1.29 Y	0.98	0.97	-1.4%	
PCB-130 22'33'45'-HxCB	33.47	3.43E+05	1.20 Y	0.88	0.91	4.2%	
PCB-137 22'344'5-HxCB	33.65	3.90E+05	1.22 Y	1.07	1.04	-3.1%	
PCB-164 233'4'5'6-HxCB	33.74	4.92E+05	1.18 Y	1.29	1.31	1.5%	
PCB-163/138/129 ...-HxCB	34.02	1.14E+06	1.22 Y	1.05	1.01	-3.6%	
PCB-160 233'456-HxCB	34.14	4.74E+05	1.26 Y	1.26	1.26	0.6%	
PCB-158 233'44'6-HxCB	34.34	5.23E+05	1.34 Y	1.40	1.39	-0.4%	
PCB-128/166 ...-HxCB	35.05	6.64E+05	1.25 Y	0.89	0.84	-4.9%	
PCB-159 233'455'-HxCB	35.90	3.92E+05	1.24 Y	1.04	1.00	-4.3%	
PCB-162 233'4'55'-HxCB	36.14	3.73E+05	1.17 Y	1.04	0.95	-8.8%	
PCB-188 22'34'566'-HpCB	31.82	5.47E+05	0.98 Y	0.97	0.97	0.5%	
PCB-179 22'33'566'-HpCB	32.11	4.95E+05	1.03 Y	0.89	0.88	-1.4%	
PCB-184 22'344'66'-HpCB	32.55	5.03E+05	1.07 Y	0.87	0.90	2.9%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS1_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 14:36						
Datafile:	130911S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	32.85	5.20E+05	1.00 Y	0.97	0.93	-4.0%	
PCB-186 22'34566'-HpCB	33.23	5.33E+05	1.06 Y	0.93	0.95	1.7%	
PCB-178 22'33'55'6'-HpCB	34.39	3.86E+05	1.06 Y	0.67	0.69	2.1%	
PCB-175 22'33'45'6'-HpCB	34.93	3.29E+05	0.98 Y	0.97	0.94	-3.5%	
PCB-187 22'34'55'6'-HpCB	35.15	3.48E+05	1.05 Y	1.02	0.99	-2.4%	
PCB-182 22'344'56'-HpCB	35.32	3.45E+05	1.05 Y	1.05	0.98	-6.3%	
PCB-183 22'344'5'6'-HpCB	35.67	3.29E+05	0.96 Y	1.07	0.94	-12.0%	
PCB-185 22'3455'6'-HpCB	35.75	3.23E+05	1.17 Y	0.96	0.92	-3.6%	
PCB-174 22'33'456'-HpCB	35.86	2.93E+05	0.98 Y	0.86	0.84	-2.3%	
PCB-177 22'33'45'6'-HpCB	36.23	2.77E+05	0.93 Y	0.83	0.79	-5.0%	
PCB-181 22'344'56'-HpCB	36.56	3.39E+05	1.15 Y	1.00	0.97	-2.9%	
PCB-171/173 ...-HpCB	36.75	5.85E+05	1.11 Y	0.86	0.83	-3.4%	
PCB-172 22'33'455'-HpCB	38.13	2.92E+05	1.05 Y	0.87	0.83	-4.4%	
PCB-192 233'455'6'-HpCB	38.36	4.11E+05	1.05 Y	1.19	1.17	-1.1%	
PCB-180/193 ...-HpCB	38.64	7.62E+05	1.08 Y	1.11	1.09	-2.1%	
PCB-191 233'44'5'6'-HpCB	38.97	4.41E+05	1.03 Y	1.23	1.26	2.0%	
PCB-170 22'33'44'5'-HpCB	39.73	3.02E+05	1.05 Y	1.01	1.01	0.2%	
PCB-190 233'44'56'-HpCB	40.17	4.18E+05	0.91 Y	1.42	1.40	-1.5%	
PCB-202 22'33'55'66'-OcCB	36.34	3.86E+05	0.98 Y	0.83	0.83	-0.1%	
PCB-201 22'33'45'66'-OcCB	37.11	4.40E+05	0.93 Y	0.94	0.95	0.2%	
PCB-204 22'344'566'-OcCB	37.68	3.87E+05	0.84 Y	0.87	0.83	-4.6%	
PCB-197 22'33'44'66'-OcCB	37.87	4.53E+05	0.85 Y	0.97	0.97	-0.2%	
PCB-200 22'33'4566'-OcCB	37.96	4.27E+05	0.91 Y	0.89	0.92	3.3%	
PCB-198/199 ...-OcCB	40.30	5.94E+05	0.93 Y	0.66	0.64	-2.6%	
PCB-196 22'33'44'56'-OcCB	40.87	3.24E+05	0.95 Y	0.70	0.70	-1.1%	
PCB-203 22'344'55'6'-OcCB	41.04	3.43E+05	0.87 Y	0.74	0.74	0.0%	
PCB-195 22'33'44'56'-OcCB	42.14	2.39E+05	0.91 Y	0.78	0.77	-0.9%	
PCB-194 22'33'44'55'-OcCB	44.11	2.55E+05	0.92 Y	0.85	0.83	-2.6%	
PCB-205 233'44'55'6'-OcCB	44.51	3.07E+05	0.91 Y	1.08	1.00	-7.8%	
PCB-208 22'33'455'66'-NoCB	41.95	3.44E+05	0.75 Y	0.99	0.98	-1.1%	
PCB-207 22'33'44'566'-NoCB	42.73	3.45E+05	0.75 Y	1.03	0.98	-4.1%	
PCB-206 22'33'44'55'6'-NoCB	45.97	2.52E+05	0.79 Y	0.83	0.82	-1.0%	

SGS-AP ID: CS1_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-5
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 51

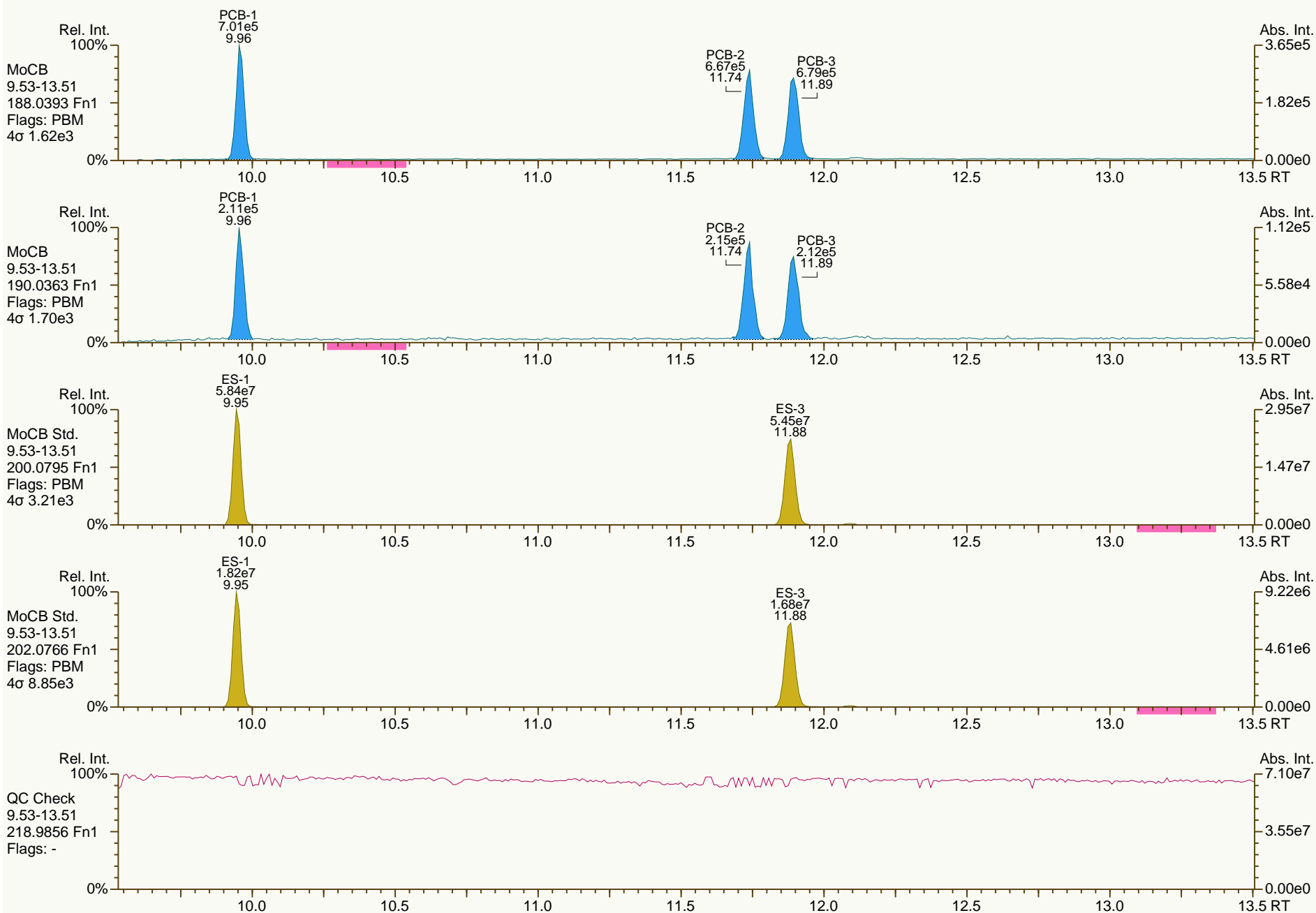
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SGS-AP ID: CS1_130911_PCB_SB
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VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 51

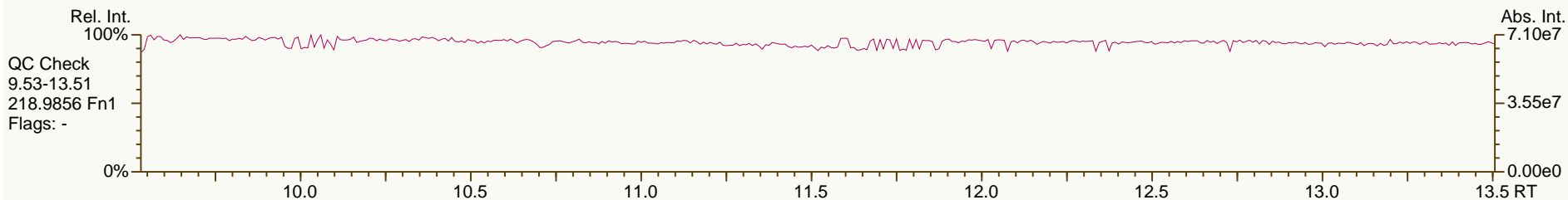
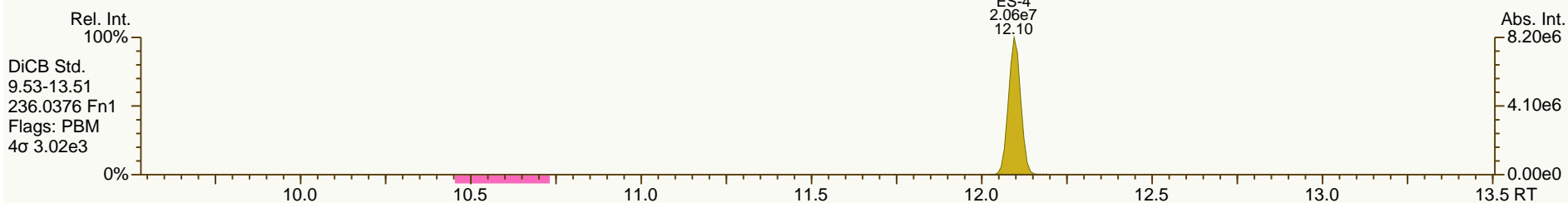
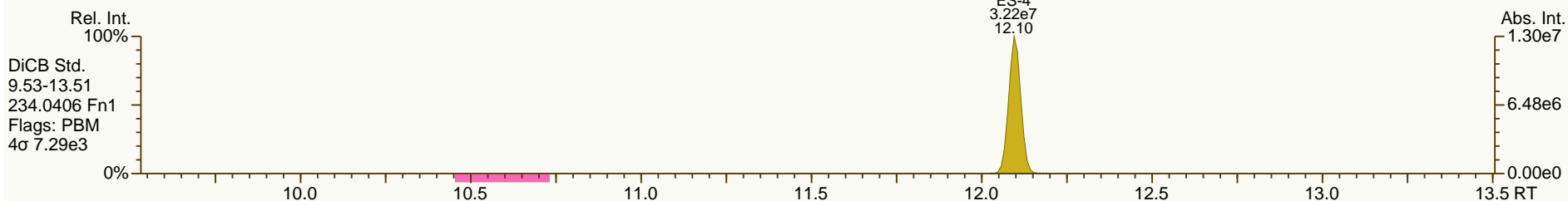
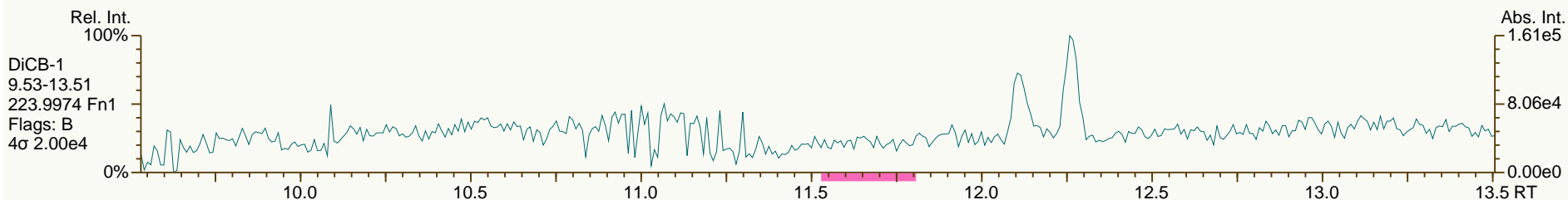
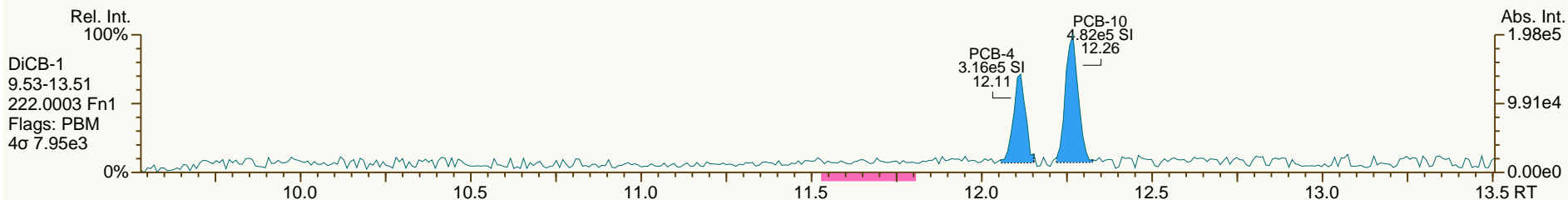
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SGS-AP ID: CS1_130911_PCB_SB
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Sample ID: SIL 13-40-5
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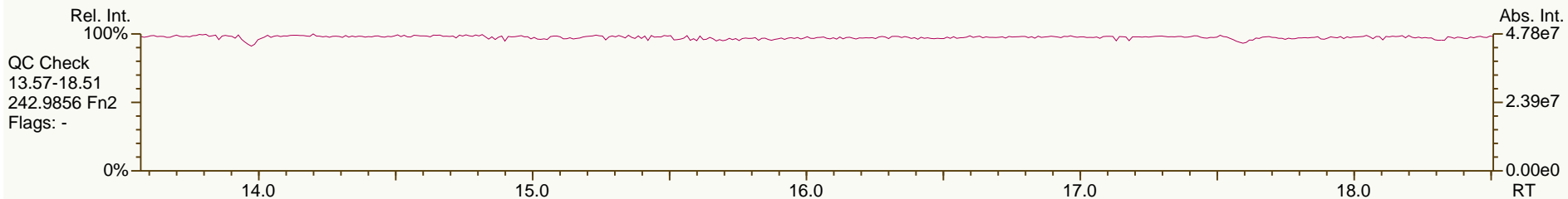
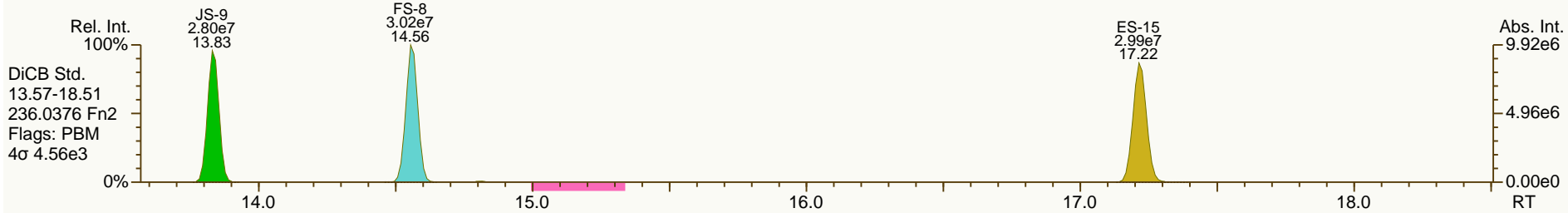
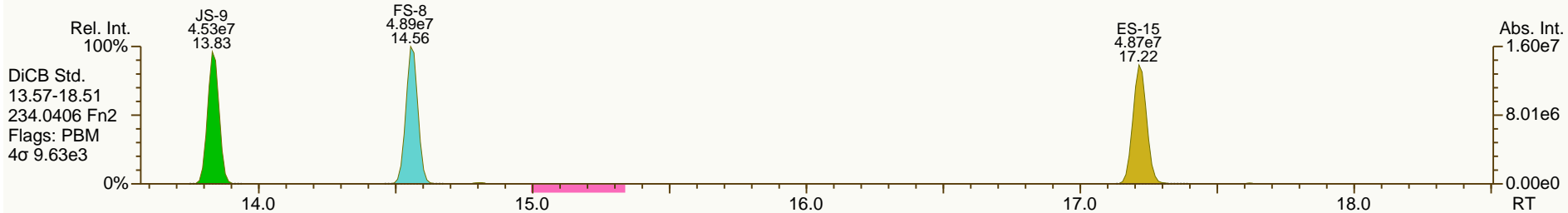
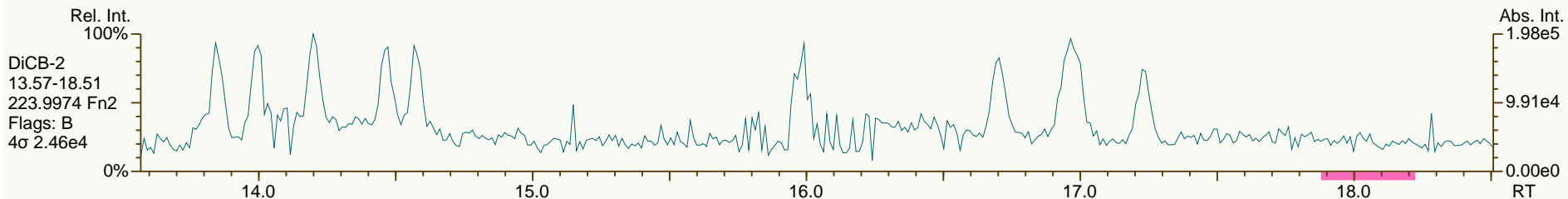
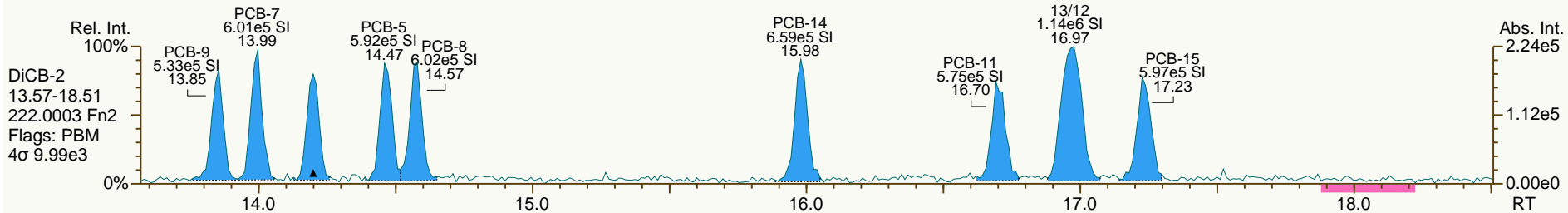
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SGS-AP ID: CS1_130911_PCB_SB
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 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 51

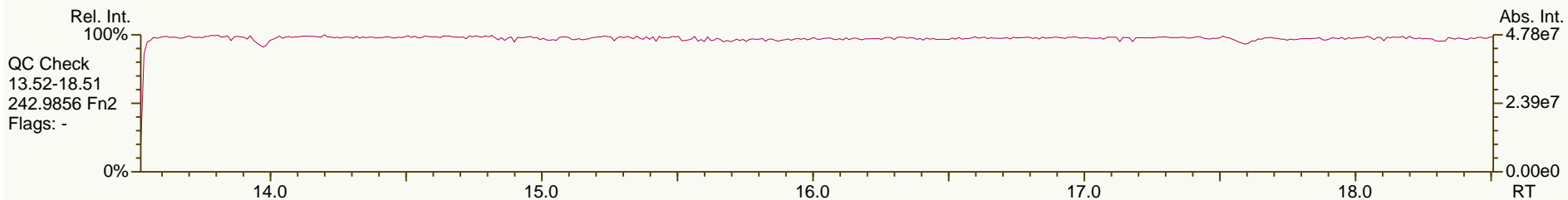
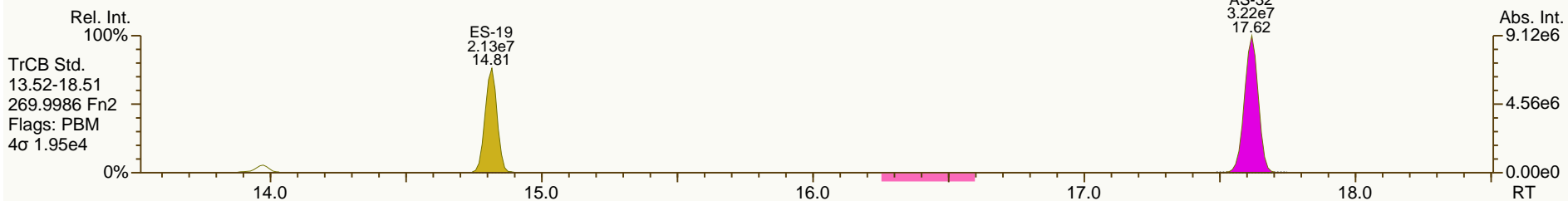
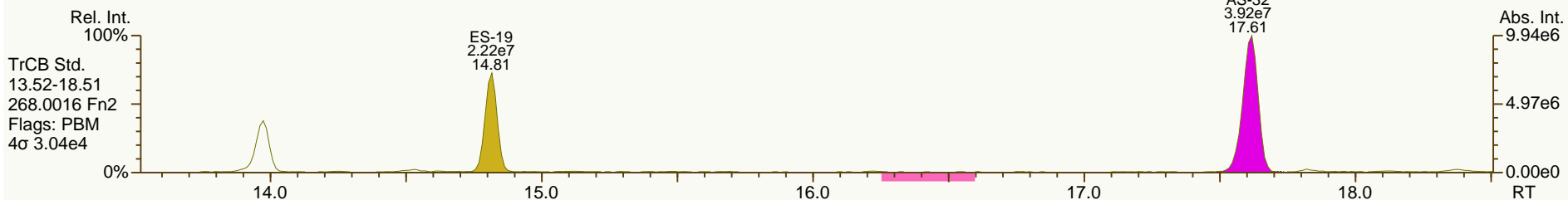
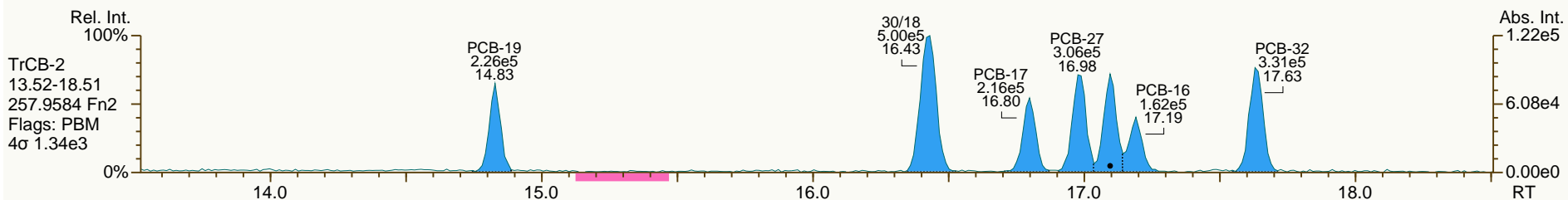
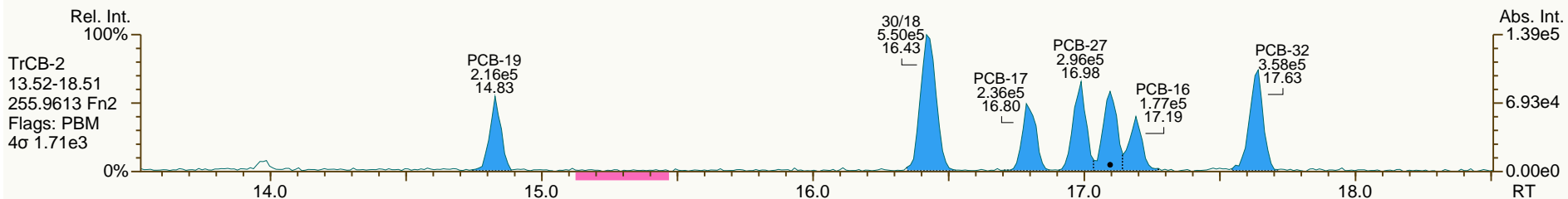
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SGS-AP ID: CS1_130911_PCB_SB
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Sample ID: SIL 13-40-5
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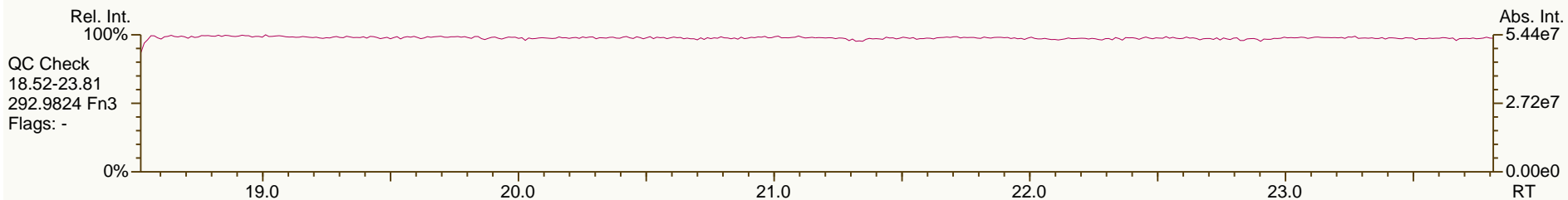
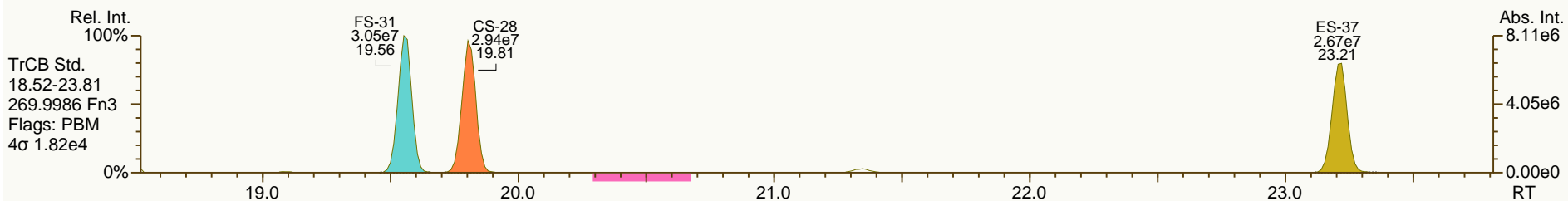
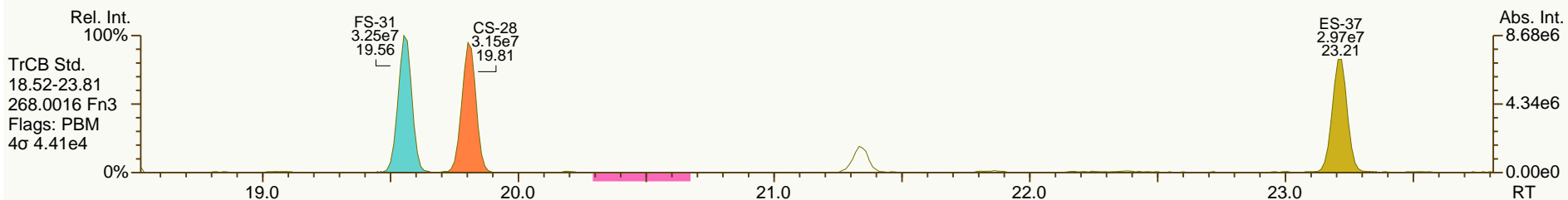
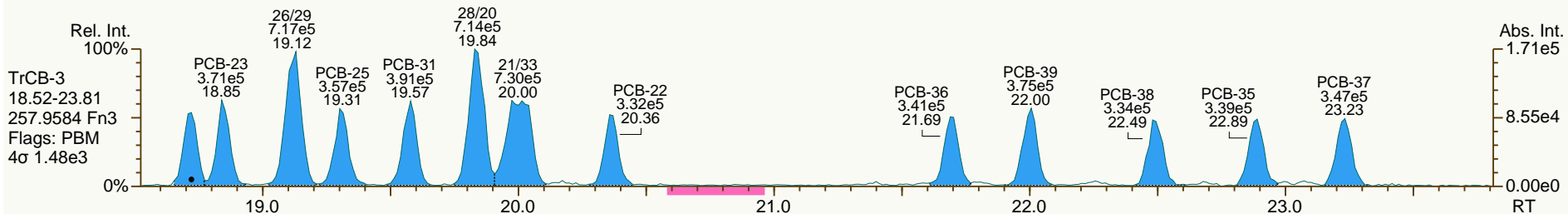
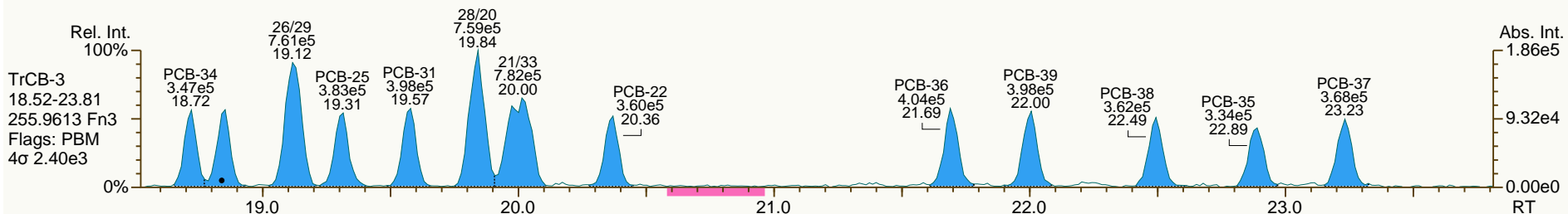
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SGS-AP ID: CS1_130911_PCB_SB
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Sample ID: SIL 13-40-5
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SGS-AP ID: CS1_130911_PCB_SB
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Sample ID: SIL 13-40-5
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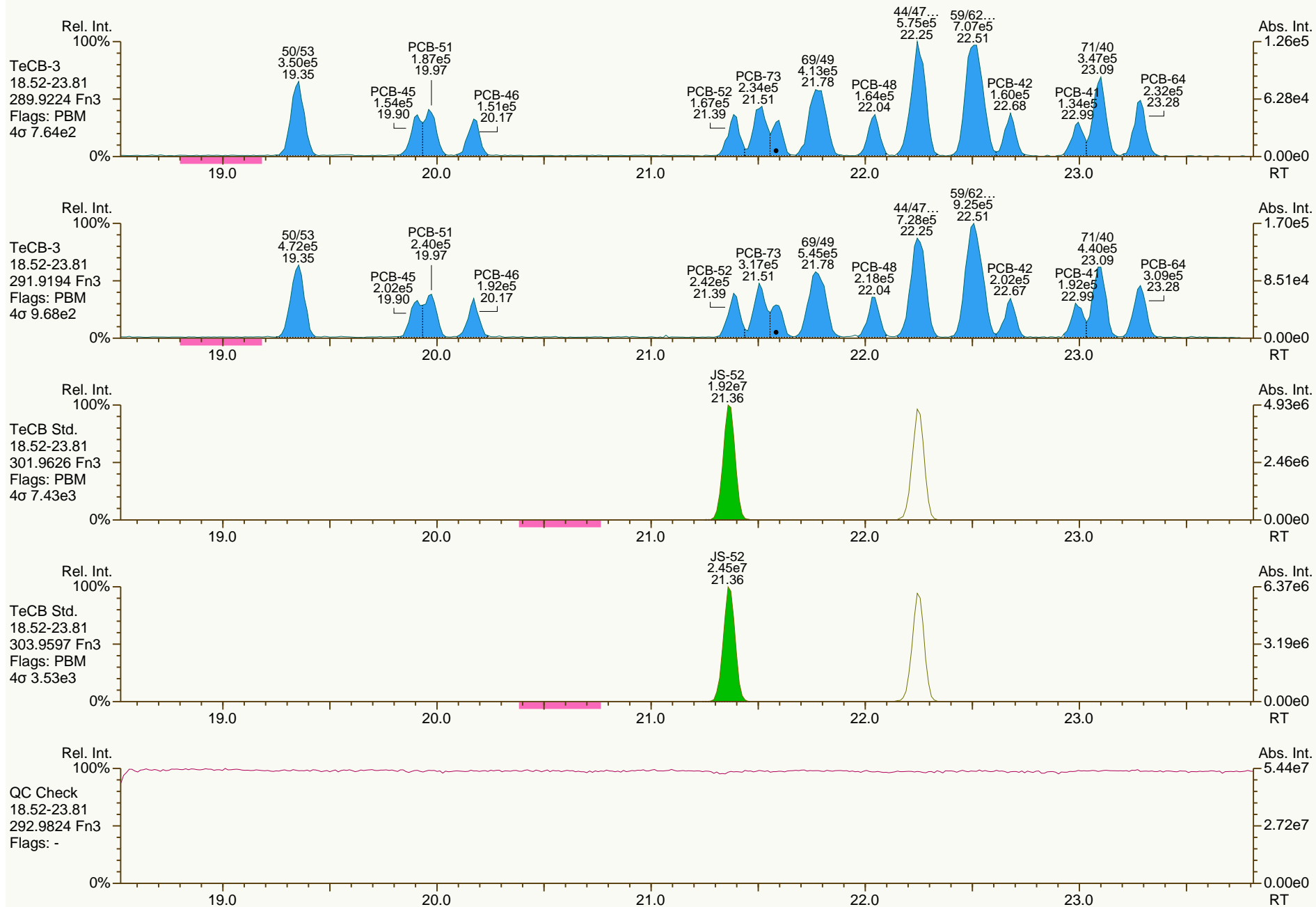
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Sample ID: SIL 13-40-5
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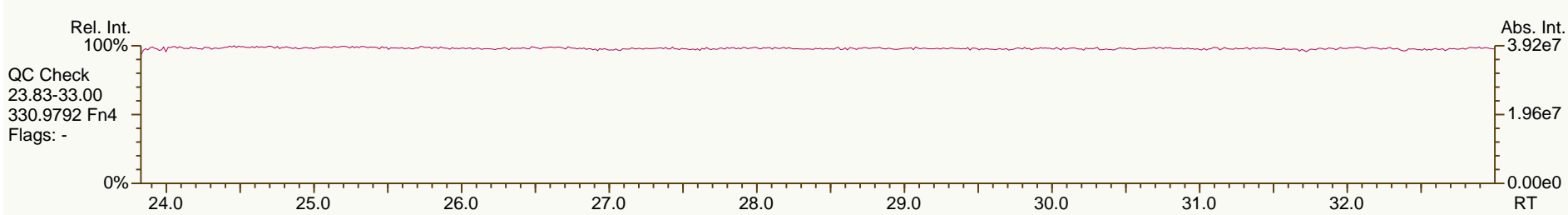
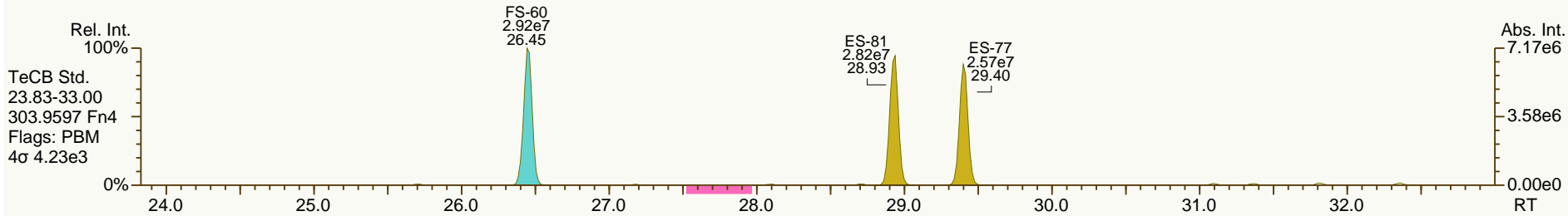
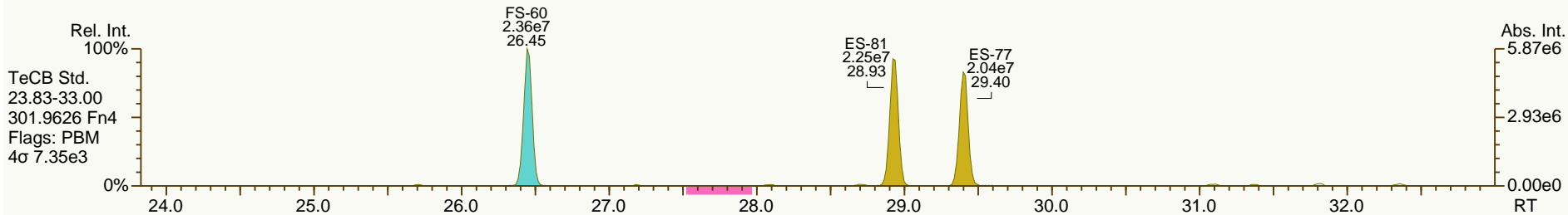
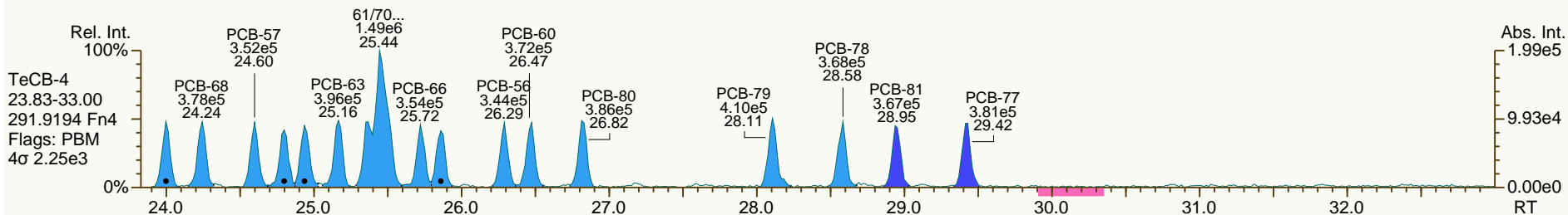
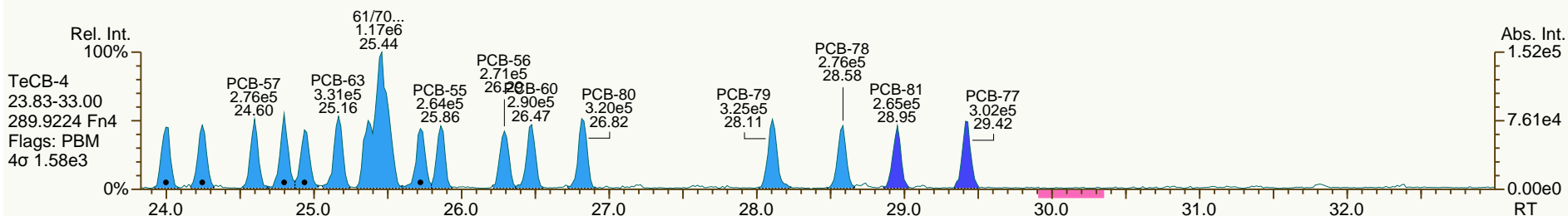
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SGS-AP ID: CS1_130911_PCB_SB
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Sample ID: SIL 13-40-5
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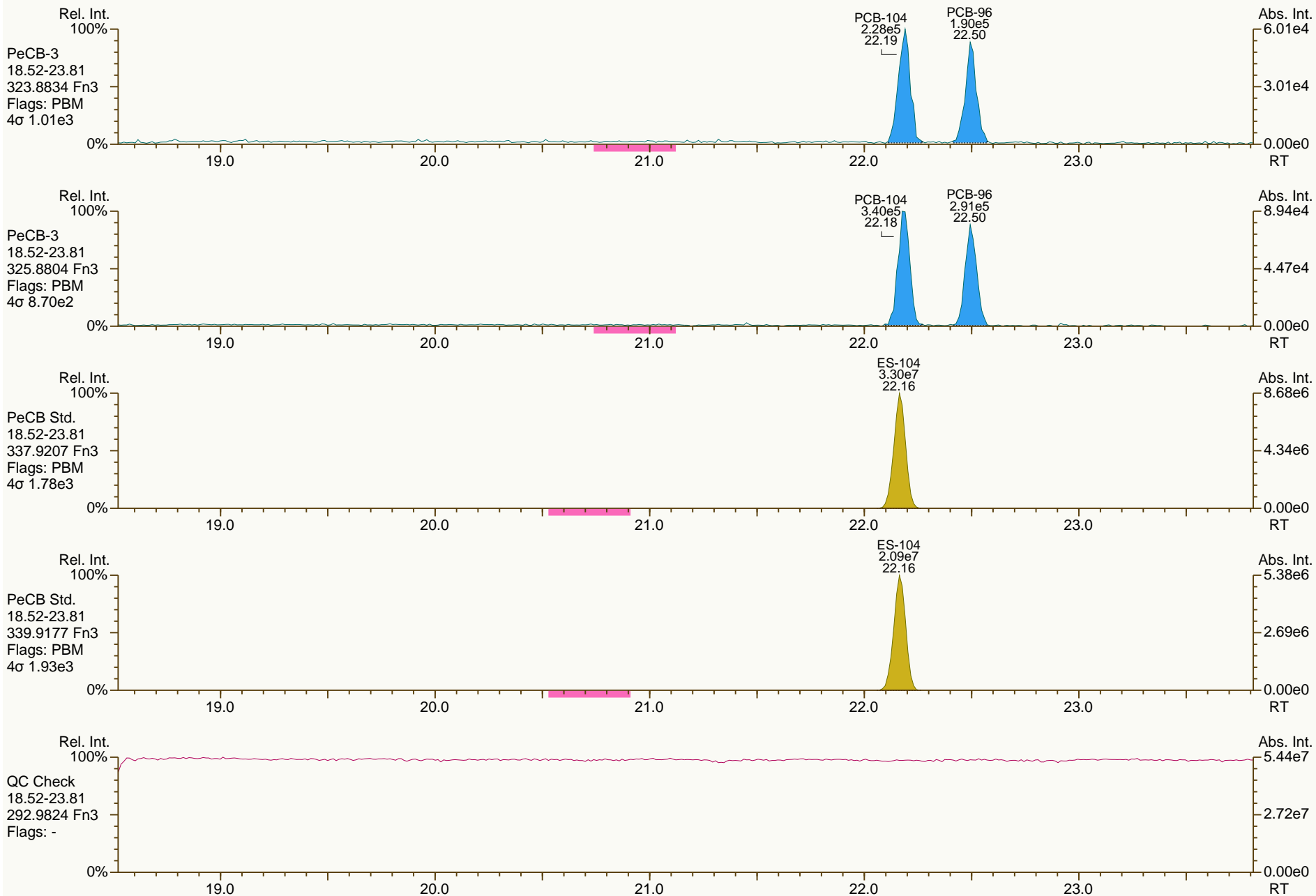
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SGS-AP ID: CS1_130911_PCB_SB
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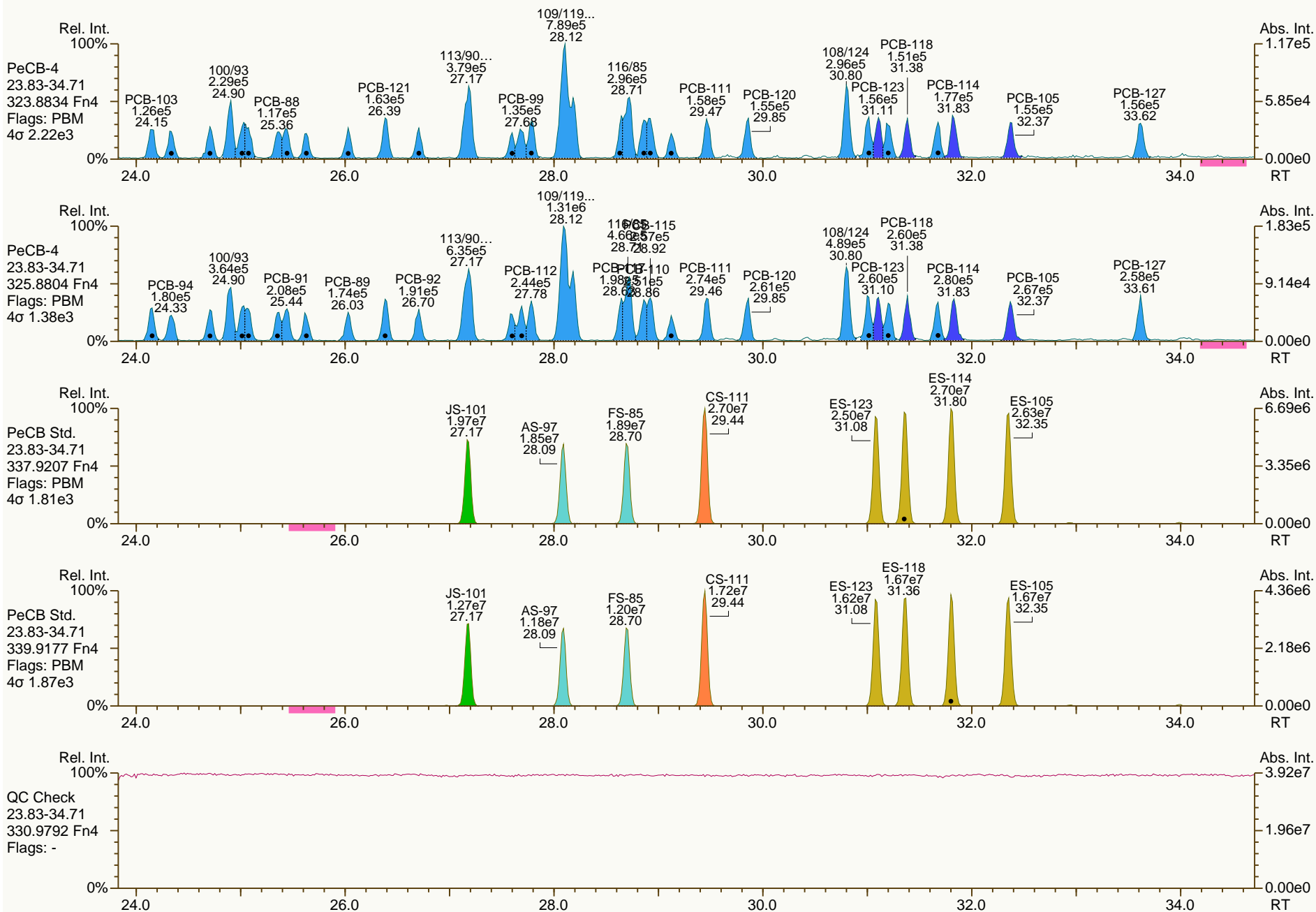
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SGS-AP ID: CS1_130911_PCB_SB
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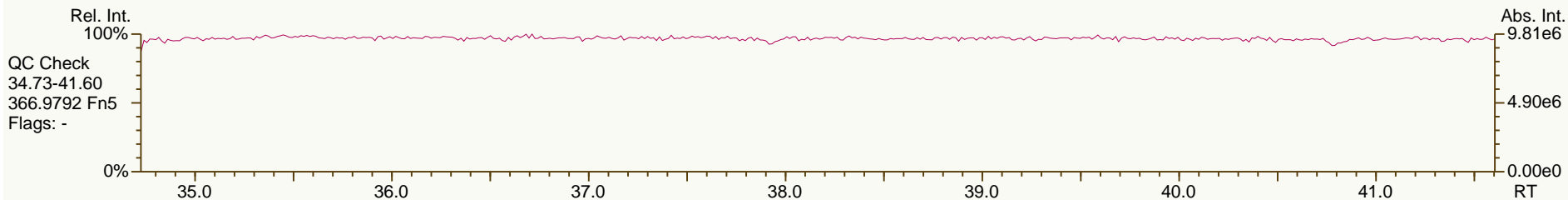
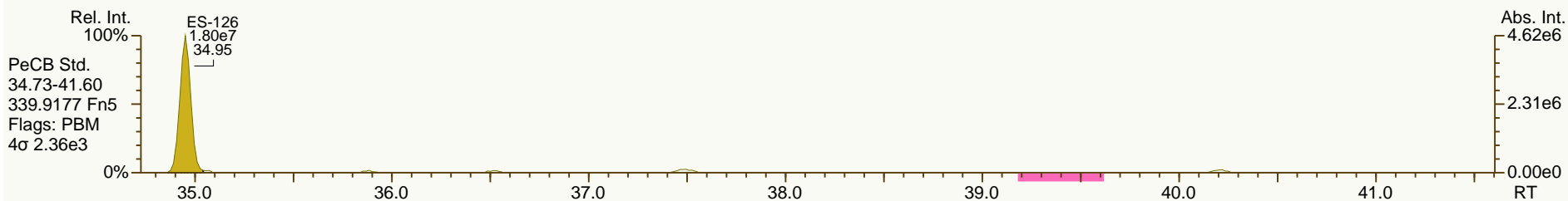
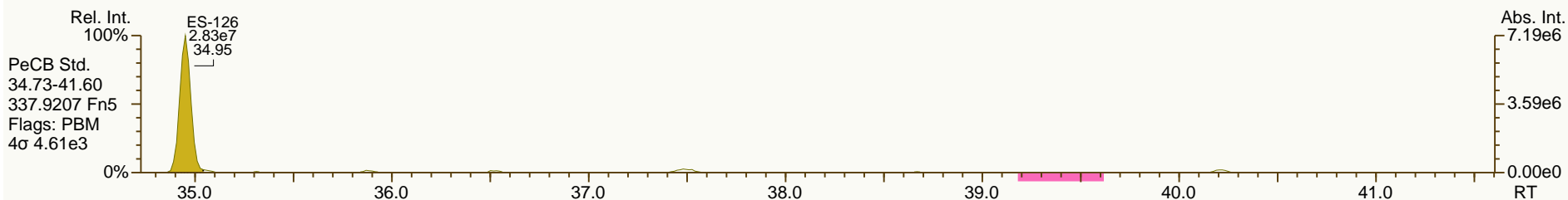
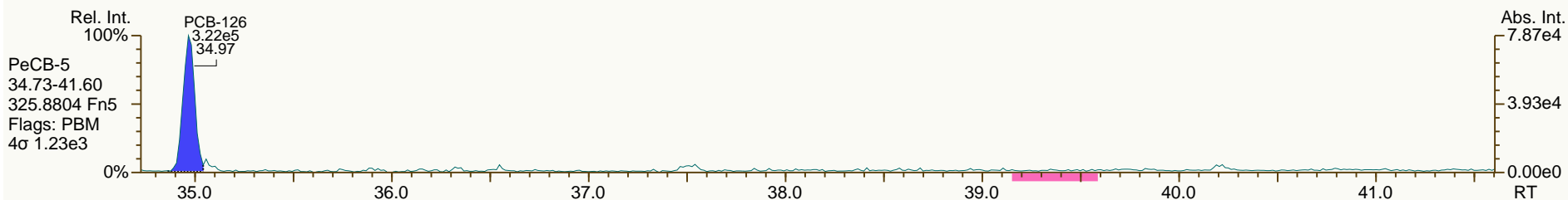
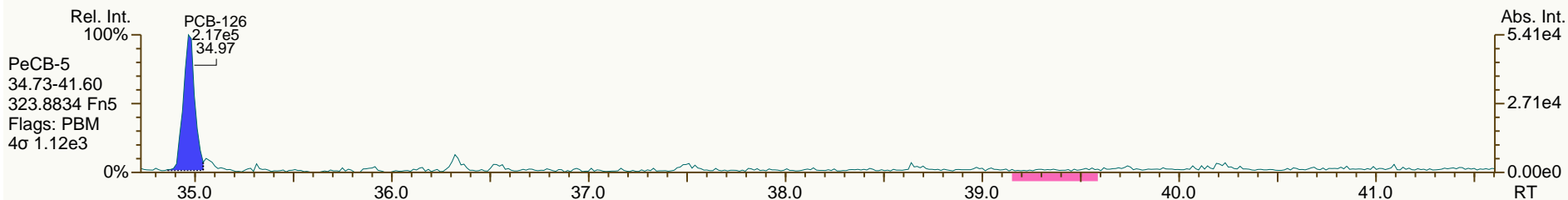
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SGS-AP ID: CS1_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-5
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 51

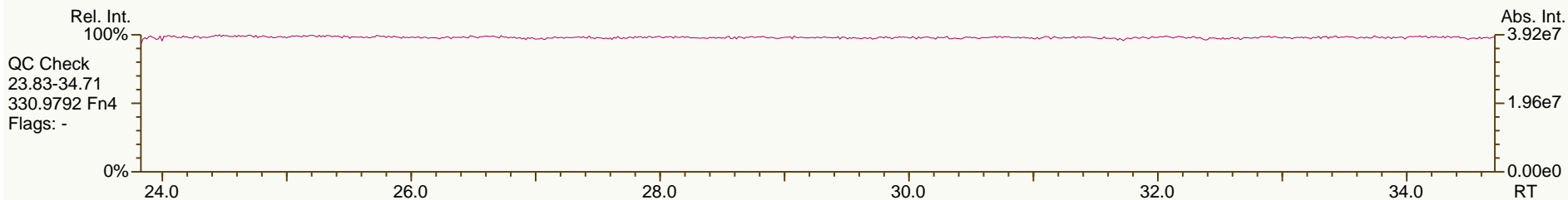
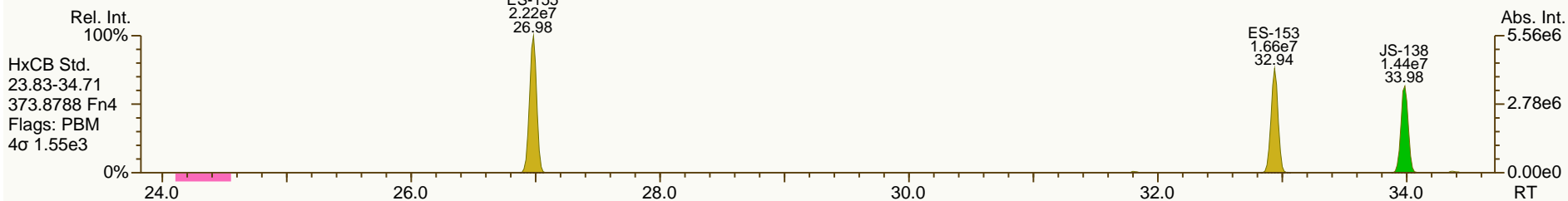
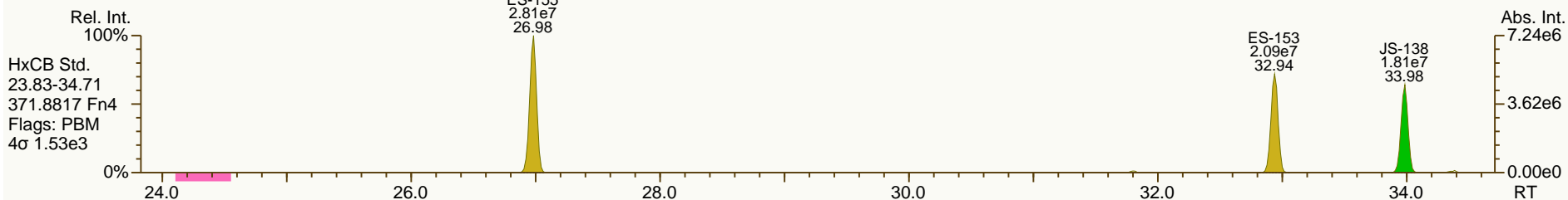
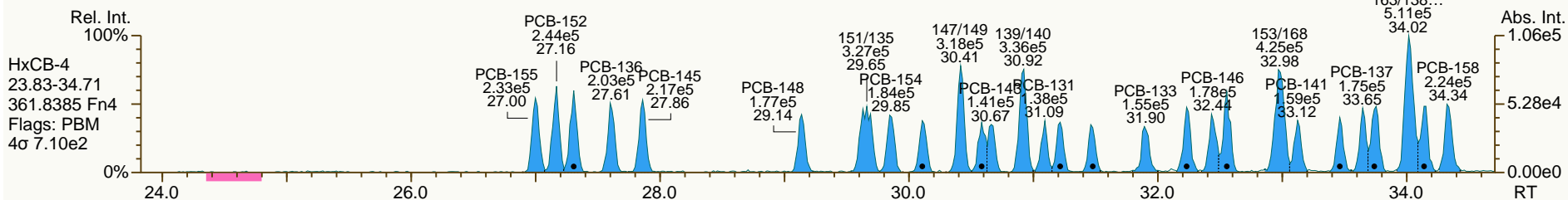
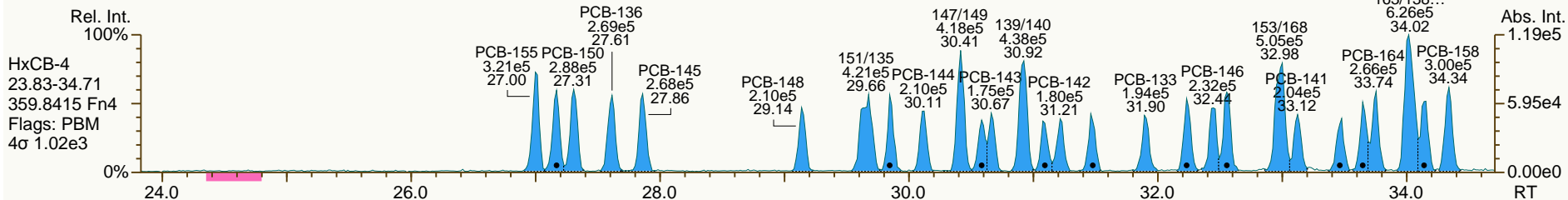
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SGS-AP ID: CS1_130911_PCB_SB
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Sample ID: SIL 13-40-5
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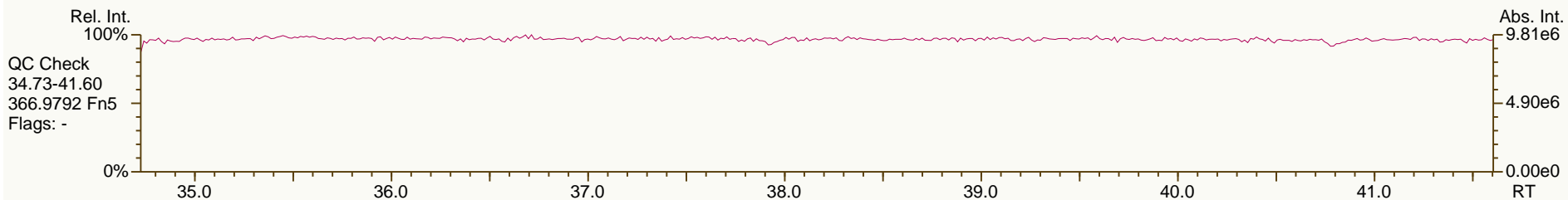
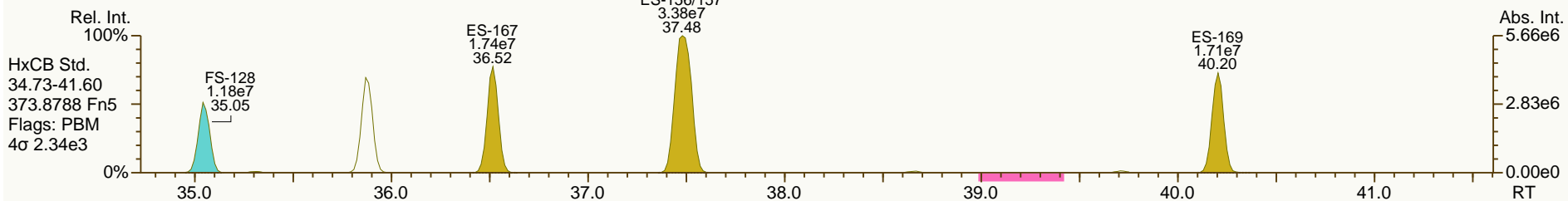
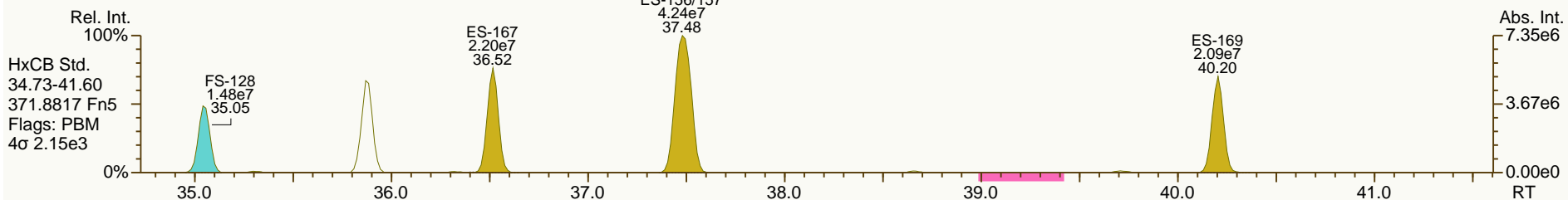
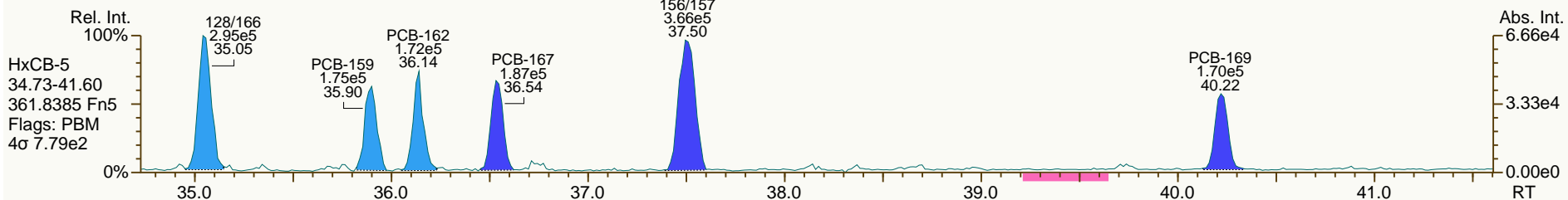
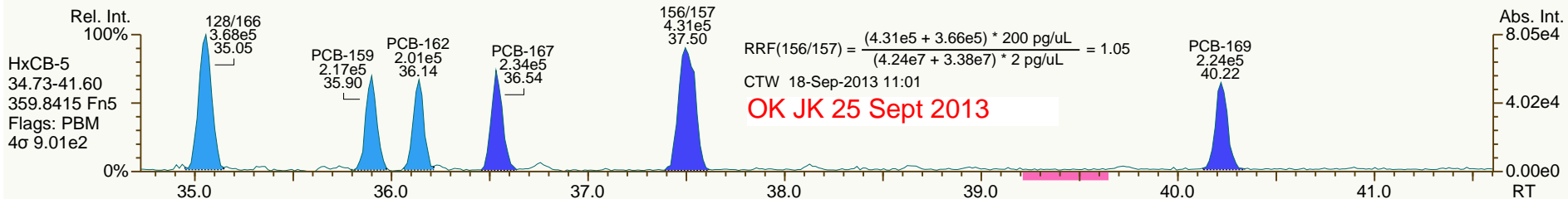
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SGS-AP ID: CS1_130911_PCB_SB
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Sample ID: SIL 13-40-5
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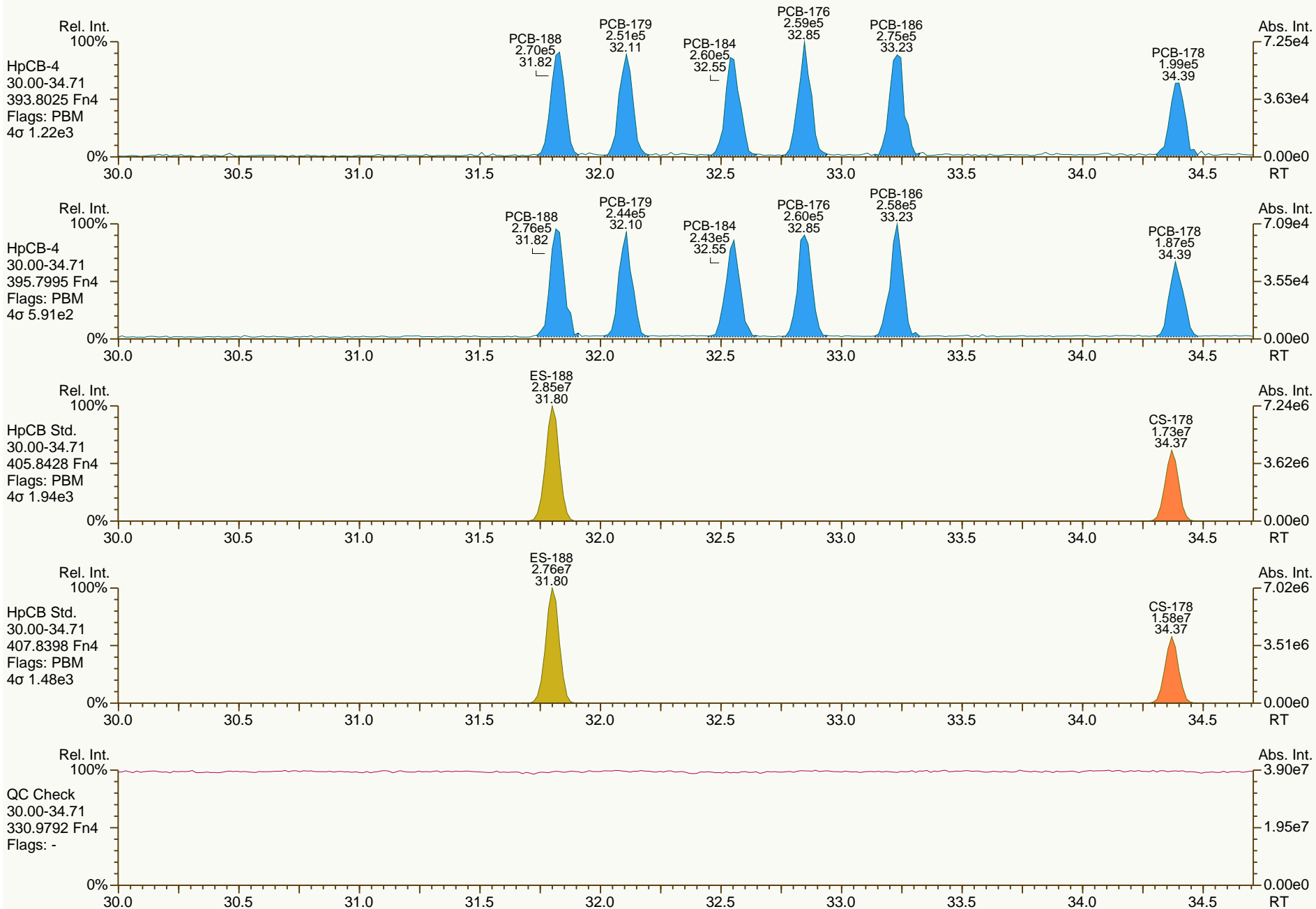
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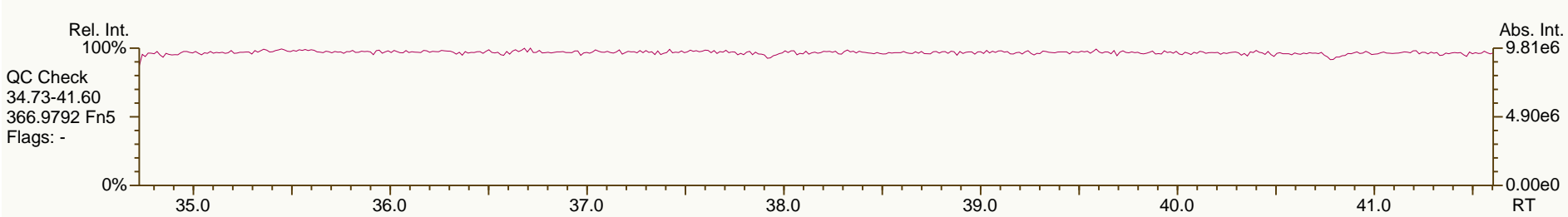
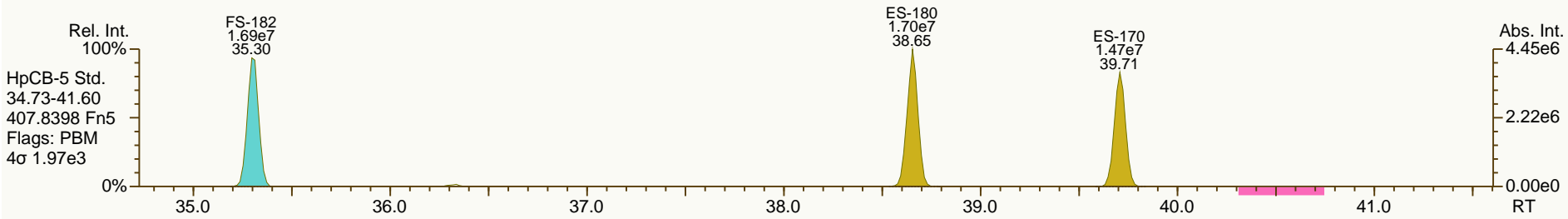
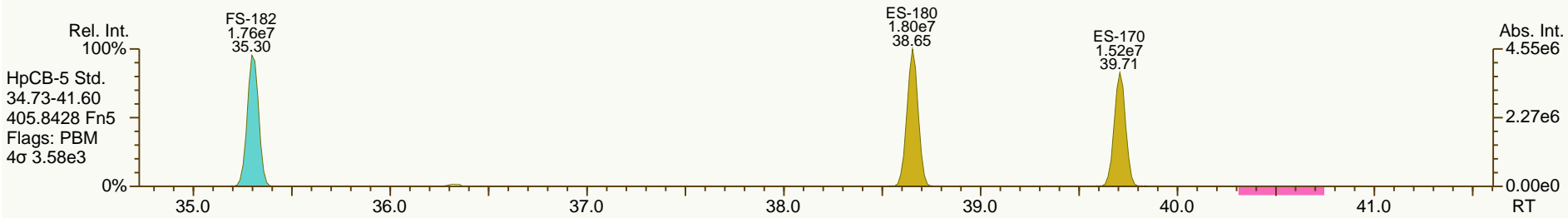
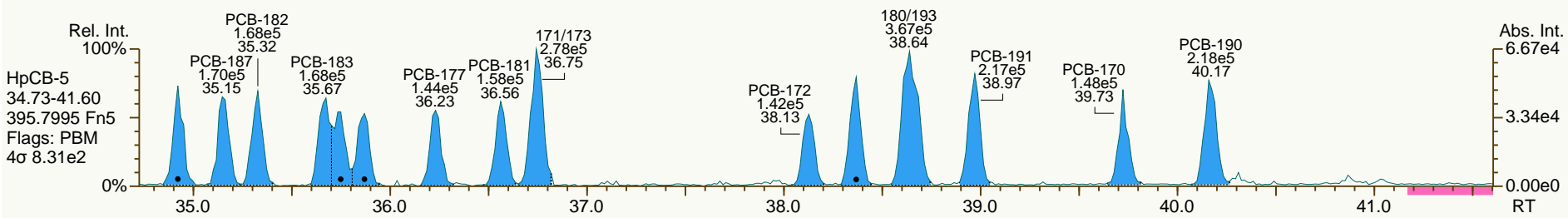
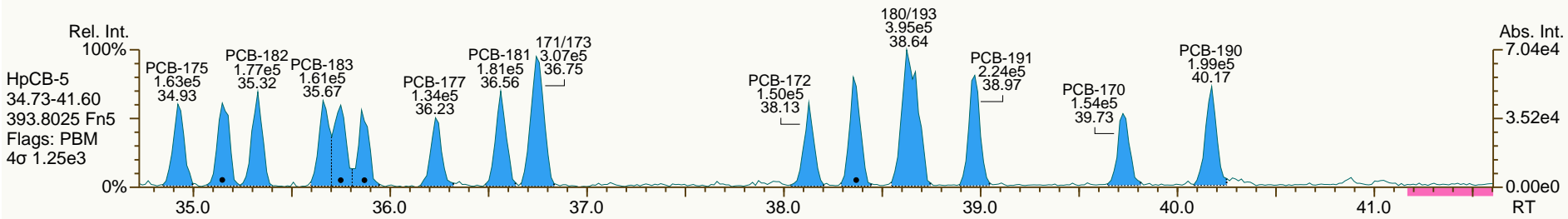
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 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 51

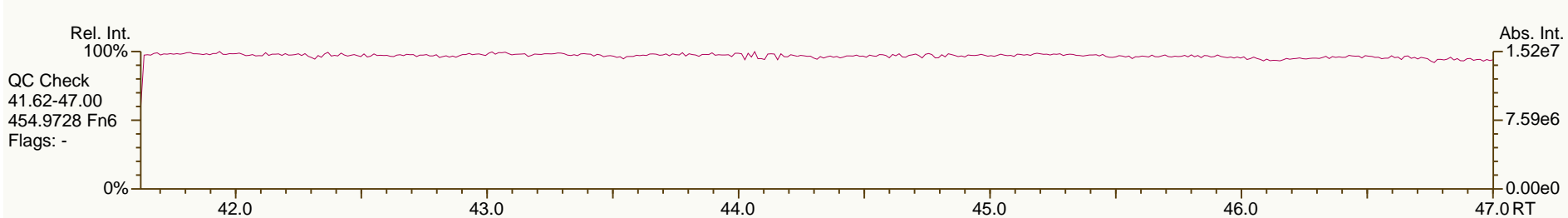
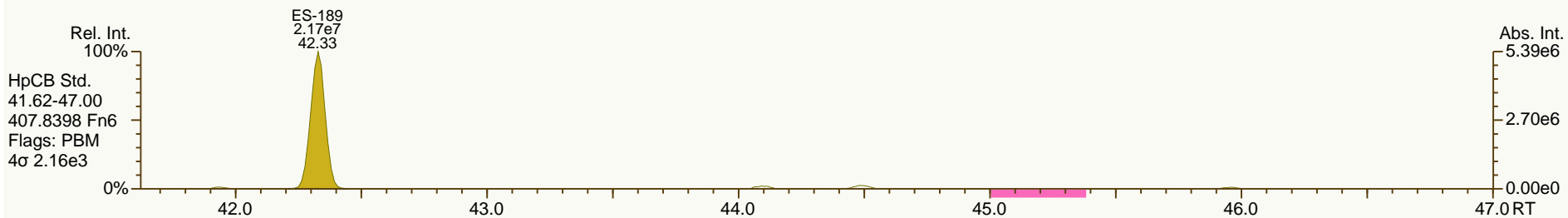
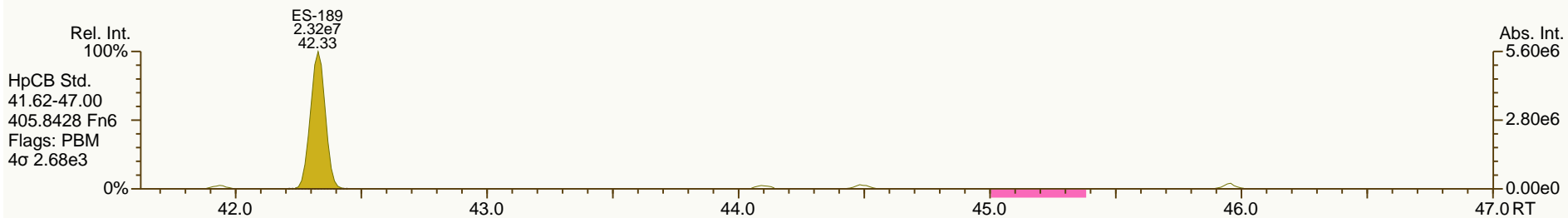
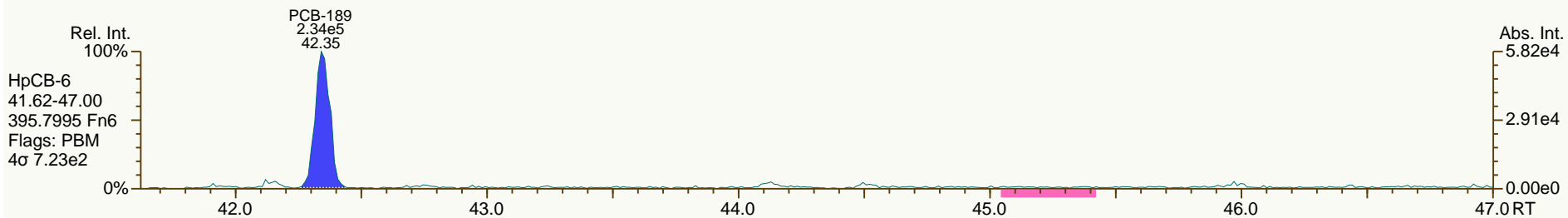
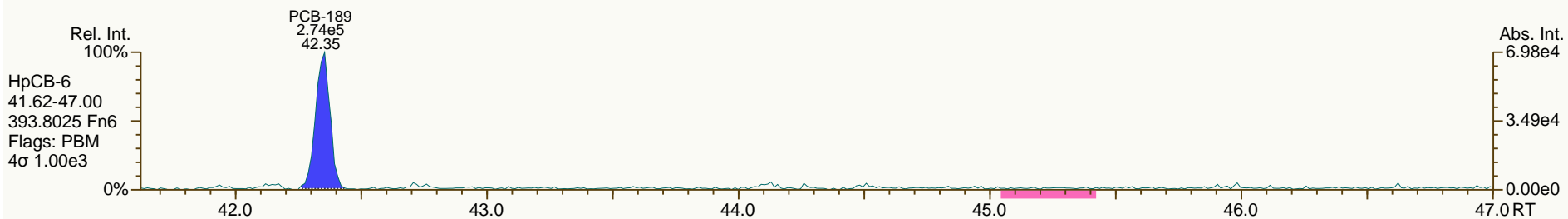
Acq: 11-Sep-2013 14:36:37
 User: CTW Datafile: 130911S04



SGS-AP ID: CS1_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-5
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 51

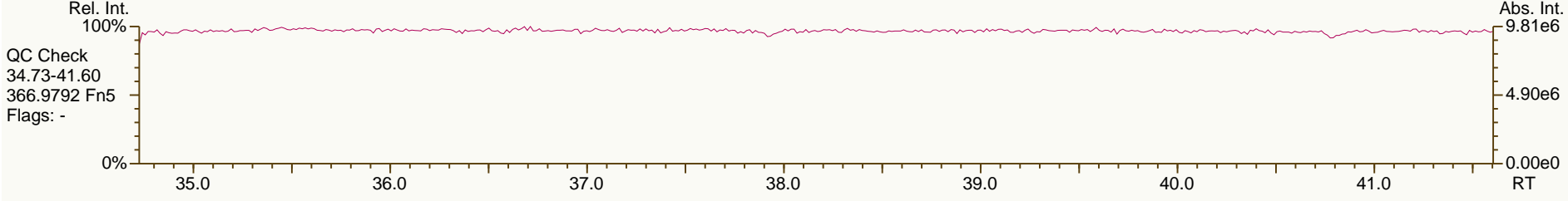
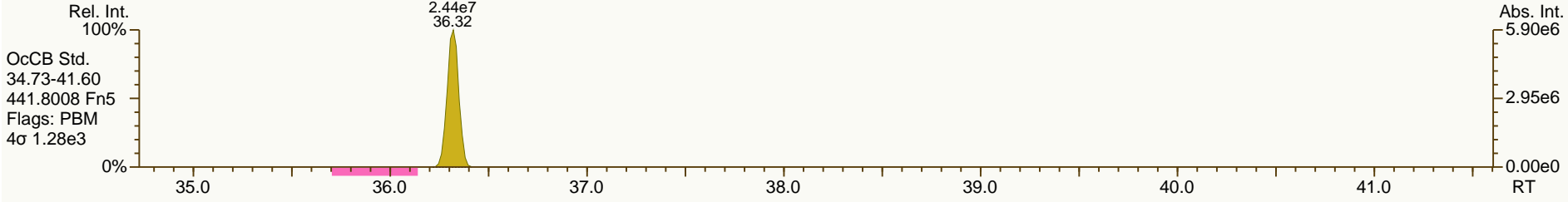
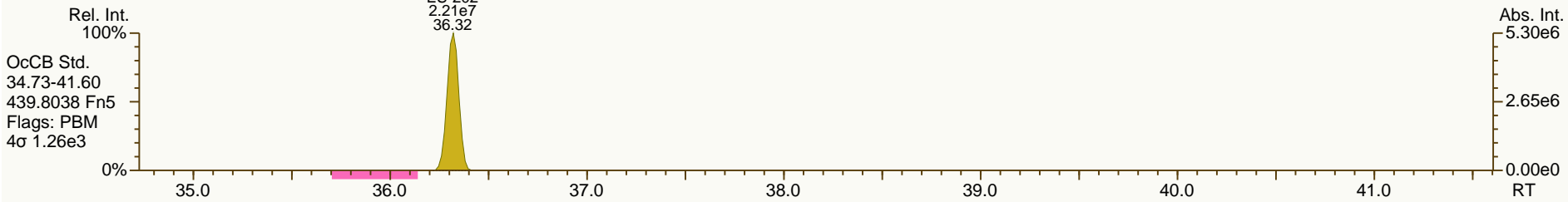
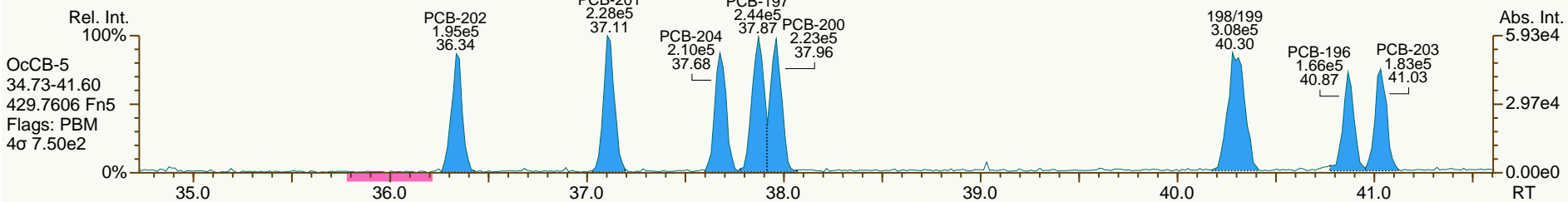
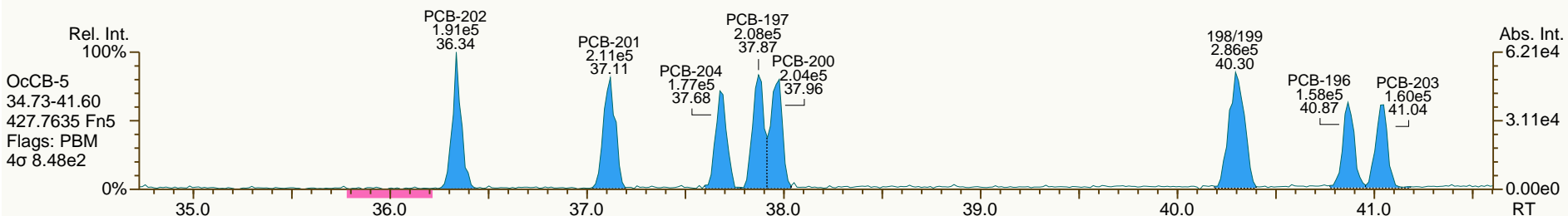
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 User: CTW Datafile: 130911S04



SGS-AP ID: CS1_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-5
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 51

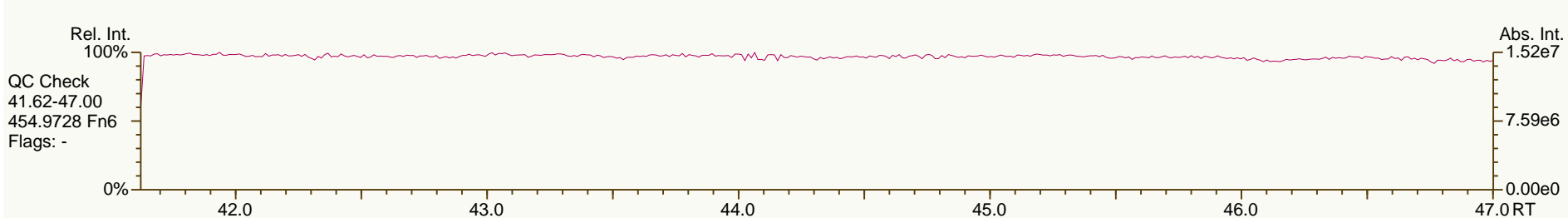
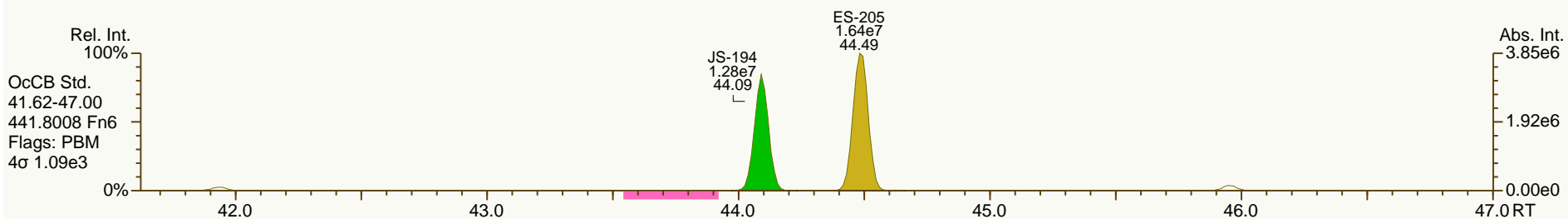
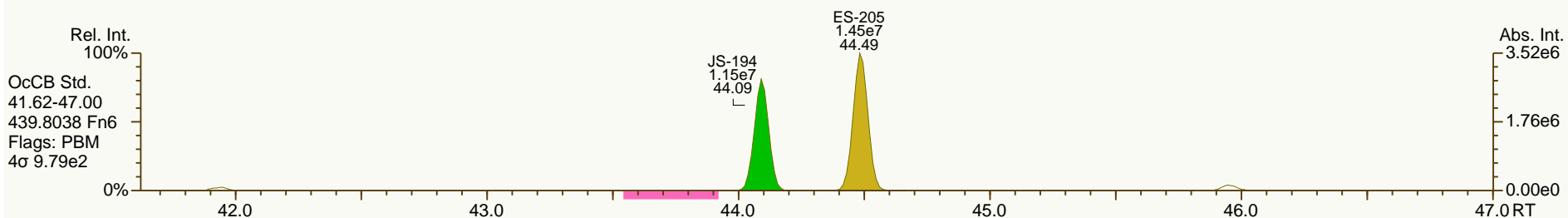
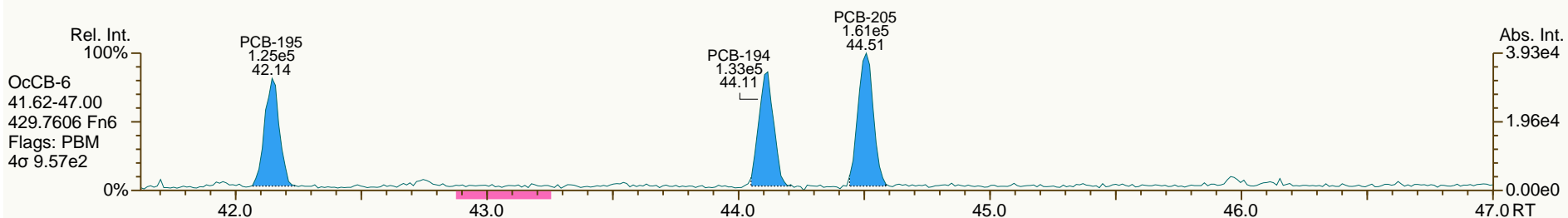
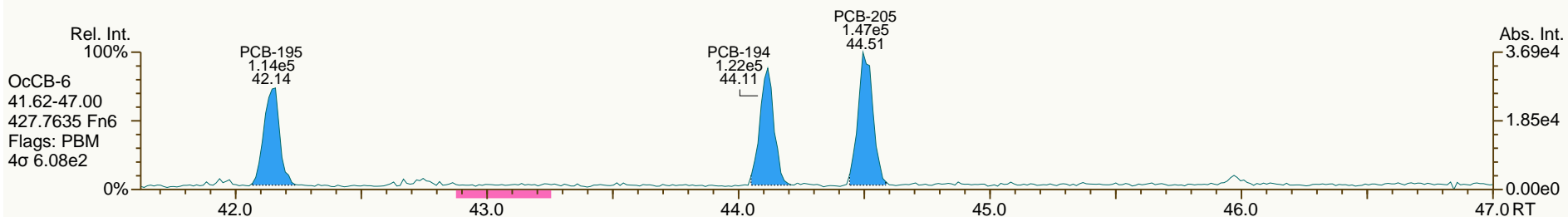
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SGS-AP ID: CS1_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-5
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 51

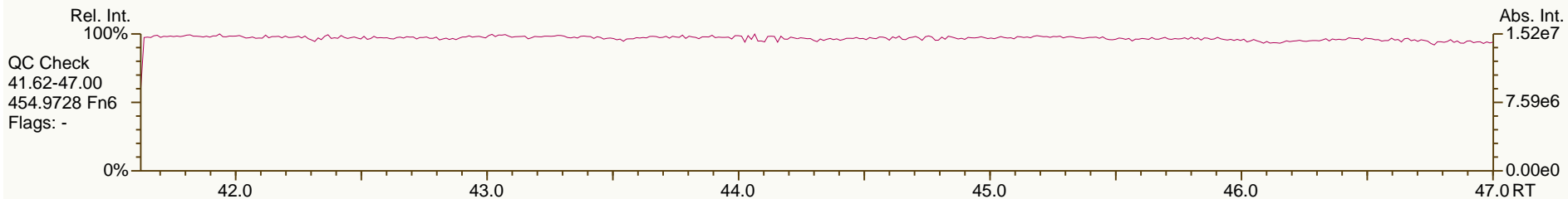
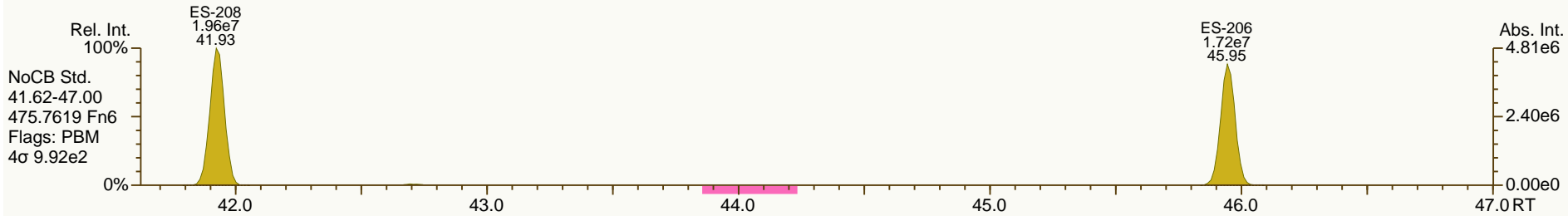
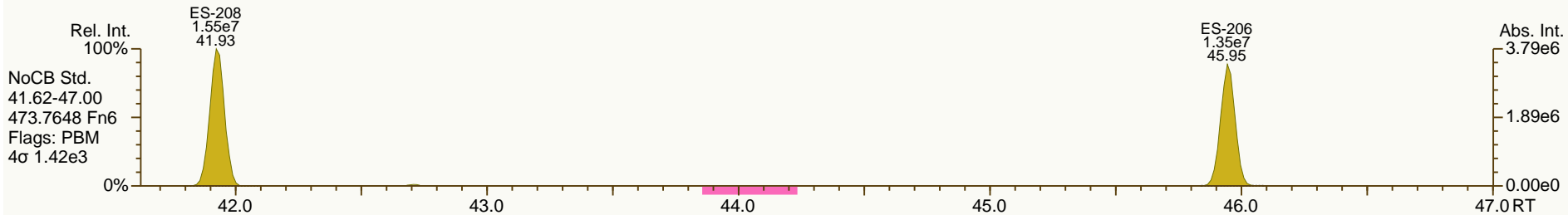
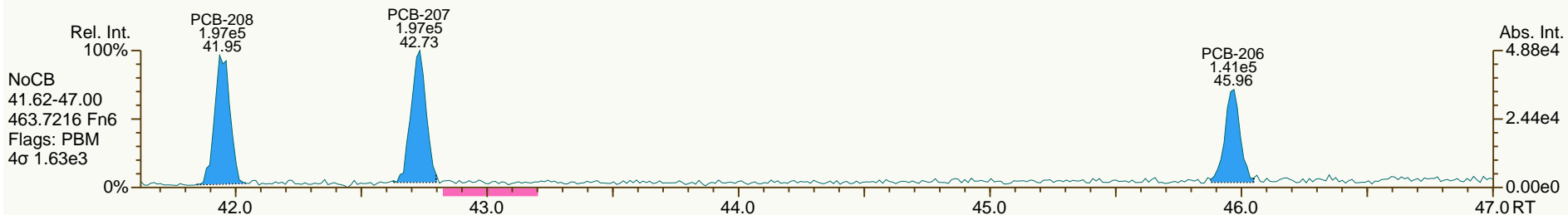
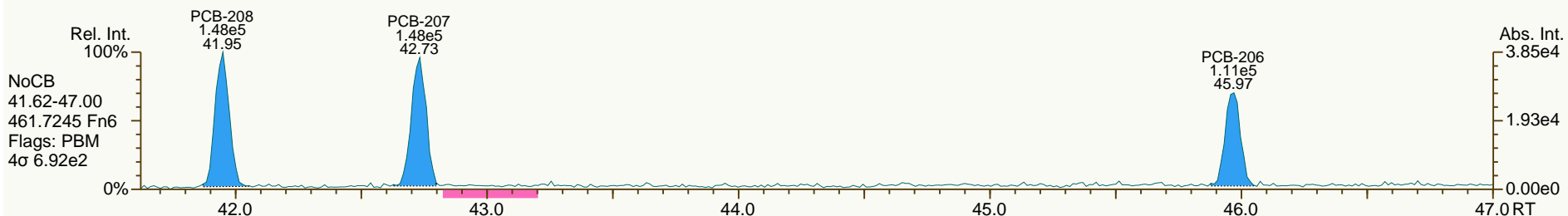
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SGS-AP ID: CS1_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-5
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 51

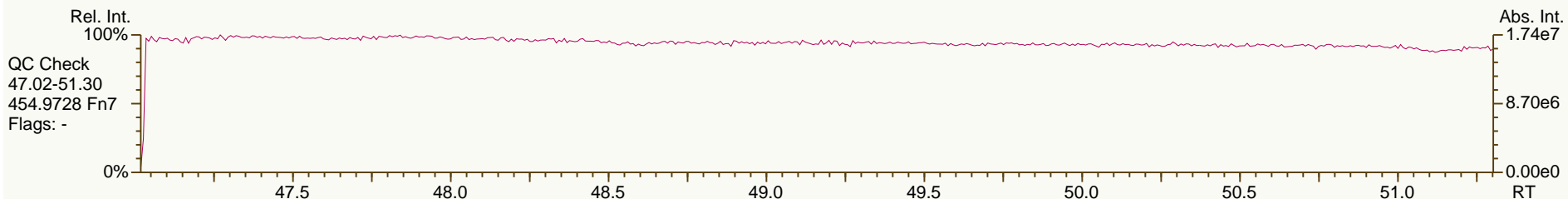
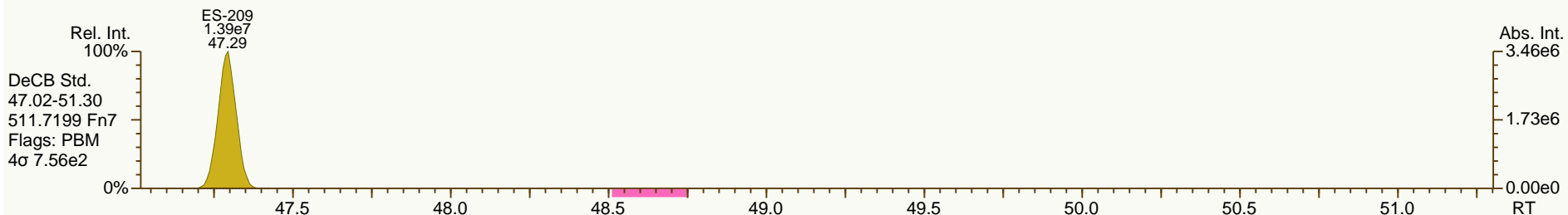
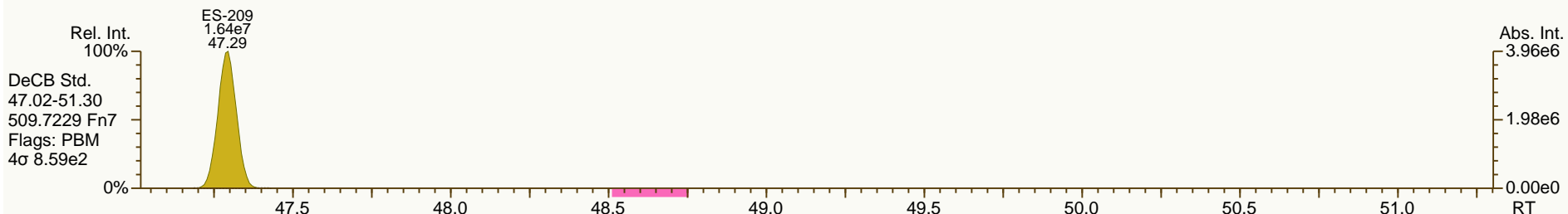
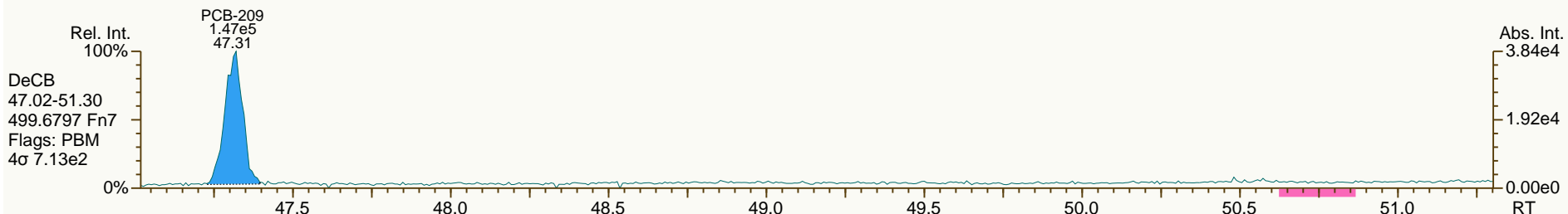
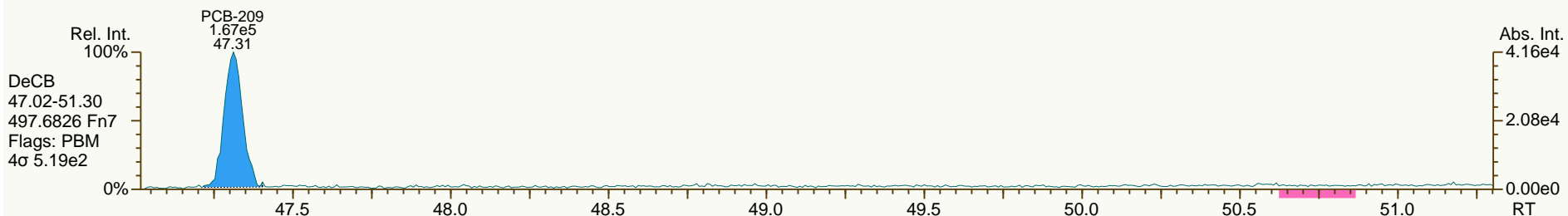
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 User: CTW Datafile: 130911S04



SGS-AP ID: CS1_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-5
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 51

Acq: 11-Sep-2013 14:36:37
 User: CTW Datafile: 130911S04



PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:36			
Lab ID:	CS2_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013						
Acquired:	11-SEP-2013 15:46							
Datafile:	130911S05							
Name	RT	Response	RA	ICAL	RRF	Dev'n		
PCB-77 33'44'-TeCB	29.43	3.15E+06	0.80 Y	1.51	1.41	-6.5%		
PCB-81 344'5'-TeCB	28.96	2.98E+06	0.77 Y	1.27	1.21	-4.9%		
PCB-105 233'44'-PeCB	32.38	1.91E+06	0.61 Y	1.00	0.92	-8.0%		
PCB-114 2344'5'-PeCB	31.84	2.07E+06	0.61 Y	1.06	0.98	-7.9%		
PCB-118 23'44'5'-PeCB	31.39	1.95E+06	0.60 Y	1.01	0.94	-7.2%		
PCB-123 23'44'5'-PeCB	31.11	2.08E+06	0.61 Y	1.06	1.04	-2.1%		
PCB-126 33'44'5'-PeCB	34.98	2.66E+06	0.62 Y	1.26	1.20	-5.0%		
PCB-156/157 ...-HxCB	37.51	3.63E+06	1.22 Y	1.06	0.99	-7.0%		
PCB-167 23'44'55'-HxCB	36.55	1.98E+06	1.22 Y	1.12	1.05	-6.3%		
PCB-169 33'44'55'-HxCB	40.23	1.86E+06	1.30 Y	1.09	1.02	-6.4%		
PCB-189 233'44'55'-HpCB	42.35	2.31E+06	1.09 Y	1.15	1.07	-7.1%		
PCB-209 DeCB	47.32	1.41E+06	1.18 Y	1.03	0.96	-7.4%		
ES PCB-1	9.96	7.40E+07	3.19 Y	1.04	1.05	0.6%		
ES PCB-3	11.89	6.92E+07	3.24 Y	0.99	0.98	-1.0%		
ES PCB-4	12.11	4.96E+07	1.56 Y	0.71	0.70	-1.2%		
ES PCB-15	17.23	7.54E+07	1.63 Y	1.09	1.07	-2.0%		
ES PCB-19	14.83	4.18E+07	1.04 Y	0.59	0.59	0.2%		
ES PCB-37	23.22	5.43E+07	1.08 Y	1.32	1.32	0.0%		
ES PCB-54	17.48	5.58E+07	0.78 Y	1.35	1.35	0.3%		
ES PCB-77	29.41	4.45E+07	0.80 Y	1.07	1.08	1.2%		
ES PCB-81	28.94	4.93E+07	0.80 Y	1.19	1.20	0.4%		
ES PCB-104	22.18	4.97E+07	1.52 Y	1.62	1.59	-1.6%		
ES PCB-105	32.36	4.16E+07	1.54 Y	1.30	1.33	2.5%		
ES PCB-114	31.81	4.23E+07	1.58 Y	1.32	1.36	2.9%		
ES PCB-118	31.37	4.16E+07	1.56 Y	1.30	1.34	2.5%		
ES PCB-123	31.09	4.01E+07	1.52 Y	1.26	1.29	2.0%		
ES PCB-126	34.96	4.44E+07	1.60 Y	1.41	1.42	1.2%		
ES PCB-153	32.95	3.58E+07	1.26 Y	1.15	1.16	0.9%		
ES PCB-155	26.99	4.74E+07	1.27 Y	1.53	1.54	0.3%		
ES PCB-156/157	37.49	7.34E+07	1.24 Y	1.19	1.19	0.3%		
ES PCB-167	36.52	3.79E+07	1.28 Y	1.22	1.23	0.4%		
ES PCB-169	40.21	3.67E+07	1.26 Y	1.18	1.19	0.7%		
ES PCB-170	39.72	2.85E+07	1.05 Y	1.22	1.20	-1.6%		
ES PCB-180	38.66	3.24E+07	1.05 Y	1.41	1.37	-2.8%		
ES PCB-188	31.81	5.18E+07	1.09 Y	1.71	1.68	-1.4%		
ES PCB-189	42.34	4.32E+07	1.05 Y	1.84	1.82	-0.8%		
ES PCB-202	36.33	4.33E+07	0.88 Y	1.42	1.40	-0.9%		
ES PCB-205	44.49	2.97E+07	0.89 Y	1.25	1.25	-0.1%		
ES PCB-206	45.95	2.95E+07	0.79 Y	1.24	1.24	0.5%		
ES PCB-208	41.93	3.35E+07	0.78 Y	1.42	1.42	-0.3%		
ES PCB-209	47.30	2.94E+07	1.18 Y	1.23	1.24	0.6%		

PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:36		
Lab ID:	CS2_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 15:46						
Datafile:	130911S05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	19.82	5.92E+07	1.09 Y	1.06	1.09	2.5%	
SS PCB-111	29.45	4.29E+07	1.57 Y	1.06	1.07	0.9%	
SS PCB-178	34.38	3.05E+07	1.09 Y	0.58	0.59	1.1%	
CS PCB-28	19.82	5.92E+07	1.09 Y	1.40	1.44	2.4%	
CS PCB-111	29.45	4.29E+07	1.57 Y	1.34	1.38	3.0%	
CS PCB-178	34.38	3.05E+07	1.09 Y	0.99	0.99	-0.3%	
JS PCB-9	13.85	7.06E+07	1.63 Y	-	-	-	
JS PCB-52	21.38	4.12E+07	0.78 Y	-	-	-	
JS PCB-101	27.18	3.12E+07	1.58 Y	-	-	-	
JS PCB-138	33.99	3.08E+07	1.26 Y	-	-	-	
JS PCB-194	44.10	2.37E+07	0.87 Y	-	-	-	
PCB-1 2-MoCB	9.97	4.14E+06	3.12 Y	1.20	1.12	-6.6%	
PCB-3 4-MoCB	11.91	4.06E+06	3.15 Y	1.24	1.17	-5.2%	
PCB-4 22'-DiCB	12.12	2.23E+06	1.49 Y	0.97	0.90	-7.4%	
PCB-15 44'-DiCB	17.24	4.46E+06	1.43 Y	1.23	1.18	-3.7%	
PCB-19 22'6'-TrCB	14.84	1.83E+06	1.04 Y	0.97	0.87	-9.7%	
PCB-37 344'-TrCB	23.24	3.34E+06	1.05 Y	1.28	1.23	-4.1%	
PCB-54 22'66'-TeCB	17.50	2.62E+06	0.79 Y	1.00	0.94	-6.3%	
PCB-104 22'466'-PeCB	22.20	2.51E+06	0.64 Y	1.06	1.01	-4.4%	
PCB-153/168 ...-HxCB	32.99	4.22E+06	1.29 Y	1.26	1.18	-6.2%	
PCB-155 22'44'66'-HxCB	27.01	2.50E+06	1.22 Y	1.12	1.06	-6.0%	
PCB-170 22'33'44'5'-HpCB	39.73	1.34E+06	1.05 Y	1.01	0.94	-6.5%	
PCB-180/193 ...-HpCB	38.65	3.41E+06	1.06 Y	1.11	1.05	-5.4%	
PCB-188 22'34'566'-HpCB	31.83	2.36E+06	1.06 Y	0.97	0.91	-6.1%	
PCB-202 22'33'55'66'-OcCB	36.35	1.73E+06	0.90 Y	0.83	0.80	-3.8%	
PCB-205 233'44'55'6'-OcCB	44.51	1.49E+06	0.89 Y	1.08	1.00	-7.1%	
PCB-208 22'33'455'66'-NoCB	41.96	1.51E+06	0.79 Y	0.99	0.90	-9.5%	
PCB-206 22'33'44'55'6'-NoCB	45.97	1.13E+06	0.78 Y	0.83	0.77	-7.5%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS2_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 15:46						
Datafile:	130911S05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	9.97	4.14E+06	3.12 Y	1.20	1.12	-6.6%	
PCB-2 3-MoCB	11.75	4.11E+06	3.22 Y	1.25	1.19	-4.7%	
PCB-3 4-MoCB	11.91	4.06E+06	3.15 Y	1.24	1.17	-5.2%	
PCB-4 22'-DiCB	12.12	2.23E+06	1.49 Y	0.97	0.90	-7.4%	
PCB-10 26'-DiCB	12.28	3.56E+06	1.41 Y	1.51	1.44	-4.9%	
PCB-9 25'-DiCB	13.86	3.72E+06	1.59 Y	1.06	0.99	-6.8%	
PCB-7 24'-DiCB	14.00	4.44E+06	1.47 Y	1.23	1.18	-4.3%	
PCB-6 23'-DiCB	14.21	4.19E+06	1.43 Y	1.14	1.11	-2.2%	
PCB-5 23'-DiCB	14.48	4.28E+06	1.48 Y	1.15	1.14	-1.0%	
PCB-8 24'-DiCB	14.59	4.43E+06	1.47 Y	1.18	1.18	0.0%	
PCB-14 35'-DiCB	15.99	4.88E+06	1.52 Y	1.31	1.30	-1.3%	
PCB-11 33'-DiCB	16.71	4.17E+06	1.51 Y	1.17	1.11	-5.6%	
PCB-13/12 34'/34'-DiCB	16.98	8.36E+06	1.50 Y	1.17	1.11	-4.9%	
PCB-15 44'-DiCB	17.24	4.46E+06	1.43 Y	1.23	1.18	-3.7%	
PCB-19 22'6'-TrCB	14.84	1.83E+06	1.04 Y	0.97	0.87	-9.7%	
PCB-30/18 246/22'5'-TrCB	16.44	4.78E+06	1.05 Y	1.23	1.14	-7.5%	
PCB-17 22'4'-TrCB	16.81	2.09E+06	1.06 Y	1.06	1.00	-5.5%	
PCB-27 23'6'-TrCB	16.99	2.75E+06	1.04 Y	1.44	1.31	-8.7%	
PCB-24 236'-TrCB	17.11	2.62E+06	1.04 Y	1.37	1.25	-8.5%	
PCB-16 22'3'-TrCB	17.20	1.62E+06	1.06 Y	0.80	0.77	-4.0%	
PCB-32 24'6'-TrCB	17.65	3.11E+06	1.07 Y	1.59	1.49	-6.5%	
PCB-34 23'5'-TrCB	18.73	3.23E+06	1.10 Y	1.26	1.19	-5.9%	
PCB-23 235'-TrCB	18.86	3.31E+06	1.05 Y	1.31	1.22	-6.8%	
PCB-26/29 23'5'/245'-TrCB	19.13	6.76E+06	1.06 Y	1.33	1.24	-6.7%	
PCB-25 23'4'-TrCB	19.32	3.42E+06	1.03 Y	1.33	1.26	-5.4%	
PCB-31 24'5'-TrCB	19.59	3.56E+06	1.08 Y	1.39	1.31	-5.4%	
PCB-28/20 244'/233'-TrCB	19.85	6.70E+06	1.07 Y	1.30	1.23	-5.1%	
PCB-21/33 234'/23'4'-TrCB	20.01	6.85E+06	1.07 Y	1.34	1.26	-6.1%	
PCB-22 234'-TrCB	20.38	3.15E+06	1.08 Y	1.22	1.16	-4.7%	
PCB-36 33'5'-TrCB	21.71	3.50E+06	1.07 Y	1.35	1.29	-4.5%	
PCB-39 34'5'-TrCB	22.01	3.56E+06	1.05 Y	1.40	1.31	-6.2%	
PCB-38 345'-TrCB	22.50	3.29E+06	1.07 Y	1.25	1.21	-3.1%	
PCB-35 33'4'-TrCB	22.90	3.16E+06	1.06 Y	1.23	1.16	-5.5%	
PCB-37 344'-TrCB	23.24	3.34E+06	1.05 Y	1.28	1.23	-4.1%	
PCB-54 22'66'-TeCB	17.50	2.62E+06	0.79 Y	1.00	0.94	-6.3%	
PCB-50/53 22'46'/22'56'-TeCB	19.36	3.76E+06	0.78 Y	0.82	0.76	-6.4%	
PCB-45 22'36'-TeCB	19.91	1.64E+06	0.77 Y	0.73	0.67	-8.9%	
PCB-51 22'46'-TeCB	19.98	1.87E+06	0.77 Y	0.79	0.76	-4.1%	
PCB-46 22'36'-TeCB	20.18	1.51E+06	0.78 Y	0.66	0.61	-6.8%	
PCB-52 22'55'-TeCB	21.40	1.84E+06	0.76 Y	0.79	0.75	-5.2%	
PCB-73 23'5'6'-TeCB	21.52	2.53E+06	0.75 Y	1.06	1.03	-3.1%	
PCB-43 22'35'-TeCB	21.60	1.41E+06	0.78 Y	0.64	0.57	-10.8%	
PCB-69/49 23'46'/22'45'-TeCB	21.79	4.36E+06	0.78 Y	0.95	0.88	-6.7%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS2_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 15:46						
Datafile:	130911S05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.05	1.85E+06	0.77 Y	0.79	0.75	-4.3%	
PCB-44/47/65 ...-TeCB	22.26	5.87E+06	0.78 Y	0.84	0.79	-5.5%	
PCB-59/62/75 ...-TeCB	22.52	7.43E+06	0.78 Y	1.07	1.01	-6.3%	
PCB-42 22'34'-TeCB	22.69	1.69E+06	0.80 Y	0.72	0.69	-4.5%	
PCB-41 22'34'-TeCB	23.00	1.58E+06	0.80 Y	0.66	0.64	-2.4%	
PCB-71/40 23'4'6/22'33'-TeCB	23.10	3.68E+06	0.78 Y	0.79	0.75	-5.9%	
PCB-64 23'4'6'-TeCB	23.29	2.63E+06	0.77 Y	1.13	1.07	-5.9%	
PCB-72 23'55'-TeCB	24.01	3.00E+06	0.79 Y	1.31	1.22	-6.9%	
PCB-68 23'45'-TeCB	24.25	3.32E+06	0.79 Y	1.43	1.35	-5.5%	
PCB-57 23'35'-TeCB	24.61	2.96E+06	0.79 Y	1.26	1.20	-4.5%	
PCB-58 23'35'-TeCB	24.81	2.99E+06	0.80 Y	1.30	1.21	-6.9%	
PCB-67 23'45'-TeCB	24.95	3.16E+06	0.82 Y	1.35	1.28	-4.7%	
PCB-63 23'45'-TeCB	25.18	3.27E+06	0.84 Y	1.42	1.33	-6.5%	
PCB-61/70/74/76 ...-TeCB	25.45	1.22E+07	0.77 Y	1.32	1.24	-6.4%	
PCB-66 23'44'-TeCB	25.73	2.93E+06	0.77 Y	1.26	1.19	-5.7%	
PCB-55 23'34'-TeCB	25.87	2.91E+06	0.78 Y	1.24	1.18	-4.4%	
PCB-56 23'34'-TeCB	26.30	2.89E+06	0.80 Y	1.22	1.17	-4.3%	
PCB-60 23'44'-TeCB	26.48	2.99E+06	0.78 Y	1.29	1.21	-5.7%	
PCB-80 33'55'-TeCB	26.83	3.33E+06	0.78 Y	1.42	1.35	-4.8%	
PCB-79 33'45'-TeCB	28.12	3.43E+06	0.77 Y	1.47	1.39	-5.2%	
PCB-78 33'45'-TeCB	28.59	2.85E+06	0.76 Y	1.23	1.16	-6.4%	
PCB-104 22'466'-PeCB	22.20	2.51E+06	0.64 Y	1.06	1.01	-4.4%	
PCB-96 22'366'-PeCB	22.51	2.09E+06	0.61 Y	0.90	0.84	-6.5%	
PCB-103 22'45'6'-PeCB	24.16	1.56E+06	0.63 Y	0.84	0.78	-7.6%	
PCB-94 22'356'-PeCB	24.35	1.36E+06	0.64 Y	0.73	0.68	-7.0%	
PCB-95 22'35'6'-PeCB	24.72	1.43E+06	0.61 Y	0.78	0.71	-8.5%	
PCB-100/93 22'44'6/22'356'-PeCB	24.91	2.90E+06	0.61 Y	0.77	0.72	-6.6%	
PCB-102 22'456'-PeCB	25.02	1.66E+06	0.61 Y	0.83	0.83	-0.6%	
PCB-98 22'34'6'-PeCB	25.09	1.30E+06	0.61 Y	0.75	0.65	-13.6%	
PCB-88 22'346'-PeCB	25.37	1.41E+06	0.61 Y	0.74	0.70	-5.3%	
PCB-91 22'34'6'-PeCB	25.45	1.47E+06	0.63 Y	0.83	0.73	-11.8%	
PCB-84 22'33'6'-PeCB	25.64	1.22E+06	0.61 Y	0.66	0.61	-8.2%	
PCB-89 22'346'-PeCB	26.04	1.28E+06	0.62 Y	0.69	0.64	-7.9%	
PCB-121 23'45'6'-PeCB	26.40	1.94E+06	0.63 Y	1.06	0.97	-8.7%	
PCB-92 22'355'-PeCB	26.71	1.37E+06	0.63 Y	0.73	0.68	-6.5%	
PCB-113/90/101 ...-PeCB	27.18	4.74E+06	0.60 Y	0.85	0.79	-7.6%	
PCB-83 22'33'5'-PeCB	27.60	1.16E+06	0.58 Y	0.65	0.58	-10.6%	
PCB-99 22'44'5'-PeCB	27.69	1.50E+06	0.62 Y	0.84	0.75	-11.0%	
PCB-112 23'3'56'-PeCB	27.79	1.92E+06	0.61 Y	1.00	0.96	-4.2%	
PCB-109/119/86/97/125...-PeCB	28.13	9.76E+06	0.60 Y	0.87	0.81	-6.9%	
PCB-117 23'4'56'-PeCB	28.65	1.66E+06	0.61 Y	0.88	0.83	-5.7%	
PCB-116/85 23'456/22'344'-PeCB	28.72	3.38E+06	0.62 Y	0.91	0.84	-7.9%	
PCB-110 23'3'4'6'-PeCB	28.87	1.98E+06	0.59 Y	0.99	0.99	-0.2%	

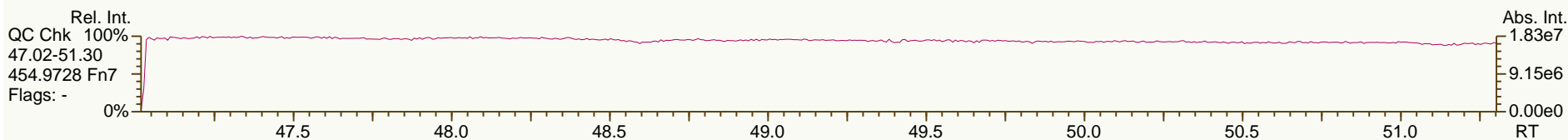
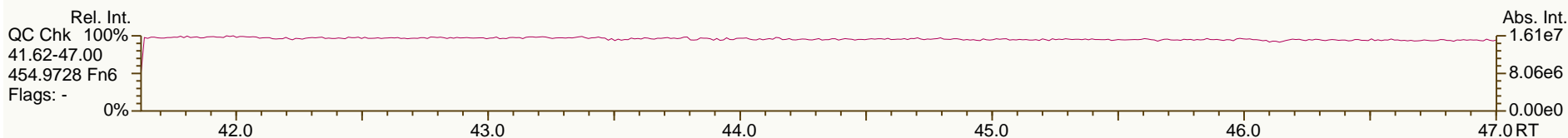
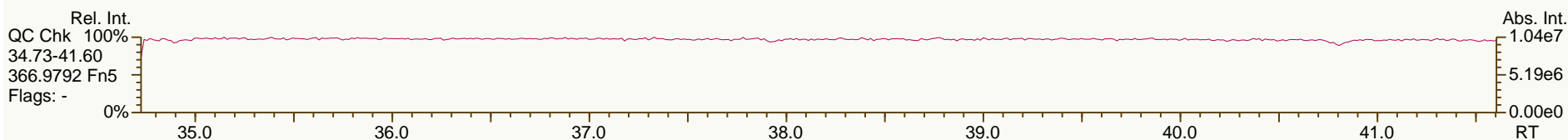
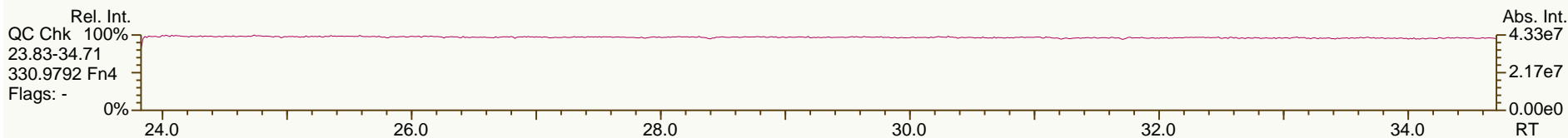
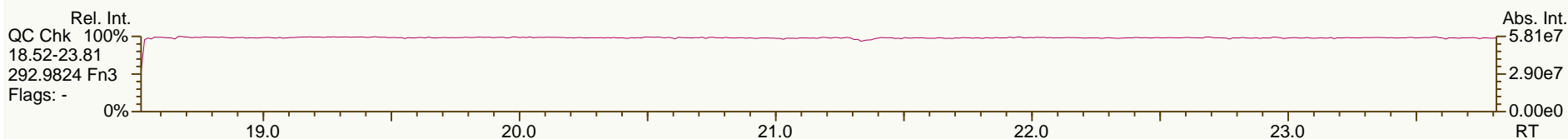
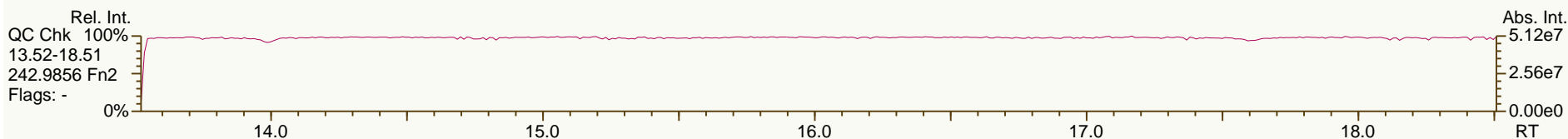
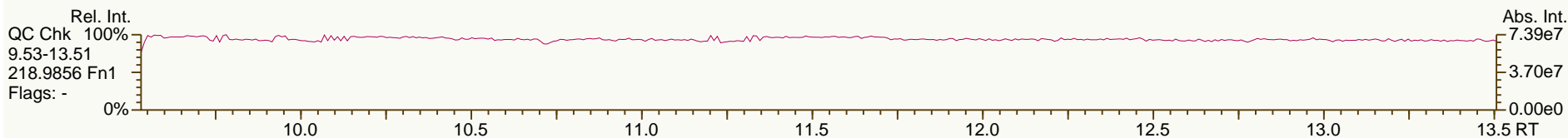
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Lab ID:	CS2_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 15:46						
Datafile:	130911S05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	28.94	1.73E+06	0.63 Y	1.01	0.86	-14.6%	
PCB-82 22'33'4-PeCB	29.13	1.15E+06	0.59 Y	0.62	0.57	-8.3%	
PCB-111 233'55'-PeCB	29.47	1.96E+06	0.60 Y	1.07	0.98	-8.7%	
PCB-120 23'455'-PeCB	29.86	1.98E+06	0.60 Y	1.07	0.99	-7.9%	
PCB-108/124 ...-PeCB	30.81	3.67E+06	0.62 Y	0.98	0.91	-7.1%	
PCB-107 233'4'5-PeCB	31.01	2.01E+06	0.60 Y	1.07	1.00	-6.4%	
PCB-106 233'45-PeCB	31.21	1.80E+06	0.59 Y	1.00	0.90	-10.4%	
PCB-122 233'4'5'-PeCB	31.68	1.76E+06	0.61 Y	0.89	0.83	-6.7%	
PCB-127 33'455'-PeCB	33.62	1.94E+06	0.61 Y	0.98	0.93	-5.1%	
PCB-155 22'44'66'-HxCB	27.01	2.50E+06	1.22 Y	1.12	1.06	-6.0%	
PCB-152 22'3566'-HxCB	27.17	2.25E+06	1.29 Y	1.05	0.95	-9.4%	
PCB-150 22'34'66'-HxCB	27.32	2.29E+06	1.32 Y	1.07	0.97	-9.4%	
PCB-136 22'33'66'-HxCB	27.62	2.20E+06	1.26 Y	0.99	0.93	-6.4%	
PCB-145 22'3466'-HxCB	27.87	2.15E+06	1.28 Y	1.00	0.91	-9.0%	
PCB-148 22'34'56'-HxCB	29.15	1.71E+06	1.29 Y	1.03	0.95	-7.4%	
PCB-151/135 ...-HxCB	29.67	3.29E+06	1.21 Y	1.00	0.92	-8.2%	
PCB-154 22'44'56'-HxCB	29.86	1.86E+06	1.26 Y	1.13	1.04	-8.0%	
PCB-144 22'345'6-HxCB	30.12	1.69E+06	1.29 Y	1.03	0.94	-8.2%	
PCB-147/149 ...-HxCB	30.42	3.36E+06	1.25 Y	1.03	0.94	-8.6%	
PCB-134 22'33'56-HxCB	30.59	1.38E+06	1.22 Y	0.84	0.77	-7.8%	
PCB-143 22'3456'-HxCB	30.67	1.62E+06	1.26 Y	0.95	0.91	-4.4%	
PCB-139/140 ...-HxCB	30.93	3.49E+06	1.25 Y	1.05	0.97	-7.1%	
PCB-131 22'33'46-HxCB	31.09	1.47E+06	1.23 Y	0.87	0.82	-6.0%	
PCB-142 22'3456-HxCB	31.22	1.52E+06	1.24 Y	0.91	0.85	-6.4%	
PCB-132 22'33'46'-HxCB	31.48	1.53E+06	1.20 Y	0.92	0.85	-7.2%	
PCB-133 22'33'55'-HxCB	31.91	1.59E+06	1.27 Y	0.97	0.89	-7.8%	
PCB-165 233'55'6-HxCB	32.24	1.99E+06	1.26 Y	1.19	1.11	-7.0%	
PCB-146 22'34'55'-HxCB	32.45	1.80E+06	1.26 Y	1.08	1.01	-7.2%	
PCB-161 233'45'6-HxCB	32.56	2.21E+06	1.25 Y	1.34	1.23	-8.4%	
PCB-153/168 ...-HxCB	32.99	4.22E+06	1.29 Y	1.26	1.18	-6.2%	
PCB-141 22'3455'-HxCB	33.13	1.63E+06	1.25 Y	0.98	0.91	-7.4%	
PCB-130 22'33'45'-HxCB	33.47	1.46E+06	1.31 Y	0.88	0.81	-7.1%	
PCB-137 22'344'5-HxCB	33.66	1.78E+06	1.23 Y	1.07	0.99	-7.3%	
PCB-164 233'4'5'6-HxCB	33.76	2.16E+06	1.24 Y	1.29	1.21	-6.5%	
PCB-163/138/129 ...-HxCB	34.03	5.24E+06	1.27 Y	1.05	0.97	-6.9%	
PCB-160 233'456-HxCB	34.15	2.02E+06	1.28 Y	1.26	1.13	-10.4%	
PCB-158 233'44'6-HxCB	34.34	2.35E+06	1.28 Y	1.40	1.31	-6.4%	
PCB-128/166 ...-HxCB	35.06	3.08E+06	1.24 Y	0.89	0.81	-8.3%	
PCB-159 233'455'-HxCB	35.90	1.84E+06	1.25 Y	1.04	0.97	-6.6%	
PCB-162 233'4'55'-HxCB	36.15	1.83E+06	1.29 Y	1.04	0.97	-6.9%	
PCB-188 22'34'566'-HpCB	31.83	2.36E+06	1.06 Y	0.97	0.91	-6.1%	
PCB-179 22'33'566'-HpCB	32.11	2.22E+06	1.05 Y	0.89	0.86	-4.3%	
PCB-184 22'344'66'-HpCB	32.56	2.19E+06	1.12 Y	0.87	0.84	-3.1%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS2_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 15:46						
Datafile:	130911S05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	32.85	2.36E+06	1.03 Y	0.97	0.91	-5.5%	
PCB-186 22'34566'-HpCB	33.24	2.28E+06	1.05 Y	0.93	0.88	-5.9%	
PCB-178 22'33'55'6'-HpCB	34.40	1.62E+06	1.04 Y	0.67	0.62	-7.4%	
PCB-175 22'33'45'6'-HpCB	34.93	1.51E+06	1.06 Y	0.97	0.93	-4.3%	
PCB-187 22'34'55'6'-HpCB	35.16	1.57E+06	1.04 Y	1.02	0.97	-5.2%	
PCB-182 22'344'56'-HpCB	35.33	1.63E+06	1.03 Y	1.05	1.01	-4.1%	
PCB-183 22'344'5'6'-HpCB	35.68	1.66E+06	1.02 Y	1.07	1.03	-3.9%	
PCB-185 22'3455'6'-HpCB	35.76	1.43E+06	1.08 Y	0.96	0.88	-7.8%	
PCB-174 22'33'456'-HpCB	35.87	1.35E+06	1.07 Y	0.86	0.83	-2.6%	
PCB-177 22'33'45'6'-HpCB	36.24	1.29E+06	1.08 Y	0.83	0.79	-4.8%	
PCB-181 22'344'56'-HpCB	36.57	1.52E+06	1.01 Y	1.00	0.94	-6.0%	
PCB-171/173 ...-HpCB	36.76	2.60E+06	1.00 Y	0.86	0.80	-7.4%	
PCB-172 22'33'455'-HpCB	38.13	1.32E+06	1.02 Y	0.87	0.81	-6.8%	
PCB-192 233'455'6'-HpCB	38.37	1.78E+06	1.01 Y	1.19	1.10	-7.2%	
PCB-180/193 ...-HpCB	38.65	3.41E+06	1.06 Y	1.11	1.05	-5.4%	
PCB-191 233'44'5'6'-HpCB	38.98	1.91E+06	1.06 Y	1.23	1.18	-4.8%	
PCB-170 22'33'44'5'-HpCB	39.73	1.34E+06	1.05 Y	1.01	0.94	-6.5%	
PCB-190 233'44'56'-HpCB	40.18	1.86E+06	1.00 Y	1.42	1.31	-7.7%	
PCB-202 22'33'55'66'-OcCB	36.35	1.73E+06	0.90 Y	0.83	0.80	-3.8%	
PCB-201 22'33'45'66'-OcCB	37.12	1.94E+06	0.90 Y	0.94	0.90	-5.0%	
PCB-204 22'344'566'-OcCB	37.69	1.79E+06	0.89 Y	0.87	0.83	-5.2%	
PCB-197 22'33'44'66'-OcCB	37.88	2.02E+06	0.85 Y	0.97	0.94	-4.0%	
PCB-200 22'33'4566'-OcCB	37.97	1.74E+06	0.90 Y	0.89	0.80	-9.5%	
PCB-198/199 ...-OcCB	40.31	2.65E+06	0.87 Y	0.66	0.61	-6.6%	
PCB-196 22'33'44'56'-OcCB	40.88	1.45E+06	0.86 Y	0.70	0.67	-4.9%	
PCB-203 22'344'55'6'-OcCB	41.04	1.50E+06	0.92 Y	0.74	0.69	-5.9%	
PCB-195 22'33'44'56'-OcCB	42.15	1.06E+06	0.94 Y	0.78	0.71	-8.6%	
PCB-194 22'33'44'55'-OcCB	44.12	1.13E+06	0.92 Y	0.85	0.76	-9.9%	
PCB-205 233'44'55'6'-OcCB	44.51	1.49E+06	0.89 Y	1.08	1.00	-7.1%	
PCB-208 22'33'455'66'-NoCB	41.96	1.51E+06	0.79 Y	0.99	0.90	-9.5%	
PCB-207 22'33'44'566'-NoCB	42.74	1.58E+06	0.77 Y	1.03	0.94	-8.0%	
PCB-206 22'33'44'55'6'-NoCB	45.97	1.13E+06	0.78 Y	0.83	0.77	-7.5%	

SGS-AP ID: CS2_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

Acq: 11-Sep-2013 15:46:45
User: CTW Datafile: 130911S05



SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

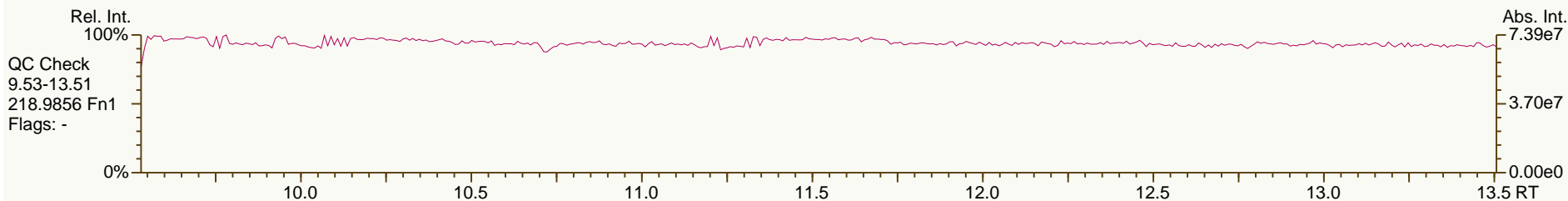
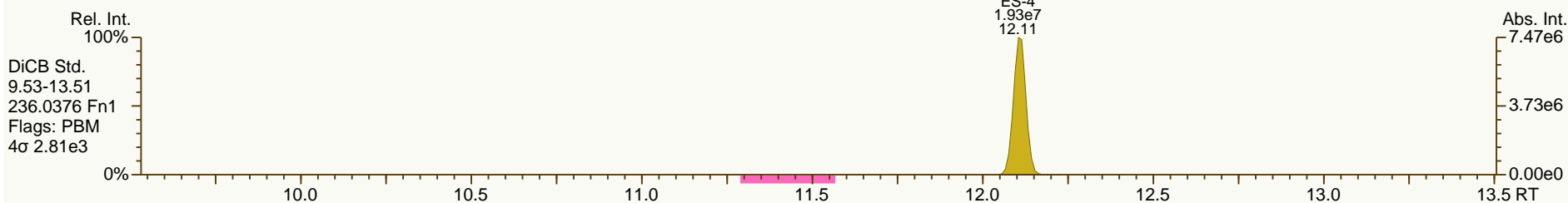
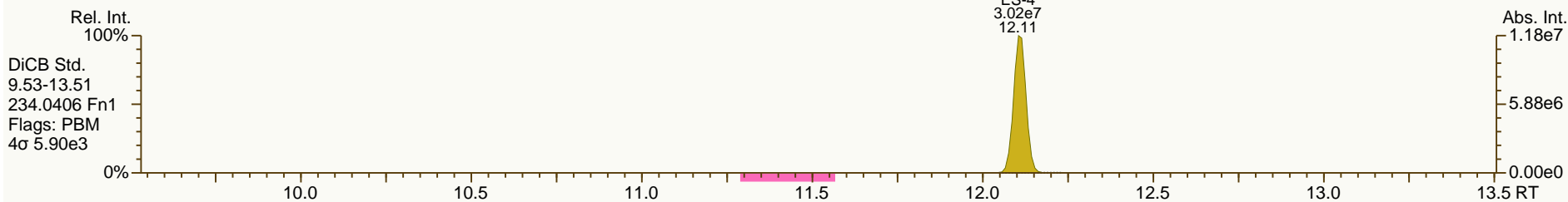
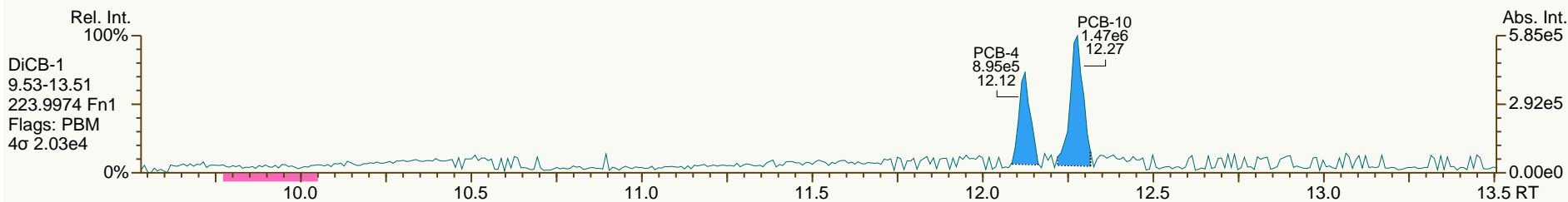
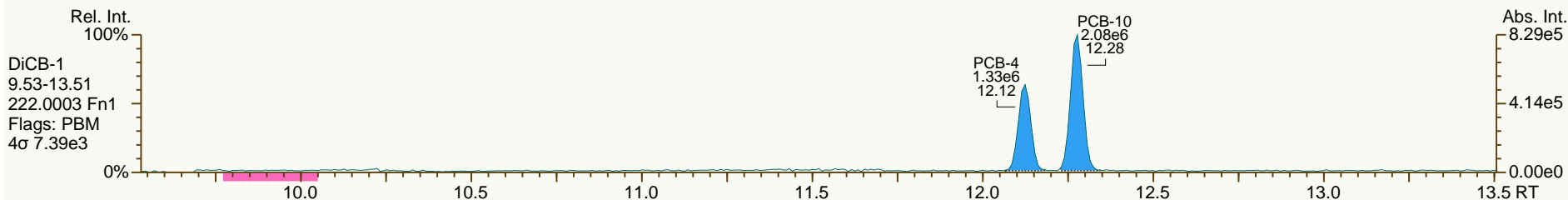
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SGS-AP ID: CS2_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

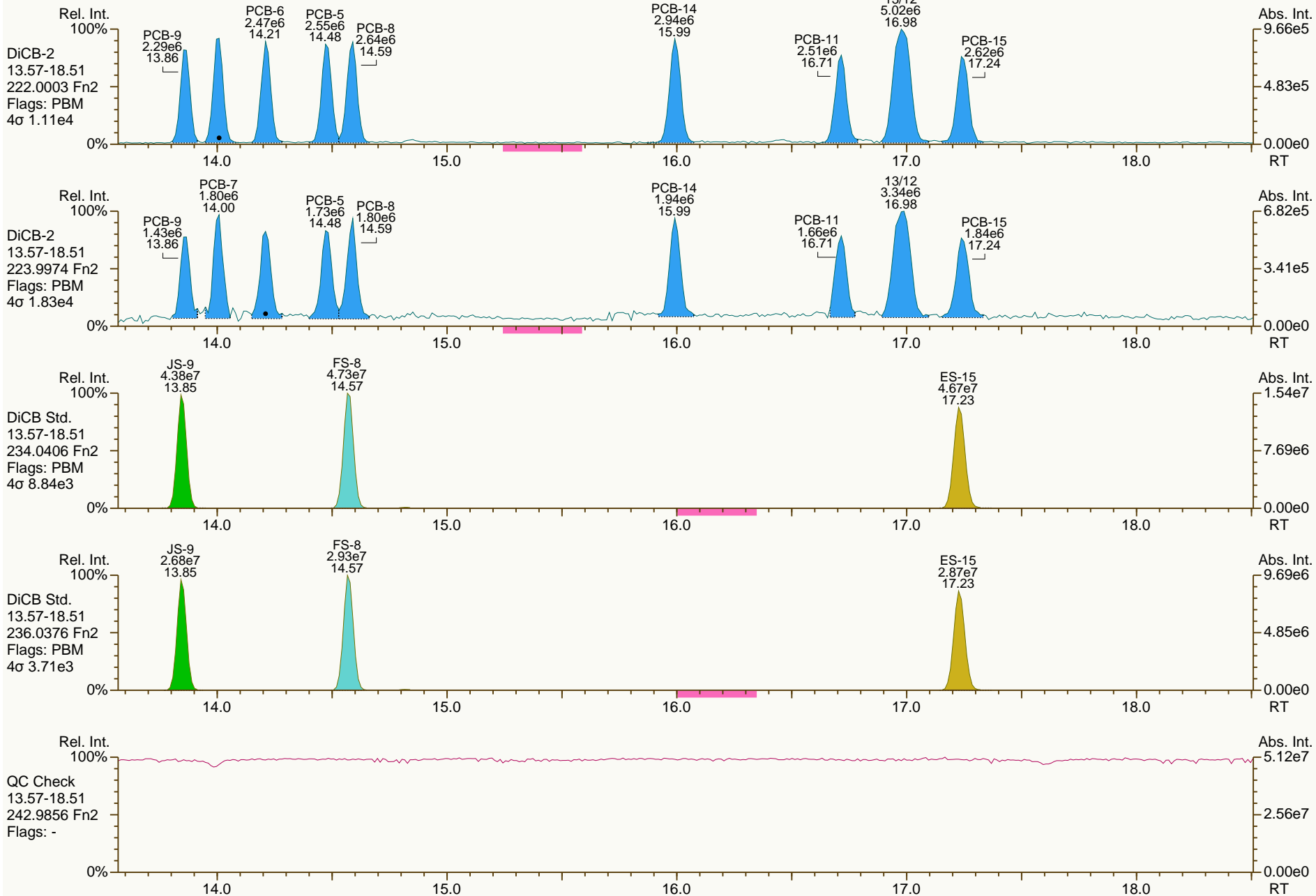
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User: CTW Datafile: 130911S05



SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

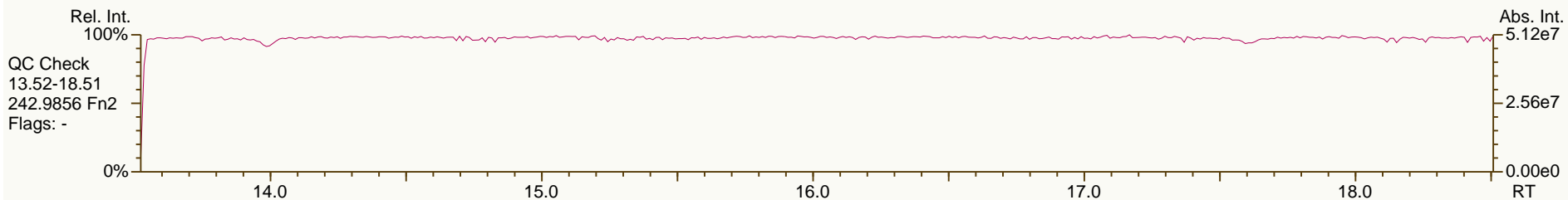
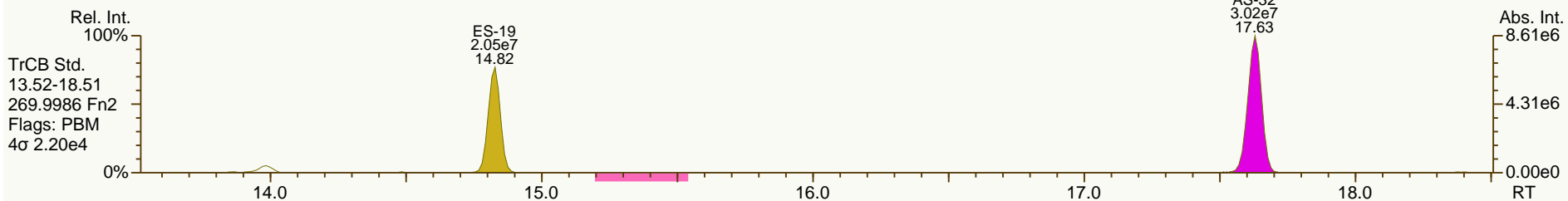
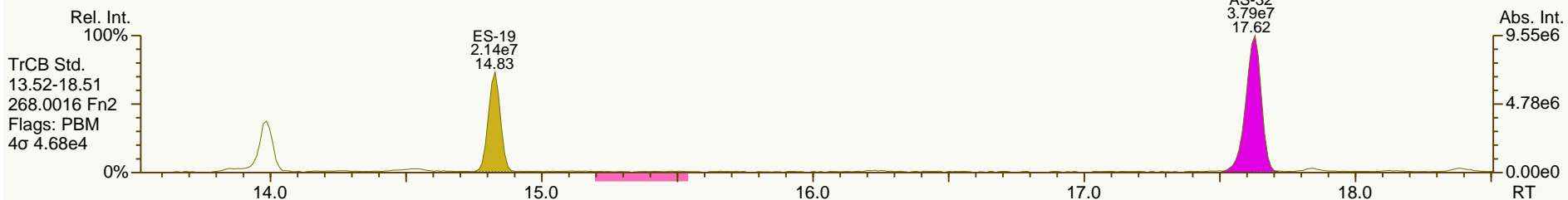
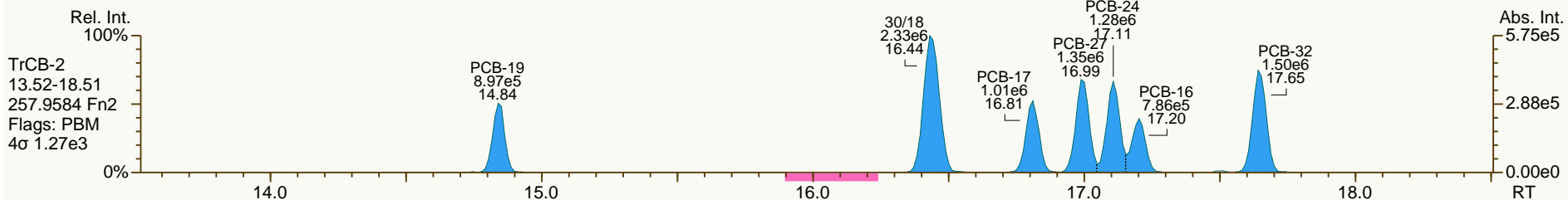
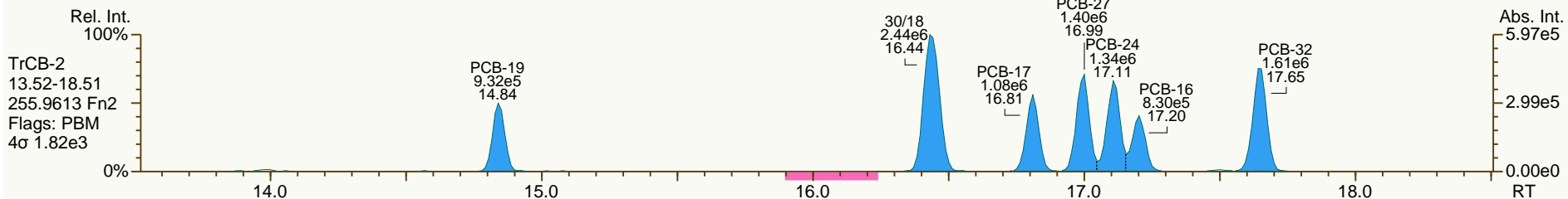
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

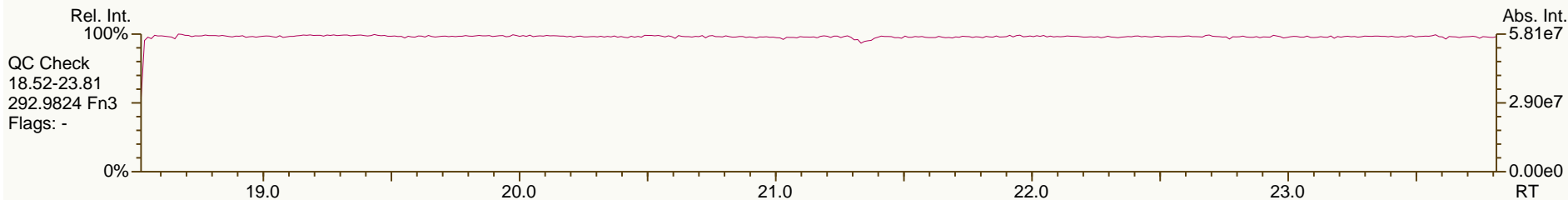
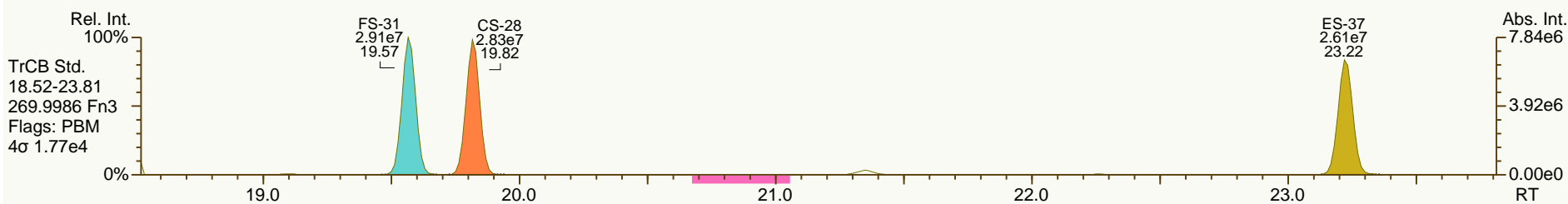
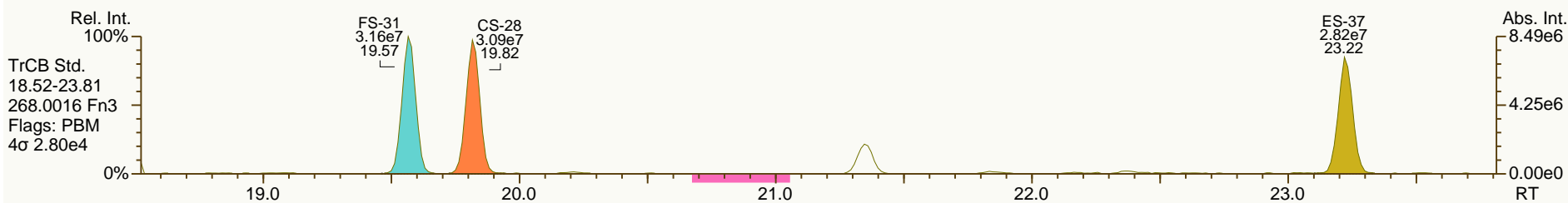
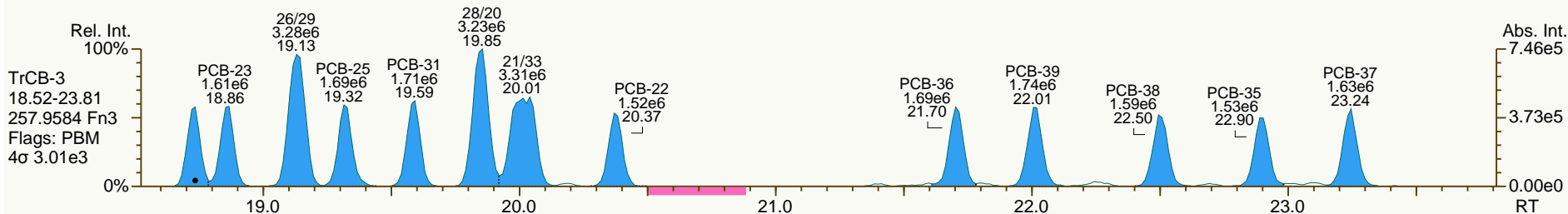
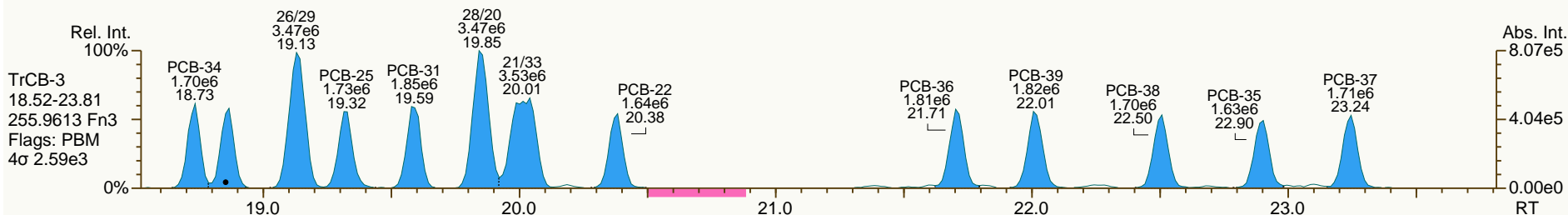
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

Acq: 11-Sep-2013 15:46:45
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

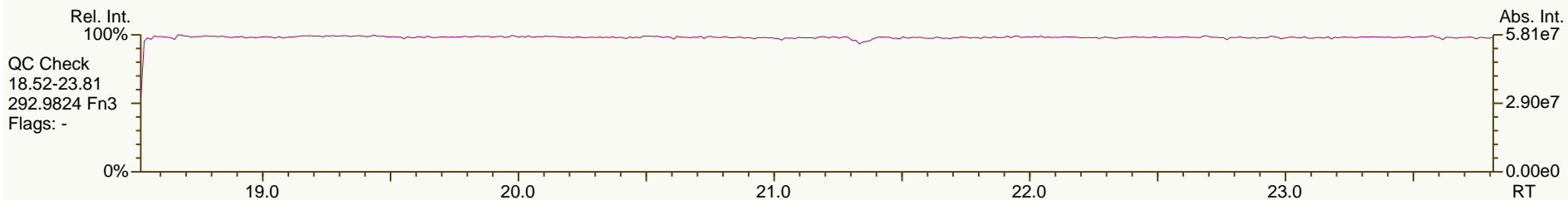
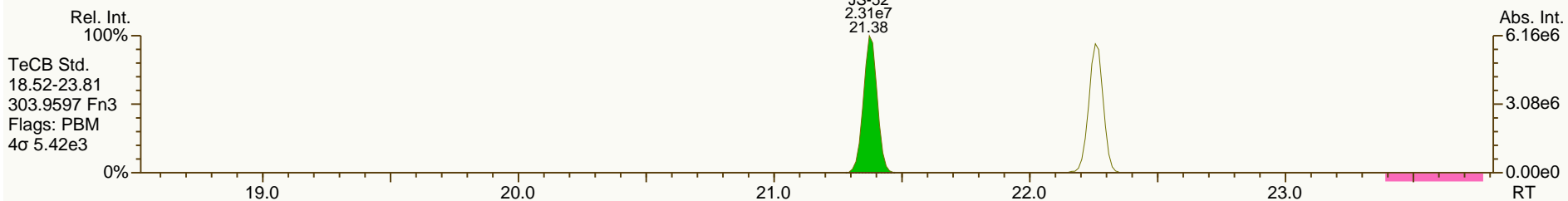
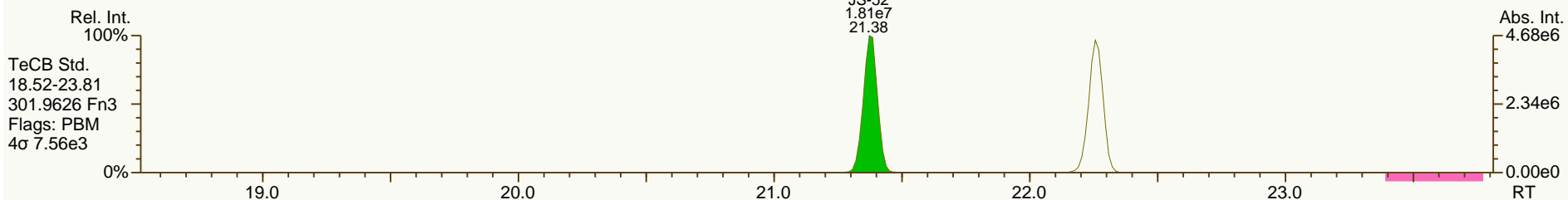
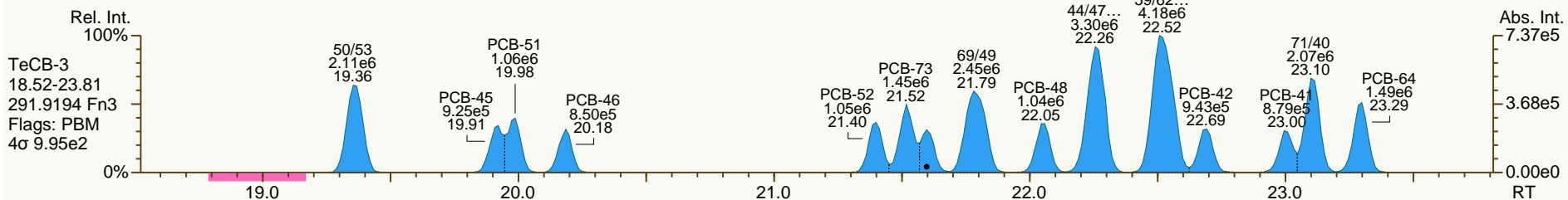
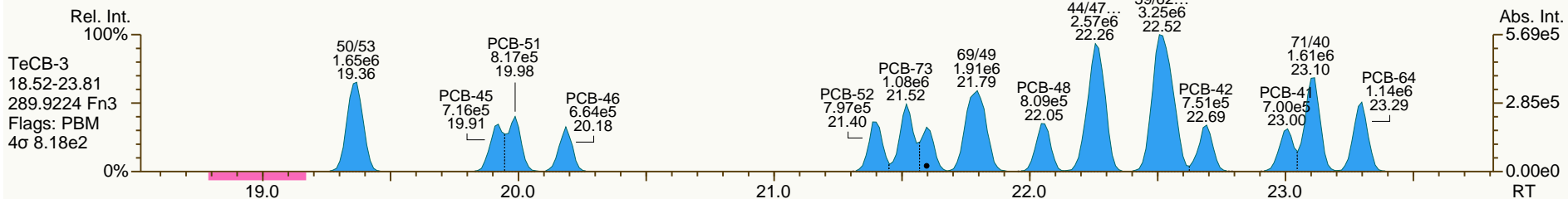
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 User: CTW Datafile: 130911S05



SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

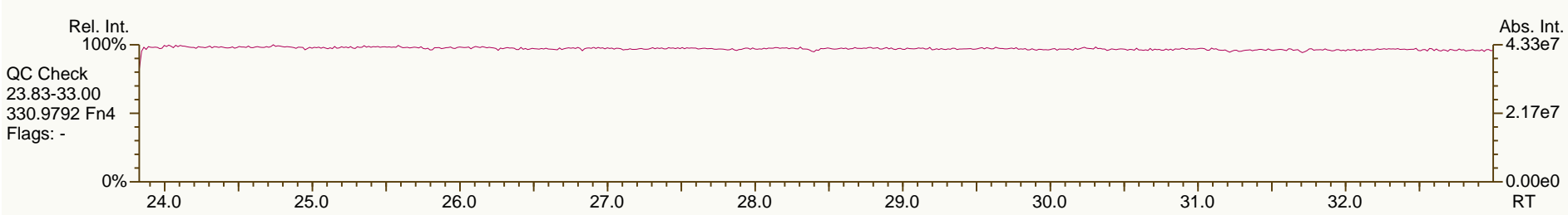
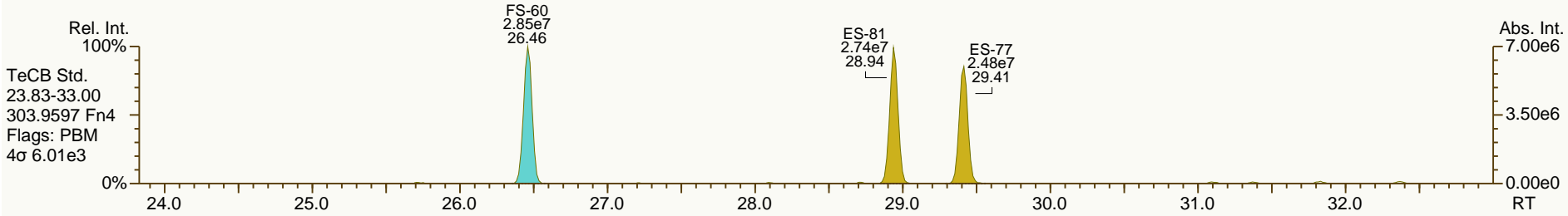
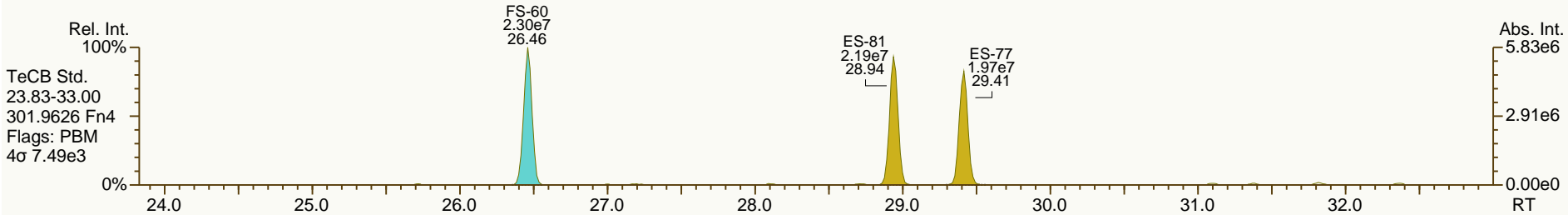
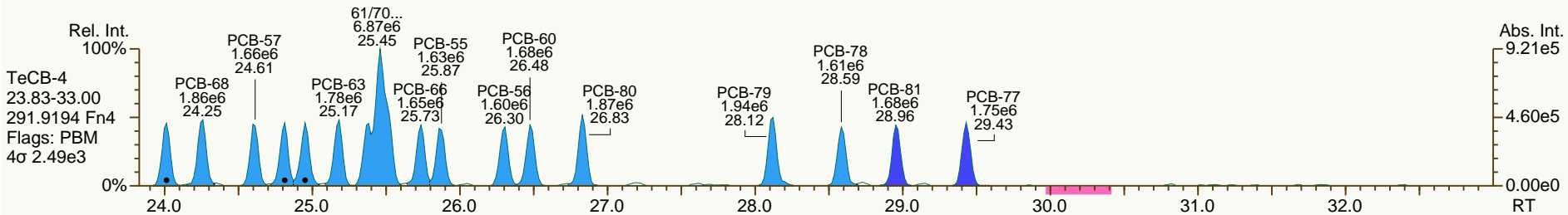
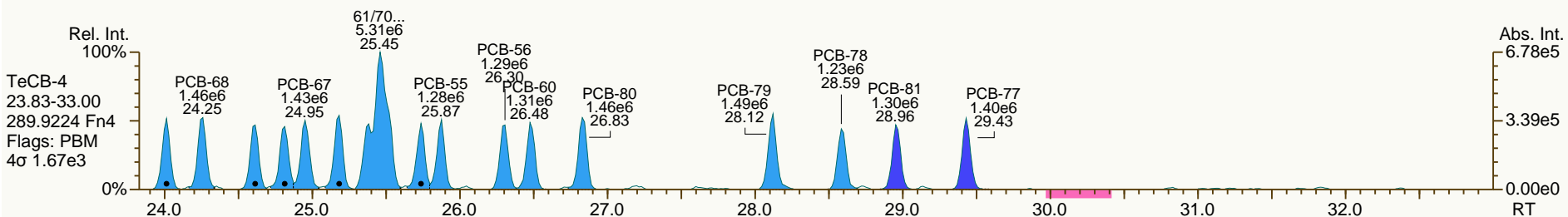
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

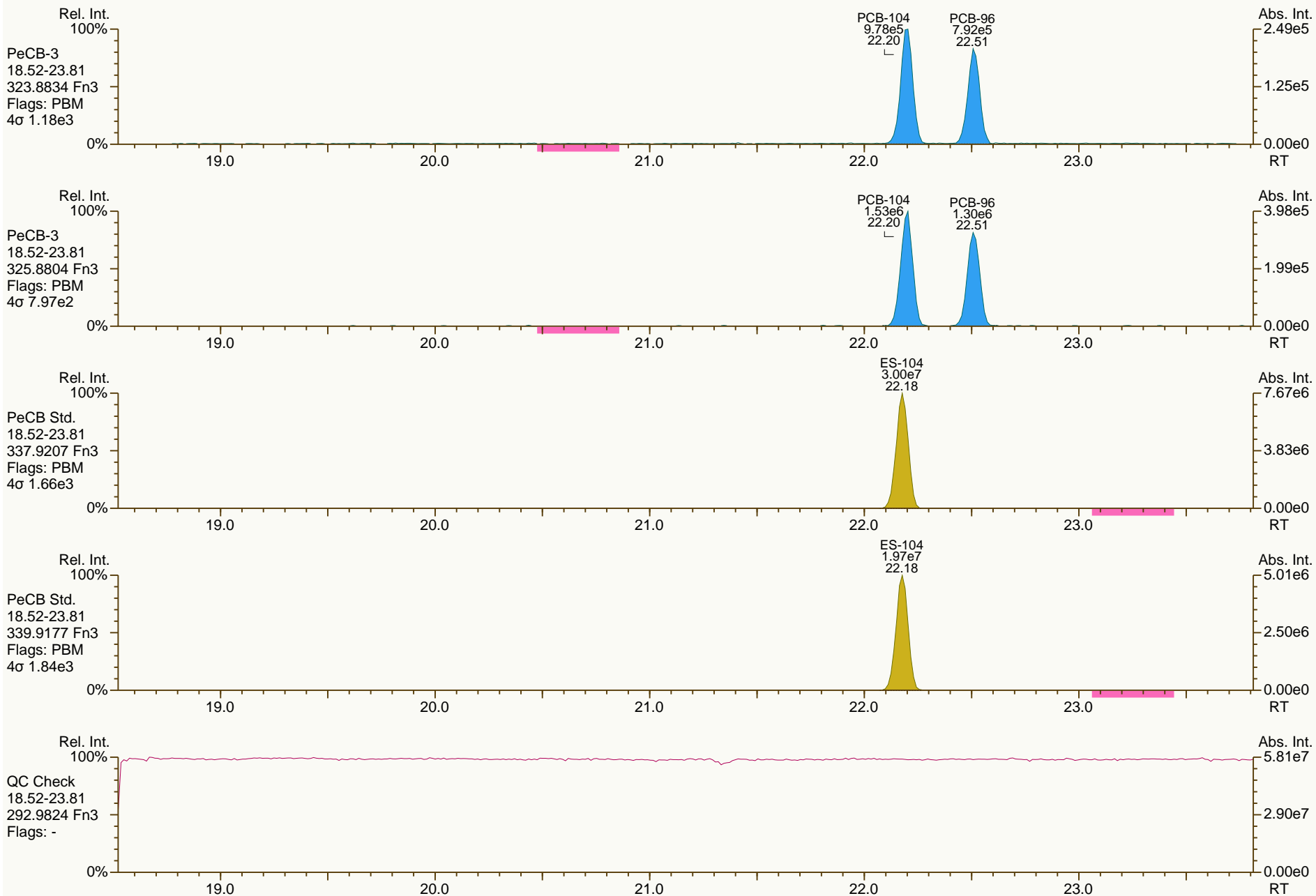
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SGS-AP ID: CS2_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
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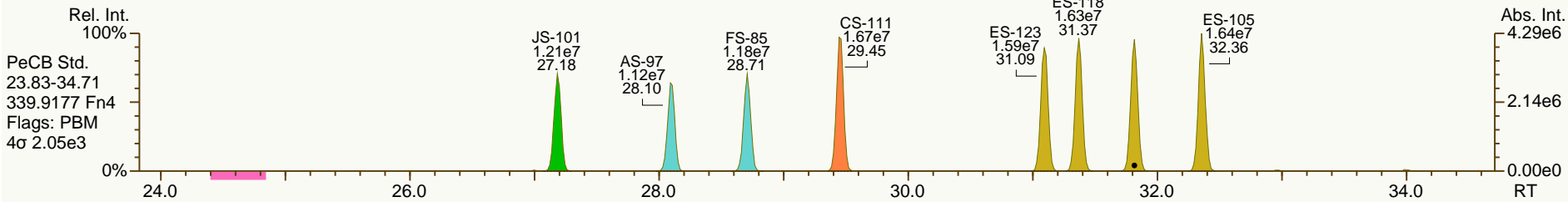
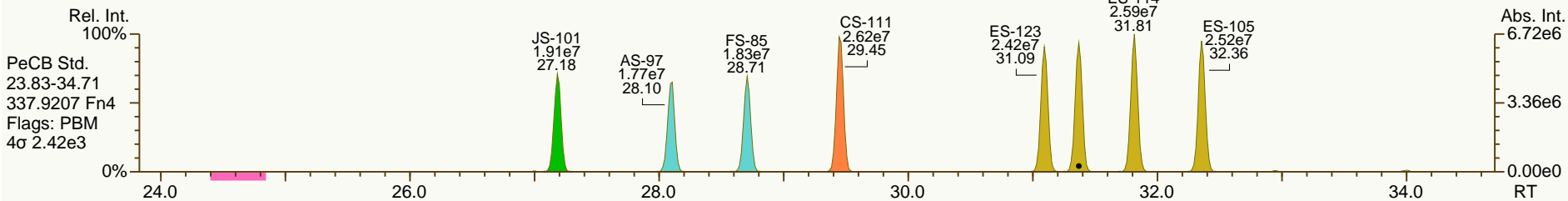
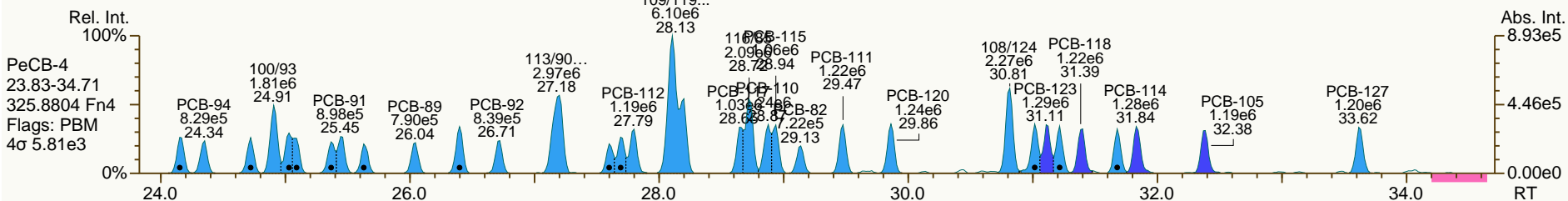
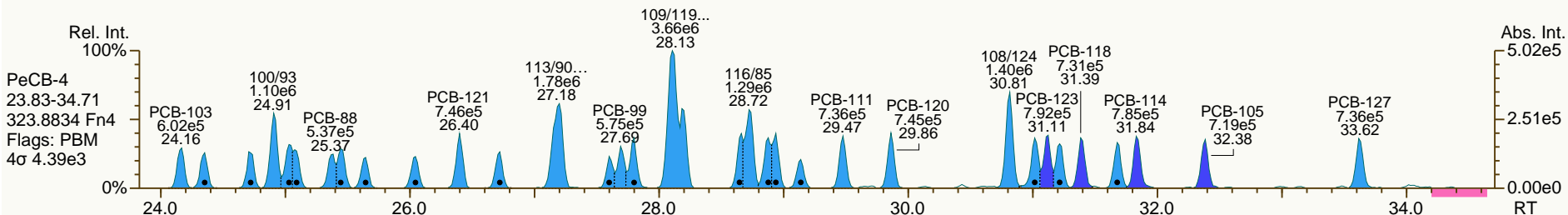
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SGS-AP ID: CS2_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

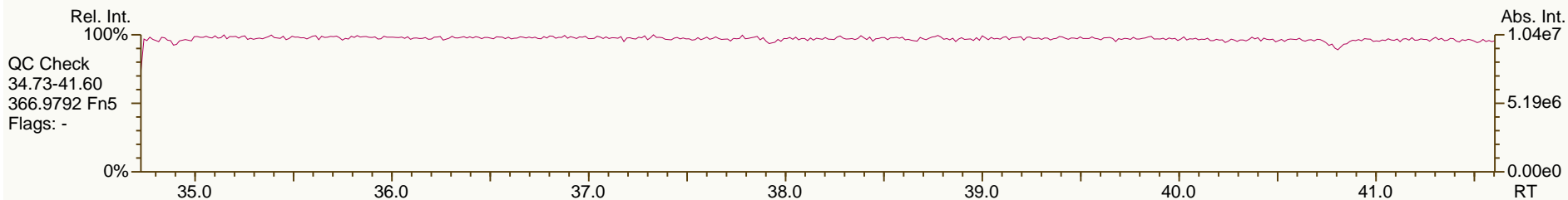
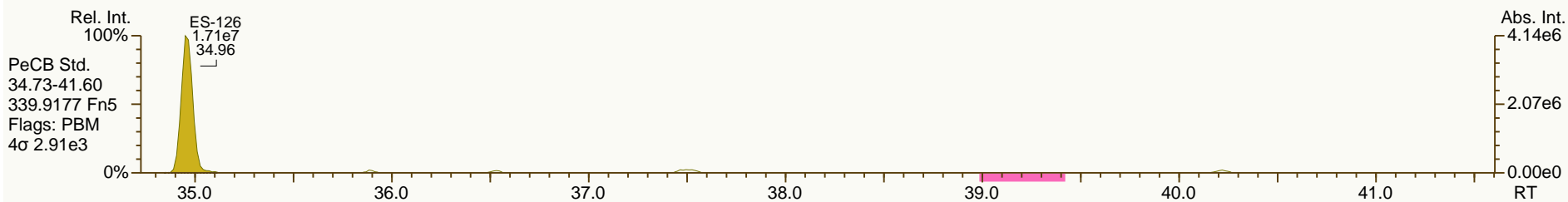
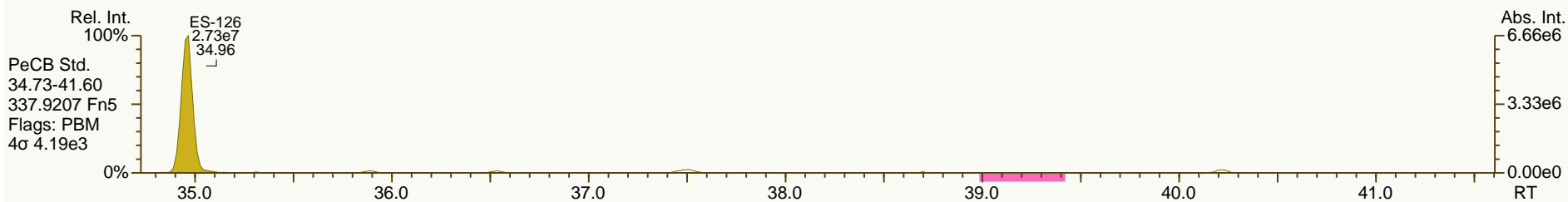
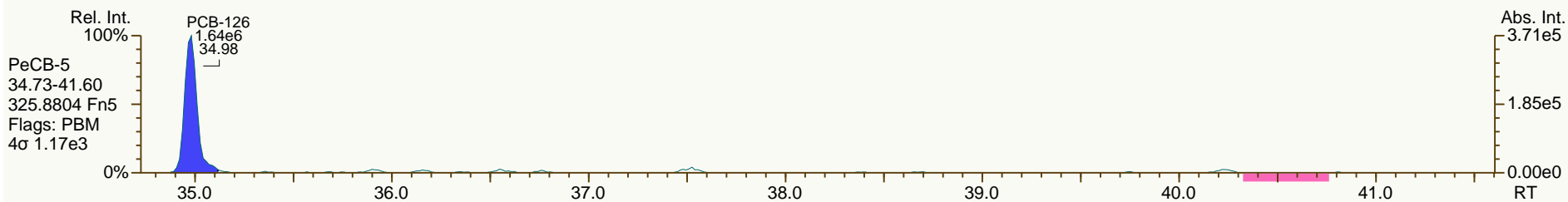
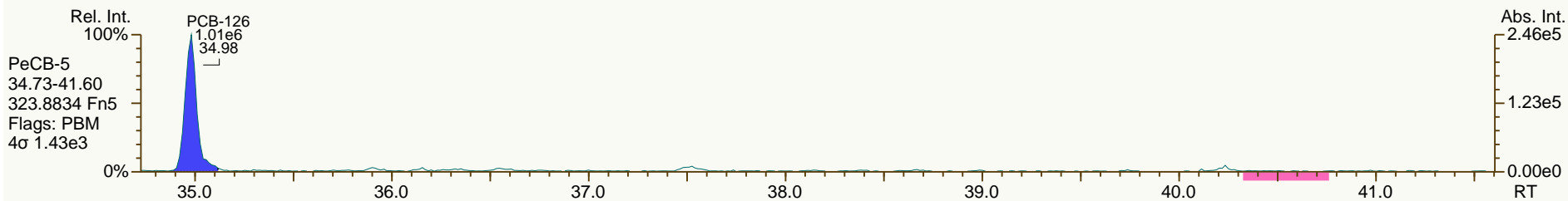
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SGS-AP ID: CS2_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

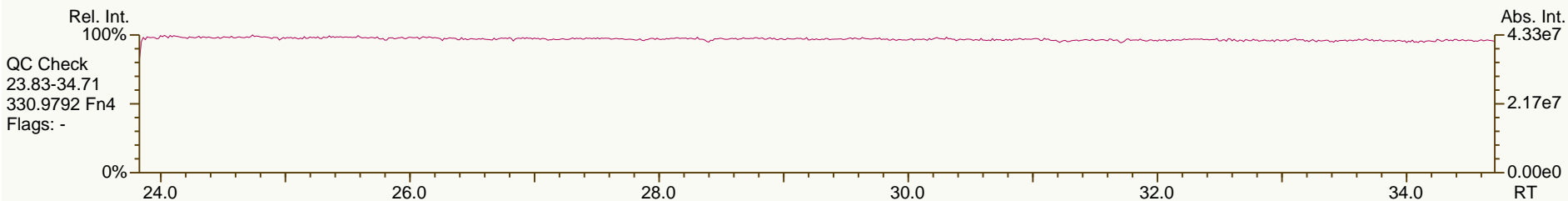
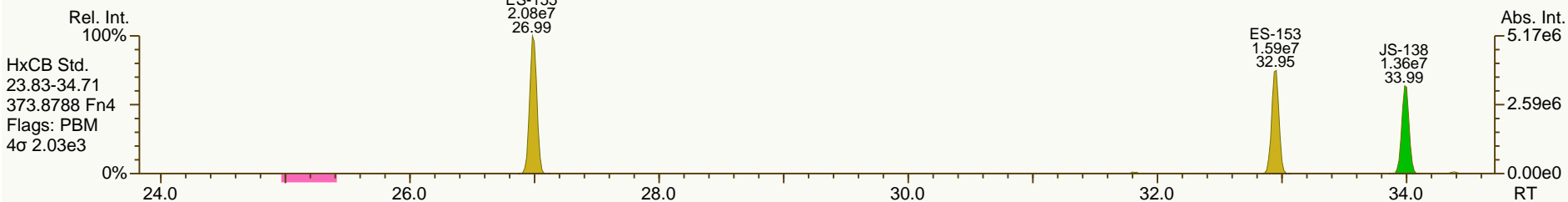
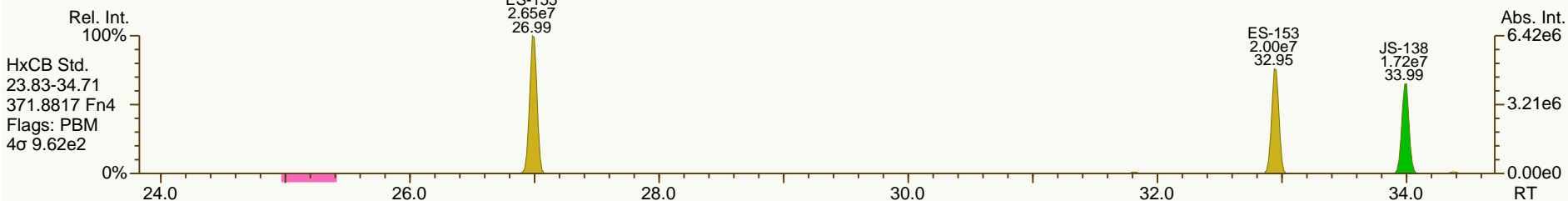
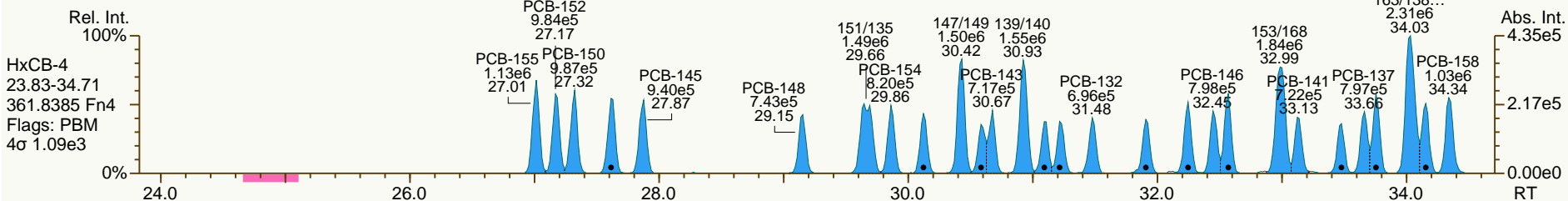
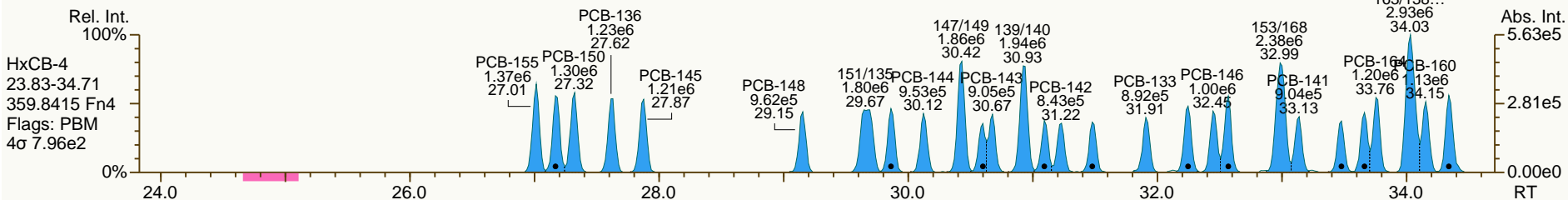
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

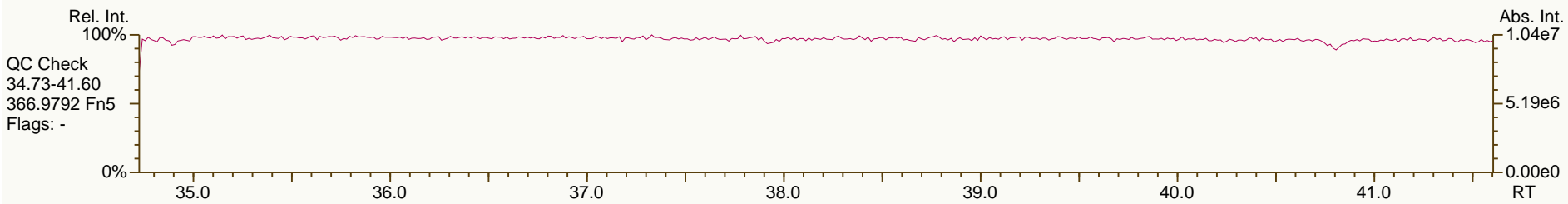
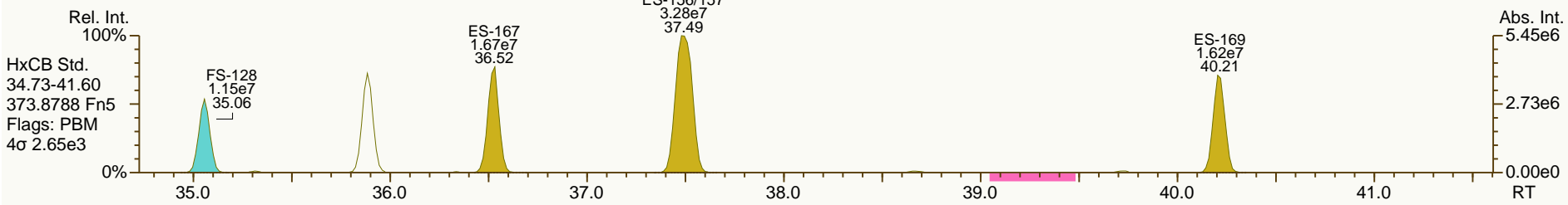
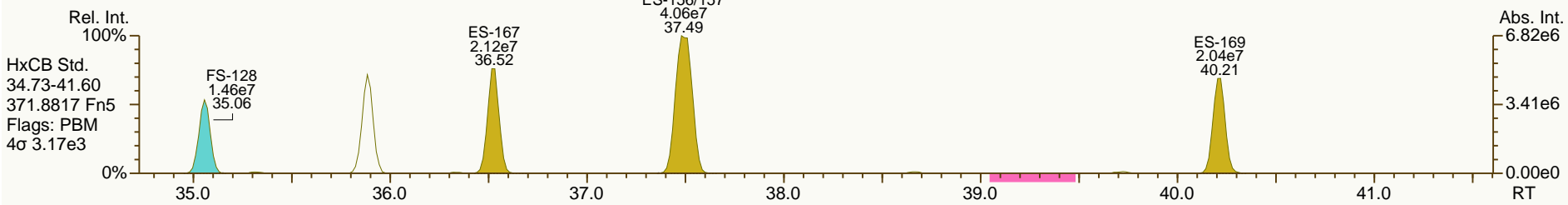
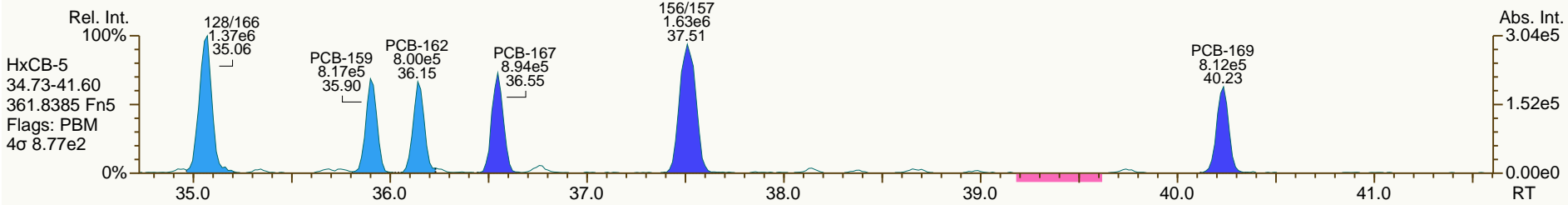
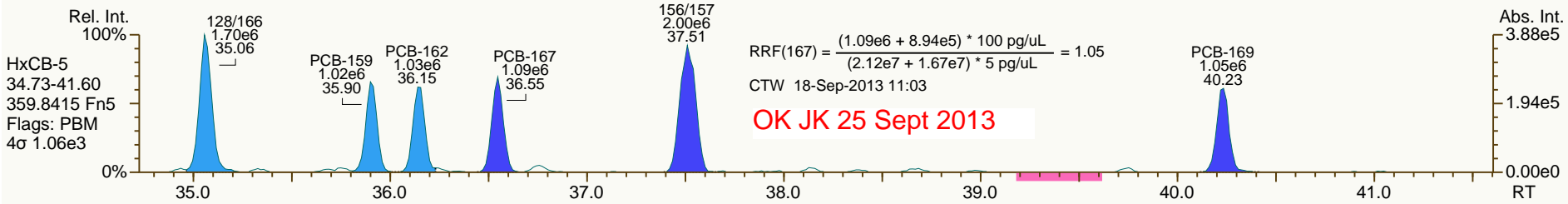
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

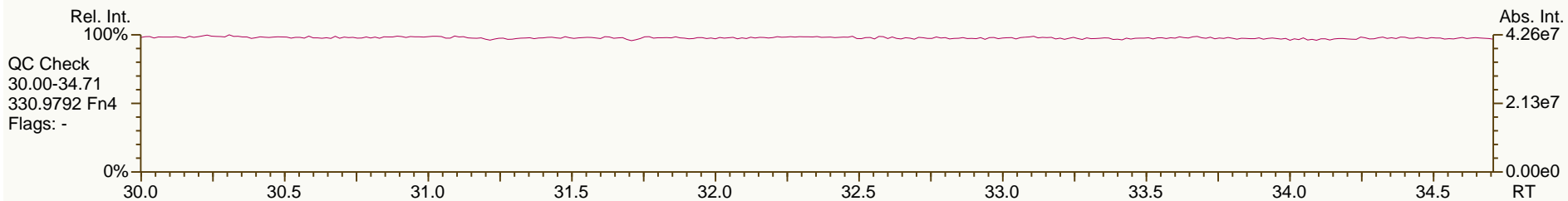
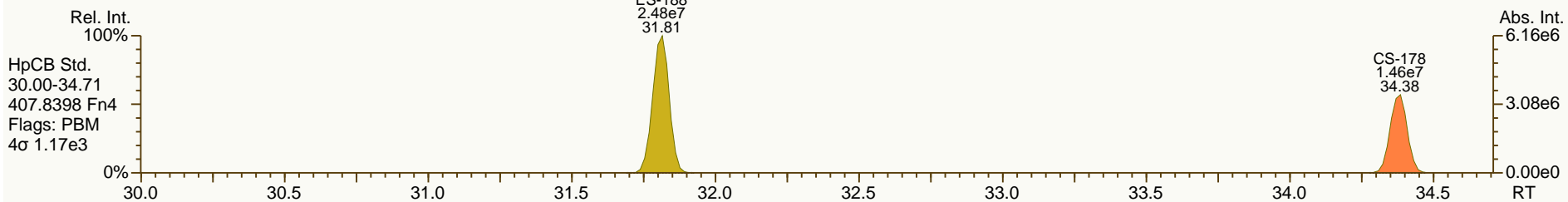
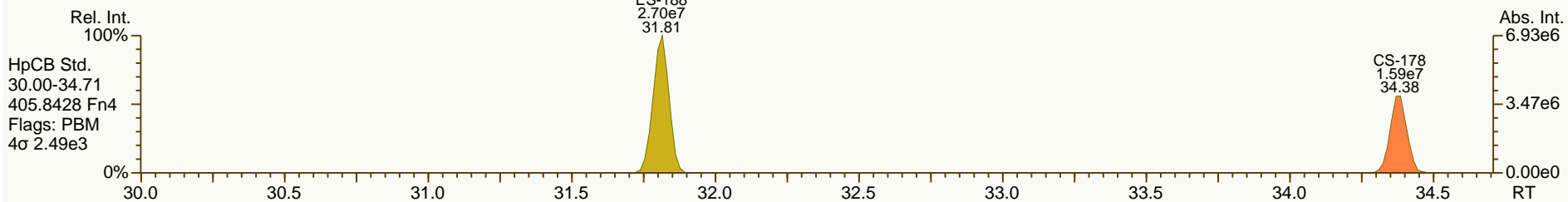
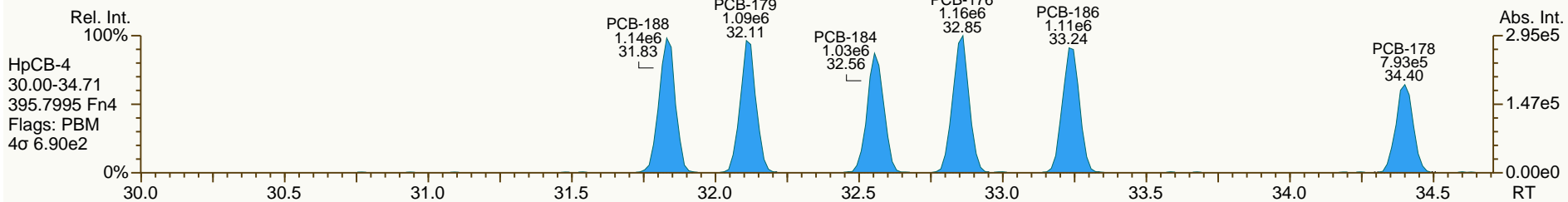
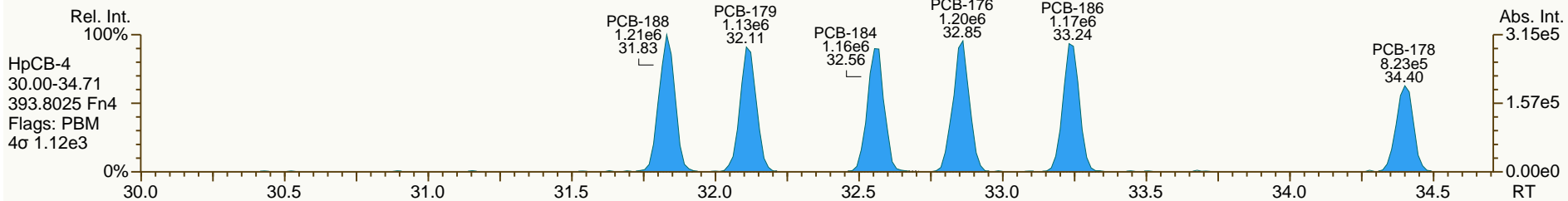
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

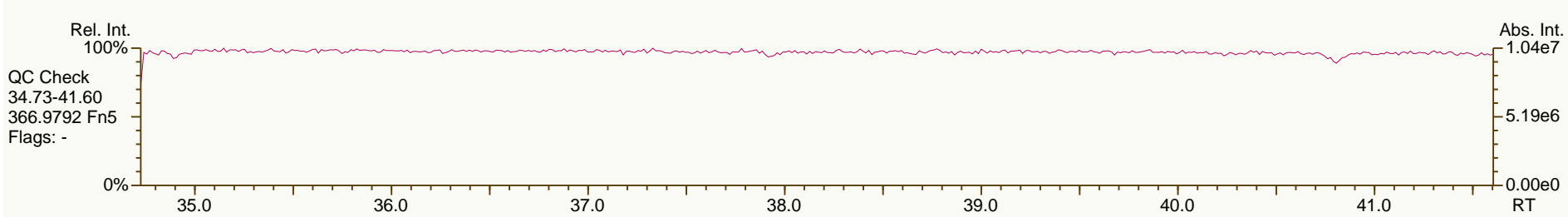
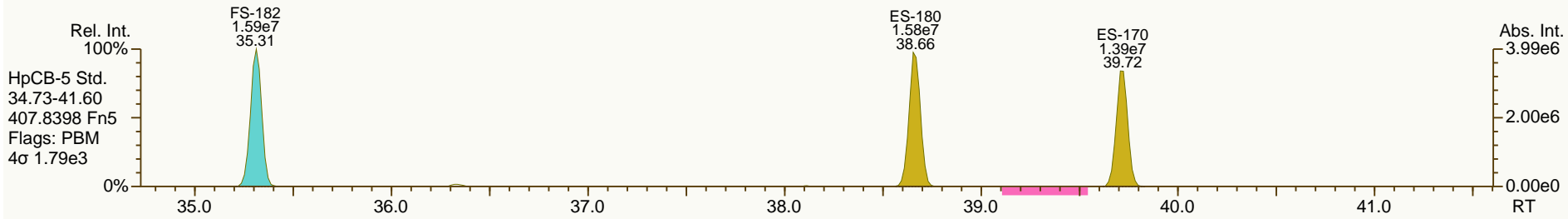
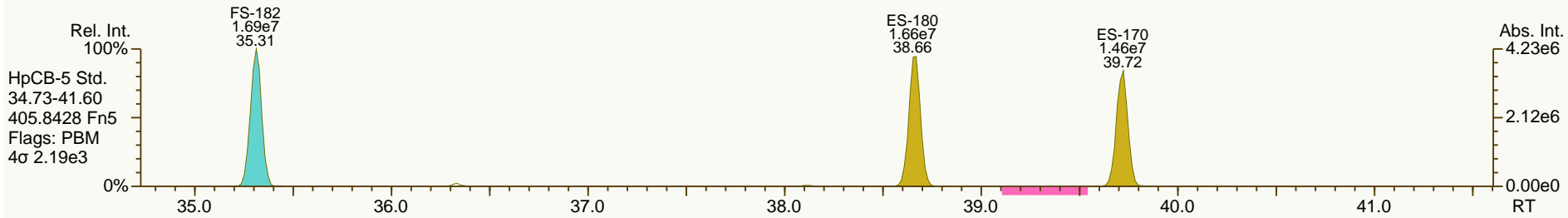
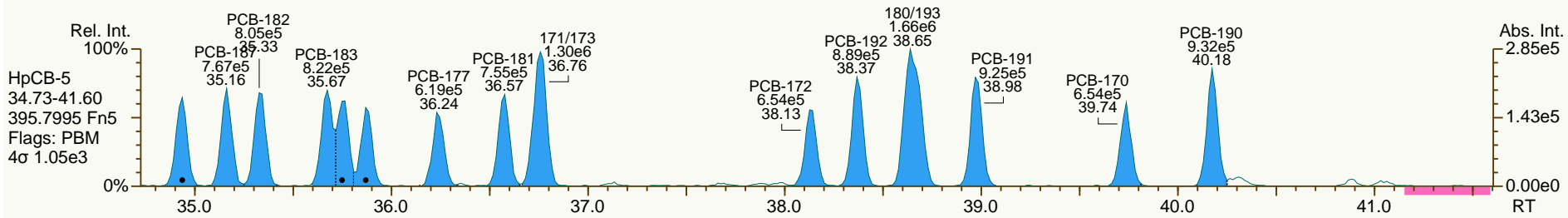
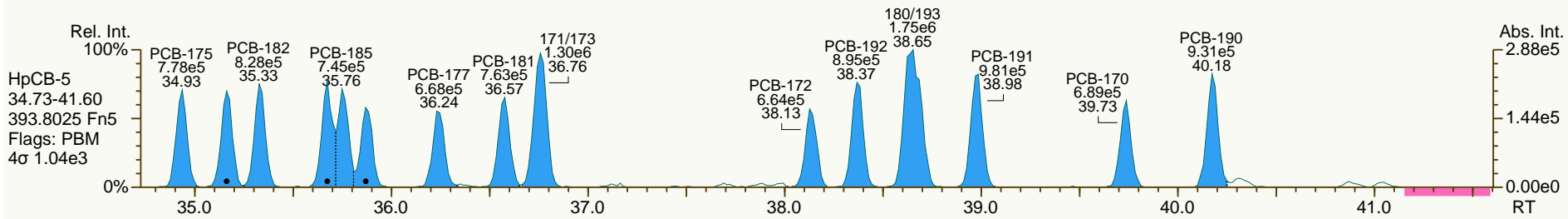
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
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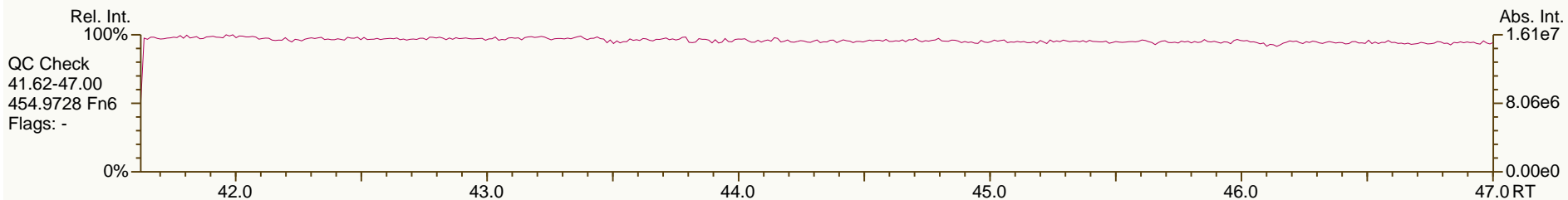
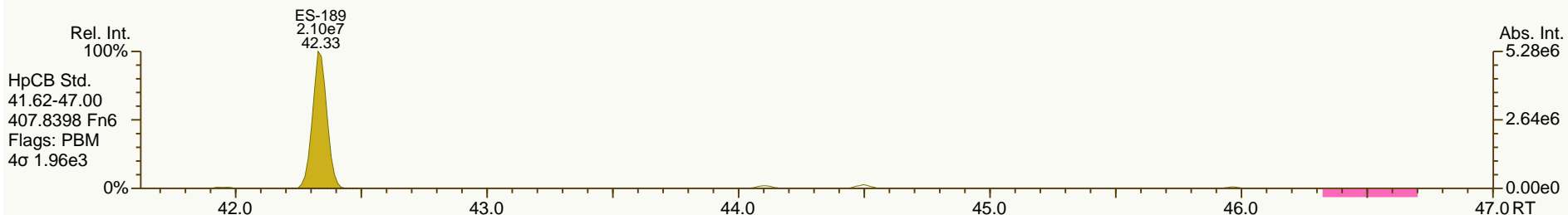
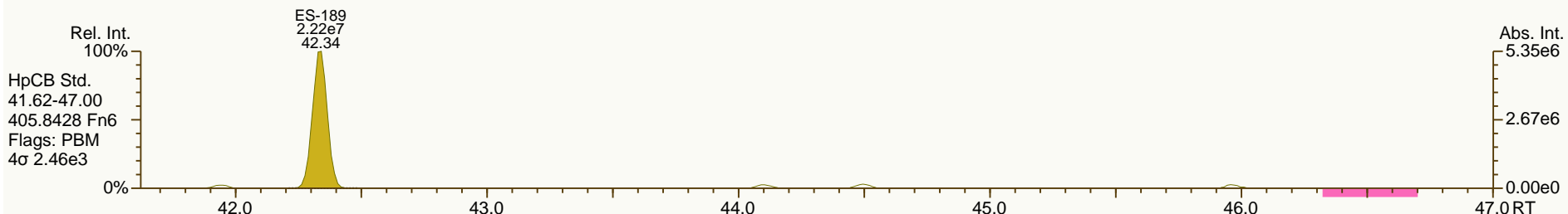
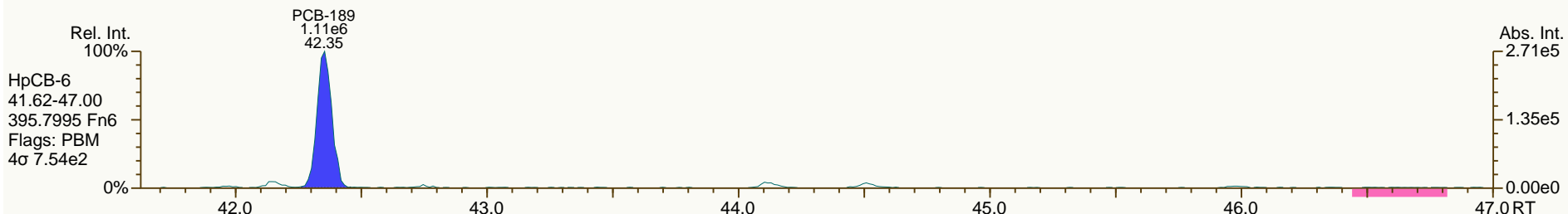
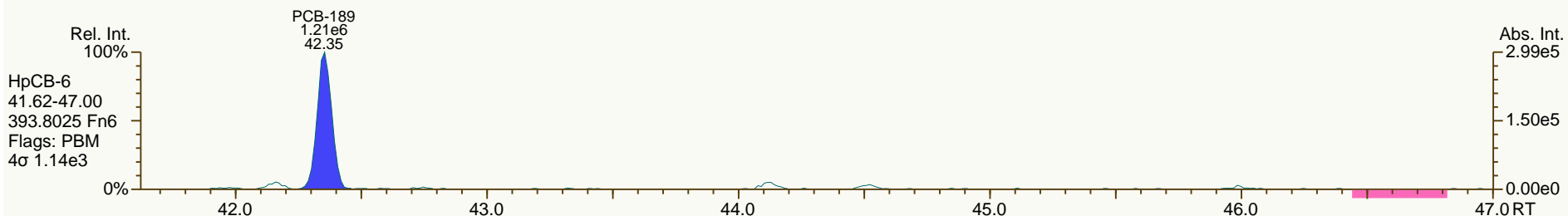
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SGS-AP ID: CS2_130911_PCB_SB
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Sample ID: SIL 13-40-4
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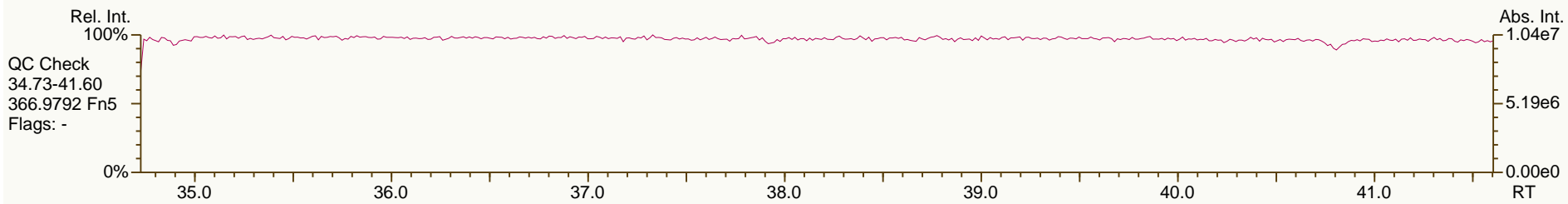
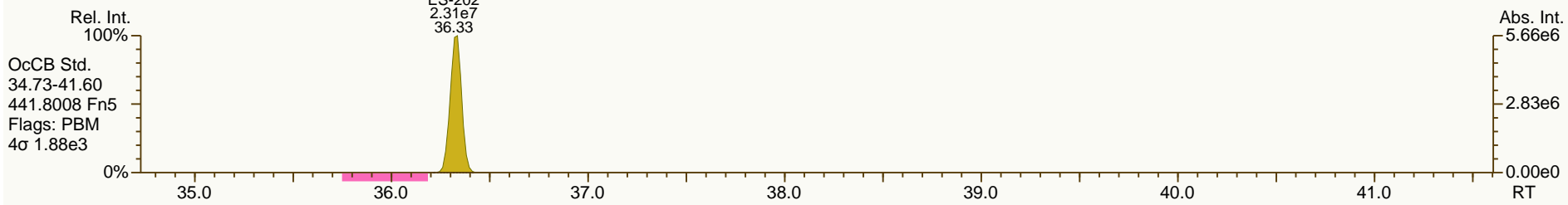
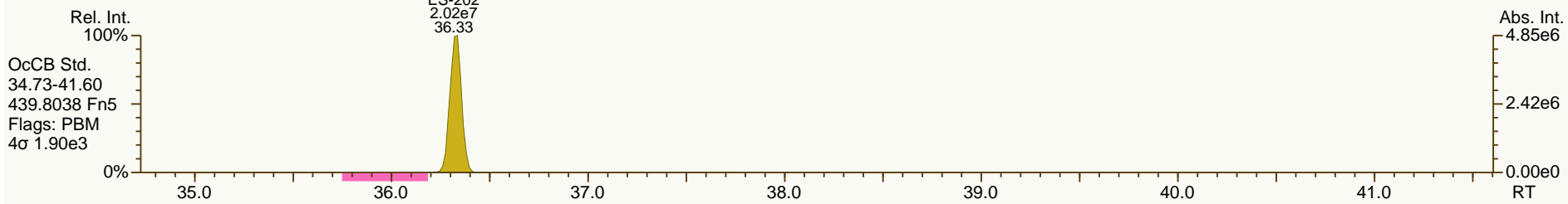
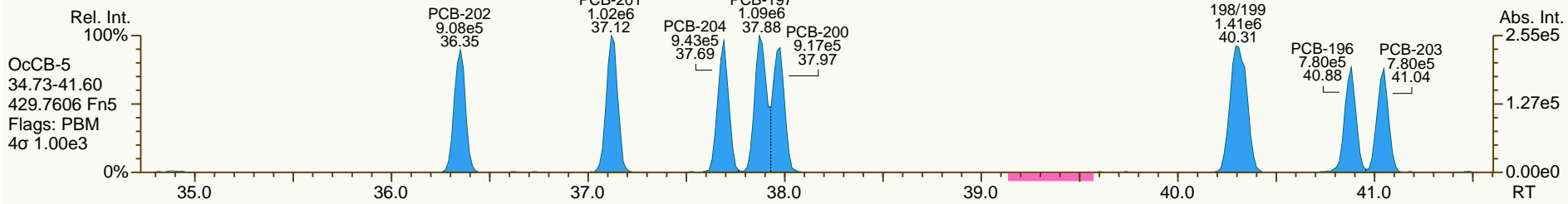
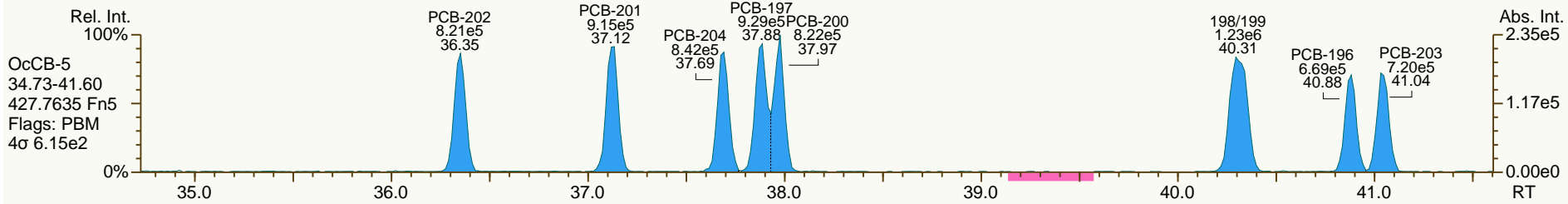
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
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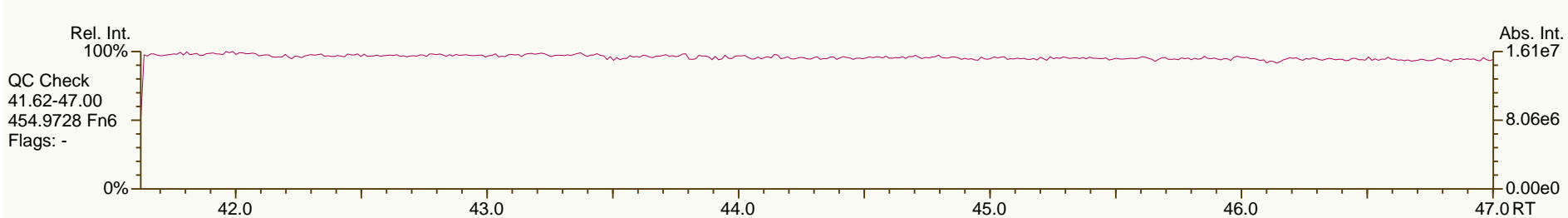
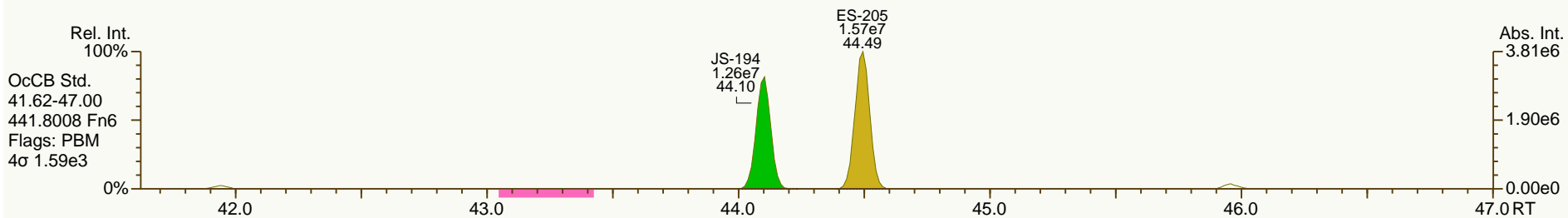
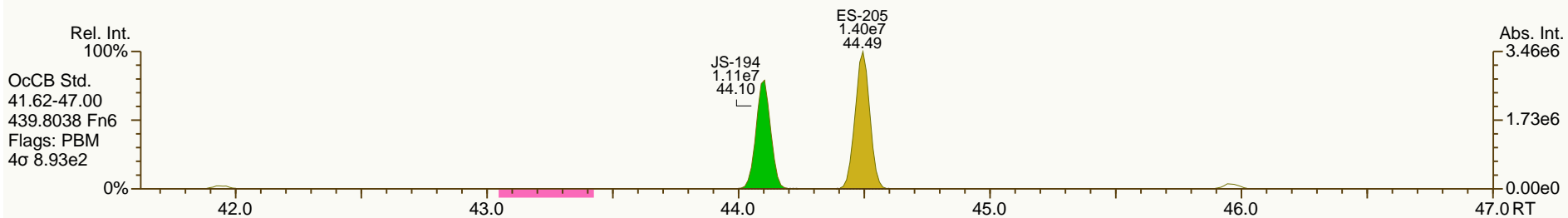
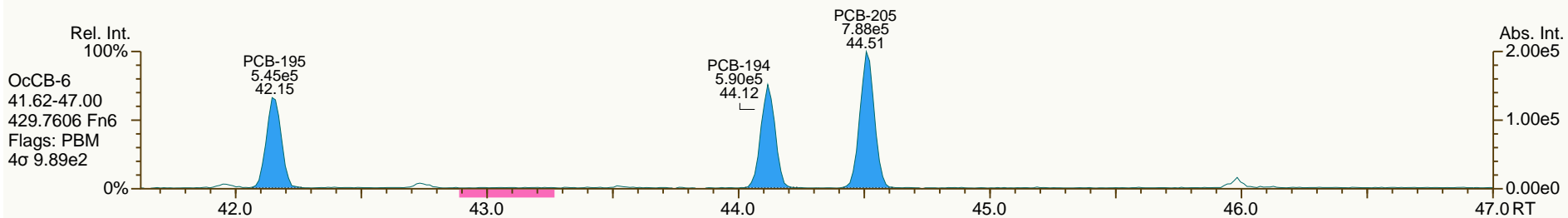
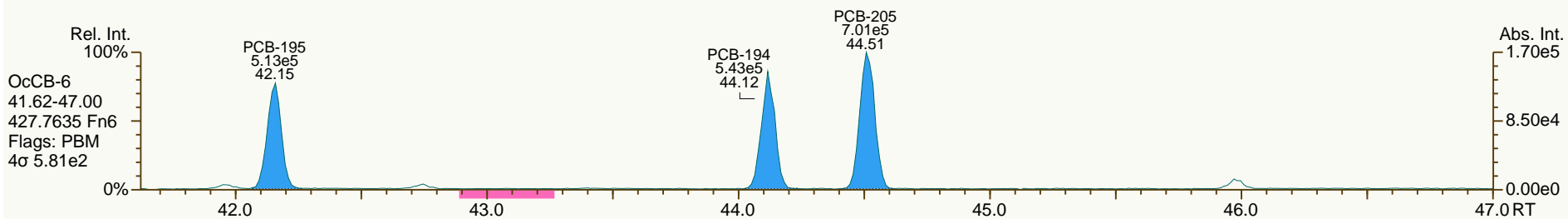
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
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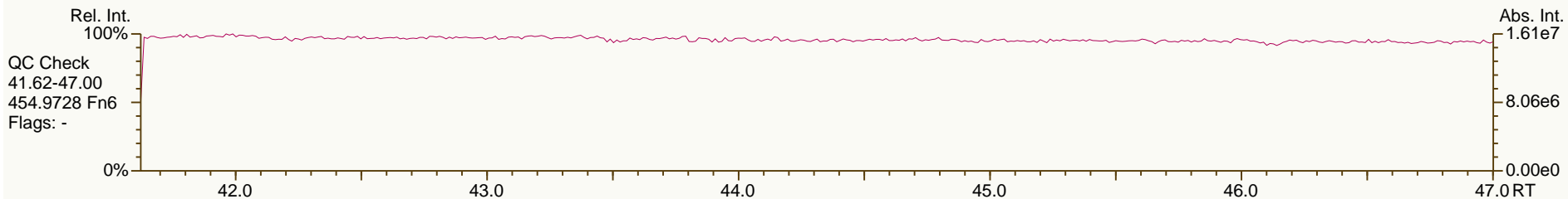
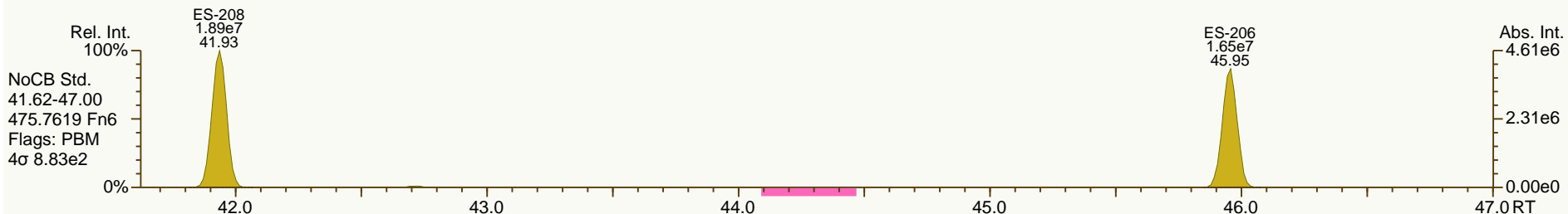
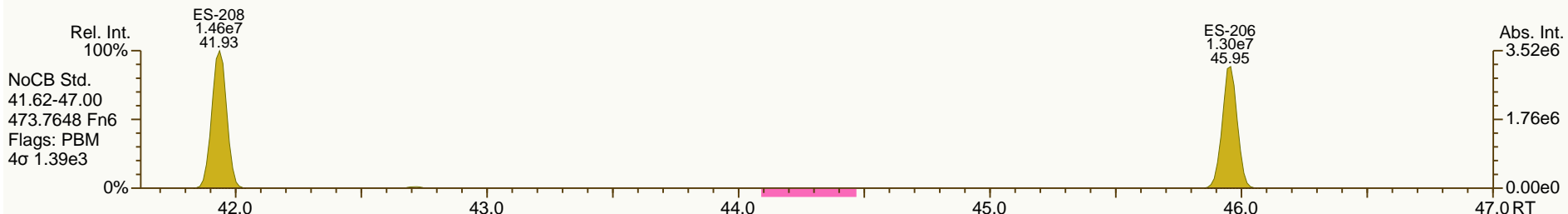
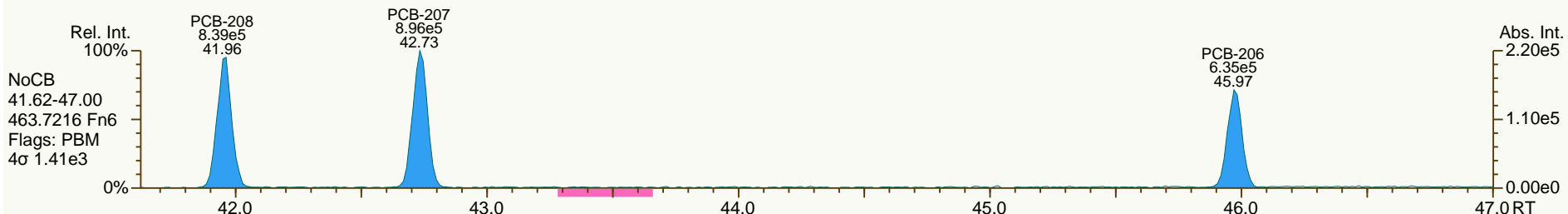
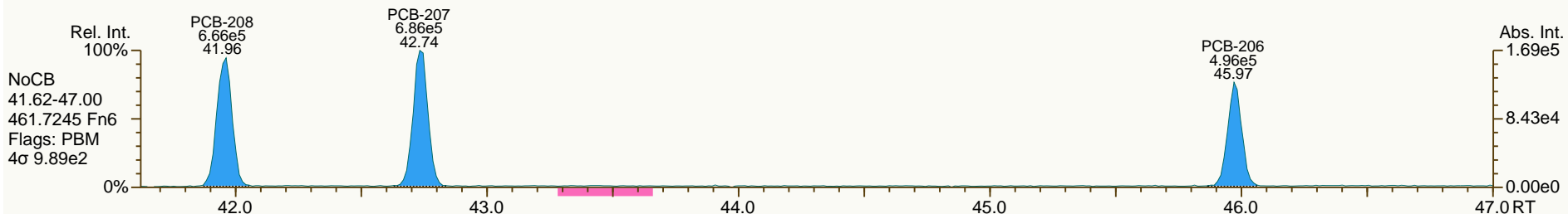
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

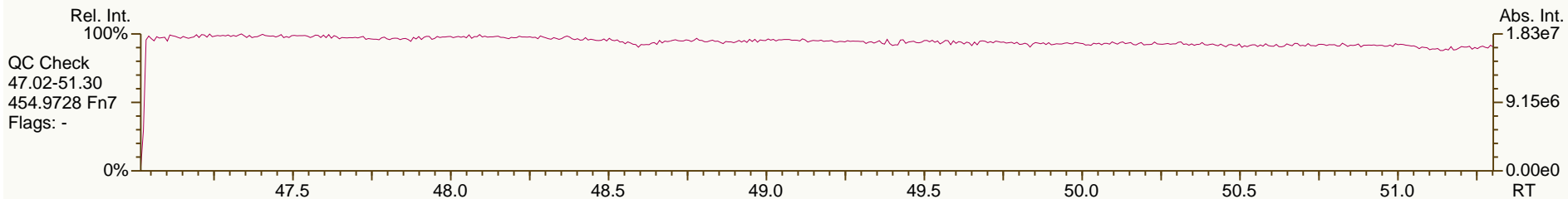
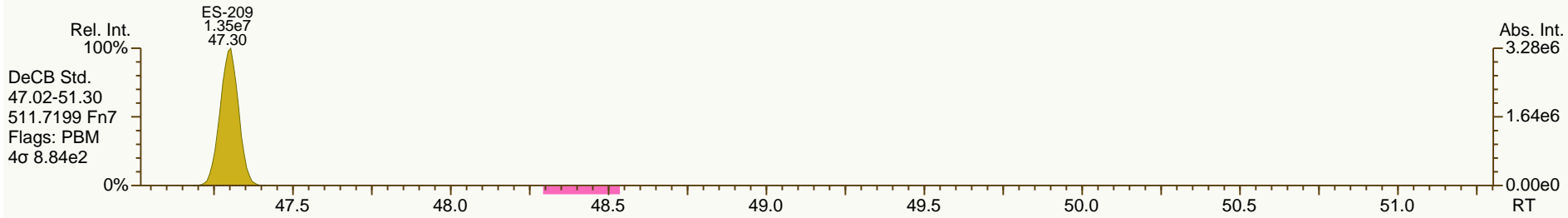
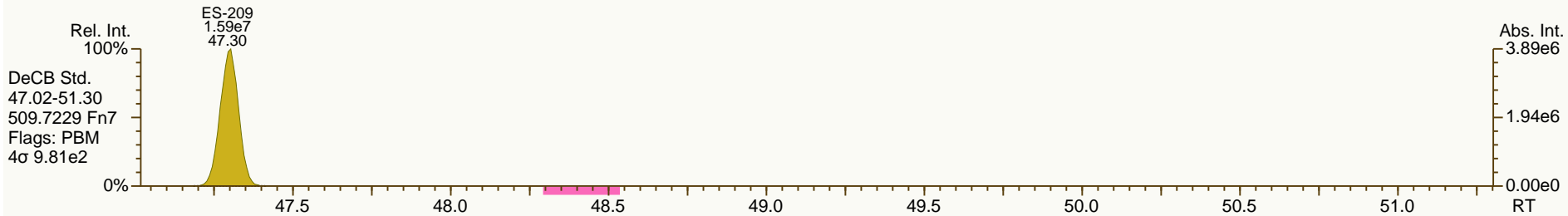
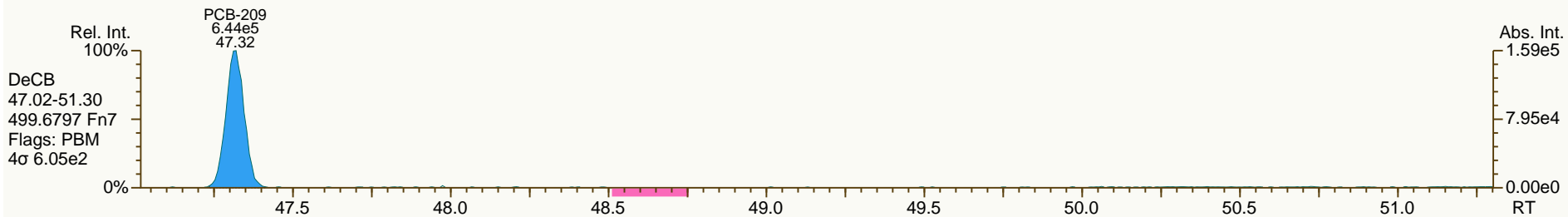
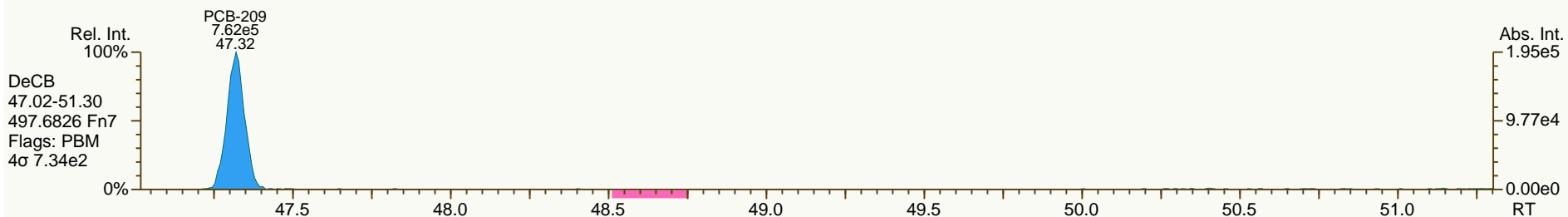
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

Acq: 11-Sep-2013 15:46:45
 User: CTW Datafile: 130911S05



PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:36		
Lab ID:	CS3_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 16:57						
Datafile:	130911S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	29.44	3.24E+07	0.78 Y	1.51	1.53	1.1%	
PCB-81 344'5'-TeCB	28.96	3.13E+07	0.78 Y	1.27	1.33	4.7%	
PCB-105 233'44'-PeCB	32.39	2.02E+07	0.63 Y	1.00	1.02	2.9%	
PCB-114 2344'5'-PeCB	31.84	2.15E+07	0.62 Y	1.06	1.08	1.7%	
PCB-118 23'44'5'-PeCB	31.40	2.08E+07	0.63 Y	1.01	1.06	5.1%	
PCB-123 23'44'5'-PeCB	31.12	2.01E+07	0.62 Y	1.06	1.07	1.2%	
PCB-126 33'44'5'-PeCB	34.99	2.69E+07	0.64 Y	1.26	1.27	1.0%	
PCB-156/157 ...-HxCB	37.52	3.82E+07	1.23 Y	1.06	1.09	2.1%	
PCB-167 23'44'55'-HxCB	36.55	2.04E+07	1.28 Y	1.12	1.13	1.3%	
PCB-169 33'44'55'-HxCB	40.24	1.92E+07	1.28 Y	1.09	1.11	1.8%	
PCB-189 233'44'55'-HpCB	42.36	2.43E+07	1.06 Y	1.15	1.19	3.1%	
PCB-209 DeCB	47.32	1.44E+07	1.18 Y	1.03	1.04	0.3%	
ES PCB-1	9.96	7.02E+07	3.19 Y	1.04	1.06	1.4%	
ES PCB-3	11.90	6.64E+07	3.25 Y	0.99	1.00	1.1%	
ES PCB-4	12.12	4.74E+07	1.57 Y	0.71	0.71	0.4%	
ES PCB-15	17.24	7.22E+07	1.64 Y	1.09	1.09	-0.2%	
ES PCB-19	14.83	3.94E+07	1.04 Y	0.59	0.59	0.4%	
ES PCB-37	23.23	5.27E+07	1.08 Y	1.32	1.35	2.4%	
ES PCB-54	17.49	5.17E+07	0.78 Y	1.35	1.32	-2.0%	
ES PCB-77	29.42	4.25E+07	0.80 Y	1.07	1.09	1.8%	
ES PCB-81	28.95	4.70E+07	0.80 Y	1.19	1.20	1.1%	
ES PCB-104	22.18	4.73E+07	1.59 Y	1.62	1.60	-1.1%	
ES PCB-105	32.36	3.94E+07	1.56 Y	1.30	1.34	2.7%	
ES PCB-114	31.82	3.98E+07	1.56 Y	1.32	1.35	2.4%	
ES PCB-118	31.37	3.93E+07	1.58 Y	1.30	1.33	2.1%	
ES PCB-123	31.10	3.75E+07	1.55 Y	1.26	1.27	0.8%	
ES PCB-126	34.97	4.23E+07	1.57 Y	1.41	1.43	1.9%	
ES PCB-153	32.95	3.29E+07	1.28 Y	1.15	1.14	-1.2%	
ES PCB-155	27.00	4.36E+07	1.28 Y	1.53	1.51	-1.4%	
ES PCB-156/157	37.50	7.04E+07	1.25 Y	1.19	1.22	2.7%	
ES PCB-167	36.53	3.60E+07	1.26 Y	1.22	1.25	2.0%	
ES PCB-169	40.22	3.48E+07	1.25 Y	1.18	1.21	1.9%	
ES PCB-170	39.72	2.71E+07	1.05 Y	1.22	1.23	0.6%	
ES PCB-180	38.67	3.10E+07	1.08 Y	1.41	1.41	-0.2%	
ES PCB-188	31.82	4.87E+07	1.07 Y	1.71	1.69	-1.1%	
ES PCB-189	42.34	4.08E+07	1.07 Y	1.84	1.85	0.7%	
ES PCB-202	36.33	4.06E+07	0.86 Y	1.42	1.41	-0.8%	
ES PCB-205	44.50	2.83E+07	0.90 Y	1.25	1.28	2.2%	
ES PCB-206	45.96	2.75E+07	0.77 Y	1.24	1.25	0.9%	
ES PCB-208	41.94	3.19E+07	0.78 Y	1.42	1.45	2.0%	
ES PCB-209	47.30	2.78E+07	1.16 Y	1.23	1.26	2.1%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:36		
Lab ID:	CS3_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 16:57						
Datafile:	130911S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	19.83	5.48E+07	1.09 Y	1.06	1.04	-2.1%	
SS PCB-111	29.46	3.96E+07	1.54 Y	1.06	1.05	-0.6%	
SS PCB-178	34.38	2.87E+07	1.07 Y	0.58	0.59	1.3%	
CS PCB-28	19.83	5.48E+07	1.09 Y	1.40	1.40	0.2%	
CS PCB-111	29.46	3.96E+07	1.54 Y	1.34	1.34	0.2%	
CS PCB-178	34.38	2.87E+07	1.07 Y	0.99	1.00	0.2%	
JS PCB-9	13.85	6.64E+07	1.62 Y	-	-	-	
JS PCB-52	21.38	3.91E+07	0.77 Y	-	-	-	
JS PCB-101	27.19	2.95E+07	1.57 Y	-	-	-	
JS PCB-138	34.00	2.89E+07	1.30 Y	-	-	-	
JS PCB-194	44.10	2.20E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	9.98	4.19E+07	3.17 Y	1.20	1.19	-0.2%	
PCB-3 4-MoCB	11.91	4.17E+07	3.19 Y	1.24	1.26	1.5%	
PCB-4 22'-DiCB	12.13	2.29E+07	1.54 Y	0.97	0.97	-0.4%	
PCB-15 44'-DiCB	17.25	4.40E+07	1.60 Y	1.23	1.22	-0.8%	
PCB-19 22'6'-TrCB	14.85	1.91E+07	1.05 Y	0.97	0.97	0.3%	
PCB-37 344'-TrCB	23.25	3.46E+07	1.08 Y	1.28	1.31	2.3%	
PCB-54 22'66'-TeCB	17.50	2.67E+07	0.78 Y	1.00	1.03	3.3%	
PCB-104 22'466'-PeCB	22.20	2.54E+07	0.63 Y	1.06	1.07	1.6%	
PCB-153/168 ...-HxCB	33.00	4.28E+07	1.25 Y	1.26	1.30	3.5%	
PCB-155 22'44'66'-HxCB	27.02	2.56E+07	1.26 Y	1.12	1.17	4.4%	
PCB-170 22'33'44'5'-HpCB	39.74	1.40E+07	1.05 Y	1.01	1.03	2.4%	
PCB-180/193 ...-HpCB	38.66	3.50E+07	1.03 Y	1.11	1.13	1.8%	
PCB-188 22'34'566'-HpCB	31.84	2.44E+07	1.05 Y	0.97	1.00	3.4%	
PCB-202 22'33'55'66'-OcCB	36.35	1.76E+07	0.90 Y	0.83	0.87	4.6%	
PCB-205 233'44'55'6'-OcCB	44.52	1.56E+07	0.91 Y	1.08	1.10	2.2%	
PCB-208 22'33'455'66'-NoCB	41.96	1.57E+07	0.79 Y	0.99	0.99	-0.7%	
PCB-206 22'33'44'55'6'-NoCB	45.98	1.15E+07	0.77 Y	0.83	0.84	0.7%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS3_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 16:57						
Datafile:	130911S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	9.98	4.19E+07	3.17 Y	1.20	1.19	-0.2%	
PCB-2 3-MoCB	11.75	4.21E+07	3.21 Y	1.25	1.27	1.7%	
PCB-3 4-MoCB	11.91	4.17E+07	3.19 Y	1.24	1.26	1.5%	
PCB-4 22'-DiCB	12.13	2.29E+07	1.54 Y	0.97	0.97	-0.4%	
PCB-10 26'-DiCB	12.28	3.55E+07	1.54 Y	1.51	1.50	-0.8%	
PCB-9 25'-DiCB	13.87	3.86E+07	1.61 Y	1.06	1.07	0.9%	
PCB-7 24'-DiCB	14.01	4.47E+07	1.54 Y	1.23	1.24	0.5%	
PCB-6 23'-DiCB	14.22	4.15E+07	1.55 Y	1.14	1.15	1.3%	
PCB-5 23'-DiCB	14.48	4.19E+07	1.56 Y	1.15	1.16	1.1%	
PCB-8 24'-DiCB	14.59	4.26E+07	1.57 Y	1.18	1.18	0.5%	
PCB-14 35'-DiCB	16.00	4.88E+07	1.59 Y	1.31	1.35	3.1%	
PCB-11 33'-DiCB	16.72	4.20E+07	1.55 Y	1.17	1.16	-0.6%	
PCB-13/12 34'/34'-DiCB	16.98	8.50E+07	1.55 Y	1.17	1.18	1.1%	
PCB-15 44'-DiCB	17.25	4.40E+07	1.60 Y	1.23	1.22	-0.8%	
PCB-19 22'6'-TrCB	14.85	1.91E+07	1.05 Y	0.97	0.97	0.3%	
PCB-30/18 246/22'5'-TrCB	16.45	4.97E+07	1.04 Y	1.23	1.26	2.2%	
PCB-17 22'4'-TrCB	16.82	2.12E+07	1.04 Y	1.06	1.08	2.2%	
PCB-27 23'6'-TrCB	17.00	2.91E+07	1.04 Y	1.44	1.48	2.5%	
PCB-24 236'-TrCB	17.12	2.79E+07	1.03 Y	1.37	1.42	3.7%	
PCB-16 22'3'-TrCB	17.21	1.63E+07	1.03 Y	0.80	0.83	2.9%	
PCB-32 24'6'-TrCB	17.65	3.17E+07	1.04 Y	1.59	1.61	1.4%	
PCB-34 23'5'-TrCB	18.74	3.41E+07	1.07 Y	1.26	1.29	2.3%	
PCB-23 235'-TrCB	18.87	3.51E+07	1.07 Y	1.31	1.33	1.8%	
PCB-26/29 23'5'/245'-TrCB	19.14	7.10E+07	1.07 Y	1.33	1.35	1.0%	
PCB-25 23'4'-TrCB	19.33	3.60E+07	1.06 Y	1.33	1.36	2.5%	
PCB-31 24'5'-TrCB	19.59	3.69E+07	1.07 Y	1.39	1.40	1.0%	
PCB-28/20 244'/233'-TrCB	19.86	6.94E+07	1.06 Y	1.30	1.32	1.4%	
PCB-21/33 234/23'4'-TrCB	20.02	7.16E+07	1.07 Y	1.34	1.36	1.2%	
PCB-22 234'-TrCB	20.38	3.31E+07	1.07 Y	1.22	1.25	3.1%	
PCB-36 33'5'-TrCB	21.71	3.64E+07	1.07 Y	1.35	1.38	2.5%	
PCB-39 34'5'-TrCB	22.02	3.75E+07	1.08 Y	1.40	1.42	2.0%	
PCB-38 345'-TrCB	22.51	3.39E+07	1.08 Y	1.25	1.29	3.0%	
PCB-35 33'4'-TrCB	22.90	3.32E+07	1.07 Y	1.23	1.26	2.3%	
PCB-37 344'-TrCB	23.25	3.46E+07	1.08 Y	1.28	1.31	2.3%	
PCB-54 22'66'-TeCB	17.50	2.67E+07	0.78 Y	1.00	1.03	3.3%	
PCB-50/53 22'46'/22'56'-TeCB	19.37	3.91E+07	0.77 Y	0.82	0.83	1.8%	
PCB-45 22'36'-TeCB	19.93	1.83E+07	0.77 Y	0.73	0.78	6.6%	
PCB-51 22'46'-TeCB	19.99	1.82E+07	0.78 Y	0.79	0.77	-2.7%	
PCB-46 22'36'-TeCB	20.19	1.58E+07	0.77 Y	0.66	0.67	1.9%	
PCB-52 22'55'-TeCB	21.41	1.91E+07	0.77 Y	0.79	0.81	2.8%	
PCB-73 23'5'6'-TeCB	21.53	2.49E+07	0.77 Y	1.06	1.06	-0.1%	
PCB-43 22'35'-TeCB	21.61	1.57E+07	0.77 Y	0.64	0.67	4.3%	
PCB-69/49 23'46'/22'45'-TeCB	21.80	4.56E+07	0.77 Y	0.95	0.97	2.3%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS3_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 16:57						
Datafile:	130911S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.06	1.90E+07	0.77 Y	0.79	0.81	2.9%	
PCB-44/47/65 ...-TeCB	22.27	6.06E+07	0.78 Y	0.84	0.86	2.2%	
PCB-59/62/75 ...-TeCB	22.53	7.74E+07	0.77 Y	1.07	1.10	2.2%	
PCB-42 22'34'-TeCB	22.69	1.74E+07	0.77 Y	0.72	0.74	2.9%	
PCB-41 22'34'-TeCB	23.01	1.53E+07	0.77 Y	0.66	0.65	-0.9%	
PCB-71/40 23'4'6/22'33'-TeCB	23.11	3.92E+07	0.78 Y	0.79	0.83	4.9%	
PCB-64 23'4'6'-TeCB	23.30	2.76E+07	0.77 Y	1.13	1.17	3.4%	
PCB-72 23'55'-TeCB	24.02	3.22E+07	0.79 Y	1.31	1.37	4.5%	
PCB-68 23'45'-TeCB	24.26	3.45E+07	0.80 Y	1.43	1.47	2.8%	
PCB-57 23'35'-TeCB	24.61	3.05E+07	0.79 Y	1.26	1.30	3.0%	
PCB-58 23'35'-TeCB	24.81	3.19E+07	0.80 Y	1.30	1.36	4.1%	
PCB-67 23'45'-TeCB	24.96	3.26E+07	0.80 Y	1.35	1.39	3.1%	
PCB-63 23'45'-TeCB	25.18	3.43E+07	0.79 Y	1.42	1.46	2.7%	
PCB-61/70/74/76 ...-TeCB	25.46	1.27E+08	0.78 Y	1.32	1.35	2.5%	
PCB-66 23'44'-TeCB	25.74	3.02E+07	0.79 Y	1.26	1.29	2.0%	
PCB-55 23'34'-TeCB	25.88	3.03E+07	0.80 Y	1.24	1.29	4.3%	
PCB-56 23'34'-TeCB	26.31	2.95E+07	0.80 Y	1.22	1.25	2.5%	
PCB-60 23'44'-TeCB	26.49	3.07E+07	0.79 Y	1.29	1.31	1.6%	
PCB-80 33'55'-TeCB	26.84	3.50E+07	0.80 Y	1.42	1.49	4.8%	
PCB-79 33'45'-TeCB	28.13	3.59E+07	0.79 Y	1.47	1.53	4.1%	
PCB-78 33'45'-TeCB	28.59	2.95E+07	0.79 Y	1.23	1.26	1.7%	
PCB-104 22'466'-PeCB	22.20	2.54E+07	0.63 Y	1.06	1.07	1.6%	
PCB-96 22'366'-PeCB	22.52	2.20E+07	0.62 Y	0.90	0.93	3.1%	
PCB-103 22'45'6'-PeCB	24.16	1.63E+07	0.63 Y	0.84	0.87	3.4%	
PCB-94 22'356'-PeCB	24.35	1.41E+07	0.61 Y	0.73	0.75	3.0%	
PCB-95 22'35'6'-PeCB	24.72	1.50E+07	0.62 Y	0.78	0.80	2.5%	
PCB-100/93 22'44'6/22'356'-PeCB	24.91	3.05E+07	0.62 Y	0.77	0.81	5.0%	
PCB-102 22'456'-PeCB	25.03	1.52E+07	0.60 Y	0.83	0.81	-3.0%	
PCB-98 22'34'6'-PeCB	25.09	1.52E+07	0.63 Y	0.75	0.81	7.7%	
PCB-88 22'346'-PeCB	25.38	1.39E+07	0.61 Y	0.74	0.74	0.0%	
PCB-91 22'34'6'-PeCB	25.45	1.64E+07	0.63 Y	0.83	0.87	5.3%	
PCB-84 22'33'6'-PeCB	25.64	1.27E+07	0.62 Y	0.66	0.68	2.3%	
PCB-89 22'346'-PeCB	26.04	1.37E+07	0.61 Y	0.69	0.73	5.1%	
PCB-121 23'45'6'-PeCB	26.40	2.07E+07	0.62 Y	1.06	1.10	4.1%	
PCB-92 22'355'-PeCB	26.72	1.44E+07	0.61 Y	0.73	0.77	5.0%	
PCB-113/90/101 ...-PeCB	27.19	5.03E+07	0.61 Y	0.85	0.89	4.8%	
PCB-83 22'33'5'-PeCB	27.61	1.31E+07	0.62 Y	0.65	0.70	7.8%	
PCB-99 22'44'5'-PeCB	27.70	1.57E+07	0.63 Y	0.84	0.84	-0.6%	
PCB-112 233'56'-PeCB	27.80	1.96E+07	0.63 Y	1.00	1.04	4.5%	
PCB-109/119/86/97/125...-PeCB	28.14	1.02E+08	0.63 Y	0.87	0.90	3.8%	
PCB-117 234'56'-PeCB	28.66	1.97E+07	0.62 Y	0.88	1.05	19.6%	
PCB-116/85 23456/22'344'-PeCB	28.73	3.30E+07	0.63 Y	0.91	0.88	-3.8%	
PCB-110 233'4'6'-PeCB	28.87	1.87E+07	0.63 Y	0.99	1.00	1.0%	

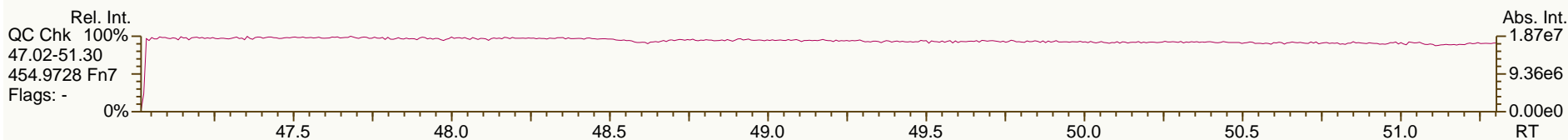
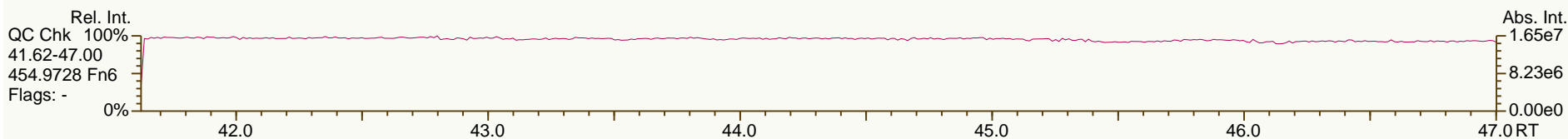
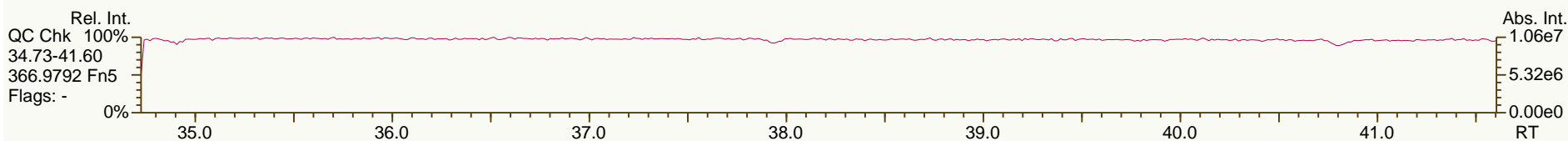
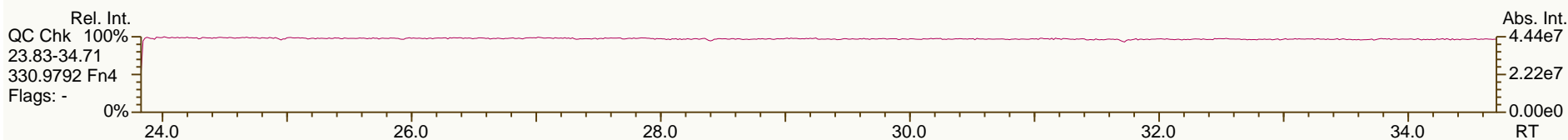
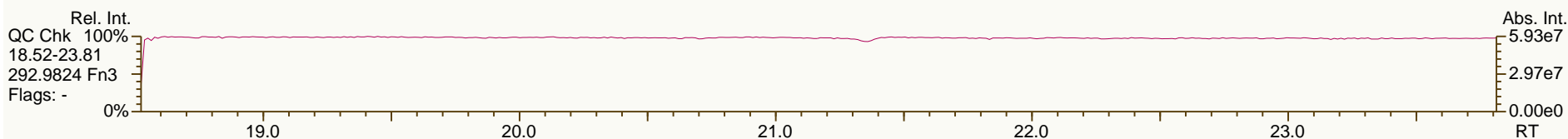
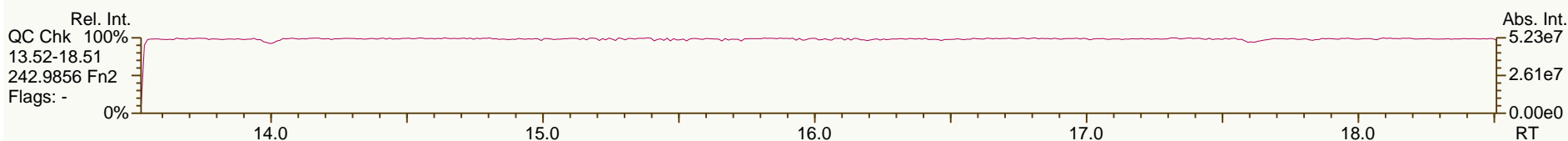
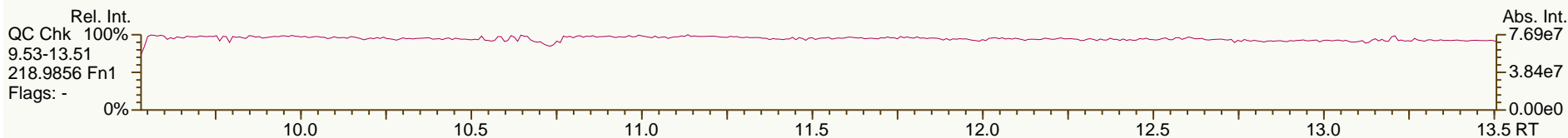
PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS3_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 16:57						
Datafile:	130911S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	28.94	2.01E+07	0.63 Y	1.01	1.07	6.1%	
PCB-82 22'33'4-PeCB	29.14	1.23E+07	0.63 Y	0.62	0.66	5.2%	
PCB-111 233'55'-PeCB	29.48	2.10E+07	0.62 Y	1.07	1.12	4.5%	
PCB-120 23'455'-PeCB	29.87	2.10E+07	0.63 Y	1.07	1.12	4.3%	
PCB-108/124 ...-PeCB	30.82	3.87E+07	0.62 Y	0.98	1.03	4.9%	
PCB-107 233'4'5-PeCB	31.02	2.14E+07	0.61 Y	1.07	1.14	6.7%	
PCB-106 233'45-PeCB	31.22	1.98E+07	0.63 Y	1.00	1.06	5.6%	
PCB-122 233'4'5'-PeCB	31.69	1.84E+07	0.63 Y	0.89	0.92	3.7%	
PCB-127 33'455'-PeCB	33.63	1.98E+07	0.62 Y	0.98	1.01	2.3%	
PCB-155 22'44'66'-HxCB	27.02	2.56E+07	1.26 Y	1.12	1.17	4.4%	
PCB-152 22'3566'-HxCB	27.18	2.37E+07	1.25 Y	1.05	1.09	3.6%	
PCB-150 22'34'66'-HxCB	27.32	2.39E+07	1.25 Y	1.07	1.10	2.9%	
PCB-136 22'33'66'-HxCB	27.62	2.21E+07	1.28 Y	0.99	1.01	2.4%	
PCB-145 22'3466'-HxCB	27.88	2.26E+07	1.27 Y	1.00	1.03	3.8%	
PCB-148 22'34'56'-HxCB	29.16	1.74E+07	1.24 Y	1.03	1.06	3.3%	
PCB-151/135 ...-HxCB	29.67	3.34E+07	1.24 Y	1.00	1.02	1.6%	
PCB-154 22'44'56'-HxCB	29.87	1.90E+07	1.27 Y	1.13	1.16	3.0%	
PCB-144 22'345'6-HxCB	30.13	1.72E+07	1.28 Y	1.03	1.05	1.7%	
PCB-147/149 ...-HxCB	30.43	3.45E+07	1.25 Y	1.03	1.05	2.3%	
PCB-134 22'33'56-HxCB	30.60	1.30E+07	1.25 Y	0.84	0.79	-5.2%	
PCB-143 22'3456'-HxCB	30.67	1.75E+07	1.26 Y	0.95	1.07	12.5%	
PCB-139/140 ...-HxCB	30.93	3.53E+07	1.24 Y	1.05	1.07	2.3%	
PCB-131 22'33'46-HxCB	31.10	1.52E+07	1.26 Y	0.87	0.92	5.7%	
PCB-142 22'3456-HxCB	31.23	1.51E+07	1.26 Y	0.91	0.92	1.1%	
PCB-132 22'33'46'-HxCB	31.49	1.54E+07	1.26 Y	0.92	0.94	2.3%	
PCB-133 22'33'55'-HxCB	31.91	1.62E+07	1.26 Y	0.97	0.99	2.3%	
PCB-165 233'55'6-HxCB	32.25	2.01E+07	1.25 Y	1.19	1.23	2.6%	
PCB-146 22'34'55'-HxCB	32.46	1.80E+07	1.24 Y	1.08	1.09	1.0%	
PCB-161 233'45'6-HxCB	32.57	2.31E+07	1.26 Y	1.34	1.41	4.6%	
PCB-153/168 ...-HxCB	33.00	4.28E+07	1.25 Y	1.26	1.30	3.5%	
PCB-141 22'3455'-HxCB	33.14	1.65E+07	1.23 Y	0.98	1.00	2.2%	
PCB-130 22'33'45'-HxCB	33.48	1.48E+07	1.27 Y	0.88	0.90	2.7%	
PCB-137 22'344'5-HxCB	33.66	1.75E+07	1.26 Y	1.07	1.07	-0.7%	
PCB-164 233'4'5'6-HxCB	33.76	2.24E+07	1.25 Y	1.29	1.36	5.4%	
PCB-163/138/129 ...-HxCB	34.04	5.30E+07	1.25 Y	1.05	1.08	2.7%	
PCB-160 233'456-HxCB	34.16	2.22E+07	1.25 Y	1.26	1.35	7.4%	
PCB-158 233'44'6-HxCB	34.35	2.39E+07	1.25 Y	1.40	1.46	4.1%	
PCB-128/166 ...-HxCB	35.07	3.27E+07	1.24 Y	0.89	0.91	2.4%	
PCB-159 233'455'-HxCB	35.91	1.93E+07	1.24 Y	1.04	1.07	3.0%	
PCB-162 233'4'55'-HxCB	36.15	1.94E+07	1.22 Y	1.04	1.08	3.8%	
PCB-188 22'34'566'-HpCB	31.84	2.44E+07	1.05 Y	0.97	1.00	3.4%	
PCB-179 22'33'566'-HpCB	32.12	2.24E+07	1.03 Y	0.89	0.92	2.8%	
PCB-184 22'344'66'-HpCB	32.56	2.22E+07	1.02 Y	0.87	0.91	4.6%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS3_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 16:57						
Datafile:	130911S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	32.86	2.42E+07	1.02 Y	0.97	0.99	2.9%	
PCB-186 22'34566'-HpCB	33.24	2.32E+07	1.02 Y	0.93	0.96	2.2%	
PCB-178 22'33'55'6'-HpCB	34.41	1.68E+07	1.07 Y	0.67	0.69	2.6%	
PCB-175 22'33'45'6'-HpCB	34.94	1.55E+07	1.02 Y	0.97	1.00	2.4%	
PCB-187 22'34'55'6'-HpCB	35.17	1.61E+07	1.04 Y	1.02	1.04	1.8%	
PCB-182 22'344'56'-HpCB	35.34	1.64E+07	1.04 Y	1.05	1.06	1.1%	
PCB-183 22'344'5'6'-HpCB	35.68	1.62E+07	1.03 Y	1.07	1.05	-1.7%	
PCB-185 22'3455'6'-HpCB	35.76	1.60E+07	1.03 Y	0.96	1.03	7.9%	
PCB-174 22'33'456'-HpCB	35.88	1.37E+07	1.03 Y	0.86	0.88	3.4%	
PCB-177 22'33'45'6'-HpCB	36.25	1.35E+07	1.04 Y	0.83	0.87	4.9%	
PCB-181 22'344'56'-HpCB	36.58	1.57E+07	1.03 Y	1.00	1.01	1.6%	
PCB-171/173 ...-HpCB	36.76	2.74E+07	1.04 Y	0.86	0.88	2.3%	
PCB-172 22'33'455'-HpCB	38.14	1.42E+07	1.05 Y	0.87	0.92	5.1%	
PCB-192 233'455'6'-HpCB	38.38	1.89E+07	1.04 Y	1.19	1.22	2.6%	
PCB-180/193 ...-HpCB	38.66	3.50E+07	1.03 Y	1.11	1.13	1.8%	
PCB-191 233'44'5'6'-HpCB	38.98	1.95E+07	1.04 Y	1.23	1.26	2.2%	
PCB-170 22'33'44'5'-HpCB	39.74	1.40E+07	1.05 Y	1.01	1.03	2.4%	
PCB-190 233'44'56'-HpCB	40.18	1.93E+07	1.04 Y	1.42	1.43	0.7%	
PCB-202 22'33'55'66'-OcCB	36.35	1.76E+07	0.90 Y	0.83	0.87	4.6%	
PCB-201 22'33'45'66'-OcCB	37.13	1.94E+07	0.88 Y	0.94	0.96	1.7%	
PCB-204 22'344'566'-OcCB	37.69	1.85E+07	0.89 Y	0.87	0.91	4.8%	
PCB-197 22'33'44'66'-OcCB	37.89	2.00E+07	0.89 Y	0.97	0.99	1.2%	
PCB-200 22'33'4566'-OcCB	37.98	1.92E+07	0.90 Y	0.89	0.95	6.5%	
PCB-198/199 ...-OcCB	40.32	2.76E+07	0.88 Y	0.66	0.68	3.7%	
PCB-196 22'33'44'56'-OcCB	40.88	1.46E+07	0.88 Y	0.70	0.72	2.4%	
PCB-203 22'344'55'6'-OcCB	41.05	1.52E+07	0.89 Y	0.74	0.75	1.6%	
PCB-195 22'33'44'56'-OcCB	42.16	1.11E+07	0.92 Y	0.78	0.79	0.7%	
PCB-194 22'33'44'55'-OcCB	44.12	1.22E+07	0.92 Y	0.85	0.86	1.9%	
PCB-205 233'44'55'6'-OcCB	44.52	1.56E+07	0.91 Y	1.08	1.10	2.2%	
PCB-208 22'33'455'66'-NoCB	41.96	1.57E+07	0.79 Y	0.99	0.99	-0.7%	
PCB-207 22'33'44'566'-NoCB	42.74	1.65E+07	0.79 Y	1.03	1.03	0.8%	
PCB-206 22'33'44'55'6'-NoCB	45.98	1.15E+07	0.77 Y	0.83	0.84	0.7%	

SGS-AP ID: CS3_130911_PCB_SB
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Sample ID: SIL 13-40-3
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 53

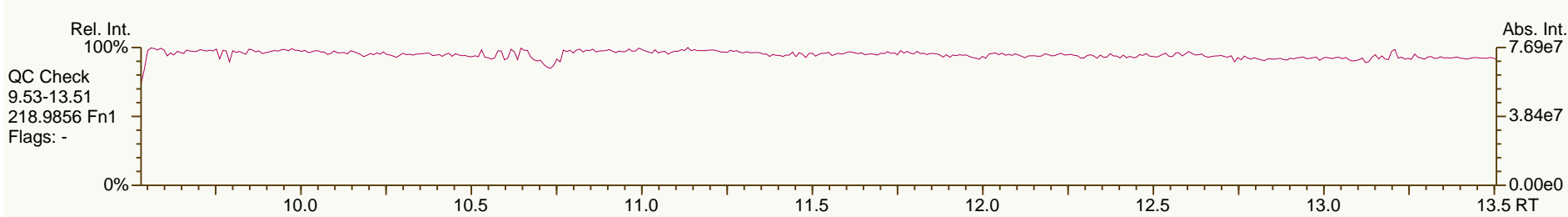
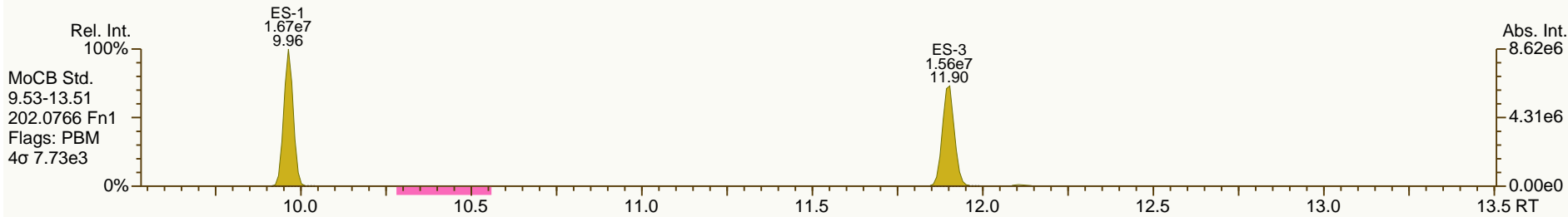
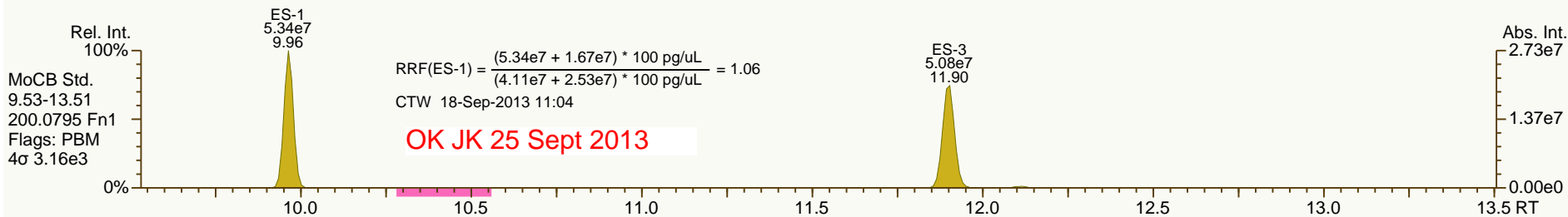
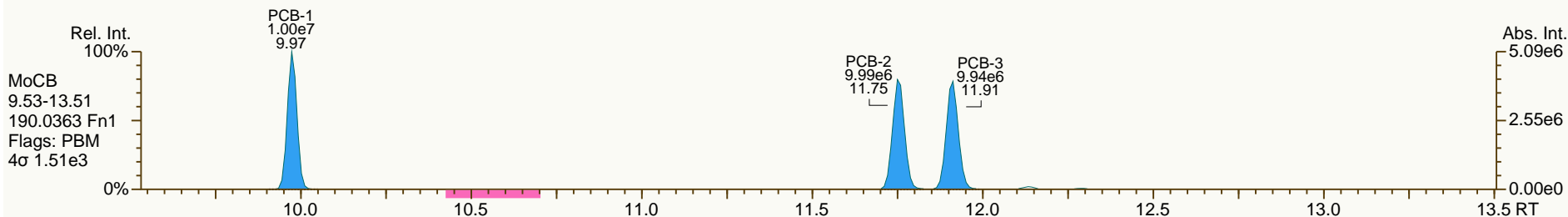
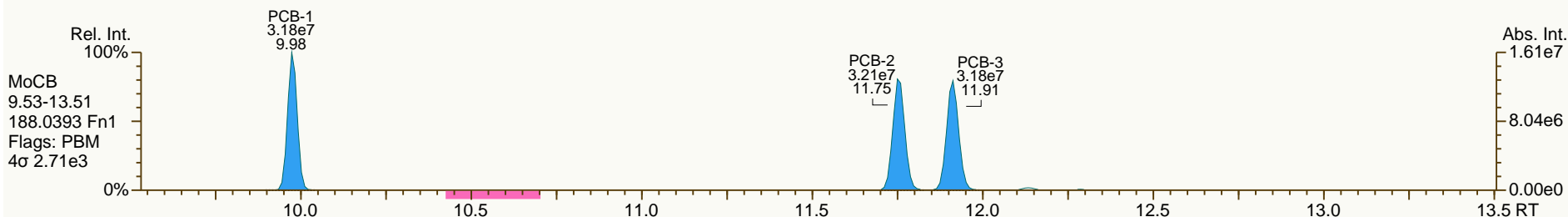
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Sample ID: SIL 13-40-3
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 53

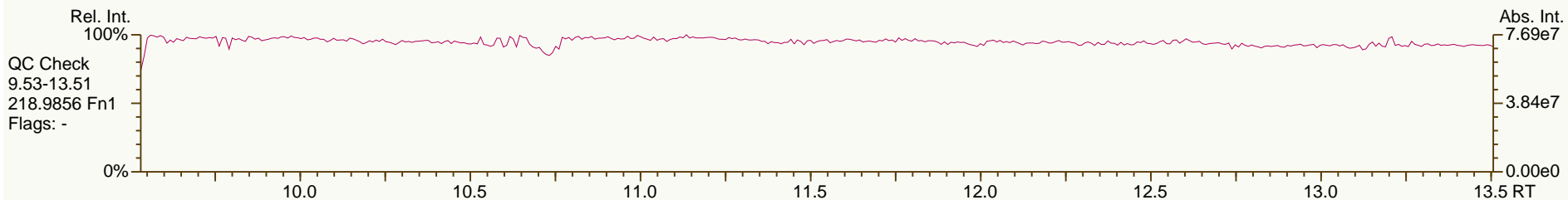
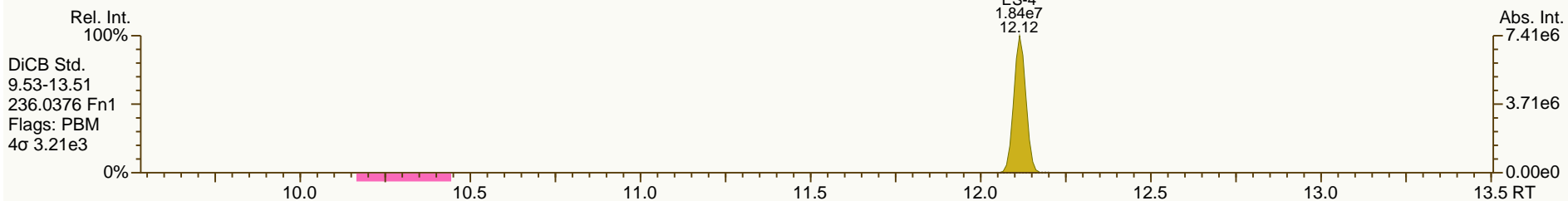
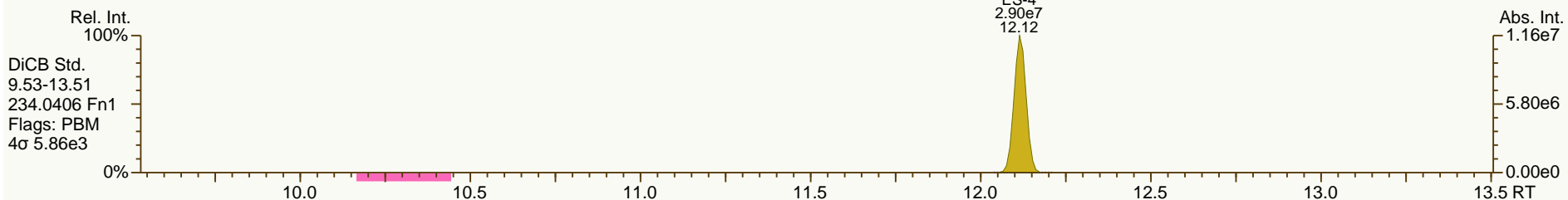
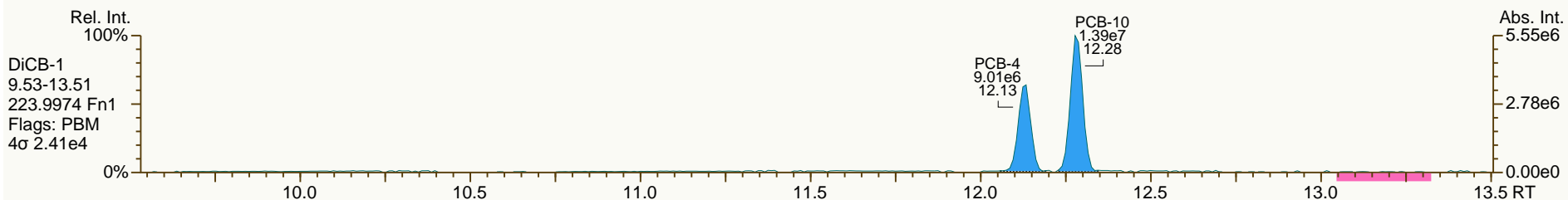
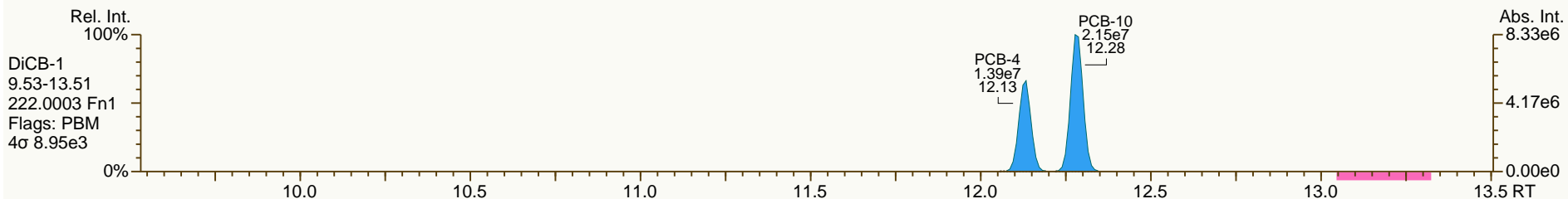
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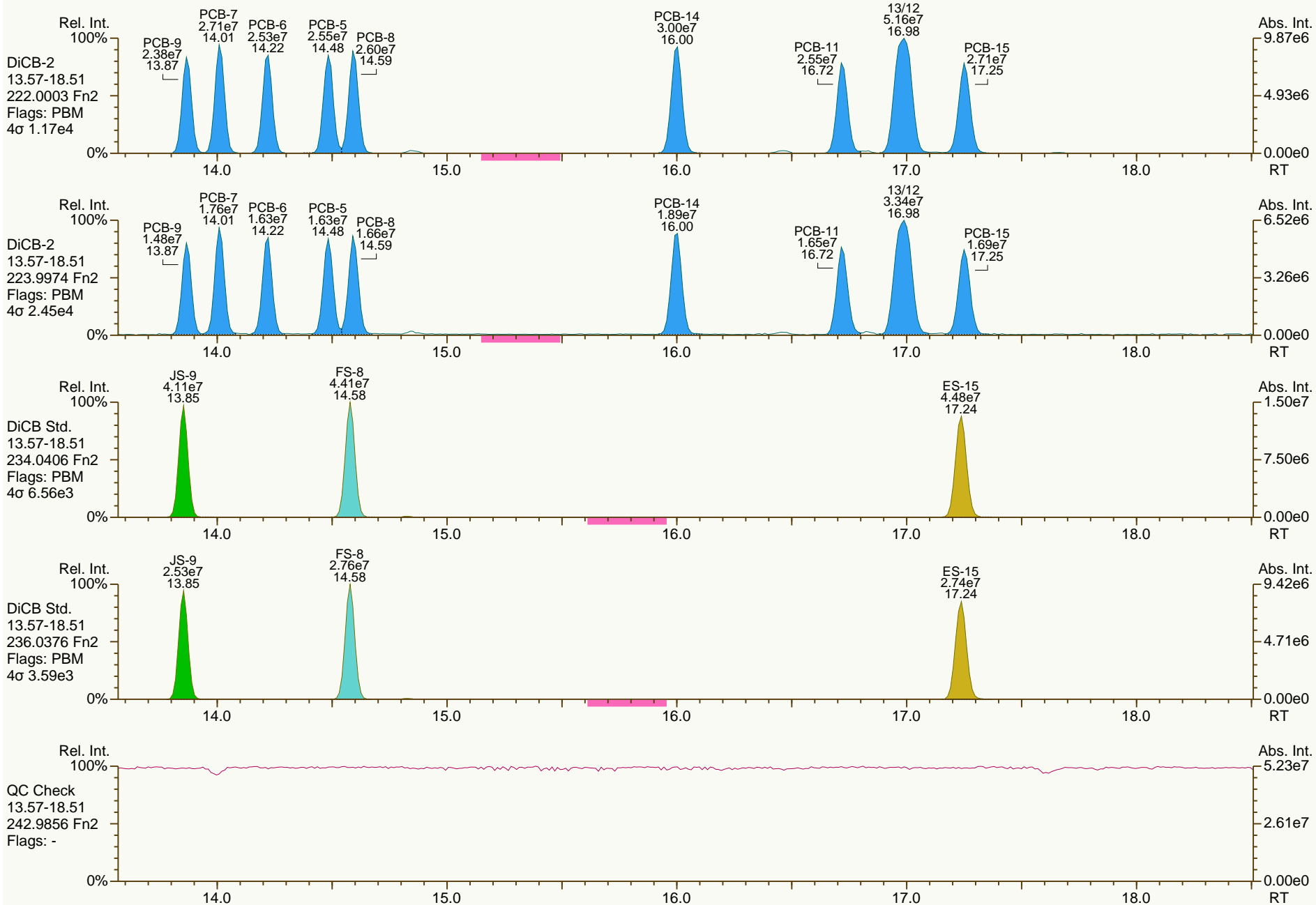
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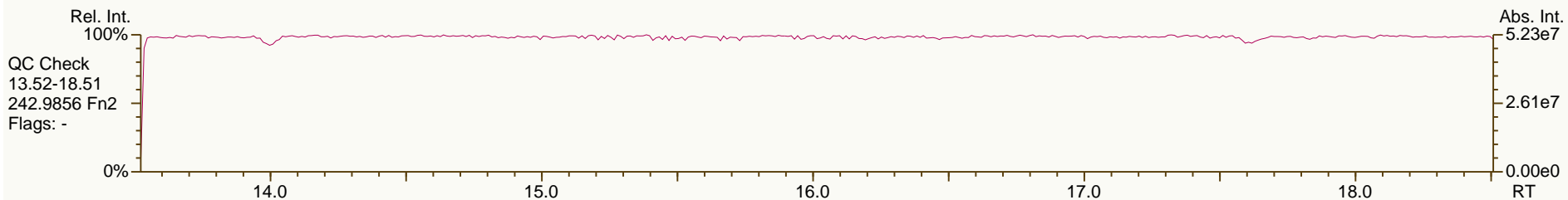
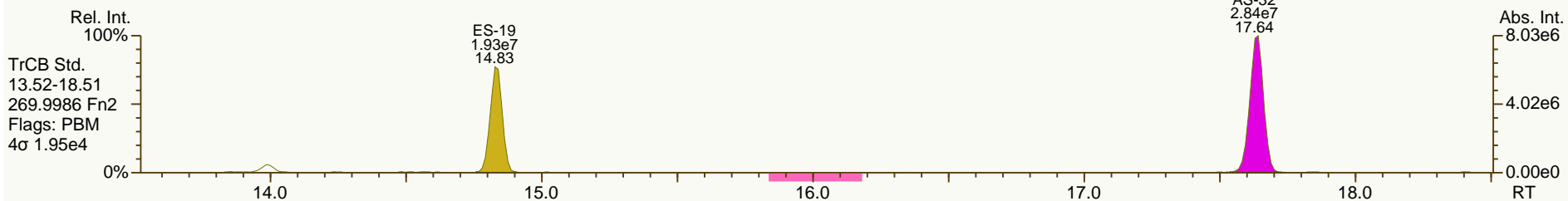
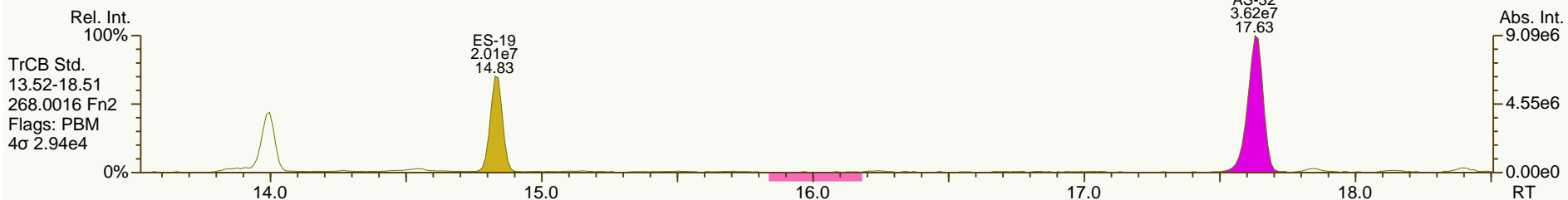
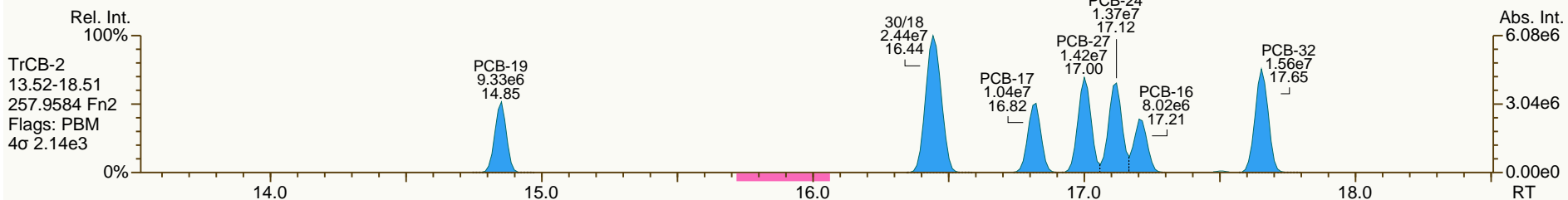
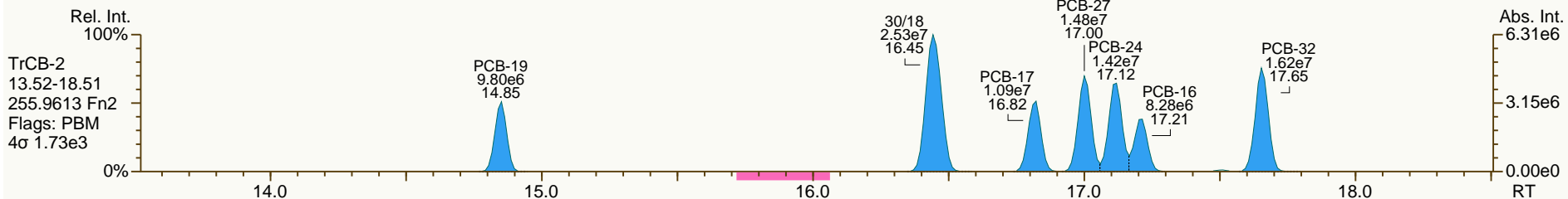
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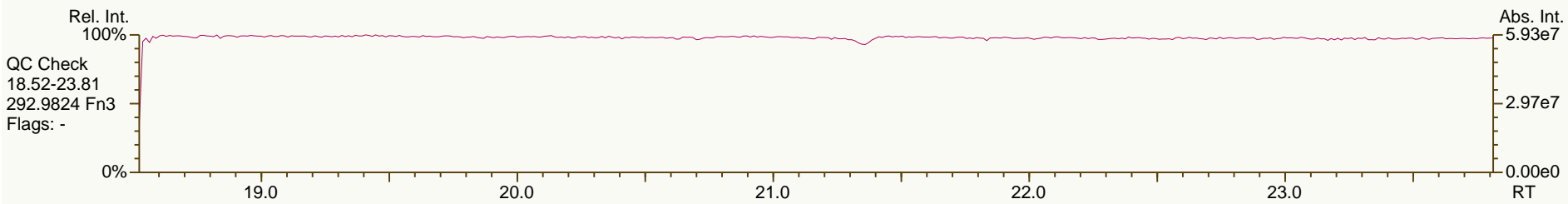
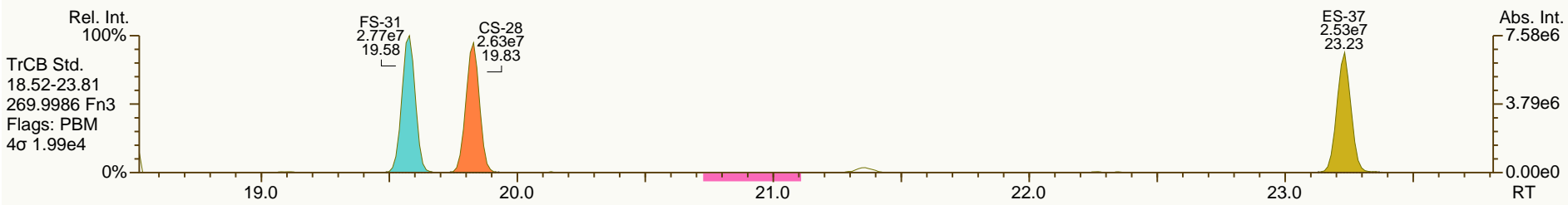
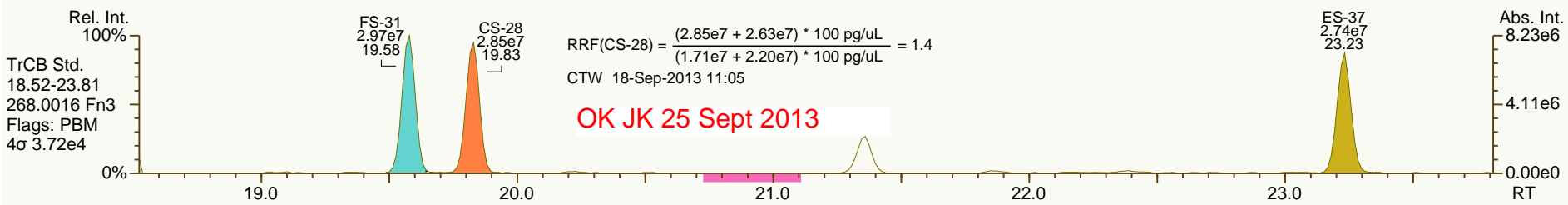
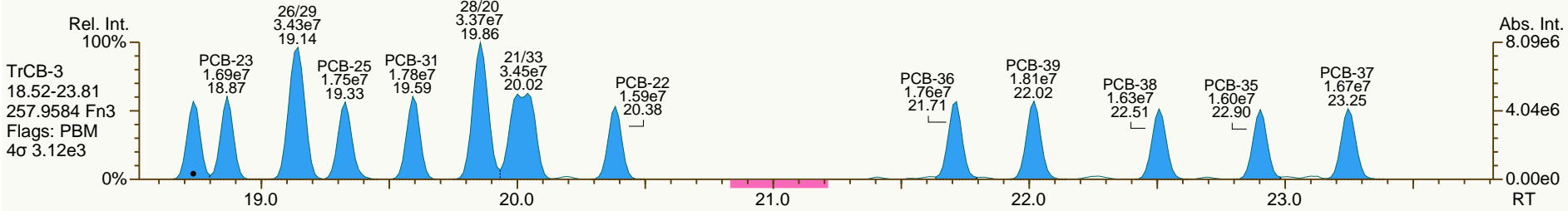
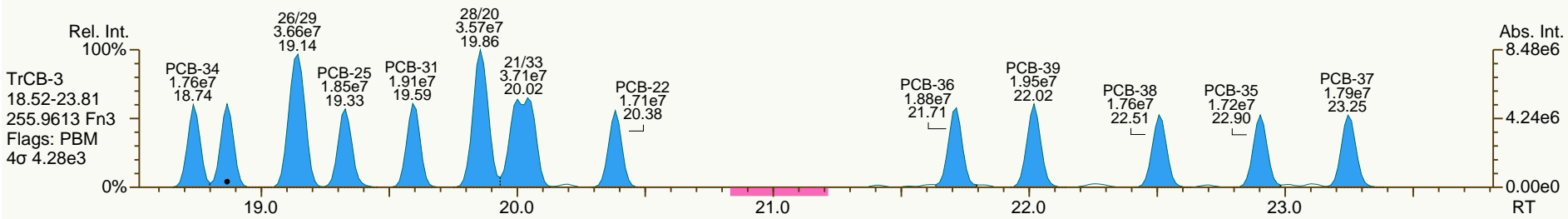
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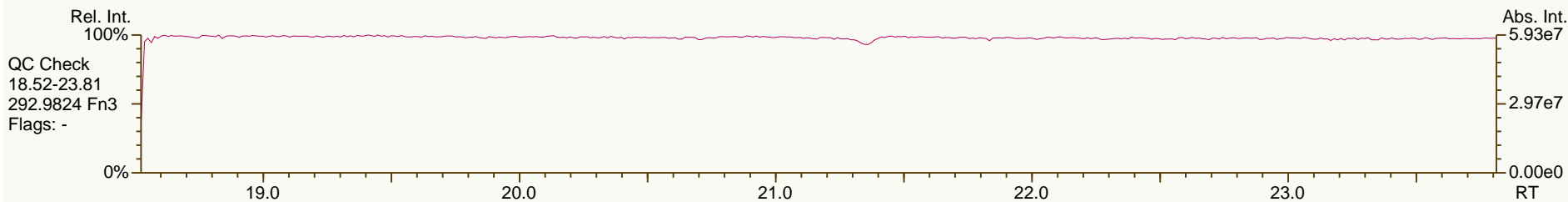
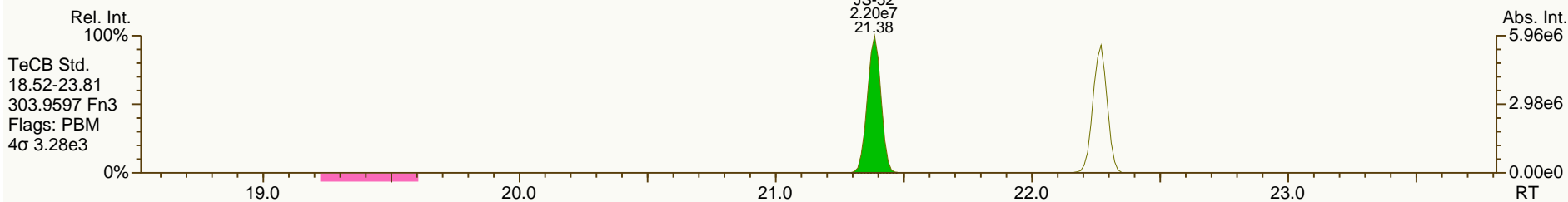
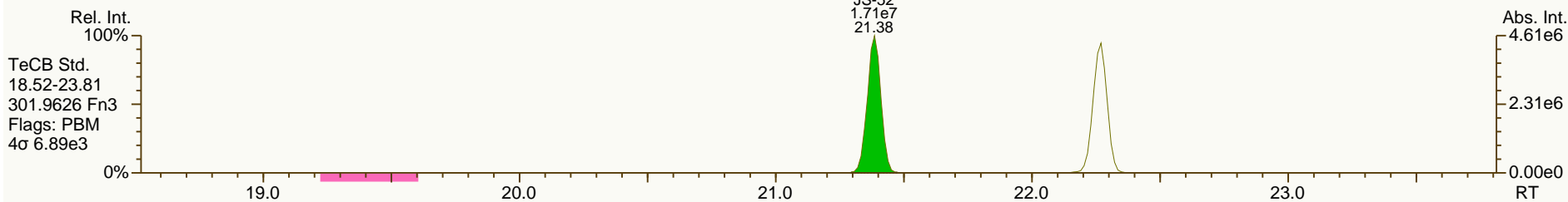
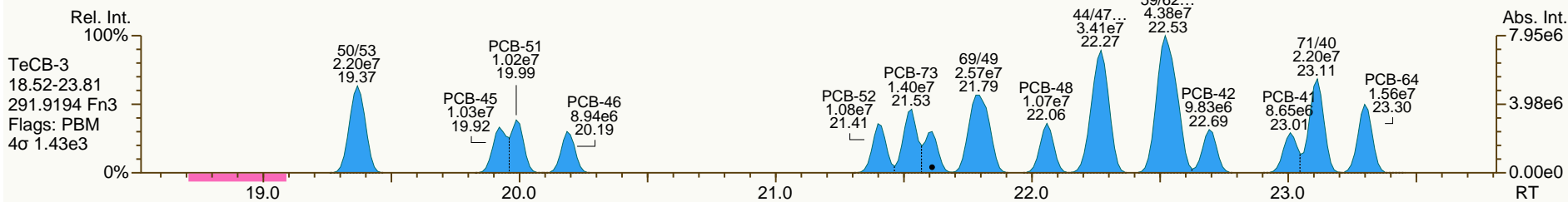
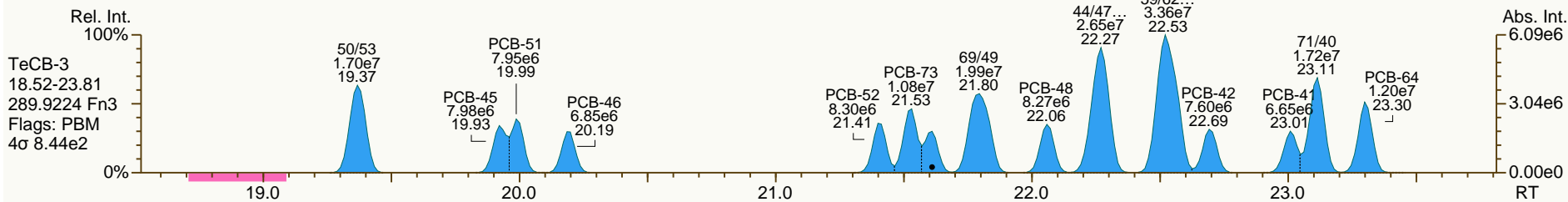
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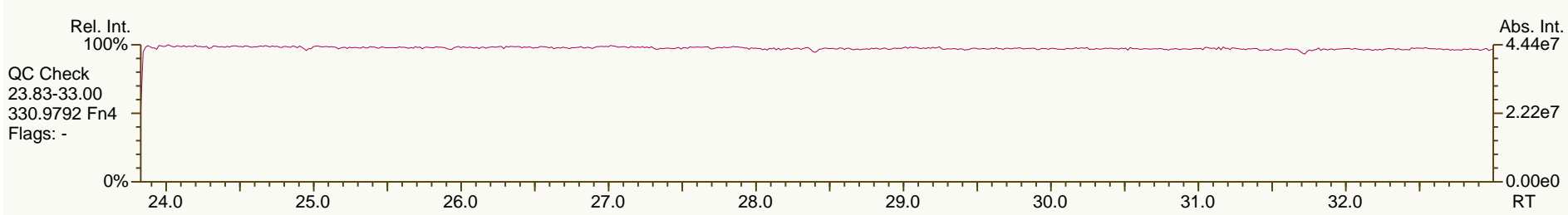
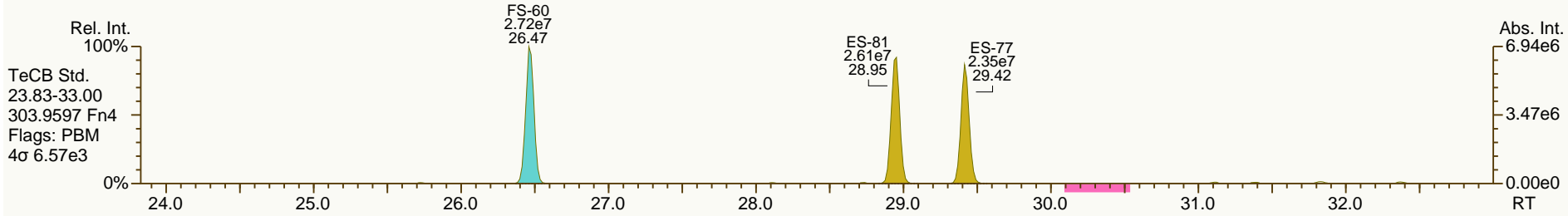
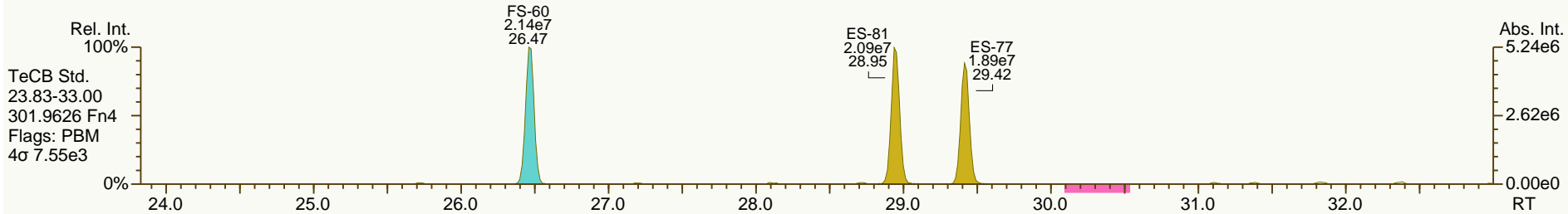
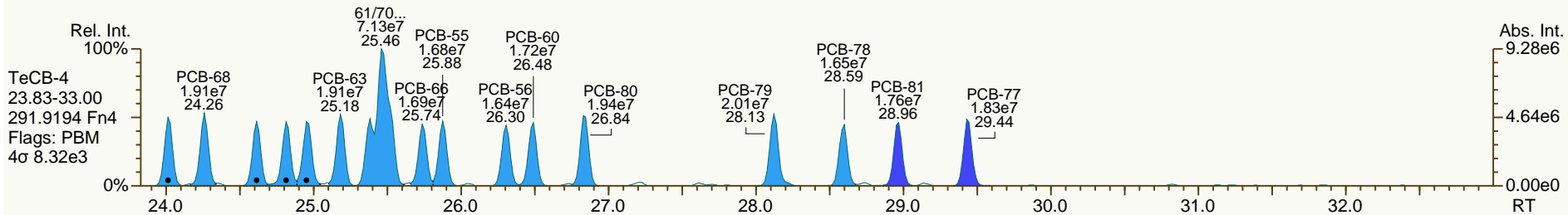
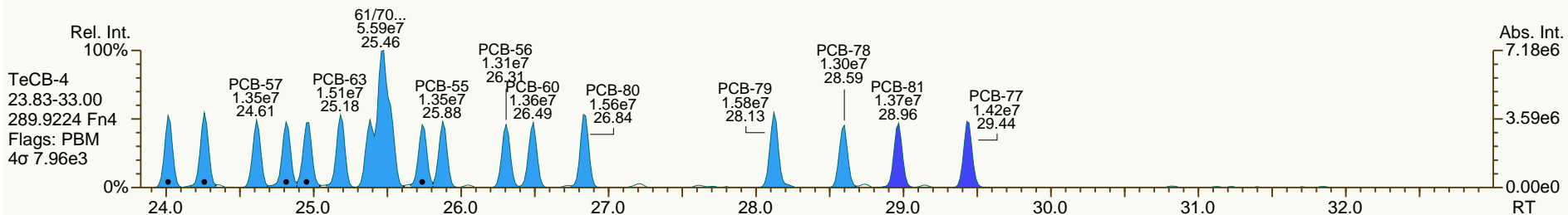
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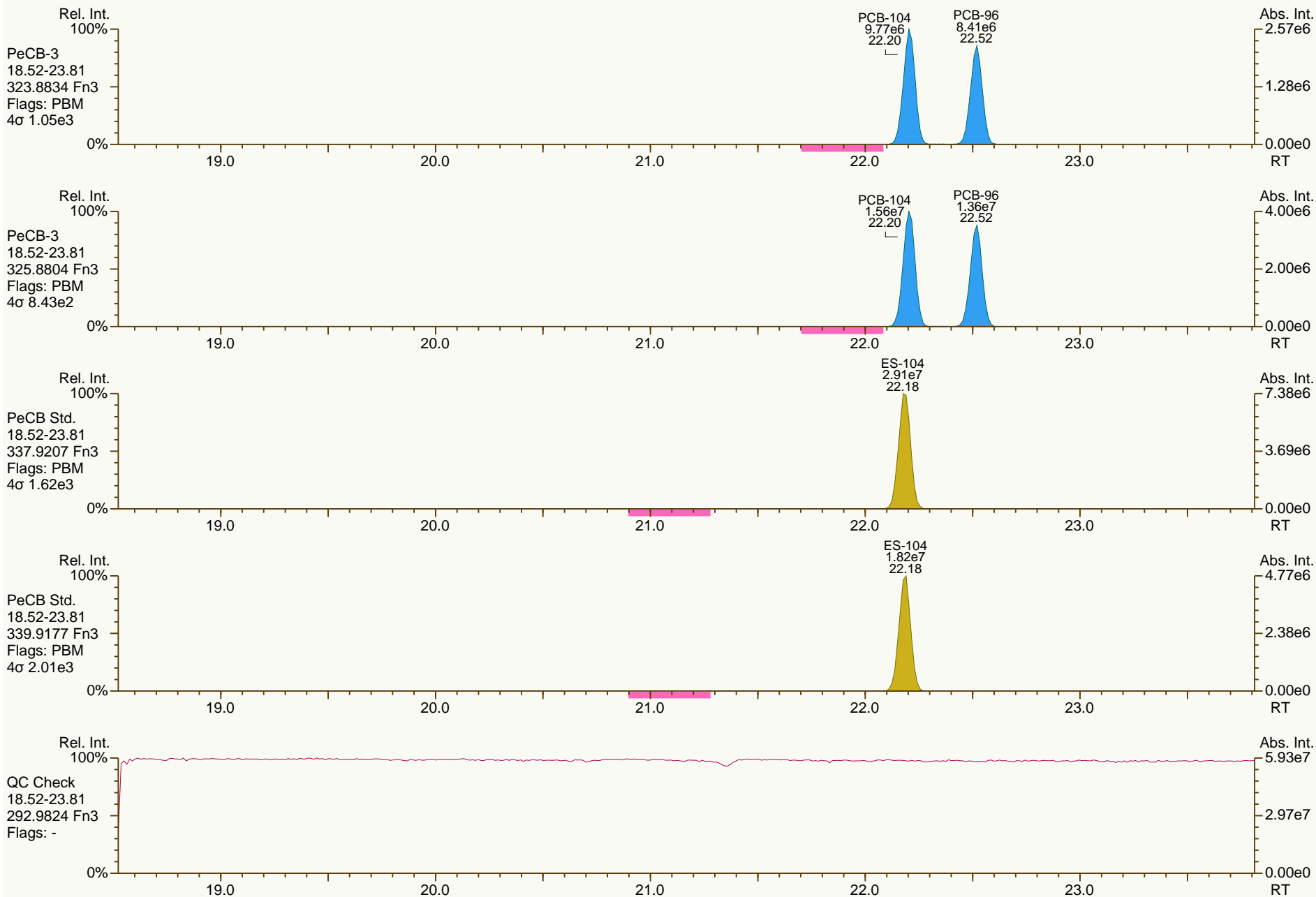
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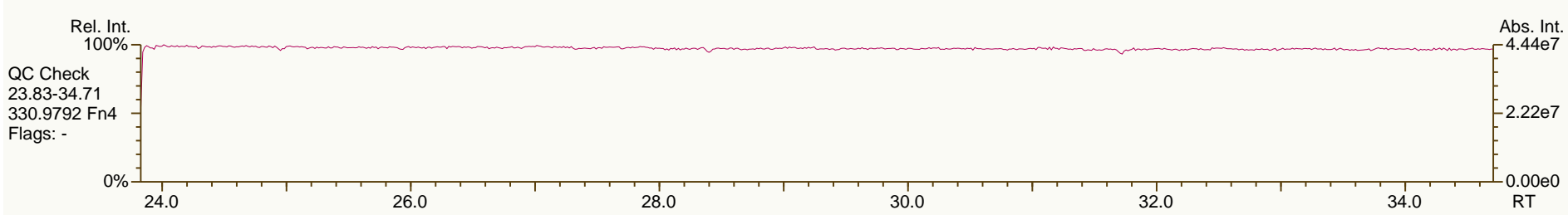
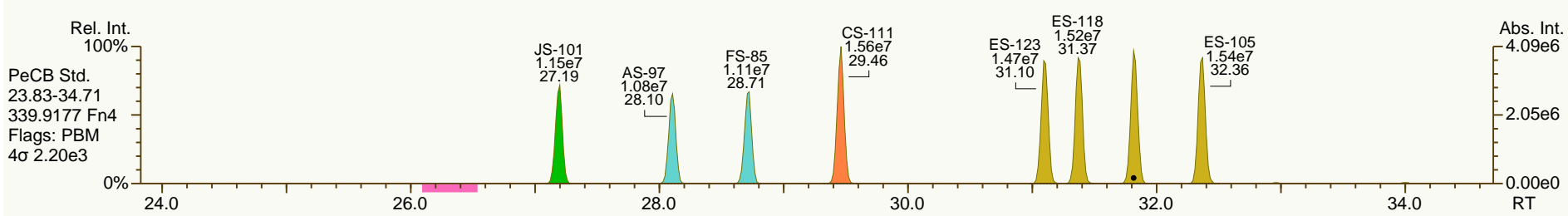
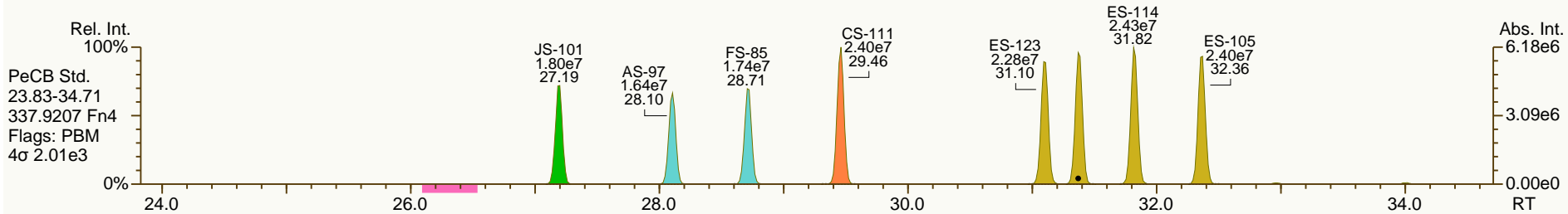
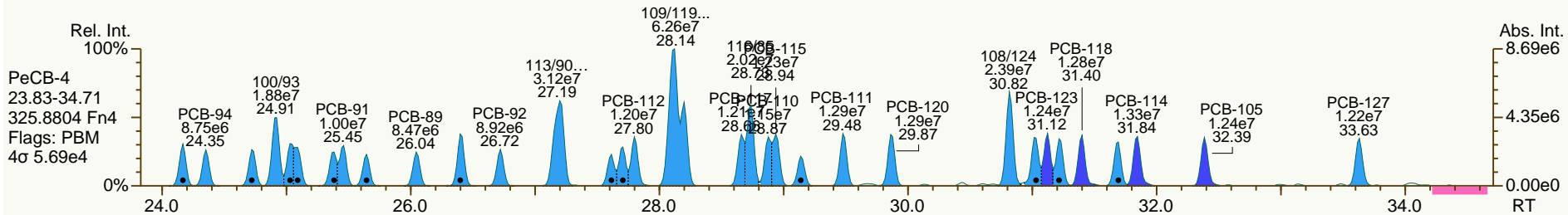
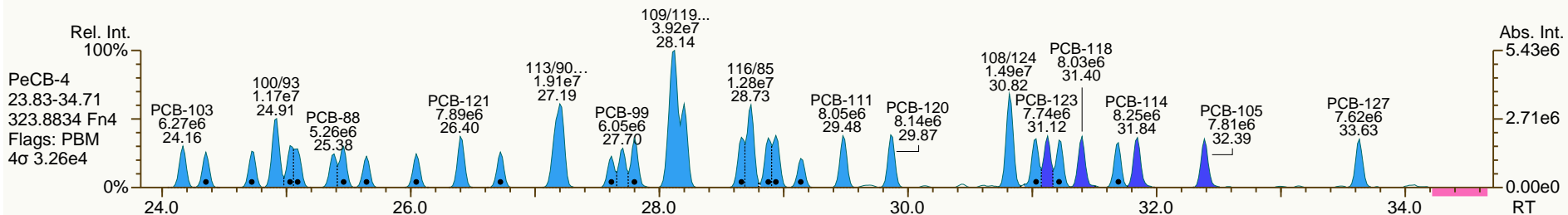
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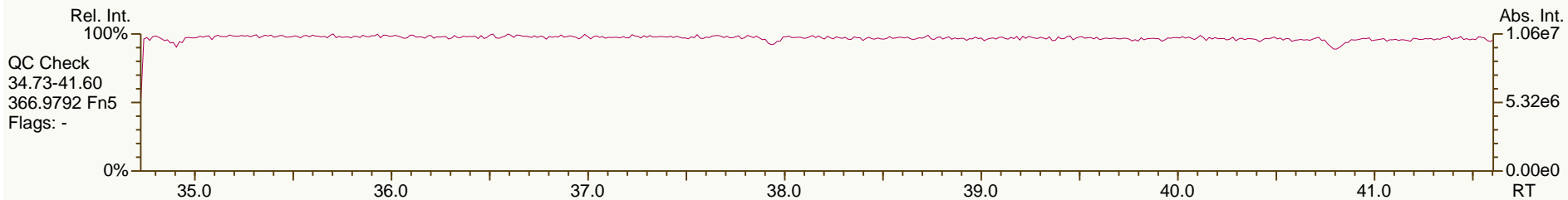
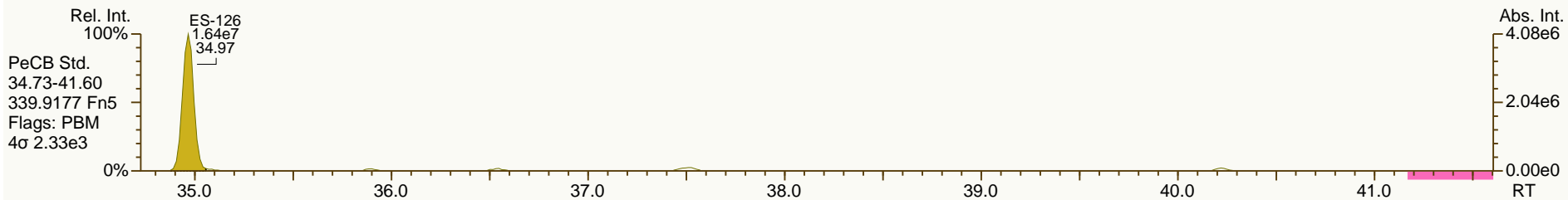
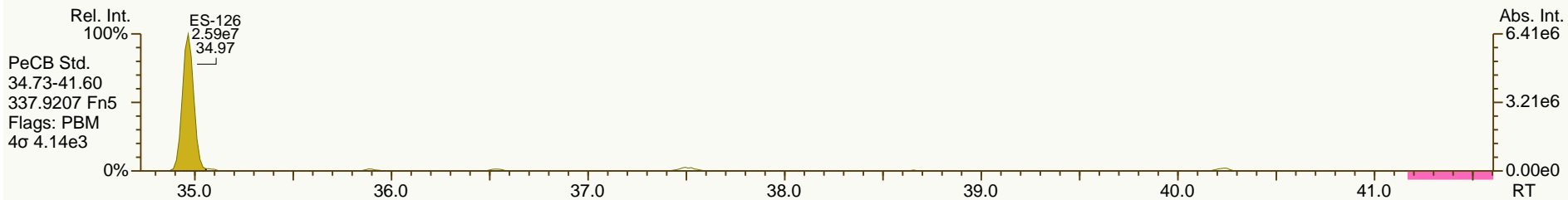
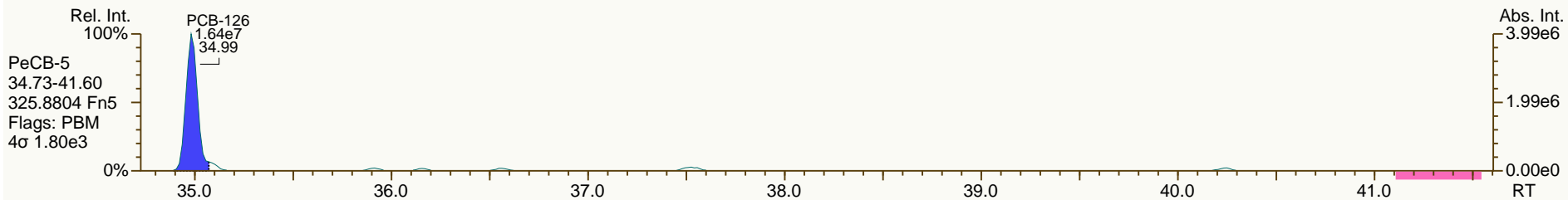
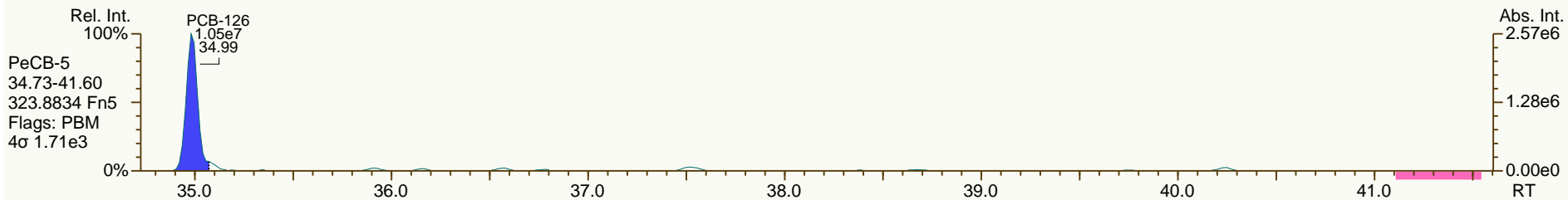
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SGS-AP ID: CS3_130911_PCB_SB
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Sample ID: SIL 13-40-3
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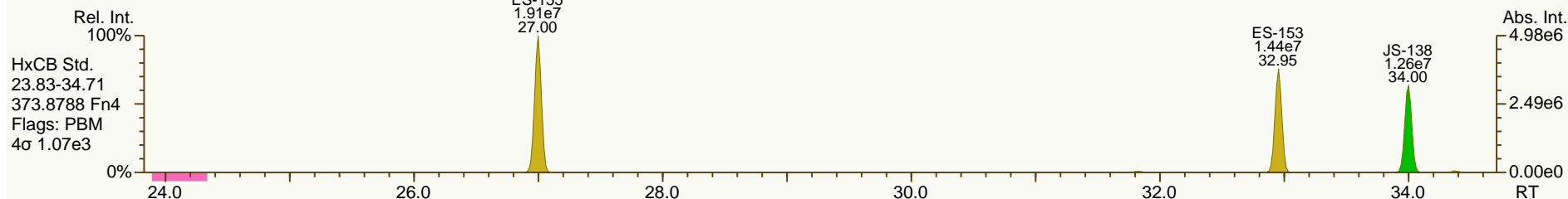
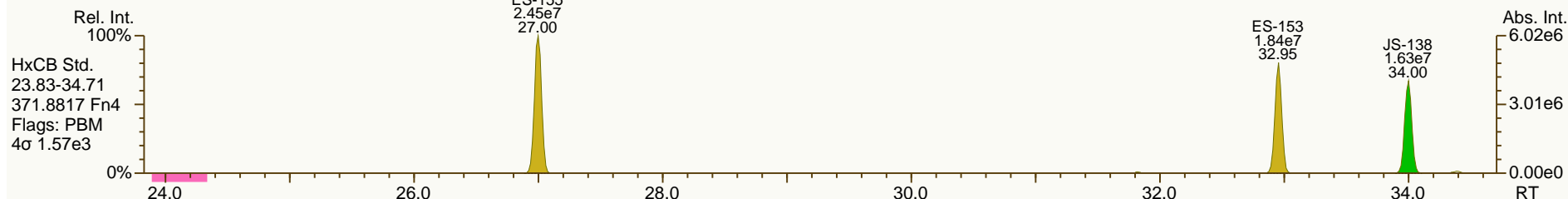
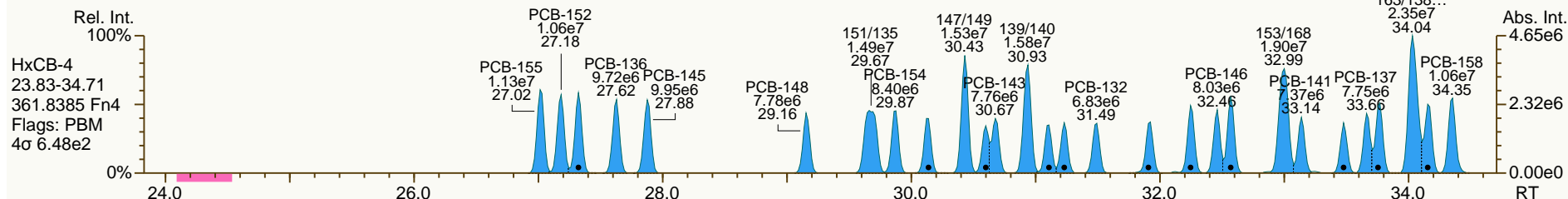
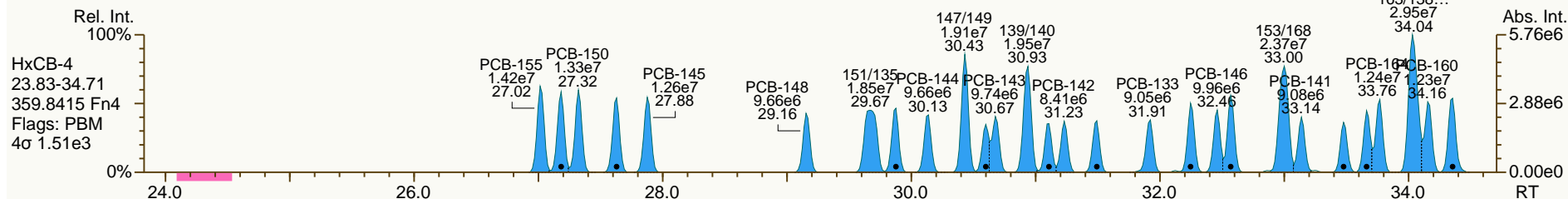
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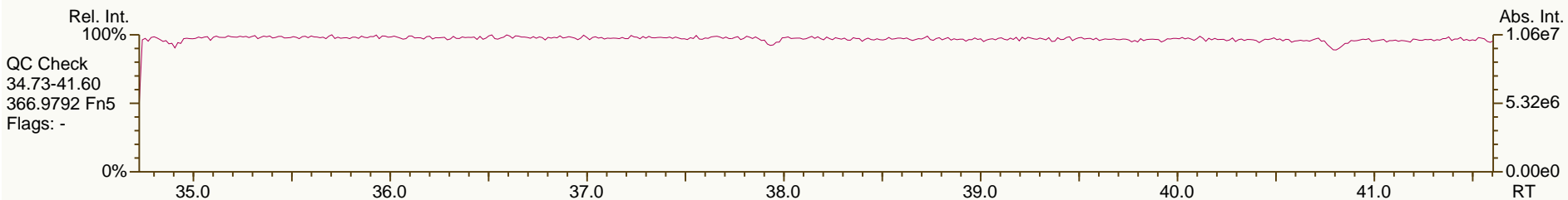
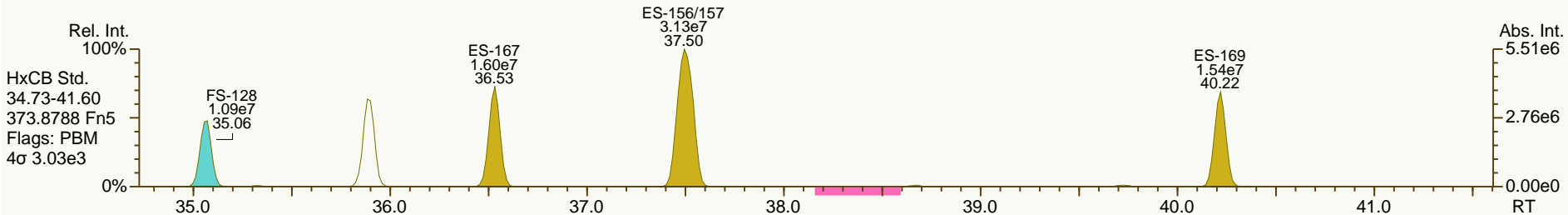
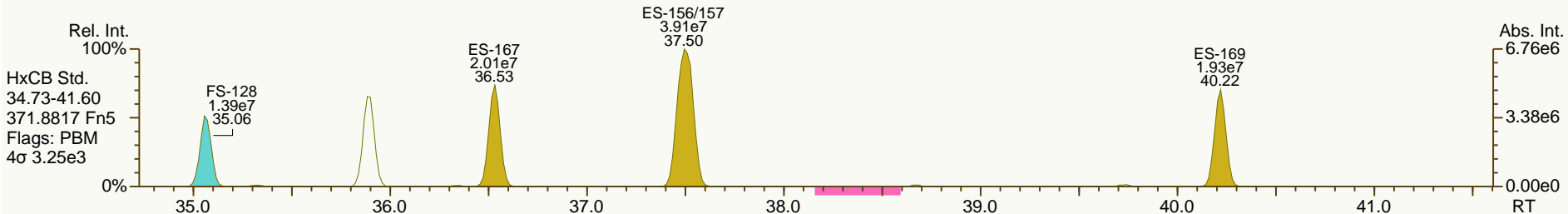
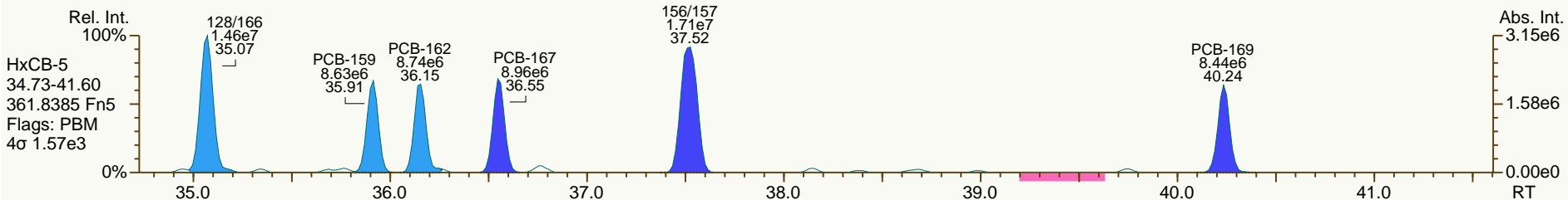
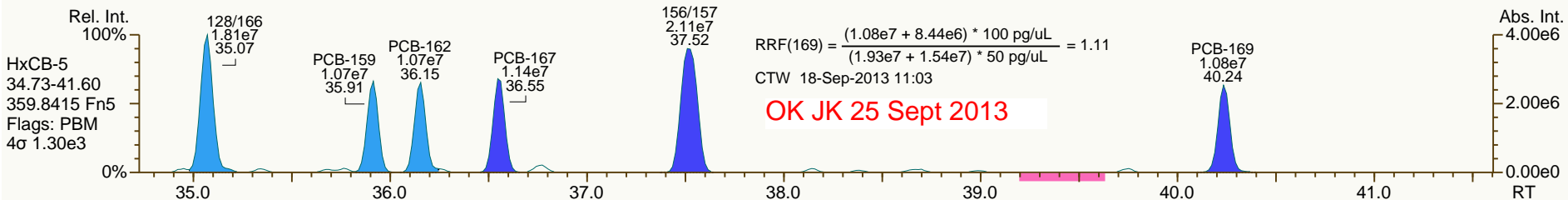
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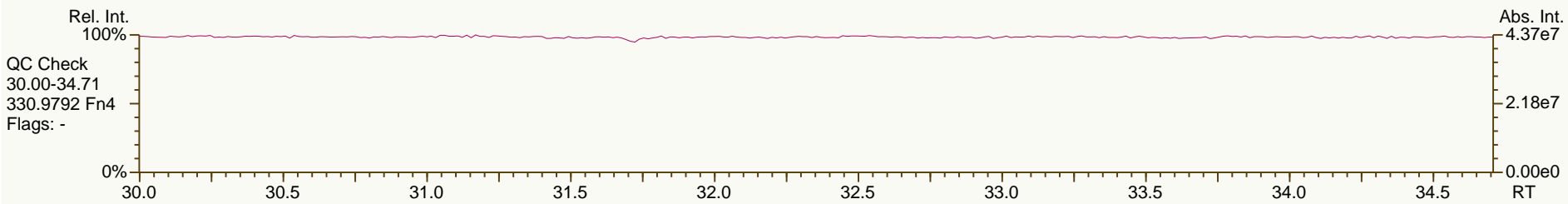
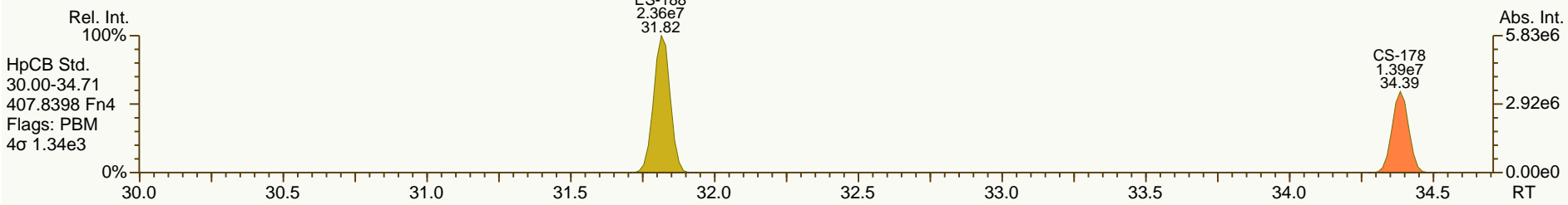
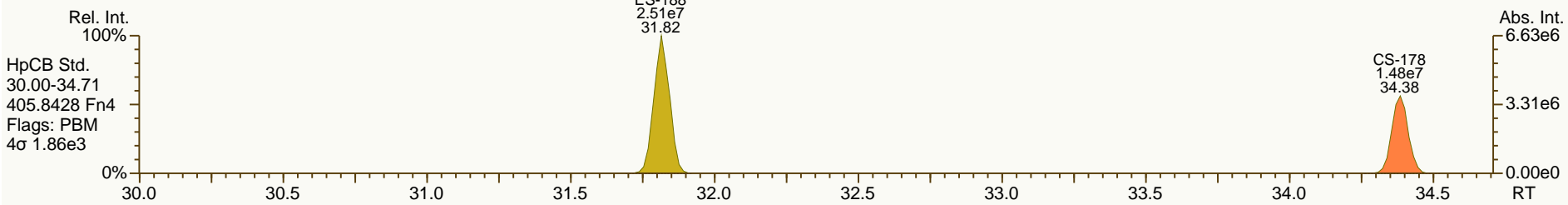
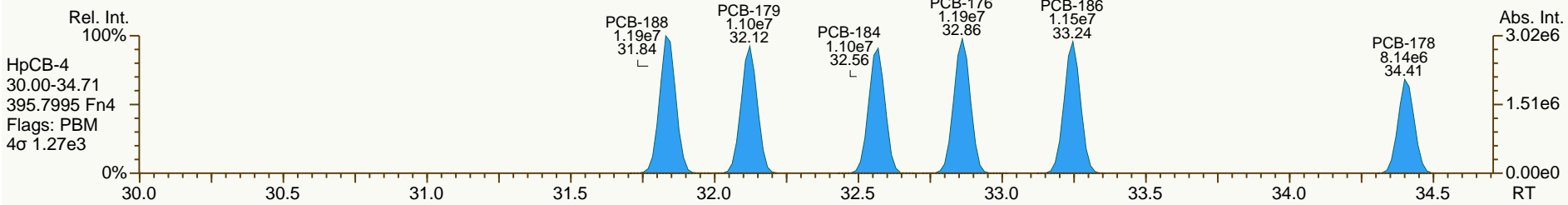
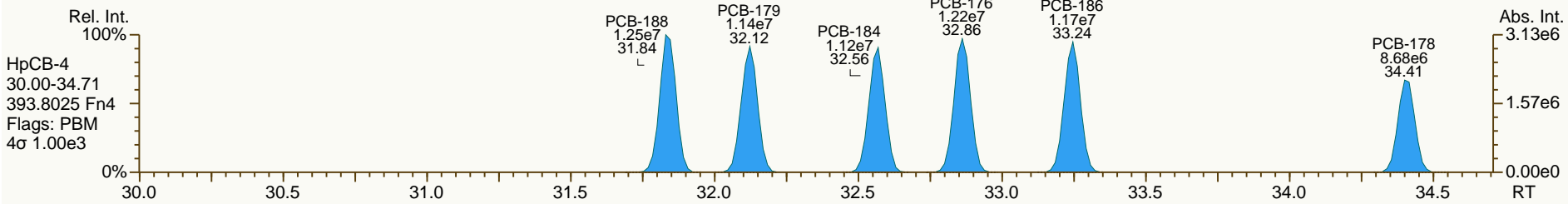
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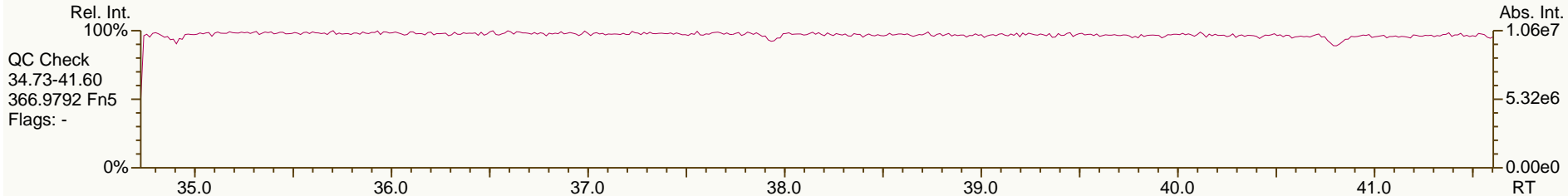
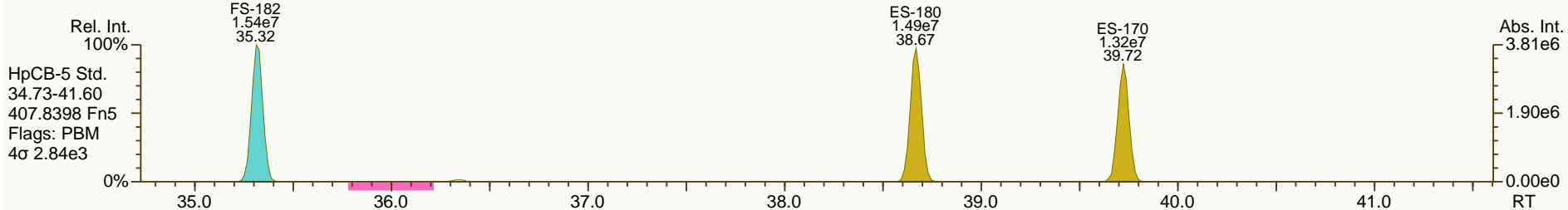
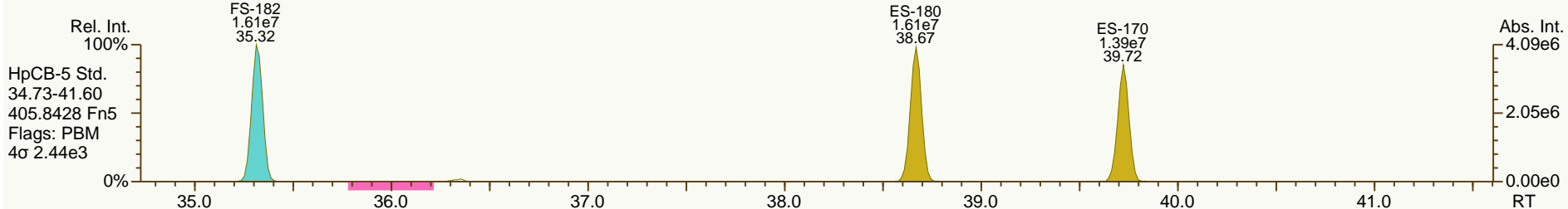
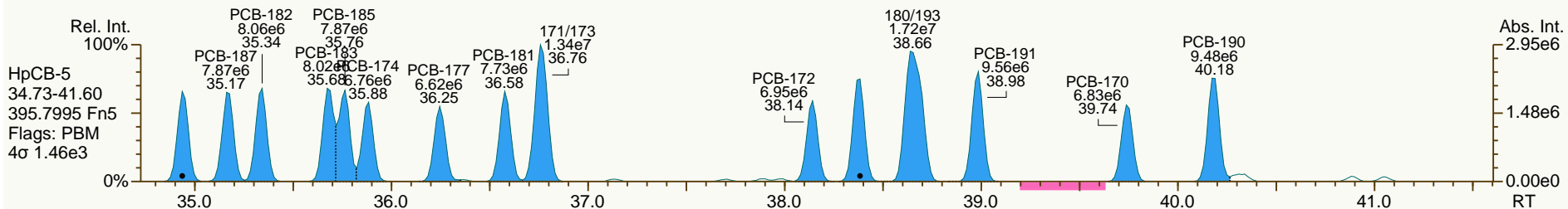
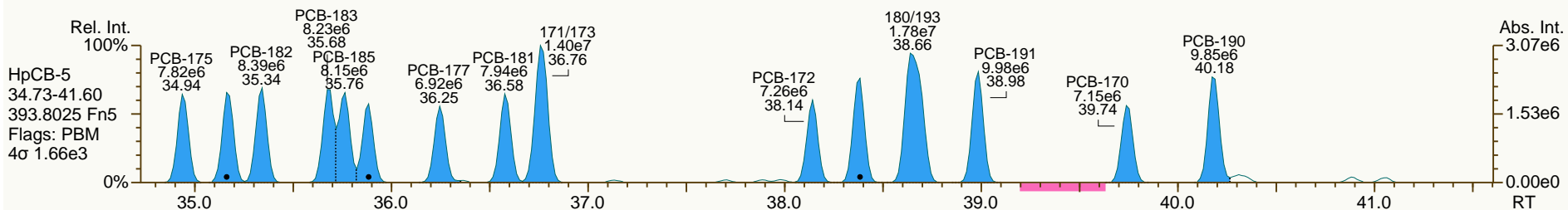
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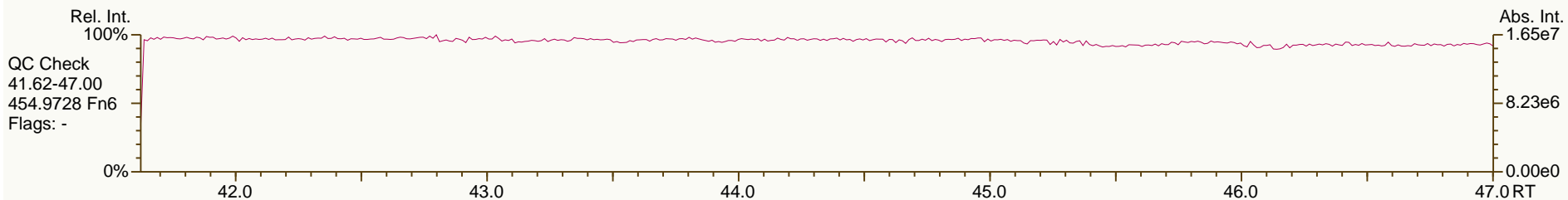
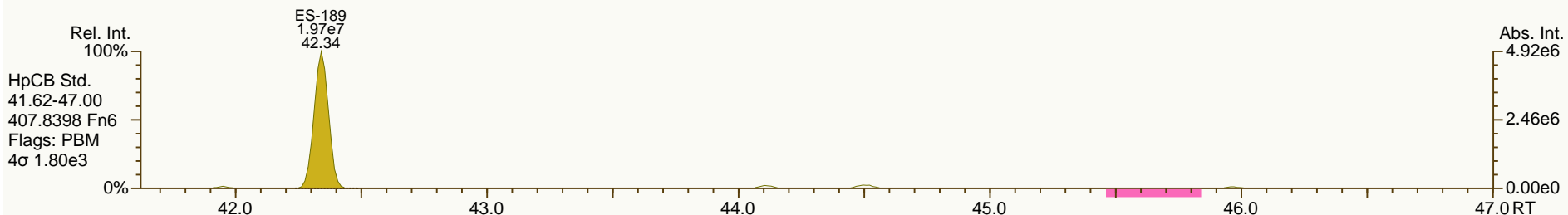
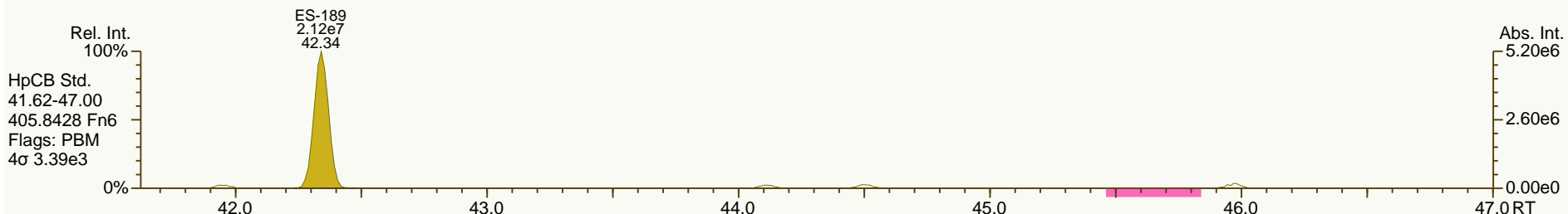
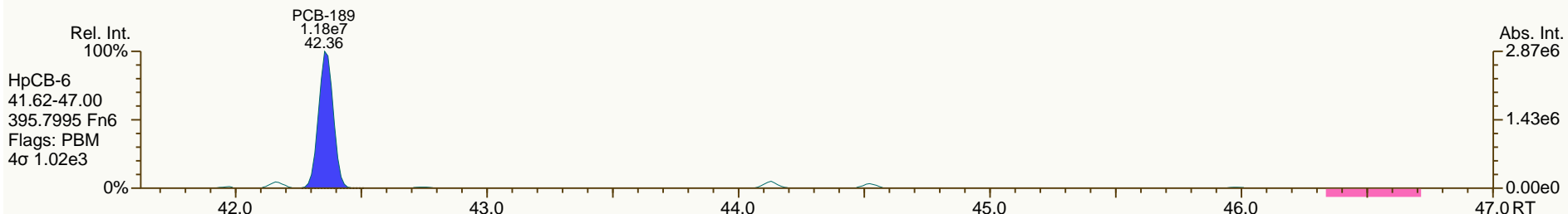
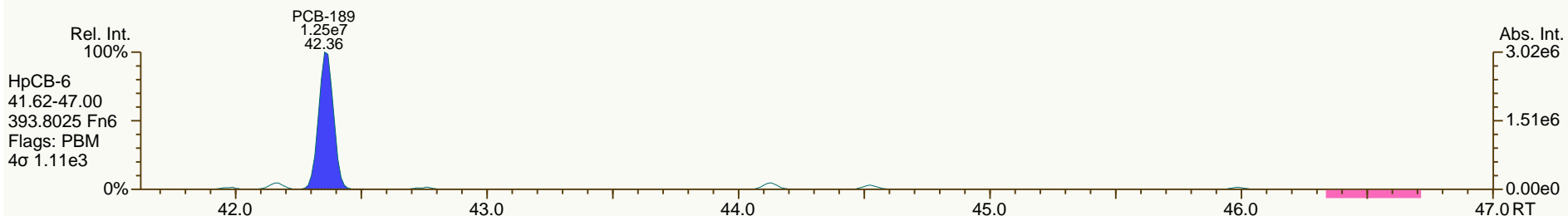
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 User: CTW Datafile: 130911S06



SGS-AP ID: CS3_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-3
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 53

Acq: 11-Sep-2013 16:57:30
 User: CTW Datafile: 130911S06



SGS-AP ID: CS3_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-3
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 53

Acq: 11-Sep-2013 16:57:30
 User: CTW Datafile: 130911S06



SGS-AP ID: CS3_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-3
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 53

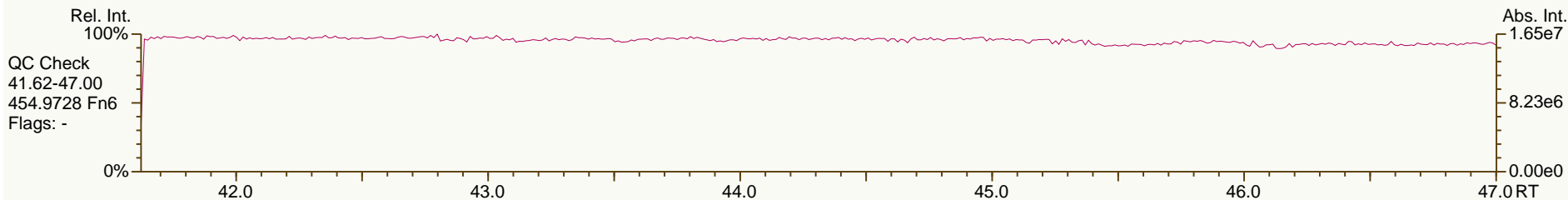
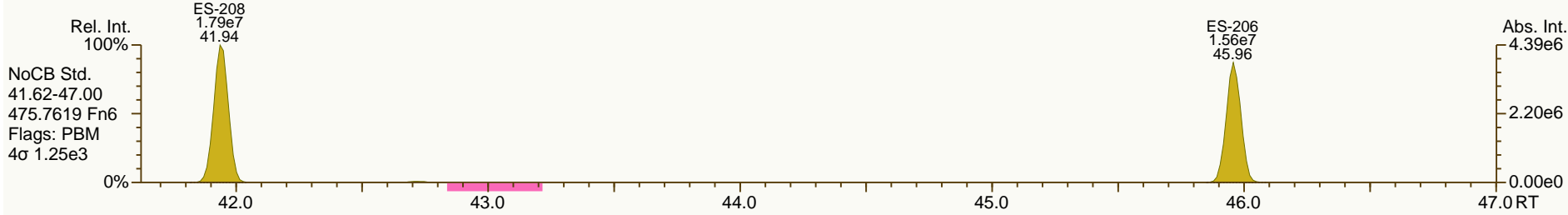
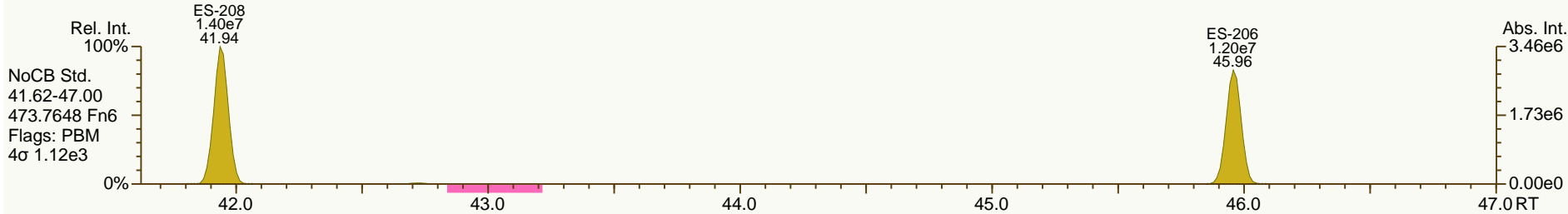
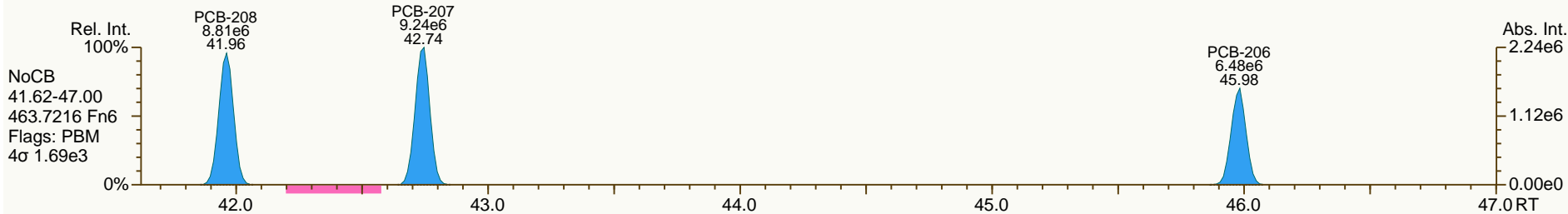
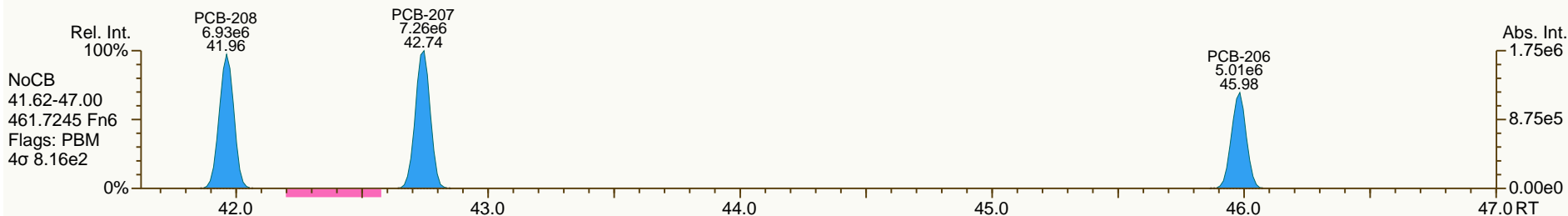
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 User: CTW Datafile: 130911S06



SGS-AP ID: CS3_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-3
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 53

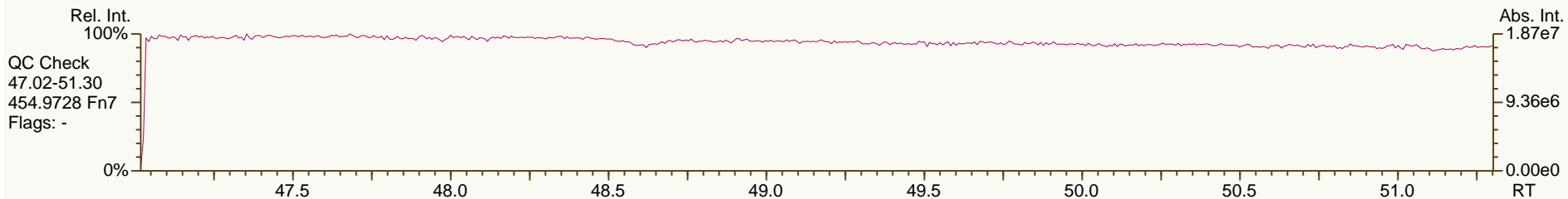
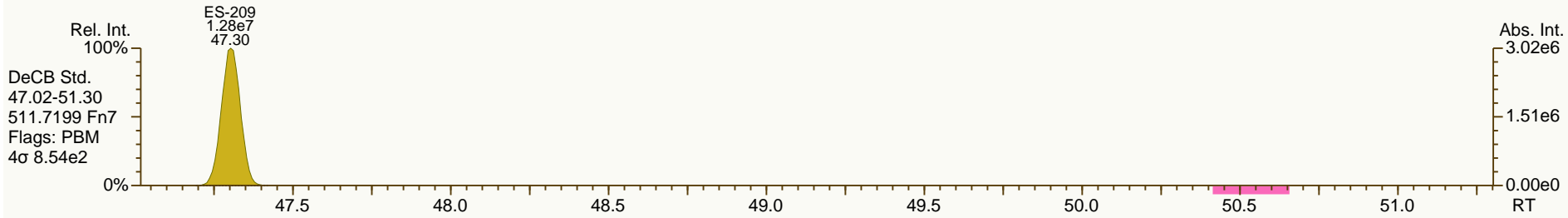
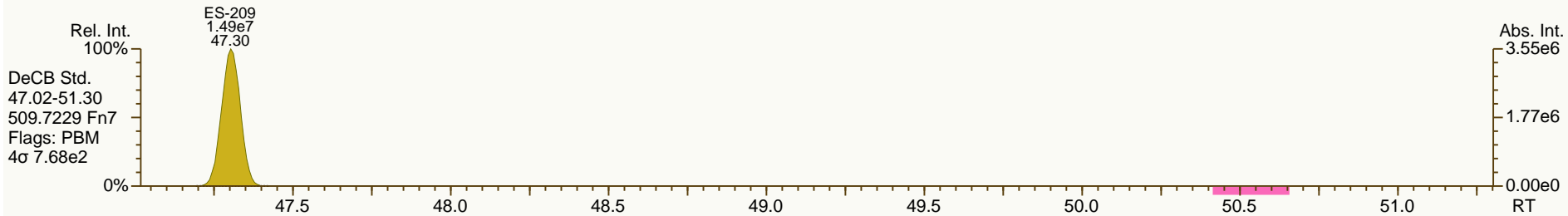
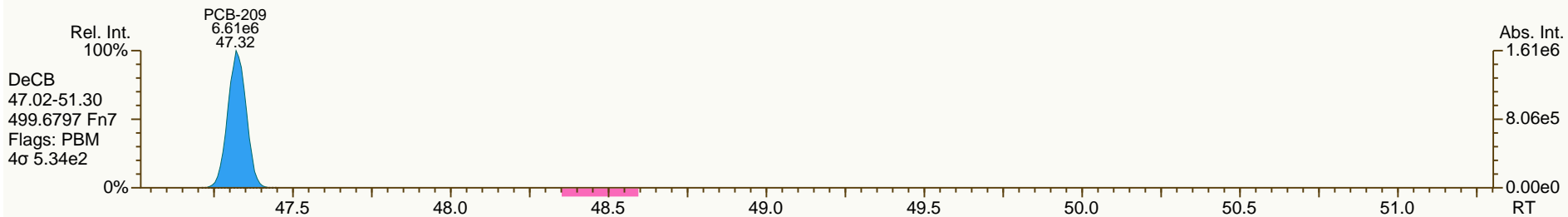
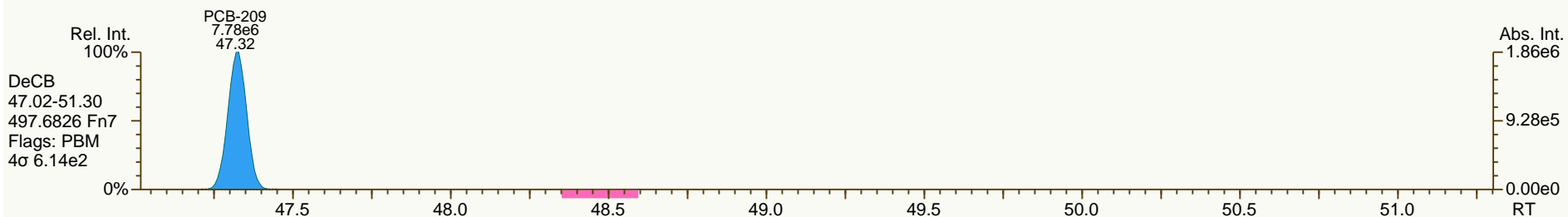
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 User: CTW Datafile: 130911S06



SGS-AP ID: CS3_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-3
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 53

Acq: 11-Sep-2013 16:57:30
 User: CTW Datafile: 130911S06



PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:37			
Lab ID:	CS4_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013						
Acquired:	11-SEP-2013 17:50							
Datafile:	130911S07							
Name	RT	Response	RA	ICAL	RRF	Dev'n		
PCB-77 33'44'-TeCB	29.41	2.97E+08	0.80 Y	1.51	1.60	6.1%		
PCB-81 344'5'-TeCB	28.93	2.89E+08	0.80 Y	1.27	1.39	9.5%		
PCB-105 233'44'-PeCB	32.36	1.84E+08	0.62 Y	1.00	1.08	8.4%		
PCB-114 2344'5'-PeCB	31.82	1.99E+08	0.63 Y	1.06	1.15	8.1%		
PCB-118 23'44'5'-PeCB	31.37	1.89E+08	0.63 Y	1.01	1.09	7.8%		
PCB-123 23'44'5'-PeCB	31.09	1.87E+08	0.62 Y	1.06	1.11	4.7%		
PCB-126 33'44'5'-PeCB	34.96	2.51E+08	0.64 Y	1.26	1.35	7.5%		
PCB-156/157 ...-HxCB	37.49	3.51E+08	1.23 Y	1.06	1.15	8.2%		
PCB-167 23'44'55'-HxCB	36.53	1.88E+08	1.24 Y	1.12	1.21	8.0%		
PCB-169 33'44'55'-HxCB	40.21	1.77E+08	1.28 Y	1.09	1.16	6.6%		
PCB-189 233'44'55'-HpCB	42.34	2.21E+08	1.07 Y	1.15	1.24	7.8%		
PCB-209 DeCB	47.30	1.30E+08	1.18 Y	1.03	1.09	5.4%		
ES PCB-1	9.93	7.56E+07	3.21 Y	1.04	1.04	0.0%		
ES PCB-3	11.86	7.22E+07	3.22 Y	0.99	1.00	0.6%		
ES PCB-4	12.08	5.14E+07	1.57 Y	0.71	0.71	-0.3%		
ES PCB-15	17.20	7.99E+07	1.63 Y	1.09	1.10	1.0%		
ES PCB-19	14.80	4.27E+07	1.04 Y	0.59	0.59	-0.3%		
ES PCB-37	23.20	5.70E+07	1.09 Y	1.32	1.32	0.1%		
ES PCB-54	17.45	5.74E+07	0.79 Y	1.35	1.33	-1.6%		
ES PCB-77	29.39	4.63E+07	0.81 Y	1.07	1.07	0.3%		
ES PCB-81	28.92	5.19E+07	0.80 Y	1.19	1.20	0.9%		
ES PCB-104	22.15	5.24E+07	1.59 Y	1.62	1.54	-4.8%		
ES PCB-105	32.34	4.26E+07	1.57 Y	1.30	1.26	-3.5%		
ES PCB-114	31.79	4.33E+07	1.56 Y	1.32	1.27	-3.3%		
ES PCB-118	31.35	4.34E+07	1.56 Y	1.30	1.28	-1.8%		
ES PCB-123	31.07	4.21E+07	1.55 Y	1.26	1.24	-1.7%		
ES PCB-126	34.94	4.64E+07	1.62 Y	1.41	1.37	-2.8%		
ES PCB-153	32.93	3.63E+07	1.28 Y	1.15	1.14	-1.1%		
ES PCB-155	26.97	4.87E+07	1.28 Y	1.53	1.53	-0.2%		
ES PCB-156/157	37.48	7.62E+07	1.23 Y	1.19	1.20	0.8%		
ES PCB-167	36.51	3.91E+07	1.23 Y	1.22	1.23	0.2%		
ES PCB-169	40.19	3.83E+07	1.27 Y	1.18	1.20	1.7%		
ES PCB-170	39.70	2.95E+07	1.05 Y	1.22	1.21	-1.1%		
ES PCB-180	38.64	3.38E+07	1.05 Y	1.41	1.38	-1.7%		
ES PCB-188	31.79	5.44E+07	1.07 Y	1.71	1.71	0.2%		
ES PCB-189	42.32	4.45E+07	1.06 Y	1.84	1.82	-1.0%		
ES PCB-202	36.31	4.54E+07	0.90 Y	1.42	1.42	0.6%		
ES PCB-205	44.48	3.02E+07	0.91 Y	1.25	1.24	-1.5%		
ES PCB-206	45.94	2.96E+07	0.77 Y	1.24	1.21	-2.0%		
ES PCB-208	41.92	3.39E+07	0.79 Y	1.42	1.39	-2.3%		
ES PCB-209	47.28	2.98E+07	1.18 Y	1.23	1.22	-1.3%		

PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:37		
Lab ID:	CS4_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 17:50						
Datafile:	130911S07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	19.79	6.04E+07	1.08 Y	1.06	1.06	-0.4%	
SS PCB-111	29.43	4.36E+07	1.54 Y	1.06	1.04	-2.3%	
SS PCB-178	34.36	3.07E+07	1.08 Y	0.58	0.56	-3.1%	
CS PCB-28	19.79	6.04E+07	1.08 Y	1.40	1.40	-0.2%	
CS PCB-111	29.43	4.36E+07	1.54 Y	1.34	1.28	-3.9%	
CS PCB-178	34.36	3.07E+07	1.08 Y	0.99	0.96	-2.9%	
JS PCB-9	13.82	7.26E+07	1.61 Y	-	-	-	
JS PCB-52	21.35	4.32E+07	0.77 Y	-	-	-	
JS PCB-101	27.16	3.39E+07	1.56 Y	-	-	-	
JS PCB-138	33.97	3.18E+07	1.24 Y	-	-	-	
JS PCB-194	44.08	2.44E+07	0.89 Y	-	-	-	
PCB-1 2-MoCB	9.94	3.85E+08	3.19 Y	1.20	1.27	6.5%	
PCB-3 4-MoCB	11.88	3.78E+08	3.20 Y	1.24	1.31	5.8%	
PCB-4 22'-DiCB	12.09	2.09E+08	1.55 Y	0.97	1.02	4.8%	
PCB-15 44'-DiCB	17.21	4.11E+08	1.60 Y	1.23	1.29	4.7%	
PCB-19 22'6'-TrCB	14.81	1.76E+08	1.04 Y	0.97	1.03	6.4%	
PCB-37 344'-TrCB	23.22	3.19E+08	1.06 Y	1.28	1.40	8.9%	
PCB-54 22'66'-TeCB	17.47	2.45E+08	0.78 Y	1.00	1.07	6.7%	
PCB-104 22'466'-PeCB	22.17	2.36E+08	0.63 Y	1.06	1.13	6.6%	
PCB-153/168 ...-HxCB	32.97	3.87E+08	1.25 Y	1.26	1.33	6.0%	
PCB-155 22'44'66'-HxCB	26.99	2.35E+08	1.26 Y	1.12	1.21	7.3%	
PCB-170 22'33'44'5'-HpCB	39.72	1.27E+08	1.03 Y	1.01	1.07	6.5%	
PCB-180/193 ...-HpCB	38.64	3.21E+08	1.04 Y	1.11	1.19	6.8%	
PCB-188 22'34'566'-HpCB	31.81	2.22E+08	1.03 Y	0.97	1.02	5.2%	
PCB-202 22'33'55'66'-OcCB	36.33	1.60E+08	0.89 Y	0.83	0.88	6.1%	
PCB-205 233'44'55'6'-OcCB	44.50	1.41E+08	0.89 Y	1.08	1.17	8.0%	
PCB-208 22'33'455'66'-NoCB	41.94	1.42E+08	0.79 Y	0.99	1.05	5.8%	
PCB-206 22'33'44'55'6'-NoCB	45.96	1.04E+08	0.78 Y	0.83	0.88	6.1%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:37			
Lab ID:	CS4_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 17:50						
Datafile:	130911S07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	9.94	3.85E+08	3.19 Y	1.20	1.27	6.5%	
PCB-2 3-MoCB	11.72	3.82E+08	3.21 Y	1.25	1.32	6.0%	
PCB-3 4-MoCB	11.88	3.78E+08	3.20 Y	1.24	1.31	5.8%	
PCB-4 22'-DiCB	12.09	2.09E+08	1.55 Y	0.97	1.02	4.8%	
PCB-10 26'-DiCB	12.25	3.25E+08	1.56 Y	1.51	1.58	4.6%	
PCB-9 25'-DiCB	13.83	3.49E+08	1.60 Y	1.06	1.09	3.2%	
PCB-7 24'-DiCB	13.97	4.01E+08	1.58 Y	1.23	1.26	2.0%	
PCB-6 23'-DiCB	14.18	3.75E+08	1.58 Y	1.14	1.18	3.3%	
PCB-5 23'-DiCB	14.45	3.74E+08	1.57 Y	1.15	1.17	1.9%	
PCB-8 24'-DiCB	14.56	3.82E+08	1.56 Y	1.18	1.20	1.8%	
PCB-14 35'-DiCB	15.96	4.43E+08	1.60 Y	1.31	1.39	5.8%	
PCB-11 33'-DiCB	16.68	3.83E+08	1.57 Y	1.17	1.20	2.5%	
PCB-13/12 34'/34'-DiCB	16.95	7.88E+08	1.59 Y	1.17	1.23	5.8%	
PCB-15 44'-DiCB	17.21	4.11E+08	1.60 Y	1.23	1.29	4.7%	
PCB-19 22'6'-TrCB	14.81	1.76E+08	1.04 Y	0.97	1.03	6.4%	
PCB-30/18 246'/22'5'-TrCB	16.41	4.62E+08	1.04 Y	1.23	1.35	9.4%	
PCB-17 22'4'-TrCB	16.78	1.96E+08	1.03 Y	1.06	1.15	8.5%	
PCB-27 23'6'-TrCB	16.97	2.74E+08	1.03 Y	1.44	1.60	11.4%	
PCB-24 236'-TrCB	17.08	2.59E+08	1.03 Y	1.37	1.52	10.8%	
PCB-16 22'3'-TrCB	17.17	1.50E+08	1.04 Y	0.80	0.88	9.4%	
PCB-32 24'6'-TrCB	17.62	2.87E+08	1.04 Y	1.59	1.68	5.6%	
PCB-34 23'5'-TrCB	18.70	3.09E+08	1.06 Y	1.26	1.35	7.0%	
PCB-23 235'-TrCB	18.83	3.21E+08	1.08 Y	1.31	1.41	7.5%	
PCB-26/29 23'5'/245'-TrCB	19.10	6.51E+08	1.07 Y	1.33	1.43	7.1%	
PCB-25 23'4'-TrCB	19.29	3.29E+08	1.05 Y	1.33	1.44	8.5%	
PCB-31 24'5'-TrCB	19.56	3.38E+08	1.06 Y	1.39	1.48	7.1%	
PCB-28/20 244'/233'-TrCB	19.82	6.38E+08	1.06 Y	1.30	1.40	7.6%	
PCB-21/33 234'/23'4'-TrCB	19.99	6.70E+08	1.07 Y	1.34	1.47	9.5%	
PCB-22 234'-TrCB	20.35	3.02E+08	1.07 Y	1.22	1.32	8.8%	
PCB-36 33'5'-TrCB	21.68	3.33E+08	1.06 Y	1.35	1.46	8.1%	
PCB-39 34'5'-TrCB	21.98	3.47E+08	1.06 Y	1.40	1.52	8.9%	
PCB-38 345'-TrCB	22.48	3.17E+08	1.06 Y	1.25	1.39	11.0%	
PCB-35 33'4'-TrCB	22.87	3.05E+08	1.05 Y	1.23	1.34	8.7%	
PCB-37 344'-TrCB	23.22	3.19E+08	1.06 Y	1.28	1.40	8.9%	
PCB-54 22'66'-TeCB	17.47	2.45E+08	0.78 Y	1.00	1.07	6.7%	
PCB-50/53 22'46'/22'56'-TeCB	19.33	3.61E+08	0.77 Y	0.82	0.87	6.6%	
PCB-45 22'36'-TeCB	19.89	1.62E+08	0.77 Y	0.73	0.78	6.9%	
PCB-51 22'46'-TeCB	19.96	1.81E+08	0.78 Y	0.79	0.87	9.9%	
PCB-46 22'36'-TeCB	20.16	1.46E+08	0.77 Y	0.66	0.70	6.5%	
PCB-52 22'55'-TeCB	21.37	1.73E+08	0.77 Y	0.79	0.83	5.4%	
PCB-73 23'5'6'-TeCB	21.49	2.43E+08	0.77 Y	1.06	1.17	10.4%	
PCB-43 22'35'-TeCB	21.58	1.34E+08	0.78 Y	0.64	0.65	0.8%	
PCB-69/49 23'46'/22'45'-TeCB	21.76	4.23E+08	0.78 Y	0.95	1.02	7.6%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:37			
Lab ID:	CS4_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 17:50						
Datafile:	130911S07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.02	1.75E+08	0.78 Y	0.79	0.84	7.5%	
PCB-44/47/65 ...-TeCB	22.23	5.60E+08	0.78 Y	0.84	0.90	6.9%	
PCB-59/62/75 ...-TeCB	22.50	7.33E+08	0.78 Y	1.07	1.18	9.7%	
PCB-42 22'34'-TeCB	22.66	1.58E+08	0.78 Y	0.72	0.76	5.6%	
PCB-41 22'34'-TeCB	22.98	1.49E+08	0.77 Y	0.66	0.72	9.4%	
PCB-71/40 23'4'6/22'33'-TeCB	23.08	3.51E+08	0.78 Y	0.79	0.85	6.6%	
PCB-64 23'4'6'-TeCB	23.27	2.53E+08	0.77 Y	1.13	1.22	7.6%	
PCB-72 23'55'-TeCB	23.98	2.92E+08	0.79 Y	1.31	1.41	7.6%	
PCB-68 23'45'-TeCB	24.23	3.20E+08	0.79 Y	1.43	1.54	8.0%	
PCB-57 23'35'-TeCB	24.58	2.81E+08	0.80 Y	1.26	1.35	7.4%	
PCB-58 23'35'-TeCB	24.78	2.96E+08	0.80 Y	1.30	1.43	9.5%	
PCB-67 23'45'-TeCB	24.93	3.03E+08	0.78 Y	1.35	1.46	8.3%	
PCB-63 23'45'-TeCB	25.15	3.19E+08	0.79 Y	1.42	1.54	8.2%	
PCB-61/70/74/76 ...-TeCB	25.43	1.19E+09	0.78 Y	1.32	1.43	8.6%	
PCB-66 23'44'-TeCB	25.71	2.80E+08	0.79 Y	1.26	1.35	6.9%	
PCB-55 23'34'-TeCB	25.85	2.78E+08	0.80 Y	1.24	1.34	8.4%	
PCB-56 23'34'-TeCB	26.27	2.73E+08	0.80 Y	1.22	1.31	7.3%	
PCB-60 23'44'-TeCB	26.45	2.87E+08	0.80 Y	1.29	1.38	7.3%	
PCB-80 33'55'-TeCB	26.81	3.22E+08	0.80 Y	1.42	1.55	9.3%	
PCB-79 33'45'-TeCB	28.10	3.34E+08	0.80 Y	1.47	1.61	9.5%	
PCB-78 33'45'-TeCB	28.56	2.71E+08	0.79 Y	1.23	1.30	5.7%	
PCB-104 22'466'-PeCB	22.17	2.36E+08	0.63 Y	1.06	1.13	6.6%	
PCB-96 22'366'-PeCB	22.48	2.09E+08	0.62 Y	0.90	1.00	10.5%	
PCB-103 22'45'6'-PeCB	24.13	1.50E+08	0.61 Y	0.84	0.89	6.2%	
PCB-94 22'356'-PeCB	24.32	1.29E+08	0.61 Y	0.73	0.77	5.5%	
PCB-95 22'35'6'-PeCB	24.69	1.38E+08	0.63 Y	0.78	0.82	5.5%	
PCB-100/93 22'44'6/22'356'-PeCB	24.88	2.86E+08	0.62 Y	0.77	0.85	9.7%	
PCB-102 22'456'-PeCB	25.00	1.42E+08	0.62 Y	0.83	0.84	1.0%	
PCB-98 22'34'6'-PeCB	25.06	1.38E+08	0.64 Y	0.75	0.82	9.4%	
PCB-88 22'346'-PeCB	25.34	1.31E+08	0.62 Y	0.74	0.78	4.9%	
PCB-91 22'34'6'-PeCB	25.42	1.55E+08	0.63 Y	0.83	0.92	11.0%	
PCB-84 22'33'6'-PeCB	25.61	1.17E+08	0.62 Y	0.66	0.70	5.3%	
PCB-89 22'346'-PeCB	26.01	1.25E+08	0.62 Y	0.69	0.74	7.3%	
PCB-121 23'45'6'-PeCB	26.37	1.89E+08	0.61 Y	1.06	1.13	6.3%	
PCB-92 22'355'-PeCB	26.69	1.33E+08	0.61 Y	0.73	0.79	7.9%	
PCB-113/90/101 ...-PeCB	27.16	4.69E+08	0.63 Y	0.85	0.93	8.8%	
PCB-83 22'33'5'-PeCB	27.58	1.19E+08	0.63 Y	0.65	0.71	9.7%	
PCB-99 22'44'5'-PeCB	27.67	1.45E+08	0.63 Y	0.84	0.86	2.3%	
PCB-112 233'56'-PeCB	27.77	1.82E+08	0.63 Y	1.00	1.08	8.3%	
PCB-109/119/86/97/125...-PeCB	28.11	9.55E+08	0.62 Y	0.87	0.94	8.5%	
PCB-117 234'56'-PeCB	28.63	1.76E+08	0.62 Y	0.88	1.05	19.2%	
PCB-116/85 23456/22'344'-PeCB	28.70	3.18E+08	0.63 Y	0.91	0.94	3.2%	
PCB-110 233'4'6'-PeCB	28.84	1.68E+08	0.61 Y	0.99	1.00	1.2%	

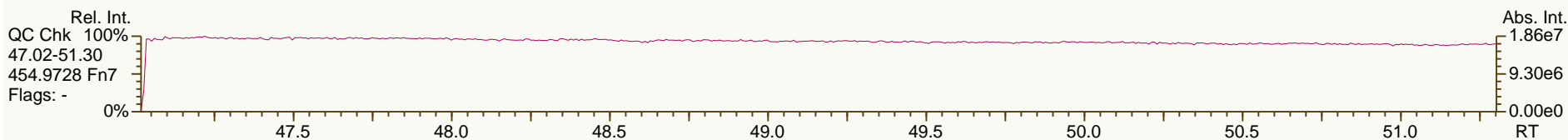
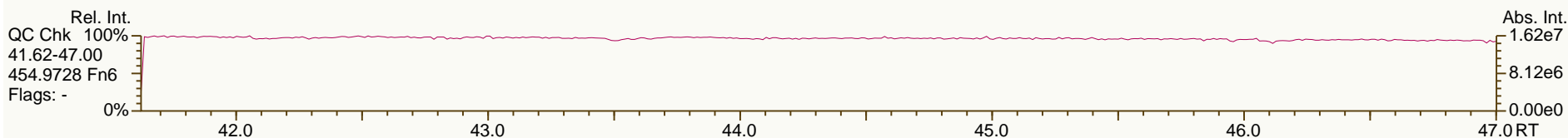
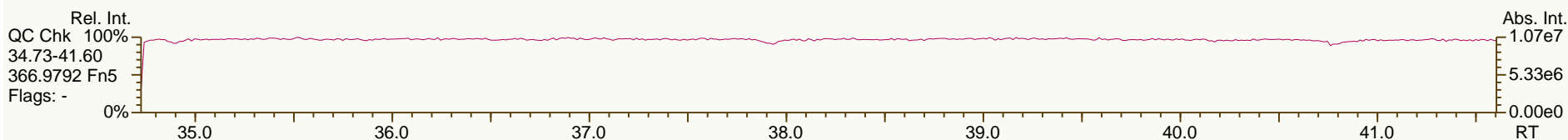
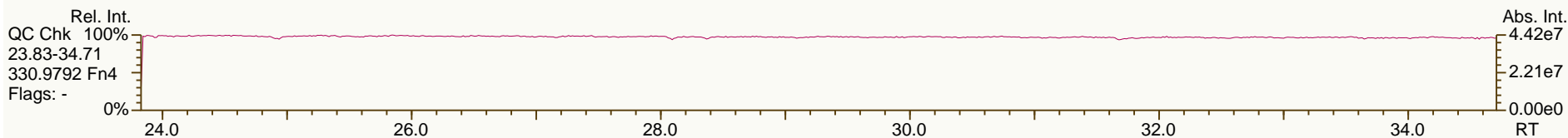
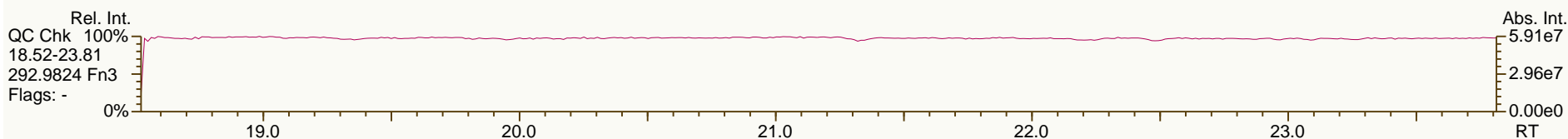
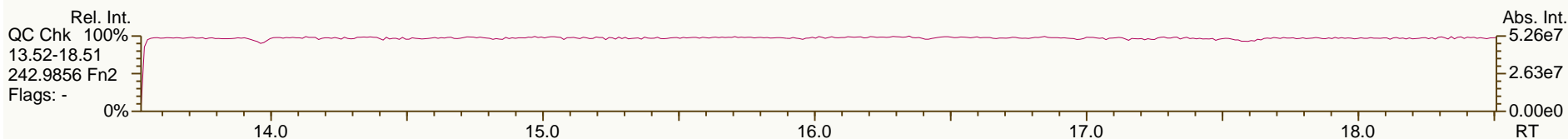
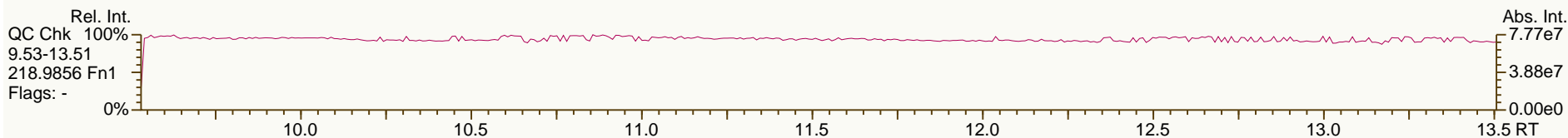
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Acquired:	11-SEP-2013 17:50						
Datafile:	130911S07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	28.91	1.91E+08	0.62 Y	1.01	1.13	12.1%	
PCB-82 22'33'4-PeCB	29.11	1.15E+08	0.63 Y	0.62	0.68	9.0%	
PCB-111 233'55'-PeCB	29.45	1.93E+08	0.63 Y	1.07	1.15	7.2%	
PCB-120 23'455'-PeCB	29.84	1.94E+08	0.63 Y	1.07	1.15	7.5%	
PCB-108/124 ...-PeCB	30.79	3.54E+08	0.61 Y	0.98	1.05	6.7%	
PCB-107 233'4'5-PeCB	30.99	1.98E+08	0.62 Y	1.07	1.17	9.9%	
PCB-106 233'45-PeCB	31.19	1.84E+08	0.61 Y	1.00	1.09	9.5%	
PCB-122 233'4'5'-PeCB	31.66	1.67E+08	0.63 Y	0.89	0.97	8.5%	
PCB-127 33'455'-PeCB	33.60	1.83E+08	0.61 Y	0.98	1.07	9.1%	
PCB-155 22'44'66'-HxCB	26.99	2.35E+08	1.26 Y	1.12	1.21	7.3%	
PCB-152 22'3566'-HxCB	27.15	2.25E+08	1.26 Y	1.05	1.15	9.8%	
PCB-150 22'34'66'-HxCB	27.29	2.19E+08	1.25 Y	1.07	1.12	5.4%	
PCB-136 22'33'66'-HxCB	27.60	2.06E+08	1.26 Y	0.99	1.06	6.9%	
PCB-145 22'3466'-HxCB	27.85	2.09E+08	1.26 Y	1.00	1.07	7.5%	
PCB-148 22'34'56'-HxCB	29.13	1.60E+08	1.26 Y	1.03	1.11	7.7%	
PCB-151/135 ...-HxCB	29.64	3.07E+08	1.26 Y	1.00	1.06	5.7%	
PCB-154 22'44'56'-HxCB	29.84	1.78E+08	1.26 Y	1.13	1.23	9.2%	
PCB-144 22'345'6-HxCB	30.10	1.58E+08	1.25 Y	1.03	1.09	6.0%	
PCB-147/149 ...-HxCB	30.40	3.19E+08	1.26 Y	1.03	1.10	7.1%	
PCB-134 22'33'56-HxCB	30.57	1.35E+08	1.24 Y	0.84	0.93	11.0%	
PCB-143 22'3456'-HxCB	30.65	1.45E+08	1.26 Y	0.95	1.00	5.3%	
PCB-139/140 ...-HxCB	30.91	3.27E+08	1.25 Y	1.05	1.13	7.4%	
PCB-131 22'33'46-HxCB	31.08	1.39E+08	1.25 Y	0.87	0.96	9.8%	
PCB-142 22'3456-HxCB	31.20	1.42E+08	1.25 Y	0.91	0.98	7.5%	
PCB-132 22'33'46'-HxCB	31.46	1.43E+08	1.26 Y	0.92	0.99	7.3%	
PCB-133 22'33'55'-HxCB	31.89	1.49E+08	1.26 Y	0.97	1.03	6.5%	
PCB-165 233'55'6-HxCB	32.22	1.84E+08	1.25 Y	1.19	1.27	6.1%	
PCB-146 22'34'55'-HxCB	32.43	1.68E+08	1.24 Y	1.08	1.16	7.1%	
PCB-161 233'45'6-HxCB	32.54	2.04E+08	1.27 Y	1.34	1.41	4.7%	
PCB-153/168 ...-HxCB	32.97	3.87E+08	1.25 Y	1.26	1.33	6.0%	
PCB-141 22'3455'-HxCB	33.11	1.53E+08	1.24 Y	0.98	1.06	7.8%	
PCB-130 22'33'45'-HxCB	33.45	1.34E+08	1.25 Y	0.88	0.92	5.4%	
PCB-137 22'344'5-HxCB	33.64	1.69E+08	1.25 Y	1.07	1.17	8.9%	
PCB-164 233'4'5'6-HxCB	33.74	1.93E+08	1.26 Y	1.29	1.33	3.3%	
PCB-163/138/129 ...-HxCB	34.02	5.00E+08	1.25 Y	1.05	1.15	9.7%	
PCB-160 233'456-HxCB	34.13	1.91E+08	1.26 Y	1.26	1.31	4.6%	
PCB-158 233'44'6-HxCB	34.33	2.18E+08	1.26 Y	1.40	1.50	7.4%	
PCB-128/166 ...-HxCB	35.05	3.01E+08	1.26 Y	0.89	0.96	8.9%	
PCB-159 233'455'-HxCB	35.89	1.77E+08	1.26 Y	1.04	1.14	9.1%	
PCB-162 233'4'55'-HxCB	36.13	1.76E+08	1.26 Y	1.04	1.12	8.2%	
PCB-188 22'34'566'-HpCB	31.81	2.22E+08	1.03 Y	0.97	1.02	5.2%	
PCB-179 22'33'566'-HpCB	32.09	2.04E+08	1.04 Y	0.89	0.94	4.7%	
PCB-184 22'344'66'-HpCB	32.54	2.02E+08	1.06 Y	0.87	0.93	6.5%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:37			
Lab ID:	CS4_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 17:50						
Datafile:	130911S07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	32.84	2.22E+08	1.06 Y	0.97	1.02	5.8%	
PCB-186 22'34566'-HpCB	33.22	2.12E+08	1.06 Y	0.93	0.97	4.1%	
PCB-178 22'33'55'6'-HpCB	34.38	1.53E+08	1.04 Y	0.67	0.70	4.5%	
PCB-175 22'33'45'6'-HpCB	34.92	1.42E+08	1.05 Y	0.97	1.05	7.4%	
PCB-187 22'34'55'6'-HpCB	35.14	1.47E+08	1.03 Y	1.02	1.09	6.8%	
PCB-182 22'344'56'-HpCB	35.31	1.50E+08	1.03 Y	1.05	1.11	5.6%	
PCB-183 22'344'5'6'-HpCB	35.66	1.62E+08	1.04 Y	1.07	1.20	12.1%	
PCB-185 22'3455'6'-HpCB	35.74	1.31E+08	1.05 Y	0.96	0.97	1.4%	
PCB-174 22'33'456'-HpCB	35.85	1.28E+08	1.04 Y	0.86	0.95	10.7%	
PCB-177 22'33'45'6'-HpCB	36.22	1.23E+08	1.03 Y	0.83	0.91	9.3%	
PCB-181 22'344'56'-HpCB	36.56	1.45E+08	1.03 Y	1.00	1.07	7.6%	
PCB-171/173 ...-HpCB	36.74	2.53E+08	1.03 Y	0.86	0.93	8.1%	
PCB-172 22'33'455'-HpCB	38.12	1.29E+08	1.04 Y	0.87	0.96	9.6%	
PCB-192 233'455'6'-HpCB	38.35	1.72E+08	1.04 Y	1.19	1.27	7.0%	
PCB-180/193 ...-HpCB	38.64	3.21E+08	1.04 Y	1.11	1.19	6.8%	
PCB-191 233'44'5'6'-HpCB	38.96	1.78E+08	1.04 Y	1.23	1.32	6.6%	
PCB-170 22'33'44'5'-HpCB	39.72	1.27E+08	1.03 Y	1.01	1.07	6.5%	
PCB-190 233'44'56'-HpCB	40.16	1.77E+08	1.03 Y	1.42	1.49	5.5%	
PCB-202 22'33'55'66'-OcCB	36.33	1.60E+08	0.89 Y	0.83	0.88	6.1%	
PCB-201 22'33'45'66'-OcCB	37.10	1.79E+08	0.89 Y	0.94	0.99	4.6%	
PCB-204 22'344'566'-OcCB	37.67	1.70E+08	0.89 Y	0.87	0.94	7.5%	
PCB-197 22'33'44'66'-OcCB	37.86	1.76E+08	0.89 Y	0.97	0.97	-0.6%	
PCB-200 22'33'4566'-OcCB	37.95	1.82E+08	0.89 Y	0.89	1.00	12.7%	
PCB-198/199 ...-OcCB	40.29	2.52E+08	0.88 Y	0.66	0.69	6.1%	
PCB-196 22'33'44'56'-OcCB	40.86	1.32E+08	0.89 Y	0.70	0.73	3.6%	
PCB-203 22'344'55'6'-OcCB	41.03	1.38E+08	0.89 Y	0.74	0.76	3.2%	
PCB-195 22'33'44'56'-OcCB	42.14	1.01E+08	0.91 Y	0.78	0.84	7.6%	
PCB-194 22'33'44'55'-OcCB	44.10	1.10E+08	0.89 Y	0.85	0.91	7.8%	
PCB-205 233'44'55'6'-OcCB	44.50	1.41E+08	0.89 Y	1.08	1.17	8.0%	
PCB-208 22'33'455'66'-NoCB	41.94	1.42E+08	0.79 Y	0.99	1.05	5.8%	
PCB-207 22'33'44'566'-NoCB	42.72	1.49E+08	0.79 Y	1.03	1.10	7.0%	
PCB-206 22'33'44'55'6'-NoCB	45.96	1.04E+08	0.78 Y	0.83	0.88	6.1%	

SGS-AP ID: CS4_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

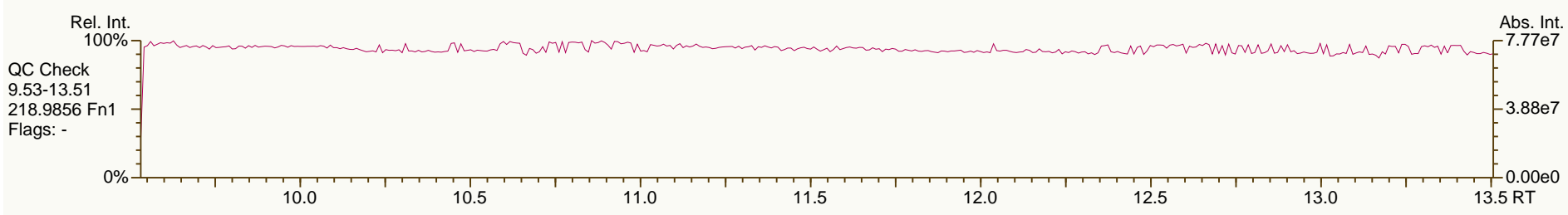
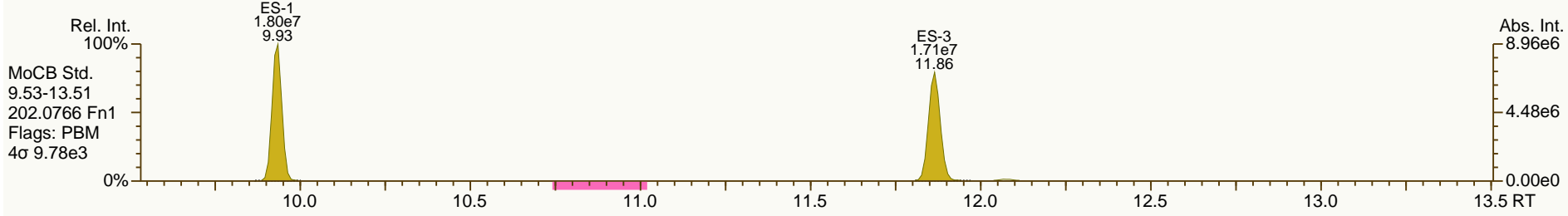
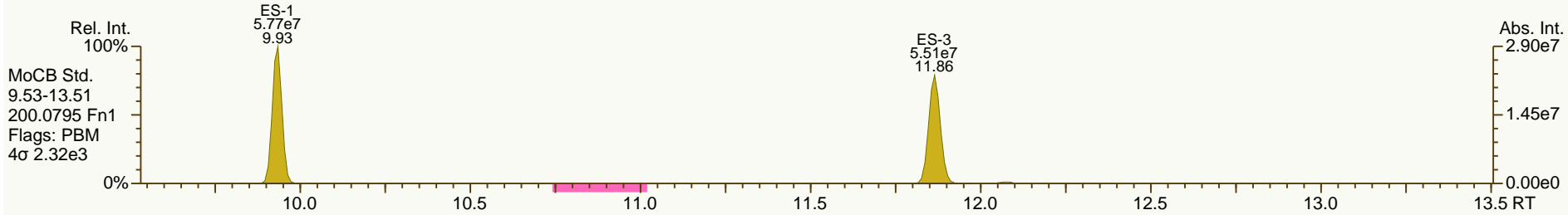
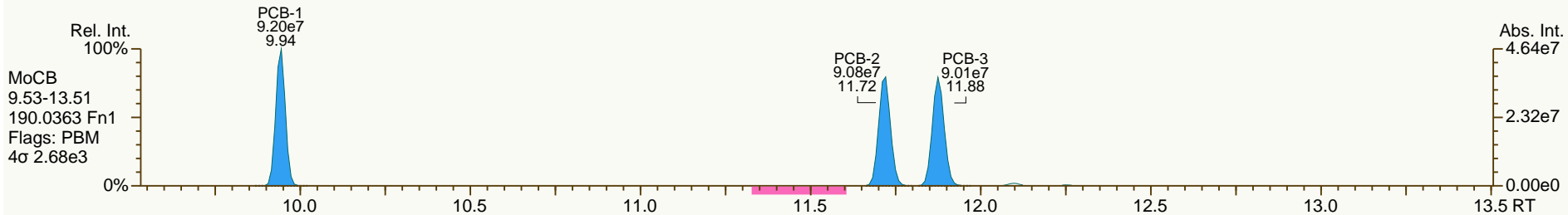
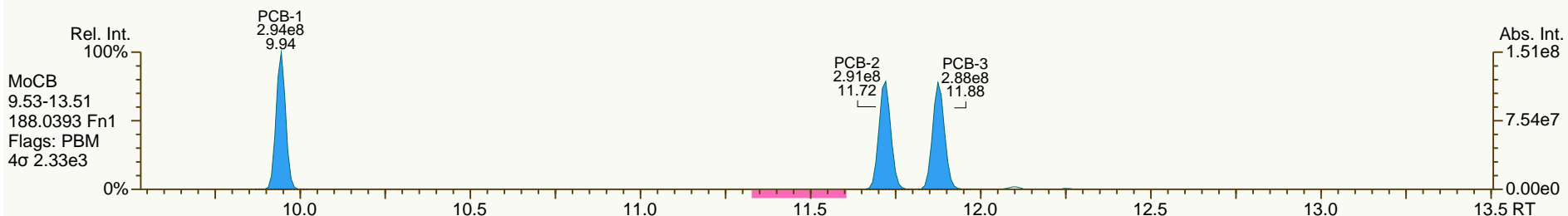
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

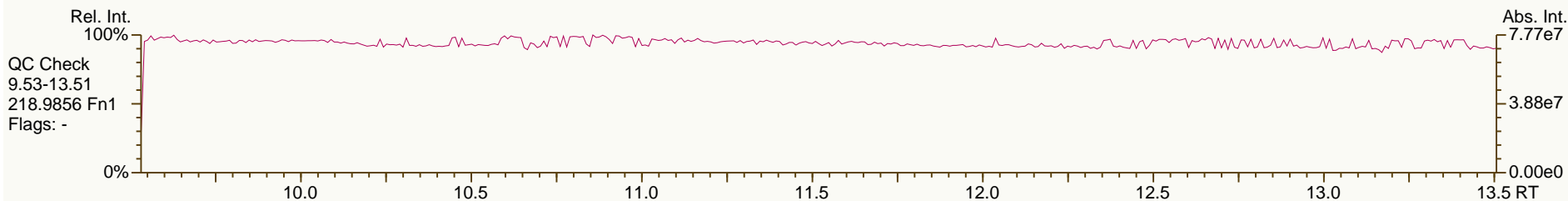
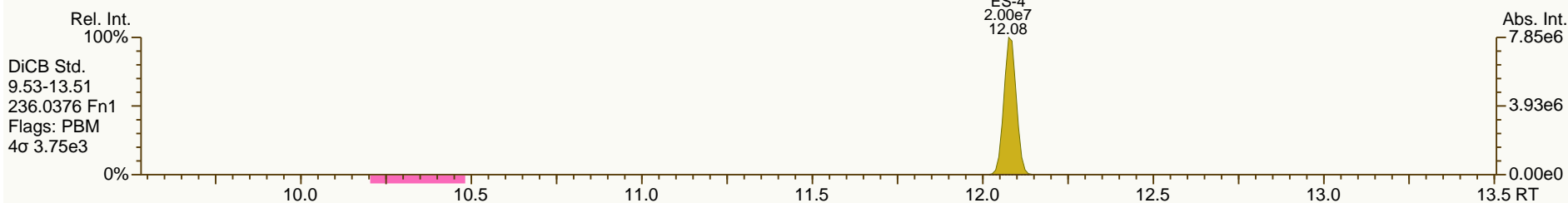
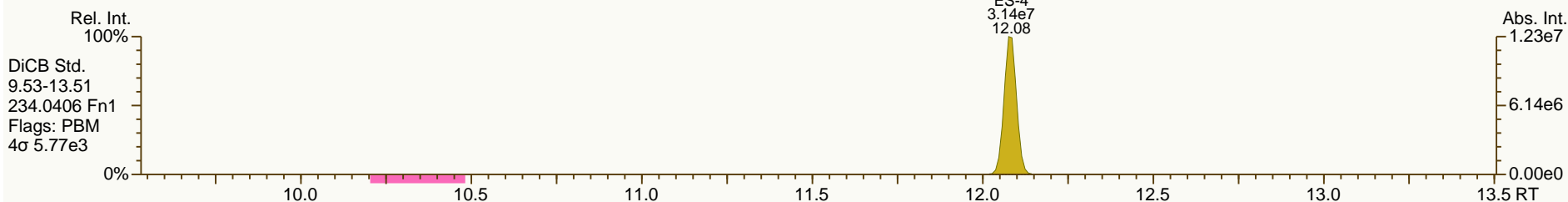
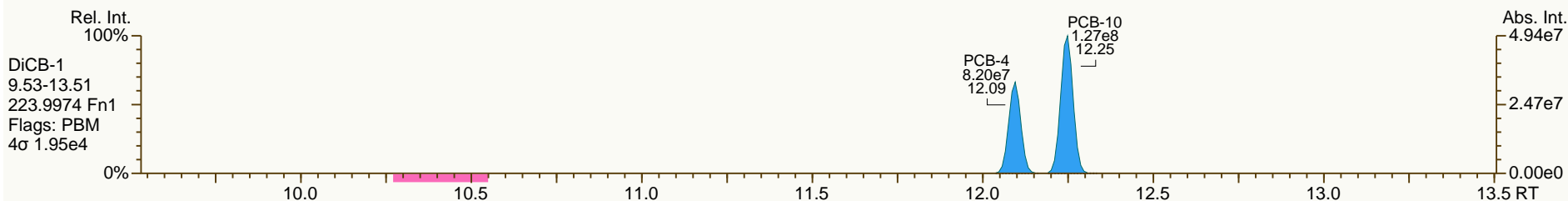
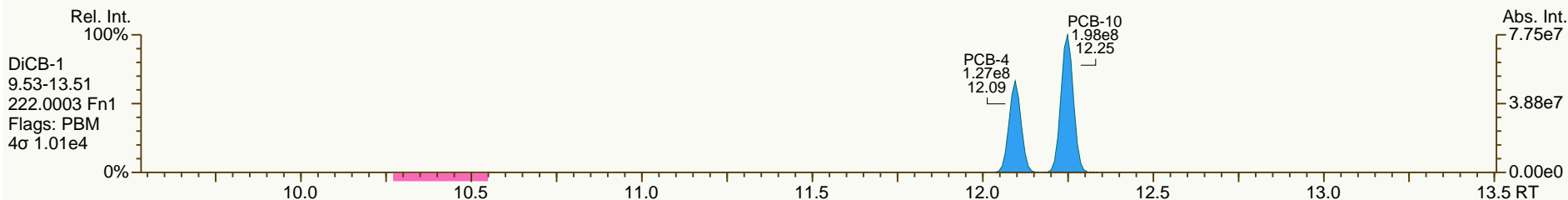
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SGS-AP ID: CS4_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

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User: CTW Datafile: 130911S07



SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

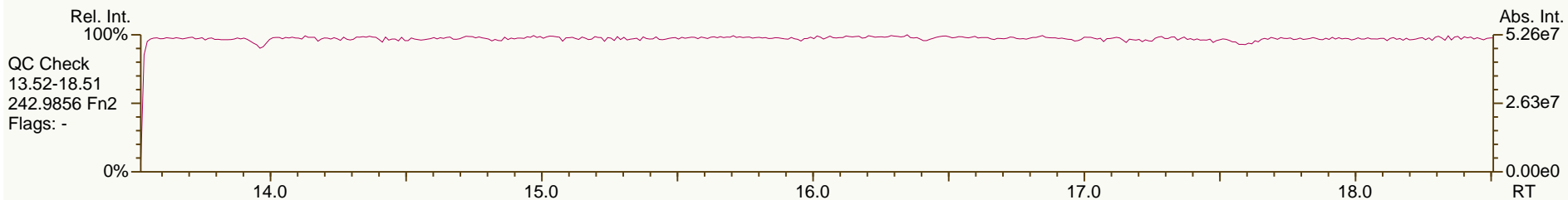
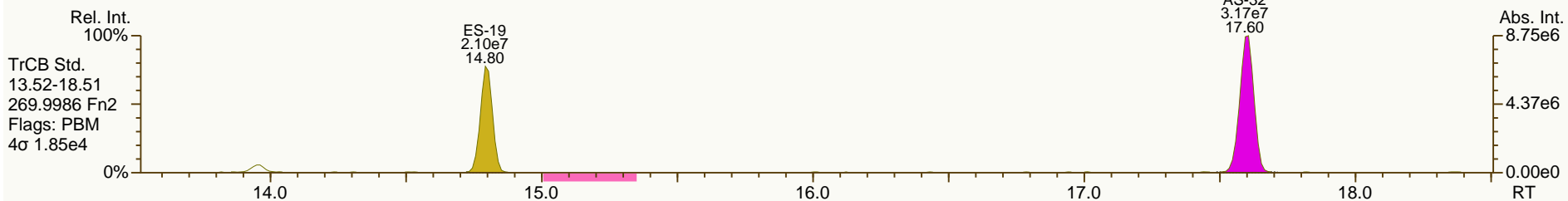
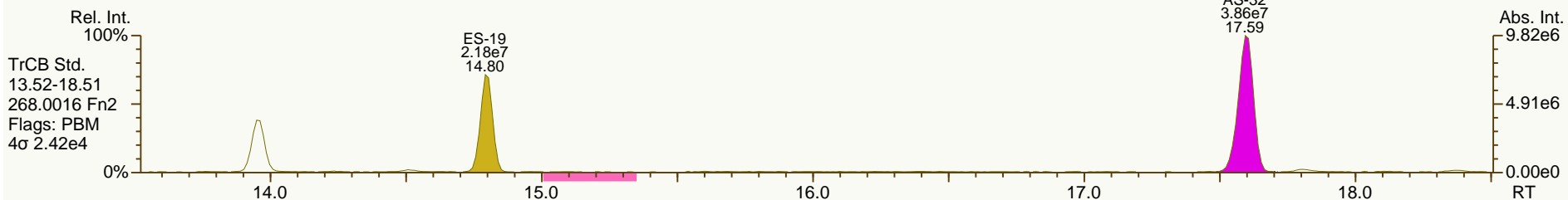
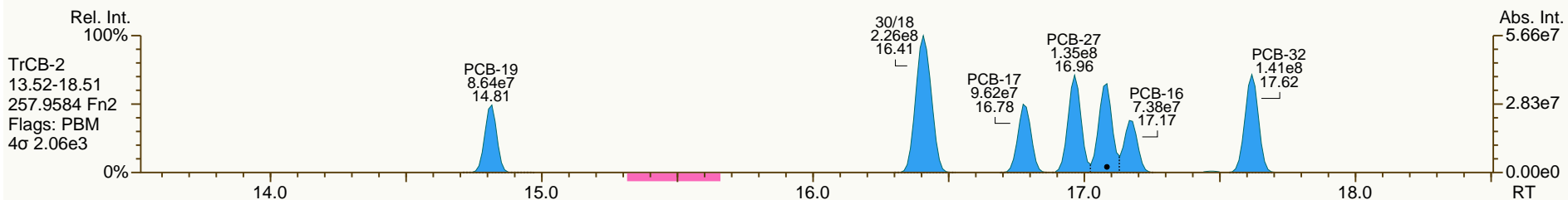
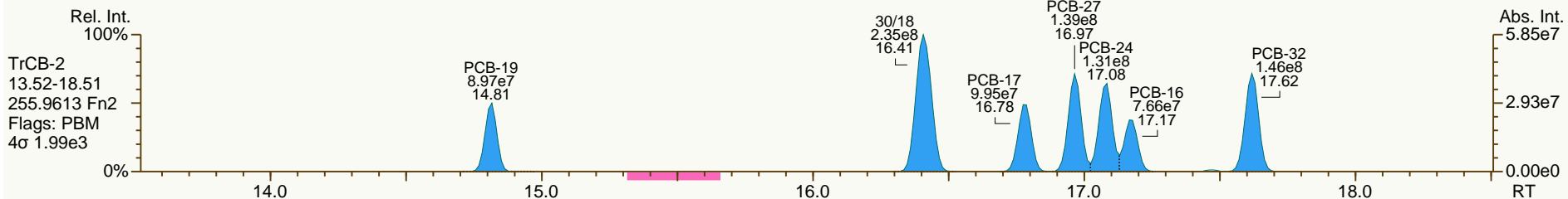
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

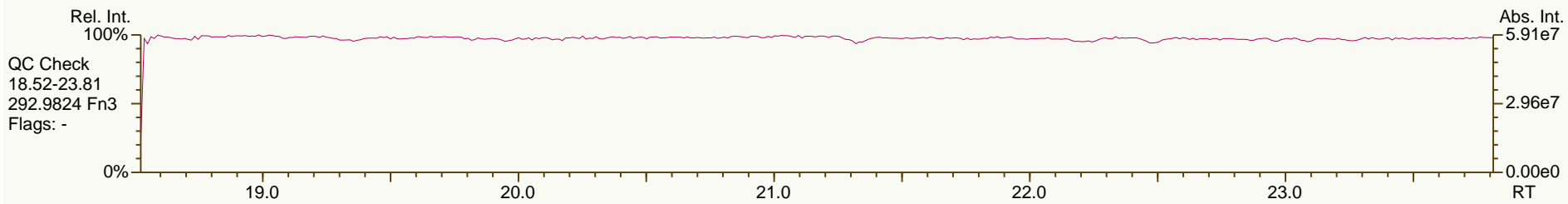
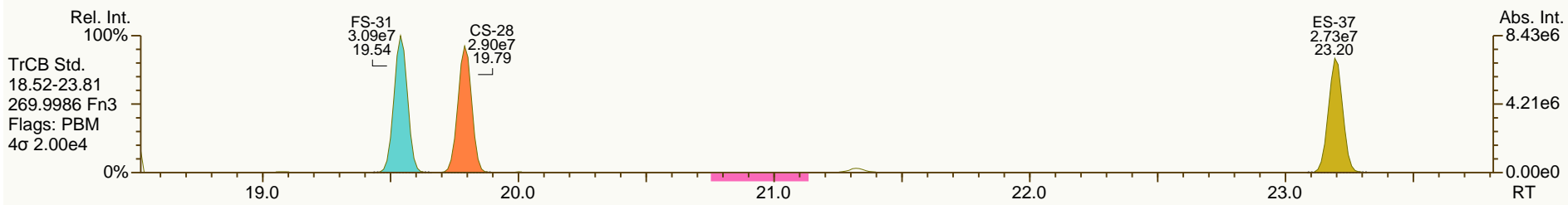
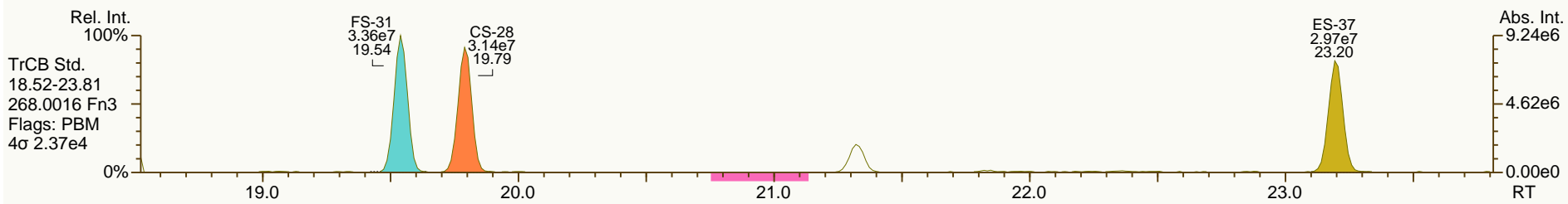
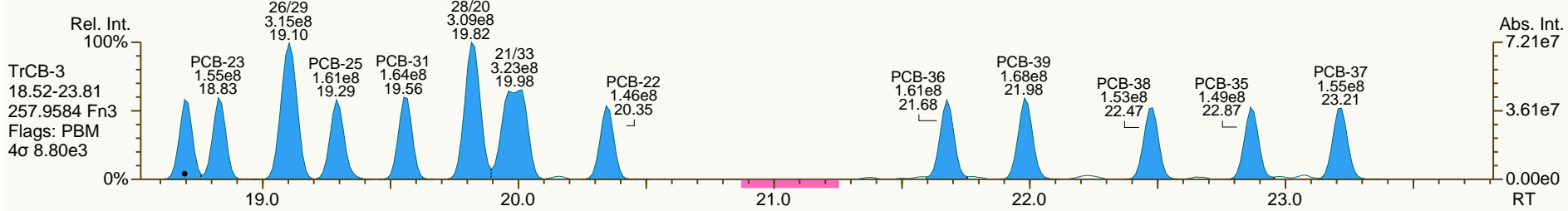
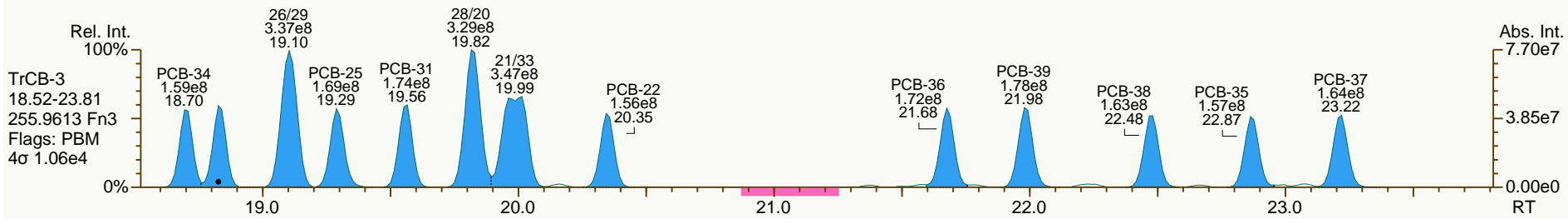
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

Acq: 11-Sep-2013 17:50:46
 User: CTW Datafile: 130911S07



SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

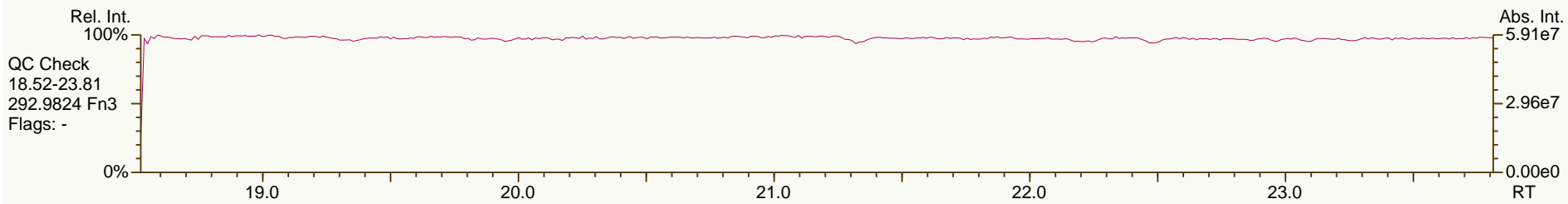
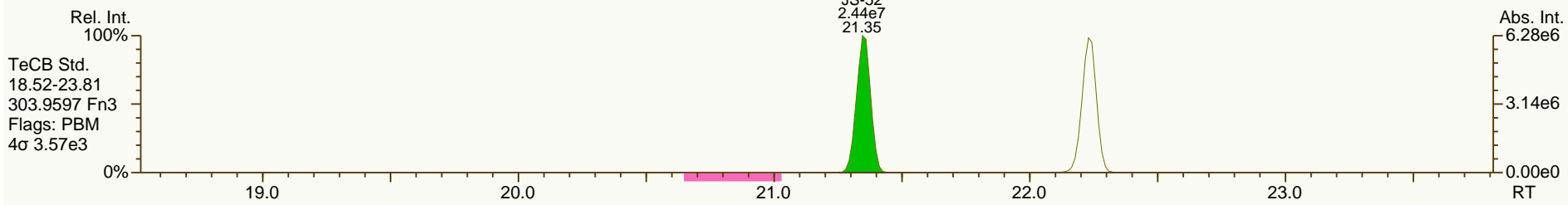
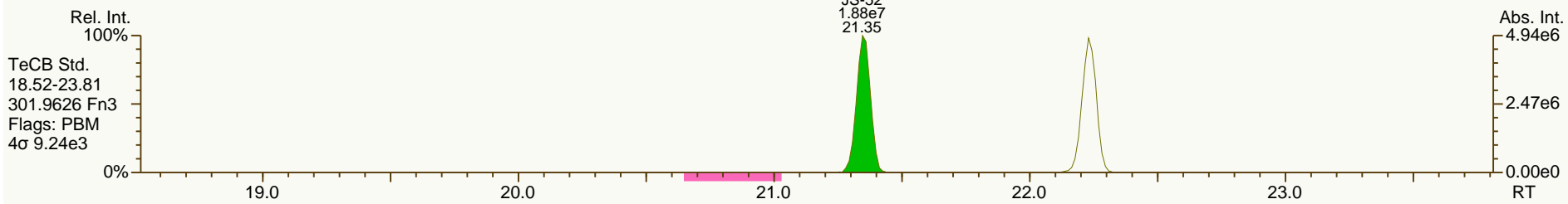
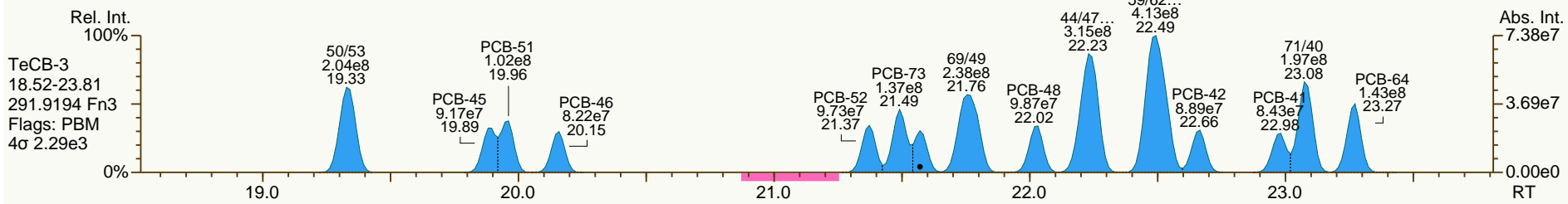
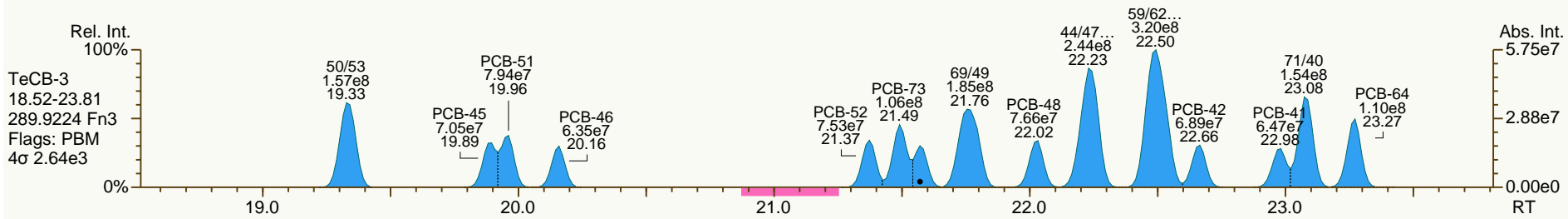
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

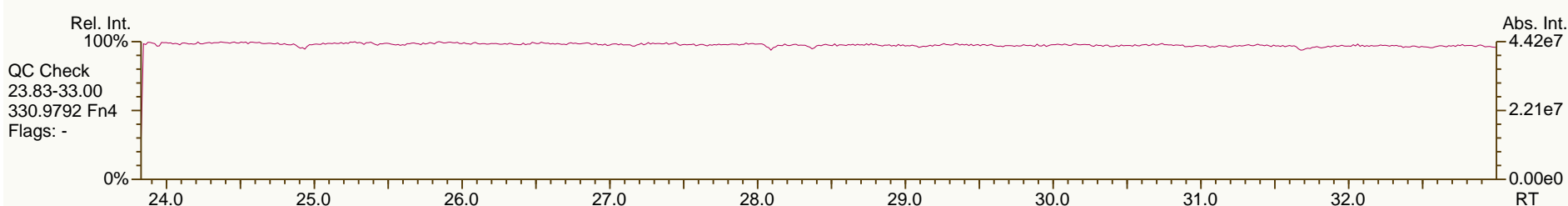
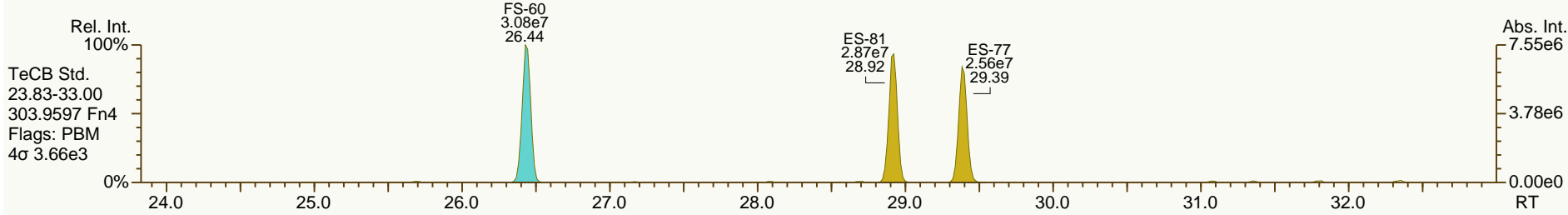
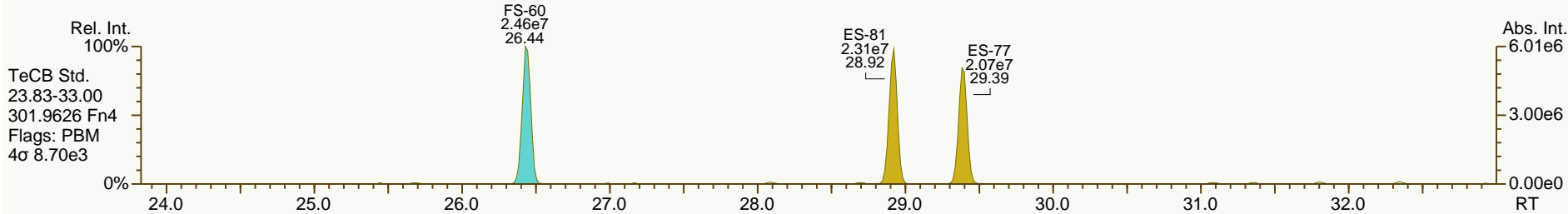
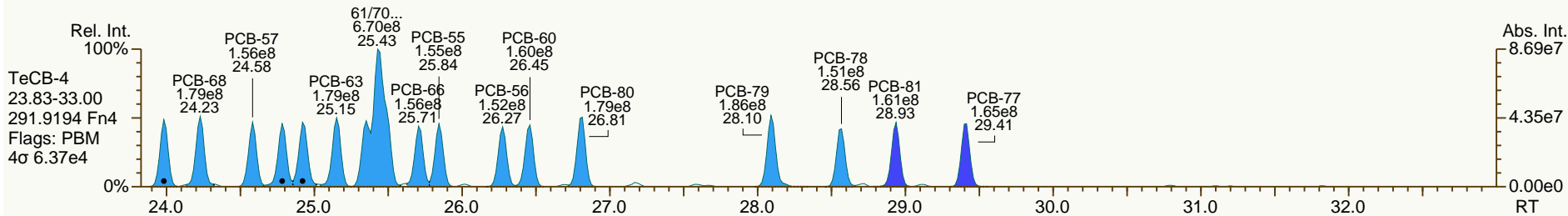
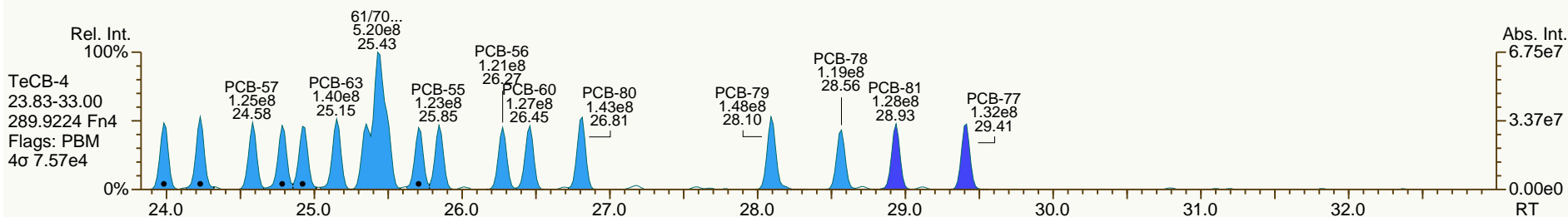
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

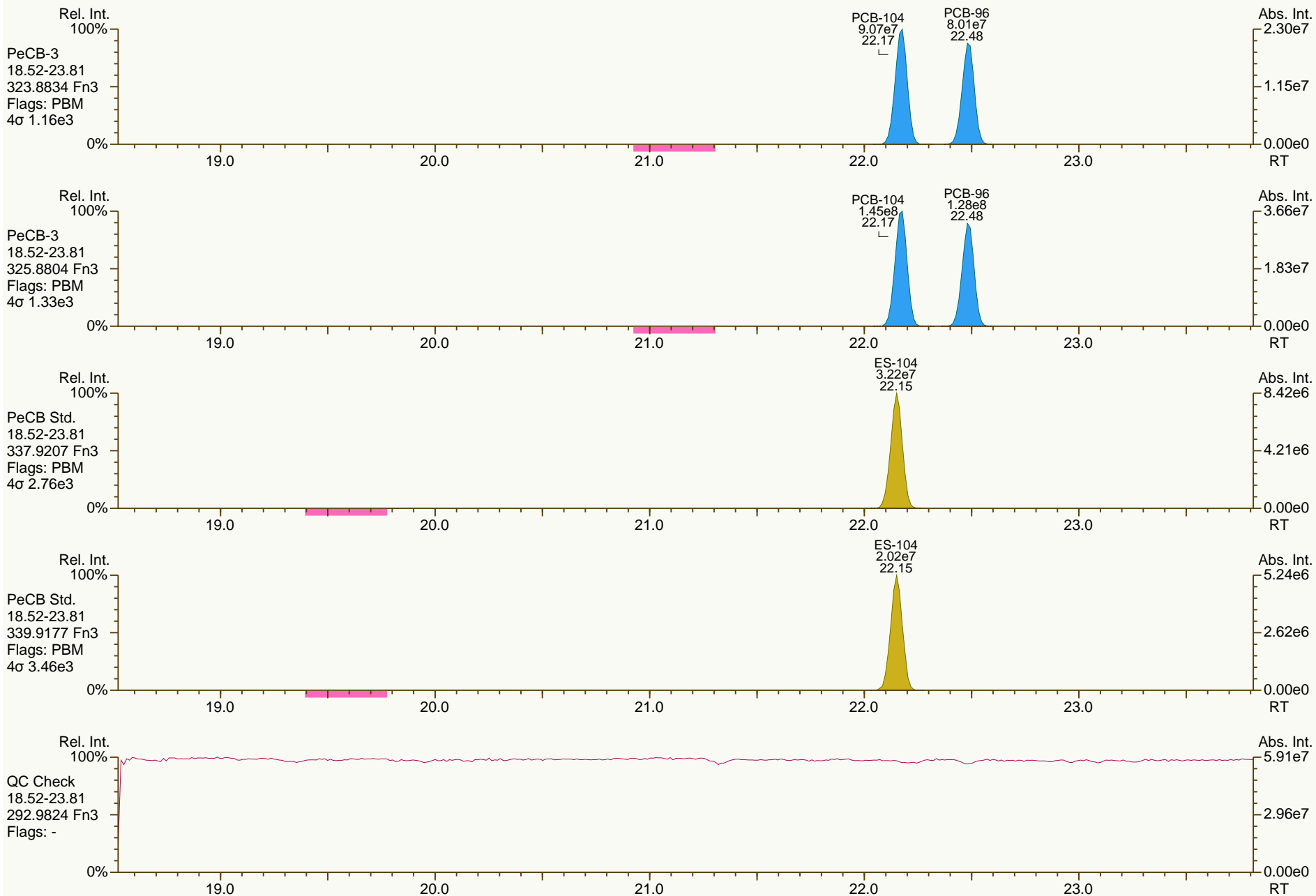
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SGS-AP ID: CS4_130911_PCB_SB
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Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

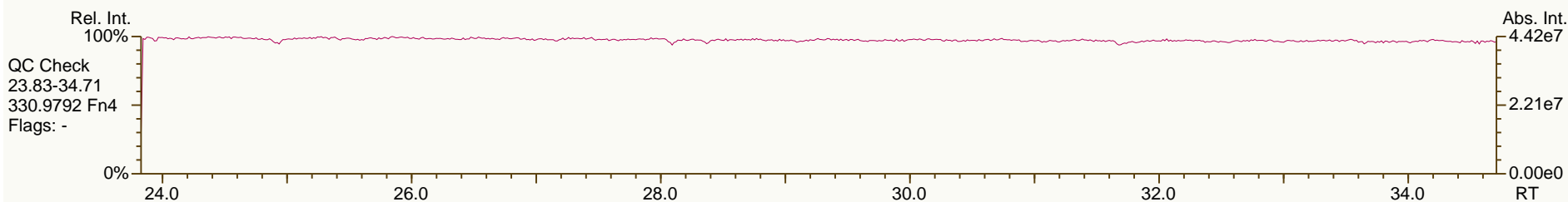
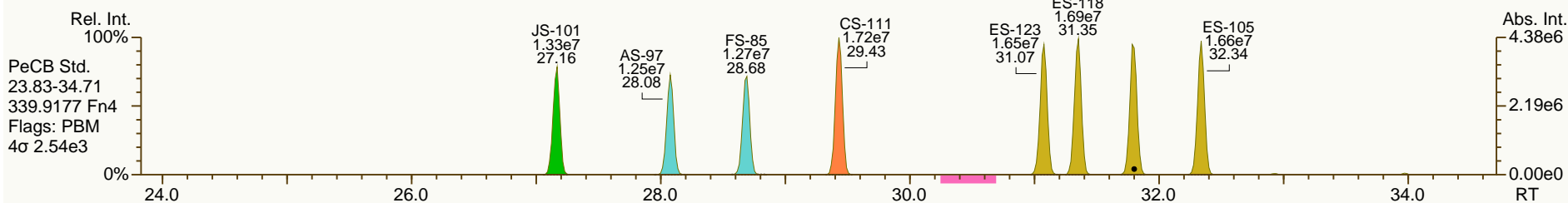
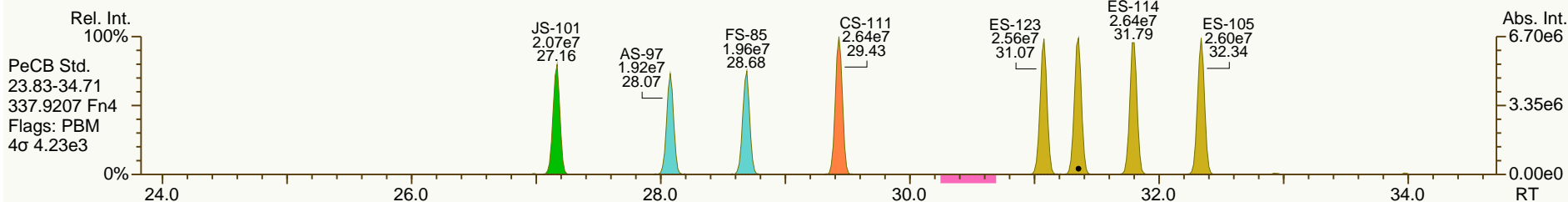
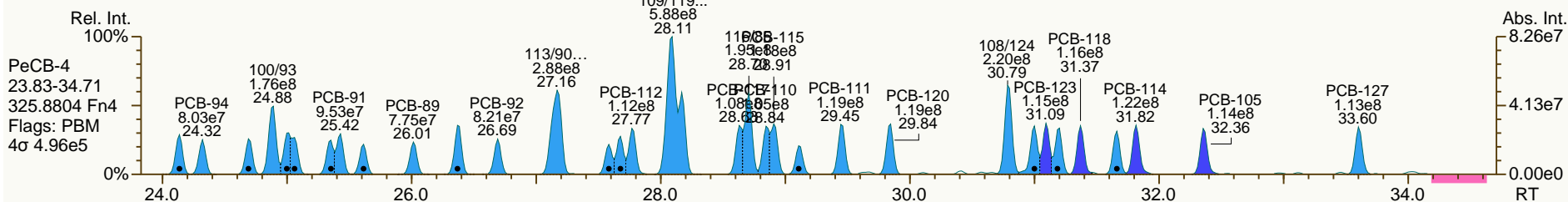
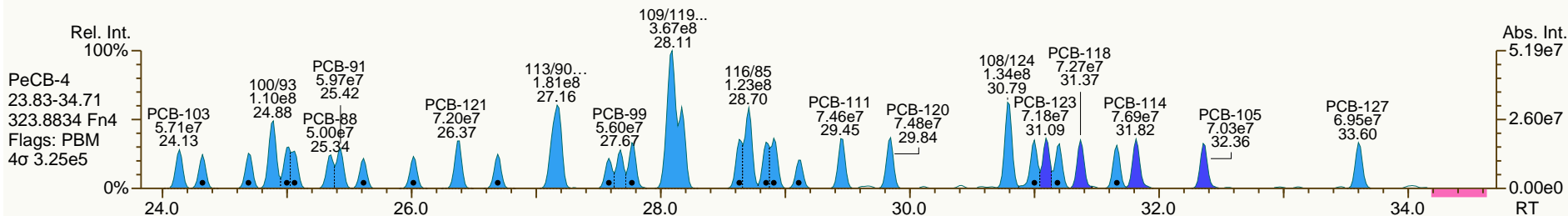
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 User: CTW Datafile: 130911S07



SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

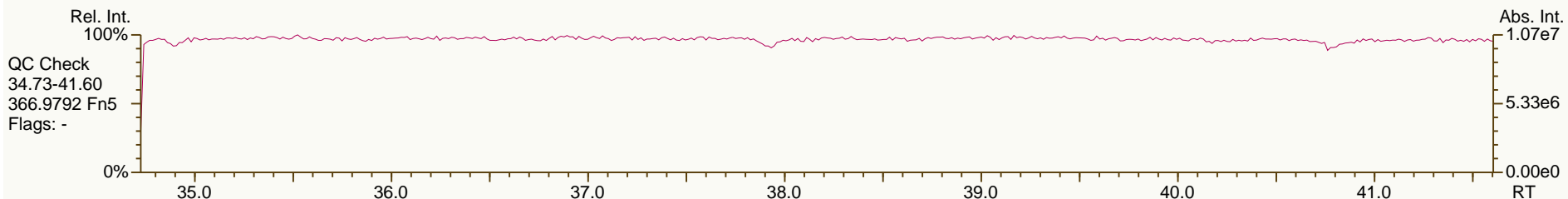
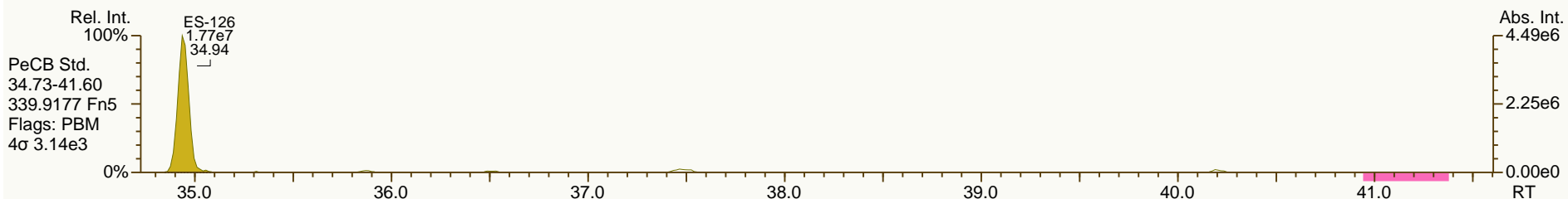
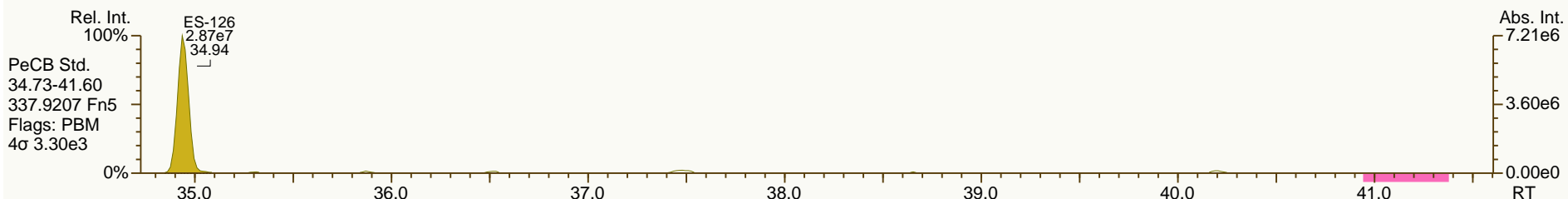
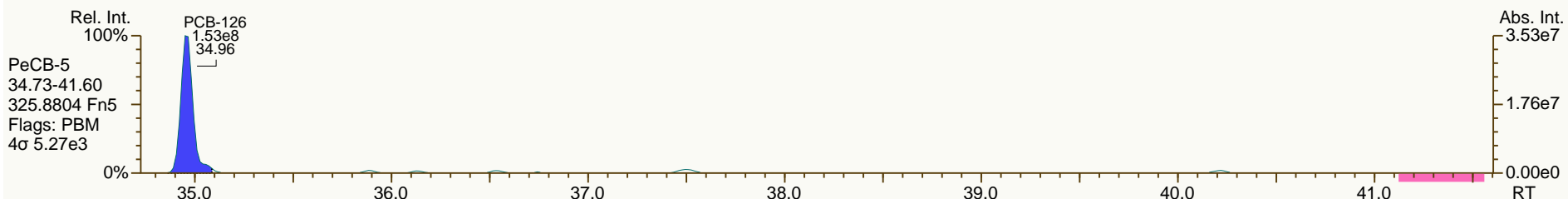
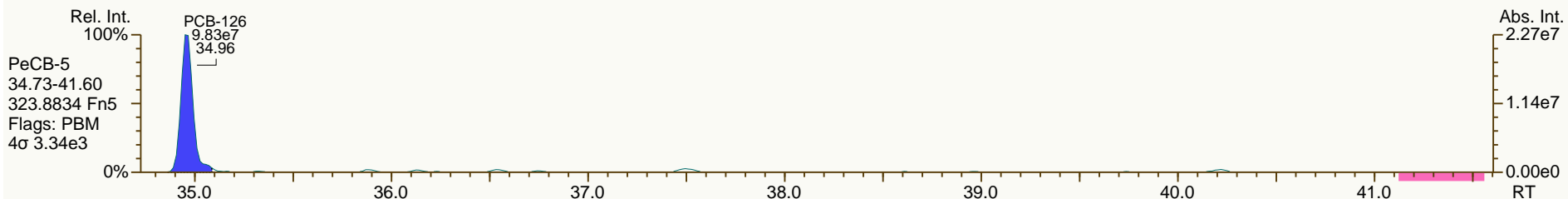
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

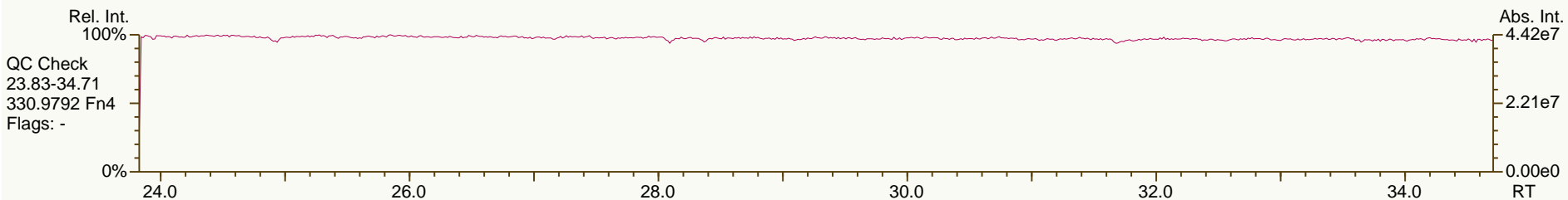
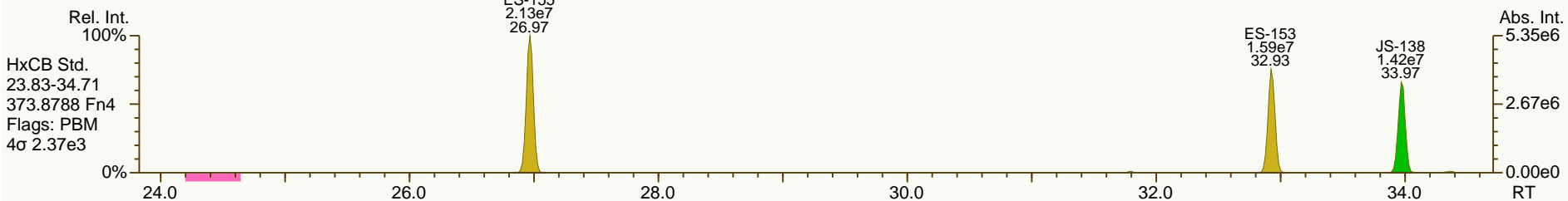
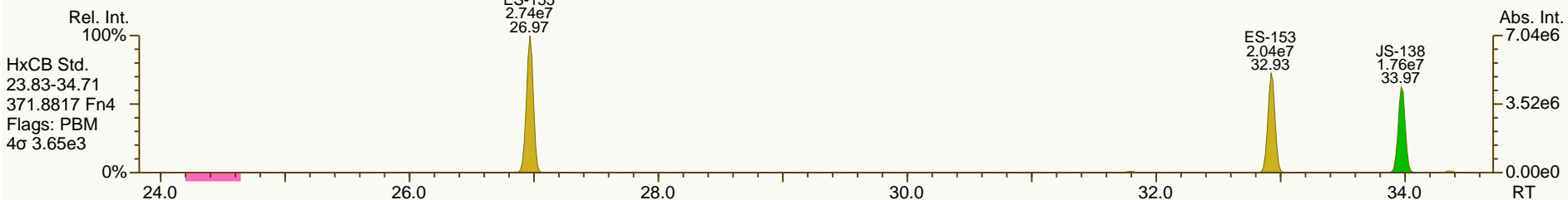
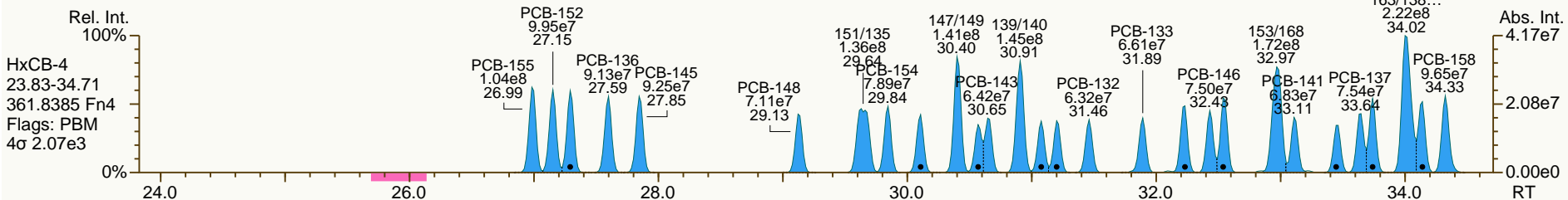
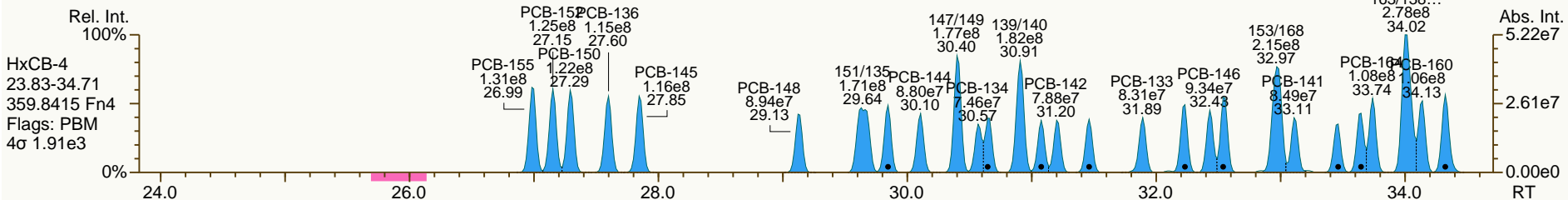
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

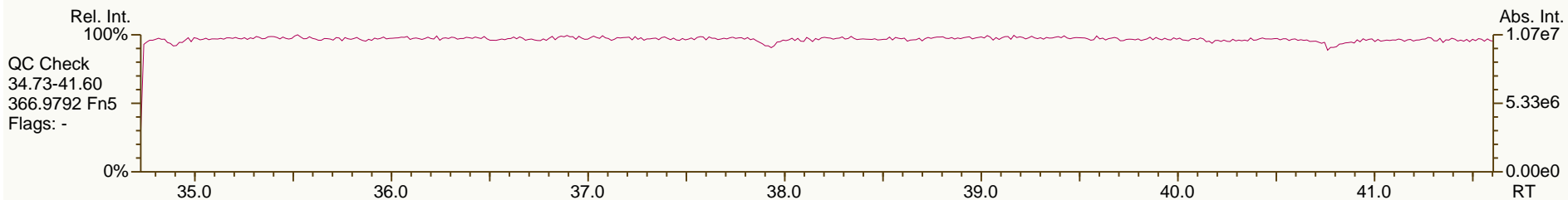
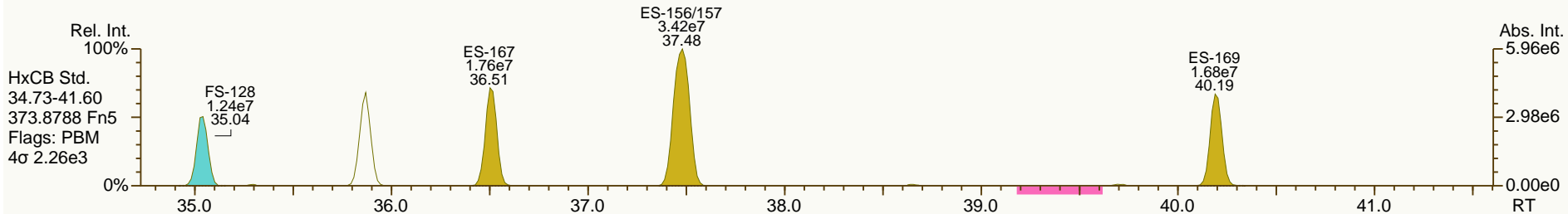
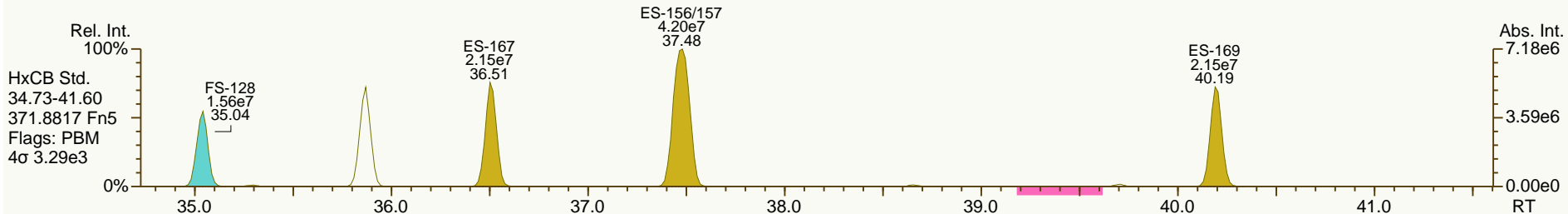
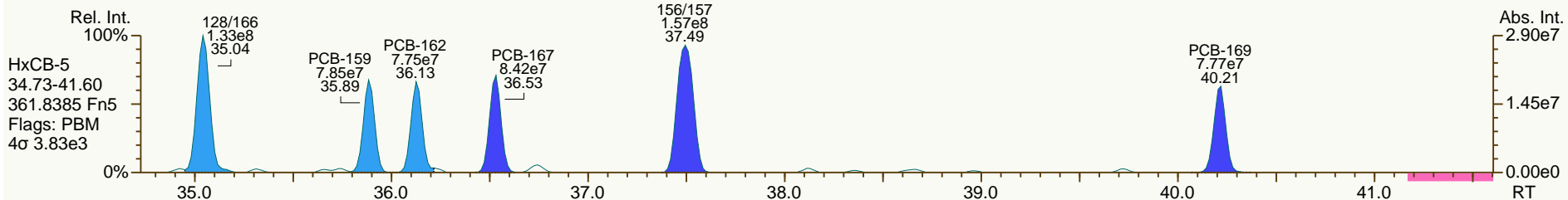
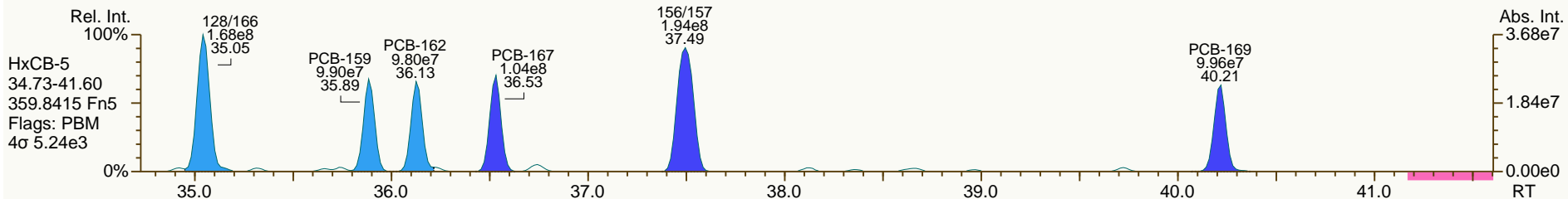
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

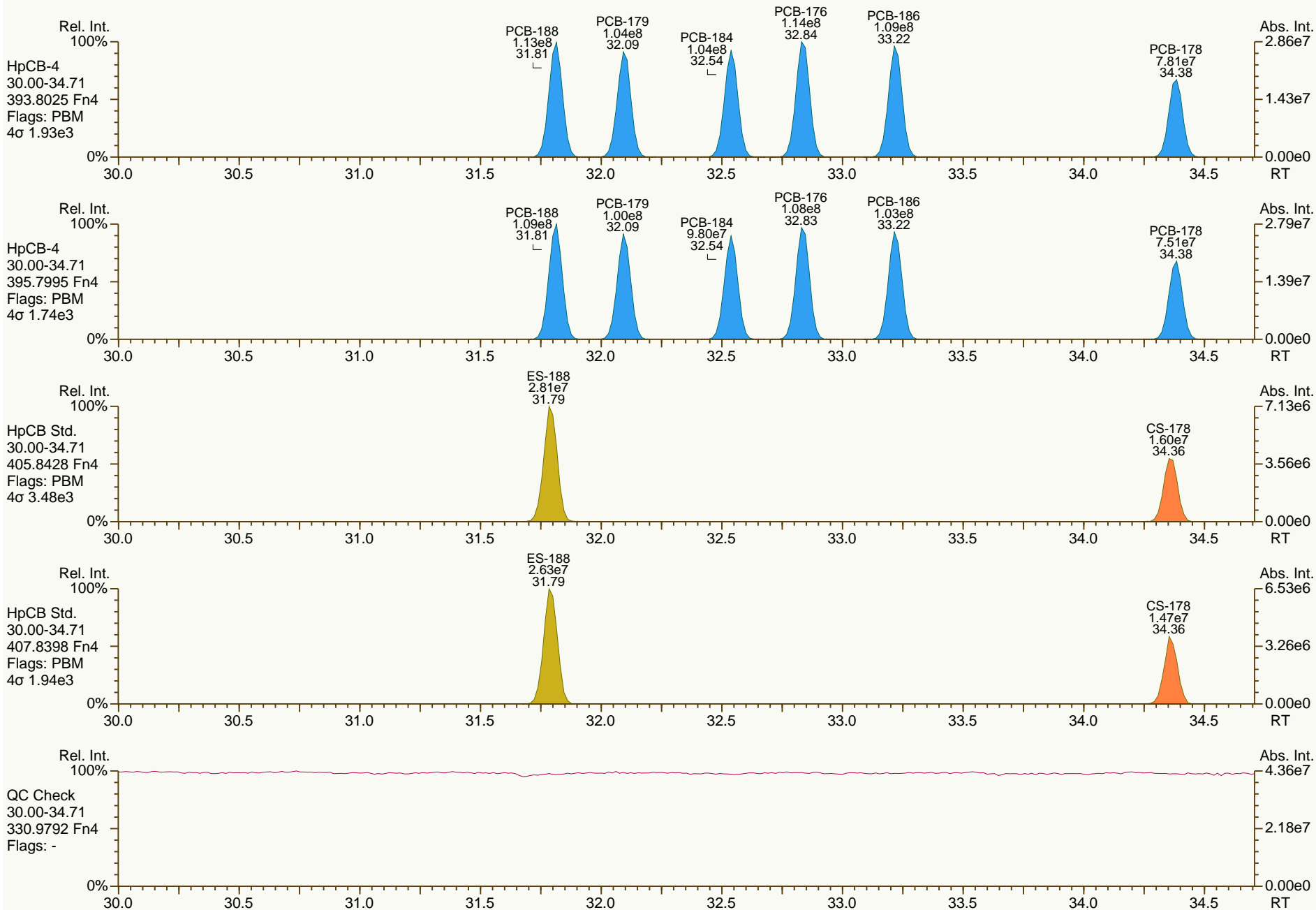
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

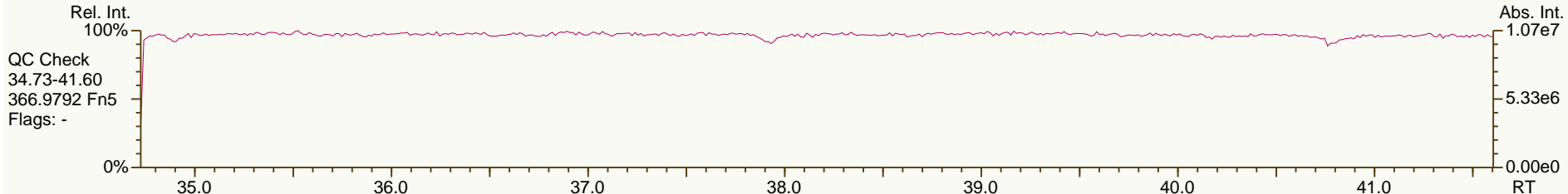
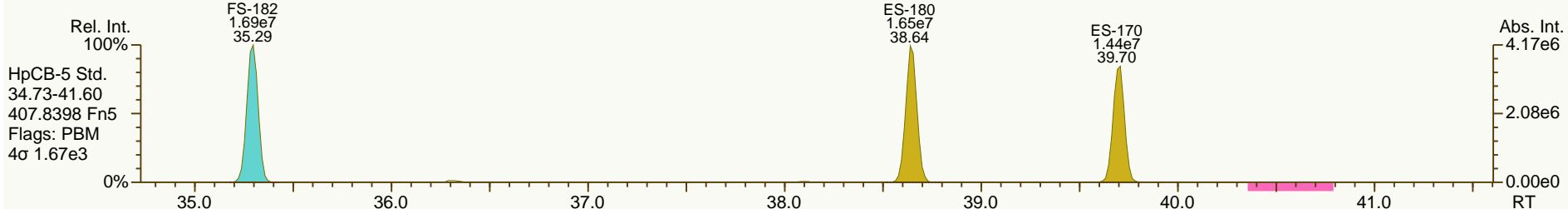
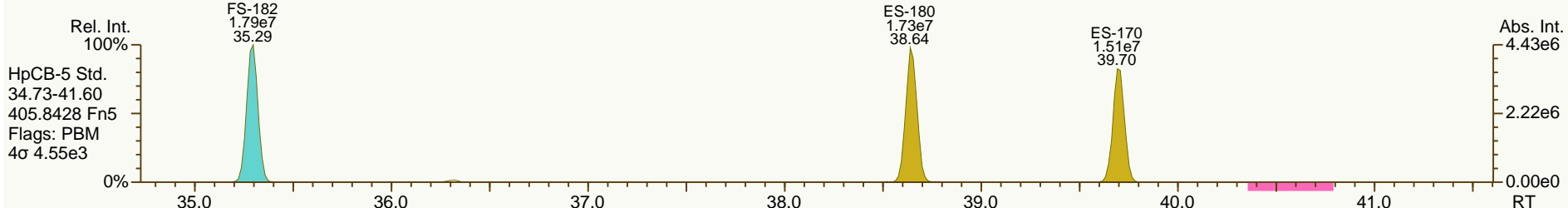
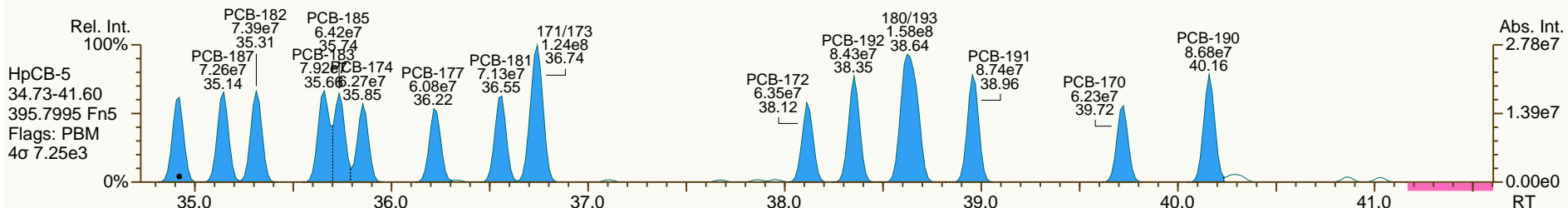
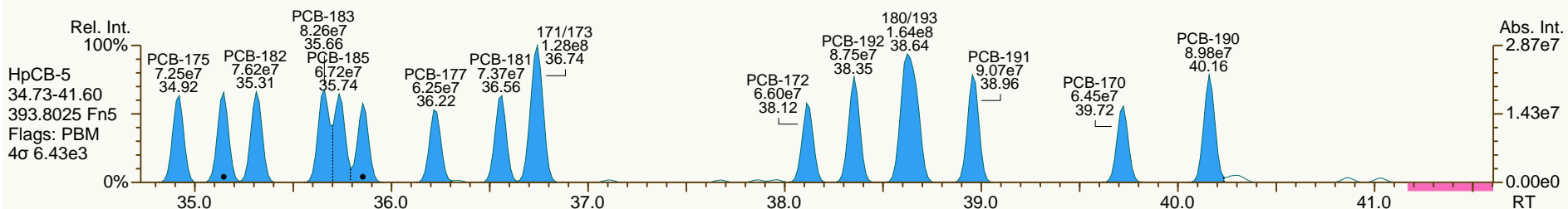
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

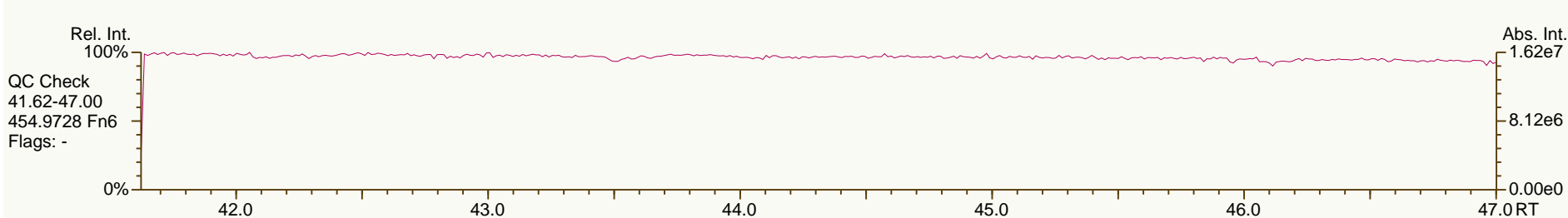
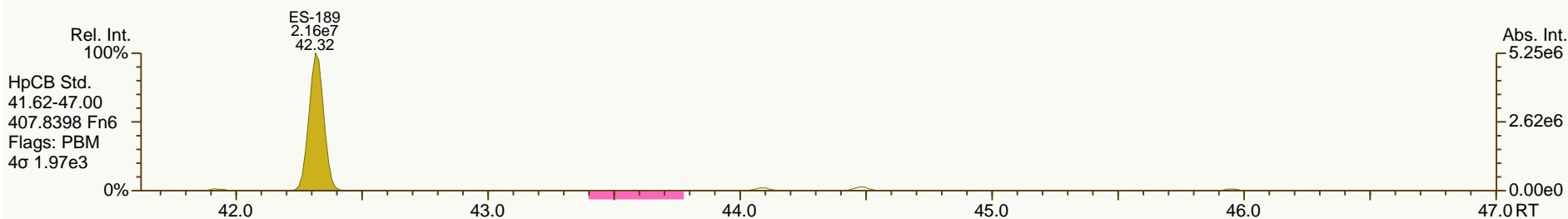
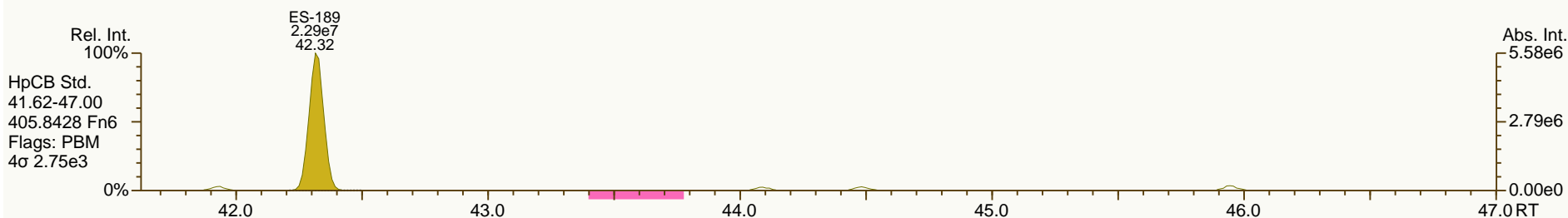
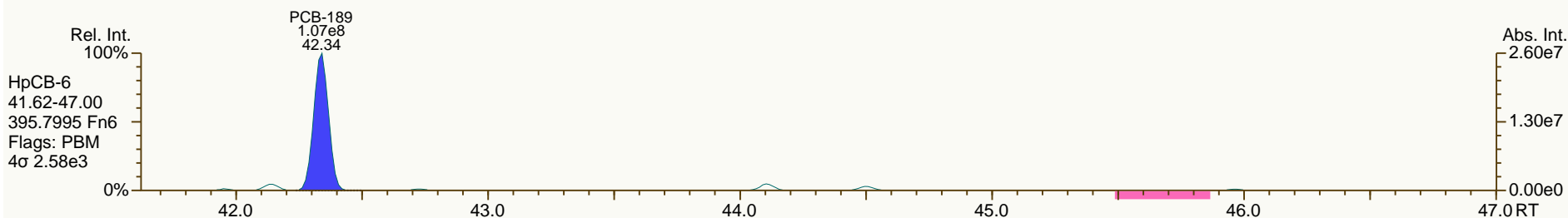
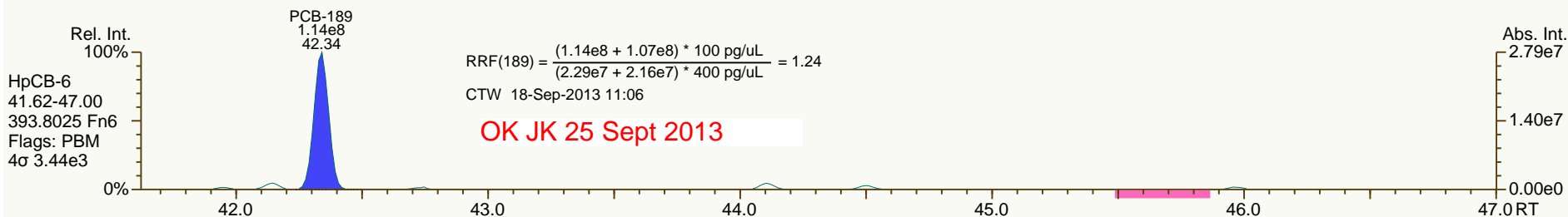
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

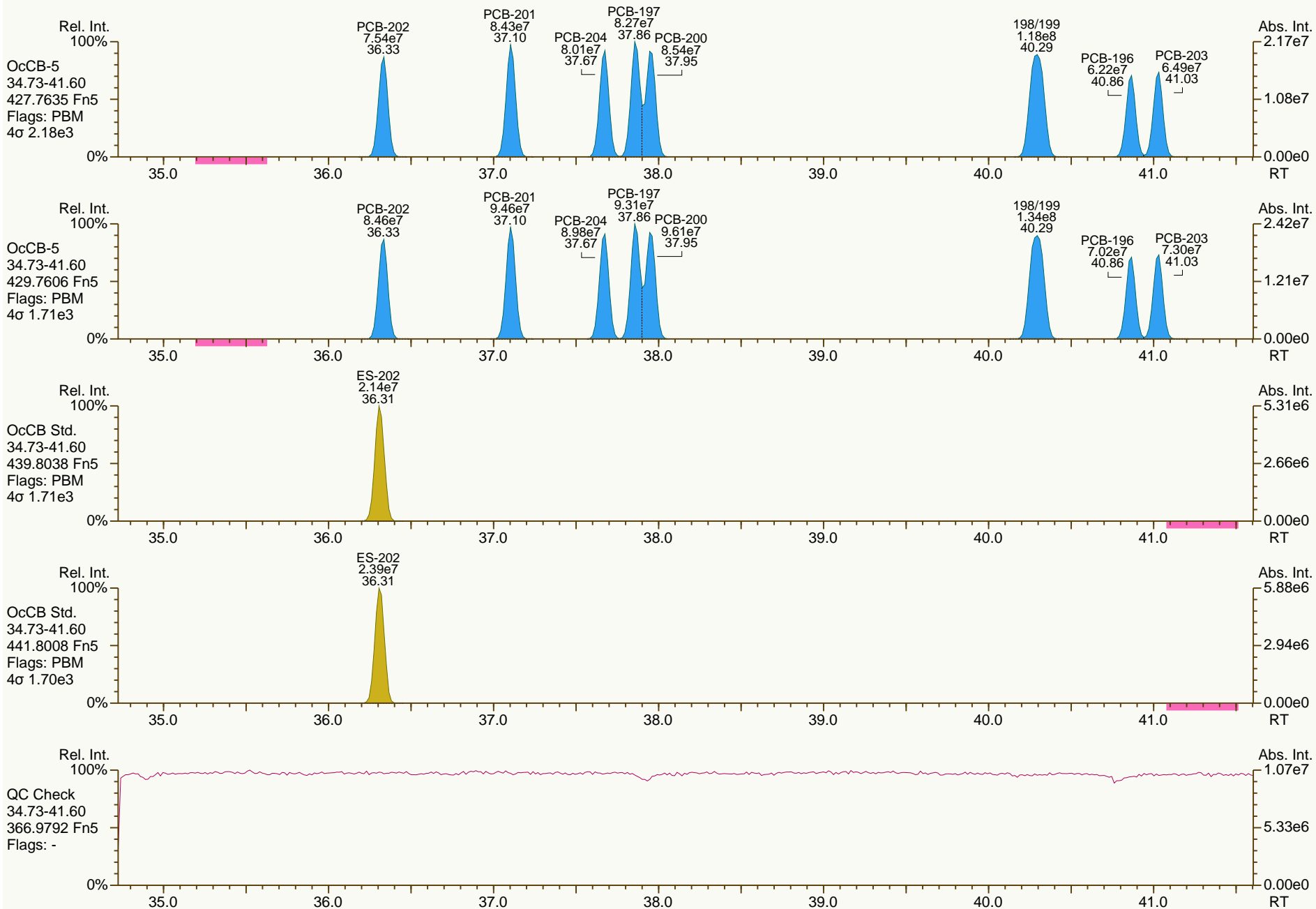
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
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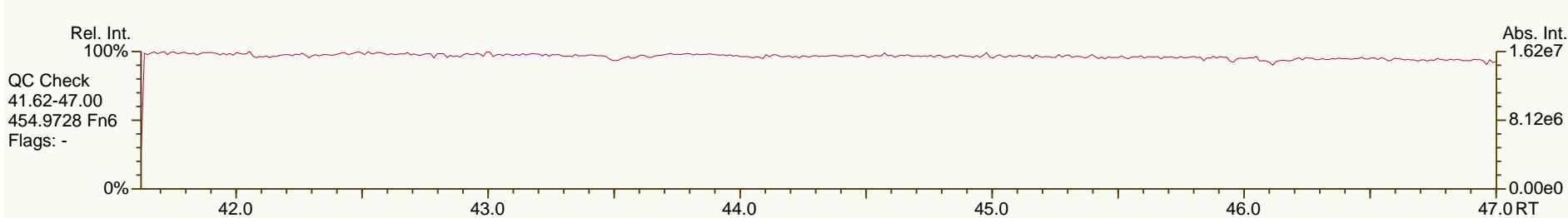
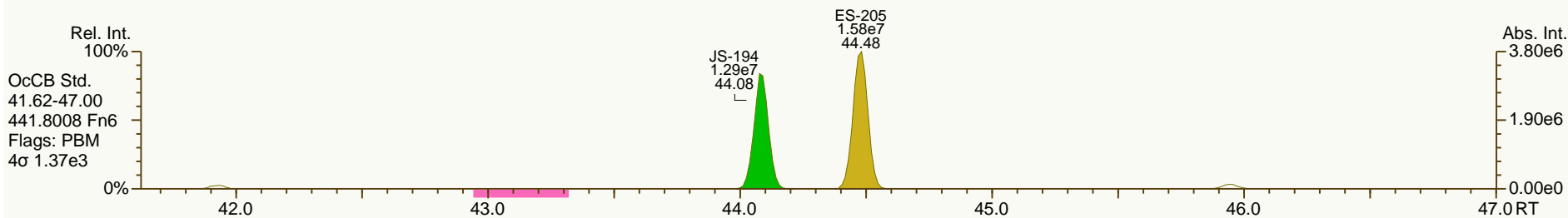
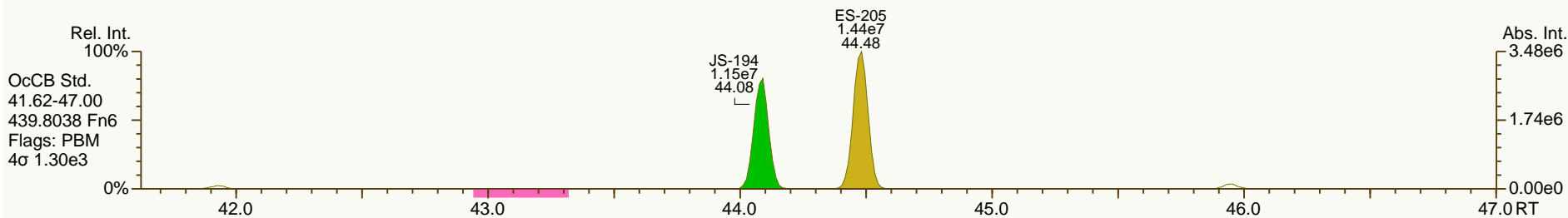
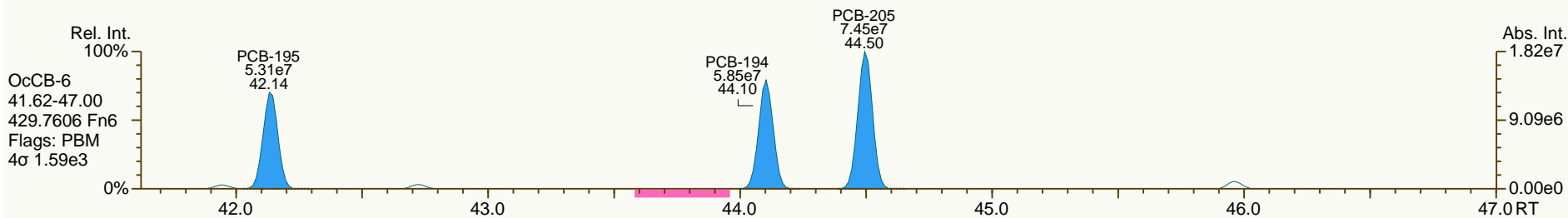
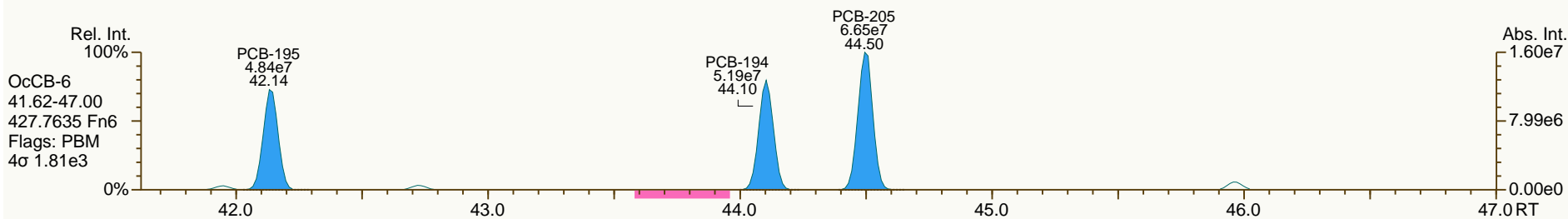
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

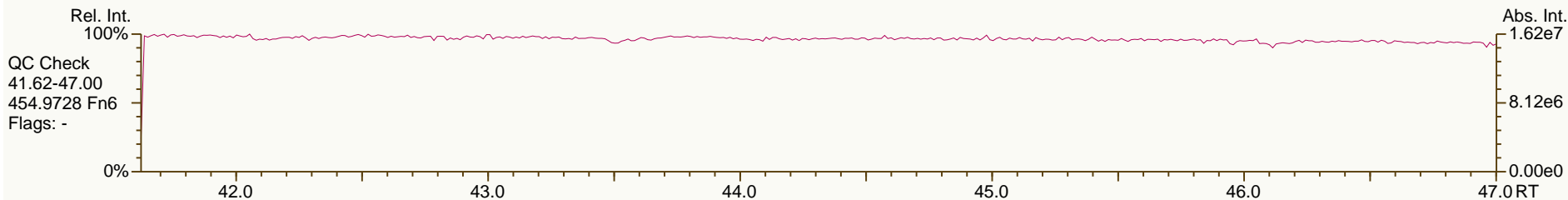
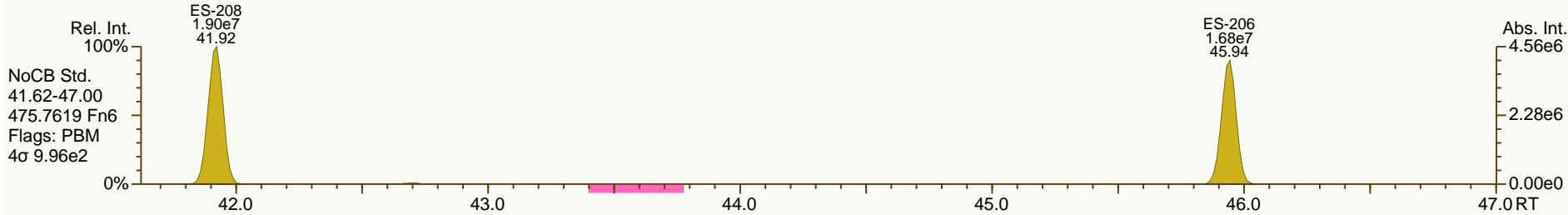
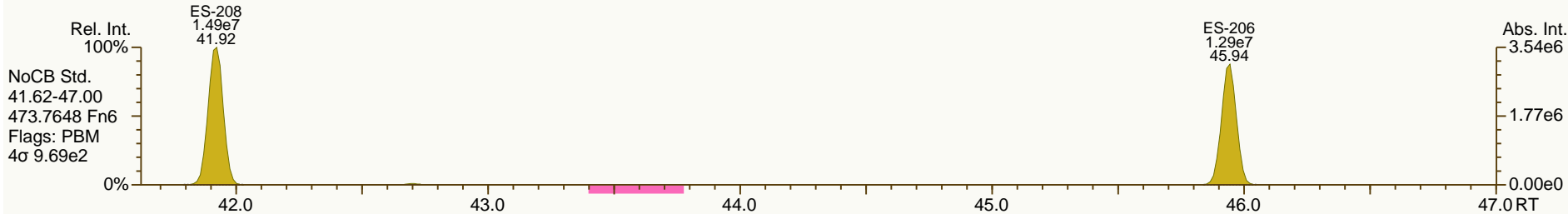
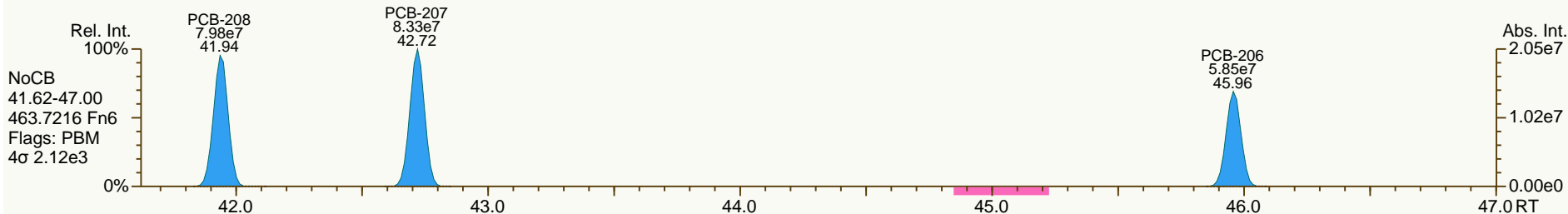
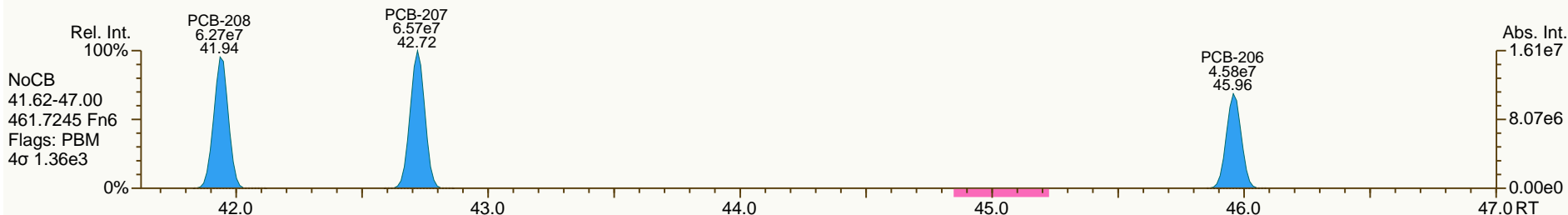
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

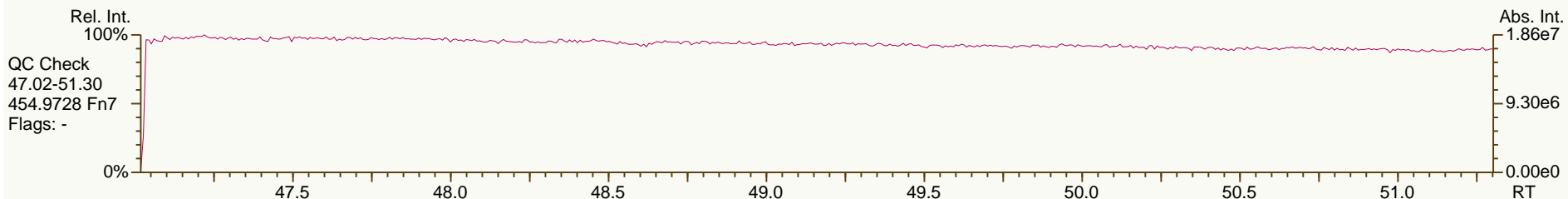
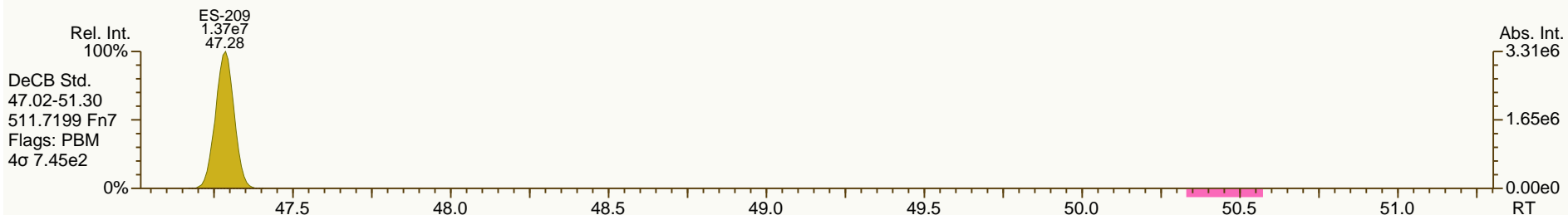
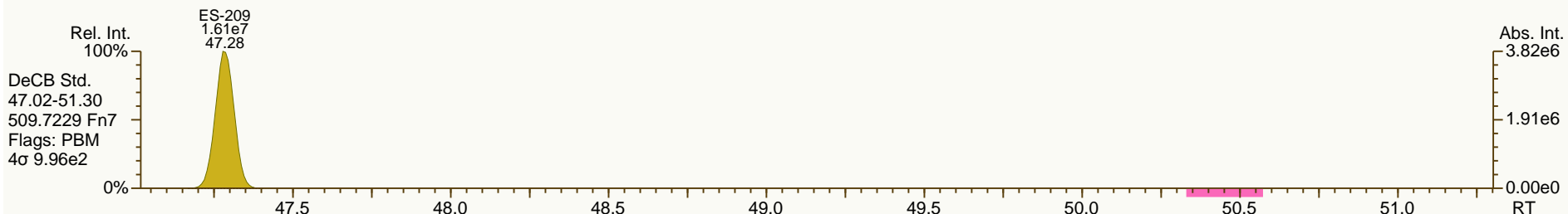
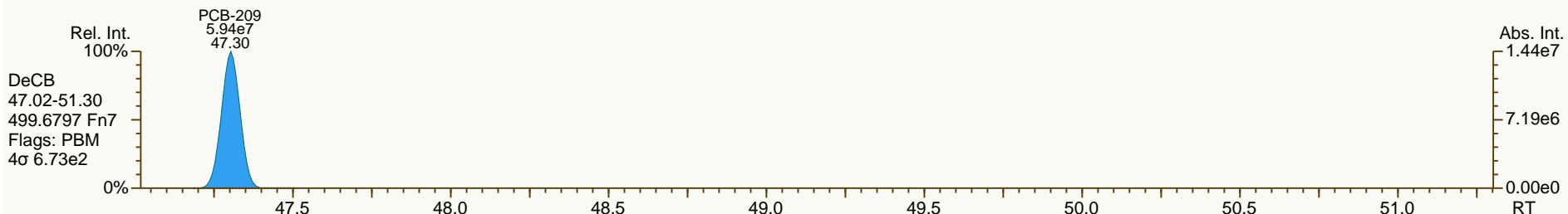
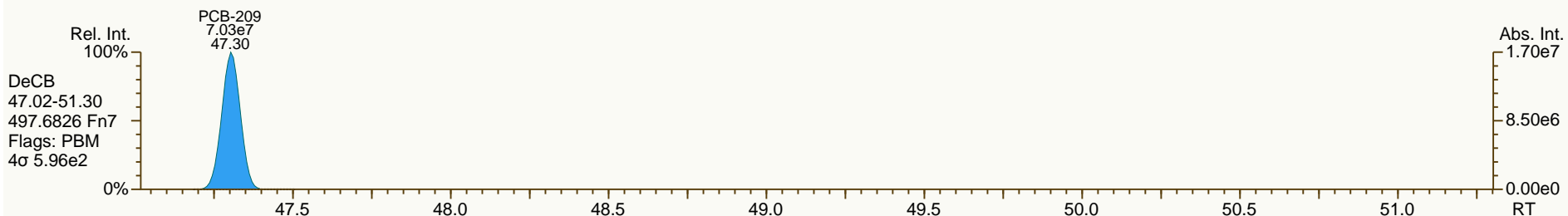
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

Acq: 11-Sep-2013 17:50:46
 User: CTW Datafile: 130911S07



PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:37		
Lab ID:	CS5_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 18:46						
Datafile:	130911S08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	29.42	1.66E+09	0.80 Y	1.51	1.57	3.6%	
PCB-81 344'5'-TeCB	28.94	1.61E+09	0.80 Y	1.27	1.33	4.7%	
PCB-105 233'44'-PeCB	32.37	1.02E+09	0.62 Y	1.00	1.05	5.9%	
PCB-114 2344'5'-PeCB	31.83	1.09E+09	0.63 Y	1.06	1.11	4.8%	
PCB-118 23'44'5'-PeCB	31.38	1.04E+09	0.63 Y	1.01	1.08	7.2%	
PCB-123 23'44'5'-PeCB	31.11	1.03E+09	0.63 Y	1.06	1.07	0.7%	
PCB-126 33'44'5'-PeCB	34.97	1.40E+09	0.63 Y	1.26	1.31	3.7%	
PCB-156/157 ...-HxCB	37.50	1.97E+09	1.24 Y	1.06	1.13	6.7%	
PCB-167 23'44'55'-HxCB	36.54	1.03E+09	1.23 Y	1.12	1.15	2.6%	
PCB-169 33'44'55'-HxCB	40.22	9.78E+08	1.27 Y	1.09	1.13	3.7%	
PCB-189 233'44'55'-HpCB	42.34	1.21E+09	1.04 Y	1.15	1.19	3.5%	
PCB-209 DeCB	47.31	6.96E+08	1.17 Y	1.03	1.06	2.8%	
ES PCB-1	9.94	8.76E+07	3.16 Y	1.04	1.04	-0.1%	
ES PCB-3	11.87	8.51E+07	3.22 Y	0.99	1.01	2.1%	
ES PCB-4	12.09	5.86E+07	1.57 Y	0.71	0.70	-2.1%	
ES PCB-15	17.21	9.54E+07	1.62 Y	1.09	1.13	4.0%	
ES PCB-19	14.80	4.85E+07	1.05 Y	0.59	0.58	-2.5%	
ES PCB-37	23.21	6.68E+07	1.08 Y	1.32	1.38	4.8%	
ES PCB-54	17.46	6.39E+07	0.78 Y	1.35	1.32	-2.3%	
ES PCB-77	29.40	5.30E+07	0.80 Y	1.07	1.10	2.6%	
ES PCB-81	28.93	6.06E+07	0.80 Y	1.19	1.25	5.1%	
ES PCB-104	22.16	5.78E+07	1.55 Y	1.62	1.52	-6.3%	
ES PCB-105	32.34	4.84E+07	1.55 Y	1.30	1.27	-2.3%	
ES PCB-114	31.80	4.88E+07	1.57 Y	1.32	1.28	-2.8%	
ES PCB-118	31.36	4.79E+07	1.58 Y	1.30	1.26	-3.5%	
ES PCB-123	31.08	4.80E+07	1.56 Y	1.26	1.26	0.0%	
ES PCB-126	34.95	5.35E+07	1.61 Y	1.41	1.41	0.0%	
ES PCB-153	32.93	4.15E+07	1.25 Y	1.15	1.18	2.7%	
ES PCB-155	26.98	5.41E+07	1.26 Y	1.53	1.54	0.5%	
ES PCB-156/157	37.48	8.66E+07	1.25 Y	1.19	1.23	4.0%	
ES PCB-167	36.51	4.50E+07	1.26 Y	1.22	1.28	4.6%	
ES PCB-169	40.20	4.34E+07	1.26 Y	1.18	1.24	4.6%	
ES PCB-170	39.70	3.30E+07	1.06 Y	1.22	1.24	1.2%	
ES PCB-180	38.65	3.86E+07	1.07 Y	1.41	1.44	2.6%	
ES PCB-188	31.80	5.95E+07	1.09 Y	1.71	1.70	-0.6%	
ES PCB-189	42.32	5.06E+07	1.05 Y	1.84	1.89	3.0%	
ES PCB-202	36.32	4.98E+07	0.88 Y	1.42	1.42	0.2%	
ES PCB-205	44.48	3.38E+07	0.89 Y	1.25	1.26	0.7%	
ES PCB-206	45.94	3.30E+07	0.77 Y	1.24	1.24	-0.1%	
ES PCB-208	41.92	3.77E+07	0.79 Y	1.42	1.41	-0.6%	
ES PCB-209	47.29	3.27E+07	1.16 Y	1.23	1.23	-0.6%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:37		
Lab ID:	CS5_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 18:46						
Datafile:	130911S08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	19.80	7.07E+07	1.07 Y	1.06	1.06	-0.5%	
SS PCB-111	29.44	5.00E+07	1.53 Y	1.06	1.04	-1.8%	
SS PCB-178	34.37	3.46E+07	1.09 Y	0.58	0.58	-0.2%	
CS PCB-28	19.80	7.07E+07	1.07 Y	1.40	1.46	4.3%	
CS PCB-111	29.44	5.00E+07	1.53 Y	1.34	1.31	-1.8%	
CS PCB-178	34.37	3.46E+07	1.09 Y	0.99	0.99	-0.8%	
JS PCB-9	13.82	8.42E+07	1.61 Y	-	-	-	
JS PCB-52	21.36	4.84E+07	0.78 Y	-	-	-	
JS PCB-101	27.17	3.81E+07	1.53 Y	-	-	-	
JS PCB-138	33.98	3.51E+07	1.27 Y	-	-	-	
JS PCB-194	44.09	2.67E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	9.95	2.19E+09	3.19 Y	1.20	1.25	4.5%	
PCB-3 4-MoCB	11.88	2.18E+09	3.21 Y	1.24	1.28	3.7%	
PCB-4 22'-DiCB	12.10	1.18E+09	1.56 Y	0.97	1.01	3.7%	
PCB-15 44'-DiCB	17.22	2.35E+09	1.58 Y	1.23	1.23	0.3%	
PCB-19 22'6'-TrCB	14.82	9.87E+08	1.04 Y	0.97	1.02	5.0%	
PCB-37 344'-TrCB	23.23	1.82E+09	1.08 Y	1.28	1.36	6.1%	
PCB-54 22'66'-TeCB	17.48	1.35E+09	0.77 Y	1.00	1.05	5.3%	
PCB-104 22'466'-PeCB	22.18	1.28E+09	0.63 Y	1.06	1.10	4.6%	
PCB-153/168 ...-HxCB	32.98	2.17E+09	1.26 Y	1.26	1.31	4.1%	
PCB-155 22'44'66'-HxCB	27.00	1.28E+09	1.26 Y	1.12	1.18	5.4%	
PCB-170 22'33'44'5'-HpCB	39.72	6.99E+08	1.04 Y	1.01	1.06	5.0%	
PCB-180/193 ...-HpCB	38.64	1.77E+09	1.03 Y	1.11	1.15	3.2%	
PCB-188 22'34'566'-HpCB	31.82	1.20E+09	1.04 Y	0.97	1.01	4.0%	
PCB-202 22'33'55'66'-OcCB	36.34	8.76E+08	0.89 Y	0.83	0.88	5.7%	
PCB-205 233'44'55'6'-OcCB	44.50	7.70E+08	0.91 Y	1.08	1.14	5.6%	
PCB-208 22'33'455'66'-NoCB	41.94	7.76E+08	0.78 Y	0.99	1.03	3.6%	
PCB-206 22'33'44'55'6'-NoCB	45.96	5.71E+08	0.76 Y	0.83	0.86	4.2%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:37			
Lab ID:	CS5_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 18:46						
Datafile:	130911S08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	9.95	2.19E+09	3.19 Y	1.20	1.25	4.5%	
PCB-2 3-MoCB	11.72	2.20E+09	3.22 Y	1.25	1.29	3.9%	
PCB-3 4-MoCB	11.88	2.18E+09	3.21 Y	1.24	1.28	3.7%	
PCB-4 22'-DiCB	12.10	1.18E+09	1.56 Y	0.97	1.01	3.7%	
PCB-10 26'-DiCB	12.25	1.83E+09	1.56 Y	1.51	1.56	3.4%	
PCB-9 25'-DiCB	13.84	2.01E+09	1.60 Y	1.06	1.05	-0.7%	
PCB-7 24'-DiCB	13.98	2.28E+09	1.60 Y	1.23	1.20	-2.9%	
PCB-6 23'-DiCB	14.19	2.12E+09	1.61 Y	1.14	1.11	-2.2%	
PCB-5 23'-DiCB	14.45	2.16E+09	1.58 Y	1.15	1.13	-1.2%	
PCB-8 24'-DiCB	14.56	2.22E+09	1.60 Y	1.18	1.16	-1.0%	
PCB-14 35'-DiCB	15.97	2.56E+09	1.57 Y	1.31	1.34	2.1%	
PCB-11 33'-DiCB	16.69	2.22E+09	1.59 Y	1.17	1.16	-0.6%	
PCB-13/12 34'/34'-DiCB	16.96	4.51E+09	1.59 Y	1.17	1.18	1.4%	
PCB-15 44'-DiCB	17.22	2.35E+09	1.58 Y	1.23	1.23	0.3%	
PCB-19 22'6'-TrCB	14.82	9.87E+08	1.04 Y	0.97	1.02	5.0%	
PCB-30/18 246'/22'5'-TrCB	16.42	2.63E+09	1.04 Y	1.23	1.36	9.9%	
PCB-17 22'4'-TrCB	16.79	1.12E+09	1.04 Y	1.06	1.16	9.5%	
PCB-27 23'6'-TrCB	16.98	1.54E+09	1.04 Y	1.44	1.59	10.4%	
PCB-24 236'-TrCB	17.09	1.46E+09	1.03 Y	1.37	1.50	9.8%	
PCB-16 22'3'-TrCB	17.18	8.39E+08	1.04 Y	0.80	0.86	7.5%	
PCB-32 24'6'-TrCB	17.63	1.59E+09	1.03 Y	1.59	1.64	2.9%	
PCB-34 23'5'-TrCB	18.71	1.78E+09	1.08 Y	1.26	1.33	5.2%	
PCB-23 235'-TrCB	18.84	1.82E+09	1.06 Y	1.31	1.36	4.0%	
PCB-26/29 23'5'/245'-TrCB	19.11	3.78E+09	1.07 Y	1.33	1.41	6.0%	
PCB-25 23'4'-TrCB	19.30	1.87E+09	1.08 Y	1.33	1.40	5.3%	
PCB-31 24'5'-TrCB	19.57	1.91E+09	1.08 Y	1.39	1.43	3.0%	
PCB-28/20 244'/233'-TrCB	19.83	3.65E+09	1.05 Y	1.30	1.37	5.2%	
PCB-21/33 234'/23'4'-TrCB	20.00	3.78E+09	1.06 Y	1.34	1.41	5.2%	
PCB-22 234'-TrCB	20.36	1.70E+09	1.07 Y	1.22	1.27	4.7%	
PCB-36 33'5'-TrCB	21.69	1.90E+09	1.08 Y	1.35	1.42	5.5%	
PCB-39 34'5'-TrCB	22.00	1.98E+09	1.07 Y	1.40	1.48	6.1%	
PCB-38 345'-TrCB	22.49	1.73E+09	1.08 Y	1.25	1.30	3.7%	
PCB-35 33'4'-TrCB	22.88	1.73E+09	1.08 Y	1.23	1.29	4.9%	
PCB-37 344'-TrCB	23.23	1.82E+09	1.08 Y	1.28	1.36	6.1%	
PCB-54 22'66'-TeCB	17.48	1.35E+09	0.77 Y	1.00	1.05	5.3%	
PCB-50/53 22'46'/22'56'-TeCB	19.34	2.06E+09	0.78 Y	0.82	0.85	4.1%	
PCB-45 22'36'-TeCB	19.90	9.27E+08	0.77 Y	0.73	0.77	4.6%	
PCB-51 22'46'-TeCB	19.97	9.97E+08	0.78 Y	0.79	0.82	3.6%	
PCB-46 22'36'-TeCB	20.17	8.12E+08	0.78 Y	0.66	0.67	1.7%	
PCB-52 22'55'-TeCB	21.38	9.62E+08	0.77 Y	0.79	0.79	0.6%	
PCB-73 23'5'6'-TeCB	21.50	1.27E+09	0.77 Y	1.06	1.05	-0.9%	
PCB-43 22'35'-TeCB	21.58	8.61E+08	0.78 Y	0.64	0.71	10.9%	
PCB-69/49 23'46'/22'45'-TeCB	21.77	2.39E+09	0.78 Y	0.95	0.99	3.9%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:37			
Lab ID:	CS5_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 18:46						
Datafile:	130911S08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.04	9.93E+08	0.78 Y	0.79	0.82	4.3%	
PCB-44/47/65 ...-TeCB	22.25	3.15E+09	0.78 Y	0.84	0.87	3.0%	
PCB-59/62/75 ...-TeCB	22.51	3.99E+09	0.77 Y	1.07	1.10	2.2%	
PCB-42 22'34'-TeCB	22.67	8.88E+08	0.78 Y	0.72	0.73	1.8%	
PCB-41 22'34'-TeCB	22.99	8.45E+08	0.77 Y	0.66	0.70	6.3%	
PCB-71/40 23'4'6/22'33'-TeCB	23.09	1.99E+09	0.78 Y	0.79	0.82	3.3%	
PCB-64 23'4'6'-TeCB	23.28	1.43E+09	0.78 Y	1.13	1.18	3.8%	
PCB-72 23'55'-TeCB	23.99	1.66E+09	0.79 Y	1.31	1.37	4.4%	
PCB-68 23'45'-TeCB	24.24	1.80E+09	0.80 Y	1.43	1.48	4.1%	
PCB-57 23'35'-TeCB	24.59	1.58E+09	0.80 Y	1.26	1.31	3.7%	
PCB-58 23'35'-TeCB	24.79	1.63E+09	0.80 Y	1.30	1.34	3.1%	
PCB-67 23'45'-TeCB	24.94	1.72E+09	0.80 Y	1.35	1.42	5.1%	
PCB-63 23'45'-TeCB	25.16	1.80E+09	0.78 Y	1.42	1.49	4.9%	
PCB-61/70/74/76 ...-TeCB	25.44	6.62E+09	0.78 Y	1.32	1.37	3.5%	
PCB-66 23'44'-TeCB	25.72	1.55E+09	0.78 Y	1.26	1.28	1.4%	
PCB-55 23'34'-TeCB	25.86	1.58E+09	0.80 Y	1.24	1.30	5.6%	
PCB-56 23'34'-TeCB	26.28	1.51E+09	0.80 Y	1.22	1.25	2.1%	
PCB-60 23'44'-TeCB	26.46	1.61E+09	0.80 Y	1.29	1.33	3.4%	
PCB-80 33'55'-TeCB	26.82	1.81E+09	0.79 Y	1.42	1.50	5.6%	
PCB-79 33'45'-TeCB	28.11	1.79E+09	0.80 Y	1.47	1.47	0.4%	
PCB-78 33'45'-TeCB	28.57	1.52E+09	0.79 Y	1.23	1.25	1.6%	
PCB-104 22'466'-PeCB	22.18	1.28E+09	0.63 Y	1.06	1.10	4.6%	
PCB-96 22'366'-PeCB	22.50	1.11E+09	0.63 Y	0.90	0.96	6.2%	
PCB-103 22'45'6'-PeCB	24.14	8.48E+08	0.62 Y	0.84	0.88	5.2%	
PCB-94 22'356'-PeCB	24.33	7.28E+08	0.61 Y	0.73	0.76	4.1%	
PCB-95 22'35'6'-PeCB	24.71	7.86E+08	0.63 Y	0.78	0.82	5.1%	
PCB-100/93 22'44'6/22'356'-PeCB	24.89	1.55E+09	0.63 Y	0.77	0.81	4.2%	
PCB-102 22'456'-PeCB	25.01	8.66E+08	0.63 Y	0.83	0.90	8.3%	
PCB-98 22'34'6'-PeCB	25.07	7.42E+08	0.64 Y	0.75	0.77	2.9%	
PCB-88 22'346'-PeCB	25.36	7.47E+08	0.62 Y	0.74	0.78	4.8%	
PCB-91 22'34'6'-PeCB	25.44	8.32E+08	0.62 Y	0.83	0.87	4.5%	
PCB-84 22'33'6'-PeCB	25.62	6.56E+08	0.62 Y	0.66	0.68	3.2%	
PCB-89 22'346'-PeCB	26.02	6.99E+08	0.61 Y	0.69	0.73	4.9%	
PCB-121 23'45'6'-PeCB	26.38	1.07E+09	0.61 Y	1.06	1.12	5.4%	
PCB-92 22'355'-PeCB	26.70	7.42E+08	0.63 Y	0.73	0.77	5.9%	
PCB-113/90/101 ...-PeCB	27.17	2.58E+09	0.63 Y	0.85	0.90	5.1%	
PCB-83 22'33'5'-PeCB	27.59	6.08E+08	0.62 Y	0.65	0.63	-2.0%	
PCB-99 22'44'5'-PeCB	27.68	8.94E+08	0.63 Y	0.84	0.93	10.7%	
PCB-112 233'56'-PeCB	27.78	1.00E+09	0.63 Y	1.00	1.04	4.5%	
PCB-109/119/86/97/125...-PeCB	28.12	5.19E+09	0.62 Y	0.87	0.90	3.5%	
PCB-117 234'56'-PeCB	28.64	8.36E+08	0.62 Y	0.88	0.87	-0.7%	
PCB-116/85 23456/22'344'-PeCB	28.71	1.92E+09	0.63 Y	0.91	1.00	9.2%	
PCB-110 233'4'6'-PeCB	28.86	1.01E+09	0.62 Y	0.99	1.06	6.8%	

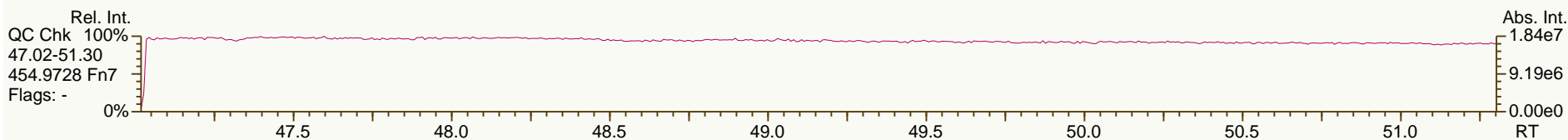
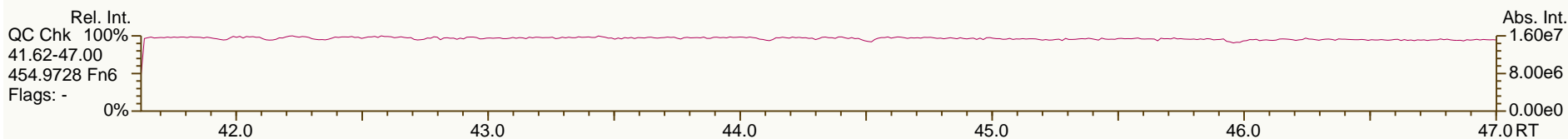
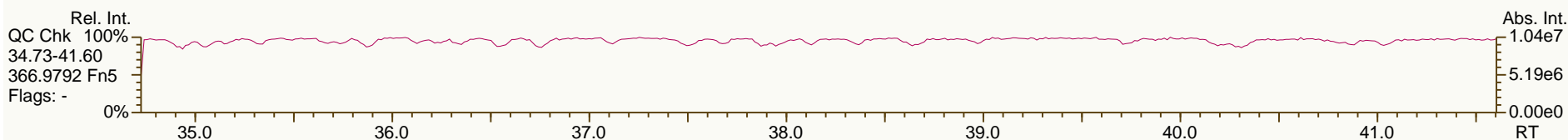
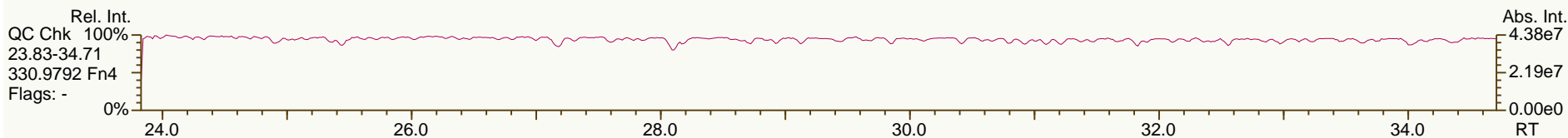
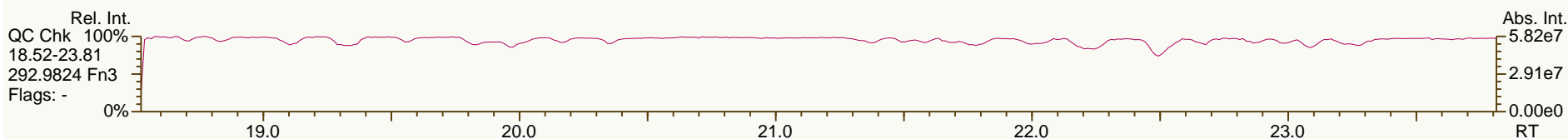
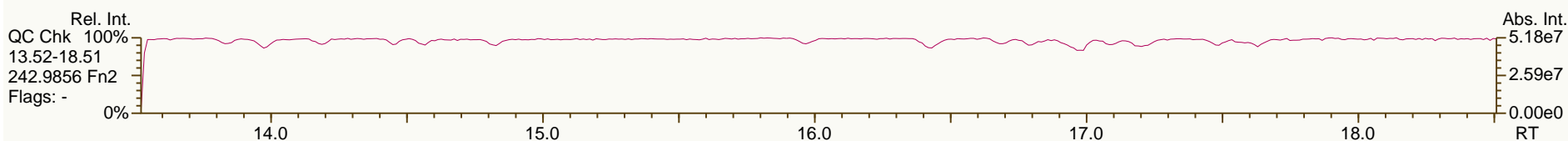
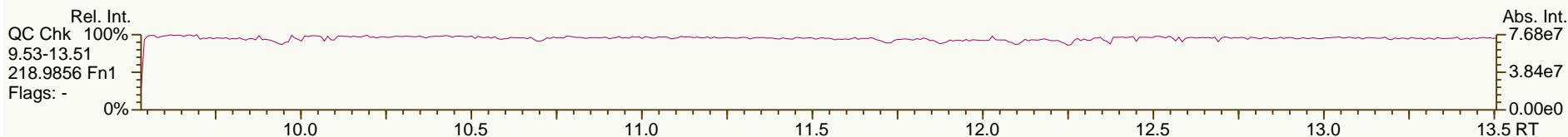
PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:37			
Lab ID:	CS5_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 18:46						
Datafile:	130911S08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6'-PeCB	28.92	1.00E+09	0.62 Y	1.01	1.04	3.1%	
PCB-82 22'33'4'-PeCB	29.12	6.33E+08	0.63 Y	0.62	0.66	5.6%	
PCB-111 233'55'-PeCB	29.46	1.06E+09	0.61 Y	1.07	1.11	3.6%	
PCB-120 23'455'-PeCB	29.85	1.07E+09	0.63 Y	1.07	1.12	4.1%	
PCB-108/124 ...-PeCB	30.80	2.00E+09	0.63 Y	0.98	1.04	5.9%	
PCB-107 233'4'5'-PeCB	31.01	1.12E+09	0.63 Y	1.07	1.17	9.1%	
PCB-106 233'45'-PeCB	31.20	9.98E+08	0.63 Y	1.00	1.04	4.0%	
PCB-122 233'4'5'-PeCB	31.67	9.27E+08	0.62 Y	0.89	0.95	6.6%	
PCB-127 33'455'-PeCB	33.61	1.01E+09	0.63 Y	0.98	1.05	6.4%	
PCB-155 22'44'66'-HxCB	27.00	1.28E+09	1.26 Y	1.12	1.18	5.4%	
PCB-152 22'3566'-HxCB	27.16	1.21E+09	1.26 Y	1.05	1.12	6.2%	
PCB-150 22'34'66'-HxCB	27.30	1.21E+09	1.26 Y	1.07	1.12	4.6%	
PCB-136 22'33'66'-HxCB	27.61	1.15E+09	1.26 Y	0.99	1.06	6.8%	
PCB-145 22'3466'-HxCB	27.86	1.15E+09	1.25 Y	1.00	1.06	6.6%	
PCB-148 22'34'56'-HxCB	29.14	8.83E+08	1.25 Y	1.03	1.06	3.5%	
PCB-151/135 ...-HxCB	29.65	1.70E+09	1.25 Y	1.00	1.02	2.2%	
PCB-154 22'44'56'-HxCB	29.85	9.80E+08	1.26 Y	1.13	1.18	4.8%	
PCB-144 22'345'6'-HxCB	30.11	8.74E+08	1.26 Y	1.03	1.05	2.3%	
PCB-147/149 ...-HxCB	30.41	1.76E+09	1.26 Y	1.03	1.06	3.4%	
PCB-134 22'33'56'-HxCB	30.58	6.86E+08	1.24 Y	0.84	0.83	-1.1%	
PCB-143 22'3456'-HxCB	30.66	8.70E+08	1.26 Y	0.95	1.05	10.5%	
PCB-139/140 ...-HxCB	30.92	1.79E+09	1.25 Y	1.05	1.08	2.8%	
PCB-131 22'33'46'-HxCB	31.09	7.75E+08	1.25 Y	0.87	0.93	6.8%	
PCB-142 22'3456'-HxCB	31.21	7.75E+08	1.25 Y	0.91	0.93	2.7%	
PCB-132 22'33'46'-HxCB	31.47	7.77E+08	1.25 Y	0.92	0.94	1.9%	
PCB-133 22'33'55'-HxCB	31.90	8.20E+08	1.26 Y	0.97	0.99	2.3%	
PCB-165 233'55'6'-HxCB	32.23	1.01E+09	1.25 Y	1.19	1.22	2.1%	
PCB-146 22'34'55'-HxCB	32.44	9.01E+08	1.25 Y	1.08	1.09	0.1%	
PCB-161 233'45'6'-HxCB	32.55	1.14E+09	1.26 Y	1.34	1.37	1.9%	
PCB-153/168 ...-HxCB	32.98	2.17E+09	1.26 Y	1.26	1.31	4.1%	
PCB-141 22'3455'-HxCB	33.12	8.29E+08	1.25 Y	0.98	1.00	1.9%	
PCB-130 22'33'45'-HxCB	33.46	7.37E+08	1.26 Y	0.88	0.89	1.2%	
PCB-137 22'344'5'-HxCB	33.65	9.11E+08	1.25 Y	1.07	1.10	2.3%	
PCB-164 233'4'5'6'-HxCB	33.74	1.12E+09	1.26 Y	1.29	1.35	4.4%	
PCB-163/138/129 ...-HxCB	34.02	2.69E+09	1.26 Y	1.05	1.08	3.1%	
PCB-160 233'456'-HxCB	34.14	1.12E+09	1.26 Y	1.26	1.34	7.1%	
PCB-158 233'44'6'-HxCB	34.33	1.21E+09	1.26 Y	1.40	1.45	3.7%	
PCB-128/166 ...-HxCB	35.05	1.69E+09	1.24 Y	0.89	0.94	5.9%	
PCB-159 233'455'-HxCB	35.89	9.84E+08	1.26 Y	1.04	1.09	5.1%	
PCB-162 233'4'55'-HxCB	36.14	9.81E+08	1.24 Y	1.04	1.09	5.1%	
PCB-188 22'34'566'-HpCB	31.82	1.20E+09	1.04 Y	0.97	1.01	4.0%	
PCB-179 22'33'566'-HpCB	32.10	1.11E+09	1.06 Y	0.89	0.93	4.0%	
PCB-184 22'344'66'-HpCB	32.55	1.08E+09	1.04 Y	0.87	0.91	4.2%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:37			
Lab ID:	CS5_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 18:46						
Datafile:	130911S08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	32.84	1.20E+09	1.03 Y	0.97	1.01	4.6%	
PCB-186 22'34566'-HpCB	33.23	1.14E+09	1.05 Y	0.93	0.96	2.8%	
PCB-178 22'33'55'6'-HpCB	34.39	8.40E+08	1.05 Y	0.67	0.71	4.7%	
PCB-175 22'33'45'6'-HpCB	34.92	7.74E+08	1.04 Y	0.97	1.00	2.9%	
PCB-187 22'34'55'6'-HpCB	35.15	8.09E+08	1.04 Y	1.02	1.05	2.9%	
PCB-182 22'344'56'-HpCB	35.32	8.23E+08	1.04 Y	1.05	1.07	1.4%	
PCB-183 22'344'5'6'-HpCB	35.66	8.42E+08	1.03 Y	1.07	1.09	2.2%	
PCB-185 22'3455'6'-HpCB	35.74	8.02E+08	1.04 Y	0.96	1.04	8.5%	
PCB-174 22'33'456'-HpCB	35.86	6.90E+08	1.03 Y	0.86	0.89	4.4%	
PCB-177 22'33'45'6'-HpCB	36.23	6.87E+08	1.03 Y	0.83	0.89	6.7%	
PCB-181 22'344'56'-HpCB	36.56	8.08E+08	1.04 Y	1.00	1.05	5.1%	
PCB-171/173 ...-HpCB	36.75	1.40E+09	1.04 Y	0.86	0.90	4.6%	
PCB-172 22'33'455'-HpCB	38.12	7.08E+08	1.03 Y	0.87	0.92	5.0%	
PCB-192 233'455'6'-HpCB	38.36	9.43E+08	1.03 Y	1.19	1.22	3.0%	
PCB-180/193 ...-HpCB	38.64	1.77E+09	1.03 Y	1.11	1.15	3.2%	
PCB-191 233'44'5'6'-HpCB	38.96	9.76E+08	1.05 Y	1.23	1.26	2.4%	
PCB-170 22'33'44'5'-HpCB	39.72	6.99E+08	1.04 Y	1.01	1.06	5.0%	
PCB-190 233'44'56'-HpCB	40.17	9.80E+08	1.03 Y	1.42	1.48	4.7%	
PCB-202 22'33'55'66'-OcCB	36.34	8.76E+08	0.89 Y	0.83	0.88	5.7%	
PCB-201 22'33'45'66'-OcCB	37.11	9.77E+08	0.89 Y	0.94	0.98	3.9%	
PCB-204 22'344'566'-OcCB	37.68	9.21E+08	0.89 Y	0.87	0.92	6.1%	
PCB-197 22'33'44'66'-OcCB	37.87	1.02E+09	0.89 Y	0.97	1.02	4.8%	
PCB-200 22'33'4566'-OcCB	37.96	9.18E+08	0.89 Y	0.89	0.92	3.7%	
PCB-198/199 ...-OcCB	40.30	1.38E+09	0.88 Y	0.66	0.69	5.4%	
PCB-196 22'33'44'56'-OcCB	40.87	7.12E+08	0.89 Y	0.70	0.71	1.4%	
PCB-203 22'344'55'6'-OcCB	41.03	7.47E+08	0.89 Y	0.74	0.75	1.6%	
PCB-195 22'33'44'56'-OcCB	42.14	5.53E+08	0.91 Y	0.78	0.82	4.9%	
PCB-194 22'33'44'55'-OcCB	44.11	6.03E+08	0.91 Y	0.85	0.89	5.4%	
PCB-205 233'44'55'6'-OcCB	44.50	7.70E+08	0.91 Y	1.08	1.14	5.6%	
PCB-208 22'33'455'66'-NoCB	41.94	7.76E+08	0.78 Y	0.99	1.03	3.6%	
PCB-207 22'33'44'566'-NoCB	42.72	8.10E+08	0.78 Y	1.03	1.07	4.8%	
PCB-206 22'33'44'55'6'-NoCB	45.96	5.71E+08	0.76 Y	0.83	0.86	4.2%	

SGS-AP ID: CS5_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 55

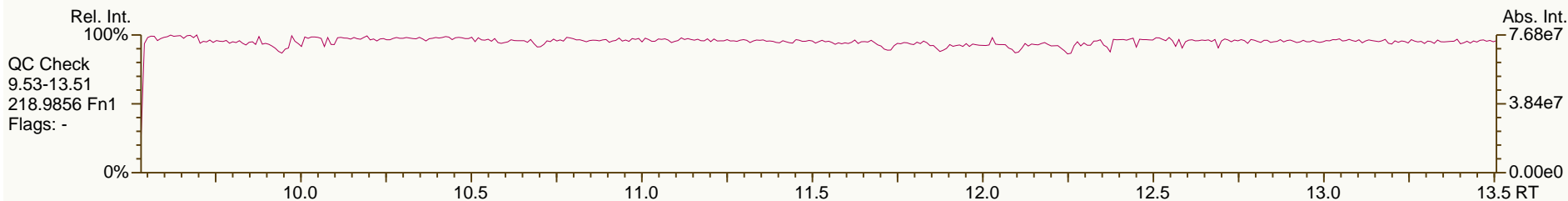
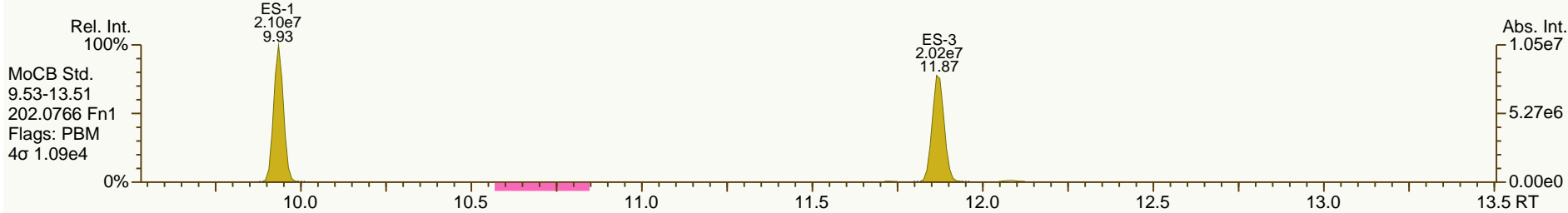
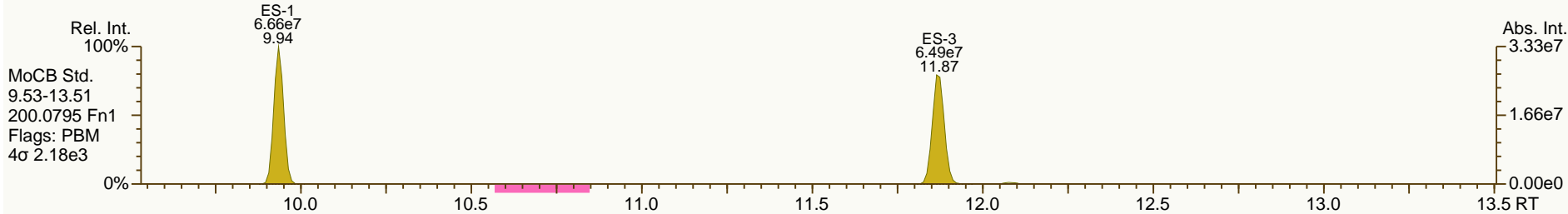
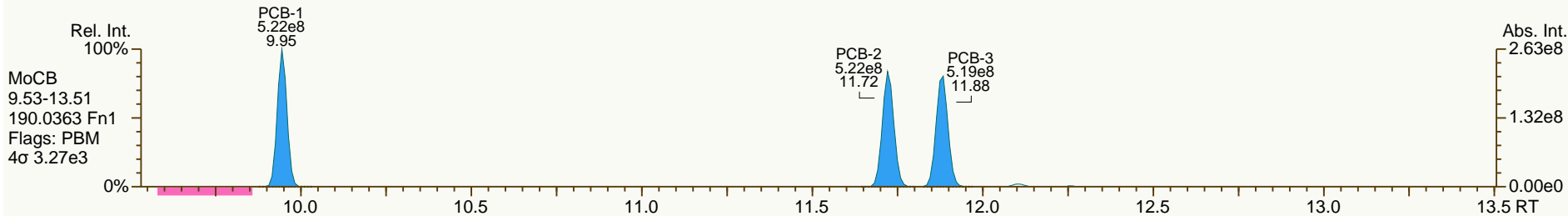
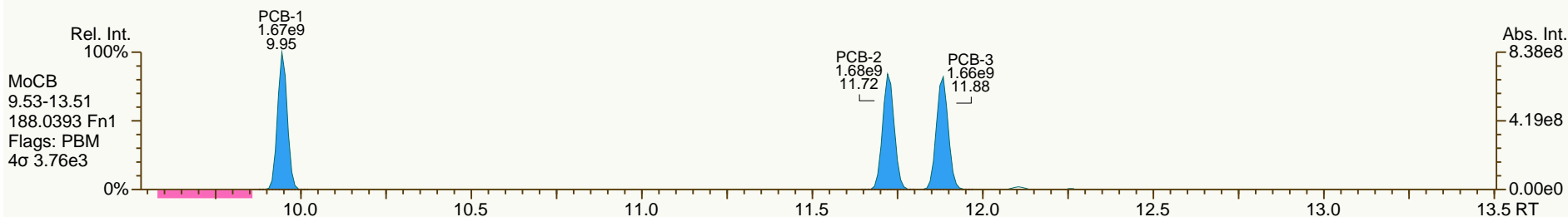
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SGS-AP ID: CS5_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 55

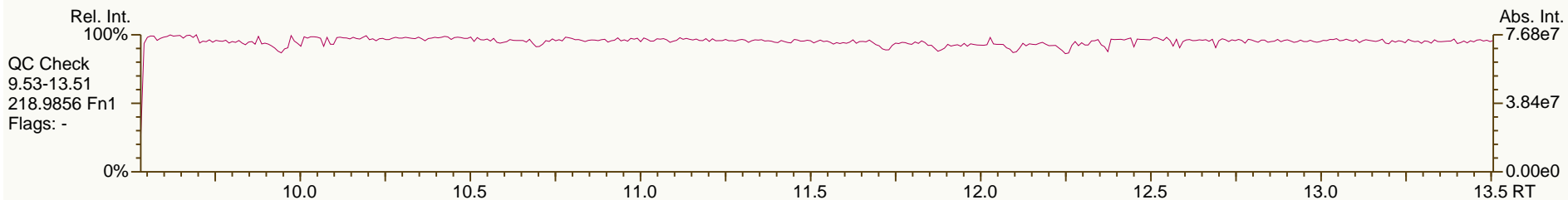
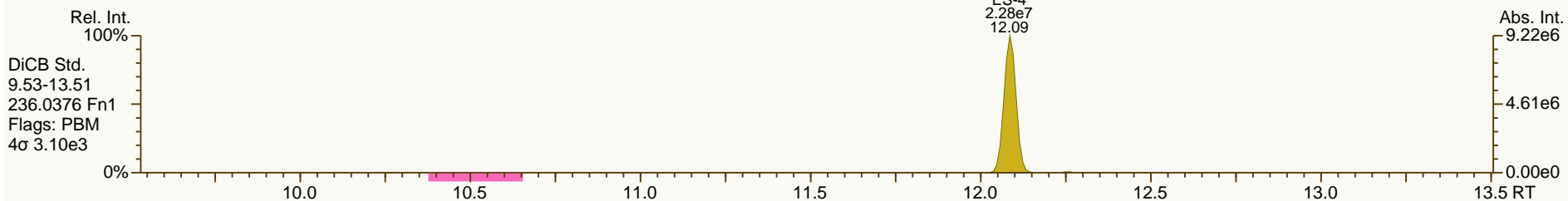
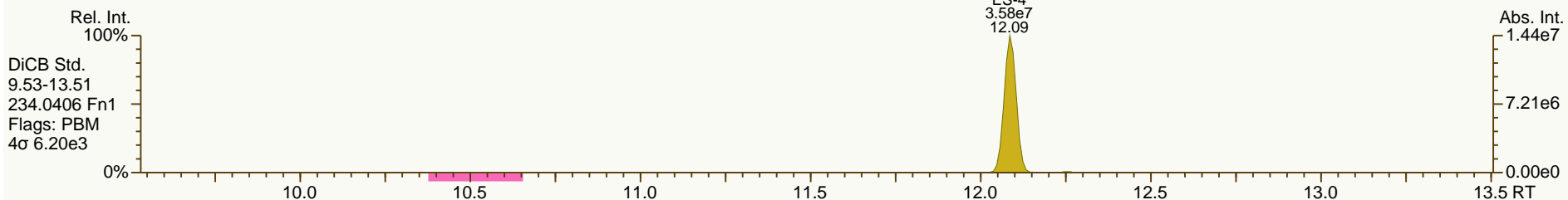
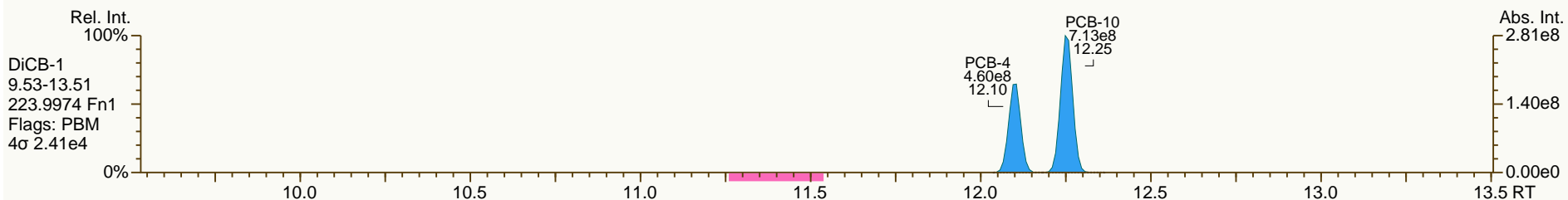
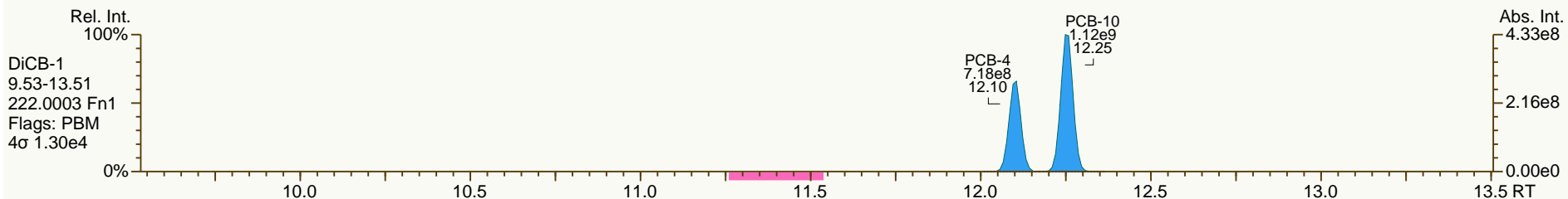
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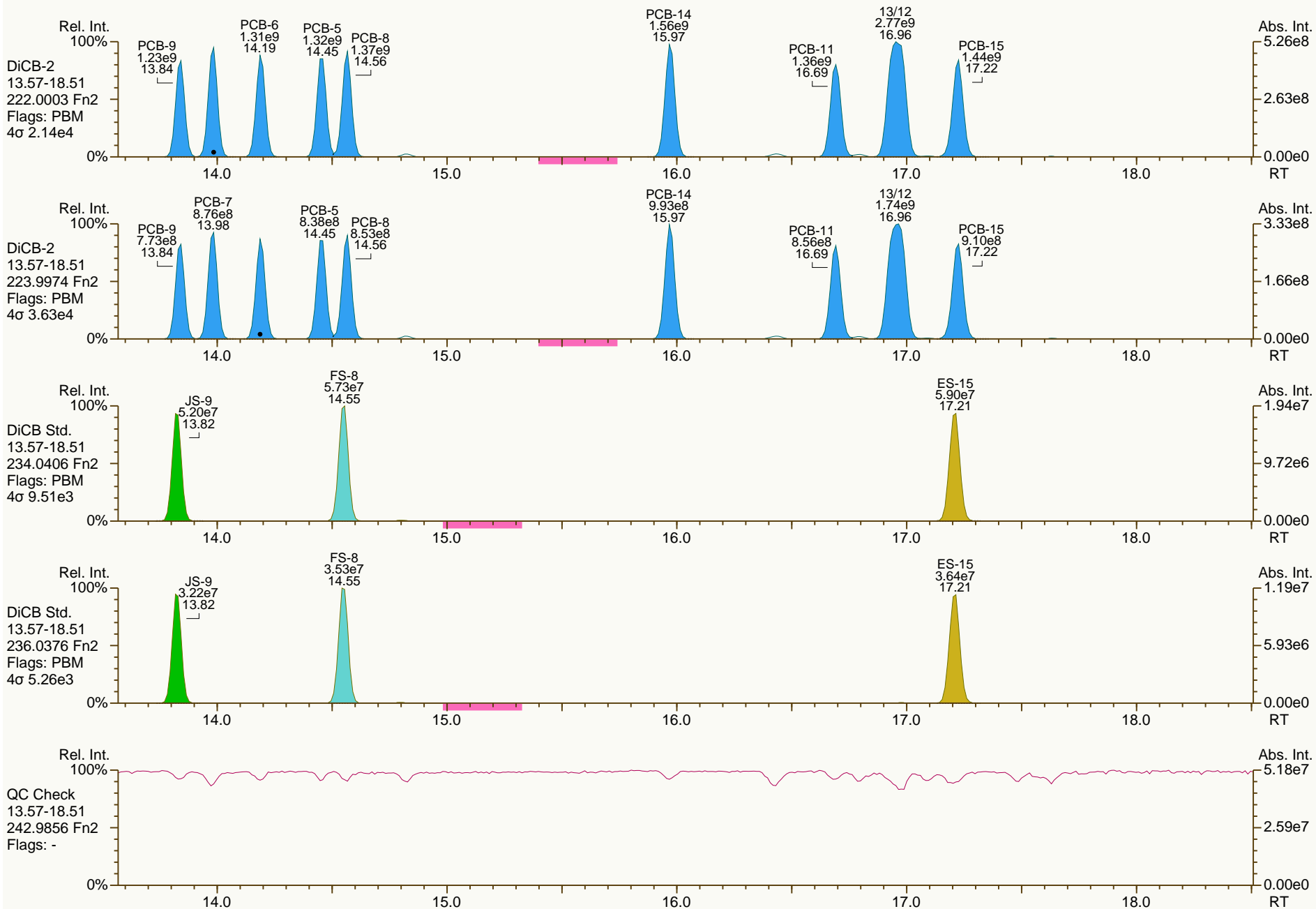
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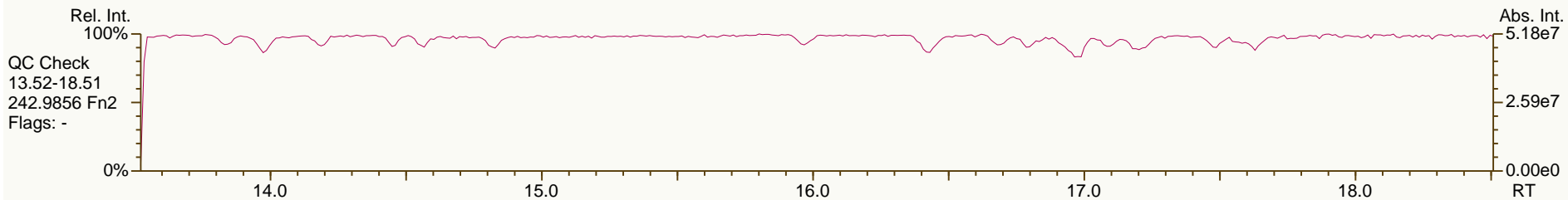
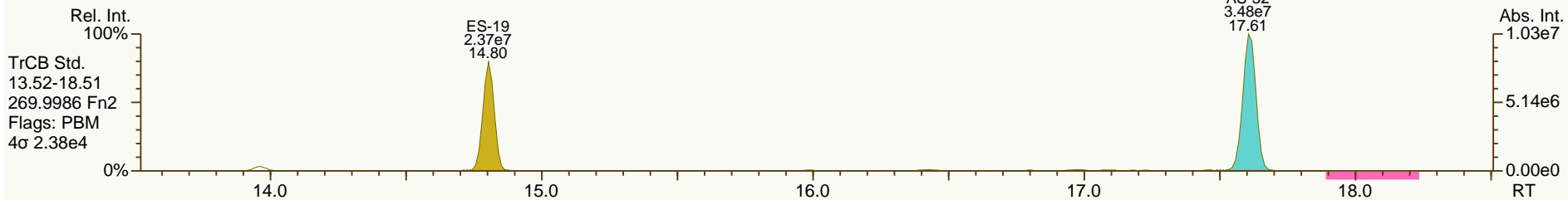
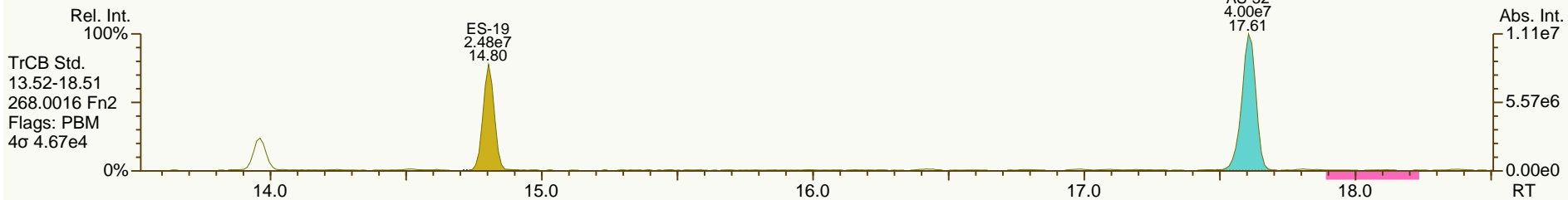
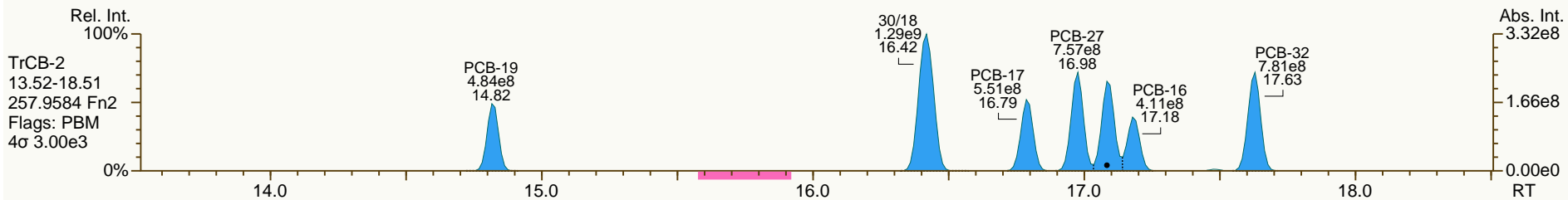
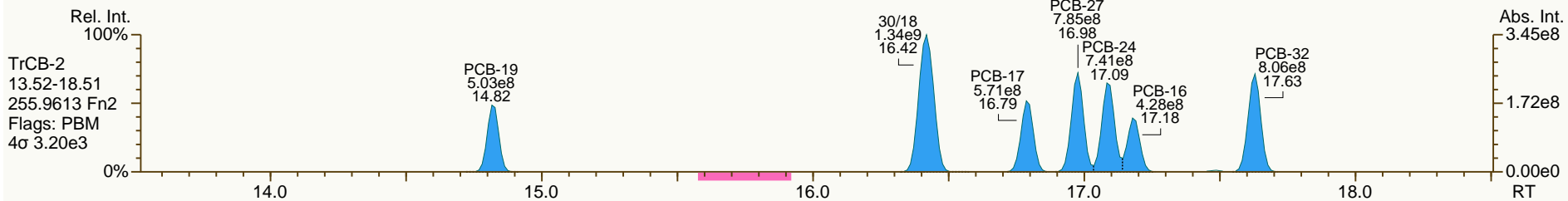
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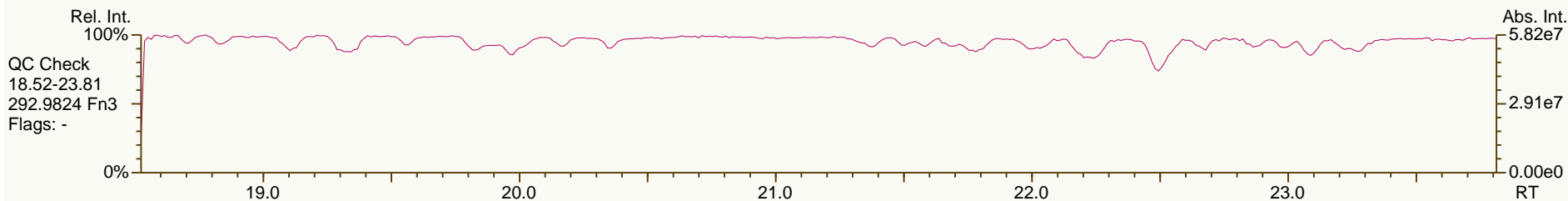
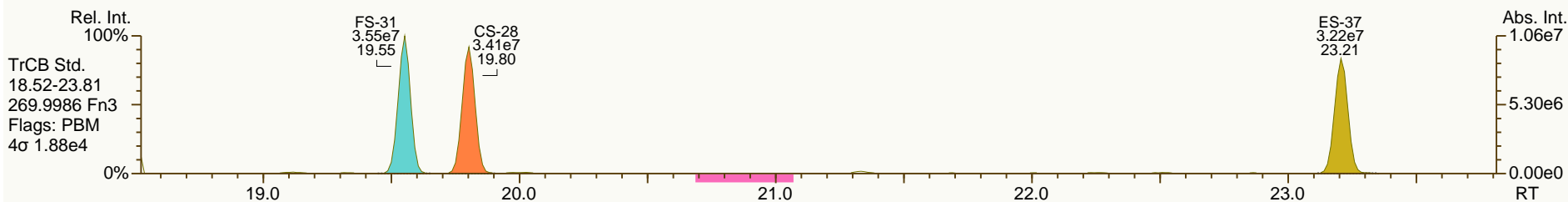
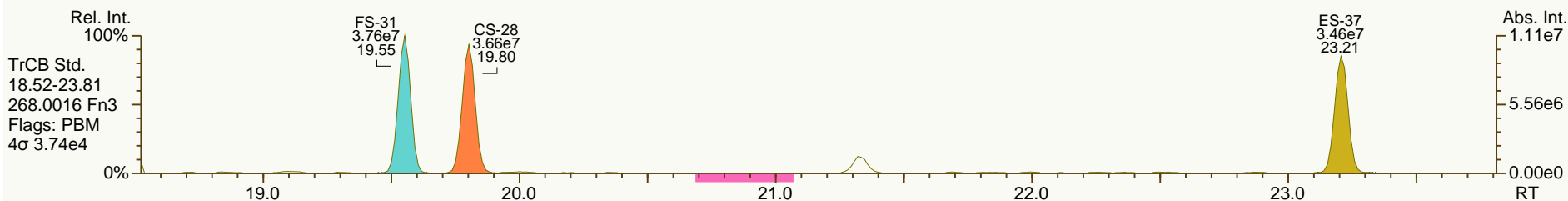
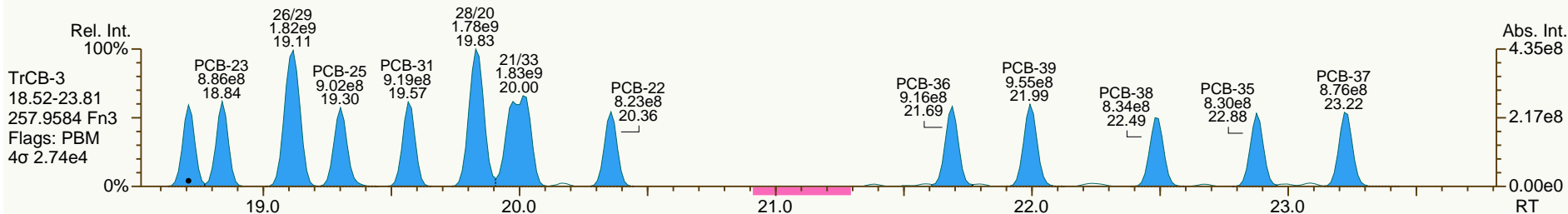
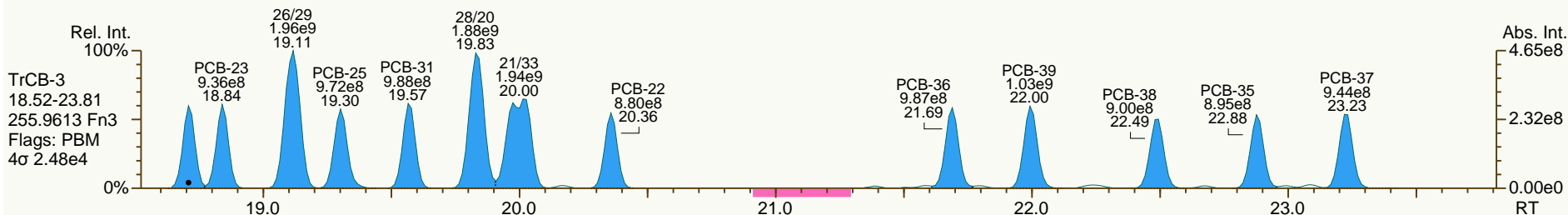
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Sample ID: SIL 13-40-1
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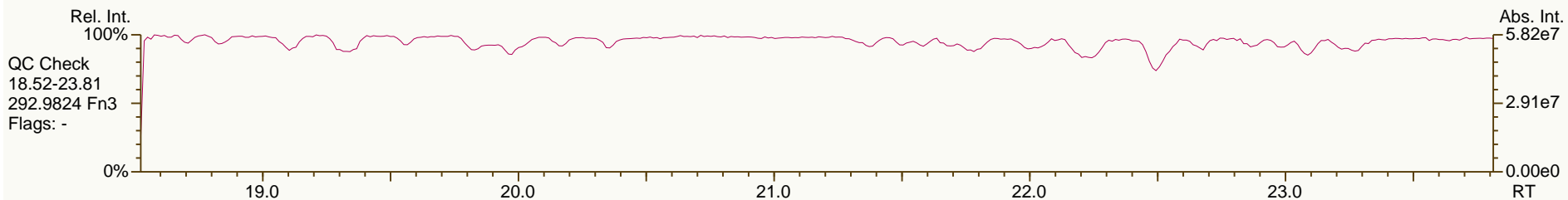
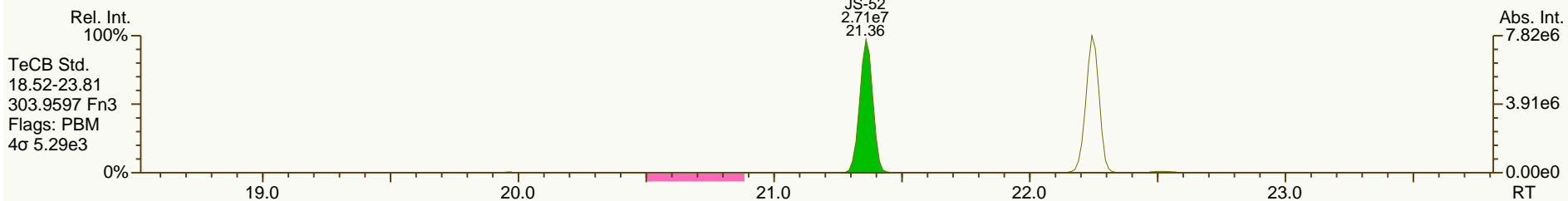
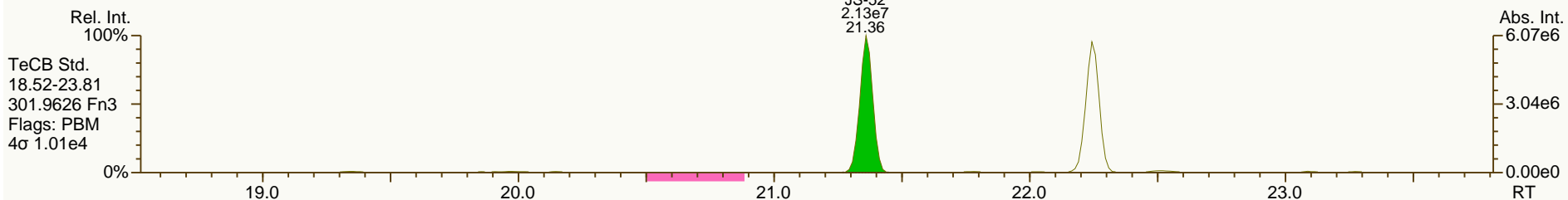
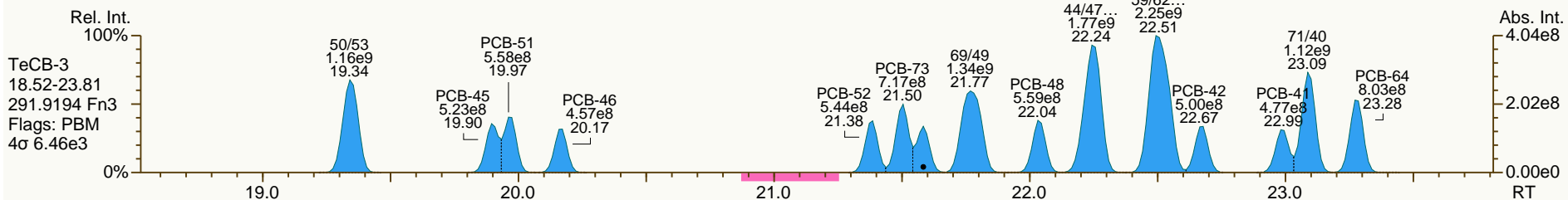
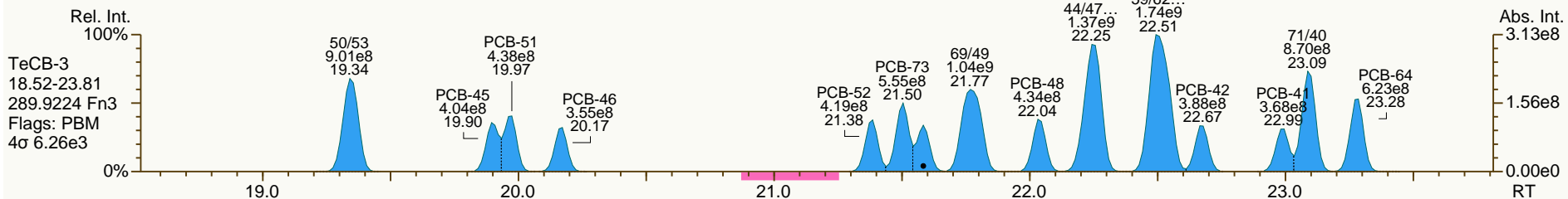
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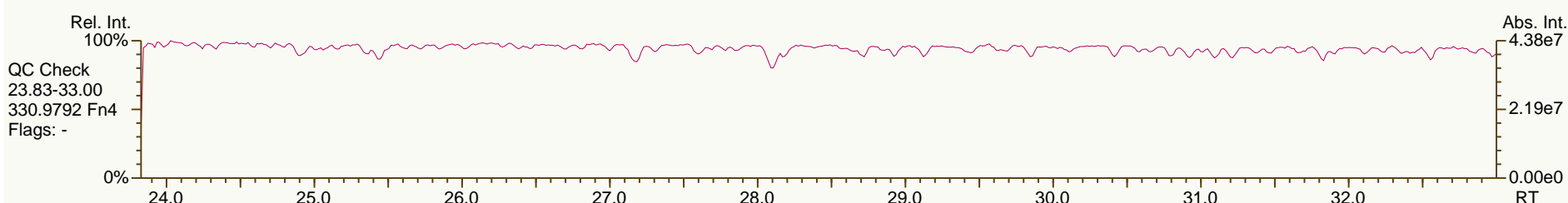
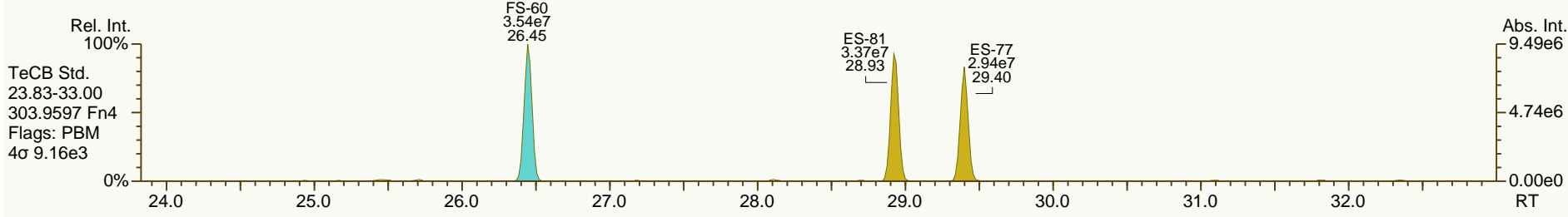
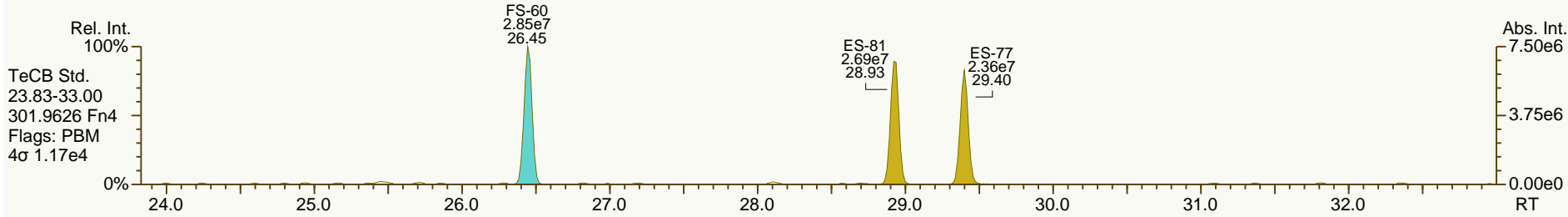
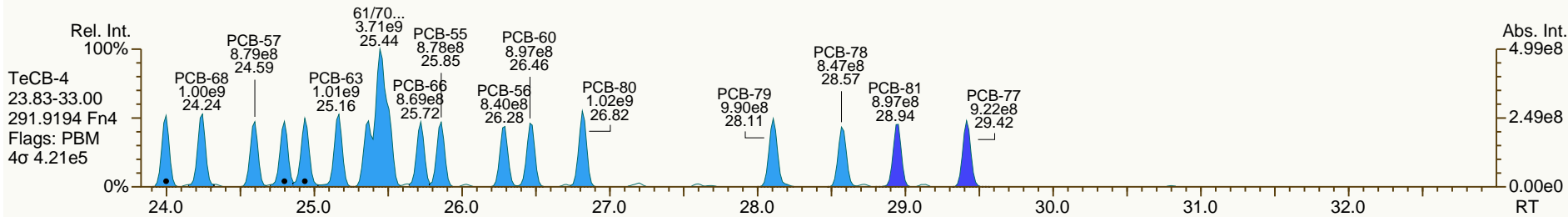
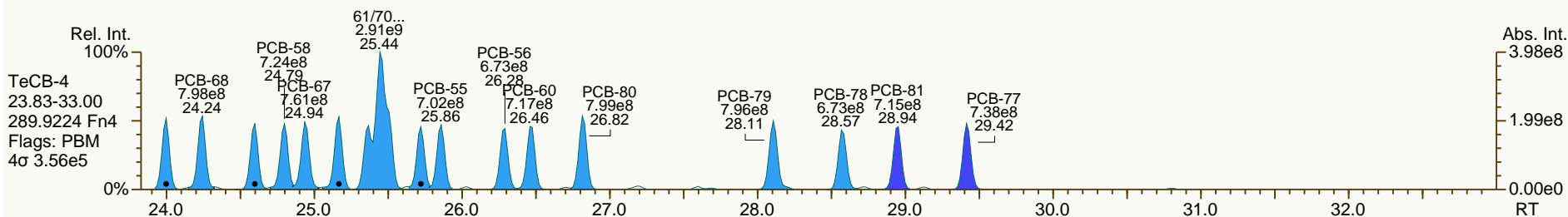
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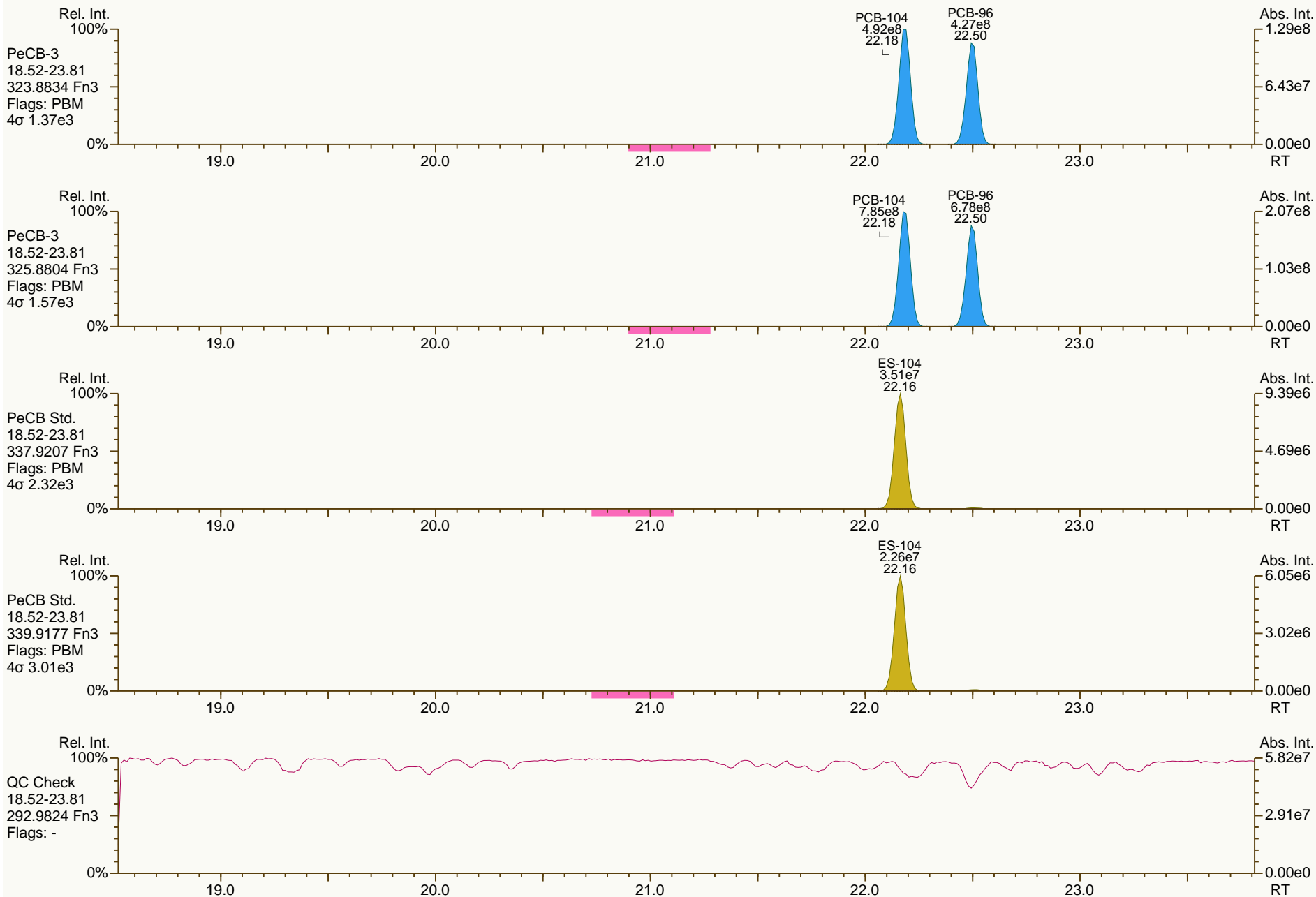
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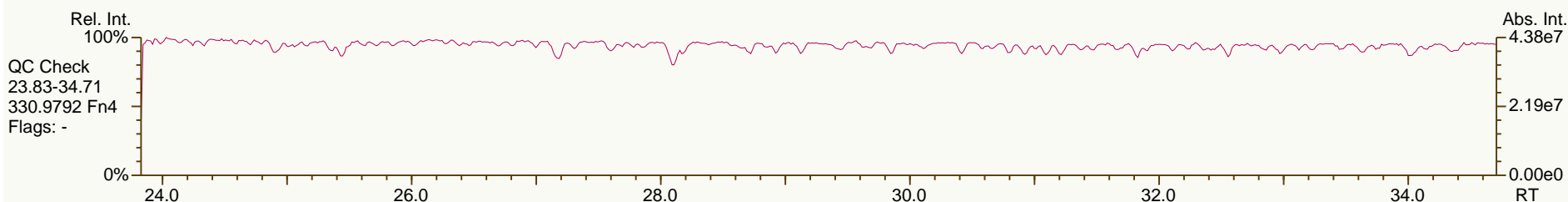
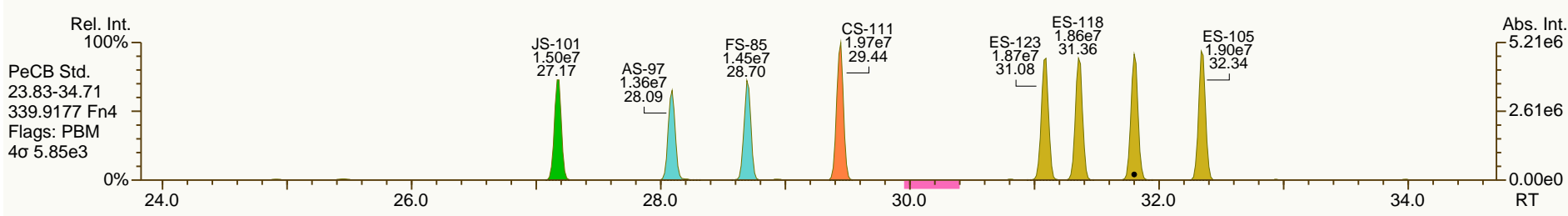
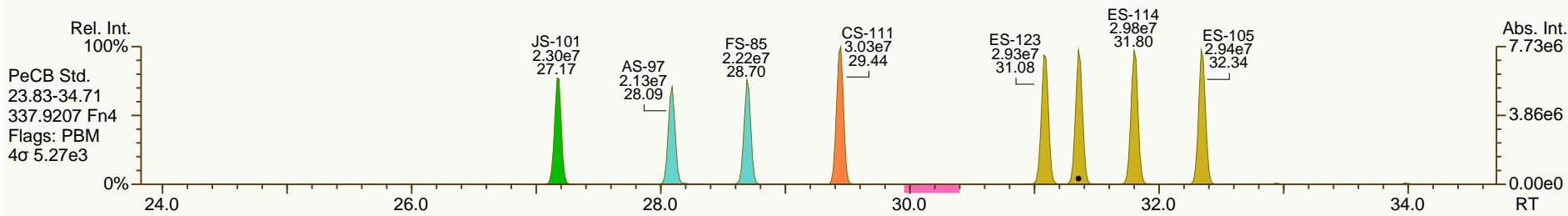
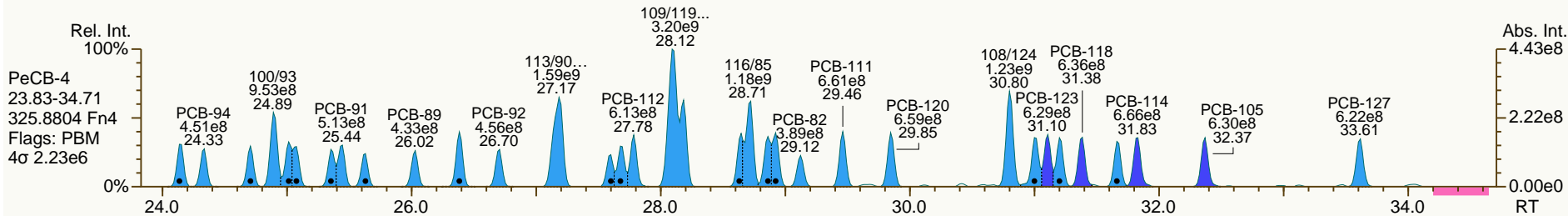
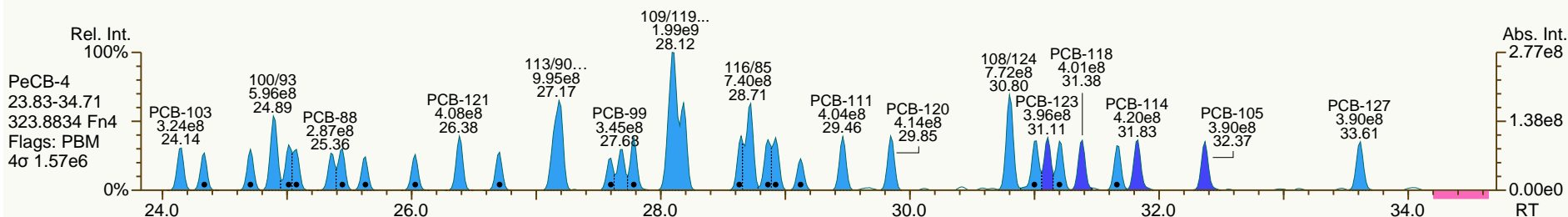
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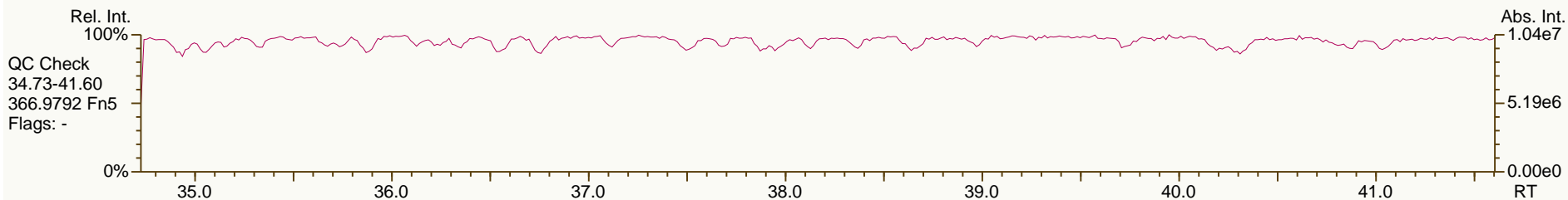
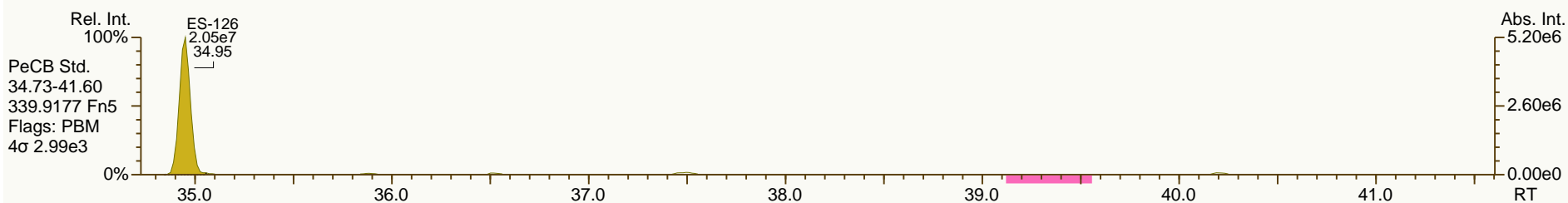
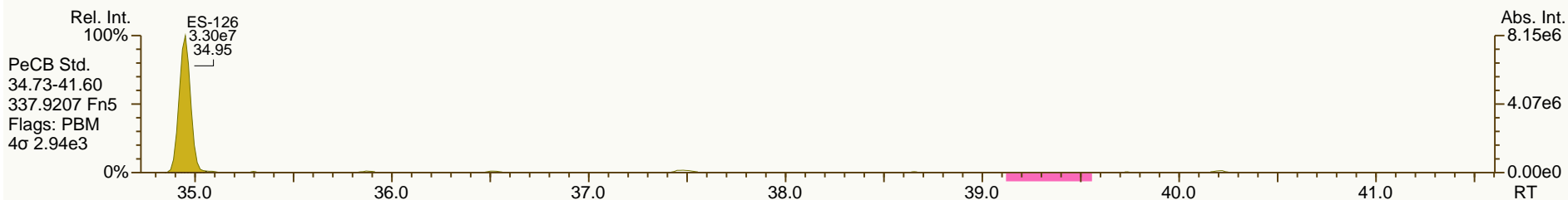
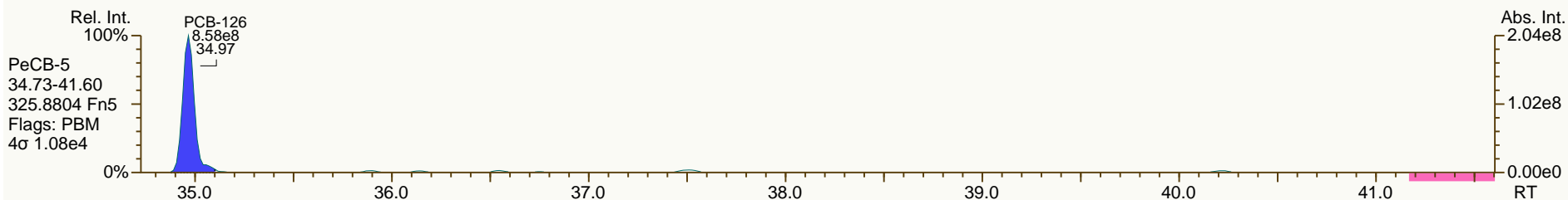
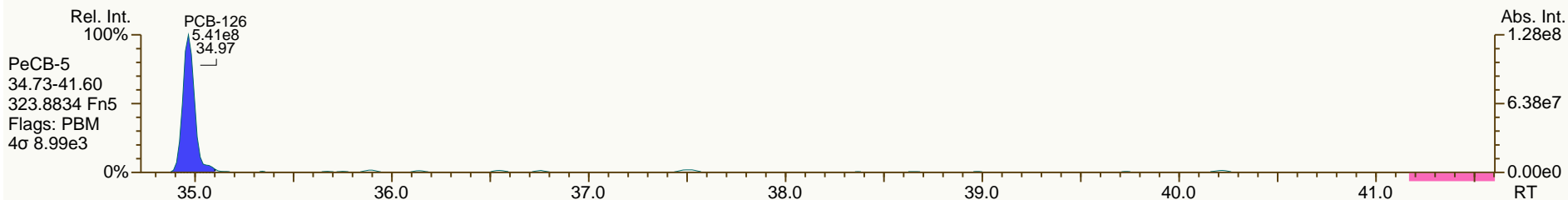
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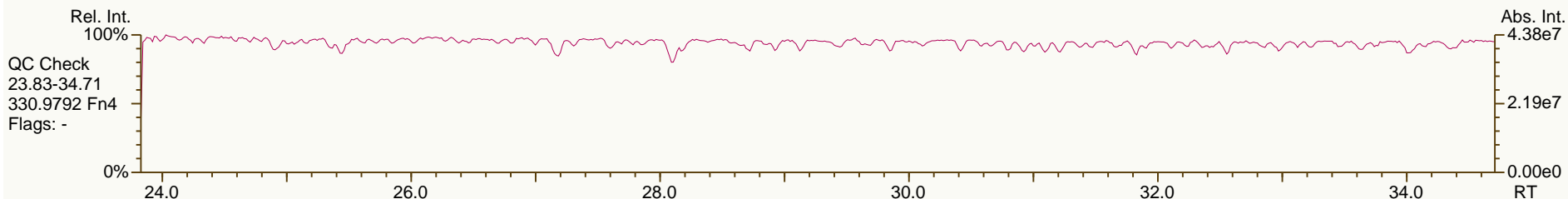
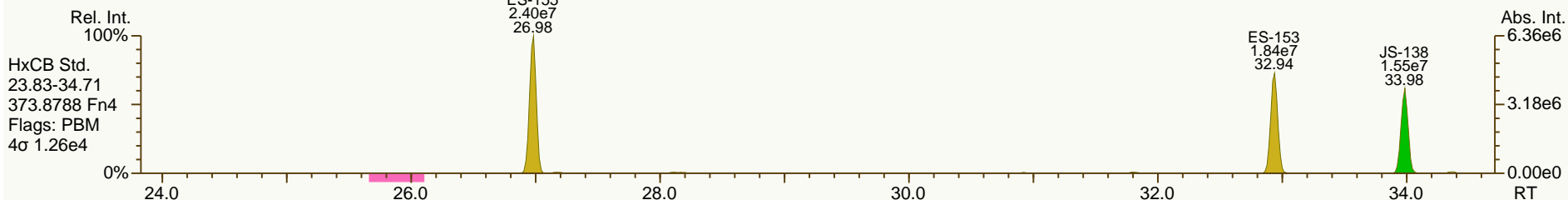
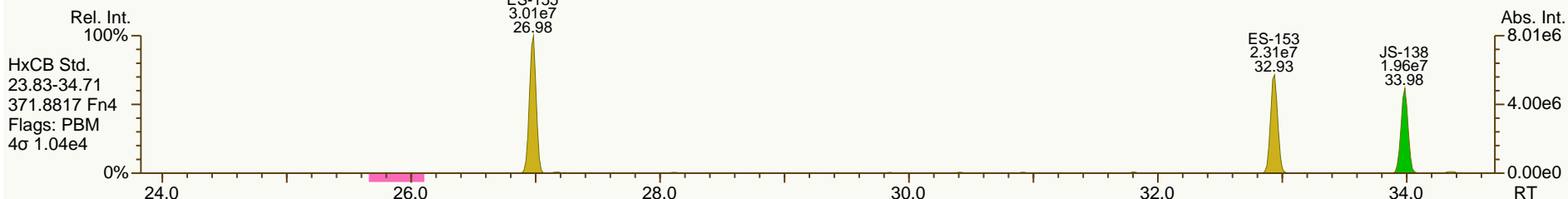
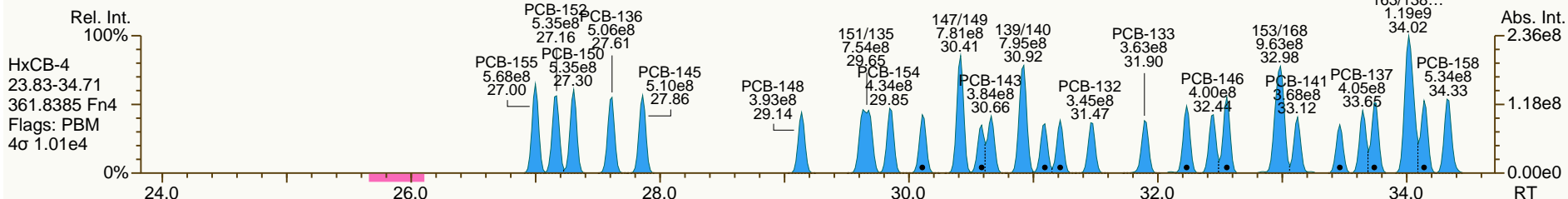
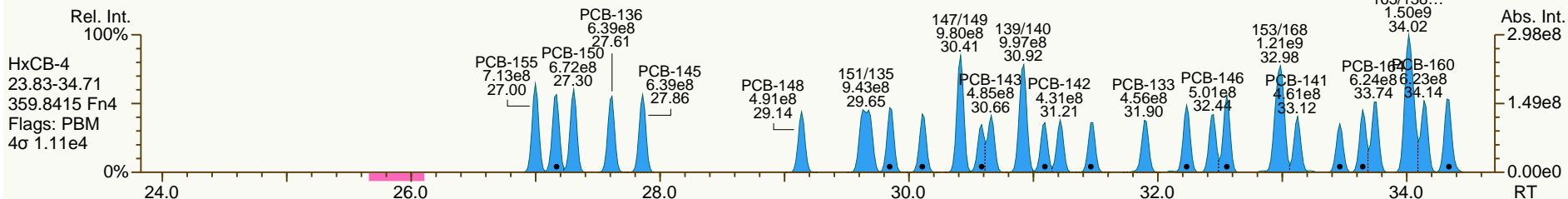
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SGS-AP ID: CS5_130911_PCB_SB
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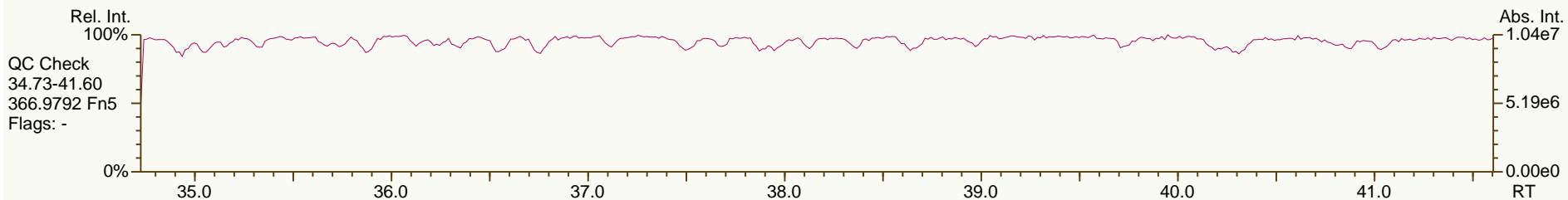
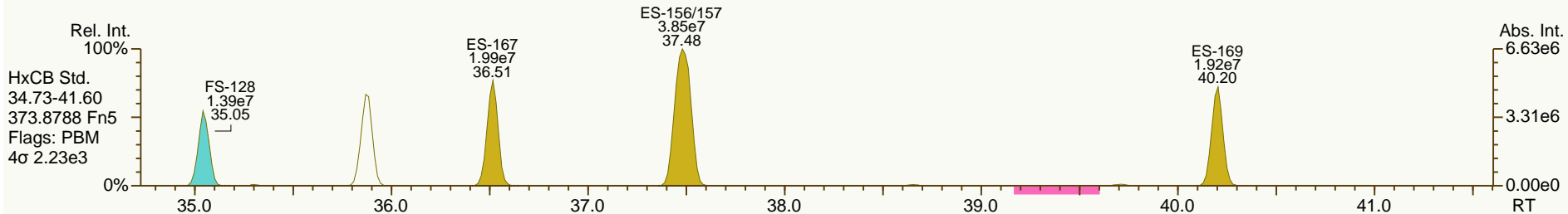
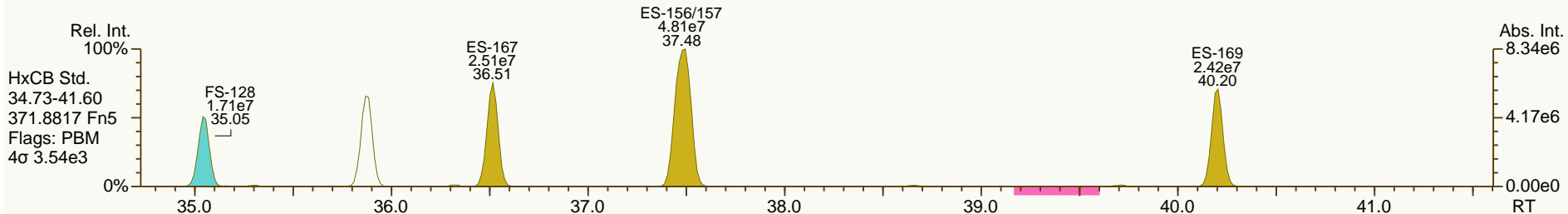
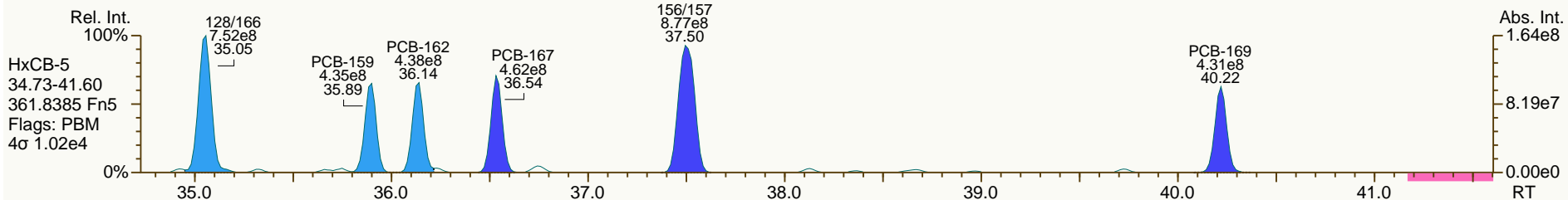
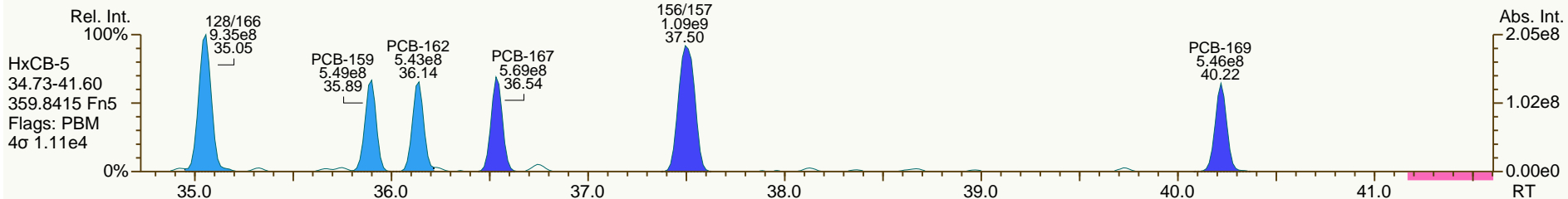
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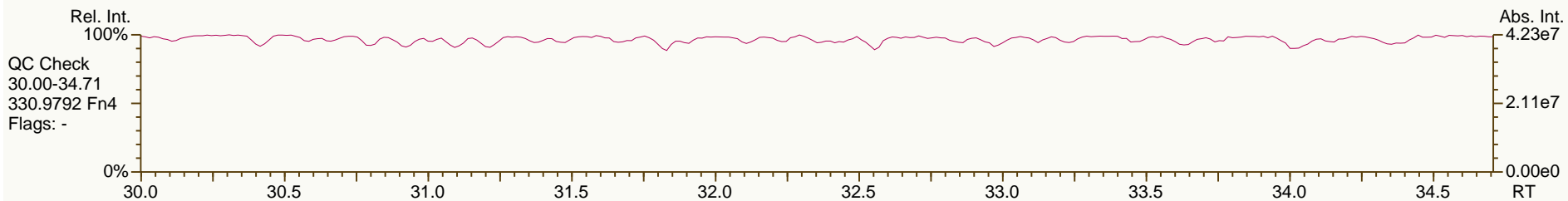
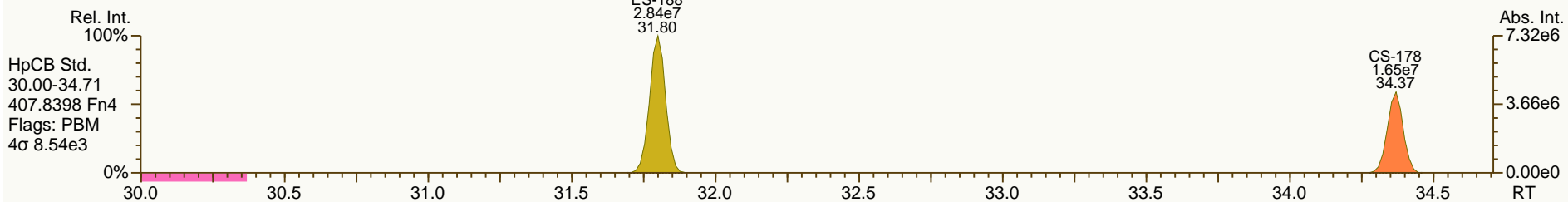
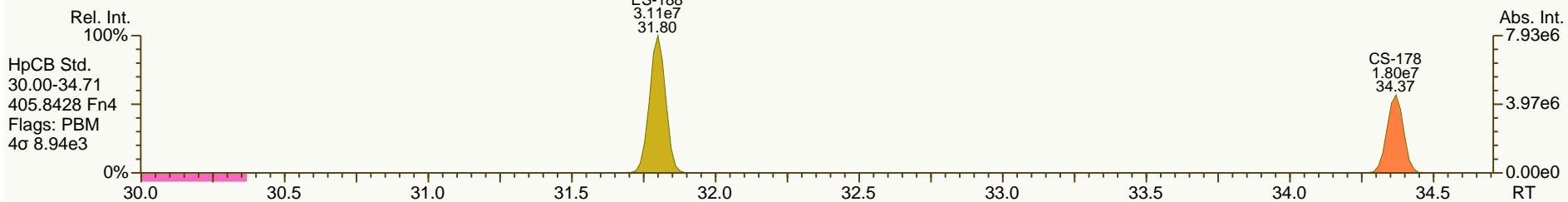
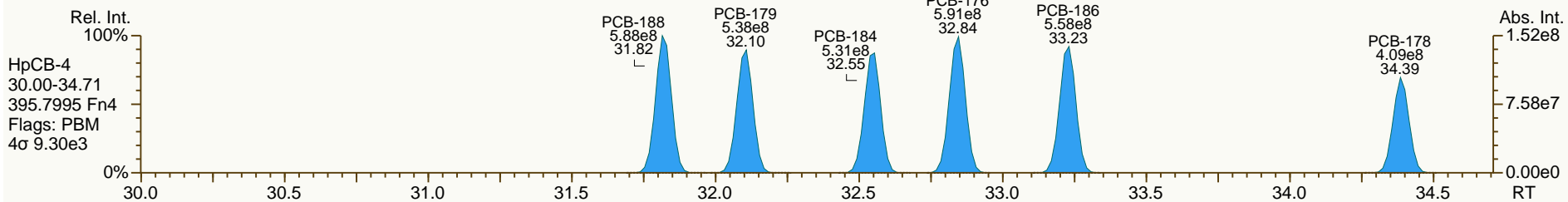
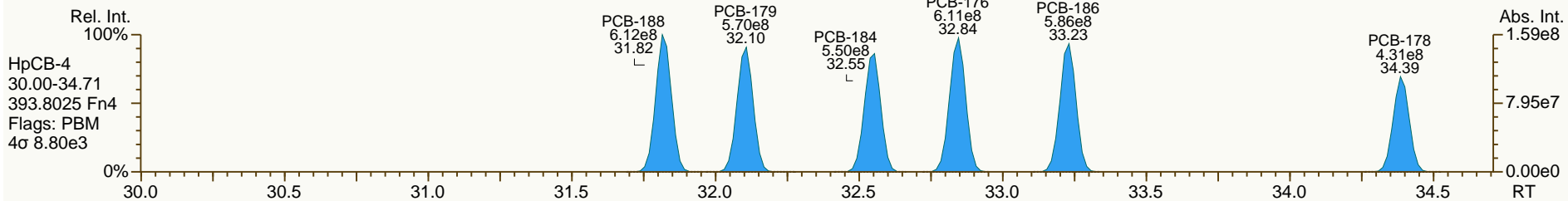
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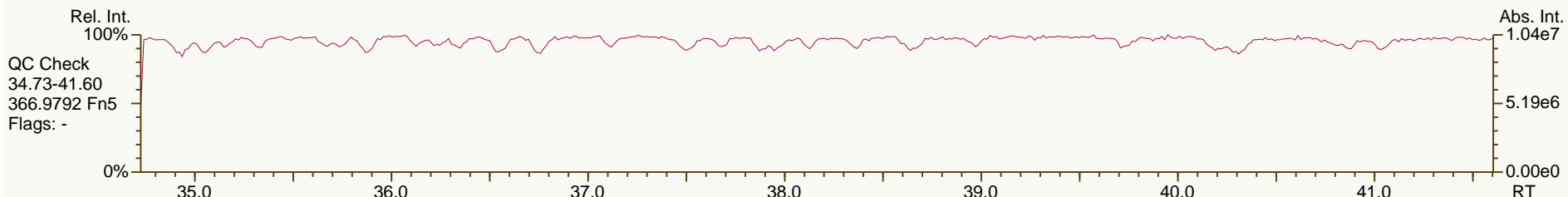
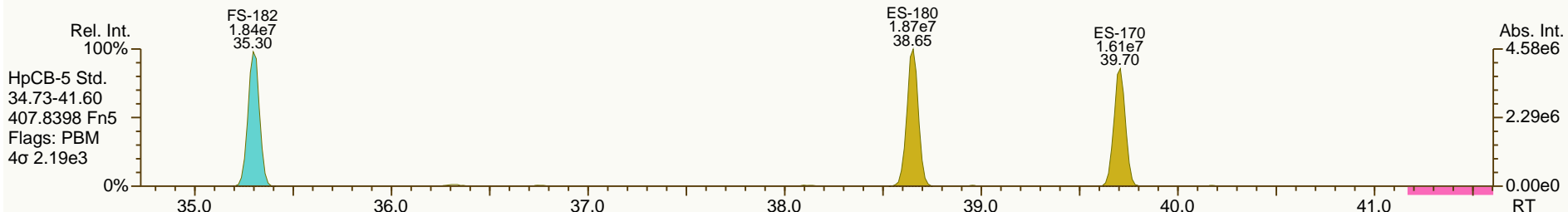
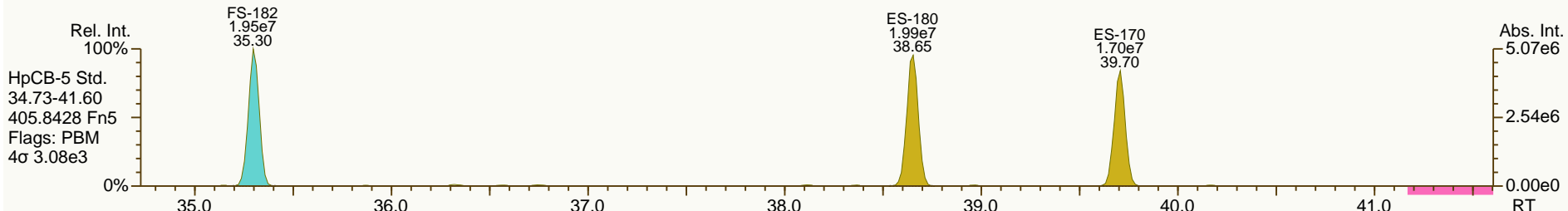
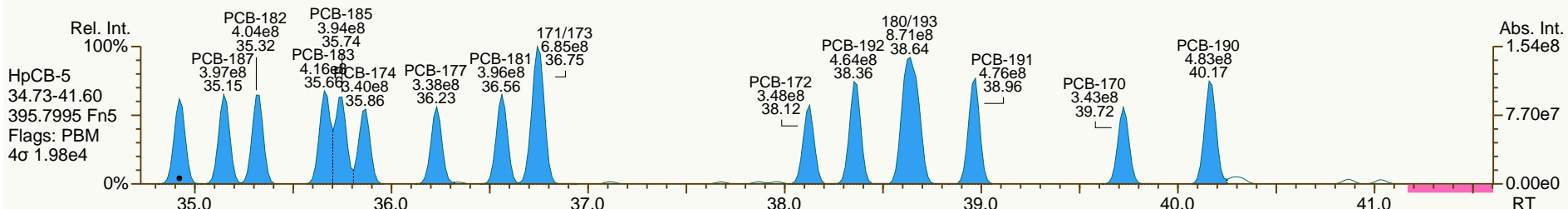
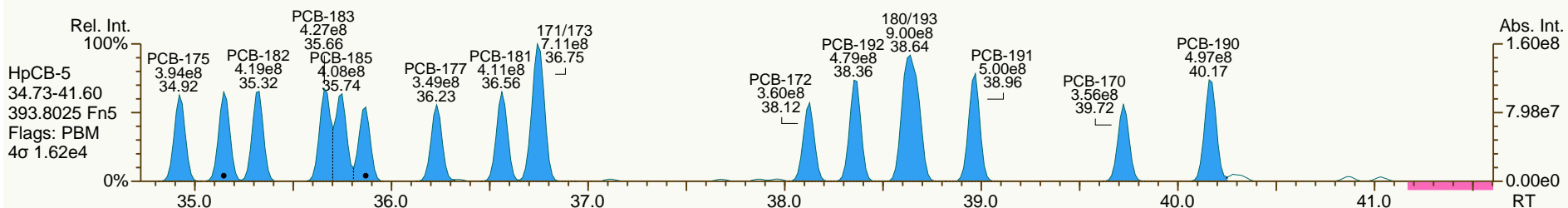
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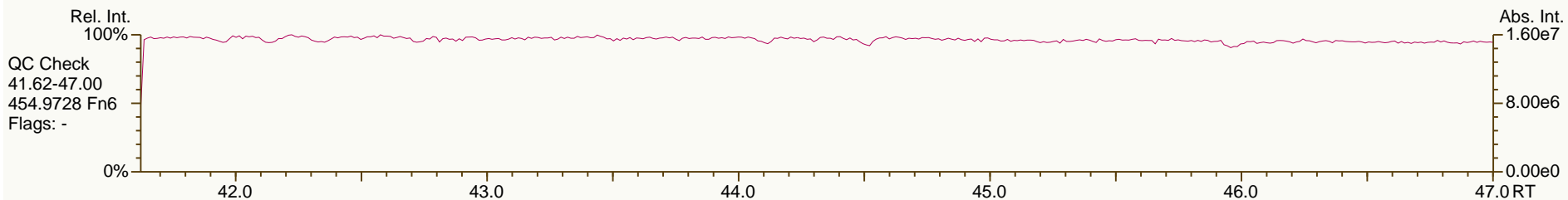
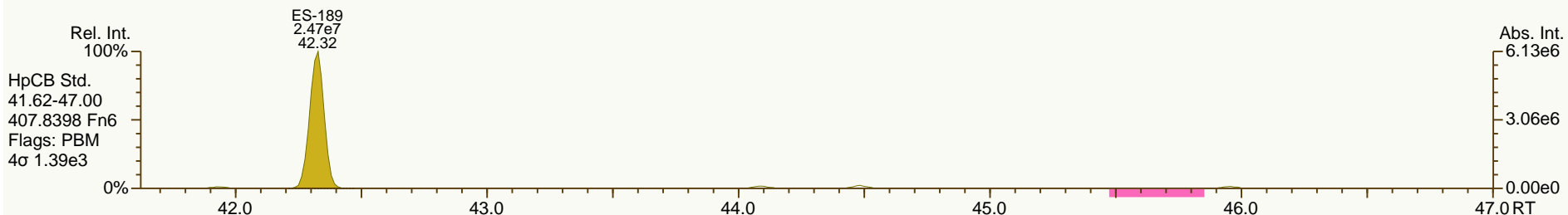
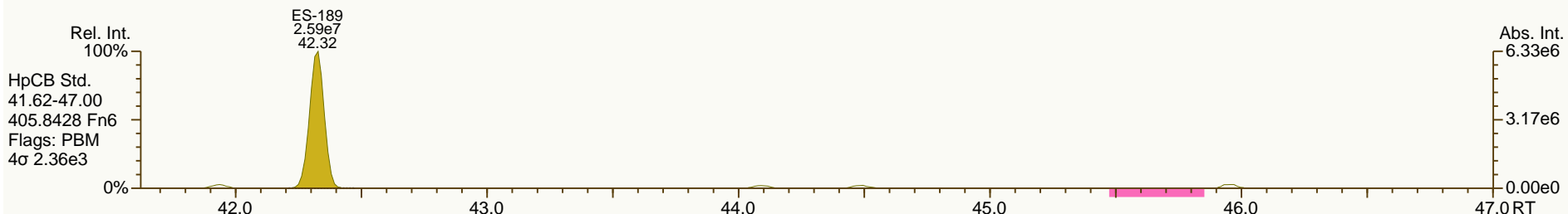
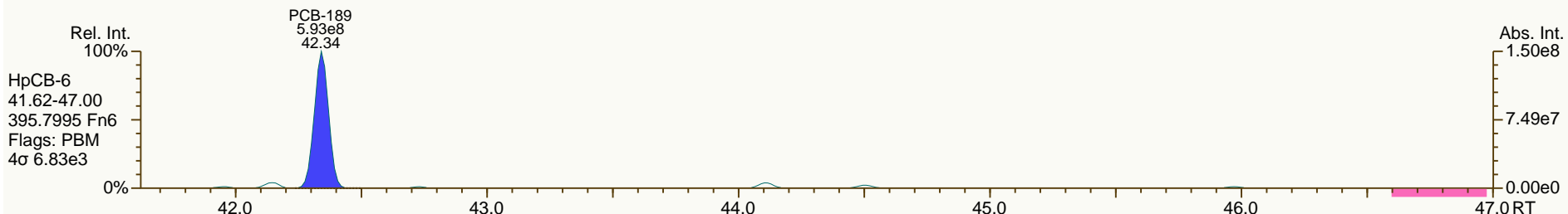
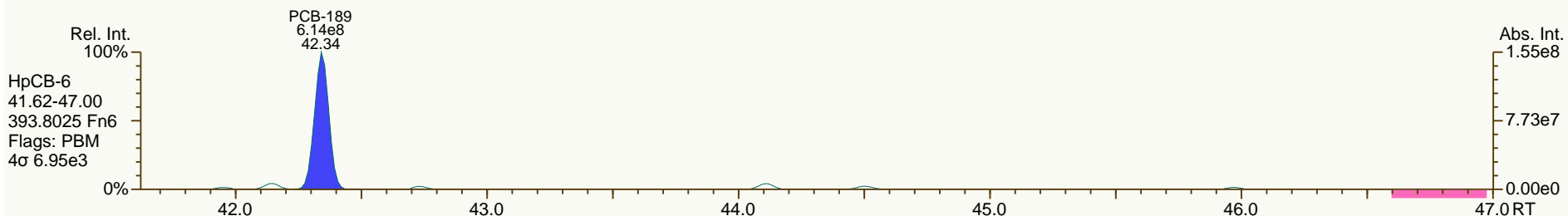
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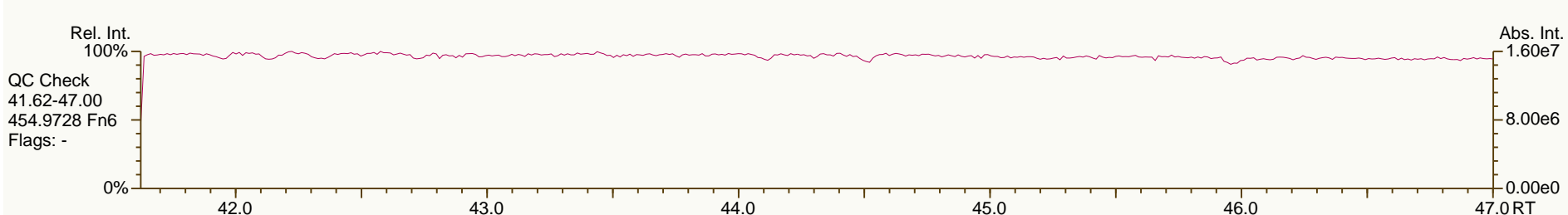
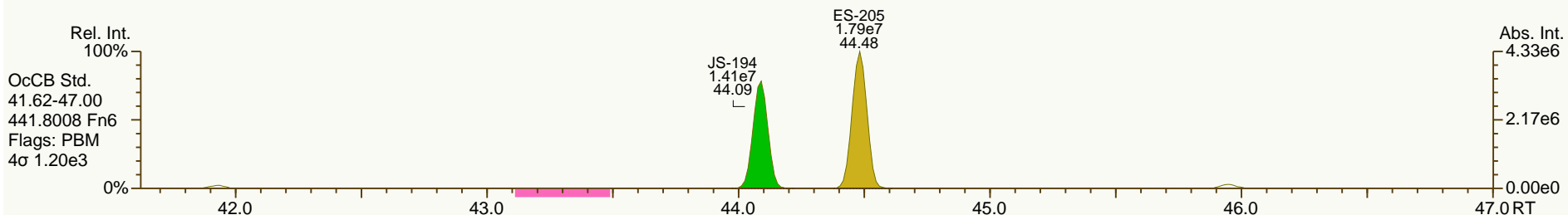
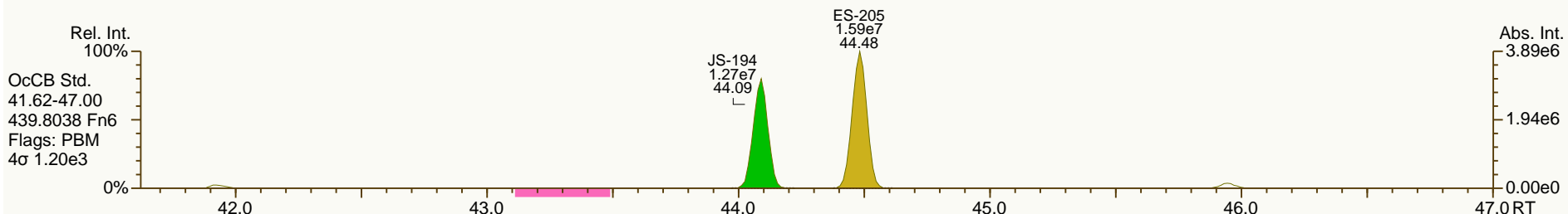
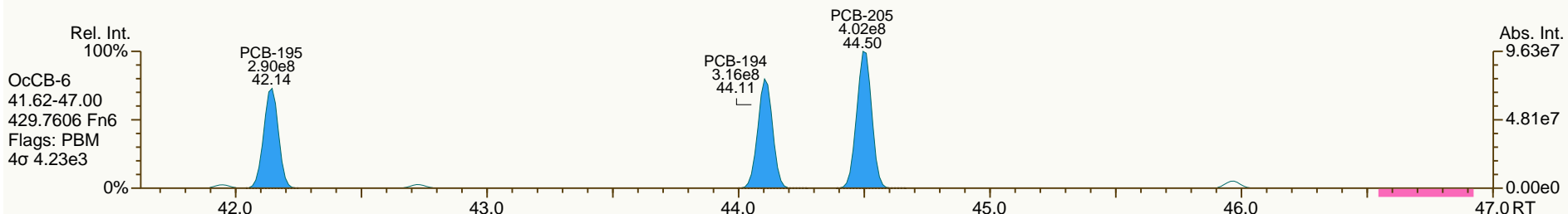
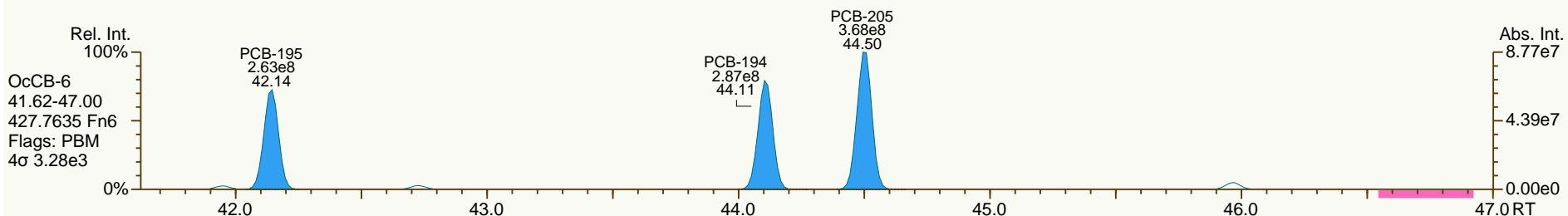
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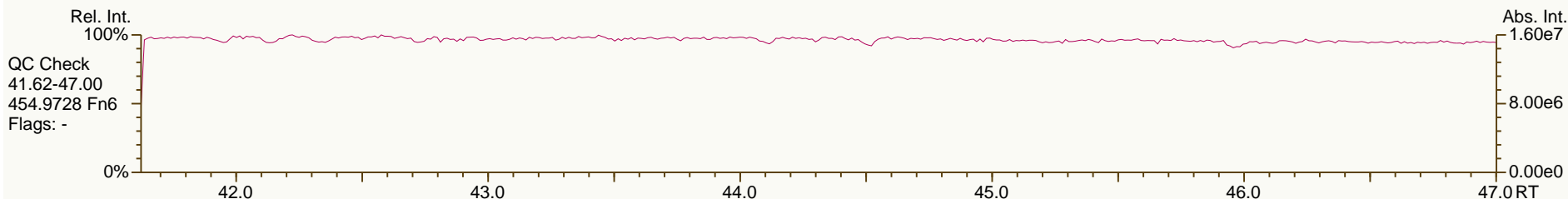
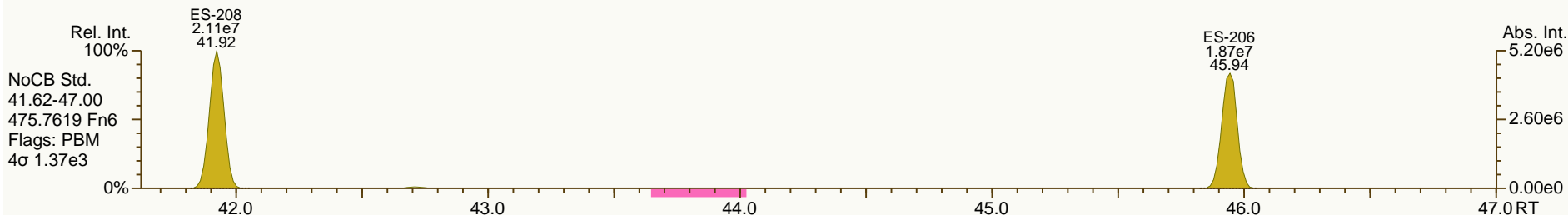
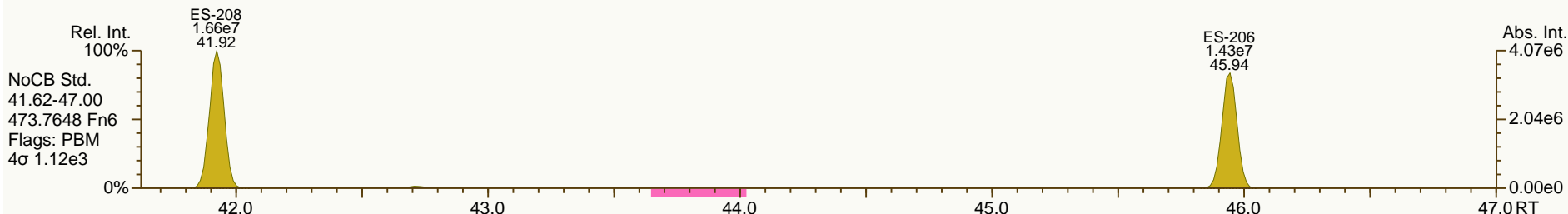
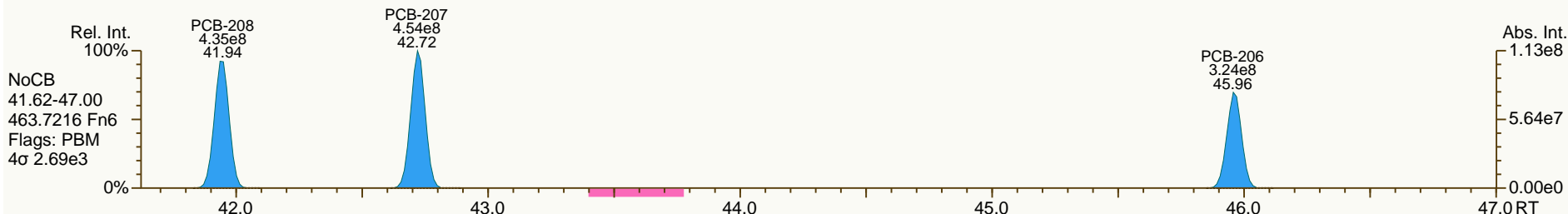
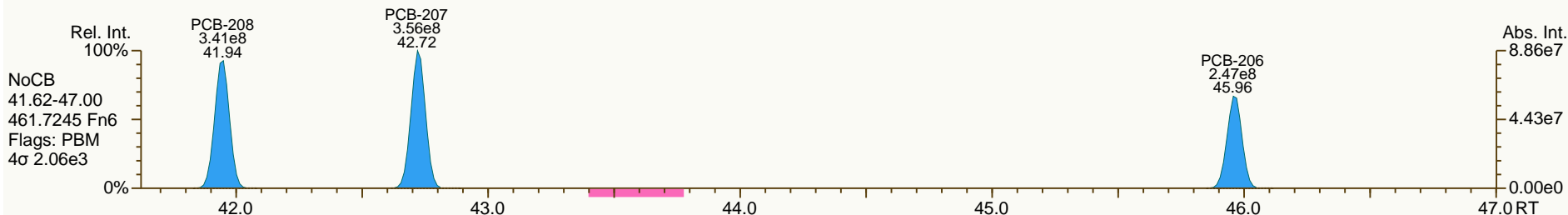
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SGS-AP ID: CS5_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 55

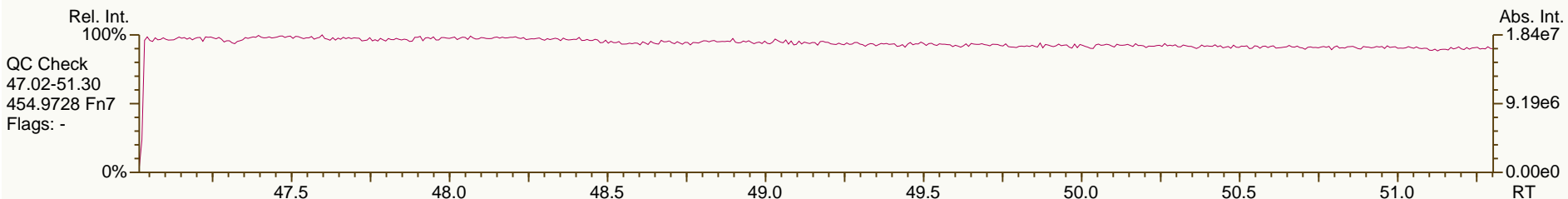
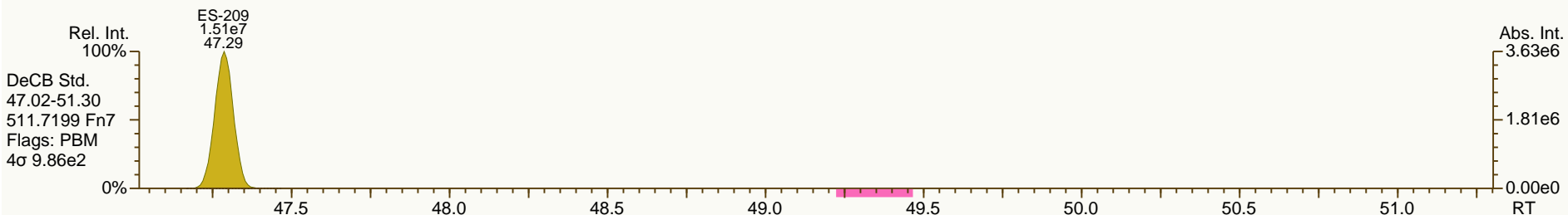
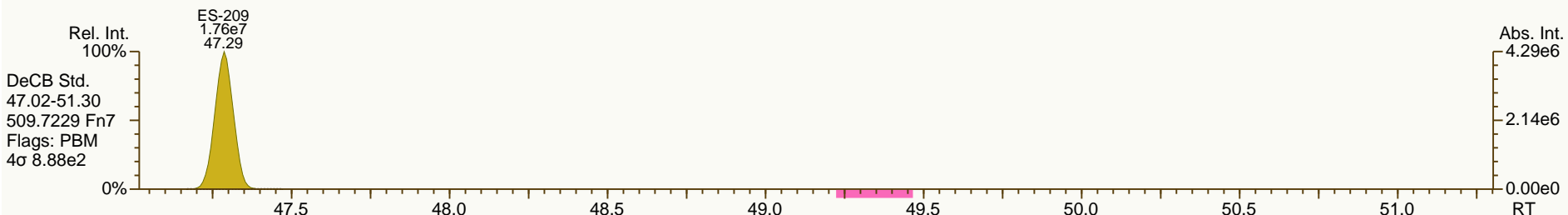
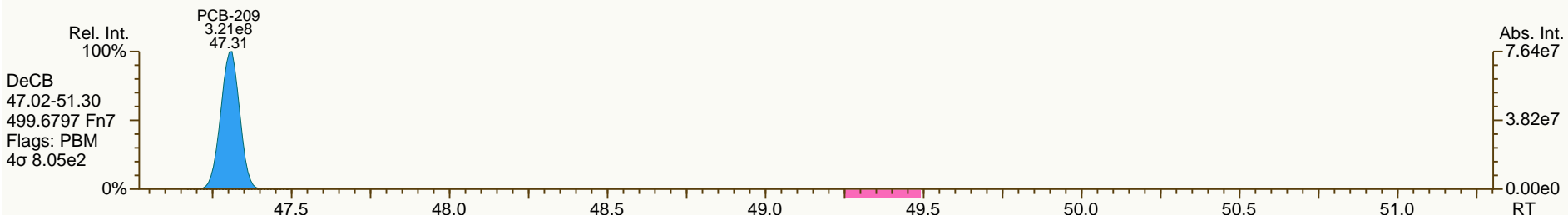
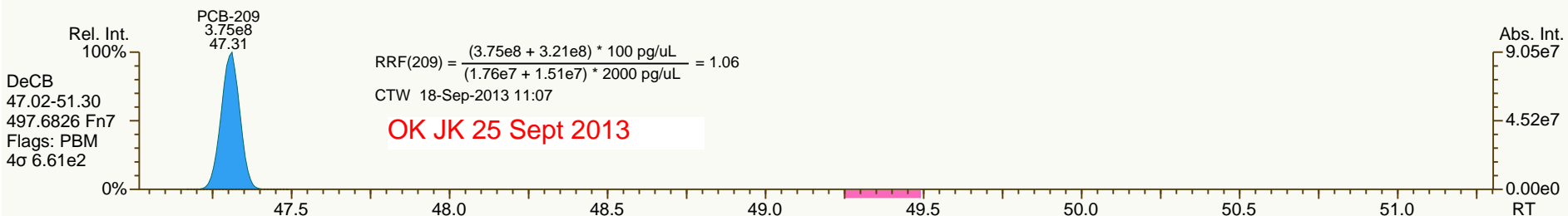
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SGS-AP ID: CS5_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 55

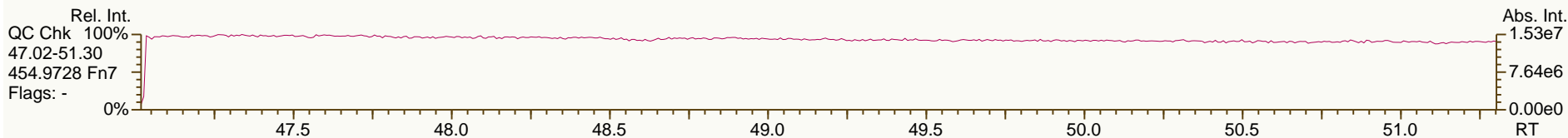
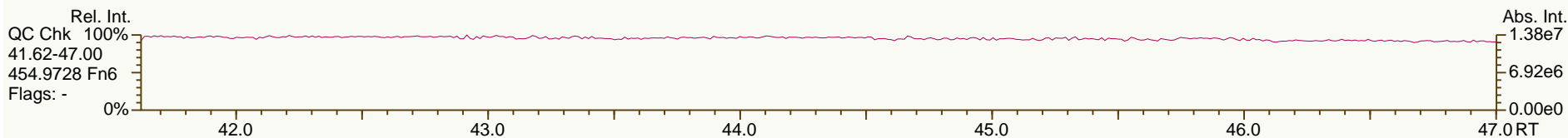
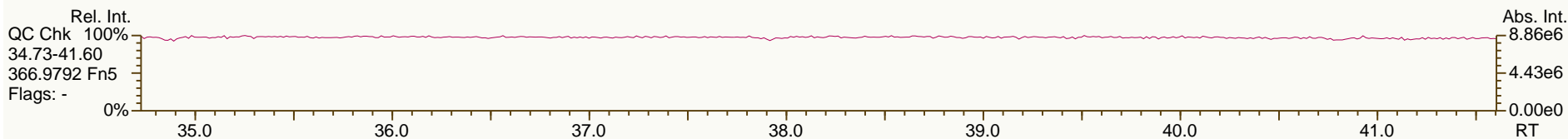
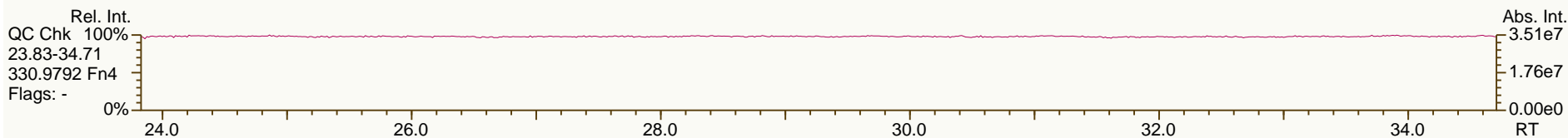
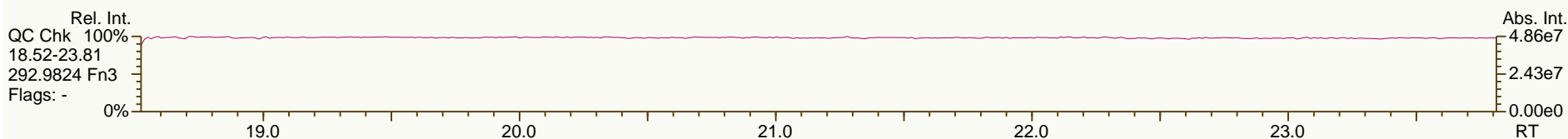
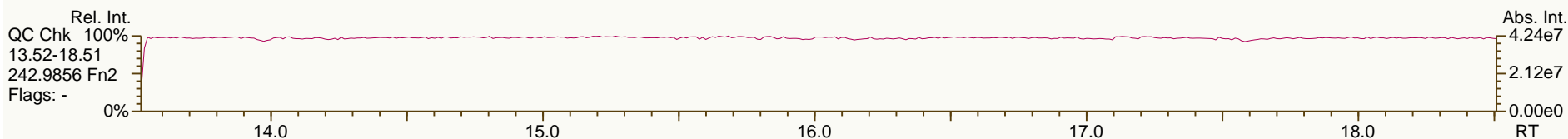
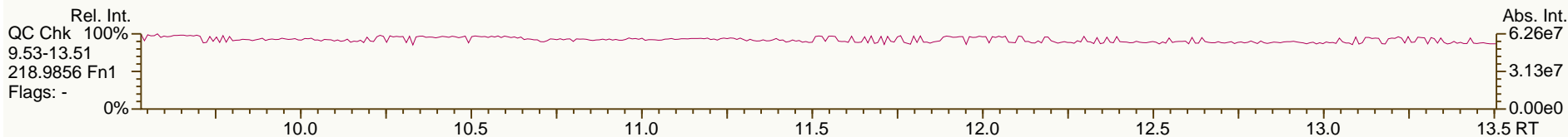
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SGS-AP ID: SBS_130911_PCB_SA
Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

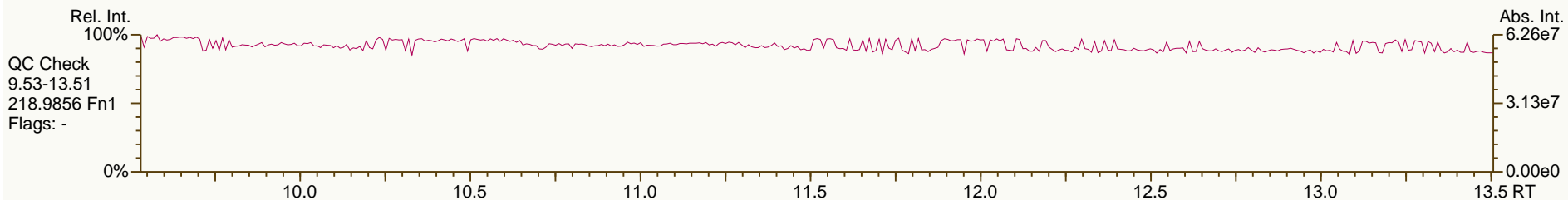
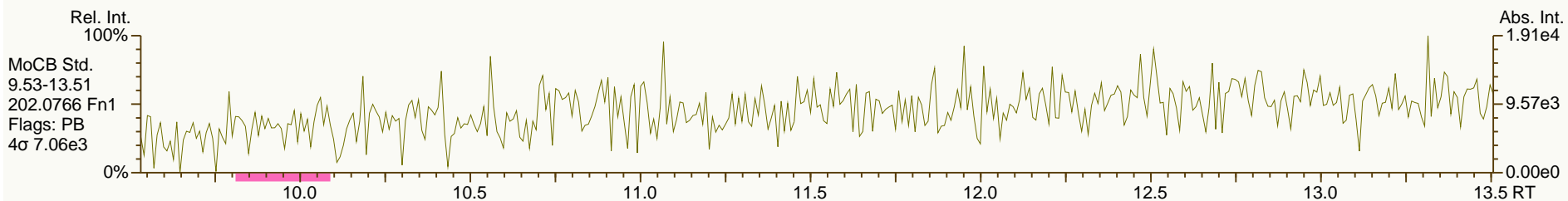
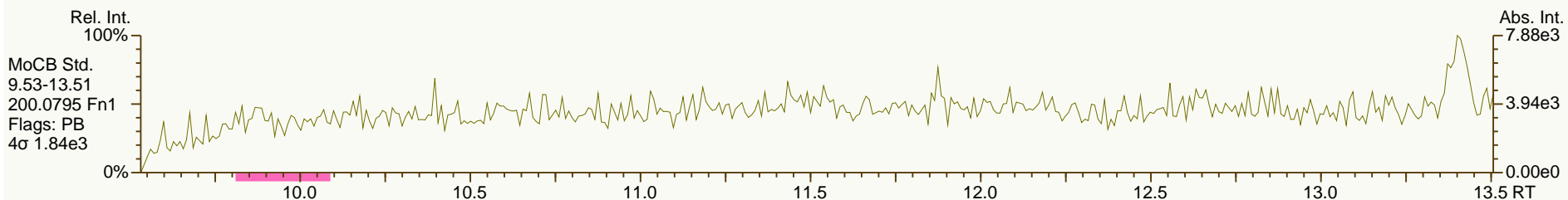
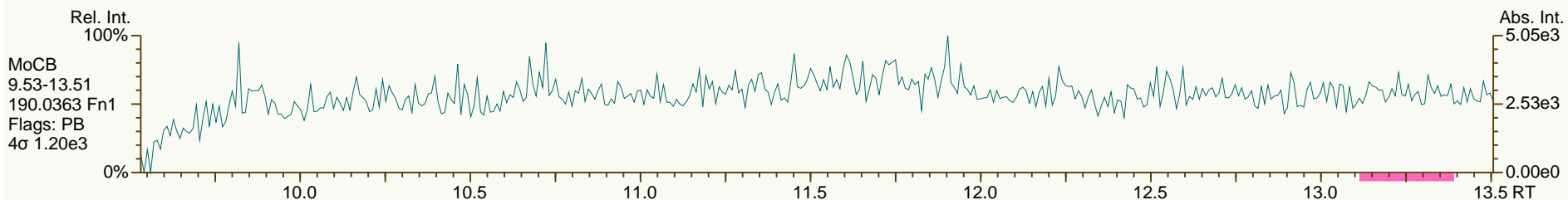
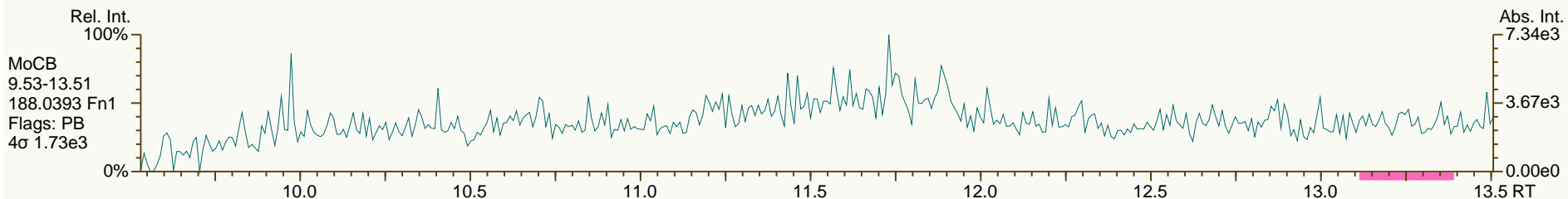
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SGS-AP ID: SBS_130911_PCB_SA
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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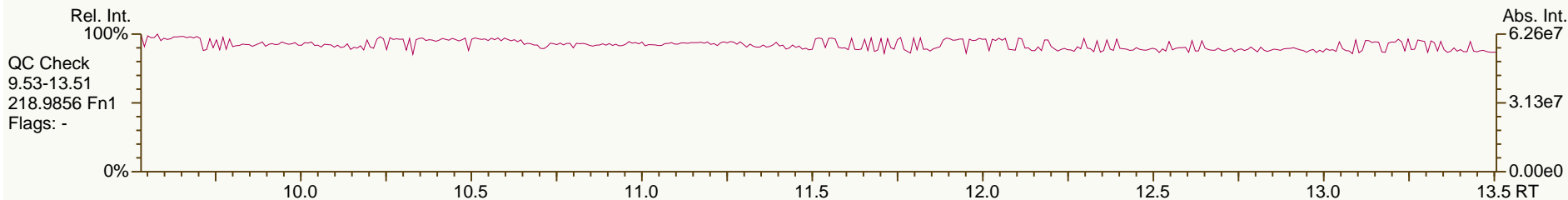
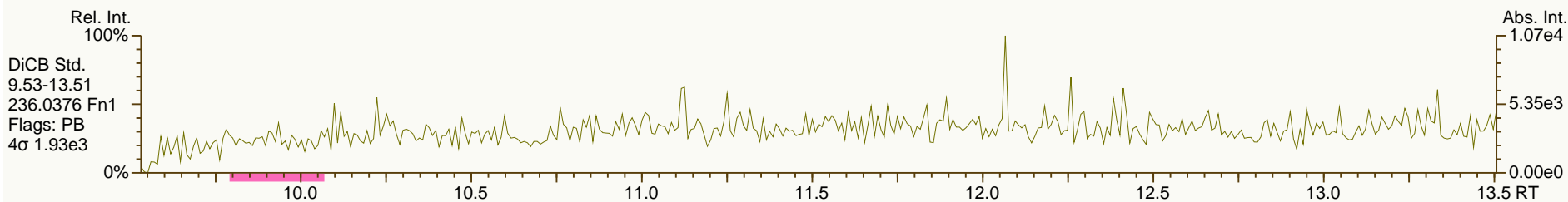
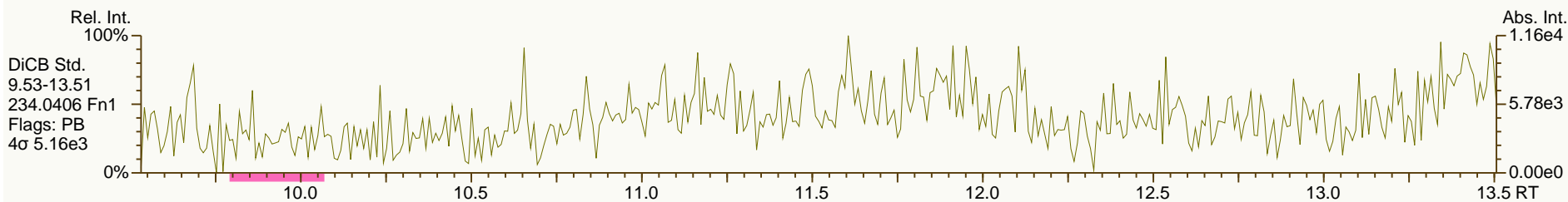
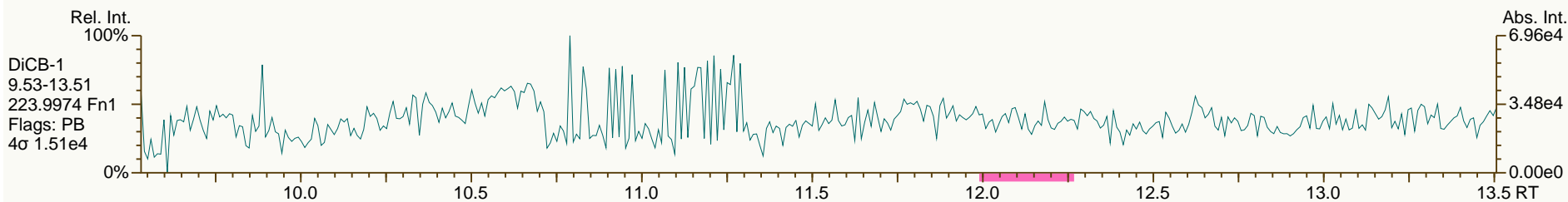
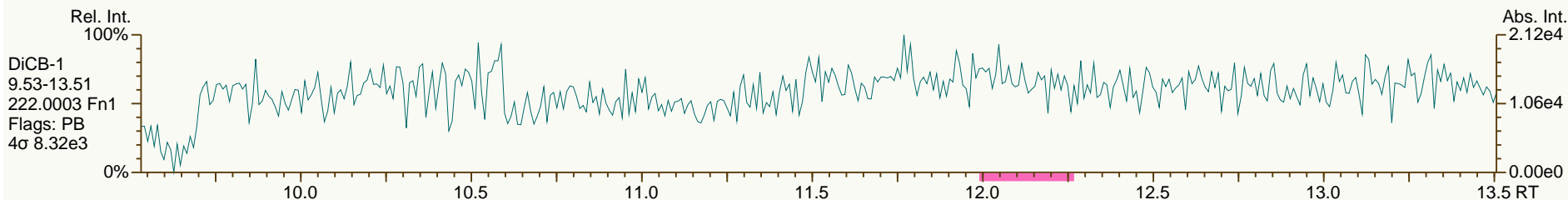
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SGS-AP ID: SBS_130911_PCB_SA
Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

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User: CTW Datafile: 130911S02



SGS-AP ID: SBS_130911_PCB_SA
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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SGS-AP ID: SBS_130911_PCB_SA
Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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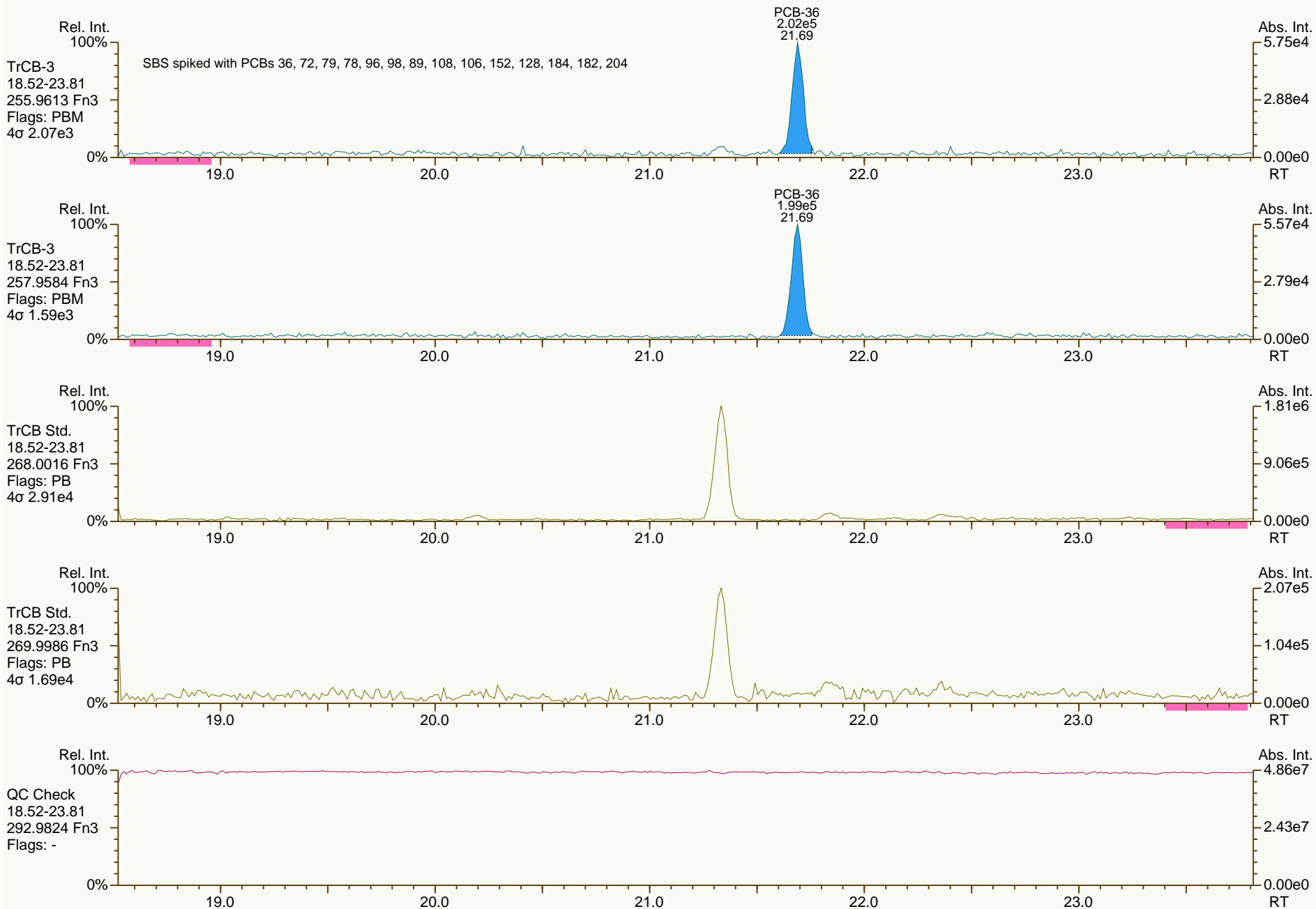
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SGS-AP ID: SBS_130911_PCB_SA
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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Acq: 11-Sep-2013 12:36:54
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SGS-AP ID: SBS_130911_PCB_SA
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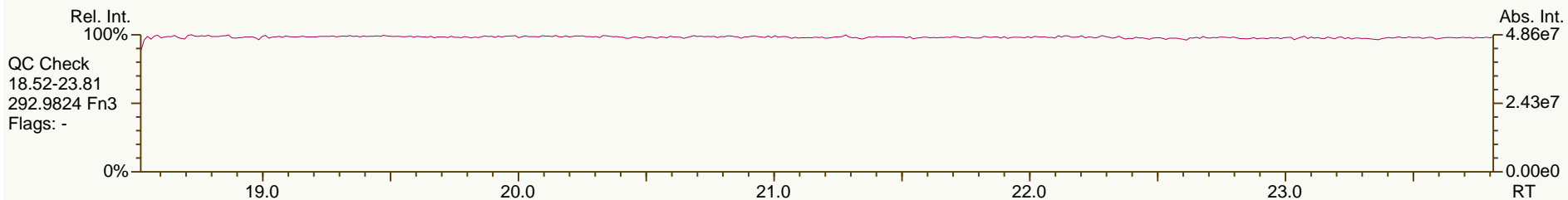
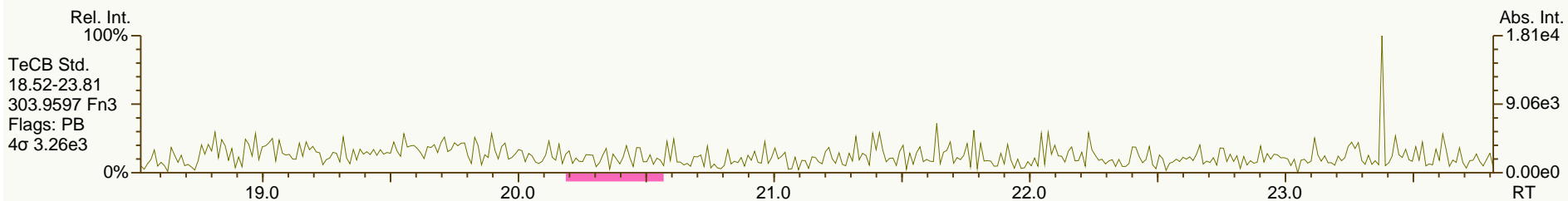
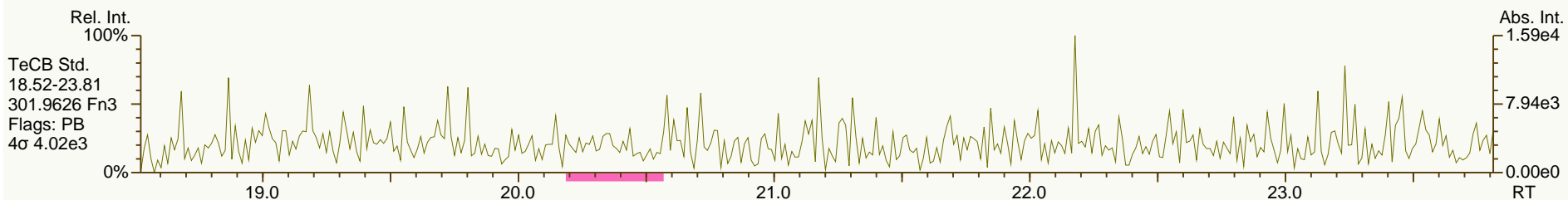
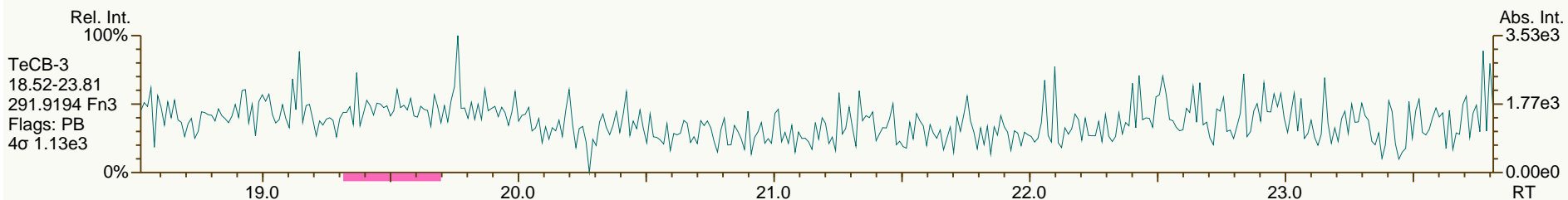
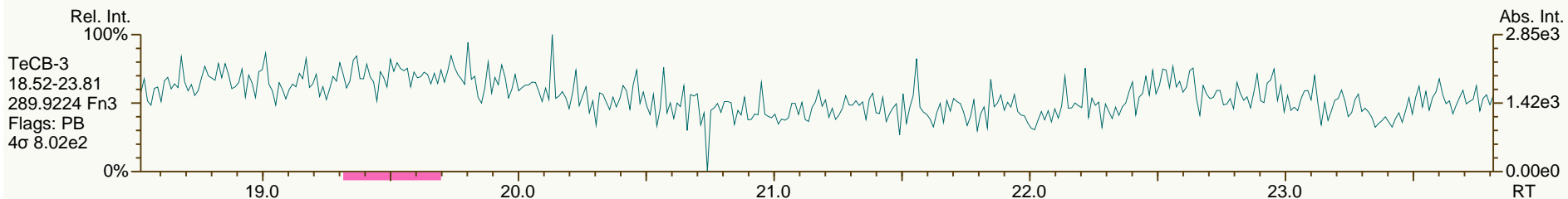
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SGS-AP ID: SBS_130911_PCB_SA
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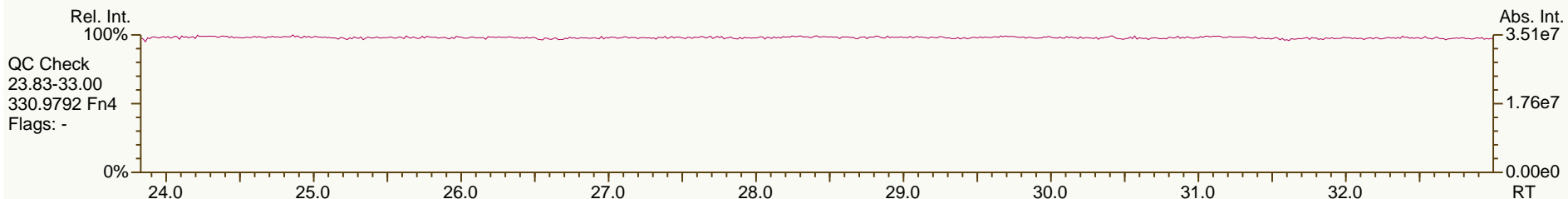
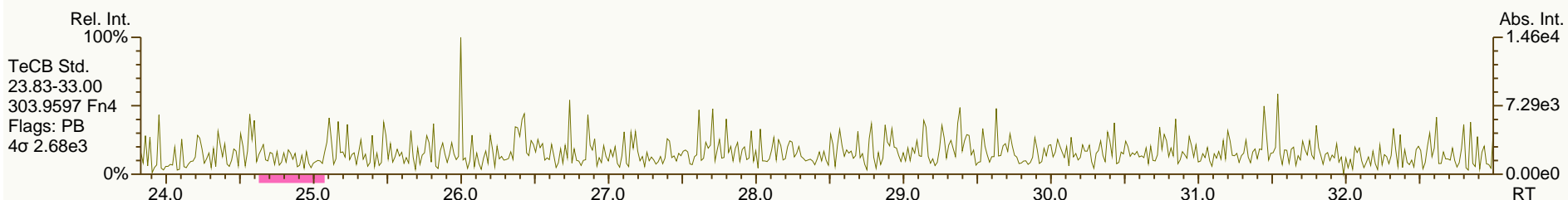
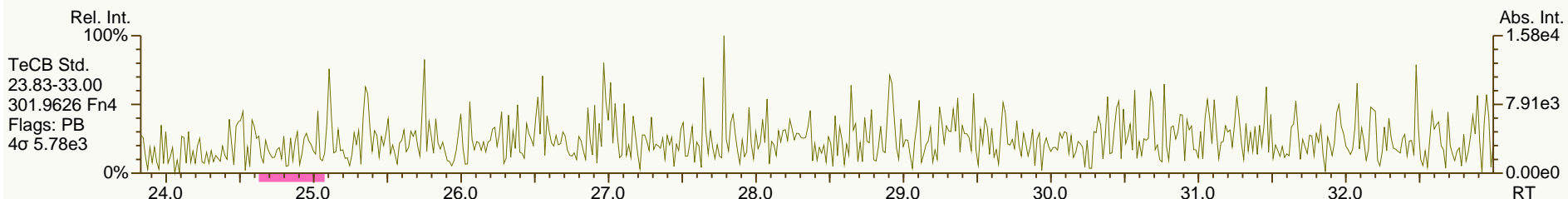
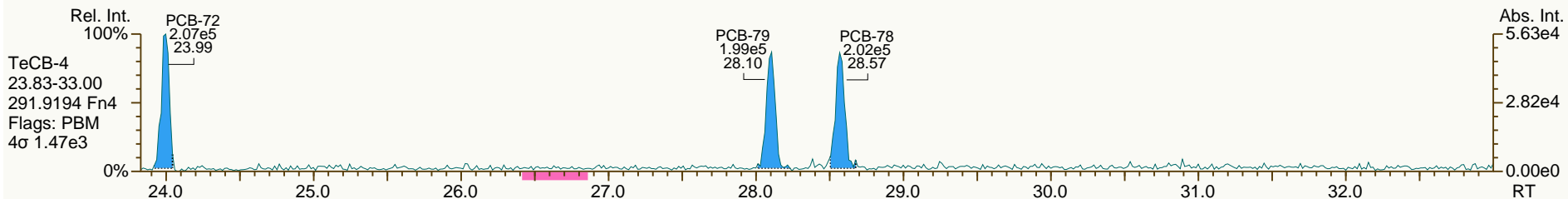
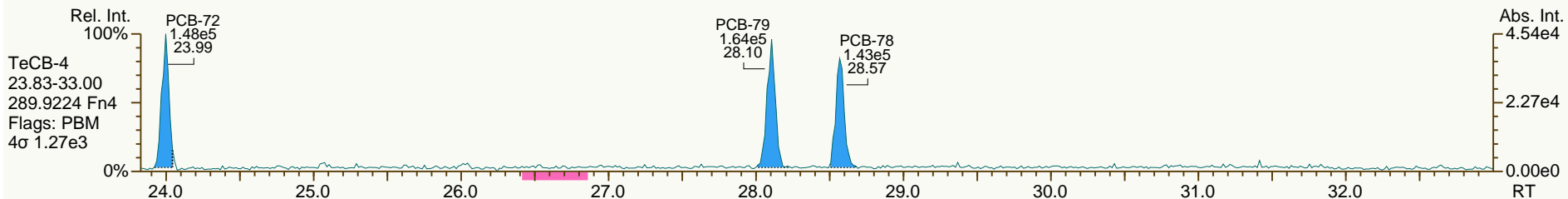
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SGS-AP ID: SBS_130911_PCB_SA
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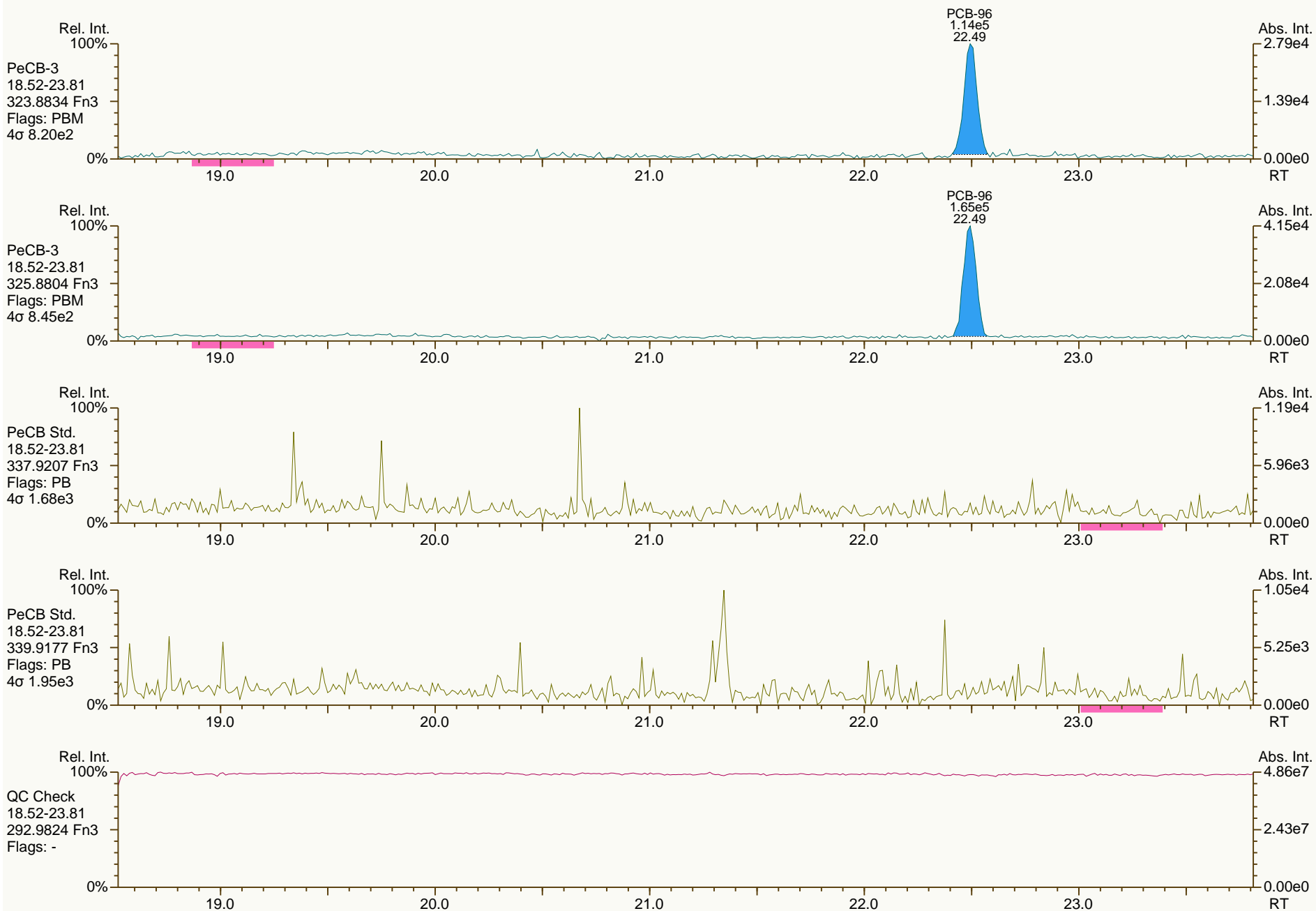
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SGS-AP ID: SBS_130911_PCB_SA
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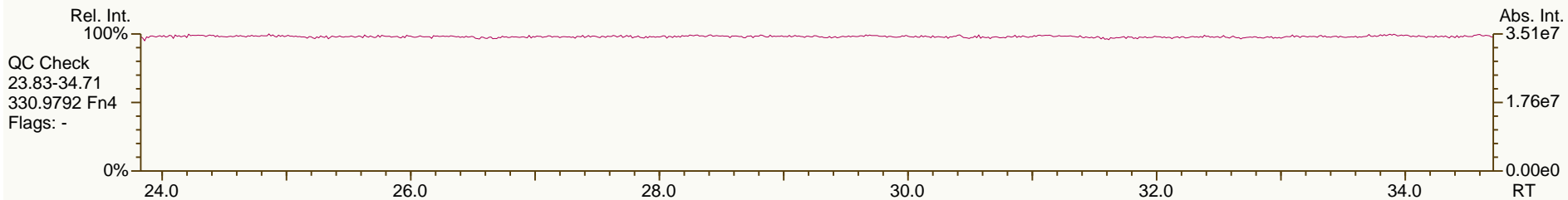
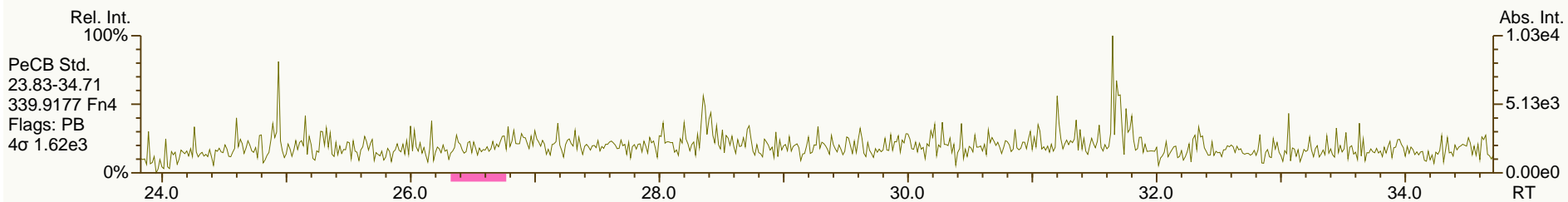
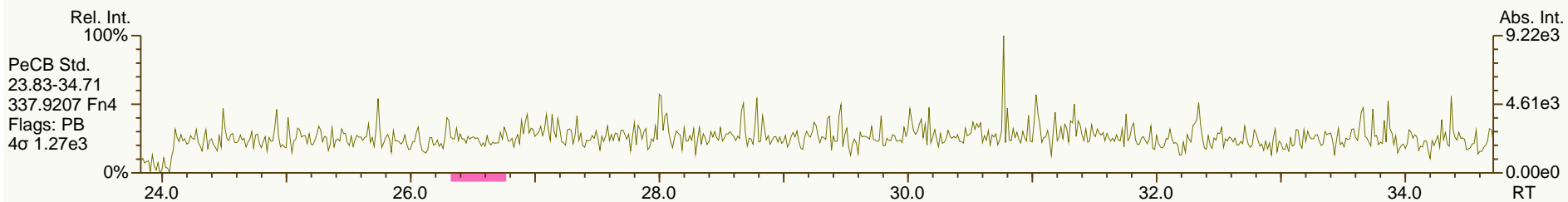
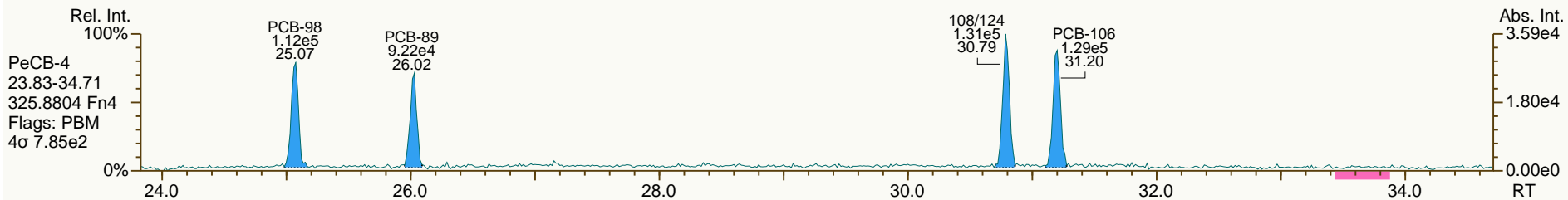
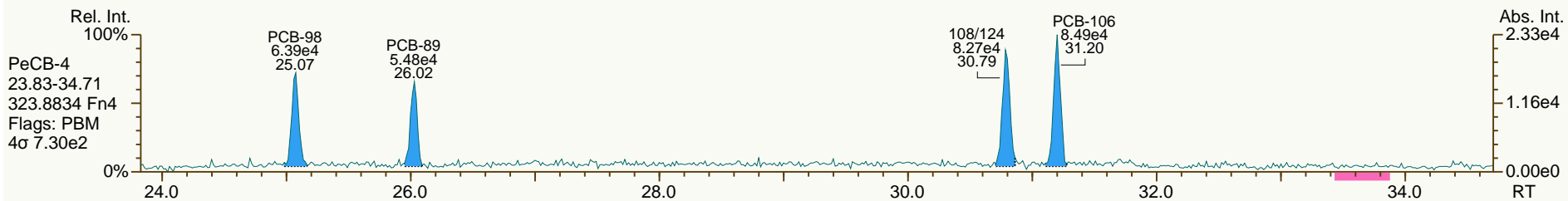
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SGS-AP ID: SBS_130911_PCB_SA
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Sample ID: SIL9-41-1
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SGS-AP ID: SBS_130911_PCB_SA
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Sample ID: SIL9-41-1
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SGS-AP ID: SBS_130911_PCB_SA
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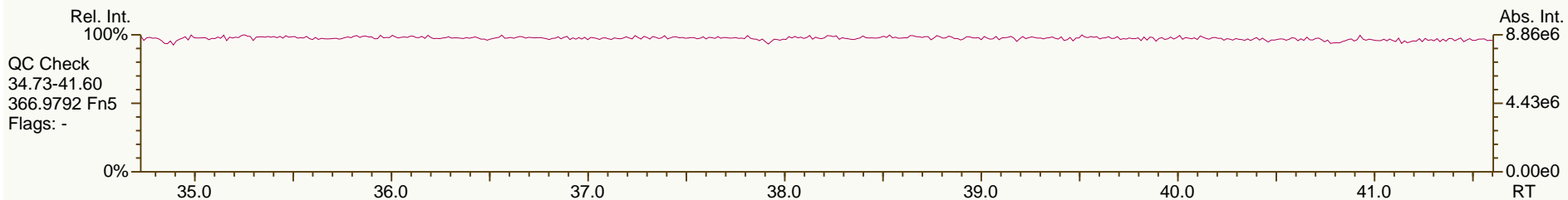
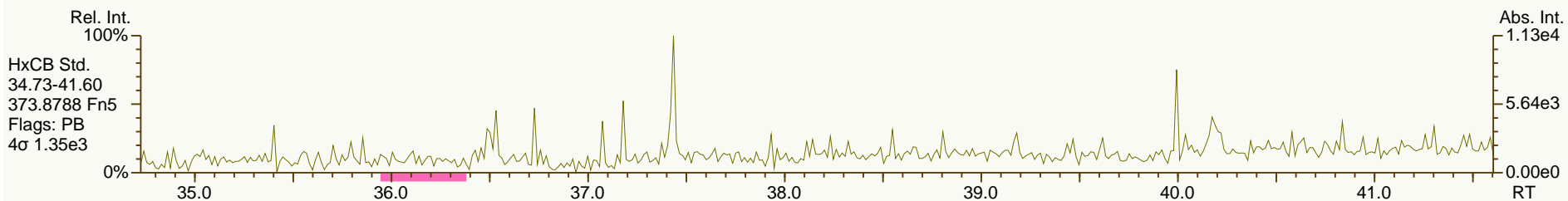
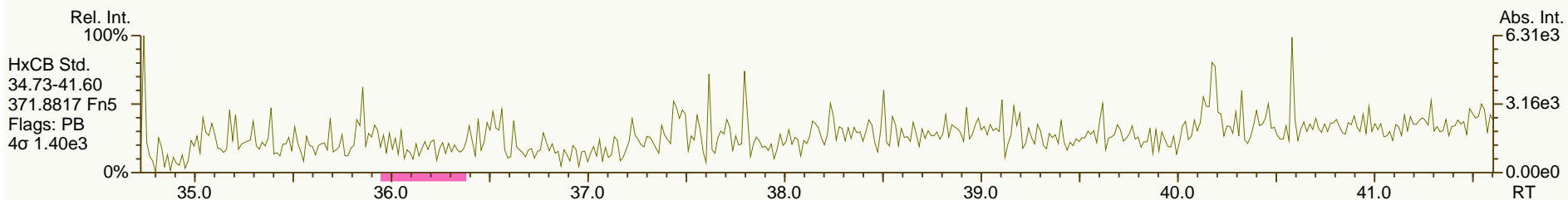
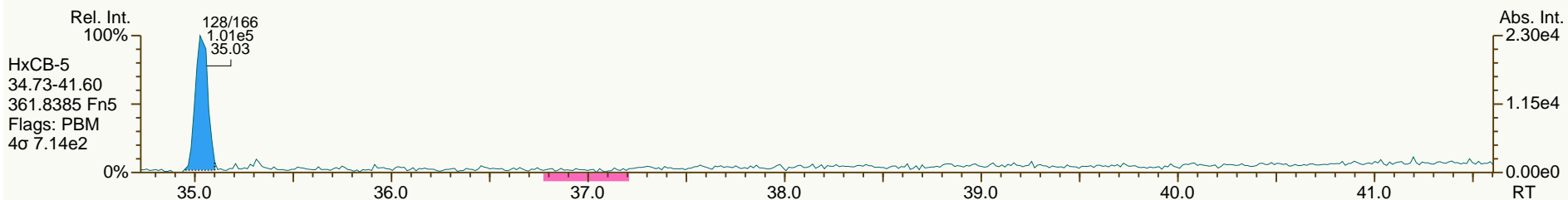
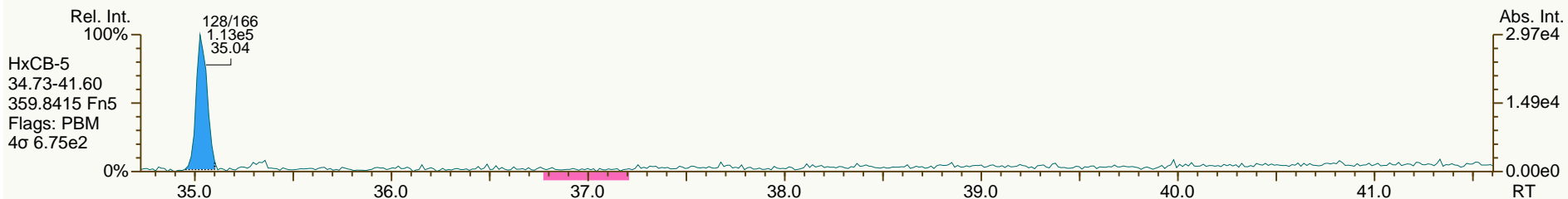
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SGS-AP ID: SBS_130911_PCB_SA
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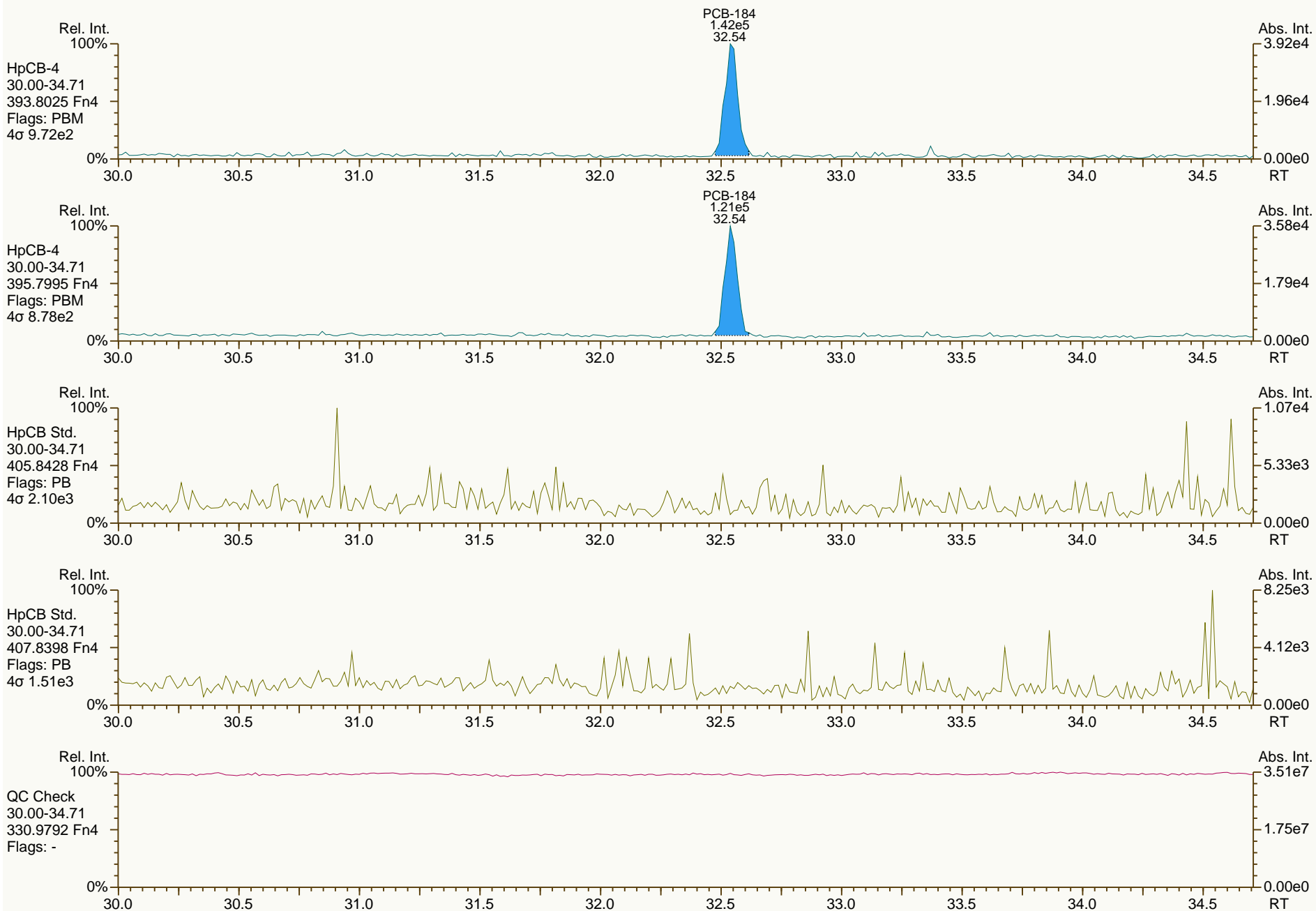
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SGS-AP ID: SBS_130911_PCB_SA
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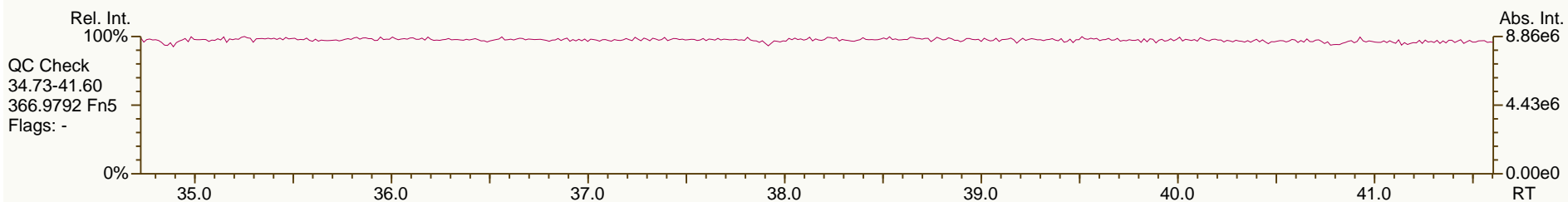
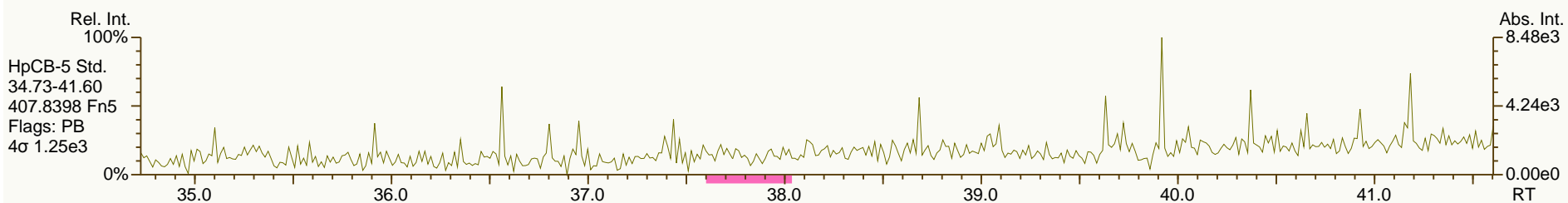
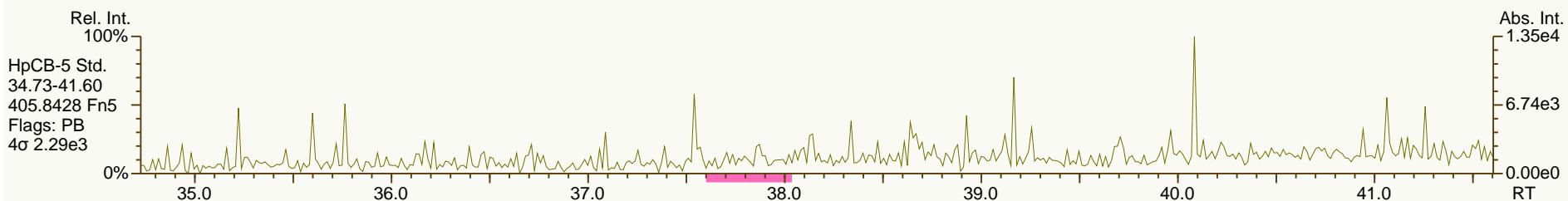
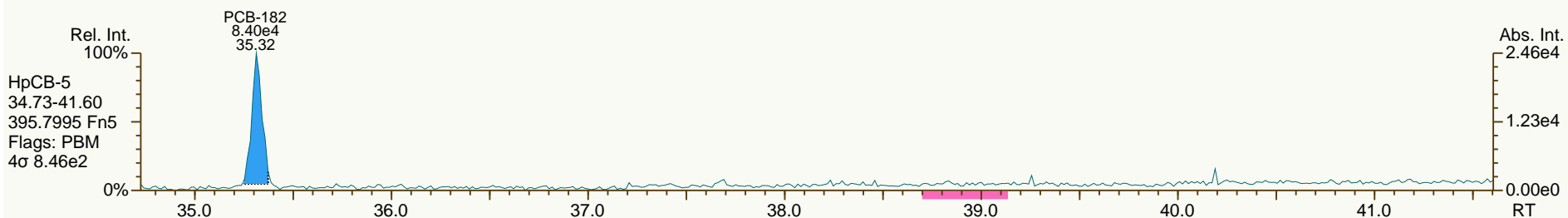
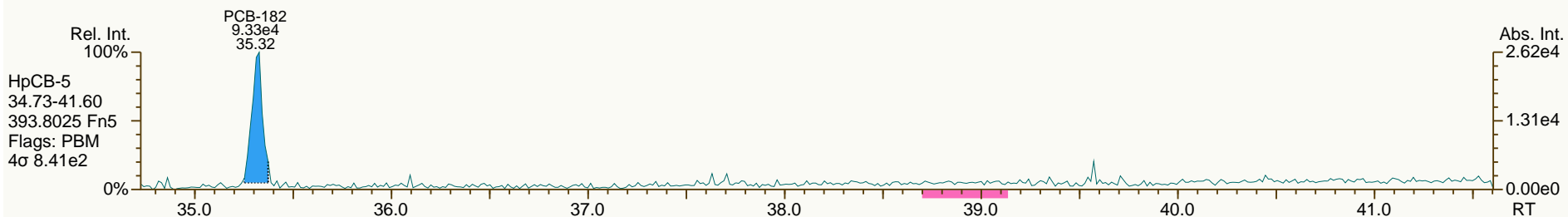
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SGS-AP ID: SBS_130911_PCB_SA
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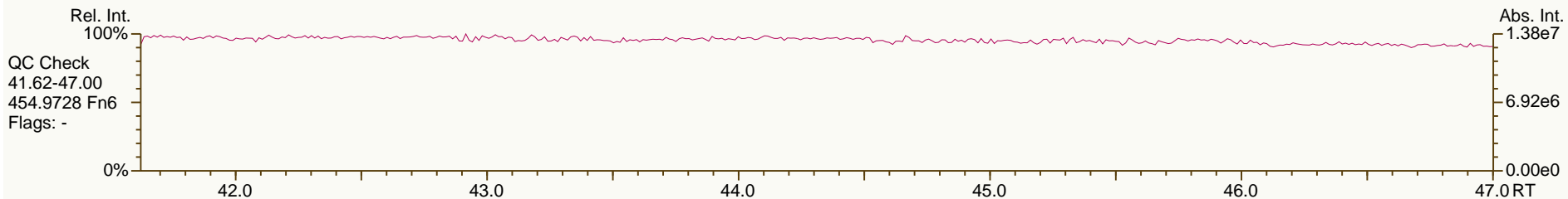
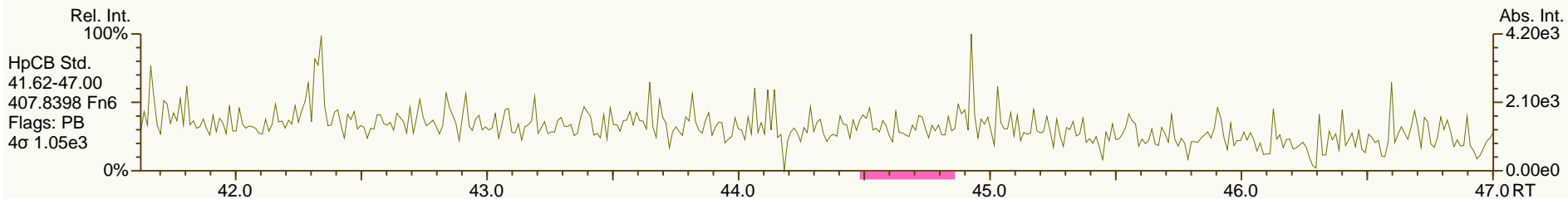
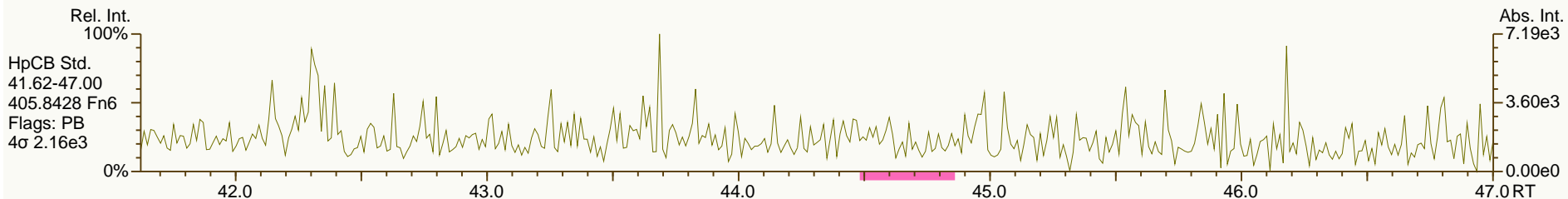
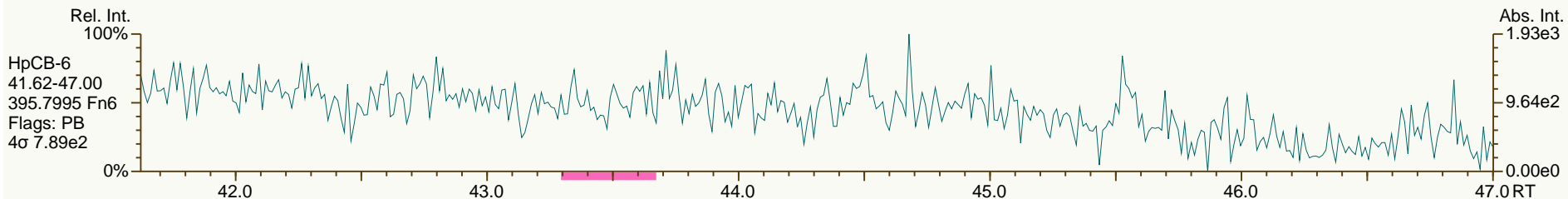
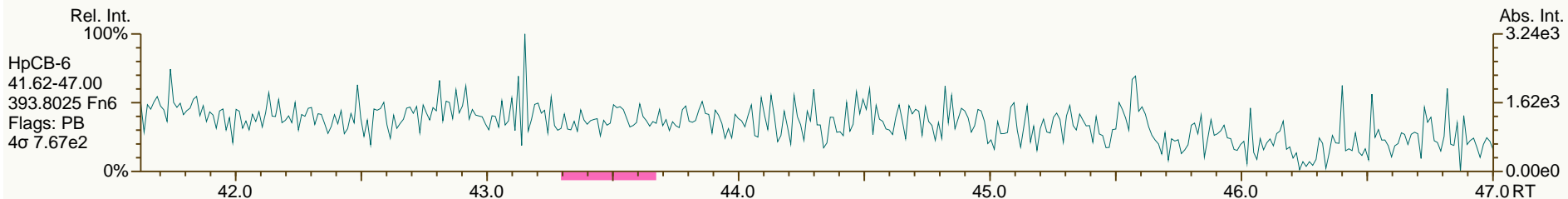
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SGS-AP ID: SBS_130911_PCB_SA
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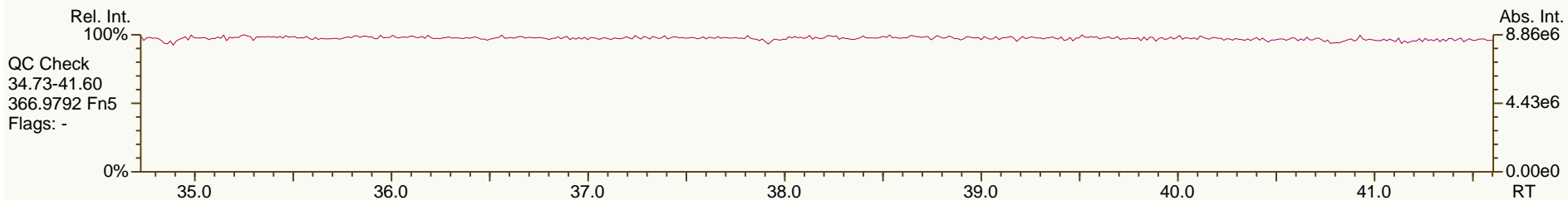
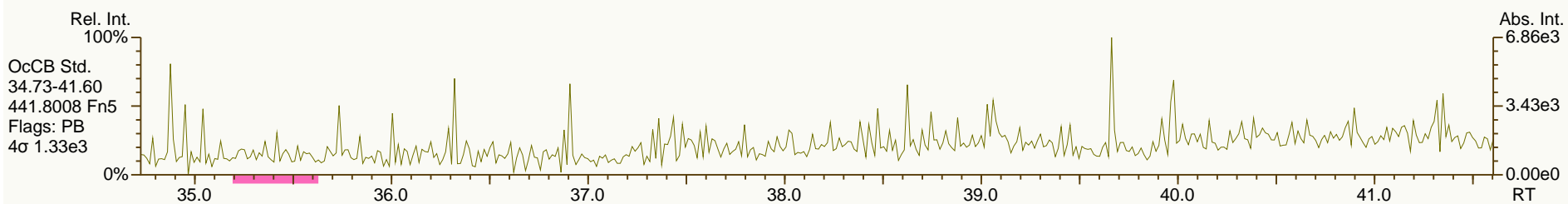
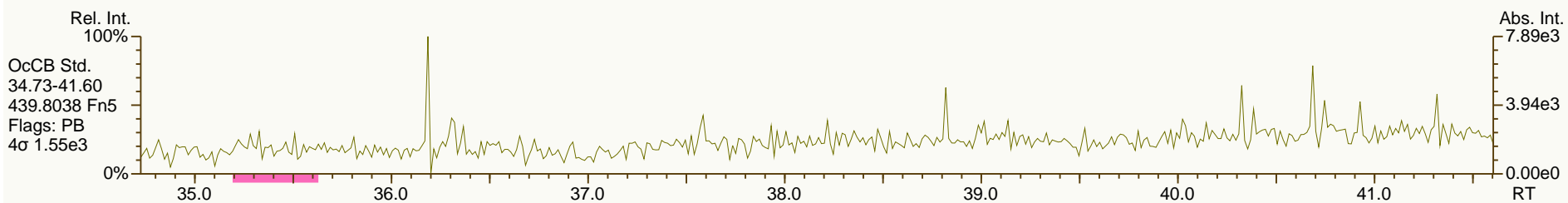
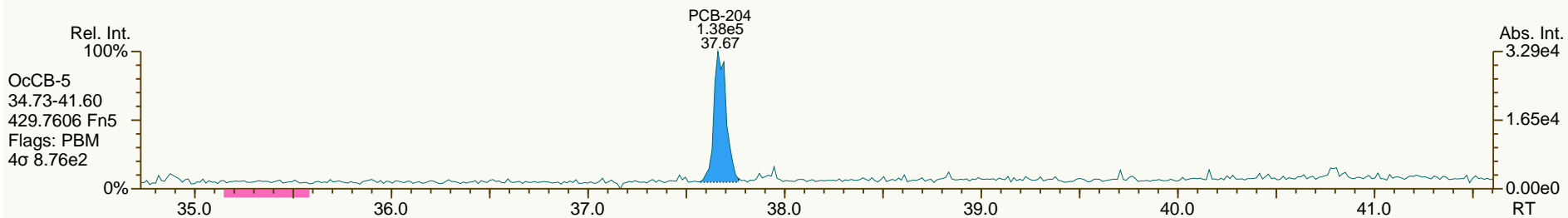
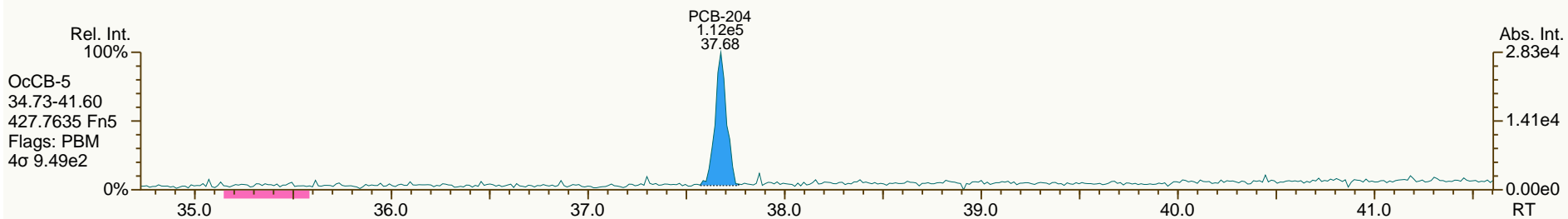
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SGS-AP ID: SBS_130911_PCB_SA
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Sample ID: SIL9-41-1
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SGS-AP ID: SBS_130911_PCB_SA
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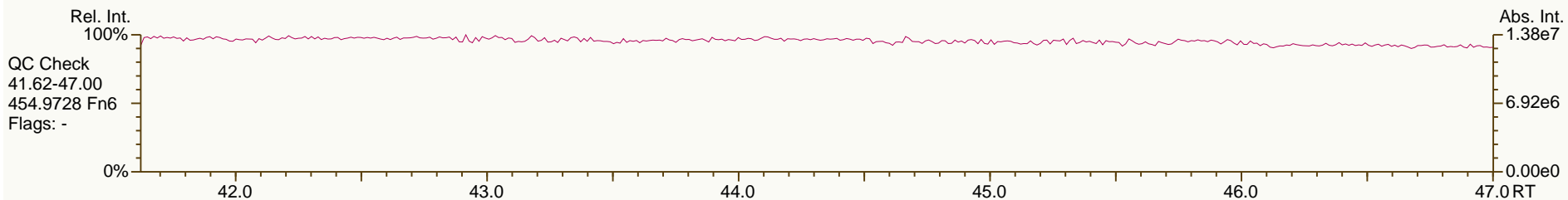
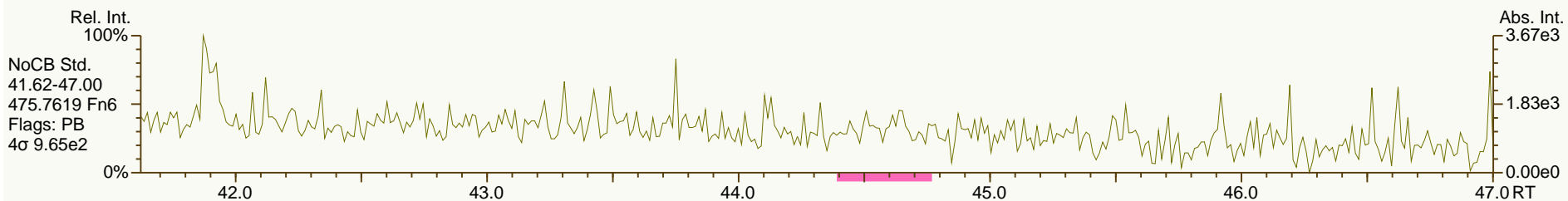
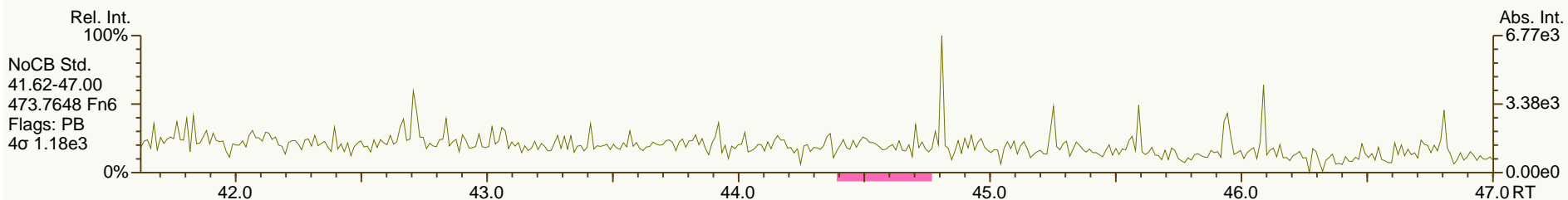
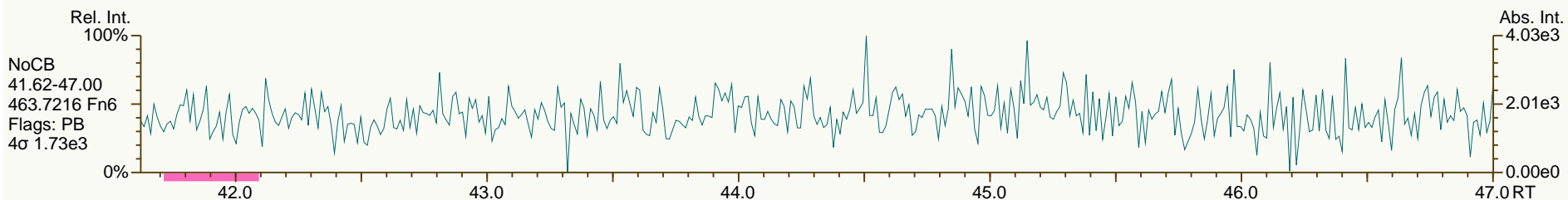
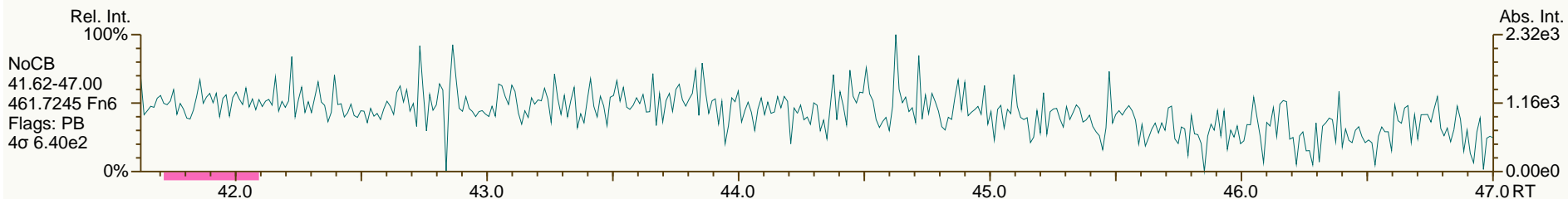
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SGS-AP ID: SBS_130911_PCB_SA
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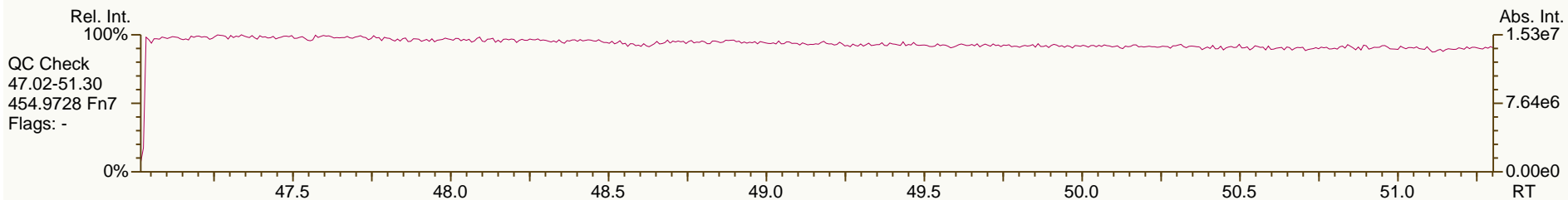
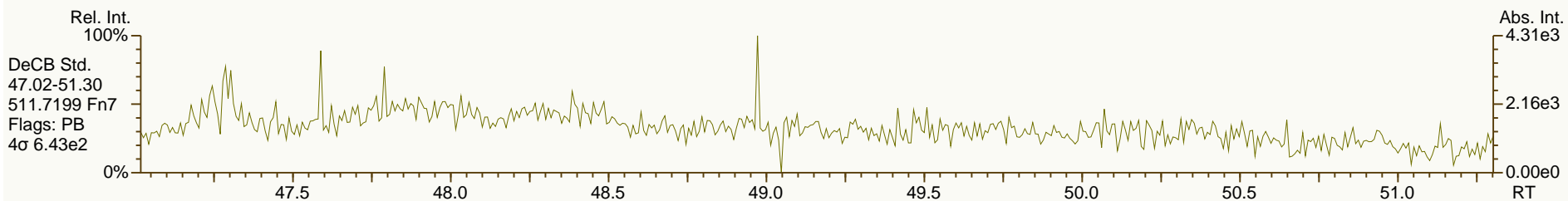
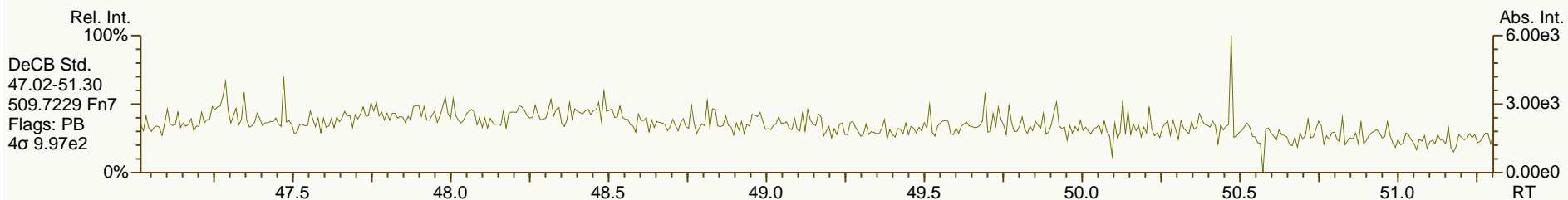
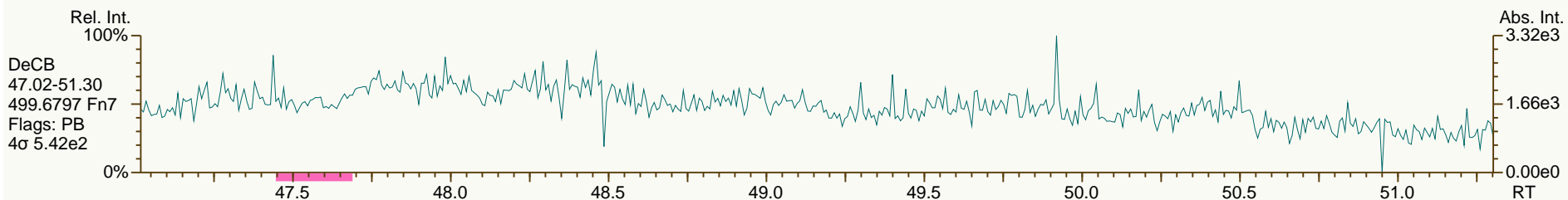
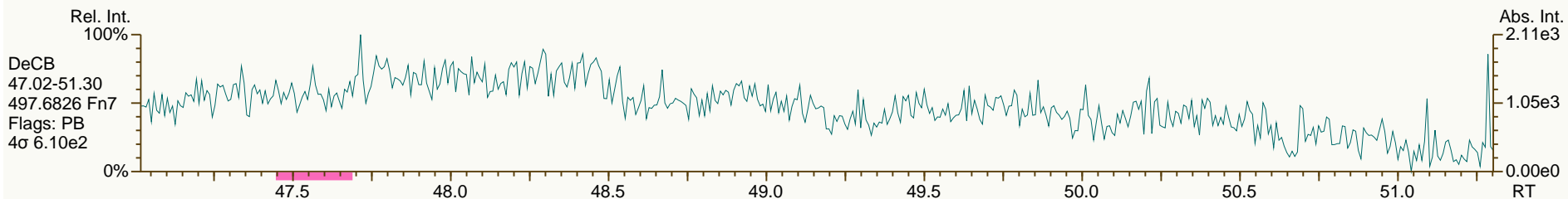
Acq: 11-Sep-2013 12:36:54
 User: CTW Datafile: 130911S02



SGS-AP ID: SBS_130911_PCB_SA
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

Acq: 11-Sep-2013 12:36:54
 User: CTW Datafile: 130911S02



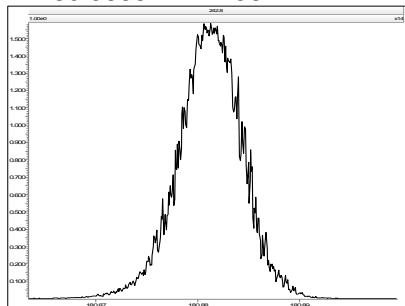
Experiment Calibration Report

MassLynx 4.1

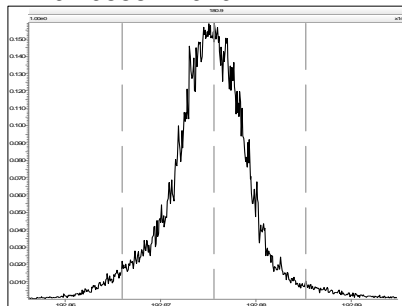
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, September 11, 2013 12:31:07 Eastern Daylight Time

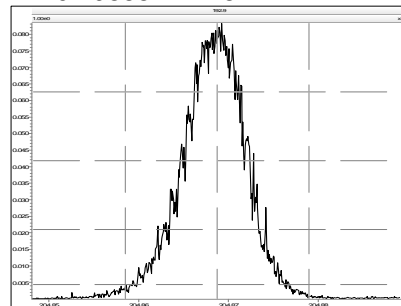
M 180.9888 R 12436



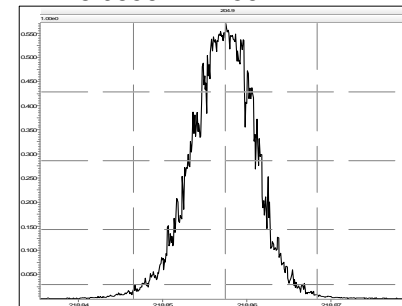
M 192.9888 R 9191



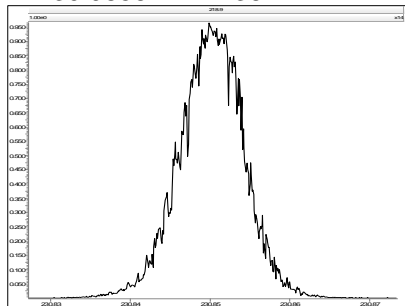
M 204.9888 R 11844



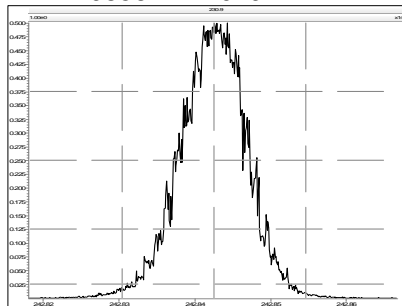
M 218.9856 R 12561



M 230.9856 R 12436



M 242.9856 R 12019



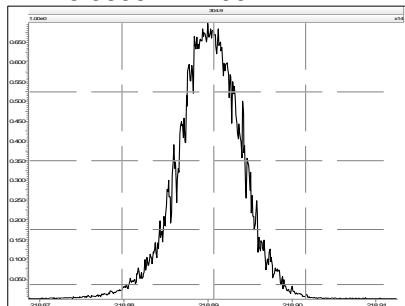
Experiment Calibration Report

MassLynx 4.1

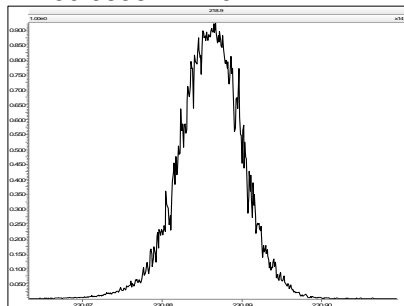
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, September 11, 2013 12:31:27 Eastern Daylight Time

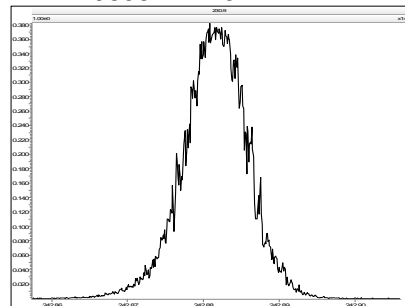
M 218.9856 R 11904



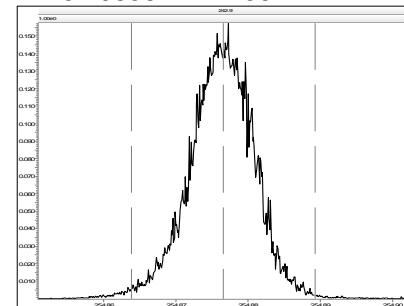
M 230.9856 R 12074



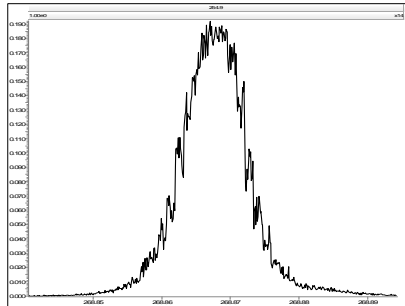
M 242.9856 R 12021



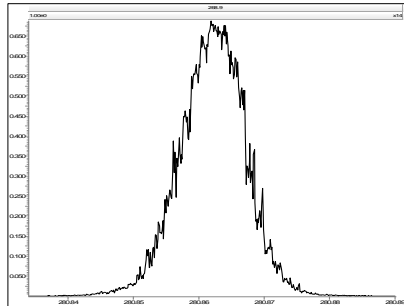
M 254.9856 R 11736



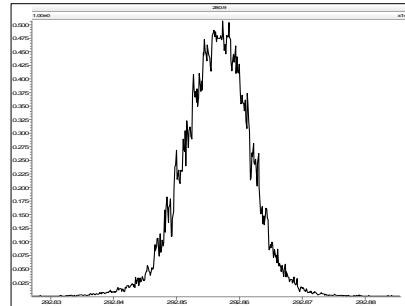
M 268.9824 R 11261



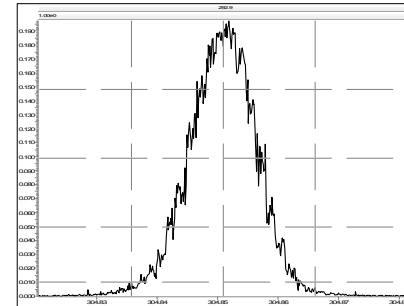
M 280.9824 R 12023



M 292.9824 R 11787



M 304.9824 R 11573



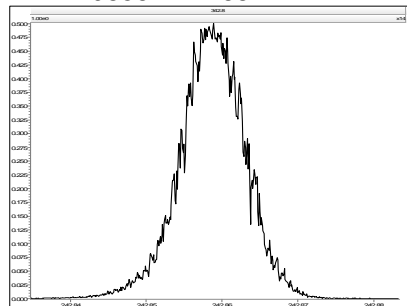
Experiment Calibration Report

MassLynx 4.1

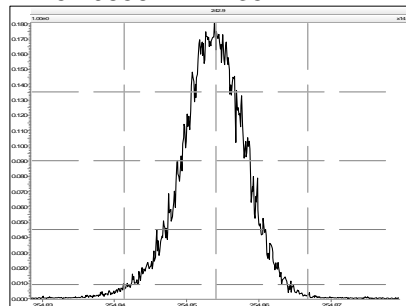
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, September 11, 2013 12:31:50 Eastern Daylight Time

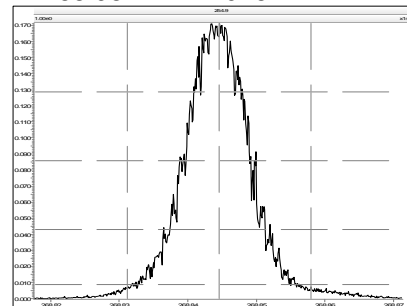
M 242.9856 R 11682



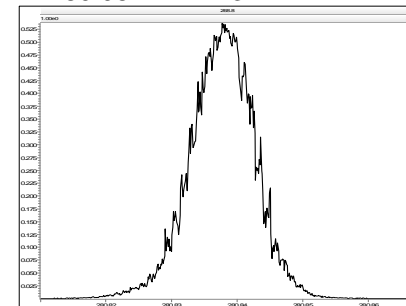
M 254.9856 R 11735



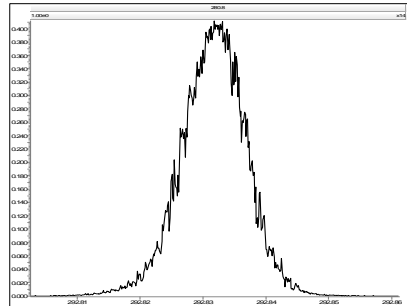
M 268.9824 R 12076



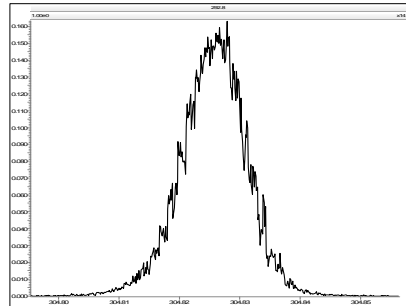
M 280.9824 R 12372



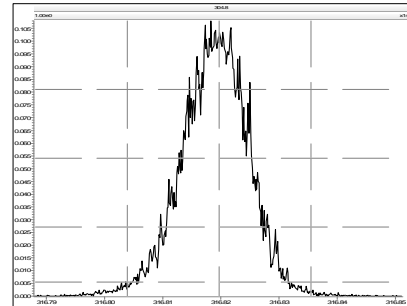
M 292.9824 R 12370



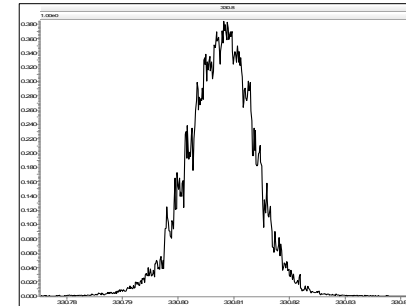
M 304.9824 R 11902



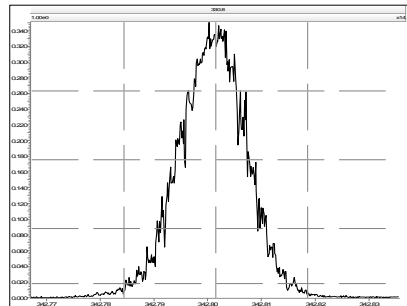
M 316.9824 R 12079



M 330.9792 R 11627



M 342.9792 R 11959



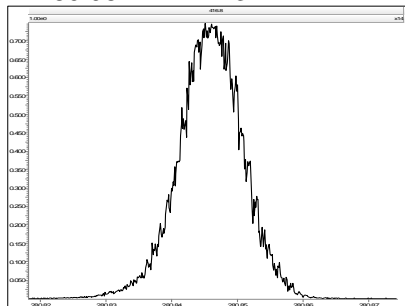
Experiment Calibration Report

MassLynx 4.1

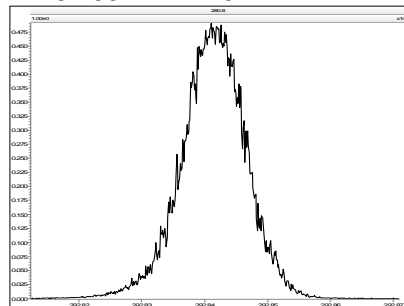
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, September 11, 2013 12:32:20 Eastern Daylight Time

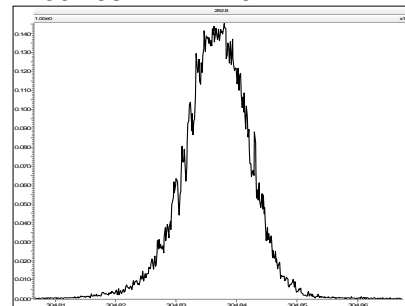
M 280.9824 R 12132



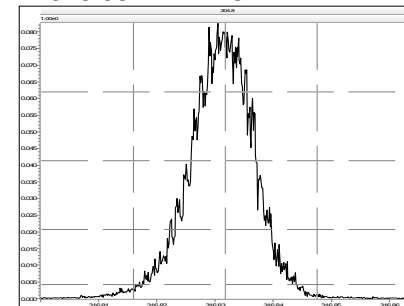
M 292.9824 R 12072



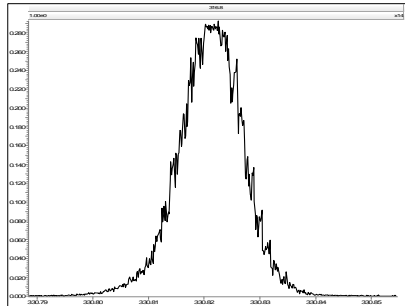
M 304.9824 R 11791



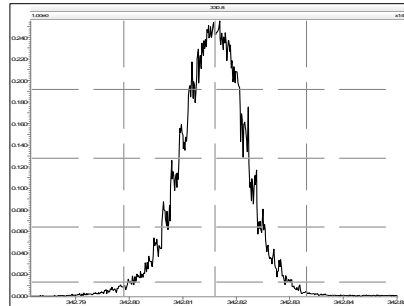
M 316.9824 R 11844



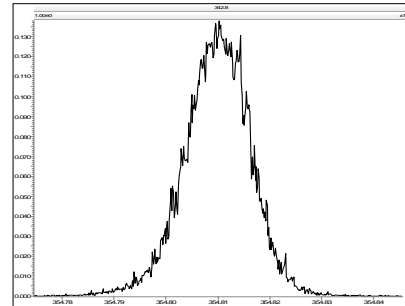
M 330.9792 R 12077



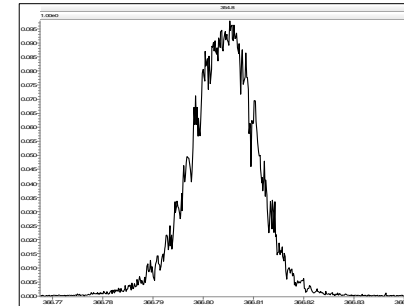
M 342.9792 R 12193



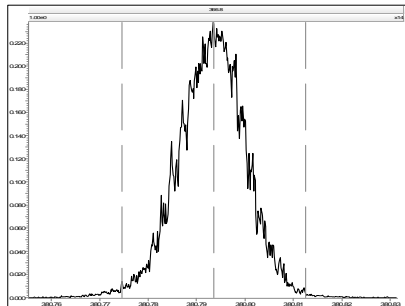
M 354.9792 R 11849



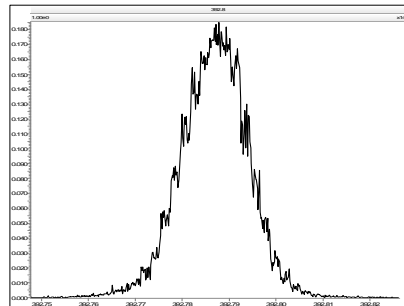
M 366.9792 R 12259



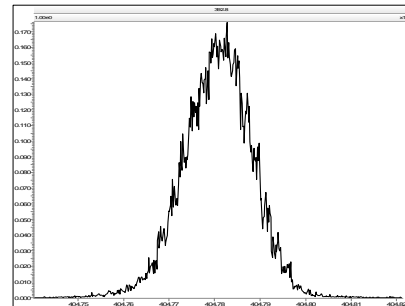
M 380.9760 R 11846



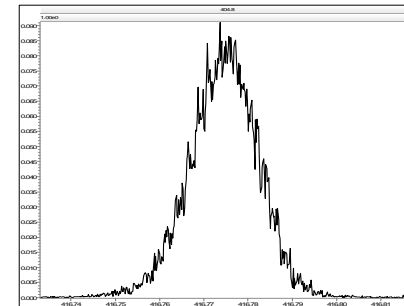
M 392.9760 R 12316



M 404.9760 R 11685



M 416.9760 R 12137



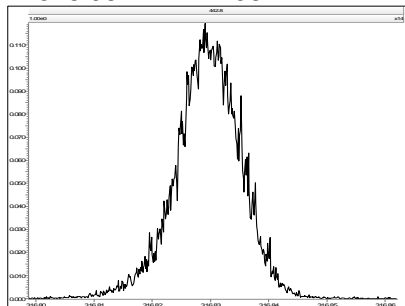
Experiment Calibration Report

MassLynx 4.1

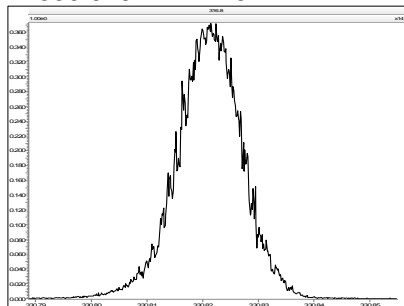
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, September 11, 2013 12:32:50 Eastern Daylight Time

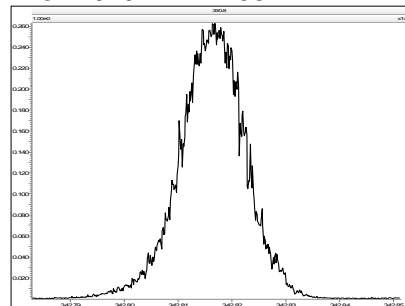
M 316.9824 R 12138



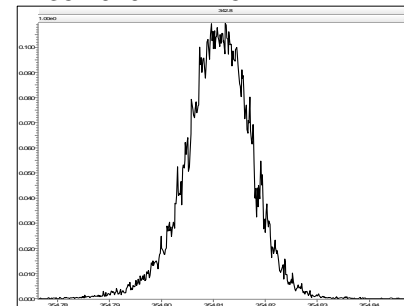
M 330.9792 R 11737



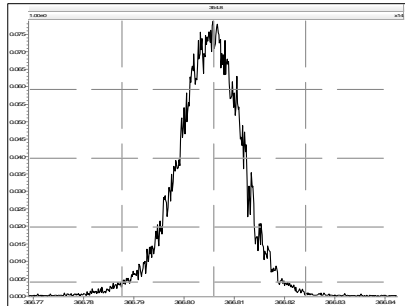
M 342.9792 R 11796



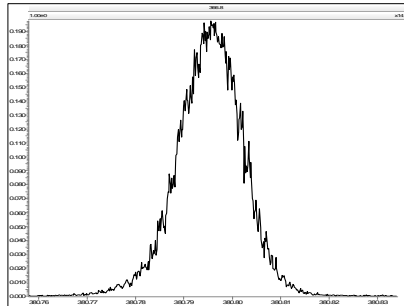
M 354.9792 R 11517



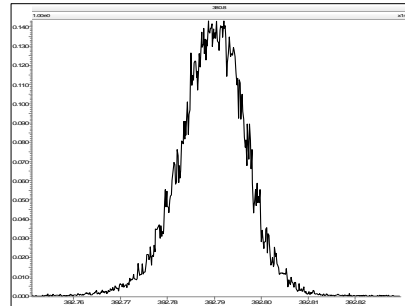
M 366.9792 R 11961



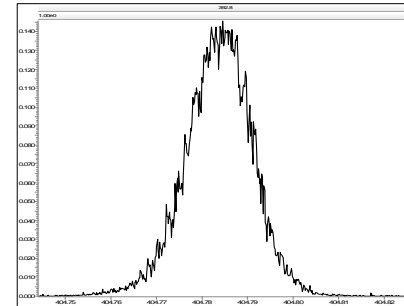
M 380.9760 R 11959



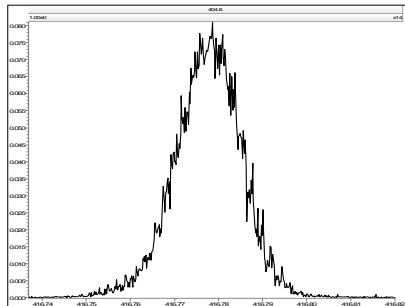
M 392.9760 R 11624



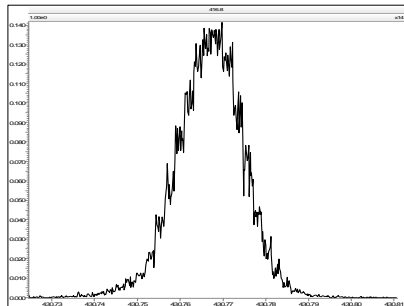
M 404.9760 R 11626



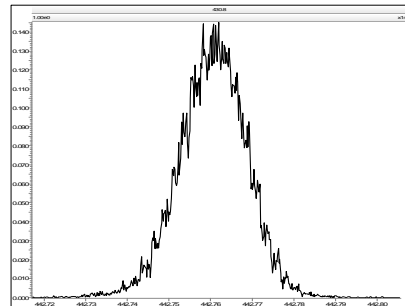
M 416.9760 R 12888



M 430.9728 R 12315



M 442.9728 R 12075



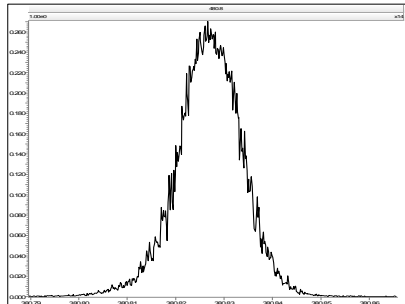
Experiment Calibration Report

MassLynx 4.1

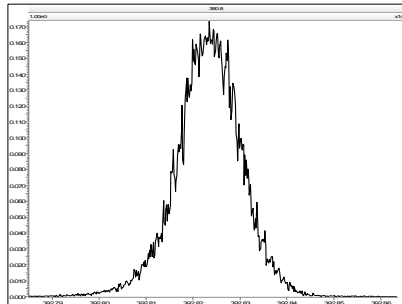
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 6 @ 200 (ppm)

Printed: Wednesday, September 11, 2013 12:33:14 Eastern Daylight Time

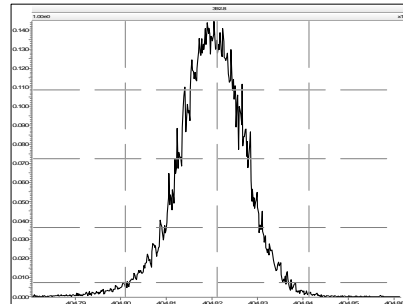
M 380.9760 R 12253



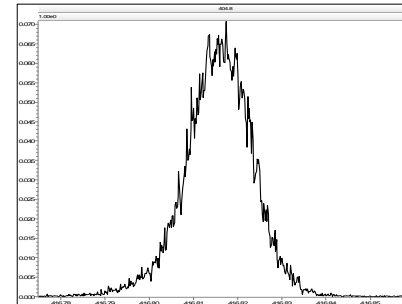
M 392.9760 R 11906



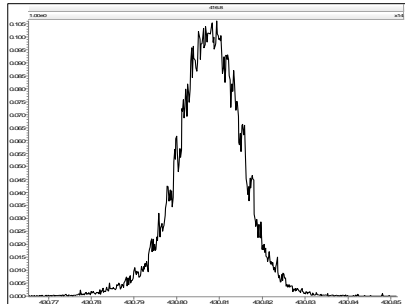
M 404.9760 R 11792



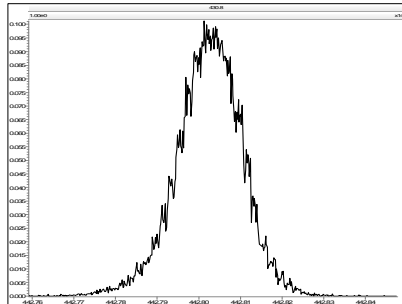
M 416.9760 R 11680



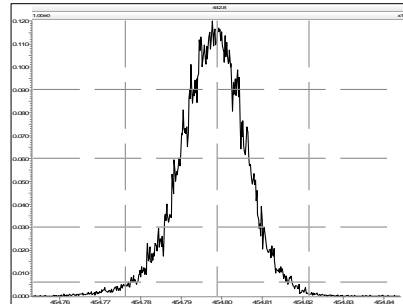
M 430.9728 R 11738



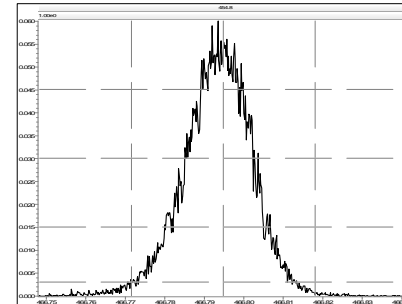
M 442.9728 R 12437



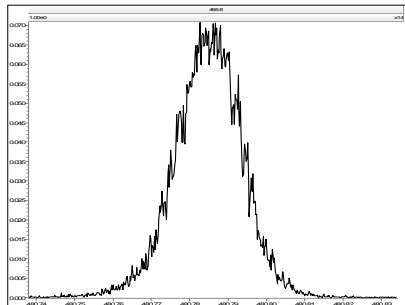
M 454.9728 R 11794



M 466.9728 R 11468



M 480.9696 R 11847



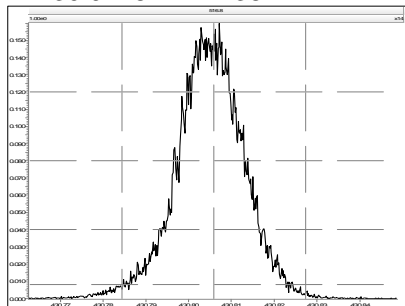
Experiment Calibration Report

MassLynx 4.1

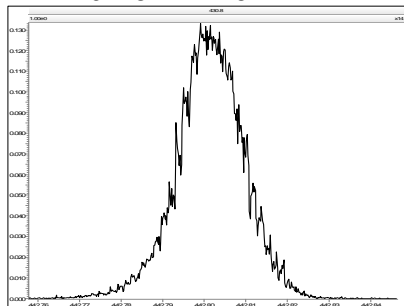
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 7 @ 200 (ppm)

Printed: Wednesday, September 11, 2013 12:33:40 Eastern Daylight Time

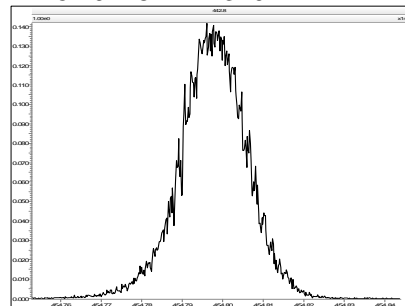
M 430.9728 R 11738



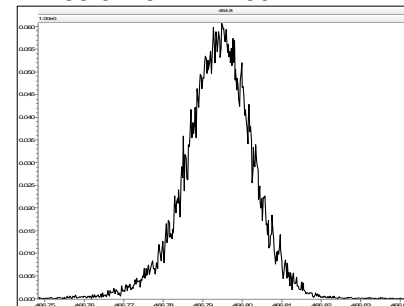
M 442.9728 R 11467



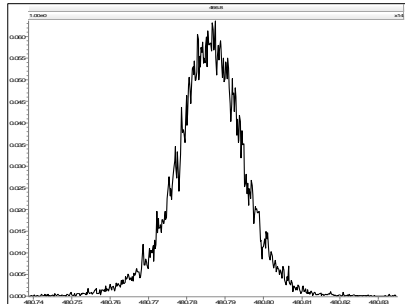
M 454.9728 R 11310



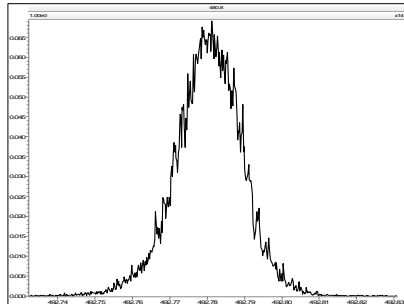
M 466.9728 R 12195



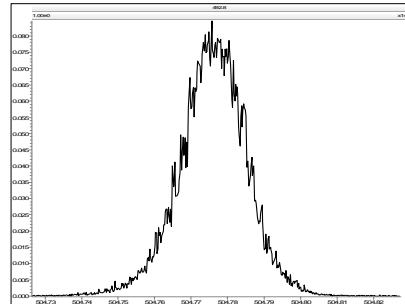
M 480.9696 R 11260



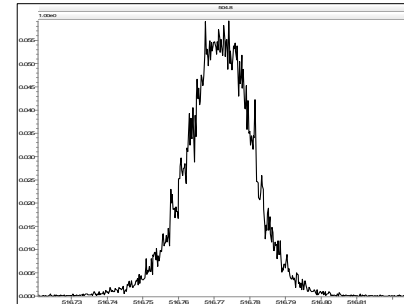
M 492.9696 R 11629



M 504.9696 R 11570



M 516.9697 R 11739

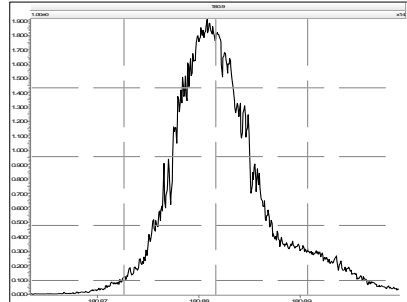


Resolution Check Report

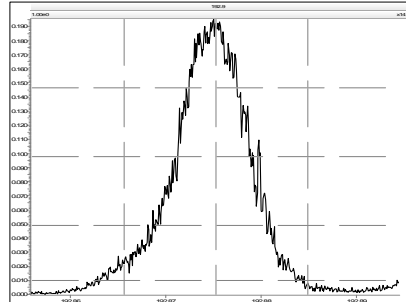
MassLynx 4.1

Printed: Wednesday, September 11, 2013 19:55:58 Eastern Daylight Time

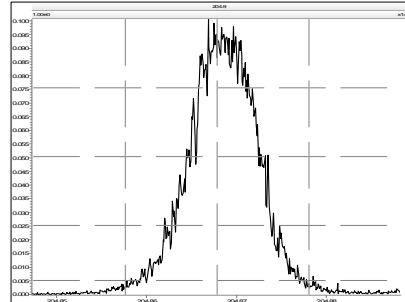
M 180.9888 R 7474



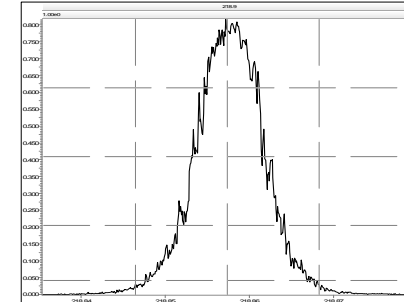
M 192.9888 R 9363



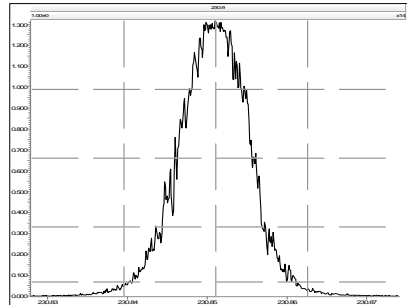
M 204.9888 R 11769



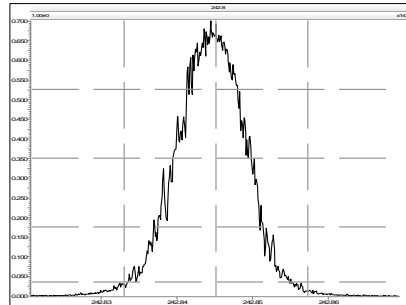
M 218.9856 R 11468



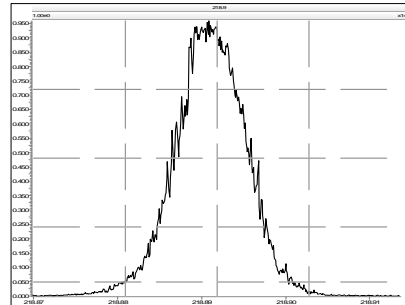
M 230.9856 R 11185



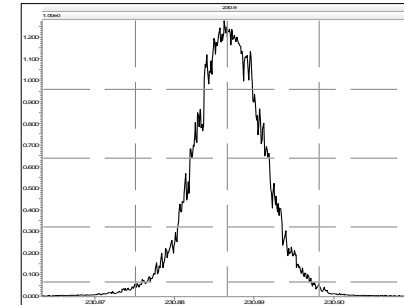
M 242.9856 R 11441



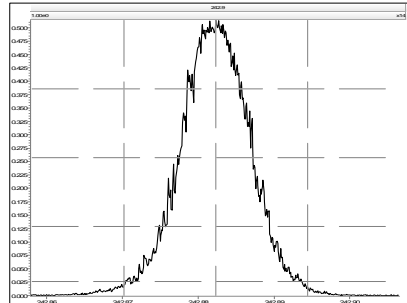
M 218.9856 R 10946



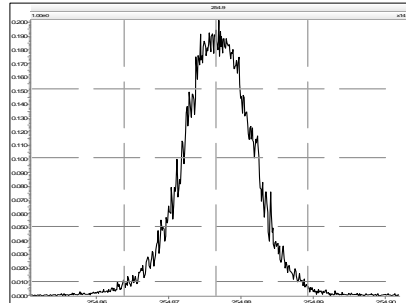
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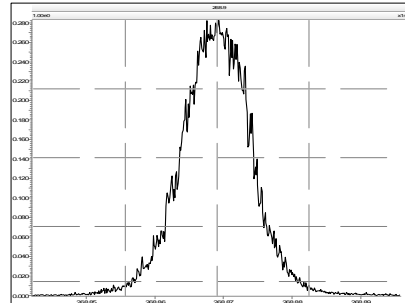
M 242.9856 R 11192



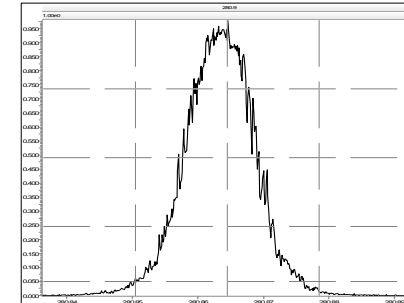
M 254.9856 R 11160



M 268.9824 R 11261



M 280.9824 R 11118

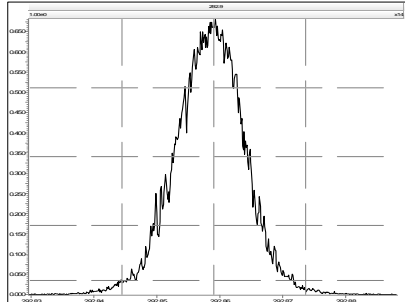


Resolution Check Report

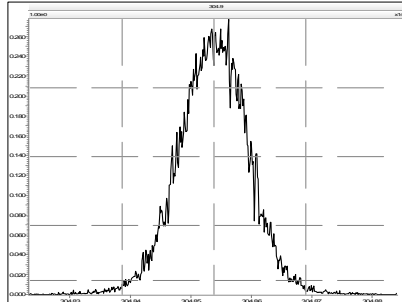
MassLynx 4.1

Printed: Wednesday, September 11, 2013 19:55:58 Eastern Daylight Time

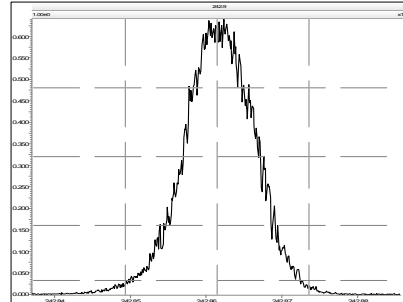
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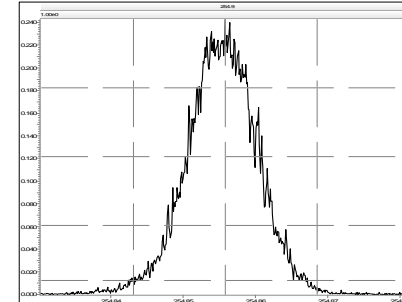
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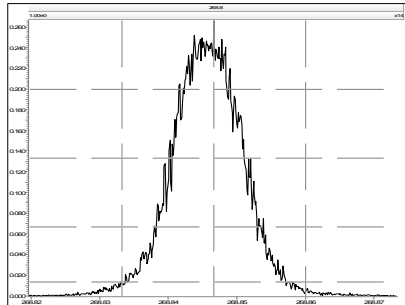
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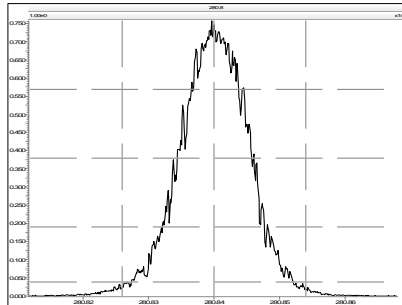
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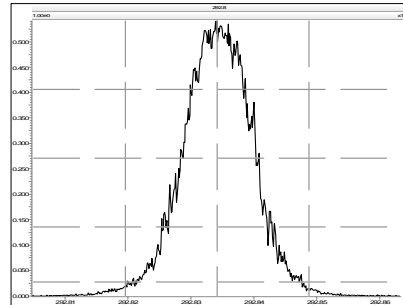
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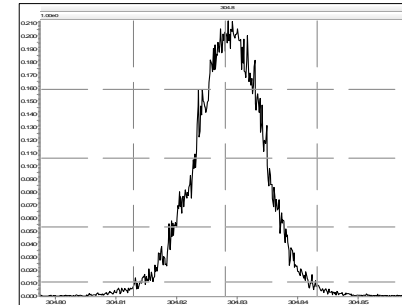
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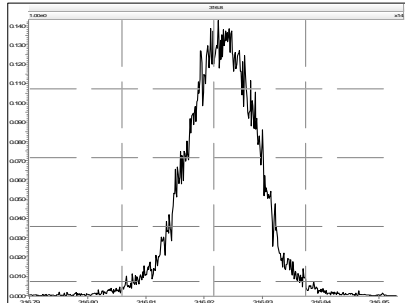
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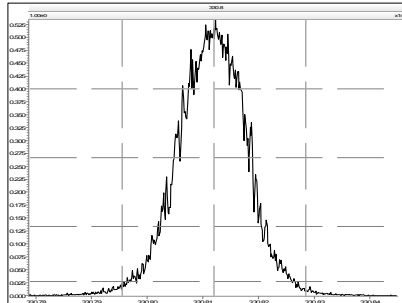
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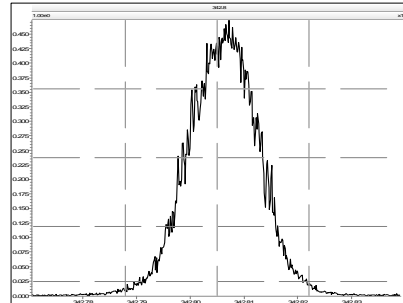
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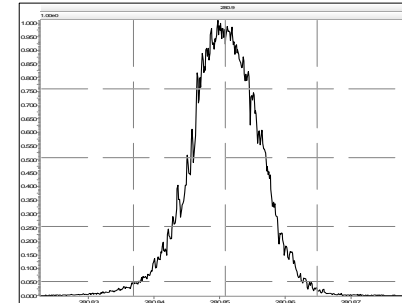
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M 342.9792 R 11363



M 280.9824 R 11087

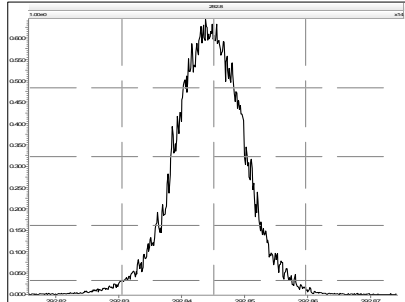


Resolution Check Report

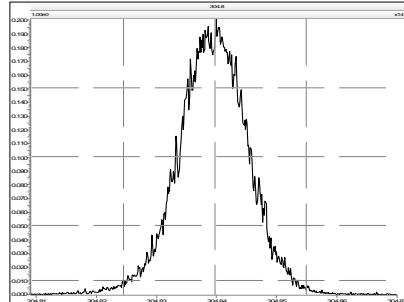
MassLynx 4.1

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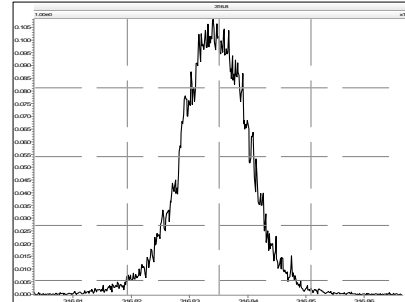
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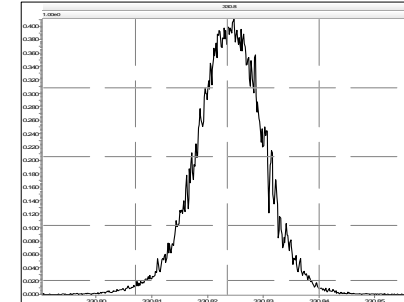
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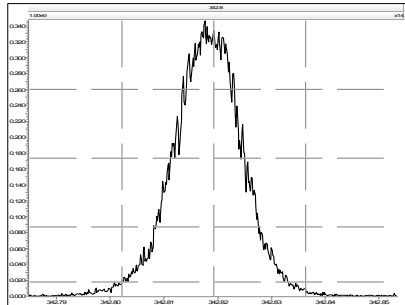
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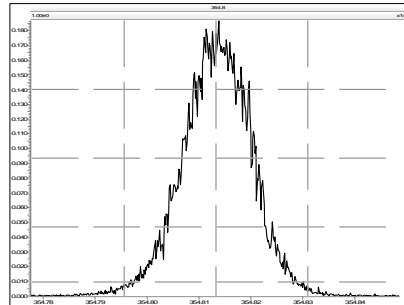
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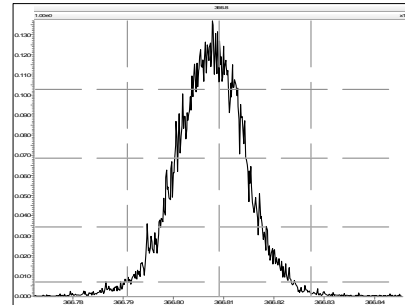
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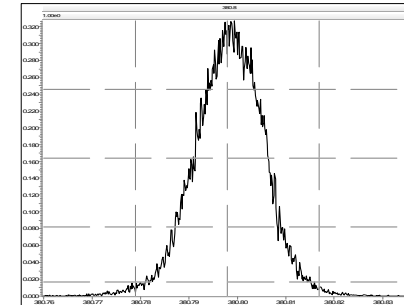
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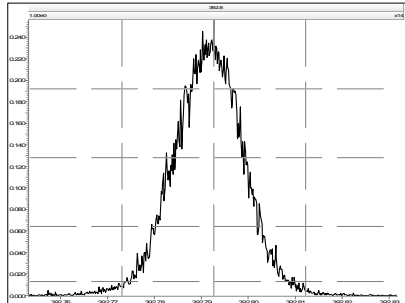
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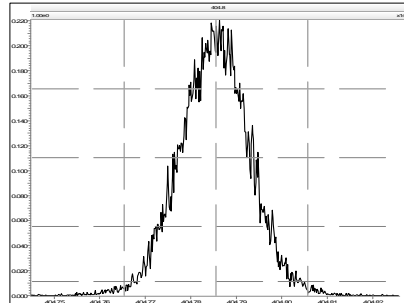
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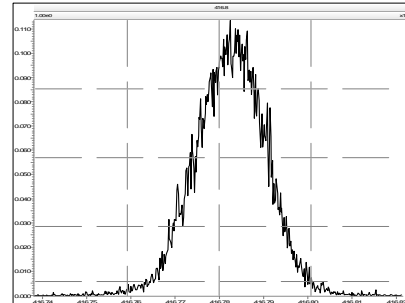
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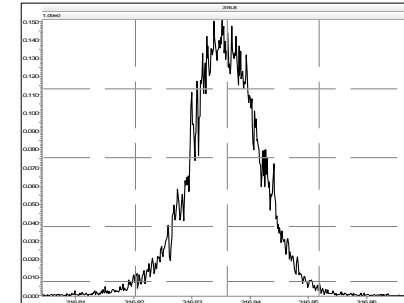
M 404.9760 R 11643



M 416.9760 R 11820



M 316.9824 R 11655

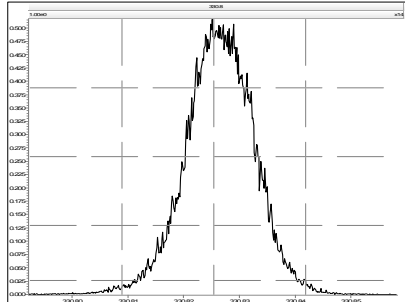


Resolution Check Report

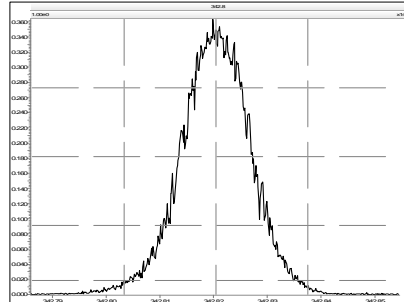
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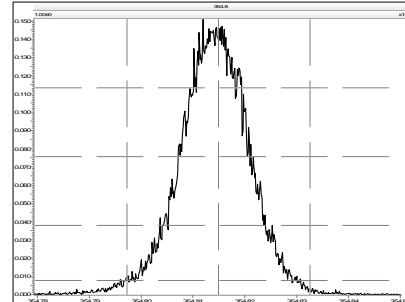
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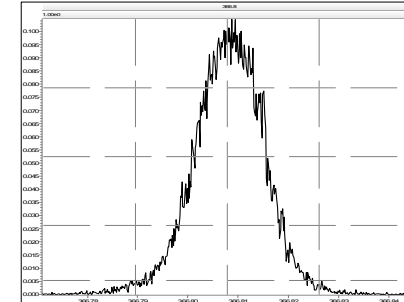
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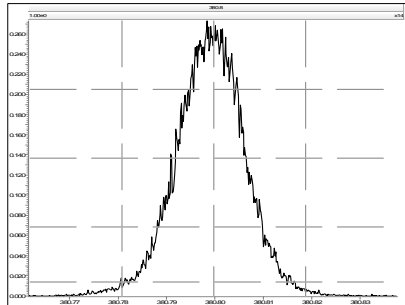
M 354.9792 R 11038



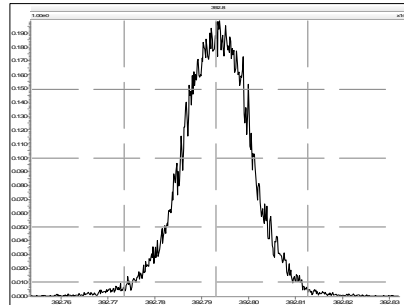
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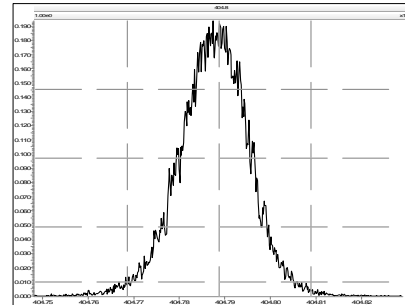
M 380.9760 R 11765



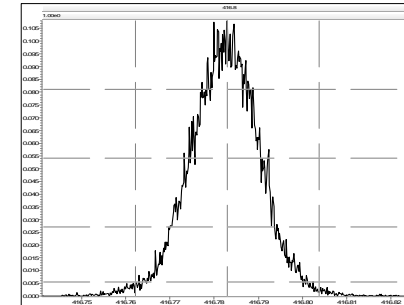
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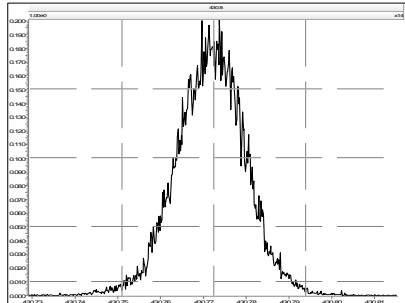
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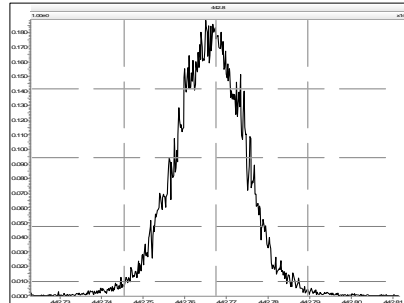
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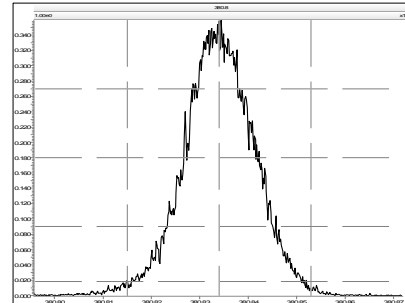
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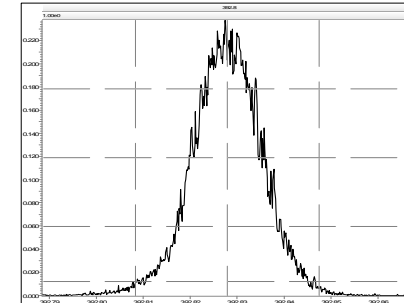
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M 380.9760 R 10753



M 392.9760 R 11235

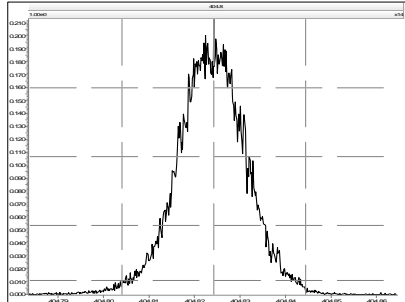


Resolution Check Report

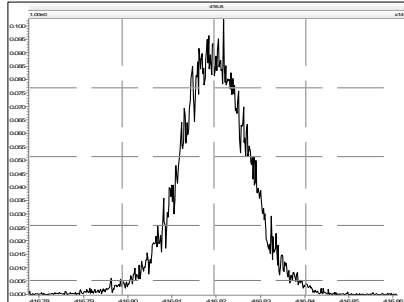
MassLynx 4.1

Printed: Wednesday, September 11, 2013 19:55:58 Eastern Daylight Time

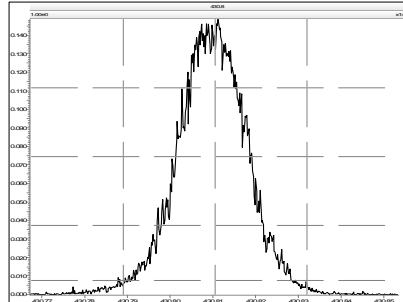
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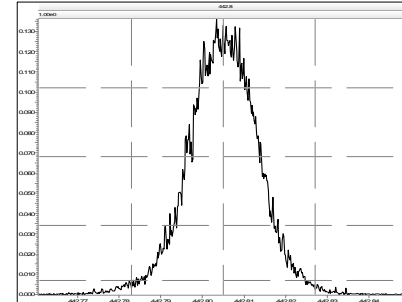
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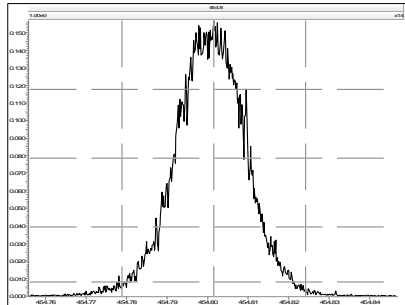
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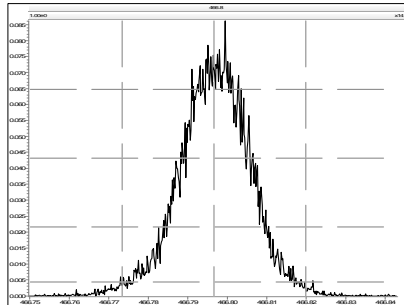
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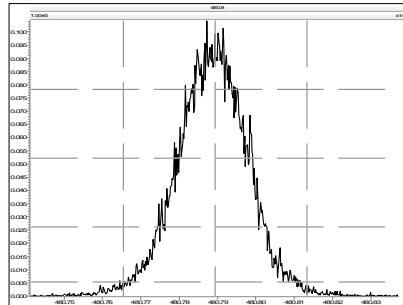
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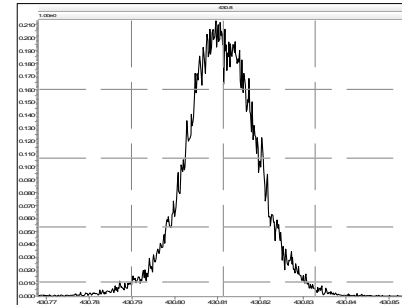
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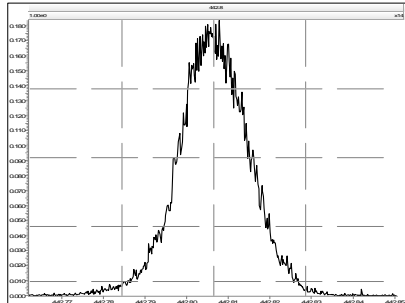
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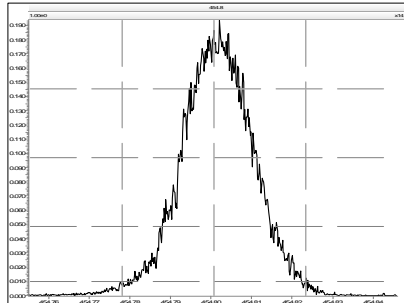
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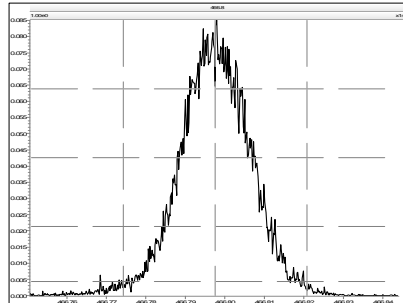
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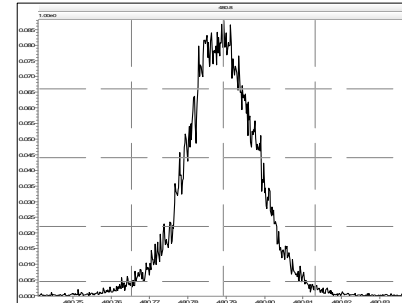
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M 466.9728 R 11476



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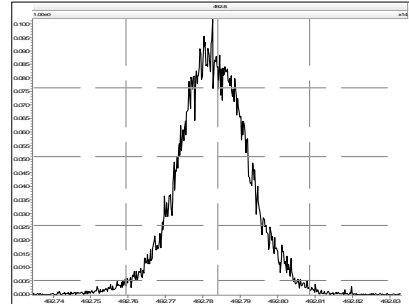


Resolution Check Report

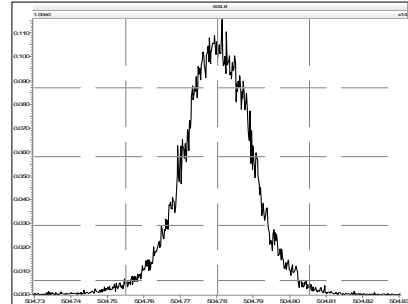
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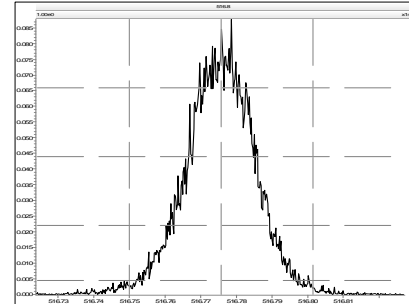
M 492.9696 R 11214



M 504.9696 R 10990



M 516.9697 R 11737



METHOD 1668A

PCB ONGOING PRECISION AND RECOVERY (OPR)

FORM 8A

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM4_PCB_07122013_11SEP2013
 Instrument ID: MM4 GC Column ID:
 VER Data Filename: 131014S04 Analysis Date: 14-OCT-2013 15:57:48
 Lab ID: OPR1_11361_PCB-RJ

NATIVE ANALYTES	SPIKE CONC.	RECOVERY	RANGE (%)	OK
PCB-1 2-MoCB	50	91	50 - 150	Y
PCB-3 4-MoCB	50	92.3	50 - 150	Y
PCB-4 22'-DiCB	50	83.1	50 - 150	Y
PCB-15 44'-DiCB	50	84.5	50 - 150	Y
PCB-19 22'6'-TrCB	50	89.8	50 - 150	Y
PCB-37 344'-TrCB	50	92.7	50 - 150	Y
PCB-54 22'66'-TeCB	50	87.5	50 - 150	Y
PCB-77 33'44'-TeCB	50	89.4	50 - 150	Y
PCB-81 344'5'-TeCB	50	91.6	50 - 150	Y
PCB-104 22'466'-PeCB	50	83.5	50 - 150	Y
PCB-105 233'44'-PeCB	50	89.9	50 - 150	Y
PCB-114 2344'5'-PeCB	50	88.7	50 - 150	Y
PCB-118 23'44'5'-PeCB	50	91.9	50 - 150	Y
PCB-123 23'44'5'-PeCB	50	95.8	50 - 150	Y
PCB-126 33'44'5'-PeCB	50	87.6	50 - 150	Y
PCB-155 22'44'66'-HxCB	50	90.1	50 - 150	Y
PCB-156/157 ...-HxCB	100	91.3	50 - 150	Y
PCB-167 23'44'55'-HxCB	50	88.6	50 - 150	Y
PCB-169 33'44'55'-HxCB	50	89.4	50 - 150	Y
PCB-188 22'34'566'-HpCB	50	90.2	50 - 150	Y
PCB-189 233'44'55'-HpCB	50	90.6	50 - 150	Y
PCB-202 22'33'55'66'-OcCB	50	87.3	50 - 150	Y
PCB-205 233'44'55'6-OcCB	50	93.5	50 - 150	Y
PCB-206 22'33'44'55'6-NoCB	50	87.8	50 - 150	Y
PCB-208 22'33'455'66'-NoCB	50	88.1	50 - 150	Y
PCB-209 DeCB	50	88.8	50 - 150	Y

Contract-required recovery limits for OPR as specified in Table 6,
 Method 1668A.

REVIEWED

By Todd Vilen at 9:44 am, Oct 16, 2013

Processed: 15 Oct 2013 11:48

Analyst: JJ

METHOD 1668A**PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8B**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM4_PCB_07122013_11SEP2013
 Instrument ID: MM4 GC Column ID:
 VER Data Filename: 131014S04 Analysis Date: 14-OCT-2013 15:57:48
 Lab ID: OPR1_11361_PCB-RJ

LABELED STANDARDS	SPIKE CONC.	RECOVERY	RANGE (%)	OK
ES PCB-1	100	54.6	30 - 140	Y
ES PCB-3	100	65.8	30 - 140	Y
ES PCB-4	100	75.5	30 - 140	Y
ES PCB-15	100	95	30 - 140	Y
ES PCB-19	100	84.1	30 - 140	Y
ES PCB-37	100	91.1	30 - 140	Y
ES PCB-54	100	80.5	30 - 140	Y
ES PCB-77	100	87.5	30 - 140	Y
ES PCB-81	100	87.2	30 - 140	Y
ES PCB-104	100	99.9	30 - 140	Y
ES PCB-105	100	89.9	30 - 140	Y
ES PCB-114	100	91.1	30 - 140	Y
ES PCB-118	100	91.6	30 - 140	Y
ES PCB-123	100	90.1	30 - 140	Y
ES PCB-126	100	85.8	30 - 140	Y
ES PCB-153	100	94.7	30 - 140	Y
ES PCB-155	100	93.7	30 - 140	Y
ES PCB-156/157	200	84.4	30 - 140	Y
ES PCB-167	100	85.9	30 - 140	Y
ES PCB-169	100	81.8	30 - 140	Y
ES PCB-170	100	89	30 - 140	Y
ES PCB-180	100	96.2	30 - 140	Y
ES PCB-188	100	102	30 - 140	Y
ES PCB-189	100	94	30 - 140	Y
ES PCB-202	100	93.9	30 - 140	Y
ES PCB-205	100	88.4	30 - 140	Y
ES PCB-206	100	93.8	30 - 140	Y
ES PCB-208	100	92.8	30 - 140	Y
ES PCB-209	100	88.2	30 - 140	Y
CLEANUP STANDARDS				
CS PCB-28	100	88	40 - 125	Y
CS PCB-111	100	92.1	40 - 125	Y
CS PCB-178	100	103	40 - 125	Y

Processed: 15 Oct 2013 11:48 Analyst: JJ

Lab ID: OPR1_11361_PCB-RJ

ACQ: 14-Oct-2013 15:57:48 CTW

Wt/Vol: 1.00 L

ICAL: MM4_PCB_07122013_11SEP2013 CS3_131014_PCB_SC

Client ID: 0_11361_OPR001

UTP: 15-Oct-2013 11:40 JLJ

J-level: 10 pg/uL Split: 1

Checkcode: 466-088-BXM

Datafile: 131014S04

RPT: 15-Oct-2013 11:48 JJ

StdS (pg): JS: 100 ES: 100 CS/SS: 100

Method HR-PCB

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	29.31		1.0006	1.0007	+0.2	2.33E+07	0.79	1.51	44.7	1.19E+04	0.221
PCB-81 344'5'-TeCB	28.84		1.0006	1.0006	0	2.24E+07	0.78	1.27	45.8	1.19E+04	0.23
PCB-105 233'44'-PeCB	32.26		1.0007	1.0007	0	1.45E+07	0.62	1.00	44.9	5.69E+04	1.75
PCB-114 2344'5'-PeCB	31.72		1.0007	1.0007	0	1.57E+07	0.62	1.06	44.4	5.69E+04	1.6
PCB-118 23'44'5'-PeCB	31.28		1.0008	1.0008	0	1.54E+07	0.61	1.01	46	5.69E+04	1.67
PCB-123 23'44'5'-PeCB	31.00		1.0007	1.0007	0	1.60E+07	0.60	1.06	47.9	5.69E+04	1.65
PCB-126 33'44'5'-PeCB	34.87		1.0006	1.0007	+0.2	1.85E+07	0.63	1.26	43.8	2.92E+03	0.0719
PCB-156/157 ...-HxCB	37.40	C	1.0006	1.0005	-0.2	2.70E+07	1.27	1.06	91.3	2.82E+03	0.138
PCB-167 23'44'55'-HxCB	36.44		1.0006	1.0006	0	1.44E+07	1.27	1.12	44.3	2.82E+03	0.0882
PCB-169 33'44'55'-HxCB	40.13		1.0005	1.0005	0	1.30E+07	1.24	1.09	44.7	2.82E+03	0.0989
PCB-189 233'44'55'-HpCB	42.26		1.0005	1.0005	0	1.62E+07	1.07	1.15	45.3	2.16E+03	0.0636
PCB-209 DeCB	47.22		1.0004	1.0004	0	8.97E+06	1.19	1.03	44.4	1.16E+03	0.0601
ES PCB-1	9.88		0.7193	0.7192	-0.1	2.71E+07	3.23	1.04	54.6 %	30%	140%
ES PCB-3	11.80		0.8589	0.8588	-0.1	3.10E+07	3.22	0.99	65.8 %	30%	140%
ES PCB-4	12.01		0.8744	0.8742	-0.1	2.55E+07	1.55	0.71	75.5 %	30%	140%
ES PCB-15	17.11		1.2450	1.2455	+0.5	4.92E+07	1.62	1.09	95 %	30%	140%
ES PCB-19	14.71		1.0707	1.0707	0	2.36E+07	1.04	0.59	84.1 %	30%	140%
ES PCB-37	23.10		1.0869	1.0870	+0.1	4.44E+07	1.10	1.32	91.1 %	30%	140%
ES PCB-54	17.36		0.8170	0.8167	-0.3	4.02E+07	0.79	1.35	80.5 %	30%	140%
ES PCB-77	29.29		1.3776	1.3784	+1.4	3.46E+07	0.81	1.07	87.5 %	30%	140%
ES PCB-81	28.82		1.3554	1.3562	+1.4	3.84E+07	0.83	1.19	87.2 %	30%	140%
ES PCB-104	22.05		0.8151	0.8148	-0.4	4.48E+07	1.55	1.62	99.9 %	30%	140%
ES PCB-105	32.24		1.1911	1.1913	+0.4	3.24E+07	1.60	1.30	89.9 %	30%	140%
ES PCB-114	31.70		1.1710	1.1712	+0.4	3.33E+07	1.58	1.32	91.1 %	30%	140%
ES PCB-118	31.25		1.1545	1.1547	+0.4	3.31E+07	1.58	1.30	91.6 %	30%	140%
ES PCB-123	30.98		1.1444	1.1446	+0.4	3.15E+07	1.57	1.26	90.1 %	30%	140%
ES PCB-126	34.85		1.2873	1.2877	+0.8	3.34E+07	1.66	1.41	85.8 %	30%	140%
ES PCB-153	32.83		0.9691	0.9691	0	3.00E+07	1.23	1.15	94.7 %	30%	140%
ES PCB-155	26.87		0.7933	0.7931	-0.3	3.98E+07	1.25	1.53	93.7 %	30%	140%
ES PCB-156/157	37.38		1.1035	1.1036	+0.2	5.56E+07	1.26	1.19	84.4 %	30%	140%
ES PCB-167	36.41		1.0749	1.0750	+0.2	2.92E+07	1.27	1.22	85.9 %	30%	140%
ES PCB-169	40.11		1.1838	1.1840	+0.5	2.68E+07	1.26	1.18	81.8 %	30%	140%
ES PCB-170	39.61		0.9003	0.9002	-0.2	2.18E+07	1.06	1.22	89 %	30%	140%
ES PCB-180	38.55		0.8763	0.8762	-0.2	2.62E+07	1.04	1.41	96.2 %	30%	140%
ES PCB-188	31.69		0.7204	0.7202	-0.4	4.82E+07	1.08	1.71	102 %	30%	140%
ES PCB-189	42.24		0.9599	0.9599	0	3.11E+07	1.07	1.84	94 %	30%	140%
ES PCB-202	36.21		0.8231	0.8230	-0.2	3.69E+07	0.90	1.42	93.9 %	30%	140%
ES PCB-205	44.40		1.0090	1.0090	0	1.99E+07	0.91	1.25	88.4 %	30%	140%
ES PCB-206	45.86		1.0422	1.0422	0	2.09E+07	0.77	1.24	93.8 %	30%	140%
ES PCB-208	41.83		0.9507	0.9506	-0.3	2.37E+07	0.78	1.42	92.8 %	30%	140%
ES PCB-209	47.20		1.0727	1.0728	+0.3	1.95E+07	1.17	1.23	88.2 %	30%	140%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	19.70		0.9269	0.9268	-0.1	4.56E+07	1.07	1.06	96.6 %	40%	125%
SS PCB-111	29.33		1.0838	1.0839	+0.2	3.41E+07	1.58	1.06	102 %	40%	125%
SS PCB-178	34.26		1.0114	1.0115	+0.2	2.84E+07	1.06	0.58	101 %	40%	125%
CS PCB-28	19.70		0.9269	0.9268	-0.1	4.56E+07	1.07	1.40	88 %	40%	125%
CS PCB-111	29.33		1.0838	1.0839	+0.2	3.41E+07	1.58	1.34	92.1 %	40%	125%
CS PCB-178	34.26		1.0114	1.0115	+0.2	2.84E+07	1.06	0.99	103 %	40%	125%
JS PCB-9	13.74					4.76E+07	1.64				
JS PCB-52	21.25					3.70E+07	0.76				
JS PCB-101	27.06					2.77E+07	1.60				
JS PCB-138	33.88					2.77E+07	1.26				
JS PCB-194	44.00					1.80E+07	0.93				
			Totals			NON-EMPC		EMPC		DL	
			Mono-CBs			136		136		0.0575	
			Di-CBs			477		477		0.138	
			Tri-CBs			1,040		1,040		0.119	
			Tetra-CBs			1,890		1,890		0.13	
			Penta-CBs			2,100		2,100		1.13	
			Hexa-CBs			1,880		1,880		0.0898	
			Hepta-CBs			1,080		1,080		0.0869	
			Octa-CBs			538		538		0.0671	
			Nona-CBs			133		133		0.0813	
PCB-1 2-MoCB	9.89		1.0011	1.0011	0	1.47E+07	3.19	1.20	45.5	3.62E+03	0.0561
PCB-2 3-MoCB	11.66		0.9877	0.9877	0	1.75E+07	3.18	1.28	44.2	3.62E+03	0.057
PCB-3 4-MoCB	11.81		1.0010	1.0010	0	1.77E+07	3.17	1.24	46.1	3.62E+03	0.0588
PCB-4 22'-DiCB	12.03		1.0012	1.0012	0	1.03E+07	1.51	0.97	41.6	6.94E+03	0.177
PCB-10 26'-DiCB	12.18		1.0138	1.0138	0	1.52E+07	1.54	1.40	42.8	6.94E+03	0.123
PCB-9 25'-DiCB	13.76		1.0011	1.0011	0	1.69E+07	1.56	1.02	33.4	6.89E+03	0.119
PCB-7 24'-DiCB	13.90		1.0114	1.0114	0	1.97E+07	1.56	1.17	34.1	6.89E+03	0.104
PCB-6 23'-DiCB	14.10		1.0264	1.0264	0	1.96E+07	1.58	1.08	36.9	6.89E+03	0.113
PCB-5 23'-DiCB	14.37		1.0455	1.0456	+0.1	2.06E+07	1.56	1.09	38.3	6.89E+03	0.112
PCB-8 24'-DiCB	14.48		1.0535	1.0536	+0.1	2.04E+07	1.57	1.11	37.3	6.89E+03	0.11
PCB-14 35'-DiCB	15.88		0.9280	0.9279	-0.1	2.47E+07	1.54	1.26	39.7	6.89E+03	0.0969
PCB-11 33'-DiCB	16.60		0.9699	0.9698	-0.1	2.37E+07	1.56	1.10	43.9	6.89E+03	0.112
PCB-13/12 34'/34'-DiCB	16.86	C	0.9853	0.9853	0	4.82E+07	1.54	1.12	87.2	6.89E+03	0.109
PCB-15 44'-DiCB	17.13		1.0008	1.0008	0	2.56E+07	1.53	1.23	42.3	6.89E+03	0.0995
PCB-19 22'6-TrCB	14.73		1.0011	1.0011	0	1.03E+07	1.02	0.97	44.9	3.84E+03	0.129
PCB-30/18 246/22'5-TrCB	16.32	C	1.1091	1.1094	+0.3	2.72E+07	1.03	1.24	92.4	3.84E+03	0.101
PCB-17 22'4-TrCB	16.69		1.1342	1.1345	+0.3	1.24E+07	1.03	1.09	48.1	3.84E+03	0.115
PCB-27 23'6-TrCB	16.88		1.1467	1.1470	+0.3	1.73E+07	1.03	1.46	50	3.84E+03	0.0857
PCB-24 236-TrCB	16.99		1.1543	1.1546	+0.3	1.66E+07	1.01	1.39	50.2	3.84E+03	0.0899
PCB-16 22'3-TrCB	17.08		1.1606	1.1609	+0.3	1.07E+07	1.04	0.88	51.7	3.84E+03	0.143

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	17.53		1.1909	1.1913	+0.4	1.90E+07	1.03	1.55	51.7	3.84E+03	0.0807
PCB-34 23'5'-TrCB	18.61		0.8058	0.8055	-0.3	2.09E+07	1.06	1.29	36.4	6.44E+03	0.109
PCB-23 235-TrCB	18.74		0.8114	0.8111	-0.3	2.14E+07	1.06	1.32	36.4	6.44E+03	0.106
PCB-26/29 23'5'/245-TrCB	19.01	C	0.8232	0.8229	-0.3	4.49E+07	1.07	1.34	75.7	6.44E+03	0.105
PCB-25 23'4-TrCB	19.20		0.8313	0.8310	-0.3	2.33E+07	1.07	1.34	39.2	6.44E+03	0.105
PCB-31 24'5-TrCB	19.47		0.8428	0.8426	-0.2	2.40E+07	1.07	1.38	39	6.44E+03	0.102
PCB-28/20 244'/233'-TrCB	19.73	C	0.8542	0.8539	-0.4	4.71E+07	1.07	1.32	80.1	6.44E+03	0.106
PCB-21/33 234/23'4'-TrCB	19.89	C	0.8613	0.8610	-0.4	4.87E+07	1.08	1.35	80.8	6.44E+03	0.104
PCB-22 234'-TrCB	20.25		0.8769	0.8766	-0.4	2.35E+07	1.08	1.25	42.5	6.44E+03	0.113
PCB-36 33'5-TrCB	21.58		0.9344	0.9343	-0.1	2.58E+07	1.07	1.36	42.6	6.44E+03	0.103
PCB-39 34'5-TrCB	21.89		0.9476	0.9476	0	2.69E+07	1.08	1.40	43.2	6.44E+03	0.1
PCB-38 345-TrCB	22.39		0.9688	0.9690	+0.3	2.55E+07	1.07	1.27	45.2	6.44E+03	0.111
PCB-35 33'4-TrCB	22.78		0.9858	0.9858	0	2.52E+07	1.06	1.27	44.8	6.44E+03	0.111
PCB-37 344'-TrCB	23.12		1.0008	1.0008	0	2.64E+07	1.06	1.28	46.4	6.44E+03	0.11
PCB-54 22'66'-TeCB	17.38		1.0011	1.0011	0	1.76E+07	0.78	1.00	43.7	2.48E+03	0.0524
PCB-50/53 22'46/22'56'-TeCB	19.24	C	0.9053	0.9052	-0.1	2.55E+07	0.77	0.87	76.7	2.48E+03	0.0706
PCB-45 22'36-TeCB	19.79		0.9313	0.9311	-0.2	1.18E+07	0.78	0.77	40	2.48E+03	0.0794
PCB-51 22'46'-TeCB	19.86		0.9345	0.9343	-0.2	1.40E+07	0.78	0.87	42	2.48E+03	0.0703
PCB-46 22'36'-TeCB	20.06		0.9439	0.9438	-0.1	1.16E+07	0.78	0.71	42.2	2.48E+03	0.0855
PCB-52 22'55'-TeCB	21.27		1.0010	1.0010	0	1.33E+07	0.77	0.80	43.2	2.48E+03	0.0761
PCB-73 23'5'6-TeCB	21.40		1.0068	1.0068	0	1.84E+07	0.78	1.14	42	2.48E+03	0.0535
PCB-43 22'35-TeCB	21.48		1.0106	1.0105	-0.1	1.13E+07	0.78	0.65	45.4	2.48E+03	0.0946
PCB-69/49 23'46/22'45'-TeCB	21.67	C	1.0193	1.0194	+0.1	3.29E+07	0.77	0.99	86.1	2.48E+03	0.0614
PCB-48 22'45-TeCB	21.93		1.0317	1.0317	0	1.40E+07	0.78	0.82	44.5	2.48E+03	0.0745
PCB-44/47/65 ...-TeCB	22.14	C	1.0414	1.0415	+0.1	4.52E+07	0.77	0.87	135	2.48E+03	0.0703
PCB-59/62/75 ...-TeCB	22.40	C	1.0537	1.0539	+0.3	5.73E+07	0.77	1.11	134	2.48E+03	0.0549
PCB-42 22'34'-TeCB	22.56		1.0615	1.0616	+0.1	1.36E+07	0.78	0.74	47.6	2.48E+03	0.0821
PCB-41 22'34-TeCB	22.88		1.0763	1.0764	+0.1	1.29E+07	0.77	0.72	46.5	2.48E+03	0.0844
PCB-71/40 23'4'6/22'33'-TeCB	22.98	C	1.0811	1.0812	+0.1	3.00E+07	0.78	0.81	95.8	2.48E+03	0.075
PCB-64 234'6-TeCB	23.17		1.0900	1.0902	+0.3	2.11E+07	0.79	1.20	45.9	2.48E+03	0.0511
PCB-72 23'55'-TeCB	23.89		0.8291	0.8288	-0.4	2.33E+07	0.79	1.33	45.8	1.19E+04	0.221
PCB-68 23'45'-TeCB	24.13		0.8375	0.8373	-0.3	2.57E+07	0.79	1.44	46.6	1.19E+04	0.204
PCB-57 233'5-TeCB	24.49		0.8498	0.8496	-0.3	2.31E+07	0.79	1.27	47.2	1.19E+04	0.23
PCB-58 233'5'-TeCB	24.69		0.8567	0.8565	-0.3	2.43E+07	0.79	1.32	47.7	1.19E+04	0.221
PCB-67 23'45-TeCB	24.83		0.8617	0.8615	-0.3	2.42E+07	0.79	1.38	45.6	1.19E+04	0.212
PCB-63 234'5-TeCB	25.05		0.8694	0.8692	-0.3	2.54E+07	0.78	1.44	45.7	1.19E+04	0.203
PCB-61/70/74/76 ...-TeCB	25.33	C	0.8790	0.8788	-0.3	9.26E+07	0.79	1.31	184	1.19E+04	0.224
PCB-66 23'44'-TeCB	25.61		0.8887	0.8885	-0.3	2.28E+07	0.78	1.27	46.7	1.19E+04	0.23
PCB-55 233'4-TeCB	25.75		0.8935	0.8933	-0.3	2.28E+07	0.78	1.27	46.6	1.19E+04	0.23
PCB-56 233'4'-TeCB	26.18		0.9084	0.9082	-0.3	2.20E+07	0.79	1.23	46.7	1.19E+04	0.239
PCB-60 2344'-TeCB	26.36		0.9146	0.9145	-0.2	2.28E+07	0.79	1.28	46.1	1.19E+04	0.228
PCB-80 33'55'-TeCB	26.71		0.9269	0.9268	-0.2	2.57E+07	0.79	1.45	46.2	1.19E+04	0.202
PCB-79 33'45'-TeCB	28.00		0.9715	0.9715	0	2.59E+07	0.77	1.47	45.9	1.19E+04	0.199
PCB-78 33'45-TeCB	28.47		0.9877	0.9877	0	2.20E+07	0.79	1.23	46.4	1.19E+04	0.237
PCB-104 22'466'-PeCB	22.07		1.0010	1.0010	0	1.98E+07	0.62	1.06	41.8	1.89E+03	0.0382
PCB-96 22'366'-PeCB	22.38		1.0151	1.0151	0	1.81E+07	0.62	0.85	47.5	1.89E+03	0.0475
PCB-103 22'45'6-PeCB	24.03		0.8883	0.8881	-0.3	1.18E+07	0.63	0.85	44	5.69E+04	2.06
PCB-94 22'356'-PeCB	24.22		0.8951	0.8950	-0.1	1.09E+07	0.62	0.73	47.3	5.69E+04	2.4

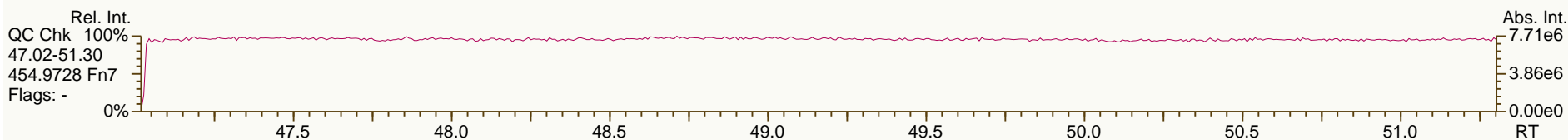
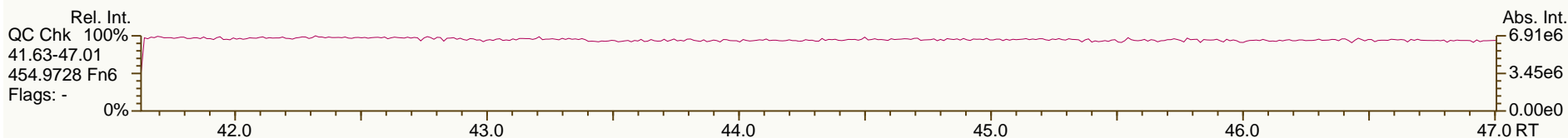
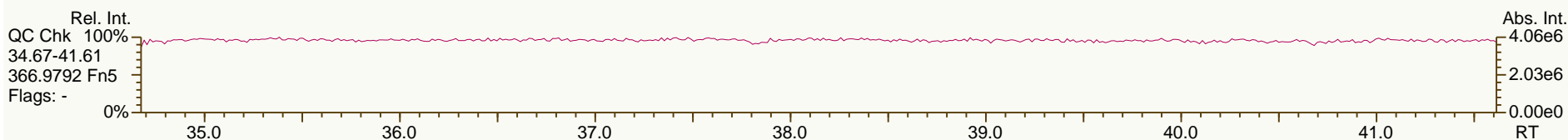
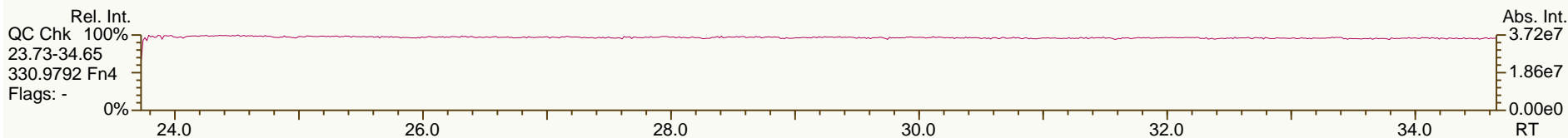
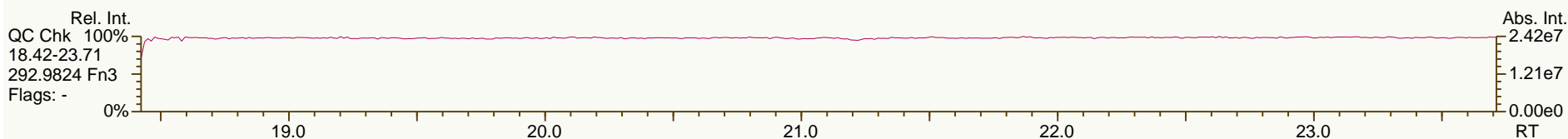
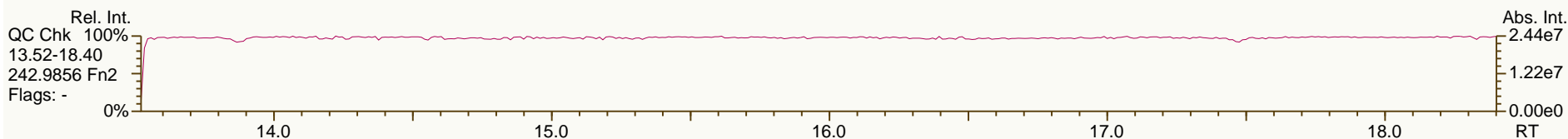
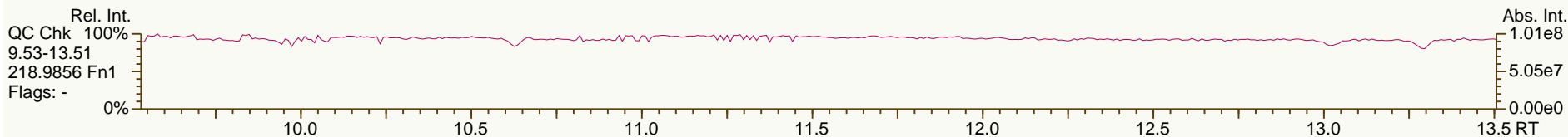
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	24.60		0.9090	0.9088	-0.3	1.17E+07	0.64	0.79	46.9	5.69E+04	2.21
PCB-100/93 22'44'6/22'356-PeCB	24.78	C	0.9159	0.9158	-0.1	2.36E+07	0.63	0.81	92.2	5.69E+04	2.16
PCB-102 22'456'-PeCB	24.90		0.9203	0.9200	-0.4	1.17E+07	0.61	0.96	38.7	5.69E+04	1.83
PCB-98 22'34'6'-PeCB	24.96		0.9226	0.9222	-0.6	1.17E+07	0.62	0.67	55	5.69E+04	2.61
PCB-88 22'346-PeCB	25.25		0.9329	0.9328	-0.2	1.07E+07	0.61	0.71	47.8	5.69E+04	2.48
PCB-91 22'34'6-PeCB	25.32		0.9358	0.9357	-0.2	1.26E+07	0.61	0.90	44.6	5.69E+04	1.95
PCB-84 22'33'6-PeCB	25.51		0.9427	0.9426	-0.2	1.00E+07	0.61	0.68	46.8	5.69E+04	2.58
PCB-89 22'346'-PeCB	25.91		0.9576	0.9575	-0.2	1.04E+07	0.62	0.73	45.4	5.69E+04	2.42
PCB-121 23'45'6-PeCB	26.28		0.9710	0.9709	-0.2	1.54E+07	0.63	1.07	45.4	5.69E+04	1.64
PCB-92 22'355'-PeCB	26.59		0.9826	0.9826	0	1.09E+07	0.63	0.76	45.7	5.69E+04	2.32
PCB-113/90/101 ...-PeCB	27.06	C	1.0000	1.0000	0	3.78E+07	0.63	0.87	137	5.69E+04	2.01
PCB-83 22'33'5-PeCB	27.48		1.0155	1.0156	+0.2	9.82E+06	0.59	0.67	46.6	5.69E+04	2.62
PCB-99 22'44'5-PeCB	27.58		1.0188	1.0189	+0.2	1.18E+07	0.60	0.83	45.3	5.69E+04	2.12
PCB-112 233'56-PeCB	27.67		1.0225	1.0225	0	1.50E+07	0.62	1.04	45.6	5.69E+04	1.69
PCB-108/119/86/97/125...-PeCB	28.01	C	1.0349	1.0350	+0.2	7.68E+07	0.60	0.90	271	5.69E+04	1.95
PCB-117 234'56-PeCB	28.53		1.0541	1.0542	+0.2	1.40E+07	0.62	0.95	46.7	5.69E+04	1.84
PCB-116/85 23456/22'344'-PeCB	28.60	C	1.0568	1.0569	+0.2	2.61E+07	0.63	0.92	90.3	5.69E+04	1.91
PCB-110 233'4'6-PeCB	28.75		1.0620	1.0622	+0.3	1.36E+07	0.62	0.95	45.5	5.69E+04	1.86
PCB-115 2344'6-PeCB	28.81		1.0645	1.0646	+0.2	1.58E+07	0.63	1.09	45.8	5.69E+04	1.61
PCB-82 22'33'4-PeCB	29.01		1.0719	1.0720	+0.2	9.30E+06	0.62	0.65	45.5	5.69E+04	2.71
PCB-111 233'55'-PeCB	29.36		1.0846	1.0847	+0.2	1.53E+07	0.63	1.09	44.8	5.69E+04	1.61
PCB-120 23'455'-PeCB	29.74		1.0989	1.0990	+0.2	1.54E+07	0.62	1.08	45.1	5.69E+04	1.62
PCB-107/124 ...-PeCB	30.69	C	0.9909	0.9909	0	2.83E+07	0.62	1.01	89.4	5.69E+04	1.74
PCB-109 233'46-PeCB	30.90		0.9974	0.9974	0	1.53E+07	0.61	1.09	44.5	5.69E+04	1.61
PCB-106 233'45-PeCB	31.10		1.0039	1.0039	0	1.36E+07	0.60	0.97	44.8	5.69E+04	1.82
PCB-122 233'4'5'-PeCB	31.56		1.0099	1.0099	0	1.33E+07	0.63	0.89	44.8	5.69E+04	1.9
PCB-127 33'455'-PeCB	33.51		1.0394	1.0394	0	1.40E+07	0.62	0.93	46.5	5.69E+04	1.88
PCB-155 22'44'66'-HxCB	26.89		1.0008	1.0008	0	2.01E+07	1.25	1.12	45	1.63E+03	0.0344
PCB-152 22'3566'-HxCB	27.05		1.0068	1.0068	0	1.88E+07	1.25	1.04	45.4	1.63E+03	0.0371
PCB-150 22'34'66'-HxCB	27.19		1.0121	1.0121	0	1.93E+07	1.24	1.04	46.7	1.63E+03	0.0372
PCB-136 22'33'66'-HxCB	27.49		1.0233	1.0234	+0.2	1.80E+07	1.26	0.95	47.5	1.63E+03	0.0405
PCB-145 22'3466'-HxCB	27.75		1.0327	1.0328	+0.2	1.85E+07	1.26	0.98	47.2	1.63E+03	0.0393
PCB-148 22'34'56'-HxCB	29.03		1.0804	1.0805	+0.2	1.40E+07	1.24	1.02	45.7	1.63E+03	0.0521
PCB-151/135 ...-HxCB	29.55	C	1.0996	1.0997	+0.2	2.74E+07	1.26	0.99	92.4	1.63E+03	0.054
PCB-154 22'44'56'-HxCB	29.74		1.1069	1.1070	+0.2	1.52E+07	1.25	1.12	45	1.63E+03	0.0474
PCB-144 22'345'6-HxCB	30.00		1.1166	1.1168	+0.4	1.39E+07	1.23	1.02	45.7	1.63E+03	0.0524
PCB-147/149 ...-HxCB	30.30	C	1.1278	1.1280	+0.4	2.78E+07	1.25	1.04	89.3	1.63E+03	0.0514
PCB-134 22'33'56-HxCB	30.47		1.1341	1.1343	+0.4	1.20E+07	1.25	0.77	51.7	1.63E+03	0.0688
PCB-143 22'3456'-HxCB	30.55		1.1370	1.1372	+0.4	1.26E+07	1.26	0.93	45.2	1.63E+03	0.0573
PCB-139/140 ...-HxCB	30.81	C	1.1465	1.1467	+0.4	2.83E+07	1.26	1.05	89.9	1.63E+03	0.0508
PCB-131 22'33'46-HxCB	30.98		1.1527	1.1529	+0.4	1.23E+07	1.25	0.91	45.4	1.63E+03	0.0588
PCB-142 22'3456-HxCB	31.10		1.1575	1.1577	+0.4	1.26E+07	1.23	0.93	45.2	1.63E+03	0.0574
PCB-132 22'33'46'-HxCB	31.36		1.1670	1.1673	+0.6	1.25E+07	1.27	0.93	44.6	1.63E+03	0.057
PCB-133 22'33'55'-HxCB	31.79		1.1831	1.1834	+0.6	1.30E+07	1.24	0.97	44.8	1.63E+03	0.0549
PCB-165 233'55'6-HxCB	32.13		0.9485	0.9484	-0.2	1.59E+07	1.27	1.18	44.8	1.63E+03	0.0451
PCB-146 22'34'55'-HxCB	32.34		0.9546	0.9546	0	1.46E+07	1.27	1.15	42.5	1.63E+03	0.0465
PCB-161 233'45'6-HxCB	32.45		0.9579	0.9579	0	1.75E+07	1.23	1.31	44.5	1.63E+03	0.0407
PCB-153/168 ...-HxCB	32.87	C	0.9704	0.9704	0	3.35E+07	1.25	1.26	88.8	1.63E+03	0.0424

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	33.02		0.9746	0.9746	0	1.26E+07	1.24	1.01	41.8	1.63E+03	0.0529
PCB-130 22'33'45'-HxCB	33.36		0.9847	0.9847	0	1.17E+07	1.25	0.88	44.1	1.63E+03	0.0604
PCB-137 22'344'5'-HxCB	33.54		0.9903	0.9902	-0.2	1.37E+07	1.25	1.09	41.7	1.63E+03	0.0487
PCB-164 233'4'5'6'-HxCB	33.64		0.9931	0.9931	0	1.62E+07	1.24	1.25	43.4	1.63E+03	0.0427
PCB-163/138/129 ...-HxCB	33.92	C	1.0013	1.0013	0	4.17E+07	1.24	1.07	130	1.63E+03	0.0497
PCB-160 233'456-HxCB	34.04		1.0048	1.0048	0	1.62E+07	1.24	1.21	44.7	1.63E+03	0.044
PCB-158 233'44'6'-HxCB	34.23		1.0104	1.0105	+0.2	1.80E+07	1.24	1.39	43	1.63E+03	0.0383
PCB-128/166 ...-HxCB	34.95	C	0.9598	0.9598	0	2.30E+07	1.24	0.88	89.5	2.82E+03	0.112
PCB-159 233'455'-HxCB	35.80		0.9830	0.9830	0	1.35E+07	1.23	1.04	44.7	2.82E+03	0.0948
PCB-162 233'4'55'-HxCB	36.04		0.9897	0.9896	-0.2	1.38E+07	1.25	1.08	44	2.82E+03	0.0915
PCB-188 22'34'566'-HpCB	31.71		1.0007	1.0007	0	2.11E+07	1.04	0.97	45.1	1.82E+03	0.0383
PCB-179 22'33'566'-HpCB	31.99		1.0096	1.0096	0	1.97E+07	1.03	0.88	46.2	1.82E+03	0.0421
PCB-184 22'344'66'-HpCB	32.44		1.0236	1.0236	0	1.91E+07	1.02	0.85	46.3	1.82E+03	0.0434
PCB-176 22'33'466'-HpCB	32.74		1.0330	1.0330	0	2.11E+07	1.04	0.97	45.3	1.82E+03	0.0383
PCB-186 22'34566'-HpCB	33.12		1.0450	1.0451	+0.2	1.98E+07	1.03	0.89	46.1	1.82E+03	0.0415
PCB-178 22'33'55'6'-HpCB	34.28		1.0818	1.0819	+0.2	1.46E+07	1.03	0.67	45.3	1.82E+03	0.0553
PCB-175 22'33'45'6'-HpCB	34.82		1.0986	1.0987	+0.2	1.16E+07	1.02	0.97	45.5	3.01E+03	0.118
PCB-187 22'34'55'6'-HpCB	35.05		1.1058	1.1060	+0.4	1.19E+07	1.00	1.02	44.6	3.01E+03	0.113
PCB-182 22'344'56'-HpCB	35.22		1.1112	1.1113	+0.2	1.23E+07	1.01	1.05	44.6	3.01E+03	0.109
PCB-183 22'344'5'6'-HpCB	35.56		1.1219	1.1220	+0.2	1.15E+07	1.01	1.03	42.8	3.01E+03	0.112
PCB-185 22'3455'6'-HpCB	35.64		1.1245	1.1246	+0.2	1.23E+07	1.03	1.02	46	3.01E+03	0.113
PCB-174 22'33'456'-HpCB	35.76		1.1283	1.1284	+0.2	1.03E+07	1.02	0.87	44.9	3.01E+03	0.132
PCB-177 22'33'45'6'-HpCB	36.13		1.1398	1.1401	+0.7	1.01E+07	1.03	0.87	44.4	3.01E+03	0.132
PCB-181 22'344'56'-HpCB	36.46		1.1503	1.1505	+0.4	1.14E+07	1.03	1.00	43.8	3.01E+03	0.116
PCB-171/173 ...-HpCB	36.64	C	1.1561	1.1563	+0.4	2.04E+07	1.04	0.88	88.9	3.01E+03	0.132
PCB-172 22'33'455'-HpCB	38.03		0.9004	0.9003	-0.2	1.06E+07	1.01	0.90	44.9	3.01E+03	0.128
PCB-192 233'455'6'-HpCB	38.26		0.9060	0.9060	0	1.34E+07	1.01	1.16	44.2	3.01E+03	0.0994
PCB-180/193 ...-HpCB	38.54	C	0.9127	0.9126	-0.2	2.57E+07	1.02	1.10	89.4	3.01E+03	0.105
PCB-191 233'44'5'6'-HpCB	38.87		0.9203	0.9203	0	1.42E+07	1.04	1.22	44.5	3.01E+03	0.0947
PCB-170 22'33'44'5'-HpCB	39.63		0.9383	0.9383	0	9.85E+06	1.01	0.99	45.9	3.01E+03	0.14
PCB-190 233'44'56'-HpCB	40.07		0.9488	0.9488	0	1.35E+07	1.00	1.35	45.8	3.01E+03	0.102
PCB-202 22'33'55'66'-OoCB	36.23		1.0006	1.0006	0	1.34E+07	0.90	0.83	43.6	1.73E+03	0.0547
PCB-201 22'33'45'66'-OoCB	37.01		1.0220	1.0220	0	1.48E+07	0.89	0.90	44.8	1.73E+03	0.0507
PCB-204 22'344'566'-OoCB	37.57		1.0376	1.0376	0	1.37E+07	0.88	0.84	44.2	1.73E+03	0.0541
PCB-197 22'33'44'66'-OoCB	37.76		1.0429	1.0428	-0.2	1.44E+07	0.86	0.93	42.2	1.73E+03	0.049
PCB-200 22'33'4566'-OoCB	37.85		1.0453	1.0453	0	1.53E+07	0.89	0.86	48.4	1.73E+03	0.053
PCB-198/199 ...-OoCB	40.20	C	1.1101	1.1102	+0.2	2.07E+07	0.88	0.65	86	1.73E+03	0.0696
PCB-196 22'33'44'56'-OoCB	40.77		1.1258	1.1259	+0.2	1.10E+07	0.89	0.67	44.5	1.73E+03	0.0677
PCB-203 22'344'55'6'-OoCB	40.94		1.1303	1.1305	+0.5	1.13E+07	0.87	0.69	44.6	1.73E+03	0.0662
PCB-195 22'33'44'56'-OoCB	42.05		0.9472	0.9471	-0.3	7.65E+06	0.88	0.83	46.2	1.71E+03	0.103
PCB-194 22'33'44'55'-OoCB	44.02		0.9915	0.9915	0	8.26E+06	0.91	0.89	46.6	1.71E+03	0.0964
PCB-205 233'44'55'6'-OoCB	44.41		1.0004	1.0004	0	1.01E+07	0.91	1.08	46.7	1.71E+03	0.0795
PCB-208 22'33'455'66'-NoCB	41.85		1.0005	1.0005	0	1.03E+07	0.79	0.99	44	1.59E+03	0.0687
PCB-207 22'33'44'566'-NoCB	42.63		1.0191	1.0192	+0.3	1.08E+07	0.79	1.01	45.4	1.59E+03	0.0678
PCB-206 22'33'44'55'6'-NoCB	45.88		1.0004	1.0004	0	7.60E+06	0.80	0.83	43.9	1.59E+03	0.0938

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Sample ID: 0_11361_OPR001
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

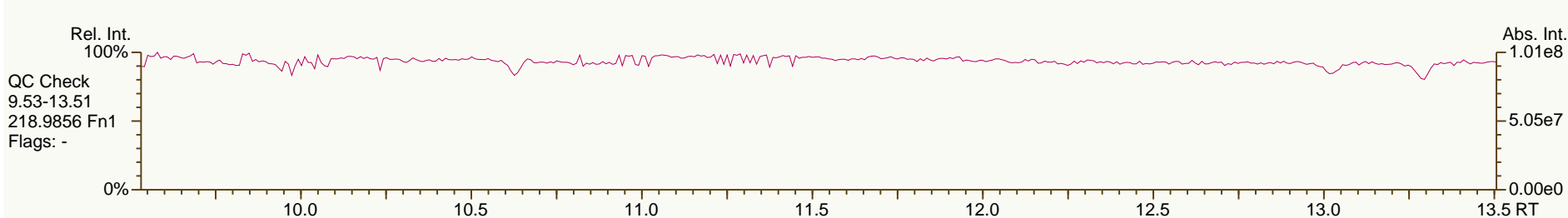
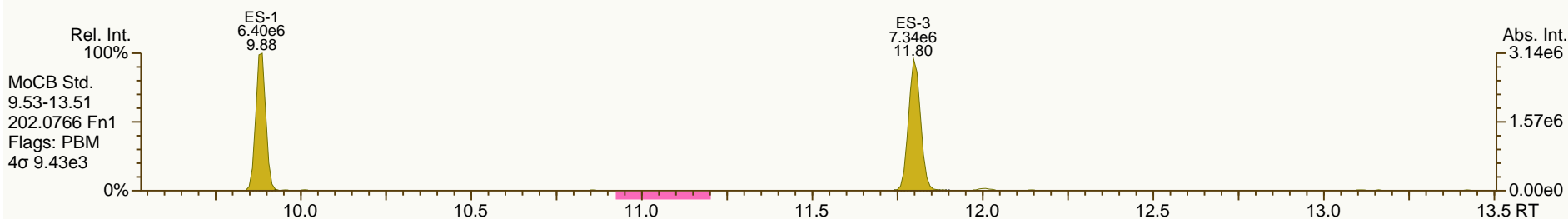
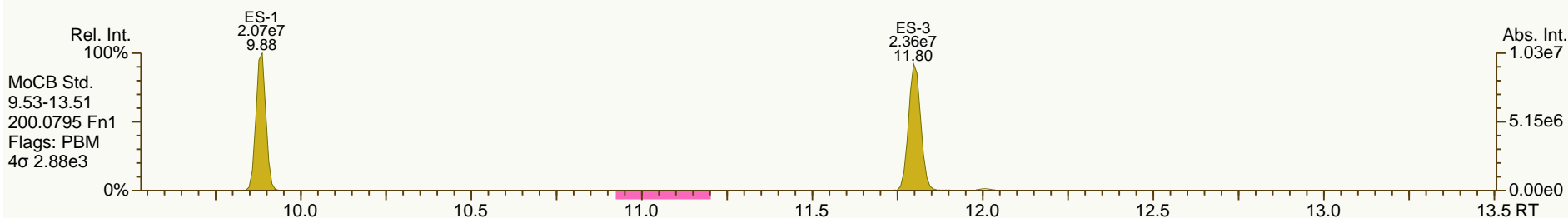
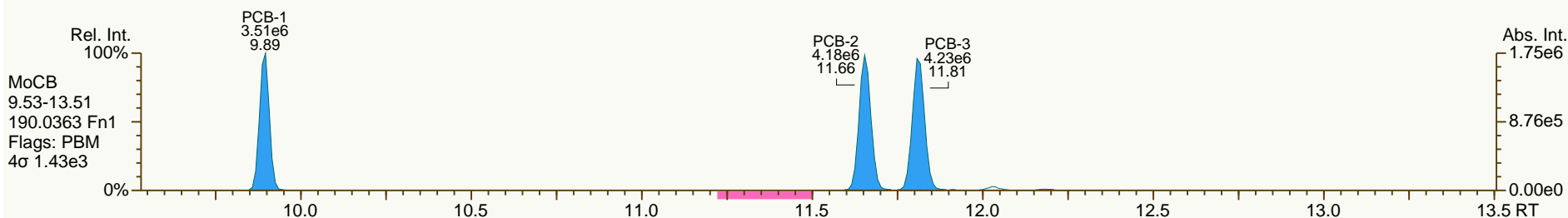
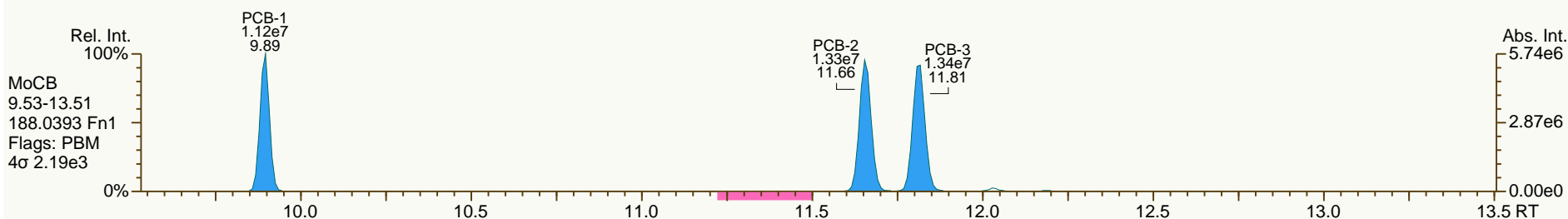
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SGS-AP ID: OPR1_11361_PCB-RJ
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Sample ID: 0_11361_OPR001
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Sample ID: 0_11361_OPR001
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

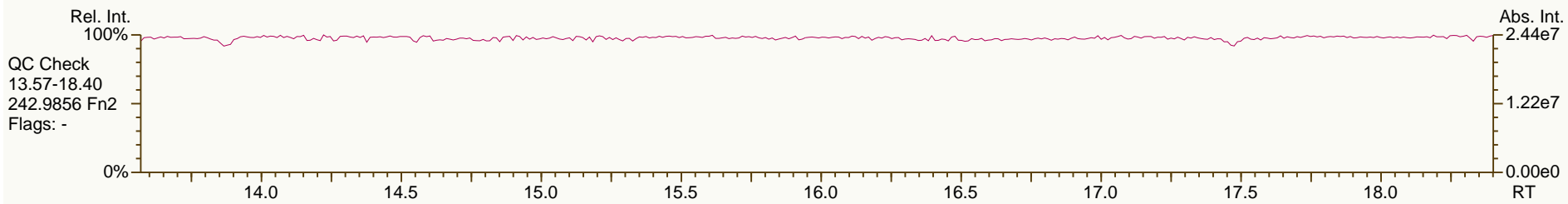
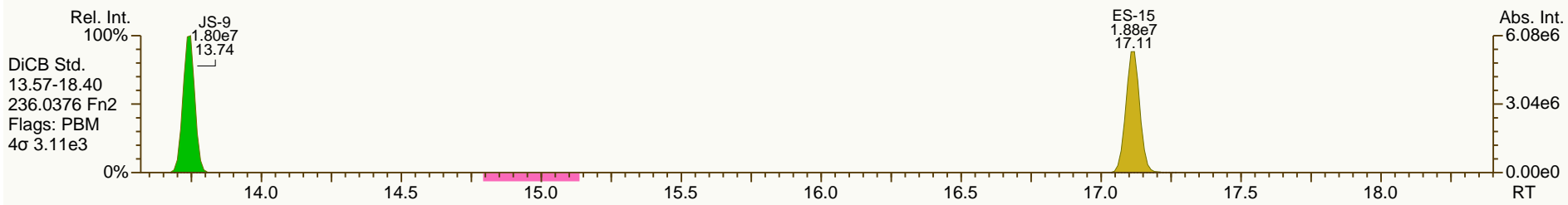
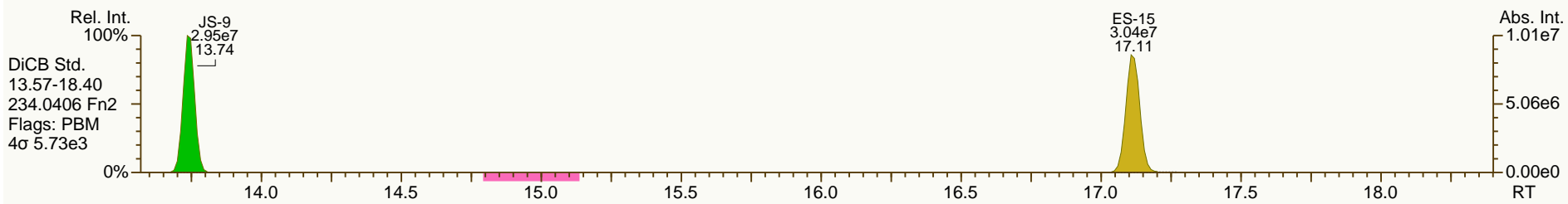
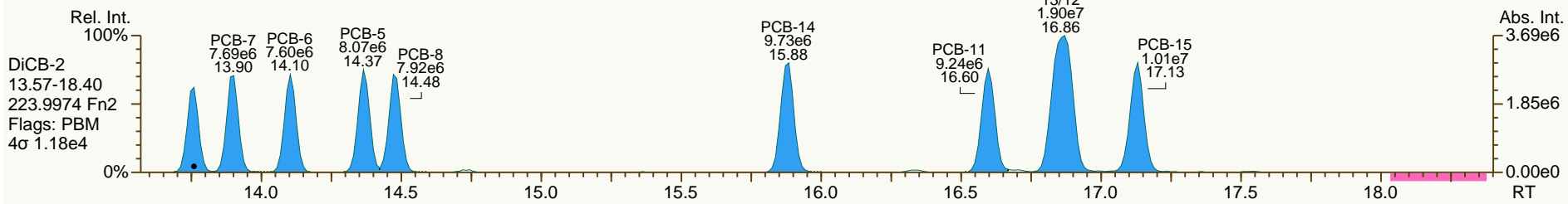
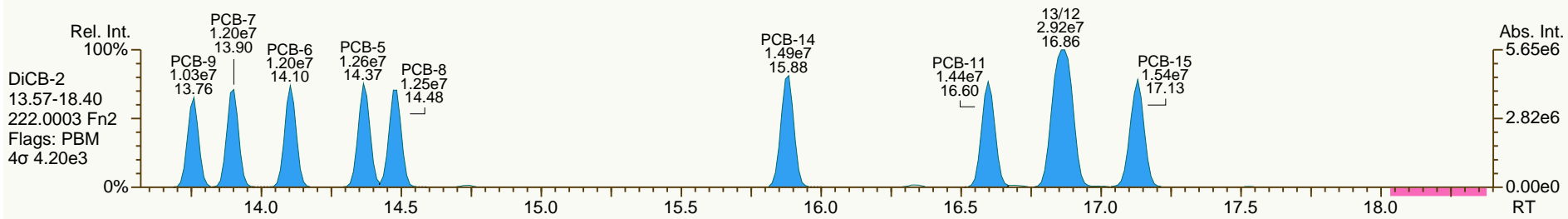
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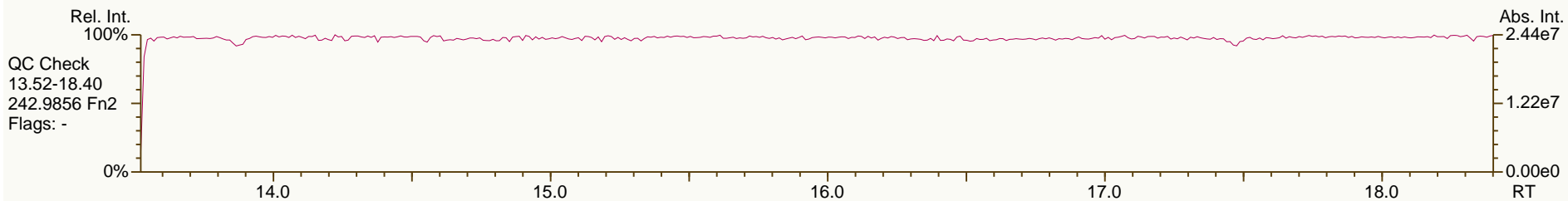
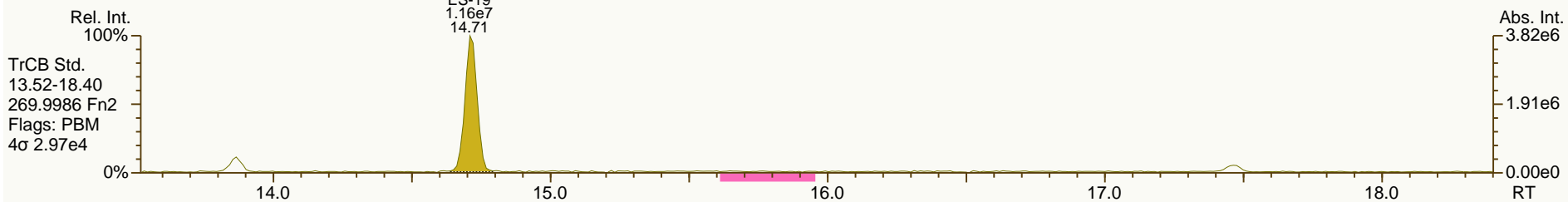
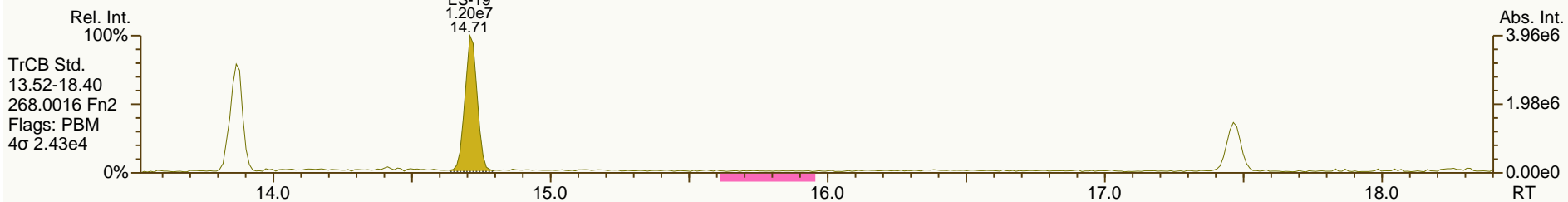
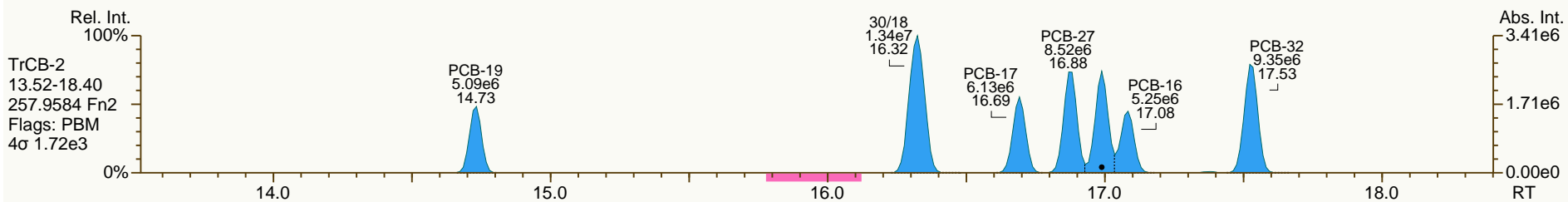
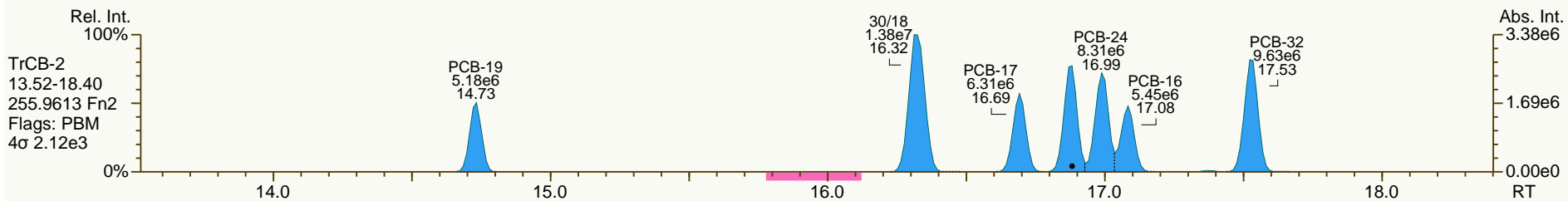
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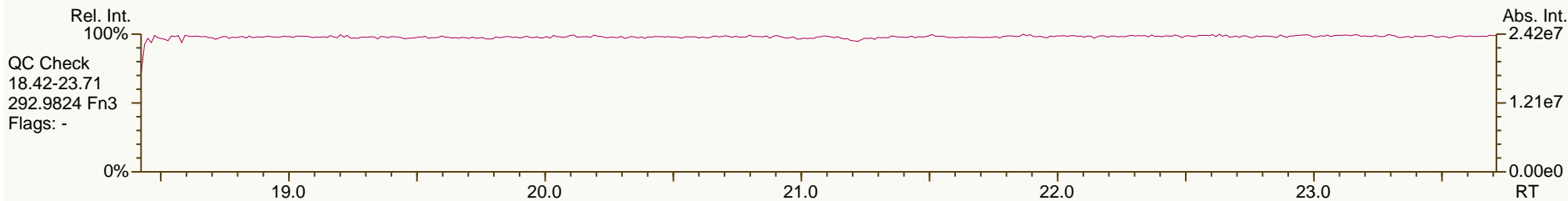
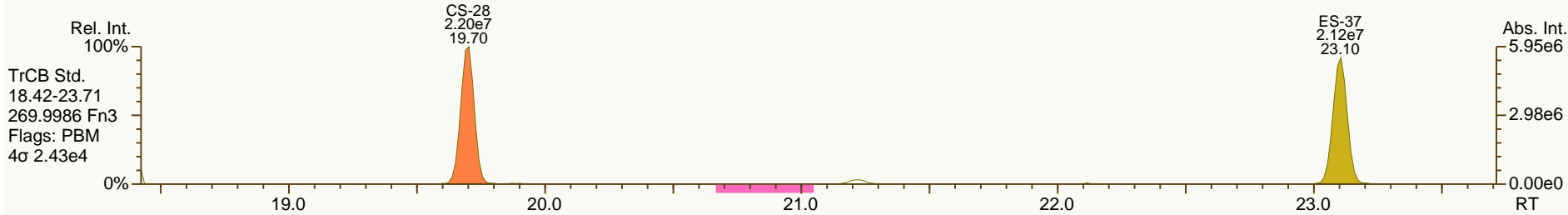
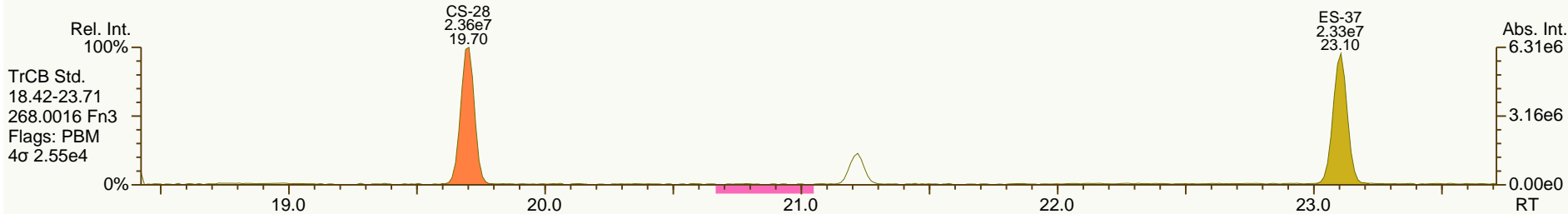
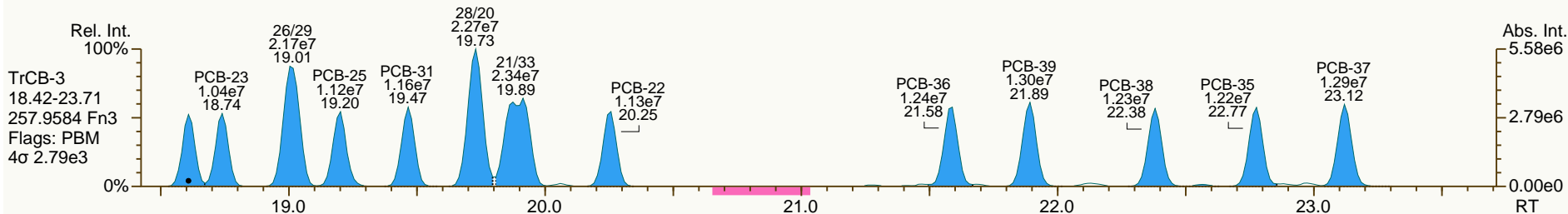
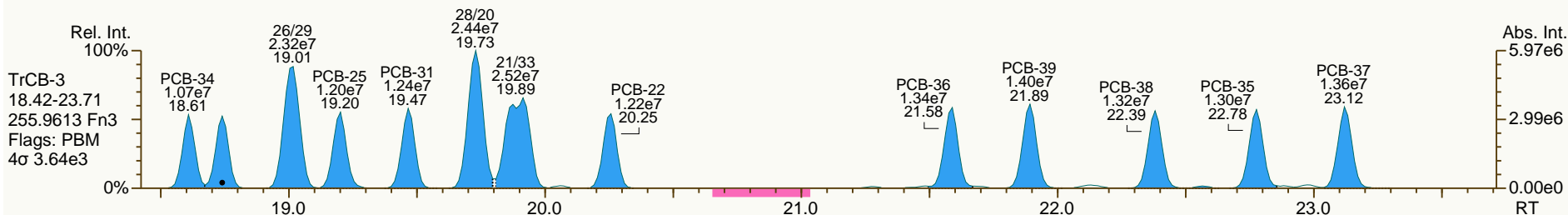
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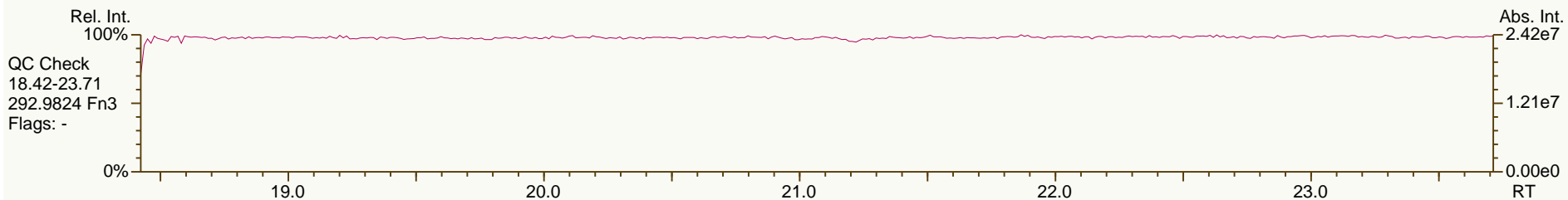
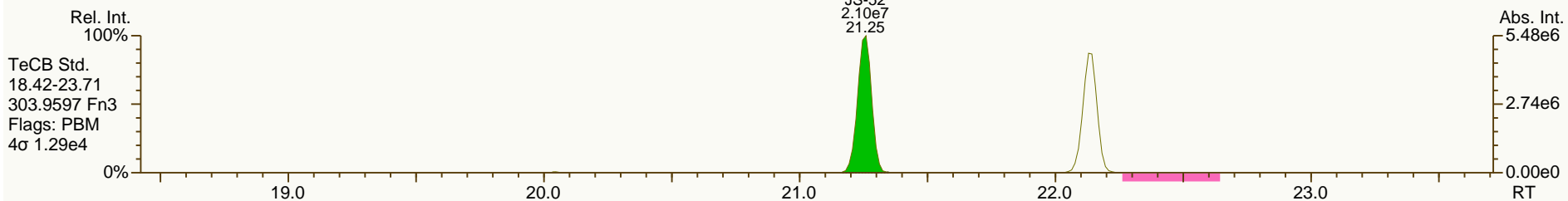
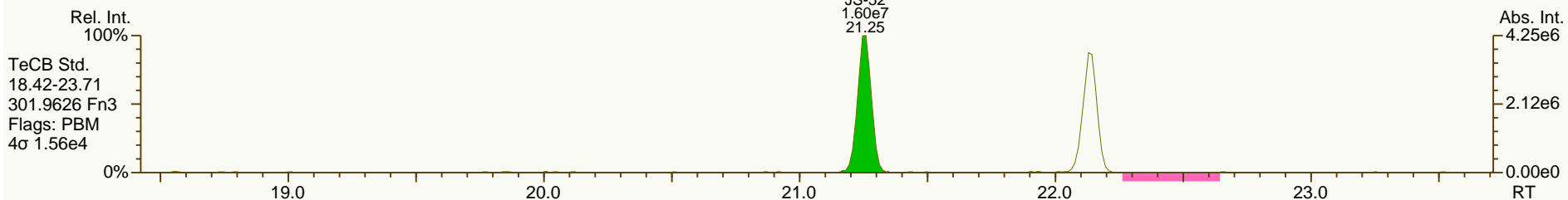
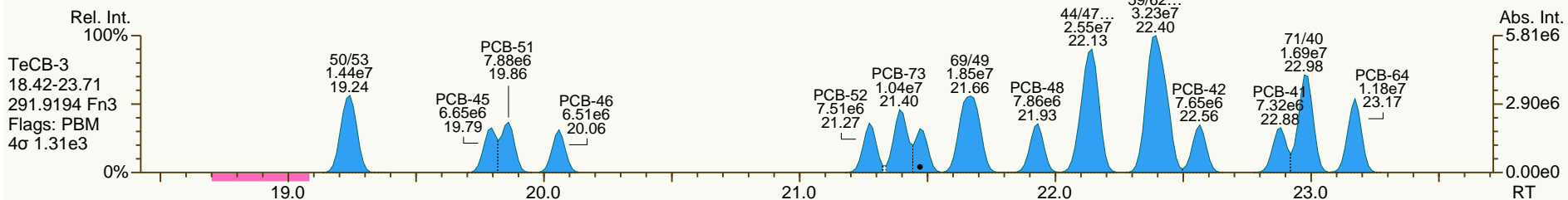
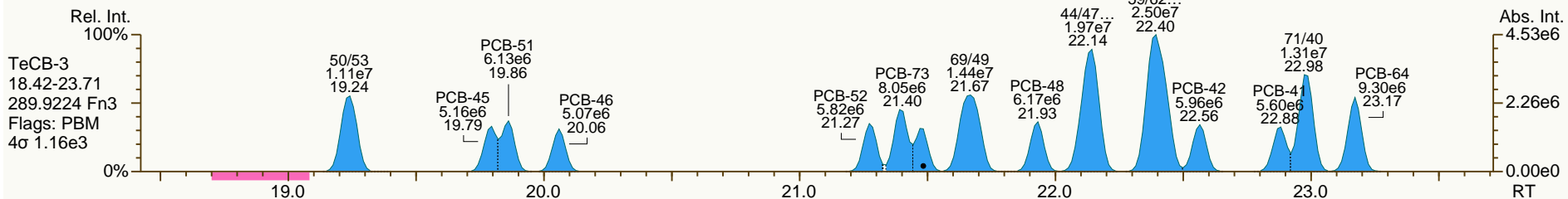
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Sample ID: 0_11361_OPR001
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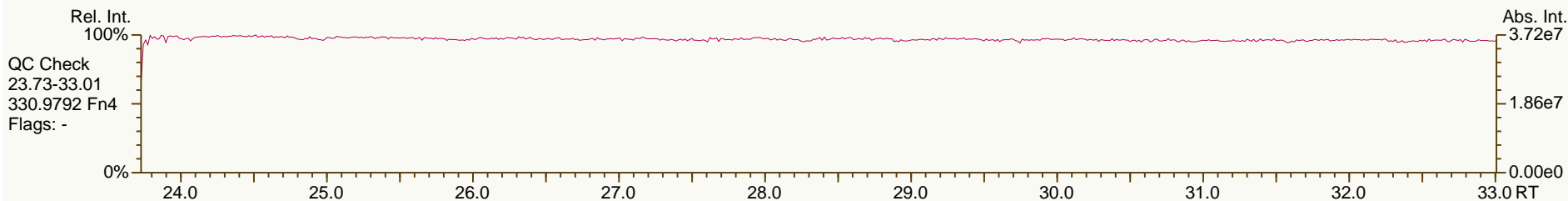
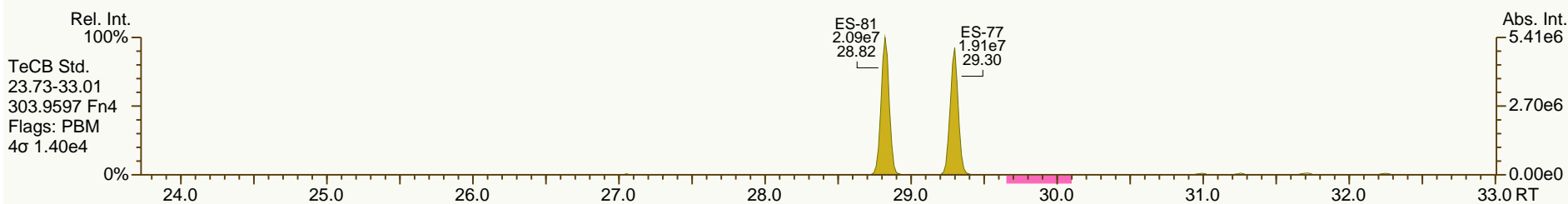
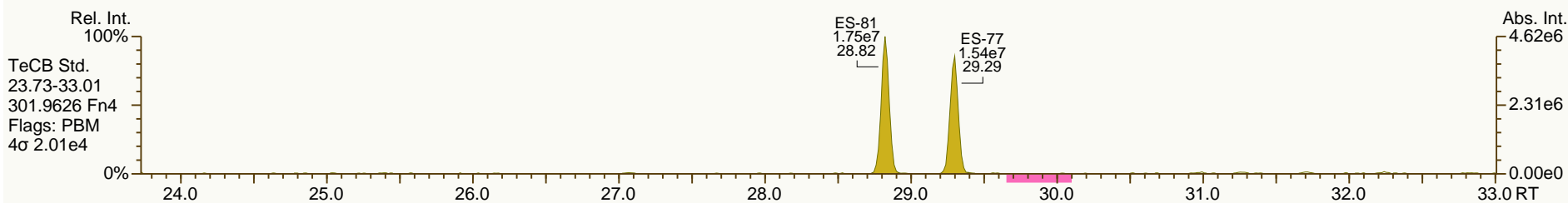
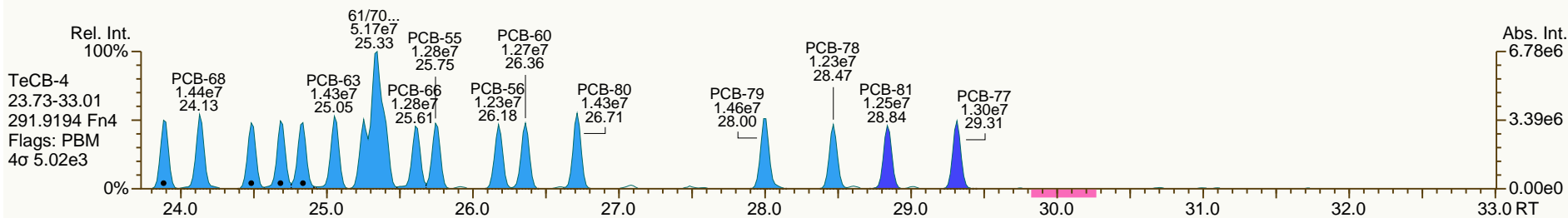
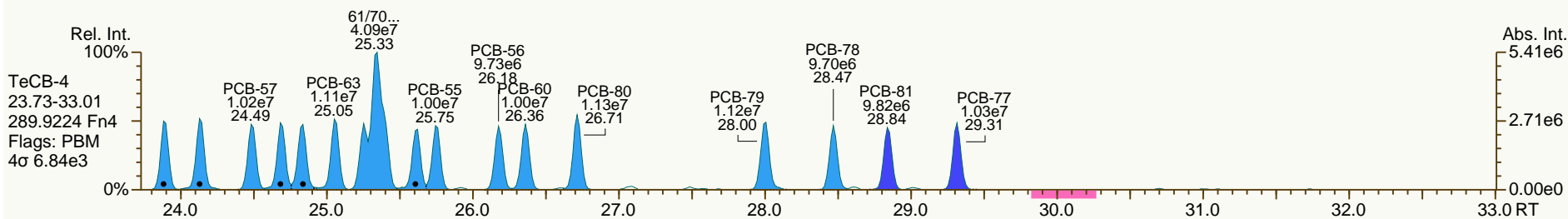
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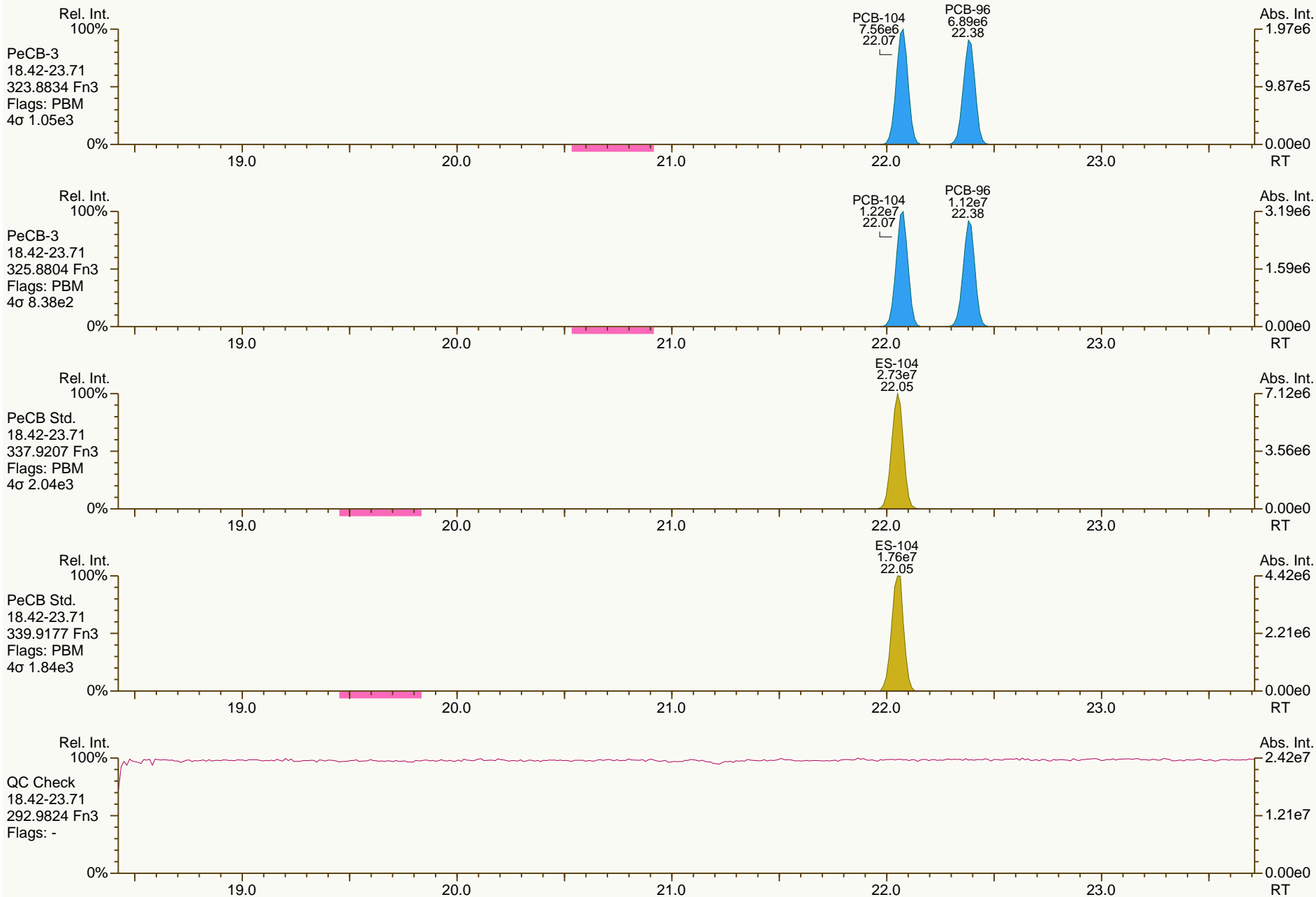
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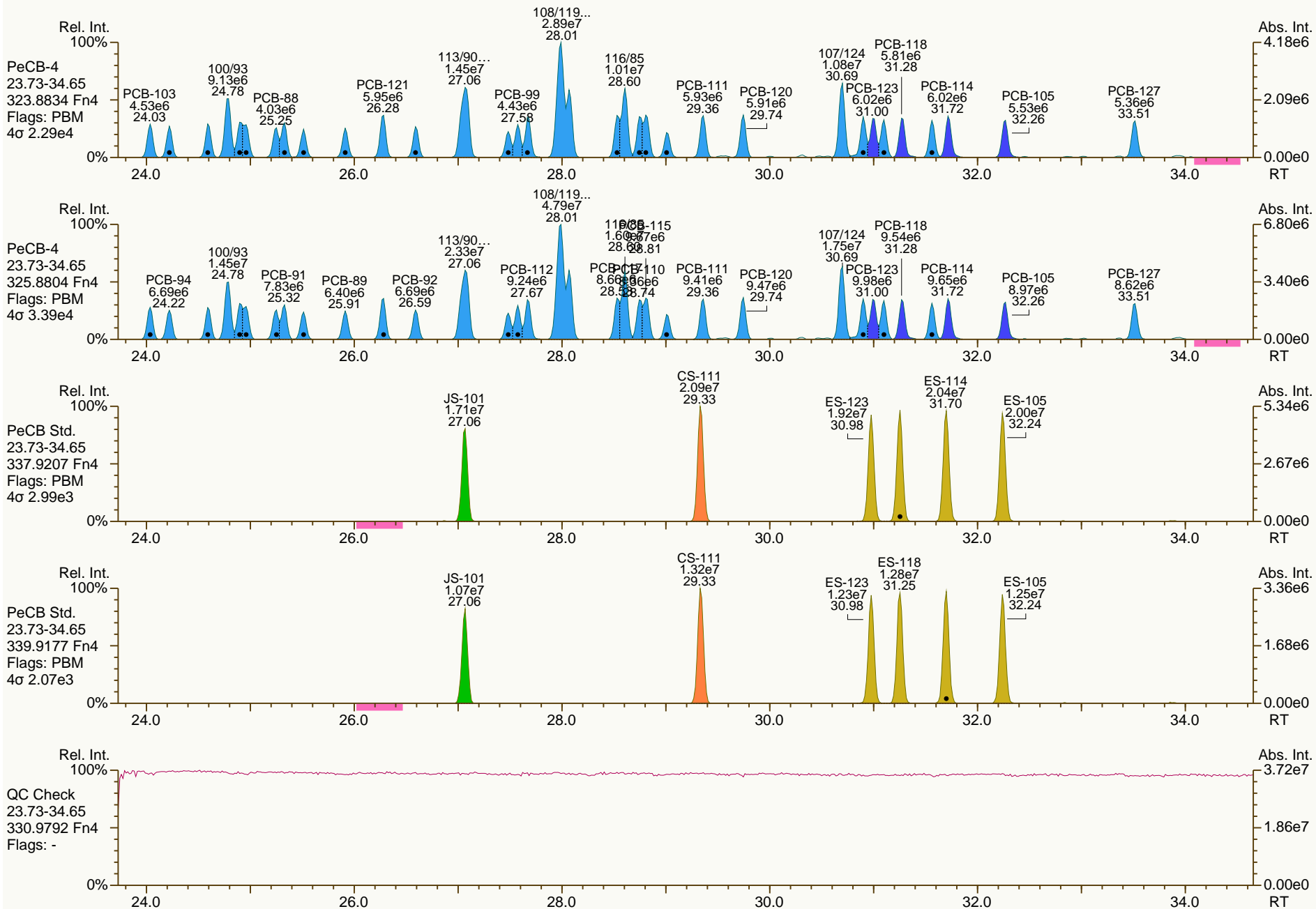
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SGS-AP ID: OPR1_11361_PCB-RJ
Instr: AutoSpec-Ultima MM4

Sample ID: 0_11361_OPR001
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

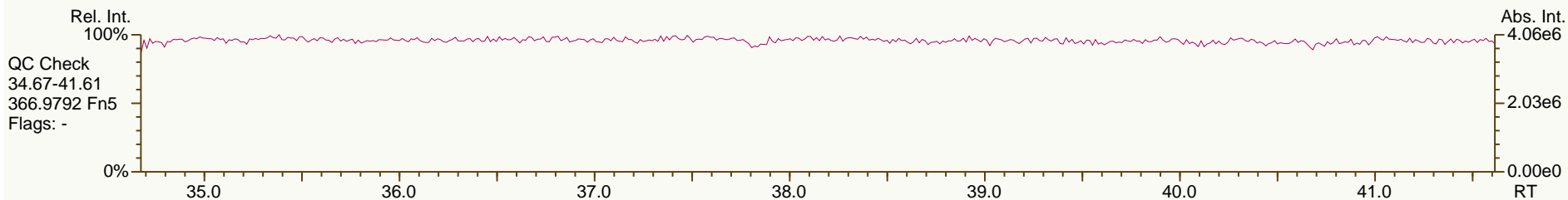
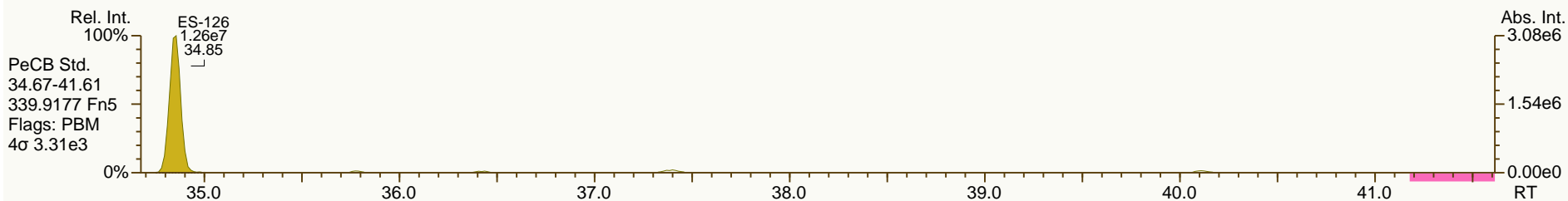
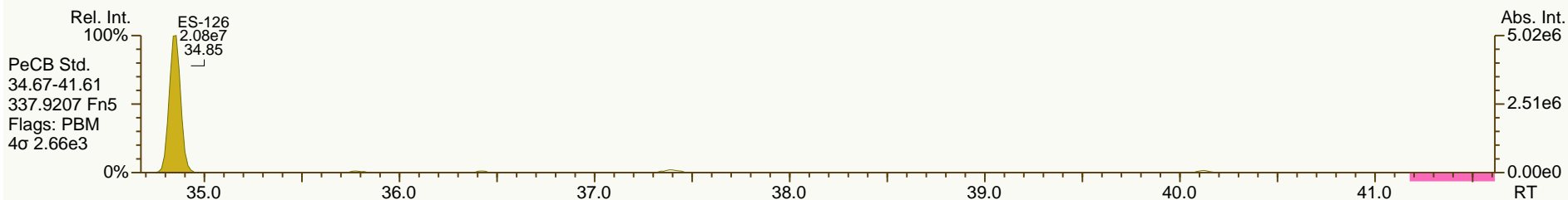
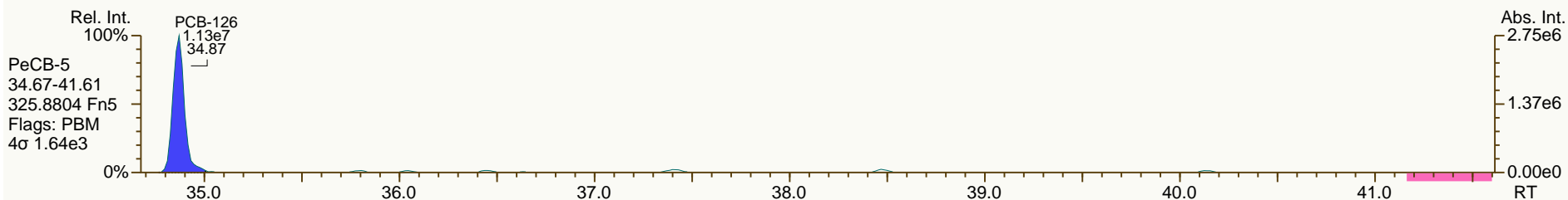
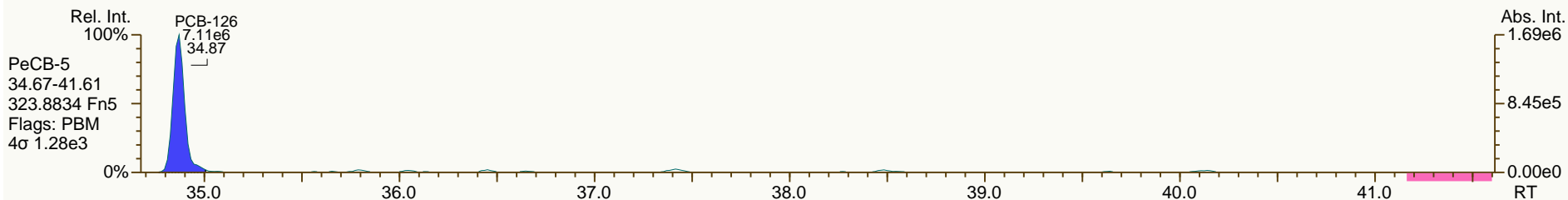
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User: CTW Datafile: 131014S04



SGS-AP ID: OPR1_11361_PCB-RJ
Instr: AutoSpec-Ultima MM4

Sample ID: 0_11361_OPR001
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

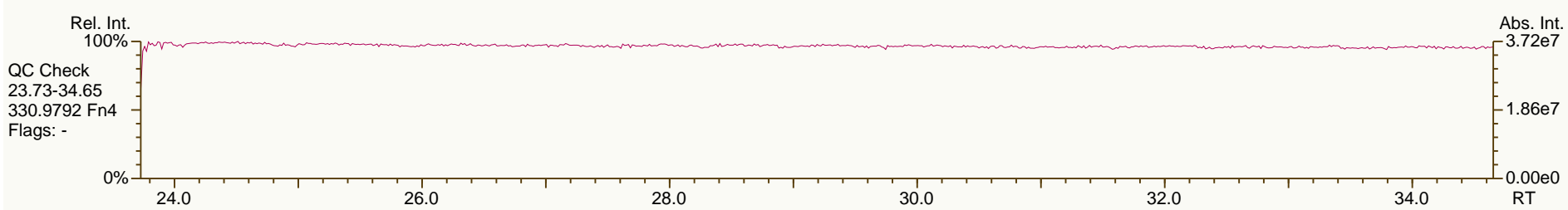
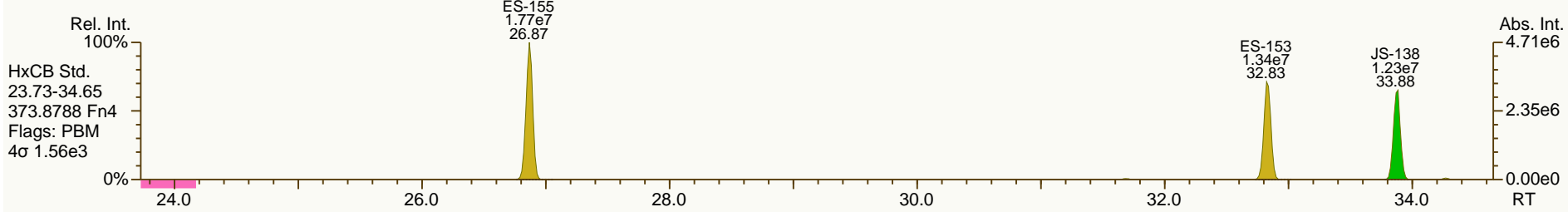
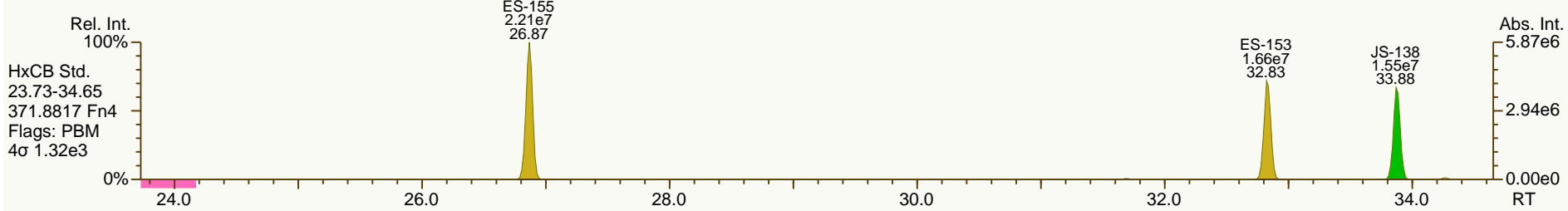
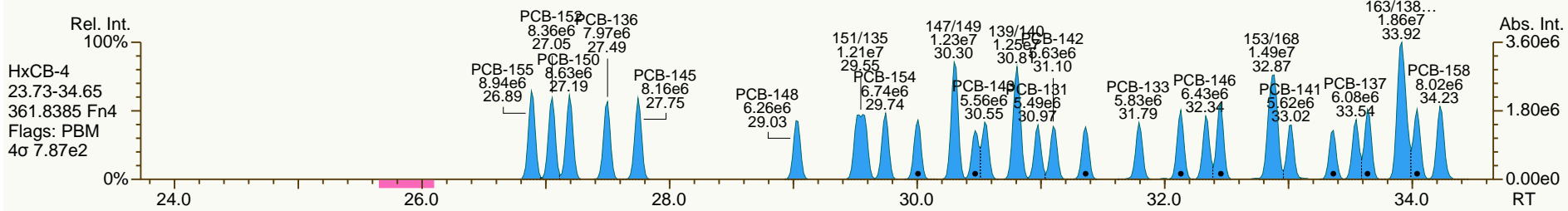
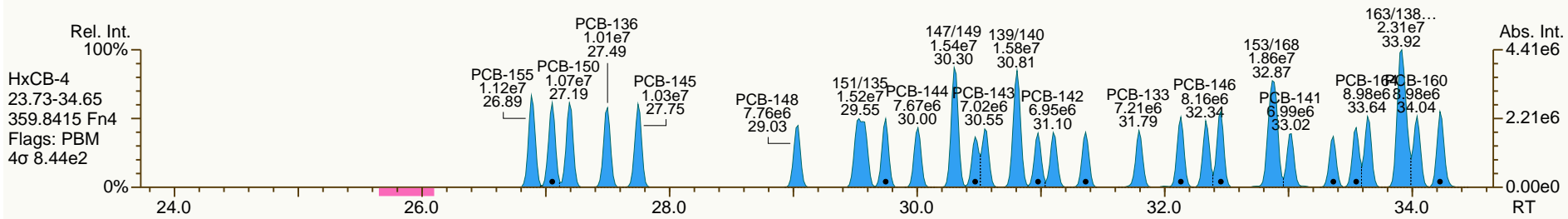
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SGS-AP ID: OPR1_11361_PCB-RJ
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11361_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

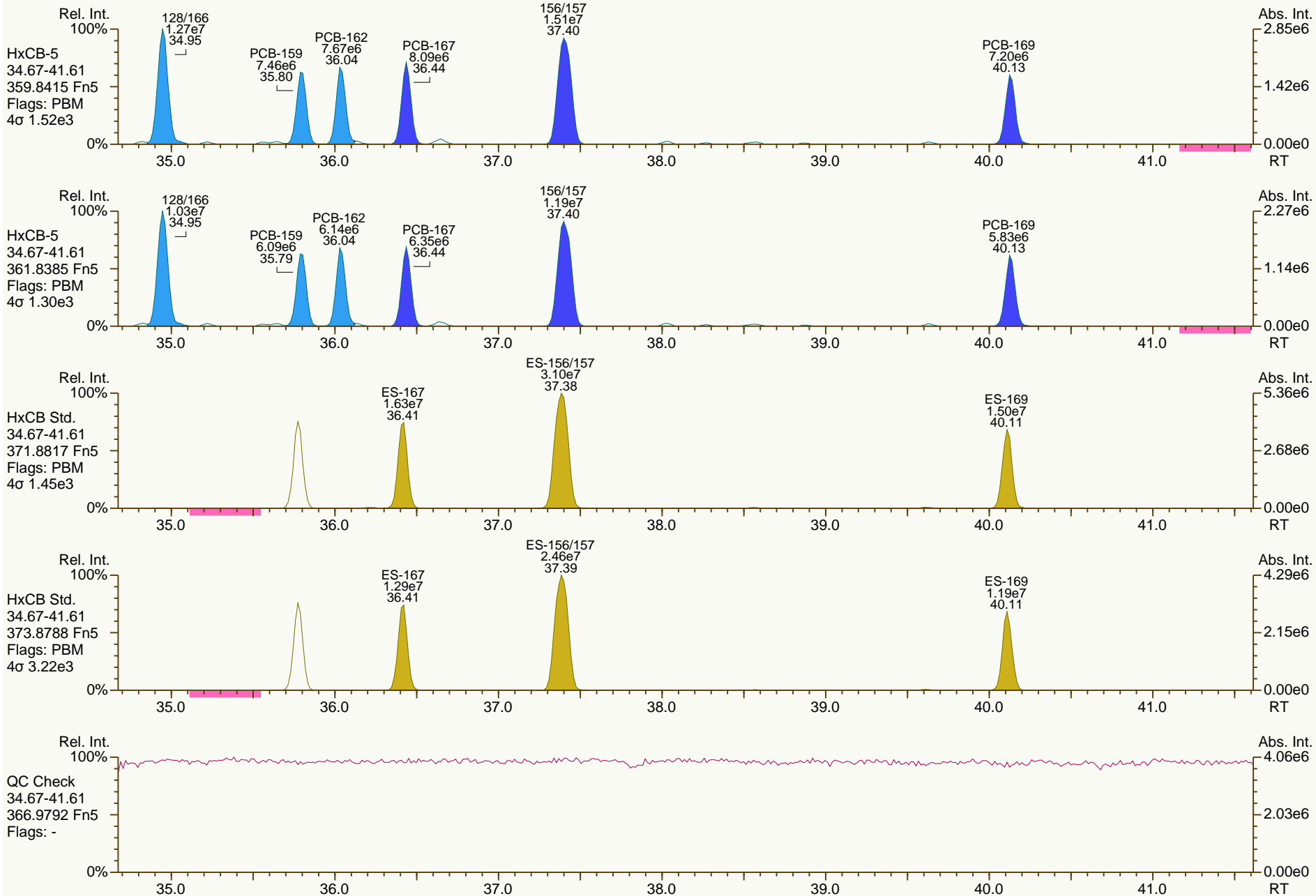
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SGS-AP ID: OPR1_11361_PCB-RJ
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11361_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

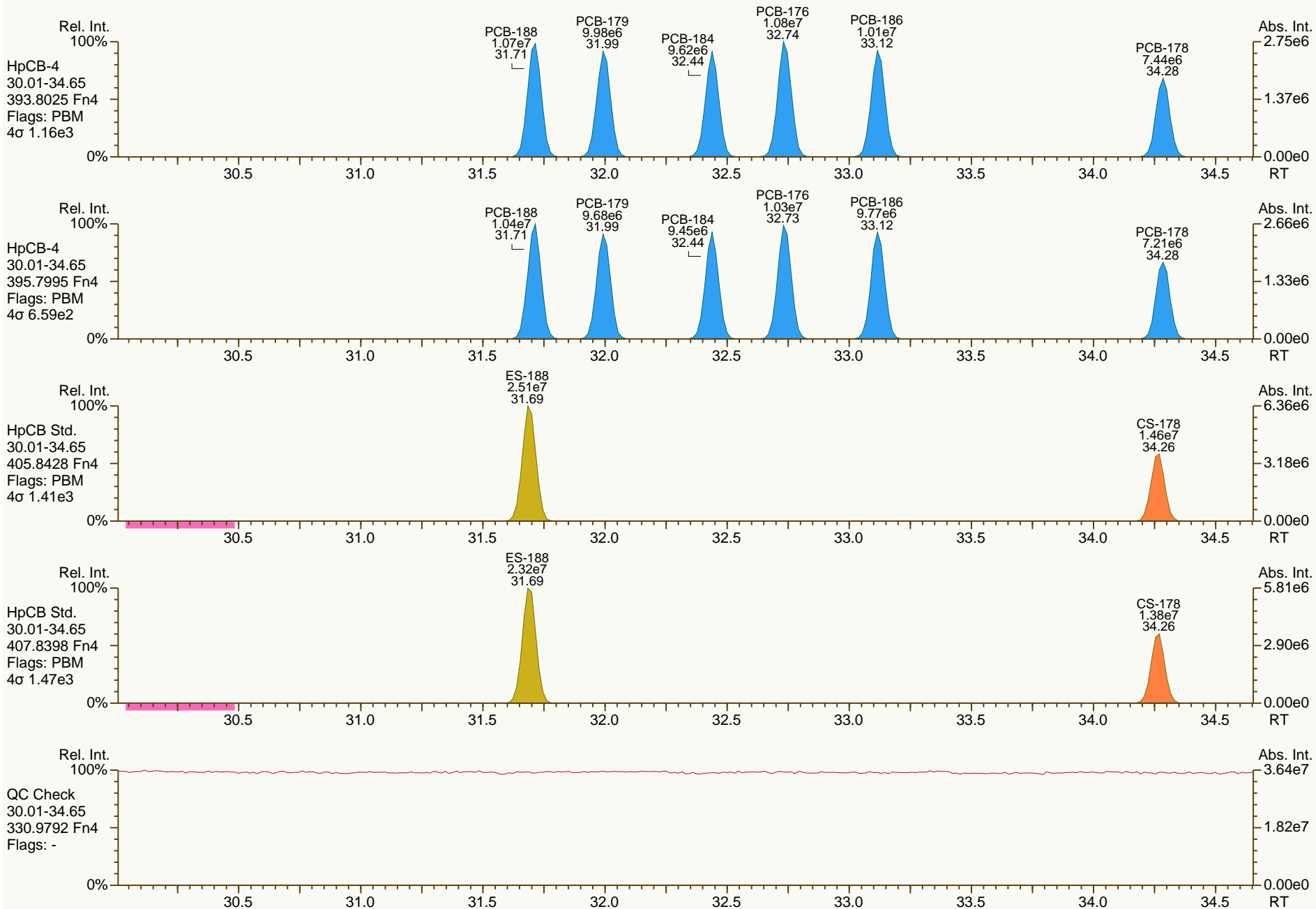
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SGS-AP ID: OPR1_11361_PCB-RJ
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11361_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

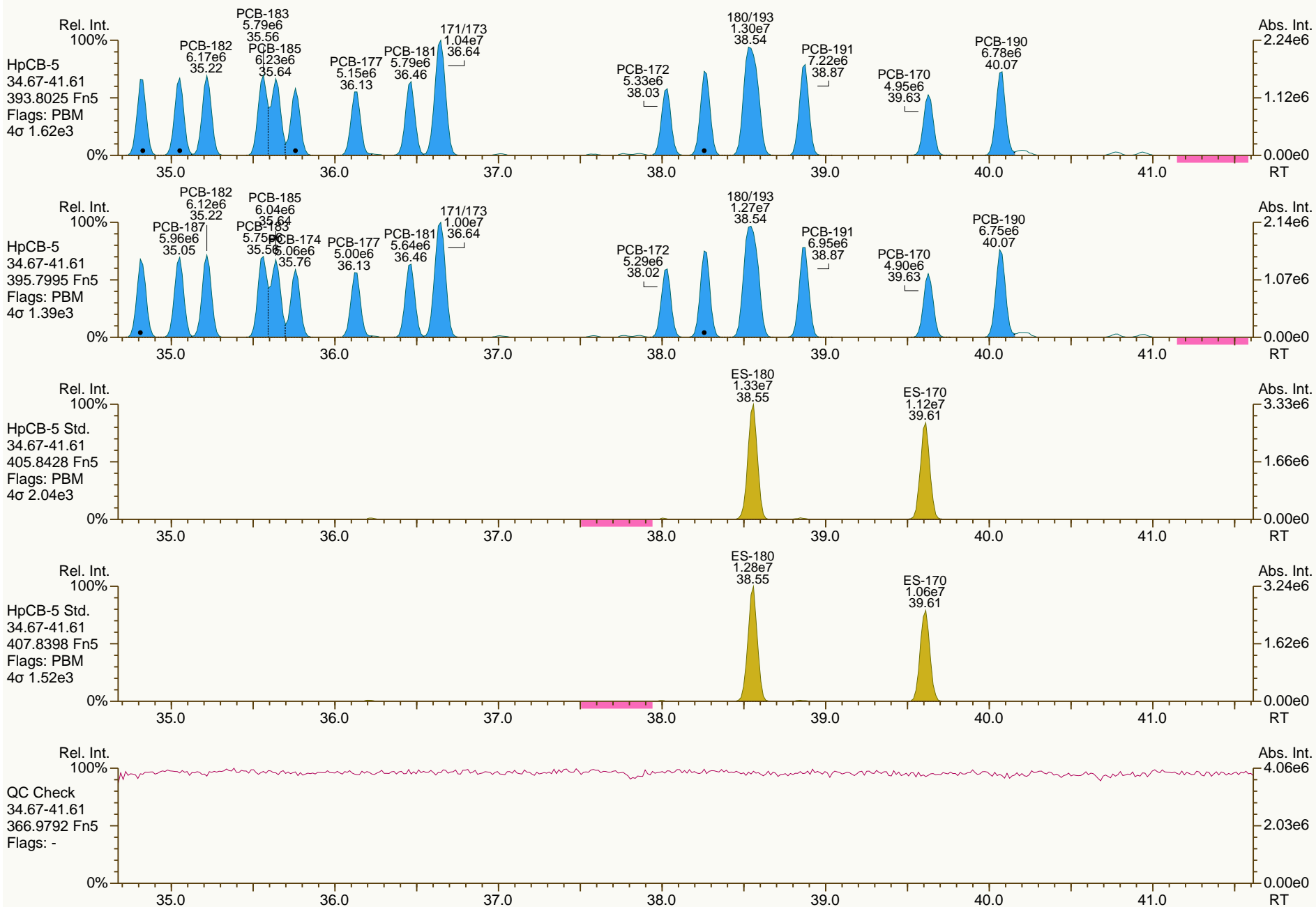
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SGS-AP ID: OPR1_11361_PCB-RJ
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11361_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

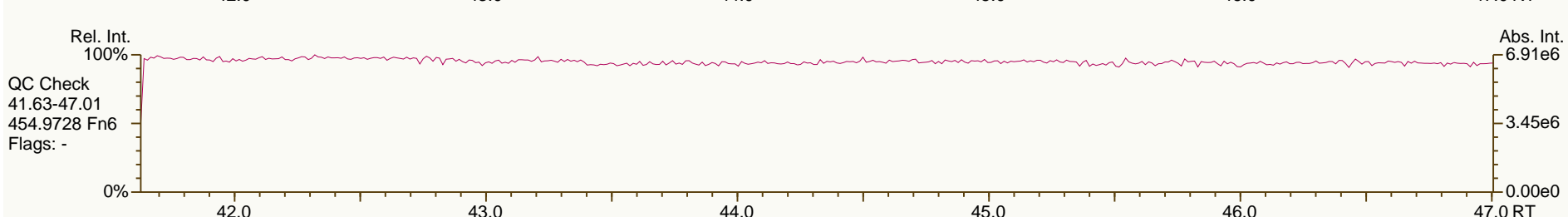
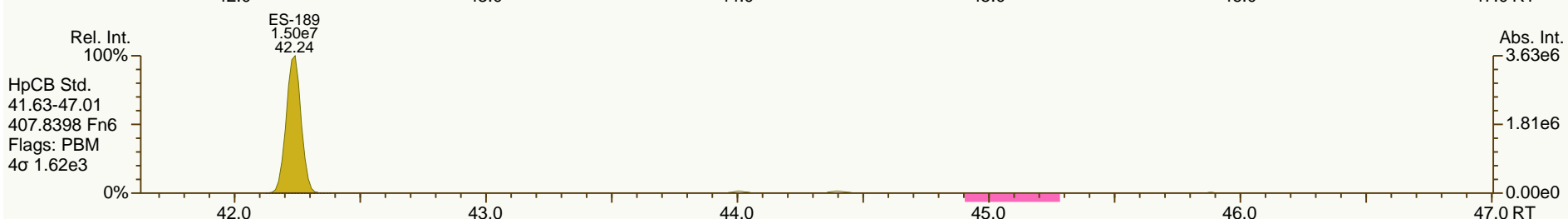
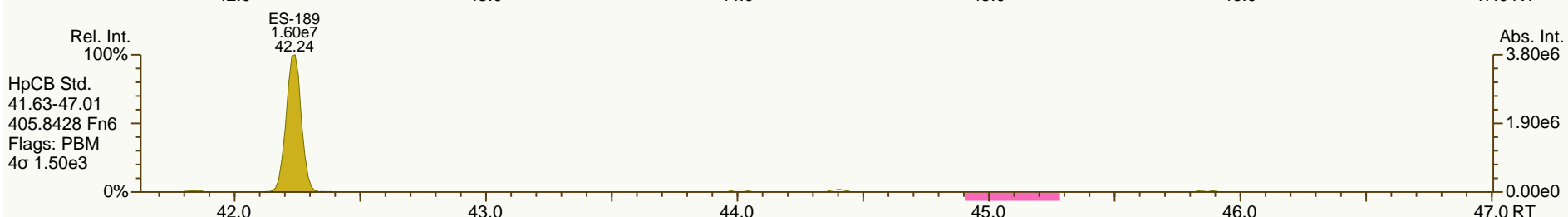
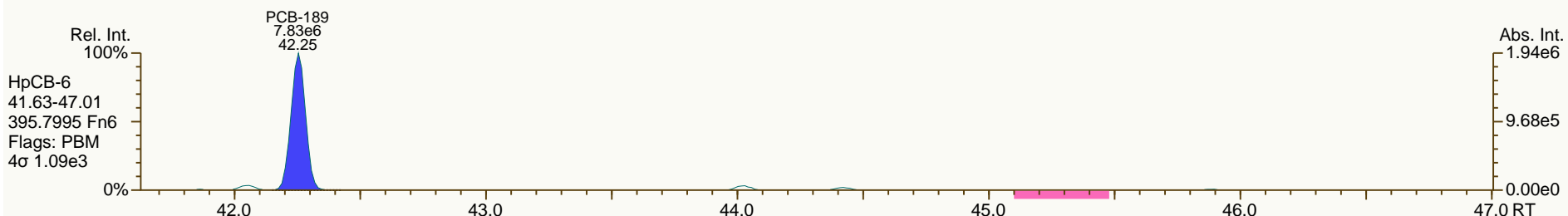
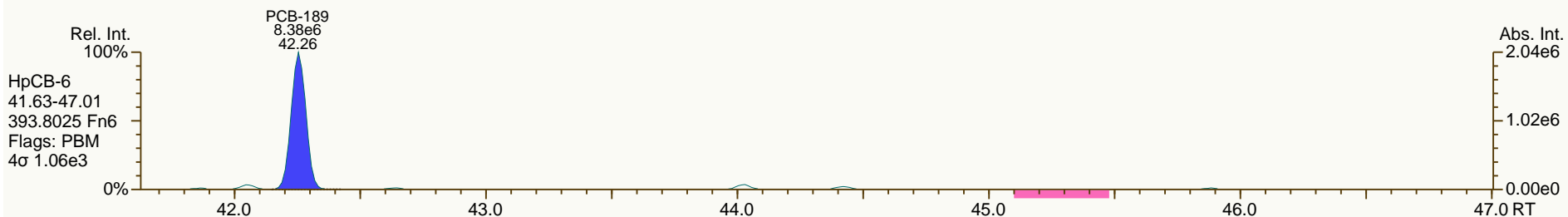
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SGS-AP ID: OPR1_11361_PCB-RJ
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11361_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

Acq: 14-Oct-2013 15:57:48
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SGS-AP ID: OPR1_11361_PCB-RJ
Instr: AutoSpec-Ultima MM4

Sample ID: 0_11361_OPR001
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

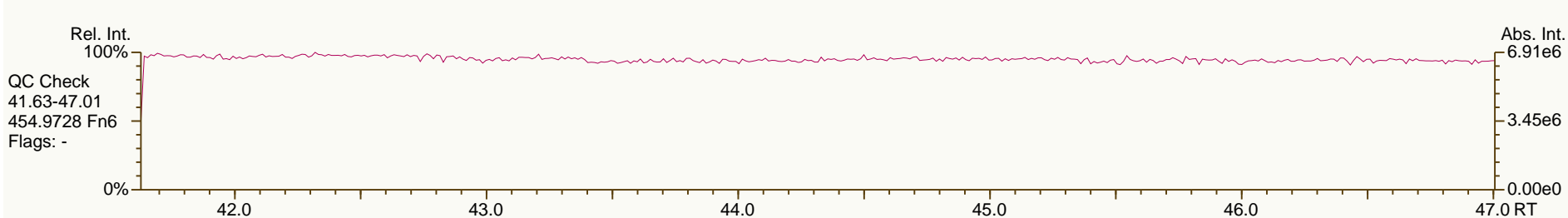
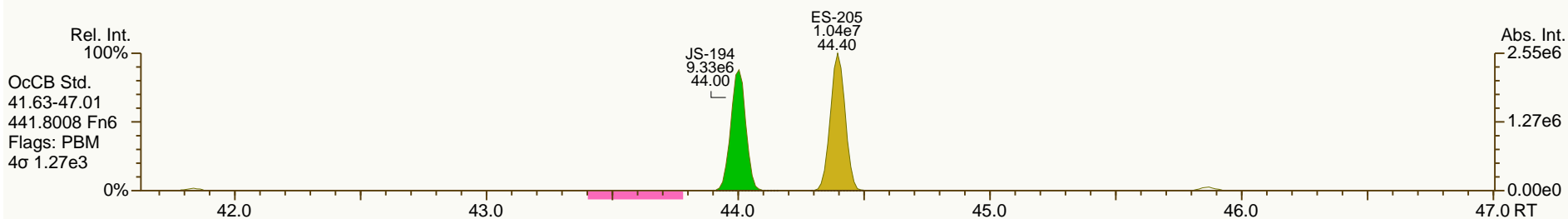
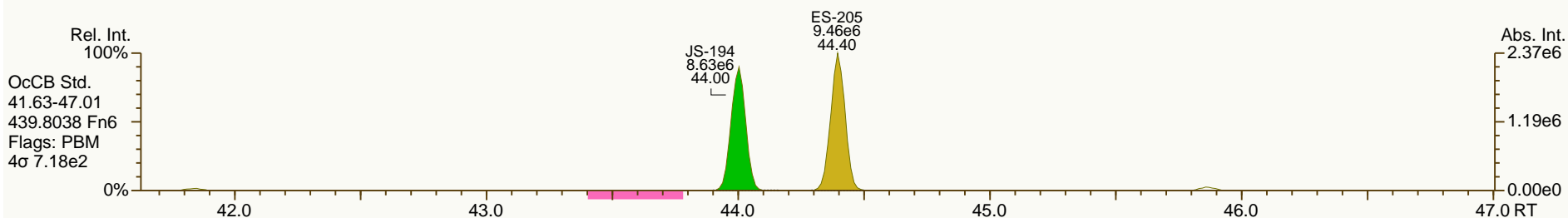
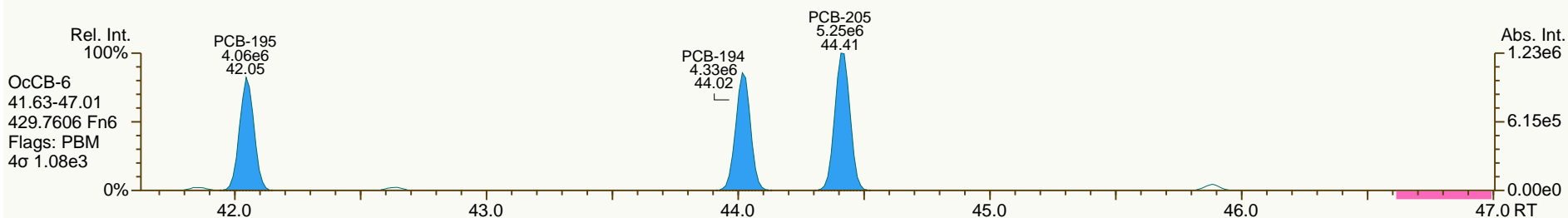
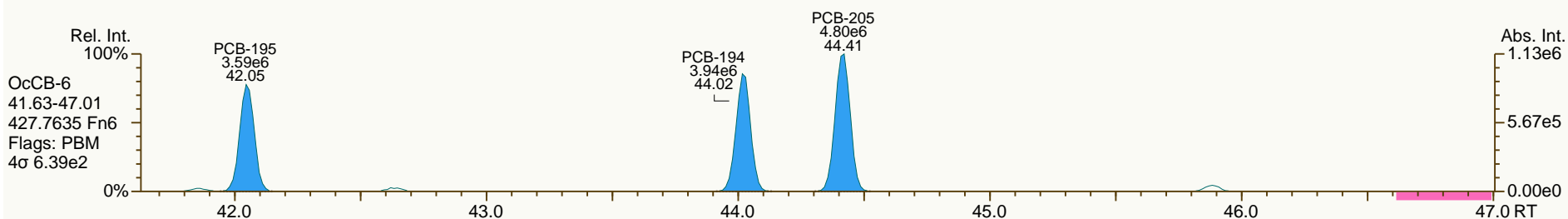
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User: CTW Datafile: 131014S04



SGS-AP ID: OPR1_11361_PCB-RJ
Instr: AutoSpec-Ultima MM4

Sample ID: 0_11361_OPR001
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

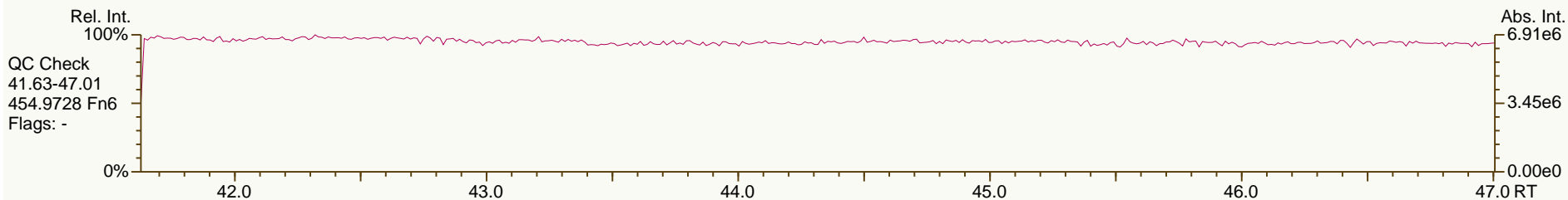
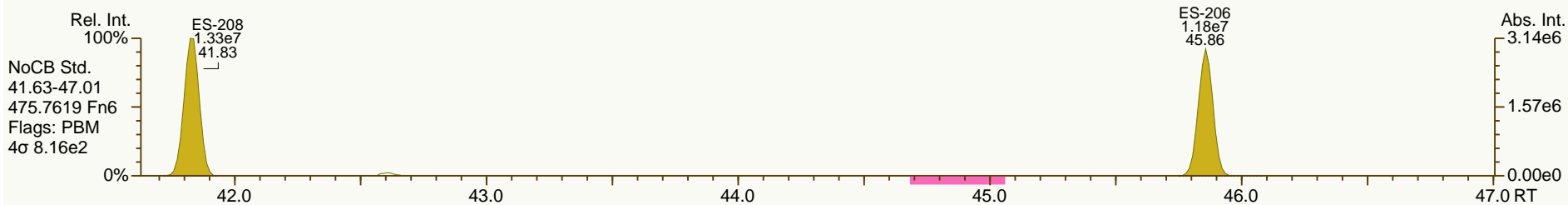
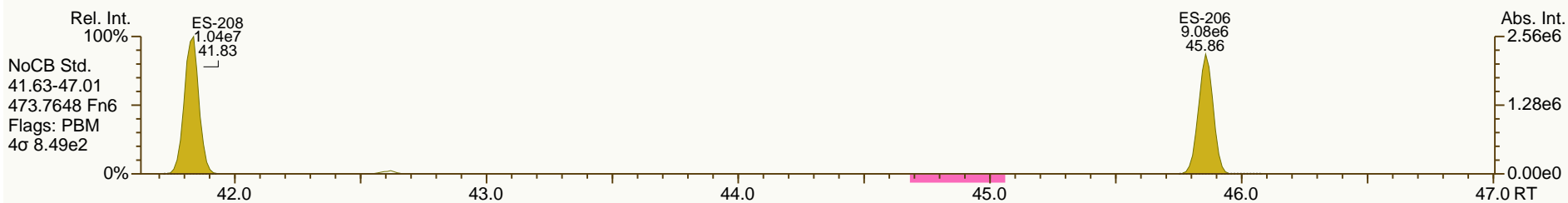
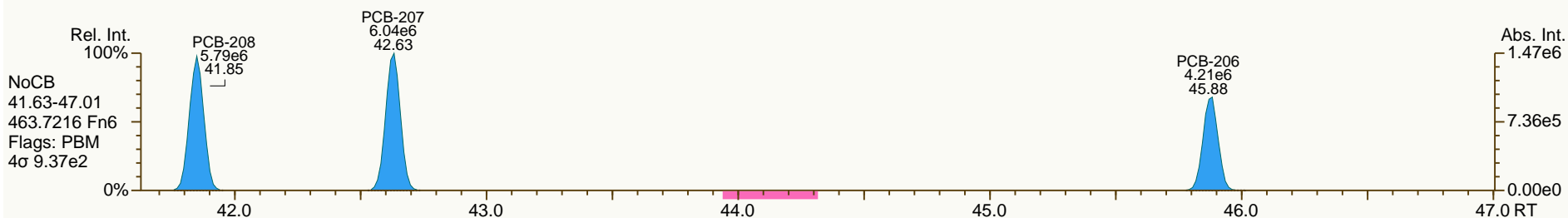
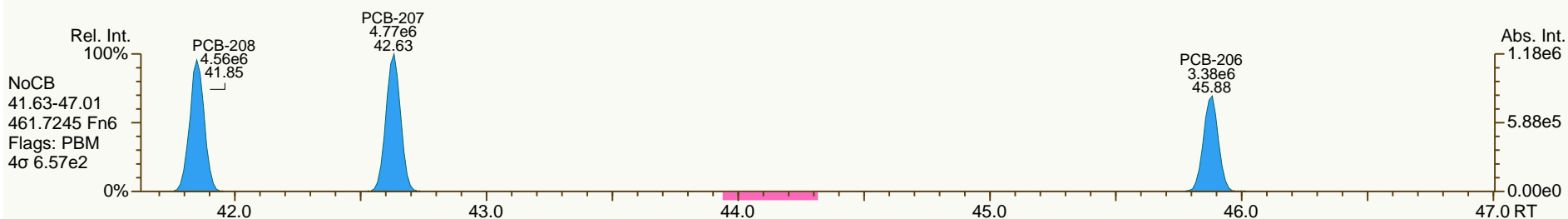
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SGS-AP ID: OPR1_11361_PCB-RJ
Instr: AutoSpec-Ultima MM4

Sample ID: 0_11361_OPR001
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

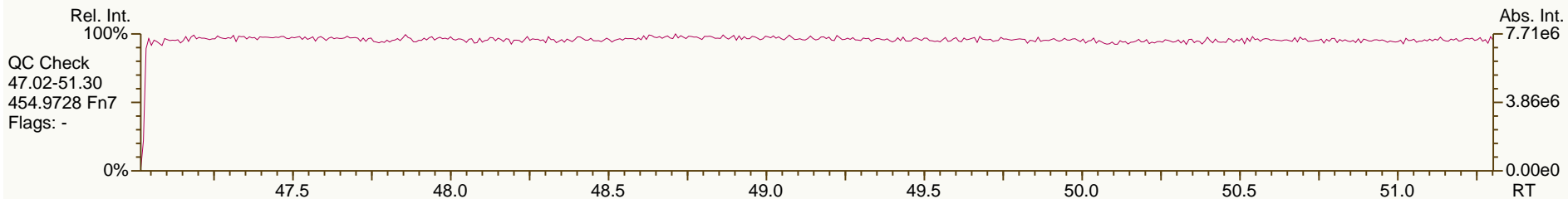
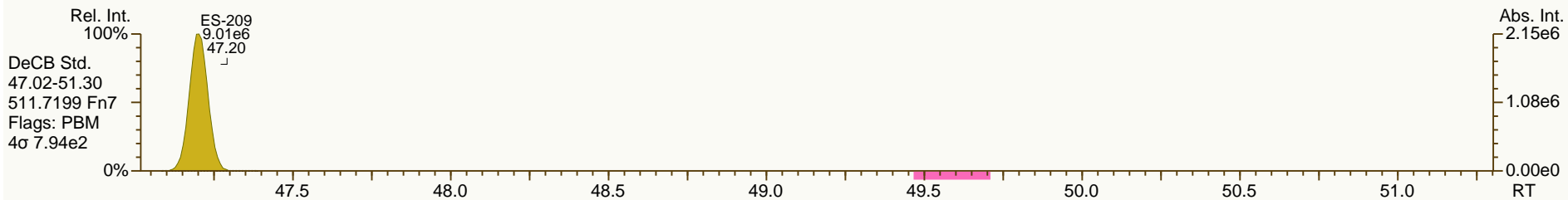
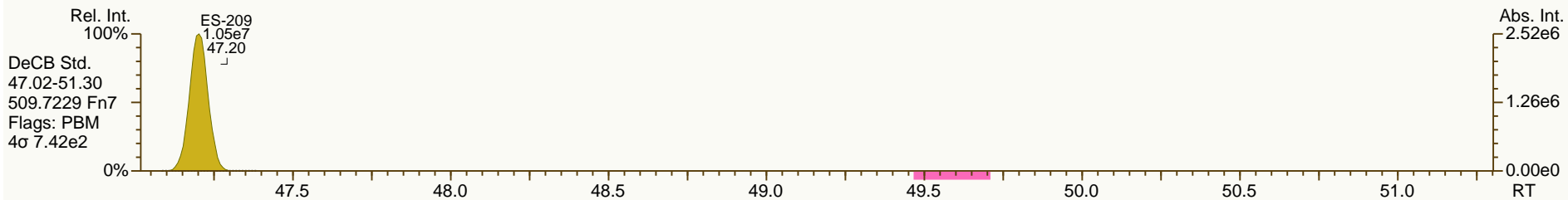
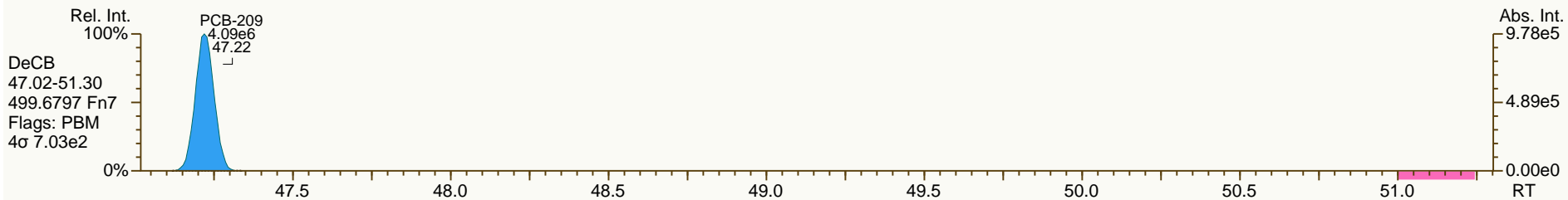
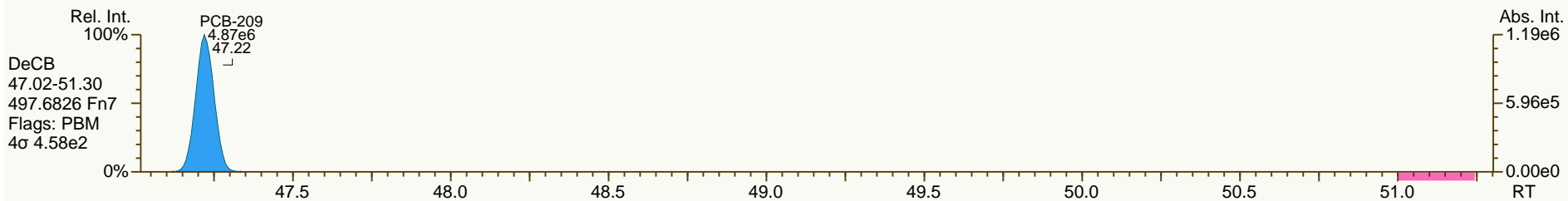
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SGS-AP ID: OPR1_11361_PCB-RJ
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11361_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

Acq: 14-Oct-2013 15:57:48
 User: CTW Datafile: 131014S04





8 October 2013

Delaney Peterson
ANCHOR QEA, LLC
720 Olive Way, Suite 1900
Seattle, WA 98101

Ph.: 206-903-9996
Email: dpeterson@anchorqea.com

Subject: Certificate of Results

Dear Delaney;

Attached to this narrative are the analytical results you requested on the samples submitted for the determination of polychlorinated dibenzo-*p*-dioxins and -dibenzofurans. The insert below summarizes relevant information pertaining to your project. In particular, QC annotations bring to your attention specific analytical observations and assessments made during the sample handling and data interpretation phases. Results reported relate only to the items tested.

Project Information Summary	When applicable, see QC Annotations for details
Client Project No.	Jeld-Wen - archives
AP Project #	A5950
Analytical Protocol	Method 1613B
No. Samples Submitted	1 composited sample
No. Samples Analyzed	1
No. Laboratory Method Blanks	1
No. OPRs / Batch CS3	1
No. Outstanding Samples	0
Date Received	25-Apr-2013
Condition Received	good
Temperature upon Receipt (C)	5.7-5.9
Extraction within Holding Time	yes
Analysis within Holding Time	yes
Data meet QA/QC Requirements	yes
Exceptions	none
Analytical Difficulties	none

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.


QC Annotations:

Please see Appendix A & B attached for data qualifier/attribute and lab identifier descriptions which may be contained in the project.

Archived samples from previous SDGs were released from hold and analyzed in this project A5950. An equivalent mass from samples JW-EA04-SC13-E-130423 and JW-EA04-SC13-F-130423 was composited together to make sample JW-EA04-SC13-EF-130423 for extraction and analysis.

Analytical Perspectives Certification IDs:

SOUTH CAROLINA	99054
ARKANSAS	88-0628
NEW JERSEY-NELAP SECONDARY	NC005
FLORIDA-NELAP PRIMARY	E87608
LOUISIANA	4024
NORTH CAROLINA	37783
WASHINGTON	C2027
NEW YORK	11988
VIRGINIA	460180
MINNESOTA	037-999-448
OREGON	pending
TEXAS	T104704484-10-1
PENNSYLVANIA-NELAP SECONDARY	68-01849

SGS Analytical Perspectives remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact us.

The management and staff of SGS Analytical Perspectives welcomes customer feedback, both positive and negative, as we continually improve our services. Please visit our web site at www.ultratrace.com and click on the 'Leave Your Feedback Here!' link on the Home Page. Thank you for choosing SGS Analytical Perspectives.

Sincerely,

Amy Boehm
 cn=Amy Boehm, o=SGS, ou,
 email=amy.boehm@sgs.com, c=US
 2013.10.08 13:47:24 -04'00'

Amy J. Boehm
 Senior Project Manager



APPENDIX A: DATA QUALIFIERS / DATA ATTRIBUTES	
>	Indicates high recoveries. Shown with the numeric value at the top of the range. ¹
B	The analyte was found in the method blank, at a concentration that was at least 10% of the concentration in the sample.
C	Two or more congeners co-elute. In EDDs C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group are shown with the number of the lowest IUPAC co-eluter.
E	The reported concentration exceeds the calibration range (upper point of the calibration curve).
EMPC	Represents an Estimated Maximum Possible Concentration. EMPC's arise in cases where the signal/noise ratio is not sufficient for peak identification (the determined ion-abundance ratio is outside the allowed theoretical range), or where there is a co-eluting interference.
ETH	Indicates the presence of a diphenyl ether that appears to interfere with the quantitation of a furan. The reported concentration is the maximum.
H/h	If the standard recovery is below the method or SOP specified value "H" is assigned. If the obtained value is less than half the specified value "h" is assigned. ¹
J	Indicates that an analyte has a concentration below the reporting limit (lowest point of the calibration curve).
ND	Indicates a non-detect.
NR	Indicates a value that is not reportable.
PR	Due to interference, the associated congener is poorly resolved.
QI	Indicates the presence of a quantitative interference.
SI	Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates. ¹
U	The analyte was not detected. The estimated detection limit (EDL) may be reported for this analyte.
V	The labeled standard recovery was found to be outside of the method control limits.
X	Indicates results reported from reinjection, refractionation, or repeat analyses.
APPENDIX B: LAB ID IDENTIFIERS	
AR	Indicates use of the archived portion of the sample extract.
CU	Indicates a sample that required additional clean-up prior to MS injection/processing.
D	Indicates a dilution of the sample extract. The number that follows the "D" indicates the dilution factor.
DE	Indicates a dilution performed with the addition of ES (extraction standard) solution.
DUP	Designation for a duplicate sample.
MS	Designation for a matrix spike.
MSD	Designation for a matrix spike duplicate.
RJ	Indicates a reinjection of the sample extract.
S	Indicates a sample split. The number that follows the "S" indicates the split factor.

¹Denotes data qualifiers/attributes whose use will be phased out over time

Sample ID: JW-EA04-SC13-EF-130423**Method 1613B**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Solids	Lab Project ID:	A5950	Date Received:	25-Apr-2013
Project ID:	Jeld-Wen	Weight/Volume:	10.02 g	Lab Sample ID:	A5950_11363_DF_003	Date Extracted:	27-Sep-2013
Date Collected:	23-Apr-2013	% Solids:	78.4 %	QC Batch No:	11363	Date Analyzed:	04-Oct-2013
		Split:	-	Dilution:	-	Time Analyzed:	17:02:57
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	0.0918			ES 2378-TCDD	91.9	
12378-PeCDD	ND	0.121			ES 12378-PeCDD	81.7	
123478-HxCDD	0.113			J	ES 123478-HxCDD	76.5	
123678-HxCDD	EMPC		0.374	J	ES 123678-HxCDD	74.7	
123789-HxCDD	EMPC		0.27	J	ES 123789-HxCDD	75.4	
1234678-HpCDD	7.96				ES 1234678-HpCDD	88	
OCDD	55.6				ES OCDD	71.2	
2378-TCDF	0.411			J	ES 2378-TCDF	91.3	
12378-PeCDF	ND	0.0834			ES 12378-PeCDF	89.4	
23478-PeCDF	0.242			J	ES 23478-PeCDF	85.3	
123478-HxCDF	0.177			J	ES 123478-HxCDF	78.3	
123678-HxCDF	0.103			J	ES 123678-HxCDF	79.4	
234678-HxCDF	EMPC		0.139	J	ES 234678-HxCDF	80.2	
123789-HxCDF	ND	0.0859			ES 123789-HxCDF	79.8	
1234678-HpCDF	2.35			J	ES 1234678-HpCDF	80.1	
1234789-HpCDF	ND	0.114			ES 1234789-HpCDF	80.4	
OCDF	3.5			J	ES OCDF	71	
Totals					Standard	CS/AS Recoveries	
Total TCDD	1.89		2.67		CS 37Cl-2378-TCDD	100	
Total PeCDD	0.951		1.09		CS 12347-PeCDD	90.4	
Total HxCDD	3.73		4.53		CS 12346-PeCDF	91.2	
Total HpCDD	18.1		18.1		CS 123469-HxCDF	90.1	
					CS 1234689-HpCDF	90.9	
Total TCDF	2.58		3.89		AS 1368-TCDD	109	
Total PeCDF	1.16		1.77		AS 1368-TCDF	78.5	
Total HxCDF	2.88		3.25				
Total HpCDF	6.89		6.89				
Total PCDD/Fs	97.3		101				
WHO-2005 TEQs							
TEQ: ND=0	0.274		0.352				
TEQ: ND=DL/2	0.401	0.157	0.465				
TEQ: ND=DL	0.529	0.315	0.577				



2714 Exchange Drive
Wilmington, NC 28405, USA

www.us.sgs.com

Tel: +1 910 794-1613; Toll-Free 866 846-8290; Fax: +1 910 794-3919

Sample ID: Method Blank A5950**Method 1613B**

Client Data		Sample Data		Laboratory Data			
Name:	ANCHOR QEA	Matrix:	Solids	Lab Project ID:	A5950	Date Received:	n/a
Project ID:	Jeld-Wen	Weight/Volume:	10.00 g	Lab Sample ID:	MB1_11363_DF_SDS	Date Extracted:	27-Sep-2013
Date Collected:	n/a	% Solids:	100.0 %	QC Batch No:	11363	Date Analyzed:	04-Oct-2013
		Split:	-	Dilution:	-	Time Analyzed:	16:10:23
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	0.105			ES 2378-TCDD	92.9	
12378-PeCDD	ND	0.118			ES 12378-PeCDD	89	
123478-HxCDD	ND	0.129			ES 123478-HxCDD	83.8	
123678-HxCDD	ND	0.143			ES 123678-HxCDD	85.1	
123789-HxCDD	ND	0.138			ES 123789-HxCDD	83.4	
1234678-HpCDD	ND	0.148			ES 1234678-HpCDD	82.8	
OCDD	ND	0.351			ES OCDD	65.1	
2378-TCDF	ND	0.0989			ES 2378-TCDF	91.1	
12378-PeCDF	ND	0.0916			ES 12378-PeCDF	84.8	
23478-PeCDF	ND	0.0965			ES 23478-PeCDF	82.8	
123478-HxCDF	ND	0.0837			ES 123478-HxCDF	86.3	
123678-HxCDF	ND	0.0804			ES 123678-HxCDF	88.9	
234678-HxCDF	ND	0.0844			ES 234678-HxCDF	84.9	
123789-HxCDF	ND	0.104			ES 123789-HxCDF	89.7	
1234678-HpCDF	ND	0.0925			ES 1234678-HpCDF	87.8	
1234789-HpCDF	ND	0.108			ES 1234789-HpCDF	86.1	
OCDF	ND	0.172			ES OCDF	69.2	
Totals					Standard	CS/AS Recoveries	
Total TCDD	ND	0.105	ND		CS 37Cl-2378-TCDD	97.3	
Total PeCDD	ND	0.118	ND		CS 12347-PeCDD	96	
Total HxCDD	ND	0.136	ND		CS 12346-PeCDF	87.8	
Total HpCDD	ND	0.148	ND		CS 123469-HxCDF	105	
Total TCDF	ND	0.0989	ND		CS 1234689-HpCDF	93.2	
Total PeCDF	ND	0.094	ND		AS 1368-TCDD	109	
Total HxCDF	ND	0.0873	ND		AS 1368-TCDF	89.4	
Total HpCDF	ND	0.0997	ND				
Total PCDD/Fs	ND		ND				
WHO-2005 TEQs							
TEQ: ND=0	0		0				
TEQ: ND=DL/2	0.173	0.173	0.173				
TEQ: ND=DL	0.345	0.345	0.345				



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METHOD 1613B**PCDD/F ONGOING PRECISION AND RECOVERY (OPR)****FORM 8A**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
 Instrument ID: MM1 GC Column ID: ZB-5ms
 VER Data Filename: 131004P1-02 Analysis Date: 04-OCT-2013 14:25:13
 Lab ID: OPR1_11363_DF

NATIVE ANALYTES	SPIKE CONC.	CONC. FOUND	RANGE (ng/mL)		OK
2,3,7,8-TCDD	10	11.1	6.7	- 15.8	Y
1,2,3,7,8-PeCDD	50	49	35	- 71	Y
1,2,3,4,7,8-HxCDD	50	58.1	35	- 82	Y
1,2,3,6,7,8-HxCDD	50	60.6	38	- 67	Y
1,2,3,7,8,9-HxCDD	50	54.4	32	- 81	Y
1,2,3,4,6,7,8-HpCDD	50	53.2	35	- 70	Y
OCDD	100	109	78	- 144	Y
2,3,7,8-TCDF	10	11.5	7.5	- 15.8	Y
1,2,3,7,8-PeCDF	50	50.1	40	- 67	Y
2,3,4,7,8-PeCDF	50	52.3	34	- 80	Y
1,2,3,4,7,8-HxCDF	50	50.6	36	- 67	Y
1,2,3,6,7,8-HxCDF	50	51.7	42	- 65	Y
2,3,4,6,7,8-HxCDF	50	51.8	35	- 78	Y
1,2,3,7,8,9-HxCDF	50	51	39	- 65	Y
1,2,3,4,6,7,8-HpCDF	50	55.7	41	- 61	Y
1,2,3,4,7,8,9-HpCDF	50	52.5	39	- 69	Y
OCDF	100	103	63	- 170	Y

Contract-required concentration limits for OPR as specified in Table 6,
 Method 1613. 10/94

METHOD 1613B**PCDD/F ONGOING PRECISION AND RECOVERY (OPR)****FORM 8B**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
 Instrument ID: MM1 GC Column ID: ZB-5ms
 VER Data Filename: 131004P1-02 Analysis Date: 04-OCT-2013 14:25:13
 Lab ID: OPR1_11363_DF

LABELED ANALYTES	SPIKE CONC.	CONC. FOUND	RANGE (ng/mL)			OK
13C-2,3,7,8-TCDD	100	93.5	20	-	175	Y
13C-1,2,3,7,8-PeCDD	100	99.5	21	-	227	Y
13C-1,2,3,4,7,8-HxCDD	100	81.8	21	-	193	Y
13C-1,2,3,6,7,8-HxCDD	100	81.2	25	-	163	Y
13C-1,2,3,7,8,9-HxCDD	100	83.9	26	-	166	Y
13C-1,2,3,4,6,7,8-HpCDD	100	88.6	26	-	166	Y
13C-OCDD	200	160	26	-	397	Y
13C-2,3,7,8-TCDF	100	95.3	22	-	152	Y
13C-1,2,3,7,8-PeCDF	100	95.6	21	-	192	Y
13C-2,3,4,7,8-PeCDF	100	94.9	13	-	328	Y
13C-1,2,3,4,7,8-HxCDF	100	88.2	19	-	202	Y
13C-1,2,3,6,7,8-HxCDF	100	89.4	21	-	159	Y
13C-2,3,4,6,7,8-HxCDF	100	89.2	22	-	176	Y
13C-1,2,3,7,8,9-HxCDF	100	92.8	17	-	205	Y
13C-1,2,3,4,6,7,8-HpCDF	100	91.2	21	-	158	Y
13C-1,2,3,4,7,8,9-HpCDF	100	90	20	-	186	Y
13C-OCDF	200	162	26	-	397	Y
CLEANUP STANDARD						
37Cl-2,3,7,8-TCDD	40	39.9	12.4	-	76.4	Y

Contract-required concentration limits for OPR as specified in Table 6,
 Method 1613. 10/94

Processed: 05 Oct 2013 10:56 Analyst: MC



Sample Receipt Notification

2714 Exchange Drive
 Wilmington, NC 28405 USA
 Tel: 910 794-1613
 Toll Free: 866 846-8290
 Fax: 910 794-3919

Project Manager: Amy Boehm
Receipt Date & Time: 24-Sep-13 at 14:00
AP Project name: A5950
Requested TAT: 21 days
Projected due date: 15-Oct-13
Matrix: Sediment
Phone#: 910-794-1613
Email Address: Amy.Boehm@sgs.com

Company Contact: Delaney Peterson
Company: ANCHOR QEA
Project Name & Site: Jeld-Wen
Project PO#:
QAAP/Contract #: INV → Jeld-Wen
Requested Analysis:
Phone#: 206.903.3396
Email Address: dpeterson@anchorgea.com

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
JW-EA04-SC13-E-130423	A5950_001	A5435-005	1	23-Apr-13	11:15	5.7	1	n/a
JW-EA04-SC13-F-130423	A5950_002	A5435-006	1	23-Apr-13	10:55	5.7	1	n/a
JW-EA09-SC36-B-130426	A5950_003	A5448-002	1	26-Apr-13	09:10	3.9	2	n/a
JW-EA09-SC36-C-130426	A5950_004	A5448-003	1	26-Apr-13	09:15	3.9	2	n/a
JW-EA04-SC13-EF-130423	A5950-005	composite						

Preservation Type: Ice - Good Condition **Sample Seals:** No

Notes/Comments:
 Samples received intact.
 Please composite samples JW-EA04-SC13-E-130423 and JW-EA04-SC13-F-130423 to make an ID of JW-EA04-SC13-EF-130423. An aliquot of this composite will need to be sent to ARI for TOC and TS.
 An aliquot of JW-EA09-SC36-B-130426 and JW-EA09-SC36-C-130426 will need to be sent to ARI for analysis.
 Samples kept in frozen storage since receipt.

Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.

Received by: Barbara Hager

Logged in by: Barbara Hager

M1613 17+Homologs
 W10-TBF's

OPR

QC'ed by:



CHAIN OF CUSTODY

9 of 239
SGS ANALYTICAL PERSPECTIVES
 5500 Business Drive
 Wilmington, NC 28405
 +1 910 350 1903
 WWW.SGS.COM

A5950

CLIENT: Anchor QEA					SGS Reference #: A5435						PAGE 1	
CONTACT: Delaney Peterson					PHONE NO: (206) 903.3396						OF 4	
PROJECT: Jeld-Wen					SITE/PWSID/WBS #:							
REPORTS TO:												
EMAIL: labdata@anchoragea.com												
INVOICE TO:					QUOTE #							
					P.O. NUMBER							
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	SAMPLE TYPE	PRESERVATIVE USED	ANALYSIS REQUIRED				REMARKS
1	JW-EA04-SC13-A-130423	4/23/13	1035	Seeds	2	G			X	X		
2	JW-EA04-SC13-B-130423		1020		2				X	X		
3	JW-EA04-SC13-C-130423		1040		2				X	X		
4	JW-EA04-SC13-D-130423		1050		1					X		
5	JW-EA04-SC13-E-130423		1115		1					X		
6	JW-EA04-SC13-F-130423		1055		1					X		
7	JW-EA04-SC13-G-130423		1120		1					X		
8	JW-EA04-SC13-H-130423		1059		1					X		
9	JW-EA04-SC13-I-130423		1125		1					X		
10	JW-EA04-SC23-A-130423		1145		2				X	X		
COLLECTED/RELINQUISHED BY: (1)		DATE	TIME	RECEIVED BY:		REPORT LEVEL:		REQUESTED TURNAROUND TIME:				
<i>[Signature]</i>		4/24/13	1230			<input type="checkbox"/> Level I <input type="checkbox"/> Level II <input checked="" type="checkbox"/> Level IV <input type="checkbox"/> Rush: _____ <input checked="" type="checkbox"/> Standard						
Relinquished By: (2)		Date	Time	Received By:		SPECIAL DELIVERABLES:		State of Origin: _____ <input type="checkbox"/> Trust Fund				
						<input type="checkbox"/> DoD <input checked="" type="checkbox"/> EDD: <i>Custom Equis</i> Other: _____						
Relinquished By: (3)		Date	Time	Received By:		SPECIAL INSTRUCTIONS:						
Received For Laboratory By:		Date	Time	CoC Seal: <u>INTACT</u> BROKEN ABSENT		Shipping Carrier:		Notes:				
<i>Barbara Hagen</i>		4/25/13	1000	Sample Receipt Temp: <i>CS 7.59</i>								

SGS-00055 (06/12)

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

White - Retained by Lab
 Yellow - Retained by Client
 → align to *APL*

⊛ Composite together for: JW-EA04-SC13-EF-130423

⊛ 4/24/2013



Project Initiation Form

Project Number: A5950

Initiation Date: 25-Sep-13

Client Name: ANCHOR QEA

Sample Matrix: Sediment

Analysis Method: 1613 PCDD/F

TAT: 21 days

Project Manager: Amy

Special Instructions

M1613 - OPR
 Composite samples 001 & 002 w/ new sample ID:
 JW-EA04-SC13-EF-130423
 Send aliquot of composite to ARI for TOC & TS

Reporting Instructions

M1613 17+ Homologs
 WHO TEFs
 Composite samples 001 & 002 w/ new sample ID:
 JW-EA04-SC13-EF-130423
 Equis-Anchor EDD

PM Initials: akornegay Date: 25-Sep-2013



1613 PCDD/F

Solids

EC 10
MNH 18-1-13

Project # A5950 Batch # 11363 Extract Init/Date: Jul 9/28/13 ASECS Init/Date: 9-30-13 Transfer Init/Date: 11/18-10-1-13

AP Sample ID	Client Sample ID	Extract WT (g)	SDS # Tox	RV		(Td) 20µl	ASECS #	Observations
				Initials	#			
A5950_11363_003	JW-EA04-SC13-EF-130423	12.77	22	MJK	3	OP	10	Dark Brown Grit, moist
MB1_11363	Method Blank	10.00	20	MJK	3	OP	12	Hydromatrix 09182013
OPRI_11363	0_11363_OPR001	10.00	21	MJK	3	OP	11	Hydromatrix 09182013
						9/30/13	9-30-13	

Special Instructions	Cycle Time	Supply IDs
M1613 - OPR Composite samples 001 & 002 w/ new sample ID: JW-EA04-SC13-EF-130423 Send aliquot of composite to ARI for TOC & TS	Start 5:00 pm Stop 9:00 AM	Toluene <u>D1847</u> Acid Silica <u>09282013</u> CH ₂ Cl ₂ <u>D1901</u> Base Silica <u>09252013</u> Sand <u>NA</u> HydroMatrix <u>09182013</u> Florisil <u>09282013</u> Tetradecane <u>04112013</u> Hexane <u>D1882</u> Na ₂ SO ₄ H ₂ SO ₄ <u>09182013</u> Silica <u>08282013</u> AgNO ₃ *Silicite <u>09232013</u>



1613 PCDD/F

Solid

Project # A5950 Batch # 11363

Inter-Department Communication Sheet

eeAD 070CT13

Special Instructions

M1613 - OPR
Composite samples 001 & 002 w/ new sample ID:
JW-EA04-SC13-EF-130423
Send aliquot of composite to ARI for TOC & TS

Project #		Batch #		Spike Profile PCDD/Fs			
Analyte	Spike Compounds	Spiked Amount	Spiked Volume	Solution Conc.	Split Factor	Final Volume	Final Solvent
PCDD/F	ES	2 ng	200 uL	10 pg/uL	1	20 uL	Td
	AS/CS	2 ng	200 uL	10 pg/uL	1	20 uL	Td
	Ax BCS3	0.2 ng	200 uL	1 pg/uL	1	20 uL	Td
	JS	2 ng	200 uL	10 pg/uL	1	20 uL	Td
	Td Batch CS3		20 uL			20 uL	Td
Spiker Initials/Date:		MA 9/28/13	MA 9/28/13	MA 9/28/13	MA 9/30/13	MA 9/30/13	MA 10/1/13
AP Sample ID	Client Sample ID	PCDD/F ES	PCDD/F Ax-A	PCDD/F Ax-B	PCDD/F CS	PCDD/F AS	PCDD/F JS
		Amount: 200uL	Amount: 200uL	Amount: 20uL	Amount: 20uL	Amount: 20uL	Amount: 200uL
		Observer Initials	Observer Initials	Observer Initials	Observer Initials	Observer Initials	Observer Initials
A5950_11363_003	JW-EA04-SC13-EF-130423	mn1	-	-	an	an	an
MB1_11363	Method Blank	mn1	-	-	an	an	an
OPRI_11363	0_11363_OPR001	mn1	mn1	mn1	an	an	an
		9-28-13	9-28-13	9-28-13	9-30-13	9-30-13	10-1-13
Standard Information							
Std. Type		ES	Ax-A	Ax-B	CS	AS	JS
Spike ID		07172013	11012012C	-	1101202C	1101202C	11012012B
SIL #		13-43-2	13-58-1	13-13-1	13-43-1	13-43-2	13-43-3
Concentration		10	1	10	4	10	10
Units		pg/uL	pg/uL	pg/uL	pg/uL	pg/uL	pg/uL
Exp. Date		7-19-14	8-8-14	3-27-15	7-19-14	7-19-14	7-19-14
Spike amount (uL)		200	200	20	200	200	200

TRANSFER: M. S. 10-1-13
 RECEIVED: M. S. 10-1-13

*EE an 9-30-13

Boehm, Amy (Wilmington)

From: Delaney Peterson [dpeterson@anchorqea.com]
Sent: Monday, September 23, 2013 2:26 PM
To: Boehm, Amy (Wilmington)
Cc: Cindy Fields
Subject: RE: Jeld-Wen Triggers

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Amy,

I sent you some incorrect information. There will be three samples for analysis and we used letter designations for depths instead of actual depths.

Please composite and analyze samples JW-EA04-SC13-E-130423 and JW-EA04-SC13-F-130423 into JW-EA04-SC13-EF-130423 for dioxins.

Please analyze samples JW-EA09-SC36-B-130426 and JW-EA09-SC36-C-130426 for dioxins.

We will also need aliquots of these samples sent to ARI for TOC and TS analyses.

Sorry for the confusion.

Thanks,
 Delaney

From: Boehm, Amy (Wilmington) [mailto: Amy.Boehm@sgs.com]
Sent: Monday, September 23, 2013 10:09 AM
To: Delaney Peterson
Cc: Cindy Fields
Subject: RE: Jeld-Wen Triggers

Hi Delaney – Will do. I'll get that set up as soon as I get the folder tomorrow, and will send login detail then as well.

Thanks!
 Amy

From: Delaney Peterson [mailto: dpeterson@anchorqea.com]
Sent: Monday, September 23, 2013 1:07 PM
To: Boehm, Amy (Wilmington)
Cc: Cindy Fields
Subject: FW: Jeld-Wen Triggers

Hi Amy,

Will you please have the labs composite equal aliquots of these samples and trigger them for dioxins analyses?

- JW-EA04-SC13-7-8 and JW-EA04-SC13-8-9
- JW-EA09-SC36-2-4 and JW-EA09-SC36-4-6

Please let me know if you have questions or need more info.

Thanks!

Delaney

Handwritten signature and initials, possibly 'Cindy Fields', with a question mark below it.

From: Nathan Soccorsy
Sent: Monday, September 23, 2013 9:24 AM
To: Delaney Peterson; Cindy Fields
Subject: Jeld-Wen Triggers

Delaney and Cindy –

In addition to the samples submitted to sgs this week, we also need to analyze the following intervals for Dioxin Furan, TS and TOC.

1. The laboratory will need to composite equal aliquots from intervals JW-EA04-SC13-7-8 and JW-EA04-SC13-8-9. I think the TS TOC is archived at ARI so they will need to lab composite as well
2. Two intervals from JW-EA09-SC36 (DF at SGS, TS/TOC at ARI)
 - a. JW-EA09-SC36-2-4
 - b. JW-EA09-SC36-4-6

Thanks,

Nathan Soccorsy
ANCHOR QEA, LLC
nsoccorsy@anchorqea.com
720 Olive Way, Suite 1900
Seattle, Washington 98101
D 206.903.3385
T 206.287.9130
F 206.287.9131
C 480.272.2805
ANCHOR QEA, LLC
www.anchorqea.com

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Boehm, Amy (Wilmington)

From: Delaney Peterson [dpeterson@anchorqea.com]
Sent: Wednesday, September 25, 2013 3:15 PM
To: Boehm, Amy (Wilmington)
Cc: Cindy Fields
Subject: RE: Jeld-Wen Triggers

Importance: High

Hi Amy,
 Nathan just left you a message but I wanted to follow up with an email about these samples.

The composite sample needs to be analyzed for dioxins but the **two samples from JW-EA09-SC36 need to be analyzed for PCB congeners instead of dioxins.**

So sorry about that. Hopefully they haven't gotten too far in the extraction/analysis. Let me know if there is anything else we need to do.

Thanks,
 Delaney

From: Delaney Peterson
Sent: Monday, September 23, 2013 11:26 AM
To: 'Boehm, Amy (Wilmington)'
Cc: Cindy Fields
Subject: RE: Jeld-Wen Triggers

Hi Amy,
 I sent you some incorrect information. There will be three samples for analysis and we used letter designations for depths instead of actual depths.

Please composite and analyze samples JW-EA04-SC13-E-130423 and JW-EA04-SC13-F-130423 into JW-EA04-SC13-EF-130423 for dioxins.

Please analyze samples JW-EA09-SC36-B-130426 and JW-EA09-SC36-C-130426 for dioxins.

We will also need aliquots of these samples sent to ARI for TOC and TS analyses.

Sorry for the confusion.
 Thanks,
 Delaney

From: Boehm, Amy (Wilmington) [mailto:Amy.Boehm@sgs.com]
Sent: Monday, September 23, 2013 10:09 AM
To: Delaney Peterson
Cc: Cindy Fields
Subject: RE: Jeld-Wen Triggers

Hi Delaney – Will do. I'll get that set up as soon as I get the folder tomorrow, and will send login detail then as well.

Thanks!

SGS Analytical Perspectives — Run Log

Project: A5950_11363_DF

Instrument: MM1 (AutoSpec-Ultima)

MS Experiment: DF_CL4-8B

GC Program: DB5MS_60M

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
1	131004P1-01	7	CS3_131004_DF_PA	1.00	11012012A	MDC	361-120	04-OCT-2013	13:32:45
2	131004P1-02	2	OPR1_11363_DF	1.00	0_11363_OPR001	MDC	535-838	04-OCT-2013	14:25:13
3	131004P1-03	15	SBS_131004_DF_PA	1.00	solvent blank	MDC	055-746	04-OCT-2013	15:17:50
4	131004P1-04	1	MB1_11363_DF_SDS	10.00	Method Blank	MDC	004-836	04-OCT-2013	16:10:23
5	131004P1-05	3	A5950_11363_DF_003	10.02	JW-EA04-SC13-EF-130423	MDC	067-970	04-OCT-2013	17:02:57
6	131004P1-06	7	CS3_131004_DF_PB	1.00	11012012A	MDC	011-956	04-OCT-2013	17:55:25

REVIEWED*By Michael D H Chu at 11:12 am, Oct 05, 2013***APPROVED***By Amy Boehm at 1:28 pm, Oct 08, 2013*

Lab ID: MB1_11363_DF_SDS

Acq'd: 04 Oct 2013 16:10 MDC

Wt/Vol: 10.00 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: Method Blank A5950

UTP: 05-Oct-2013 10:57 MDC

J-level: 0.5 pg/g Split: 1

Checkcode: 004-836-RNG

Datafile: 131004P1-04

Report: 05 Oct 2013 11:01 MC

StdS (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37CI)

Name	Act RT	QC	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Conc.	Noise	DL
2378-TCDD	NotFnd		1.0009	-		-	-	-	1.18	-	2303	0.105
12378-PeCDD	NotFnd		1.0006	-		-	-	-	1.07	-	2407	0.118
123478-HxCDD	NotFnd		1.0004	-		-	-	-	1.19	-	2757	0.129
123678-HxCDD	NotFnd		1.0039	-		-	-	-	1.19	-	2757	0.143
123789-HxCDD	NotFnd		1.0127	-		-	-	-	1.12	-	2757	0.138
1234678-HpCDD	NotFnd		1.0003	-		-	-	-	1.08	-	2858	0.148
OCDD	NotFnd		1.0004	-		-	-	-	1.14	-	3127	0.351
2378-TCDF	NotFnd		1.0010	-		-	-	-	1.10	-	3049	0.0989
12378-PeCDF	NotFnd		1.0006	-		-	-	-	1.17	-	3003	0.0916
23478-PeCDF	NotFnd		1.0006	-		-	-	-	1.14	-	3003	0.0965
123478-HxCDF	NotFnd		1.0005	-		-	-	-	1.34	-	2780	0.0837
123678-HxCDF	NotFnd		1.0005	-		-	-	-	1.23	-	2780	0.0804
234678-HxCDF	NotFnd		1.0005	-		-	-	-	1.26	-	2780	0.0844
123789-HxCDF	NotFnd		1.0005	-		-	-	-	1.23	-	2780	0.104
1234678-HpCDF	NotFnd		1.0004	-		-	-	-	1.42	-	2738	0.0925
1234789-HpCDF	NotFnd		1.0004	-		-	-	-	1.39	-	2738	0.108
OCDF	NotFnd		1.0004	-		-	-	-	1.11	-	2219	0.172

Name	Act RT	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Rec. %
ES 2378-TCDD	27.44	1.0280	1.0281	+0.2	4.53E+07	0.81	Y	1.02	92.9
ES 12378-PeCDD	33.75	1.2637	1.2644	+1.1	3.89E+07	1.60	Y	0.92	89
ES 123478-HxCDD	38.41	0.9909	0.9909	0	3.09E+07	1.13	Y	1.02	83.8
ES 123678-HxCDD	38.54	0.9944	0.9943	-0.2	3.09E+07	1.14	Y	1.01	85.1
ES 123789-HxCDD	38.88	1.0030	1.0031	+0.2	3.43E+07	1.11	Y	1.14	83.4
ES 1234678-HpCDD	42.58	1.0983	1.0984	+0.2	3.05E+07	1.05	Y	1.02	82.8
ES OCDD	46.32	1.1946	1.1949	+0.7	3.38E+07	0.88	Y	0.72	65.1
ES 2378-TCDF	26.45	1.0616	1.0620	+0.6	7.18E+07	0.71	Y	1.01	91.1
ES 12378-PeCDF	32.01	1.2841	1.2853	+1.8	5.88E+07	1.40	Y	0.89	84.8
ES 23478-PeCDF	33.34	1.3373	1.3386	+1.9	5.87E+07	1.44	Y	0.91	82.8
ES 123478-HxCDF	37.24	0.9606	0.9606	0	4.76E+07	0.54	Y	1.53	86.3
ES 123678-HxCDF	37.40	0.9649	0.9649	0	5.54E+07	0.55	Y	1.73	88.9
ES 234678-HxCDF	38.19	0.9853	0.9852	-0.2	4.93E+07	0.55	Y	1.61	84.9
ES 123789-HxCDF	39.30	1.0138	1.0139	+0.2	4.51E+07	0.53	Y	1.39	89.7
ES 1234678-HpCDF	41.30	1.0653	1.0653	0	3.80E+07	0.43	Y	1.20	87.8
ES 1234789-HpCDF	43.19	1.1138	1.1140	+0.5	3.32E+07	0.44	Y	1.07	86.1
ES OCDF	46.56	1.2009	1.2011	+0.5	5.21E+07	0.91	Y	1.04	69.2

Lab ID: MB1_11363_DF_SDS

Acq'd: 04 Oct 2013 16:10 MDC

Wt/Vol: 10.00 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: Method Blank A5950

UTP: 05-Oct-2013 10:57 MDC

J-level: 0.5 pg/g Split: 1

Checkcode: 004-836-RNG

Datafile: 131004P1-04

Report: 05 Oct 2013 11:01 MC

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37Cl)

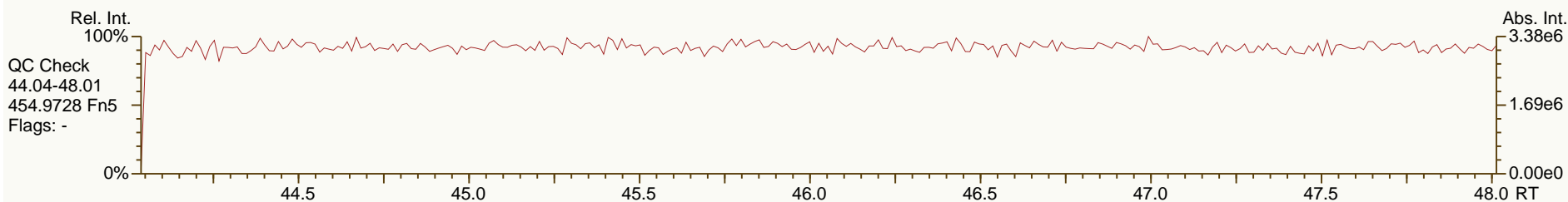
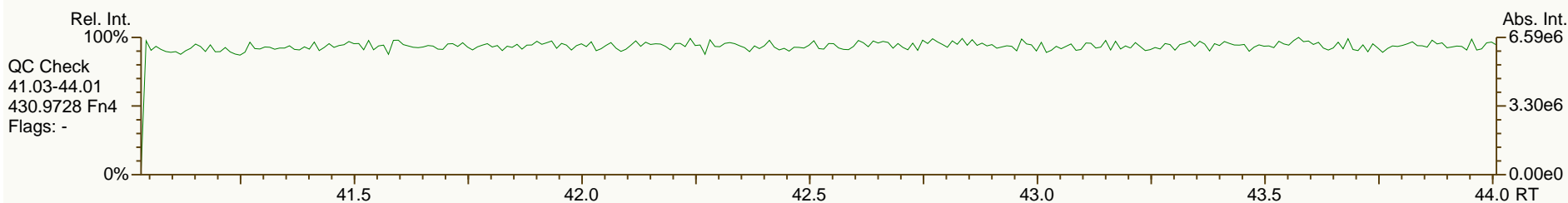
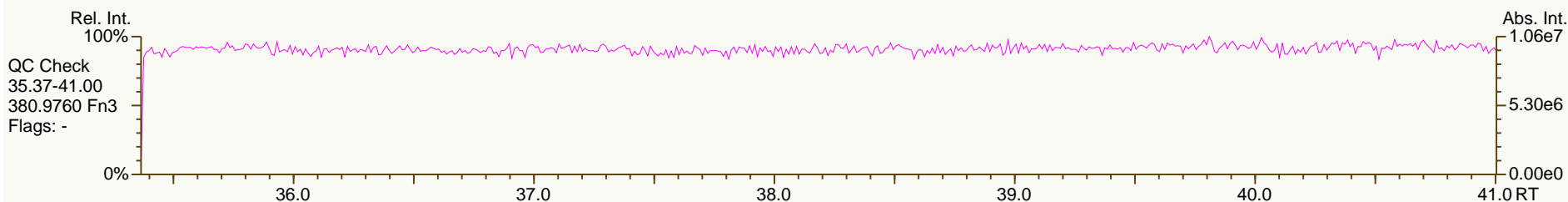
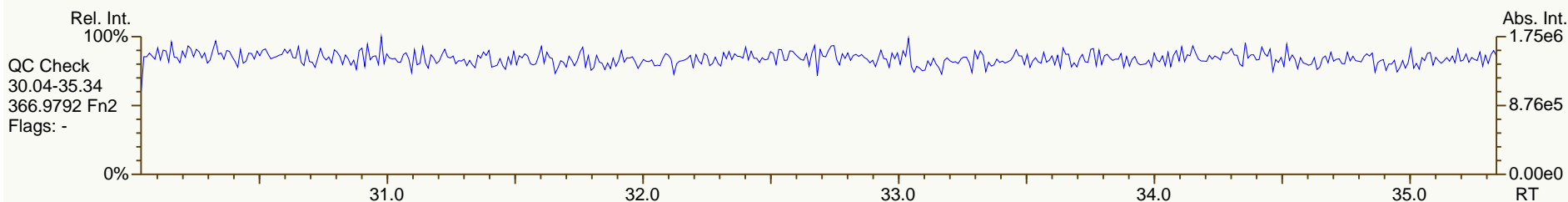
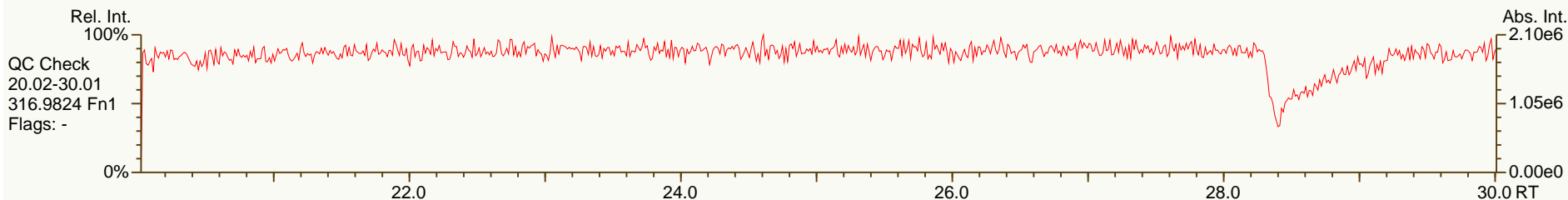
Name	Act RT	QC	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Rec. %
JS 1234-TCDD	26.69		-	-	-	4.76E+07	0.81	Y	-	-
JS 1234-TCDF	24.90		-	-	-	7.83E+07	0.72	Y	-	-
JS 123467-HxCDD	38.76		-	-	-	1.80E+07	1.12	Y	-	-
CS 37Cl-2378-TCDD	27.46		1.0289	1.0290	+0.2	2.10E+07	n/a	-	1.13	97.3
CS 12347-PeCDD	33.16		1.2414	1.2422	+1.3	4.00E+07	1.66	Y	0.88	96
CS 12346-PeCDF	31.39		1.2593	1.2603	+1.5	6.19E+07	1.41	Y	0.90	87.8
CS 123469-HxCDF	37.77		0.9744	0.9744	0	5.28E+07	0.56	Y	1.40	105
CS 1234689-HpCDF	41.86		1.0796	1.0798	+0.5	3.67E+07	0.44	Y	1.09	93.2
SS 37Cl-2378-TCDD	27.46		1.0289	1.0290	+0.2	2.10E+07	n/a	-	1.11	104
SS 12347-PeCDD	33.16		1.2414	1.2422	+1.3	4.00E+07	1.66	Y	0.96	107
SS 12346-PeCDF	31.39		1.2593	1.2603	+1.5	6.19E+07	1.41	Y	1.02	103
SS 123469-HxCDF	37.77		0.9744	0.9744	0	5.28E+07	0.56	Y	0.81	117
SS 1234689-HpCDF	41.86		1.0796	1.0798	+0.5	3.67E+07	0.44	Y	0.91	106
AS 1368-TCDD	23.31		0.8739	0.8732	-1.1	5.21E+07	0.80	Y	1.01	109
AS 1368-TCDF	21.11		0.8480	0.8476	-0.6	8.54E+07	0.73	Y	1.22	89.4
FS 1278-TCDD	NotFnd		1.0138							
FS 12478-PeCDD	NotFnd		0.9570							
FS 123468-HxCDD	NotFnd		0.9674							
FS 1234679-HpCDD	NotFnd		0.9788							
TS 1378-TCDD	NotFnd		0.9315							

Totals	Conc	EMPC
Total TCDD	0	0
Total PeCDD	0	0
Total HxCDD	0	0
Total HpCDD	0	0
Total Tetra-Octa Dioxins	0	0
Total TCDF	0	0
Total PeCDF	0	0
Total HxCDF	0	0
Total HpCDF	0	0
Total Tetra-Octa Furans	0	0
Total Tetra-Octa Dioxins & Furans	0	0

SGS-AP ID: MB1_11363_DF_SDS
Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 1

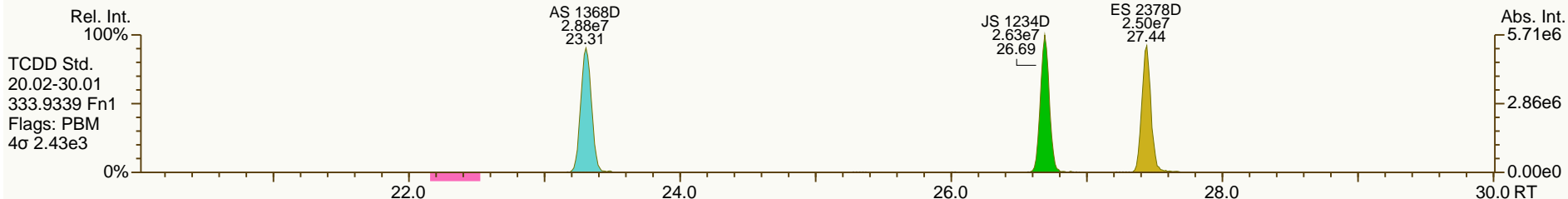
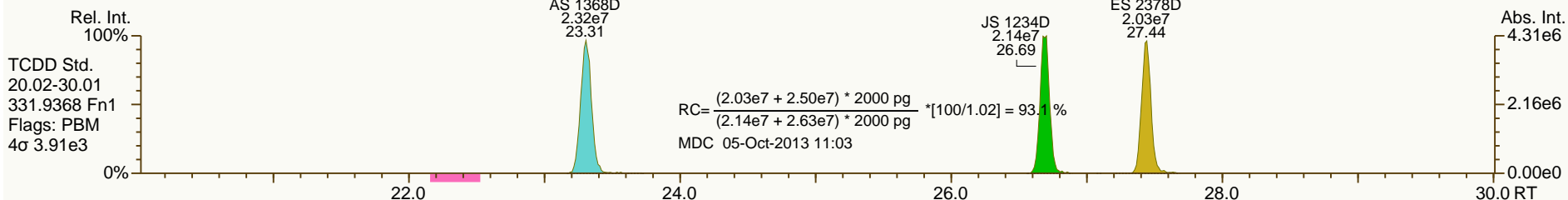
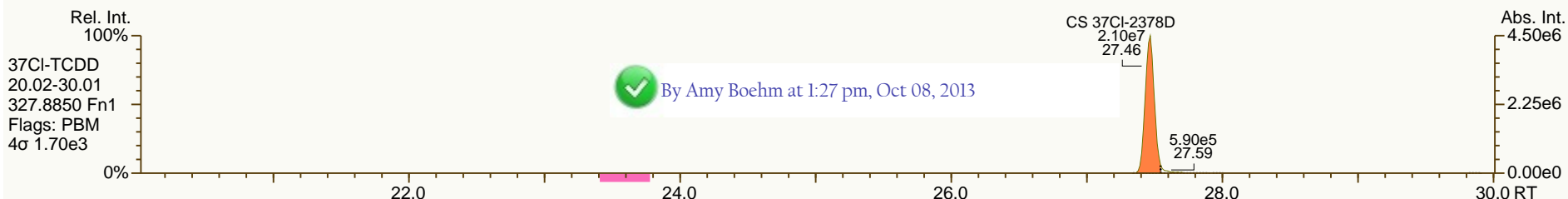
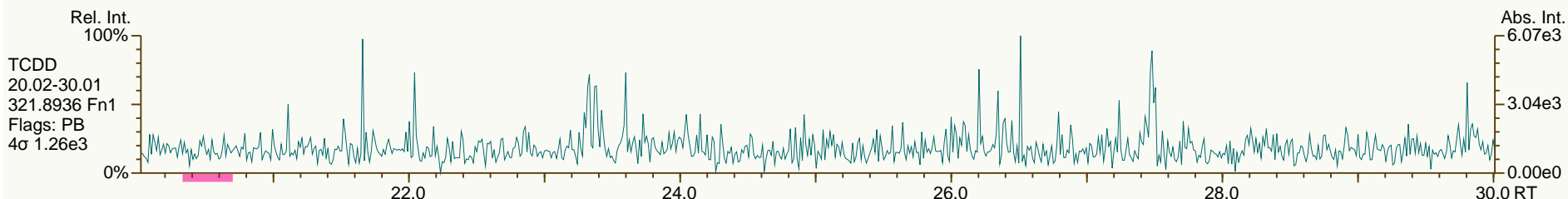
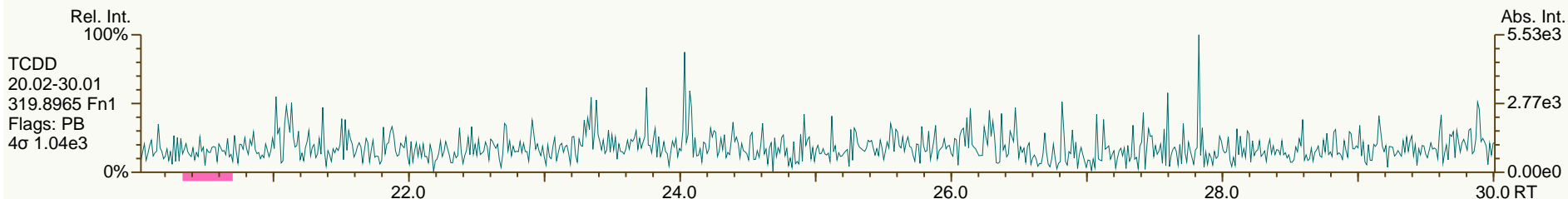
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User: MDC Datafile: 131004P1-04



SGS-AP ID: MB1_11363_DF_SDS
 Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 1

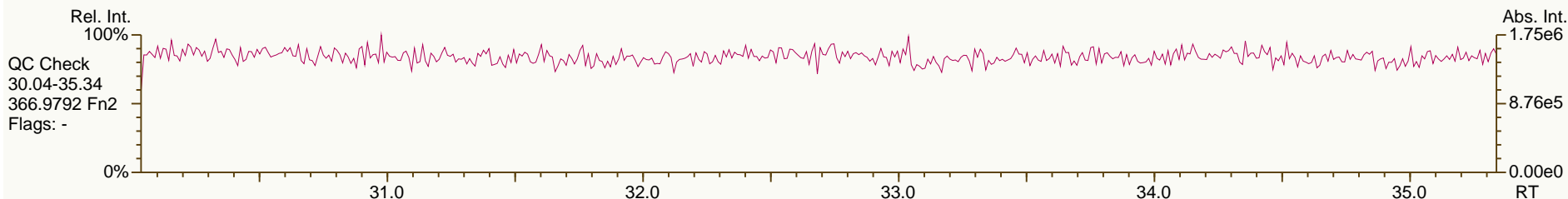
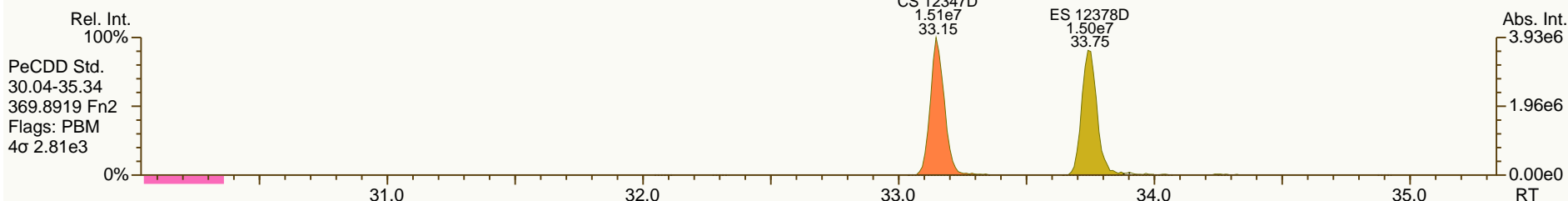
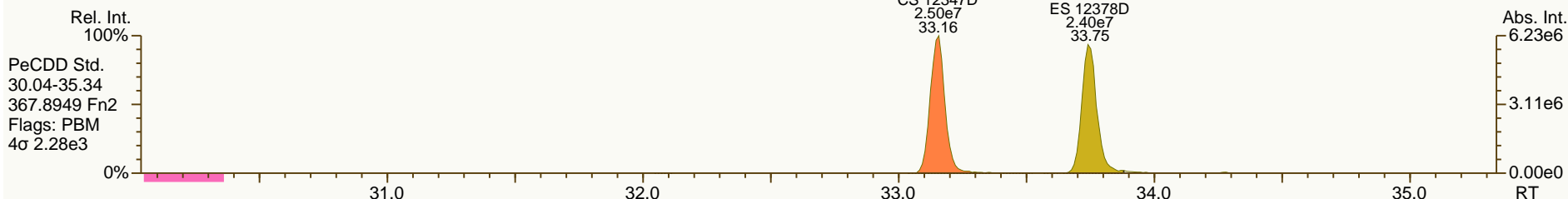
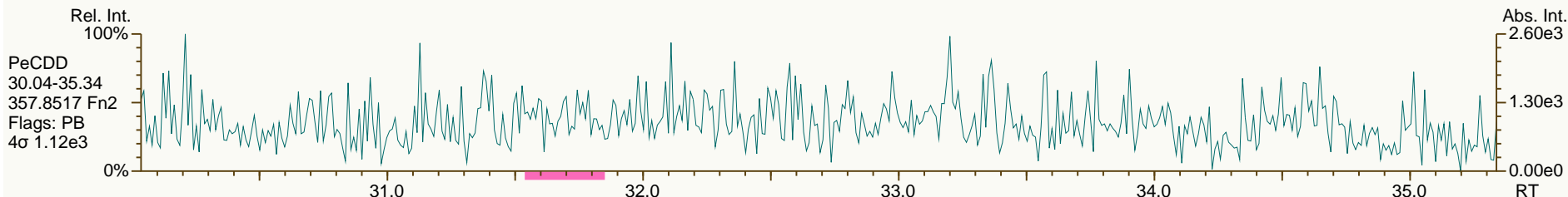
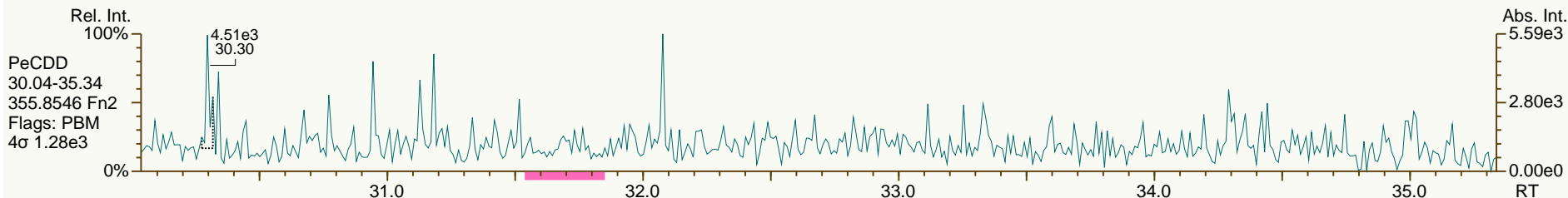
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SGS-AP ID: MB1_11363_DF_SDS
 Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 1

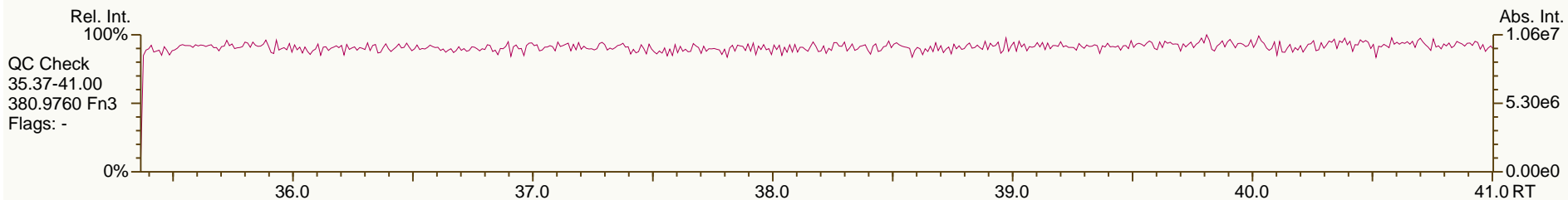
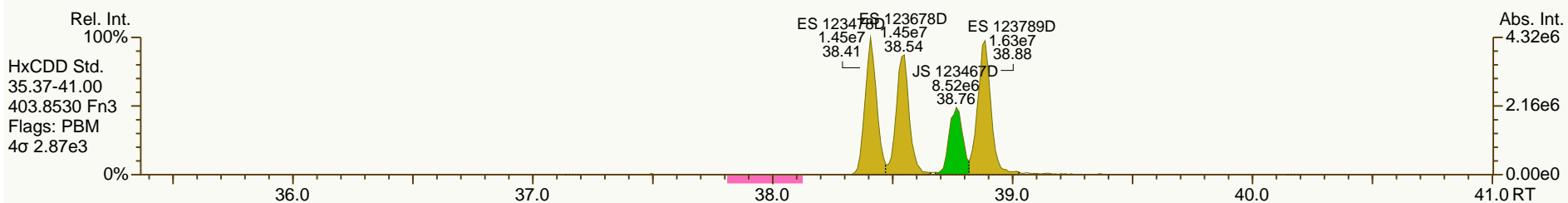
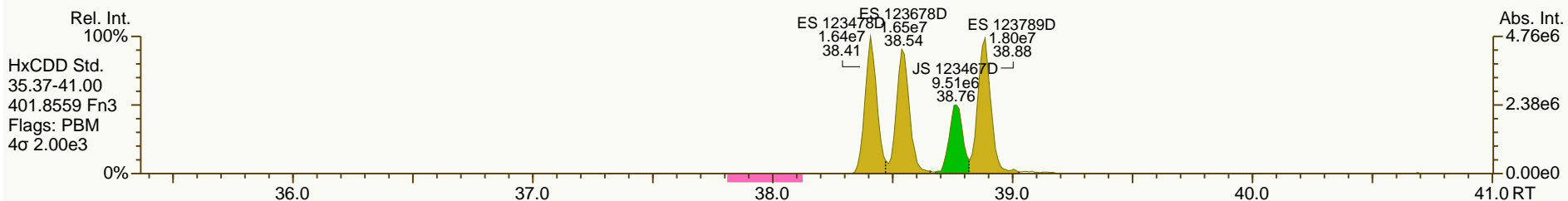
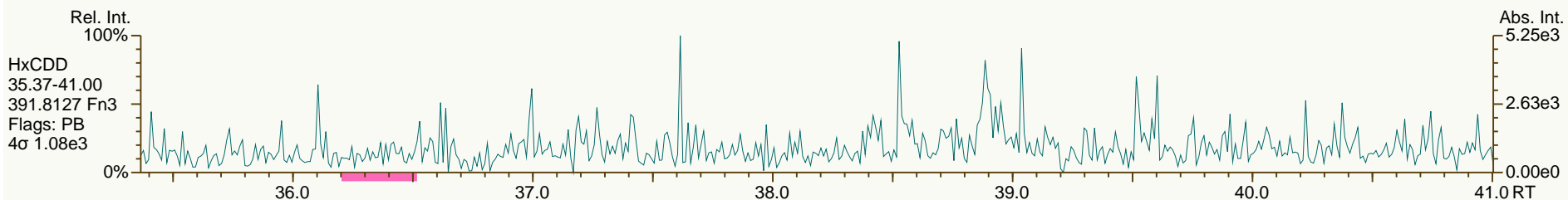
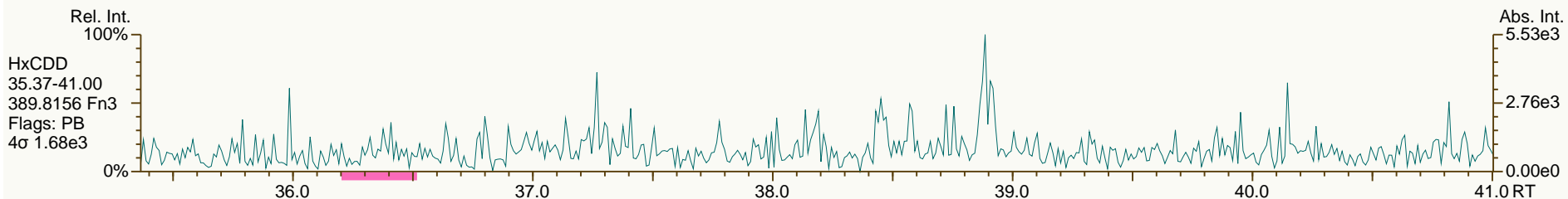
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SGS-AP ID: MB1_11363_DF_SDS
 Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 1

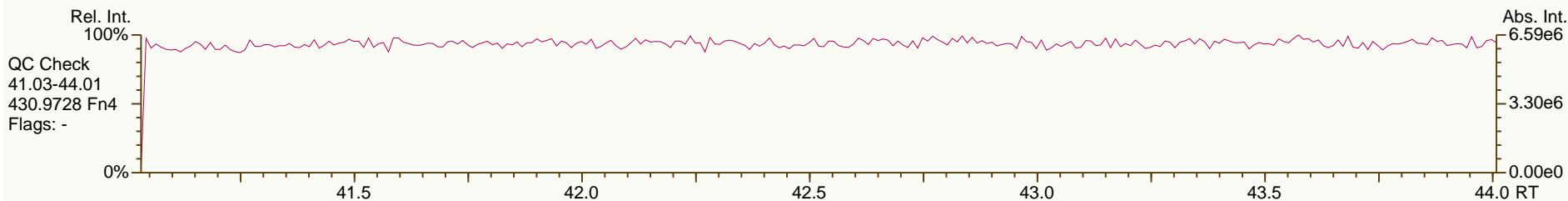
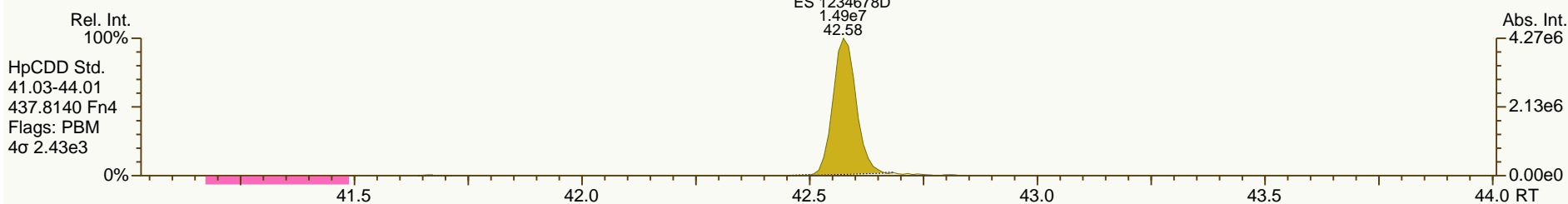
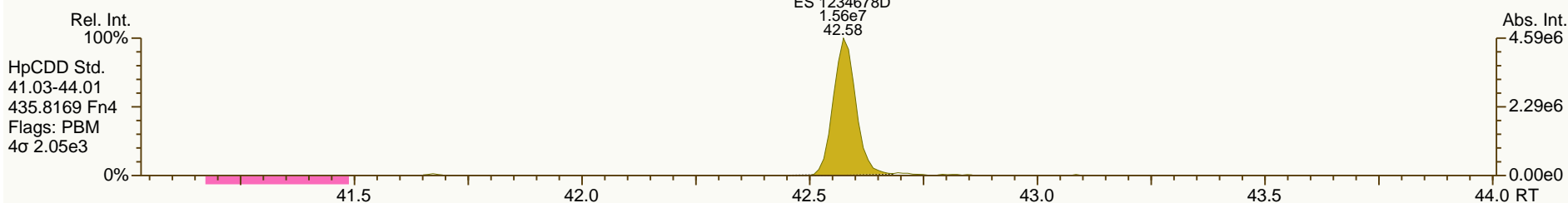
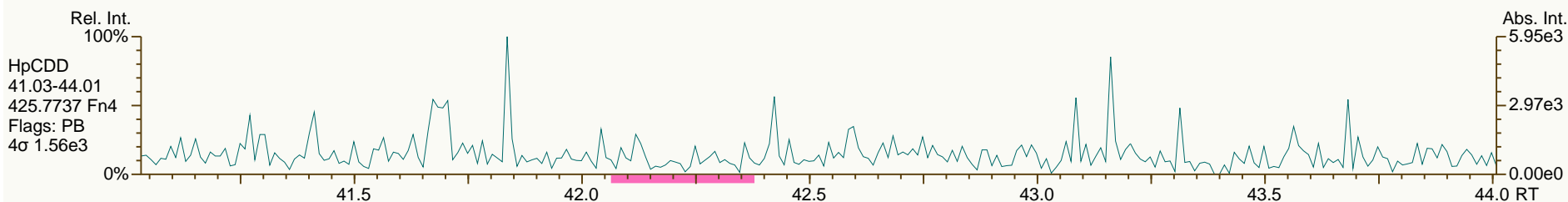
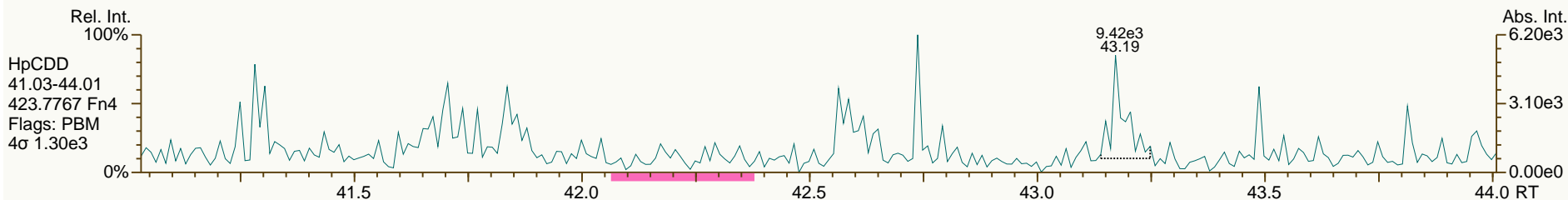
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SGS-AP ID: MB1_11363_DF_SDS
Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 1

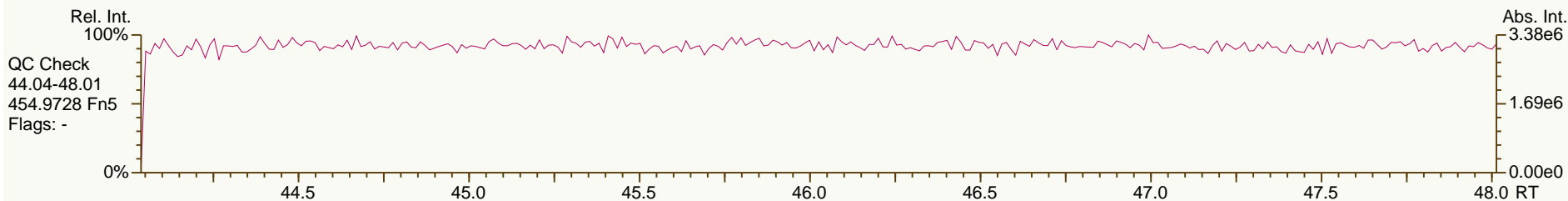
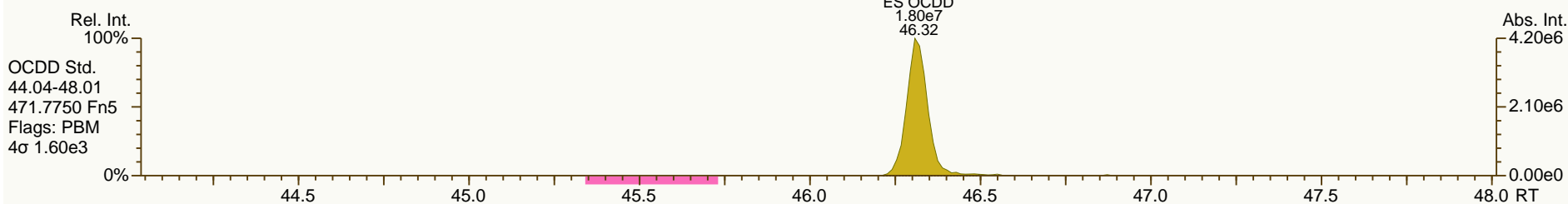
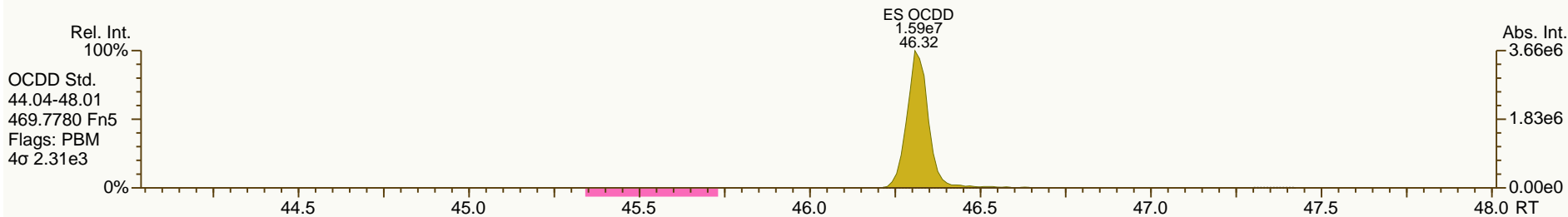
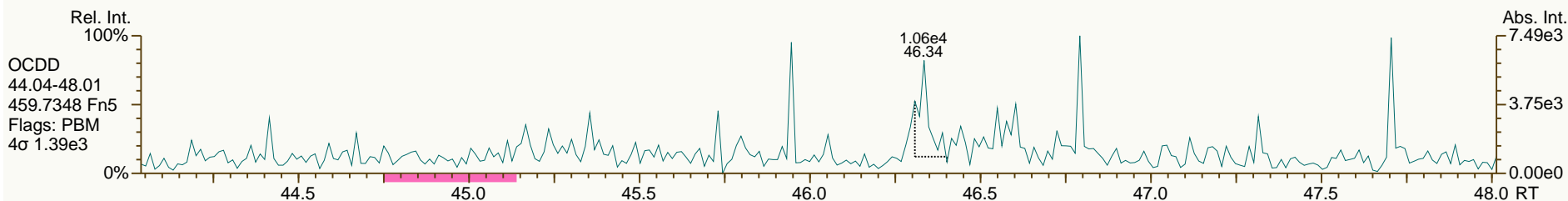
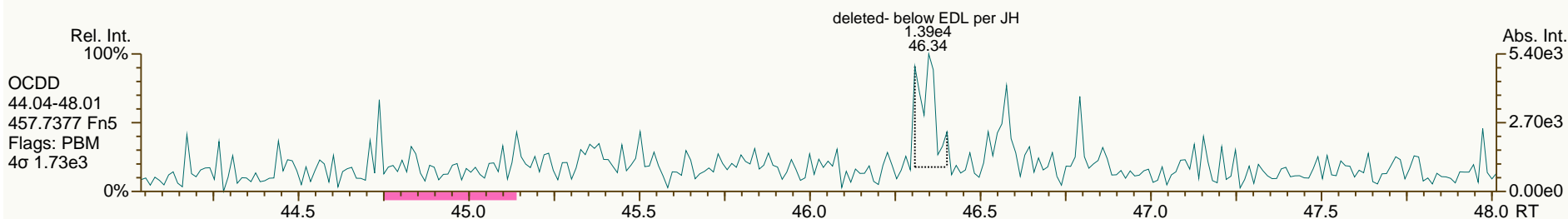
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SGS-AP ID: MB1_11363_DF_SDS
Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 1

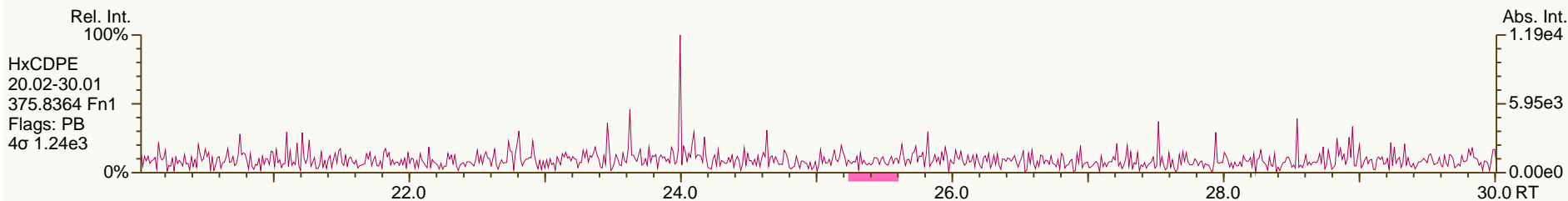
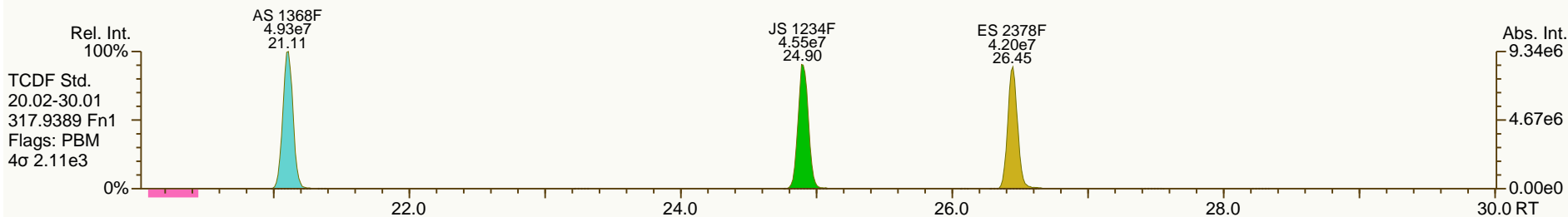
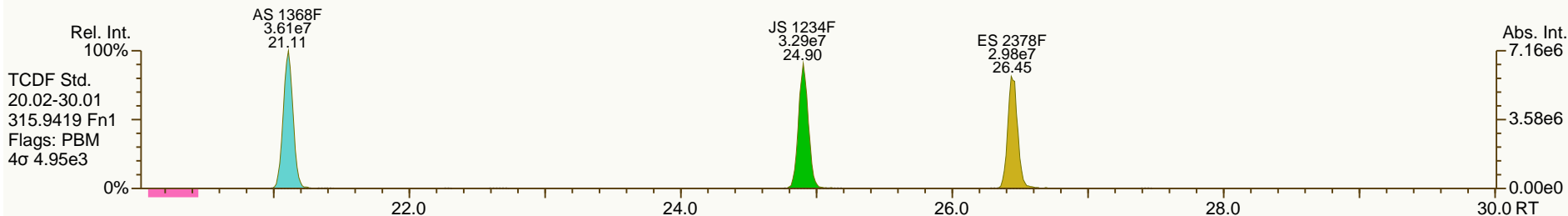
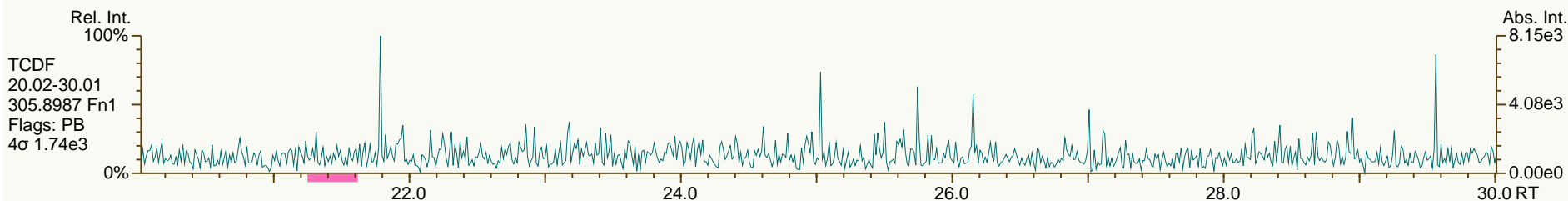
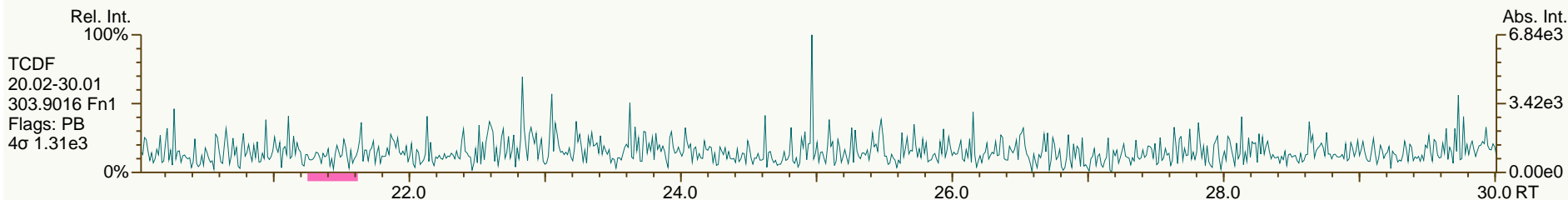
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SGS-AP ID: MB1_11363_DF_SDS
Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 1

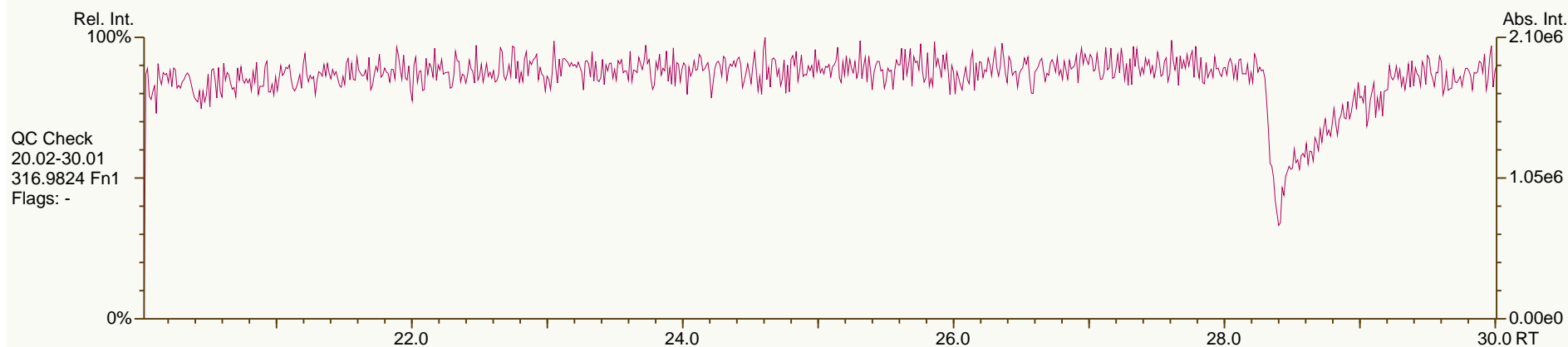
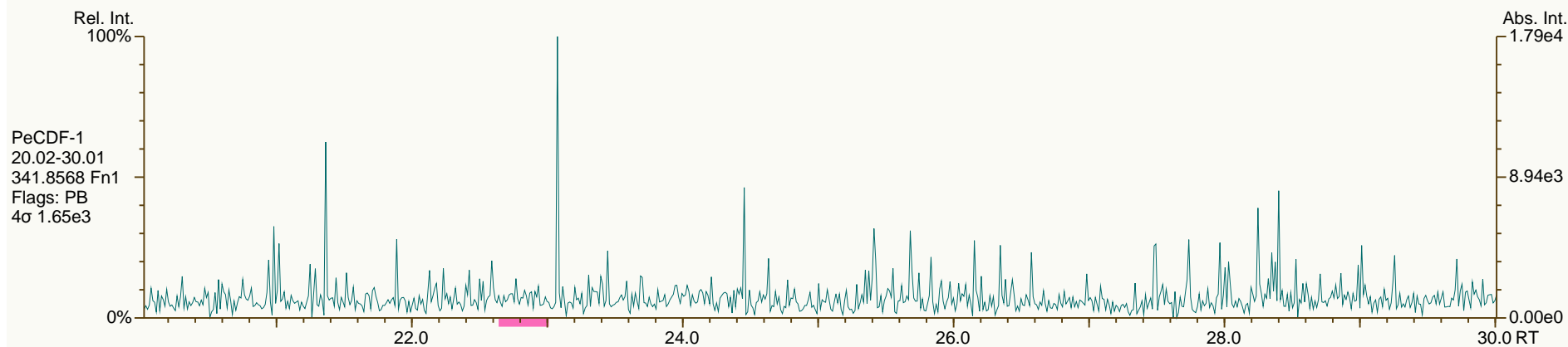
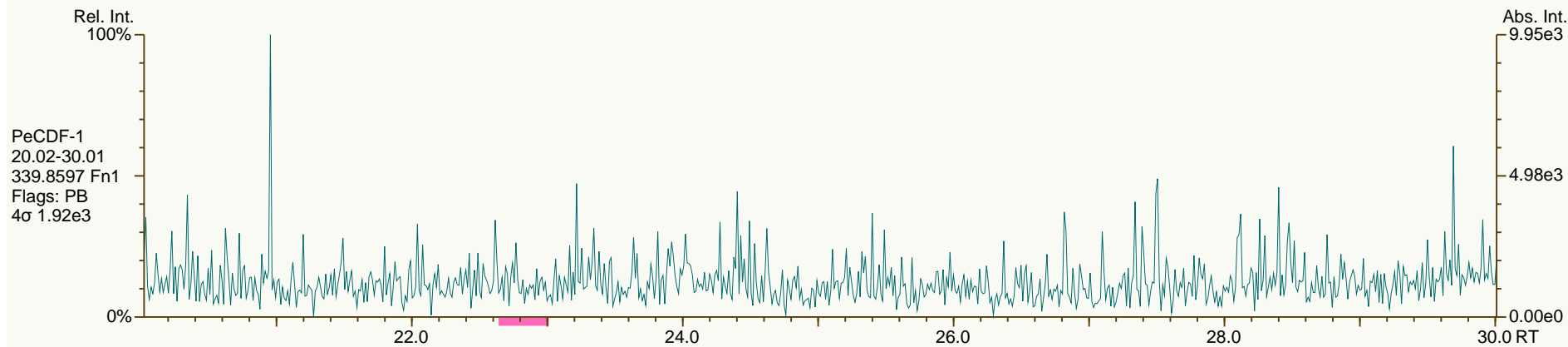
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SGS-AP ID: MB1_11363_DF_SDS
Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 1

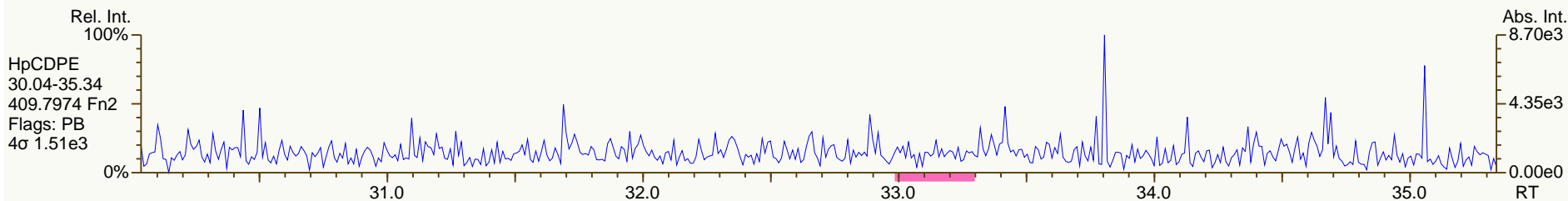
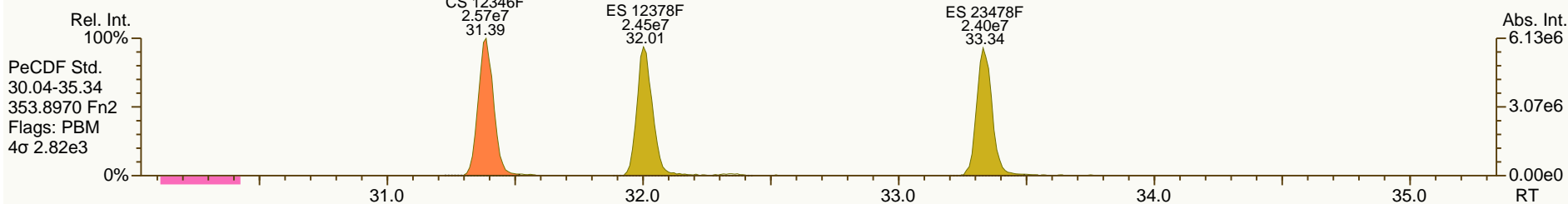
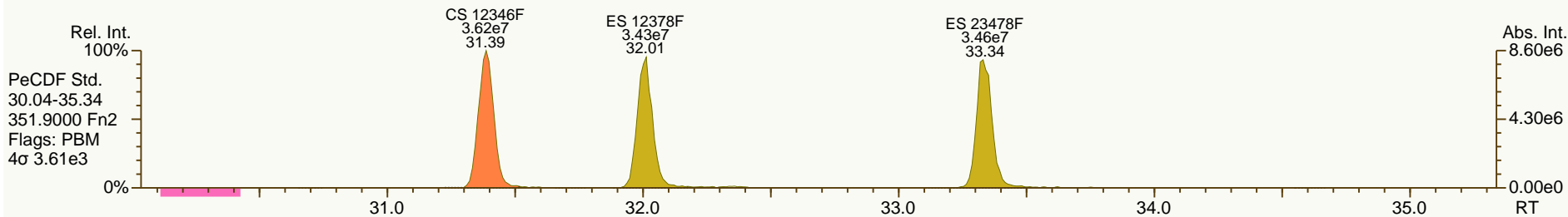
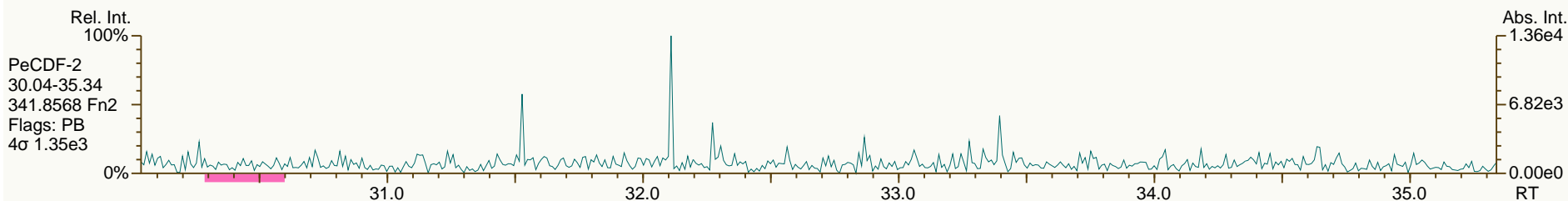
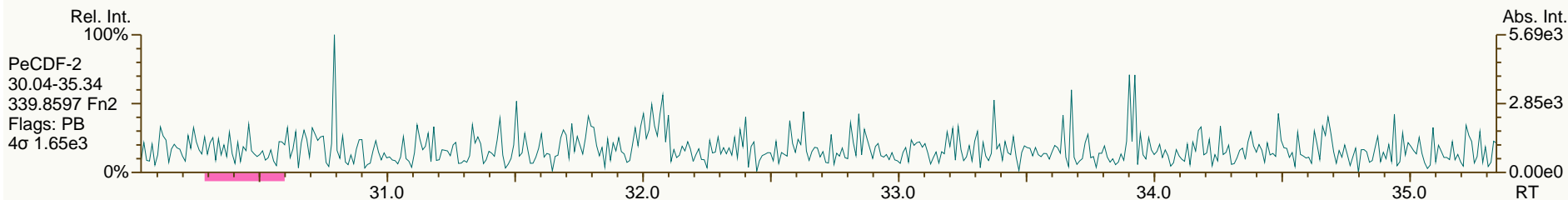
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SGS-AP ID: MB1_11363_DF_SDS
Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 1

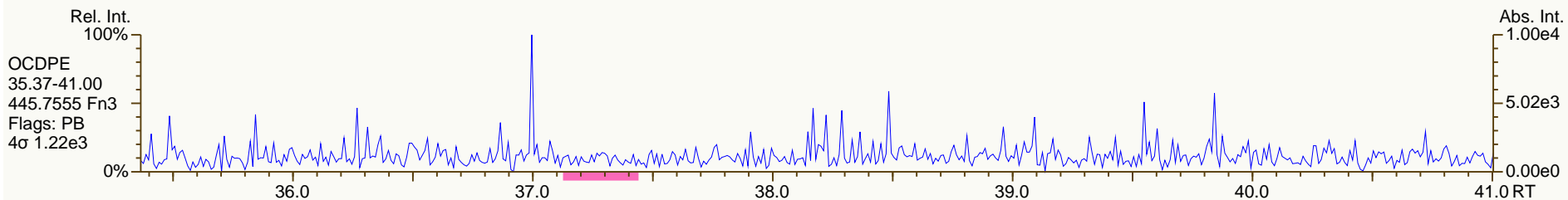
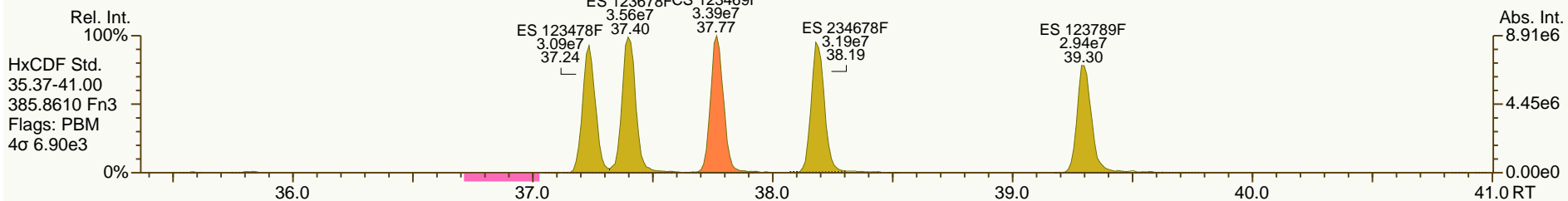
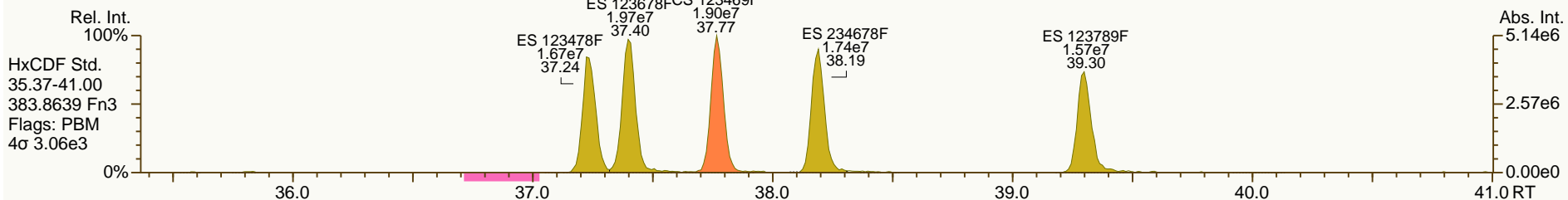
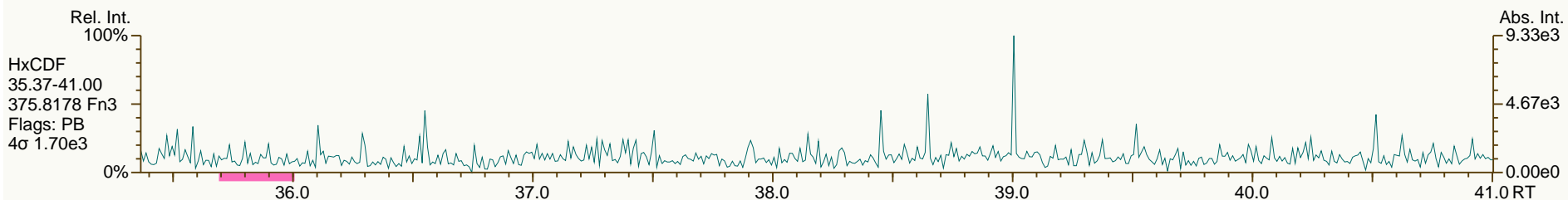
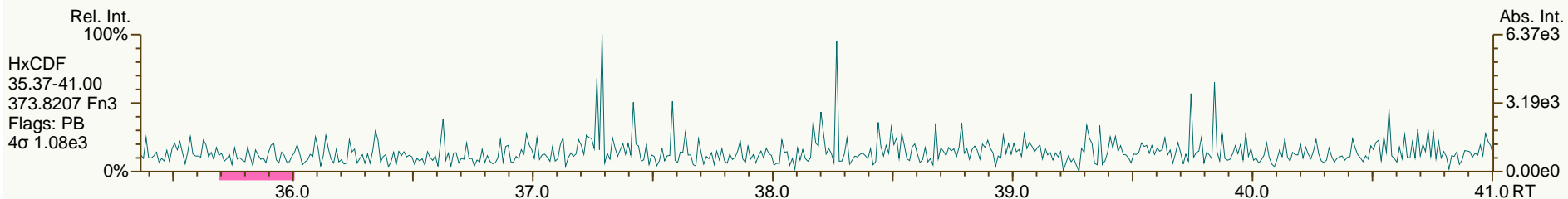
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SGS-AP ID: MB1_11363_DF_SDS
 Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 1

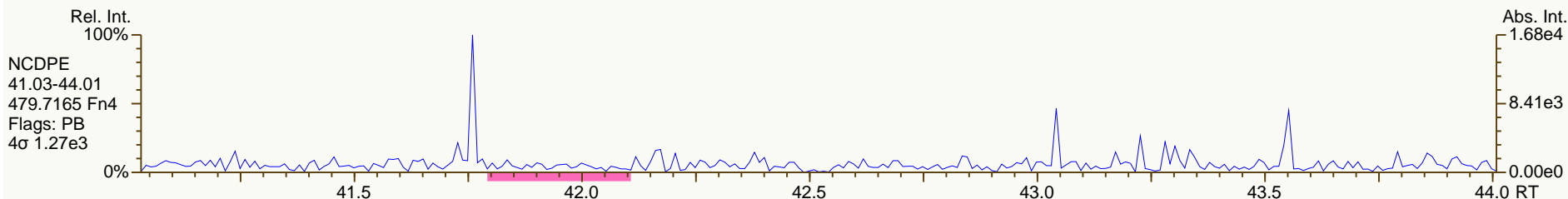
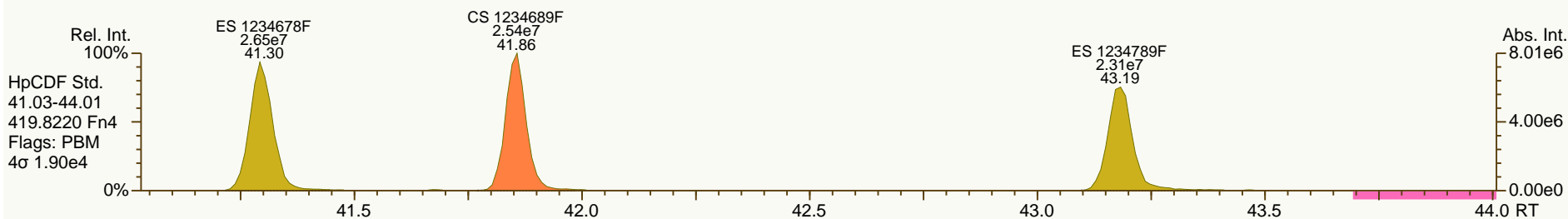
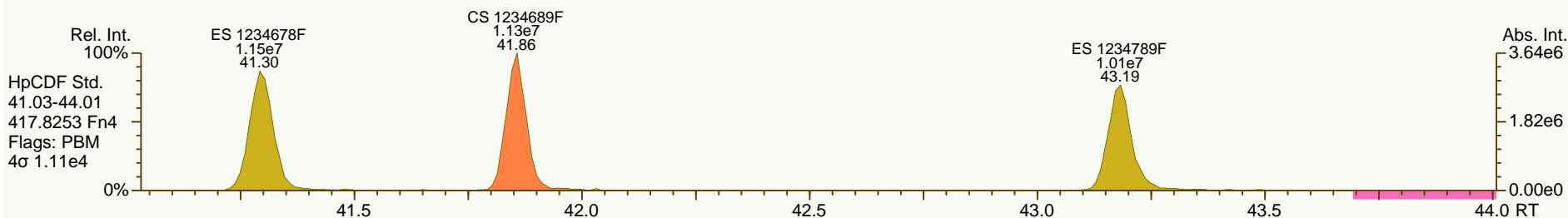
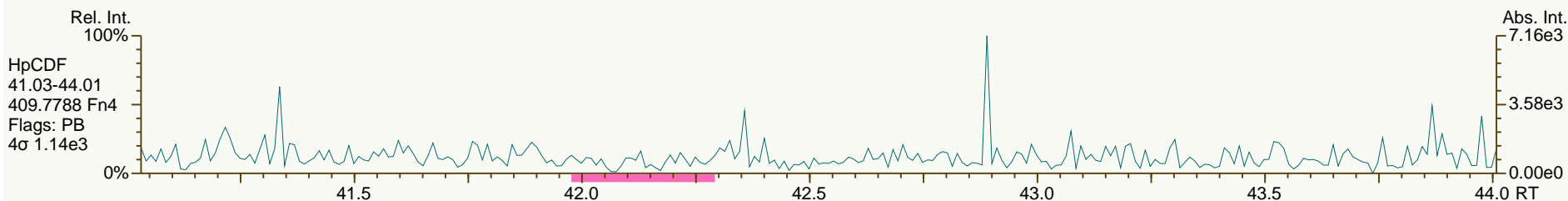
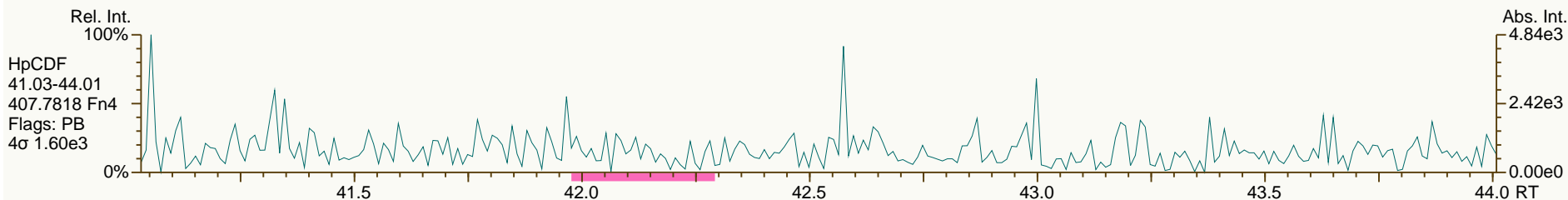
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SGS-AP ID: MB1_11363_DF_SDS
Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 1

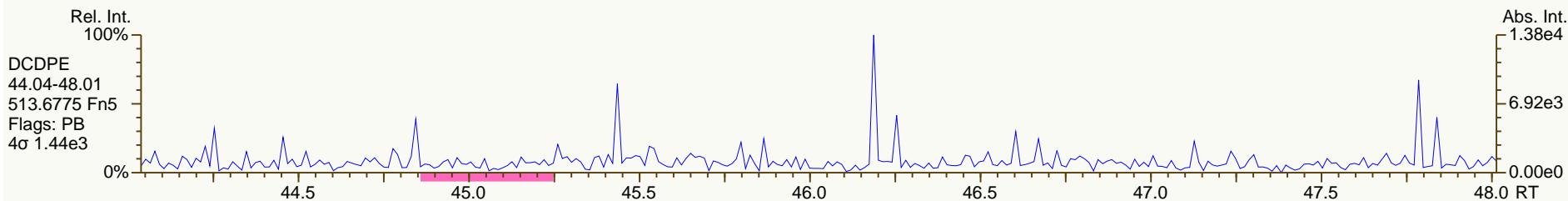
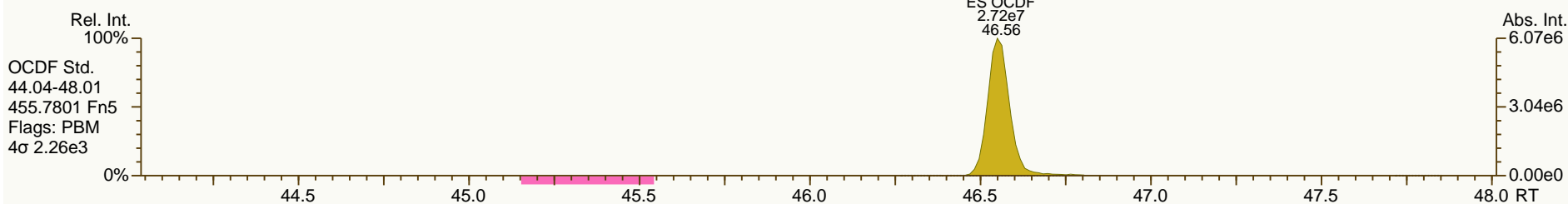
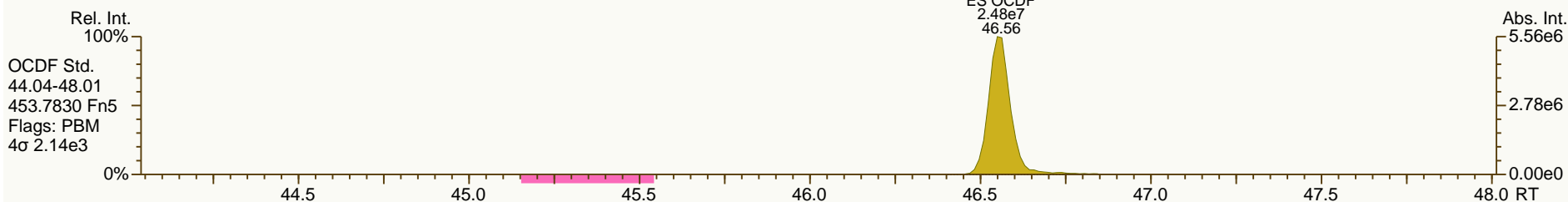
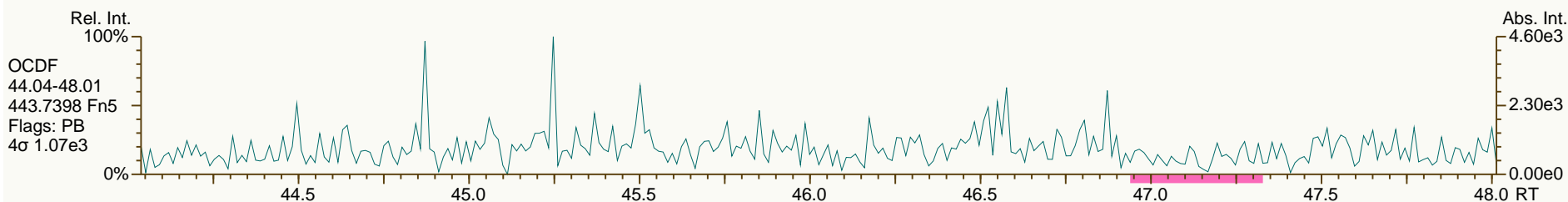
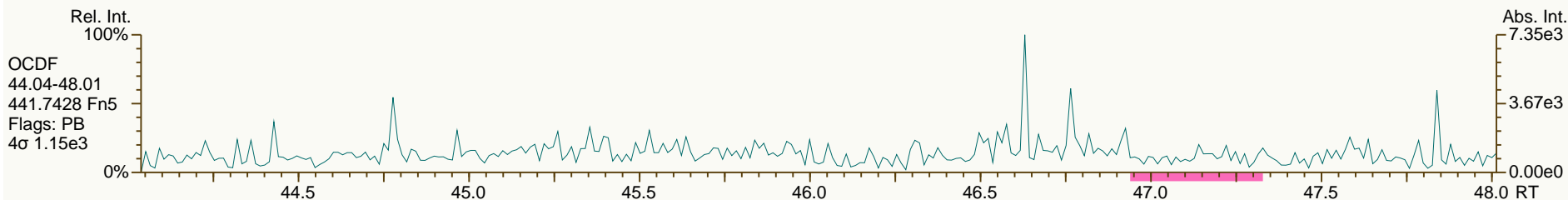
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SGS-AP ID: MB1_11363_DF_SDS
Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 1

Acq: 04-OCT-2013 16:10:23
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Lab ID: A5950_11363_DF_003

Acq'd: 04 Oct 2013 17:02 MDC

Wt/Vol: 10.02 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: JW-EA04-SC13-EF-130423

UTP: 05-Oct-2013 11:00 MDC

J-level: 0.499 pg/g

Split: 1

Checkcode: 067-970-YKJ

Datafile: 131004P1-05

Report: 05 Oct 2013 11:01 MC

StdS (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37CI)

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2378-TCDD	NotFnd		1.0009	-		-	-	-	1.18	-	2848	0.0918
12378-PeCDD	NotFnd		1.0006	-		-	-	-	1.07	-	3050	0.121
123478-HxCDD	38.43		1.0004	1.0006	+0.5	2.60E+04	1.10	Y	1.19	0.113	2631	0.104
123678-HxCDD	38.56		1.0039	1.0039	0	8.24E+04	1.57	N	1.19	0.374	2631	0.115
123789-HxCDD	38.89		1.0127	1.0127	0	6.38E+04	0.96	N	1.12	0.27	2631	0.112
1234678-HpCDD	42.59		1.0003	1.0003	0	1.91E+06	1.03	Y	1.08	7.96	4708	0.157
OCDD	46.33		1.0004	1.0003	-0.3	8.01E+06	0.90	Y	1.14	55.6	2394	0.18
2378-TCDF	26.50		1.0010	1.0012	+0.3	2.05E+05	0.85	Y	1.10	0.411	3177	0.0743
12378-PeCDF	NotFnd		1.0006	-		-	-	-	1.17	-	3662	0.0834
23478-PeCDF	33.37		1.0006	1.0011	+1.0	1.06E+05	1.36	Y	1.14	0.242	3662	0.0861
123478-HxCDF	37.25		1.0005	1.0006	+0.2	6.97E+04	1.20	Y	1.34	0.177	3068	0.0712
123678-HxCDF	37.41		1.0005	1.0004	-0.2	4.29E+04	1.12	Y	1.23	0.103	3068	0.0661
234678-HxCDF	38.20		1.0005	1.0003	-0.5	5.57E+04	1.55	N	1.26	0.139	3068	0.0726
123789-HxCDF	NotFnd		1.0005	-		-	-	-	1.23	-	3068	0.0859
1234678-HpCDF	41.31		1.0004	1.0003	-0.2	7.89E+05	1.09	Y	1.42	2.35	3771	0.102
1234789-HpCDF	NotFnd		1.0004	-		-	-	-	1.39	-	3771	0.114
OCDF	46.57		1.0004	1.0003	-0.3	7.05E+05	1.02	Y	1.11	3.5	2252	0.123

Name	Act RT		Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Rec. %
ES 2378-TCDD	27.45		1.0280	1.0276	-0.6	5.91E+07	0.82	Y	1.02	91.9
ES 12378-PeCDD	33.74		1.2637	1.2633	-0.6	4.72E+07	1.61	Y	0.92	81.7
ES 123478-HxCDD	38.41		0.9909	0.9909	0	3.84E+07	1.11	Y	1.02	76.5
ES 123678-HxCDD	38.54		0.9944	0.9943	-0.2	3.69E+07	1.12	Y	1.01	74.7
ES 123789-HxCDD	38.88		1.0030	1.0030	0	4.22E+07	1.13	Y	1.14	75.4
ES 1234678-HpCDD	42.58		1.0983	1.0985	+0.5	4.41E+07	1.07	Y	1.02	88
ES OCDD	46.32		1.1946	1.1949	+0.7	5.04E+07	0.90	Y	0.72	71.2
ES 2378-TCDF	26.47		1.0616	1.0621	+0.7	9.07E+07	0.73	Y	1.01	91.3
ES 12378-PeCDF	32.01		1.2841	1.2845	+0.6	7.81E+07	1.49	Y	0.89	89.4
ES 23478-PeCDF	33.33		1.3373	1.3377	+0.6	7.61E+07	1.47	Y	0.91	85.3
ES 123478-HxCDF	37.23		0.9606	0.9606	0	5.87E+07	0.54	Y	1.53	78.3
ES 123678-HxCDF	37.40		0.9649	0.9648	-0.2	6.72E+07	0.54	Y	1.73	79.4
ES 234678-HxCDF	38.19		0.9853	0.9852	-0.2	6.34E+07	0.55	Y	1.61	80.2
ES 123789-HxCDF	39.30		1.0138	1.0138	0	5.45E+07	0.53	Y	1.39	79.8
ES 1234678-HpCDF	41.30		1.0653	1.0654	+0.2	4.72E+07	0.44	Y	1.20	80.1
ES 1234789-HpCDF	43.18		1.1138	1.1140	+0.5	4.22E+07	0.45	Y	1.07	80.4
ES OCDF	46.56		1.2009	1.2012	+0.7	7.27E+07	0.91	Y	1.04	71

Lab ID: A5950_11363_DF_003

Acq'd: 04 Oct 2013 17:02 MDC

Wt/Vol: 10.02 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: JW-EA04-SC13-EF-130423

UTP: 05-Oct-2013 11:00 MDC

J-level: 0.499 pg/g

Split: 1

Checkcode: 067-970-YKJ

Datafile: 131004P1-05

Report: 05 Oct 2013 11:01 MC

StdS (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37CI)

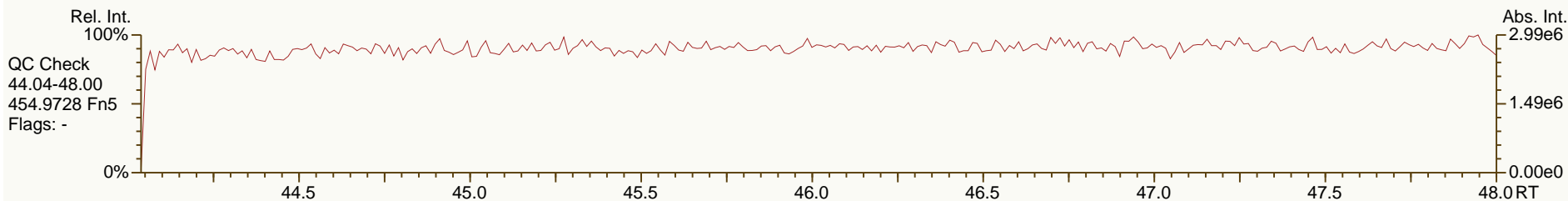
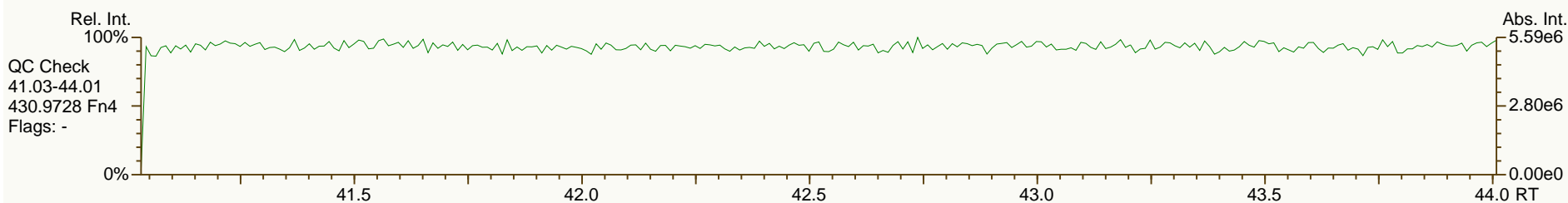
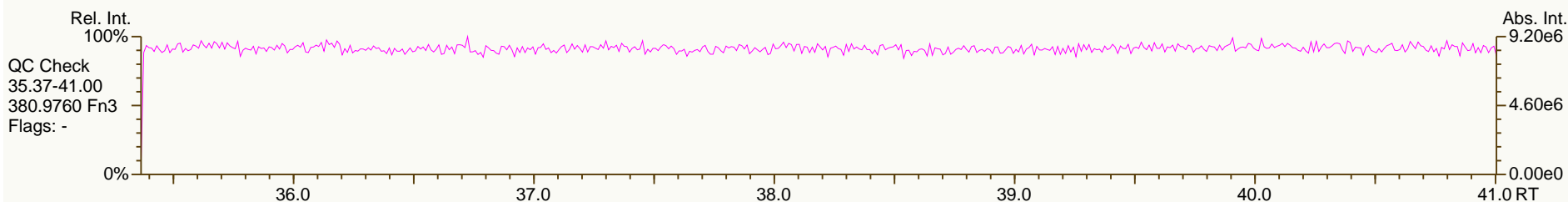
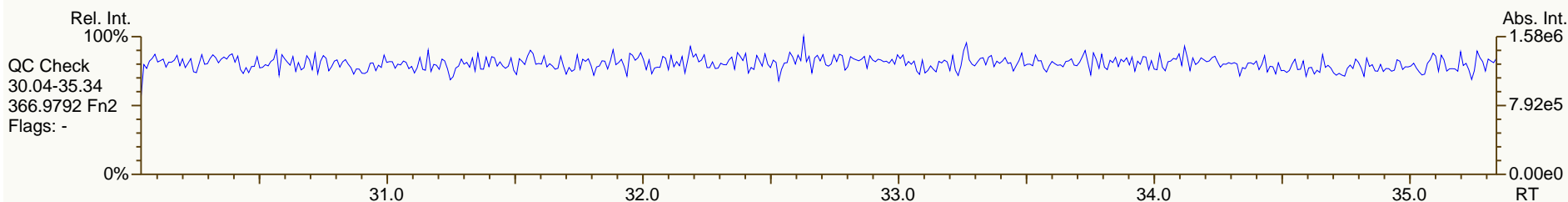
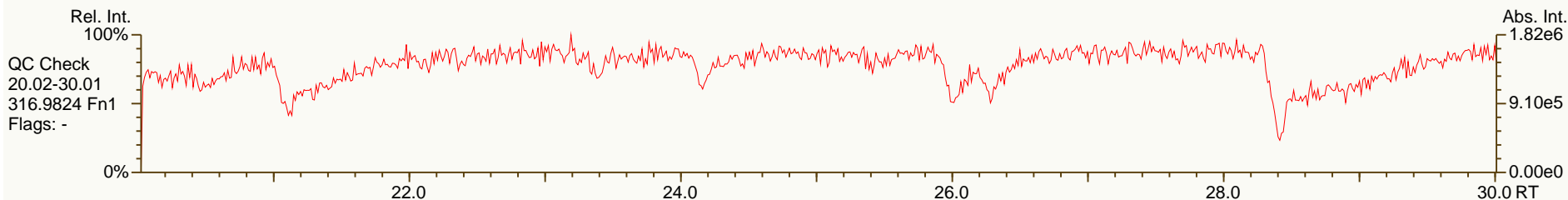
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JS 1234-TCDD	26.71		-	-	-	6.29E+07	0.80	Y	-	-
JS 1234-TCDF	24.92		-	-	-	9.86E+07	0.73	Y	-	-
JS 123467-HxCDD	38.76		-	-	-	2.45E+07	1.14	Y	-	-
CS 37C1-2378-TCDD	27.47		1.0289	1.0286	-0.5	2.85E+07	n/a	-	1.13	100
CS 12347-PeCDD	33.15		1.2414	1.2412	-0.3	4.98E+07	1.57	Y	0.88	90.4
CS 12346-PeCDF	31.39		1.2593	1.2596	+0.4	8.10E+07	1.49	Y	0.90	91.2
CS 123469-HxCDF	37.76		0.9744	0.9743	-0.2	6.18E+07	0.54	Y	1.40	90.1
CS 1234689-HpCDF	41.86		1.0796	1.0798	+0.5	4.87E+07	0.43	Y	1.09	90.9
SS 37C1-2378-TCDD	27.47		1.0289	1.0286	-0.5	2.85E+07	n/a	-	1.11	108
SS 12347-PeCDD	33.15		1.2414	1.2412	-0.3	4.98E+07	1.57	Y	0.96	110
SS 12346-PeCDF	31.39		1.2593	1.2596	+0.4	8.10E+07	1.49	Y	1.02	102
SS 123469-HxCDF	37.76		0.9744	0.9743	-0.2	6.18E+07	0.54	Y	0.81	113
SS 1234689-HpCDF	41.86		1.0796	1.0798	+0.5	4.87E+07	0.43	Y	0.91	113
AS 1368-TCDD	23.33		0.8739	0.8733	-1.0	6.92E+07	0.80	Y	1.01	109
AS 1368-TCDF	21.14		0.8480	0.8483	+0.4	9.44E+07	0.73	Y	1.22	78.5
FS 1278-TCDD	NotFnd		1.0138							
FS 12478-PeCDD	NotFnd		0.9570							
FS 123468-HxCDD	NotFnd		0.9674							
FS 1234679-HpCDD	NotFnd		0.9788							
TS 1378-TCDD	NotFnd		0.9315							

Totals	Conc	EMPC
Total TCDD	1.89	2.67
Total PeCDD	0.951	1.09
Total HxCDD	3.73	4.53
Total HpCDD	18.1	18.1
Total Tetra-Octa Dioxins	80.3	82
Total TCDF	2.58	3.89
Total PeCDF	1.16	1.77
Total HxCDF	2.88	3.25
Total HpCDF	6.89	6.89
Total Tetra-Octa Furans	17	19.3
Total Tetra-Octa Dioxins & Furans	97.3	101

SGS-AP ID: A5950_11363_DF_003
Instr: AutoSpec-Ultima MM1

Sample ID: JW-EA04-SC13-EF-130423
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 3

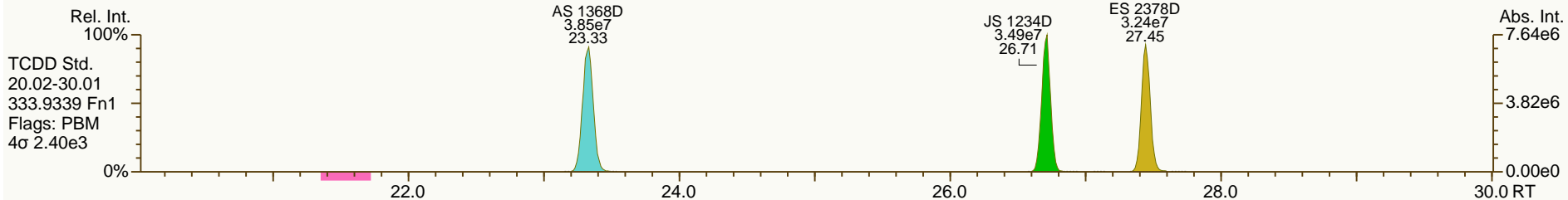
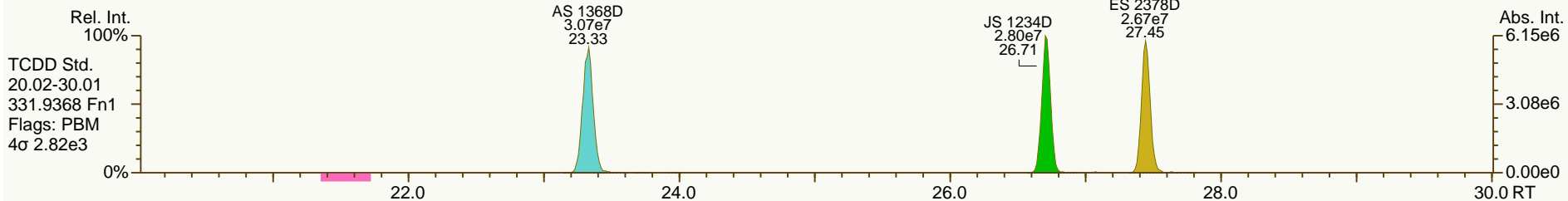
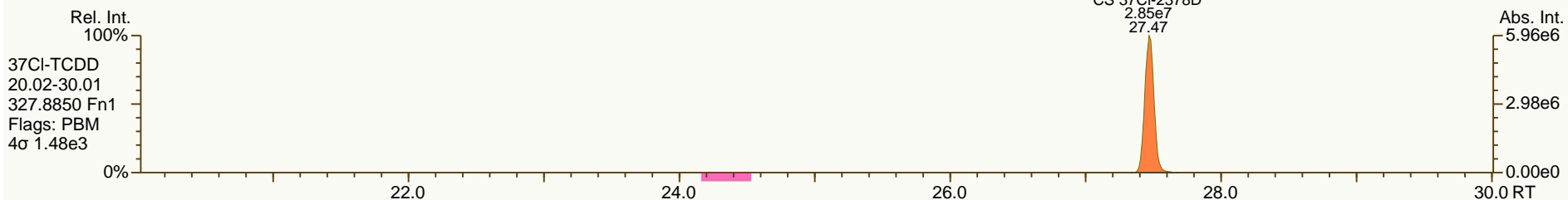
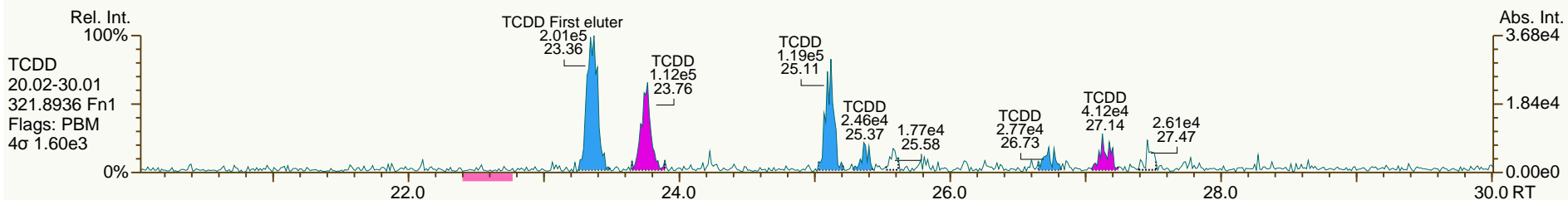
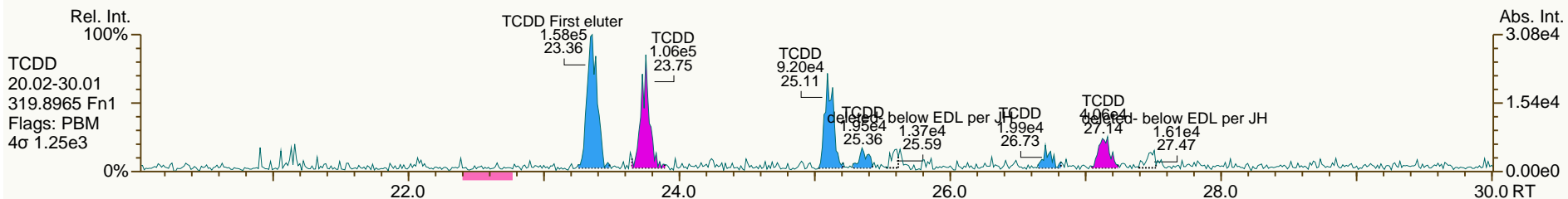
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User: MDC Datafile: 131004P1-05



SGS-AP ID: A5950_11363_DF_003
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-EA04-SC13-EF-130423
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 3

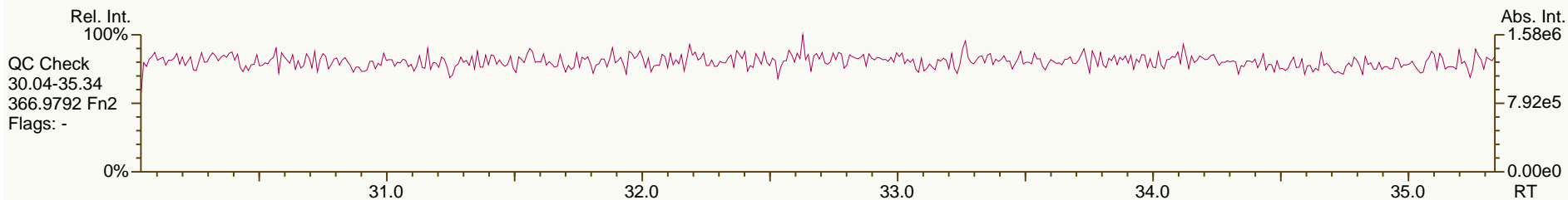
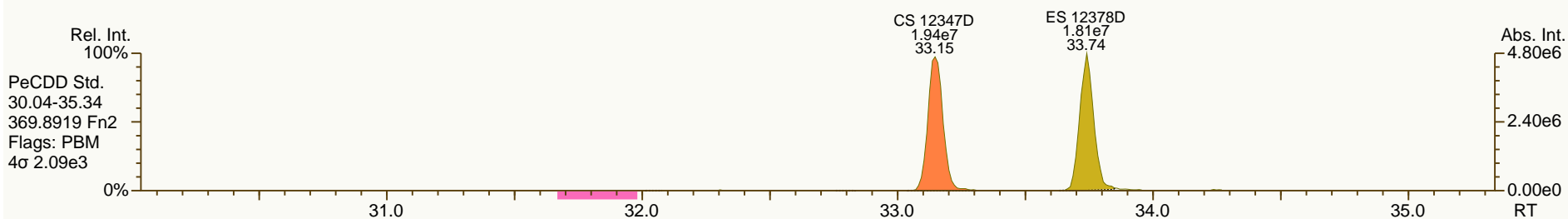
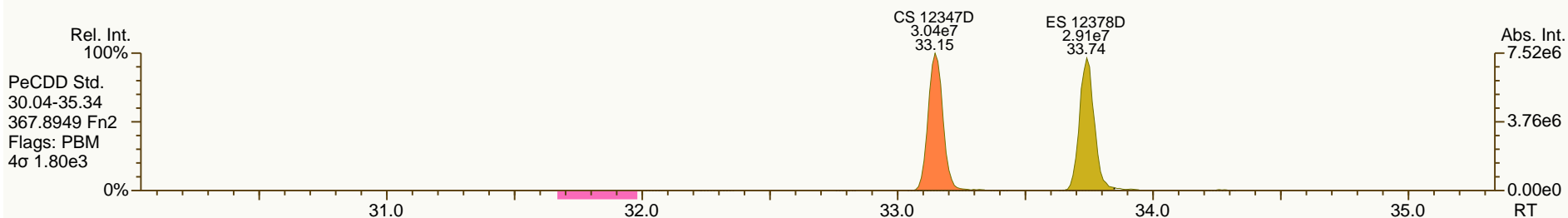
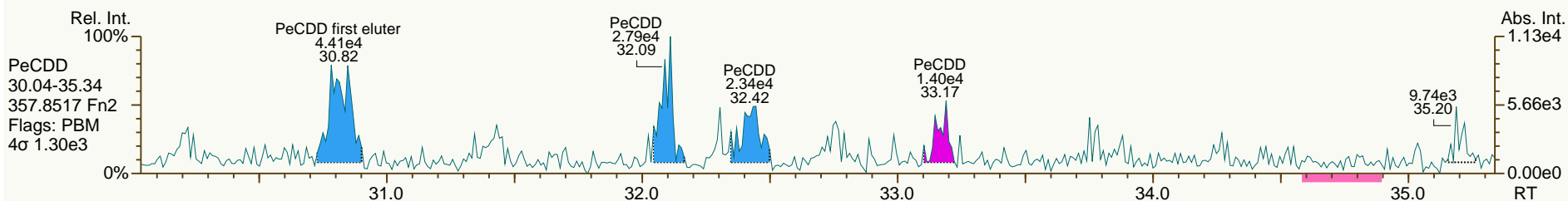
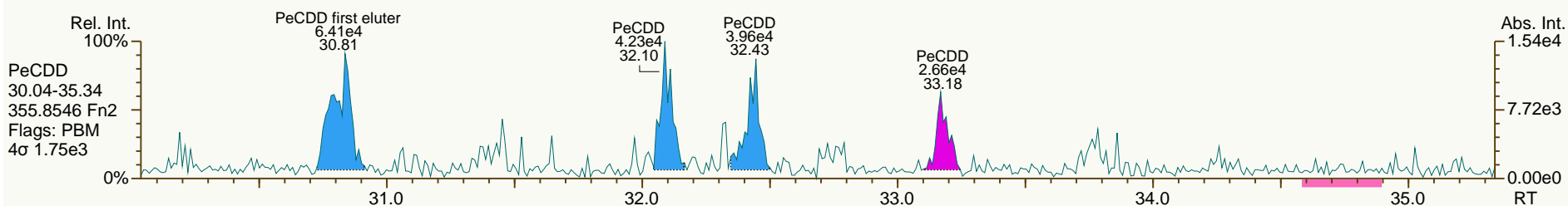
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SGS-AP ID: A5950_11363_DF_003
Instr: AutoSpec-Ultima MM1

Sample ID: JW-EA04-SC13-EF-130423
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 3

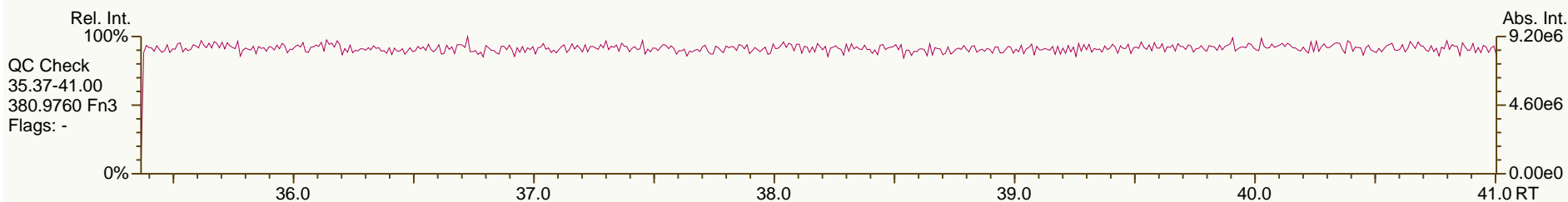
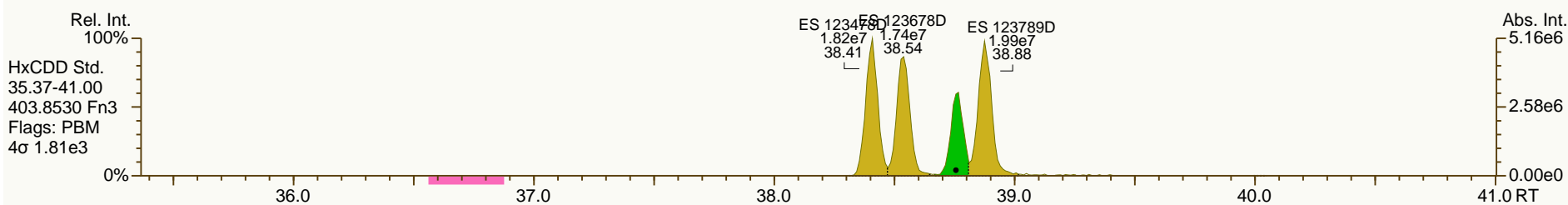
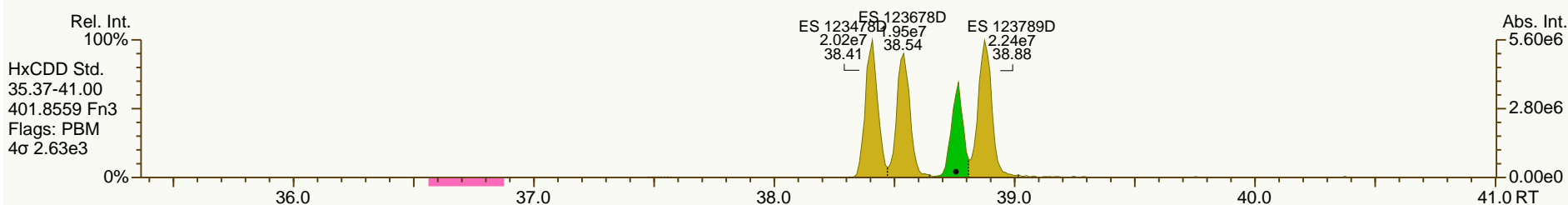
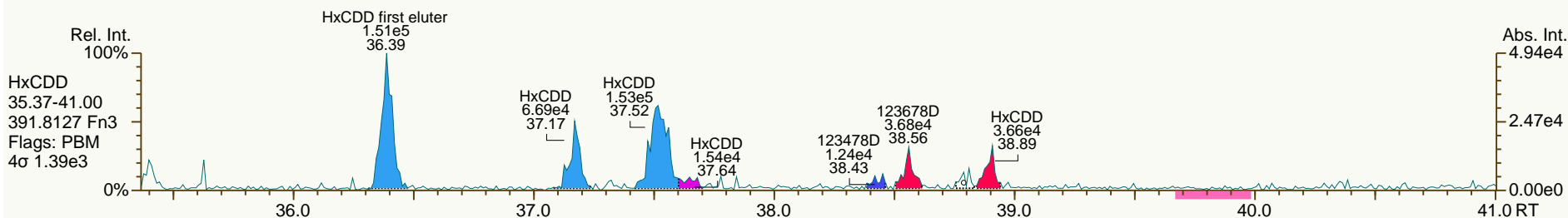
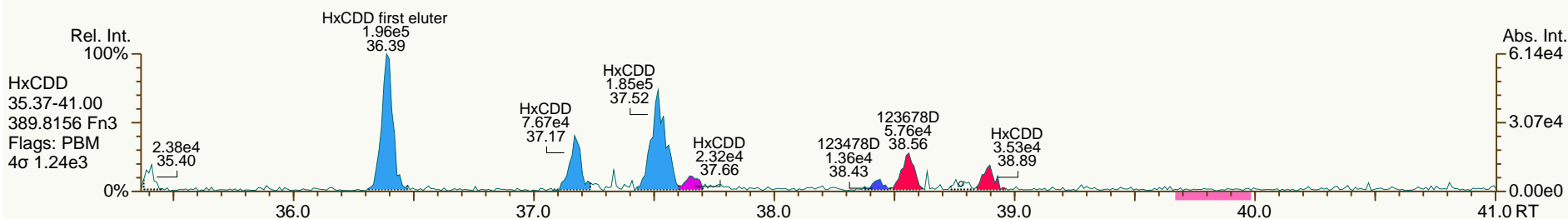
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SGS-AP ID: A5950_11363_DF_003
Instr: AutoSpec-Ultima MM1

Sample ID: JW-EA04-SC13-EF-130423
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 3

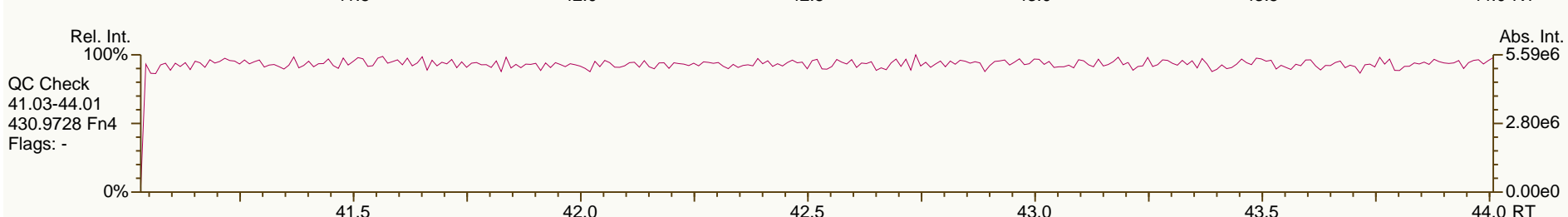
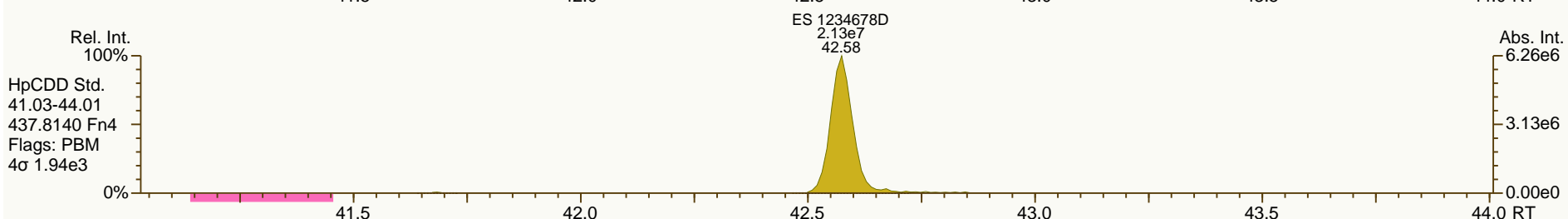
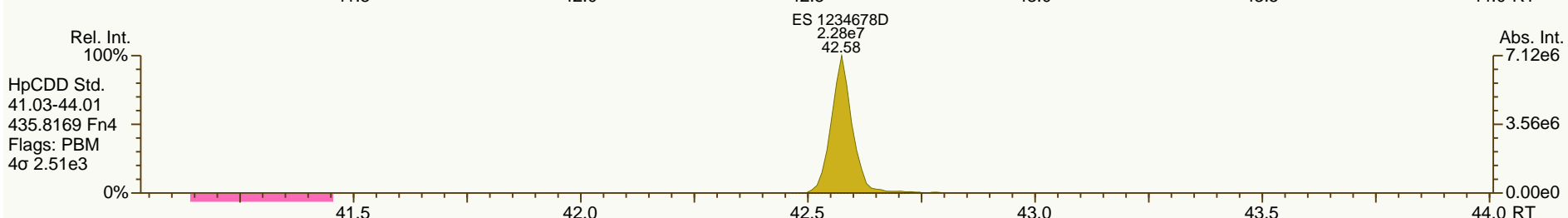
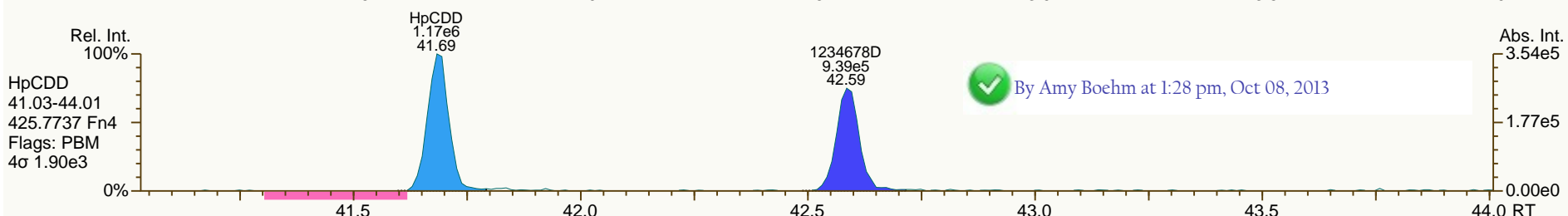
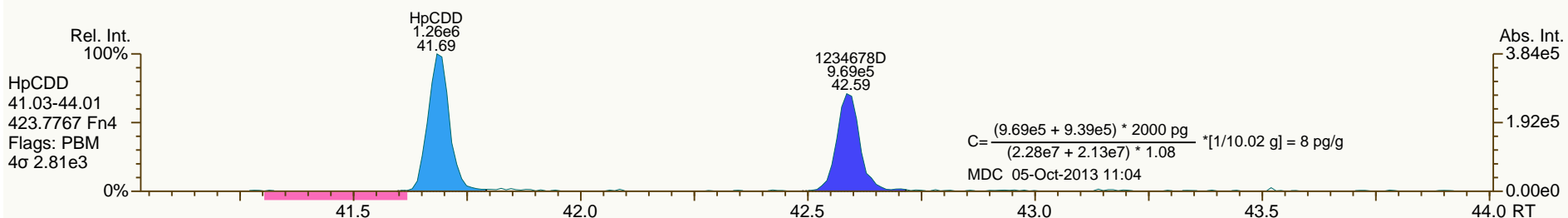
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SGS-AP ID: A5950_11363_DF_003
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-EA04-SC13-EF-130423
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 3

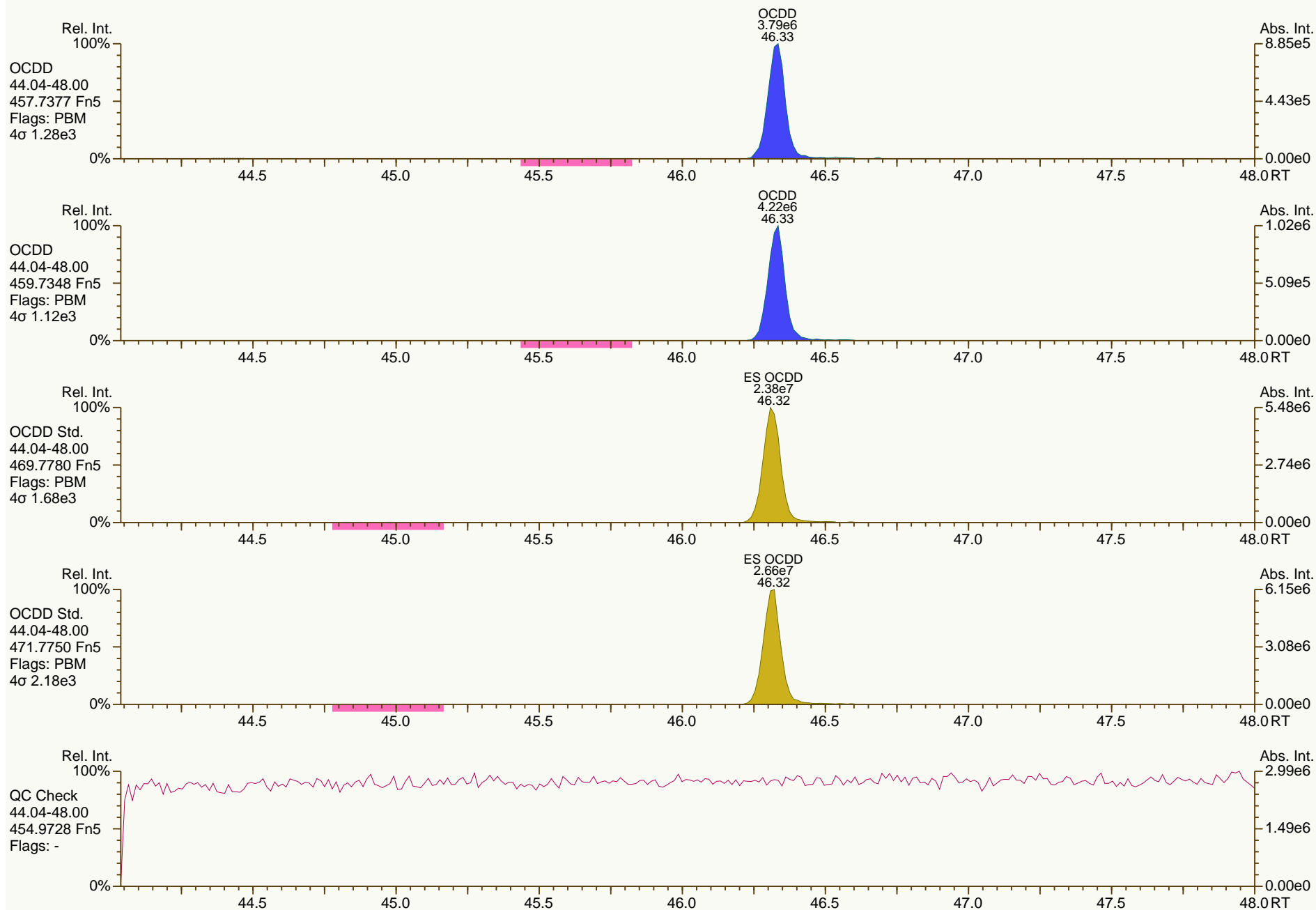
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SGS-AP ID: A5950_11363_DF_003
Instr: AutoSpec-Ultima MM1

Sample ID: JW-EA04-SC13-EF-130423
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 3

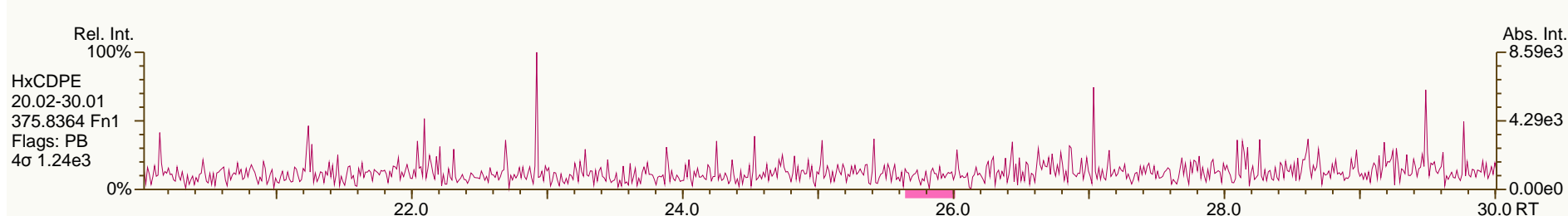
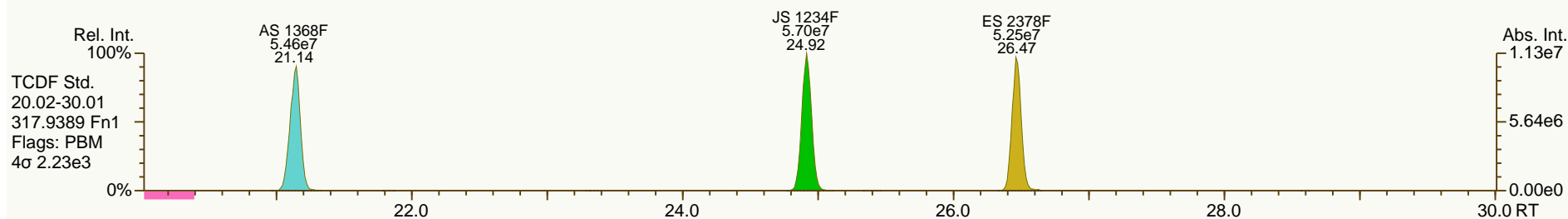
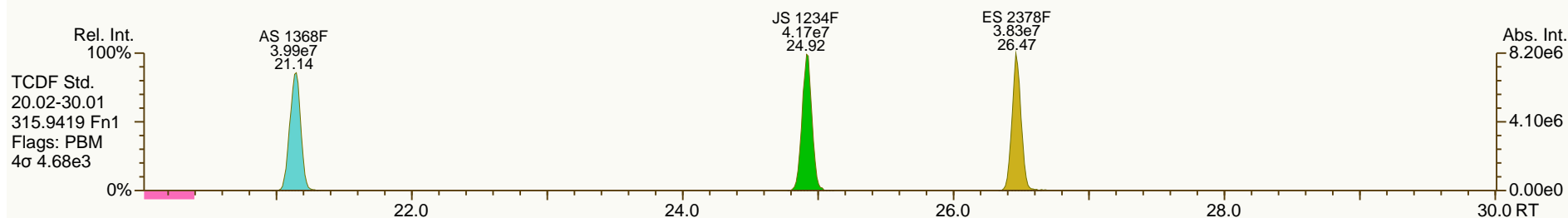
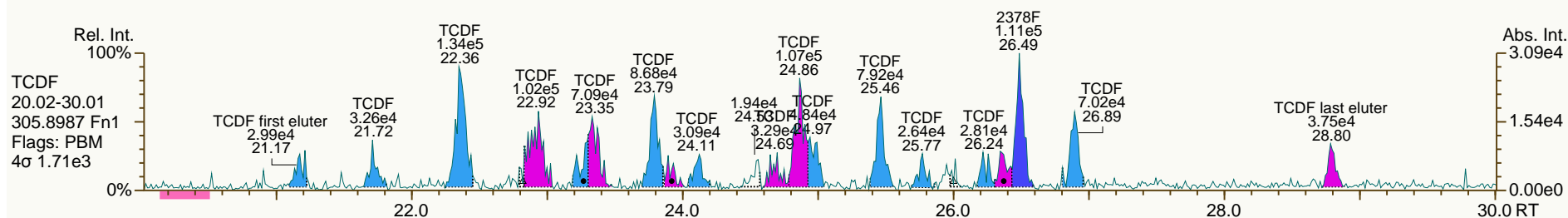
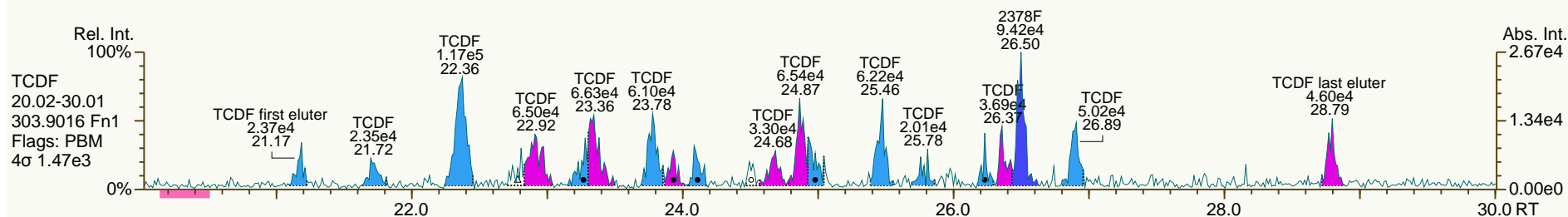
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SGS-AP ID: A5950_11363_DF_003
Instr: AutoSpec-Ultima MM1

Sample ID: JW-EA04-SC13-EF-130423
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 3

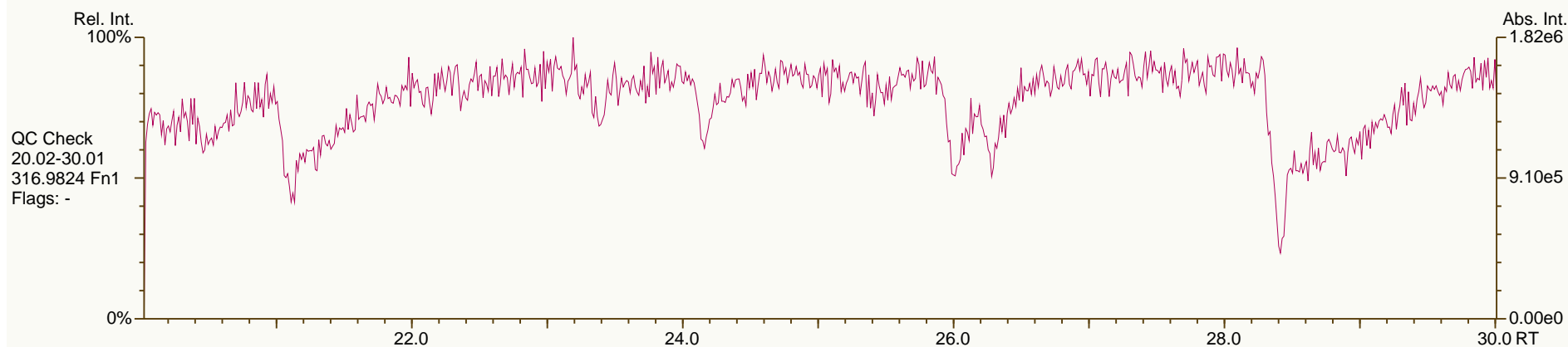
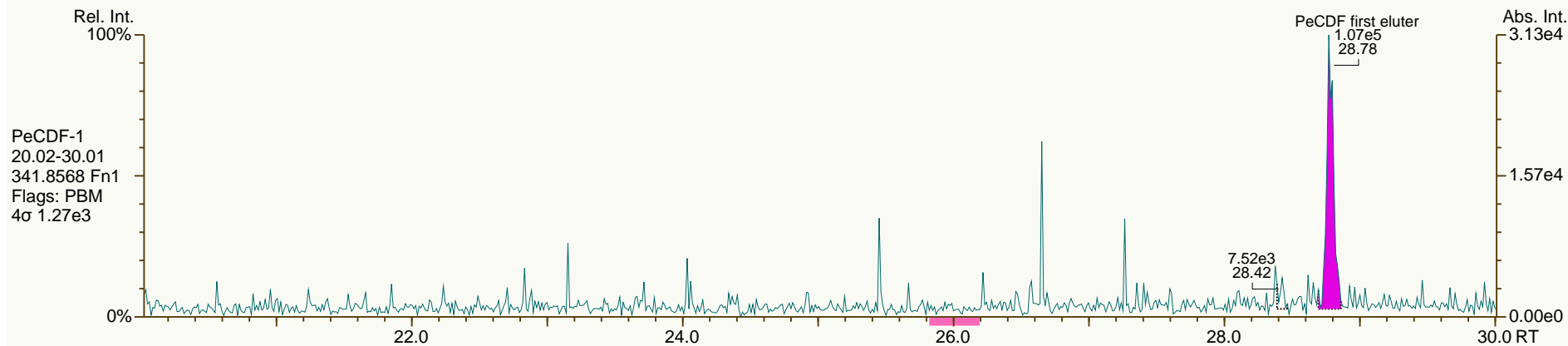
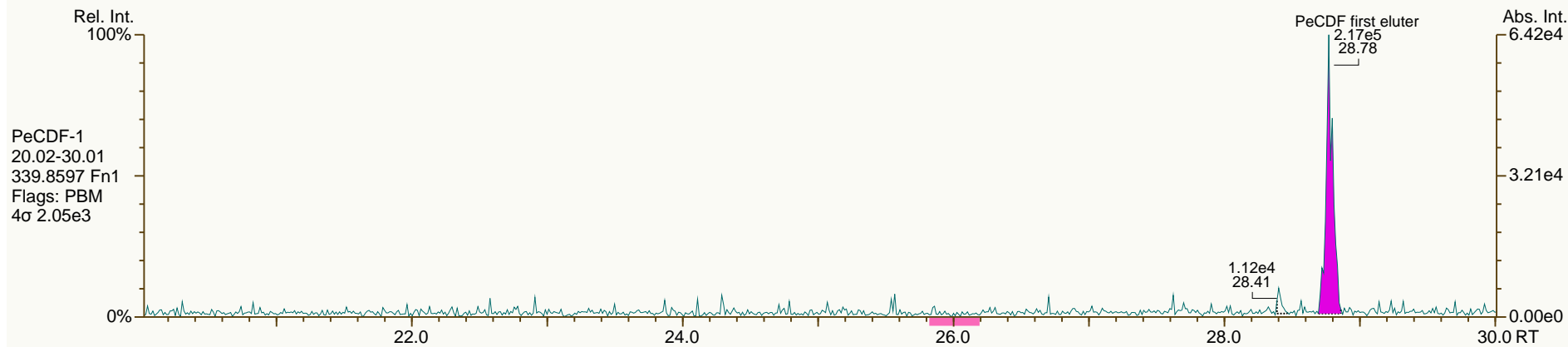
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SGS-AP ID: A5950_11363_DF_003
Instr: AutoSpec-Ultima MM1

Sample ID: JW-EA04-SC13-EF-130423
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 3

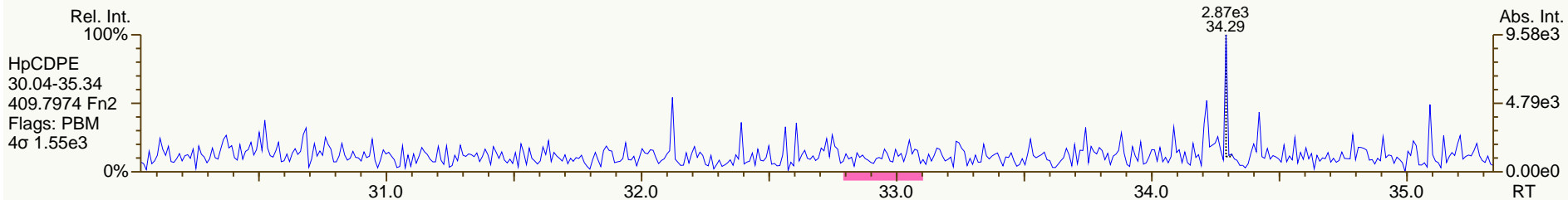
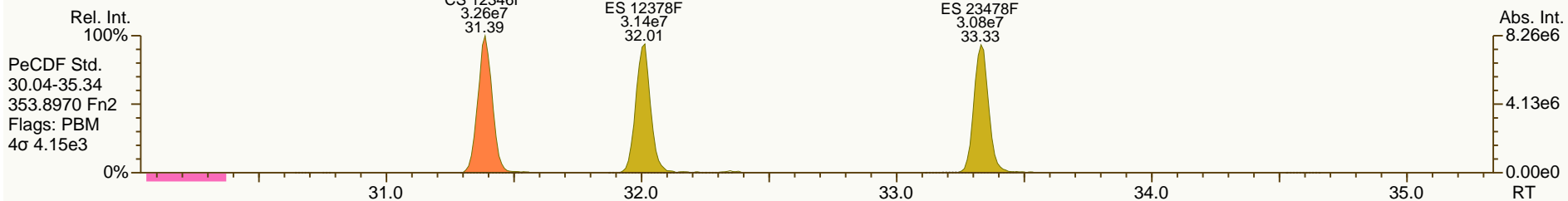
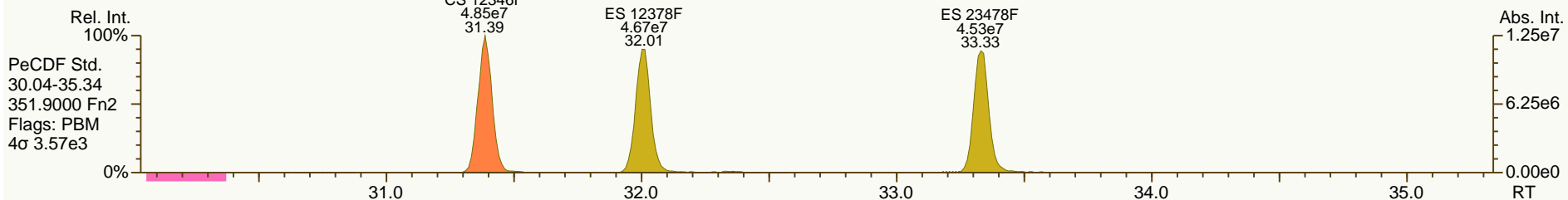
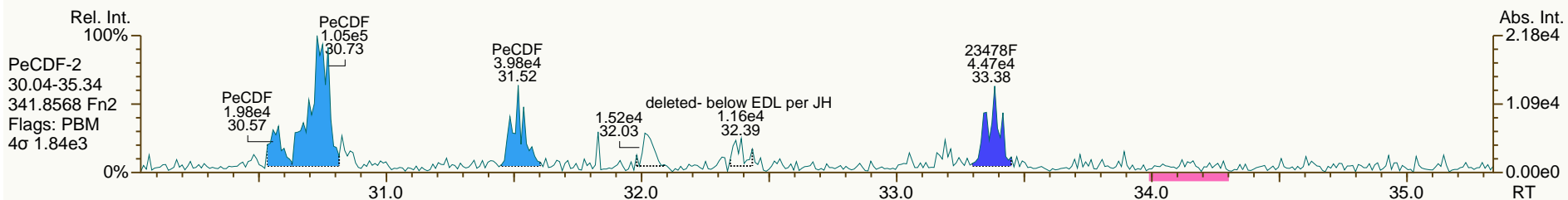
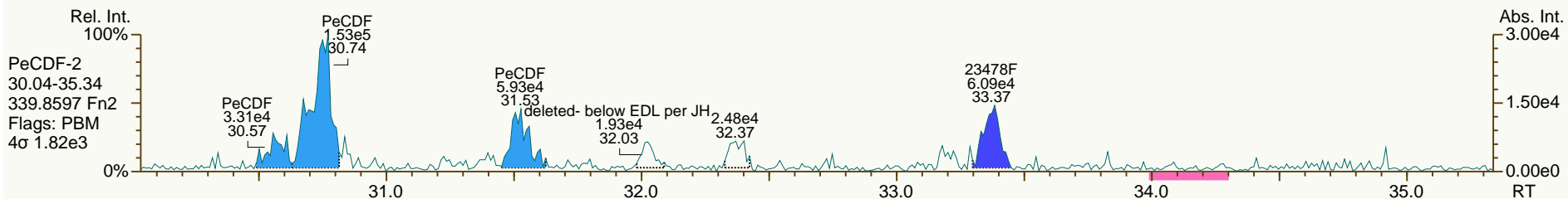
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SGS-AP ID: A5950_11363_DF_003
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-EA04-SC13-EF-130423
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 3

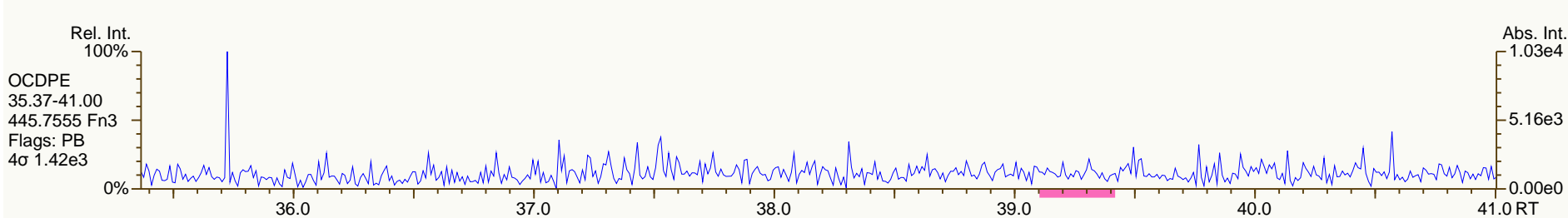
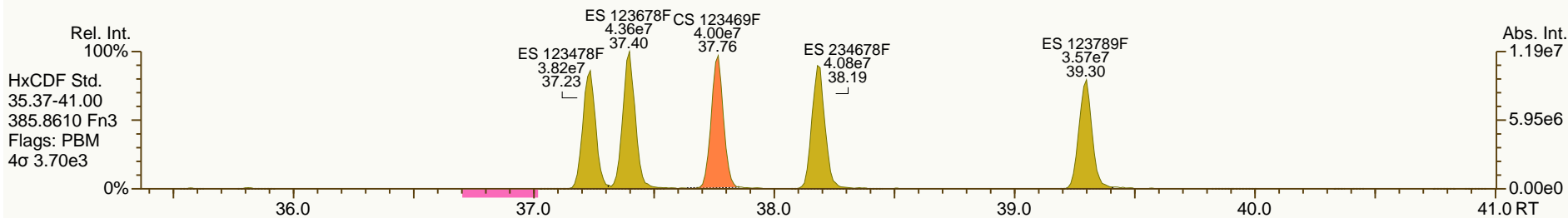
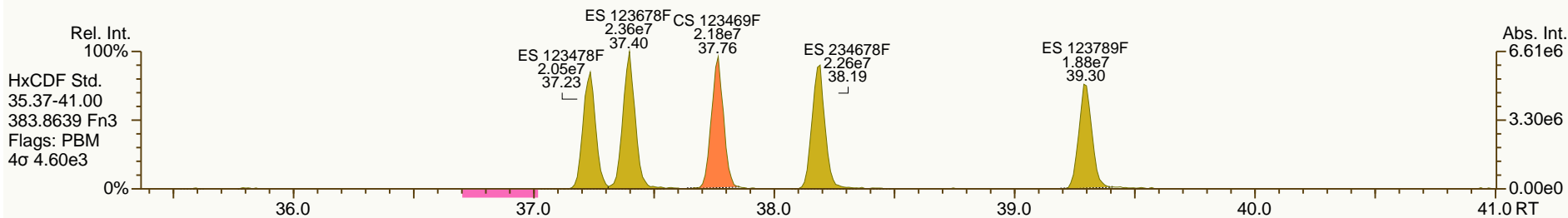
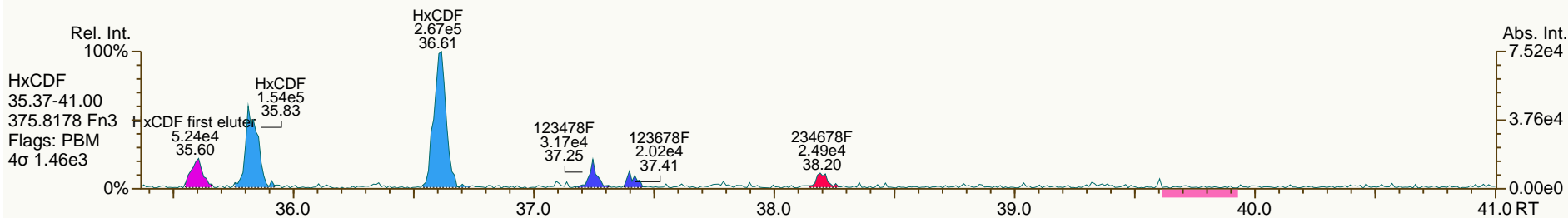
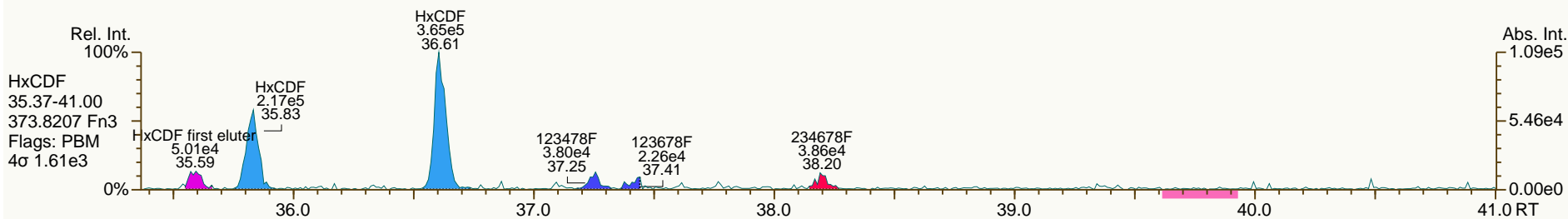
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SGS-AP ID: A5950_11363_DF_003
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-EA04-SC13-EF-130423
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 3

Acq: 04-OCT-2013 17:02:57
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SGS-AP ID: A5950_11363_DF_003
Instr: AutoSpec-Ultima MM1

Sample ID: JW-EA04-SC13-EF-130423
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 3

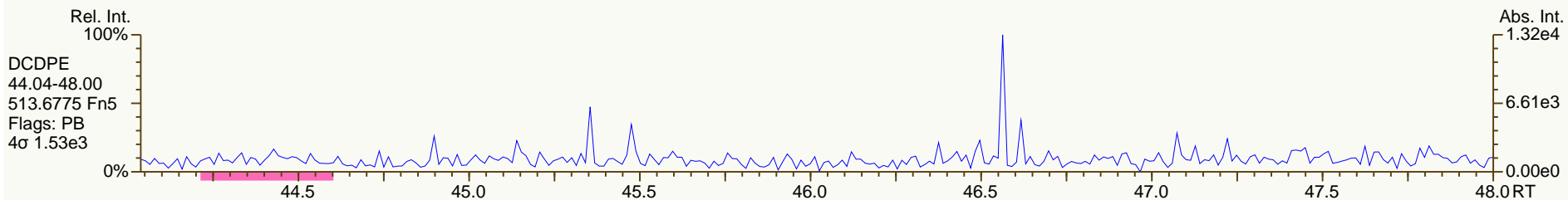
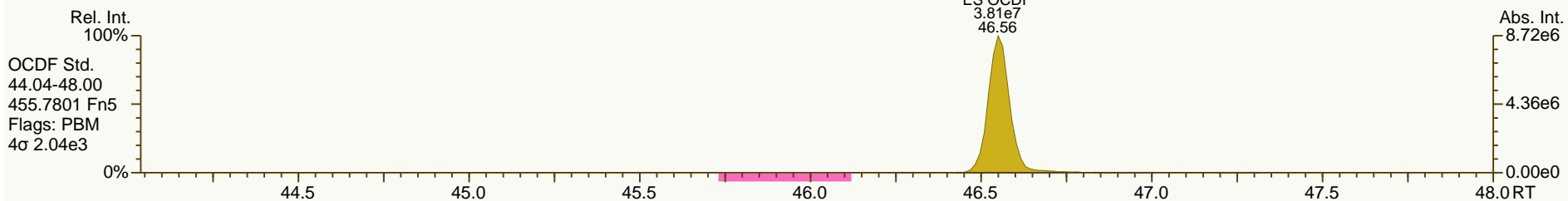
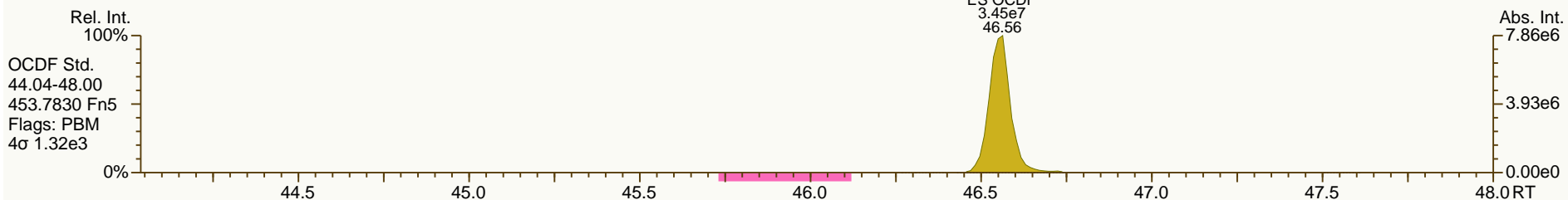
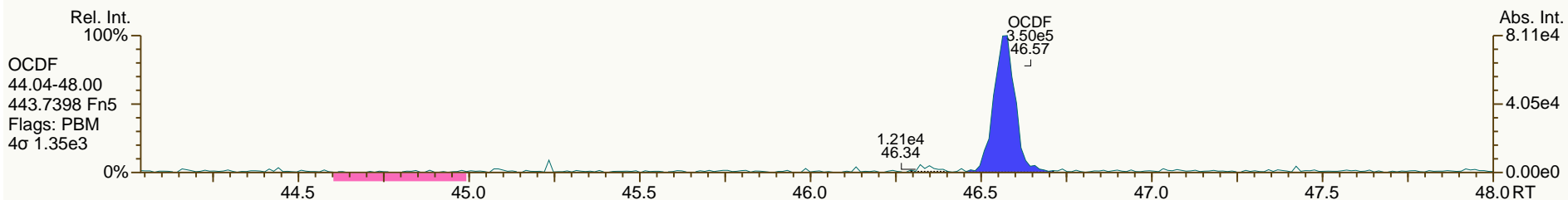
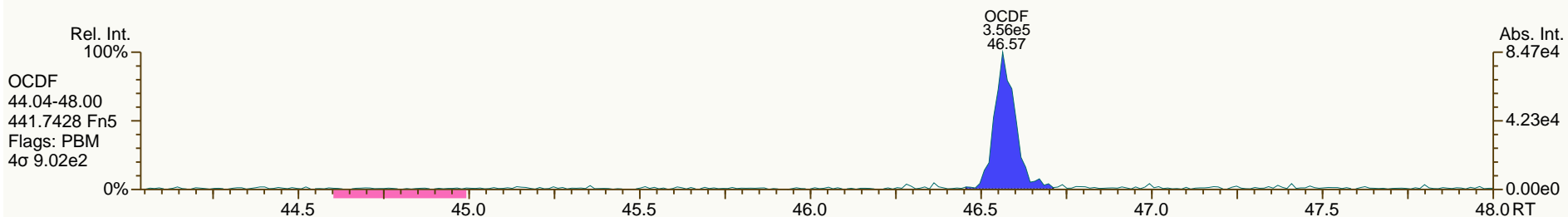
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SGS-AP ID: A5950_11363_DF_003
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-EA04-SC13-EF-130423
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 3

Acq: 04-OCT-2013 17:02:57
 User: MDC Datafile: 131004P1-05



SGS Analytical Perspectives — Run Log

Project: A5950_11363_DF

Instrument: MM1 (AutoSpec-Ultima)

MS Experiment: DF_CL4-8B

GC Program: DB5MS_60M

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
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2	131004P1-02	2	OPR1_11363_DF	1.00	0_11363_OPR001	MDC	535-838	04-OCT-2013	14:25:13
3	131004P1-03	15	SBS_131004_DF_PA	1.00	solvent blank	MDC	055-746	04-OCT-2013	15:17:50
4	131004P1-04	1	MB1_11363_DF_SDS	10.00	Method Blank	MDC	004-836	04-OCT-2013	16:10:23
5	131004P1-05	3	A5950_11363_DF_003	10.02	JW-EA04-SC13-EF-130423	MDC	067-970	04-OCT-2013	17:02:57
6	131004P1-06	7	CS3_131004_DF_PB	1.00	11012012A	MDC	011-956	04-OCT-2013	17:55:25

REVIEWED*By Michael D H Chu at 11:12 am, Oct 05, 2013***APPROVED***By Amy Boehm at 1:20 pm, Oct 08, 2013*

Dioxin/Furan QC Summary		Acq'd: 04 Oct 2013 13:32 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
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Sample ID: 11012012A		Report: 05 Oct 2013 10:56 MC			Datafile: 131004P1-01		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.46	5.72E+06	0.81	Y	1.18	1.31	11%
12378-PeCDD	33.76	2.19E+07	1.59	Y	1.07	1.06	-1%
123478-HxCDD	38.42	2.19E+07	1.28	Y	1.19	1.32	11%
123678-HxCDD	38.56	2.21E+07	1.27	Y	1.19	1.31	10%
123789-HxCDD	38.90	2.32E+07	1.28	Y	1.12	1.29	15%
1234678-HpCDD	42.59	2.13E+07	1.04	Y	1.08	1.12	3%
OCDD	46.33	2.96E+07	0.90	Y	1.14	1.12	-2%
2378-TCDF	26.47	8.91E+06	0.80	Y	1.10	1.22	11%
12378-PeCDF	32.02	3.84E+07	1.56	Y	1.17	1.21	4%
23478-PeCDF	33.35	3.81E+07	1.57	Y	1.14	1.16	2%
123478-HxCDF	37.25	3.69E+07	1.27	Y	1.34	1.39	4%
123678-HxCDF	37.41	3.82E+07	1.27	Y	1.23	1.25	2%
234678-HxCDF	38.21	3.61E+07	1.27	Y	1.26	1.27	1%
123789-HxCDF	39.32	3.21E+07	1.29	Y	1.23	1.27	3%
1234678-HpCDF	41.31	3.18E+07	1.04	Y	1.42	1.45	2%
1234789-HpCDF	43.20	2.82E+07	1.05	Y	1.39	1.42	2%
OCDF	46.57	3.88E+07	0.90	Y	1.11	1.06	-4%
ES 2378-TCDD	27.44	4.37E+07	0.78	Y	1.02	1.02	-1%
ES 12378-PeCDD	33.74	4.14E+07	1.59	Y	0.92	0.96	5%
ES 123478-HxCDD	38.41	3.31E+07	1.10	Y	1.02	0.99	-3%
ES 123678-HxCDD	38.54	3.37E+07	1.12	Y	1.01	1.01	0%
ES 123789-HxCDD	38.88	3.60E+07	1.08	Y	1.14	1.08	-5%
ES 1234678-HpCDD	42.58	3.81E+07	1.07	Y	1.02	1.14	12%
ES OCDD	46.31	5.27E+07	0.90	Y	0.72	0.79	10%
ES 2378-TCDF	26.45	7.31E+07	0.66	Y	1.01	1.02	1%
ES 12378-PeCDF	32.00	6.34E+07	1.46	Y	0.89	0.88	0%
ES 23478-PeCDF	33.33	6.55E+07	1.47	Y	0.91	0.91	1%
ES 123478-HxCDF	37.23	5.31E+07	0.54	Y	1.53	1.59	4%
ES 123678-HxCDF	37.40	6.09E+07	0.55	Y	1.73	1.83	6%
ES 234678-HxCDF	38.19	5.67E+07	0.55	Y	1.61	1.70	6%
ES 123789-HxCDF	39.30	5.06E+07	0.55	Y	1.39	1.52	9%
ES 1234678-HpCDF	41.29	4.40E+07	0.45	Y	1.20	1.32	10%
ES 1234789-HpCDF	43.18	3.98E+07	0.44	Y	1.07	1.19	11%
ES OCDF	46.56	7.30E+07	0.93	Y	1.04	1.09	5%

Dioxin/Furan QC Summary		Acq'd: 04 Oct 2013 13:32 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS3_131004_DF_PA		UTP: 05-Oct-2013 10:55 MDC			Checkcode: 361-120		
Sample ID: 11012012A		Report: 05 Oct 2013 10:56 MC			Datafile: 131004P1-01		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
JS 1234-TCDD	26.69	4.31E+07	0.80	Y	-	-	-
JS 1234-TCDF	24.91	7.18E+07	0.66	Y	-	-	-
JS 123467-HxCDD	38.76	1.67E+07	1.07	Y	-	-	-
CS 37C1-2378-TCDD	27.46	5.05E+06	n/a	-	1.13	1.17	4%
CS 12347-PeCDD	33.15	4.09E+07	1.64	Y	0.88	0.95	8%
CS 12346-PeCDF	31.38	6.49E+07	1.43	Y	0.90	0.90	0%
CS 123469-HxCDF	37.76	5.09E+07	0.54	Y	1.40	1.53	9%
CS 1234689-HpCDF	41.85	4.29E+07	0.44	Y	1.09	1.29	18%
SS 37C1-2378-TCDD	27.46	5.05E+06	n/a	-	1.11	1.15	4%
SS 12347-PeCDD	33.15	4.09E+07	1.64	Y	0.96	0.99	3%
SS 12346-PeCDF	31.38	6.49E+07	1.43	Y	1.02	1.02	0%
SS 123469-HxCDF	37.76	5.09E+07	0.54	Y	0.81	0.84	3%
SS 1234689-HpCDF	41.85	4.29E+07	0.44	Y	0.91	0.98	7%
AS 1368-TCDD	23.31	4.28E+07	0.80	Y	1.01	1.00	-1%
AS 1368-TCDF	21.11	8.72E+07	0.73	Y	1.22	1.21	0%
FS 1278-TCDD	27.82	5.16E+07	0.76	Y	1.18	1.18	0%
FS 12478-PeCDD	32.29	4.51E+07	1.60	Y	1.06	1.09	3%
FS 123468-HxCDD	37.15	4.35E+07	1.11	Y	1.26	1.32	4%
FS 1234679-HpCDD	41.67	4.54E+07	1.04	Y	1.12	1.19	6%
TS 1378-TCDD	25.55	5.08E+07	0.79	Y	1.11	1.16	5%
OCDD-a	46.32	1.87E+06	2.55	Y	0.07	0.07	4%
OCDF-a	46.57	2.27E+06	2.73	Y	0.06	0.06	-2%

METHOD 1613B**PCDD/F CALIBRATION VERIFICATION****FORM 4A**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
 Instrument ID: MM1 GC Column ID: ZB-5ms
 VER Data Filename: 131004P1-01 Analysis Date: 04-OCT-2013 13:32:45

NATIVE ANALYTES	M/Z's FORMING RATIO	ION ABUND. RATIO	QC LIMITS	OK	CONC. FOUND	RANGE (ng/mL)	OK
2,3,7,8-TCDD	M/M+2	0.81	0.65 - 0.89	Y	11.1	7.8 - 12.9	Y
1,2,3,7,8-PeCDD	M+2/M+4	1.59	1.32 - 1.78	Y	49.3	39 - 65	Y
1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05 - 1.43	Y	55.6	39 - 64	Y
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05 - 1.43	Y	54.9	39 - 64	Y
1,2,3,7,8,9-HxCDD	M+2/M+4	1.28	1.05 - 1.43	Y	57.6	41 - 61	Y
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88 - 1.20	Y	51.5	43 - 58	Y
OCDD	M+2/M+4	0.90	0.76 - 1.02	Y	98.1	79 - 126	Y
2,3,7,8-TCDF	M/M+2	0.80	0.65 - 0.89	Y	11.1	8.4 - 12	Y
1,2,3,7,8-PeCDF	M+2/M+4	1.56	1.32 - 1.78	Y	51.9	41 - 60	Y
2,3,4,7,8-PeCDF	M+2/M+4	1.57	1.32 - 1.78	Y	50.8	41 - 61	Y
1,2,3,4,7,8-HxCDF	M+2/M+4	1.27	1.05 - 1.43	Y	51.8	45 - 56	Y
1,2,3,6,7,8-HxCDF	M+2/M+4	1.27	1.05 - 1.43	Y	50.9	44 - 57	Y
2,3,4,6,7,8-HxCDF	M+2/M+4	1.27	1.05 - 1.43	Y	50.5	44 - 57	Y
1,2,3,7,8,9-HxCDF	M+2/M+4	1.29	1.05 - 1.43	Y	51.5	45 - 56	Y
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	0.88 - 1.20	Y	51	45 - 55	Y
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88 - 1.20	Y	51.1	43 - 58	Y
OCDF	M+2/M+4	0.90	0.76 - 1.02	Y	95.9	63 - 159	Y

See Table 9, Method 1613, for m/z specifications.

Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

Contract-required concentration range as specified in Table 6, Method 1613.

Processed: 05 Oct 2013 10:56 Analyst: MC

METHOD 1613B

PCDD/F CALIBRATION VERIFICATION

FORM 4B

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
 Instrument ID: MM1 GC Column ID: ZB-5ms
 VER Data Filename: 131004P1-01 Analysis Date: 04-OCT-2013 13:32:45

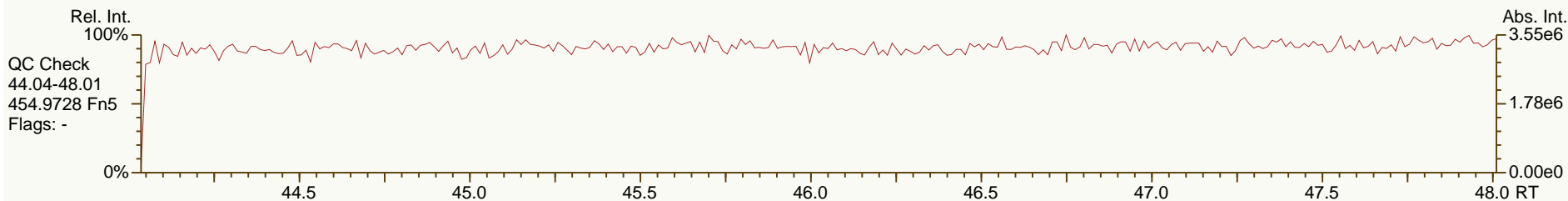
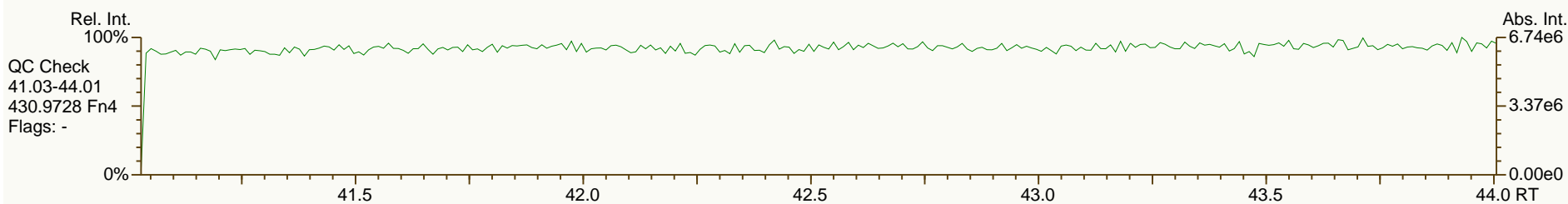
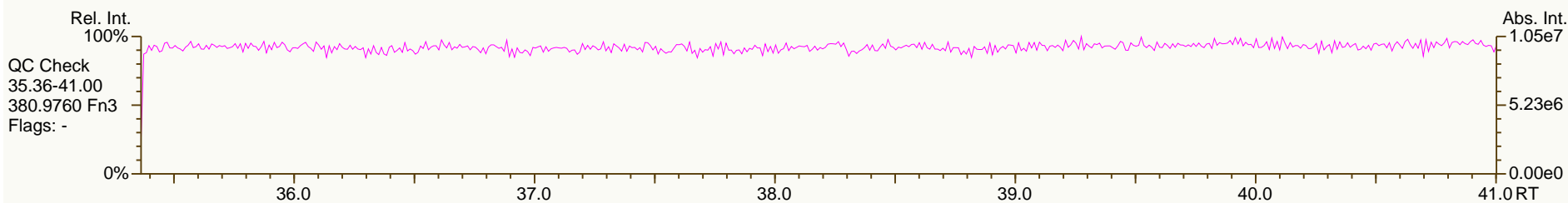
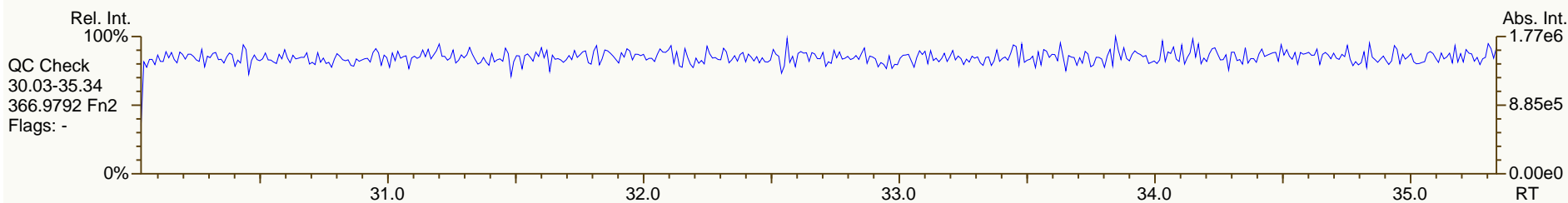
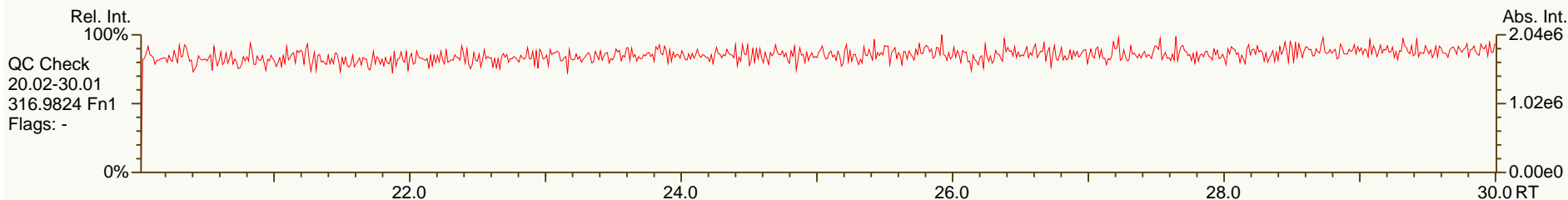
LABELED ANALYTES	M/Z's FORMING RATIO	ION ABUND. RATIO	QC LIMITS	OK	CONC. FOUND	RANGE (ng/mL)	OK
13C-2,3,7,8-TCDD	M/M+2	0.78	0.65 - 0.89	Y	99.3	82 - 121	Y
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.59	1.32 - 1.78	Y	105	62 - 160	Y
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.10	1.05 - 1.43	Y	97	85 - 117	Y
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.12	1.05 - 1.43	Y	100	85 - 118	Y
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.08	1.05 - 1.43	Y	94.7	85 - 118	Y
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88 - 1.20	Y	112	72 - 138	Y
13C-OCDD	M+2/M+4	0.90	0.76 - 1.02	Y	219	96 - 415	Y
13C-2,3,7,8-TCDF	M/M+2	0.66	0.65 - 0.89	Y	101	71 - 140	Y
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.46	1.32 - 1.78	Y	99.7	76 - 130	Y
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.47	1.32 - 1.78	Y	101	77 - 130	Y
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.54	0.43 - 0.59	Y	104	76 - 131	Y
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.55	0.43 - 0.59	Y	106	70 - 143	Y
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.55	0.43 - 0.59	Y	106	73 - 137	Y
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.55	0.43 - 0.59	Y	109	74 - 135	Y
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.45	0.37 - 0.51	Y	110	78 - 129	Y
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37 - 0.51	Y	111	77 - 129	Y
13C-OCDF	M+2/M+4	0.93	0.76 - 1.02	Y	210	96 - 415	Y
CLEANUP STANDARDS							
37Cl-2,3,7,8-TCDD	n/a				10.4	7.9 - 12.7	Y
13C-1,2,3,4,7-PeCDD	M+2/M+4	1.64	1.32 - 1.78	Y	108	70 - 130	Y
13C-1,2,3,4,6-PeCDF	M+2/M+4	1.43	1.32 - 1.78	Y	100	70 - 130	Y
13C-1,2,3,4,6,9-HxCDF	M/M+2	0.54	0.43 - 0.59	Y	109	70 - 130	Y
13C-1,2,3,4,6,8,9-HpCDF	M/M+2	0.44	0.37 - 0.51	Y	118	70 - 130	Y

Processed: 05 Oct 2013 10:56 Analyst: MC

SGS-AP ID: CS3_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

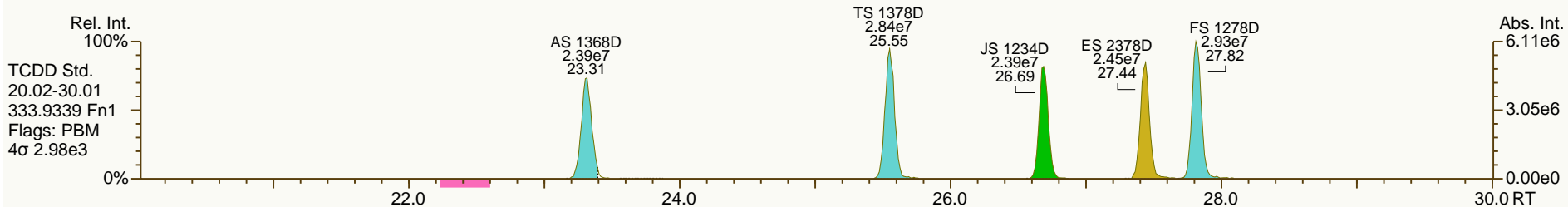
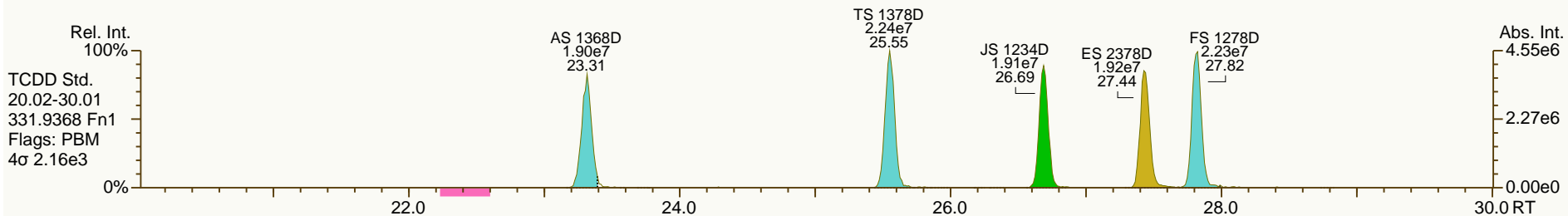
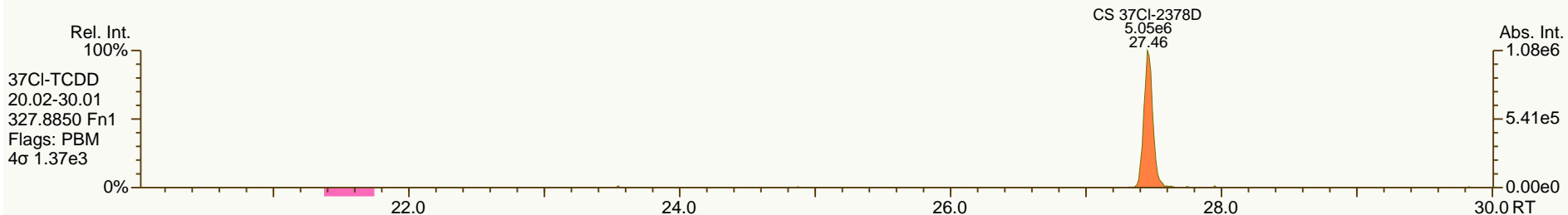
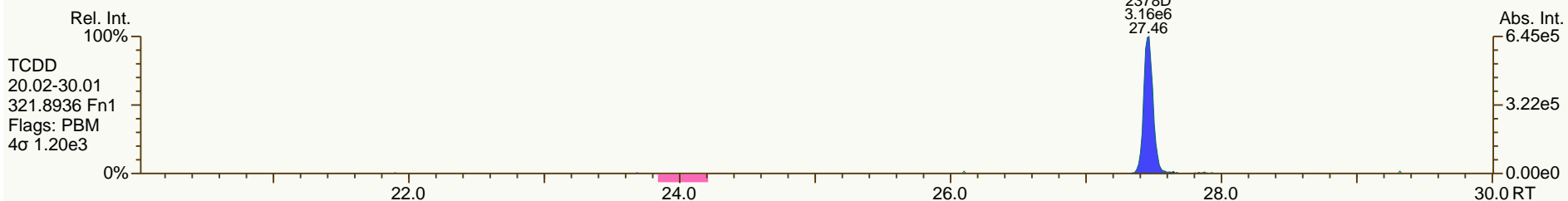
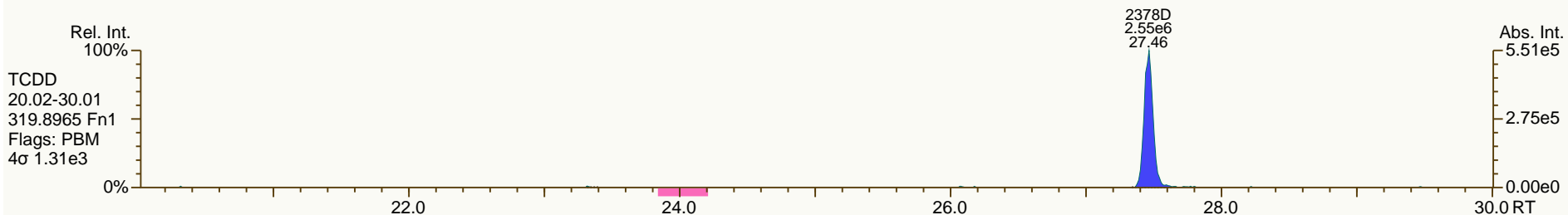
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SGS-AP ID: CS3_131004_DF_PA
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

Acq: 04-OCT-2013 13:32:45
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SGS-AP ID: CS3_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

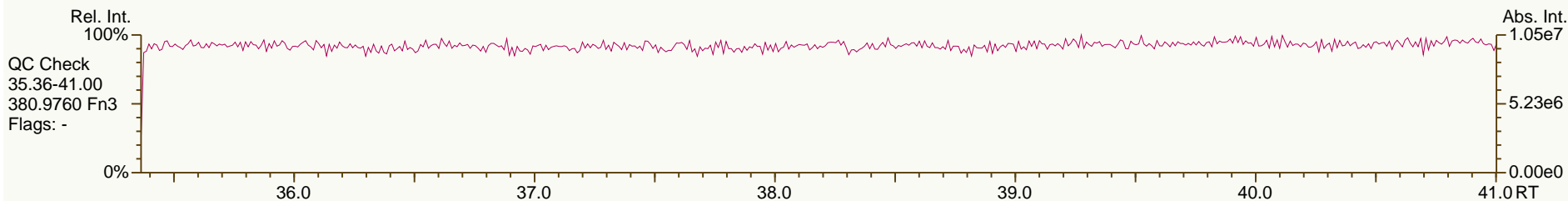
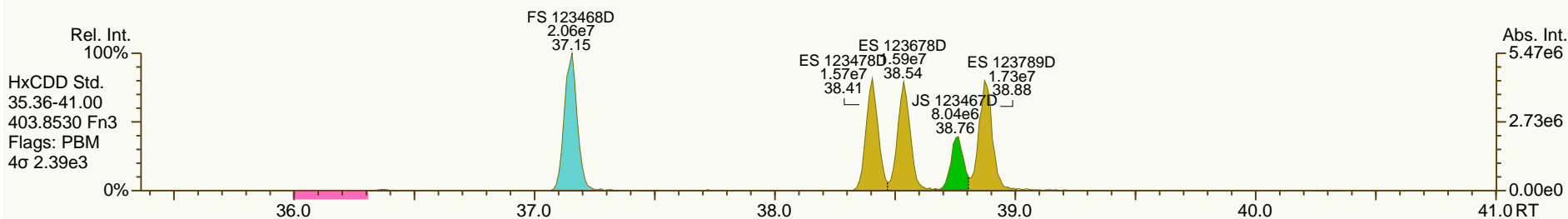
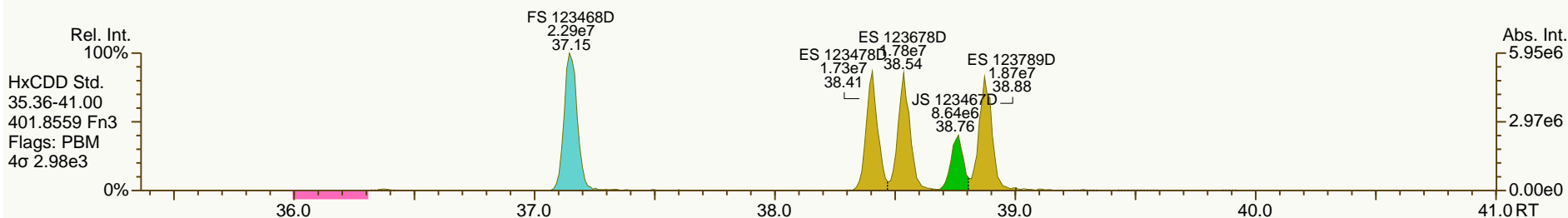
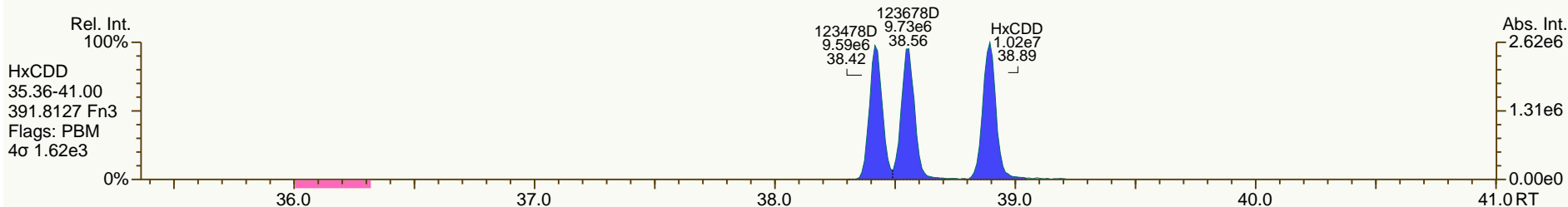
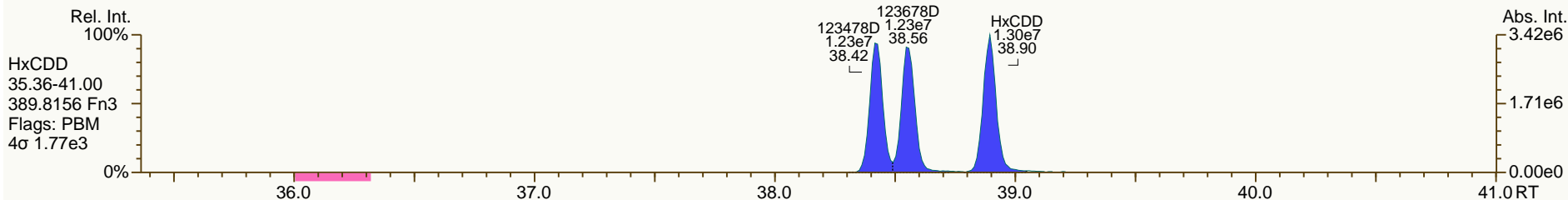
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SGS-AP ID: CS3_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

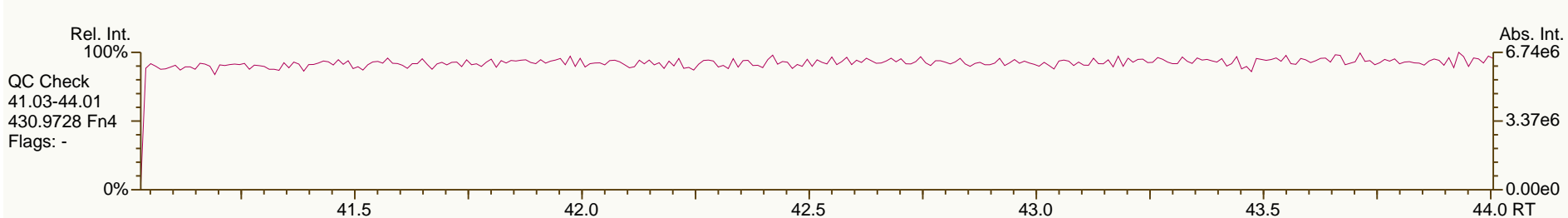
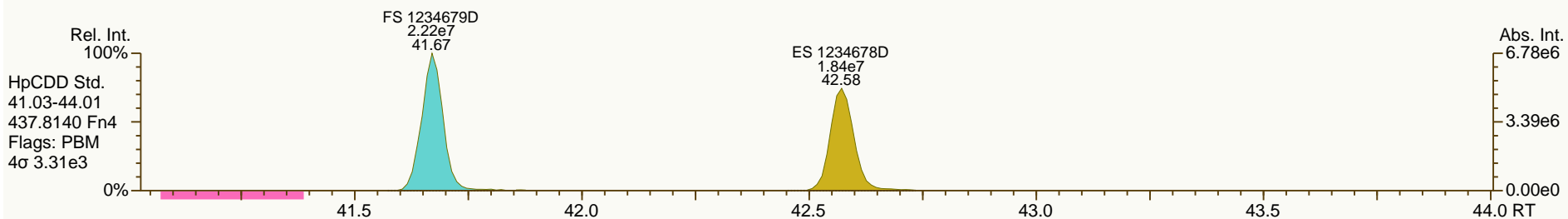
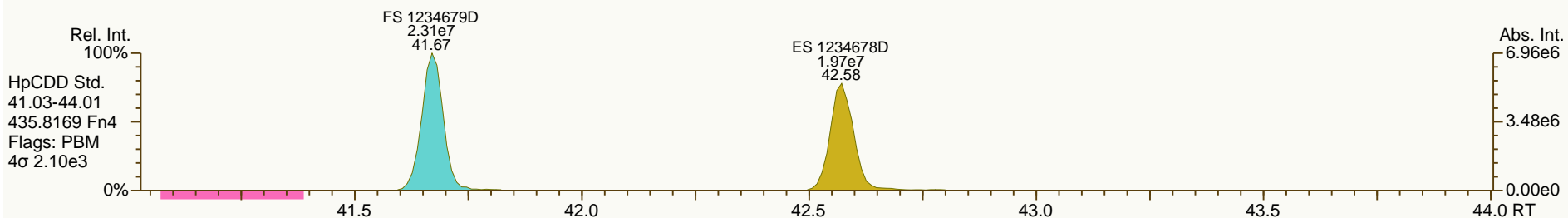
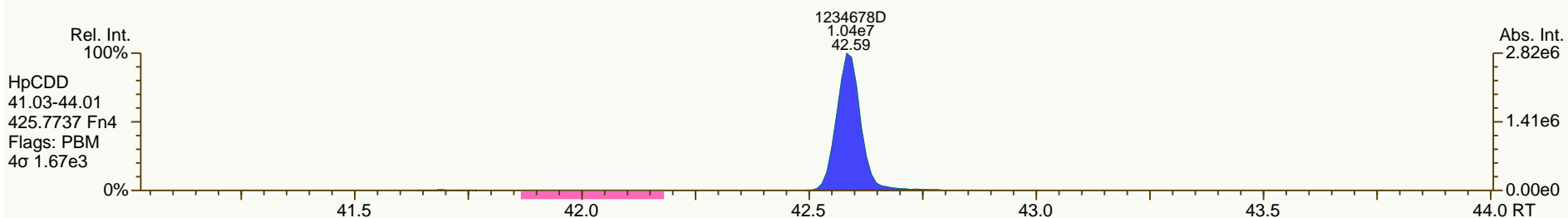
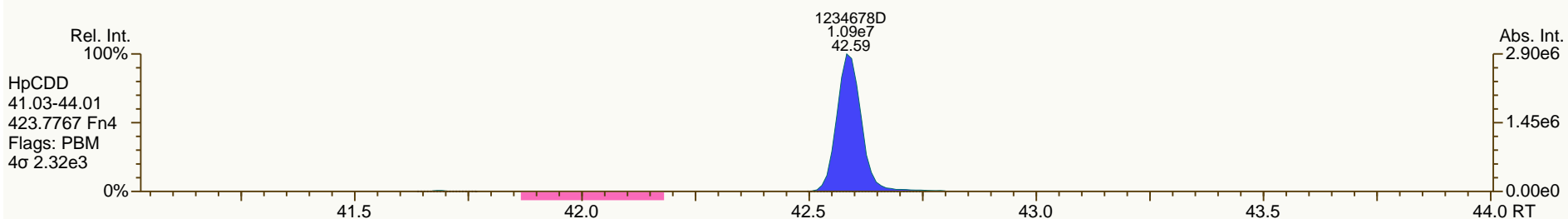
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SGS-AP ID: CS3_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

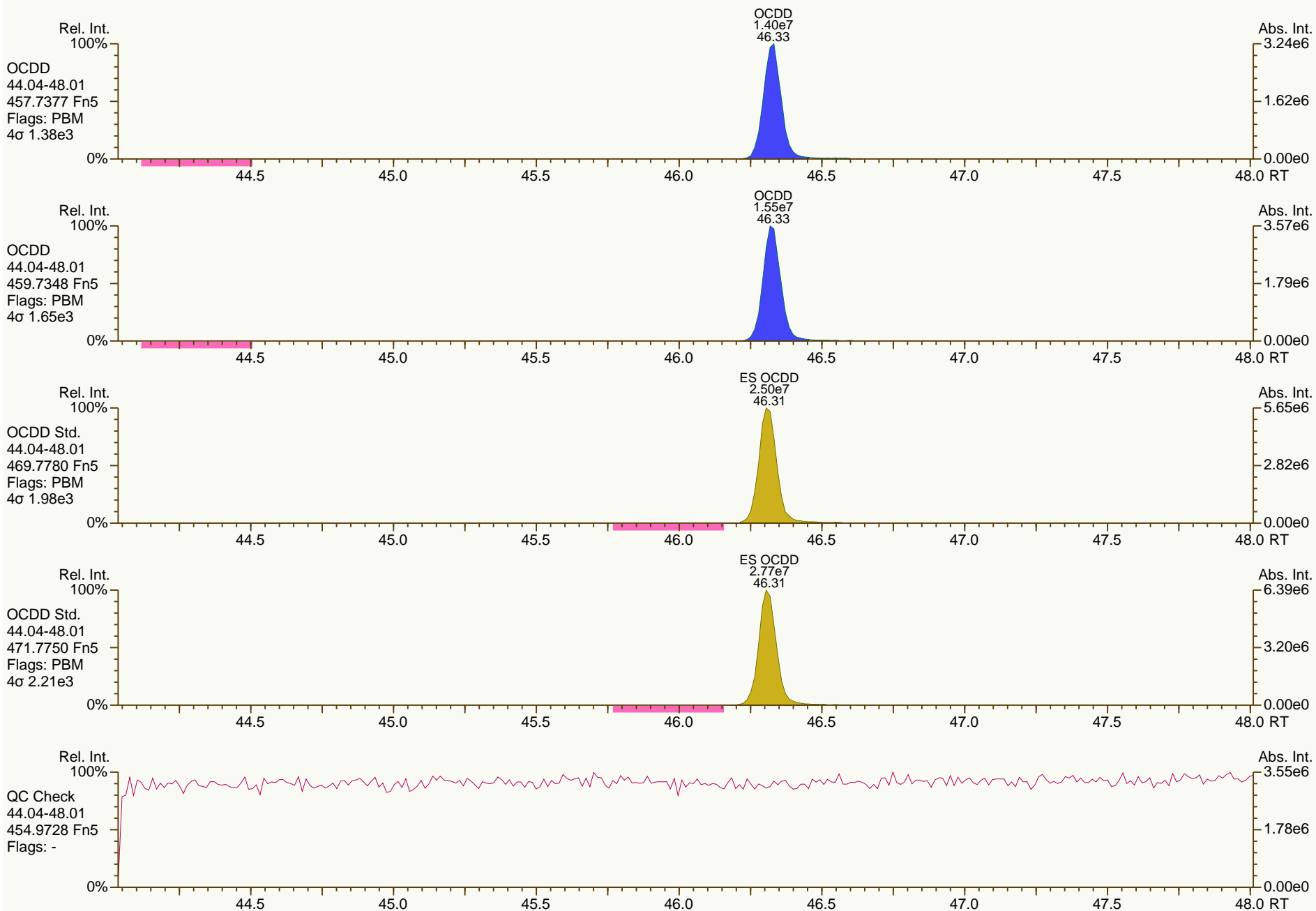
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SGS-AP ID: CS3_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

Acq: 04-OCT-2013 13:32:45
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SGS-AP ID: CS3_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

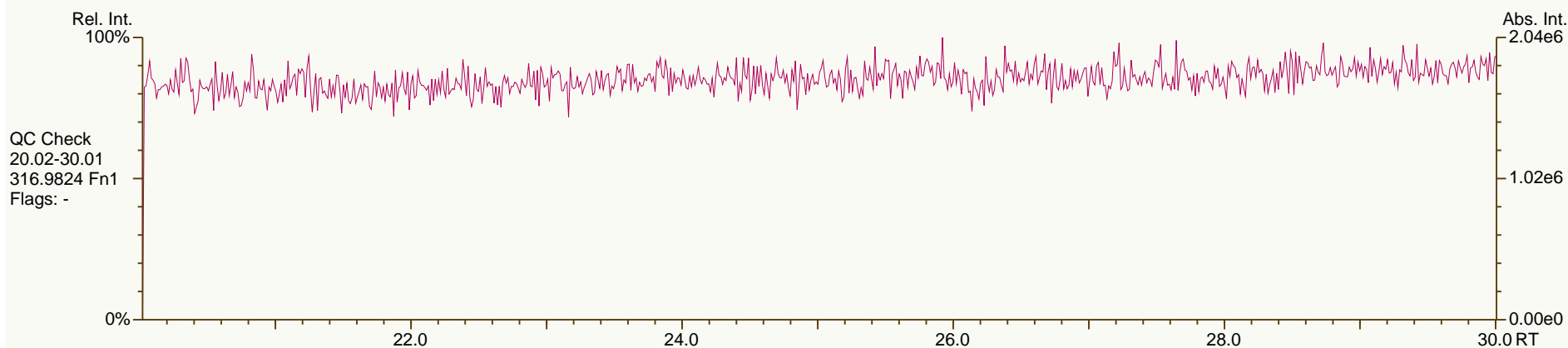
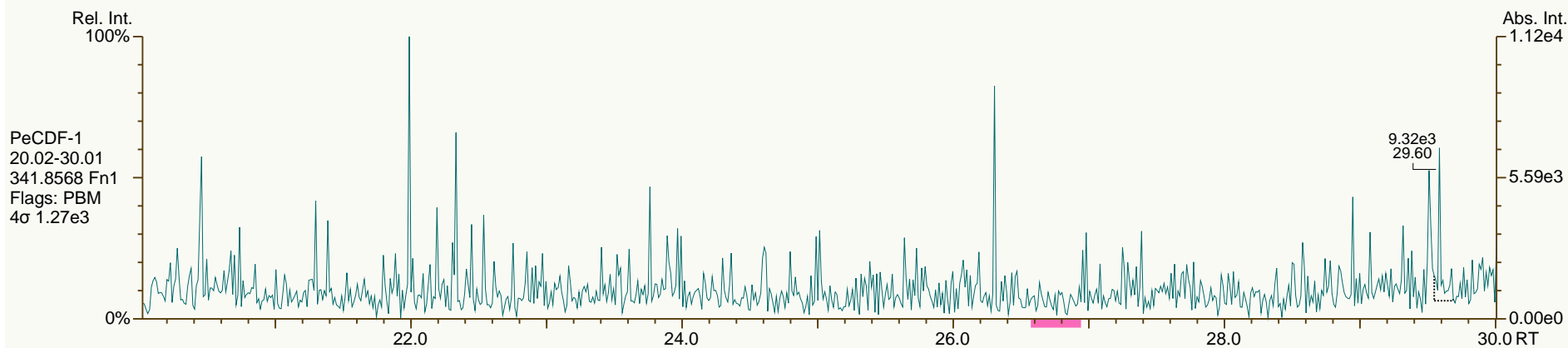
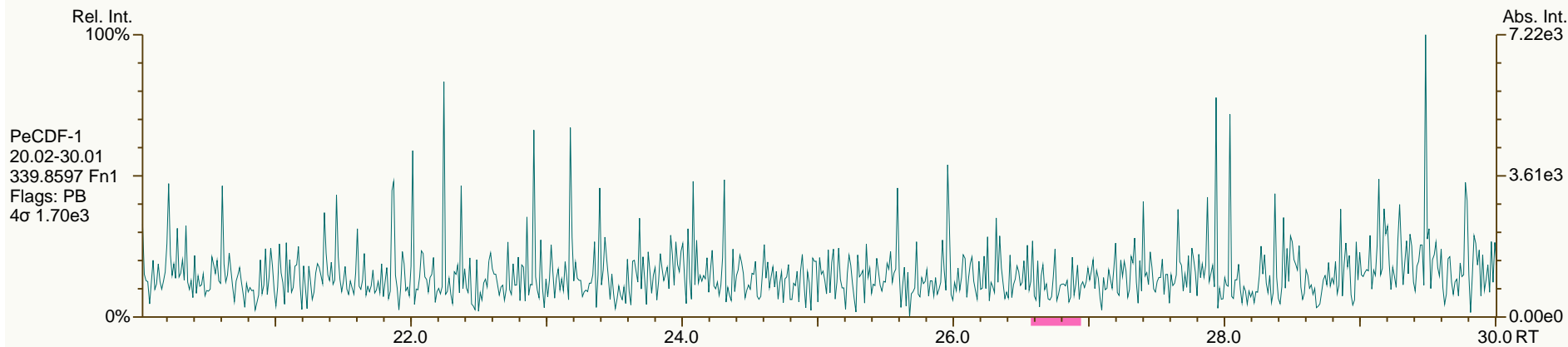
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SGS-AP ID: CS3_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

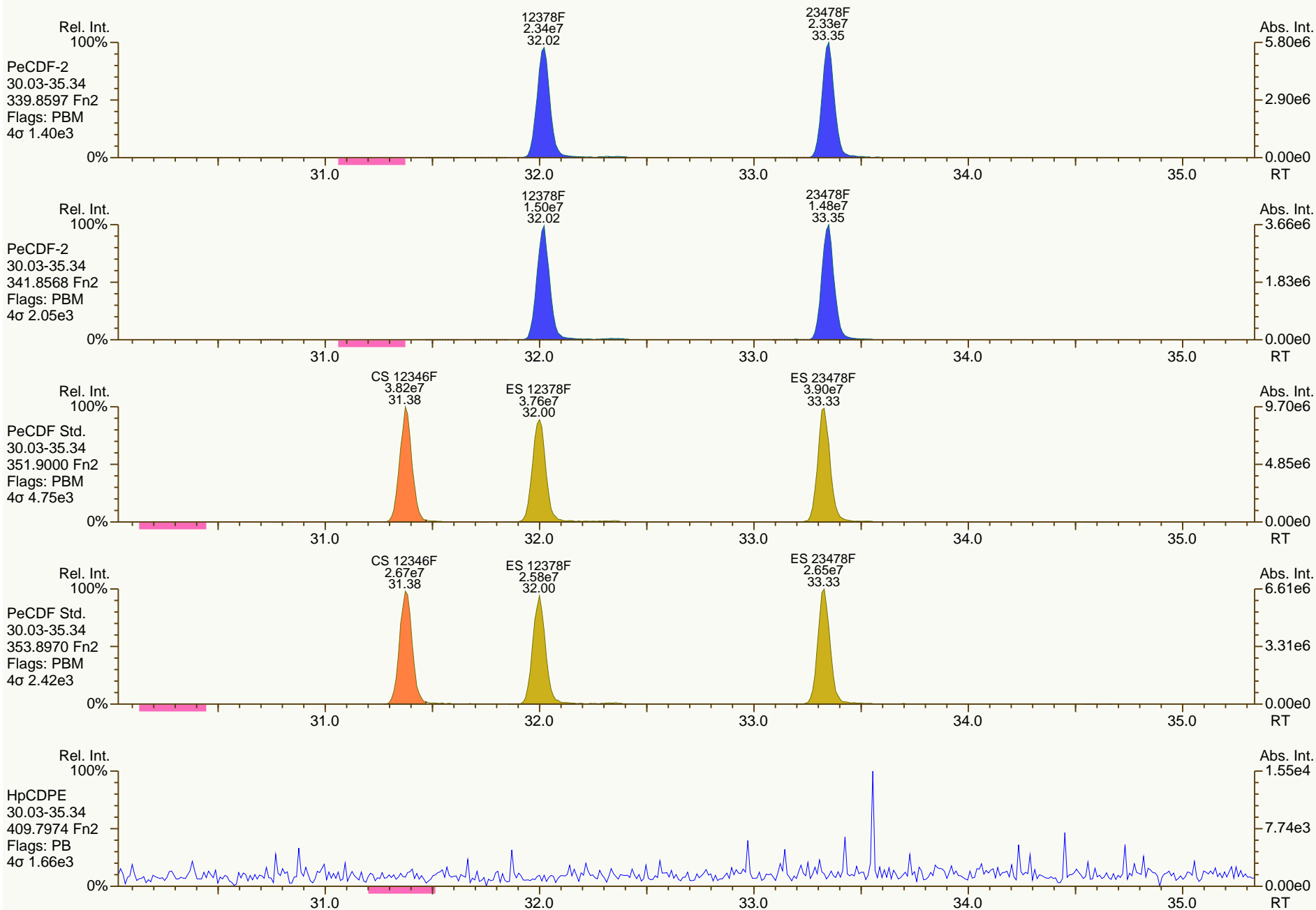
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Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

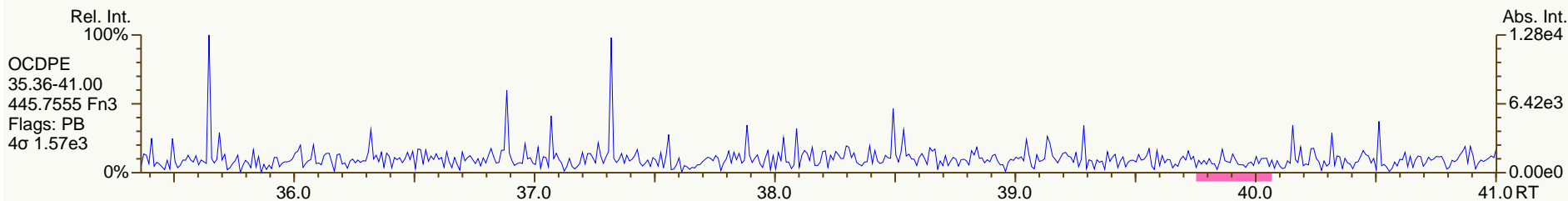
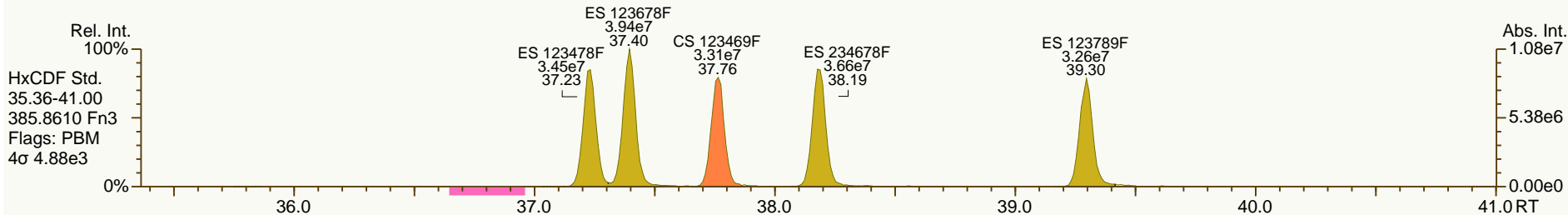
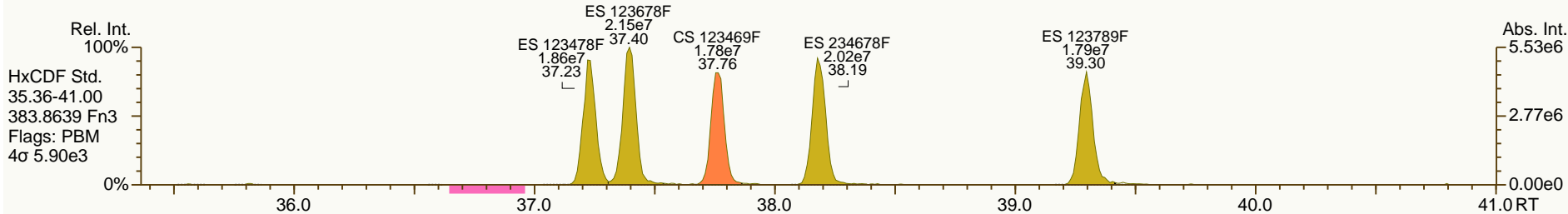
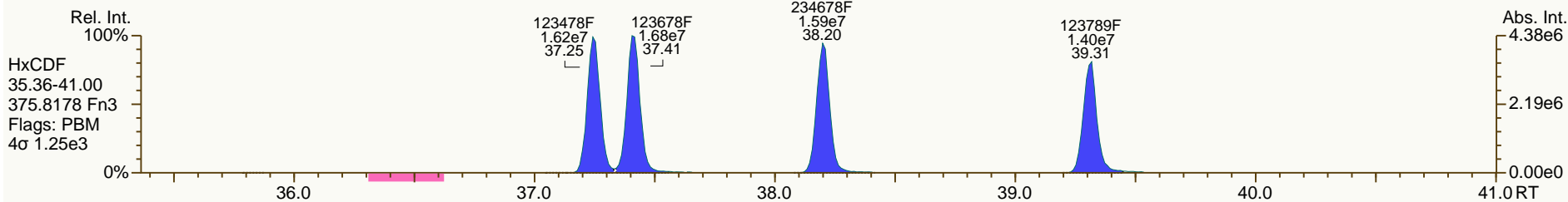
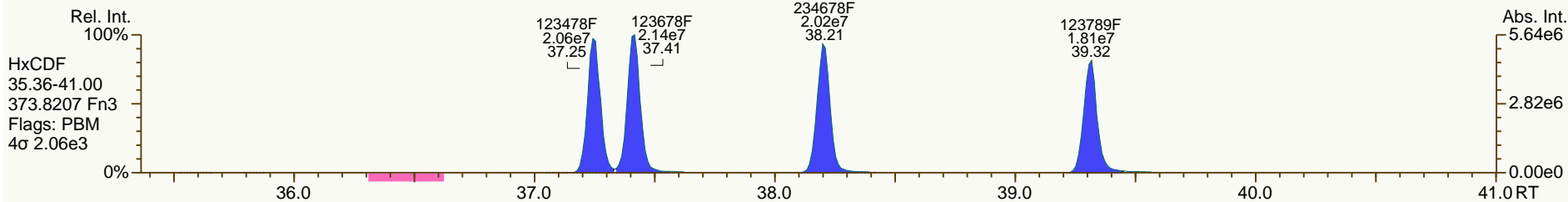
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Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

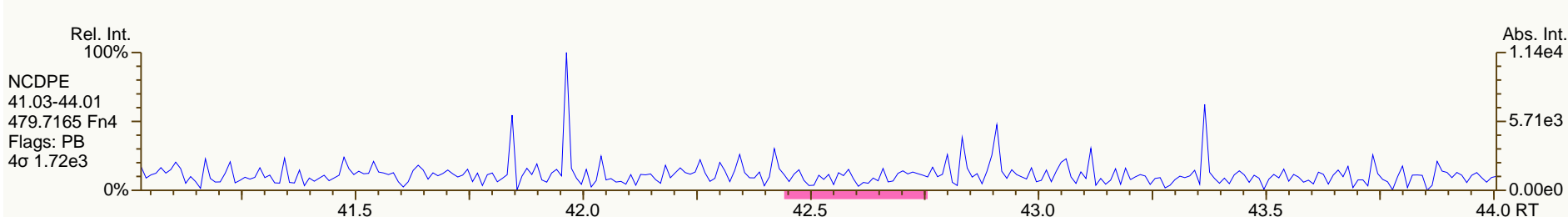
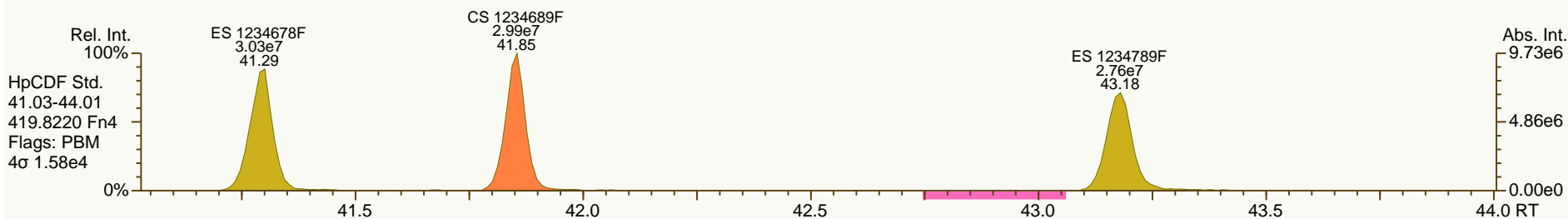
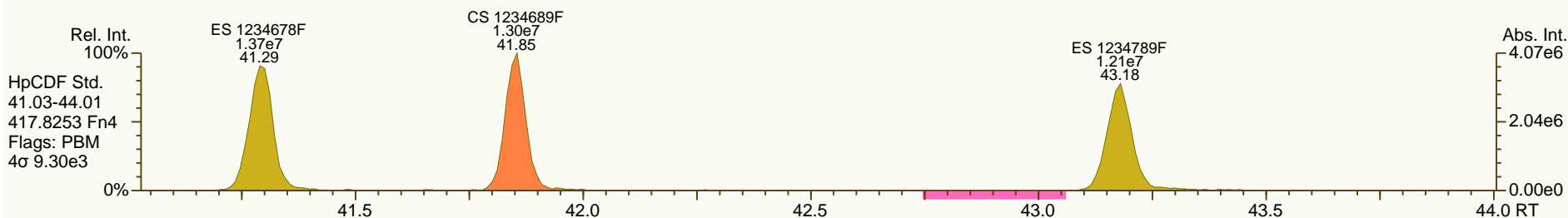
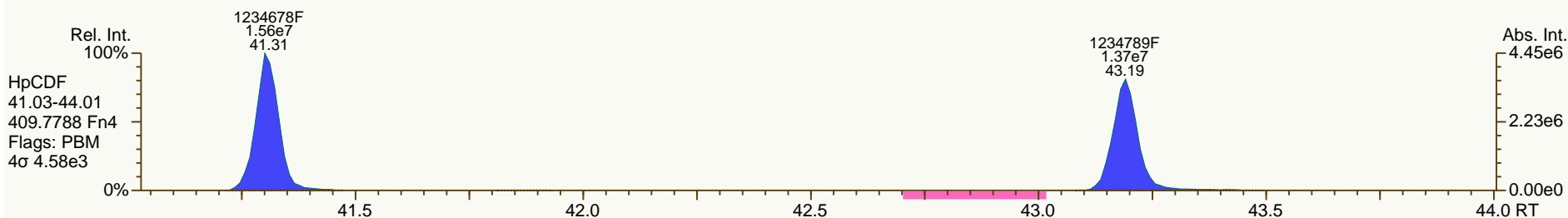
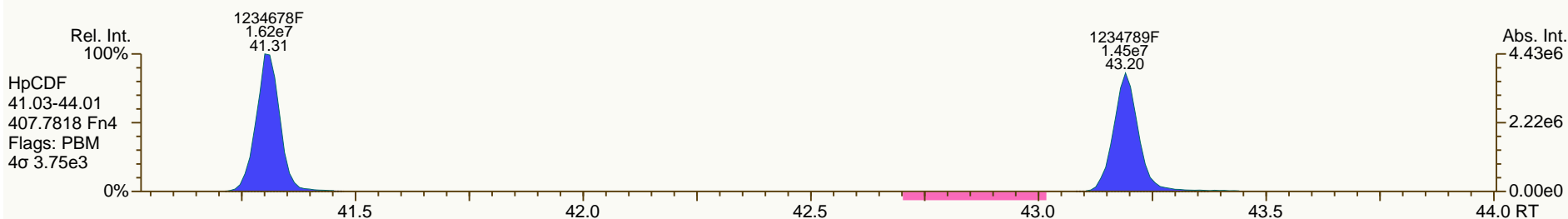
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User: MDC Datafile: 131004P1-01



SGS-AP ID: CS3_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

Acq: 04-OCT-2013 13:32:45
User: MDC Datafile: 131004P1-01



SGS-AP ID: CS3_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

Acq: 04-OCT-2013 13:32:45
User: MDC Datafile: 131004P1-01



Dioxin/Furan QC Summary		Acq'd: 04 Oct 2013 17:55 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS3_131004_DF_PB		UTP: 05-Oct-2013 10:55 MDC			Checkcode: 011-956-NHL		
Sample ID: 11012012A		Report: 05 Oct 2013 10:56 MC			Datafile: 131004P1-06		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.45	5.59E+06	0.82	Y	1.18	1.23	4%
12378-PeCDD	33.75	2.20E+07	1.60	Y	1.07	1.06	-2%
123478-HxCDD	38.41	2.11E+07	1.28	Y	1.19	1.31	10%
123678-HxCDD	38.55	2.11E+07	1.26	Y	1.19	1.29	8%
123789-HxCDD	38.88	2.34E+07	1.27	Y	1.12	1.24	11%
1234678-HpCDD	42.58	2.04E+07	1.05	Y	1.08	1.13	4%
OCDD	46.31	2.91E+07	0.91	Y	1.14	1.16	2%
2378-TCDF	26.46	8.37E+06	0.80	Y	1.10	1.13	3%
12378-PeCDF	32.01	3.79E+07	1.63	Y	1.17	1.25	7%
23478-PeCDF	33.34	3.84E+07	1.62	Y	1.14	1.23	8%
123478-HxCDF	37.24	3.54E+07	1.25	Y	1.34	1.37	2%
123678-HxCDF	37.40	3.77E+07	1.26	Y	1.23	1.28	4%
234678-HxCDF	38.19	3.54E+07	1.27	Y	1.26	1.31	4%
123789-HxCDF	39.30	3.12E+07	1.28	Y	1.23	1.30	5%
1234678-HpCDF	41.30	3.10E+07	1.04	Y	1.42	1.45	2%
1234789-HpCDF	43.18	2.70E+07	1.06	Y	1.39	1.41	1%
OCDF	46.56	4.02E+07	0.90	Y	1.11	1.13	2%
ES 2378-TCDD	27.43	4.55E+07	0.79	Y	1.02	1.01	-1%
ES 12378-PeCDD	33.73	4.17E+07	1.62	Y	0.92	0.92	1%
ES 123478-HxCDD	38.39	3.22E+07	1.11	Y	1.02	0.92	-10%
ES 123678-HxCDD	38.53	3.27E+07	1.10	Y	1.01	0.93	-7%
ES 123789-HxCDD	38.86	3.79E+07	1.10	Y	1.14	1.08	-5%
ES 1234678-HpCDD	42.56	3.62E+07	1.05	Y	1.02	1.03	1%
ES OCDD	46.30	5.02E+07	0.88	Y	0.72	0.72	-1%
ES 2378-TCDF	26.43	7.41E+07	0.73	Y	1.01	1.04	3%
ES 12378-PeCDF	31.99	6.07E+07	1.41	Y	0.89	0.85	-4%
ES 23478-PeCDF	33.32	6.24E+07	1.40	Y	0.91	0.87	-3%
ES 123478-HxCDF	37.22	5.16E+07	0.53	Y	1.53	1.47	-4%
ES 123678-HxCDF	37.38	5.91E+07	0.54	Y	1.73	1.69	-2%
ES 234678-HxCDF	38.17	5.42E+07	0.56	Y	1.61	1.55	-4%
ES 123789-HxCDF	39.29	4.80E+07	0.54	Y	1.39	1.37	-2%
ES 1234678-HpCDF	41.28	4.29E+07	0.45	Y	1.20	1.22	2%
ES 1234789-HpCDF	43.17	3.85E+07	0.43	Y	1.07	1.10	3%
ES OCDF	46.54	7.09E+07	0.90	Y	1.04	1.01	-3%

Dioxin/Furan QC Summary		Acq'd: 04 Oct 2013 17:55 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS3_131004_DF_PB		UTP: 05-Oct-2013 10:55 MDC			Checkcode: 011-956		
Sample ID: 11012012A		Report: 05 Oct 2013 10:56 MC			Datafile: 131004P1-06		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
JS 1234-TCDD	26.68	4.51E+07	0.80	Y	-	-	-
JS 1234-TCDF	24.90	7.14E+07	0.70	Y	-	-	-
JS 123467-HxCDD	38.75	1.75E+07	1.14	Y	-	-	-
CS 37C1-2378-TCDD	27.45	5.26E+06	n/a	-	1.13	1.17	3%
CS 12347-PeCDD	33.13	4.08E+07	1.62	Y	0.88	0.90	3%
CS 12346-PeCDF	31.37	6.20E+07	1.41	Y	0.90	0.87	-4%
CS 123469-HxCDF	37.75	4.92E+07	0.54	Y	1.40	1.40	0%
CS 1234689-HpCDF	41.84	4.06E+07	0.45	Y	1.09	1.16	6%
SS 37C1-2378-TCDD	27.45	5.26E+06	n/a	-	1.11	1.16	4%
SS 12347-PeCDD	33.13	4.08E+07	1.62	Y	0.96	0.98	2%
SS 12346-PeCDF	31.37	6.20E+07	1.41	Y	1.02	1.02	0%
SS 123469-HxCDF	37.75	4.92E+07	0.54	Y	0.81	0.83	2%
SS 1234689-HpCDF	41.84	4.06E+07	0.45	Y	0.91	0.95	4%
AS 1368-TCDD	23.30	4.40E+07	0.79	Y	1.01	0.98	-3%
AS 1368-TCDF	21.10	8.34E+07	0.74	Y	1.22	1.17	-4%
FS 1278-TCDD	27.81	5.49E+07	0.79	Y	1.18	1.21	3%
FS 12478-PeCDD	32.28	4.55E+07	1.62	Y	1.06	1.09	3%
FS 123468-HxCDD	37.14	4.22E+07	1.14	Y	1.26	1.31	4%
FS 1234679-HpCDD	41.66	4.31E+07	1.06	Y	1.12	1.19	6%
TS 1378-TCDD	25.54	5.15E+07	0.79	Y	1.11	1.13	2%
OCDD-a	46.31	1.69E+06	2.68	Y	0.07	0.07	-1%
OCDF-a	46.55	2.38E+06	2.64	Y	0.06	0.07	6%

METHOD 1613B**PCDD/F CALIBRATION VERIFICATION****FORM 4A**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
 Instrument ID: MM1 GC Column ID: ZB-5ms
 VER Data Filename: 131004P1-06 Analysis Date: 04-OCT-2013 17:55:25

NATIVE ANALYTES	M/Z's FORMING RATIO	ION ABUND. RATIO	QC LIMITS	OK	CONC. FOUND	RANGE (ng/mL)	OK
2,3,7,8-TCDD	M/M+2	0.82	0.65 - 0.89	Y	10.4	7.8 - 12.9	Y
1,2,3,7,8-PeCDD	M+2/M+4	1.60	1.32 - 1.78	Y	49.1	39 - 65	Y
1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05 - 1.43	Y	55.2	39 - 64	Y
1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05 - 1.43	Y	54.2	39 - 64	Y
1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05 - 1.43	Y	55.4	41 - 61	Y
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88 - 1.20	Y	52	43 - 58	Y
OCDD	M+2/M+4	0.91	0.76 - 1.02	Y	102	79 - 126	Y
2,3,7,8-TCDF	M/M+2	0.80	0.65 - 0.89	Y	10.3	8.4 - 12	Y
1,2,3,7,8-PeCDF	M+2/M+4	1.63	1.32 - 1.78	Y	53.6	41 - 60	Y
2,3,4,7,8-PeCDF	M+2/M+4	1.62	1.32 - 1.78	Y	53.8	41 - 61	Y
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05 - 1.43	Y	51.2	45 - 56	Y
1,2,3,6,7,8-HxCDF	M+2/M+4	1.26	1.05 - 1.43	Y	51.8	44 - 57	Y
2,3,4,6,7,8-HxCDF	M+2/M+4	1.27	1.05 - 1.43	Y	51.8	44 - 57	Y
1,2,3,7,8,9-HxCDF	M+2/M+4	1.28	1.05 - 1.43	Y	52.7	45 - 56	Y
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	0.88 - 1.20	Y	51	45 - 55	Y
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.06	0.88 - 1.20	Y	50.6	43 - 58	Y
OCDF	M+2/M+4	0.90	0.76 - 1.02	Y	102	63 - 159	Y

See Table 9, Method 1613, for m/z specifications.

Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

Contract-required concentration range as specified in Table 6, Method 1613.

Processed: 05 Oct 2013 10:56 Analyst: MC

METHOD 1613B**PCDD/F CALIBRATION VERIFICATION****FORM 4B**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
 Instrument ID: MM1 GC Column ID: ZB-5ms
 VER Data Filename: 131004P1-06 Analysis Date: 04-OCT-2013 17:55:25

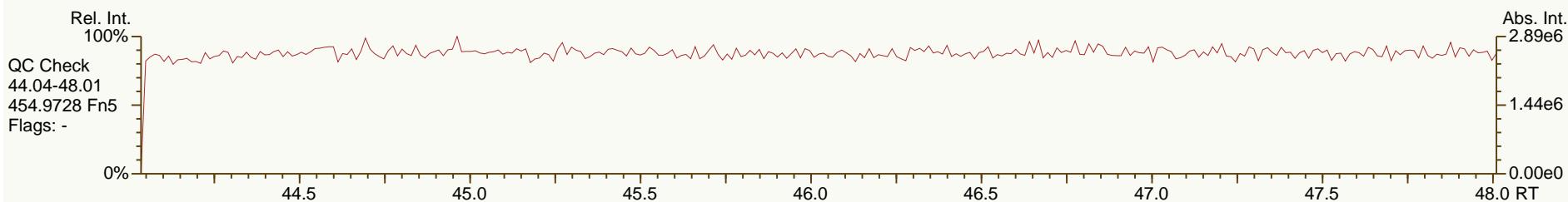
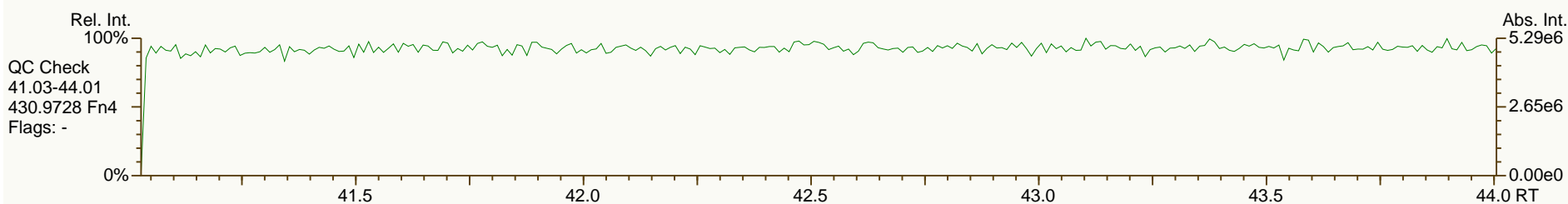
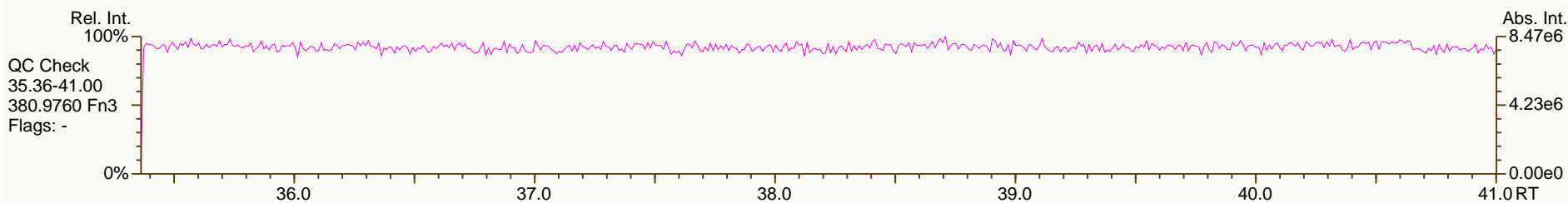
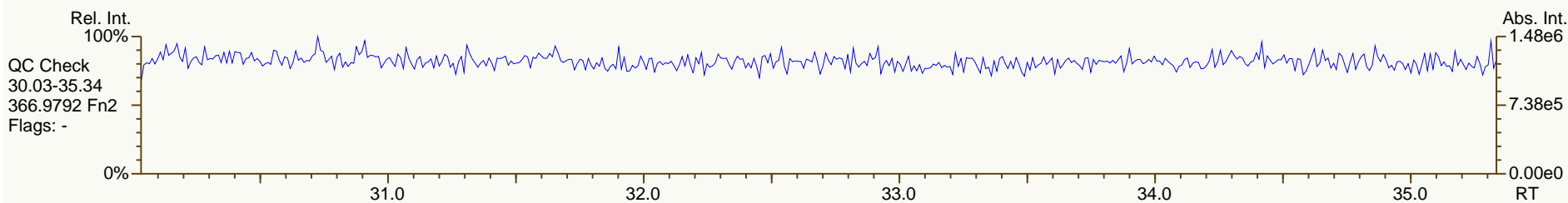
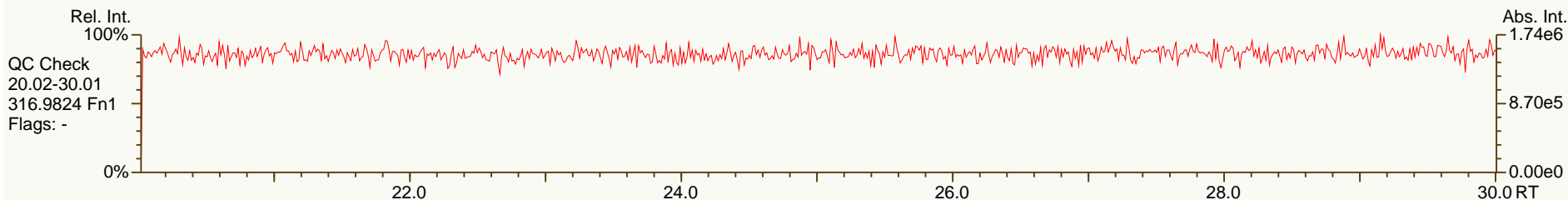
LABELED ANALYTES	M/Z's FORMING RATIO	ION ABUND. RATIO	QC LIMITS	OK	CONC. FOUND	RANGE (ng/mL)	OK
13C-2,3,7,8-TCDD	M/M+2	0.79	0.65 - 0.89	Y	98.5	82 - 121	Y
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.62	1.32 - 1.78	Y	101	62 - 160	Y
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.11	1.05 - 1.43	Y	89.7	85 - 117	Y
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.10	1.05 - 1.43	Y	92.5	85 - 118	Y
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.10	1.05 - 1.43	Y	94.8	85 - 118	Y
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88 - 1.20	Y	101	72 - 138	Y
13C-OCDD	M+2/M+4	0.88	0.76 - 1.02	Y	199	96 - 415	Y
13C-2,3,7,8-TCDF	M/M+2	0.73	0.65 - 0.89	Y	103	71 - 140	Y
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.41	1.32 - 1.78	Y	96	76 - 130	Y
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.40	1.32 - 1.78	Y	96.6	77 - 130	Y
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.53	0.43 - 0.59	Y	96.2	76 - 131	Y
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.54	0.43 - 0.59	Y	97.7	70 - 143	Y
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.56	0.43 - 0.59	Y	95.9	73 - 137	Y
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.54	0.43 - 0.59	Y	98.3	74 - 135	Y
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.45	0.37 - 0.51	Y	102	78 - 129	Y
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.43	0.37 - 0.51	Y	103	77 - 129	Y
13C-OCDF	M+2/M+4	0.90	0.76 - 1.02	Y	194	96 - 415	Y
CLEANUP STANDARDS							
37Cl-2,3,7,8-TCDD	n/a				10.3	7.9 - 12.7	Y
13C-1,2,3,4,7-PeCDD	M+2/M+4	1.62	1.32 - 1.78	Y	103	70 - 130	Y
13C-1,2,3,4,6-PeCDF	M+2/M+4	1.41	1.32 - 1.78	Y	96.4	70 - 130	Y
13C-1,2,3,4,6,9-HxCDF	M/M+2	0.54	0.43 - 0.59	Y	100	70 - 130	Y
13C-1,2,3,4,6,8,9-HpCDF	M/M+2	0.45	0.37 - 0.51	Y	106	70 - 130	Y

Processed: 05 Oct 2013 10:56 Analyst: MC

SGS-AP ID: CS3_131004_DF_PB
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

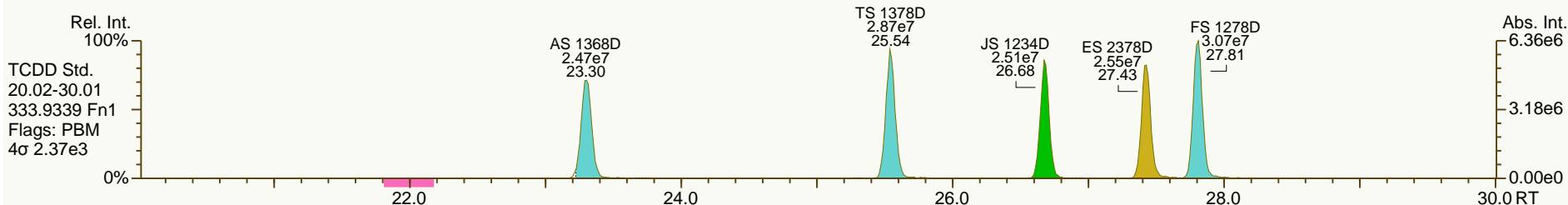
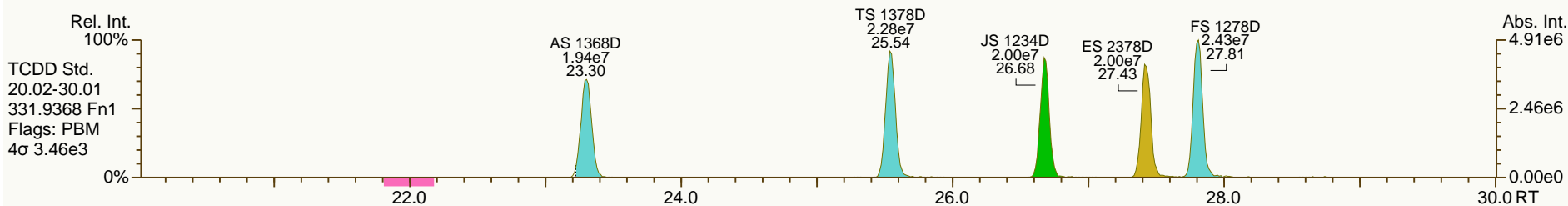
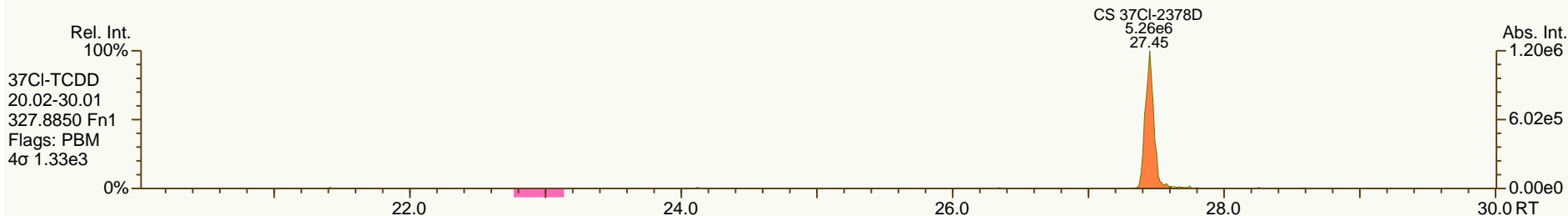
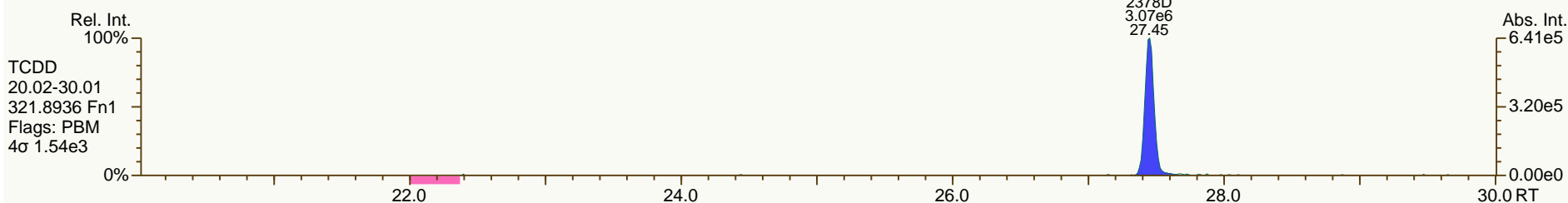
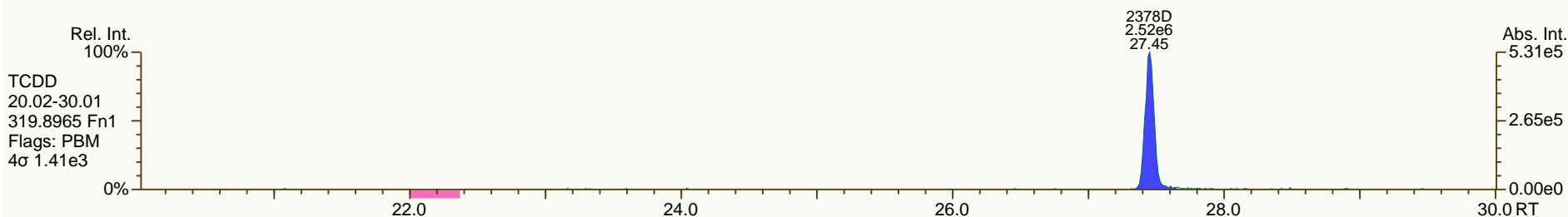
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SGS-AP ID: CS3_131004_DF_PB
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

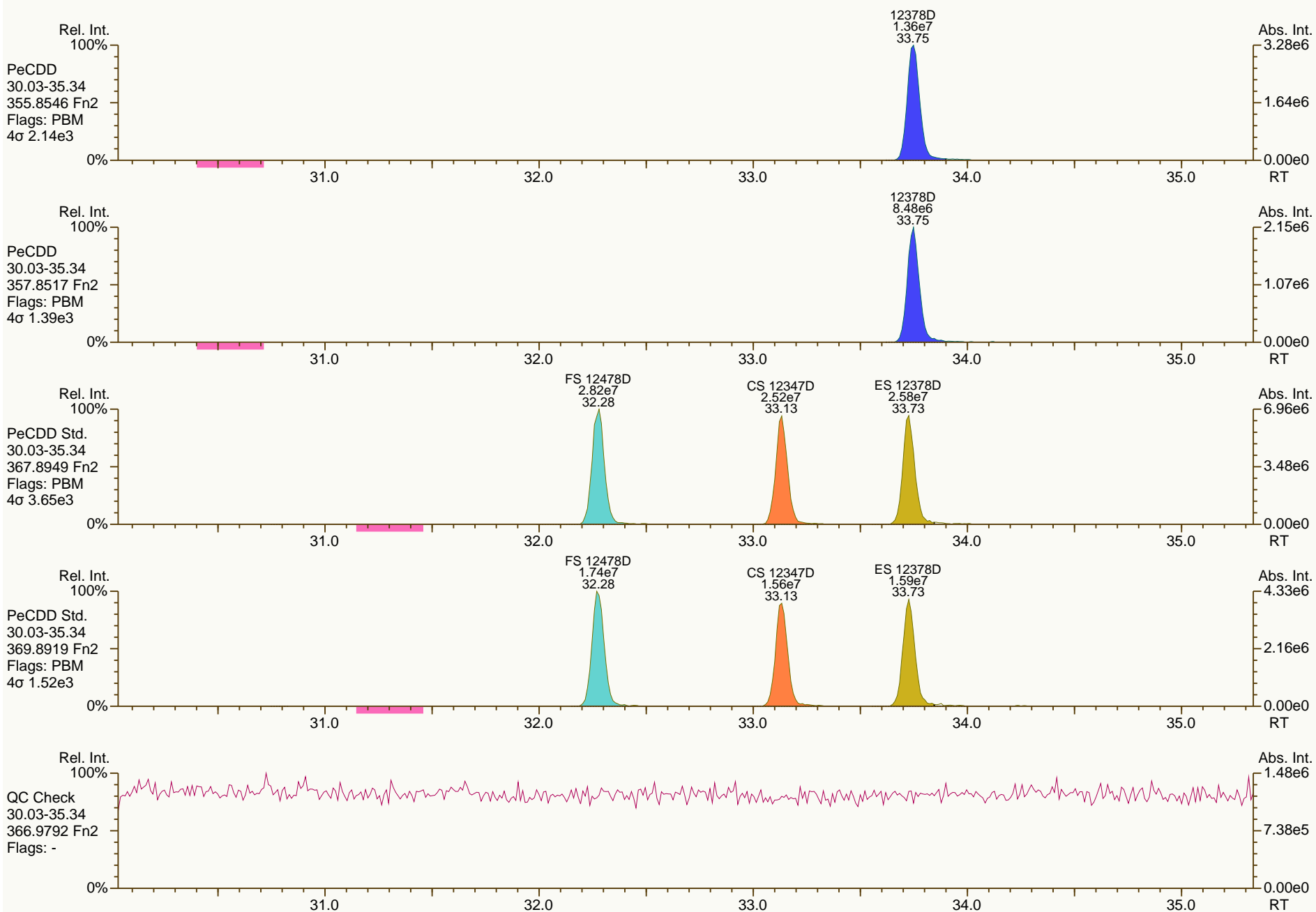
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SGS-AP ID: CS3_131004_DF_PB
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

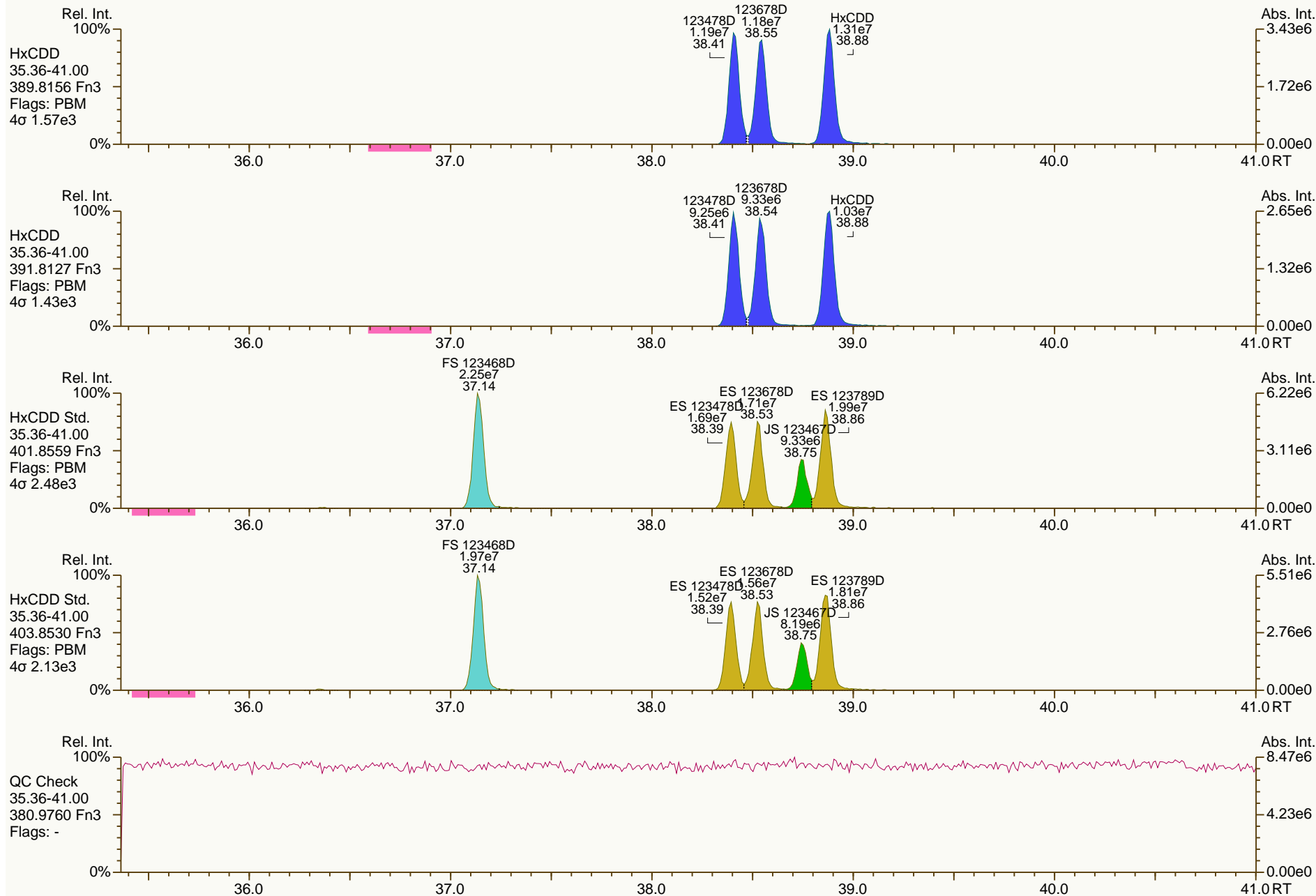
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SGS-AP ID: CS3_131004_DF_PB
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

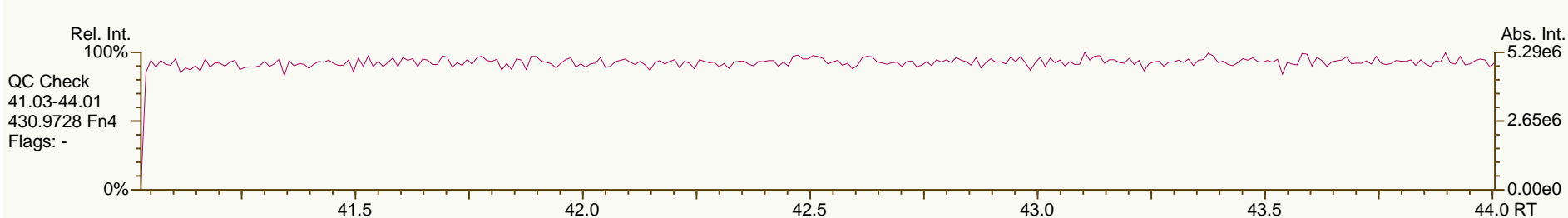
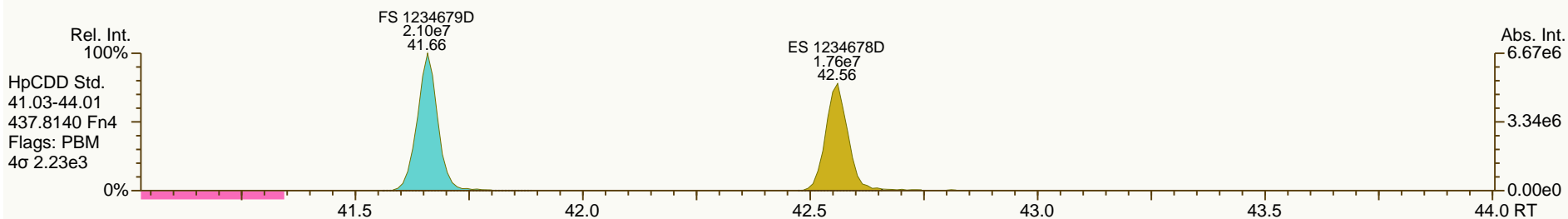
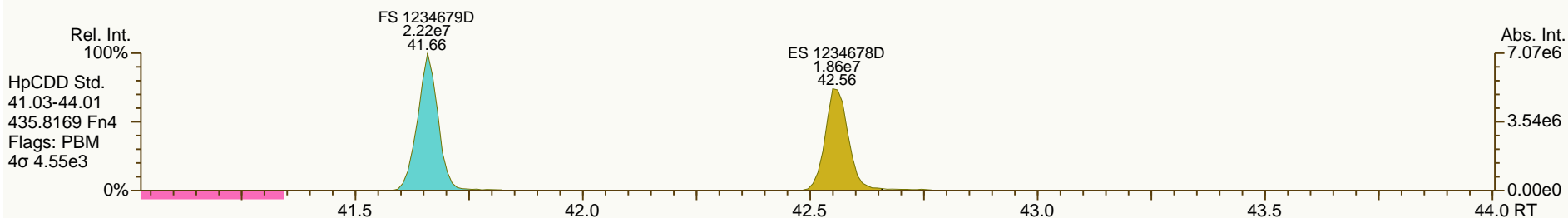
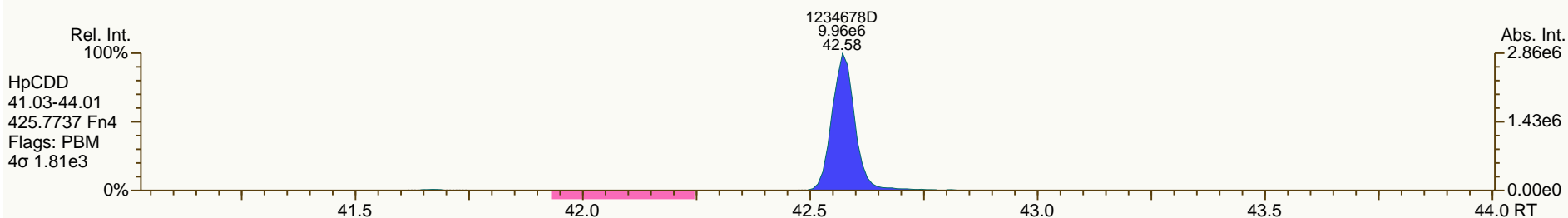
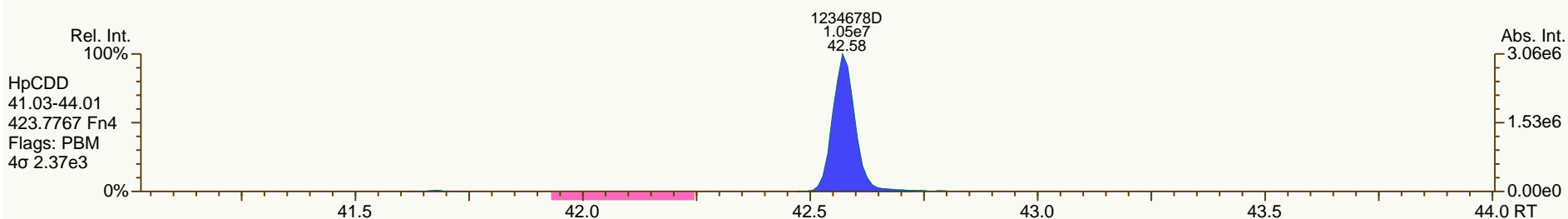
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SGS-AP ID: CS3_131004_DF_PB
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

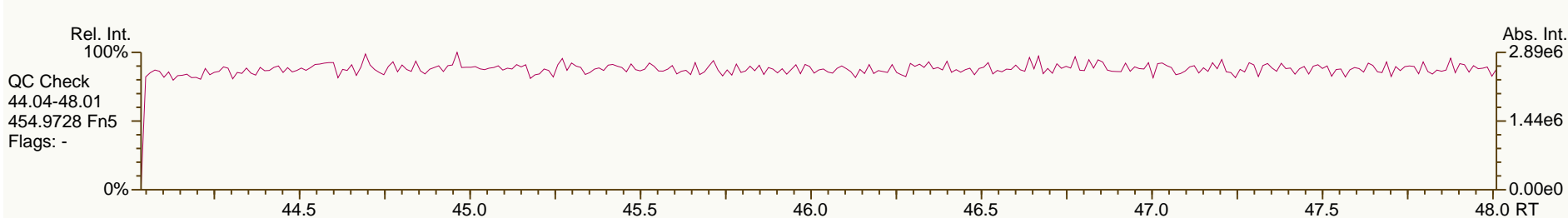
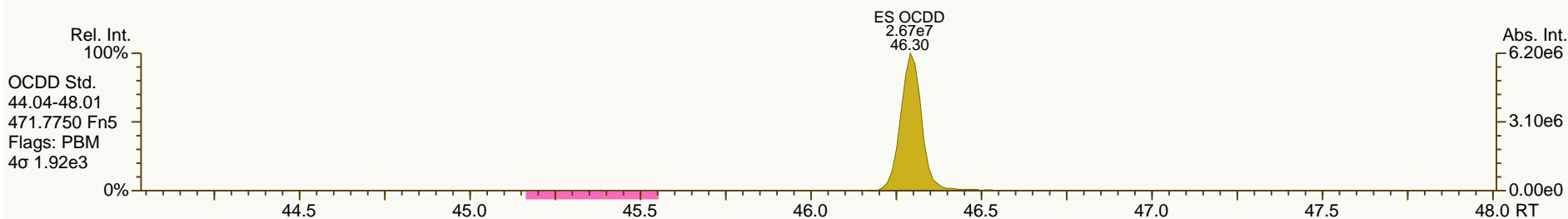
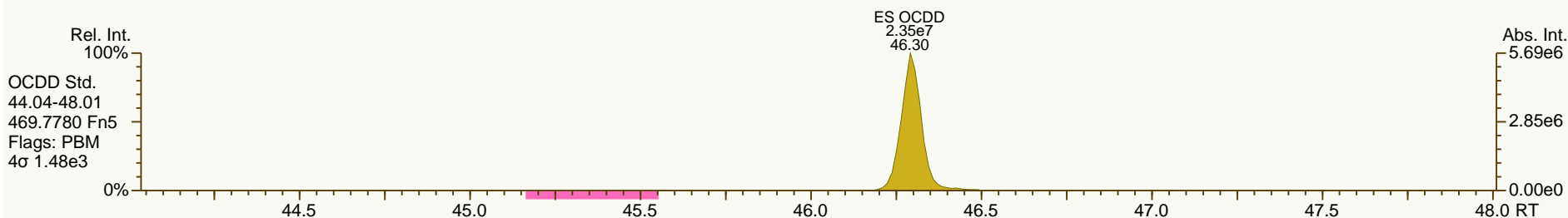
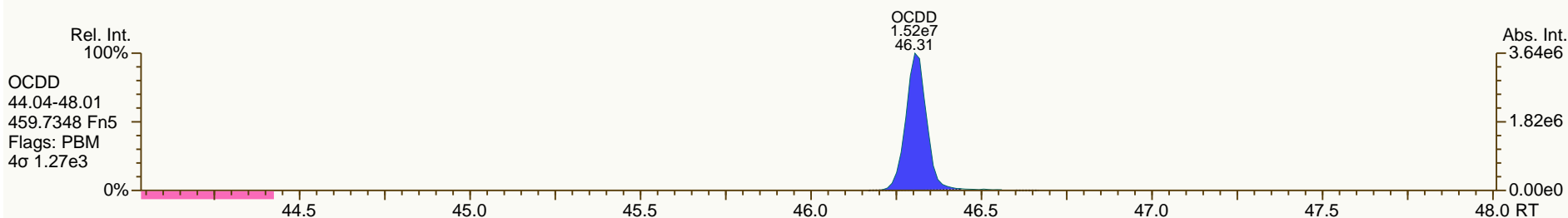
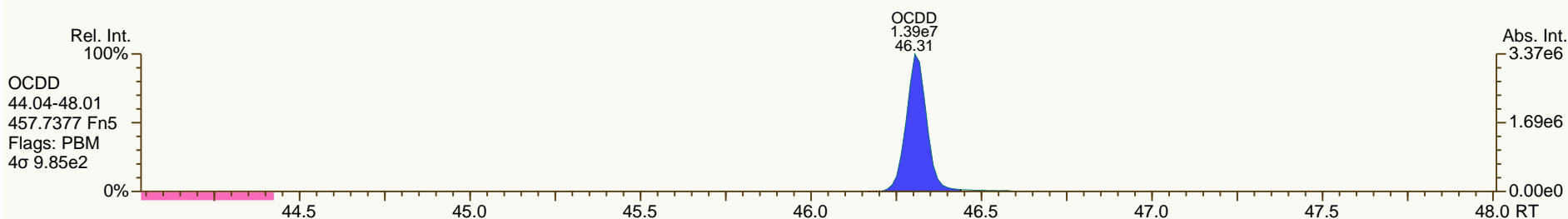
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SGS-AP ID: CS3_131004_DF_PB
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

Acq: 04-OCT-2013 17:55:25
User: MDC Datafile: 131004P1-06



SGS-AP ID: CS3_131004_DF_PB
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

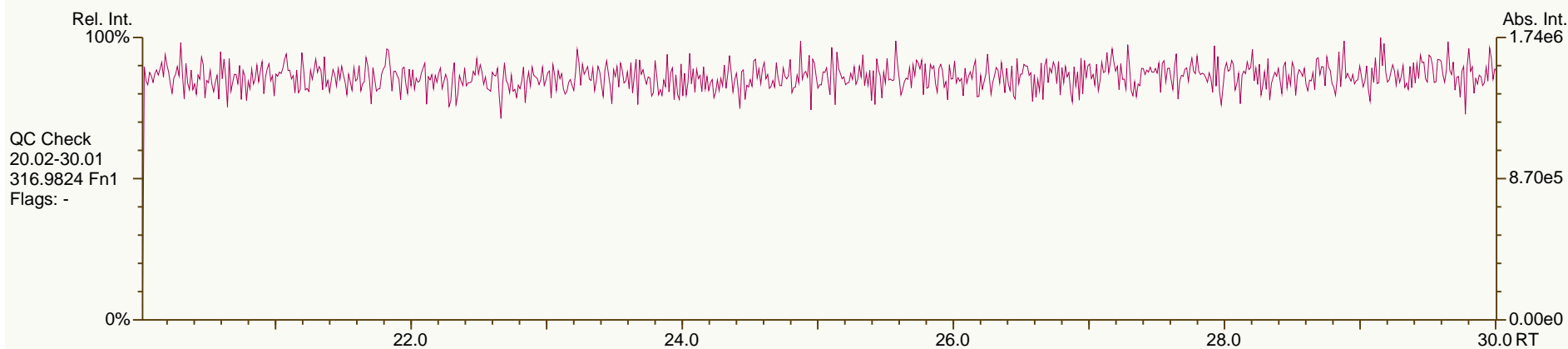
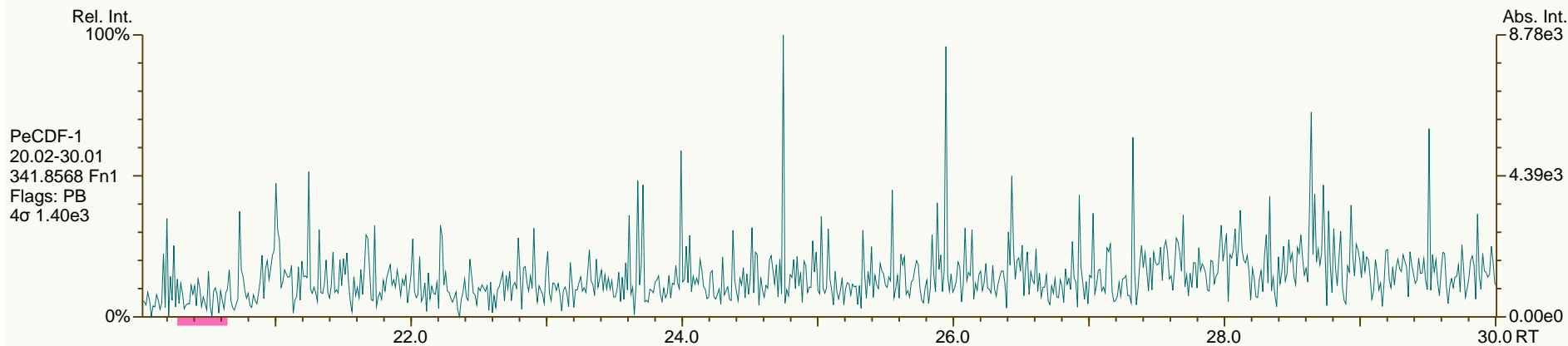
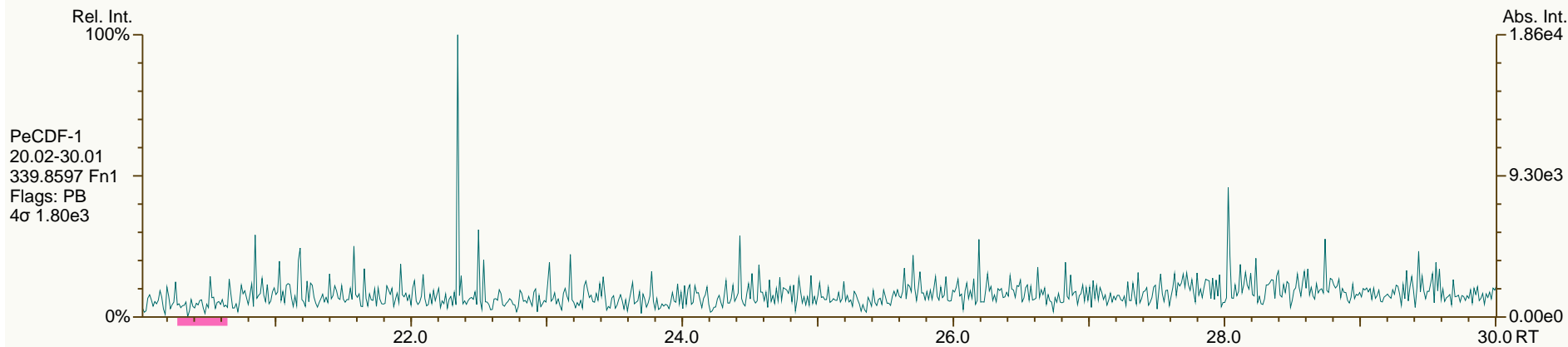
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Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

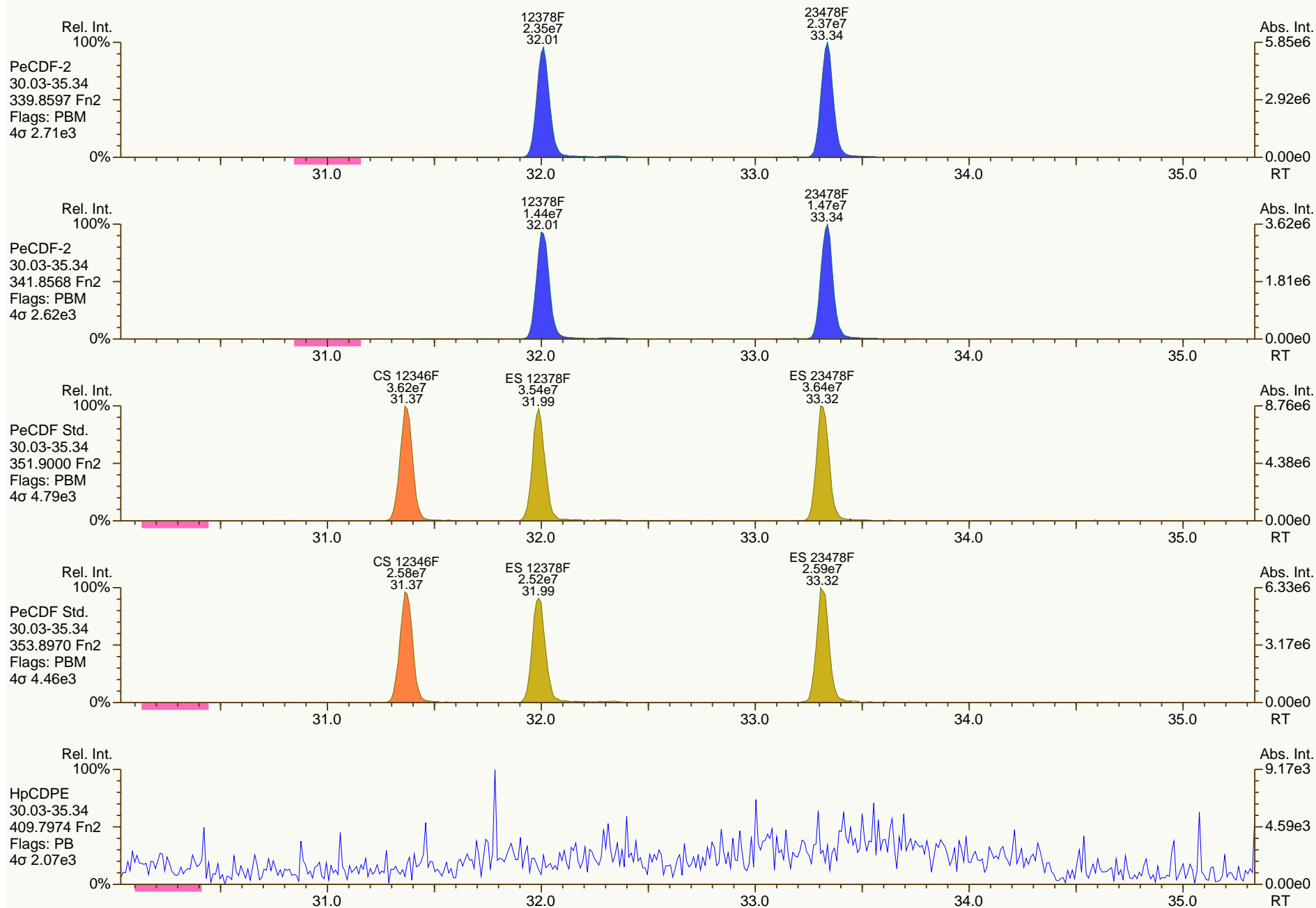
Acq: 04-OCT-2013 17:55:25
User: MDC Datafile: 131004P1-06



SGS-AP ID: CS3_131004_DF_PB
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

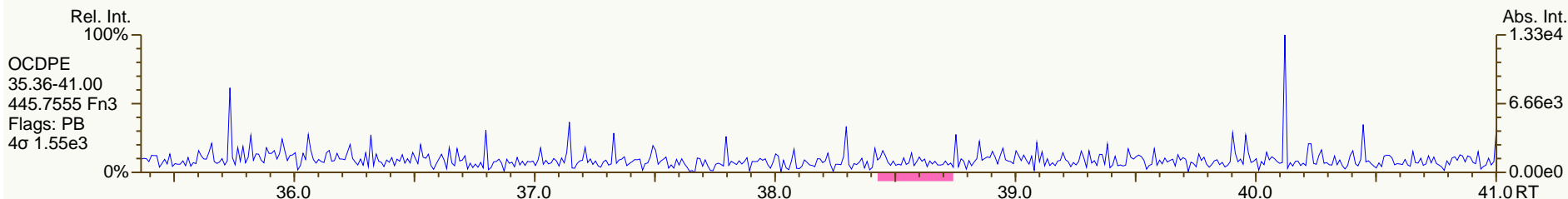
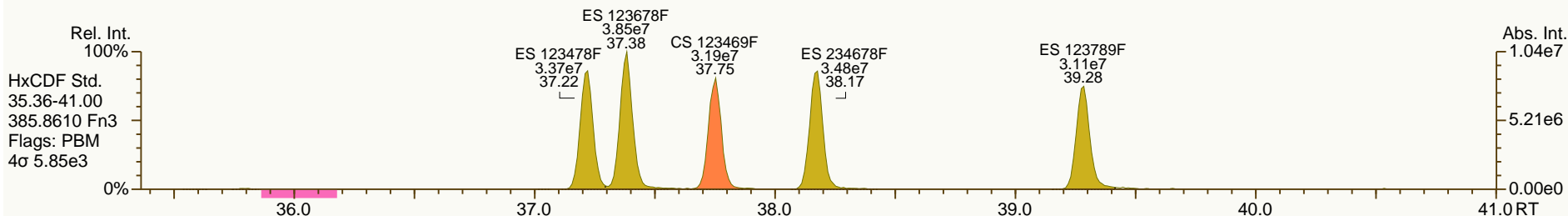
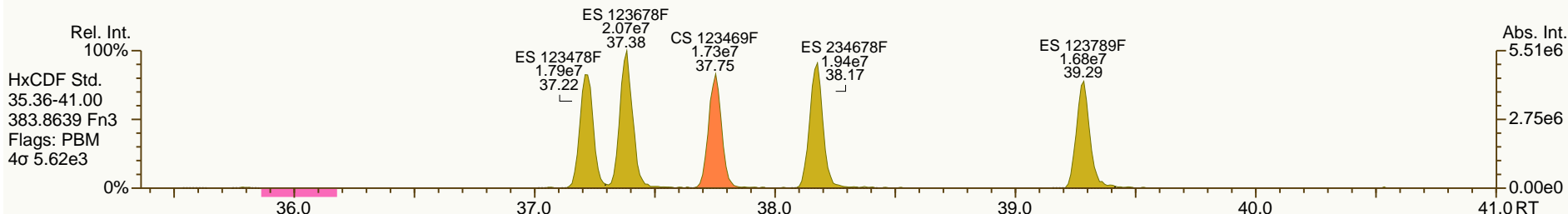
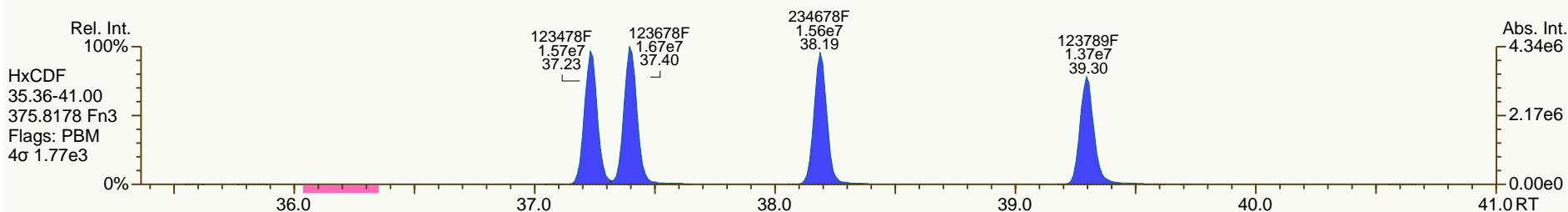
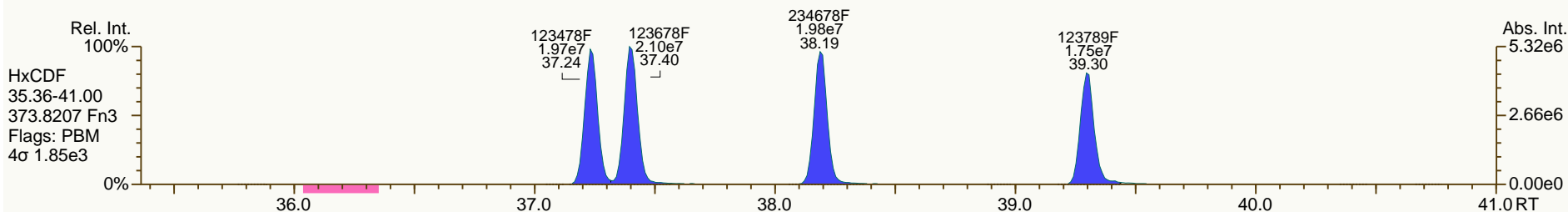
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SGS-AP ID: CS3_131004_DF_PB
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

Acq: 04-OCT-2013 17:55:25
User: MDC Datafile: 131004P1-06



SGS-AP ID: CS3_131004_DF_PB
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
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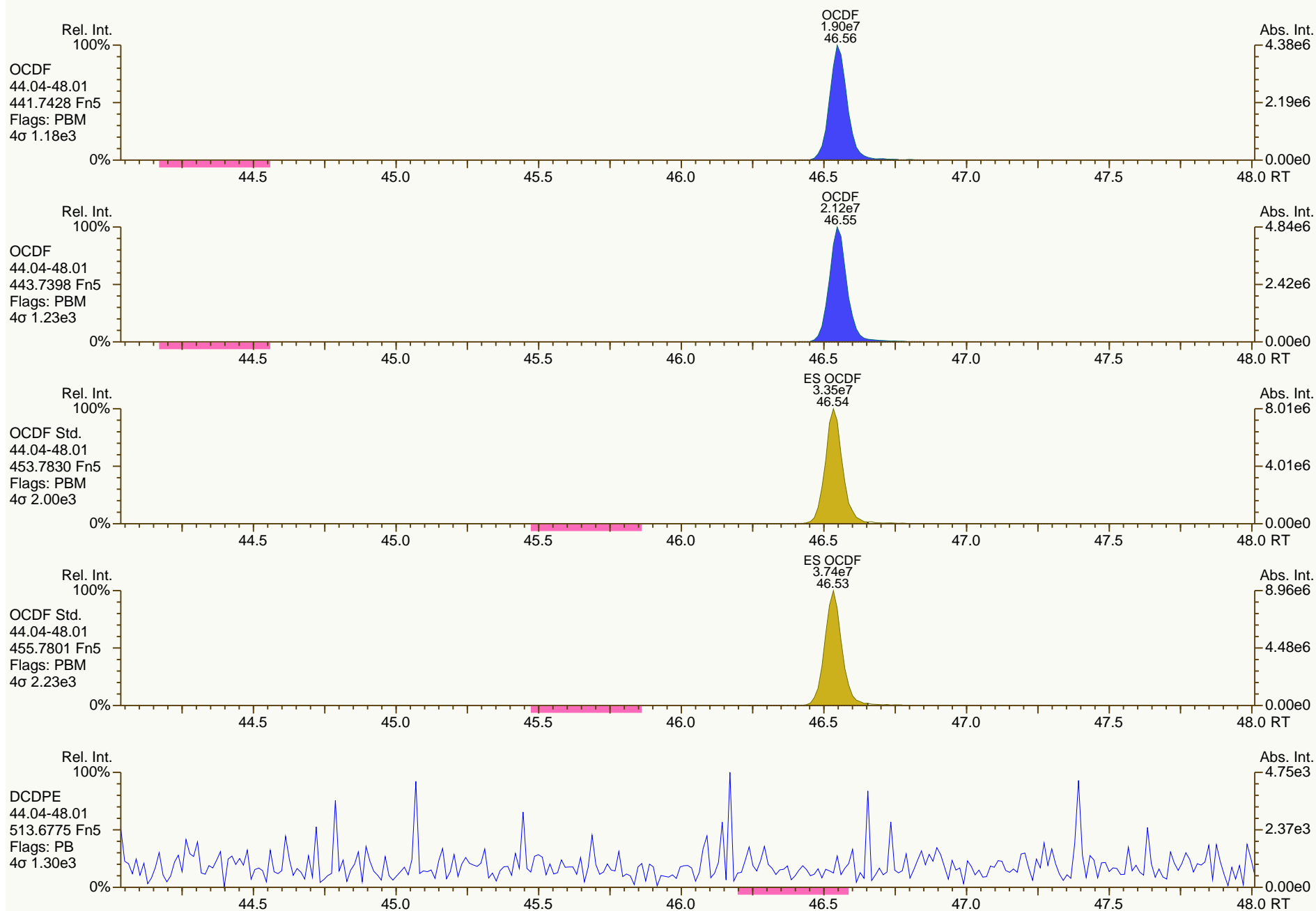
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SGS-AP ID: CS3_131004_DF_PB
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
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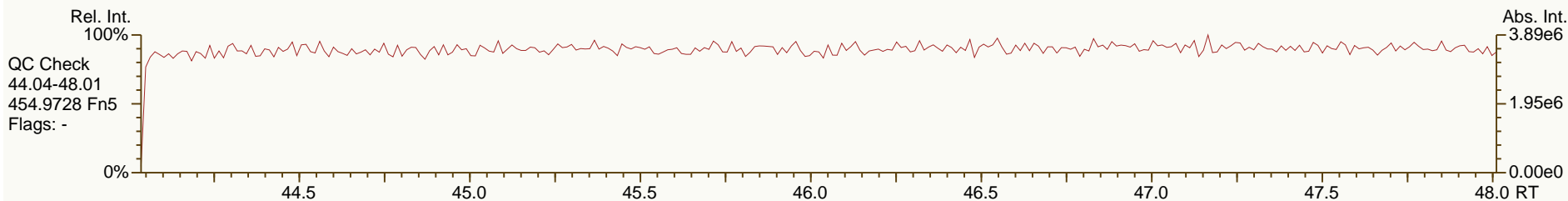
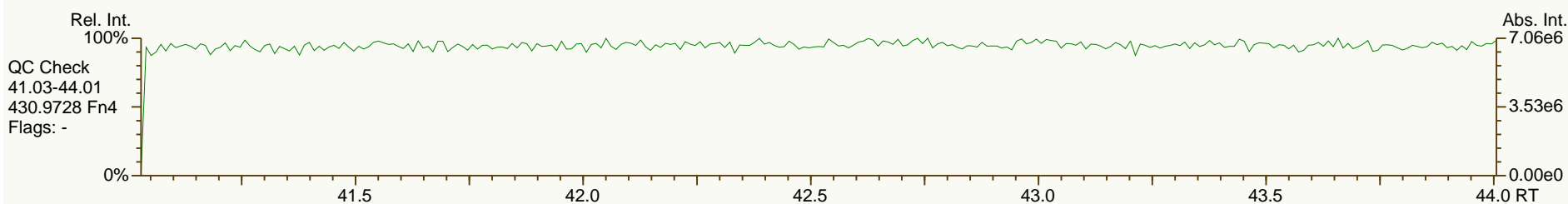
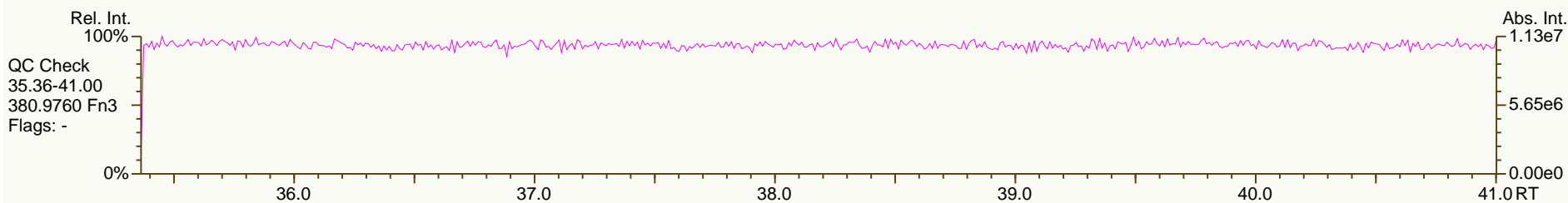
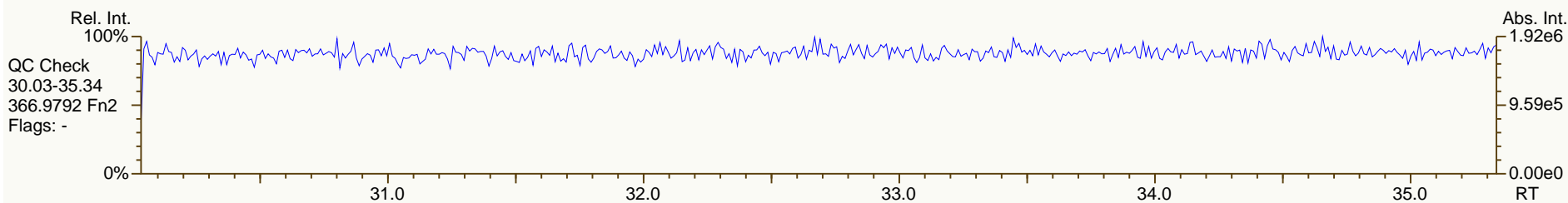
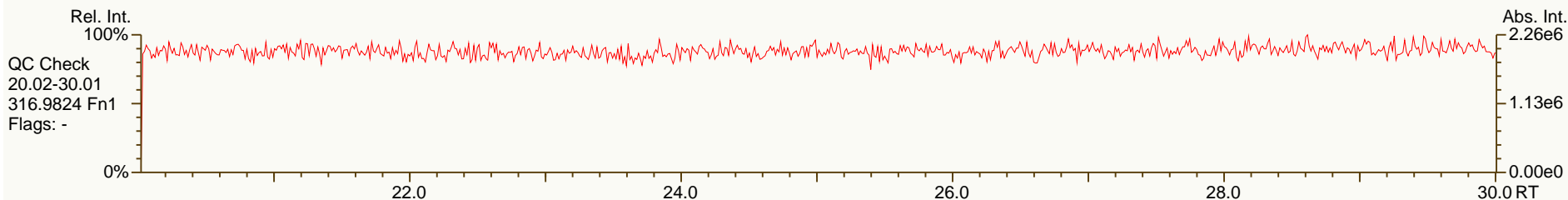
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SGS-AP ID: SBS_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

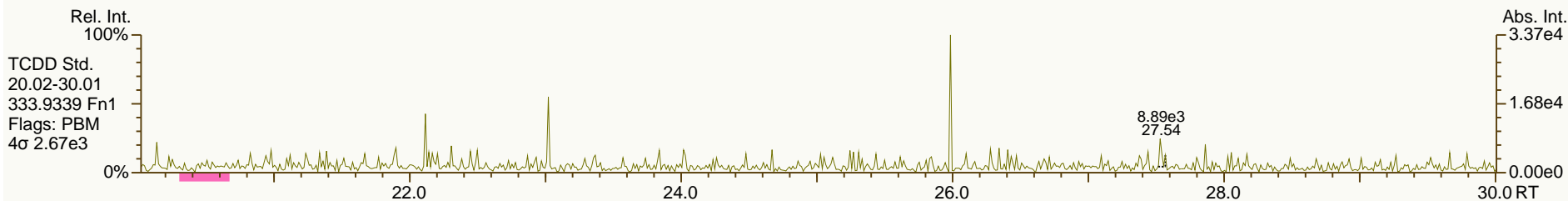
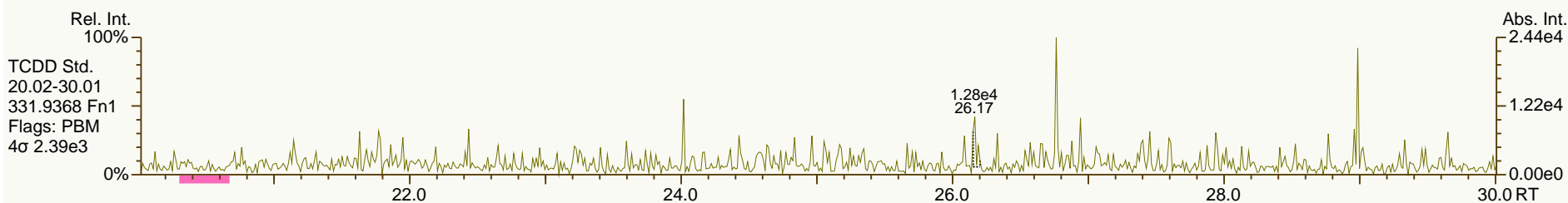
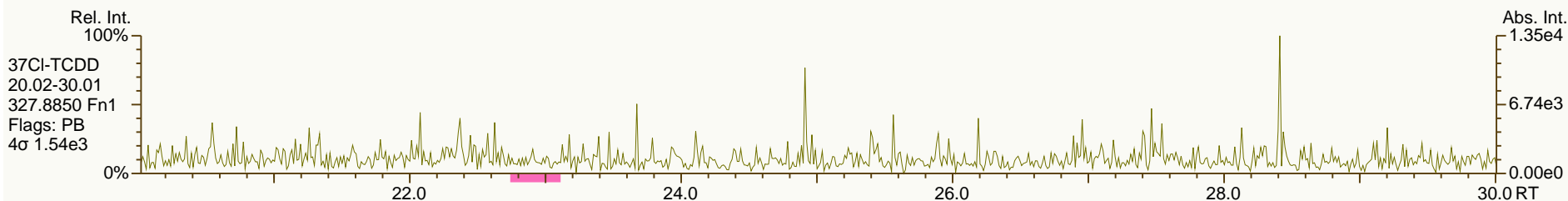
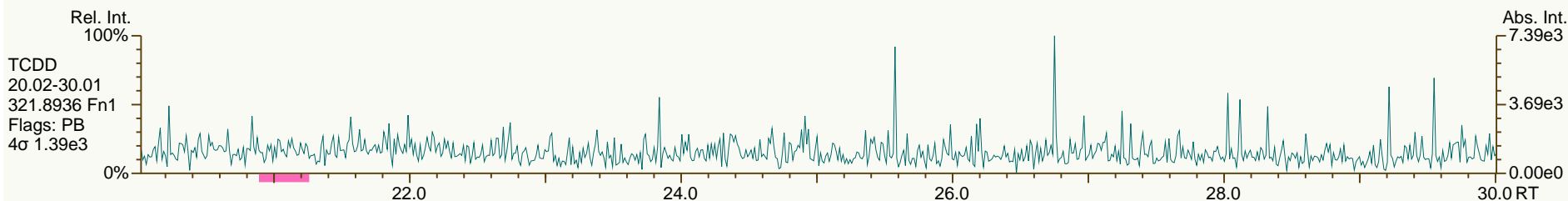
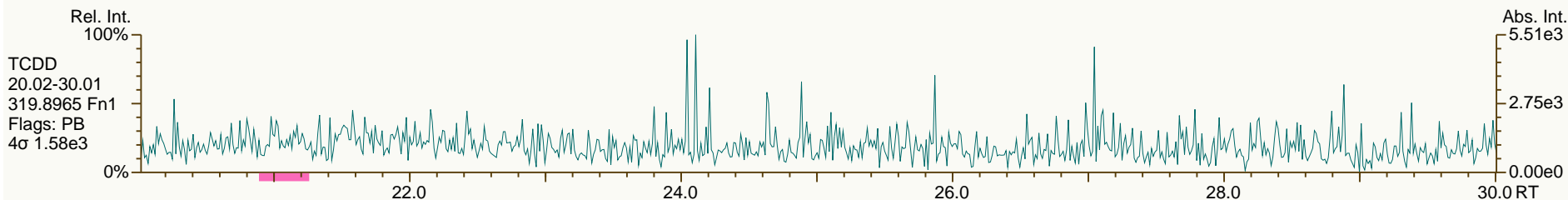
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SGS-AP ID: SBS_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

Acq: 04-OCT-2013 15:17:50
User: MDC Datafile: 131004P1-03



SGS-AP ID: SBS_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

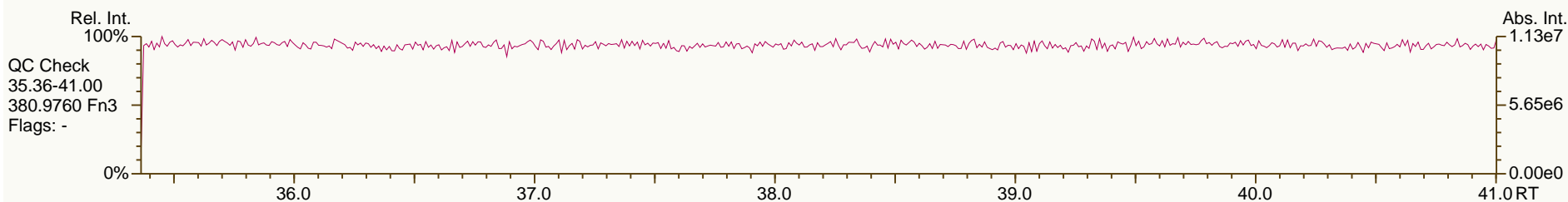
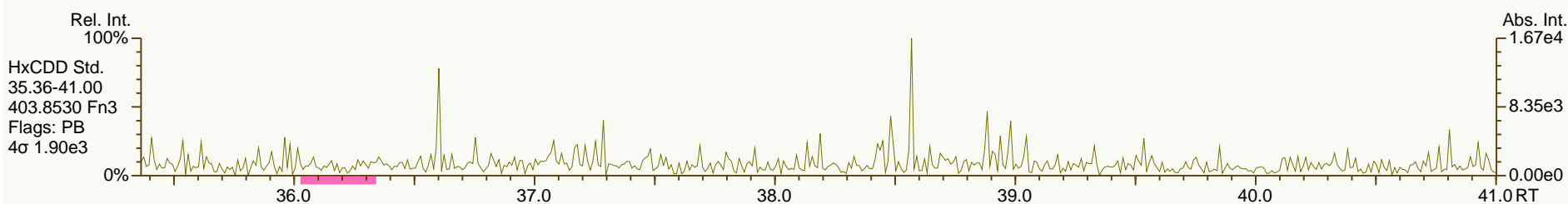
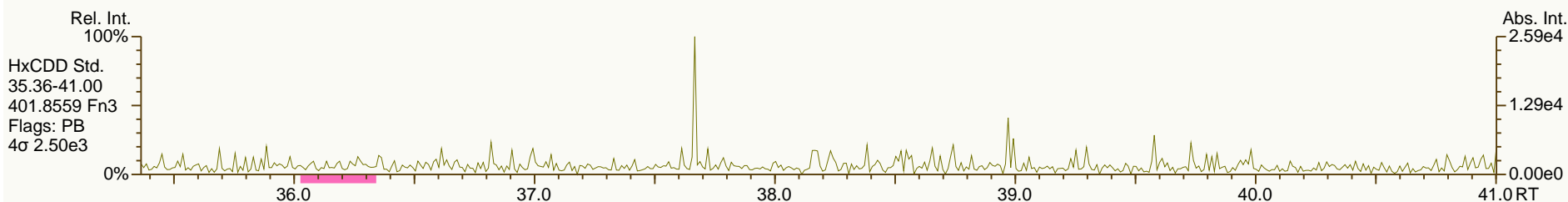
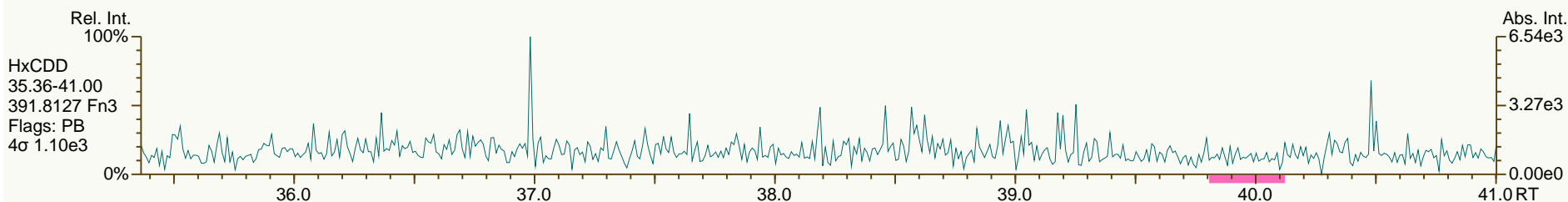
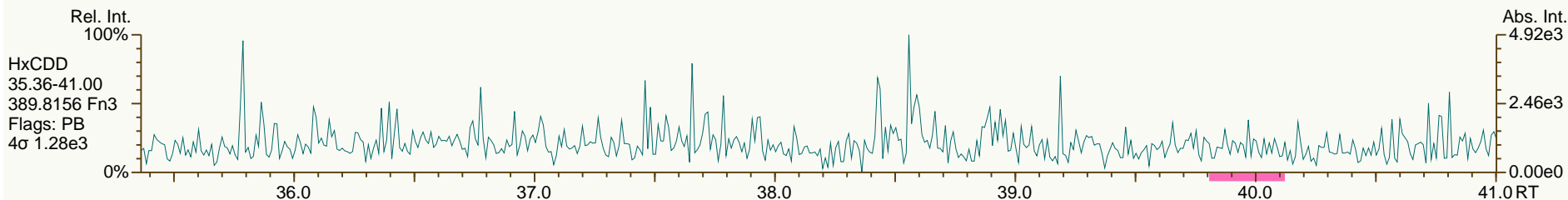
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SGS-AP ID: SBS_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

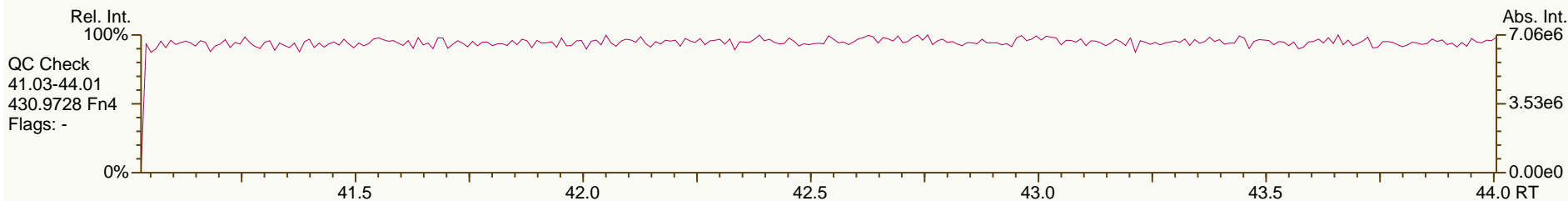
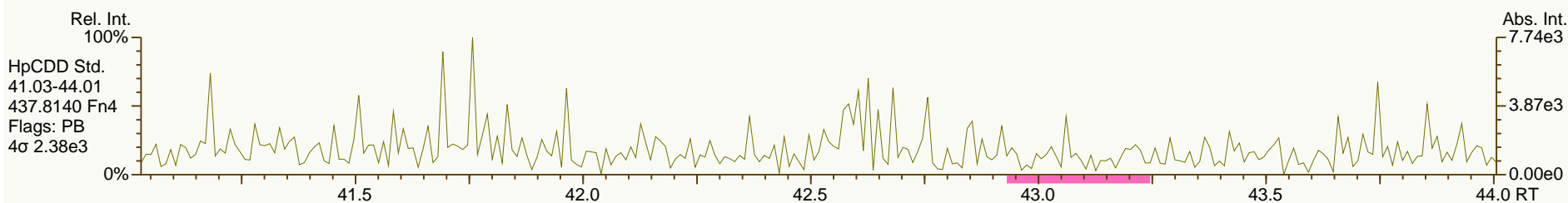
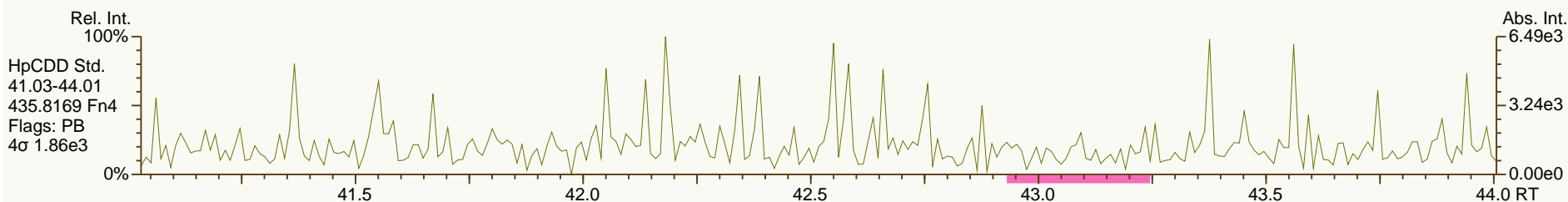
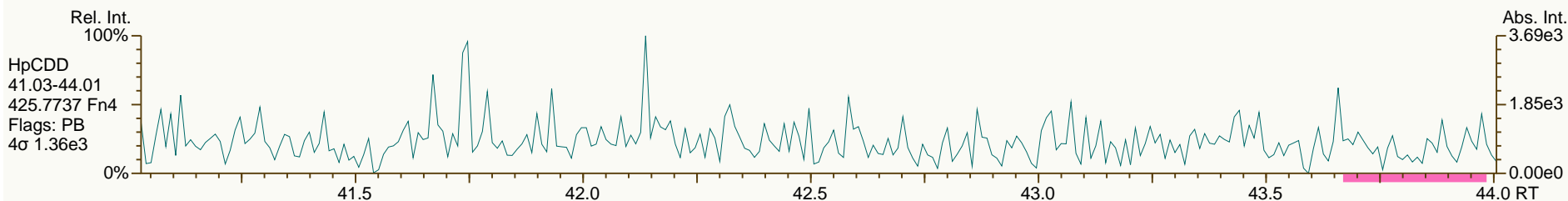
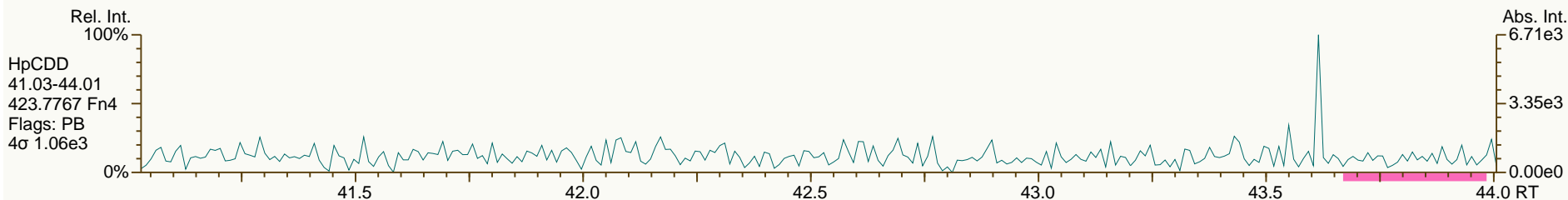
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SGS-AP ID: SBS_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

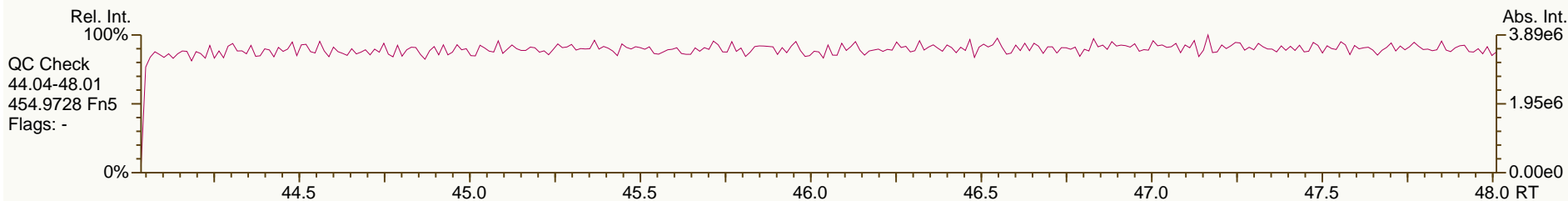
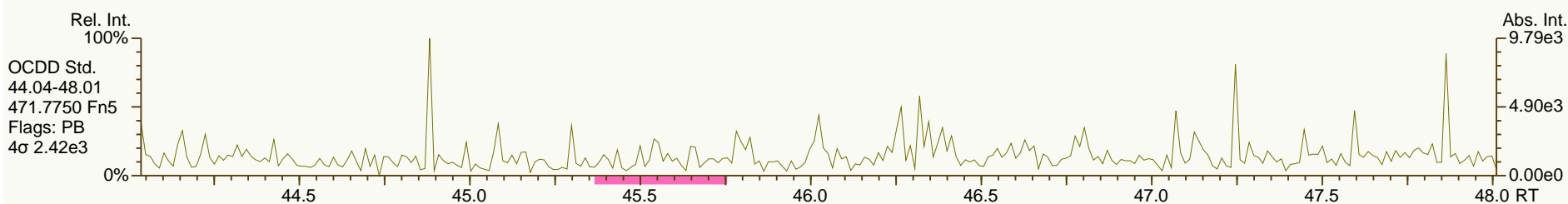
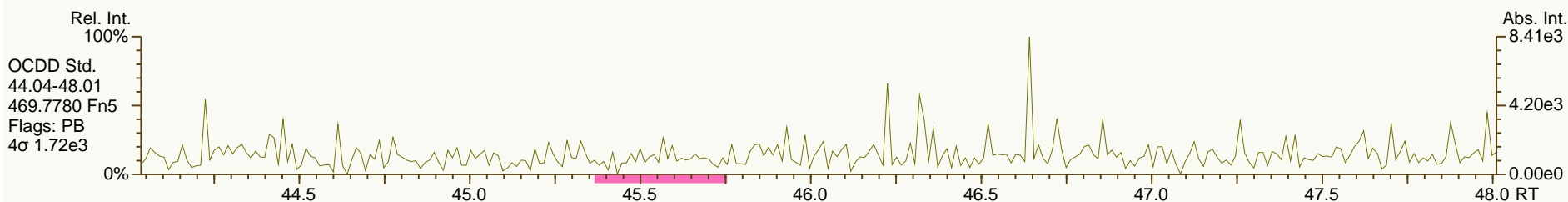
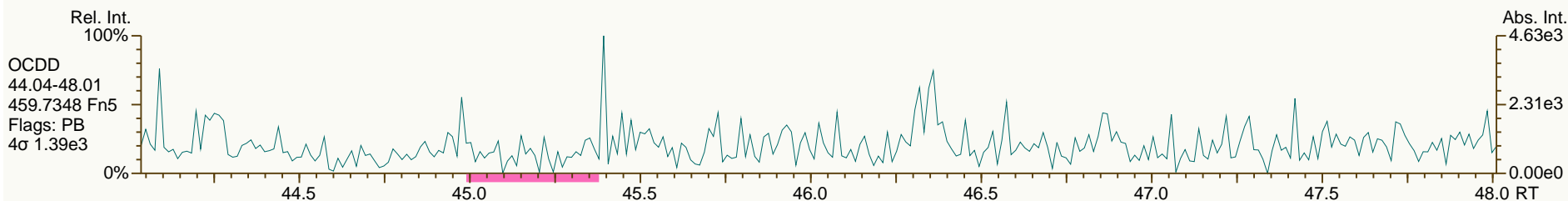
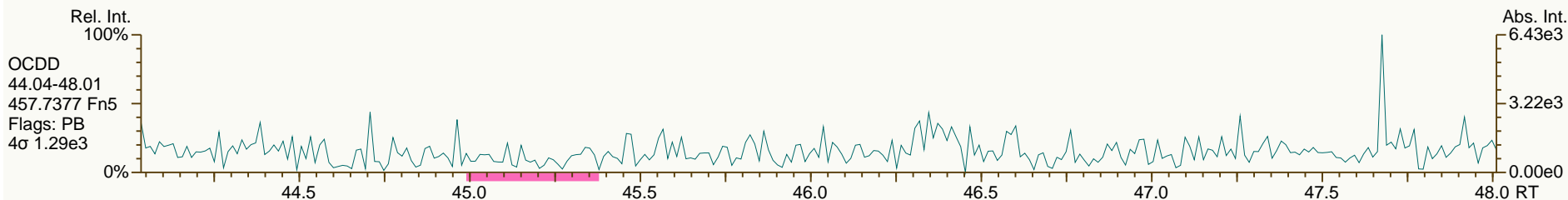
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SGS-AP ID: SBS_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

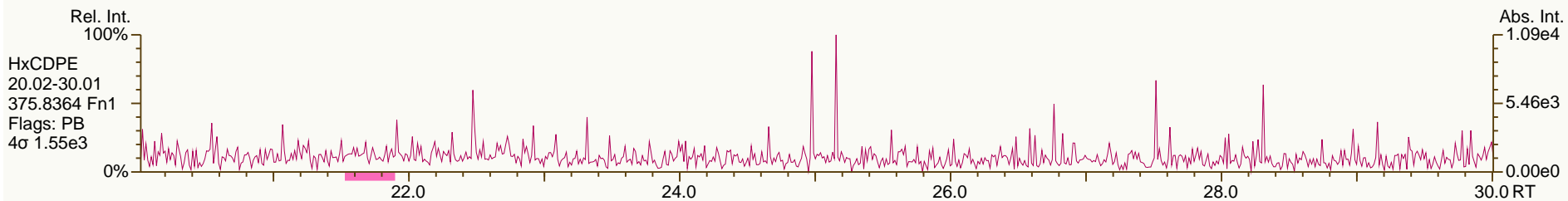
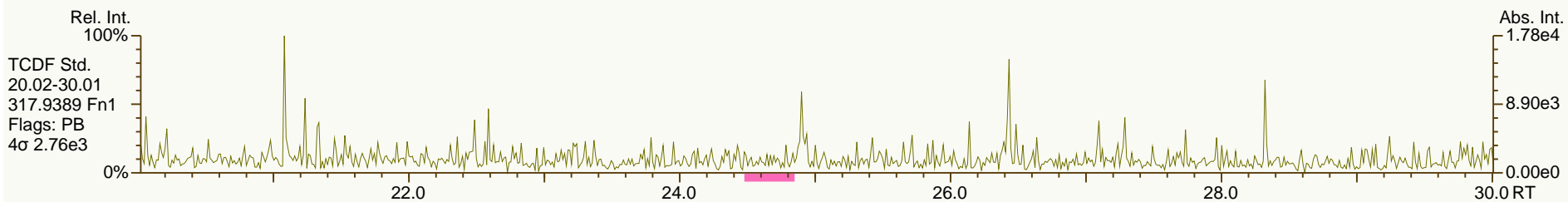
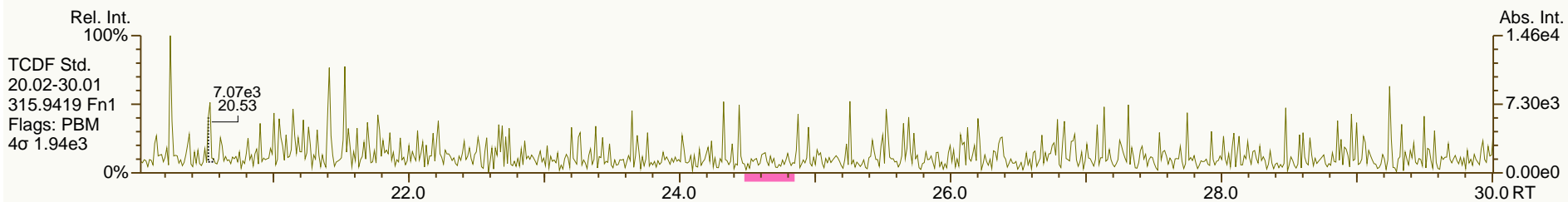
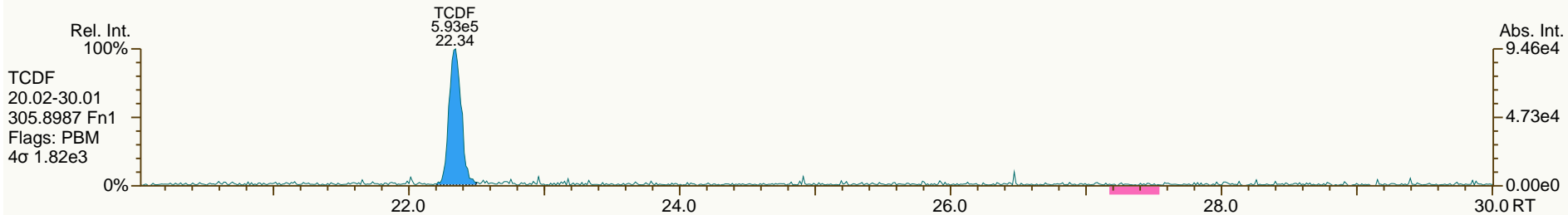
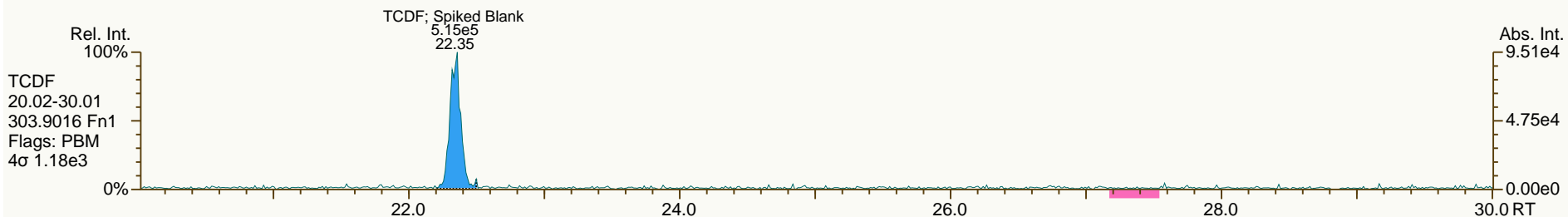
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SGS-AP ID: SBS_131004_DF_PA
 Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

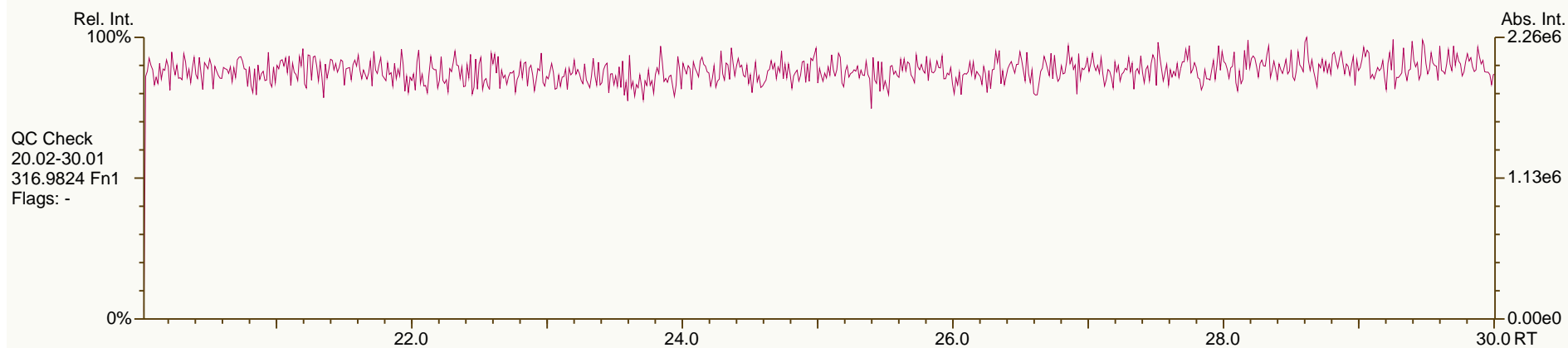
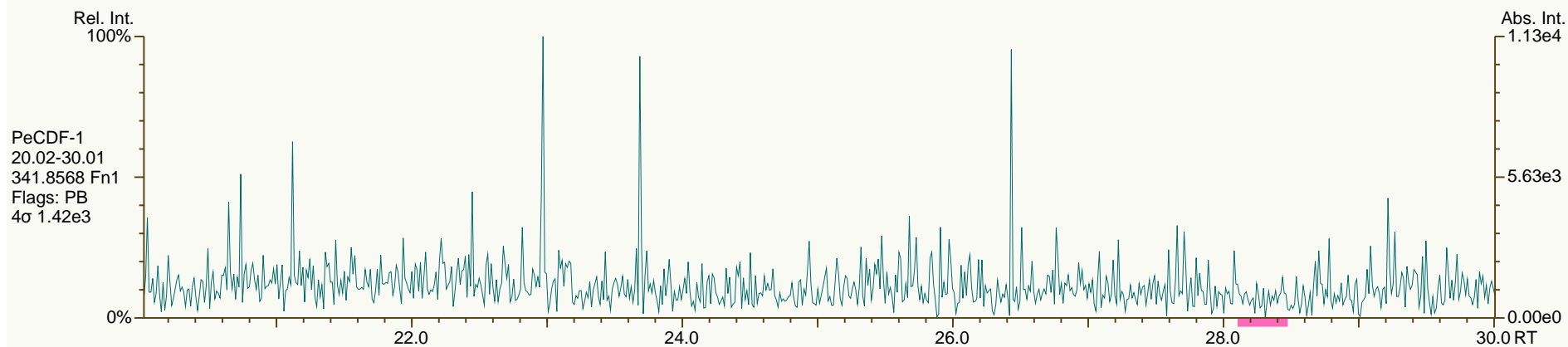
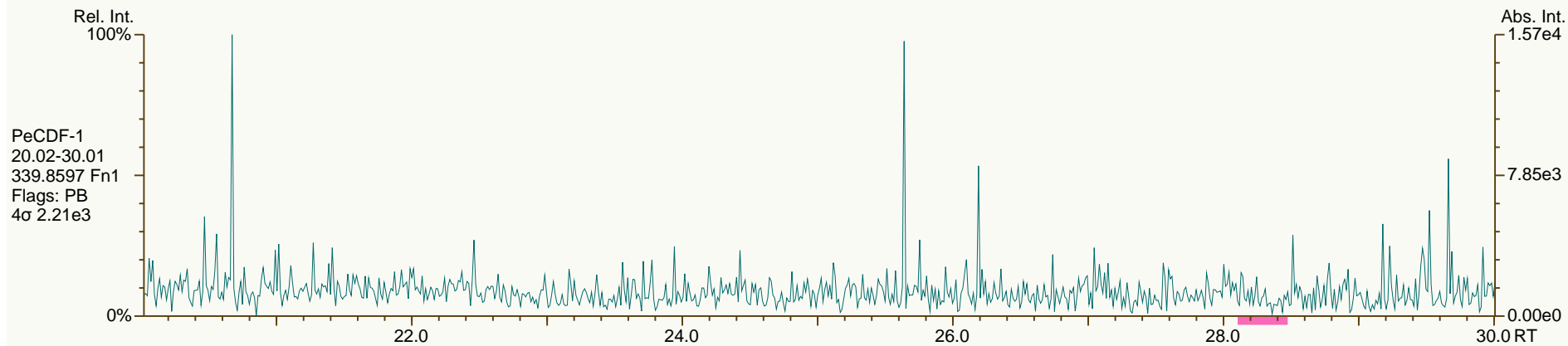
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SGS-AP ID: SBS_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

Acq: 04-OCT-2013 15:17:50
User: MDC Datafile: 131004P1-03



SGS-AP ID: SBS_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

Acq: 04-OCT-2013 15:17:50
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SGS-AP ID: SBS_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

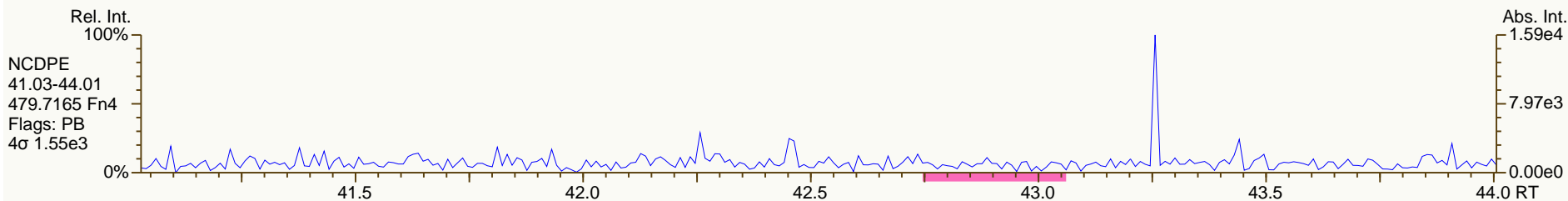
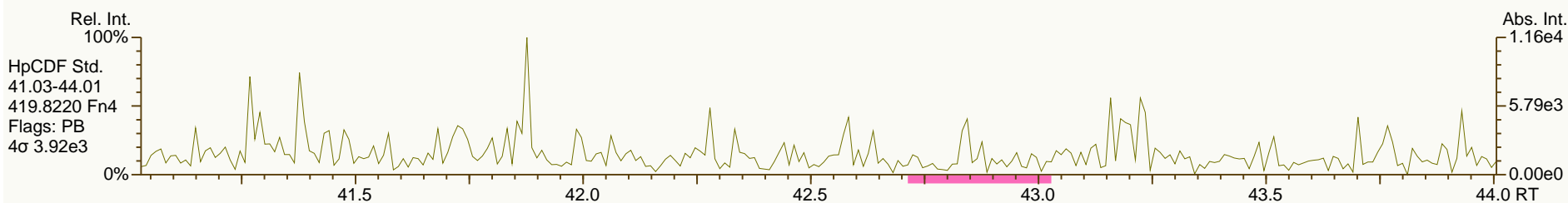
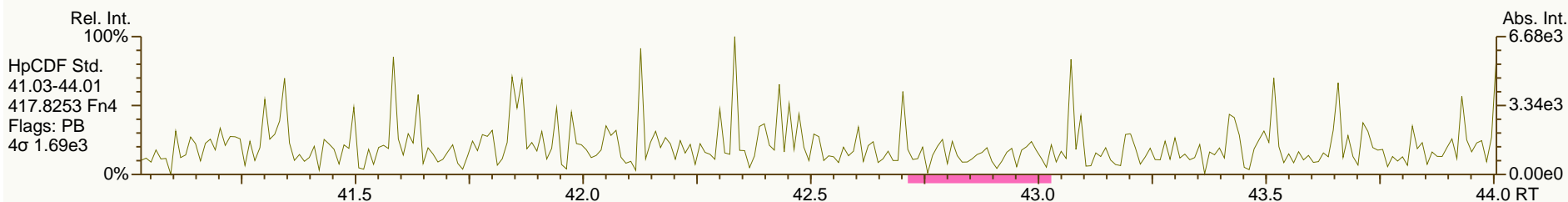
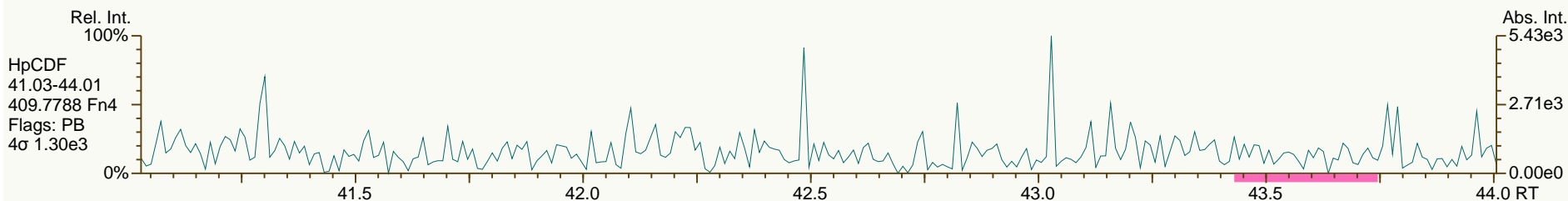
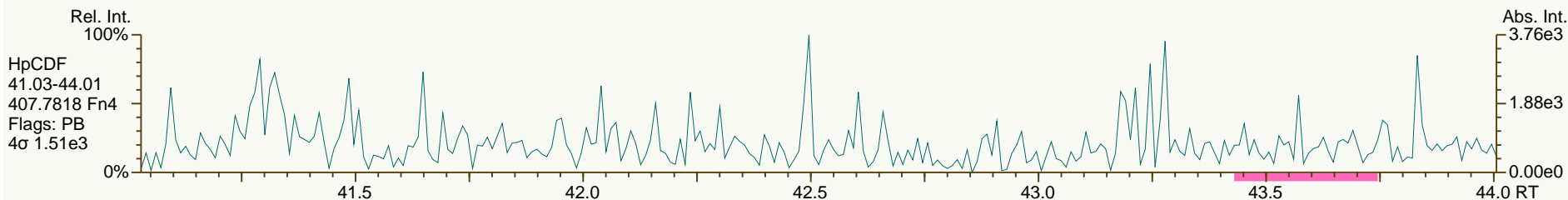
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SGS-AP ID: SBS_131004_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

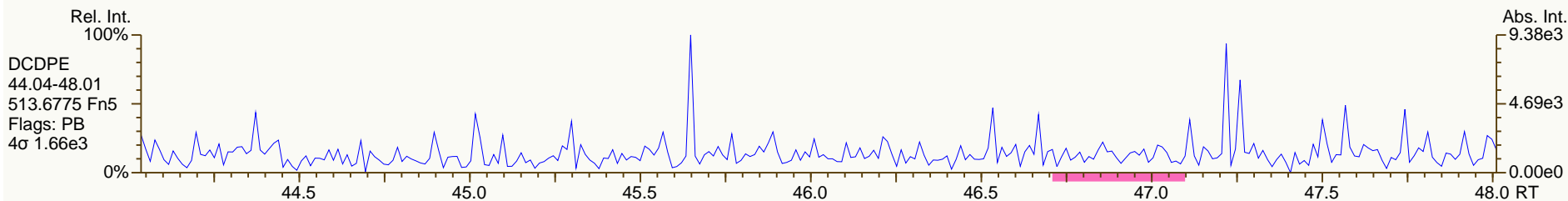
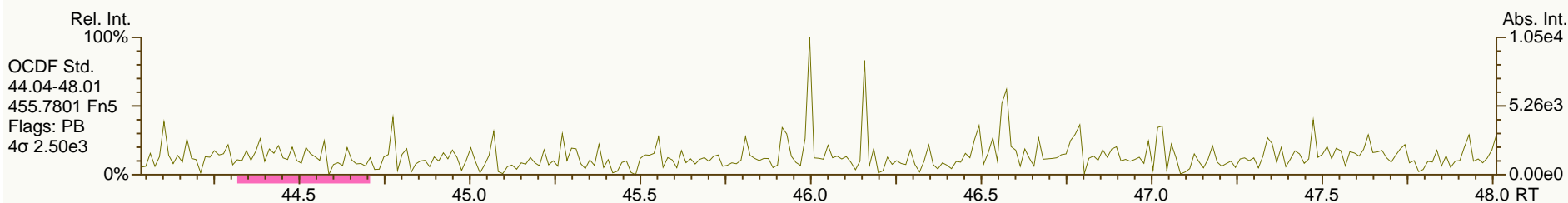
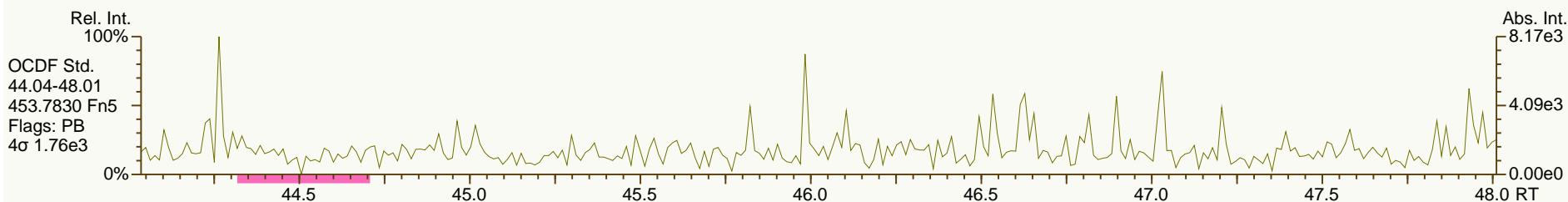
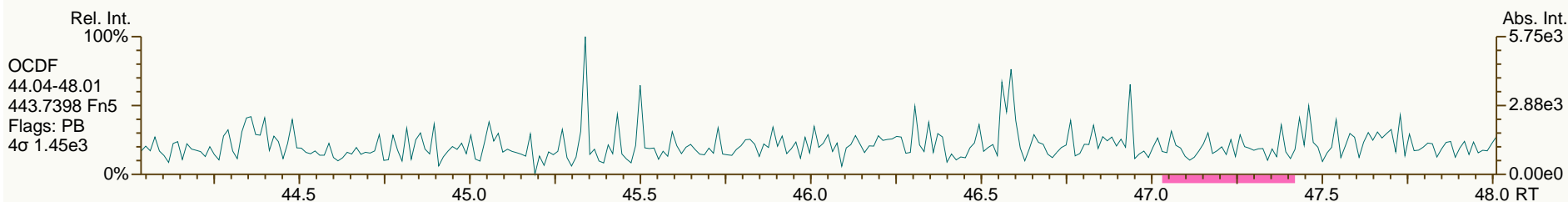
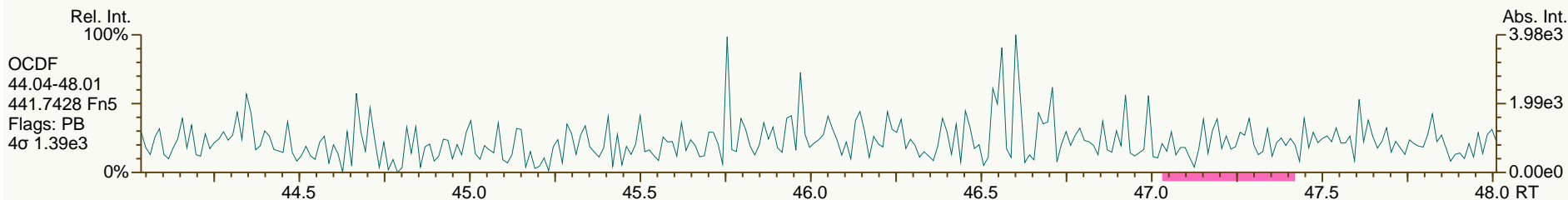
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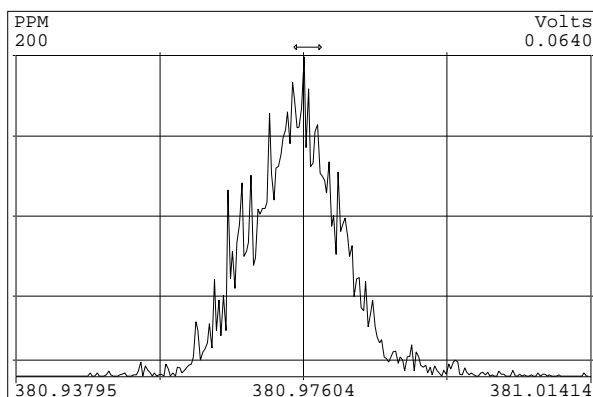
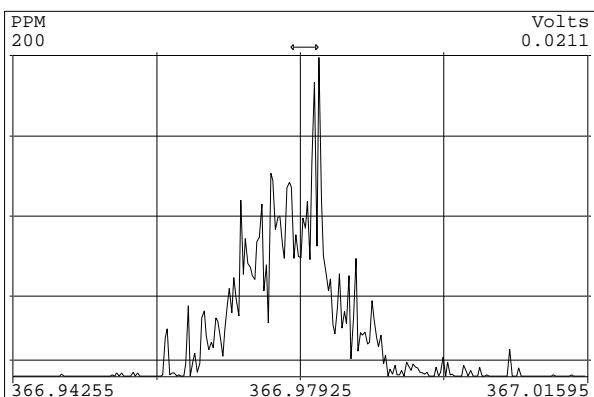
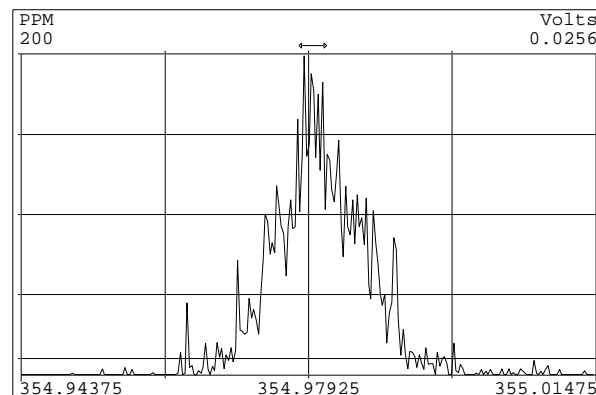
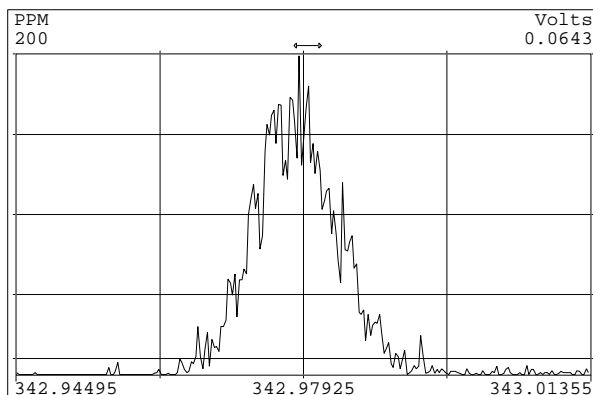
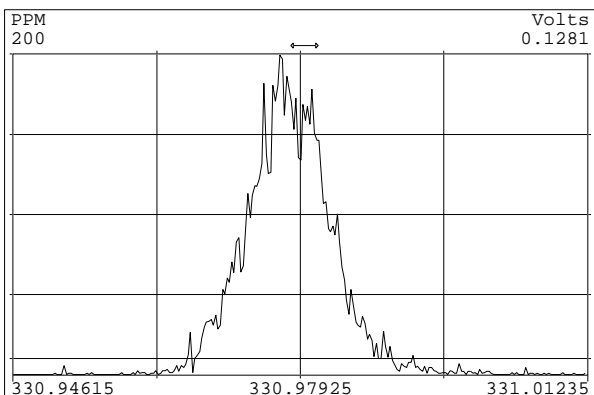
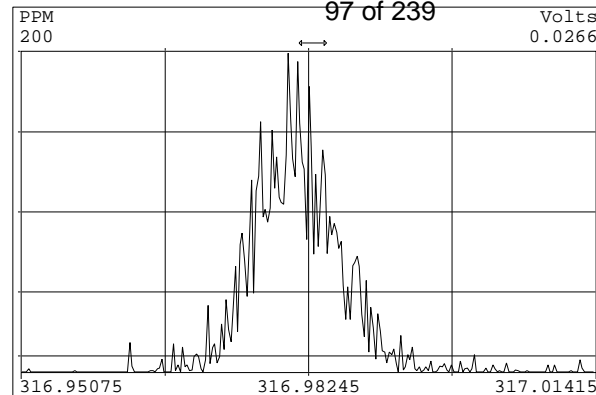
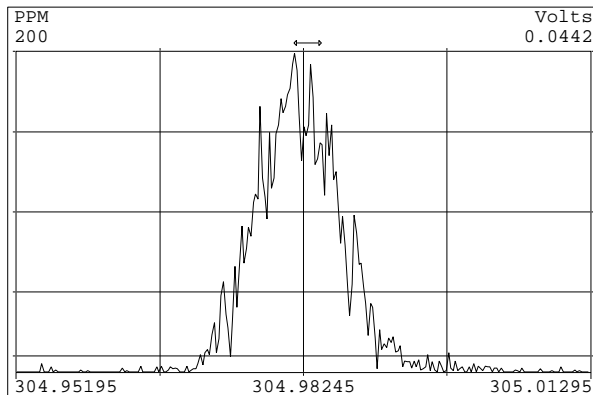
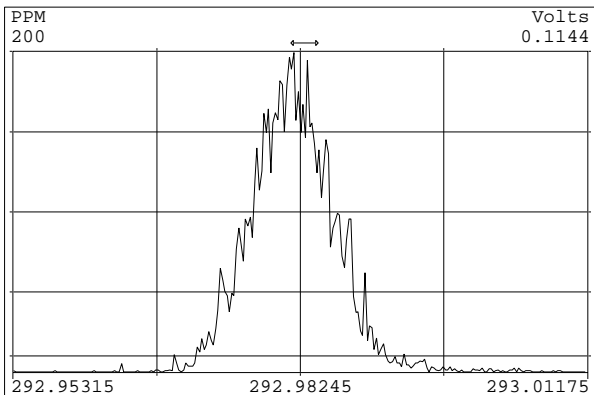


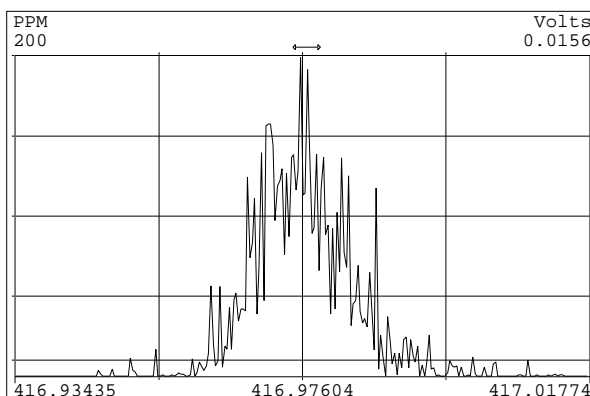
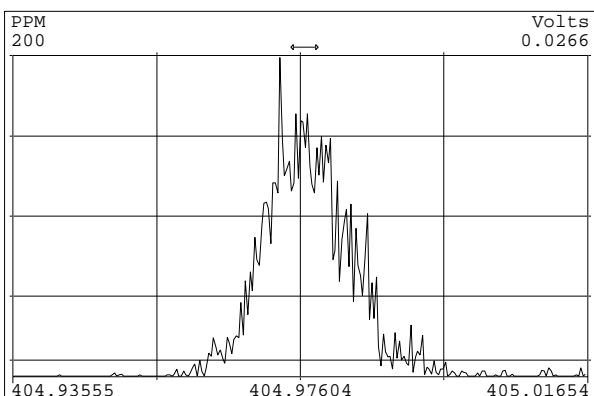
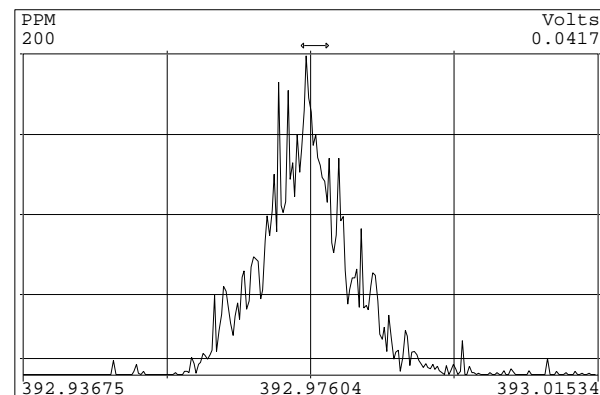
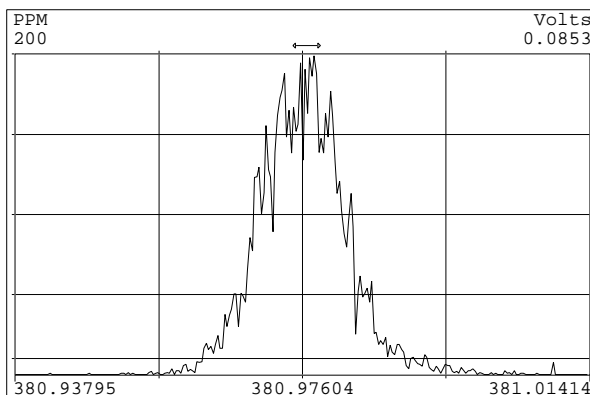
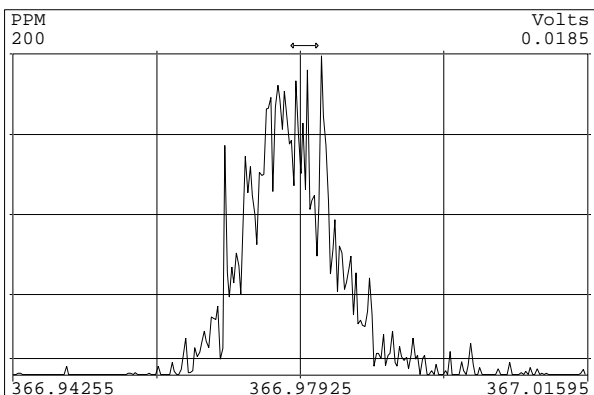
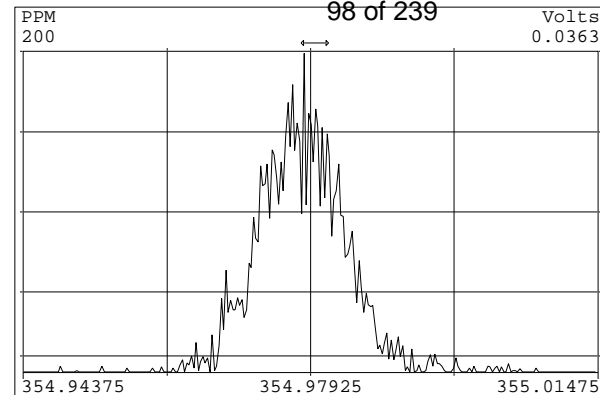
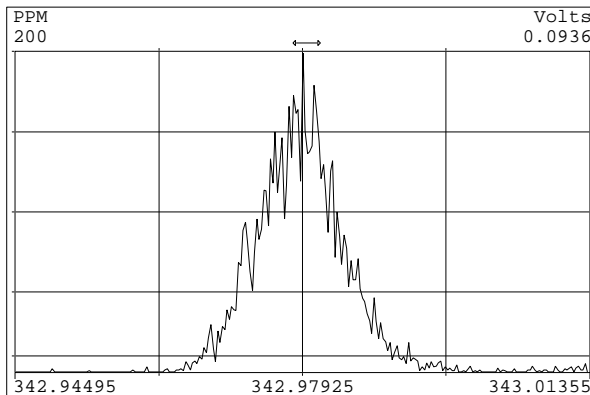
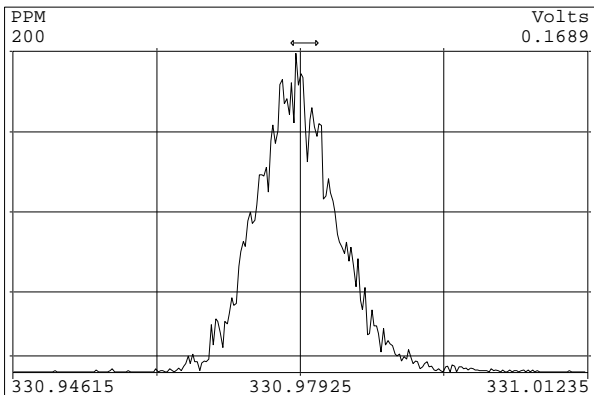
SGS-AP ID: SBS_131004_DF_PA
Instr: AutoSpec-Ultima MM1

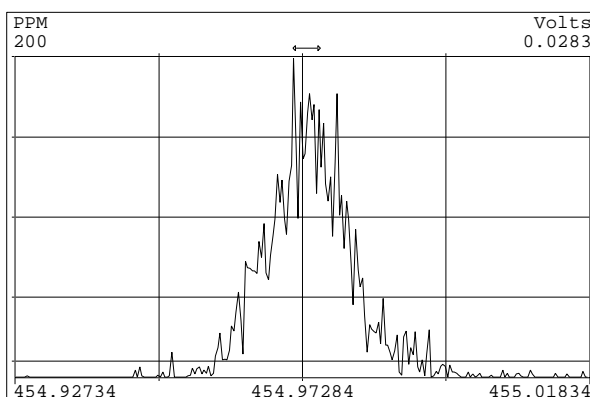
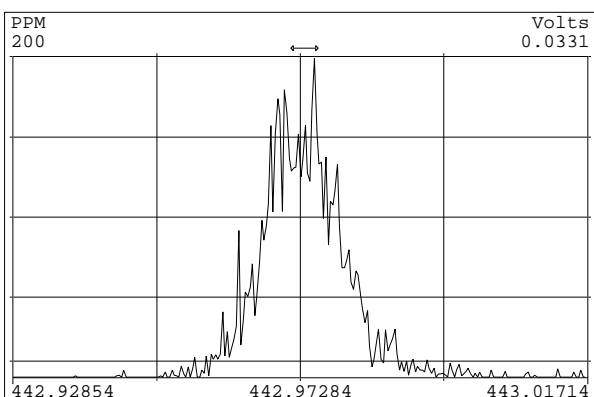
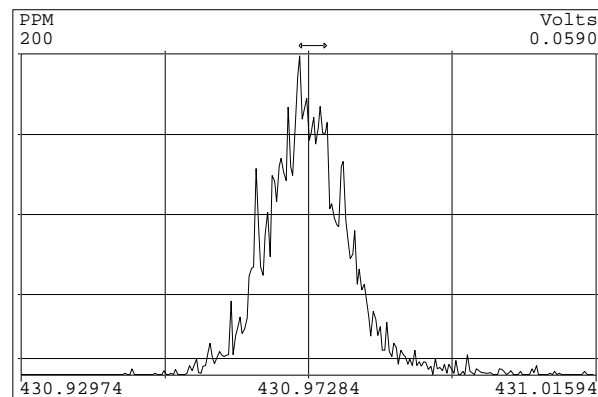
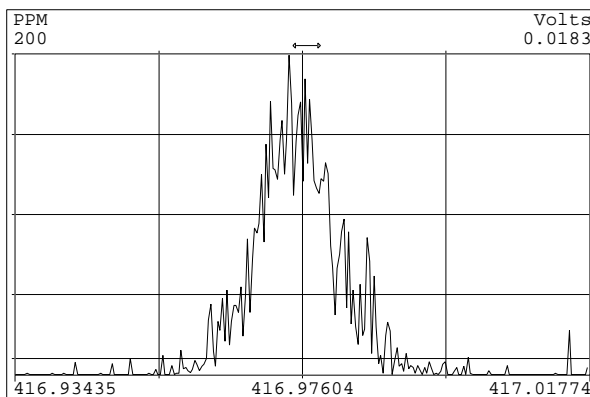
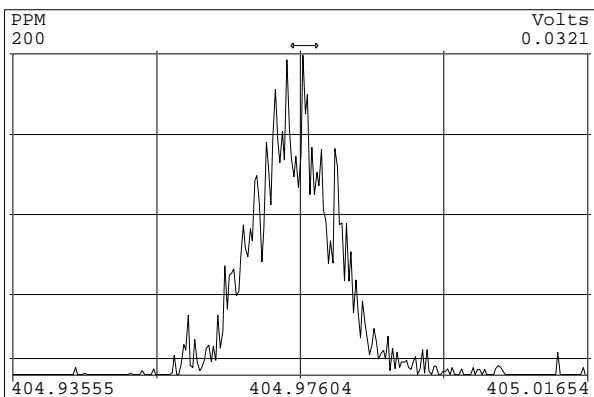
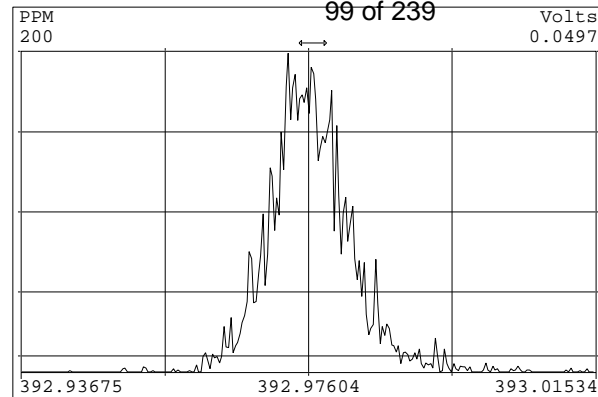
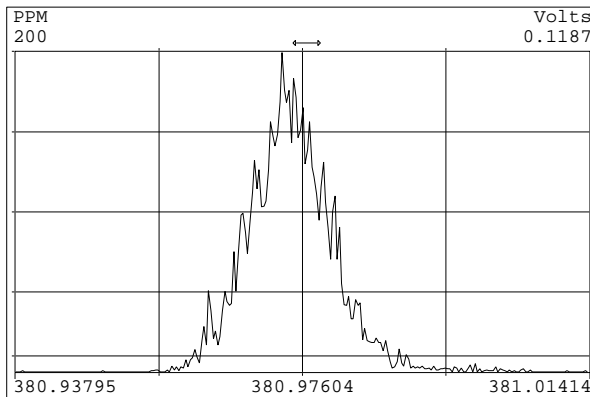
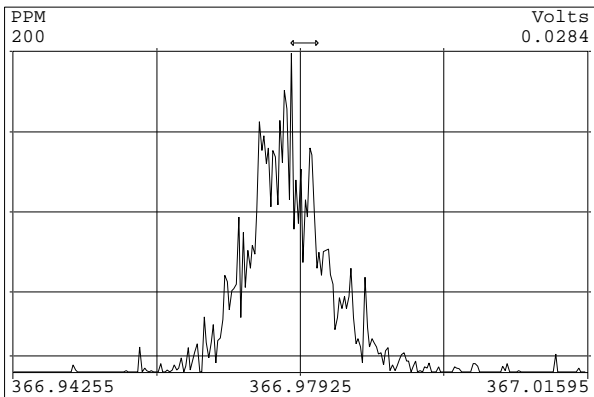
Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

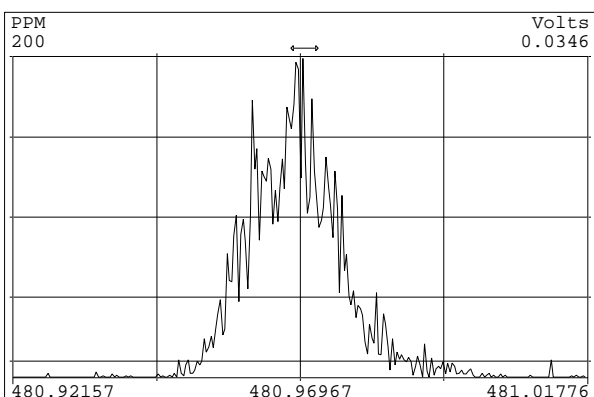
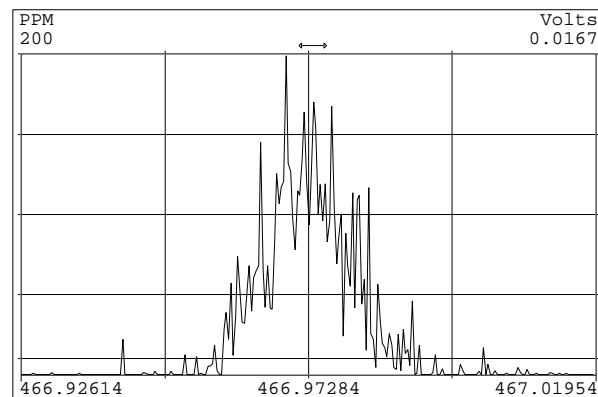
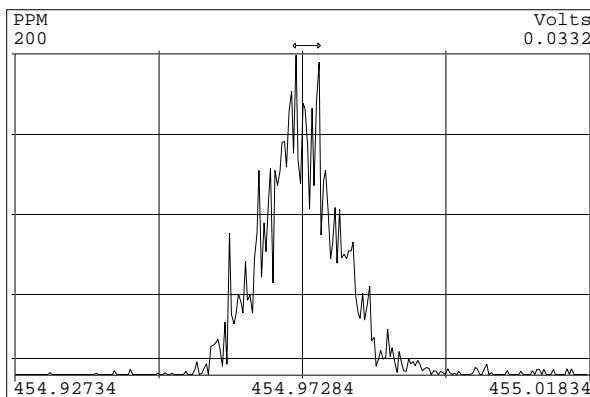
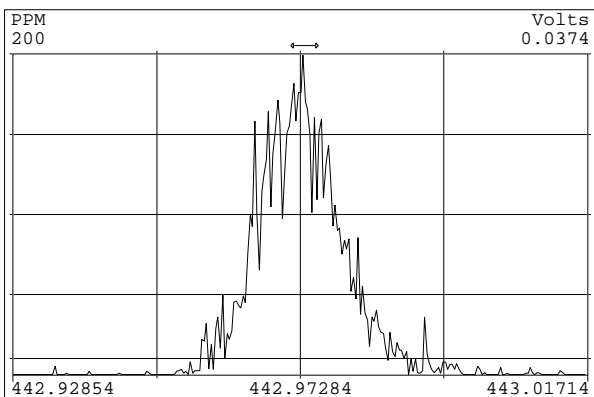
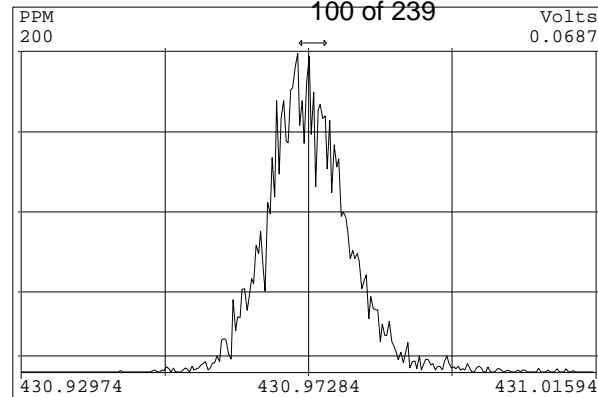
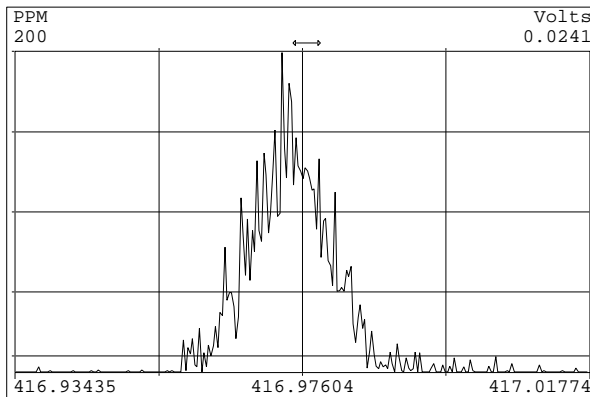
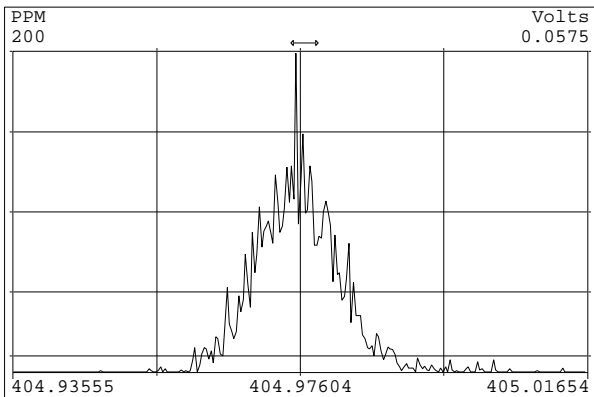
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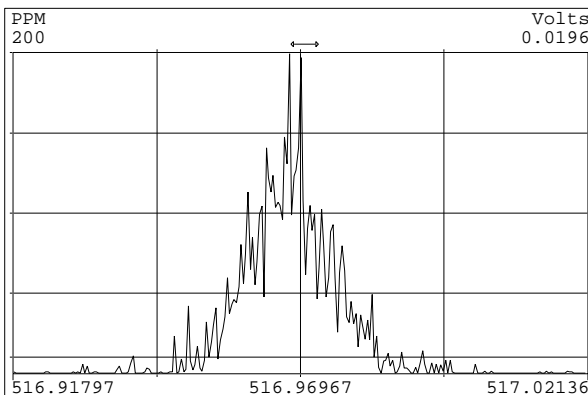
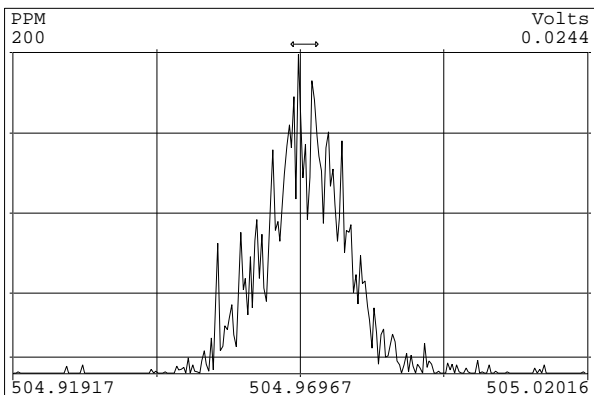
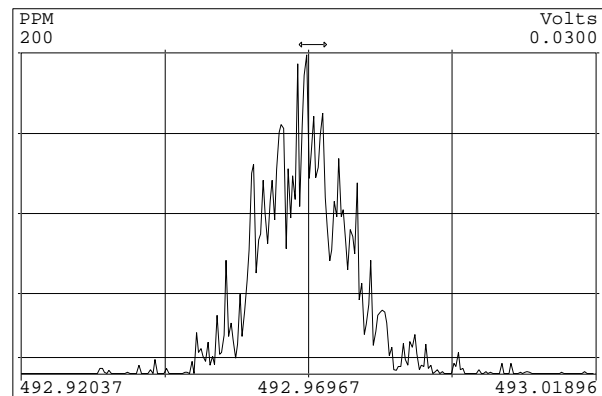
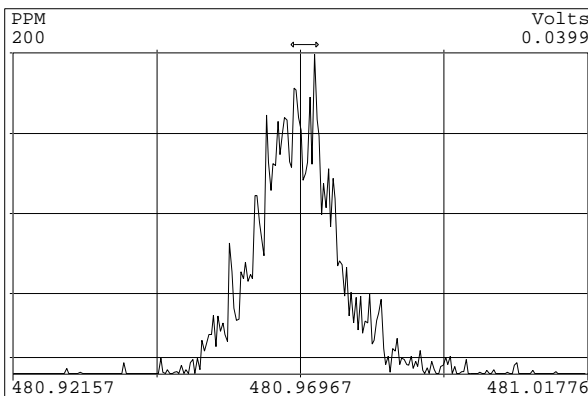
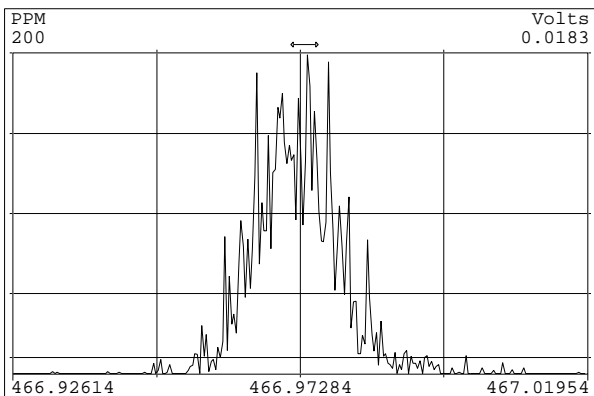
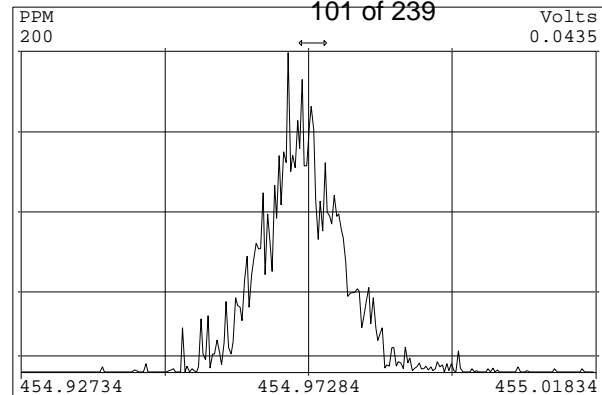
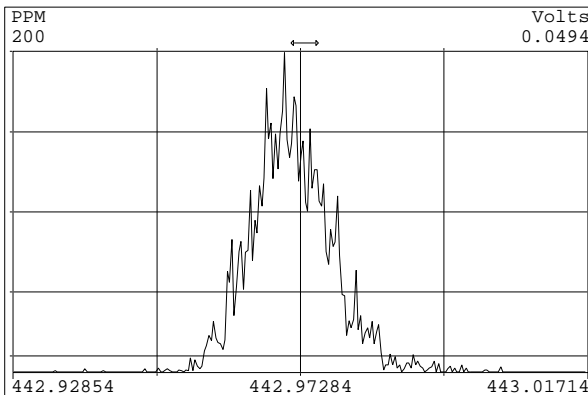
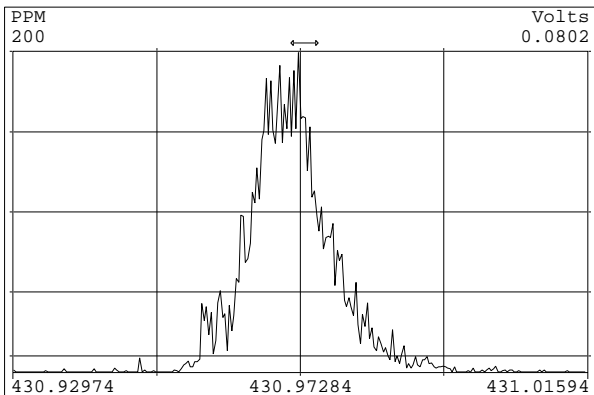


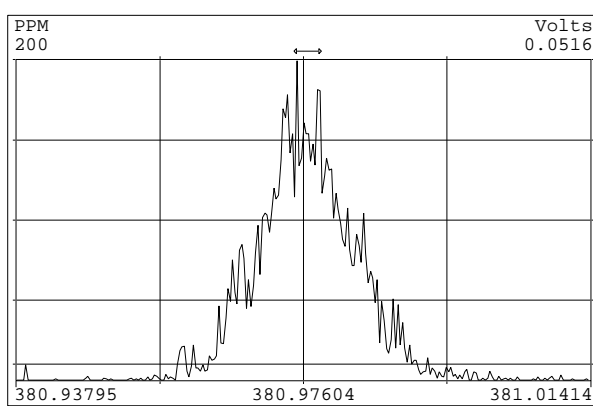
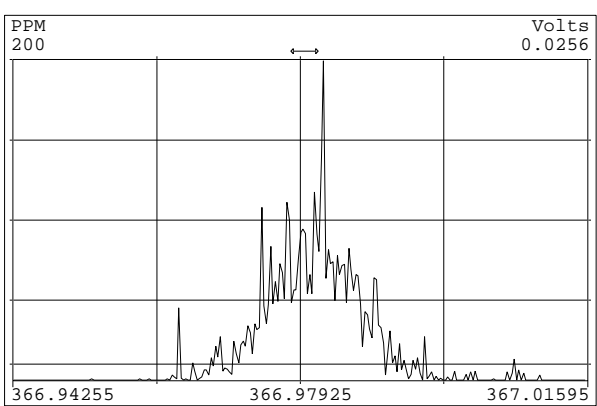
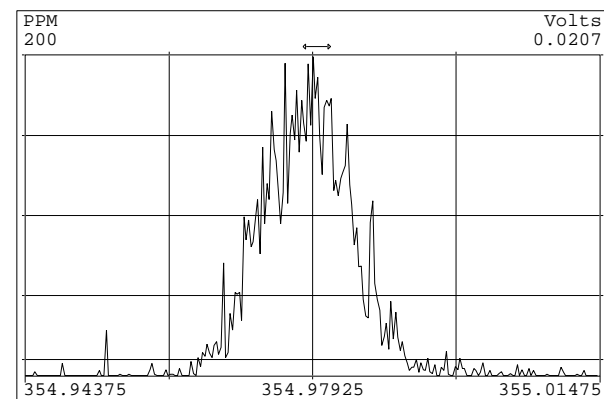
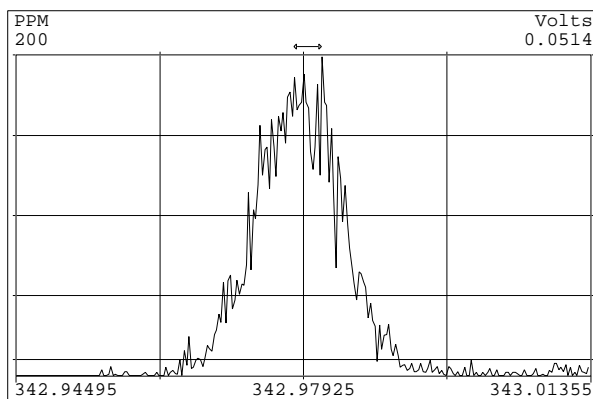
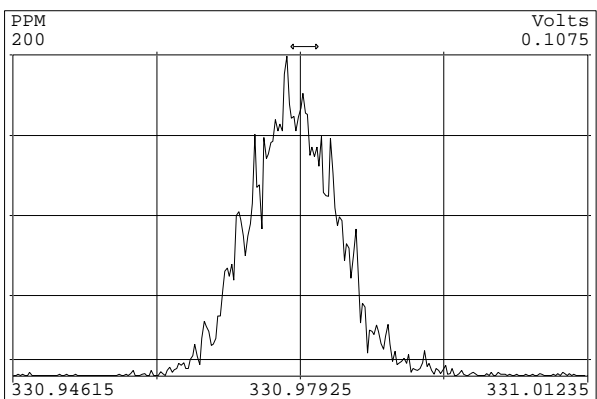
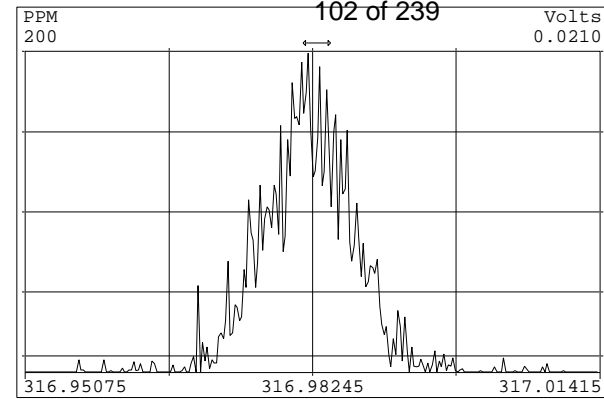
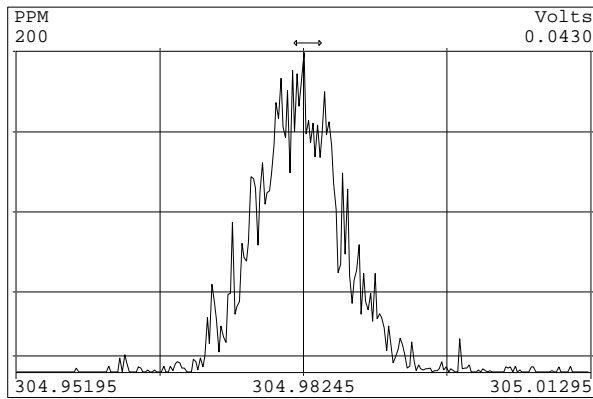
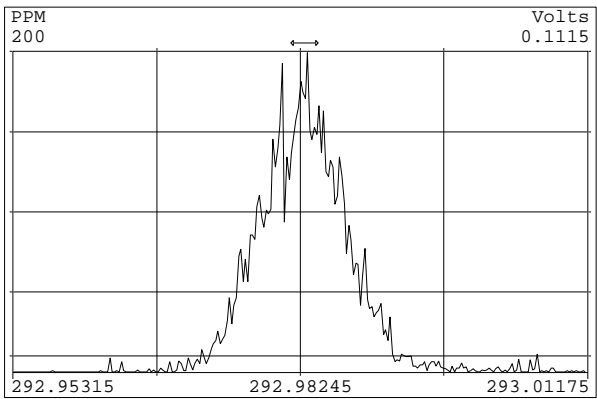


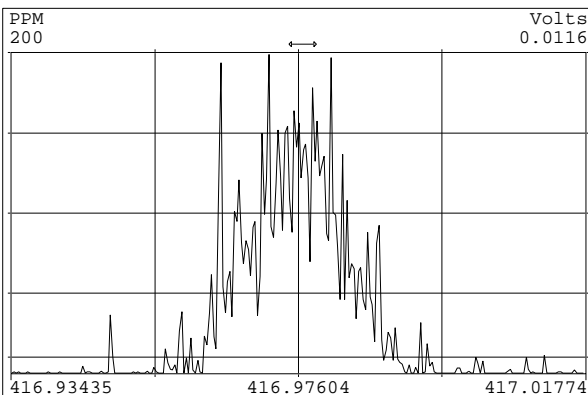
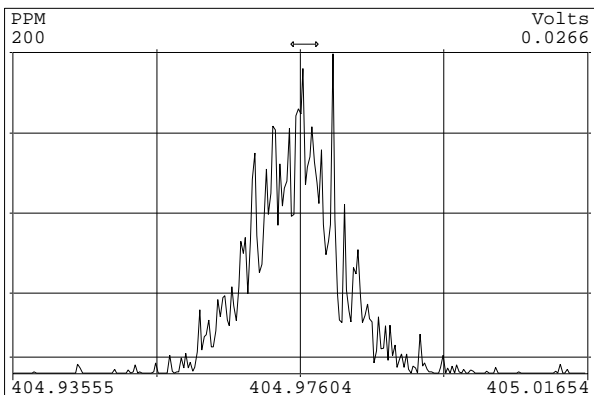
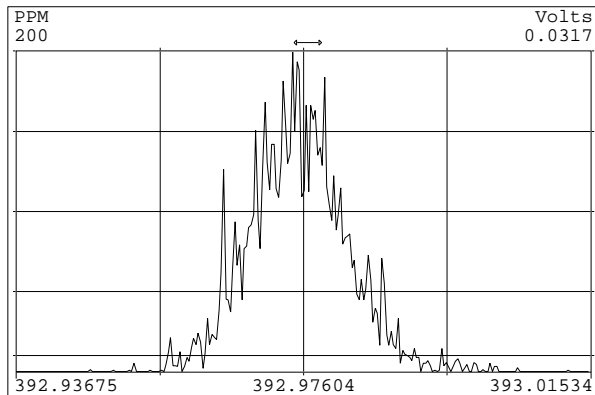
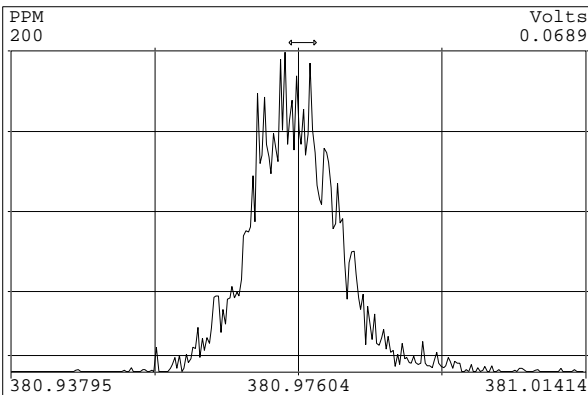
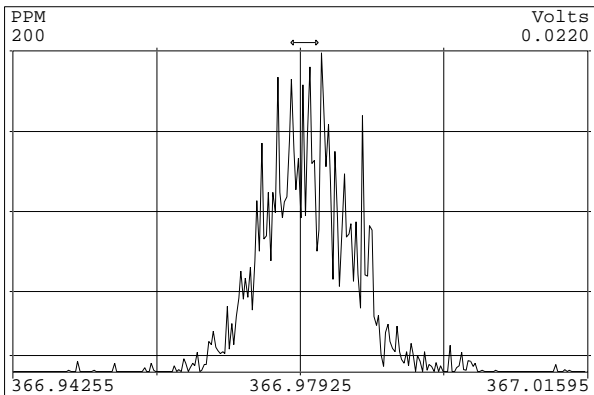
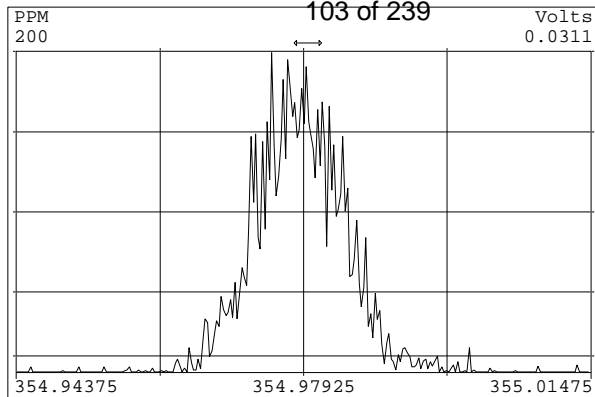
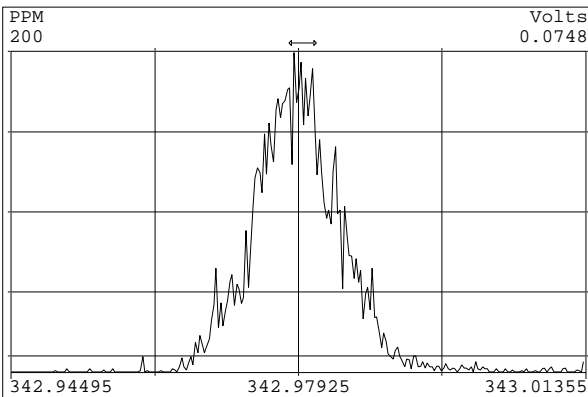
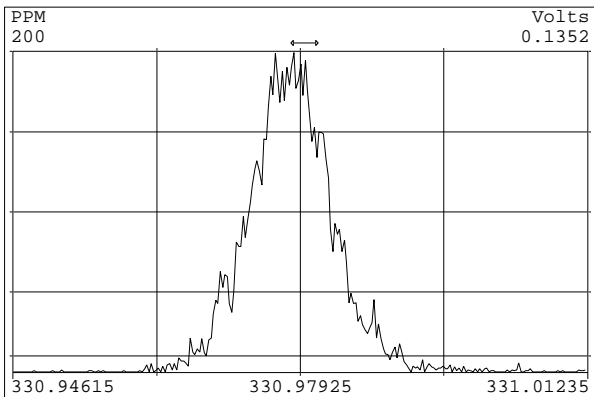


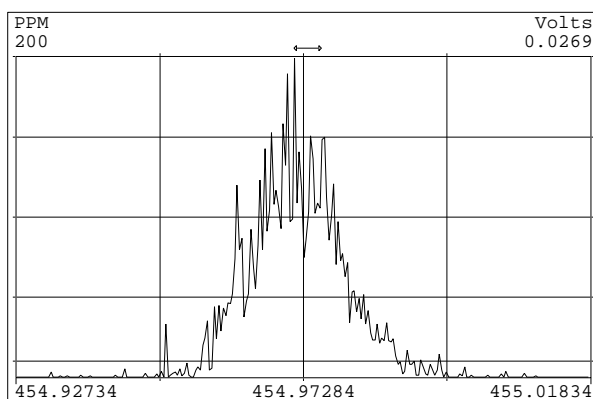
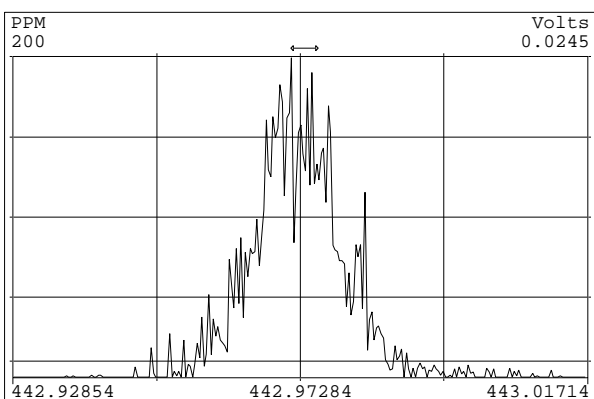
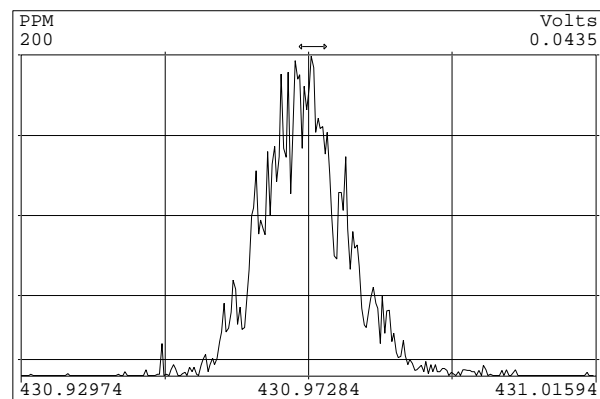
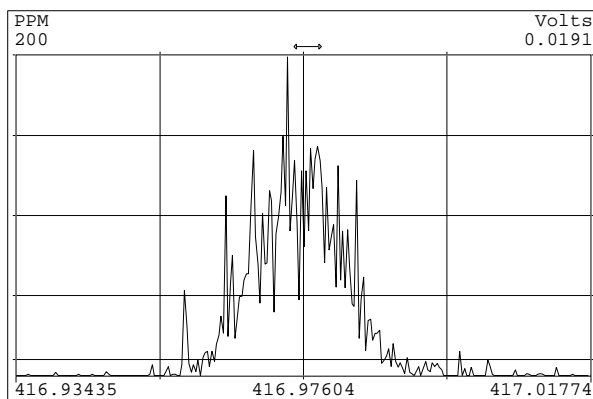
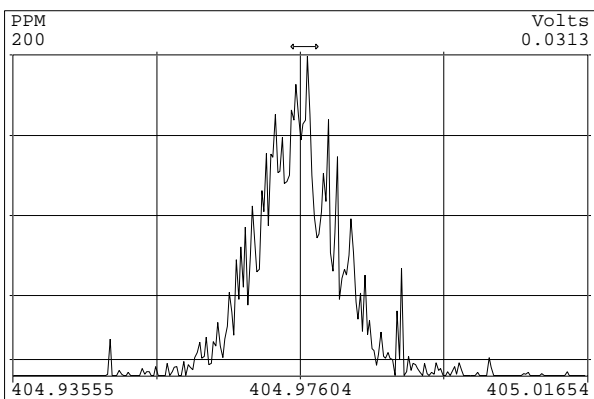
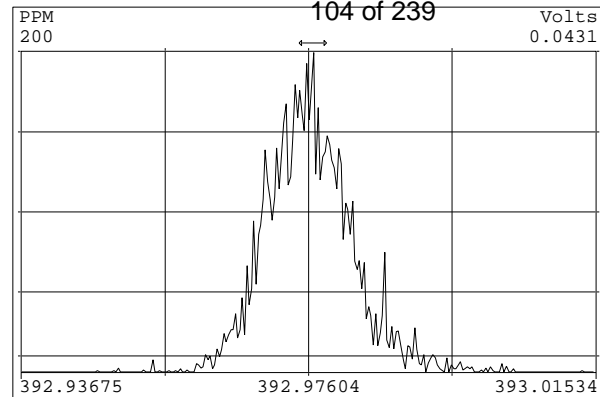
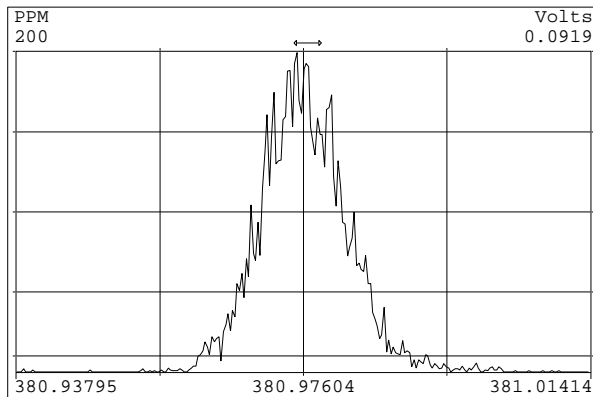
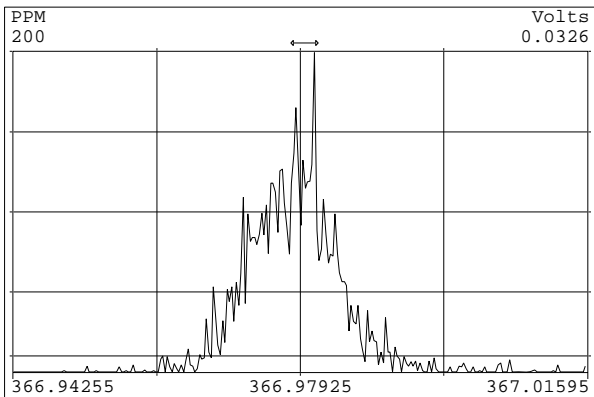


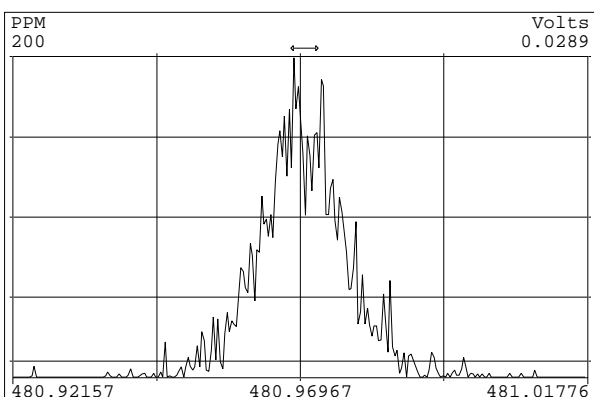
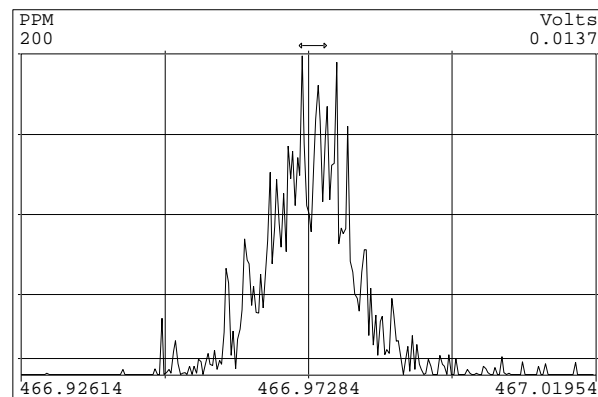
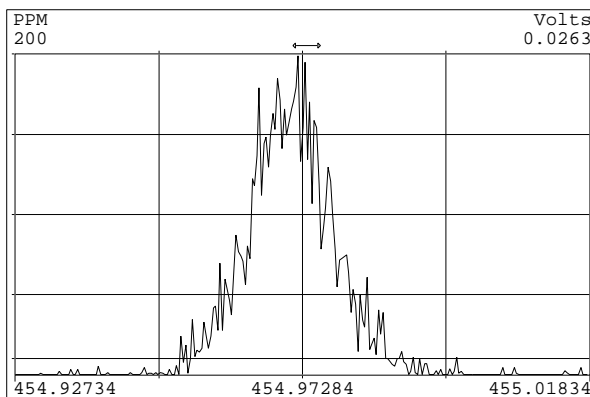
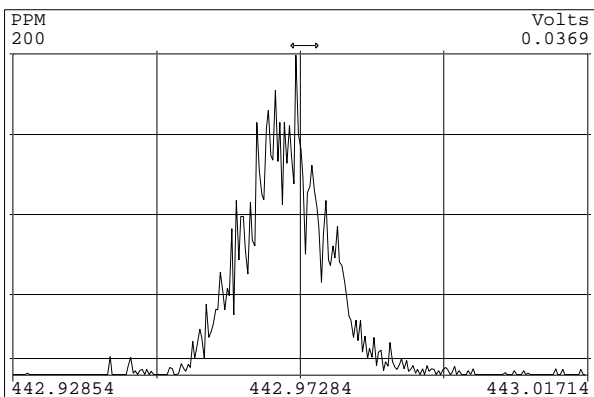
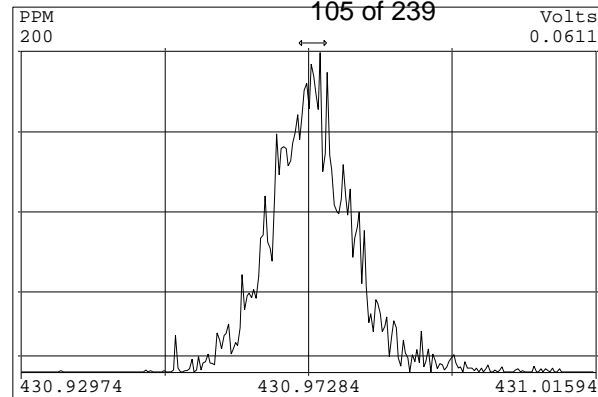
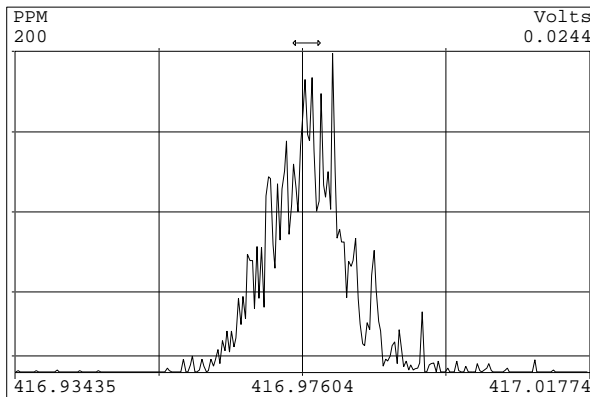
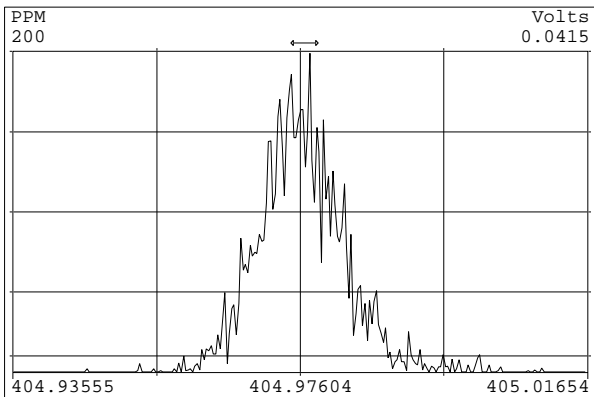


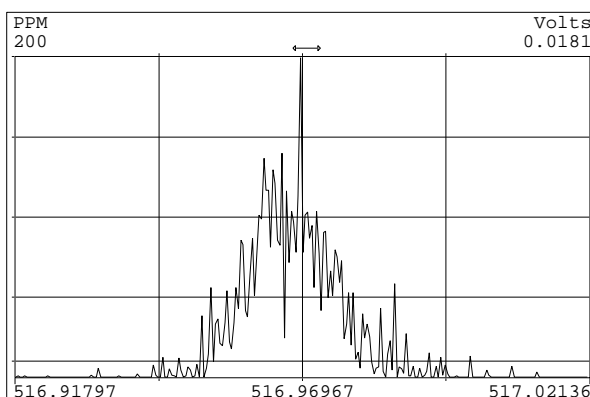
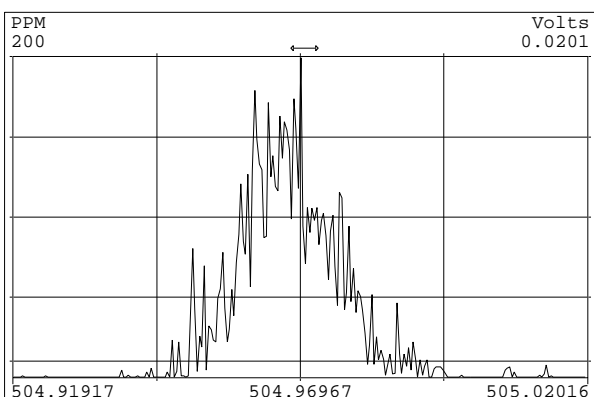
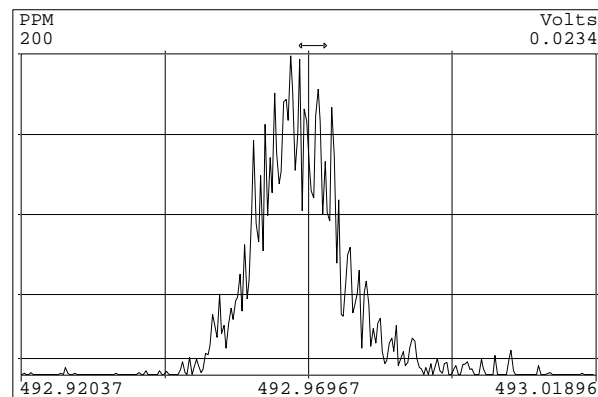
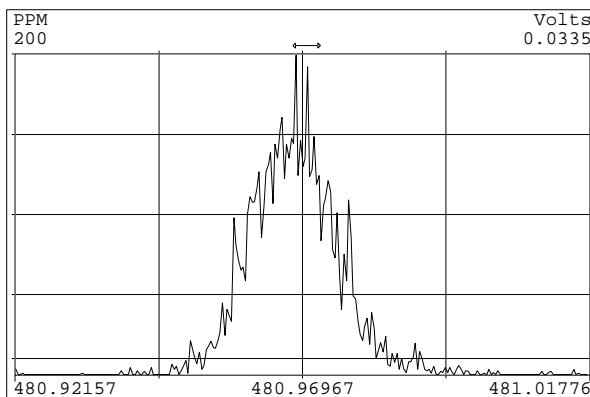
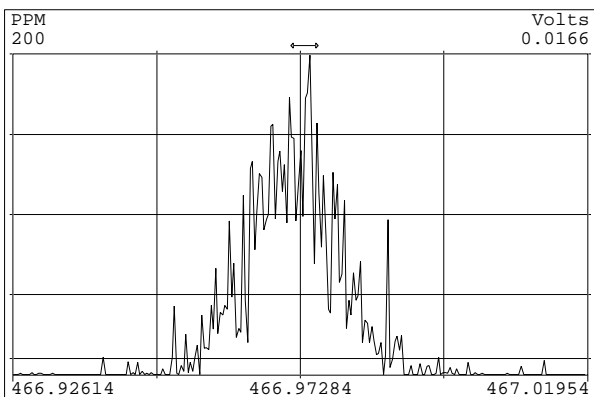
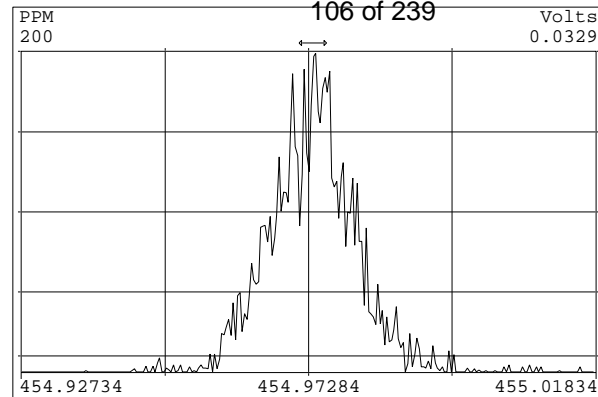
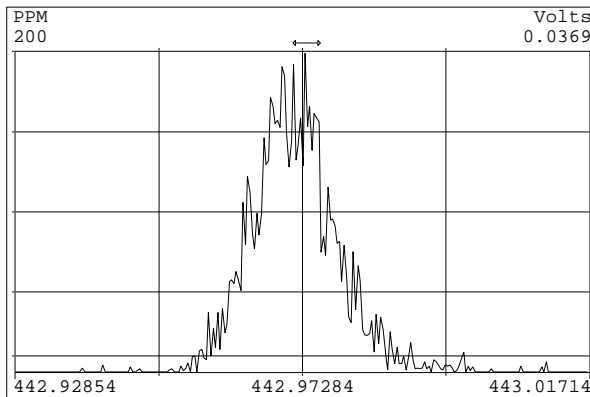
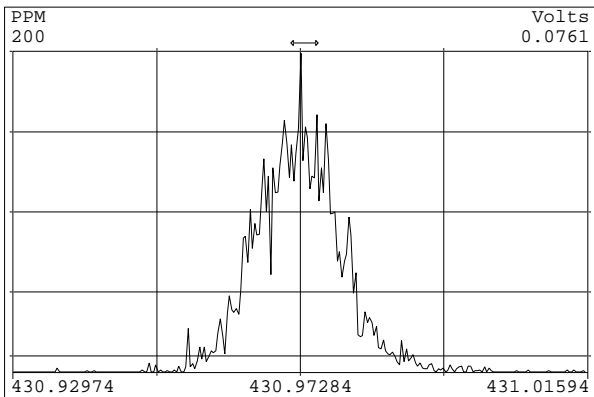












Dioxin/Furan ICAL Summary			SGS Analytical Perspectives						Processed: 19 Sep 2013 09:02	
ICAL: MM1_DF_11012012A_18SEPT2013										
Data Acquired: 18-Sep-2013										
Name	Mean	% RSD	130918P1-02	130918P1-03	130918P1-04	130918P1-05	130918P1-06	130918P1-07	130918P1-08	
			0.25 CS0	0.5 CS1	2.0 CS2	10 CS3	40 CS4	200 CS5	500 CS6	
2378-TCDD	1.18	6.2%	1.02	1.19	1.19	1.22	1.20	1.25	1.20	
12378-PeCDD	1.07	4.1%	1.03	1.02	1.04	1.07	1.10	1.13	1.12	
123478-HxCDD	1.19	4.7%	1.16	1.12	1.12	1.20	1.23	1.25	1.25	
123678-HxCDD	1.19	4.4%	1.13	1.15	1.20	1.17	1.21	1.18	1.29	
123789-HxCDD	1.12	2.4%	1.11	1.07	1.10	1.11	1.13	1.15	1.13	
1234678-HpCDD	1.08	4.2%	1.03	1.03	1.06	1.10	1.11	1.13	1.13	
OCDD	1.14	4.3%	1.08	1.08	1.12	1.16	1.18	1.18	1.20	
2378-TCDF	1.10	4.1%	1.01	1.11	1.12	1.14	1.14	1.09	1.07	
12378-PeCDF	1.17	5.1%	1.06	1.18	1.13	1.17	1.18	1.18	1.26	
23478-PeCDF	1.14	4.0%	1.12	1.15	1.09	1.11	1.14	1.17	1.23	
123478-HxCDF	1.34	3.1%	1.28	1.32	1.30	1.34	1.36	1.37	1.40	
123678-HxCDF	1.23	4.0%	1.17	1.17	1.21	1.23	1.26	1.29	1.29	
234678-HxCDF	1.26	4.6%	1.15	1.24	1.23	1.28	1.30	1.29	1.33	
123789-HxCDF	1.23	5.0%	1.14	1.17	1.20	1.26	1.27	1.29	1.29	
1234678-HpCDF	1.42	5.4%	1.30	1.40	1.35	1.42	1.47	1.49	1.52	
1234789-HpCDF	1.39	4.9%	1.31	1.30	1.35	1.42	1.41	1.45	1.48	
OCDF	1.11	4.0%	1.06	1.06	1.06	1.12	1.14	1.15	1.16	
ES 2378-TCDD	1.02	2.8%	1.02	1.01	1.00	0.99	1.06	1.03	1.06	
ES 12378-PeCDD	0.92	7.8%	0.93	0.86	0.85	0.85	0.94	0.94	1.05	
ES 123478-HxCDD	1.02	6.1%	0.97	0.99	0.99	0.99	1.00	1.08	1.14	
ES 123678-HxCDD	1.01	7.5%	0.96	0.95	0.93	1.00	0.98	1.10	1.13	
ES 123789-HxCDD	1.14	8.0%	1.09	1.09	1.05	1.11	1.13	1.21	1.31	
ES 1234678-HpCDD	1.02	6.0%	1.00	0.98	0.98	0.97	1.02	1.07	1.14	
ES OCDD	0.72	8.9%	0.69	0.68	0.66	0.68	0.72	0.79	0.83	
ES 2378-TCDF	1.01	2.7%	1.00	1.00	0.97	0.99	1.02	1.02	1.05	
ES 12378-PeCDF	0.89	7.5%	0.89	0.83	0.82	0.82	0.91	0.94	0.99	
ES 23478-PeCDF	0.91	6.1%	0.89	0.84	0.86	0.86	0.94	0.95	0.99	
ES 123478-HxCDF	1.53	5.7%	1.45	1.47	1.46	1.52	1.51	1.63	1.67	
ES 123678-HxCDF	1.73	6.6%	1.63	1.65	1.64	1.70	1.68	1.86	1.92	
ES 234678-HxCDF	1.61	5.3%	1.56	1.53	1.55	1.60	1.58	1.72	1.75	
ES 123789-HxCDF	1.39	6.9%	1.36	1.31	1.30	1.33	1.39	1.49	1.55	
ES 1234678-HpCDF	1.20	7.4%	1.14	1.12	1.15	1.16	1.20	1.26	1.38	
ES 1234789-HpCDF	1.07	6.7%	1.02	1.03	1.01	1.01	1.10	1.13	1.19	
ES OCDF	1.04	10.3%	0.99	0.96	0.95	0.96	1.07	1.16	1.22	

Dioxin/Furan ICAL Summary			SGS Analytical Perspectives						Processed: 19 Sep 2013 09:02	
ICAL: MM1_DF_11012012A_18SEPT2013										
Data Acquired: 18-Jun-2009										
Name	Mean	% RSD	130918P1-02	130918P1-03	130918P1-04	130918P1-05	130918P1-06	130918P1-07	130918P1-08	
			0.25 CS0	0.5 CS1	2.0 CS2	10 CS3	40 CS4	200 CS5	500 CS6	
CS 37C1-2378-TCDD	1.13	5.9%	-	1.08	1.07	1.10	1.19	1.21	-	
CS 12347-PeCDD	0.88	3.9%	0.93	0.88	0.84	0.85	0.92	0.86	0.85	
CS 12346-PeCDF	0.90	2.6%	0.92	0.91	0.89	0.91	0.93	0.88	0.86	
CS 123469-HxCDF	1.40	2.4%	1.41	1.41	1.38	1.46	1.39	1.39	1.35	
CS 1234689-HpCDF	1.09	2.1%	1.12	1.07	1.10	1.10	1.12	1.06	1.08	
SS 37C1-2378-TCDD	1.11	4.0%	-	1.07	1.07	1.11	1.13	1.18	-	
SS 12347-PeCDD	0.96	7.5%	1.00	1.02	0.99	0.99	0.98	0.92	0.81	
SS 12346-PeCDF	1.02	8.6%	1.03	1.10	1.09	1.10	1.02	0.94	0.87	
SS 123469-HxCDF	0.81	7.6%	0.87	0.85	0.84	0.86	0.83	0.75	0.71	
SS 1234689-HpCDF	0.91	7.7%	0.98	0.95	0.96	0.95	0.93	0.85	0.79	
AS 1368-TCDD	1.01	1.9%	0.99	1.01	1.03	1.02	1.01	1.01	0.98	
AS 1368-TCDF	1.22	1.0%	1.21	1.22	1.21	1.24	1.22	1.23	1.22	
OCDD-a	0.07	4.5%	-	-	0.07	0.06	0.07	0.07	0.07	
OCDF-a	0.06	5.3%	-	-	0.06	0.06	0.06	0.07	0.07	
Totals										
Total TCDD	1.18	6.2%	1.02	1.19	1.19	1.22	1.20	1.25	1.20	
Total PeCDD	1.07	4.1%	1.03	1.02	1.04	1.07	1.10	1.13	1.12	
Total HxCDD	1.17	3.3%	1.14	1.11	1.14	1.16	1.19	1.20	1.22	
Total HpCDD	1.08	4.2%	1.03	1.03	1.06	1.10	1.11	1.13	1.13	
Total TCDF	1.10	4.1%	1.01	1.11	1.12	1.14	1.14	1.09	1.07	
Total PeCDF	1.16	4.3%	1.09	1.17	1.11	1.14	1.16	1.17	1.24	
Total HxCDF	1.27	4.1%	1.19	1.23	1.23	1.28	1.30	1.31	1.33	
Total HpCDF	1.40	5.0%	1.30	1.35	1.35	1.42	1.44	1.47	1.50	
FS 1278-TCDD	1.18	1.7%	1.20	1.18	1.17	1.20	1.17	1.18	1.14	
FS 12478-PeCDD	1.06	5.5%	1.09	1.12	1.12	1.09	1.05	1.01	0.96	
FS 123468-HxCDD	1.26	7.6%	1.35	1.29	1.31	1.34	1.26	1.18	1.08	
FS 1234679-HpCDD	1.12	7.4%	1.17	1.17	1.18	1.21	1.13	1.03	0.99	
TS 1378-TCDD	1.11	2.5%	1.12	1.12	1.15	1.13	1.09	1.10	1.06	

8290B ICALs

Ax	MM1-DF-010606- 25JAN06	MM1-DF-010606- 16MAR06	MM1_SIL4181_20OCT06	MM1_DF_091806B_06NO V06	MM1_DF_091806B_14MA R07	MM1_DF_091806B_31MA R07	MM1_DF_091806B_16AP R07	MM1_DF_07012007A_06 Aug07
2,3,7,8-TCDD	1	1.06	1.12	1.13	1.03	1.18	1.1	1.13
1,2,3,7,8-PeCDD	0.88	0.93	1.1	0.94	0.9	0.93	0.97	0.99
1,2,3,4,7,8-HxCDD	0.92	1	1.2	1.1	0.98	1.1	1.13	1.12
1,2,3,6,7,8-HxCDD	0.93	1.03	1.06	1.03	0.94	1.03	1.04	1
1,2,3,7,8,9-HxCDD	0.91	0.99	1.07	1	0.9	1.03	1	1.08
1,2,3,4,6,7,8-HpCDD	0.83	0.9	1.08	0.87	0.75	0.94	0.91	0.98
OCDD	0.98	1.04	1.1	0.9	0.81	0.93	0.94	1.1
2,3,7,8-TCDF	0.86	0.99	1.09	1.05	0.97	1.07	1.03	1.04
1,2,3,7,8-PeCDF	0.79	0.89	1.18	0.9	0.83	0.97	0.96	0.96
2,3,4,7,8-PeCDF	0.94	1.08	1.15	0.94	0.87	1	0.99	1
1,2,3,4,7,8-HxCDF	1.02	1.17	1.30	1.03	0.96	1.11	1.13	1.22
1,2,3,6,7,8-HxCDF	0.99	1.12	1.27	1.02	0.94	1.12	1.12	1.17
2,3,4,6,7,8-HxCDF	0.95	1.1	1.24	0.99	0.9	1.07	1.06	1.14
1,2,3,7,8,9-HxCDF	1.03	1.19	1.24	1.03	0.94	1.12	1.12	1.14
1,2,3,4,6,7,8-HpCDF	1.17	1.32	1.46	1.15	0.99	1.18	1.2	1.39
1,2,3,4,7,8,9-HpCDF	1.22	1.37	1.51	1.16	1	1.21	1.2	1.37
OCDF	0.86	0.99	1.07	0.78	0.72	0.86	0.83	0.95
ES								
2,3,7,8-TCDD	1.03	1.03	1.05	1.11	1.1	1.12	1.09	1.05
1,2,3,7,8-PeCDD	0.77	0.83	0.95	1.05	1.02	1	1.02	0.92
1,2,3,4,7,8-HxCDD	1.06	1.09	1.19	1.06	1.04	1.1	1.06	1.09
1,2,3,6,7,8-HxCDD	1.22	1.2	1.3	1.16	1.19	1.16	1.2	1.13
1,2,3,7,8,9-HxCDD	1.26	1.22	1.35	1.24	1.25	1.23	1.25	1.17
1,2,3,4,6,7,8-HpCDD	0.92	0.94	1.11	1.17	1.04	1.01	1.09	1.03
OCDD	0.7	0.68	0.86	0.98	0.8	0.72	0.83	0.68
2,3,7,8-TCDF	0.94	0.96	1.02	1.04	0.97	1.04	1	0.99
1,2,3,7,8-PeCDF	0.73	0.8	0.96	1.05	1.01	0.91	0.9	0.91
2,3,4,7,8-PeCDF	0.67	0.73	0.96	1.05	1.04	0.94	1	0.89
1,2,3,4,7,8-HxCDF	1.24	1.4	1.58	1.65	1.39	1.73	1.64	1.57
1,2,3,6,7,8-HxCDF	1.43	1.55	1.79	1.89	1.65	1.86	1.88	1.71
2,3,4,6,7,8-HxCDF	1.32	1.44	1.66	1.71	1.5	1.75	1.74	1.61
1,2,3,7,8,9-HxCDF	1.16	1.29	1.5	1.52	1.26	1.58	1.53	1.45
1,2,3,4,6,7,8-HpCDF	0.86	1.06	1.28	1.3	1.03	1.28	1.32	1.23
1,2,3,4,7,8,9-HpCDF	0.7	0.83	1.04	1.12	0.85	1.04	1.11	1.01
OCDF	0.85	0.95	1.2	1.39	1.05	1.08	1.26	1.06

8290B ICALs

Ax	MM1_DF_07012007A_26 DEC07	MM1_DF_07012007A_25 DEC08	MM1_DF_SIL4-18- 1_22NOV09	MM1_ical_122509	MM1_DF_03312010_250 CT10	MM1_DF_03312010A_25 DEC10	MM1_DF_7MAY11	MM1_DF_6JUN11
2,3,7,8-TCDD	1.14	1.08	1.11	1.23	1.27	1.21	1.12	1.22
1,2,3,7,8-PeCDD	1.03	1	1.04	1.14	1.16	1.06	0.99	1.03
1,2,3,4,7,8-HxCDD	1.16	1.08	1.19	1.19	1.22	1.17	1.21	1.16
1,2,3,6,7,8-HxCDD	1.04	0.94	1.06	1.09	1.09	1.04	1.05	1.02
1,2,3,7,8,9-HxCDD	1.1	0.99	1.08	1.08	1.12	1.09	1.08	1.06
1,2,3,4,6,7,8-HpCDD	1	0.97	1.05	1.04	1.09	1.03	0.98	1.02
OCDD	1.11	1.06	1.11	1.1	1.11	1.07	0.97	1.06
2,3,7,8-TCDF	1.15	1.05	1.06	1.13	1.24	1.14	1.00	1.09
1,2,3,7,8-PeCDF	1.05	0.98	1.14	1.16	1.10	1.01	0.95	1.00
2,3,4,7,8-PeCDF	1.09	1.01	1.1	1.13	1.20	1.10	1.02	1.08
1,2,3,4,7,8-HxCDF	1.28	1.22	1.26	1.26	1.34	1.27	1.18	1.25
1,2,3,6,7,8-HxCDF	1.2	1.15	1.24	1.25	1.33	1.24	1.15	1.22
2,3,4,6,7,8-HxCDF	1.18	1.13	1.19	1.18	1.27	1.18	1.09	1.16
1,2,3,7,8,9-HxCDF	1.19	1.12	1.23	1.2	1.32	1.22	1.13	1.20
1,2,3,4,6,7,8-HpCDF	1.42	1.37	1.41	1.39	1.44	1.39	1.29	1.44
1,2,3,4,7,8,9-HpCDF	1.4	1.32	1.46	1.42	1.52	1.43	1.34	1.48
OCDF	0.97	0.94	1.03	1.01	1.09	1.01	0.95	0.99
ES								
2,3,7,8-TCDD	1.02	0.99	1.04	1.04	1.04	1.05	1.01	1.02
1,2,3,7,8-PeCDD	0.96	0.83	0.91	0.96	1.11	0.98	0.78	0.94
1,2,3,4,7,8-HxCDD	1.12	1.08	1	1.01	1.02	1.05	1.00	1.02
1,2,3,6,7,8-HxCDD	1.23	1.23	1.14	1.14	1.18	1.20	1.30	1.21
1,2,3,7,8,9-HxCDD	1.23	1.21	1.14	1.14	1.18	1.19	1.25	1.18
1,2,3,4,6,7,8-HpCDD	1.14	0.98	0.99	0.98	0.99	0.94	0.96	0.88
OCDD	0.72	0.66	0.7	0.76	0.75	0.75	0.76	0.67
2,3,7,8-TCDF	0.94	0.96	1	0.94	1.00	1.00	0.98	1.02
1,2,3,7,8-PeCDF	0.97	0.85	0.93	0.95	1.12	0.92	0.78	0.93
2,3,4,7,8-PeCDF	0.97	0.88	0.94	0.9	1.10	0.90	0.76	0.89
1,2,3,4,7,8-HxCDF	1.66	1.47	1.35	1.5	1.59	1.60	1.55	1.52
1,2,3,6,7,8-HxCDF	1.99	1.78	1.53	1.63	1.76	1.80	1.85	1.80
2,3,4,6,7,8-HxCDF	1.77	1.61	1.45	1.5	1.67	1.67	1.72	1.65
1,2,3,7,8,9-HxCDF	1.57	1.4	1.25	1.32	1.39	1.39	1.37	1.38
1,2,3,4,6,7,8-HpCDF	1.35	1.16	1.17	1.11	1.21	1.20	1.14	1.12
1,2,3,4,7,8,9-HpCDF	1.09	0.92	0.93	0.92	1.03	0.96	0.89	0.90
OCDF	1.16	1.04	1.02	1.07	1.16	1.14	1.05	1.03

8290B ICALs

Ax	MM1_DF_03312010A_13 SEP11	MM1_DF_03312010A_23 SEP11	MM1_11012012A_DF_13 FEB2013	MM1_11012012A_DF_ 18SEPT2013	RSD	Mean	sd	PD from Mean
2,3,7,8-TCDD	1.19	1.14	1.06	1.18	5.6	1.14	0.06	4%
1,2,3,7,8-PeCDD	1.07	1.03	0.94	1.07	6.5	1.01	0.07	6%
1,2,3,4,7,8-HxCDD	1.16	1.09	1.02	1.19	6.6	1.11	0.07	7%
1,2,3,6,7,8-HxCDD	1.00	1.00	1.04	1.19	6.0	1.05	0.06	13%
1,2,3,7,8,9-HxCDD	1.07	1.04	0.98	1.12	5.7	1.03	0.06	9%
1,2,3,4,6,7,8-HpCDD	1.02	1.00	1.02	1.08	7.7	0.98	0.07	11%
OCDD	1.05	1.07	1.08	1.14	7.5	1.02	0.08	12%
2,3,7,8-TCDF	1.07	1.03	0.97	1.10	7.4	1.04	0.08	5%
1,2,3,7,8-PeCDF	0.95	0.96	1.00	1.17	9.3	1.00	0.09	16%
2,3,4,7,8-PeCDF	1.03	1.04	0.96	1.14	7.2	1.04	0.07	11%
1,2,3,4,7,8-HxCDF	1.21	1.20	1.23	1.34	8.1	1.18	0.10	14%
1,2,3,6,7,8-HxCDF	1.18	1.18	1.14	1.23	7.1	1.16	0.08	6%
2,3,4,6,7,8-HxCDF	1.12	1.12	1.14	1.26	7.9	1.12	0.09	13%
1,2,3,7,8,9-HxCDF	1.17	1.17	1.13	1.23	6.6	1.15	0.08	7%
1,2,3,4,6,7,8-HpCDF	1.34	1.34	1.34	1.42	7.9	1.34	0.11	6%
1,2,3,4,7,8,9-HpCDF	1.37	1.38	1.30	1.39	8.3	1.35	0.11	3%
OCDF	0.98	0.98	1.00	1.11	8.7	0.96	0.08	15%
ES								
2,3,7,8-TCDD	1.05	1.02	1.01	1.02	5.1	1.08	0.05	-5%
1,2,3,7,8-PeCDD	0.92	0.86	0.90	0.92	8.3	0.94	0.08	-2%
1,2,3,4,7,8-HxCDD	1.03	1.04	0.99	1.02	4.0	1.05	0.04	-2%
1,2,3,6,7,8-HxCDD	1.16	1.18	1.02	1.01	6.3	1.15	0.07	-13%
1,2,3,7,8,9-HxCDD	1.17	1.16	1.12	1.14	4.4	1.20	0.05	-5%
1,2,3,4,6,7,8-HpCDD	1.00	0.94	0.90	1.02	8.8	0.97	0.09	5%
OCDD	0.85	0.72	0.74	0.72	11.2	0.76	0.08	-5%
2,3,7,8-TCDF	1.00	1.01	1.05	1.01	3.3	1.00	0.03	1%
1,2,3,7,8-PeCDF	0.87	0.85	0.88	0.89	10.1	0.88	0.09	1%
2,3,4,7,8-PeCDF	0.88	0.85	0.91	0.91	10.1	0.90	0.09	1%
1,2,3,4,7,8-HxCDF	1.41	1.41	1.25	1.53	8.7	1.50	0.13	2%
1,2,3,6,7,8-HxCDF	1.54	1.58	1.40	1.73	9.5	1.67	0.16	3%
2,3,4,6,7,8-HxCDF	1.49	1.48	1.29	1.61	8.4	1.57	0.13	3%
1,2,3,7,8,9-HxCDF	1.34	1.32	1.17	1.39	9.1	1.35	0.12	3%
1,2,3,4,6,7,8-HpCDF	1.13	1.10	1.03	1.20	10.9	1.13	0.12	6%
1,2,3,4,7,8,9-HpCDF	0.96	0.90	0.89	1.07	12.7	0.92	0.12	16%
OCDF	1.22	1.09	1.00	1.04	12.4	1.08	0.13	-3%

Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 11:39 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS0		UTP: 18-Sep-2013 12:51 MDC			Checkcode: 304-784-ZJK		
Sample ID: 11012012A		Report: 19 Sep 2013 09:11 MC			Datafile: 130918P1-02		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.58	1.98E+05	0.84	Y	1.18	1.02	-13%
12378-PeCDD	33.85	9.11E+05	1.61	Y	1.07	1.03	-4%
123478-HxCDD	38.49	8.27E+05	1.31	Y	1.19	1.16	-3%
123678-HxCDD	38.62	8.08E+05	1.31	Y	1.19	1.13	-5%
123789-HxCDD	38.96	8.98E+05	1.17	Y	1.12	1.11	0%
1234678-HpCDD	42.64	7.56E+05	1.02	Y	1.08	1.03	-5%
OCDD	46.38	1.10E+06	0.87	Y	1.14	1.08	-6%
2378-TCDF	26.59	3.11E+05	0.79	Y	1.10	1.01	-8%
12378-PeCDF	32.12	1.45E+06	1.63	Y	1.17	1.06	-9%
23478-PeCDF	33.44	1.53E+06	1.56	Y	1.14	1.12	-2%
123478-HxCDF	37.32	1.38E+06	1.24	Y	1.34	1.28	-4%
123678-HxCDF	37.49	1.41E+06	1.37	Y	1.23	1.17	-5%
234678-HxCDF	38.27	1.33E+06	1.29	Y	1.26	1.15	-8%
123789-HxCDF	39.38	1.15E+06	1.34	Y	1.23	1.14	-8%
1234678-HpCDF	41.36	1.10E+06	1.00	Y	1.42	1.30	-9%
1234789-HpCDF	43.24	9.89E+05	1.12	Y	1.39	1.31	-6%
OCDF	46.62	1.56E+06	0.93	Y	1.11	1.06	-4%
ES 2378-TCDD	27.55	7.76E+07	0.81	Y	1.02	1.02	0%
ES 12378-PeCDD	33.83	7.05E+07	1.62	Y	0.92	0.93	1%
ES 123478-HxCDD	38.47	5.71E+07	1.16	Y	1.02	0.97	-6%
ES 123678-HxCDD	38.61	5.70E+07	1.17	Y	1.01	0.96	-4%
ES 123789-HxCDD	38.94	6.44E+07	1.18	Y	1.14	1.09	-4%
ES 1234678-HpCDD	42.62	5.88E+07	1.06	Y	1.02	1.00	-3%
ES OCDD	46.36	8.16E+07	0.88	Y	0.72	0.69	-4%
ES 2378-TCDF	26.57	1.23E+08	0.69	Y	1.01	1.00	-1%
ES 12378-PeCDF	32.10	1.09E+08	1.49	Y	0.89	0.89	0%
ES 23478-PeCDF	33.42	1.09E+08	1.45	Y	0.91	0.89	-2%
ES 123478-HxCDF	37.30	8.59E+07	0.53	Y	1.53	1.45	-5%
ES 123678-HxCDF	37.47	9.63E+07	0.54	Y	1.73	1.63	-6%
ES 234678-HxCDF	38.25	9.20E+07	0.53	Y	1.61	1.56	-3%
ES 123789-HxCDF	39.36	8.05E+07	0.53	Y	1.39	1.36	-2%
ES 1234678-HpCDF	41.35	6.76E+07	0.45	Y	1.20	1.14	-5%
ES 1234789-HpCDF	43.23	6.05E+07	0.44	Y	1.07	1.02	-4%
ES OCDF	46.61	1.17E+08	0.91	Y	1.04	0.99	-5%

Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 11:39 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS0		UTP: 18-Sep-2013 12:51 MDC			Checkcode: 304-784		
Sample ID: 11012012A		Report: 19 Sep 2013 09:11 MC			Datafile: 130918P1-02		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
JS 1234-TCDD	26.81	7.61E+07	0.81	Y	-	-	-
JS 1234-TCDF	25.04	1.23E+08	0.72	Y	-	-	-
JS 123467-HxCDD	38.83	2.95E+07	1.17	Y	-	-	-
CS 37C1-2378-TCDD	NotFnd		n/a	-			
CS 12347-PeCDD	33.24	7.06E+07	1.62	Y	0.88	0.93	6%
CS 12346-PeCDF	31.48	1.13E+08	1.51	Y	0.90	0.92	2%
CS 123469-HxCDF	37.84	8.34E+07	0.53	Y	1.40	1.41	1%
CS 1234689-HpCDF	41.90	6.61E+07	0.44	Y	1.09	1.12	3%
SS 37C1-2378-TCDD	NotFnd		n/a	-			
SS 12347-PeCDD	33.24	7.06E+07	1.62	Y	0.96	1.00	5%
SS 12346-PeCDF	31.48	1.13E+08	1.51	Y	1.02	1.03	1%
SS 123469-HxCDF	37.84	8.34E+07	0.53	Y	0.81	0.87	6%
SS 1234689-HpCDF	41.90	6.61E+07	0.44	Y	0.91	0.98	7%
AS 1368-TCDD	23.45	7.53E+07	0.81	Y	1.01	0.99	-2%
AS 1368-TCDF	21.24	1.48E+08	0.75	Y	1.22	1.21	-1%
FS 1278-TCDD	27.93	9.31E+07	0.80	Y	1.18	1.20	2%
FS 12478-PeCDD	32.38	7.67E+07	1.62	Y	1.06	1.09	3%
FS 123468-HxCDD	37.22	7.72E+07	1.17	Y	1.26	1.35	7%
FS 1234679-HpCDD	41.72	6.87E+07	1.07	Y	1.12	1.17	4%
TS 1378-TCDD	25.68	8.71E+07	0.80	Y	1.11	1.12	1%
OCDD-a	NotFnd				0.07		
OCDF-a	NotFnd				0.06		

SGS Analytical Perspectives — Run Log

Project: MM1_DF_11012012A_18SEPT2013

Instrument: MM1 (AutoSpec-Ultima)

MS Experiment: DF_CL4-8B

GC Program: DB5MS_60M

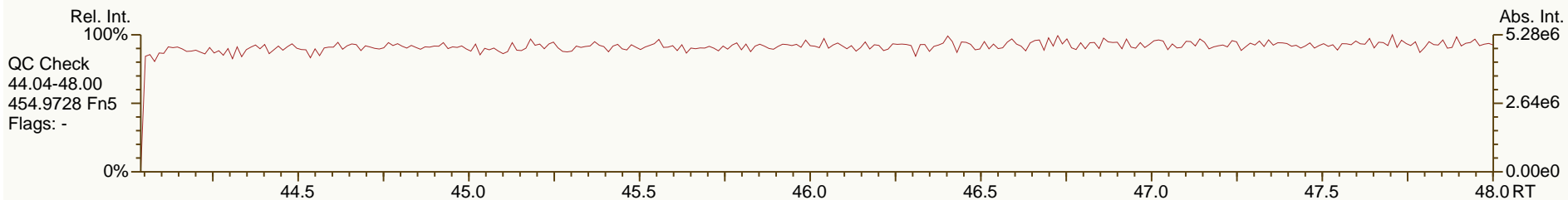
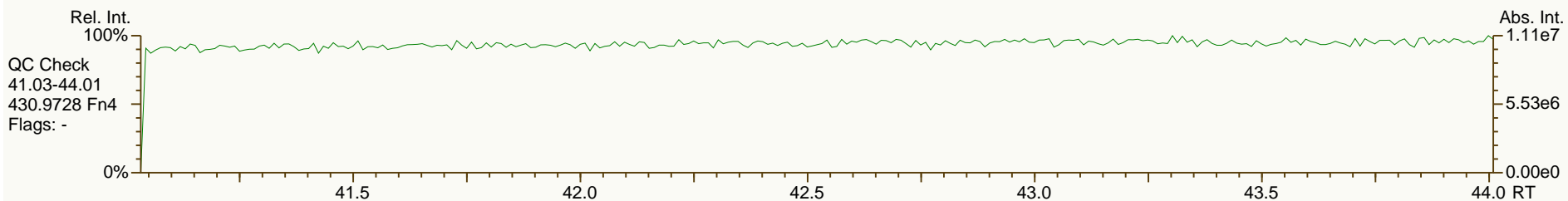
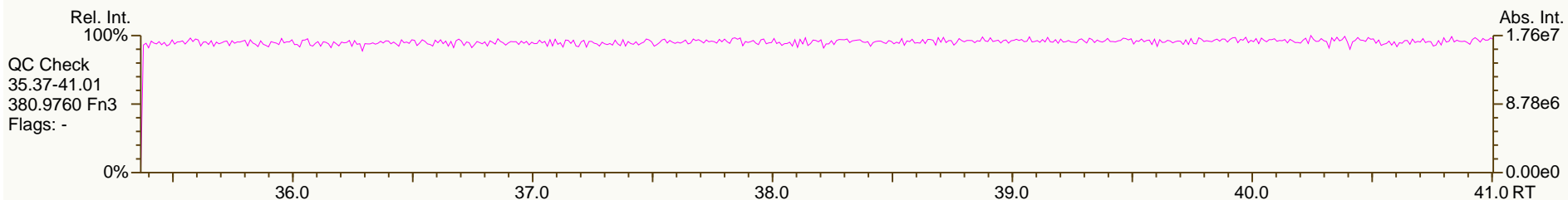
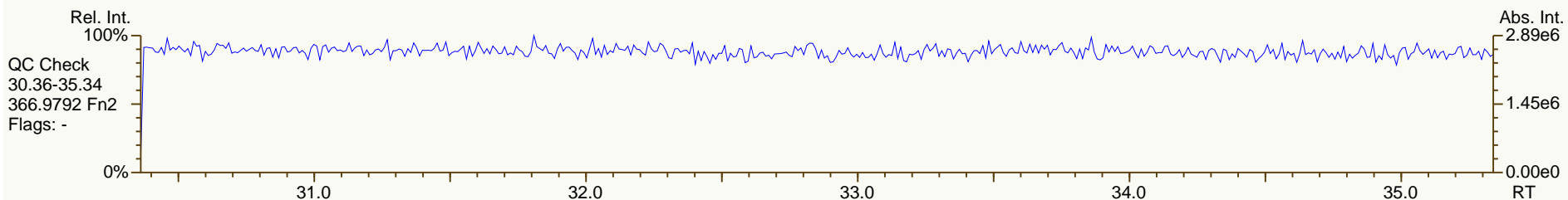
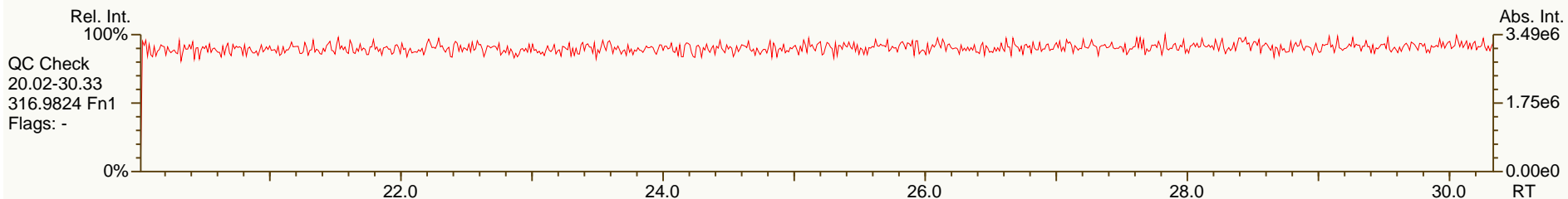
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1	130918P1-01	15	SBS_121125_DF_PA	1.00	solvent blank	MDC	808-416	18-SEP-2013	10:46:49
2	130918P1-02	16	CS0	1.00	11012012A	MDC	304-784	18-SEP-2013	11:39:23
3	130918P1-03	17	CS1	1.00	11012012A	MDC	542-604	18-SEP-2013	12:31:56
4	130918P1-04	18	CS2	1.00	11012012A	MDC	013-506	18-SEP-2013	13:24:29
5	130918P1-05	19	CS3	1.00	11012012A	MDC	994-273	18-SEP-2013	14:17:08
6	130918P1-06	20	CS4	1.00	11012012A	MDC	777-980	18-SEP-2013	15:09:42
7	130918P1-07	21	CS5	1.00	11012012A	MDC	467-721	18-SEP-2013	16:02:11
8	130918P1-08	22	CS6	1.00	11012012A	MDC	081-682	18-SEP-2013	16:54:40

REVIEWED*By Michael D H Chu at 9:11 am, Sep 20, 2013***APPROVED***By Jeremy Kadylak at 9:47 am, Sep 20, 2013*

SGS-AP ID: CS0
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

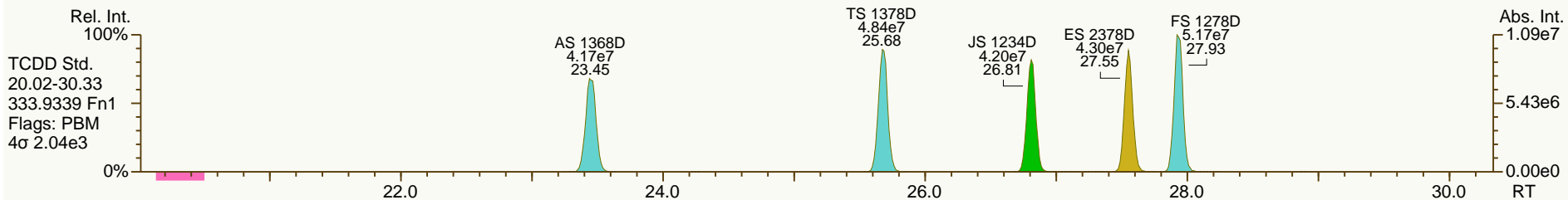
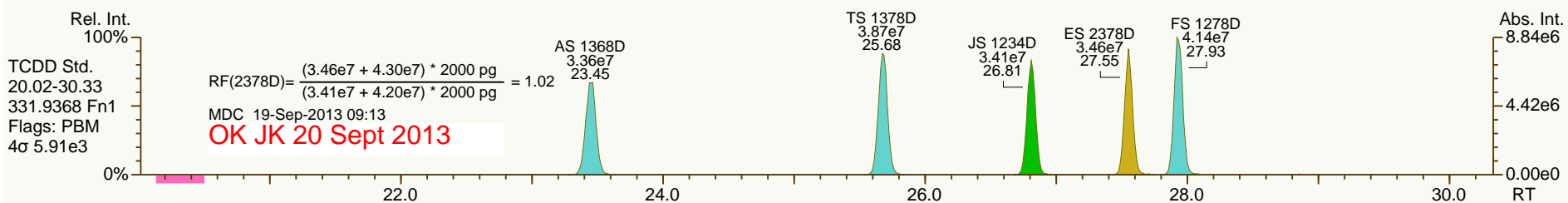
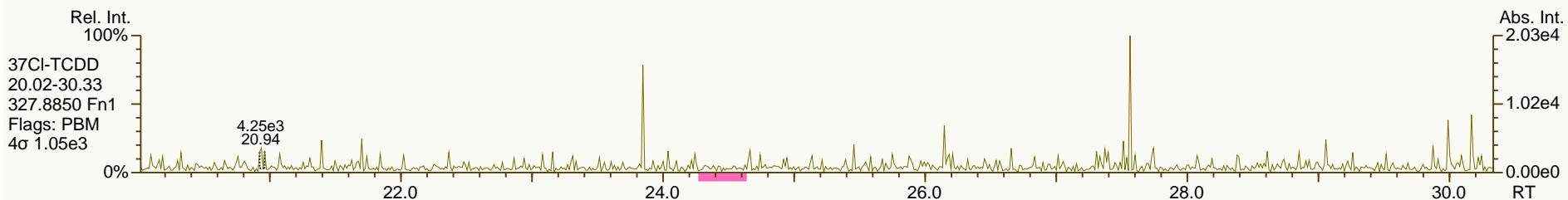
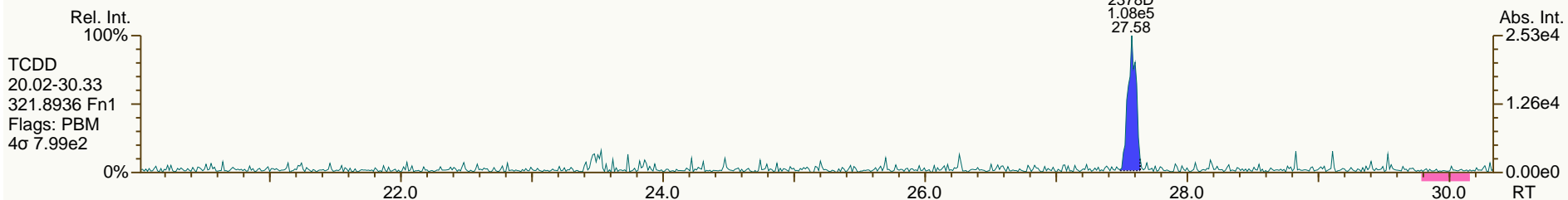
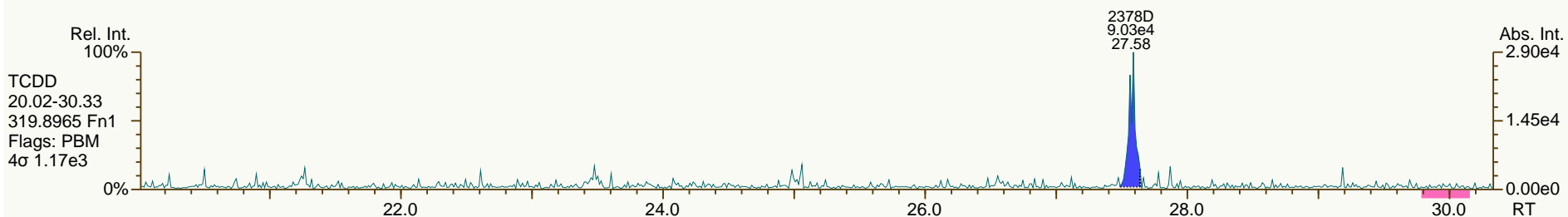
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SGS-AP ID: CS0
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

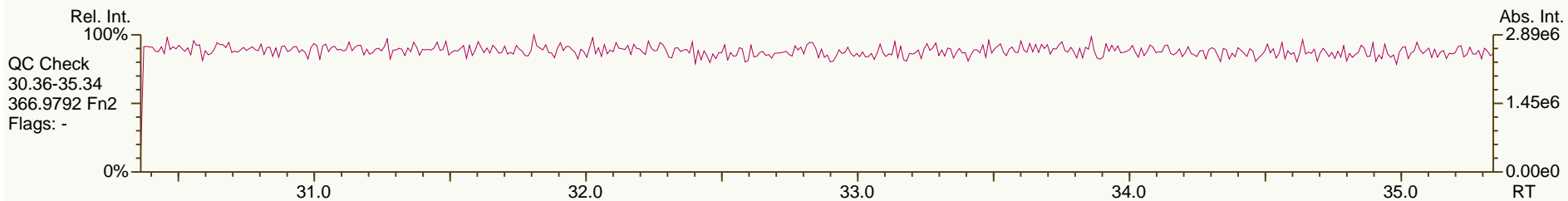
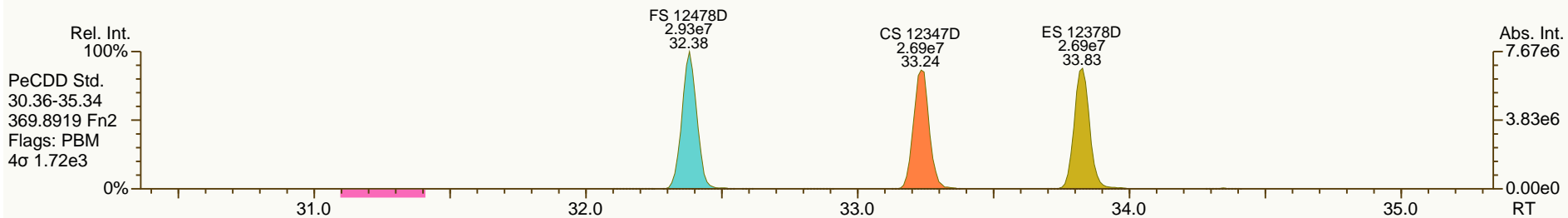
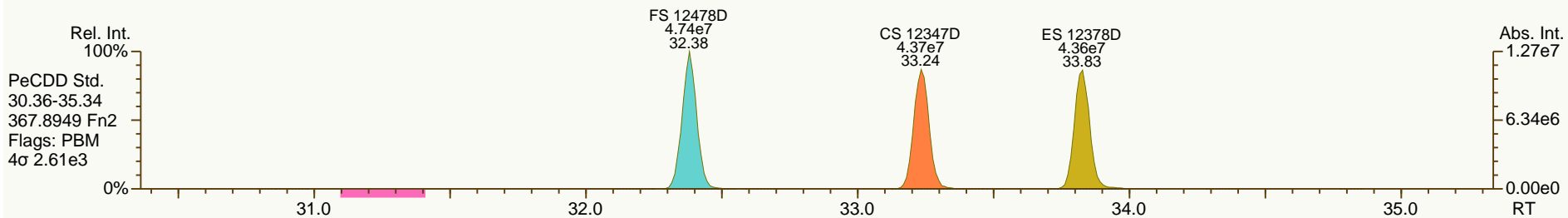
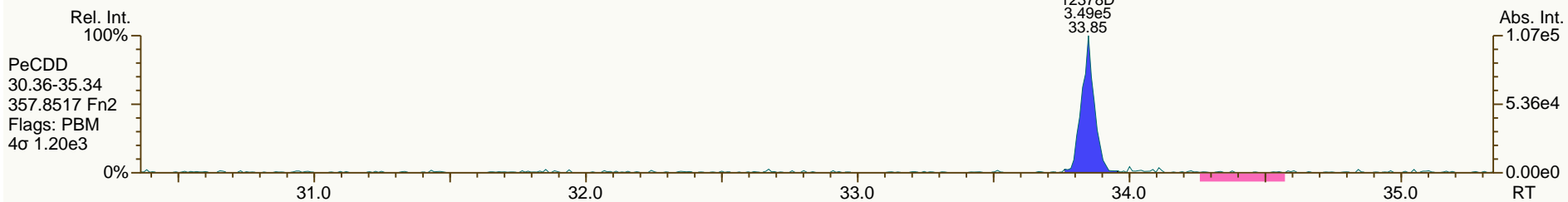
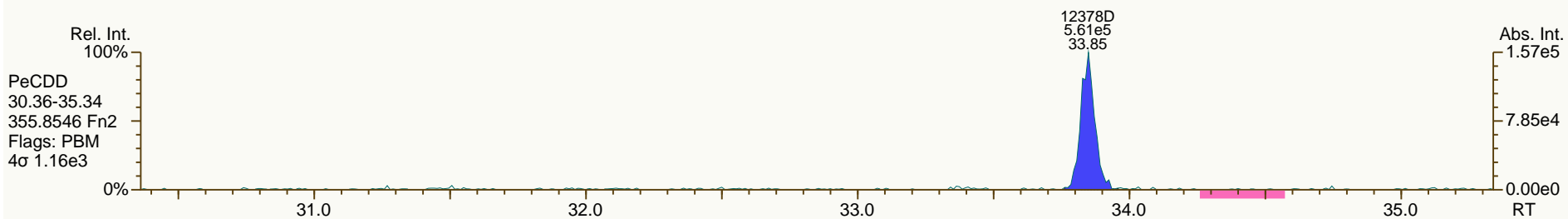
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SGS-AP ID: CS0
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

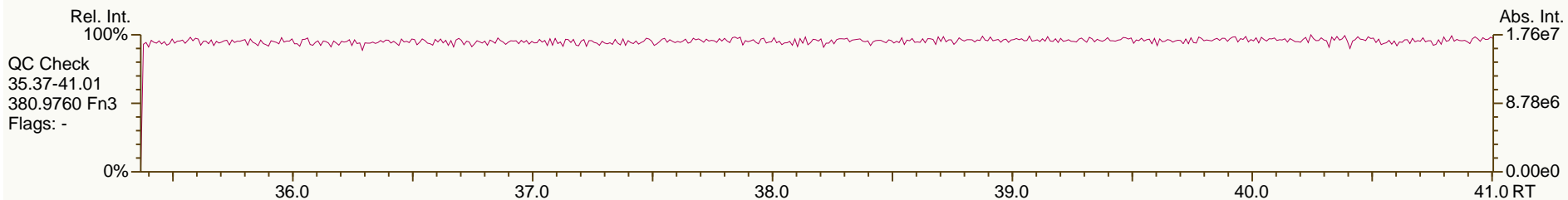
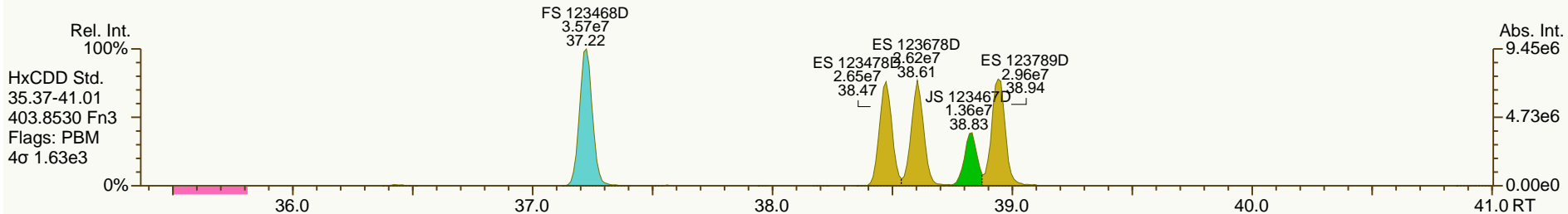
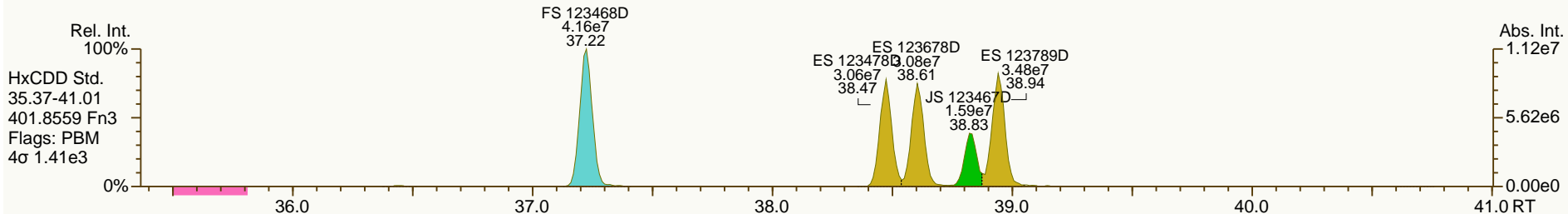
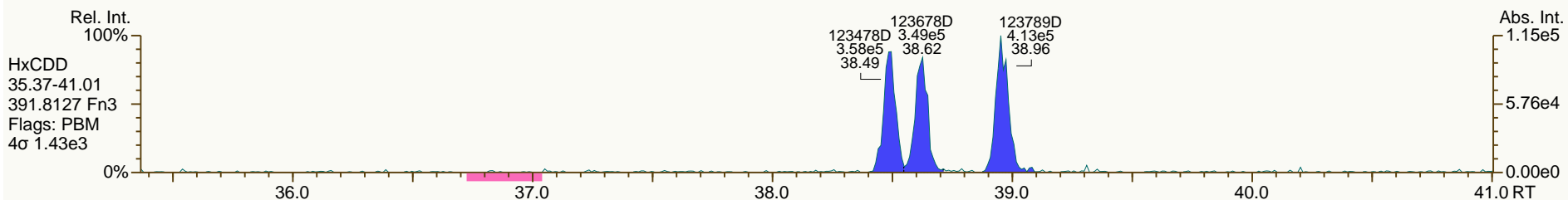
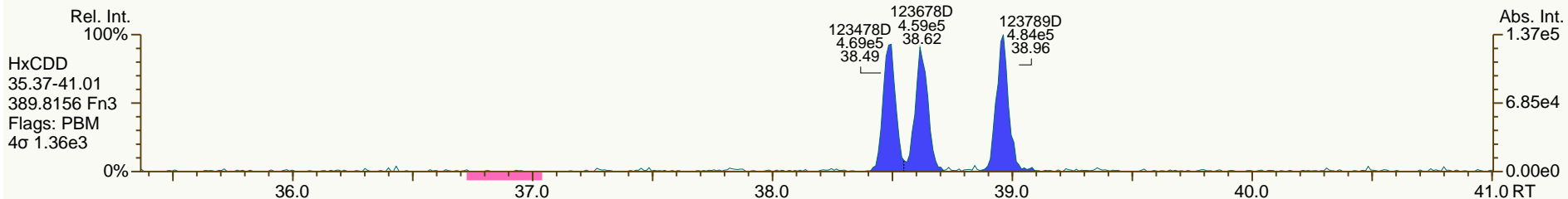
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SGS-AP ID: CS0
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

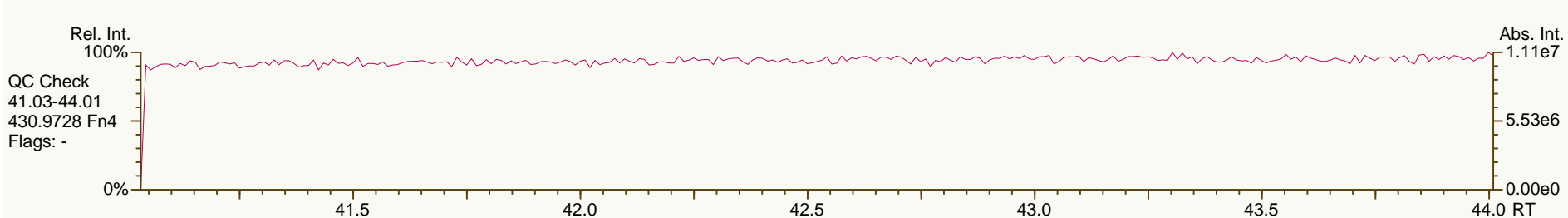
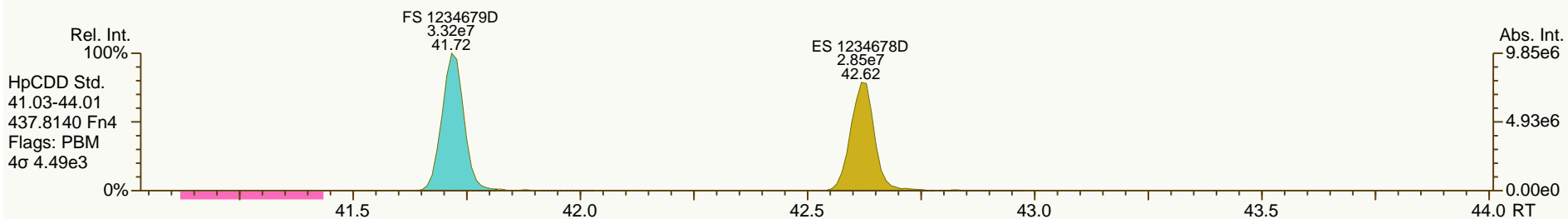
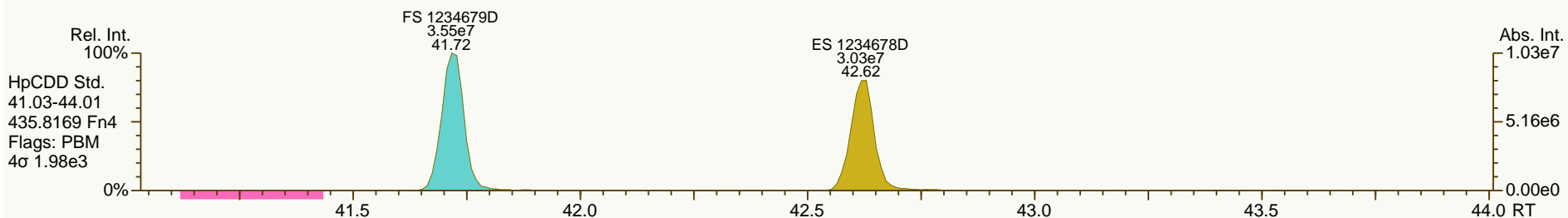
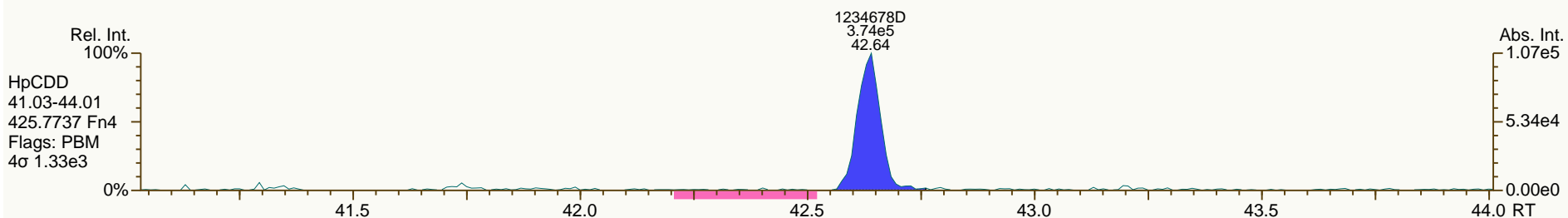
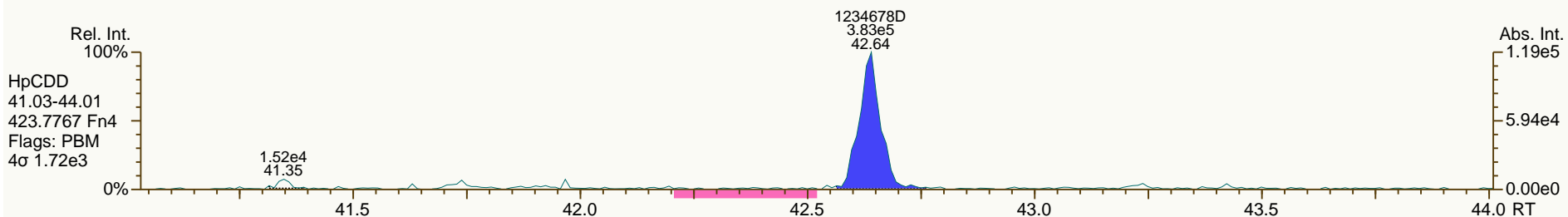
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SGS-AP ID: CS0
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

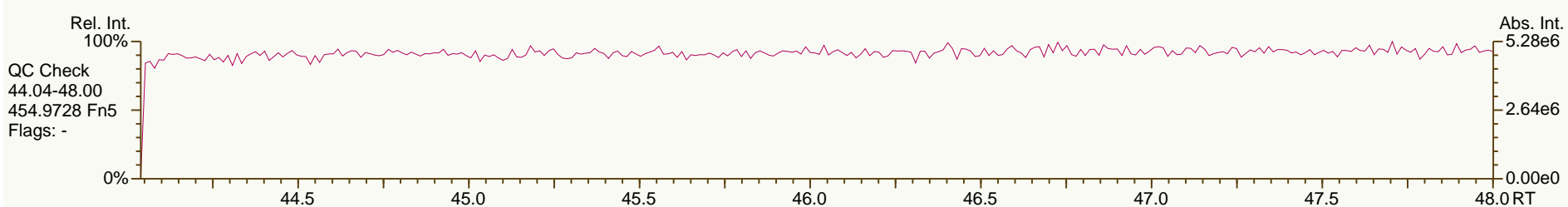
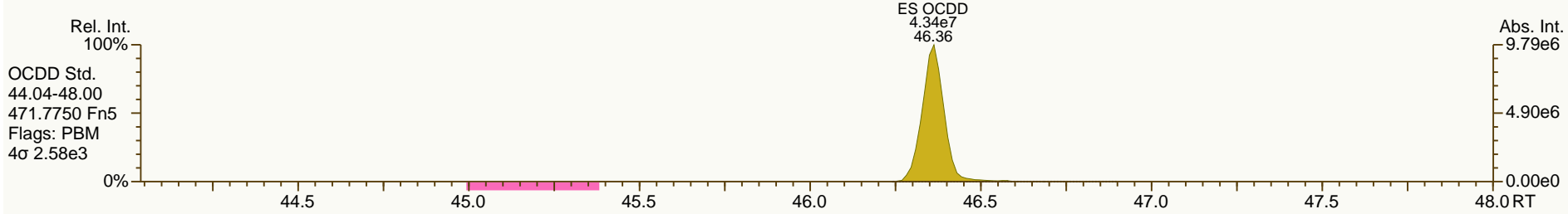
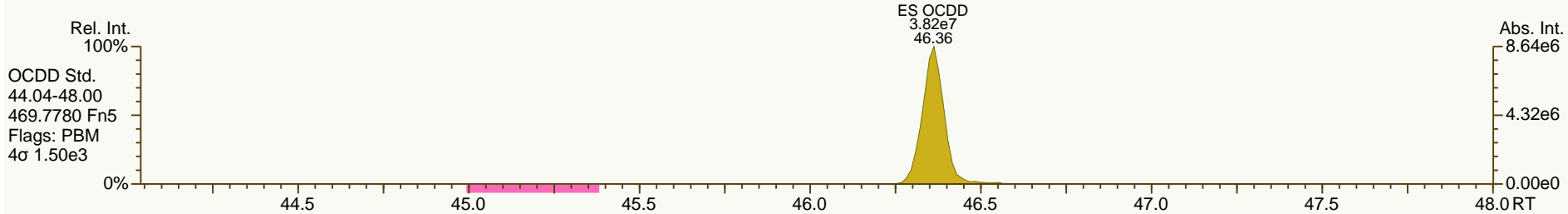
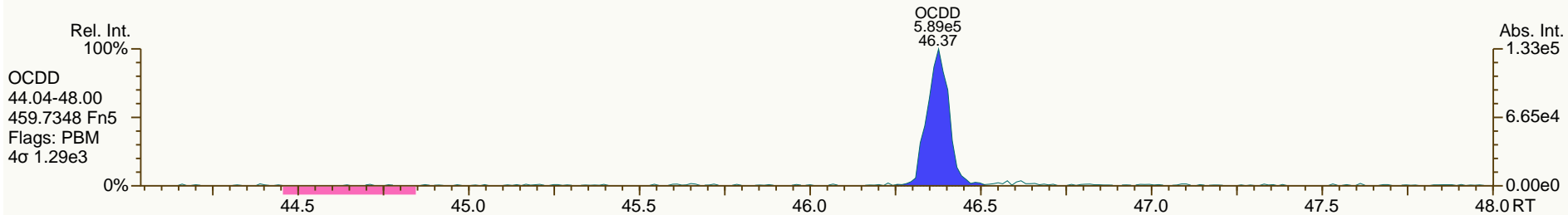
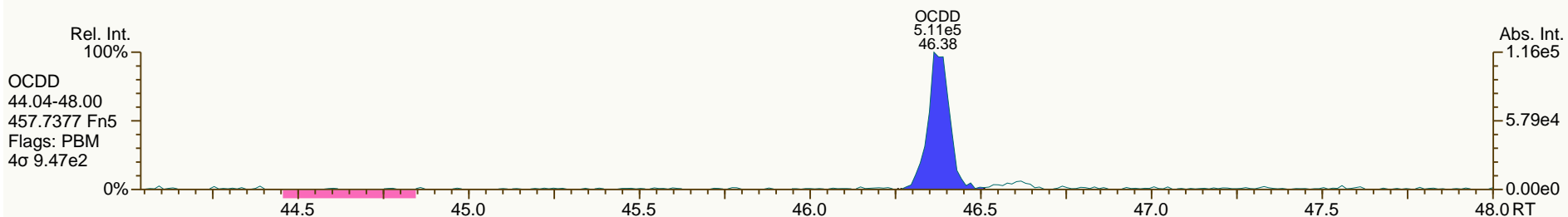
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SGS-AP ID: CS0
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

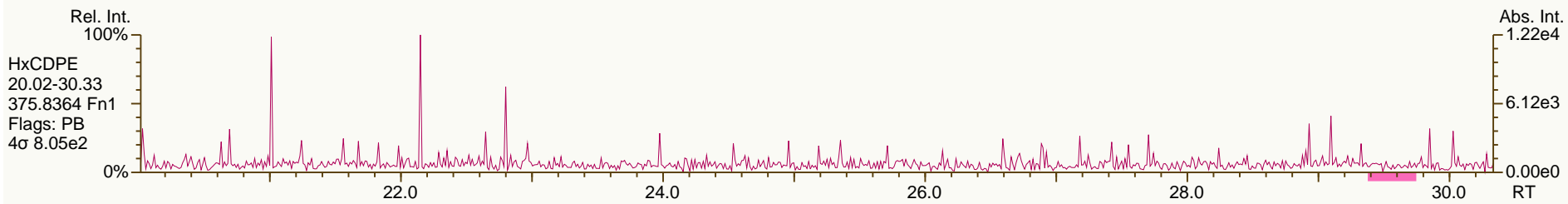
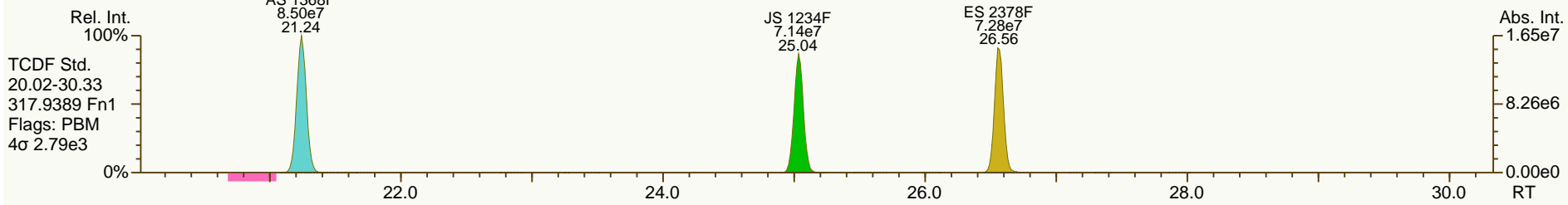
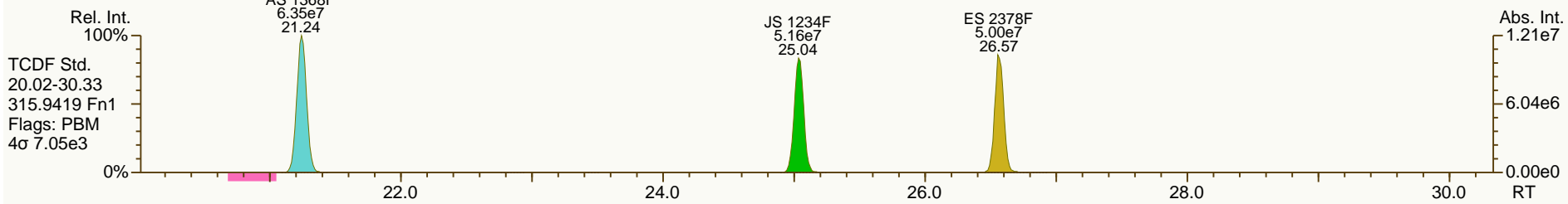
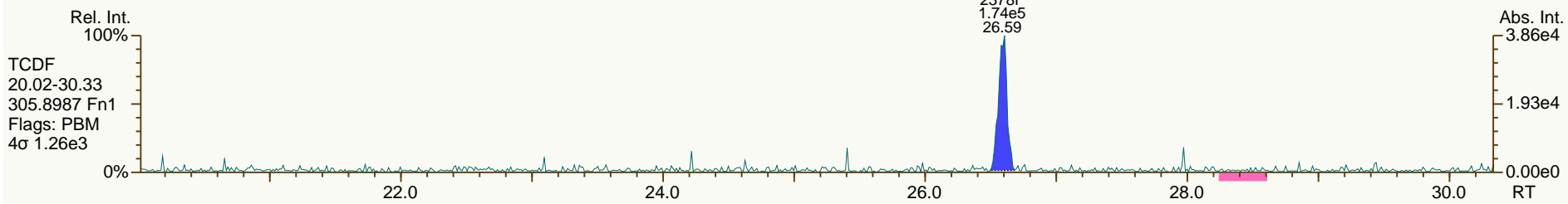
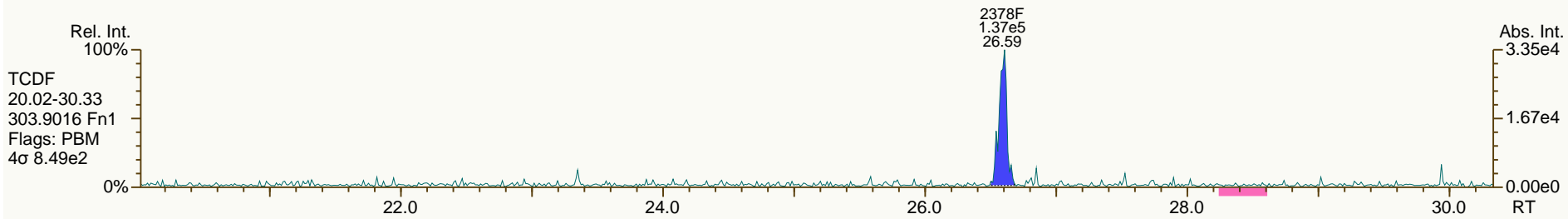
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SGS-AP ID: CS0
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

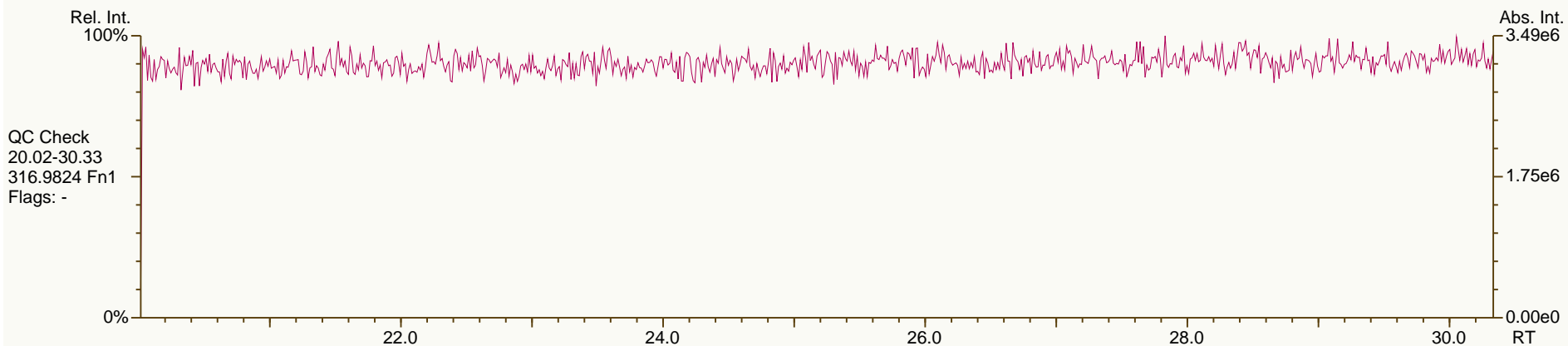
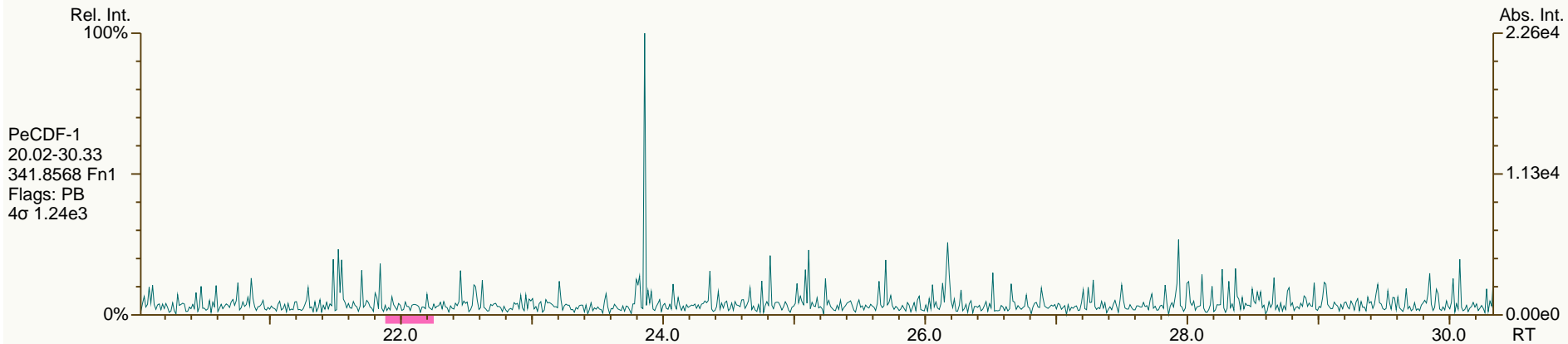
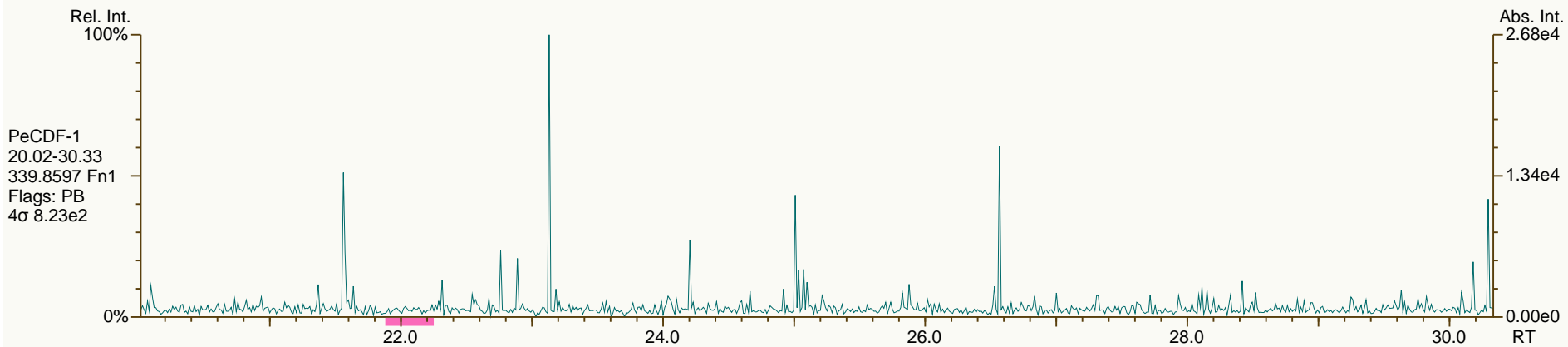
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User: MDC Datafile: 130918P1-02



SGS-AP ID: CS0
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

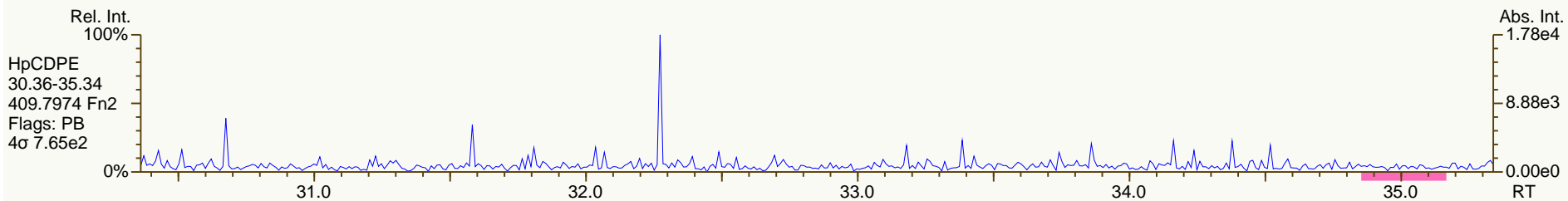
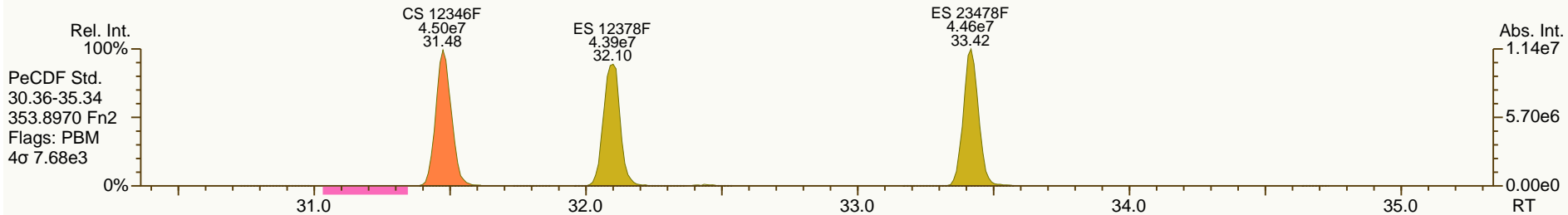
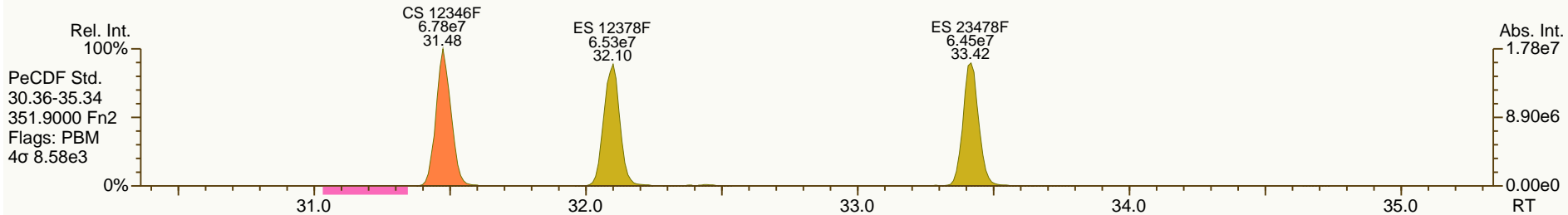
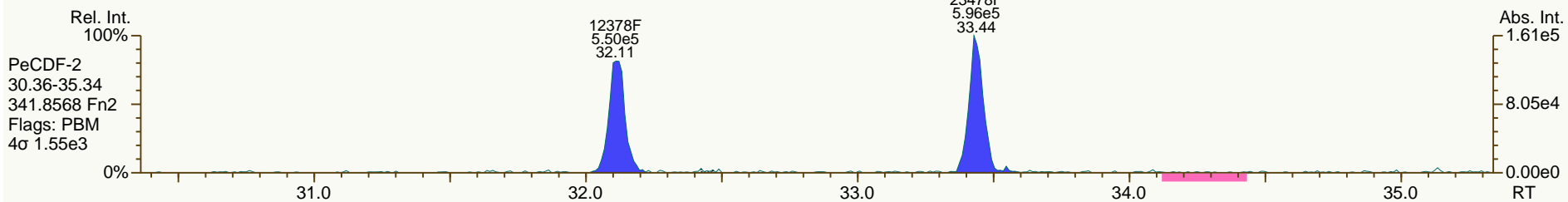
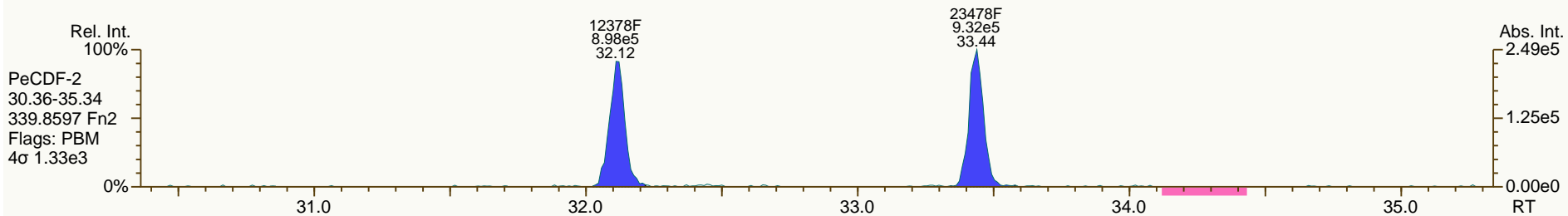
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SGS-AP ID: CS0
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

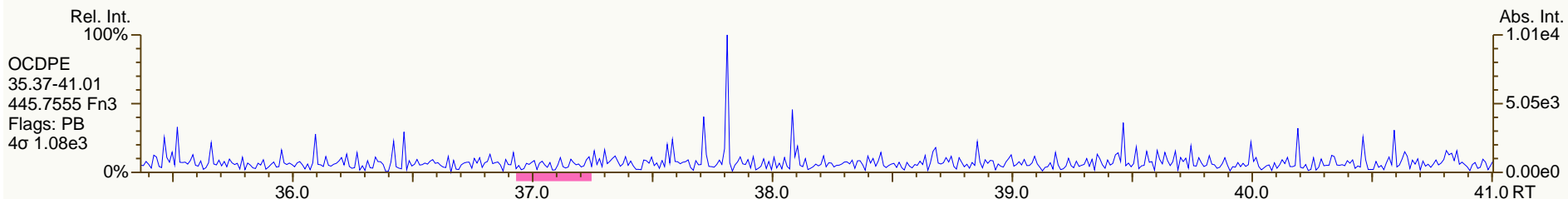
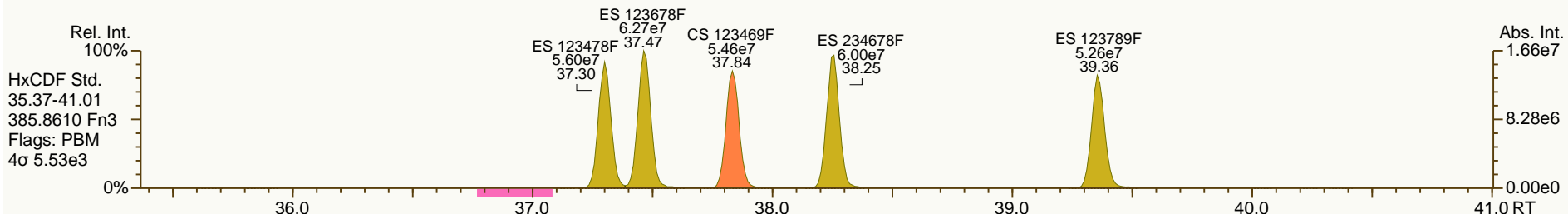
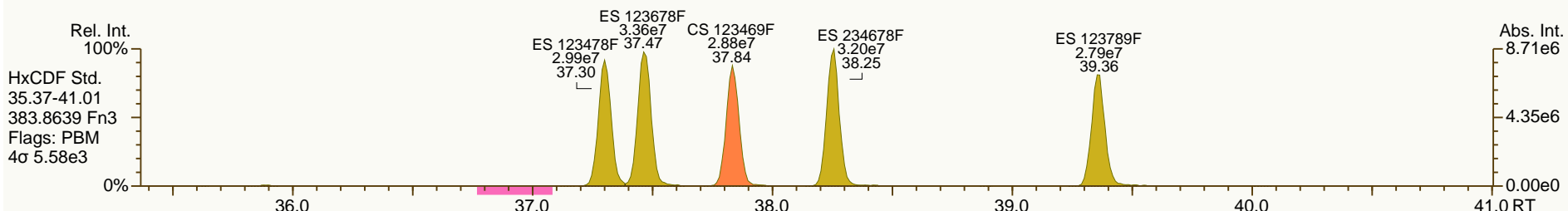
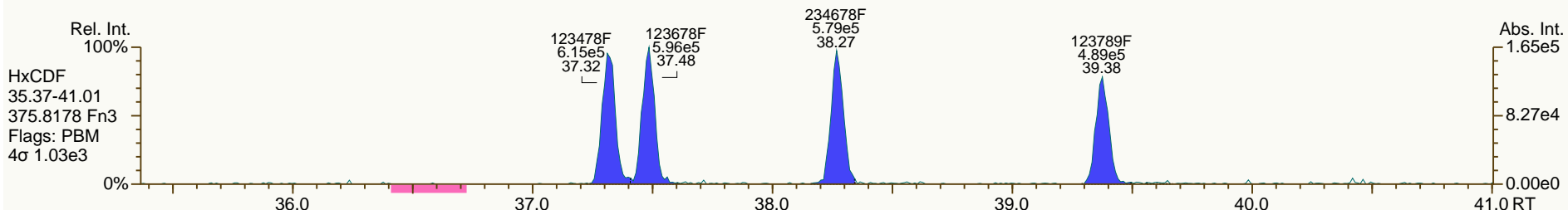
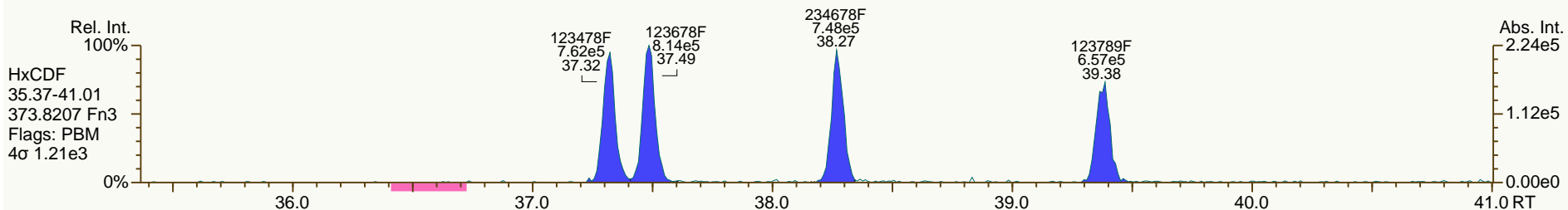
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SGS-AP ID: CS0
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

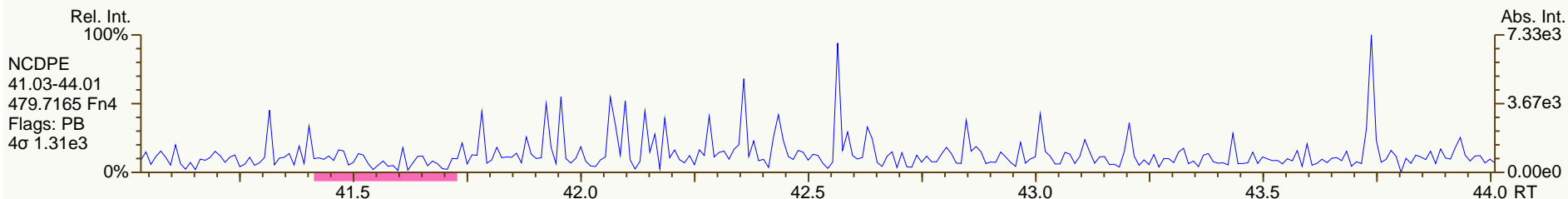
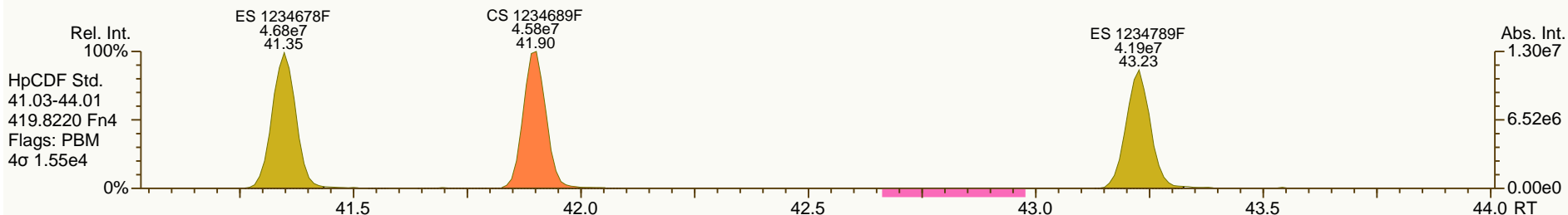
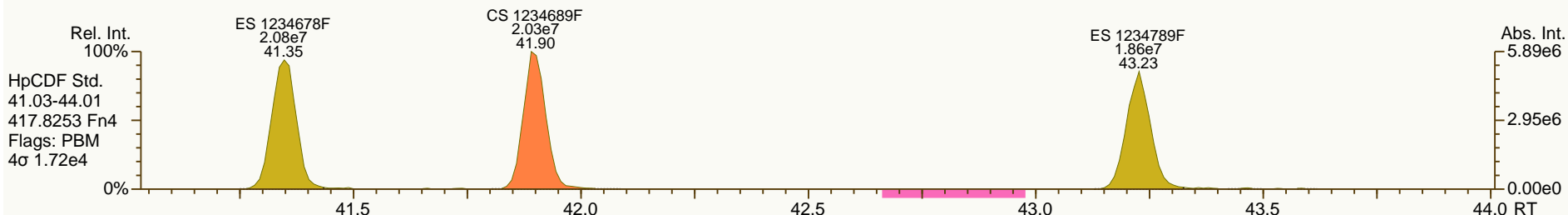
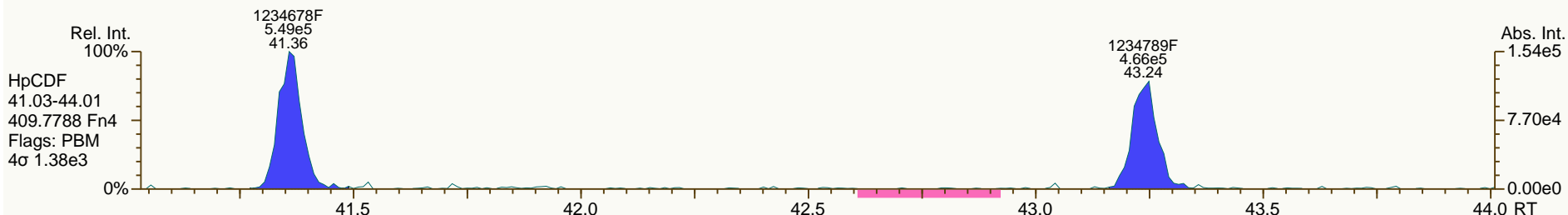
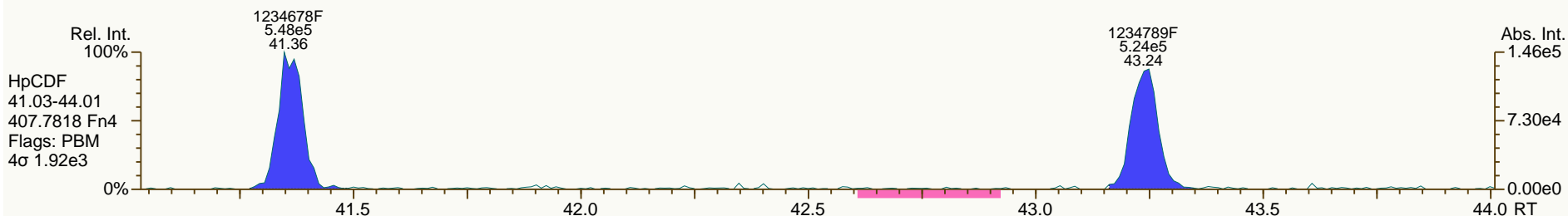
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SGS-AP ID: CS0
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

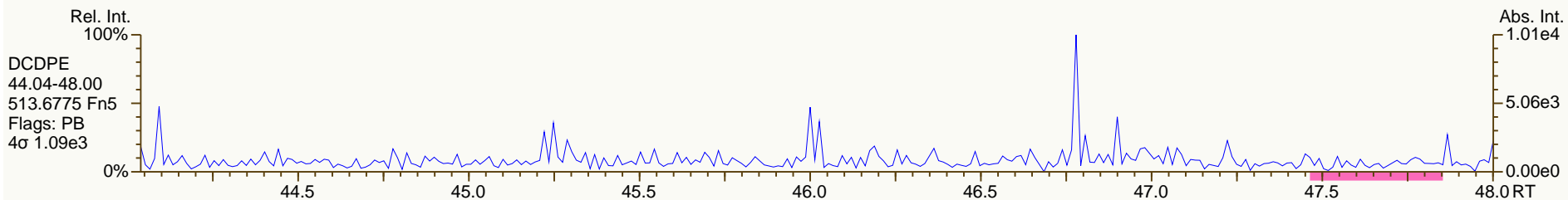
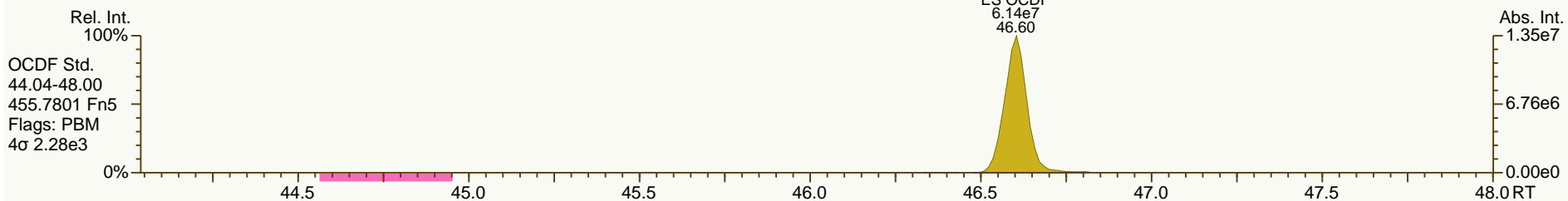
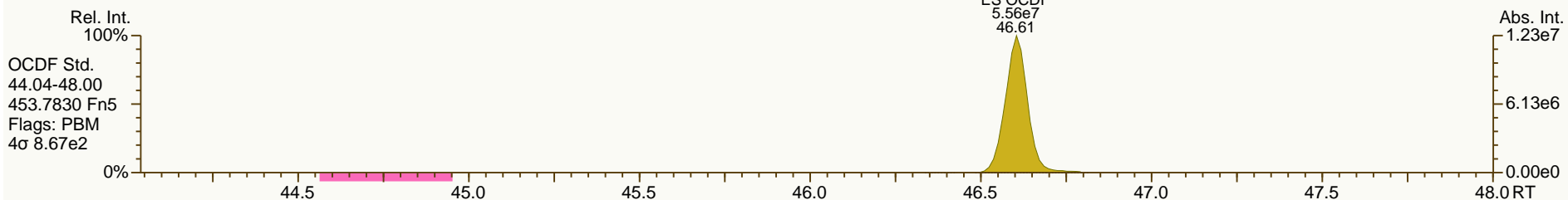
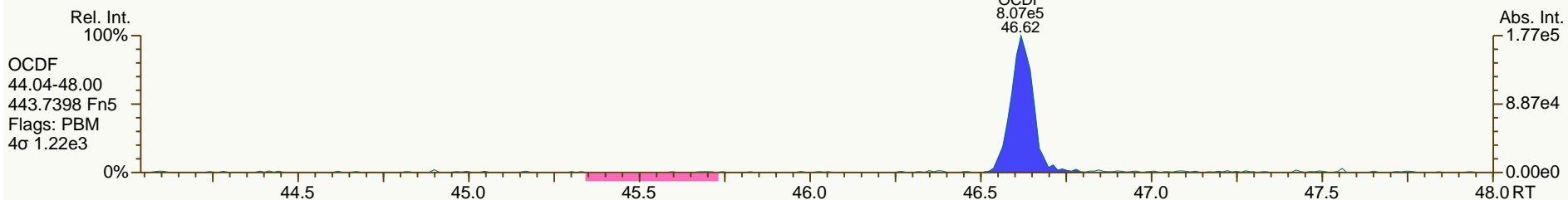
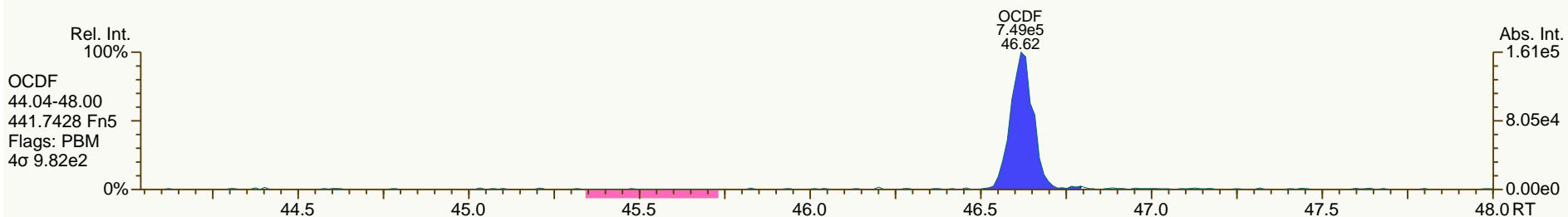
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SGS-AP ID: CS0
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

Acq: 18-SEP-2013 11:39:23
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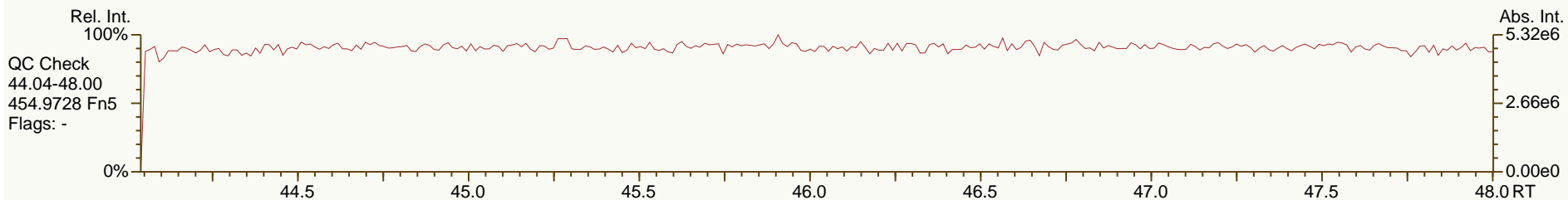
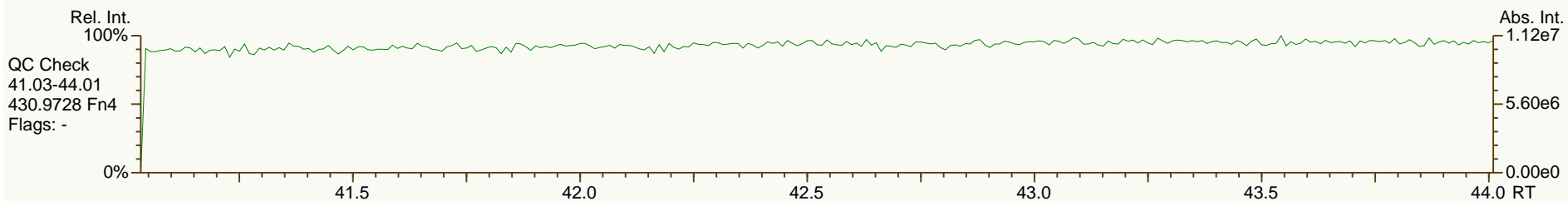
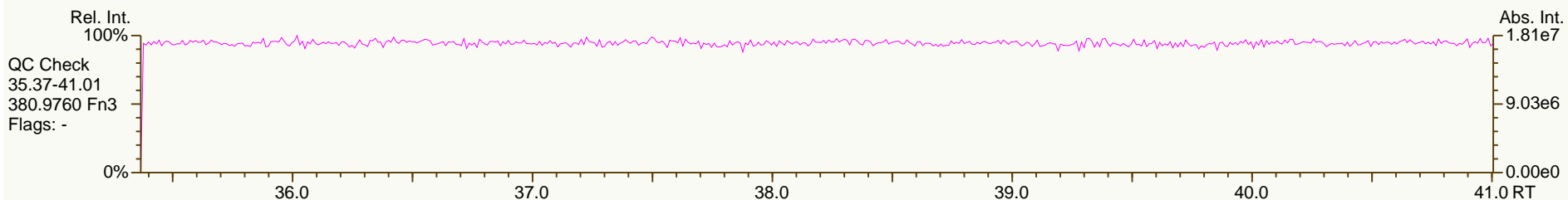
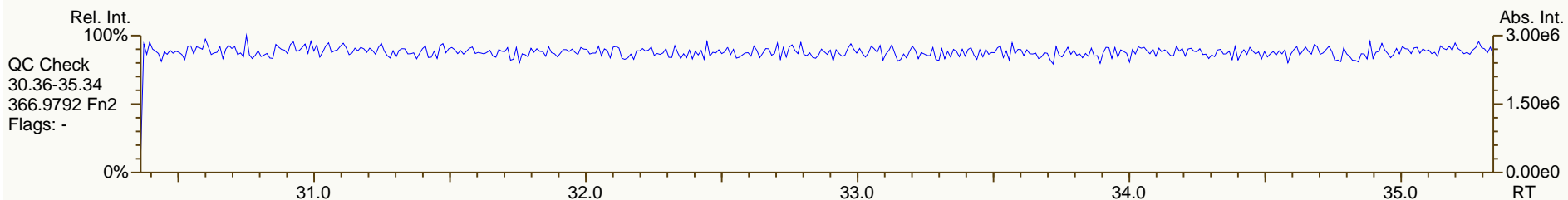
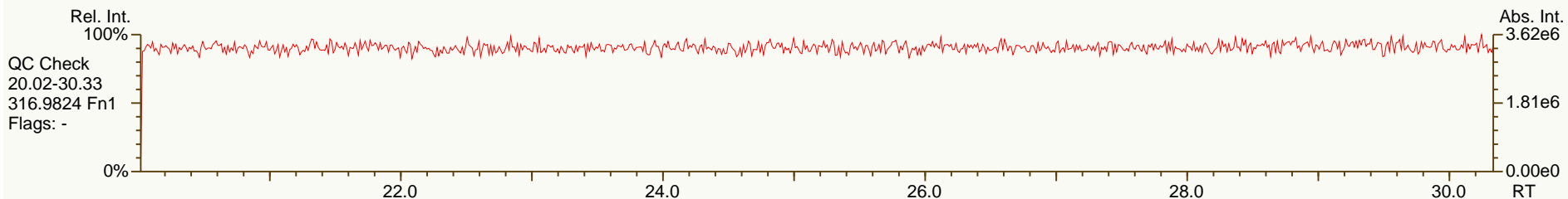
Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 12:31 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS1		UTP: 18-Sep-2013 16:10 MDC			Checkcode: 542-604-CQJ		
Sample ID: 11012012A		Report: 19 Sep 2013 09:11 MC			Datafile: 130918P1-03		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.58	4.54E+05	0.77	Y	1.18	1.19	1%
12378-PeCDD	33.85	1.67E+06	1.57	Y	1.07	1.02	-5%
123478-HxCDD	38.49	1.52E+06	1.24	Y	1.19	1.12	-6%
123678-HxCDD	38.63	1.49E+06	1.19	Y	1.19	1.15	-4%
123789-HxCDD	38.96	1.59E+06	1.30	Y	1.12	1.07	-4%
1234678-HpCDD	42.64	1.39E+06	1.13	Y	1.08	1.03	-5%
OCDD	46.38	2.00E+06	0.85	Y	1.14	1.08	-5%
2378-TCDF	26.58	6.62E+05	0.84	Y	1.10	1.11	1%
12378-PeCDF	32.11	2.94E+06	1.55	Y	1.17	1.18	1%
23478-PeCDF	33.44	2.91E+06	1.51	Y	1.14	1.15	1%
123478-HxCDF	37.32	2.65E+06	1.25	Y	1.34	1.32	-2%
123678-HxCDF	37.49	2.65E+06	1.22	Y	1.23	1.17	-5%
234678-HxCDF	38.27	2.59E+06	1.21	Y	1.26	1.24	-2%
123789-HxCDF	39.38	2.10E+06	1.25	Y	1.23	1.17	-5%
1234678-HpCDF	41.36	2.15E+06	1.02	Y	1.42	1.40	-1%
1234789-HpCDF	43.24	1.84E+06	1.03	Y	1.39	1.30	-6%
OCDF	46.62	2.78E+06	0.94	Y	1.11	1.06	-4%
ES 2378-TCDD	27.55	7.62E+07	0.82	Y	1.02	1.01	-1%
ES 12378-PeCDD	33.83	6.52E+07	1.61	Y	0.92	0.86	-6%
ES 123478-HxCDD	38.47	5.41E+07	1.21	Y	1.02	0.99	-3%
ES 123678-HxCDD	38.61	5.19E+07	1.20	Y	1.01	0.95	-6%
ES 123789-HxCDD	38.94	5.95E+07	1.21	Y	1.14	1.09	-5%
ES 1234678-HpCDD	42.62	5.37E+07	1.06	Y	1.02	0.98	-4%
ES OCDD	46.36	7.38E+07	0.90	Y	0.72	0.68	-6%
ES 2378-TCDF	26.56	1.20E+08	0.71	Y	1.01	1.00	-1%
ES 12378-PeCDF	32.09	9.94E+07	1.48	Y	0.89	0.83	-6%
ES 23478-PeCDF	33.42	1.01E+08	1.48	Y	0.91	0.84	-7%
ES 123478-HxCDF	37.30	8.03E+07	0.53	Y	1.53	1.47	-4%
ES 123678-HxCDF	37.47	9.03E+07	0.53	Y	1.73	1.65	-4%
ES 234678-HxCDF	38.25	8.37E+07	0.54	Y	1.61	1.53	-5%
ES 123789-HxCDF	39.36	7.18E+07	0.54	Y	1.39	1.31	-6%
ES 1234678-HpCDF	41.35	6.14E+07	0.45	Y	1.20	1.12	-6%
ES 1234789-HpCDF	43.23	5.63E+07	0.45	Y	1.07	1.03	-4%
ES OCDF	46.60	1.05E+08	0.91	Y	1.04	0.96	-8%

Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 12:31 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS1		UTP: 18-Sep-2013 16:10 MDC			Checkcode: 542-604		
Sample ID: 11012012A		Report: 19 Sep 2013 09:11 MC			Datafile: 130918P1-03		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
JS 1234-TCDD	26.80	7.56E+07	0.80	Y	-	-	-
JS 1234-TCDF	25.03	1.20E+08	0.71	Y	-	-	-
JS 123467-HxCDD	38.83	2.73E+07	1.18	Y	-	-	-
CS 37C1-2378-TCDD	27.57	4.08E+05	n/a	-	1.13	1.08	-5%
CS 12347-PeCDD	33.23	6.64E+07	1.66	Y	0.88	0.88	0%
CS 12346-PeCDF	31.47	1.09E+08	1.50	Y	0.90	0.91	1%
CS 123469-HxCDF	37.84	7.69E+07	0.54	Y	1.40	1.41	1%
CS 1234689-HpCDF	41.90	5.84E+07	0.45	Y	1.09	1.07	-2%
SS 37C1-2378-TCDD	27.57	4.08E+05	n/a	-	1.11	1.07	-4%
SS 12347-PeCDD	33.23	6.64E+07	1.66	Y	0.96	1.02	6%
SS 12346-PeCDF	31.47	1.09E+08	1.50	Y	1.02	1.10	8%
SS 123469-HxCDF	37.84	7.69E+07	0.54	Y	0.81	0.85	5%
SS 1234689-HpCDF	41.90	5.84E+07	0.45	Y	0.91	0.95	4%
AS 1368-TCDD	23.44	7.60E+07	0.81	Y	1.01	1.01	0%
AS 1368-TCDF	21.24	1.46E+08	0.76	Y	1.22	1.22	0%
FS 1278-TCDD	27.93	8.98E+07	0.79	Y	1.18	1.18	0%
FS 12478-PeCDD	32.38	7.27E+07	1.63	Y	1.06	1.12	5%
FS 123468-HxCDD	37.22	6.98E+07	1.16	Y	1.26	1.29	2%
FS 1234679-HpCDD	41.72	6.28E+07	1.08	Y	1.12	1.17	4%
TS 1378-TCDD	25.67	8.51E+07	0.81	Y	1.11	1.12	1%
OCDD-a	NotFnd				0.07		
OCDF-a	NotFnd				0.06		

SGS-AP ID: CS1
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

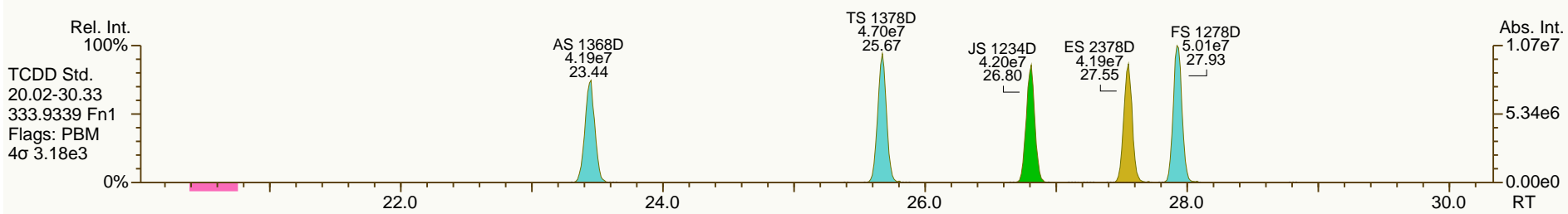
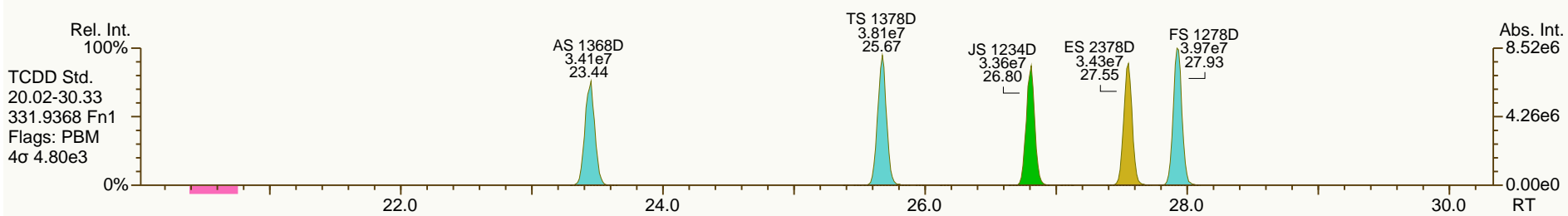
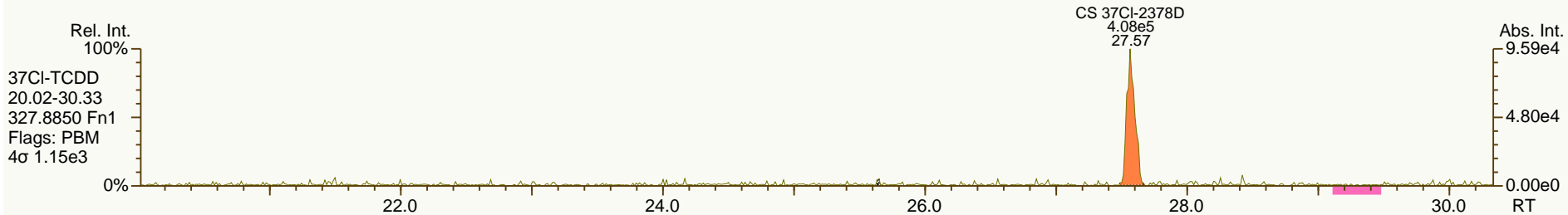
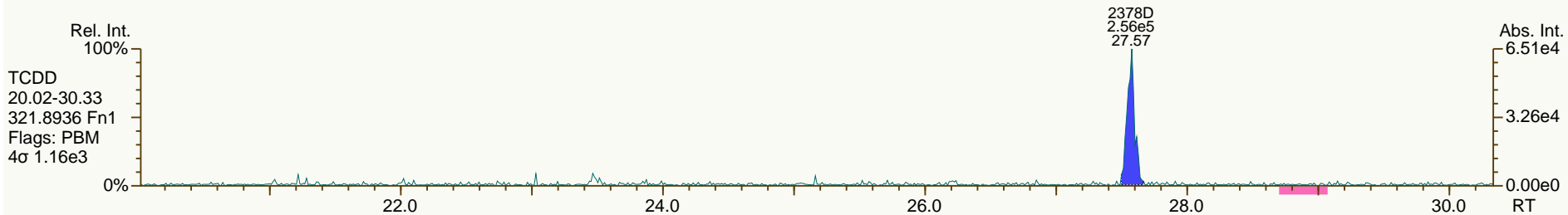
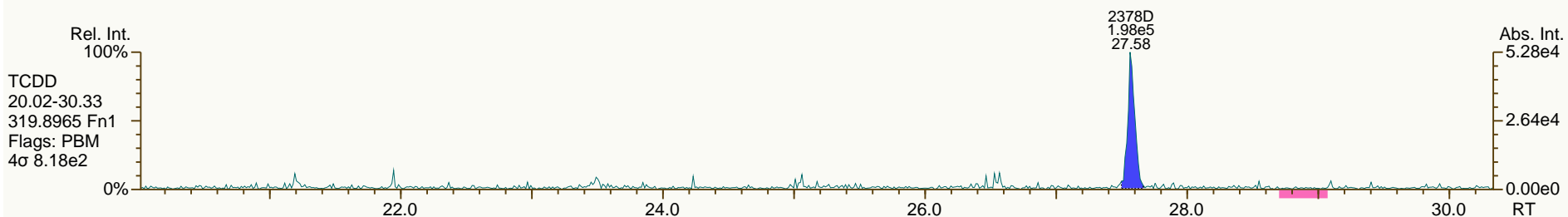
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 User: MDC Datafile: 130918P1-03



SGS-AP ID: CS1
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

Acq: 18-SEP-2013 12:31:56
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SGS-AP ID: CS1
Instr: AutoSpec-Ultima MM1

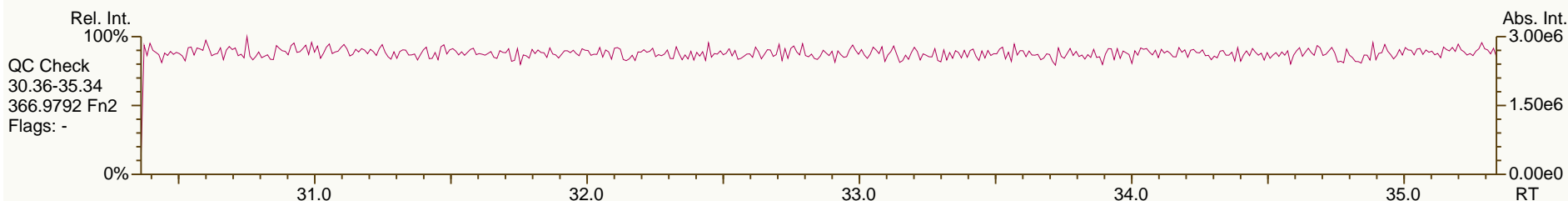
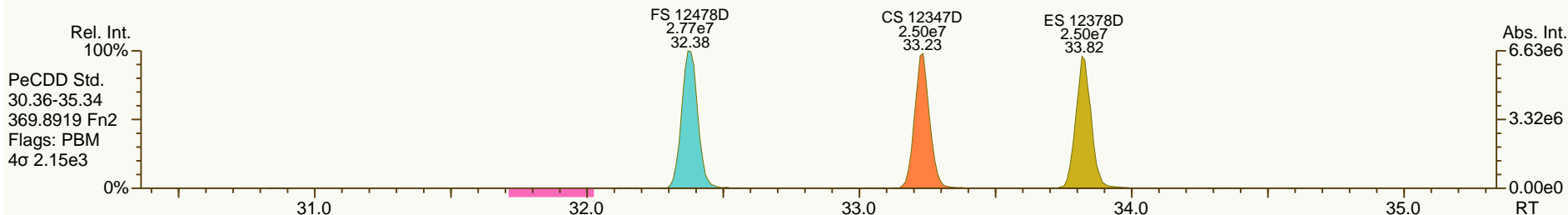
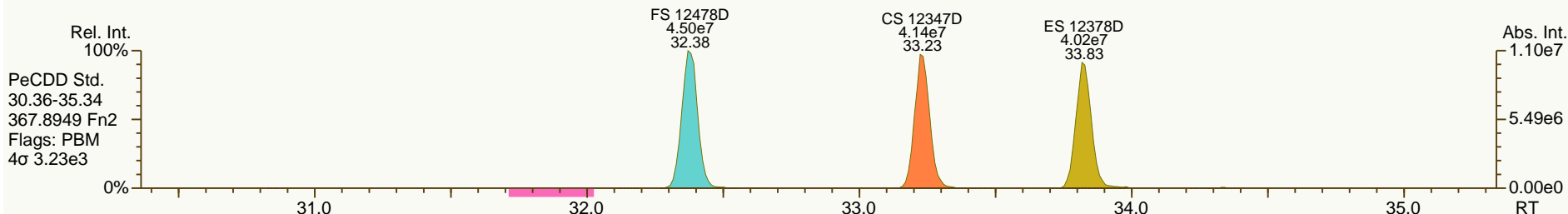
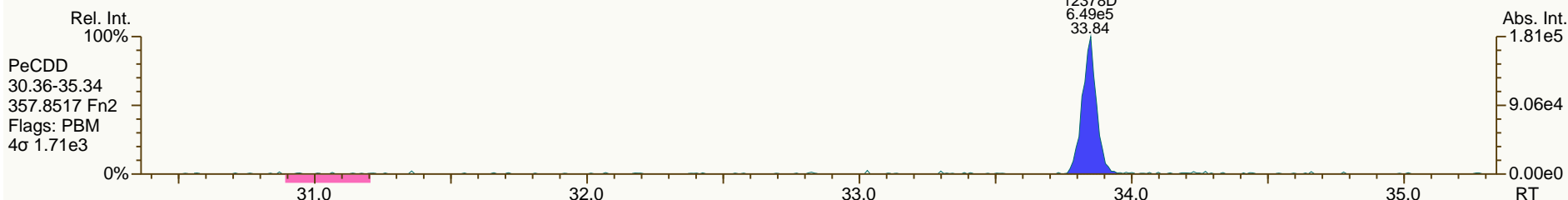
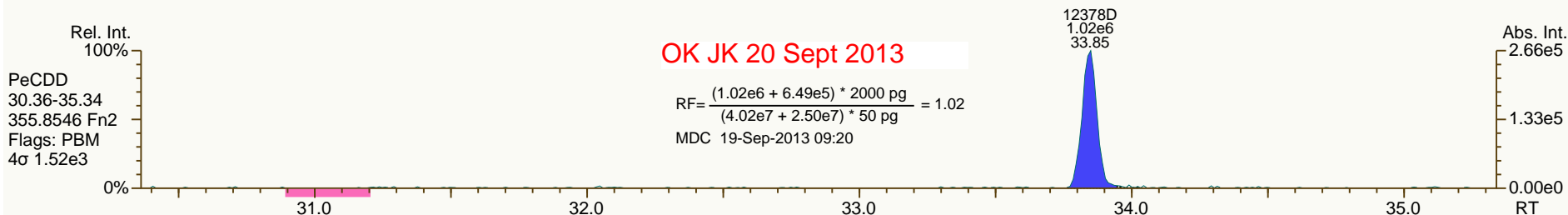
Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

Acq: 18-SEP-2013 12:31:56
User: MDC Datafile: 130918P1-03

OK JK 20 Sept 2013

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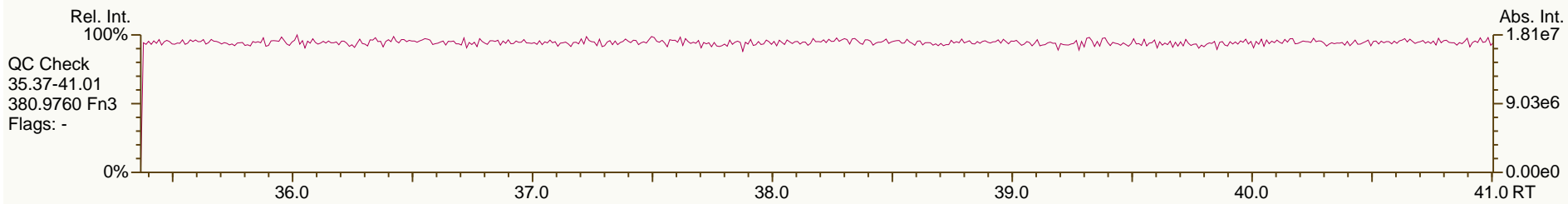
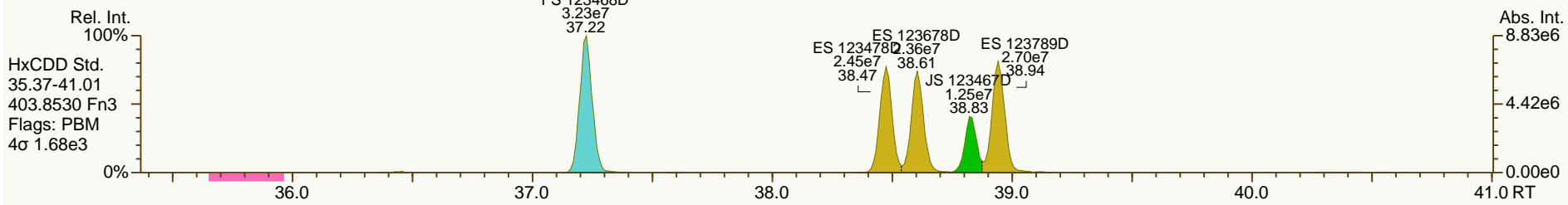
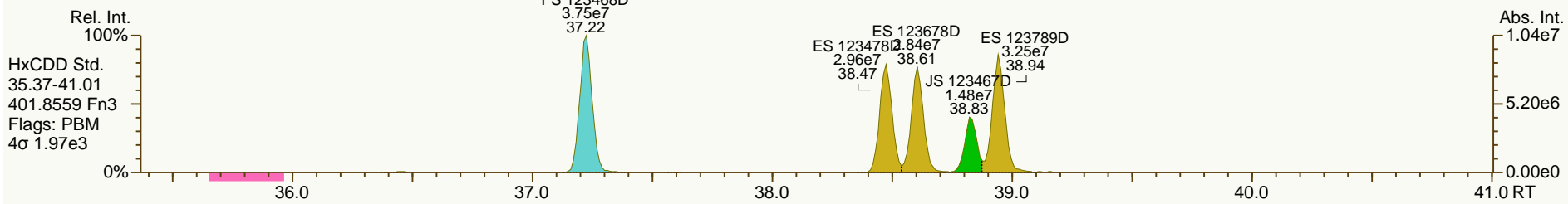
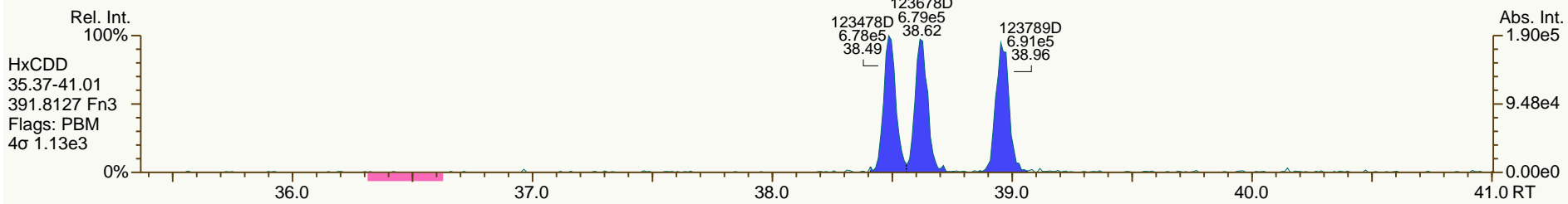
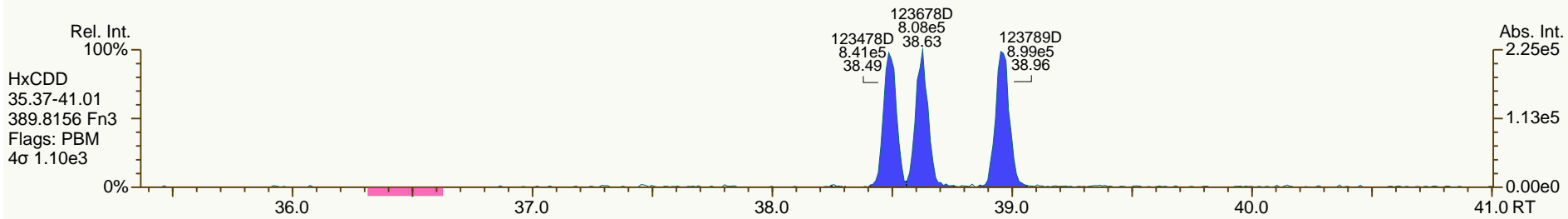
MDC 19-Sep-2013 09:20



SGS-AP ID: CS1
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

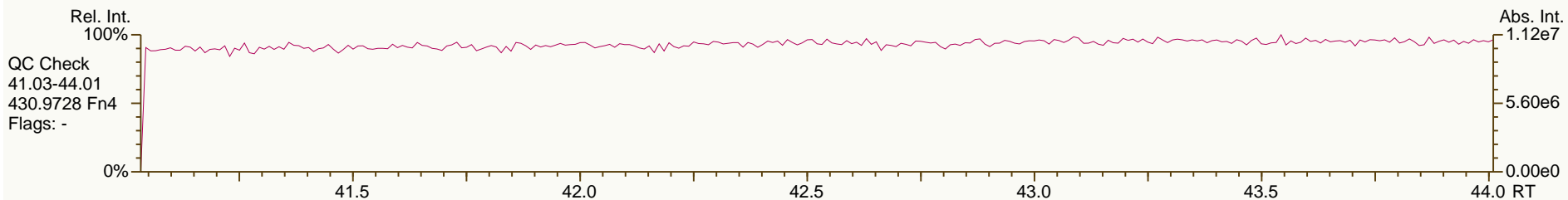
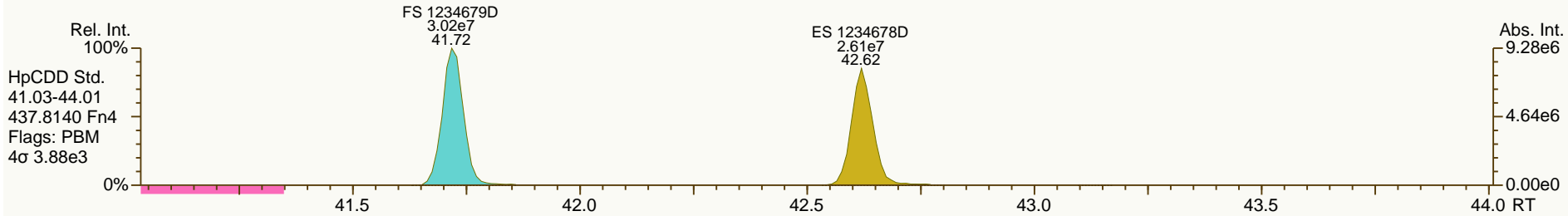
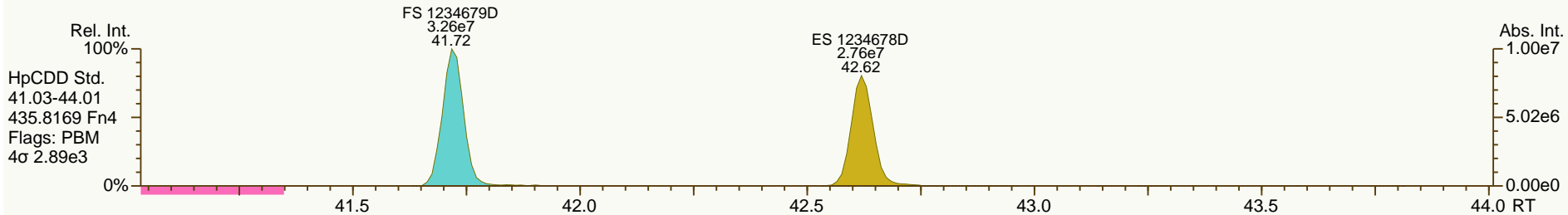
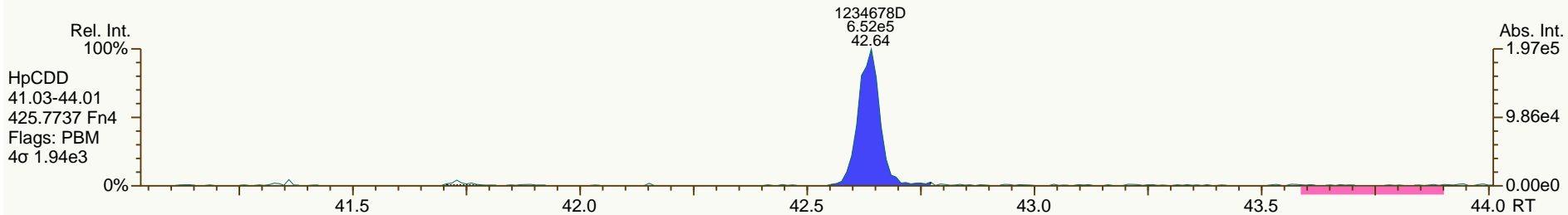
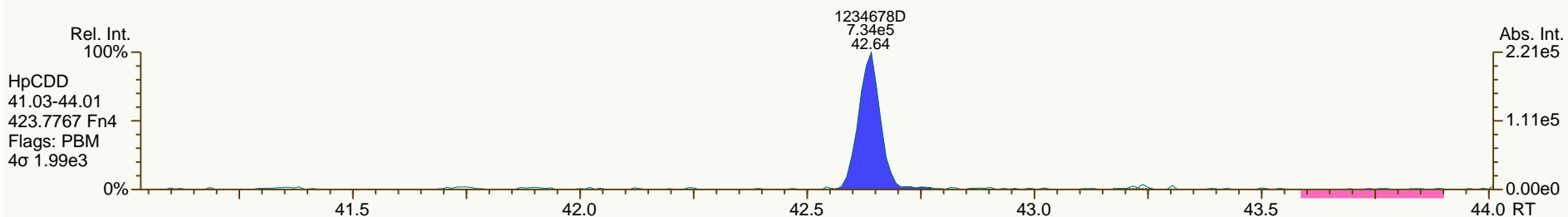
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 User: MDC Datafile: 130918P1-03



SGS-AP ID: CS1
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

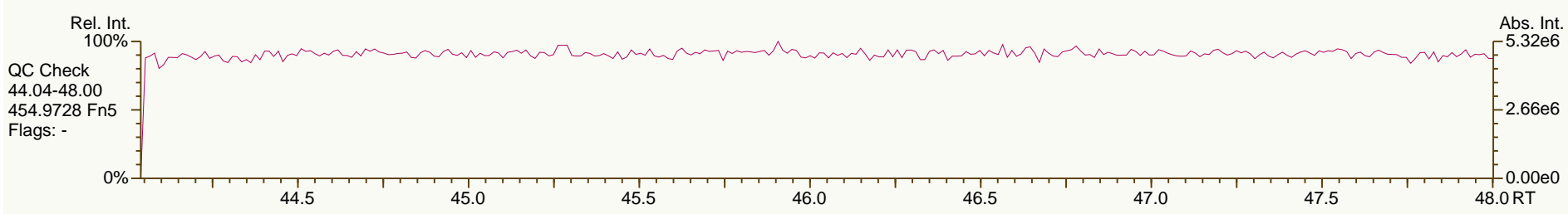
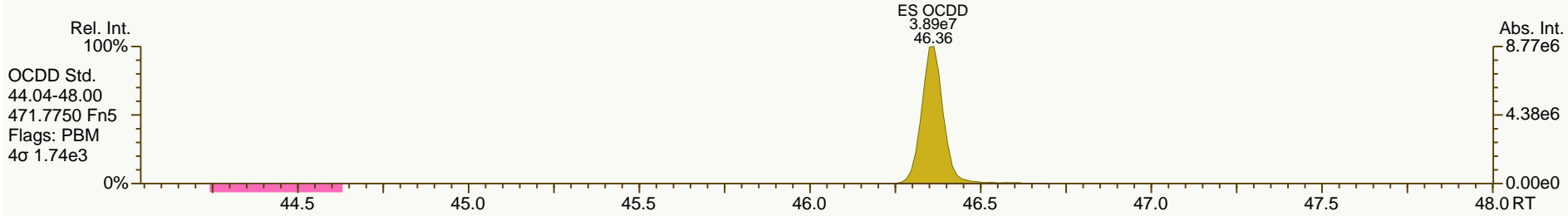
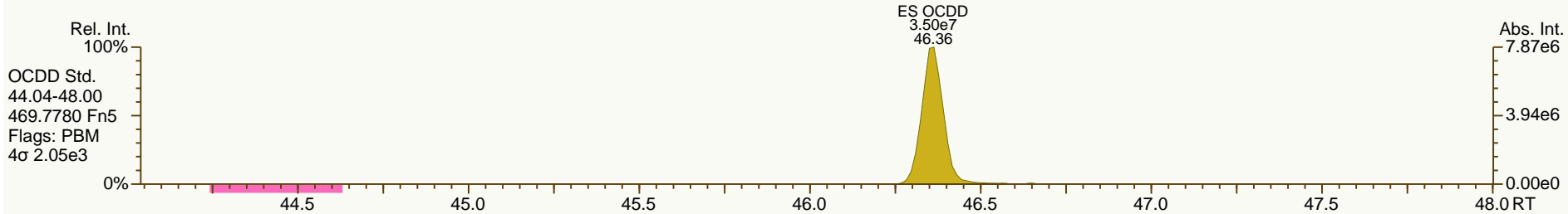
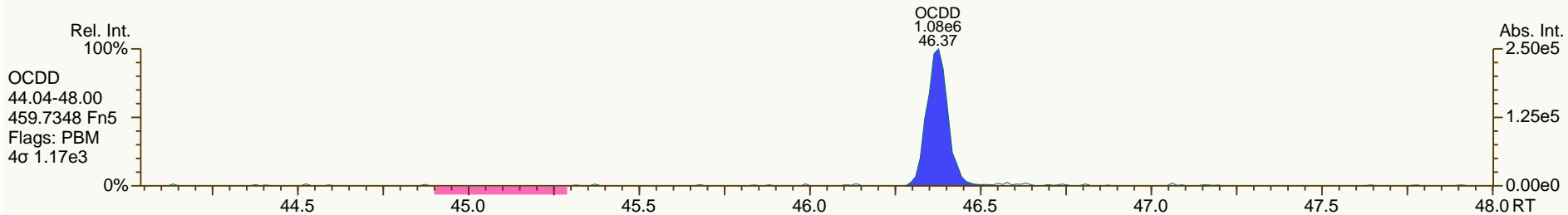
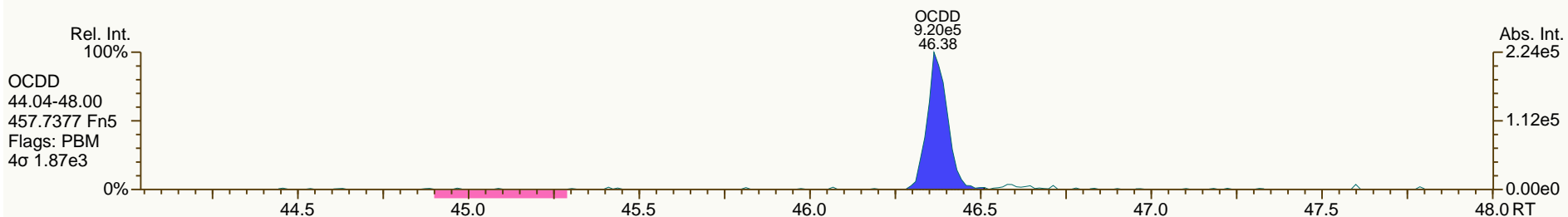
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SGS-AP ID: CS1
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

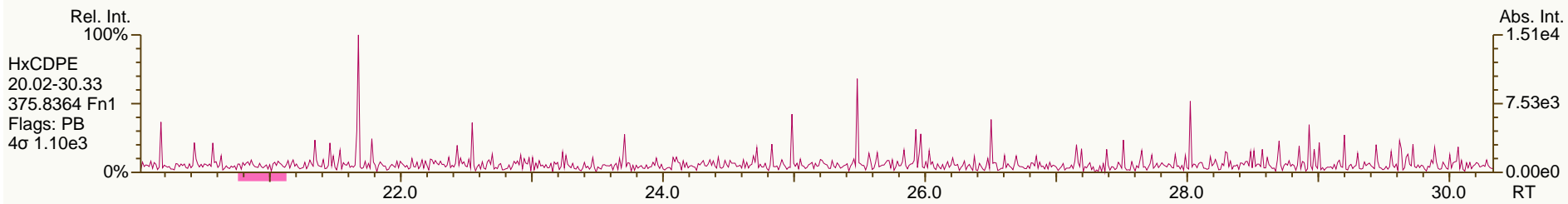
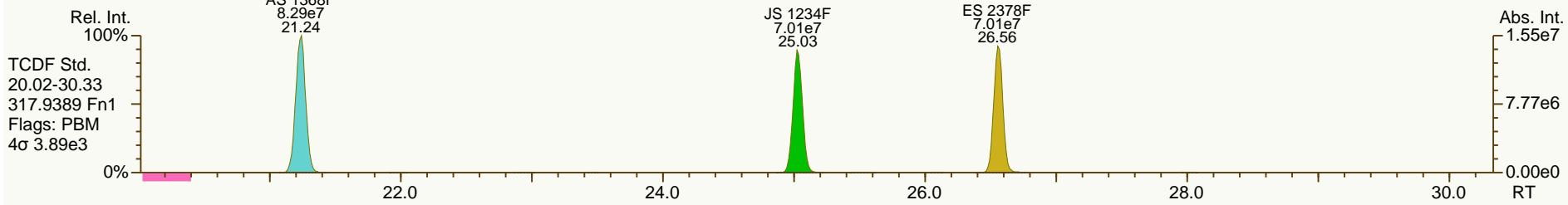
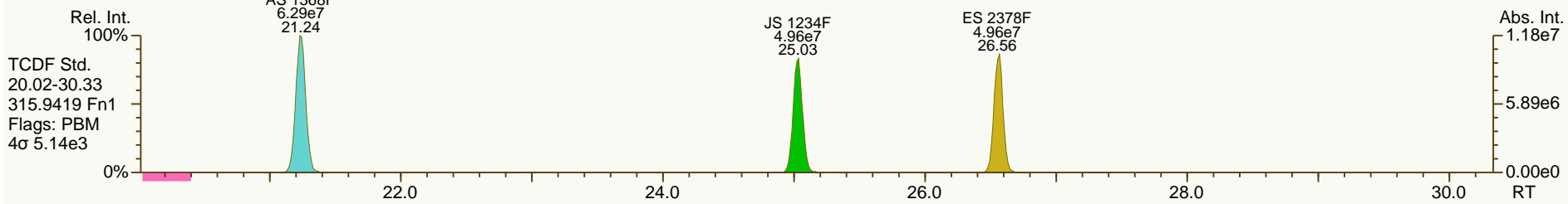
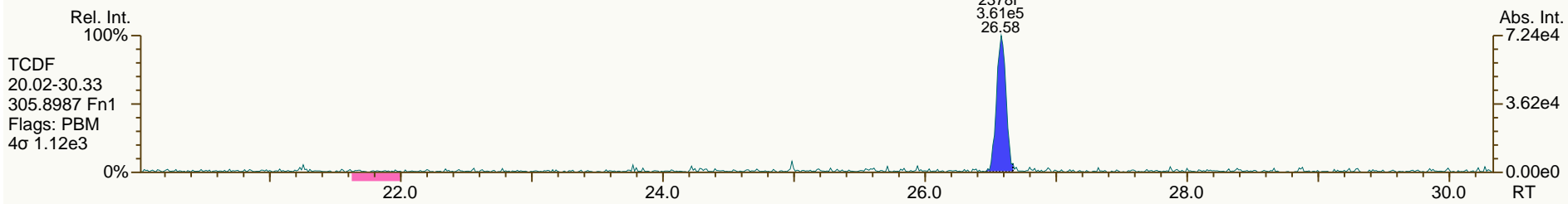
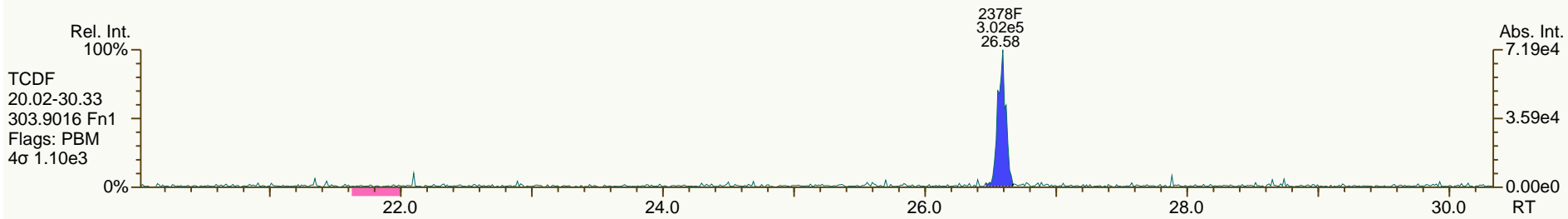
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SGS-AP ID: CS1
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

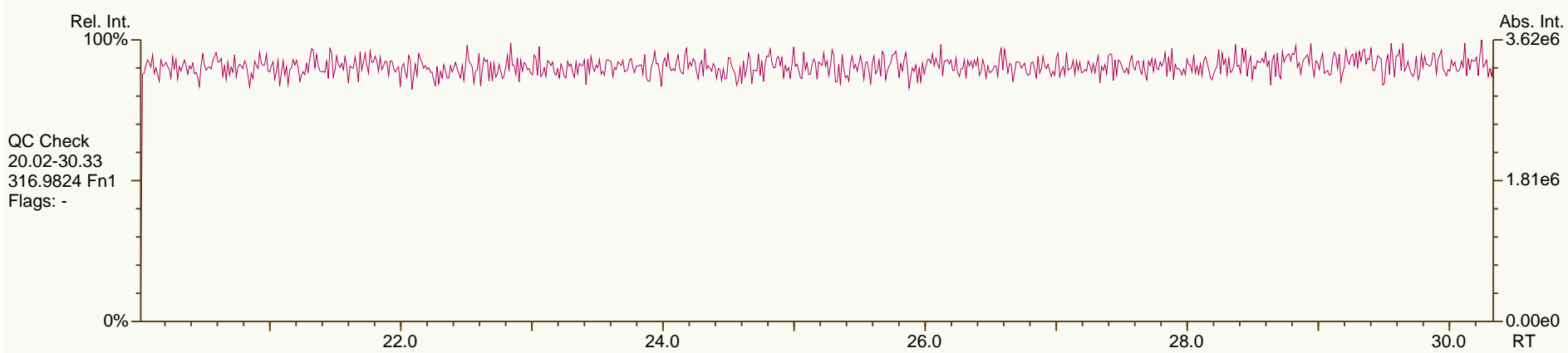
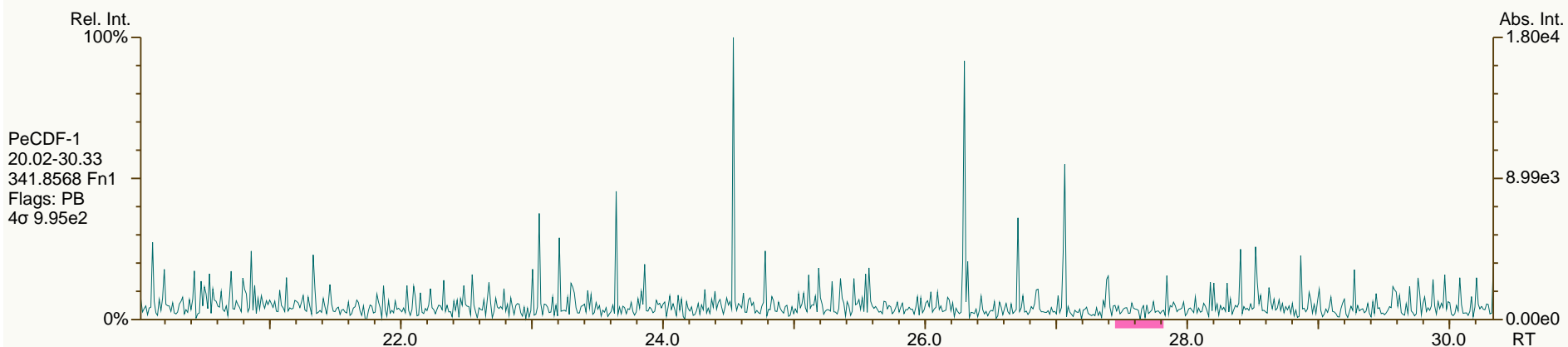
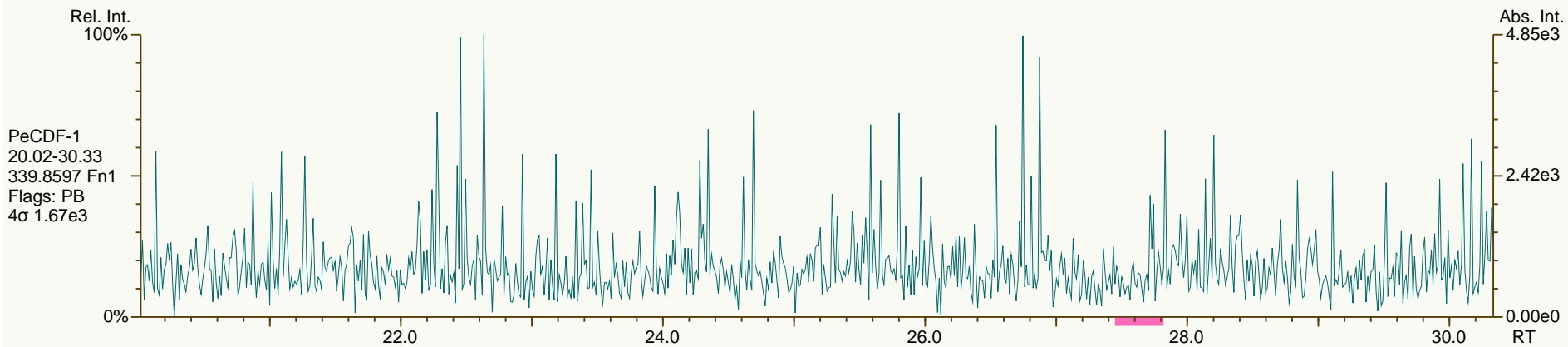
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SGS-AP ID: CS1
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

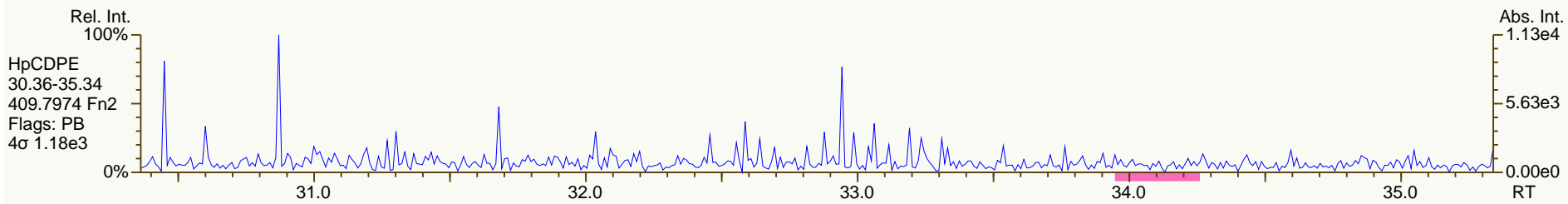
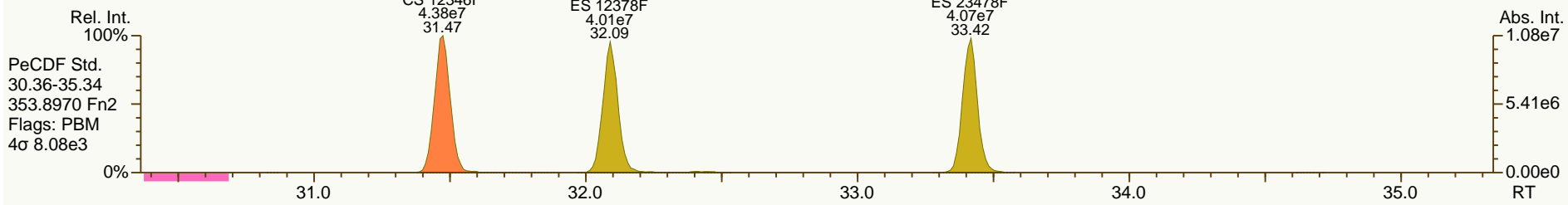
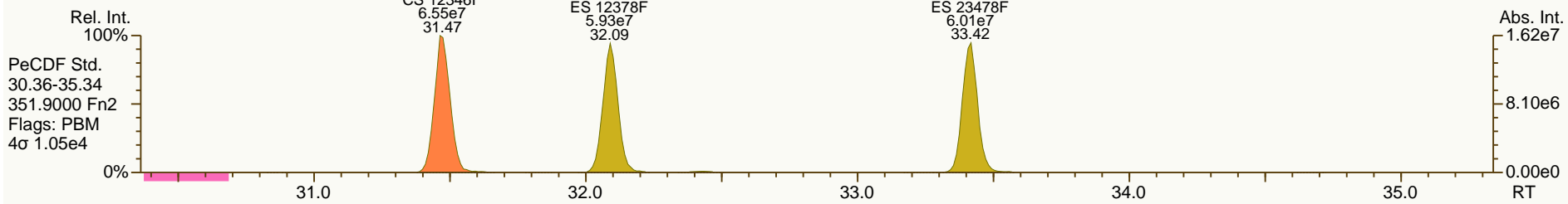
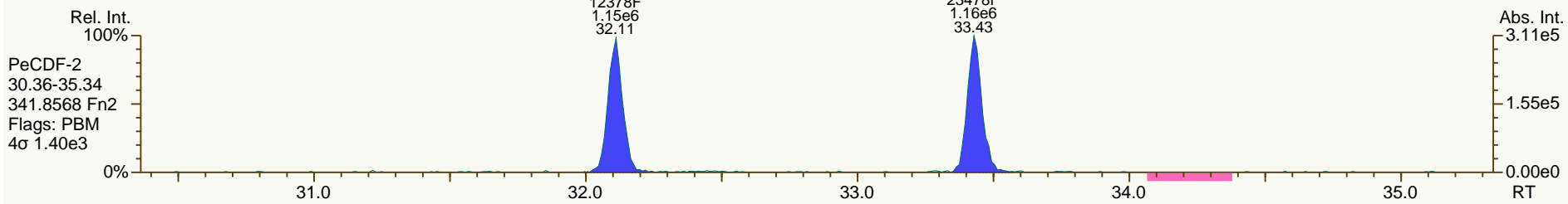
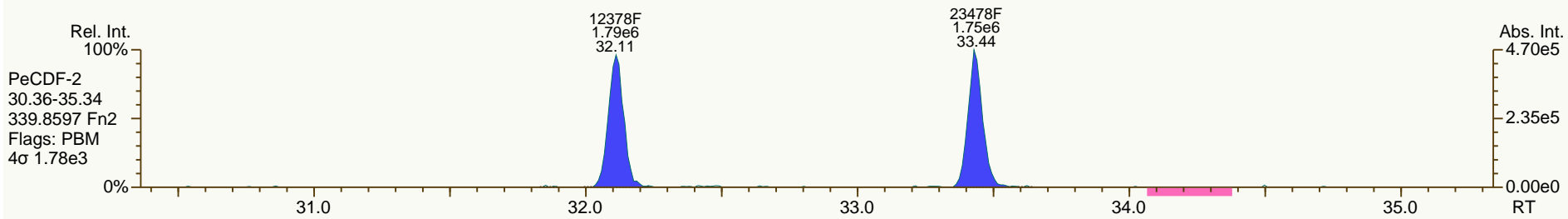
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SGS-AP ID: CS1
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

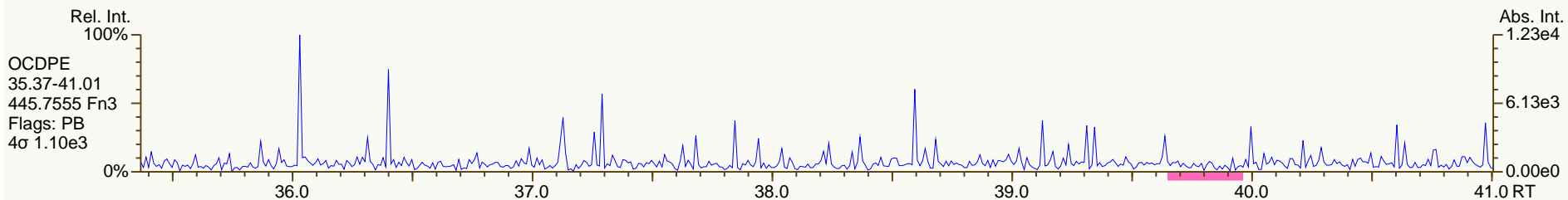
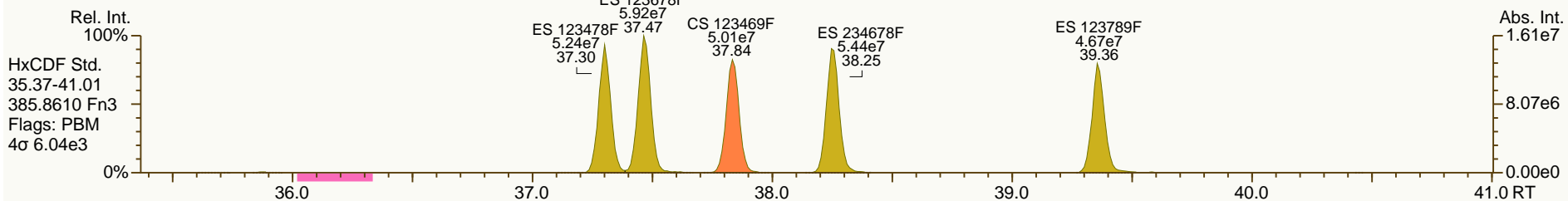
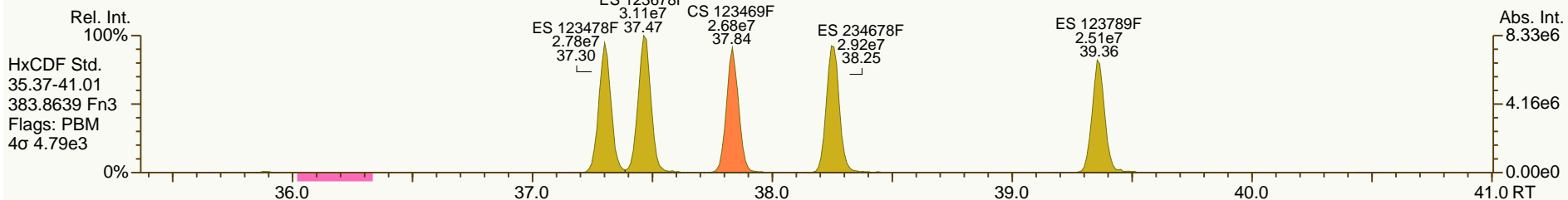
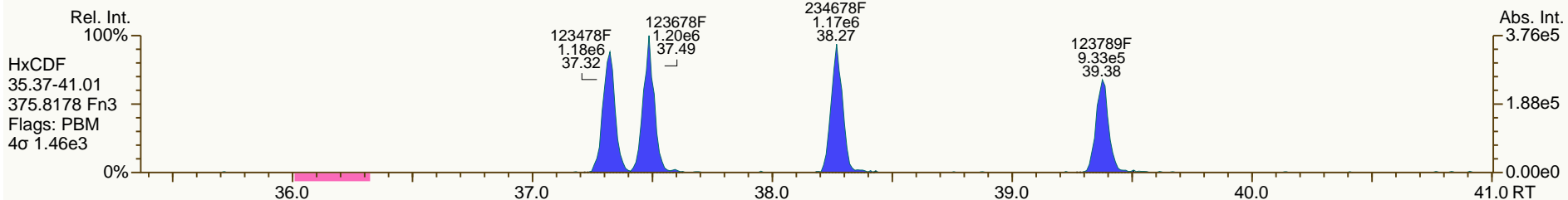
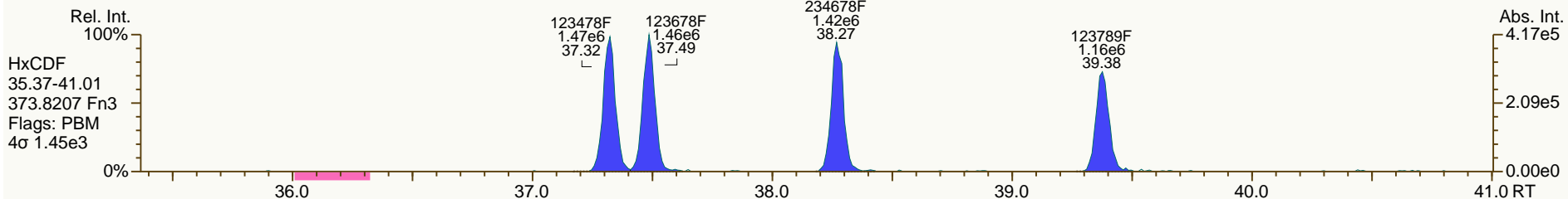
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SGS-AP ID: CS1
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

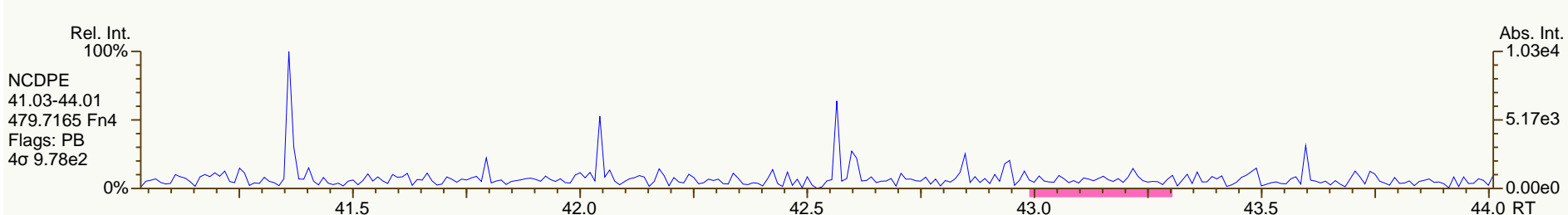
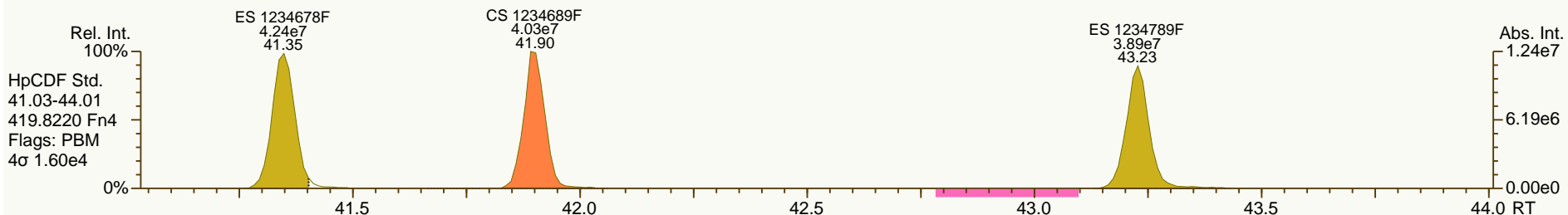
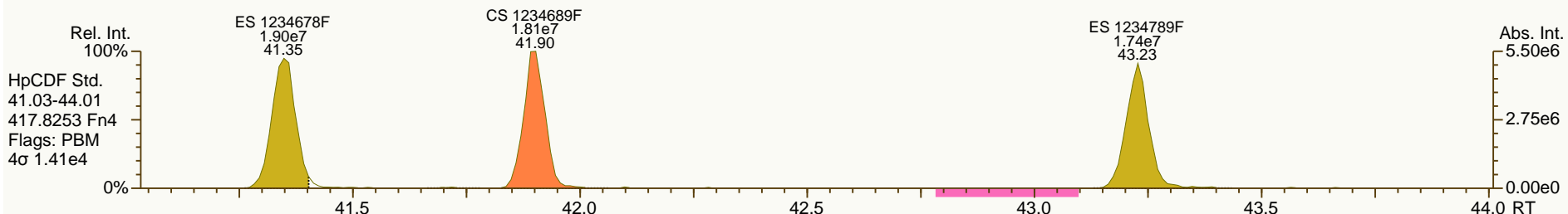
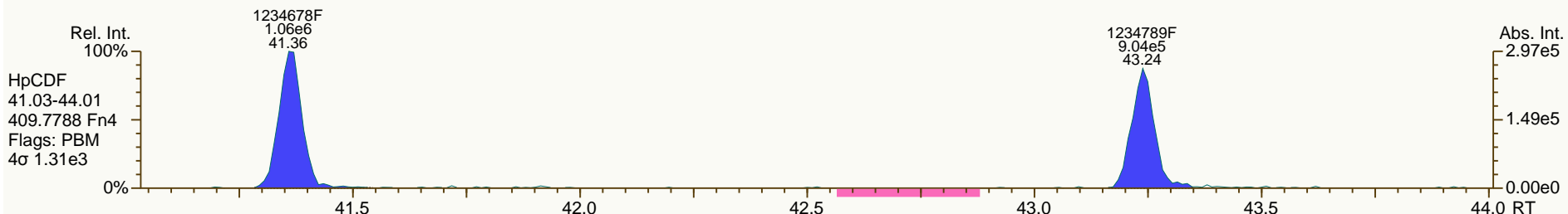
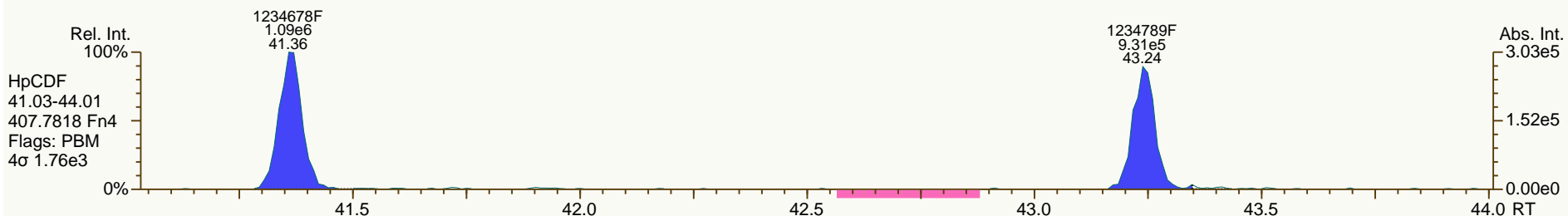
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SGS-AP ID: CS1
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Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

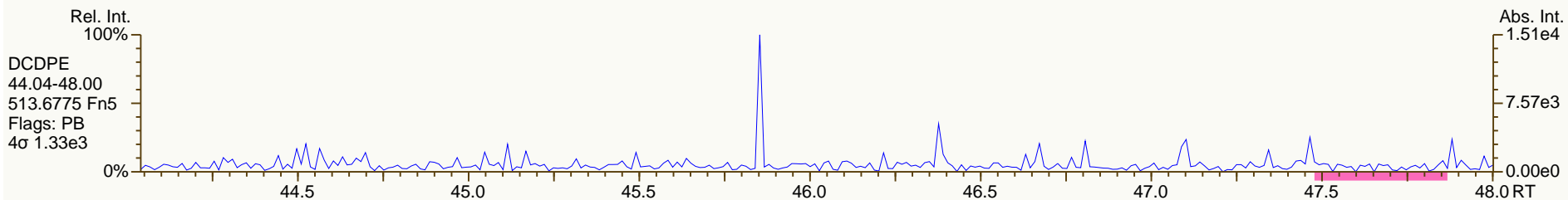
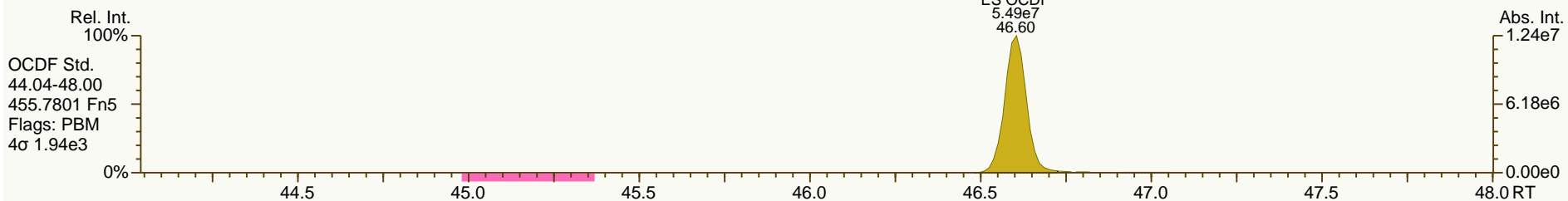
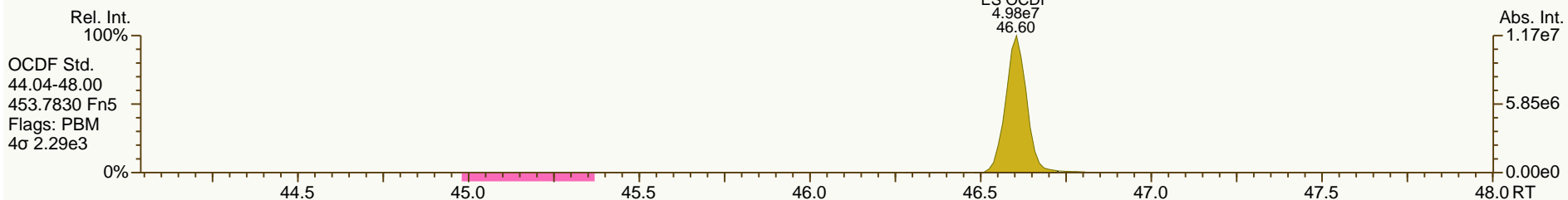
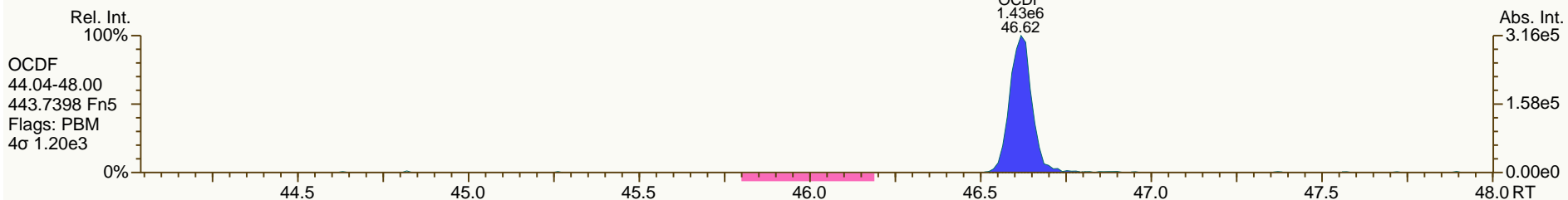
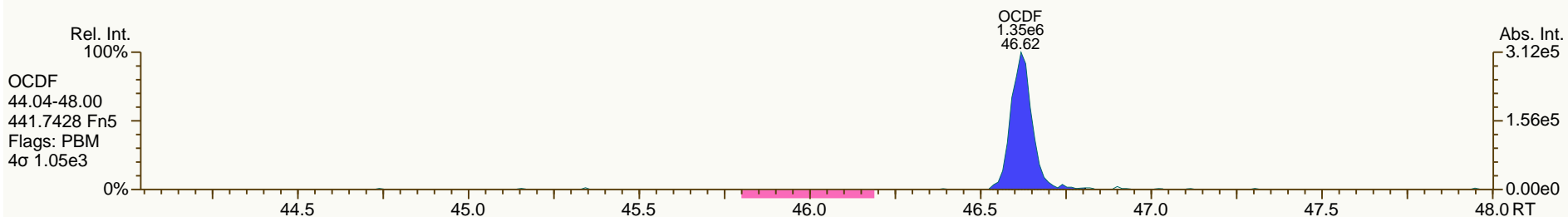
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SGS-AP ID: CS1
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

Acq: 18-SEP-2013 12:31:56
 User: MDC Datafile: 130918P1-03



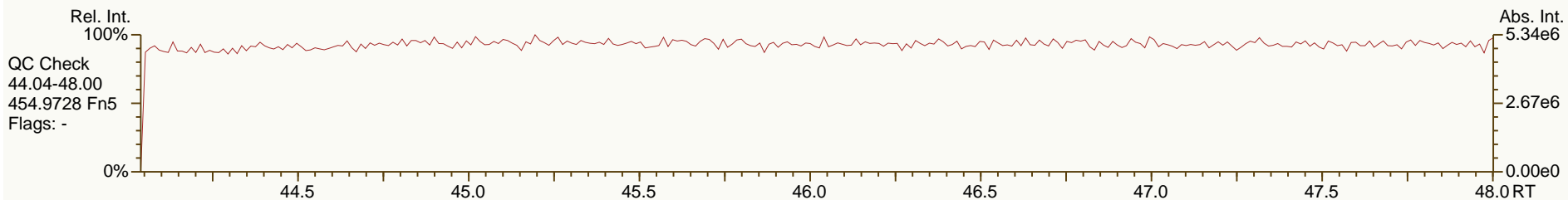
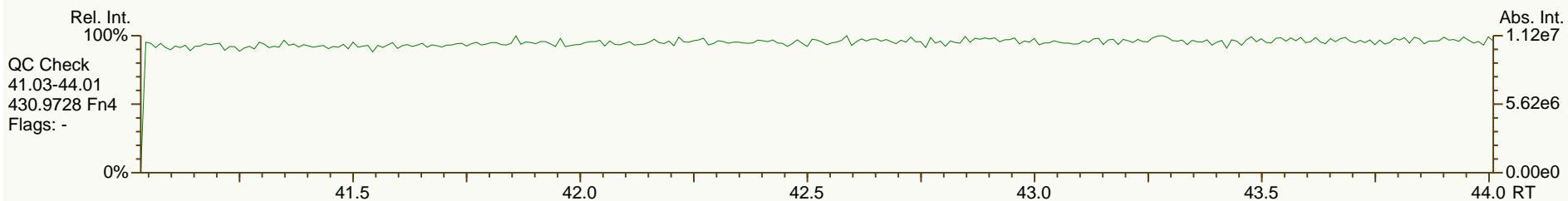
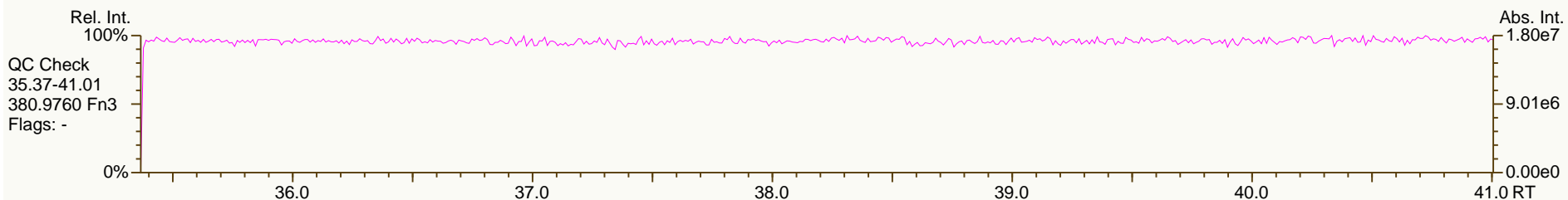
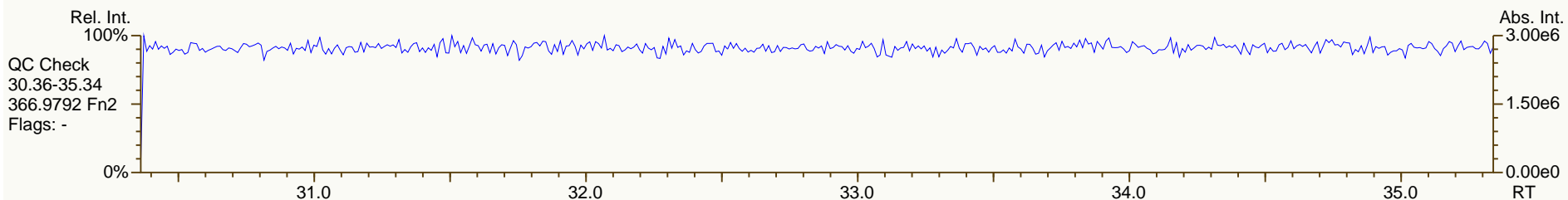
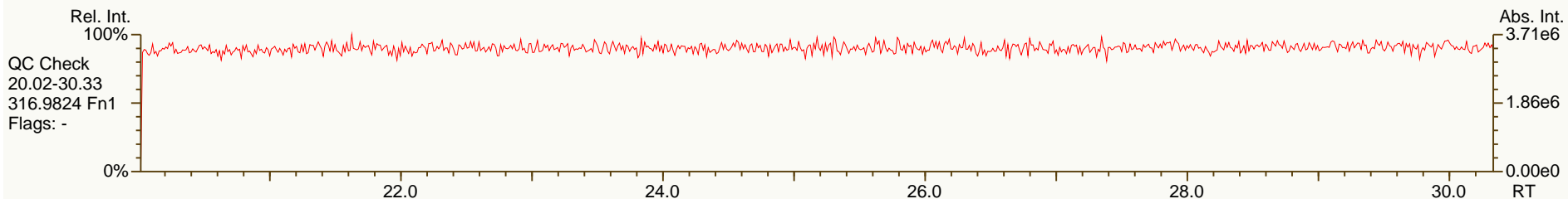
Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 13:24 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS2		UTP: 18-Sep-2013 14:25 MDC			Checkcode: 013-506-QDR		
Sample ID: 11012012A		Report: 19 Sep 2013 09:11 MC			Datafile: 130918P1-04		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.56	1.71E+06	0.86	Y	1.18	1.19	0%
12378-PeCDD	33.84	6.44E+06	1.66	Y	1.07	1.04	-3%
123478-HxCDD	38.49	5.78E+06	1.25	Y	1.19	1.12	-6%
123678-HxCDD	38.62	5.79E+06	1.27	Y	1.19	1.20	1%
123789-HxCDD	38.96	5.99E+06	1.29	Y	1.12	1.10	-1%
1234678-HpCDD	42.64	5.35E+06	1.03	Y	1.08	1.06	-3%
OCDD	46.38	7.69E+06	0.90	Y	1.14	1.12	-2%
2378-TCDF	26.57	2.55E+06	0.78	Y	1.10	1.12	2%
12378-PeCDF	32.10	1.09E+07	1.54	Y	1.17	1.13	-3%
23478-PeCDF	33.43	1.11E+07	1.57	Y	1.14	1.09	-5%
123478-HxCDF	37.31	9.87E+06	1.24	Y	1.34	1.30	-3%
123678-HxCDF	37.48	1.03E+07	1.25	Y	1.23	1.21	-2%
234678-HxCDF	38.27	9.85E+06	1.24	Y	1.26	1.23	-3%
123789-HxCDF	39.37	8.10E+06	1.26	Y	1.23	1.20	-2%
1234678-HpCDF	41.36	8.04E+06	1.04	Y	1.42	1.35	-5%
1234789-HpCDF	43.24	7.08E+06	1.03	Y	1.39	1.35	-3%
OCDF	46.62	1.05E+07	0.91	Y	1.11	1.06	-4%
ES 2378-TCDD	27.54	7.23E+07	0.80	Y	1.02	1.00	-3%
ES 12378-PeCDD	33.82	6.20E+07	1.58	Y	0.92	0.85	-7%
ES 123478-HxCDD	38.47	5.16E+07	1.22	Y	1.02	0.99	-3%
ES 123678-HxCDD	38.60	4.82E+07	1.18	Y	1.01	0.93	-8%
ES 123789-HxCDD	38.94	5.43E+07	1.18	Y	1.14	1.05	-8%
ES 1234678-HpCDD	42.62	5.07E+07	1.07	Y	1.02	0.98	-5%
ES OCDD	46.36	6.86E+07	0.88	Y	0.72	0.66	-8%
ES 2378-TCDF	26.55	1.14E+08	0.70	Y	1.01	0.97	-4%
ES 12378-PeCDF	32.08	9.63E+07	1.49	Y	0.89	0.82	-8%
ES 23478-PeCDF	33.41	1.02E+08	1.50	Y	0.91	0.86	-5%
ES 123478-HxCDF	37.30	7.56E+07	0.54	Y	1.53	1.46	-5%
ES 123678-HxCDF	37.46	8.52E+07	0.54	Y	1.73	1.64	-5%
ES 234678-HxCDF	38.25	8.04E+07	0.53	Y	1.61	1.55	-4%
ES 123789-HxCDF	39.36	6.74E+07	0.54	Y	1.39	1.30	-7%
ES 1234678-HpCDF	41.34	5.96E+07	0.45	Y	1.20	1.15	-4%
ES 1234789-HpCDF	43.22	5.23E+07	0.44	Y	1.07	1.01	-6%
ES OCDF	46.60	9.84E+07	0.89	Y	1.04	0.95	-9%

Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 13:24 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS2		UTP: 18-Sep-2013 14:25 MDC			Checkcode: 013-506		
Sample ID: 11012012A		Report: 19 Sep 2013 09:11 MC			Datafile: 130918P1-04		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
JS 1234-TCDD	26.80	7.26E+07	0.80	Y	-	-	-
JS 1234-TCDF	25.02	1.18E+08	0.71	Y	-	-	-
JS 123467-HxCDD	38.82	2.60E+07	1.17	Y	-	-	-
CS 37C1-2378-TCDD	27.56	1.55E+06	n/a	-	1.13	1.07	-5%
CS 12347-PeCDD	33.22	6.10E+07	1.58	Y	0.88	0.84	-4%
CS 12346-PeCDF	31.47	1.05E+08	1.50	Y	0.90	0.89	-1%
CS 123469-HxCDF	37.83	7.17E+07	0.53	Y	1.40	1.38	-1%
CS 1234689-HpCDF	41.90	5.70E+07	0.44	Y	1.09	1.10	0%
SS 37C1-2378-TCDD	27.56	1.55E+06	n/a	-	1.11	1.07	-4%
SS 12347-PeCDD	33.22	6.10E+07	1.58	Y	0.96	0.99	3%
SS 12346-PeCDF	31.47	1.05E+08	1.50	Y	1.02	1.09	6%
SS 123469-HxCDF	37.83	7.17E+07	0.53	Y	0.81	0.84	3%
SS 1234689-HpCDF	41.90	5.70E+07	0.44	Y	0.91	0.96	5%
AS 1368-TCDD	23.43	7.49E+07	0.79	Y	1.01	1.03	3%
AS 1368-TCDF	21.23	1.42E+08	0.76	Y	1.22	1.21	-1%
FS 1278-TCDD	27.92	8.45E+07	0.80	Y	1.18	1.17	-1%
FS 12478-PeCDD	32.37	6.92E+07	1.63	Y	1.06	1.12	5%
FS 123468-HxCDD	37.22	6.76E+07	1.18	Y	1.26	1.31	4%
FS 1234679-HpCDD	41.72	5.97E+07	1.07	Y	1.12	1.18	5%
TS 1378-TCDD	25.66	8.28E+07	0.81	Y	1.11	1.15	3%
OCDD-a	46.37	4.50E+05	2.26	Y	0.07	0.07	-3%
OCDF-a	46.61	5.78E+05	2.60	Y	0.06	0.06	-7%

SGS-AP ID: CS2
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

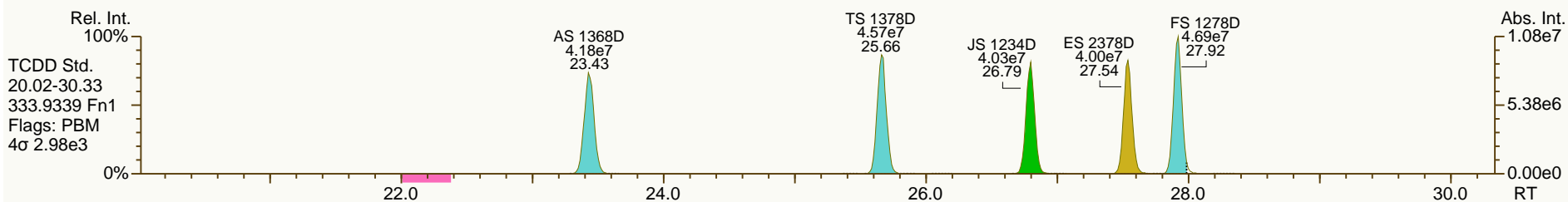
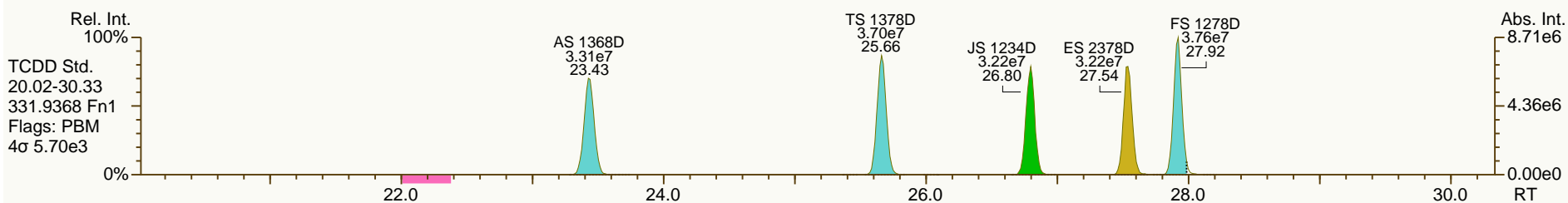
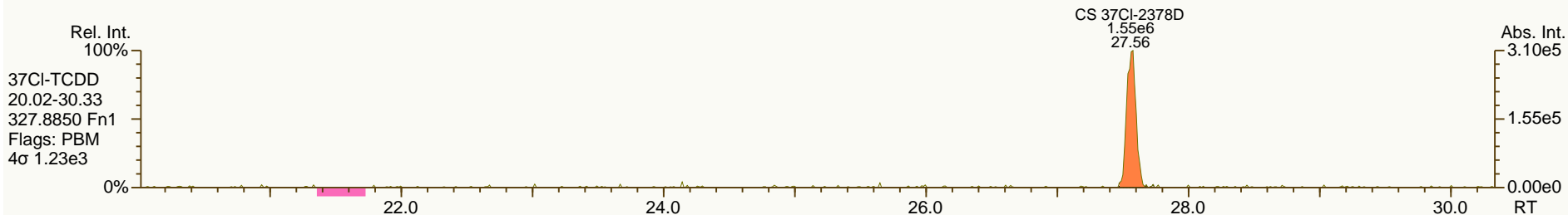
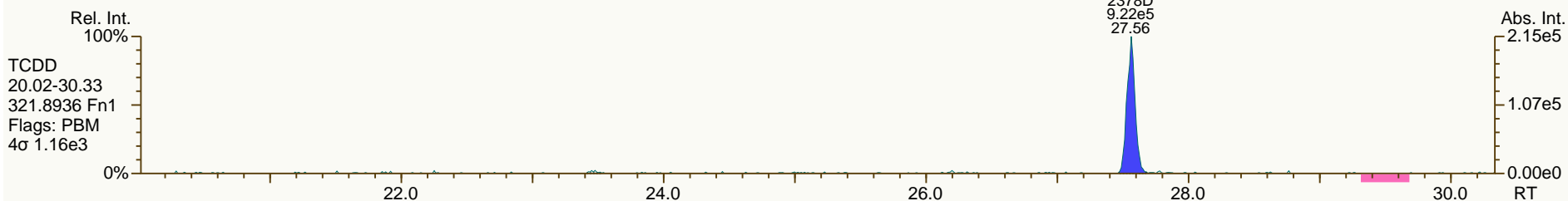
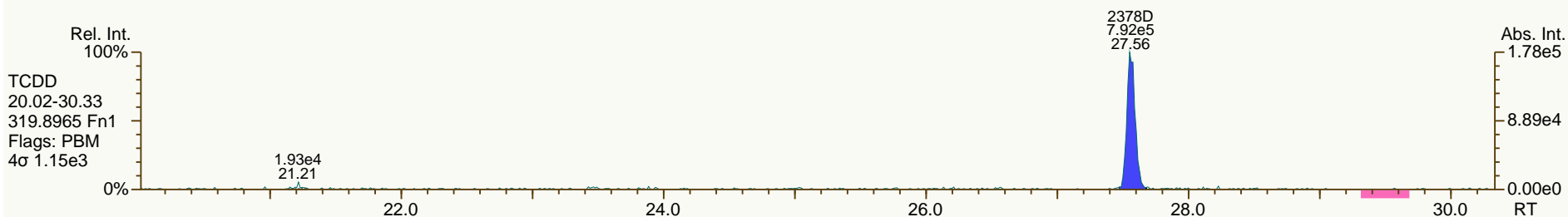
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SGS-AP ID: CS2
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

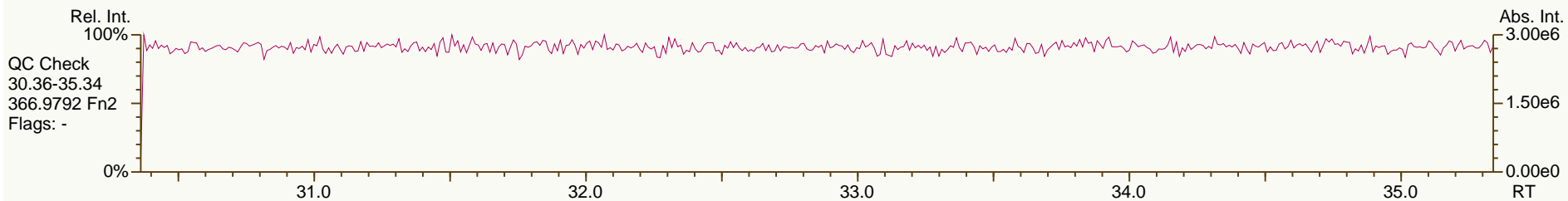
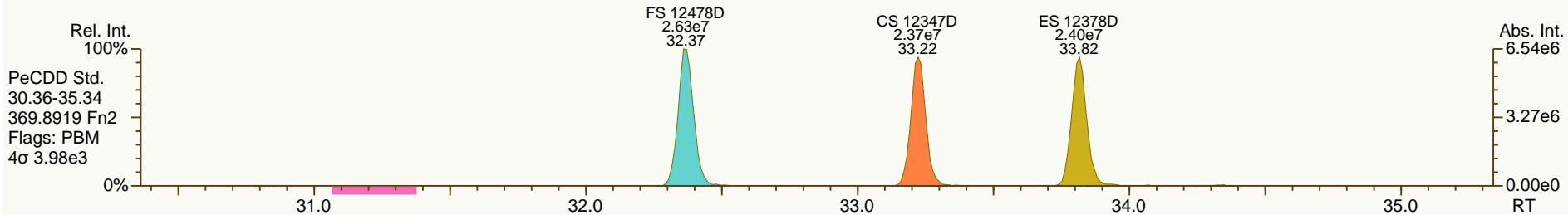
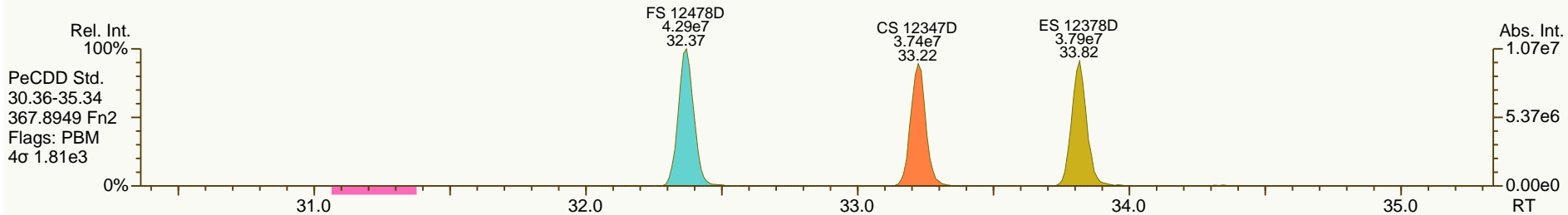
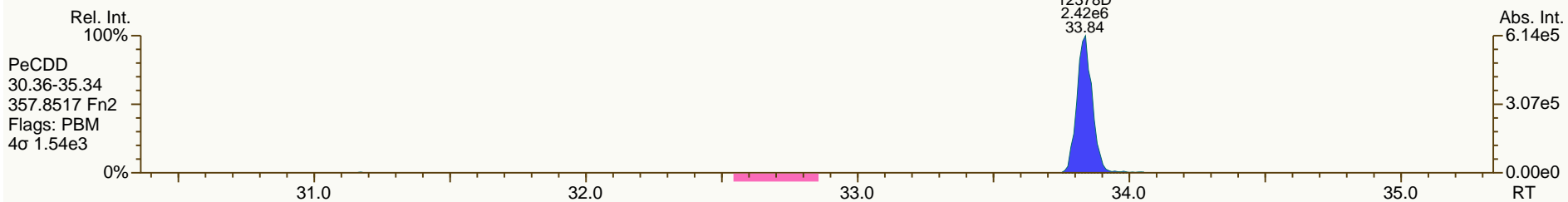
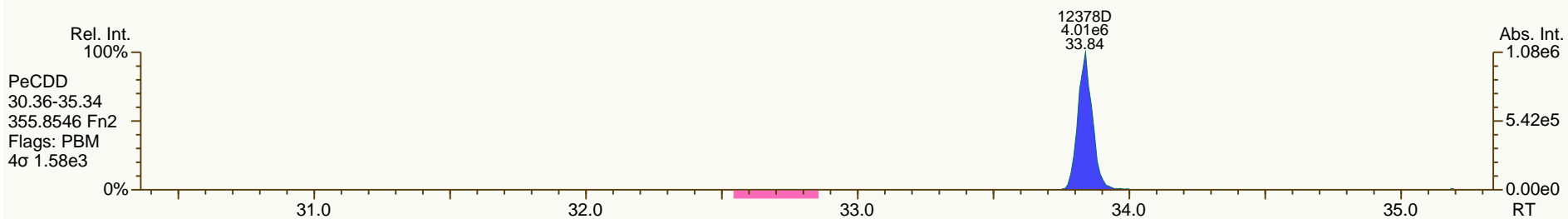
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SGS-AP ID: CS2
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

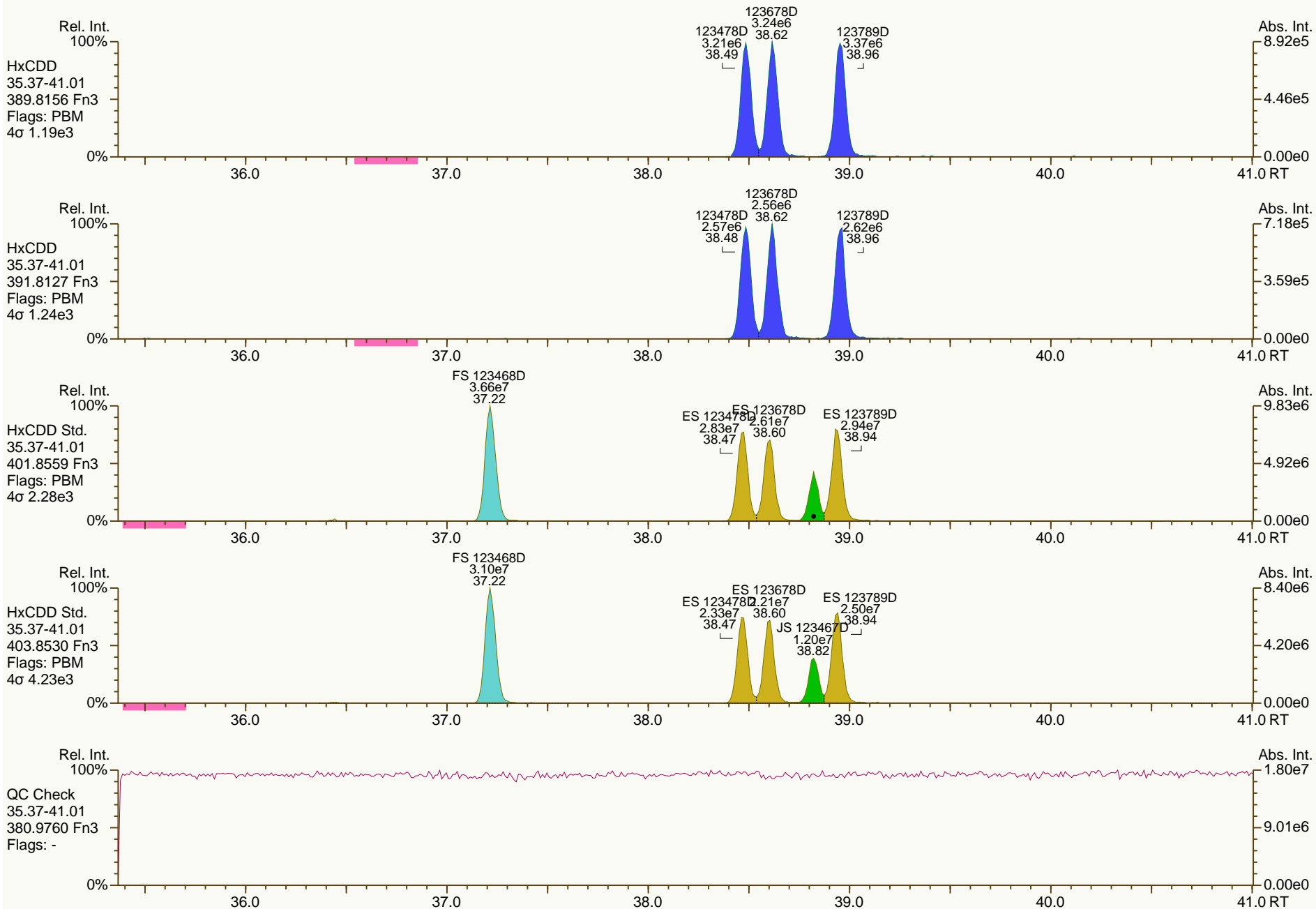
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SGS-AP ID: CS2
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

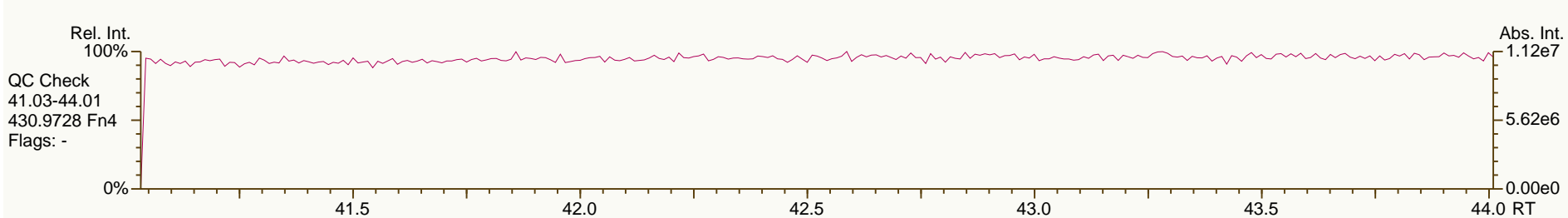
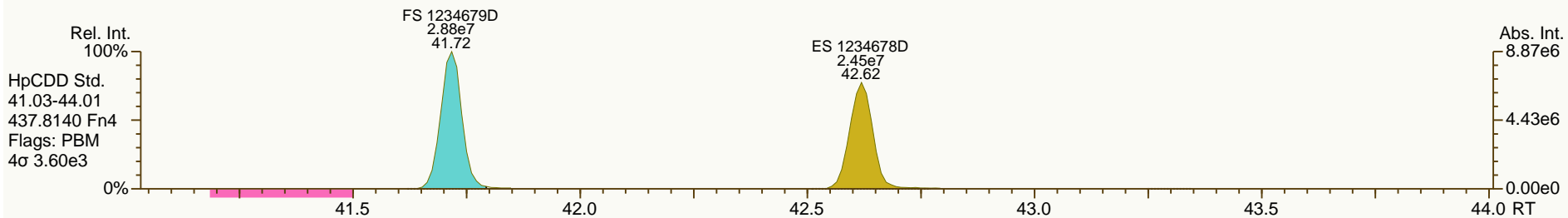
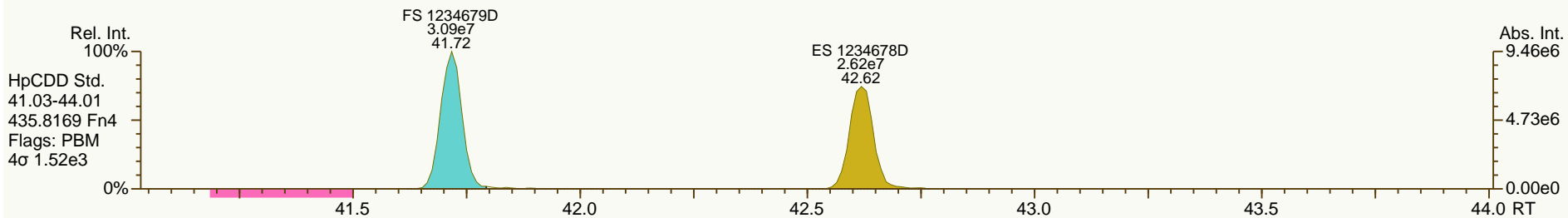
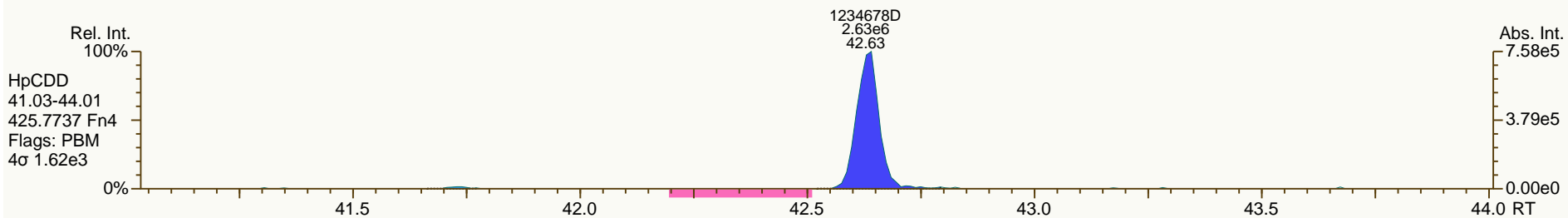
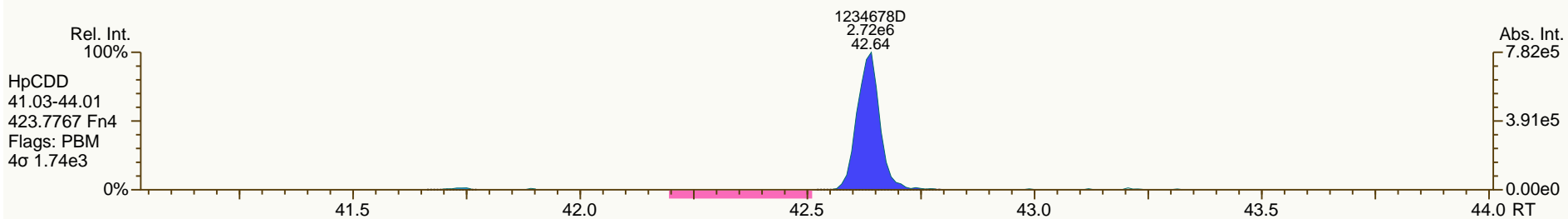
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SGS-AP ID: CS2
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

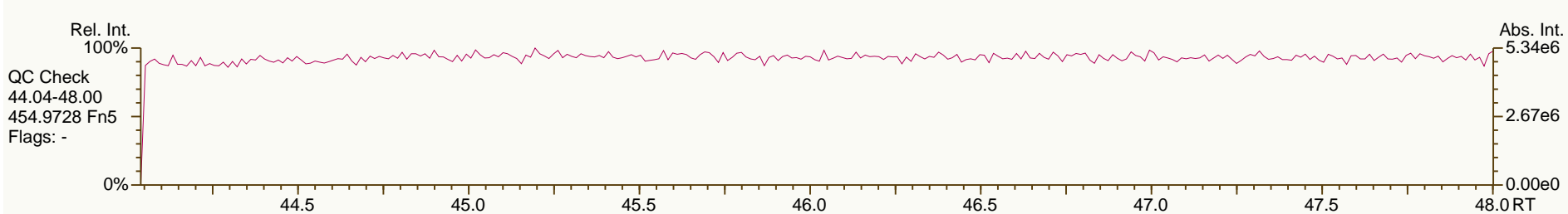
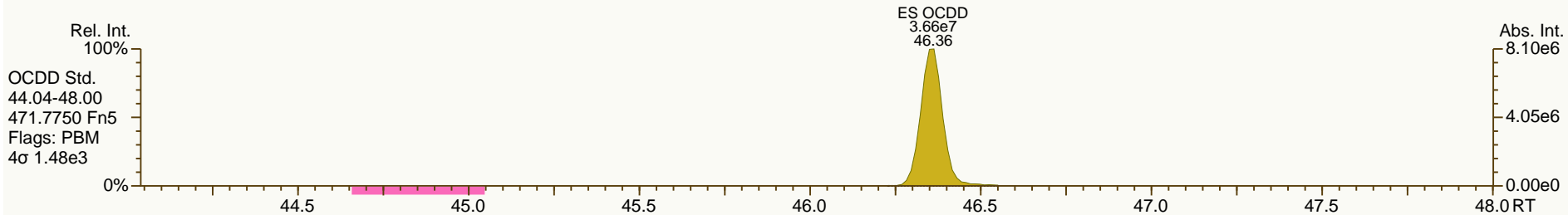
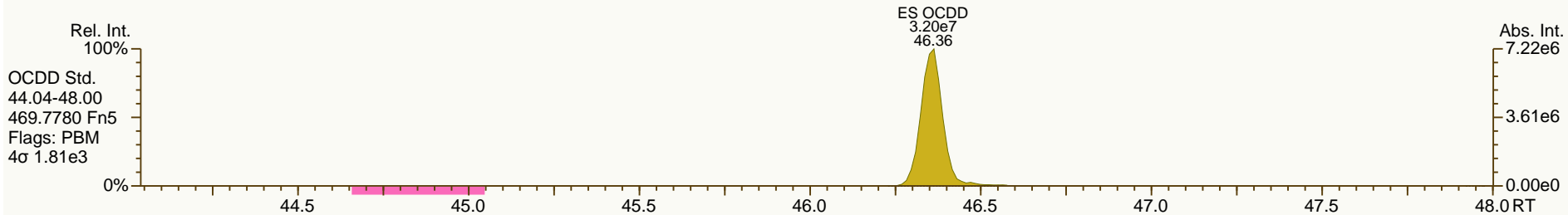
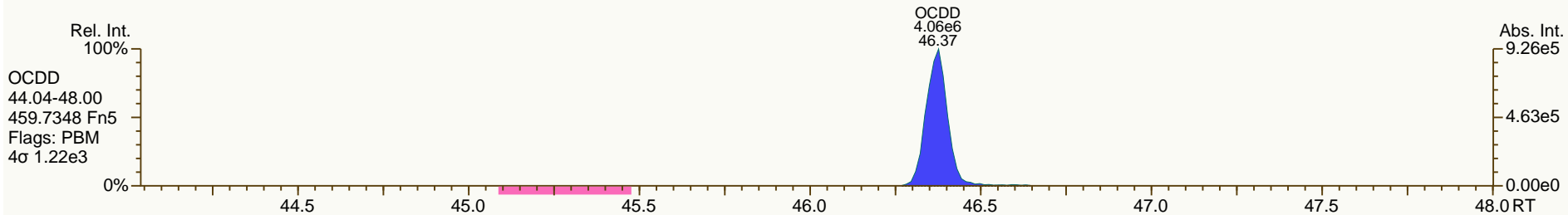
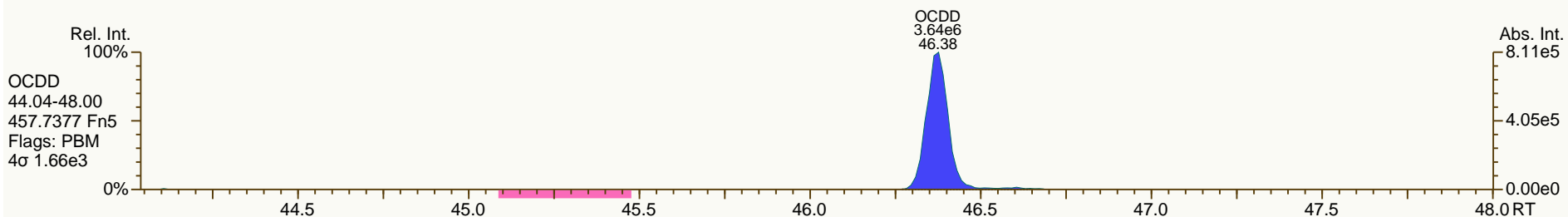
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SGS-AP ID: CS2
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

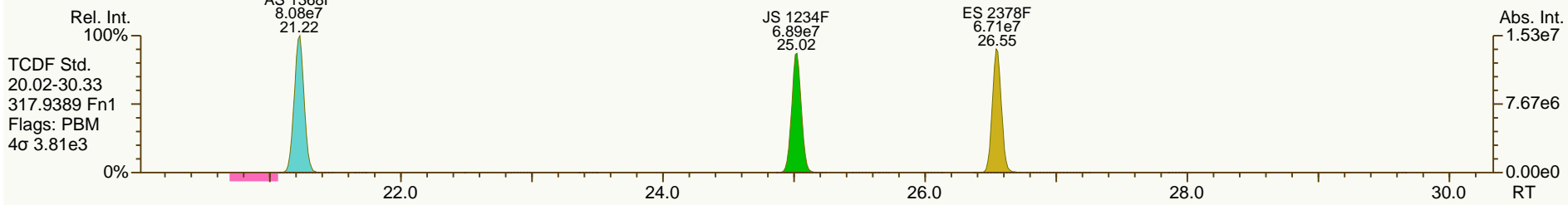
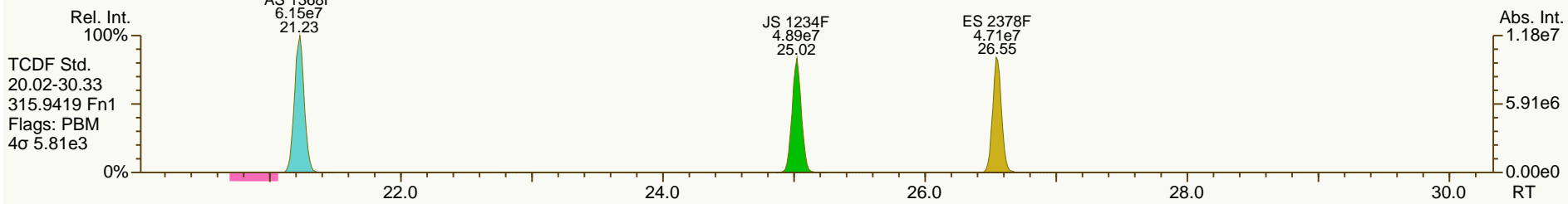
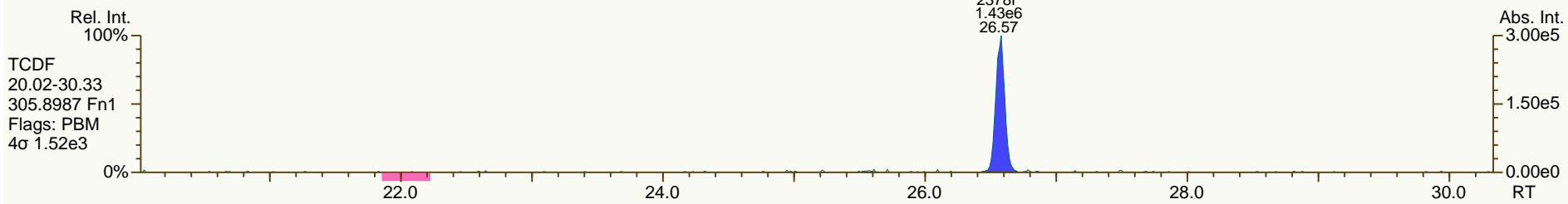
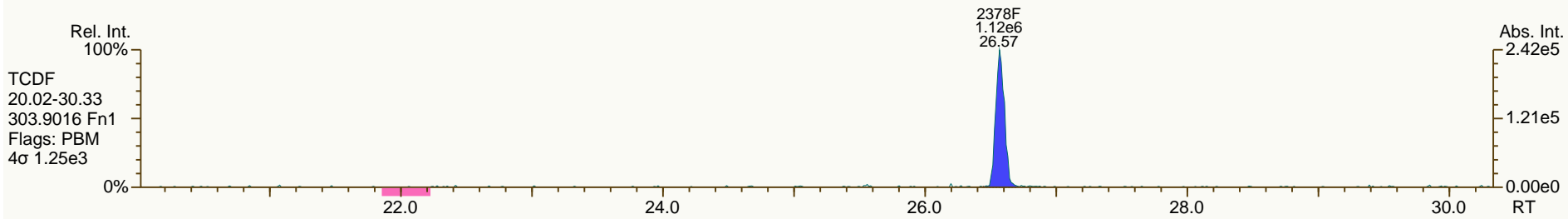
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SGS-AP ID: CS2
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

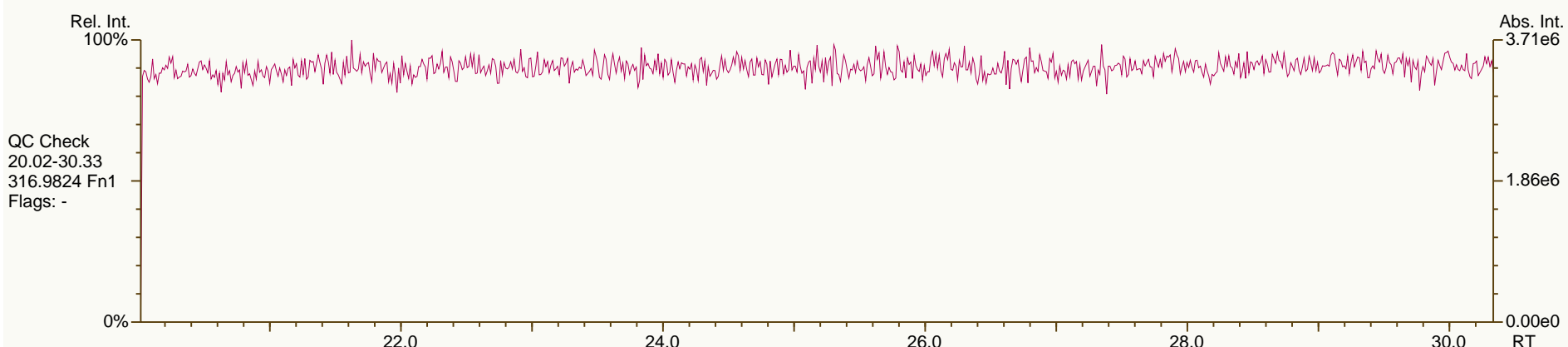
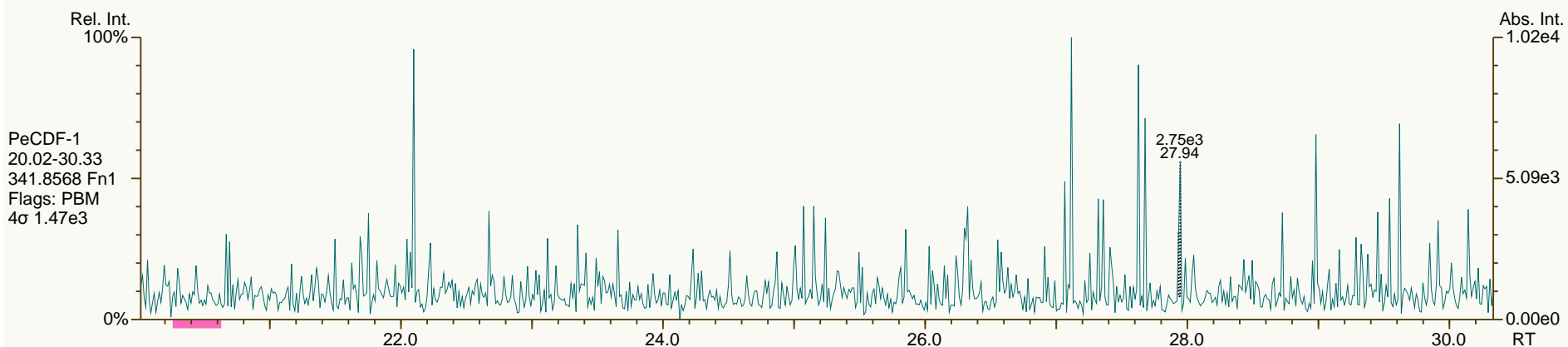
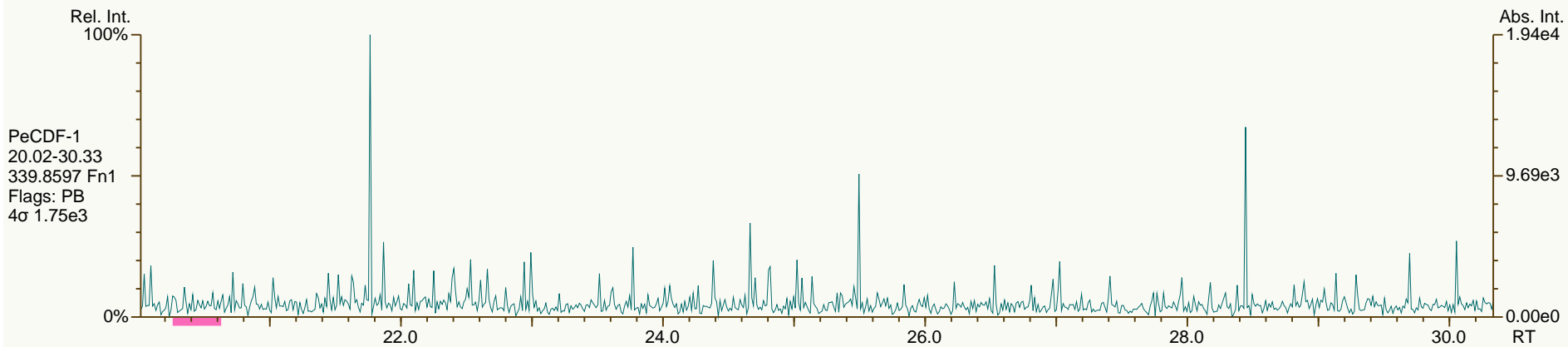
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SGS-AP ID: CS2
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

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SGS-AP ID: CS2
 Instr: AutoSpec-Ultima MM1

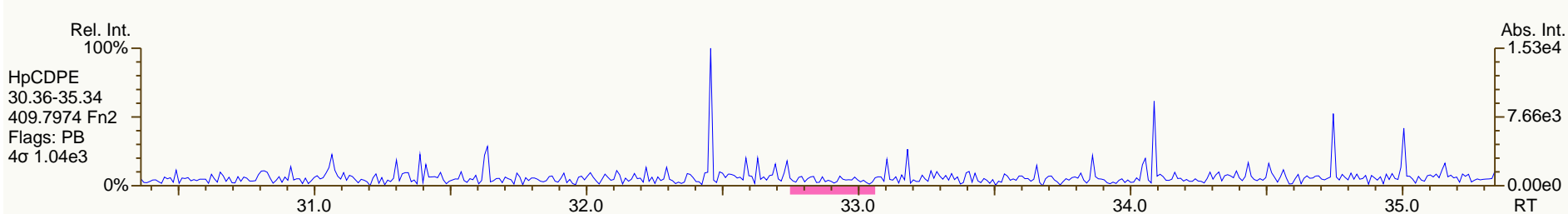
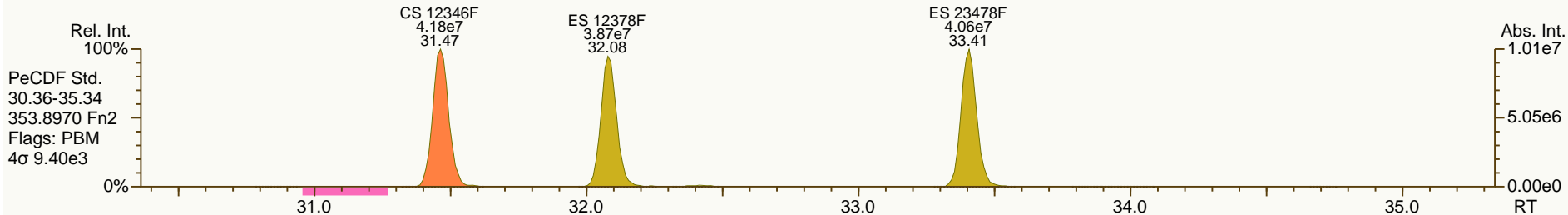
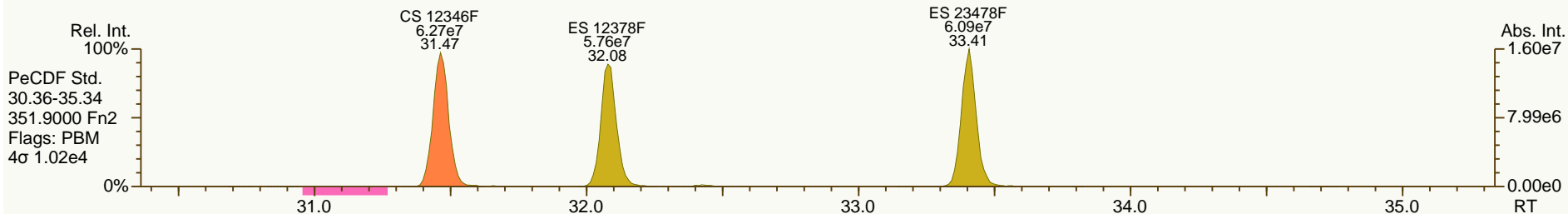
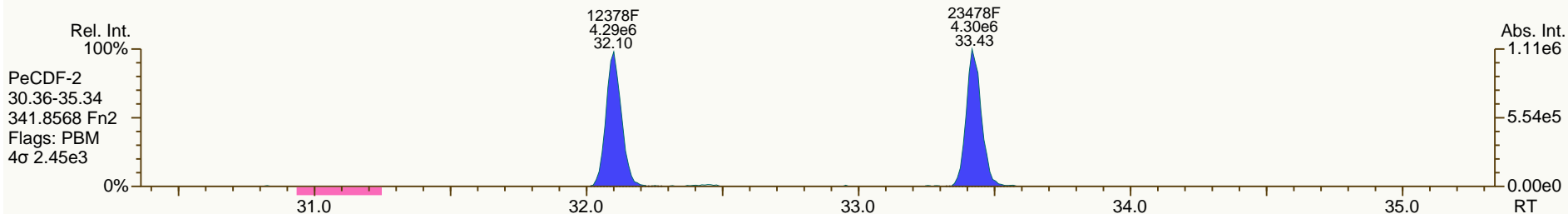
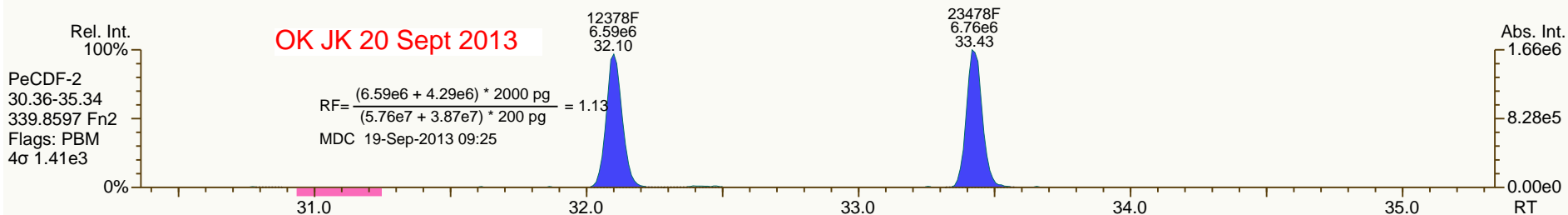
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 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

Acq: 18-SEP-2013 13:24:29
 User: MDC Datafile: 130918P1-04

OK JK 20 Sept 2013

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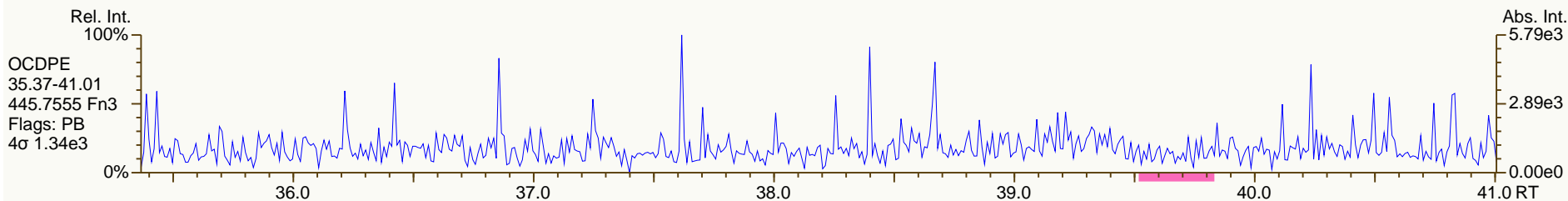
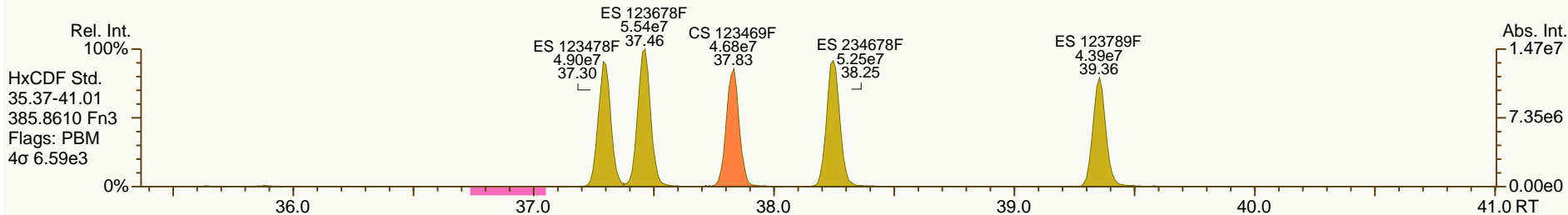
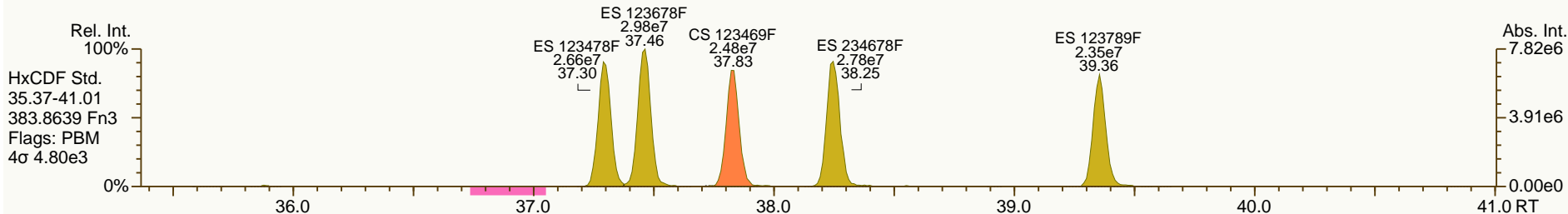
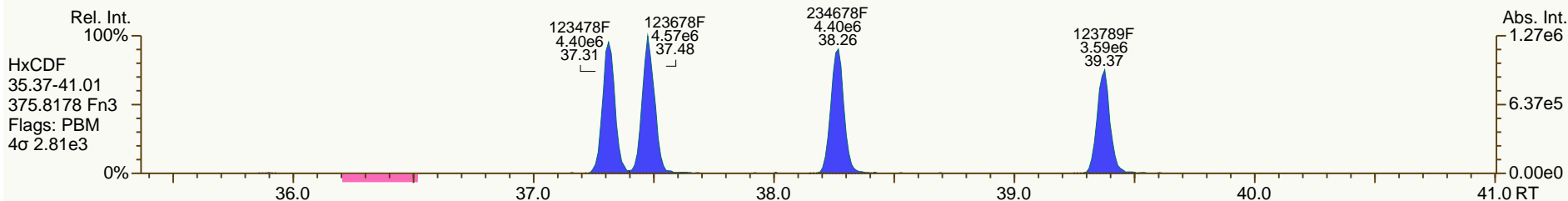
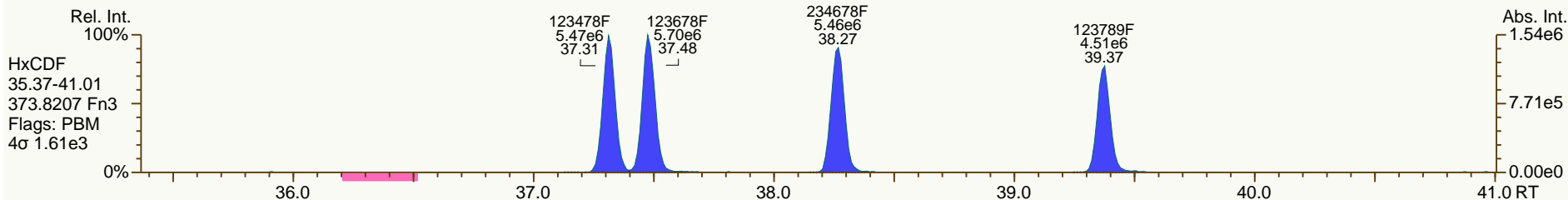
MDC 19-Sep-2013 09:25



SGS-AP ID: CS2
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

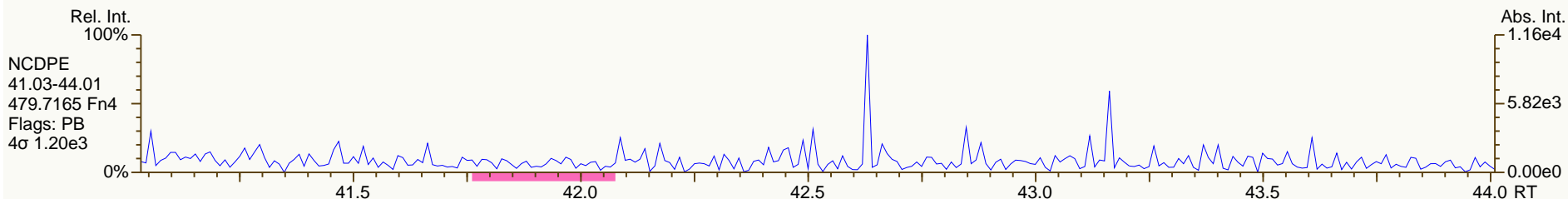
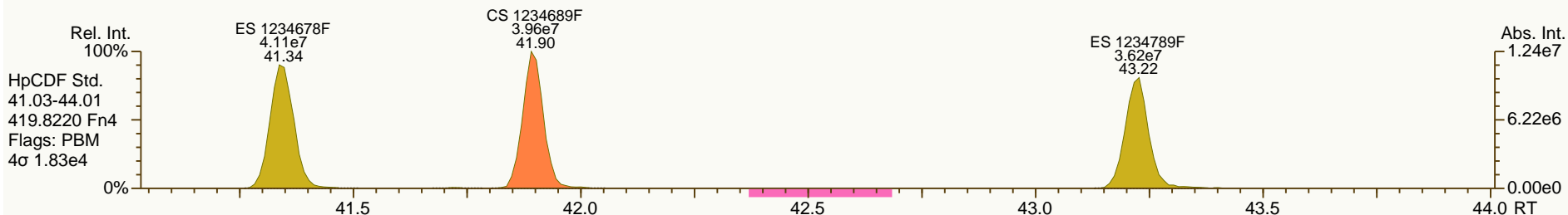
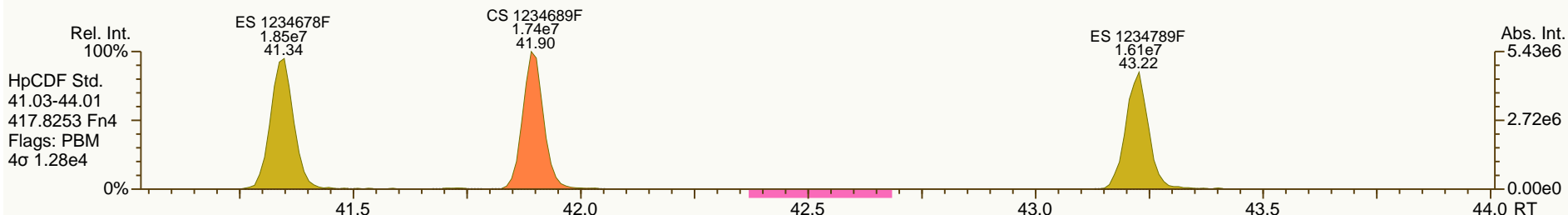
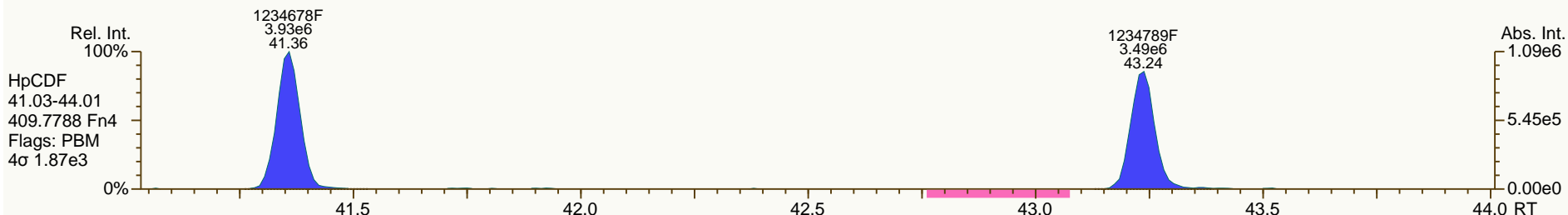
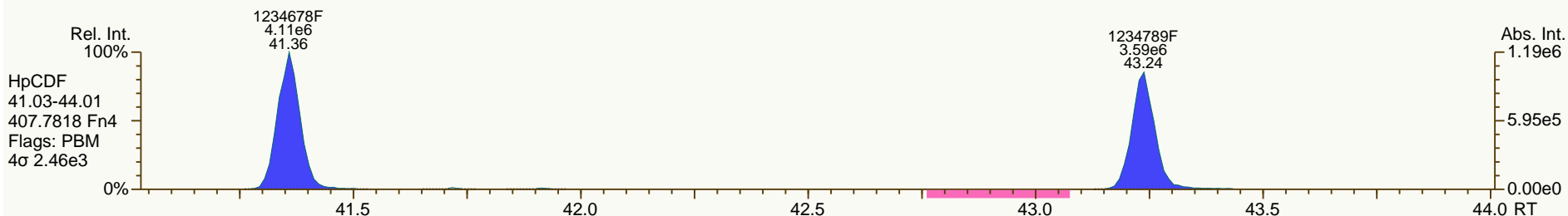
Acq: 18-SEP-2013 13:24:29
 User: MDC Datafile: 130918P1-04



SGS-AP ID: CS2
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

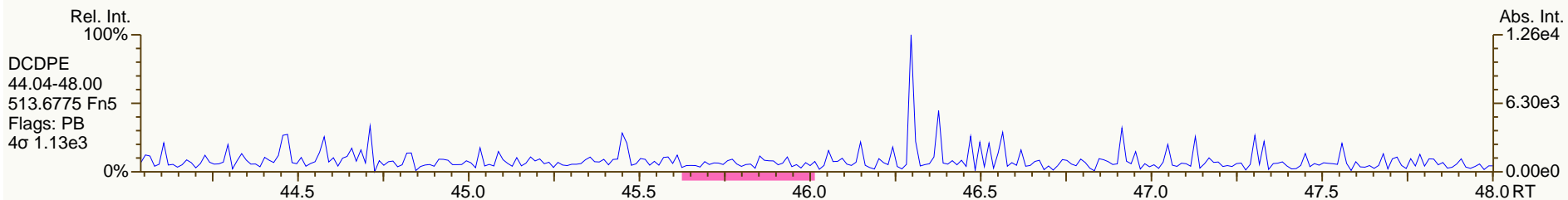
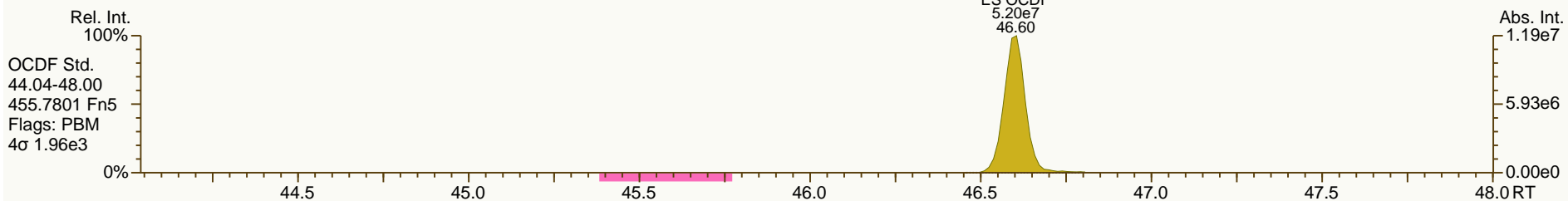
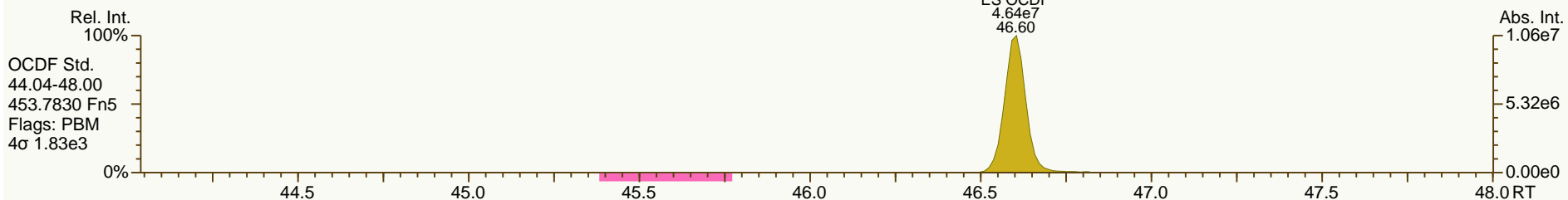
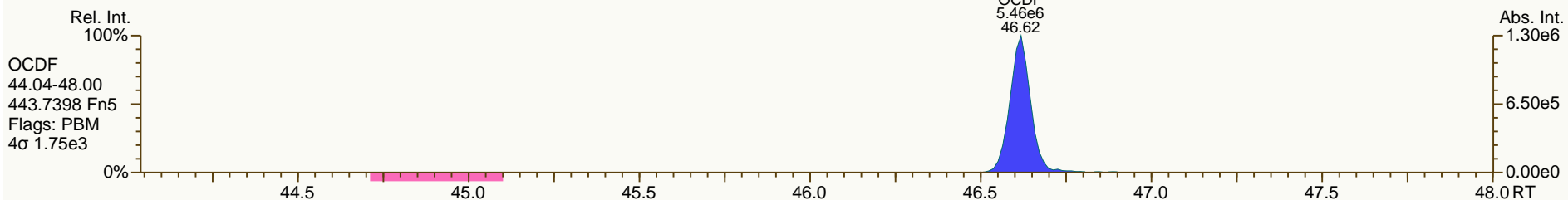
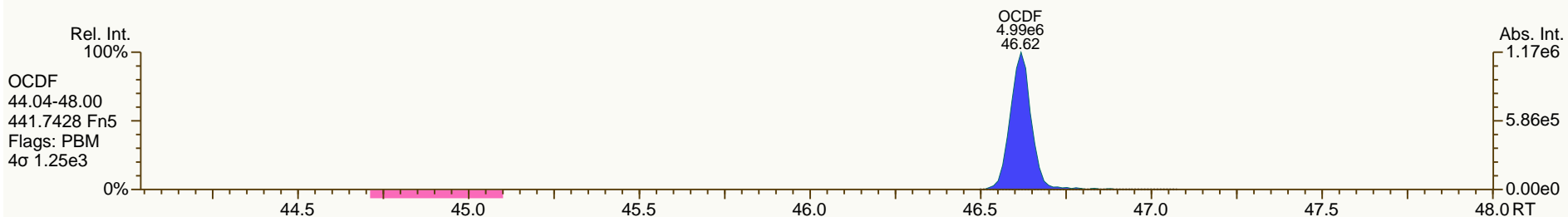
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SGS-AP ID: CS2
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

Acq: 18-SEP-2013 13:24:29
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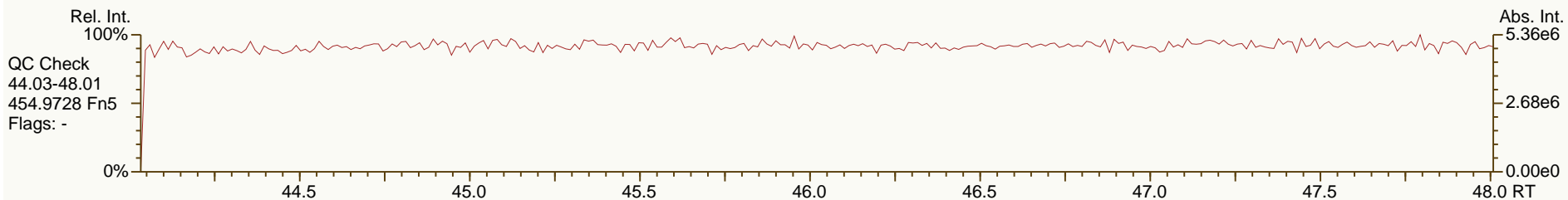
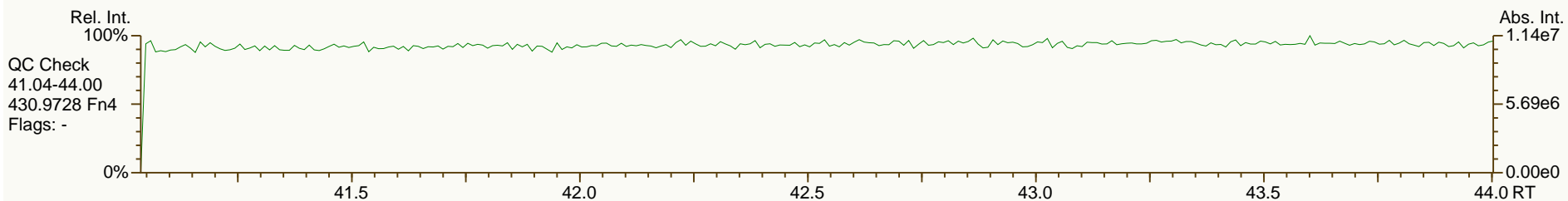
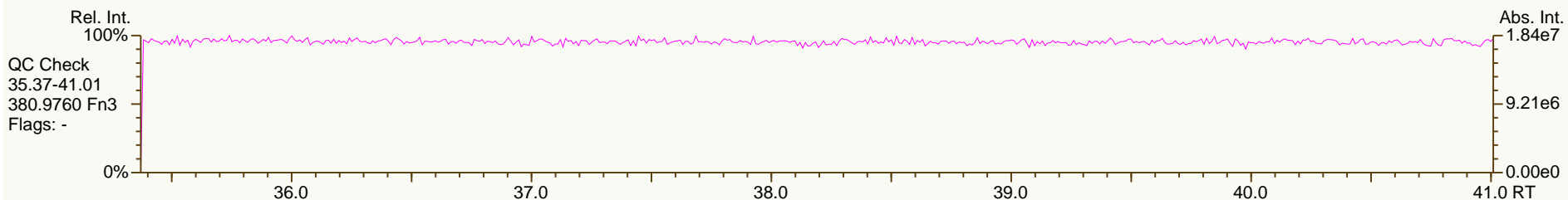
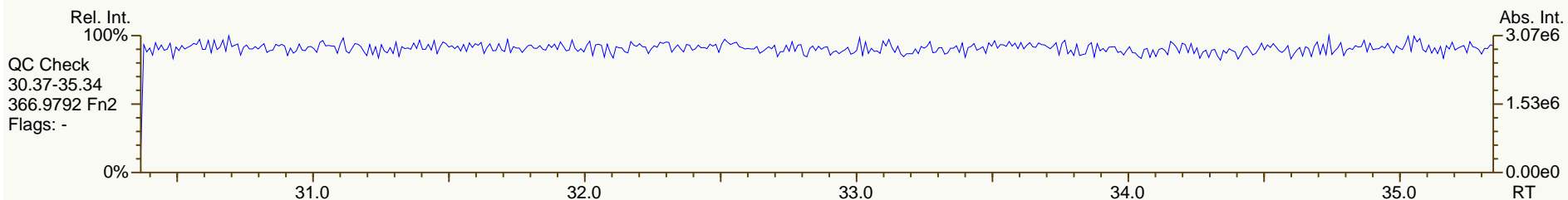
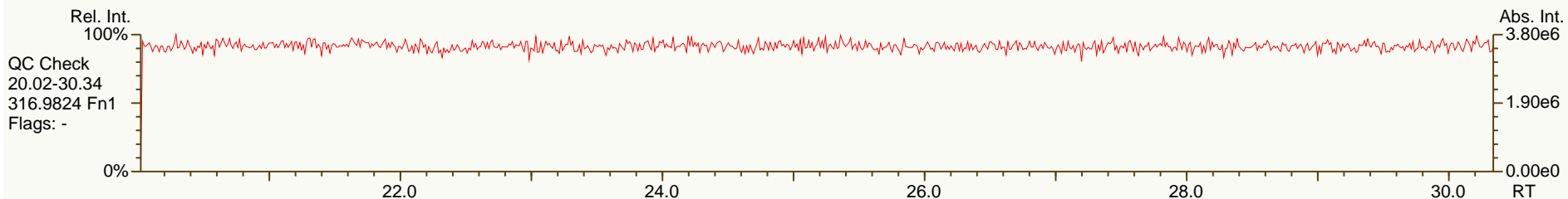
Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 14:17 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS3		UTP: 18-Sep-2013 15:16 MDC			Checkcode: 994-273-MHC		
Sample ID: 11012012A		Report: 19 Sep 2013 09:11 MC			Datafile: 130918P1-05		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.57	8.54E+06	0.81	Y	1.18	1.22	3%
12378-PeCDD	33.84	3.24E+07	1.61	Y	1.07	1.07	0%
123478-HxCDD	38.49	2.84E+07	1.28	Y	1.19	1.20	1%
123678-HxCDD	38.62	2.79E+07	1.27	Y	1.19	1.17	-2%
123789-HxCDD	38.96	2.93E+07	1.28	Y	1.12	1.11	0%
1234678-HpCDD	42.63	2.54E+07	1.06	Y	1.08	1.10	2%
OCDD	46.37	3.71E+07	0.92	Y	1.14	1.16	1%
2378-TCDF	26.58	1.27E+07	0.80	Y	1.10	1.14	4%
12378-PeCDF	32.11	5.47E+07	1.55	Y	1.17	1.17	1%
23478-PeCDF	33.43	5.43E+07	1.54	Y	1.14	1.11	-3%
123478-HxCDF	37.32	4.83E+07	1.25	Y	1.34	1.34	0%
123678-HxCDF	37.48	4.96E+07	1.26	Y	1.23	1.23	0%
234678-HxCDF	38.27	4.84E+07	1.27	Y	1.26	1.28	1%
123789-HxCDF	39.37	3.99E+07	1.29	Y	1.23	1.26	2%
1234678-HpCDF	41.36	3.90E+07	1.04	Y	1.42	1.42	0%
1234789-HpCDF	43.24	3.39E+07	1.03	Y	1.39	1.42	2%
OCDF	46.62	5.10E+07	0.92	Y	1.11	1.12	1%
ES 2378-TCDD	27.54	7.01E+07	0.79	Y	1.02	0.99	-3%
ES 12378-PeCDD	33.82	6.05E+07	1.59	Y	0.92	0.85	-7%
ES 123478-HxCDD	38.47	4.72E+07	1.20	Y	1.02	0.99	-3%
ES 123678-HxCDD	38.60	4.76E+07	1.19	Y	1.01	1.00	-1%
ES 123789-HxCDD	38.94	5.27E+07	1.19	Y	1.14	1.11	-3%
ES 1234678-HpCDD	42.62	4.62E+07	1.07	Y	1.02	0.97	-5%
ES OCDD	46.36	6.42E+07	0.91	Y	0.72	0.68	-6%
ES 2378-TCDF	26.56	1.12E+08	0.72	Y	1.01	0.99	-2%
ES 12378-PeCDF	32.09	9.32E+07	1.51	Y	0.89	0.82	-7%
ES 23478-PeCDF	33.41	9.78E+07	1.50	Y	0.91	0.86	-4%
ES 123478-HxCDF	37.30	7.22E+07	0.54	Y	1.53	1.52	-1%
ES 123678-HxCDF	37.46	8.08E+07	0.54	Y	1.73	1.70	-1%
ES 234678-HxCDF	38.25	7.58E+07	0.54	Y	1.61	1.60	-1%
ES 123789-HxCDF	39.36	6.33E+07	0.54	Y	1.39	1.33	-4%
ES 1234678-HpCDF	41.34	5.49E+07	0.43	Y	1.20	1.16	-4%
ES 1234789-HpCDF	43.22	4.78E+07	0.45	Y	1.07	1.01	-6%
ES OCDF	46.60	9.12E+07	0.92	Y	1.04	0.96	-8%

Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 14:17 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS3		UTP: 18-Sep-2013 15:16 MDC			Checkcode: 994-273		
Sample ID: 11012012A		Report: 19 Sep 2013 09:11 MC			Datafile: 130918P1-05		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
JS 1234-TCDD	26.80	7.08E+07	0.81	Y	-	-	-
JS 1234-TCDF	25.03	1.13E+08	0.71	Y	-	-	-
JS 123467-HxCDD	38.82	2.37E+07	1.19	Y	-	-	-
CS 37C1-2378-TCDD	27.57	7.81E+06	n/a	-	1.13	1.10	-2%
CS 12347-PeCDD	33.23	5.99E+07	1.60	Y	0.88	0.85	-3%
CS 12346-PeCDF	31.47	1.03E+08	1.50	Y	0.90	0.91	1%
CS 123469-HxCDF	37.83	6.94E+07	0.53	Y	1.40	1.46	5%
CS 1234689-HpCDF	41.90	5.20E+07	0.45	Y	1.09	1.10	0%
SS 37C1-2378-TCDD	27.57	7.81E+06	n/a	-	1.11	1.11	0%
SS 12347-PeCDD	33.23	5.99E+07	1.60	Y	0.96	0.99	3%
SS 12346-PeCDF	31.47	1.03E+08	1.50	Y	1.02	1.10	8%
SS 123469-HxCDF	37.83	6.94E+07	0.53	Y	0.81	0.86	6%
SS 1234689-HpCDF	41.90	5.20E+07	0.45	Y	0.91	0.95	4%
AS 1368-TCDD	23.44	7.25E+07	0.82	Y	1.01	1.02	2%
AS 1368-TCDF	21.23	1.40E+08	0.73	Y	1.22	1.24	2%
FS 1278-TCDD	27.92	8.38E+07	0.80	Y	1.18	1.20	2%
FS 12478-PeCDD	32.37	6.60E+07	1.64	Y	1.06	1.09	3%
FS 123468-HxCDD	37.22	6.33E+07	1.21	Y	1.26	1.34	6%
FS 1234679-HpCDD	41.72	5.57E+07	1.07	Y	1.12	1.21	7%
TS 1378-TCDD	25.67	7.91E+07	0.80	Y	1.11	1.13	2%
OCDD-a	46.37	2.05E+06	2.47	Y	0.07	0.06	-6%
OCDF-a	46.61	2.84E+06	2.62	Y	0.06	0.06	-2%

SGS-AP ID: CS3
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

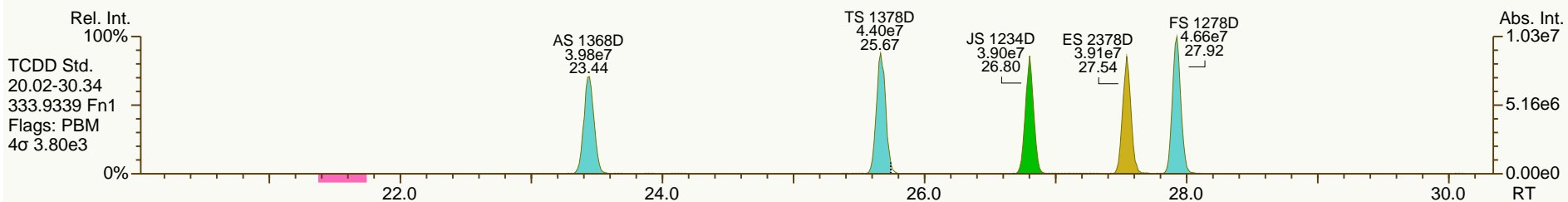
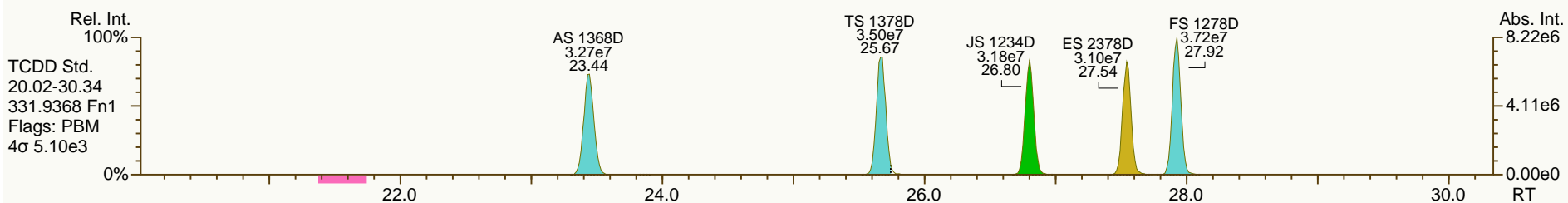
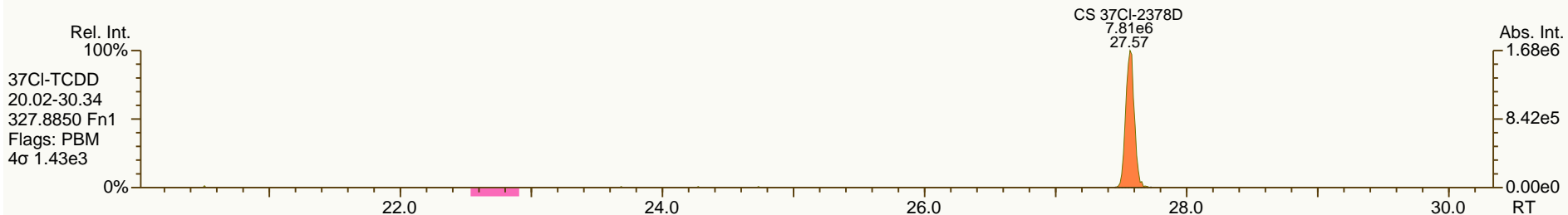
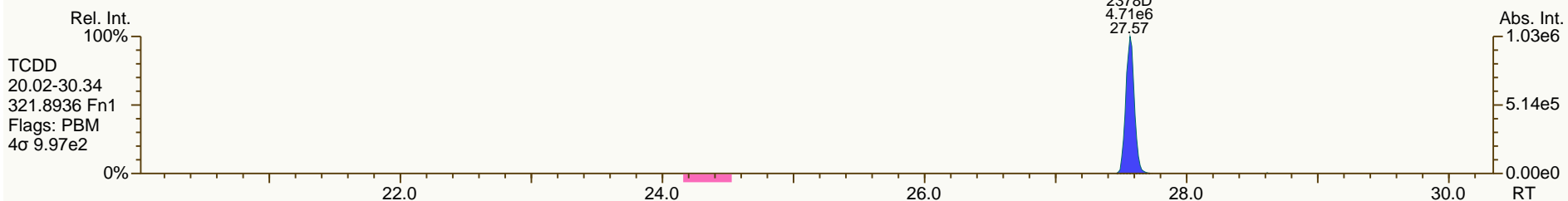
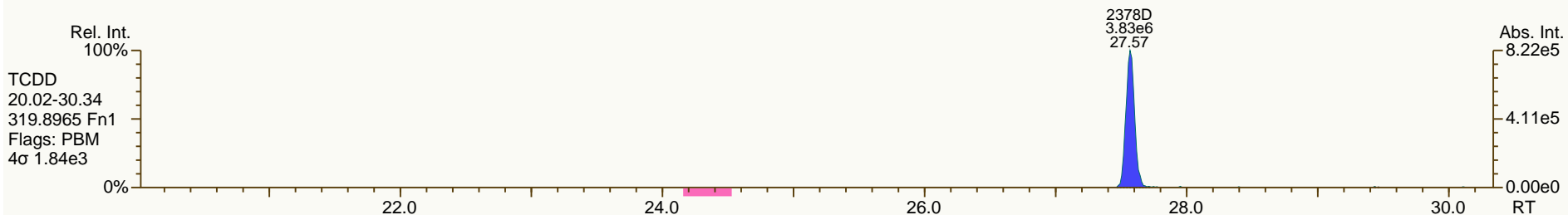
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 User: MDC Datafile: 130918P1-05



SGS-AP ID: CS3
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

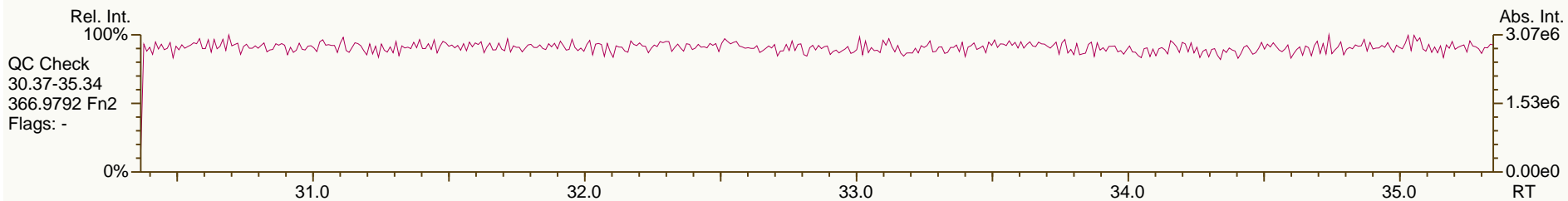
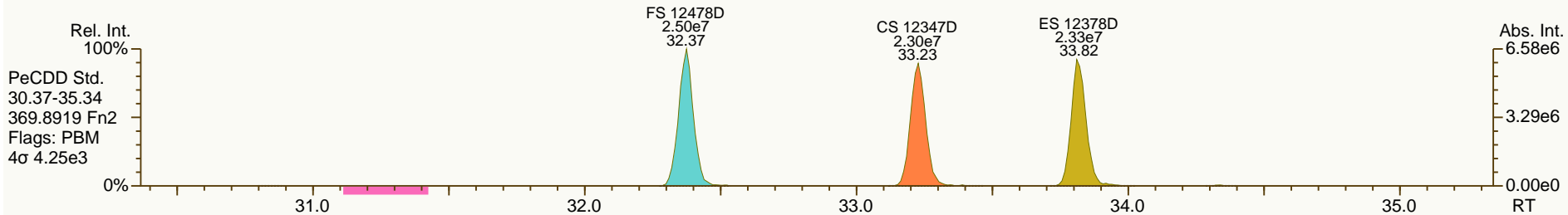
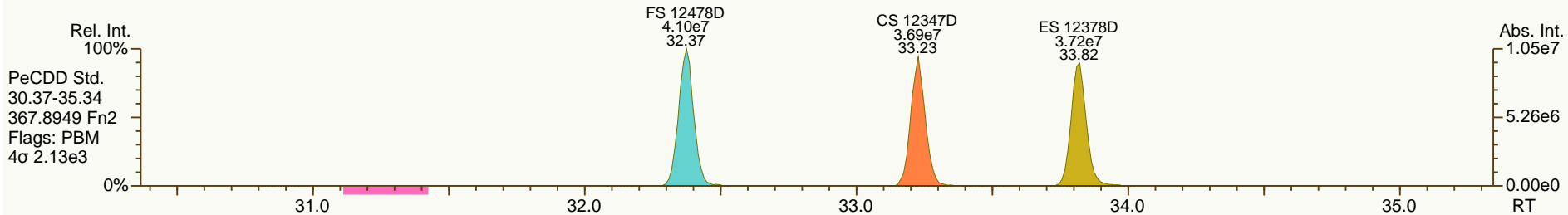
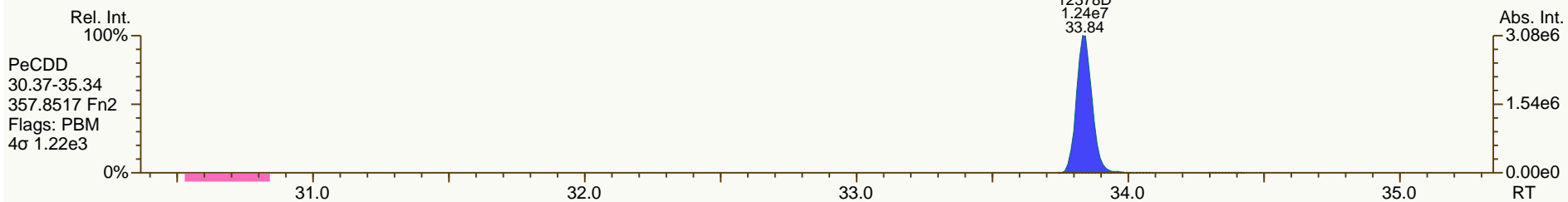
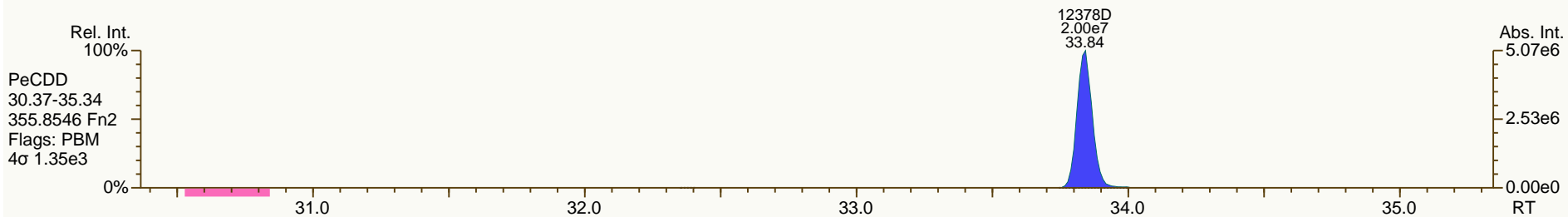
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SGS-AP ID: CS3
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

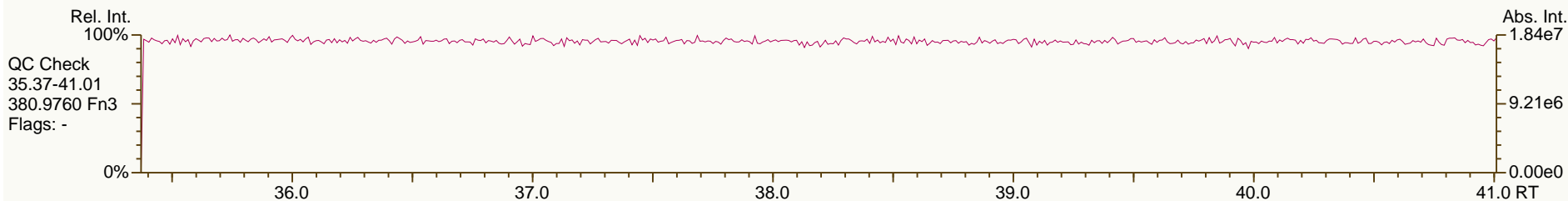
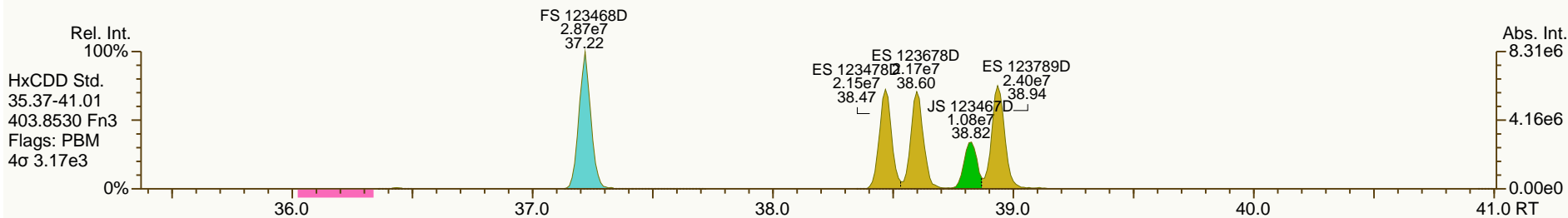
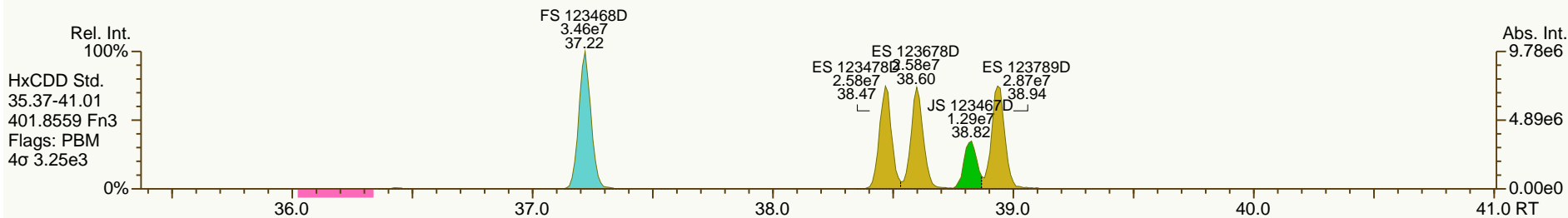
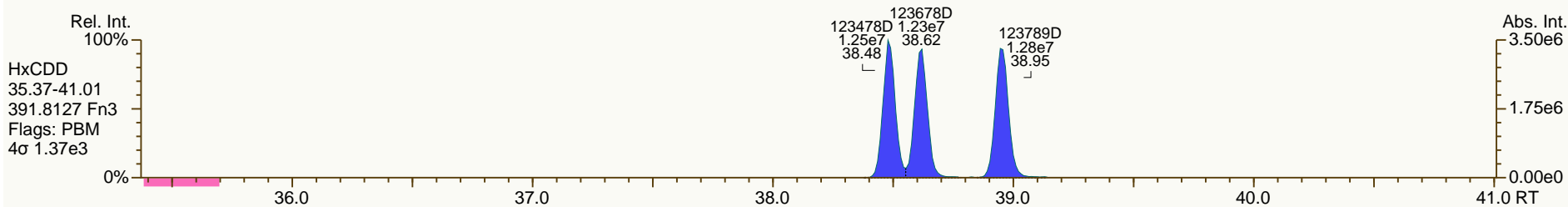
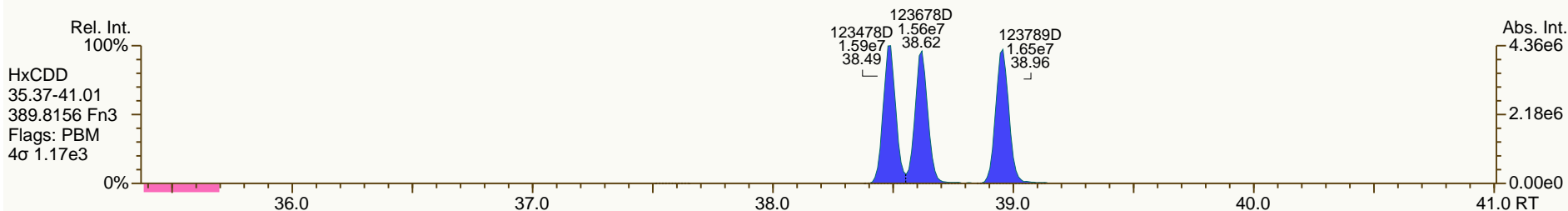
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SGS-AP ID: CS3
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

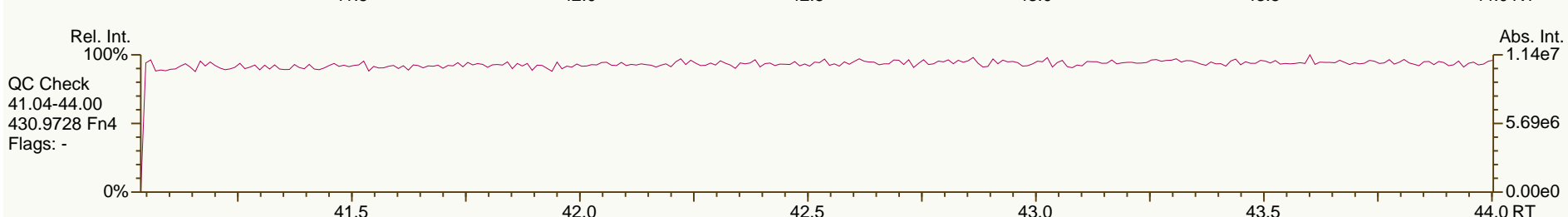
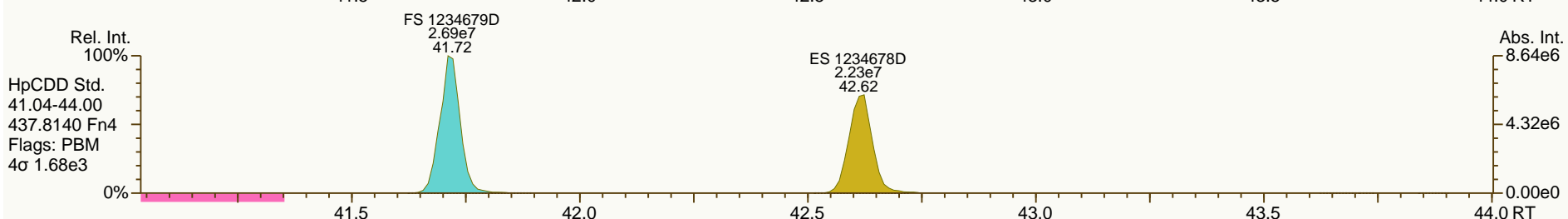
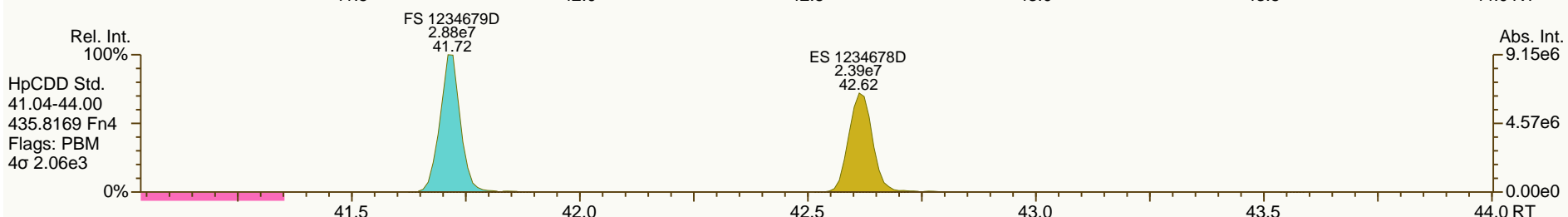
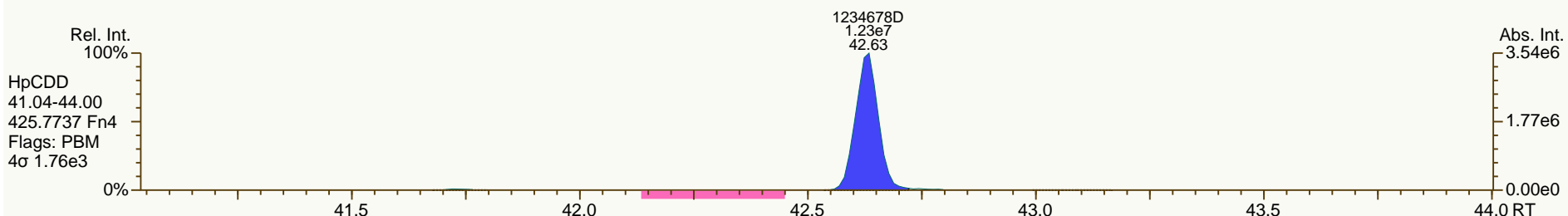
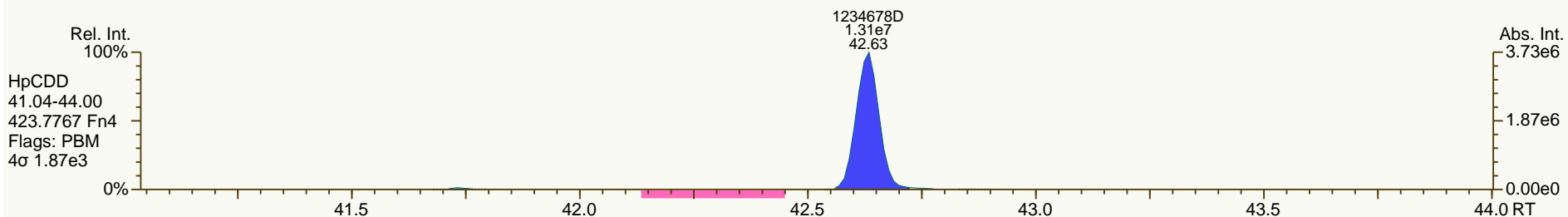
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SGS-AP ID: CS3
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

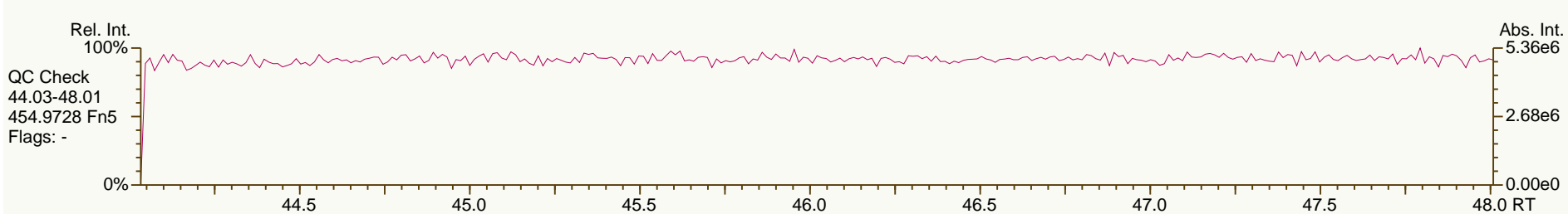
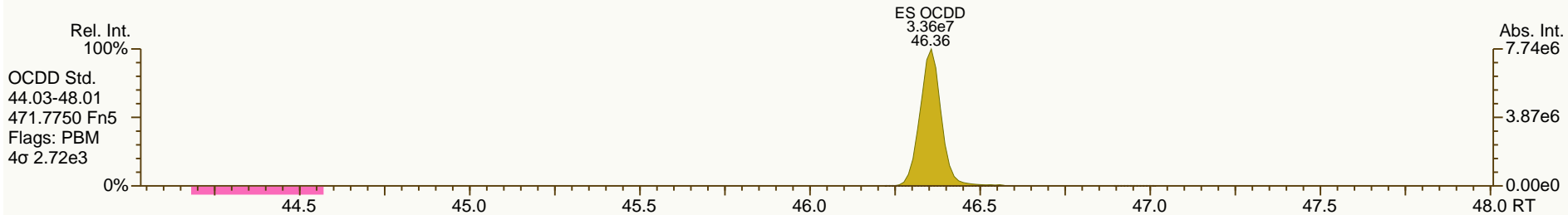
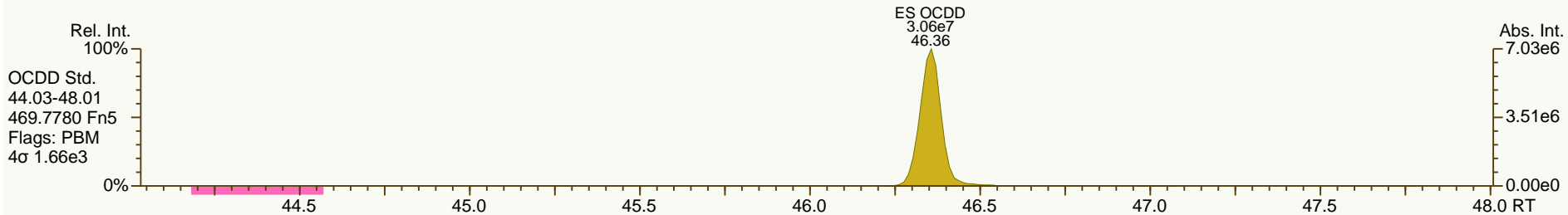
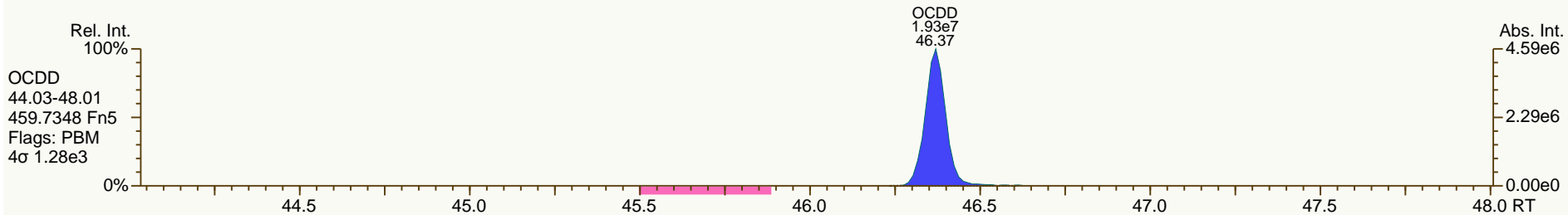
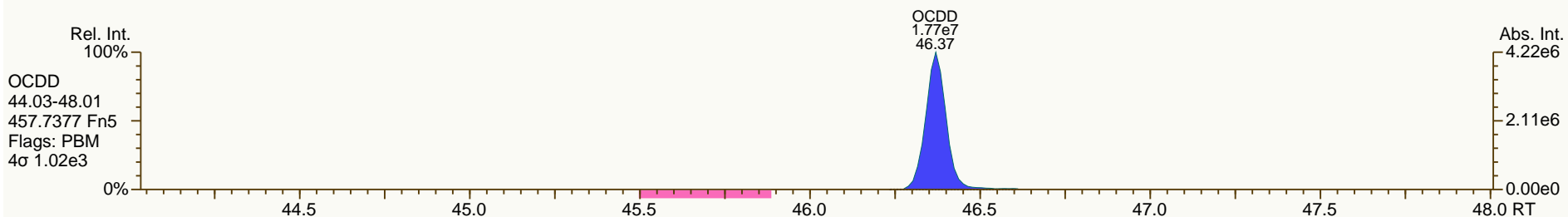
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SGS-AP ID: CS3
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

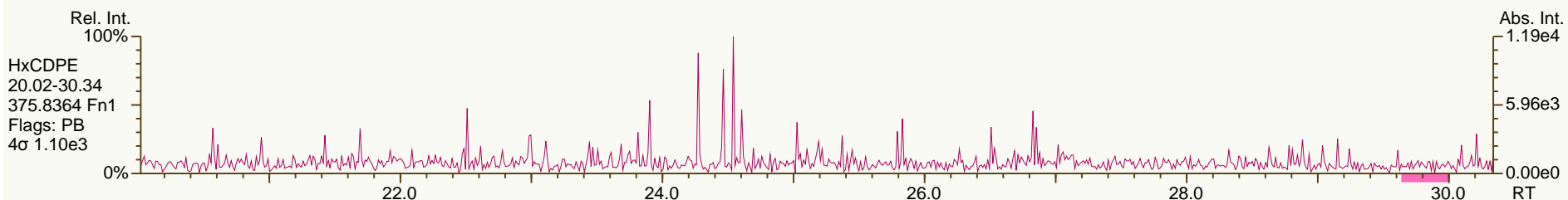
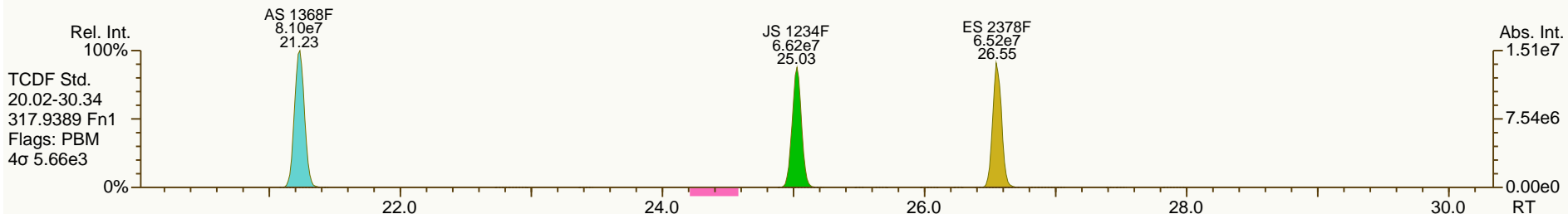
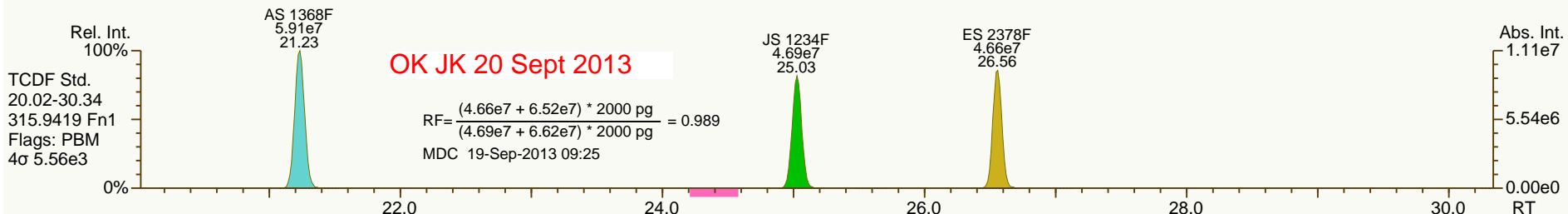
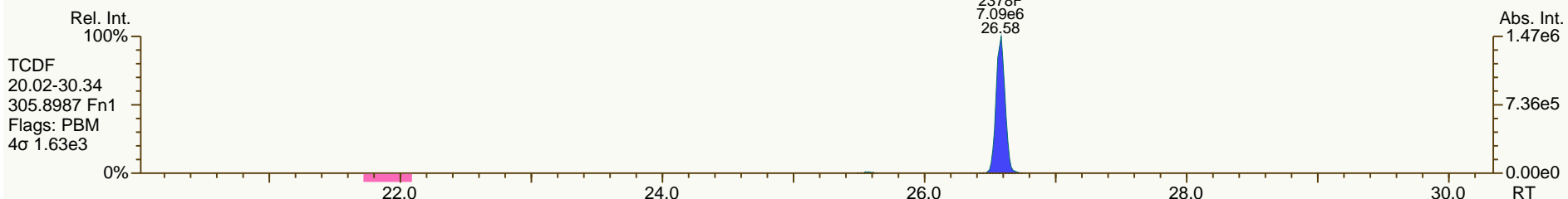
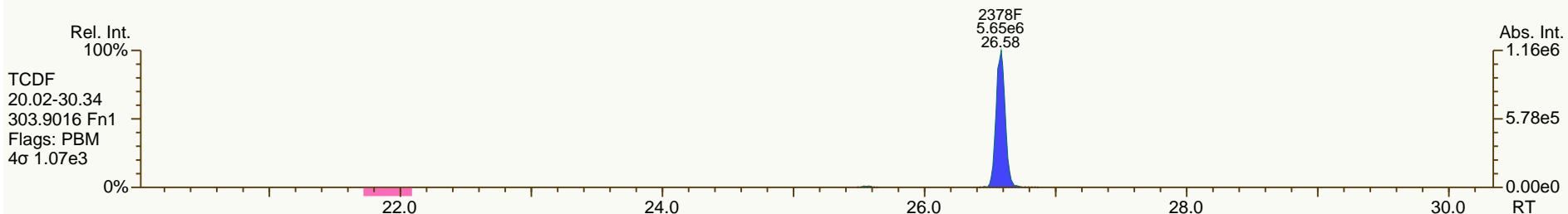
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SGS-AP ID: CS3
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

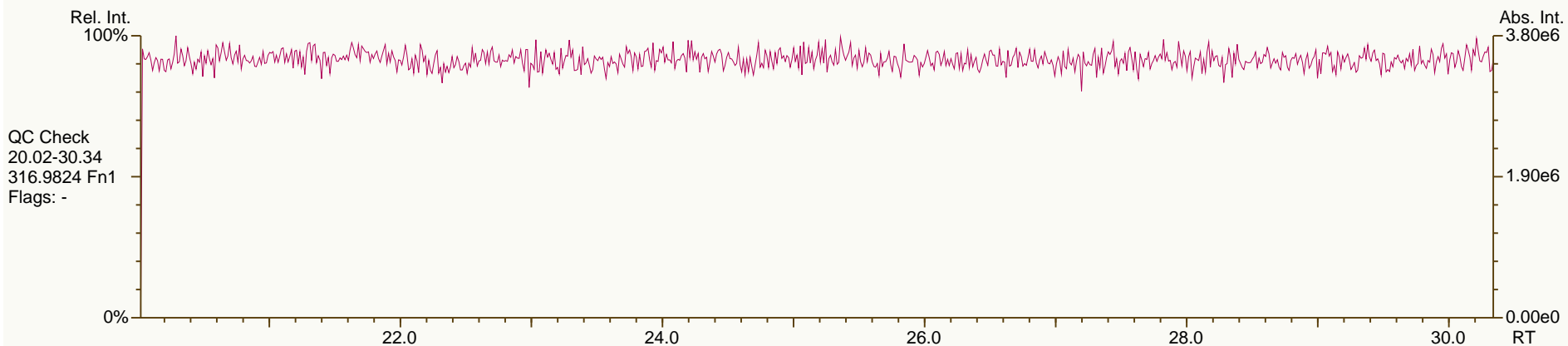
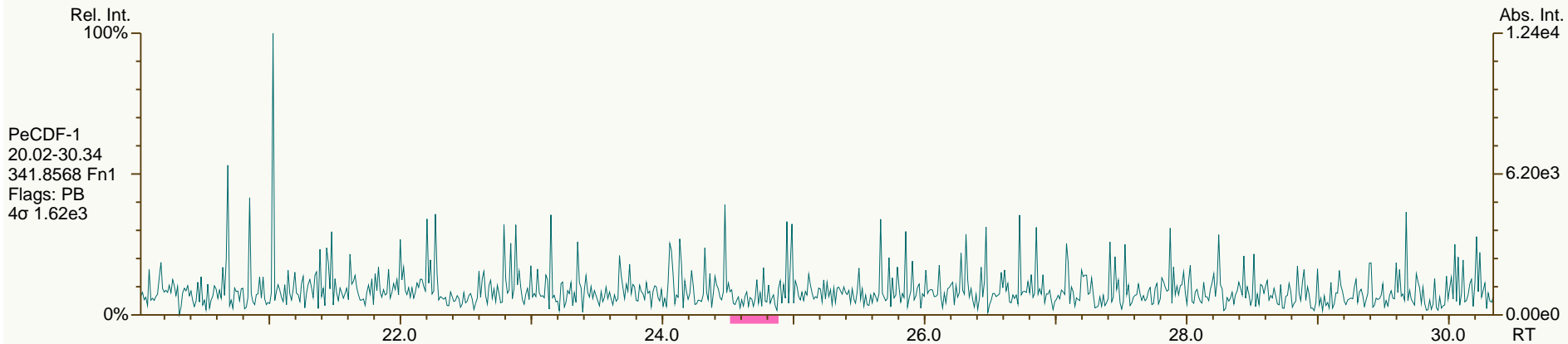
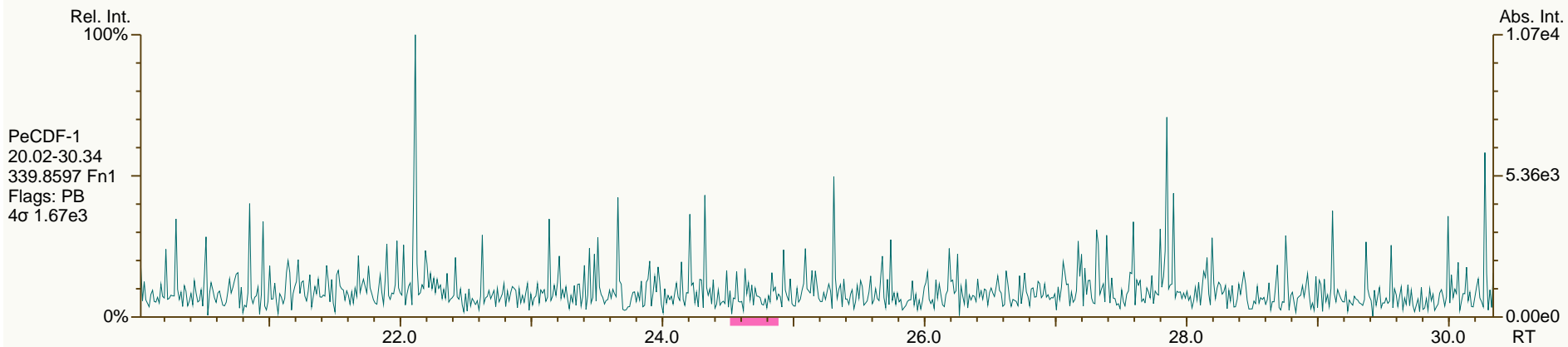
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SGS-AP ID: CS3
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

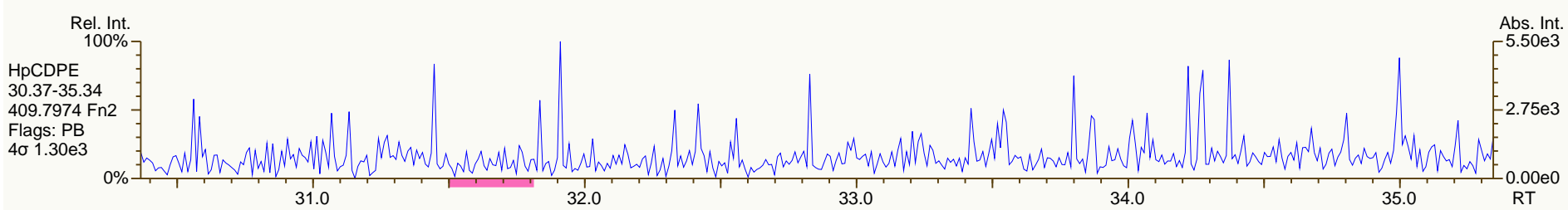
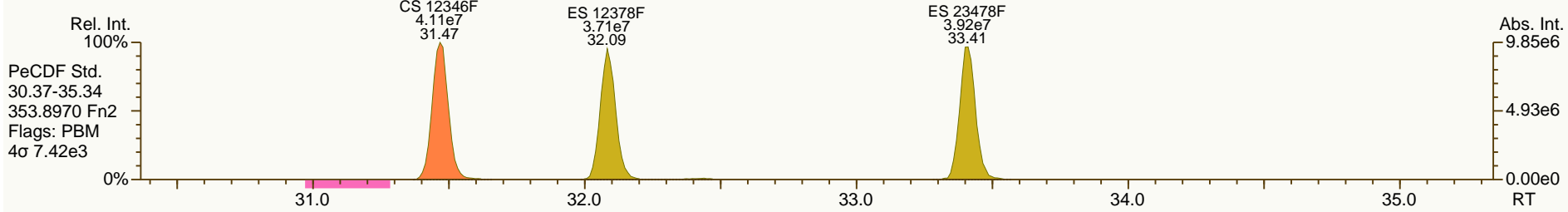
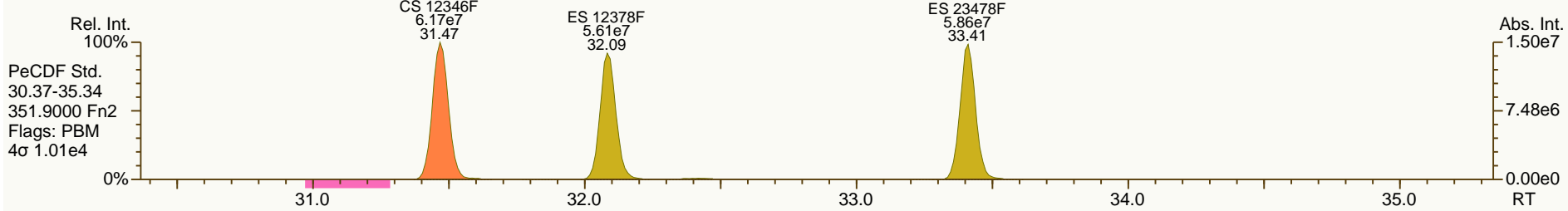
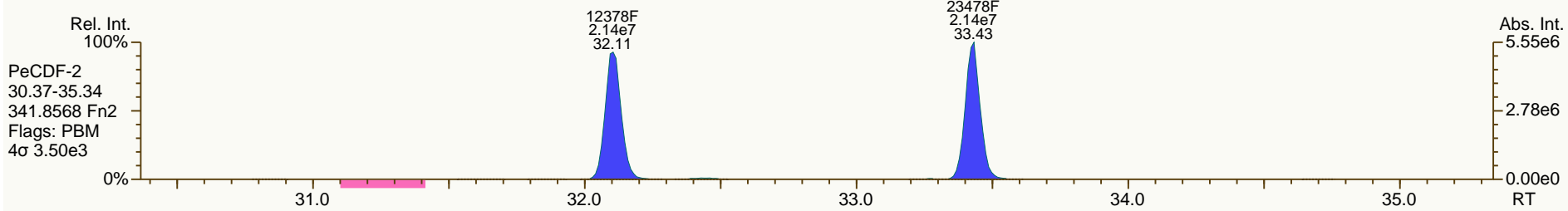
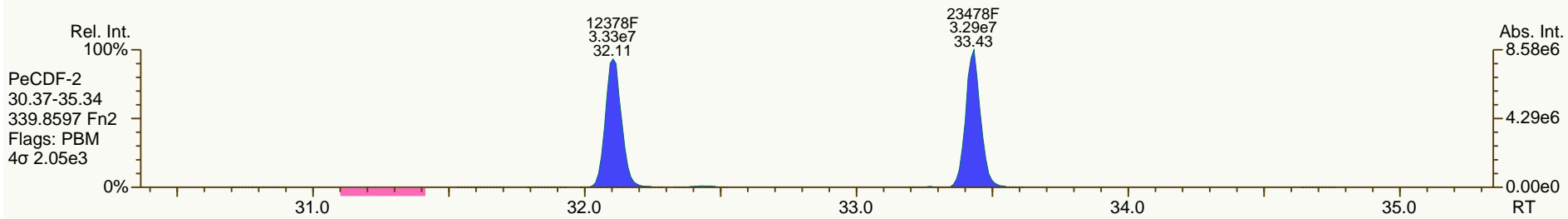
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SGS-AP ID: CS3
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

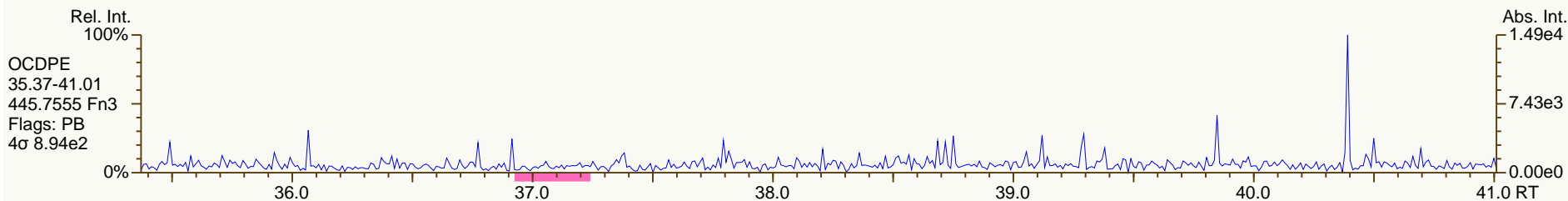
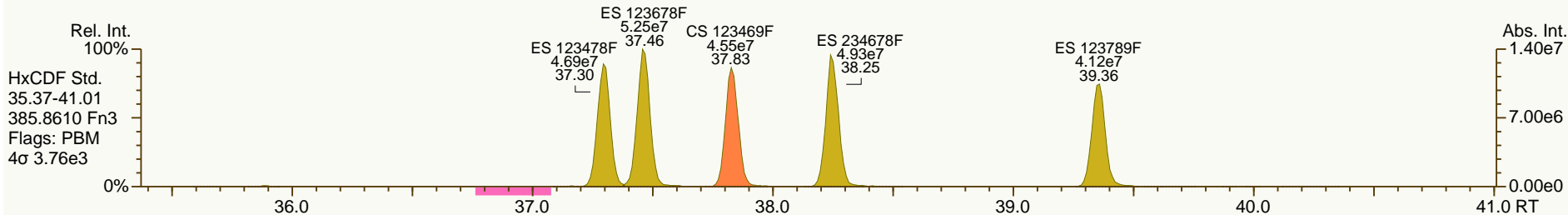
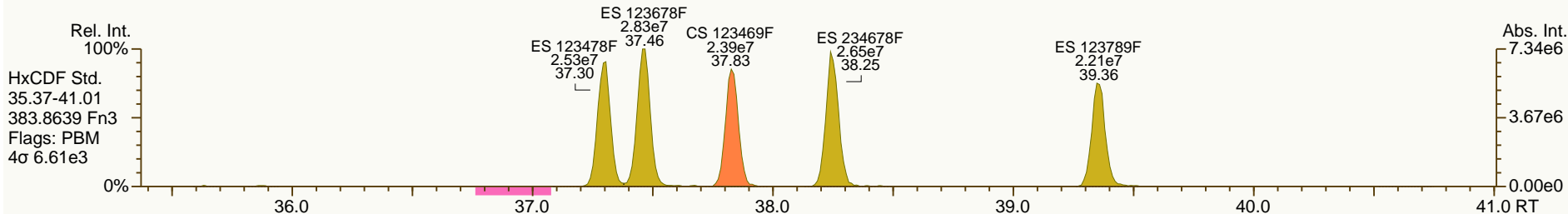
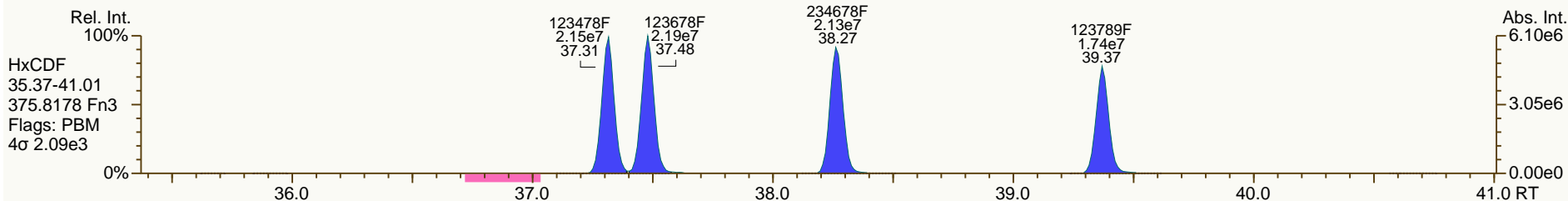
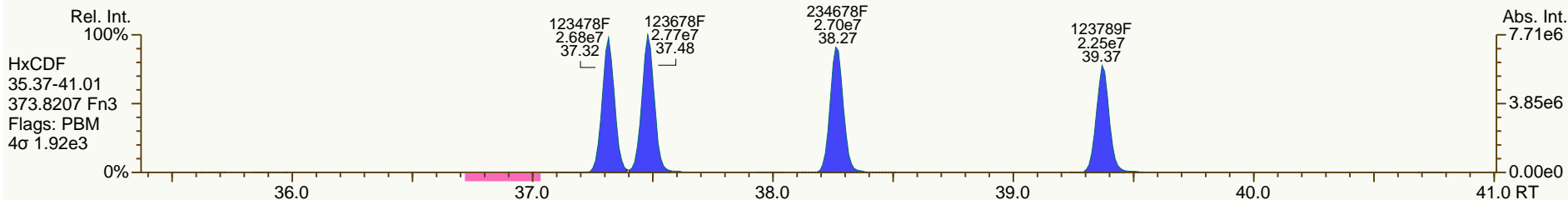
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SGS-AP ID: CS3
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

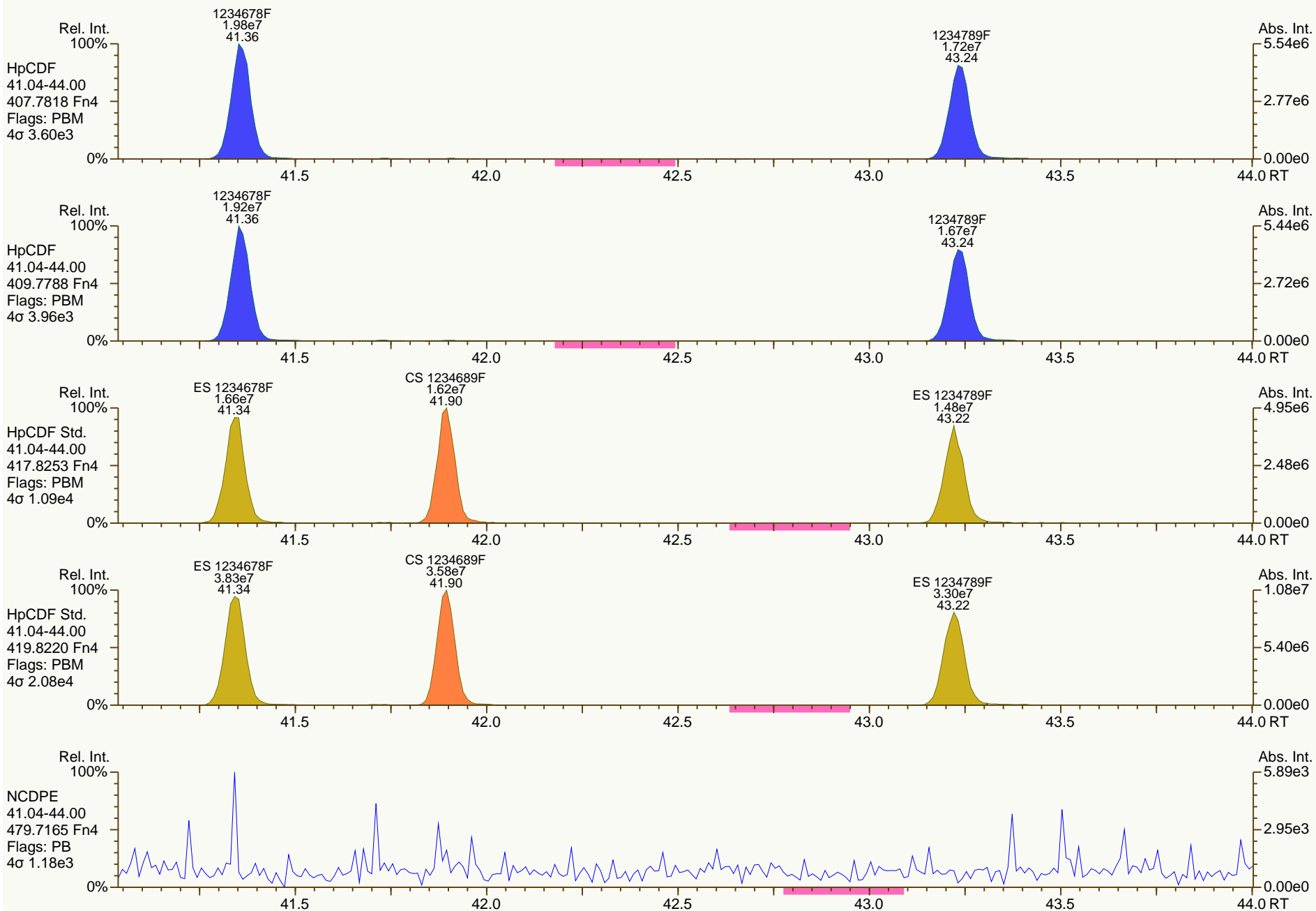
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SGS-AP ID: CS3
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

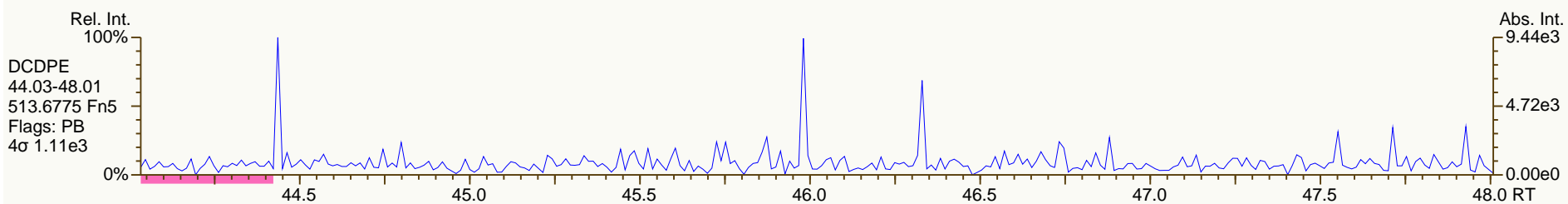
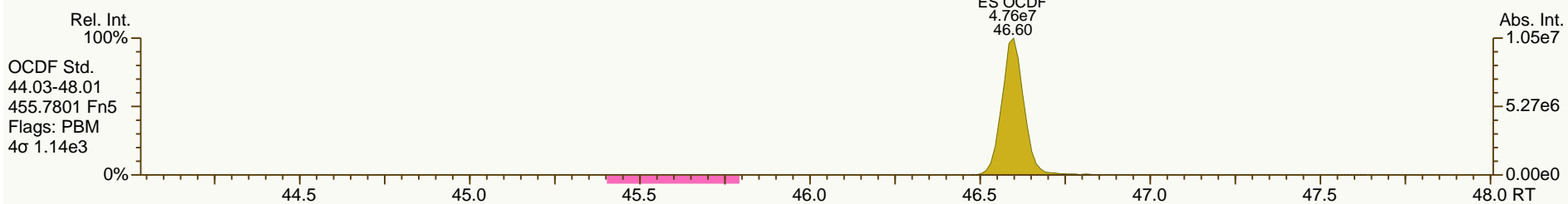
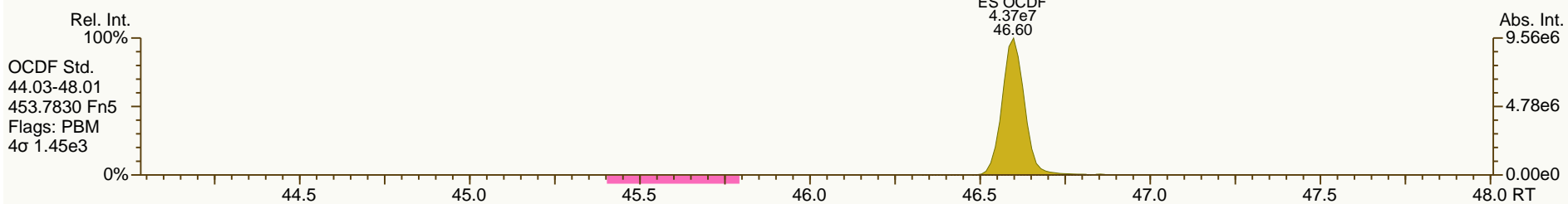
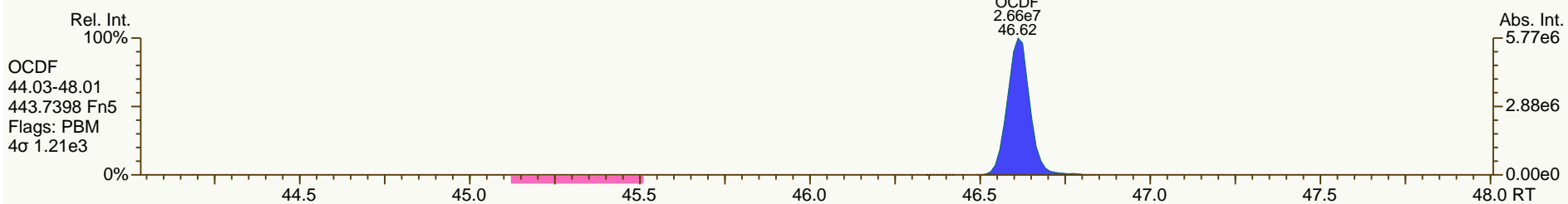
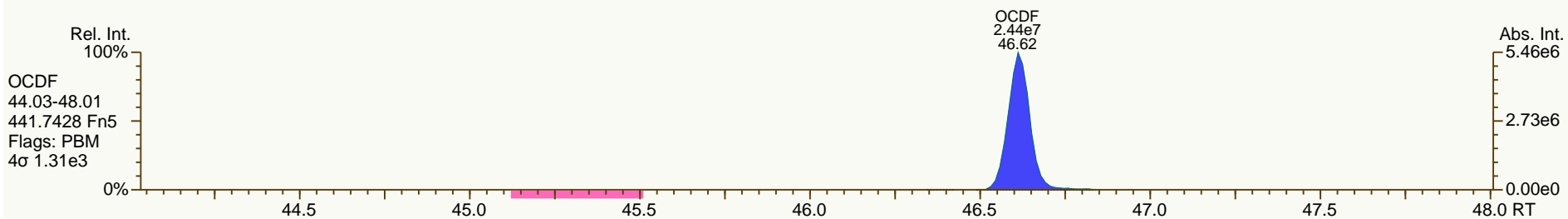
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SGS-AP ID: CS3
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

Acq: 18-SEP-2013 14:17:08
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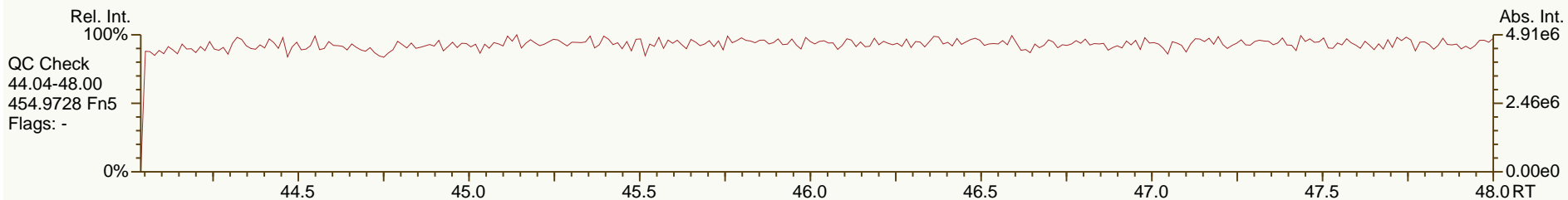
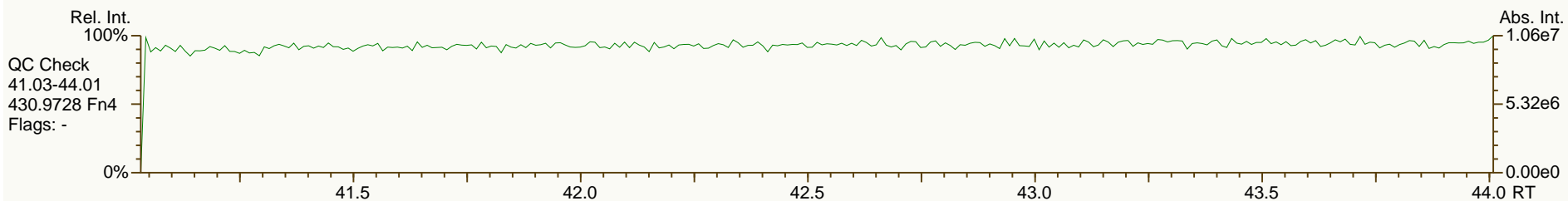
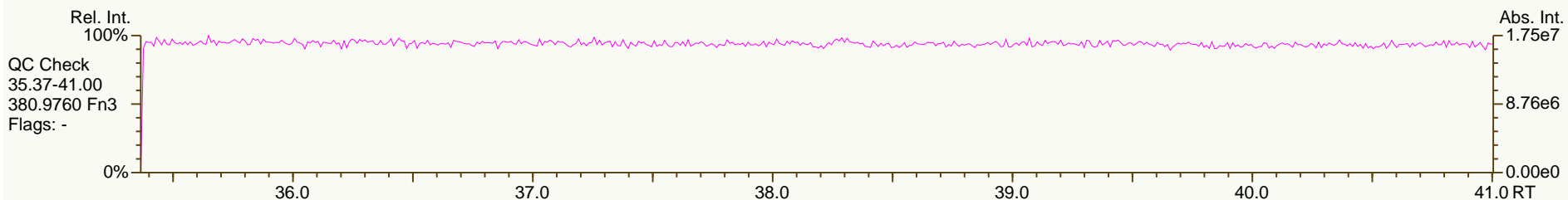
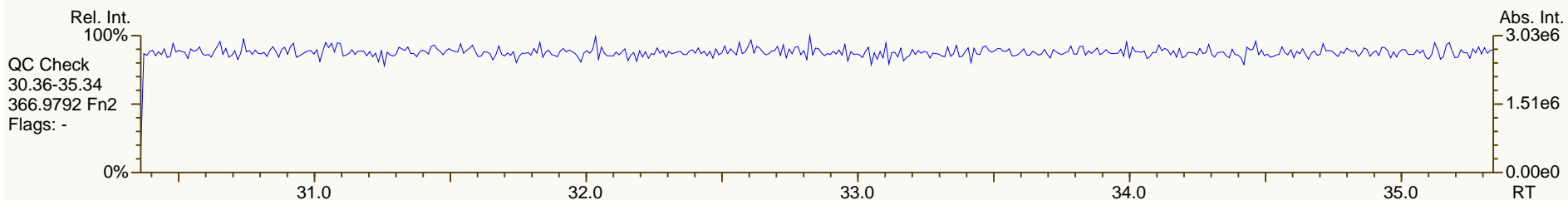
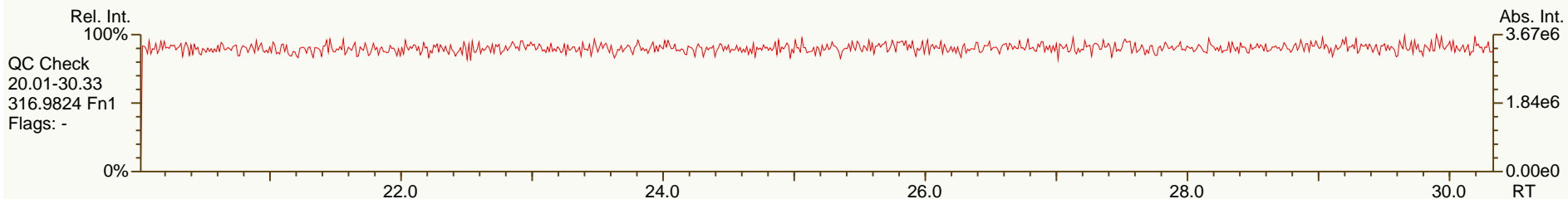
Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 15:09 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS4		UTP: 18-Sep-2013 16:08 MDC			Checkcode: 777-980-TLN		
Sample ID: 11012012A		Report: 19 Sep 2013 09:12 MC			Datafile: 130918P1-06		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.57	3.97E+07	0.81	Y	1.18	1.20	2%
12378-PeCDD	33.84	1.61E+08	1.59	Y	1.07	1.10	3%
123478-HxCDD	38.48	1.46E+08	1.27	Y	1.19	1.23	3%
123678-HxCDD	38.61	1.42E+08	1.27	Y	1.19	1.21	2%
123789-HxCDD	38.95	1.52E+08	1.26	Y	1.12	1.13	1%
1234678-HpCDD	42.63	1.35E+08	1.05	Y	1.08	1.11	2%
OCDD	46.37	2.03E+08	0.91	Y	1.14	1.18	3%
2378-TCDF	26.58	5.95E+07	0.78	Y	1.10	1.14	4%
12378-PeCDF	32.10	2.73E+08	1.55	Y	1.17	1.18	1%
23478-PeCDF	33.43	2.72E+08	1.56	Y	1.14	1.14	0%
123478-HxCDF	37.31	2.44E+08	1.27	Y	1.34	1.36	1%
123678-HxCDF	37.47	2.53E+08	1.27	Y	1.23	1.26	3%
234678-HxCDF	38.26	2.45E+08	1.26	Y	1.26	1.30	3%
123789-HxCDF	39.37	2.11E+08	1.27	Y	1.23	1.27	3%
1234678-HpCDF	41.35	2.09E+08	1.04	Y	1.42	1.47	3%
1234789-HpCDF	43.23	1.84E+08	1.05	Y	1.39	1.41	2%
OCDF	46.61	2.90E+08	0.92	Y	1.11	1.14	3%
ES 2378-TCDD	27.54	8.24E+07	0.80	Y	1.02	1.06	3%
ES 12378-PeCDD	33.81	7.32E+07	1.62	Y	0.92	0.94	2%
ES 123478-HxCDD	38.46	5.94E+07	1.16	Y	1.02	1.00	-3%
ES 123678-HxCDD	38.60	5.87E+07	1.19	Y	1.01	0.98	-2%
ES 123789-HxCDD	38.93	6.71E+07	1.19	Y	1.14	1.13	-1%
ES 1234678-HpCDD	42.61	6.07E+07	1.07	Y	1.02	1.02	0%
ES OCDD	46.35	8.63E+07	0.88	Y	0.72	0.72	1%
ES 2378-TCDF	26.55	1.30E+08	0.71	Y	1.01	1.02	1%
ES 12378-PeCDF	32.08	1.16E+08	1.49	Y	0.89	0.91	3%
ES 23478-PeCDF	33.41	1.19E+08	1.49	Y	0.91	0.94	3%
ES 123478-HxCDF	37.29	8.98E+07	0.54	Y	1.53	1.51	-1%
ES 123678-HxCDF	37.46	1.00E+08	0.54	Y	1.73	1.68	-3%
ES 234678-HxCDF	38.24	9.44E+07	0.54	Y	1.61	1.58	-2%
ES 123789-HxCDF	39.35	8.30E+07	0.54	Y	1.39	1.39	0%
ES 1234678-HpCDF	41.34	7.14E+07	0.45	Y	1.20	1.20	0%
ES 1234789-HpCDF	43.22	6.52E+07	0.45	Y	1.07	1.10	2%
ES OCDF	46.60	1.28E+08	0.90	Y	1.04	1.07	3%

Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 15:09 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS4		UTP: 18-Sep-2013 16:08 MDC			Checkcode: 777-980		
Sample ID: 11012012A		Report: 19 Sep 2013 09:12 MC			Datafile: 130918P1-06		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
JS 1234-TCDD	26.80	7.80E+07	0.81	Y	-	-	-
JS 1234-TCDF	25.02	1.27E+08	0.74	Y	-	-	-
JS 123467-HxCDD	38.82	2.98E+07	1.19	Y	-	-	-
CS 37C1-2378-TCDD	27.57	3.72E+07	n/a	-	1.13	1.19	5%
CS 12347-PeCDD	33.22	7.15E+07	1.63	Y	0.88	0.92	5%
CS 12346-PeCDF	31.47	1.19E+08	1.47	Y	0.90	0.93	3%
CS 123469-HxCDF	37.82	8.29E+07	0.54	Y	1.40	1.39	-1%
CS 1234689-HpCDF	41.89	6.66E+07	0.45	Y	1.09	1.12	2%
SS 37C1-2378-TCDD	27.57	3.72E+07	n/a	-	1.11	1.13	1%
SS 12347-PeCDD	33.22	7.15E+07	1.63	Y	0.96	0.98	2%
SS 12346-PeCDF	31.47	1.19E+08	1.47	Y	1.02	1.02	0%
SS 123469-HxCDF	37.82	8.29E+07	0.54	Y	0.81	0.83	2%
SS 1234689-HpCDF	41.89	6.66E+07	0.45	Y	0.91	0.93	2%
AS 1368-TCDD	23.44	7.88E+07	0.80	Y	1.01	1.01	0%
AS 1368-TCDF	21.23	1.55E+08	0.74	Y	1.22	1.22	0%
FS 1278-TCDD	27.92	9.66E+07	0.81	Y	1.18	1.17	0%
FS 12478-PeCDD	32.37	7.66E+07	1.57	Y	1.06	1.05	-1%
FS 123468-HxCDD	37.21	7.48E+07	1.19	Y	1.26	1.26	0%
FS 1234679-HpCDD	41.71	6.88E+07	1.06	Y	1.12	1.13	1%
TS 1378-TCDD	25.67	9.02E+07	0.80	Y	1.11	1.09	-1%
OCDD-a	46.36	1.21E+07	2.67	Y	0.07	0.07	3%
OCDF-a	46.61	1.62E+07	2.68	Y	0.06	0.06	0%

SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

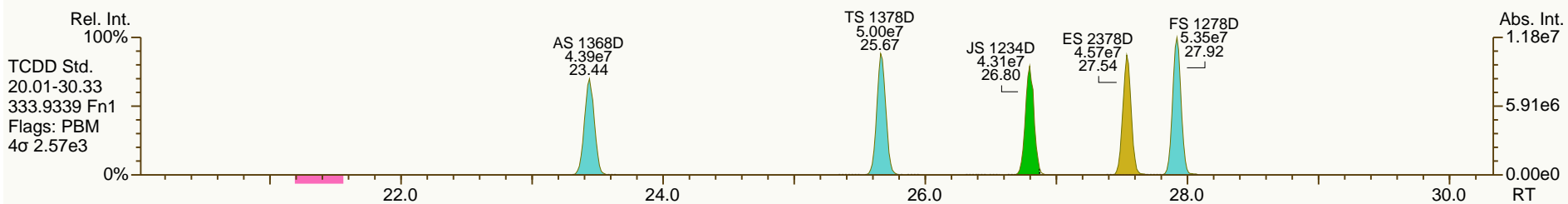
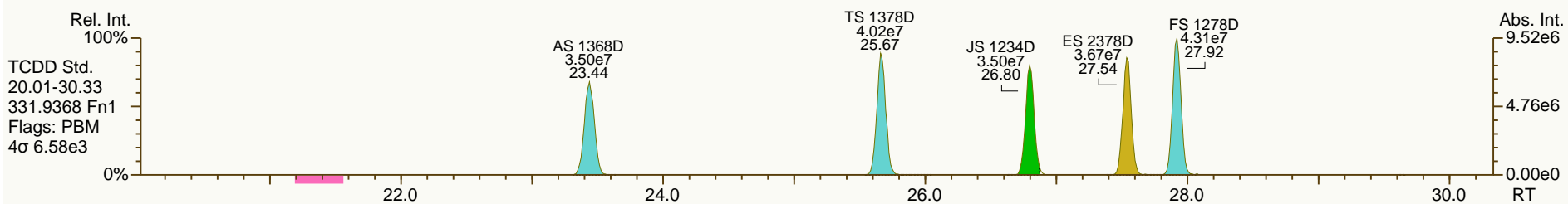
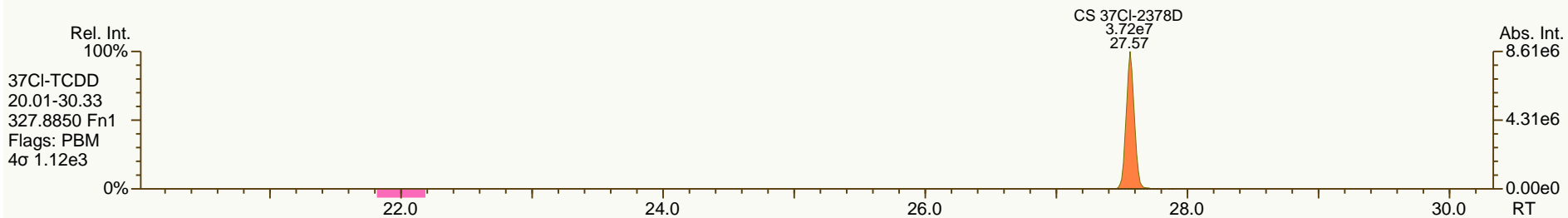
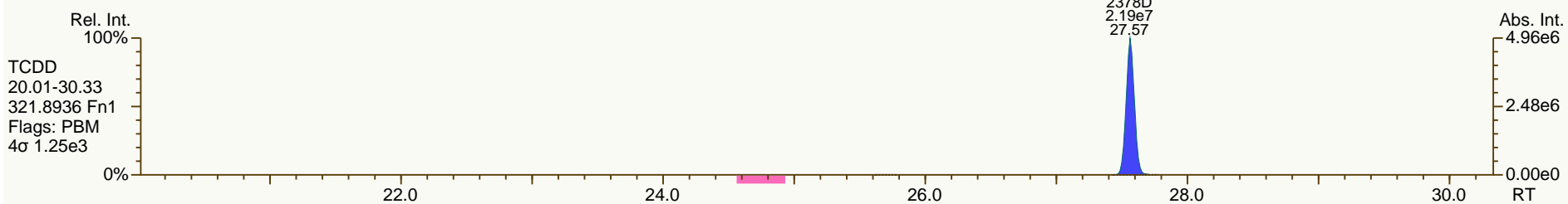
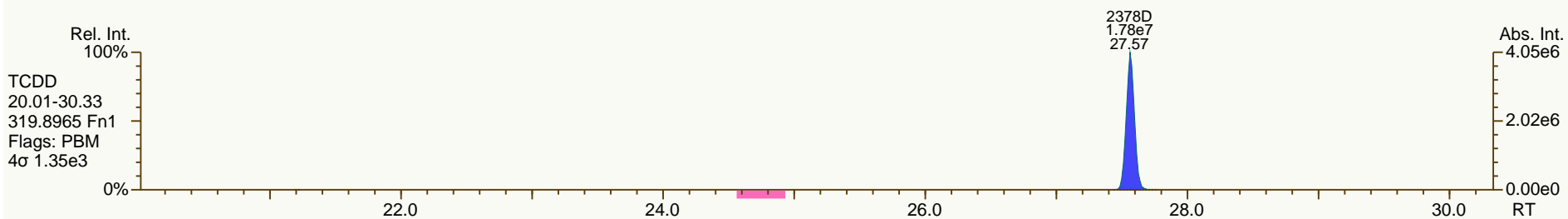
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

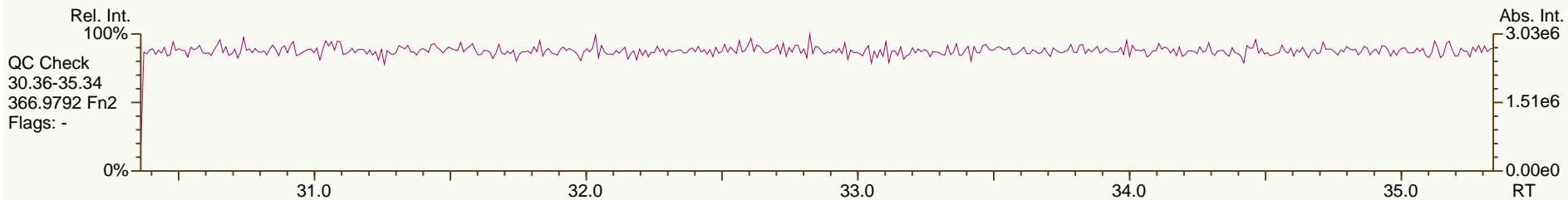
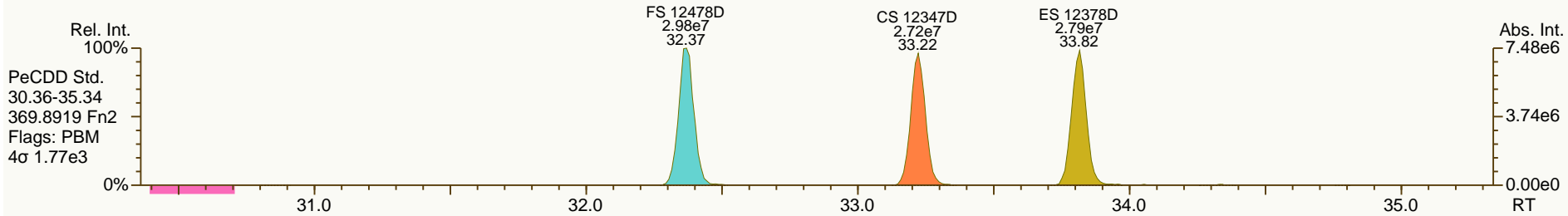
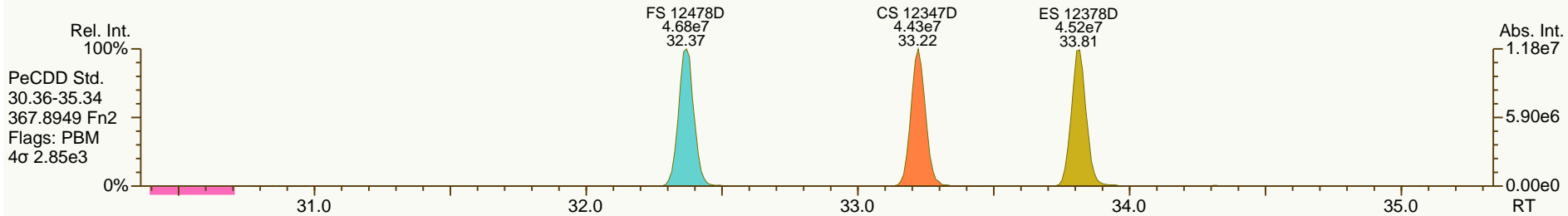
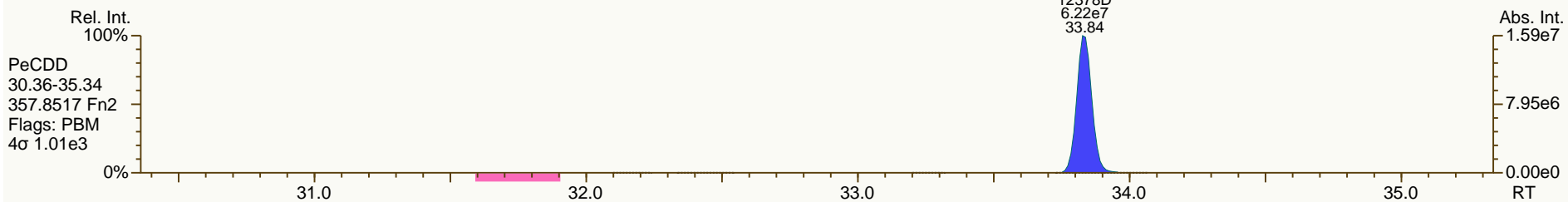
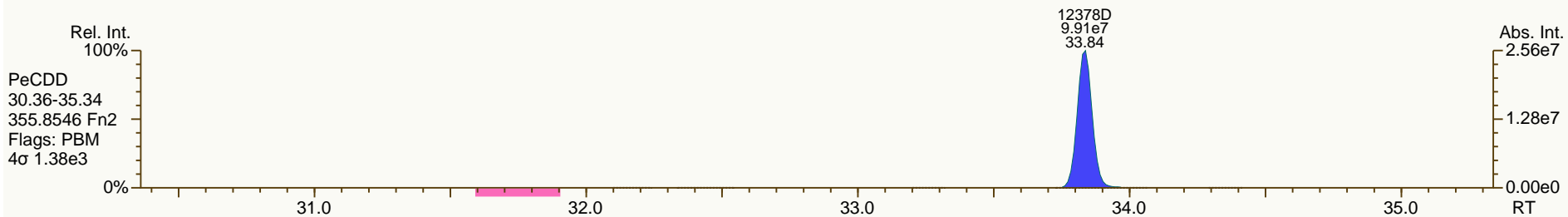
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

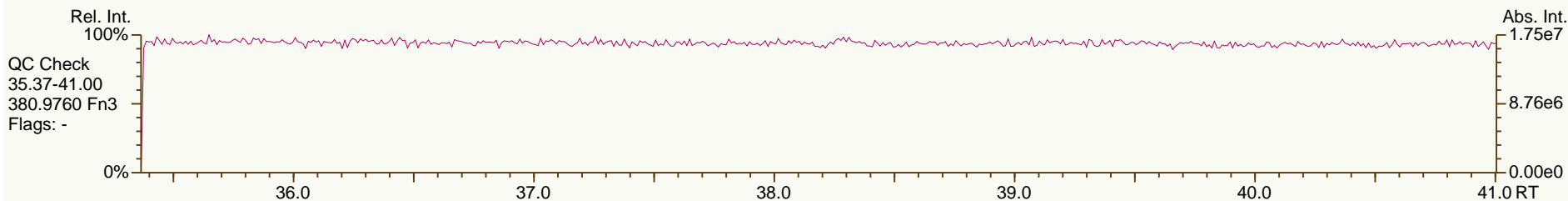
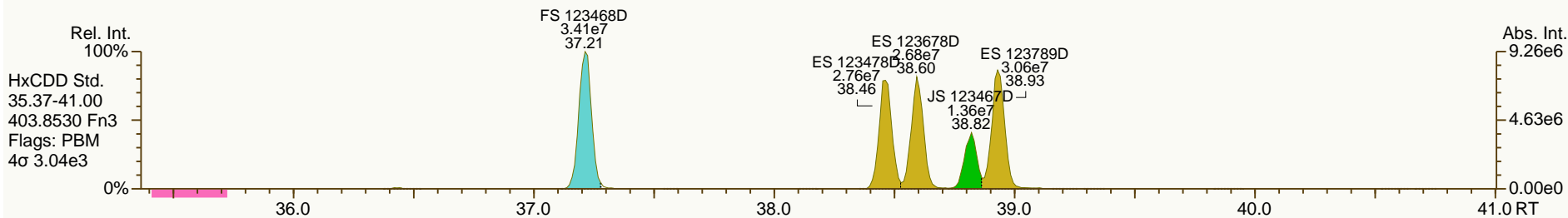
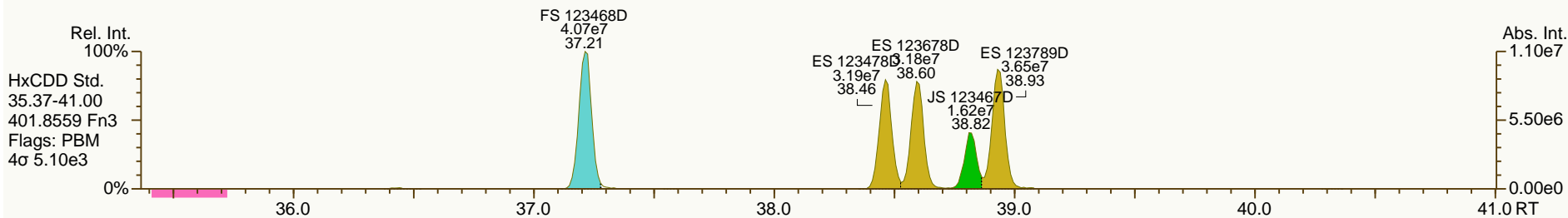
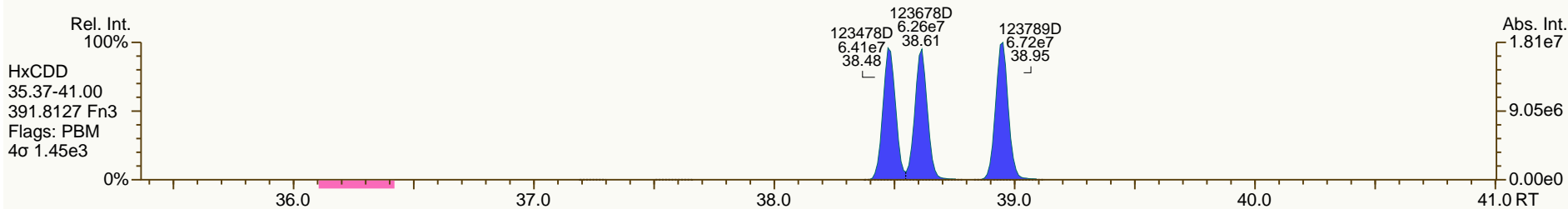
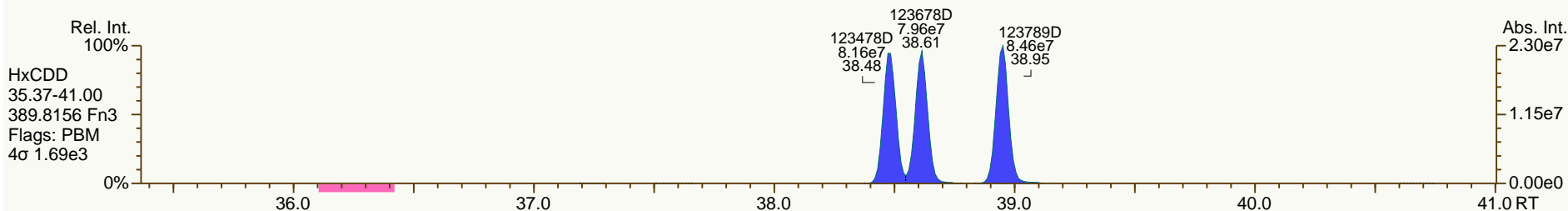
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

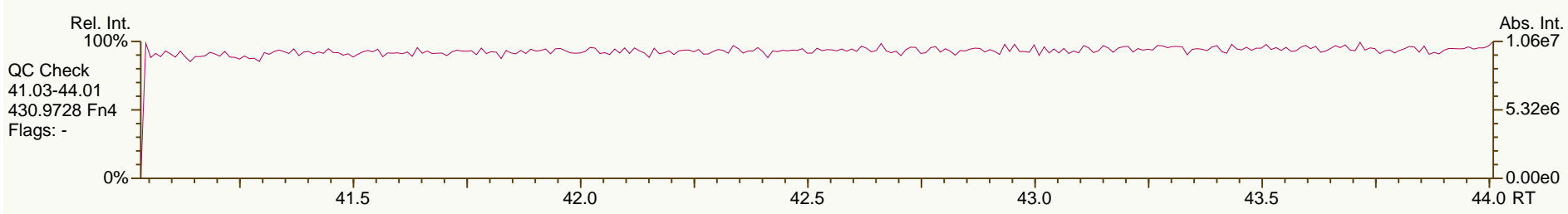
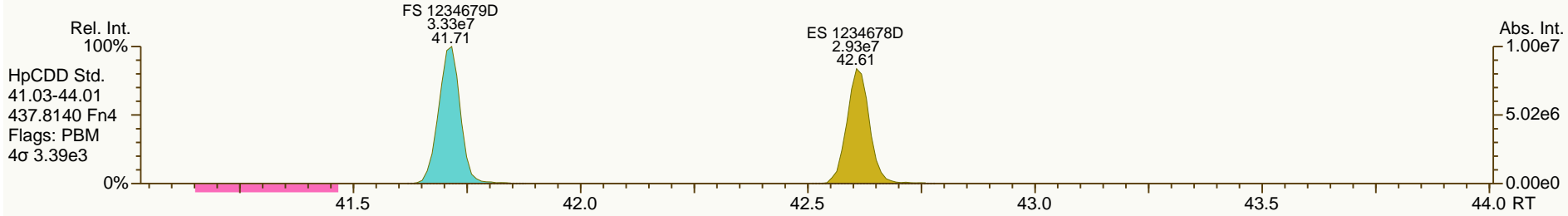
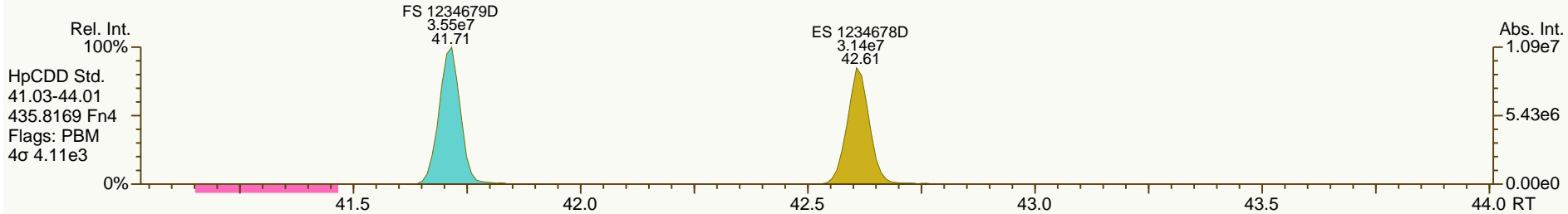
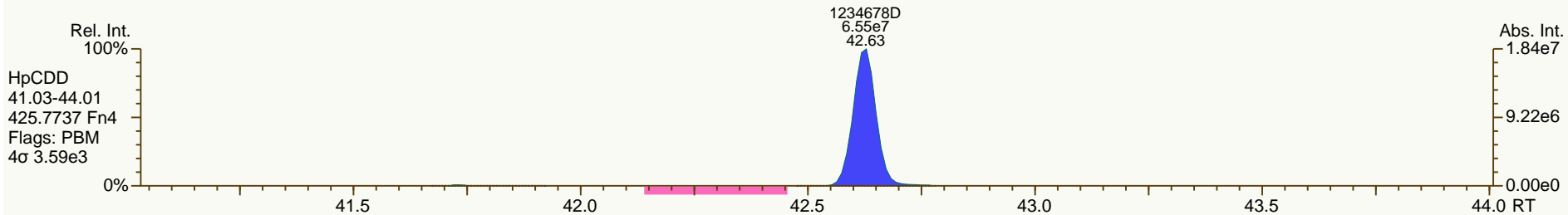
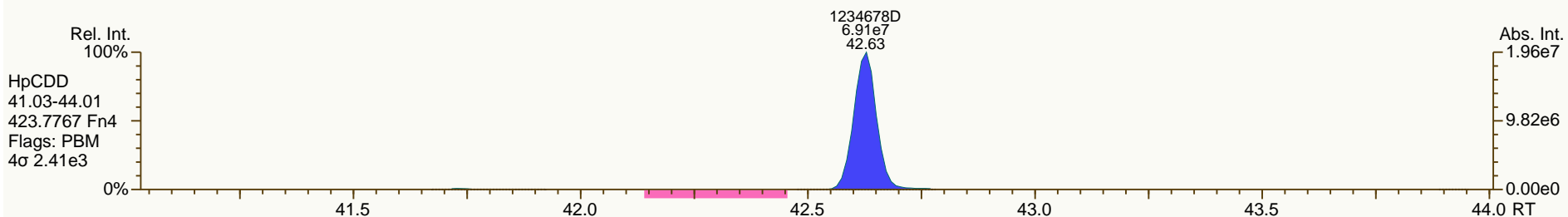
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

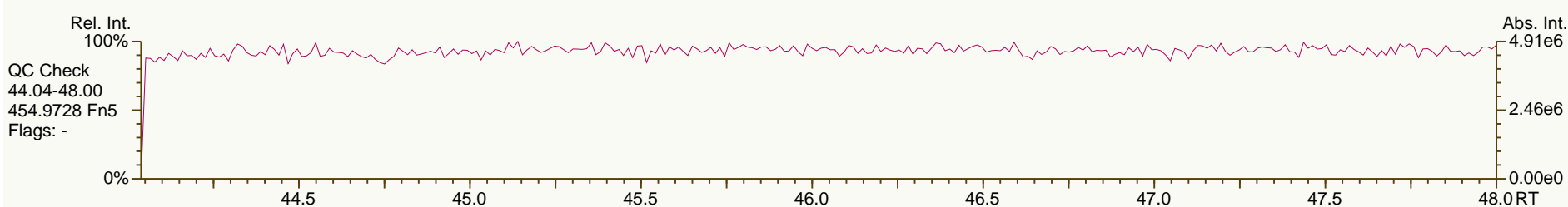
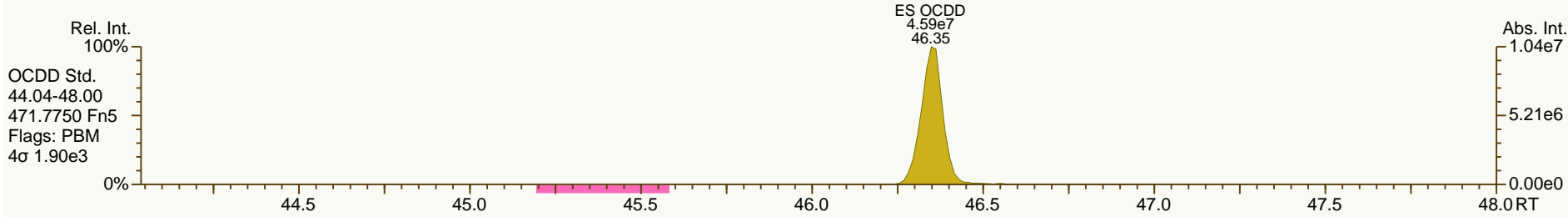
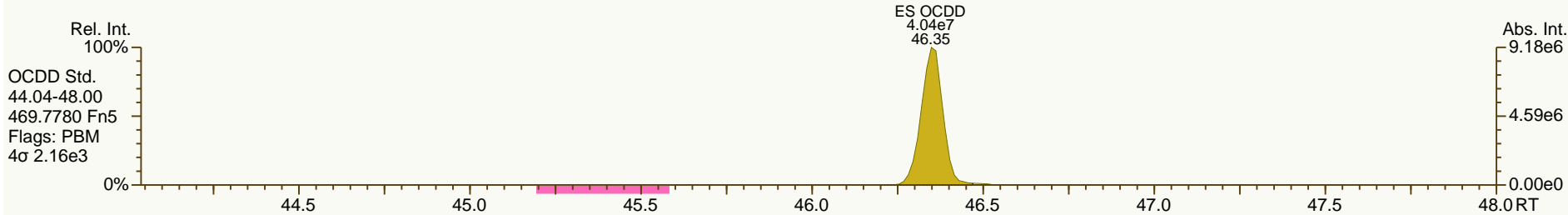
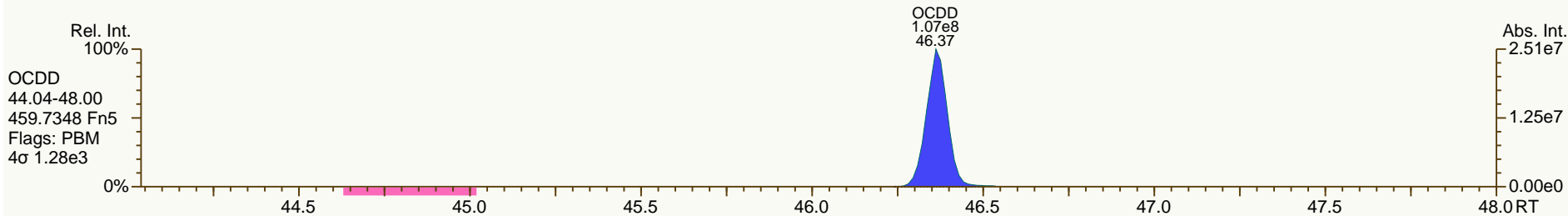
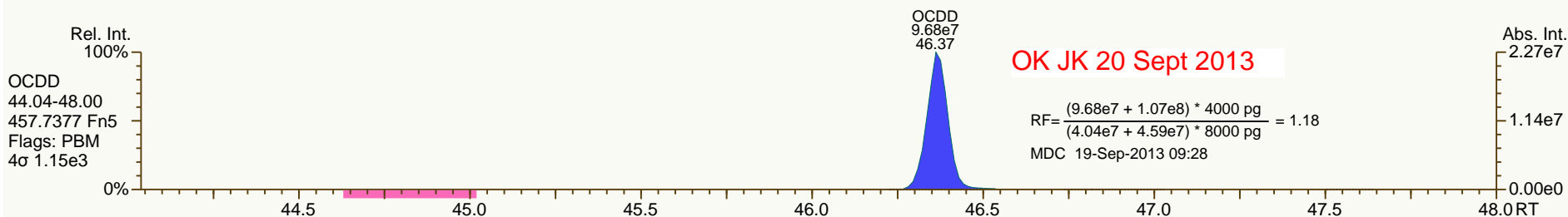
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

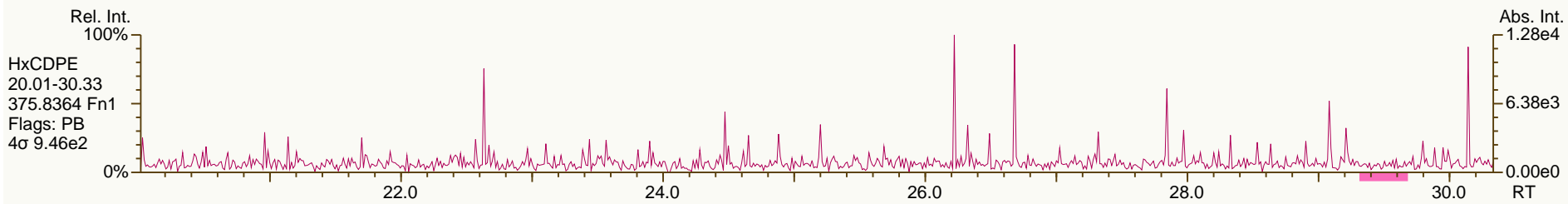
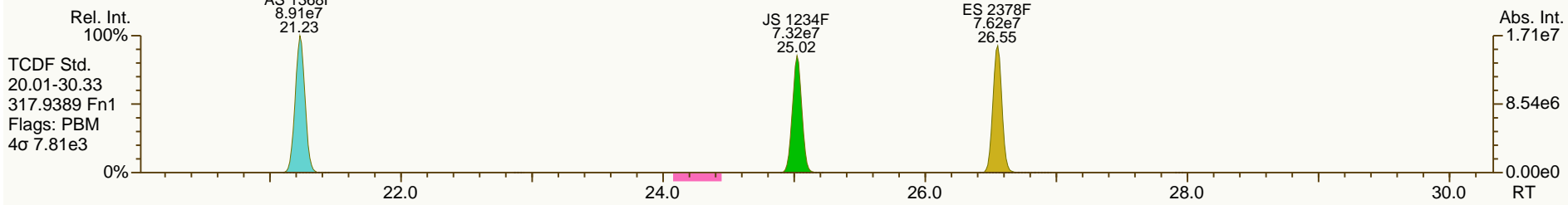
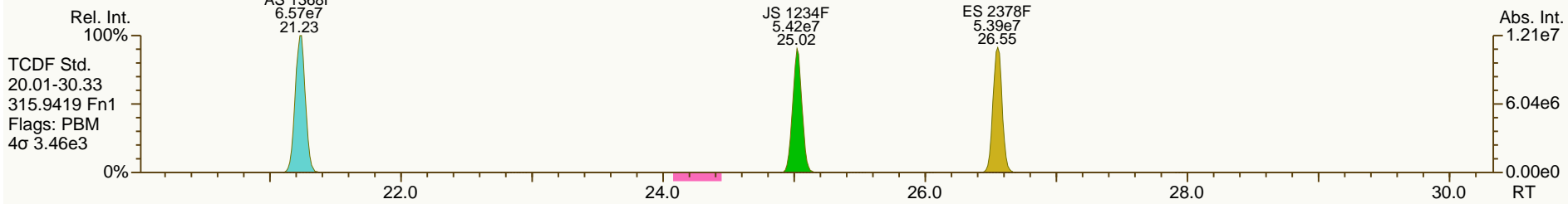
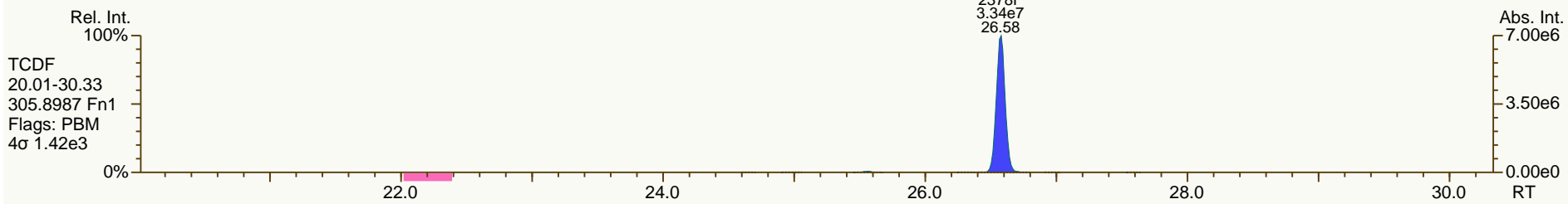
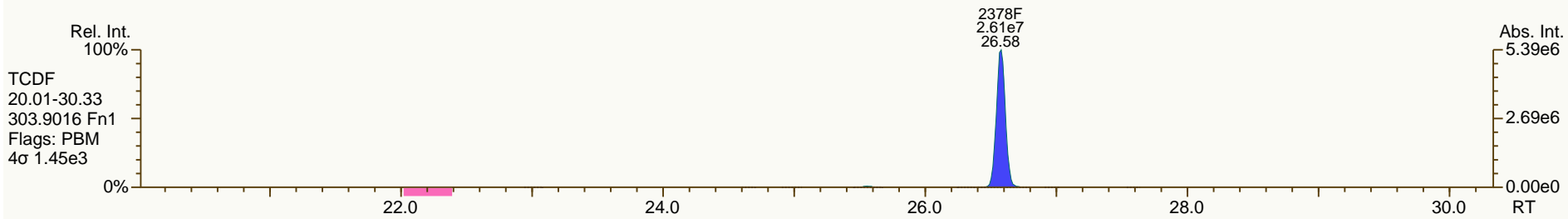
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

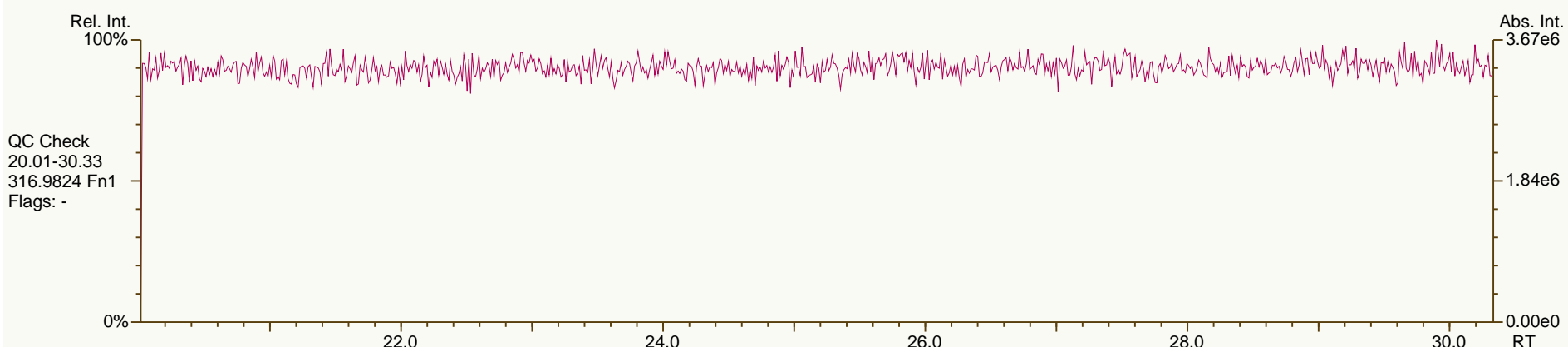
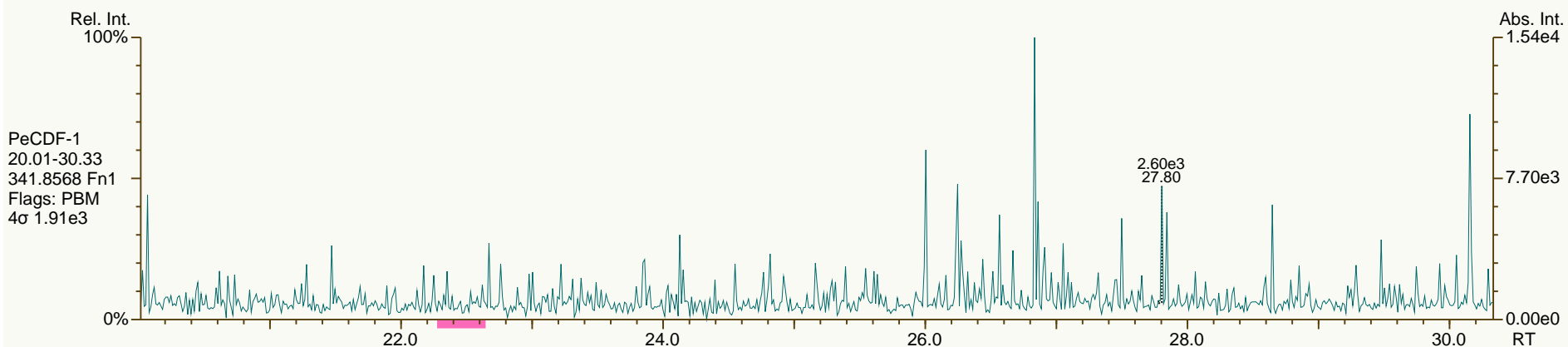
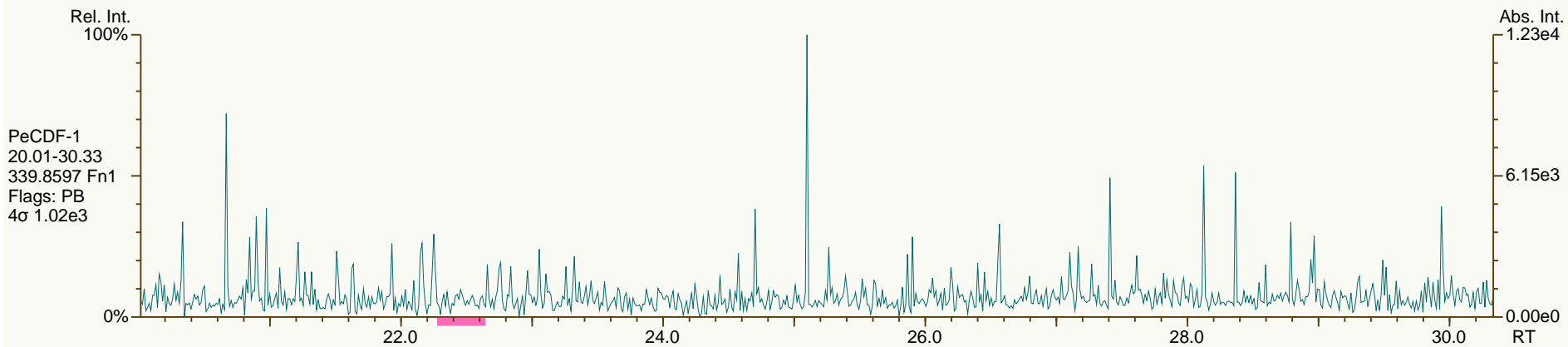
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

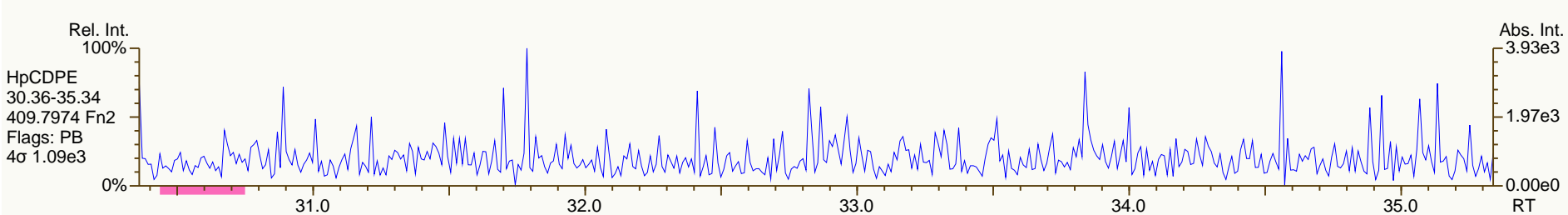
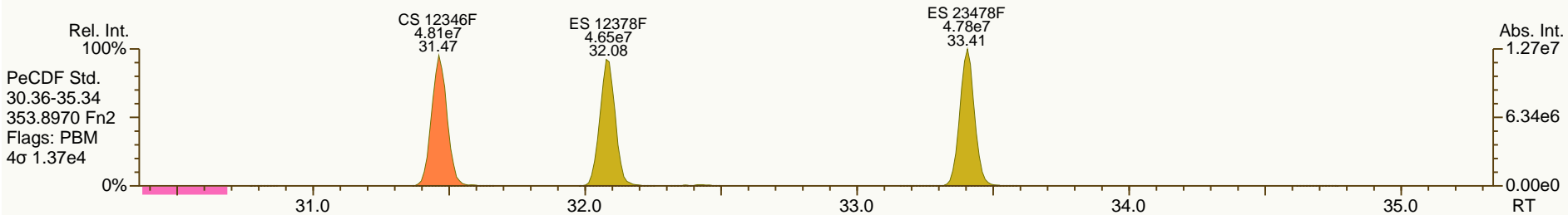
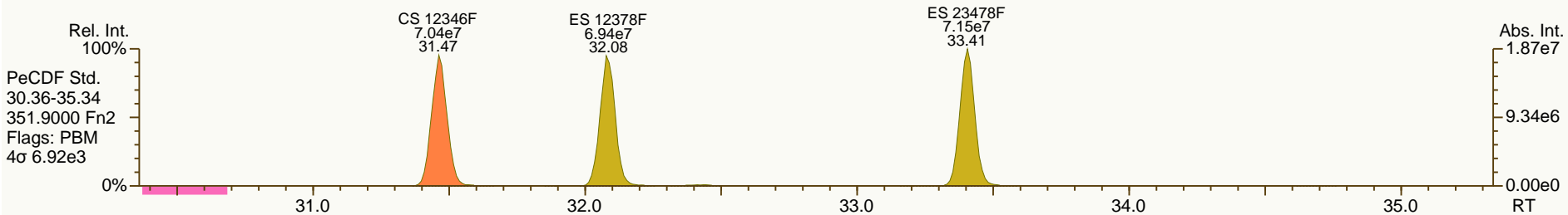
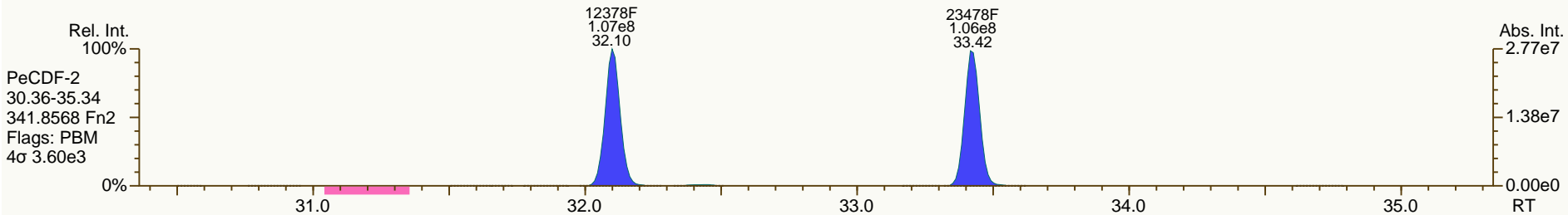
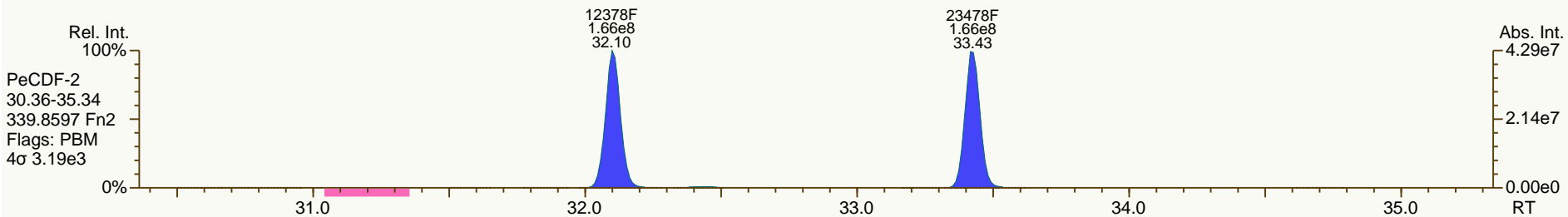
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

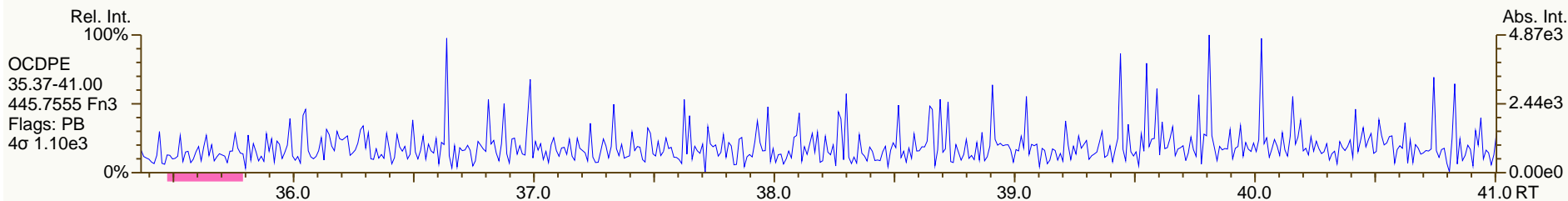
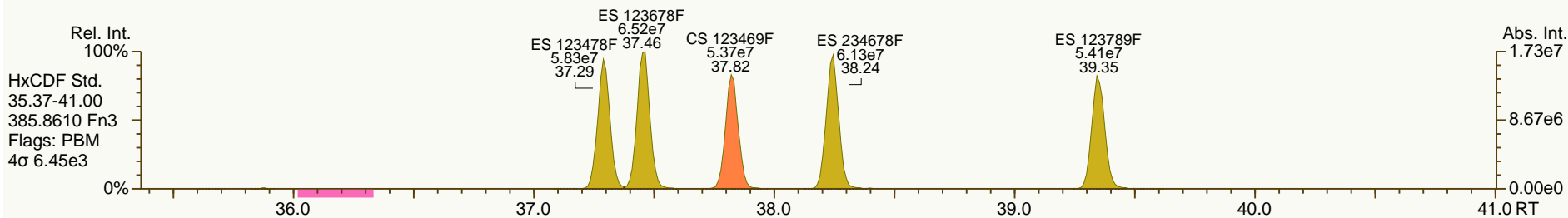
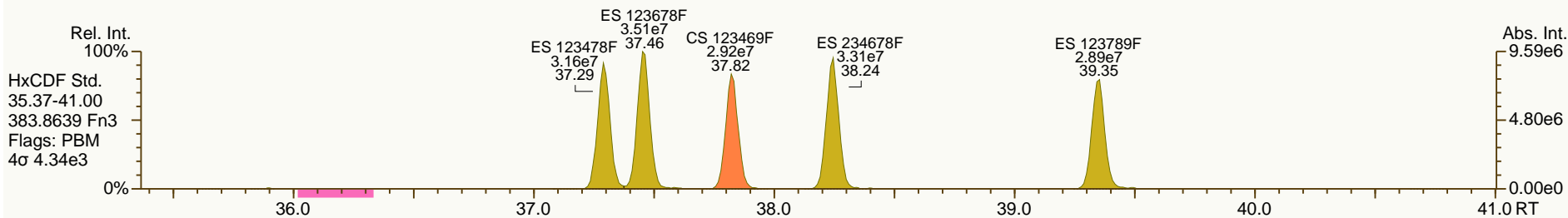
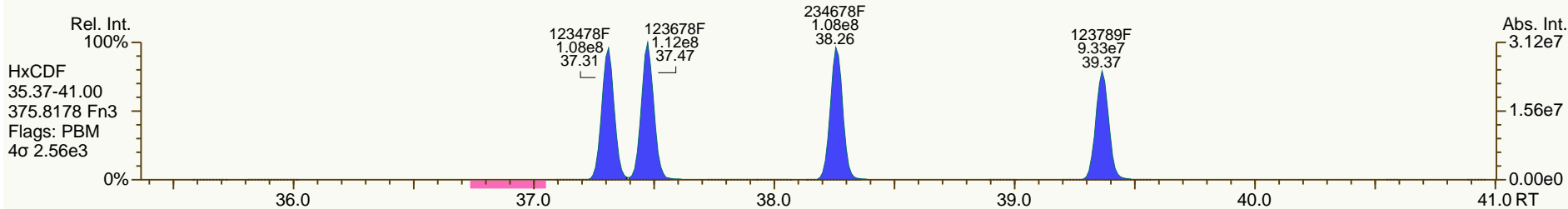
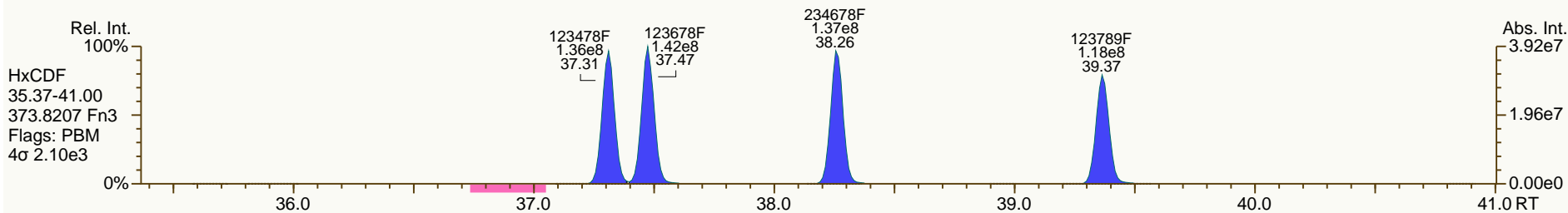
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

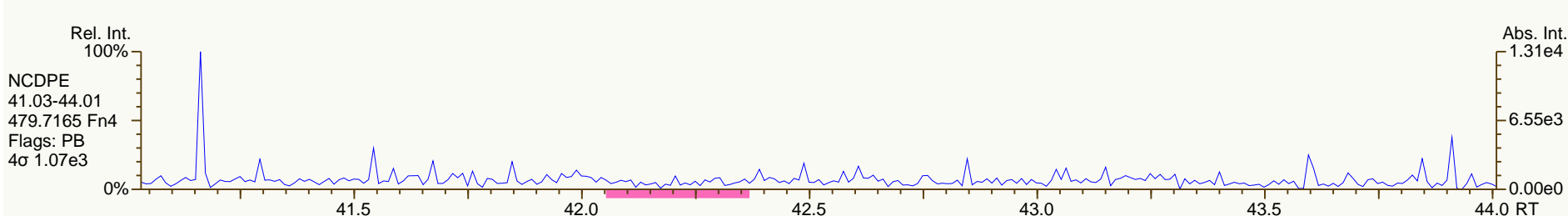
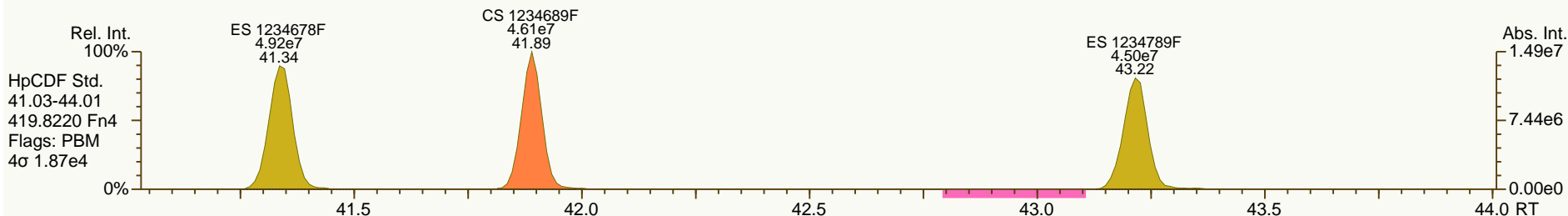
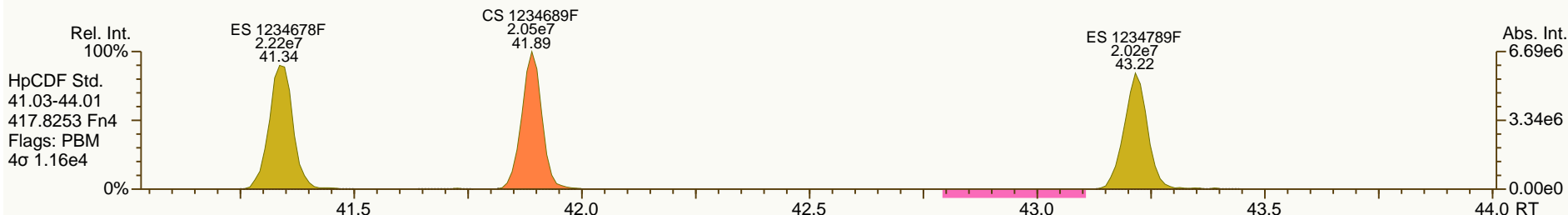
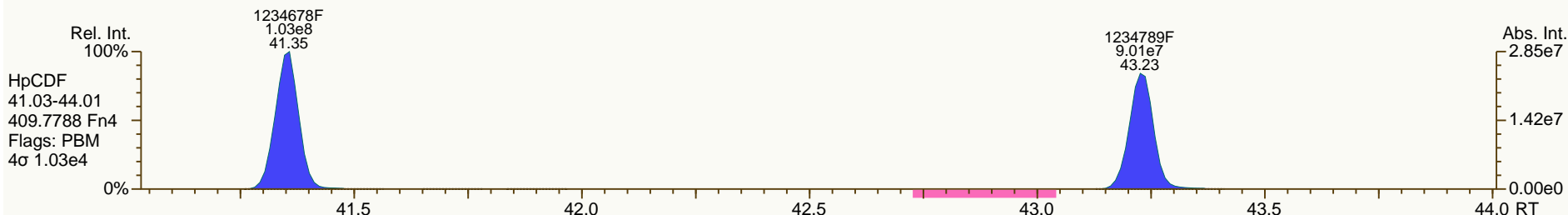
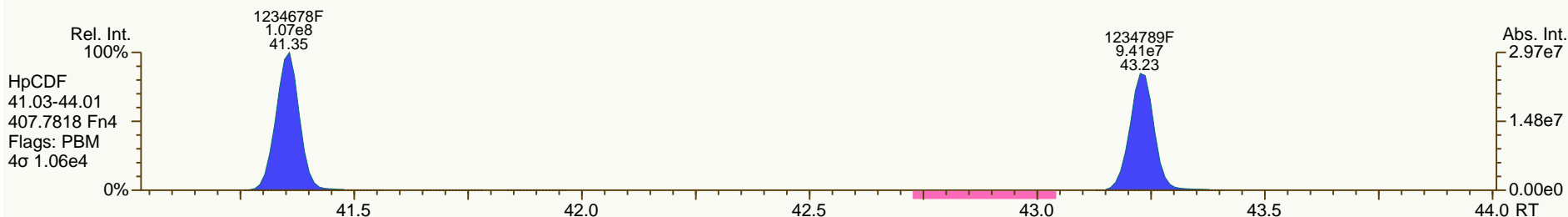
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

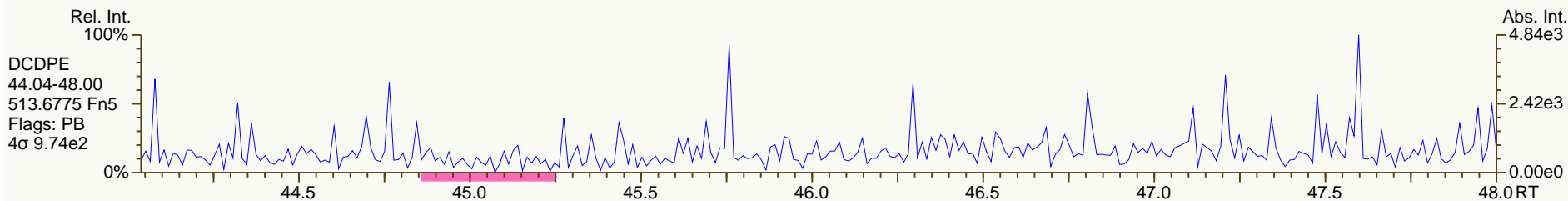
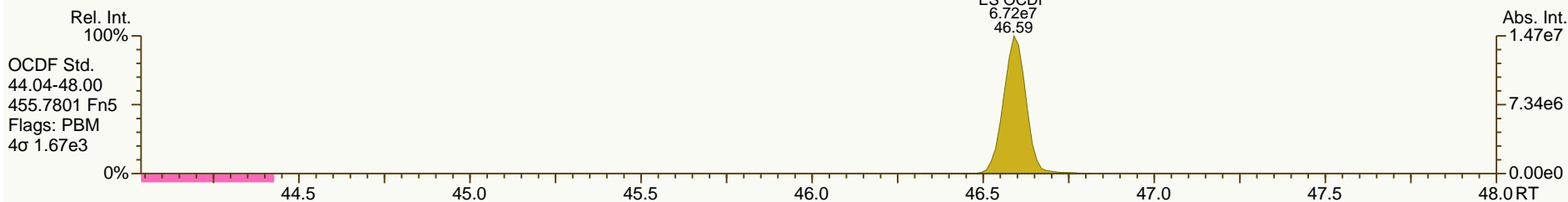
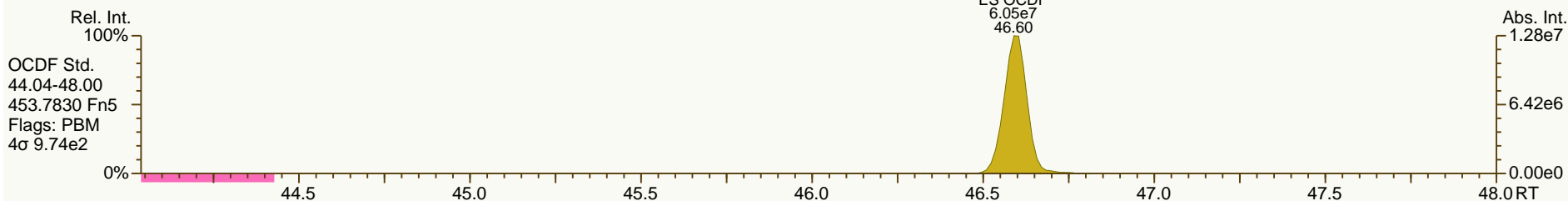
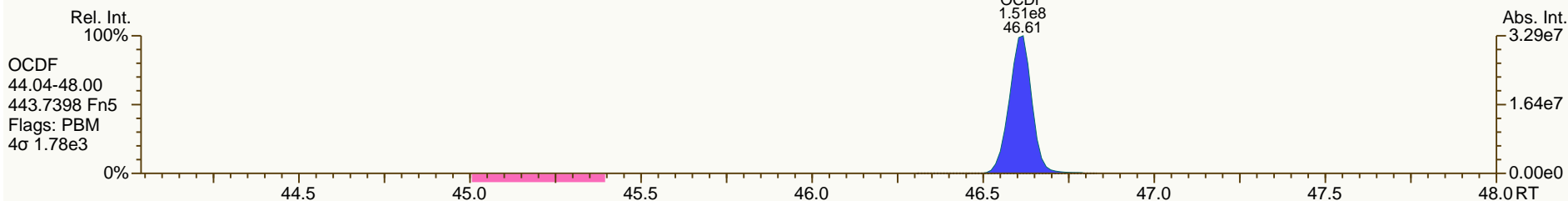
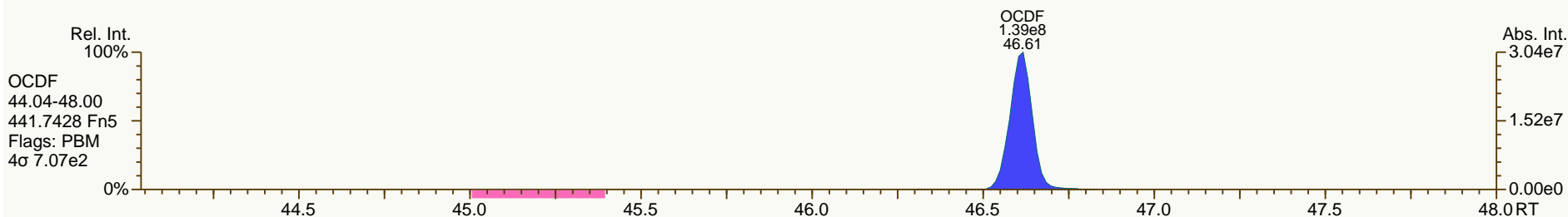
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

Acq: 18-SEP-2013 15:09:42
 User: MDC Datafile: 130918P1-06



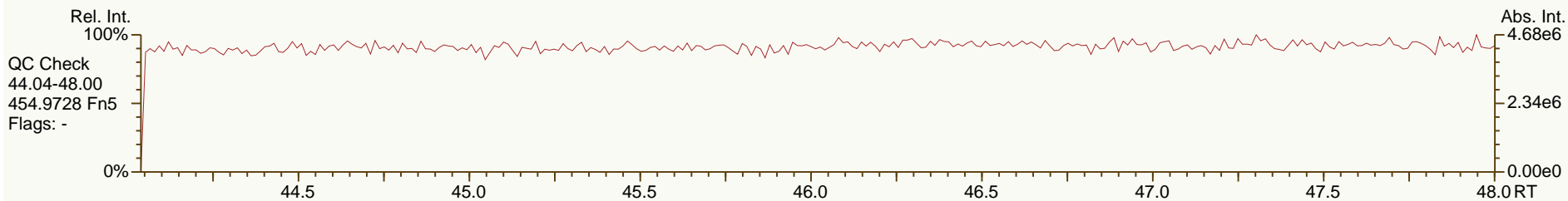
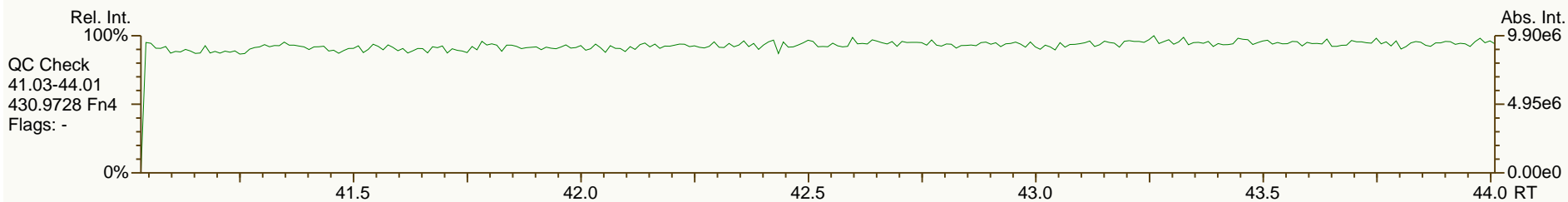
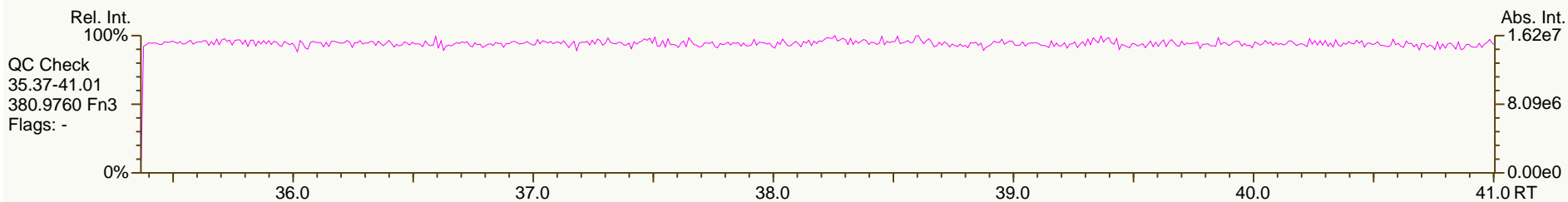
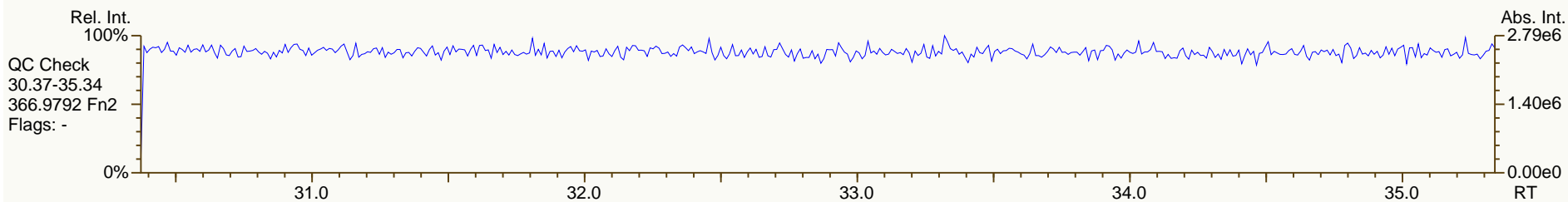
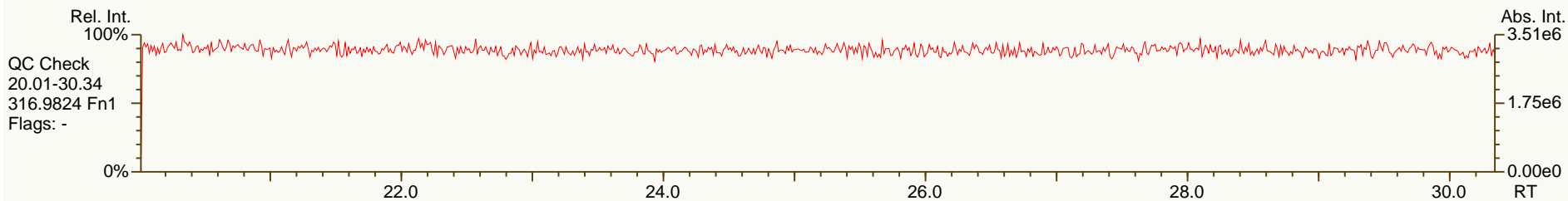
Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 16:02 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS5		UTP: 18-Sep-2013 16:57 MDC			Checkcode: 467-721-YJW		
Sample ID: 11012012A		Report: 19 Sep 2013 09:12 MC			Datafile: 130918P1-07		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.56	1.88E+08	0.80	Y	1.18	1.25	5%
12378-PeCDD	33.83	7.84E+08	1.60	Y	1.07	1.13	5%
123478-HxCDD	38.48	7.19E+08	1.28	Y	1.19	1.25	5%
123678-HxCDD	38.61	6.93E+08	1.27	Y	1.19	1.18	-1%
123789-HxCDD	38.95	7.44E+08	1.27	Y	1.12	1.15	3%
1234678-HpCDD	42.63	6.44E+08	1.05	Y	1.08	1.13	4%
OCDD	46.37	9.89E+08	0.91	Y	1.14	1.18	3%
2378-TCDF	26.57	2.65E+08	0.77	Y	1.10	1.09	0%
12378-PeCDF	32.10	1.31E+09	1.55	Y	1.17	1.18	1%
23478-PeCDF	33.42	1.32E+09	1.56	Y	1.14	1.17	2%
123478-HxCDF	37.31	1.19E+09	1.26	Y	1.34	1.37	3%
123678-HxCDF	37.47	1.27E+09	1.26	Y	1.23	1.29	5%
234678-HxCDF	38.26	1.18E+09	1.26	Y	1.26	1.29	3%
123789-HxCDF	39.37	1.02E+09	1.27	Y	1.23	1.29	5%
1234678-HpCDF	41.35	9.94E+08	1.04	Y	1.42	1.49	5%
1234789-HpCDF	43.23	8.72E+08	1.05	Y	1.39	1.45	4%
OCDF	46.62	1.42E+09	0.92	Y	1.11	1.15	4%
ES 2378-TCDD	27.54	7.56E+07	0.82	Y	1.02	1.03	1%
ES 12378-PeCDD	33.81	6.92E+07	1.59	Y	0.92	0.94	3%
ES 123478-HxCDD	38.46	5.76E+07	1.21	Y	1.02	1.08	6%
ES 123678-HxCDD	38.59	5.85E+07	1.22	Y	1.01	1.10	9%
ES 123789-HxCDD	38.93	6.45E+07	1.17	Y	1.14	1.21	6%
ES 1234678-HpCDD	42.61	5.69E+07	1.07	Y	1.02	1.07	5%
ES OCDD	46.36	8.38E+07	0.89	Y	0.72	0.79	9%
ES 2378-TCDF	26.55	1.21E+08	0.75	Y	1.01	1.02	2%
ES 12378-PeCDF	32.08	1.12E+08	1.50	Y	0.89	0.94	6%
ES 23478-PeCDF	33.40	1.12E+08	1.48	Y	0.91	0.95	5%
ES 123478-HxCDF	37.29	8.68E+07	0.53	Y	1.53	1.63	7%
ES 123678-HxCDF	37.46	9.90E+07	0.53	Y	1.73	1.86	8%
ES 234678-HxCDF	38.24	9.14E+07	0.54	Y	1.61	1.72	7%
ES 123789-HxCDF	39.35	7.94E+07	0.53	Y	1.39	1.49	7%
ES 1234678-HpCDF	41.34	6.68E+07	0.46	Y	1.20	1.26	5%
ES 1234789-HpCDF	43.22	6.03E+07	0.45	Y	1.07	1.13	6%
ES OCDF	46.60	1.24E+08	0.90	Y	1.04	1.16	11%

Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 16:02 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS5		UTP: 18-Sep-2013 16:57 MDC			Checkcode: 467-721		
Sample ID: 11012012A		Report: 19 Sep 2013 09:12 MC			Datafile: 130918P1-07		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
JS 1234-TCDD	26.79	7.34E+07	0.82	Y	-	-	-
JS 1234-TCDF	25.02	1.19E+08	0.73	Y	-	-	-
JS 123467-HxCDD	38.81	2.66E+07	1.18	Y	-	-	-
CS 37C1-2378-TCDD	27.56	1.78E+08	n/a	-	1.13	1.21	7%
CS 12347-PeCDD	33.22	6.35E+07	1.60	Y	0.88	0.86	-1%
CS 12346-PeCDF	31.46	1.05E+08	1.51	Y	0.90	0.88	-2%
CS 123469-HxCDF	37.82	7.41E+07	0.53	Y	1.40	1.39	-1%
CS 1234689-HpCDF	41.89	5.65E+07	0.44	Y	1.09	1.06	-3%
SS 37C1-2378-TCDD	27.56	1.78E+08	n/a	-	1.11	1.18	6%
SS 12347-PeCDD	33.22	6.35E+07	1.60	Y	0.96	0.92	-4%
SS 12346-PeCDF	31.46	1.05E+08	1.51	Y	1.02	0.94	-8%
SS 123469-HxCDF	37.82	7.41E+07	0.53	Y	0.81	0.75	-8%
SS 1234689-HpCDF	41.89	5.65E+07	0.44	Y	0.91	0.85	-7%
AS 1368-TCDD	23.43	7.42E+07	0.80	Y	1.01	1.01	0%
AS 1368-TCDF	21.23	1.46E+08	0.75	Y	1.22	1.23	1%
FS 1278-TCDD	27.92	8.95E+07	0.80	Y	1.18	1.18	1%
FS 12478-PeCDD	32.36	6.98E+07	1.58	Y	1.06	1.01	-5%
FS 123468-HxCDD	37.21	6.81E+07	1.18	Y	1.26	1.18	-6%
FS 1234679-HpCDD	41.71	5.88E+07	1.08	Y	1.12	1.03	-8%
TS 1378-TCDD	25.66	8.30E+07	0.81	Y	1.11	1.10	-1%
OCDD-a	46.37	5.93E+07	2.59	Y	0.07	0.07	4%
OCDF-a	46.61	8.08E+07	2.59	Y	0.06	0.07	3%

SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

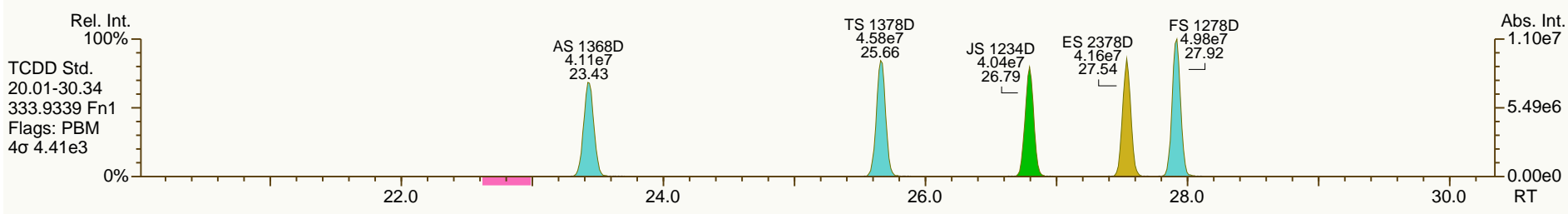
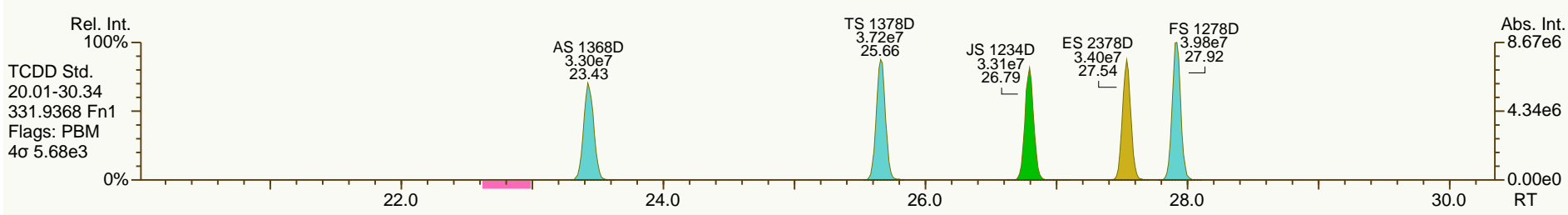
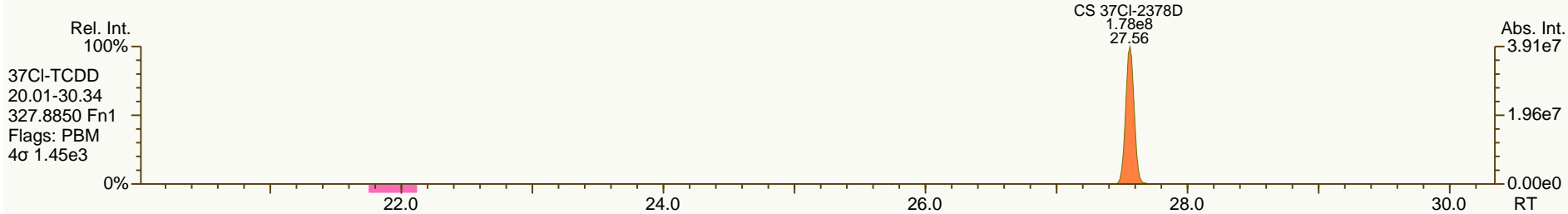
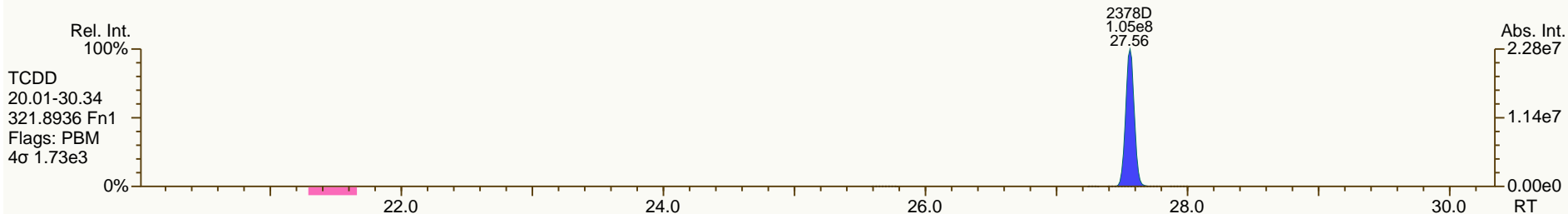
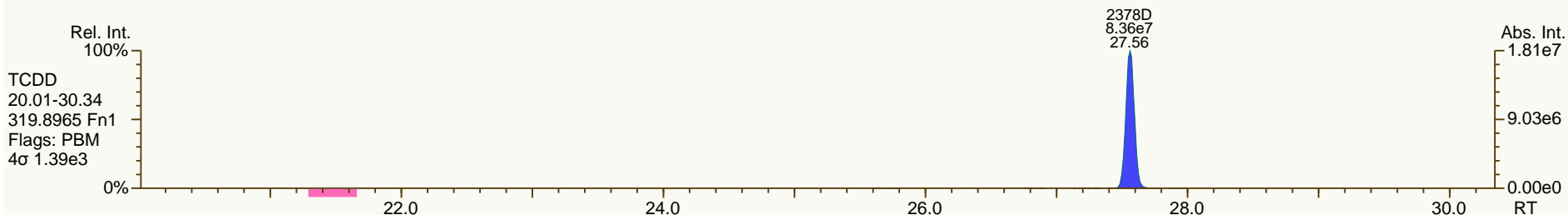
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SGS-AP ID: CS5
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

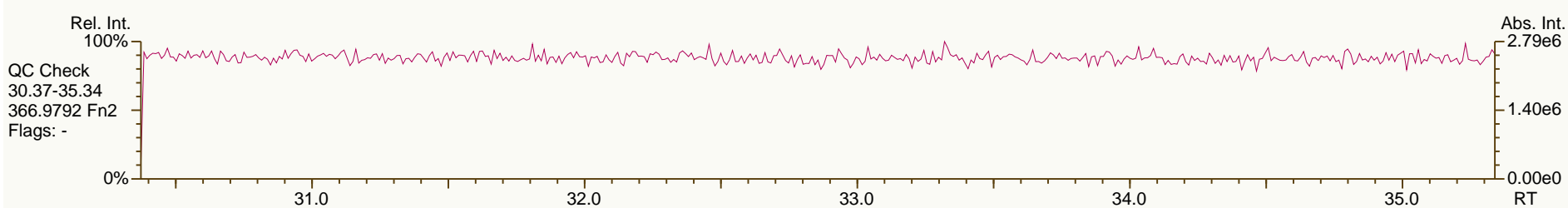
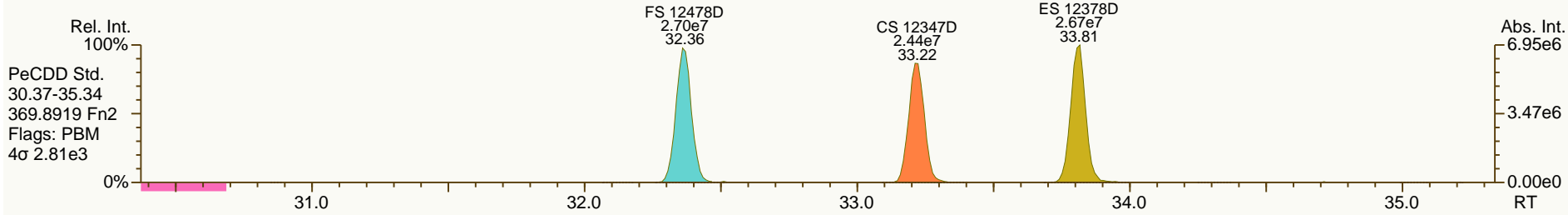
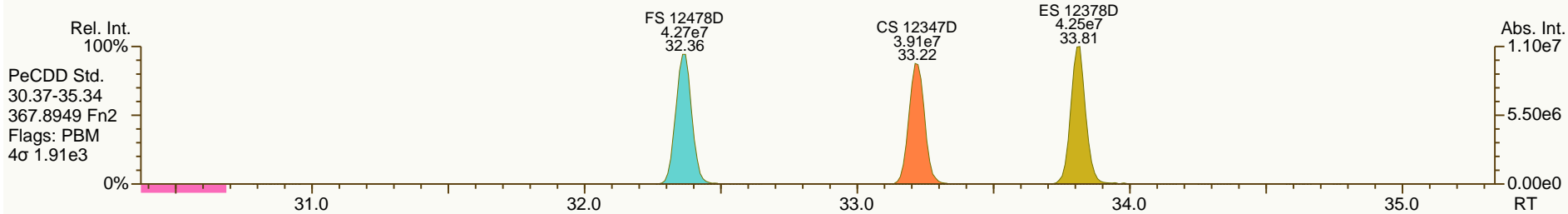
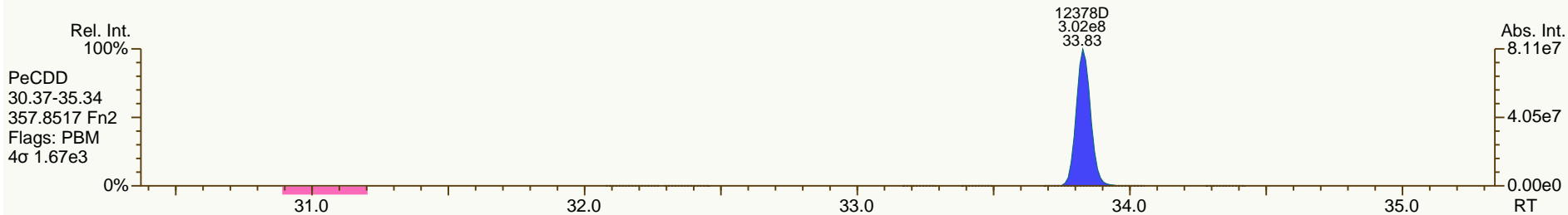
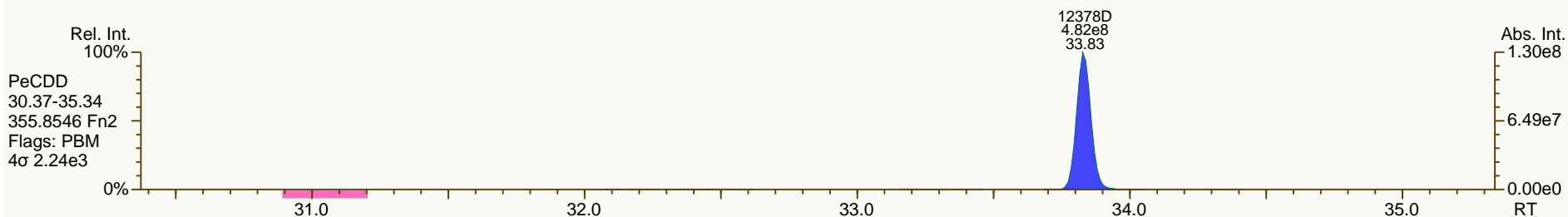
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SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

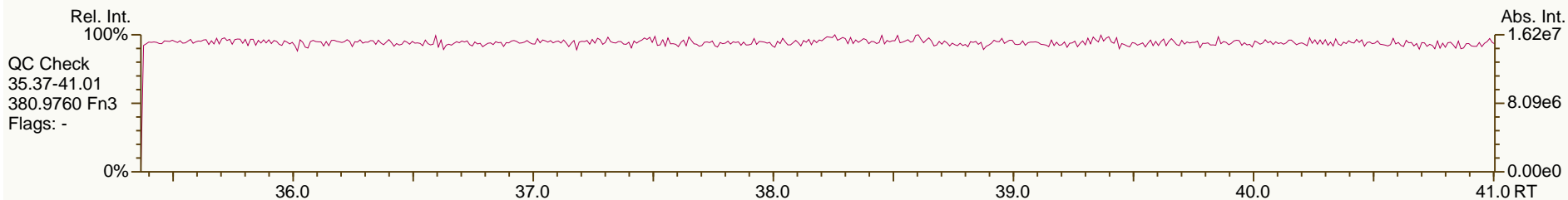
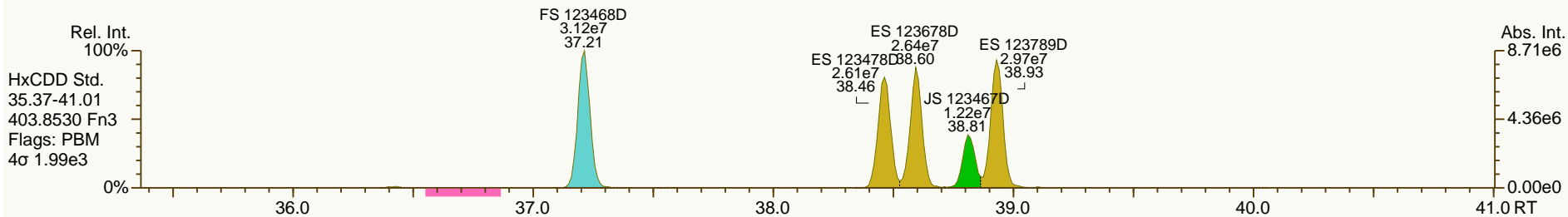
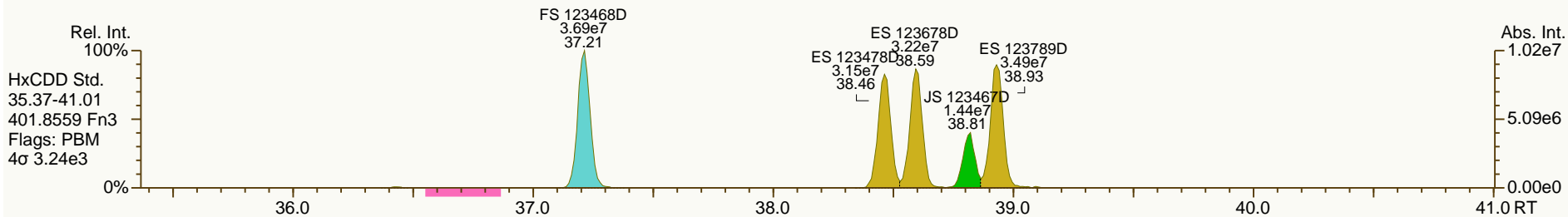
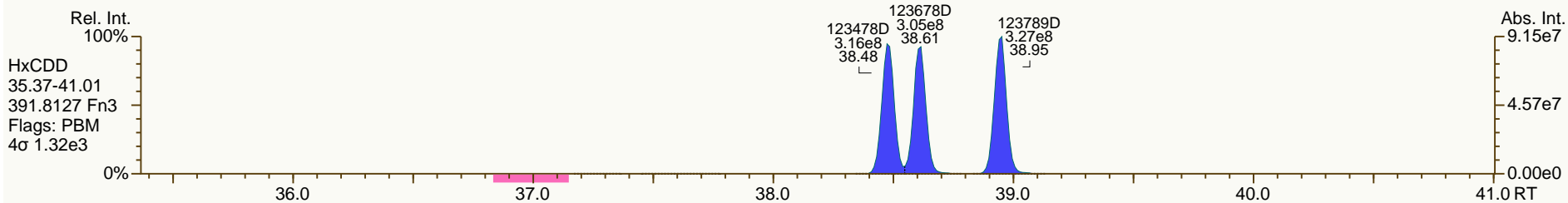
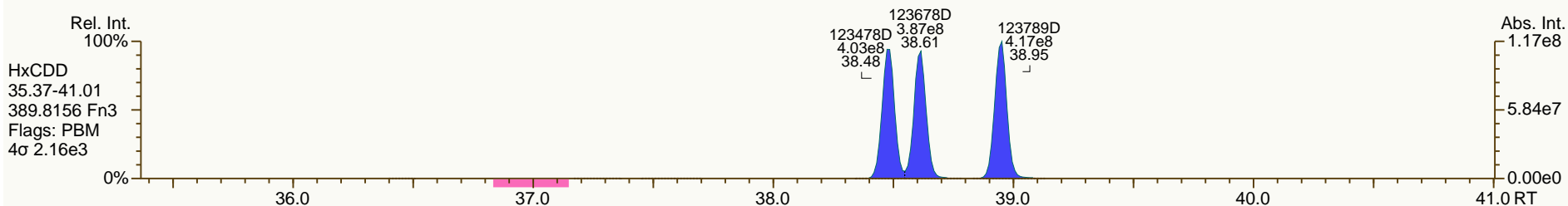
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SGS-AP ID: CS5
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

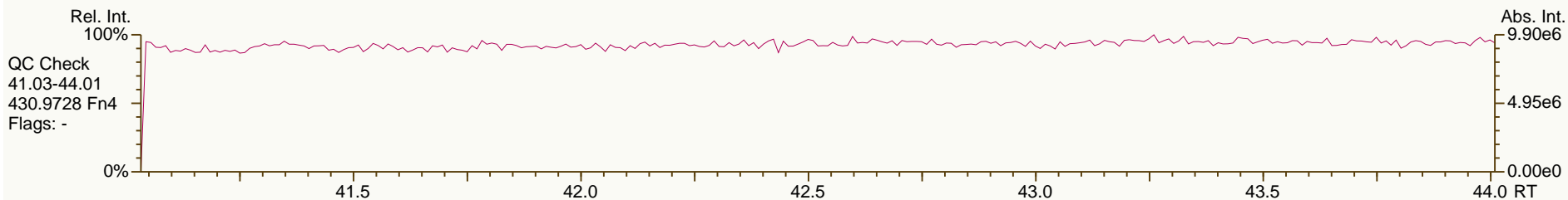
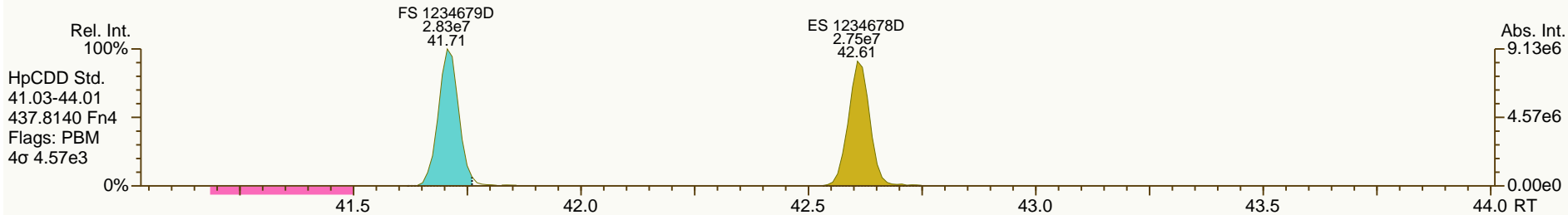
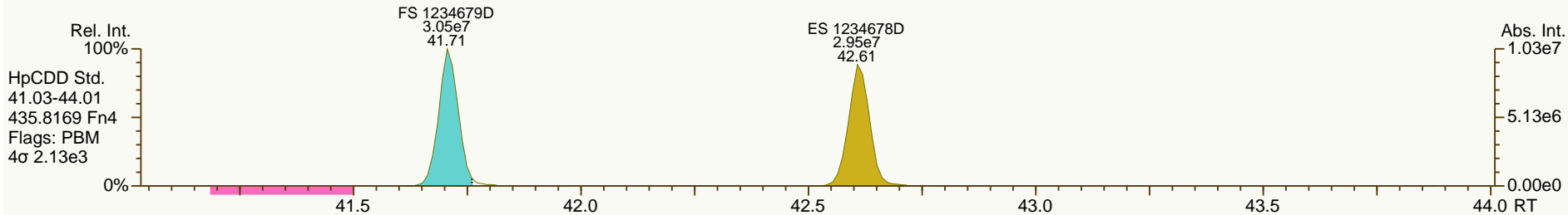
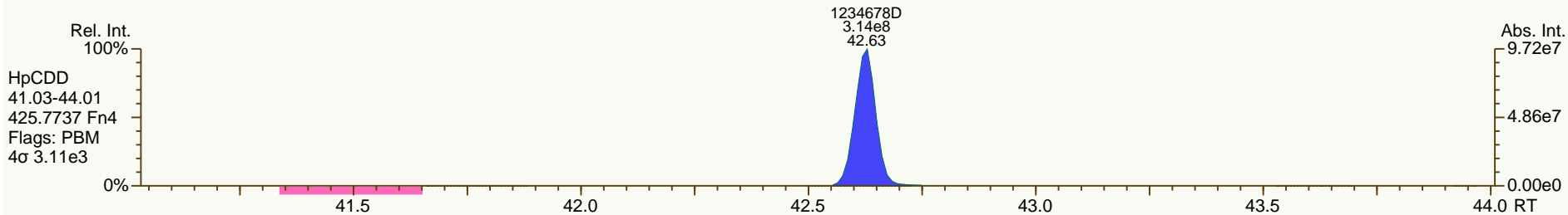
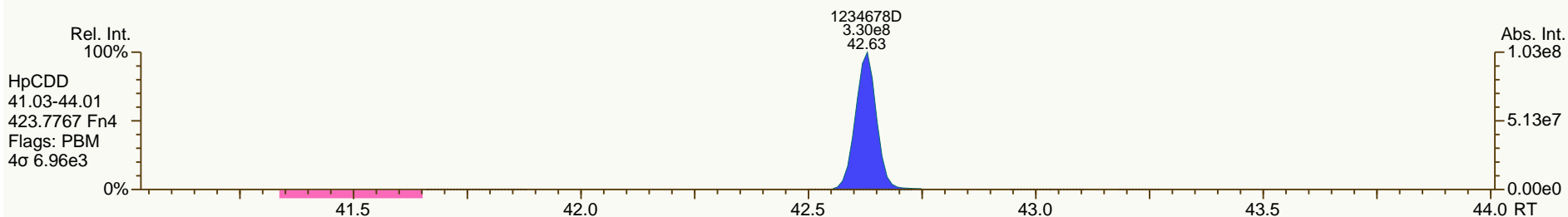
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SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

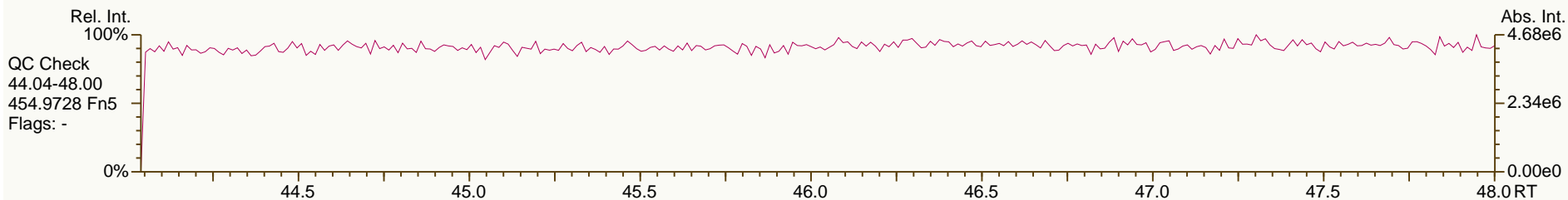
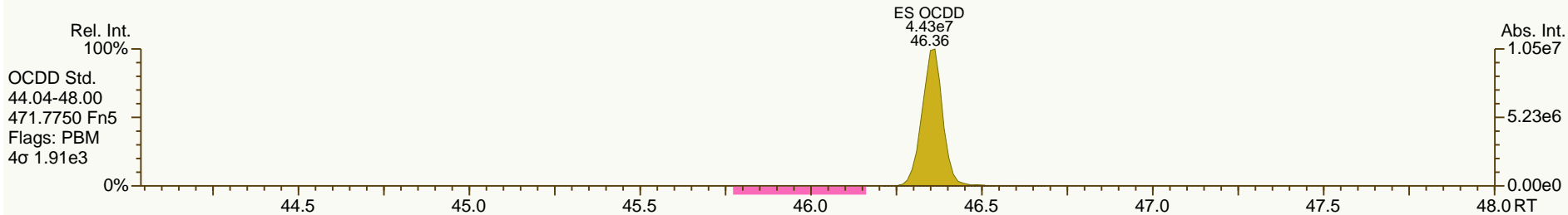
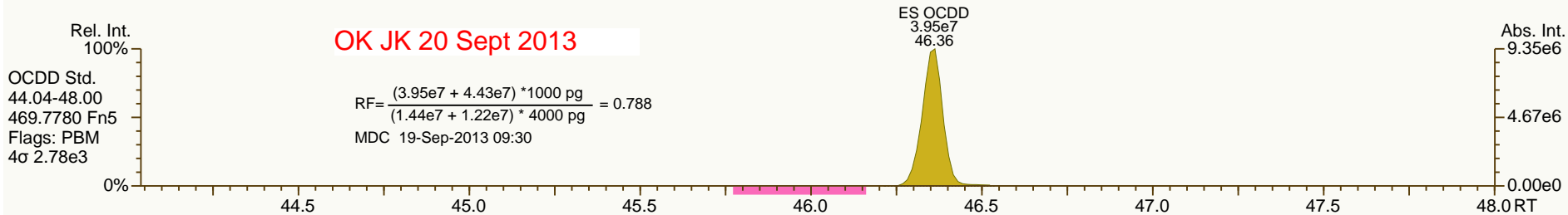
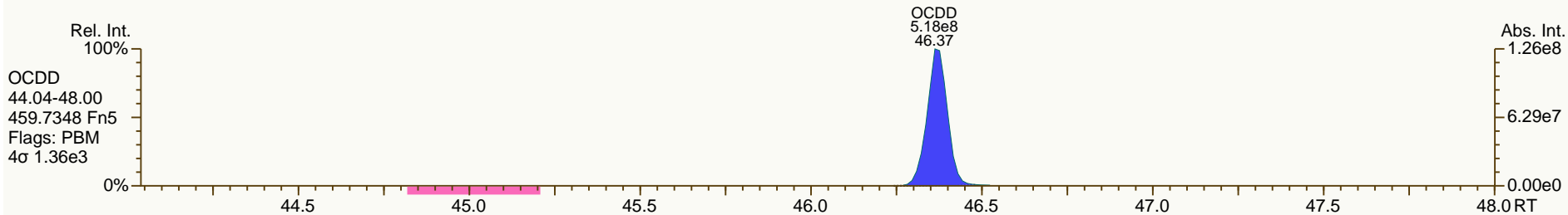
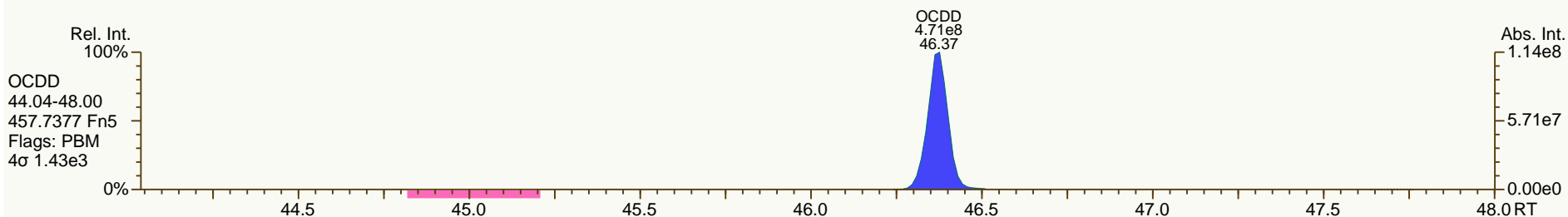
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SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

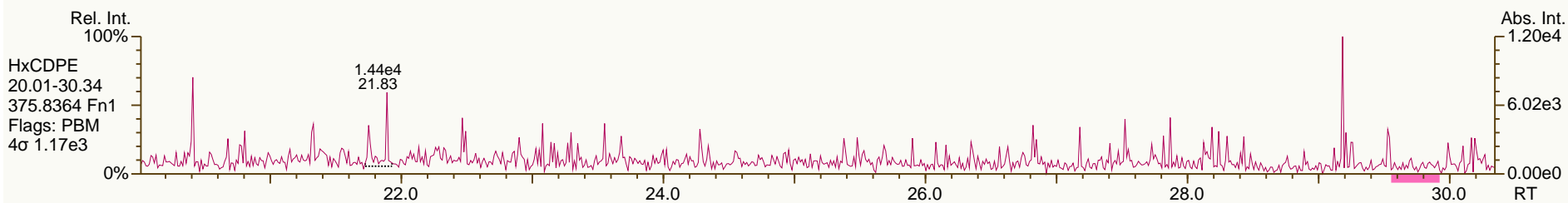
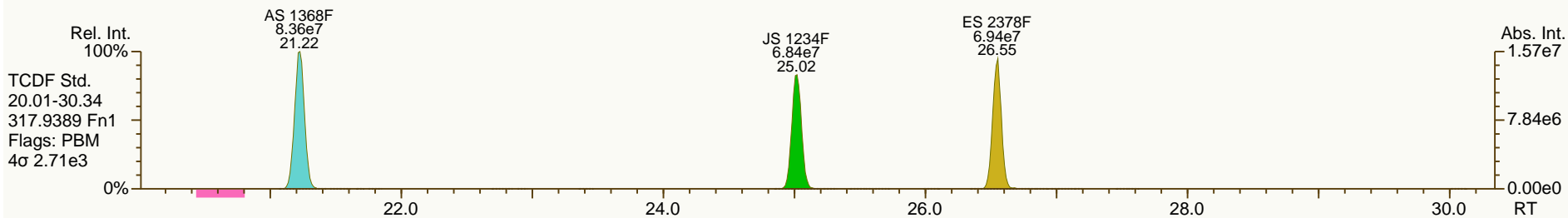
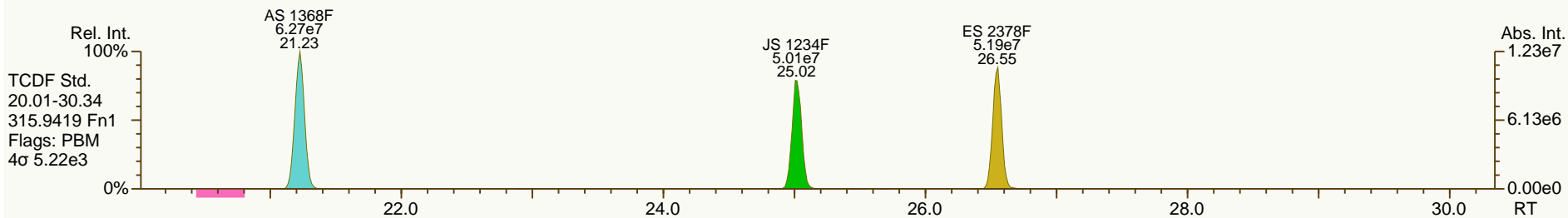
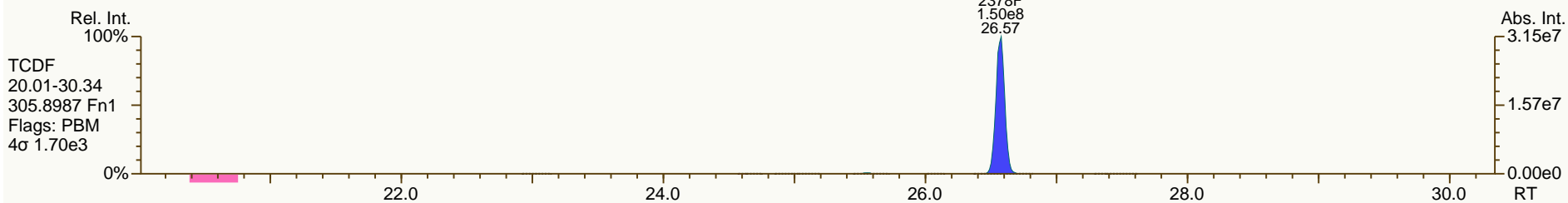
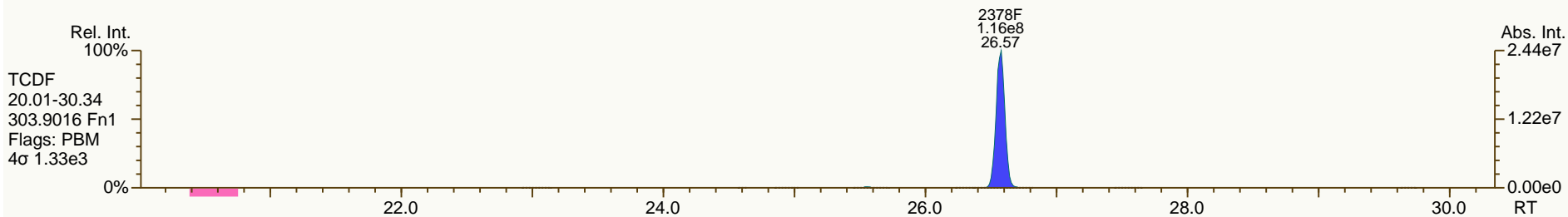
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SGS-AP ID: CS5
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

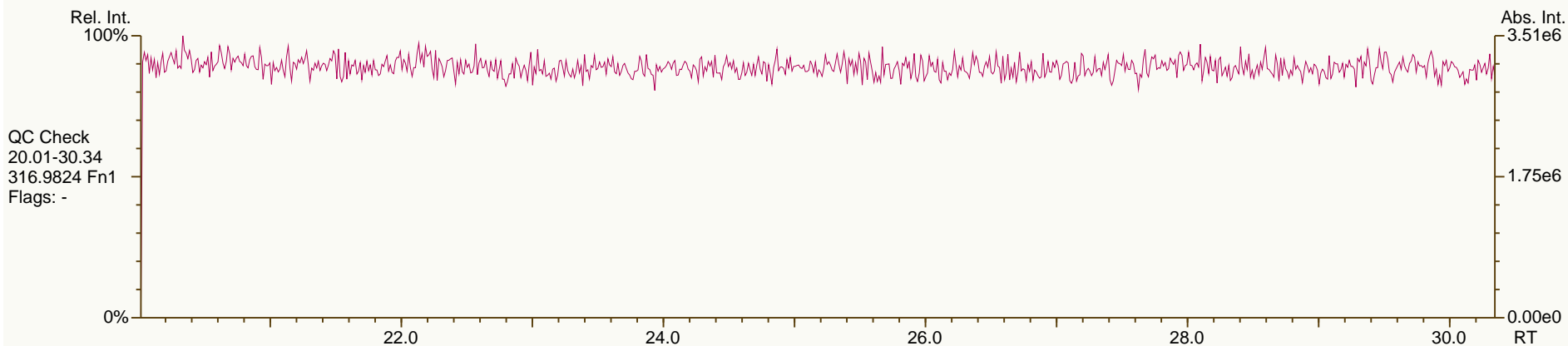
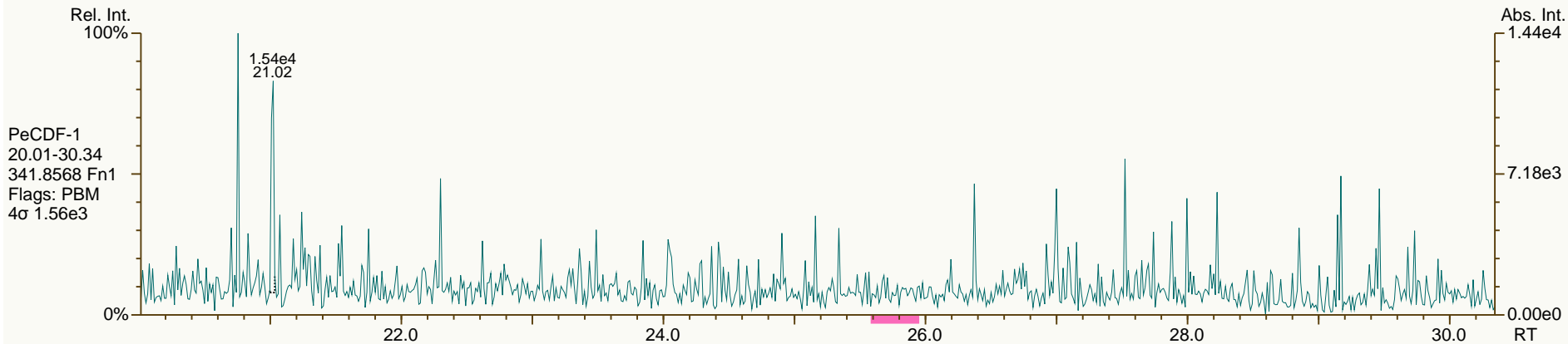
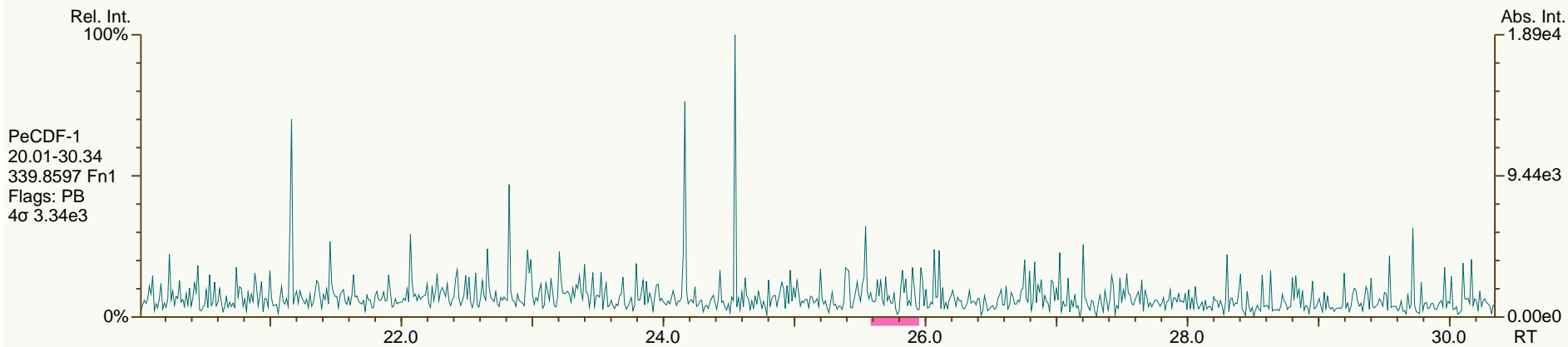
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SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

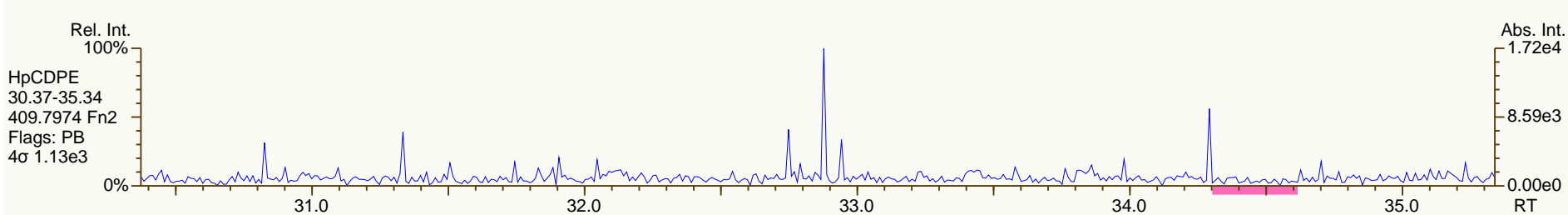
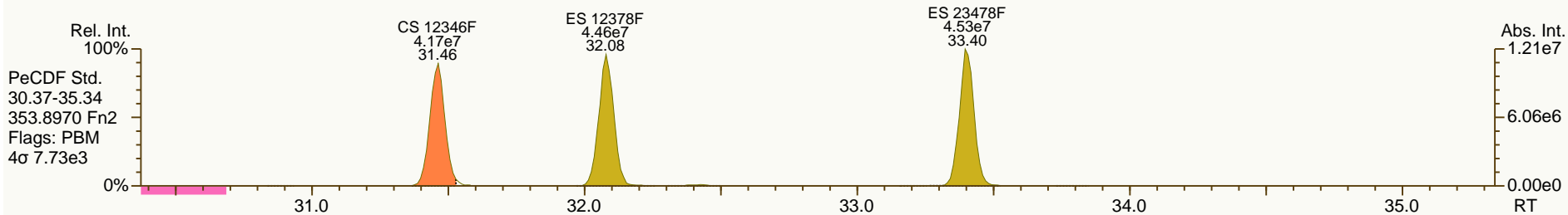
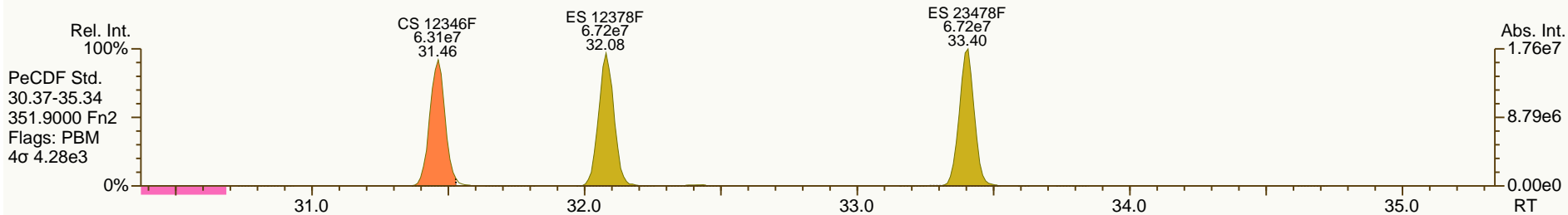
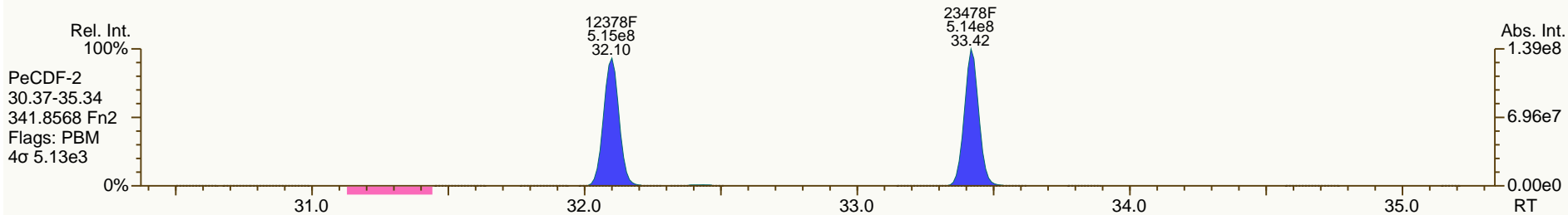
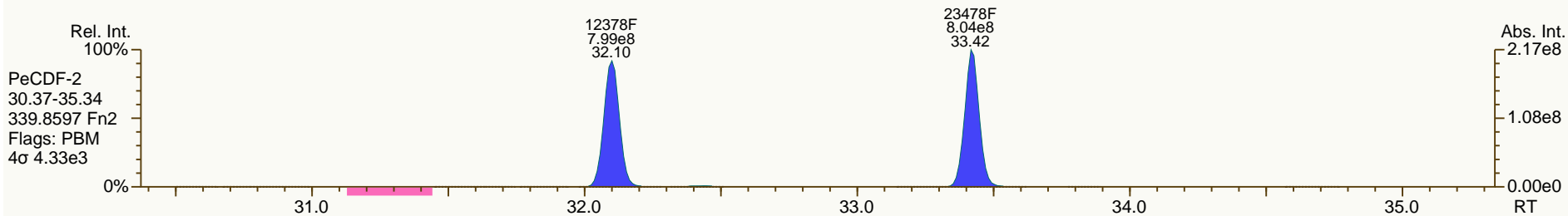
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SGS-AP ID: CS5
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

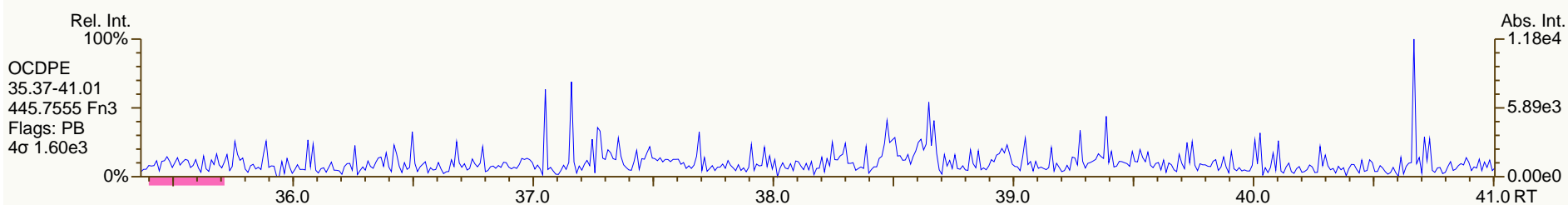
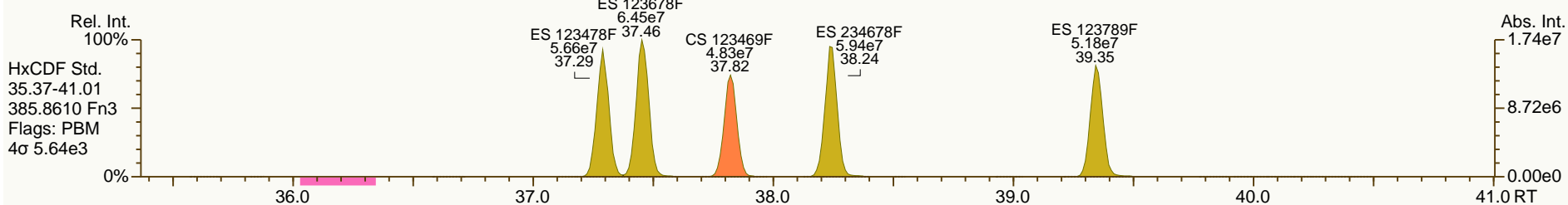
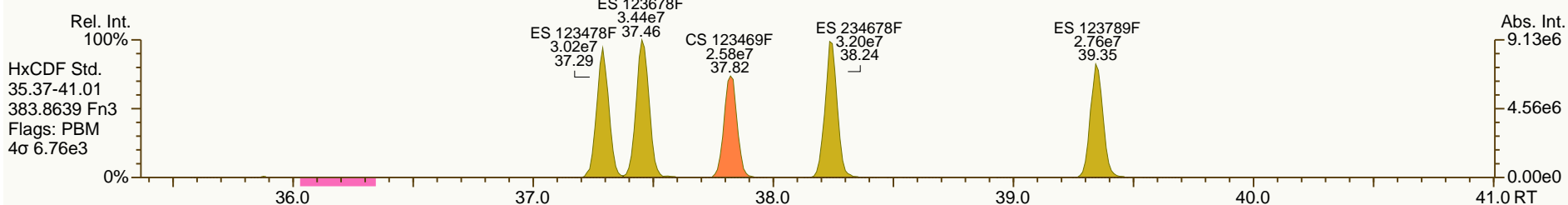
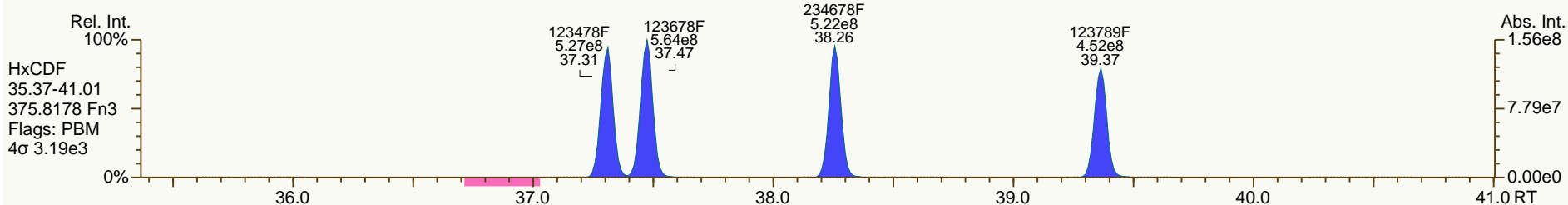
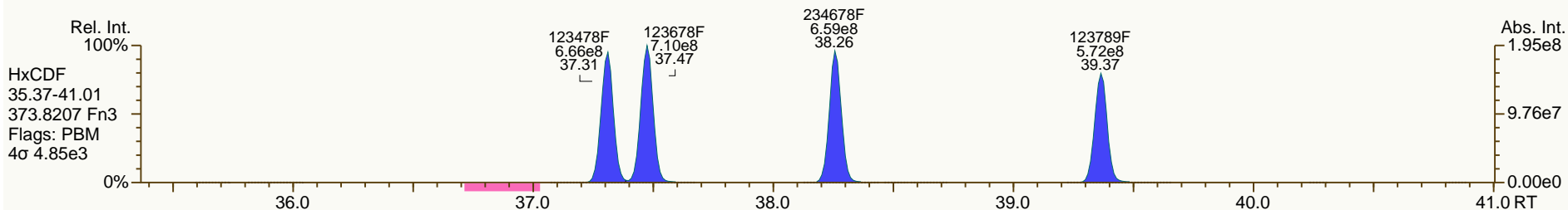
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SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

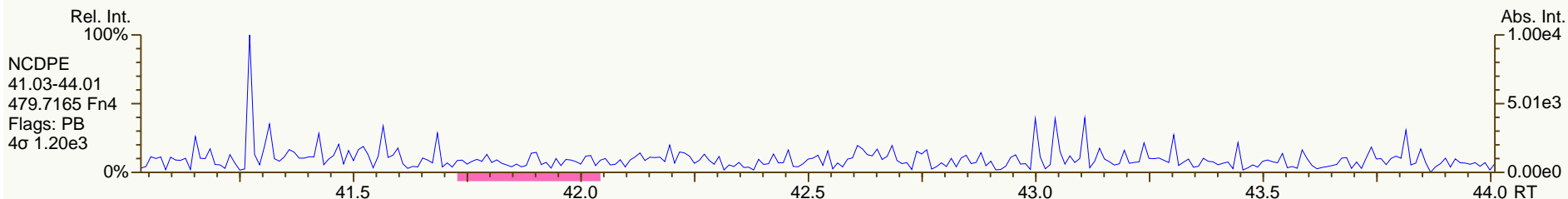
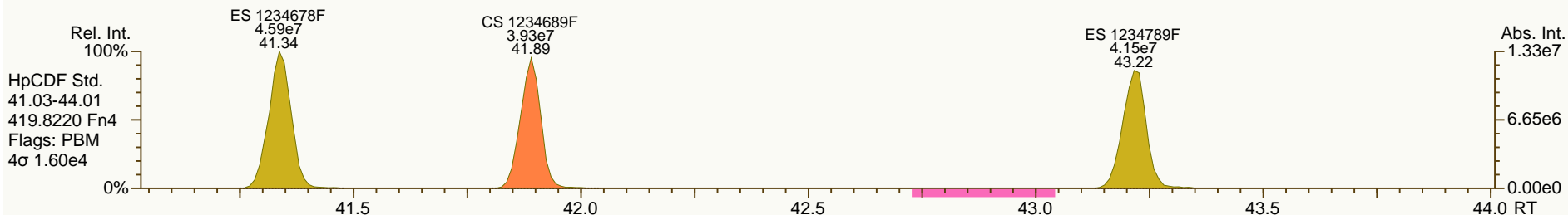
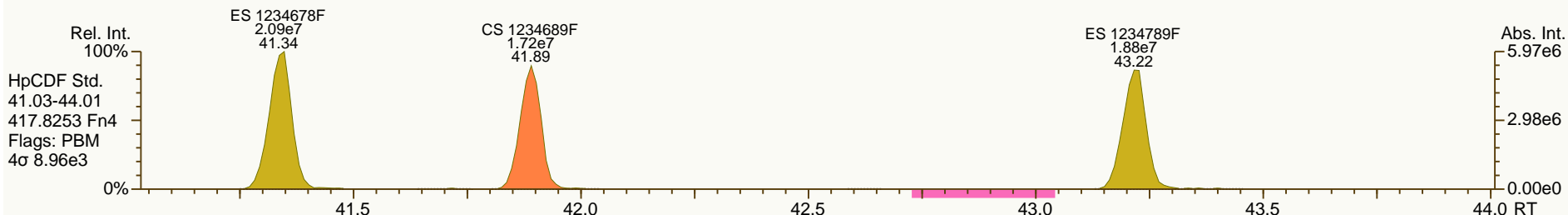
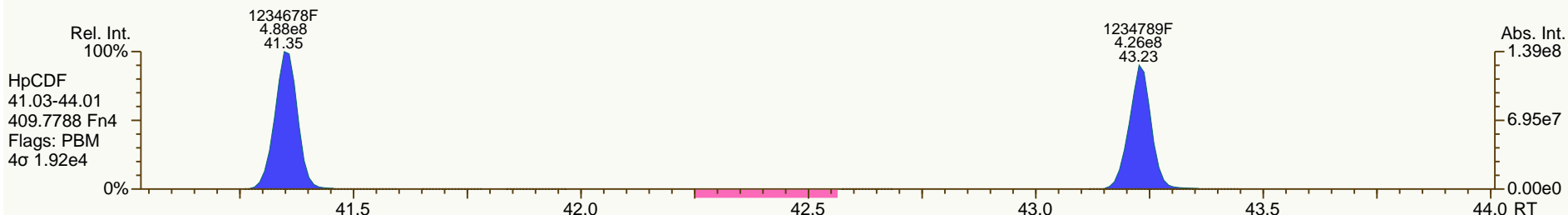
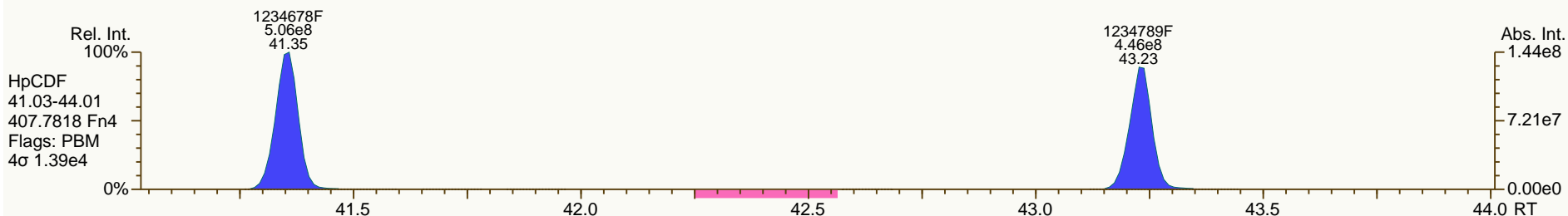
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SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

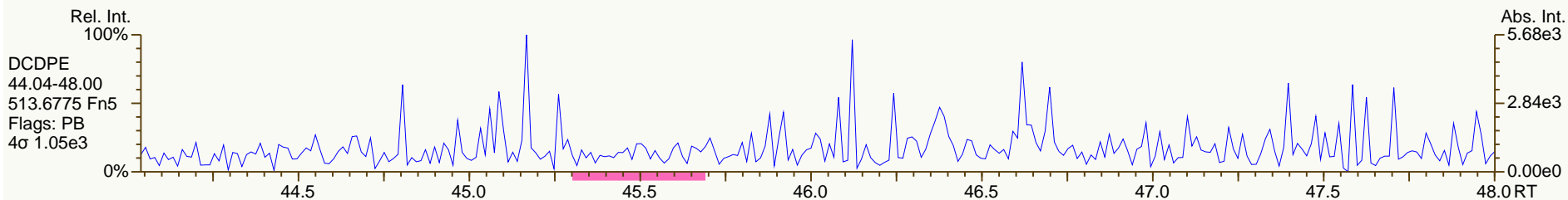
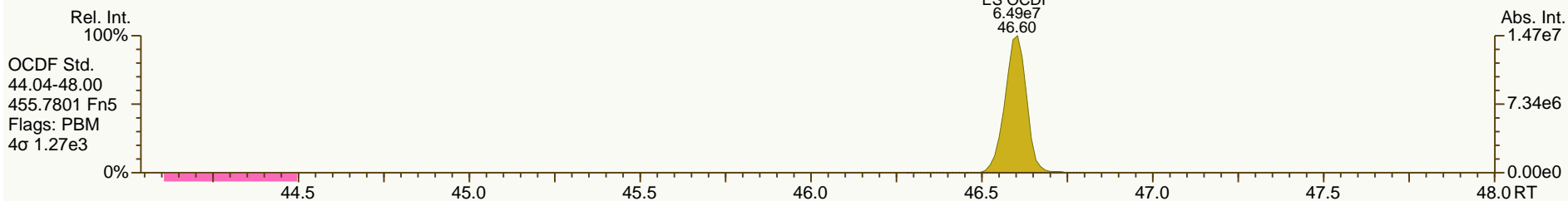
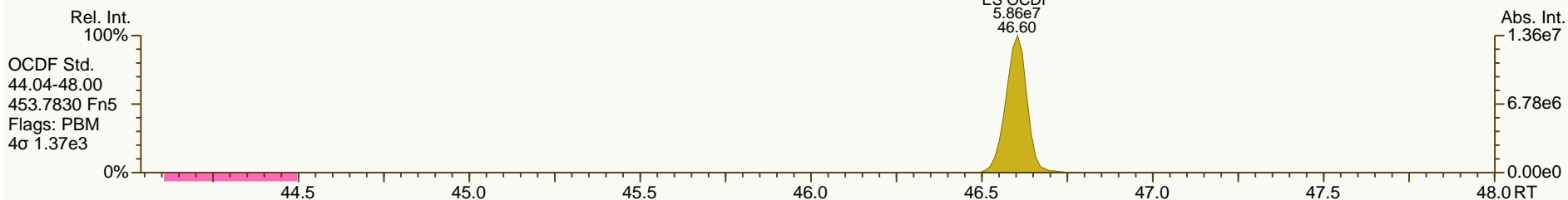
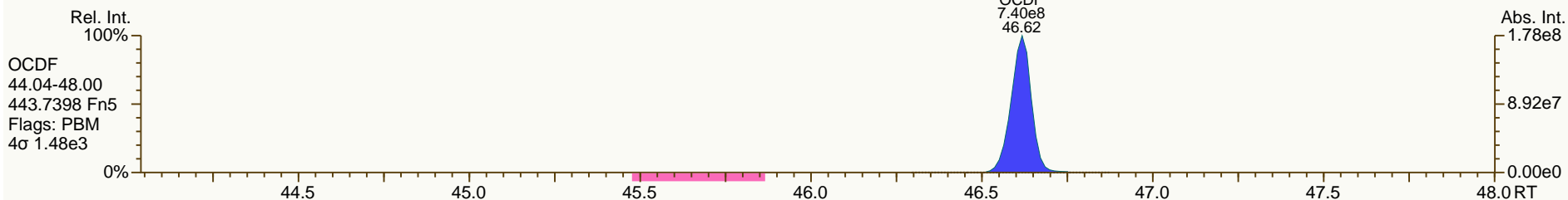
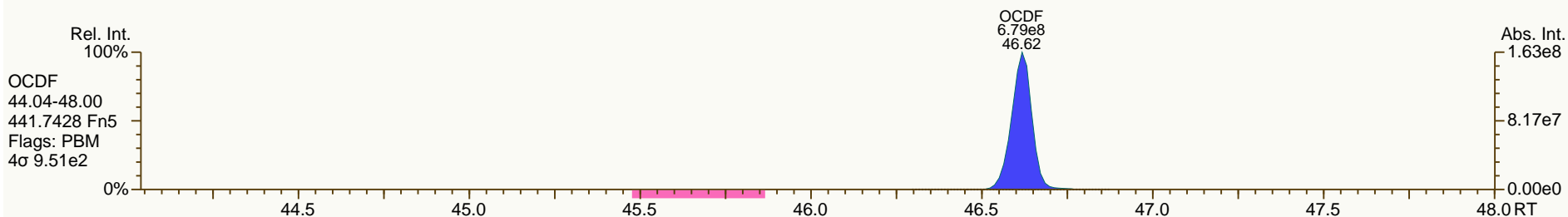
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SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

Acq: 18-SEP-2013 16:02:11
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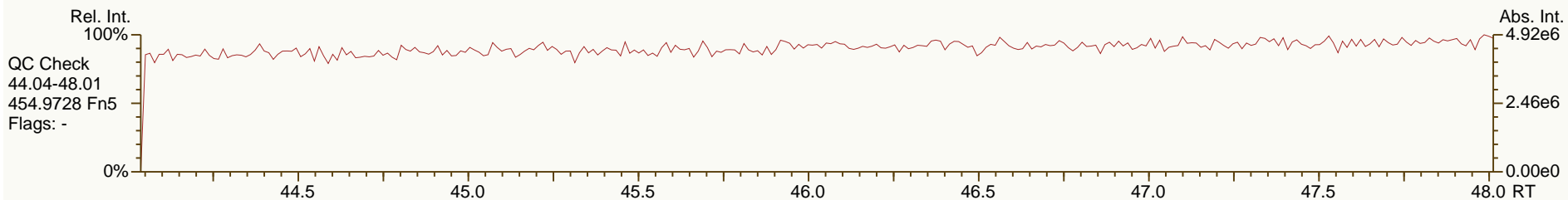
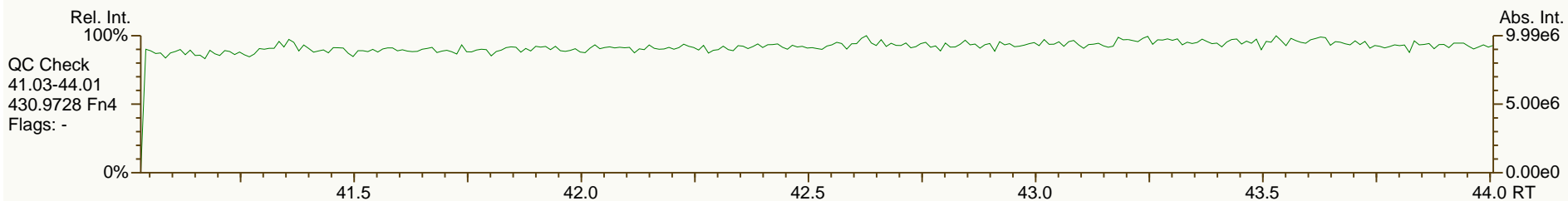
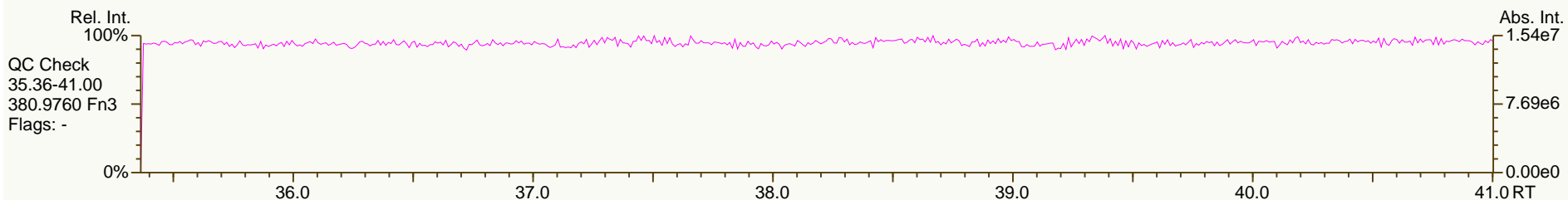
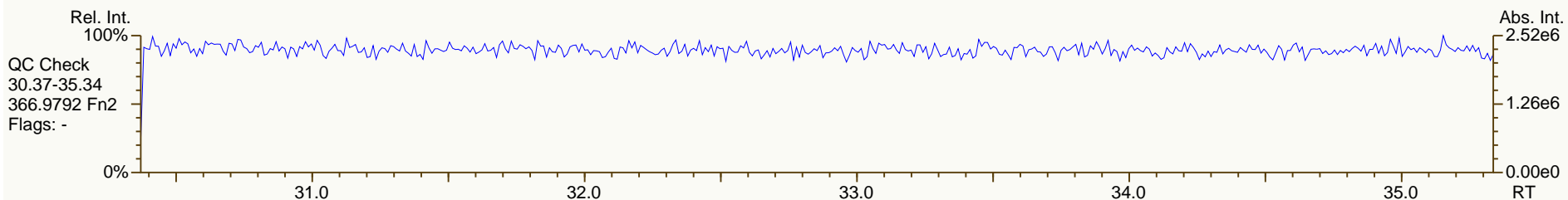
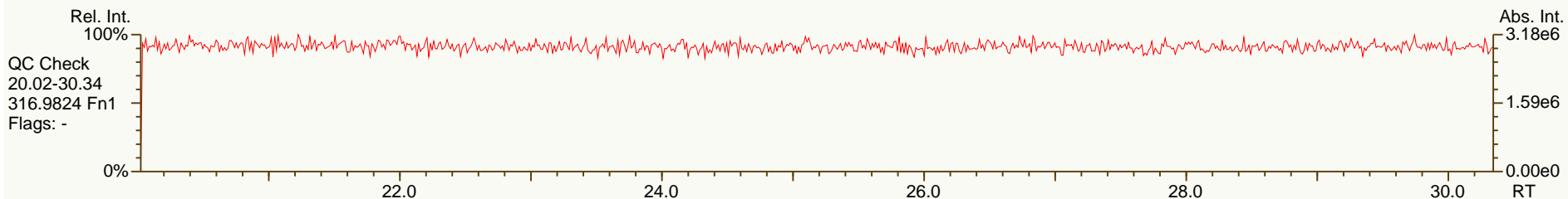
Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 16:54 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS6		UTP: 18-Sep-2013 17:51 MDC			Checkcode: 081-682-XSK		
Sample ID: 11012012A		Report: 19 Sep 2013 09:12 MC			Datafile: 130918P1-08		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.56	4.48E+08	0.80	Y	1.18	1.20	2%
12378-PeCDD	33.84	2.06E+09	1.59	Y	1.07	1.12	4%
123478-HxCDD	38.48	1.95E+09	1.28	Y	1.19	1.25	5%
123678-HxCDD	38.61	2.00E+09	1.28	Y	1.19	1.29	8%
123789-HxCDD	38.95	2.03E+09	1.27	Y	1.12	1.13	1%
1234678-HpCDD	42.63	1.78E+09	1.05	Y	1.08	1.13	5%
OCDD	46.38	2.73E+09	0.91	Y	1.14	1.20	5%
2378-TCDF	26.57	6.48E+08	0.77	Y	1.10	1.07	-2%
12378-PeCDF	32.10	3.57E+09	1.58	Y	1.17	1.26	8%
23478-PeCDF	33.42	3.50E+09	1.57	Y	1.14	1.23	7%
123478-HxCDF	37.31	3.23E+09	1.27	Y	1.34	1.40	5%
123678-HxCDF	37.48	3.39E+09	1.27	Y	1.23	1.29	5%
234678-HxCDF	38.26	3.20E+09	1.26	Y	1.26	1.33	6%
123789-HxCDF	39.37	2.76E+09	1.27	Y	1.23	1.29	5%
1234678-HpCDF	41.35	2.87E+09	1.04	Y	1.42	1.52	7%
1234789-HpCDF	43.23	2.43E+09	1.04	Y	1.39	1.48	7%
OCDF	46.62	3.88E+09	0.91	Y	1.11	1.16	5%
ES 2378-TCDD	27.53	7.45E+07	0.81	Y	1.02	1.06	4%
ES 12378-PeCDD	33.81	7.38E+07	1.59	Y	0.92	1.05	15%
ES 123478-HxCDD	38.47	6.25E+07	1.18	Y	1.02	1.14	11%
ES 123678-HxCDD	38.60	6.19E+07	1.17	Y	1.01	1.13	12%
ES 123789-HxCDD	38.93	7.22E+07	1.21	Y	1.14	1.31	15%
ES 1234678-HpCDD	42.61	6.26E+07	1.07	Y	1.02	1.14	11%
ES OCDD	46.37	9.11E+07	0.89	Y	0.72	0.83	15%
ES 2378-TCDF	26.55	1.21E+08	0.78	Y	1.01	1.05	4%
ES 12378-PeCDF	32.08	1.14E+08	1.48	Y	0.89	0.99	12%
ES 23478-PeCDF	33.41	1.14E+08	1.45	Y	0.91	0.99	10%
ES 123478-HxCDF	37.29	9.19E+07	0.53	Y	1.53	1.67	9%
ES 123678-HxCDF	37.46	1.05E+08	0.53	Y	1.73	1.92	11%
ES 234678-HxCDF	38.24	9.60E+07	0.54	Y	1.61	1.75	8%
ES 123789-HxCDF	39.35	8.54E+07	0.54	Y	1.39	1.55	12%
ES 1234678-HpCDF	41.34	7.56E+07	0.44	Y	1.20	1.38	15%
ES 1234789-HpCDF	43.22	6.55E+07	0.44	Y	1.07	1.19	11%
ES OCDF	46.61	1.34E+08	0.92	Y	1.04	1.22	16%

Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 16:54 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS6		UTP: 18-Sep-2013 17:51 MDC			Checkcode: 081-682		
Sample ID: 11012012A		Report: 19 Sep 2013 09:12 MC			Datafile: 130918P1-08		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
JS 1234-TCDD	26.79	7.01E+07	0.83	Y	-	-	-
JS 1234-TCDF	25.02	1.15E+08	0.75	Y	-	-	-
JS 123467-HxCDD	38.82	2.75E+07	1.22	Y	-	-	-
CS 37C1-2378-TCDD	NotFnd		n/a	-			
CS 12347-PeCDD	33.22	5.98E+07	1.61	Y	0.88	0.85	-2%
CS 12346-PeCDF	31.46	9.89E+07	1.50	Y	0.90	0.86	-4%
CS 123469-HxCDF	37.82	7.43E+07	0.53	Y	1.40	1.35	-3%
CS 1234689-HpCDF	41.89	5.94E+07	0.45	Y	1.09	1.08	-1%
SS 37C1-2378-TCDD	NotFnd		n/a	-			
SS 12347-PeCDD	33.22	5.98E+07	1.61	Y	0.96	0.81	-15%
SS 12346-PeCDF	31.46	9.89E+07	1.50	Y	1.02	0.87	-15%
SS 123469-HxCDF	37.82	7.43E+07	0.53	Y	0.81	0.71	-13%
SS 1234689-HpCDF	41.89	5.94E+07	0.45	Y	0.91	0.79	-14%
AS 1368-TCDD	23.43	6.84E+07	0.81	Y	1.01	0.98	-3%
AS 1368-TCDF	21.22	1.40E+08	0.75	Y	1.22	1.22	0%
FS 1278-TCDD	27.91	8.49E+07	0.81	Y	1.18	1.14	-3%
FS 12478-PeCDD	32.37	7.09E+07	1.62	Y	1.06	0.96	-9%
FS 123468-HxCDD	37.22	6.78E+07	1.19	Y	1.26	1.08	-14%
FS 1234679-HpCDD	41.71	6.17E+07	1.07	Y	1.12	0.99	-12%
TS 1378-TCDD	25.66	7.91E+07	0.81	Y	1.11	1.06	-4%
OCDD-a	46.38	1.58E+08	2.55	Y	0.07	0.07	2%
OCDF-a	46.62	2.26E+08	2.58	Y	0.06	0.07	7%

SGS-AP ID: CS6
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

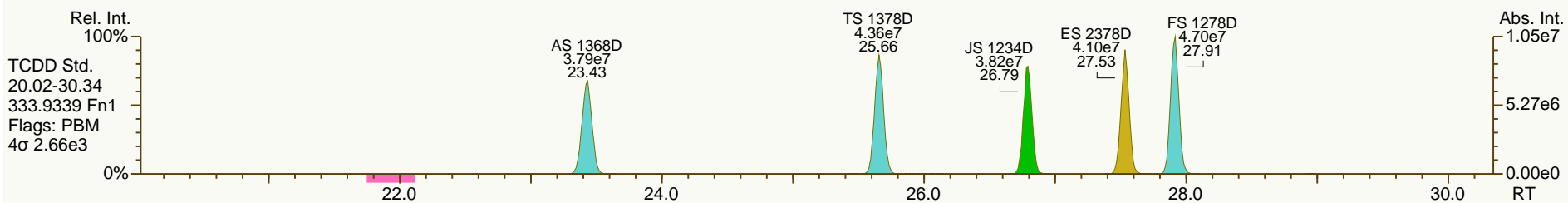
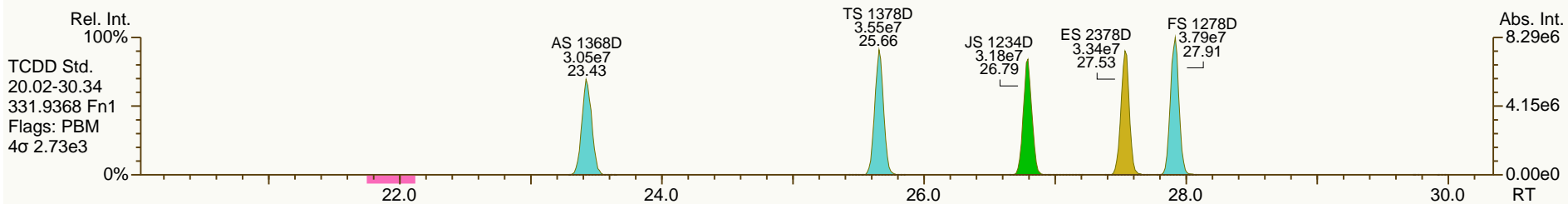
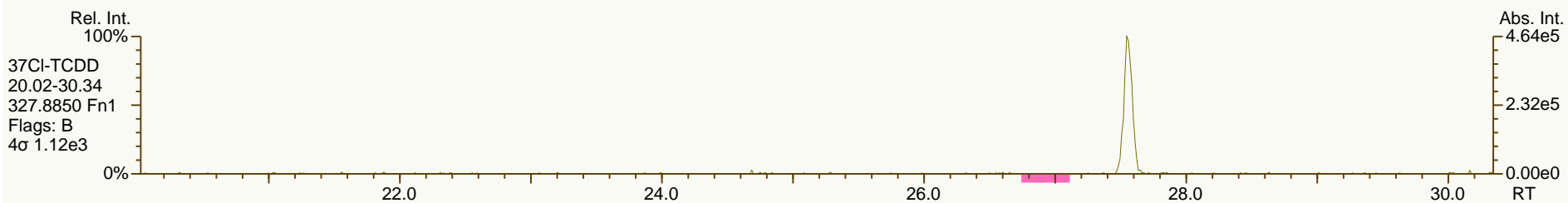
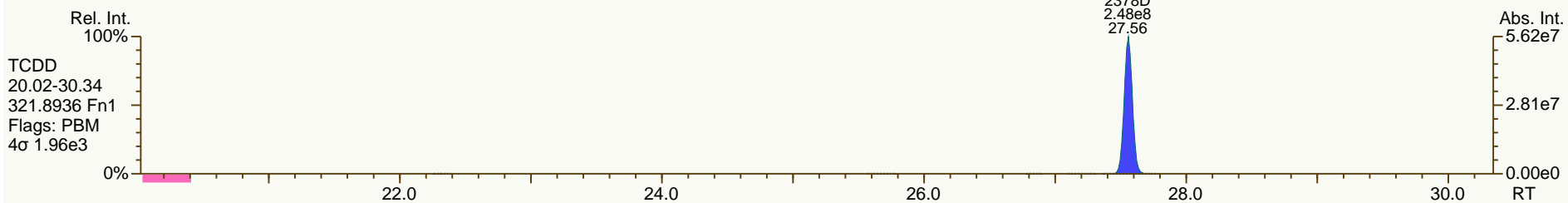
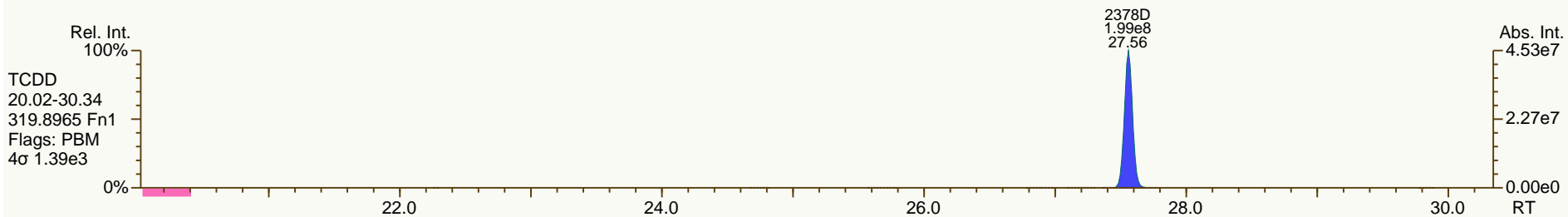
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SGS-AP ID: CS6
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
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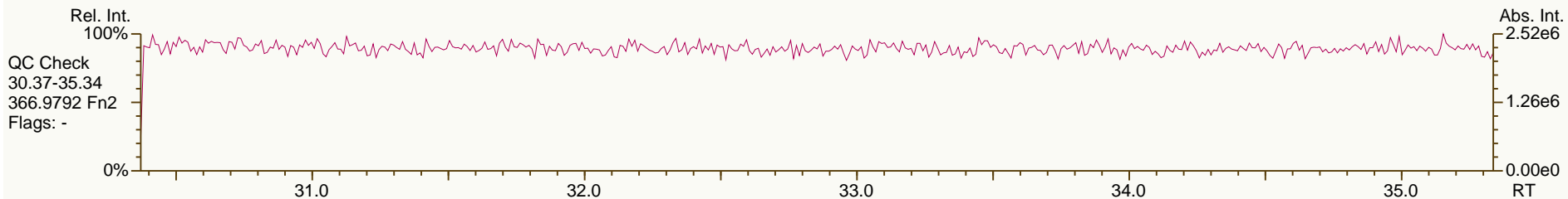
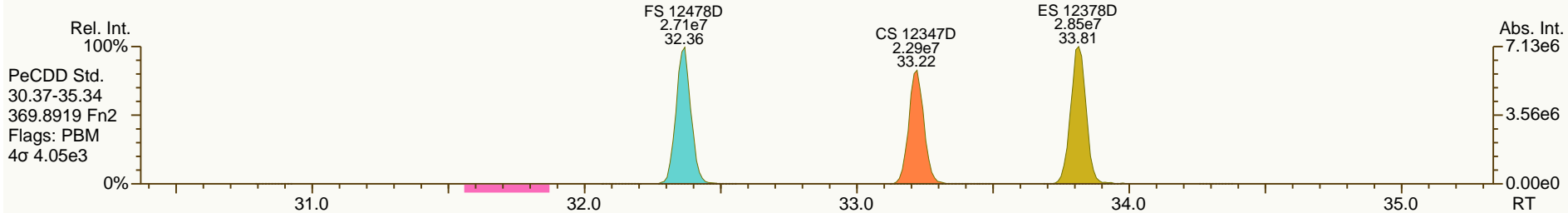
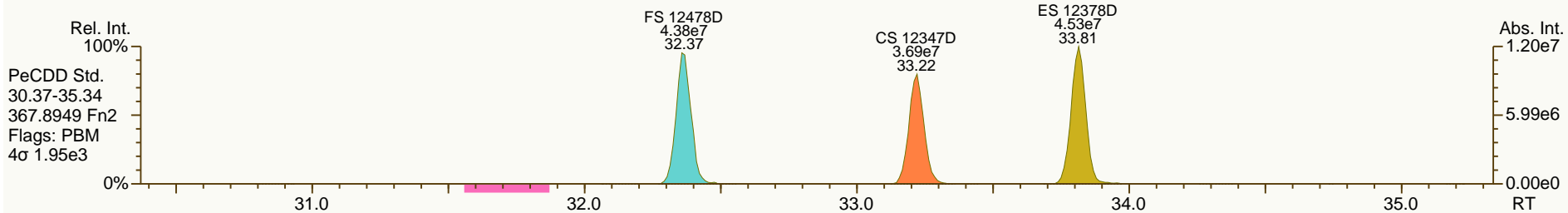
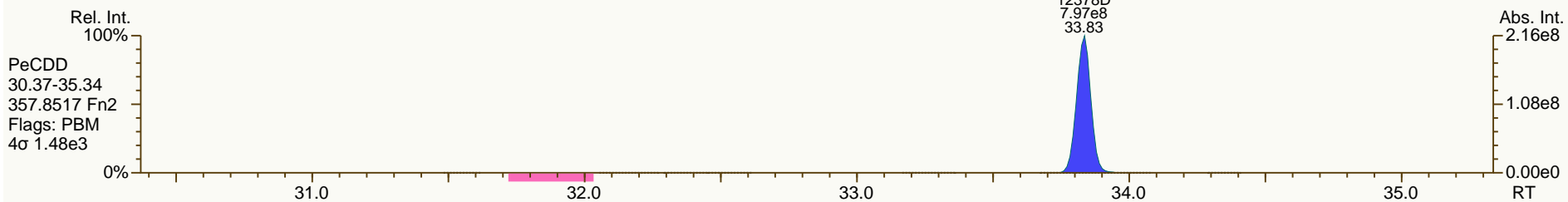
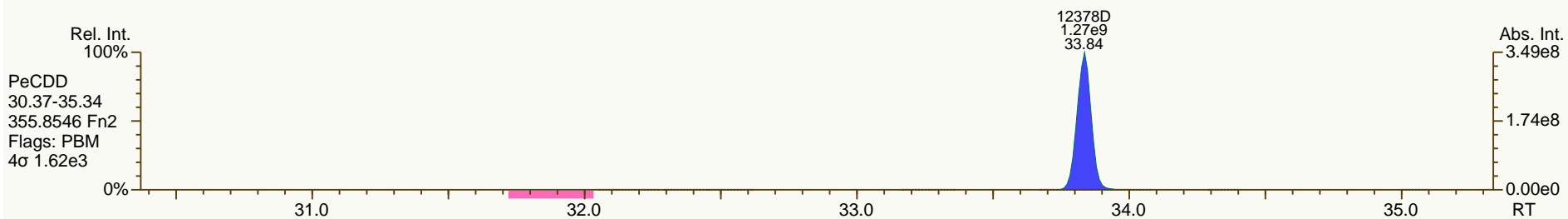
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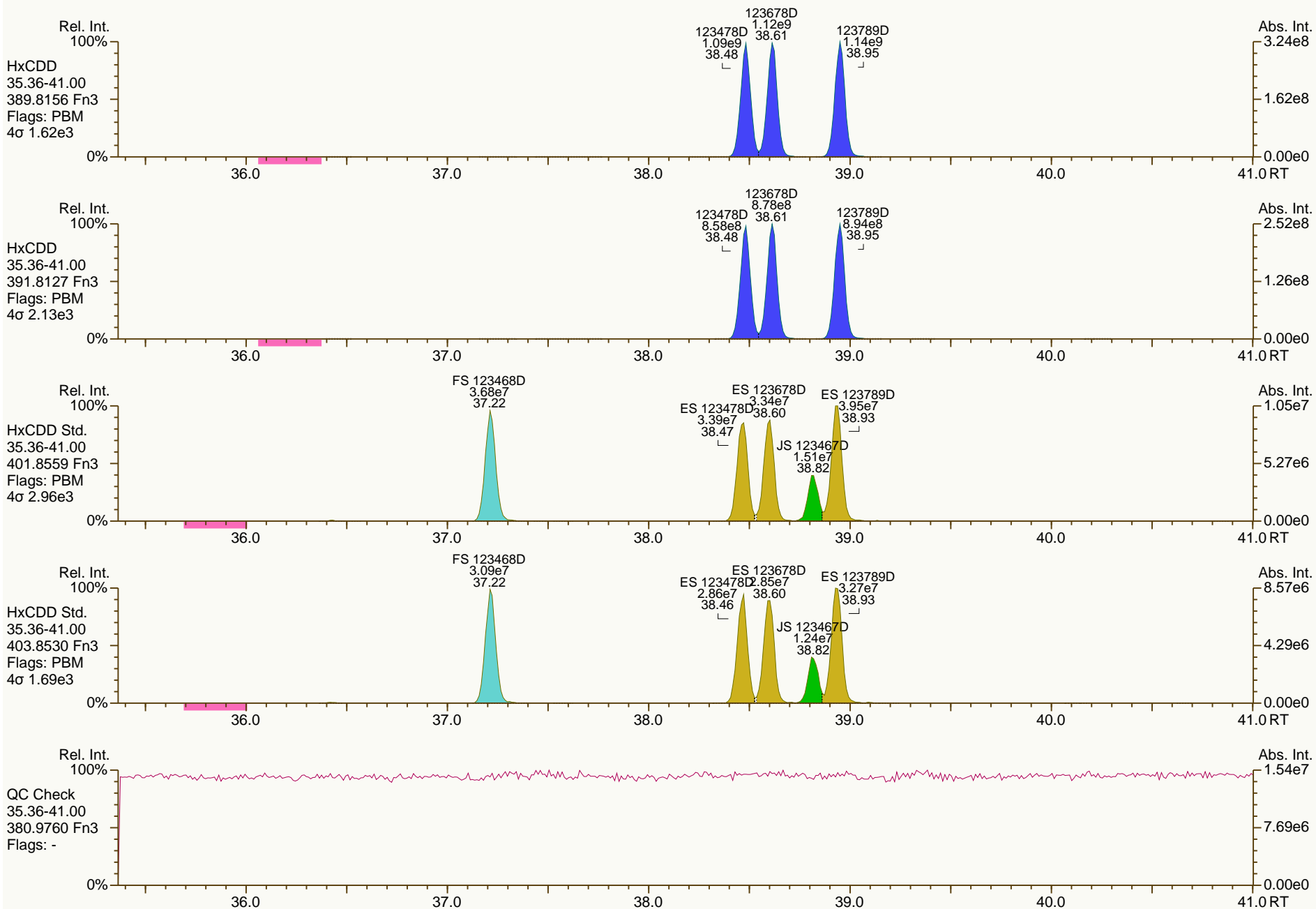
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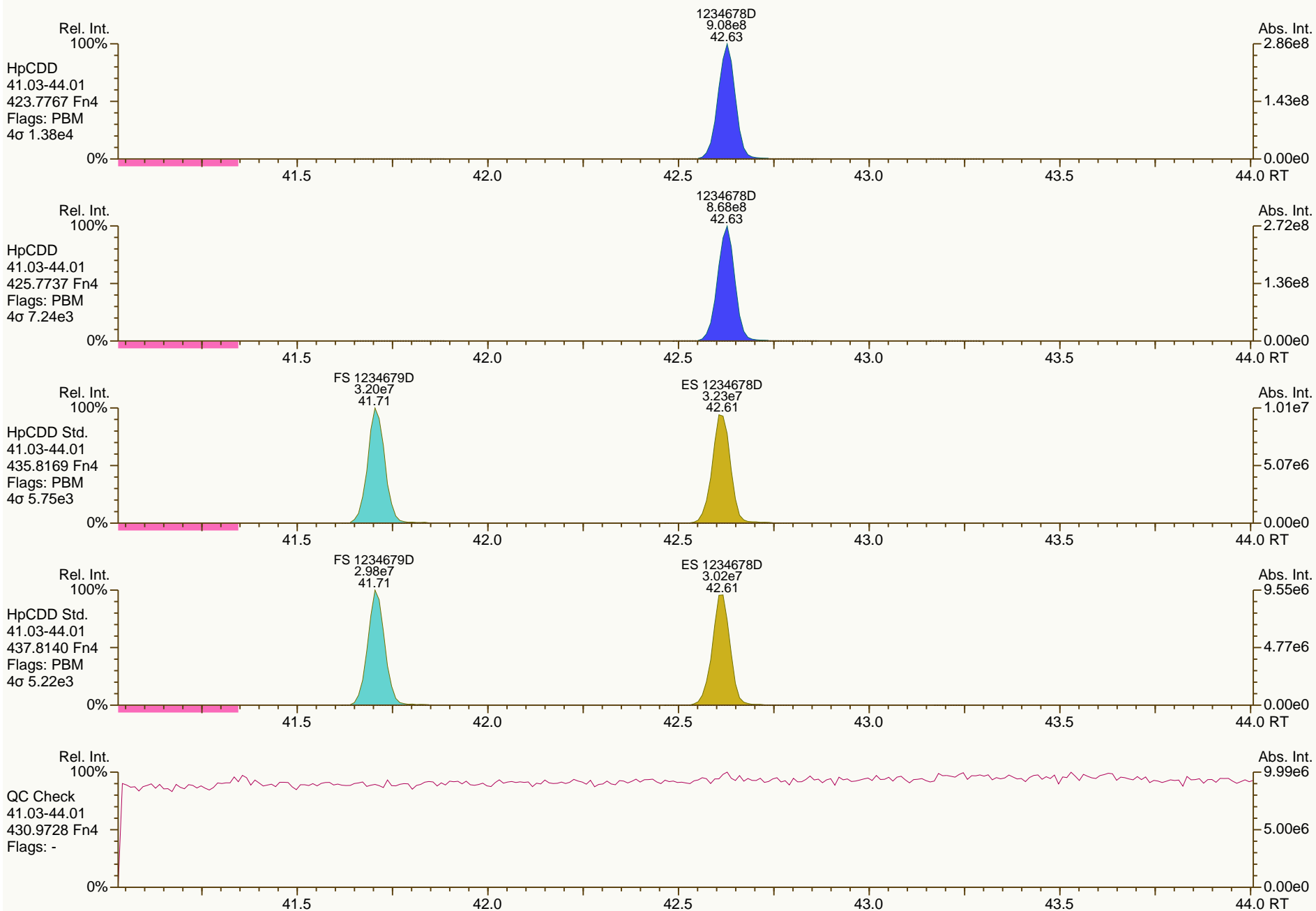
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Sample ID: 11012012A
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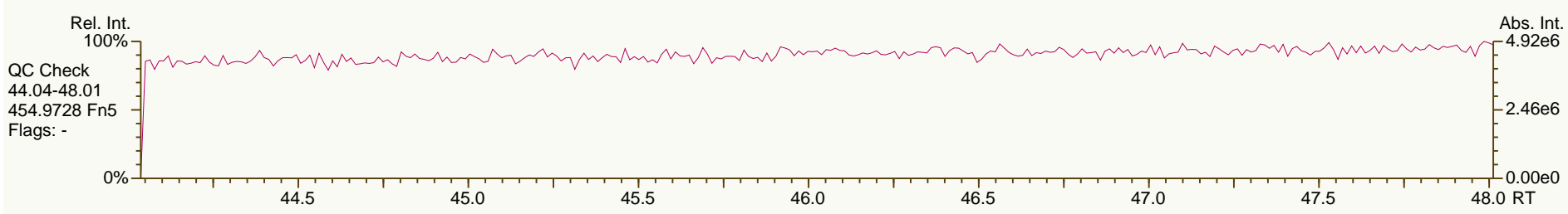
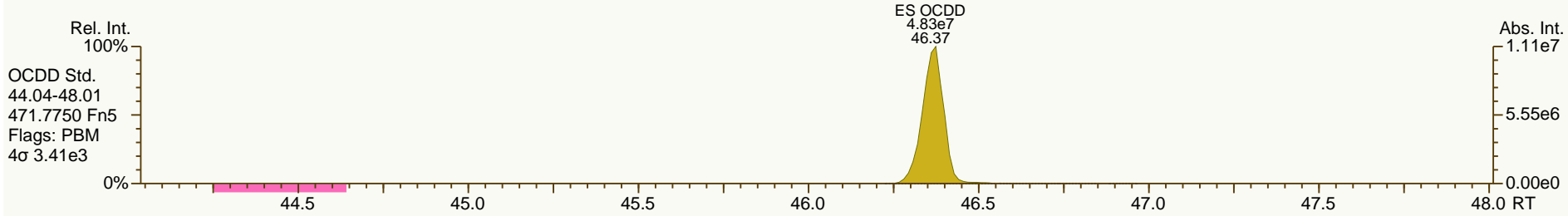
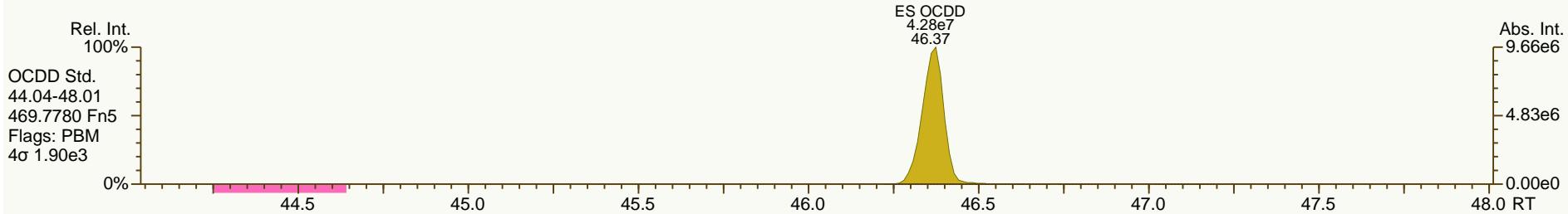
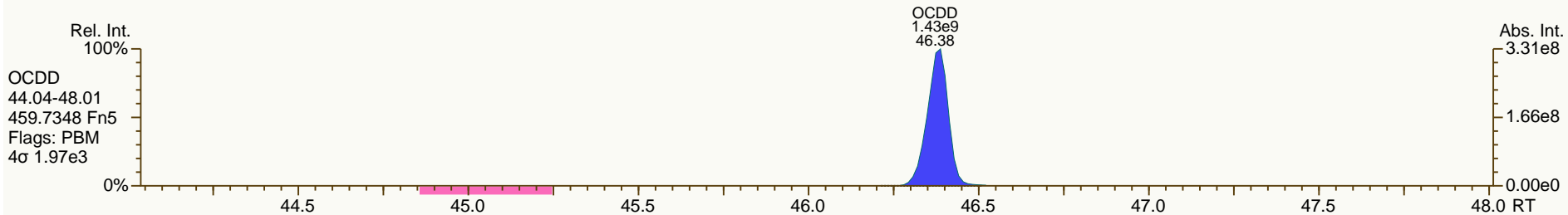
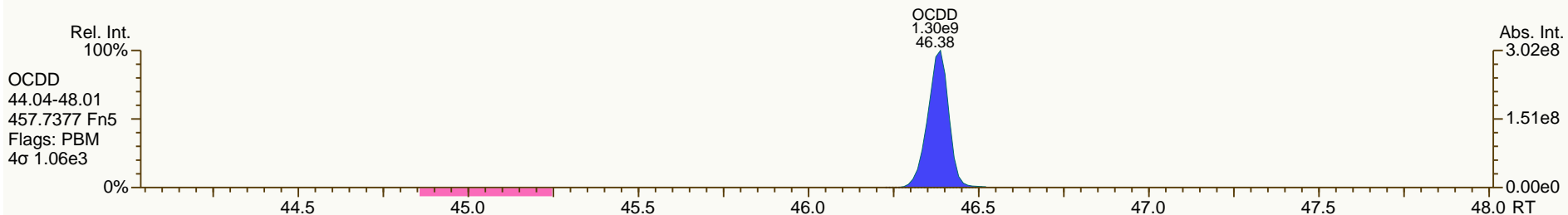
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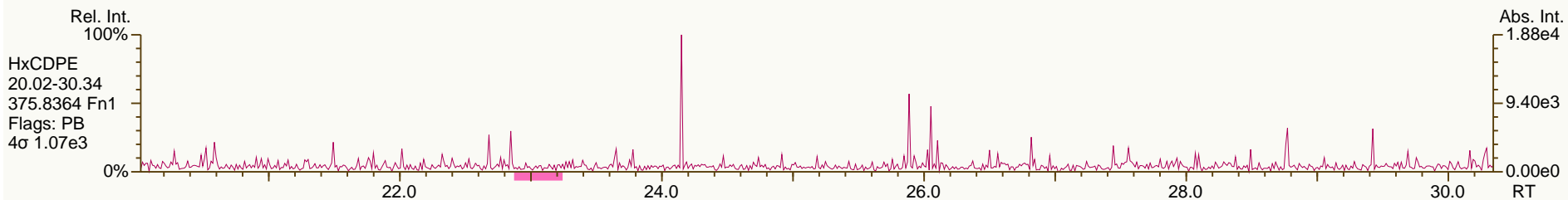
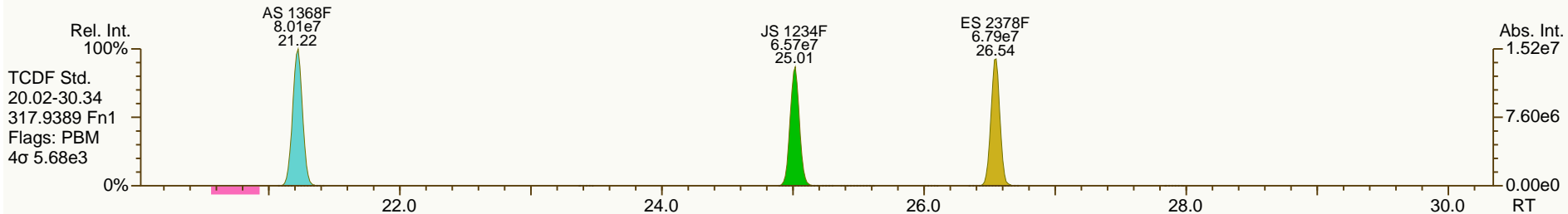
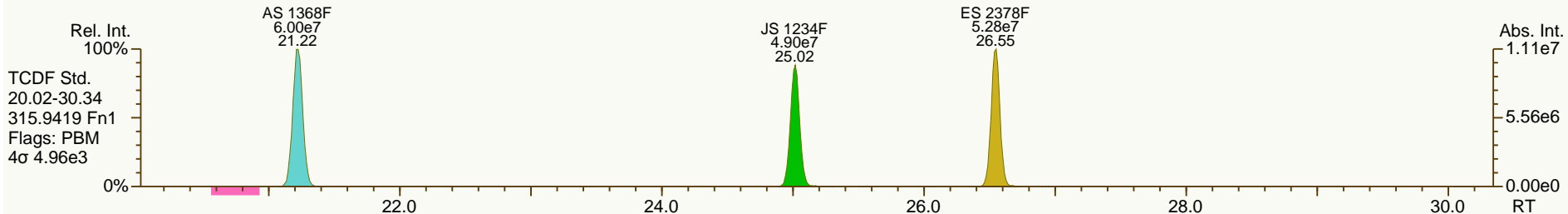
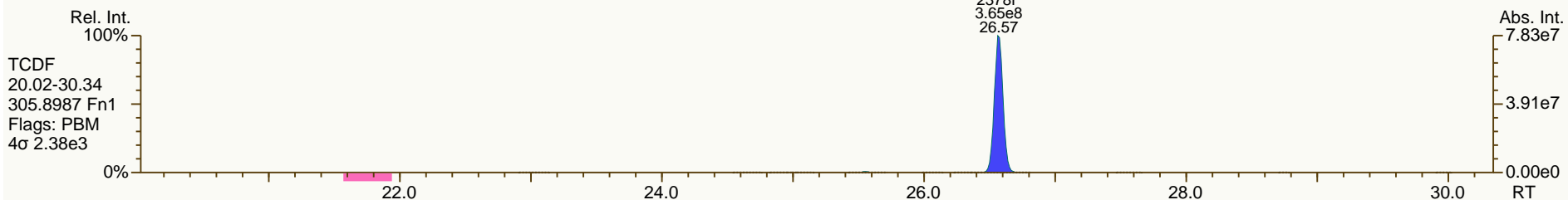
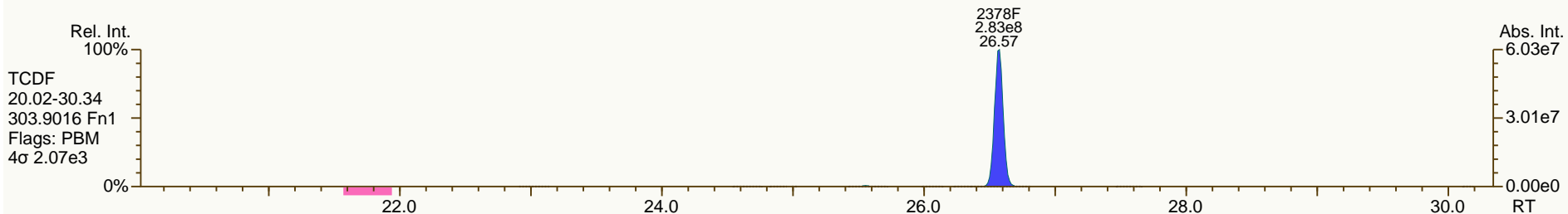
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SGS-AP ID: CS6
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

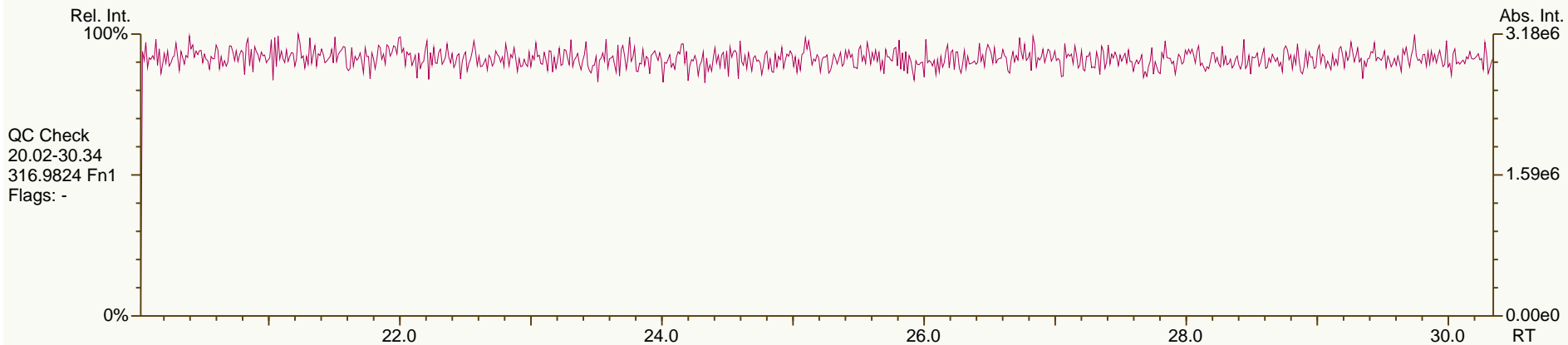
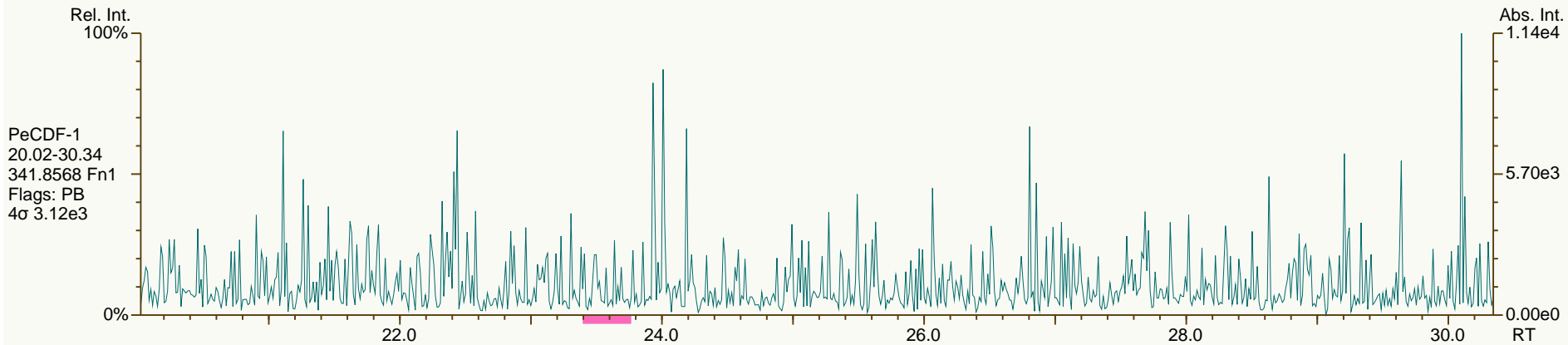
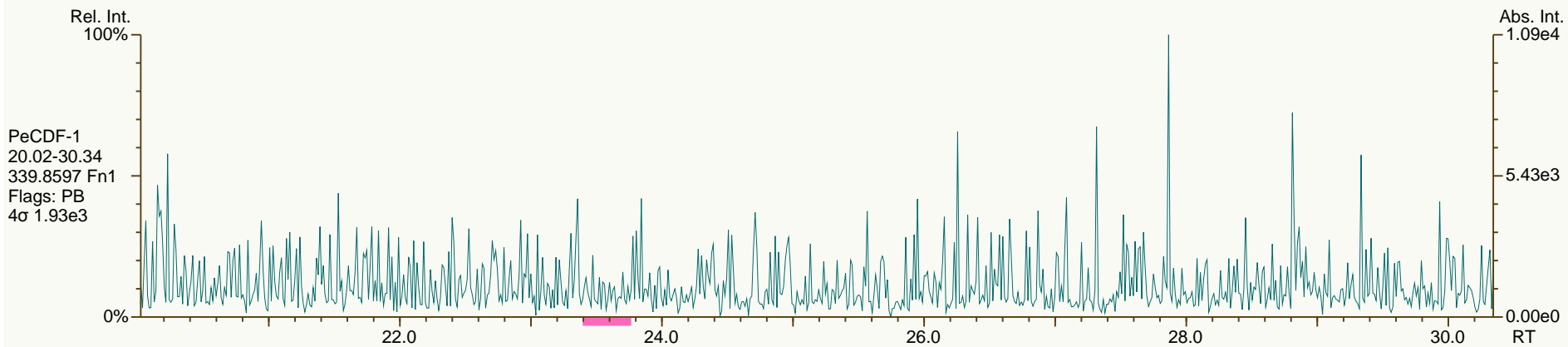
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Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

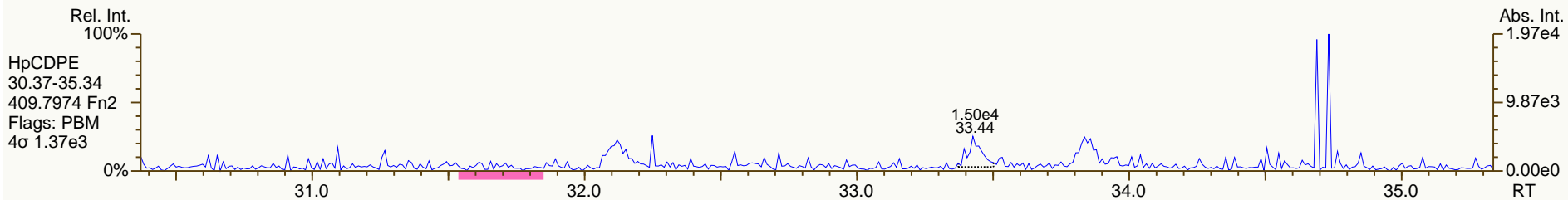
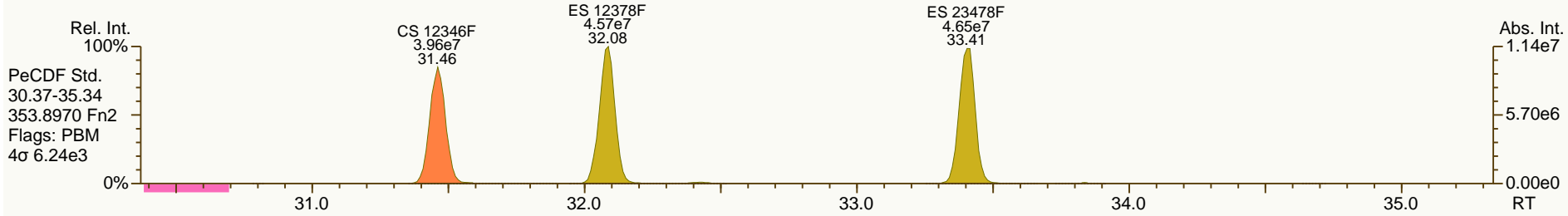
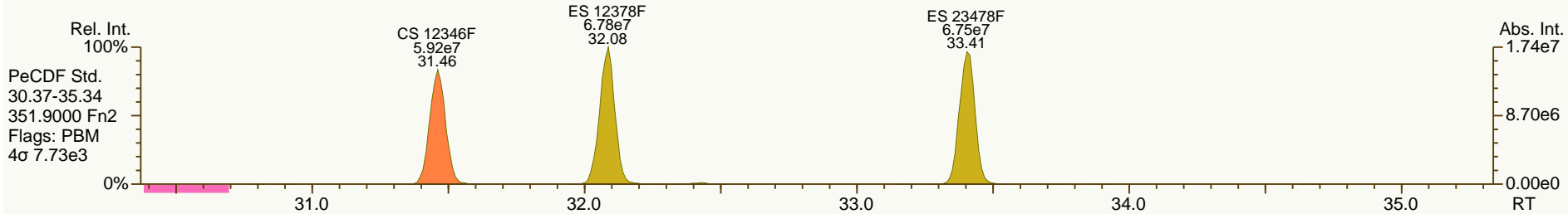
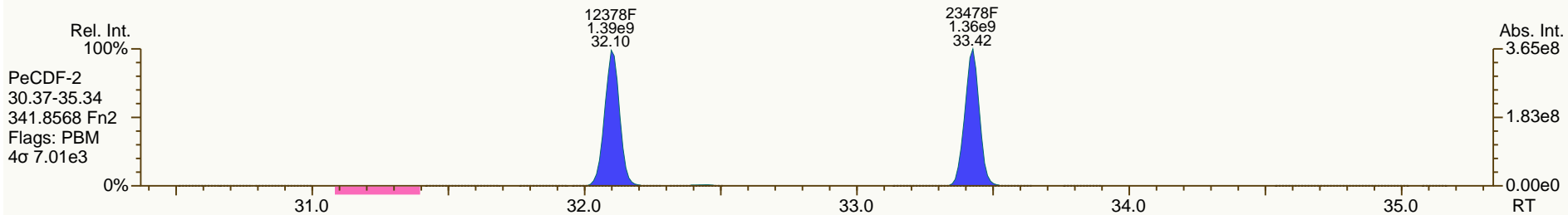
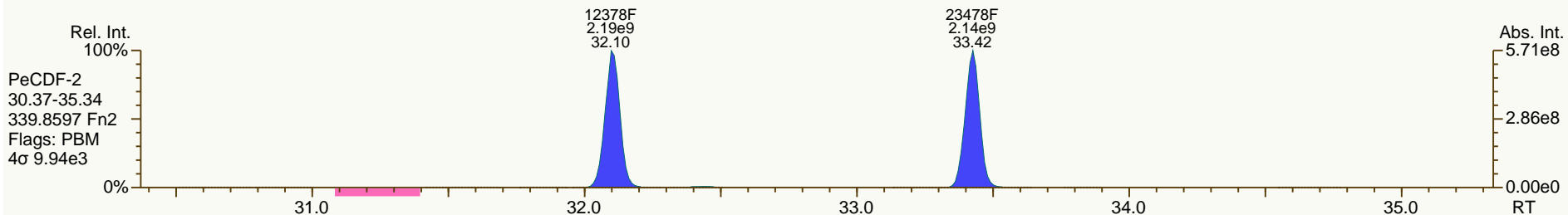
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Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

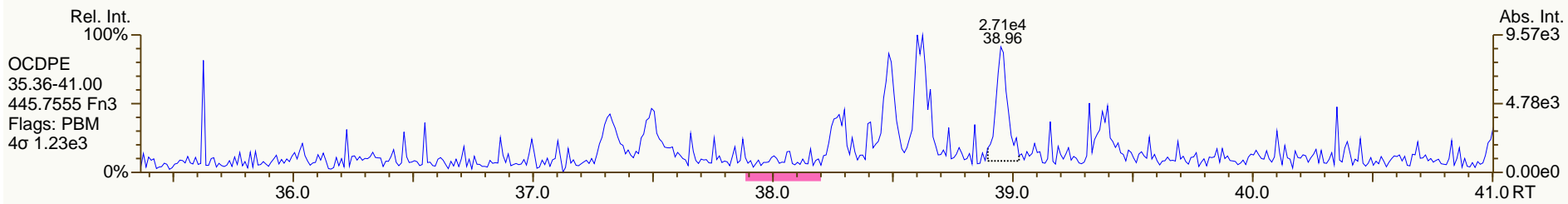
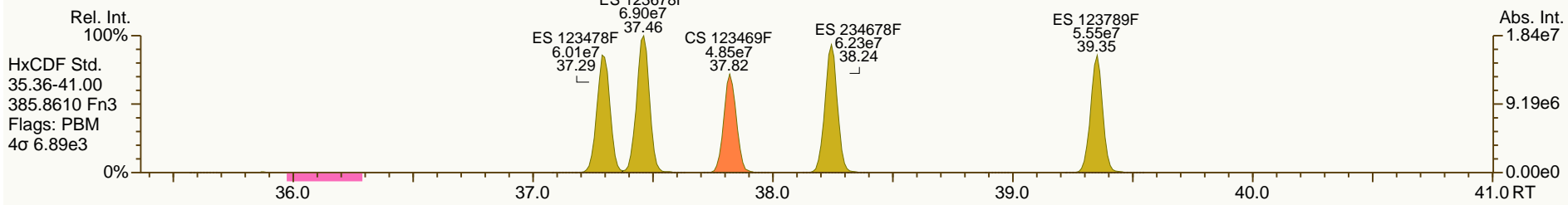
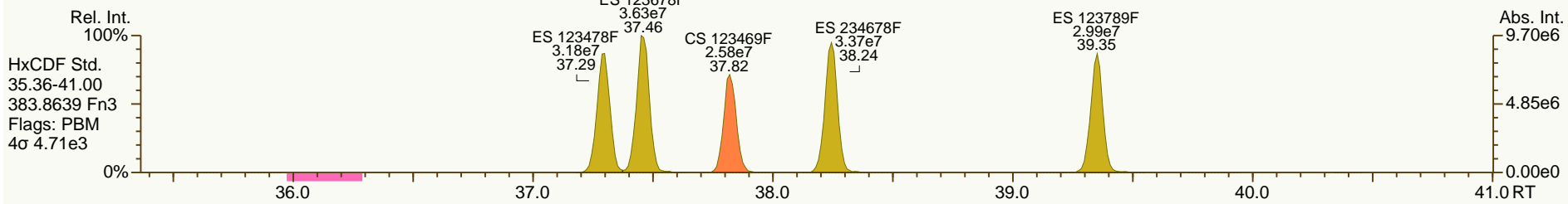
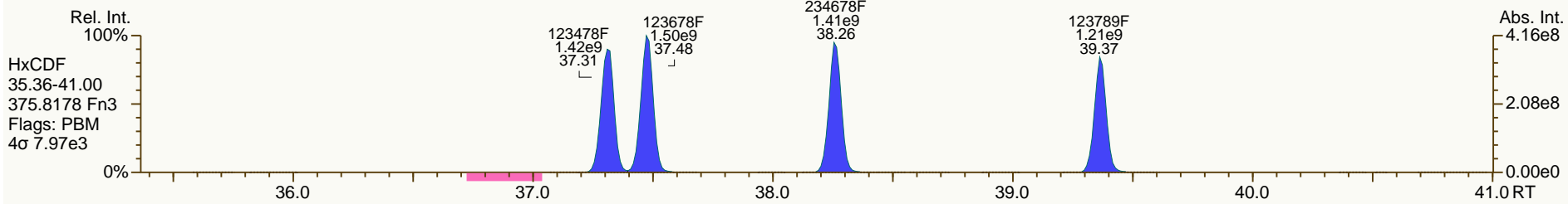
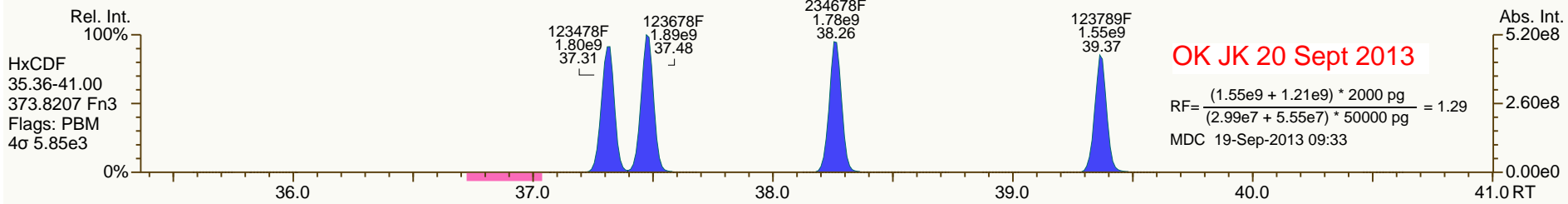
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Sample ID: 11012012A
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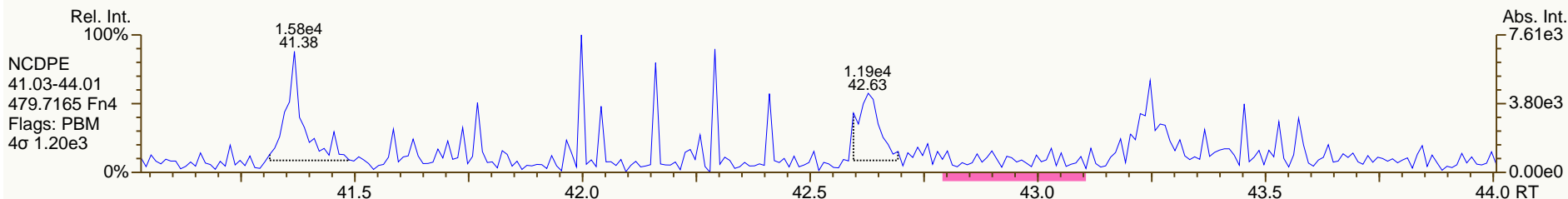
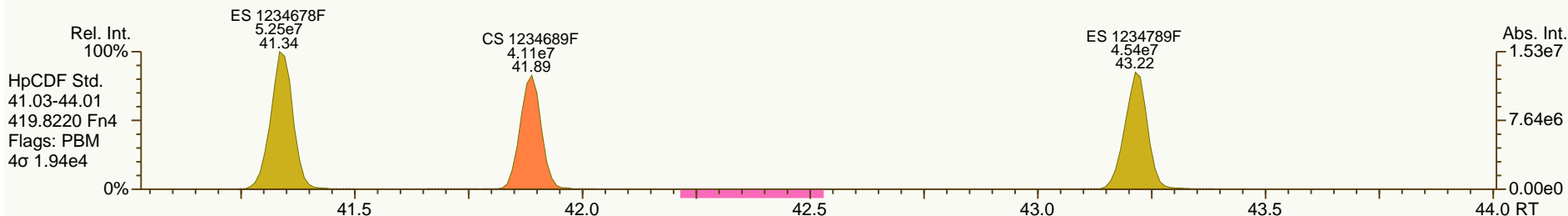
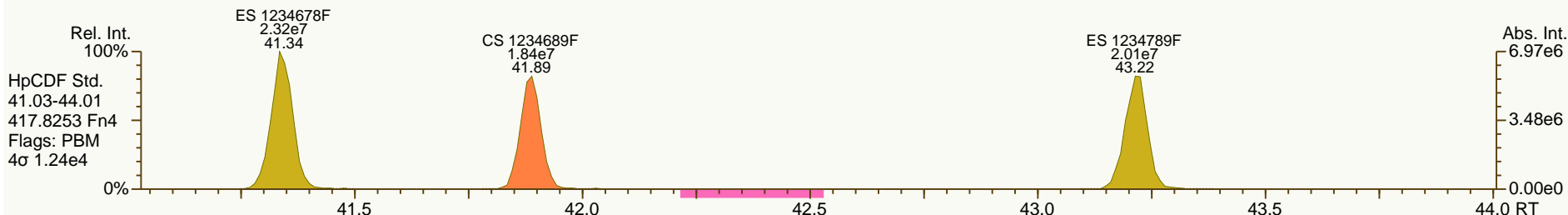
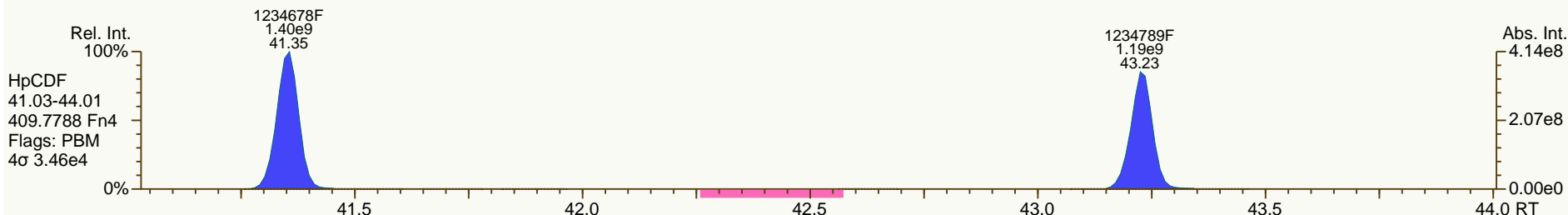
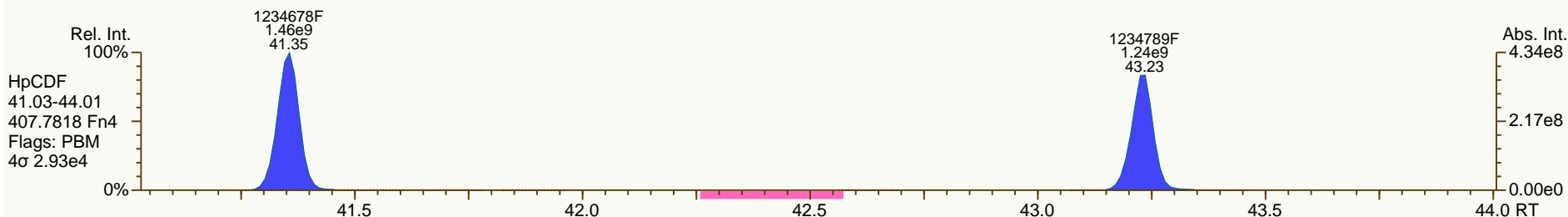
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Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

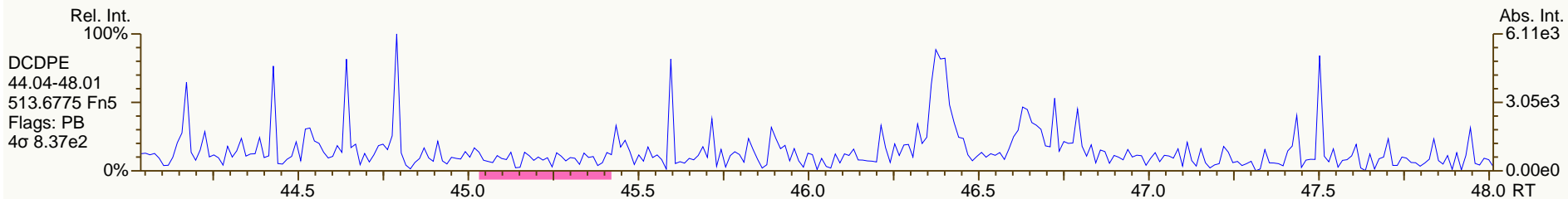
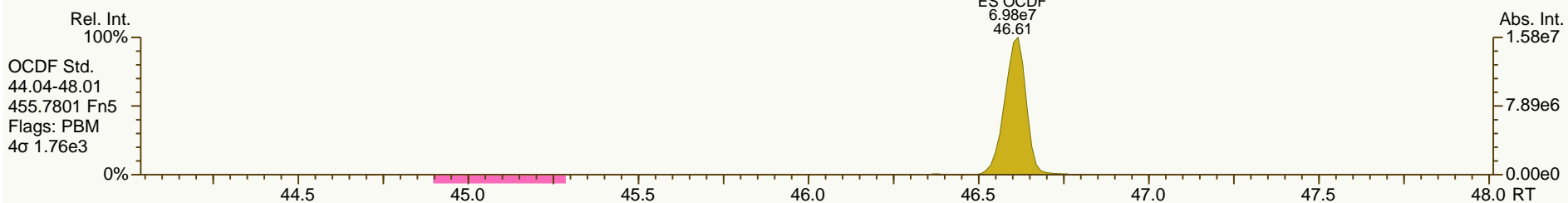
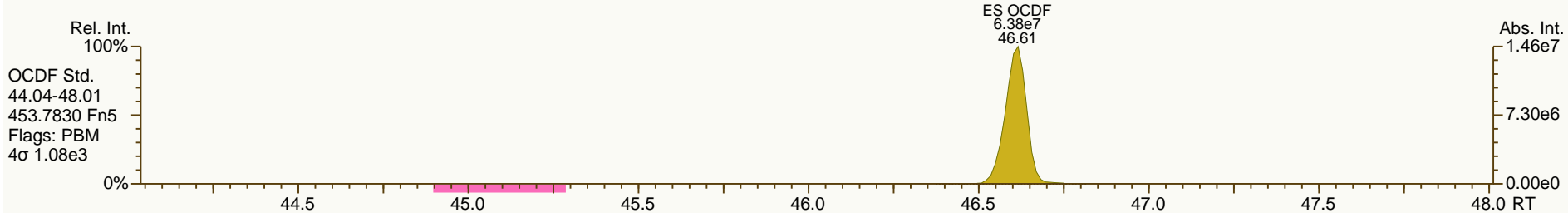
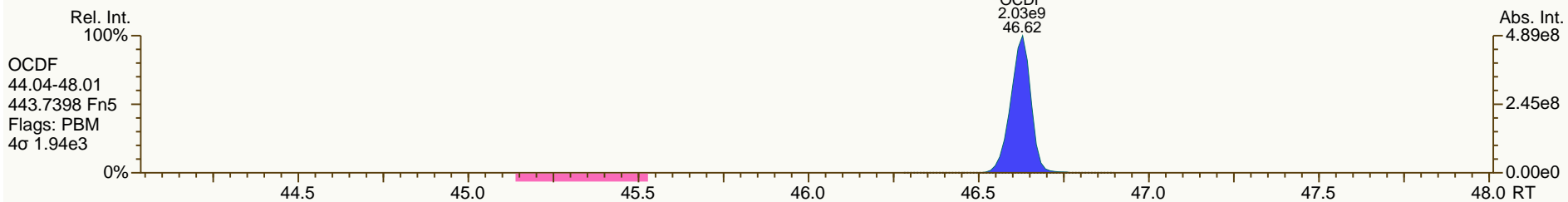
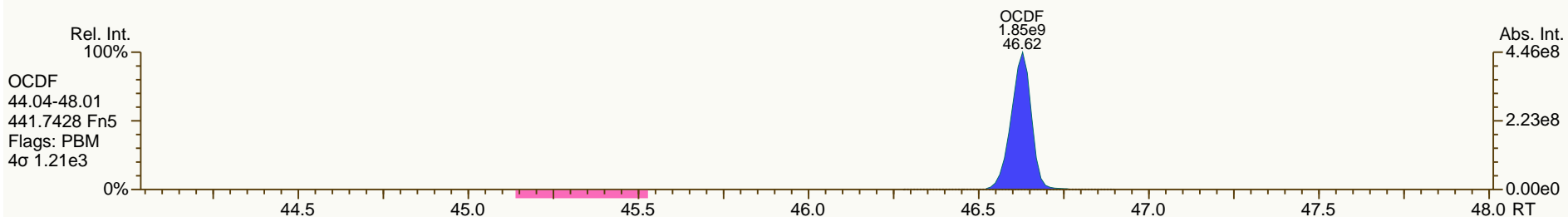
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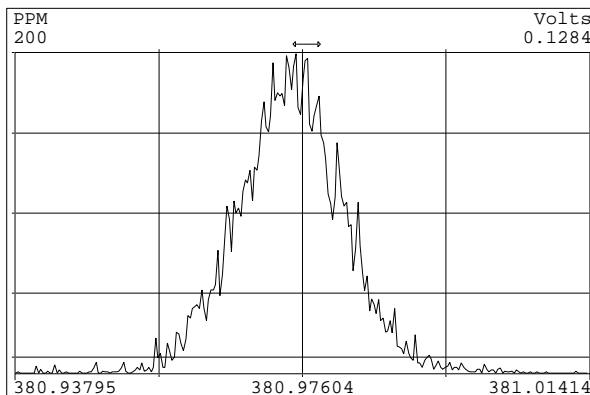
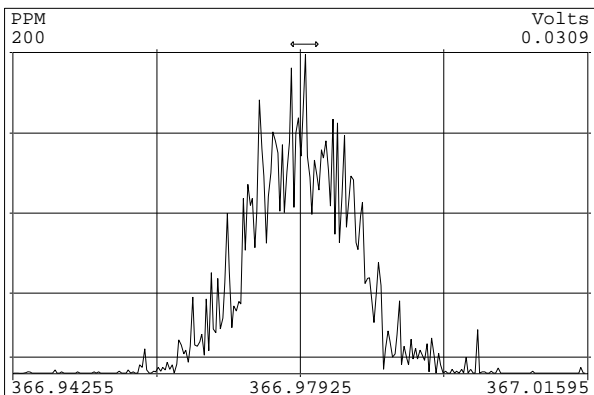
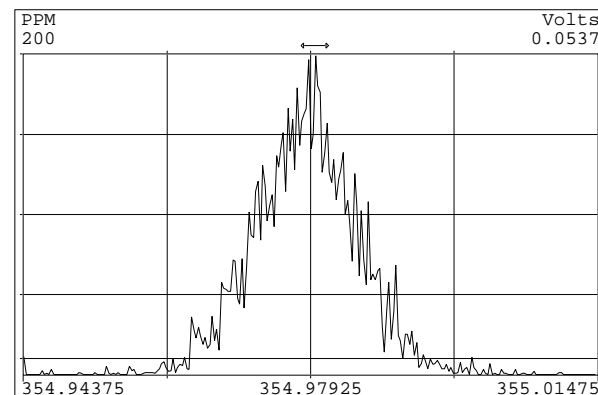
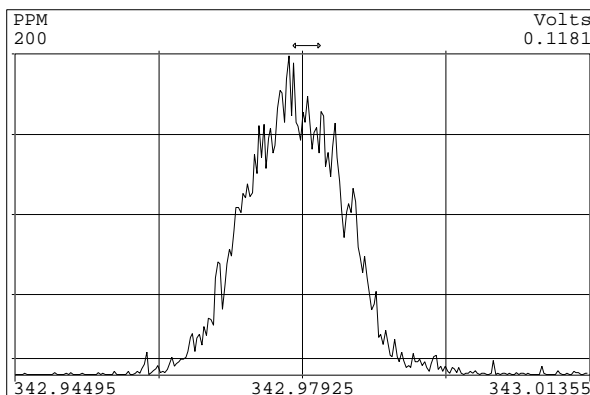
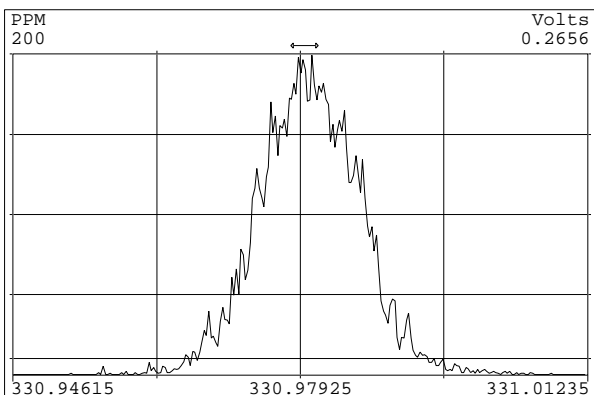
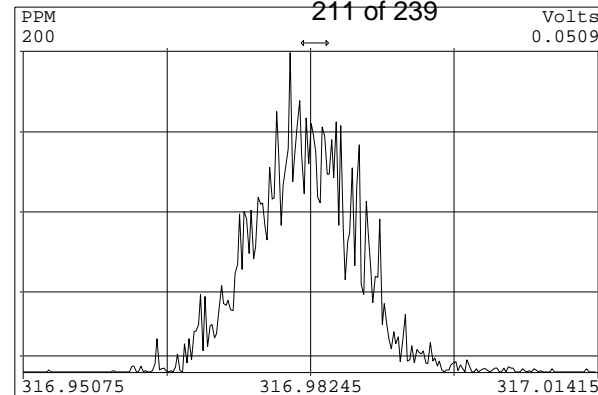
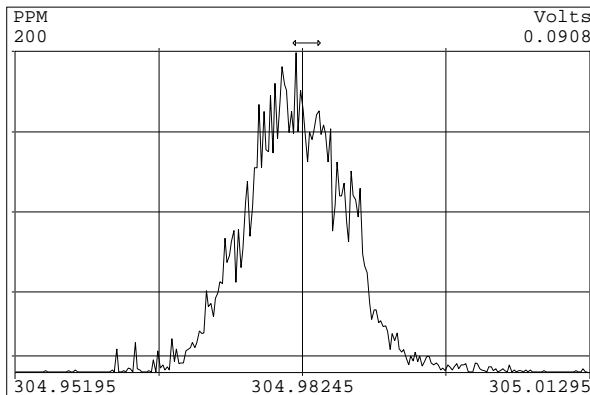
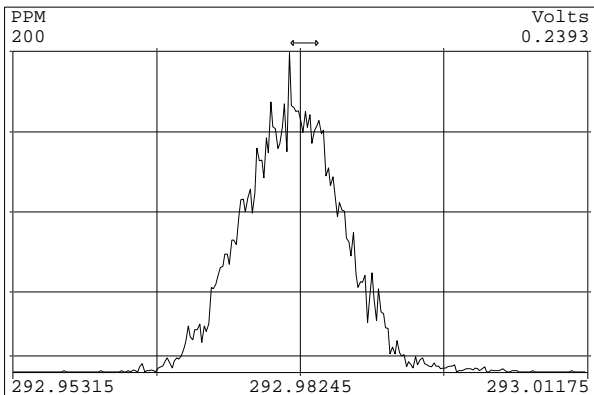


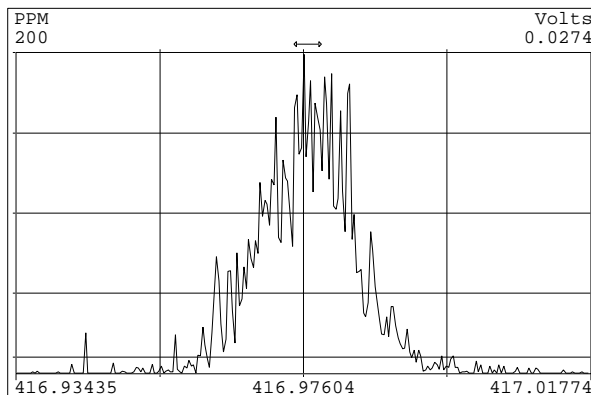
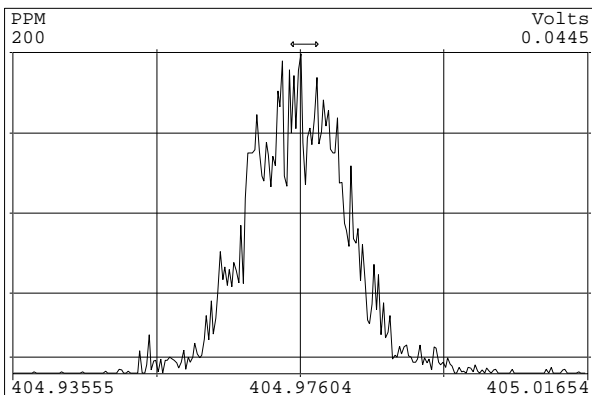
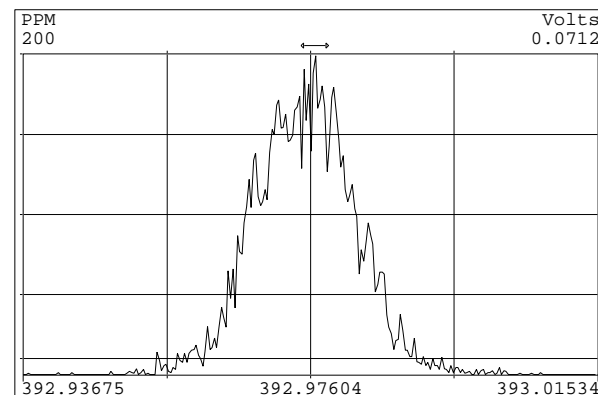
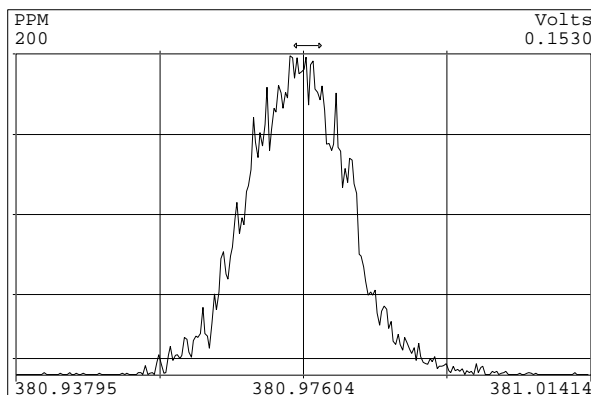
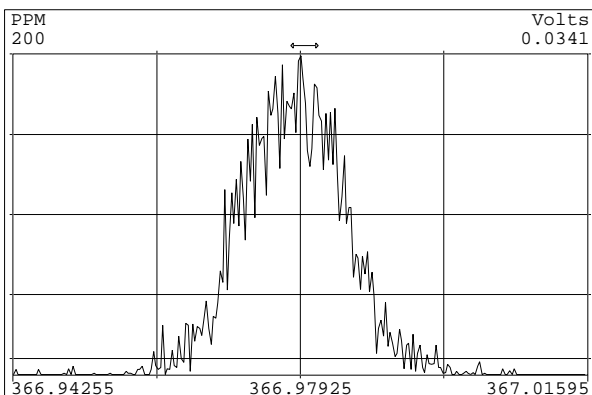
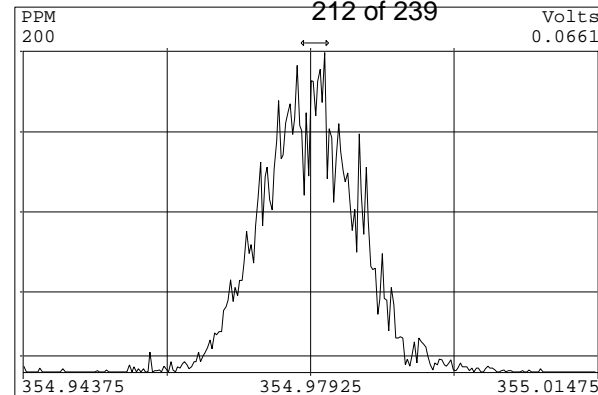
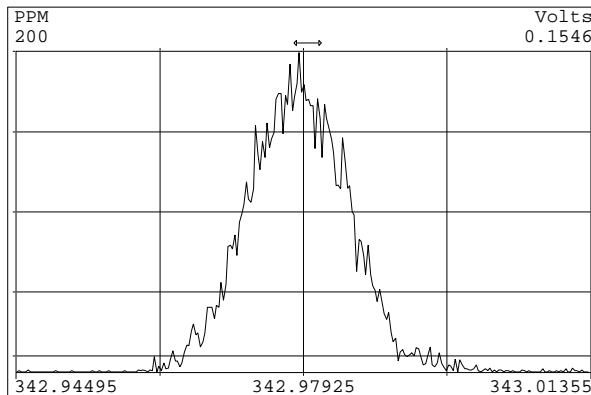
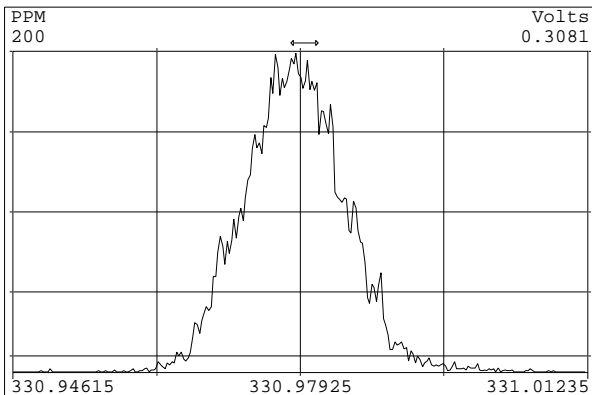
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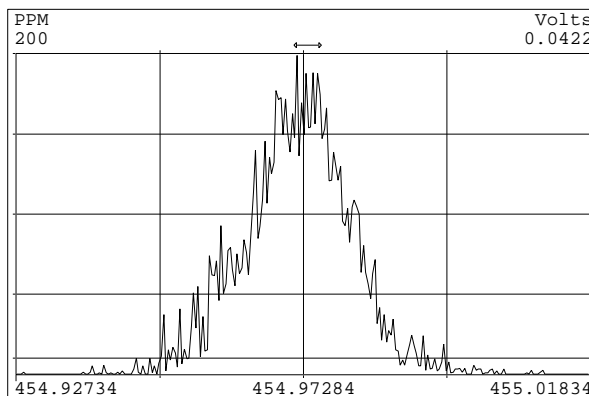
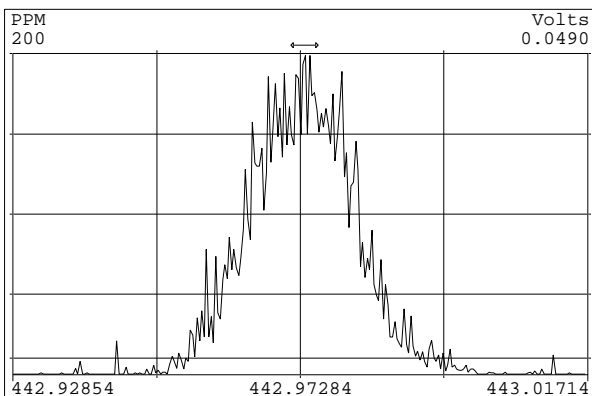
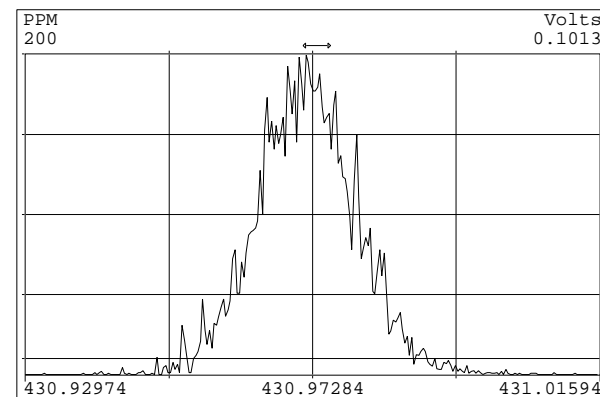
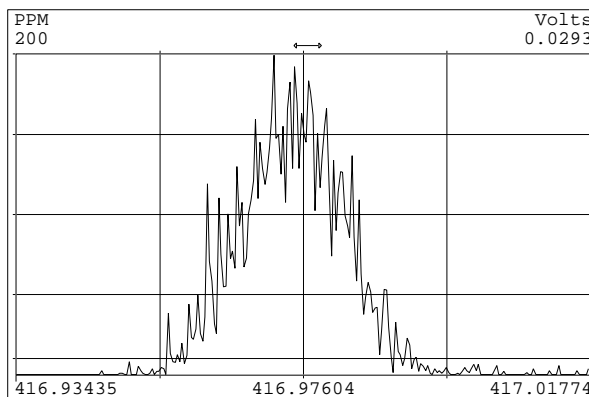
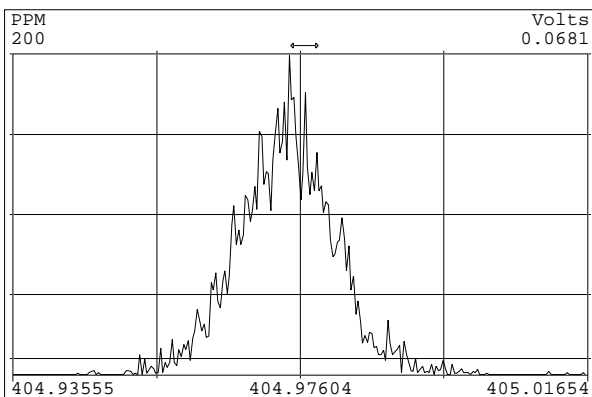
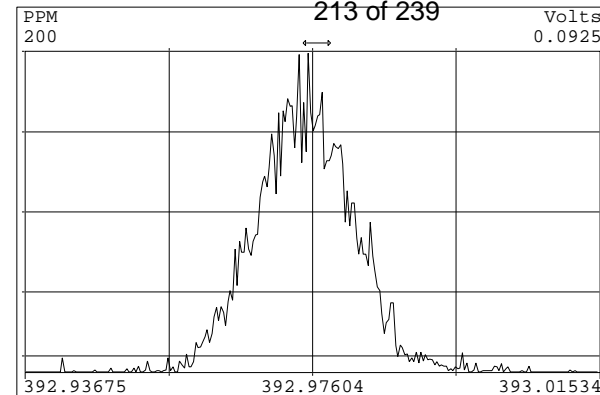
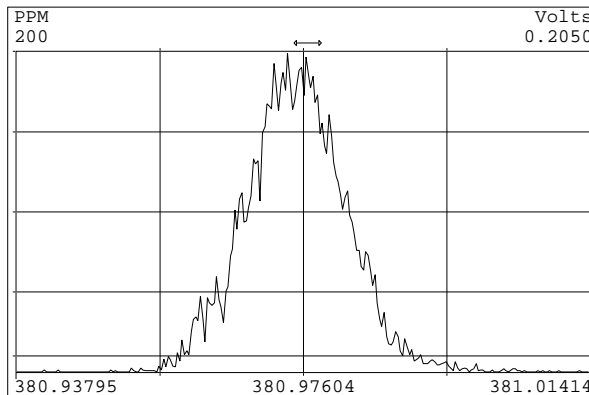
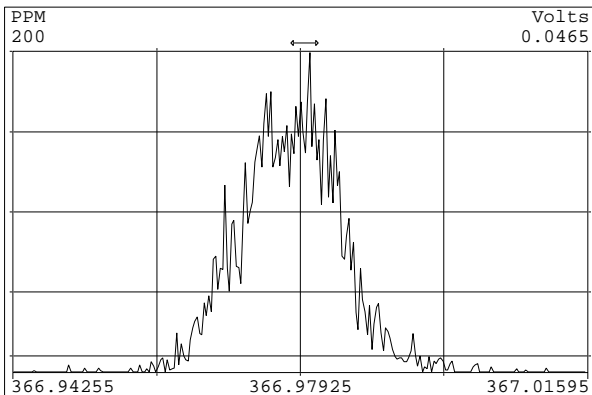
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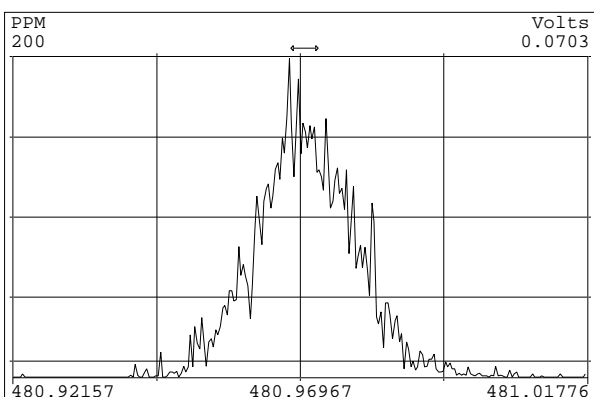
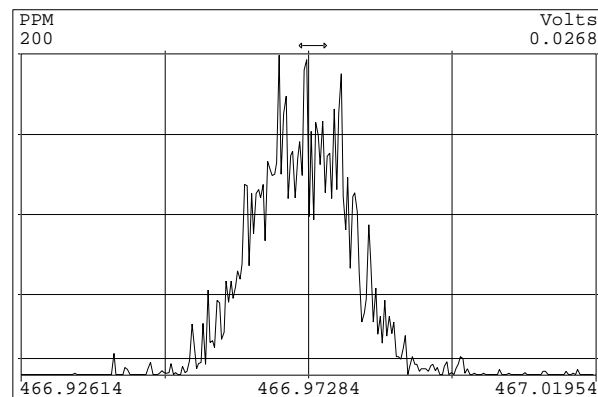
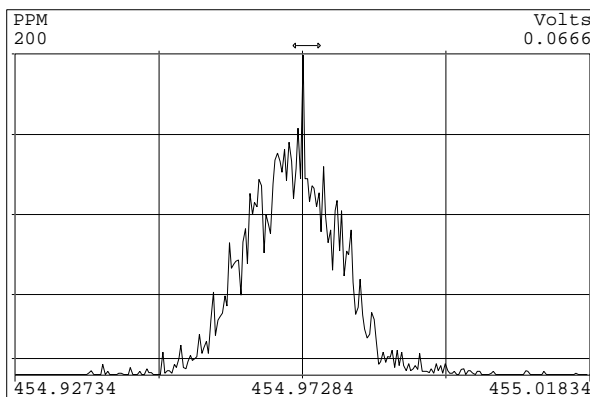
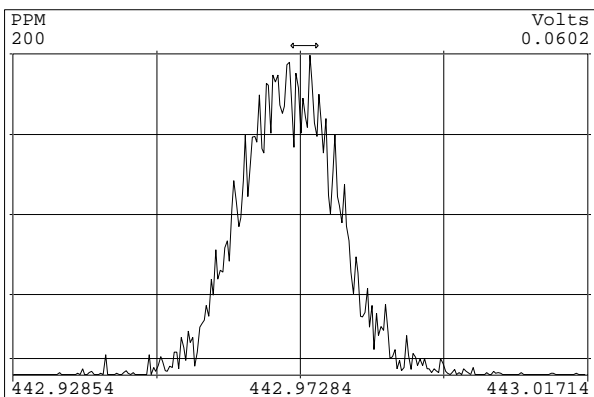
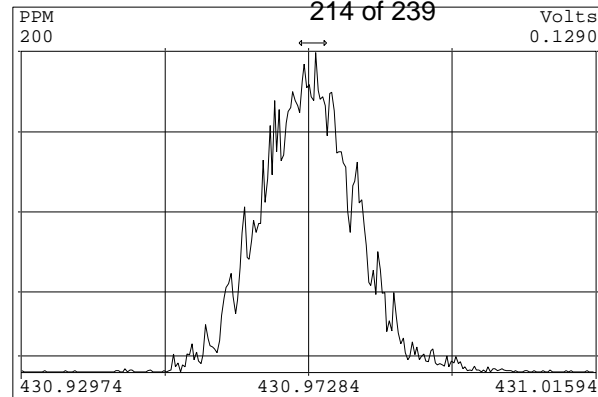
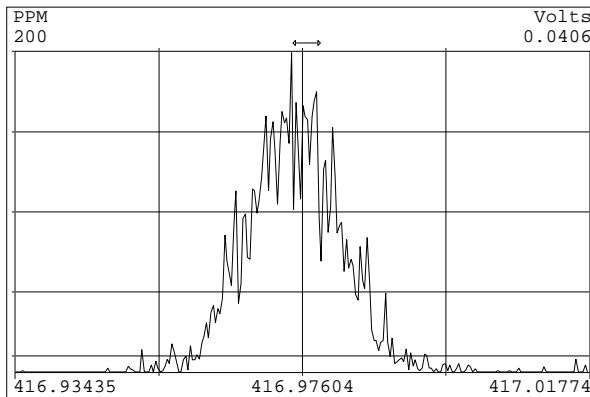
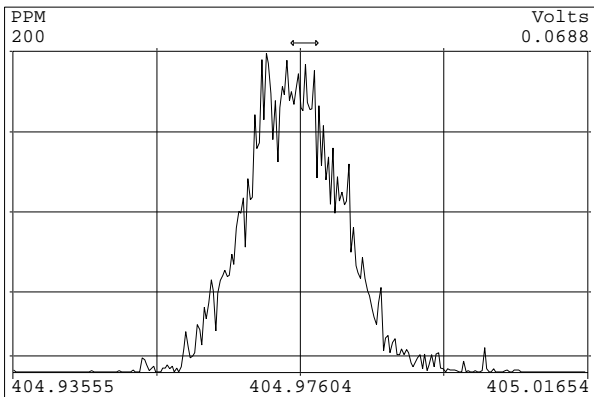
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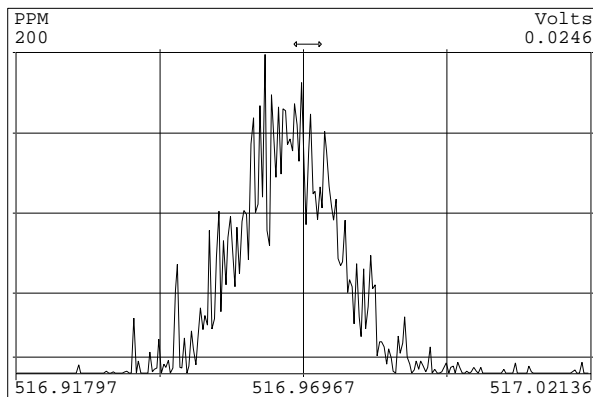
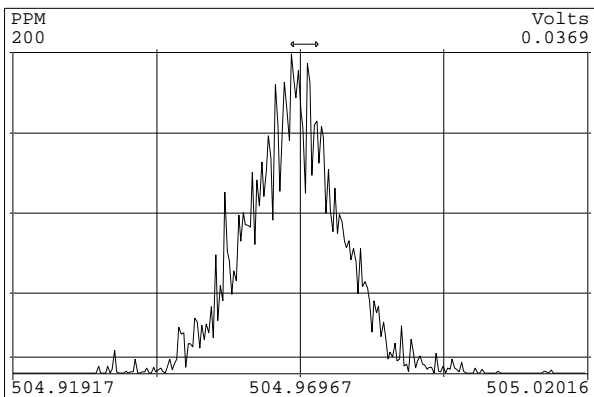
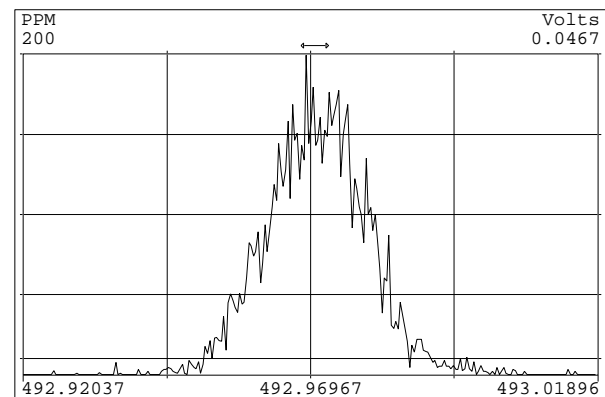
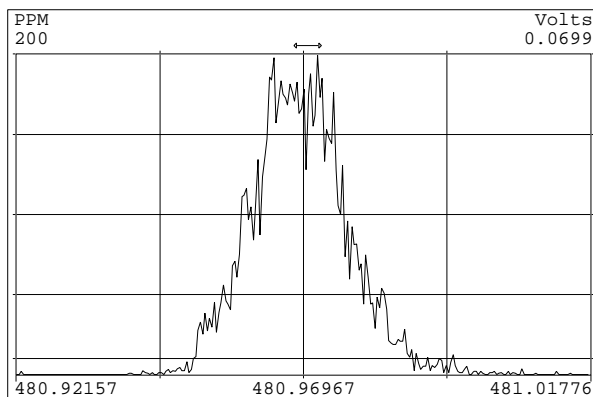
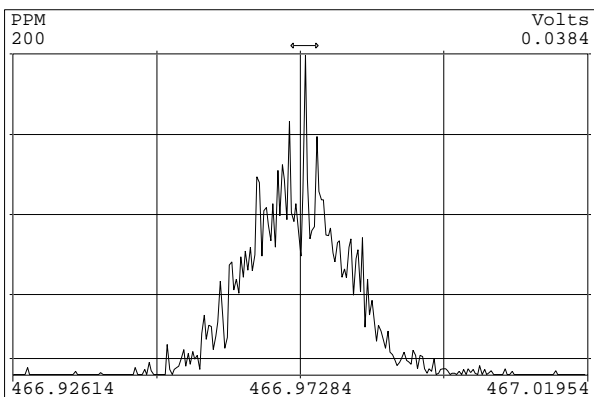
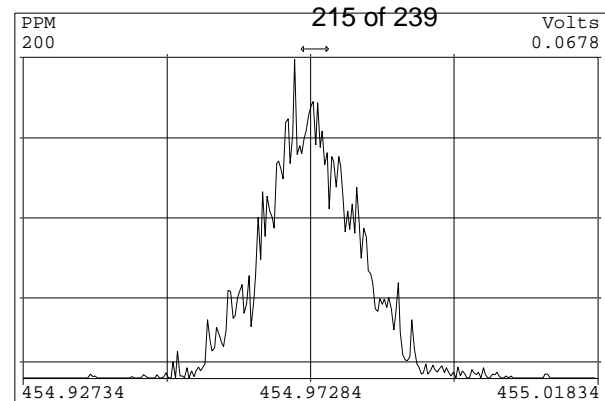
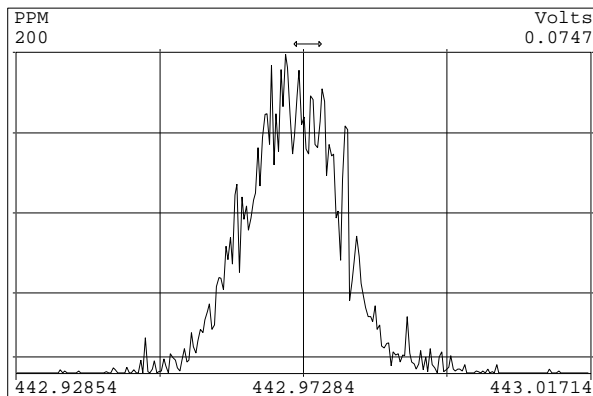
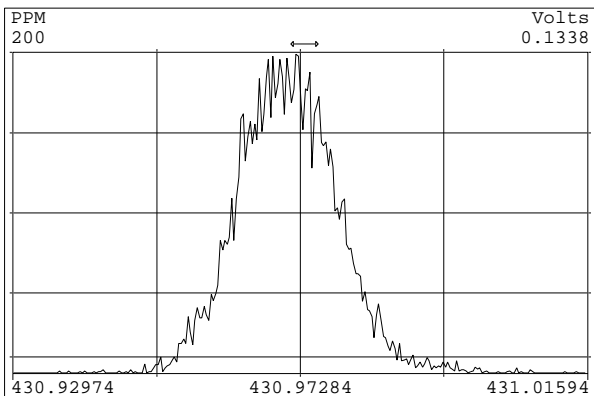


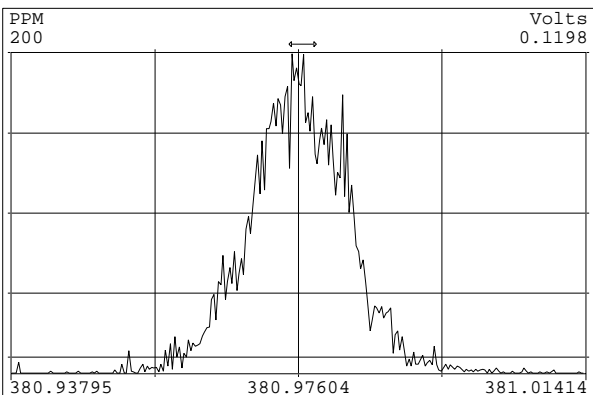
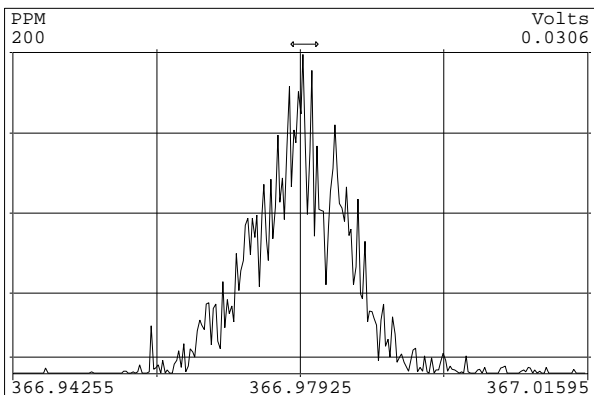
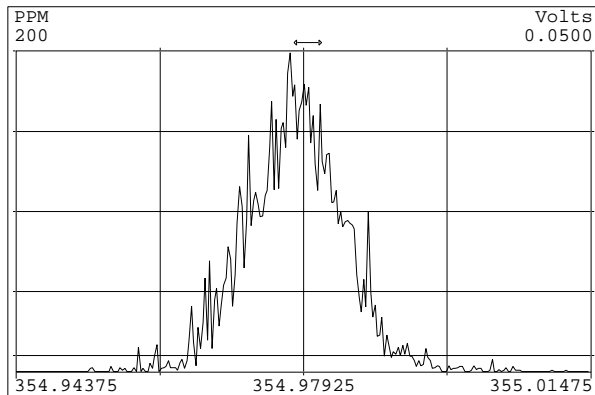
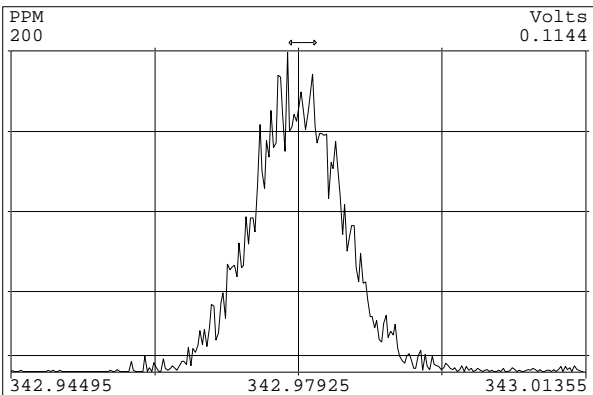
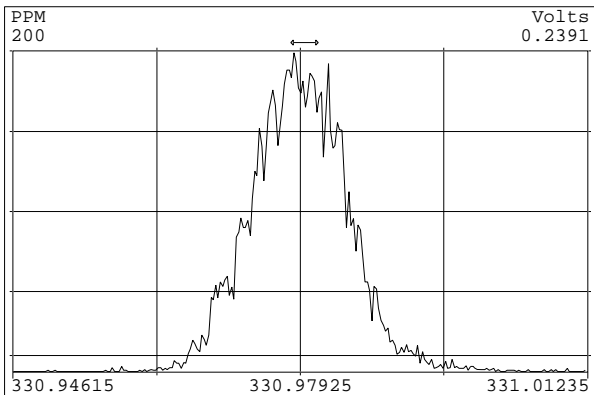
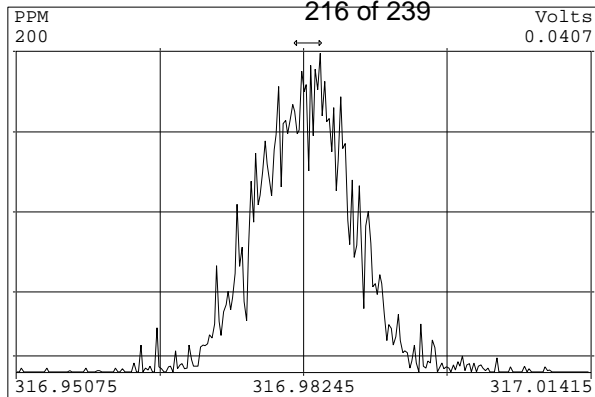
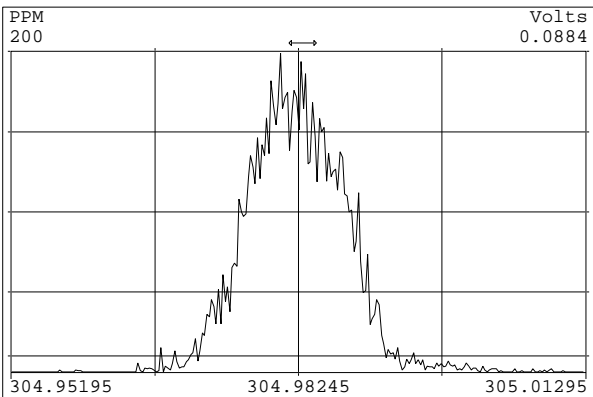
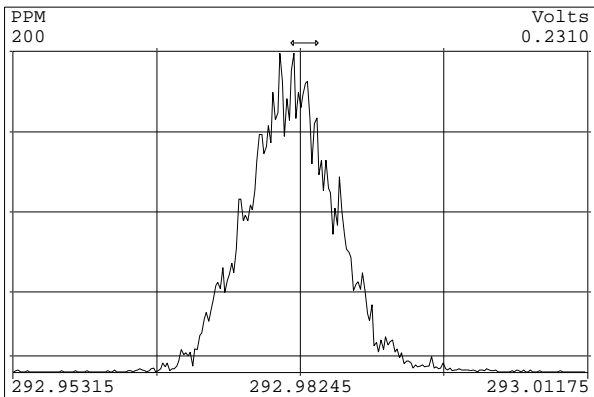


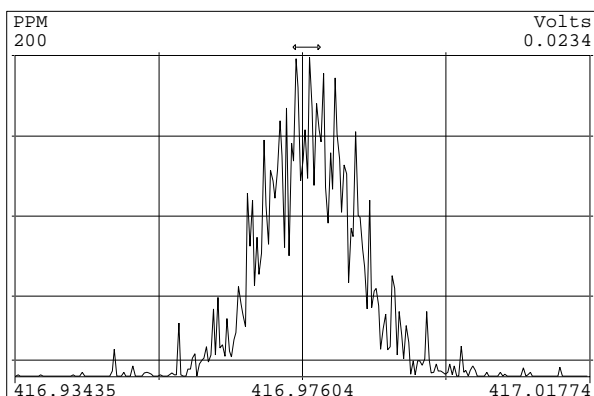
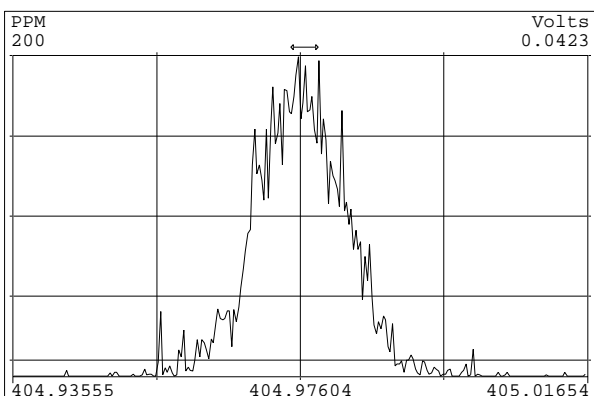
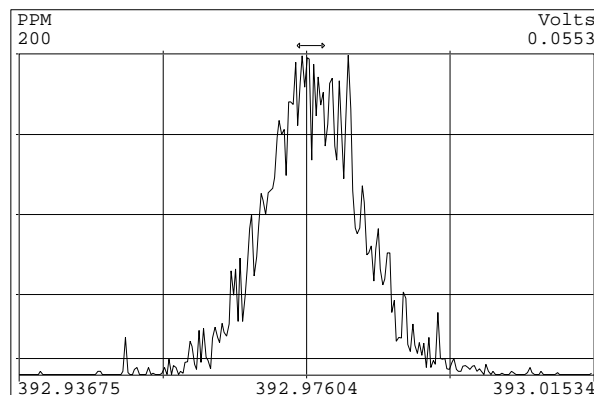
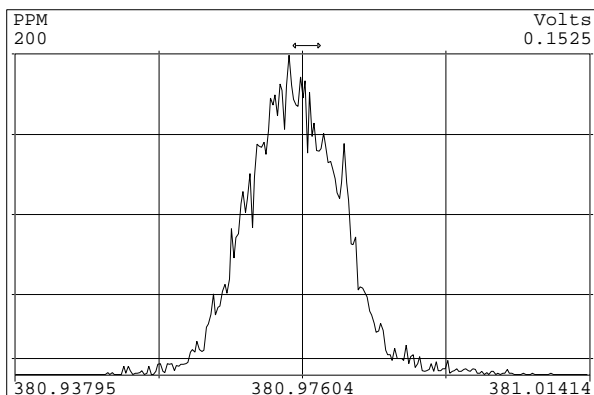
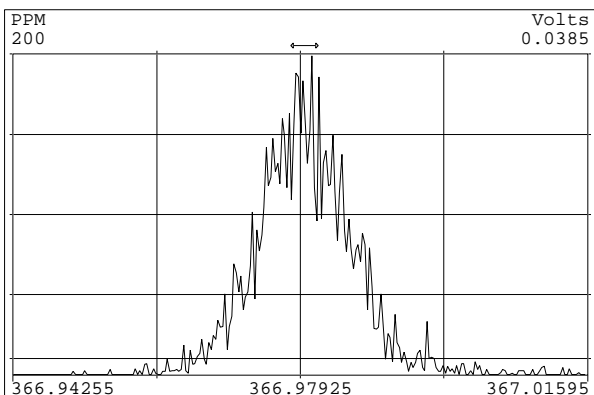
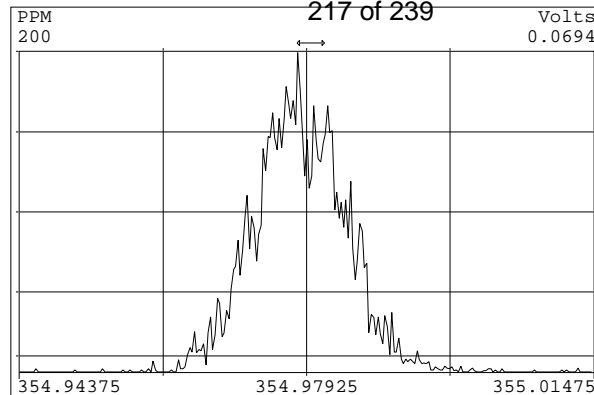
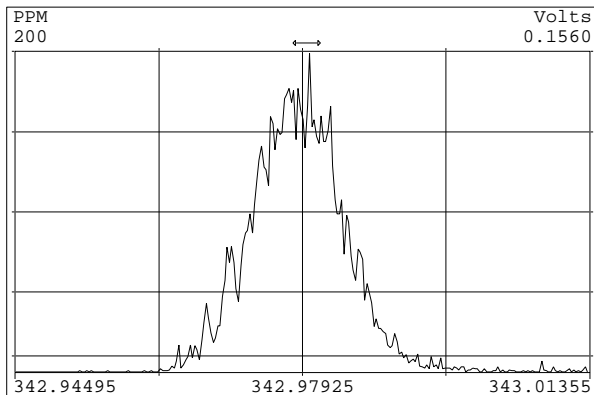
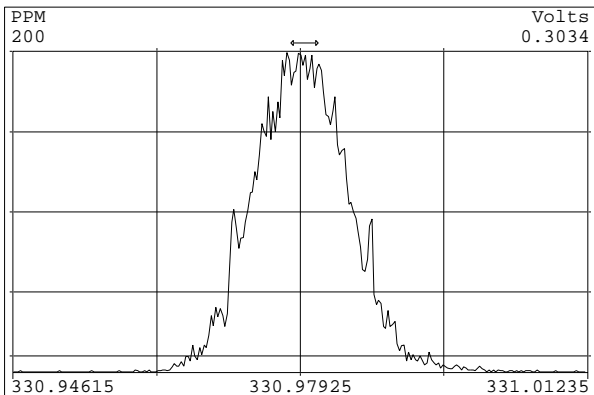


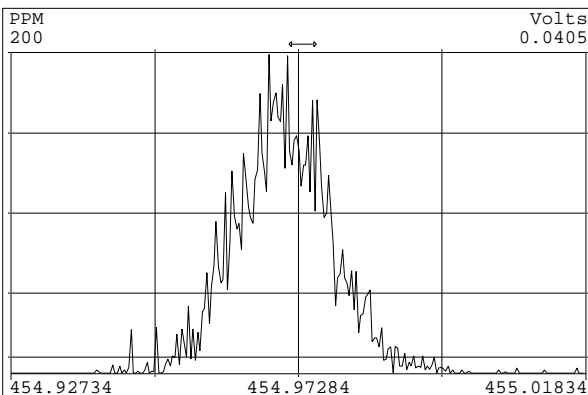
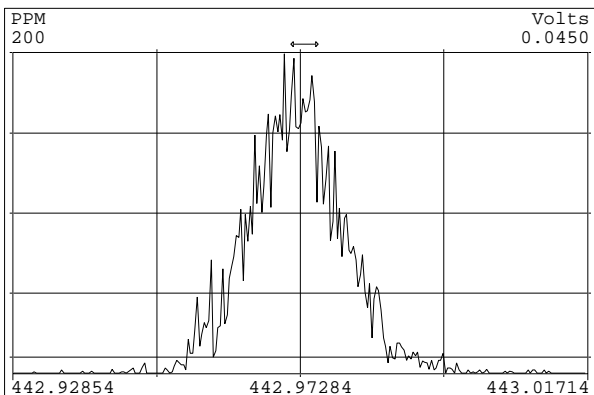
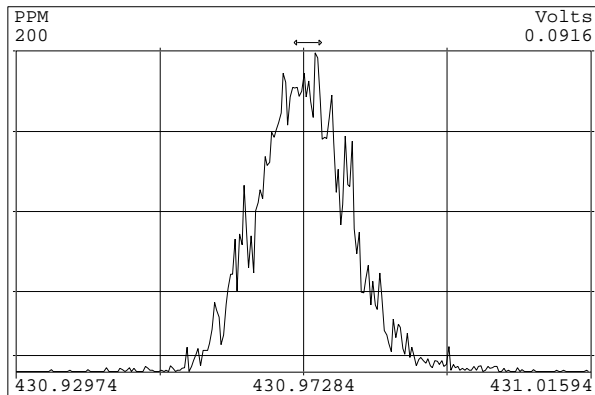
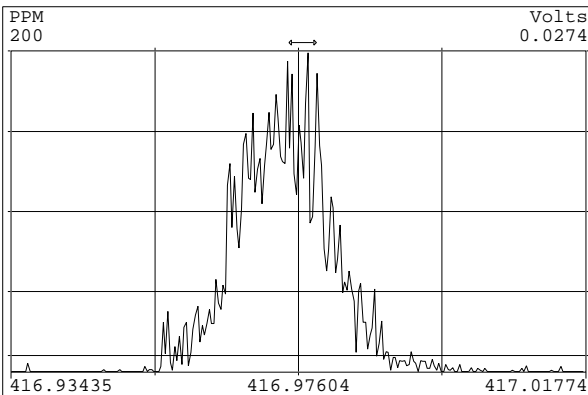
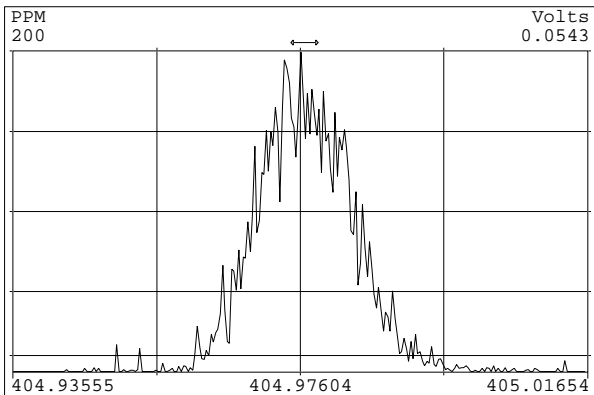
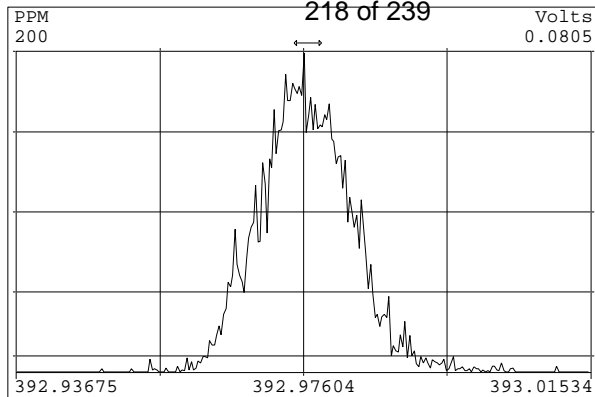
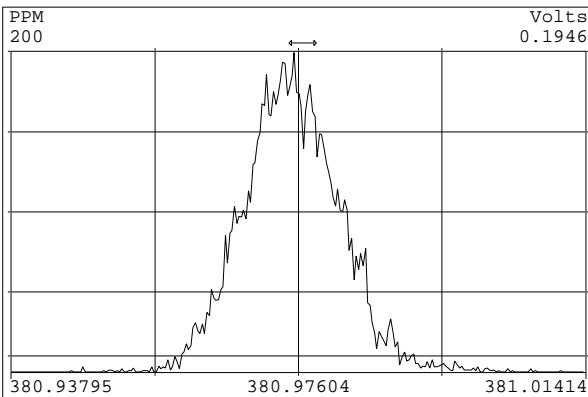
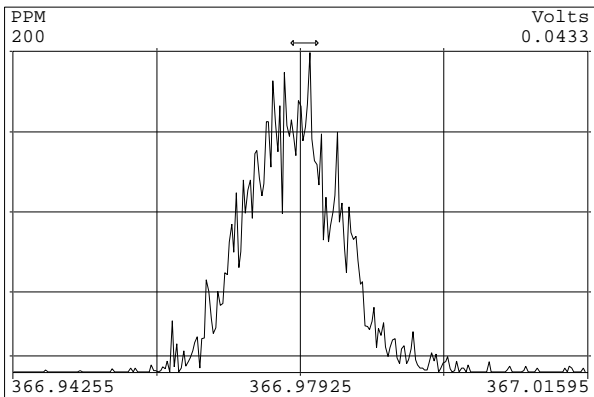


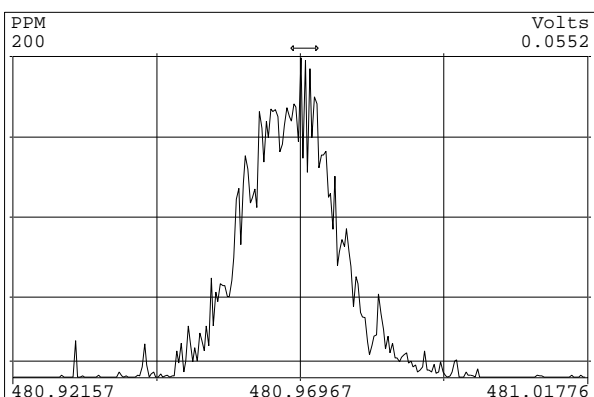
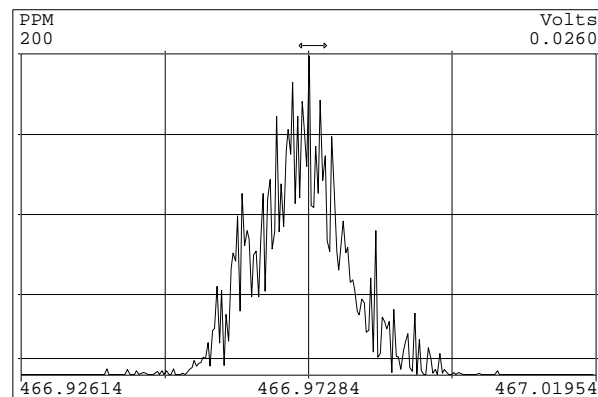
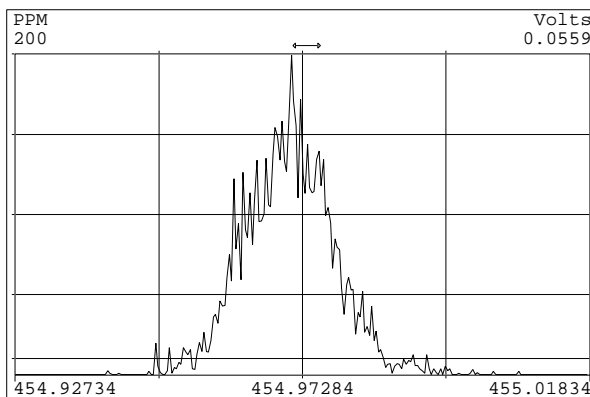
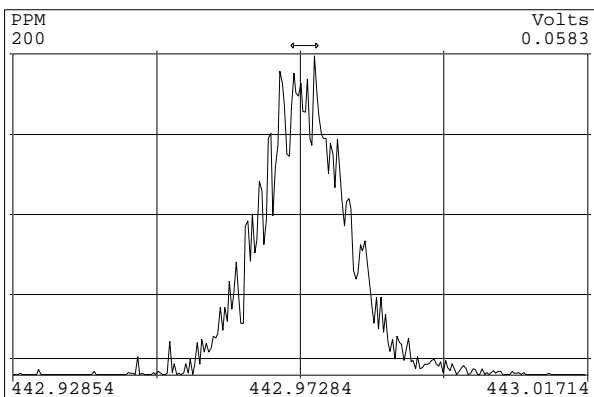
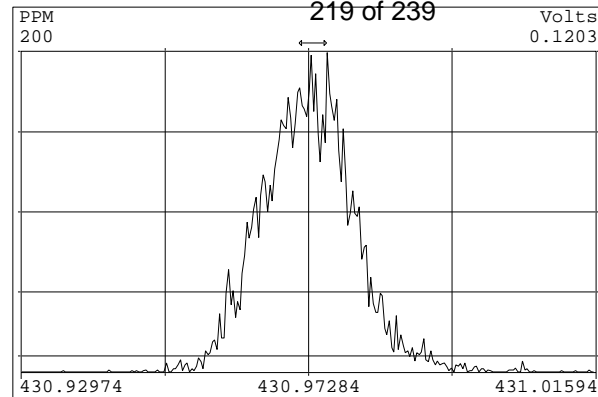
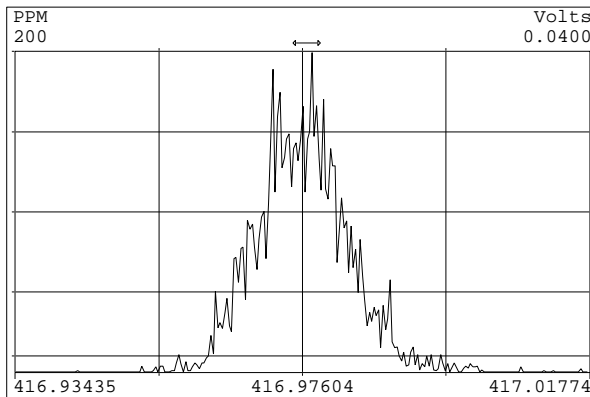
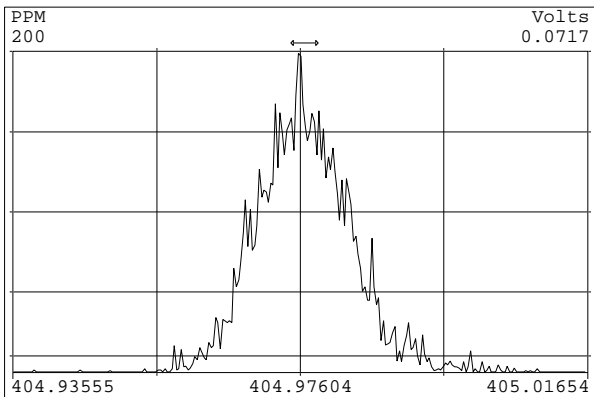


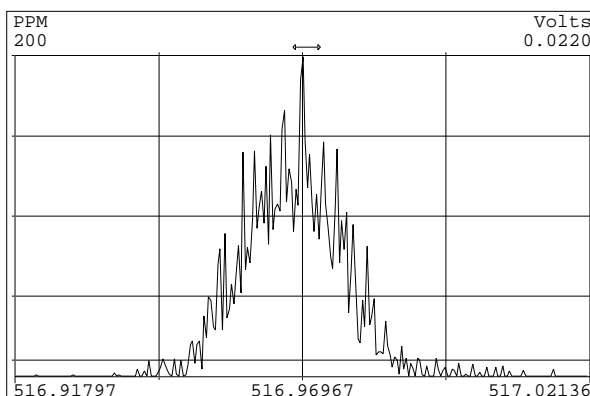
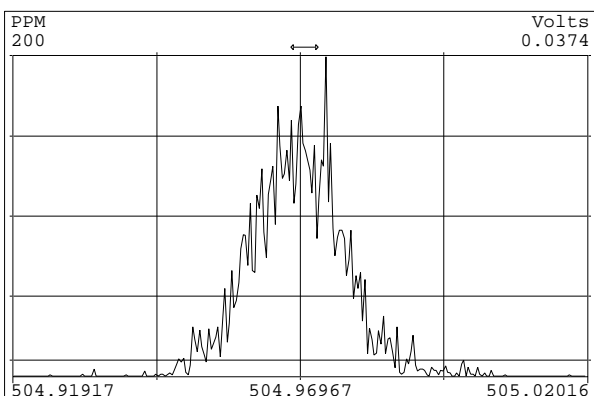
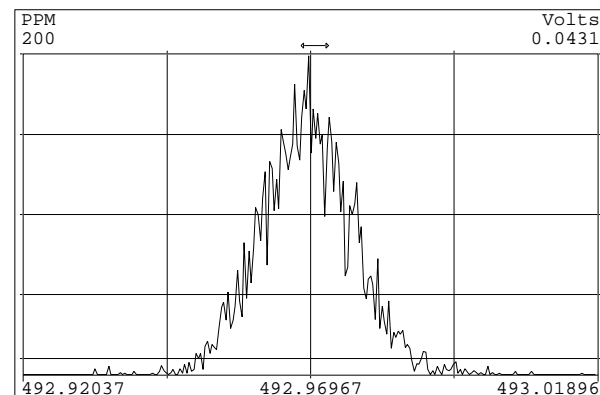
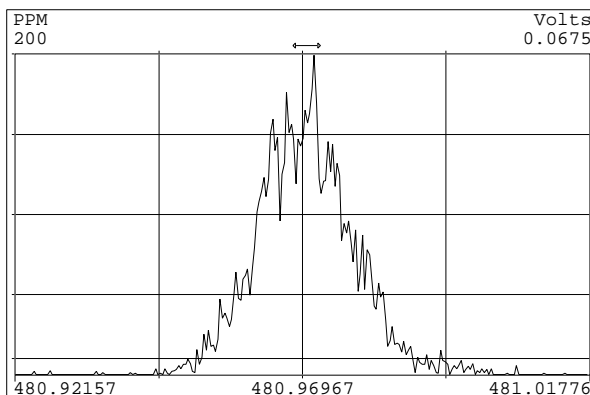
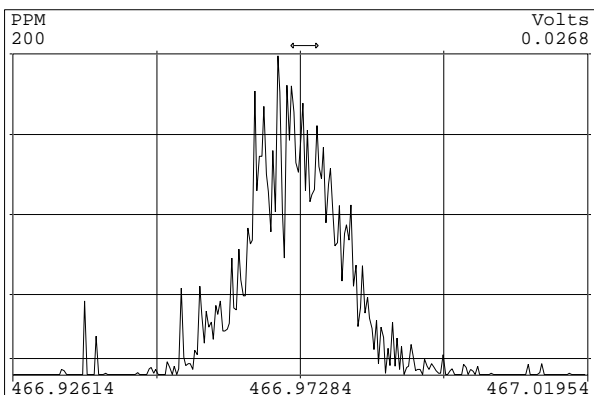
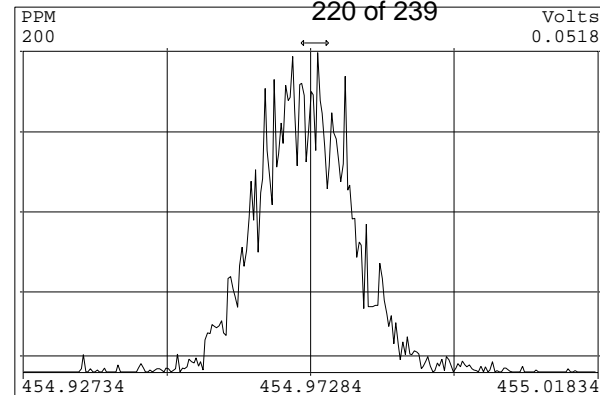
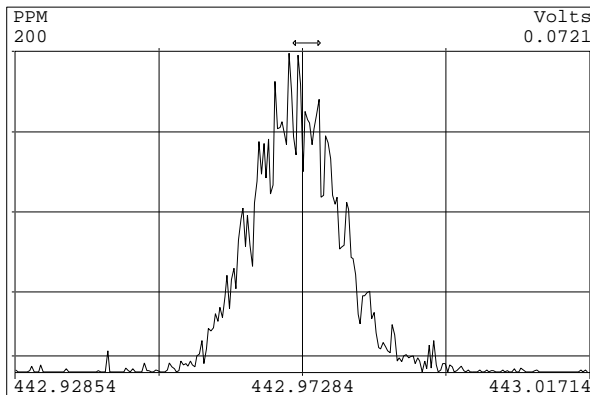
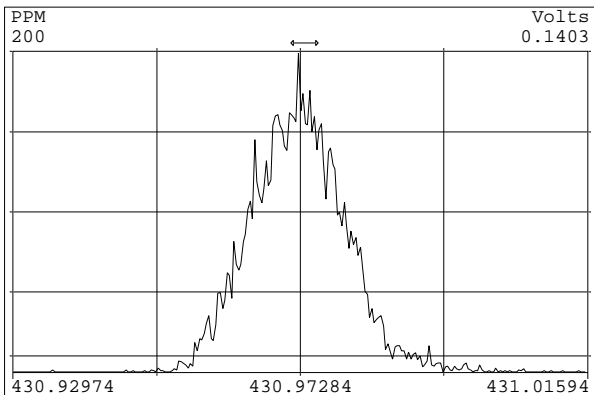












Lab ID: OPR1_11363_DF

Acq'd: 04 Oct 2013 14:25 MDC

Wt/Vol: 1.00 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: 0_11363_OPR001

UTP: 05-Oct-2013 10:55 MDC

J-level: 5 pg/g Split: 1

Checkcode: 535-838-ZYN

Datafile: 131004P1-02

Report: 08 Oct 2013 11:34 MC

Stds (pg): JS: 100 ES: 100 CS/SS: 100, 40 (37CI)

Name	Act RT	QC	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Conc.	Noise	DL
2378-TCDD	27.47		1.0009	1.0010	+0.2	5.46E+06	0.79	Y	1.18	11.1	3612	0.0908
12378-PeCDD	33.77		1.0006	1.0006	0	2.09E+07	1.59	Y	1.07	49	2317	0.0551
123478-HxCDD	38.43		1.0004	1.0004	0	2.08E+07	1.28	Y	1.19	58.1	3057	0.078
123678-HxCDD	38.56		1.0039	1.0039	0	2.12E+07	1.29	Y	1.19	60.6	3057	0.0794
123789-HxCDD	38.90		1.0127	1.0127	0	2.09E+07	1.27	Y	1.12	54.4	3057	0.0702
1234678-HpCDD	42.59		1.0003	1.0004	+0.3	1.88E+07	1.04	Y	1.08	53.2	4511	0.109
OCDD	46.33		1.0004	1.0004	0	2.57E+07	0.91	Y	1.14	109	2348	0.112
2378-TCDF	26.48		1.0010	1.0010	0	8.75E+06	0.81	Y	1.10	11.5	4265	0.0658
12378-PeCDF	32.04		1.0006	1.0007	+0.2	3.58E+07	1.54	Y	1.17	50.1	5201	0.0771
23478-PeCDF	33.36		1.0006	1.0006	0	3.72E+07	1.59	Y	1.14	52.3	5201	0.0712
123478-HxCDF	37.25		1.0005	1.0005	0	3.29E+07	1.28	Y	1.34	50.6	4050	0.0592
123678-HxCDF	37.42		1.0005	1.0005	0	3.53E+07	1.28	Y	1.23	51.7	4050	0.0565
234678-HxCDF	38.21		1.0005	1.0005	0	3.37E+07	1.28	Y	1.26	51.8	4050	0.056
123789-HxCDF	39.32		1.0005	1.0005	0	2.92E+07	1.25	Y	1.23	51	4050	0.0671
1234678-HpCDF	41.31		1.0004	1.0004	0	3.11E+07	1.04	Y	1.42	55.7	7492	0.121
1234789-HpCDF	43.20		1.0004	1.0003	-0.3	2.52E+07	1.04	Y	1.39	52.5	7492	0.14
OCDF	46.57		1.0004	1.0004	0	3.46E+07	0.90	Y	1.11	103	1822	0.0576

Name	Act RT		Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Rec. %
ES 2378-TCDD	27.45		1.0280	1.0281	+0.2	4.16E+07	0.81	Y	1.02	93.5
ES 12378-PeCDD	33.75		1.2637	1.2642	+0.8	3.97E+07	1.60	Y	0.92	99.5
ES 123478-HxCDD	38.41		0.9909	0.9909	0	3.01E+07	1.08	Y	1.02	81.8
ES 123678-HxCDD	38.54		0.9944	0.9943	-0.2	2.94E+07	1.11	Y	1.01	81.2
ES 123789-HxCDD	38.88		1.0030	1.0031	+0.2	3.44E+07	1.11	Y	1.14	83.9
ES 1234678-HpCDD	42.58		1.0983	1.0984	+0.2	3.25E+07	1.05	Y	1.02	88.6
ES OCDD	46.31		1.1946	1.1947	+0.2	4.14E+07	0.89	Y	0.72	80
ES 2378-TCDF	26.45		1.0616	1.0619	+0.4	6.94E+07	0.68	Y	1.01	95.3
ES 12378-PeCDF	32.01		1.2841	1.2851	+1.5	6.12E+07	1.51	Y	0.89	95.6
ES 23478-PeCDF	33.34		1.3373	1.3383	+1.5	6.21E+07	1.46	Y	0.91	94.9
ES 123478-HxCDF	37.24		0.9606	0.9606	0	4.85E+07	0.54	Y	1.53	88.2
ES 123678-HxCDF	37.40		0.9649	0.9649	0	5.54E+07	0.55	Y	1.73	89.4
ES 234678-HxCDF	38.19		0.9853	0.9852	-0.2	5.17E+07	0.53	Y	1.61	89.2
ES 123789-HxCDF	39.30		1.0138	1.0139	+0.2	4.64E+07	0.55	Y	1.39	92.8
ES 1234678-HpCDF	41.29		1.0653	1.0653	0	3.93E+07	0.43	Y	1.20	91.2
ES 1234789-HpCDF	43.18		1.1138	1.1140	+0.5	3.46E+07	0.44	Y	1.07	90
ES OCDF	46.55		1.2009	1.2010	+0.2	6.08E+07	0.91	Y	1.04	81.1

APPROVED

By Amy Boehm at 1:21 pm, Oct 08, 2013

Lab ID: OPR1_11363_DF
 Client ID: 0_11363_OPR001
 Datafile: 131004P1-02

Acq'd: 04 Oct 2013 14:25 MDC
 UTP: 05-Oct-2013 10:55 MDC
 Report: 08 Oct 2013 11:34 MC

Wt/Vol: 1.00 g
 J-level: 5 pg/g Split: 1
 Stds (pg): JS: 100 ES: 100 CS/SS: 100, 40 (37Cl)
 ICAL: MM1_DF_11012012A_18SEPT2013
 Checkcode: 535-838-ZYN

Name	Act RT	QC	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Rec. %
JS 1234-TCDD	26.70		-	-	-	4.35E+07	0.80	Y	-	-
JS 1234-TCDF	24.91		-	-	-	7.23E+07	0.67	Y	-	-
JS 123467-HxCDD	38.76		-	-	-	1.80E+07	1.08	Y	-	-
CS 37Cl-2378-TCDD	27.47		1.0289	1.0291	+0.3	1.96E+07	n/a	-	1.13	99.7
CS 12347-PeCDD	33.16		1.2414	1.2420	+1.0	3.72E+07	1.58	Y	0.88	97.8
CS 12346-PeCDF	31.39		1.2593	1.2601	+1.2	5.89E+07	1.50	Y	0.90	90.5
CS 123469-HxCDF	37.77		0.9744	0.9743	-0.2	5.11E+07	0.53	Y	1.40	102
CS 1234689-HpCDF	41.86		1.0796	1.0798	+0.5	3.64E+07	0.43	Y	1.09	92.9
SS 37Cl-2378-TCDD	27.47		1.0289	1.0291	+0.3	1.96E+07	n/a	-	1.11	106
SS 12347-PeCDD	33.16		1.2414	1.2420	+1.0	3.72E+07	1.58	Y	0.96	97.8
SS 12346-PeCDF	31.39		1.2593	1.2601	+1.2	5.89E+07	1.50	Y	1.02	94.1
SS 123469-HxCDF	37.77		0.9744	0.9743	-0.2	5.11E+07	0.53	Y	0.81	113
SS 1234689-HpCDF	41.86		1.0796	1.0798	+0.5	3.64E+07	0.43	Y	0.91	101
AS 1368-TCDD	23.32		0.8739	0.8734	-0.8	4.65E+07	0.79	Y	1.01	106
AS 1368-TCDF	21.12		0.8480	0.8479	-0.1	7.98E+07	0.75	Y	1.22	90.4
FS 1278-TCDD	NotFnd		1.0138							
FS 12478-PeCDD	NotFnd		0.9570							
FS 123468-HxCDD	NotFnd		0.9674							
FS 1234679-HpCDD	NotFnd		0.9788							
TS 1378-TCDD	NotFnd		0.9315							

Totals	Conc	EMPC		
Total TCDD	50.1	50.1	* 37Cl correction has been applied to 2378-TCDD	
Total PeCDD	74.1	74.1	Original Values	Corrected Values
Total HxCDD	186	186	Ratio 0.79	0.79
Total HpCDD	65.6	65.6	Response 5.48E+06	5.46E+06
Total Tetra-Octa Dioxins	485	485		
Total TCDF	50.9	50.9		
Total PeCDF	123	123		
Total HxCDF	217	217		
Total HpCDF	108	108		
Total Tetra-Octa Furans	602	602		
Total Tetra-Octa Dioxins & Furans	1090	1090		

METHOD 1613B**PCDD/F ONGOING PRECISION AND RECOVERY (OPR)****FORM 8A**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
 Instrument ID: MM1 GC Column ID: ZB-5ms
 VER Data Filename: 131004P1-02 Analysis Date: 04-OCT-2013 14:25:13
 Lab ID: OPR1_11363_DF

NATIVE ANALYTES	SPIKE CONC.	CONC. FOUND	RANGE (ng/mL)		OK
2,3,7,8-TCDD	10	11.1	6.7	- 15.8	Y
1,2,3,7,8-PeCDD	50	49	35	- 71	Y
1,2,3,4,7,8-HxCDD	50	58.1	35	- 82	Y
1,2,3,6,7,8-HxCDD	50	60.6	38	- 67	Y
1,2,3,7,8,9-HxCDD	50	54.4	32	- 81	Y
1,2,3,4,6,7,8-HpCDD	50	53.2	35	- 70	Y
OCDD	100	109	78	- 144	Y
2,3,7,8-TCDF	10	11.5	7.5	- 15.8	Y
1,2,3,7,8-PeCDF	50	50.1	40	- 67	Y
2,3,4,7,8-PeCDF	50	52.3	34	- 80	Y
1,2,3,4,7,8-HxCDF	50	50.6	36	- 67	Y
1,2,3,6,7,8-HxCDF	50	51.7	42	- 65	Y
2,3,4,6,7,8-HxCDF	50	51.8	35	- 78	Y
1,2,3,7,8,9-HxCDF	50	51	39	- 65	Y
1,2,3,4,6,7,8-HpCDF	50	55.7	41	- 61	Y
1,2,3,4,7,8,9-HpCDF	50	52.5	39	- 69	Y
OCDF	100	103	63	- 170	Y

Contract-required concentration limits for OPR as specified in Table 6,
 Method 1613. 10/94

METHOD 1613B**PCDD/F ONGOING PRECISION AND RECOVERY (OPR)****FORM 8B**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
 Instrument ID: MM1 GC Column ID: ZB-5ms
 VER Data Filename: 131004P1-02 Analysis Date: 04-OCT-2013 14:25:13
 Lab ID: OPR1_11363_DF

LABELED ANALYTES	SPIKE CONC.	CONC. FOUND	RANGE (ng/mL)			OK
13C-2,3,7,8-TCDD	100	93.5	20	-	175	Y
13C-1,2,3,7,8-PeCDD	100	99.5	21	-	227	Y
13C-1,2,3,4,7,8-HxCDD	100	81.8	21	-	193	Y
13C-1,2,3,6,7,8-HxCDD	100	81.2	25	-	163	Y
13C-1,2,3,7,8,9-HxCDD	100	83.9	26	-	166	Y
13C-1,2,3,4,6,7,8-HpCDD	100	88.6	26	-	166	Y
13C-OCDD	200	160	26	-	397	Y
13C-2,3,7,8-TCDF	100	95.3	22	-	152	Y
13C-1,2,3,7,8-PeCDF	100	95.6	21	-	192	Y
13C-2,3,4,7,8-PeCDF	100	94.9	13	-	328	Y
13C-1,2,3,4,7,8-HxCDF	100	88.2	19	-	202	Y
13C-1,2,3,6,7,8-HxCDF	100	89.4	21	-	159	Y
13C-2,3,4,6,7,8-HxCDF	100	89.2	22	-	176	Y
13C-1,2,3,7,8,9-HxCDF	100	92.8	17	-	205	Y
13C-1,2,3,4,6,7,8-HpCDF	100	91.2	21	-	158	Y
13C-1,2,3,4,7,8,9-HpCDF	100	90	20	-	186	Y
13C-OCDF	200	162	26	-	397	Y
CLEANUP STANDARD						
37Cl-2,3,7,8-TCDD	40	39.9	12.4	-	76.4	Y

Contract-required concentration limits for OPR as specified in Table 6,
 Method 1613. 10/94

Processed: 05 Oct 2013 10:56 Analyst: MC

METHOD 1613B**COLUMN PERFORMANCE AND RETENTION TIME WINDOWS****FORM CPSM**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
 Instrument ID: MM1 GC Column ID: ZB-5ms
 CPSM Data Filename: 131004P1-02 Analysis Date: 04-OCT-2013 14:25:13
 Lab ID: OPR1_11363_DF

Window Defining Standards Results

First Eluting Isomer	RT	Last Eluting Isomer	RT
1368-TCDD	23.35	1289-TCDD	28.61
12479/12468-PeCDD	30.82	12389-PeCDD	34.29
124679/124689-HxCDD	36.39	123789-HxCDD	38.90
1234679-HpCDD	41.69	1234678-HpCDD	42.59
1368-TCDF	21.15	1289-TCDF	28.80
13468/12468-PeCDF	28.75	12389-PeCDF	34.63
123468-HxCDF	35.60	123789-HxCDF	39.32
1234678-HpCDF	41.31	1234789-HpCDF	43.20

Isomer Specificity Test Standard Results

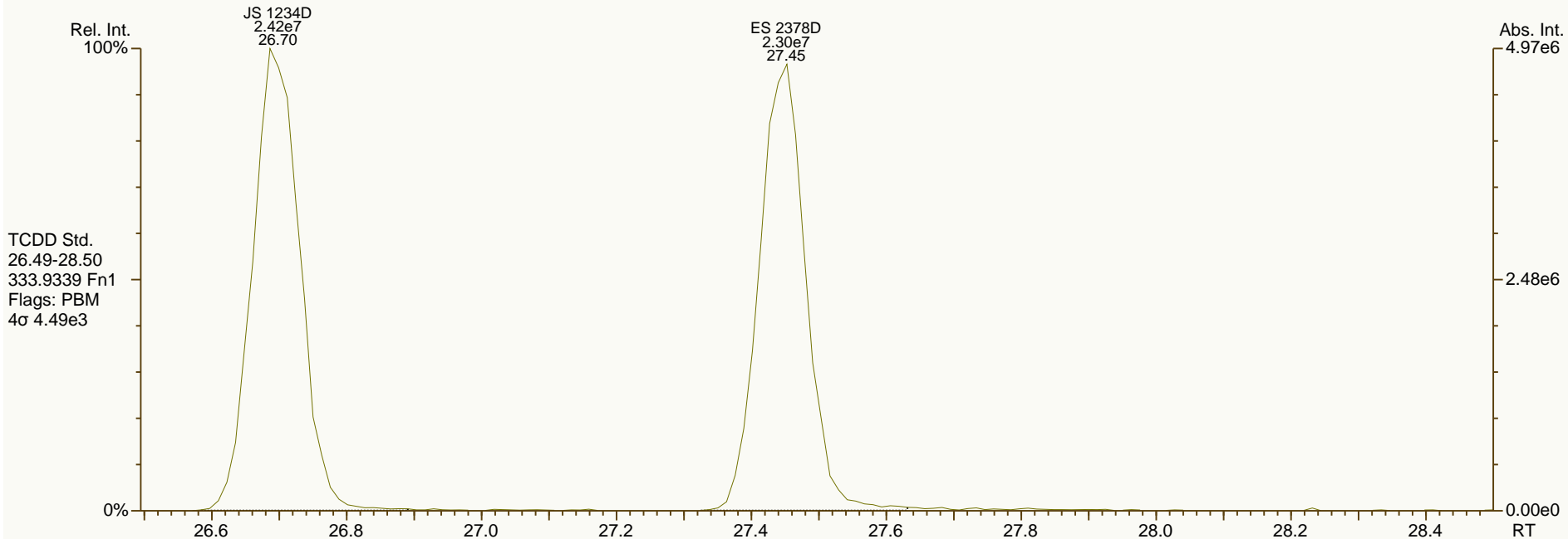
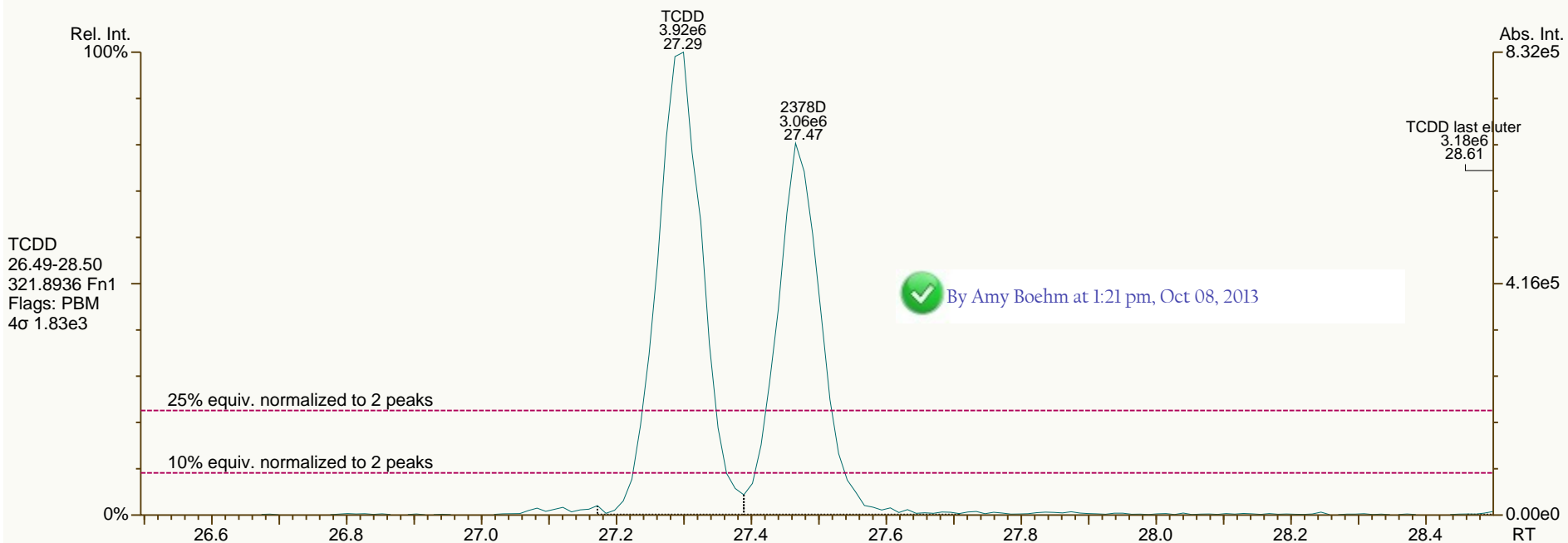
Closest Eluting Isomer	RT	2378 Specific Isomer	RT
1239-TCDD	27.30	2378-TCDD	27.47
2348-TCDF	26.36	2378-TCDF	26.48

Processed: 05 Oct 2013 10:56 Analyst: MC

SGS-AP ID: OPR1_11363_DF
 Instr: AutoSpec-Ultima MM1

Sample ID: 0_11363_OPR001
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 2

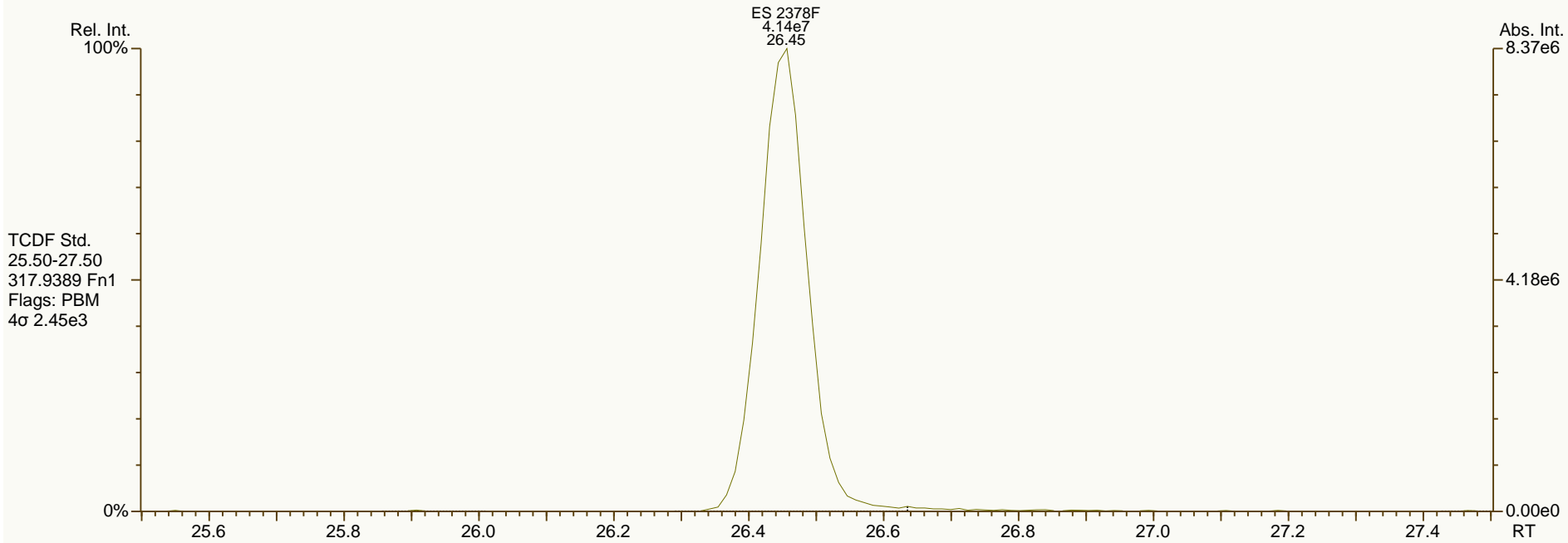
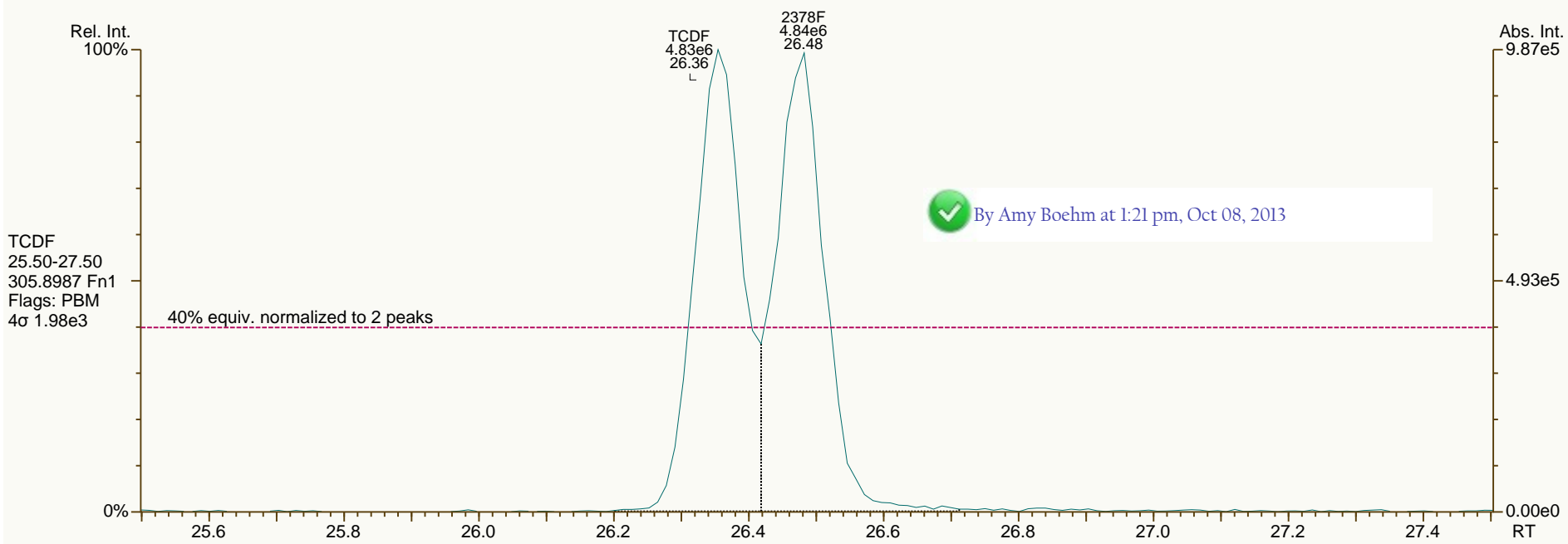
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SGS-AP ID: OPR1_11363_DF
 Instr: AutoSpec-Ultima MM1

Sample ID: 0_11363_OPR001
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 2

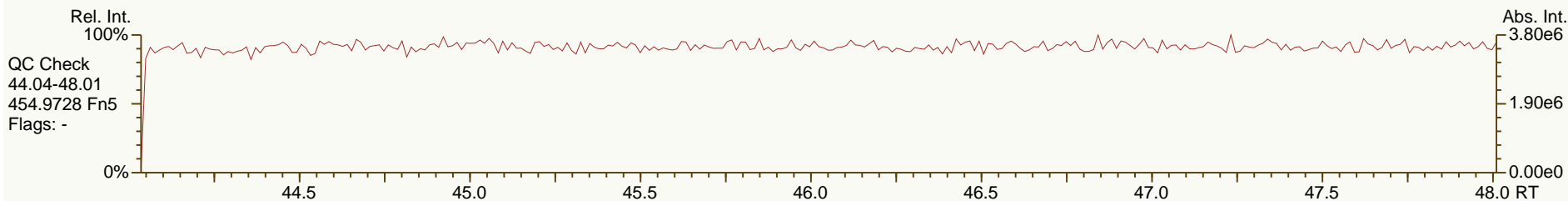
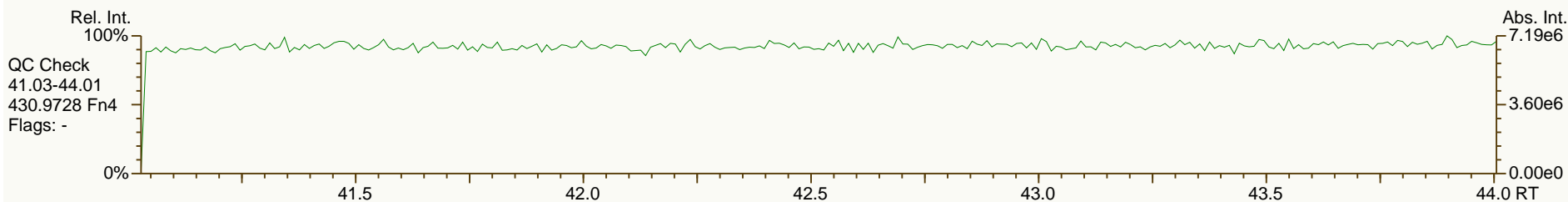
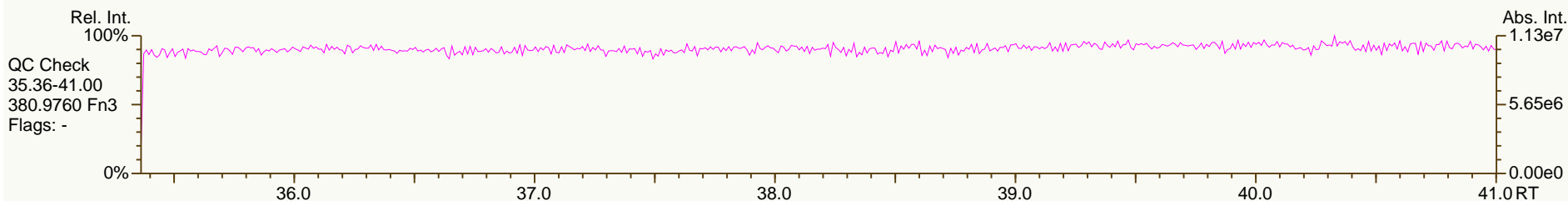
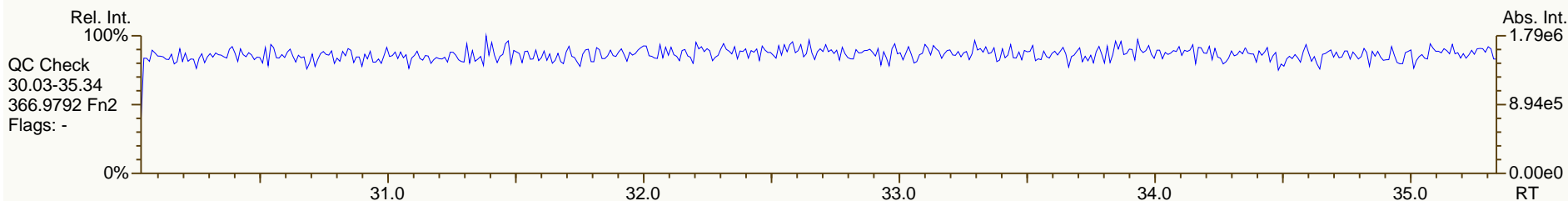
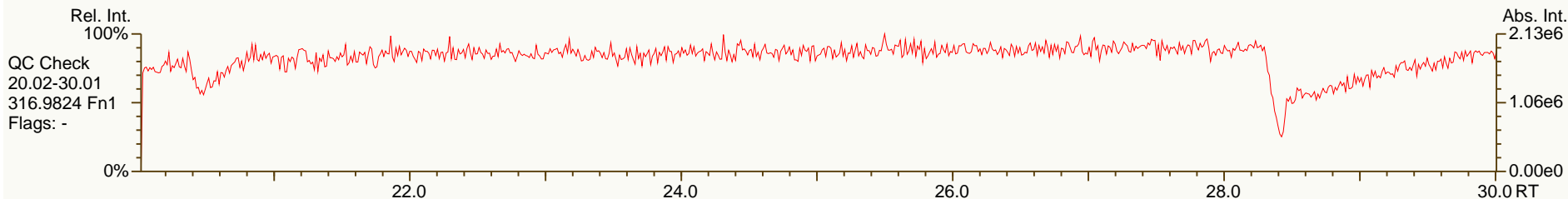
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SGS-AP ID: OPR1_11363_DF
 Instr: AutoSpec-Ultima MM1

Sample ID: 0_11363_OPR001
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 2

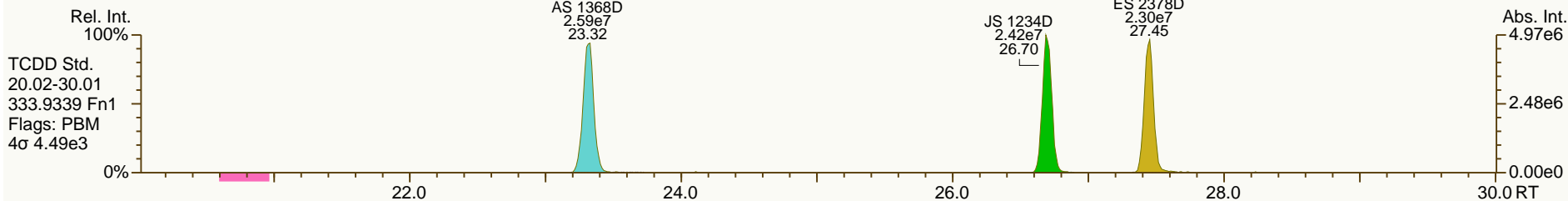
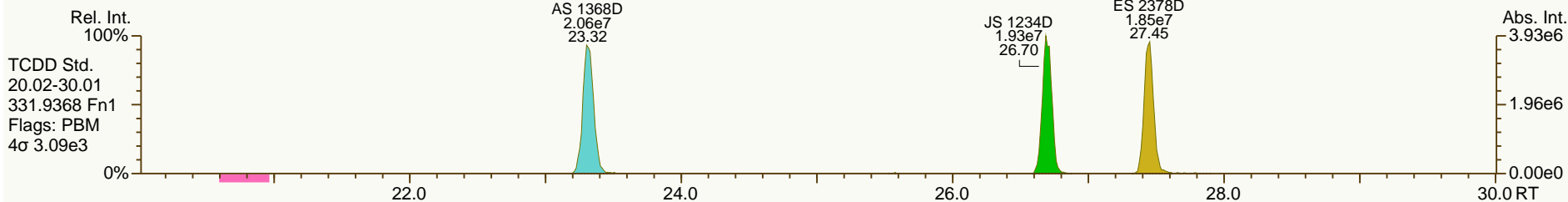
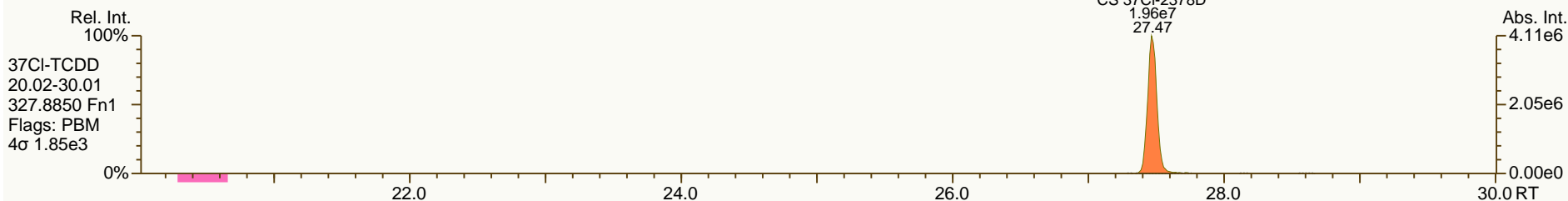
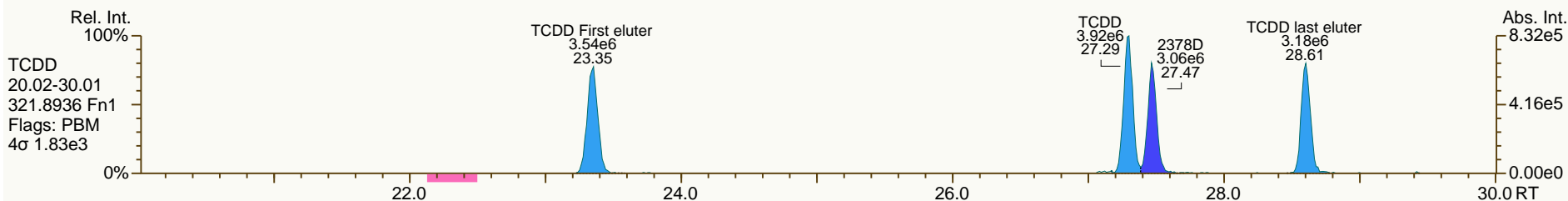
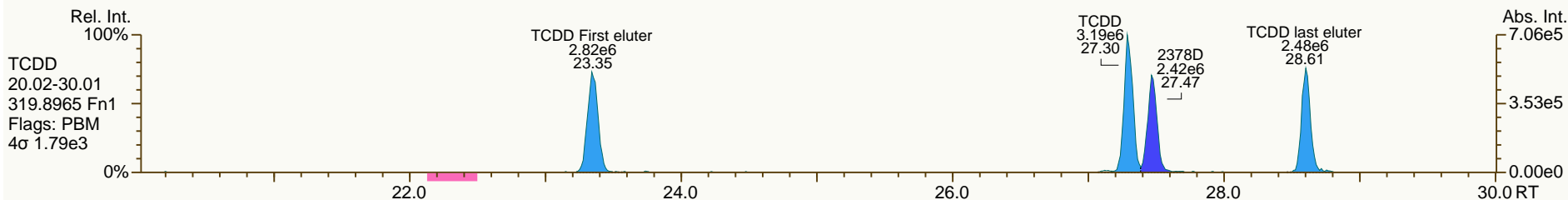
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SGS-AP ID: OPR1_11363_DF
 Instr: AutoSpec-Ultima MM1

Sample ID: 0_11363_OPR001
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 2

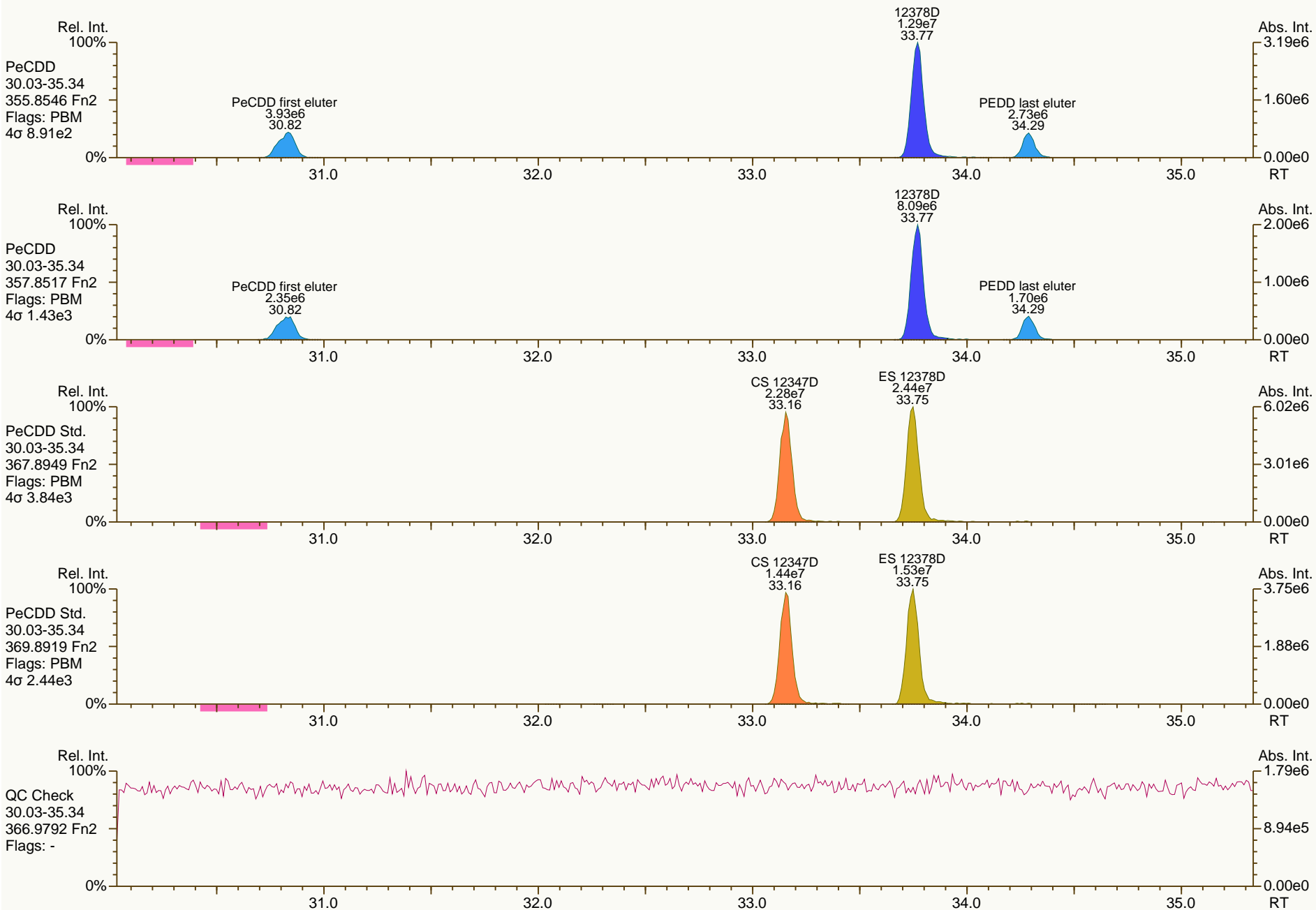
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SGS-AP ID: OPR1_11363_DF
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Sample ID: 0_11363_OPR001
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 2

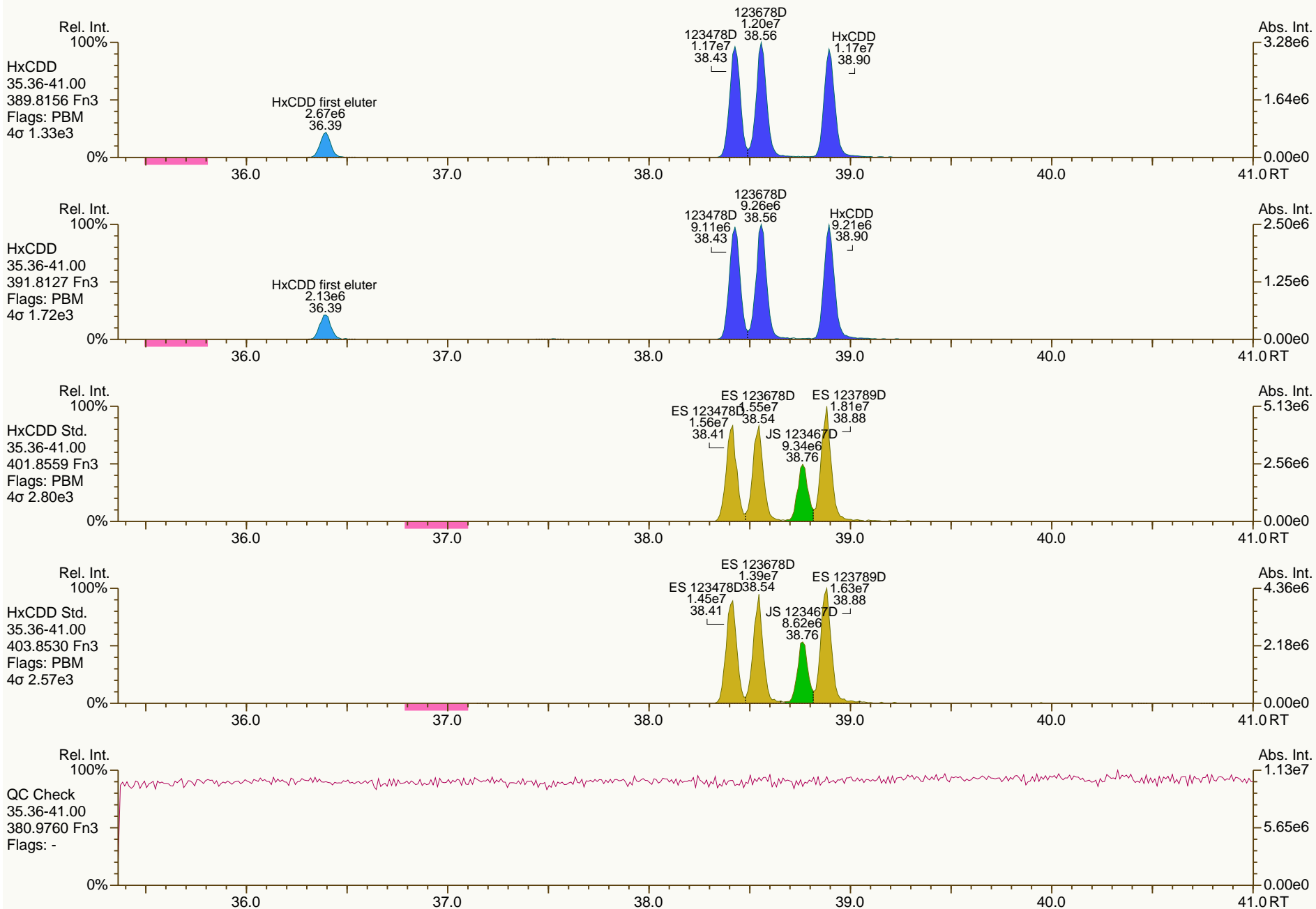
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SGS-AP ID: OPR1_11363_DF
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Sample ID: 0_11363_OPR001
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 2

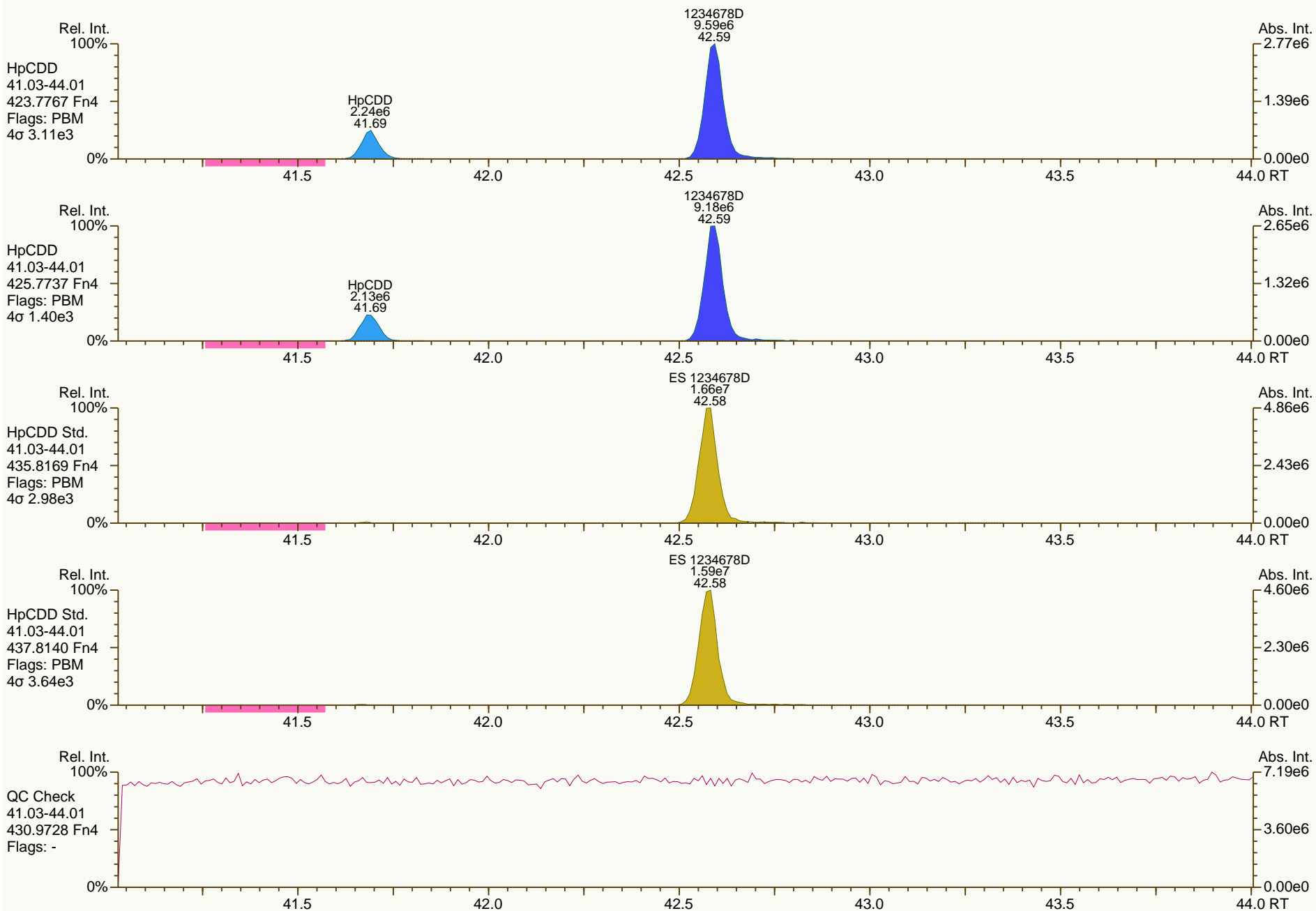
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SGS-AP ID: OPR1_11363_DF
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Sample ID: 0_11363_OPR001
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 2

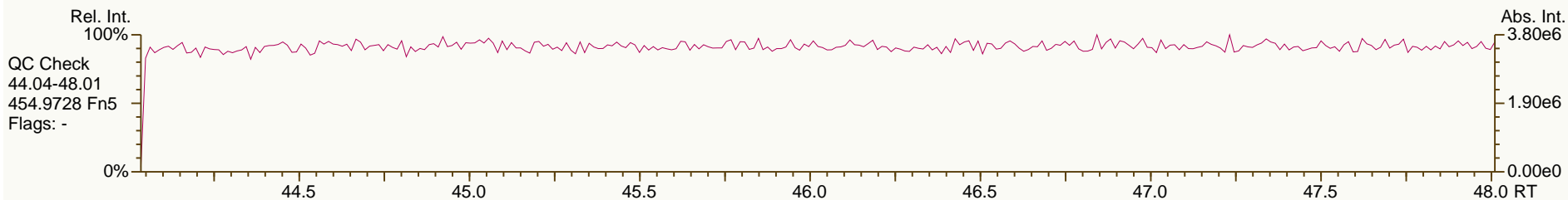
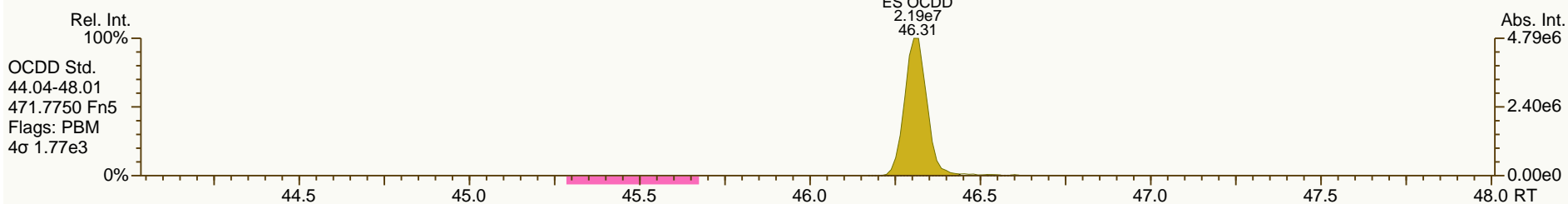
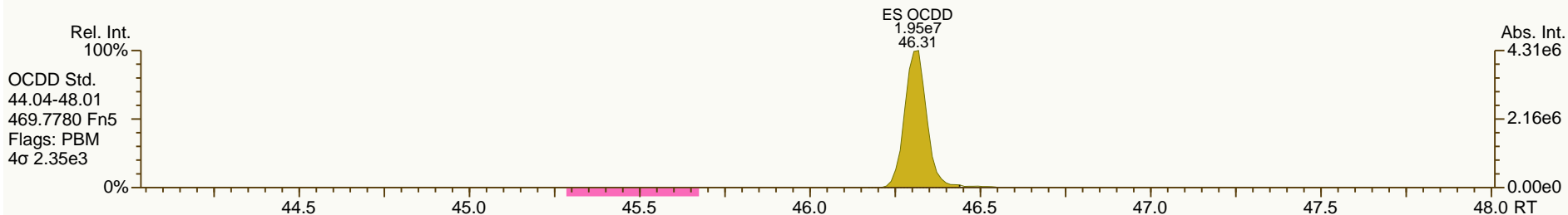
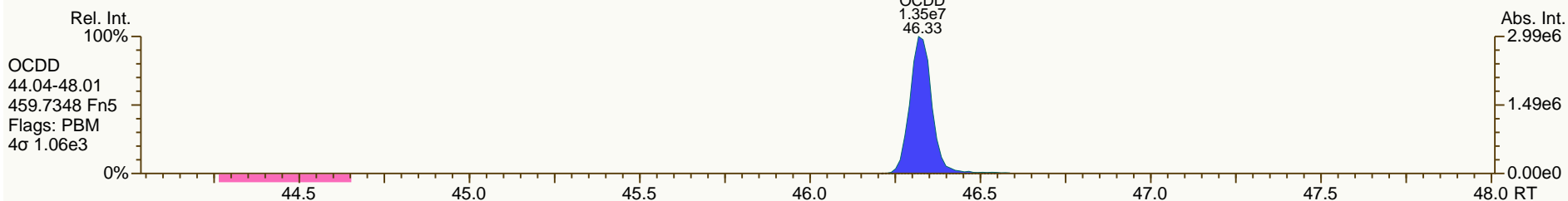
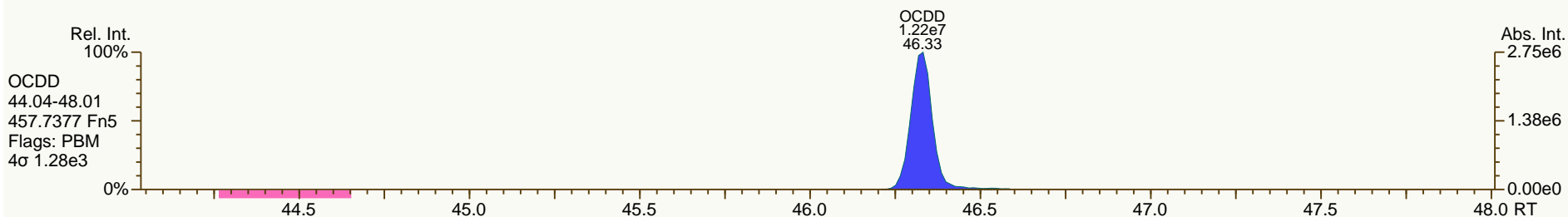
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SGS-AP ID: OPR1_11363_DF
Instr: AutoSpec-Ultima MM1

Sample ID: 0_11363_OPR001
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 2

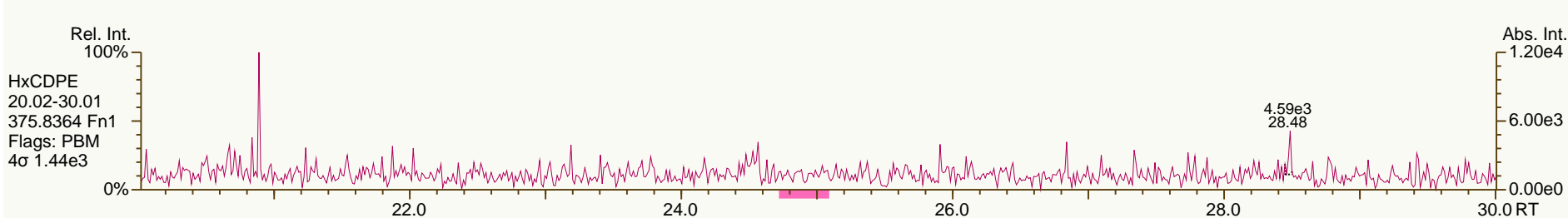
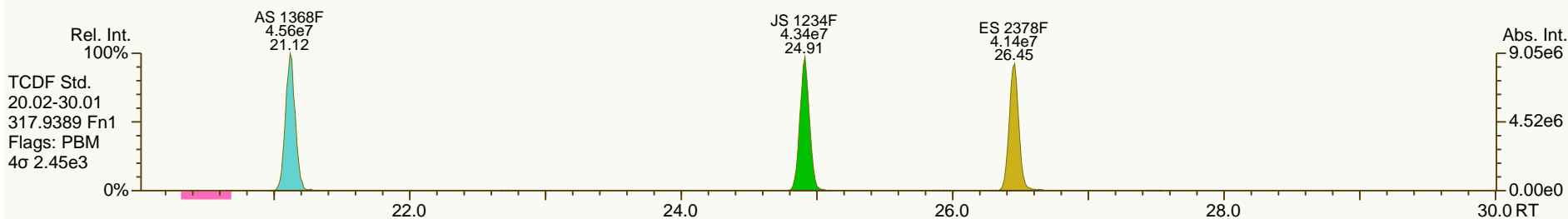
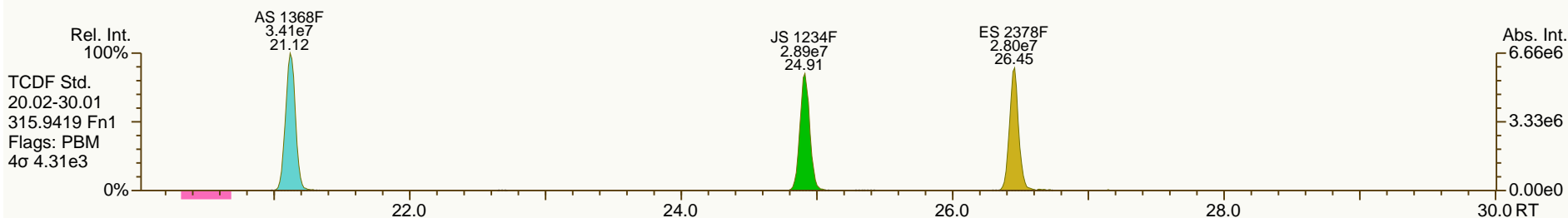
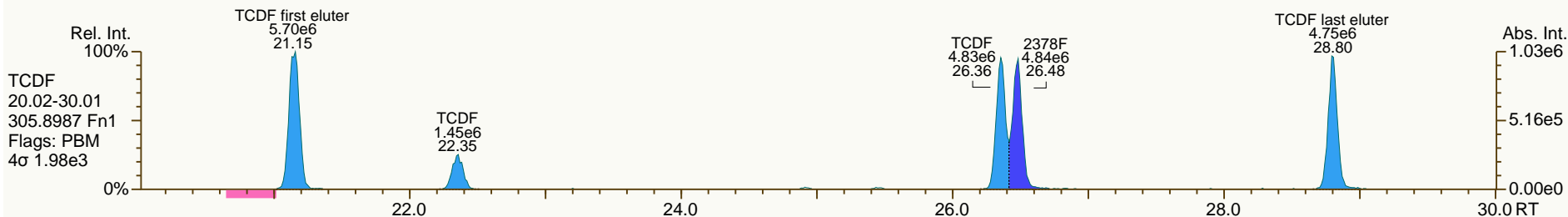
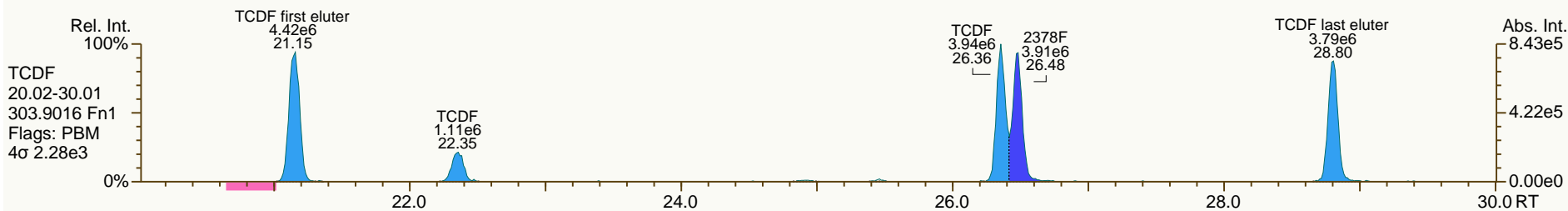
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SGS-AP ID: OPR1_11363_DF
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Sample ID: 0_11363_OPR001
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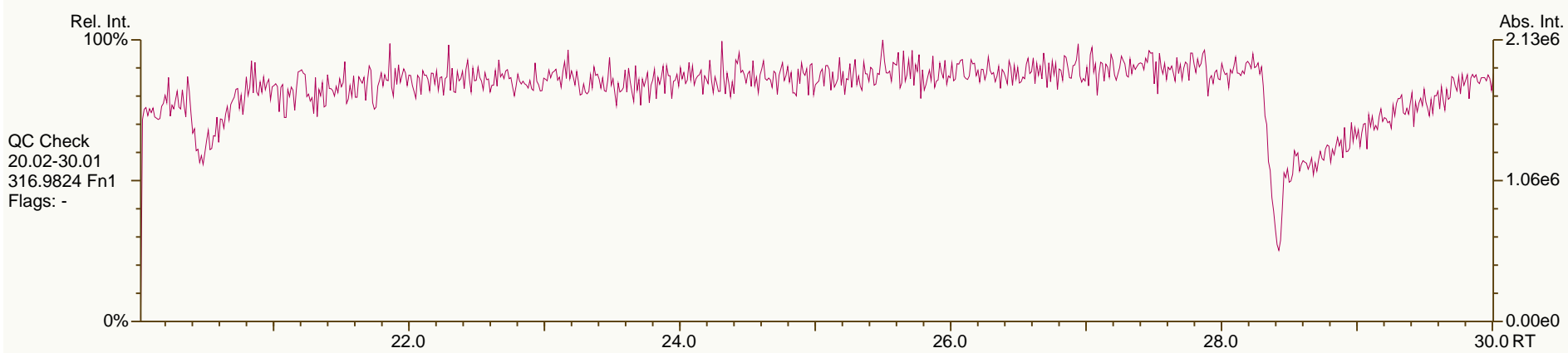
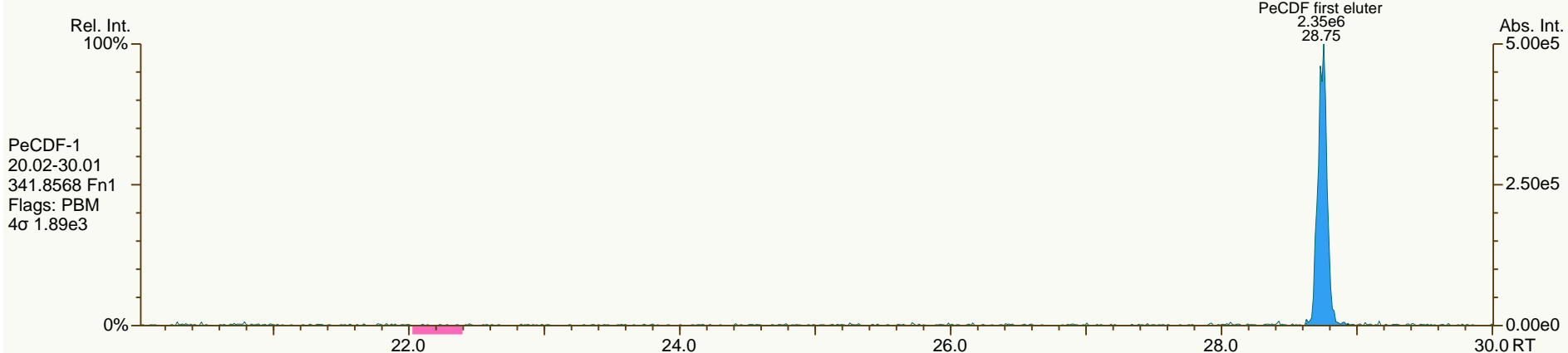
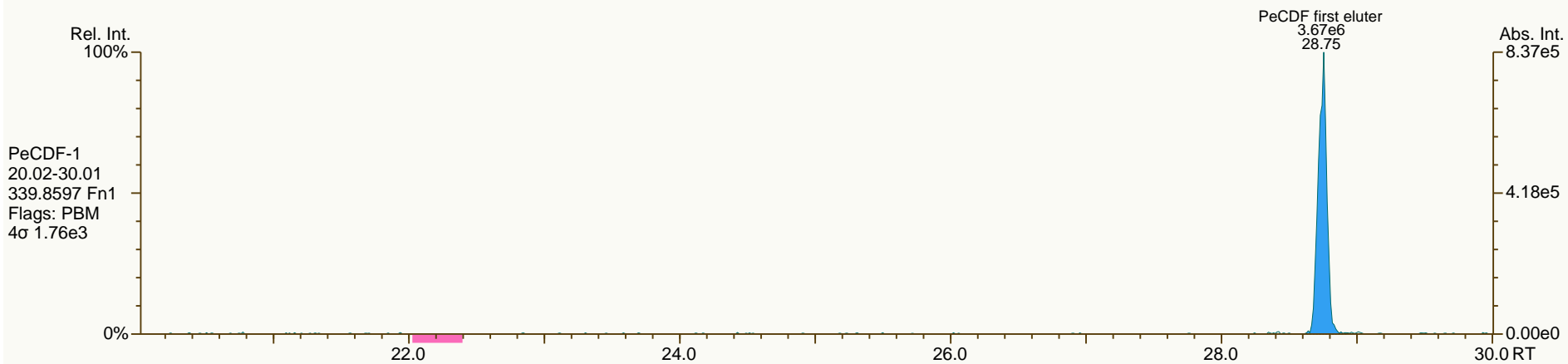
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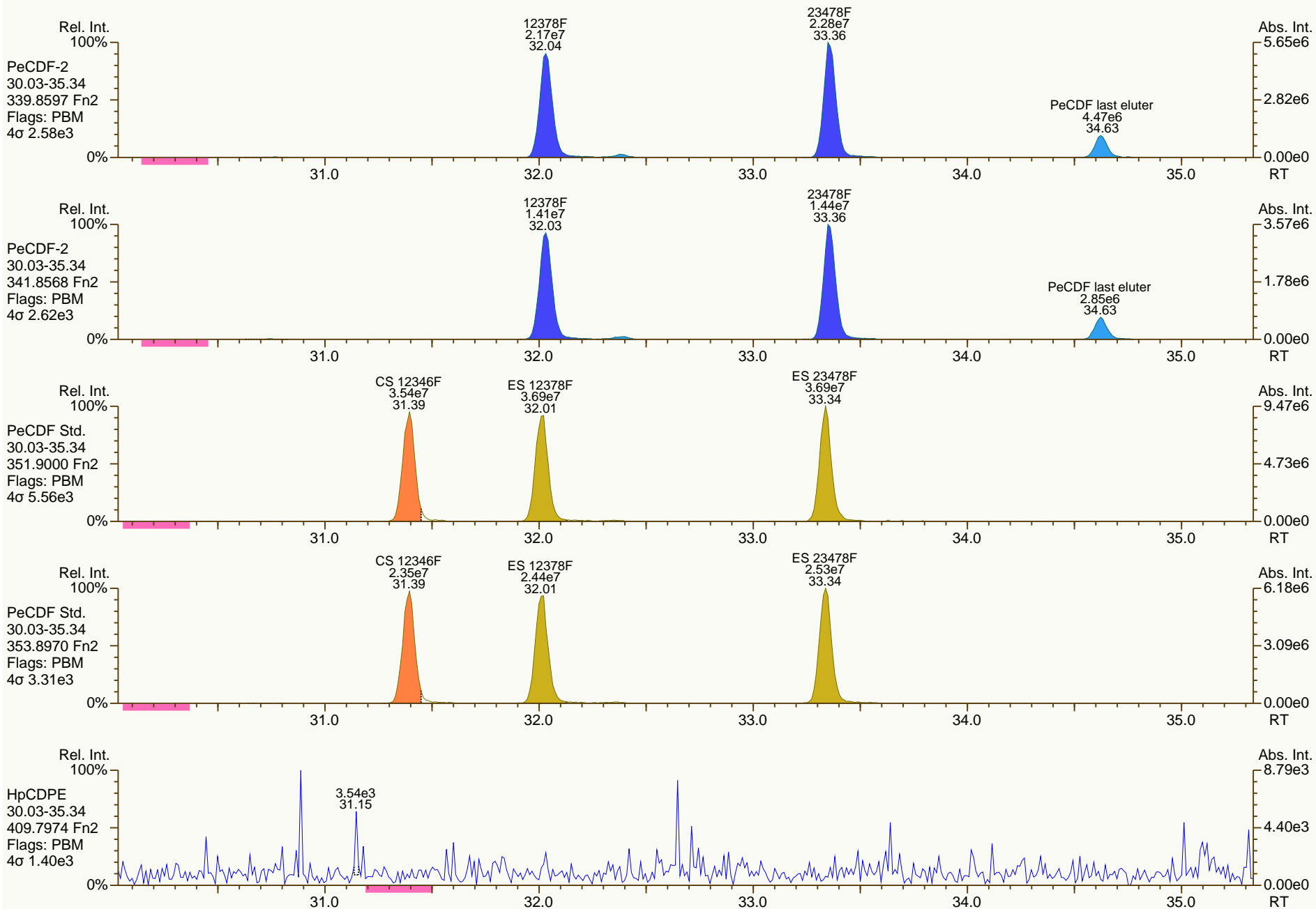
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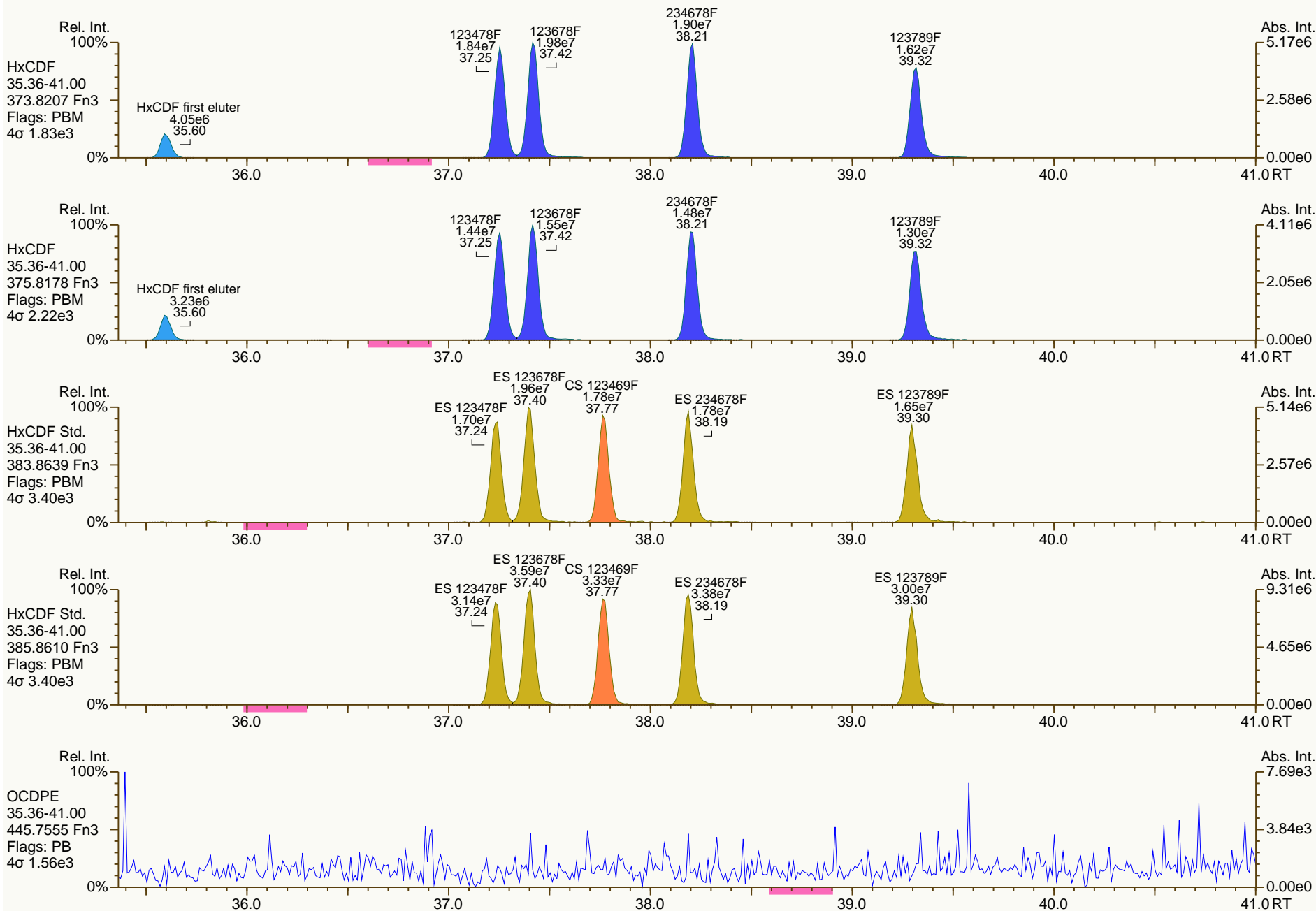
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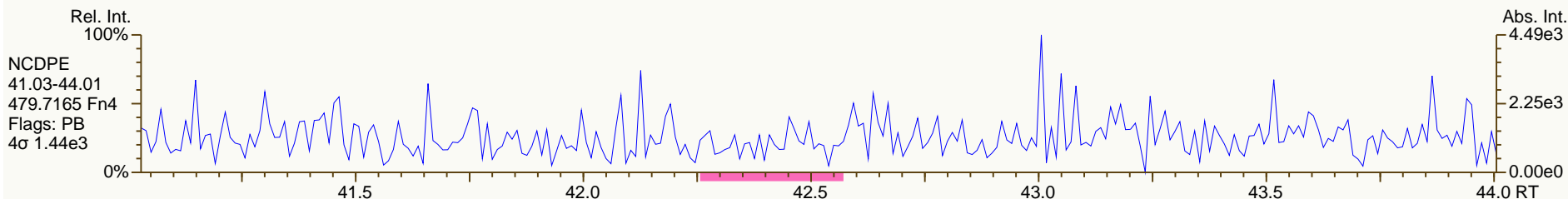
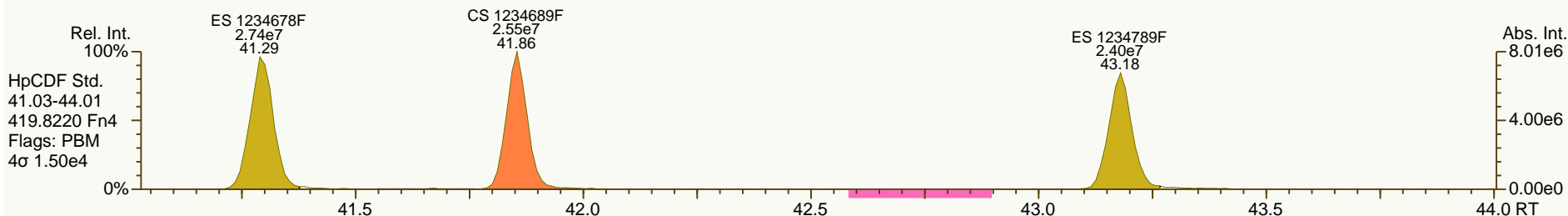
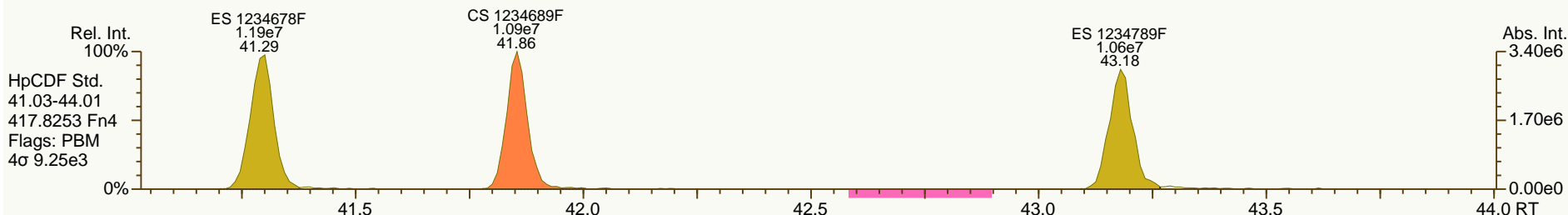
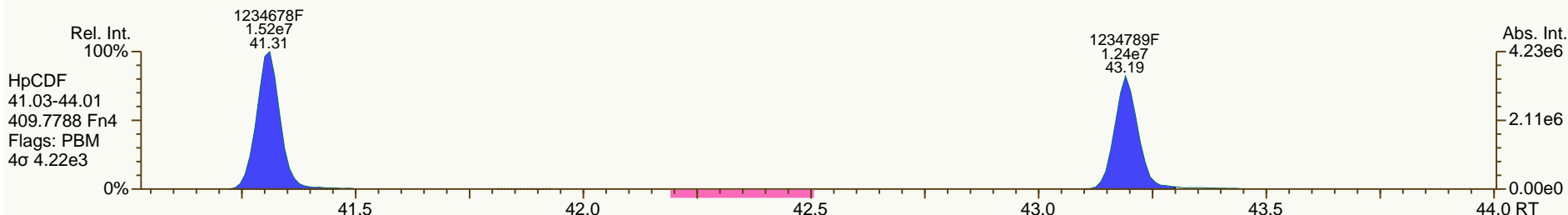
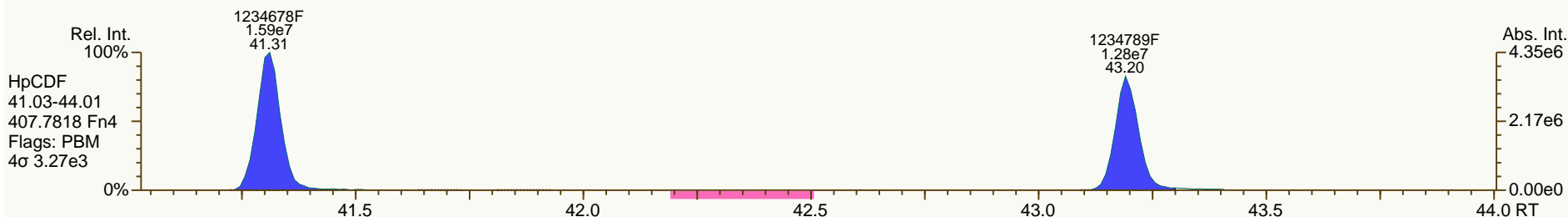
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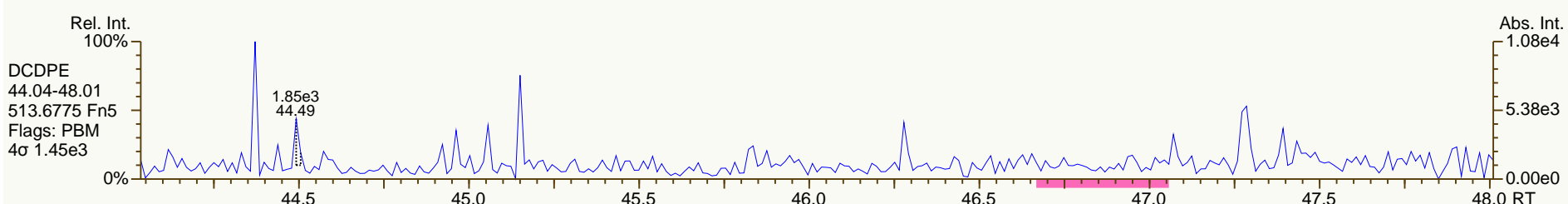
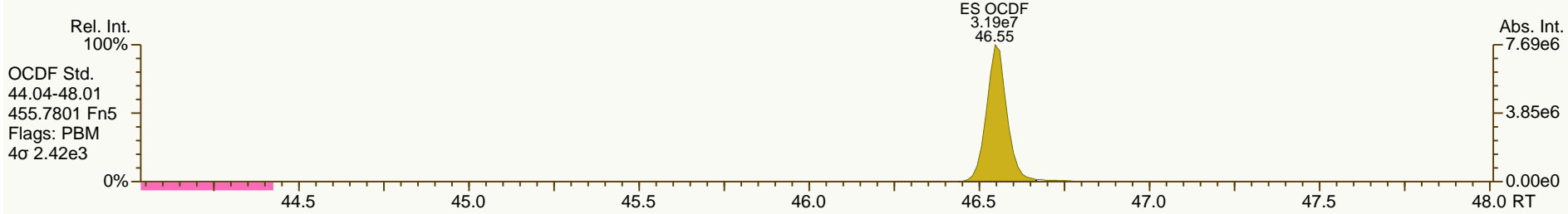
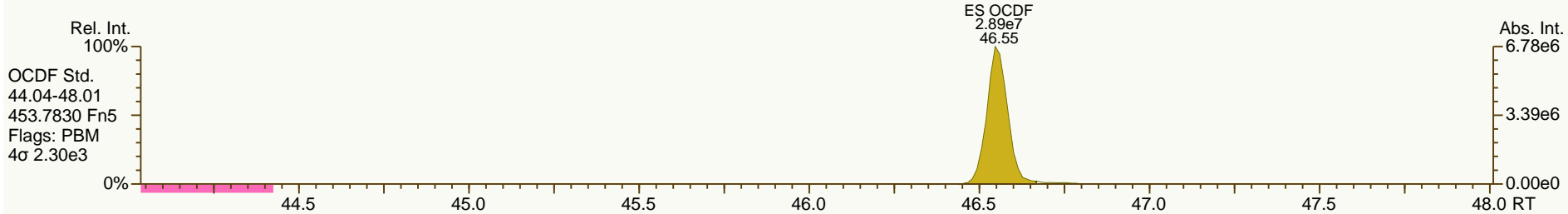
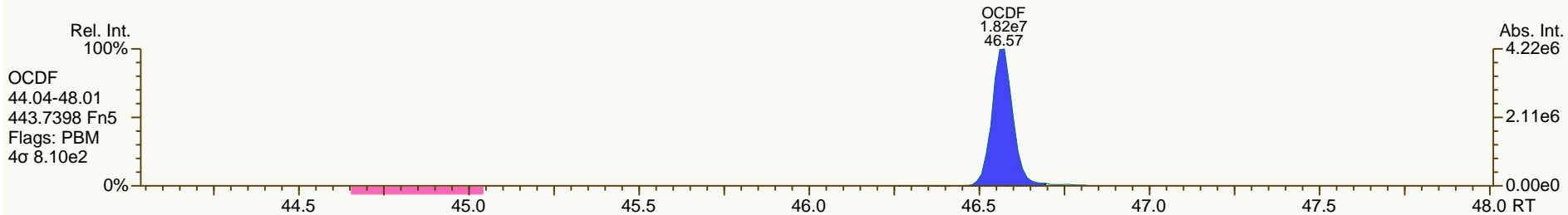
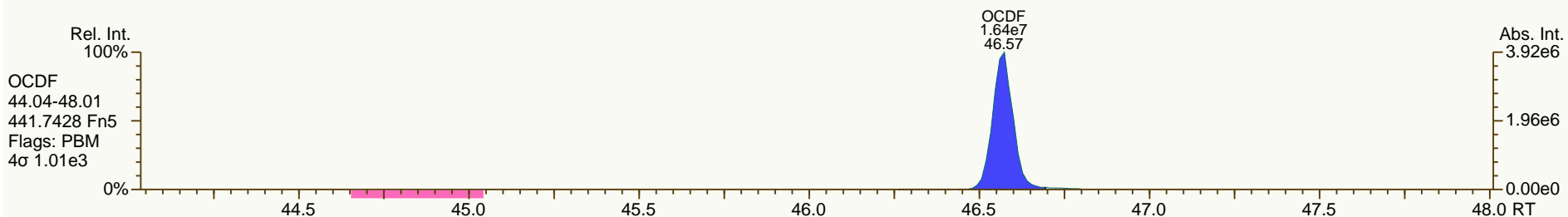
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 Instr: AutoSpec-Ultima MM1

Sample ID: 0_11363_OPR001
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 2

Acq: 04-OCT-2013 14:25:13
 User: MDC Datafile: 131004P1-02





10 October 2013

Delaney Peterson
ANCHOR QEA, LLC
720 Olive Way, Suite 1900
Seattle, WA 98101

Ph.: 206-903-9996
Email: dpeterson@anchorqea.com

Subject: Certificate of Results

Dear Delaney;

Attached to this narrative are the analytical results you requested on the samples submitted for the determination of polychlorinated biphenyl congeners. The insert below summarizes the relevant information pertaining to your project. In particular, QC annotations bring to your attention specific analytical observations and assessments made during the sample handling and data interpretation phases. Results reported relate only to the items tested.

Project Information Summary	When applicable, see QC Annotations for details
Client Project No.	Jeld-Wen
AP Project #	A5959
Analytical Protocol	Method 1668A
No. Samples Submitted	2
No. Samples Analyzed	2
No. Laboratory Method Blanks	1
No. OPRs / Batch CS3	2
No. Outstanding Samples	0
Date Received	30-Apr-2013
Condition Received	good
Temperature upon Receipt (C)	2.5 - 3.9
Extraction within Holding Time	yes
Analysis within Holding Time	yes
Data meet QA/QC Requirements	yes
Exceptions	none
Analytical Difficulties	none

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

**QC Annotations:**

Please see Appendix A & B attached for data qualifier/attribute and lab identifier descriptions which may be contained in the project.

Archived samples from previous SDGs were released from hold and analyzed in this project A5959.

Analytical Perspectives Certification IDs:

SOUTH CAROLINA	99054
ARKANSAS	88-0628
NEW JERSEY-NELAP SECONDARY	NC005
FLORIDA-NELAP PRIMARY	E87608
LOUISIANA	4024
NORTH CAROLINA	37783
WASHINGTON	C2027
NEW YORK	11988
VIRGINIA	460180
MINNESOTA	037-999-448
OREGON	pending
TEXAS	T104704484-10-1
PENNSYLVANIA-NELAP SECONDARY	68-01849

SGS Analytical Perspectives remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact us.

The management and staff of SGS Analytical Perspectives welcomes customer feedback, both positive and negative, as we continually improve our services. Please visit our web site at www.ultratrace.com and click on the 'Leave Your Feedback Here!' link on the Home Page. Thank you for choosing SGS Analytical Perspectives.

Sincerely,

Amy Boehm
 cn=Amy Boehm, o=SGS, ou,
 email=amy.boehm@sgs.com, c=US
 2013.10.10 14:48:25 -04'00'

Amy J. Boehm
 Senior Project Manager



APPENDIX A: DATA QUALIFIERS / DATA ATTRIBUTES	
>	Indicates high recoveries. Shown with the numeric value at the top of the range. ¹
B	The analyte was found in the method blank, at a concentration that was at least 10% of the concentration in the sample.
C	Two or more congeners co-elute. In EDDs C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group are shown with the number of the lowest IUPAC co-eluter.
E	The reported concentration exceeds the calibration range (upper point of the calibration curve).
EMPC	Represents an Estimated Maximum Possible Concentration. EMPC's arise in cases where the signal/noise ratio is not sufficient for peak identification (the determined ion-abundance ratio is outside the allowed theoretical range), or where there is a co-eluting interference.
ETH	Indicates the presence of a diphenyl ether that appears to interfere with the quantitation of a furan. The reported concentration is the maximum.
H/h	If the standard recovery is below the method or SOP specified value "H" is assigned. If the obtained value is less than half the specified value "h" is assigned. ¹
J	Indicates that an analyte has a concentration below the reporting limit (lowest point of the calibration curve).
ND	Indicates a non-detect.
NR	Indicates a value that is not reportable.
PR	Due to interference, the associated congener is poorly resolved.
QI	Indicates the presence of a quantitative interference.
SI	Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates. ¹
U	The analyte was not detected. The estimated detection limit (EDL) may be reported for this analyte.
V	The labeled standard recovery was found to be outside of the method control limits.
X	Indicates results reported from reinjection, refractionation, or repeat analyses.
APPENDIX B: LAB ID IDENTIFIERS	
AR	Indicates use of the archived portion of the sample extract.
CU	Indicates a sample that required additional clean-up prior to MS injection/processing.
D	Indicates a dilution of the sample extract. The number that follows the "D" indicates the dilution factor.
DE	Indicates a dilution performed with the addition of ES (extraction standard) solution.
DUP	Designation for a duplicate sample.
MS	Designation for a matrix spike.
MSD	Designation for a matrix spike duplicate.
RJ	Indicates a reinjection of the sample extract.
S	Indicates a sample split. The number that follows the "S" indicates the split factor.

¹Denotes data qualifiers/attributes whose use will be phased out over time

Sample ID: JW-EA09-SC36-B-130426**Method 1668A**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Solid	Project No.:	A5959	Date Received:	30-Apr-2013
Project ID:	Jeld-Wen	Weight/Volume:	10.05 g	Sample ID:	A5959_11364_PCB_001	Date Extracted:	27-Sep-2013
Date Collected:	26-Apr-2013	% Solids	78.3 %	QC Batch No.:	11364	Date Analyzed:	03-Oct-2013
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/g	pg/g	pg/g				%
PCB-77 33'44'-TeCB	ND	0.17			ES PCB-1	56.2	
PCB-81 344'5'-TeCB	ND	0.165			ES PCB-3	68.7	
PCB-105 233'44'-PeCB	0.322			J	ES PCB-4	74.4	
PCB-114 2344'5'-PeCB	ND	0.144			ES PCB-15	91.6	
PCB-118 23'44'5'-PeCB	0.795			J B	ES PCB-19	82.1	
PCB-123 23'44'5'-PeCB	ND	0.144			ES PCB-37	75.4	
PCB-126 33'44'5'-PeCB	ND	0.124			ES PCB-54	83.5	
PCB-156/157 233'44'5'/233'44'5'-HxCB	ND	0.239		C	ES PCB-77	92.9	
PCB-167 23'44'55'-HxCB	ND	0.157			ES PCB-81	97	
PCB-169 33'44'55'-HxCB	ND	0.249			ES PCB-104	91.4	
PCB-189 233'44'55'-HpCB	ND	0.142			ES PCB-105	93.8	
					ES PCB-114	92.3	
TEQs (WHO M/H)					ES PCB-118	92.9	
					ES PCB-123	93.9	
ND = 0	0.0000335		0.0000335		ES PCB-126	83.4	
ND = 0.5 x DL	0.01		0.01		ES PCB-153	95.7	
ND = DL	0.02		0.02		ES PCB-155	92.5	
					ES PCB-156/157	93.2	
Totals					ES PCB-167	93.8	
Mono-CBs	3.6				ES PCB-169	61.9	
Di-CBs	2.84				ES PCB-170	103	
Tri-CBs	0.966				ES PCB-180	105	
Tetra-CBs	11.2		11.5		ES PCB-188	95.5	
Penta-CBs	3.4		3.92		ES PCB-189	95.2	
Hexa-CBs	7.29		7.87		ES PCB-202	99.8	
Hepta-CBs	4.78		6.48		ES PCB-205	88.1	
Octa-CBs	1.29		1.75		ES PCB-206	83.7	
Nona-CBs	ND	0.431			ES PCB-208	97.3	
Deca-CB	ND	0.184			ES PCB-209	79.9	
					CS PCB-28	102	
Total PCB (Mono-Deca)	35.4		38.9		CS PCB-111	95.9	
					CS PCB-178	102	

Checkcode: 854-086-HKF


SGS AP PCB 2013 Rev. 2.1

Report Created: 09-Oct-2013 17:23 Analyst: CW



2714 Exchange Drive T: 910 794-1613
 Wilmington F: 910 794-3919
 North Carolina 28405 www.us.sgs.com
 USA

Sample ID: JW-EA09-SC36-B-130426 Method 1668A

Client Data			Sample Data			Laboratory Data														
Name: ANCHOR QEA			Matrix: Solid			Project No.: A5959			Date Received: 30-Apr-2013											
Project ID: Jeld-Wen			Weight/Volume: 10.05 g			Sample ID: A5959_11364_PCB_001			Date Extracted: 27-Sep-2013											
Date Collected: 26-Apr-2013			% Solids: 78.3 %			QC Batch No.: 11364			Date Analyzed: 03-Oct-2013											
			Units: pg/g			Checkcode: 854-086-HKF			Time Analyzed: 04:49:48											
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers									
PCB-1	0.709	J B	PCB-19	(0.328)		PCB-54	(0.146)		PCB-72	(0.159)										
PCB-2	1.92	B	PCB-30/18	(0.249)	C	PCB-50/53	(0.205)	C	PCB-68	0.806	J B									
PCB-3	0.976	J B	PCB-17	(0.29)		PCB-45	(0.227)		PCB-57	(0.165)										
			PCB-27	(0.217)		PCB-51	1.69	B	PCB-58	(0.158)										
Conc.	3.6		PCB-24	(0.225)		PCB-46	(0.249)		PCB-67	(0.152)										
EMPC	3.6		PCB-16	(0.368)		PCB-52	0.591	J B	PCB-63	(0.149)										
			PCB-32	(0.202)		PCB-73	(0.162)		PCB-61/70/74/76	(0.162)	C									
Di	Conc.	Qualifiers	PCB-34	(0.357)		PCB-43	(0.24)		PCB-66	(0.171)										
PCB-4	(0.565)		PCB-23	(0.347)		PCB-69/49	[0.301]	J B EMPC C	PCB-55	0.334	J									
PCB-10	(0.379)		PCB-26/29	(0.349)	C	PCB-48	(0.205)		PCB-56	(0.174)										
PCB-9	(0.311)		PCB-25	(0.342)		PCB-44/47/65	7.81	B C	PCB-60	(0.165)										
PCB-7	(0.264)		PCB-31	0.429	J	PCB-59/62/75	(0.154)	C	PCB-80	(0.144)										
PCB-6	(0.284)		PCB-28/20	0.537	J B C	PCB-42	(0.229)		PCB-79	(0.141)										
PCB-5	(0.289)		PCB-21/33	(0.338)	C	PCB-41	(0.247)		PCB-78	(0.172)										
PCB-8	(0.278)		PCB-22	(0.367)		PCB-71/40	(0.205)	C	PCB-81	(0.165)										
PCB-14	(0.242)		PCB-36	(0.338)		PCB-64	(0.145)		PCB-77	(0.17)										
PCB-11	2.84	B	PCB-39	(0.326)																
PCB-13/12	(0.276)	C	PCB-38	(0.36)																
PCB-15	(0.258)		PCB-35	(0.368)																
			PCB-37	(0.355)																
Conc.	2.84		Conc.	0.966					Conc.	11.2										
EMPC	2.84		EMPC	0.966					EMPC	11.5										
 <p style="margin-top: 10px;">2714 Exchange Drive Wilmington, NC 28405, USA</p> <p style="text-align: right; margin-top: 10px;">Tel: +1 910 794-1613 Fax: +1 910 794-3919 www.us.sgs.com</p>						Totals			Conc.			EMPC								
												Mono-Tri			7.4			7.4		
												Tetra-Hexa			21.9			23.3		
												Hepta-Deca			6.08			8.23		
												Mono-Deca			35.4			38.9		

Sample ID: JW-EA09-SC36-B-130426						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.1)		PCB-108/119/86/97/125/87	[0.517]	J EMPC C	PCB-155	(0.124)		PCB-165	(0.157)	
PCB-96	(0.121)		PCB-117	(0.16)		PCB-152	(0.133)		PCB-146	0.329	J
PCB-103	(0.18)		PCB-116/85	(0.163)	C	PCB-150	(0.134)		PCB-161	(0.14)	
PCB-94	(0.204)		PCB-110	0.937	J B	PCB-136	0.375	J	PCB-153/168	1.81	J B C
PCB-95	(0.192)		PCB-115	(0.129)		PCB-145	(0.142)		PCB-141	0.48	J
PCB-100/93	(0.185)	C	PCB-82	(0.229)		PCB-148	(0.181)		PCB-130	(0.216)	
PCB-102	(0.188)		PCB-111	(0.138)		PCB-151/135	0.723	J C	PCB-137	(0.187)	
PCB-98	(0.191)		PCB-120	(0.137)		PCB-154	(0.168)		PCB-164	0.183	J
PCB-88	(0.208)		PCB-107/124	(0.151)	C	PCB-144	(0.186)		PCB-163/138/129	1.96	J B C
PCB-91	(0.172)		PCB-109	(0.144)		PCB-147/149	1.43	J B C	PCB-160	(0.141)	
PCB-84	(0.222)		PCB-123	(0.144)		PCB-134	(0.237)		PCB-158	(0.138)	
PCB-89	(0.209)		PCB-106	(0.154)		PCB-143	(0.182)		PCB-128/166	(0.194)	C
PCB-121	(0.14)		PCB-118	0.795	J B	PCB-139/140	(0.179)	C	PCB-159	(0.162)	
PCB-92	(0.198)		PCB-122	(0.161)		PCB-131	(0.206)		PCB-162	(0.16)	
PCB-113/90/101	0.922	J B C	PCB-114	(0.144)		PCB-142	(0.204)		PCB-167	(0.157)	
PCB-83	(0.219)		PCB-105	0.322	J	PCB-132	[0.574]	J EMPC	PCB-156/157	(0.239)	C
PCB-99	0.422	J	PCB-127	(0.142)		PCB-133	(0.189)		PCB-169	(0.249)	
PCB-112	(0.147)		PCB-126	(0.124)							
			Conc.	3.4					Conc.	7.29	
			EMPC	3.92					EMPC	7.87	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.085)		PCB-174	[0.892]	J B EMPC	PCB-202	(0.138)		PCB-208	(0.319)	
PCB-179	0.397	J	PCB-177	0.507	J	PCB-201	(0.124)		PCB-207	(0.307)	
PCB-184	(0.0941)		PCB-181	(0.184)		PCB-204	(0.132)		PCB-206	(0.544)	
PCB-176	(0.0853)		PCB-171/173	(0.209)	C	PCB-197	(0.115)				
PCB-186	(0.0906)		PCB-172	(0.201)		PCB-200	(0.129)		Conc.	0	
PCB-178	[0.125]	J EMPC	PCB-192	(0.157)		PCB-198/199	0.441	J C	EMPC	0	
PCB-175	(0.191)		PCB-180/193	1.99	B C	PCB-196	0.271	J			
PCB-187	1.12	B	PCB-191	(0.15)		PCB-203	[0.221]	J EMPC	Deca	Conc.	Qualifiers
PCB-182	(0.177)		PCB-170	0.77	J	PCB-195	[0.234]	J EMPC	PCB-209	(0.184)	
PCB-183	[0.467]	J EMPC	PCB-190	[0.212]	J EMPC	PCB-194	0.581	J			
PCB-185	(0.178)		PCB-189	(0.142)		PCB-205	(0.179)				
			Conc.	4.78		Conc.	1.29				
			EMPC	6.48		EMPC	1.75				

Sample ID: JW-EA09-SC36-C-130426**Method 1668A**

Client Data		Sample Data		Laboratory Data			
Name:	ANCHOR QEA	Matrix:	Solid	Project No.:	A5959	Date Received:	30-Apr-2013
Project ID:	Jeld-Wen	Weight/Volume:	10.00 g	Sample ID:	A5959_11364_PCB_002	Date Extracted:	27-Sep-2013
Date Collected:	26-Apr-2013	% Solids	79.9 %	QC Batch No.:	11364	Date Analyzed:	03-Oct-2013
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/g	pg/g	pg/g				%
PCB-77 33'44'-TeCB	ND	0.0858			ES PCB-1	46.3	
PCB-81 344'5'-TeCB	ND	0.0858			ES PCB-3	58.5	
PCB-105 233'44'-PeCB	EMPC		0.286	J	ES PCB-4	67.7	
PCB-114 2344'5'-PeCB	ND	0.0698			ES PCB-15	88.9	
PCB-118 23'44'5'-PeCB	0.71			J B	ES PCB-19	78.5	
PCB-123 23'44'5'-PeCB	ND	0.0708			ES PCB-37	77.8	
PCB-126 33'44'5'-PeCB	ND	0.0601			ES PCB-54	81.8	
PCB-156/157 233'44'5'/233'44'5'-HxCB	0.133			J C	ES PCB-77	91.9	
PCB-167 23'44'55'-HxCB	ND	0.0733			ES PCB-81	96.3	
PCB-169 33'44'55'-HxCB	ND	0.117			ES PCB-104	91.9	
PCB-189 233'44'55'-HpCB	ND	0.0681			ES PCB-105	96.7	
					ES PCB-114	95.2	
TEQs (WHO M/H)					ES PCB-118	94.6	
					ES PCB-123	97	
ND = 0	0.0000253		0.0000339		ES PCB-126	87.4	
ND = 0.5 x DL	0.00481		0.00482		ES PCB-153	89.5	
ND = DL	0.0096		0.00961		ES PCB-155	88.3	
					ES PCB-156/157	89.7	
Totals					ES PCB-167	88.3	
Mono-CBs	2.11				ES PCB-169	59.6	
Di-CBs	4.26				ES PCB-170	99	
Tri-CBs	1.81		2.48		ES PCB-180	98	
Tetra-CBs	9.38		9.6		ES PCB-188	95.8	
Penta-CBs	4.55		5.17		ES PCB-189	94.3	
Hexa-CBs	7.37		7.49		ES PCB-202	92.4	
Hepta-CBs	3.1		4.41		ES PCB-205	89.2	
Octa-CBs	0.303				ES PCB-206	83.7	
Nona-CBs	ND	0.2			ES PCB-208	93.7	
Deca-CB	EMPC		0.099	J	ES PCB-209	81.3	
					CS PCB-28	101	
Total PCB (Mono-Deca)	32.9		35.9		CS PCB-111	99.3	
					CS PCB-178	102	


Checkcode: 179-096-QGF

SGS AP PCB 2013 Rev. 2.1

Report Created: 09-Oct-2013 17:23 Analyst: CW



2714 Exchange Drive T: 910 794-1613
 Wilmington F: 910 794-3919
 North Carolina 28405 www.us.sgs.com
 USA

Sample ID: JW-EA09-SC36-C-130426						Method 1668A					
Client Data			Sample Data			Laboratory Data					
Name: ANCHOR QEA			Matrix: Solid			Project No.: A5959			Date Received: 30-Apr-2013		
Project ID: Jeld-Wen			Weight/Volume: 10.00 g			Sample ID: A5959_11364_PCB_002			Date Extracted: 27-Sep-2013		
Date Collected: 26-Apr-2013			% Solids: 79.9 %			QC Batch No.: 11364			Date Analyzed: 03-Oct-2013		
			Units: pg/g			Checkcode: 179-096-QGF			Time Analyzed: 05:45:48		
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers
PCB-1	0.502	J B	PCB-19	(0.268)		PCB-54	(0.0805)		PCB-72	(0.0827)	
PCB-2	1.04	B	PCB-30/18	0.467	J C	PCB-50/53	(0.111)	C	PCB-68	0.679	J B
PCB-3	0.569	J B	PCB-17	(0.237)		PCB-45	(0.122)		PCB-57	(0.0858)	
			PCB-27	(0.177)		PCB-51	0.848	J B	PCB-58	(0.0821)	
Conc.	2.11		PCB-24	(0.183)		PCB-46	(0.134)		PCB-67	(0.0788)	
EMPC	2.11		PCB-16	(0.301)		PCB-52	0.744	J B	PCB-63	(0.0773)	
			PCB-32	(0.165)		PCB-73	(0.0873)		PCB-61/70/74/76	1.03	J B C
Di	Conc.	Qualifiers	PCB-34	(0.23)		PCB-43	(0.129)		PCB-66	0.644	J
PCB-4	0.263	J	PCB-23	(0.223)		PCB-69/49	0.4	J B C	PCB-55	(0.0863)	
PCB-10	(0.115)		PCB-26/29	(0.224)	C	PCB-48	(0.111)		PCB-56	0.297	J
PCB-9	(0.201)		PCB-25	(0.22)		PCB-44/47/65	4.36	B C	PCB-60	0.153	J
PCB-7	(0.17)		PCB-31	[0.668]	J EMPC	PCB-59/62/75	(0.083)	C	PCB-80	(0.0747)	
PCB-6	(0.184)		PCB-28/20	0.829	J B C	PCB-42	(0.123)		PCB-79	(0.073)	
PCB-5	(0.186)		PCB-21/33	0.515	J C	PCB-41	(0.133)		PCB-78	(0.0893)	
PCB-8	0.352	J	PCB-22	(0.236)		PCB-71/40	[0.217]	J EMPC C	PCB-81	(0.0858)	
PCB-14	(0.156)		PCB-36	(0.217)		PCB-64	0.223	J	PCB-77	(0.0858)	
PCB-11	3.39	B	PCB-39	(0.209)							
PCB-13/12	(0.178)	C	PCB-38	(0.231)							
PCB-15	0.253	J	PCB-35	(0.236)							
			PCB-37	(0.228)							
Conc.	4.26		Conc.	1.81					Conc.	9.38	
EMPC	4.26		EMPC	2.48					EMPC	9.6	
 <p>2714 Exchange Drive Wilmington, NC 28405, USA</p> <p>Tel: +1 910 794-1613 Fax: +1 910 794-3919 www.us.sgs.com</p>						Totals		Conc.		EMPC	
						Mono-Tri		8.18		8.85	
						Tetra-Hexa		21.3		22.3	
						Hepta-Deca		3.4		4.82	
						Mono-Deca		32.9		35.9	

Sample ID: JW-EA09-SC36-C-130426						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.0572)		PCB-108/119/86/97/125/87	0.557	J C	PCB-155	(0.0563)		PCB-165	(0.0754)	
PCB-96	(0.069)		PCB-117	(0.0789)		PCB-152	(0.0605)		PCB-146	0.258	J
PCB-103	(0.0886)		PCB-116/85	0.142	J C	PCB-150	(0.0606)		PCB-161	(0.0673)	
PCB-94	(0.1)		PCB-110	1.04	B	PCB-136	0.304	J	PCB-153/168	1.54	J B C
PCB-95	0.708	J B	PCB-115	(0.0635)		PCB-145	(0.0643)		PCB-141	0.476	J
PCB-100/93	(0.0909)	C	PCB-82	0.146	J	PCB-148	(0.0873)		PCB-130	(0.104)	
PCB-102	(0.0924)		PCB-111	(0.068)		PCB-151/135	0.694	J C	PCB-137	(0.0901)	
PCB-98	(0.0941)		PCB-120	(0.0674)		PCB-154	(0.0808)		PCB-164	(0.0689)	
PCB-88	(0.102)		PCB-107/124	(0.0743)	C	PCB-144	[0.113]	J EMPC	PCB-163/138/129	1.7	J B C
PCB-91	(0.0847)		PCB-109	(0.0709)		PCB-147/149	1.57	J B C	PCB-160	(0.068)	
PCB-84	[0.207]	J EMPC	PCB-123	(0.0708)		PCB-134	(0.114)		PCB-158	0.172	J
PCB-89	(0.103)		PCB-106	(0.0756)		PCB-143	(0.0878)		PCB-128/166	(0.0909)	C
PCB-121	(0.069)		PCB-118	0.71	J B	PCB-139/140	(0.086)	C	PCB-159	(0.0759)	
PCB-92	[0.133]	J EMPC	PCB-122	(0.0785)		PCB-131	(0.099)		PCB-162	(0.0747)	
PCB-113/90/101	0.913	J B C	PCB-114	(0.0698)		PCB-142	(0.0981)		PCB-167	(0.0733)	
PCB-83	(0.108)		PCB-105	[0.286]	J EMPC	PCB-132	0.53	J	PCB-156/157	0.133	J C
PCB-99	0.332	J	PCB-127	(0.0746)		PCB-133	(0.0911)		PCB-169	(0.117)	
PCB-112	(0.0722)		PCB-126	(0.0601)							
			Conc.	4.55					Conc.	7.37	
			EMPC	5.17					EMPC	7.49	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.0619)		PCB-174	0.675	J B	PCB-202	(0.0879)		PCB-208	(0.157)	
PCB-179	0.36	J	PCB-177	[0.313]	J EMPC	PCB-201	(0.0786)		PCB-207	(0.151)	
PCB-184	(0.0685)		PCB-181	(0.104)		PCB-204	(0.0842)		PCB-206	(0.243)	
PCB-176	[0.0948]	J EMPC	PCB-171/173	(0.118)	C	PCB-197	(0.0731)				
PCB-186	(0.066)		PCB-172	(0.114)		PCB-200	(0.0823)		Conc.	0	
PCB-178	0.146	J	PCB-192	(0.0888)		PCB-198/199	(0.11)	C	EMPC	0	
PCB-175	(0.108)		PCB-180/193	1.29	J B C	PCB-196	(0.105)				
PCB-187	[0.636]	J B EMPC	PCB-191	(0.0849)		PCB-203	(0.102)		Deca	Conc.	Qualifiers
PCB-182	(0.0996)		PCB-170	0.517	J	PCB-195	(0.121)		PCB-209	[0.099]	J EMPC
PCB-183	[0.273]	J EMPC	PCB-190	(0.0883)		PCB-194	0.303	J			
PCB-185	0.107	J	PCB-189	(0.0681)		PCB-205	(0.0927)				
			Conc.	3.1		Conc.	0.303				
			EMPC	4.41		EMPC	0.303				

Sample ID: Method Blank A5959**Method 1668A**

Client Data		Sample Data		Laboratory Data			
Name:	ANCHOR QEA	Matrix:	Solid	Project No.:	A5959	Date Received:	n/a
Project ID:	Jeld-Wen	Weight/Volume:	10.00 g	Sample ID:	MB1_11364_PCB_SDS	Date Extracted:	27-Sep-2013
Date Collected:	n/a	% Solids	n/a	QC Batch No.:	11364	Date Analyzed:	03-Oct-2013
Analyte	Conc.	DL	EMPC	Qualifier	Standard	Recovery	
	pg/g	pg/g	pg/g			%	
PCB-77 33'44'-TeCB	ND	0.119			ES PCB-1	71.6	
PCB-81 344'5'-TeCB	ND	0.121			ES PCB-3	76.9	
PCB-105 233'44'-PeCB	ND	0.103			ES PCB-4	85.5	
PCB-114 2344'5'-PeCB	ND	0.0988			ES PCB-15	93	
PCB-118 23'44'5'-PeCB	0.212			J	ES PCB-19	83.8	
PCB-123 23'44'5'-PeCB	ND	0.0946			ES PCB-37	89.1	
PCB-126 33'44'5'-PeCB	ND	0.0908			ES PCB-54	83.2	
PCB-156/157 233'44'5'/233'44'5'-HxCB	ND	0.144		C	ES PCB-77	91.5	
PCB-167 23'44'55'-HxCB	ND	0.0948			ES PCB-81	90.9	
PCB-169 33'44'55'-HxCB	ND	0.148			ES PCB-104	93.6	
PCB-189 233'44'55'-HpCB	ND	0.0891			ES PCB-105	91.1	
					ES PCB-114	90.1	
TEQs (WHO M/H)					ES PCB-118	92.5	
					ES PCB-123	98.1	
ND = 0	0.00000637		0.00000637		ES PCB-126	87.8	
ND = 0.5 x DL	0.0068		0.0068		ES PCB-153	89.7	
ND = DL	0.0136		0.0136		ES PCB-155	86.1	
					ES PCB-156/157	84.9	
Totals					ES PCB-167	85.9	
Mono-CBs	0.451		0.669		ES PCB-169	59.9	
Di-CBs	2.75				ES PCB-170	94.4	
Tri-CBs	0.271				ES PCB-180	92.1	
Tetra-CBs	3.49				ES PCB-188	93.2	
Penta-CBs	0.906		1.16		ES PCB-189	92.9	
Hexa-CBs	1.21				ES PCB-202	90.9	
Hepta-CBs	0.635				ES PCB-205	88.7	
Octa-CBs	ND	0.105			ES PCB-206	87.5	
Nona-CBs	ND	0.212			ES PCB-208	90.1	
Deca-CB	ND	0.132			ES PCB-209	82.6	
					CS PCB-28	101	
Total PCB (Mono-Deca)	9.71		10.2		CS PCB-111	103	
					CS PCB-178	107	


Checkcode: 558-987-TGG

SGS AP PCB 2013 Rev. 2.1

Report Created: 09-Oct-2013 17:21 Analyst: CW



2714 Exchange Drive T: 910 794-1613
 Wilmington F: 910 794-3919
 North Carolina 28405 www.us.sgs.com
 USA

Sample ID: Method Blank A5959						Method 1668A											
Client Data			Sample Data			Laboratory Data											
Name: ANCHOR QEA			Matrix: Solid			Project No.: A5959			Date Received: n/a								
Project ID: Jeld-Wen			Weight/Volume: 10.00 g			Sample ID: MB1_11364_PCB_SDS			Date Extracted: 27-Sep-2013								
Date Collected: n/a			% Solids: n/a			QC Batch No.: 11364			Date Analyzed: 03-Oct-2013								
			Units: pg/g			Checkcode: 558-987-TGG			Time Analyzed: 02:01:43								
Mono	Conc.	Qualifiers	Tri	Conc.	Qualifiers	Tetra	Conc.	Qualifiers	Tetra	Conc.	Qualifiers						
PCB-1	0.248	J	PCB-19	(0.292)		PCB-54	(0.122)		PCB-72	(0.117)							
PCB-2	0.203	J	PCB-30/18	(0.221)	C	PCB-50/53	(0.133)	C	PCB-68	0.294	J						
PCB-3	[0.218]	J EMPC	PCB-17	(0.257)		PCB-45	(0.147)		PCB-57	(0.121)							
			PCB-27	(0.193)		PCB-51	0.38	J	PCB-58	(0.116)							
Conc.	0.451		PCB-24	(0.2)		PCB-46	(0.162)		PCB-67	(0.111)							
EMPC	0.669		PCB-16	(0.327)		PCB-52	0.399	J	PCB-63	(0.109)							
			PCB-32	(0.179)		PCB-73	(0.105)		PCB-61/70/74/76	0.368	J C						
Di	Conc.	Qualifiers	PCB-34	(0.207)		PCB-43	(0.156)		PCB-66	(0.125)							
PCB-4	(0.559)		PCB-23	(0.2)		PCB-69/49	0.154	J C	PCB-55	(0.122)							
PCB-10	(0.375)		PCB-26/29	(0.202)	C	PCB-48	(0.133)		PCB-56	(0.127)							
PCB-9	(0.265)		PCB-25	(0.198)		PCB-44/47/65	1.9	J C	PCB-60	(0.121)							
PCB-7	(0.225)		PCB-31	(0.191)		PCB-59/62/75	(0.1)	C	PCB-80	(0.105)							
PCB-6	(0.243)		PCB-28/20	0.271	J C	PCB-42	(0.148)		PCB-79	(0.103)							
PCB-5	(0.246)		PCB-21/33	(0.195)	C	PCB-41	(0.16)		PCB-78	(0.126)							
PCB-8	(0.238)		PCB-22	(0.212)		PCB-71/40	(0.133)	C	PCB-81	(0.121)							
PCB-14	(0.206)		PCB-36	(0.195)		PCB-64	(0.0939)		PCB-77	(0.119)							
PCB-11	2.75		PCB-39	(0.188)													
PCB-13/12	(0.236)	C	PCB-38	(0.208)													
PCB-15	(0.22)		PCB-35	(0.213)													
			PCB-37	(0.205)													
Conc.	2.75		Conc.	0.271					Conc.	3.49							
EMPC	2.75		EMPC	0.271					EMPC	3.49							
 <p>2714 Exchange Drive Wilmington, NC 28405, USA</p> <p>Tel: +1 910 794-1613 Fax: +1 910 794-3919 www.us.sgs.com</p>						Totals			Conc.			EMPC					
						Mono-Tri						3.47			3.69		
						Tetra-Hexa						5.61			5.86		
						Hepta-Deca						0.635			0.635		
						Mono-Deca			9.71			10.2					

Sample ID: Method Blank A5959						Method 1668A					
Penta	Conc.	Qualifiers	Penta	Conc.	Qualifiers	Hexa	Conc.	Qualifiers	Hexa	Conc.	Qualifiers
PCB-104	(0.0765)		PCB-108/119/86/97/125/87	(0.111)	C	PCB-155	(0.0775)		PCB-165	(0.097)	
PCB-96	(0.0923)		PCB-117	(0.105)		PCB-152	(0.0832)		PCB-146	(0.109)	
PCB-103	(0.118)		PCB-116/85	(0.107)	C	PCB-150	(0.0833)		PCB-161	(0.0866)	
PCB-94	(0.134)		PCB-110	0.344	J	PCB-136	(0.0901)		PCB-153/168	0.366	J C
PCB-95	[0.251]	J EMPC	PCB-115	(0.0848)		PCB-145	(0.0884)		PCB-141	(0.12)	
PCB-100/93	(0.121)	C	PCB-82	(0.151)		PCB-148	(0.112)		PCB-130	(0.134)	
PCB-102	(0.123)		PCB-111	(0.0908)		PCB-151/135	(0.116)	C	PCB-137	(0.116)	
PCB-98	(0.126)		PCB-120	(0.09)		PCB-154	(0.104)		PCB-164	(0.0887)	
PCB-88	(0.137)		PCB-107/124	(0.0992)	C	PCB-144	(0.115)		PCB-163/138/129	0.409	J C
PCB-91	(0.113)		PCB-109	(0.0947)		PCB-147/149	0.436	J C	PCB-160	(0.0876)	
PCB-84	(0.146)		PCB-123	(0.0946)		PCB-134	(0.147)		PCB-158	(0.0854)	
PCB-89	(0.137)		PCB-106	(0.101)		PCB-143	(0.113)		PCB-128/166	(0.118)	C
PCB-121	(0.0921)		PCB-118	0.212	J	PCB-139/140	(0.111)	C	PCB-159	(0.0981)	
PCB-92	(0.13)		PCB-122	(0.111)		PCB-131	(0.127)		PCB-162	(0.0966)	
PCB-113/90/101	0.349	J C	PCB-114	(0.0988)		PCB-142	(0.126)		PCB-167	(0.0948)	
PCB-83	(0.144)		PCB-105	(0.103)		PCB-132	(0.124)		PCB-156/157	(0.144)	C
PCB-99	(0.122)		PCB-127	(0.0993)		PCB-133	(0.117)		PCB-169	(0.148)	
PCB-112	(0.0964)		PCB-126	(0.0908)							
			Conc.	0.906					Conc.	1.21	
			EMPC	1.16					EMPC	1.21	
Hepta	Conc.	Qualifiers	Hepta	Conc.	Qualifiers	Octa	Conc.	Qualifiers	Nona	Conc.	Qualifiers
PCB-188	(0.0807)		PCB-174	0.199	J	PCB-202	(0.0846)		PCB-208	(0.173)	
PCB-179	(0.0884)		PCB-177	(0.165)		PCB-201	(0.0757)		PCB-207	(0.166)	
PCB-184	(0.0894)		PCB-181	(0.144)		PCB-204	(0.081)		PCB-206	(0.251)	
PCB-176	(0.081)		PCB-171/173	(0.164)	C	PCB-197	(0.0704)				
PCB-186	(0.086)		PCB-172	(0.157)		PCB-200	(0.0792)		Conc.	0	
PCB-178	(0.115)		PCB-192	(0.123)		PCB-198/199	(0.105)	C	EMPC	0	
PCB-175	(0.149)		PCB-180/193	0.258	J C	PCB-196	(0.101)				
PCB-187	0.178	J	PCB-191	(0.118)		PCB-203	(0.098)		Deca	Conc.	Qualifiers
PCB-182	(0.138)		PCB-170	(0.158)		PCB-195	(0.163)		PCB-209	(0.132)	
PCB-183	(0.144)		PCB-190	(0.118)		PCB-194	(0.149)				
PCB-185	(0.14)		PCB-189	(0.0891)		PCB-205	(0.125)				
			Conc.	0.635		Conc.	0				
			EMPC	0.635		EMPC	0				

METHOD HR-PCB**PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8A**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM4_PCB_07122013_11SEP2013
 Instrument ID: MM4 GC Column ID:
 VER Data Filename: 131002S14 Analysis Date: 02-OCT-2013 23:13:41
 Lab ID: OPR1_11364_PCB

NATIVE ANALYTES	SPIKE CONC.	RECOVERY	RANGE (%)	OK
PCB-1 2-MoCB	50	84	50 - 150	Y
PCB-3 4-MoCB	50	85.6	50 - 150	Y
PCB-4 22'-DiCB	50	89.8	50 - 150	Y
PCB-15 44'-DiCB	50	87.9	50 - 150	Y
PCB-19 22'6'-TrCB	50	90.9	50 - 150	Y
PCB-37 344'-TrCB	50	93.3	50 - 150	Y
PCB-54 22'66'-TeCB	50	89	50 - 150	Y
PCB-77 33'44'-TeCB	50	91.6	50 - 150	Y
PCB-81 344'5'-TeCB	50	94	50 - 150	Y
PCB-104 22'466'-PeCB	50	90.2	50 - 150	Y
PCB-105 233'44'-PeCB	50	92.8	50 - 150	Y
PCB-114 2344'5'-PeCB	50	93.3	50 - 150	Y
PCB-118 23'44'5'-PeCB	50	95.6	50 - 150	Y
PCB-123 23'44'5'-PeCB	50	101	50 - 150	Y
PCB-126 33'44'5'-PeCB	50	92.4	50 - 150	Y
PCB-155 22'44'66'-HxCB	50	89.5	50 - 150	Y
PCB-156/157 ...-HxCB	100	94.8	50 - 150	Y
PCB-167 23'44'55'-HxCB	50	94	50 - 150	Y
PCB-169 33'44'55'-HxCB	50	94.9	50 - 150	Y
PCB-188 22'34'566'-HpCB	50	89.5	50 - 150	Y
PCB-189 233'44'55'-HpCB	50	92.2	50 - 150	Y
PCB-202 22'33'55'66'-OxCB	50	91.1	50 - 150	Y
PCB-205 233'44'55'6-OxCB	50	94.9	50 - 150	Y
PCB-206 22'33'44'55'6-NoCB	50	89	50 - 150	Y
PCB-208 22'33'455'66'-NoCB	50	90	50 - 150	Y
PCB-209 DeCB	50	91.8	50 - 150	Y

Contract-required recovery limits for OPR as specified in Table 6,
 Method 1668A.

METHOD HR-PCB

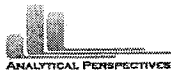
PCB ONGOING PRECISION AND RECOVERY (OPR)

FORM 8B

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM4_PCB_07122013_11SEP2013
 Instrument ID: MM4 GC Column ID:
 VER Data Filename: 131002S14 Analysis Date: 02-OCT-2013 23:13:41
 Lab ID: OPR1_11364_PCB

LABELLED STANDARDS	SPIKE CONC.	RECOVERY	RANGE (%)			OK
ES PCB-1	100	75.4	30	-	140	Y
ES PCB-3	100	80.3	30	-	140	Y
ES PCB-4	100	86.7	30	-	140	Y
ES PCB-15	100	90.9	30	-	140	Y
ES PCB-19	100	86.3	30	-	140	Y
ES PCB-37	100	89.4	30	-	140	Y
ES PCB-54	100	88.2	30	-	140	Y
ES PCB-77	100	90.4	30	-	140	Y
ES PCB-81	100	91.5	30	-	140	Y
ES PCB-104	100	91.4	30	-	140	Y
ES PCB-105	100	92.7	30	-	140	Y
ES PCB-114	100	88.9	30	-	140	Y
ES PCB-118	100	90.8	30	-	140	Y
ES PCB-123	100	94.8	30	-	140	Y
ES PCB-126	100	85.6	30	-	140	Y
ES PCB-153	100	90.5	30	-	140	Y
ES PCB-155	100	87.8	30	-	140	Y
ES PCB-156/157	200	85	30	-	140	Y
ES PCB-167	100	85.5	30	-	140	Y
ES PCB-169	100	53.4	30	-	140	Y
ES PCB-170	100	94	30	-	140	Y
ES PCB-180	100	95.7	30	-	140	Y
ES PCB-188	100	93.9	30	-	140	Y
ES PCB-189	100	92.2	30	-	140	Y
ES PCB-202	100	92.3	30	-	140	Y
ES PCB-205	100	88.2	30	-	140	Y
ES PCB-206	100	90.7	30	-	140	Y
ES PCB-208	100	90.5	30	-	140	Y
ES PCB-209	100	84.3	30	-	140	Y
CLEANUP STANDARDS						
CS PCB-28	100	101	40	-	125	Y
CS PCB-111	100	100	40	-	125	Y
CS PCB-178	100	102	40	-	125	Y

Processed: 09 Oct 2013 17:19 Analyst: CW



Sample Receipt Notification

2714 Exchange Drive
 Wilmington, NC 28405 USA
 Tel: 910 794-1613
 Toll Free: 866 846-8290
 Fax: 910 794-3919

Project Manager: Amy Boehm
Receipt Date & Time: 30-Apr-13 at 09:40
AP Project name: A5959
Requested TAT: 21 days
Projected due date: 17-Oct-13
Matrix: Sediment
Phone#: 910-794-1613
Email Address: Amy.Boehm@sgs.com

Company Contact: Delaney Peterson
Company: ANCHOR QEA
Project Name & Site: Jeld-Wen
Project PO#:
QAAP/Contract #: INV → Jeld-Wen
Requested Analysis:
Phone#: 206.903.3396
Email Address: dpeterson@anchorqea.com

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
JW-EA09-SC36-B-130426	A5959_001	SED	1	26-Apr-13	09:10	3.9	1	n/a
JW-EA09-SC36-C-130426	A5959_002	SED	1	26-Apr-13	09:15	3.9	1	n/a

Preservation Type: Ice - Good Condition **Sample Seals:** No

Notes/Comments:
 Samples received intact
 Aliquots of each sample to be sent to ARI for TOC and TS

MILUBA 209 JPR

Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.

Received by: Barbara Hager Logged in by: Barbara Hager

QC'ed by _____
 SGS Analytical Perspectives



CHAIN OF CUSTODY A5959

16 of 428
 SGS ANALYTICAL PERSPECTIVES
 5500 Business Drive
 Wilmington, NC 28405
 +1 910 350 1903
 www.sgs.com

A5980
~~A5448~~

CLIENT: <u>Anchor QEA</u>					SGS Reference #:												PAGE <u>1</u>		
CONTACT: <u>Delaney Peterson</u> PHONE NO: <u>(206) 287-9130</u>					# CONTAINERS	SAMPLE TYPE	PRESERVATIVES USED											OF <u>6</u>	
PROJECT: <u>Seld-Wen</u> SITE / PWSID / WBS #:								C= COMP G= GRAB	ANALYSIS REQUIRED										
REPORTS TO:										Archive DIF components									
EMAIL: <u>labdata@anchorqea.com</u>																			
INVOICE TO: QUOTE # P.O. NUMBER					REMARKS														
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX															
1	JW-EA09-SC36-A-130426	4/26/13	9:05	SED	1		X												
2	JW-EA09-SC36-B-130426	4/26/13	9:10	SED	1		X] aligns to A4	
3	JW-EA09-SC36-C-130426	4/26/13	9:15	SED	1		X												
4	JW-EA09-SC36-D-130426	4/26/13	9:20	SED	1		X												
5	JW-EA09-SC36-E-130426	4/26/13	9:25	SED	1		X												
6	JW-EA09-SC36-F-130426	4/26/13	9:30	SED	1		X												
7	JW-EA09-SC36-G-130426	4/26/13	9:35	SED	1		X												
8	JW-EA09-SC36-H-130426	4/26/13	9:40	SED	1		X												
9	JW-EA09-SC36-I-130426	4/26/13	9:45	SED	1		X												
10	JW-EA09-SC36-J-130426	4/26/13	9:50	SED	1		X												
COLLECTED/RELINQUISHED BY: (1) <i>[Signature]</i>		DATE 4/26/13	TIME 0900	RECEIVED BY:		REPORT LEVEL: <input type="checkbox"/> Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level IV <input type="checkbox"/> Rush: _____ <input type="checkbox"/> Standard				REQUESTED TURNAROUND TIME:									
Relinquished By: (2)		Date	Time	Received By:		SPECIAL DELIVERABLES: State of Origin: _____ <input type="checkbox"/> Trust Fund													
Relinquished By: (3)		Date	Time	Received By:		SPECIAL INSTRUCTIONS:													
Received For Laboratory By: <i>[Signature]</i>		Date 4/26/13	Time 0940	CoC Seal: <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT		Shipping Carrier:				Notes:									
				Sample Receipt Temp: <u>39.2.5</u>		Shipping Ticket No:													

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.



Project Initiation Form

Project Number: A5959Initiation Date: 26-Sep-13Client Name: ANCHOR QEASample Matrix: SedimentAnalysis Method: 1668A PCBTAT: 21 daysProject Manager: Amy

Special Instructions

M1668 - OPR

Reporting Instructions

M1668A 209
Anchor-Equis EDDPM Initials: akornegay Date: 26-Sep-2013



1668 PCB

Solids

Project # A5959 Batch # 11364 Extract Init/Date: 09/27/13 ASECS Init/Date: 10-1-13 Transfer Init/Date: 09/10-1-13

AP Sample ID	Client Sample ID	Extract WT (g)	SDS # Hex/Tol	RV		(Td)	ASECS #	Observations
				Initials	#			
A5959_11364_001	JW-EA09-SC36-B-130426	12.84	12	MK	2	-	13	Dark Brown, Gritty, Moist
A5959_11364_002	JW-EA09-SC36-C-130426	12.57	13	MK	2	-	12	See 001
MB1_11364	Method Blank	10.00	10	MK	2	-	15	Hydromatrix 09/18/2013
OPR1_11364	0_11364_OPR001	10.00	11	MK	2	-	14	Hydromatrix 09/18/2013
						9/30/13	10-1-13	

Special Instructions	Cycle Time	Supply IDs
M1668 - OPR		
	Start <u>6:00 pm</u>	Toluene <u>01847</u> Acid Silica <u>09282013</u>
	Stop <u>9:15 am</u>	CH ₂ Cl ₂ <u>01901</u> Base Silica <u>09252013</u>
		Sand <u>NA</u> HydroMatrix <u>09182013</u>
		Florisil <u>09282013</u> Tetradecane <u>NA</u>
	Start <u>5:00 pm</u>	Hexane <u>01882</u> NazSoy H ₂ SO ₄ <u>09182013</u>
	Stop <u>9:00 AM</u>	Silica <u>08282013</u> AgNO ₃ K-Silicate <u>09232013</u>

SGS ANALYTICAL PERSPECTIVES		1668 PCB			Solids		
Project #		A5959		Batch #		11364	
SPIKE PROFILE PCBs							
Analyte	Spike Compounds	Spiked Amount	Spiked Volume	Solution Conc.	Split Factor	Final Volume	Final Solvent
PCB	ES	2 ng	20 uL	100 pg/uL	1	20 uL	Nonane
	CS	2 ng	20 uL	100 pg/uL	1	20 uL	Nonane
	JS	2 ng	10 uL	200 pg/uL	1	20 uL	Nonane
	AAP68A Batch CS3	1 ng	20 uL	50 pg/uL	1	20 uL	Nonane
	AAP68A	1 ng	20 uL	50 pg/uL	1	20 uL	Nonane
Spiker Initials/Date: <i>MA 9/27/13</i> <i>MA 9/27/13</i> <i>MA 10/1/13</i> <i>MA 10/1/13</i>							
AP Sample ID	Client Sample ID	PCB ES	PCB AX 209	PCB CS	PCB JS		
		Amount: <i>20uL</i> Observer Initials	Amount: <i>20uL</i> Observer Initials	Amount: <i>20uL</i> Observer Initials	Amount: <i>10uL</i> Observer Initials	Amount:	Observer Initials
A5959_11364_001	JW-EA09-SC36-B-130426	<i>MA</i>	-	<i>MA</i>	<i>MA</i>		
A5959_11364_002	JW-EA09-SC36-C-130426	<i>MA</i>	-	<i>MA</i>	<i>MA</i>		
MB1_11364	Method Blank	<i>MA</i>	-	<i>MA</i>	<i>MA</i>		
OPR1_11364	0_11364_OPR001	<i>MA</i>	<i>MA</i>	<i>MA</i>	<i>MA</i>		
		<i>9-27-13</i>	<i>9-27-13</i>	<i>9-30-13</i> <i>10-1-13</i>	<i>10-1-13</i>		
Standard Information							
Std. Type		PCB ES	AX 209		PCB CS/SS	PCB JS	
Spike ID		<i>07122013A</i>	<i>07122013A</i>		<i>07122013A</i>	<i>07122013A</i>	
SIL #		<i>13-39-2</i>	<i>13-39-1</i>		<i>13-39-3</i>	<i>13-39-4</i>	
Concentration		100	50		100	200	
Units		pg/uL	pg/uL		pg/uL	pg/uL	
Exp. Date		<i>7-12-14</i>	<i>7-12-14</i>		<i>7-12-14</i>	<i>7-12-14</i>	
Spike amount (uL)		20	20		20	10	

TRANSFER: *M. S. Kelly* 10-1-13
 RECEIVED: *[Signature]* 10-1-13

**EE or 10-1-13*

% Solids

Project: A5959Batch #: 11364Procedure:

- Tare Balance.
- Add boat and weigh. Record "Boat Wt."
- Add the sample (2-10 g) to the boat and record "Wet Wt. + Boat Wt." (total).
- Dry in oven overnight @ 107° C.
- Tare Balance.
- Return dish to toplayer and record "Residue + Boat Wt."

AP Sample ID	Boat Wt.	Wet Wt. + Boat Wt.	Chem/Date	Residue + Boat Wt.	Chem/Date	wt Eq	Comments
001	1.74 1.34	5.62	NA	^{E/E} 4.66 4.69	run 9/27/13	12.78g	
002	1.32	4.56	NA 9/26/13	3.91	run 9/27/13	12.51g	
	E/E NA 9/26/13						



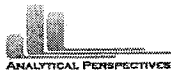
Wt. Volume Results for Extraction Batch 11364

Batch Project #'s: A5959

Comments:

AP Sample ID	Boat WT.	Wet Wt. + Boat Wt.	Residue+ Boat Wt.	% Solid	Average % Solid	RSD	Qtest Ratio (if Applicable)	Dry Wt. Equiv.	Extracted Wt.	Final Wt.
A5959_001	1.34	5.62	4.69	78.27%	78.27%			12.78	12.84	10.05
A5959_001	1.34	5.62	4.69	78.27%	78.27%			12.78	12.84	10.05
A5959_001	1.34	5.62	4.69	78.27%	78.27%			12.78	12.84	10.05
A5959_002	1.32	4.56	3.91	79.94%	79.94%			12.51	12.51	10
A5959_002	1.32	4.56	3.91	79.94%	79.94%			12.51	12.51	10
A5959_002	1.32	4.56	3.91	79.94%	79.94%			12.51	12.51	10

%Solids data entry and calcs verified. ajb 10/10/2013



Sample Receipt Notification

2714 Exchange Drive
 Wilmington, NC 28405 USA
 Tel: 910 794-1613
 Toll Free: 866 846-8290
 Fax: 910 794-3919

Project Manager: Amy Boehm
Receipt Date & Time: 30-Apr-13 at 09:40
AP Project name: A5959
Requested TAT: 21 days
Projected due date: 17-Oct-13
Matrix: Sediment
Phone#: 910-794-1613
Email Address: Amy.Boehm@sgs.com

Company Contact: Delaney Peterson
Company: ANCHOR QEA
Project Name & Site: Jeld-Wen
Project PO#:
QAAP/Contract #: INV → Jeld-Wen
Requested Analysis:
Phone#: 206.903.3396
Email Address: dpeterson@anchorqea.com


Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
JW-EA09-SC36-B-130426	A5959_001	SED	1	26-Apr-13	09:10	3.9	1	n/a
JW-EA09-SC36-C-130426	A5959_002	SED	1	26-Apr-13	09:15	3.9	1	n/a

Preservation Type: Ice - Good Condition **Sample Seals:** No

Notes/Comments:
 Samples received intact
 Aliquots of each sample to be sent to ARI for TOC and TS
 M1663A 209 JPR

Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.

Received by: Barbara Hager Logged in by: Barbara Hager

QC'ed by: 
 SGS Analytical Perspectives



CHAIN OF CUSTODY A5959

24 of 428
 SGS ANALYTICAL PERSPECTIVES
 5500 Business Drive
 Wilmington, NC 28405
 +1 910 350 1903
 www.sgs.com

A5980
~~A5448~~

CLIENT: <u>Anchor QEA</u>					SGS Reference #:												PAGE <u>1</u>		
CONTACT: <u>Delaney Peterson</u> PHONE NO: <u>(206) 287-9130</u>					# CONTAINERS	SAMPLE TYPE	PRESERVATIVES USED											OF <u>6</u>	
PROJECT: <u>Seld-Wen</u> SITE / PWSID / WBS #:								C= COMP G= GRAB	ANALYSIS REQUIRED										
REPORTS TO:										Archive DIF components									
EMAIL: <u>labdata@anchoragea.com</u>																			
INVOICE TO: QUOTE # P.O. NUMBER					REMARKS														
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	SAMPLE TYPE	PRESERVATIVES USED	ANALYSIS REQUIRED											REMARKS
1	JW-EA09-SC36-A-130426	4/26/13	9:05	SED	1		X												
2	JW-EA09-SC36-B-130426	4/26/13	9:10	SED	1		X] aligns to A4
3	JW-EA09-SC36-C-130426	4/26/13	9:15	SED	1		X												
4	JW-EA09-SC36-D-130426	4/26/13	9:20	SED	1		X												
5	JW-EA09-SC36-E-130426	4/26/13	9:25	SED	1		X												
6	JW-EA09-SC36-F-130426	4/26/13	9:30	SED	1		X												
7	JW-EA09-SC36-G-130426	4/26/13	9:35	SED	1		X												
8	JW-EA09-SC36-H-130426	4/26/13	9:40	SED	1		X												
9	JW-EA09-SC36-I-130426	4/26/13	9:45	SED	1		X												
10	JW-EA09-SC36-J-130426	4/26/13	9:50	SED	1		X												
COLLECTED/RELINQUISHED BY: (1) <i>[Signature]</i>		DATE 4/26/13	TIME 0900	RECEIVED BY:		REPORT LEVEL: <input type="checkbox"/> Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level IV <input type="checkbox"/> Rush: _____ <input type="checkbox"/> Standard			REQUESTED TURNAROUND TIME:										
Relinquished By: (2)		Date	Time	Received By:		SPECIAL DELIVERABLES: State of Origin: _____ <input type="checkbox"/> Trust Fund													
Relinquished By: (3)		Date	Time	Received By:		SPECIAL INSTRUCTIONS:													
Received For Laboratory By: <i>[Signature]</i>		Date 4/26/13	Time 0940	CoC Seal: <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT		Shipping Carrier:			Notes:										
				Sample Receipt Temp: <u>39.2.5</u>		Shipping Ticket No:													

SGS Analytical Perspectives — Run Log

Project: A5959_11364_PCB

Instrument: MM4 (AutoSpec-Ultima)

MS Experiment: pcb-2011-08

GC Program: pcb90_FI

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
12	131002S12	13	CS3_131002_PCB_SC	1.00	SIL 13-40-1	CTW	129-143	02-Oct-2013	21:21:37
14	131002S14	39	OPR1_11364_PCB	1.00	0_11364_OPR001	CTW	717-475	02-Oct-2013	23:13:41
15	131002S15	12	SBS_131002_PCB_SC	1.00	SIL9-41-1	CTW	840-994	03-Oct-2013	00:09:42
17	131002S17	40	MB1_11364_PCB_SDS ✓	10.00	Method Blank	CTW	558-987	03-Oct-2013	02:01:43
19	131002S19	12	SBS_131002_PCB_SD	1.00	SIL9-41-1	CTW	424-759	03-Oct-2013	03:53:46
20	131002S20	41	A5959_11364_PCB_001 ✓	10.05	JW-EA09-SC36-B-130426	CTW	854-086	03-Oct-2013	04:49:48
21	131002S21	42	A5959_11364_PCB_002	10.00	JW-EA09-SC36-C-130426	CTW	179-096	03-Oct-2013	05:45:48

REVIEWED*By cwood at 5:41 pm, Oct 09, 2013***APPROVED***By Amy Boehm at 2:26 pm, Oct 10, 2013*

Lab ID: MB1_11364_PCB_SDS

ACQ: 03-Oct-2013 02:01:43 CTW

Wt/Vol: 10.00 g

ICAL: MM4_PCB_07122013_11SEP2013 CS3_131002_PCB_SC

Client ID: Method Blank A5959

UTP: 09-Oct-2013 17:21 CTW

J-level: 1 pg/g Split: 1

Checkcode: 558-987-TGG

Datafile: 131002S17

RPT: 09-Oct-2013 17:21 CW

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method HR-PCB

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	NotFnd		1.0006	-		0.00E+00		1.51	ND	2.49E+03	0.119
PCB-81 344'5'-TeCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	2.49E+03	0.121
PCB-105 233'44'-PeCB	NotFnd		1.0007	-		0.00E+00		1.00	ND	1.37E+03	0.103
PCB-114 2344'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.06	ND	1.37E+03	0.0988
PCB-118 23'44'5'-PeCB	31.49	J	1.0008	1.0007	-0.2	2.84E+04	0.53	1.01	0.212	1.37E+03	0.103
PCB-123 23'44'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.06	ND	1.37E+03	0.0946
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.26	ND	1.55E+03	0.0908
PCB-156/157 ...-HxCB	NotFnd	C	1.0005	-		0.00E+00		1.06	ND	1.20E+03	0.144
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.12	ND	1.20E+03	0.0948
PCB-169 33'44'55'-HxCB	NotFnd		1.0005	-		0.00E+00		1.09	ND	1.20E+03	0.148
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.15	ND	1.30E+03	0.0891
PCB-209 DeCB	NotFnd		1.0004	-		0.00E+00		1.03	ND	9.95E+02	0.132
ES PCB-1	9.95		0.7192	0.7185	-0.4	3.34E+07	3.15	1.04	71.6 %	25%	150%
ES PCB-3	11.90		0.8591	0.8588	-0.2	3.41E+07	3.18	0.99	76.9 %	25%	150%
ES PCB-4	12.11		0.8744	0.8741	-0.2	2.72E+07	1.54	0.71	85.5 %	25%	150%
ES PCB-15	17.26		1.2448	1.2457	+0.9	4.54E+07	1.61	1.09	93 %	25%	150%
ES PCB-19	14.83		1.0705	1.0707	+0.2	2.22E+07	1.07	0.59	83.8 %	25%	150%
ES PCB-37	23.29		1.0867	1.0869	+0.3	3.40E+07	1.07	1.32	89.1 %	25%	150%
ES PCB-54	17.50		0.8173	0.8167	-0.6	3.26E+07	0.77	1.35	83.2 %	25%	150%
ES PCB-77	29.51		1.3765	1.3772	+1.2	2.83E+07	0.81	1.07	91.5 %	25%	150%
ES PCB-81	29.03		1.3542	1.3551	+1.6	3.13E+07	0.81	1.19	90.9 %	25%	150%
ES PCB-104	22.22		0.8156	0.8151	-0.7	3.33E+07	1.55	1.62	93.6 %	25%	150%
ES PCB-105	32.46		1.1904	1.1907	+0.6	2.61E+07	1.55	1.30	91.1 %	25%	150%
ES PCB-114	31.92		1.1704	1.1707	+0.6	2.61E+07	1.56	1.32	90.1 %	25%	150%
ES PCB-118	31.47		1.1540	1.1543	+0.6	2.65E+07	1.52	1.30	92.5 %	25%	150%
ES PCB-123	31.19		1.1439	1.1441	+0.4	2.72E+07	1.55	1.26	98.1 %	25%	150%
ES PCB-126	35.08		1.2864	1.2867	+0.6	2.71E+07	1.63	1.41	87.8 %	25%	150%
ES PCB-153	33.05		0.9693	0.9692	-0.2	2.24E+07	1.21	1.15	89.7 %	25%	150%
ES PCB-155	27.07		0.7939	0.7936	-0.5	2.91E+07	1.25	1.53	86.1 %	25%	150%
ES PCB-156/157	37.62		1.1032	1.1032	0	4.44E+07	1.26	1.19	84.9 %	25%	150%
ES PCB-167	36.65		1.0747	1.0747	0	2.32E+07	1.24	1.22	85.9 %	25%	150%
ES PCB-169	40.36		1.1833	1.1835	+0.5	1.56E+07	1.22	1.18	59.9 %	25%	150%
ES PCB-170	39.85		0.9005	0.9005	0	1.76E+07	1.03	1.22	94.4 %	25%	150%
ES PCB-180	38.80		0.8766	0.8766	0	1.98E+07	1.03	1.41	92.1 %	25%	150%
ES PCB-188	31.91		0.7211	0.7210	-0.2	3.50E+07	1.09	1.71	93.2 %	25%	150%
ES PCB-189	42.49		0.9601	0.9600	-0.3	2.57E+07	1.06	1.84	92.9 %	25%	150%
ES PCB-202	36.45		0.8236	0.8235	-0.2	2.84E+07	0.89	1.42	90.9 %	25%	150%
ES PCB-205	44.66		1.0089	1.0090	+0.3	1.67E+07	0.91	1.25	88.7 %	25%	150%
ES PCB-206	46.12		1.0420	1.0420	0	1.63E+07	0.78	1.24	87.5 %	25%	150%
ES PCB-208	42.08		0.9508	0.9507	-0.3	1.93E+07	0.77	1.42	90.1 %	25%	150%
ES PCB-209	47.47		1.0725	1.0725	0	1.53E+07	1.16	1.23	82.6 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	19.86		0.9271	0.9269	-0.2	4.11E+07	1.05	1.06	114 %	30%	135%
SS PCB-111	29.54		1.0835	1.0836	+0.2	3.02E+07	1.51	1.06	105 %	30%	135%
SS PCB-178	34.49		1.0114	1.0114	0	2.34E+07	1.02	0.58	115 %	30%	135%
CS PCB-28	19.86		0.9271	0.9269	-0.2	4.11E+07	1.05	1.40	101 %	30%	135%
CS PCB-111	29.54		1.0835	1.0836	+0.2	3.02E+07	1.51	1.34	103 %	30%	135%
CS PCB-178	34.49		1.0114	1.0114	0	2.34E+07	1.02	0.99	107 %	30%	135%
JS PCB-9	13.85					4.48E+07	1.60				
JS PCB-52	21.43					2.90E+07	0.78				
JS PCB-101	27.27					2.20E+07	1.54				
JS PCB-138	34.10					2.20E+07	1.26				
JS PCB-194	44.26					1.50E+07	0.91				
						Totals	NON-EMPC	EMPC	DL		
						Mono-CBs	0.451	0.669	0.0849		
						Di-CBs	2.75	2.75	0.389		
						Tri-CBs	0.271	0.271	0.248		
						Tetra-CBs	3.49	3.49	0.126		
						Penta-CBs	0.906	1.16	0.0945		
						Hexa-CBs	1.21	1.21	0.116		
						Hepta-CBs	0.635	0.635	0.119		
						Octa-CBs	0	0	0.105		
						Nona-CBs	0	0	0.212		
PCB-1 2-MoCB	9.96	J	1.0011	1.0011	0	4.95E+04	3.12	1.20	0.248	3.10E+03	0.0759
PCB-2 3-MoCB	11.75	J	0.9877	0.9875	-0.1	4.15E+04	3.29	1.20	0.203	3.10E+03	0.0971
PCB-3 4-MoCB	11.91	J EMPC	1.0010	1.0012	+0.1	4.60E+04	2.25	1.24	0.218	3.10E+03	0.094
PCB-4 22'-DiCB	NotFnd		1.0012	-		0.00E+00		0.97	ND	1.14E+04	0.559
PCB-10 26'-DiCB	NotFnd		1.0138	-		0.00E+00		1.45	ND	1.14E+04	0.375
PCB-9 25'-DiCB	NotFnd		1.0011	-		0.00E+00		1.02	ND	6.76E+03	0.265
PCB-7 24'-DiCB	NotFnd		1.0114	-		0.00E+00		1.20	ND	6.76E+03	0.225
PCB-6 23'-DiCB	NotFnd		1.0263	-		0.00E+00		1.11	ND	6.76E+03	0.243
PCB-5 23'-DiCB	NotFnd		1.0455	-		0.00E+00		1.10	ND	6.76E+03	0.246
PCB-8 24'-DiCB	NotFnd		1.0534	-		0.00E+00		1.14	ND	6.76E+03	0.238
PCB-14 35'-DiCB	NotFnd		0.9280	-		0.00E+00		1.31	ND	6.76E+03	0.206
PCB-11 33'-DiCB	16.74		0.9699	0.9698	-0.1	7.05E+05	SI	1.13	2.75	6.76E+03	0.239
PCB-13/12 34'/34'-DiCB	NotFnd	C	0.9853	-		0.00E+00		1.15	ND	6.76E+03	0.236
PCB-15 44'-DiCB	NotFnd		1.0008	-		0.00E+00		1.23	ND	6.76E+03	0.22
PCB-19 22'6-TrCB	NotFnd		1.0011	-		0.00E+00		0.97	ND	3.95E+03	0.292
PCB-30/18 246/22'5-TrCB	NotFnd	C	1.1090	-		0.00E+00		1.28	ND	3.95E+03	0.221
PCB-17 22'4-TrCB	NotFnd		1.1341	-		0.00E+00		1.10	ND	3.95E+03	0.257
PCB-27 23'6-TrCB	NotFnd		1.1466	-		0.00E+00		1.47	ND	3.95E+03	0.193
PCB-24 236-TrCB	NotFnd		1.1542	-		0.00E+00		1.42	ND	3.95E+03	0.2
PCB-16 22'3-TrCB	NotFnd		1.1604	-		0.00E+00		0.86	ND	3.95E+03	0.327

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	NotFnd		1.1906	-		0.00E+00		1.58	ND	3.95E+03	0.179
PCB-34 23'5'-TrCB	NotFnd		0.8062	-		0.00E+00		1.27	ND	4.33E+03	0.207
PCB-23 235-TrCB	NotFnd		0.8118	-		0.00E+00		1.31	ND	4.33E+03	0.2
PCB-26/29 23'5'/245-TrCB	NotFnd	C	0.8236	-		0.00E+00		1.30	ND	4.33E+03	0.202
PCB-25 23'4-TrCB	NotFnd		0.8317	-		0.00E+00		1.33	ND	4.33E+03	0.198
PCB-31 24'5-TrCB	NotFnd		0.8432	-		0.00E+00		1.38	ND	4.33E+03	0.191
PCB-28/20 244'/233'-TrCB	19.87	J C	0.8545	0.8533	-1.4	5.93E+04	1.19	1.28	0.271	4.33E+03	0.205
PCB-21/33 234/23'4'-TrCB	NotFnd	C	0.8617	-		0.00E+00		1.35	ND	4.33E+03	0.195
PCB-22 234'-TrCB	NotFnd		0.8772	-		0.00E+00		1.24	ND	4.33E+03	0.212
PCB-36 33'5-TrCB	NotFnd		0.9346	-		0.00E+00		1.35	ND	4.33E+03	0.195
PCB-39 34'5-TrCB	NotFnd		0.9476	-		0.00E+00		1.40	ND	4.33E+03	0.188
PCB-38 345-TrCB	NotFnd		0.9689	-		0.00E+00		1.26	ND	4.33E+03	0.208
PCB-35 33'4-TrCB	NotFnd		0.9859	-		0.00E+00		1.24	ND	4.33E+03	0.213
PCB-37 344'-TrCB	NotFnd		1.0009	-		0.00E+00		1.28	ND	4.33E+03	0.205
PCB-54 22'66'-TeCB	NotFnd		1.0010	-		0.00E+00		1.00	ND	2.22E+03	0.122
PCB-50/53 22'46/22'56'-TeCB	NotFnd	C	0.9055	-		0.00E+00		0.81	ND	1.75E+03	0.133
PCB-45 22'36-TeCB	NotFnd		0.9315	-		0.00E+00		0.73	ND	1.75E+03	0.147
PCB-51 22'46'-TeCB	20.02	J	0.9347	0.9345	-0.2	4.73E+04	0.84	0.79	0.38	1.75E+03	0.136
PCB-46 22'36'-TeCB	NotFnd		0.9440	-		0.00E+00		0.67	ND	1.75E+03	0.162
PCB-52 22'55'-TeCB	21.44	J	1.0010	1.0009	-0.1	4.97E+04	0.84	0.79	0.399	1.75E+03	0.136
PCB-73 23'5'6-TeCB	NotFnd		1.0067	-		0.00E+00		1.03	ND	1.75E+03	0.105
PCB-43 22'35-TeCB	NotFnd		1.0104	-		0.00E+00		0.69	ND	1.75E+03	0.156
PCB-69/49 23'46/22'45'-TeCB	21.86	J C	1.0193	1.0205	+1.6	2.30E+04	0.84	0.95	0.154	1.75E+03	0.113
PCB-48 22'45-TeCB	NotFnd		1.0316	-		0.00E+00		0.81	ND	1.75E+03	0.133
PCB-44/47/65 ...-TeCB	22.33	J C	1.0413	1.0421	+1.1	2.52E+05	0.75	0.85	1.9	1.75E+03	0.127
PCB-59/62/75 ...-TeCB	NotFnd	C	1.0536	-		0.00E+00		1.08	ND	1.75E+03	0.1
PCB-42 22'34'-TeCB	NotFnd		1.0613	-		0.00E+00		0.73	ND	1.75E+03	0.148
PCB-41 22'34-TeCB	NotFnd		1.0760	-		0.00E+00		0.67	ND	1.75E+03	0.16
PCB-71/40 23'4'6/22'33'-TeCB	NotFnd	C	1.0807	-		0.00E+00		0.81	ND	1.75E+03	0.133
PCB-64 234'6-TeCB	NotFnd		1.0897	-		0.00E+00		1.15	ND	1.75E+03	0.0939
PCB-72 23'55'-TeCB	NotFnd		0.8295	-		0.00E+00		1.32	ND	2.49E+03	0.117
PCB-68 23'45'-TeCB	24.33	J	0.8380	0.8380	0	6.63E+04	0.72	1.44	0.294	2.49E+03	0.107
PCB-57 233'5-TeCB	NotFnd		0.8502	-		0.00E+00		1.27	ND	2.49E+03	0.121
PCB-58 233'5'-TeCB	NotFnd		0.8571	-		0.00E+00		1.33	ND	2.49E+03	0.116
PCB-67 23'45-TeCB	NotFnd		0.8621	-		0.00E+00		1.38	ND	2.49E+03	0.111
PCB-63 234'5-TeCB	NotFnd		0.8697	-		0.00E+00		1.41	ND	2.49E+03	0.109
PCB-61/70/74/76 ...-TeCB	25.55	J C	0.8793	0.8800	+1.1	7.49E+04	0.70	1.30	0.368	2.49E+03	0.119
PCB-66 23'44'-TeCB	NotFnd		0.8890	-		0.00E+00		1.23	ND	2.49E+03	0.125
PCB-55 233'4-TeCB	NotFnd		0.8938	-		0.00E+00		1.26	ND	2.49E+03	0.122
PCB-56 233'4'-TeCB	NotFnd		0.9086	-		0.00E+00		1.21	ND	2.49E+03	0.127
PCB-60 2344'-TeCB	NotFnd		0.9148	-		0.00E+00		1.27	ND	2.49E+03	0.121
PCB-80 33'55'-TeCB	NotFnd		0.9271	-		0.00E+00		1.46	ND	2.49E+03	0.105
PCB-79 33'45'-TeCB	NotFnd		0.9716	-		0.00E+00		1.49	ND	2.49E+03	0.103
PCB-78 33'45-TeCB	NotFnd		0.9878	-		0.00E+00		1.22	ND	2.49E+03	0.126
PCB-104 22'466'-PeCB	NotFnd		1.0010	-		0.00E+00		1.06	ND	1.41E+03	0.0765
PCB-96 22'366'-PeCB	NotFnd		1.0150	-		0.00E+00		0.87	ND	1.41E+03	0.0923
PCB-103 22'45'6-PeCB	NotFnd		0.8886	-		0.00E+00		0.85	ND	1.37E+03	0.118
PCB-94 22'356'-PeCB	NotFnd		0.8954	-		0.00E+00		0.75	ND	1.37E+03	0.134

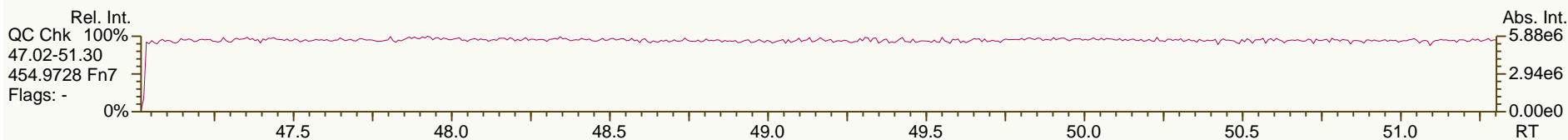
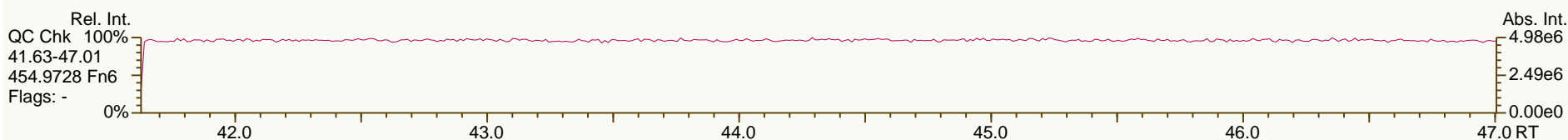
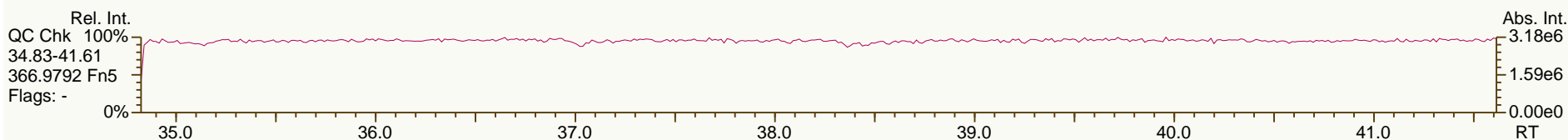
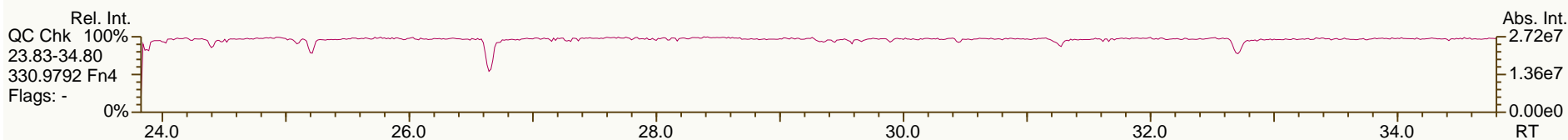
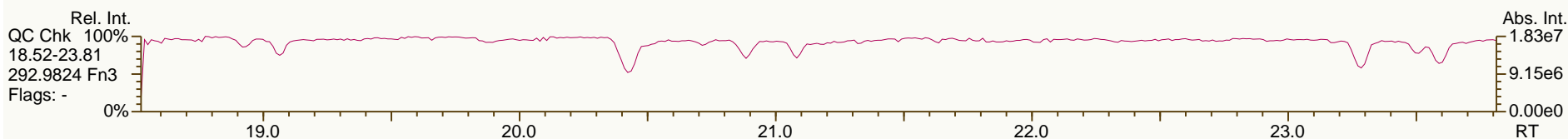
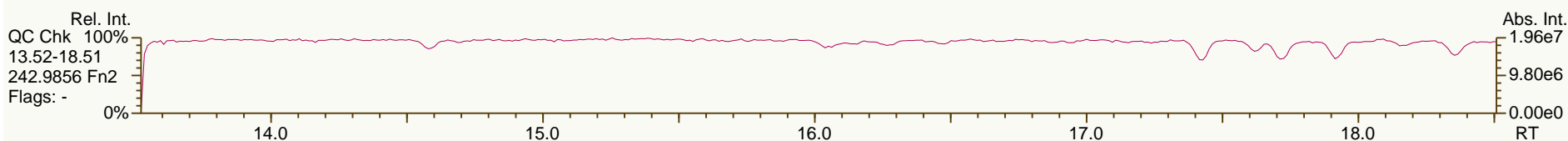
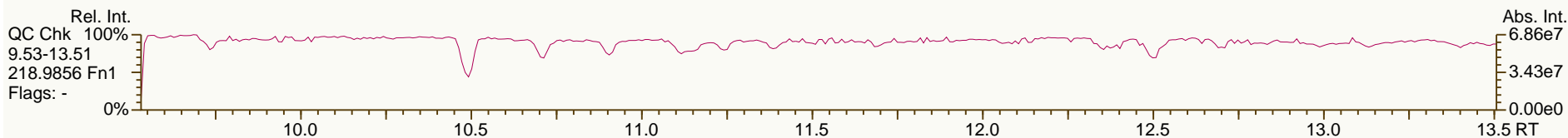
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PCB-95 22'35'6-PeCB	24.79	J EMPC	0.9092	0.9091	-0.1	2.70E+04	0.77	0.79	0.251	1.37E+03	0.126
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9162	-		0.00E+00		0.83	ND	1.37E+03	0.121
PCB-102 22'456'-PeCB	NotFnd		0.9204	-		0.00E+00		0.81	ND	1.37E+03	0.123
PCB-98 22'34'6'-PeCB	NotFnd		0.9226	-		0.00E+00		0.80	ND	1.37E+03	0.126
PCB-88 22'346-PeCB	NotFnd		0.9331	-		0.00E+00		0.73	ND	1.37E+03	0.137
PCB-91 22'34'6-PeCB	NotFnd		0.9360	-		0.00E+00		0.89	ND	1.37E+03	0.113
PCB-84 22'33'6-PeCB	NotFnd		0.9429	-		0.00E+00		0.69	ND	1.37E+03	0.146
PCB-89 22'346'-PeCB	NotFnd		0.9577	-		0.00E+00		0.73	ND	1.37E+03	0.137
PCB-121 23'45'6-PeCB	NotFnd		0.9710	-		0.00E+00		1.09	ND	1.37E+03	0.0921
PCB-92 22'355'-PeCB	NotFnd		0.9827	-		0.00E+00		0.77	ND	1.37E+03	0.13
PCB-113/90/101 ...-PeCB	27.29	J C	1.0000	1.0010	+1.6	4.25E+04	0.65	0.90	0.349	1.37E+03	0.112
PCB-83 22'33'5-PeCB	NotFnd		1.0154	-		0.00E+00		0.70	ND	1.37E+03	0.144
PCB-99 22'44'5-PeCB	NotFnd		1.0187	-		0.00E+00		0.82	ND	1.37E+03	0.122
PCB-112 233'56-PeCB	NotFnd		1.0224	-		0.00E+00		1.04	ND	1.37E+03	0.0964
PCB-108/119/86/97/125...-PeCB	NotFnd	C	1.0348	-		0.00E+00		0.90	ND	1.37E+03	0.111
PCB-117 234'56-PeCB	NotFnd		1.0539	-		0.00E+00		0.95	ND	1.37E+03	0.105
PCB-116/85 23456/22'344'-PeCB	NotFnd	C	1.0565	-		0.00E+00		0.94	ND	1.37E+03	0.107
PCB-110 233'4'6-PeCB	28.96	J	1.0620	1.0620	0	4.19E+04	0.70	0.90	0.344	1.37E+03	0.112
PCB-115 2344'6-PeCB	NotFnd		1.0644	-		0.00E+00		1.18	ND	1.37E+03	0.0848
PCB-82 22'33'4-PeCB	NotFnd		1.0717	-		0.00E+00		0.67	ND	1.37E+03	0.151
PCB-111 233'55'-PeCB	NotFnd		1.0843	-		0.00E+00		1.10	ND	1.37E+03	0.0908
PCB-120 23'455'-PeCB	NotFnd		1.0986	-		0.00E+00		1.11	ND	1.37E+03	0.09
PCB-107/124 ...-PeCB	NotFnd	C	0.9910	-		0.00E+00		1.01	ND	1.37E+03	0.0992
PCB-109 233'46-PeCB	NotFnd		0.9975	-		0.00E+00		1.06	ND	1.37E+03	0.0947
PCB-106 233'45-PeCB	NotFnd		1.0038	-		0.00E+00		0.99	ND	1.37E+03	0.101
PCB-122 233'4'5'-PeCB	NotFnd		1.0099	-		0.00E+00		0.94	ND	1.37E+03	0.111
PCB-127 33'455'-PeCB	NotFnd		1.0393	-		0.00E+00		1.03	ND	1.37E+03	0.0993
PCB-155 22'44'66'-HxCB	NotFnd		1.0008	-		0.00E+00		1.12	ND	1.32E+03	0.0775
PCB-152 22'3566'-HxCB	NotFnd		1.0068	-		0.00E+00		1.05	ND	1.32E+03	0.0832
PCB-150 22'34'66'-HxCB	NotFnd		1.0121	-		0.00E+00		1.04	ND	1.32E+03	0.0833
PCB-136 22'33'66'-HxCB	NotFnd		1.0233	-		0.00E+00		0.97	ND	1.32E+03	0.0901
PCB-145 22'3466'-HxCB	NotFnd		1.0326	-		0.00E+00		0.98	ND	1.32E+03	0.0884
PCB-148 22'34'56'-HxCB	NotFnd		1.0801	-		0.00E+00		1.05	ND	1.32E+03	0.112
PCB-151/135 ...-HxCB	NotFnd	C	1.0993	-		0.00E+00		1.02	ND	1.32E+03	0.116
PCB-154 22'44'56'-HxCB	NotFnd		1.1066	-		0.00E+00		1.13	ND	1.32E+03	0.104
PCB-144 22'345'6-HxCB	NotFnd		1.1162	-		0.00E+00		1.02	ND	1.32E+03	0.115
PCB-147/149 ...-HxCB	30.51	J C	1.1274	1.1273	-0.2	5.04E+04	1.40	1.03	0.436	1.32E+03	0.114
PCB-134 22'33'56-HxCB	NotFnd		1.1335	-		0.00E+00		0.80	ND	1.32E+03	0.147
PCB-143 22'3456'-HxCB	NotFnd		1.1364	-		0.00E+00		1.04	ND	1.32E+03	0.113
PCB-139/140 ...-HxCB	NotFnd	C	1.1460	-		0.00E+00		1.06	ND	1.32E+03	0.111
PCB-131 22'33'46-HxCB	NotFnd		1.1522	-		0.00E+00		0.92	ND	1.32E+03	0.127
PCB-142 22'3456-HxCB	NotFnd		1.1570	-		0.00E+00		0.93	ND	1.32E+03	0.126
PCB-132 22'33'46'-HxCB	NotFnd		1.1665	-		0.00E+00		0.95	ND	1.32E+03	0.124
PCB-133 22'33'55'-HxCB	NotFnd		1.1825	-		0.00E+00		1.00	ND	1.32E+03	0.117
PCB-165 233'55'6-HxCB	NotFnd		0.9486	-		0.00E+00		1.21	ND	1.32E+03	0.097
PCB-146 22'34'55'-HxCB	NotFnd		0.9548	-		0.00E+00		1.08	ND	1.32E+03	0.109
PCB-161 233'45'6-HxCB	NotFnd		0.9581	-		0.00E+00		1.36	ND	1.32E+03	0.0866
PCB-153/168 ...-HxCB	33.07	J C	0.9705	0.9698	-1.4	5.16E+04	1.37	1.26	0.366	1.32E+03	0.0933

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	NotFnd		0.9747	-		0.00E+00		0.98	ND	1.32E+03	0.12
PCB-130 22'33'45'-HxCB	NotFnd		0.9848	-		0.00E+00		0.88	ND	1.32E+03	0.134
PCB-137 22'344'5'-HxCB	NotFnd		0.9903	-		0.00E+00		1.01	ND	1.32E+03	0.116
PCB-164 233'4'5'6'-HxCB	NotFnd		0.9931	-		0.00E+00		1.33	ND	1.32E+03	0.0887
PCB-163/138/129 ...-HxCB	34.13	J C	1.0013	1.0008	-1.0	4.70E+04	1.08	1.03	0.409	1.32E+03	0.114
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.34	ND	1.32E+03	0.0876
PCB-158 233'44'6'-HxCB	NotFnd		1.0104	-		0.00E+00		1.38	ND	1.32E+03	0.0854
PCB-128/166 ...-HxCB	NotFnd	C	0.9599	-		0.00E+00		0.90	ND	1.20E+03	0.118
PCB-159 233'455'-HxCB	NotFnd		0.9830	-		0.00E+00		1.08	ND	1.20E+03	0.0981
PCB-162 233'4'55'-HxCB	NotFnd		0.9897	-		0.00E+00		1.10	ND	1.20E+03	0.0966
PCB-188 22'34'566'-HpCB	NotFnd		1.0007	-		0.00E+00		0.97	ND	1.42E+03	0.0807
PCB-179 22'33'566'-HpCB	NotFnd		1.0096	-		0.00E+00		0.89	ND	1.42E+03	0.0884
PCB-184 22'344'66'-HpCB	NotFnd		1.0236	-		0.00E+00		0.88	ND	1.42E+03	0.0894
PCB-176 22'33'466'-HpCB	NotFnd		1.0329	-		0.00E+00		0.97	ND	1.42E+03	0.081
PCB-186 22'34566'-HpCB	NotFnd		1.0449	-		0.00E+00		0.91	ND	1.42E+03	0.086
PCB-178 22'33'55'6'-HpCB	NotFnd		1.0815	-		0.00E+00		0.68	ND	1.42E+03	0.115
PCB-175 22'33'45'6'-HpCB	NotFnd		1.0983	-		0.00E+00		0.96	ND	1.41E+03	0.149
PCB-187 22'34'55'6'-HpCB	35.28	J	1.1055	1.1057	+0.4	1.77E+04	0.92	1.00	0.178	1.41E+03	0.143
PCB-182 22'344'56'-HpCB	NotFnd		1.1108	-		0.00E+00		1.04	ND	1.41E+03	0.138
PCB-183 22'344'5'6'-HpCB	NotFnd		1.1217	-		0.00E+00		1.00	ND	1.41E+03	0.144
PCB-185 22'3455'6'-HpCB	NotFnd		1.1242	-		0.00E+00		1.03	ND	1.41E+03	0.14
PCB-174 22'33'456'-HpCB	36.00	J	1.1278	1.1282	+0.9	1.72E+04	1.16	0.88	0.199	1.41E+03	0.164
PCB-177 22'33'45'6'-HpCB	NotFnd		1.1394	-		0.00E+00		0.87	ND	1.41E+03	0.165
PCB-181 22'344'56'-HpCB	NotFnd		1.1499	-		0.00E+00		1.00	ND	1.41E+03	0.144
PCB-171/173 ...-HpCB	NotFnd	C	1.1556	-		0.00E+00		0.88	ND	1.41E+03	0.164
PCB-172 22'33'455'-HpCB	NotFnd		0.9006	-		0.00E+00		0.91	ND	1.41E+03	0.157
PCB-192 233'455'6'-HpCB	NotFnd		0.9062	-		0.00E+00		1.17	ND	1.41E+03	0.123
PCB-180/193 ...-HpCB	38.82	J C	0.9129	0.9137	+1.9	2.85E+04	1.06	1.11	0.258	1.41E+03	0.129
PCB-191 233'44'5'6'-HpCB	NotFnd		0.9205	-		0.00E+00		1.22	ND	1.41E+03	0.118
PCB-170 22'33'44'5'-HpCB	NotFnd		0.9385	-		0.00E+00		1.02	ND	1.41E+03	0.158
PCB-190 233'44'56-HpCB	NotFnd		0.9489	-		0.00E+00		1.36	ND	1.41E+03	0.118
PCB-202 22'33'55'66'-OcCB	NotFnd		1.0006	-		0.00E+00		0.83	ND	9.73E+02	0.0846
PCB-201 22'33'45'66'-OcCB	NotFnd		1.0219	-		0.00E+00		0.93	ND	9.73E+02	0.0757
PCB-204 22'344'566'-OcCB	NotFnd		1.0375	-		0.00E+00		0.87	ND	9.73E+02	0.081
PCB-197 22'33'44'66'-OcCB	NotFnd		1.0428	-		0.00E+00		1.00	ND	9.73E+02	0.0704
PCB-200 22'33'4566'-OcCB	NotFnd		1.0453	-		0.00E+00		0.89	ND	9.73E+02	0.0792
PCB-198/199 ...-OcCB	NotFnd	C	1.1098	-		0.00E+00		0.67	ND	9.73E+02	0.105
PCB-196 22'33'44'56'-OcCB	NotFnd		1.1254	-		0.00E+00		0.70	ND	9.73E+02	0.101
PCB-203 22'344'55'6'-OcCB	NotFnd		1.1300	-		0.00E+00		0.72	ND	9.73E+02	0.098
PCB-195 22'33'44'56-OcCB	NotFnd		0.9473	-		0.00E+00		0.83	ND	1.10E+03	0.163
PCB-194 22'33'44'55'-OcCB	NotFnd		0.9916	-		0.00E+00		0.91	ND	1.10E+03	0.149
PCB-205 233'44'55'6'-OcCB	NotFnd		1.0004	-		0.00E+00		1.08	ND	1.10E+03	0.125
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		0.99	ND	1.59E+03	0.173
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0191	-		0.00E+00		1.03	ND	1.59E+03	0.166
PCB-206 22'33'44'55'6'-NoCB	NotFnd		1.0004	-		0.00E+00		0.83	ND	1.59E+03	0.251

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Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 40

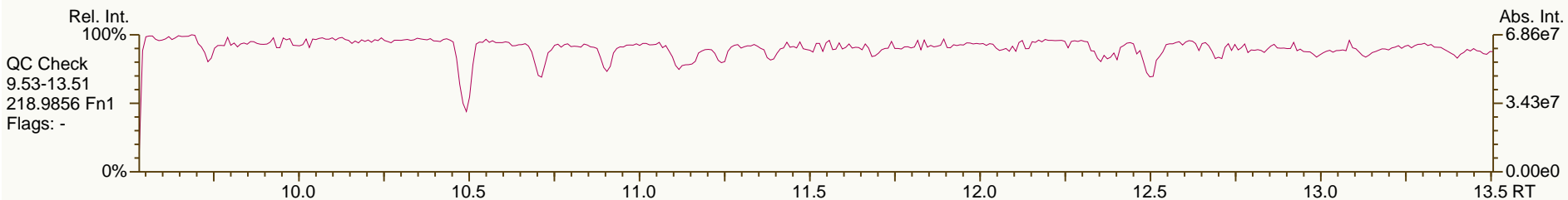
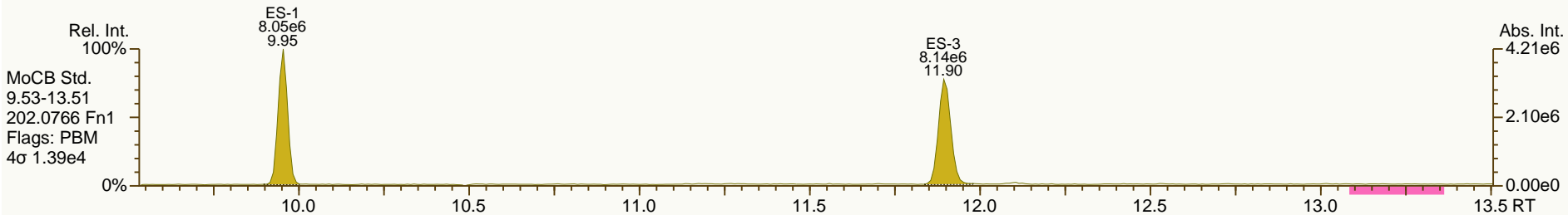
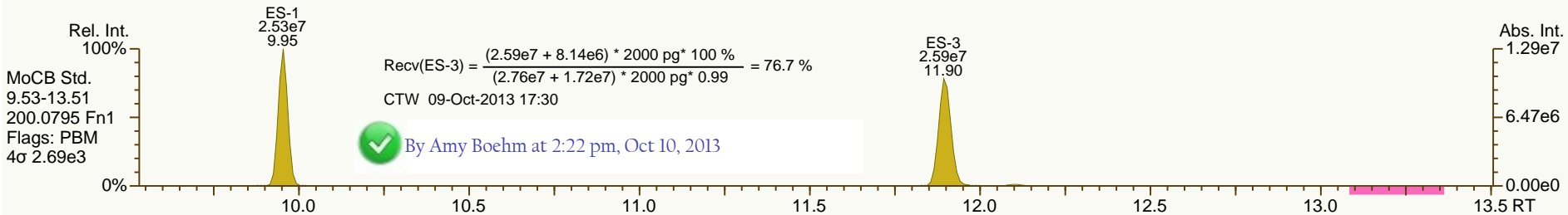
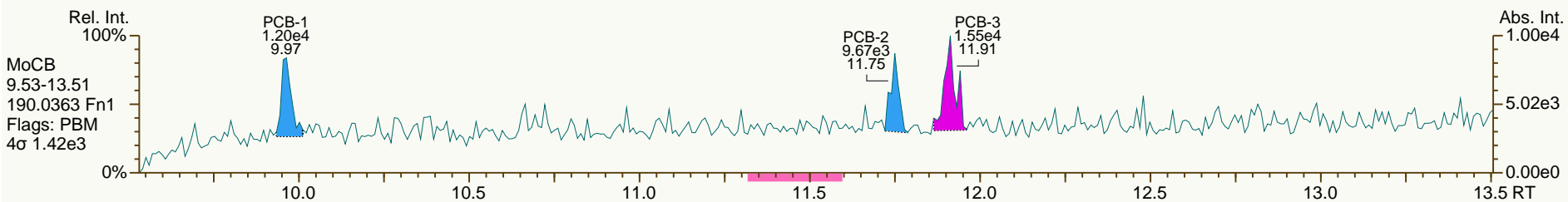
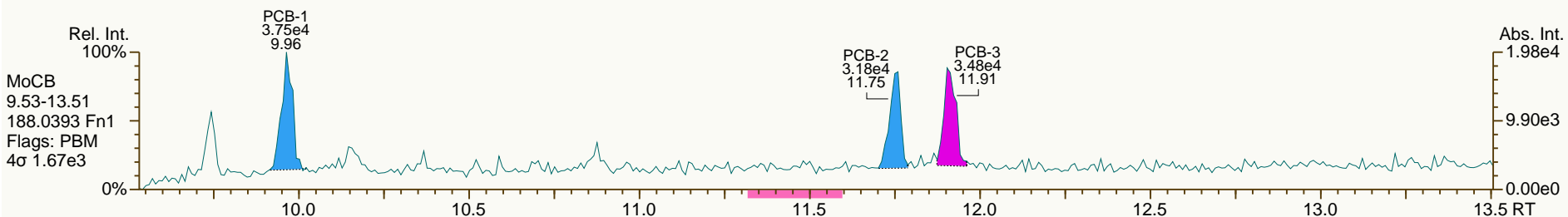
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SGS-AP ID: MB1_11364_PCB_SDS
 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 40

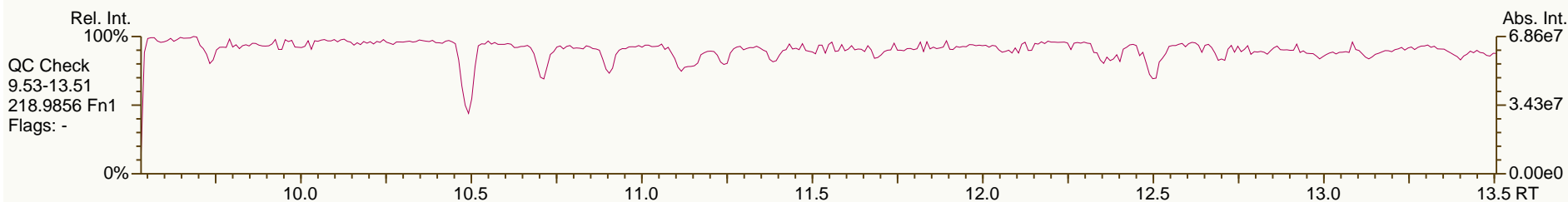
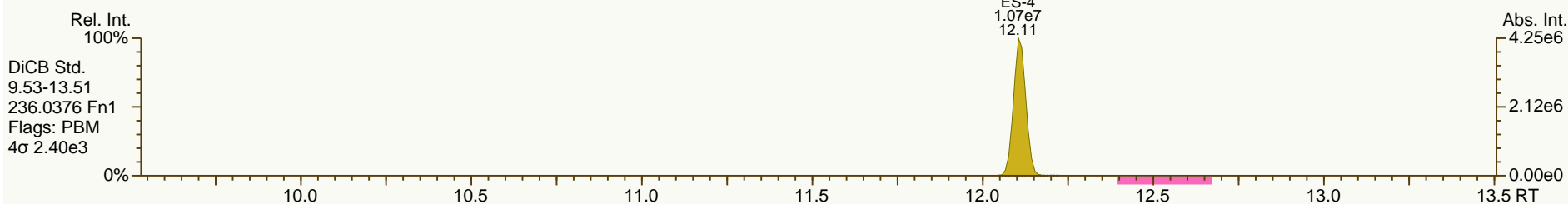
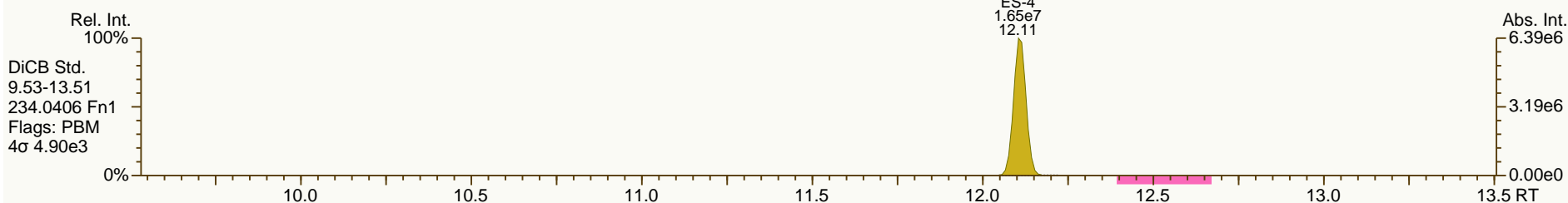
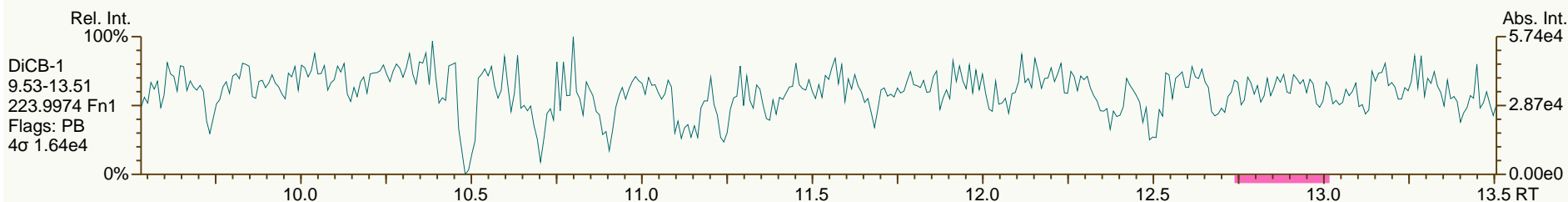
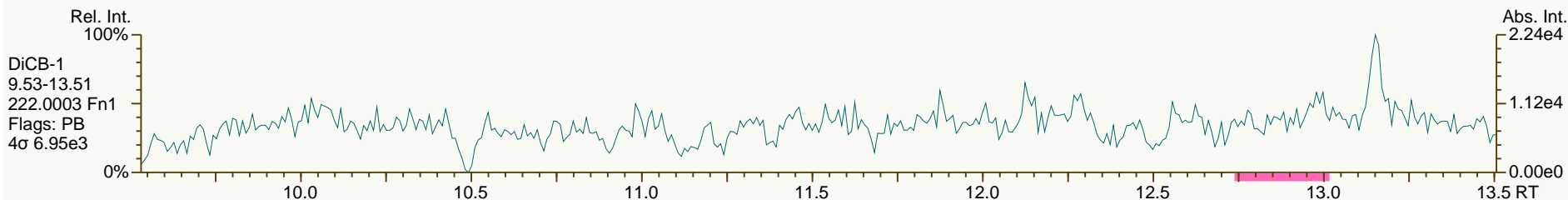
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SGS-AP ID: MB1_11364_PCB_SDS
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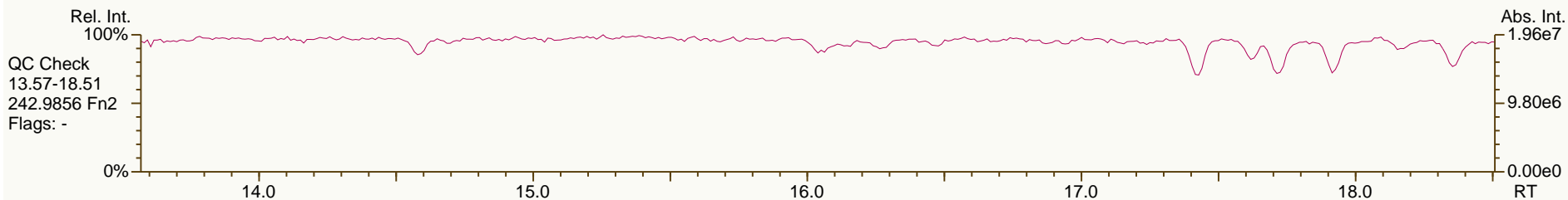
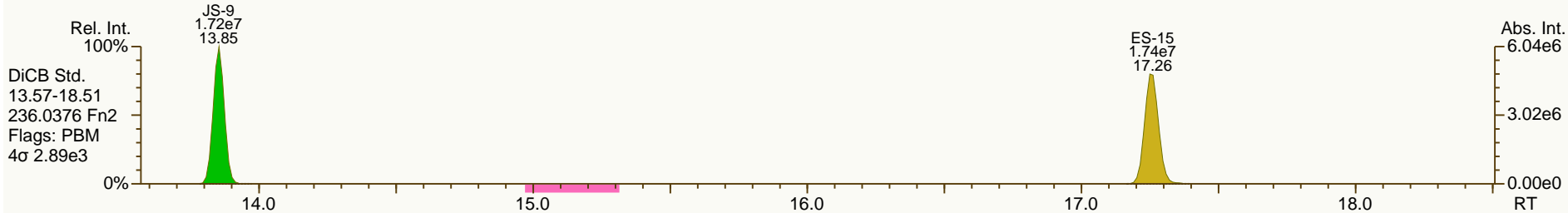
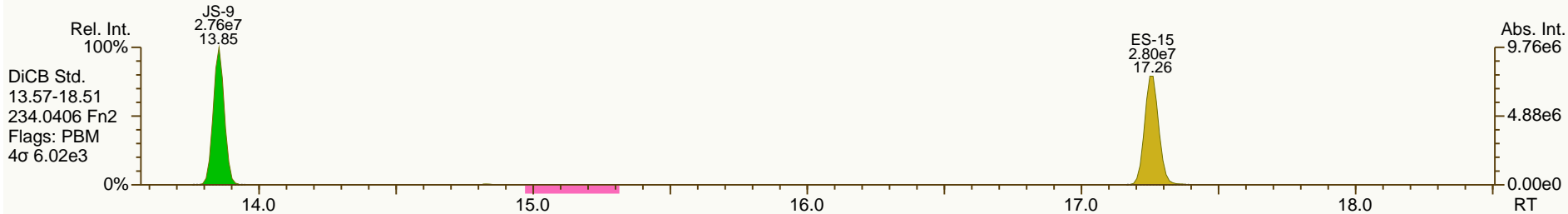
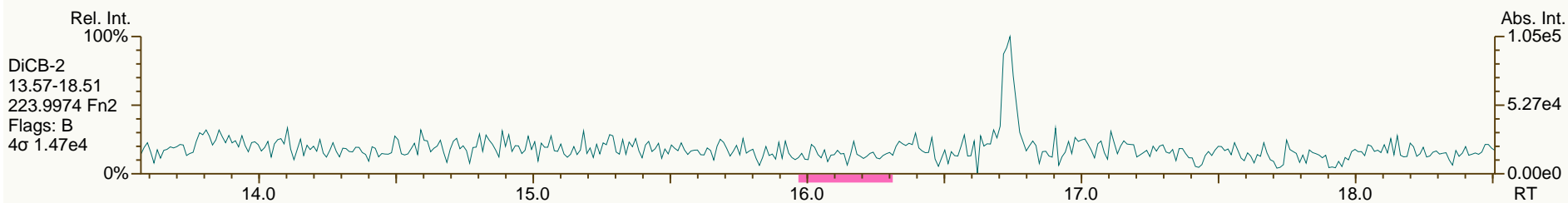
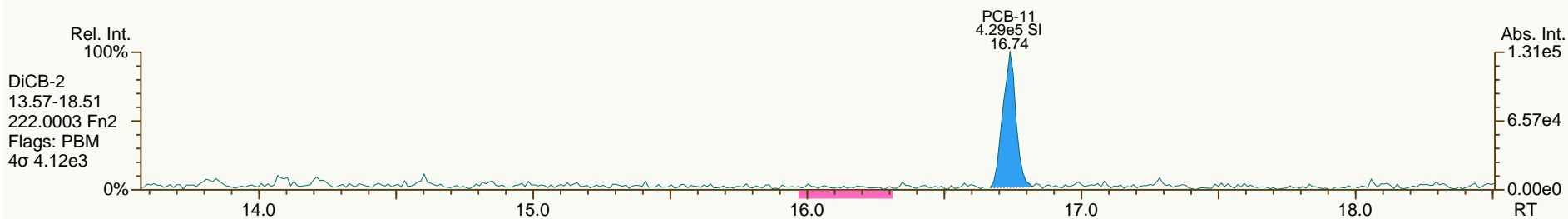
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User: CTW Datafile: 131002S17



SGS-AP ID: MB1_11364_PCB_SDS
Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 40

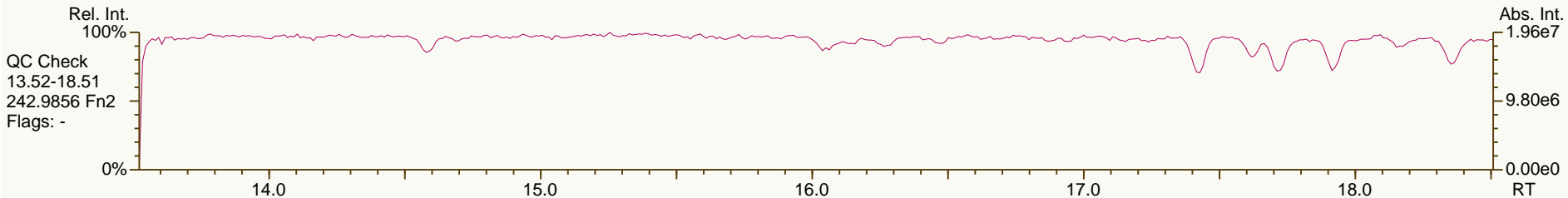
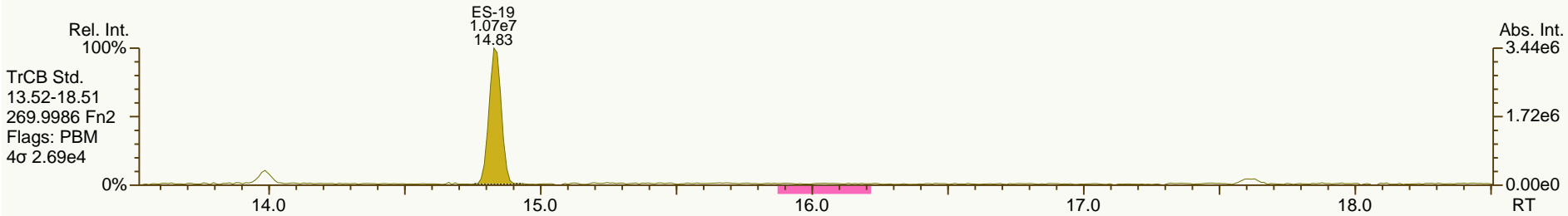
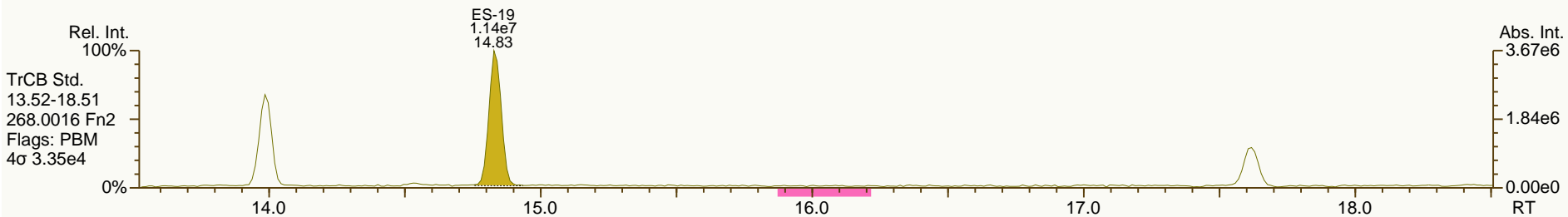
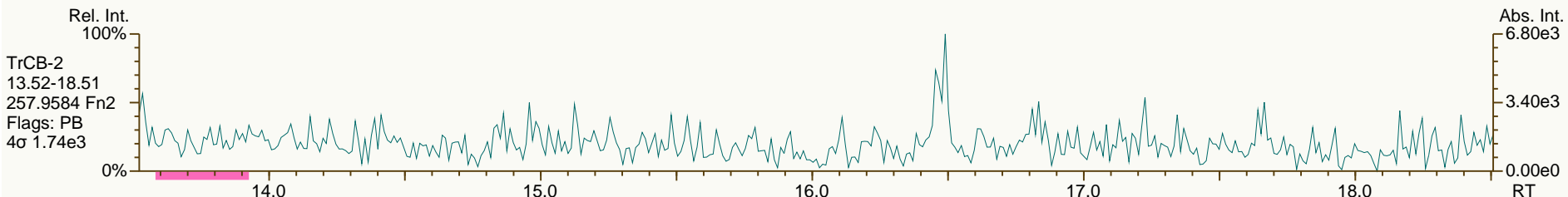
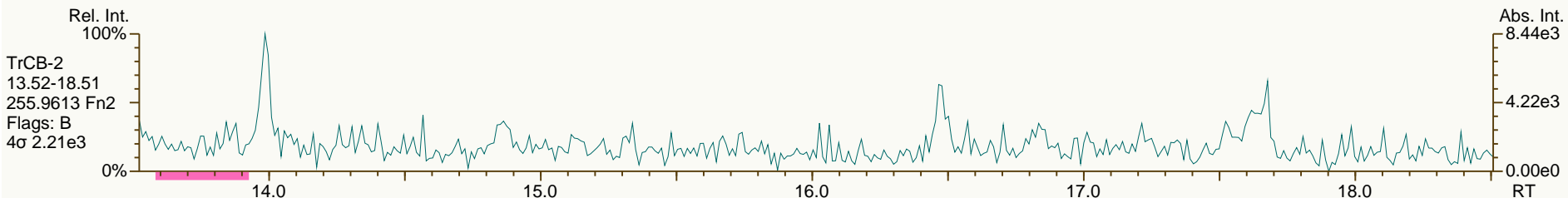
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SGS-AP ID: MB1_11364_PCB_SDS
 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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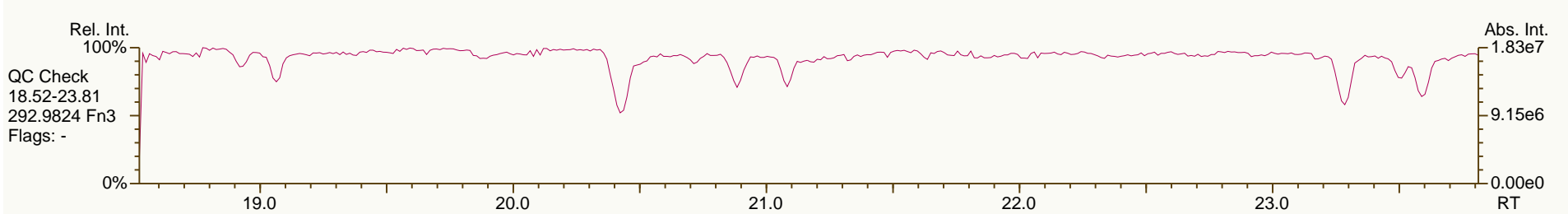
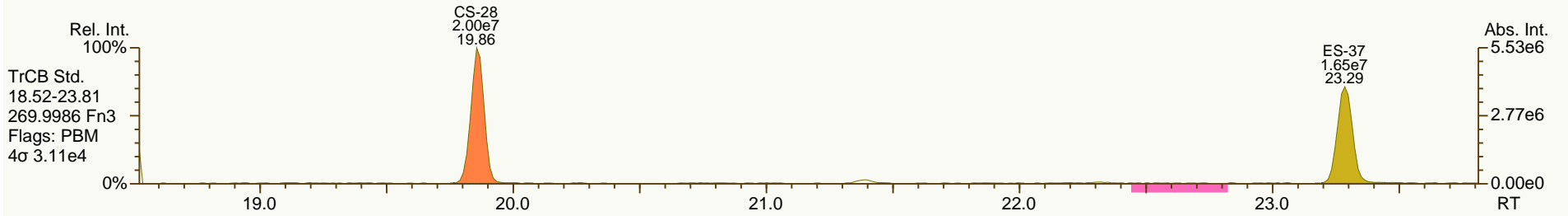
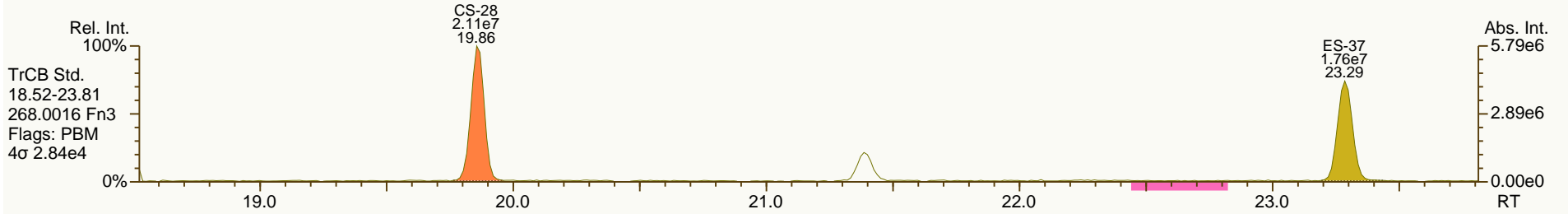
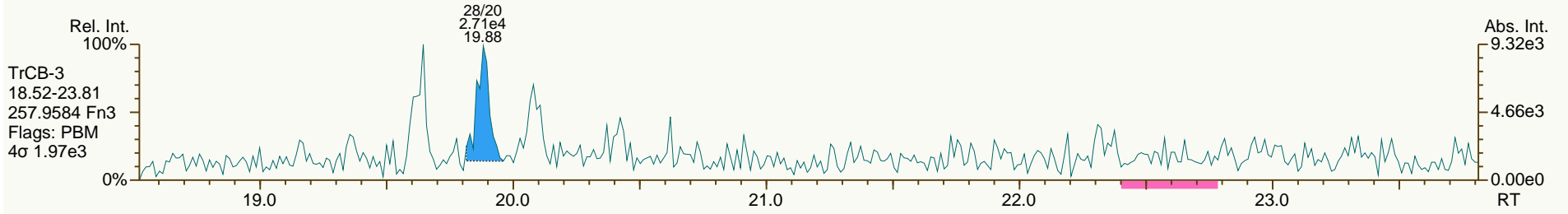
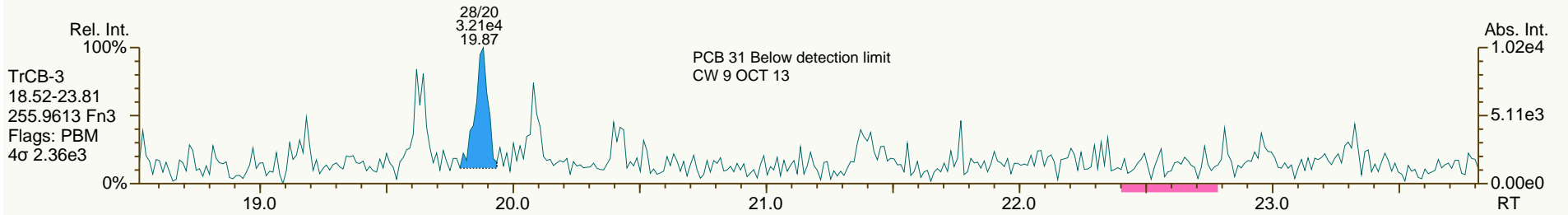
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SGS-AP ID: MB1_11364_PCB_SDS
 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 40

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SGS-AP ID: MB1_11364_PCB_SDS
 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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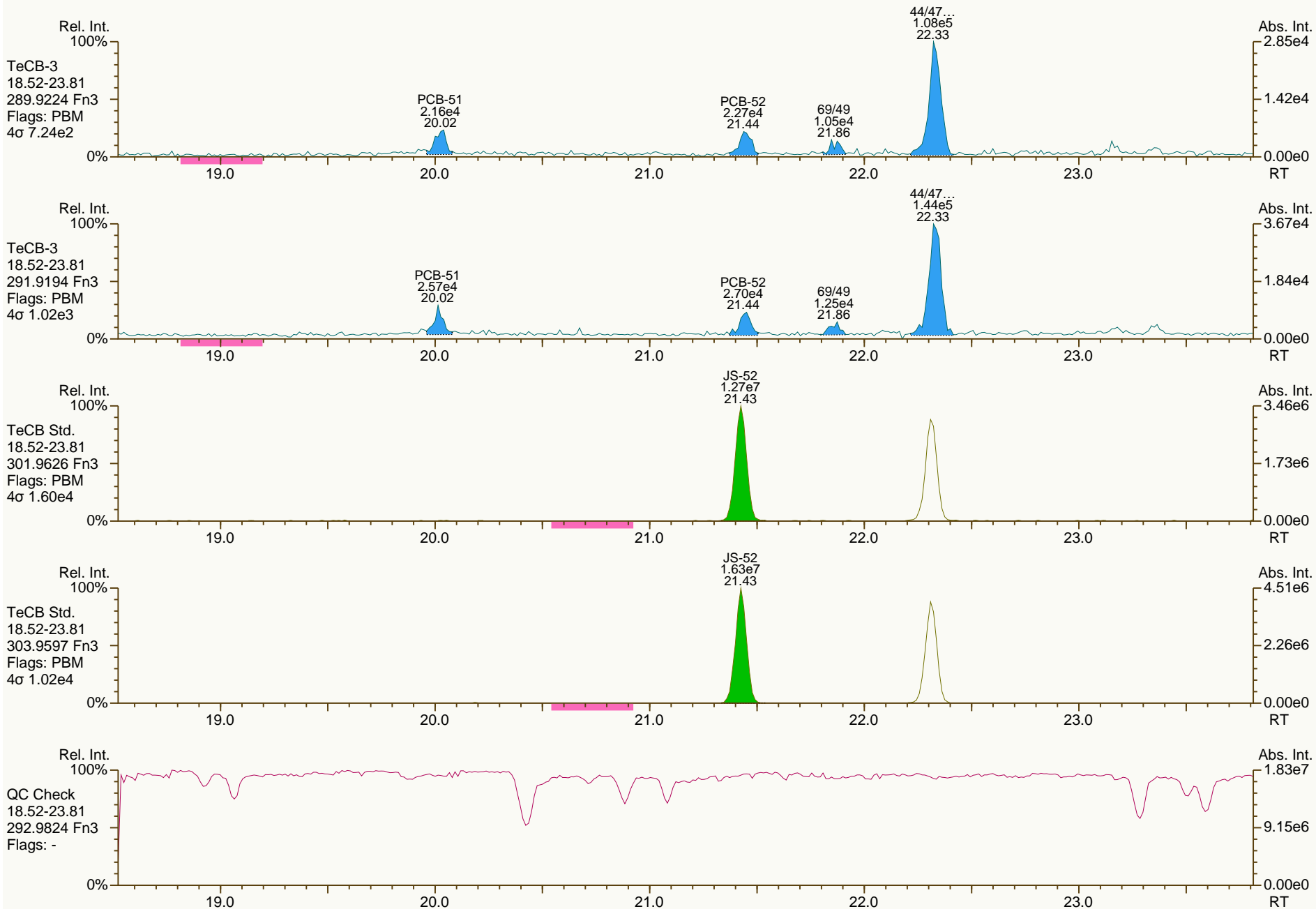
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 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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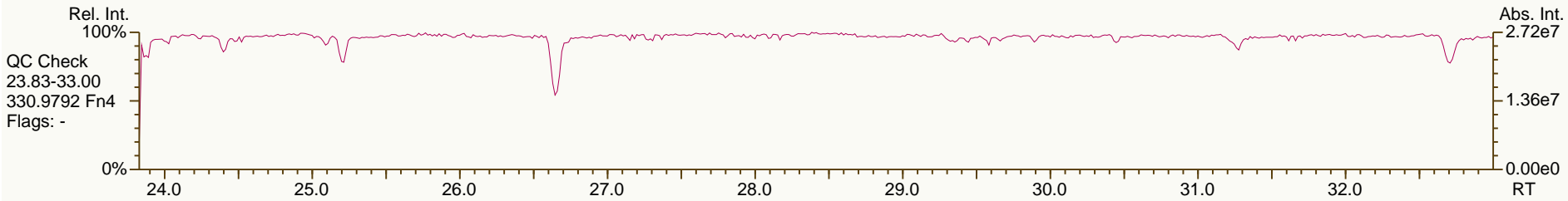
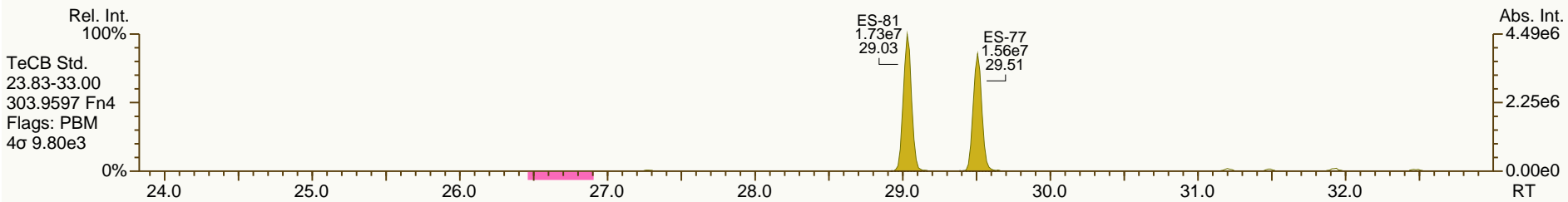
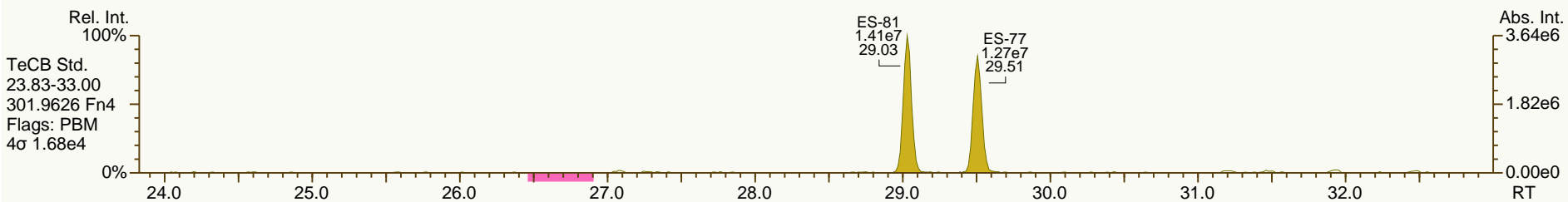
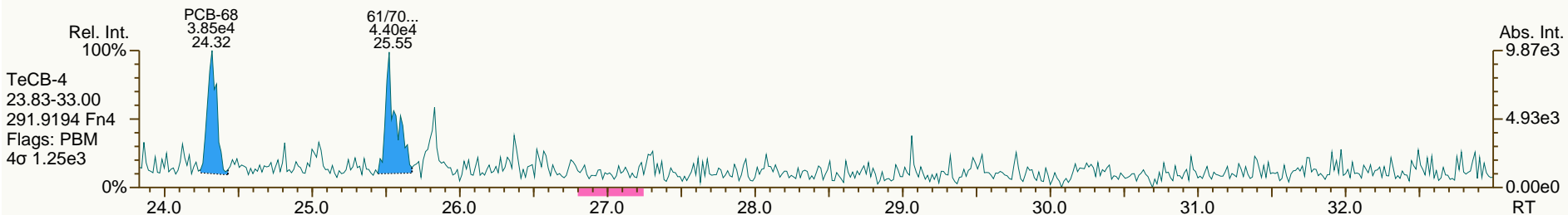
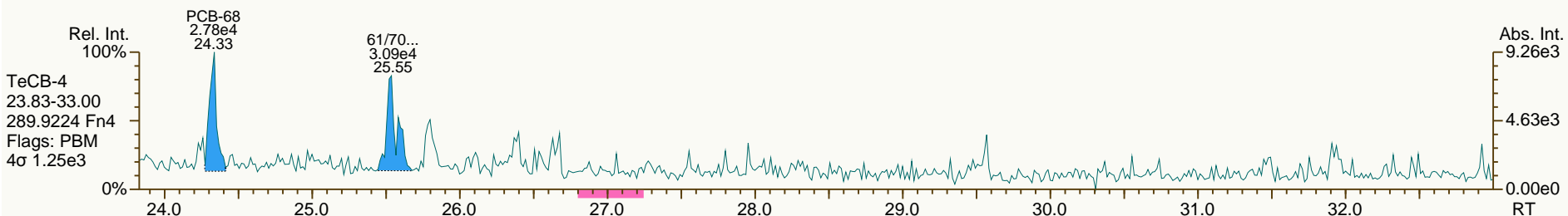
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 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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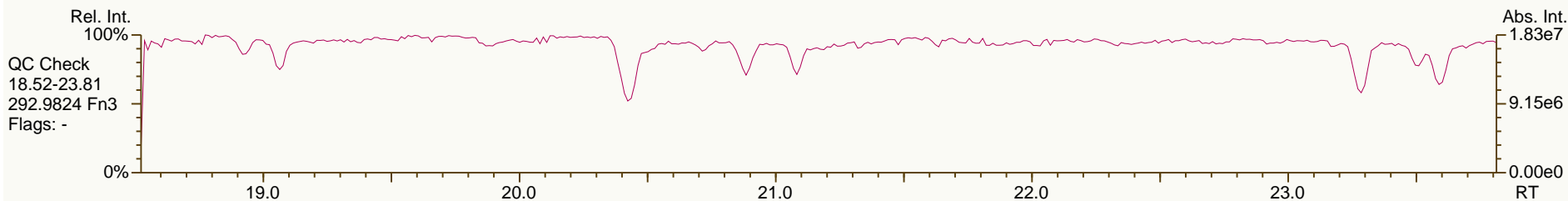
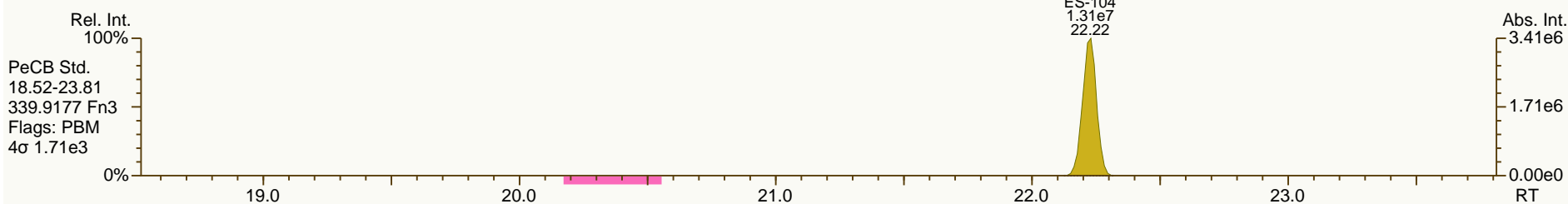
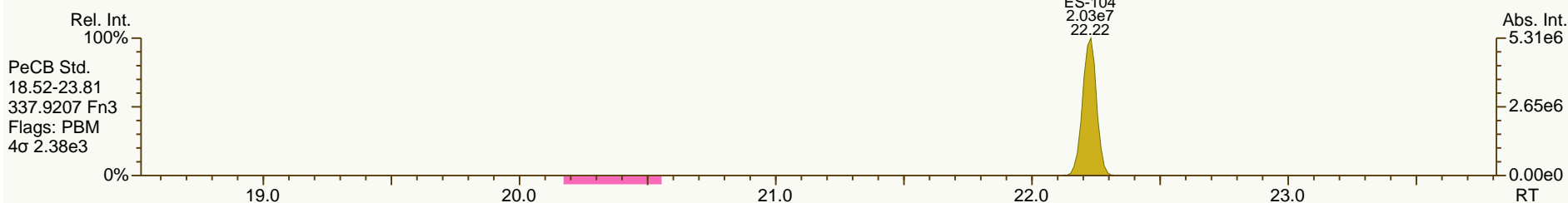
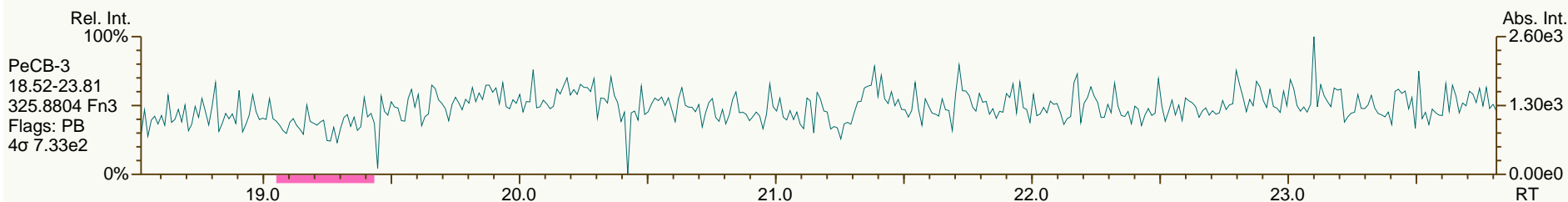
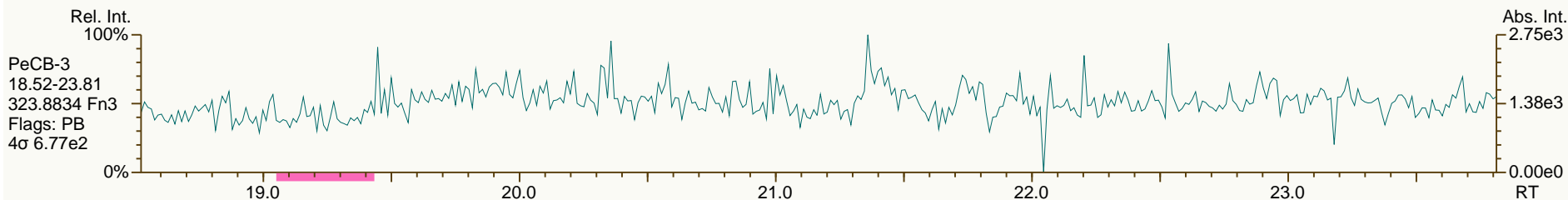
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SGS-AP ID: MB1_11364_PCB_SDS
Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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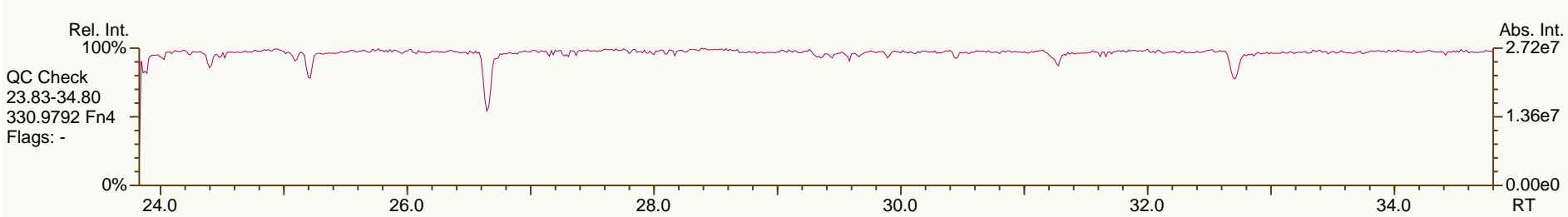
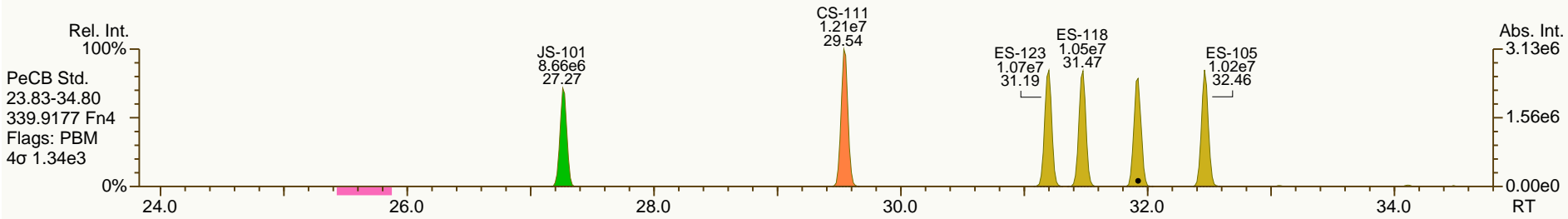
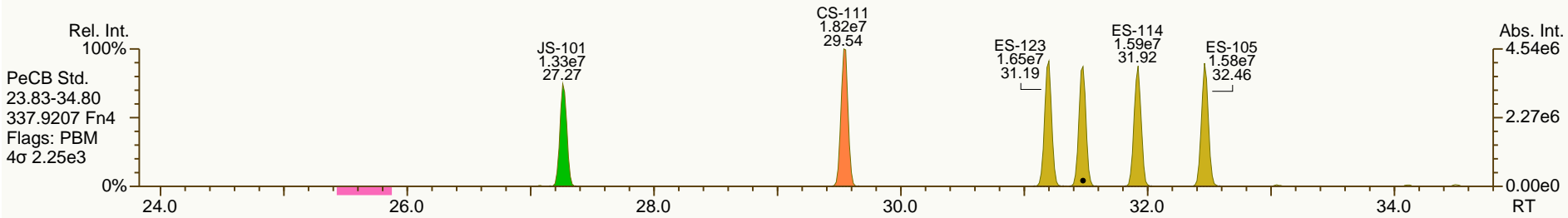
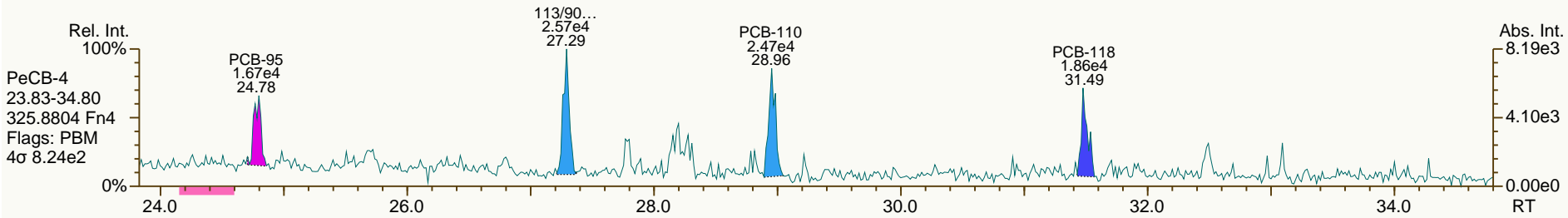
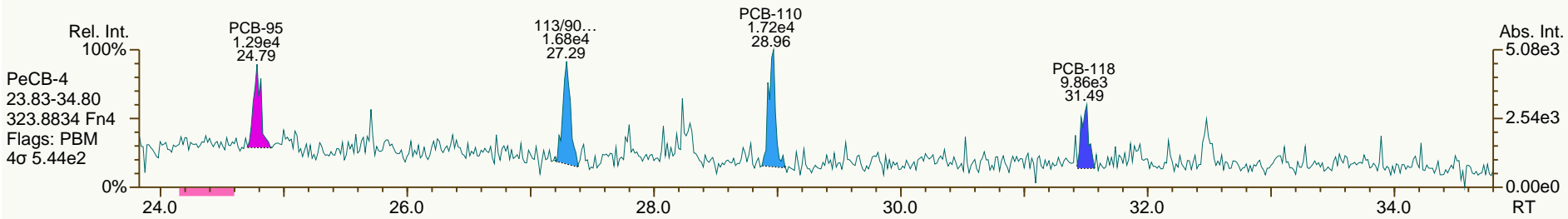
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SGS-AP ID: MB1_11364_PCB_SDS
 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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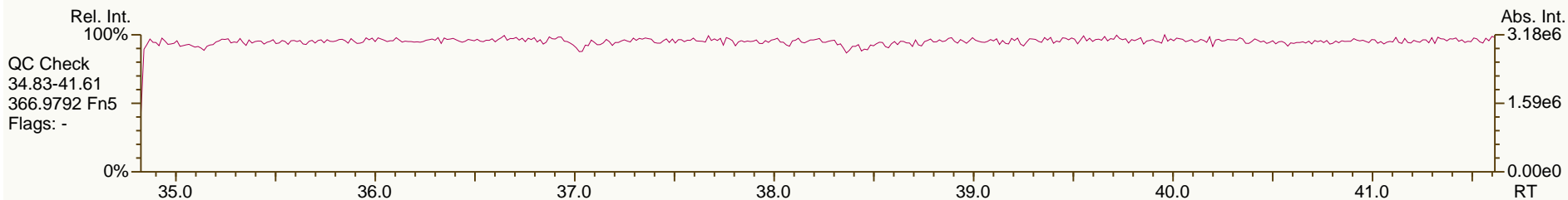
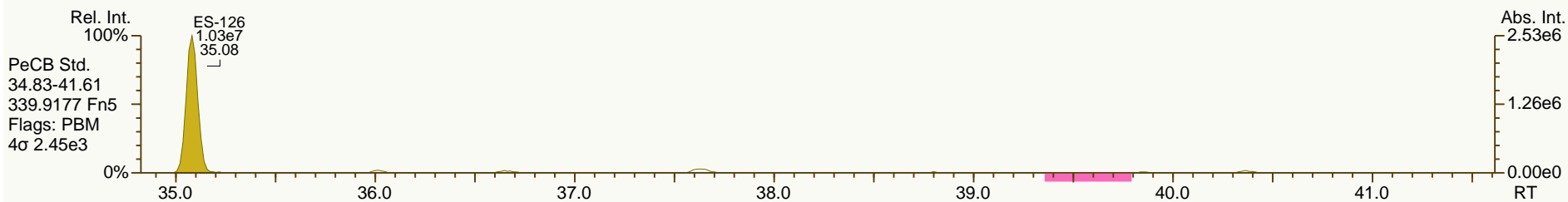
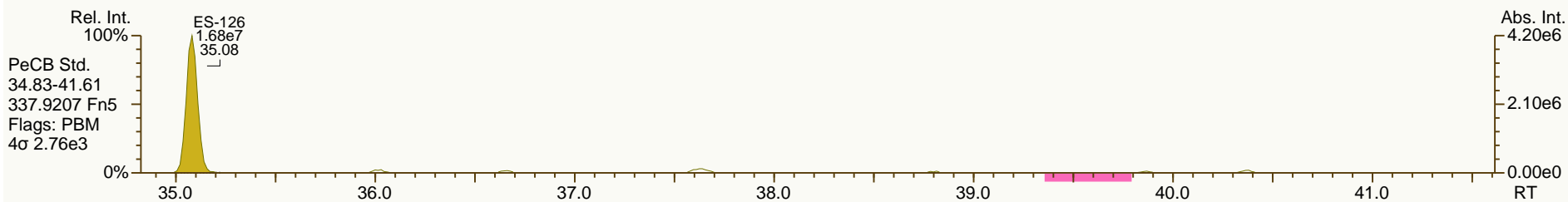
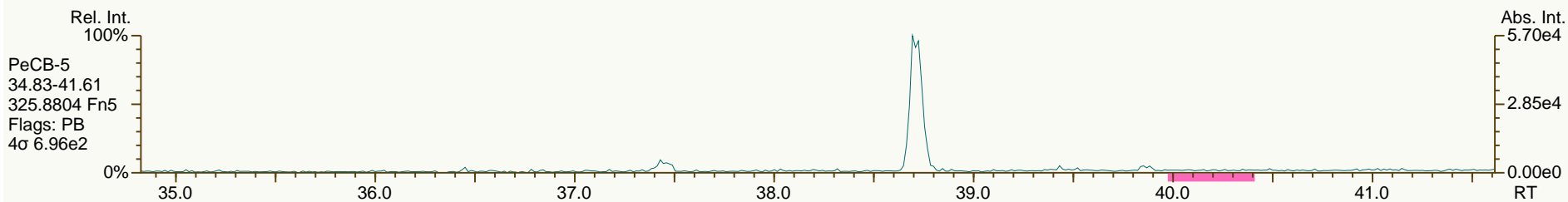
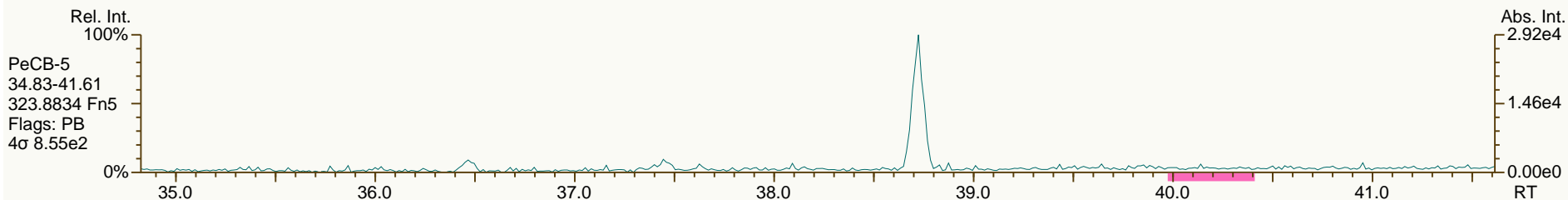
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SGS-AP ID: MB1_11364_PCB_SDS
Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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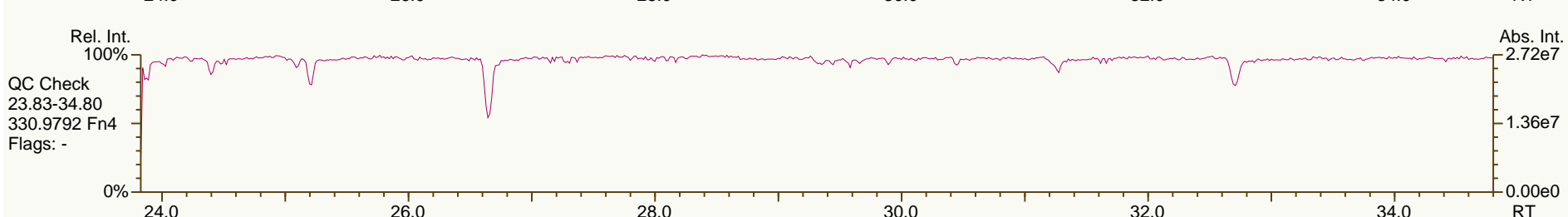
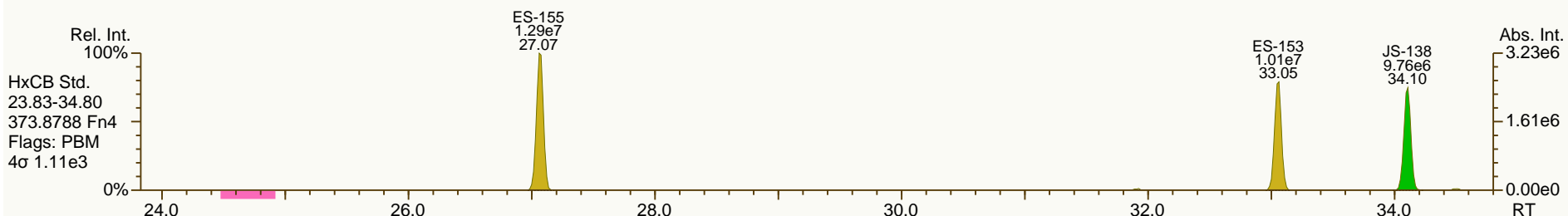
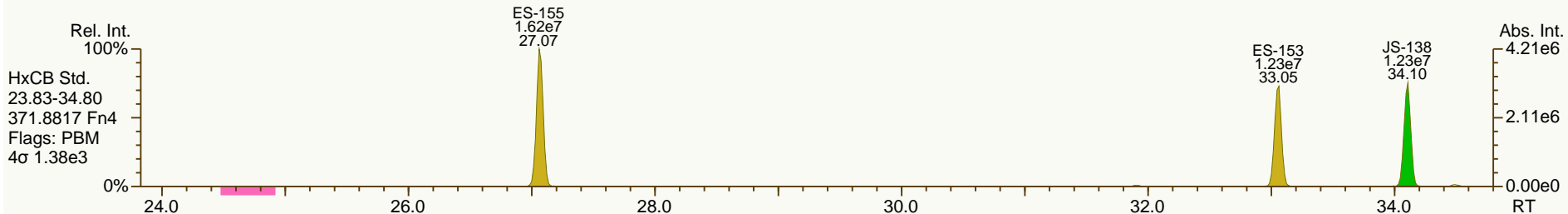
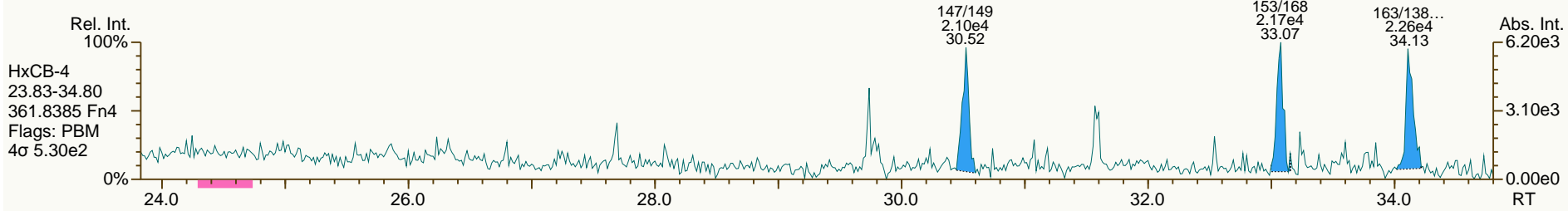
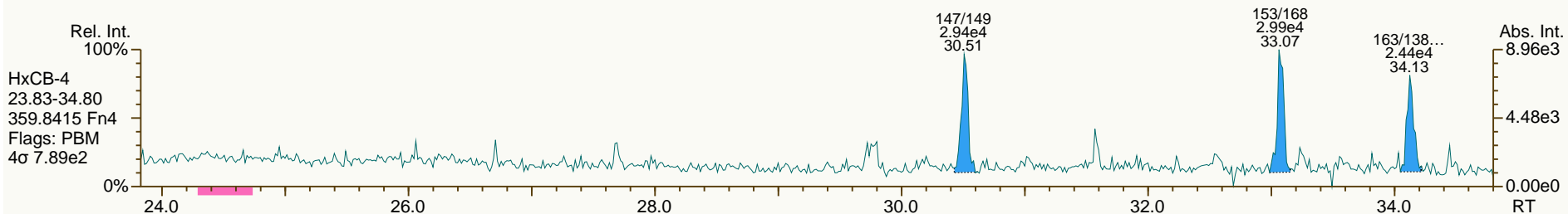
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SGS-AP ID: MB1_11364_PCB_SDS
 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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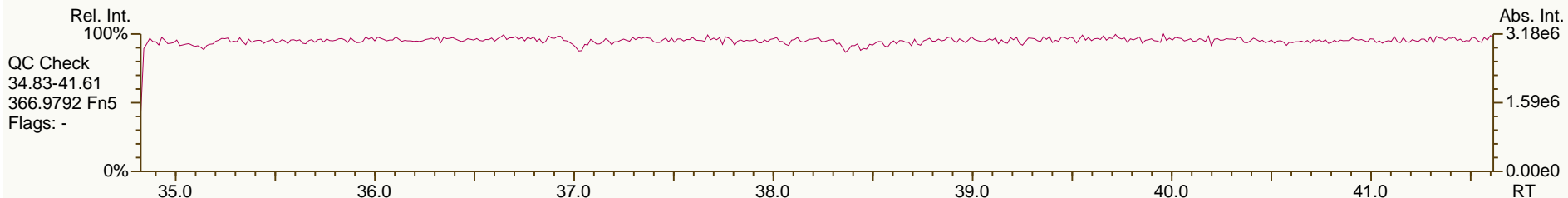
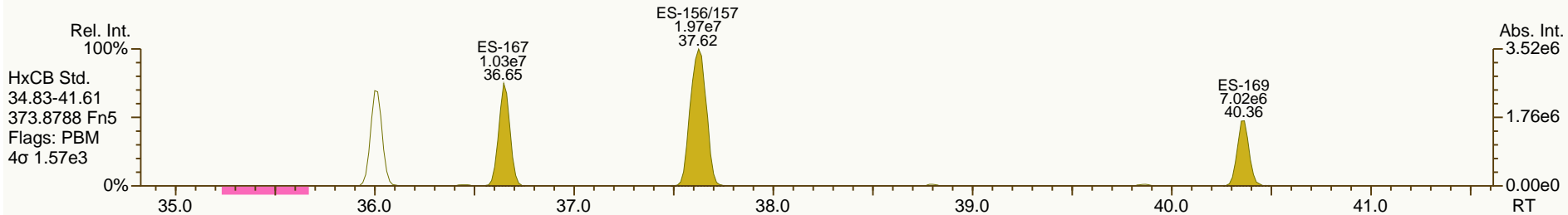
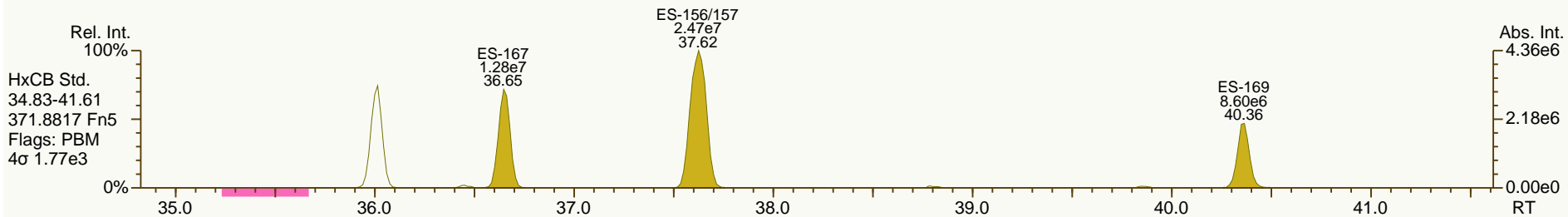
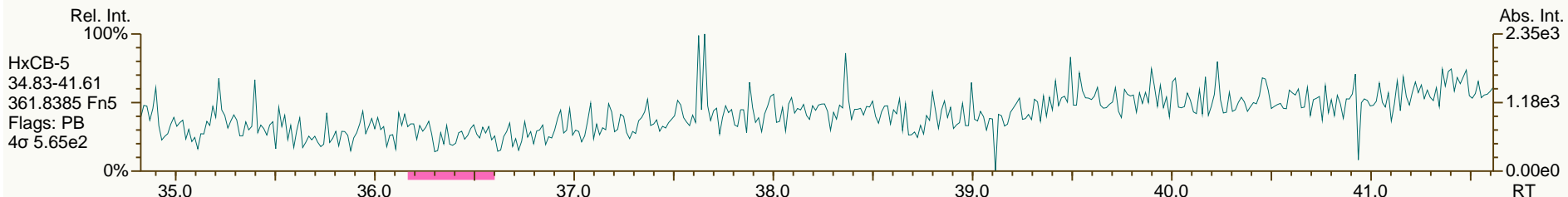
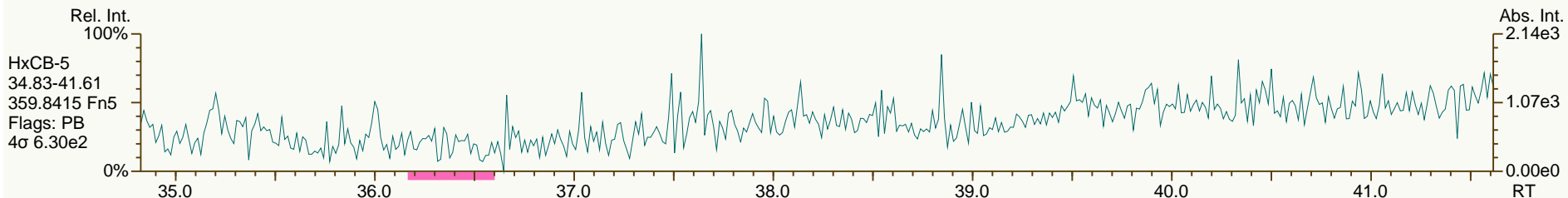
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SGS-AP ID: MB1_11364_PCB_SDS
 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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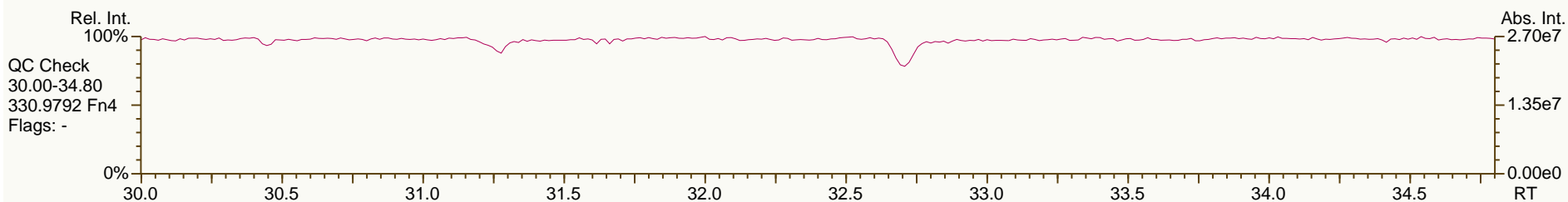
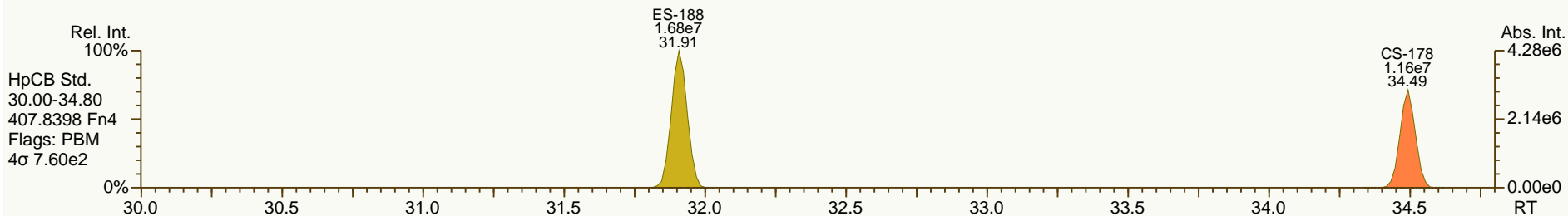
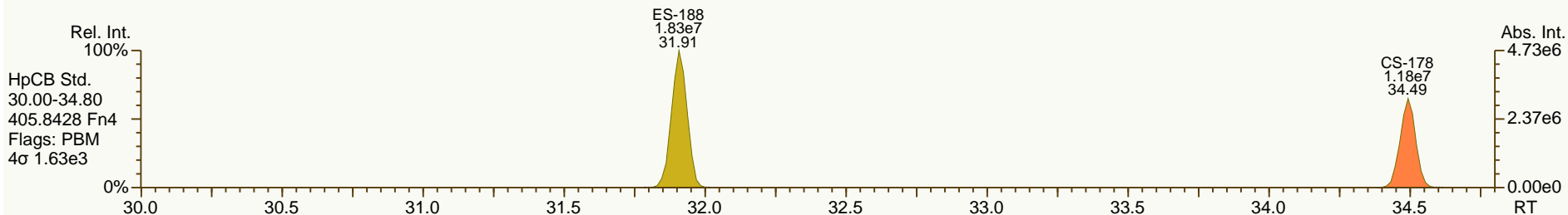
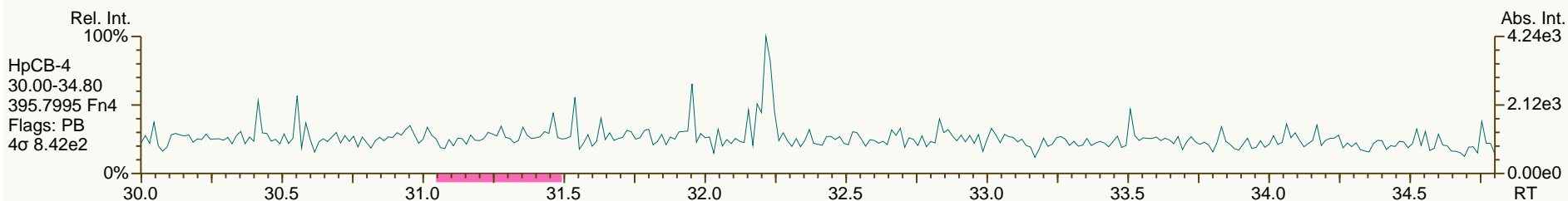
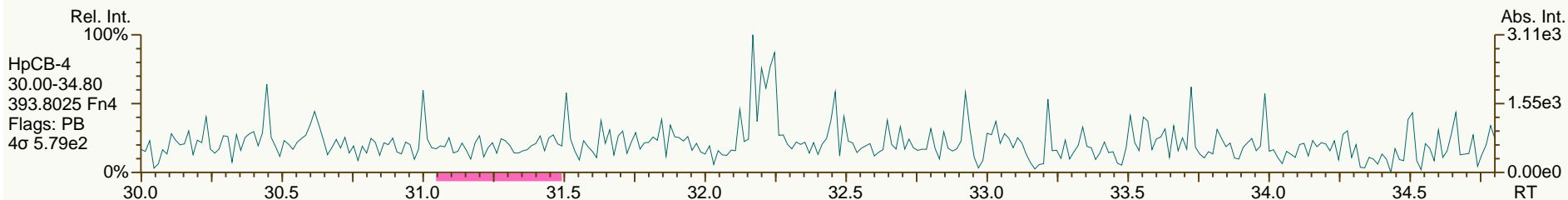
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Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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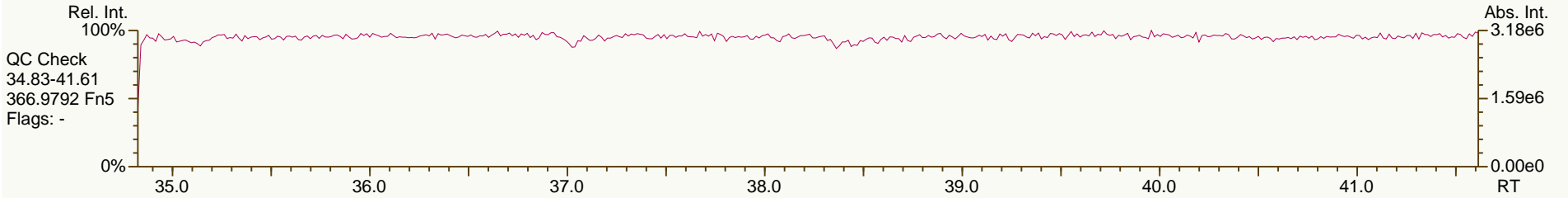
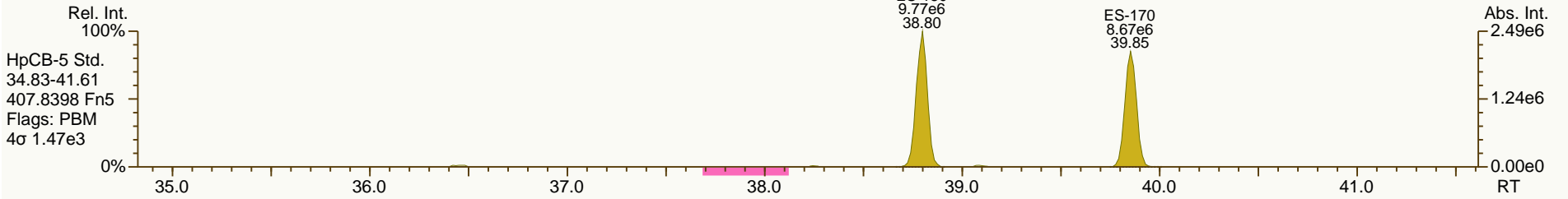
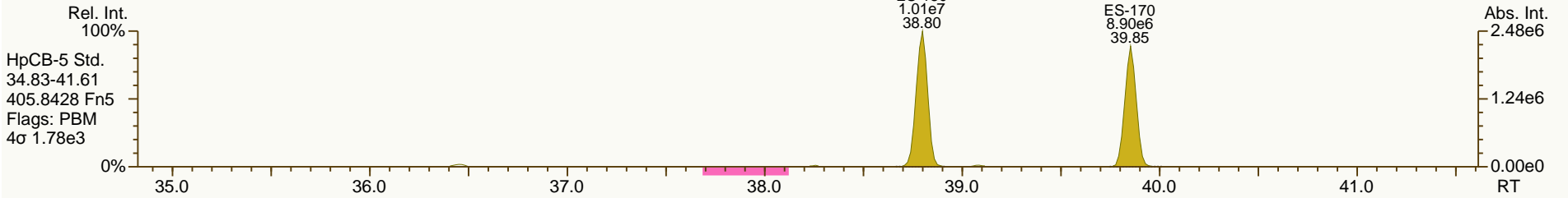
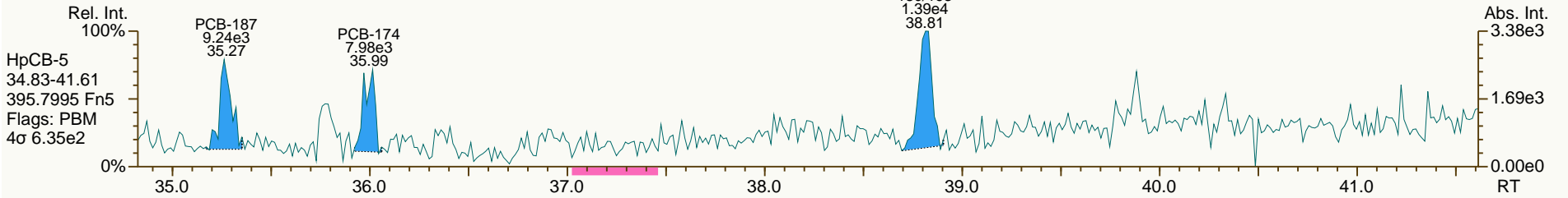
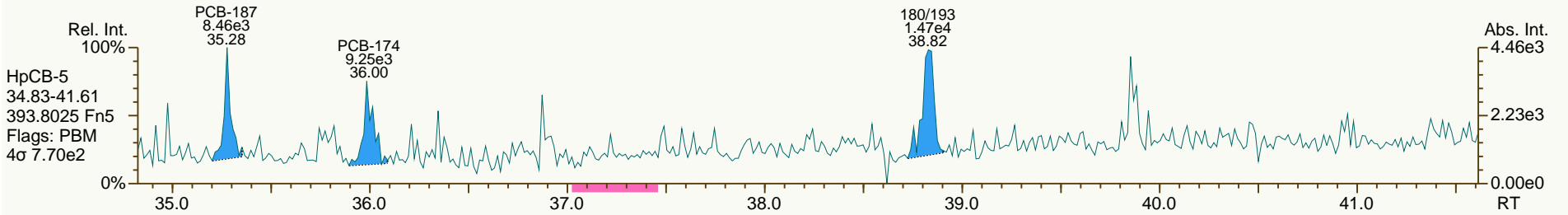
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SGS-AP ID: MB1_11364_PCB_SDS
 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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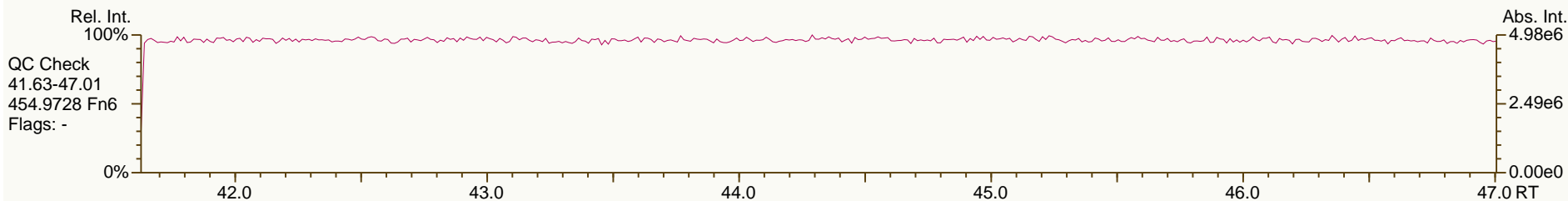
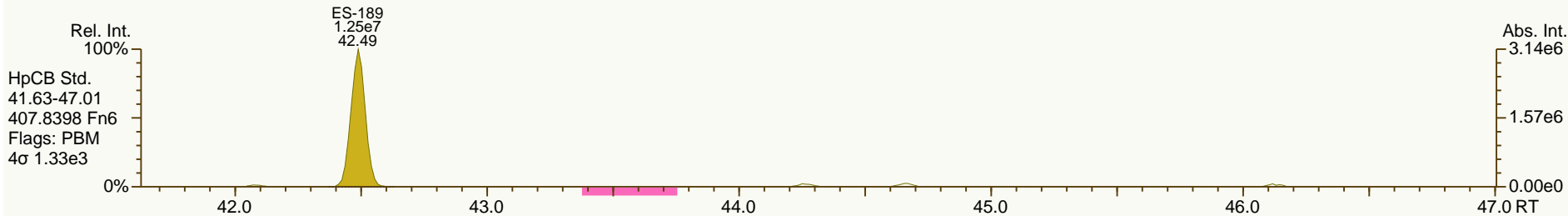
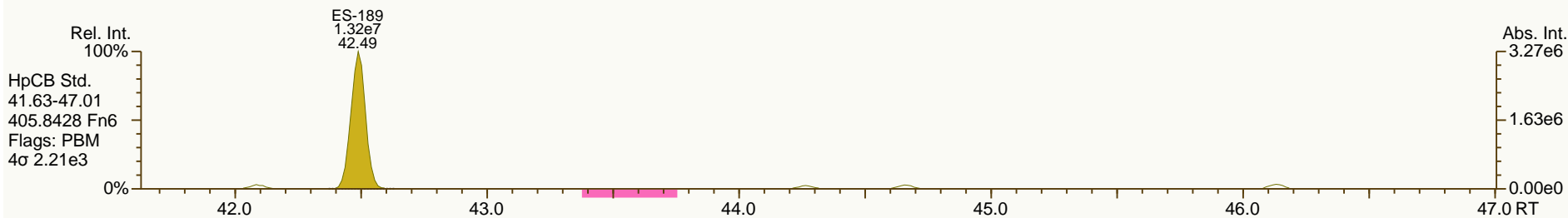
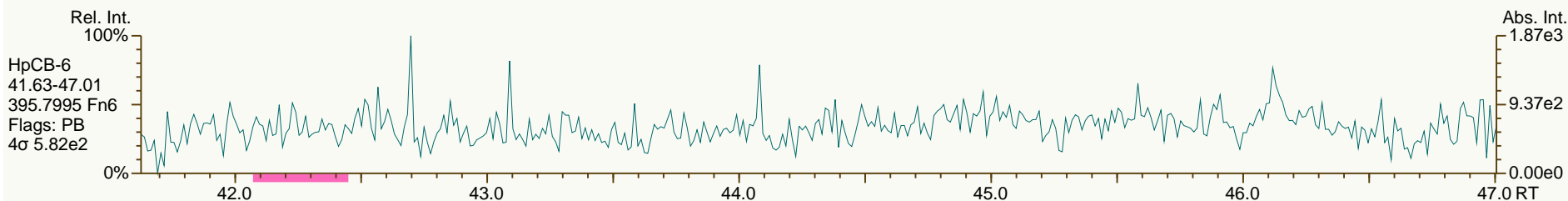
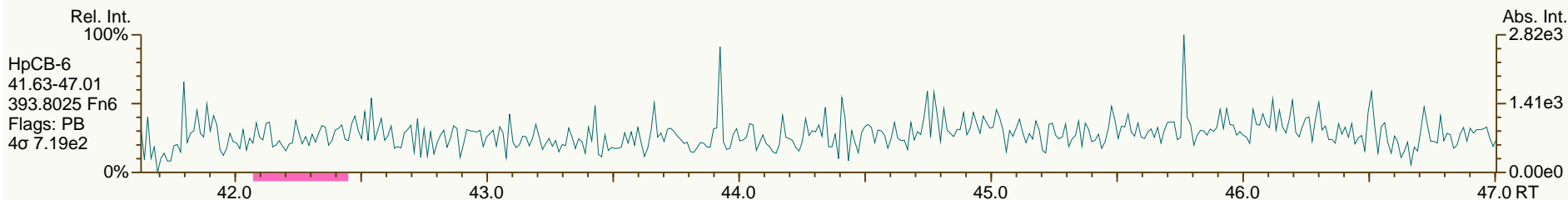
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Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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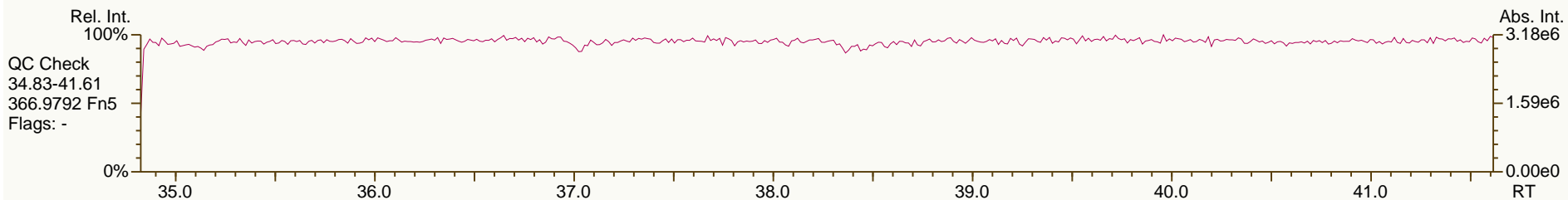
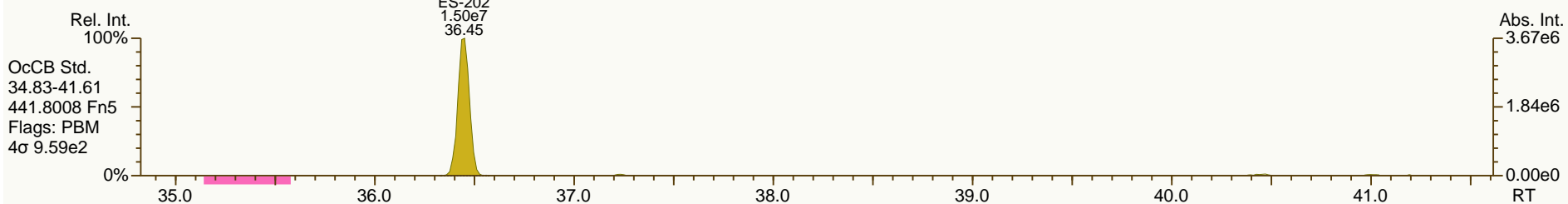
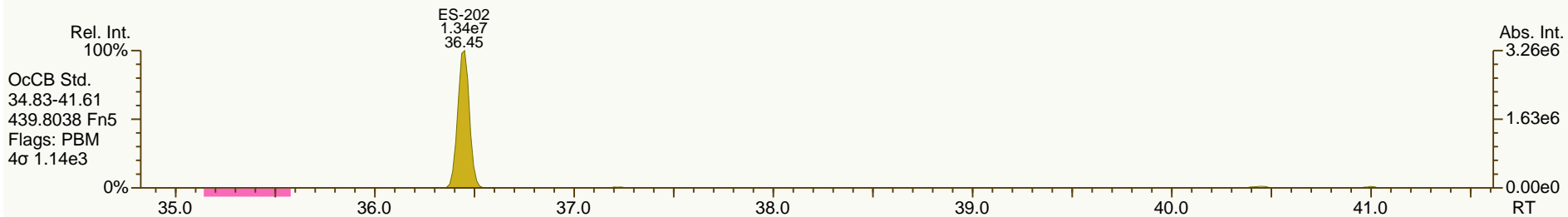
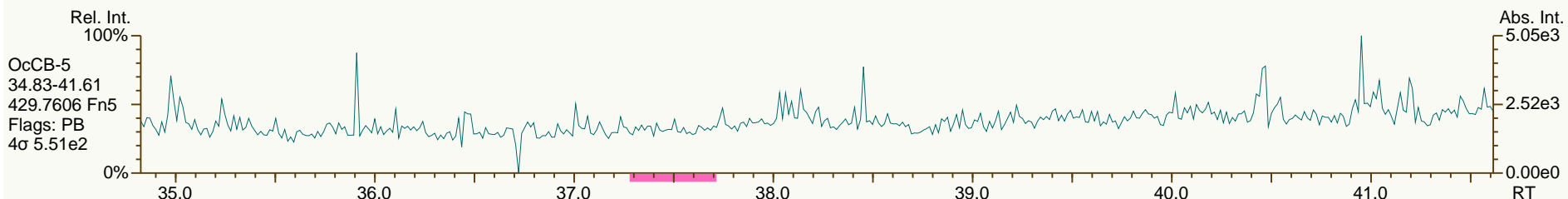
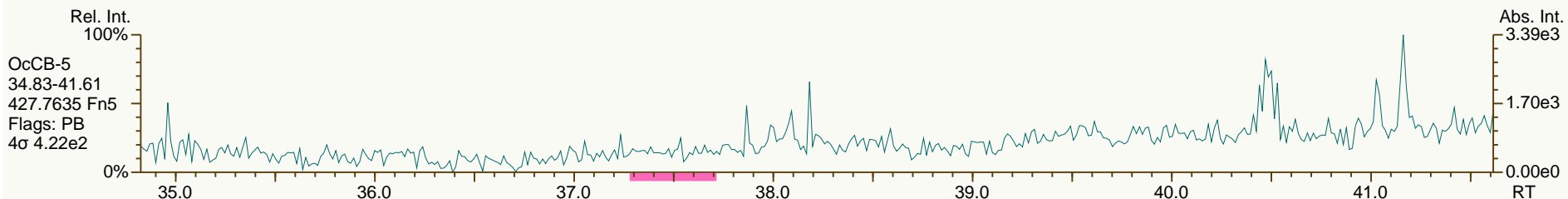
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 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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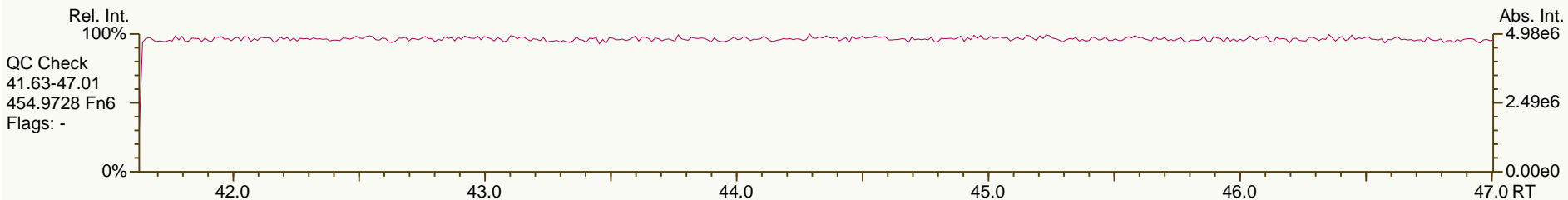
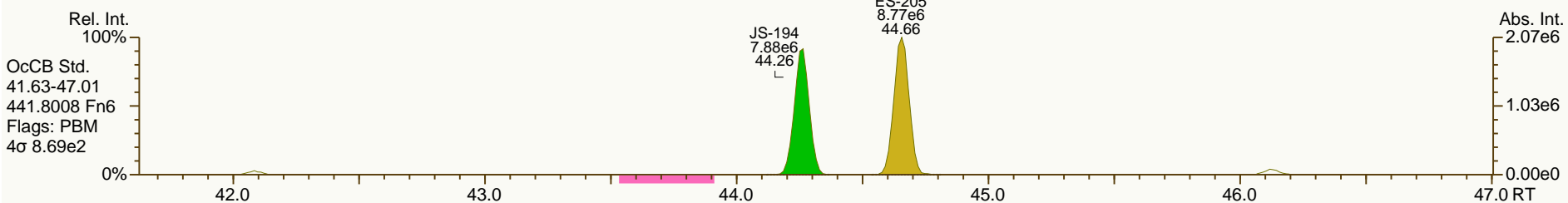
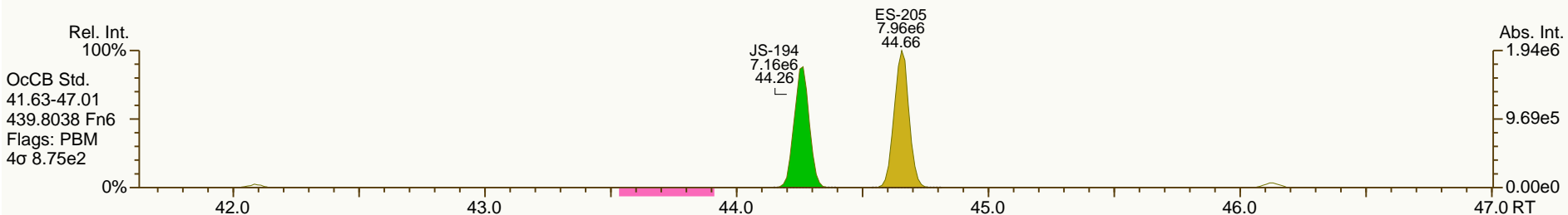
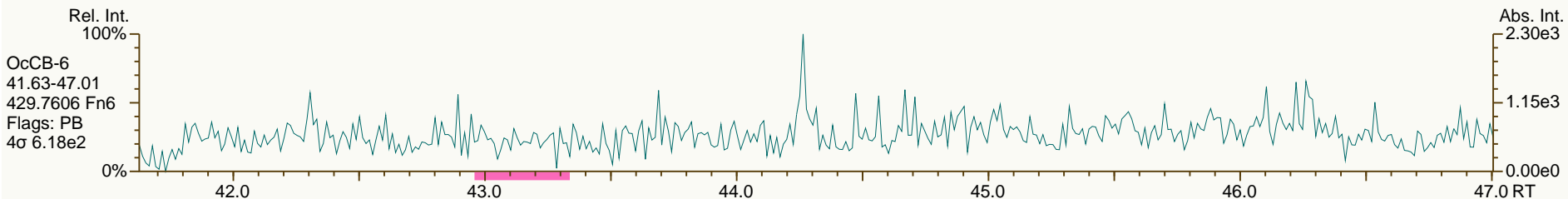
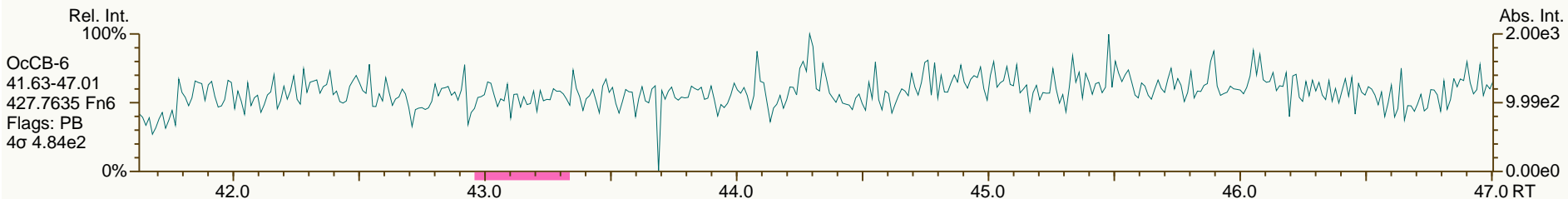
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 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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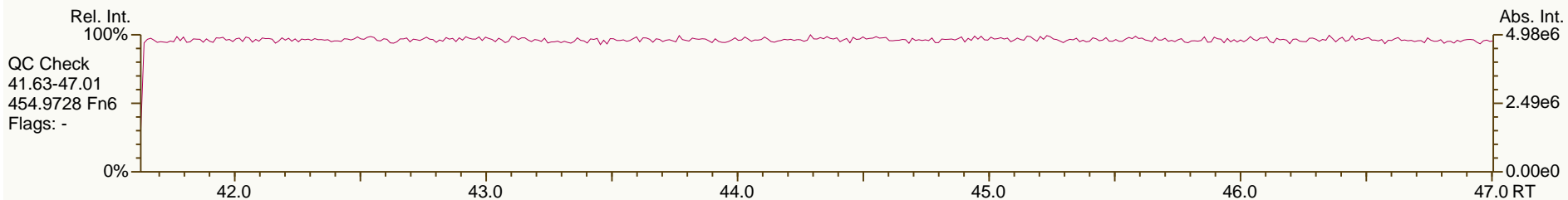
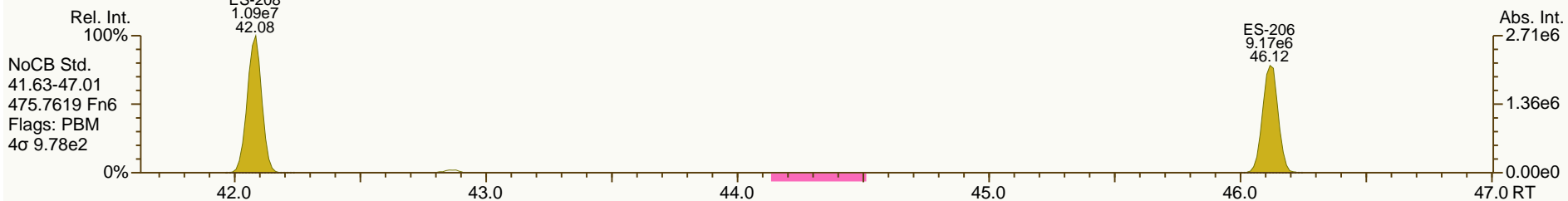
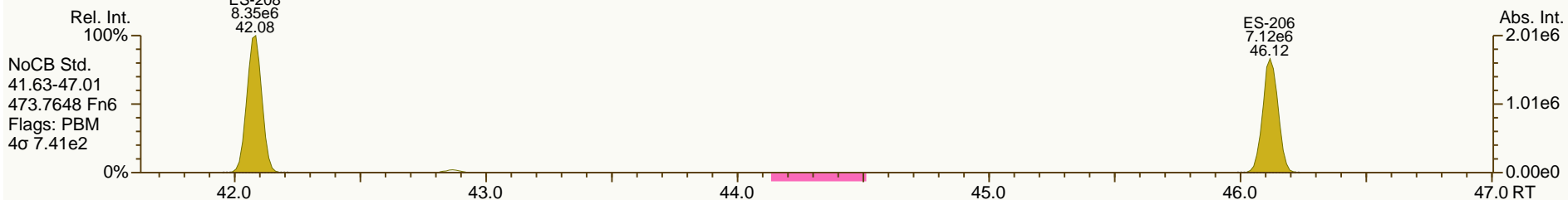
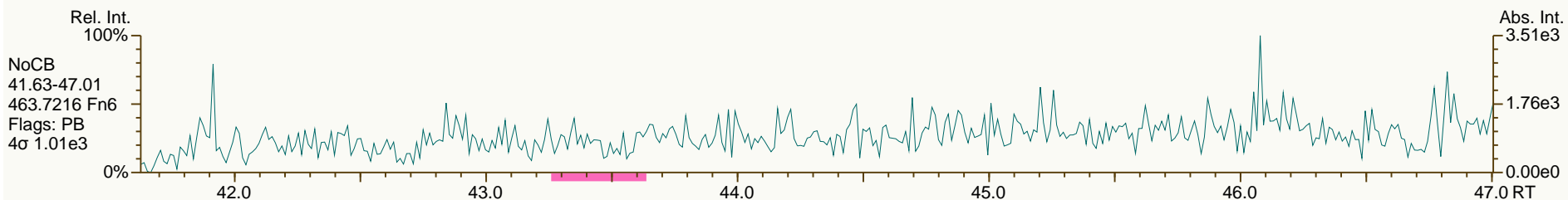
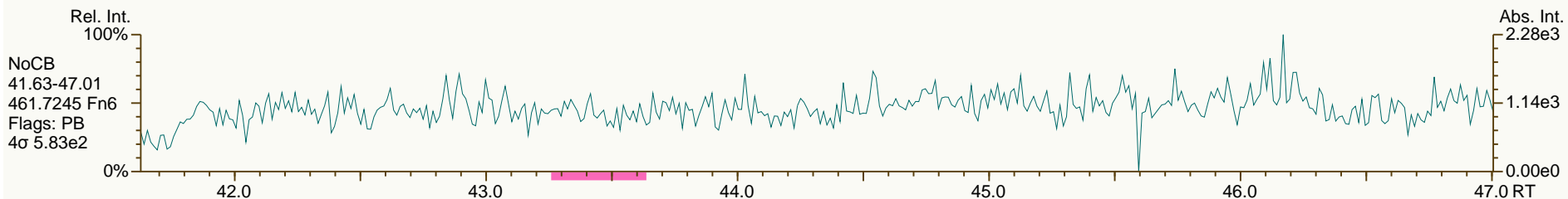
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 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
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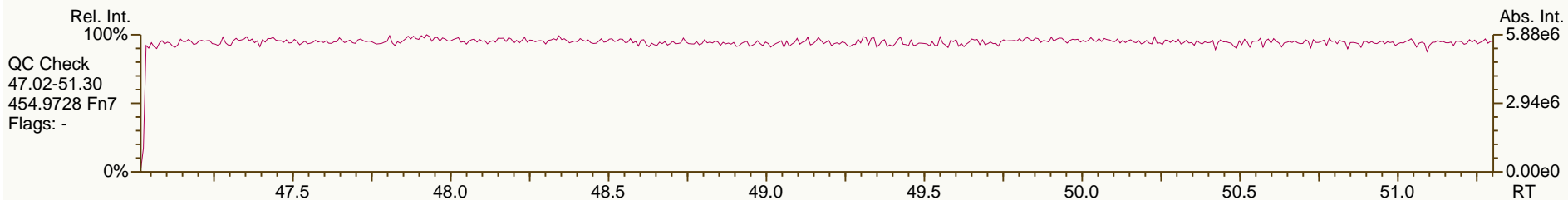
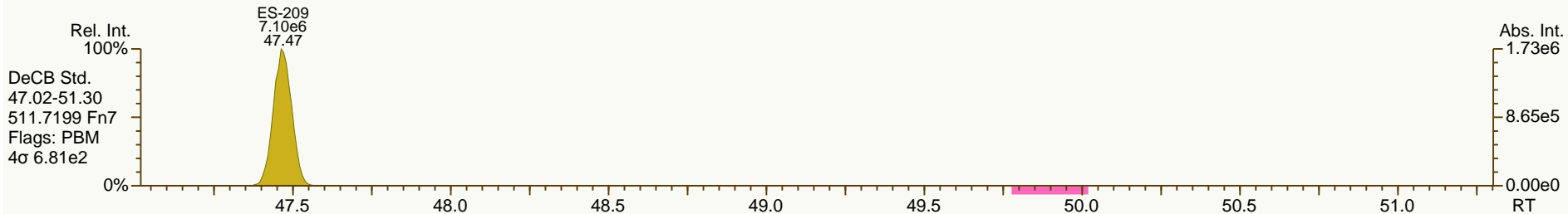
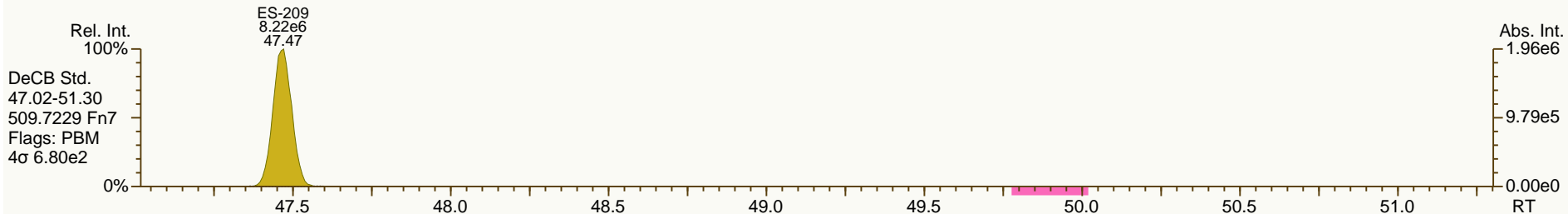
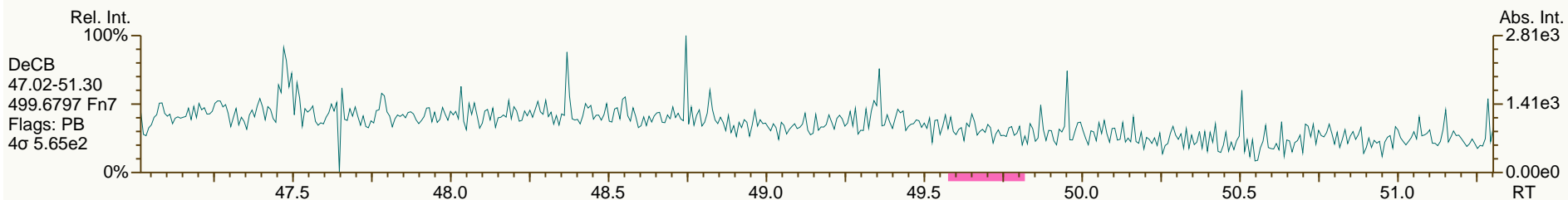
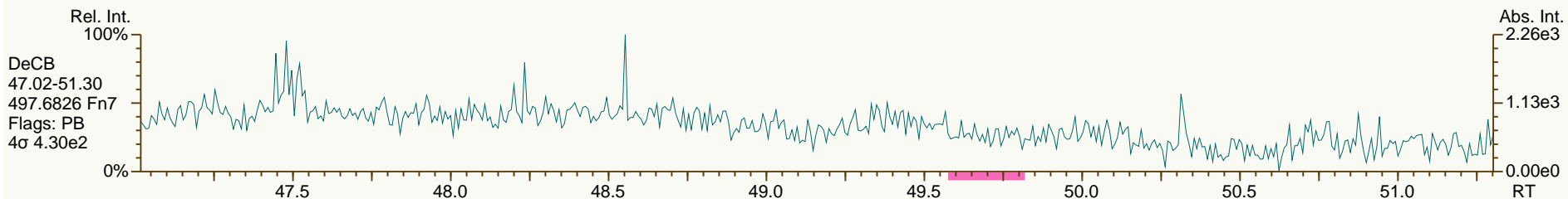
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 User: CTW Datafile: 131002S17



SGS-AP ID: MB1_11364_PCB_SDS
 Instr: AutoSpec-Ultima MM4

Sample ID: Method Blank
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 40

Acq: 03-Oct-2013 02:01:43
 User: CTW Datafile: 131002S17



Lab ID: A5959_11364_PCB_001

ACQ: 03-Oct-2013 04:49:48 CTW

Wt/Vol: 10.05 g

ICAL: MM4_PCB_07122013_11SEP2013 CS3_131002_PCB_SC

Client ID: JW-EA09-SC36-B-130426

UTP: 09-Oct-2013 17:22 CTW

J-level: 0.995 pg/g Split: 1

Checkcode: 854-086-HKF

Datafile: 131002S20

RPT: 09-Oct-2013 17:23 CW

Std (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method HR-PCB

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	NotFnd		1.0006	-		0.00E+00		1.51	ND	2.52E+03	0.17
PCB-81 344'5'-TeCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	2.52E+03	0.165
PCB-105 233'44'-PeCB	32.52	J	1.0007	1.0009	+0.4	3.19E+04	0.71	1.00	0.322	1.49E+03	0.147
PCB-114 2344'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.06	ND	1.49E+03	0.144
PCB-118 23'44'5'-PeCB	31.52	J B	1.0008	1.0006	-0.4	7.93E+04	0.67	1.01	0.795	1.49E+03	0.149
PCB-123 23'44'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.06	ND	1.49E+03	0.144
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.26	ND	1.47E+03	0.124
PCB-156/157 ...-HxCB	NotFnd	C	1.0005	-		0.00E+00		1.06	ND	1.55E+03	0.239
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.12	ND	1.55E+03	0.157
PCB-169 33'44'55'-HxCB	NotFnd		1.0005	-		0.00E+00		1.09	ND	1.55E+03	0.249
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.15	ND	1.43E+03	0.142
PCB-209 DeCB	NotFnd		1.0004	-		0.00E+00		1.03	ND	9.55E+02	0.184
ES PCB-1	10.00		0.7192	0.7205	+0.8	1.90E+07	3.23	1.04	56.2 %	25%	150%
ES PCB-3	11.93		0.8591	0.8599	+0.6	2.20E+07	3.21	0.99	68.7 %	25%	150%
ES PCB-4	12.14		0.8744	0.8748	+0.3	1.71E+07	1.57	0.71	74.4 %	25%	150%
ES PCB-15	17.28		1.2448	1.2452	+0.4	3.23E+07	1.59	1.09	91.6 %	25%	150%
ES PCB-19	14.85		1.0705	1.0704	-0.1	1.57E+07	1.05	0.59	82.1 %	25%	150%
ES PCB-37	23.32		1.0867	1.0872	+0.7	2.02E+07	1.08	1.32	75.4 %	25%	150%
ES PCB-54	17.52		0.8173	0.8167	-0.6	2.29E+07	0.79	1.35	83.5 %	25%	150%
ES PCB-77	29.55		1.3765	1.3777	+2.1	2.02E+07	0.77	1.07	92.9 %	25%	150%
ES PCB-81	29.08		1.3542	1.3557	+2.6	2.35E+07	0.78	1.19	97 %	25%	150%
ES PCB-104	22.25		0.8156	0.8140	-2.1	2.41E+07	1.57	1.62	91.4 %	25%	150%
ES PCB-105	32.49		1.1904	1.1886	-3.5	1.98E+07	1.63	1.30	93.8 %	25%	150%
ES PCB-114	31.95		1.1704	1.1687	-3.3	1.98E+07	1.60	1.32	92.3 %	25%	150%
ES PCB-118	31.50		1.1540	1.1524	-3.0	1.97E+07	1.57	1.30	92.9 %	25%	150%
ES PCB-123	31.23		1.1439	1.1423	-3.0	1.92E+07	1.59	1.26	93.9 %	25%	150%
ES PCB-126	35.11		1.2864	1.2842	-4.6	1.90E+07	1.65	1.41	83.4 %	25%	150%
ES PCB-153	33.08		0.9693	0.9693	0	1.70E+07	1.24	1.15	95.7 %	25%	150%
ES PCB-155	27.14		0.7939	0.7953	+2.3	2.23E+07	1.26	1.53	92.5 %	25%	150%
ES PCB-156/157	37.64		1.1032	1.1031	-0.2	3.48E+07	1.28	1.19	93.2 %	25%	150%
ES PCB-167	36.67		1.0747	1.0746	-0.2	1.80E+07	1.28	1.22	93.8 %	25%	150%
ES PCB-169	40.38		1.1833	1.1833	0	1.15E+07	1.24	1.18	61.9 %	25%	150%
ES PCB-170	39.87		0.9005	0.9005	0	1.34E+07	1.03	1.22	103 %	25%	150%
ES PCB-180	38.82		0.8766	0.8766	0	1.58E+07	1.04	1.41	105 %	25%	150%
ES PCB-188	31.94		0.7211	0.7213	+0.4	2.56E+07	1.12	1.71	95.5 %	25%	150%
ES PCB-189	42.51		0.9601	0.9601	0	1.84E+07	1.06	1.84	95.2 %	25%	150%
ES PCB-202	36.47		0.8236	0.8236	0	2.22E+07	0.90	1.42	99.8 %	25%	150%
ES PCB-205	44.67		1.0089	1.0090	+0.3	1.16E+07	0.92	1.25	88.1 %	25%	150%
ES PCB-206	46.14		1.0420	1.0420	0	1.09E+07	0.77	1.24	83.7 %	25%	150%
ES PCB-208	42.10		0.9508	0.9507	-0.3	1.45E+07	0.78	1.42	97.3 %	25%	150%
ES PCB-209	47.48		1.0725	1.0724	-0.3	1.03E+07	1.14	1.23	79.9 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	19.88		0.9271	0.9268	-0.4	2.90E+07	1.06	1.06	135 %	30%	135%
SS PCB-111	29.58		1.0835	1.0823	-2.1	2.08E+07	1.56	1.06	102 %	30%	135%
SS PCB-178	34.51		1.0114	1.0113	-0.2	1.59E+07	1.15	0.58	106 %	30%	135%
CS PCB-28	19.88		0.9271	0.9268	-0.4	2.90E+07	1.06	1.40	102 %	30%	135%
CS PCB-111	29.58		1.0835	1.0823	-2.1	2.08E+07	1.56	1.34	95.9 %	30%	135%
CS PCB-178	34.51		1.0114	1.0113	-0.2	1.59E+07	1.15	0.99	102 %	30%	135%
JS PCB-9	13.87					3.24E+07	1.62				
JS PCB-52	21.45					2.03E+07	0.77				
JS PCB-101	27.34					1.62E+07	1.55				
JS PCB-138	34.13					1.57E+07	1.26				
JS PCB-194	44.28					1.05E+07	0.93				
			Totals			NON-EMPC		EMPC		DL	
			Mono-CBs			3.6		3.6		0.133	
			Di-CBs			2.84		2.84		0.411	
			Tri-CBs			0.966		0.966		0.342	
			Tetra-CBs			11.2		11.5		0.179	
			Penta-CBs			3.4		3.92		0.135	
			Hexa-CBs			7.29		7.87		0.192	
			Hepta-CBs			4.78		6.48		0.155	
			Octa-CBs			1.29		1.75		0.159	
			Nona-CBs			0		0		0.431	
PCB-1 2-MoCB	10.01	J B	1.0011	1.0014	+0.2	8.07E+04	2.80	1.20	0.709	3.05E+03	0.14
PCB-2 3-MoCB	11.78	B	0.9877	0.9874	-0.2	2.54E+05	3.51	1.20	1.92	3.05E+03	0.13
PCB-3 4-MoCB	11.94	J B	1.0010	1.0011	+0.1	1.34E+05	3.36	1.24	0.976	3.05E+03	0.126
PCB-4 22'-DiCB	NotFnd		1.0012	-		0.00E+00		0.97	ND	7.74E+03	0.565
PCB-10 26'-DiCB	NotFnd		1.0138	-		0.00E+00		1.45	ND	7.74E+03	0.379
PCB-9 25'-DiCB	NotFnd		1.0011	-		0.00E+00		1.02	ND	6.30E+03	0.311
PCB-7 24'-DiCB	NotFnd		1.0114	-		0.00E+00		1.20	ND	6.30E+03	0.264
PCB-6 23'-DiCB	NotFnd		1.0263	-		0.00E+00		1.11	ND	6.30E+03	0.284
PCB-5 23'-DiCB	NotFnd		1.0455	-		0.00E+00		1.10	ND	6.30E+03	0.289
PCB-8 24'-DiCB	NotFnd		1.0534	-		0.00E+00		1.14	ND	6.30E+03	0.278
PCB-14 35'-DiCB	NotFnd		0.9280	-		0.00E+00		1.31	ND	6.30E+03	0.242
PCB-11 33'-DiCB	16.76	B	0.9699	0.9699	0	5.20E+05	SI	1.13	2.84	6.30E+03	0.28
PCB-13/12 34'/34'-DiCB	NotFnd	C	0.9853	-		0.00E+00		1.15	ND	6.30E+03	0.276
PCB-15 44'-DiCB	NotFnd		1.0008	-		0.00E+00		1.23	ND	6.30E+03	0.258
PCB-19 22'6-TrCB	NotFnd		1.0011	-		0.00E+00		0.97	ND	3.39E+03	0.328
PCB-30/18 246/22'5-TrCB	NotFnd	C	1.1090	-		0.00E+00		1.28	ND	3.39E+03	0.249
PCB-17 22'4-TrCB	NotFnd		1.1341	-		0.00E+00		1.10	ND	3.39E+03	0.29
PCB-27 23'6-TrCB	NotFnd		1.1466	-		0.00E+00		1.47	ND	3.39E+03	0.217
PCB-24 236-TrCB	NotFnd		1.1542	-		0.00E+00		1.42	ND	3.39E+03	0.225
PCB-16 22'3-TrCB	NotFnd		1.1604	-		0.00E+00		0.86	ND	3.39E+03	0.368

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	NotFnd		1.1906	-		0.00E+00		1.58	ND	3.39E+03	0.202
PCB-34 23'5'-TrCB	NotFnd		0.8062	-		0.00E+00		1.27	ND	4.64E+03	0.357
PCB-23 235-TrCB	NotFnd		0.8118	-		0.00E+00		1.31	ND	4.64E+03	0.347
PCB-26/29 23'5'/245-TrCB	NotFnd	C	0.8236	-		0.00E+00		1.30	ND	4.64E+03	0.349
PCB-25 23'4-TrCB	NotFnd		0.8317	-		0.00E+00		1.33	ND	4.64E+03	0.342
PCB-31 24'5-TrCB	19.64	J	0.8432	0.8420	-1.4	6.01E+04	1.17	1.38	0.429	4.64E+03	0.33
PCB-28/20 244'/233'-TrCB	19.90	J B C	0.8545	0.8534	-1.3	7.00E+04	0.96	1.28	0.537	4.64E+03	0.354
PCB-21/33 234/23'4'-TrCB	NotFnd	C	0.8617	-		0.00E+00		1.35	ND	4.64E+03	0.338
PCB-22 234'-TrCB	NotFnd		0.8772	-		0.00E+00		1.24	ND	4.64E+03	0.367
PCB-36 33'5-TrCB	NotFnd		0.9346	-		0.00E+00		1.35	ND	4.64E+03	0.338
PCB-39 34'5-TrCB	NotFnd		0.9476	-		0.00E+00		1.40	ND	4.64E+03	0.326
PCB-38 345-TrCB	NotFnd		0.9689	-		0.00E+00		1.26	ND	4.64E+03	0.36
PCB-35 33'4-TrCB	NotFnd		0.9859	-		0.00E+00		1.24	ND	4.64E+03	0.368
PCB-37 344'-TrCB	NotFnd		1.0009	-		0.00E+00		1.28	ND	4.64E+03	0.355
PCB-54 22'66'-TeCB	NotFnd		1.0010	-		0.00E+00		1.00	ND	2.01E+03	0.146
PCB-50/53 22'46/22'56'-TeCB	NotFnd	C	0.9055	-		0.00E+00		0.81	ND	1.99E+03	0.205
PCB-45 22'36-TeCB	NotFnd		0.9315	-		0.00E+00		0.73	ND	1.99E+03	0.227
PCB-51 22'46'-TeCB	20.04	B	0.9347	0.9343	-0.5	1.58E+05	0.77	0.79	1.69	1.99E+03	0.209
PCB-46 22'36'-TeCB	NotFnd		0.9440	-		0.00E+00		0.67	ND	1.99E+03	0.249
PCB-52 22'55'-TeCB	21.47	J B	1.0010	1.0011	+0.1	5.53E+04	0.89	0.79	0.591	1.99E+03	0.209
PCB-73 23'5'6-TeCB	NotFnd		1.0067	-		0.00E+00		1.03	ND	1.99E+03	0.162
PCB-43 22'35-TeCB	NotFnd		1.0104	-		0.00E+00		0.69	ND	1.99E+03	0.24
PCB-69/49 23'46/22'45'-TeCB	21.88	J B EMPC C	1.0193	1.0204	+1.4	3.39E+04	1.00	0.95	0.301	1.99E+03	0.174
PCB-48 22'45-TeCB	NotFnd		1.0316	-		0.00E+00		0.81	ND	1.99E+03	0.205
PCB-44/47/65 ...-TeCB	22.36	B C	1.0413	1.0424	+1.5	7.81E+05	0.75	0.85	7.81	1.99E+03	0.196
PCB-59/62/75 ...-TeCB	NotFnd	C	1.0536	-		0.00E+00		1.08	ND	1.99E+03	0.154
PCB-42 22'34'-TeCB	NotFnd		1.0613	-		0.00E+00		0.73	ND	1.99E+03	0.229
PCB-41 22'34-TeCB	NotFnd		1.0760	-		0.00E+00		0.67	ND	1.99E+03	0.247
PCB-71/40 23'4'6/22'33'-TeCB	NotFnd	C	1.0807	-		0.00E+00		0.81	ND	1.99E+03	0.205
PCB-64 234'6-TeCB	NotFnd		1.0897	-		0.00E+00		1.15	ND	1.99E+03	0.145
PCB-72 23'55'-TeCB	NotFnd		0.8295	-		0.00E+00		1.32	ND	2.52E+03	0.159
PCB-68 23'45'-TeCB	24.41	J B	0.8380	0.8395	+2.2	1.37E+05	0.78	1.44	0.806	2.52E+03	0.146
PCB-57 233'5-TeCB	NotFnd		0.8502	-		0.00E+00		1.27	ND	2.52E+03	0.165
PCB-58 233'5'-TeCB	NotFnd		0.8571	-		0.00E+00		1.33	ND	2.52E+03	0.158
PCB-67 23'45-TeCB	NotFnd		0.8621	-		0.00E+00		1.38	ND	2.52E+03	0.152
PCB-63 234'5-TeCB	NotFnd		0.8697	-		0.00E+00		1.41	ND	2.52E+03	0.149
PCB-61/70/74/76 ...-TeCB	NotFnd	C	0.8793	-		0.00E+00		1.30	ND	2.52E+03	0.162
PCB-66 23'44'-TeCB	NotFnd		0.8890	-		0.00E+00		1.23	ND	2.52E+03	0.171
PCB-55 233'4-TeCB	25.97	J	0.8938	0.8932	-0.9	4.97E+04	0.84	1.26	0.334	2.52E+03	0.166
PCB-56 233'4'-TeCB	NotFnd		0.9086	-		0.00E+00		1.21	ND	2.52E+03	0.174
PCB-60 2344'-TeCB	NotFnd		0.9148	-		0.00E+00		1.27	ND	2.52E+03	0.165
PCB-80 33'55'-TeCB	NotFnd		0.9271	-		0.00E+00		1.46	ND	2.52E+03	0.144
PCB-79 33'45'-TeCB	NotFnd		0.9716	-		0.00E+00		1.49	ND	2.52E+03	0.141
PCB-78 33'45-TeCB	NotFnd		0.9878	-		0.00E+00		1.22	ND	2.52E+03	0.172
PCB-104 22'466'-PeCB	NotFnd		1.0010	-		0.00E+00		1.06	ND	1.42E+03	0.1
PCB-96 22'366'-PeCB	NotFnd		1.0150	-		0.00E+00		0.87	ND	1.42E+03	0.121
PCB-103 22'45'6-PeCB	NotFnd		0.8886	-		0.00E+00		0.85	ND	1.49E+03	0.18
PCB-94 22'356'-PeCB	NotFnd		0.8954	-		0.00E+00		0.75	ND	1.49E+03	0.204

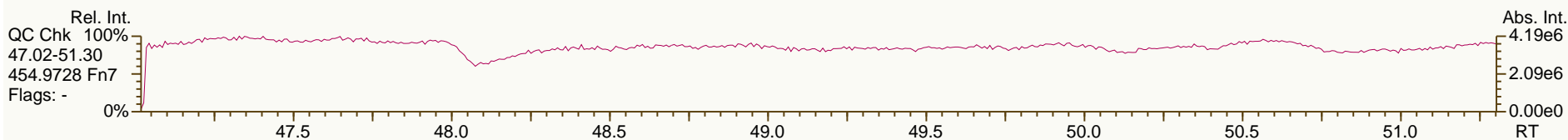
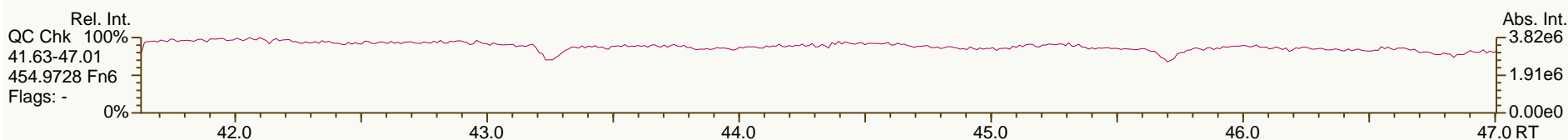
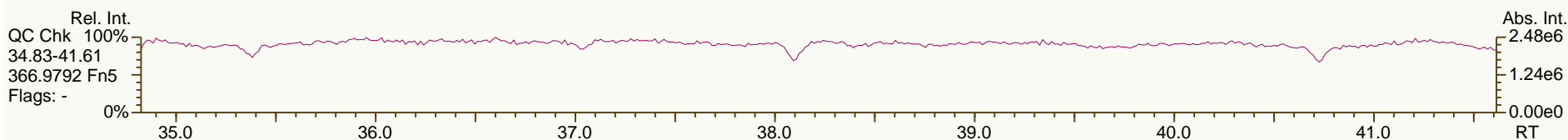
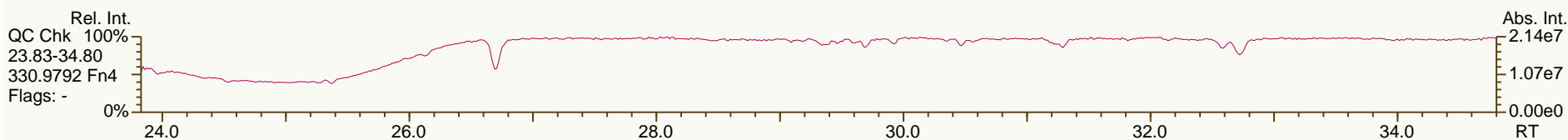
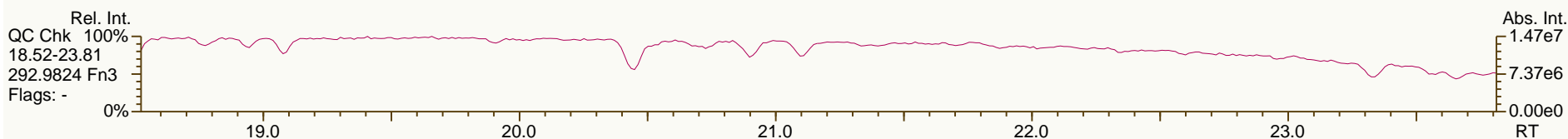
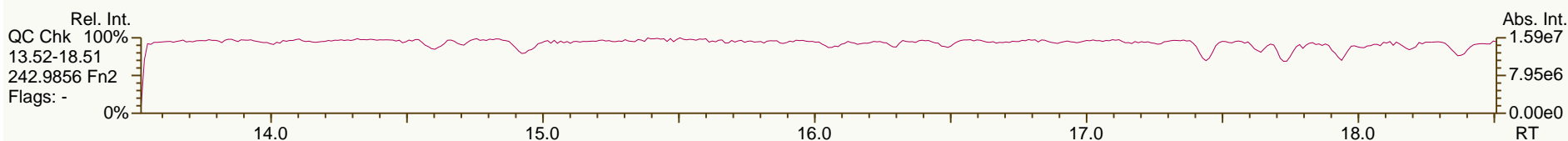
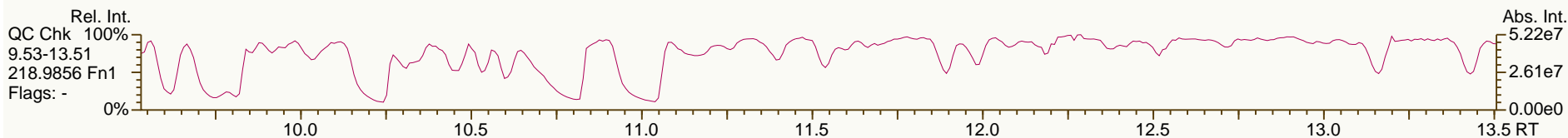
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	NotFnd		0.9092	-		0.00E+00		0.79	ND	1.49E+03	0.192
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9162	-		0.00E+00		0.83	ND	1.49E+03	0.185
PCB-102 22'456'-PeCB	NotFnd		0.9204	-		0.00E+00		0.81	ND	1.49E+03	0.188
PCB-98 22'34'6'-PeCB	NotFnd		0.9226	-		0.00E+00		0.80	ND	1.49E+03	0.191
PCB-88 22'346-PeCB	NotFnd		0.9331	-		0.00E+00		0.73	ND	1.49E+03	0.208
PCB-91 22'34'6-PeCB	NotFnd		0.9360	-		0.00E+00		0.89	ND	1.49E+03	0.172
PCB-84 22'33'6-PeCB	NotFnd		0.9429	-		0.00E+00		0.69	ND	1.49E+03	0.222
PCB-89 22'346'-PeCB	NotFnd		0.9577	-		0.00E+00		0.73	ND	1.49E+03	0.209
PCB-121 23'45'6-PeCB	NotFnd		0.9710	-		0.00E+00		1.09	ND	1.49E+03	0.14
PCB-92 22'355'-PeCB	NotFnd		0.9827	-		0.00E+00		0.77	ND	1.49E+03	0.198
PCB-113/90/101 ...-PeCB	27.36	J B C	1.0000	1.0007	+1.1	7.99E+04	0.69	0.90	0.922	1.49E+03	0.17
PCB-83 22'33'5-PeCB	NotFnd		1.0154	-		0.00E+00		0.70	ND	1.49E+03	0.219
PCB-99 22'44'5-PeCB	27.83	J	1.0187	1.0180	-1.2	3.35E+04	0.57	0.82	0.422	1.49E+03	0.186
PCB-112 233'56-PeCB	NotFnd		1.0224	-		0.00E+00		1.04	ND	1.49E+03	0.147
PCB-108/119/86/97/125...-PeCB	28.29	J EMPC C	1.0348	1.0348	0	4.51E+04	0.72	0.90	0.517	1.49E+03	0.169
PCB-117 234'56-PeCB	NotFnd		1.0539	-		0.00E+00		0.95	ND	1.49E+03	0.16
PCB-116/85 23456/22'344'-PeCB	NotFnd	C	1.0565	-		0.00E+00		0.94	ND	1.49E+03	0.163
PCB-110 233'4'6-PeCB	29.00	J B	1.0620	1.0608	-2.1	8.13E+04	0.66	0.90	0.937	1.49E+03	0.17
PCB-115 2344'6-PeCB	NotFnd		1.0644	-		0.00E+00		1.18	ND	1.49E+03	0.129
PCB-82 22'33'4-PeCB	NotFnd		1.0717	-		0.00E+00		0.67	ND	1.49E+03	0.229
PCB-111 233'55'-PeCB	NotFnd		1.0843	-		0.00E+00		1.10	ND	1.49E+03	0.138
PCB-120 23'455'-PeCB	NotFnd		1.0986	-		0.00E+00		1.11	ND	1.49E+03	0.137
PCB-107/124 ...-PeCB	NotFnd	C	0.9910	-		0.00E+00		1.01	ND	1.49E+03	0.151
PCB-109 233'46-PeCB	NotFnd		0.9975	-		0.00E+00		1.06	ND	1.49E+03	0.144
PCB-106 233'45-PeCB	NotFnd		1.0038	-		0.00E+00		0.99	ND	1.49E+03	0.154
PCB-122 233'4'5'-PeCB	NotFnd		1.0099	-		0.00E+00		0.94	ND	1.49E+03	0.161
PCB-127 33'455'-PeCB	NotFnd		1.0393	-		0.00E+00		1.03	ND	1.49E+03	0.142
PCB-155 22'44'66'-HxCB	NotFnd		1.0008	-		0.00E+00		1.12	ND	1.67E+03	0.124
PCB-152 22'3566'-HxCB	NotFnd		1.0068	-		0.00E+00		1.05	ND	1.67E+03	0.133
PCB-150 22'34'66'-HxCB	NotFnd		1.0121	-		0.00E+00		1.04	ND	1.67E+03	0.134
PCB-136 22'33'66'-HxCB	27.75	J	1.0233	1.0226	-1.2	4.05E+04	1.35	0.97	0.375	1.67E+03	0.144
PCB-145 22'3466'-HxCB	NotFnd		1.0326	-		0.00E+00		0.98	ND	1.67E+03	0.142
PCB-148 22'34'56'-HxCB	NotFnd		1.0801	-		0.00E+00		1.05	ND	1.67E+03	0.181
PCB-151/135 ...-HxCB	29.78	J C	1.0993	1.0973	-3.6	6.28E+04	1.38	1.02	0.723	1.67E+03	0.187
PCB-154 22'44'56'-HxCB	NotFnd		1.1066	-		0.00E+00		1.13	ND	1.67E+03	0.168
PCB-144 22'345'6-HxCB	NotFnd		1.1162	-		0.00E+00		1.02	ND	1.67E+03	0.186
PCB-147/149 ...-HxCB	30.55	J B C	1.1274	1.1255	-3.5	1.26E+05	1.19	1.03	1.43	1.67E+03	0.184
PCB-134 22'33'56-HxCB	NotFnd		1.1335	-		0.00E+00		0.80	ND	1.67E+03	0.237
PCB-143 22'3456'-HxCB	NotFnd		1.1364	-		0.00E+00		1.04	ND	1.67E+03	0.182
PCB-139/140 ...-HxCB	NotFnd	C	1.1460	-		0.00E+00		1.06	ND	1.67E+03	0.179
PCB-131 22'33'46-HxCB	NotFnd		1.1522	-		0.00E+00		0.92	ND	1.67E+03	0.206
PCB-142 22'3456-HxCB	NotFnd		1.1570	-		0.00E+00		0.93	ND	1.67E+03	0.204
PCB-132 22'33'46'-HxCB	31.60	J EMPC	1.1665	1.1644	-4.0	4.66E+04	0.99	0.95	0.574	1.67E+03	0.2
PCB-133 22'33'55'-HxCB	NotFnd		1.1825	-		0.00E+00		1.00	ND	1.67E+03	0.189
PCB-165 233'55'6-HxCB	NotFnd		0.9486	-		0.00E+00		1.21	ND	1.67E+03	0.157
PCB-146 22'34'55'-HxCB	32.58	J	0.9548	0.9547	-0.2	3.05E+04	1.24	1.08	0.329	1.67E+03	0.175
PCB-161 233'45'6-HxCB	NotFnd		0.9581	-		0.00E+00		1.36	ND	1.67E+03	0.14
PCB-153/168 ...-HxCB	33.10	J B C	0.9705	0.9699	-1.2	1.95E+05	1.42	1.26	1.81	1.67E+03	0.151

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	33.26	J	0.9747	0.9747	0	4.04E+04	1.24	0.98	0.48	1.67E+03	0.193
PCB-130 22'33'45'-HxCB	NotFnd		0.9848	-		0.00E+00		0.88	ND	1.67E+03	0.216
PCB-137 22'344'5-HxCB	NotFnd		0.9903	-		0.00E+00		1.01	ND	1.67E+03	0.187
PCB-164 233'4'5'6-HxCB	33.90	J	0.9931	0.9935	+0.8	2.07E+04	1.34	1.33	0.183	1.67E+03	0.143
PCB-163/138/129 ...-HxCB	34.15	J B C	1.0013	1.0008	-1.0	1.72E+05	1.39	1.03	1.96	1.67E+03	0.184
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.34	ND	1.67E+03	0.141
PCB-158 233'44'6-HxCB	NotFnd		1.0104	-		0.00E+00		1.38	ND	1.67E+03	0.138
PCB-128/166 ...-HxCB	NotFnd	C	0.9599	-		0.00E+00		0.90	ND	1.55E+03	0.194
PCB-159 233'455'-HxCB	NotFnd		0.9830	-		0.00E+00		1.08	ND	1.55E+03	0.162
PCB-162 233'4'55'-HxCB	NotFnd		0.9897	-		0.00E+00		1.10	ND	1.55E+03	0.16
PCB-188 22'34'566'-HpCB	NotFnd		1.0007	-		0.00E+00		0.97	ND	1.10E+03	0.085
PCB-179 22'33'566'-HpCB	32.24	J	1.0096	1.0096	0	4.52E+04	0.97	0.89	0.397	1.10E+03	0.093
PCB-184 22'344'66'-HpCB	NotFnd		1.0236	-		0.00E+00		0.88	ND	1.10E+03	0.0941
PCB-176 22'33'466'-HpCB	NotFnd		1.0329	-		0.00E+00		0.97	ND	1.10E+03	0.0853
PCB-186 22'34566'-HpCB	NotFnd		1.0449	-		0.00E+00		0.91	ND	1.10E+03	0.0906
PCB-178 22'33'55'6-HpCB	34.54	J EMPC	1.0815	1.0815	0	1.09E+04	0.74	0.68	0.125	1.10E+03	0.121
PCB-175 22'33'45'6-HpCB	NotFnd		1.0983	-		0.00E+00		0.96	ND	1.41E+03	0.191
PCB-187 22'34'55'6-HpCB	35.30	B	1.1055	1.1053	-0.4	8.89E+04	0.95	1.00	1.12	1.41E+03	0.183
PCB-182 22'344'56'-HpCB	NotFnd		1.1108	-		0.00E+00		1.04	ND	1.41E+03	0.177
PCB-183 22'344'5'6-HpCB	35.81	J EMPC	1.1217	1.1215	-0.4	3.71E+04	0.82	1.00	0.467	1.41E+03	0.184
PCB-185 22'3455'6-HpCB	NotFnd		1.1242	-		0.00E+00		1.03	ND	1.41E+03	0.178
PCB-174 22'33'456'-HpCB	36.01	J B EMPC	1.1278	1.1275	-0.6	6.20E+04	1.25	0.88	0.892	1.41E+03	0.21
PCB-177 22'33'45'6'-HpCB	36.39	J	1.1394	1.1394	0	3.50E+04	1.06	0.87	0.507	1.41E+03	0.211
PCB-181 22'344'56-HpCB	NotFnd		1.1499	-		0.00E+00		1.00	ND	1.41E+03	0.184
PCB-171/173 ...-HpCB	NotFnd	C	1.1556	-		0.00E+00		0.88	ND	1.41E+03	0.209
PCB-172 22'33'455'-HpCB	NotFnd		0.9006	-		0.00E+00		0.91	ND	1.41E+03	0.201
PCB-192 233'455'6-HpCB	NotFnd		0.9062	-		0.00E+00		1.17	ND	1.41E+03	0.157
PCB-180/193 ...-HpCB	38.83	B C	0.9129	0.9135	+1.4	1.76E+05	1.14	1.11	1.99	1.41E+03	0.165
PCB-191 233'44'5'6-HpCB	NotFnd		0.9205	-		0.00E+00		1.22	ND	1.41E+03	0.15
PCB-170 22'33'44'5-HpCB	39.90	J	0.9385	0.9385	0	5.31E+04	1.01	1.02	0.77	1.41E+03	0.204
PCB-190 233'44'56-HpCB	40.34	J EMPC	0.9489	0.9489	0	1.95E+04	0.86	1.36	0.212	1.41E+03	0.153
PCB-202 22'33'55'66'-OcCB	NotFnd		1.0006	-		0.00E+00		0.83	ND	1.32E+03	0.138
PCB-201 22'33'45'66'-OcCB	NotFnd		1.0219	-		0.00E+00		0.93	ND	1.32E+03	0.124
PCB-204 22'344'566'-OcCB	NotFnd		1.0375	-		0.00E+00		0.87	ND	1.32E+03	0.132
PCB-197 22'33'44'66'-OcCB	NotFnd		1.0428	-		0.00E+00		1.00	ND	1.32E+03	0.115
PCB-200 22'33'4566'-OcCB	NotFnd		1.0453	-		0.00E+00		0.89	ND	1.32E+03	0.129
PCB-198/199 ...-OcCB	40.49	J C	1.1098	1.1104	+1.5	3.28E+04	0.91	0.67	0.441	1.32E+03	0.172
PCB-196 22'33'44'56'-OcCB	41.03	J	1.1254	1.1251	-0.7	2.11E+04	0.93	0.70	0.271	1.32E+03	0.165
PCB-203 22'344'55'6-OcCB	41.21	J EMPC	1.1300	1.1301	+0.2	1.77E+04	1.31	0.72	0.221	1.32E+03	0.16
PCB-195 22'33'44'56-OcCB	42.32	J EMPC	0.9473	0.9474	+0.3	1.13E+04	0.61	0.83	0.234	1.10E+03	0.233
PCB-194 22'33'44'55'-OcCB	44.30	J	0.9916	0.9915	-0.3	3.08E+04	0.76	0.91	0.581	1.10E+03	0.213
PCB-205 233'44'55'6-OcCB	NotFnd		1.0004	-		0.00E+00		1.08	ND	1.10E+03	0.179
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		0.99	ND	2.34E+03	0.319
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0191	-		0.00E+00		1.03	ND	2.34E+03	0.307
PCB-206 22'33'44'55'6-NoCB	NotFnd		1.0004	-		0.00E+00		0.83	ND	2.34E+03	0.544

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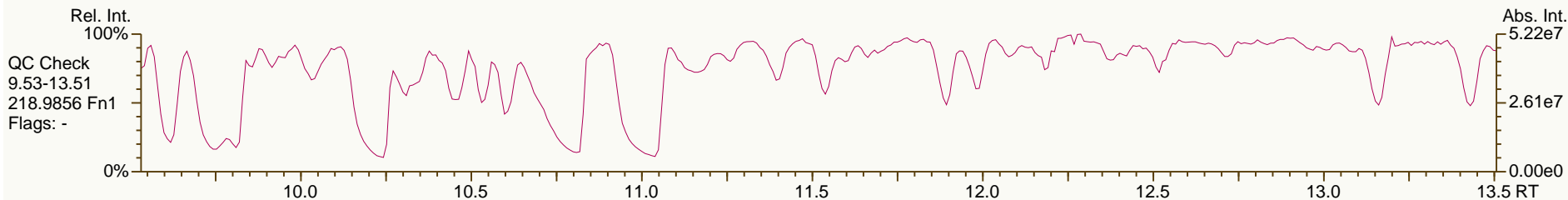
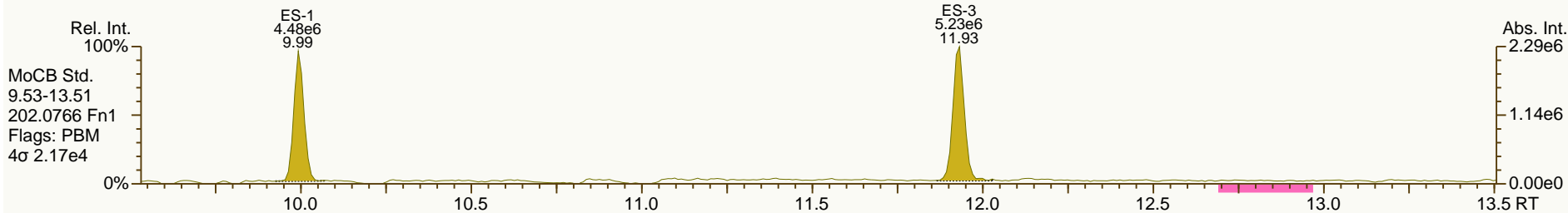
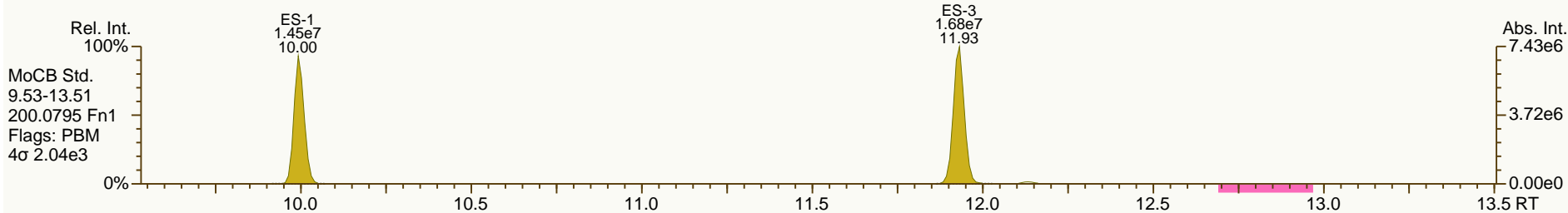
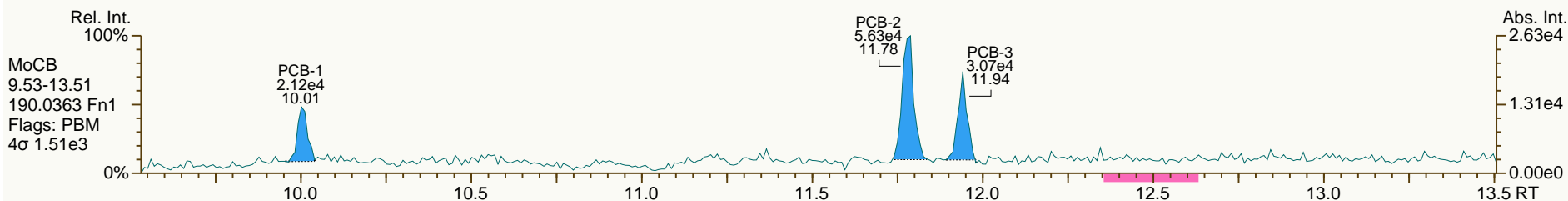
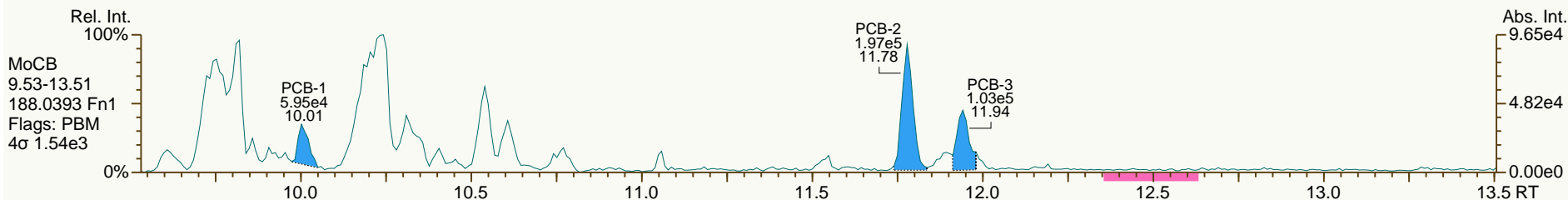
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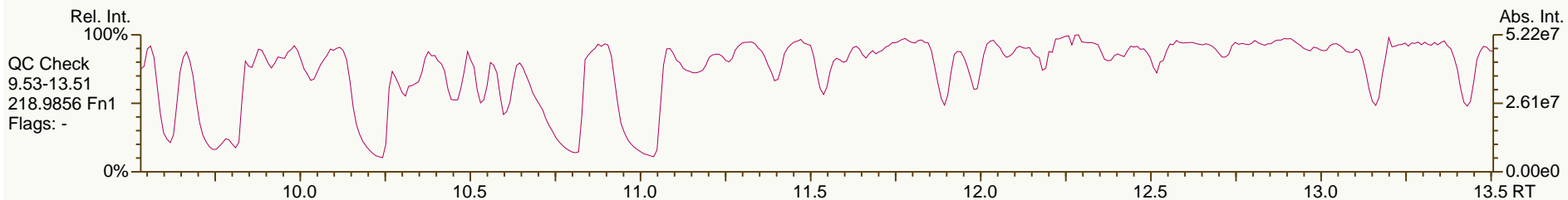
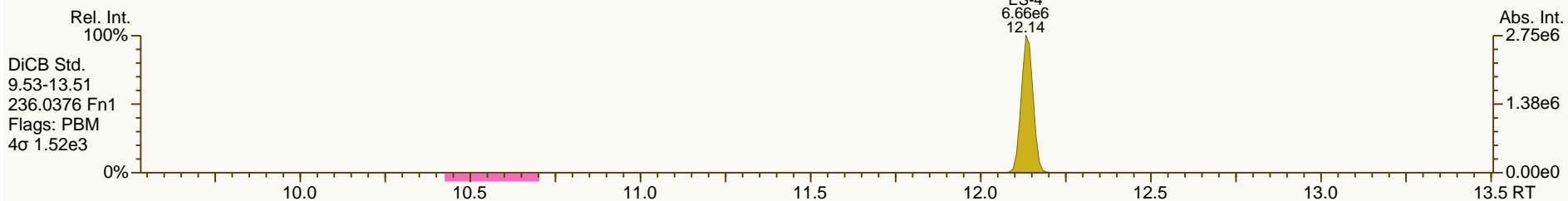
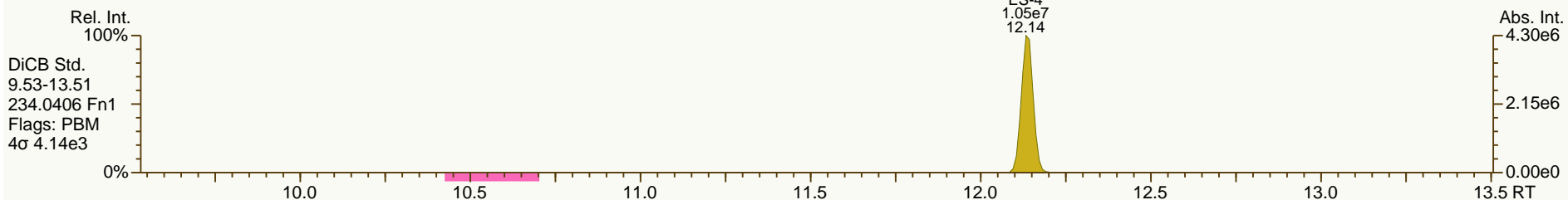
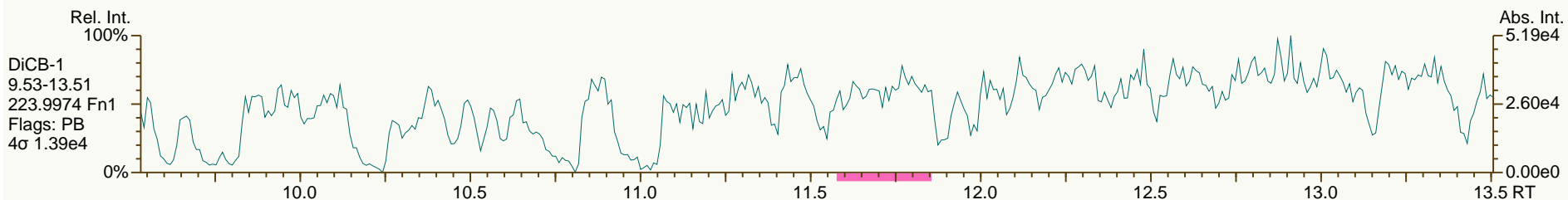
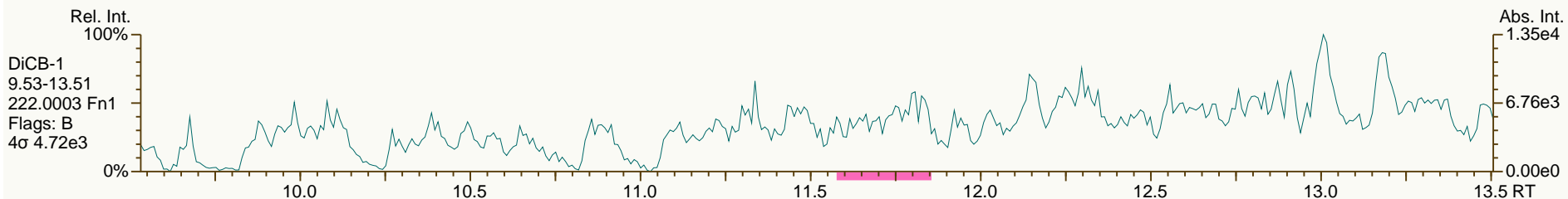
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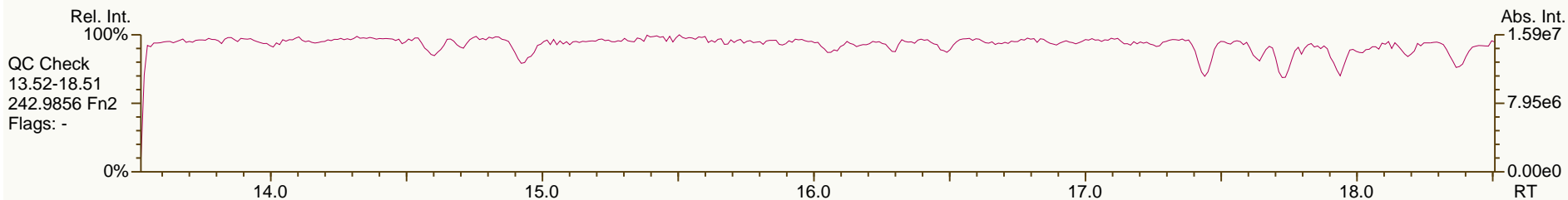
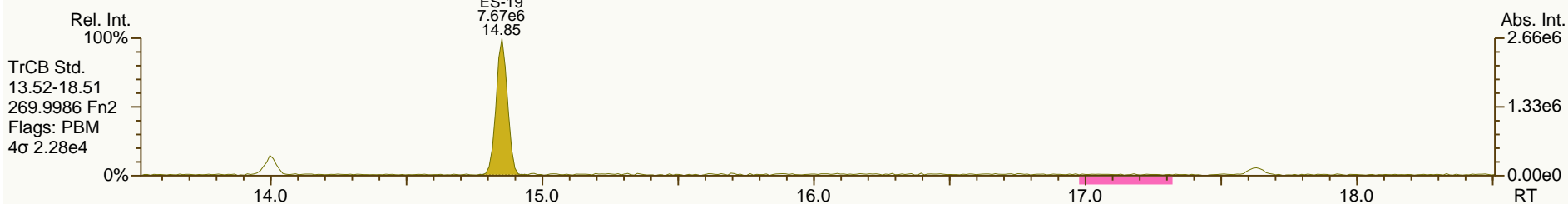
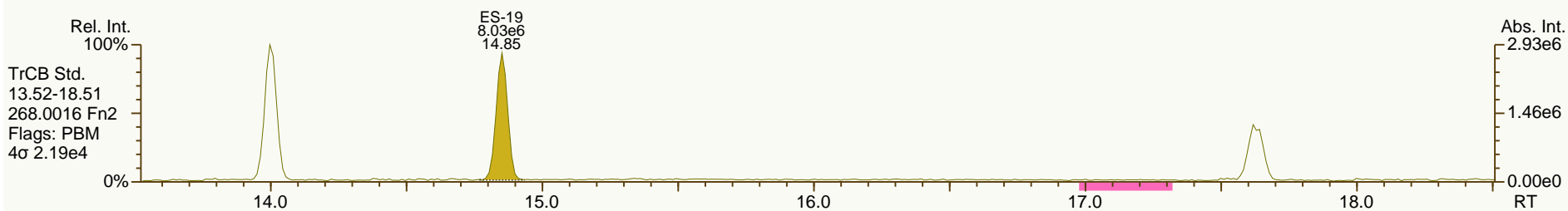
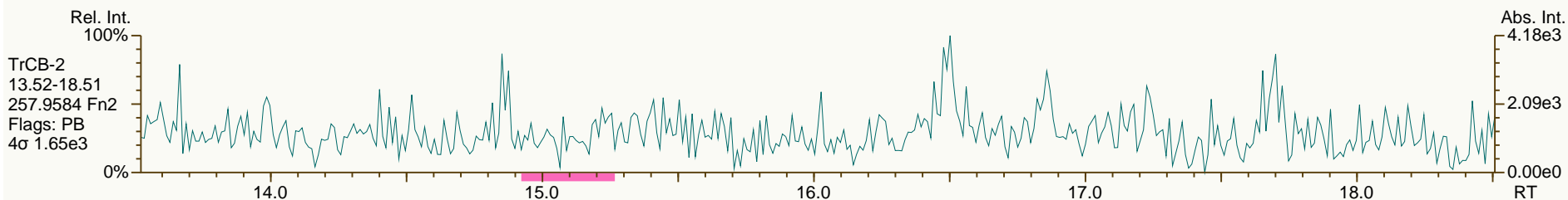
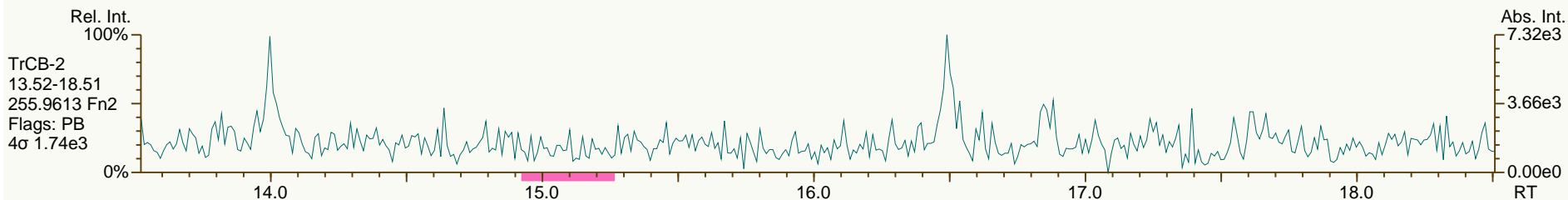
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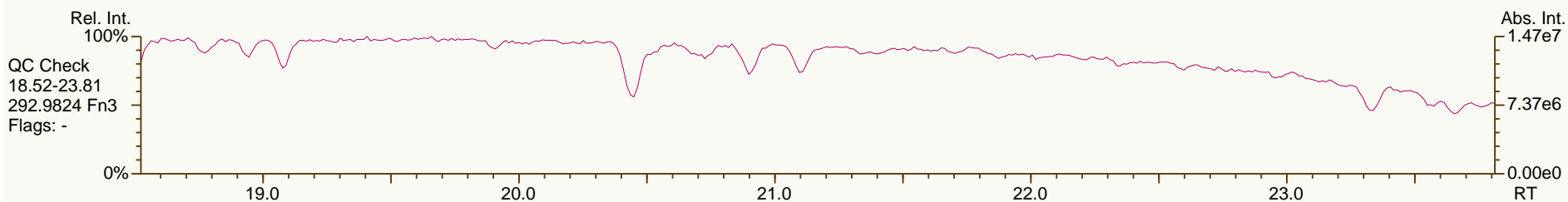
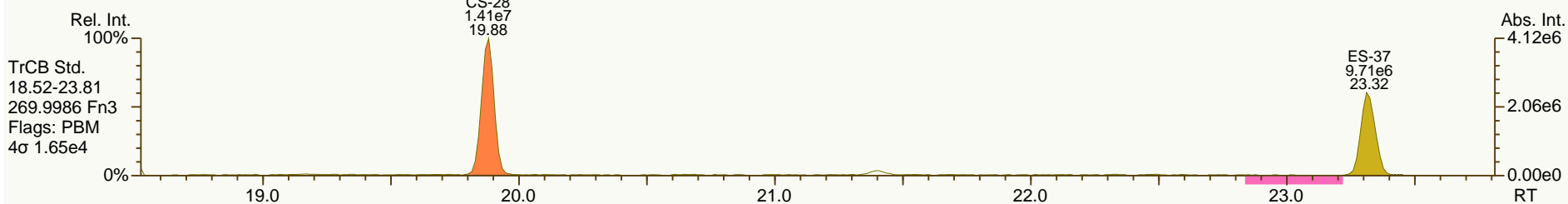
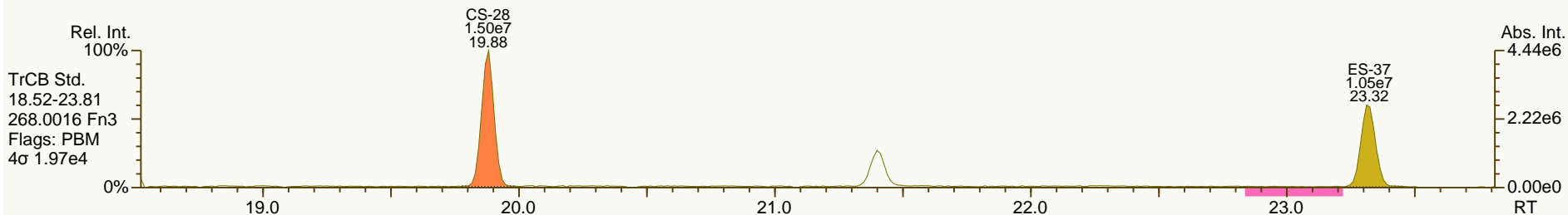
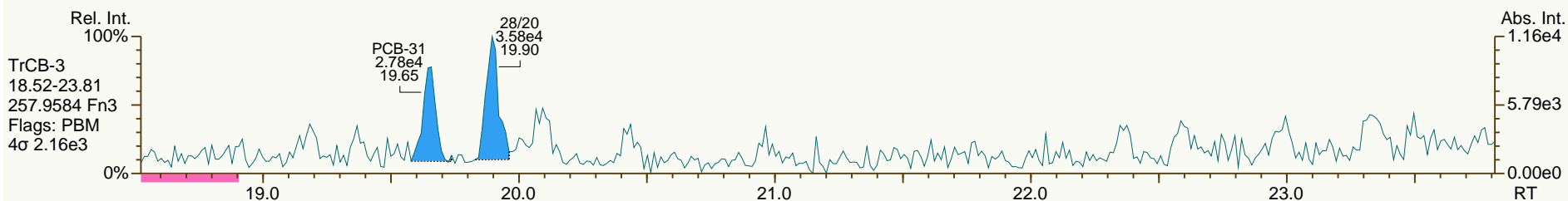
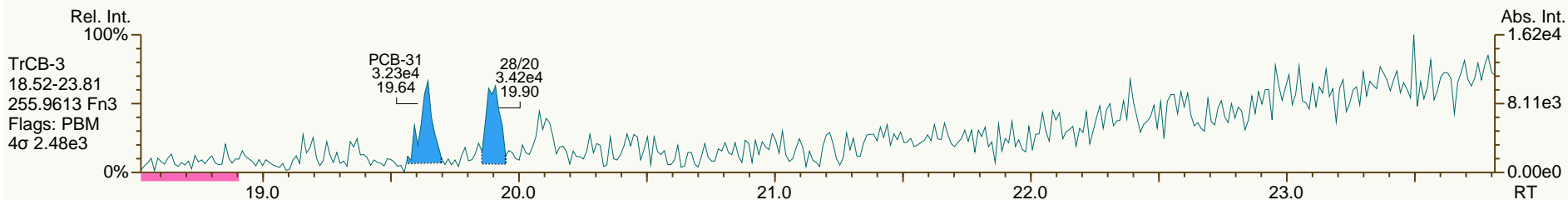
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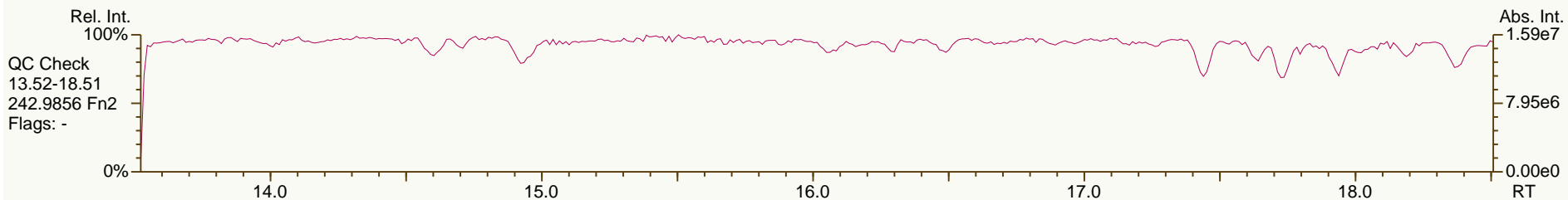
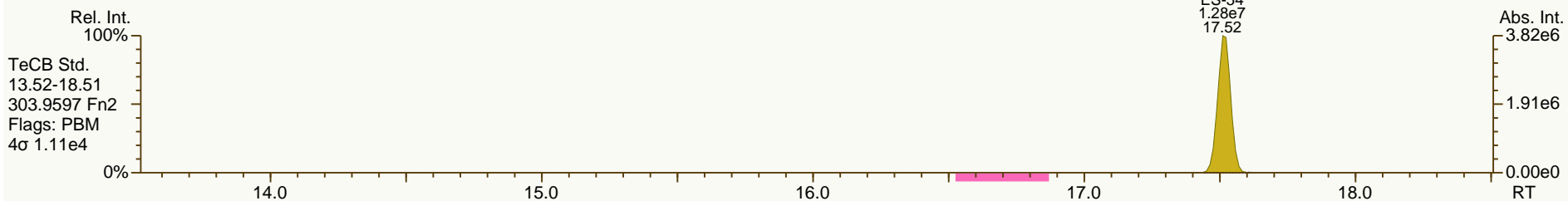
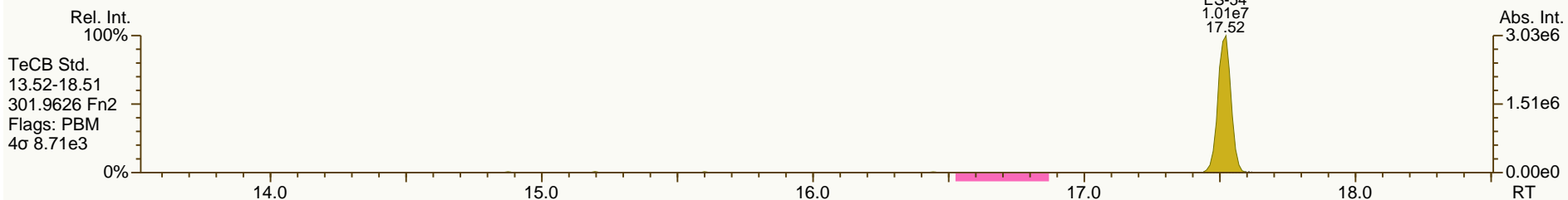
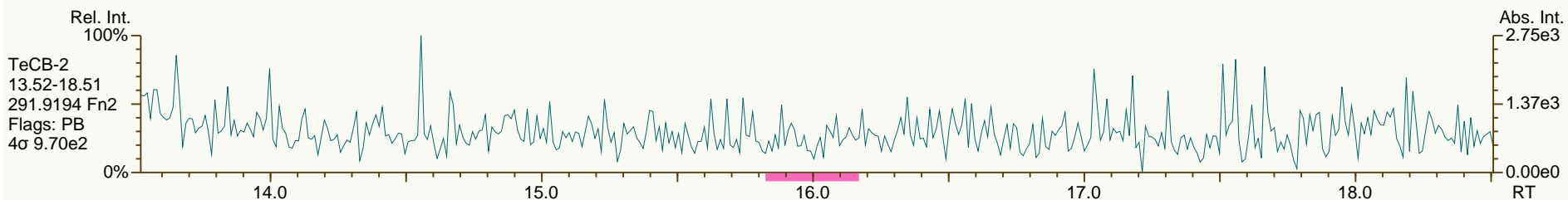
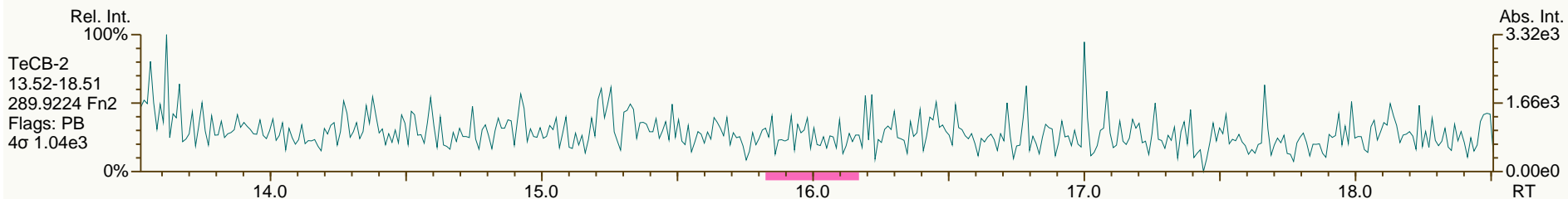
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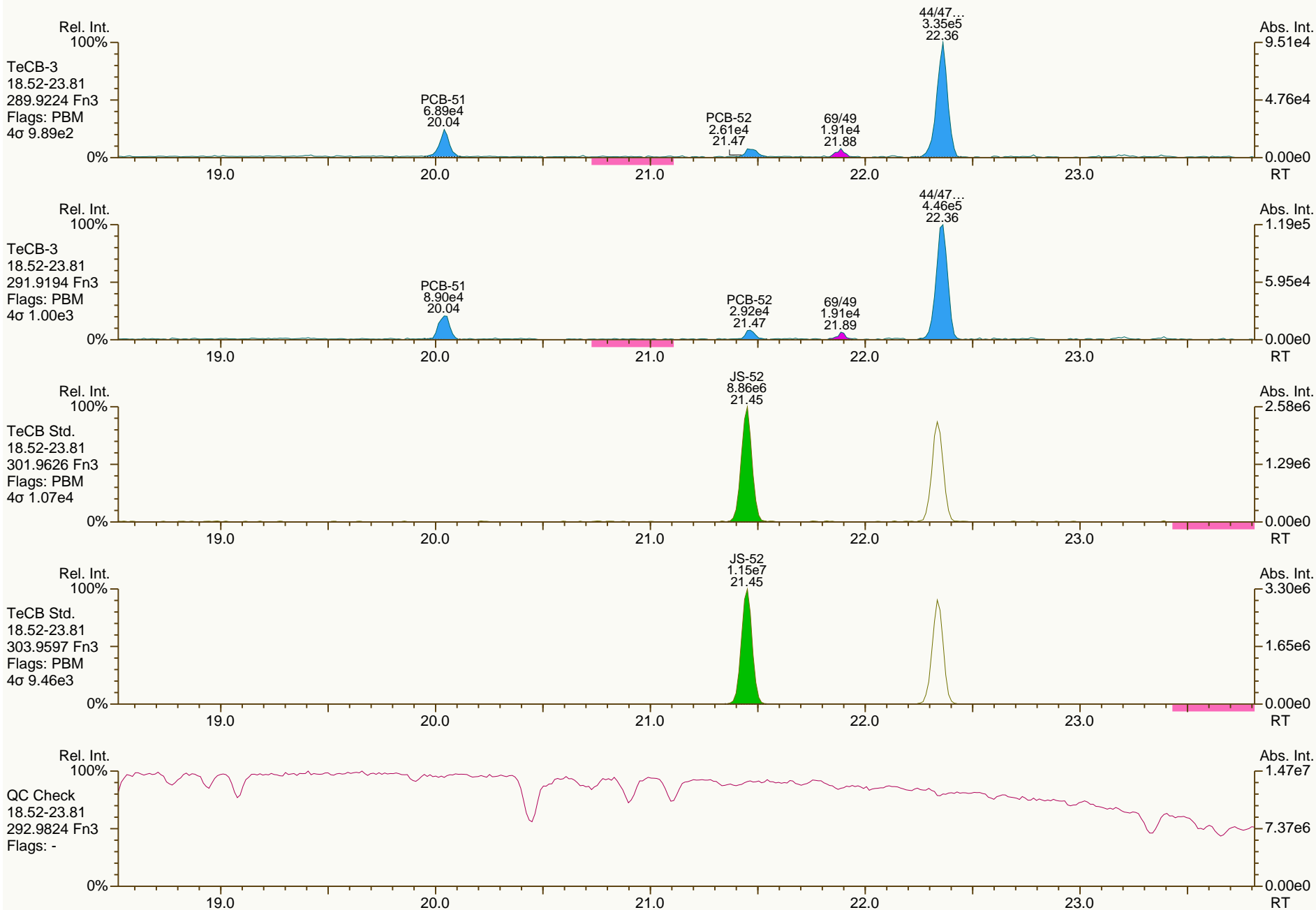
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Sample ID: JW-EA09-SC36-B-130426
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

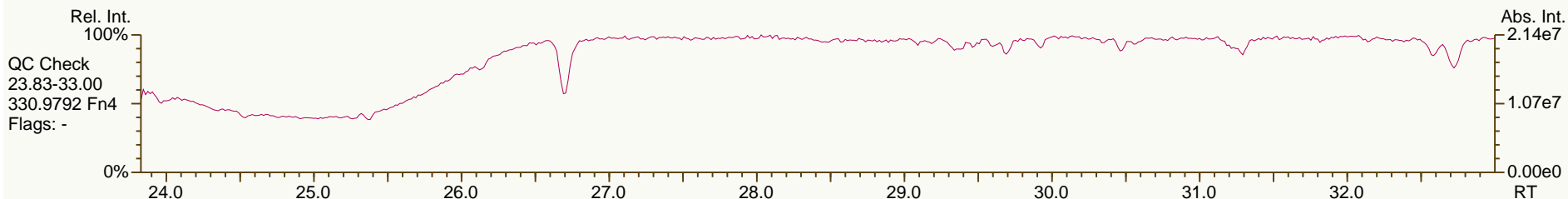
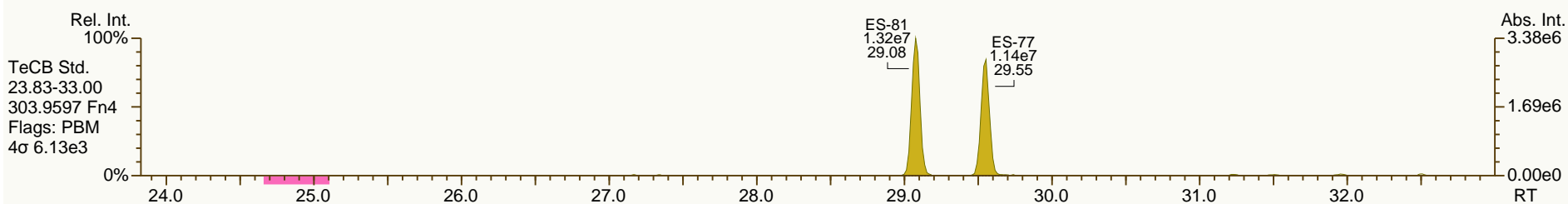
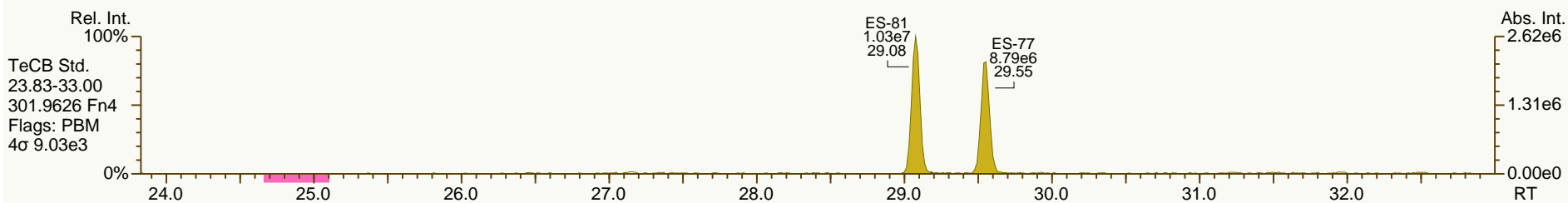
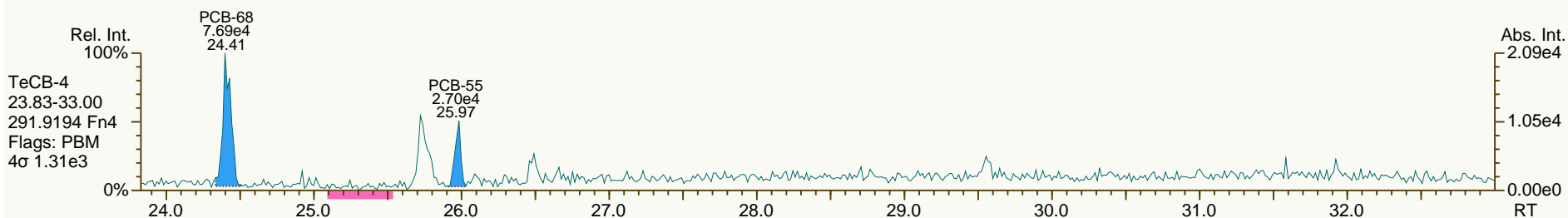
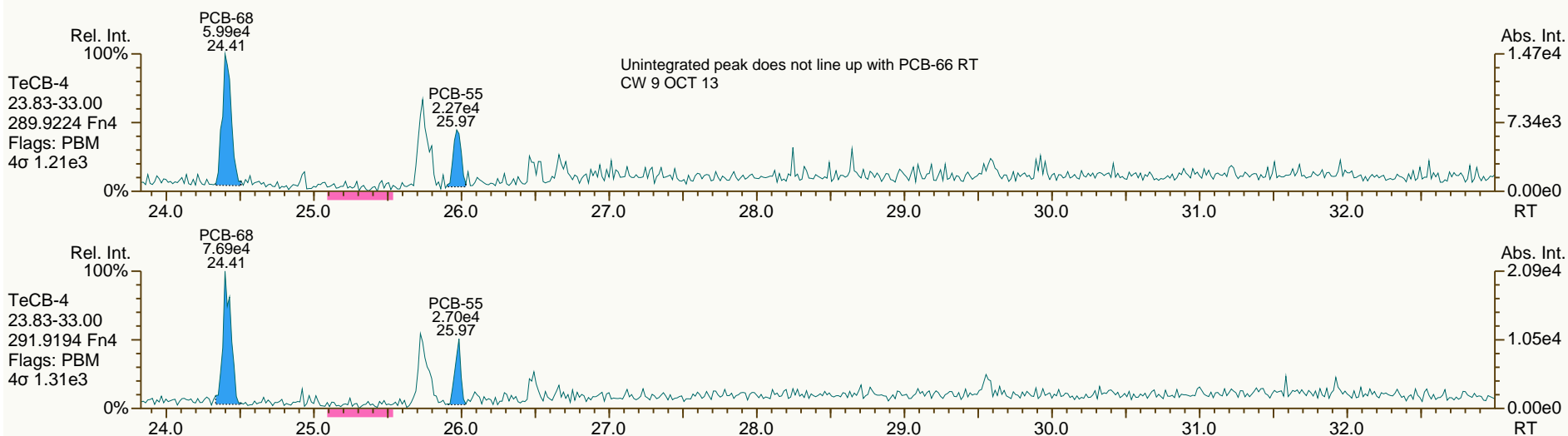
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SGS-AP ID: A5959_11364_PCB_001
Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-B-130426
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

Acq: 03-Oct-2013 04:49:48
User: CTW Datafile: 131002S20



SGS-AP ID: A5959_11364_PCB_001
Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-B-130426
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

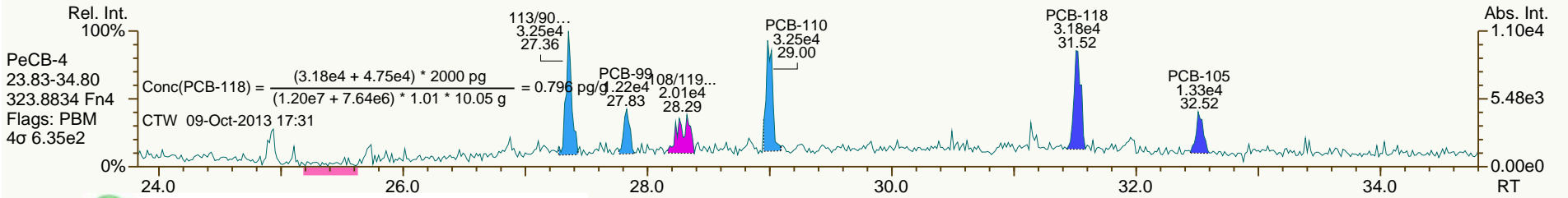
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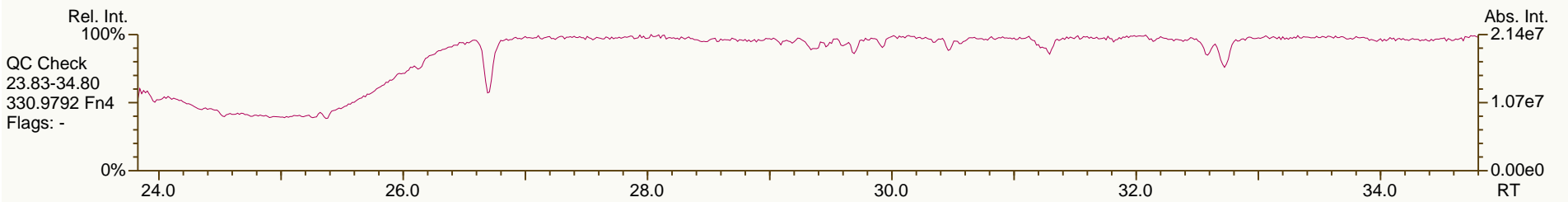
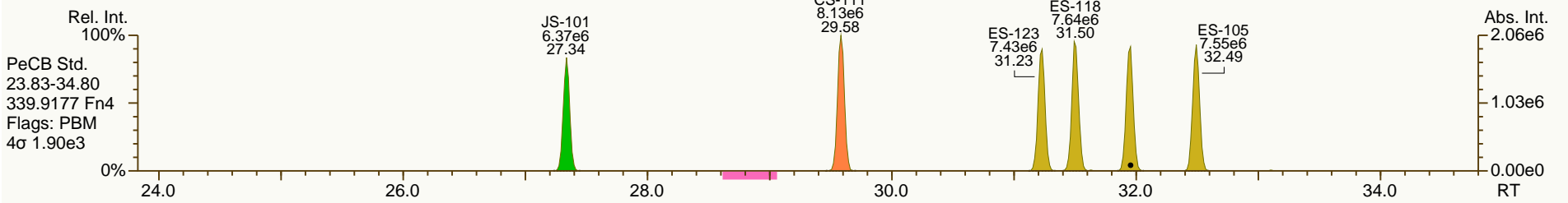
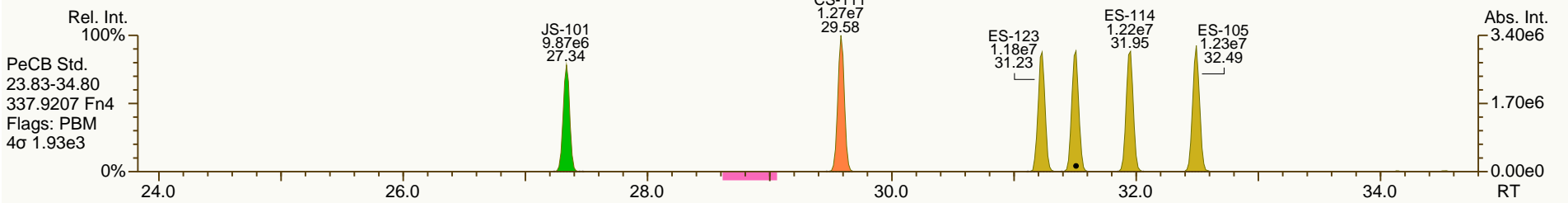
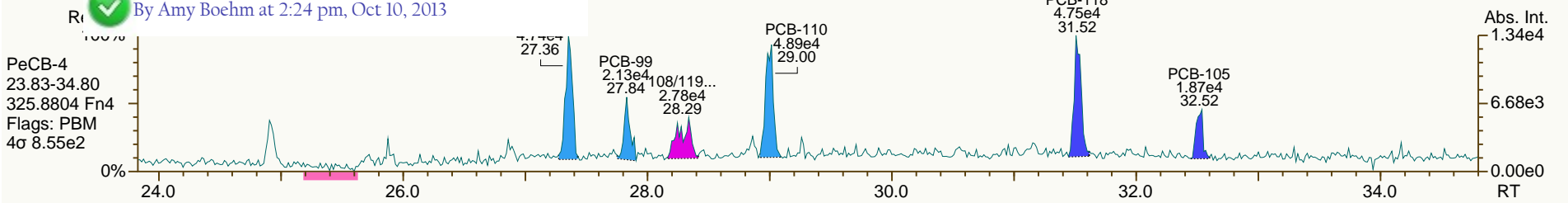
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 Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-B-130426
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

Acq: 03-Oct-2013 04:49:48
 User: CTW Datafile: 131002S20



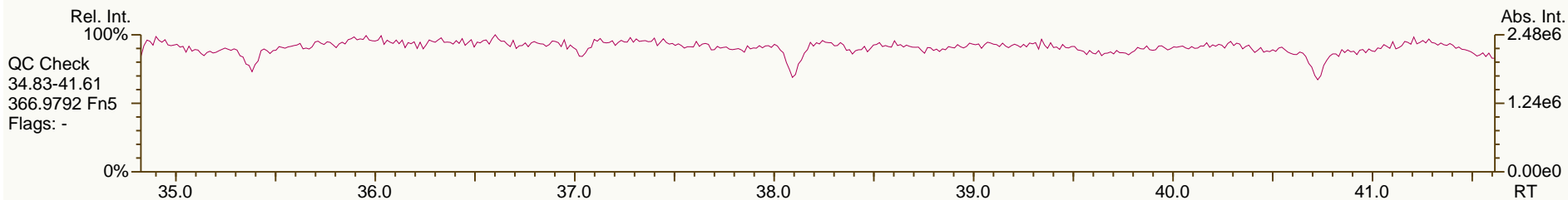
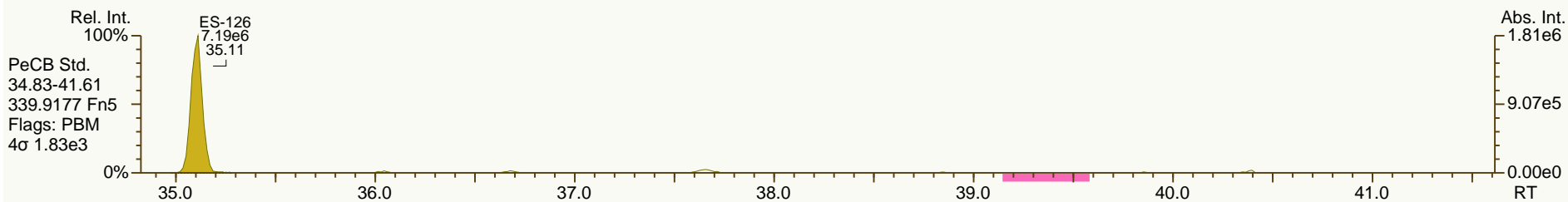
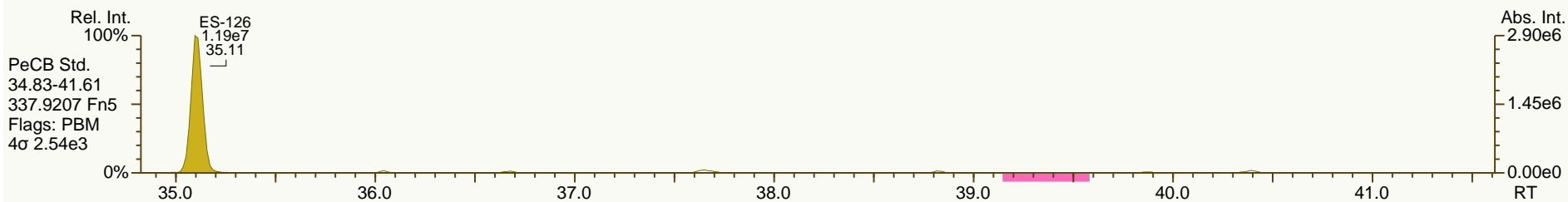
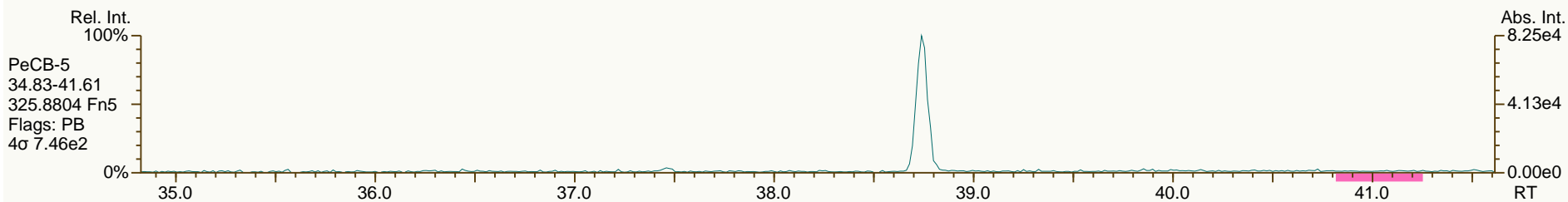
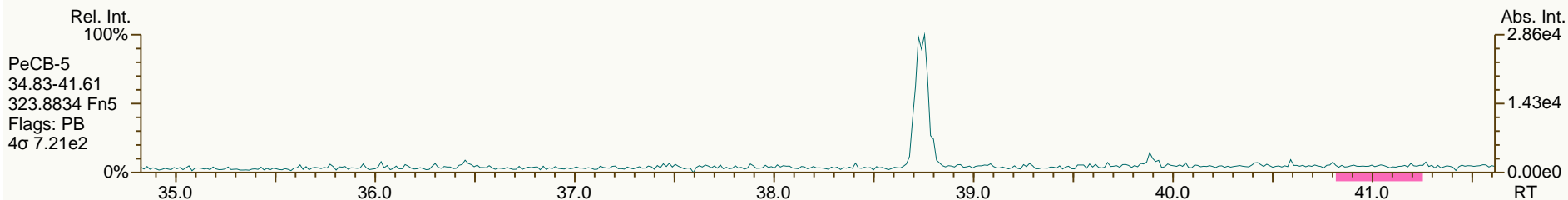
By Amy Boehm at 2:24 pm, Oct 10, 2013



SGS-AP ID: A5959_11364_PCB_001
Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-B-130426
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

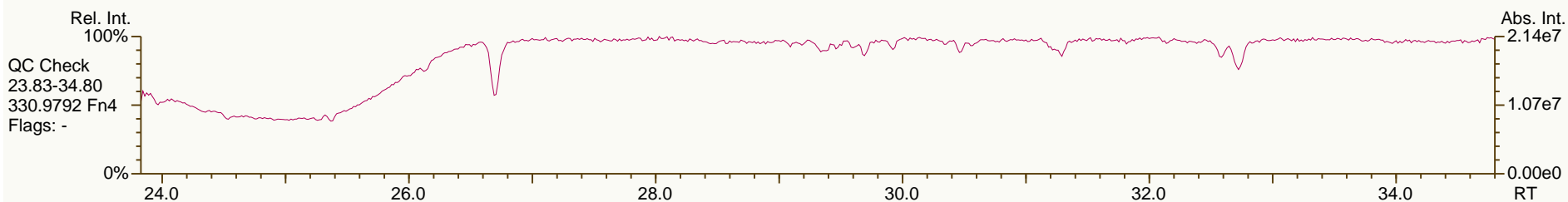
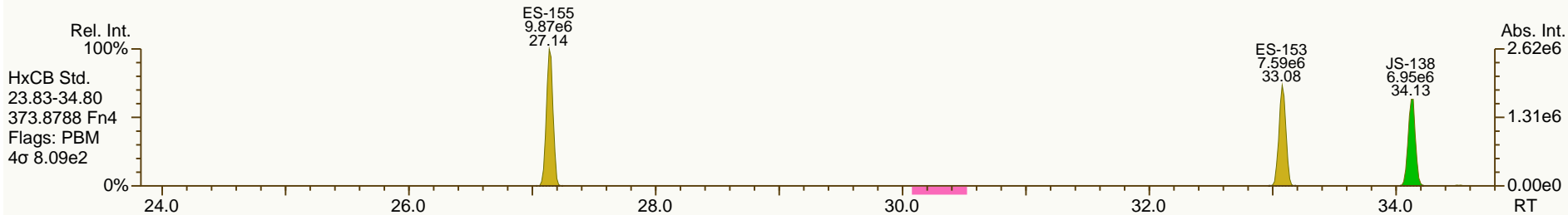
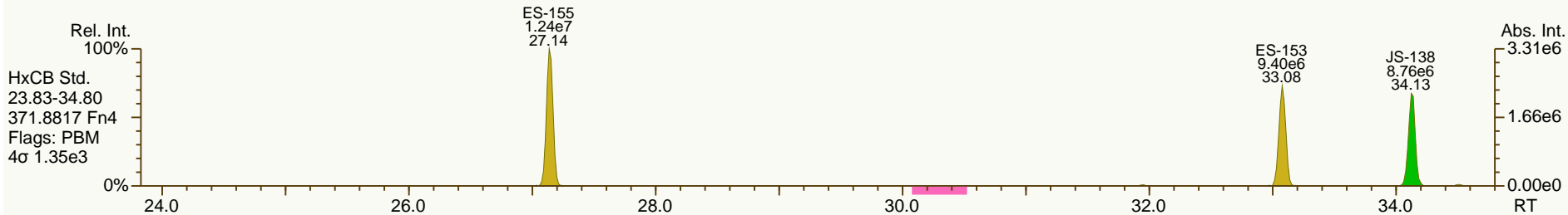
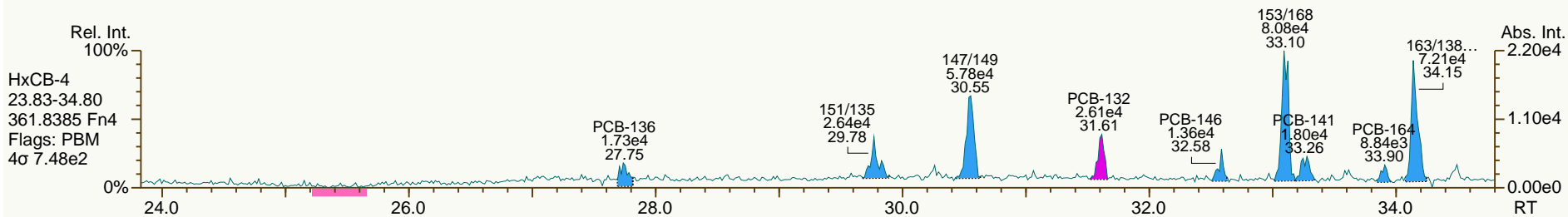
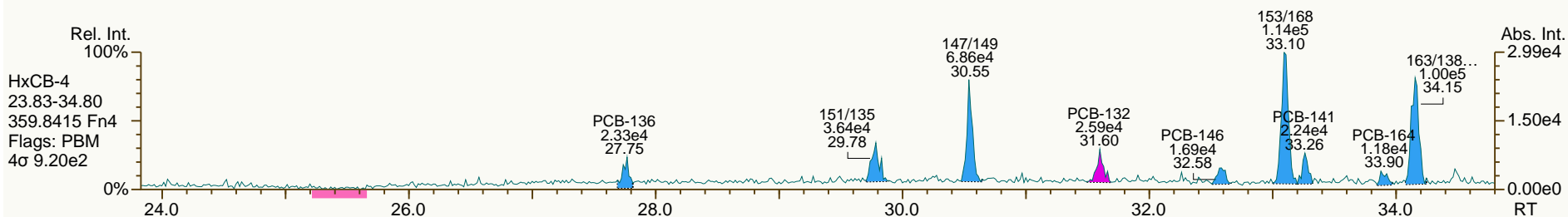
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SGS-AP ID: A5959_11364_PCB_001
Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-B-130426
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

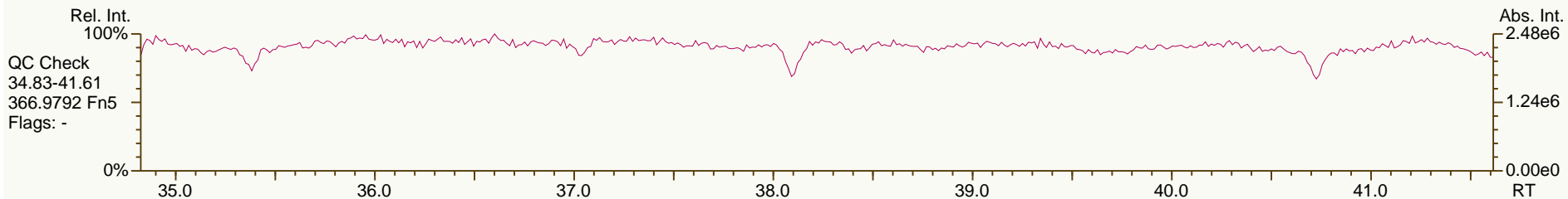
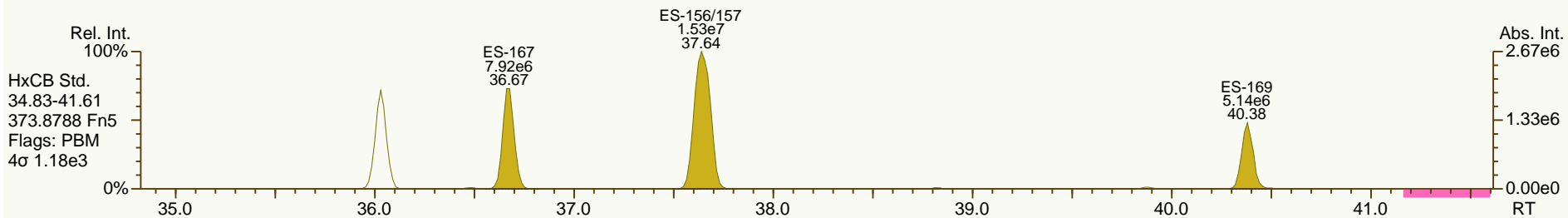
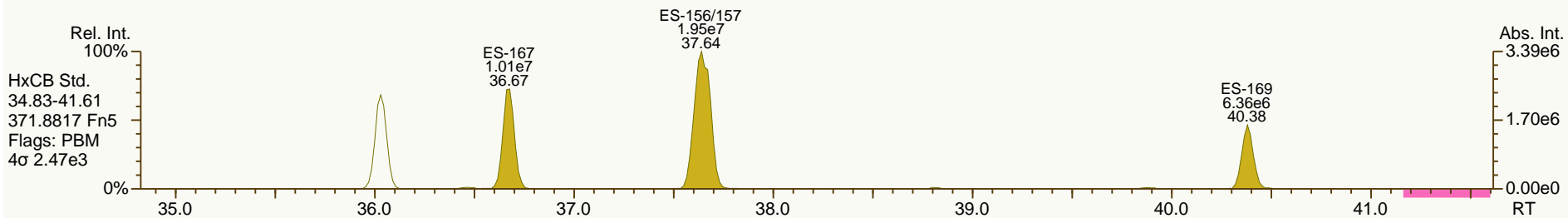
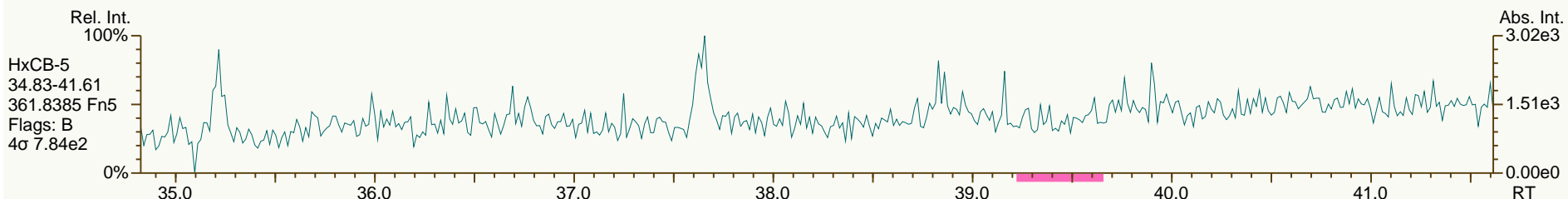
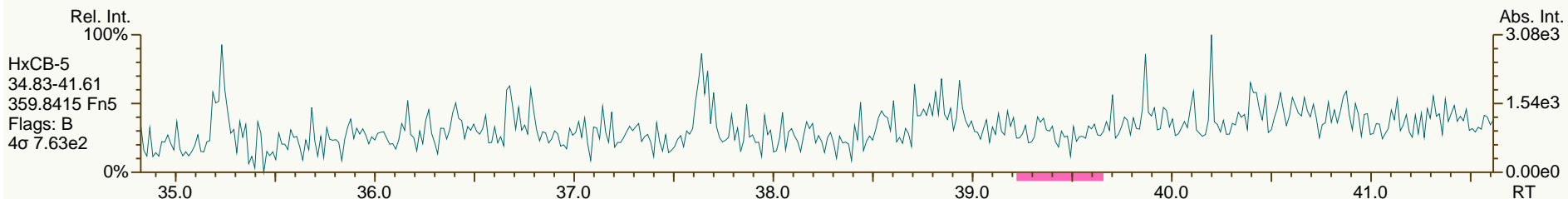
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SGS-AP ID: A5959_11364_PCB_001
 Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-B-130426
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

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 User: CTW Datafile: 131002S20



SGS-AP ID: A5959_11364_PCB_001
Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-B-130426
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

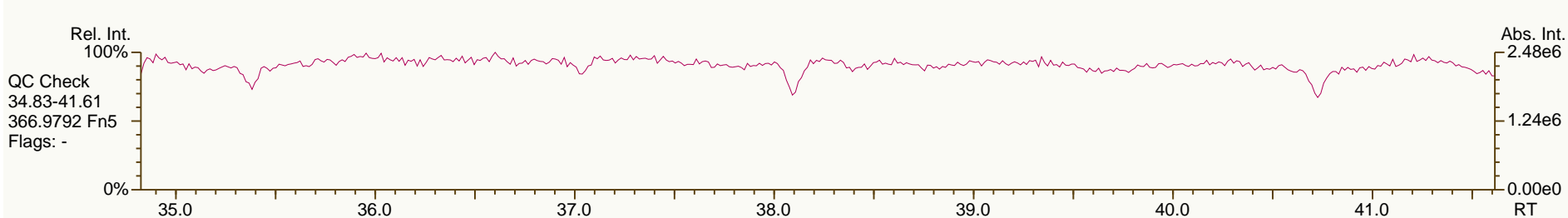
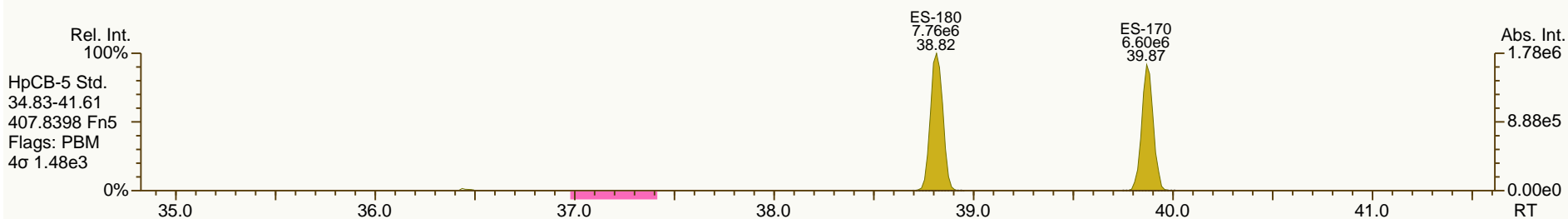
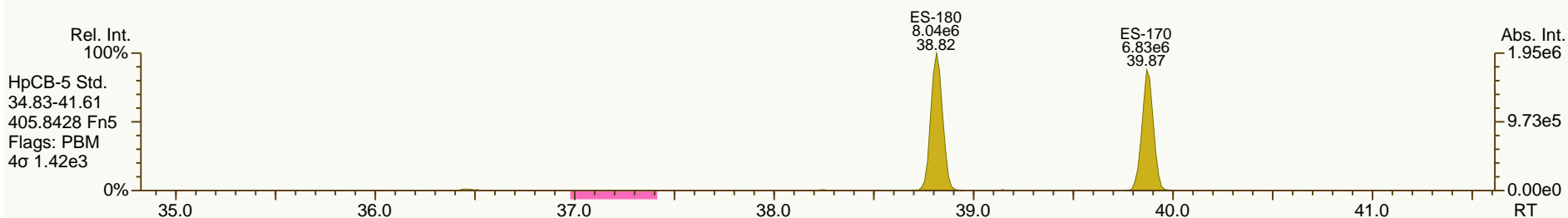
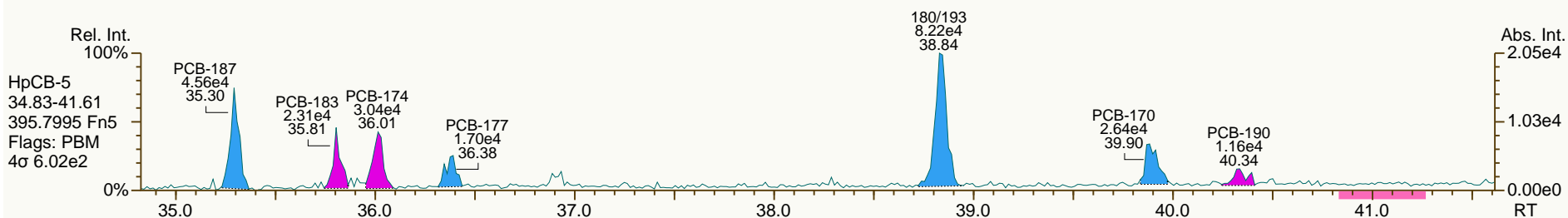
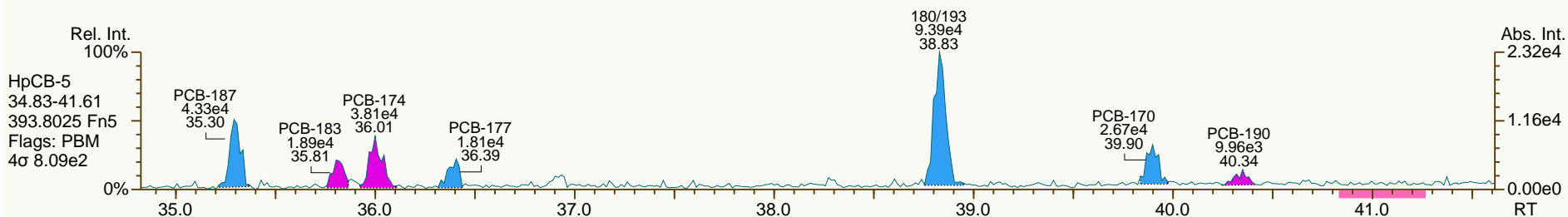
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SGS-AP ID: A5959_11364_PCB_001
Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-B-130426
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

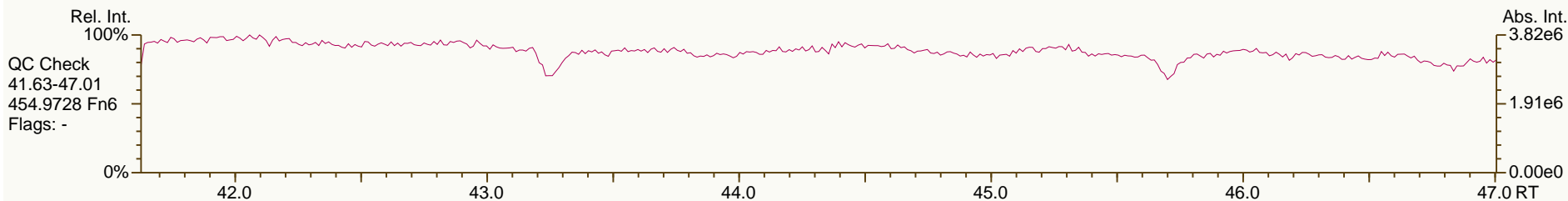
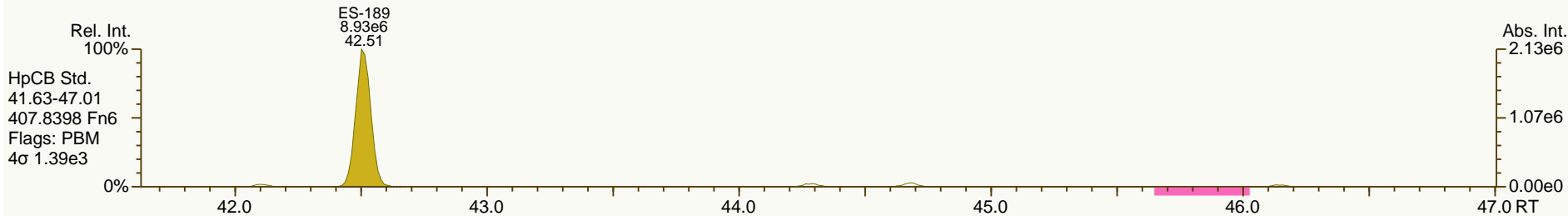
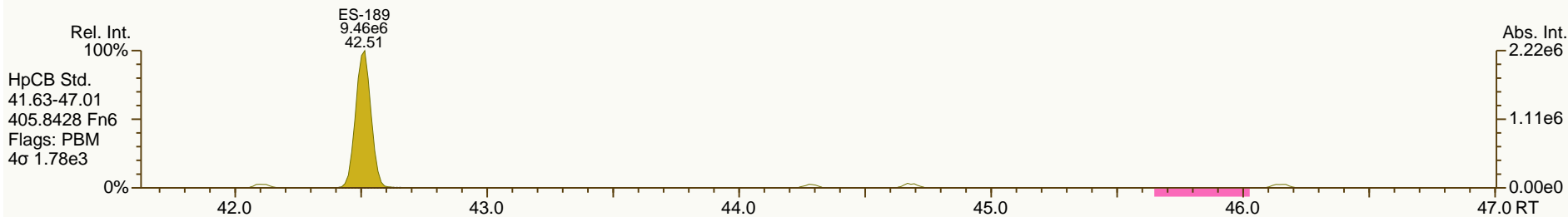
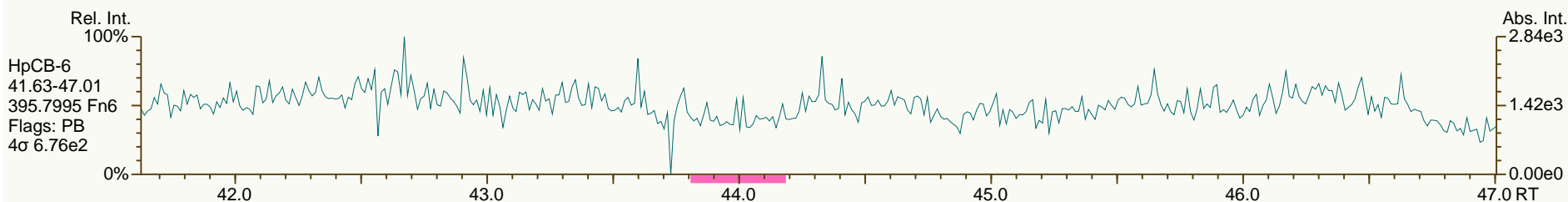
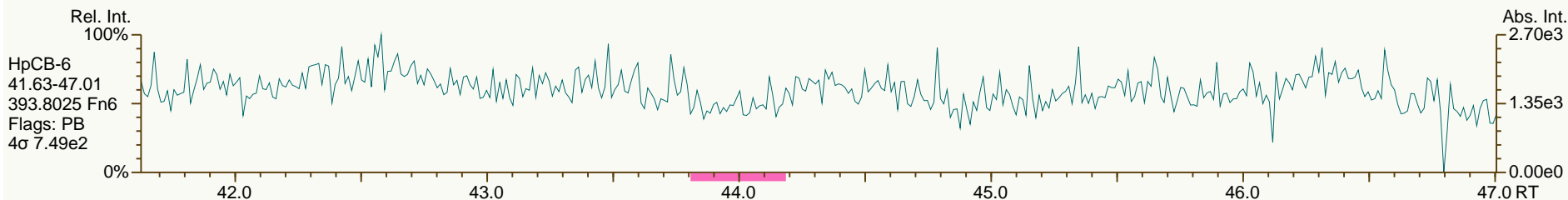
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SGS-AP ID: A5959_11364_PCB_001
Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-B-130426
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

Acq: 03-Oct-2013 04:49:48
User: CTW Datafile: 131002S20



SGS-AP ID: A5959_11364_PCB_001
Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-B-130426
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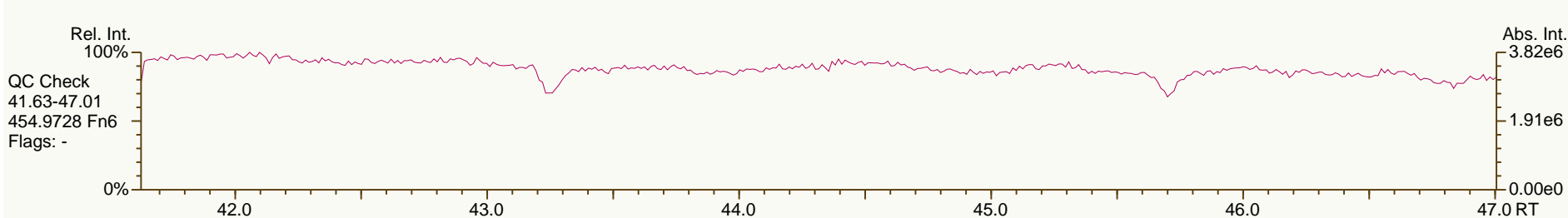
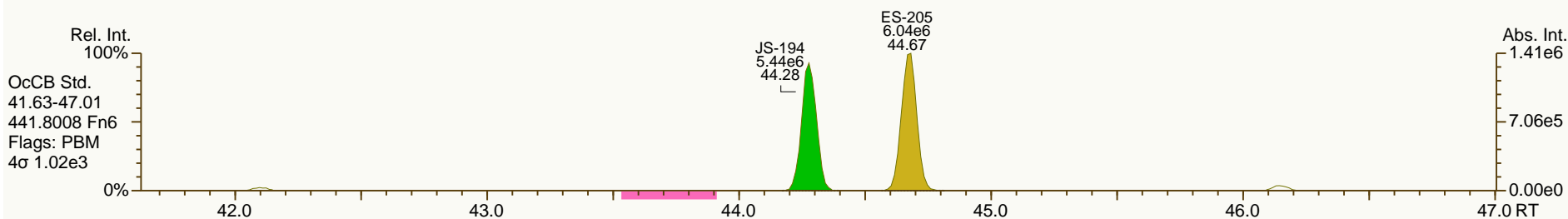
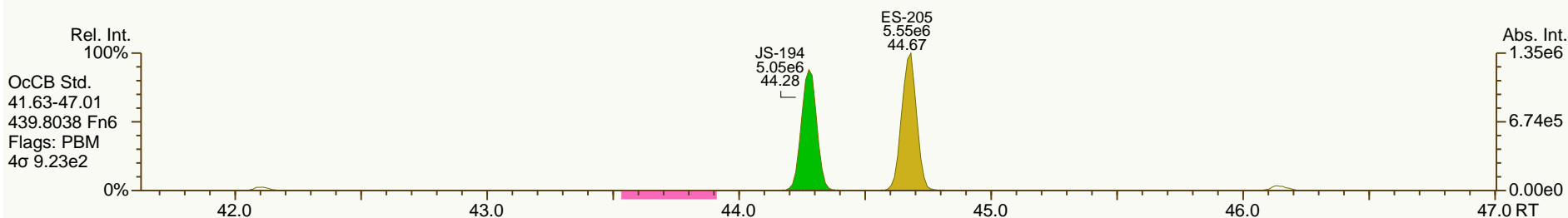
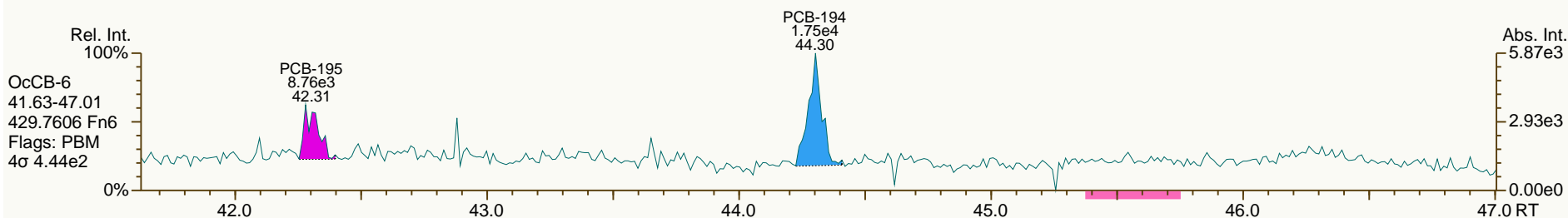
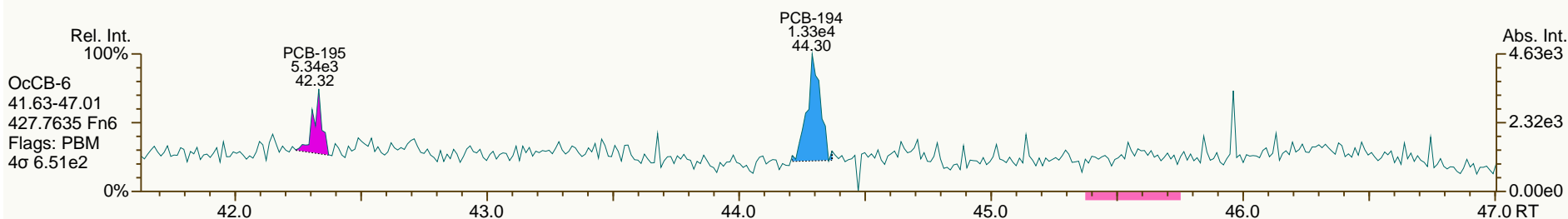
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SGS-AP ID: A5959_11364_PCB_001
Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-B-130426
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

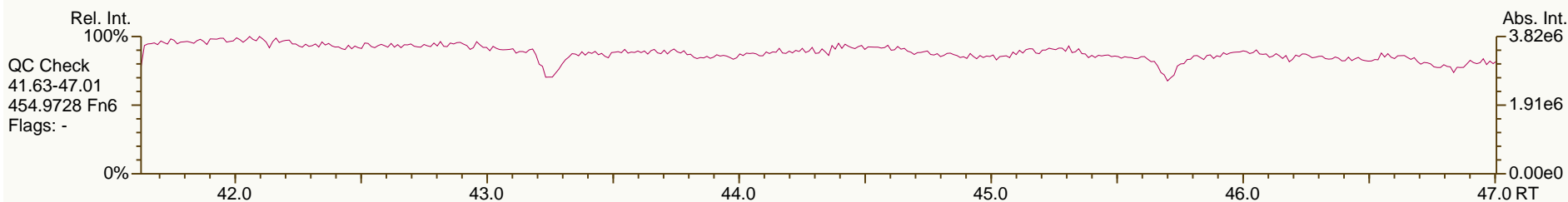
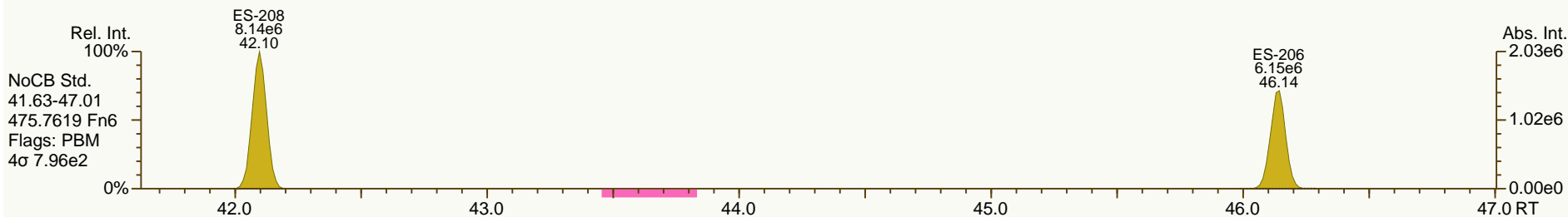
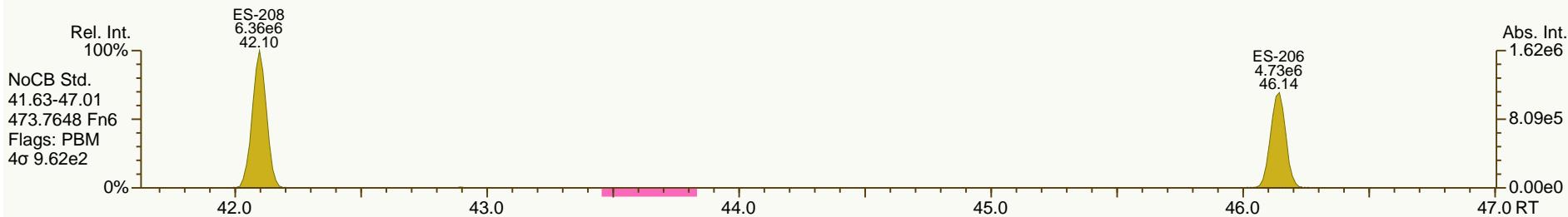
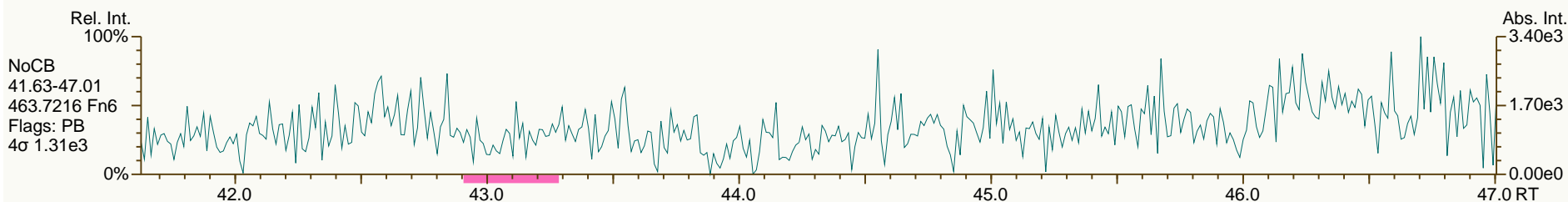
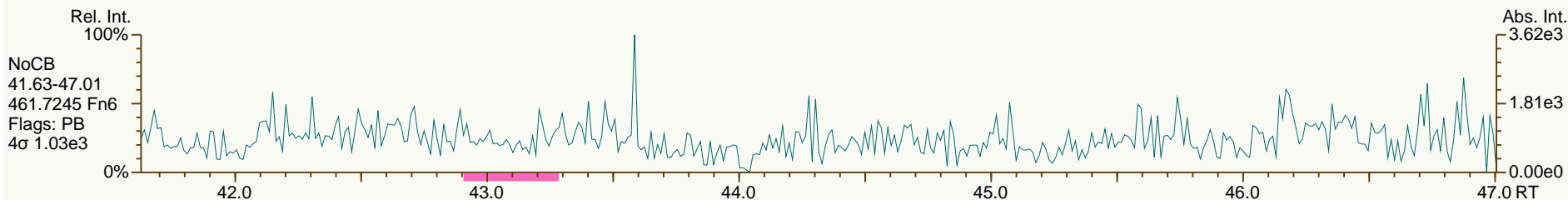
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SGS-AP ID: A5959_11364_PCB_001
Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-B-130426
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

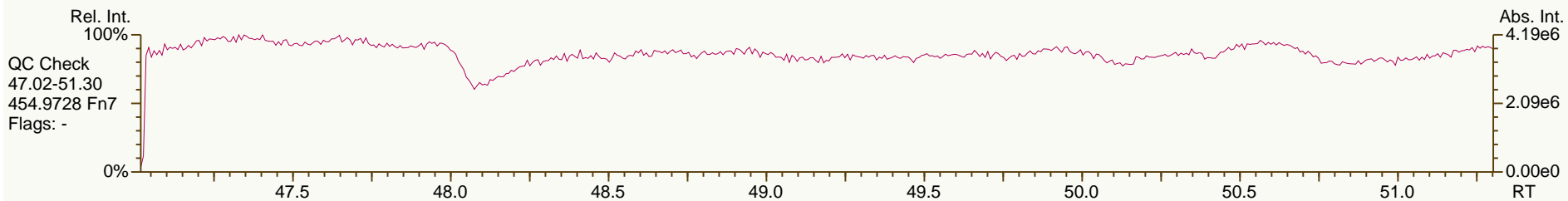
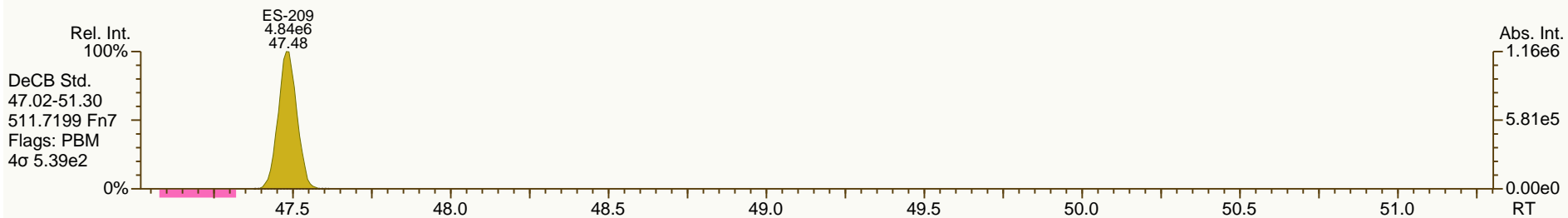
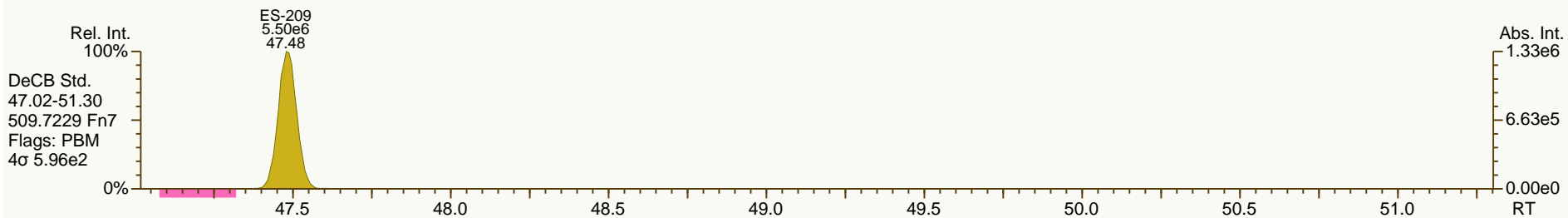
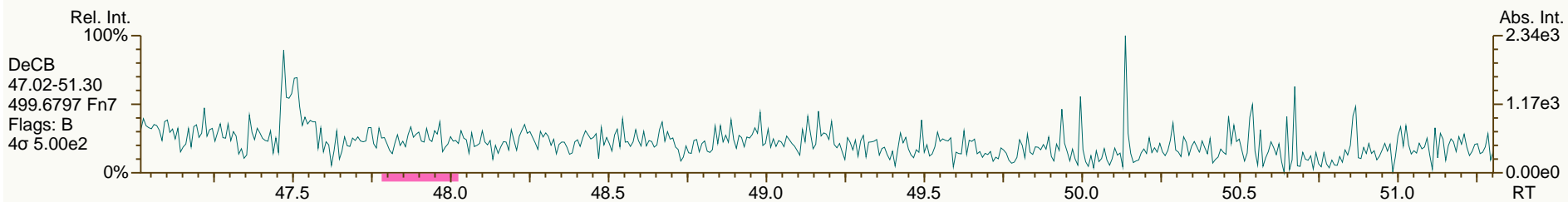
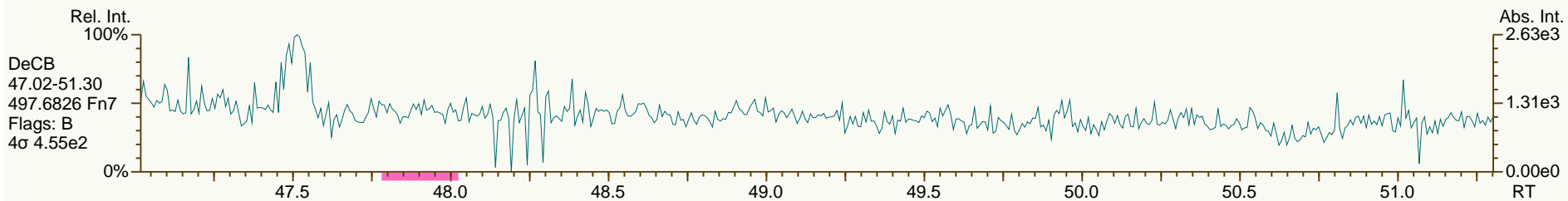
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SGS-AP ID: A5959_11364_PCB_001
 Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-B-130426
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 41

Acq: 03-Oct-2013 04:49:48
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Lab ID: A5959_11364_PCB_002

ACQ: 03-Oct-2013 05:45:48 CTW

Wt/Vol: 10.00 g

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Client ID: JW-EA09-SC36-C-130426

UTP: 09-Oct-2013 17:23 CTW

J-level: 1 pg/g Split: 1

Checkcode: 179-096-QGF

Datafile: 131002S21

RPT: 09-Oct-2013 17:24 CW

StdS (pg): JS: 2000 ES: 2000 CS/SS: 2000

Method HR-PCB

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	NotFnd		1.0006	-		0.00E+00		1.51	ND	2.33E+03	0.0858
PCB-81 344'5'-TeCB	NotFnd		1.0006	-		0.00E+00		1.27	ND	2.33E+03	0.0858
PCB-105 233'44'-PeCB	32.50	J EMPC	1.0007	1.0004	-0.6	5.05E+04	0.75	1.00	0.286	1.34E+03	0.0772
PCB-114 2344'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.06	ND	1.34E+03	0.0698
PCB-118 23'44'5'-PeCB	31.51	J B	1.0008	1.0006	-0.4	1.25E+05	0.61	1.01	0.71	1.34E+03	0.073
PCB-123 23'44'5'-PeCB	NotFnd		1.0007	-		0.00E+00		1.06	ND	1.34E+03	0.0708
PCB-126 33'44'5'-PeCB	NotFnd		1.0005	-		0.00E+00		1.26	ND	1.30E+03	0.0601
PCB-156/157 ...-HxCB	37.65	J C	1.0005	1.0004	-0.2	2.16E+04	1.26	1.06	0.133	1.22E+03	0.107
PCB-167 23'44'55'-HxCB	NotFnd		1.0006	-		0.00E+00		1.12	ND	1.22E+03	0.0733
PCB-169 33'44'55'-HxCB	NotFnd		1.0005	-		0.00E+00		1.09	ND	1.22E+03	0.117
PCB-189 233'44'55'-HpCB	NotFnd		1.0004	-		0.00E+00		1.15	ND	1.29E+03	0.0681
PCB-209 DeCB	47.50	J EMPC	1.0004	1.0005	+0.3	9.98E+03	1.68	1.03	0.099	9.10E+02	0.0935
ES PCB-1	10.02		0.7192	0.7218	+1.6	2.84E+07	3.21	1.04	46.3 %	25%	150%
ES PCB-3	11.96		0.8591	0.8611	+1.4	3.41E+07	3.23	0.99	58.5 %	25%	150%
ES PCB-4	12.16		0.8744	0.8758	+1.0	2.83E+07	1.56	0.71	67.7 %	25%	150%
ES PCB-15	17.28		1.2448	1.2447	-0.1	5.71E+07	1.59	1.09	88.9 %	25%	150%
ES PCB-19	14.86		1.0705	1.0702	-0.3	2.73E+07	1.04	0.59	78.5 %	25%	150%
ES PCB-37	23.32		1.0867	1.0870	+0.4	3.74E+07	1.08	1.32	77.8 %	25%	150%
ES PCB-54	17.52		0.8173	0.8168	-0.5	4.03E+07	0.76	1.35	81.8 %	25%	150%
ES PCB-77	29.53		1.3765	1.3763	-0.4	3.58E+07	0.80	1.07	91.9 %	25%	150%
ES PCB-81	29.05		1.3542	1.3542	0	4.18E+07	0.81	1.19	96.3 %	25%	150%
ES PCB-104	22.25		0.8156	0.8155	-0.1	4.20E+07	1.56	1.62	91.9 %	25%	150%
ES PCB-105	32.48		1.1904	1.1904	0	3.55E+07	1.57	1.30	96.7 %	25%	150%
ES PCB-114	31.94		1.1704	1.1704	0	3.54E+07	1.60	1.32	95.2 %	25%	150%
ES PCB-118	31.49		1.1540	1.1540	0	3.48E+07	1.53	1.30	94.6 %	25%	150%
ES PCB-123	31.21		1.1439	1.1438	-0.2	3.45E+07	1.56	1.26	97 %	25%	150%
ES PCB-126	35.10		1.2864	1.2863	-0.2	3.47E+07	1.60	1.41	87.4 %	25%	150%
ES PCB-153	33.07		0.9693	0.9692	-0.2	2.90E+07	1.23	1.15	89.5 %	25%	150%
ES PCB-155	27.09		0.7939	0.7939	0	3.89E+07	1.23	1.53	88.3 %	25%	150%
ES PCB-156/157	37.64		1.1032	1.1031	-0.2	6.11E+07	1.27	1.19	89.7 %	25%	150%
ES PCB-167	36.67		1.0747	1.0746	-0.2	3.10E+07	1.23	1.22	88.3 %	25%	150%
ES PCB-169	40.38		1.1833	1.1833	0	2.02E+07	1.24	1.18	59.6 %	25%	150%
ES PCB-170	39.87		0.9005	0.9005	0	2.38E+07	1.03	1.22	99 %	25%	150%
ES PCB-180	38.81		0.8766	0.8766	0	2.73E+07	1.05	1.41	98 %	25%	150%
ES PCB-188	31.93		0.7211	0.7211	0	4.69E+07	1.07	1.71	95.8 %	25%	150%
ES PCB-189	42.50		0.9601	0.9601	0	3.38E+07	1.03	1.84	94.3 %	25%	150%
ES PCB-202	36.46		0.8236	0.8236	0	3.75E+07	0.88	1.42	92.4 %	25%	150%
ES PCB-205	44.67		1.0089	1.0090	+0.3	2.18E+07	0.89	1.25	89.2 %	25%	150%
ES PCB-206	46.13		1.0420	1.0420	0	2.01E+07	0.79	1.24	83.7 %	25%	150%
ES PCB-208	42.09		0.9508	0.9508	0	2.59E+07	0.77	1.42	93.7 %	25%	150%
ES PCB-209	47.48		1.0725	1.0725	0	1.95E+07	1.20	1.23	81.3 %	25%	150%

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
SS PCB-28	19.88		0.9271	0.9268	-0.4	5.18E+07	1.08	1.06	130 %	30%	135%
SS PCB-111	29.56		1.0835	1.0834	-0.2	3.75E+07	1.54	1.06	102 %	30%	135%
SS PCB-178	34.51		1.0114	1.0114	0	2.91E+07	1.03	0.58	107 %	30%	135%
CS PCB-28	19.88		0.9271	0.9268	-0.4	5.18E+07	1.08	1.40	101 %	30%	135%
CS PCB-111	29.56		1.0835	1.0834	-0.2	3.75E+07	1.54	1.34	99.3 %	30%	135%
CS PCB-178	34.51		1.0114	1.0114	0	2.91E+07	1.03	0.99	102 %	30%	135%
JS PCB-9	13.88					5.90E+07	1.61				
JS PCB-52	21.45					3.65E+07	0.78				
JS PCB-101	27.29					2.82E+07	1.52				
JS PCB-138	34.12					2.87E+07	1.24				
JS PCB-194	44.27					1.95E+07	0.90				
			Totals			NON-EMPC		EMPC		DL	
			Mono-CBs			2.11		2.11		0.0985	
			Di-CBs			4.26		4.26		0.169	
			Tri-CBs			1.81		2.48		0.248	
			Tetra-CBs			9.38		9.6		0.0951	
			Penta-CBs			4.55		5.17		0.068	
			Hexa-CBs			7.37		7.49		0.0886	
			Hepta-CBs			3.1		4.41		0.0879	
			Octa-CBs			0.303		0.303		0.0903	
			Nona-CBs			0		0		0.2	
PCB-1 2-MoCB	10.03	J B	1.0011	1.0011	0	8.54E+04	2.75	1.20	0.502	3.18E+03	0.114
PCB-2 3-MoCB	11.81	B	0.9877	0.9874	-0.2	2.13E+05	3.08	1.20	1.04	3.18E+03	0.0854
PCB-3 4-MoCB	11.97	J B	1.0010	1.0010	0	1.20E+05	2.87	1.24	0.569	3.18E+03	0.0827
PCB-4 22'-DiCB	12.17	J	1.0012	1.0005	-0.5	3.62E+04	SI	0.97	0.263	3.95E+03	0.171
PCB-10 26-DiCB	NotFnd		1.0138	-		0.00E+00		1.45	ND	3.95E+03	0.115
PCB-9 25-DiCB	NotFnd		1.0011	-		0.00E+00		1.02	ND	7.03E+03	0.201
PCB-7 24-DiCB	NotFnd		1.0114	-		0.00E+00		1.20	ND	7.03E+03	0.17
PCB-6 23'-DiCB	NotFnd		1.0263	-		0.00E+00		1.11	ND	7.03E+03	0.184
PCB-5 23-DiCB	NotFnd		1.0455	-		0.00E+00		1.10	ND	7.03E+03	0.186
PCB-8 24'-DiCB	14.62	J	1.0534	1.0528	-0.5	1.14E+05	SI	1.14	0.352	7.03E+03	0.18
PCB-14 35-DiCB	NotFnd		0.9280	-		0.00E+00		1.31	ND	7.03E+03	0.156
PCB-11 33'-DiCB	16.76	B	0.9699	0.9699	0	1.09E+06	1.43	1.13	3.39	7.03E+03	0.181
PCB-13/12 34'/34-DiCB	NotFnd	C	0.9853	-		0.00E+00		1.15	ND	7.03E+03	0.178
PCB-15 44'-DiCB	17.29	J	1.0008	1.0008	0	8.89E+04	SI	1.23	0.253	7.03E+03	0.166
PCB-19 22'6-TrCB	NotFnd		1.0011	-		0.00E+00		0.97	ND	4.77E+03	0.268
PCB-30/18 246/22'5-TrCB	16.49	J C	1.1090	1.1100	+1.0	8.15E+04	1.19	1.28	0.467	4.77E+03	0.203
PCB-17 22'4-TrCB	NotFnd		1.1341	-		0.00E+00		1.10	ND	4.77E+03	0.237
PCB-27 23'6-TrCB	NotFnd		1.1466	-		0.00E+00		1.47	ND	4.77E+03	0.177
PCB-24 236-TrCB	NotFnd		1.1542	-		0.00E+00		1.42	ND	4.77E+03	0.183
PCB-16 22'3-TrCB	NotFnd		1.1604	-		0.00E+00		0.86	ND	4.77E+03	0.301

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	NotFnd		1.1906	-		0.00E+00		1.58	ND	4.77E+03	0.165
PCB-34 23'5'-TrCB	NotFnd		0.8062	-		0.00E+00		1.27	ND	5.48E+03	0.23
PCB-23 235-TrCB	NotFnd		0.8118	-		0.00E+00		1.31	ND	5.48E+03	0.223
PCB-26/29 23'5'/245-TrCB	NotFnd	C	0.8236	-		0.00E+00		1.30	ND	5.48E+03	0.224
PCB-25 23'4-TrCB	NotFnd		0.8317	-		0.00E+00		1.33	ND	5.48E+03	0.22
PCB-31 24'5-TrCB	19.66	J EMPC	0.8432	0.8430	-0.2	1.72E+05	1.22	1.38	0.668	5.48E+03	0.212
PCB-28/20 244'/233'-TrCB	19.90	J B C	0.8545	0.8535	-1.2	1.99E+05	1.08	1.28	0.829	5.48E+03	0.228
PCB-21/33 234/23'4'-TrCB	20.11	J C	0.8617	0.8625	+1.0	1.30E+05	1.02	1.35	0.515	5.48E+03	0.217
PCB-22 234'-TrCB	NotFnd		0.8772	-		0.00E+00		1.24	ND	5.48E+03	0.236
PCB-36 33'5-TrCB	NotFnd		0.9346	-		0.00E+00		1.35	ND	5.48E+03	0.217
PCB-39 34'5-TrCB	NotFnd		0.9476	-		0.00E+00		1.40	ND	5.48E+03	0.209
PCB-38 345-TrCB	NotFnd		0.9689	-		0.00E+00		1.26	ND	5.48E+03	0.231
PCB-35 33'4-TrCB	NotFnd		0.9859	-		0.00E+00		1.24	ND	5.48E+03	0.236
PCB-37 344'-TrCB	NotFnd		1.0009	-		0.00E+00		1.28	ND	5.48E+03	0.228
PCB-54 22'66'-TeCB	NotFnd		1.0010	-		0.00E+00		1.00	ND	1.98E+03	0.0805
PCB-50/53 22'46/22'56'-TeCB	NotFnd	C	0.9055	-		0.00E+00		0.81	ND	1.91E+03	0.111
PCB-45 22'36-TeCB	NotFnd		0.9315	-		0.00E+00		0.73	ND	1.91E+03	0.122
PCB-51 22'46'-TeCB	20.04	J B	0.9347	0.9342	-0.6	1.41E+05	0.88	0.79	0.848	1.91E+03	0.113
PCB-46 22'36'-TeCB	NotFnd		0.9440	-		0.00E+00		0.67	ND	1.91E+03	0.134
PCB-52 22'55'-TeCB	21.48	J B	1.0010	1.0011	+0.1	1.23E+05	0.71	0.79	0.744	1.91E+03	0.113
PCB-73 23'5'6-TeCB	NotFnd		1.0067	-		0.00E+00		1.03	ND	1.91E+03	0.0873
PCB-43 22'35-TeCB	NotFnd		1.0104	-		0.00E+00		0.69	ND	1.91E+03	0.129
PCB-69/49 23'46/22'45'-TeCB	21.89	J B C	1.0193	1.0203	+1.3	7.98E+04	0.80	0.95	0.4	1.91E+03	0.0939
PCB-48 22'45-TeCB	NotFnd		1.0316	-		0.00E+00		0.81	ND	1.91E+03	0.111
PCB-44/47/65 ...-TeCB	22.36	B C	1.0413	1.0422	+1.2	7.74E+05	0.78	0.85	4.36	1.91E+03	0.106
PCB-59/62/75 ...-TeCB	NotFnd	C	1.0536	-		0.00E+00		1.08	ND	1.91E+03	0.083
PCB-42 22'34'-TeCB	NotFnd		1.0613	-		0.00E+00		0.73	ND	1.91E+03	0.123
PCB-41 22'34-TeCB	NotFnd		1.0760	-		0.00E+00		0.67	ND	1.91E+03	0.133
PCB-71/40 23'4'6/22'33'-TeCB	23.19	J EMPC C	1.0807	1.0810	+0.4	3.69E+04	0.63	0.81	0.217	1.91E+03	0.11
PCB-64 234'6-TeCB	23.39	J	1.0897	1.0904	+1.0	5.36E+04	0.85	1.15	0.223	1.91E+03	0.078
PCB-72 23'55'-TeCB	NotFnd		0.8295	-		0.00E+00		1.32	ND	2.33E+03	0.0827
PCB-68 23'45'-TeCB	24.37	J B	0.8380	0.8388	+1.2	2.05E+05	0.83	1.44	0.679	2.33E+03	0.0757
PCB-57 233'5-TeCB	NotFnd		0.8502	-		0.00E+00		1.27	ND	2.33E+03	0.0858
PCB-58 233'5'-TeCB	NotFnd		0.8571	-		0.00E+00		1.33	ND	2.33E+03	0.0821
PCB-67 23'45-TeCB	NotFnd		0.8621	-		0.00E+00		1.38	ND	2.33E+03	0.0788
PCB-63 234'5-TeCB	NotFnd		0.8697	-		0.00E+00		1.41	ND	2.33E+03	0.0773
PCB-61/70/74/76 ...-TeCB	25.58	J B C	0.8793	0.8805	+1.8	2.80E+05	0.85	1.30	1.03	2.33E+03	0.0841
PCB-66 23'44'-TeCB	25.84	J	0.8890	0.8895	+0.8	1.65E+05	0.84	1.23	0.644	2.33E+03	0.0888
PCB-55 233'4-TeCB	NotFnd		0.8938	-		0.00E+00		1.26	ND	2.33E+03	0.0863
PCB-56 233'4'-TeCB	26.40	J	0.9086	0.9089	+0.5	7.50E+04	0.83	1.21	0.297	2.33E+03	0.0904
PCB-60 2344'-TeCB	26.58	J	0.9148	0.9150	+0.3	4.06E+04	0.78	1.27	0.153	2.33E+03	0.0859
PCB-80 33'55'-TeCB	NotFnd		0.9271	-		0.00E+00		1.46	ND	2.33E+03	0.0747
PCB-79 33'45'-TeCB	NotFnd		0.9716	-		0.00E+00		1.49	ND	2.33E+03	0.073
PCB-78 33'45-TeCB	NotFnd		0.9878	-		0.00E+00		1.22	ND	2.33E+03	0.0893
PCB-104 22'466'-PeCB	NotFnd		1.0010	-		0.00E+00		1.06	ND	1.37E+03	0.0572
PCB-96 22'366'-PeCB	NotFnd		1.0150	-		0.00E+00		0.87	ND	1.37E+03	0.069
PCB-103 22'45'6-PeCB	NotFnd		0.8886	-		0.00E+00		0.85	ND	1.34E+03	0.0886
PCB-94 22'356'-PeCB	NotFnd		0.8954	-		0.00E+00		0.75	ND	1.34E+03	0.1

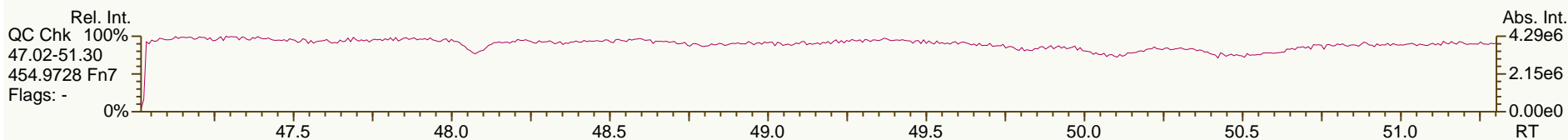
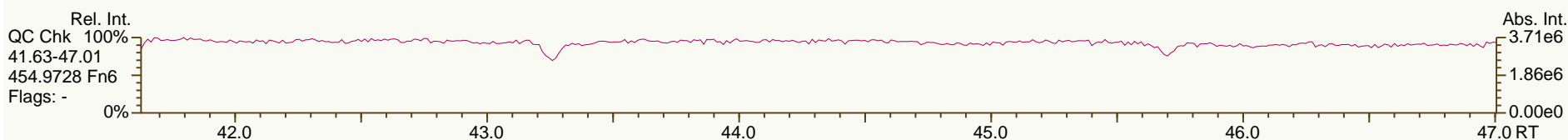
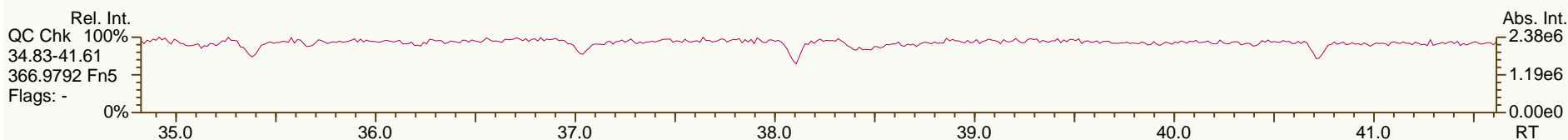
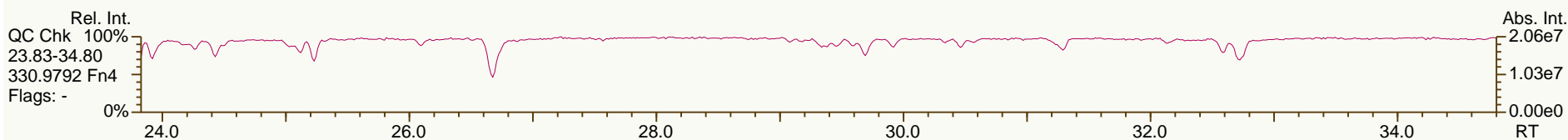
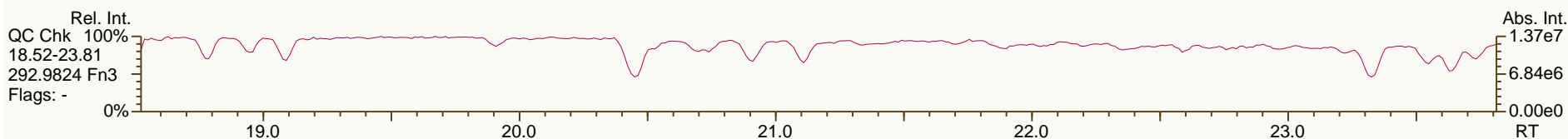
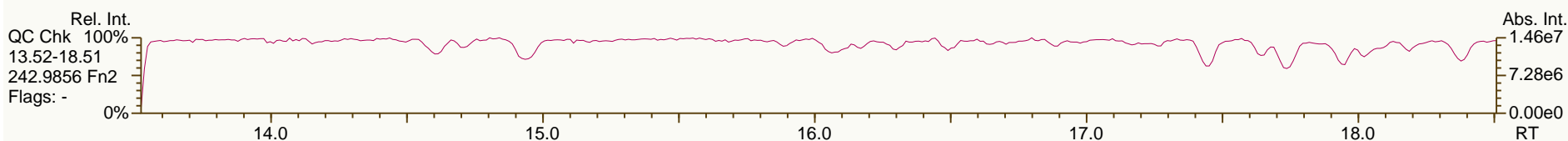
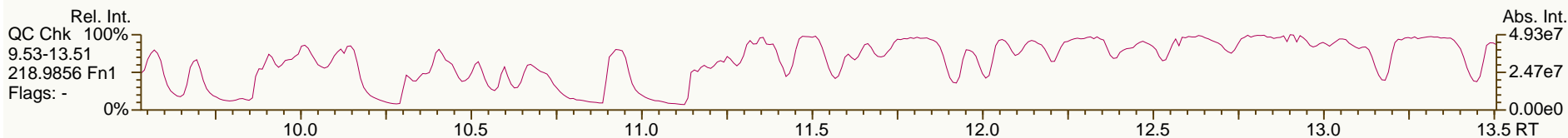
Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	24.83	J B	0.9092	0.9099	+1.0	9.70E+04	0.64	0.79	0.708	1.34E+03	0.0947
PCB-100/93 22'44'6/22'356-PeCB	NotFnd	C	0.9162	-		0.00E+00		0.83	ND	1.34E+03	0.0909
PCB-102 22'456'-PeCB	NotFnd		0.9204	-		0.00E+00		0.81	ND	1.34E+03	0.0924
PCB-98 22'34'6'-PeCB	NotFnd		0.9226	-		0.00E+00		0.80	ND	1.34E+03	0.0941
PCB-88 22'346-PeCB	NotFnd		0.9331	-		0.00E+00		0.73	ND	1.34E+03	0.102
PCB-91 22'34'6-PeCB	NotFnd		0.9360	-		0.00E+00		0.89	ND	1.34E+03	0.0847
PCB-84 22'33'6-PeCB	25.74	J EMPC	0.9429	0.9433	+0.6	2.45E+04	0.74	0.69	0.207	1.34E+03	0.109
PCB-89 22'346'-PeCB	NotFnd		0.9577	-		0.00E+00		0.73	ND	1.34E+03	0.103
PCB-121 23'45'6-PeCB	NotFnd		0.9710	-		0.00E+00		1.09	ND	1.34E+03	0.069
PCB-92 22'355'-PeCB	26.82	J EMPC	0.9827	0.9830	+0.5	1.77E+04	0.87	0.77	0.133	1.34E+03	0.0976
PCB-113/90/101 ...-PeCB	27.31	J B C	1.0000	1.0007	+1.1	1.41E+05	0.60	0.90	0.913	1.34E+03	0.0839
PCB-83 22'33'5-PeCB	NotFnd		1.0154	-		0.00E+00		0.70	ND	1.34E+03	0.108
PCB-99 22'44'5-PeCB	27.80	J	1.0187	1.0187	0	4.71E+04	0.58	0.82	0.332	1.34E+03	0.0915
PCB-112 233'56-PeCB	NotFnd		1.0224	-		0.00E+00		1.04	ND	1.34E+03	0.0722
PCB-108/119/86/97/125...-PeCB	28.27	J C	1.0348	1.0359	+1.9	8.67E+04	0.67	0.90	0.557	1.34E+03	0.0834
PCB-117 234'56-PeCB	NotFnd		1.0539	-		0.00E+00		0.95	ND	1.34E+03	0.0789
PCB-116/85 23456/22'344'-PeCB	28.83	J C	1.0565	1.0567	+0.3	2.30E+04	0.57	0.94	0.142	1.34E+03	0.0802
PCB-110 233'4'6-PeCB	28.98	B	1.0620	1.0619	-0.2	1.61E+05	0.67	0.90	1.04	1.34E+03	0.0837
PCB-115 2344'6-PeCB	NotFnd		1.0644	-		0.00E+00		1.18	ND	1.34E+03	0.0635
PCB-82 22'33'4-PeCB	29.23	J	1.0717	1.0713	-0.7	1.68E+04	0.70	0.67	0.146	1.34E+03	0.113
PCB-111 233'55'-PeCB	NotFnd		1.0843	-		0.00E+00		1.10	ND	1.34E+03	0.068
PCB-120 23'455'-PeCB	NotFnd		1.0986	-		0.00E+00		1.11	ND	1.34E+03	0.0674
PCB-107/124 ...-PeCB	NotFnd	C	0.9910	-		0.00E+00		1.01	ND	1.34E+03	0.0743
PCB-109 233'46-PeCB	NotFnd		0.9975	-		0.00E+00		1.06	ND	1.34E+03	0.0709
PCB-106 233'45-PeCB	NotFnd		1.0038	-		0.00E+00		0.99	ND	1.34E+03	0.0756
PCB-122 233'4'5'-PeCB	NotFnd		1.0099	-		0.00E+00		0.94	ND	1.34E+03	0.0785
PCB-127 33'455'-PeCB	NotFnd		1.0393	-		0.00E+00		1.03	ND	1.34E+03	0.0746
PCB-155 22'44'66'-HxCB	NotFnd		1.0008	-		0.00E+00		1.12	ND	1.34E+03	0.0563
PCB-152 22'3566'-HxCB	NotFnd		1.0068	-		0.00E+00		1.05	ND	1.34E+03	0.0605
PCB-150 22'34'66'-HxCB	NotFnd		1.0121	-		0.00E+00		1.04	ND	1.34E+03	0.0606
PCB-136 22'33'66'-HxCB	27.72	J	1.0233	1.0233	0	5.71E+04	1.14	0.97	0.304	1.34E+03	0.0655
PCB-145 22'3466'-HxCB	NotFnd		1.0326	-		0.00E+00		0.98	ND	1.34E+03	0.0643
PCB-148 22'34'56'-HxCB	NotFnd		1.0801	-		0.00E+00		1.05	ND	1.34E+03	0.0873
PCB-151/135 ...-HxCB	29.76	J C	1.0993	1.0985	-1.4	1.02E+05	1.39	1.02	0.694	1.34E+03	0.0899
PCB-154 22'44'56'-HxCB	NotFnd		1.1066	-		0.00E+00		1.13	ND	1.34E+03	0.0808
PCB-144 22'345'6-HxCB	30.24	J EMPC	1.1162	1.1162	0	1.67E+04	1.45	1.02	0.113	1.34E+03	0.0893
PCB-147/149 ...-HxCB	30.53	J B C	1.1274	1.1272	-0.4	2.35E+05	1.25	1.03	1.57	1.34E+03	0.0883
PCB-134 22'33'56-HxCB	NotFnd		1.1335	-		0.00E+00		0.80	ND	1.34E+03	0.114
PCB-143 22'3456'-HxCB	NotFnd		1.1364	-		0.00E+00		1.04	ND	1.34E+03	0.0878
PCB-139/140 ...-HxCB	NotFnd	C	1.1460	-		0.00E+00		1.06	ND	1.34E+03	0.086
PCB-131 22'33'46-HxCB	NotFnd		1.1522	-		0.00E+00		0.92	ND	1.34E+03	0.099
PCB-142 22'3456-HxCB	NotFnd		1.1570	-		0.00E+00		0.93	ND	1.34E+03	0.0981
PCB-132 22'33'46'-HxCB	31.59	J	1.1665	1.1663	-0.4	7.32E+04	1.17	0.95	0.53	1.34E+03	0.0961
PCB-133 22'33'55'-HxCB	NotFnd		1.1825	-		0.00E+00		1.00	ND	1.34E+03	0.0911
PCB-165 233'55'6-HxCB	NotFnd		0.9486	-		0.00E+00		1.21	ND	1.34E+03	0.0754
PCB-146 22'34'55'-HxCB	32.57	J	0.9548	0.9546	-0.4	4.05E+04	1.23	1.08	0.258	1.34E+03	0.0843
PCB-161 233'45'6-HxCB	NotFnd		0.9581	-		0.00E+00		1.36	ND	1.34E+03	0.0673
PCB-153/168 ...-HxCB	33.09	J B C	0.9705	0.9698	-1.4	2.83E+05	1.24	1.26	1.54	1.34E+03	0.0724

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	33.26	J	0.9747	0.9747	0	6.80E+04	1.21	0.98	0.476	1.34E+03	0.0929
PCB-130 22'33'45'-HxCB	NotFnd		0.9848	-		0.00E+00		0.88	ND	1.34E+03	0.104
PCB-137 22'344'5'-HxCB	NotFnd		0.9903	-		0.00E+00		1.01	ND	1.34E+03	0.0901
PCB-164 233'4'5'6'-HxCB	NotFnd		0.9931	-		0.00E+00		1.33	ND	1.34E+03	0.0689
PCB-163/138/129 ...-HxCB	34.15	J B C	1.0013	1.0008	-1.0	2.54E+05	1.27	1.03	1.7	1.34E+03	0.0887
PCB-160 233'456-HxCB	NotFnd		1.0048	-		0.00E+00		1.34	ND	1.34E+03	0.068
PCB-158 233'44'6'-HxCB	34.47	J	1.0104	1.0103	-0.2	3.43E+04	1.28	1.38	0.172	1.34E+03	0.0663
PCB-128/166 ...-HxCB	NotFnd	C	0.9599	-		0.00E+00		0.90	ND	1.22E+03	0.0909
PCB-159 233'455'-HxCB	NotFnd		0.9830	-		0.00E+00		1.08	ND	1.22E+03	0.0759
PCB-162 233'4'55'-HxCB	NotFnd		0.9897	-		0.00E+00		1.10	ND	1.22E+03	0.0747
PCB-188 22'34'566'-HpCB	NotFnd		1.0007	-		0.00E+00		0.97	ND	1.42E+03	0.0619
PCB-179 22'33'566'-HpCB	32.23	J	1.0096	1.0096	0	7.46E+04	1.10	0.89	0.36	1.42E+03	0.0678
PCB-184 22'344'66'-HpCB	NotFnd		1.0236	-		0.00E+00		0.88	ND	1.42E+03	0.0685
PCB-176 22'33'466'-HpCB	32.98	J EMPC	1.0329	1.0331	+0.4	2.15E+04	0.88	0.97	0.0948	1.42E+03	0.0621
PCB-186 22'34566'-HpCB	NotFnd		1.0449	-		0.00E+00		0.91	ND	1.42E+03	0.066
PCB-178 22'33'55'6'-HpCB	34.53	J	1.0815	1.0817	+0.4	2.33E+04	1.03	0.68	0.146	1.42E+03	0.0884
PCB-175 22'33'45'6'-HpCB	NotFnd		1.0983	-		0.00E+00		0.96	ND	1.41E+03	0.108
PCB-187 22'34'55'6'-HpCB	35.30	J B EMPC	1.1055	1.1055	0	8.72E+04	1.27	1.00	0.636	1.41E+03	0.103
PCB-182 22'344'56'-HpCB	NotFnd		1.1108	-		0.00E+00		1.04	ND	1.41E+03	0.0996
PCB-183 22'344'5'6'-HpCB	35.81	J EMPC	1.1217	1.1215	-0.4	3.72E+04	0.81	1.00	0.273	1.41E+03	0.104
PCB-185 22'3455'6'-HpCB	35.87	J	1.1242	1.1236	-1.3	1.50E+04	1.04	1.03	0.107	1.41E+03	0.101
PCB-174 22'33'456'-HpCB	36.01	J B	1.1278	1.1277	-0.2	8.06E+04	1.01	0.88	0.675	1.41E+03	0.118
PCB-177 22'33'45'6'-HpCB	36.37	J EMPC	1.1394	1.1393	-0.2	3.72E+04	1.34	0.87	0.313	1.41E+03	0.119
PCB-181 22'344'56'-HpCB	NotFnd		1.1499	-		0.00E+00		1.00	ND	1.41E+03	0.104
PCB-171/173 ...-HpCB	NotFnd	C	1.1556	-		0.00E+00		0.88	ND	1.41E+03	0.118
PCB-172 22'33'455'-HpCB	NotFnd		0.9006	-		0.00E+00		0.91	ND	1.41E+03	0.114
PCB-192 233'455'6'-HpCB	NotFnd		0.9062	-		0.00E+00		1.17	ND	1.41E+03	0.0888
PCB-180/193 ...-HpCB	38.83	J B C	0.9129	0.9135	+1.4	1.97E+05	1.03	1.11	1.29	1.41E+03	0.0931
PCB-191 233'44'5'6'-HpCB	NotFnd		0.9205	-		0.00E+00		1.22	ND	1.41E+03	0.0849
PCB-170 22'33'44'5'-HpCB	39.89	J	0.9385	0.9385	0	6.30E+04	1.09	1.02	0.517	1.41E+03	0.118
PCB-190 233'44'56'-HpCB	NotFnd		0.9489	-		0.00E+00		1.36	ND	1.41E+03	0.0883
PCB-202 22'33'55'66'-OoCB	NotFnd		1.0006	-		0.00E+00		0.83	ND	1.42E+03	0.0879
PCB-201 22'33'45'66'-OoCB	NotFnd		1.0219	-		0.00E+00		0.93	ND	1.42E+03	0.0786
PCB-204 22'344'566'-OoCB	NotFnd		1.0375	-		0.00E+00		0.87	ND	1.42E+03	0.0842
PCB-197 22'33'44'66'-OoCB	NotFnd		1.0428	-		0.00E+00		1.00	ND	1.42E+03	0.0731
PCB-200 22'33'4566'-OoCB	NotFnd		1.0453	-		0.00E+00		0.89	ND	1.42E+03	0.0823
PCB-198/199 ...-OoCB	NotFnd	C	1.1098	-		0.00E+00		0.67	ND	1.42E+03	0.11
PCB-196 22'33'44'56'-OoCB	NotFnd		1.1254	-		0.00E+00		0.70	ND	1.42E+03	0.105
PCB-203 22'344'55'6'-OoCB	NotFnd		1.1300	-		0.00E+00		0.72	ND	1.42E+03	0.102
PCB-195 22'33'44'56'-OoCB	NotFnd		0.9473	-		0.00E+00		0.83	ND	1.11E+03	0.121
PCB-194 22'33'44'55'-OoCB	44.30	J	0.9916	0.9917	+0.3	3.00E+04	0.98	0.91	0.303	1.11E+03	0.11
PCB-205 233'44'55'6'-OoCB	NotFnd		1.0004	-		0.00E+00		1.08	ND	1.11E+03	0.0927
PCB-208 22'33'455'66'-NoCB	NotFnd		1.0005	-		0.00E+00		0.99	ND	1.97E+03	0.157
PCB-207 22'33'44'566'-NoCB	NotFnd		1.0191	-		0.00E+00		1.03	ND	1.97E+03	0.151
PCB-206 22'33'44'55'6'-NoCB	NotFnd		1.0004	-		0.00E+00		0.83	ND	1.97E+03	0.243

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Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-C-130426
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 42

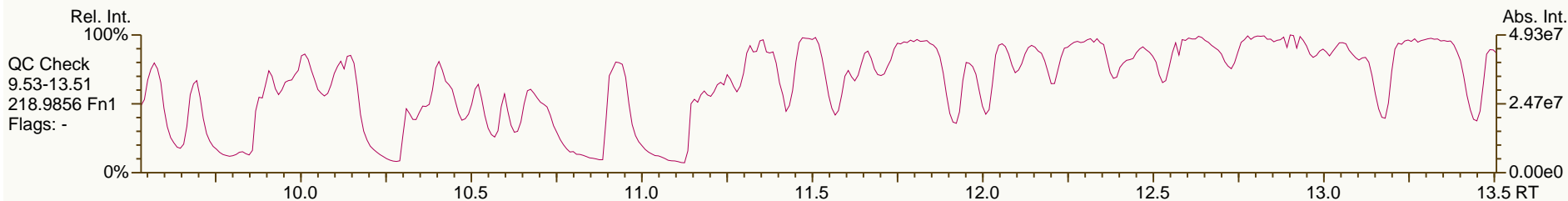
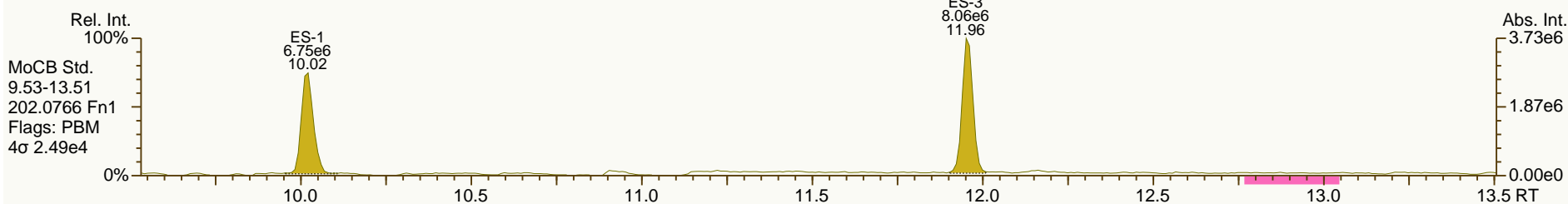
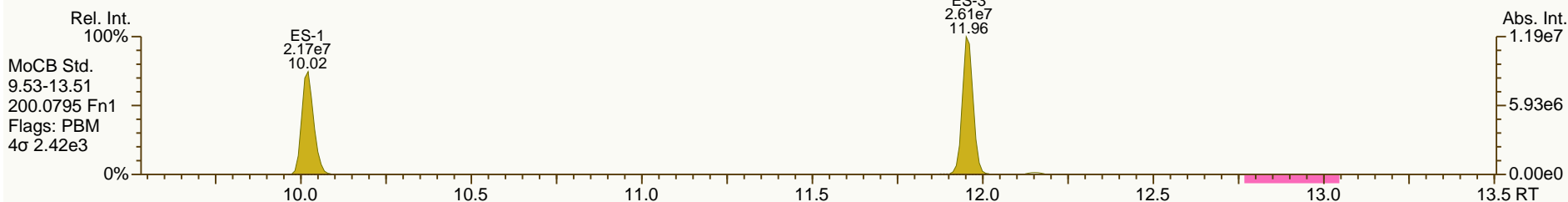
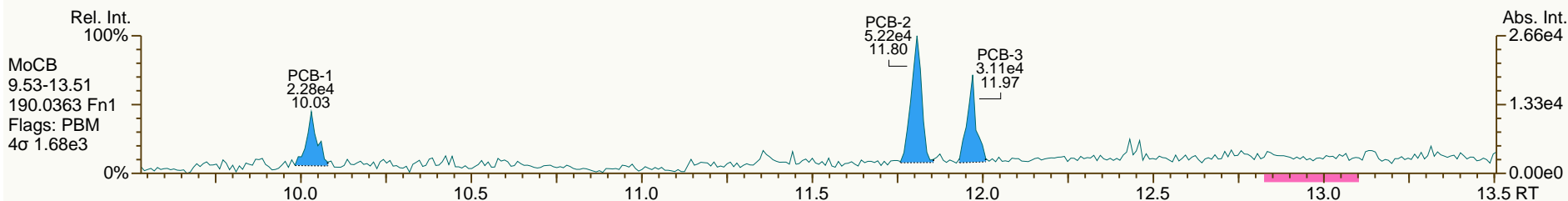
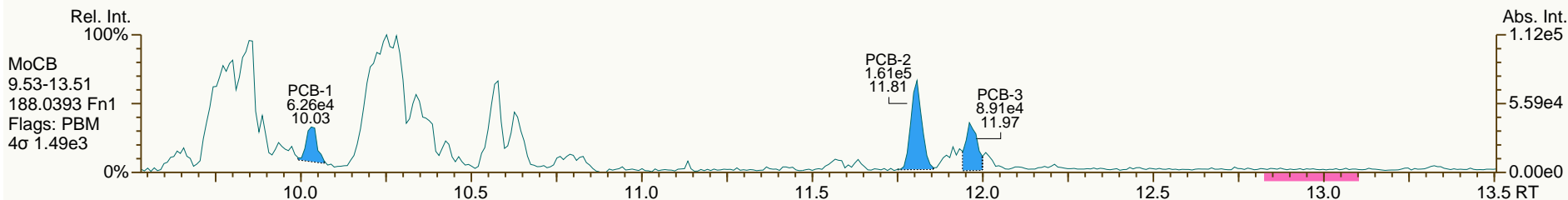
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SGS-AP ID: A5959_11364_PCB_002
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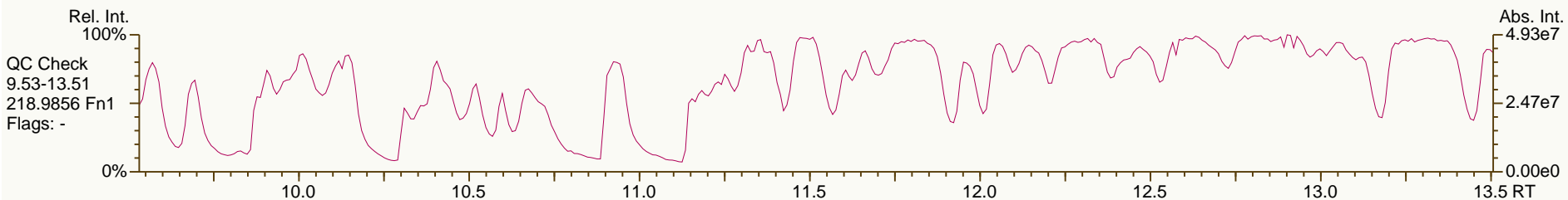
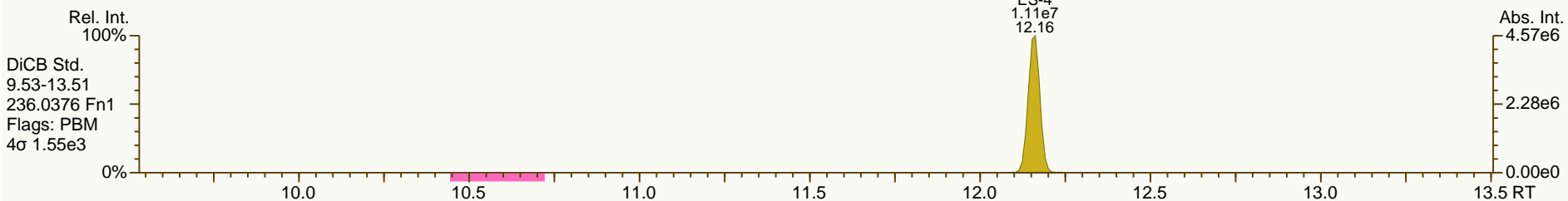
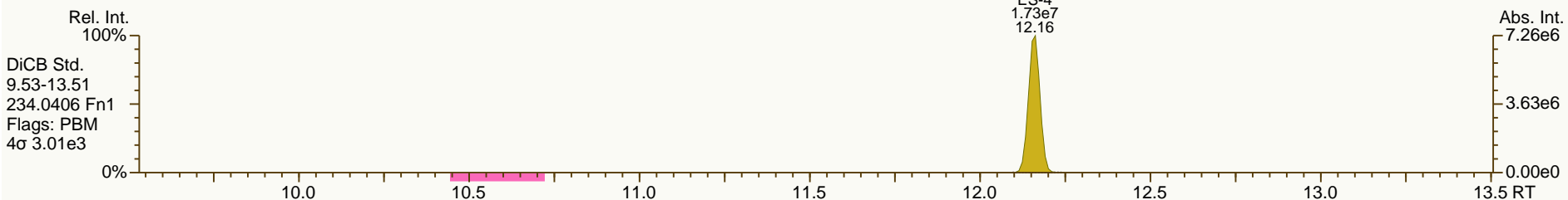
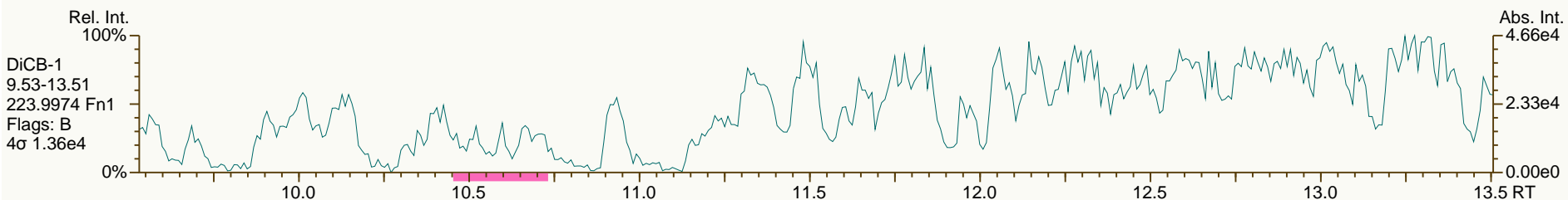
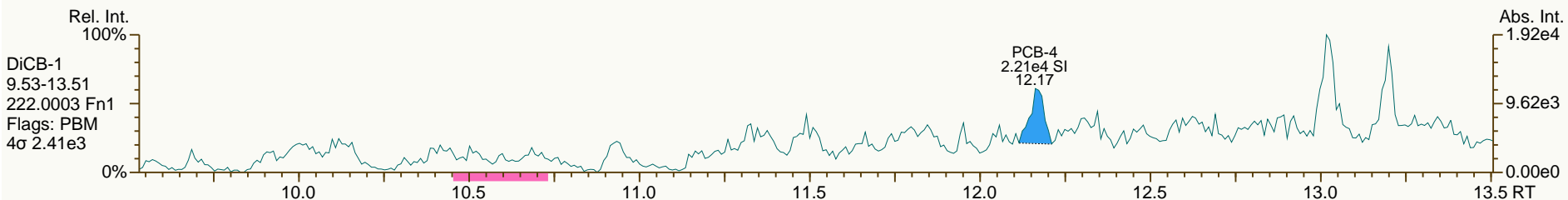
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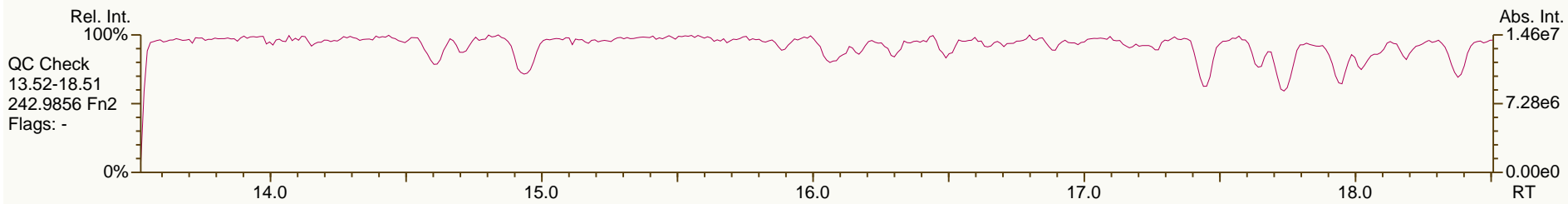
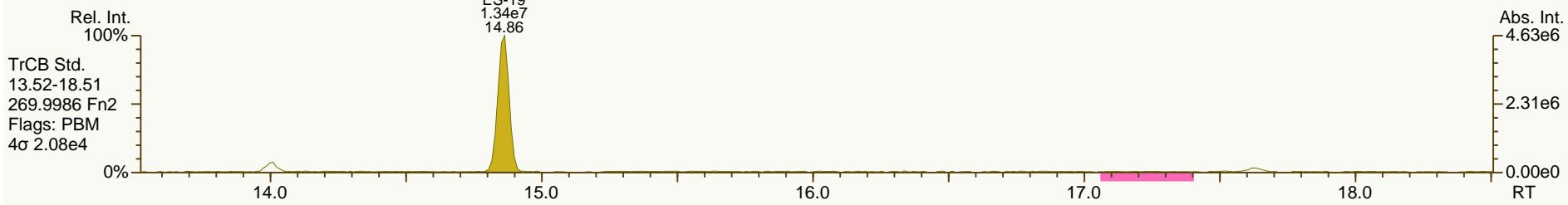
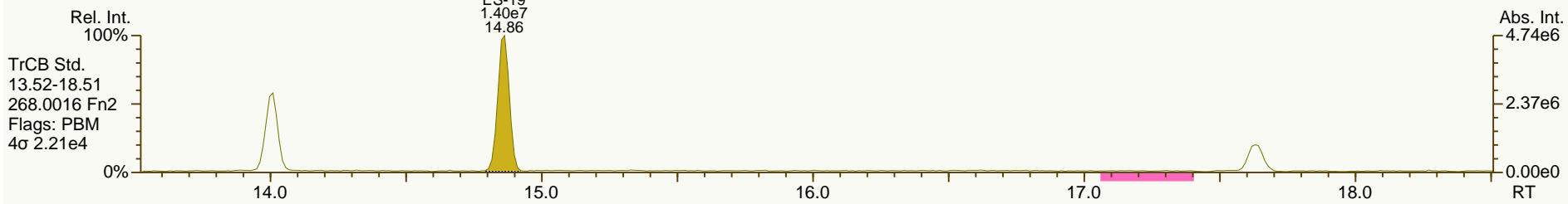
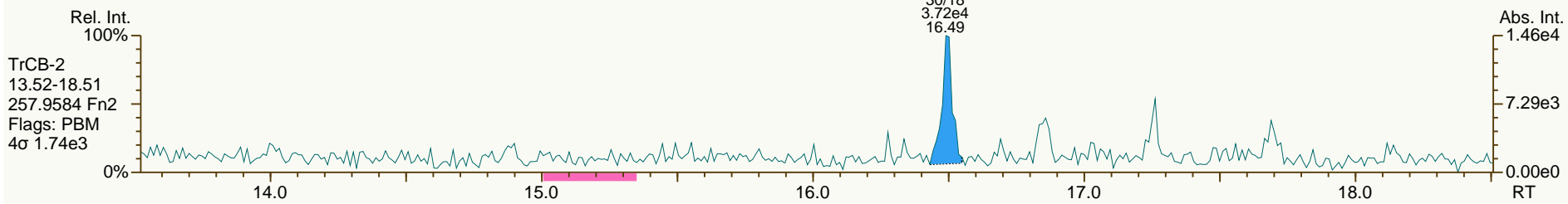
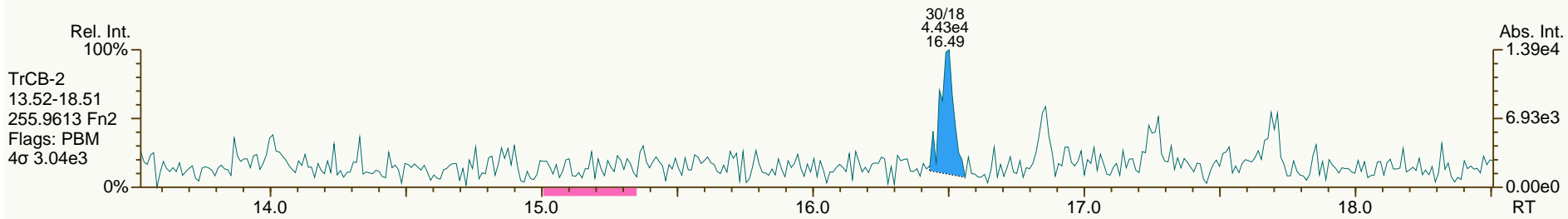
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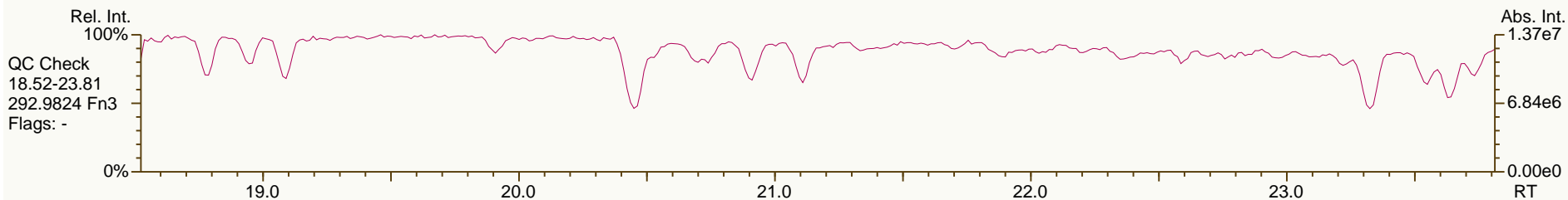
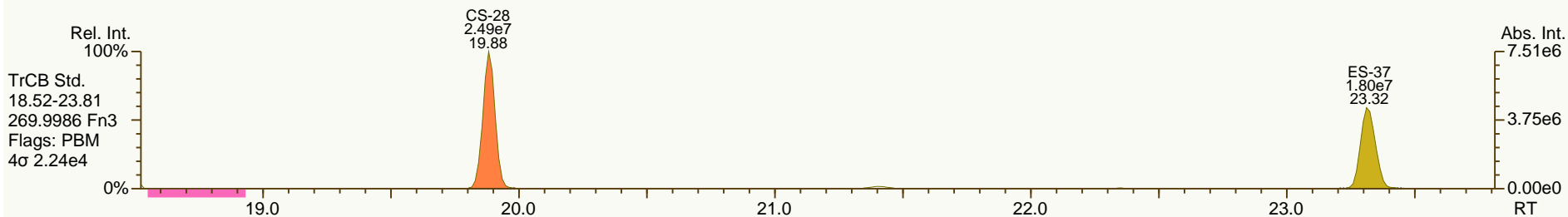
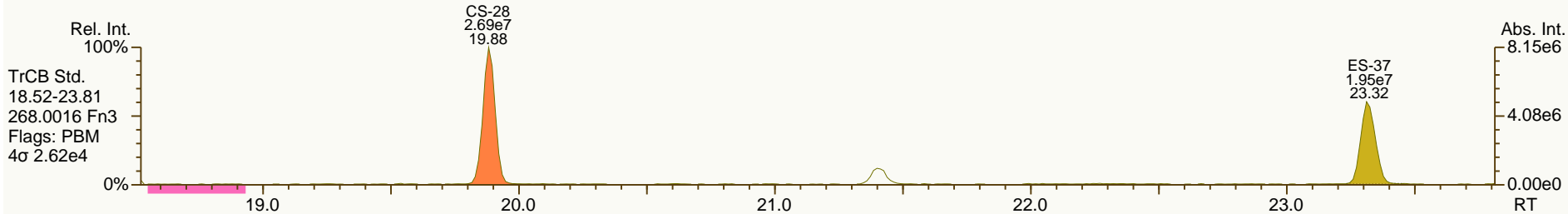
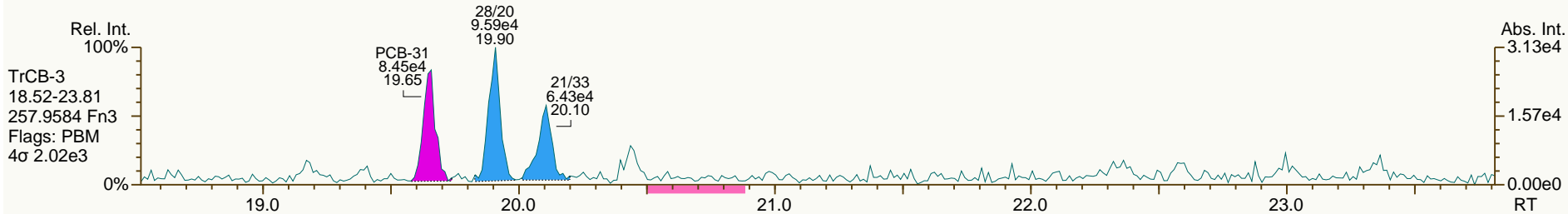
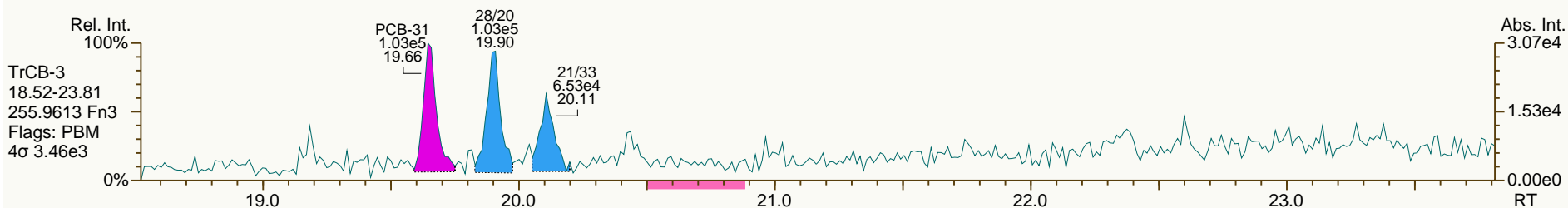
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VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 42

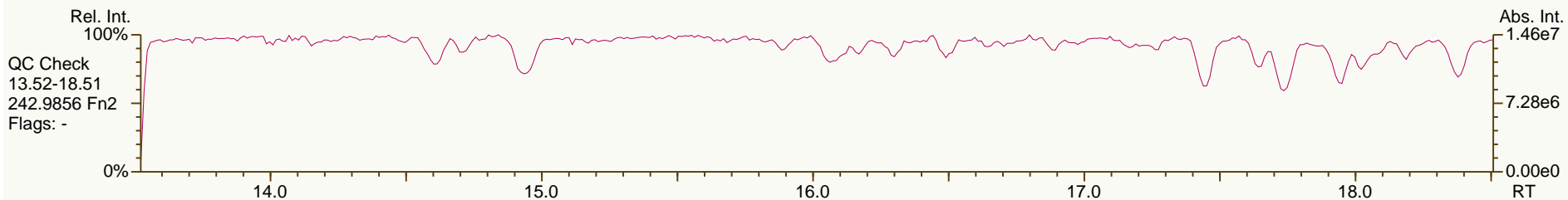
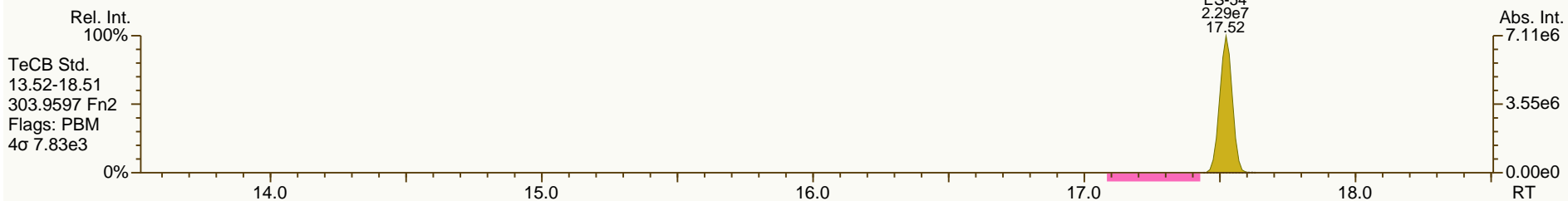
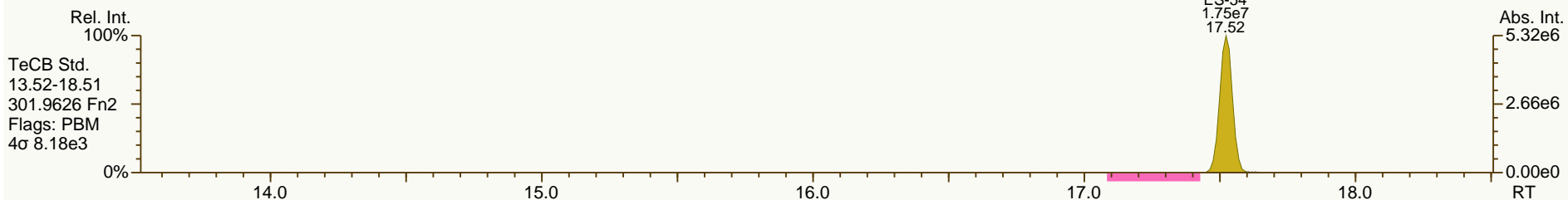
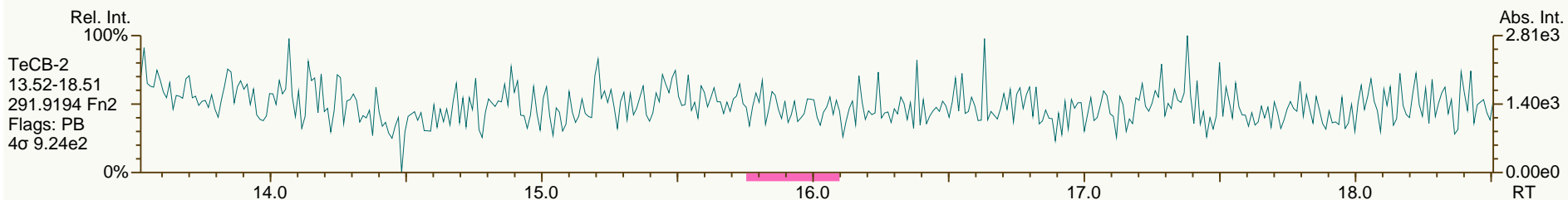
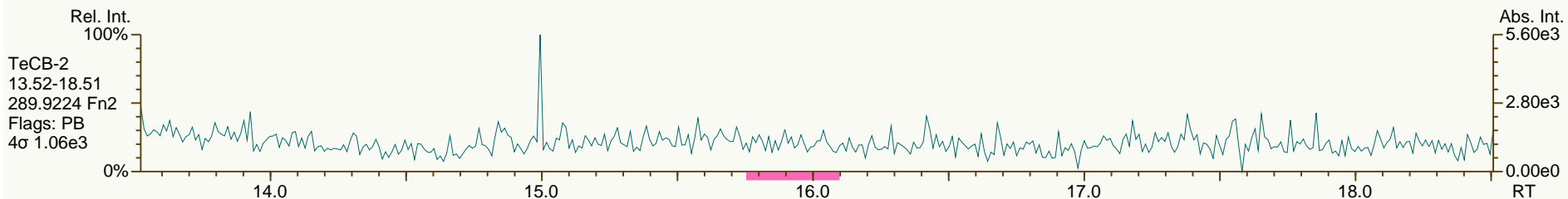
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Sample ID: JW-EA09-SC36-C-130426
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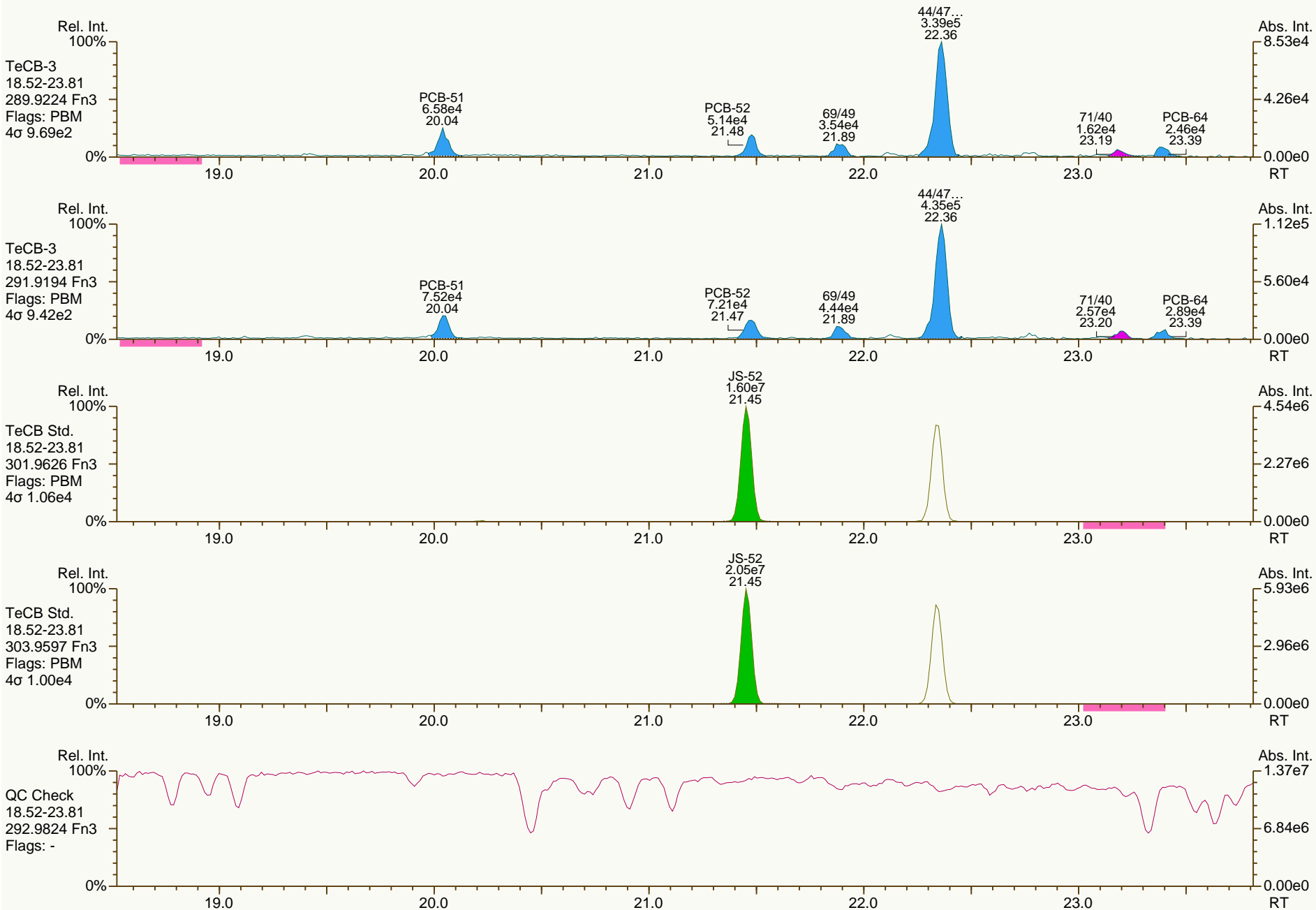
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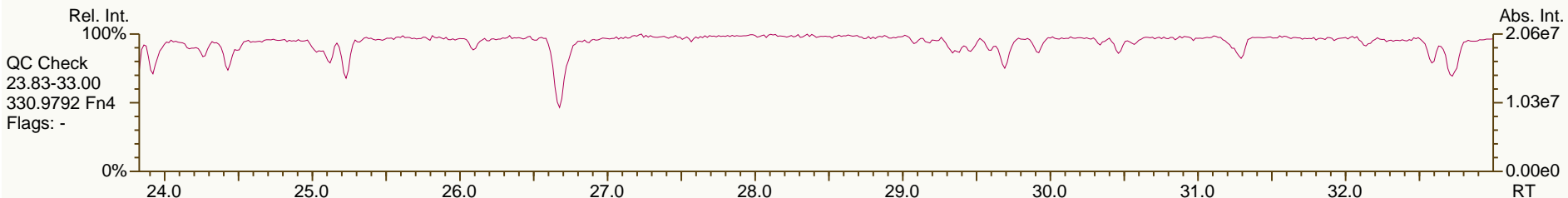
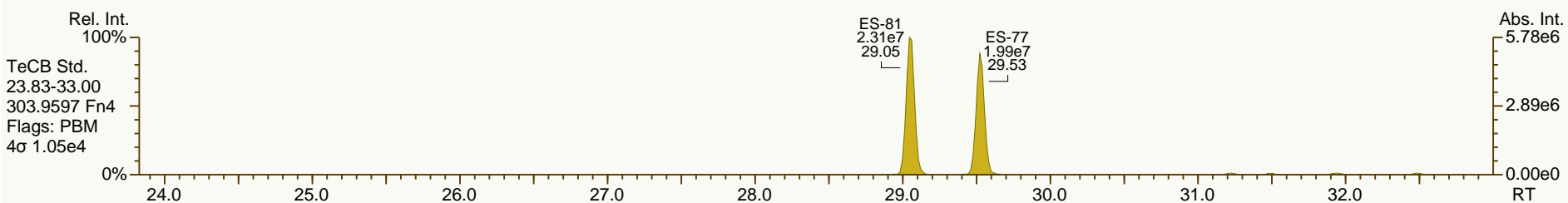
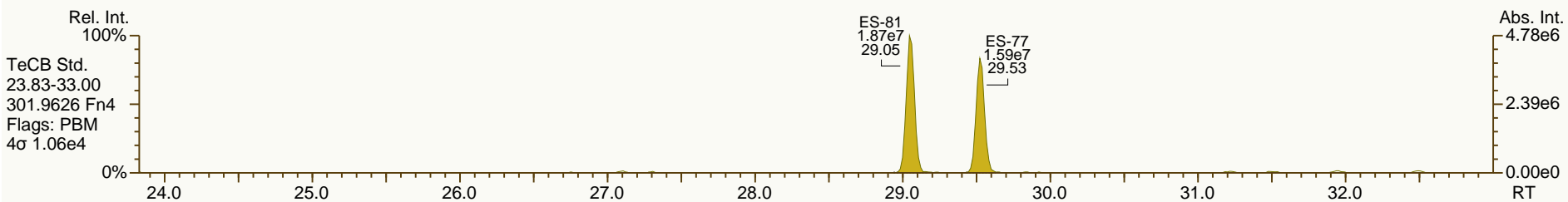
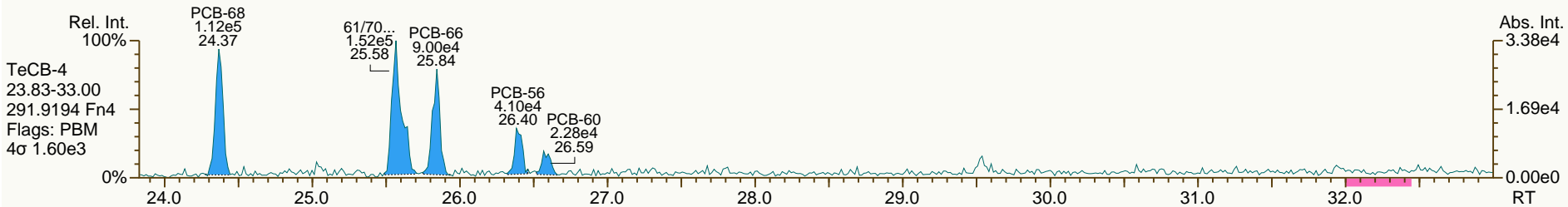
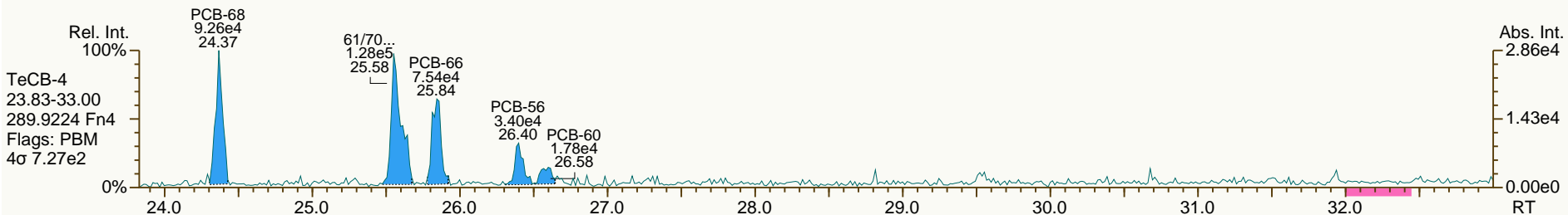
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Sample ID: JW-EA09-SC36-C-130426
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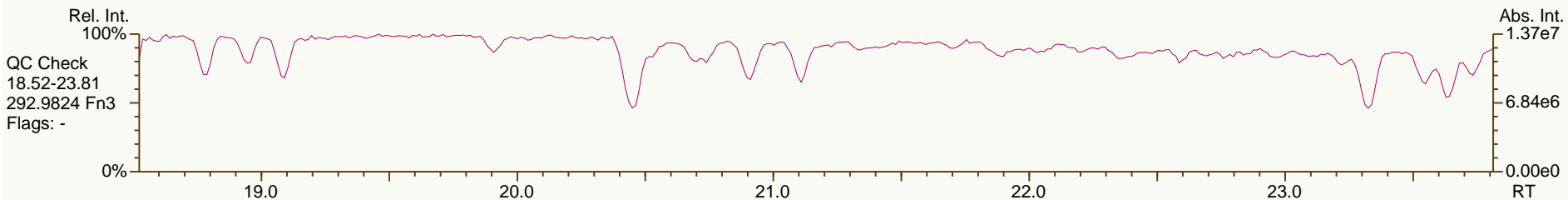
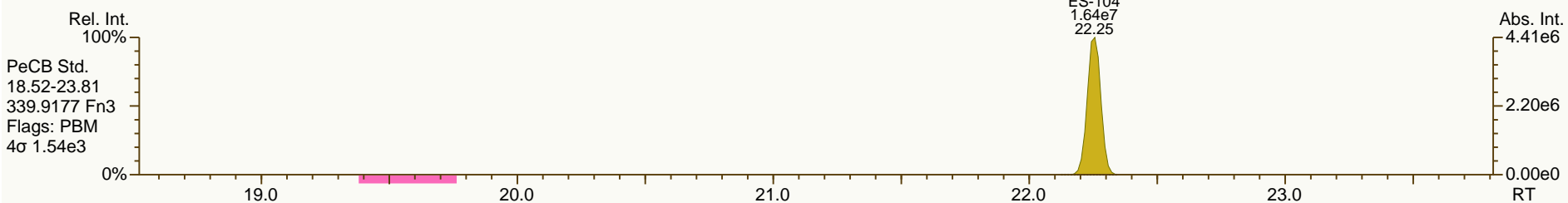
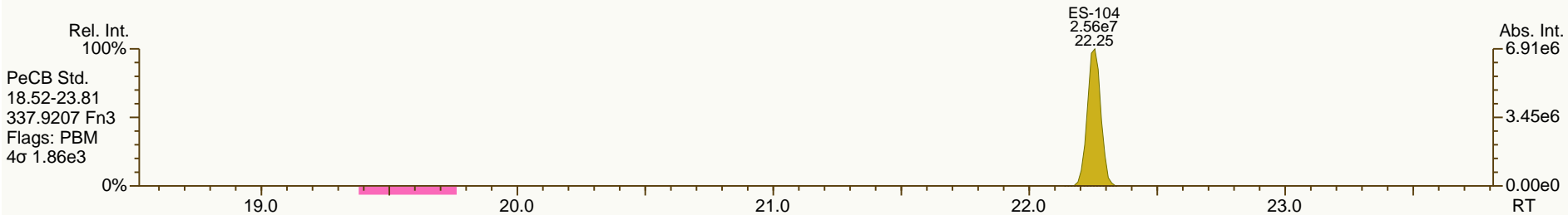
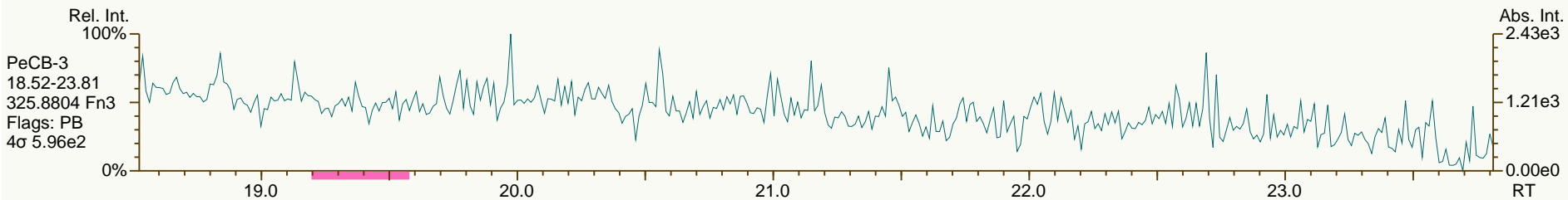
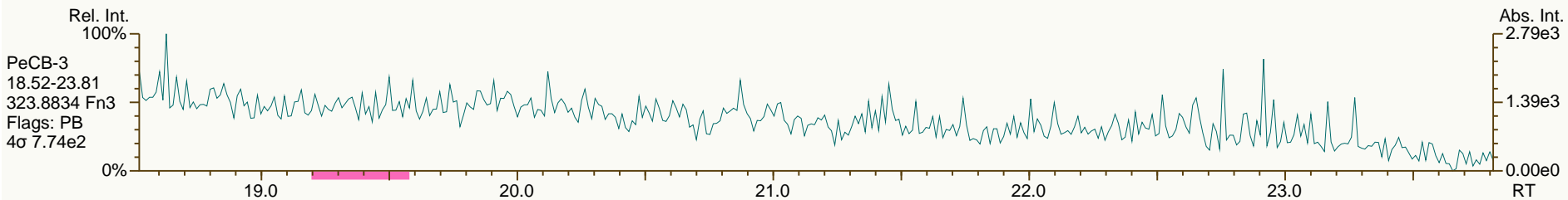
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Sample ID: JW-EA09-SC36-C-130426
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 42

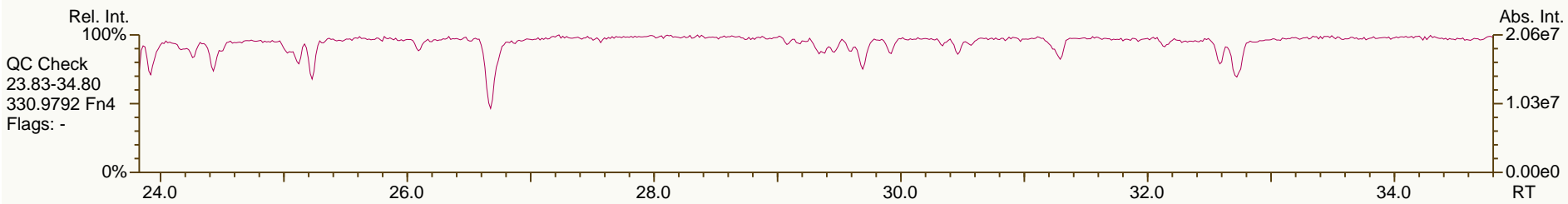
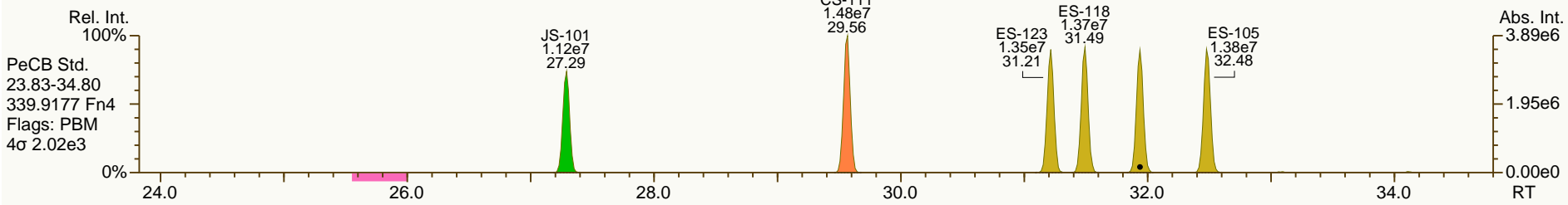
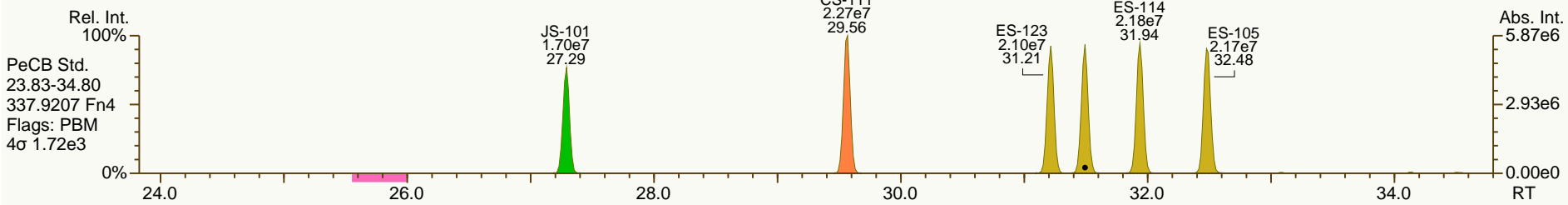
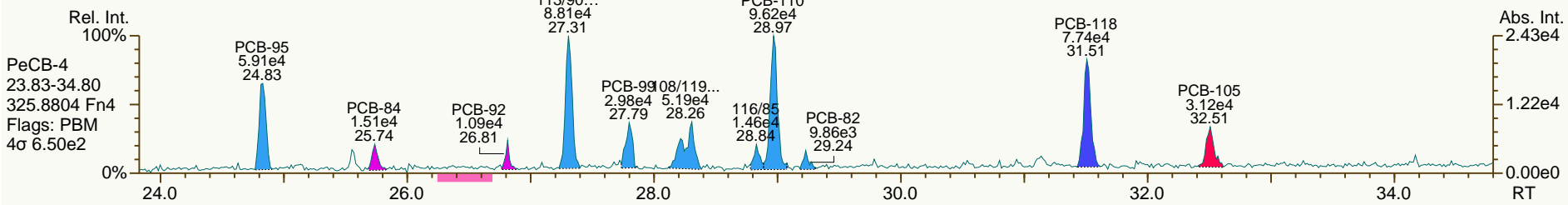
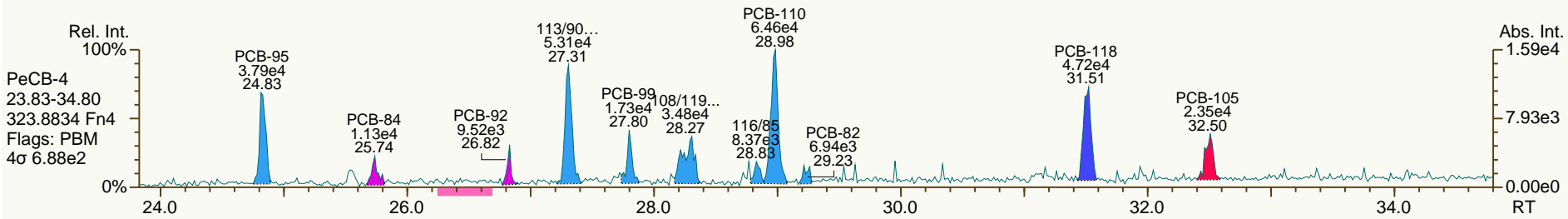
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SGS-AP ID: A5959_11364_PCB_002
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Sample ID: JW-EA09-SC36-C-130426
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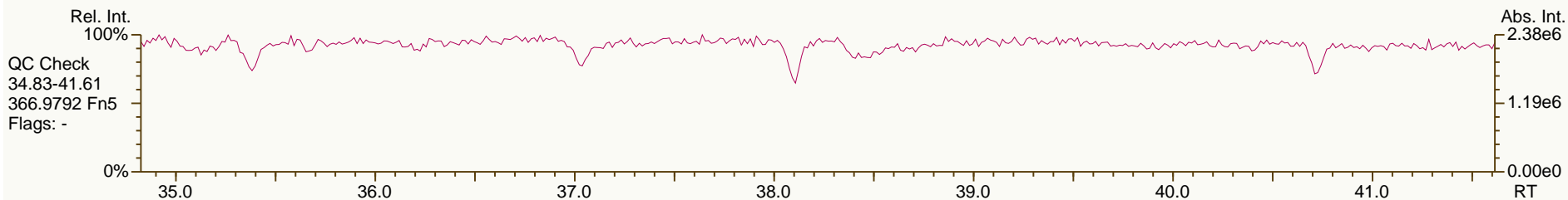
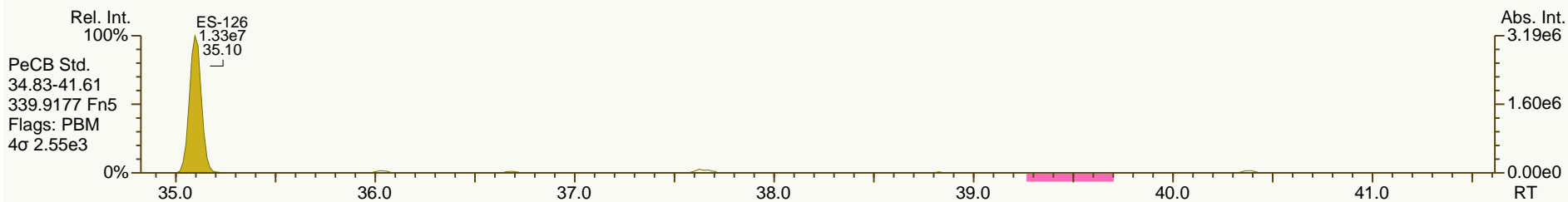
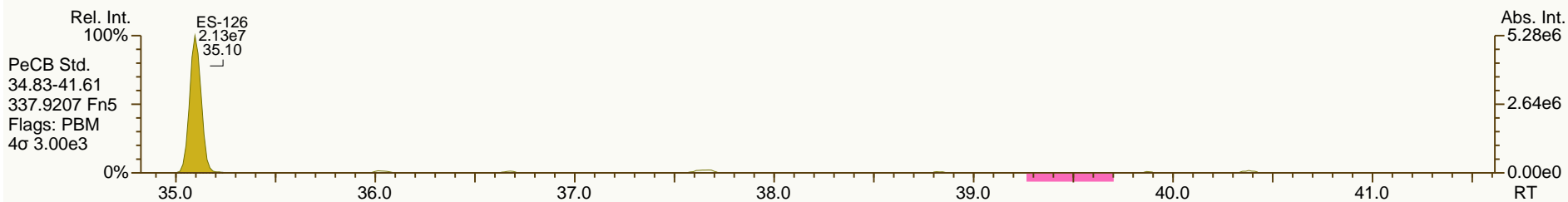
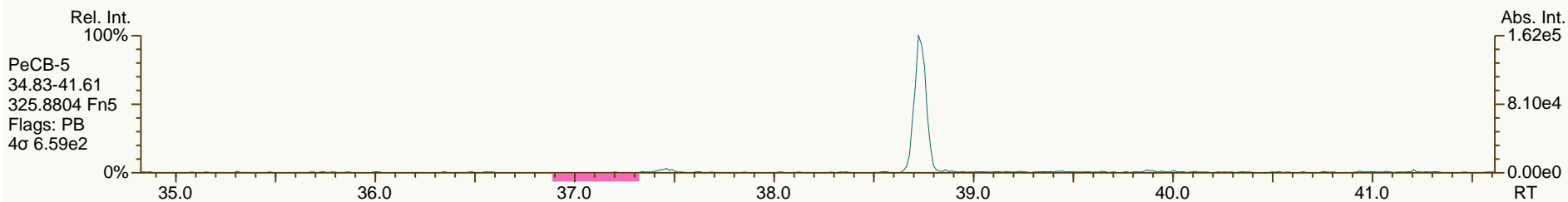
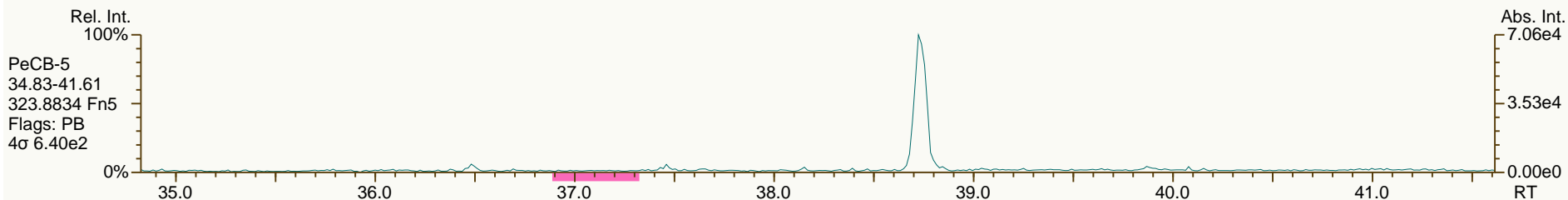
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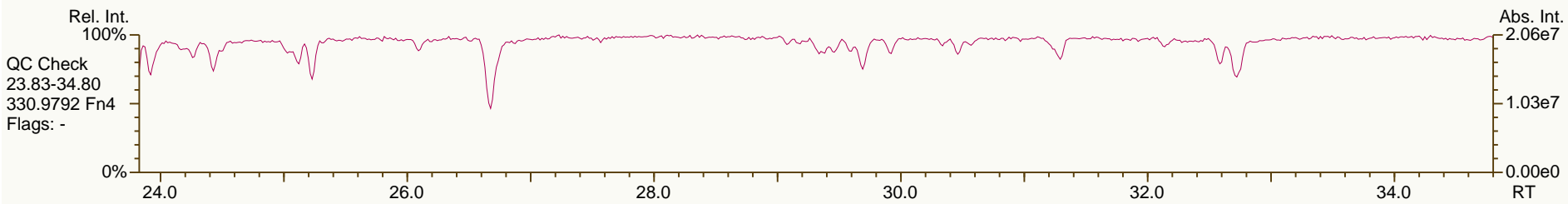
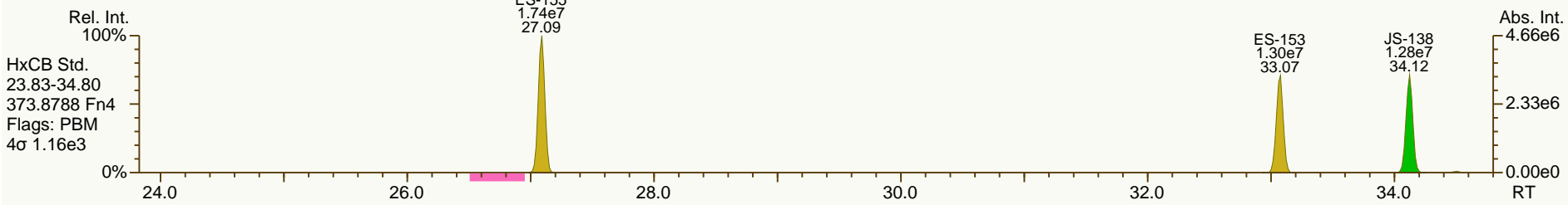
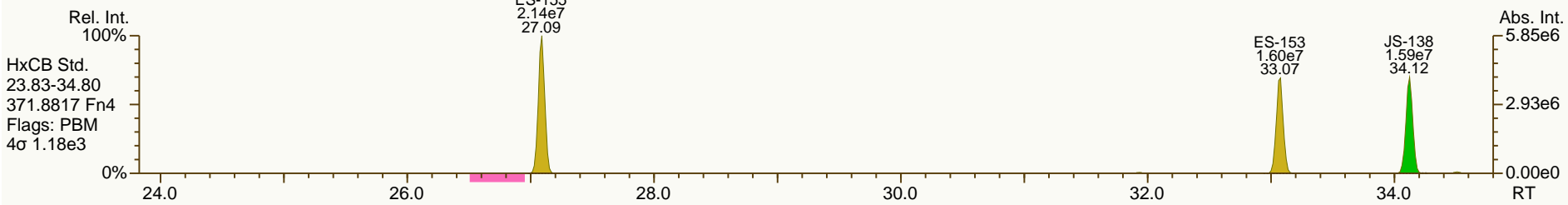
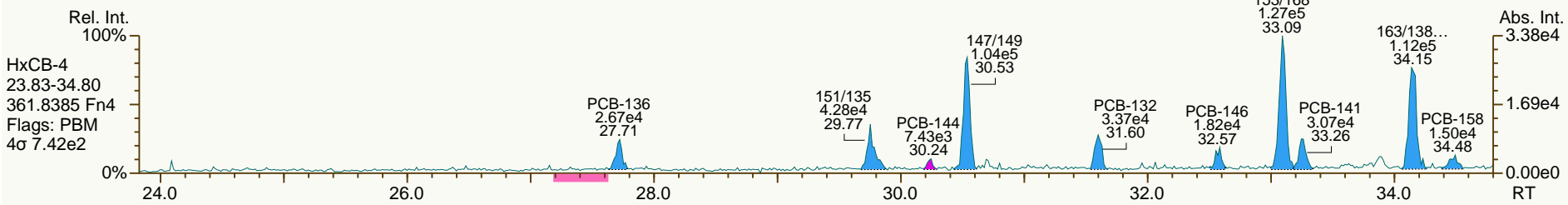
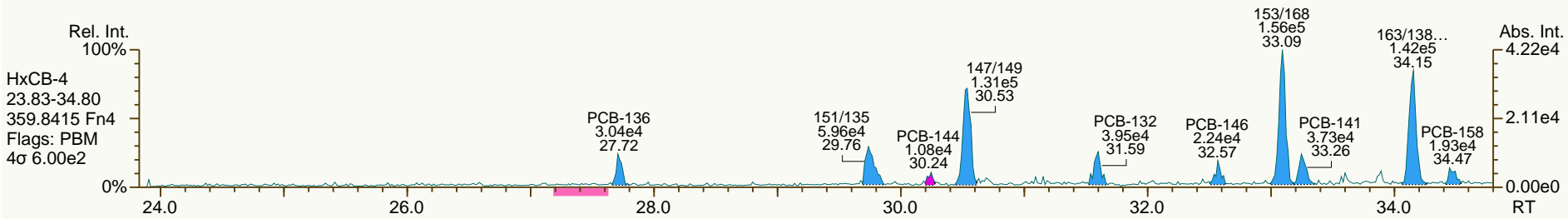
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 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 42

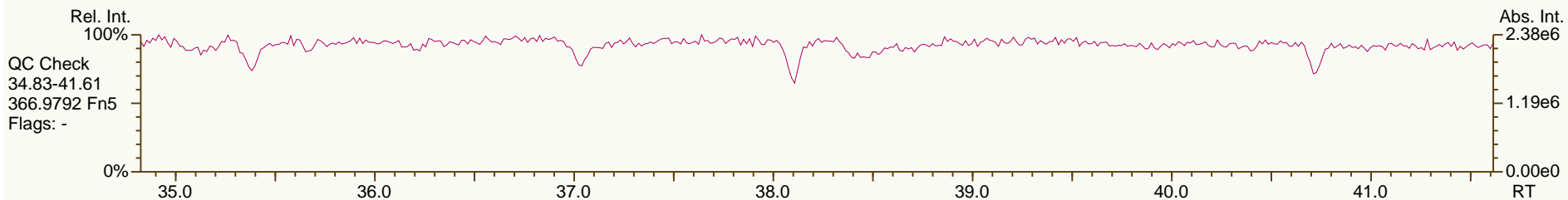
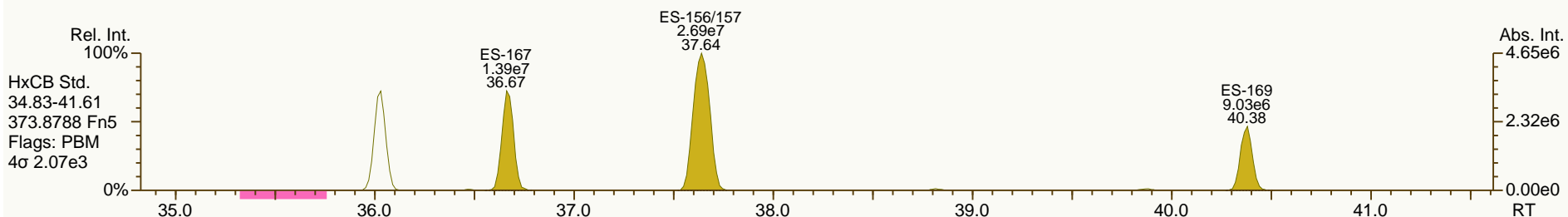
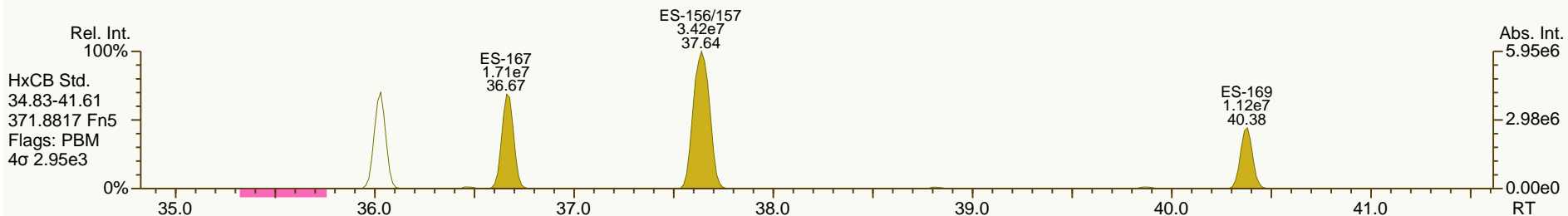
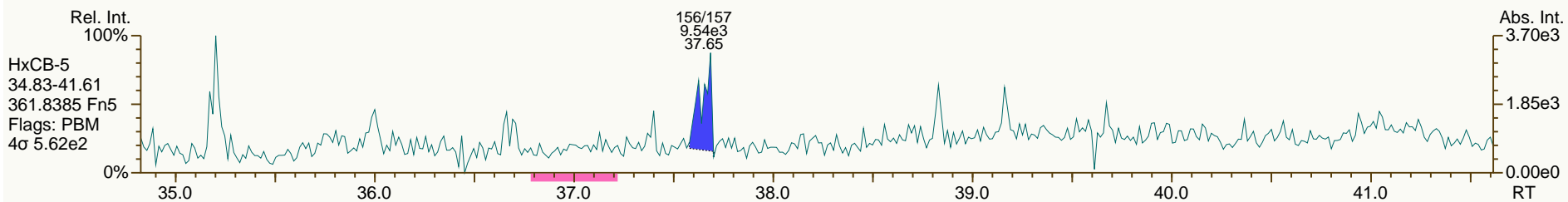
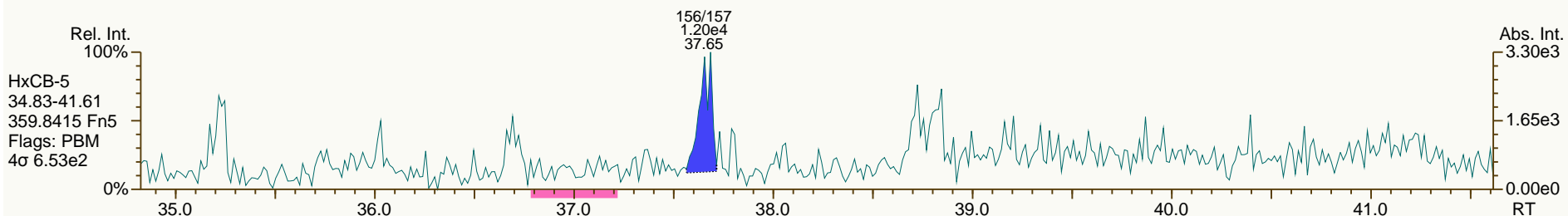
Acq: 03-Oct-2013 05:45:48
 User: CTW Datafile: 131002S21



SGS-AP ID: A5959_11364_PCB_002
 Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-C-130426
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 42

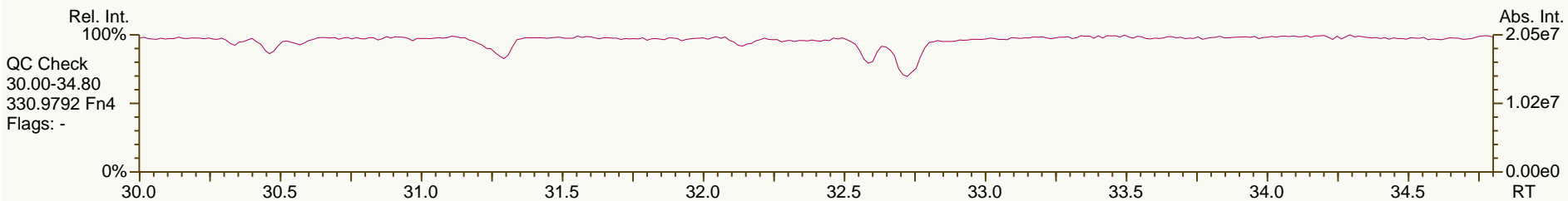
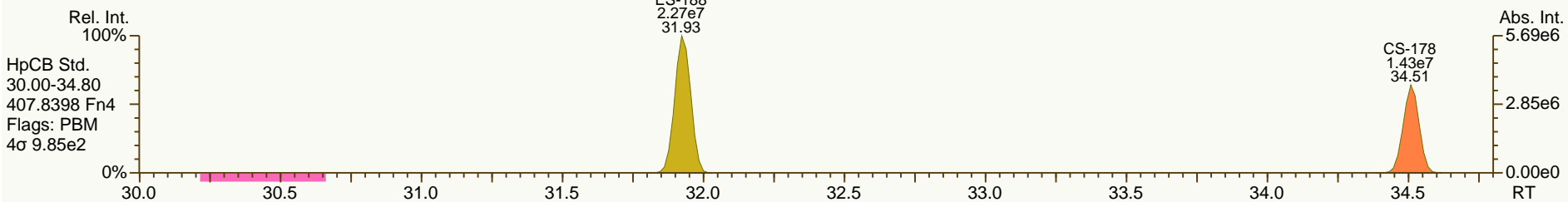
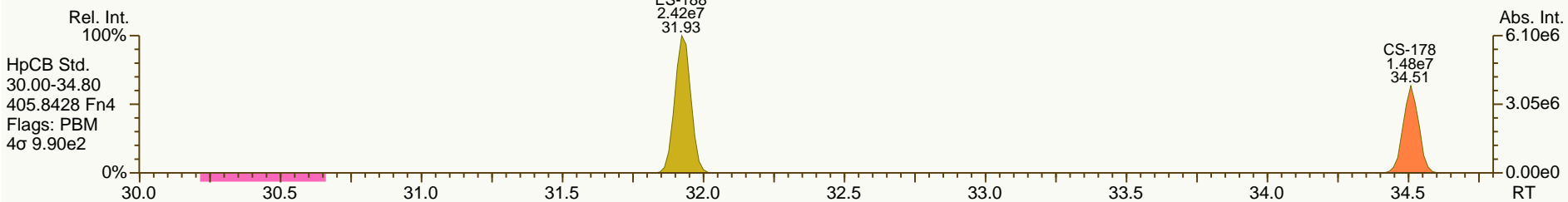
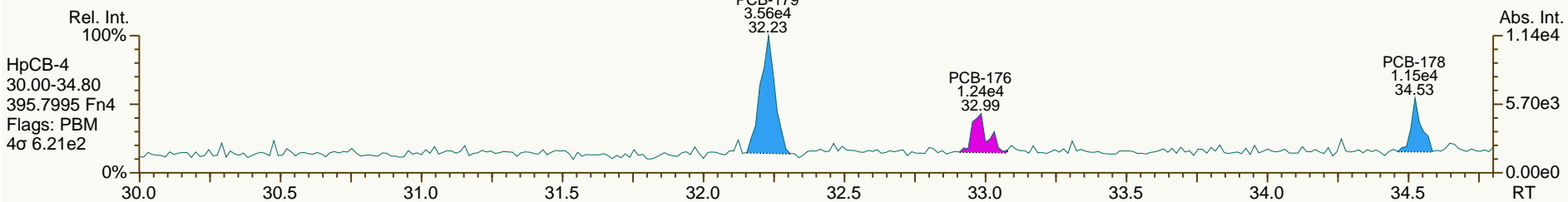
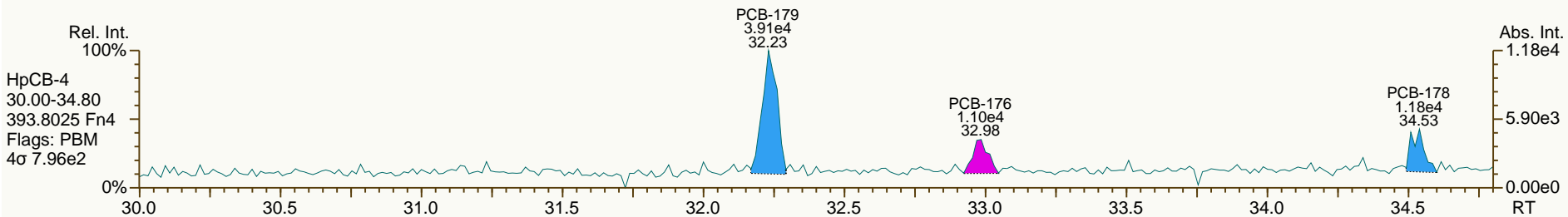
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SGS-AP ID: A5959_11364_PCB_002
 Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-C-130426
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 42

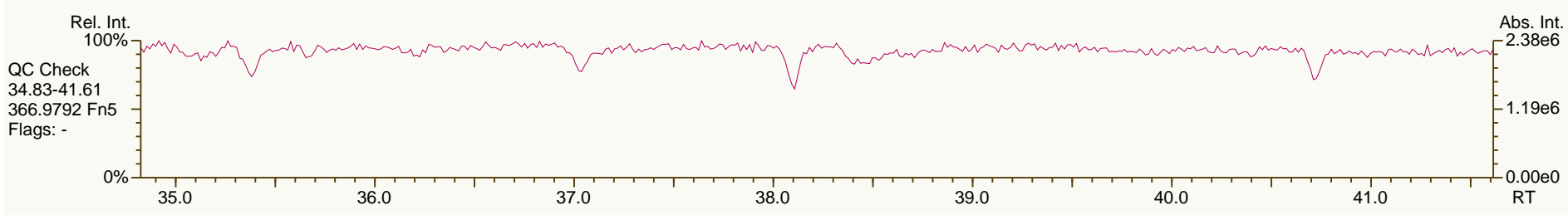
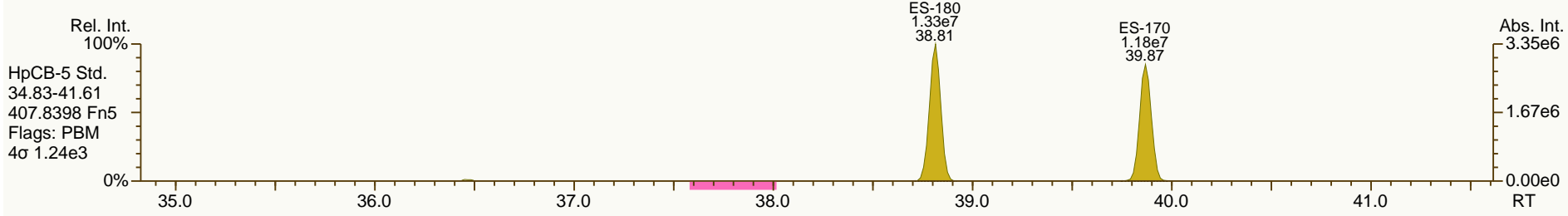
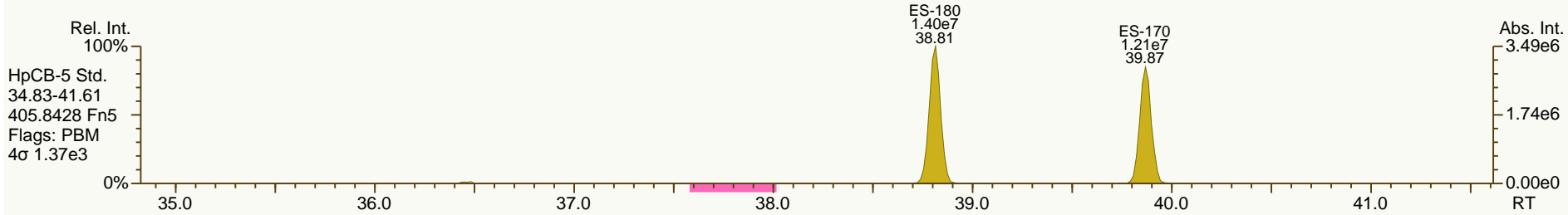
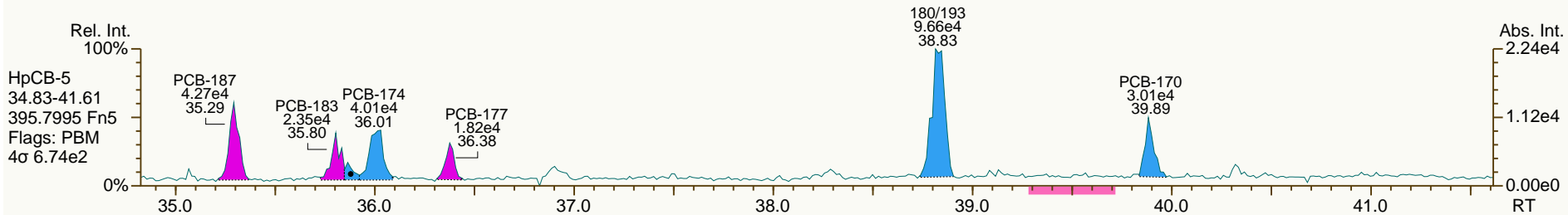
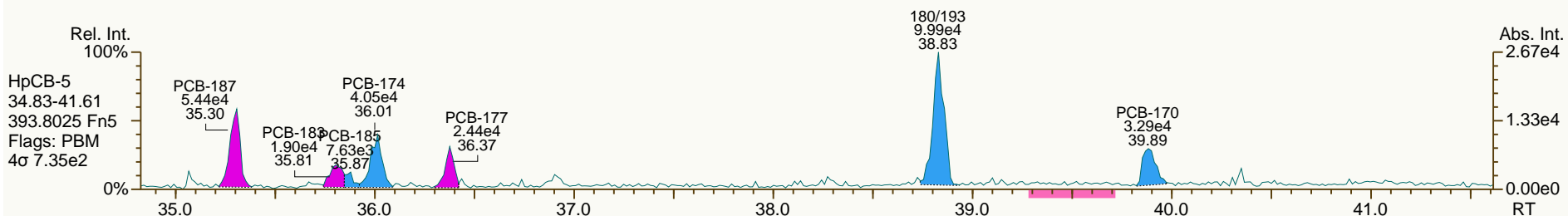
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SGS-AP ID: A5959_11364_PCB_002
 Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-C-130426
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 42

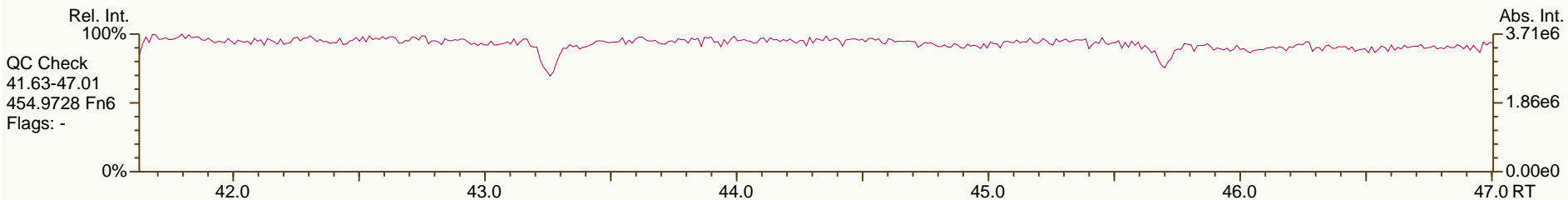
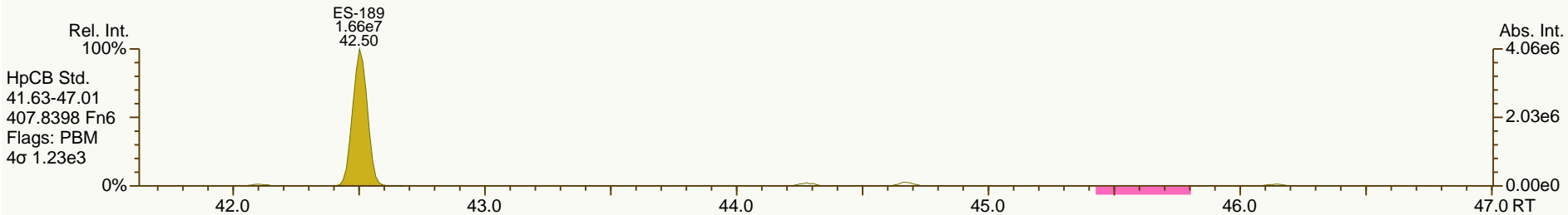
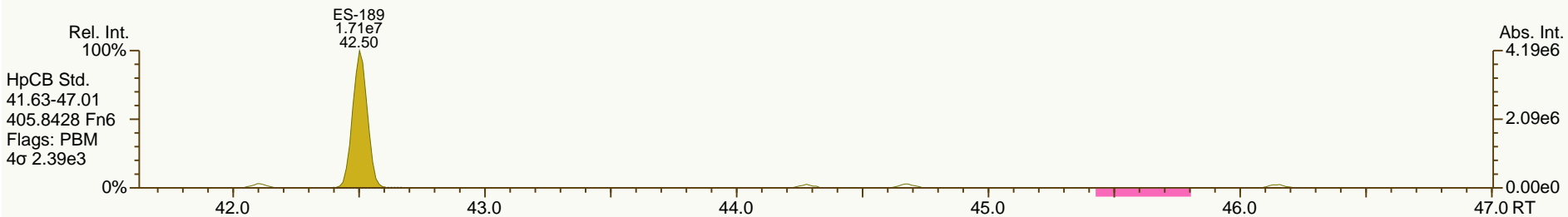
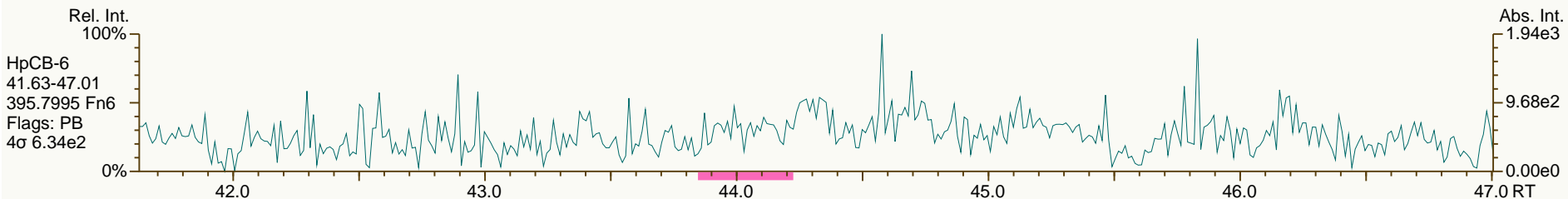
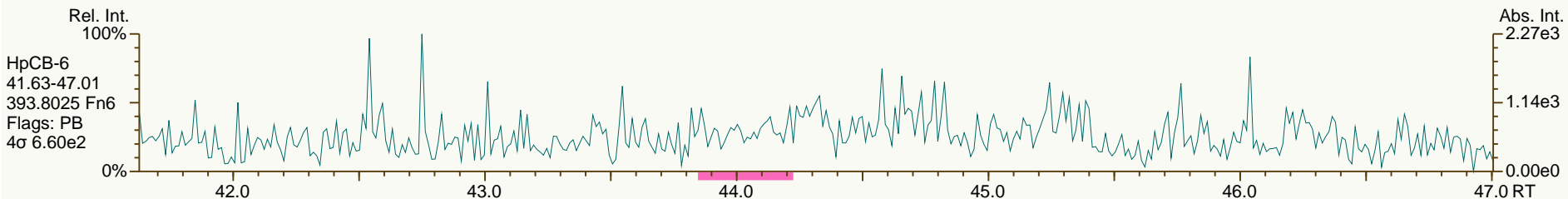
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SGS-AP ID: A5959_11364_PCB_002
 Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-C-130426
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 42

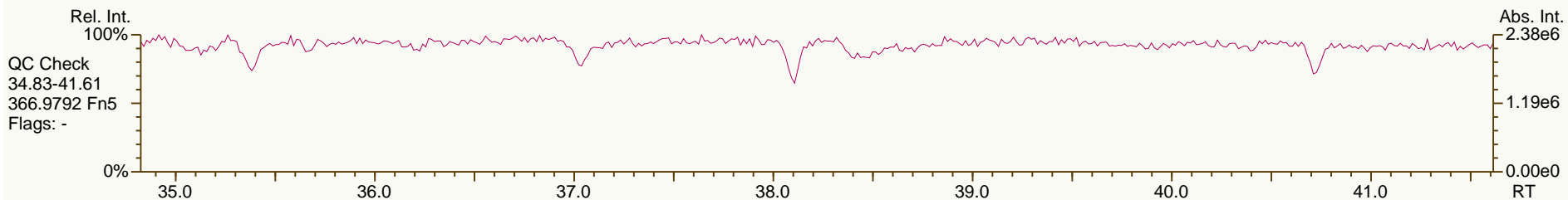
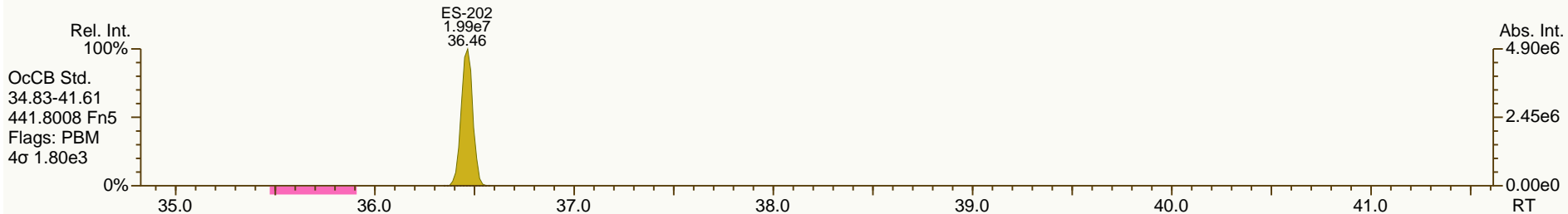
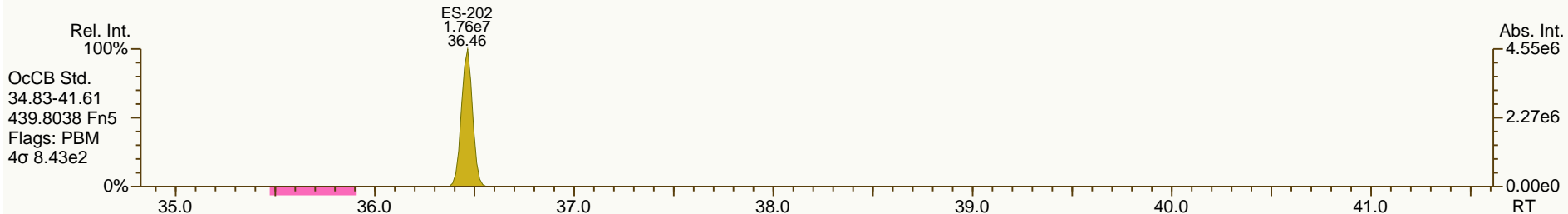
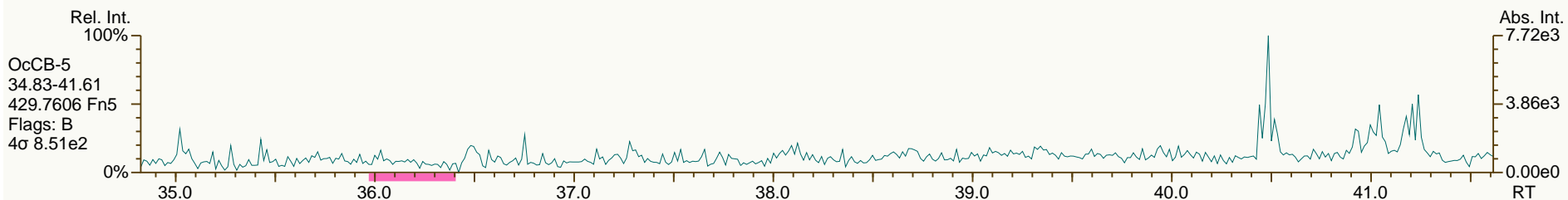
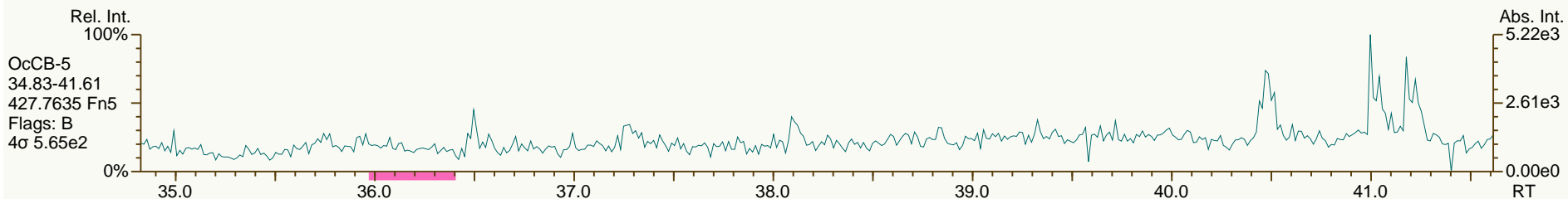
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SGS-AP ID: A5959_11364_PCB_002
 Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-C-130426
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 42

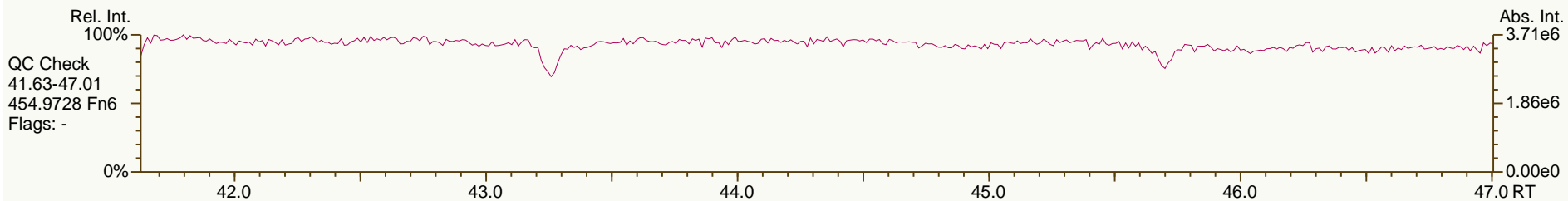
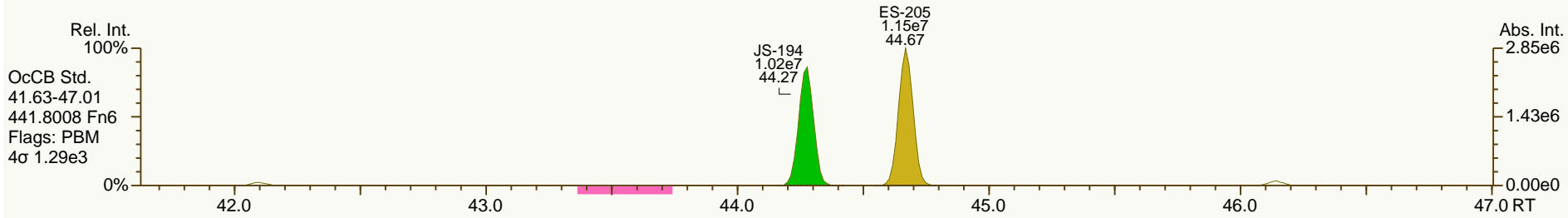
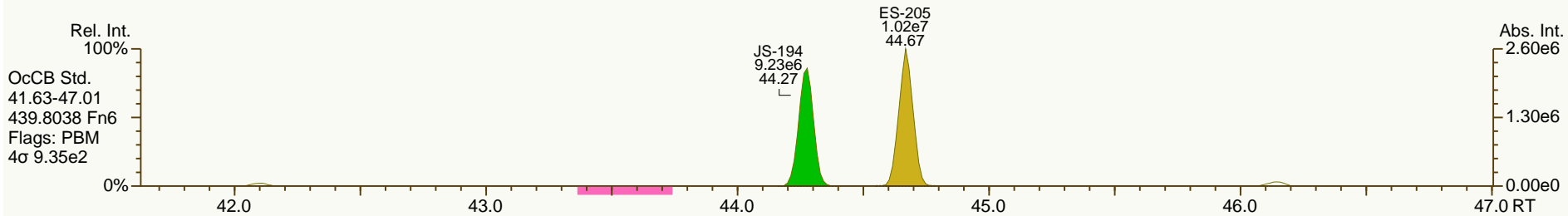
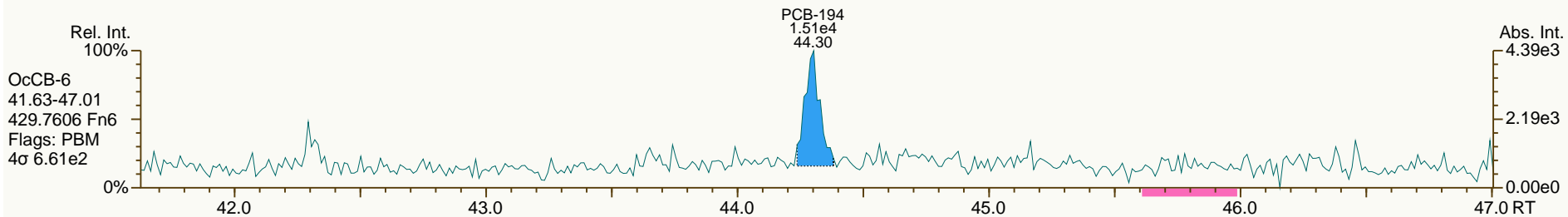
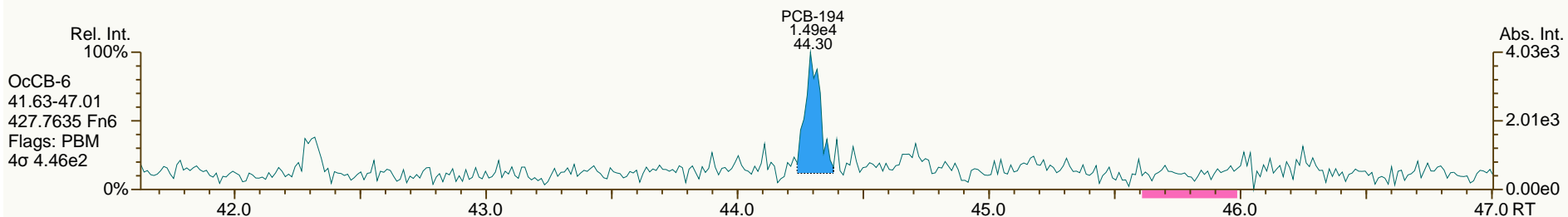
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 User: CTW Datafile: 131002S21



SGS-AP ID: A5959_11364_PCB_002
 Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-C-130426
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 42

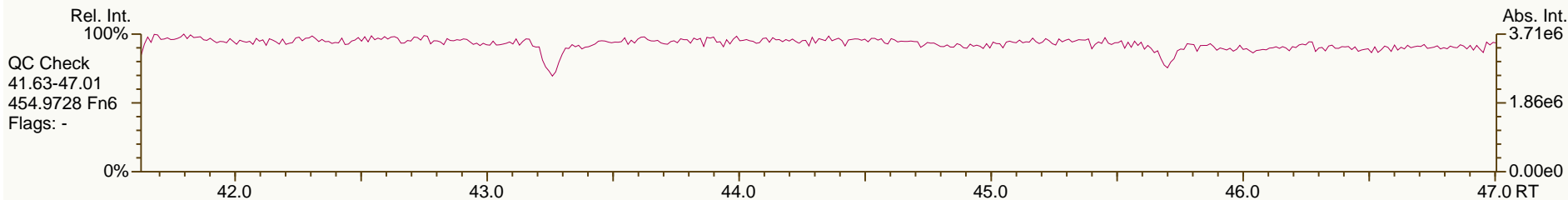
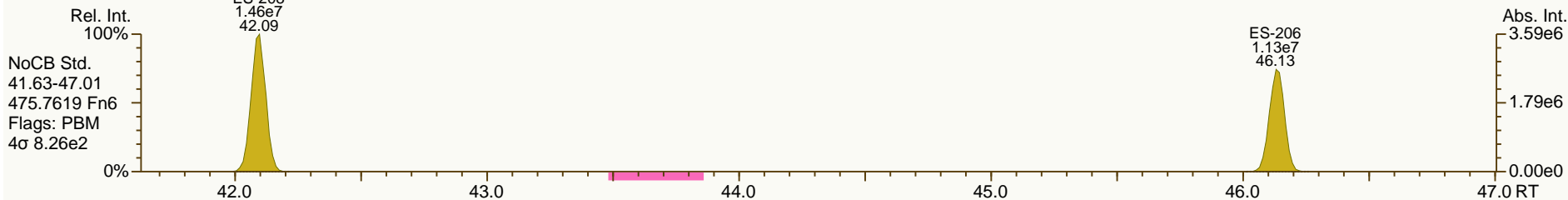
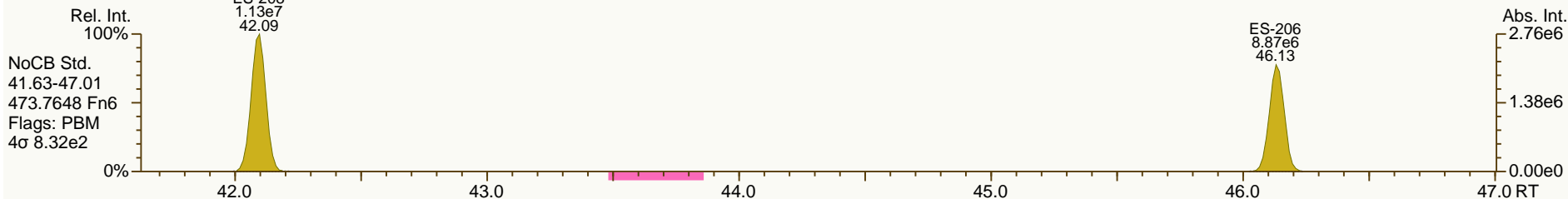
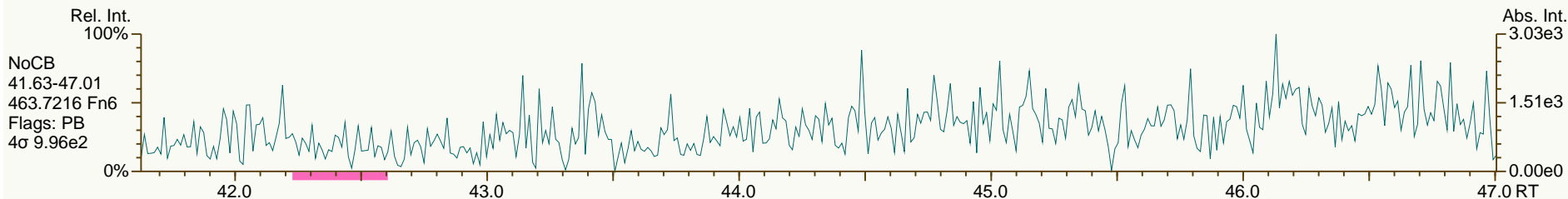
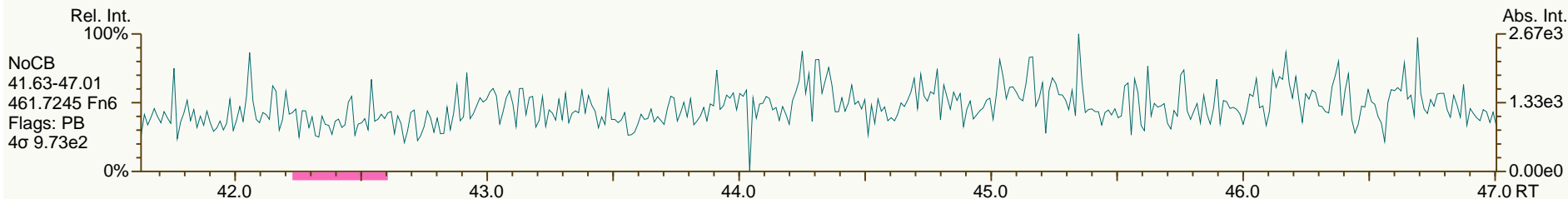
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 User: CTW Datafile: 131002S21



SGS-AP ID: A5959_11364_PCB_002
 Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-C-130426
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 42

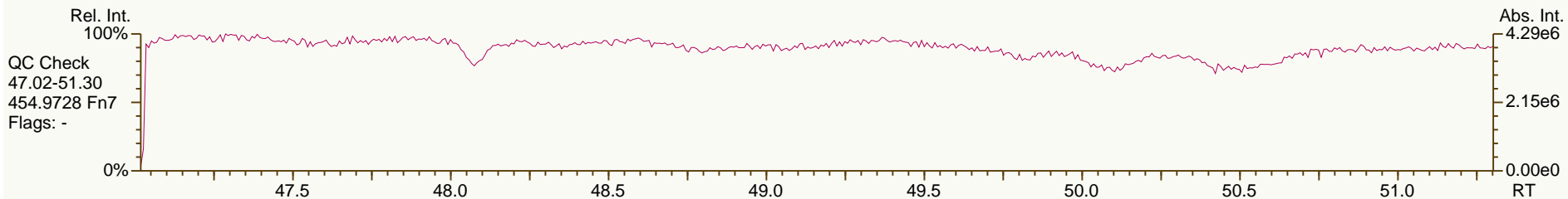
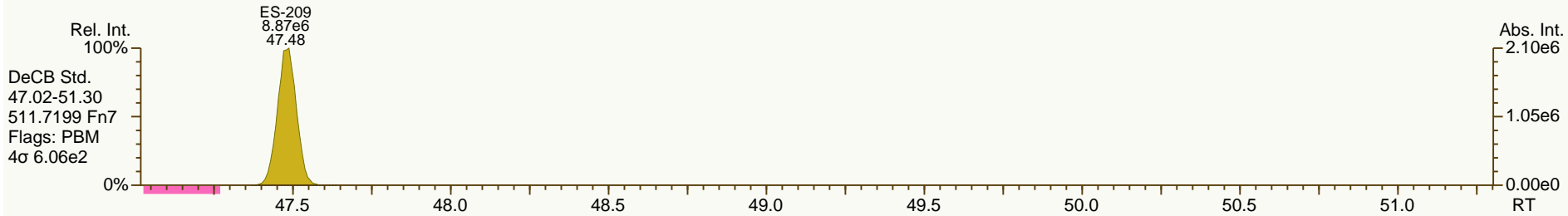
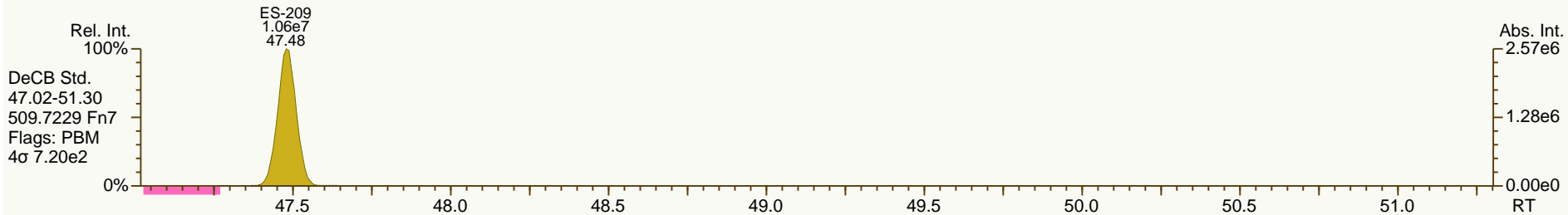
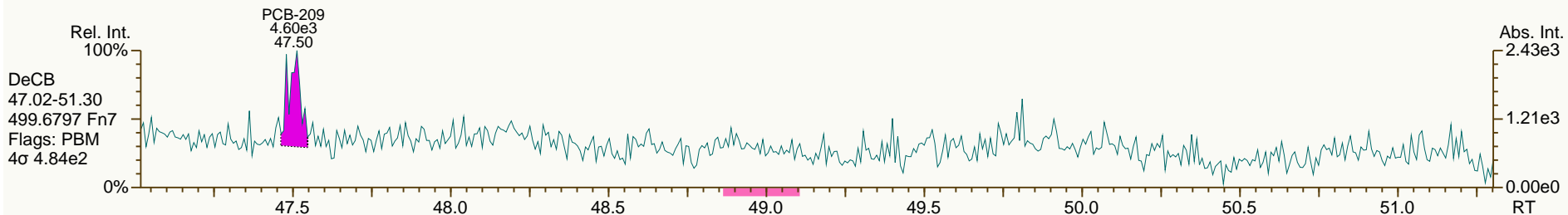
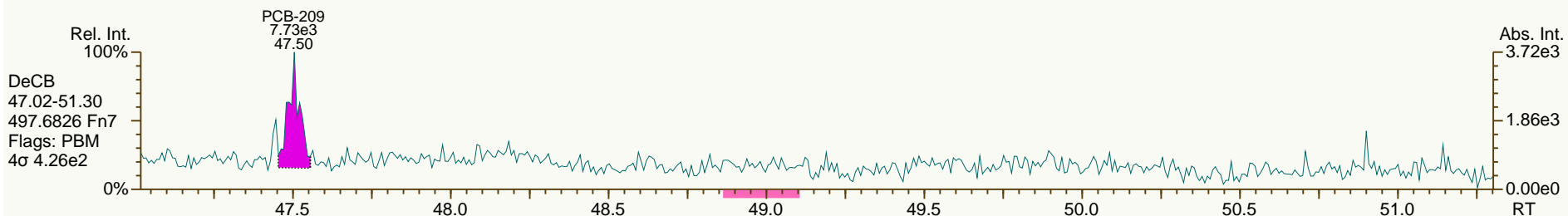
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SGS-AP ID: A5959_11364_PCB_002
 Instr: AutoSpec-Ultima MM4

Sample ID: JW-EA09-SC36-C-130426
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 42

Acq: 03-Oct-2013 05:45:48
 User: CTW Datafile: 131002S21



SGS Analytical Perspectives — Run Log

Project: A5959_11364_PCB

Instrument: MM4 (AutoSpec-Ultima)

MS Experiment: pcb-2011-08

GC Program: pcb90_FI

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
12	131002S12	13	CS3_131002_PCB_SC	1.00	SIL 13-40-1	CTW	129-143	02-Oct-2013	21:21:37
14	131002S14	39	OPR1_11364_PCB	1.00	0_11364_OPR001	CTW	717-475	02-Oct-2013	23:13:41
15	131002S15	12	SBS_131002_PCB_SC	1.00	SIL9-41-1	CTW	840-994	03-Oct-2013	00:09:42
17	131002S17	40	MB1_11364_PCB_SDS ✓	10.00	Method Blank	CTW	558-987	03-Oct-2013	02:01:43
19	131002S19	12	SBS_131002_PCB_SD	1.00	SIL9-41-1	CTW	424-759	03-Oct-2013	03:53:46
20	131002S20	41	A5959_11364_PCB_001 ✓	10.05	JW-EA09-SC36-B-130426	CTW	854-086	03-Oct-2013	04:49:48
21	131002S21	42	A5959_11364_PCB_002	10.00	JW-EA09-SC36-C-130426	CTW	179-096	03-Oct-2013	05:45:48

REVIEWED*By cwood at 5:41 pm, Oct 09, 2013***APPROVED***By Amy Boehm at 2:11 pm, Oct 10, 2013*

PCB QC Summary		SGS Analytical Perspectives			Processed: 9-Oct-2013 17:18		
Lab ID:	CS3_131002_PCB_SC						
Acquired:	02-OCT-2013 21:21		ICAL: MM4_PCB_07122013_11SEP2013				
Datafile:	131002S12						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	29.53	3.47E+07	0.80 Y	1.51	1.51	0.2%	
PCB-81 344'5'-TeCB	29.05	3.32E+07	0.79 Y	1.27	1.29	1.4%	
PCB-105 233'44'-PeCB	32.49	2.18E+07	0.60 Y	1.00	1.03	3.2%	
PCB-114 2344'5'-PeCB	31.95	2.39E+07	0.61 Y	1.06	1.09	3.1%	
PCB-118 23'44'5'-PeCB	31.50	2.27E+07	0.61 Y	1.01	1.06	5.0%	
PCB-123 23'44'5'-PeCB	31.22	2.37E+07	0.60 Y	1.06	1.14	7.5%	
PCB-126 33'44'5'-PeCB	35.11	2.89E+07	0.64 Y	1.26	1.31	3.9%	
PCB-156/157 ...-HxCB	37.65	4.22E+07	1.26 Y	1.06	1.11	4.0%	
PCB-167 23'44'55'-HxCB	36.68	2.23E+07	1.23 Y	1.12	1.14	1.8%	
PCB-169 33'44'55'-HxCB	40.39	2.07E+07	1.27 Y	1.09	1.11	2.6%	
PCB-189 233'44'55'-HpCB	42.52	2.52E+07	1.06 Y	1.15	1.15	0.0%	
PCB-209 DeCB	47.50	1.48E+07	1.19 Y	1.03	1.05	1.7%	
ES PCB-1	9.95	7.91E+07	3.21 Y	1.04	1.10	5.1%	
ES PCB-3	11.90	7.37E+07	3.20 Y	0.99	1.02	3.1%	
ES PCB-4	12.11	5.24E+07	1.54 Y	0.71	0.73	2.1%	
ES PCB-15	17.26	7.95E+07	1.62 Y	1.09	1.10	1.0%	
ES PCB-19	14.84	4.22E+07	1.03 Y	0.59	0.58	-1.0%	
ES PCB-37	23.29	5.80E+07	1.06 Y	1.32	1.36	3.3%	
ES PCB-54	17.50	5.94E+07	0.80 Y	1.35	1.40	3.4%	
ES PCB-77	29.51	4.58E+07	0.81 Y	1.07	1.08	0.9%	
ES PCB-81	29.04	5.15E+07	0.80 Y	1.19	1.21	1.7%	
ES PCB-104	22.23	5.49E+07	1.58 Y	1.62	1.68	3.8%	
ES PCB-105	32.47	4.24E+07	1.54 Y	1.30	1.30	-0.2%	
ES PCB-114	31.92	4.36E+07	1.55 Y	1.32	1.34	1.4%	
ES PCB-118	31.48	4.28E+07	1.55 Y	1.30	1.31	0.7%	
ES PCB-123	31.20	4.15E+07	1.55 Y	1.26	1.27	0.8%	
ES PCB-126	35.09	4.42E+07	1.64 Y	1.41	1.36	-3.7%	
ES PCB-153	33.06	3.69E+07	1.25 Y	1.15	1.13	-1.9%	
ES PCB-155	27.07	4.93E+07	1.28 Y	1.53	1.51	-1.4%	
ES PCB-156/157	37.63	7.62E+07	1.26 Y	1.19	1.17	-1.5%	
ES PCB-167	36.66	3.91E+07	1.26 Y	1.22	1.20	-2.1%	
ES PCB-169	40.37	3.72E+07	1.28 Y	1.18	1.14	-3.6%	
ES PCB-170	39.86	2.97E+07	1.05 Y	1.22	1.24	1.3%	
ES PCB-180	38.80	3.44E+07	1.06 Y	1.41	1.43	1.7%	
ES PCB-188	31.91	5.70E+07	1.08 Y	1.71	1.75	2.5%	
ES PCB-189	42.50	4.38E+07	1.05 Y	1.84	1.82	-0.9%	
ES PCB-202	36.45	4.61E+07	0.89 Y	1.42	1.41	-0.2%	
ES PCB-205	44.66	2.94E+07	0.88 Y	1.25	1.22	-2.4%	
ES PCB-206	46.13	2.81E+07	0.77 Y	1.24	1.17	-5.6%	
ES PCB-208	42.09	3.31E+07	0.79 Y	1.42	1.38	-3.0%	
ES PCB-209	47.48	2.81E+07	1.18 Y	1.23	1.17	-5.3%	

PCB QC Summary		SGS Analytical Perspectives			Processed: 9-Oct-2013 17:18		
Lab ID:	CS3_131002_PCB_SC	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	02-OCT-2013 21:21						
Datafile:	131002S12						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	19.86	6.11E+07	1.08 Y	1.06	1.05	-0.9%	
SS PCB-111	29.55	4.23E+07	1.59 Y	1.06	1.02	-3.8%	
SS PCB-178	34.50	3.27E+07	1.07 Y	0.58	0.57	-1.5%	
CS PCB-28	19.86	6.11E+07	1.08 Y	1.40	1.44	2.4%	
CS PCB-111	29.55	4.23E+07	1.59 Y	1.34	1.30	-3.0%	
CS PCB-178	34.50	3.27E+07	1.07 Y	0.99	1.00	1.0%	
JS PCB-9	13.86	7.23E+07	1.59 Y		-	-	
JS PCB-52	21.43	4.26E+07	0.77 Y		-	-	
JS PCB-101	27.27	3.26E+07	1.56 Y		-	-	
JS PCB-138	34.11	3.26E+07	1.27 Y		-	-	
JS PCB-194	44.27	2.40E+07	0.91 Y		-	-	
PCB-1 2-MoCB	9.97	4.47E+07	3.15 Y	1.20	1.13	-5.6%	
PCB-3 4-MoCB	11.91	4.43E+07	3.15 Y	1.24	1.20	-3.0%	
PCB-4 22'-DiCB	12.12	2.47E+07	1.55 Y	0.97	0.94	-2.7%	
PCB-15 44'-DiCB	17.27	4.72E+07	1.56 Y	1.23	1.19	-3.3%	
PCB-19 22'6'-TrCB	14.85	2.08E+07	1.03 Y	0.97	0.98	1.6%	
PCB-37 344'-TrCB	23.31	3.70E+07	1.08 Y	1.28	1.28	-0.5%	
PCB-54 22'66'-TeCB	17.52	2.97E+07	0.79 Y	1.00	1.00	-0.2%	
PCB-104 22'466'-PeCB	22.25	2.80E+07	0.63 Y	1.06	1.02	-3.4%	
PCB-155 22'44'66'-HxCB	27.09	2.75E+07	1.25 Y	1.12	1.12	-0.6%	
PCB-188 22'34'566'-HpCB	31.93	2.76E+07	1.02 Y	0.97	0.97	0.0%	
PCB-202 22'33'55'66'-OcCB	36.47	1.94E+07	0.88 Y	0.83	0.84	1.2%	
PCB-205 233'44'55'6'-OcCB	44.68	1.65E+07	0.91 Y	1.08	1.12	3.6%	
PCB-208 22'33'455'66'-NoCB	42.11	1.65E+07	0.77 Y	0.99	1.00	0.4%	
PCB-206 22'33'44'55'6'-NoCB	46.15	1.19E+07	0.76 Y	0.83	0.84	1.8%	

PCB QC Summary - Ax2 Detail				Processed: 9-Oct-2013 17:18			
Lab ID:	CS3_131002_PCB_SC			ICAL: MM4_PCB_07122013_11SEP2013			
Acquired:	02-OCT-2013 21:21						
Datafile:	131002S12						
Name	RT	Response	RA		RRF		
PCB-1 2-MoCB	9.97	4.47E+07	3.15 Y	1.20	-	-	
PCB-2 3-MoCB	11.75	4.42E+07	3.21 Y	1.25	1.20	-3.9%	
PCB-3 4-MoCB	11.91	4.43E+07	3.15 Y	1.24	-	-	
PCB-4 22'-DiCB	12.12	2.47E+07	1.55 Y	0.97	-	-	
PCB-10 26-DiCB	12.28	3.79E+07	1.53 Y	1.51	1.45	-4.1%	
PCB-9 25-DiCB	13.87	4.05E+07	1.61 Y	1.06	1.02	-3.8%	
PCB-7 24-DiCB	14.01	4.77E+07	1.57 Y	1.23	1.20	-2.6%	
PCB-6 23'-DiCB	14.22	4.43E+07	1.59 Y	1.14	1.11	-2.1%	
PCB-5 23-DiCB	14.49	4.36E+07	1.61 Y	1.15	1.10	-4.4%	
PCB-8 24'-DiCB	14.60	4.52E+07	1.58 Y	1.18	1.14	-3.2%	
PCB-14 35-DiCB	16.01	5.21E+07	1.61 Y	1.31	1.31	-0.2%	
PCB-11 33'-DiCB	16.74	4.49E+07	1.58 Y	1.17	1.13	-3.5%	
PCB-13/12 34'/34-DiCB	17.01	9.12E+07	1.59 Y	1.17	1.15	-1.5%	
PCB-15 44'-DiCB	17.27	4.72E+07	1.56 Y	1.23	-	-	
PCB-19 22'6-TrCB	14.85	2.08E+07	1.03 Y	0.97	-	-	
PCB-30/18 246/22'5-TrCB	16.46	5.39E+07	1.02 Y	1.23	1.28	3.4%	
PCB-17 22'4-TrCB	16.83	2.32E+07	1.02 Y	1.06	1.10	4.0%	
PCB-27 23'6-TrCB	17.02	3.10E+07	1.03 Y	1.44	1.47	1.9%	
PCB-24 236-TrCB	17.13	2.99E+07	1.02 Y	1.37	1.42	3.5%	
PCB-16 22'3-TrCB	17.22	1.82E+07	1.04 Y	0.80	0.86	7.3%	
PCB-32 24'6-TrCB	17.67	3.33E+07	1.05 Y	1.59	1.58	-0.9%	
PCB-34 23'5'-TrCB	18.76	3.69E+07	1.06 Y	1.26	1.27	0.7%	
PCB-23 235-TrCB	18.89	3.81E+07	1.07 Y	1.31	1.31	0.3%	
PCB-26/29 23'5/245-TrCB	19.17	7.56E+07	1.07 Y	1.33	1.30	-2.2%	
PCB-25 23'4-TrCB	19.36	3.85E+07	1.06 Y	1.33	1.33	-0.2%	
PCB-31 24'5-TrCB	19.63	4.00E+07	1.08 Y	1.39	1.38	-0.6%	
PCB-28/20 244'/233'-TrCB	19.89	7.44E+07	1.07 Y	1.30	1.28	-1.2%	
PCB-21/33 234/23'4'-TrCB	20.05	7.80E+07	1.06 Y	1.34	1.35	0.3%	
PCB-22 234'-TrCB	20.42	3.59E+07	1.07 Y	1.22	1.24	1.8%	
PCB-36 33'5-TrCB	21.76	3.91E+07	1.08 Y	1.35	1.35	-0.1%	
PCB-39 34'5-TrCB	22.07	4.05E+07	1.07 Y	1.40	1.40	0.0%	
PCB-38 345-TrCB	22.56	3.67E+07	1.07 Y	1.25	1.26	1.1%	
PCB-35 33'4-TrCB	22.96	3.59E+07	1.07 Y	1.23	1.24	0.6%	
PCB-37 344'-TrCB	23.31	3.70E+07	1.08 Y	1.28	-	-	
PCB-54 22'66'-TeCB	17.52	2.97E+07	0.79 Y	1.00	-	-	
PCB-50/53 22'46/22'56'-TeCB	19.40	4.17E+07	0.77 Y	0.82	0.81	-0.8%	
PCB-45 22'36'-TeCB	19.95	1.88E+07	0.77 Y	0.73	0.73	0.1%	
PCB-51 22'46'-TeCB	20.02	2.04E+07	0.79 Y	0.79	0.79	0.1%	
PCB-46 22'36'-TeCB	20.22	1.72E+07	0.78 Y	0.66	0.67	1.1%	
PCB-52 22'55'-TeCB	21.45	2.04E+07	0.77 Y	0.79	0.79	0.5%	
PCB-73 23'5'6'-TeCB	21.57	2.64E+07	0.77 Y	1.06	1.03	-3.2%	

Lab ID: - Ax2 Detail				Processed: 9-Oct-2013 17:18		
Lab ID:	CS3_131002_PCB_SC	ICAL: MM4_PCB_07122013_11SEP2013				
Acquired:	02-OCT-2013 21:21					
Datafile:	131002S12					
Name	RT	Response	RA		RRF	
PCB-43 22'35'-TeCB	21.65	1.78E+07	0.78 Y	0.64	0.69	8.1%
PCB-69/49 23'46/22'45'-TeCB	21.84	4.91E+07	0.78 Y	0.95	0.95	0.6%
PCB-48 22'45'-TeCB	22.10	2.09E+07	0.78 Y	0.79	0.81	3.1%
PCB-44/47/65 ...-TeCB	22.31	6.55E+07	0.77 Y	0.84	0.85	0.9%
PCB-59/62/75 ...-TeCB	22.58	8.33E+07	0.78 Y	1.07	1.08	0.5%
PCB-42 22'34'-TeCB	22.74	1.87E+07	0.78 Y	0.72	0.73	0.9%
PCB-41 22'34'-TeCB	23.06	1.73E+07	0.75 Y	0.66	0.67	2.3%
PCB-71/40 23'4'6/22'33'-TeCB	23.16	4.18E+07	0.77 Y	0.79	0.81	2.3%
PCB-64 23'46'-TeCB	23.35	2.96E+07	0.78 Y	1.13	1.15	1.3%
PCB-72 23'55'-TeCB	24.08	3.40E+07	0.79 Y	1.31	1.32	0.8%
PCB-68 23'45'-TeCB	24.32	3.71E+07	0.79 Y	1.43	1.44	1.0%
PCB-57 23'35'-TeCB	24.68	3.27E+07	0.80 Y	1.26	1.27	0.9%
PCB-58 23'35'-TeCB	24.88	3.42E+07	0.80 Y	1.30	1.33	1.8%
PCB-67 23'45'-TeCB	25.02	3.56E+07	0.79 Y	1.35	1.38	2.8%
PCB-63 23'45'-TeCB	25.25	3.63E+07	0.79 Y	1.42	1.41	-0.7%
PCB-61/70/74/76 ...-TeCB	25.53	1.34E+08	0.79 Y	1.32	1.30	-1.7%
PCB-66 23'44'-TeCB	25.81	3.16E+07	0.78 Y	1.26	1.23	-2.7%
PCB-55 23'34'-TeCB	25.95	3.25E+07	0.80 Y	1.24	1.26	2.3%
PCB-56 23'34'-TeCB	26.38	3.11E+07	0.78 Y	1.22	1.21	-1.4%
PCB-60 23'44'-TeCB	26.56	3.27E+07	0.79 Y	1.29	1.27	-1.4%
PCB-80 33'55'-TeCB	26.92	3.76E+07	0.78 Y	1.42	1.46	2.9%
PCB-79 33'45'-TeCB	28.21	3.85E+07	0.80 Y	1.47	1.49	1.7%
PCB-78 33'45'-TeCB	28.68	3.14E+07	0.79 Y	1.23	1.22	-1.1%
PCB-104 22'466'-PeCB	22.25	2.80E+07	0.63 Y	1.06	-	-
PCB-96 22'366'-PeCB	22.56	2.40E+07	0.62 Y	0.90	0.87	-2.9%
PCB-103 22'45'6'-PeCB	24.22	1.76E+07	0.64 Y	0.84	0.85	1.1%
PCB-94 22'356'-PeCB	24.41	1.56E+07	0.60 Y	0.73	0.75	2.9%
PCB-95 22'35'6'-PeCB	24.79	1.65E+07	0.61 Y	0.78	0.79	2.0%
PCB-100/93 22'44'6/22'356'-PeC	24.98	3.43E+07	0.61 Y	0.77	0.83	6.8%
PCB-102 22'456'-PeCB	25.09	1.69E+07	0.61 Y	0.83	0.81	-2.4%
PCB-98 22'34'6'-PeCB	25.15	1.66E+07	0.61 Y	0.75	0.80	6.4%
PCB-88 22'346'-PeCB	25.44	1.52E+07	0.60 Y	0.74	0.73	-1.3%
PCB-91 22'34'6'-PeCB	25.52	1.84E+07	0.63 Y	0.83	0.89	7.0%
PCB-84 22'33'6'-PeCB	25.71	1.43E+07	0.63 Y	0.66	0.69	3.9%
PCB-89 22'346'-PeCB	26.11	1.52E+07	0.62 Y	0.69	0.73	5.6%
PCB-121 23'45'6'-PeCB	26.48	2.26E+07	0.63 Y	1.06	1.09	2.9%
PCB-92 22'355'-PeCB	26.79	1.60E+07	0.63 Y	0.73	0.77	5.5%
PCB-113/90/101 ...-PeCB	27.27	5.57E+07	0.63 Y	0.85	0.90	5.0%
PCB-83 22'33'5'-PeCB	27.69	1.44E+07	0.63 Y	0.65	0.70	7.8%

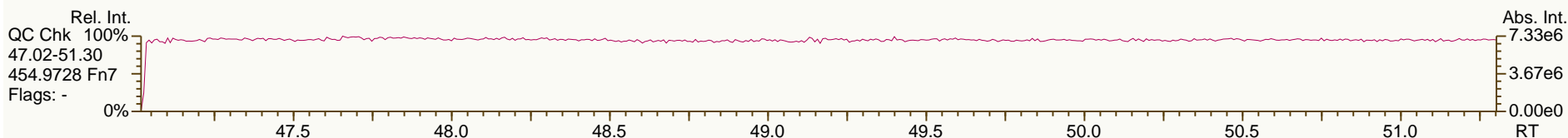
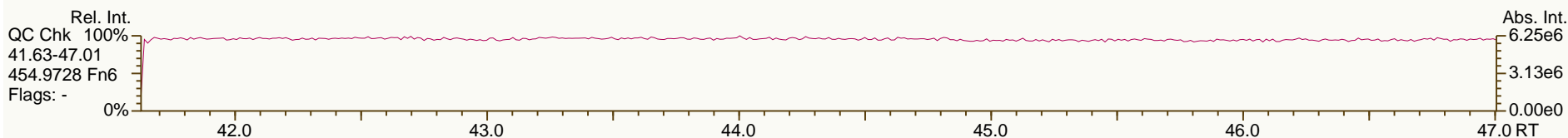
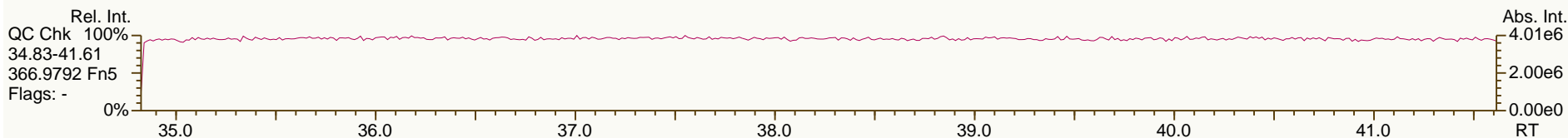
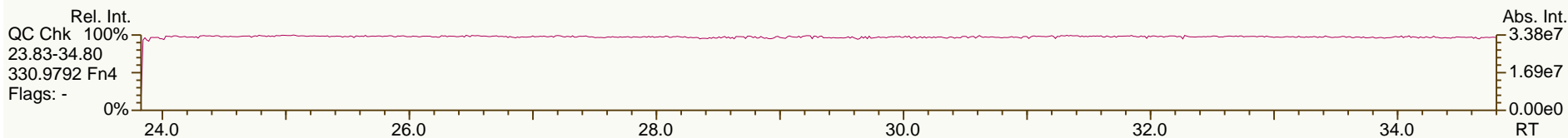
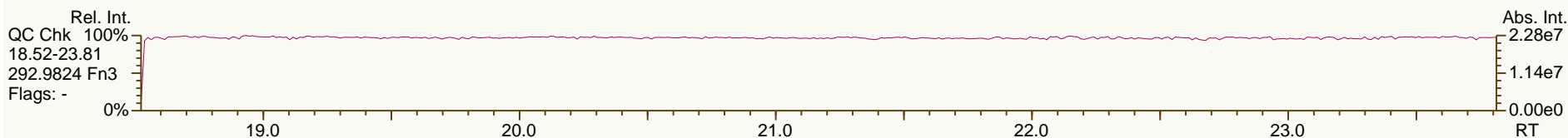
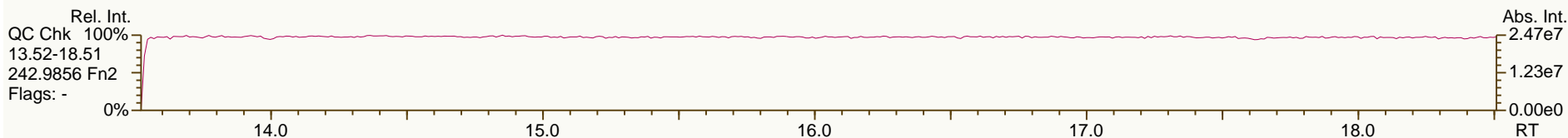
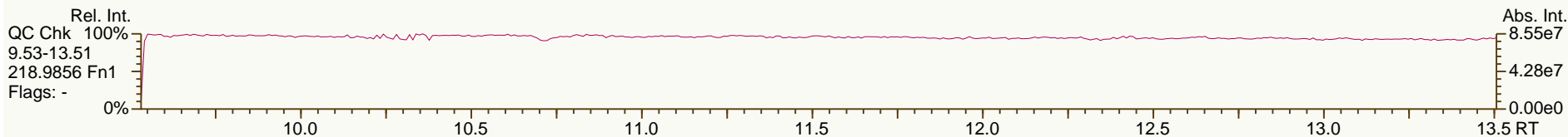
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Lab ID:	CS3_131002_PCB_SC	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	02-OCT-2013 21:21						
Datafile:	131002S12						
Name	RT	Response	RA		RRF		
PCB-99 22'44'5-PeCB	27.78	1.70E+07	0.64 Y	0.84	0.82	-2.3%	
PCB-112 233'56-PeCB	27.88	2.16E+07	0.64 Y	1.00	1.04	4.4%	
PCB-108/119/86/97/125...-PeCB	28.22	1.12E+08	0.64 Y	0.87	0.90	3.4%	
PCB-117 234'56-PeCB	28.74	1.98E+07	0.61 Y	0.88	0.95	8.7%	
PCB-116/85 23456/22'344'-PeCB	28.81	3.89E+07	0.62 Y	0.91	0.94	2.4%	
PCB-110 233'4'6-PeCB	28.95	1.86E+07	0.61 Y	0.99	0.90	-9.2%	
PCB-115 2344'6-PeCB	29.02	2.46E+07	0.62 Y	1.01	1.18	17.1%	
PCB-82 22'33'4-PeCB	29.22	1.38E+07	0.61 Y	0.62	0.67	6.7%	
PCB-111 233'55'-PeCB	29.57	2.29E+07	0.62 Y	1.07	1.10	3.2%	
PCB-120 23'455'-PeCB	29.96	2.31E+07	0.62 Y	1.07	1.11	3.9%	
PCB-107/124 ...-PeCB	30.92	4.19E+07	0.63 Y	0.98	1.01	2.7%	
PCB-109 233'46-PeCB	31.12	2.20E+07	0.60 Y	1.07	1.06	-0.8%	
PCB-106 233'45-PeCB	31.32	2.06E+07	0.60 Y	1.00	0.99	-0.6%	
PCB-122 233'4'5'-PeCB	31.79	2.06E+07	0.61 Y	0.89	0.94	6.0%	
PCB-127 33'455'-PeCB	33.74	2.18E+07	0.62 Y	0.98	1.03	4.8%	
PCB-155 22'44'66'-HxCB	27.09	2.75E+07	1.25 Y	1.12	-	-	
PCB-152 22'3566'-HxCB	27.25	2.58E+07	1.27 Y	1.05	1.05	-0.5%	
PCB-150 22'34'66'-HxCB	27.39	2.57E+07	1.25 Y	1.07	1.04	-2.1%	
PCB-136 22'33'66'-HxCB	27.70	2.38E+07	1.26 Y	0.99	0.97	-2.5%	
PCB-145 22'3466'-HxCB	27.95	2.42E+07	1.27 Y	1.00	0.98	-1.3%	
PCB-148 22'34'56'-HxCB	29.24	1.93E+07	1.25 Y	1.03	1.05	1.9%	
PCB-151/135 ...-HxCB	29.76	3.75E+07	1.26 Y	1.00	1.02	1.6%	
PCB-154 22'44'56'-HxCB	29.96	2.09E+07	1.26 Y	1.13	1.13	0.4%	
PCB-144 22'345'6-HxCB	30.22	1.89E+07	1.25 Y	1.03	1.02	-0.5%	
PCB-147/149 ...-HxCB	30.52	3.82E+07	1.25 Y	1.03	1.03	0.8%	
PCB-134 22'33'56-HxCB	30.69	1.48E+07	1.26 Y	0.84	0.80	-4.1%	
PCB-143 22'3456'-HxCB	30.77	1.92E+07	1.25 Y	0.95	1.04	9.8%	
PCB-139/140 ...-HxCB	31.03	3.92E+07	1.26 Y	1.05	1.06	1.3%	
PCB-131 22'33'46-HxCB	31.20	1.70E+07	1.25 Y	0.87	0.92	5.5%	
PCB-142 22'3456-HxCB	31.32	1.72E+07	1.24 Y	0.91	0.93	2.5%	
PCB-132 22'33'46'-HxCB	31.58	1.75E+07	1.26 Y	0.92	0.95	3.5%	
PCB-133 22'33'55'-HxCB	32.02	1.85E+07	1.26 Y	0.97	1.00	3.9%	
PCB-165 233'55'6-HxCB	32.35	2.24E+07	1.25 Y	1.19	1.21	1.4%	
PCB-146 22'34'55'-HxCB	32.56	2.00E+07	1.25 Y	1.08	1.08	0.0%	
PCB-161 233'45'6-HxCB	32.68	2.50E+07	1.26 Y	1.34	1.36	1.0%	
PCB-153/168 ...-HxCB	33.10	4.65E+07	1.24 Y	1.26	1.26	0.3%	
PCB-141 22'3455'-HxCB	33.24	1.81E+07	1.23 Y	0.98	0.98	0.4%	
PCB-130 22'33'45'-HxCB	33.59	1.62E+07	1.25 Y	0.88	0.88	0.1%	
PCB-137 22'344'5-HxCB	33.77	1.87E+07	1.28 Y	1.07	1.01	-5.5%	
PCB-164 233'4'5'6-HxCB	33.87	2.44E+07	1.25 Y	1.29	1.33	2.7%	
PCB-163/138/129 ...-HxCB	34.15	5.70E+07	1.23 Y	1.05	1.03	-1.6%	

Lab ID: - Ax2 Detail			Processed: 9-Oct-2013 17:18			
Lab ID:	CS3_131002_PCB_SC	ICAL: MM4_PCB_07122013_11SEP2013				
Acquired:	02-OCT-2013 21:21					
Datafile:	131002S12					
Name	RT	Response	RA		RRF	
PCB-160 233'456'-HxCB	34.27	2.48E+07	1.24 Y	1.26	1.34	6.9%
PCB-158 233'44'6'-HxCB	34.46	2.54E+07	1.25 Y	1.40	1.38	-1.6%
PCB-128/166 ...-HxCB	35.19	3.53E+07	1.26 Y	0.89	0.90	1.8%
PCB-159 233'455'-HxCB	36.03	2.11E+07	1.25 Y	1.04	1.08	3.8%
PCB-162 233'4'55'-HxCB	36.28	2.15E+07	1.28 Y	1.04	1.10	5.6%
PCB-188 22'34'566'-HpCB	31.93	2.76E+07	1.02 Y	0.97	-	-
PCB-179 22'33'566'-HpCB	32.22	2.52E+07	1.03 Y	0.89	0.89	-1.1%
PCB-184 22'344'66'-HpCB	32.67	2.50E+07	1.03 Y	0.87	0.88	0.5%
PCB-176 22'33'466'-HpCB	32.96	2.75E+07	1.06 Y	0.97	0.97	0.1%
PCB-186 22'34566'-HpCB	33.35	2.59E+07	1.06 Y	0.93	0.91	-2.6%
PCB-178 22'33'55'6'-HpCB	34.52	1.93E+07	1.07 Y	0.67	0.68	0.7%
PCB-175 22'33'45'6'-HpCB	35.05	1.65E+07	1.04 Y	0.97	0.96	-1.4%
PCB-187 22'34'55'6'-HpCB	35.28	1.73E+07	1.04 Y	1.02	1.00	-1.4%
PCB-182 22'344'56'-HpCB	35.45	1.79E+07	1.05 Y	1.05	1.04	-1.0%
PCB-183 22'344'5'6'-HpCB	35.80	1.72E+07	1.02 Y	1.07	1.00	-6.4%
PCB-185 22'3455'6'-HpCB	35.88	1.77E+07	1.03 Y	0.96	1.03	7.4%
PCB-174 22'33'456'-HpCB	36.00	1.51E+07	1.04 Y	0.86	0.88	2.3%
PCB-177 22'33'45'6'-HpCB	36.37	1.50E+07	1.05 Y	0.83	0.87	4.4%
PCB-181 22'344'56'-HpCB	36.70	1.72E+07	1.03 Y	1.00	1.00	0.2%
PCB-171/173 ...-HpCB	36.88	3.02E+07	1.05 Y	0.86	0.88	1.6%
PCB-172 22'33'455'-HpCB	38.27	1.57E+07	1.04 Y	0.87	0.91	4.5%
PCB-192 233'455'6'-HpCB	38.51	2.01E+07	1.04 Y	1.19	1.17	-1.6%
PCB-180/193 ...-HpCB	38.79	3.83E+07	1.04 Y	1.11	1.11	0.2%
PCB-191 233'44'5'6'-HpCB	39.12	2.10E+07	1.05 Y	1.23	1.22	-1.2%
PCB-170 22'33'44'5'-HpCB	39.88	1.52E+07	1.03 Y	1.01	1.02	1.4%
PCB-190 233'44'56'-HpCB	40.33	2.03E+07	1.05 Y	1.42	1.36	-3.7%
PCB-202 22'33'55'66'-OcCB	36.47	1.94E+07	0.88 Y	0.83	-	-
PCB-201 22'33'45'66'-OcCB	37.25	2.14E+07	0.87 Y	0.94	0.93	-1.5%
PCB-204 22'344'566'-OcCB	37.82	2.00E+07	0.89 Y	0.87	0.87	-0.3%
PCB-197 22'33'44'66'-OcCB	38.01	2.30E+07	0.90 Y	0.97	1.00	2.6%
PCB-200 22'33'4566'-OcCB	38.10	2.05E+07	0.90 Y	0.89	0.89	-0.1%
PCB-198/199 ...-OcCB	40.46	3.08E+07	0.88 Y	0.66	0.67	1.8%
PCB-196 22'33'44'56'-OcCB	41.03	1.61E+07	0.88 Y	0.70	0.70	-0.9%
PCB-203 22'344'55'6'-OcCB	41.19	1.65E+07	0.89 Y	0.74	0.72	-2.6%
PCB-195 22'33'44'56'-OcCB	42.31	1.22E+07	0.89 Y	0.78	0.83	6.5%
PCB-194 22'33'44'55'-OcCB	44.29	1.34E+07	0.91 Y	0.85	0.91	7.4%
PCB-205 233'44'55'6'-OcCB	44.68	1.65E+07	0.91 Y	1.08	-	-
PCB-208 22'33'455'66'-NoCB	42.11	1.65E+07	0.77 Y	0.99	-	-
PCB-207 22'33'44'566'-NoCB	42.89	1.71E+07	0.75 Y	1.03	1.03	0.6%
PCB-206 22'33'44'55'6'-NoCB	46.15	1.19E+07	0.76 Y	0.83	-	-

SGS-AP ID: CS3_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 13

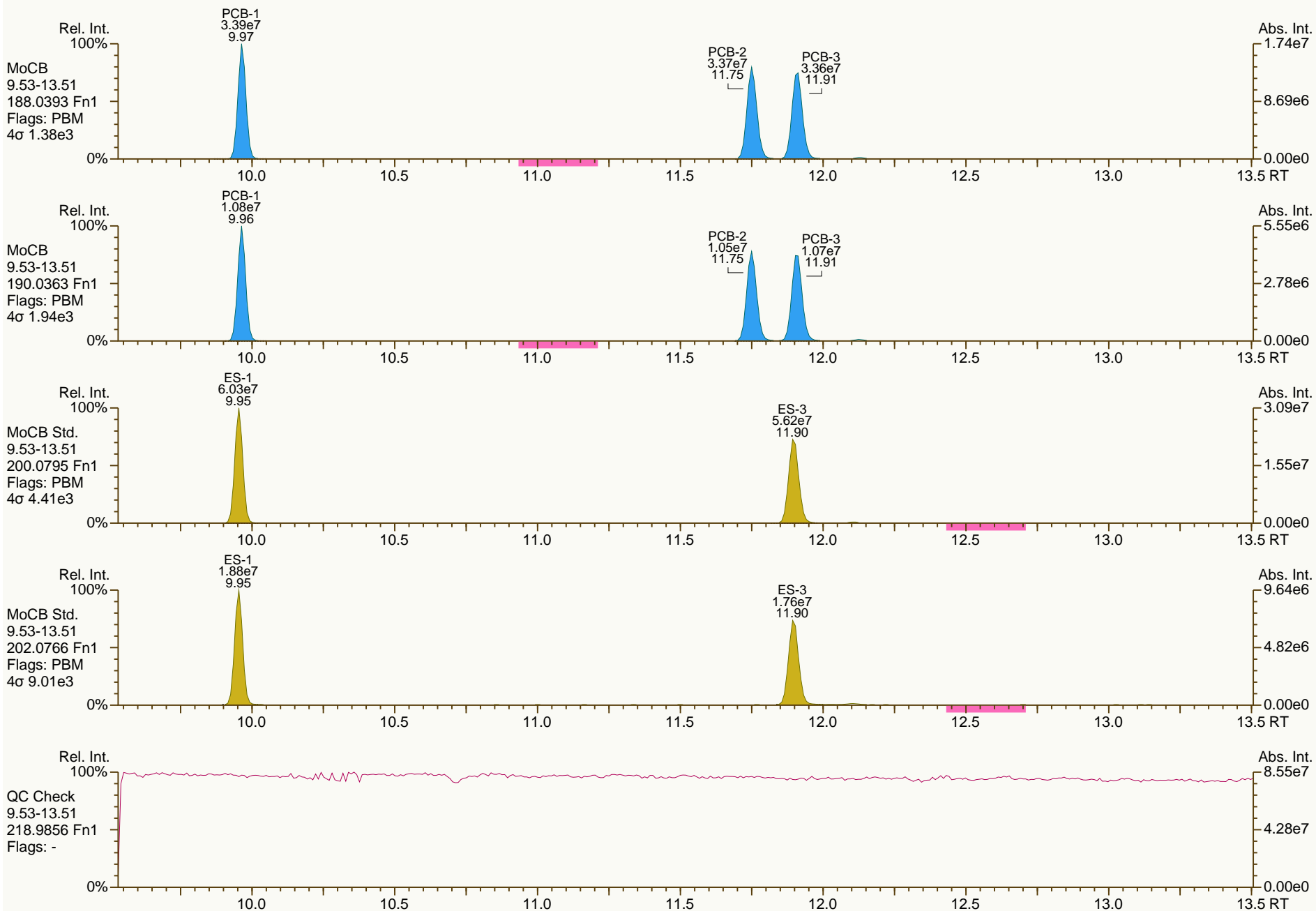
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SGS-AP ID: CS3_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 13

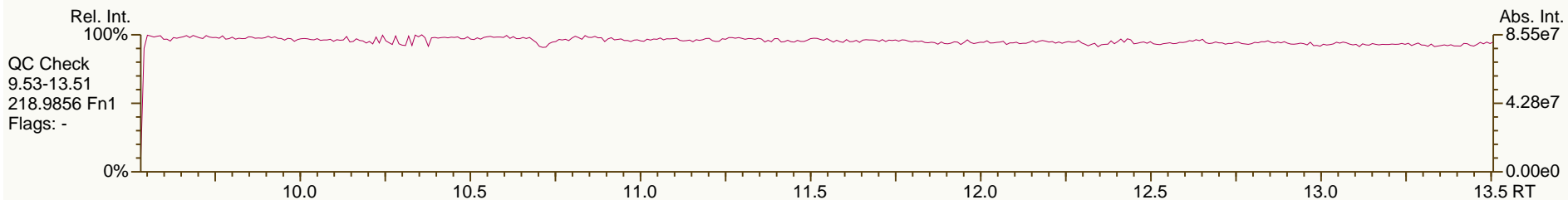
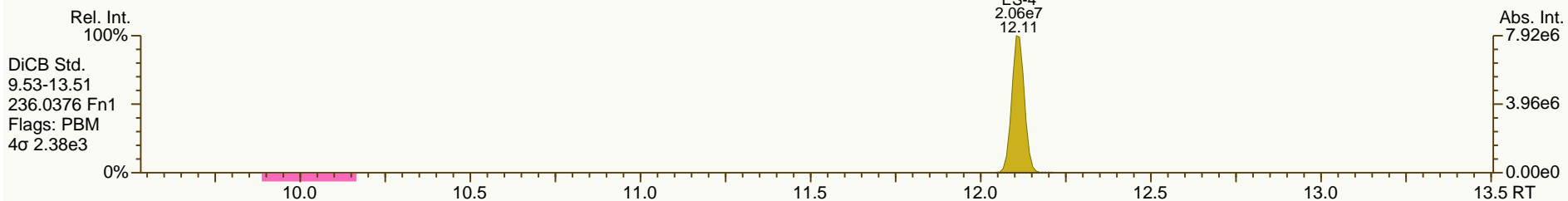
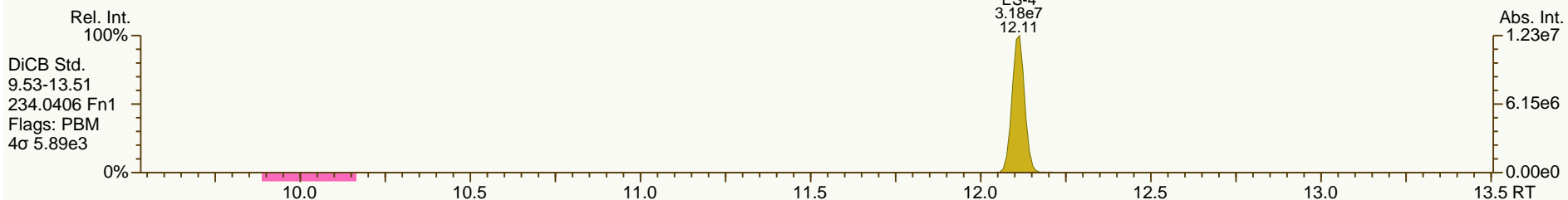
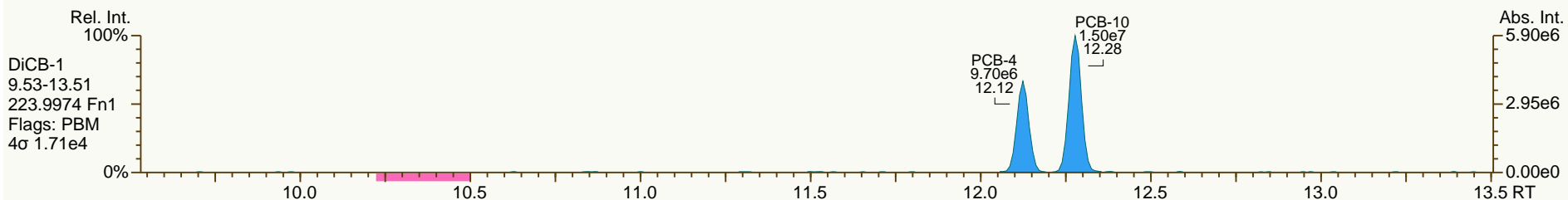
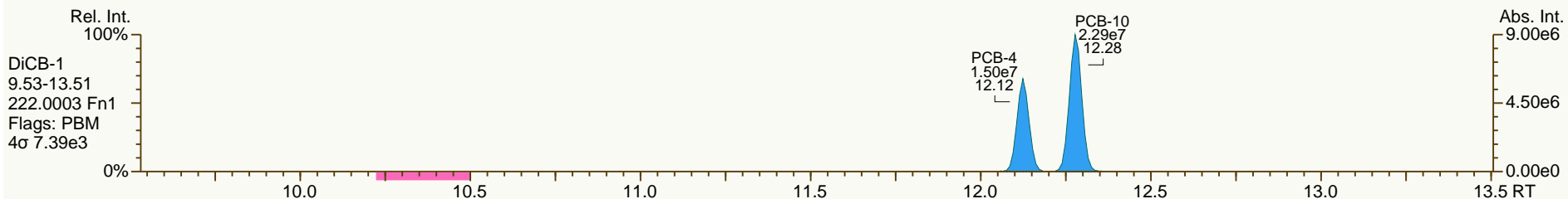
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SGS-AP ID: CS3_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 13

Acq: 02-Oct-2013 21:21:37
 User: CTW Datafile: 131002S12



SGS-AP ID: CS3_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 13

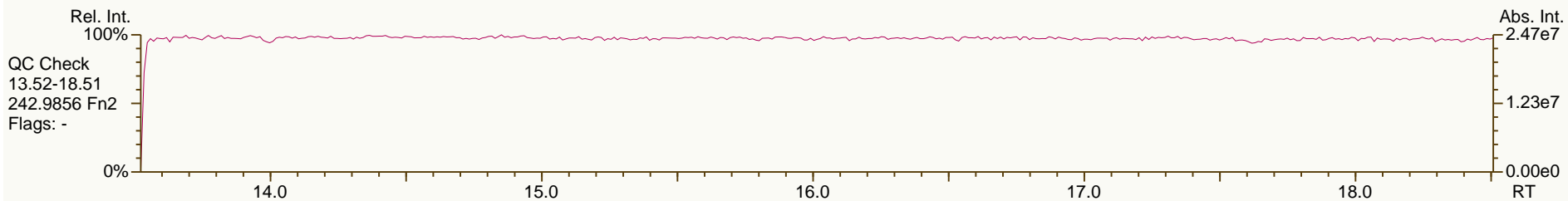
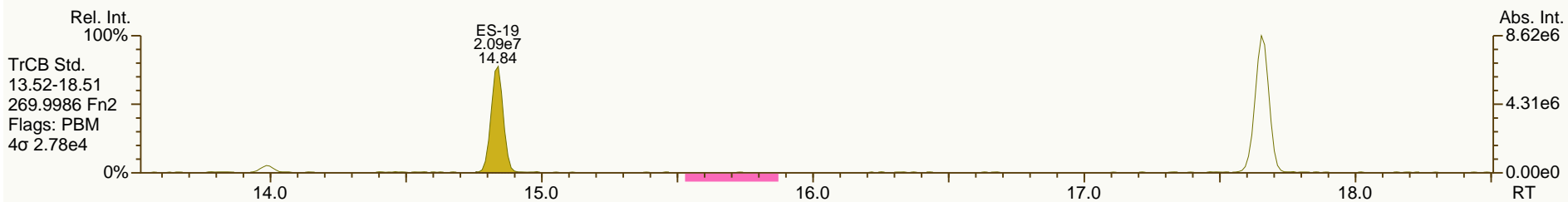
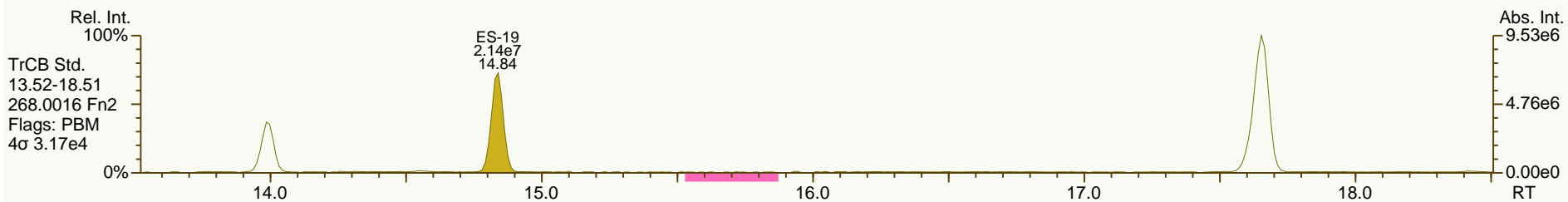
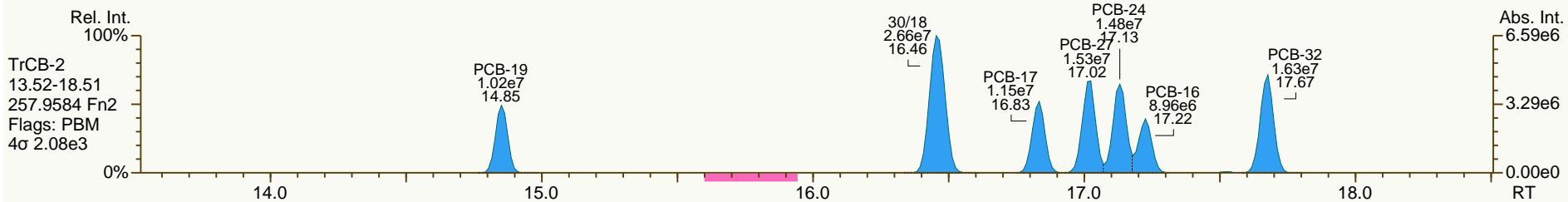
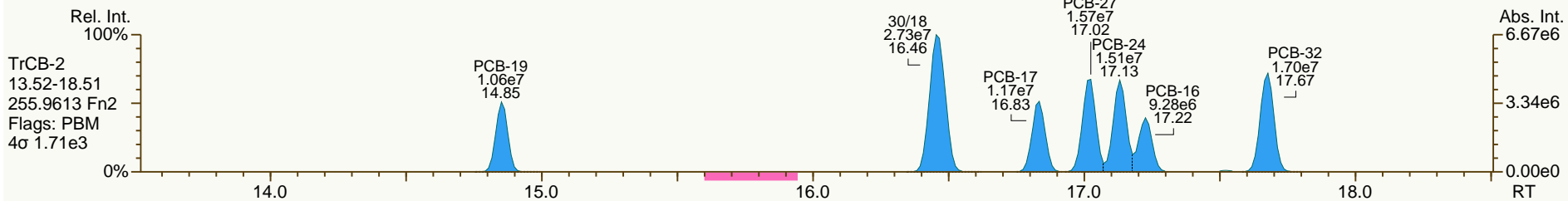
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SGS-AP ID: CS3_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 13

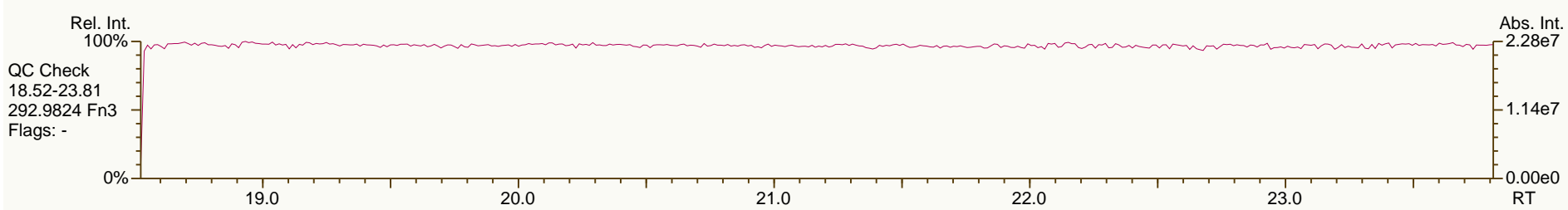
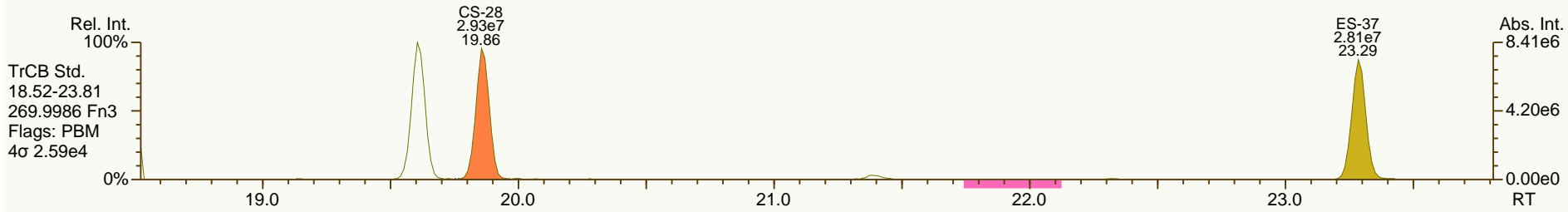
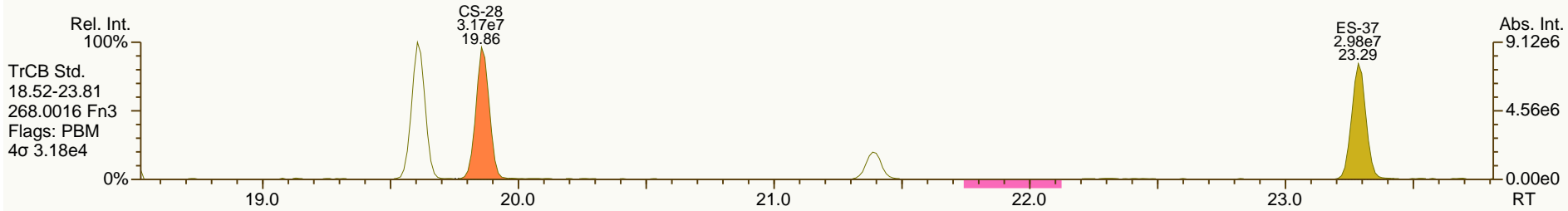
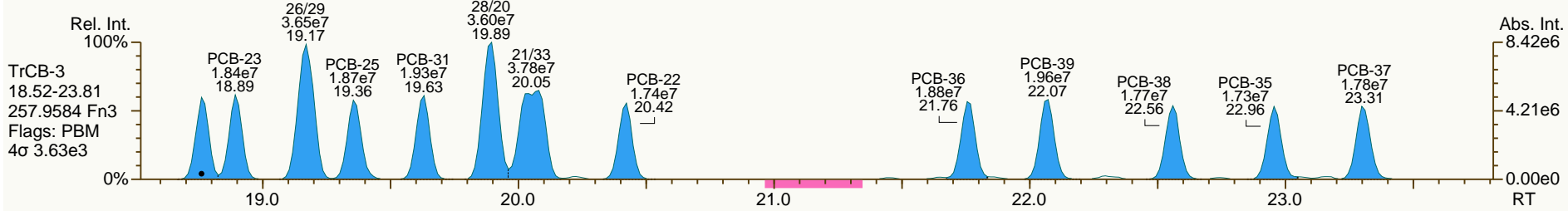
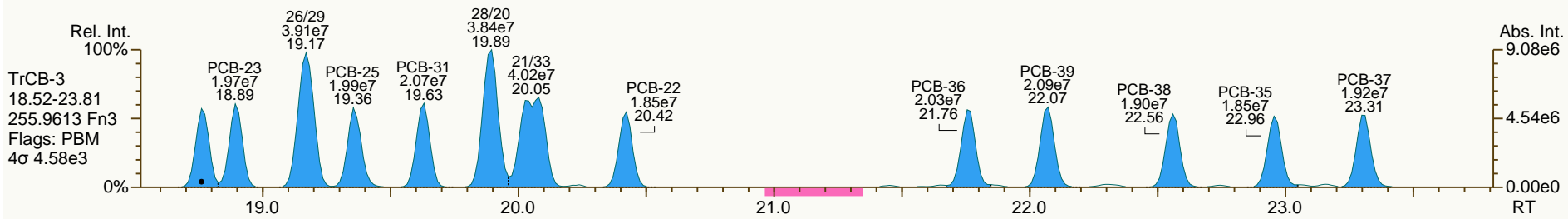
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SGS-AP ID: CS3_131002_PCB_SC
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 13

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User: CTW Datafile: 131002S12



SGS-AP ID: CS3_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

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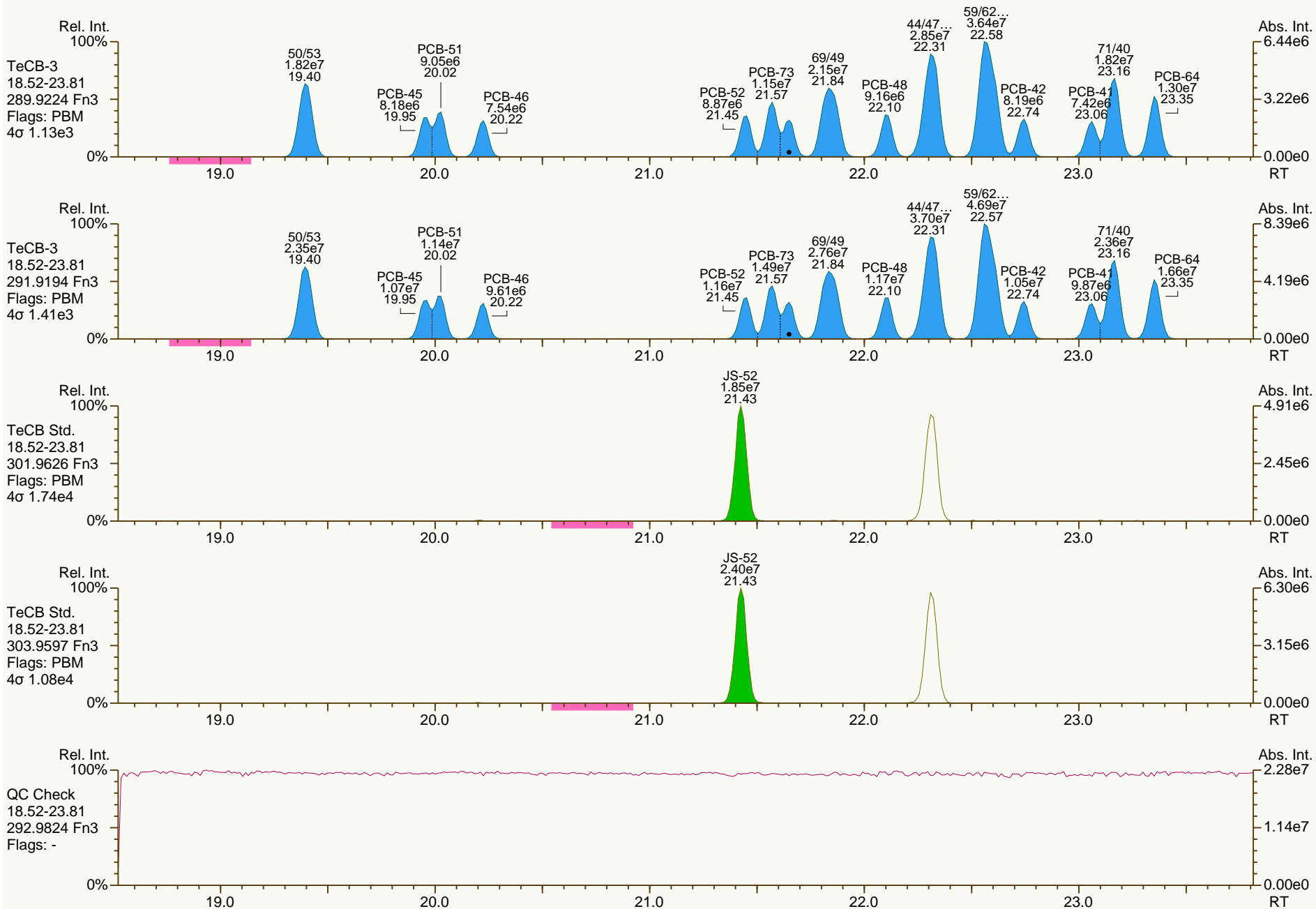
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SGS-AP ID: CS3_131002_PCB_SC
Instr: AutoSpec-Ultima MM4

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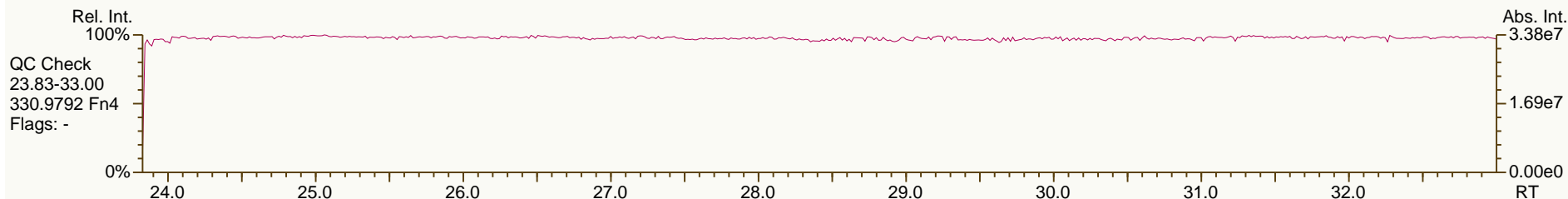
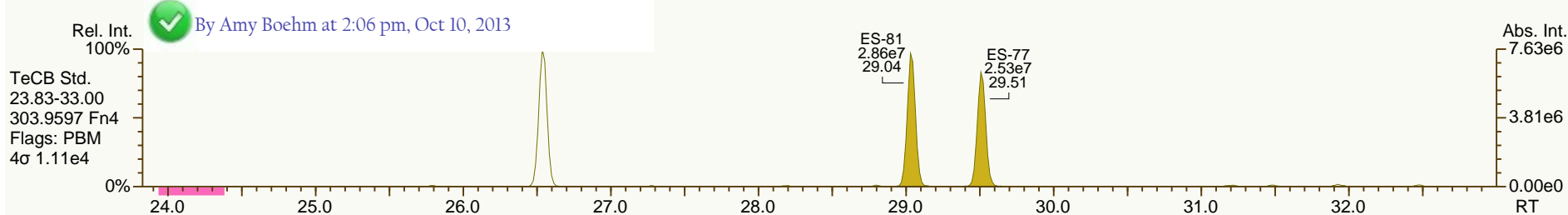
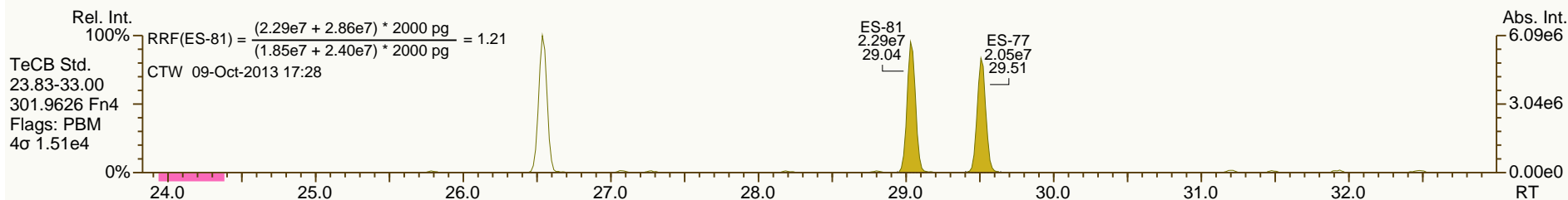
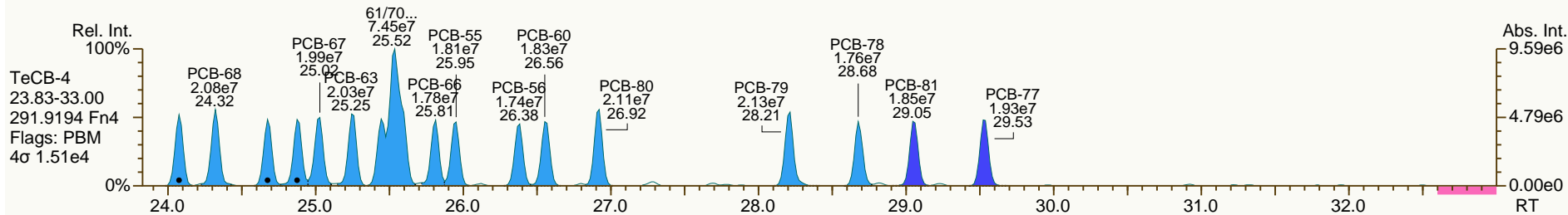
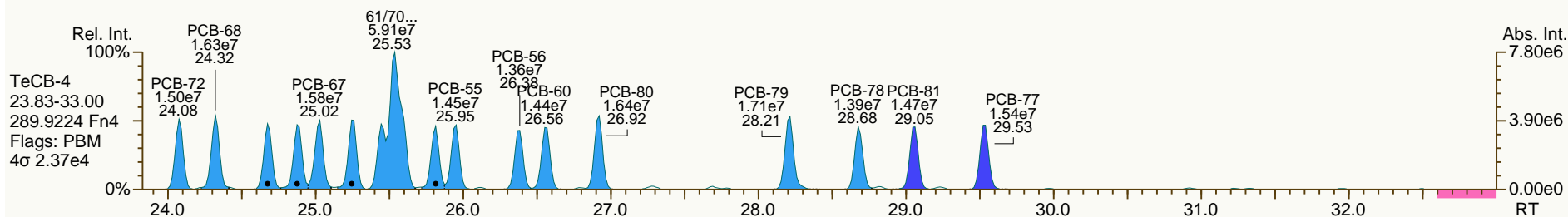
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SGS-AP ID: CS3_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

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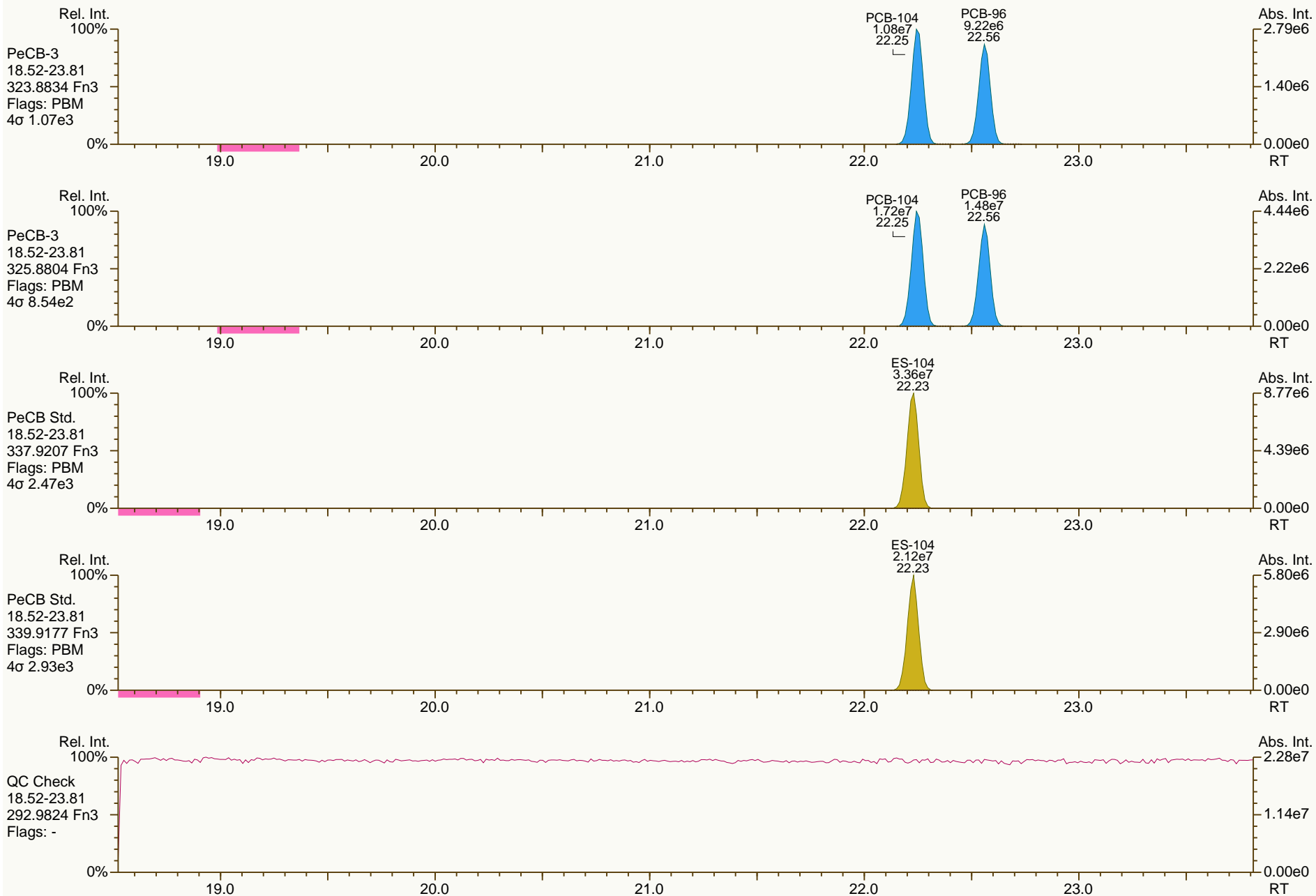
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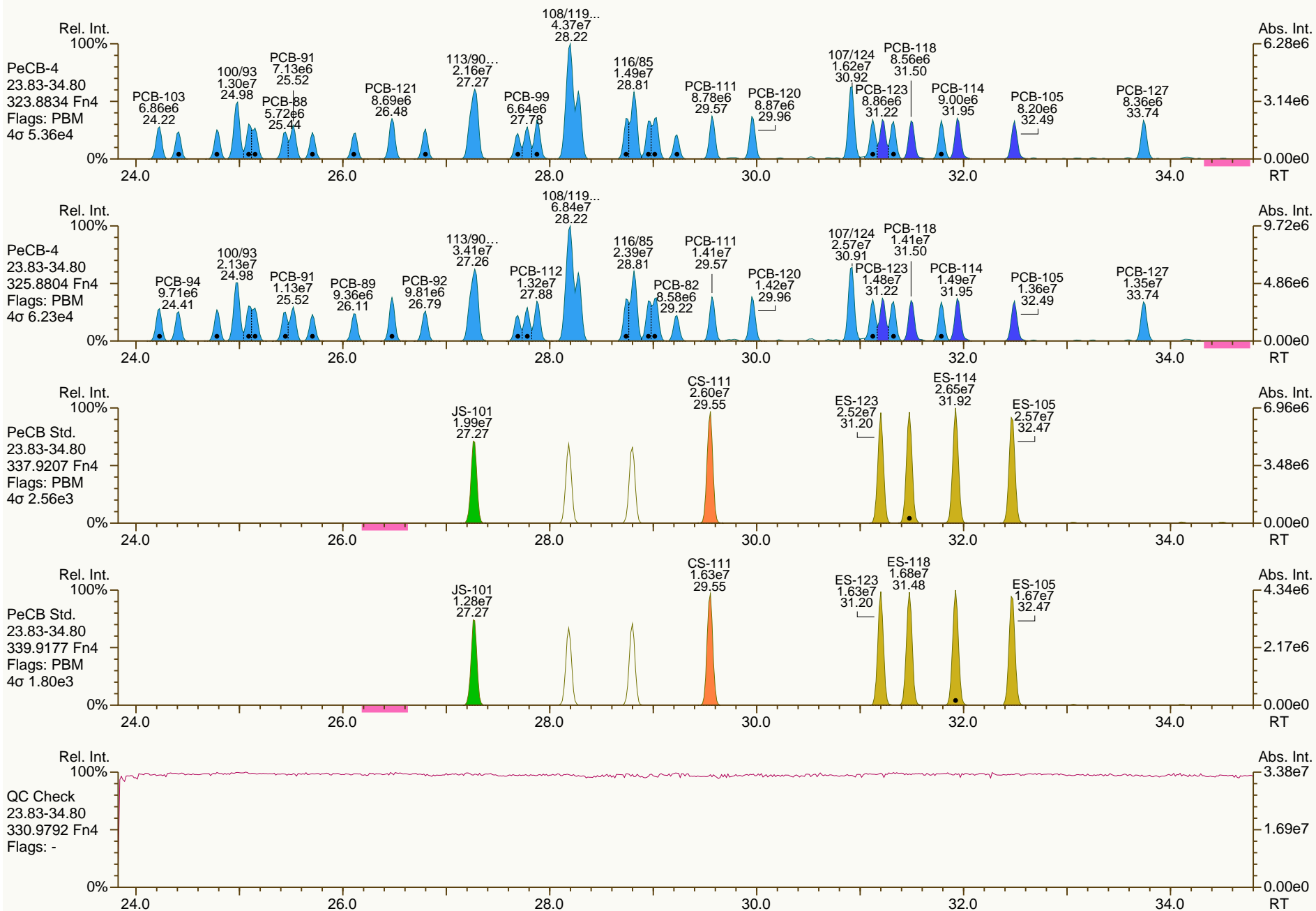
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SGS-AP ID: CS3_131002_PCB_SC
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
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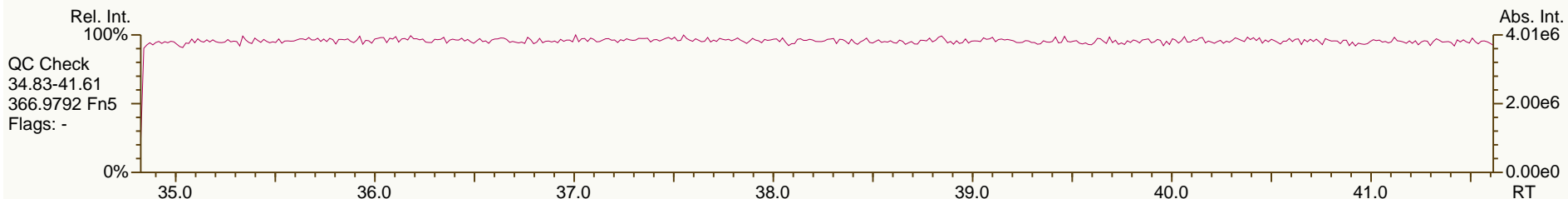
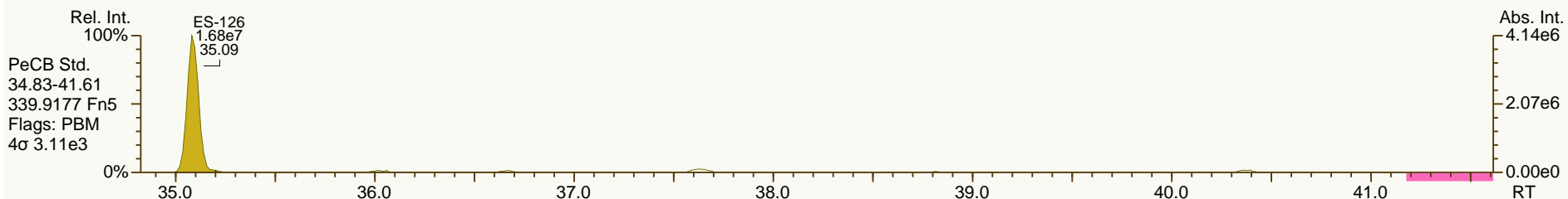
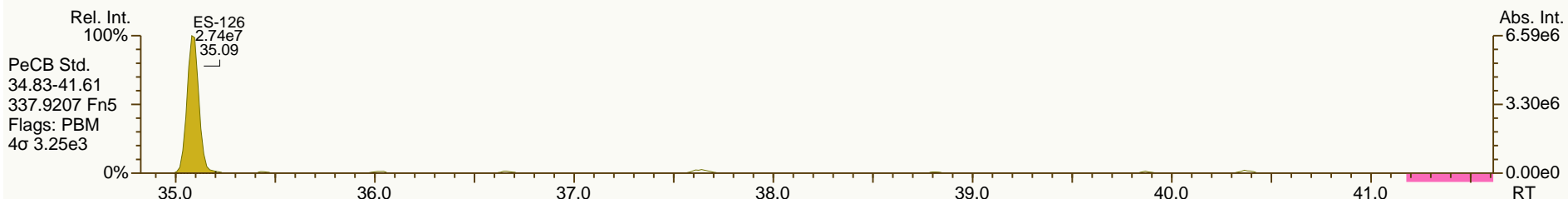
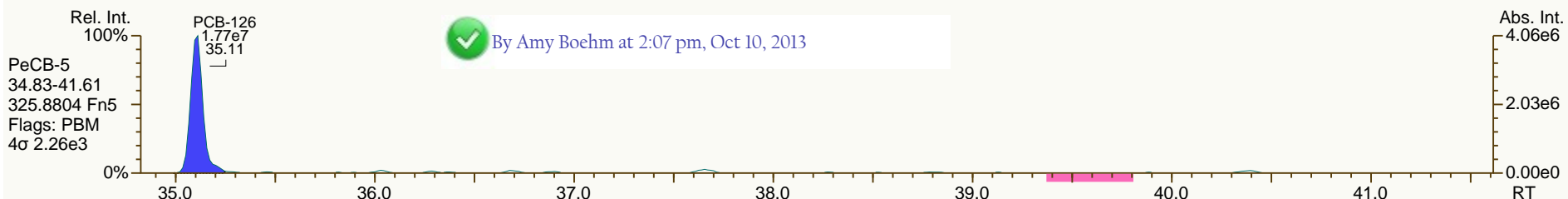
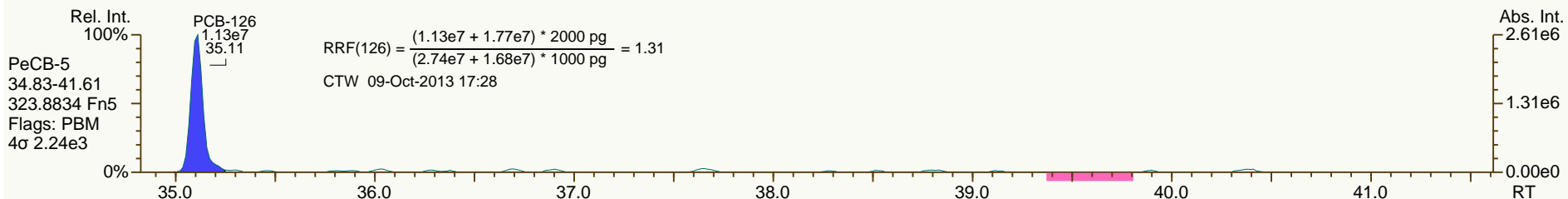
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SGS-AP ID: CS3_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
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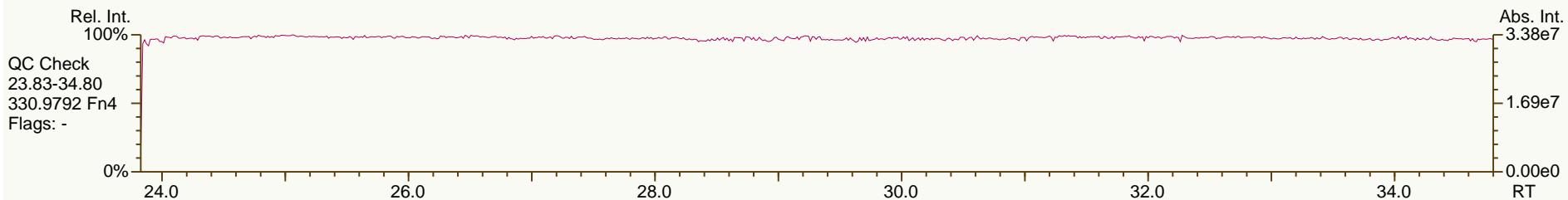
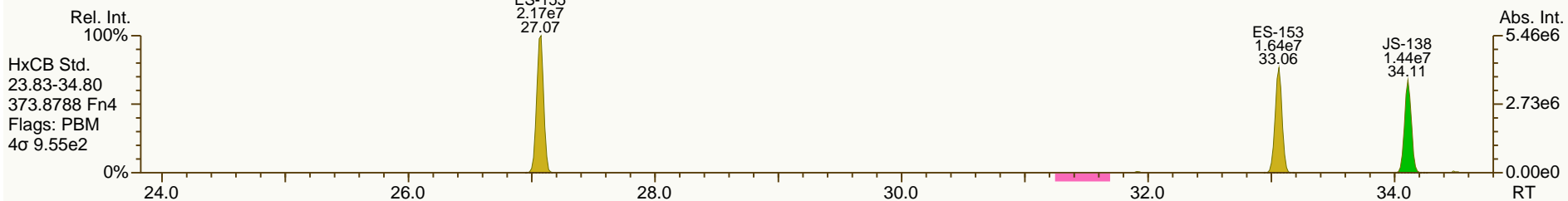
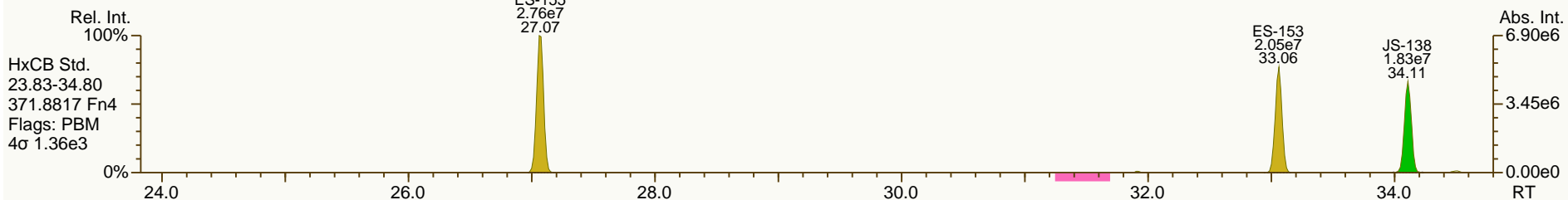
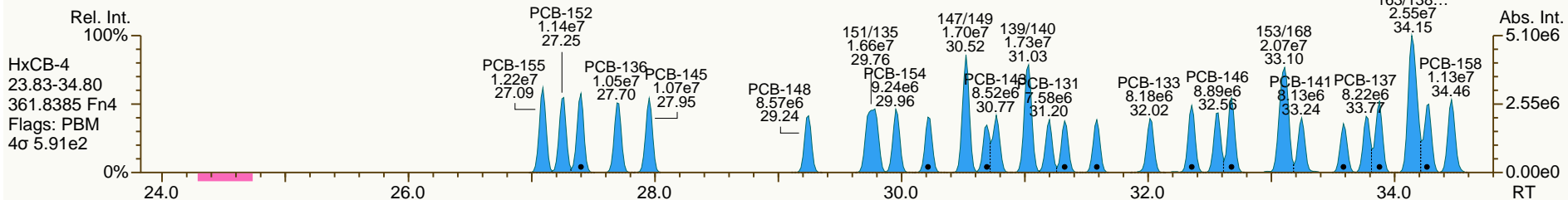
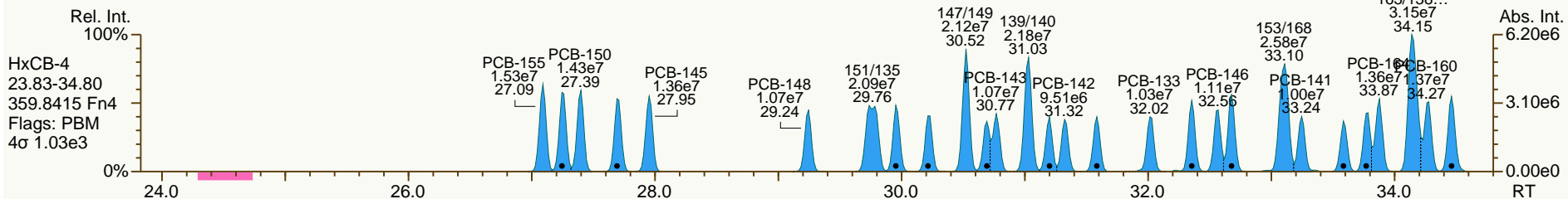
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SGS-AP ID: CS3_131002_PCB_SC
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Sample ID: SIL 13-40-1
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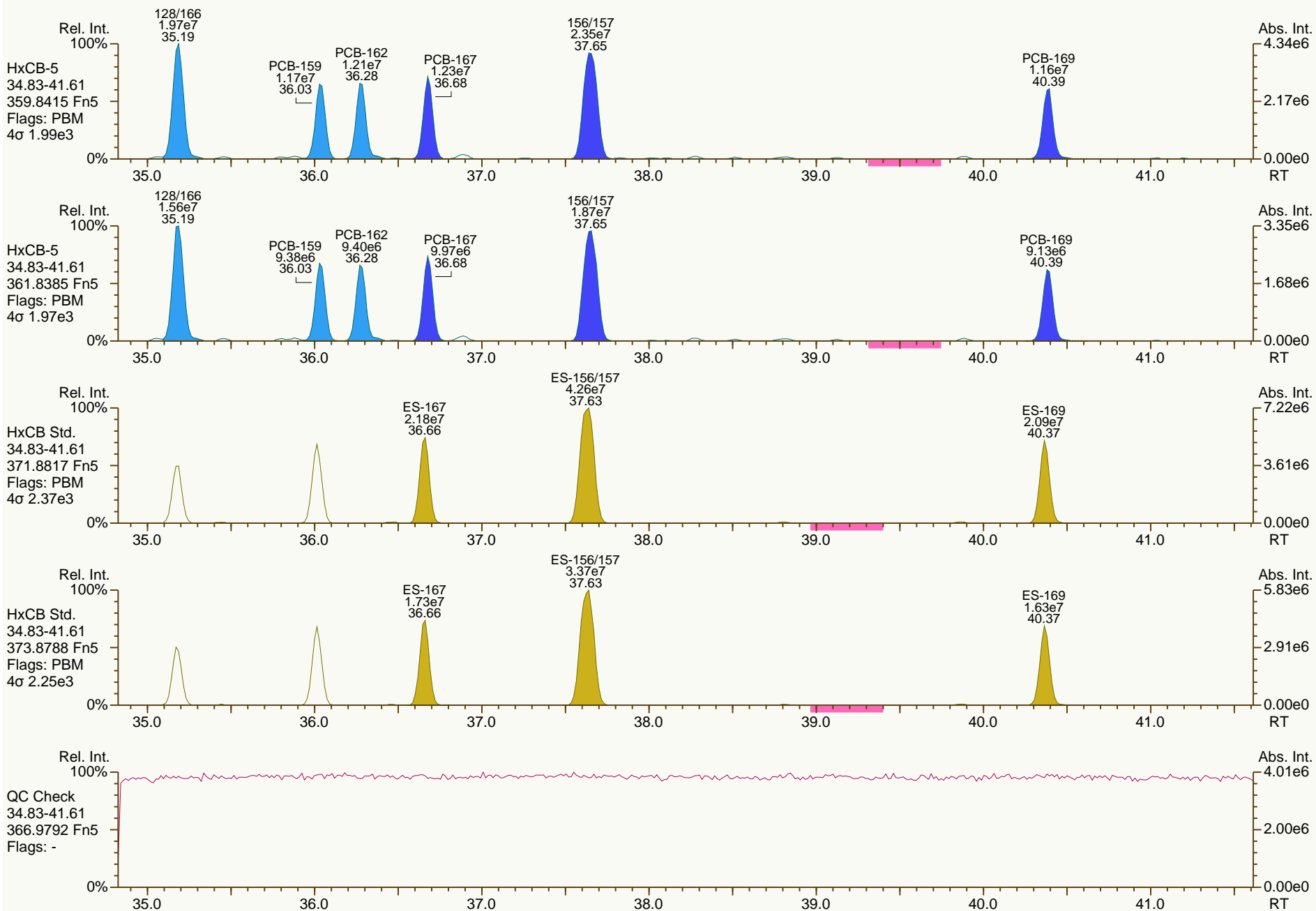
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SGS-AP ID: CS3_131002_PCB_SC
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Sample ID: SIL 13-40-1
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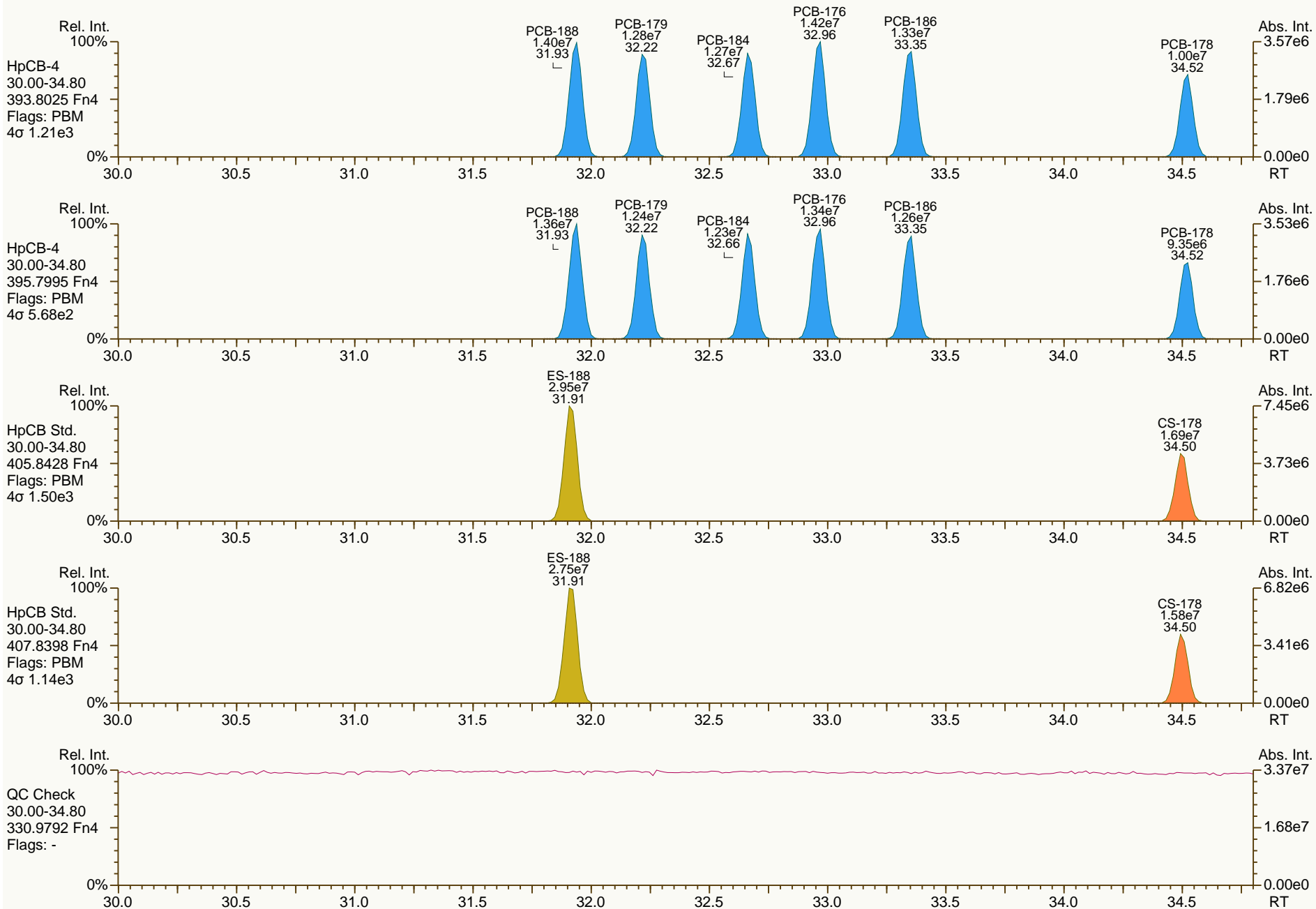
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SGS-AP ID: CS3_131002_PCB_SC
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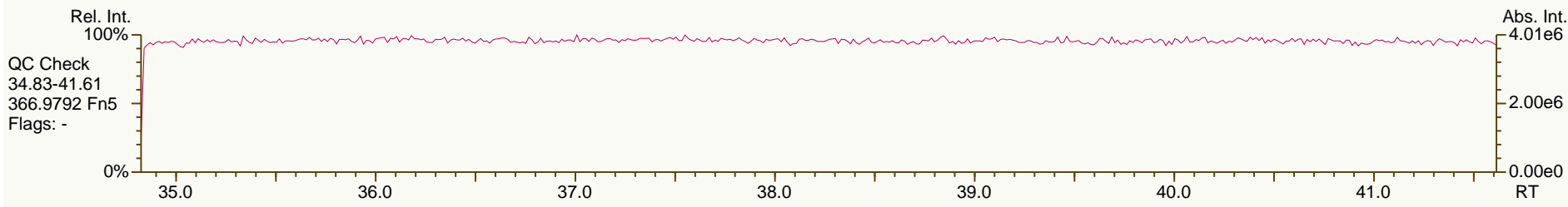
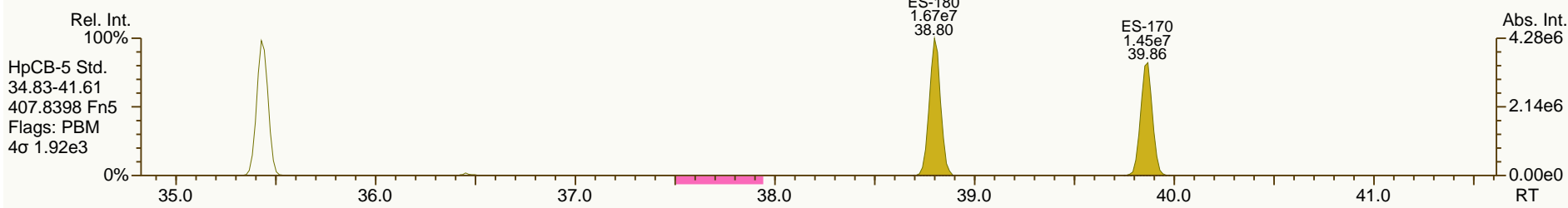
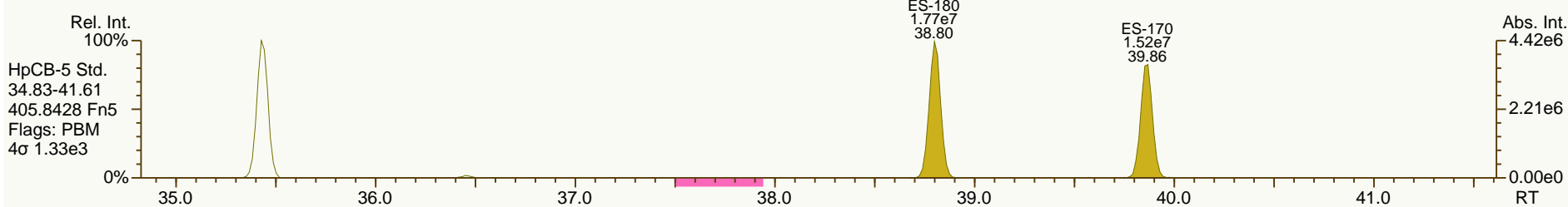
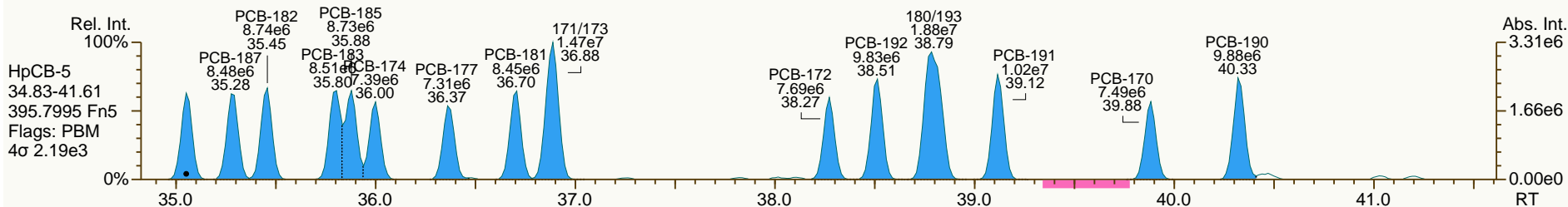
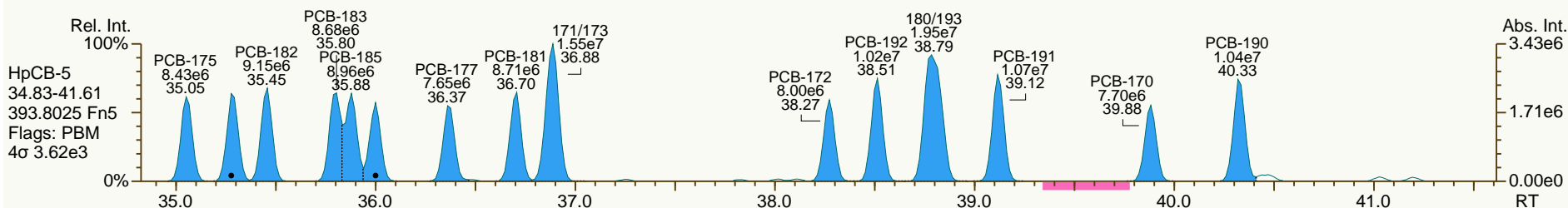
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SGS-AP ID: CS3_131002_PCB_SC
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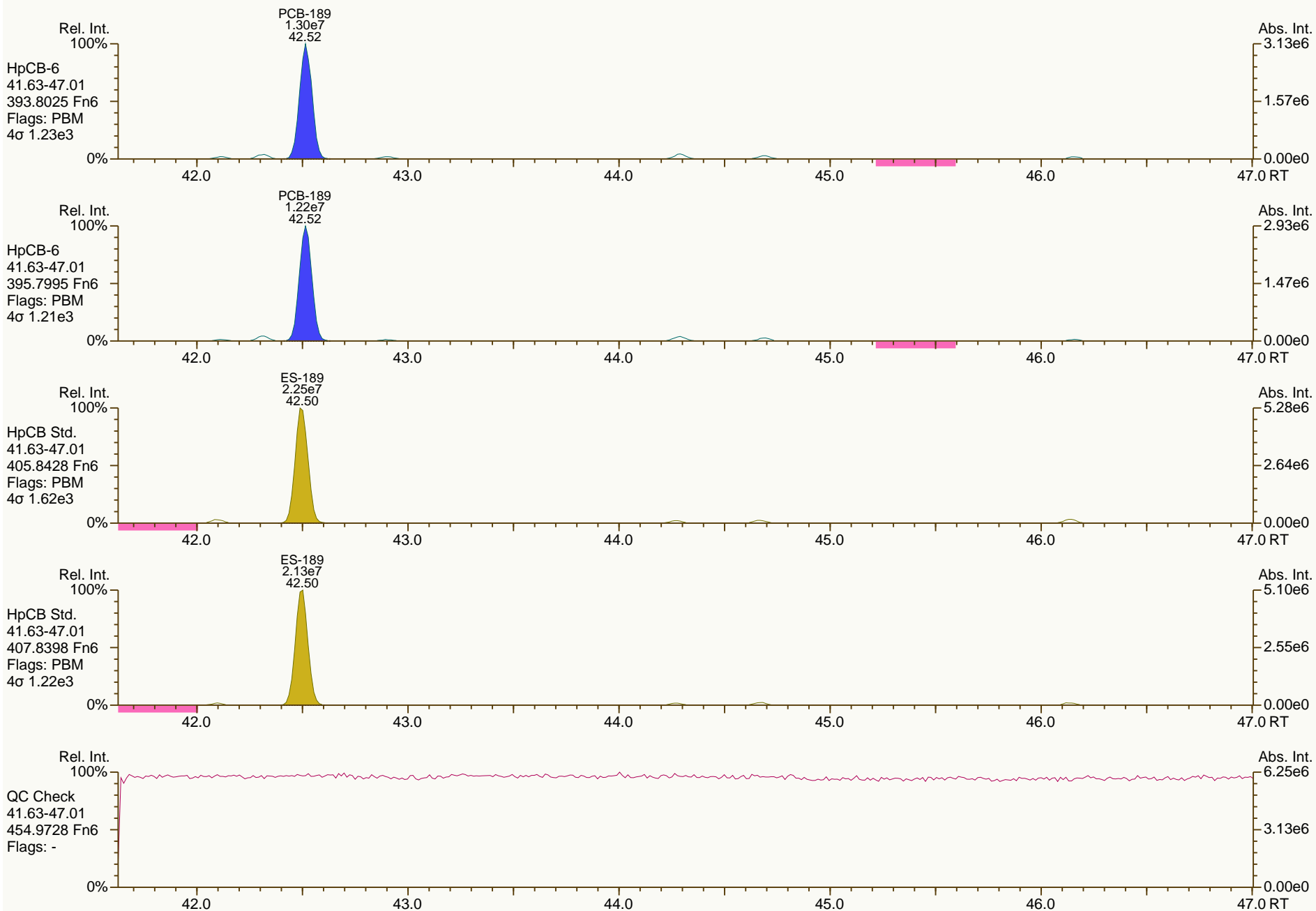
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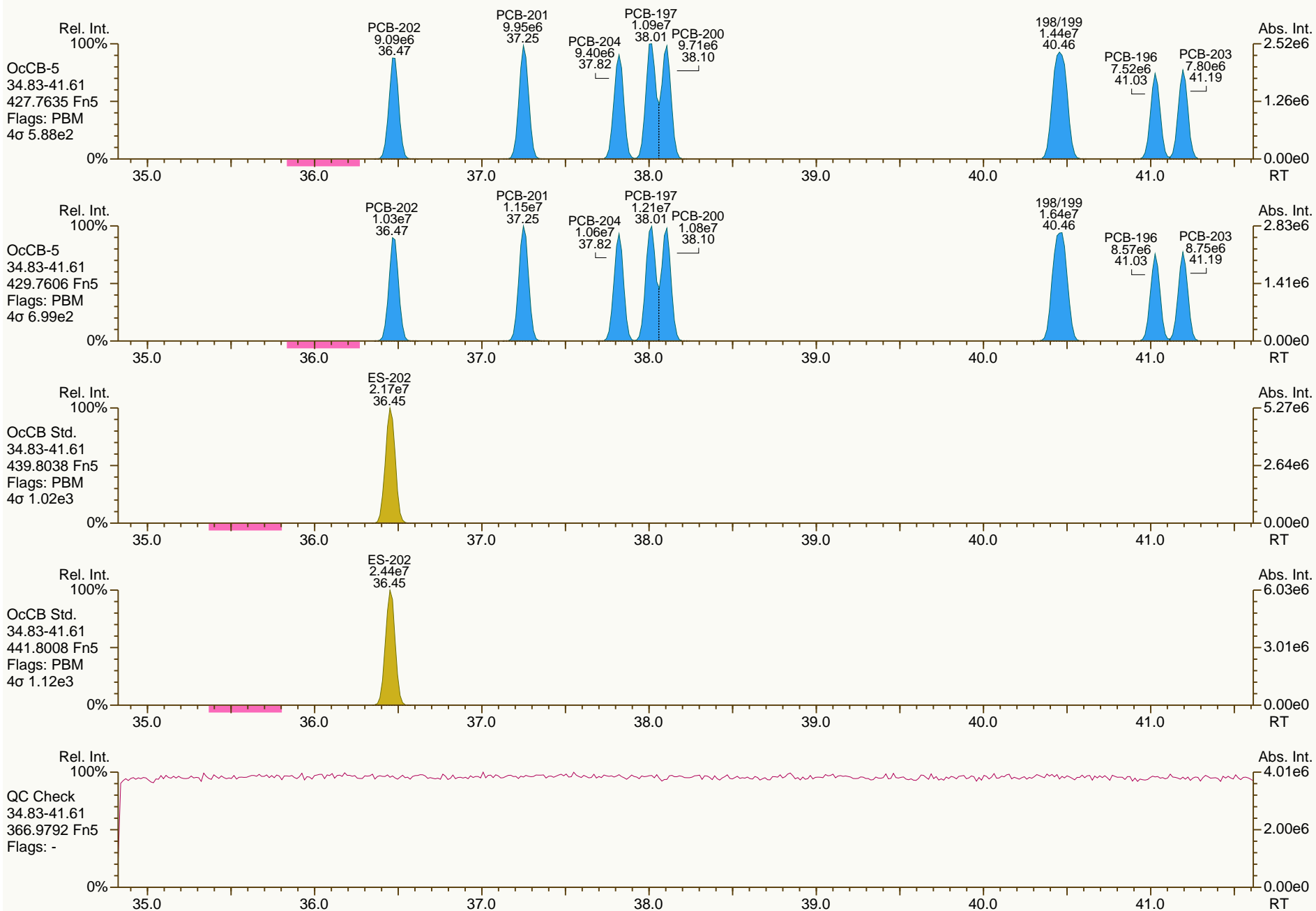
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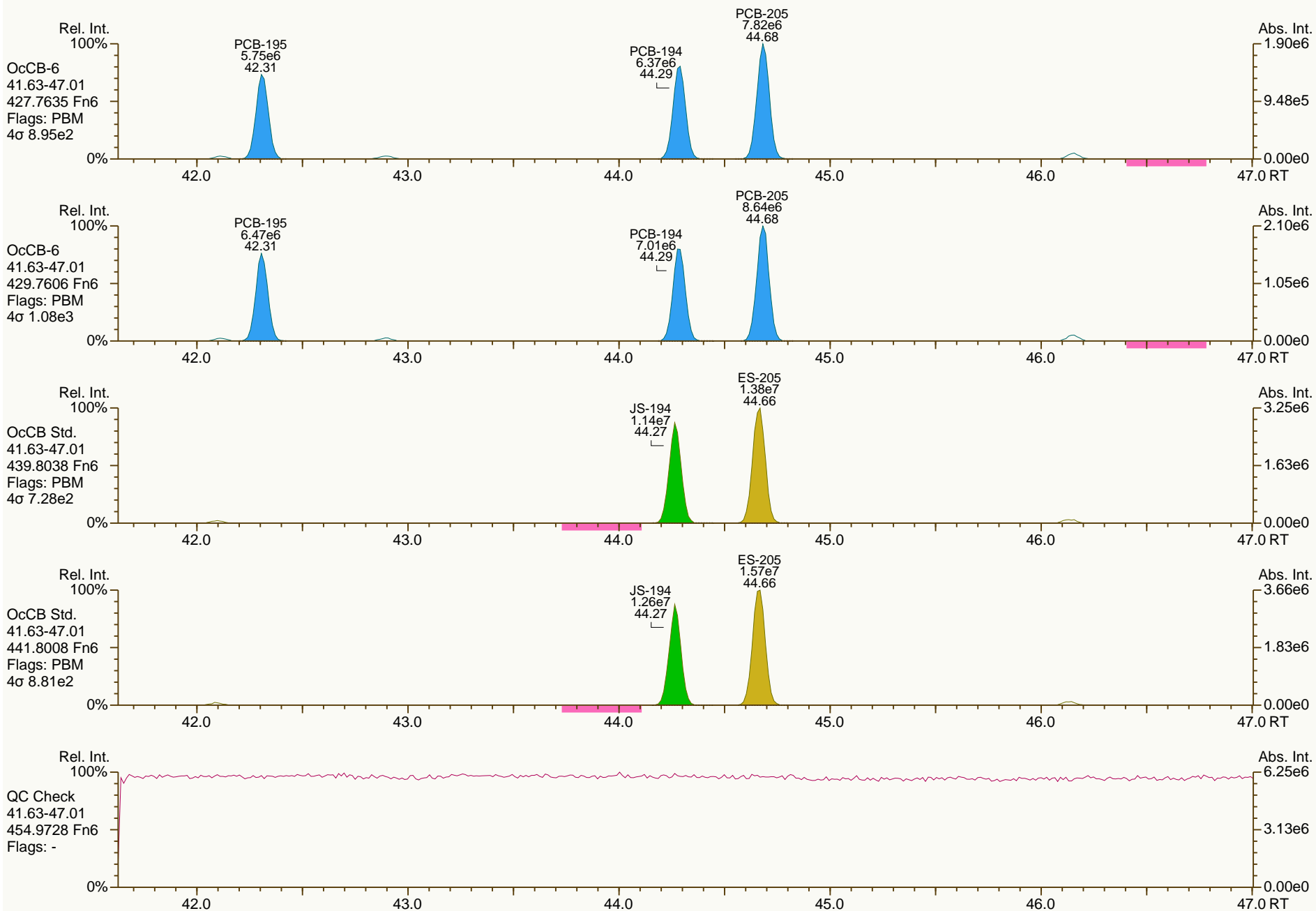
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SGS-AP ID: CS3_131002_PCB_SC
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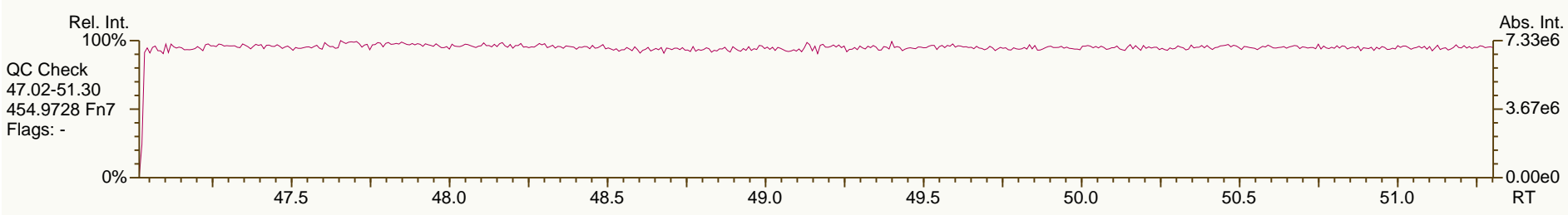
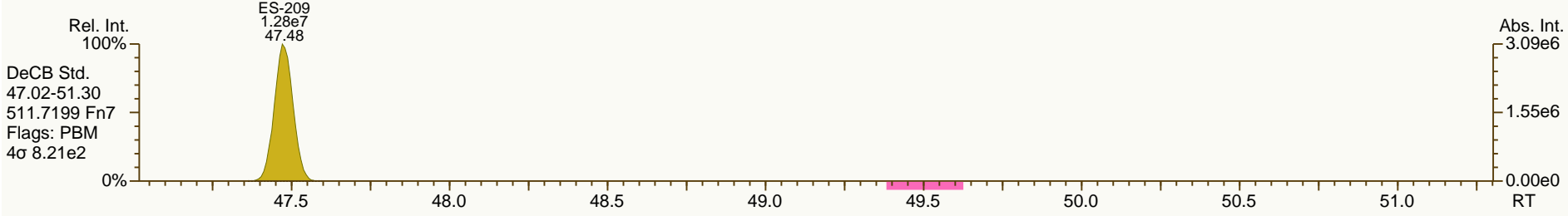
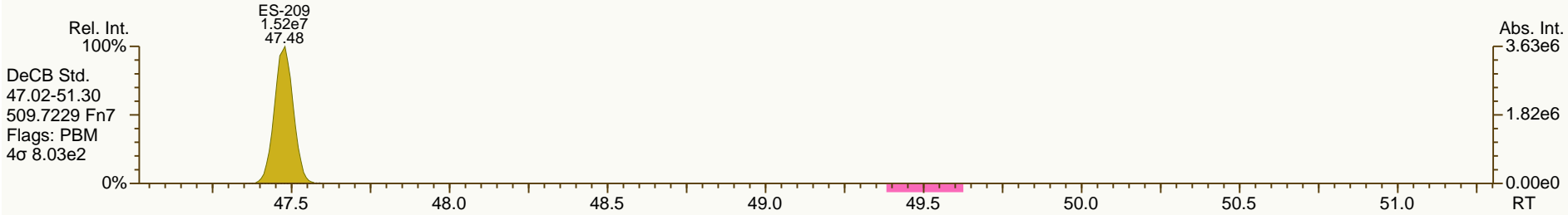
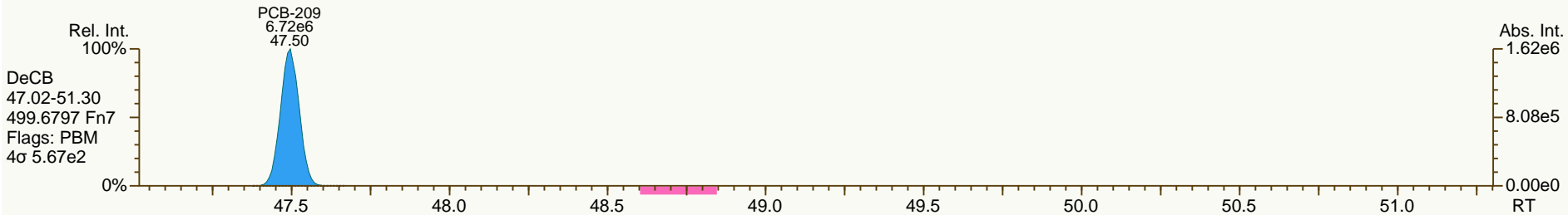
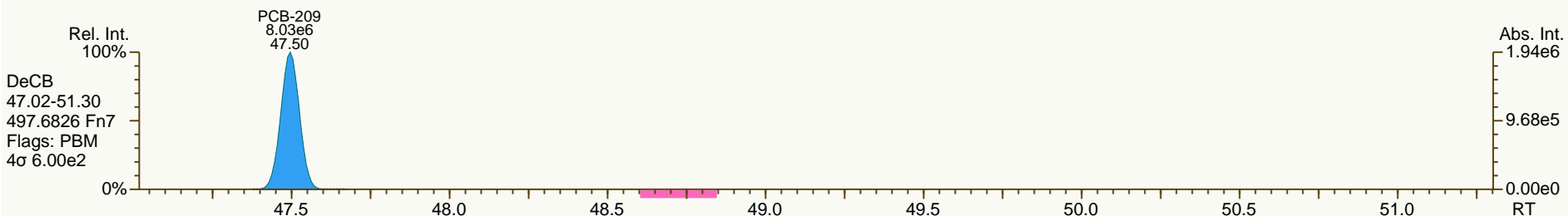
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SGS-AP ID: CS3_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

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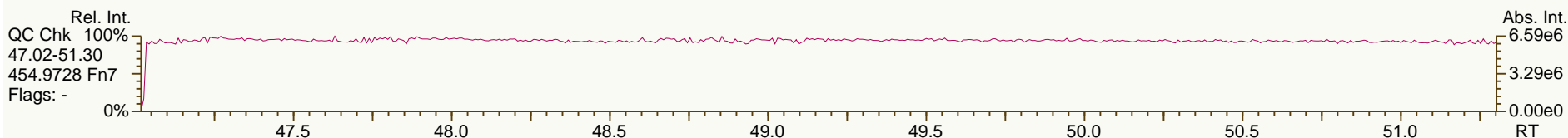
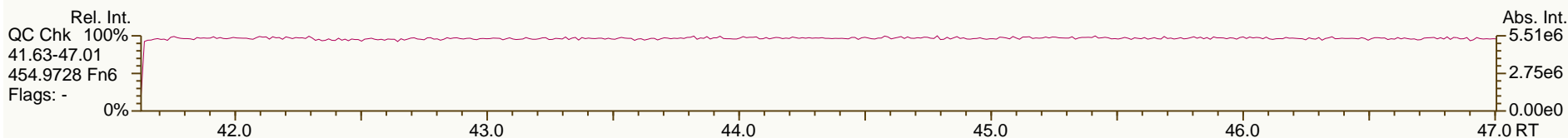
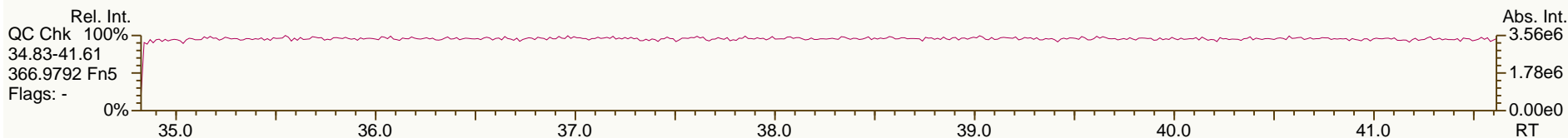
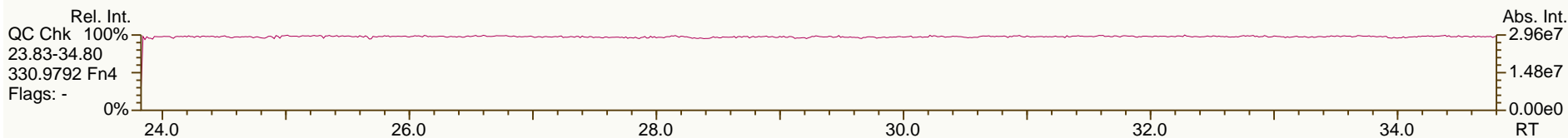
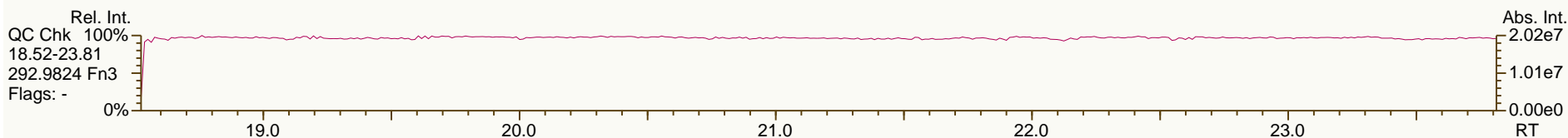
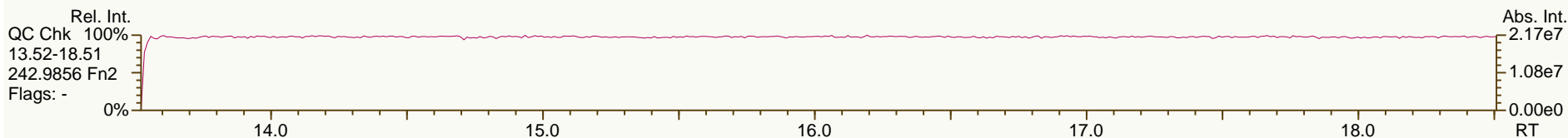
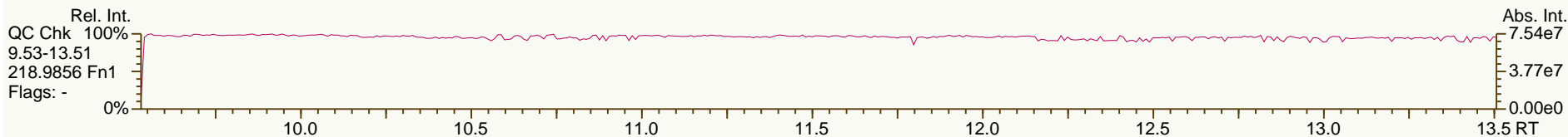
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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

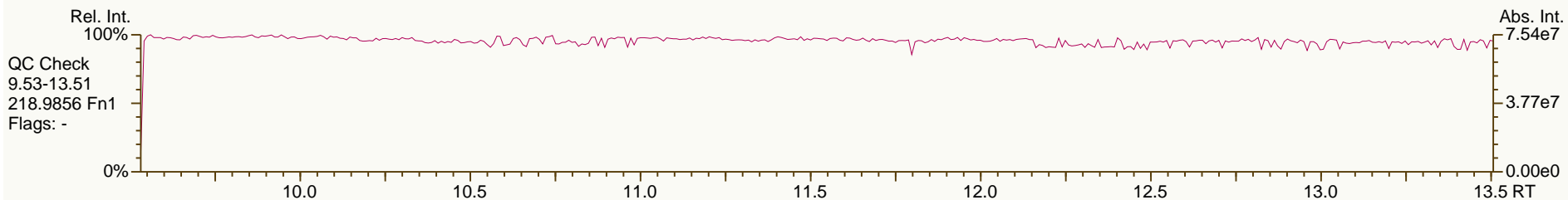
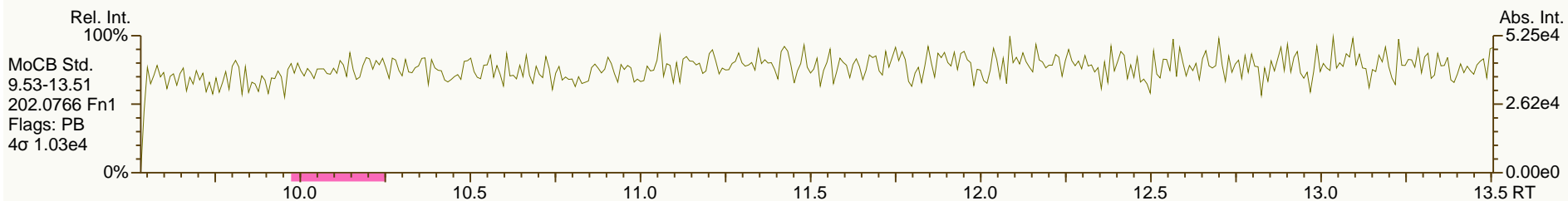
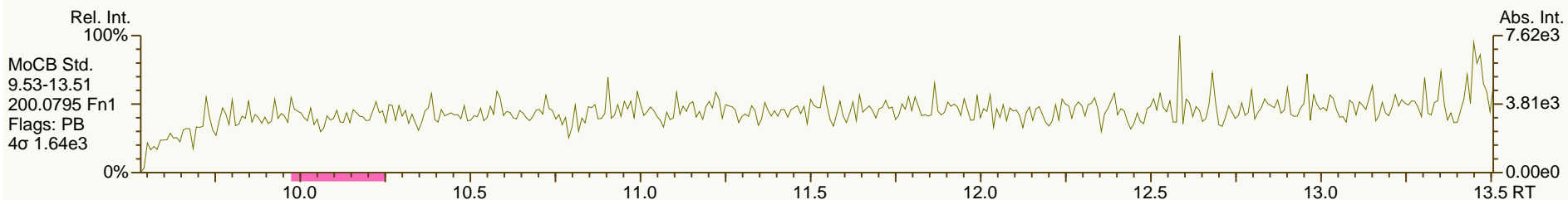
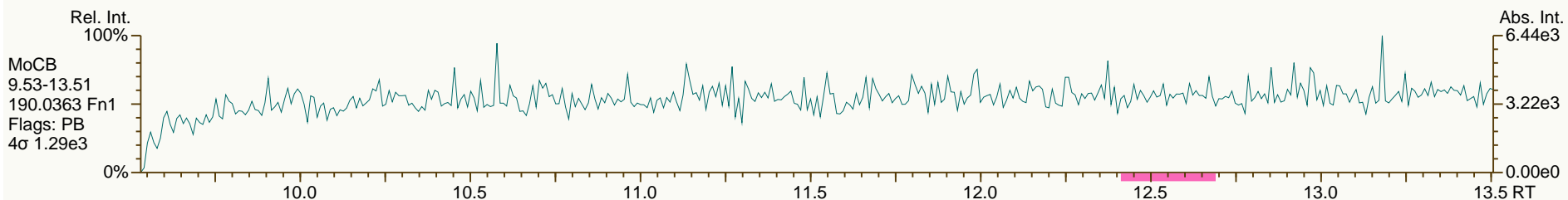
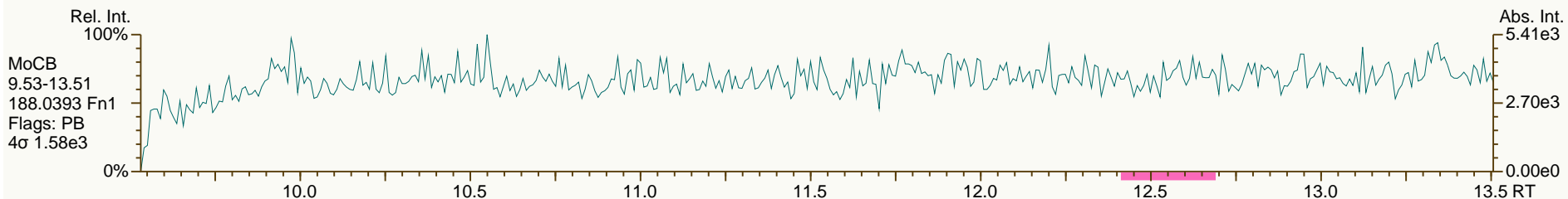
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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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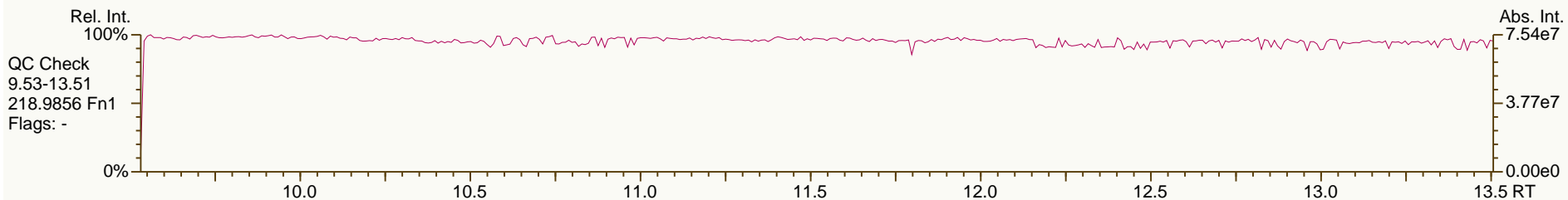
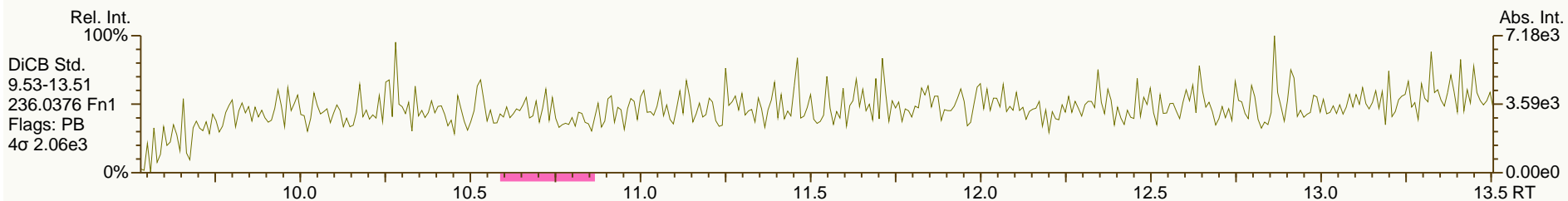
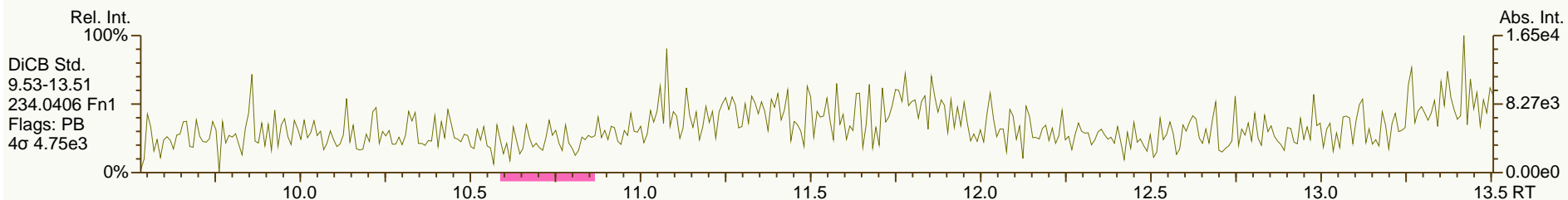
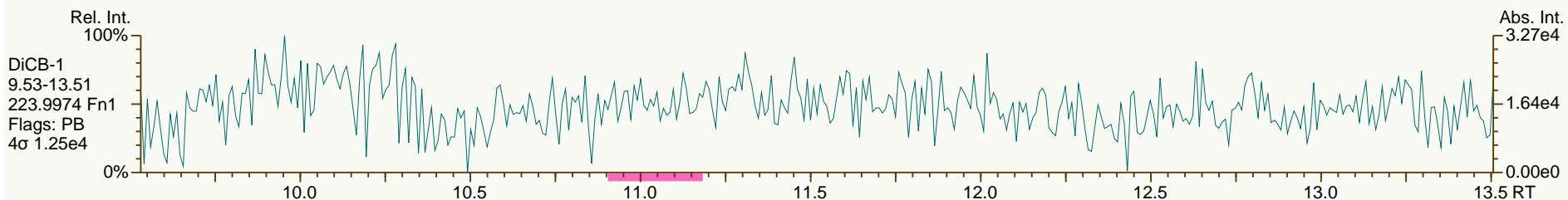
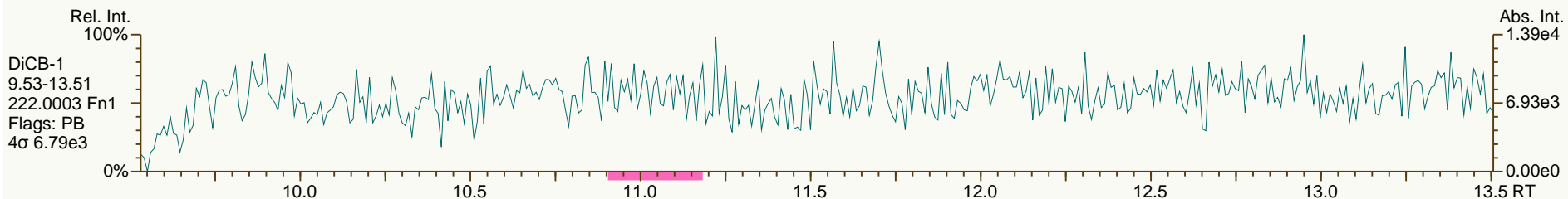
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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

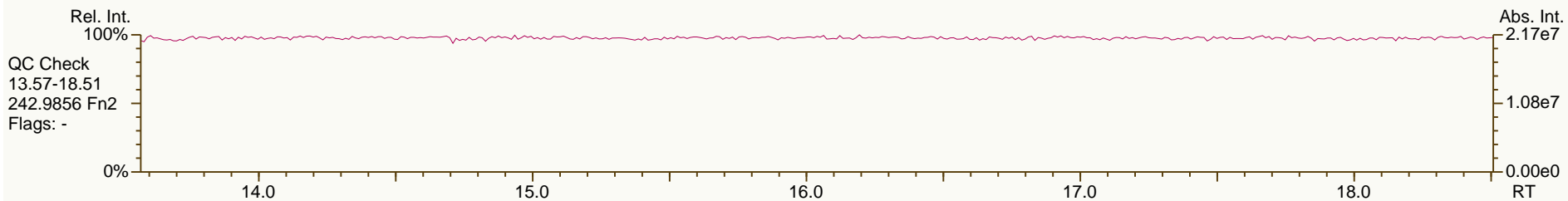
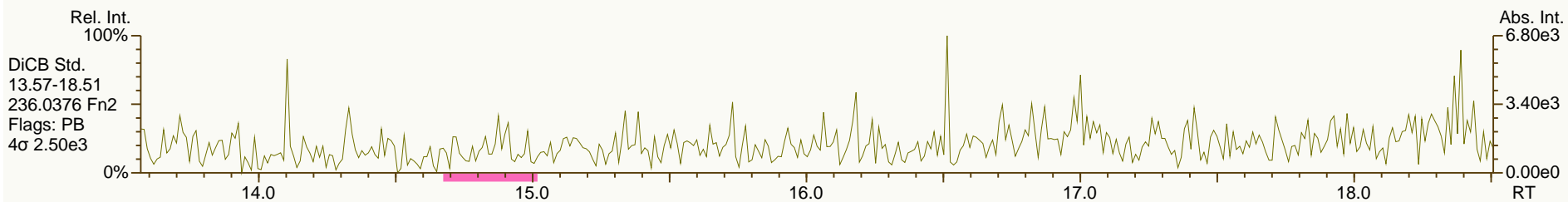
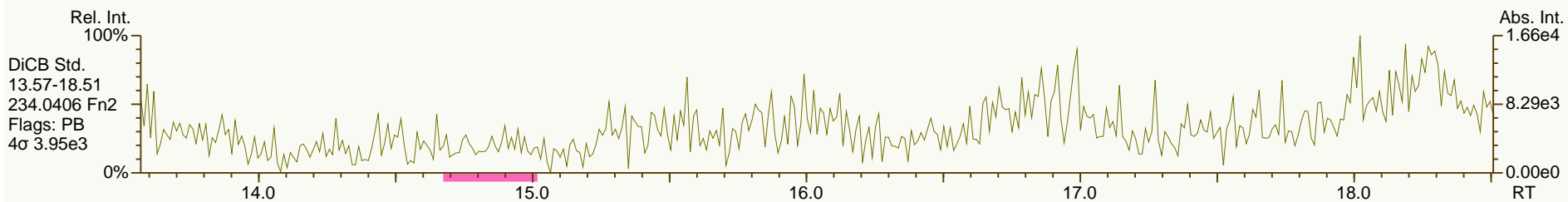
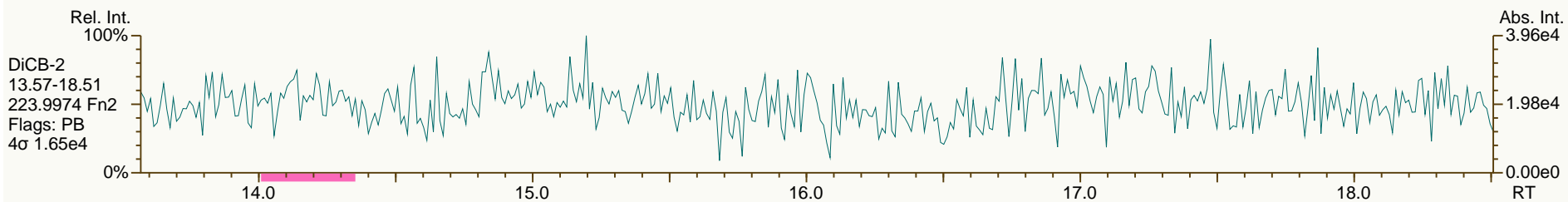
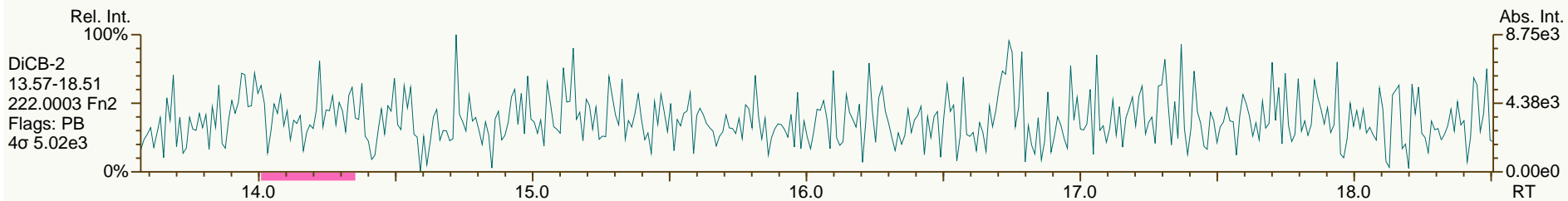
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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

Acq: 03-Oct-2013 00:09:42
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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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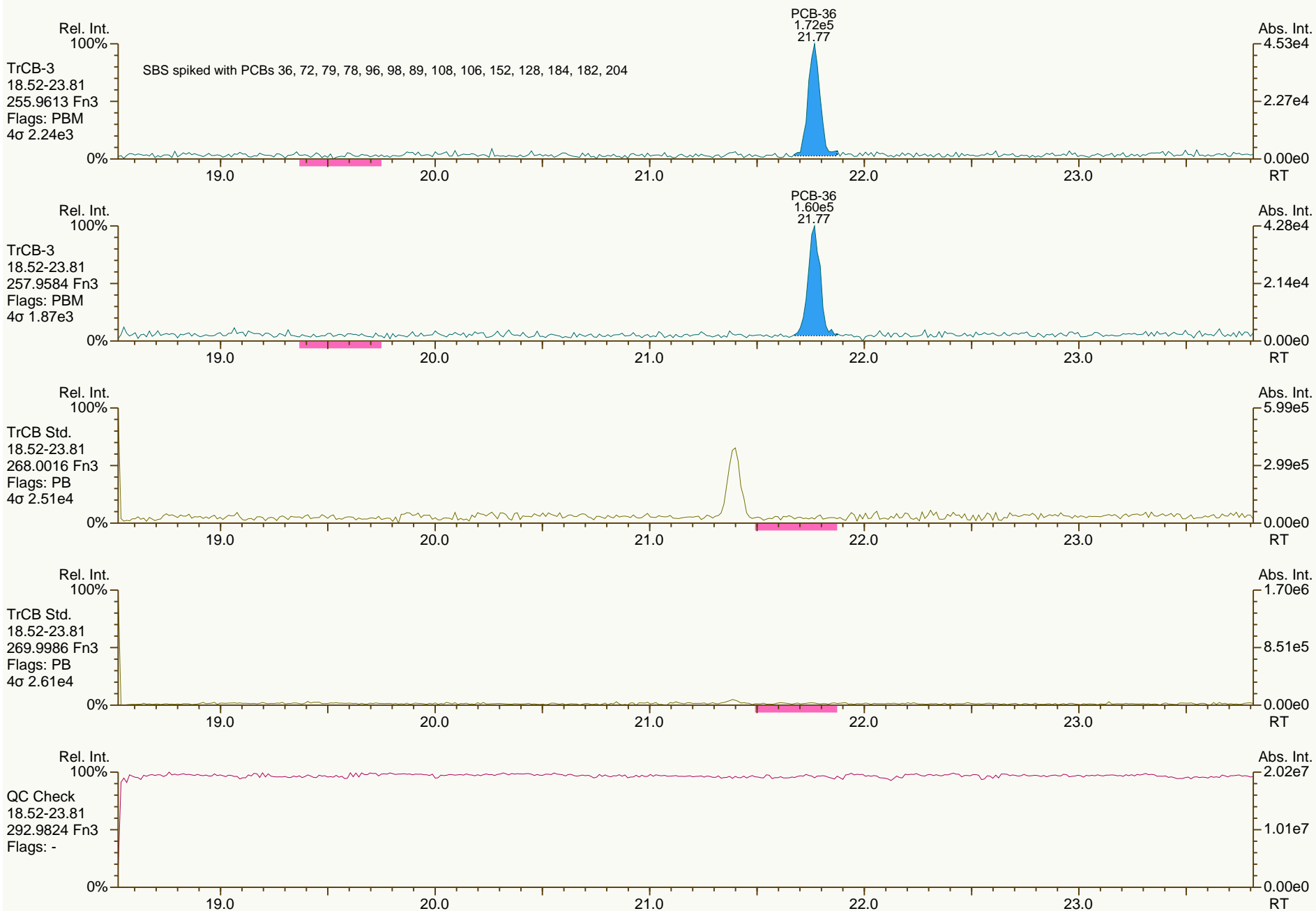
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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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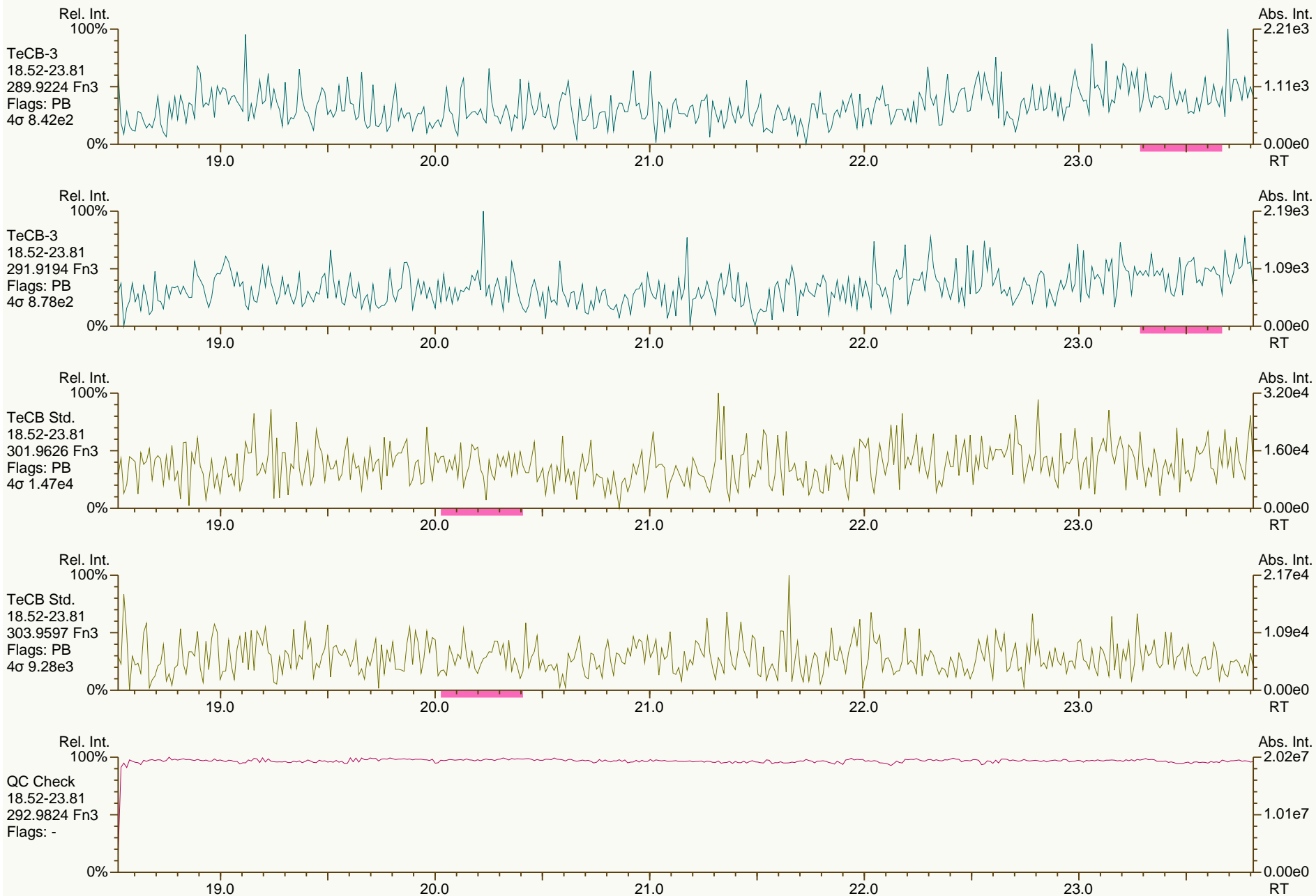
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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

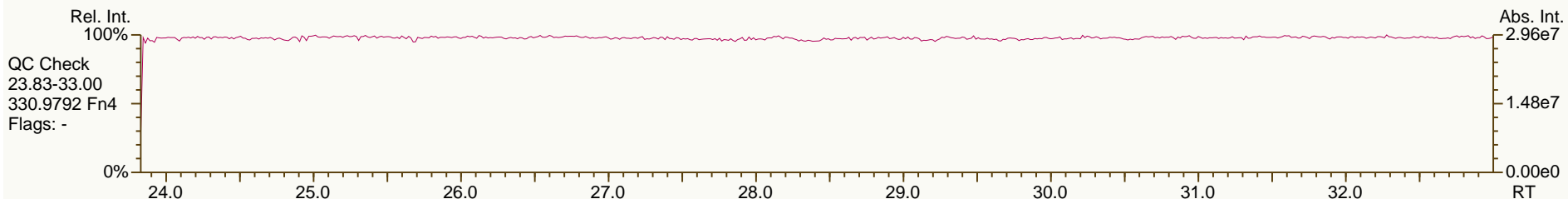
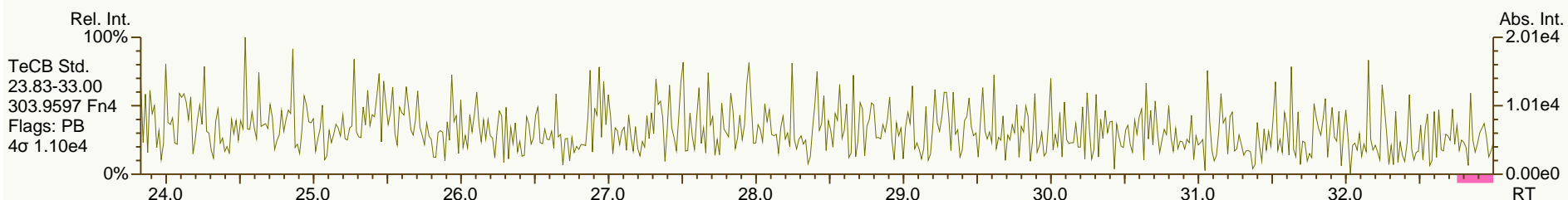
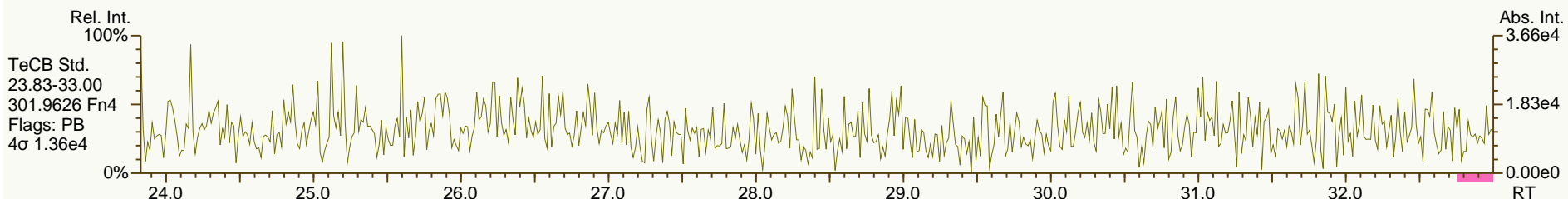
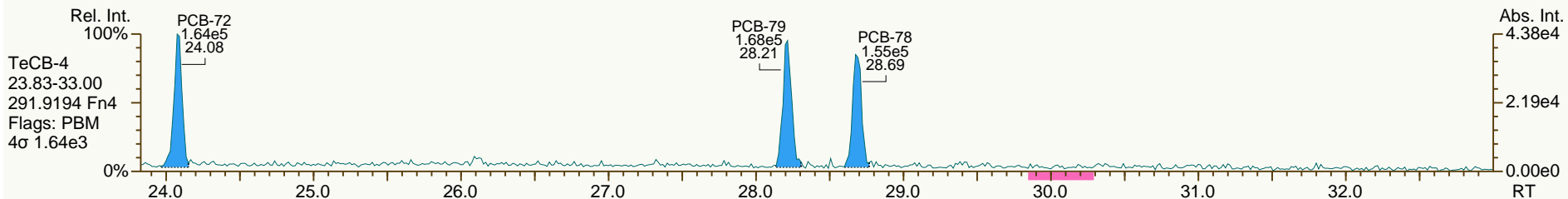
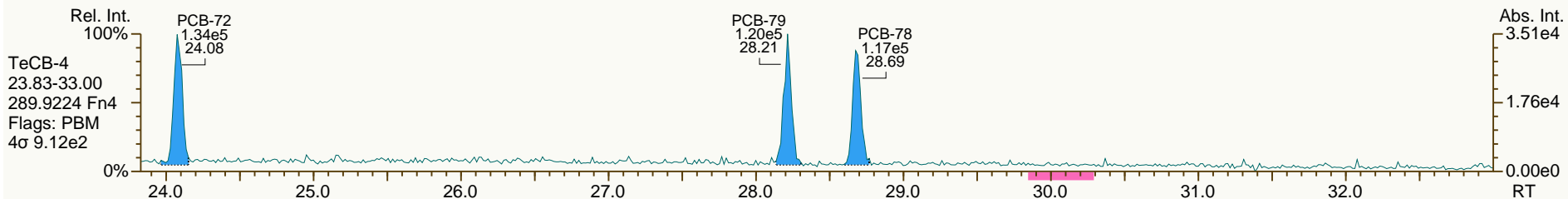
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 User: CTW Datafile: 131002S15



SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

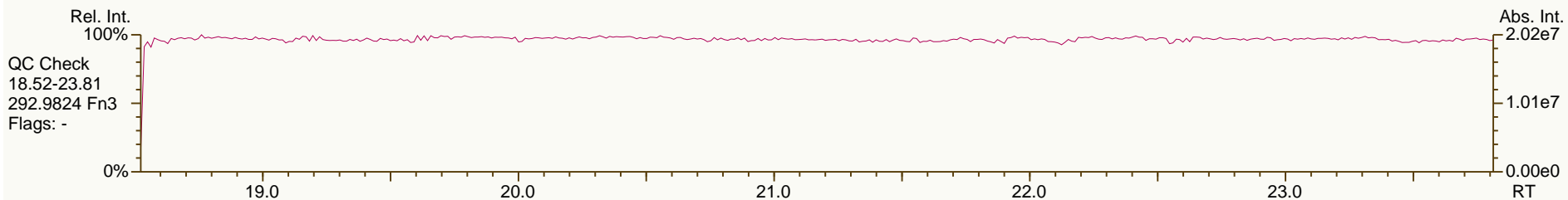
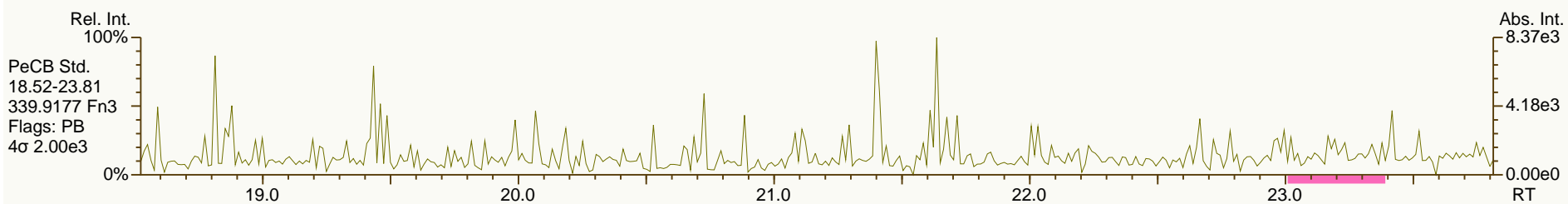
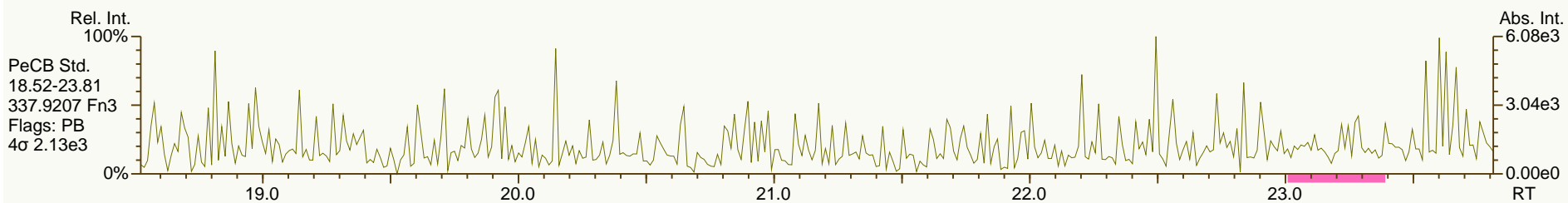
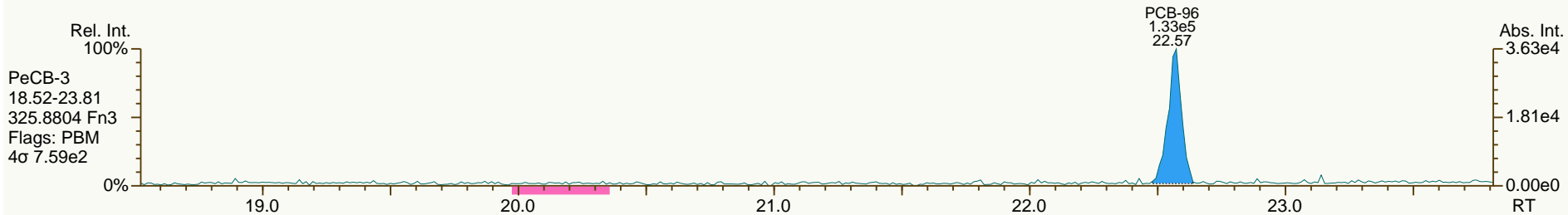
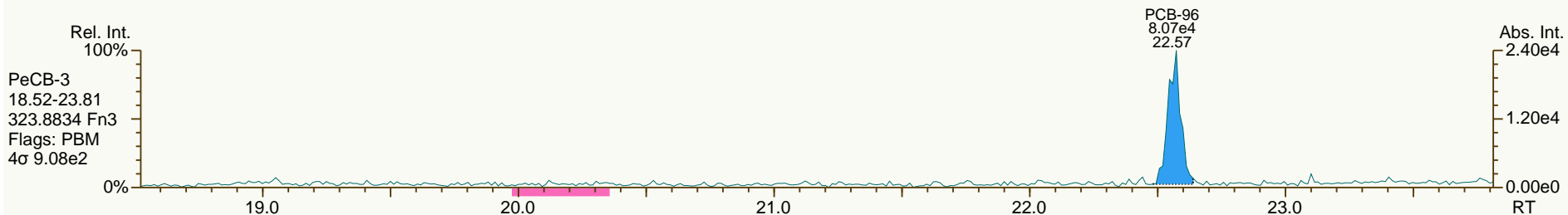
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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

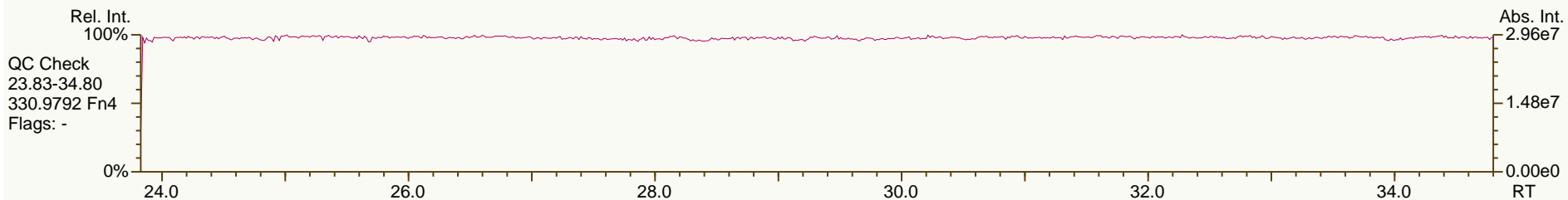
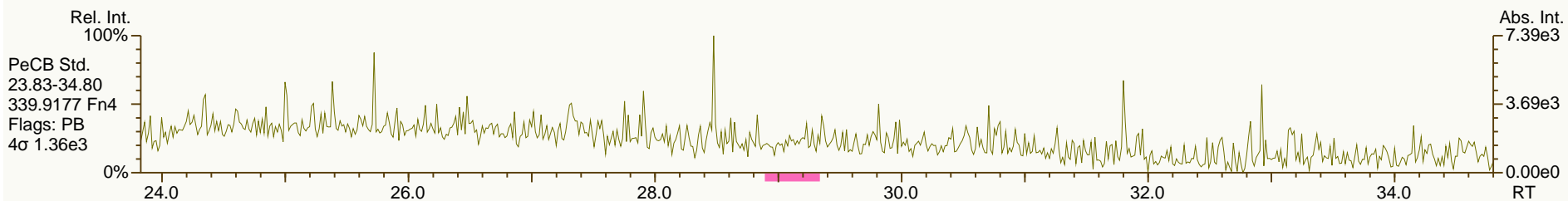
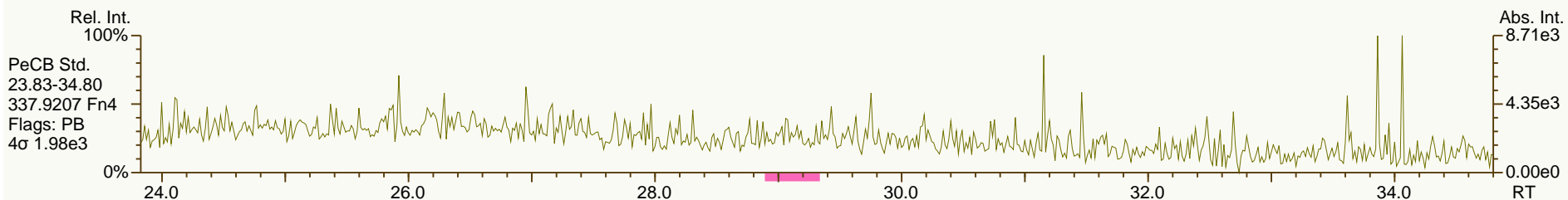
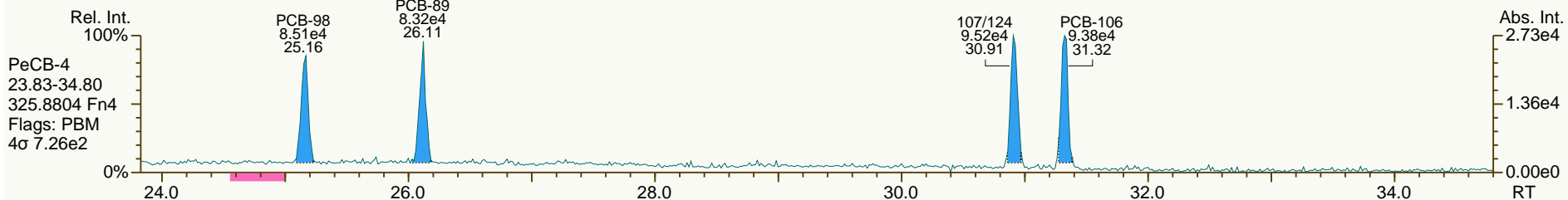
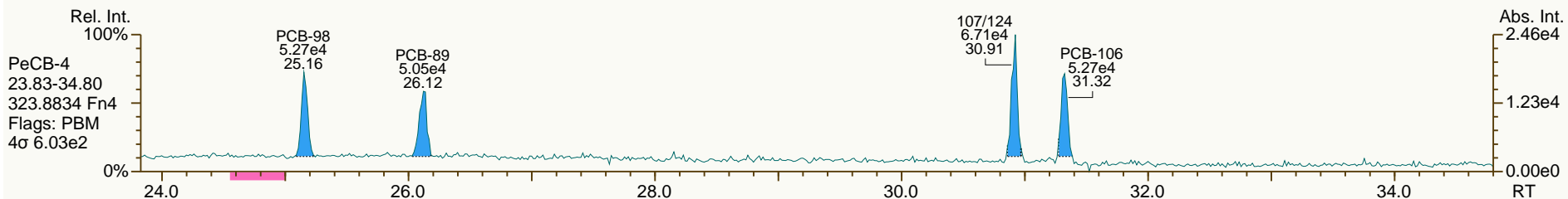
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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

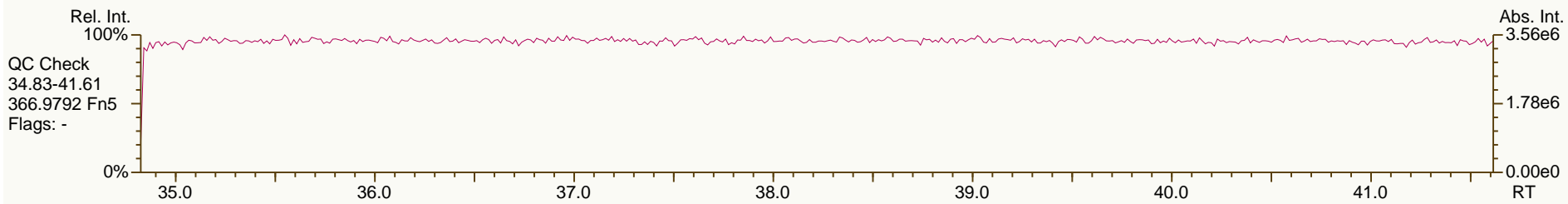
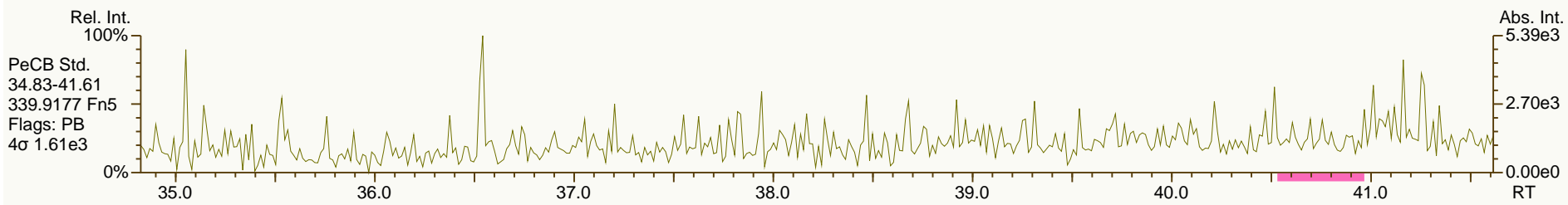
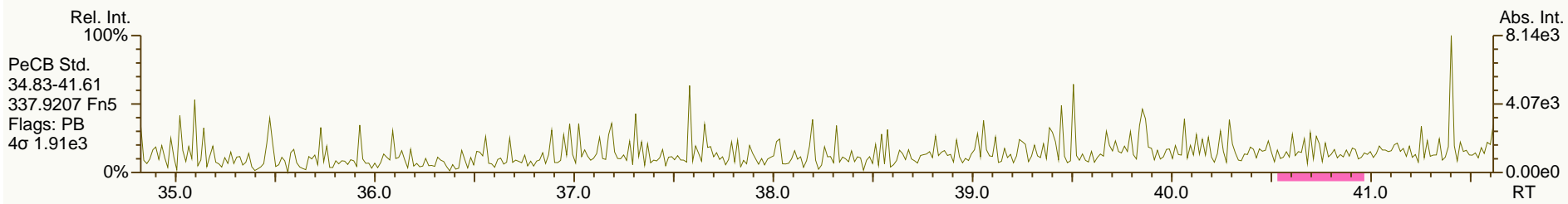
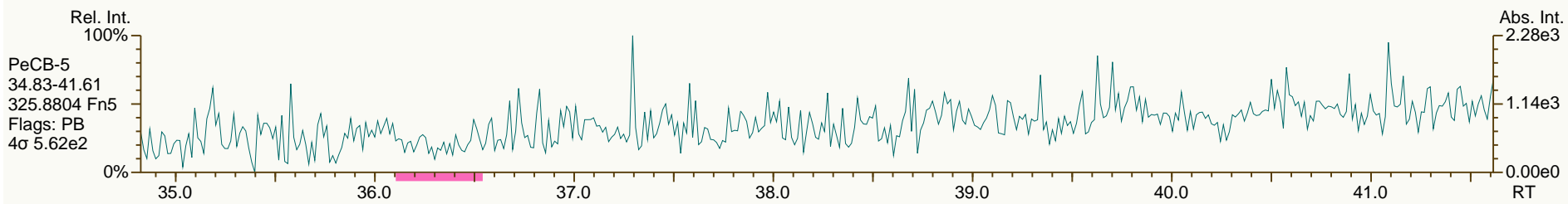
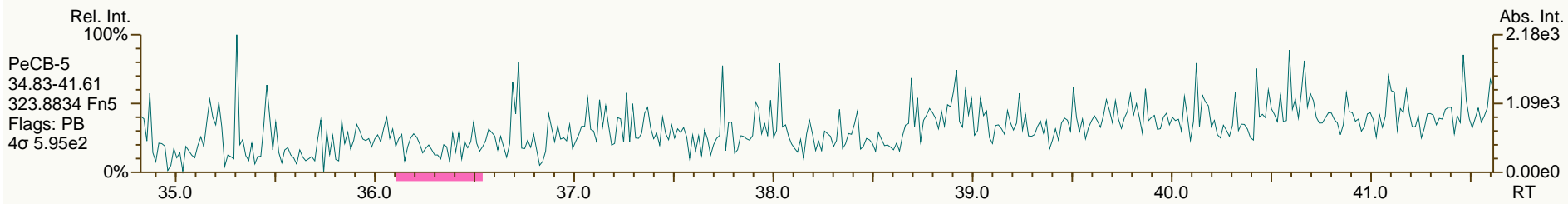
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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

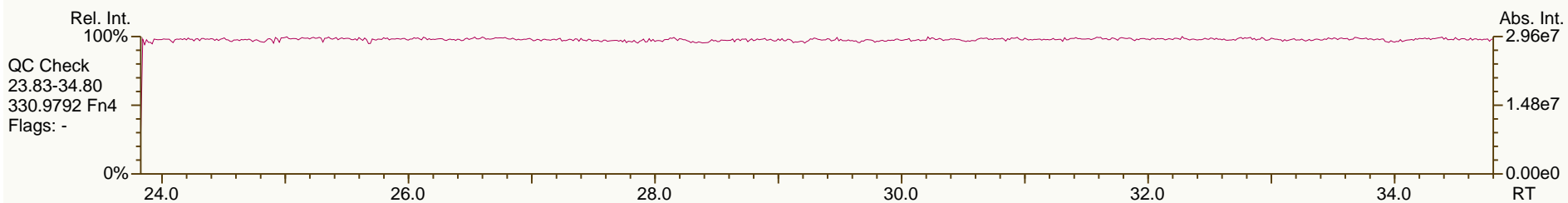
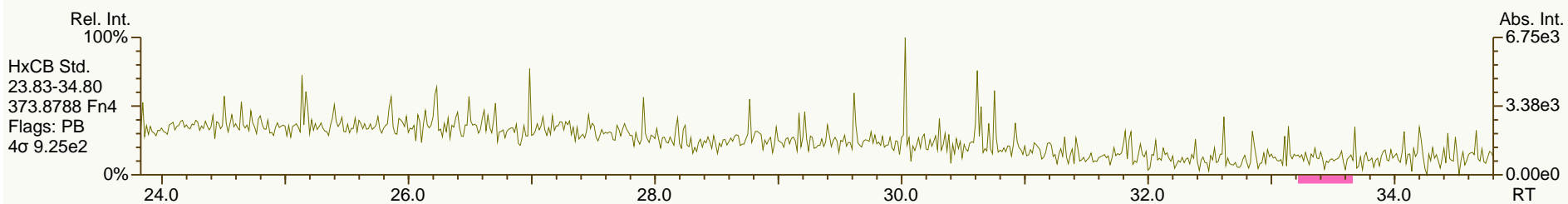
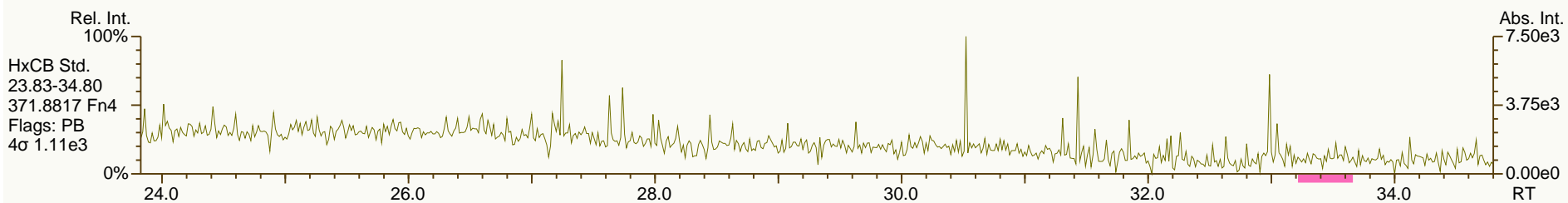
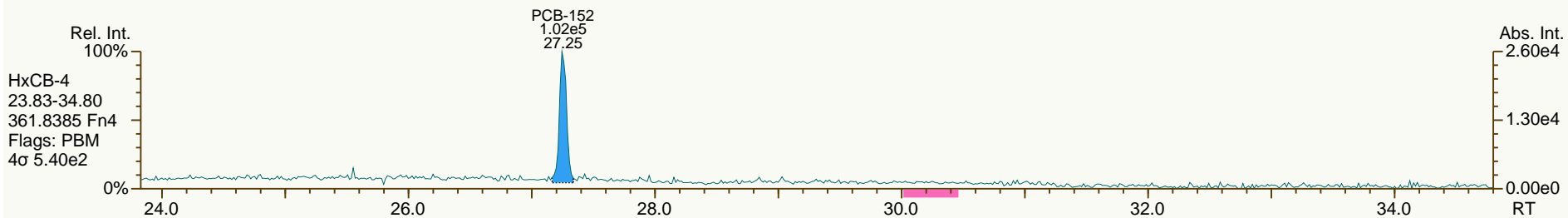
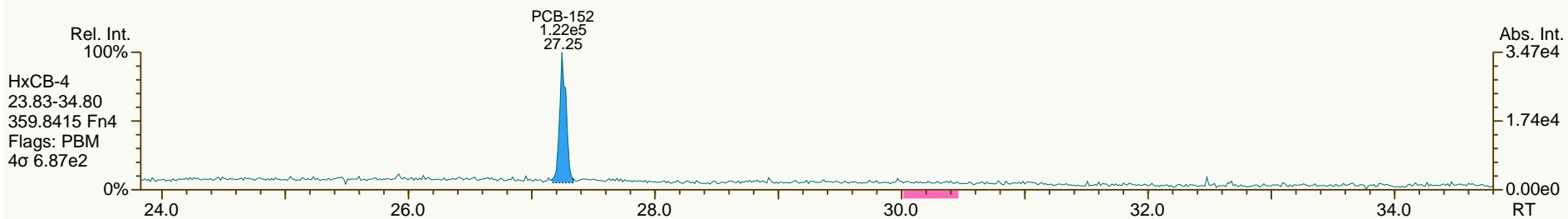
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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

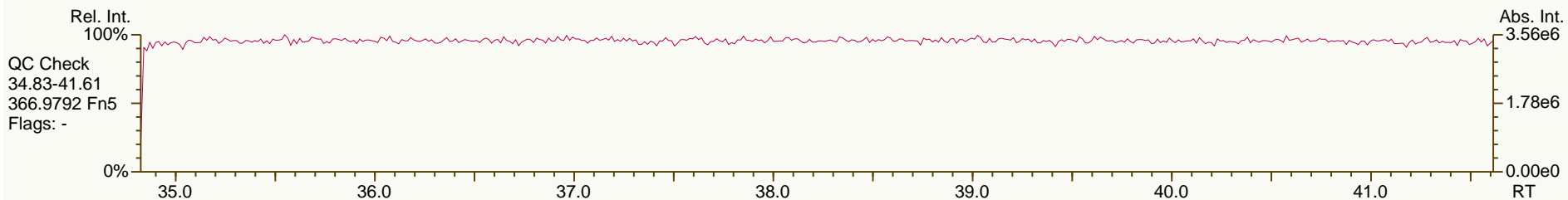
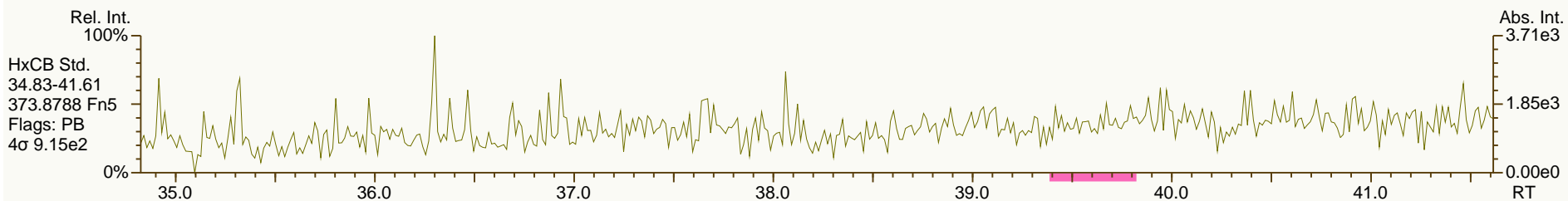
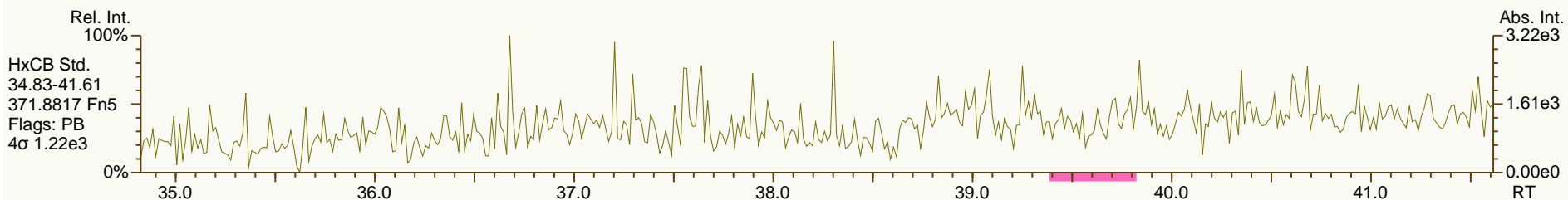
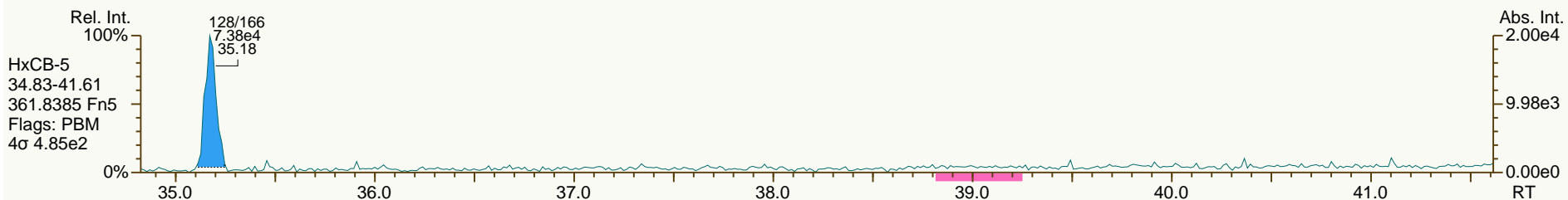
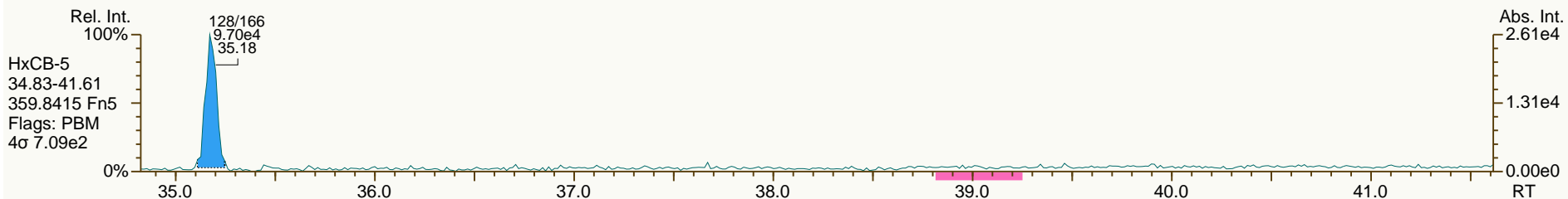
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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

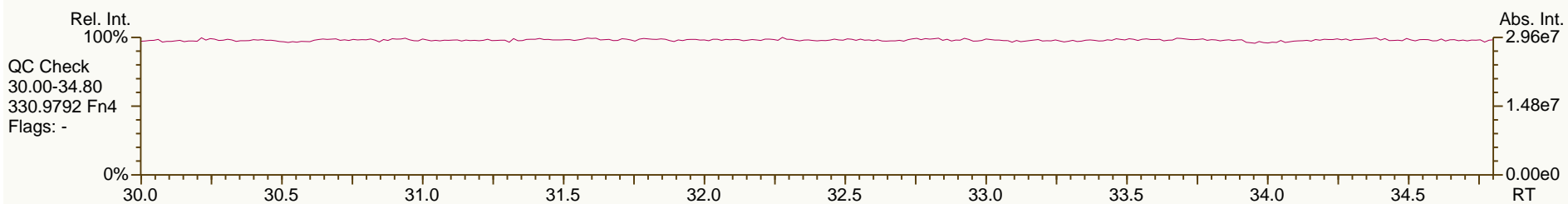
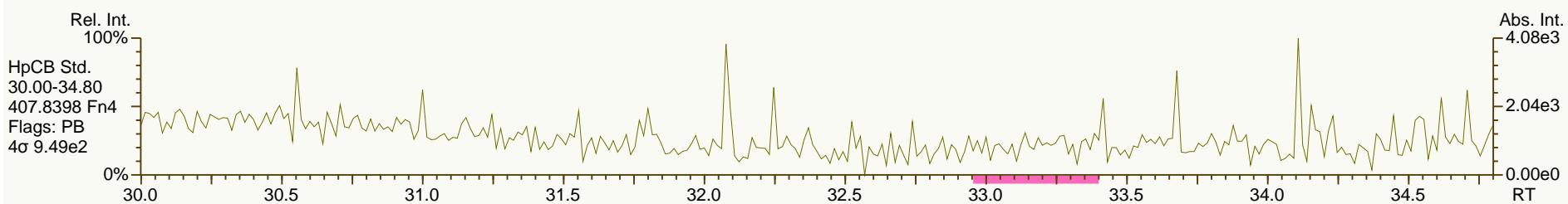
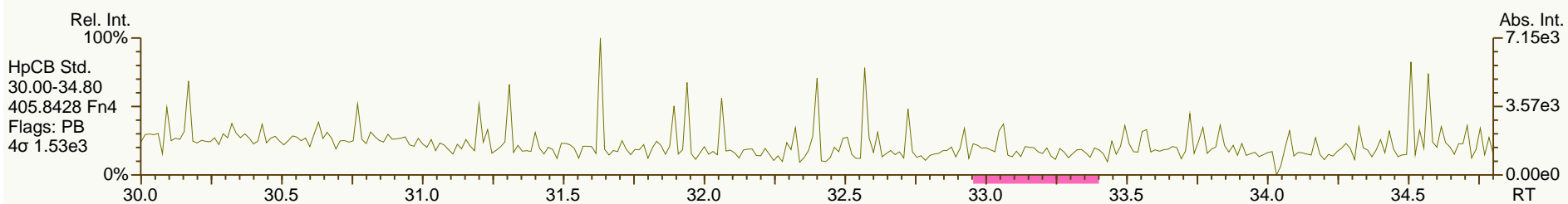
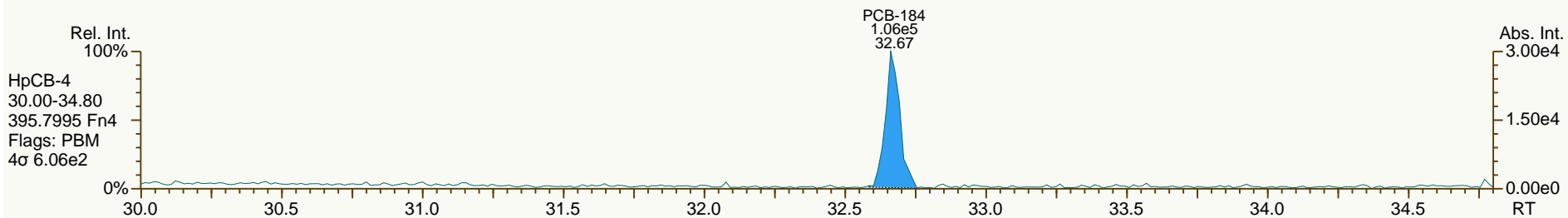
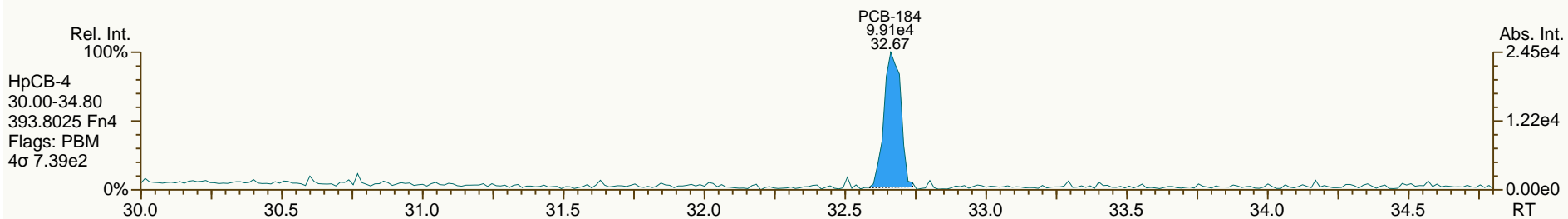
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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

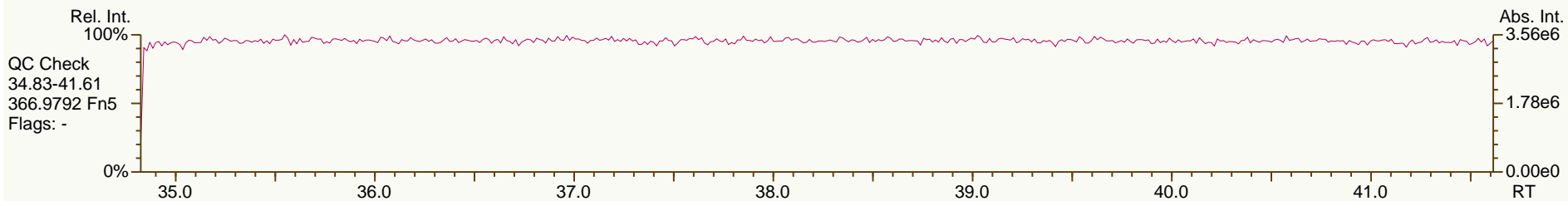
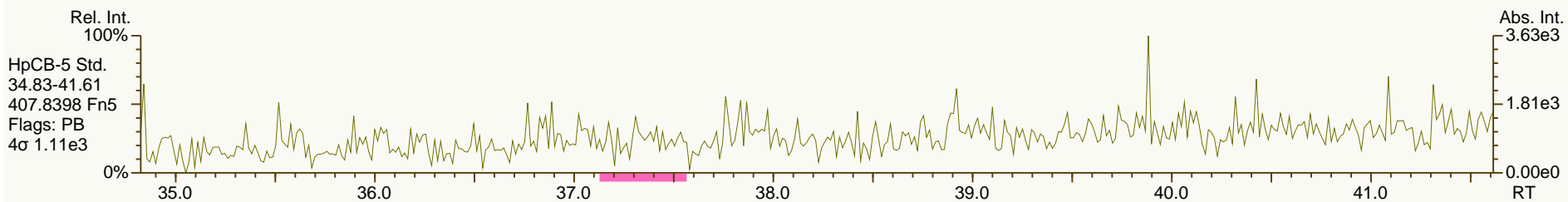
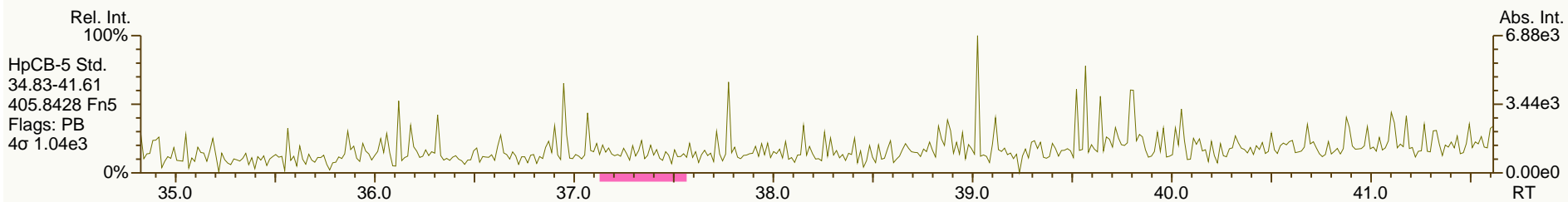
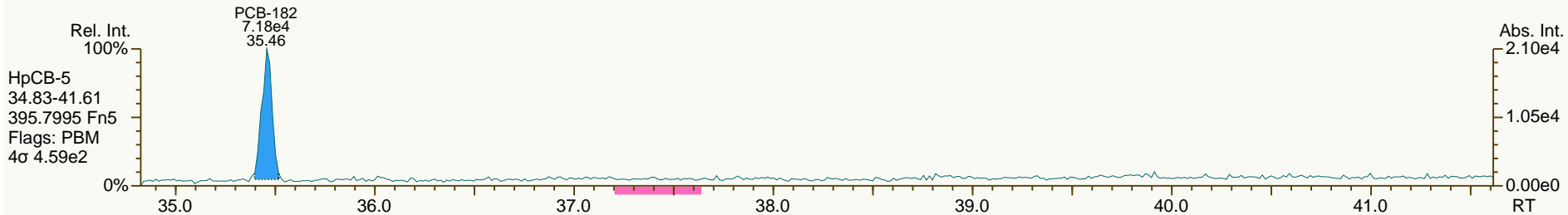
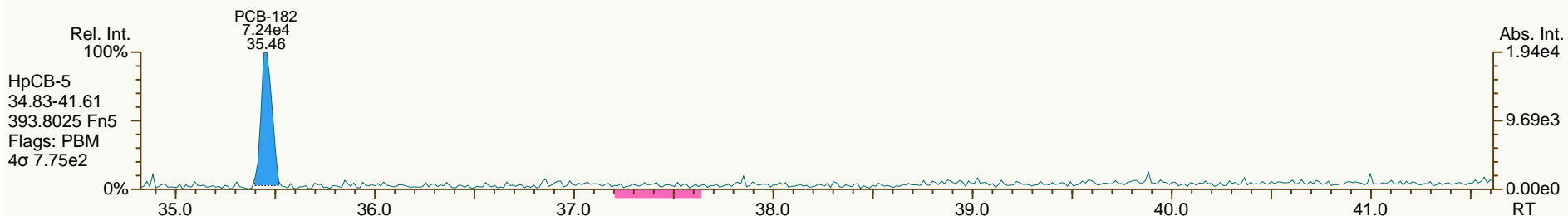
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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

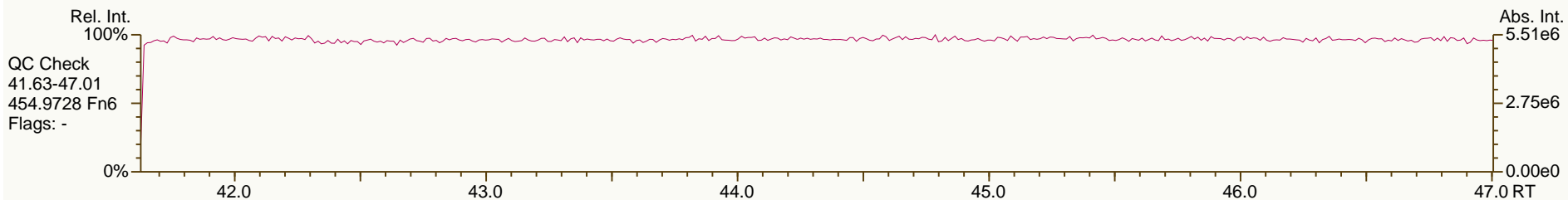
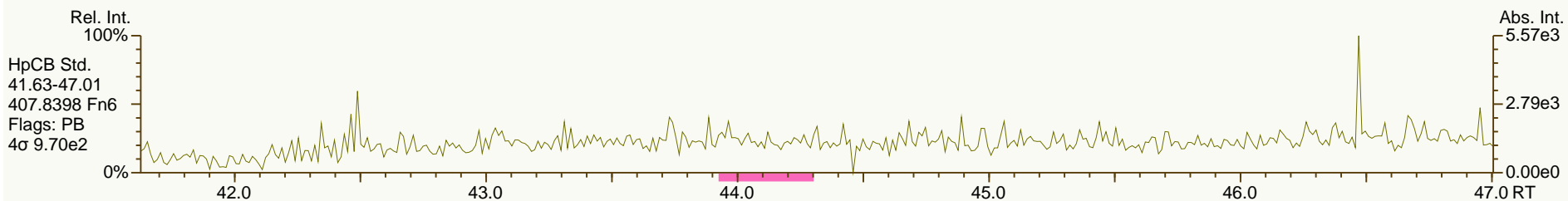
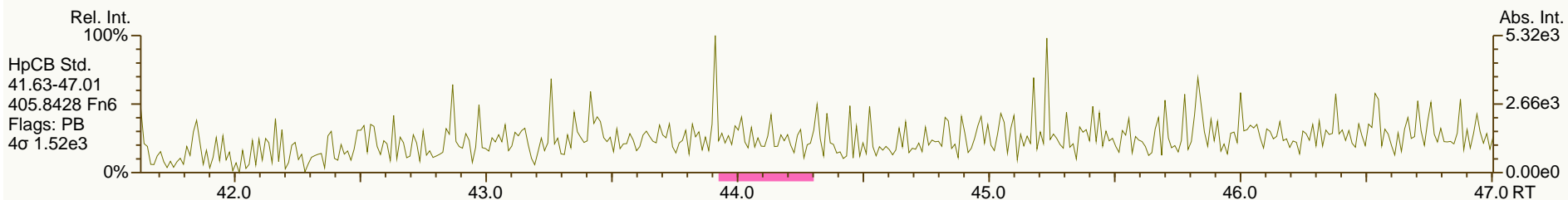
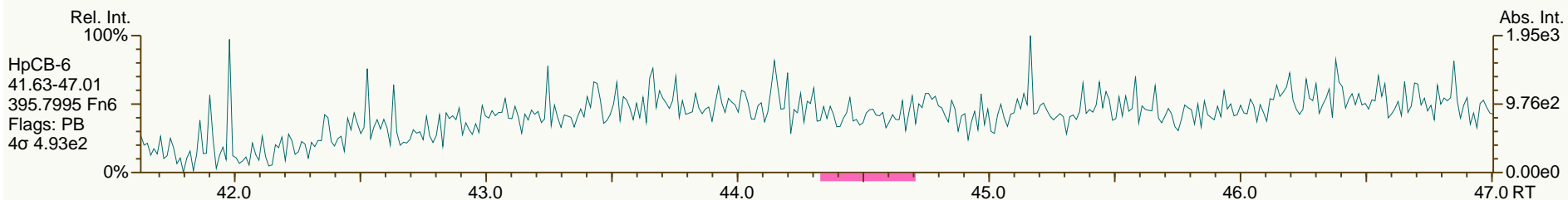
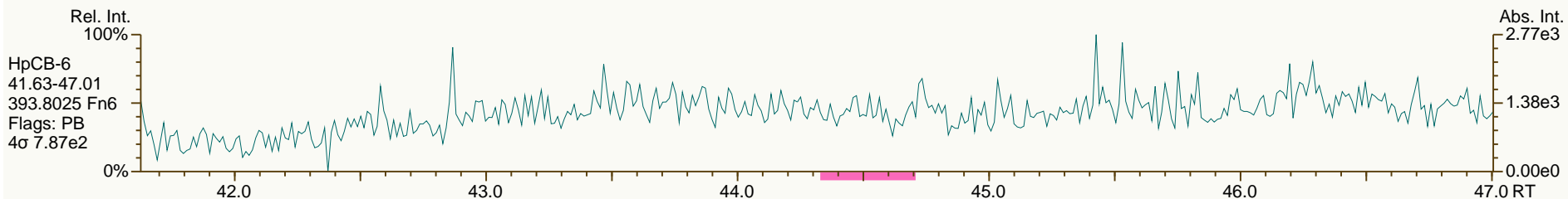
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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

Acq: 03-Oct-2013 00:09:42
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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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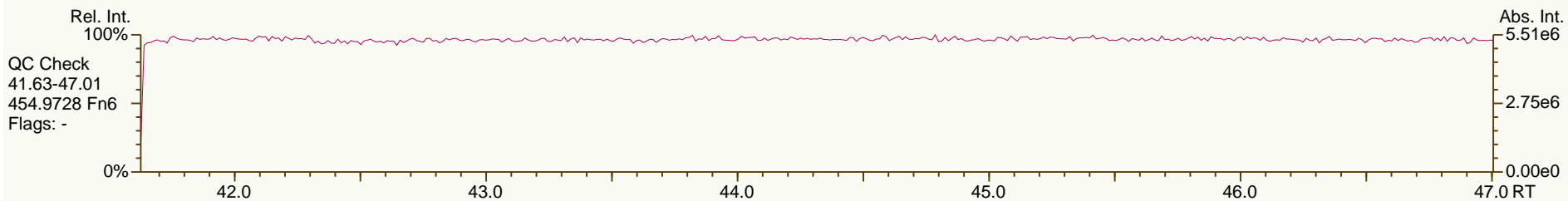
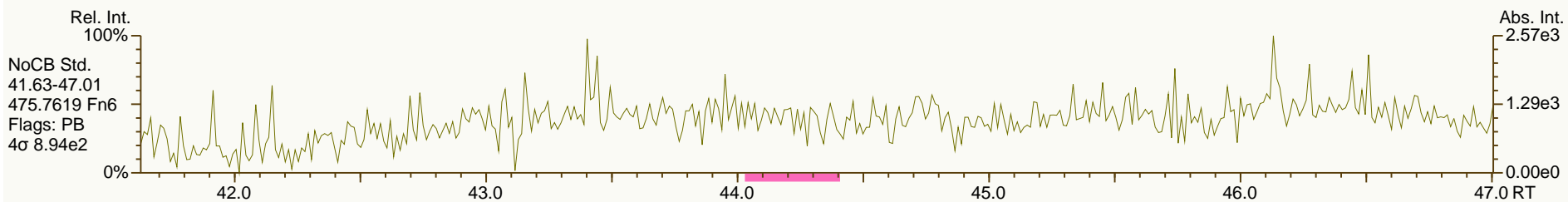
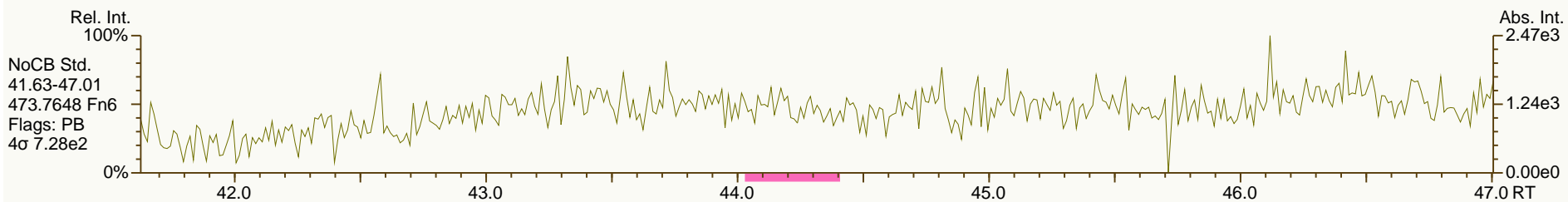
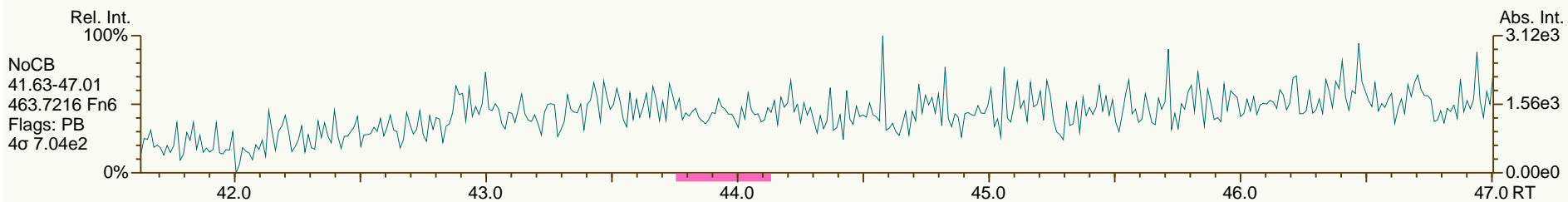
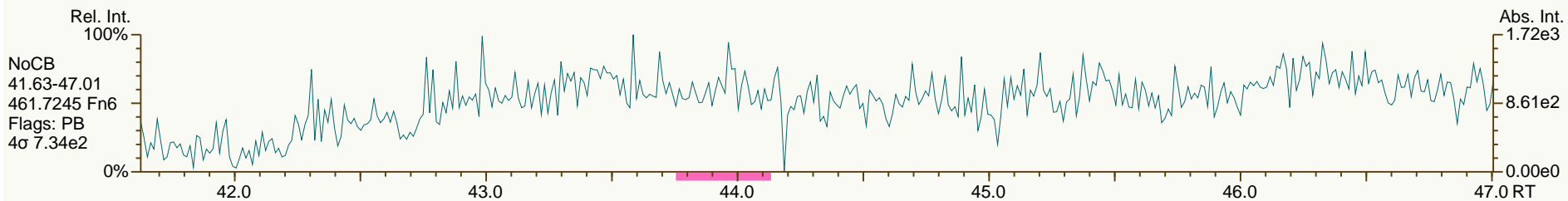
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SGS-AP ID: SBS_131002_PCB_SC
Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

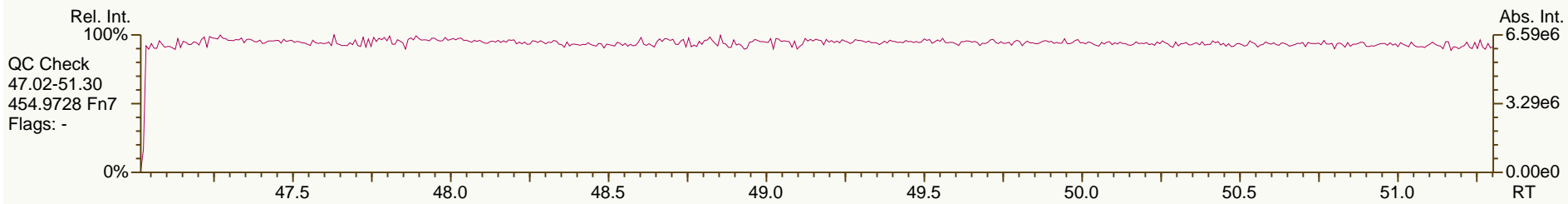
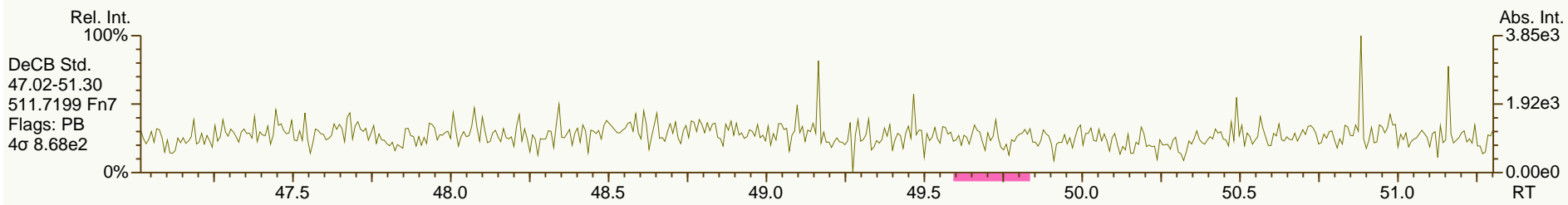
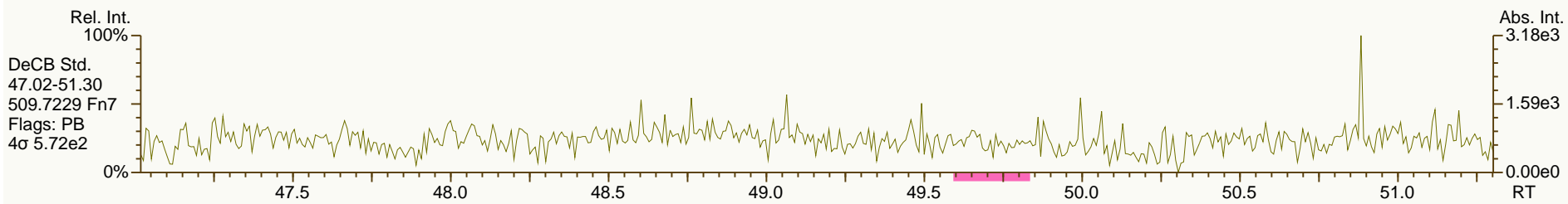
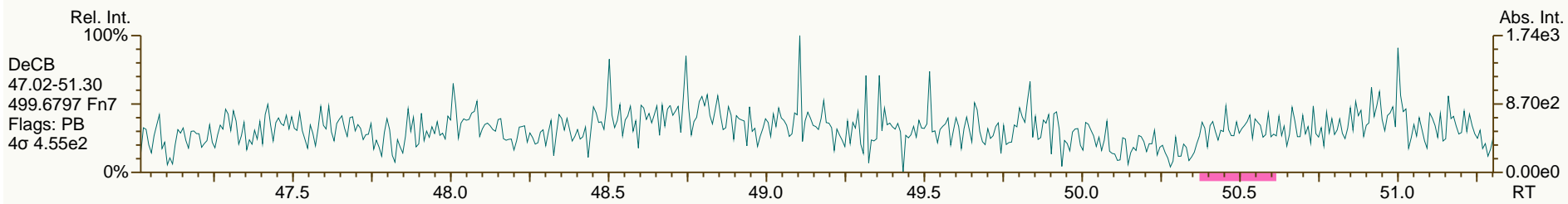
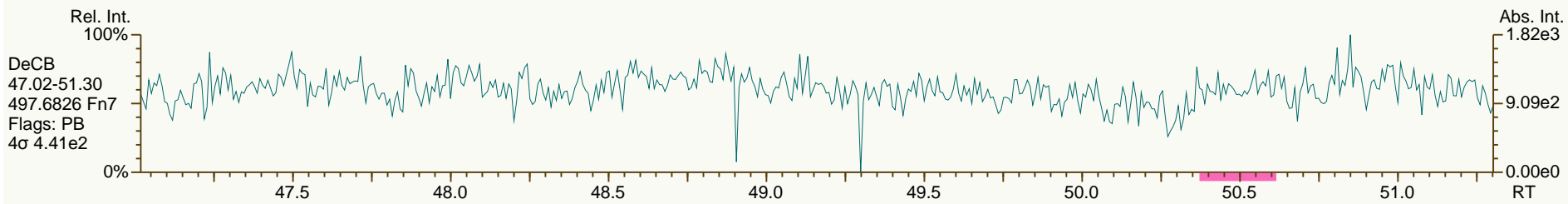
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SGS-AP ID: SBS_131002_PCB_SC
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

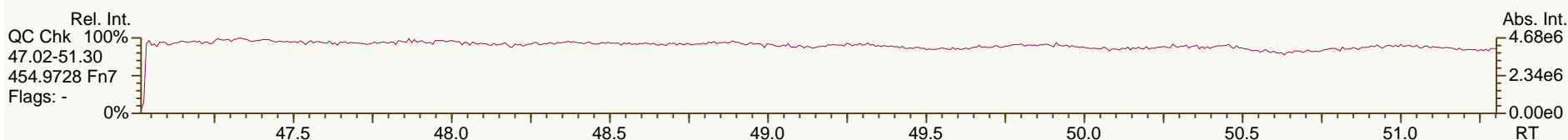
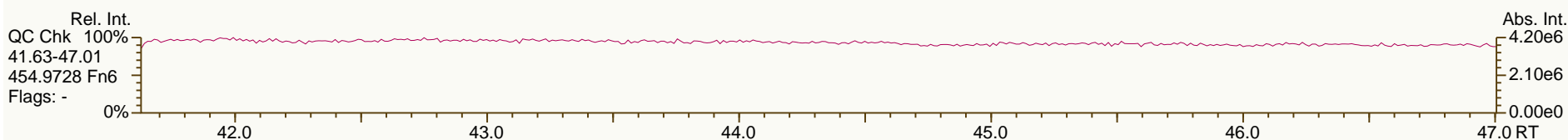
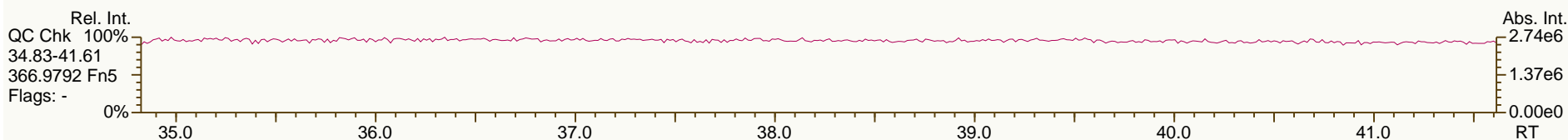
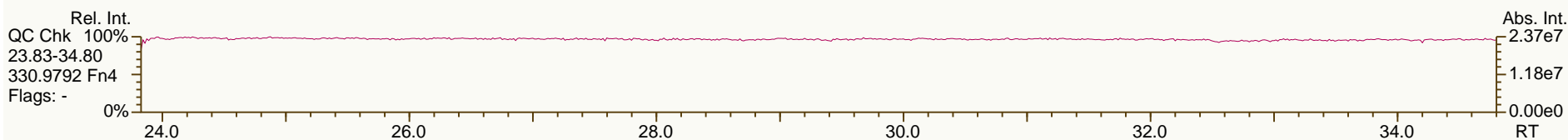
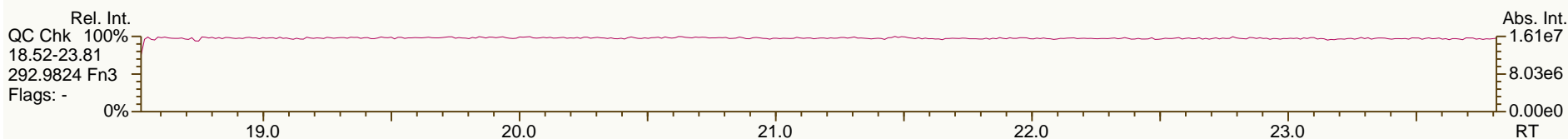
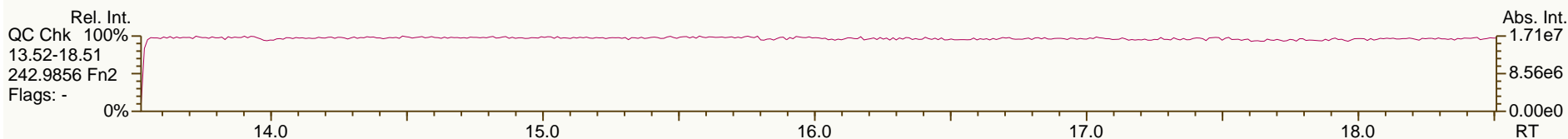
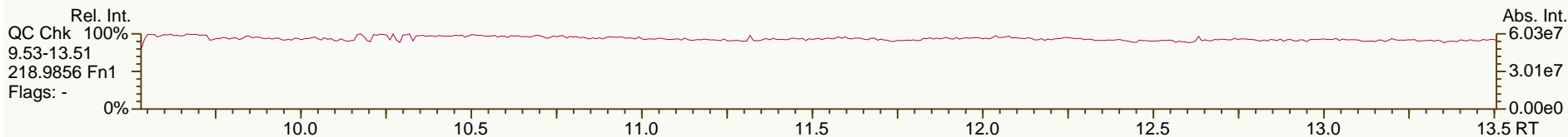
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SGS-AP ID: SBS_131002_PCB_SD
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

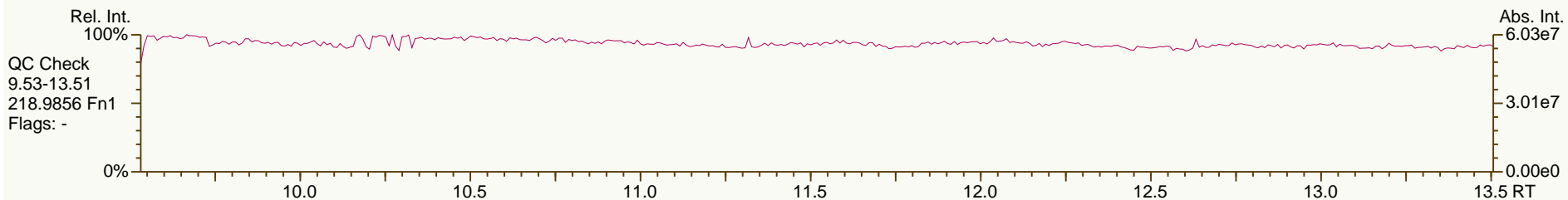
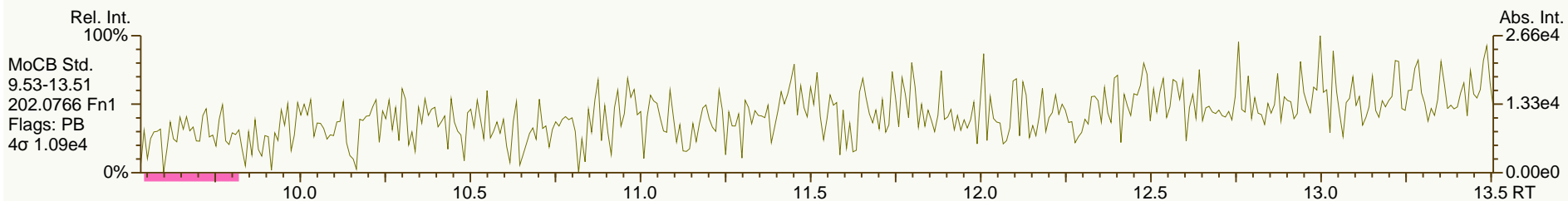
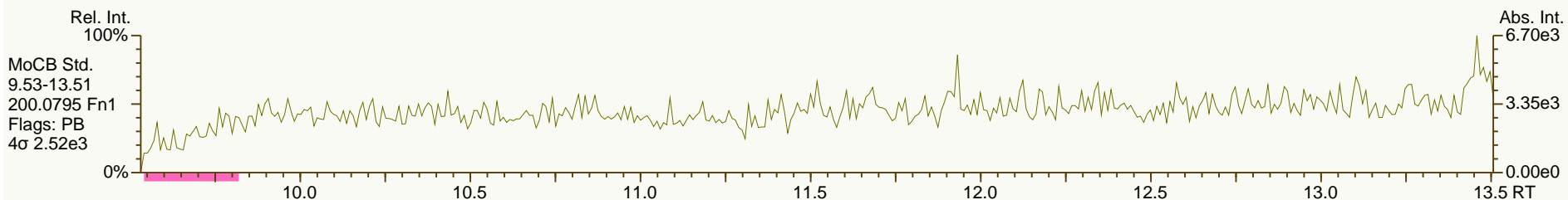
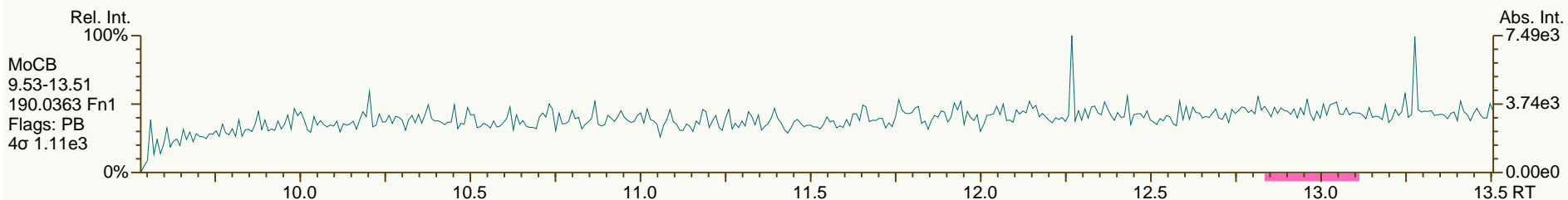
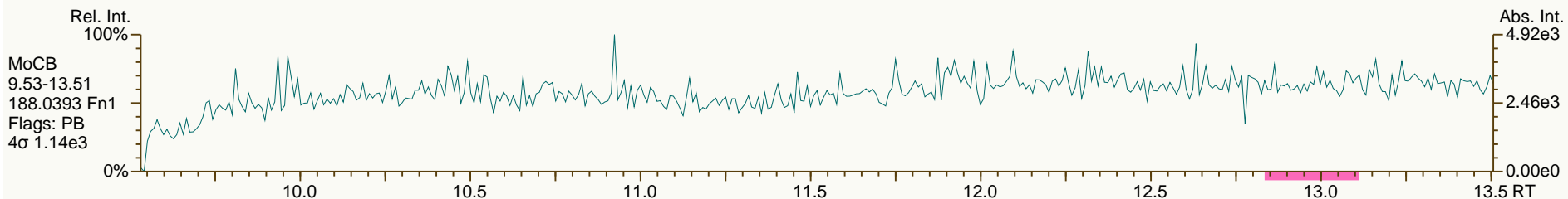
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SGS-AP ID: SBS_131002_PCB_SD
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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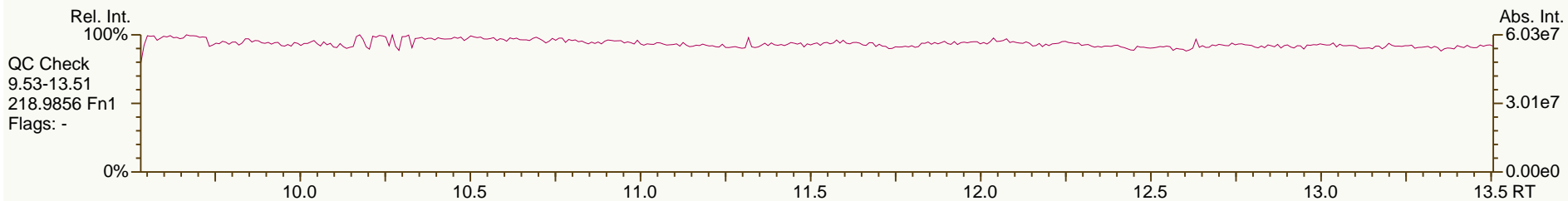
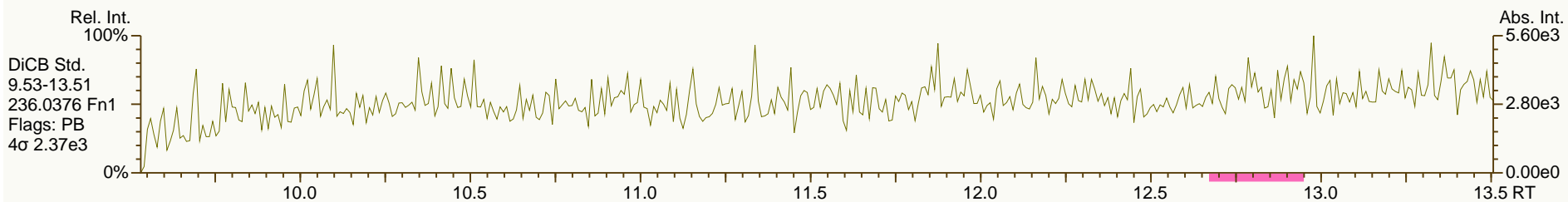
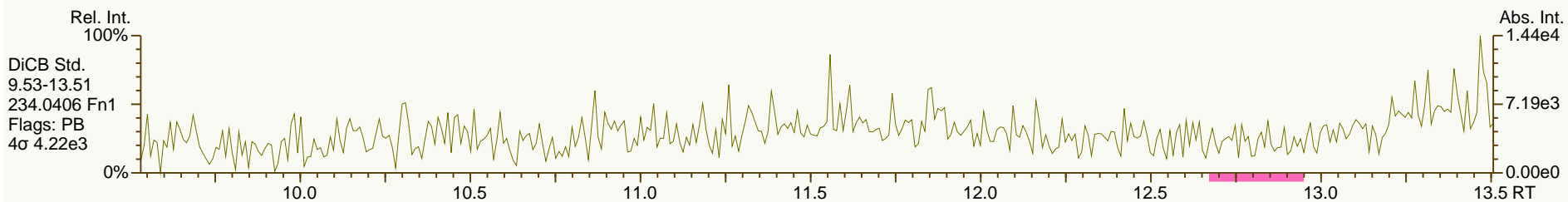
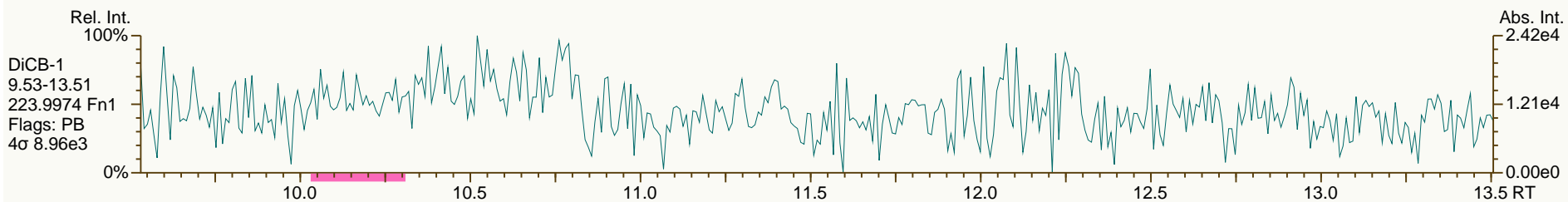
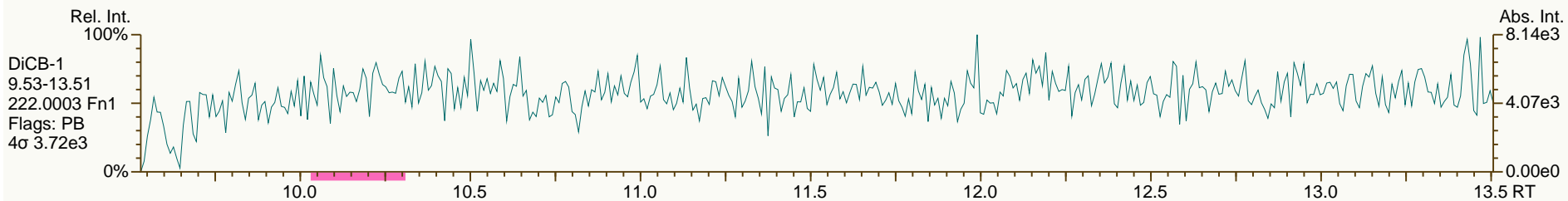
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SGS-AP ID: SBS_131002_PCB_SD
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

Acq: 03-Oct-2013 03:53:46
 User: CTW Datafile: 131002S19



SGS-AP ID: SBS_131002_PCB_SD
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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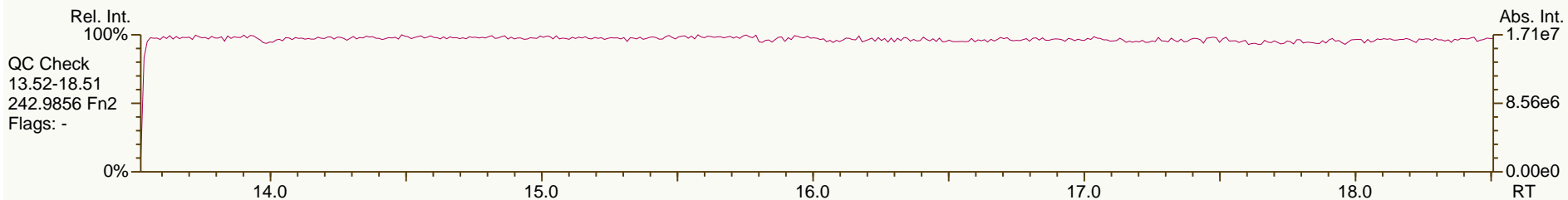
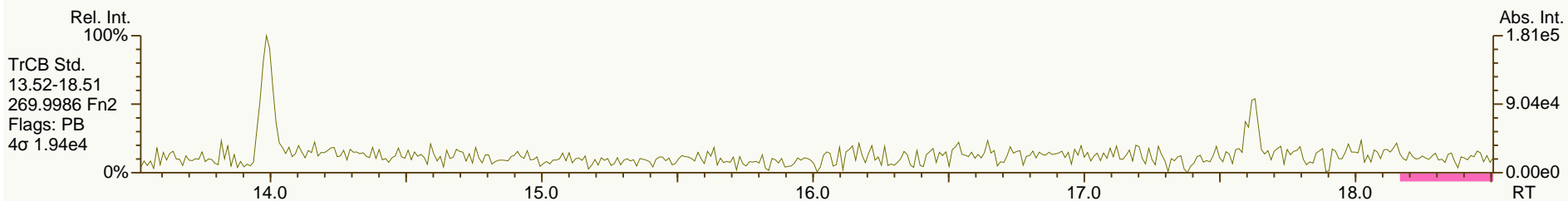
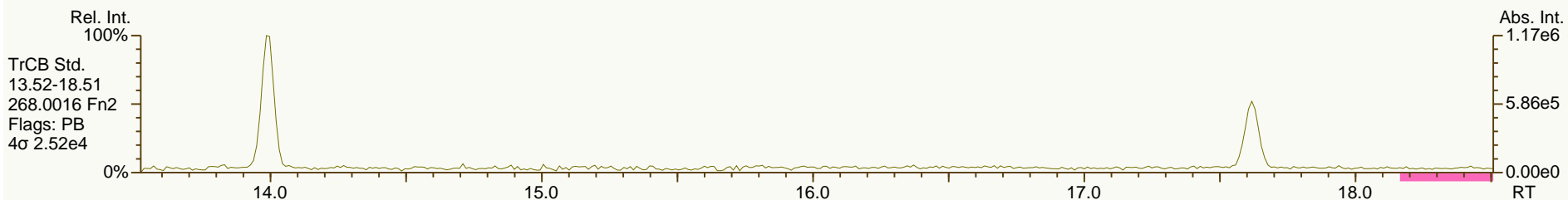
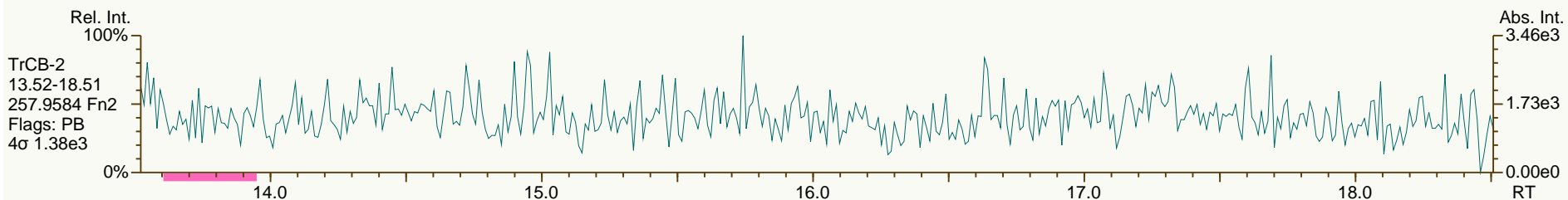
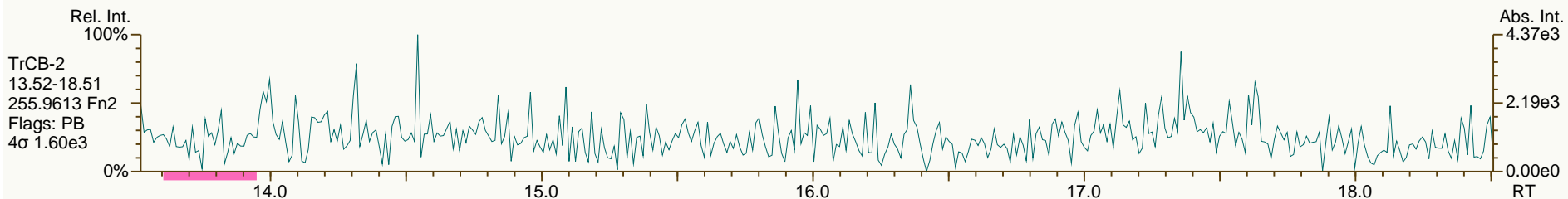
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SGS-AP ID: SBS_131002_PCB_SD
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

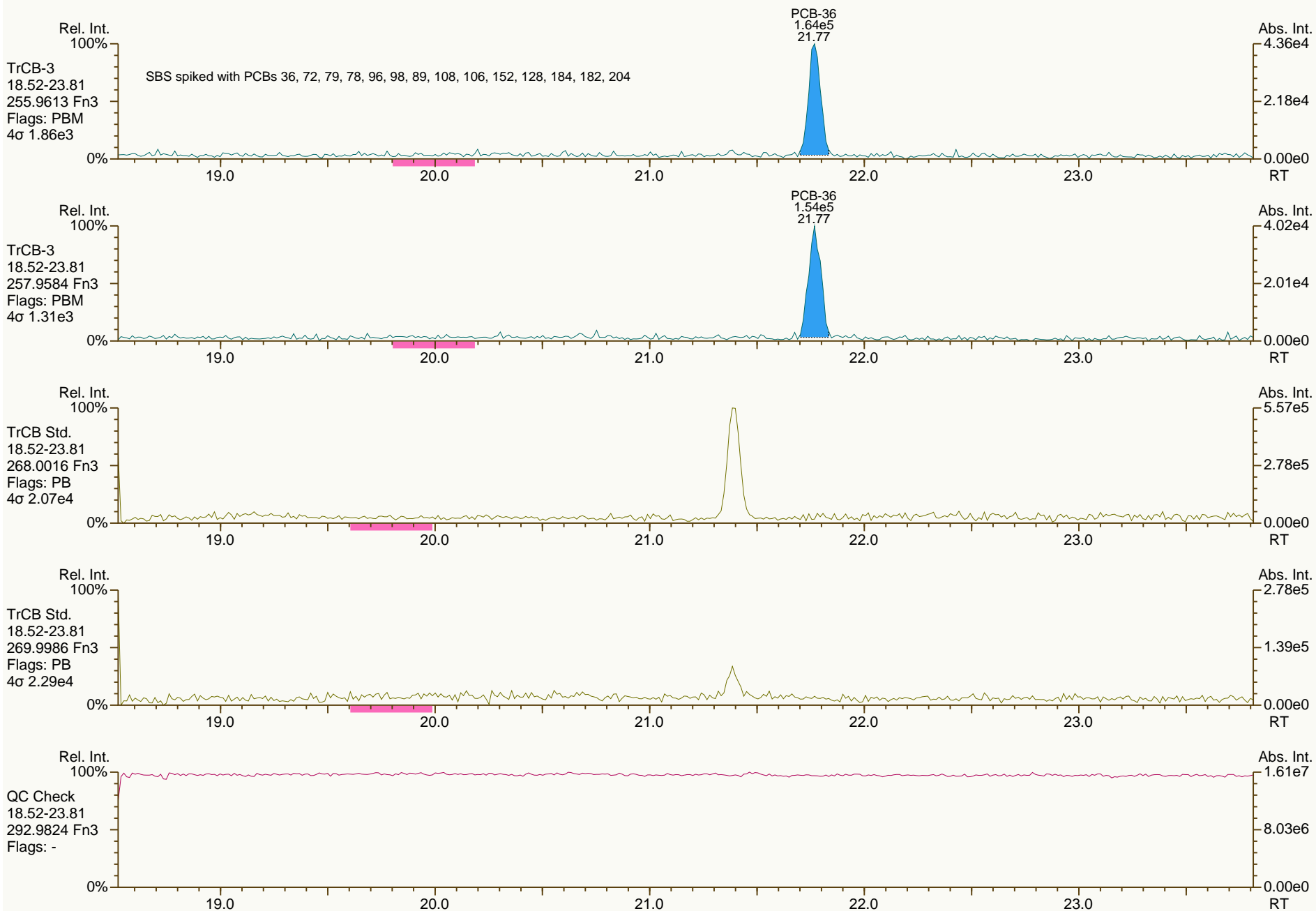
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 User: CTW Datafile: 131002S19



SGS-AP ID: SBS_131002_PCB_SD
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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SGS-AP ID: SBS_131002_PCB_SD
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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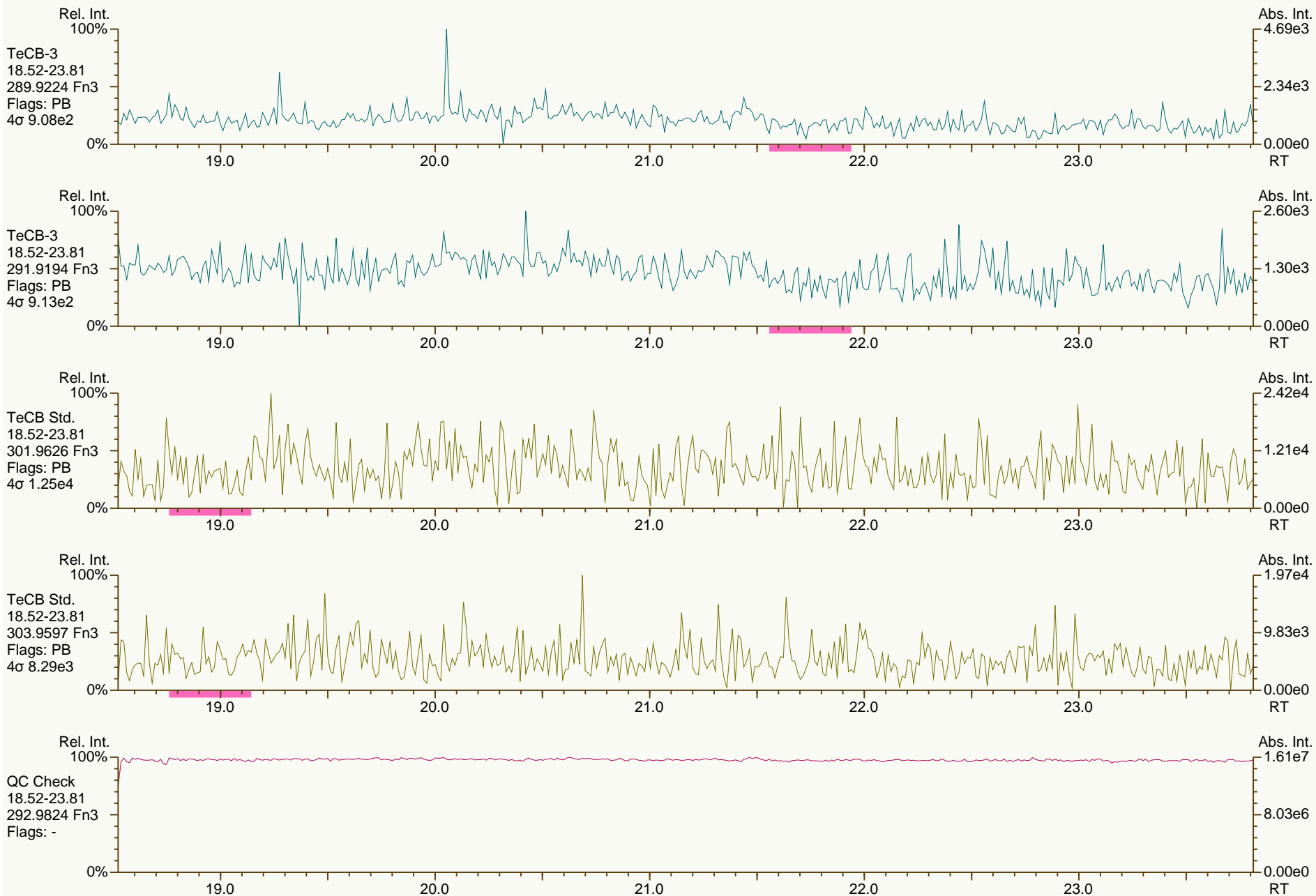
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SGS-AP ID: SBS_131002_PCB_SD
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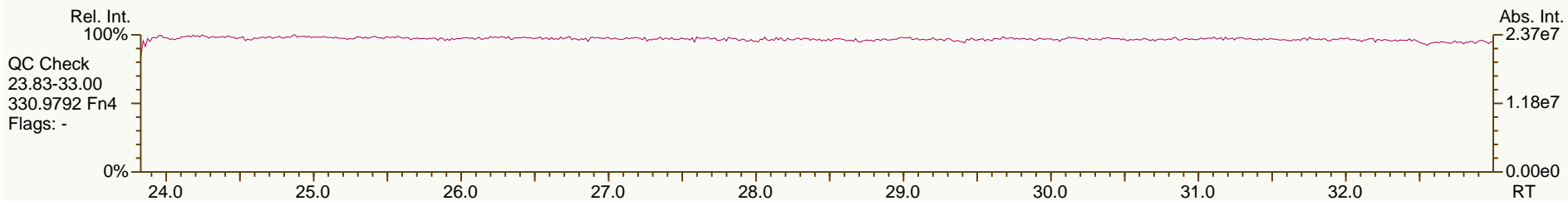
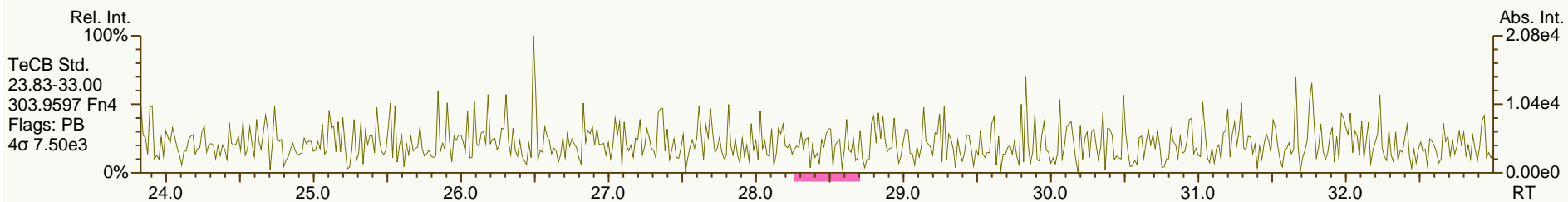
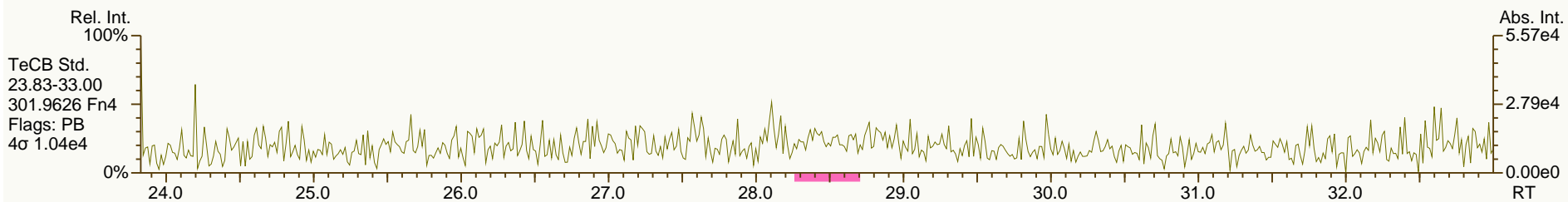
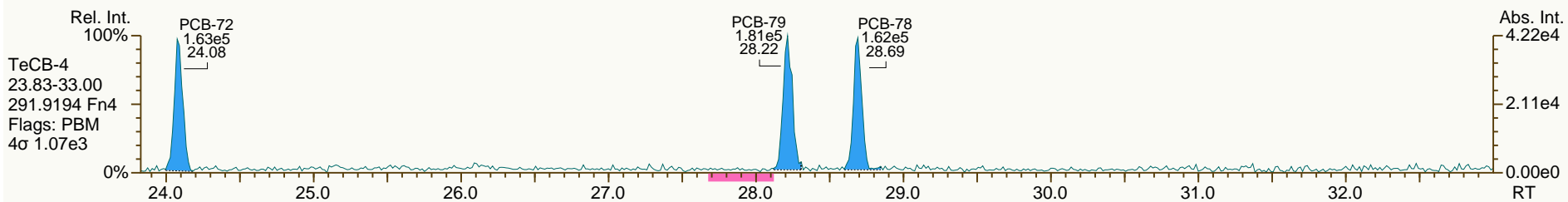
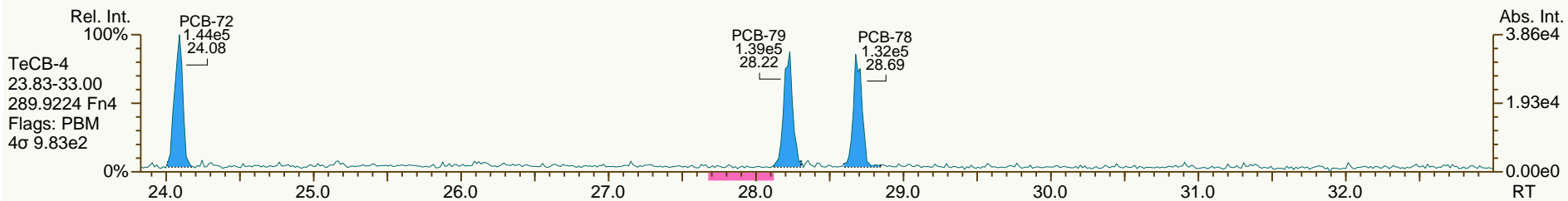
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SGS-AP ID: SBS_131002_PCB_SD
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Sample ID: SIL9-41-1
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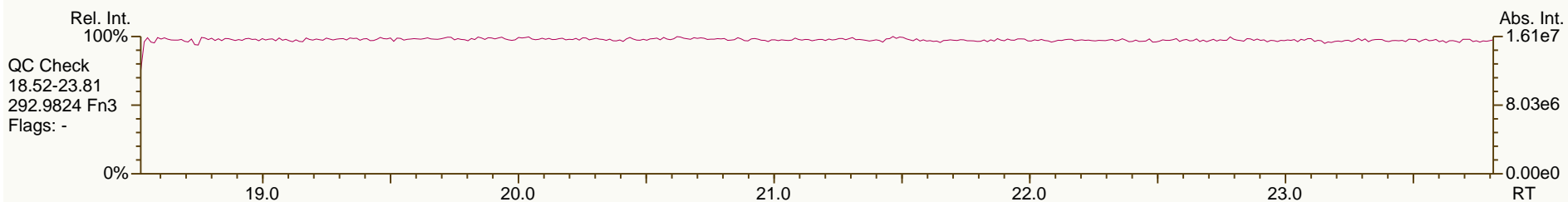
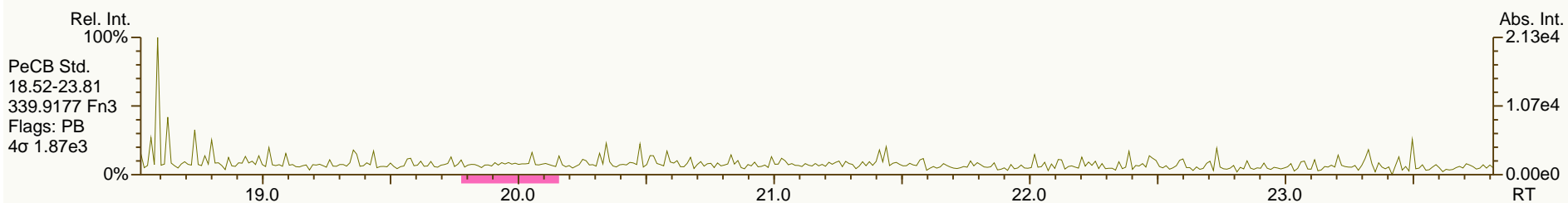
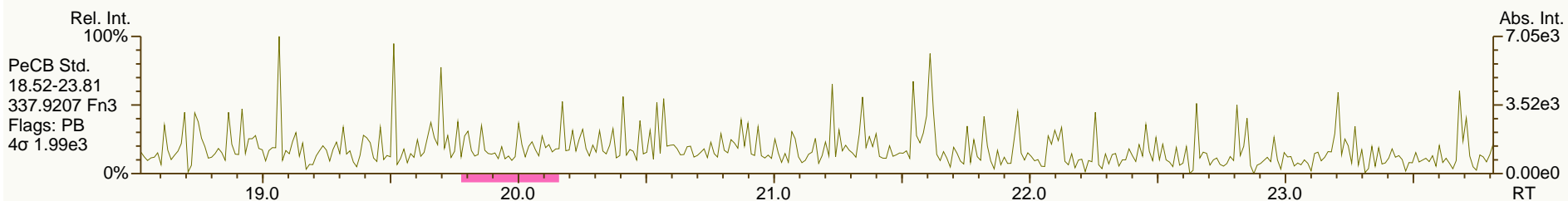
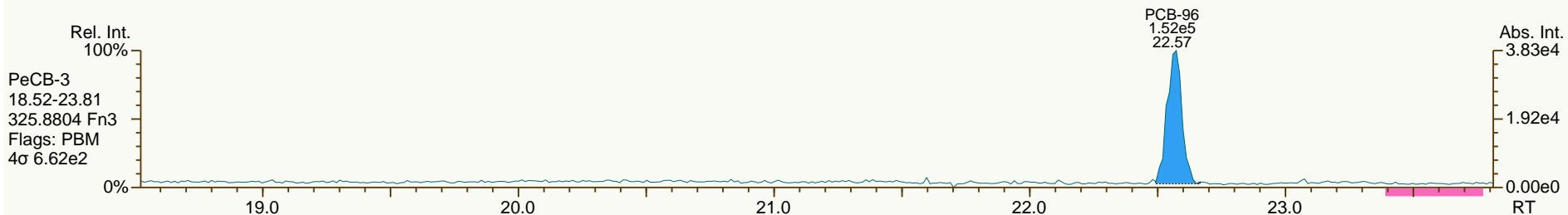
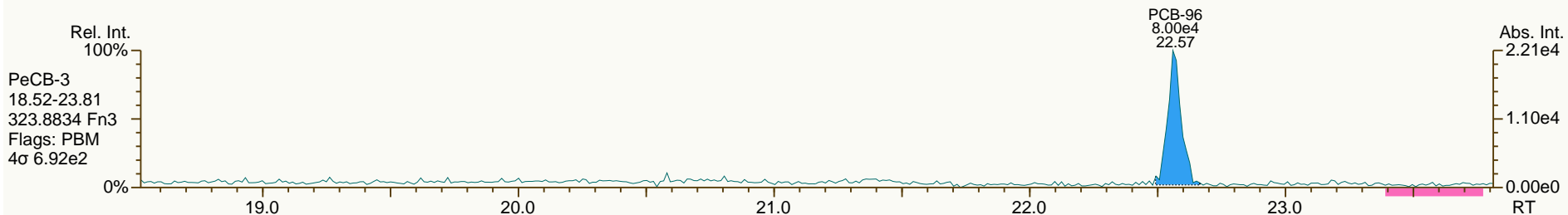
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SGS-AP ID: SBS_131002_PCB_SD
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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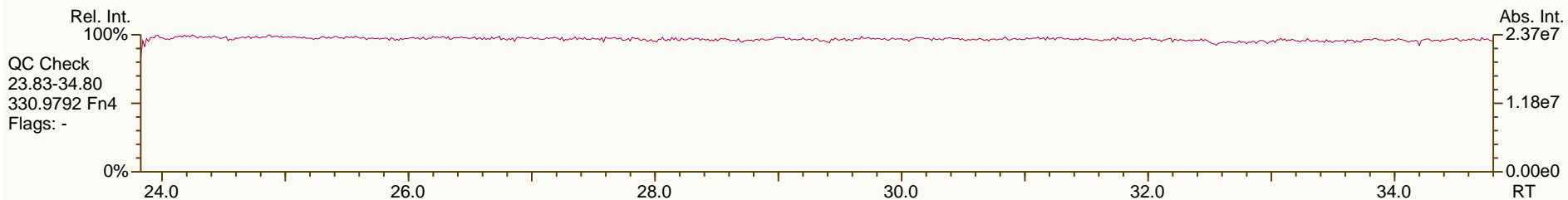
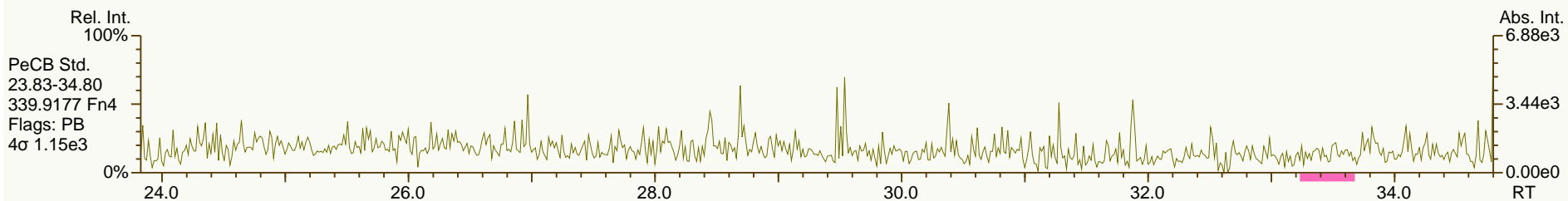
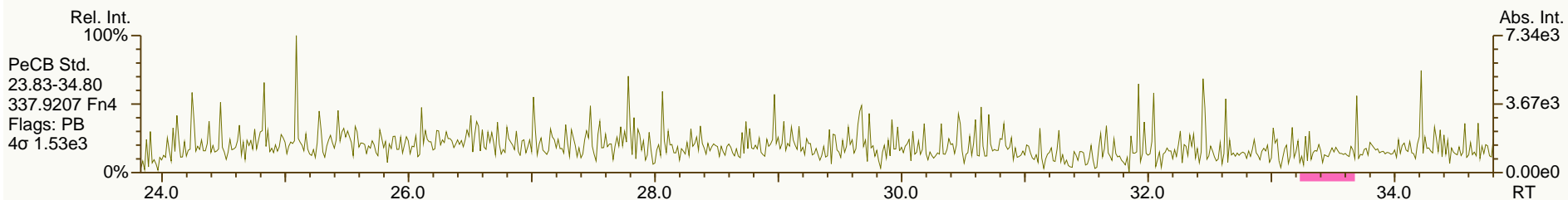
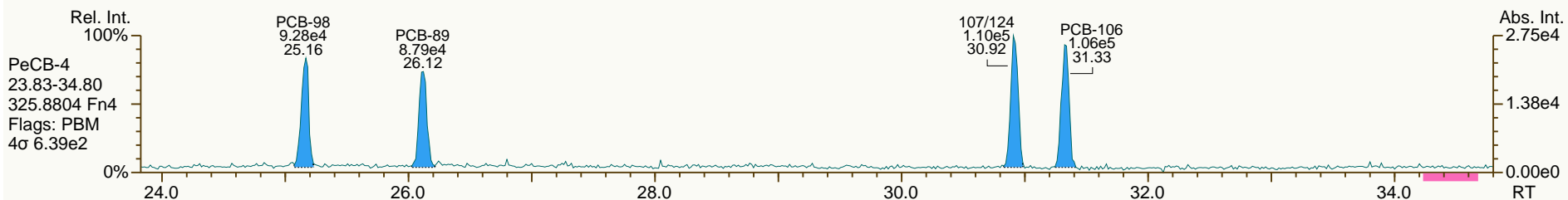
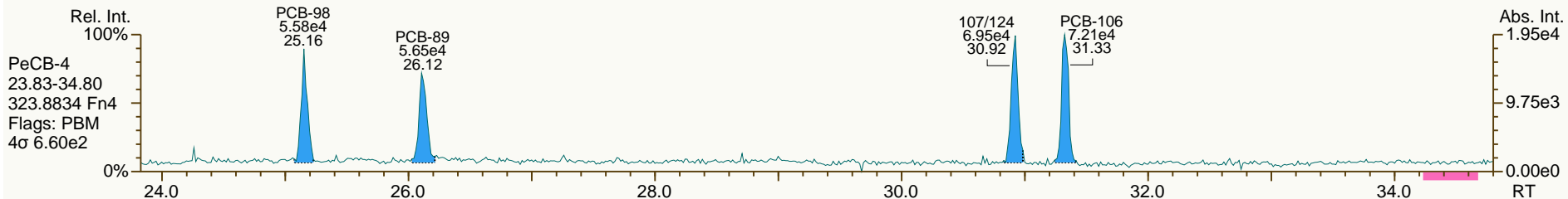
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SGS-AP ID: SBS_131002_PCB_SD
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Sample ID: SIL9-41-1
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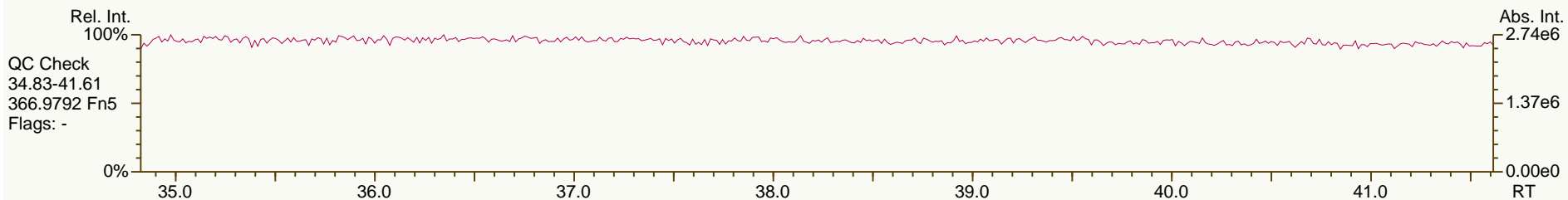
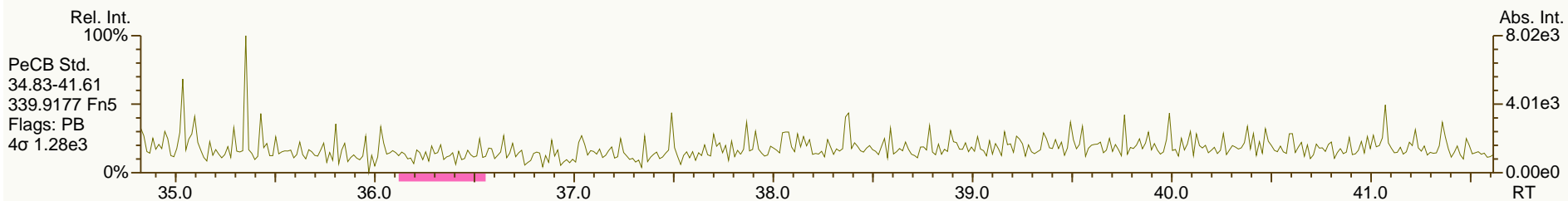
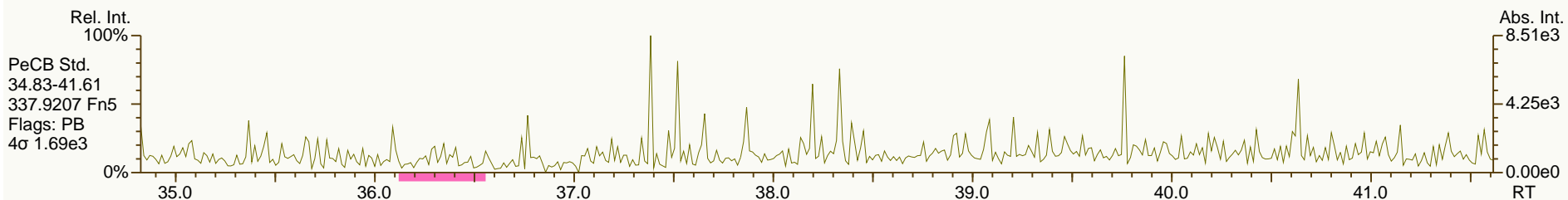
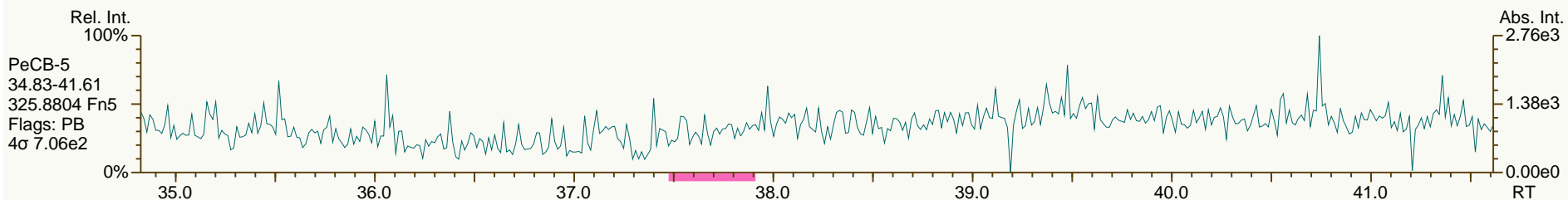
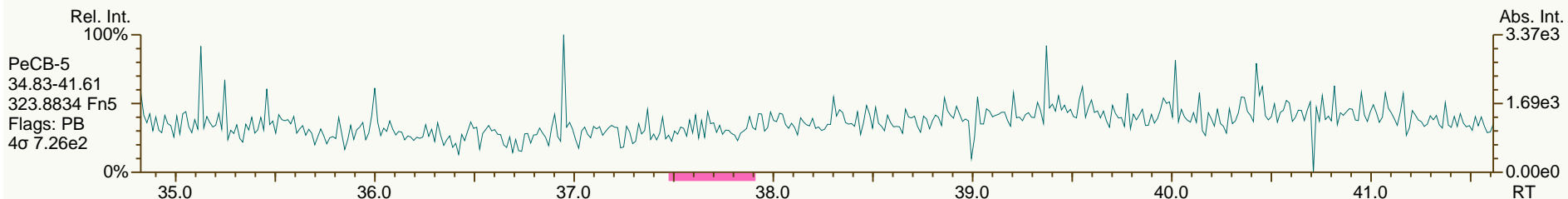
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SGS-AP ID: SBS_131002_PCB_SD
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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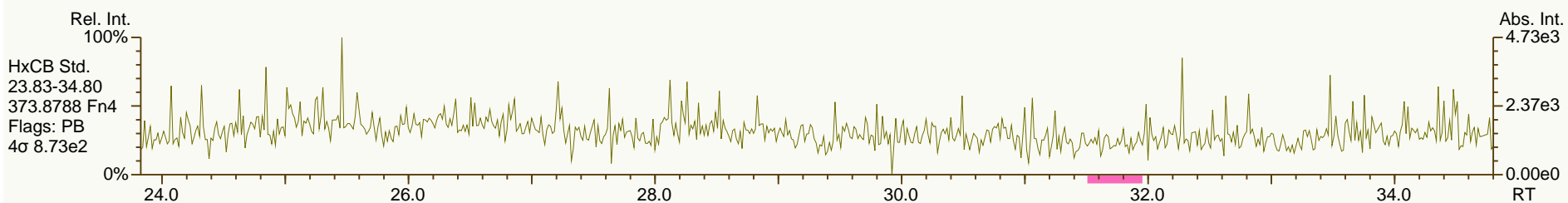
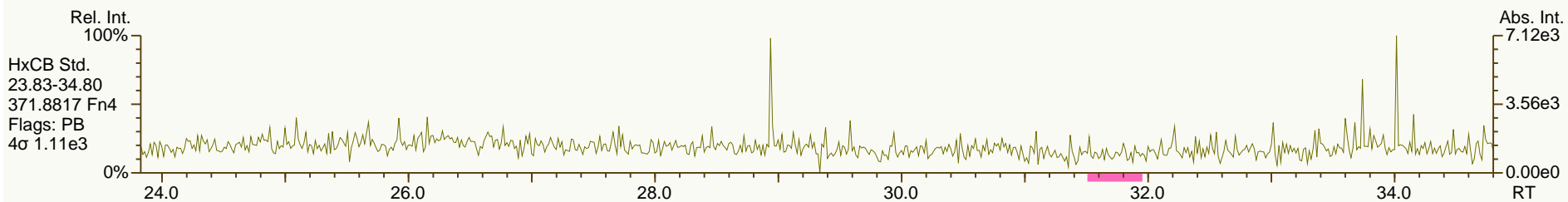
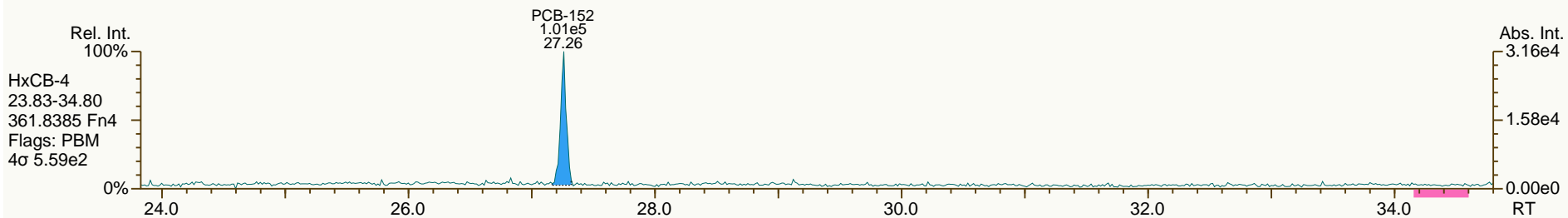
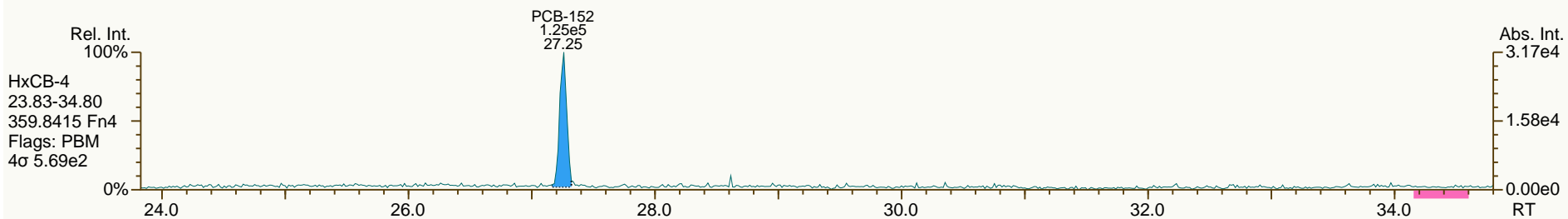
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SGS-AP ID: SBS_131002_PCB_SD
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

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SGS-AP ID: SBS_131002_PCB_SD
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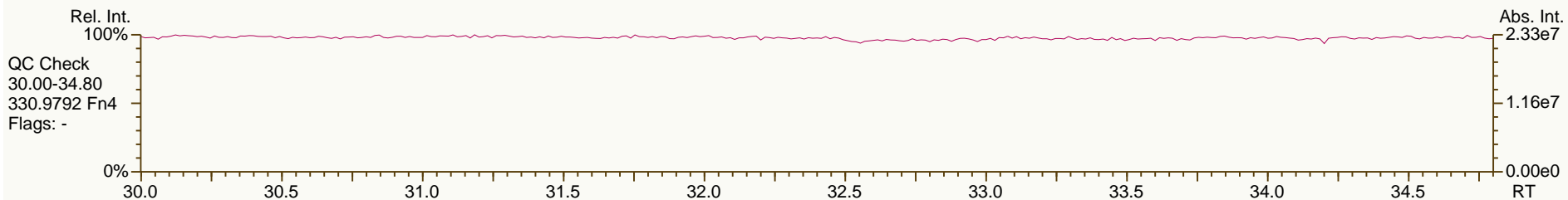
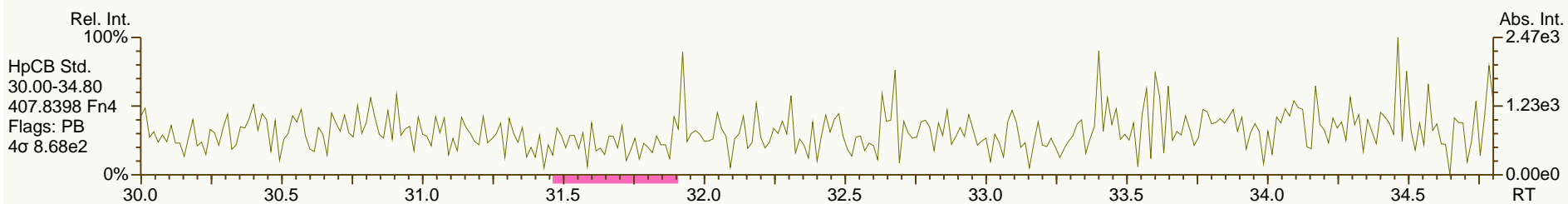
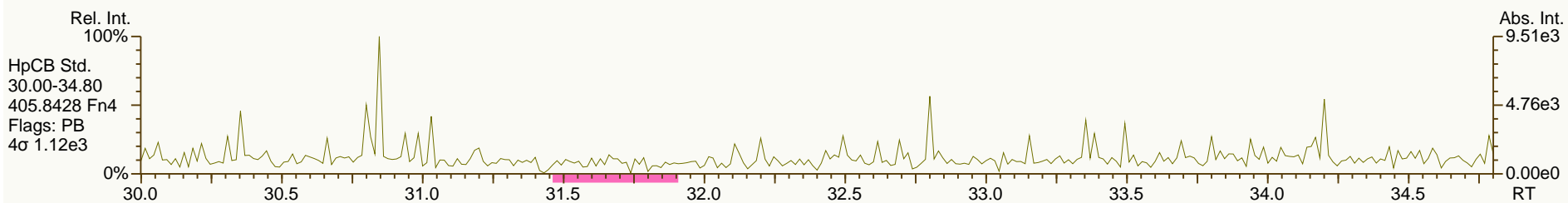
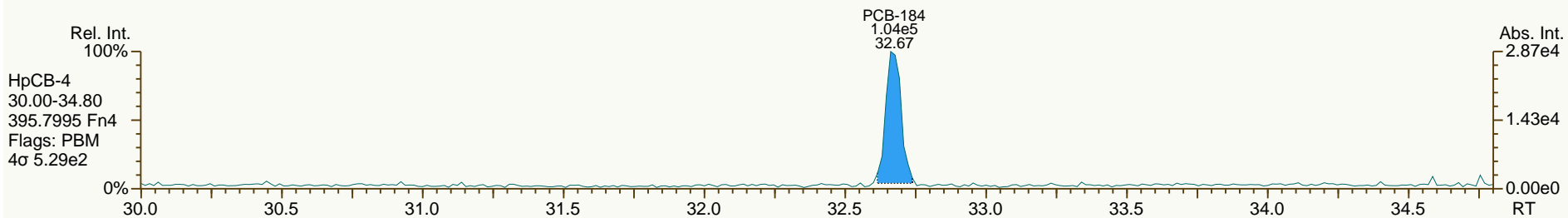
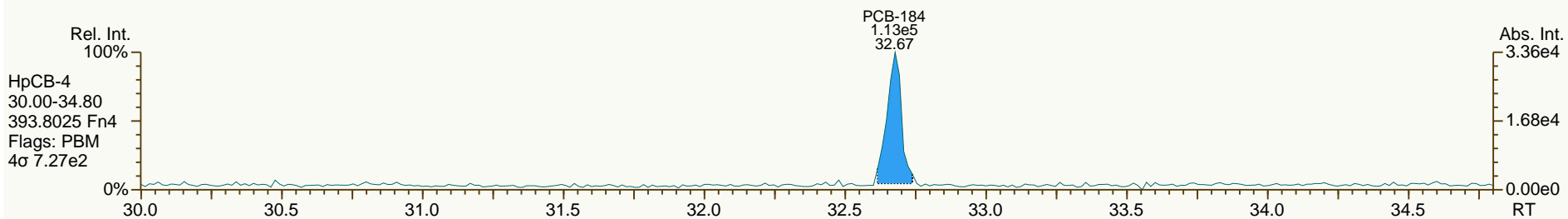
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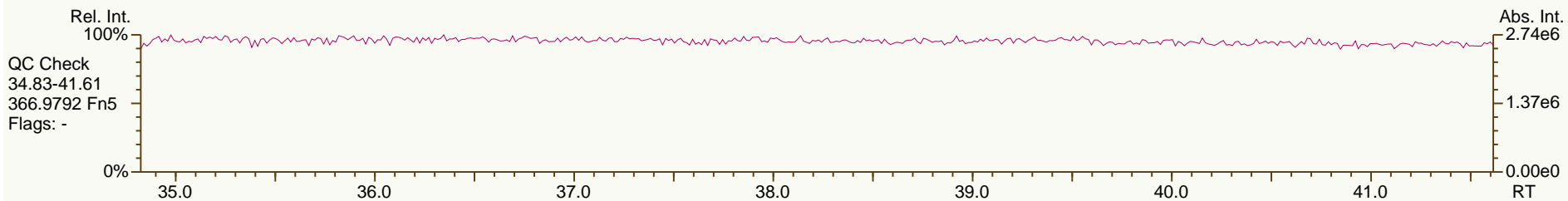
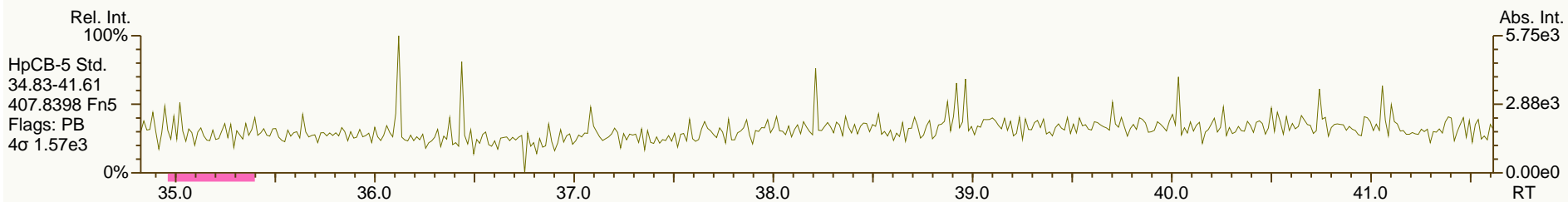
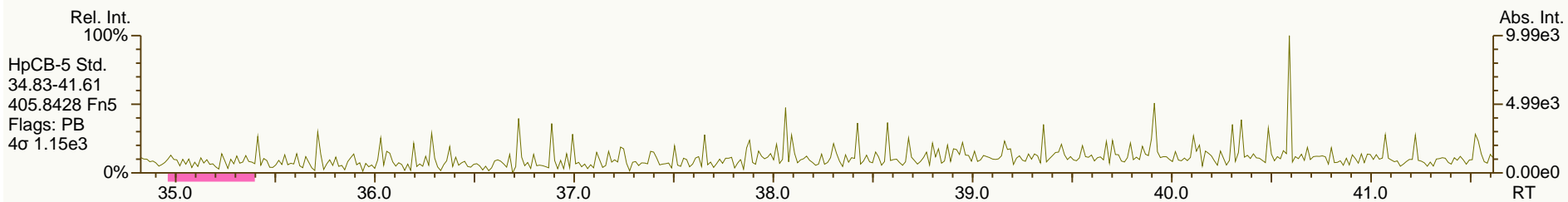
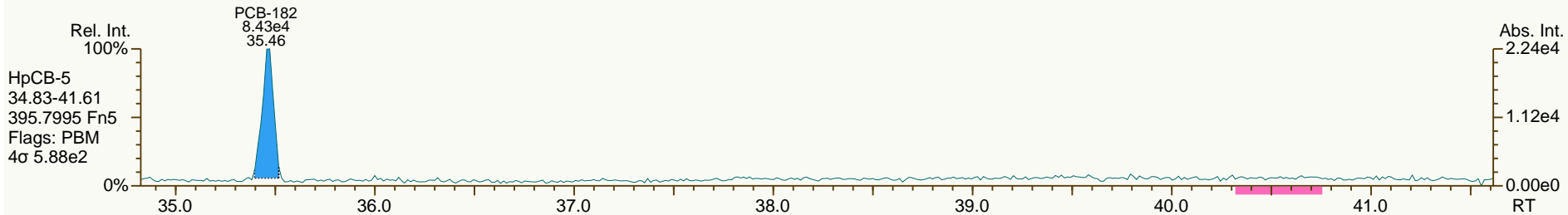
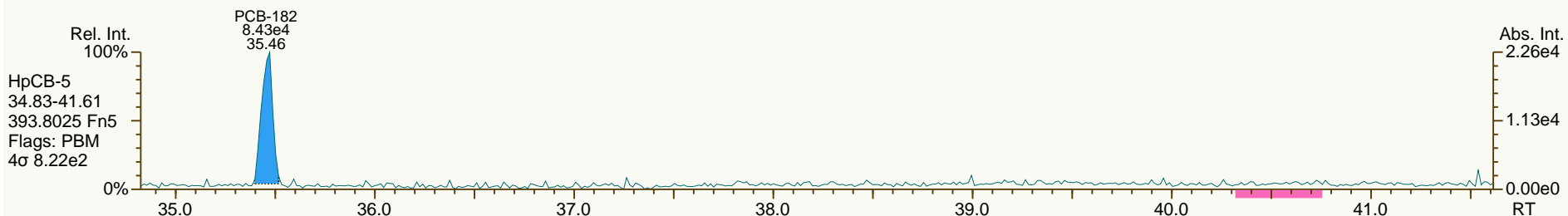
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SGS-AP ID: SBS_131002_PCB_SD
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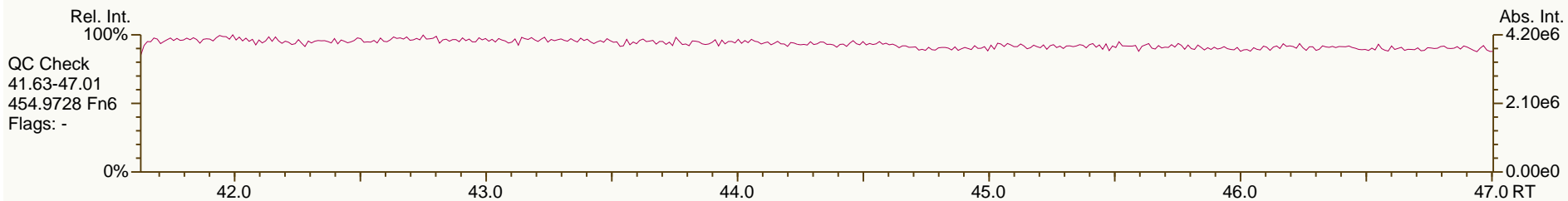
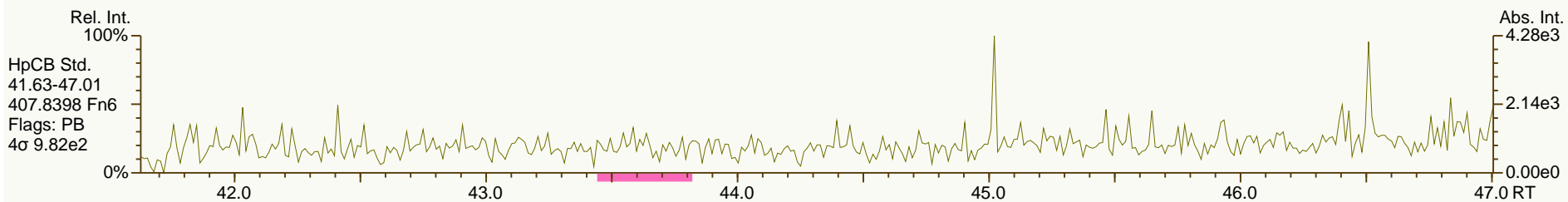
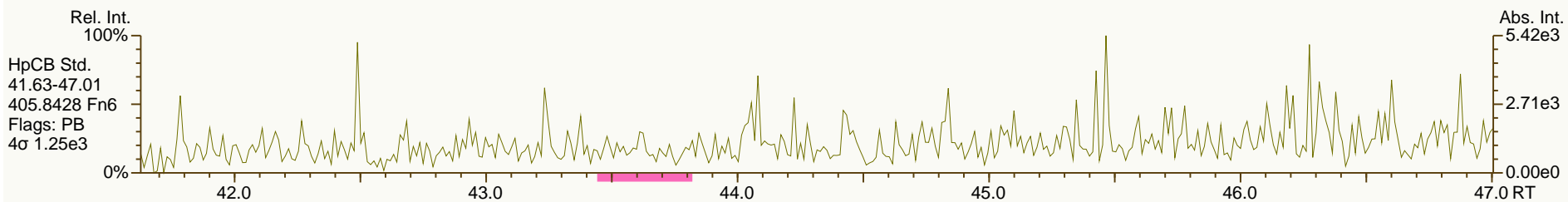
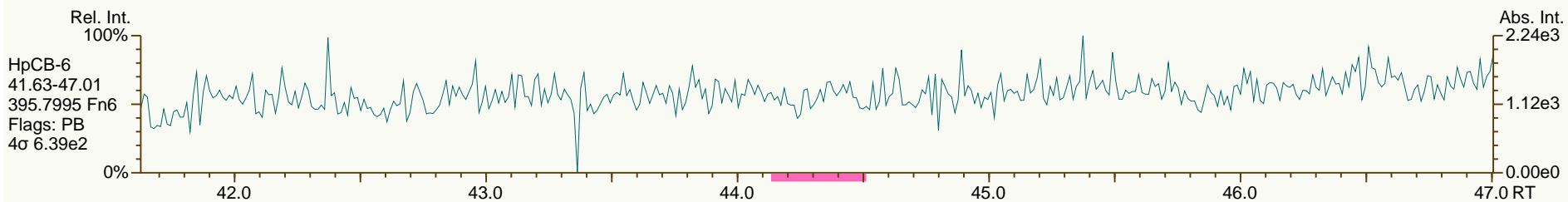
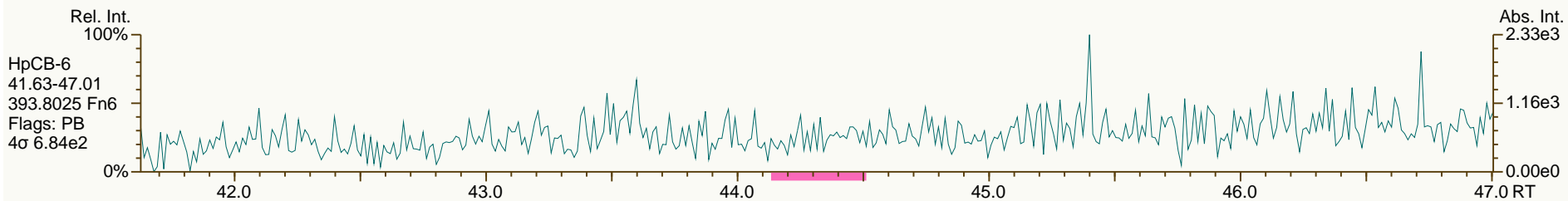
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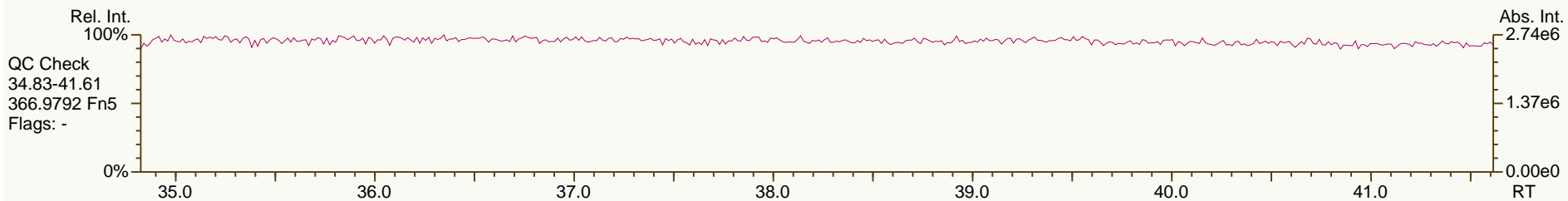
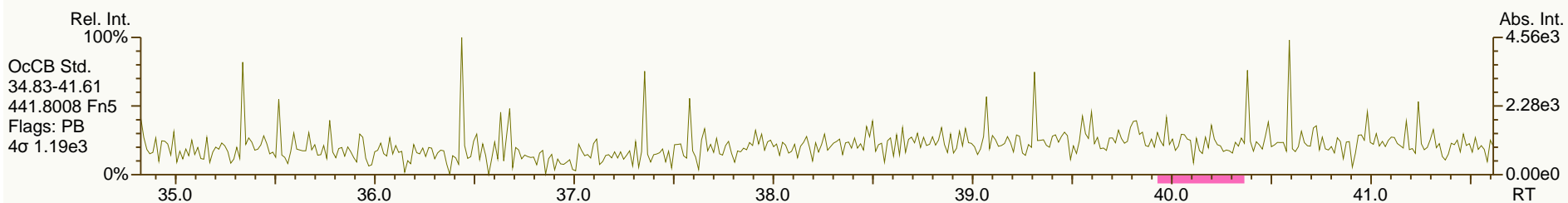
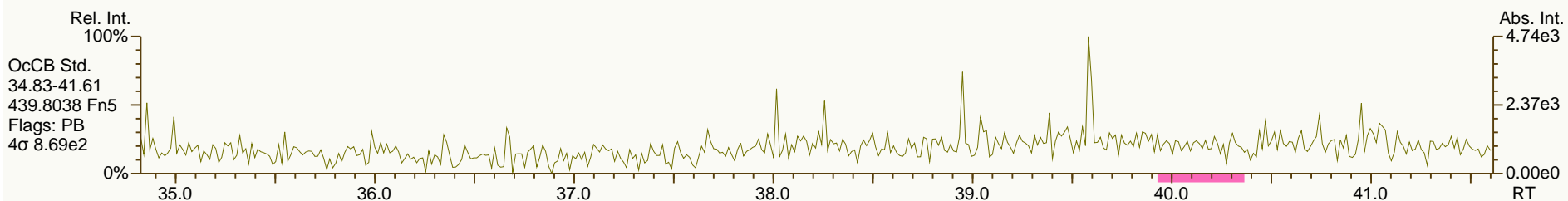
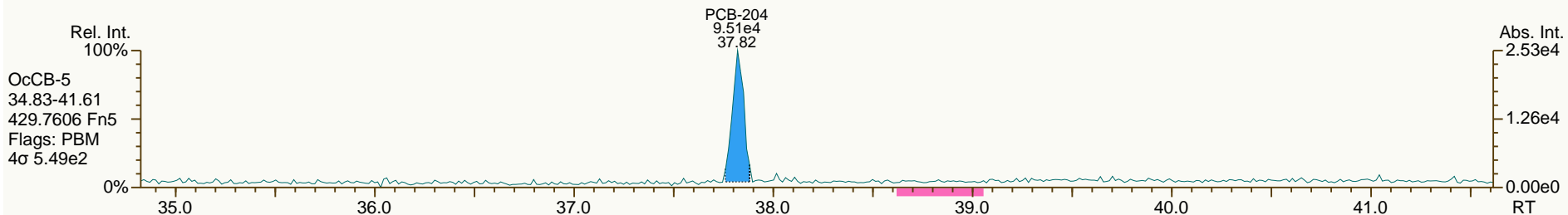
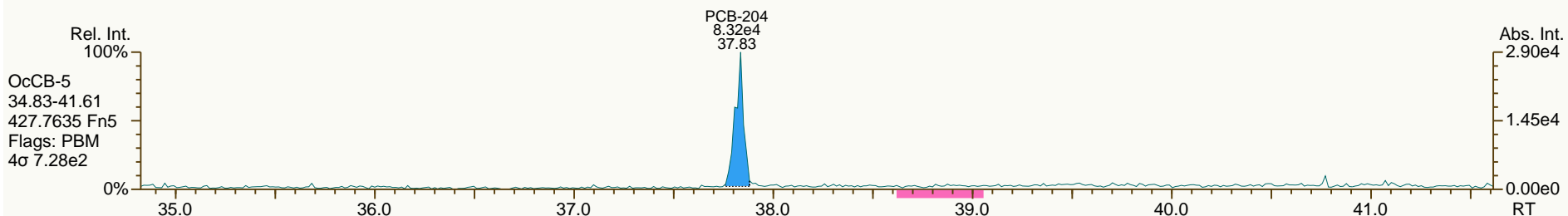
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SGS-AP ID: SBS_131002_PCB_SD
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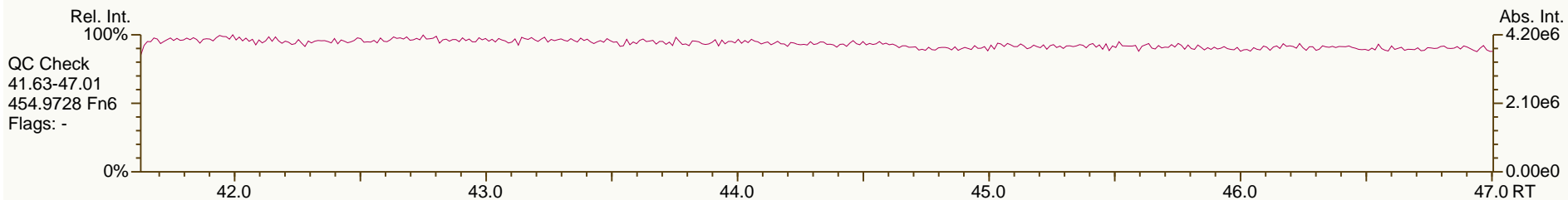
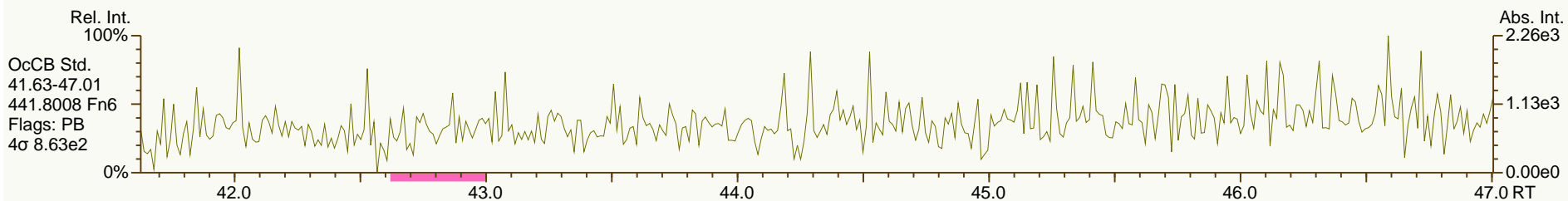
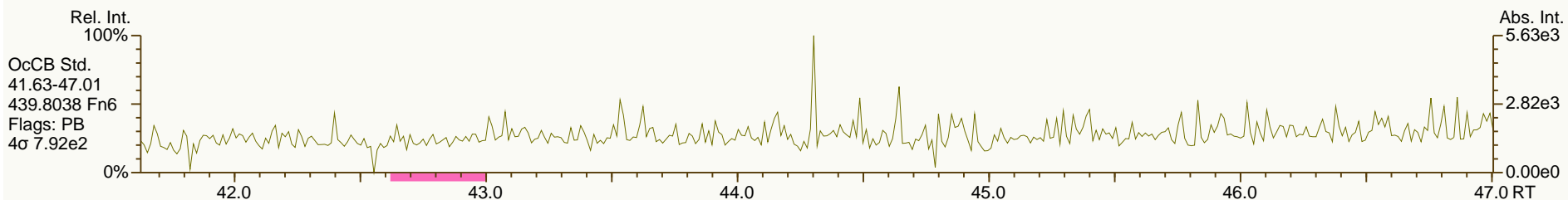
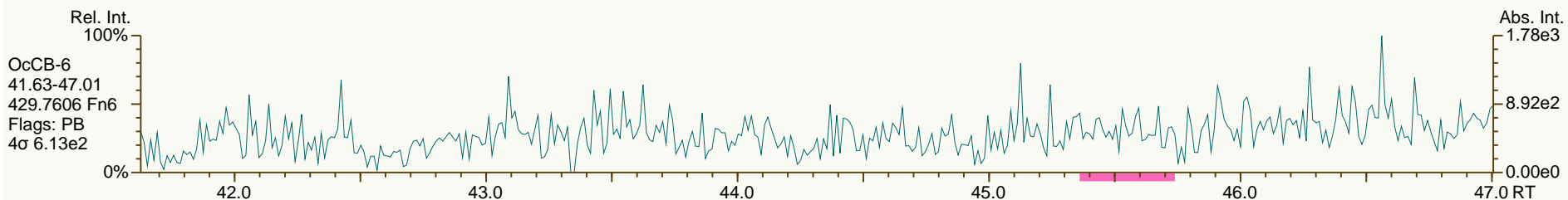
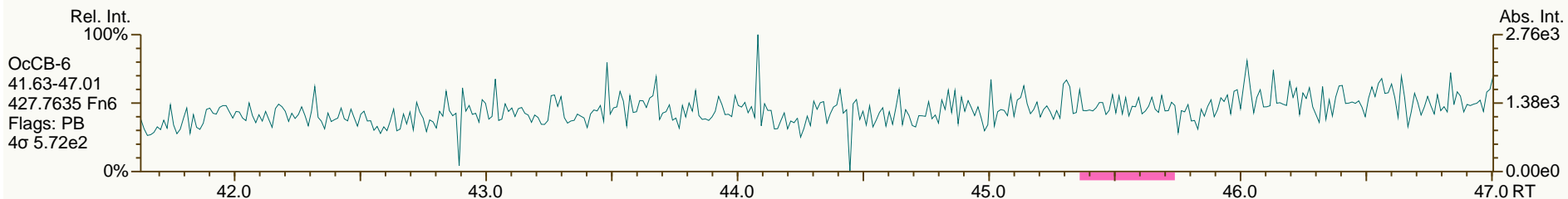
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 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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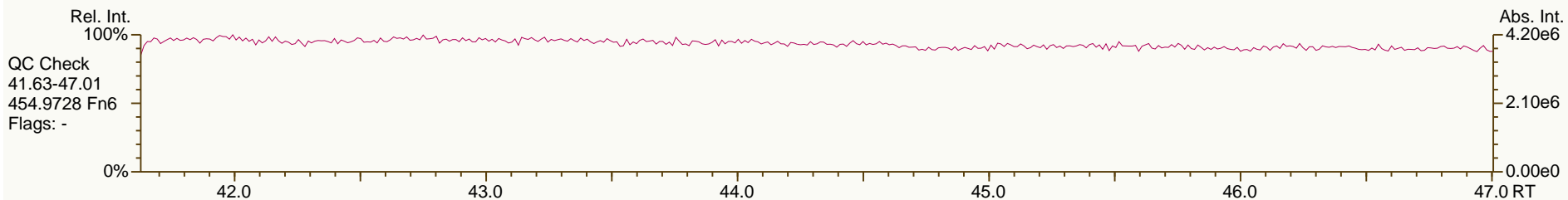
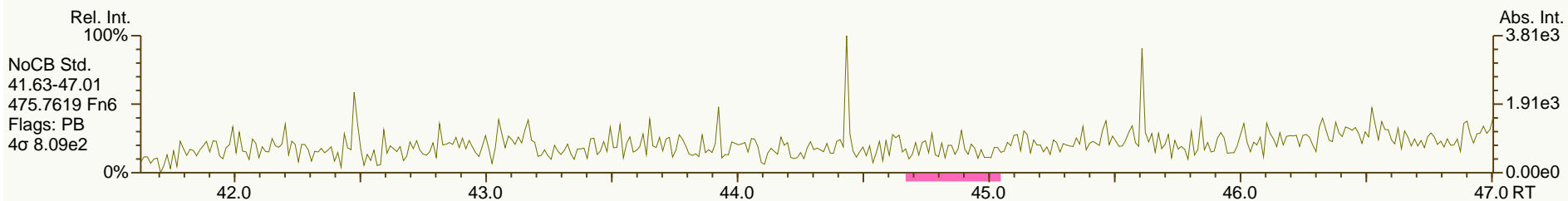
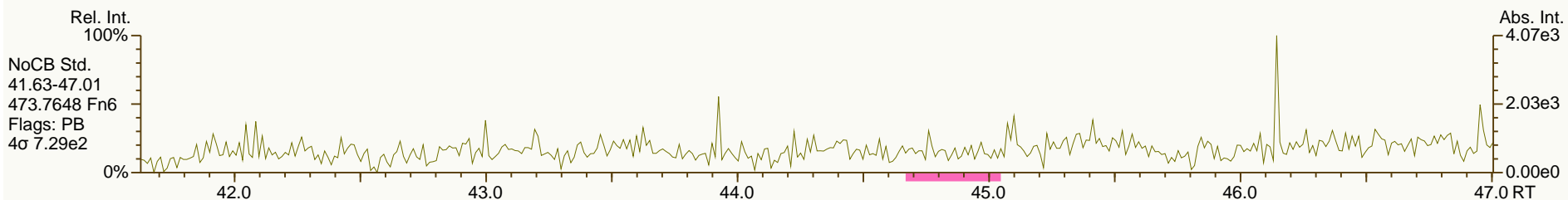
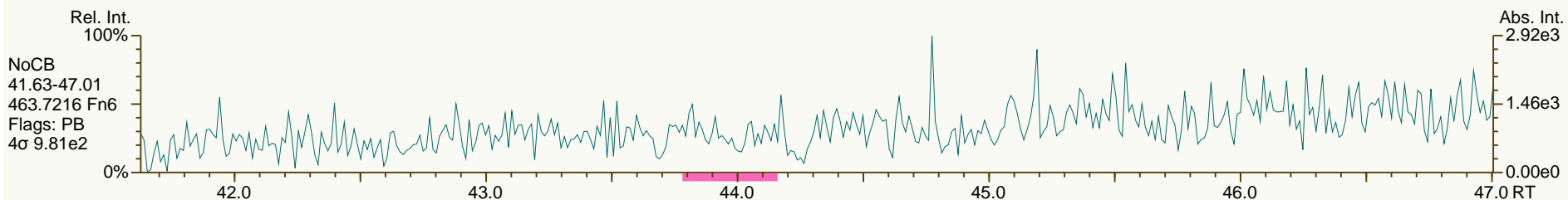
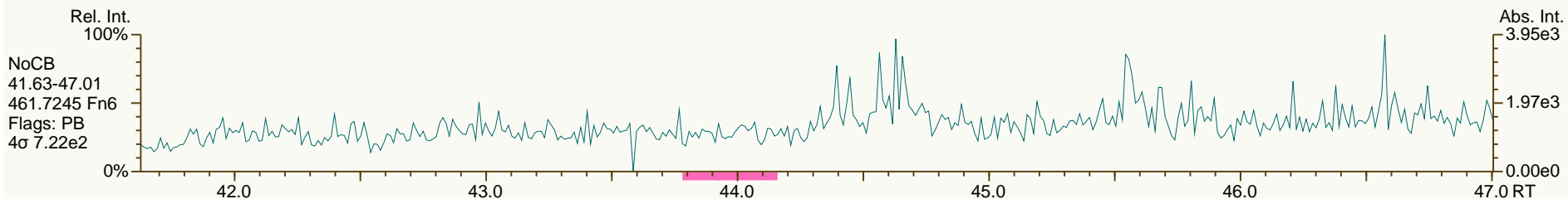
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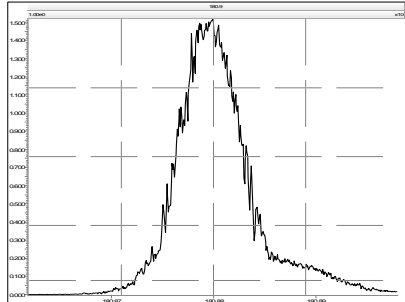


Resolution Check Report

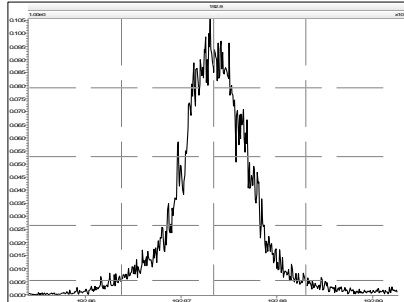
MassLynx 4.1

Printed: Wednesday, October 02, 2013 20:28:14 Eastern Daylight Time

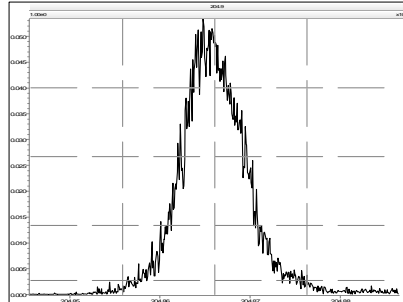
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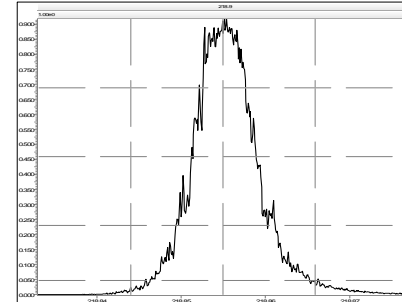
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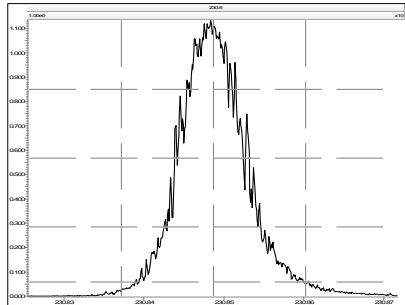
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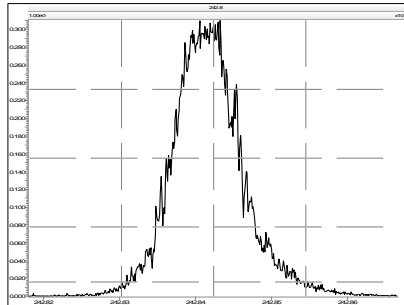
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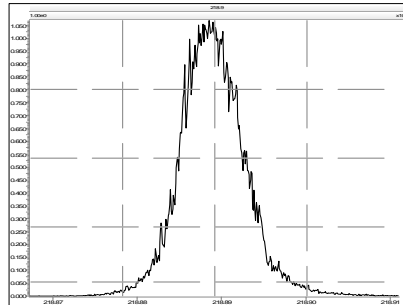
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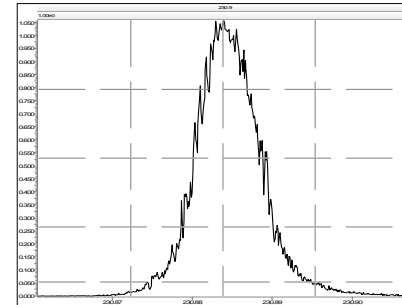
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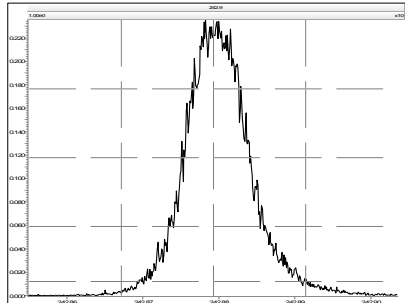
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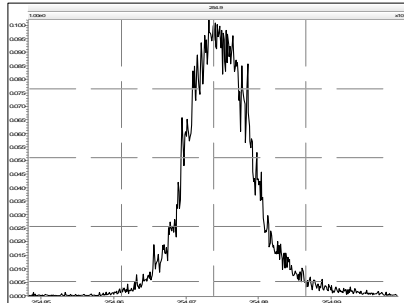
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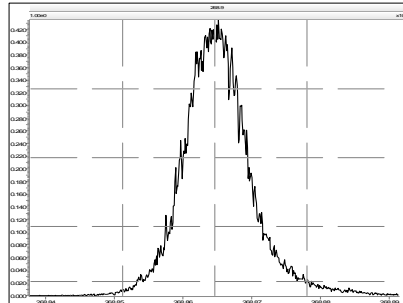
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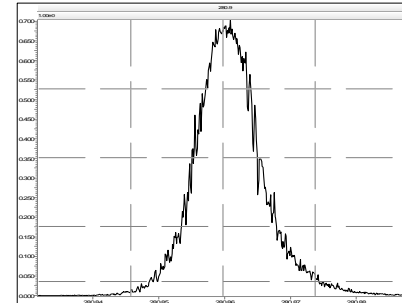
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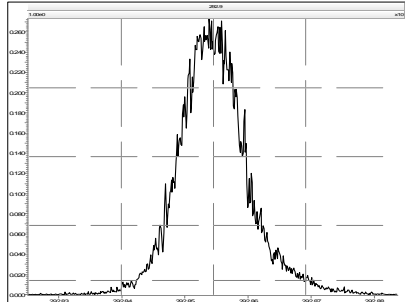
column bleed affecting m/z 181 in both set of plots. OK.
All other masses show 10,000 res or greater. ajb 10/10/2013

Resolution Check Report

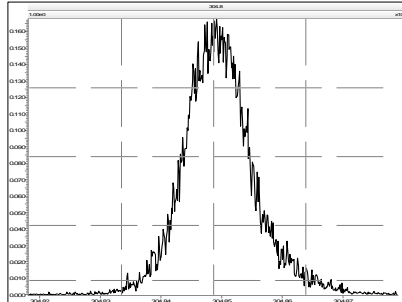
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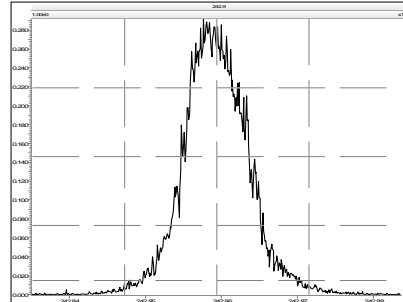
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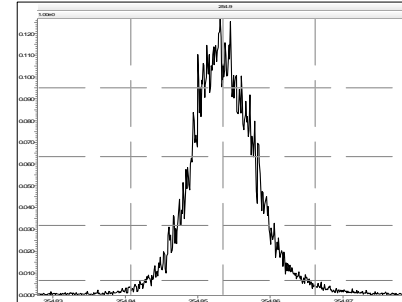
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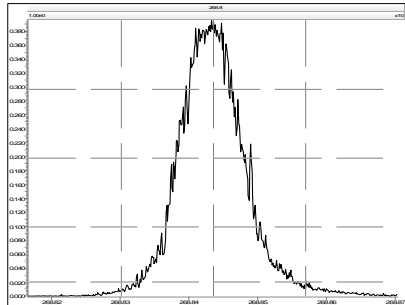
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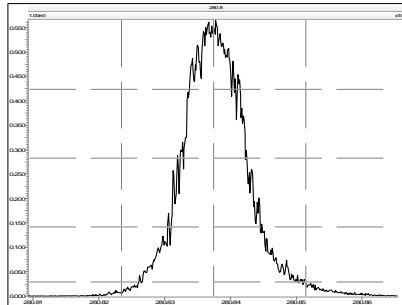
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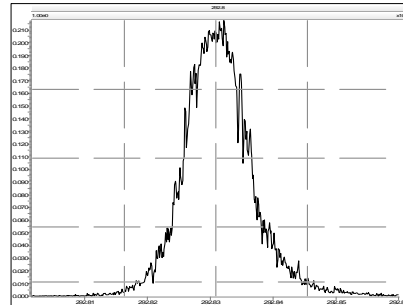
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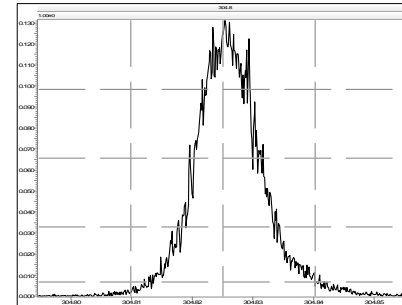
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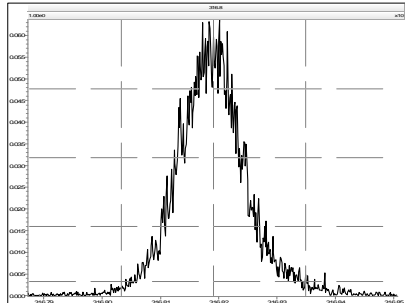
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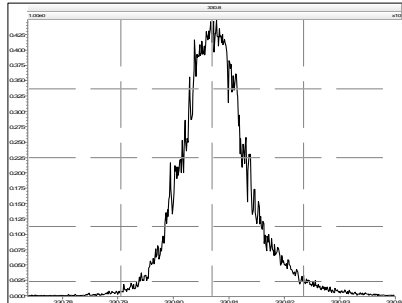
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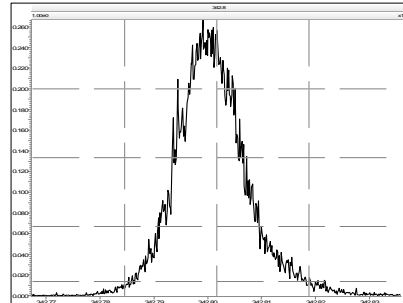
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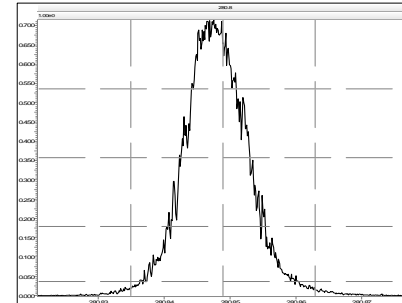
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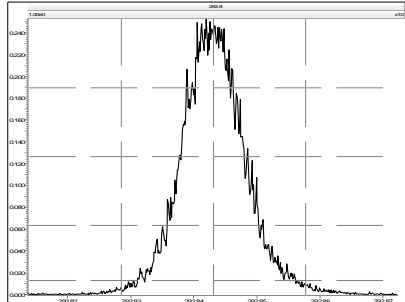
Resolution Check Report

MassLynx 4.1

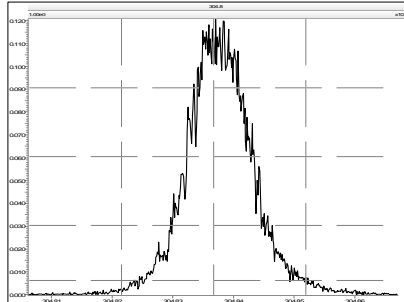
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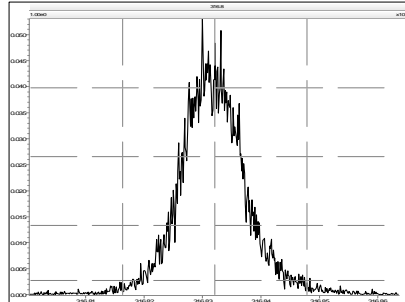
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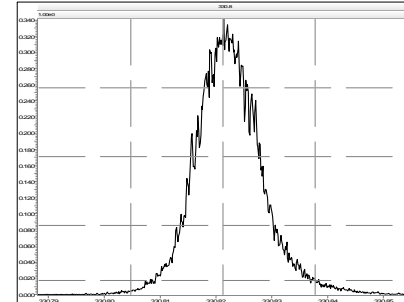
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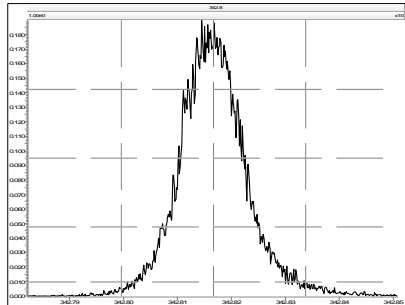
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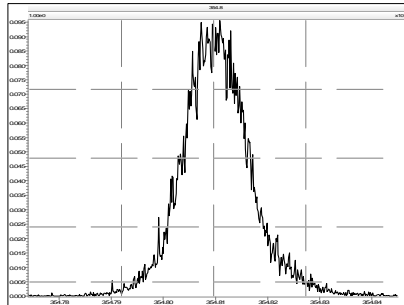
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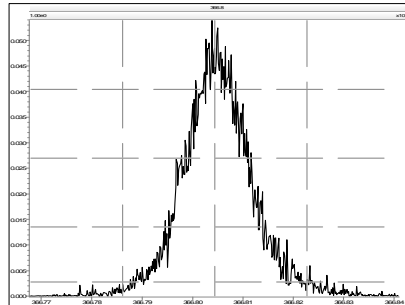
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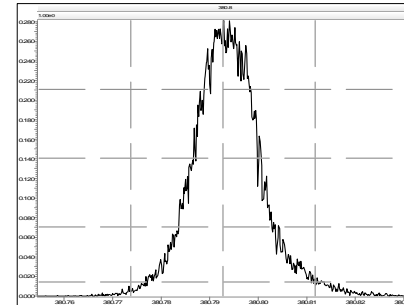
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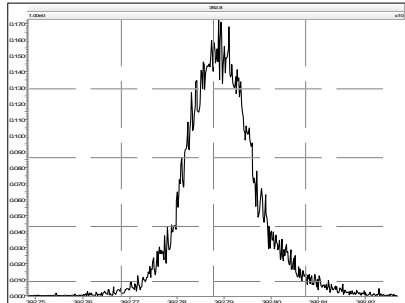
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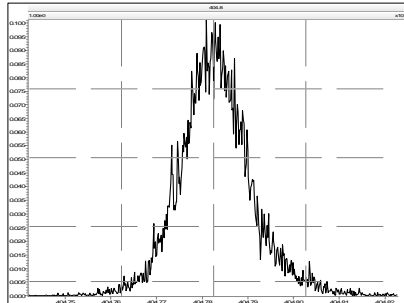
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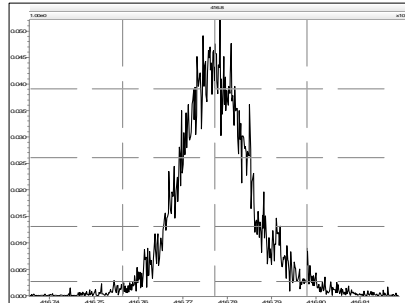
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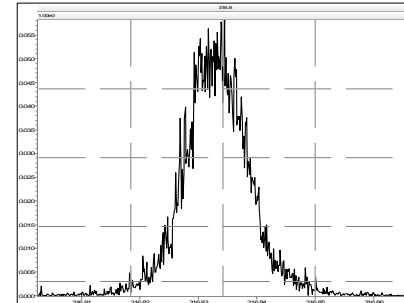
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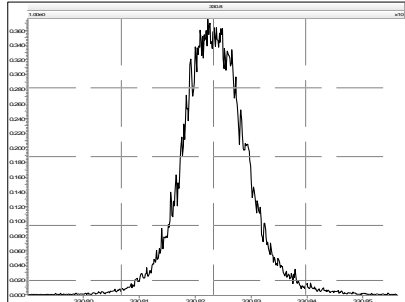
Resolution Check Report

MassLynx 4.1

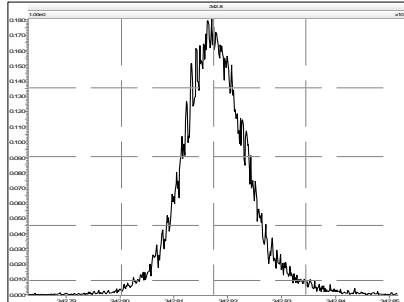
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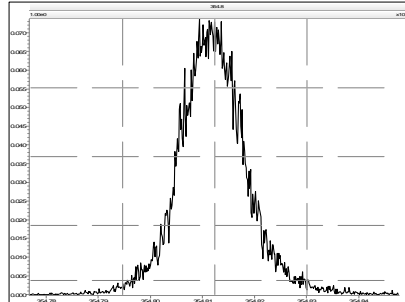
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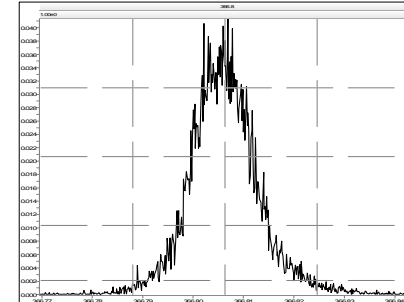
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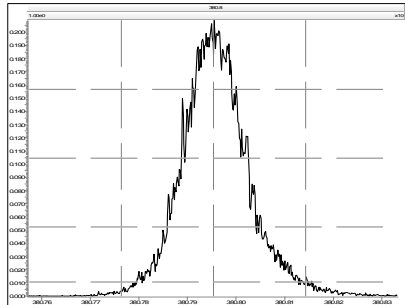
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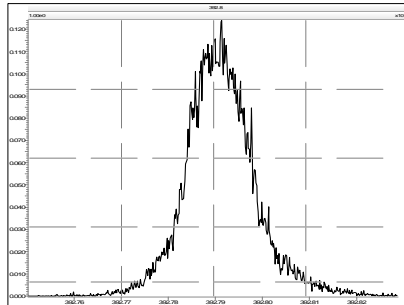
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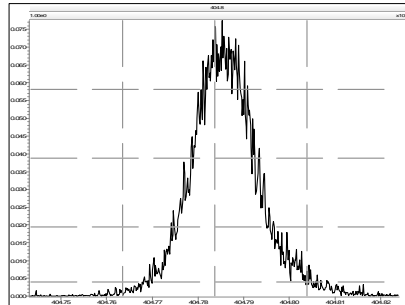
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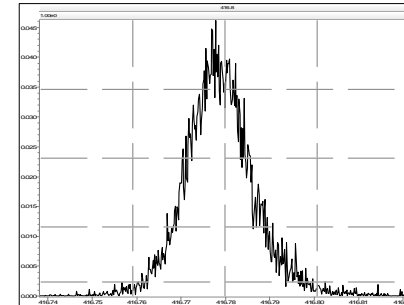
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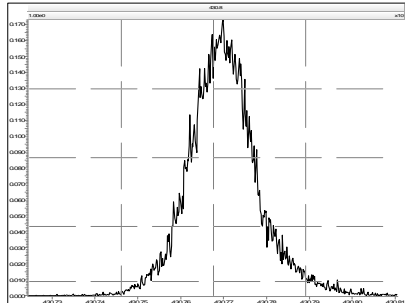
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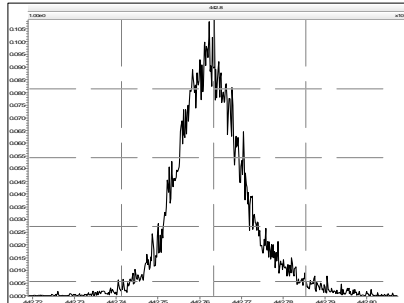
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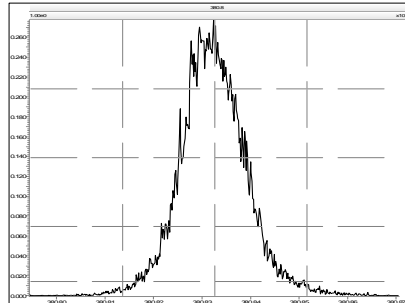
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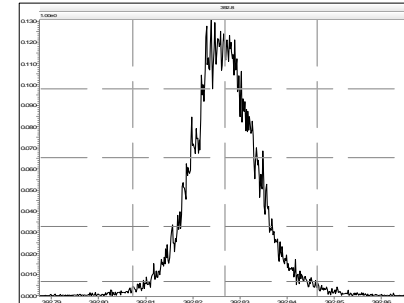
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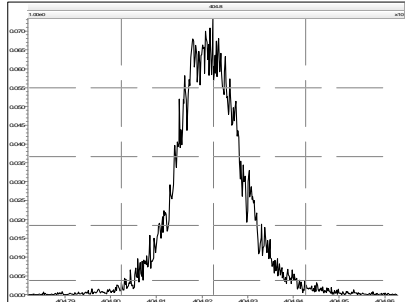
Resolution Check Report

MassLynx 4.1

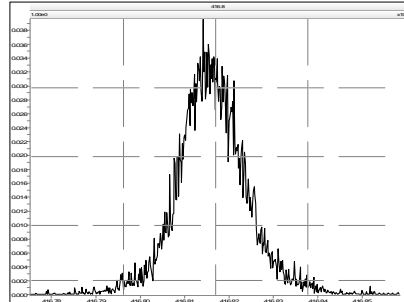
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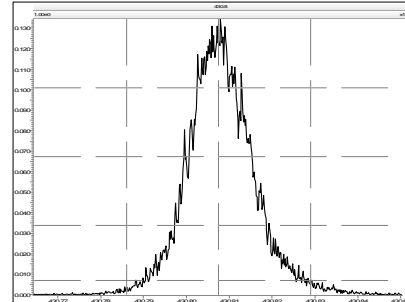
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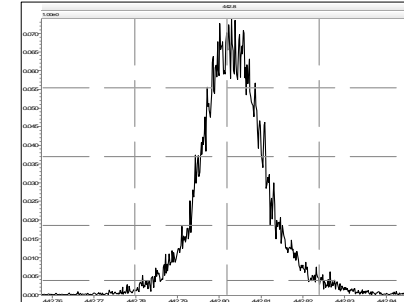
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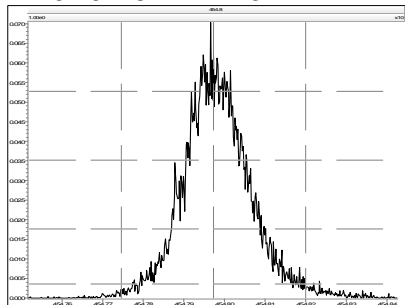
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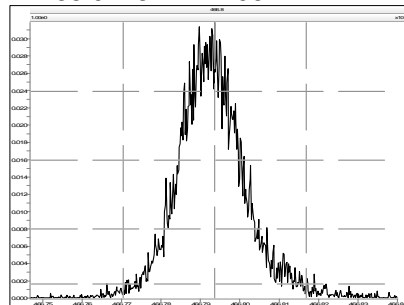
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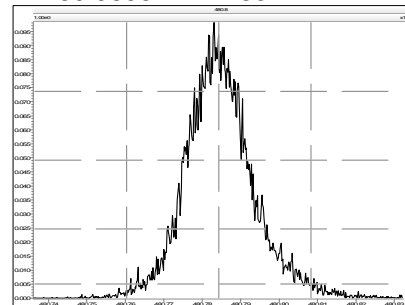
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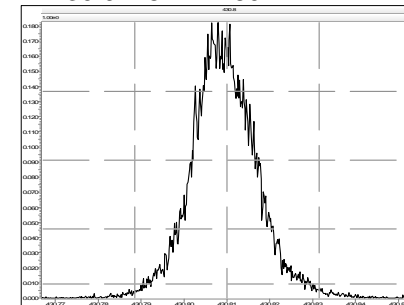
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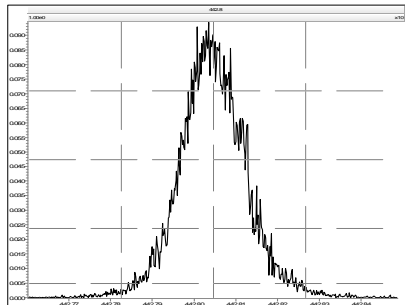
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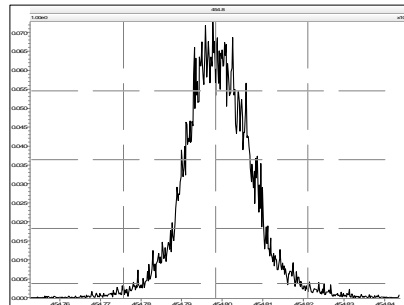
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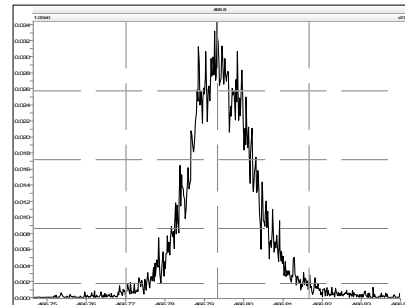
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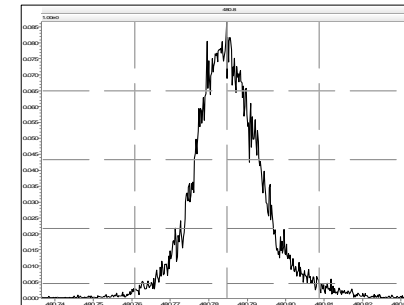
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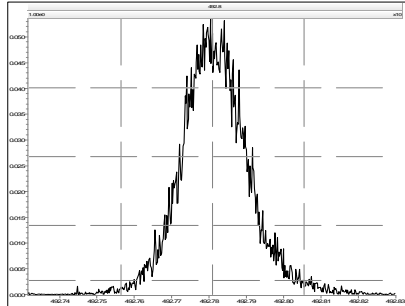
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MassLynx 4.1

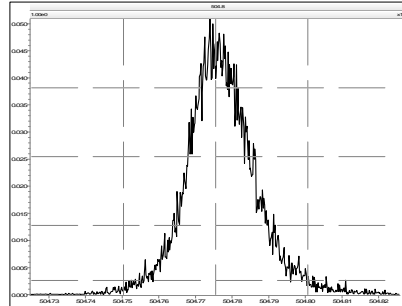
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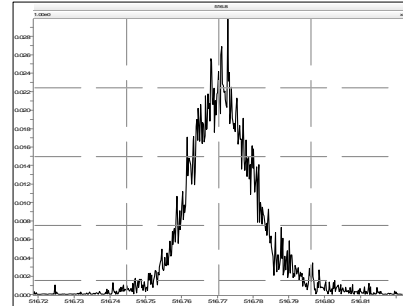
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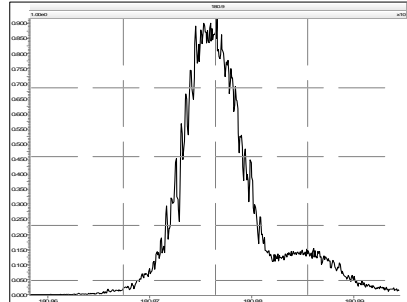
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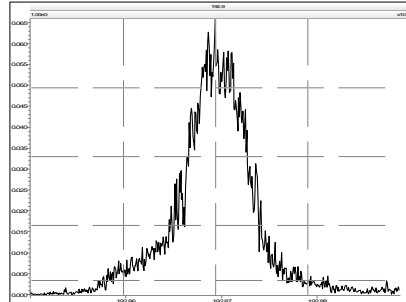
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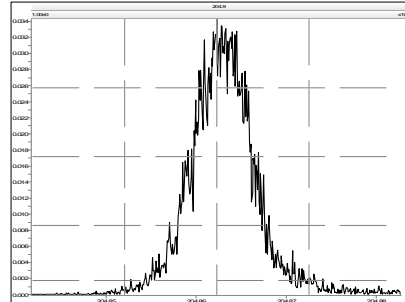
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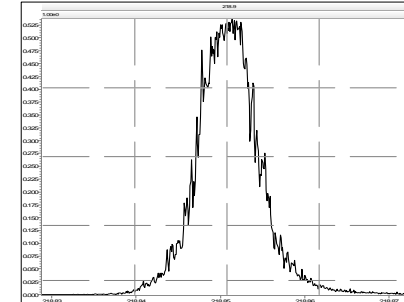
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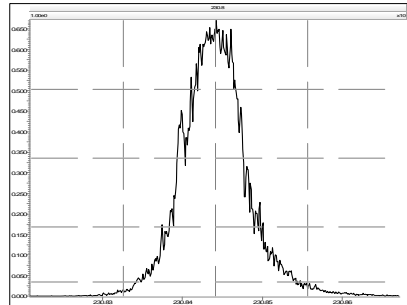
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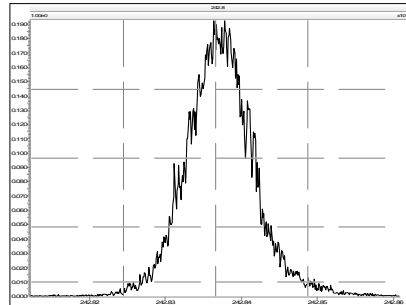
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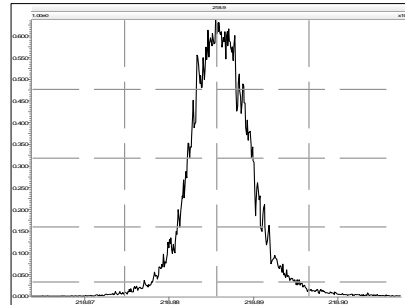
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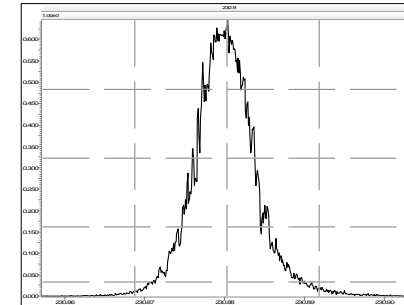
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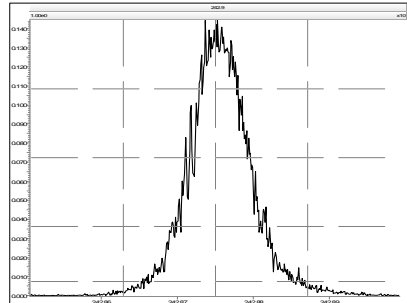
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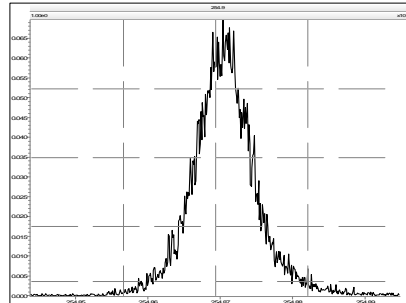
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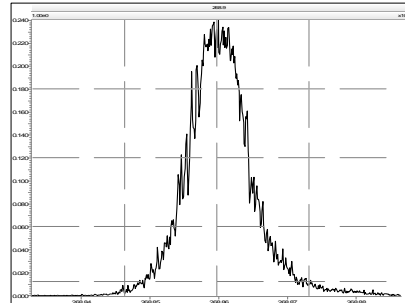
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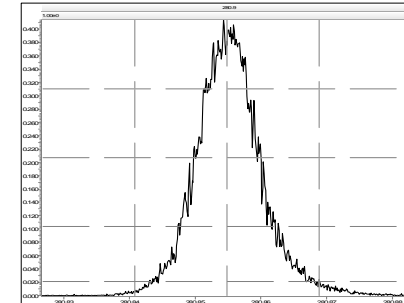
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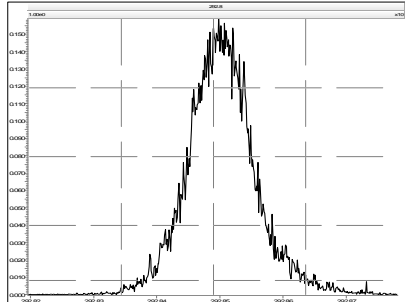


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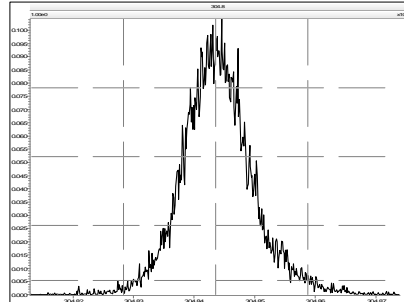
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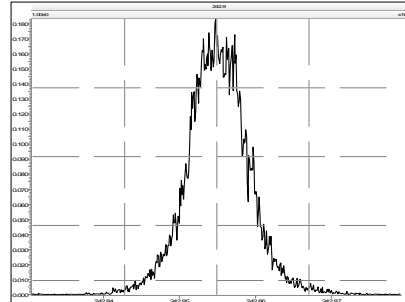
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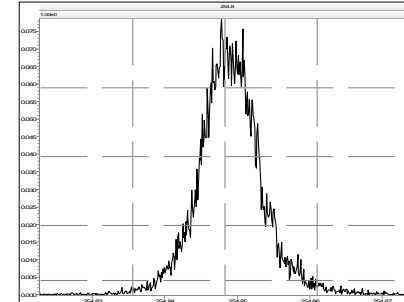
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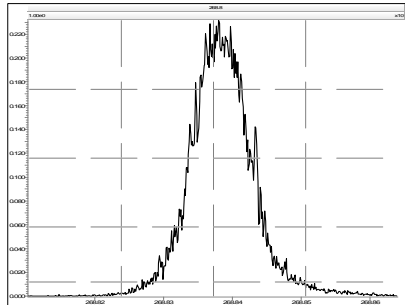
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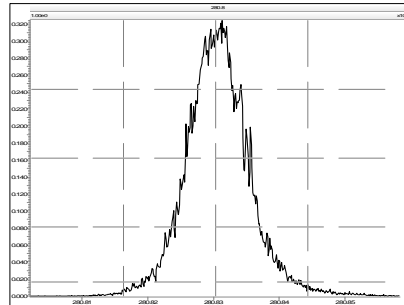
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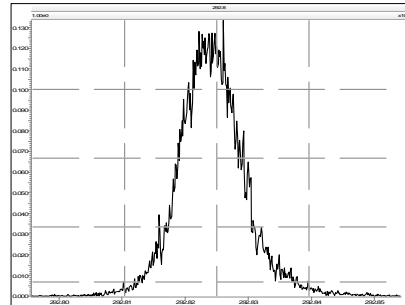
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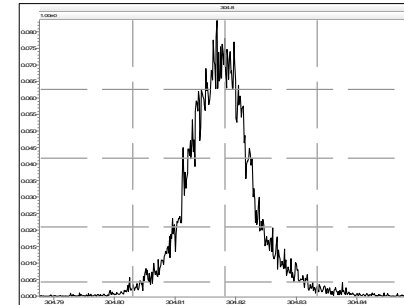
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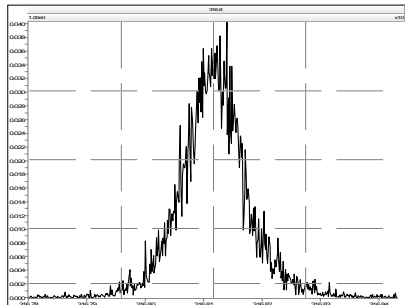
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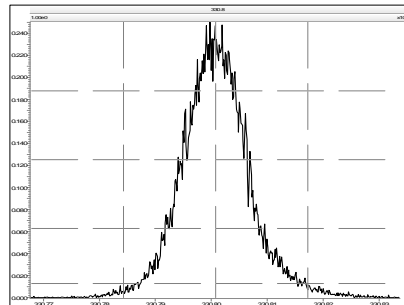
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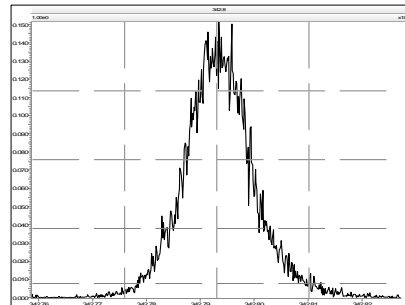
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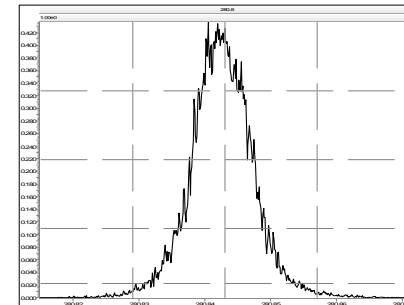
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M 342.9792 R 11238



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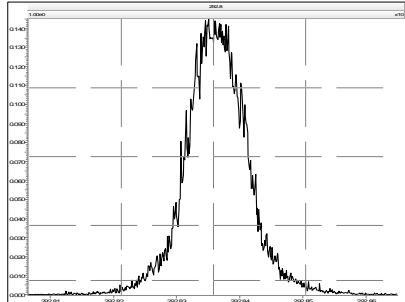


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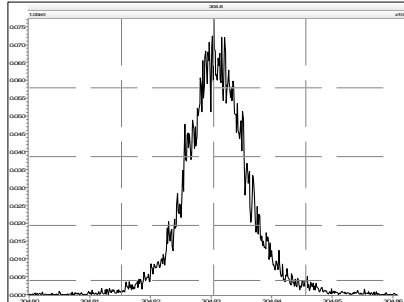
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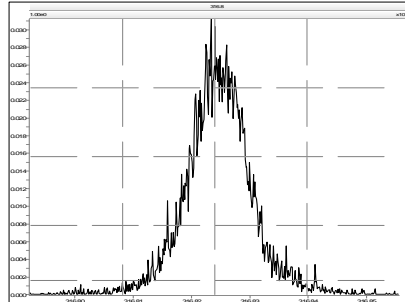
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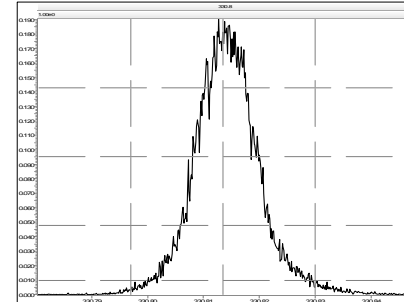
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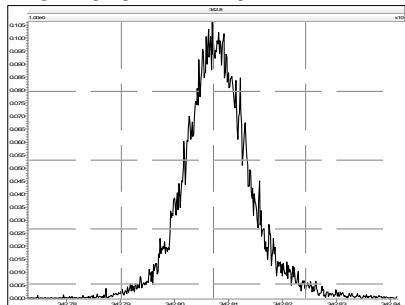
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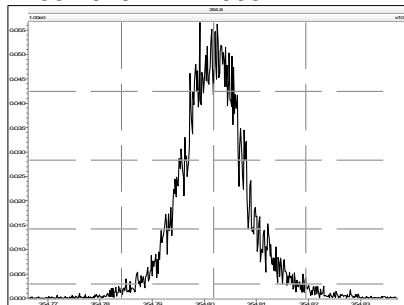
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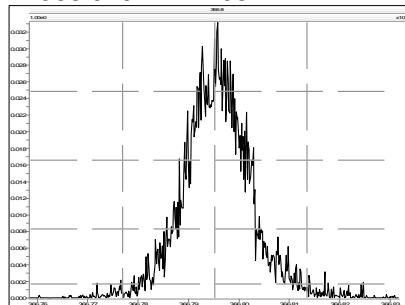
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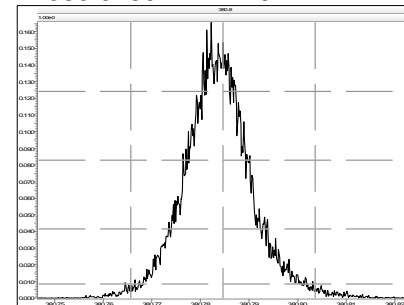
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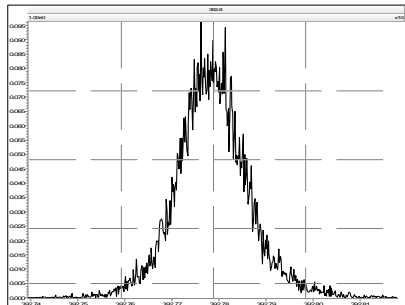
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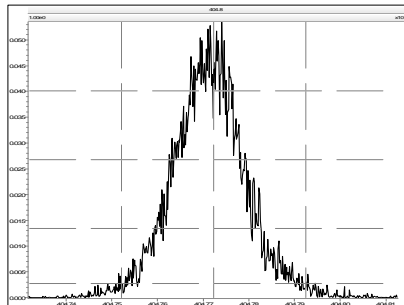
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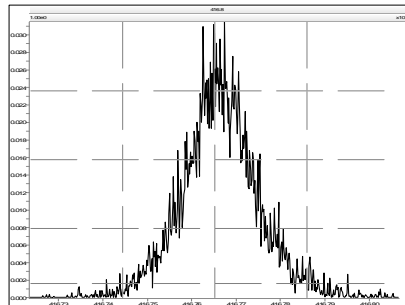
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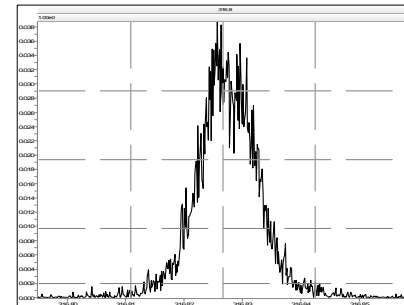
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M 416.9760 R 12270



M 316.9824 R 13706



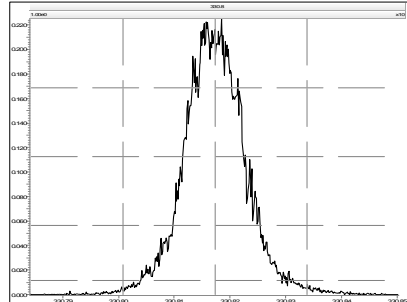
Resolution Check Report

MassLynx 4.1

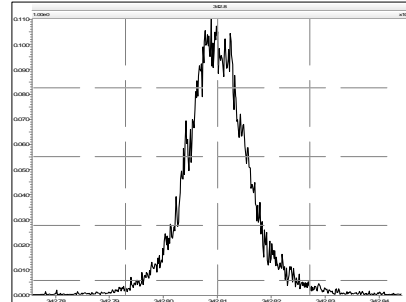
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Printed: Thursday, October 03, 2013 06:54:34 Eastern Daylight Time

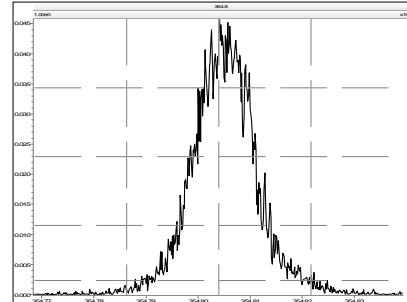
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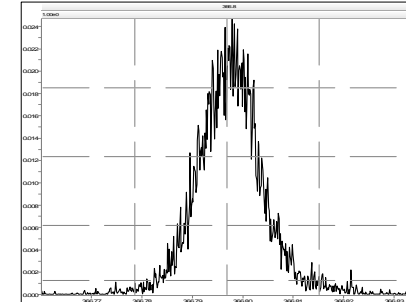
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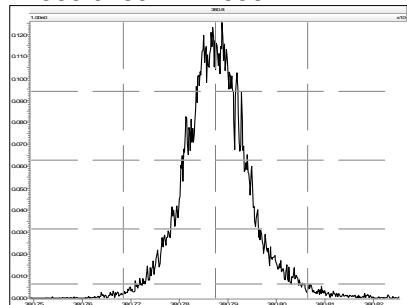
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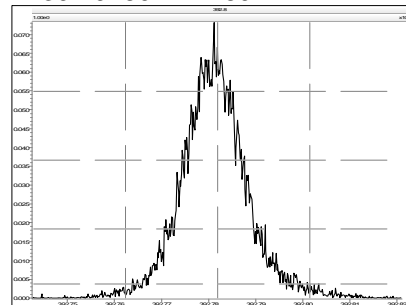
M 366.9792 R 13405



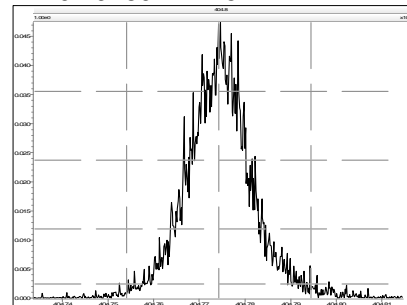
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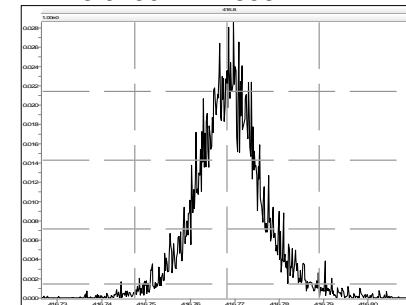
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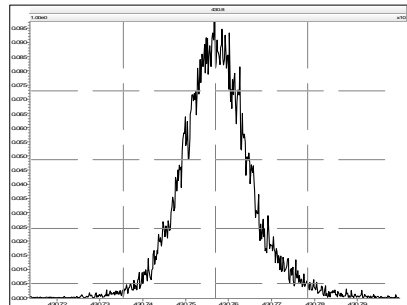
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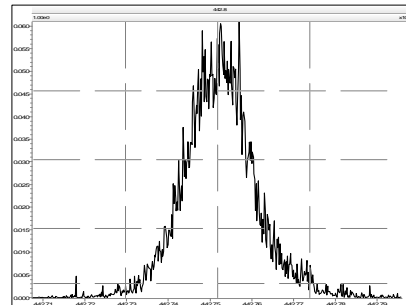
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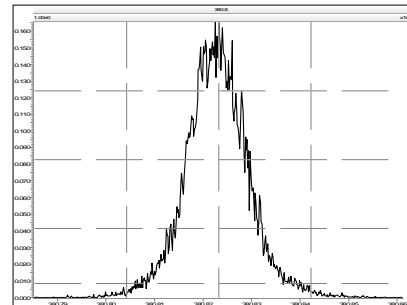
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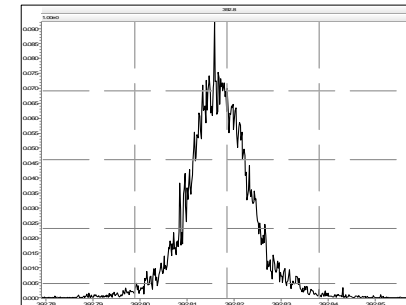
M 442.9728 R 11524



M 380.9760 R 12626



M 392.9760 R 12934



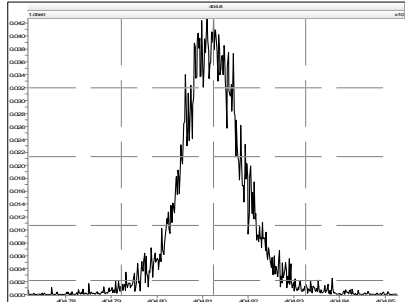
Resolution Check Report

MassLynx 4.1

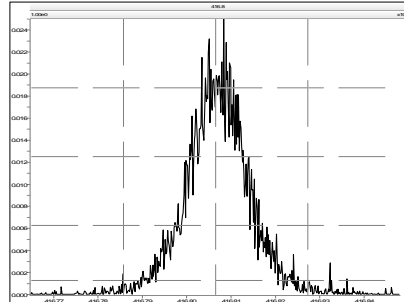
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Printed: Thursday, October 03, 2013 06:54:34 Eastern Daylight Time

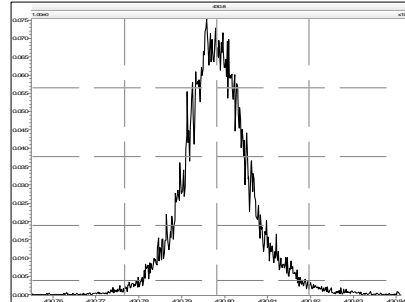
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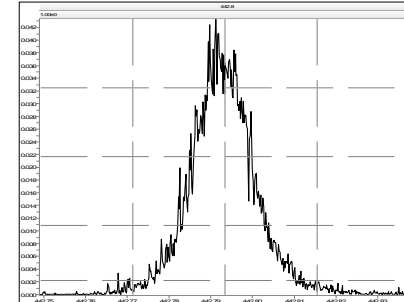
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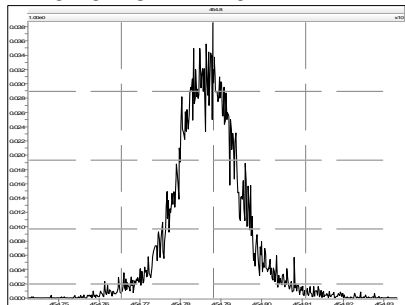
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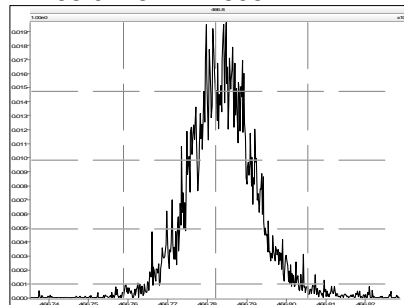
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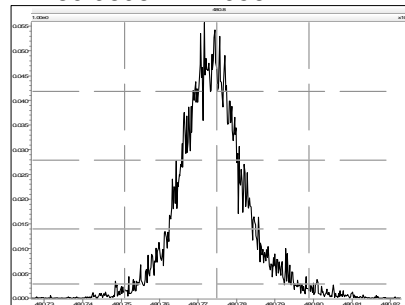
M 454.9728 R 12297



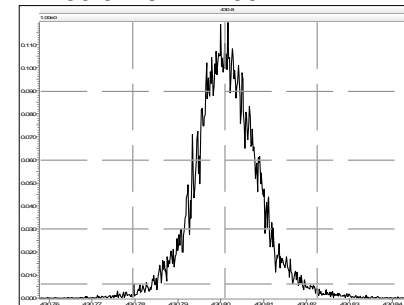
M 466.9728 R 12698



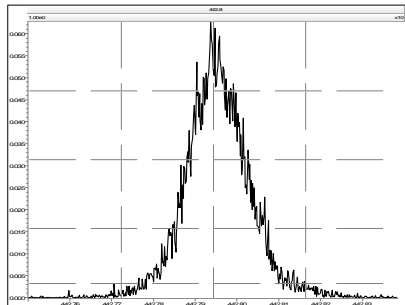
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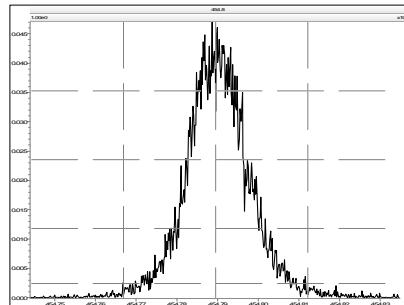
M 430.9728 R 12502



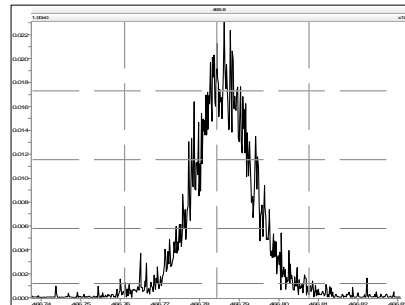
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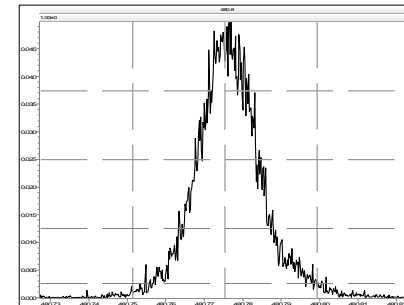
M 454.9728 R 13056



M 466.9728 R 14166



M 480.9696 R 12026



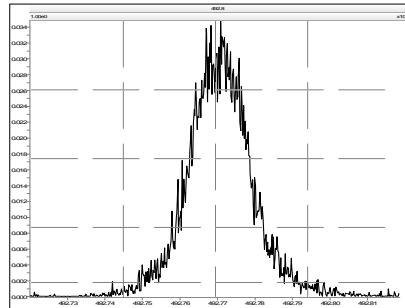
Resolution Check Report

MassLynx 4.1

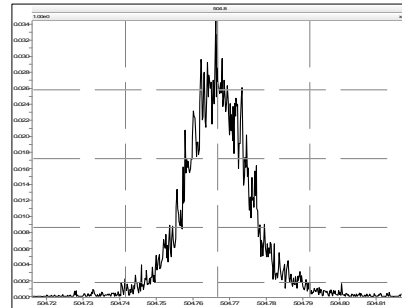
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Printed: Thursday, October 03, 2013 06:54:34 Eastern Daylight Time

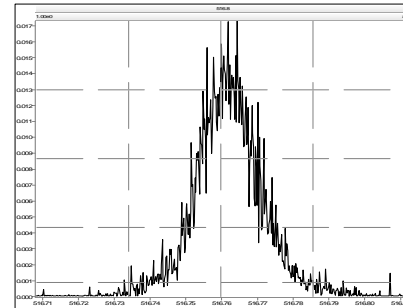
M 492.9696 R 12628



M 504.9696 R 12965



M 516.9697 R 13774



PCB ICAL Summary			SGS Analytical Perspectives						Printed: 25 Sep 2013 12:05	
ICAL: MM4_PCB_07122013_11SEP2013			130911S03	130911S04	130911S05	130911S06	130911S07	130911S08		
Acquired: 11 Sep 2013			0.5	1	5	50	400	2000		
Date Processed: 12 Sep 2013 14:26			CS0	CS1	CS2	CS3	CS4	CS5		
Name	Mean	% RSD	CS0	CS1	CS2	CS3	CS4	CS5		
PCB-77 33'44'-TeCB	1.51	4.5%	1.48	1.48	1.41	1.53	1.60	1.57		
PCB-81 344'5'-TeCB	1.27	7.9%	1.11	1.25	1.21	1.33	1.39	1.33		
PCB-105 233'44'-PeCB	1.00	6.9%	0.92	0.98	0.92	1.02	1.08	1.05		
PCB-114 2344'5'-PeCB	1.06	6.1%	1.00	1.05	0.98	1.08	1.15	1.11		
PCB-118 23'44'5'-PeCB	1.01	7.4%	0.93	0.96	0.94	1.06	1.09	1.08		
PCB-123 23'44'5'-PeCB	1.06	3.3%	1.06	1.01	1.04	1.07	1.11	1.07		
PCB-126 33'44'5'-PeCB	1.26	5.5%	1.26	1.17	1.20	1.27	1.35	1.31		
PCB-156/157 ...-HxCB	1.06	6.9%	0.98	1.05	0.99	1.09	1.15	1.13		
PCB-167 23'44'55'-HxCB	1.12	5.2%	1.10	1.07	1.05	1.13	1.21	1.15		
PCB-169 33'44'55'-HxCB	1.09	4.9%	1.07	1.04	1.02	1.11	1.16	1.13		
PCB-189 233'44'55'-HpCB	1.15	5.8%	1.09	1.13	1.07	1.19	1.24	1.19		
PCB-209 DeCB	1.03	4.3%	1.02	1.04	0.96	1.04	1.09	1.06		
ES PCB-1	1.04	1.2%	1.02	1.04	1.05	1.06	1.04	1.04		
ES PCB-3	0.99	1.5%	0.98	0.97	0.98	1.00	1.00	1.01		
ES PCB-4	0.71	1.5%	0.72	0.72	0.70	0.71	0.71	0.70		
ES PCB-15	1.09	2.2%	1.08	1.07	1.07	1.09	1.10	1.13		
ES PCB-19	0.59	1.4%	0.60	0.59	0.59	0.59	0.59	0.58		
ES PCB-37	1.32	3.4%	1.25	1.29	1.32	1.35	1.32	1.38		
ES PCB-54	1.35	2.3%	1.39	1.39	1.35	1.32	1.33	1.32		
ES PCB-77	1.07	2.7%	1.02	1.05	1.08	1.09	1.07	1.10		
ES PCB-81	1.19	3.5%	1.13	1.16	1.20	1.20	1.20	1.25		
ES PCB-104	1.62	6.3%	1.80	1.66	1.59	1.60	1.54	1.52		
ES PCB-105	1.30	2.7%	1.29	1.33	1.33	1.34	1.26	1.27		
ES PCB-114	1.32	2.8%	1.30	1.35	1.36	1.35	1.27	1.28		
ES PCB-118	1.30	2.4%	1.29	1.33	1.34	1.33	1.28	1.26		
ES PCB-123	1.26	1.5%	1.24	1.27	1.29	1.27	1.24	1.26		
ES PCB-126	1.41	1.9%	1.38	1.43	1.42	1.43	1.37	1.41		
ES PCB-153	1.15	1.6%	1.14	1.16	1.16	1.14	1.14	1.18		
ES PCB-155	1.53	0.8%	1.53	1.55	1.54	1.51	1.53	1.54		
ES PCB-156/157	1.19	3.7%	1.11	1.17	1.19	1.22	1.20	1.23		
ES PCB-167	1.22	3.7%	1.15	1.21	1.23	1.25	1.23	1.28		
ES PCB-169	1.18	4.2%	1.09	1.17	1.19	1.21	1.20	1.24		
ES PCB-170	1.22	1.1%	1.22	1.23	1.20	1.23	1.21	1.24		
ES PCB-180	1.41	2.2%	1.40	1.44	1.37	1.41	1.38	1.44		
ES PCB-188	1.71	1.3%	1.74	1.73	1.68	1.69	1.71	1.70		
ES PCB-189	1.84	1.8%	1.80	1.85	1.82	1.85	1.82	1.89		
ES PCB-202	1.42	0.8%	1.41	1.43	1.40	1.41	1.42	1.42		
ES PCB-205	1.25	1.8%	1.22	1.27	1.25	1.28	1.24	1.26		
ES PCB-206	1.24	1.6%	1.22	1.27	1.24	1.25	1.21	1.24		

APPROVED

By Jeremy Kadylak at 3:34 pm, Sep 25, 2013

PCB ICAL Summary

SGS Analytical Perspectives

Printed: 25 Sep 2013 12:05

ICAL: MM4_PCB_07122013_11SEP2013

Acquired: 11 Sep 2013

Name	Mean	% RSD	130911S03	130911S04	130911S05	130911S06	130911S07	130911S08
			0.5	1	5	50	400	2000
			CS0	CS1	CS2	CS3	CS4	CS5
ES PCB-208	1.42	1.6%	1.41	1.44	1.42	1.45	1.39	1.41
ES PCB-209	1.23	1.5%	1.21	1.25	1.24	1.26	1.22	1.23
SS PCB-28	1.06	1.8%	1.05	1.08	1.09	1.04	1.06	1.06
SS PCB-111	1.06	1.9%	1.09	1.07	1.07	1.05	1.04	1.04
SS PCB-178	0.58	1.7%	0.58	0.59	0.59	0.59	0.56	0.58
CS PCB-28	1.40	3.5%	1.32	1.39	1.44	1.40	1.40	1.46
CS PCB-111	1.34	2.5%	1.35	1.36	1.38	1.34	1.28	1.31
CS PCB-178	0.99	1.9%	1.01	1.02	0.99	1.00	0.96	0.99
PCB-1 2-MoCB	1.20	4.9%	1.15	1.19	1.12	1.19	1.27	1.25
PCB-3 4-MoCB	1.24	4.9%	1.16	1.25	1.17	1.26	1.31	1.28
PCB-4 22'-DiCB	0.97	4.4%	0.95	0.98	0.90	0.97	1.02	1.01
PCB-15 44'-DiCB	1.23	2.9%	1.21	1.25	1.18	1.22	1.29	1.23
PCB-19 22'6-TrCB	0.97	6.8%	0.90	1.02	0.87	0.97	1.03	1.02
PCB-37 344'-TrCB	1.28	7.6%	1.13	1.27	1.23	1.31	1.40	1.36
PCB-54 22'66'-TeCB	1.00	6.0%	0.93	0.98	0.94	1.03	1.07	1.05
PCB-104 22'466'-PeCB	1.06	5.5%	0.97	1.05	1.01	1.07	1.13	1.10
PCB-153/168 ...-HxCB	1.26	5.3%	1.18	1.24	1.18	1.30	1.33	1.31
PCB-155 22'44'66'-HxCB	1.12	6.8%	1.02	1.10	1.06	1.17	1.21	1.18
PCB-170 22'33'44'5'-HpCB	1.01	5.9%	0.93	1.01	0.94	1.03	1.07	1.06
PCB-180/193 ...-HpCB	1.11	4.8%	1.06	1.09	1.05	1.13	1.19	1.15
PCB-188 22'34'566'-HpCB	0.97	5.3%	0.90	0.97	0.91	1.00	1.02	1.01
PCB-202 22'33'55'66'-OcCB	0.83	7.3%	0.73	0.83	0.80	0.87	0.88	0.88
PCB-205 233'44'55'6'-OcCB	1.08	6.5%	1.07	1.00	1.00	1.10	1.17	1.14
PCB-208 22'33'455'66'-NoCB	0.99	5.3%	1.01	0.98	0.90	0.99	1.05	1.03
PCB-206 22'33'44'55'6'-NoCB	0.83	4.9%	0.81	0.82	0.77	0.84	0.88	0.86

PCB ICAL Summary - Ax2 Detail

SGS Analytical Perspectives

Printed: 25 Sep 2013 12:05

ICAL: MM4_PCB_07122013_11SEP2013

Acquired: 11 Sep 2013

Name	Mean	% RSD	0.5 CS0	1 CS1	5 CS2	50 CS3	400 CS4	2000 CS5
PCB-1 2-MoCB	1.20	4.9%	1.15	1.19	1.12	1.19	1.27	1.25
PCB-2 3-MoCB	1.25	4.8%	1.17	1.24	1.19	1.27	1.32	1.29
PCB-3 4-MoCB	1.24	4.9%	1.16	1.25	1.17	1.26	1.31	1.28
PCB-4 22'-DiCB	0.97	4.4%	0.95	0.98	0.90	0.97	1.02	1.01
PCB-10 26-DiCB	1.51	3.5%	1.48	1.50	1.44	1.50	1.58	1.56
PCB-9 25-DiCB	1.06	4.2%	1.04	1.11	0.99	1.07	1.09	1.05
PCB-7 24-DiCB	1.23	2.9%	1.27	1.25	1.18	1.24	1.26	1.20
PCB-6 23'-DiCB	1.14	2.1%	1.14	1.13	1.11	1.15	1.18	1.11
PCB-5 23-DiCB	1.15	5.3%	1.05	1.24	1.14	1.16	1.17	1.13
PCB-8 24'-DiCB	1.18	4.9%	1.08	1.26	1.18	1.18	1.20	1.16
PCB-14 35-DiCB	1.31	7.5%	1.12	1.38	1.30	1.35	1.39	1.34
PCB-11 33'-DiCB	1.17	3.1%	1.19	1.20	1.11	1.16	1.20	1.16
PCB-13/12 34'/34-DiCB	1.17	4.6%	1.09	1.19	1.11	1.18	1.23	1.18
PCB-15 44'-DiCB	1.23	2.9%	1.21	1.25	1.18	1.22	1.29	1.23
PCB-19 22'6-TrCB	0.97	6.8%	0.90	1.02	0.87	0.97	1.03	1.02
PCB-30/18 246/22'5-TrCB	1.23	8.9%	1.09	1.21	1.14	1.26	1.35	1.36
PCB-17 22'4-TrCB	1.06	8.6%	0.92	1.04	1.00	1.08	1.15	1.16
PCB-27 23'6-TrCB	1.44	9.7%	1.27	1.38	1.31	1.48	1.60	1.59
PCB-24 236-TrCB	1.37	9.5%	1.21	1.31	1.25	1.42	1.52	1.50
PCB-16 22'3-TrCB	0.80	8.3%	0.70	0.78	0.77	0.83	0.88	0.86
PCB-32 24'6-TrCB	1.59	4.3%	1.54	1.58	1.49	1.61	1.68	1.64
PCB-34 23'5'-TrCB	1.26	5.6%	1.20	1.22	1.19	1.29	1.35	1.33
PCB-23 235-TrCB	1.31	6.2%	1.20	1.33	1.22	1.33	1.41	1.36
PCB-26/29 23'5/245-TrCB	1.33	5.8%	1.26	1.31	1.24	1.35	1.43	1.41
PCB-25 23'4-TrCB	1.33	6.7%	1.20	1.31	1.26	1.36	1.44	1.40
PCB-31 24'5-TrCB	1.39	5.2%	1.29	1.40	1.31	1.40	1.48	1.43
PCB-28/20 244'/233'-TrCB	1.30	6.5%	1.17	1.31	1.23	1.32	1.40	1.37
PCB-21/33 234/23'4'-TrCB	1.34	7.1%	1.21	1.34	1.26	1.36	1.47	1.41
PCB-22 234'-TrCB	1.22	7.7%	1.06	1.23	1.16	1.25	1.32	1.27
PCB-36 33'5-TrCB	1.35	6.6%	1.22	1.32	1.29	1.38	1.46	1.42
PCB-39 34'5-TrCB	1.40	7.0%	1.27	1.37	1.31	1.42	1.52	1.48
PCB-38 345-TrCB	1.25	8.2%	1.08	1.24	1.21	1.29	1.39	1.30
PCB-35 33'4-TrCB	1.23	6.3%	1.14	1.20	1.16	1.26	1.34	1.29
PCB-37 344'-TrCB	1.28	7.6%	1.13	1.27	1.23	1.31	1.40	1.36
PCB-54 22'66'-TeCB	1.00	6.0%	0.93	0.98	0.94	1.03	1.07	1.05
PCB-50/53 22'46/22'56'-TeCB	0.82	5.2%	0.77	0.81	0.76	0.83	0.87	0.85
PCB-45 22'36'-TeCB	0.73	6.8%	0.69	0.70	0.67	0.78	0.78	0.77
PCB-51 22'46'-TeCB	0.79	8.3%	0.69	0.84	0.76	0.77	0.87	0.82
PCB-46 22'36'-TeCB	0.66	5.3%	0.62	0.68	0.61	0.67	0.70	0.67
PCB-52 22'55'-TeCB	0.79	4.6%	0.74	0.81	0.75	0.81	0.83	0.79

PCB-73 23'56-TeCB	1.06	6.4%	0.97	1.09	1.03	1.06	1.17	1.05
PCB-43 22'35-TeCB	0.64	7.9%	0.65	0.59	0.57	0.67	0.65	0.71
PCB-69/49 23'46/22'45'-TeCB	0.95	5.8%	0.88	0.95	0.88	0.97	1.02	0.99
PCB-48 22'45-TeCB	0.79	5.6%	0.74	0.75	0.75	0.81	0.84	0.82
PCB-44/47/65 ...-TeCB	0.84	5.9%	0.77	0.86	0.79	0.86	0.90	0.87
PCB-59/62/75 ...-TeCB	1.07	6.4%	0.99	1.07	1.01	1.10	1.18	1.10
PCB-42 22'34'-TeCB	0.72	4.2%	0.68	0.71	0.69	0.74	0.76	0.73
PCB-41 22'34-TeCB	0.66	7.0%	0.59	0.64	0.64	0.65	0.72	0.70
PCB-71/40 23'4'6/22'33'-TeCB	0.79	5.7%	0.74	0.78	0.75	0.83	0.85	0.82
PCB-64 234'6-TeCB	1.13	5.7%	1.10	1.07	1.07	1.17	1.22	1.18
PCB-72 23'55'-TeCB	1.31	6.3%	1.23	1.26	1.22	1.37	1.41	1.37
PCB-68 23'45'-TeCB	1.43	6.1%	1.41	1.31	1.35	1.47	1.54	1.48
PCB-57 233'5-TeCB	1.26	5.7%	1.16	1.24	1.20	1.30	1.35	1.31
PCB-58 233'5'-TeCB	1.30	7.3%	1.17	1.31	1.21	1.36	1.43	1.34
PCB-67 23'45-TeCB	1.35	6.3%	1.25	1.28	1.28	1.39	1.46	1.42
PCB-63 234'5-TeCB	1.42	7.0%	1.27	1.43	1.33	1.46	1.54	1.49
PCB-61/70/74/76 ...-TeCB	1.32	6.2%	1.22	1.31	1.24	1.35	1.43	1.37
PCB-66 23'44'-TeCB	1.26	4.8%	1.20	1.27	1.19	1.29	1.35	1.28
PCB-55 233'4-TeCB	1.24	7.2%	1.11	1.19	1.18	1.29	1.34	1.30
PCB-56 233'4'-TeCB	1.22	5.1%	1.14	1.21	1.17	1.25	1.31	1.25
PCB-60 2344'-TeCB	1.29	5.8%	1.18	1.31	1.21	1.31	1.38	1.33
PCB-80 33'55'-TeCB	1.42	8.2%	1.23	1.39	1.35	1.49	1.55	1.50
PCB-79 33'45'-TeCB	1.47	6.2%	1.36	1.45	1.39	1.53	1.61	1.47
PCB-78 33'45-TeCB	1.23	4.9%	1.17	1.27	1.16	1.26	1.30	1.25
PCB-104 22'466'-PeCB	1.06	5.5%	0.97	1.05	1.01	1.07	1.13	1.10
PCB-96 22'366'-PeCB	0.90	8.4%	0.79	0.89	0.84	0.93	1.00	0.96
PCB-103 22'45'6-PeCB	0.84	5.8%	0.82	0.80	0.78	0.87	0.89	0.88
PCB-94 22'356'-PeCB	0.73	4.9%	0.71	0.71	0.68	0.75	0.77	0.76
PCB-95 22'35'6-PeCB	0.78	5.9%	0.73	0.79	0.71	0.80	0.82	0.82
PCB-100/93 22'44'6/22'356-PeCB	0.77	7.2%	0.73	0.72	0.72	0.81	0.85	0.81
PCB-102 22'456'-PeCB	0.83	4.8%	0.78	0.83	0.83	0.81	0.84	0.90
PCB-98 22'34'6'-PeCB	0.75	8.6%	0.71	0.74	0.65	0.81	0.82	0.77
PCB-88 22'346-PeCB	0.74	4.2%	0.72	0.73	0.70	0.74	0.78	0.78
PCB-91 22'34'6-PeCB	0.83	8.4%	0.78	0.80	0.73	0.87	0.92	0.87
PCB-84 22'33'6-PeCB	0.66	4.8%	0.66	0.64	0.61	0.68	0.70	0.68
PCB-89 22'346'-PeCB	0.69	7.1%	0.63	0.69	0.64	0.73	0.74	0.73
PCB-121 23'45'6-PeCB	1.06	6.2%	1.01	1.03	0.97	1.10	1.13	1.12
PCB-92 22'355'-PeCB	0.73	8.2%	0.63	0.73	0.68	0.77	0.79	0.77
PCB-113/90/101 ...-PeCB	0.85	7.1%	0.79	0.82	0.79	0.89	0.93	0.90
PCB-83 22'33'5-PeCB	0.65	8.4%	0.67	0.59	0.58	0.70	0.71	0.63
PCB-99 22'44'5-PeCB	0.84	7.5%	0.80	0.87	0.75	0.84	0.86	0.93
PCB-112 233'56-PeCB	1.00	6.7%	0.91	0.96	0.96	1.04	1.08	1.04
PCB-109/119/86/97/125...-PeCB	0.87	6.2%	0.82	0.85	0.81	0.90	0.94	0.90
PCB-117 234'56-PeCB	0.88	16.4%	0.70	0.76	0.83	1.05	1.05	0.87
PCB-116/85 23456/22'344'-PeCB	0.91	5.9%	0.90	0.92	0.84	0.88	0.94	1.00
PCB-110 233'4'6-PeCB	0.99	4.7%	0.91	0.98	0.99	1.00	1.00	1.06
PCB-115 2344'6-PeCB	1.01	9.3%	0.96	0.99	0.86	1.07	1.13	1.04

PCB-82 22'33'4-PeCB	0.62	7.5%	0.58	0.60	0.57	0.66	0.68	0.66
PCB-111 233'55'-PeCB	1.07	6.1%	1.02	1.05	0.98	1.12	1.15	1.11
PCB-120 23'455'-PeCB	1.07	6.2%	1.05	1.01	0.99	1.12	1.15	1.12
PCB-108/124 ...-PeCB	0.98	6.5%	0.91	0.95	0.91	1.03	1.05	1.04
PCB-107 233'4'5-PeCB	1.07	11.4%	0.86	1.07	1.00	1.14	1.17	1.17
PCB-106 233'45-PeCB	1.00	7.5%	0.96	0.95	0.90	1.06	1.09	1.04
PCB-122 233'4'5'-PeCB	0.89	7.2%	0.81	0.86	0.83	0.92	0.97	0.95
PCB-127 33'455'-PeCB	0.98	7.4%	0.88	0.96	0.93	1.01	1.07	1.05
PCB-155 22'44'66'-HxCB	1.12	6.8%	1.02	1.10	1.06	1.17	1.21	1.18
PCB-152 22'3566'-HxCB	1.05	7.8%	0.97	1.03	0.95	1.09	1.15	1.12
PCB-150 22'34'66'-HxCB	1.07	5.5%	1.04	1.05	0.97	1.10	1.12	1.12
PCB-136 22'33'66'-HxCB	0.99	6.1%	0.94	0.94	0.93	1.01	1.06	1.06
PCB-145 22'3466'-HxCB	1.00	6.9%	0.94	0.96	0.91	1.03	1.07	1.06
PCB-148 22'34'56'-HxCB	1.03	6.2%	0.95	1.03	0.95	1.06	1.11	1.06
PCB-151/135 ...-HxCB	1.00	4.6%	0.99	0.99	0.92	1.02	1.06	1.02
PCB-154 22'44'56'-HxCB	1.13	6.7%	1.07	1.08	1.04	1.16	1.23	1.18
PCB-144 22'345'6-HxCB	1.03	5.0%	1.05	0.99	0.94	1.05	1.09	1.05
PCB-147/149 ...-HxCB	1.03	5.7%	1.03	0.98	0.94	1.05	1.10	1.06
PCB-134 22'33'56'-HxCB	0.84	7.2%	0.81	0.89	0.77	0.79	0.93	0.83
PCB-143 22'3456'-HxCB	0.95	11.0%	0.83	0.84	0.91	1.07	1.00	1.05
PCB-139/140 ...-HxCB	1.05	5.2%	1.01	1.03	0.97	1.07	1.13	1.08
PCB-131 22'33'46-HxCB	0.87	8.5%	0.78	0.83	0.82	0.92	0.96	0.93
PCB-142 22'3456-HxCB	0.91	4.9%	0.88	0.89	0.85	0.92	0.98	0.93
PCB-132 22'33'46'-HxCB	0.92	5.0%	0.90	0.89	0.85	0.94	0.99	0.94
PCB-133 22'33'55'-HxCB	0.97	5.0%	0.97	0.93	0.89	0.99	1.03	0.99
PCB-165 233'55'6-HxCB	1.19	4.6%	1.16	1.19	1.11	1.23	1.27	1.22
PCB-146 22'34'55'-HxCB	1.08	4.7%	1.06	1.09	1.01	1.09	1.16	1.09
PCB-161 233'45'6-HxCB	1.34	6.4%	1.24	1.41	1.23	1.41	1.41	1.37
PCB-153/168 ...-HxCB	1.26	5.3%	1.18	1.24	1.18	1.30	1.33	1.31
PCB-141 22'3455'-HxCB	0.98	5.2%	0.95	0.97	0.91	1.00	1.06	1.00
PCB-130 22'33'45'-HxCB	0.88	5.5%	0.82	0.91	0.81	0.90	0.92	0.89
PCB-137 22'344'5-HxCB	1.07	5.4%	1.07	1.04	0.99	1.07	1.17	1.10
PCB-164 233'4'5'6-HxCB	1.29	5.8%	1.19	1.31	1.21	1.36	1.33	1.35
PCB-163/138/129 ...-HxCB	1.05	6.3%	0.99	1.01	0.97	1.08	1.15	1.08
PCB-160 233'456-HxCB	1.26	8.0%	1.14	1.26	1.13	1.35	1.31	1.34
PCB-158 233'44'6-HxCB	1.40	6.3%	1.28	1.39	1.31	1.46	1.50	1.45
PCB-128/166 ...-HxCB	0.89	6.8%	0.85	0.84	0.81	0.91	0.96	0.94
PCB-159 233'455'-HxCB	1.04	6.6%	0.98	1.00	0.97	1.07	1.14	1.09
PCB-162 233'4'55'-HxCB	1.04	6.9%	1.02	0.95	0.97	1.08	1.12	1.09
PCB-188 22'34'566'-HpCB	0.97	5.3%	0.90	0.97	0.91	1.00	1.02	1.01
PCB-179 22'33'566'-HpCB	0.89	4.5%	0.84	0.88	0.86	0.92	0.94	0.93
PCB-184 22'344'66'-HpCB	0.87	8.1%	0.74	0.90	0.84	0.91	0.93	0.91
PCB-176 22'33'466'-HpCB	0.97	5.0%	0.93	0.93	0.91	0.99	1.02	1.01
PCB-186 22'34566'-HpCB	0.93	4.3%	0.89	0.95	0.88	0.96	0.97	0.96
PCB-178 22'33'55'6-HpCB	0.67	5.5%	0.63	0.69	0.62	0.69	0.70	0.71
PCB-175 22'33'45'6-HpCB	0.97	5.0%	0.93	0.94	0.93	1.00	1.05	1.00
PCB-187 22'34'55'6-HpCB	1.02	4.6%	0.98	0.99	0.97	1.04	1.09	1.05

PCB-182 22'344'56'-HpCB	1.05	4.4%	1.07	0.98	1.01	1.06	1.11	1.07
PCB-183 22'344'5'6'-HpCB	1.07	8.1%	1.10	0.94	1.03	1.05	1.20	1.09
PCB-185 22'3455'6'-HpCB	0.96	7.1%	0.90	0.92	0.88	1.03	0.97	1.04
PCB-174 22'33'456'-HpCB	0.86	8.2%	0.74	0.84	0.83	0.88	0.95	0.89
PCB-177 22'33'45'6'-HpCB	0.83	8.1%	0.74	0.79	0.79	0.87	0.91	0.89
PCB-181 22'344'56'-HpCB	1.00	5.6%	0.94	0.97	0.94	1.01	1.07	1.05
PCB-171/173 ...-HpCB	0.86	5.9%	0.83	0.83	0.80	0.88	0.93	0.90
PCB-172 22'33'455'-HpCB	0.87	7.5%	0.80	0.83	0.81	0.92	0.96	0.92
PCB-192 233'455'6'-HpCB	1.19	5.2%	1.14	1.17	1.10	1.22	1.27	1.22
PCB-180/193 ...-HpCB	1.11	4.8%	1.06	1.09	1.05	1.13	1.19	1.15
PCB-191 233'44'5'6'-HpCB	1.23	5.5%	1.13	1.26	1.18	1.26	1.32	1.26
PCB-170 22'33'44'5'-HpCB	1.01	5.9%	0.93	1.01	0.94	1.03	1.07	1.06
PCB-190 233'44'56'-HpCB	1.42	4.8%	1.39	1.40	1.31	1.43	1.49	1.48
PCB-202 22'33'55'66'-OcCB	0.83	7.3%	0.73	0.83	0.80	0.87	0.88	0.88
PCB-201 22'33'45'66'-OcCB	0.94	4.3%	0.89	0.95	0.90	0.96	0.99	0.98
PCB-204 22'344'566'-OcCB	0.87	6.9%	0.80	0.83	0.83	0.91	0.94	0.92
PCB-197 22'33'44'66'-OcCB	0.97	2.9%	0.96	0.97	0.94	0.99	0.97	1.02
PCB-200 22'33'4566'-OcCB	0.89	10.9%	0.74	0.92	0.80	0.95	1.00	0.92
PCB-198/199 ...-OcCB	0.66	5.8%	0.62	0.64	0.61	0.68	0.69	0.69
PCB-196 22'33'44'56'-OcCB	0.70	3.1%	0.69	0.70	0.67	0.72	0.73	0.71
PCB-203 22'344'55'6'-OcCB	0.74	3.2%	0.73	0.74	0.69	0.75	0.76	0.75
PCB-195 22'33'44'56'-OcCB	0.78	5.9%	0.75	0.77	0.71	0.79	0.84	0.82
PCB-194 22'33'44'55'-OcCB	0.85	6.4%	0.83	0.83	0.76	0.86	0.91	0.89
PCB-205 233'44'55'6'-OcCB	1.08	6.5%	1.07	1.00	1.00	1.10	1.17	1.14
PCB-208 22'33'455'66'-NoCB	0.99	5.3%	1.01	0.98	0.90	0.99	1.05	1.03
PCB-207 22'33'44'566'-NoCB	1.03	5.6%	1.02	0.98	0.94	1.03	1.10	1.07
PCB-206 22'33'44'55'6'-NoCB	0.83	4.9%	0.81	0.82	0.77	0.84	0.88	0.86

PCB ICAL Summary - Ax2 Detail

SGS Analytical Perspectives

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ICAL: MM4_PCB_07122013_11SEP2013

Acquired: 11 Sep 2013

Name	Mean	% RSD	0.5	1	5	50	400	2000
			CS0	CS1	CS2	CS3	CS4	CS5
PCB-1 2-MoCB	1.20	4.9%	1.15	1.19	1.12	1.19	1.27	1.25
PCB-2 3-MoCB	1.25	4.8%	1.17	1.24	1.19	1.27	1.32	1.29
PCB-3 4-MoCB	1.24	4.9%	1.16	1.25	1.17	1.26	1.31	1.28
PCB-4 22'-DiCB	0.97	4.4%	0.95	0.98	0.90	0.97	1.02	1.01
PCB-10 26-DiCB	1.51	3.5%	1.48	1.50	1.44	1.50	1.58	1.56
PCB-9 25-DiCB	1.06	4.2%	1.04	1.11	0.99	1.07	1.09	1.05
PCB-7 24-DiCB	1.23	2.9%	1.27	1.25	1.18	1.24	1.26	1.20
PCB-6 23'-DiCB	1.14	2.1%	1.14	1.13	1.11	1.15	1.18	1.11
PCB-5 23-DiCB	1.15	5.3%	1.05	1.24	1.14	1.16	1.17	1.13
PCB-8 24'-DiCB	1.18	4.9%	1.08	1.26	1.18	1.18	1.20	1.16
PCB-14 35-DiCB	1.31	7.5%	1.12	1.38	1.30	1.35	1.39	1.34
PCB-11 33'-DiCB	1.17	3.1%	1.19	1.20	1.11	1.16	1.20	1.16
PCB-13/12 34'/34-DiCB	1.17	4.6%	1.09	1.19	1.11	1.18	1.23	1.18
PCB-15 44'-DiCB	1.23	2.9%	1.21	1.25	1.18	1.22	1.29	1.23
PCB-19 22'6-TrCB	0.97	6.8%	0.90	1.02	0.87	0.97	1.03	1.02
PCB-30/18 246/22'5-TrCB	1.23	8.9%	1.09	1.21	1.14	1.26	1.35	1.36
PCB-17 22'4-TrCB	1.06	8.6%	0.92	1.04	1.00	1.08	1.15	1.16
PCB-27 23'6-TrCB	1.44	9.7%	1.27	1.38	1.31	1.48	1.60	1.59
PCB-24 236-TrCB	1.37	9.5%	1.21	1.31	1.25	1.42	1.52	1.50
PCB-16 22'3-TrCB	0.80	8.3%	0.70	0.78	0.77	0.83	0.88	0.86
PCB-32 24'6-TrCB	1.59	4.3%	1.54	1.58	1.49	1.61	1.68	1.64
PCB-34 23'5'-TrCB	1.26	5.6%	1.20	1.22	1.19	1.29	1.35	1.33
PCB-23 235-TrCB	1.31	6.2%	1.20	1.33	1.22	1.33	1.41	1.36
PCB-26/29 23'5/245-TrCB	1.33	5.8%	1.26	1.31	1.24	1.35	1.43	1.41
PCB-25 23'4-TrCB	1.33	6.7%	1.20	1.31	1.26	1.36	1.44	1.40
PCB-31 24'5-TrCB	1.39	5.2%	1.29	1.40	1.31	1.40	1.48	1.43
PCB-28/20 244'/233'-TrCB	1.30	6.5%	1.17	1.31	1.23	1.32	1.40	1.37
PCB-21/33 234/23'4'-TrCB	1.34	7.1%	1.21	1.34	1.26	1.36	1.47	1.41
PCB-22 234'-TrCB	1.22	7.7%	1.06	1.23	1.16	1.25	1.32	1.27
PCB-36 33'5-TrCB	1.35	6.6%	1.22	1.32	1.29	1.38	1.46	1.42
PCB-39 34'5-TrCB	1.40	7.0%	1.27	1.37	1.31	1.42	1.52	1.48
PCB-38 345-TrCB	1.25	8.2%	1.08	1.24	1.21	1.29	1.39	1.30
PCB-35 33'4-TrCB	1.23	6.3%	1.14	1.20	1.16	1.26	1.34	1.29
PCB-37 344'-TrCB	1.28	7.6%	1.13	1.27	1.23	1.31	1.40	1.36
PCB-54 22'66'-TeCB	1.00	6.0%	0.93	0.98	0.94	1.03	1.07	1.05
PCB-50/53 22'46/22'56'-TeCB	0.82	5.2%	0.77	0.81	0.76	0.83	0.87	0.85
PCB-45 22'36'-TeCB	0.73	6.8%	0.69	0.70	0.67	0.78	0.78	0.77
PCB-51 22'46'-TeCB	0.79	8.3%	0.69	0.84	0.76	0.77	0.87	0.82
PCB-46 22'36'-TeCB	0.66	5.3%	0.62	0.68	0.61	0.67	0.70	0.67
PCB-52 22'55'-TeCB	0.79	4.6%	0.74	0.81	0.75	0.81	0.83	0.79

PCB-73 23'56'-TeCB	1.06	6.4%	0.97	1.09	1.03	1.06	1.17	1.05
PCB-43 22'35'-TeCB	0.64	7.9%	0.65	0.59	0.57	0.67	0.65	0.71
PCB-69/49 23'46'/22'45'-TeCB	0.95	5.8%	0.88	0.95	0.88	0.97	1.02	0.99
PCB-48 22'45'-TeCB	0.79	5.6%	0.74	0.75	0.75	0.81	0.84	0.82
PCB-44/47/65 ...-TeCB	0.84	5.9%	0.77	0.86	0.79	0.86	0.90	0.87
PCB-59/62/75 ...-TeCB	1.07	6.4%	0.99	1.07	1.01	1.10	1.18	1.10
PCB-42 22'34'-TeCB	0.72	4.2%	0.68	0.71	0.69	0.74	0.76	0.73
PCB-41 22'34'-TeCB	0.66	7.0%	0.59	0.64	0.64	0.65	0.72	0.70
PCB-71/40 23'4'6'/22'33'-TeCB	0.79	5.7%	0.74	0.78	0.75	0.83	0.85	0.82
PCB-64 234'6'-TeCB	1.13	5.7%	1.10	1.07	1.07	1.17	1.22	1.18
PCB-72 23'55'-TeCB	1.31	6.3%	1.23	1.26	1.22	1.37	1.41	1.37
PCB-68 23'45'-TeCB	1.43	6.1%	1.41	1.31	1.35	1.47	1.54	1.48
PCB-57 233'5'-TeCB	1.26	5.7%	1.16	1.24	1.20	1.30	1.35	1.31
PCB-58 233'5'-TeCB	1.30	7.3%	1.17	1.31	1.21	1.36	1.43	1.34
PCB-67 23'45'-TeCB	1.35	6.3%	1.25	1.28	1.28	1.39	1.46	1.42
PCB-63 234'5'-TeCB	1.42	7.0%	1.27	1.43	1.33	1.46	1.54	1.49
PCB-61/70/74/76 ...-TeCB	1.32	6.2%	1.22	1.31	1.24	1.35	1.43	1.37
PCB-66 23'44'-TeCB	1.26	4.8%	1.20	1.27	1.19	1.29	1.35	1.28
PCB-55 233'4'-TeCB	1.24	7.2%	1.11	1.19	1.18	1.29	1.34	1.30
PCB-56 233'4'-TeCB	1.22	5.1%	1.14	1.21	1.17	1.25	1.31	1.25
PCB-60 2344'-TeCB	1.29	5.8%	1.18	1.31	1.21	1.31	1.38	1.33
PCB-80 33'55'-TeCB	1.42	8.2%	1.23	1.39	1.35	1.49	1.55	1.50
PCB-79 33'45'-TeCB	1.47	6.2%	1.36	1.45	1.39	1.53	1.61	1.47
PCB-78 33'45'-TeCB	1.23	4.9%	1.17	1.27	1.16	1.26	1.30	1.25
PCB-104 22'466'-PeCB	1.06	5.5%	0.97	1.05	1.01	1.07	1.13	1.10
PCB-96 22'366'-PeCB	0.90	8.4%	0.79	0.89	0.84	0.93	1.00	0.96
PCB-103 22'45'6'-PeCB	0.84	5.8%	0.82	0.80	0.78	0.87	0.89	0.88
PCB-94 22'356'-PeCB	0.73	4.9%	0.71	0.71	0.68	0.75	0.77	0.76
PCB-95 22'35'6'-PeCB	0.78	5.9%	0.73	0.79	0.71	0.80	0.82	0.82
PCB-100/93 22'44'6'/22'356'-PeCB	0.77	7.2%	0.73	0.72	0.72	0.81	0.85	0.81
PCB-102 22'456'-PeCB	0.83	4.8%	0.78	0.83	0.83	0.81	0.84	0.90
PCB-98 22'34'6'-PeCB	0.75	8.6%	0.71	0.74	0.65	0.81	0.82	0.77
PCB-88 22'346'-PeCB	0.74	4.2%	0.72	0.73	0.70	0.74	0.78	0.78
PCB-91 22'34'6'-PeCB	0.83	8.4%	0.78	0.80	0.73	0.87	0.92	0.87
PCB-84 22'33'6'-PeCB	0.66	4.8%	0.66	0.64	0.61	0.68	0.70	0.68
PCB-89 22'346'-PeCB	0.69	7.1%	0.63	0.69	0.64	0.73	0.74	0.73
PCB-121 23'45'6'-PeCB	1.06	6.2%	1.01	1.03	0.97	1.10	1.13	1.12
PCB-92 22'355'-PeCB	0.73	8.2%	0.63	0.73	0.68	0.77	0.79	0.77
PCB-113/90/101 ...-PeCB	0.85	7.1%	0.79	0.82	0.79	0.89	0.93	0.90
PCB-83 22'33'5'-PeCB	0.65	8.4%	0.67	0.59	0.58	0.70	0.71	0.63
PCB-99 22'44'5'-PeCB	0.84	7.5%	0.80	0.87	0.75	0.84	0.86	0.93
PCB-112 233'56'-PeCB	1.00	6.7%	0.91	0.96	0.96	1.04	1.08	1.04
PCB-109/119/86/97/125...-PeCB	0.87	6.2%	0.82	0.85	0.81	0.90	0.94	0.90
PCB-117 234'56'-PeCB	0.88	16.4%	0.70	0.76	0.83	1.05	1.05	0.87
PCB-116/85 23456/22'344'-PeCB	0.91	5.9%	0.90	0.92	0.84	0.88	0.94	1.00
PCB-110 233'4'6'-PeCB	0.99	4.7%	0.91	0.98	0.99	1.00	1.00	1.06
PCB-115 2344'6'-PeCB	1.01	9.3%	0.96	0.99	0.86	1.07	1.13	1.04

PCB-82 22'33'4-PeCB	0.62	7.5%	0.58	0.60	0.57	0.66	0.68	0.66
PCB-111 233'55'-PeCB	1.07	6.1%	1.02	1.05	0.98	1.12	1.15	1.11
PCB-120 23'455'-PeCB	1.07	6.2%	1.05	1.01	0.99	1.12	1.15	1.12
PCB-108/124 ...-PeCB	0.98	6.5%	0.91	0.95	0.91	1.03	1.05	1.04
PCB-107 233'4'5-PeCB	1.07	11.4%	0.86	1.07	1.00	1.14	1.17	1.17
PCB-106 233'45-PeCB	1.00	7.5%	0.96	0.95	0.90	1.06	1.09	1.04
PCB-122 233'4'5'-PeCB	0.89	7.2%	0.81	0.86	0.83	0.92	0.97	0.95
PCB-127 33'455'-PeCB	0.98	7.4%	0.88	0.96	0.93	1.01	1.07	1.05
PCB-155 22'44'66'-HxCB	1.12	6.8%	1.02	1.10	1.06	1.17	1.21	1.18
PCB-152 22'3566'-HxCB	1.05	7.8%	0.97	1.03	0.95	1.09	1.15	1.12
PCB-150 22'34'66'-HxCB	1.07	5.5%	1.04	1.05	0.97	1.10	1.12	1.12
PCB-136 22'33'66'-HxCB	0.99	6.1%	0.94	0.94	0.93	1.01	1.06	1.06
PCB-145 22'3466'-HxCB	1.00	6.9%	0.94	0.96	0.91	1.03	1.07	1.06
PCB-148 22'34'56'-HxCB	1.03	6.2%	0.95	1.03	0.95	1.06	1.11	1.06
PCB-151/135 ...-HxCB	1.00	4.6%	0.99	0.99	0.92	1.02	1.06	1.02
PCB-154 22'44'56'-HxCB	1.13	6.7%	1.07	1.08	1.04	1.16	1.23	1.18
PCB-144 22'345'6-HxCB	1.03	5.0%	1.05	0.99	0.94	1.05	1.09	1.05
PCB-147/149 ...-HxCB	1.03	5.7%	1.03	0.98	0.94	1.05	1.10	1.06
PCB-134 22'33'56'-HxCB	0.84	7.2%	0.81	0.89	0.77	0.79	0.93	0.83
PCB-143 22'3456'-HxCB	0.95	11.0%	0.83	0.84	0.91	1.07	1.00	1.05
PCB-139/140 ...-HxCB	1.05	5.2%	1.01	1.03	0.97	1.07	1.13	1.08
PCB-131 22'33'46-HxCB	0.87	8.5%	0.78	0.83	0.82	0.92	0.96	0.93
PCB-142 22'3456-HxCB	0.91	4.9%	0.88	0.89	0.85	0.92	0.98	0.93
PCB-132 22'33'46'-HxCB	0.92	5.0%	0.90	0.89	0.85	0.94	0.99	0.94
PCB-133 22'33'55'-HxCB	0.97	5.0%	0.97	0.93	0.89	0.99	1.03	0.99
PCB-165 233'55'6-HxCB	1.19	4.6%	1.16	1.19	1.11	1.23	1.27	1.22
PCB-146 22'34'55'-HxCB	1.08	4.7%	1.06	1.09	1.01	1.09	1.16	1.09
PCB-161 233'45'6-HxCB	1.34	6.4%	1.24	1.41	1.23	1.41	1.41	1.37
PCB-153/168 ...-HxCB	1.26	5.3%	1.18	1.24	1.18	1.30	1.33	1.31
PCB-141 22'3455'-HxCB	0.98	5.2%	0.95	0.97	0.91	1.00	1.06	1.00
PCB-130 22'33'45'-HxCB	0.88	5.5%	0.82	0.91	0.81	0.90	0.92	0.89
PCB-137 22'344'5-HxCB	1.07	5.4%	1.07	1.04	0.99	1.07	1.17	1.10
PCB-164 233'4'5'6-HxCB	1.29	5.8%	1.19	1.31	1.21	1.36	1.33	1.35
PCB-163/138/129 ...-HxCB	1.05	6.3%	0.99	1.01	0.97	1.08	1.15	1.08
PCB-160 233'456-HxCB	1.26	8.0%	1.14	1.26	1.13	1.35	1.31	1.34
PCB-158 233'44'6-HxCB	1.40	6.3%	1.28	1.39	1.31	1.46	1.50	1.45
PCB-128/166 ...-HxCB	0.89	6.8%	0.85	0.84	0.81	0.91	0.96	0.94
PCB-159 233'455'-HxCB	1.04	6.6%	0.98	1.00	0.97	1.07	1.14	1.09
PCB-162 233'4'55'-HxCB	1.04	6.9%	1.02	0.95	0.97	1.08	1.12	1.09
PCB-188 22'34'566'-HpCB	0.97	5.3%	0.90	0.97	0.91	1.00	1.02	1.01
PCB-179 22'33'566'-HpCB	0.89	4.5%	0.84	0.88	0.86	0.92	0.94	0.93
PCB-184 22'344'66'-HpCB	0.87	8.1%	0.74	0.90	0.84	0.91	0.93	0.91
PCB-176 22'33'466'-HpCB	0.97	5.0%	0.93	0.93	0.91	0.99	1.02	1.01
PCB-186 22'34566'-HpCB	0.93	4.3%	0.89	0.95	0.88	0.96	0.97	0.96
PCB-178 22'33'55'6-HpCB	0.67	5.5%	0.63	0.69	0.62	0.69	0.70	0.71
PCB-175 22'33'45'6-HpCB	0.97	5.0%	0.93	0.94	0.93	1.00	1.05	1.00
PCB-187 22'34'55'6-HpCB	1.02	4.6%	0.98	0.99	0.97	1.04	1.09	1.05

PCB-182 22'344'56'-HpCB	1.05	4.4%	1.07	0.98	1.01	1.06	1.11	1.07
PCB-183 22'344'5'6'-HpCB	1.07	8.1%	1.10	0.94	1.03	1.05	1.20	1.09
PCB-185 22'3455'6'-HpCB	0.96	7.1%	0.90	0.92	0.88	1.03	0.97	1.04
PCB-174 22'33'456'-HpCB	0.86	8.2%	0.74	0.84	0.83	0.88	0.95	0.89
PCB-177 22'33'45'6'-HpCB	0.83	8.1%	0.74	0.79	0.79	0.87	0.91	0.89
PCB-181 22'344'56'-HpCB	1.00	5.6%	0.94	0.97	0.94	1.01	1.07	1.05
PCB-171/173 ...-HpCB	0.86	5.9%	0.83	0.83	0.80	0.88	0.93	0.90
PCB-172 22'33'455'-HpCB	0.87	7.5%	0.80	0.83	0.81	0.92	0.96	0.92
PCB-192 233'455'6'-HpCB	1.19	5.2%	1.14	1.17	1.10	1.22	1.27	1.22
PCB-180/193 ...-HpCB	1.11	4.8%	1.06	1.09	1.05	1.13	1.19	1.15
PCB-191 233'44'5'6'-HpCB	1.23	5.5%	1.13	1.26	1.18	1.26	1.32	1.26
PCB-170 22'33'44'5'-HpCB	1.01	5.9%	0.93	1.01	0.94	1.03	1.07	1.06
PCB-190 233'44'56'-HpCB	1.42	4.8%	1.39	1.40	1.31	1.43	1.49	1.48
PCB-202 22'33'55'66'-OcCB	0.83	7.3%	0.73	0.83	0.80	0.87	0.88	0.88
PCB-201 22'33'45'66'-OcCB	0.94	4.3%	0.89	0.95	0.90	0.96	0.99	0.98
PCB-204 22'344'566'-OcCB	0.87	6.9%	0.80	0.83	0.83	0.91	0.94	0.92
PCB-197 22'33'44'66'-OcCB	0.97	2.9%	0.96	0.97	0.94	0.99	0.97	1.02
PCB-200 22'33'4566'-OcCB	0.89	10.9%	0.74	0.92	0.80	0.95	1.00	0.92
PCB-198/199 ...-OcCB	0.66	5.8%	0.62	0.64	0.61	0.68	0.69	0.69
PCB-196 22'33'44'56'-OcCB	0.70	3.1%	0.69	0.70	0.67	0.72	0.73	0.71
PCB-203 22'344'55'6'-OcCB	0.74	3.2%	0.73	0.74	0.69	0.75	0.76	0.75
PCB-195 22'33'44'56'-OcCB	0.78	5.9%	0.75	0.77	0.71	0.79	0.84	0.82
PCB-194 22'33'44'55'-OcCB	0.85	6.4%	0.83	0.83	0.76	0.86	0.91	0.89
PCB-205 233'44'55'6'-OcCB	1.08	6.5%	1.07	1.00	1.00	1.10	1.17	1.14
PCB-208 22'33'455'66'-NoCB	0.99	5.3%	1.01	0.98	0.90	0.99	1.05	1.03
PCB-207 22'33'44'566'-NoCB	1.03	5.6%	1.02	0.98	0.94	1.03	1.10	1.07
PCB-206 22'33'44'55'6'-NoCB	0.83	4.9%	0.81	0.82	0.77	0.84	0.88	0.86

PCB ICAL Summary - Ax2 Detail

SGS Analytical Perspectives

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ICAL: MM4_PCB_07122013_11SEP2013

Acquired: 11 Sep 2013

Name	Mean	% RSD	0.5	1	5	50	400	2000
			CS0	CS1	CS2	CS3	CS4	CS5
PCB-1 2-MoCB	1.20	4.9%	1.15	1.19	1.12	1.19	1.27	1.25
PCB-2 3-MoCB	1.25	4.8%	1.17	1.24	1.19	1.27	1.32	1.29
PCB-3 4-MoCB	1.24	4.9%	1.16	1.25	1.17	1.26	1.31	1.28
PCB-4 22'-DiCB	0.97	4.4%	0.95	0.98	0.90	0.97	1.02	1.01
PCB-10 26-DiCB	1.51	3.5%	1.48	1.50	1.44	1.50	1.58	1.56
PCB-9 25-DiCB	1.06	4.2%	1.04	1.11	0.99	1.07	1.09	1.05
PCB-7 24-DiCB	1.23	2.9%	1.27	1.25	1.18	1.24	1.26	1.20
PCB-6 23'-DiCB	1.14	2.1%	1.14	1.13	1.11	1.15	1.18	1.11
PCB-5 23-DiCB	1.15	5.3%	1.05	1.24	1.14	1.16	1.17	1.13
PCB-8 24'-DiCB	1.18	4.9%	1.08	1.26	1.18	1.18	1.20	1.16
PCB-14 35-DiCB	1.31	7.5%	1.12	1.38	1.30	1.35	1.39	1.34
PCB-11 33'-DiCB	1.17	3.1%	1.19	1.20	1.11	1.16	1.20	1.16
PCB-13/12 34'/34-DiCB	1.17	4.6%	1.09	1.19	1.11	1.18	1.23	1.18
PCB-15 44'-DiCB	1.23	2.9%	1.21	1.25	1.18	1.22	1.29	1.23
PCB-19 22'6-TrCB	0.97	6.8%	0.90	1.02	0.87	0.97	1.03	1.02
PCB-30/18 246/22'5-TrCB	1.23	8.9%	1.09	1.21	1.14	1.26	1.35	1.36
PCB-17 22'4-TrCB	1.06	8.6%	0.92	1.04	1.00	1.08	1.15	1.16
PCB-27 23'6-TrCB	1.44	9.7%	1.27	1.38	1.31	1.48	1.60	1.59
PCB-24 236-TrCB	1.37	9.5%	1.21	1.31	1.25	1.42	1.52	1.50
PCB-16 22'3-TrCB	0.80	8.3%	0.70	0.78	0.77	0.83	0.88	0.86
PCB-32 24'6-TrCB	1.59	4.3%	1.54	1.58	1.49	1.61	1.68	1.64
PCB-34 23'5'-TrCB	1.26	5.6%	1.20	1.22	1.19	1.29	1.35	1.33
PCB-23 235-TrCB	1.31	6.2%	1.20	1.33	1.22	1.33	1.41	1.36
PCB-26/29 23'5/245-TrCB	1.33	5.8%	1.26	1.31	1.24	1.35	1.43	1.41
PCB-25 23'4-TrCB	1.33	6.7%	1.20	1.31	1.26	1.36	1.44	1.40
PCB-31 24'5-TrCB	1.39	5.2%	1.29	1.40	1.31	1.40	1.48	1.43
PCB-28/20 244'/233'-TrCB	1.30	6.5%	1.17	1.31	1.23	1.32	1.40	1.37
PCB-21/33 234/23'4'-TrCB	1.34	7.1%	1.21	1.34	1.26	1.36	1.47	1.41
PCB-22 234'-TrCB	1.22	7.7%	1.06	1.23	1.16	1.25	1.32	1.27
PCB-36 33'5-TrCB	1.35	6.6%	1.22	1.32	1.29	1.38	1.46	1.42
PCB-39 34'5-TrCB	1.40	7.0%	1.27	1.37	1.31	1.42	1.52	1.48
PCB-38 345-TrCB	1.25	8.2%	1.08	1.24	1.21	1.29	1.39	1.30
PCB-35 33'4-TrCB	1.23	6.3%	1.14	1.20	1.16	1.26	1.34	1.29
PCB-37 344'-TrCB	1.28	7.6%	1.13	1.27	1.23	1.31	1.40	1.36
PCB-54 22'66'-TeCB	1.00	6.0%	0.93	0.98	0.94	1.03	1.07	1.05
PCB-50/53 22'46/22'56'-TeCB	0.82	5.2%	0.77	0.81	0.76	0.83	0.87	0.85
PCB-45 22'36'-TeCB	0.73	6.8%	0.69	0.70	0.67	0.78	0.78	0.77
PCB-51 22'46'-TeCB	0.79	8.3%	0.69	0.84	0.76	0.77	0.87	0.82
PCB-46 22'36'-TeCB	0.66	5.3%	0.62	0.68	0.61	0.67	0.70	0.67
PCB-52 22'55'-TeCB	0.79	4.6%	0.74	0.81	0.75	0.81	0.83	0.79

PCB-73 23'56'-TeCB	1.06	6.4%	0.97	1.09	1.03	1.06	1.17	1.05
PCB-43 22'35'-TeCB	0.64	7.9%	0.65	0.59	0.57	0.67	0.65	0.71
PCB-69/49 23'46'/22'45'-TeCB	0.95	5.8%	0.88	0.95	0.88	0.97	1.02	0.99
PCB-48 22'45'-TeCB	0.79	5.6%	0.74	0.75	0.75	0.81	0.84	0.82
PCB-44/47/65 ...-TeCB	0.84	5.9%	0.77	0.86	0.79	0.86	0.90	0.87
PCB-59/62/75 ...-TeCB	1.07	6.4%	0.99	1.07	1.01	1.10	1.18	1.10
PCB-42 22'34'-TeCB	0.72	4.2%	0.68	0.71	0.69	0.74	0.76	0.73
PCB-41 22'34'-TeCB	0.66	7.0%	0.59	0.64	0.64	0.65	0.72	0.70
PCB-71/40 23'4'6'/22'33'-TeCB	0.79	5.7%	0.74	0.78	0.75	0.83	0.85	0.82
PCB-64 234'6'-TeCB	1.13	5.7%	1.10	1.07	1.07	1.17	1.22	1.18
PCB-72 23'55'-TeCB	1.31	6.3%	1.23	1.26	1.22	1.37	1.41	1.37
PCB-68 23'45'-TeCB	1.43	6.1%	1.41	1.31	1.35	1.47	1.54	1.48
PCB-57 233'5'-TeCB	1.26	5.7%	1.16	1.24	1.20	1.30	1.35	1.31
PCB-58 233'5'-TeCB	1.30	7.3%	1.17	1.31	1.21	1.36	1.43	1.34
PCB-67 23'45'-TeCB	1.35	6.3%	1.25	1.28	1.28	1.39	1.46	1.42
PCB-63 234'5'-TeCB	1.42	7.0%	1.27	1.43	1.33	1.46	1.54	1.49
PCB-61/70/74/76 ...-TeCB	1.32	6.2%	1.22	1.31	1.24	1.35	1.43	1.37
PCB-66 23'44'-TeCB	1.26	4.8%	1.20	1.27	1.19	1.29	1.35	1.28
PCB-55 233'4'-TeCB	1.24	7.2%	1.11	1.19	1.18	1.29	1.34	1.30
PCB-56 233'4'-TeCB	1.22	5.1%	1.14	1.21	1.17	1.25	1.31	1.25
PCB-60 2344'-TeCB	1.29	5.8%	1.18	1.31	1.21	1.31	1.38	1.33
PCB-80 33'55'-TeCB	1.42	8.2%	1.23	1.39	1.35	1.49	1.55	1.50
PCB-79 33'45'-TeCB	1.47	6.2%	1.36	1.45	1.39	1.53	1.61	1.47
PCB-78 33'45'-TeCB	1.23	4.9%	1.17	1.27	1.16	1.26	1.30	1.25
PCB-104 22'466'-PeCB	1.06	5.5%	0.97	1.05	1.01	1.07	1.13	1.10
PCB-96 22'366'-PeCB	0.90	8.4%	0.79	0.89	0.84	0.93	1.00	0.96
PCB-103 22'45'6'-PeCB	0.84	5.8%	0.82	0.80	0.78	0.87	0.89	0.88
PCB-94 22'356'-PeCB	0.73	4.9%	0.71	0.71	0.68	0.75	0.77	0.76
PCB-95 22'35'6'-PeCB	0.78	5.9%	0.73	0.79	0.71	0.80	0.82	0.82
PCB-100/93 22'44'6'/22'356'-PeCB	0.77	7.2%	0.73	0.72	0.72	0.81	0.85	0.81
PCB-102 22'456'-PeCB	0.83	4.8%	0.78	0.83	0.83	0.81	0.84	0.90
PCB-98 22'34'6'-PeCB	0.75	8.6%	0.71	0.74	0.65	0.81	0.82	0.77
PCB-88 22'346'-PeCB	0.74	4.2%	0.72	0.73	0.70	0.74	0.78	0.78
PCB-91 22'34'6'-PeCB	0.83	8.4%	0.78	0.80	0.73	0.87	0.92	0.87
PCB-84 22'33'6'-PeCB	0.66	4.8%	0.66	0.64	0.61	0.68	0.70	0.68
PCB-89 22'346'-PeCB	0.69	7.1%	0.63	0.69	0.64	0.73	0.74	0.73
PCB-121 23'45'6'-PeCB	1.06	6.2%	1.01	1.03	0.97	1.10	1.13	1.12
PCB-92 22'355'-PeCB	0.73	8.2%	0.63	0.73	0.68	0.77	0.79	0.77
PCB-113/90/101 ...-PeCB	0.85	7.1%	0.79	0.82	0.79	0.89	0.93	0.90
PCB-83 22'33'5'-PeCB	0.65	8.4%	0.67	0.59	0.58	0.70	0.71	0.63
PCB-99 22'44'5'-PeCB	0.84	7.5%	0.80	0.87	0.75	0.84	0.86	0.93
PCB-112 233'56'-PeCB	1.00	6.7%	0.91	0.96	0.96	1.04	1.08	1.04
PCB-109/119/86/97/125...-PeCB	0.87	6.2%	0.82	0.85	0.81	0.90	0.94	0.90
PCB-117 234'56'-PeCB	0.88	16.4%	0.70	0.76	0.83	1.05	1.05	0.87
PCB-116/85 23456/22'344'-PeCB	0.91	5.9%	0.90	0.92	0.84	0.88	0.94	1.00
PCB-110 233'4'6'-PeCB	0.99	4.7%	0.91	0.98	0.99	1.00	1.00	1.06
PCB-115 2344'6'-PeCB	1.01	9.3%	0.96	0.99	0.86	1.07	1.13	1.04

PCB-82 22'33'4-PeCB	0.62	7.5%	0.58	0.60	0.57	0.66	0.68	0.66
PCB-111 233'55'-PeCB	1.07	6.1%	1.02	1.05	0.98	1.12	1.15	1.11
PCB-120 23'455'-PeCB	1.07	6.2%	1.05	1.01	0.99	1.12	1.15	1.12
PCB-108/124 ...-PeCB	0.98	6.5%	0.91	0.95	0.91	1.03	1.05	1.04
PCB-107 233'4'5-PeCB	1.07	11.4%	0.86	1.07	1.00	1.14	1.17	1.17
PCB-106 233'45-PeCB	1.00	7.5%	0.96	0.95	0.90	1.06	1.09	1.04
PCB-122 233'4'5'-PeCB	0.89	7.2%	0.81	0.86	0.83	0.92	0.97	0.95
PCB-127 33'455'-PeCB	0.98	7.4%	0.88	0.96	0.93	1.01	1.07	1.05
PCB-155 22'44'66'-HxCB	1.12	6.8%	1.02	1.10	1.06	1.17	1.21	1.18
PCB-152 22'3566'-HxCB	1.05	7.8%	0.97	1.03	0.95	1.09	1.15	1.12
PCB-150 22'34'66'-HxCB	1.07	5.5%	1.04	1.05	0.97	1.10	1.12	1.12
PCB-136 22'33'66'-HxCB	0.99	6.1%	0.94	0.94	0.93	1.01	1.06	1.06
PCB-145 22'3466'-HxCB	1.00	6.9%	0.94	0.96	0.91	1.03	1.07	1.06
PCB-148 22'34'56'-HxCB	1.03	6.2%	0.95	1.03	0.95	1.06	1.11	1.06
PCB-151/135 ...-HxCB	1.00	4.6%	0.99	0.99	0.92	1.02	1.06	1.02
PCB-154 22'44'56'-HxCB	1.13	6.7%	1.07	1.08	1.04	1.16	1.23	1.18
PCB-144 22'345'6-HxCB	1.03	5.0%	1.05	0.99	0.94	1.05	1.09	1.05
PCB-147/149 ...-HxCB	1.03	5.7%	1.03	0.98	0.94	1.05	1.10	1.06
PCB-134 22'33'56'-HxCB	0.84	7.2%	0.81	0.89	0.77	0.79	0.93	0.83
PCB-143 22'3456'-HxCB	0.95	11.0%	0.83	0.84	0.91	1.07	1.00	1.05
PCB-139/140 ...-HxCB	1.05	5.2%	1.01	1.03	0.97	1.07	1.13	1.08
PCB-131 22'33'46-HxCB	0.87	8.5%	0.78	0.83	0.82	0.92	0.96	0.93
PCB-142 22'3456-HxCB	0.91	4.9%	0.88	0.89	0.85	0.92	0.98	0.93
PCB-132 22'33'46'-HxCB	0.92	5.0%	0.90	0.89	0.85	0.94	0.99	0.94
PCB-133 22'33'55'-HxCB	0.97	5.0%	0.97	0.93	0.89	0.99	1.03	0.99
PCB-165 233'55'6-HxCB	1.19	4.6%	1.16	1.19	1.11	1.23	1.27	1.22
PCB-146 22'34'55'-HxCB	1.08	4.7%	1.06	1.09	1.01	1.09	1.16	1.09
PCB-161 233'45'6-HxCB	1.34	6.4%	1.24	1.41	1.23	1.41	1.41	1.37
PCB-153/168 ...-HxCB	1.26	5.3%	1.18	1.24	1.18	1.30	1.33	1.31
PCB-141 22'3455'-HxCB	0.98	5.2%	0.95	0.97	0.91	1.00	1.06	1.00
PCB-130 22'33'45'-HxCB	0.88	5.5%	0.82	0.91	0.81	0.90	0.92	0.89
PCB-137 22'344'5-HxCB	1.07	5.4%	1.07	1.04	0.99	1.07	1.17	1.10
PCB-164 233'4'5'6-HxCB	1.29	5.8%	1.19	1.31	1.21	1.36	1.33	1.35
PCB-163/138/129 ...-HxCB	1.05	6.3%	0.99	1.01	0.97	1.08	1.15	1.08
PCB-160 233'456-HxCB	1.26	8.0%	1.14	1.26	1.13	1.35	1.31	1.34
PCB-158 233'44'6-HxCB	1.40	6.3%	1.28	1.39	1.31	1.46	1.50	1.45
PCB-128/166 ...-HxCB	0.89	6.8%	0.85	0.84	0.81	0.91	0.96	0.94
PCB-159 233'455'-HxCB	1.04	6.6%	0.98	1.00	0.97	1.07	1.14	1.09
PCB-162 233'4'55'-HxCB	1.04	6.9%	1.02	0.95	0.97	1.08	1.12	1.09
PCB-188 22'34'566'-HpCB	0.97	5.3%	0.90	0.97	0.91	1.00	1.02	1.01
PCB-179 22'33'566'-HpCB	0.89	4.5%	0.84	0.88	0.86	0.92	0.94	0.93
PCB-184 22'344'66'-HpCB	0.87	8.1%	0.74	0.90	0.84	0.91	0.93	0.91
PCB-176 22'33'466'-HpCB	0.97	5.0%	0.93	0.93	0.91	0.99	1.02	1.01
PCB-186 22'34566'-HpCB	0.93	4.3%	0.89	0.95	0.88	0.96	0.97	0.96
PCB-178 22'33'55'6-HpCB	0.67	5.5%	0.63	0.69	0.62	0.69	0.70	0.71
PCB-175 22'33'45'6-HpCB	0.97	5.0%	0.93	0.94	0.93	1.00	1.05	1.00
PCB-187 22'34'55'6-HpCB	1.02	4.6%	0.98	0.99	0.97	1.04	1.09	1.05

PCB-182 22'344'56'-HpCB	1.05	4.4%	1.07	0.98	1.01	1.06	1.11	1.07
PCB-183 22'344'5'6'-HpCB	1.07	8.1%	1.10	0.94	1.03	1.05	1.20	1.09
PCB-185 22'3455'6'-HpCB	0.96	7.1%	0.90	0.92	0.88	1.03	0.97	1.04
PCB-174 22'33'456'-HpCB	0.86	8.2%	0.74	0.84	0.83	0.88	0.95	0.89
PCB-177 22'33'45'6'-HpCB	0.83	8.1%	0.74	0.79	0.79	0.87	0.91	0.89
PCB-181 22'344'56'-HpCB	1.00	5.6%	0.94	0.97	0.94	1.01	1.07	1.05
PCB-171/173 ...-HpCB	0.86	5.9%	0.83	0.83	0.80	0.88	0.93	0.90
PCB-172 22'33'455'-HpCB	0.87	7.5%	0.80	0.83	0.81	0.92	0.96	0.92
PCB-192 233'455'6'-HpCB	1.19	5.2%	1.14	1.17	1.10	1.22	1.27	1.22
PCB-180/193 ...-HpCB	1.11	4.8%	1.06	1.09	1.05	1.13	1.19	1.15
PCB-191 233'44'5'6'-HpCB	1.23	5.5%	1.13	1.26	1.18	1.26	1.32	1.26
PCB-170 22'33'44'5'-HpCB	1.01	5.9%	0.93	1.01	0.94	1.03	1.07	1.06
PCB-190 233'44'56'-HpCB	1.42	4.8%	1.39	1.40	1.31	1.43	1.49	1.48
PCB-202 22'33'55'66'-OcCB	0.83	7.3%	0.73	0.83	0.80	0.87	0.88	0.88
PCB-201 22'33'45'66'-OcCB	0.94	4.3%	0.89	0.95	0.90	0.96	0.99	0.98
PCB-204 22'344'566'-OcCB	0.87	6.9%	0.80	0.83	0.83	0.91	0.94	0.92
PCB-197 22'33'44'66'-OcCB	0.97	2.9%	0.96	0.97	0.94	0.99	0.97	1.02
PCB-200 22'33'4566'-OcCB	0.89	10.9%	0.74	0.92	0.80	0.95	1.00	0.92
PCB-198/199 ...-OcCB	0.66	5.8%	0.62	0.64	0.61	0.68	0.69	0.69
PCB-196 22'33'44'56'-OcCB	0.70	3.1%	0.69	0.70	0.67	0.72	0.73	0.71
PCB-203 22'344'55'6'-OcCB	0.74	3.2%	0.73	0.74	0.69	0.75	0.76	0.75
PCB-195 22'33'44'56'-OcCB	0.78	5.9%	0.75	0.77	0.71	0.79	0.84	0.82
PCB-194 22'33'44'55'-OcCB	0.85	6.4%	0.83	0.83	0.76	0.86	0.91	0.89
PCB-205 233'44'55'6'-OcCB	1.08	6.5%	1.07	1.00	1.00	1.10	1.17	1.14
PCB-208 22'33'455'66'-NoCB	0.99	5.3%	1.01	0.98	0.90	0.99	1.05	1.03
PCB-207 22'33'44'566'-NoCB	1.03	5.6%	1.02	0.98	0.94	1.03	1.10	1.07
PCB-206 22'33'44'55'6'-NoCB	0.83	4.9%	0.81	0.82	0.77	0.84	0.88	0.86

1668A/B ICALS																	PD from
Ax	RSD	Mean	sd	MM4_PCB_07192011_28SEP11	MM4_PCB_01102012_26JAN12	MM4_PCB_07132012_06AUG12	MM4_PCB_07132012_14 NOV2012	MM4_PCB_07132012_18 APR2013	MM4_PCB_07122013_11 SEP2013	RSD	Mean	sd	Mean				
77	7.6	1.04	0.08	1.20	1.22	1.32	1.12	1.20	1.51	10.9	1.26	0.14	19.9%				
81	9.8	1.09	0.11	1.08	1.24	1.30	1.11	1.23	1.27	7.3	1.20	0.09	5.5%				
105	8.6	0.98	0.08	0.89	1.03	1.09	1.04	1.03	1.00	6.5	1.01	0.07	-1.6%				
114	8.5	0.97	0.08	0.94	1.1	1.18	1.10	1.10	1.06	7.1	1.08	0.08	-1.8%				
118	7.2	0.98	0.07	0.88	1.03	1.13	1.06	1.06	1.01	7.9	1.03	0.08	-1.8%				
123	6.4	0.97	0.06	1.00	0.93	1.14	1.12	1.11	1.06	7.8	1.06	0.08	0.0%				
126	8.2	0.98	0.08	0.96	1.11	1.19	1.03	1.15	1.26	9.7	1.12	0.11	12.8%				
156/157	4.6	0.97	0.05	1.05	1.05	1.13	1.12	1.10	1.06	3.3	1.09	0.04	-2.2%				
167	5.2	0.96	0.05	1.11	1.08	1.14	1.17	1.14	1.12	2.7	1.13	0.03	-0.7%				
169	4.6	0.93	0.04	1.06	1.04	1.13	1.13	1.11	1.09	3.5	1.09	0.04	-0.8%				
189	9.8	0.93	0.09	1.19	1.11	1.16	1.02	1.12	1.15	5.2	1.13	0.06	2.3%				
1	10.9	1.18	0.13	1.18	1.2	1.28	1.00	1.07	1.20	8.7	1.15	0.10	3.6%				
3	9.5	1.18	0.11	1.13	1.13	1.34	1.04	1.10	1.24	9.4	1.16	0.11	6.4%				
4	10.4	0.97	0.10	0.89	0.94	1.11	0.97	0.98	0.97	7.4	0.97	0.07	-0.5%				
15	7.2	0.99	0.07	1.08	1.01	1.14	0.97	1.04	1.23	8.7	1.08	0.09	13.8%				
19	5.3	1.04	0.06	0.95	1.01	1.12	1.04	1.03	0.97	6.0	1.02	0.06	-5.0%				
37	8.1	1.05	0.08	1.18	1.2	1.38	1.15	1.19	1.28	7.0	1.23	0.09	4.3%				
54	9.1	1.02	0.09	0.88	0.93	1.12	1.05	1.07	1.00	8.8	1.01	0.09	-0.7%				
104	9.0	1.00	0.09	0.87	0.92	1.15	1.09	1.11	1.06	11.0	1.03	0.11	2.3%				
153				1.10	1.15	1.28	1.18	1.20	1.26	5.6	1.19	0.07	5.3%				
155	5.1	1.02	0.05	1.00	1.06	1.14	1.09	1.10	1.12	4.8	1.08	0.05	3.6%				
170				1.01	1.00	1.11	0.99	1.01	1.01	4.3	1.02	0.04	-1.2%				
180				1.08	1.01	1.17	1.06	1.08	1.11	4.8	1.09	0.05	2.3%				
188	6.5	1.06	0.07	1.02	1.07	1.18	1.03	1.06	0.97	6.5	1.06	0.07	-8.1%				
202	7.6	0.87	0.07	0.78	0.83	0.87	0.84	0.81	0.83	3.7	0.83	0.03	0.5%				
205	5.8	1.02	0.06	1.03	1.09	1.16	1.17	1.12	1.08	4.6	1.11	0.05	-2.5%				
208	4.5	0.94	0.04	0.88	0.98	1.02	1.00	0.97	0.99	5.1	0.97	0.05	1.9%				
206	7.1	0.98	0.07	0.91	0.93	0.97	0.97	0.94	0.83	5.5	0.92	0.05	-10.2%				
209	6.4	0.94	0.06	1.02	1.05	1.08	1.07	1.04	1.03	1.9	1.05	0.02	-1.4%				
ES																	
1	10.8	0.98	0.11	1.07	1.01	0.97	1.06	1.08	1.04	3.9	1.04	0.04	0.3%				
3	10.3	0.98	0.10	1.07	1.05	0.91	1.02	1.02	0.99	5.5	1.01	0.06	-2.2%				
4	8.3	0.71	0.06	0.84	0.7	0.48	0.64	0.75	0.71	17.4	0.69	0.12	3.3%				
15	6.3	1.05	0.07	1.12	1.17	1.05	1.12	1.05	1.09	4.2	1.10	0.05	-0.9%				
19	8.4	0.58	0.05	0.63	0.57	0.46	0.55	0.61	0.59	10.5	0.57	0.06	3.7%				
37	7.8	1.40	0.11	1.17	1.41	1.65	1.58	1.41	1.32	12.1	1.42	0.17	-7.4%				
54	13.1	1.35	0.18	1.59	1.32	1.05	1.25	1.31	1.35	13.2	1.31	0.17	2.8%				
77	7.9	1.20	0.10	1.05	1.22	1.55	1.50	1.20	1.07	17.0	1.27	0.21	-15.6%				
81	7.0	1.17	0.08	1.11	1.15	1.51	1.44	1.16	1.19	13.7	1.26	0.17	-5.6%				
104	12.1	1.48	0.18	1.97	1.69	1.62	1.30	1.36	1.62	21.8	1.50	0.33	8.0%				
105	5.1	1.18	0.06	1.18	1.21	1.16	1.22	1.16	1.30	4.6	1.20	0.06	8.1%				
114	4.2	1.23	0.05	1.24	1.23	1.19	1.24	1.20	1.32	3.7	1.24	0.05	6.7%				
118	5.2	1.24	0.07	1.27	1.25	1.21	1.25	1.20	1.30	3.1	1.25	0.04	4.5%				
123	5.4	1.20	0.06	1.15	1.33	1.17	1.22	1.16	1.26	5.7	1.22	0.07	3.8%				
126	8.5	1.29	0.11	1.16	1.36	1.54	1.37	1.14	1.41	11.6	1.33	0.15	5.8%				
153				1.13	1.09	1.13	1.11	1.15	1.15	2.3	1.13	0.03	2.4%				
155	5.0	1.51	0.08	1.56	1.4	1.59	1.41	1.55	1.53	5.3	1.51	0.08	1.8%				
156/157	15.9	1.15	0.18	0.92	1.13	1.50	1.15	1.14	1.19	16.1	1.17	0.19	1.3%				
167	14.1	1.18	0.17	0.94	1.13	1.54	1.18	1.18	1.22	16.1	1.20	0.19	2.1%				
169	19.8	1.10	0.22	0.80	1.14	1.45	1.11	1.09	1.18	18.4	1.13	0.21	4.9%				
170				1.31	1.23	0.96	1.13	1.12	1.22	10.6	1.16	0.12	5.1%				
180				1.52	1.46	1.10	1.29	1.32	1.41	11.0	1.35	0.15	4.2%				
188	12.9	1.39	0.18	1.66	1.34	1.09	1.35	1.39	1.71	16.0	1.42	0.23	19.9%				
189	9.1	1.70	0.15	1.55	1.77	1.97	1.70	1.55	1.84	9.6	1.73	0.17	6.3%				
202	9.7	1.32	0.13	1.46	1.27	1.16	1.30	1.28	1.42	8.3	1.31	0.11	7.9%				
205	4.3	1.26	0.05	1.21	1.25	1.21	1.19	1.20	1.25	2.2	1.22	0.03	3.0%				
206	7.4	0.94	0.07	1.12	1.07	0.90	1.00	1.05	1.24	10.5	1.06	0.11	16.3%				
208	8.5	1.31	0.11	1.61	1.34	1.15	1.27	1.32	1.42	11.4	1.35	0.15	5.1%				
209	6.3	1.21	0.08	1.19	1.18	1.15	1.16	1.22	1.23	2.7	1.19	0.03	3.7%				
SS																	
28	7.1	1.11	0.08	1.05	0.98	1.12	1.06	1.10	1.06	4.6	1.06	0.05	0.0%				
111	6.3	1.07	0.07	1.02	0.90	1.00	0.98	1.02	1.06	5.4	1.00	0.05	6.3%				
178	4.6	0.68	0.03	0.66	0.65	0.60	0.65	0.61	0.58	5.2	0.63	0.03	-6.9%				

Additional Ax										RSD	Mean	sd	PD from Historical Mean
PCB-1 2-MgCB	0.88	1.20	1.28	1.00	1.07	1.20	13.5	1.10	0.15	8.3%			
PCB-2 3-MgCB	0.84	1.13	1.30	1.04	1.11	1.25	14.8	1.11	0.16	12.3%			
PCB-3 4-MgCB	0.83	1.13	1.34	1.04	1.10	1.24	15.7	1.11	0.18	11.2%			
PCB-4 22-DICB	0.86	0.94	1.11	0.97	0.98	0.97	8.3	0.97	0.08	0.0%			
PCB-10 26-DICB	1.33	1.70	1.70	1.45	1.51	1.51	8.2	1.49	0.12	1.3%			
PCB-9 25-DICB	0.73	0.87	1.00	0.84	0.92	1.06	13.3	0.90	0.12	17.5%			
PCB-7 24-DICB	0.81	1.00	1.16	0.97	1.05	1.23	14.2	1.04	0.15	18.8%			
PCB-6 23-DICB	0.76	0.94	1.07	0.90	0.99	1.14	13.7	0.97	0.13	17.8%			
PCB-5 23-DICB	0.76	0.92	1.05	0.90	0.98	1.15	14.0	0.96	0.13	19.6%			
PCB-8 24-DICB	0.77	0.95	1.14	0.92	1.01	1.18	15.1	1.00	0.15	18.0%			
PCB-14 35-DICB	0.89	1.09	1.25	1.06	1.17	1.31	13.4	1.13	0.15	16.3%			
PCB-11 33-DICB	0.78	0.98	1.06	0.95	0.99	1.17	13.0	0.99	0.13	18.4%			
PCB-13/12 34-/34-DICB	0.79	0.97	1.08	0.93	0.99	1.17	13.1	0.99	0.13	17.9%			
PCB-15 44-DICB	0.83	1.01	1.14	0.97	1.04	1.23	13.3	1.04	0.14	18.4%			
PCB-19 226-TrCB	0.95	1.01	1.12	1.04	1.03	0.97	6.1	1.02	0.06	-4.9%			
PCB-30/18 246-/225-TrCB	1.21	1.29	1.43	1.35	1.33	1.23	6.1	1.31	0.08	-5.6%			
PCB-17 224-TrCB	1.04	1.14	1.24	1.17	1.14	1.06	6.6	1.13	0.07	-6.7%			
PCB-27 236-TrCB	1.41	1.48	1.63	1.53	1.54	1.44	5.3	1.51	0.08	-4.5%			
PCB-24 236-TrCB	1.34	1.43	1.60	1.46	1.50	1.37	6.5	1.45	0.09	-5.7%			
PCB-16 223-TrCB	0.84	0.89	0.96	0.91	0.86	0.80	6.3	0.88	0.06	-8.2%			
PCB-32 246-TrCB	1.46	1.56	1.73	1.62	1.59	1.59	5.4	1.59	0.09	0.0%			
PCB-34 235-TrCB	0.98	1.18	1.37	1.10	1.20	1.26	11.3	1.18	0.13	7.1%			
PCB-23 235-TrCB	0.99	1.19	1.45	1.12	1.22	1.31	12.9	1.21	0.16	8.0%			
PCB-26/29 235-/245-TrCB	1.02	1.20	1.41	1.13	1.24	1.33	11.4	1.22	0.14	9.1%			
PCB-25 234-TrCB	1.02	1.19	1.45	1.14	1.25	1.33	12.2	1.23	0.15	8.0%			
PCB-31 245-TrCB	1.04	1.23	1.49	1.17	1.28	1.39	12.4	1.26	0.16	9.6%			
PCB-28/20 244-/233-TrCB	1.00	1.18	1.39	1.12	1.21	1.30	11.4	1.20	0.14	8.1%			
PCB-21/33 234-/234-TrCB	1.02	1.21	1.47	1.16	1.25	1.34	12.4	1.24	0.15	7.9%			
PCB-22 234-TrCB	0.93	1.11	1.34	1.07	1.15	1.22	11.9	1.14	0.14	7.0%			
PCB-36 335-TrCB	1.05	1.21	1.44	1.19	1.26	1.35	10.7	1.25	0.13	7.9%			
PCB-39 345-TrCB	1.09	1.32	1.47	1.22	1.30	1.40	10.3	1.30	0.13	7.5%			
PCB-38 345-TrCB	0.96	1.15	1.33	1.12	1.18	1.25	10.8	1.17	0.13	7.1%			
PCB-35 334-TrCB	0.96	1.13	1.30	1.10	1.13	1.23	10.2	1.14	0.12	7.8%			
PCB-37 344-TrCB	0.98	1.20	1.38	1.15	1.19	1.28	11.2	1.20	0.13	7.1%			
PCB-54 2266-TeCB	1.17	0.93	1.12	1.05	1.07	1.00	7.9	1.06	0.08	-5.2%			
PCB-50/53 2246-/2256TeCB	0.59	0.83	0.74	0.72	0.94	0.82	15.4	0.77	0.12	5.5%			
PCB-45 2236-TeCB	0.50	0.71	0.66	0.64	0.80	0.73	14.9	0.67	0.10	8.5%			
PCB-51 2246-TeCB	0.60	0.88	0.74	0.74	0.97	0.79	16.3	0.79	0.13	0.8%			
PCB-46 2236-TeCB	0.46	0.69	0.62	0.60	0.78	0.66	16.9	0.64	0.11	3.5%			
PCB-52 2255-TeCB	0.54	0.80	0.71	0.70	0.89	0.79	16.4	0.74	0.12	6.9%			
PCB-73 2356TeCB	0.69	1.03	0.93	0.91	1.22	1.06	18.1	0.97	0.18	8.7%			
PCB-43 2235-TeCB	0.45	0.71	0.65	0.63	0.75	0.64	15.9	0.64	0.10	0.4%			
PCB-69/49 2346-/2245TeCB	0.66	0.96	0.86	0.85	1.08	0.95	15.9	0.89	0.14	6.1%			
PCB-48 2245-TeCB	0.54	0.84	0.72	0.74	0.91	0.79	16.7	0.76	0.13	4.1%			
PCB-44/47/65 2235-/2244-	0.58	0.86	0.75	0.77	0.96	0.84	15.9	0.79	0.13	5.9%			
PCB-59/62/75 2336-/2346-/24	0.75	1.09	0.96	0.97	1.23	1.07	16.0	1.01	0.16	6.1%			
PCB-42 2234-TeCB	0.50	0.77	0.69	0.67	0.84	0.72	16.7	0.70	0.12	3.5%			
PCB-41 2234-TeCB	0.46	0.73	0.62	0.62	0.76	0.66	16.4	0.64	0.10	2.4%			
PCB-71/40 2346/2233-TeCB	0.55	0.81	0.72	0.75	0.93	0.79	16.7	0.76	0.13	4.6%			
PCB-64 2346-TeCB	0.77	1.17	1.01	1.04	1.31	1.13	17.1	1.07	0.18	5.9%			
PCB-72 2355-TeCB	0.87	1.25	1.36	1.14	1.28	1.31	14.8	1.20	0.18	8.9%			
PCB-68 2345-TeCB	0.94	1.36	1.49	1.19	1.41	1.43	15.5	1.30	0.20	9.4%			
PCB-57 2335-TeCB	0.88	1.22	1.34	1.07	1.22	1.26	14.3	1.16	0.17	8.1%			
PCB-58 2335-TeCB	0.86	1.26	1.35	1.10	1.27	1.30	15.3	1.19	0.18	9.7%			
PCB-67 2345-TeCB	0.89	1.27	1.40	1.12	1.30	1.35	15.4	1.22	0.19	10.3%			
PCB-63 2345-TeCB	0.94	1.34	1.47	1.21	1.34	1.42	15.0	1.29	0.19	10.4%			
PCB-61/70/74/76 2345-/2345	0.87	1.24	1.37	1.10	1.25	1.32	15.2	1.19	0.18	10.5%			
PCB-66 2344-TeCB	0.83	1.19	1.26	1.05	1.17	1.26	14.7	1.12	0.17	12.2%			
PCB-55 2334-TeCB	0.83	1.22	1.34	1.06	1.20	1.24	15.5	1.15	0.18	7.6%			
PCB-56 2334-TeCB	0.80	1.18	1.24	1.03	1.17	1.22	15.0	1.11	0.17	10.6%			
PCB-60 2344-TeCB	0.82	1.24	1.33	1.10	1.23	1.29	16.0	1.17	0.19	10.1%			
PCB-80 3355-TeCB	0.97	1.37	1.49	1.24	1.39	1.42	14.3	1.31	0.19	8.0%			
PCB-79 3345-TeCB	0.95	1.37	1.47	1.24	1.43	1.47	15.2	1.32	0.20	11.3%			
PCB-78 3345-TeCB	0.80	1.19	1.23	1.07	1.16	1.23	14.8	1.12	0.16	10.7%			
PCB-104 22466-PeCB	1.14	0.92	1.15	1.09	1.11	1.06	8.0	1.08	0.09	-2.0%			
PCB-96 22366-PeCB	0.98	0.81	1.00	0.96	0.96	0.90	7.5	0.94	0.07	-3.7%			
PCB-103 22456-PeCB	0.78	0.78	0.95	0.83	0.89	0.84	8.1	0.84	0.07	-0.6%			
PCB-94 22356-PeCB	0.66	0.71	0.84	0.74	0.79	0.73	8.4	0.75	0.06	-2.4%			
PCB-95 22356-PeCB	0.71	0.74	0.90	0.78	0.82	0.78	8.2	0.79	0.06	-1.1%			
PCB-100/93 22446-/22356-P	0.70	0.75	0.91	0.80	0.84	0.77	9.0	0.80	0.07	-2.7%			
PCB-102 22456-PeCB	0.82	0.75	1.02	0.88	0.92	0.83	10.8	0.87	0.09	-4.3%			
PCB-98 22346-PeCB	0.66	0.71	0.80	0.70	0.76	0.75	7.0	0.73	0.05	2.7%			
PCB-88 22346-PeCB	0.67	0.66	0.82	0.70	0.79	0.74	8.9	0.73	0.07	1.5%			

PCB-91 22'34'6'-PeCB	0.78	0.84	0.99	0.88	0.89	0.83	8.1	0.87	0.07	-4.2%
PCB-84 22'33'6'-PeCB	0.63	0.65	0.79	0.68	0.72	0.66	8.3	0.69	0.06	-3.7%
PCB-89 22'34'6'-PeCB	0.67	0.69	0.80	0.73	0.76	0.69	7.0	0.72	0.05	-3.9%
PCB-121 23'45'6'-PeCB	0.95	0.98	1.17	1.07	1.11	1.06	7.7	1.06	0.08	0.0%
PCB-92 22'35'5'-PeCB	0.71	0.72	0.84	0.74	0.80	0.73	6.9	0.76	0.05	-3.5%
PCB-113/90/101 233'5'6'-/22'3	0.84	0.81	0.97	0.89	0.93	0.85	6.7	0.88	0.06	-3.0%
PCB-83 22'33'5'-PeCB	0.61	0.62	0.72	0.68	0.68	0.65	6.2	0.66	0.04	-2.2%
PCB-99 22'44'5'-PeCB	0.75	0.76	0.89	0.83	0.90	0.84	7.5	0.83	0.06	1.2%
PCB-112 233'56'-PeCB	0.98	0.96	1.14	1.04	1.05	1.00	6.5	1.03	0.07	-3.1%
PCB-108/119/86/97/125/87 233	0.84	0.83	0.98	0.90	0.93	0.87	6.5	0.89	0.06	-2.4%
PCB-117 234'56'-PeCB	0.93	0.94	1.11	0.91	0.98	0.88	8.5	0.96	0.08	-8.6%
PCB-116/85 23456'-/22'344'-Pe	0.81	0.81	0.96	0.96	0.95	0.91	8.2	0.90	0.07	1.4%
PCB-110 233'4'6'-PeCB	0.91	0.92	1.12	0.98	1.06	0.99	8.2	0.99	0.08	-0.6%
PCB-115 2344'6'-PeCB	0.98	0.95	1.11	1.05	1.07	1.01	5.9	1.03	0.06	-1.6%
PCB-82 22'33'4'-PeCB	0.61	0.62	0.73	0.67	0.68	0.62	7.2	0.66	0.05	-5.0%
PCB-111 233'55'-PeCB	1.05	0.98	1.18	1.09	1.12	1.07	6.2	1.08	0.07	-1.0%
PCB-120 23'45'5'-PeCB	1.02	0.99	1.15	1.09	1.11	1.07	5.5	1.07	0.06	-0.1%
PCB-107/124 233'4'5'-/2'345'5'	0.95	0.92	1.08	1.03	1.02	0.98	5.7	1.00	0.06	-1.2%
PCB-109 233'46'-PeCB	1.01	1.00	1.10	1.09	1.12	1.07	4.9	1.06	0.05	0.5%
PCB-106 233'45'-PeCB	0.95	0.96	1.13	1.02	1.02	1.00	6.2	1.01	0.06	-1.3%
PCB-122 2'33'45'-PeCB	0.80	0.93	0.99	0.95	0.93	0.89	7.2	0.91	0.07	-2.5%
PCB-127 33'45'5'-PeCB	0.93	1.04	1.07	1.04	1.02	0.98	5.2	1.01	0.05	-3.1%
PCB-155 22'44'66'-HxCB	1.06	1.06	1.14	1.09	1.10	1.12	3.2	1.09	0.03	2.7%
PCB-152 22'3566'-HxCB	0.99	0.98	1.07	0.98	1.03	1.05	3.7	1.02	0.04	3.4%
PCB-150 22'34'66'-HxCB	0.96	0.99	1.08	0.99	1.03	1.07	4.7	1.02	0.05	4.5%
PCB-136 22'33'66'-HxCB	0.91	0.92	0.99	0.94	0.95	0.99	3.8	0.95	0.04	4.3%
PCB-145 22'3466'HxCB	0.94	0.94	1.02	0.95	0.97	1.00	3.5	0.97	0.03	2.7%
PCB-148 22'34'56'-HxCB	0.96	0.95	1.09	0.95	0.99	1.03	5.7	0.99	0.06	3.3%
PCB-151/135 22'355'6'-/22'33'	0.92	0.92	1.07	0.93	0.97	1.00	6.4	0.97	0.06	3.3%
PCB-154 22'44'5'6'-HxCB	1.05	1.01	1.17	1.05	1.10	1.13	5.4	1.09	0.06	3.7%
PCB-144 22'345'6'-HxCB	0.94	0.93	1.08	0.94	0.99	1.03	6.0	0.99	0.06	4.4%
PCB-147/149 22'34'56'-/22'34'	0.95	0.94	1.08	0.96	0.99	1.03	5.4	0.99	0.05	3.7%
PCB-134 22'33'56'-HxCB	0.76	0.78	0.88	0.80	0.79	0.84	5.2	0.81	0.04	3.6%
PCB-143 22'3456'-HxCB	0.89	0.90	1.06	0.90	0.97	0.95	7.1	0.94	0.07	0.3%
PCB-139/140 22'344'6'-/22'344'	0.96	0.95	1.09	0.97	1.01	1.05	5.4	1.01	0.05	4.3%
PCB-131 22'33'46'-HxCB	0.84	0.84	0.98	0.85	0.87	0.87	6.1	0.88	0.05	-0.2%
PCB-142 22'3456'-HxCB	0.84	0.87	0.96	0.88	0.87	0.91	4.8	0.89	0.04	2.3%
PCB-132 22'33'46'-HxCB	0.87	0.88	0.96	0.89	0.89	0.92	3.6	0.90	0.03	1.8%
PCB-133 22'33'55'-HxCB	0.95	0.89	1.01	0.92	0.93	0.97	4.4	0.94	0.04	2.4%
PCB-165 233'55'6'-HxCB	1.11	1.06	1.22	1.11	1.13	1.19	5.2	1.14	0.06	5.0%
PCB-146 22'34'55'-HxCB	0.98	0.94	1.08	0.99	1.00	1.08	5.6	1.01	0.06	7.0%
PCB-161 233'45'6'-HxCB	1.25	1.20	1.36	1.23	1.26	1.34	5.2	1.27	0.07	5.6%
PCB-153/168 22'44'55'-/23'44'	1.14	1.15	1.28	1.18	1.20	1.26	4.7	1.20	0.06	4.7%
PCB-141 22'3455'-HxCB	0.93	0.91	1.07	0.93	0.94	0.98	5.9	0.96	0.06	2.1%
PCB-130 22'33'45'-HxCB	0.82	0.82	0.91	0.84	0.82	0.88	4.2	0.85	0.04	3.4%
PCB-137 22'344'5'-HxCB	1.00	1.00	1.09	1.03	1.01	1.07	3.7	1.03	0.04	3.8%
PCB-164 233'4'5'6'-HxCB	1.25	1.14	1.35	1.20	1.20	1.29	6.2	1.24	0.08	4.3%
PCB-163/138/129 233'4'56'-/22'	1.00	0.98	1.08	1.01	1.01	1.05	3.3	1.02	0.03	2.6%
PCB-160 233'456'-HxCB	1.17	1.14	1.30	1.17	1.16	1.26	5.2	1.20	0.06	4.7%
PCB-158 233'44'6'-HxCB	1.40	1.24	1.43	1.30	1.30	1.40	5.5	1.35	0.07	4.0%
PCB-128/166 22'33'44'-/2344'5	0.95	0.86	0.94	0.93	0.93	0.89	3.8	0.92	0.03	-3.4%
PCB-159 233'455'-HxCB	1.14	1.03	1.07	1.08	1.07	1.04	3.7	1.07	0.04	-2.9%
PCB-162 233'4'55'-HxCB	1.13	1.04	1.12	1.13	1.10	1.04	3.9	1.09	0.04	-5.0%
PCB-188 22'34'566'-HpCB	1.08	1.07	1.18	1.03	1.06	0.97	6.3	1.06	0.07	-8.9%
PCB-179 22'33'566'-HpCB	0.99	0.98	1.08	0.99	0.95	0.89	6.1	0.98	0.06	-8.7%
PCB-184 22'344'66'-HpCB	0.99	0.97	1.03	0.96	0.93	0.87	5.8	0.96	0.06	-9.2%
PCB-176 22'33'466'-HpCB	1.08	1.06	1.14	1.07	1.03	0.97	5.3	1.06	0.06	-8.7%
PCB-186 22'34566'-HpCB	1.01	1.02	1.08	1.02	0.99	0.93	4.7	1.01	0.05	-7.5%
PCB-178 22'33'55'6'-HpCB	0.79	0.77	0.82	0.74	0.70	0.67	7.3	0.75	0.05	-10.0%
PCB-175 22'33'45'6'-HpCB	0.93	0.89	1.05	0.94	1.02	0.97	5.9	0.97	0.06	0.7%
PCB-187 22'34'55'6'-HpCB	1.02	0.94	1.10	0.98	1.03	1.02	5.3	1.01	0.05	0.6%
PCB-182 22'344'56'-HpCB	1.04	0.95	1.12	1.01	1.06	1.05	5.4	1.04	0.06	1.2%
PCB-183 22'344'5'6'-HpCB	1.01	0.96	1.14	1.00	1.14	1.07	7.3	1.05	0.08	1.3%
PCB-185 22'3455'6'-HpCB	0.97	0.93	1.07	0.98	0.93	0.96	5.3	0.97	0.05	-1.6%
PCB-174 22'33'456'-HpCB	0.86	0.80	0.96	0.86	0.90	0.86	6.1	0.87	0.05	-1.9%
PCB-177 22'33'4'56'-HpCB	0.85	0.82	0.93	0.84	0.89	0.83	5.0	0.86	0.04	-3.1%
PCB-181 22'344'56'-HpCB	1.02	0.91	1.09	0.97	1.01	1.00	5.7	1.00	0.06	-0.3%
PCB-171/173 22'33'44'6'-/22'3	0.87	0.81	0.96	0.87	0.88	0.86	5.6	0.88	0.05	-1.5%
PCB-172 22'33'455'-HpCB	0.87	0.83	0.96	0.88	0.90	0.87	5.1	0.89	0.04	-1.6%
PCB-192 233'455'6'-HpCB	1.13	1.09	1.22	1.12	1.15	1.19	4.2	1.15	0.05	3.3%
PCB-180/193 22'344'55'-/233'	1.08	1.01	1.17	1.06	1.08	1.11	4.8	1.09	0.05	2.2%
PCB-191 233'44'5'6'-HpCB	1.14	1.13	1.30	1.13	1.19	1.23	5.8	1.19	0.07	3.9%
PCB-170 22'33'44'5'-HpCB	0.97	1.00	1.11	0.99	1.01	1.01	4.7	1.01	0.05	-0.6%
PCB-190 233'44'56'-HpCB	1.37	1.35	1.44	1.35	1.37	1.42	2.7	1.38	0.04	2.4%
PCB-202 22'33'55'66'-OcCB	0.91	0.83	0.87	0.84	0.81	0.83	4.4	0.85	0.04	-2.2%
PCB-201 22'33'45'66'-OcCB	1.00	0.93	0.95	0.92	0.92	0.94	3.3	0.94	0.03	-0.1%

PCB-204 22'344'566'-OcCB	0.94	0.89	0.92	0.87	0.85	0.87	3.9	0.89	0.03	-2.3%
PCB-197 22'33'44'66'-OcCB	1.03	0.91	1.01	1.01	0.86	0.97	6.9	0.97	0.07	0.7%
PCB-200 22'33'4566'-OcCB	0.92	0.93	0.93	0.84	0.99	0.89	5.4	0.92	0.05	-3.1%
PCB-198/199 22'33'455'6-/22'	0.69	0.68	0.67	0.68	0.65	0.66	2.3	0.67	0.02	-2.5%
PCB-196 22'33'44'56'-OcCB	0.74	0.72	0.70	0.70	0.69	0.70	2.4	0.71	0.02	-0.4%
PCB-203 22'344'55'6'-OcCB	0.75	0.74	0.76	0.74	0.69	0.74	3.0	0.73	0.02	0.3%
PCB-195 22'33'44'56'-OcCB	0.84	0.81	0.85	0.88	0.84	0.78	4.3	0.83	0.04	-6.5%
PCB-194 22'33'44'55'-OcCB	0.96	0.86	0.91	0.94	0.90	0.85	5.0	0.90	0.05	-6.2%
PCB-205 233'44'55'6'-OcCB	1.18	1.09	1.16	1.17	1.12	1.08	3.6	1.13	0.04	-4.6%
PCB-208 22'33'455'66'-NoCB	0.91	0.98	1.02	1.00	0.97	0.99	3.8	0.98	0.04	1.4%
PCB-207 22'33'44'566'-NoCB	0.97	1.02	1.05	1.04	1.03	1.03	2.9	1.02	0.03	0.5%
PCB-206 22'33'44'55'6'-NoCB	0.95	0.93	0.97	0.97	0.94	0.83	5.6	0.93	0.05	-10.9%

SGS Analytical Perspectives — Run Log

Project: MM4_PCB_07122013_11SEP2013

Instrument: MM4 (AutoSpec-Ultima)

MS Experiment: pcb-2011-08

GC Program: pcb90_FI

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
2	130911S02	12	SBS_130911_PCB_SA	1.00	SIL9-41-1	CTW	704-051	11-Sep-2013	12:36:54
3	130911S03	50	CS0_130911_PCB_SB	1.00	SIL 13-40-6	CTW	322-539	11-Sep-2013	13:30:11
4	130911S04	51	CS1_130911_PCB_SB	1.00	SIL 13-40-5	CTW	859-146	11-Sep-2013	14:36:37
5	130911S05	52	CS2_130911_PCB_SB	1.00	SIL 13-40-4	CTW	066-105	11-Sep-2013	15:46:45
6	130911S06	53	CS3_130911_PCB_SB	1.00	SIL 13-40-3	CTW	120-339	11-Sep-2013	16:57:30
7	130911S07	54	CS4_130911_PCB_SB	1.00	SIL 13-40-2	CTW	211-287	11-Sep-2013	17:50:46
8	130911S08	55	CS5_130911_PCB_SB	1.00	SIL 13-40-1	CTW	130-367	11-Sep-2013	18:46:59

APPROVED
By Jeremy Kadylak at 3:34 pm, Sep 25, 2013

PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:35			
Lab ID:	CS0_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013						
Acquired:	11-SEP-2013 13:30							
Datafile:	130911S03							
Name	RT	Response	RA	ICAL	RRF	Dev'n		
PCB-77 33'44'-TeCB	29.41	3.51E+05	0.82 Y	1.51	1.48	-2.4%		
PCB-81 344'5'-TeCB	28.93	2.95E+05	0.81 Y	1.27	1.11	-12.3%		
PCB-105 233'44'-PeCB	32.36	1.99E+05	0.69 Y	1.00	0.92	-7.8%		
PCB-114 2344'5'-PeCB	31.81	2.20E+05	0.66 Y	1.06	1.00	-5.4%		
PCB-118 23'44'5'-PeCB	31.37	2.03E+05	0.65 Y	1.01	0.93	-7.7%		
PCB-123 23'44'5'-PeCB	31.09	2.22E+05	0.65 Y	1.06	1.06	0.4%		
PCB-126 33'44'5'-PeCB	34.96	2.95E+05	0.61 Y	1.26	1.26	0.3%		
PCB-156/157 ...-HxCB	37.50	3.70E+05	1.32 Y	1.06	0.98	-8.3%		
PCB-167 23'44'55'-HxCB	36.53	2.17E+05	1.30 Y	1.12	1.10	-1.2%		
PCB-169 33'44'55'-HxCB	40.21	2.00E+05	1.15 Y	1.09	1.07	-1.5%		
PCB-189 233'44'55'-HpCB	42.34	2.43E+05	0.98 Y	1.15	1.09	-5.5%		
PCB-209 DeCB	47.31	1.53E+05	1.30 Y	1.03	1.02	-1.5%		
ES PCB-1	9.93	7.76E+07	3.19 Y	1.04	1.02	-2.1%		
ES PCB-3	11.86	7.45E+07	3.26 Y	0.99	0.98	-1.1%		
ES PCB-4	12.08	5.51E+07	1.58 Y	0.71	0.72	1.9%		
ES PCB-15	17.20	8.20E+07	1.61 Y	1.09	1.08	-1.1%		
ES PCB-19	14.79	4.57E+07	1.04 Y	0.59	0.60	1.7%		
ES PCB-37	23.20	5.87E+07	1.08 Y	1.32	1.25	-4.9%		
ES PCB-54	17.45	6.50E+07	0.76 Y	1.35	1.39	2.8%		
ES PCB-77	29.39	4.76E+07	0.81 Y	1.07	1.02	-4.7%		
ES PCB-81	28.92	5.29E+07	0.81 Y	1.19	1.13	-5.0%		
ES PCB-104	22.15	6.07E+07	1.55 Y	1.62	1.80	11.2%		
ES PCB-105	32.34	4.33E+07	1.55 Y	1.30	1.29	-1.3%		
ES PCB-114	31.79	4.39E+07	1.56 Y	1.32	1.30	-1.2%		
ES PCB-118	31.35	4.35E+07	1.56 Y	1.30	1.29	-1.0%		
ES PCB-123	31.07	4.17E+07	1.57 Y	1.26	1.24	-1.9%		
ES PCB-126	34.94	4.66E+07	1.61 Y	1.41	1.38	-1.7%		
ES PCB-153	32.93	3.89E+07	1.25 Y	1.15	1.14	-1.5%		
ES PCB-155	26.97	5.24E+07	1.25 Y	1.53	1.53	-0.1%		
ES PCB-156/157	37.48	7.58E+07	1.25 Y	1.19	1.11	-6.6%		
ES PCB-167	36.51	3.92E+07	1.25 Y	1.22	1.15	-6.3%		
ES PCB-169	40.20	3.74E+07	1.26 Y	1.18	1.09	-7.7%		
ES PCB-170	39.70	3.04E+07	1.04 Y	1.22	1.22	0.0%		
ES PCB-180	38.64	3.49E+07	1.05 Y	1.41	1.40	-0.4%		
ES PCB-188	31.79	5.94E+07	1.06 Y	1.71	1.74	1.7%		
ES PCB-189	42.32	4.47E+07	1.04 Y	1.84	1.80	-2.4%		
ES PCB-202	36.31	4.84E+07	0.88 Y	1.42	1.41	-0.2%		
ES PCB-205	44.48	3.04E+07	0.90 Y	1.25	1.22	-2.6%		
ES PCB-206	45.94	3.03E+07	0.79 Y	1.24	1.22	-1.6%		
ES PCB-208	41.92	3.52E+07	0.78 Y	1.42	1.41	-0.5%		
ES PCB-209	47.29	3.01E+07	1.16 Y	1.23	1.21	-1.9%		

PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:35		
Lab ID:	CS0_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 13:30						
Datafile:	130911S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	19.79	6.15E+07	1.07 Y	1.06	1.05	-1.3%	
SS PCB-111	29.43	4.54E+07	1.57 Y	1.06	1.09	2.6%	
SS PCB-178	34.36	3.44E+07	1.06 Y	0.58	0.58	-0.6%	
CS PCB-28	19.79	6.15E+07	1.07 Y	1.40	1.32	-6.1%	
CS PCB-111	29.43	4.54E+07	1.57 Y	1.34	1.35	0.7%	
CS PCB-178	34.36	3.44E+07	1.06 Y	0.99	1.01	1.1%	
JS PCB-9	13.82	7.61E+07	1.65 Y	-	-	-	
JS PCB-52	21.35	4.68E+07	0.77 Y	-	-	-	
JS PCB-101	27.16	3.37E+07	1.56 Y	-	-	-	
JS PCB-138	33.97	3.42E+07	1.24 Y	-	-	-	
JS PCB-194	44.09	2.49E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	9.94	4.46E+05	3.13 Y	1.20	1.15	-3.8%	
PCB-3 4-MoCB	11.88	4.30E+05	3.14 Y	1.24	1.16	-6.7%	
PCB-4 22'-DiCB	12.09	2.62E+05	0.00 S	0.97	0.95	-2.1%	
PCB-15 44'-DiCB	17.22	4.94E+05	0.00 S	1.23	1.21	-1.9%	
PCB-19 22'6'-TrCB	14.81	2.06E+05	1.02 Y	0.97	0.90	-7.0%	
PCB-37 344'-TrCB	23.21	3.30E+05	1.04 Y	1.28	1.13	-12.3%	
PCB-54 22'66'-TeCB	17.47	3.01E+05	0.76 Y	1.00	0.93	-7.3%	
PCB-104 22'466'-PeCB	22.17	2.95E+05	0.58 Y	1.06	0.97	-8.1%	
PCB-153/168 ...-HxCB	32.97	4.60E+05	1.14 Y	1.26	1.18	-5.9%	
PCB-155 22'44'66'-HxCB	26.99	2.67E+05	1.19 Y	1.12	1.02	-9.3%	
PCB-170 22'33'44'5'-HpCB	39.72	1.41E+05	1.06 Y	1.01	0.93	-7.6%	
PCB-180/193 ...-HpCB	38.64	3.72E+05	0.93 Y	1.11	1.06	-4.3%	
PCB-188 22'34'566'-HpCB	31.81	2.68E+05	1.03 Y	0.97	0.90	-7.0%	
PCB-202 22'33'55'66'-OcCB	36.33	1.76E+05	0.90 Y	0.83	0.73	-12.5%	
PCB-205 233'44'55'6'-OcCB	44.50	1.63E+05	1.01 Y	1.08	1.07	-0.8%	
PCB-208 22'33'455'66'-NoCB	41.94	1.78E+05	0.75 Y	0.99	1.01	2.0%	
PCB-206 22'33'44'55'6'-NoCB	45.96	1.23E+05	0.84 Y	0.83	0.81	-2.4%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:35			
Lab ID:	CS0_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 13:30						
Datafile:	130911S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	9.94	4.46E+05	3.13 Y	1.20	1.15	-3.8%	
PCB-2 3-MoCB	11.72	4.35E+05	3.25 Y	1.25	1.17	-6.2%	
PCB-3 4-MoCB	11.88	4.30E+05	3.14 Y	1.24	1.16	-6.7%	
PCB-4 22'-DiCB	12.09	2.62E+05	0.00 S	0.97	0.95	-2.1%	
PCB-10 26'-DiCB	12.25	4.08E+05	0.00 S	1.51	1.48	-1.8%	
PCB-9 25'-DiCB	13.83	4.27E+05	0.00 S	1.06	1.04	-1.7%	
PCB-7 24'-DiCB	13.97	5.19E+05	0.00 S	1.23	1.27	2.8%	
PCB-6 23'-DiCB	14.18	4.67E+05	0.00 S	1.14	1.14	0.2%	
PCB-5 23'-DiCB	14.45	4.31E+05	0.00 S	1.15	1.05	-8.5%	
PCB-8 24'-DiCB	14.56	4.42E+05	0.00 S	1.18	1.08	-8.3%	
PCB-14 35'-DiCB	15.96	4.60E+05	0.00 S	1.31	1.12	-14.4%	
PCB-11 33'-DiCB	16.68	4.88E+05	0.00 S	1.17	1.19	1.8%	
PCB-13/12 34'/34'-DiCB	16.95	8.97E+05	0.00 S	1.17	1.09	-6.1%	
PCB-15 44'-DiCB	17.22	4.94E+05	0.00 S	1.23	1.21	-1.9%	
PCB-19 22'6'-TrCB	14.81	2.06E+05	1.02 Y	0.97	0.90	-7.0%	
PCB-30/18 246'/22'5'-TrCB	16.41	4.98E+05	0.98 Y	1.23	1.09	-11.8%	
PCB-17 22'4'-TrCB	16.78	2.10E+05	1.03 Y	1.06	0.92	-13.0%	
PCB-27 23'6'-TrCB	16.97	2.91E+05	1.02 Y	1.44	1.27	-11.7%	
PCB-24 236'-TrCB	17.08	2.77E+05	0.97 Y	1.37	1.21	-11.3%	
PCB-16 22'3'-TrCB	17.17	1.60E+05	1.08 Y	0.80	0.70	-12.9%	
PCB-32 24'6'-TrCB	17.61	3.53E+05	1.05 Y	1.59	1.54	-2.9%	
PCB-34 23'5'-TrCB	18.70	3.51E+05	1.10 Y	1.26	1.20	-5.3%	
PCB-23 235'-TrCB	18.83	3.53E+05	1.06 Y	1.31	1.20	-8.1%	
PCB-26/29 23'5'/245'-TrCB	19.10	7.37E+05	1.12 Y	1.33	1.26	-5.8%	
PCB-25 23'4'-TrCB	19.29	3.53E+05	1.02 Y	1.33	1.20	-9.5%	
PCB-31 24'5'-TrCB	19.56	3.79E+05	1.10 Y	1.39	1.29	-6.8%	
PCB-28/20 244'/233'-TrCB	19.82	6.88E+05	1.07 Y	1.30	1.17	-9.8%	
PCB-21/33 234'/23'4'-TrCB	19.99	7.10E+05	1.04 Y	1.34	1.21	-9.8%	
PCB-22 234'-TrCB	20.35	3.11E+05	1.01 Y	1.22	1.06	-12.9%	
PCB-36 33'5'-TrCB	21.68	3.57E+05	1.04 Y	1.35	1.22	-9.7%	
PCB-39 34'5'-TrCB	21.98	3.72E+05	1.11 Y	1.40	1.27	-9.3%	
PCB-38 345'-TrCB	22.47	3.17E+05	1.22 N	1.25	1.08	-13.5%	
PCB-35 33'4'-TrCB	22.87	3.34E+05	1.02 Y	1.23	1.14	-7.5%	
PCB-37 344'-TrCB	23.21	3.30E+05	1.04 Y	1.28	1.13	-12.3%	
PCB-54 22'66'-TeCB	17.47	3.01E+05	0.76 Y	1.00	0.93	-7.3%	
PCB-50/53 22'46'/22'56'-TeCB	19.33	4.09E+05	0.78 Y	0.82	0.77	-5.4%	
PCB-45 22'36'-TeCB	19.89	1.83E+05	0.81 Y	0.73	0.69	-5.2%	
PCB-51 22'46'-TeCB	19.96	1.83E+05	0.77 Y	0.79	0.69	-13.0%	
PCB-46 22'36'-TeCB	20.16	1.64E+05	0.85 Y	0.66	0.62	-6.1%	
PCB-52 22'55'-TeCB	21.37	1.97E+05	0.81 Y	0.79	0.74	-5.9%	
PCB-73 23'5'6'-TeCB	21.49	2.55E+05	0.78 Y	1.06	0.97	-8.9%	
PCB-43 22'35'-TeCB	21.57	1.73E+05	0.68 Y	0.64	0.65	2.1%	
PCB-69/49 23'46'/22'45'-TeCB	21.76	4.67E+05	0.86 Y	0.95	0.88	-6.9%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:35			
Lab ID:	CS0_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 13:30						
Datafile:	130911S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.02	1.95E+05	0.77 Y	0.79	0.74	-6.4%	
PCB-44/47/65 ...-TeCB	22.23	6.09E+05	0.72 Y	0.84	0.77	-8.7%	
PCB-59/62/75 ...-TeCB	22.49	7.86E+05	0.74 Y	1.07	0.99	-7.7%	
PCB-42 22'34'-TeCB	22.65	1.81E+05	0.75 Y	0.72	0.68	-5.0%	
PCB-41 22'34'-TeCB	22.98	1.56E+05	0.76 Y	0.66	0.59	-10.3%	
PCB-71/40 23'4'6/22'33'-TeCB	23.08	3.92E+05	0.73 Y	0.79	0.74	-6.8%	
PCB-64 23'4'6'-TeCB	23.27	2.91E+05	0.80 Y	1.13	1.10	-3.1%	
PCB-72 23'55'-TeCB	23.98	3.25E+05	0.80 Y	1.31	1.23	-6.1%	
PCB-68 23'45'-TeCB	24.23	3.72E+05	0.73 Y	1.43	1.41	-1.5%	
PCB-57 23'3'5'-TeCB	24.58	3.06E+05	0.81 Y	1.26	1.16	-8.1%	
PCB-58 23'3'5'-TeCB	24.78	3.10E+05	0.82 Y	1.30	1.17	-10.1%	
PCB-67 23'45'-TeCB	24.93	3.31E+05	0.73 Y	1.35	1.25	-7.0%	
PCB-63 23'4'5'-TeCB	25.15	3.37E+05	0.72 Y	1.42	1.27	-10.3%	
PCB-61/70/74/76 ...-TeCB	25.43	1.29E+06	0.82 Y	1.32	1.22	-7.7%	
PCB-66 23'44'-TeCB	25.71	3.16E+05	0.71 Y	1.26	1.20	-5.3%	
PCB-55 23'3'4'-TeCB	25.85	2.94E+05	0.71 Y	1.24	1.11	-10.1%	
PCB-56 23'3'4'-TeCB	26.27	3.02E+05	0.81 Y	1.22	1.14	-6.8%	
PCB-60 23'44'-TeCB	26.46	3.13E+05	0.83 Y	1.29	1.18	-8.0%	
PCB-80 33'55'-TeCB	26.81	3.26E+05	0.89 Y	1.42	1.23	-13.0%	
PCB-79 33'4'5'-TeCB	28.10	3.59E+05	0.85 Y	1.47	1.36	-7.5%	
PCB-78 33'4'5'-TeCB	28.56	3.08E+05	0.84 Y	1.23	1.17	-5.6%	
PCB-104 22'466'-PeCB	22.17	2.95E+05	0.58 Y	1.06	0.97	-8.1%	
PCB-96 22'366'-PeCB	22.48	2.40E+05	0.68 Y	0.90	0.79	-12.2%	
PCB-103 22'45'6'-PeCB	24.13	1.71E+05	0.67 Y	0.84	0.82	-2.1%	
PCB-94 22'356'-PeCB	24.32	1.48E+05	0.60 Y	0.73	0.71	-2.8%	
PCB-95 22'35'6'-PeCB	24.69	1.53E+05	0.58 Y	0.78	0.73	-5.9%	
PCB-100/93 22'44'6/22'356'-PeCB	24.88	3.06E+05	0.65 Y	0.77	0.73	-5.3%	
PCB-102 22'456'-PeCB	25.00	1.63E+05	0.56 Y	0.83	0.78	-5.9%	
PCB-98 22'34'6'-PeCB	25.06	1.48E+05	0.62 Y	0.75	0.71	-5.3%	
PCB-88 22'346'-PeCB	25.34	1.50E+05	0.58 Y	0.74	0.72	-3.0%	
PCB-91 22'34'6'-PeCB	25.42	1.63E+05	0.61 Y	0.83	0.78	-5.7%	
PCB-84 22'33'6'-PeCB	25.61	1.38E+05	0.63 Y	0.66	0.66	0.0%	
PCB-89 22'346'-PeCB	26.01	1.31E+05	0.73 N	0.69	0.63	-9.5%	
PCB-121 23'45'6'-PeCB	26.37	2.11E+05	0.57 Y	1.06	1.01	-4.6%	
PCB-92 22'355'-PeCB	26.69	1.32E+05	0.62 Y	0.73	0.63	-13.0%	
PCB-113/90/101 ...-PeCB	27.16	4.96E+05	0.60 Y	0.85	0.79	-7.0%	
PCB-83 22'33'5'-PeCB	27.58	1.39E+05	0.62 Y	0.65	0.67	3.5%	
PCB-99 22'44'5'-PeCB	27.67	1.67E+05	0.68 Y	0.84	0.80	-5.0%	
PCB-112 23'3'56'-PeCB	27.77	1.90E+05	0.69 Y	1.00	0.91	-8.9%	
PCB-109/119/86/97/125...-PeCB	28.11	1.02E+06	0.63 Y	0.87	0.82	-6.3%	
PCB-117 23'4'56'-PeCB	28.62	1.47E+05	0.66 Y	0.88	0.70	-19.8%	
PCB-116/85 23'456/22'344'-PeCB	28.69	3.75E+05	0.64 Y	0.91	0.90	-1.6%	
PCB-110 23'3'4'6'-PeCB	28.84	1.90E+05	0.62 Y	0.99	0.91	-7.8%	

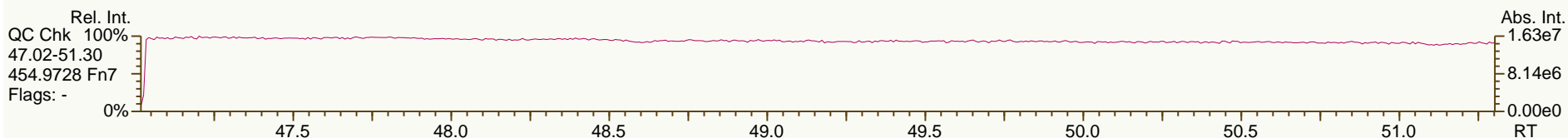
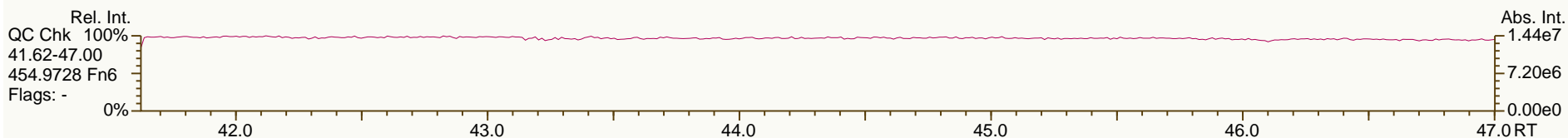
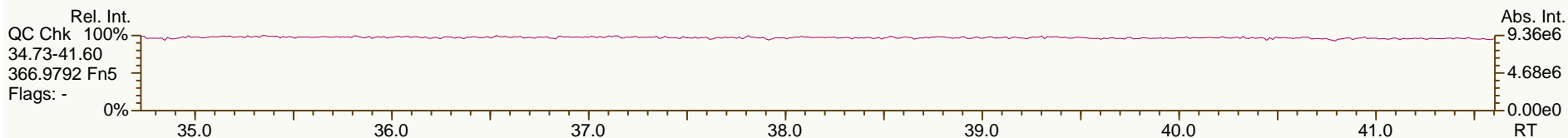
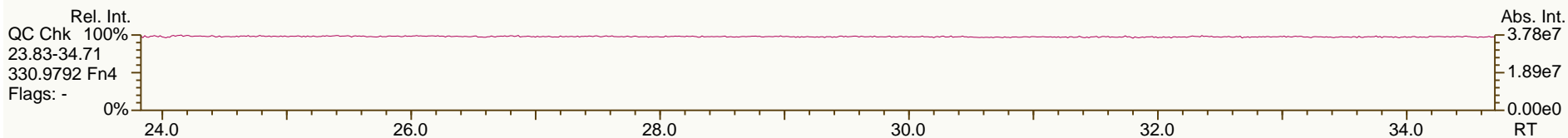
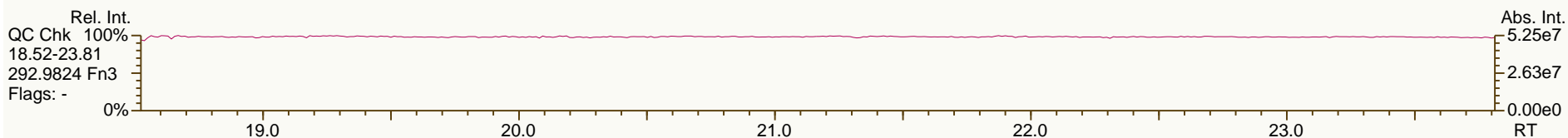
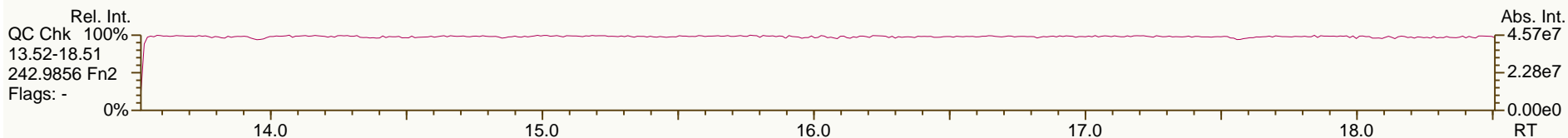
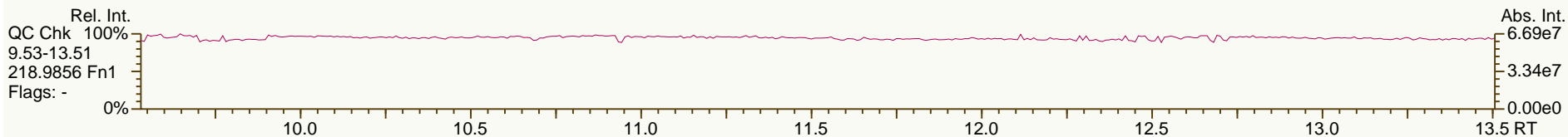
PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:35			
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Acquired:	11-SEP-2013 13:30						
Datafile:	130911S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	28.91	2.01E+05	0.60 Y	1.01	0.96	-4.8%	
PCB-82 22'33'4-PeCB	29.11	1.20E+05	0.66 Y	0.62	0.58	-7.8%	
PCB-111 233'55'-PeCB	29.45	2.13E+05	0.66 Y	1.07	1.02	-4.4%	
PCB-120 23'455'-PeCB	29.84	2.20E+05	0.64 Y	1.07	1.05	-1.9%	
PCB-108/124 ...-PeCB	30.79	3.81E+05	0.57 Y	0.98	0.91	-7.1%	
PCB-107 233'4'5-PeCB	30.99	1.79E+05	0.61 Y	1.07	0.86	-19.5%	
PCB-106 233'45-PeCB	31.19	2.01E+05	0.68 Y	1.00	0.96	-3.7%	
PCB-122 233'4'5'-PeCB	31.66	1.78E+05	0.62 Y	0.89	0.81	-8.7%	
PCB-127 33'455'-PeCB	33.61	1.90E+05	0.61 Y	0.98	0.88	-10.6%	
PCB-155 22'44'66'-HxCB	26.99	2.67E+05	1.19 Y	1.12	1.02	-9.3%	
PCB-152 22'3566'-HxCB	27.15	2.54E+05	1.31 Y	1.05	0.97	-7.9%	
PCB-150 22'34'66'-HxCB	27.29	2.74E+05	1.39 Y	1.07	1.04	-2.1%	
PCB-136 22'33'66'-HxCB	27.59	2.48E+05	1.22 Y	0.99	0.94	-4.6%	
PCB-145 22'3466'-HxCB	27.85	2.46E+05	1.18 Y	1.00	0.94	-5.6%	
PCB-148 22'34'56'-HxCB	29.13	1.85E+05	1.25 Y	1.03	0.95	-7.5%	
PCB-151/135 ...-HxCB	29.64	3.85E+05	1.19 Y	1.00	0.99	-0.8%	
PCB-154 22'44'56'-HxCB	29.84	2.08E+05	1.28 Y	1.13	1.07	-5.1%	
PCB-144 22'345'6'-HxCB	30.10	2.04E+05	1.31 Y	1.03	1.05	1.8%	
PCB-147/149 ...-HxCB	30.40	4.00E+05	1.29 Y	1.03	1.03	0.3%	
PCB-134 22'33'56'-HxCB	30.57	1.57E+05	1.31 Y	0.84	0.81	-3.3%	
PCB-143 22'3456'-HxCB	30.65	1.60E+05	1.08 Y	0.95	0.83	-12.9%	
PCB-139/140 ...-HxCB	30.91	3.93E+05	1.17 Y	1.05	1.01	-3.6%	
PCB-131 22'33'46'-HxCB	31.08	1.51E+05	1.05 N	0.87	0.78	-11.3%	
PCB-142 22'3456'-HxCB	31.20	1.71E+05	1.21 Y	0.91	0.88	-3.3%	
PCB-132 22'33'46'-HxCB	31.46	1.76E+05	1.11 Y	0.92	0.90	-1.6%	
PCB-133 22'33'55'-HxCB	31.89	1.88E+05	1.18 Y	0.97	0.97	0.3%	
PCB-165 233'55'6'-HxCB	32.23	2.25E+05	1.11 Y	1.19	1.16	-3.3%	
PCB-146 22'34'55'-HxCB	32.43	2.07E+05	1.19 Y	1.08	1.06	-1.9%	
PCB-161 233'45'6'-HxCB	32.55	2.40E+05	1.34 Y	1.34	1.24	-8.0%	
PCB-153/168 ...-HxCB	32.97	4.60E+05	1.14 Y	1.26	1.18	-5.9%	
PCB-141 22'3455'-HxCB	33.11	1.85E+05	1.15 Y	0.98	0.95	-3.1%	
PCB-130 22'33'45'-HxCB	33.45	1.59E+05	1.09 Y	0.88	0.82	-6.5%	
PCB-137 22'344'5'-HxCB	33.64	2.08E+05	1.22 Y	1.07	1.07	-0.1%	
PCB-164 233'4'5'6'-HxCB	33.74	2.31E+05	1.27 Y	1.29	1.19	-8.1%	
PCB-163/138/129 ...-HxCB	34.02	5.80E+05	1.25 Y	1.05	0.99	-5.0%	
PCB-160 233'456'-HxCB	34.13	2.22E+05	1.23 Y	1.26	1.14	-9.2%	
PCB-158 233'44'6'-HxCB	34.33	2.49E+05	1.22 Y	1.40	1.28	-8.4%	
PCB-128/166 ...-HxCB	35.04	3.34E+05	1.26 Y	0.89	0.85	-3.9%	
PCB-159 233'455'-HxCB	35.89	1.91E+05	1.18 Y	1.04	0.98	-6.3%	
PCB-162 233'4'55'-HxCB	36.13	2.01E+05	1.29 Y	1.04	1.02	-1.3%	
PCB-188 22'34'566'-HpCB	31.81	2.68E+05	1.03 Y	0.97	0.90	-7.0%	
PCB-179 22'33'566'-HpCB	32.10	2.50E+05	1.09 Y	0.89	0.84	-5.8%	
PCB-184 22'344'66'-HpCB	32.54	2.20E+05	1.01 Y	0.87	0.74	-15.2%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:35			
Lab ID:	CS0_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 13:30						
Datafile:	130911S03						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	32.84	2.76E+05	1.01 Y	0.97	0.93	-3.8%	
PCB-186 22'34566'-HpCB	33.22	2.64E+05	1.10 Y	0.93	0.89	-5.0%	
PCB-178 22'33'55'6'-HpCB	34.38	1.87E+05	0.99 Y	0.67	0.63	-6.4%	
PCB-175 22'33'45'6'-HpCB	34.91	1.62E+05	1.10 Y	0.97	0.93	-4.9%	
PCB-187 22'34'55'6'-HpCB	35.14	1.71E+05	0.99 Y	1.02	0.98	-3.9%	
PCB-182 22'344'56'-HpCB	35.31	1.88E+05	1.06 Y	1.05	1.07	2.3%	
PCB-183 22'344'5'6'-HpCB	35.66	1.93E+05	1.01 Y	1.07	1.10	3.4%	
PCB-185 22'3455'6'-HpCB	35.74	1.57E+05	1.13 Y	0.96	0.90	-6.3%	
PCB-174 22'33'456'-HpCB	35.86	1.29E+05	1.15 Y	0.86	0.74	-13.5%	
PCB-177 22'33'45'6'-HpCB	36.23	1.29E+05	1.02 Y	0.83	0.74	-11.1%	
PCB-181 22'344'56'-HpCB	36.55	1.65E+05	1.04 Y	1.00	0.94	-5.4%	
PCB-171/173 ...-HpCB	36.74	2.89E+05	1.13 Y	0.86	0.83	-4.2%	
PCB-172 22'33'455'-HpCB	38.12	1.40E+05	1.16 Y	0.87	0.80	-8.4%	
PCB-192 233'455'6'-HpCB	38.35	1.98E+05	1.07 Y	1.19	1.14	-4.3%	
PCB-180/193 ...-HpCB	38.64	3.72E+05	0.93 Y	1.11	1.06	-4.3%	
PCB-191 233'44'5'6'-HpCB	38.96	1.97E+05	1.09 Y	1.23	1.13	-8.4%	
PCB-170 22'33'44'5'-HpCB	39.72	1.41E+05	1.06 Y	1.01	0.93	-7.6%	
PCB-190 233'44'56'-HpCB	40.16	2.11E+05	1.12 Y	1.42	1.39	-1.8%	
PCB-202 22'33'55'66'-OcCB	36.33	1.76E+05	0.90 Y	0.83	0.73	-12.5%	
PCB-201 22'33'45'66'-OcCB	37.10	2.16E+05	0.85 Y	0.94	0.89	-5.4%	
PCB-204 22'344'566'-OcCB	37.67	1.93E+05	0.89 Y	0.87	0.80	-8.6%	
PCB-197 22'33'44'66'-OcCB	37.87	2.33E+05	0.98 Y	0.97	0.96	-1.2%	
PCB-200 22'33'4566'-OcCB	37.95	1.79E+05	0.83 Y	0.89	0.74	-16.7%	
PCB-198/199 ...-OcCB	40.29	2.98E+05	0.86 Y	0.66	0.62	-6.0%	
PCB-196 22'33'44'56'-OcCB	40.86	1.68E+05	0.80 Y	0.70	0.69	-1.3%	
PCB-203 22'344'55'6'-OcCB	41.03	1.77E+05	0.87 Y	0.74	0.73	-0.6%	
PCB-195 22'33'44'56'-OcCB	42.14	1.14E+05	1.02 Y	0.78	0.75	-3.7%	
PCB-194 22'33'44'55'-OcCB	44.10	1.26E+05	0.85 Y	0.85	0.83	-2.6%	
PCB-205 233'44'55'6'-OcCB	44.50	1.63E+05	1.01 Y	1.08	1.07	-0.8%	
PCB-208 22'33'455'66'-NoCB	41.94	1.78E+05	0.75 Y	0.99	1.01	2.0%	
PCB-207 22'33'44'566'-NoCB	42.72	1.79E+05	0.82 Y	1.03	1.02	-0.5%	
PCB-206 22'33'44'55'6'-NoCB	45.96	1.23E+05	0.84 Y	0.83	0.81	-2.4%	

SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

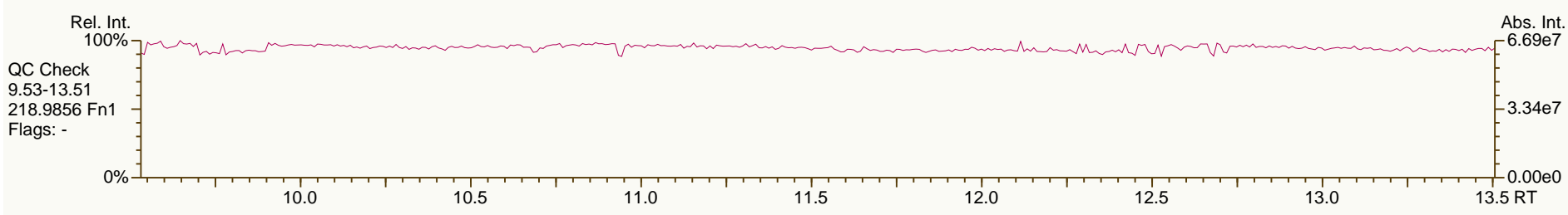
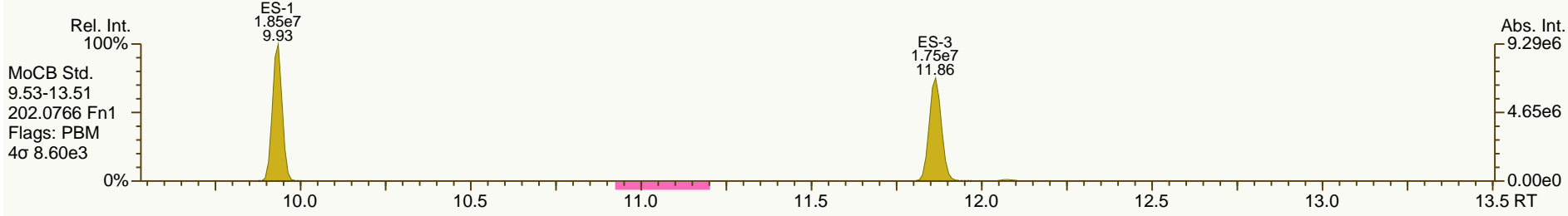
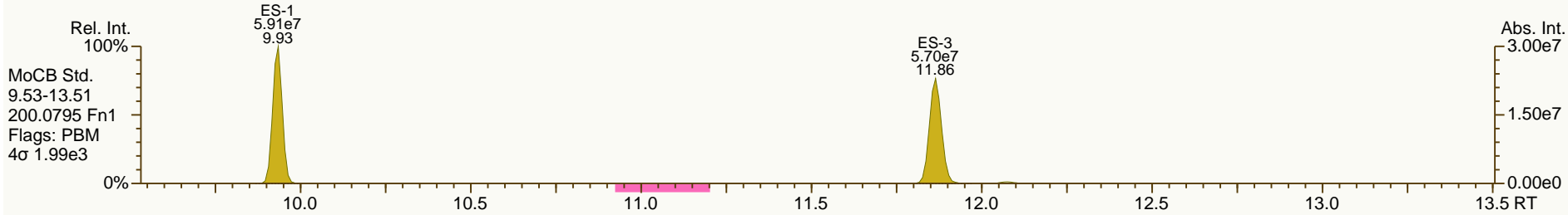
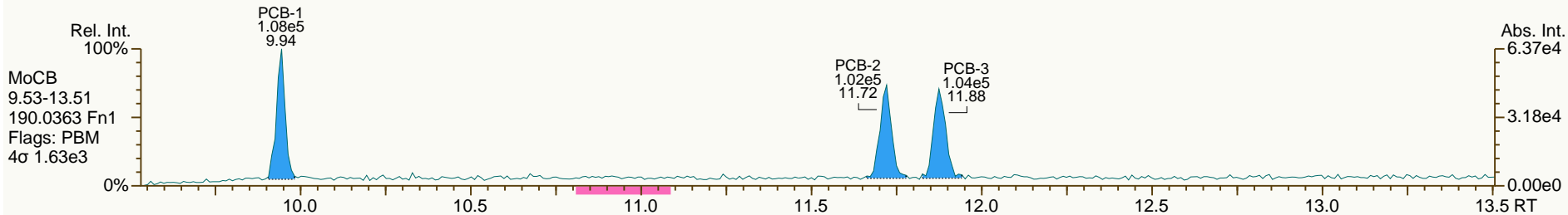
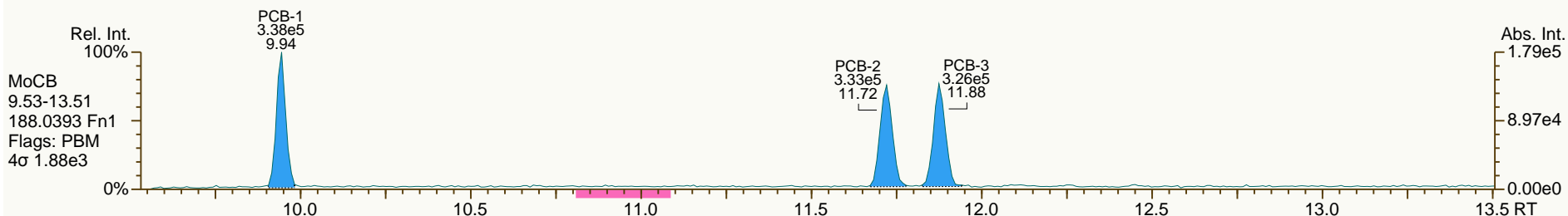
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

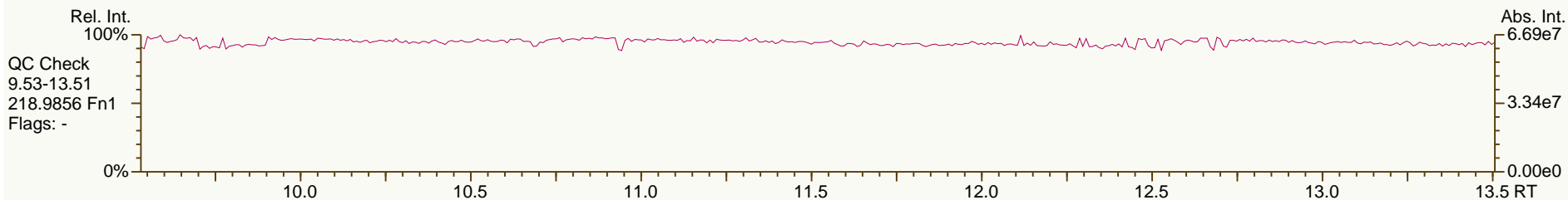
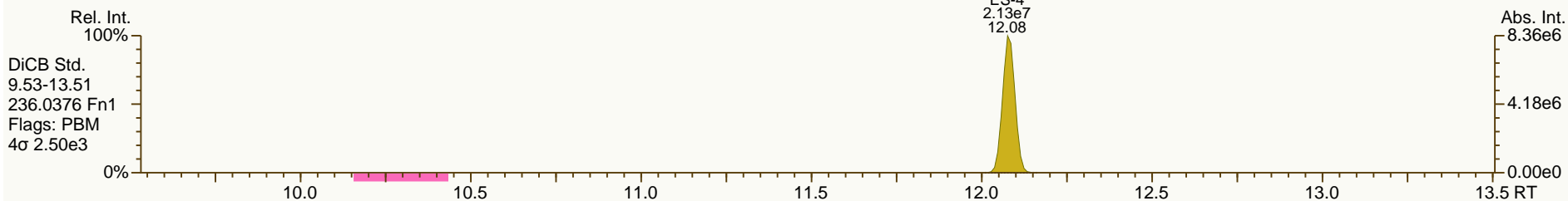
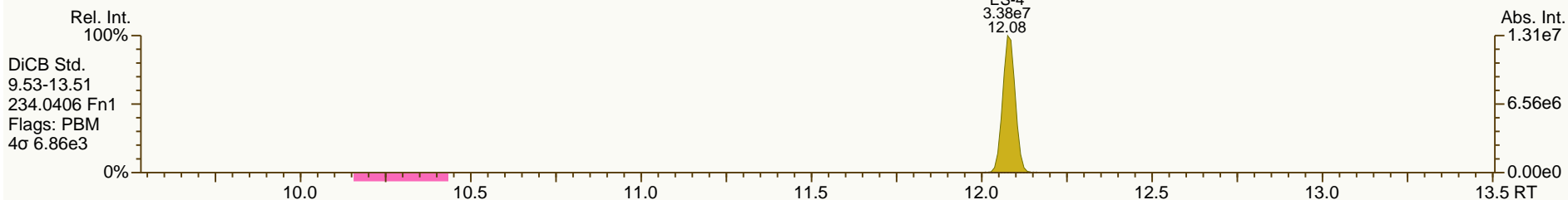
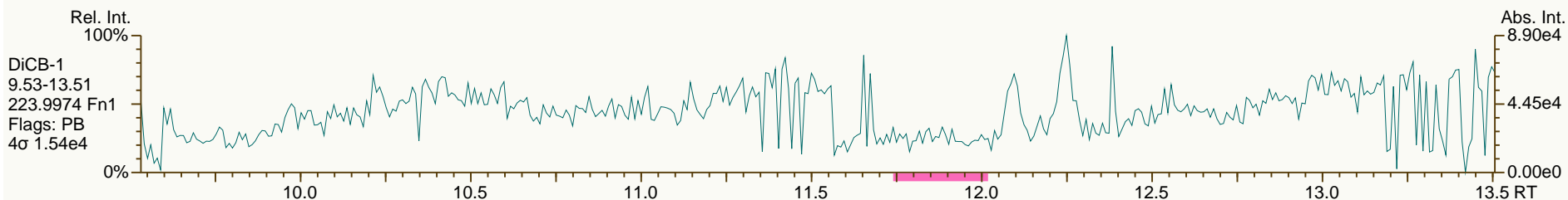
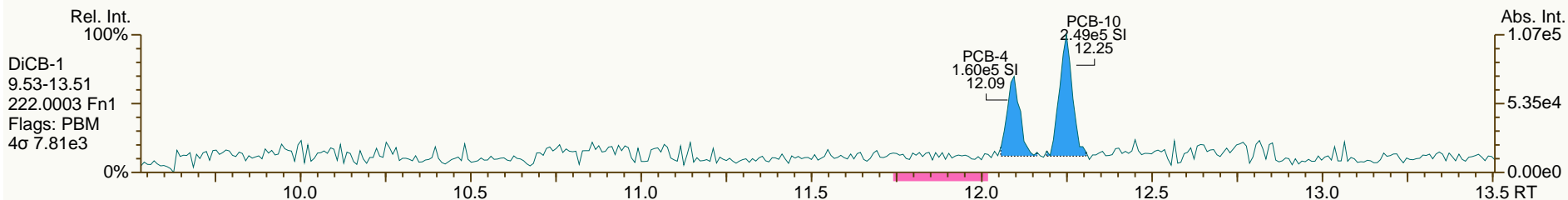
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

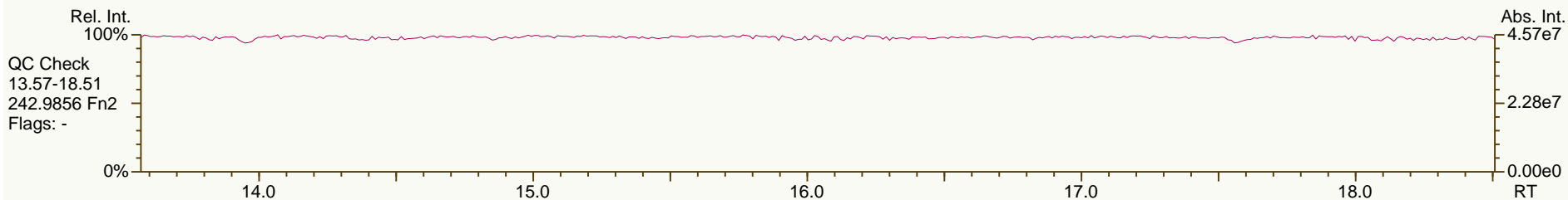
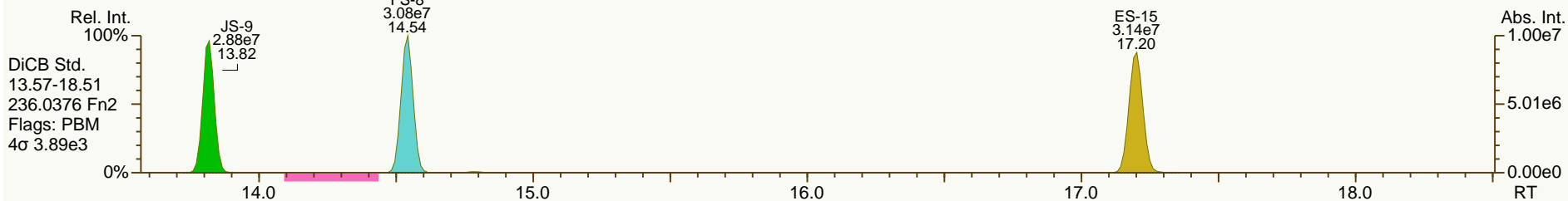
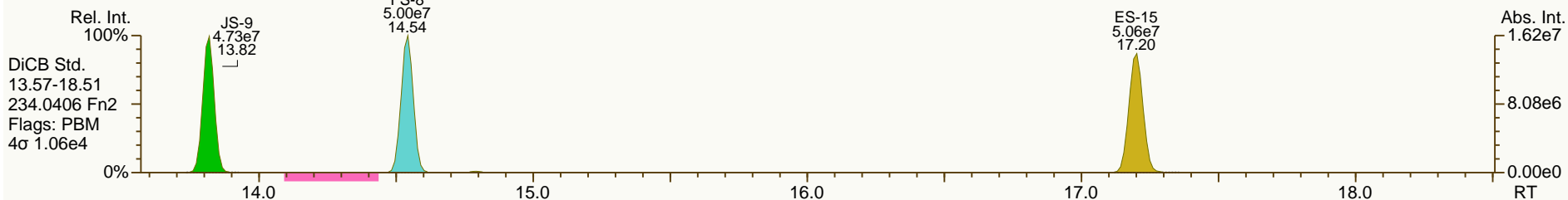
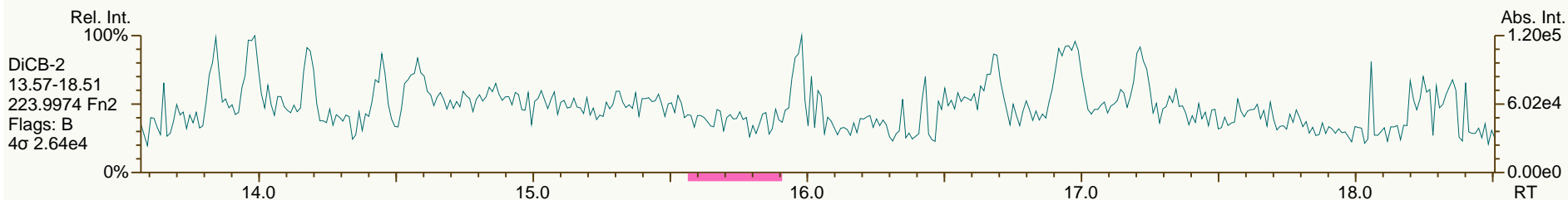
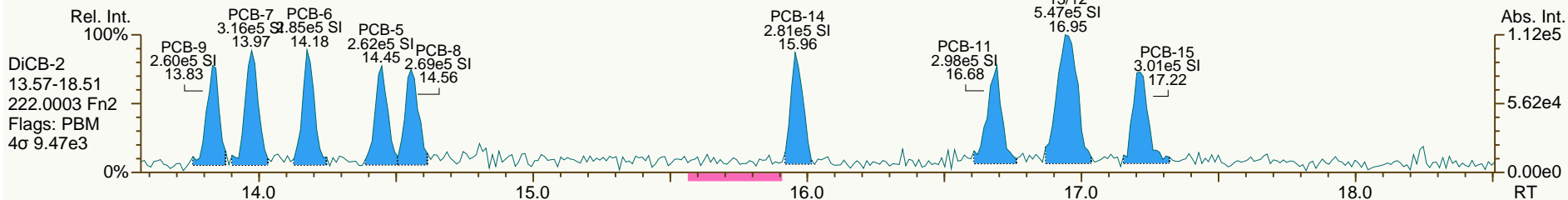
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

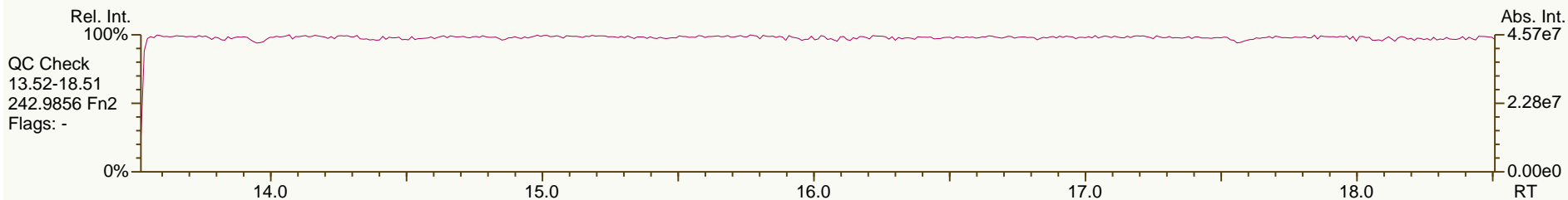
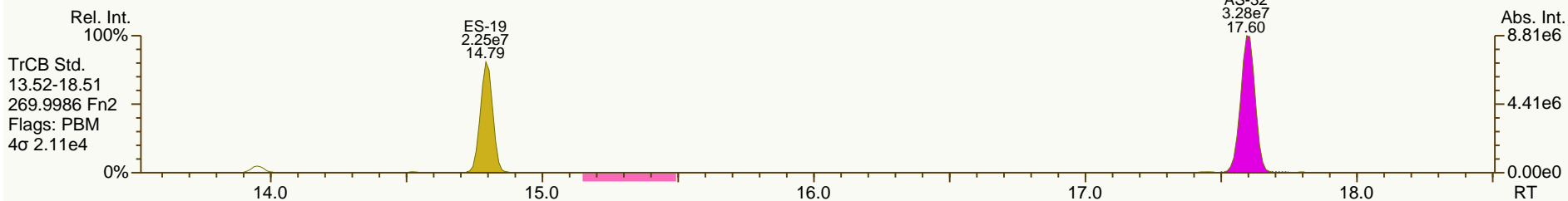
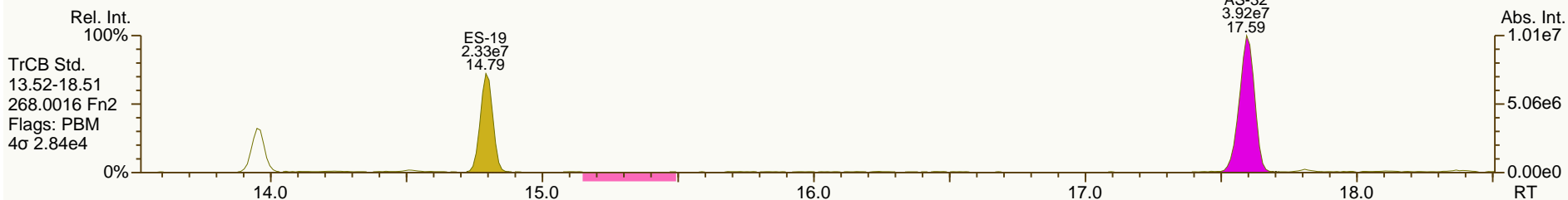
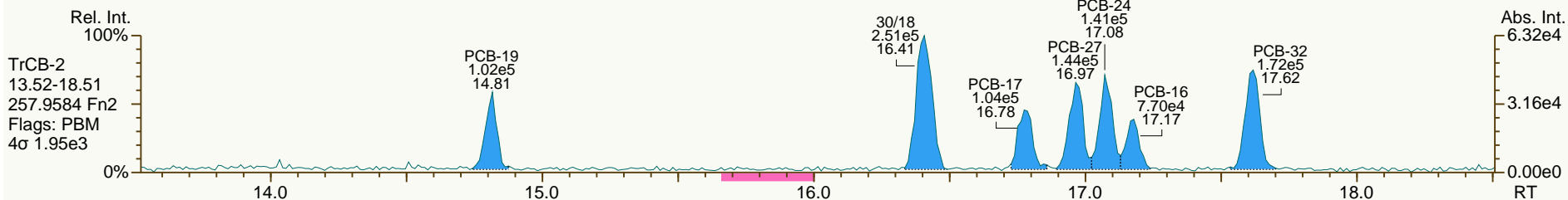
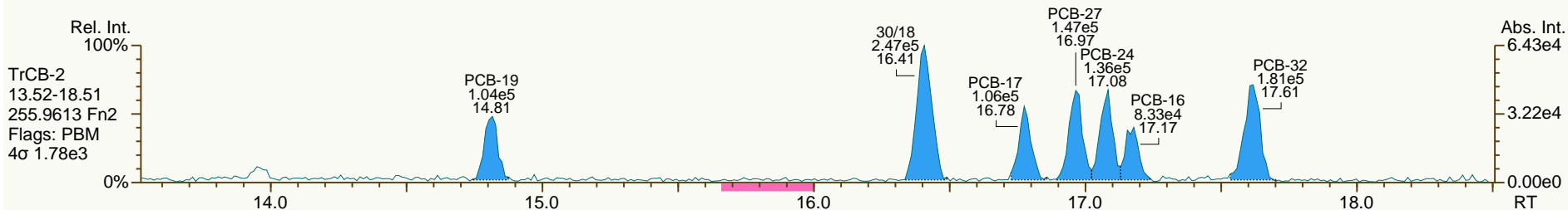
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

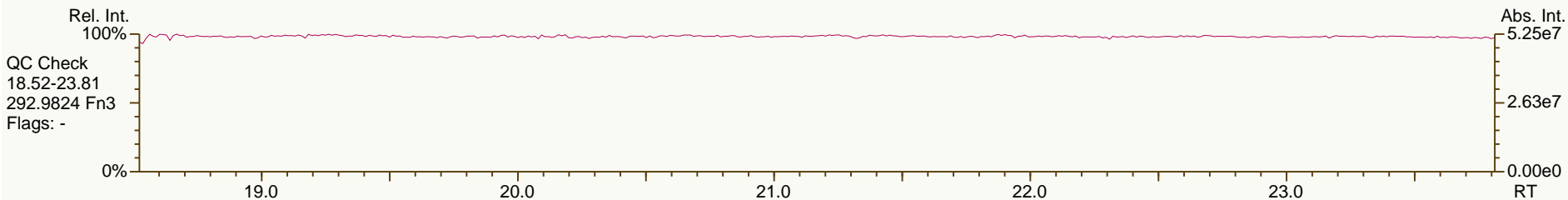
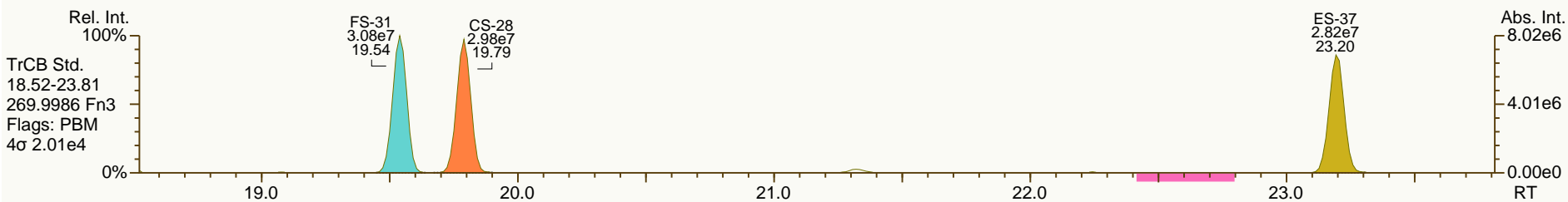
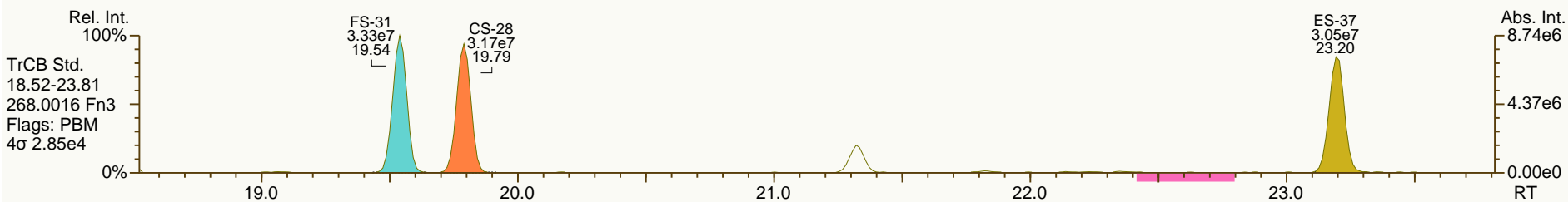
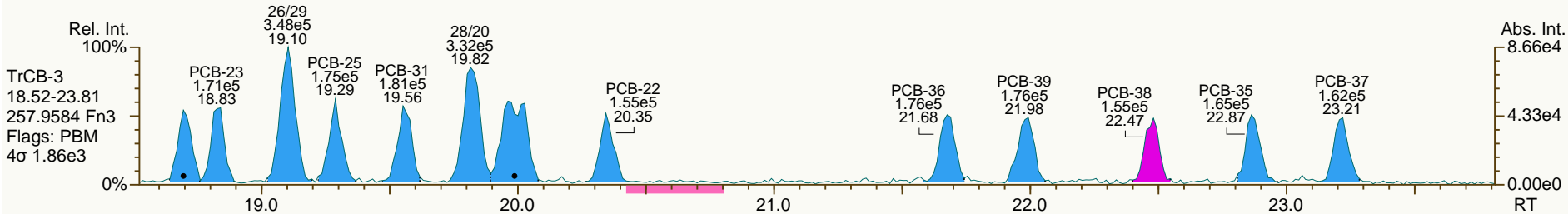
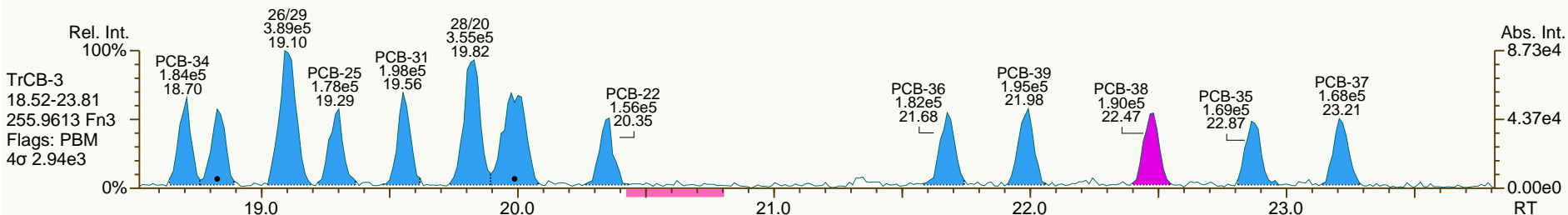
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SGS-AP ID: CS0_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

Acq: 11-Sep-2013 13:30:11
User: CTW Datafile: 130911S03



SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

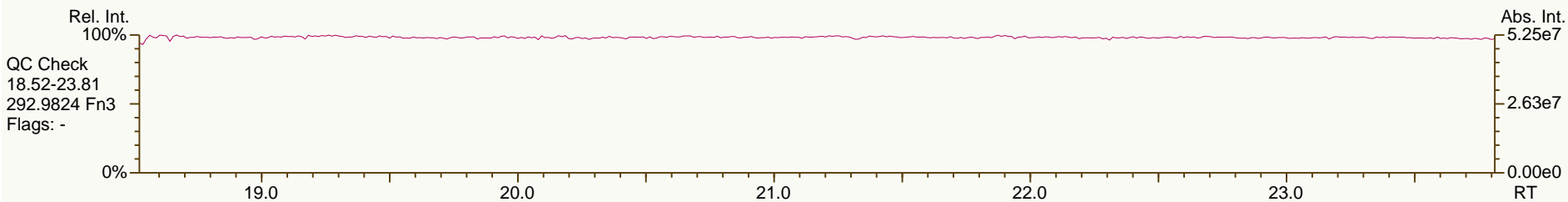
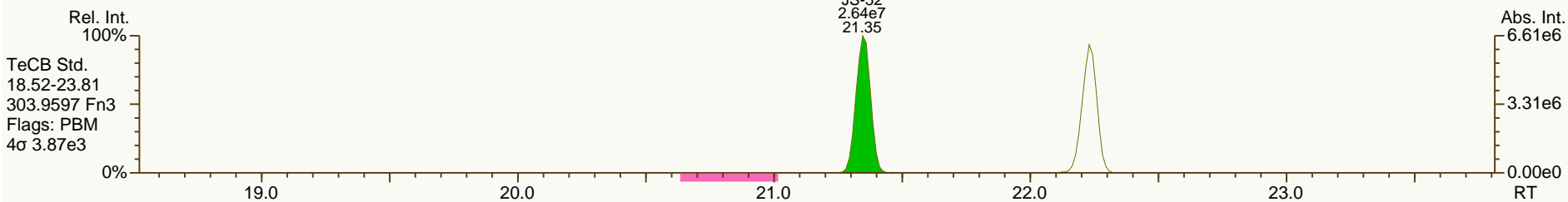
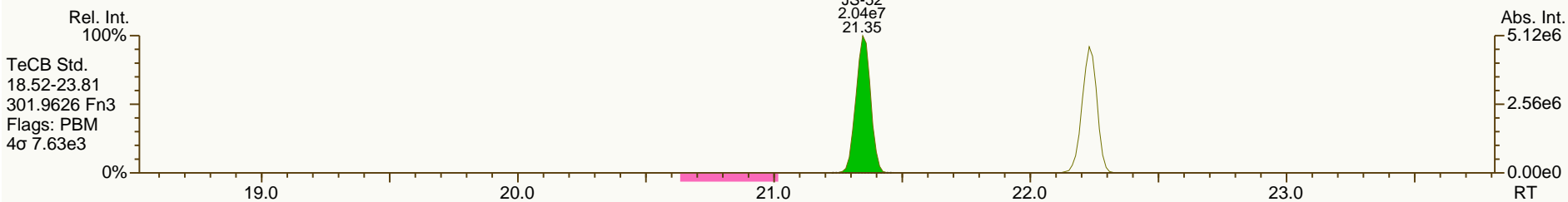
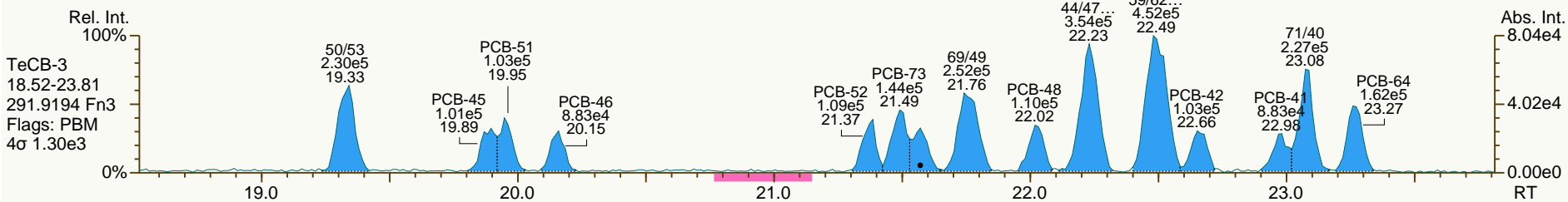
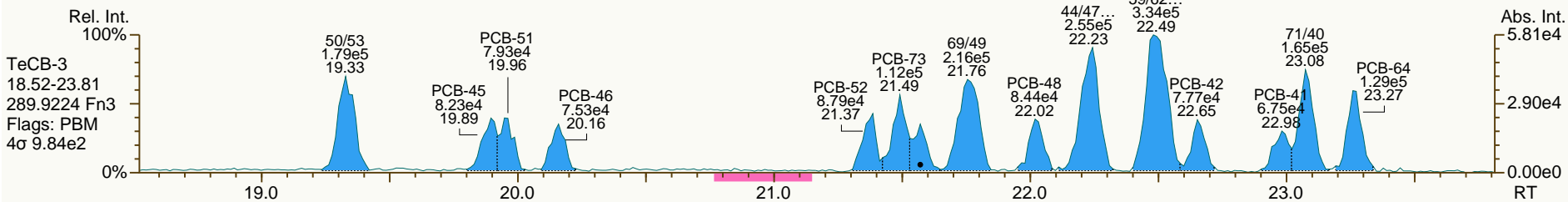
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 User: CTW Datafile: 130911S03



SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

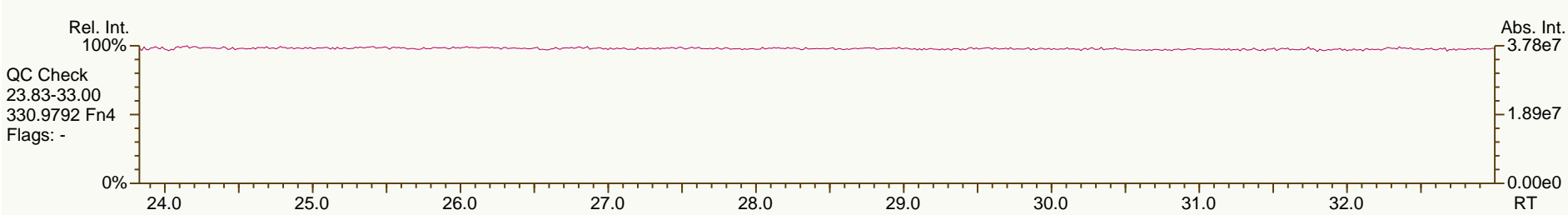
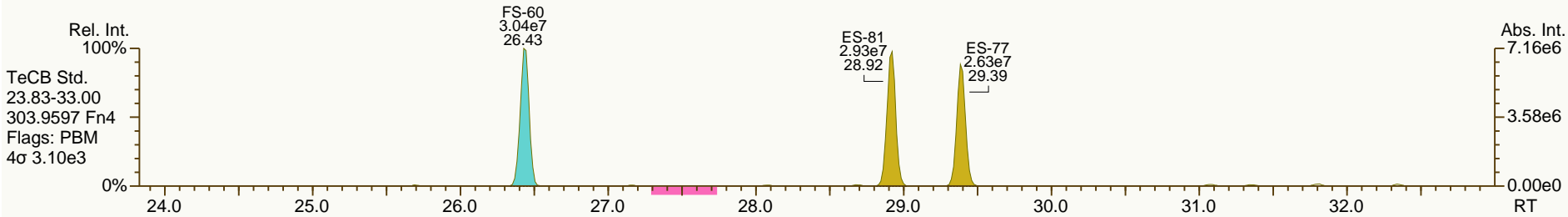
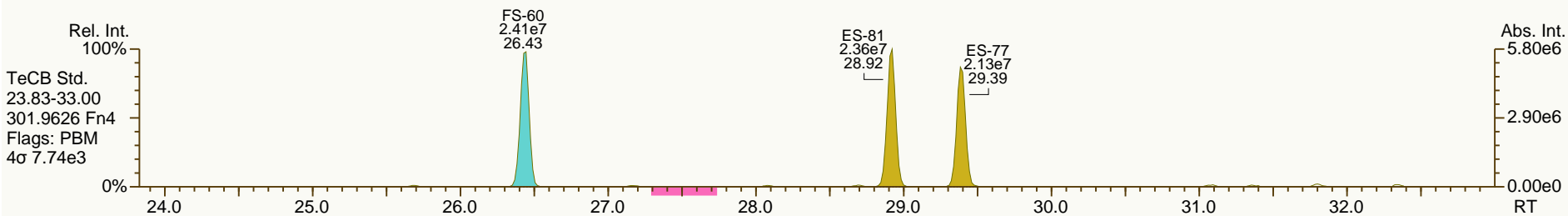
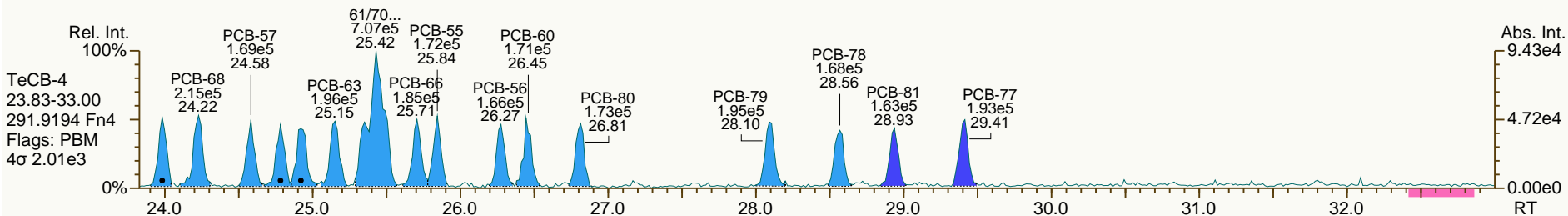
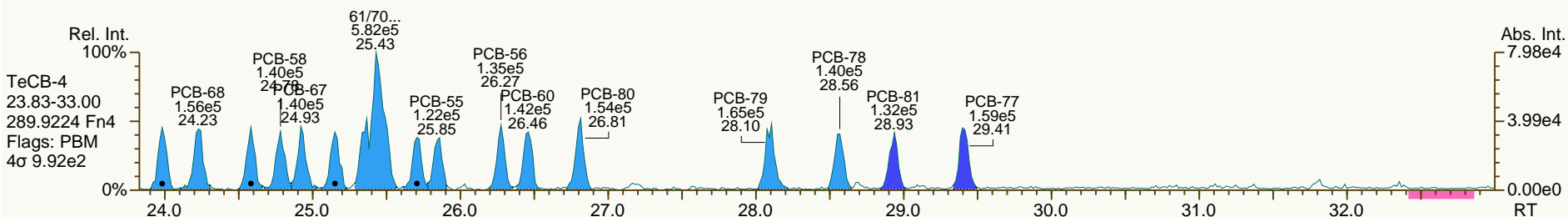
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 User: CTW Datafile: 130911S03



SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

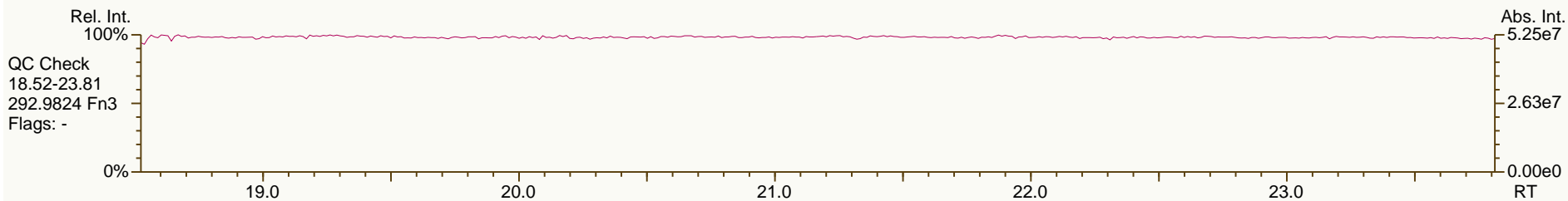
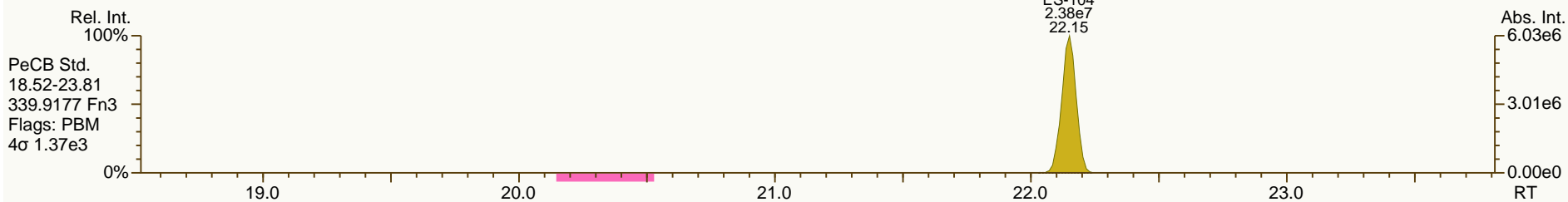
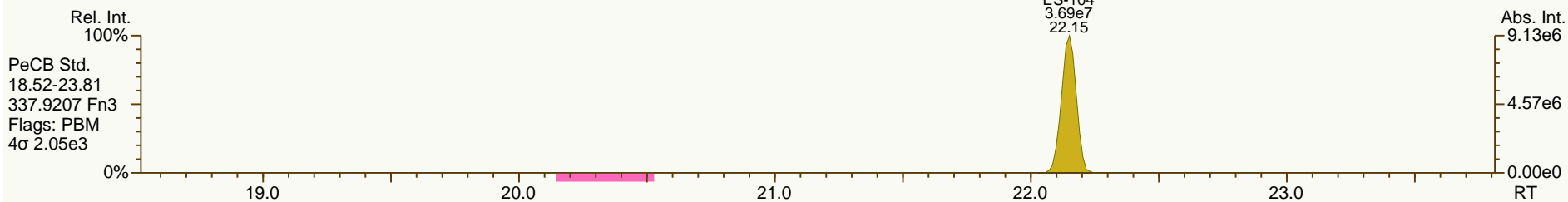
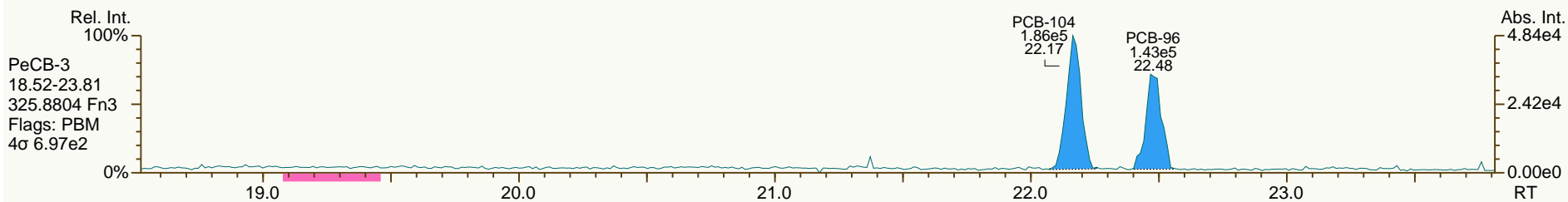
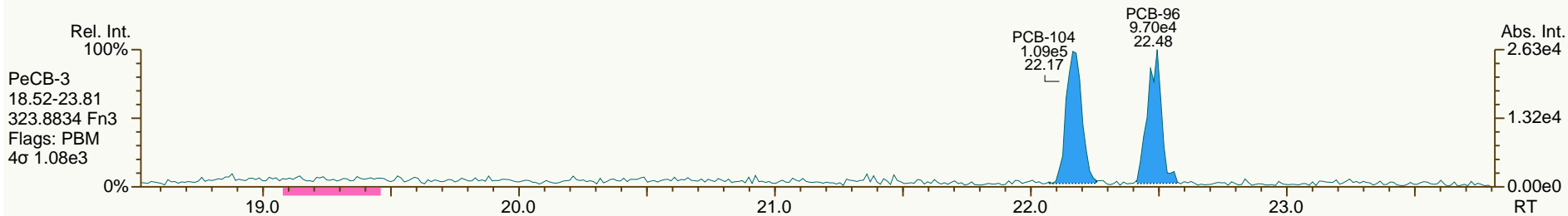
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
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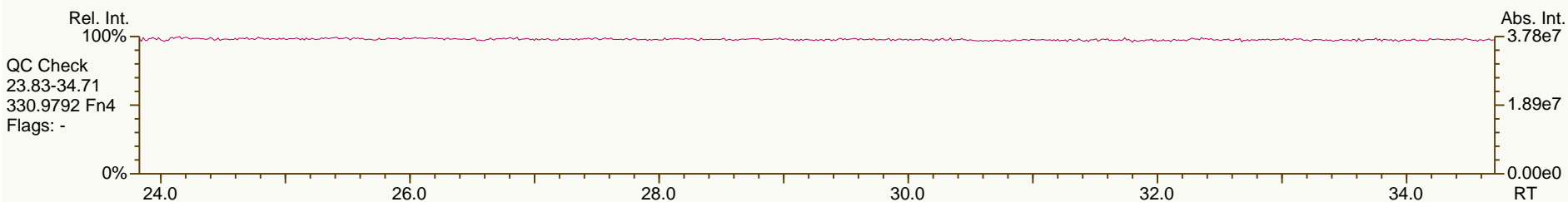
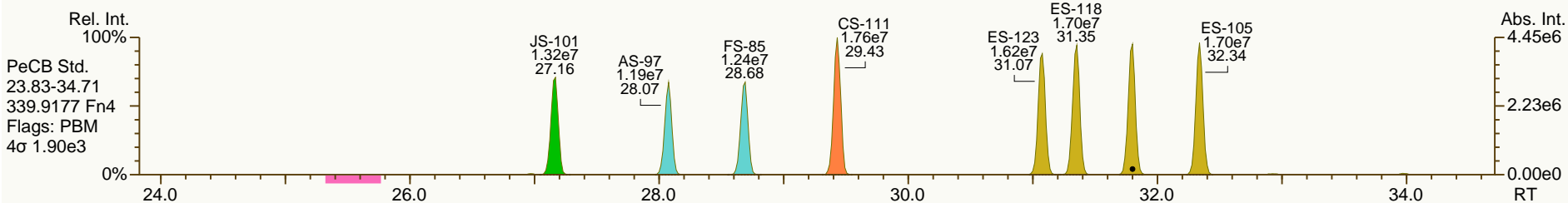
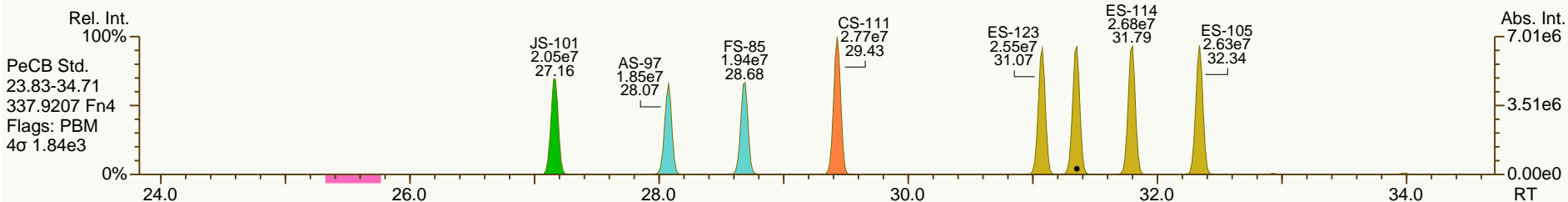
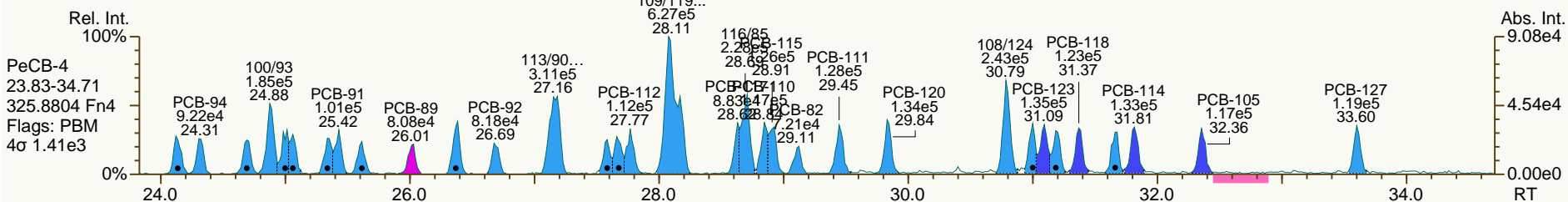
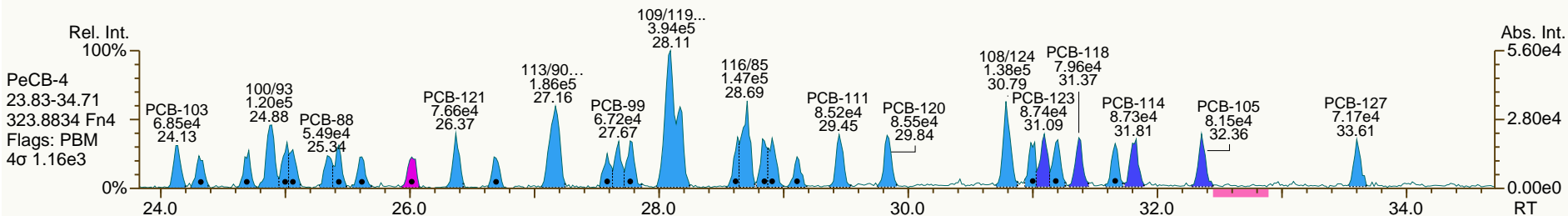
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SGS-AP ID: CS0_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

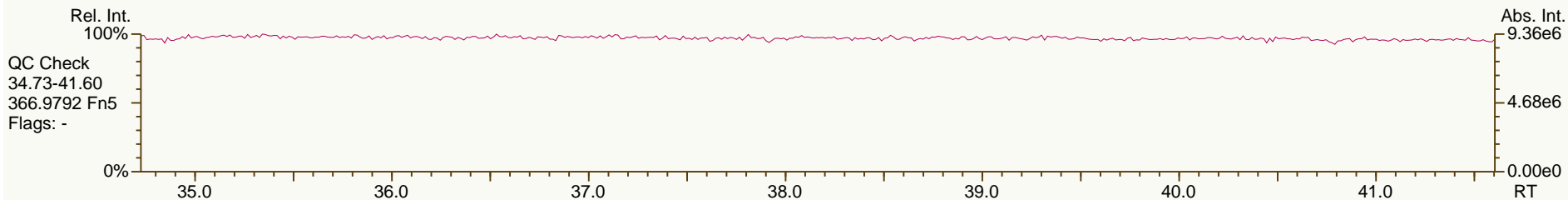
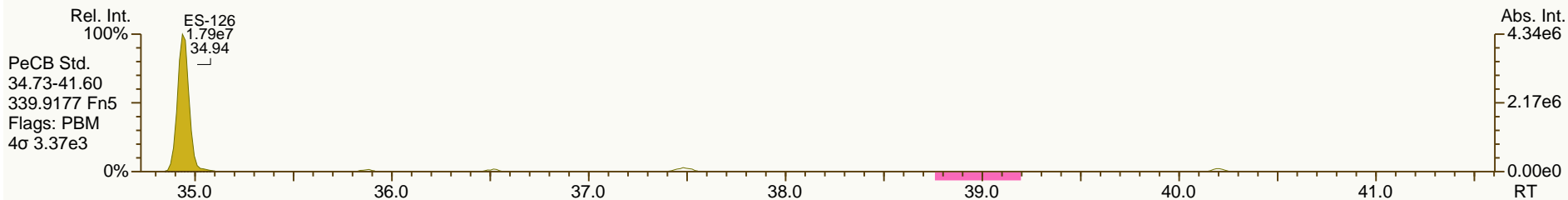
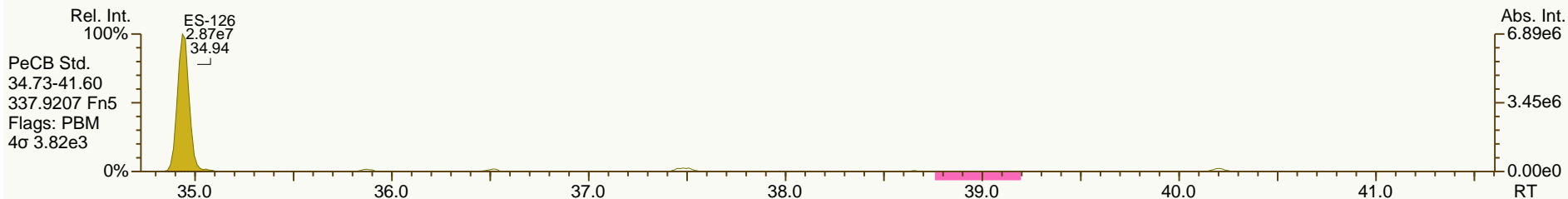
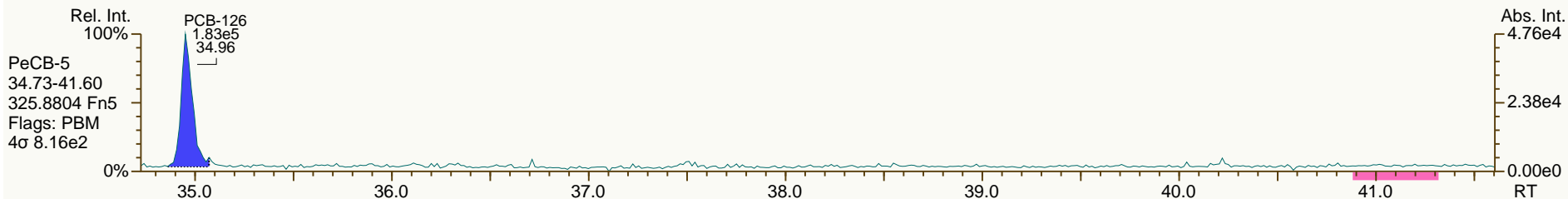
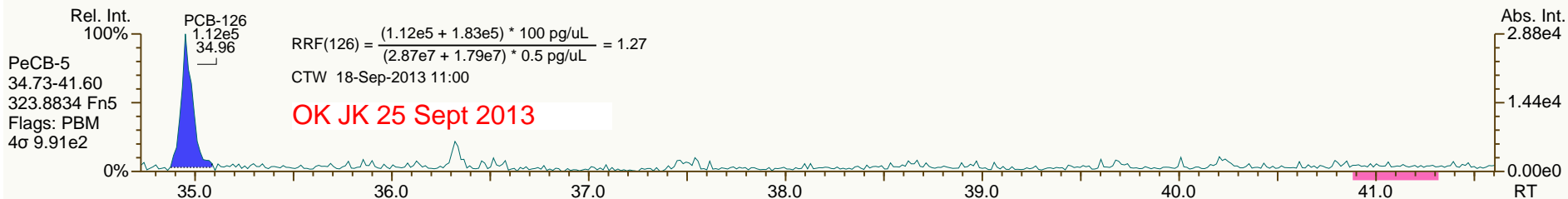
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

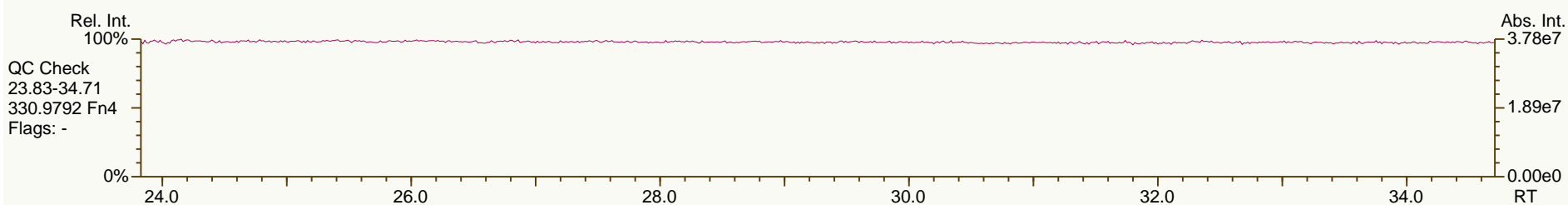
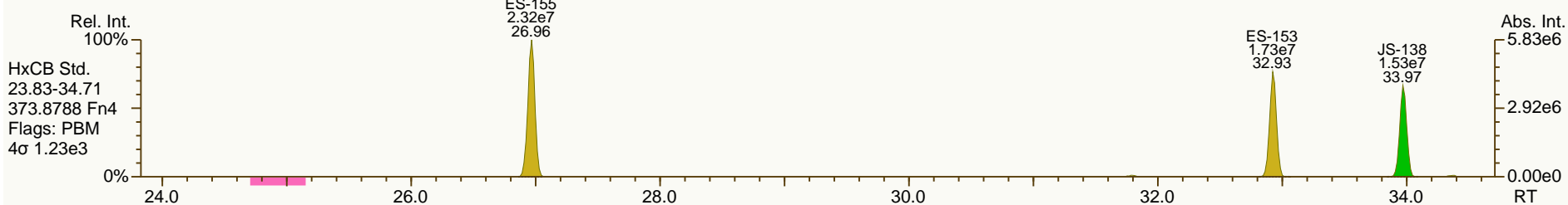
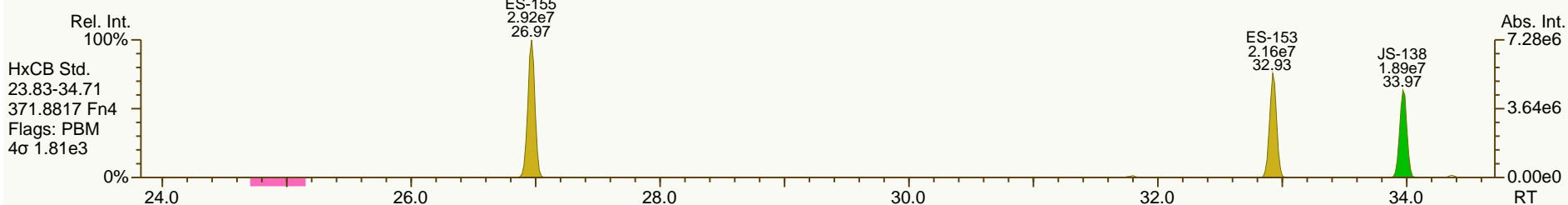
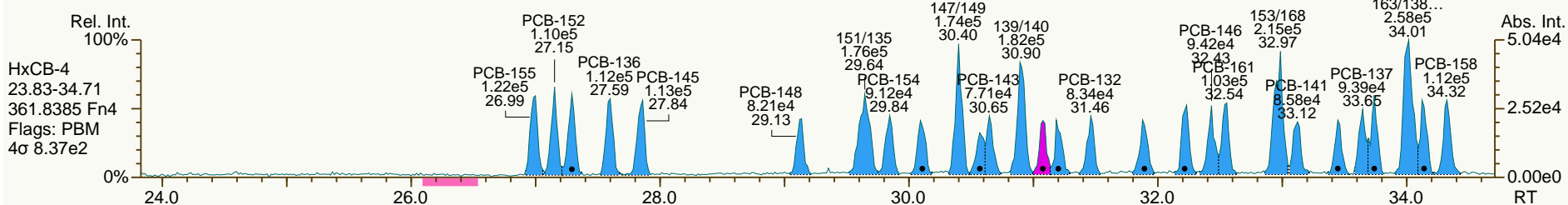
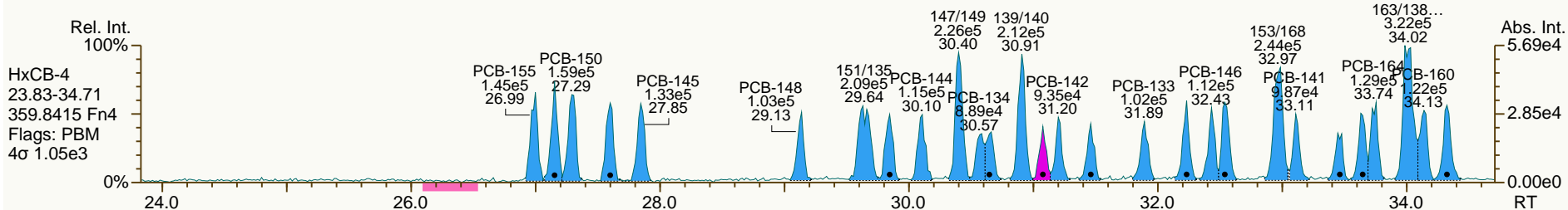
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

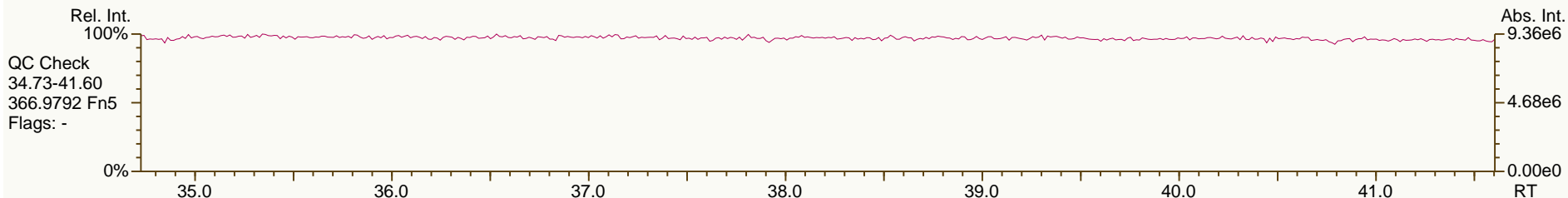
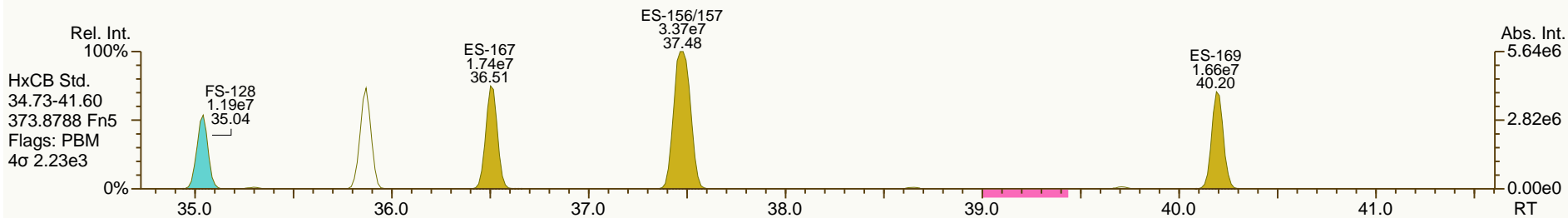
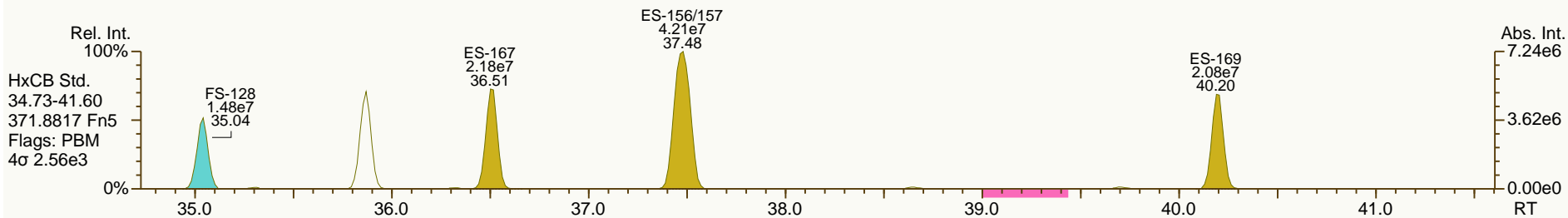
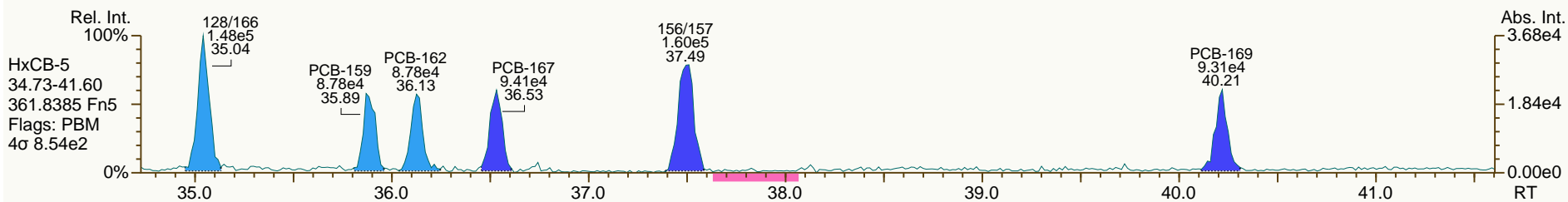
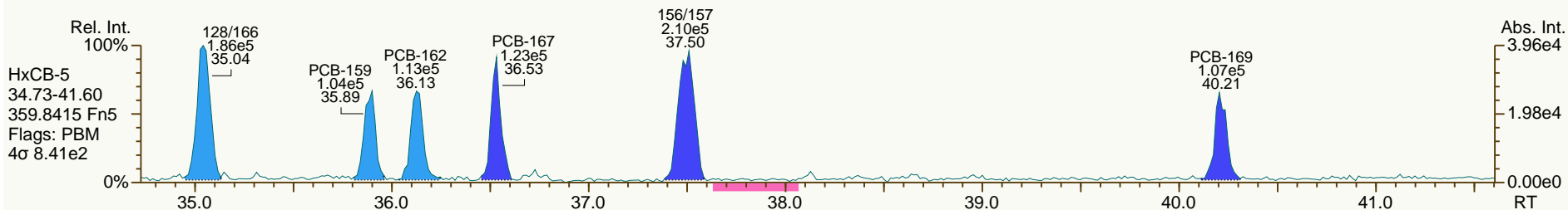
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

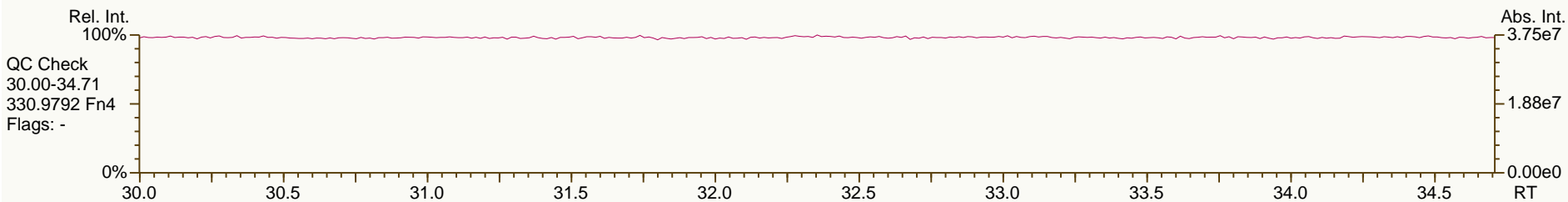
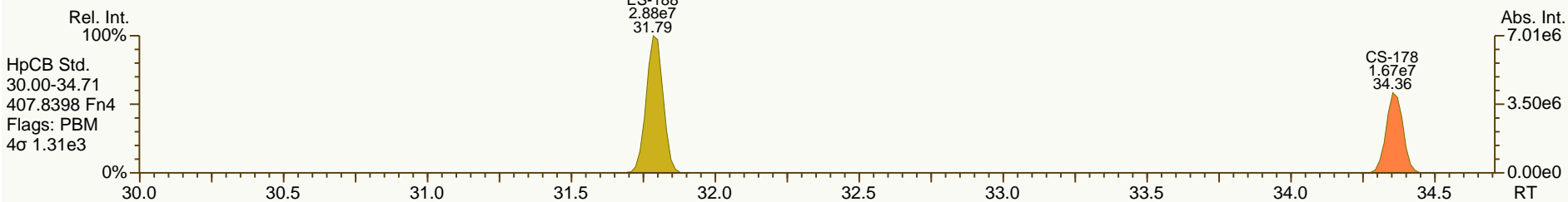
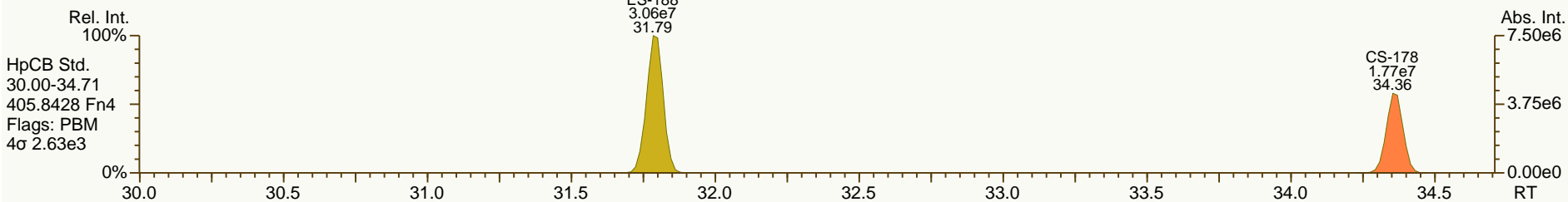
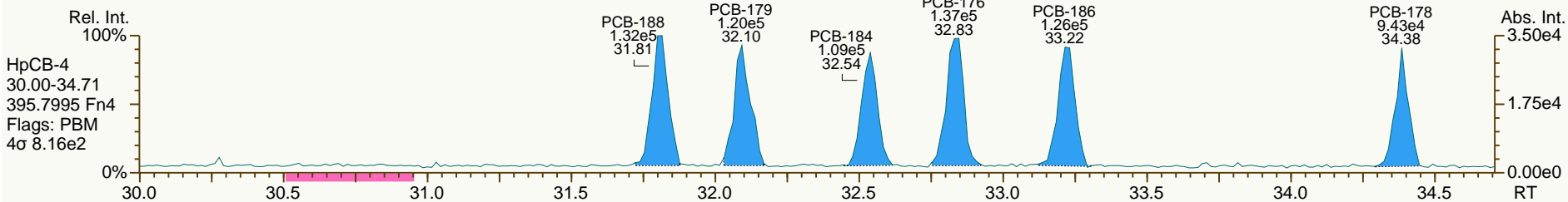
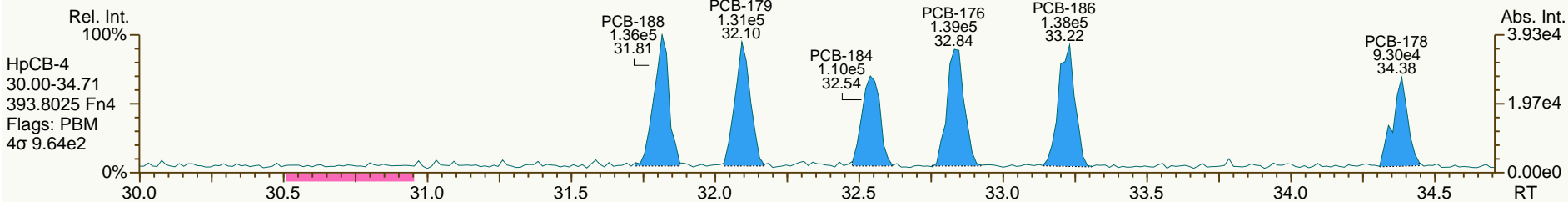
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SGS-AP ID: CS0_130911_PCB_SB
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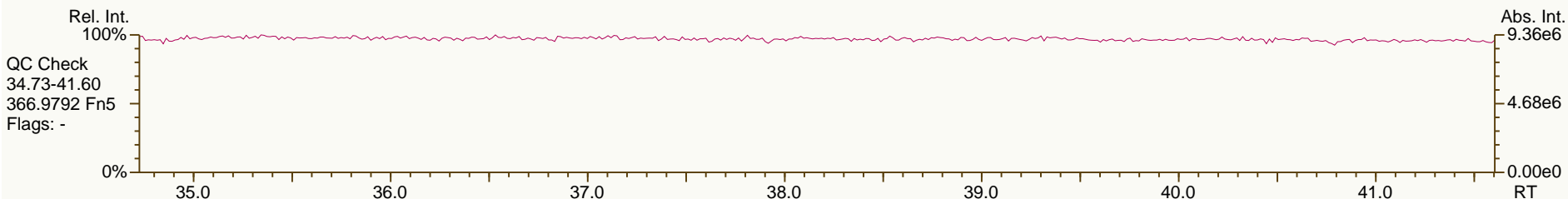
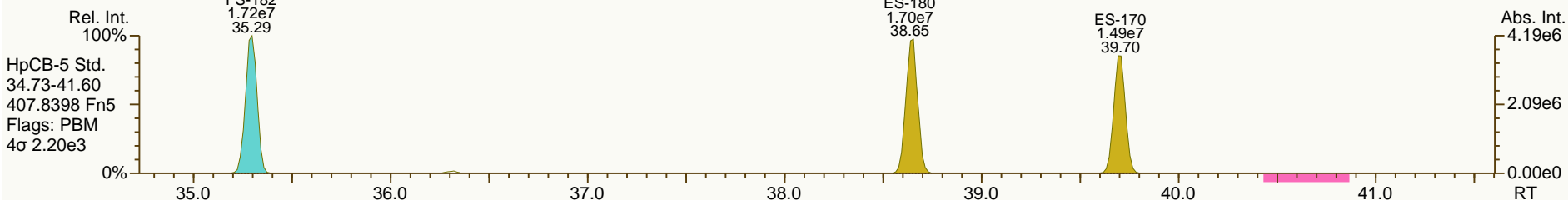
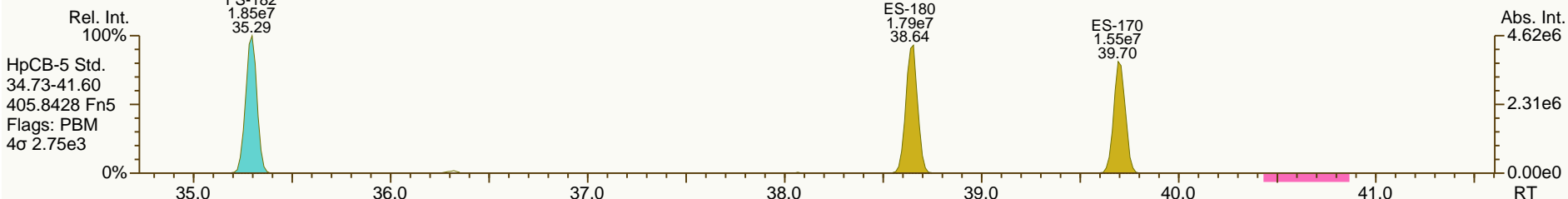
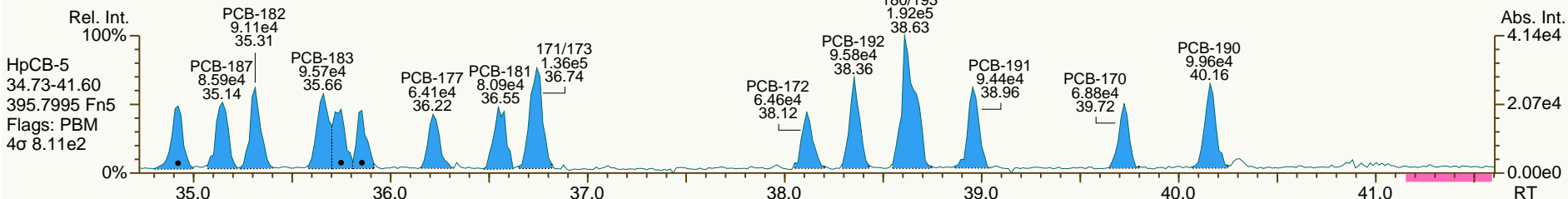
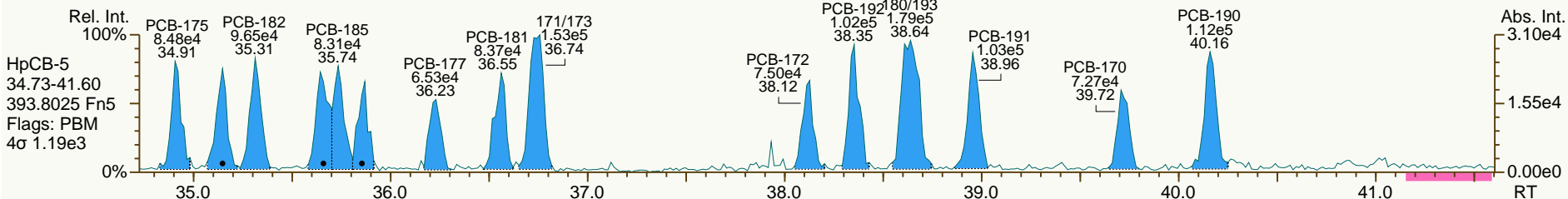
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
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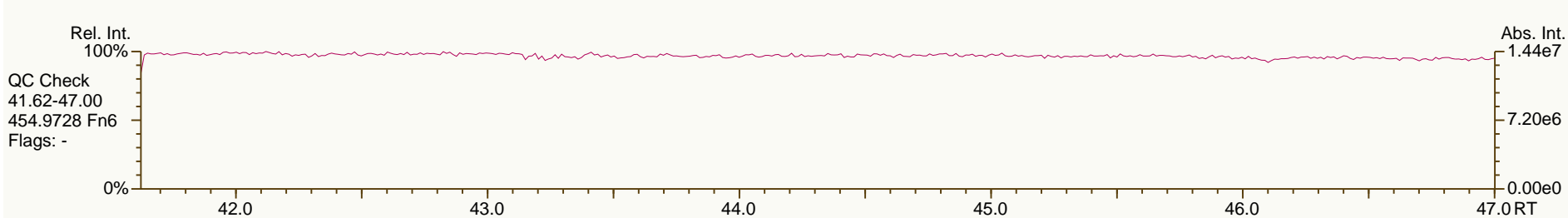
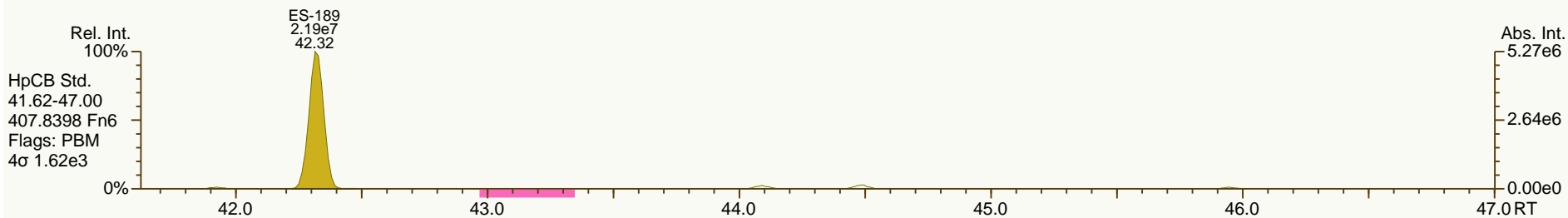
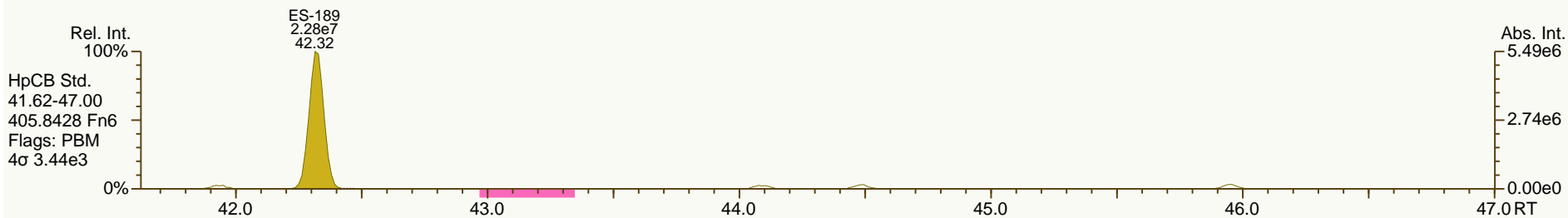
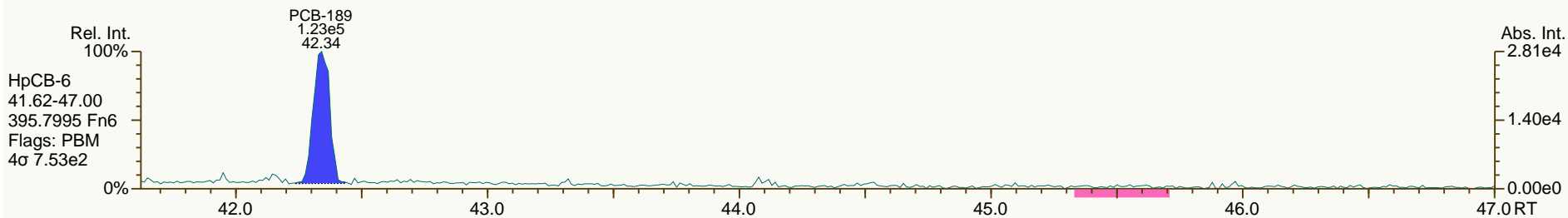
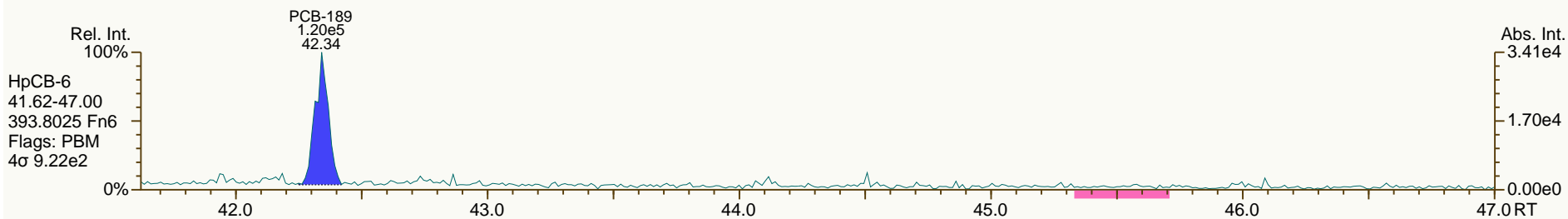
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
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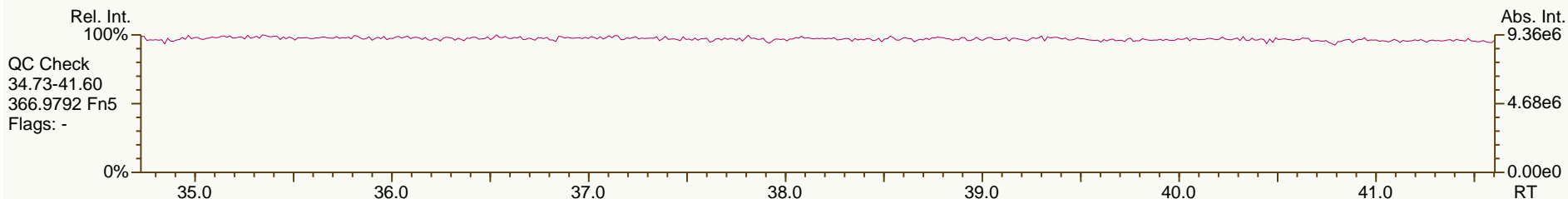
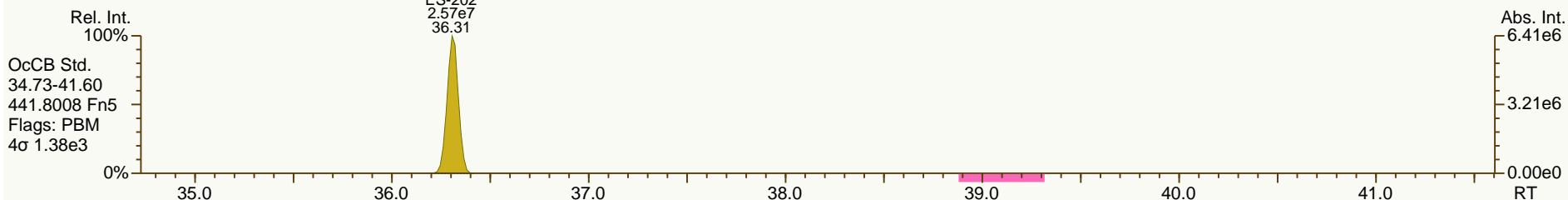
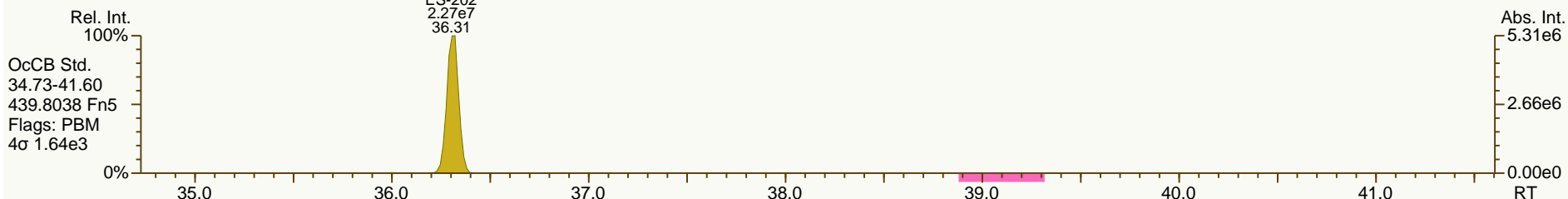
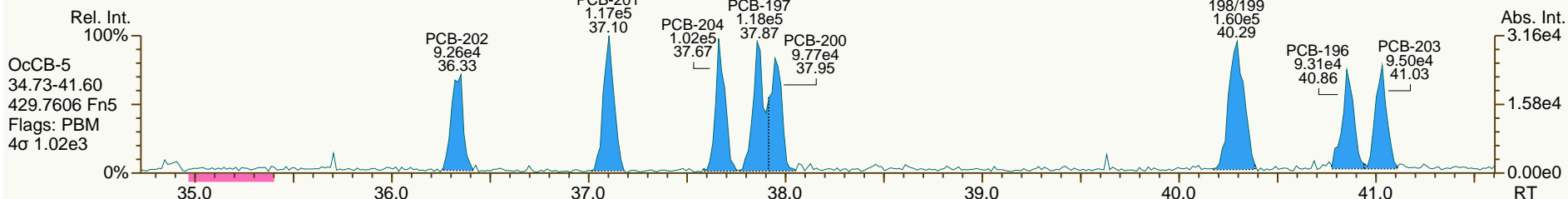
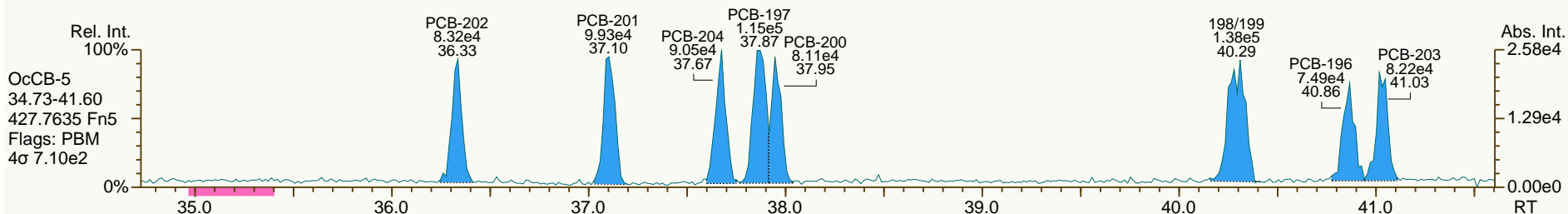
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
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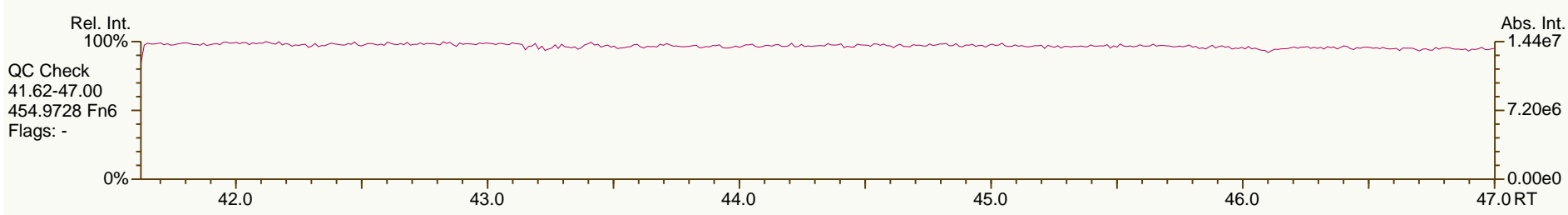
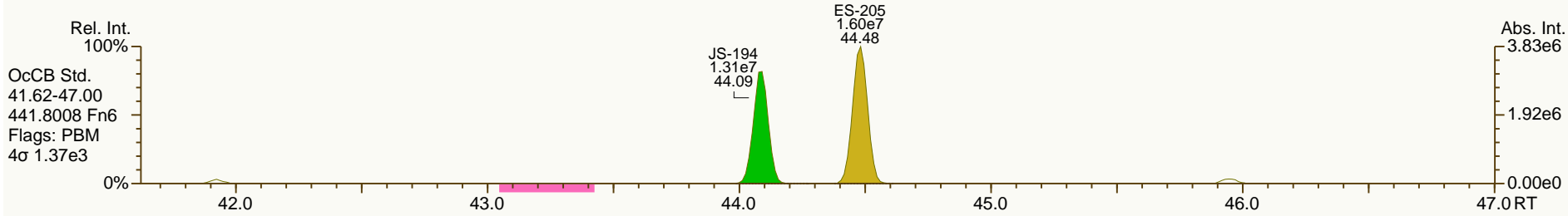
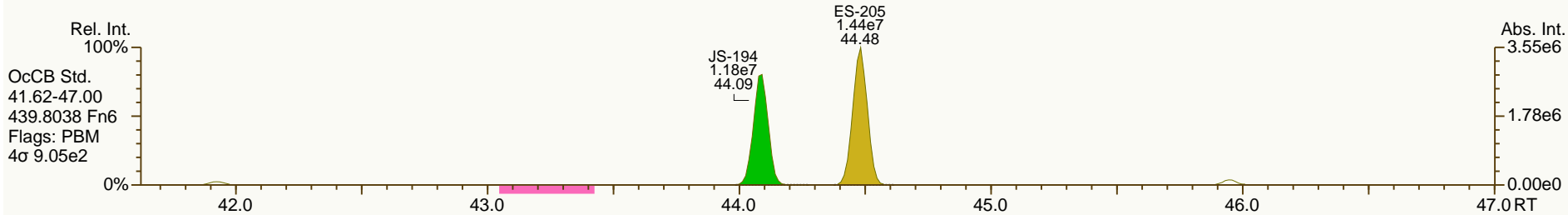
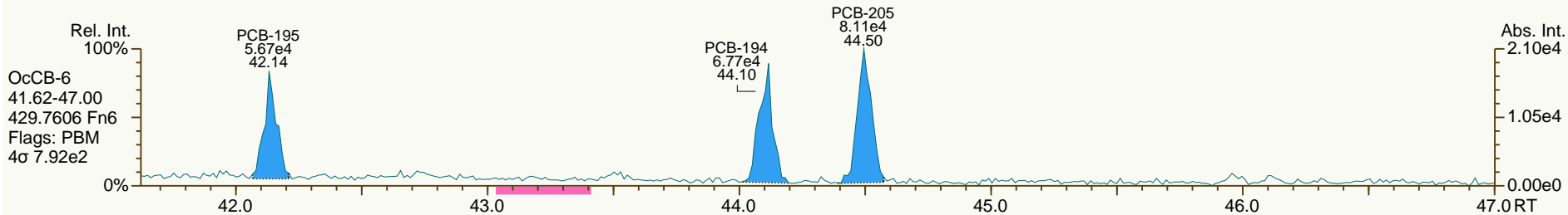
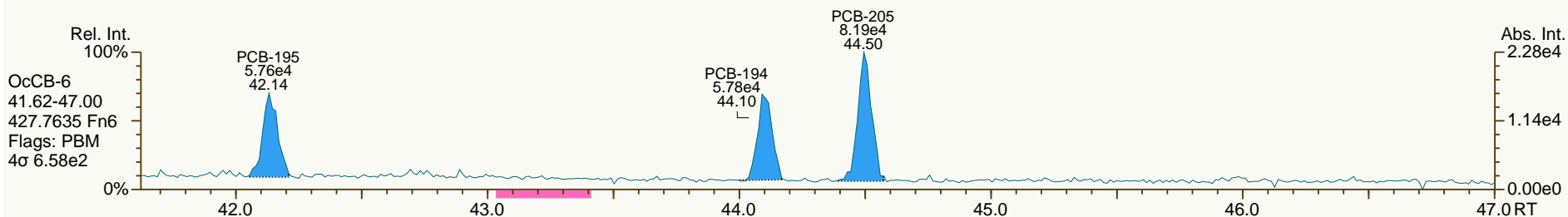
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

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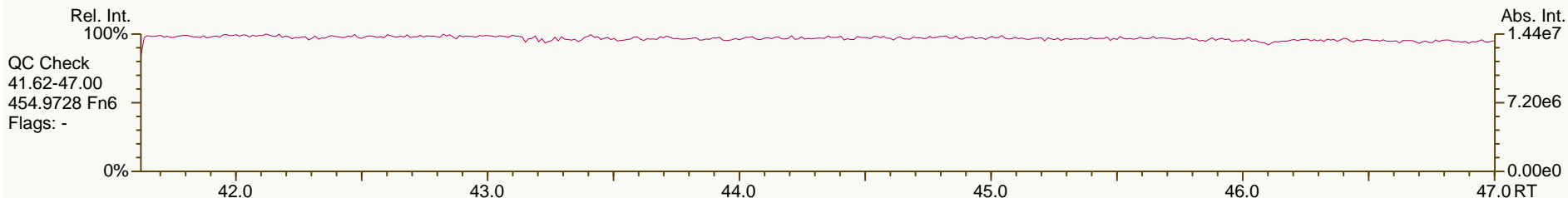
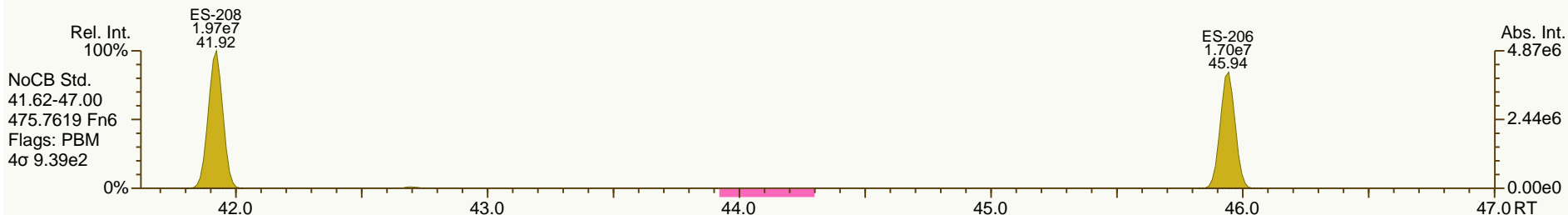
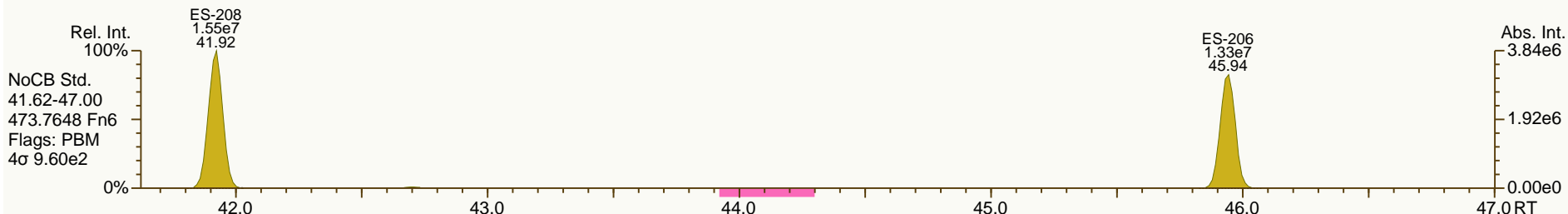
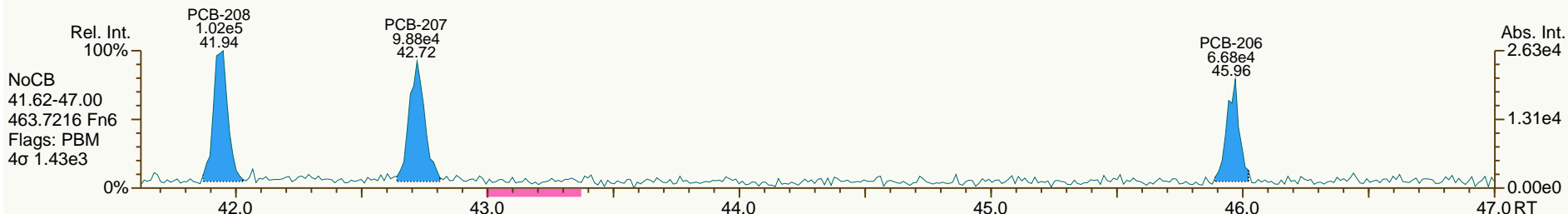
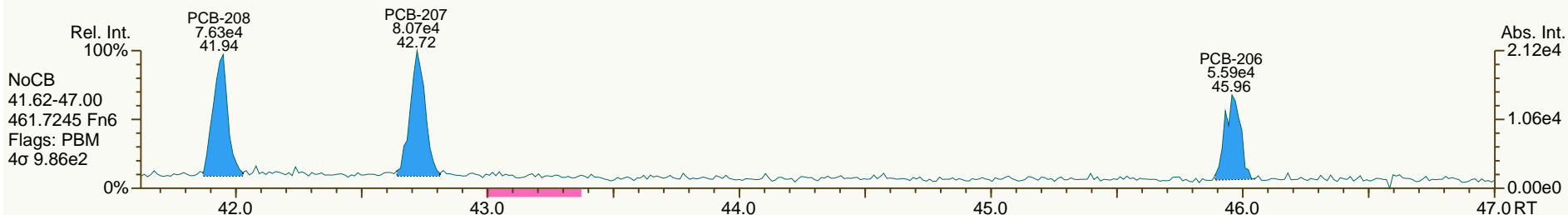
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

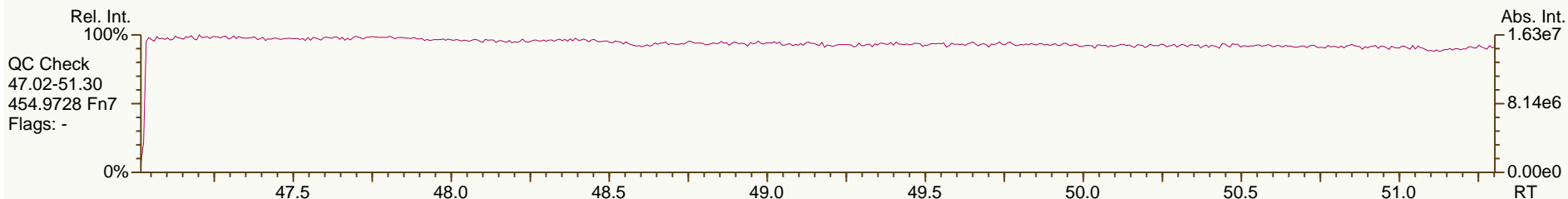
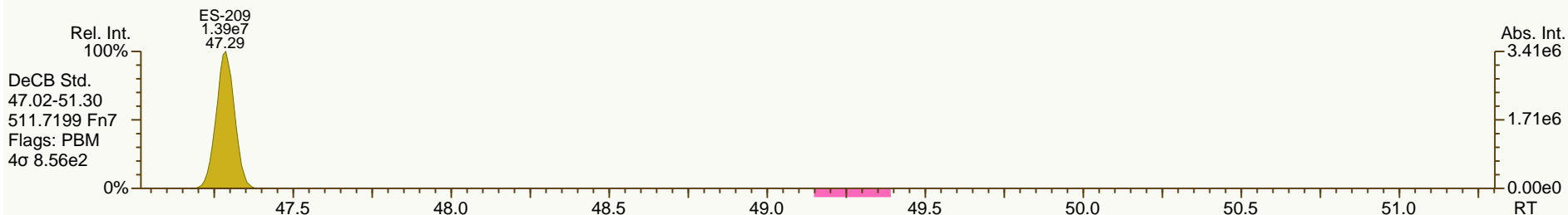
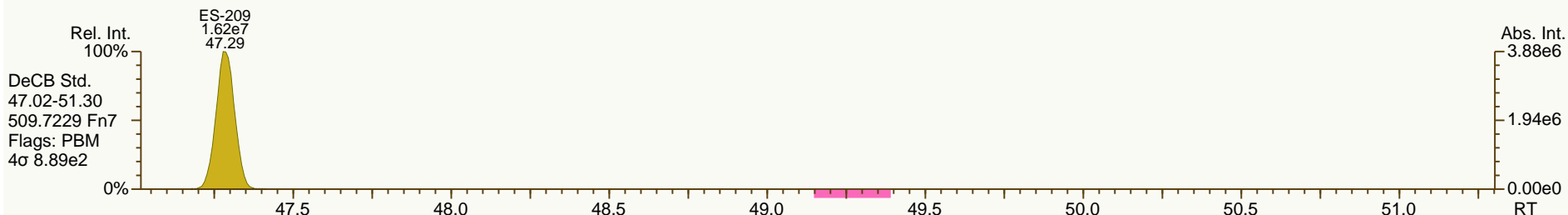
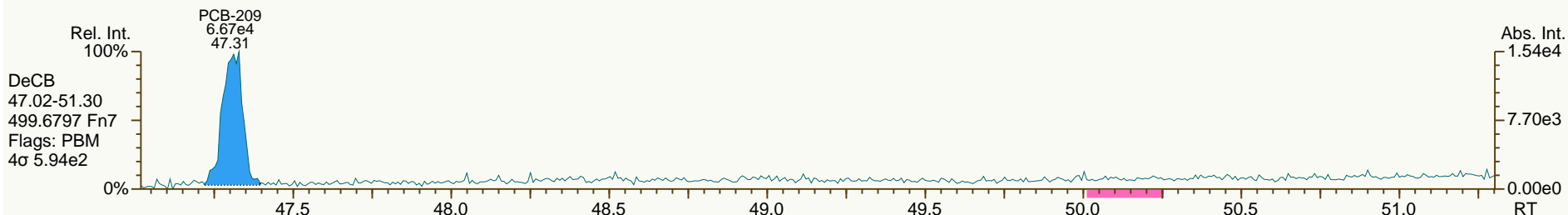
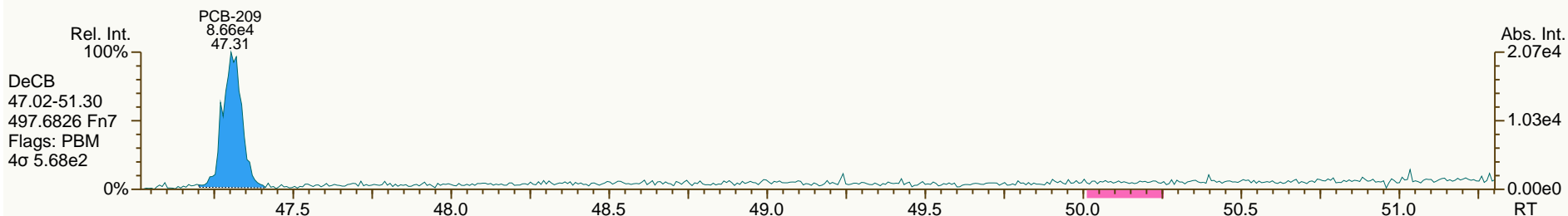
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SGS-AP ID: CS0_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-6
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 50

Acq: 11-Sep-2013 13:30:11
 User: CTW Datafile: 130911S03



PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:36		
Lab ID:	CS1_130911_PCB_SB				ICAL: MM4_PCB_07122013_11SEP2013		
Acquired:	11-SEP-2013 14:36						
Datafile:	130911S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	29.42	6.83E+05	0.79 Y	1.51	1.48	-1.9%	
PCB-81 344'5'-TeCB	28.95	6.32E+05	0.72 Y	1.27	1.25	-1.8%	
PCB-105 233'44'-PeCB	32.37	4.22E+05	0.58 Y	1.00	0.98	-1.4%	
PCB-114 2344'5'-PeCB	31.83	4.57E+05	0.63 Y	1.06	1.05	-1.4%	
PCB-118 23'44'5'-PeCB	31.38	4.11E+05	0.58 Y	1.01	0.96	-5.2%	
PCB-123 23'44'5'-PeCB	31.11	4.16E+05	0.60 Y	1.06	1.01	-4.9%	
PCB-126 33'44'5'-PeCB	34.97	5.39E+05	0.67 Y	1.26	1.17	-7.5%	
PCB-156/157 ...-HxCB	37.50	7.96E+05	1.18 Y	1.06	1.05	-1.7%	
PCB-167 23'44'55'-HxCB	36.54	4.21E+05	1.25 Y	1.12	1.07	-4.5%	
PCB-169 33'44'55'-HxCB	40.22	3.95E+05	1.32 Y	1.09	1.04	-4.2%	
PCB-189 233'44'55'-HpCB	42.35	5.08E+05	1.17 Y	1.15	1.13	-1.9%	
PCB-209 DeCB	47.31	3.14E+05	1.14 Y	1.03	1.04	0.3%	
ES PCB-1	9.95	7.66E+07	3.21 Y	1.04	1.04	0.2%	
ES PCB-3	11.88	7.13E+07	3.24 Y	0.99	0.97	-1.7%	
ES PCB-4	12.10	5.27E+07	1.57 Y	0.71	0.72	1.2%	
ES PCB-15	17.22	7.86E+07	1.63 Y	1.09	1.07	-1.7%	
ES PCB-19	14.81	4.35E+07	1.05 Y	0.59	0.59	0.4%	
ES PCB-37	23.21	5.63E+07	1.11 Y	1.32	1.29	-2.3%	
ES PCB-54	17.47	6.07E+07	0.78 Y	1.35	1.39	2.8%	
ES PCB-77	29.40	4.61E+07	0.80 Y	1.07	1.05	-1.3%	
ES PCB-81	28.93	5.07E+07	0.80 Y	1.19	1.16	-2.6%	
ES PCB-104	22.16	5.40E+07	1.58 Y	1.62	1.66	2.6%	
ES PCB-105	32.35	4.30E+07	1.57 Y	1.30	1.33	1.9%	
ES PCB-114	31.80	4.37E+07	1.62 Y	1.32	1.35	2.0%	
ES PCB-118	31.36	4.30E+07	1.58 Y	1.30	1.33	1.7%	
ES PCB-123	31.08	4.12E+07	1.54 Y	1.26	1.27	0.8%	
ES PCB-126	34.95	4.63E+07	1.58 Y	1.41	1.43	1.4%	
ES PCB-153	32.94	3.75E+07	1.26 Y	1.15	1.16	0.3%	
ES PCB-155	26.98	5.03E+07	1.27 Y	1.53	1.55	1.0%	
ES PCB-156/157	37.48	7.62E+07	1.25 Y	1.19	1.17	-1.2%	
ES PCB-167	36.52	3.94E+07	1.26 Y	1.22	1.21	-0.9%	
ES PCB-169	40.20	3.79E+07	1.23 Y	1.18	1.17	-1.2%	
ES PCB-170	39.71	2.99E+07	1.04 Y	1.22	1.23	0.8%	
ES PCB-180	38.65	3.50E+07	1.06 Y	1.41	1.44	2.5%	
ES PCB-188	31.80	5.61E+07	1.03 Y	1.71	1.73	1.2%	
ES PCB-189	42.33	4.49E+07	1.07 Y	1.84	1.85	0.5%	
ES PCB-202	36.32	4.65E+07	0.90 Y	1.42	1.43	1.1%	
ES PCB-205	44.49	3.08E+07	0.88 Y	1.25	1.27	1.3%	
ES PCB-206	45.95	3.07E+07	0.79 Y	1.24	1.27	2.3%	
ES PCB-208	41.93	3.51E+07	0.79 Y	1.42	1.44	1.7%	
ES PCB-209	47.29	3.03E+07	1.17 Y	1.23	1.25	1.1%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:36		
Lab ID:	CS1_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 14:36						
Datafile:	130911S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	19.81	6.09E+07	1.07 Y	1.06	1.08	1.8%	
SS PCB-111	29.44	4.42E+07	1.57 Y	1.06	1.07	1.1%	
SS PCB-178	34.37	3.32E+07	1.10 Y	0.58	0.59	1.4%	
CS PCB-28	19.81	6.09E+07	1.07 Y	1.40	1.39	-0.5%	
CS PCB-111	29.44	4.42E+07	1.57 Y	1.34	1.36	1.9%	
CS PCB-178	34.37	3.32E+07	1.10 Y	0.99	1.02	2.7%	
JS PCB-9	13.83	7.33E+07	1.62 Y	-	-	-	
JS PCB-52	21.36	4.37E+07	0.79 Y	-	-	-	
JS PCB-101	27.17	3.24E+07	1.55 Y	-	-	-	
JS PCB-138	33.98	3.25E+07	1.26 Y	-	-	-	
JS PCB-194	44.09	2.43E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	9.96	9.12E+05	3.32 Y	1.20	1.19	-0.4%	
PCB-3 4-MoCB	11.89	8.91E+05	3.20 Y	1.24	1.25	0.9%	
PCB-4 22'-DiCB	12.11	5.19E+05	0.00 S	0.97	0.98	1.4%	
PCB-15 44'-DiCB	17.23	9.80E+05	0.00 S	1.23	1.25	1.5%	
PCB-19 22'6'-TrCB	14.83	4.42E+05	0.95 Y	0.97	1.02	4.9%	
PCB-37 344'-TrCB	23.23	7.15E+05	1.06 Y	1.28	1.27	-1.0%	
PCB-54 22'66'-TeCB	17.48	5.97E+05	0.76 Y	1.00	0.98	-1.7%	
PCB-104 22'466'-PeCB	22.19	5.68E+05	0.67 Y	1.06	1.05	-0.4%	
PCB-153/168 ...-HxCB	32.98	9.30E+05	1.19 Y	1.26	1.24	-1.5%	
PCB-155 22'44'66'-HxCB	27.00	5.54E+05	1.38 Y	1.12	1.10	-1.8%	
PCB-170 22'33'44'5'-HpCB	39.73	3.02E+05	1.05 Y	1.01	1.01	0.2%	
PCB-180/193 ...-HpCB	38.64	7.62E+05	1.08 Y	1.11	1.09	-2.1%	
PCB-188 22'34'566'-HpCB	31.82	5.47E+05	0.98 Y	0.97	0.97	0.5%	
PCB-202 22'33'55'66'-OcCB	36.34	3.86E+05	0.98 Y	0.83	0.83	-0.1%	
PCB-205 233'44'55'6'-OcCB	44.51	3.07E+05	0.91 Y	1.08	1.00	-7.8%	
PCB-208 22'33'455'66'-NoCB	41.95	3.44E+05	0.75 Y	0.99	0.98	-1.1%	
PCB-206 22'33'44'55'6'-NoCB	45.97	2.52E+05	0.79 Y	0.83	0.82	-1.0%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS1_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 14:36						
Datafile:	130911S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	9.96	9.12E+05	3.32 Y	1.20	1.19	-0.4%	
PCB-2 3-MoCB	11.74	8.83E+05	3.10 Y	1.25	1.24	-0.7%	
PCB-3 4-MoCB	11.89	8.91E+05	3.20 Y	1.24	1.25	0.9%	
PCB-4 22'-DiCB	12.11	5.19E+05	0.00 S	0.97	0.98	1.4%	
PCB-10 26'-DiCB	12.26	7.91E+05	0.00 S	1.51	1.50	-0.6%	
PCB-9 25'-DiCB	13.85	8.75E+05	0.00 S	1.06	1.11	5.1%	
PCB-7 24'-DiCB	13.99	9.86E+05	0.00 S	1.23	1.25	1.9%	
PCB-6 23'-DiCB	14.20	8.91E+05	0.00 S	1.14	1.13	-0.3%	
PCB-5 23'-DiCB	14.47	9.71E+05	0.00 S	1.15	1.24	7.7%	
PCB-8 24'-DiCB	14.57	9.87E+05	0.00 S	1.18	1.26	6.9%	
PCB-14 35'-DiCB	15.98	1.08E+06	0.00 S	1.31	1.38	4.8%	
PCB-11 33'-DiCB	16.70	9.43E+05	0.00 S	1.17	1.20	2.5%	
PCB-13/12 34'/34'-DiCB	16.97	1.88E+06	0.00 S	1.17	1.19	2.6%	
PCB-15 44'-DiCB	17.23	9.80E+05	0.00 S	1.23	1.25	1.5%	
PCB-19 22'6'-TrCB	14.83	4.42E+05	0.95 Y	0.97	1.02	4.9%	
PCB-30/18 246/22'5'-TrCB	16.43	1.05E+06	1.10 Y	1.23	1.21	-2.3%	
PCB-17 22'4'-TrCB	16.80	4.51E+05	1.09 Y	1.06	1.04	-1.7%	
PCB-27 23'6'-TrCB	16.98	6.02E+05	0.97 Y	1.44	1.38	-3.9%	
PCB-24 236'-TrCB	17.09	5.68E+05	1.00 Y	1.37	1.31	-4.5%	
PCB-16 22'3'-TrCB	17.19	3.40E+05	1.09 Y	0.80	0.78	-3.0%	
PCB-32 24'6'-TrCB	17.63	6.89E+05	1.08 Y	1.59	1.58	-0.4%	
PCB-34 23'5'-TrCB	18.72	6.88E+05	1.02 Y	1.26	1.22	-3.3%	
PCB-23 235'-TrCB	18.85	7.49E+05	1.02 Y	1.31	1.33	1.5%	
PCB-26/29 23'5'/245'-TrCB	19.12	1.48E+06	1.06 Y	1.33	1.31	-1.6%	
PCB-25 23'4'-TrCB	19.31	7.40E+05	1.07 Y	1.33	1.31	-1.3%	
PCB-31 24'5'-TrCB	19.57	7.89E+05	1.02 Y	1.39	1.40	1.2%	
PCB-28/20 244'/233'-TrCB	19.84	1.47E+06	1.06 Y	1.30	1.31	0.7%	
PCB-21/33 234/23'4'-TrCB	20.00	1.51E+06	1.07 Y	1.34	1.34	0.0%	
PCB-22 234'-TrCB	20.36	6.92E+05	1.08 Y	1.22	1.23	1.0%	
PCB-36 33'5'-TrCB	21.69	7.45E+05	1.19 Y	1.35	1.32	-1.9%	
PCB-39 34'5'-TrCB	22.00	7.74E+05	1.06 Y	1.40	1.37	-1.6%	
PCB-38 345'-TrCB	22.49	6.96E+05	1.09 Y	1.25	1.24	-1.1%	
PCB-35 33'4'-TrCB	22.89	6.73E+05	0.99 Y	1.23	1.20	-2.9%	
PCB-37 344'-TrCB	23.23	7.15E+05	1.06 Y	1.28	1.27	-1.0%	
PCB-54 22'66'-TeCB	17.48	5.97E+05	0.76 Y	1.00	0.98	-1.7%	
PCB-50/53 22'46'/22'56'-TeCB	19.35	8.21E+05	0.74 Y	0.82	0.81	-0.7%	
PCB-45 22'36'-TeCB	19.90	3.56E+05	0.76 Y	0.73	0.70	-3.9%	
PCB-51 22'46'-TeCB	19.97	4.27E+05	0.78 Y	0.79	0.84	6.3%	
PCB-46 22'36'-TeCB	20.17	3.43E+05	0.79 Y	0.66	0.68	2.8%	
PCB-52 22'55'-TeCB	21.39	4.09E+05	0.69 Y	0.79	0.81	2.3%	
PCB-73 23'5'6'-TeCB	21.51	5.51E+05	0.74 Y	1.06	1.09	2.7%	
PCB-43 22'35'-TeCB	21.59	3.01E+05	0.74 Y	0.64	0.59	-7.3%	
PCB-69/49 23'46'/22'45'-TeCB	21.78	9.58E+05	0.76 Y	0.95	0.95	-0.2%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS1_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 14:36						
Datafile:	130911S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.04	3.82E+05	0.75 Y	0.79	0.75	-4.0%	
PCB-44/47/65 ...-TeCB	22.25	1.30E+06	0.79 Y	0.84	0.86	2.0%	
PCB-59/62/75 ...-TeCB	22.51	1.63E+06	0.76 Y	1.07	1.07	0.0%	
PCB-42 22'34'-TeCB	22.68	3.62E+05	0.79 Y	0.72	0.71	-0.8%	
PCB-41 22'34'-TeCB	22.99	3.26E+05	0.70 Y	0.66	0.64	-2.0%	
PCB-71/40 23'4'6/22'33'-TeCB	23.09	7.87E+05	0.79 Y	0.79	0.78	-2.2%	
PCB-64 23'4'6'-TeCB	23.28	5.41E+05	0.75 Y	1.13	1.07	-5.9%	
PCB-72 23'55'-TeCB	24.00	6.40E+05	0.81 Y	1.31	1.26	-3.5%	
PCB-68 23'45'-TeCB	24.24	6.65E+05	0.76 Y	1.43	1.31	-7.9%	
PCB-57 23'35'-TeCB	24.60	6.29E+05	0.78 Y	1.26	1.24	-1.5%	
PCB-58 23'35'-TeCB	24.80	6.62E+05	0.88 Y	1.30	1.31	0.2%	
PCB-67 23'45'-TeCB	24.94	6.49E+05	0.72 Y	1.35	1.28	-4.8%	
PCB-63 23'45'-TeCB	25.16	7.27E+05	0.83 Y	1.42	1.43	1.0%	
PCB-61/70/74/76 ...-TeCB	25.44	2.66E+06	0.79 Y	1.32	1.31	-0.5%	
PCB-66 23'44'-TeCB	25.72	6.44E+05	0.82 Y	1.26	1.27	0.7%	
PCB-55 23'34'-TeCB	25.86	6.02E+05	0.78 Y	1.24	1.19	-3.8%	
PCB-56 23'34'-TeCB	26.29	6.14E+05	0.79 Y	1.22	1.21	-0.9%	
PCB-60 23'44'-TeCB	26.47	6.62E+05	0.78 Y	1.29	1.31	1.4%	
PCB-80 33'55'-TeCB	26.82	7.06E+05	0.83 Y	1.42	1.39	-1.8%	
PCB-79 33'45'-TeCB	28.11	7.35E+05	0.79 Y	1.47	1.45	-1.2%	
PCB-78 33'45'-TeCB	28.58	6.45E+05	0.75 Y	1.23	1.27	3.1%	
PCB-104 22'466'-PeCB	22.19	5.68E+05	0.67 Y	1.06	1.05	-0.4%	
PCB-96 22'366'-PeCB	22.50	4.80E+05	0.65 Y	0.90	0.89	-1.2%	
PCB-103 22'45'6'-PeCB	24.15	3.28E+05	0.62 Y	0.84	0.80	-5.1%	
PCB-94 22'356'-PeCB	24.33	2.92E+05	0.62 Y	0.73	0.71	-2.8%	
PCB-95 22'35'6'-PeCB	24.71	3.25E+05	0.67 Y	0.78	0.79	1.3%	
PCB-100/93 22'44'6/22'356'-PeCB	24.90	5.93E+05	0.63 Y	0.77	0.72	-7.1%	
PCB-102 22'456'-PeCB	25.01	3.44E+05	0.63 Y	0.83	0.83	0.2%	
PCB-98 22'34'6'-PeCB	25.07	3.07E+05	0.62 Y	0.75	0.74	-1.1%	
PCB-88 22'346'-PeCB	25.36	3.02E+05	0.63 Y	0.74	0.73	-1.4%	
PCB-91 22'34'6'-PeCB	25.44	3.31E+05	0.59 Y	0.83	0.80	-3.2%	
PCB-84 22'33'6'-PeCB	25.63	2.66E+05	0.60 Y	0.66	0.64	-2.5%	
PCB-89 22'346'-PeCB	26.03	2.86E+05	0.64 Y	0.69	0.69	0.1%	
PCB-121 23'45'6'-PeCB	26.39	4.25E+05	0.62 Y	1.06	1.03	-2.5%	
PCB-92 22'355'-PeCB	26.70	3.03E+05	0.58 Y	0.73	0.73	0.6%	
PCB-113/90/101 ...-PeCB	27.17	1.01E+06	0.60 Y	0.85	0.82	-4.0%	
PCB-83 22'33'5'-PeCB	27.59	2.44E+05	0.54 Y	0.65	0.59	-8.5%	
PCB-99 22'44'5'-PeCB	27.68	3.60E+05	0.60 Y	0.84	0.87	3.7%	
PCB-112 23'3'56'-PeCB	27.78	3.94E+05	0.62 Y	1.00	0.96	-4.1%	
PCB-109/119/86/97/125...-PeCB	28.12	2.10E+06	0.60 Y	0.87	0.85	-2.7%	
PCB-117 23'4'56'-PeCB	28.64	3.15E+05	0.60 Y	0.88	0.76	-12.7%	
PCB-116/85 23'456/22'344'-PeCB	28.71	7.62E+05	0.64 Y	0.91	0.92	1.0%	
PCB-110 23'3'4'6'-PeCB	28.86	4.04E+05	0.61 Y	0.99	0.98	-1.0%	

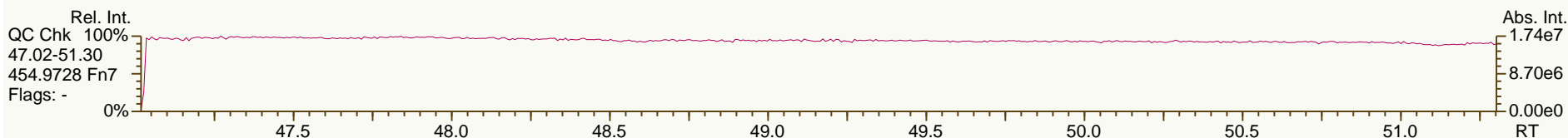
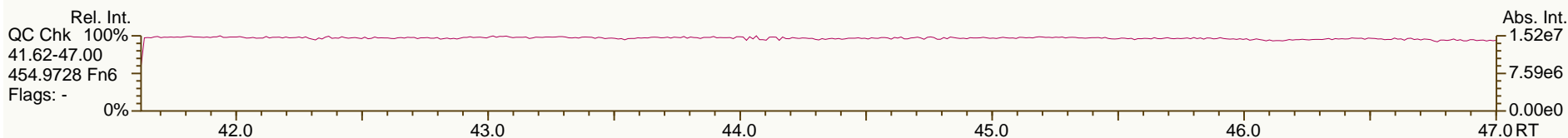
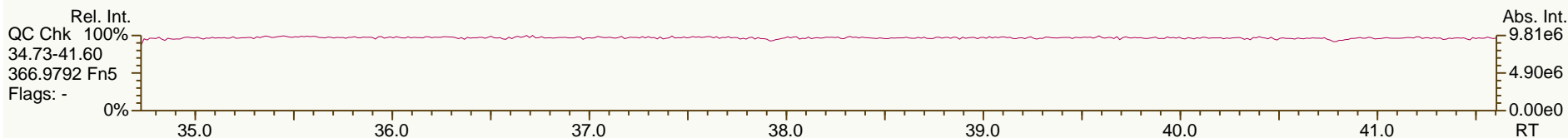
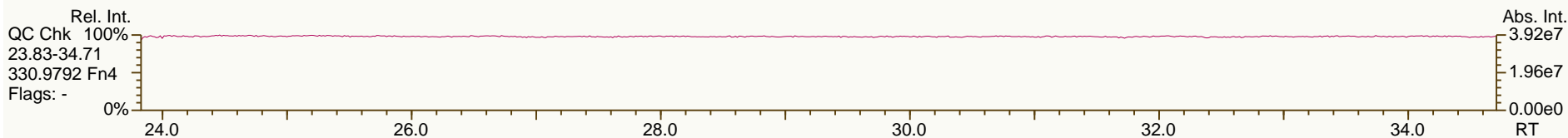
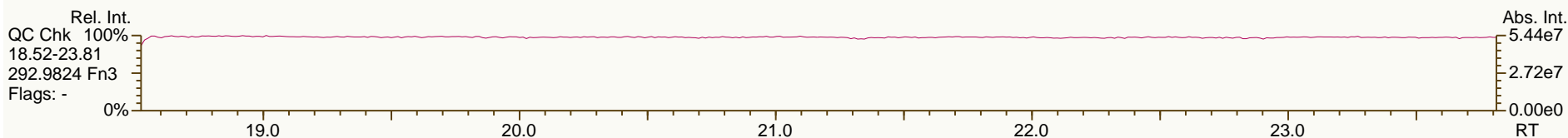
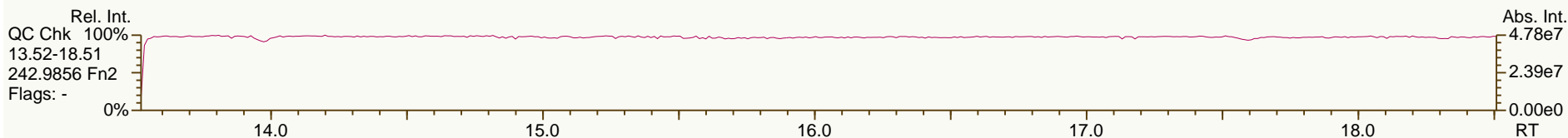
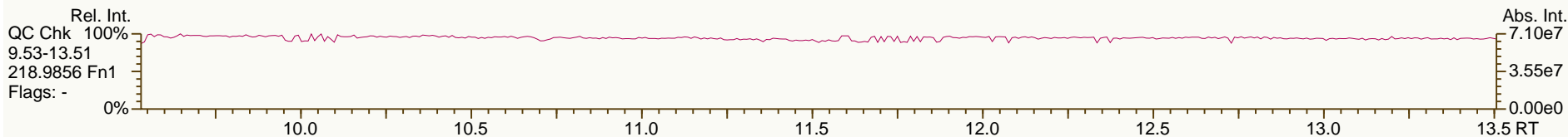
PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS1_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 14:36						
Datafile:	130911S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	28.92	4.09E+05	0.59 Y	1.01	0.99	-2.0%	
PCB-82 22'33'4-PeCB	29.12	2.48E+05	0.66 Y	0.62	0.60	-3.8%	
PCB-111 233'55'-PeCB	29.47	4.32E+05	0.58 Y	1.07	1.05	-2.1%	
PCB-120 23'455'-PeCB	29.85	4.16E+05	0.59 Y	1.07	1.01	-6.0%	
PCB-108/124 ...-PeCB	30.80	7.85E+05	0.60 Y	0.98	0.95	-3.3%	
PCB-107 233'4'5-PeCB	31.01	4.42E+05	0.59 Y	1.07	1.07	0.3%	
PCB-106 233'45-PeCB	31.20	3.92E+05	0.61 Y	1.00	0.95	-4.9%	
PCB-122 233'4'5'-PeCB	31.67	3.76E+05	0.61 Y	0.89	0.86	-3.4%	
PCB-127 33'455'-PeCB	33.62	4.14E+05	0.60 Y	0.98	0.96	-2.1%	
PCB-155 22'44'66'-HxCB	27.00	5.54E+05	1.38 Y	1.12	1.10	-1.8%	
PCB-152 22'3566'-HxCB	27.16	5.17E+05	1.12 Y	1.05	1.03	-2.2%	
PCB-150 22'34'66'-HxCB	27.31	5.30E+05	1.20 Y	1.07	1.05	-1.3%	
PCB-136 22'33'66'-HxCB	27.61	4.73E+05	1.32 Y	0.99	0.94	-5.1%	
PCB-145 22'3466'-HxCB	27.86	4.84E+05	1.24 Y	1.00	0.96	-3.3%	
PCB-148 22'34'56'-HxCB	29.14	3.87E+05	1.19 Y	1.03	1.03	0.4%	
PCB-151/135 ...-HxCB	29.66	7.47E+05	1.29 Y	1.00	0.99	-0.5%	
PCB-154 22'44'56'-HxCB	29.85	4.06E+05	1.21 Y	1.13	1.08	-3.9%	
PCB-144 22'345'6-HxCB	30.11	3.72E+05	1.29 Y	1.03	0.99	-3.6%	
PCB-147/149 ...-HxCB	30.41	7.36E+05	1.32 Y	1.03	0.98	-4.5%	
PCB-134 22'33'56-HxCB	30.59	3.33E+05	1.17 Y	0.84	0.89	6.3%	
PCB-143 22'3456'-HxCB	30.67	3.16E+05	1.23 Y	0.95	0.84	-11.1%	
PCB-139/140 ...-HxCB	30.92	7.74E+05	1.30 Y	1.05	1.03	-1.8%	
PCB-131 22'33'46-HxCB	31.09	3.12E+05	1.25 Y	0.87	0.83	-5.0%	
PCB-142 22'3456-HxCB	31.21	3.36E+05	1.16 Y	0.91	0.89	-1.7%	
PCB-132 22'33'46'-HxCB	31.47	3.35E+05	1.33 Y	0.92	0.89	-2.7%	
PCB-133 22'33'55'-HxCB	31.90	3.50E+05	1.25 Y	0.97	0.93	-3.6%	
PCB-165 233'55'6-HxCB	32.24	4.47E+05	1.23 Y	1.19	1.19	-0.4%	
PCB-146 22'34'55'-HxCB	32.44	4.10E+05	1.30 Y	1.08	1.09	0.9%	
PCB-161 233'45'6-HxCB	32.55	5.31E+05	1.19 Y	1.34	1.41	5.1%	
PCB-153/168 ...-HxCB	32.98	9.30E+05	1.19 Y	1.26	1.24	-1.5%	
PCB-141 22'3455'-HxCB	33.12	3.63E+05	1.29 Y	0.98	0.97	-1.4%	
PCB-130 22'33'45'-HxCB	33.47	3.43E+05	1.20 Y	0.88	0.91	4.2%	
PCB-137 22'344'5-HxCB	33.65	3.90E+05	1.22 Y	1.07	1.04	-3.1%	
PCB-164 233'4'5'6-HxCB	33.74	4.92E+05	1.18 Y	1.29	1.31	1.5%	
PCB-163/138/129 ...-HxCB	34.02	1.14E+06	1.22 Y	1.05	1.01	-3.6%	
PCB-160 233'456-HxCB	34.14	4.74E+05	1.26 Y	1.26	1.26	0.6%	
PCB-158 233'44'6-HxCB	34.34	5.23E+05	1.34 Y	1.40	1.39	-0.4%	
PCB-128/166 ...-HxCB	35.05	6.64E+05	1.25 Y	0.89	0.84	-4.9%	
PCB-159 233'455'-HxCB	35.90	3.92E+05	1.24 Y	1.04	1.00	-4.3%	
PCB-162 233'4'55'-HxCB	36.14	3.73E+05	1.17 Y	1.04	0.95	-8.8%	
PCB-188 22'34'566'-HpCB	31.82	5.47E+05	0.98 Y	0.97	0.97	0.5%	
PCB-179 22'33'566'-HpCB	32.11	4.95E+05	1.03 Y	0.89	0.88	-1.4%	
PCB-184 22'344'66'-HpCB	32.55	5.03E+05	1.07 Y	0.87	0.90	2.9%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS1_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 14:36						
Datafile:	130911S04						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	32.85	5.20E+05	1.00 Y	0.97	0.93	-4.0%	
PCB-186 22'34'566'-HpCB	33.23	5.33E+05	1.06 Y	0.93	0.95	1.7%	
PCB-178 22'33'55'6'-HpCB	34.39	3.86E+05	1.06 Y	0.67	0.69	2.1%	
PCB-175 22'33'45'6'-HpCB	34.93	3.29E+05	0.98 Y	0.97	0.94	-3.5%	
PCB-187 22'34'55'6'-HpCB	35.15	3.48E+05	1.05 Y	1.02	0.99	-2.4%	
PCB-182 22'344'56'-HpCB	35.32	3.45E+05	1.05 Y	1.05	0.98	-6.3%	
PCB-183 22'344'5'6'-HpCB	35.67	3.29E+05	0.96 Y	1.07	0.94	-12.0%	
PCB-185 22'3455'6'-HpCB	35.75	3.23E+05	1.17 Y	0.96	0.92	-3.6%	
PCB-174 22'33'456'-HpCB	35.86	2.93E+05	0.98 Y	0.86	0.84	-2.3%	
PCB-177 22'33'45'6'-HpCB	36.23	2.77E+05	0.93 Y	0.83	0.79	-5.0%	
PCB-181 22'344'56'-HpCB	36.56	3.39E+05	1.15 Y	1.00	0.97	-2.9%	
PCB-171/173 ...-HpCB	36.75	5.85E+05	1.11 Y	0.86	0.83	-3.4%	
PCB-172 22'33'455'-HpCB	38.13	2.92E+05	1.05 Y	0.87	0.83	-4.4%	
PCB-192 233'455'6'-HpCB	38.36	4.11E+05	1.05 Y	1.19	1.17	-1.1%	
PCB-180/193 ...-HpCB	38.64	7.62E+05	1.08 Y	1.11	1.09	-2.1%	
PCB-191 233'44'5'6'-HpCB	38.97	4.41E+05	1.03 Y	1.23	1.26	2.0%	
PCB-170 22'33'44'5'-HpCB	39.73	3.02E+05	1.05 Y	1.01	1.01	0.2%	
PCB-190 233'44'56'-HpCB	40.17	4.18E+05	0.91 Y	1.42	1.40	-1.5%	
PCB-202 22'33'55'66'-OcCB	36.34	3.86E+05	0.98 Y	0.83	0.83	-0.1%	
PCB-201 22'33'45'66'-OcCB	37.11	4.40E+05	0.93 Y	0.94	0.95	0.2%	
PCB-204 22'344'566'-OcCB	37.68	3.87E+05	0.84 Y	0.87	0.83	-4.6%	
PCB-197 22'33'44'66'-OcCB	37.87	4.53E+05	0.85 Y	0.97	0.97	-0.2%	
PCB-200 22'33'4566'-OcCB	37.96	4.27E+05	0.91 Y	0.89	0.92	3.3%	
PCB-198/199 ...-OcCB	40.30	5.94E+05	0.93 Y	0.66	0.64	-2.6%	
PCB-196 22'33'44'56'-OcCB	40.87	3.24E+05	0.95 Y	0.70	0.70	-1.1%	
PCB-203 22'344'55'6'-OcCB	41.04	3.43E+05	0.87 Y	0.74	0.74	0.0%	
PCB-195 22'33'44'56'-OcCB	42.14	2.39E+05	0.91 Y	0.78	0.77	-0.9%	
PCB-194 22'33'44'55'-OcCB	44.11	2.55E+05	0.92 Y	0.85	0.83	-2.6%	
PCB-205 233'44'55'6'-OcCB	44.51	3.07E+05	0.91 Y	1.08	1.00	-7.8%	
PCB-208 22'33'455'66'-NoCB	41.95	3.44E+05	0.75 Y	0.99	0.98	-1.1%	
PCB-207 22'33'44'566'-NoCB	42.73	3.45E+05	0.75 Y	1.03	0.98	-4.1%	
PCB-206 22'33'44'55'6'-NoCB	45.97	2.52E+05	0.79 Y	0.83	0.82	-1.0%	

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Sample ID: SIL 13-40-5
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 51

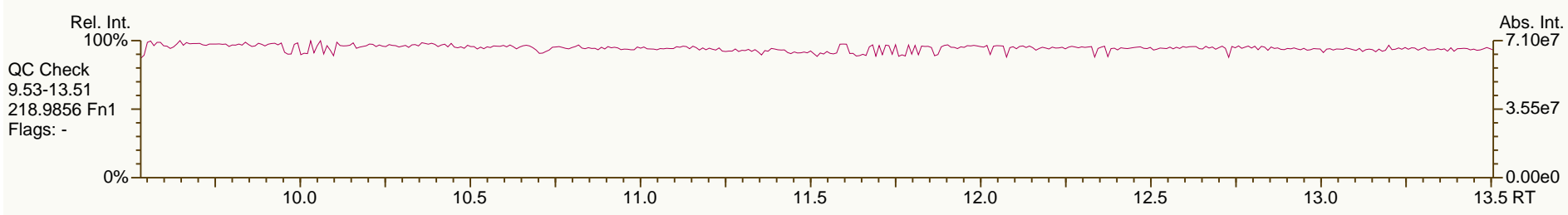
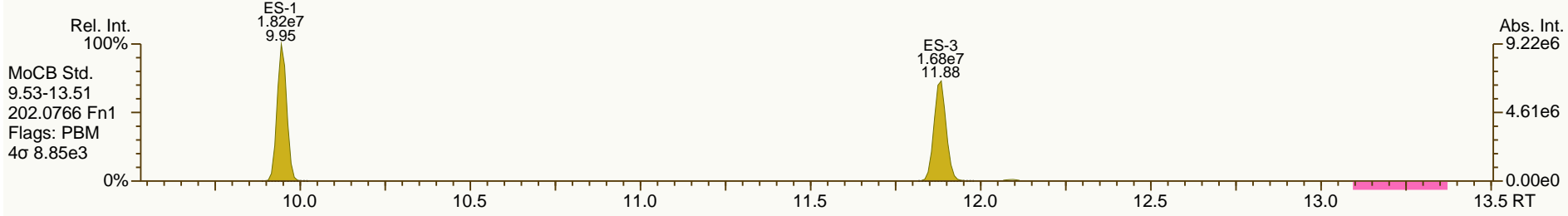
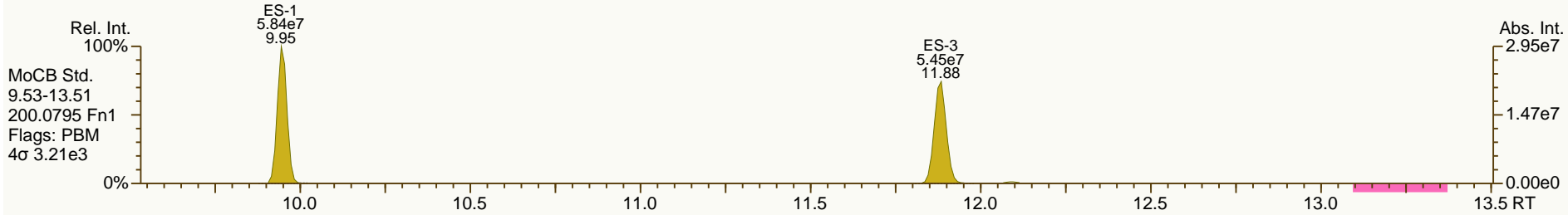
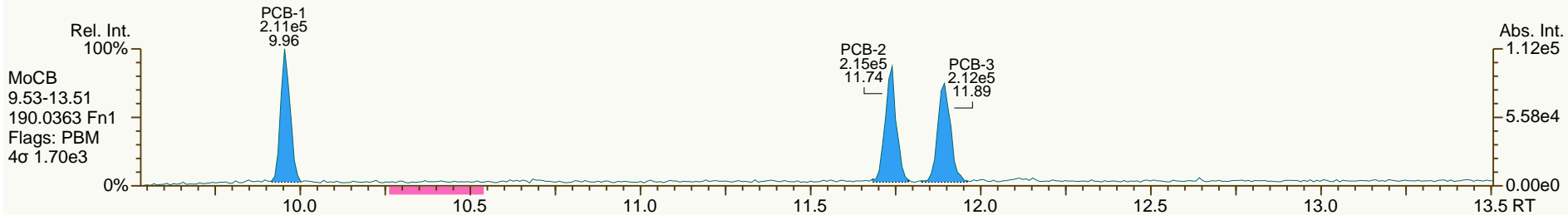
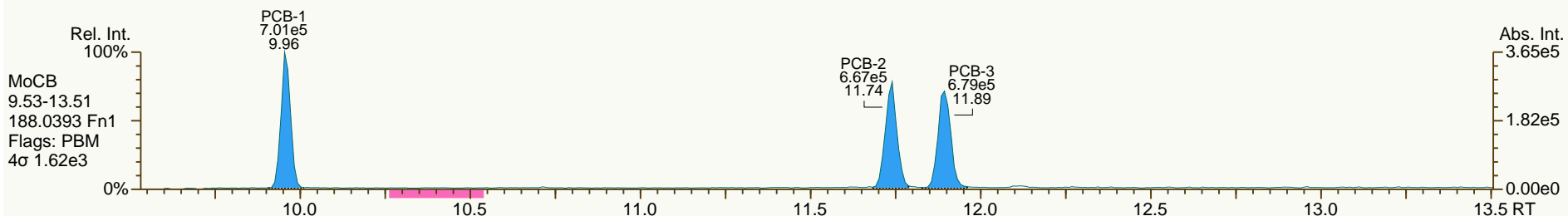
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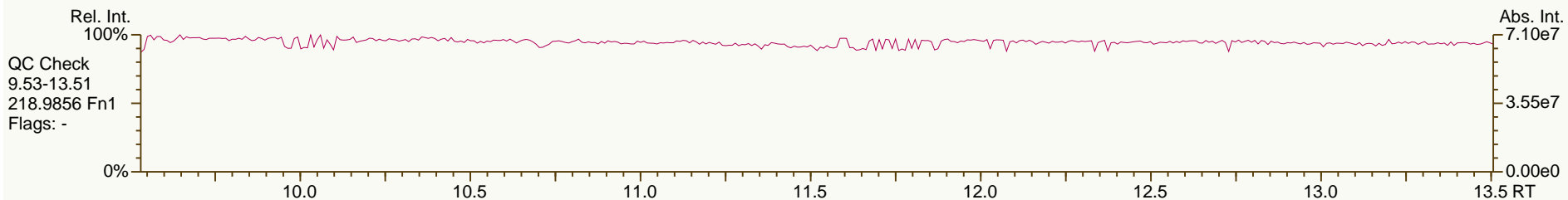
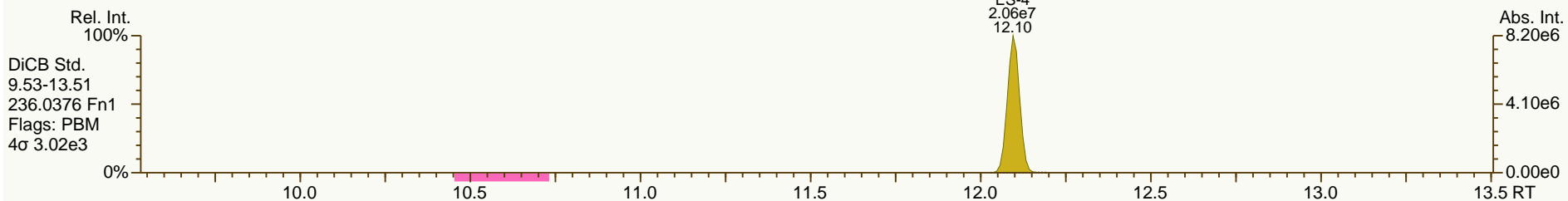
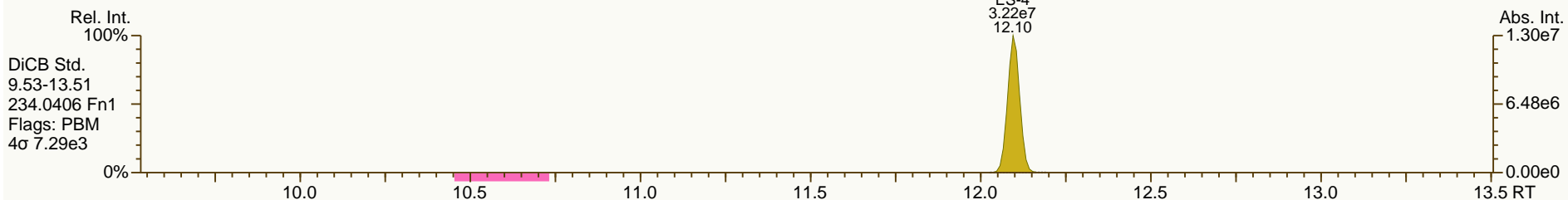
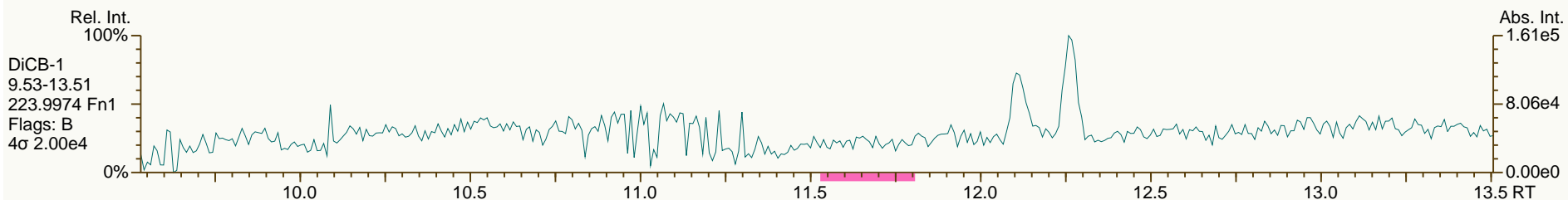
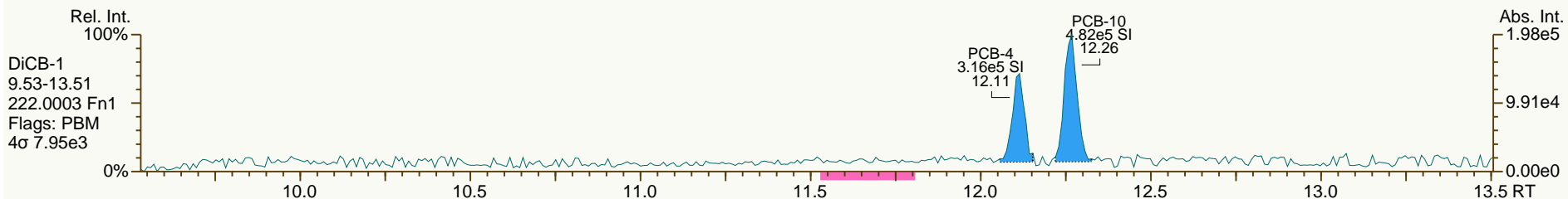
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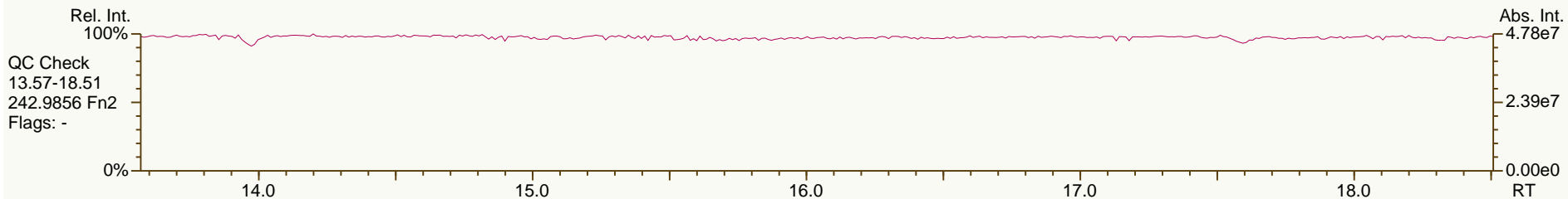
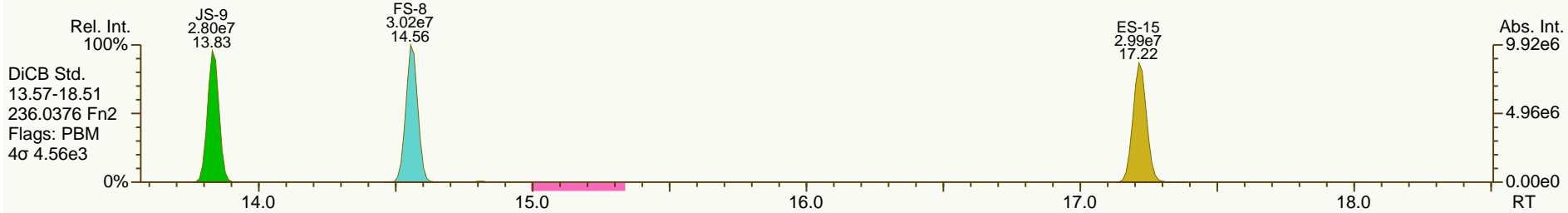
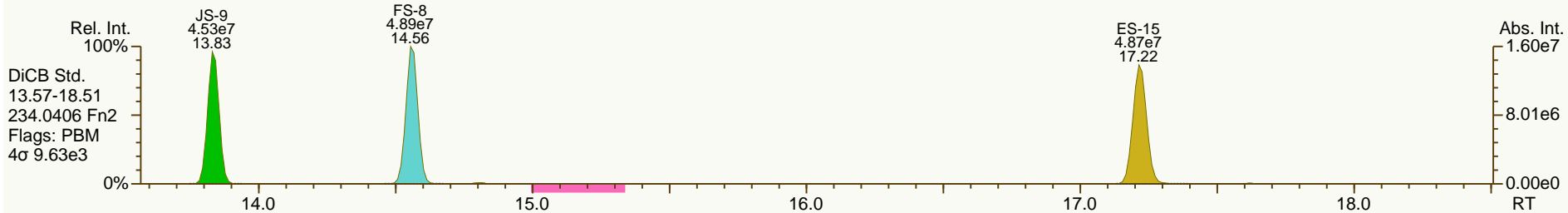
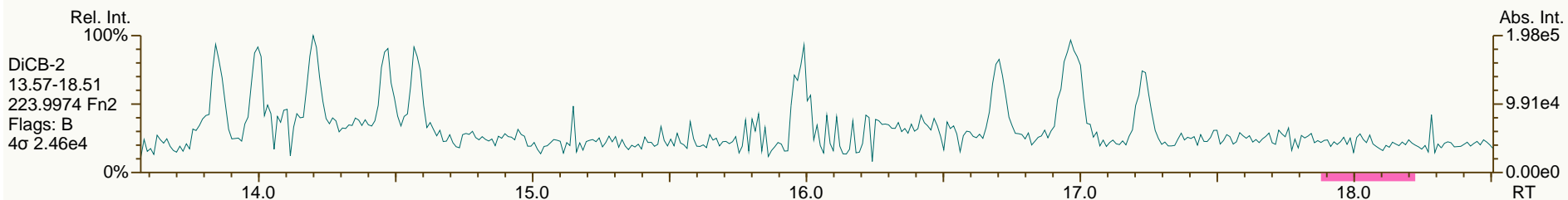
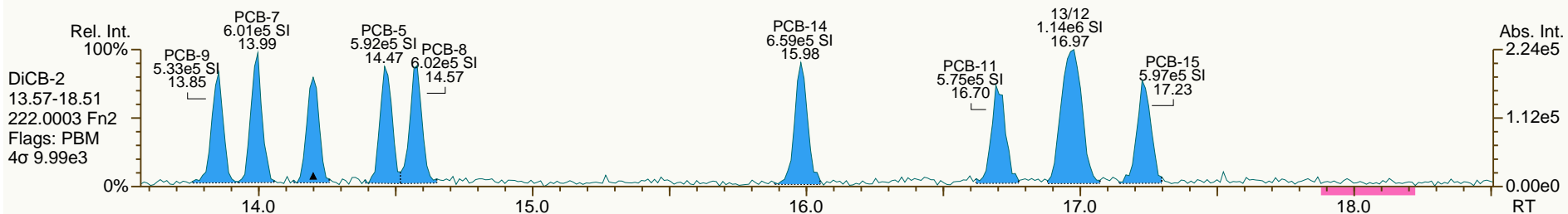
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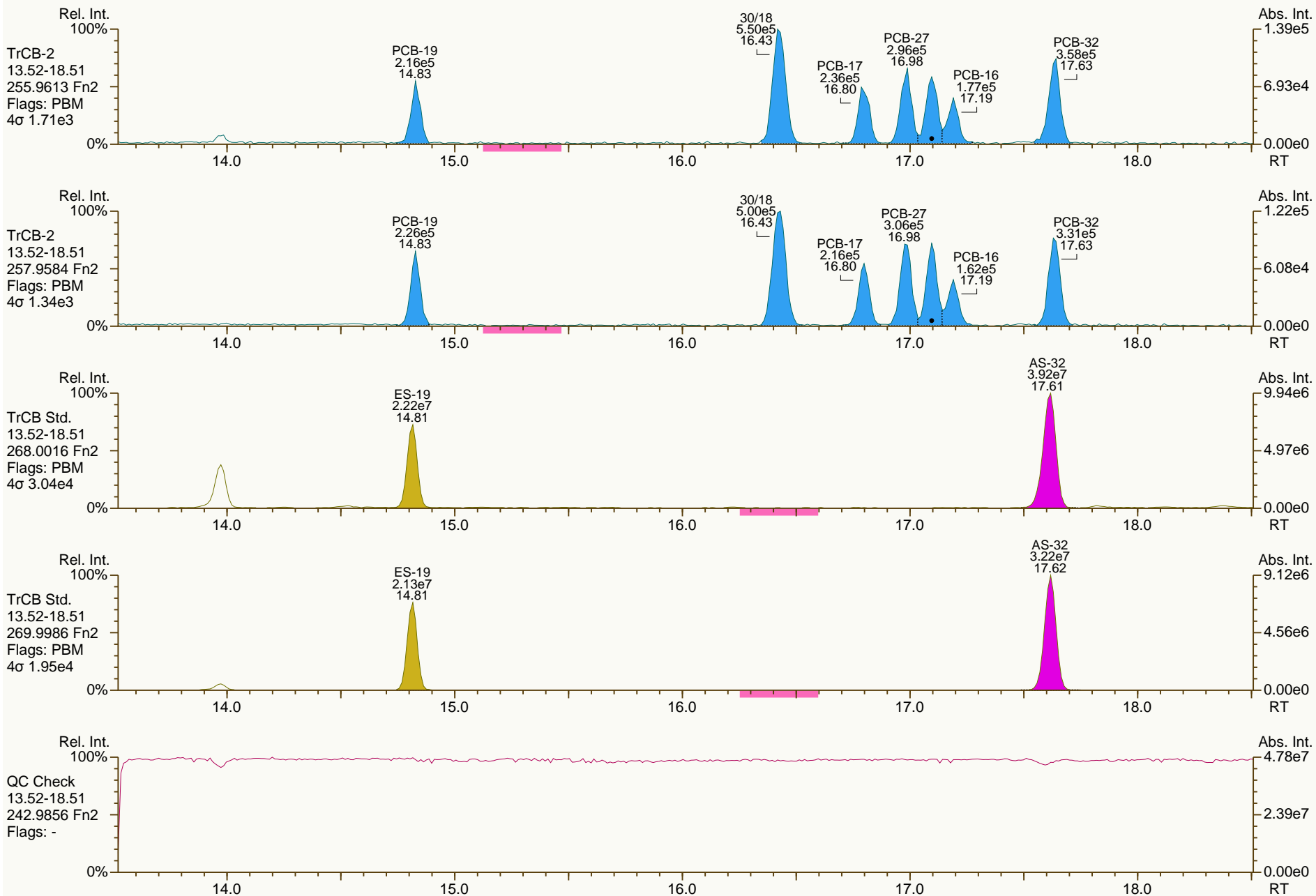
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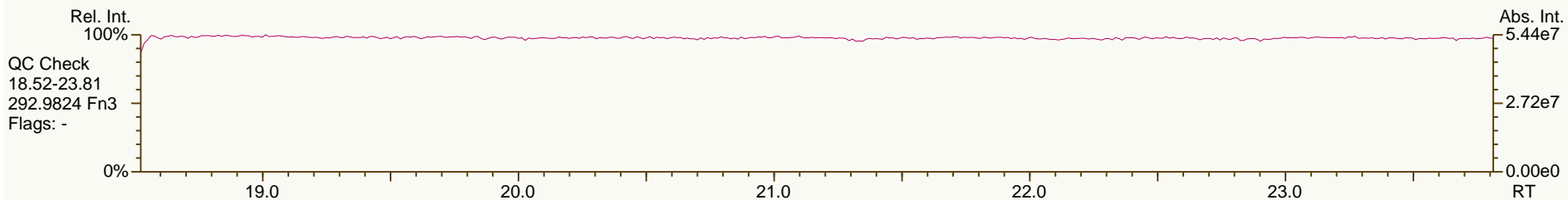
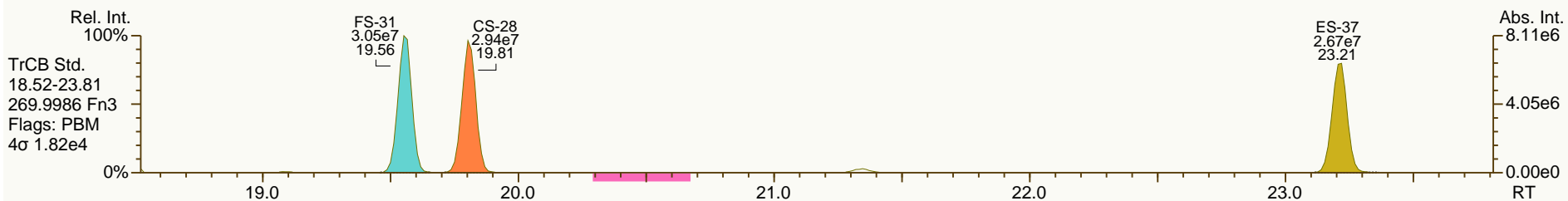
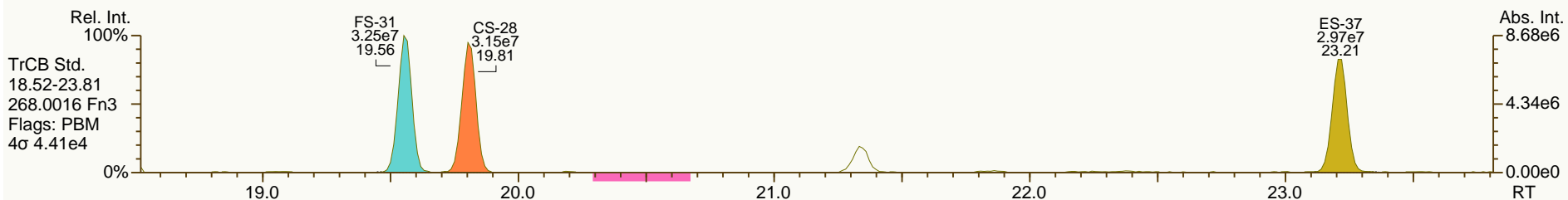
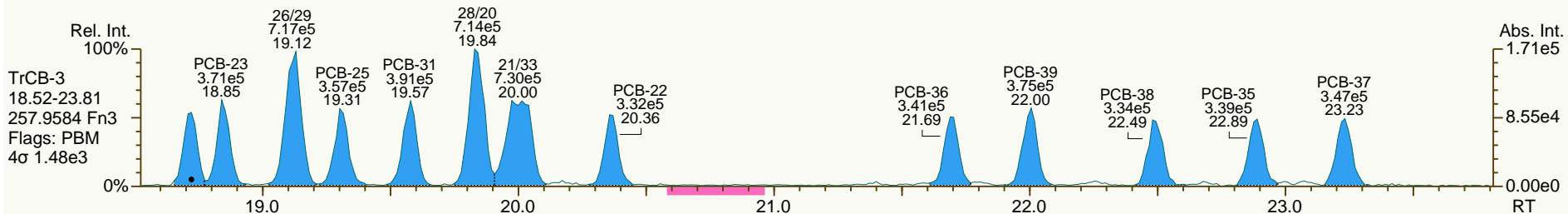
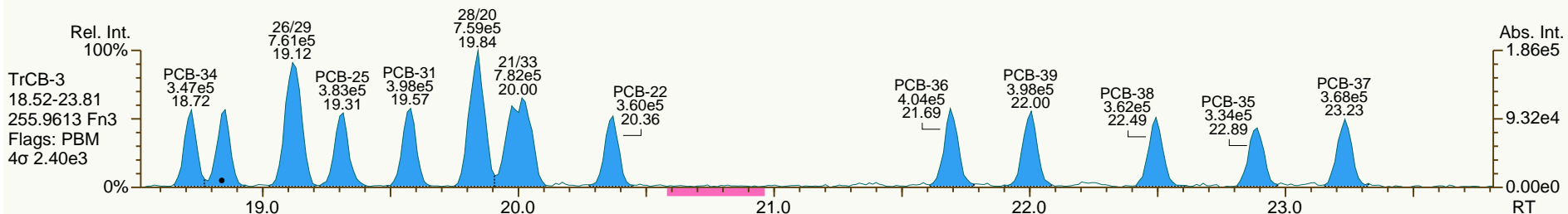
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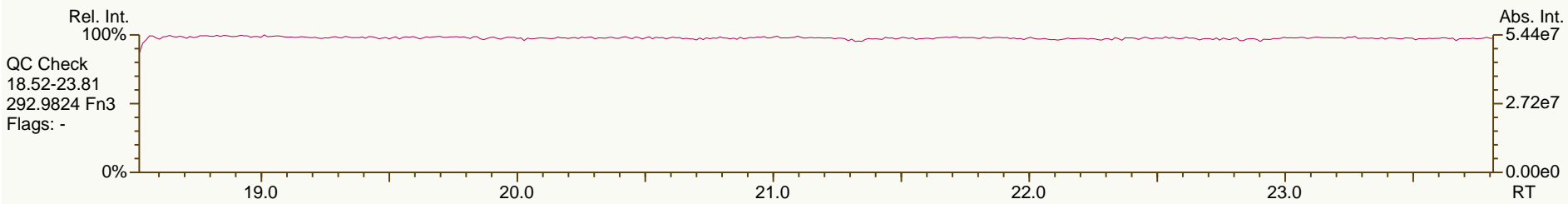
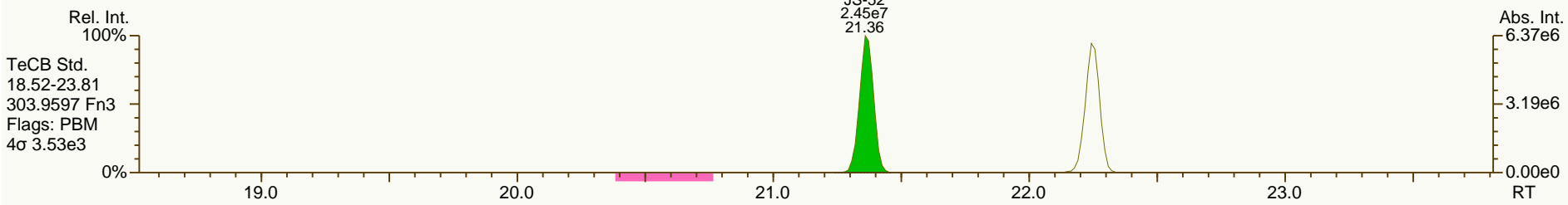
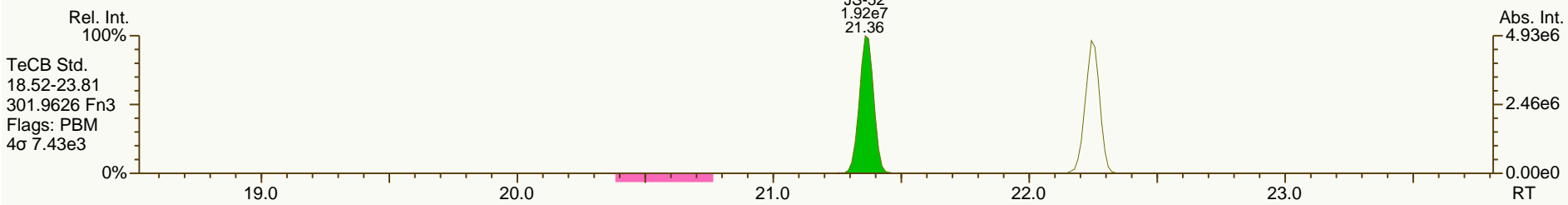
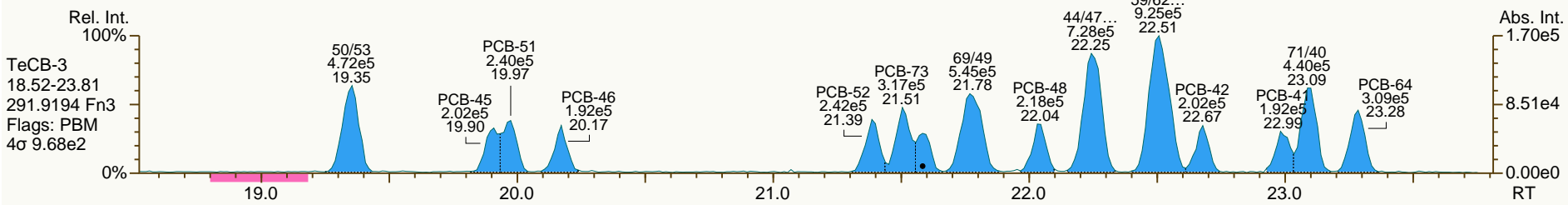
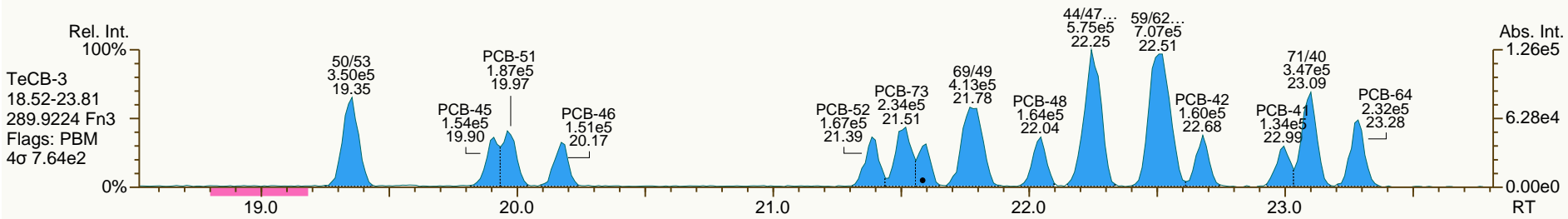
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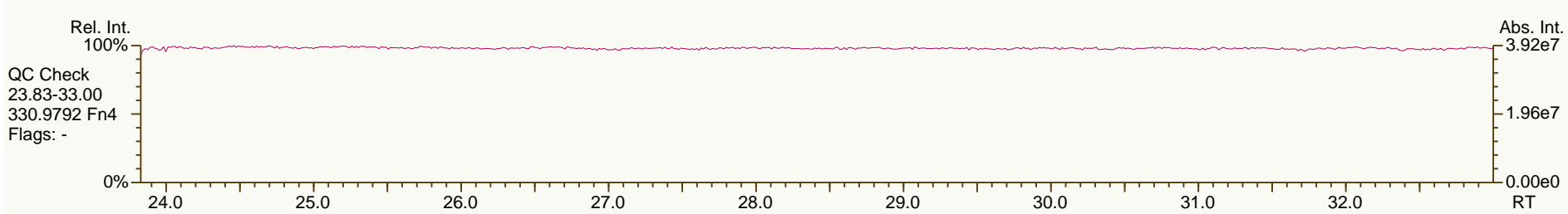
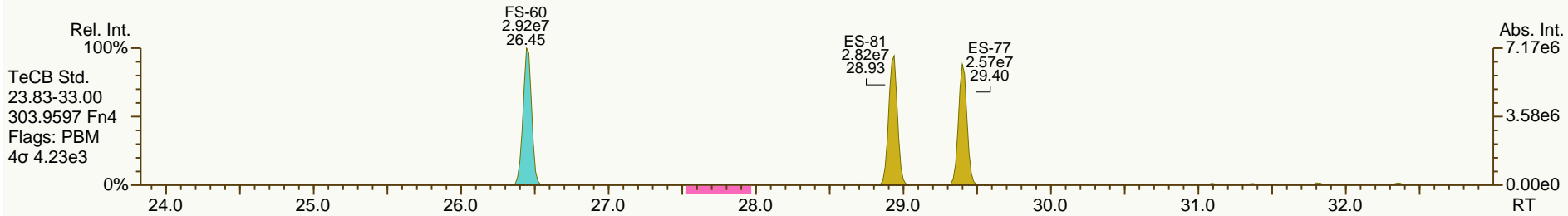
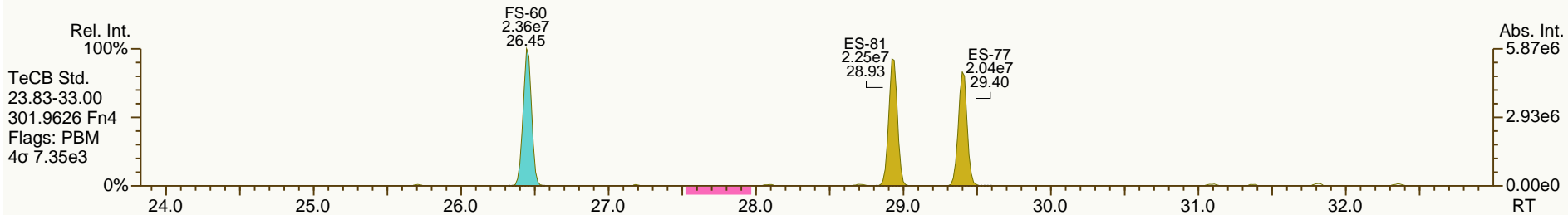
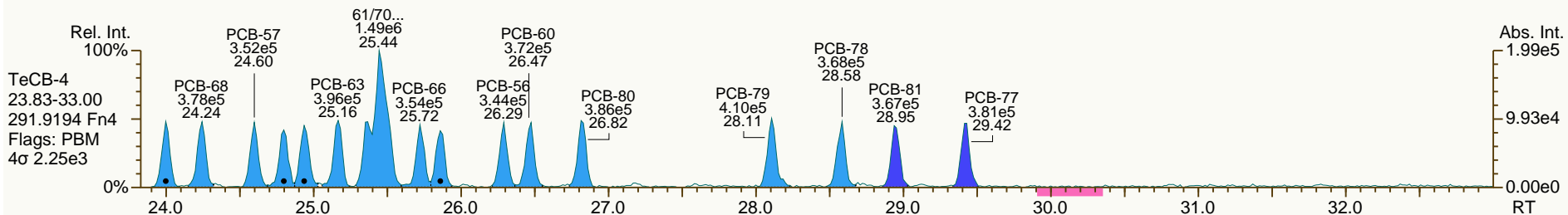
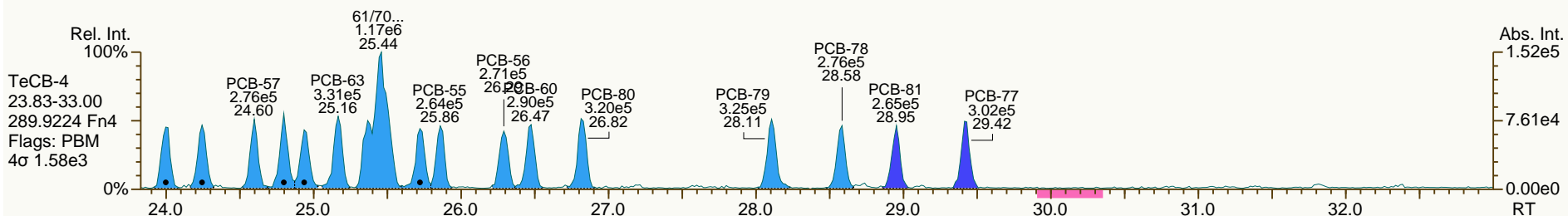
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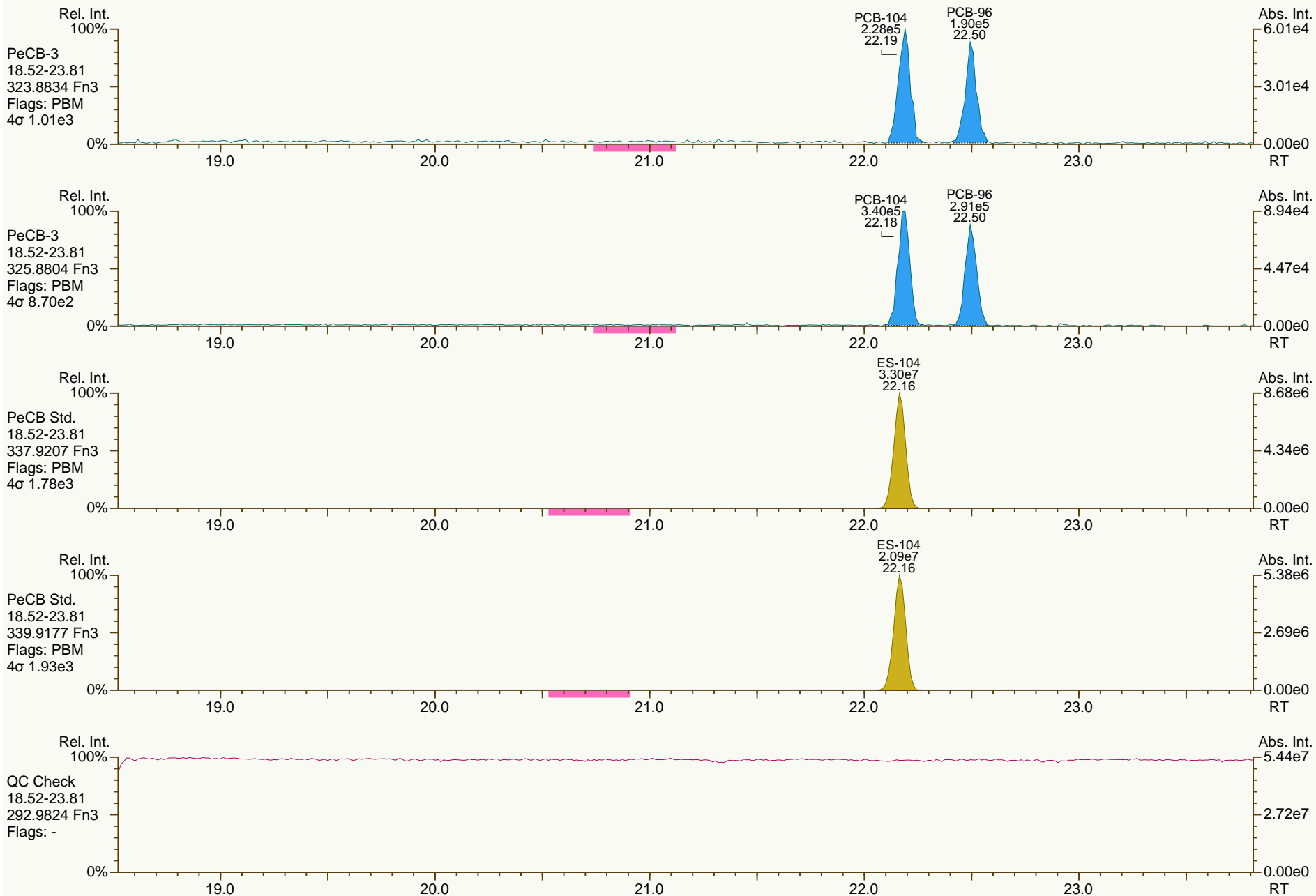
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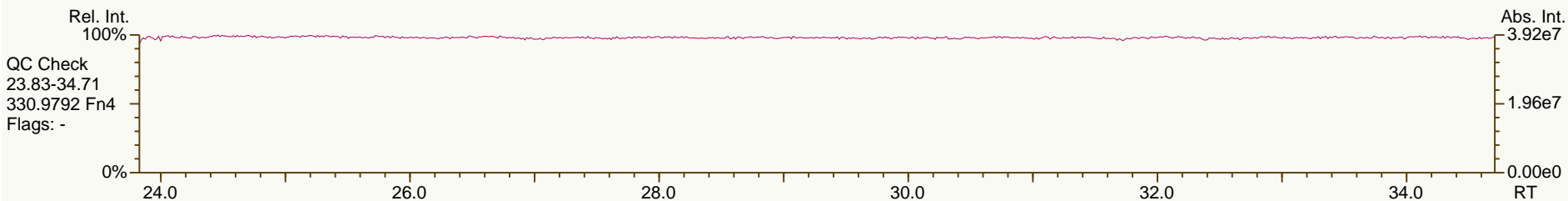
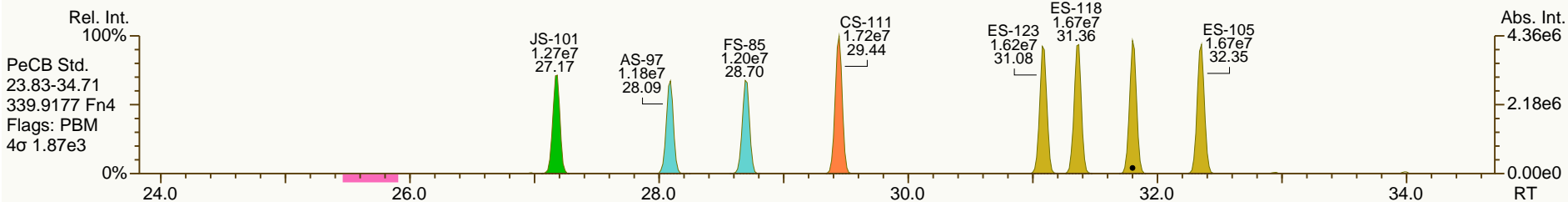
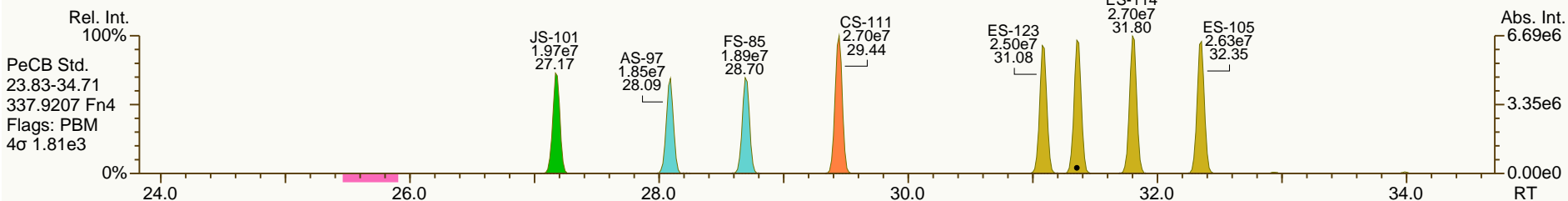
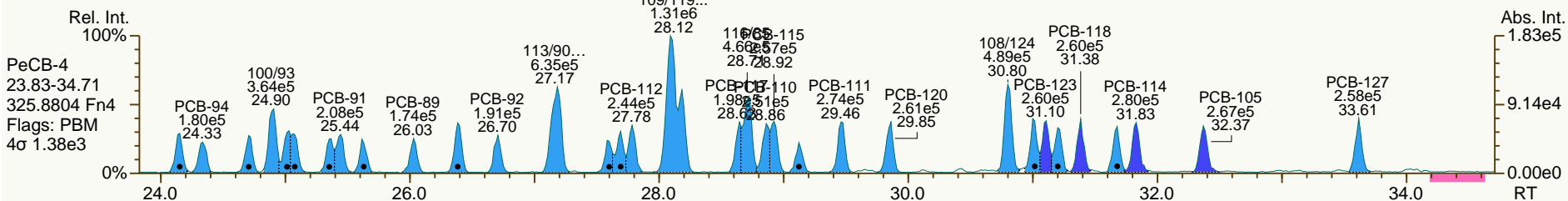
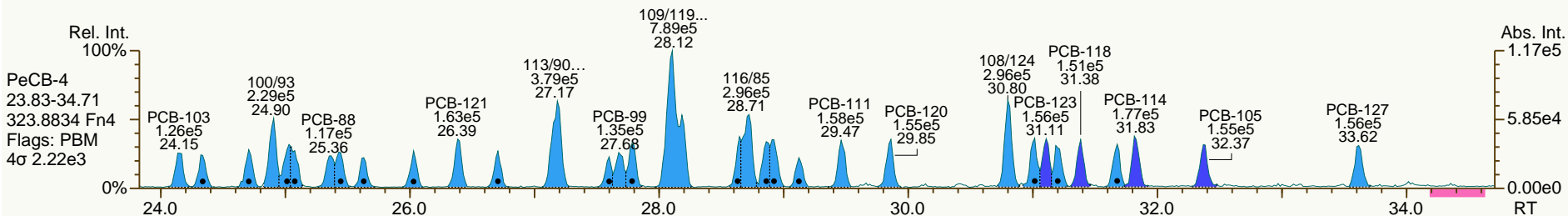
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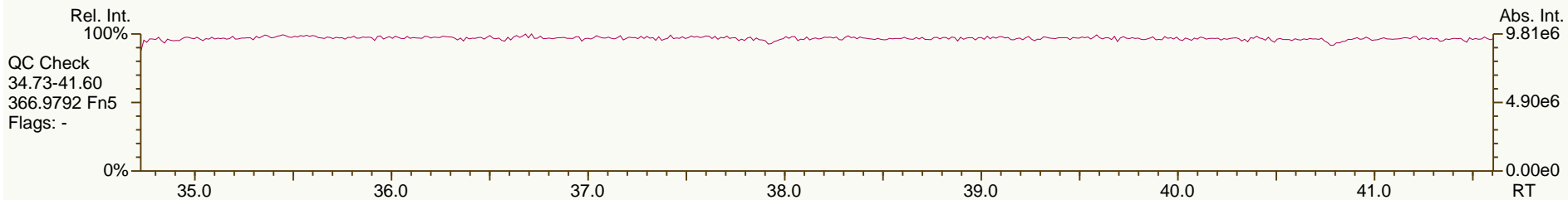
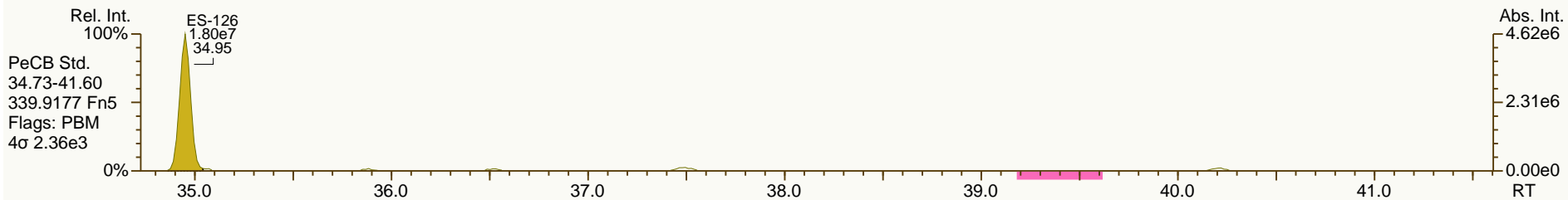
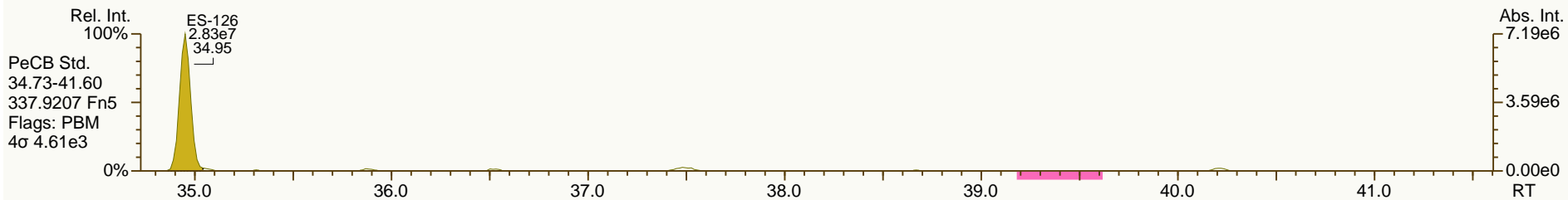
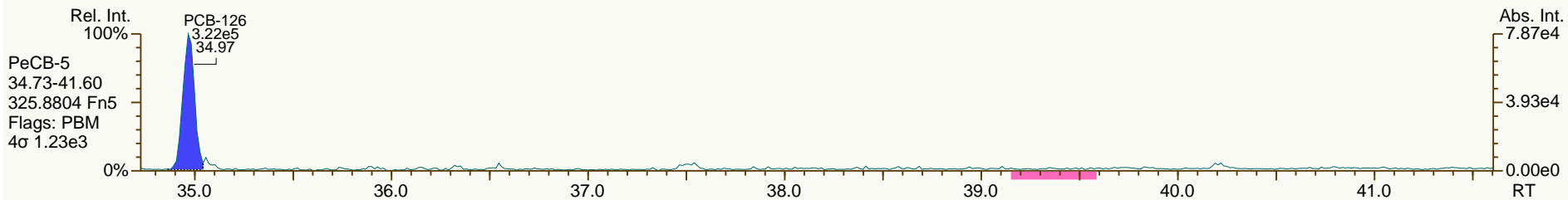
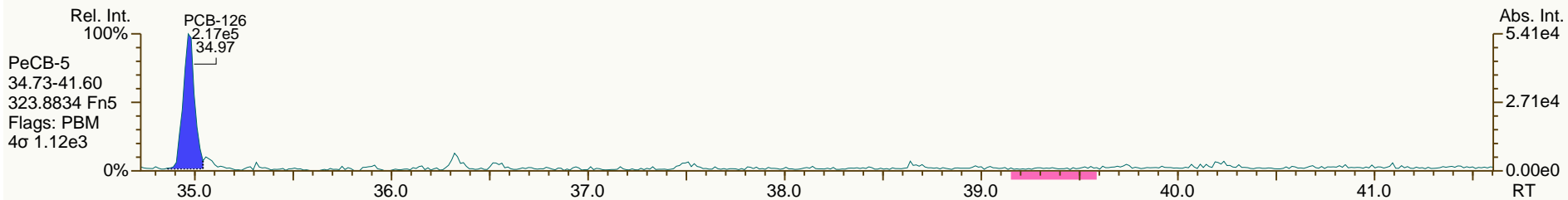
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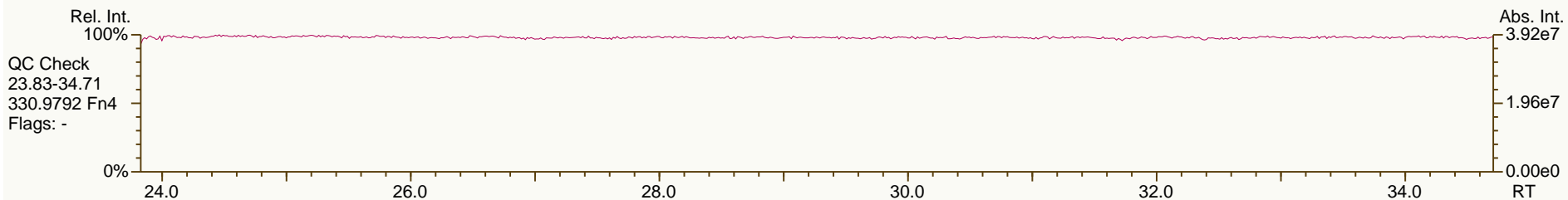
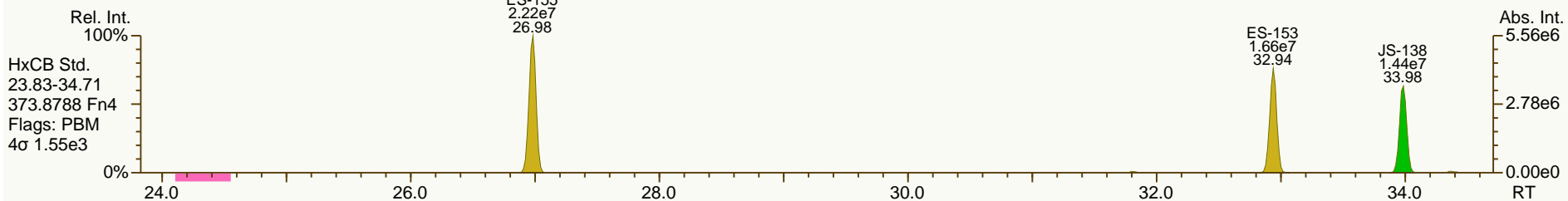
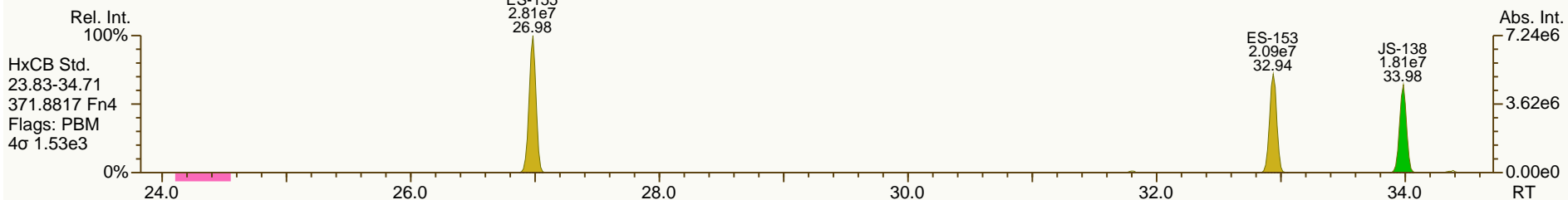
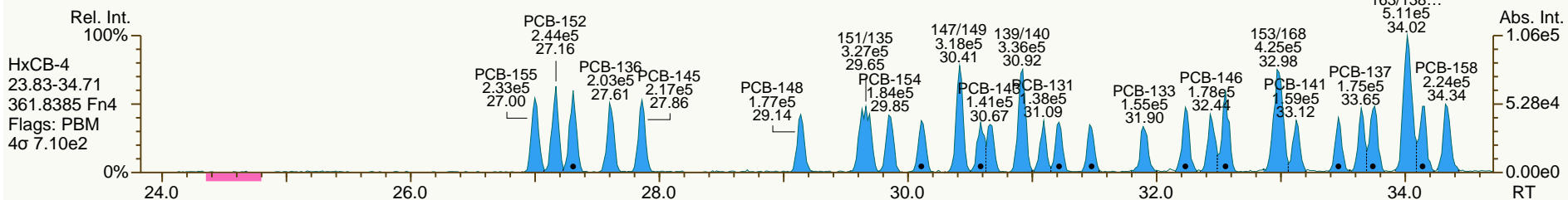
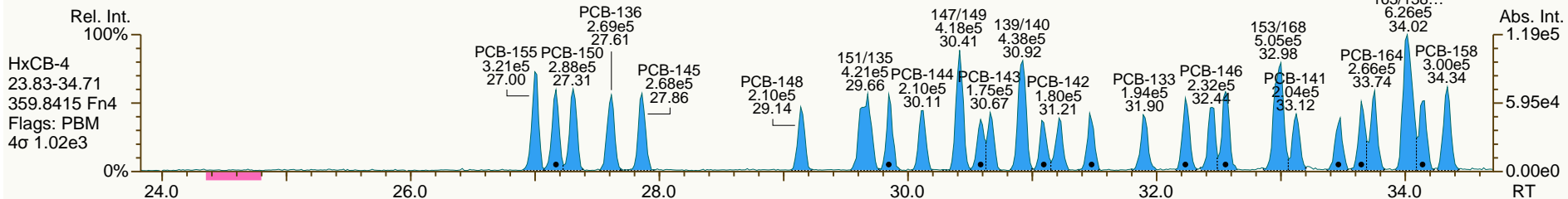
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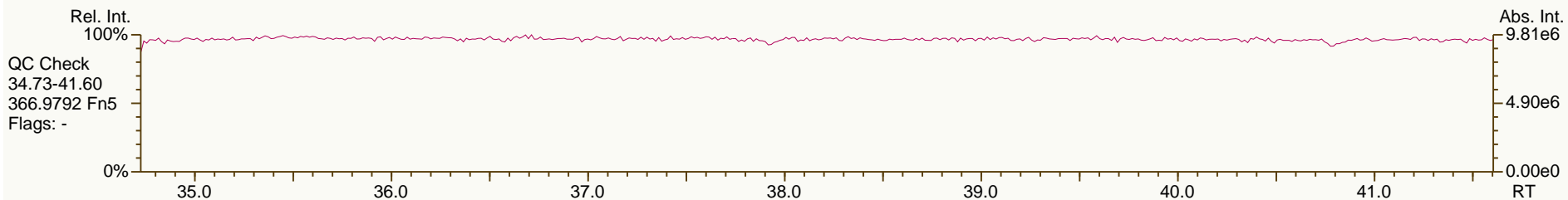
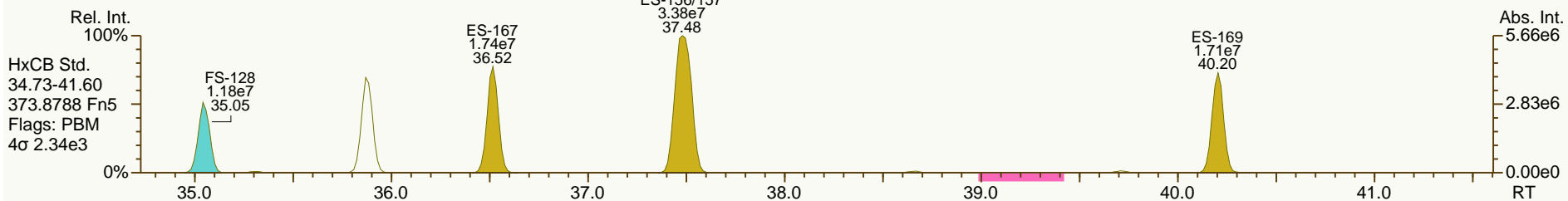
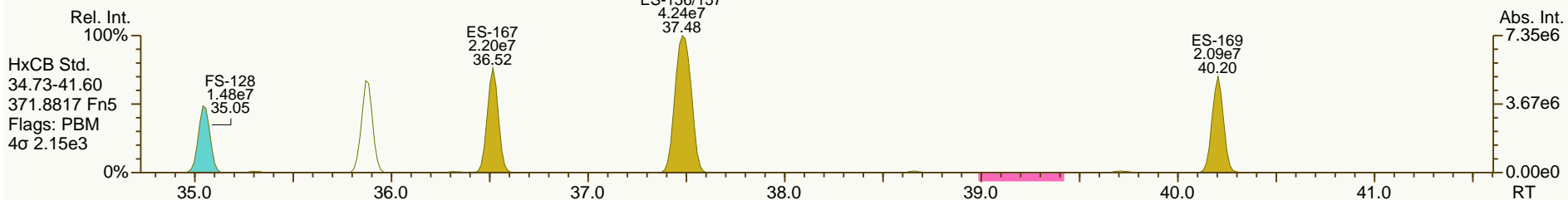
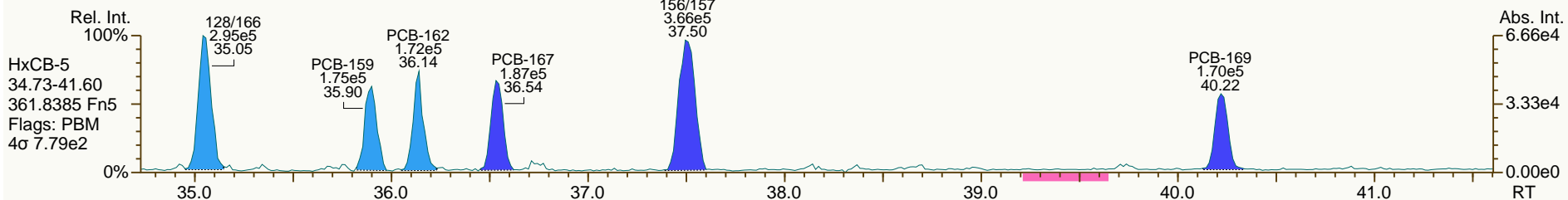
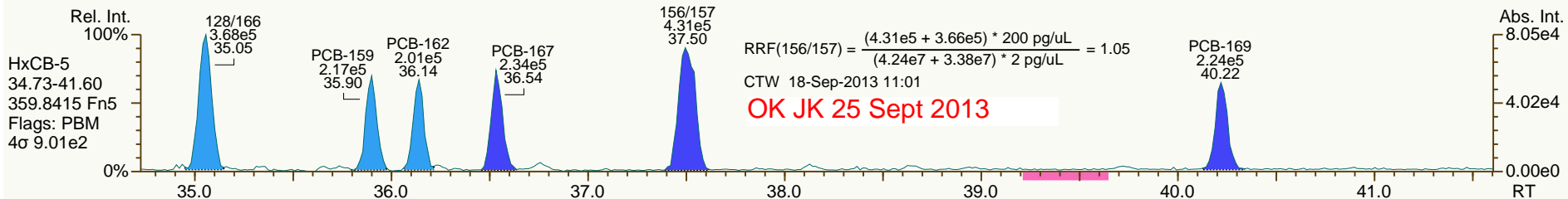
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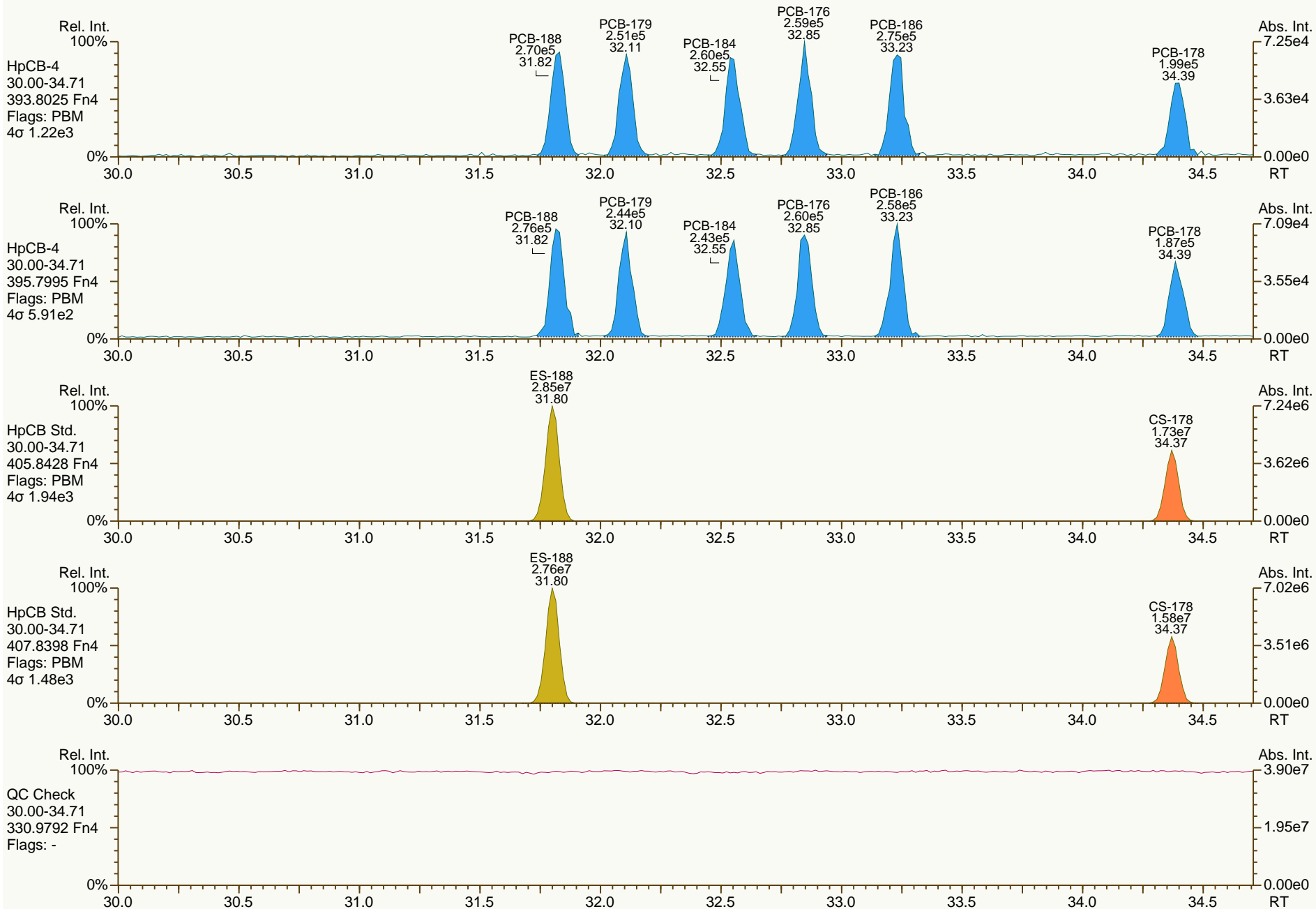
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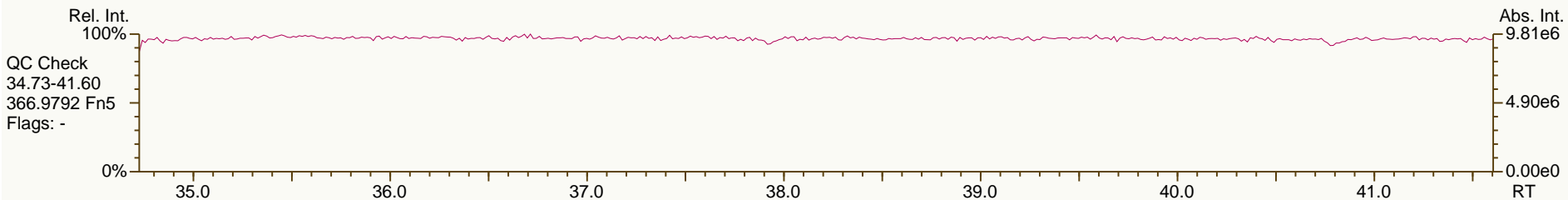
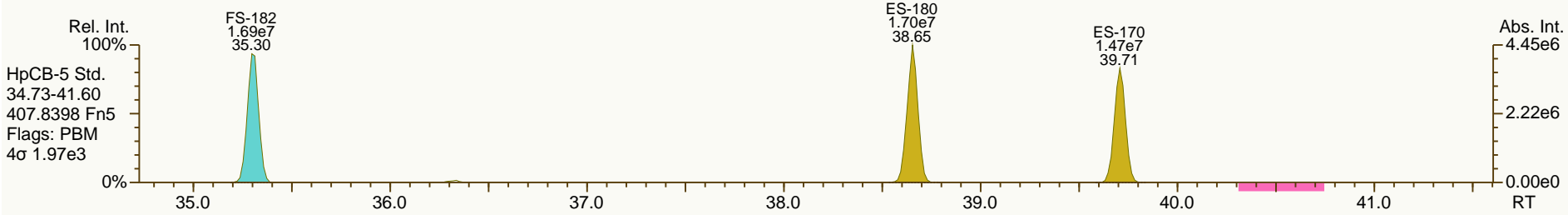
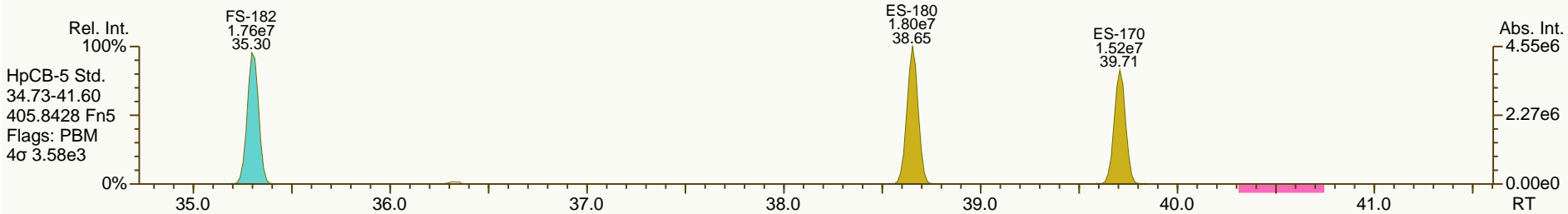
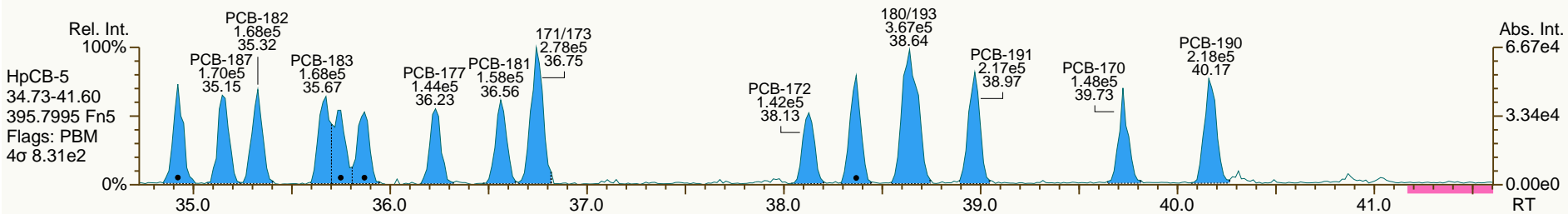
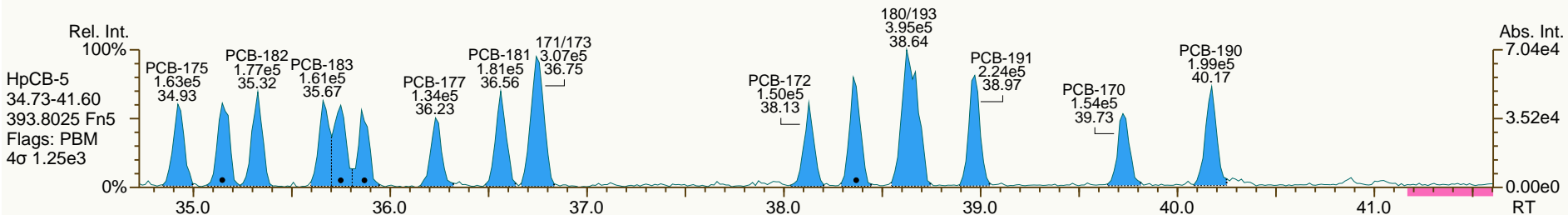
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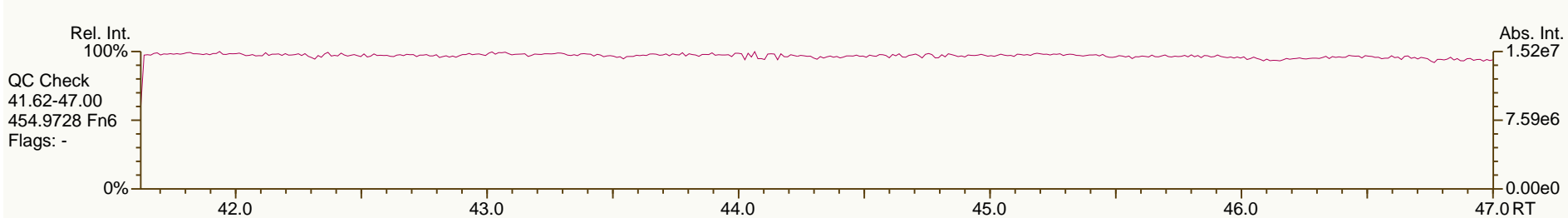
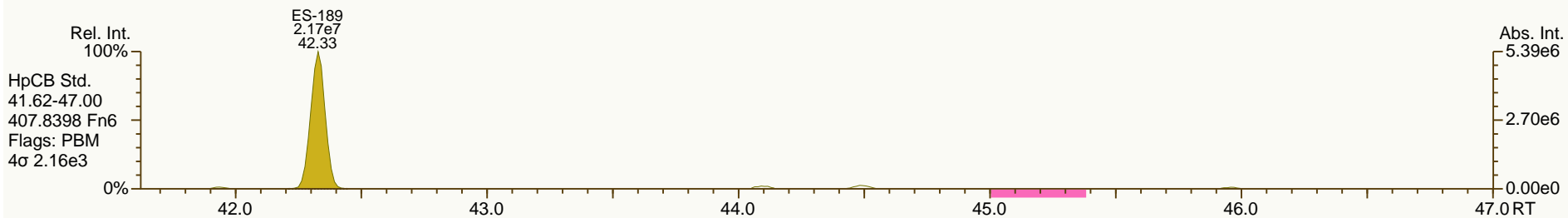
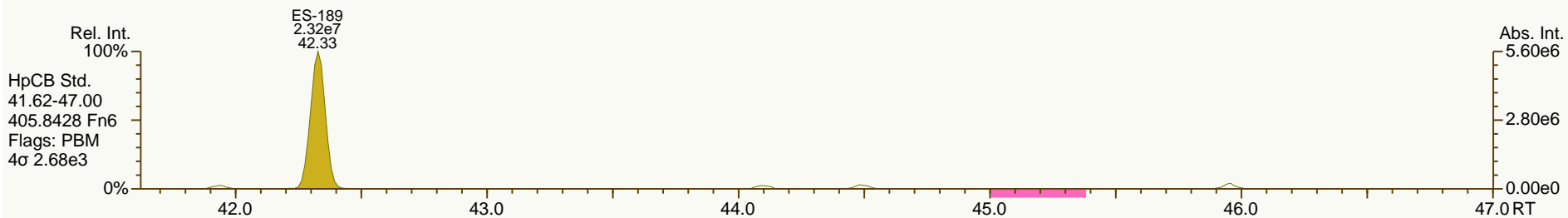
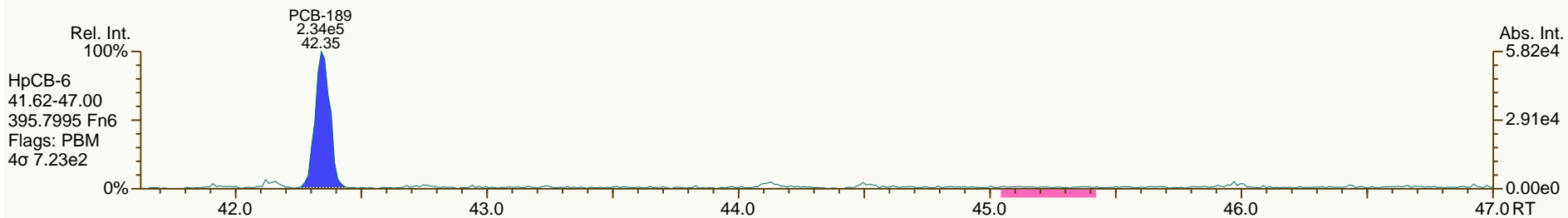
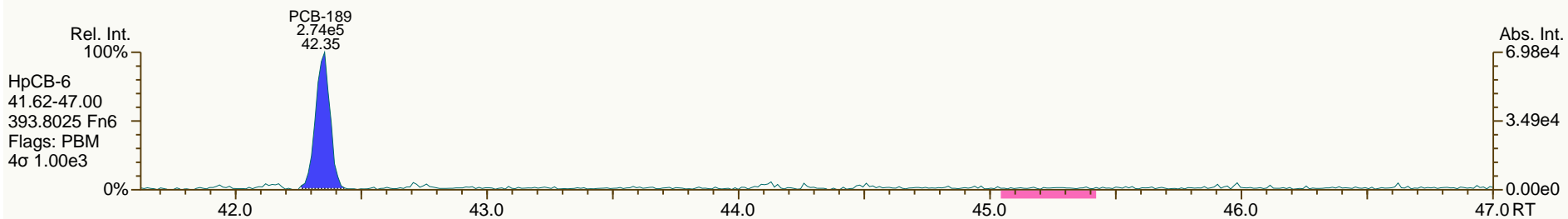
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 User: CTW Datafile: 130911S04



SGS-AP ID: CS1_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-5
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 51

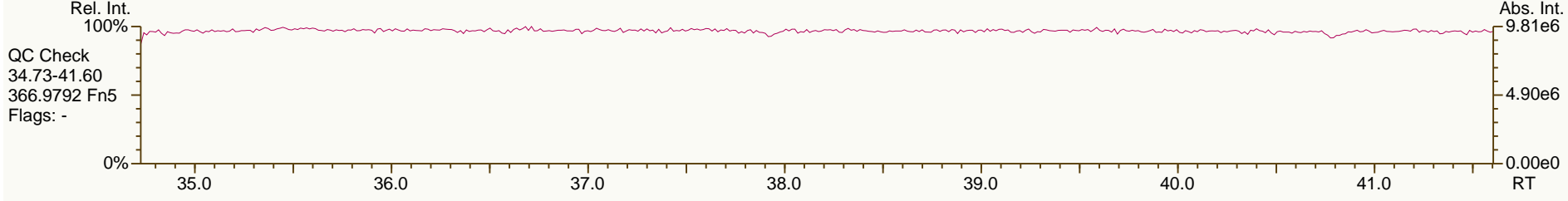
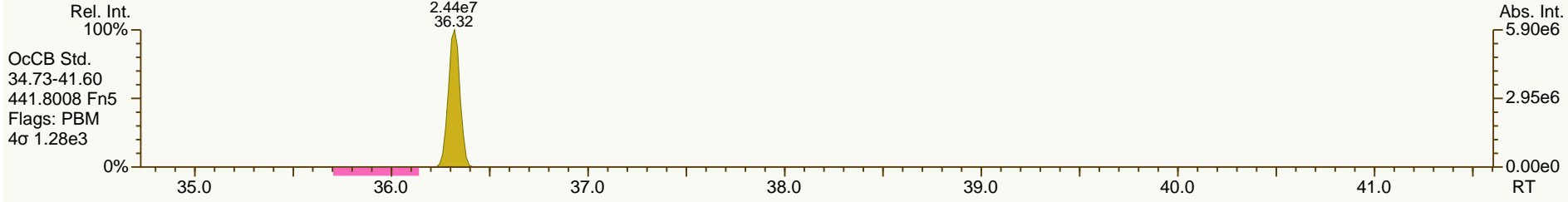
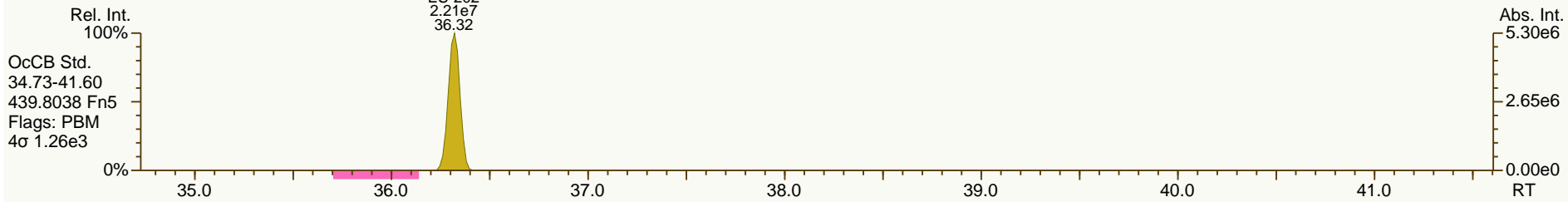
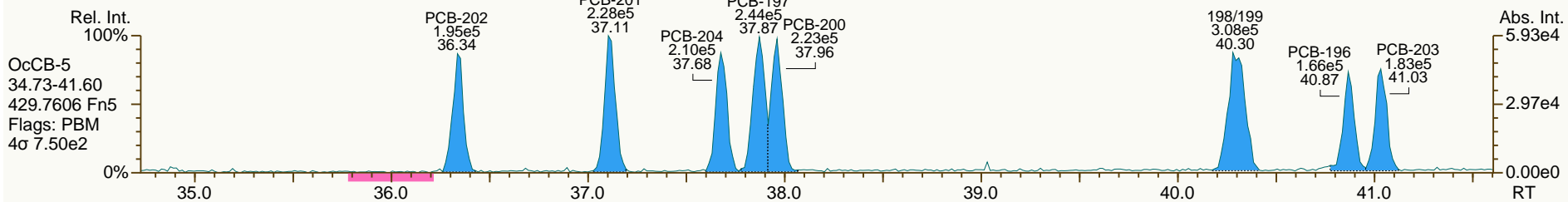
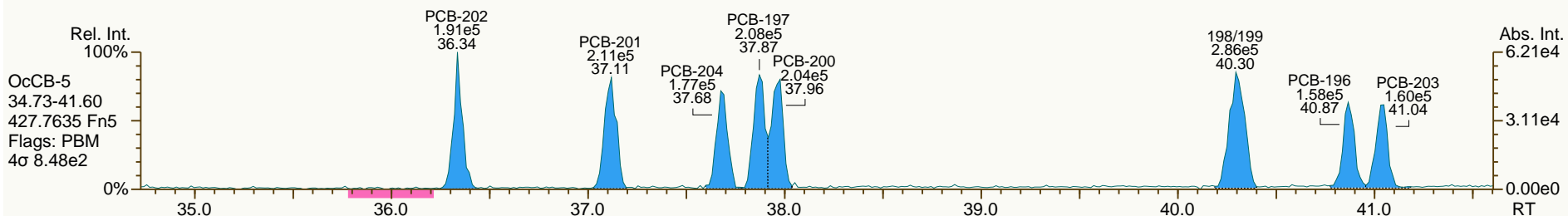
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 User: CTW Datafile: 130911S04



SGS-AP ID: CS1_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-5
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 51

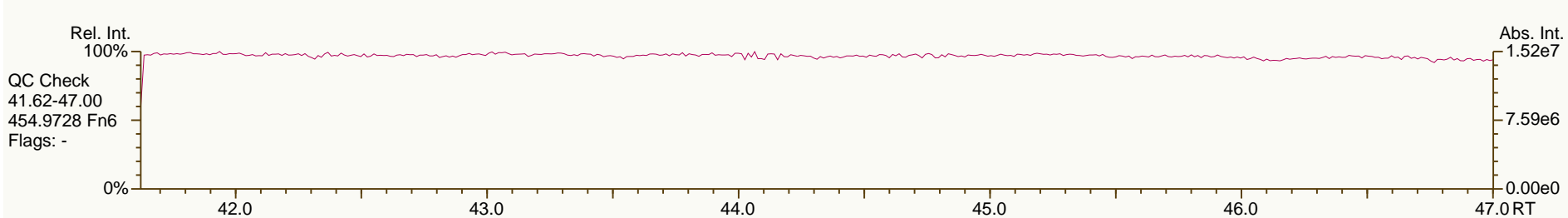
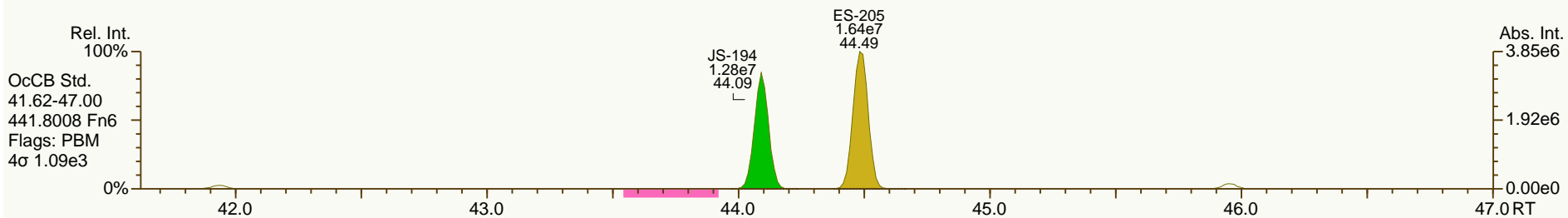
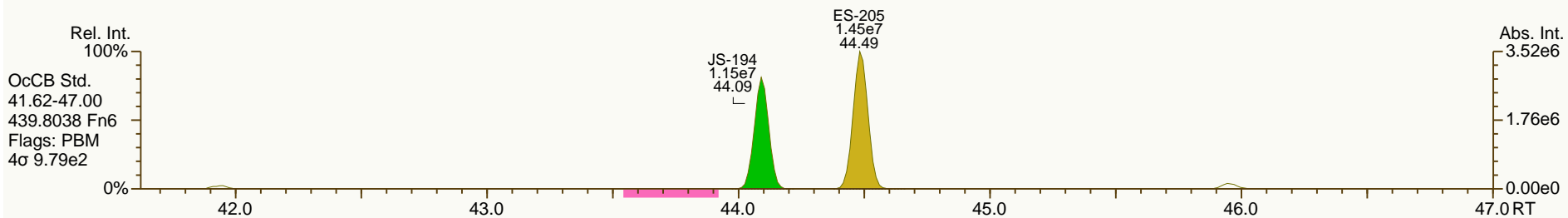
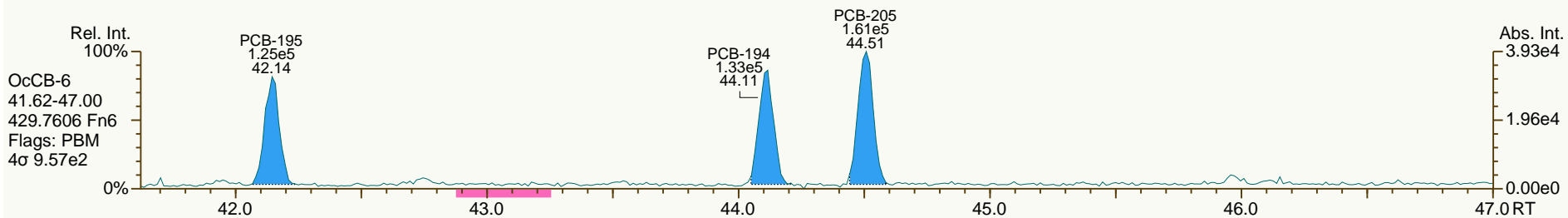
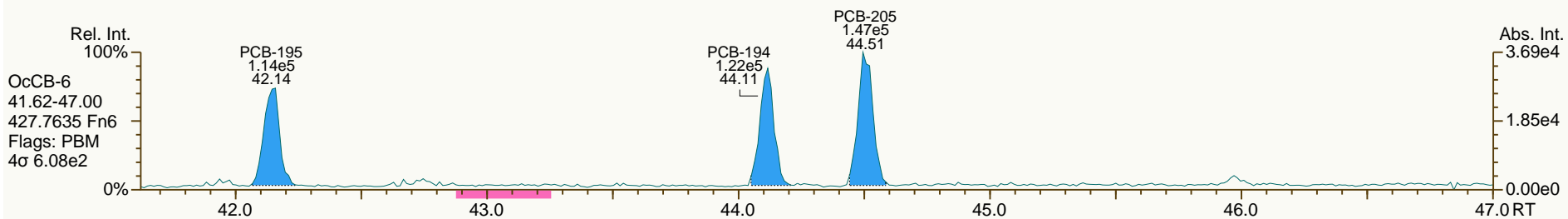
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SGS-AP ID: CS1_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-5
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 51

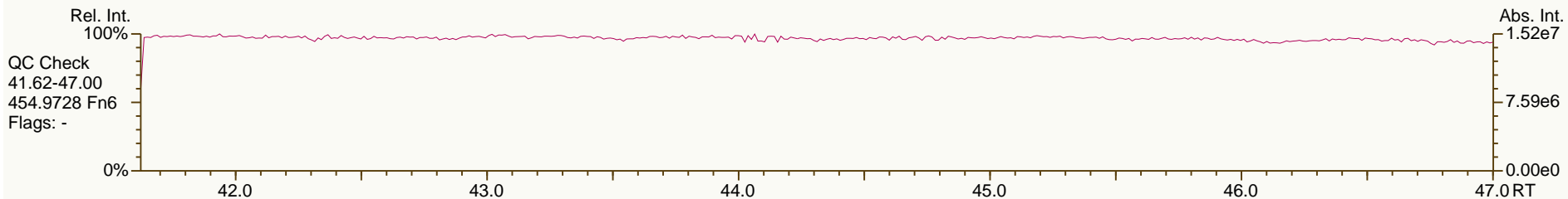
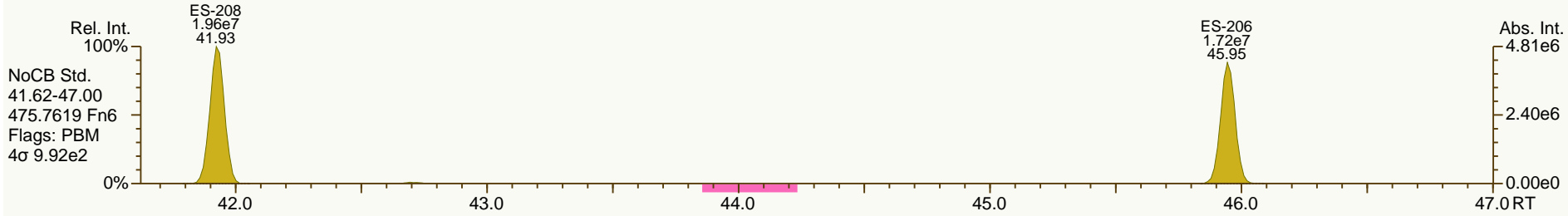
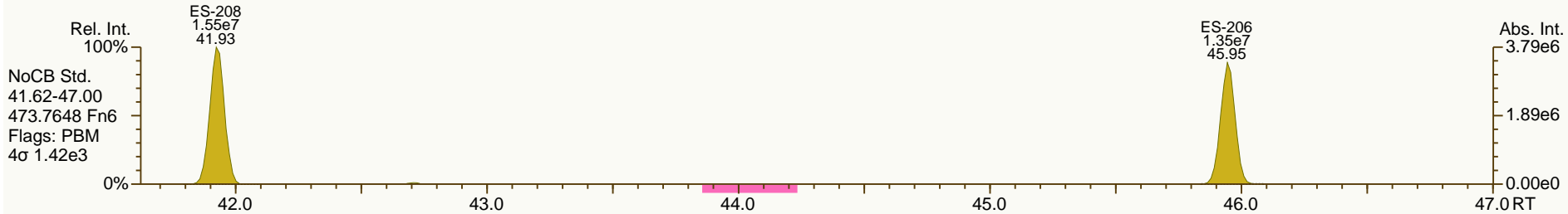
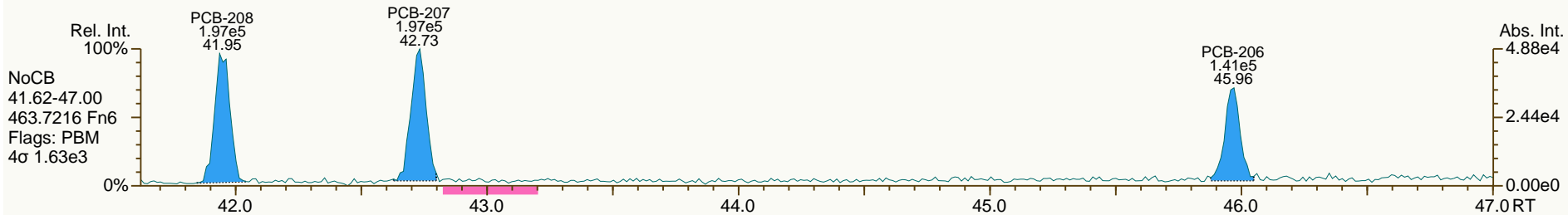
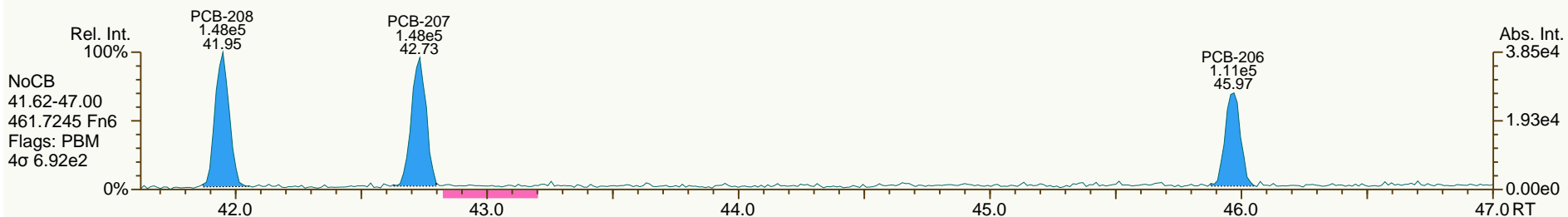
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 User: CTW Datafile: 130911S04



SGS-AP ID: CS1_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-5
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 51

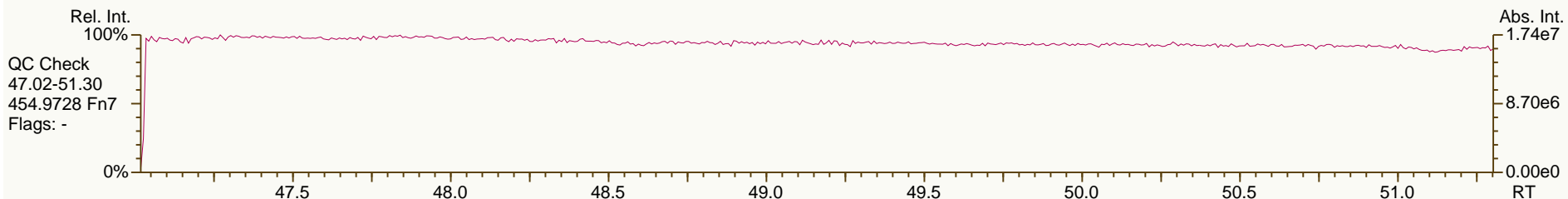
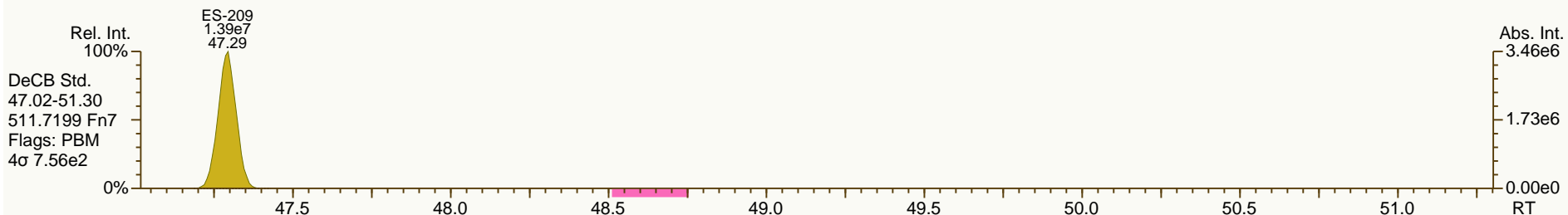
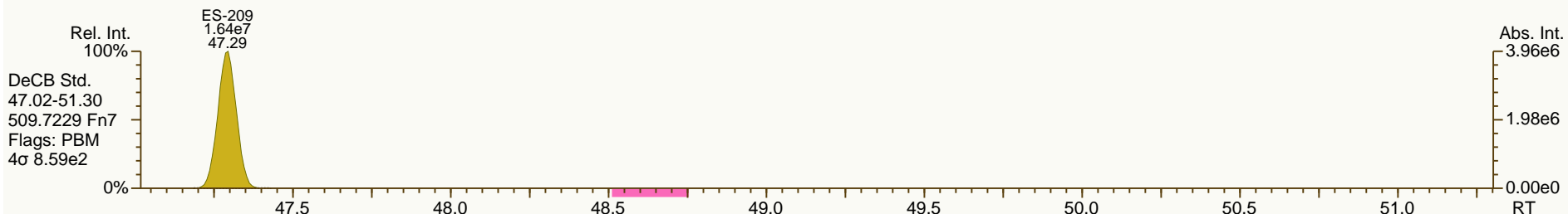
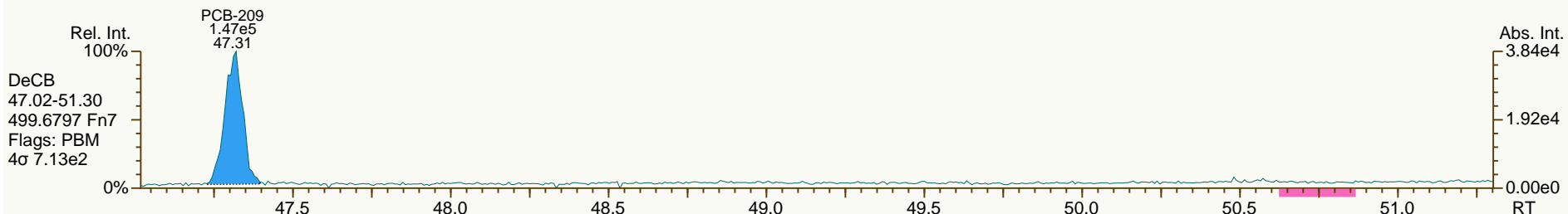
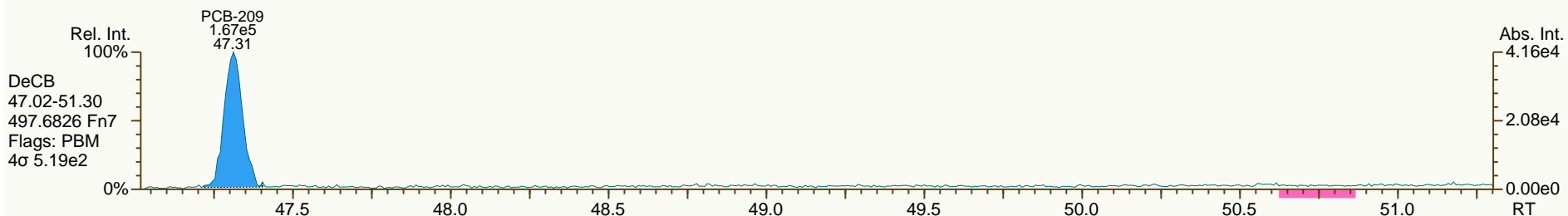
Acq: 11-Sep-2013 14:36:37
 User: CTW Datafile: 130911S04



SGS-AP ID: CS1_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-5
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 51

Acq: 11-Sep-2013 14:36:37
 User: CTW Datafile: 130911S04



PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:36			
Lab ID:	CS2_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013						
Acquired:	11-SEP-2013 15:46							
Datafile:	130911S05							
Name	RT	Response	RA	ICAL	RRF	Dev'n		
PCB-77 33'44'-TeCB	29.43	3.15E+06	0.80 Y	1.51	1.41	-6.5%		
PCB-81 344'5'-TeCB	28.96	2.98E+06	0.77 Y	1.27	1.21	-4.9%		
PCB-105 233'44'-PeCB	32.38	1.91E+06	0.61 Y	1.00	0.92	-8.0%		
PCB-114 2344'5'-PeCB	31.84	2.07E+06	0.61 Y	1.06	0.98	-7.9%		
PCB-118 23'44'5'-PeCB	31.39	1.95E+06	0.60 Y	1.01	0.94	-7.2%		
PCB-123 23'44'5'-PeCB	31.11	2.08E+06	0.61 Y	1.06	1.04	-2.1%		
PCB-126 33'44'5'-PeCB	34.98	2.66E+06	0.62 Y	1.26	1.20	-5.0%		
PCB-156/157 ...-HxCB	37.51	3.63E+06	1.22 Y	1.06	0.99	-7.0%		
PCB-167 23'44'55'-HxCB	36.55	1.98E+06	1.22 Y	1.12	1.05	-6.3%		
PCB-169 33'44'55'-HxCB	40.23	1.86E+06	1.30 Y	1.09	1.02	-6.4%		
PCB-189 233'44'55'-HpCB	42.35	2.31E+06	1.09 Y	1.15	1.07	-7.1%		
PCB-209 DeCB	47.32	1.41E+06	1.18 Y	1.03	0.96	-7.4%		
ES PCB-1	9.96	7.40E+07	3.19 Y	1.04	1.05	0.6%		
ES PCB-3	11.89	6.92E+07	3.24 Y	0.99	0.98	-1.0%		
ES PCB-4	12.11	4.96E+07	1.56 Y	0.71	0.70	-1.2%		
ES PCB-15	17.23	7.54E+07	1.63 Y	1.09	1.07	-2.0%		
ES PCB-19	14.83	4.18E+07	1.04 Y	0.59	0.59	0.2%		
ES PCB-37	23.22	5.43E+07	1.08 Y	1.32	1.32	0.0%		
ES PCB-54	17.48	5.58E+07	0.78 Y	1.35	1.35	0.3%		
ES PCB-77	29.41	4.45E+07	0.80 Y	1.07	1.08	1.2%		
ES PCB-81	28.94	4.93E+07	0.80 Y	1.19	1.20	0.4%		
ES PCB-104	22.18	4.97E+07	1.52 Y	1.62	1.59	-1.6%		
ES PCB-105	32.36	4.16E+07	1.54 Y	1.30	1.33	2.5%		
ES PCB-114	31.81	4.23E+07	1.58 Y	1.32	1.36	2.9%		
ES PCB-118	31.37	4.16E+07	1.56 Y	1.30	1.34	2.5%		
ES PCB-123	31.09	4.01E+07	1.52 Y	1.26	1.29	2.0%		
ES PCB-126	34.96	4.44E+07	1.60 Y	1.41	1.42	1.2%		
ES PCB-153	32.95	3.58E+07	1.26 Y	1.15	1.16	0.9%		
ES PCB-155	26.99	4.74E+07	1.27 Y	1.53	1.54	0.3%		
ES PCB-156/157	37.49	7.34E+07	1.24 Y	1.19	1.19	0.3%		
ES PCB-167	36.52	3.79E+07	1.28 Y	1.22	1.23	0.4%		
ES PCB-169	40.21	3.67E+07	1.26 Y	1.18	1.19	0.7%		
ES PCB-170	39.72	2.85E+07	1.05 Y	1.22	1.20	-1.6%		
ES PCB-180	38.66	3.24E+07	1.05 Y	1.41	1.37	-2.8%		
ES PCB-188	31.81	5.18E+07	1.09 Y	1.71	1.68	-1.4%		
ES PCB-189	42.34	4.32E+07	1.05 Y	1.84	1.82	-0.8%		
ES PCB-202	36.33	4.33E+07	0.88 Y	1.42	1.40	-0.9%		
ES PCB-205	44.49	2.97E+07	0.89 Y	1.25	1.25	-0.1%		
ES PCB-206	45.95	2.95E+07	0.79 Y	1.24	1.24	0.5%		
ES PCB-208	41.93	3.35E+07	0.78 Y	1.42	1.42	-0.3%		
ES PCB-209	47.30	2.94E+07	1.18 Y	1.23	1.24	0.6%		

PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:36		
Lab ID:	CS2_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 15:46						
Datafile:	130911S05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	19.82	5.92E+07	1.09 Y	1.06	1.09	2.5%	
SS PCB-111	29.45	4.29E+07	1.57 Y	1.06	1.07	0.9%	
SS PCB-178	34.38	3.05E+07	1.09 Y	0.58	0.59	1.1%	
CS PCB-28	19.82	5.92E+07	1.09 Y	1.40	1.44	2.4%	
CS PCB-111	29.45	4.29E+07	1.57 Y	1.34	1.38	3.0%	
CS PCB-178	34.38	3.05E+07	1.09 Y	0.99	0.99	-0.3%	
JS PCB-9	13.85	7.06E+07	1.63 Y	-	-	-	
JS PCB-52	21.38	4.12E+07	0.78 Y	-	-	-	
JS PCB-101	27.18	3.12E+07	1.58 Y	-	-	-	
JS PCB-138	33.99	3.08E+07	1.26 Y	-	-	-	
JS PCB-194	44.10	2.37E+07	0.87 Y	-	-	-	
PCB-1 2-MoCB	9.97	4.14E+06	3.12 Y	1.20	1.12	-6.6%	
PCB-3 4-MoCB	11.91	4.06E+06	3.15 Y	1.24	1.17	-5.2%	
PCB-4 22'-DiCB	12.12	2.23E+06	1.49 Y	0.97	0.90	-7.4%	
PCB-15 44'-DiCB	17.24	4.46E+06	1.43 Y	1.23	1.18	-3.7%	
PCB-19 22'6'-TrCB	14.84	1.83E+06	1.04 Y	0.97	0.87	-9.7%	
PCB-37 344'-TrCB	23.24	3.34E+06	1.05 Y	1.28	1.23	-4.1%	
PCB-54 22'66'-TeCB	17.50	2.62E+06	0.79 Y	1.00	0.94	-6.3%	
PCB-104 22'466'-PeCB	22.20	2.51E+06	0.64 Y	1.06	1.01	-4.4%	
PCB-153/168 ...-HxCB	32.99	4.22E+06	1.29 Y	1.26	1.18	-6.2%	
PCB-155 22'44'66'-HxCB	27.01	2.50E+06	1.22 Y	1.12	1.06	-6.0%	
PCB-170 22'33'44'5'-HpCB	39.73	1.34E+06	1.05 Y	1.01	0.94	-6.5%	
PCB-180/193 ...-HpCB	38.65	3.41E+06	1.06 Y	1.11	1.05	-5.4%	
PCB-188 22'34'566'-HpCB	31.83	2.36E+06	1.06 Y	0.97	0.91	-6.1%	
PCB-202 22'33'55'66'-OcCB	36.35	1.73E+06	0.90 Y	0.83	0.80	-3.8%	
PCB-205 233'44'55'6'-OcCB	44.51	1.49E+06	0.89 Y	1.08	1.00	-7.1%	
PCB-208 22'33'455'66'-NoCB	41.96	1.51E+06	0.79 Y	0.99	0.90	-9.5%	
PCB-206 22'33'44'55'6'-NoCB	45.97	1.13E+06	0.78 Y	0.83	0.77	-7.5%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS2_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 15:46						
Datafile:	130911S05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	9.97	4.14E+06	3.12 Y	1.20	1.12	-6.6%	
PCB-2 3-MoCB	11.75	4.11E+06	3.22 Y	1.25	1.19	-4.7%	
PCB-3 4-MoCB	11.91	4.06E+06	3.15 Y	1.24	1.17	-5.2%	
PCB-4 22'-DiCB	12.12	2.23E+06	1.49 Y	0.97	0.90	-7.4%	
PCB-10 26'-DiCB	12.28	3.56E+06	1.41 Y	1.51	1.44	-4.9%	
PCB-9 25'-DiCB	13.86	3.72E+06	1.59 Y	1.06	0.99	-6.8%	
PCB-7 24'-DiCB	14.00	4.44E+06	1.47 Y	1.23	1.18	-4.3%	
PCB-6 23'-DiCB	14.21	4.19E+06	1.43 Y	1.14	1.11	-2.2%	
PCB-5 23'-DiCB	14.48	4.28E+06	1.48 Y	1.15	1.14	-1.0%	
PCB-8 24'-DiCB	14.59	4.43E+06	1.47 Y	1.18	1.18	0.0%	
PCB-14 35'-DiCB	15.99	4.88E+06	1.52 Y	1.31	1.30	-1.3%	
PCB-11 33'-DiCB	16.71	4.17E+06	1.51 Y	1.17	1.11	-5.6%	
PCB-13/12 34'/34'-DiCB	16.98	8.36E+06	1.50 Y	1.17	1.11	-4.9%	
PCB-15 44'-DiCB	17.24	4.46E+06	1.43 Y	1.23	1.18	-3.7%	
PCB-19 22'6'-TrCB	14.84	1.83E+06	1.04 Y	0.97	0.87	-9.7%	
PCB-30/18 246/22'5'-TrCB	16.44	4.78E+06	1.05 Y	1.23	1.14	-7.5%	
PCB-17 22'4'-TrCB	16.81	2.09E+06	1.06 Y	1.06	1.00	-5.5%	
PCB-27 23'6'-TrCB	16.99	2.75E+06	1.04 Y	1.44	1.31	-8.7%	
PCB-24 236'-TrCB	17.11	2.62E+06	1.04 Y	1.37	1.25	-8.5%	
PCB-16 22'3'-TrCB	17.20	1.62E+06	1.06 Y	0.80	0.77	-4.0%	
PCB-32 24'6'-TrCB	17.65	3.11E+06	1.07 Y	1.59	1.49	-6.5%	
PCB-34 23'5'-TrCB	18.73	3.23E+06	1.10 Y	1.26	1.19	-5.9%	
PCB-23 235'-TrCB	18.86	3.31E+06	1.05 Y	1.31	1.22	-6.8%	
PCB-26/29 23'5'/245'-TrCB	19.13	6.76E+06	1.06 Y	1.33	1.24	-6.7%	
PCB-25 23'4'-TrCB	19.32	3.42E+06	1.03 Y	1.33	1.26	-5.4%	
PCB-31 24'5'-TrCB	19.59	3.56E+06	1.08 Y	1.39	1.31	-5.4%	
PCB-28/20 244'/233'-TrCB	19.85	6.70E+06	1.07 Y	1.30	1.23	-5.1%	
PCB-21/33 234/23'4'-TrCB	20.01	6.85E+06	1.07 Y	1.34	1.26	-6.1%	
PCB-22 234'-TrCB	20.38	3.15E+06	1.08 Y	1.22	1.16	-4.7%	
PCB-36 33'5'-TrCB	21.71	3.50E+06	1.07 Y	1.35	1.29	-4.5%	
PCB-39 34'5'-TrCB	22.01	3.56E+06	1.05 Y	1.40	1.31	-6.2%	
PCB-38 345'-TrCB	22.50	3.29E+06	1.07 Y	1.25	1.21	-3.1%	
PCB-35 33'4'-TrCB	22.90	3.16E+06	1.06 Y	1.23	1.16	-5.5%	
PCB-37 344'-TrCB	23.24	3.34E+06	1.05 Y	1.28	1.23	-4.1%	
PCB-54 22'66'-TeCB	17.50	2.62E+06	0.79 Y	1.00	0.94	-6.3%	
PCB-50/53 22'46'/22'56'-TeCB	19.36	3.76E+06	0.78 Y	0.82	0.76	-6.4%	
PCB-45 22'36'-TeCB	19.91	1.64E+06	0.77 Y	0.73	0.67	-8.9%	
PCB-51 22'46'-TeCB	19.98	1.87E+06	0.77 Y	0.79	0.76	-4.1%	
PCB-46 22'36'-TeCB	20.18	1.51E+06	0.78 Y	0.66	0.61	-6.8%	
PCB-52 22'55'-TeCB	21.40	1.84E+06	0.76 Y	0.79	0.75	-5.2%	
PCB-73 23'5'6'-TeCB	21.52	2.53E+06	0.75 Y	1.06	1.03	-3.1%	
PCB-43 22'35'-TeCB	21.60	1.41E+06	0.78 Y	0.64	0.57	-10.8%	
PCB-69/49 23'46'/22'45'-TeCB	21.79	4.36E+06	0.78 Y	0.95	0.88	-6.7%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS2_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 15:46						
Datafile:	130911S05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.05	1.85E+06	0.77 Y	0.79	0.75	-4.3%	
PCB-44/47/65 ...-TeCB	22.26	5.87E+06	0.78 Y	0.84	0.79	-5.5%	
PCB-59/62/75 ...-TeCB	22.52	7.43E+06	0.78 Y	1.07	1.01	-6.3%	
PCB-42 22'34'-TeCB	22.69	1.69E+06	0.80 Y	0.72	0.69	-4.5%	
PCB-41 22'34'-TeCB	23.00	1.58E+06	0.80 Y	0.66	0.64	-2.4%	
PCB-71/40 23'4'6/22'33'-TeCB	23.10	3.68E+06	0.78 Y	0.79	0.75	-5.9%	
PCB-64 23'4'6'-TeCB	23.29	2.63E+06	0.77 Y	1.13	1.07	-5.9%	
PCB-72 23'55'-TeCB	24.01	3.00E+06	0.79 Y	1.31	1.22	-6.9%	
PCB-68 23'45'-TeCB	24.25	3.32E+06	0.79 Y	1.43	1.35	-5.5%	
PCB-57 23'35'-TeCB	24.61	2.96E+06	0.79 Y	1.26	1.20	-4.5%	
PCB-58 23'35'-TeCB	24.81	2.99E+06	0.80 Y	1.30	1.21	-6.9%	
PCB-67 23'45'-TeCB	24.95	3.16E+06	0.82 Y	1.35	1.28	-4.7%	
PCB-63 23'45'-TeCB	25.18	3.27E+06	0.84 Y	1.42	1.33	-6.5%	
PCB-61/70/74/76 ...-TeCB	25.45	1.22E+07	0.77 Y	1.32	1.24	-6.4%	
PCB-66 23'44'-TeCB	25.73	2.93E+06	0.77 Y	1.26	1.19	-5.7%	
PCB-55 23'34'-TeCB	25.87	2.91E+06	0.78 Y	1.24	1.18	-4.4%	
PCB-56 23'34'-TeCB	26.30	2.89E+06	0.80 Y	1.22	1.17	-4.3%	
PCB-60 23'44'-TeCB	26.48	2.99E+06	0.78 Y	1.29	1.21	-5.7%	
PCB-80 33'55'-TeCB	26.83	3.33E+06	0.78 Y	1.42	1.35	-4.8%	
PCB-79 33'45'-TeCB	28.12	3.43E+06	0.77 Y	1.47	1.39	-5.2%	
PCB-78 33'45'-TeCB	28.59	2.85E+06	0.76 Y	1.23	1.16	-6.4%	
PCB-104 22'466'-PeCB	22.20	2.51E+06	0.64 Y	1.06	1.01	-4.4%	
PCB-96 22'366'-PeCB	22.51	2.09E+06	0.61 Y	0.90	0.84	-6.5%	
PCB-103 22'45'6'-PeCB	24.16	1.56E+06	0.63 Y	0.84	0.78	-7.6%	
PCB-94 22'356'-PeCB	24.35	1.36E+06	0.64 Y	0.73	0.68	-7.0%	
PCB-95 22'35'6'-PeCB	24.72	1.43E+06	0.61 Y	0.78	0.71	-8.5%	
PCB-100/93 22'44'6/22'356'-PeCB	24.91	2.90E+06	0.61 Y	0.77	0.72	-6.6%	
PCB-102 22'456'-PeCB	25.02	1.66E+06	0.61 Y	0.83	0.83	-0.6%	
PCB-98 22'34'6'-PeCB	25.09	1.30E+06	0.61 Y	0.75	0.65	-13.6%	
PCB-88 22'346'-PeCB	25.37	1.41E+06	0.61 Y	0.74	0.70	-5.3%	
PCB-91 22'34'6'-PeCB	25.45	1.47E+06	0.63 Y	0.83	0.73	-11.8%	
PCB-84 22'33'6'-PeCB	25.64	1.22E+06	0.61 Y	0.66	0.61	-8.2%	
PCB-89 22'346'-PeCB	26.04	1.28E+06	0.62 Y	0.69	0.64	-7.9%	
PCB-121 23'45'6'-PeCB	26.40	1.94E+06	0.63 Y	1.06	0.97	-8.7%	
PCB-92 22'355'-PeCB	26.71	1.37E+06	0.63 Y	0.73	0.68	-6.5%	
PCB-113/90/101 ...-PeCB	27.18	4.74E+06	0.60 Y	0.85	0.79	-7.6%	
PCB-83 22'33'5'-PeCB	27.60	1.16E+06	0.58 Y	0.65	0.58	-10.6%	
PCB-99 22'44'5'-PeCB	27.69	1.50E+06	0.62 Y	0.84	0.75	-11.0%	
PCB-112 23'3'56'-PeCB	27.79	1.92E+06	0.61 Y	1.00	0.96	-4.2%	
PCB-109/119/86/97/125...-PeCB	28.13	9.76E+06	0.60 Y	0.87	0.81	-6.9%	
PCB-117 23'4'56'-PeCB	28.65	1.66E+06	0.61 Y	0.88	0.83	-5.7%	
PCB-116/85 23'456/22'344'-PeCB	28.72	3.38E+06	0.62 Y	0.91	0.84	-7.9%	
PCB-110 23'3'4'6'-PeCB	28.87	1.98E+06	0.59 Y	0.99	0.99	-0.2%	

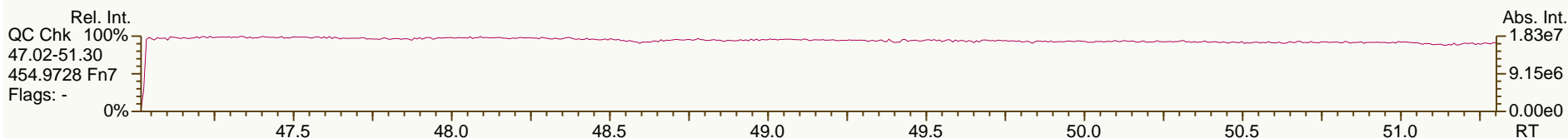
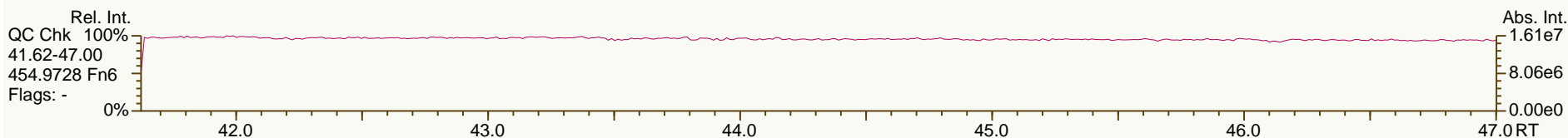
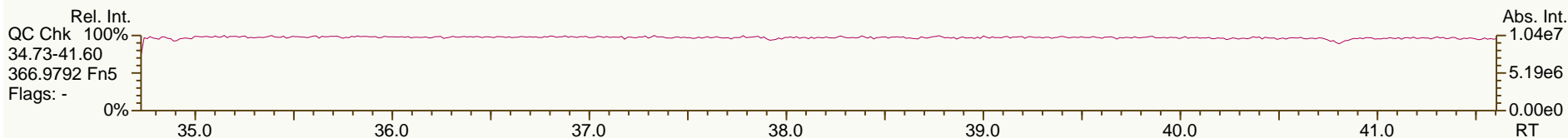
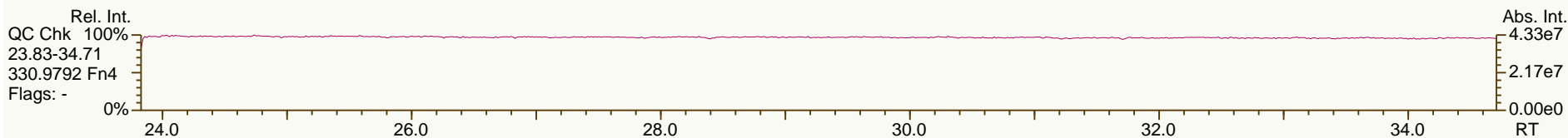
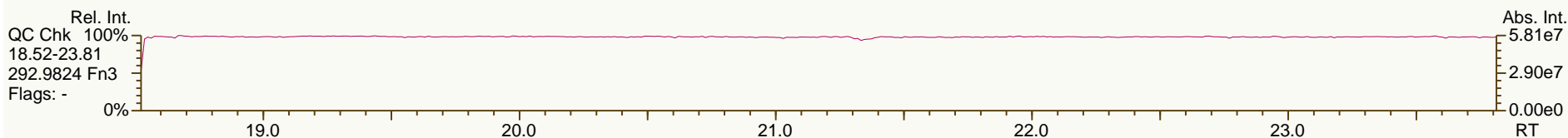
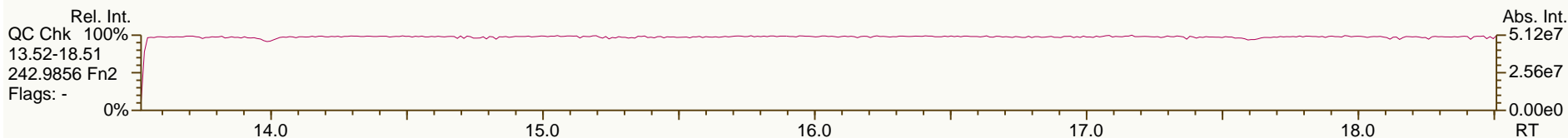
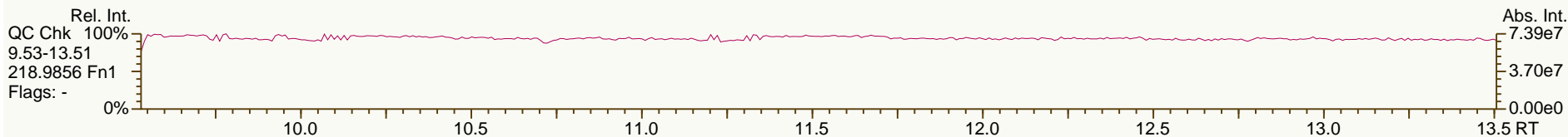
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Lab ID:	CS2_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 15:46						
Datafile:	130911S05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	28.94	1.73E+06	0.63 Y	1.01	0.86	-14.6%	
PCB-82 22'33'4-PeCB	29.13	1.15E+06	0.59 Y	0.62	0.57	-8.3%	
PCB-111 233'55'-PeCB	29.47	1.96E+06	0.60 Y	1.07	0.98	-8.7%	
PCB-120 23'455'-PeCB	29.86	1.98E+06	0.60 Y	1.07	0.99	-7.9%	
PCB-108/124 ...-PeCB	30.81	3.67E+06	0.62 Y	0.98	0.91	-7.1%	
PCB-107 233'4'5-PeCB	31.01	2.01E+06	0.60 Y	1.07	1.00	-6.4%	
PCB-106 233'45-PeCB	31.21	1.80E+06	0.59 Y	1.00	0.90	-10.4%	
PCB-122 233'4'5'-PeCB	31.68	1.76E+06	0.61 Y	0.89	0.83	-6.7%	
PCB-127 33'455'-PeCB	33.62	1.94E+06	0.61 Y	0.98	0.93	-5.1%	
PCB-155 22'44'66'-HxCB	27.01	2.50E+06	1.22 Y	1.12	1.06	-6.0%	
PCB-152 22'3566'-HxCB	27.17	2.25E+06	1.29 Y	1.05	0.95	-9.4%	
PCB-150 22'34'66'-HxCB	27.32	2.29E+06	1.32 Y	1.07	0.97	-9.4%	
PCB-136 22'33'66'-HxCB	27.62	2.20E+06	1.26 Y	0.99	0.93	-6.4%	
PCB-145 22'3466'-HxCB	27.87	2.15E+06	1.28 Y	1.00	0.91	-9.0%	
PCB-148 22'34'56'-HxCB	29.15	1.71E+06	1.29 Y	1.03	0.95	-7.4%	
PCB-151/135 ...-HxCB	29.67	3.29E+06	1.21 Y	1.00	0.92	-8.2%	
PCB-154 22'44'56'-HxCB	29.86	1.86E+06	1.26 Y	1.13	1.04	-8.0%	
PCB-144 22'345'6-HxCB	30.12	1.69E+06	1.29 Y	1.03	0.94	-8.2%	
PCB-147/149 ...-HxCB	30.42	3.36E+06	1.25 Y	1.03	0.94	-8.6%	
PCB-134 22'33'56-HxCB	30.59	1.38E+06	1.22 Y	0.84	0.77	-7.8%	
PCB-143 22'3456'-HxCB	30.67	1.62E+06	1.26 Y	0.95	0.91	-4.4%	
PCB-139/140 ...-HxCB	30.93	3.49E+06	1.25 Y	1.05	0.97	-7.1%	
PCB-131 22'33'46-HxCB	31.09	1.47E+06	1.23 Y	0.87	0.82	-6.0%	
PCB-142 22'3456-HxCB	31.22	1.52E+06	1.24 Y	0.91	0.85	-6.4%	
PCB-132 22'33'46'-HxCB	31.48	1.53E+06	1.20 Y	0.92	0.85	-7.2%	
PCB-133 22'33'55'-HxCB	31.91	1.59E+06	1.27 Y	0.97	0.89	-7.8%	
PCB-165 233'55'6-HxCB	32.24	1.99E+06	1.26 Y	1.19	1.11	-7.0%	
PCB-146 22'34'55'-HxCB	32.45	1.80E+06	1.26 Y	1.08	1.01	-7.2%	
PCB-161 233'45'6-HxCB	32.56	2.21E+06	1.25 Y	1.34	1.23	-8.4%	
PCB-153/168 ...-HxCB	32.99	4.22E+06	1.29 Y	1.26	1.18	-6.2%	
PCB-141 22'3455'-HxCB	33.13	1.63E+06	1.25 Y	0.98	0.91	-7.4%	
PCB-130 22'33'45'-HxCB	33.47	1.46E+06	1.31 Y	0.88	0.81	-7.1%	
PCB-137 22'344'5-HxCB	33.66	1.78E+06	1.23 Y	1.07	0.99	-7.3%	
PCB-164 233'4'5'6-HxCB	33.76	2.16E+06	1.24 Y	1.29	1.21	-6.5%	
PCB-163/138/129 ...-HxCB	34.03	5.24E+06	1.27 Y	1.05	0.97	-6.9%	
PCB-160 233'456-HxCB	34.15	2.02E+06	1.28 Y	1.26	1.13	-10.4%	
PCB-158 233'44'6-HxCB	34.34	2.35E+06	1.28 Y	1.40	1.31	-6.4%	
PCB-128/166 ...-HxCB	35.06	3.08E+06	1.24 Y	0.89	0.81	-8.3%	
PCB-159 233'455'-HxCB	35.90	1.84E+06	1.25 Y	1.04	0.97	-6.6%	
PCB-162 233'4'55'-HxCB	36.15	1.83E+06	1.29 Y	1.04	0.97	-6.9%	
PCB-188 22'34'566'-HpCB	31.83	2.36E+06	1.06 Y	0.97	0.91	-6.1%	
PCB-179 22'33'566'-HpCB	32.11	2.22E+06	1.05 Y	0.89	0.86	-4.3%	
PCB-184 22'344'66'-HpCB	32.56	2.19E+06	1.12 Y	0.87	0.84	-3.1%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS2_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 15:46						
Datafile:	130911S05						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	32.85	2.36E+06	1.03 Y	0.97	0.91	-5.5%	
PCB-186 22'34566'-HpCB	33.24	2.28E+06	1.05 Y	0.93	0.88	-5.9%	
PCB-178 22'33'55'6'-HpCB	34.40	1.62E+06	1.04 Y	0.67	0.62	-7.4%	
PCB-175 22'33'45'6'-HpCB	34.93	1.51E+06	1.06 Y	0.97	0.93	-4.3%	
PCB-187 22'34'55'6'-HpCB	35.16	1.57E+06	1.04 Y	1.02	0.97	-5.2%	
PCB-182 22'344'56'-HpCB	35.33	1.63E+06	1.03 Y	1.05	1.01	-4.1%	
PCB-183 22'344'5'6'-HpCB	35.68	1.66E+06	1.02 Y	1.07	1.03	-3.9%	
PCB-185 22'3455'6'-HpCB	35.76	1.43E+06	1.08 Y	0.96	0.88	-7.8%	
PCB-174 22'33'456'-HpCB	35.87	1.35E+06	1.07 Y	0.86	0.83	-2.6%	
PCB-177 22'33'45'6'-HpCB	36.24	1.29E+06	1.08 Y	0.83	0.79	-4.8%	
PCB-181 22'344'56'-HpCB	36.57	1.52E+06	1.01 Y	1.00	0.94	-6.0%	
PCB-171/173 ...-HpCB	36.76	2.60E+06	1.00 Y	0.86	0.80	-7.4%	
PCB-172 22'33'455'-HpCB	38.13	1.32E+06	1.02 Y	0.87	0.81	-6.8%	
PCB-192 233'455'6'-HpCB	38.37	1.78E+06	1.01 Y	1.19	1.10	-7.2%	
PCB-180/193 ...-HpCB	38.65	3.41E+06	1.06 Y	1.11	1.05	-5.4%	
PCB-191 233'44'5'6'-HpCB	38.98	1.91E+06	1.06 Y	1.23	1.18	-4.8%	
PCB-170 22'33'44'5'-HpCB	39.73	1.34E+06	1.05 Y	1.01	0.94	-6.5%	
PCB-190 233'44'56'-HpCB	40.18	1.86E+06	1.00 Y	1.42	1.31	-7.7%	
PCB-202 22'33'55'66'-OcCB	36.35	1.73E+06	0.90 Y	0.83	0.80	-3.8%	
PCB-201 22'33'45'66'-OcCB	37.12	1.94E+06	0.90 Y	0.94	0.90	-5.0%	
PCB-204 22'344'566'-OcCB	37.69	1.79E+06	0.89 Y	0.87	0.83	-5.2%	
PCB-197 22'33'44'66'-OcCB	37.88	2.02E+06	0.85 Y	0.97	0.94	-4.0%	
PCB-200 22'33'4566'-OcCB	37.97	1.74E+06	0.90 Y	0.89	0.80	-9.5%	
PCB-198/199 ...-OcCB	40.31	2.65E+06	0.87 Y	0.66	0.61	-6.6%	
PCB-196 22'33'44'56'-OcCB	40.88	1.45E+06	0.86 Y	0.70	0.67	-4.9%	
PCB-203 22'344'55'6'-OcCB	41.04	1.50E+06	0.92 Y	0.74	0.69	-5.9%	
PCB-195 22'33'44'56'-OcCB	42.15	1.06E+06	0.94 Y	0.78	0.71	-8.6%	
PCB-194 22'33'44'55'-OcCB	44.12	1.13E+06	0.92 Y	0.85	0.76	-9.9%	
PCB-205 233'44'55'6'-OcCB	44.51	1.49E+06	0.89 Y	1.08	1.00	-7.1%	
PCB-208 22'33'455'66'-NoCB	41.96	1.51E+06	0.79 Y	0.99	0.90	-9.5%	
PCB-207 22'33'44'566'-NoCB	42.74	1.58E+06	0.77 Y	1.03	0.94	-8.0%	
PCB-206 22'33'44'55'6'-NoCB	45.97	1.13E+06	0.78 Y	0.83	0.77	-7.5%	

SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

Acq: 11-Sep-2013 15:46:45
 User: CTW Datafile: 130911S05



SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

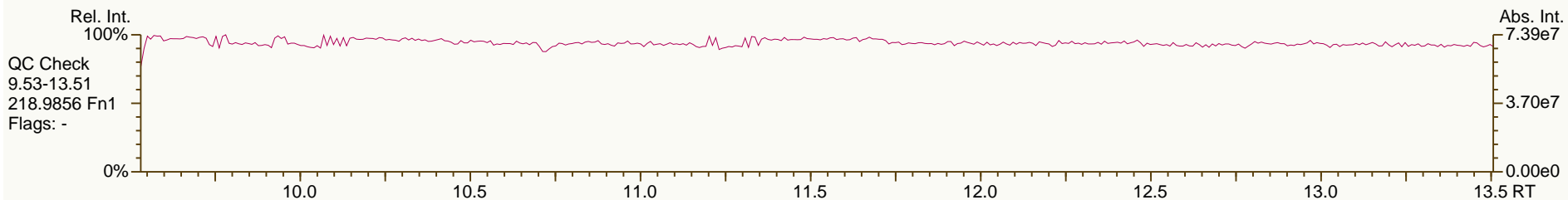
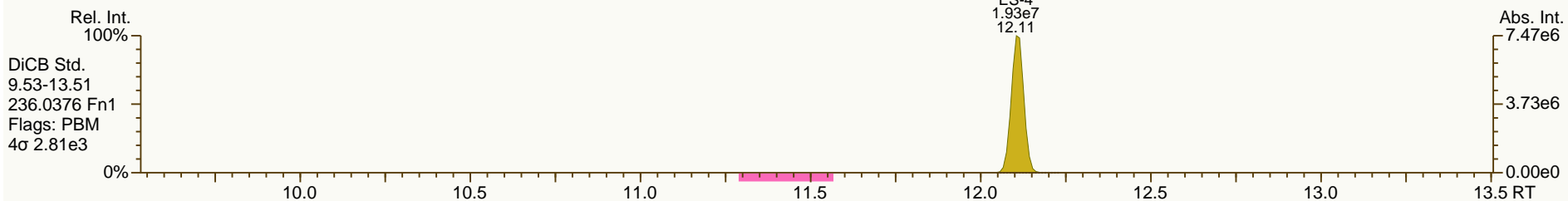
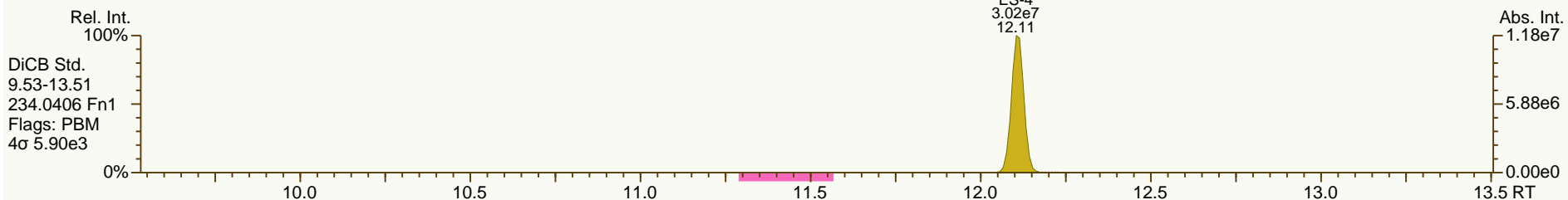
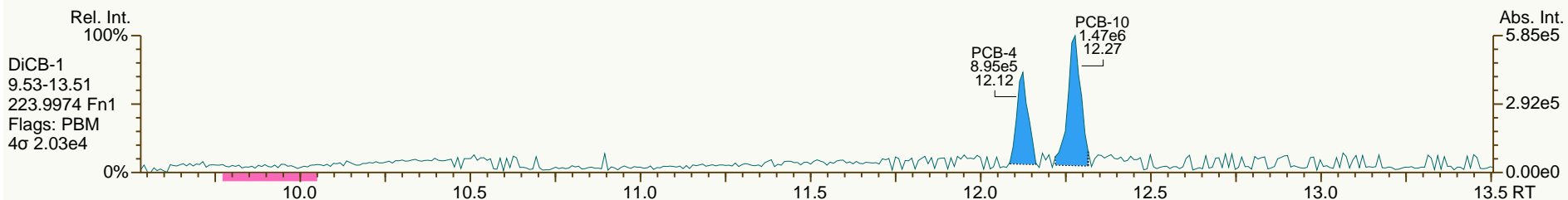
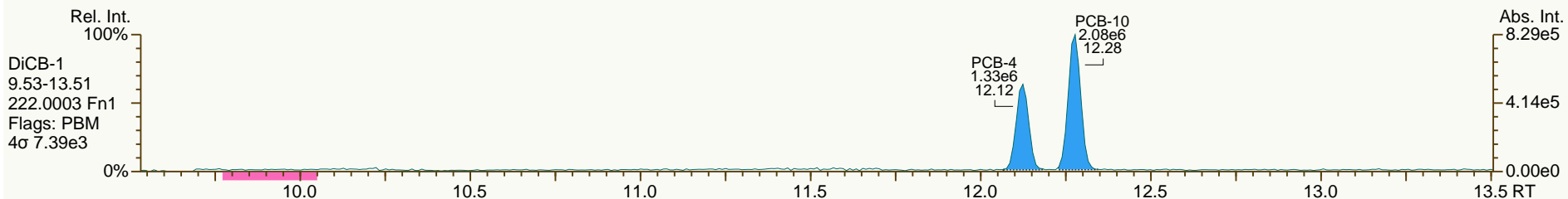
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

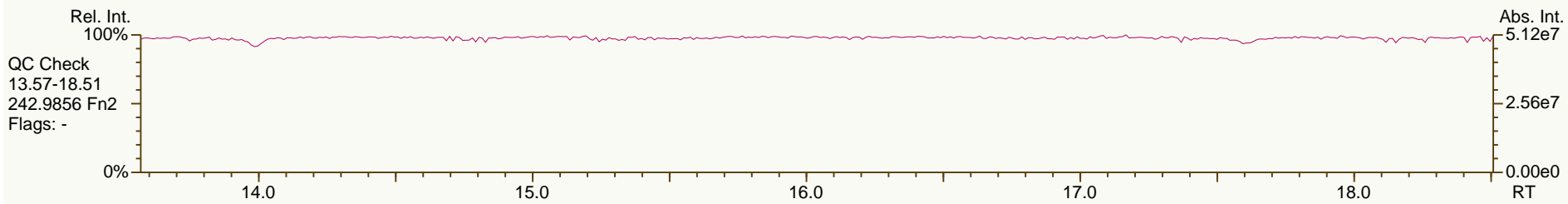
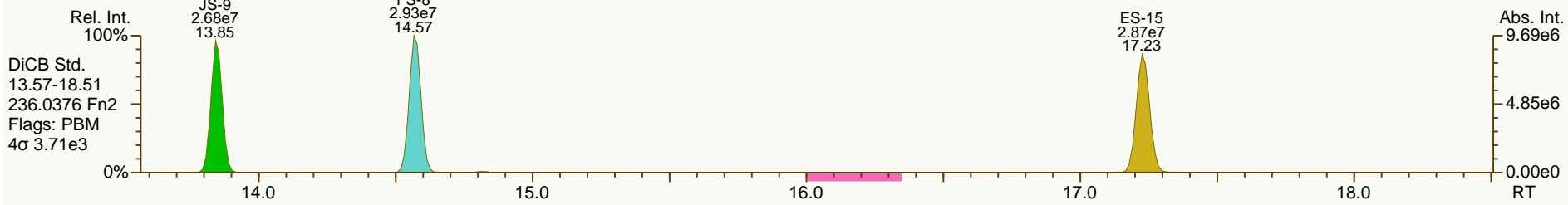
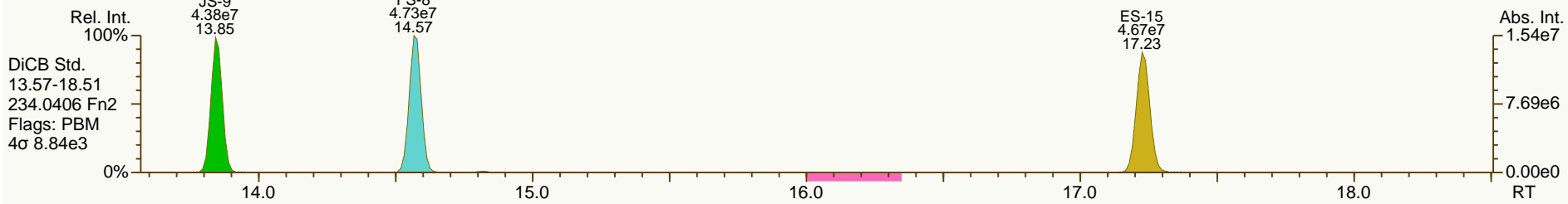
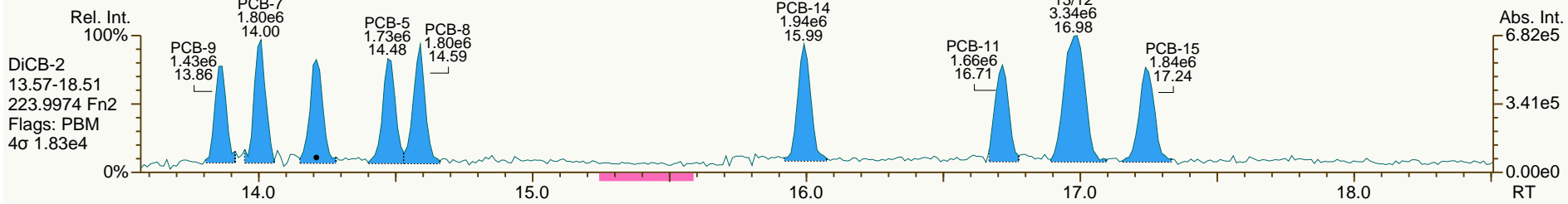
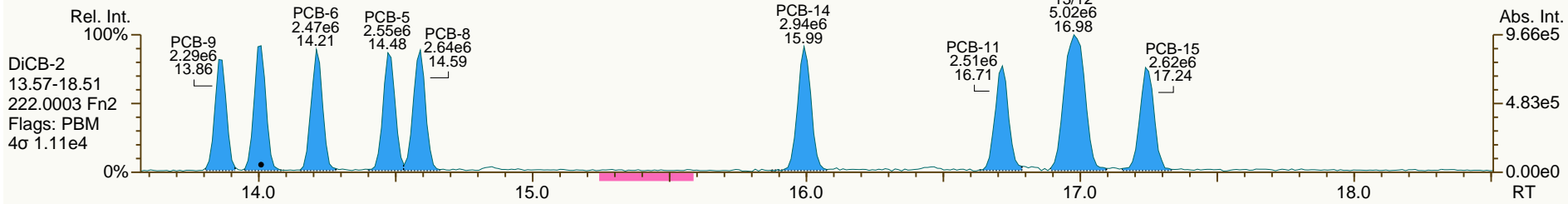
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

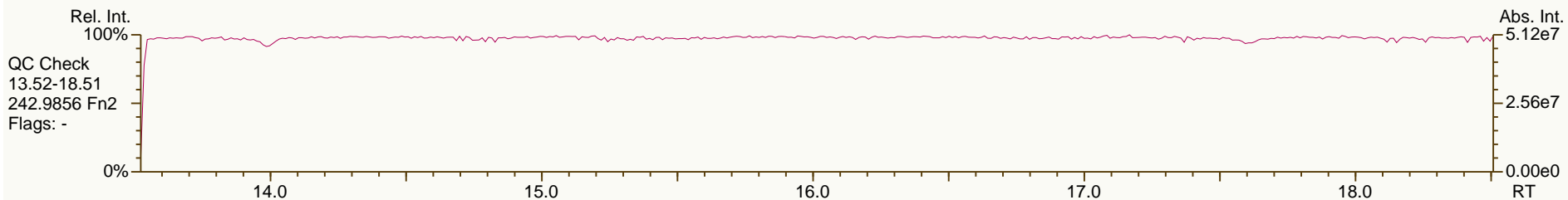
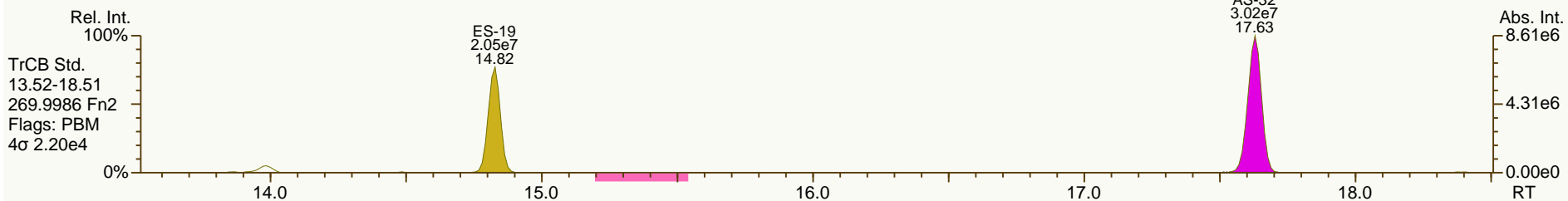
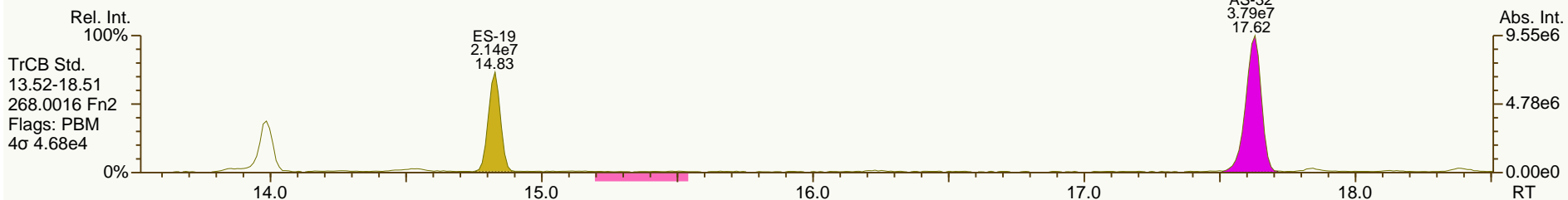
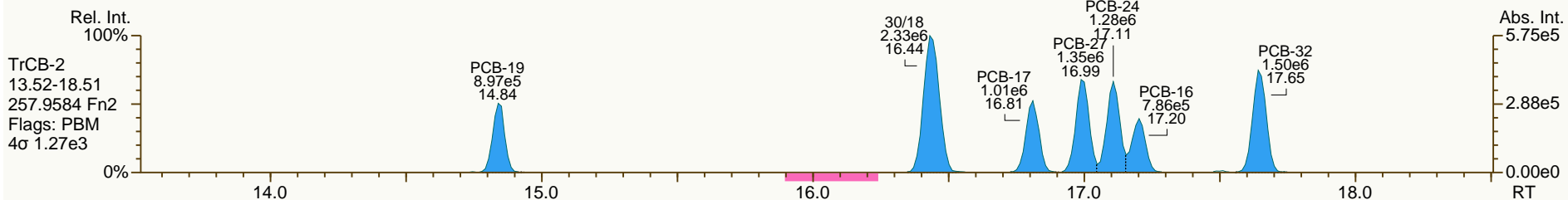
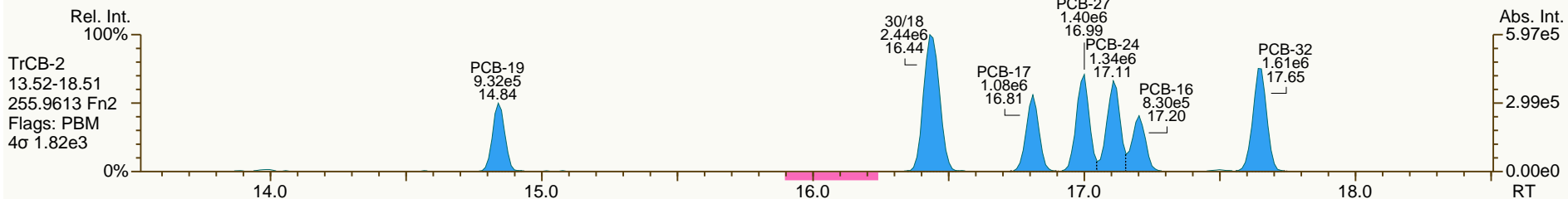
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

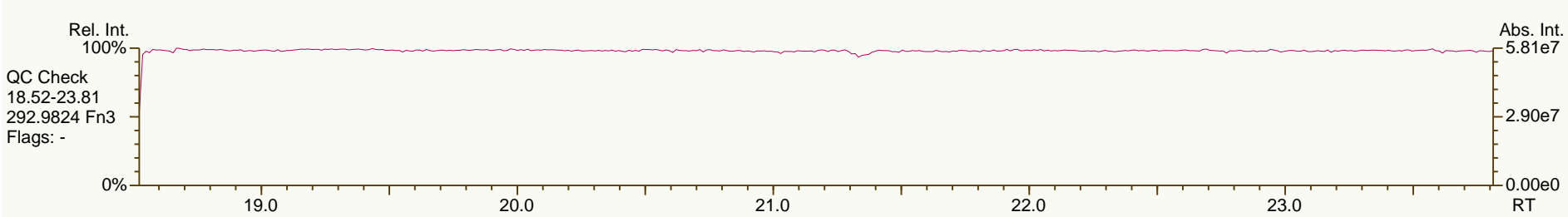
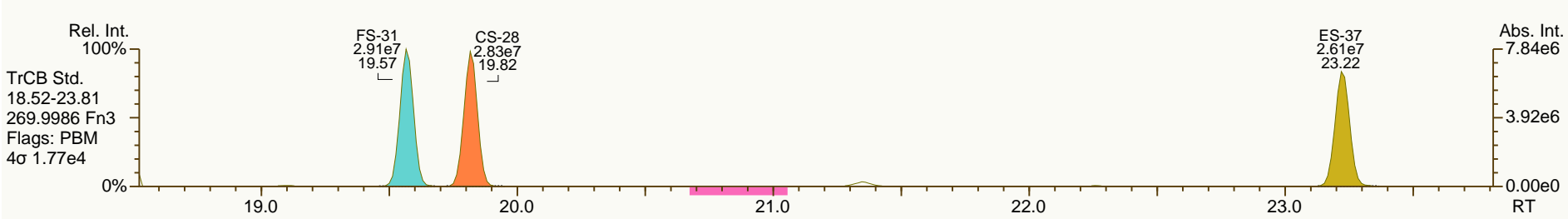
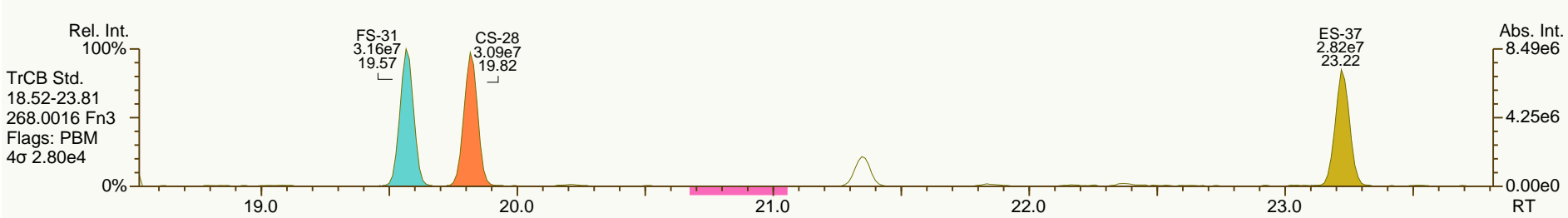
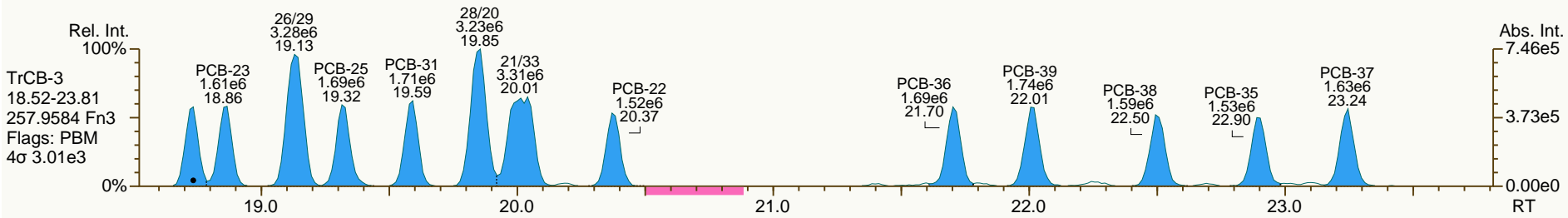
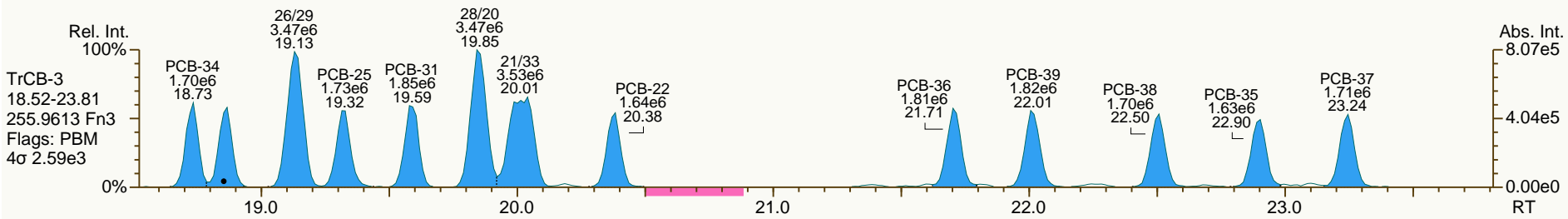
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

Acq: 11-Sep-2013 15:46:45
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

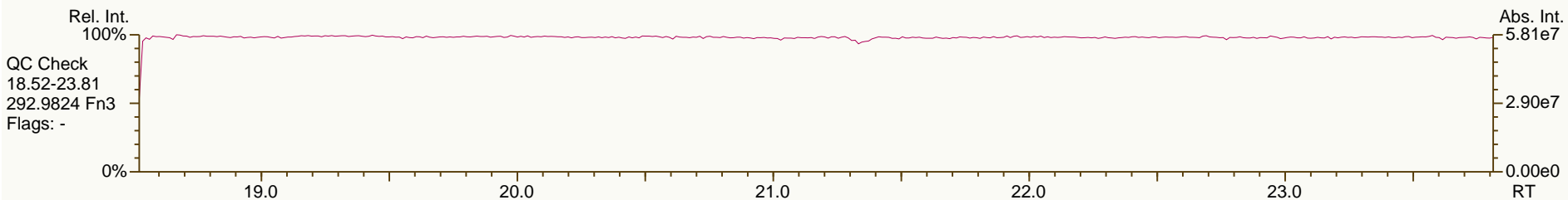
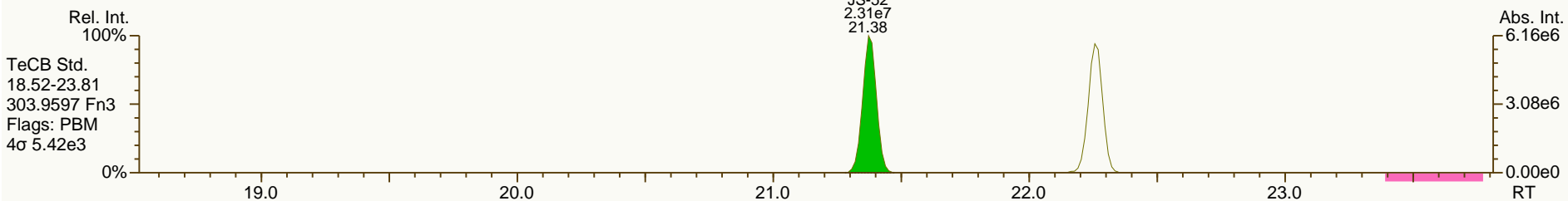
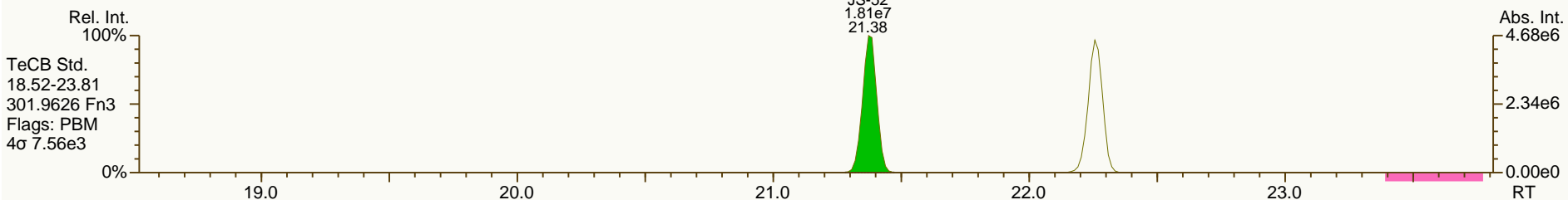
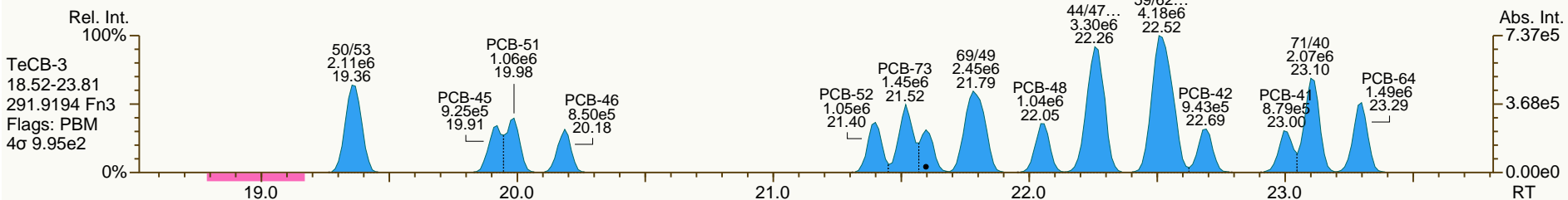
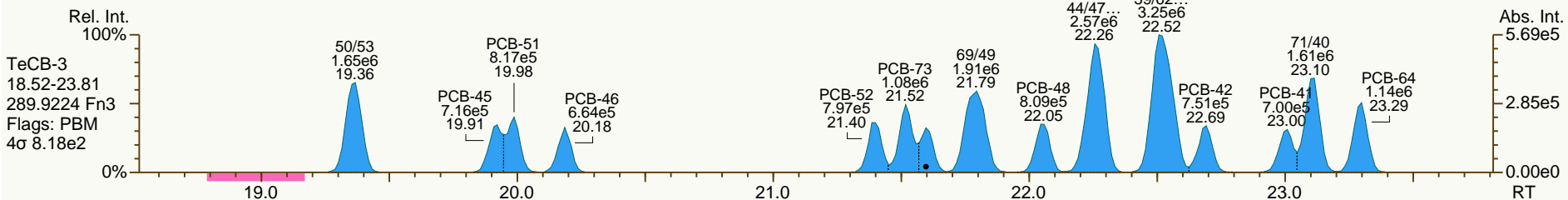
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

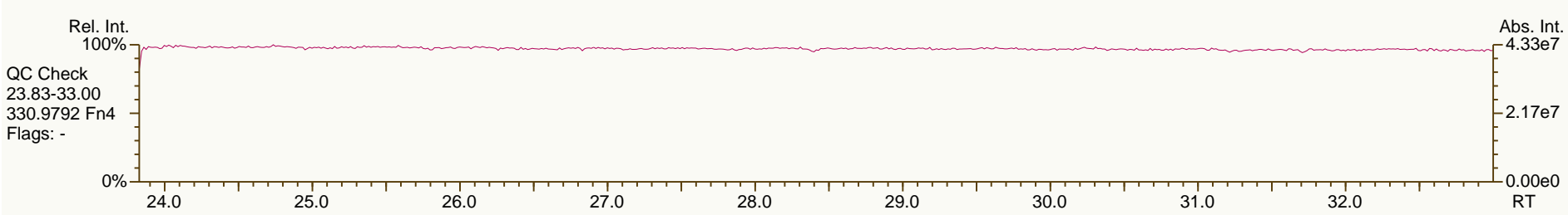
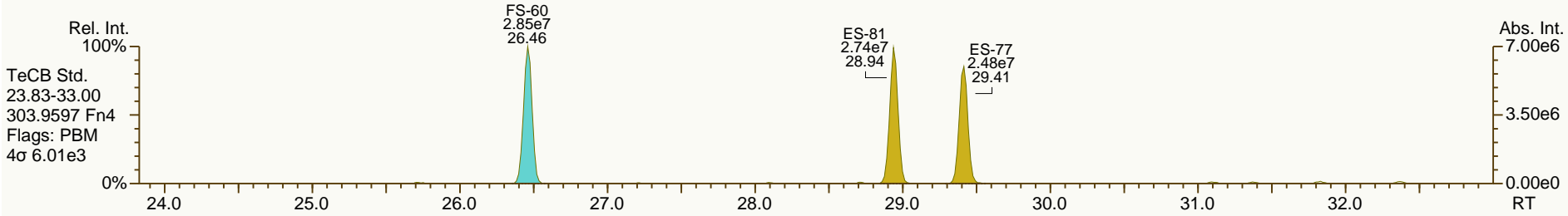
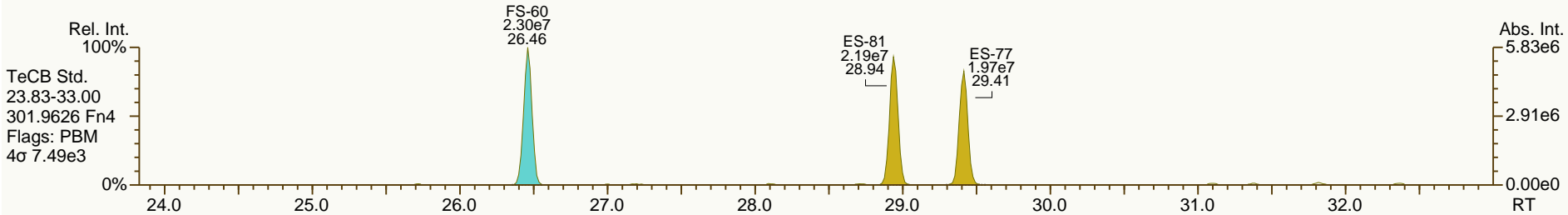
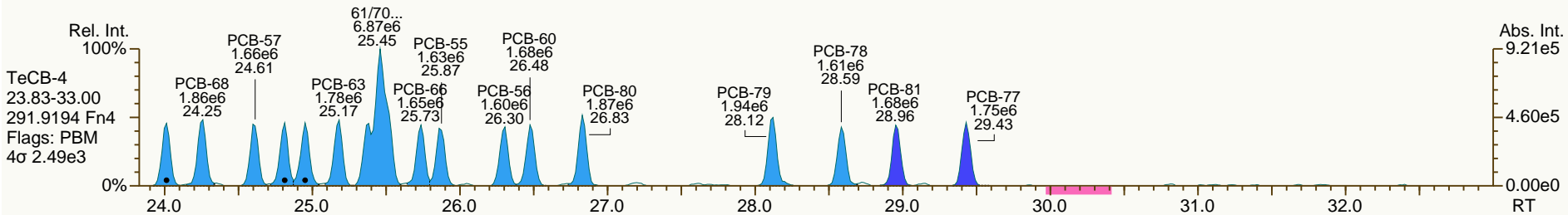
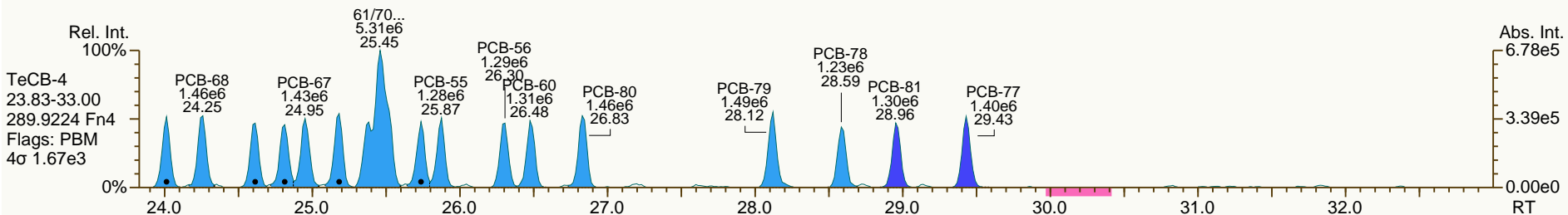
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
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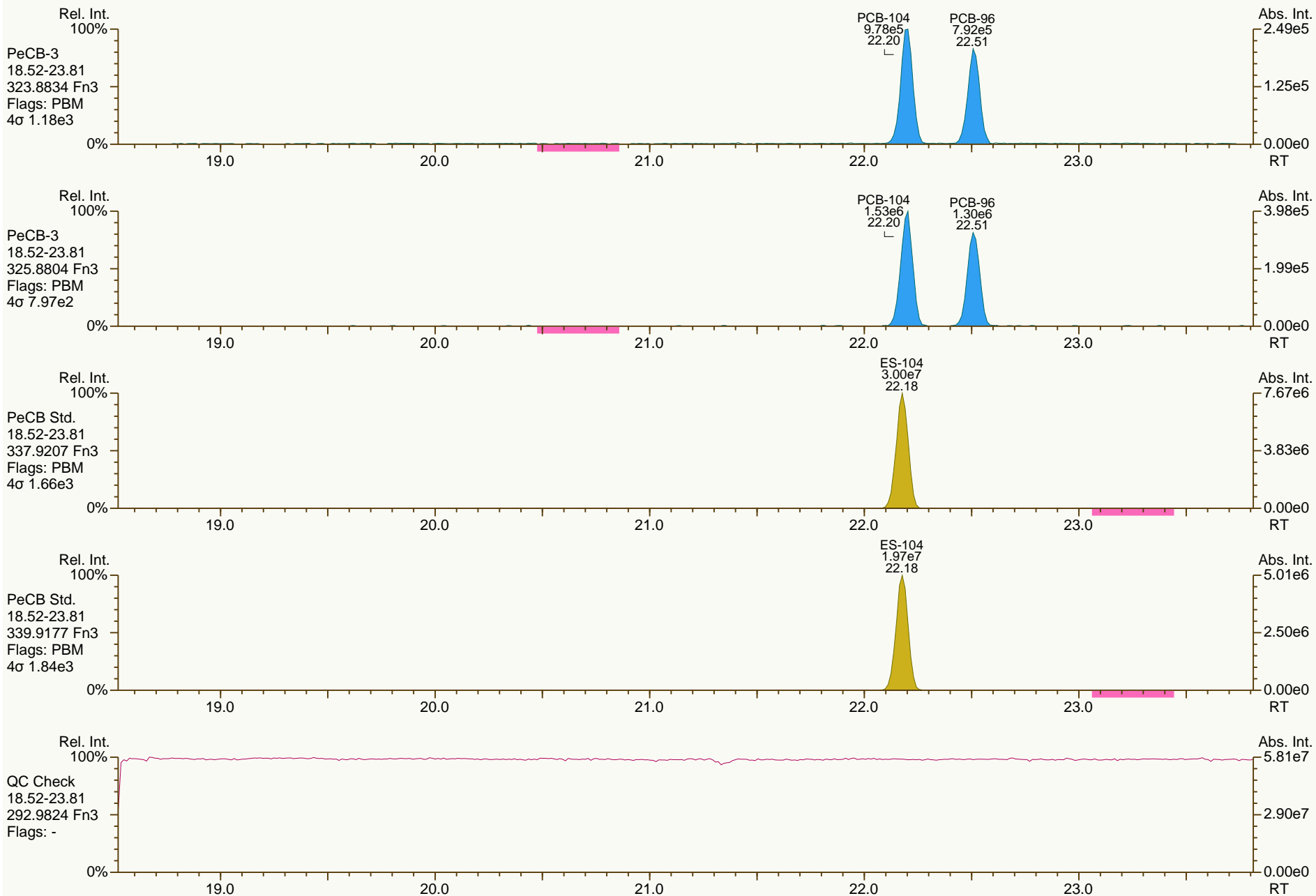
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
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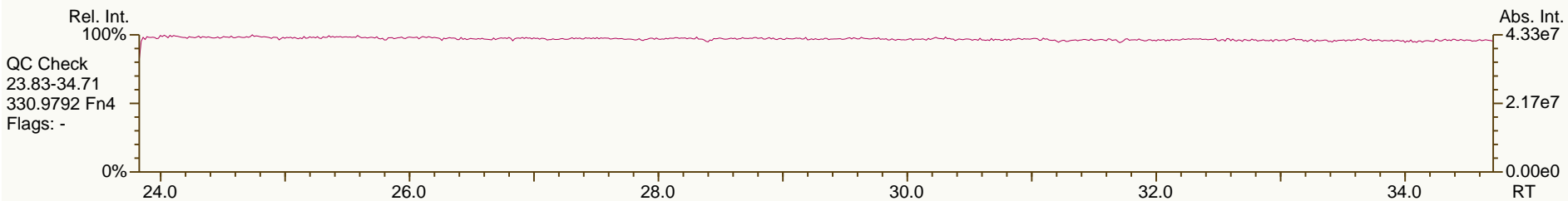
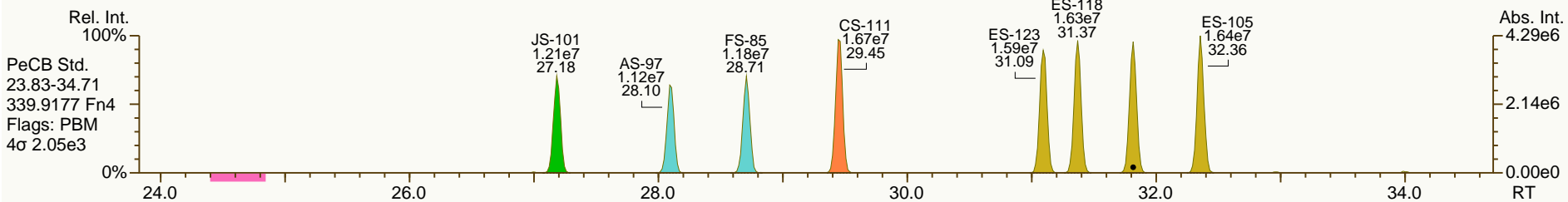
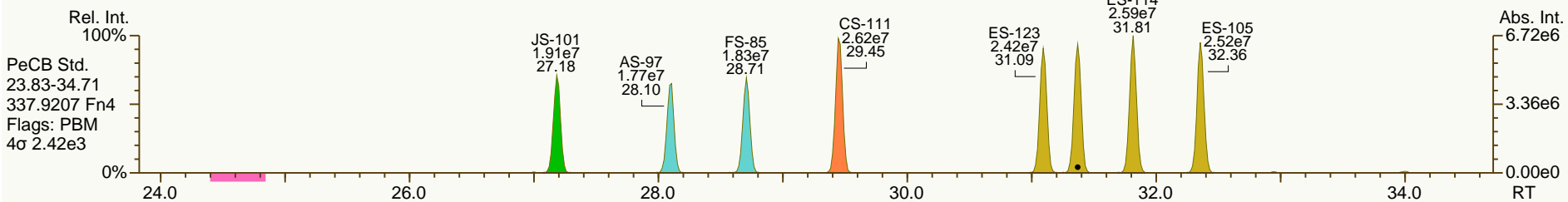
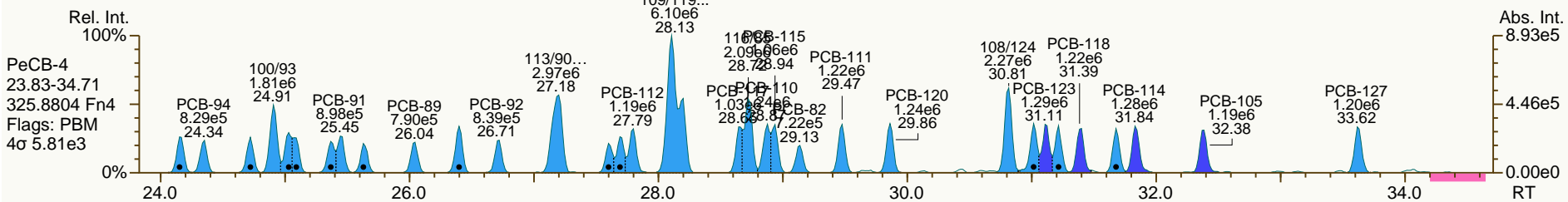
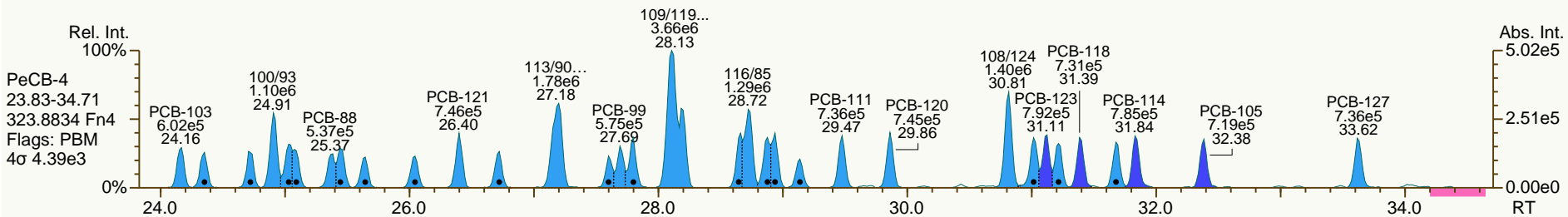
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SGS-AP ID: CS2_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

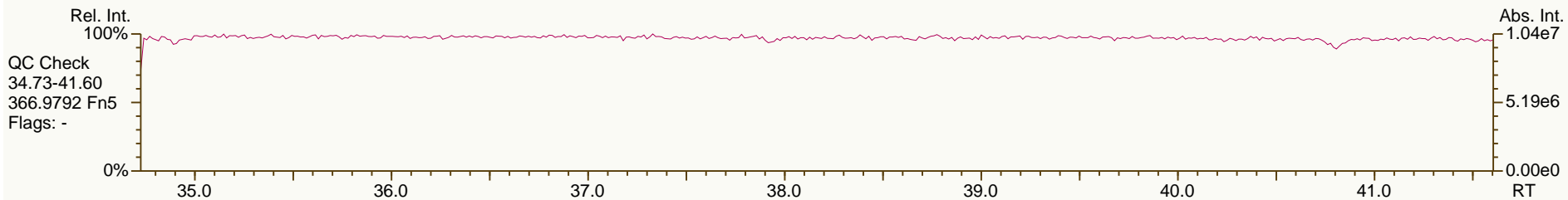
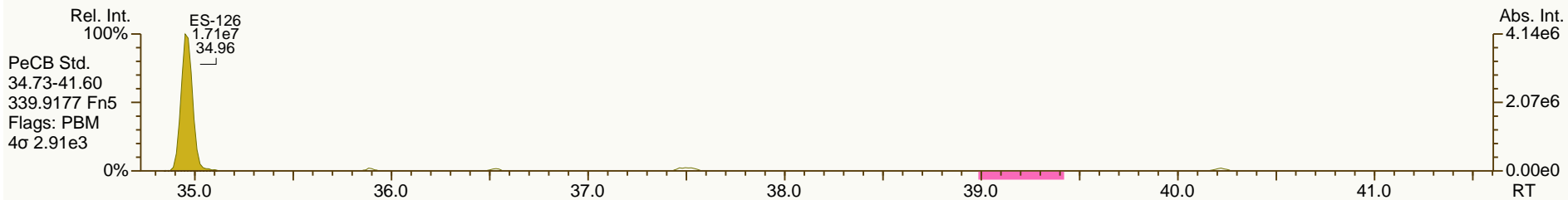
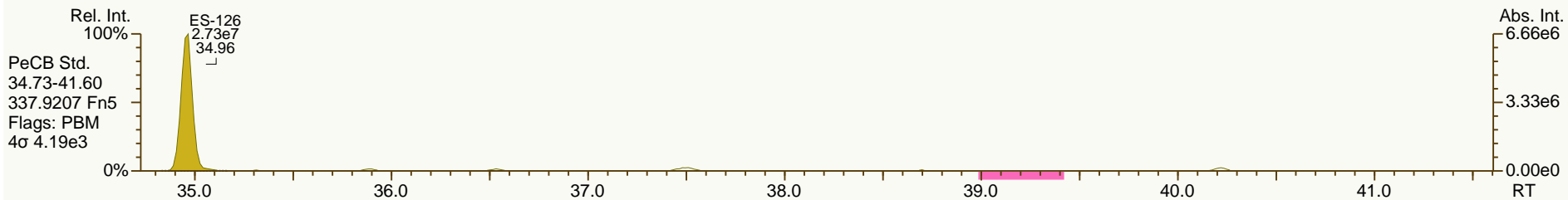
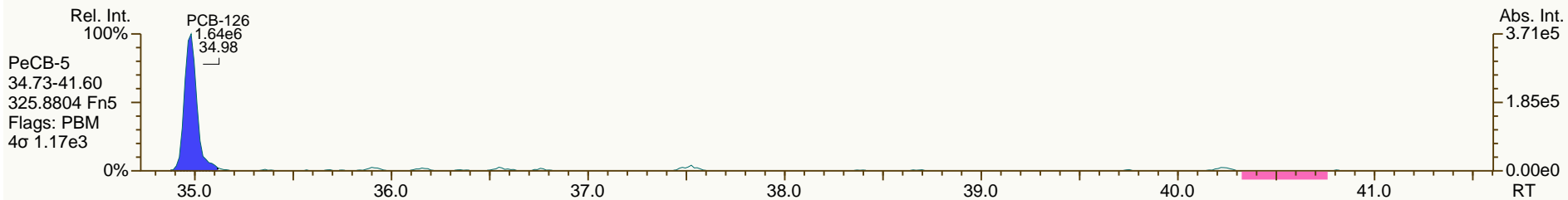
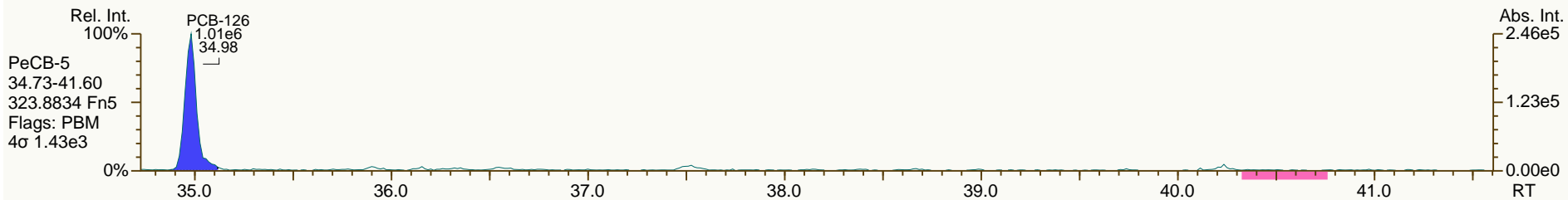
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

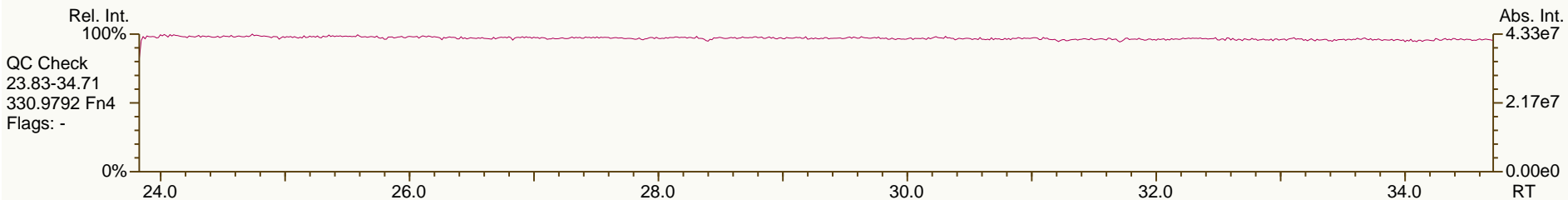
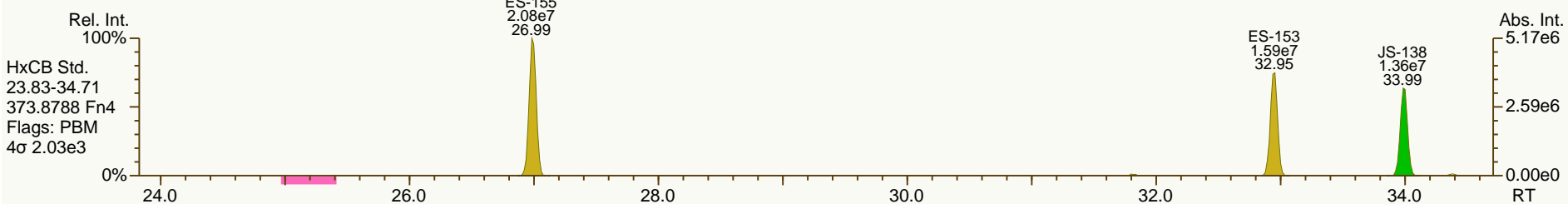
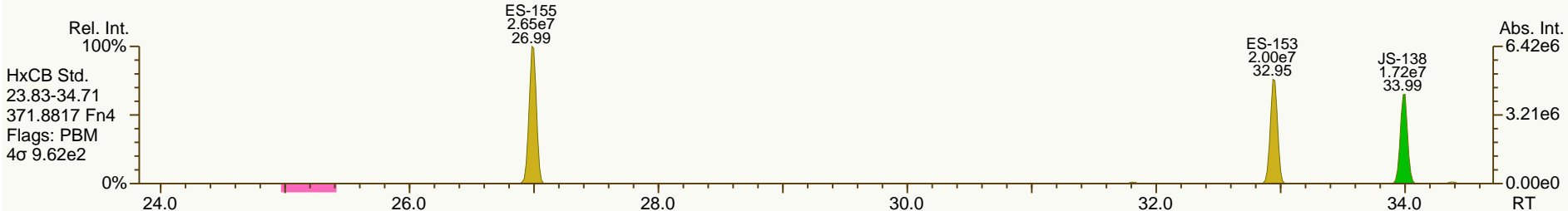
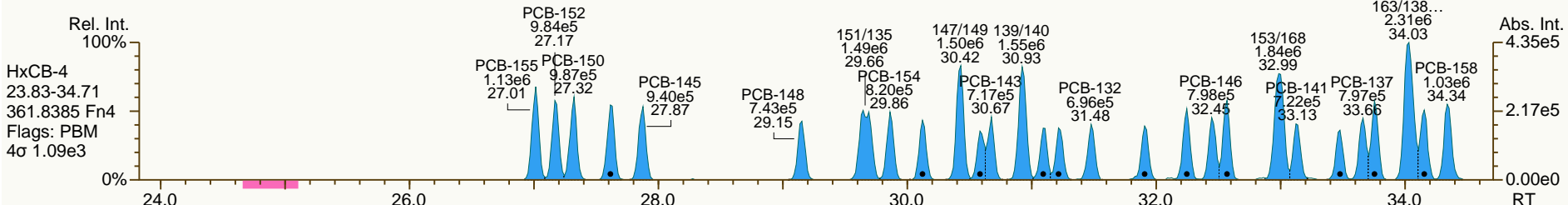
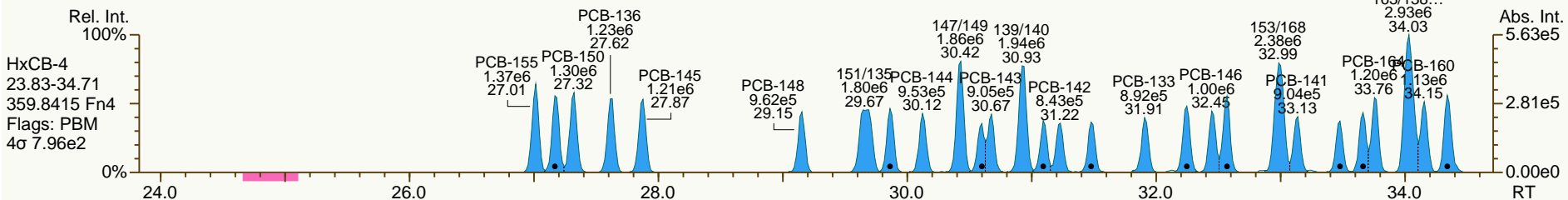
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

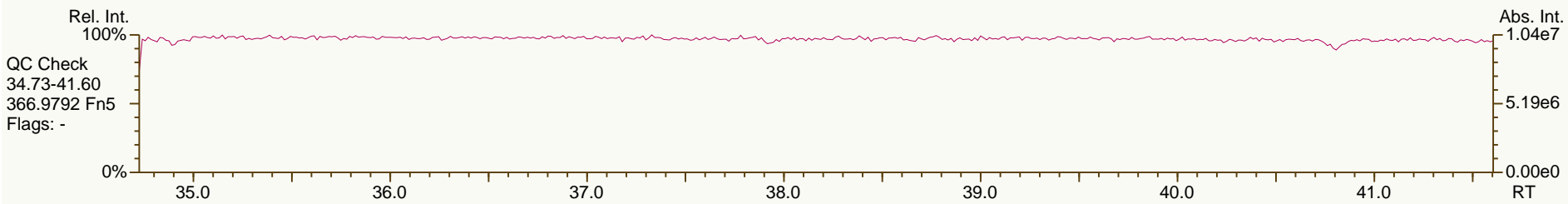
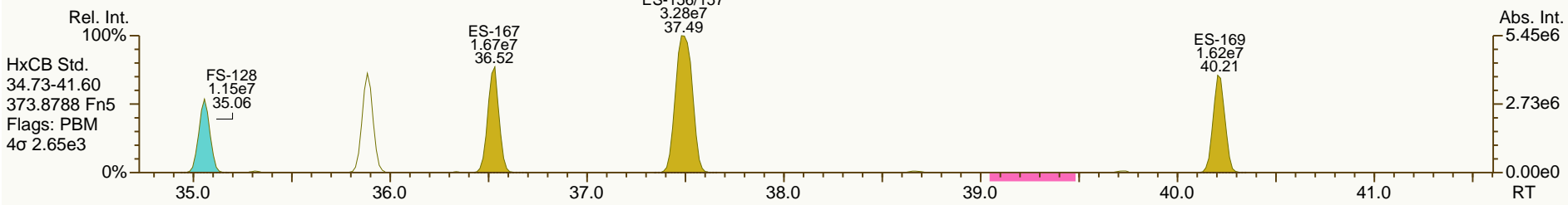
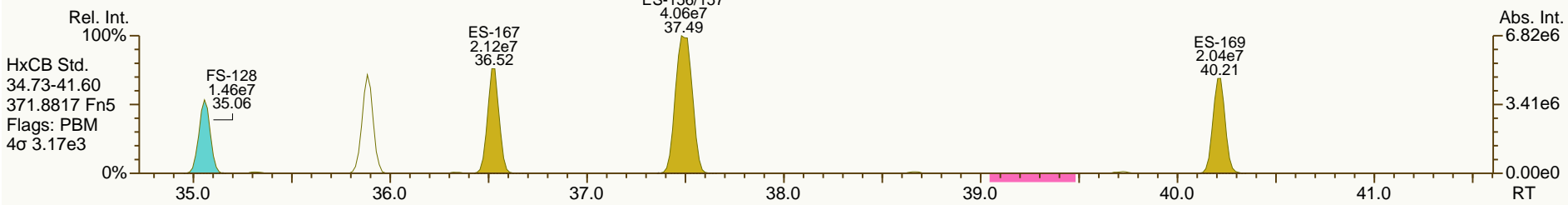
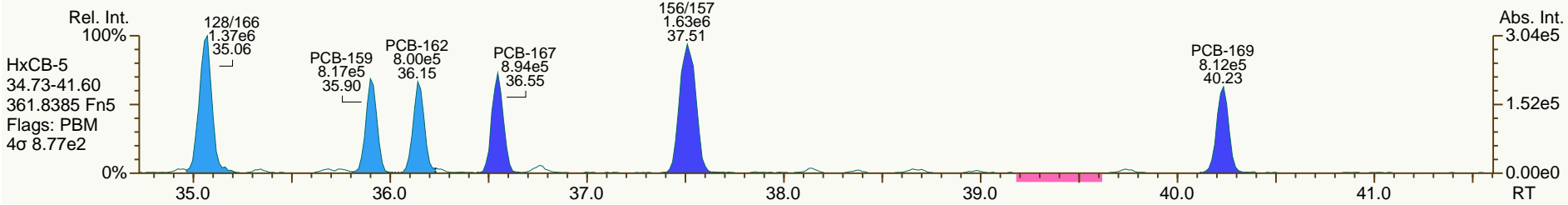
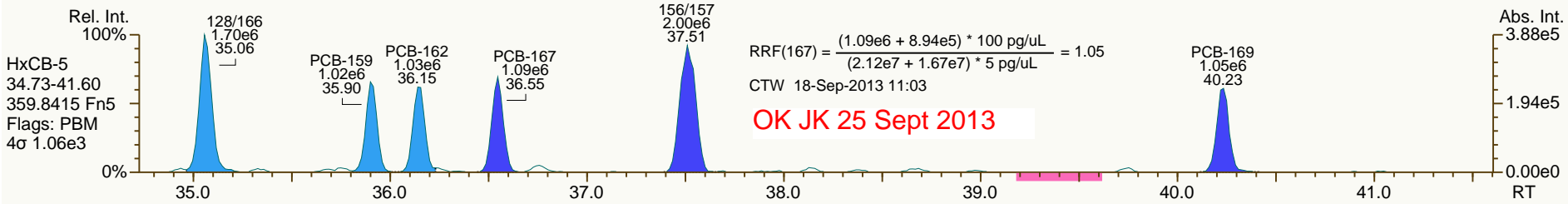
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
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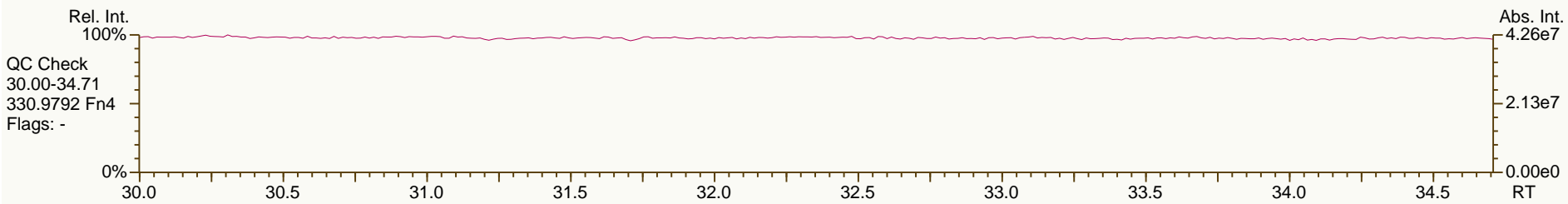
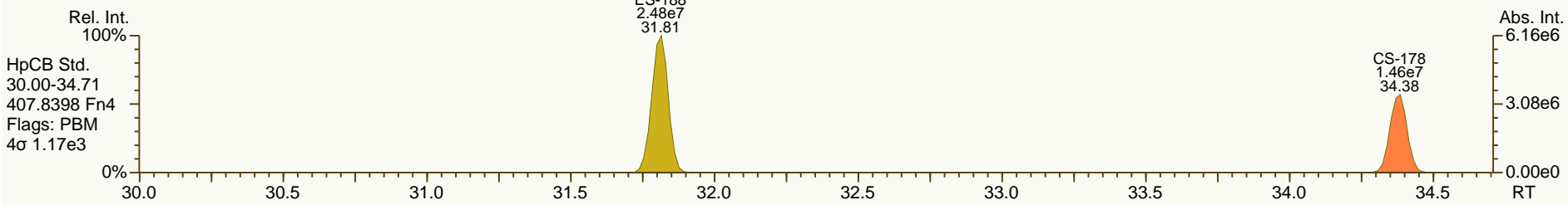
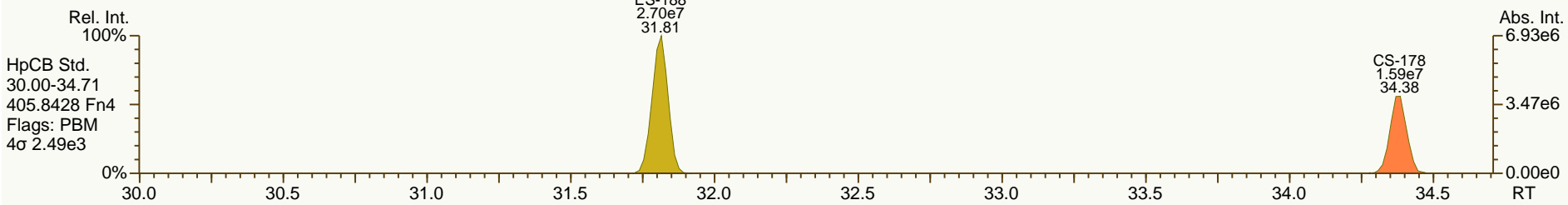
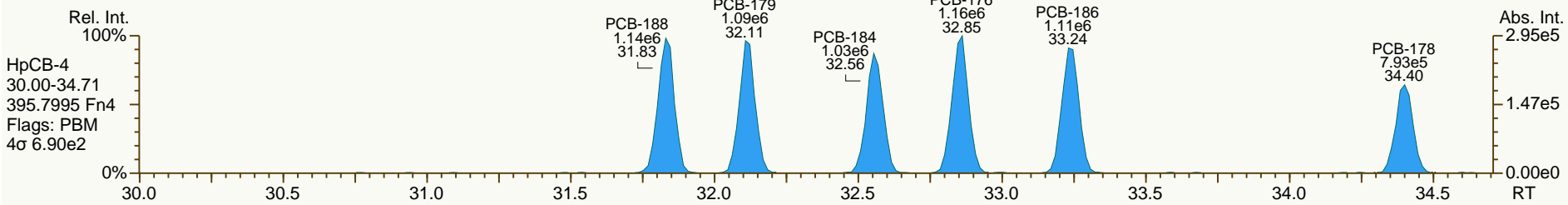
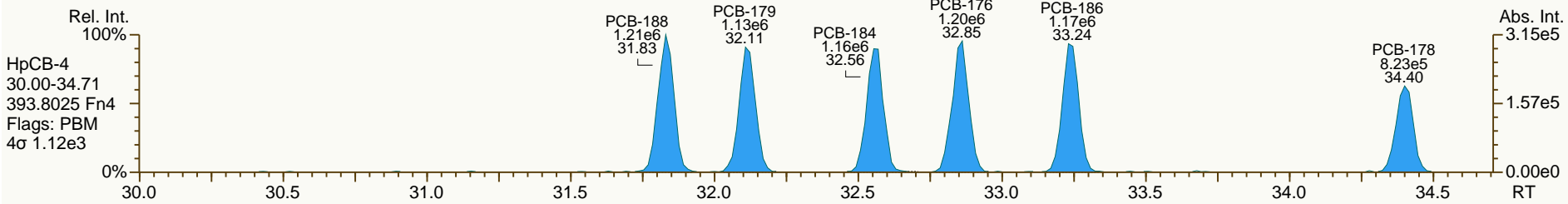
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
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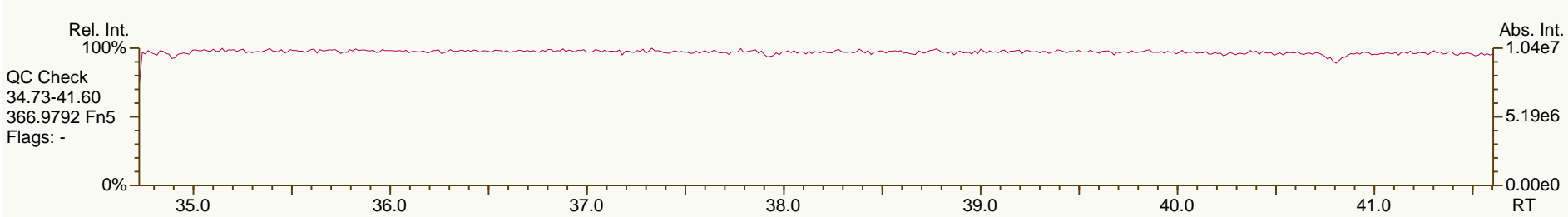
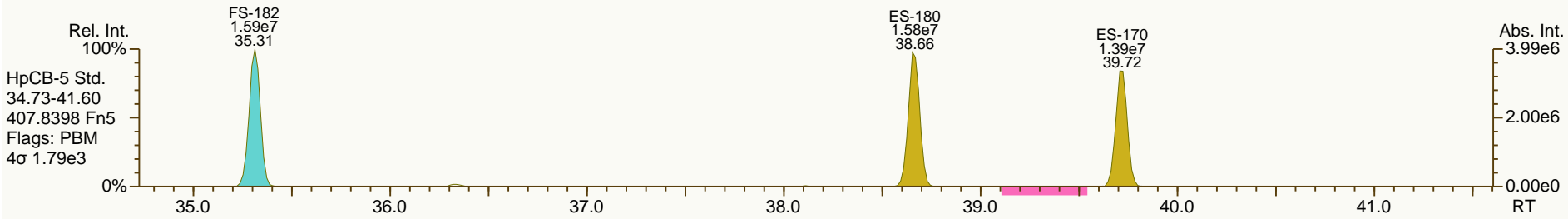
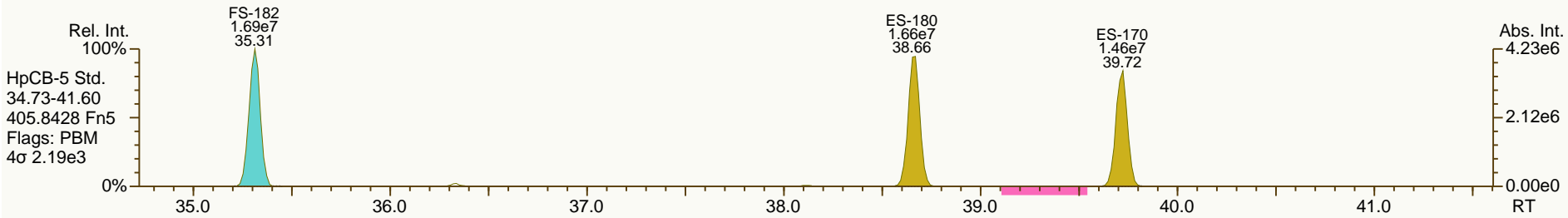
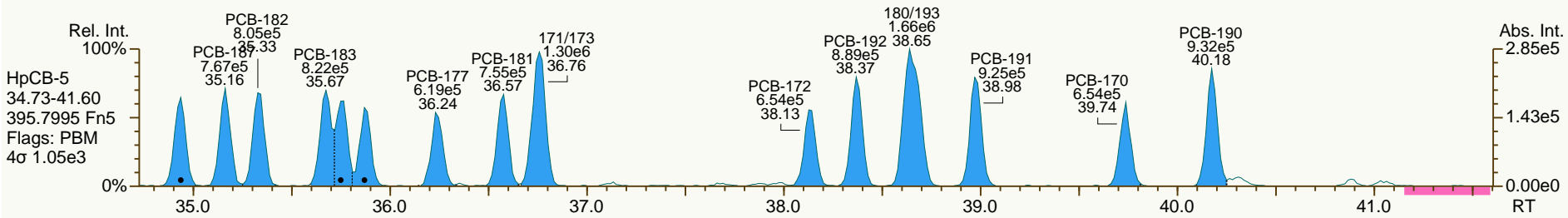
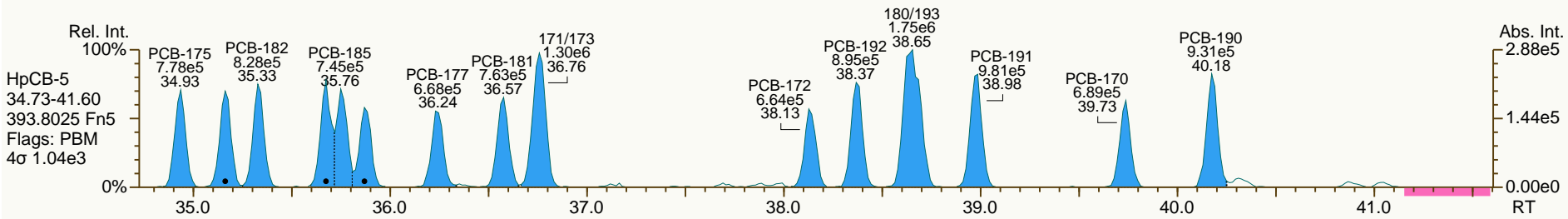
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
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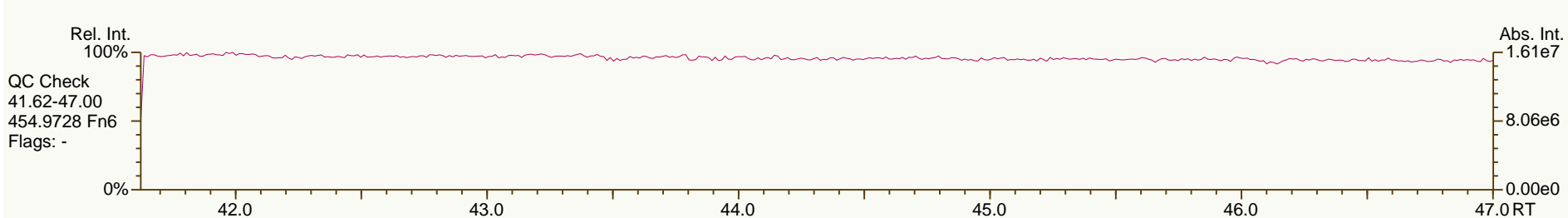
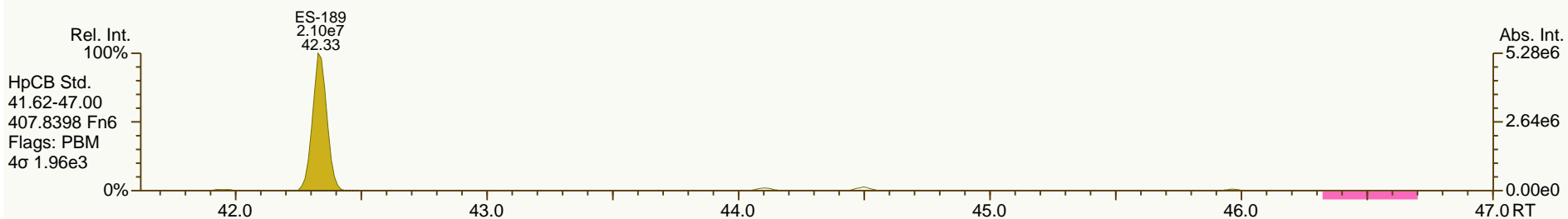
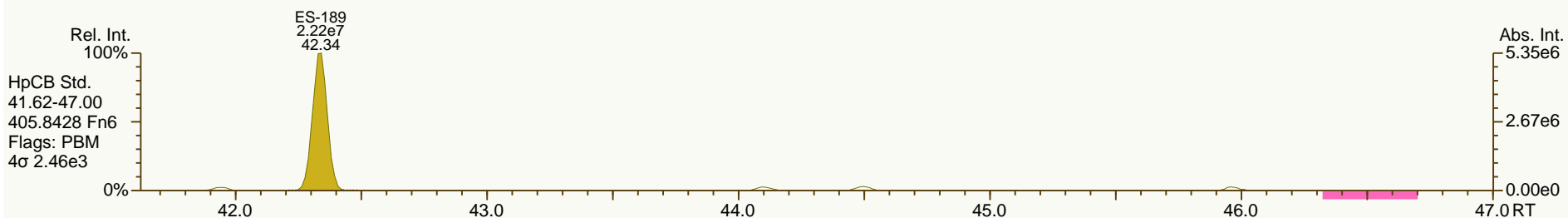
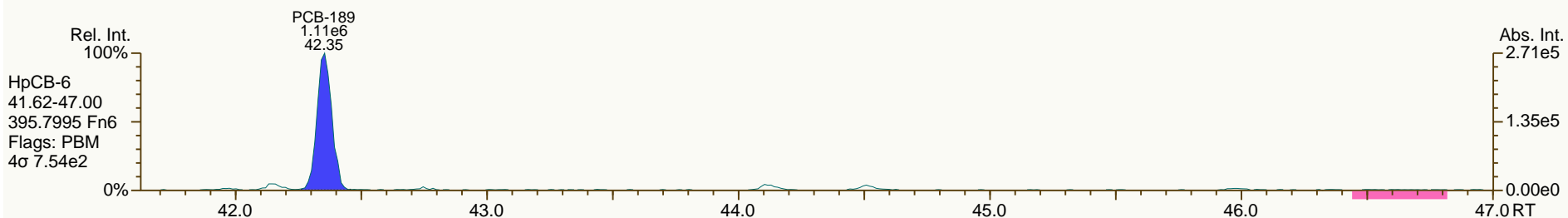
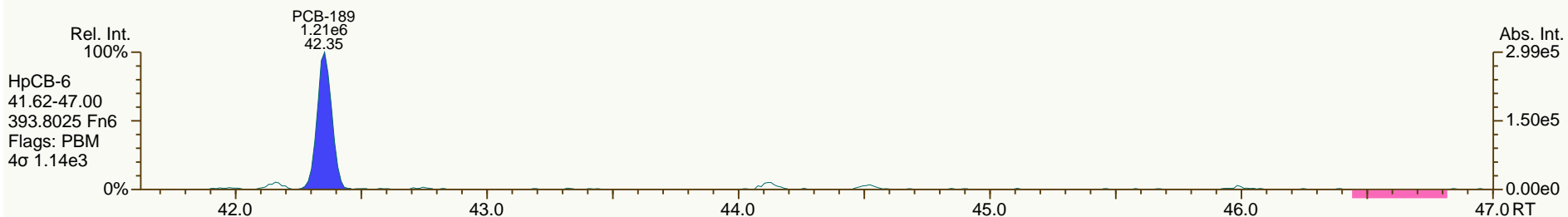
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
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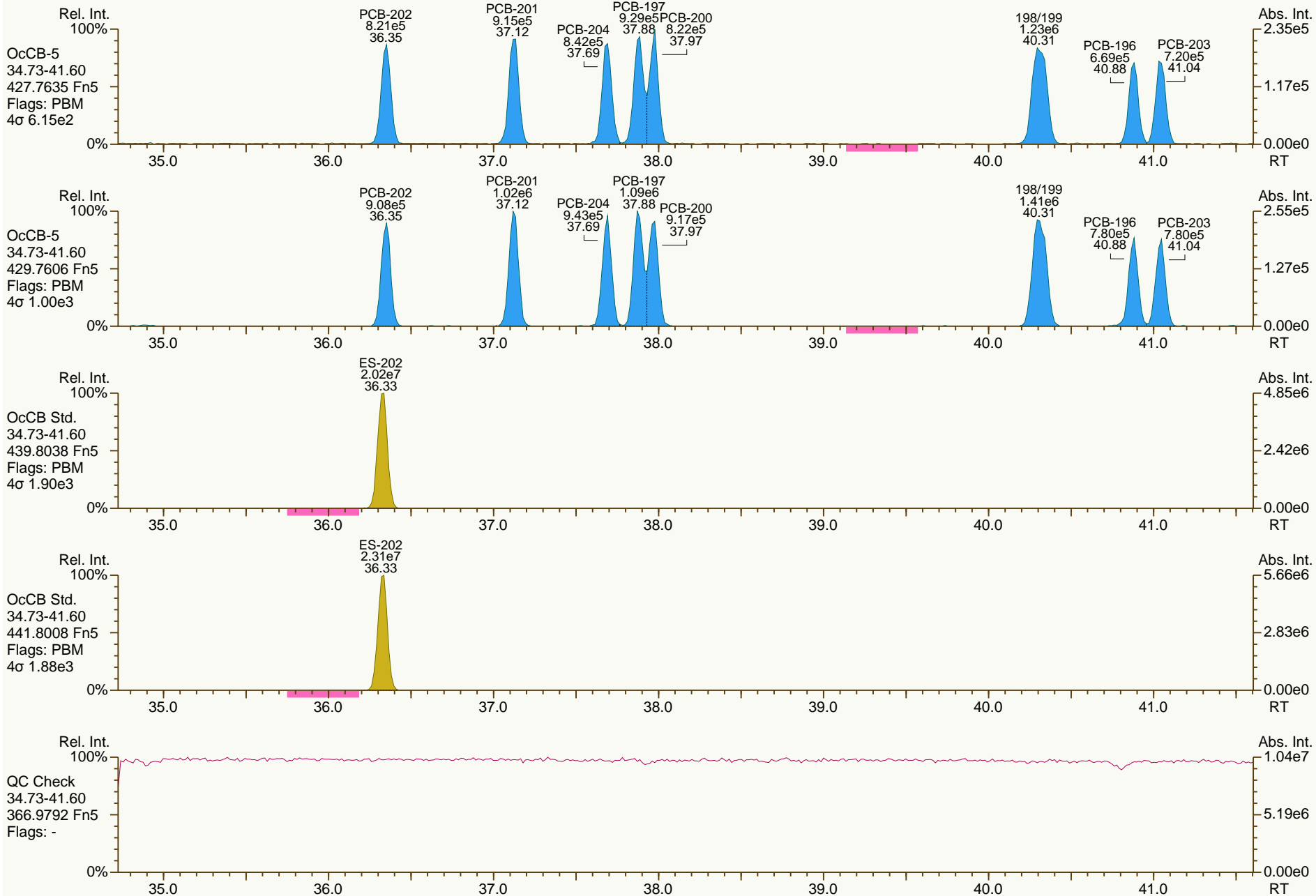
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
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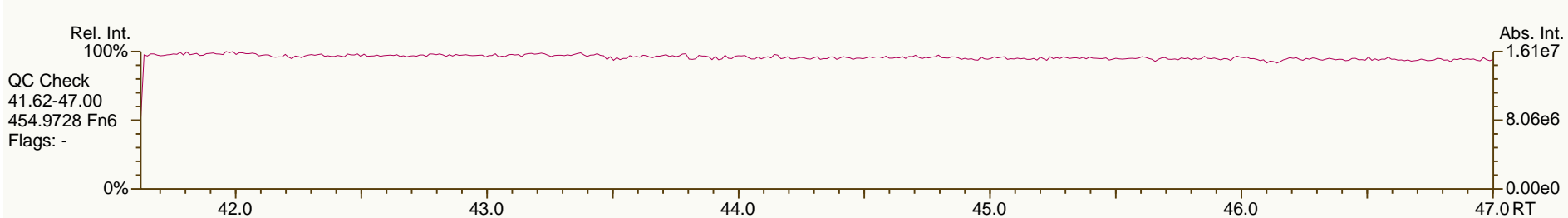
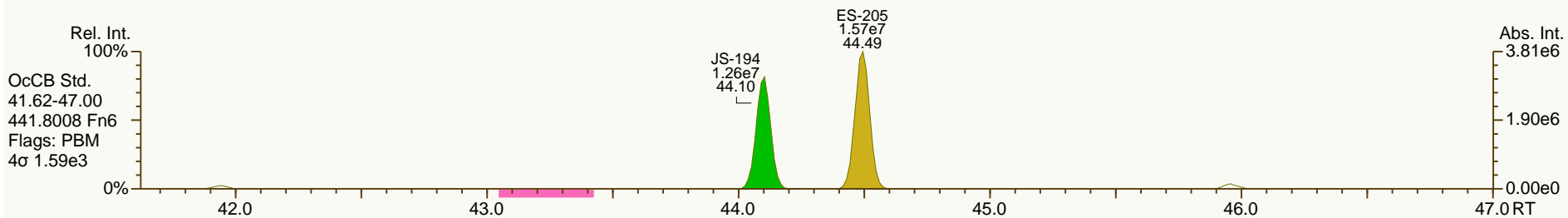
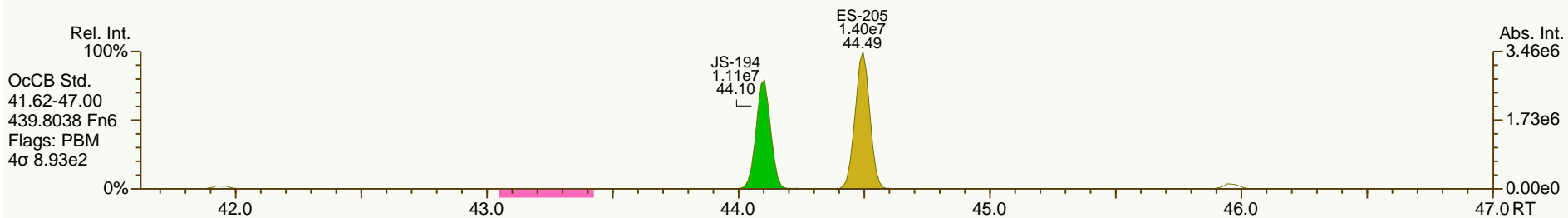
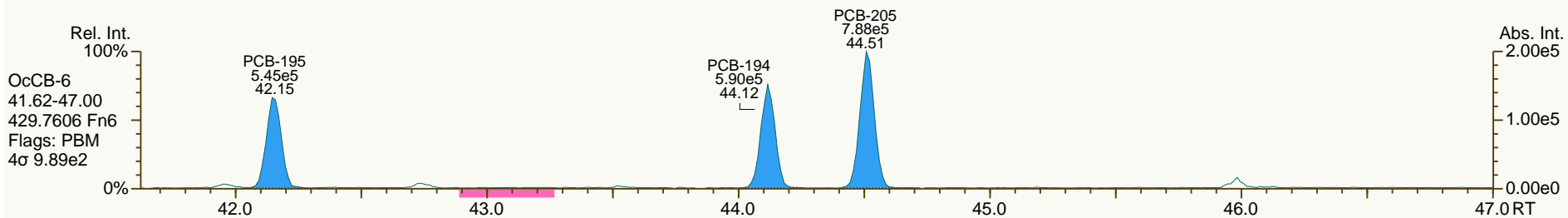
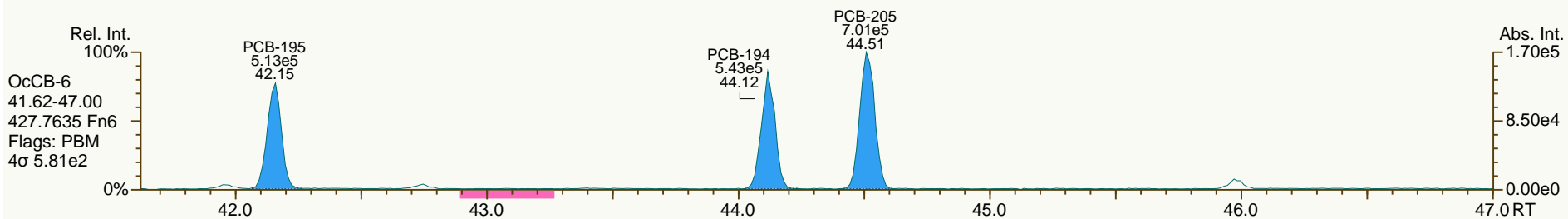
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

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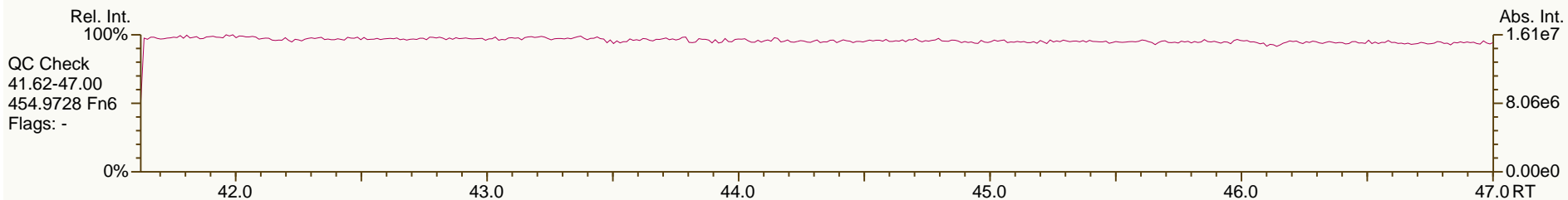
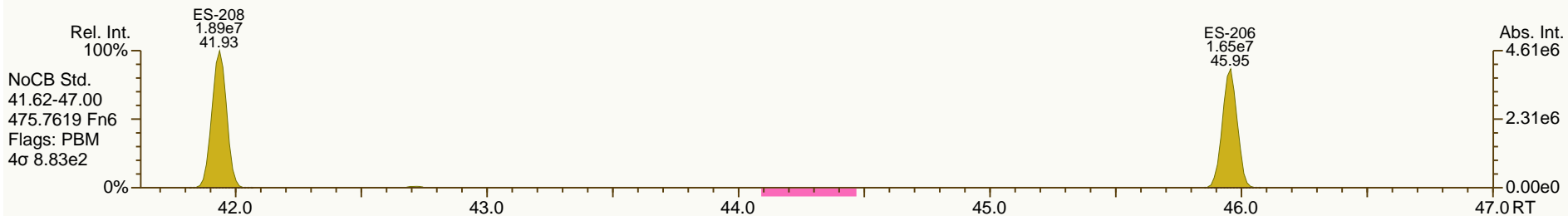
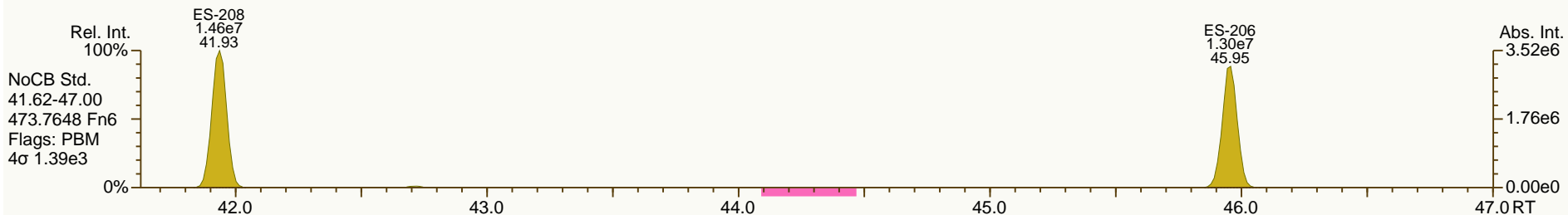
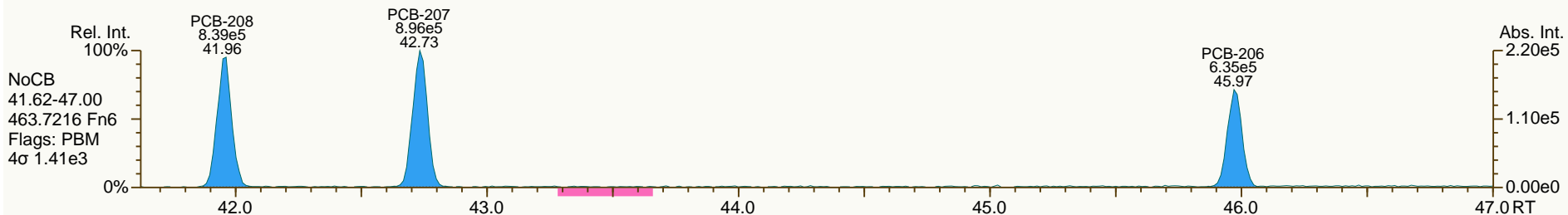
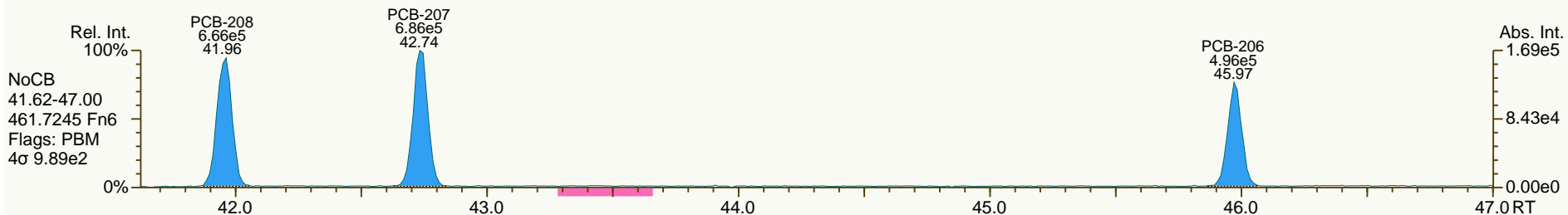
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
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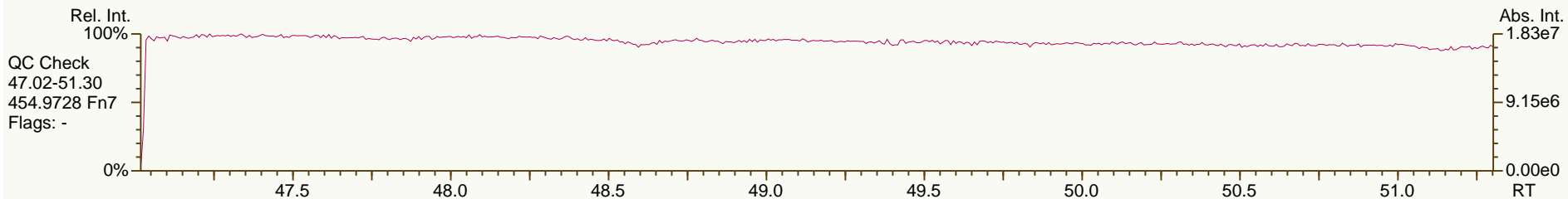
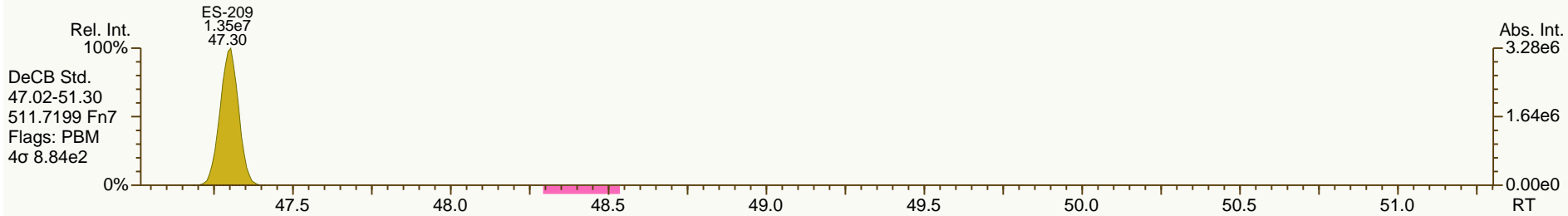
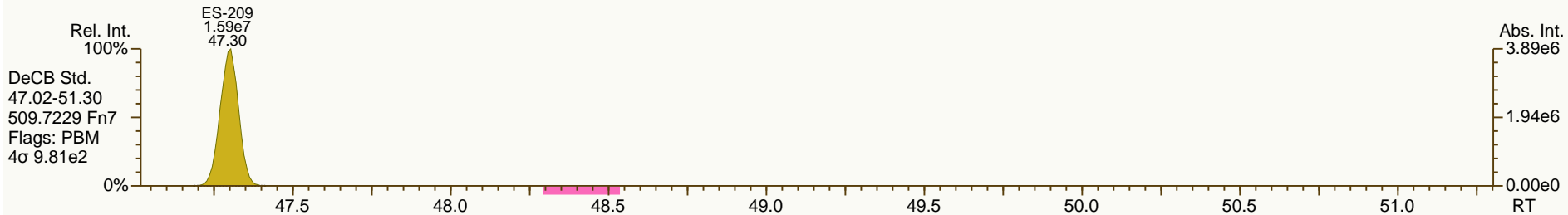
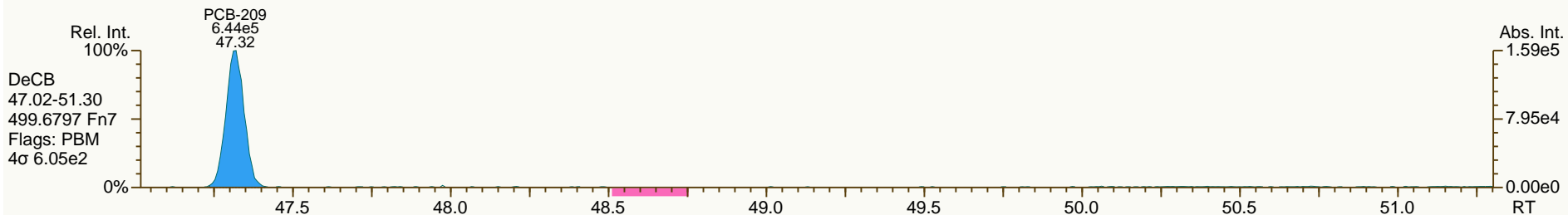
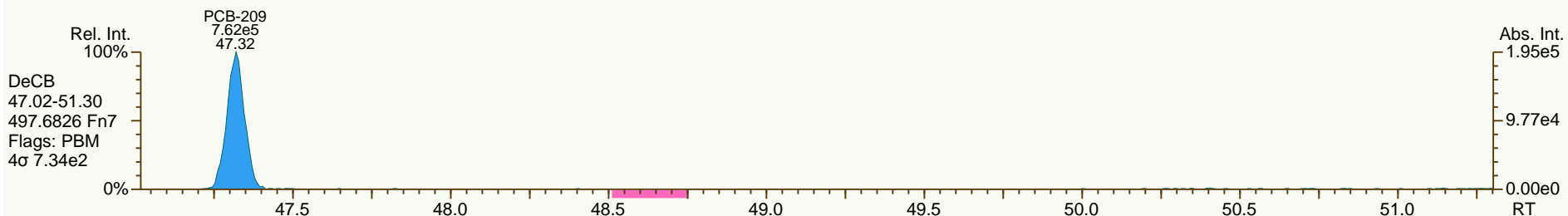
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SGS-AP ID: CS2_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-4
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 52

Acq: 11-Sep-2013 15:46:45
 User: CTW Datafile: 130911S05



PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:36		
Lab ID:	CS3_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 16:57						
Datafile:	130911S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	29.44	3.24E+07	0.78 Y	1.51	1.53	1.1%	
PCB-81 344'5'-TeCB	28.96	3.13E+07	0.78 Y	1.27	1.33	4.7%	
PCB-105 233'44'-PeCB	32.39	2.02E+07	0.63 Y	1.00	1.02	2.9%	
PCB-114 2344'5'-PeCB	31.84	2.15E+07	0.62 Y	1.06	1.08	1.7%	
PCB-118 23'44'5'-PeCB	31.40	2.08E+07	0.63 Y	1.01	1.06	5.1%	
PCB-123 23'44'5'-PeCB	31.12	2.01E+07	0.62 Y	1.06	1.07	1.2%	
PCB-126 33'44'5'-PeCB	34.99	2.69E+07	0.64 Y	1.26	1.27	1.0%	
PCB-156/157 ...-HxCB	37.52	3.82E+07	1.23 Y	1.06	1.09	2.1%	
PCB-167 23'44'55'-HxCB	36.55	2.04E+07	1.28 Y	1.12	1.13	1.3%	
PCB-169 33'44'55'-HxCB	40.24	1.92E+07	1.28 Y	1.09	1.11	1.8%	
PCB-189 233'44'55'-HpCB	42.36	2.43E+07	1.06 Y	1.15	1.19	3.1%	
PCB-209 DeCB	47.32	1.44E+07	1.18 Y	1.03	1.04	0.3%	
ES PCB-1	9.96	7.02E+07	3.19 Y	1.04	1.06	1.4%	
ES PCB-3	11.90	6.64E+07	3.25 Y	0.99	1.00	1.1%	
ES PCB-4	12.12	4.74E+07	1.57 Y	0.71	0.71	0.4%	
ES PCB-15	17.24	7.22E+07	1.64 Y	1.09	1.09	-0.2%	
ES PCB-19	14.83	3.94E+07	1.04 Y	0.59	0.59	0.4%	
ES PCB-37	23.23	5.27E+07	1.08 Y	1.32	1.35	2.4%	
ES PCB-54	17.49	5.17E+07	0.78 Y	1.35	1.32	-2.0%	
ES PCB-77	29.42	4.25E+07	0.80 Y	1.07	1.09	1.8%	
ES PCB-81	28.95	4.70E+07	0.80 Y	1.19	1.20	1.1%	
ES PCB-104	22.18	4.73E+07	1.59 Y	1.62	1.60	-1.1%	
ES PCB-105	32.36	3.94E+07	1.56 Y	1.30	1.34	2.7%	
ES PCB-114	31.82	3.98E+07	1.56 Y	1.32	1.35	2.4%	
ES PCB-118	31.37	3.93E+07	1.58 Y	1.30	1.33	2.1%	
ES PCB-123	31.10	3.75E+07	1.55 Y	1.26	1.27	0.8%	
ES PCB-126	34.97	4.23E+07	1.57 Y	1.41	1.43	1.9%	
ES PCB-153	32.95	3.29E+07	1.28 Y	1.15	1.14	-1.2%	
ES PCB-155	27.00	4.36E+07	1.28 Y	1.53	1.51	-1.4%	
ES PCB-156/157	37.50	7.04E+07	1.25 Y	1.19	1.22	2.7%	
ES PCB-167	36.53	3.60E+07	1.26 Y	1.22	1.25	2.0%	
ES PCB-169	40.22	3.48E+07	1.25 Y	1.18	1.21	1.9%	
ES PCB-170	39.72	2.71E+07	1.05 Y	1.22	1.23	0.6%	
ES PCB-180	38.67	3.10E+07	1.08 Y	1.41	1.41	-0.2%	
ES PCB-188	31.82	4.87E+07	1.07 Y	1.71	1.69	-1.1%	
ES PCB-189	42.34	4.08E+07	1.07 Y	1.84	1.85	0.7%	
ES PCB-202	36.33	4.06E+07	0.86 Y	1.42	1.41	-0.8%	
ES PCB-205	44.50	2.83E+07	0.90 Y	1.25	1.28	2.2%	
ES PCB-206	45.96	2.75E+07	0.77 Y	1.24	1.25	0.9%	
ES PCB-208	41.94	3.19E+07	0.78 Y	1.42	1.45	2.0%	
ES PCB-209	47.30	2.78E+07	1.16 Y	1.23	1.26	2.1%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:36		
Lab ID:	CS3_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 16:57						
Datafile:	130911S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	19.83	5.48E+07	1.09 Y	1.06	1.04	-2.1%	
SS PCB-111	29.46	3.96E+07	1.54 Y	1.06	1.05	-0.6%	
SS PCB-178	34.38	2.87E+07	1.07 Y	0.58	0.59	1.3%	
CS PCB-28	19.83	5.48E+07	1.09 Y	1.40	1.40	0.2%	
CS PCB-111	29.46	3.96E+07	1.54 Y	1.34	1.34	0.2%	
CS PCB-178	34.38	2.87E+07	1.07 Y	0.99	1.00	0.2%	
JS PCB-9	13.85	6.64E+07	1.62 Y	-	-	-	
JS PCB-52	21.38	3.91E+07	0.77 Y	-	-	-	
JS PCB-101	27.19	2.95E+07	1.57 Y	-	-	-	
JS PCB-138	34.00	2.89E+07	1.30 Y	-	-	-	
JS PCB-194	44.10	2.20E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	9.98	4.19E+07	3.17 Y	1.20	1.19	-0.2%	
PCB-3 4-MoCB	11.91	4.17E+07	3.19 Y	1.24	1.26	1.5%	
PCB-4 22'-DiCB	12.13	2.29E+07	1.54 Y	0.97	0.97	-0.4%	
PCB-15 44'-DiCB	17.25	4.40E+07	1.60 Y	1.23	1.22	-0.8%	
PCB-19 22'6'-TrCB	14.85	1.91E+07	1.05 Y	0.97	0.97	0.3%	
PCB-37 344'-TrCB	23.25	3.46E+07	1.08 Y	1.28	1.31	2.3%	
PCB-54 22'66'-TeCB	17.50	2.67E+07	0.78 Y	1.00	1.03	3.3%	
PCB-104 22'466'-PeCB	22.20	2.54E+07	0.63 Y	1.06	1.07	1.6%	
PCB-153/168 ...-HxCB	33.00	4.28E+07	1.25 Y	1.26	1.30	3.5%	
PCB-155 22'44'66'-HxCB	27.02	2.56E+07	1.26 Y	1.12	1.17	4.4%	
PCB-170 22'33'44'5'-HpCB	39.74	1.40E+07	1.05 Y	1.01	1.03	2.4%	
PCB-180/193 ...-HpCB	38.66	3.50E+07	1.03 Y	1.11	1.13	1.8%	
PCB-188 22'34'566'-HpCB	31.84	2.44E+07	1.05 Y	0.97	1.00	3.4%	
PCB-202 22'33'55'66'-OcCB	36.35	1.76E+07	0.90 Y	0.83	0.87	4.6%	
PCB-205 233'44'55'6'-OcCB	44.52	1.56E+07	0.91 Y	1.08	1.10	2.2%	
PCB-208 22'33'455'66'-NoCB	41.96	1.57E+07	0.79 Y	0.99	0.99	-0.7%	
PCB-206 22'33'44'55'6'-NoCB	45.98	1.15E+07	0.77 Y	0.83	0.84	0.7%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS3_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 16:57						
Datafile:	130911S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	9.98	4.19E+07	3.17 Y	1.20	1.19	-0.2%	
PCB-2 3-MoCB	11.75	4.21E+07	3.21 Y	1.25	1.27	1.7%	
PCB-3 4-MoCB	11.91	4.17E+07	3.19 Y	1.24	1.26	1.5%	
PCB-4 22'-DiCB	12.13	2.29E+07	1.54 Y	0.97	0.97	-0.4%	
PCB-10 26'-DiCB	12.28	3.55E+07	1.54 Y	1.51	1.50	-0.8%	
PCB-9 25'-DiCB	13.87	3.86E+07	1.61 Y	1.06	1.07	0.9%	
PCB-7 24'-DiCB	14.01	4.47E+07	1.54 Y	1.23	1.24	0.5%	
PCB-6 23'-DiCB	14.22	4.15E+07	1.55 Y	1.14	1.15	1.3%	
PCB-5 23'-DiCB	14.48	4.19E+07	1.56 Y	1.15	1.16	1.1%	
PCB-8 24'-DiCB	14.59	4.26E+07	1.57 Y	1.18	1.18	0.5%	
PCB-14 35'-DiCB	16.00	4.88E+07	1.59 Y	1.31	1.35	3.1%	
PCB-11 33'-DiCB	16.72	4.20E+07	1.55 Y	1.17	1.16	-0.6%	
PCB-13/12 34'/34'-DiCB	16.98	8.50E+07	1.55 Y	1.17	1.18	1.1%	
PCB-15 44'-DiCB	17.25	4.40E+07	1.60 Y	1.23	1.22	-0.8%	
PCB-19 22'6'-TrCB	14.85	1.91E+07	1.05 Y	0.97	0.97	0.3%	
PCB-30/18 246/22'5'-TrCB	16.45	4.97E+07	1.04 Y	1.23	1.26	2.2%	
PCB-17 22'4'-TrCB	16.82	2.12E+07	1.04 Y	1.06	1.08	2.2%	
PCB-27 23'6'-TrCB	17.00	2.91E+07	1.04 Y	1.44	1.48	2.5%	
PCB-24 236'-TrCB	17.12	2.79E+07	1.03 Y	1.37	1.42	3.7%	
PCB-16 22'3'-TrCB	17.21	1.63E+07	1.03 Y	0.80	0.83	2.9%	
PCB-32 24'6'-TrCB	17.65	3.17E+07	1.04 Y	1.59	1.61	1.4%	
PCB-34 23'5'-TrCB	18.74	3.41E+07	1.07 Y	1.26	1.29	2.3%	
PCB-23 235'-TrCB	18.87	3.51E+07	1.07 Y	1.31	1.33	1.8%	
PCB-26/29 23'5'/245'-TrCB	19.14	7.10E+07	1.07 Y	1.33	1.35	1.0%	
PCB-25 23'4'-TrCB	19.33	3.60E+07	1.06 Y	1.33	1.36	2.5%	
PCB-31 24'5'-TrCB	19.59	3.69E+07	1.07 Y	1.39	1.40	1.0%	
PCB-28/20 244'/233'-TrCB	19.86	6.94E+07	1.06 Y	1.30	1.32	1.4%	
PCB-21/33 234/23'4'-TrCB	20.02	7.16E+07	1.07 Y	1.34	1.36	1.2%	
PCB-22 234'-TrCB	20.38	3.31E+07	1.07 Y	1.22	1.25	3.1%	
PCB-36 33'5'-TrCB	21.71	3.64E+07	1.07 Y	1.35	1.38	2.5%	
PCB-39 34'5'-TrCB	22.02	3.75E+07	1.08 Y	1.40	1.42	2.0%	
PCB-38 345'-TrCB	22.51	3.39E+07	1.08 Y	1.25	1.29	3.0%	
PCB-35 33'4'-TrCB	22.90	3.32E+07	1.07 Y	1.23	1.26	2.3%	
PCB-37 344'-TrCB	23.25	3.46E+07	1.08 Y	1.28	1.31	2.3%	
PCB-54 22'66'-TeCB	17.50	2.67E+07	0.78 Y	1.00	1.03	3.3%	
PCB-50/53 22'46'/22'56'-TeCB	19.37	3.91E+07	0.77 Y	0.82	0.83	1.8%	
PCB-45 22'36'-TeCB	19.93	1.83E+07	0.77 Y	0.73	0.78	6.6%	
PCB-51 22'46'-TeCB	19.99	1.82E+07	0.78 Y	0.79	0.77	-2.7%	
PCB-46 22'36'-TeCB	20.19	1.58E+07	0.77 Y	0.66	0.67	1.9%	
PCB-52 22'55'-TeCB	21.41	1.91E+07	0.77 Y	0.79	0.81	2.8%	
PCB-73 23'5'6'-TeCB	21.53	2.49E+07	0.77 Y	1.06	1.06	-0.1%	
PCB-43 22'35'-TeCB	21.61	1.57E+07	0.77 Y	0.64	0.67	4.3%	
PCB-69/49 23'46'/22'45'-TeCB	21.80	4.56E+07	0.77 Y	0.95	0.97	2.3%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS3_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 16:57						
Datafile:	130911S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.06	1.90E+07	0.77 Y	0.79	0.81	2.9%	
PCB-44/47/65 ...-TeCB	22.27	6.06E+07	0.78 Y	0.84	0.86	2.2%	
PCB-59/62/75 ...-TeCB	22.53	7.74E+07	0.77 Y	1.07	1.10	2.2%	
PCB-42 22'34'-TeCB	22.69	1.74E+07	0.77 Y	0.72	0.74	2.9%	
PCB-41 22'34'-TeCB	23.01	1.53E+07	0.77 Y	0.66	0.65	-0.9%	
PCB-71/40 23'4'6/22'33'-TeCB	23.11	3.92E+07	0.78 Y	0.79	0.83	4.9%	
PCB-64 23'4'6'-TeCB	23.30	2.76E+07	0.77 Y	1.13	1.17	3.4%	
PCB-72 23'55'-TeCB	24.02	3.22E+07	0.79 Y	1.31	1.37	4.5%	
PCB-68 23'45'-TeCB	24.26	3.45E+07	0.80 Y	1.43	1.47	2.8%	
PCB-57 23'35'-TeCB	24.61	3.05E+07	0.79 Y	1.26	1.30	3.0%	
PCB-58 23'35'-TeCB	24.81	3.19E+07	0.80 Y	1.30	1.36	4.1%	
PCB-67 23'45'-TeCB	24.96	3.26E+07	0.80 Y	1.35	1.39	3.1%	
PCB-63 23'45'-TeCB	25.18	3.43E+07	0.79 Y	1.42	1.46	2.7%	
PCB-61/70/74/76 ...-TeCB	25.46	1.27E+08	0.78 Y	1.32	1.35	2.5%	
PCB-66 23'44'-TeCB	25.74	3.02E+07	0.79 Y	1.26	1.29	2.0%	
PCB-55 23'34'-TeCB	25.88	3.03E+07	0.80 Y	1.24	1.29	4.3%	
PCB-56 23'34'-TeCB	26.31	2.95E+07	0.80 Y	1.22	1.25	2.5%	
PCB-60 23'44'-TeCB	26.49	3.07E+07	0.79 Y	1.29	1.31	1.6%	
PCB-80 33'55'-TeCB	26.84	3.50E+07	0.80 Y	1.42	1.49	4.8%	
PCB-79 33'45'-TeCB	28.13	3.59E+07	0.79 Y	1.47	1.53	4.1%	
PCB-78 33'45'-TeCB	28.59	2.95E+07	0.79 Y	1.23	1.26	1.7%	
PCB-104 22'466'-PeCB	22.20	2.54E+07	0.63 Y	1.06	1.07	1.6%	
PCB-96 22'366'-PeCB	22.52	2.20E+07	0.62 Y	0.90	0.93	3.1%	
PCB-103 22'45'6'-PeCB	24.16	1.63E+07	0.63 Y	0.84	0.87	3.4%	
PCB-94 22'356'-PeCB	24.35	1.41E+07	0.61 Y	0.73	0.75	3.0%	
PCB-95 22'35'6'-PeCB	24.72	1.50E+07	0.62 Y	0.78	0.80	2.5%	
PCB-100/93 22'44'6/22'356'-PeCB	24.91	3.05E+07	0.62 Y	0.77	0.81	5.0%	
PCB-102 22'456'-PeCB	25.03	1.52E+07	0.60 Y	0.83	0.81	-3.0%	
PCB-98 22'34'6'-PeCB	25.09	1.52E+07	0.63 Y	0.75	0.81	7.7%	
PCB-88 22'346'-PeCB	25.38	1.39E+07	0.61 Y	0.74	0.74	0.0%	
PCB-91 22'34'6'-PeCB	25.45	1.64E+07	0.63 Y	0.83	0.87	5.3%	
PCB-84 22'33'6'-PeCB	25.64	1.27E+07	0.62 Y	0.66	0.68	2.3%	
PCB-89 22'346'-PeCB	26.04	1.37E+07	0.61 Y	0.69	0.73	5.1%	
PCB-121 23'45'6'-PeCB	26.40	2.07E+07	0.62 Y	1.06	1.10	4.1%	
PCB-92 22'355'-PeCB	26.72	1.44E+07	0.61 Y	0.73	0.77	5.0%	
PCB-113/90/101 ...-PeCB	27.19	5.03E+07	0.61 Y	0.85	0.89	4.8%	
PCB-83 22'33'5'-PeCB	27.61	1.31E+07	0.62 Y	0.65	0.70	7.8%	
PCB-99 22'44'5'-PeCB	27.70	1.57E+07	0.63 Y	0.84	0.84	-0.6%	
PCB-112 23'3'56'-PeCB	27.80	1.96E+07	0.63 Y	1.00	1.04	4.5%	
PCB-109/119/86/97/125...-PeCB	28.14	1.02E+08	0.63 Y	0.87	0.90	3.8%	
PCB-117 23'4'56'-PeCB	28.66	1.97E+07	0.62 Y	0.88	1.05	19.6%	
PCB-116/85 23'456/22'344'-PeCB	28.73	3.30E+07	0.63 Y	0.91	0.88	-3.8%	
PCB-110 23'3'4'6'-PeCB	28.87	1.87E+07	0.63 Y	0.99	1.00	1.0%	

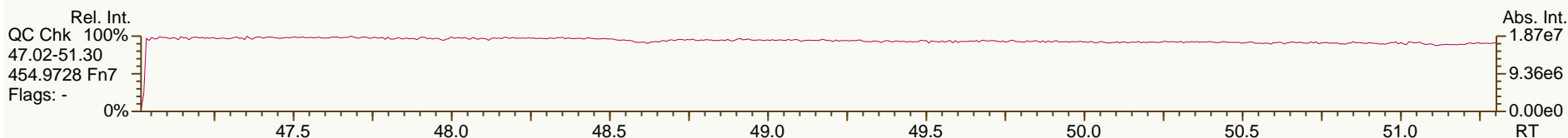
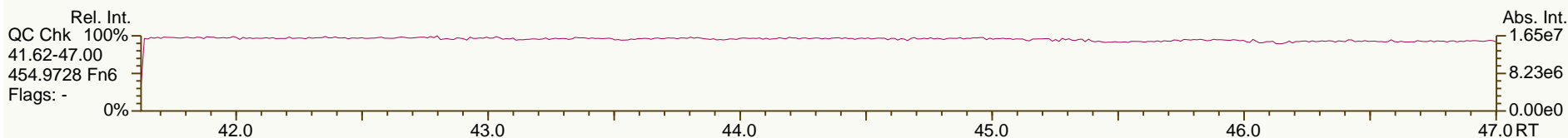
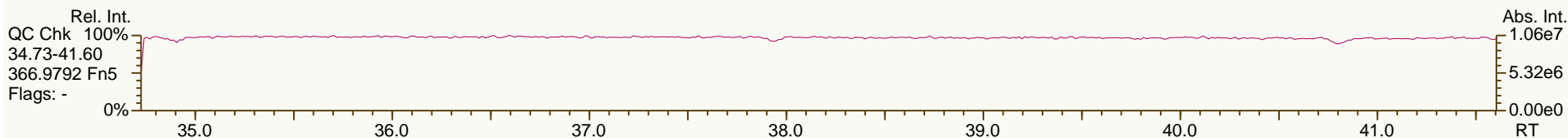
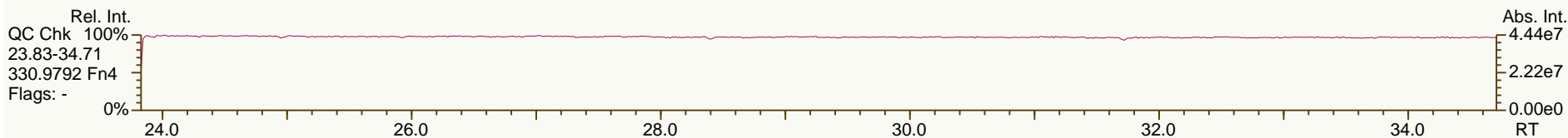
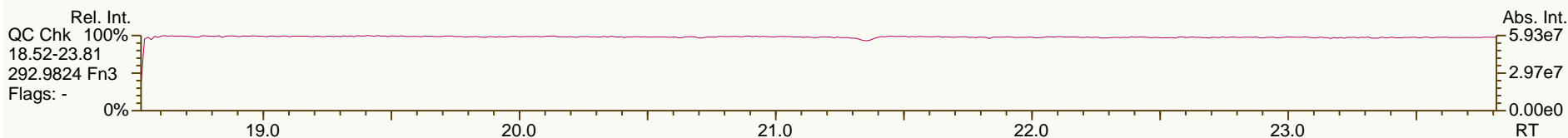
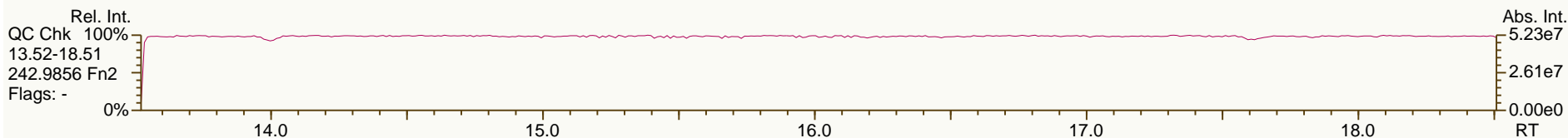
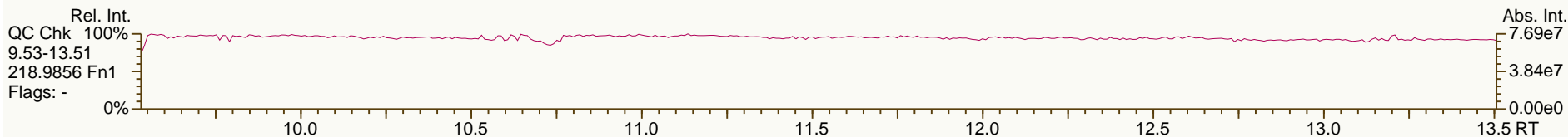
PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS3_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 16:57						
Datafile:	130911S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6-PeCB	28.94	2.01E+07	0.63 Y	1.01	1.07	6.1%	
PCB-82 22'33'4-PeCB	29.14	1.23E+07	0.63 Y	0.62	0.66	5.2%	
PCB-111 233'55'-PeCB	29.48	2.10E+07	0.62 Y	1.07	1.12	4.5%	
PCB-120 23'455'-PeCB	29.87	2.10E+07	0.63 Y	1.07	1.12	4.3%	
PCB-108/124 ...-PeCB	30.82	3.87E+07	0.62 Y	0.98	1.03	4.9%	
PCB-107 233'4'5-PeCB	31.02	2.14E+07	0.61 Y	1.07	1.14	6.7%	
PCB-106 233'45-PeCB	31.22	1.98E+07	0.63 Y	1.00	1.06	5.6%	
PCB-122 233'4'5'-PeCB	31.69	1.84E+07	0.63 Y	0.89	0.92	3.7%	
PCB-127 33'455'-PeCB	33.63	1.98E+07	0.62 Y	0.98	1.01	2.3%	
PCB-155 22'44'66'-HxCB	27.02	2.56E+07	1.26 Y	1.12	1.17	4.4%	
PCB-152 22'3566'-HxCB	27.18	2.37E+07	1.25 Y	1.05	1.09	3.6%	
PCB-150 22'34'66'-HxCB	27.32	2.39E+07	1.25 Y	1.07	1.10	2.9%	
PCB-136 22'33'66'-HxCB	27.62	2.21E+07	1.28 Y	0.99	1.01	2.4%	
PCB-145 22'3466'-HxCB	27.88	2.26E+07	1.27 Y	1.00	1.03	3.8%	
PCB-148 22'34'56'-HxCB	29.16	1.74E+07	1.24 Y	1.03	1.06	3.3%	
PCB-151/135 ...-HxCB	29.67	3.34E+07	1.24 Y	1.00	1.02	1.6%	
PCB-154 22'44'56'-HxCB	29.87	1.90E+07	1.27 Y	1.13	1.16	3.0%	
PCB-144 22'345'6-HxCB	30.13	1.72E+07	1.28 Y	1.03	1.05	1.7%	
PCB-147/149 ...-HxCB	30.43	3.45E+07	1.25 Y	1.03	1.05	2.3%	
PCB-134 22'33'56-HxCB	30.60	1.30E+07	1.25 Y	0.84	0.79	-5.2%	
PCB-143 22'3456'-HxCB	30.67	1.75E+07	1.26 Y	0.95	1.07	12.5%	
PCB-139/140 ...-HxCB	30.93	3.53E+07	1.24 Y	1.05	1.07	2.3%	
PCB-131 22'33'46-HxCB	31.10	1.52E+07	1.26 Y	0.87	0.92	5.7%	
PCB-142 22'3456-HxCB	31.23	1.51E+07	1.26 Y	0.91	0.92	1.1%	
PCB-132 22'33'46'-HxCB	31.49	1.54E+07	1.26 Y	0.92	0.94	2.3%	
PCB-133 22'33'55'-HxCB	31.91	1.62E+07	1.26 Y	0.97	0.99	2.3%	
PCB-165 233'55'6-HxCB	32.25	2.01E+07	1.25 Y	1.19	1.23	2.6%	
PCB-146 22'34'55'-HxCB	32.46	1.80E+07	1.24 Y	1.08	1.09	1.0%	
PCB-161 233'45'6-HxCB	32.57	2.31E+07	1.26 Y	1.34	1.41	4.6%	
PCB-153/168 ...-HxCB	33.00	4.28E+07	1.25 Y	1.26	1.30	3.5%	
PCB-141 22'3455'-HxCB	33.14	1.65E+07	1.23 Y	0.98	1.00	2.2%	
PCB-130 22'33'45'-HxCB	33.48	1.48E+07	1.27 Y	0.88	0.90	2.7%	
PCB-137 22'344'5-HxCB	33.66	1.75E+07	1.26 Y	1.07	1.07	-0.7%	
PCB-164 233'4'5'6-HxCB	33.76	2.24E+07	1.25 Y	1.29	1.36	5.4%	
PCB-163/138/129 ...-HxCB	34.04	5.30E+07	1.25 Y	1.05	1.08	2.7%	
PCB-160 233'456-HxCB	34.16	2.22E+07	1.25 Y	1.26	1.35	7.4%	
PCB-158 233'44'6-HxCB	34.35	2.39E+07	1.25 Y	1.40	1.46	4.1%	
PCB-128/166 ...-HxCB	35.07	3.27E+07	1.24 Y	0.89	0.91	2.4%	
PCB-159 233'455'-HxCB	35.91	1.93E+07	1.24 Y	1.04	1.07	3.0%	
PCB-162 233'4'55'-HxCB	36.15	1.94E+07	1.22 Y	1.04	1.08	3.8%	
PCB-188 22'34'566'-HpCB	31.84	2.44E+07	1.05 Y	0.97	1.00	3.4%	
PCB-179 22'33'566'-HpCB	32.12	2.24E+07	1.03 Y	0.89	0.92	2.8%	
PCB-184 22'344'66'-HpCB	32.56	2.22E+07	1.02 Y	0.87	0.91	4.6%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:36			
Lab ID:	CS3_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 16:57						
Datafile:	130911S06						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	32.86	2.42E+07	1.02 Y	0.97	0.99	2.9%	
PCB-186 22'34566'-HpCB	33.24	2.32E+07	1.02 Y	0.93	0.96	2.2%	
PCB-178 22'33'55'6'-HpCB	34.41	1.68E+07	1.07 Y	0.67	0.69	2.6%	
PCB-175 22'33'45'6'-HpCB	34.94	1.55E+07	1.02 Y	0.97	1.00	2.4%	
PCB-187 22'34'55'6'-HpCB	35.17	1.61E+07	1.04 Y	1.02	1.04	1.8%	
PCB-182 22'344'56'-HpCB	35.34	1.64E+07	1.04 Y	1.05	1.06	1.1%	
PCB-183 22'344'5'6'-HpCB	35.68	1.62E+07	1.03 Y	1.07	1.05	-1.7%	
PCB-185 22'3455'6'-HpCB	35.76	1.60E+07	1.03 Y	0.96	1.03	7.9%	
PCB-174 22'33'456'-HpCB	35.88	1.37E+07	1.03 Y	0.86	0.88	3.4%	
PCB-177 22'33'45'6'-HpCB	36.25	1.35E+07	1.04 Y	0.83	0.87	4.9%	
PCB-181 22'344'56'-HpCB	36.58	1.57E+07	1.03 Y	1.00	1.01	1.6%	
PCB-171/173 ...-HpCB	36.76	2.74E+07	1.04 Y	0.86	0.88	2.3%	
PCB-172 22'33'455'-HpCB	38.14	1.42E+07	1.05 Y	0.87	0.92	5.1%	
PCB-192 233'455'6'-HpCB	38.38	1.89E+07	1.04 Y	1.19	1.22	2.6%	
PCB-180/193 ...-HpCB	38.66	3.50E+07	1.03 Y	1.11	1.13	1.8%	
PCB-191 233'44'5'6'-HpCB	38.98	1.95E+07	1.04 Y	1.23	1.26	2.2%	
PCB-170 22'33'44'5'-HpCB	39.74	1.40E+07	1.05 Y	1.01	1.03	2.4%	
PCB-190 233'44'56'-HpCB	40.18	1.93E+07	1.04 Y	1.42	1.43	0.7%	
PCB-202 22'33'55'66'-OcCB	36.35	1.76E+07	0.90 Y	0.83	0.87	4.6%	
PCB-201 22'33'45'66'-OcCB	37.13	1.94E+07	0.88 Y	0.94	0.96	1.7%	
PCB-204 22'344'566'-OcCB	37.69	1.85E+07	0.89 Y	0.87	0.91	4.8%	
PCB-197 22'33'44'66'-OcCB	37.89	2.00E+07	0.89 Y	0.97	0.99	1.2%	
PCB-200 22'33'4566'-OcCB	37.98	1.92E+07	0.90 Y	0.89	0.95	6.5%	
PCB-198/199 ...-OcCB	40.32	2.76E+07	0.88 Y	0.66	0.68	3.7%	
PCB-196 22'33'44'56'-OcCB	40.88	1.46E+07	0.88 Y	0.70	0.72	2.4%	
PCB-203 22'344'55'6'-OcCB	41.05	1.52E+07	0.89 Y	0.74	0.75	1.6%	
PCB-195 22'33'44'56'-OcCB	42.16	1.11E+07	0.92 Y	0.78	0.79	0.7%	
PCB-194 22'33'44'55'-OcCB	44.12	1.22E+07	0.92 Y	0.85	0.86	1.9%	
PCB-205 233'44'55'6'-OcCB	44.52	1.56E+07	0.91 Y	1.08	1.10	2.2%	
PCB-208 22'33'455'66'-NoCB	41.96	1.57E+07	0.79 Y	0.99	0.99	-0.7%	
PCB-207 22'33'44'566'-NoCB	42.74	1.65E+07	0.79 Y	1.03	1.03	0.8%	
PCB-206 22'33'44'55'6'-NoCB	45.98	1.15E+07	0.77 Y	0.83	0.84	0.7%	

SGS-AP ID: CS3_130911_PCB_SB
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Sample ID: SIL 13-40-3
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 53

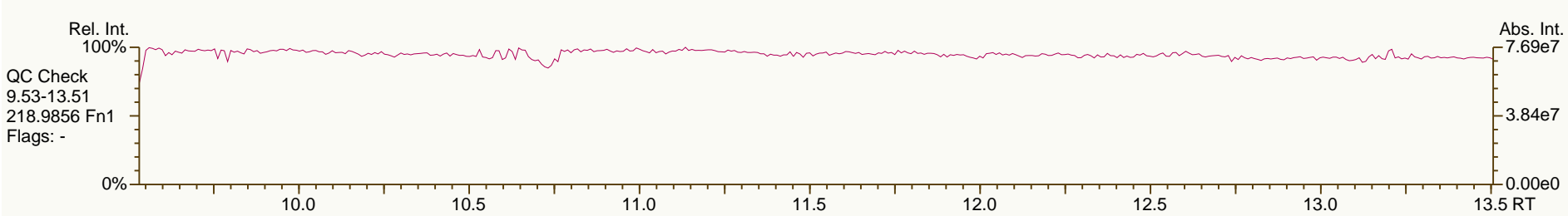
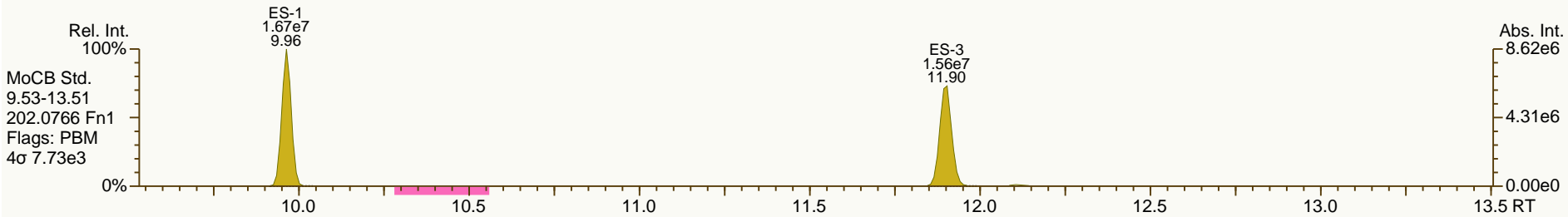
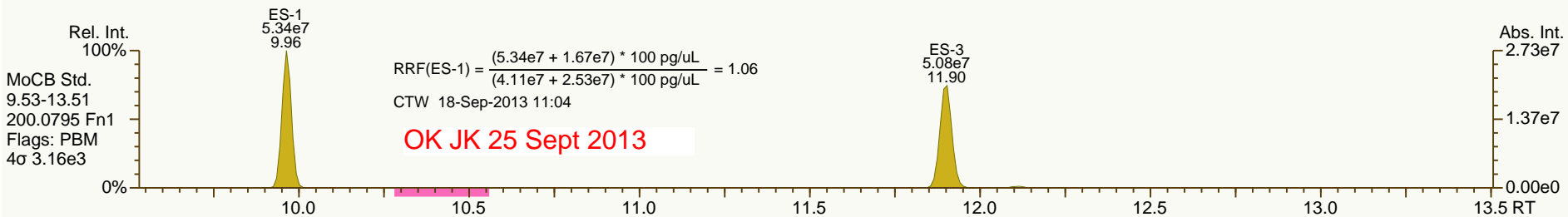
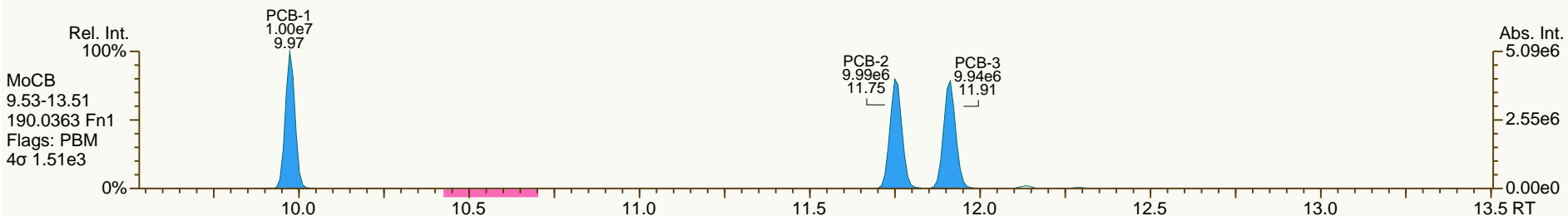
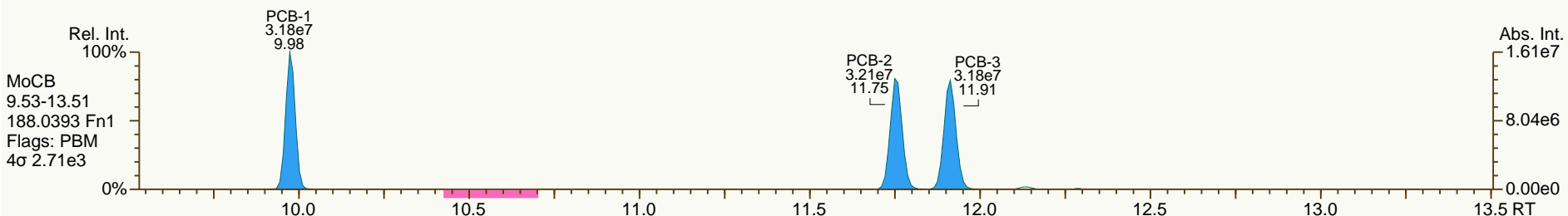
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SGS-AP ID: CS3_130911_PCB_SB
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Sample ID: SIL 13-40-3
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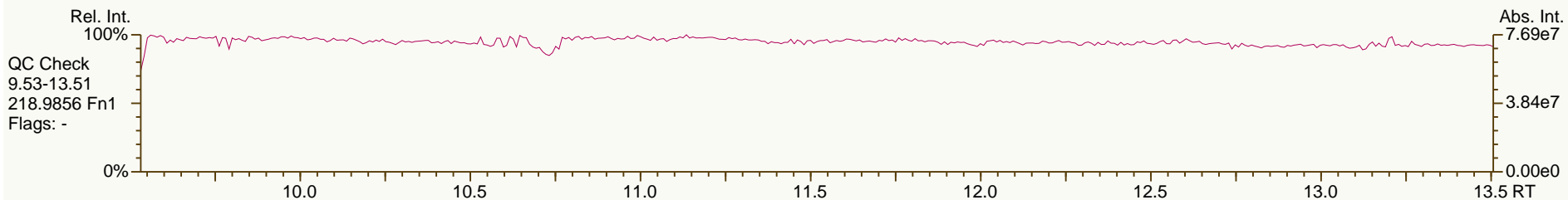
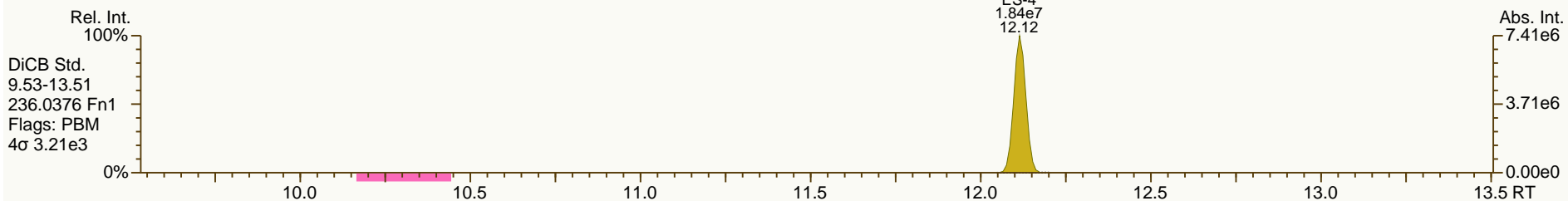
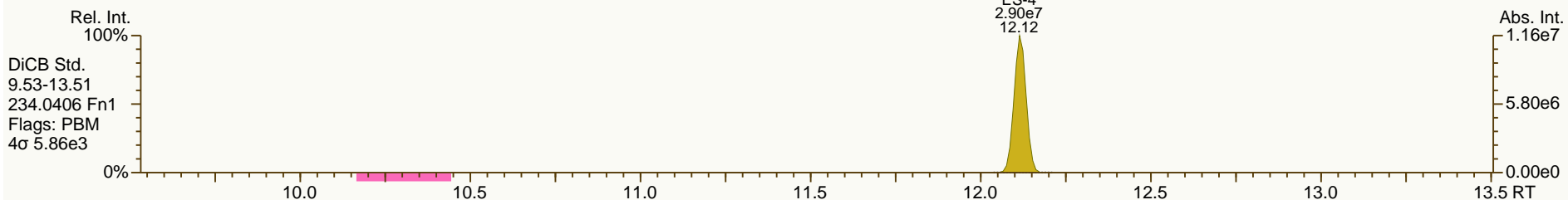
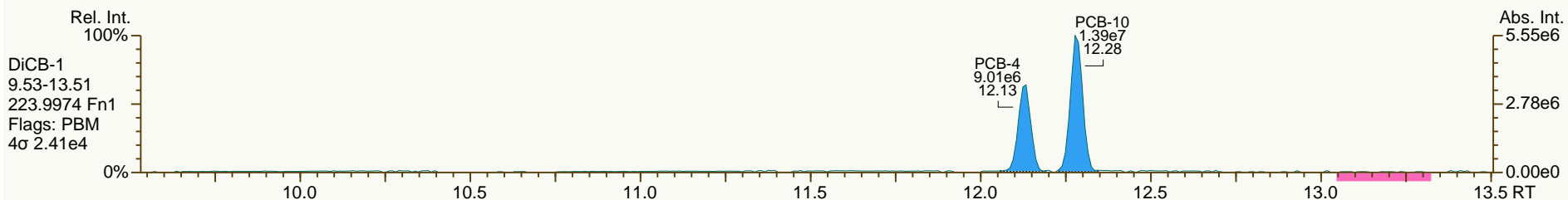
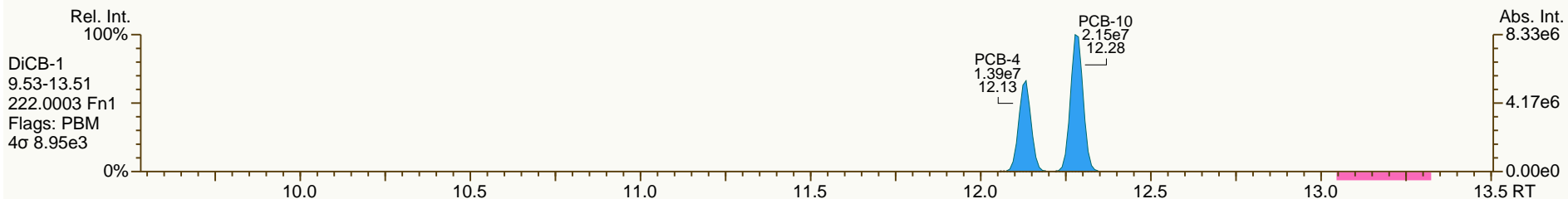
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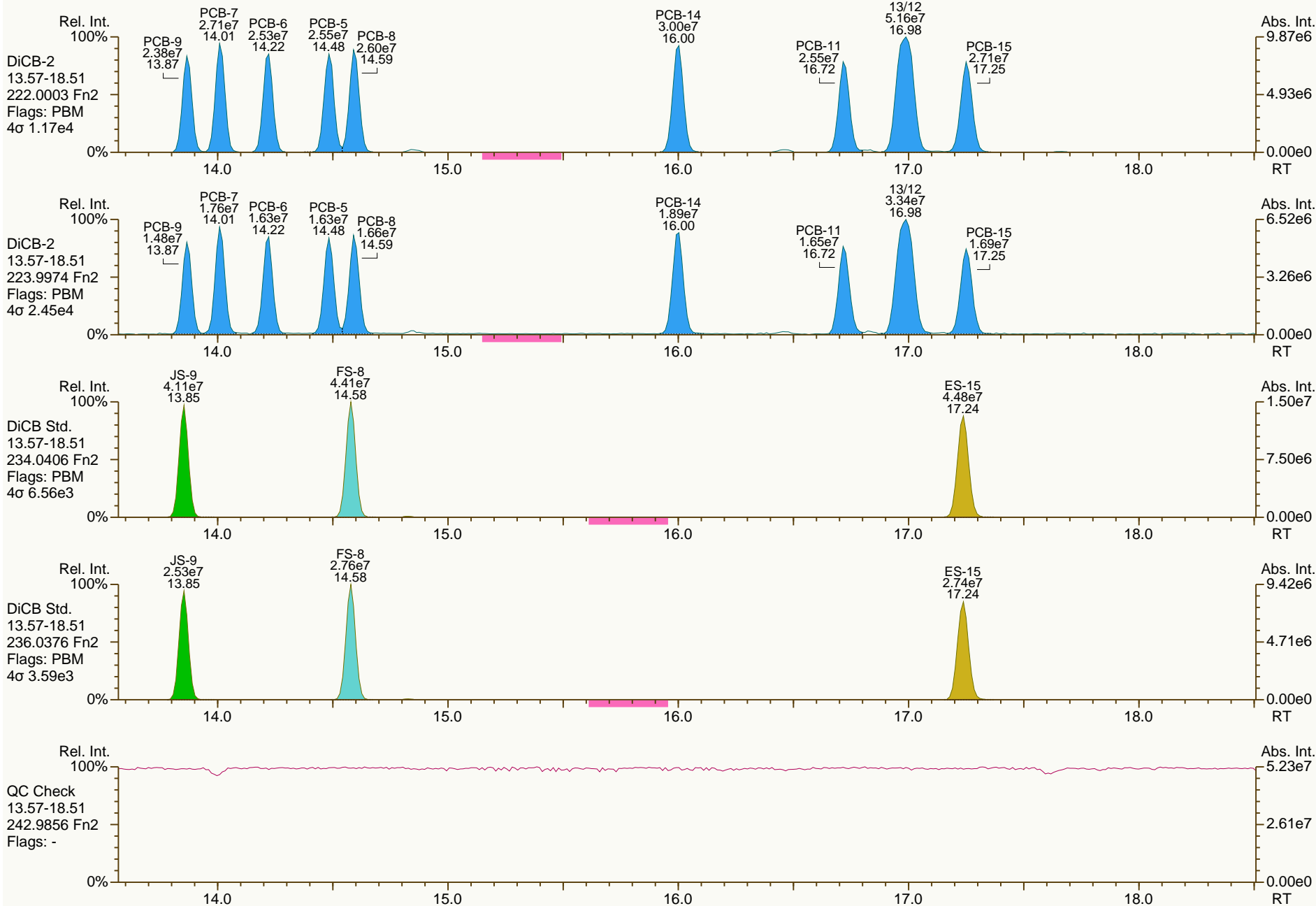
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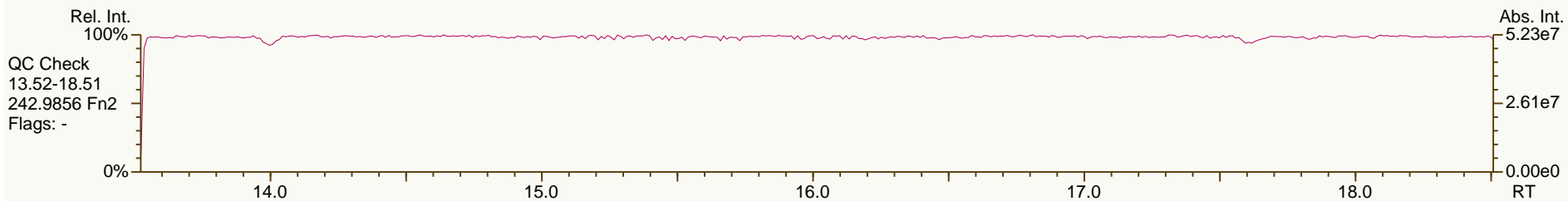
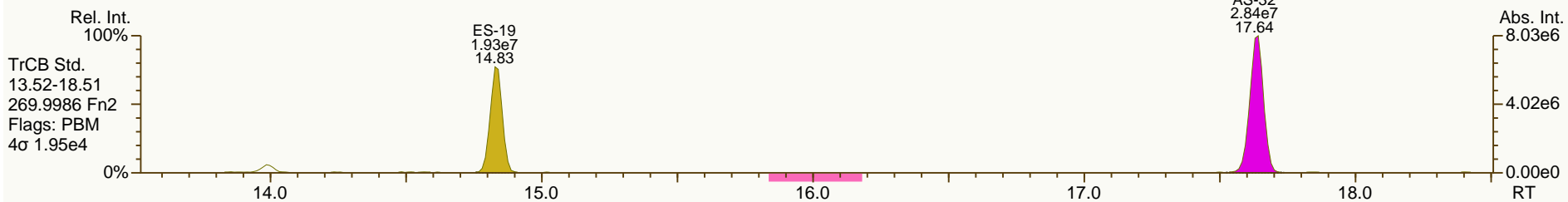
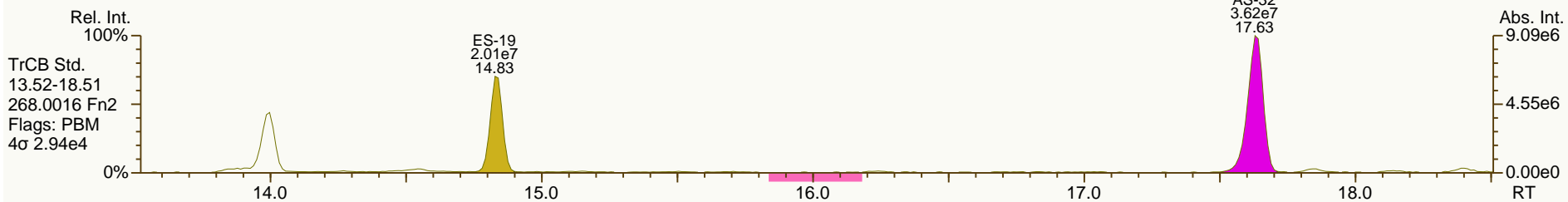
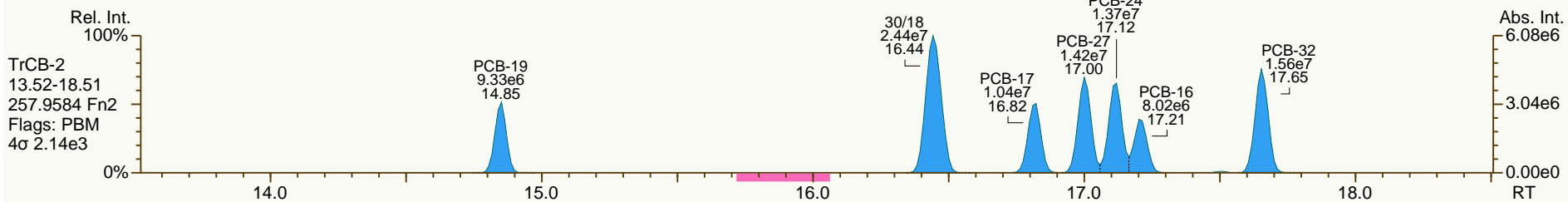
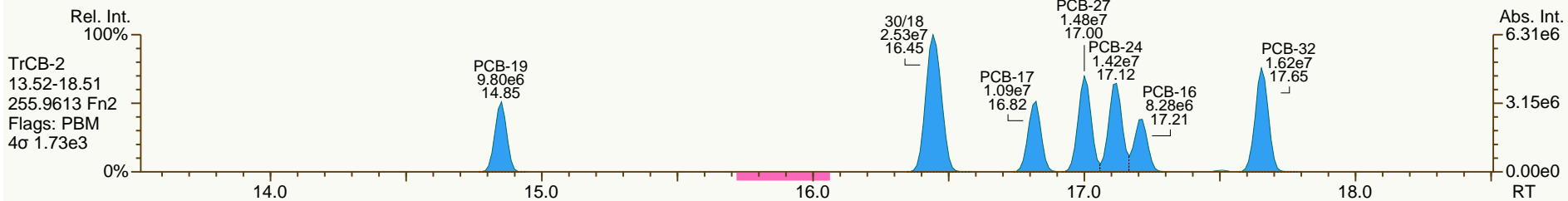
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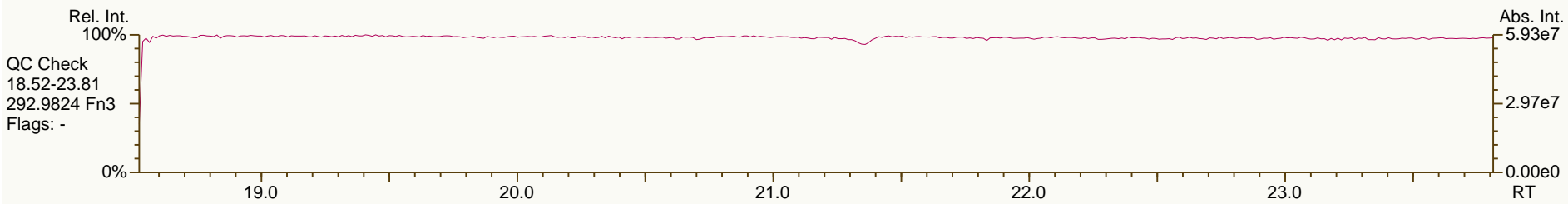
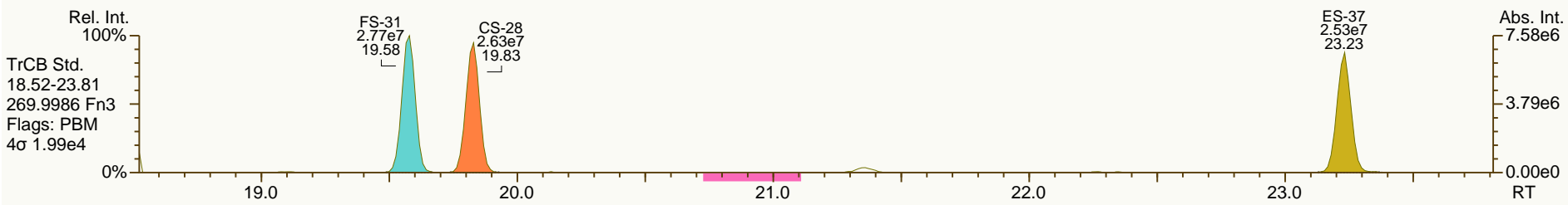
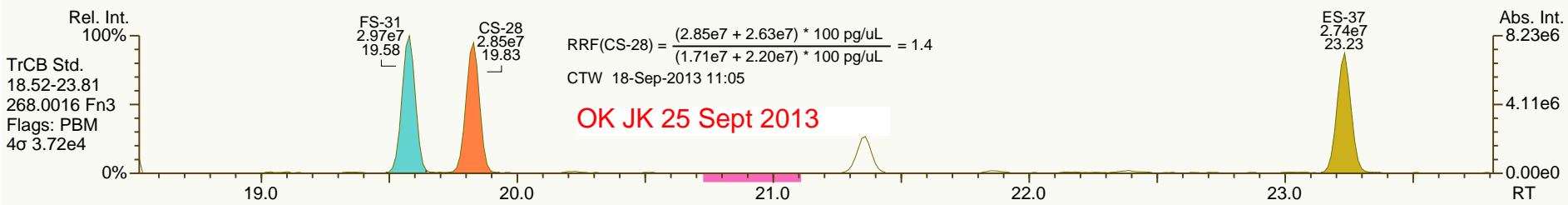
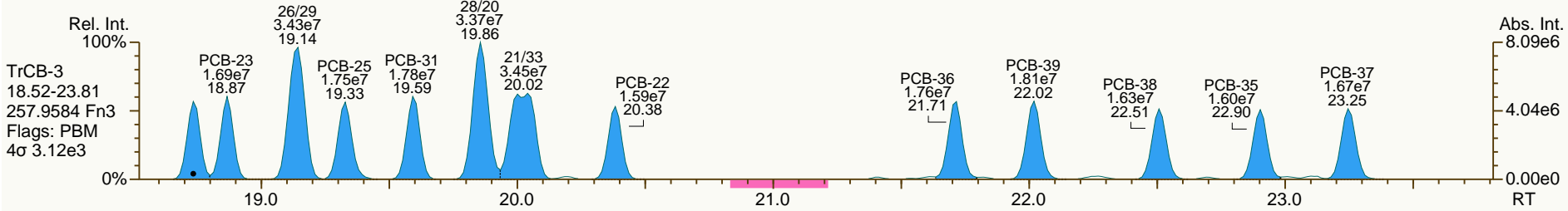
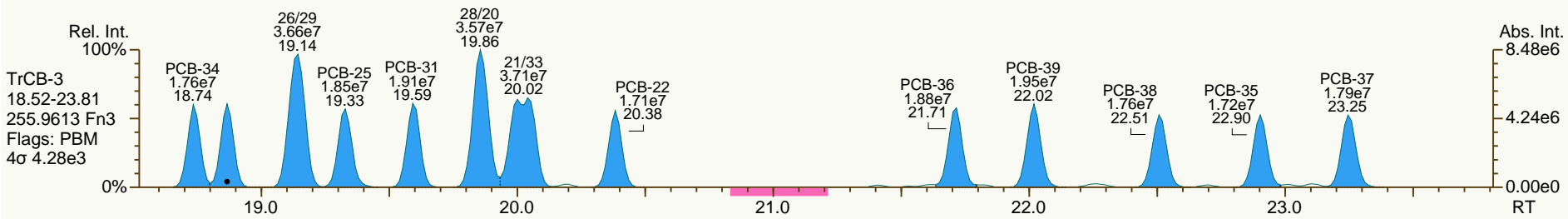
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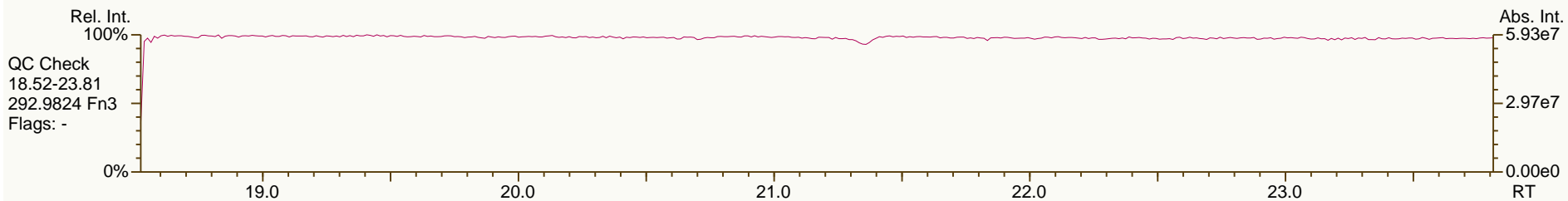
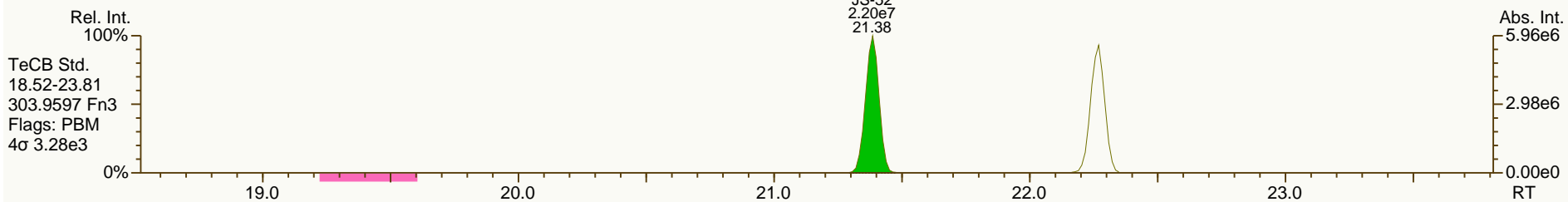
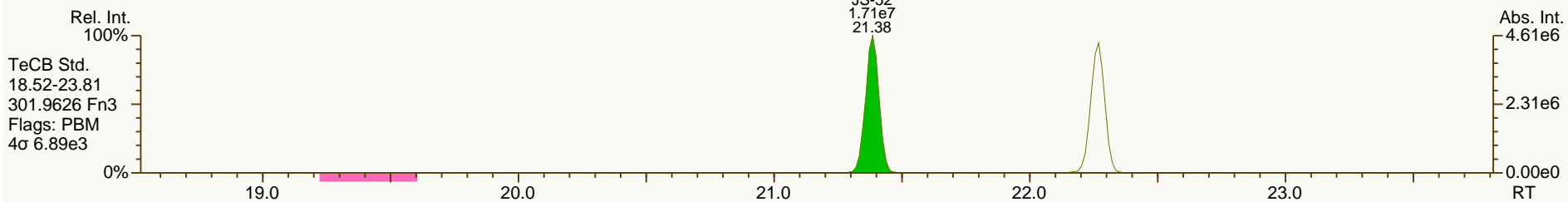
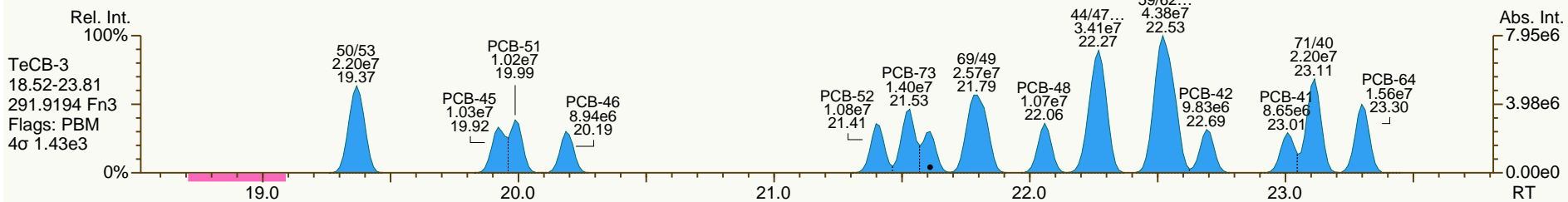
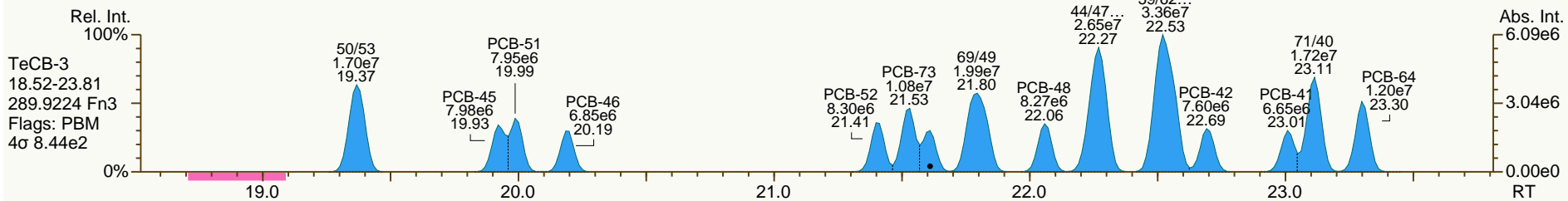
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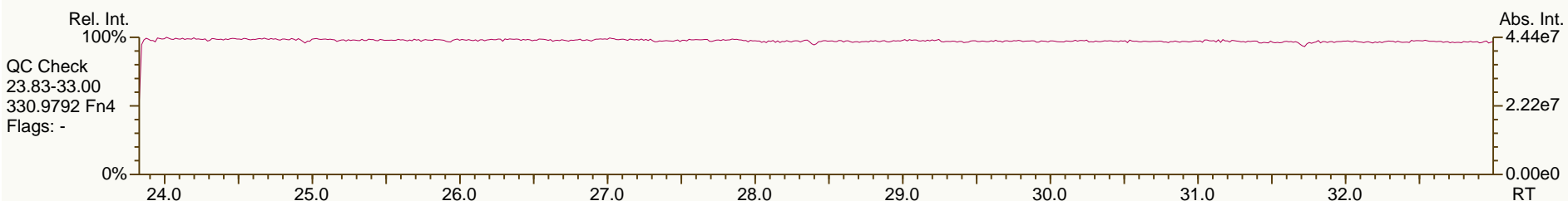
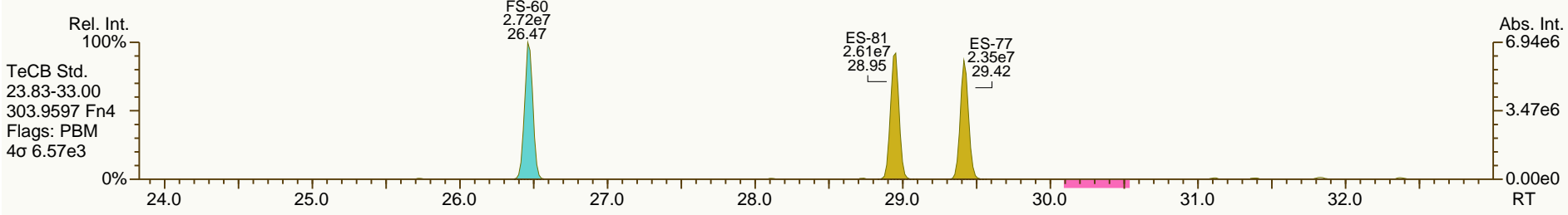
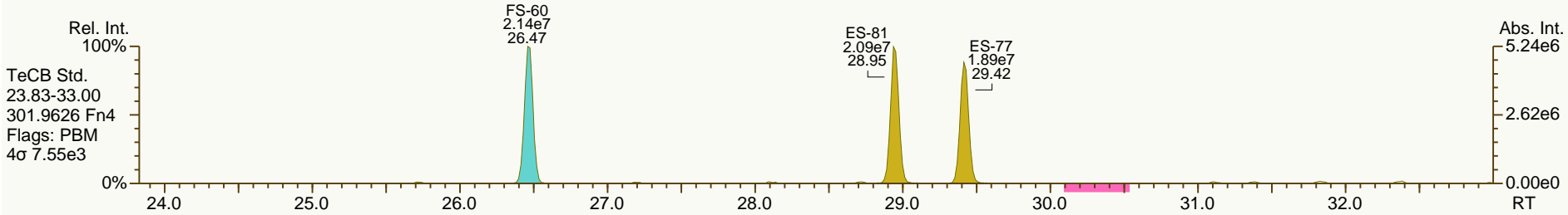
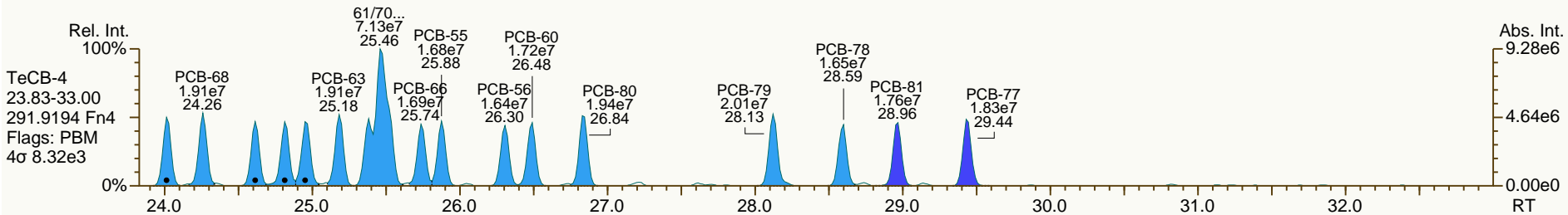
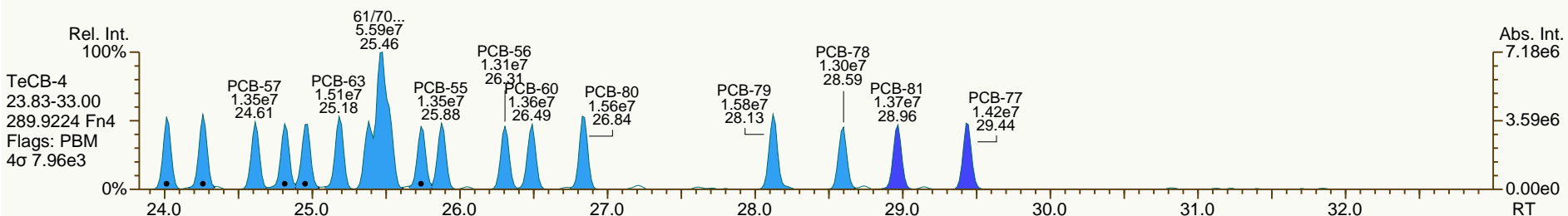
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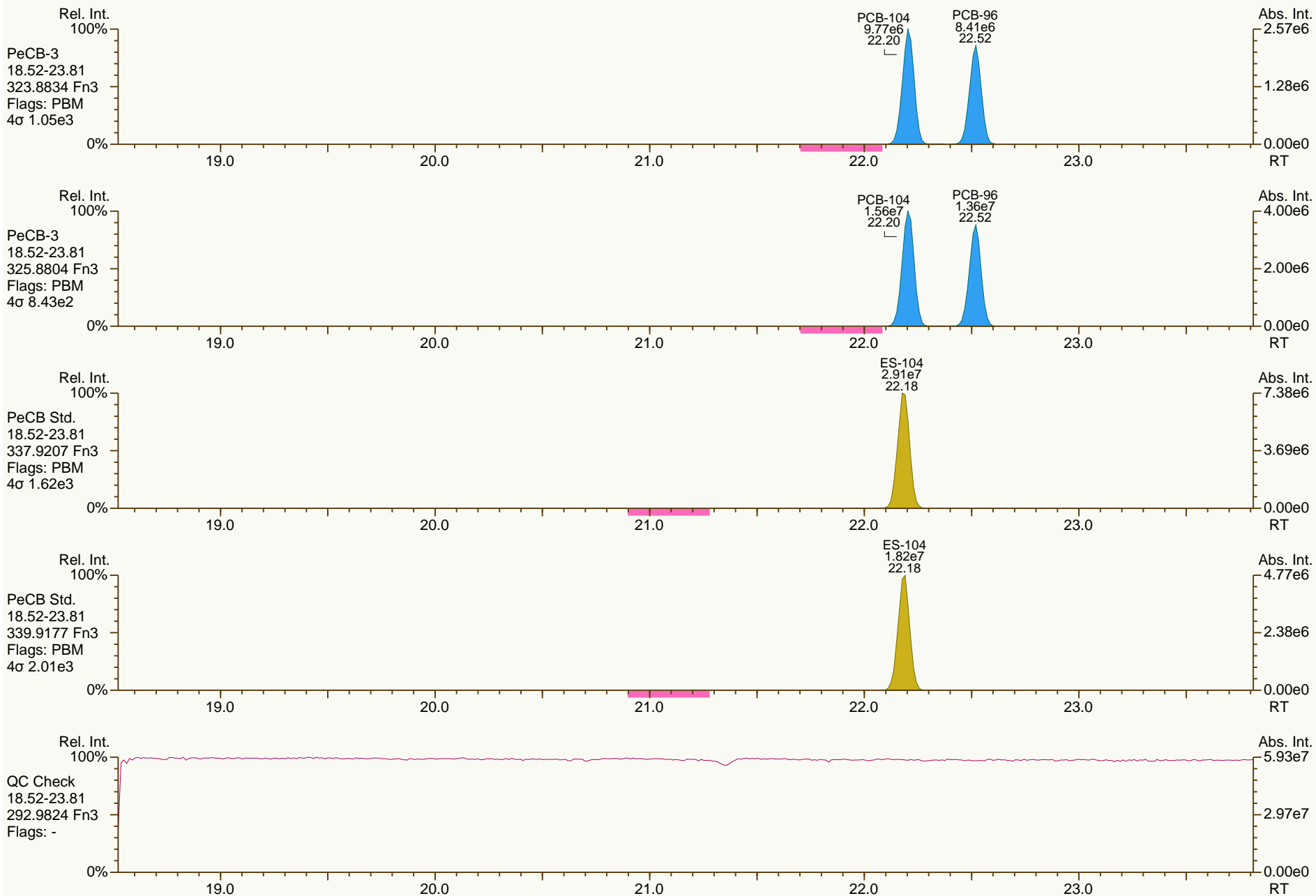
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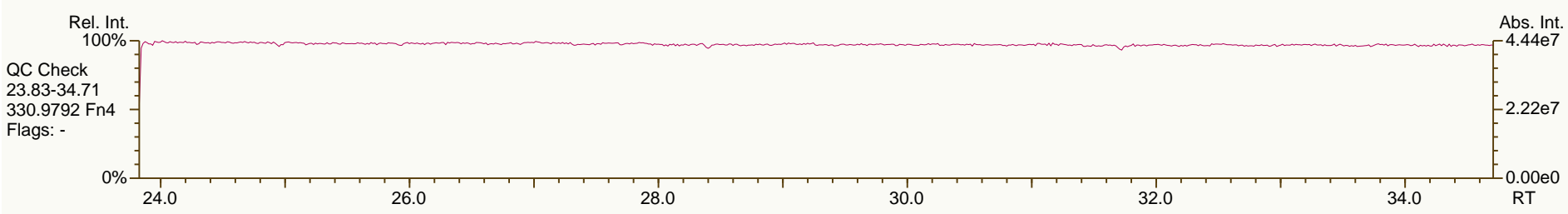
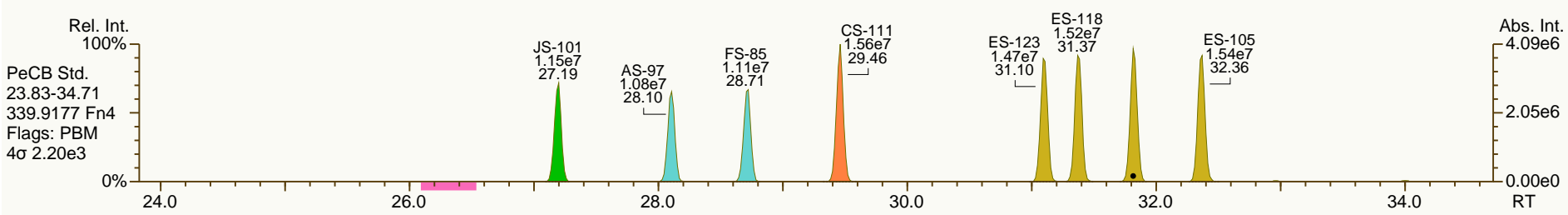
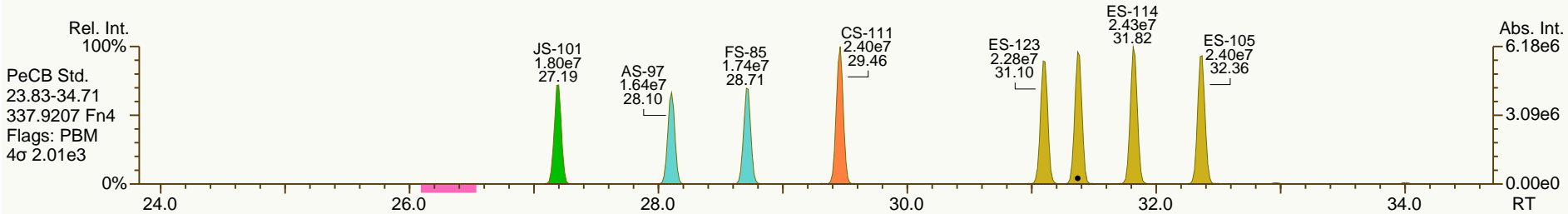
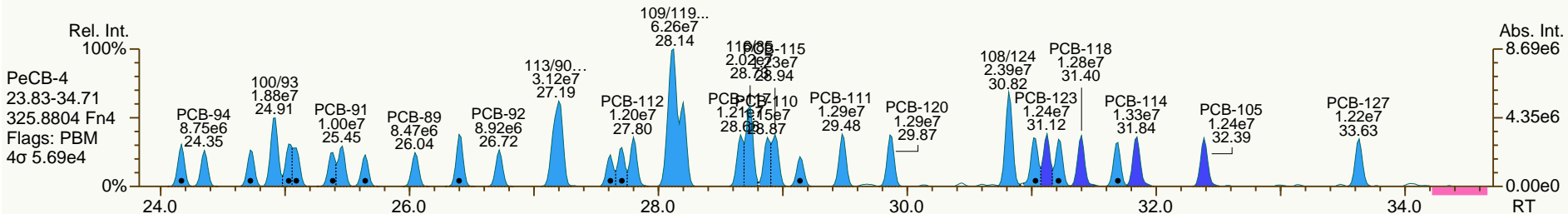
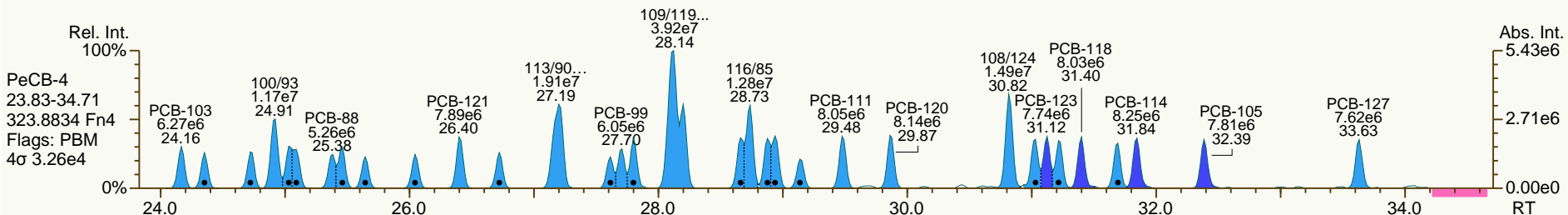
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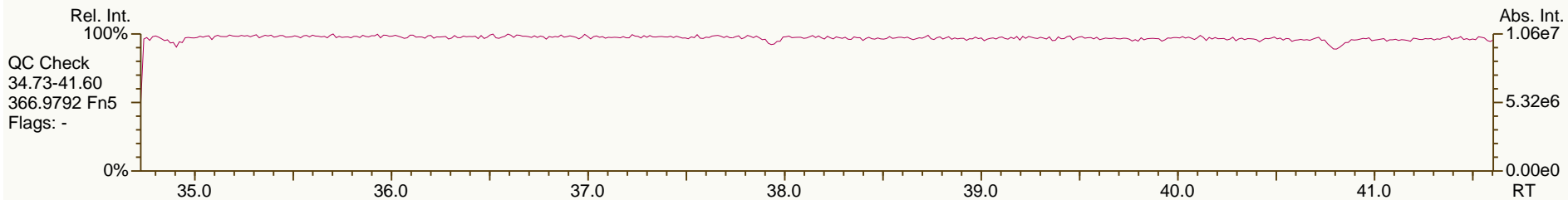
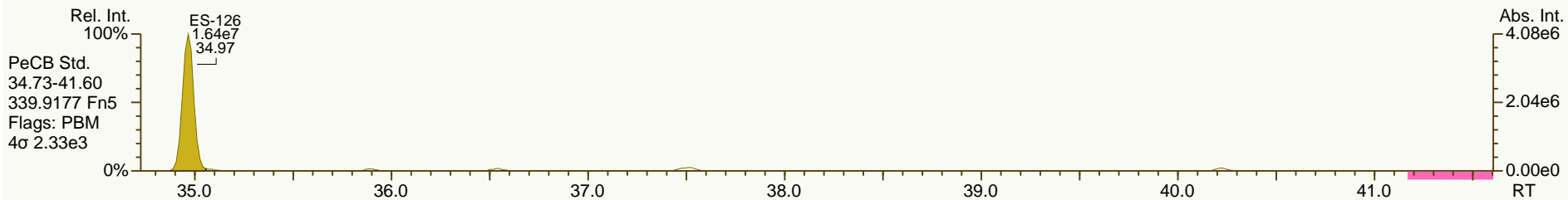
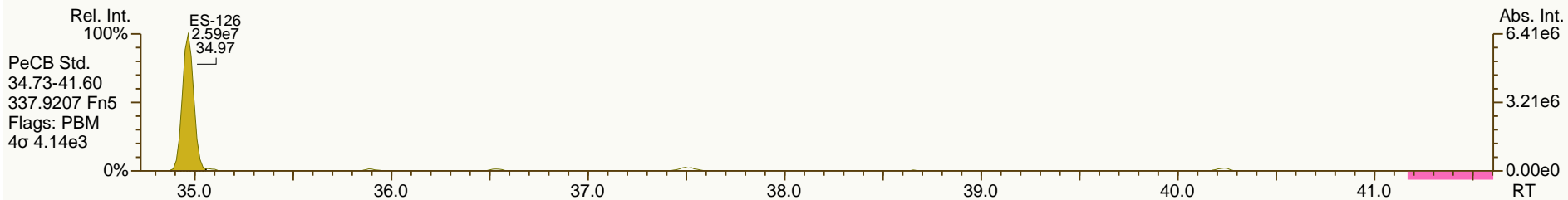
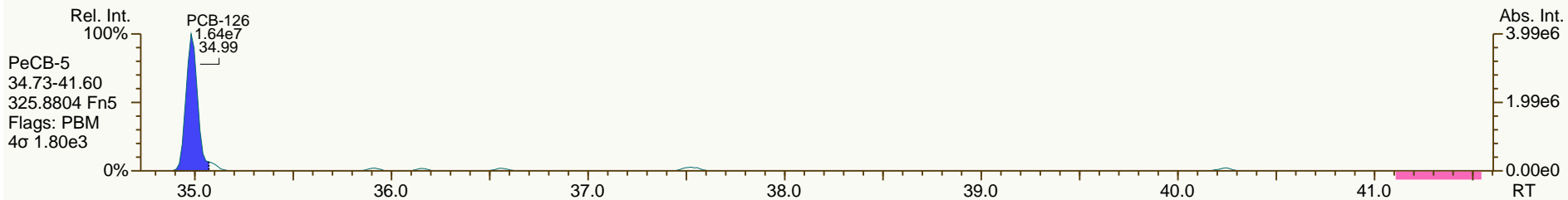
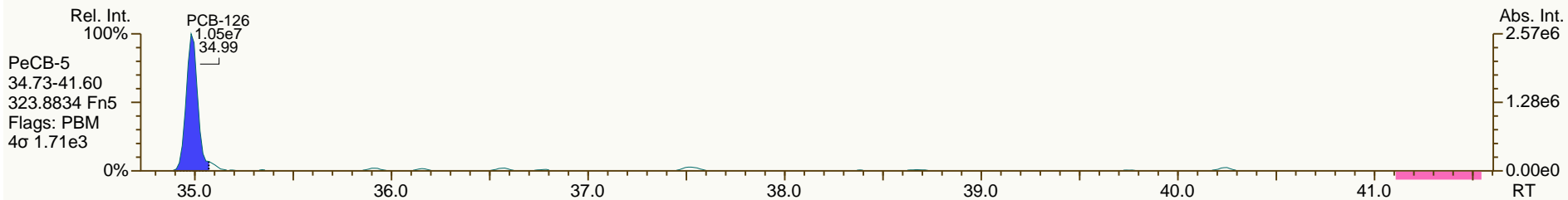
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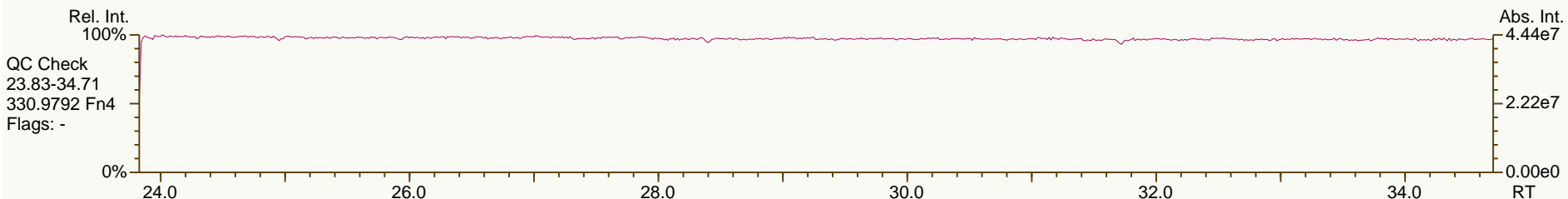
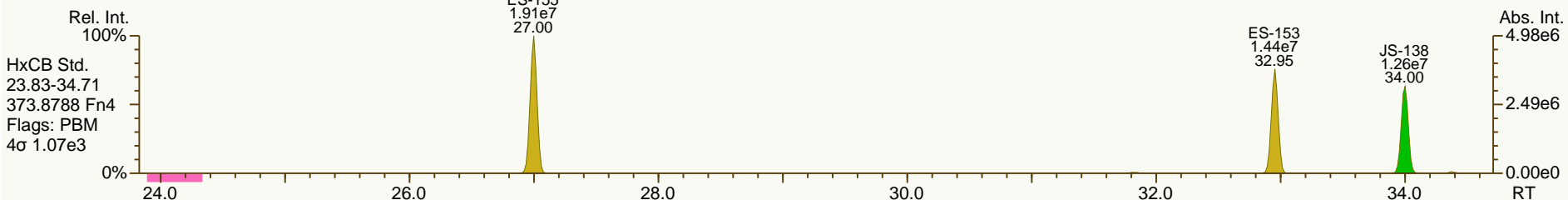
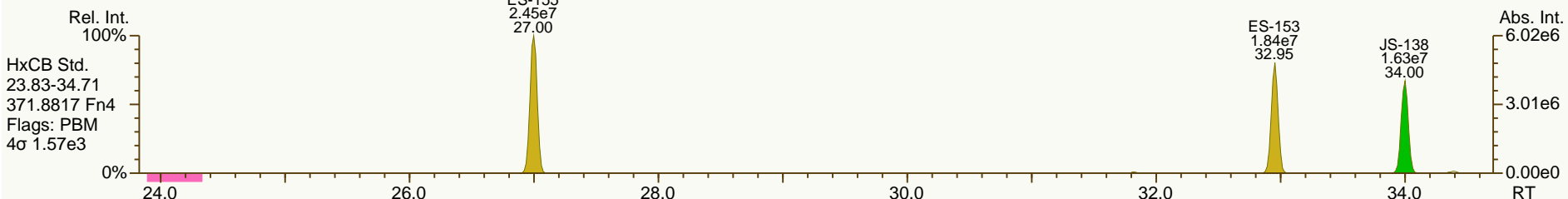
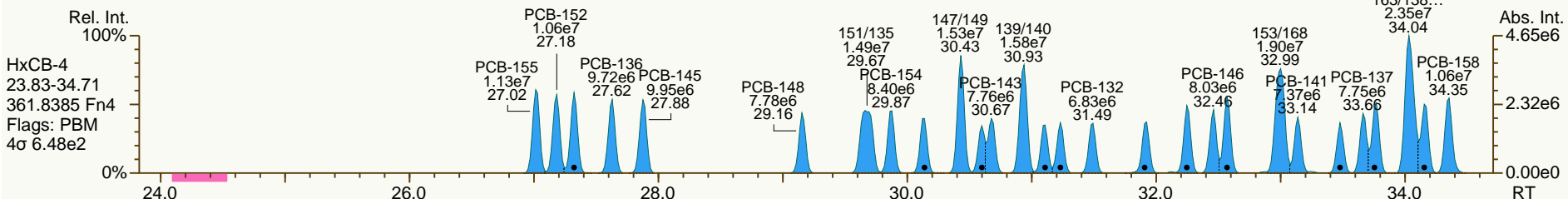
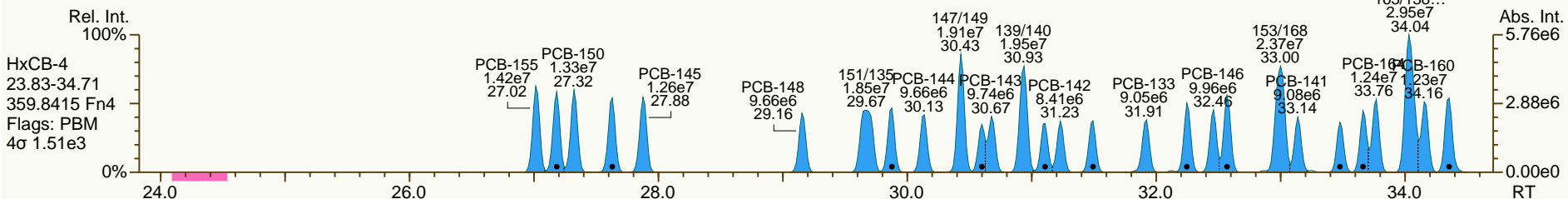
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SGS-AP ID: CS3_130911_PCB_SB
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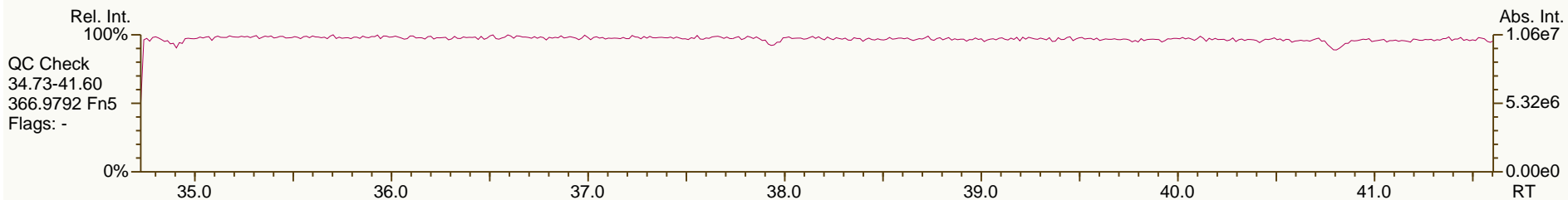
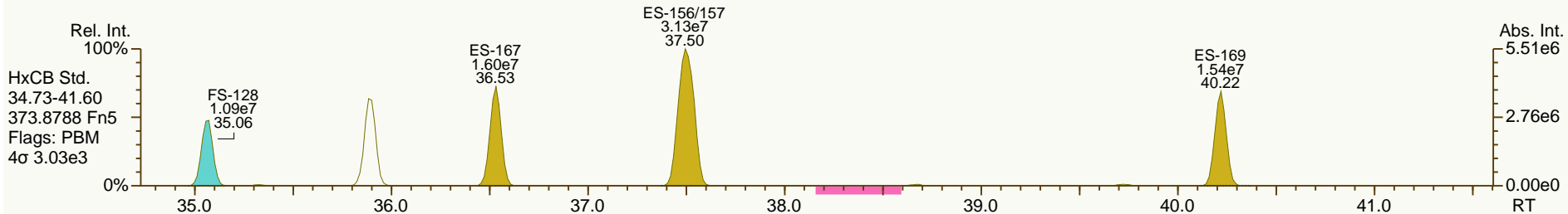
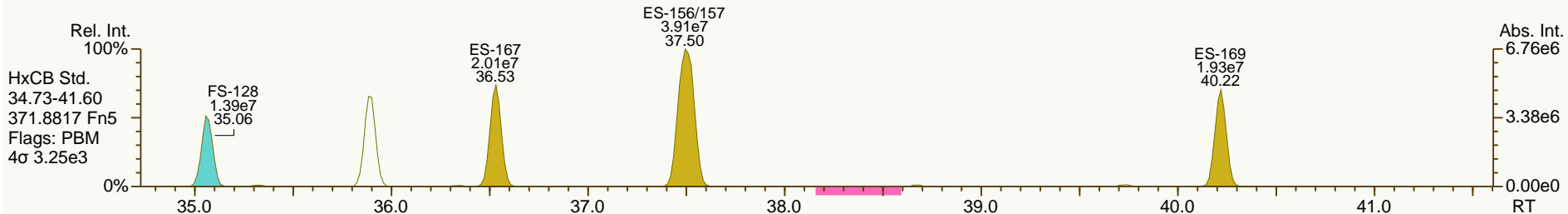
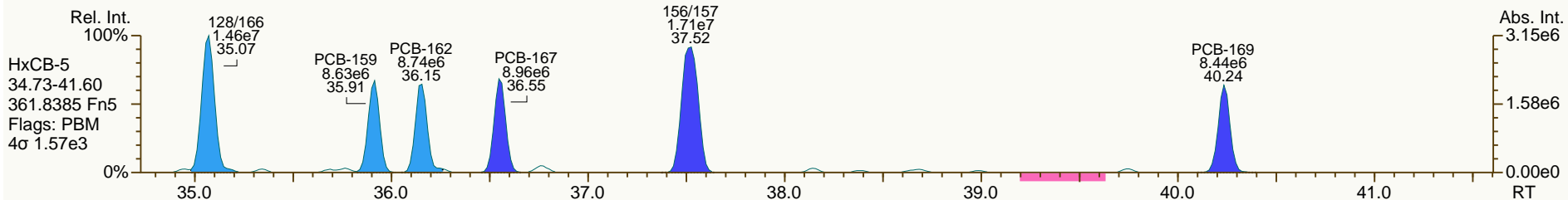
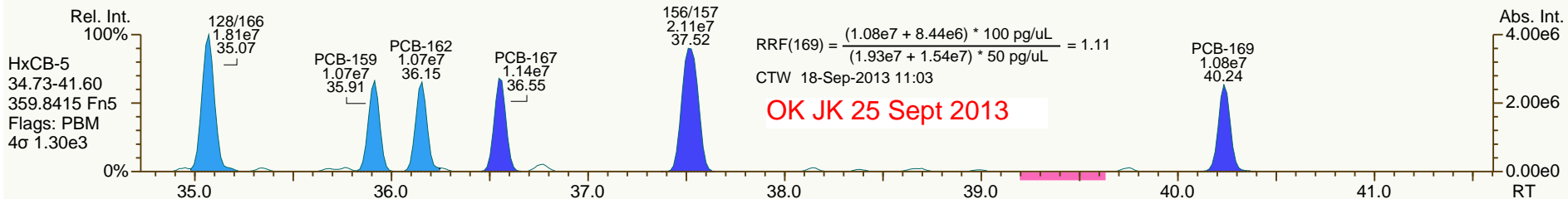
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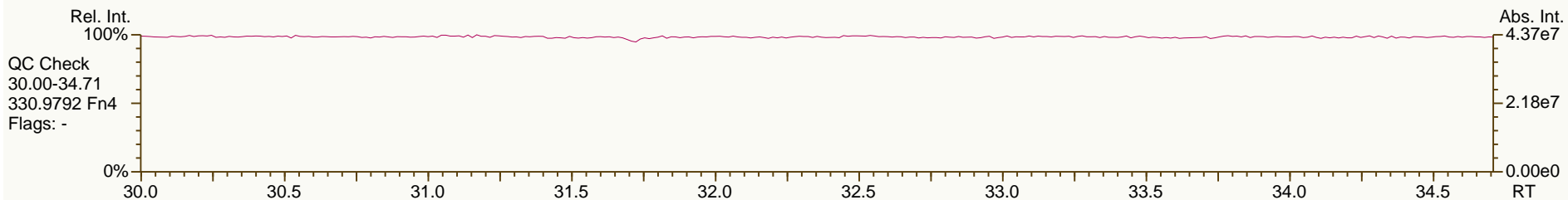
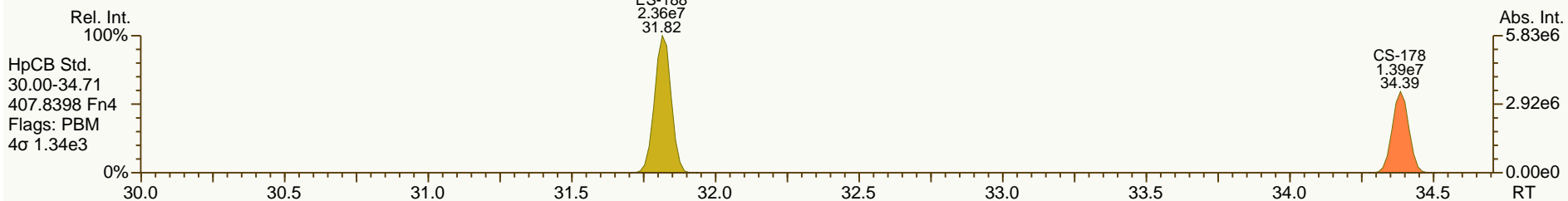
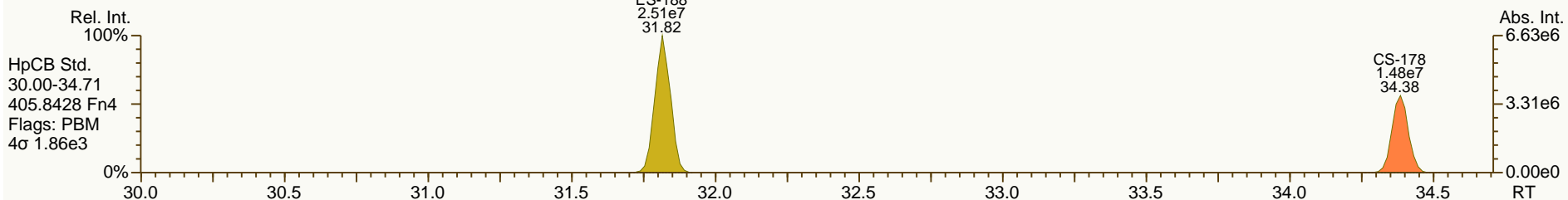
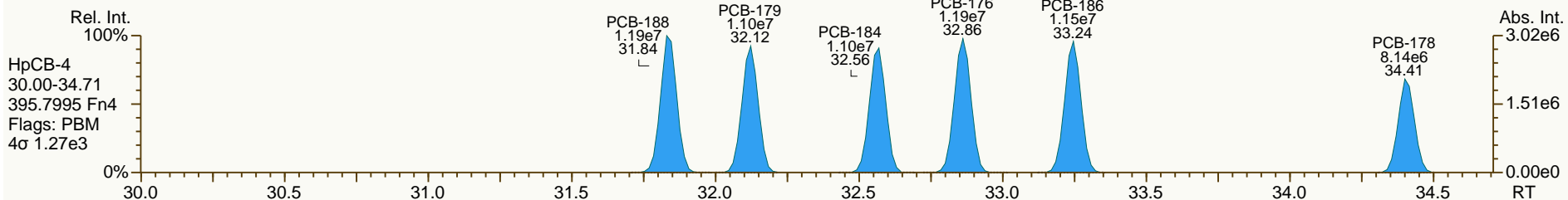
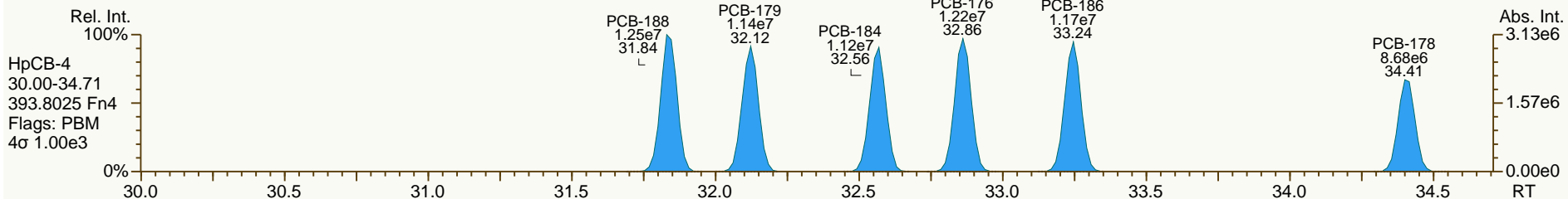
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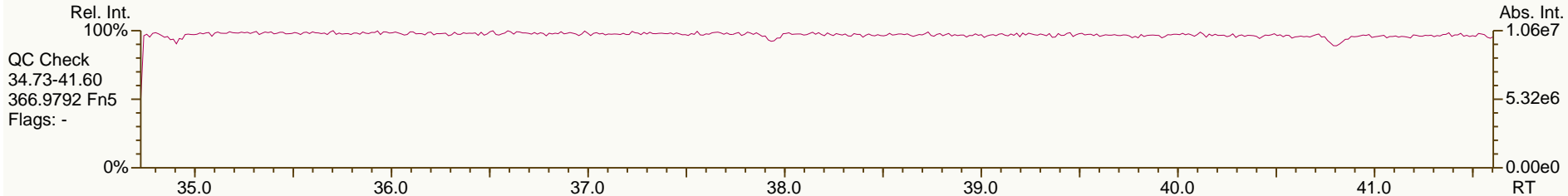
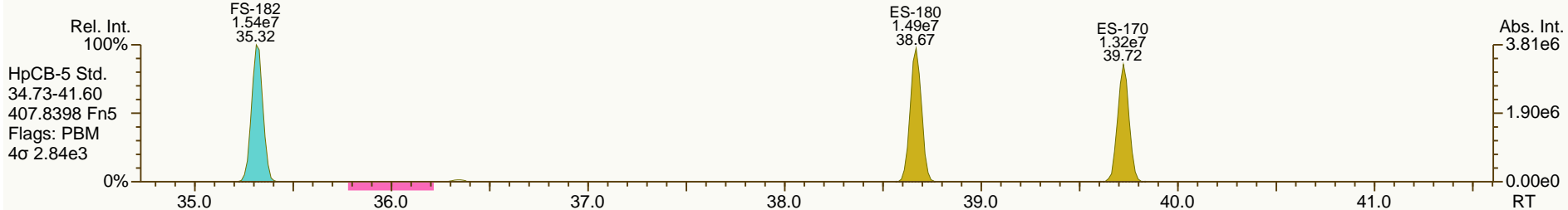
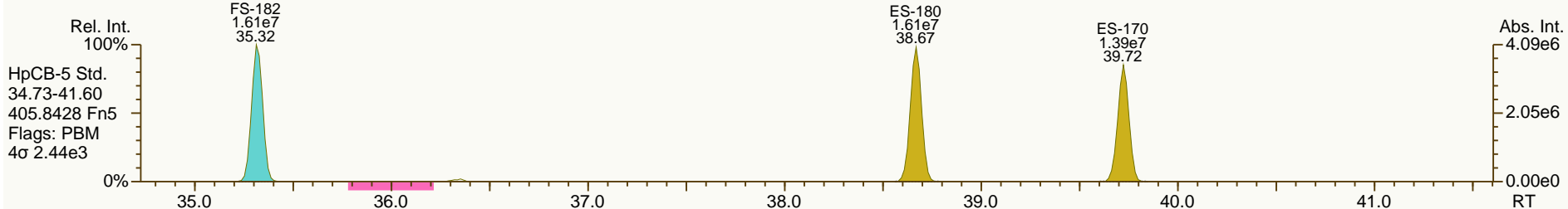
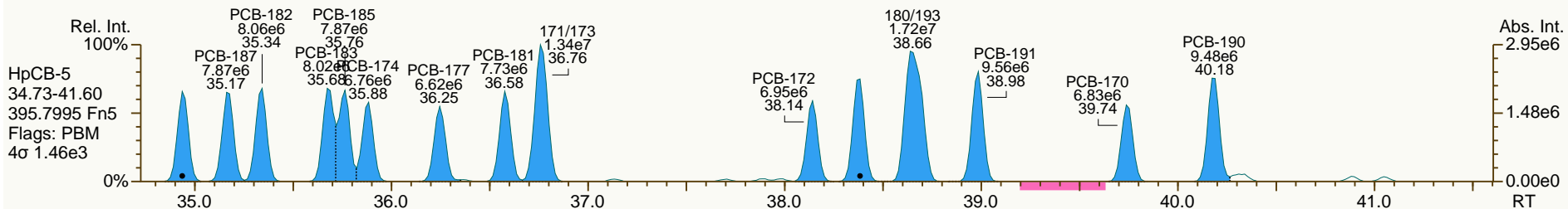
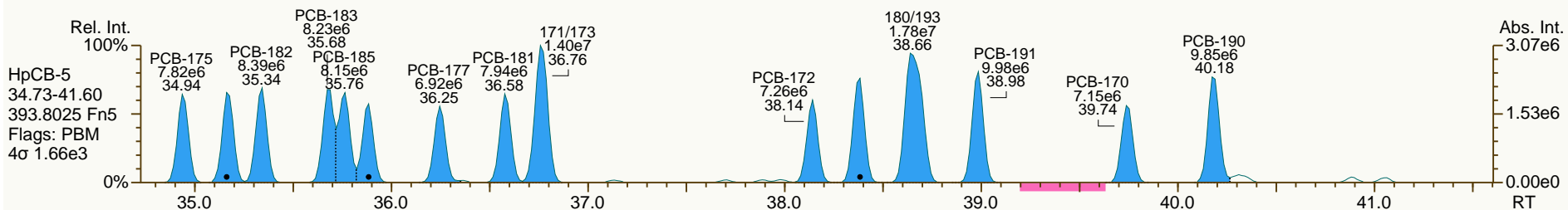
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Sample ID: SIL 13-40-3
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 53

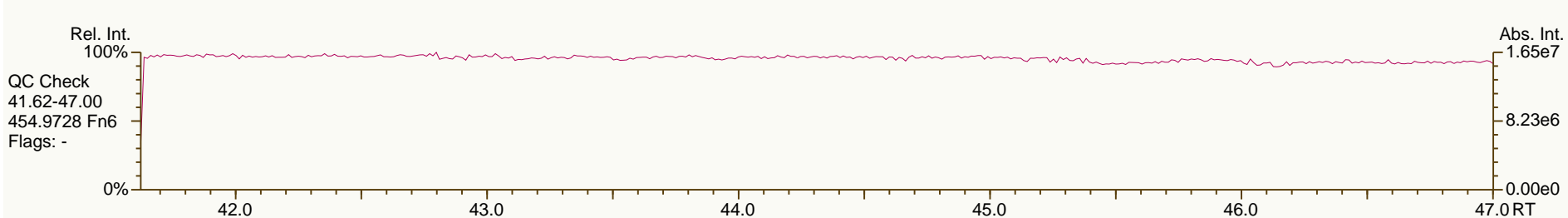
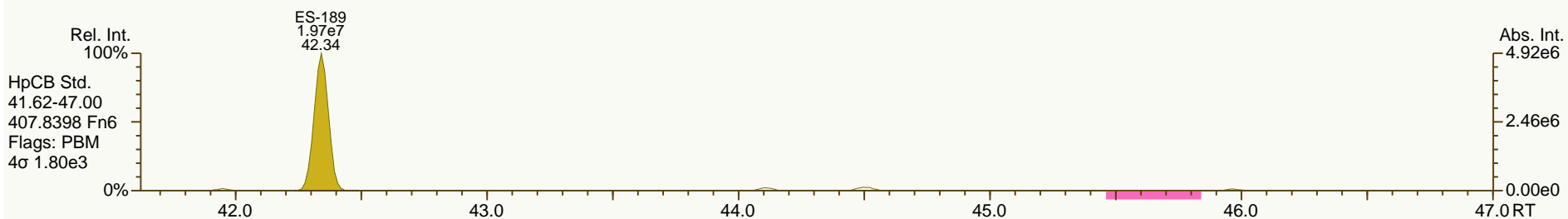
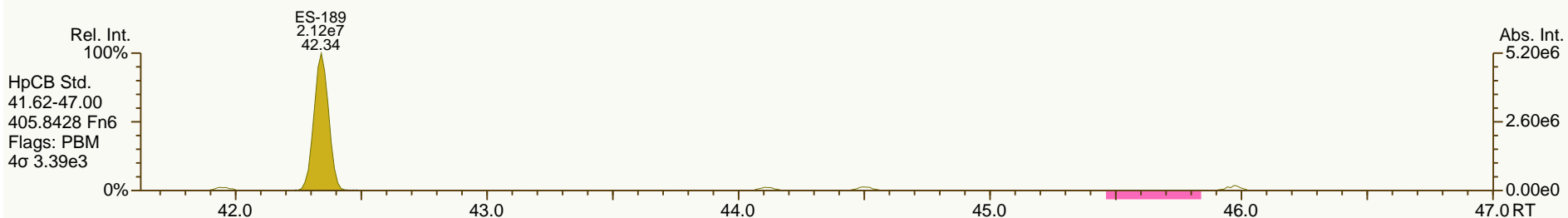
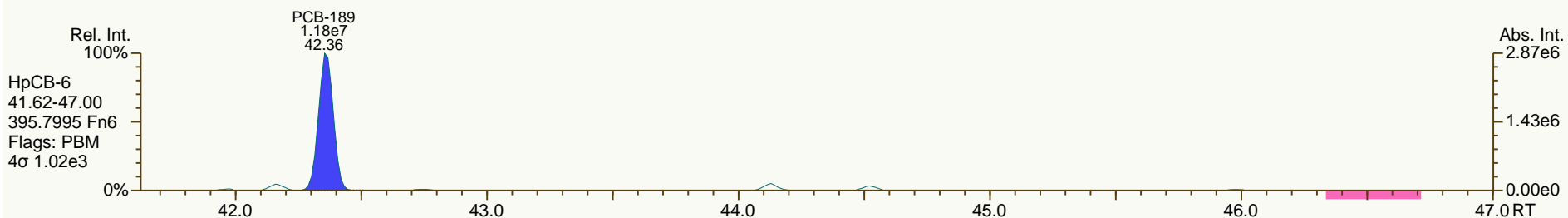
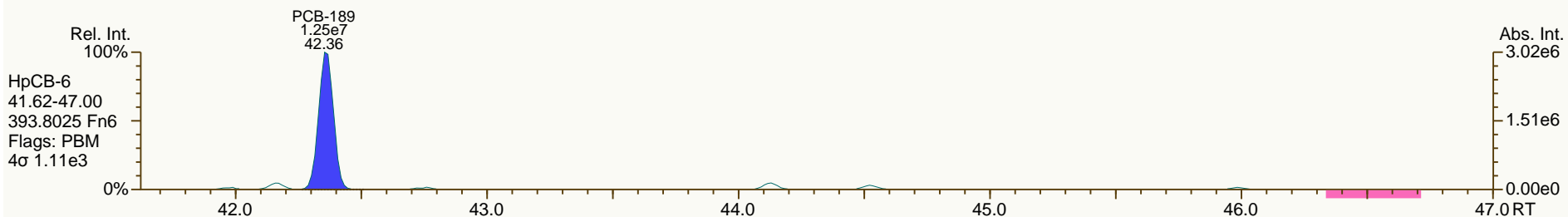
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 User: CTW Datafile: 130911S06



SGS-AP ID: CS3_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-3
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 53

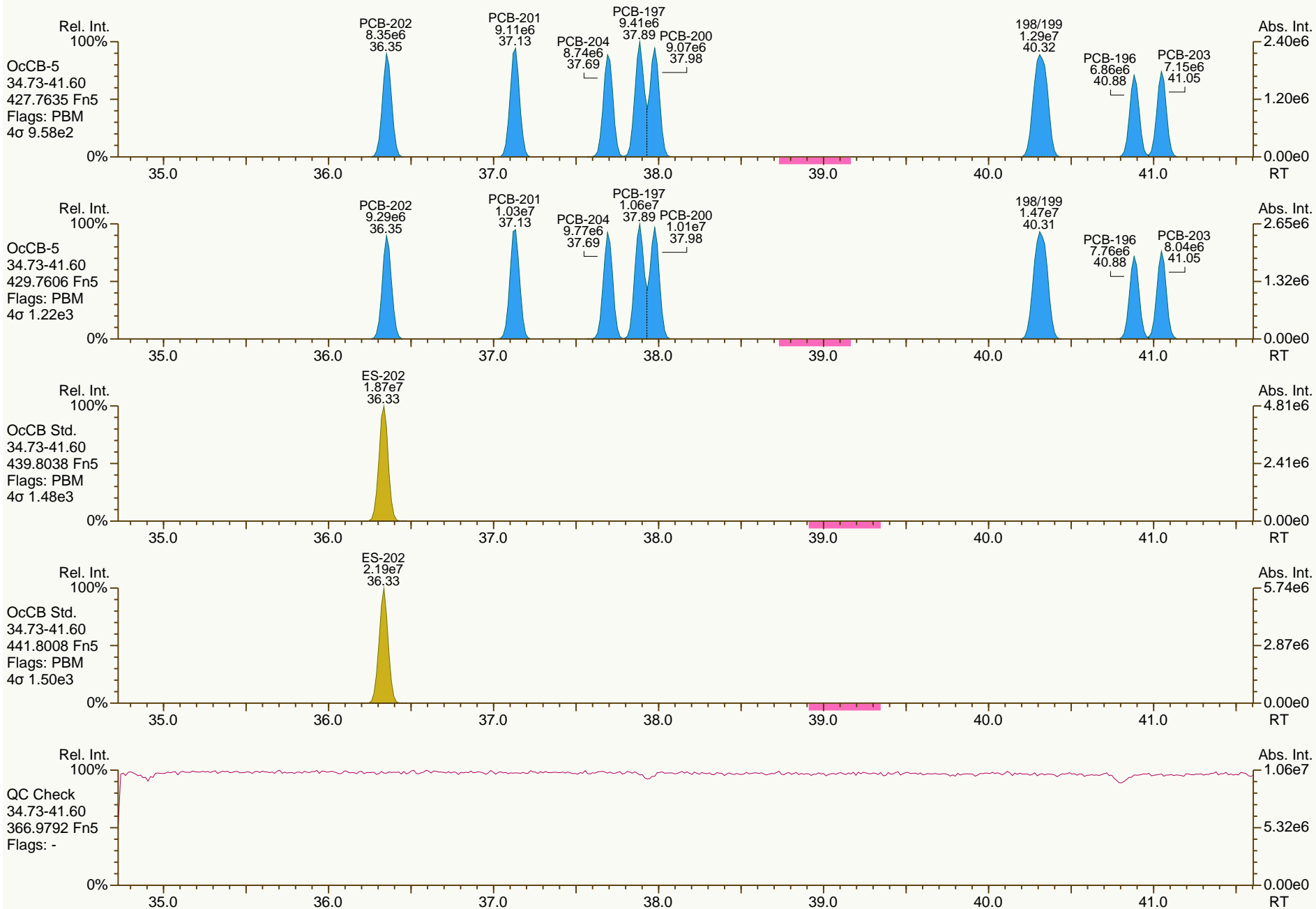
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 User: CTW Datafile: 130911S06



SGS-AP ID: CS3_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-3
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 53

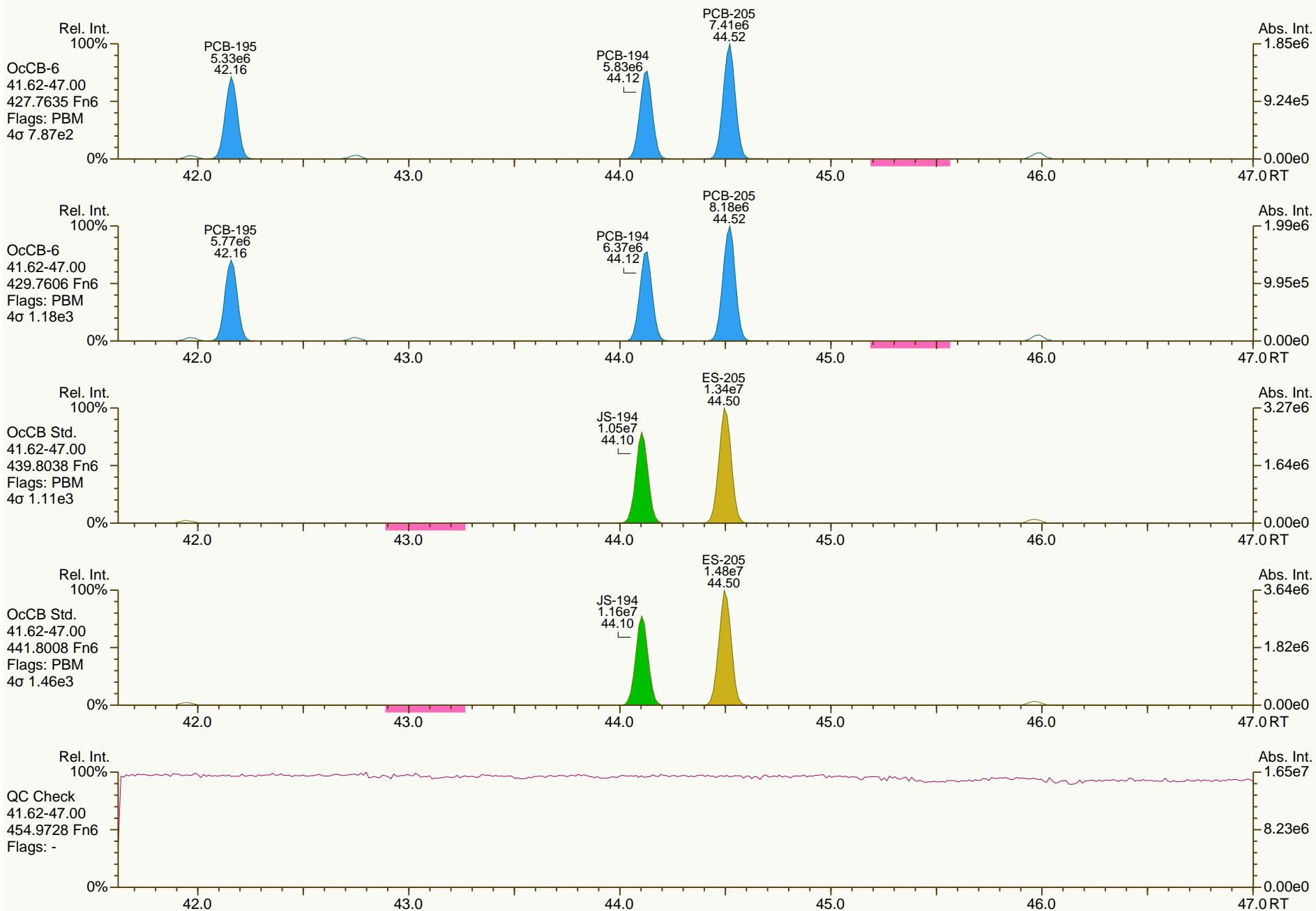
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 User: CTW Datafile: 130911S06



SGS-AP ID: CS3_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-3
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 53

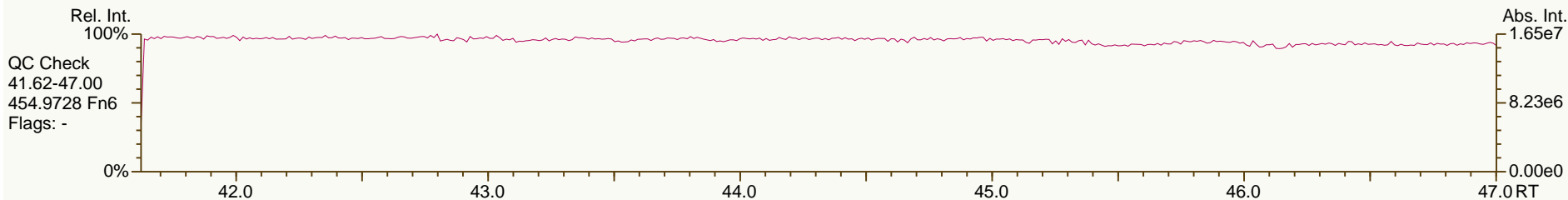
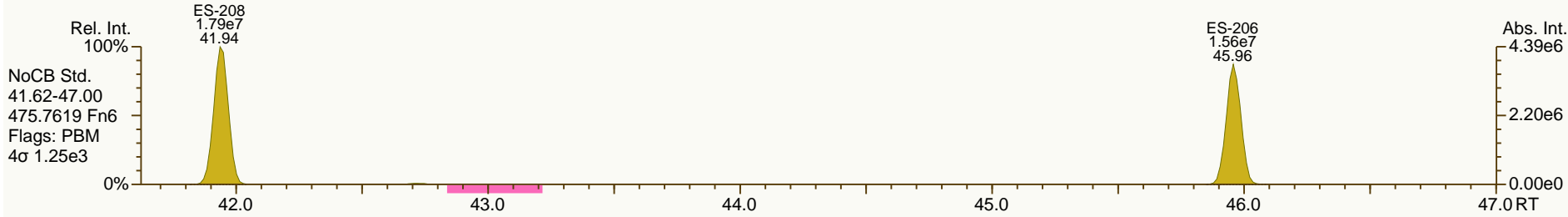
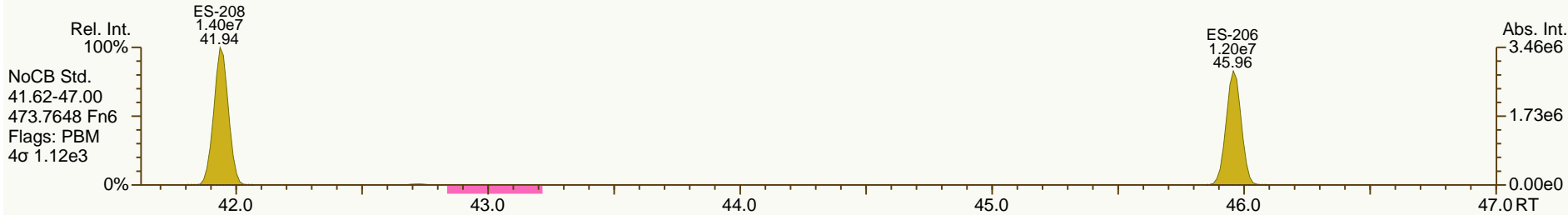
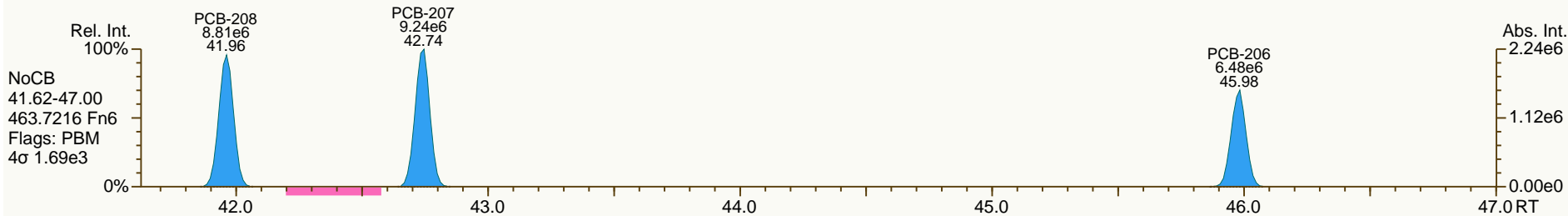
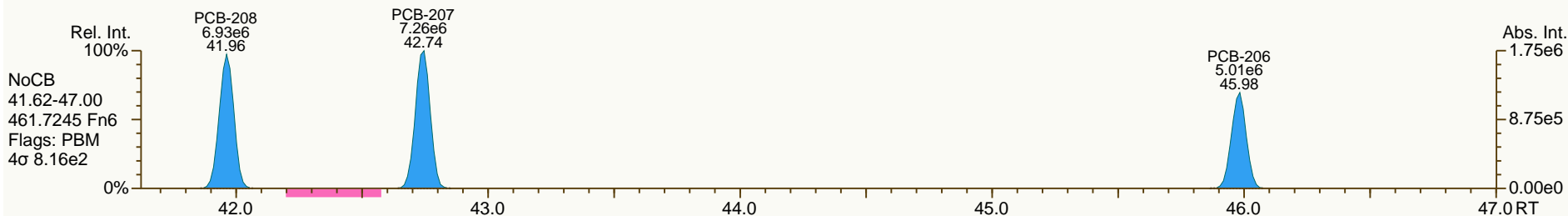
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 User: CTW Datafile: 130911S06



SGS-AP ID: CS3_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-3
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 53

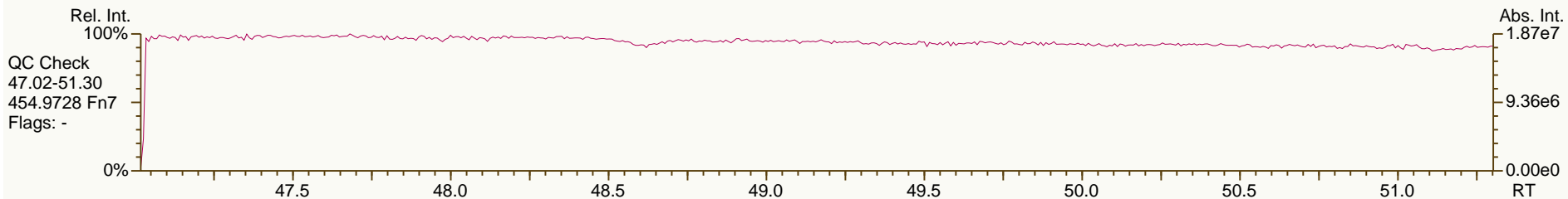
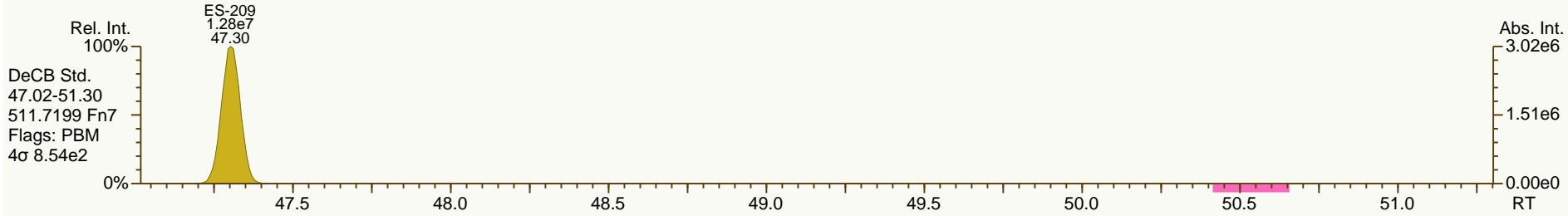
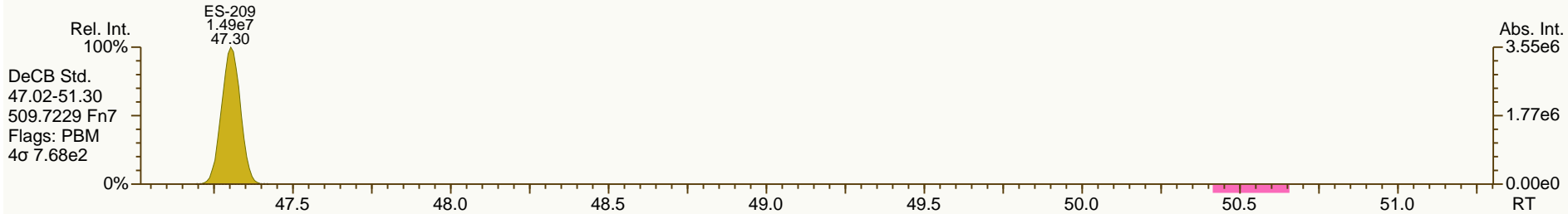
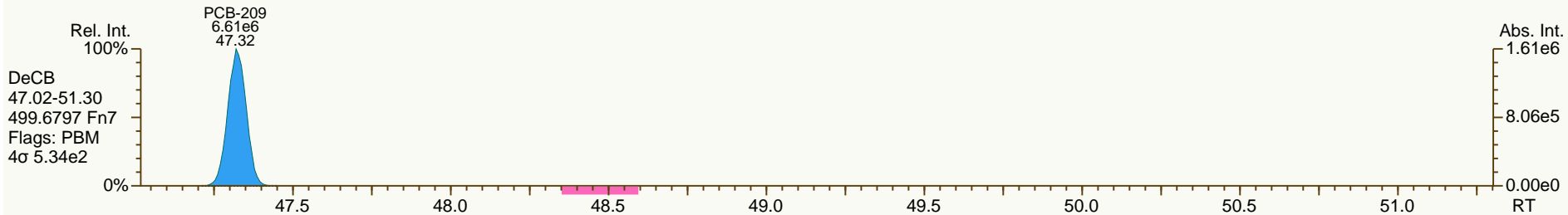
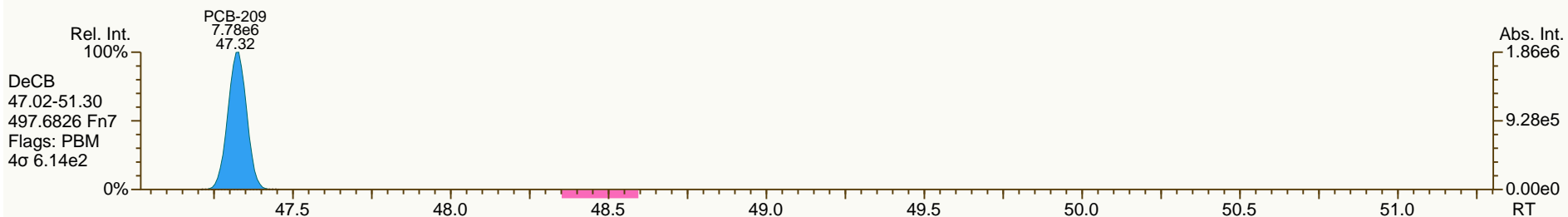
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 User: CTW Datafile: 130911S06



SGS-AP ID: CS3_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-3
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 53

Acq: 11-Sep-2013 16:57:30
 User: CTW Datafile: 130911S06



PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:37			
Lab ID:	CS4_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013						
Acquired:	11-SEP-2013 17:50							
Datafile:	130911S07							
Name	RT	Response	RA	ICAL	RRF	Dev'n		
PCB-77 33'44'-TeCB	29.41	2.97E+08	0.80 Y	1.51	1.60	6.1%		
PCB-81 344'5'-TeCB	28.93	2.89E+08	0.80 Y	1.27	1.39	9.5%		
PCB-105 233'44'-PeCB	32.36	1.84E+08	0.62 Y	1.00	1.08	8.4%		
PCB-114 2344'5'-PeCB	31.82	1.99E+08	0.63 Y	1.06	1.15	8.1%		
PCB-118 23'44'5'-PeCB	31.37	1.89E+08	0.63 Y	1.01	1.09	7.8%		
PCB-123 23'44'5'-PeCB	31.09	1.87E+08	0.62 Y	1.06	1.11	4.7%		
PCB-126 33'44'5'-PeCB	34.96	2.51E+08	0.64 Y	1.26	1.35	7.5%		
PCB-156/157 ...-HxCB	37.49	3.51E+08	1.23 Y	1.06	1.15	8.2%		
PCB-167 23'44'55'-HxCB	36.53	1.88E+08	1.24 Y	1.12	1.21	8.0%		
PCB-169 33'44'55'-HxCB	40.21	1.77E+08	1.28 Y	1.09	1.16	6.6%		
PCB-189 233'44'55'-HpCB	42.34	2.21E+08	1.07 Y	1.15	1.24	7.8%		
PCB-209 DeCB	47.30	1.30E+08	1.18 Y	1.03	1.09	5.4%		
ES PCB-1	9.93	7.56E+07	3.21 Y	1.04	1.04	0.0%		
ES PCB-3	11.86	7.22E+07	3.22 Y	0.99	1.00	0.6%		
ES PCB-4	12.08	5.14E+07	1.57 Y	0.71	0.71	-0.3%		
ES PCB-15	17.20	7.99E+07	1.63 Y	1.09	1.10	1.0%		
ES PCB-19	14.80	4.27E+07	1.04 Y	0.59	0.59	-0.3%		
ES PCB-37	23.20	5.70E+07	1.09 Y	1.32	1.32	0.1%		
ES PCB-54	17.45	5.74E+07	0.79 Y	1.35	1.33	-1.6%		
ES PCB-77	29.39	4.63E+07	0.81 Y	1.07	1.07	0.3%		
ES PCB-81	28.92	5.19E+07	0.80 Y	1.19	1.20	0.9%		
ES PCB-104	22.15	5.24E+07	1.59 Y	1.62	1.54	-4.8%		
ES PCB-105	32.34	4.26E+07	1.57 Y	1.30	1.26	-3.5%		
ES PCB-114	31.79	4.33E+07	1.56 Y	1.32	1.27	-3.3%		
ES PCB-118	31.35	4.34E+07	1.56 Y	1.30	1.28	-1.8%		
ES PCB-123	31.07	4.21E+07	1.55 Y	1.26	1.24	-1.7%		
ES PCB-126	34.94	4.64E+07	1.62 Y	1.41	1.37	-2.8%		
ES PCB-153	32.93	3.63E+07	1.28 Y	1.15	1.14	-1.1%		
ES PCB-155	26.97	4.87E+07	1.28 Y	1.53	1.53	-0.2%		
ES PCB-156/157	37.48	7.62E+07	1.23 Y	1.19	1.20	0.8%		
ES PCB-167	36.51	3.91E+07	1.23 Y	1.22	1.23	0.2%		
ES PCB-169	40.19	3.83E+07	1.27 Y	1.18	1.20	1.7%		
ES PCB-170	39.70	2.95E+07	1.05 Y	1.22	1.21	-1.1%		
ES PCB-180	38.64	3.38E+07	1.05 Y	1.41	1.38	-1.7%		
ES PCB-188	31.79	5.44E+07	1.07 Y	1.71	1.71	0.2%		
ES PCB-189	42.32	4.45E+07	1.06 Y	1.84	1.82	-1.0%		
ES PCB-202	36.31	4.54E+07	0.90 Y	1.42	1.42	0.6%		
ES PCB-205	44.48	3.02E+07	0.91 Y	1.25	1.24	-1.5%		
ES PCB-206	45.94	2.96E+07	0.77 Y	1.24	1.21	-2.0%		
ES PCB-208	41.92	3.39E+07	0.79 Y	1.42	1.39	-2.3%		
ES PCB-209	47.28	2.98E+07	1.18 Y	1.23	1.22	-1.3%		

PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:37		
Lab ID:	CS4_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 17:50						
Datafile:	130911S07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	19.79	6.04E+07	1.08 Y	1.06	1.06	-0.4%	
SS PCB-111	29.43	4.36E+07	1.54 Y	1.06	1.04	-2.3%	
SS PCB-178	34.36	3.07E+07	1.08 Y	0.58	0.56	-3.1%	
CS PCB-28	19.79	6.04E+07	1.08 Y	1.40	1.40	-0.2%	
CS PCB-111	29.43	4.36E+07	1.54 Y	1.34	1.28	-3.9%	
CS PCB-178	34.36	3.07E+07	1.08 Y	0.99	0.96	-2.9%	
JS PCB-9	13.82	7.26E+07	1.61 Y	-	-	-	
JS PCB-52	21.35	4.32E+07	0.77 Y	-	-	-	
JS PCB-101	27.16	3.39E+07	1.56 Y	-	-	-	
JS PCB-138	33.97	3.18E+07	1.24 Y	-	-	-	
JS PCB-194	44.08	2.44E+07	0.89 Y	-	-	-	
PCB-1 2-MoCB	9.94	3.85E+08	3.19 Y	1.20	1.27	6.5%	
PCB-3 4-MoCB	11.88	3.78E+08	3.20 Y	1.24	1.31	5.8%	
PCB-4 22'-DiCB	12.09	2.09E+08	1.55 Y	0.97	1.02	4.8%	
PCB-15 44'-DiCB	17.21	4.11E+08	1.60 Y	1.23	1.29	4.7%	
PCB-19 22'6'-TrCB	14.81	1.76E+08	1.04 Y	0.97	1.03	6.4%	
PCB-37 344'-TrCB	23.22	3.19E+08	1.06 Y	1.28	1.40	8.9%	
PCB-54 22'66'-TeCB	17.47	2.45E+08	0.78 Y	1.00	1.07	6.7%	
PCB-104 22'466'-PeCB	22.17	2.36E+08	0.63 Y	1.06	1.13	6.6%	
PCB-153/168 ...-HxCB	32.97	3.87E+08	1.25 Y	1.26	1.33	6.0%	
PCB-155 22'44'66'-HxCB	26.99	2.35E+08	1.26 Y	1.12	1.21	7.3%	
PCB-170 22'33'44'5'-HpCB	39.72	1.27E+08	1.03 Y	1.01	1.07	6.5%	
PCB-180/193 ...-HpCB	38.64	3.21E+08	1.04 Y	1.11	1.19	6.8%	
PCB-188 22'34'566'-HpCB	31.81	2.22E+08	1.03 Y	0.97	1.02	5.2%	
PCB-202 22'33'55'66'-OcCB	36.33	1.60E+08	0.89 Y	0.83	0.88	6.1%	
PCB-205 233'44'55'6'-OcCB	44.50	1.41E+08	0.89 Y	1.08	1.17	8.0%	
PCB-208 22'33'455'66'-NoCB	41.94	1.42E+08	0.79 Y	0.99	1.05	5.8%	
PCB-206 22'33'44'55'6'-NoCB	45.96	1.04E+08	0.78 Y	0.83	0.88	6.1%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:37			
Lab ID:	CS4_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 17:50						
Datafile:	130911S07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	9.94	3.85E+08	3.19 Y	1.20	1.27	6.5%	
PCB-2 3-MoCB	11.72	3.82E+08	3.21 Y	1.25	1.32	6.0%	
PCB-3 4-MoCB	11.88	3.78E+08	3.20 Y	1.24	1.31	5.8%	
PCB-4 22'-DiCB	12.09	2.09E+08	1.55 Y	0.97	1.02	4.8%	
PCB-10 26'-DiCB	12.25	3.25E+08	1.56 Y	1.51	1.58	4.6%	
PCB-9 25'-DiCB	13.83	3.49E+08	1.60 Y	1.06	1.09	3.2%	
PCB-7 24'-DiCB	13.97	4.01E+08	1.58 Y	1.23	1.26	2.0%	
PCB-6 23'-DiCB	14.18	3.75E+08	1.58 Y	1.14	1.18	3.3%	
PCB-5 23'-DiCB	14.45	3.74E+08	1.57 Y	1.15	1.17	1.9%	
PCB-8 24'-DiCB	14.56	3.82E+08	1.56 Y	1.18	1.20	1.8%	
PCB-14 35'-DiCB	15.96	4.43E+08	1.60 Y	1.31	1.39	5.8%	
PCB-11 33'-DiCB	16.68	3.83E+08	1.57 Y	1.17	1.20	2.5%	
PCB-13/12 34'/34'-DiCB	16.95	7.88E+08	1.59 Y	1.17	1.23	5.8%	
PCB-15 44'-DiCB	17.21	4.11E+08	1.60 Y	1.23	1.29	4.7%	
PCB-19 22'6'-TrCB	14.81	1.76E+08	1.04 Y	0.97	1.03	6.4%	
PCB-30/18 246'/22'5'-TrCB	16.41	4.62E+08	1.04 Y	1.23	1.35	9.4%	
PCB-17 22'4'-TrCB	16.78	1.96E+08	1.03 Y	1.06	1.15	8.5%	
PCB-27 23'6'-TrCB	16.97	2.74E+08	1.03 Y	1.44	1.60	11.4%	
PCB-24 236'-TrCB	17.08	2.59E+08	1.03 Y	1.37	1.52	10.8%	
PCB-16 22'3'-TrCB	17.17	1.50E+08	1.04 Y	0.80	0.88	9.4%	
PCB-32 24'6'-TrCB	17.62	2.87E+08	1.04 Y	1.59	1.68	5.6%	
PCB-34 23'5'-TrCB	18.70	3.09E+08	1.06 Y	1.26	1.35	7.0%	
PCB-23 235'-TrCB	18.83	3.21E+08	1.08 Y	1.31	1.41	7.5%	
PCB-26/29 23'5'/245'-TrCB	19.10	6.51E+08	1.07 Y	1.33	1.43	7.1%	
PCB-25 23'4'-TrCB	19.29	3.29E+08	1.05 Y	1.33	1.44	8.5%	
PCB-31 24'5'-TrCB	19.56	3.38E+08	1.06 Y	1.39	1.48	7.1%	
PCB-28/20 244'/233'-TrCB	19.82	6.38E+08	1.06 Y	1.30	1.40	7.6%	
PCB-21/33 234'/23'4'-TrCB	19.99	6.70E+08	1.07 Y	1.34	1.47	9.5%	
PCB-22 234'-TrCB	20.35	3.02E+08	1.07 Y	1.22	1.32	8.8%	
PCB-36 33'5'-TrCB	21.68	3.33E+08	1.06 Y	1.35	1.46	8.1%	
PCB-39 34'5'-TrCB	21.98	3.47E+08	1.06 Y	1.40	1.52	8.9%	
PCB-38 345'-TrCB	22.48	3.17E+08	1.06 Y	1.25	1.39	11.0%	
PCB-35 33'4'-TrCB	22.87	3.05E+08	1.05 Y	1.23	1.34	8.7%	
PCB-37 344'-TrCB	23.22	3.19E+08	1.06 Y	1.28	1.40	8.9%	
PCB-54 22'66'-TeCB	17.47	2.45E+08	0.78 Y	1.00	1.07	6.7%	
PCB-50/53 22'46'/22'56'-TeCB	19.33	3.61E+08	0.77 Y	0.82	0.87	6.6%	
PCB-45 22'36'-TeCB	19.89	1.62E+08	0.77 Y	0.73	0.78	6.9%	
PCB-51 22'46'-TeCB	19.96	1.81E+08	0.78 Y	0.79	0.87	9.9%	
PCB-46 22'36'-TeCB	20.16	1.46E+08	0.77 Y	0.66	0.70	6.5%	
PCB-52 22'55'-TeCB	21.37	1.73E+08	0.77 Y	0.79	0.83	5.4%	
PCB-73 23'5'6'-TeCB	21.49	2.43E+08	0.77 Y	1.06	1.17	10.4%	
PCB-43 22'35'-TeCB	21.58	1.34E+08	0.78 Y	0.64	0.65	0.8%	
PCB-69/49 23'46'/22'45'-TeCB	21.76	4.23E+08	0.78 Y	0.95	1.02	7.6%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:37			
Lab ID:	CS4_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 17:50						
Datafile:	130911S07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.02	1.75E+08	0.78 Y	0.79	0.84	7.5%	
PCB-44/47/65 ...-TeCB	22.23	5.60E+08	0.78 Y	0.84	0.90	6.9%	
PCB-59/62/75 ...-TeCB	22.50	7.33E+08	0.78 Y	1.07	1.18	9.7%	
PCB-42 22'34'-TeCB	22.66	1.58E+08	0.78 Y	0.72	0.76	5.6%	
PCB-41 22'34'-TeCB	22.98	1.49E+08	0.77 Y	0.66	0.72	9.4%	
PCB-71/40 23'4'6/22'33'-TeCB	23.08	3.51E+08	0.78 Y	0.79	0.85	6.6%	
PCB-64 23'4'6'-TeCB	23.27	2.53E+08	0.77 Y	1.13	1.22	7.6%	
PCB-72 23'55'-TeCB	23.98	2.92E+08	0.79 Y	1.31	1.41	7.6%	
PCB-68 23'45'-TeCB	24.23	3.20E+08	0.79 Y	1.43	1.54	8.0%	
PCB-57 23'35'-TeCB	24.58	2.81E+08	0.80 Y	1.26	1.35	7.4%	
PCB-58 23'35'-TeCB	24.78	2.96E+08	0.80 Y	1.30	1.43	9.5%	
PCB-67 23'45'-TeCB	24.93	3.03E+08	0.78 Y	1.35	1.46	8.3%	
PCB-63 23'45'-TeCB	25.15	3.19E+08	0.79 Y	1.42	1.54	8.2%	
PCB-61/70/74/76 ...-TeCB	25.43	1.19E+09	0.78 Y	1.32	1.43	8.6%	
PCB-66 23'44'-TeCB	25.71	2.80E+08	0.79 Y	1.26	1.35	6.9%	
PCB-55 23'34'-TeCB	25.85	2.78E+08	0.80 Y	1.24	1.34	8.4%	
PCB-56 23'34'-TeCB	26.27	2.73E+08	0.80 Y	1.22	1.31	7.3%	
PCB-60 23'44'-TeCB	26.45	2.87E+08	0.80 Y	1.29	1.38	7.3%	
PCB-80 33'55'-TeCB	26.81	3.22E+08	0.80 Y	1.42	1.55	9.3%	
PCB-79 33'45'-TeCB	28.10	3.34E+08	0.80 Y	1.47	1.61	9.5%	
PCB-78 33'45'-TeCB	28.56	2.71E+08	0.79 Y	1.23	1.30	5.7%	
PCB-104 22'466'-PeCB	22.17	2.36E+08	0.63 Y	1.06	1.13	6.6%	
PCB-96 22'366'-PeCB	22.48	2.09E+08	0.62 Y	0.90	1.00	10.5%	
PCB-103 22'45'6'-PeCB	24.13	1.50E+08	0.61 Y	0.84	0.89	6.2%	
PCB-94 22'356'-PeCB	24.32	1.29E+08	0.61 Y	0.73	0.77	5.5%	
PCB-95 22'35'6'-PeCB	24.69	1.38E+08	0.63 Y	0.78	0.82	5.5%	
PCB-100/93 22'44'6/22'356'-PeCB	24.88	2.86E+08	0.62 Y	0.77	0.85	9.7%	
PCB-102 22'456'-PeCB	25.00	1.42E+08	0.62 Y	0.83	0.84	1.0%	
PCB-98 22'34'6'-PeCB	25.06	1.38E+08	0.64 Y	0.75	0.82	9.4%	
PCB-88 22'346'-PeCB	25.34	1.31E+08	0.62 Y	0.74	0.78	4.9%	
PCB-91 22'34'6'-PeCB	25.42	1.55E+08	0.63 Y	0.83	0.92	11.0%	
PCB-84 22'33'6'-PeCB	25.61	1.17E+08	0.62 Y	0.66	0.70	5.3%	
PCB-89 22'346'-PeCB	26.01	1.25E+08	0.62 Y	0.69	0.74	7.3%	
PCB-121 23'45'6'-PeCB	26.37	1.89E+08	0.61 Y	1.06	1.13	6.3%	
PCB-92 22'355'-PeCB	26.69	1.33E+08	0.61 Y	0.73	0.79	7.9%	
PCB-113/90/101 ...-PeCB	27.16	4.69E+08	0.63 Y	0.85	0.93	8.8%	
PCB-83 22'33'5'-PeCB	27.58	1.19E+08	0.63 Y	0.65	0.71	9.7%	
PCB-99 22'44'5'-PeCB	27.67	1.45E+08	0.63 Y	0.84	0.86	2.3%	
PCB-112 233'56'-PeCB	27.77	1.82E+08	0.63 Y	1.00	1.08	8.3%	
PCB-109/119/86/97/125...-PeCB	28.11	9.55E+08	0.62 Y	0.87	0.94	8.5%	
PCB-117 234'56'-PeCB	28.63	1.76E+08	0.62 Y	0.88	1.05	19.2%	
PCB-116/85 23456/22'344'-PeCB	28.70	3.18E+08	0.63 Y	0.91	0.94	3.2%	
PCB-110 233'4'6'-PeCB	28.84	1.68E+08	0.61 Y	0.99	1.00	1.2%	

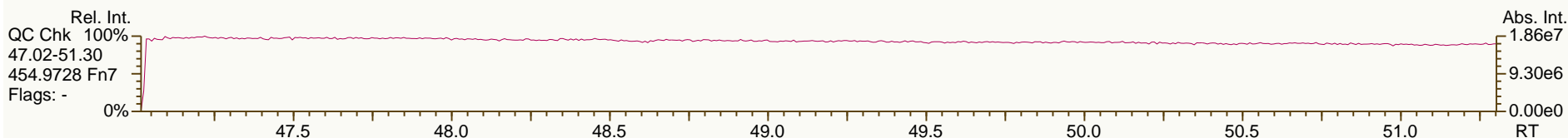
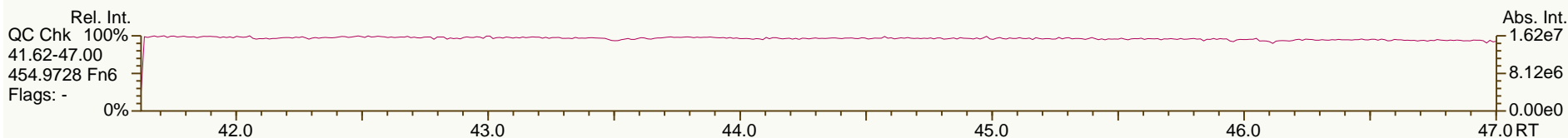
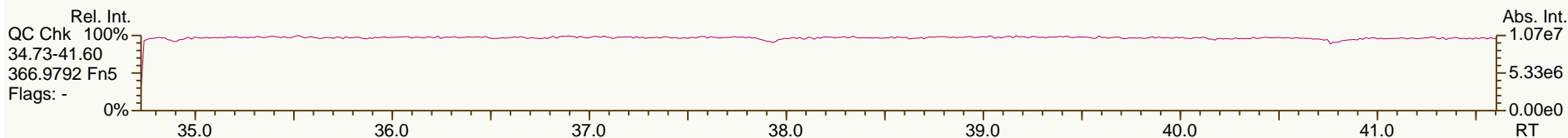
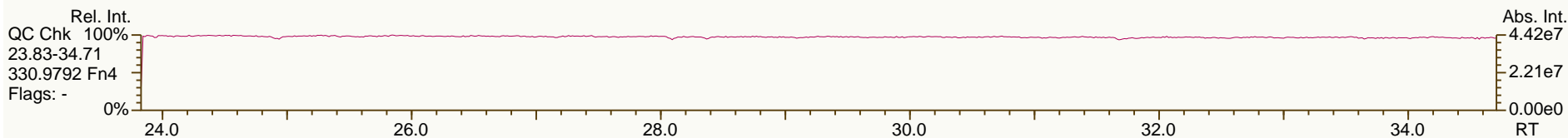
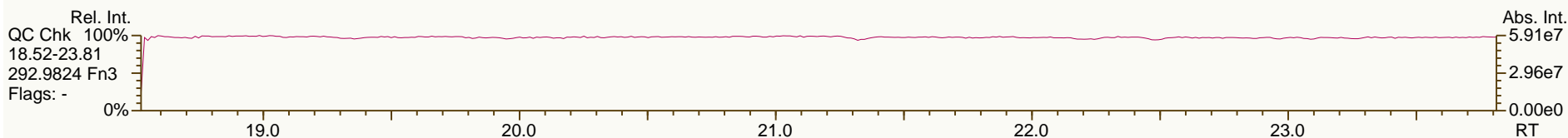
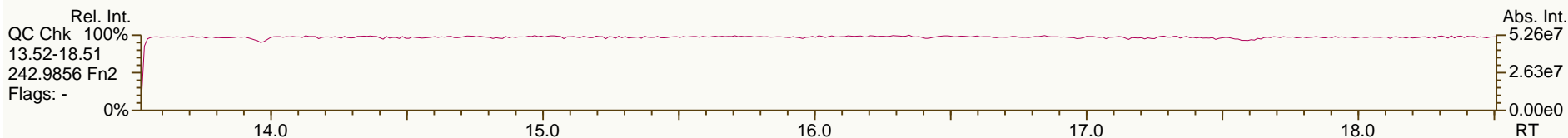
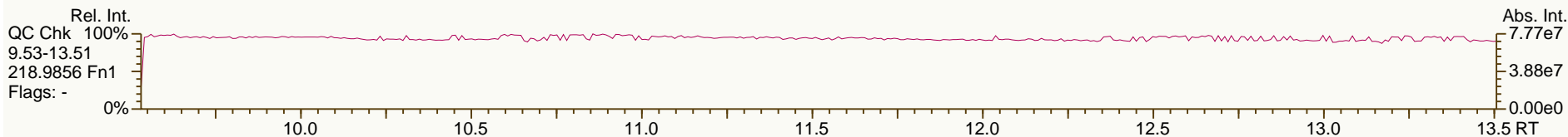
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Lab ID:	CS4_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 17:50						
Datafile:	130911S07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6'-PeCB	28.91	1.91E+08	0.62 Y	1.01	1.13	12.1%	
PCB-82 22'33'4'-PeCB	29.11	1.15E+08	0.63 Y	0.62	0.68	9.0%	
PCB-111 233'55'-PeCB	29.45	1.93E+08	0.63 Y	1.07	1.15	7.2%	
PCB-120 23'455'-PeCB	29.84	1.94E+08	0.63 Y	1.07	1.15	7.5%	
PCB-108/124 ...-PeCB	30.79	3.54E+08	0.61 Y	0.98	1.05	6.7%	
PCB-107 233'4'5'-PeCB	30.99	1.98E+08	0.62 Y	1.07	1.17	9.9%	
PCB-106 233'45'-PeCB	31.19	1.84E+08	0.61 Y	1.00	1.09	9.5%	
PCB-122 233'4'5'-PeCB	31.66	1.67E+08	0.63 Y	0.89	0.97	8.5%	
PCB-127 33'455'-PeCB	33.60	1.83E+08	0.61 Y	0.98	1.07	9.1%	
PCB-155 22'44'66'-HxCB	26.99	2.35E+08	1.26 Y	1.12	1.21	7.3%	
PCB-152 22'3566'-HxCB	27.15	2.25E+08	1.26 Y	1.05	1.15	9.8%	
PCB-150 22'34'66'-HxCB	27.29	2.19E+08	1.25 Y	1.07	1.12	5.4%	
PCB-136 22'33'66'-HxCB	27.60	2.06E+08	1.26 Y	0.99	1.06	6.9%	
PCB-145 22'3466'-HxCB	27.85	2.09E+08	1.26 Y	1.00	1.07	7.5%	
PCB-148 22'34'56'-HxCB	29.13	1.60E+08	1.26 Y	1.03	1.11	7.7%	
PCB-151/135 ...-HxCB	29.64	3.07E+08	1.26 Y	1.00	1.06	5.7%	
PCB-154 22'44'56'-HxCB	29.84	1.78E+08	1.26 Y	1.13	1.23	9.2%	
PCB-144 22'345'6'-HxCB	30.10	1.58E+08	1.25 Y	1.03	1.09	6.0%	
PCB-147/149 ...-HxCB	30.40	3.19E+08	1.26 Y	1.03	1.10	7.1%	
PCB-134 22'33'56'-HxCB	30.57	1.35E+08	1.24 Y	0.84	0.93	11.0%	
PCB-143 22'3456'-HxCB	30.65	1.45E+08	1.26 Y	0.95	1.00	5.3%	
PCB-139/140 ...-HxCB	30.91	3.27E+08	1.25 Y	1.05	1.13	7.4%	
PCB-131 22'33'46'-HxCB	31.08	1.39E+08	1.25 Y	0.87	0.96	9.8%	
PCB-142 22'3456'-HxCB	31.20	1.42E+08	1.25 Y	0.91	0.98	7.5%	
PCB-132 22'33'46'-HxCB	31.46	1.43E+08	1.26 Y	0.92	0.99	7.3%	
PCB-133 22'33'55'-HxCB	31.89	1.49E+08	1.26 Y	0.97	1.03	6.5%	
PCB-165 233'55'6'-HxCB	32.22	1.84E+08	1.25 Y	1.19	1.27	6.1%	
PCB-146 22'34'55'-HxCB	32.43	1.68E+08	1.24 Y	1.08	1.16	7.1%	
PCB-161 233'45'6'-HxCB	32.54	2.04E+08	1.27 Y	1.34	1.41	4.7%	
PCB-153/168 ...-HxCB	32.97	3.87E+08	1.25 Y	1.26	1.33	6.0%	
PCB-141 22'3455'-HxCB	33.11	1.53E+08	1.24 Y	0.98	1.06	7.8%	
PCB-130 22'33'45'-HxCB	33.45	1.34E+08	1.25 Y	0.88	0.92	5.4%	
PCB-137 22'344'5'-HxCB	33.64	1.69E+08	1.25 Y	1.07	1.17	8.9%	
PCB-164 233'4'5'6'-HxCB	33.74	1.93E+08	1.26 Y	1.29	1.33	3.3%	
PCB-163/138/129 ...-HxCB	34.02	5.00E+08	1.25 Y	1.05	1.15	9.7%	
PCB-160 233'456'-HxCB	34.13	1.91E+08	1.26 Y	1.26	1.31	4.6%	
PCB-158 233'44'6'-HxCB	34.33	2.18E+08	1.26 Y	1.40	1.50	7.4%	
PCB-128/166 ...-HxCB	35.05	3.01E+08	1.26 Y	0.89	0.96	8.9%	
PCB-159 233'455'-HxCB	35.89	1.77E+08	1.26 Y	1.04	1.14	9.1%	
PCB-162 233'4'55'-HxCB	36.13	1.76E+08	1.26 Y	1.04	1.12	8.2%	
PCB-188 22'34'566'-HpCB	31.81	2.22E+08	1.03 Y	0.97	1.02	5.2%	
PCB-179 22'33'566'-HpCB	32.09	2.04E+08	1.04 Y	0.89	0.94	4.7%	
PCB-184 22'344'66'-HpCB	32.54	2.02E+08	1.06 Y	0.87	0.93	6.5%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:37			
Lab ID:	CS4_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 17:50						
Datafile:	130911S07						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	32.84	2.22E+08	1.06 Y	0.97	1.02	5.8%	
PCB-186 22'34566'-HpCB	33.22	2.12E+08	1.06 Y	0.93	0.97	4.1%	
PCB-178 22'33'55'6'-HpCB	34.38	1.53E+08	1.04 Y	0.67	0.70	4.5%	
PCB-175 22'33'45'6'-HpCB	34.92	1.42E+08	1.05 Y	0.97	1.05	7.4%	
PCB-187 22'34'55'6'-HpCB	35.14	1.47E+08	1.03 Y	1.02	1.09	6.8%	
PCB-182 22'344'56'-HpCB	35.31	1.50E+08	1.03 Y	1.05	1.11	5.6%	
PCB-183 22'344'5'6'-HpCB	35.66	1.62E+08	1.04 Y	1.07	1.20	12.1%	
PCB-185 22'3455'6'-HpCB	35.74	1.31E+08	1.05 Y	0.96	0.97	1.4%	
PCB-174 22'33'456'-HpCB	35.85	1.28E+08	1.04 Y	0.86	0.95	10.7%	
PCB-177 22'33'45'6'-HpCB	36.22	1.23E+08	1.03 Y	0.83	0.91	9.3%	
PCB-181 22'344'56'-HpCB	36.56	1.45E+08	1.03 Y	1.00	1.07	7.6%	
PCB-171/173 ...-HpCB	36.74	2.53E+08	1.03 Y	0.86	0.93	8.1%	
PCB-172 22'33'455'-HpCB	38.12	1.29E+08	1.04 Y	0.87	0.96	9.6%	
PCB-192 233'455'6'-HpCB	38.35	1.72E+08	1.04 Y	1.19	1.27	7.0%	
PCB-180/193 ...-HpCB	38.64	3.21E+08	1.04 Y	1.11	1.19	6.8%	
PCB-191 233'44'5'6'-HpCB	38.96	1.78E+08	1.04 Y	1.23	1.32	6.6%	
PCB-170 22'33'44'5'-HpCB	39.72	1.27E+08	1.03 Y	1.01	1.07	6.5%	
PCB-190 233'44'56'-HpCB	40.16	1.77E+08	1.03 Y	1.42	1.49	5.5%	
PCB-202 22'33'55'66'-OcCB	36.33	1.60E+08	0.89 Y	0.83	0.88	6.1%	
PCB-201 22'33'45'66'-OcCB	37.10	1.79E+08	0.89 Y	0.94	0.99	4.6%	
PCB-204 22'344'566'-OcCB	37.67	1.70E+08	0.89 Y	0.87	0.94	7.5%	
PCB-197 22'33'44'66'-OcCB	37.86	1.76E+08	0.89 Y	0.97	0.97	-0.6%	
PCB-200 22'33'4566'-OcCB	37.95	1.82E+08	0.89 Y	0.89	1.00	12.7%	
PCB-198/199 ...-OcCB	40.29	2.52E+08	0.88 Y	0.66	0.69	6.1%	
PCB-196 22'33'44'56'-OcCB	40.86	1.32E+08	0.89 Y	0.70	0.73	3.6%	
PCB-203 22'344'55'6'-OcCB	41.03	1.38E+08	0.89 Y	0.74	0.76	3.2%	
PCB-195 22'33'44'56'-OcCB	42.14	1.01E+08	0.91 Y	0.78	0.84	7.6%	
PCB-194 22'33'44'55'-OcCB	44.10	1.10E+08	0.89 Y	0.85	0.91	7.8%	
PCB-205 233'44'55'6'-OcCB	44.50	1.41E+08	0.89 Y	1.08	1.17	8.0%	
PCB-208 22'33'455'66'-NoCB	41.94	1.42E+08	0.79 Y	0.99	1.05	5.8%	
PCB-207 22'33'44'566'-NoCB	42.72	1.49E+08	0.79 Y	1.03	1.10	7.0%	
PCB-206 22'33'44'55'6'-NoCB	45.96	1.04E+08	0.78 Y	0.83	0.88	6.1%	

SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

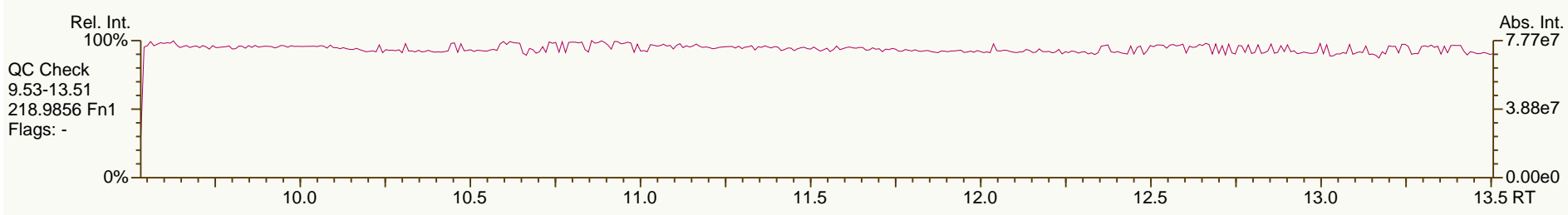
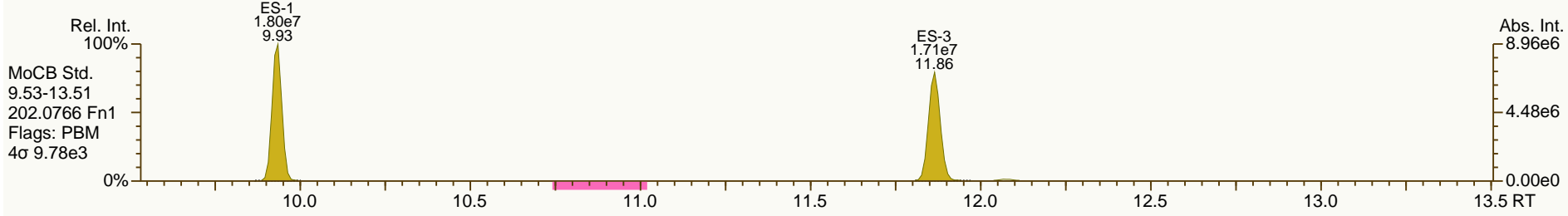
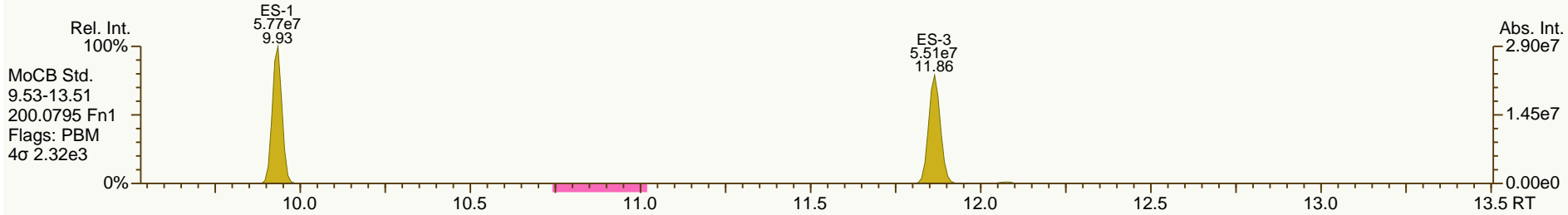
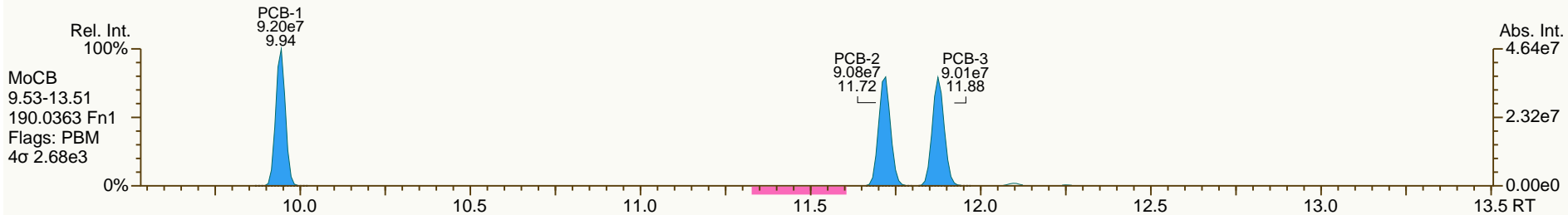
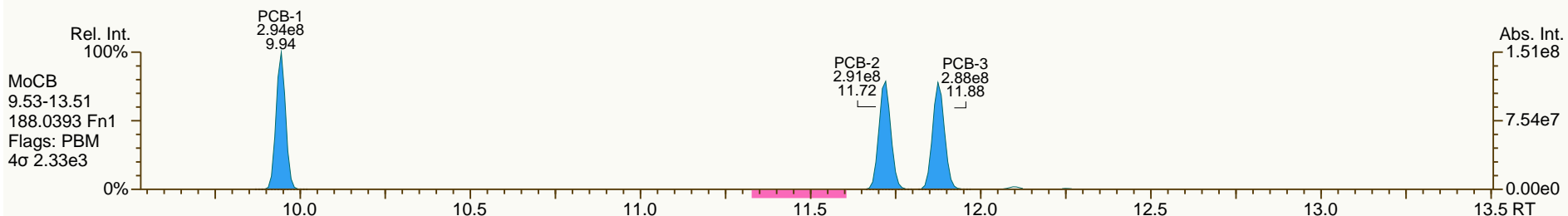
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

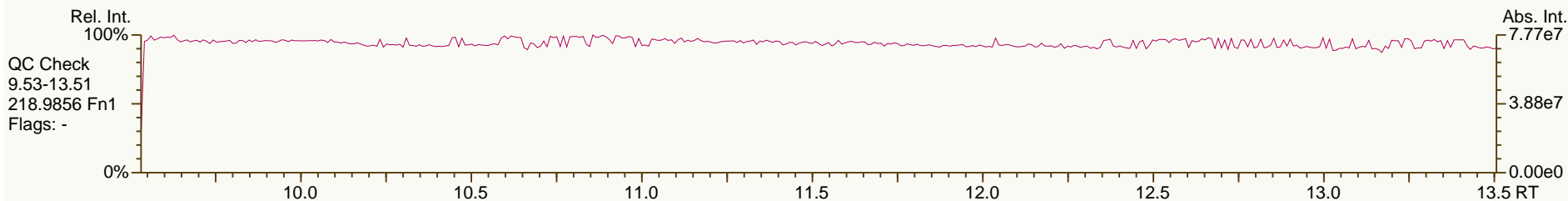
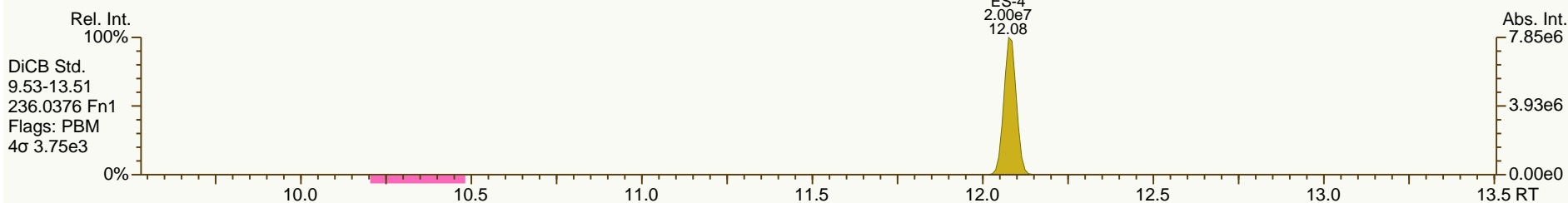
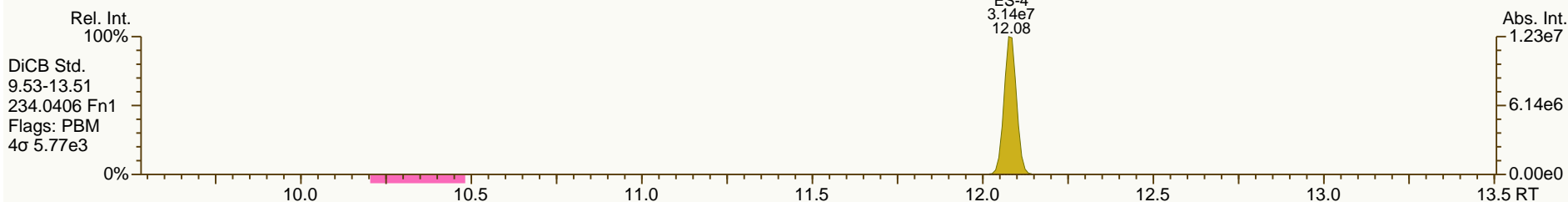
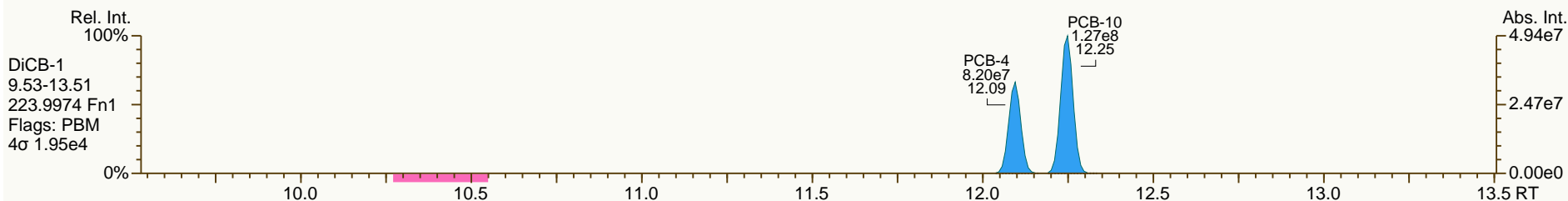
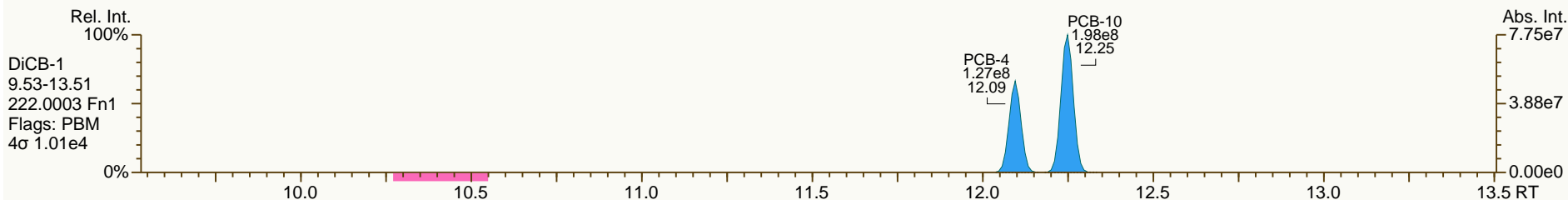
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SGS-AP ID: CS4_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

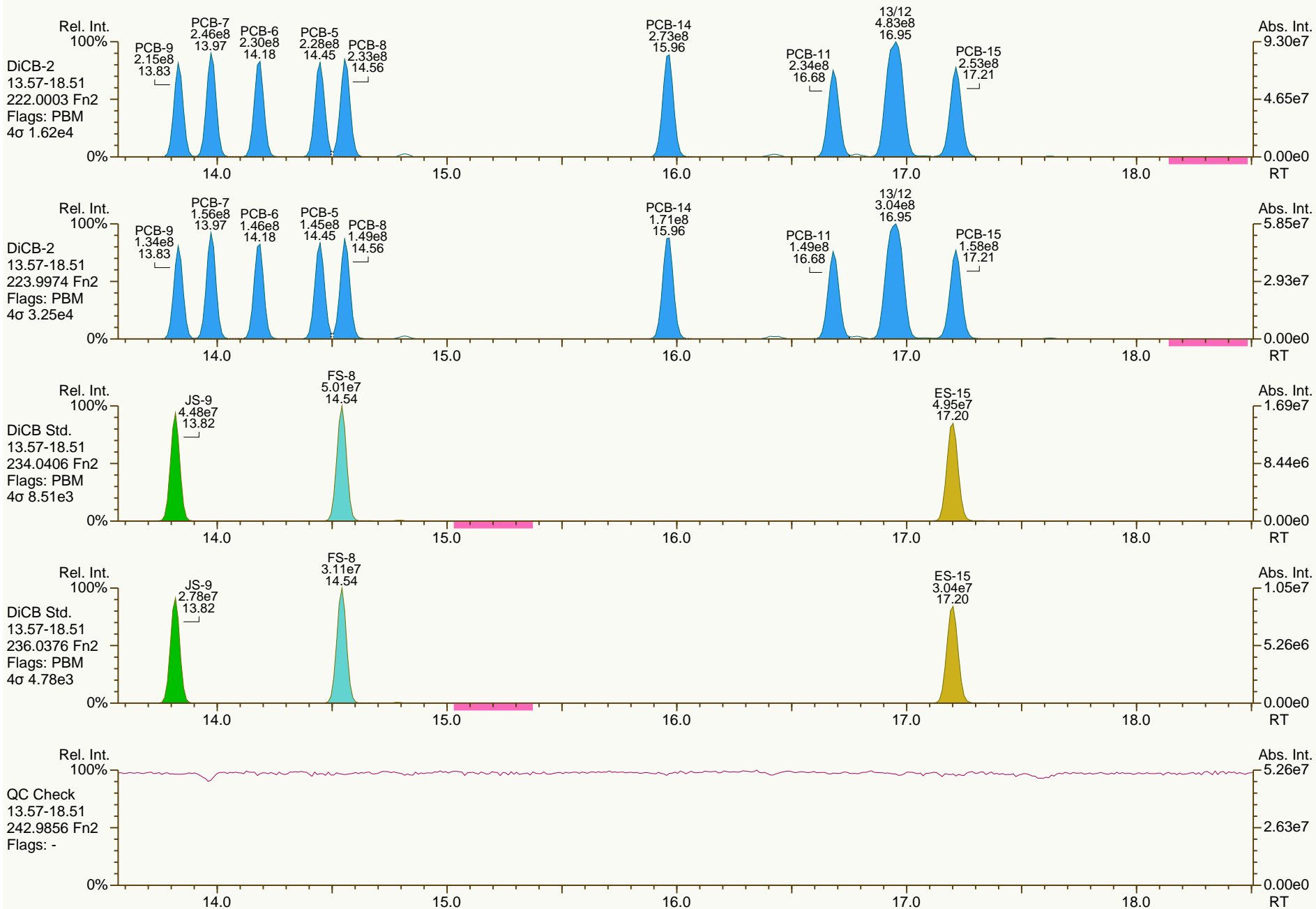
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

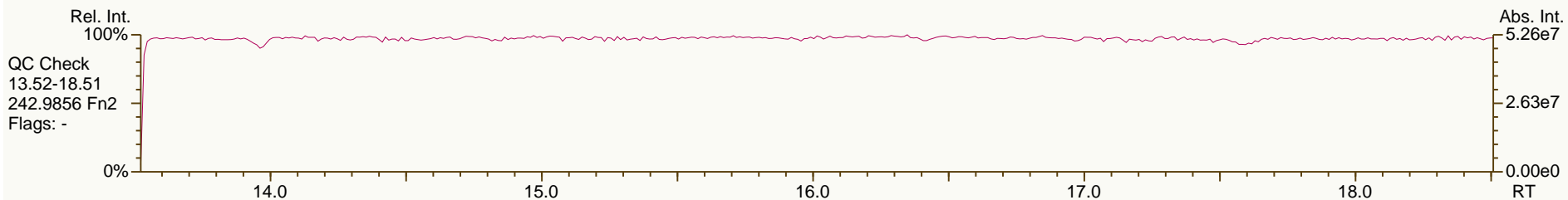
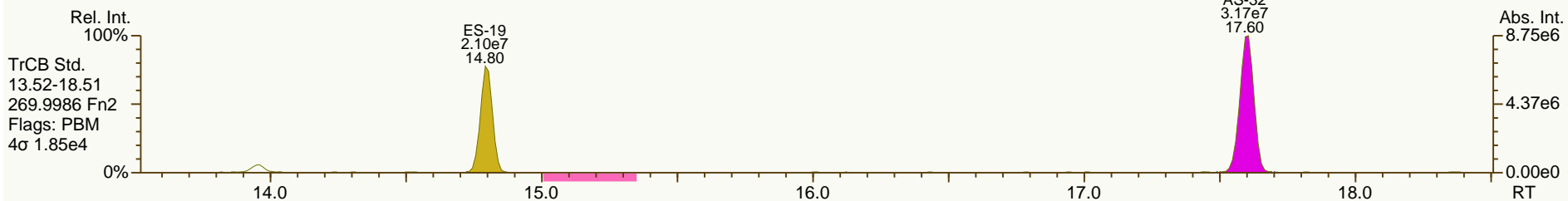
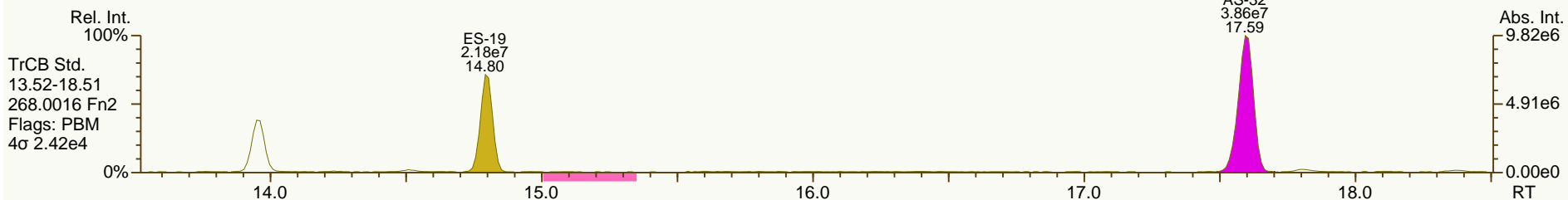
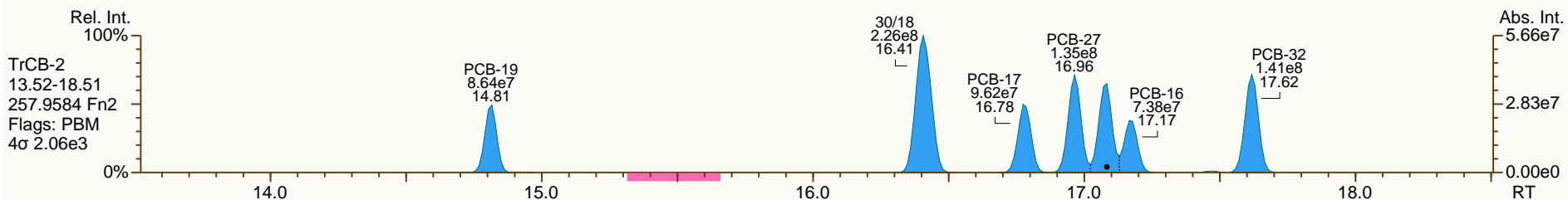
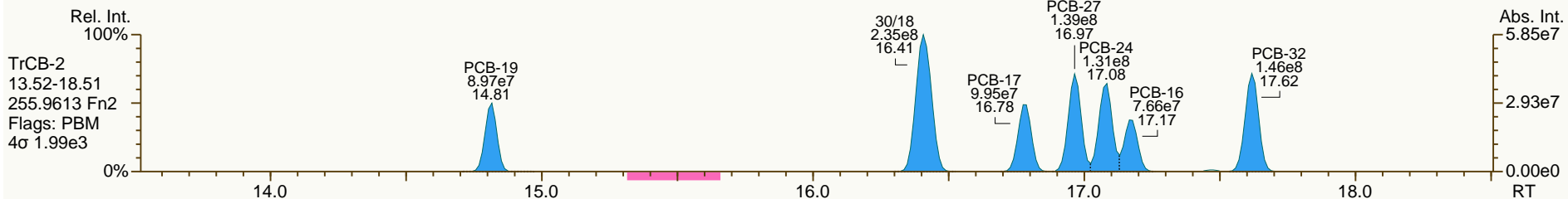
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

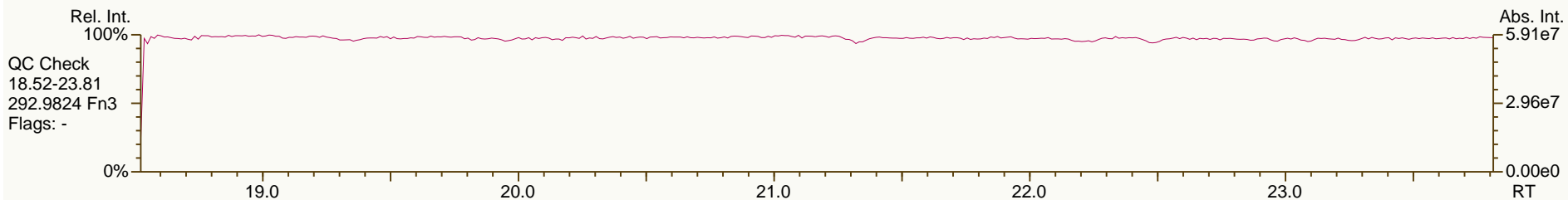
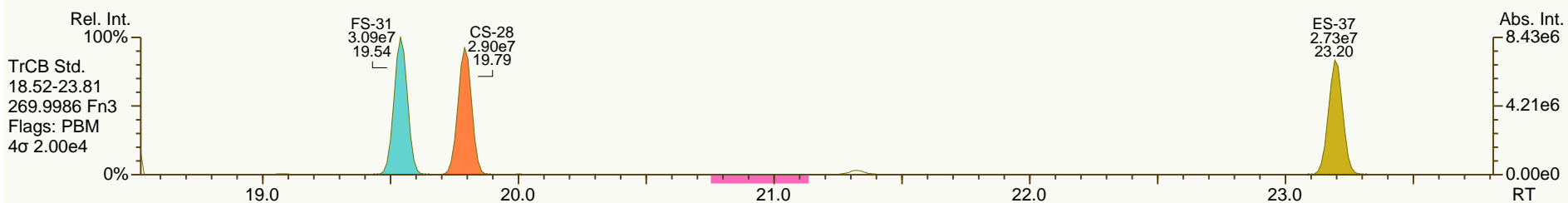
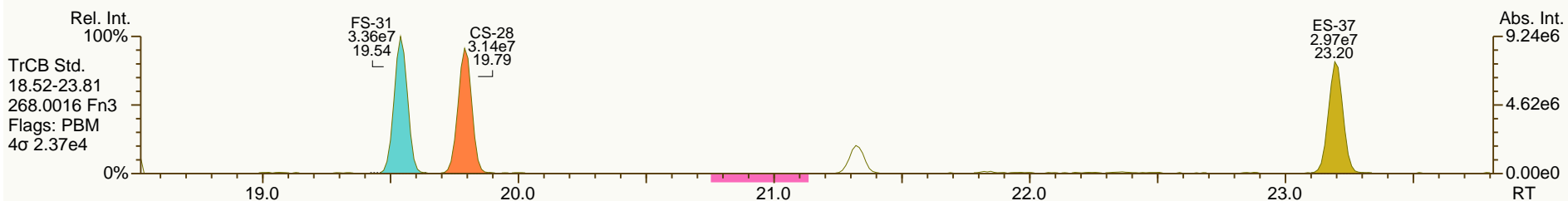
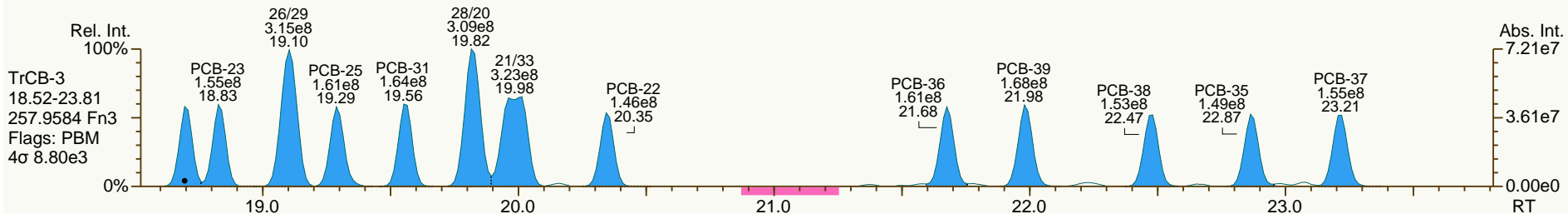
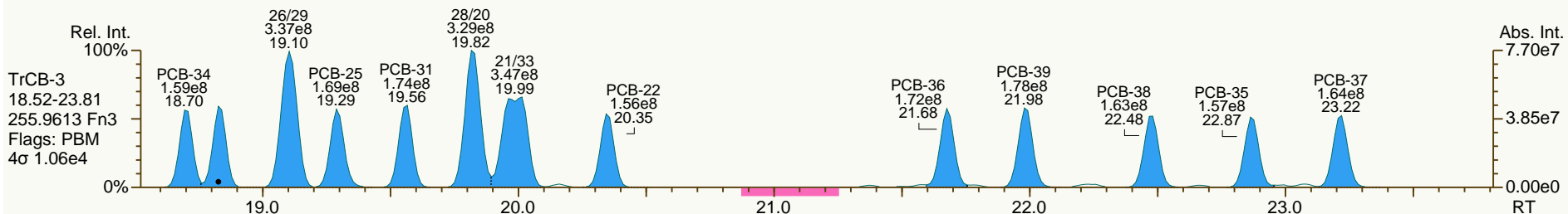
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

Acq: 11-Sep-2013 17:50:46
 User: CTW Datafile: 130911S07



SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

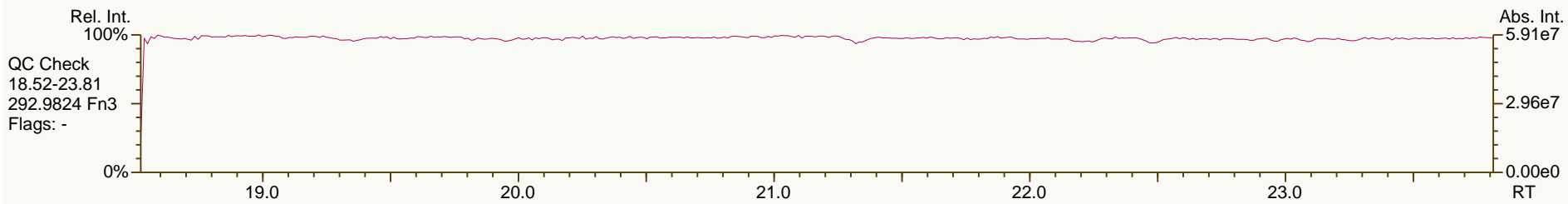
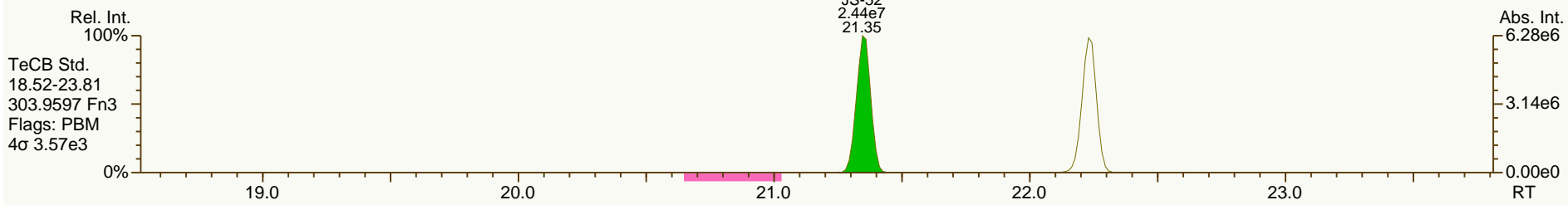
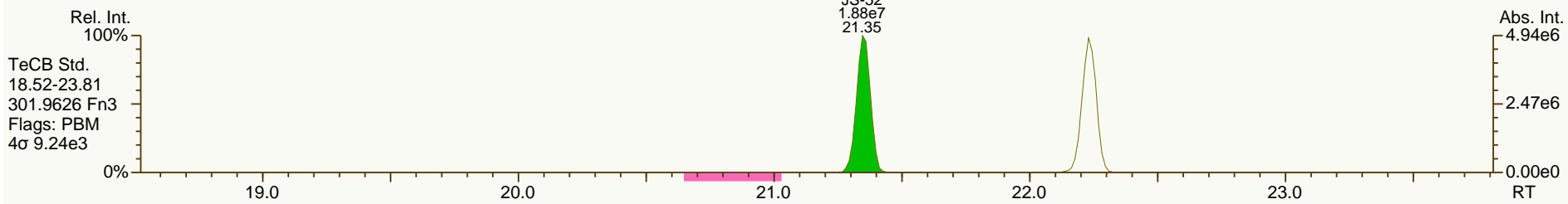
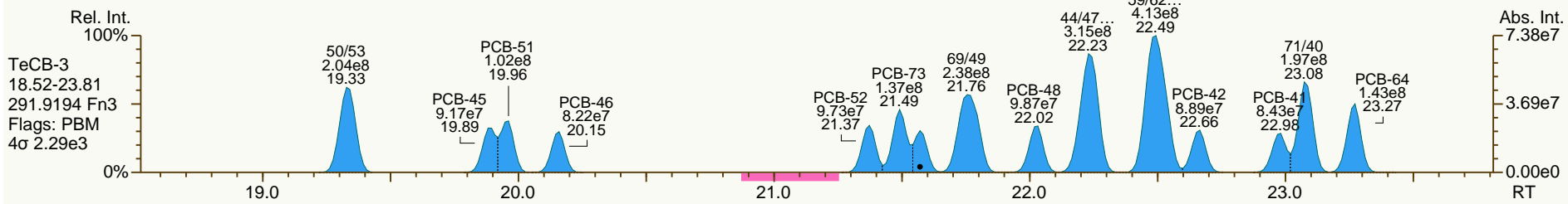
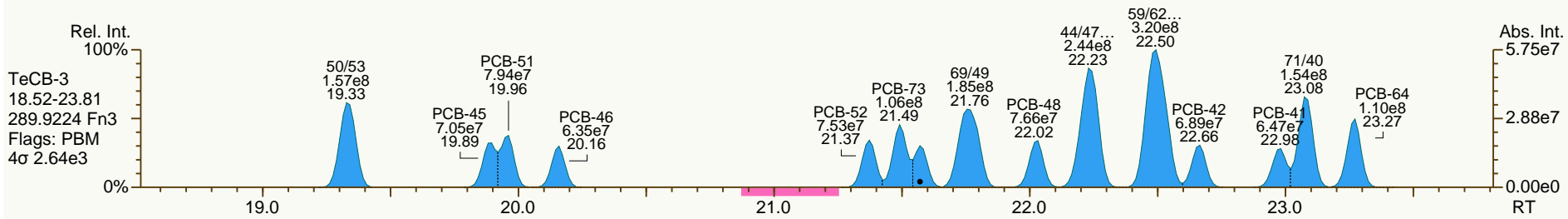
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

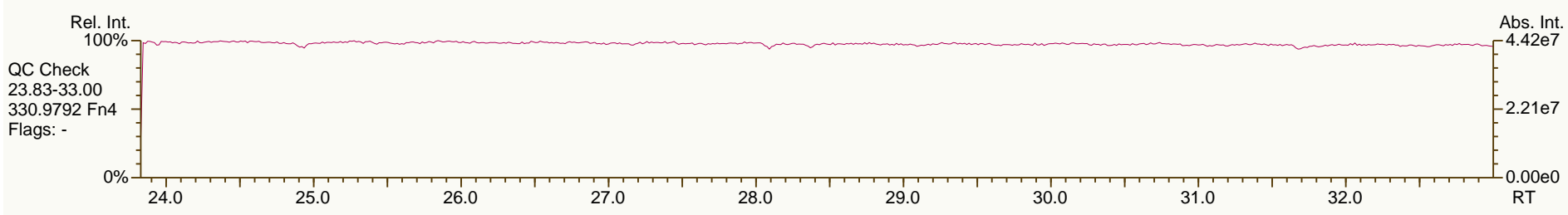
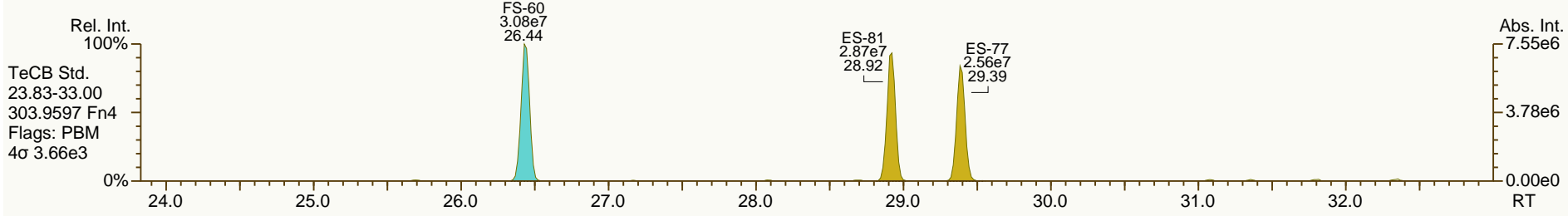
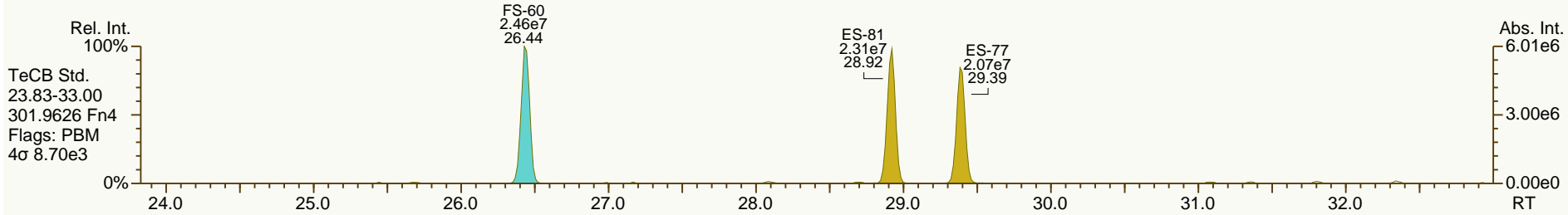
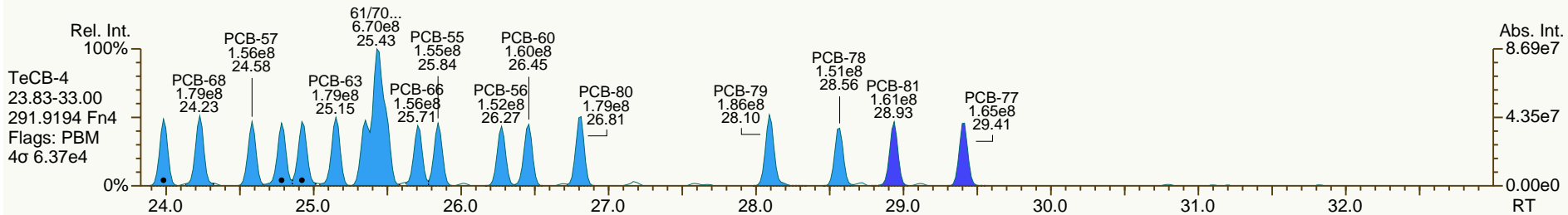
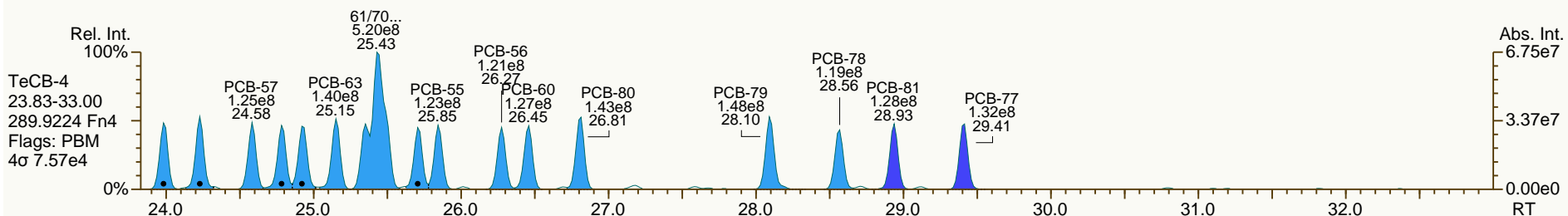
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

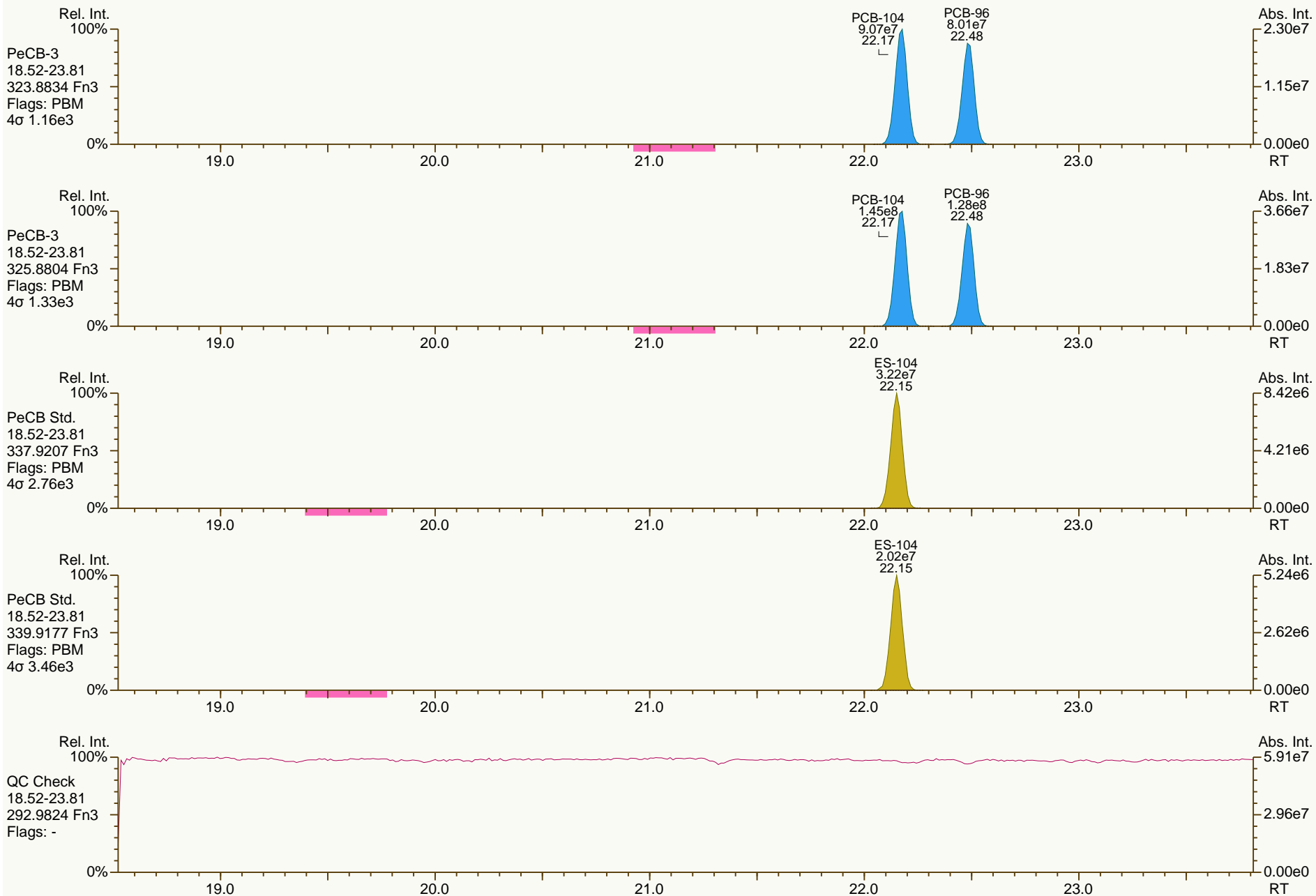
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
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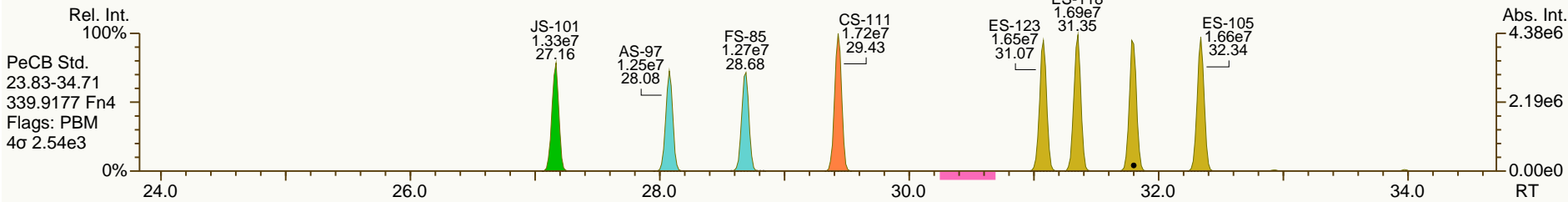
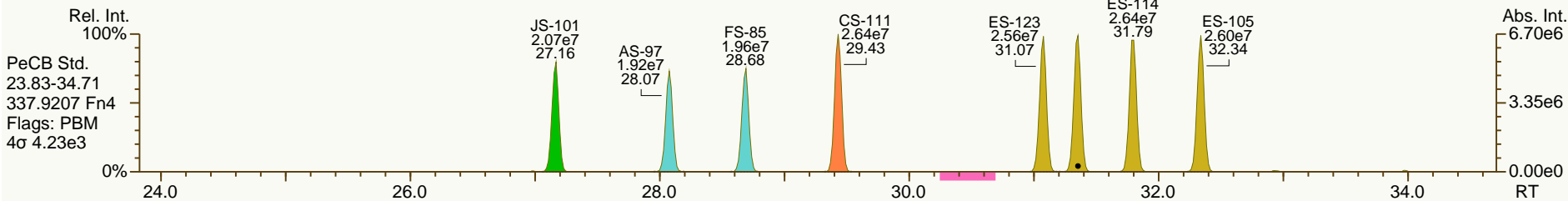
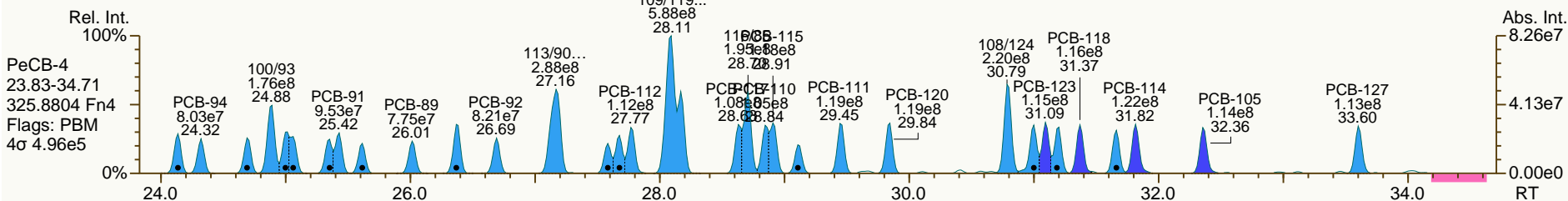
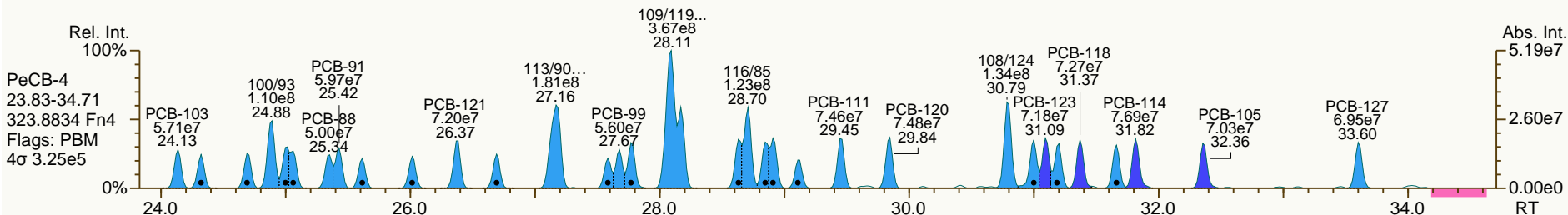
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

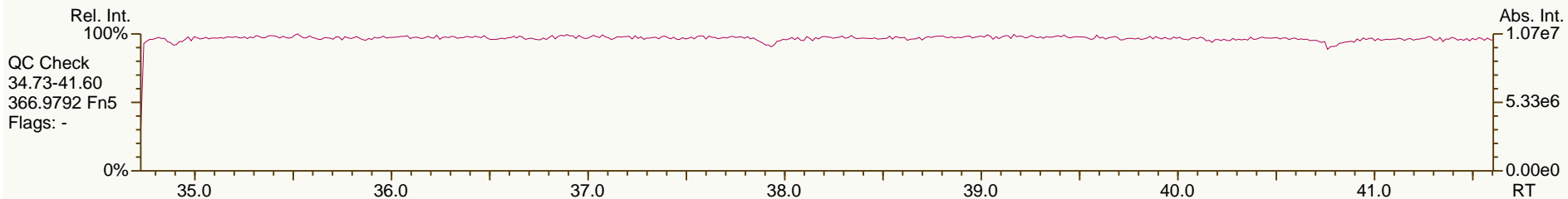
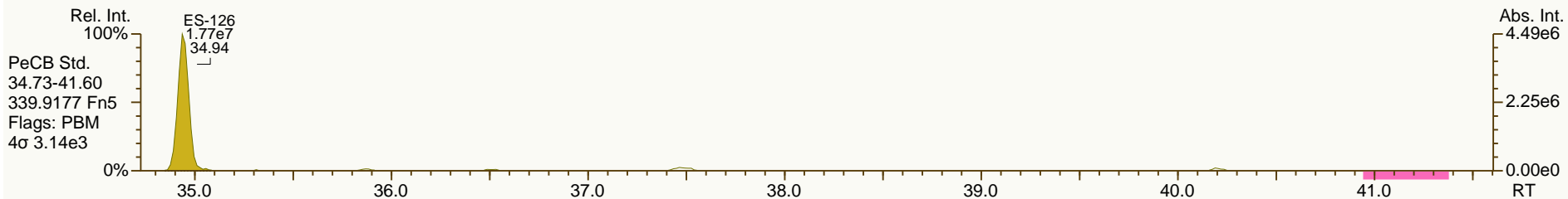
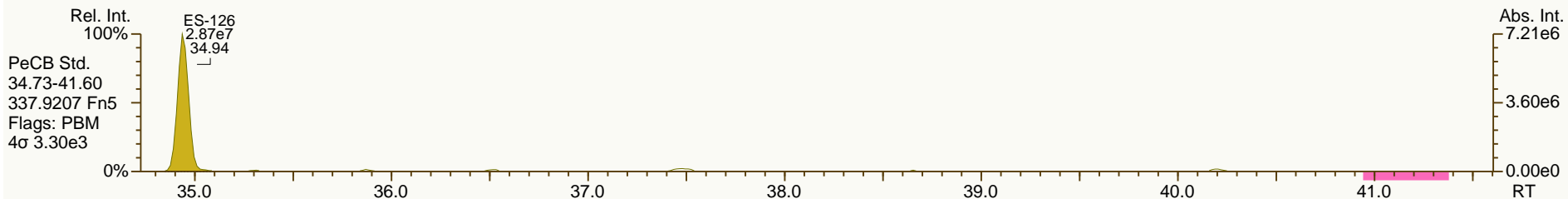
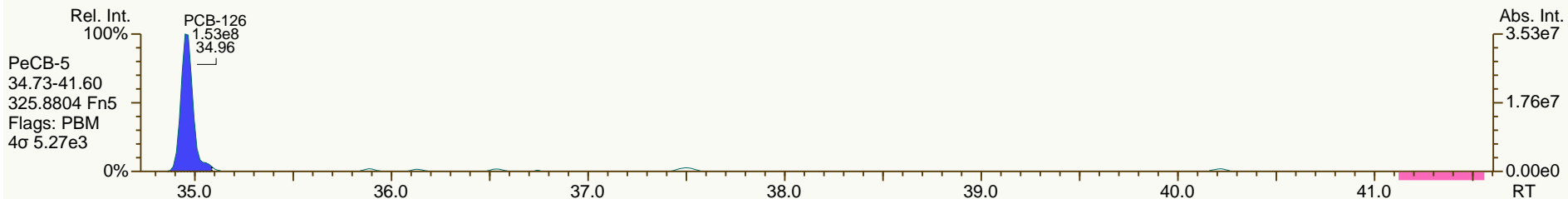
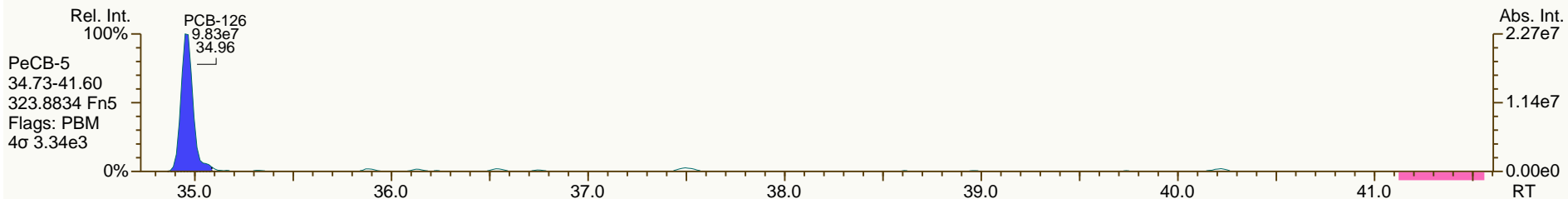
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

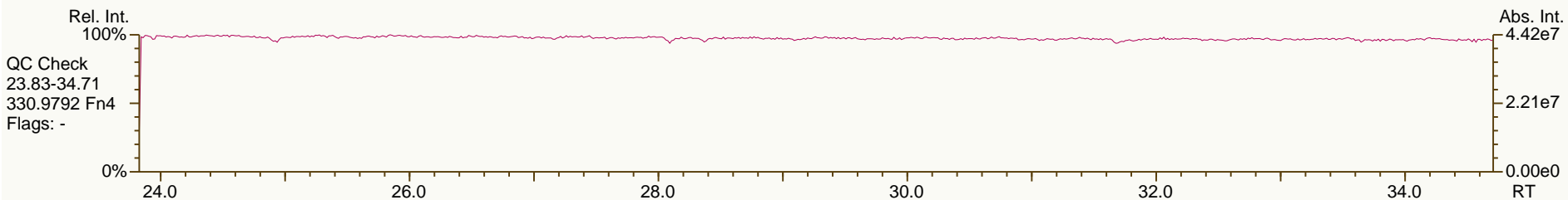
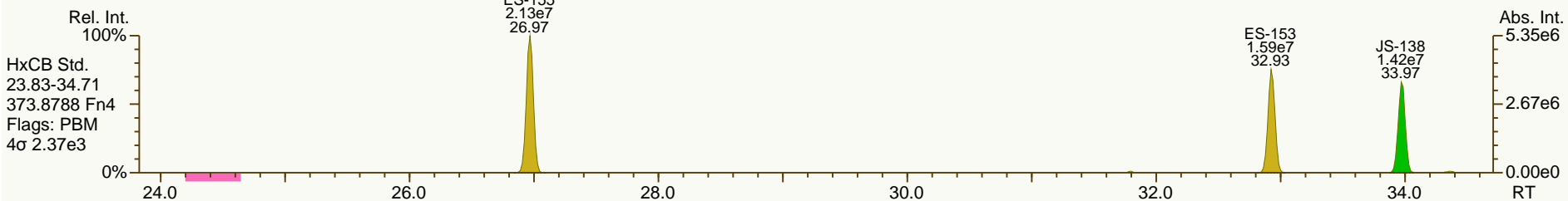
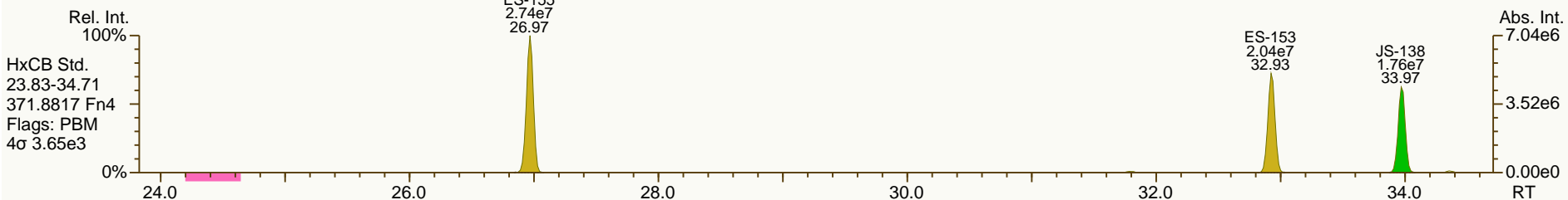
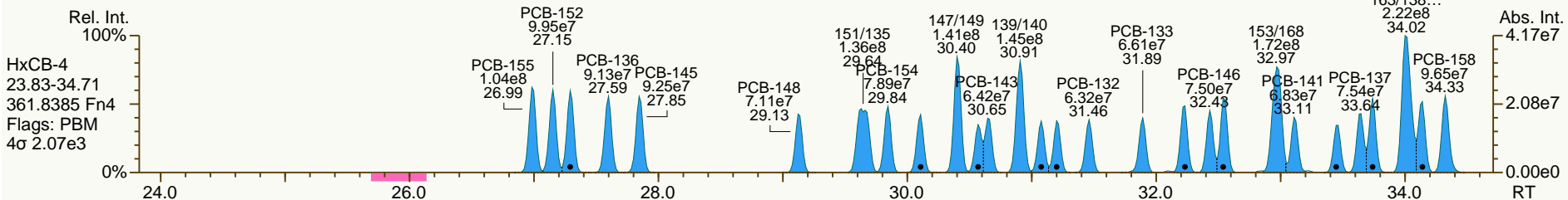
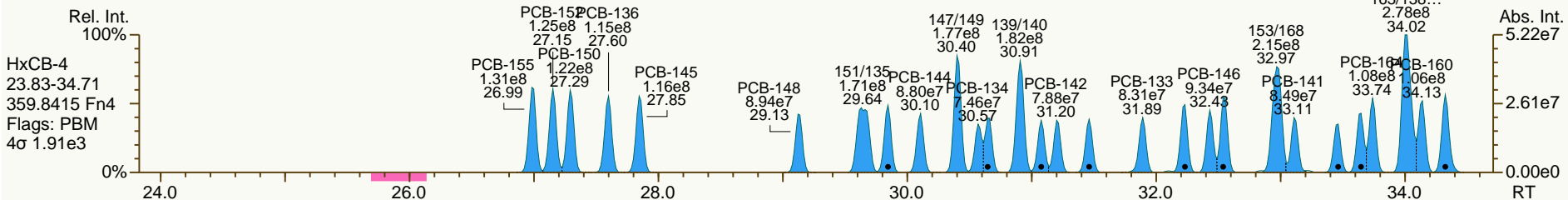
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

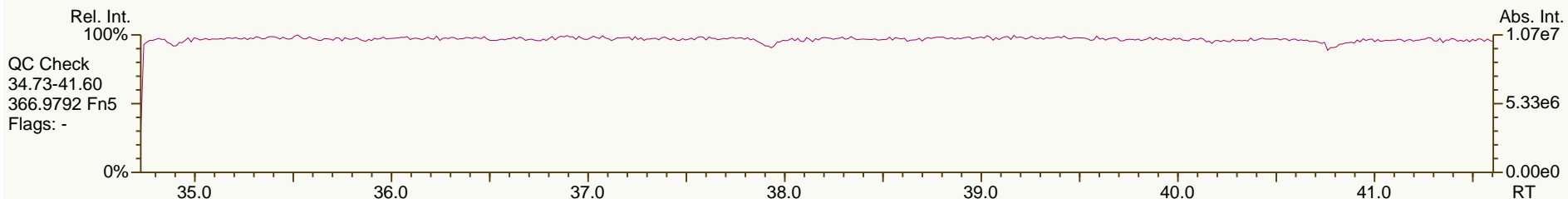
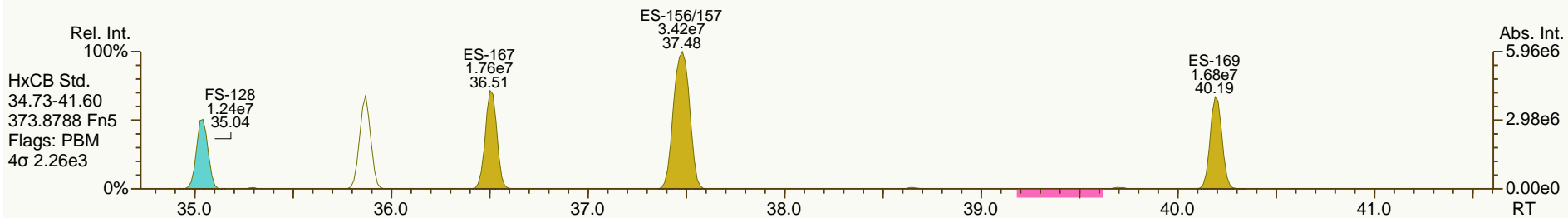
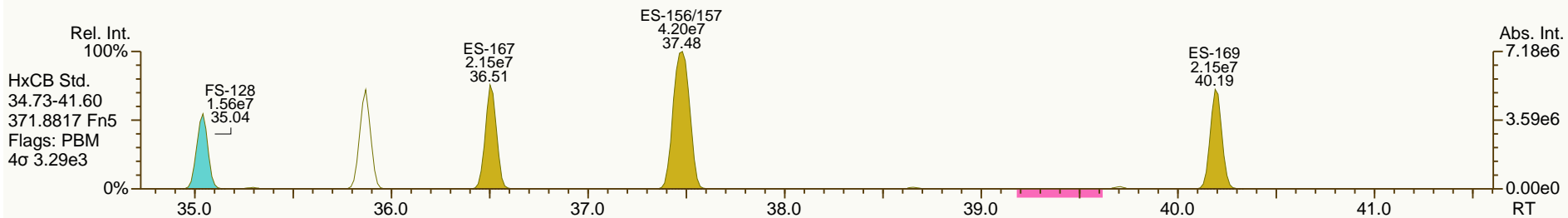
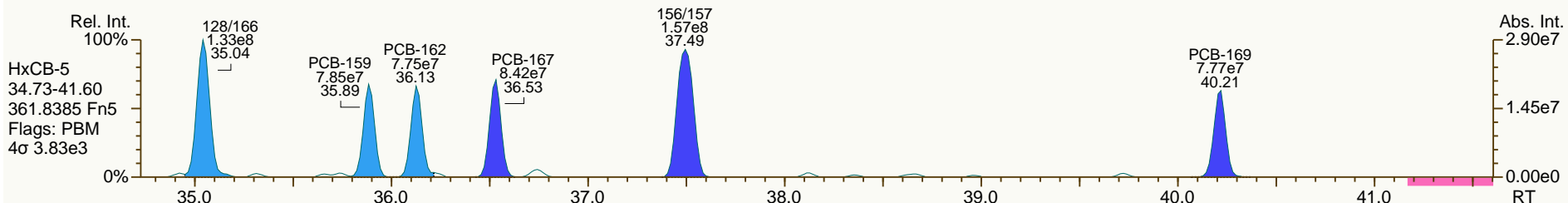
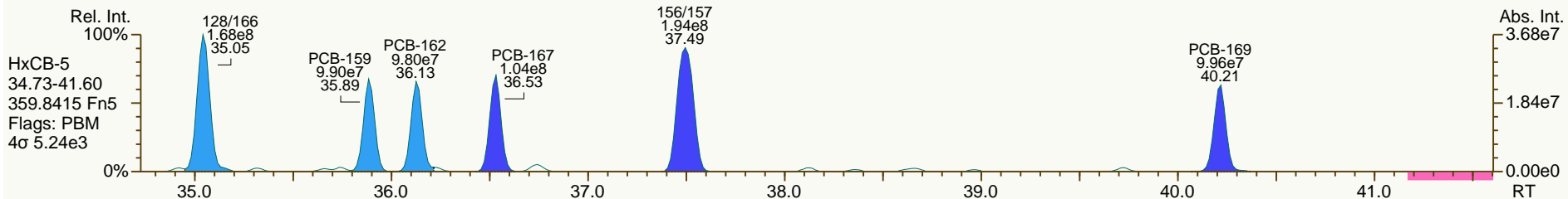
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

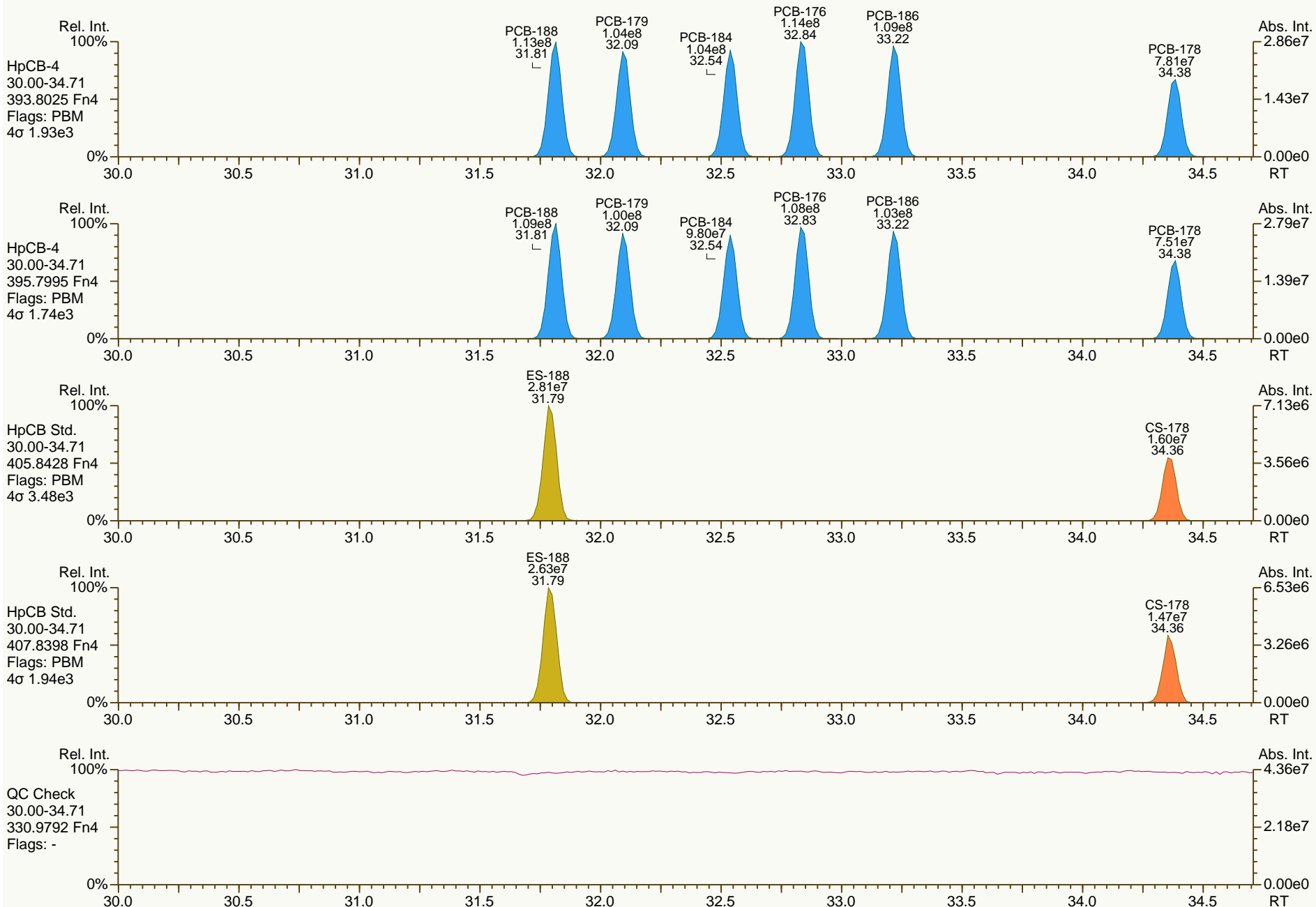
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SGS-AP ID: CS4_130911_PCB_SB
Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

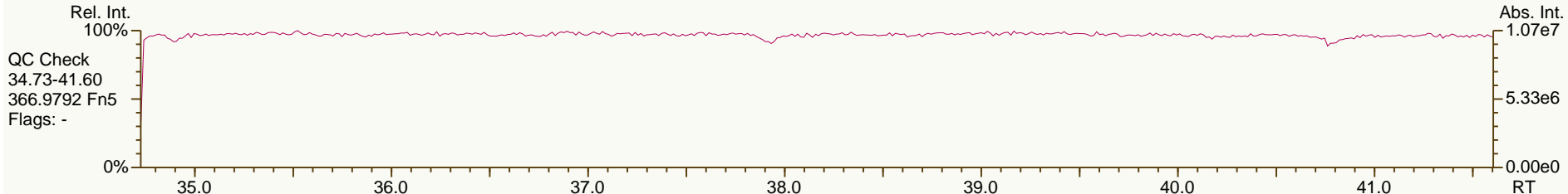
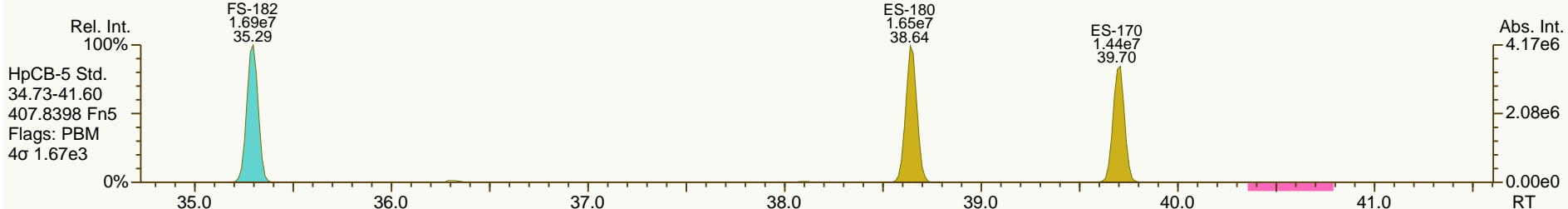
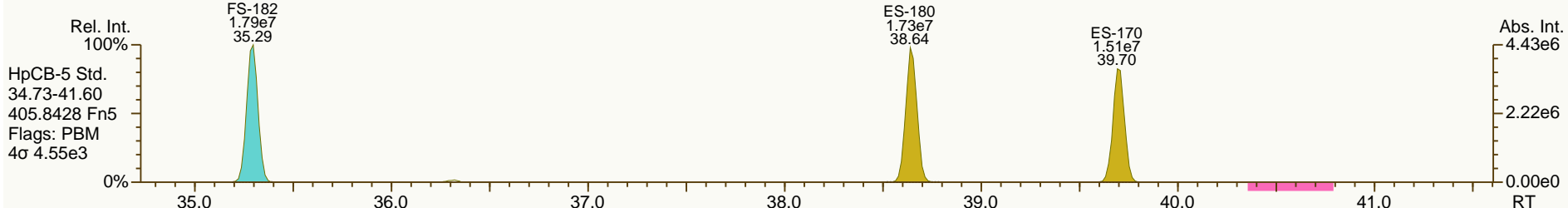
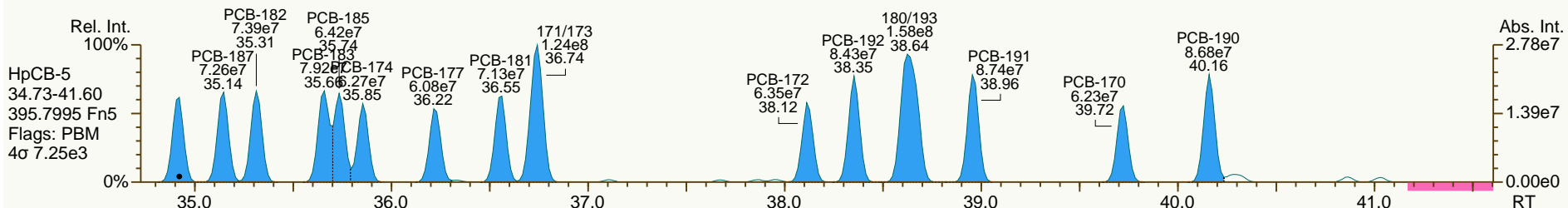
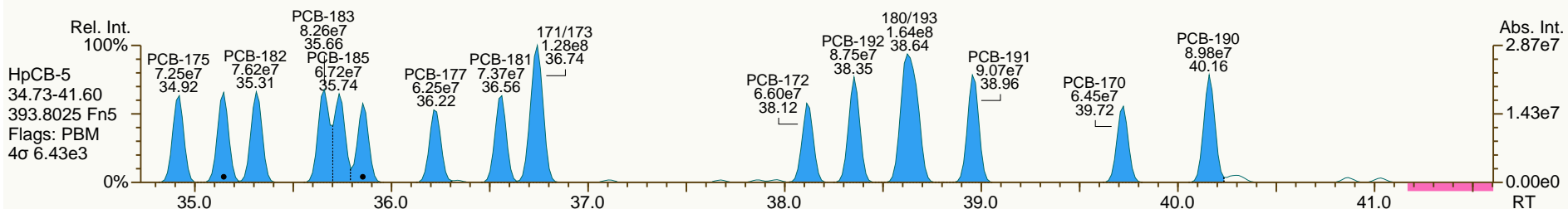
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

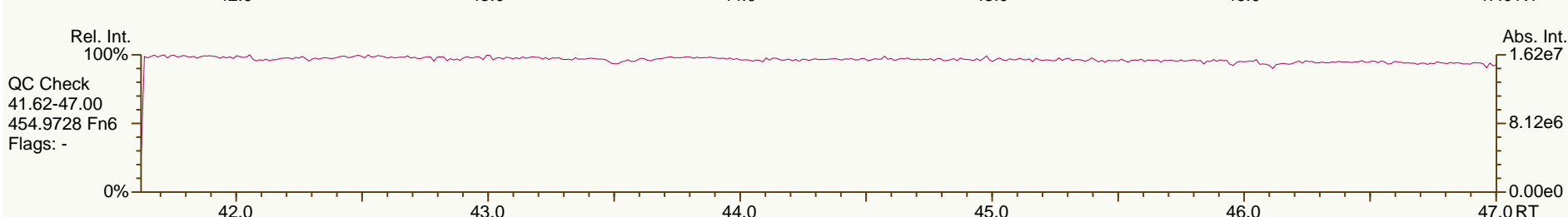
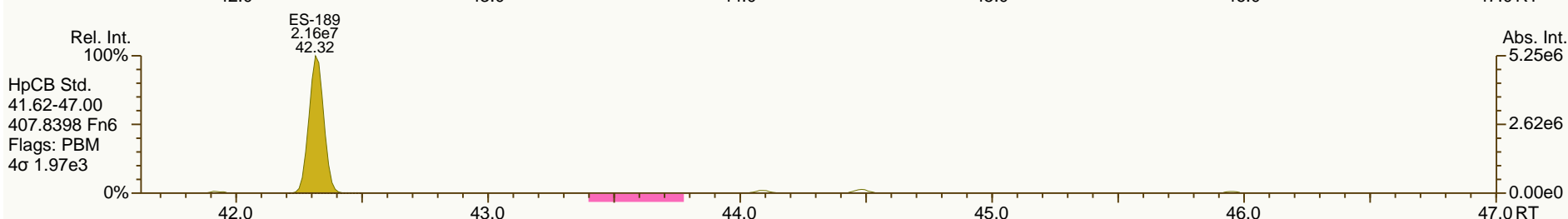
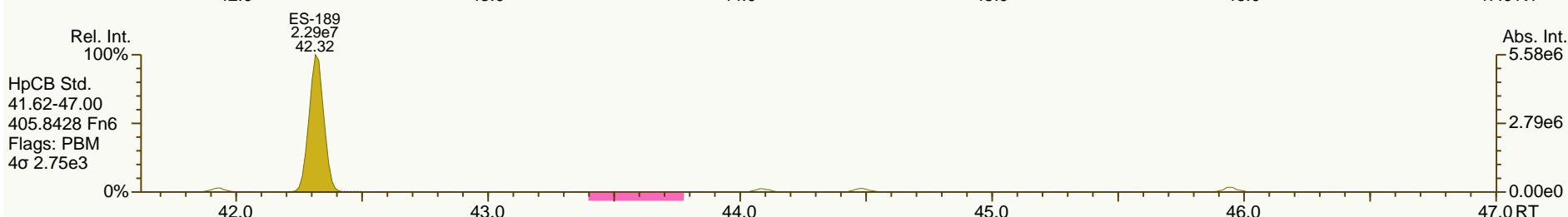
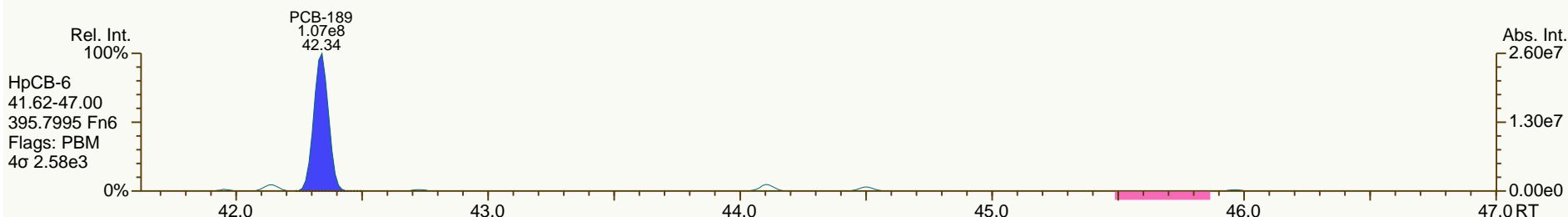
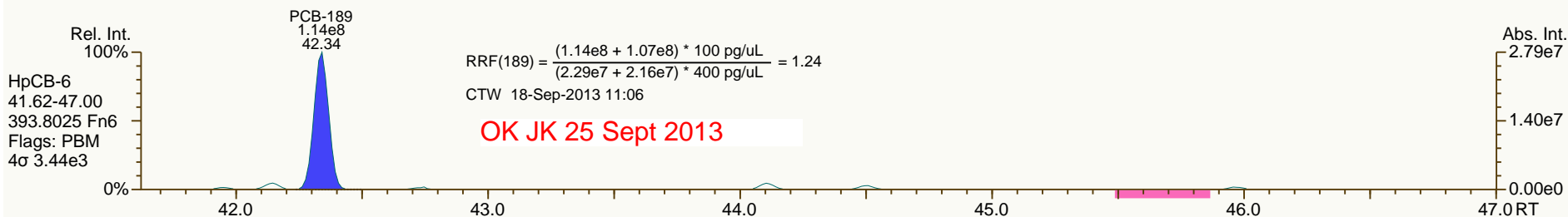
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

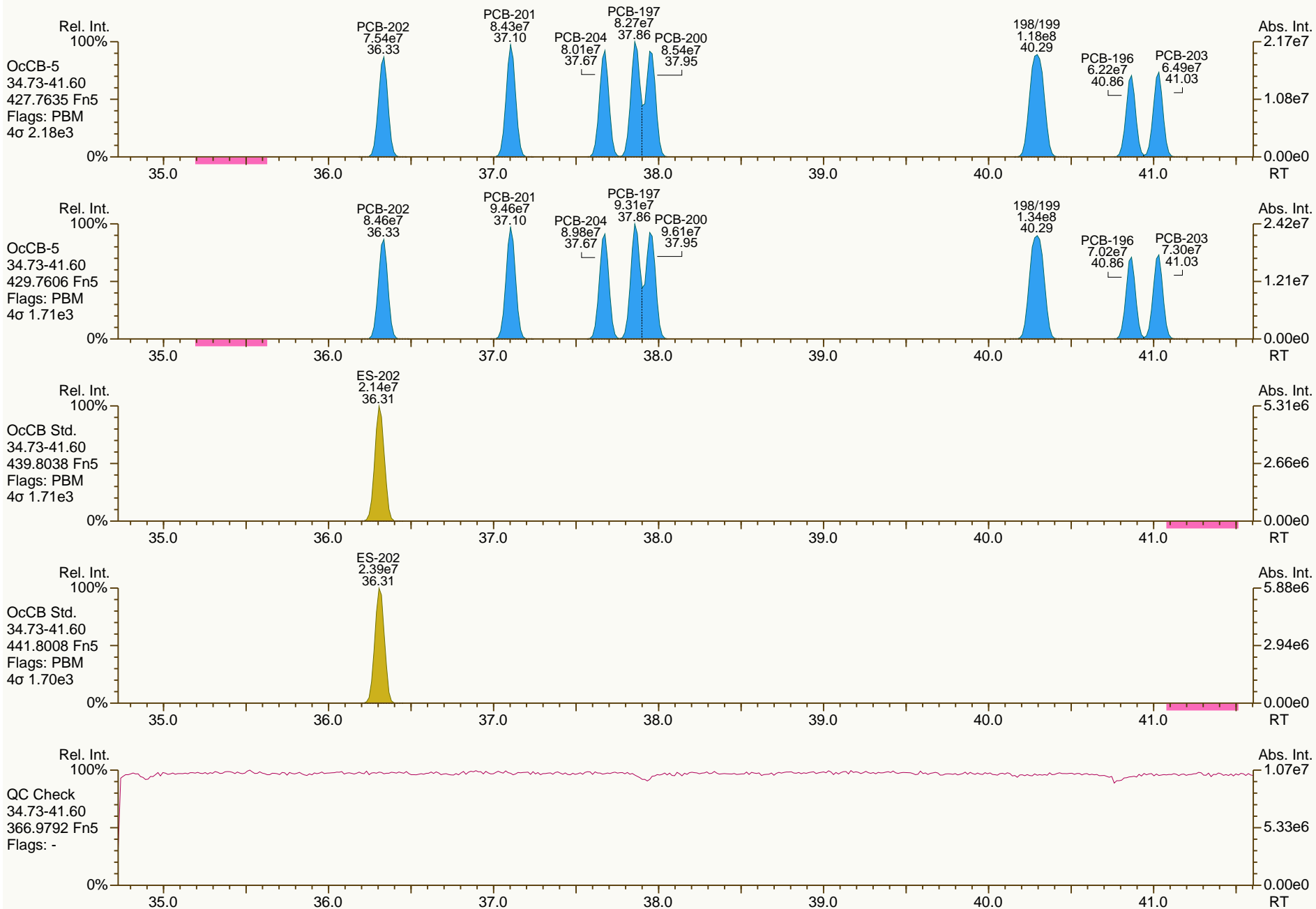
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SGS-AP ID: CS4_130911_PCB_SB
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Sample ID: SIL 13-40-2
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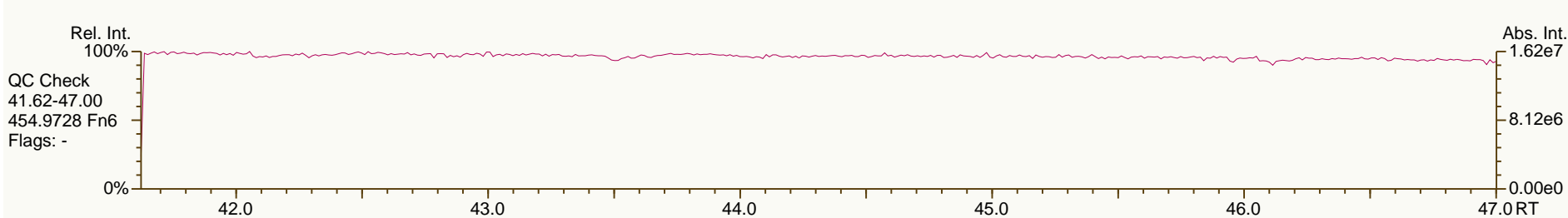
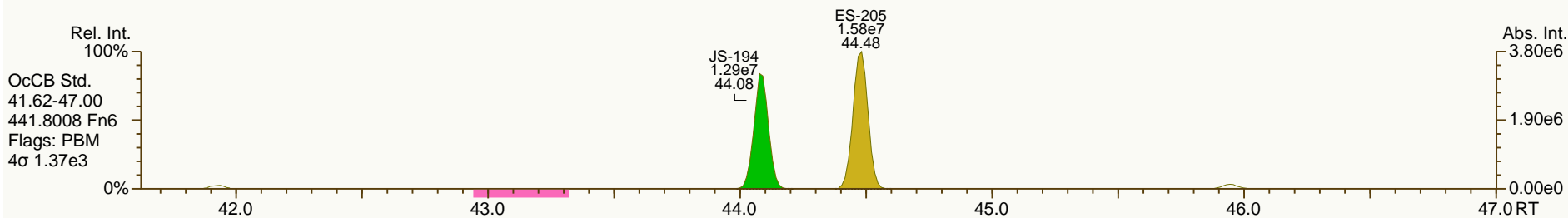
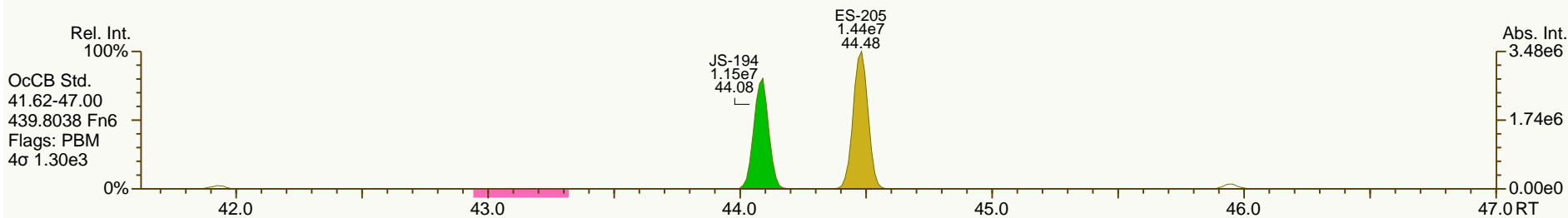
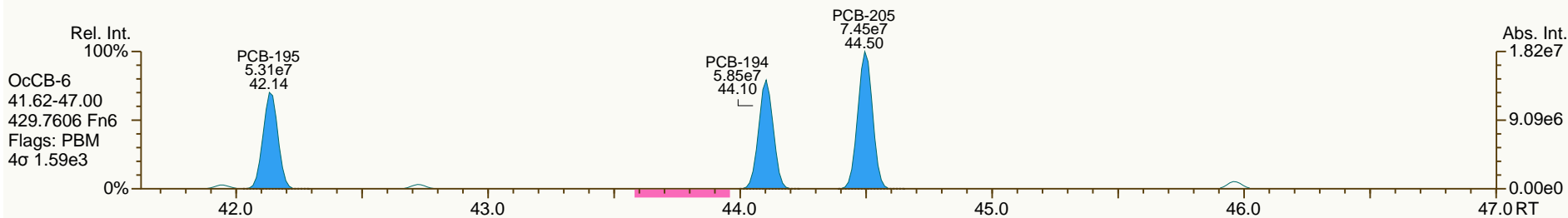
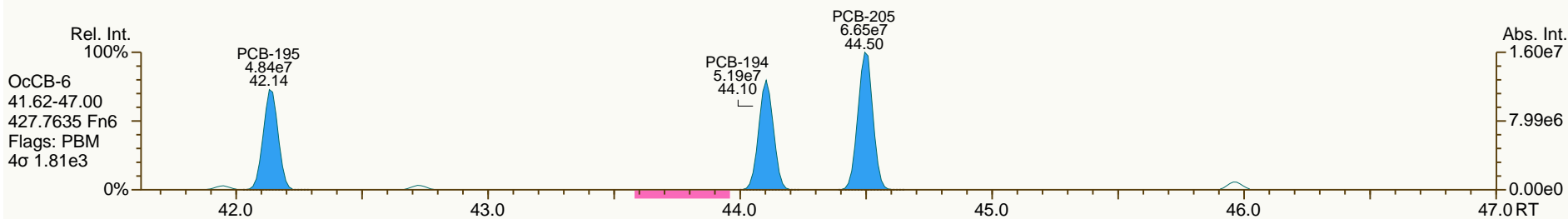
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

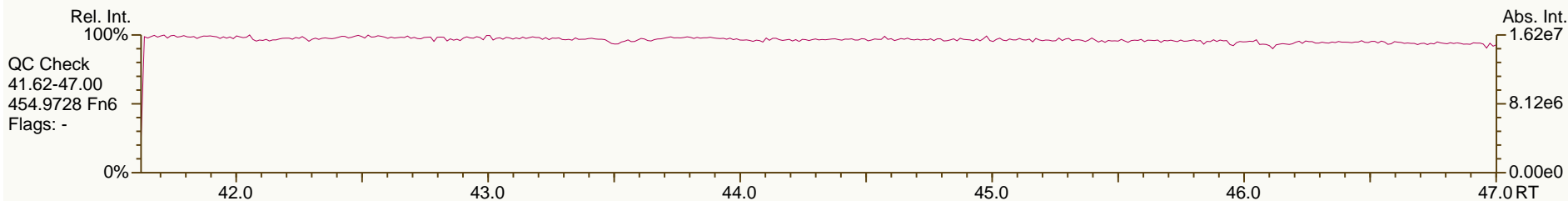
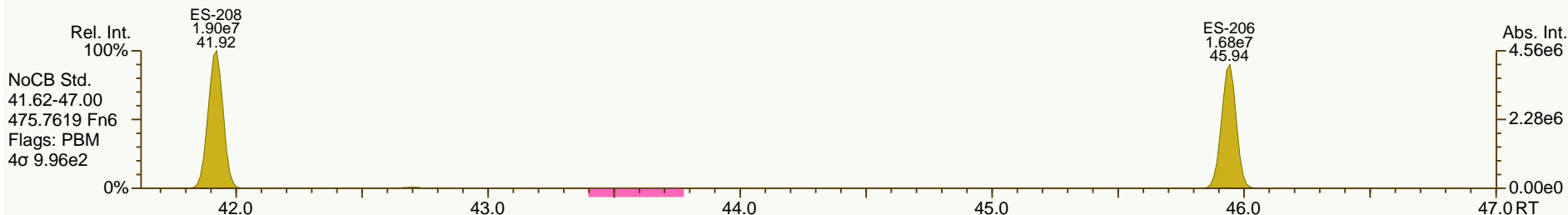
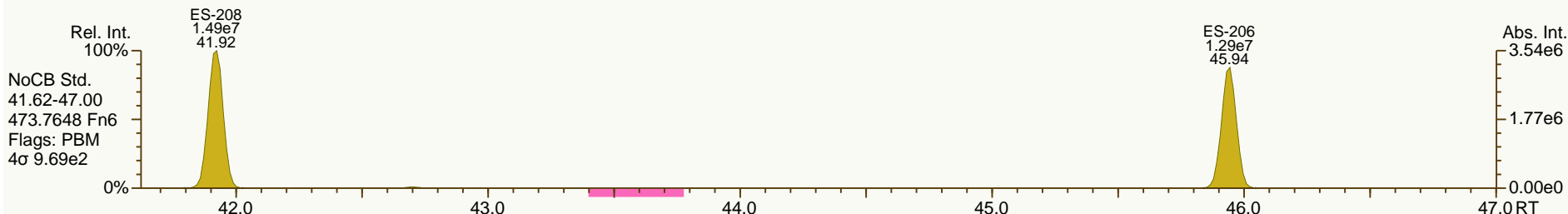
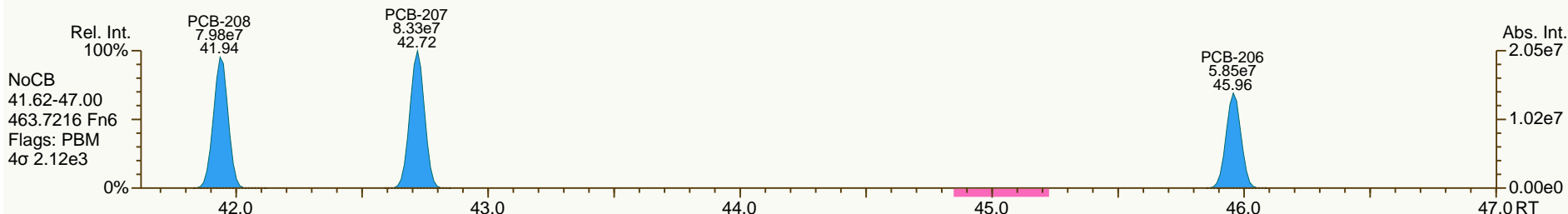
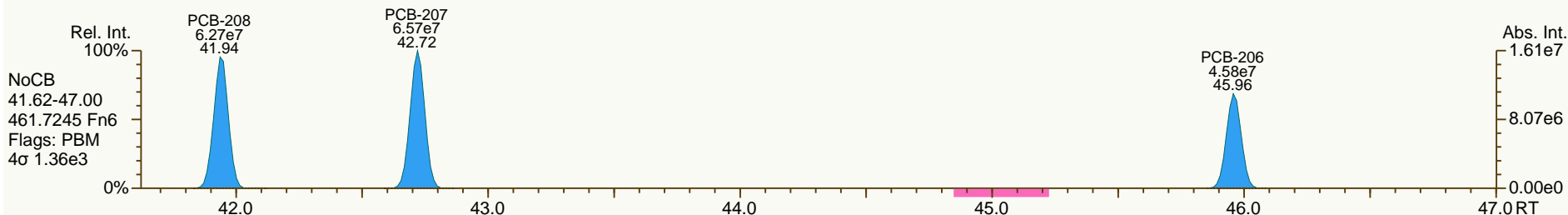
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

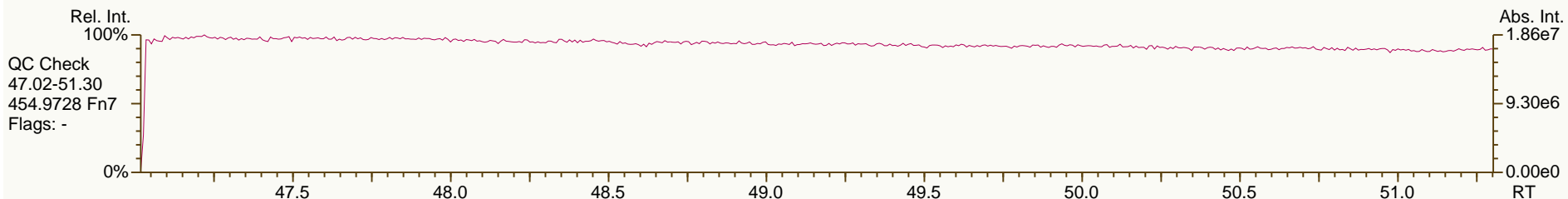
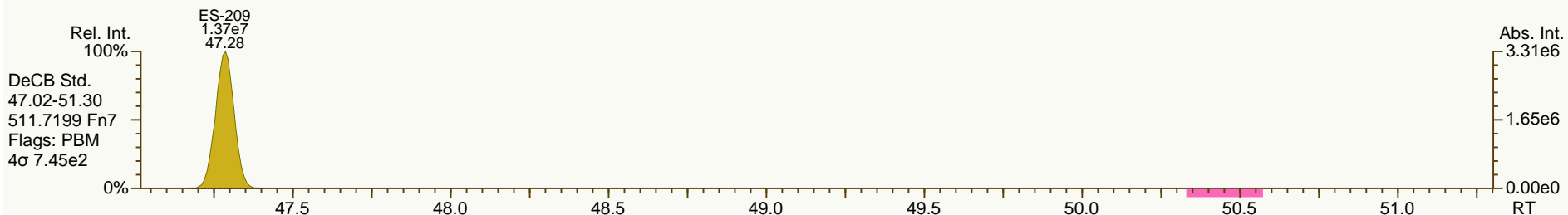
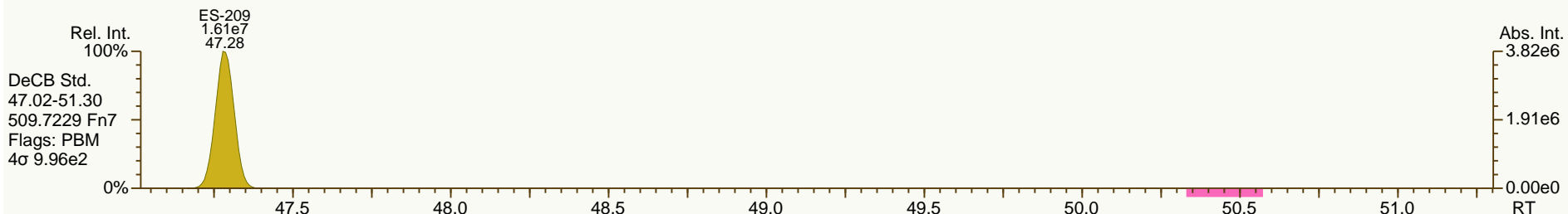
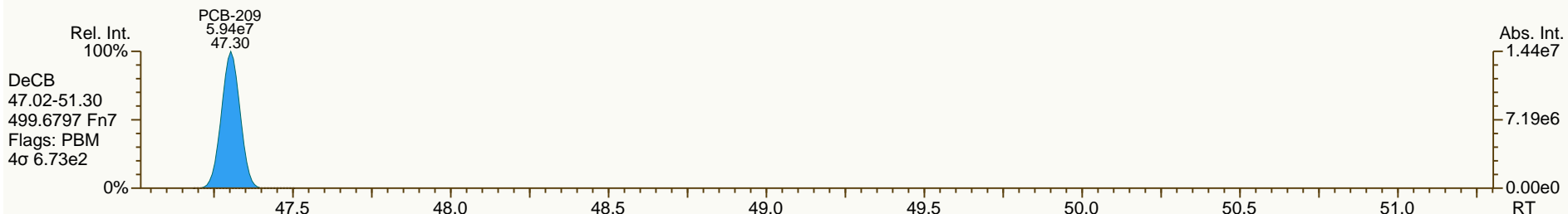
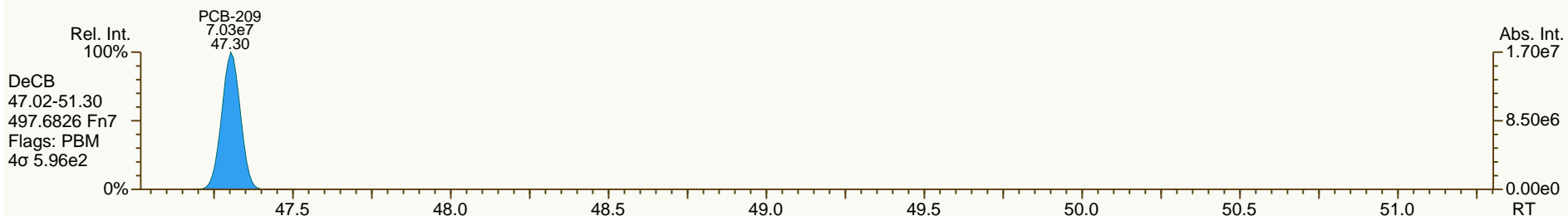
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SGS-AP ID: CS4_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-2
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 54

Acq: 11-Sep-2013 17:50:46
 User: CTW Datafile: 130911S07



PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:37		
Lab ID:	CS5_130911_PCB_SB				ICAL: MM4_PCB_07122013_11SEP2013		
Acquired:	11-SEP-2013 18:46						
Datafile:	130911S08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-77 33'44'-TeCB	29.42	1.66E+09	0.80 Y	1.51	1.57	3.6%	
PCB-81 344'5'-TeCB	28.94	1.61E+09	0.80 Y	1.27	1.33	4.7%	
PCB-105 233'44'-PeCB	32.37	1.02E+09	0.62 Y	1.00	1.05	5.9%	
PCB-114 2344'5'-PeCB	31.83	1.09E+09	0.63 Y	1.06	1.11	4.8%	
PCB-118 23'44'5'-PeCB	31.38	1.04E+09	0.63 Y	1.01	1.08	7.2%	
PCB-123 23'44'5'-PeCB	31.11	1.03E+09	0.63 Y	1.06	1.07	0.7%	
PCB-126 33'44'5'-PeCB	34.97	1.40E+09	0.63 Y	1.26	1.31	3.7%	
PCB-156/157 ...-HxCB	37.50	1.97E+09	1.24 Y	1.06	1.13	6.7%	
PCB-167 23'44'55'-HxCB	36.54	1.03E+09	1.23 Y	1.12	1.15	2.6%	
PCB-169 33'44'55'-HxCB	40.22	9.78E+08	1.27 Y	1.09	1.13	3.7%	
PCB-189 233'44'55'-HpCB	42.34	1.21E+09	1.04 Y	1.15	1.19	3.5%	
PCB-209 DeCB	47.31	6.96E+08	1.17 Y	1.03	1.06	2.8%	
ES PCB-1	9.94	8.76E+07	3.16 Y	1.04	1.04	-0.1%	
ES PCB-3	11.87	8.51E+07	3.22 Y	0.99	1.01	2.1%	
ES PCB-4	12.09	5.86E+07	1.57 Y	0.71	0.70	-2.1%	
ES PCB-15	17.21	9.54E+07	1.62 Y	1.09	1.13	4.0%	
ES PCB-19	14.80	4.85E+07	1.05 Y	0.59	0.58	-2.5%	
ES PCB-37	23.21	6.68E+07	1.08 Y	1.32	1.38	4.8%	
ES PCB-54	17.46	6.39E+07	0.78 Y	1.35	1.32	-2.3%	
ES PCB-77	29.40	5.30E+07	0.80 Y	1.07	1.10	2.6%	
ES PCB-81	28.93	6.06E+07	0.80 Y	1.19	1.25	5.1%	
ES PCB-104	22.16	5.78E+07	1.55 Y	1.62	1.52	-6.3%	
ES PCB-105	32.34	4.84E+07	1.55 Y	1.30	1.27	-2.3%	
ES PCB-114	31.80	4.88E+07	1.57 Y	1.32	1.28	-2.8%	
ES PCB-118	31.36	4.79E+07	1.58 Y	1.30	1.26	-3.5%	
ES PCB-123	31.08	4.80E+07	1.56 Y	1.26	1.26	0.0%	
ES PCB-126	34.95	5.35E+07	1.61 Y	1.41	1.41	0.0%	
ES PCB-153	32.93	4.15E+07	1.25 Y	1.15	1.18	2.7%	
ES PCB-155	26.98	5.41E+07	1.26 Y	1.53	1.54	0.5%	
ES PCB-156/157	37.48	8.66E+07	1.25 Y	1.19	1.23	4.0%	
ES PCB-167	36.51	4.50E+07	1.26 Y	1.22	1.28	4.6%	
ES PCB-169	40.20	4.34E+07	1.26 Y	1.18	1.24	4.6%	
ES PCB-170	39.70	3.30E+07	1.06 Y	1.22	1.24	1.2%	
ES PCB-180	38.65	3.86E+07	1.07 Y	1.41	1.44	2.6%	
ES PCB-188	31.80	5.95E+07	1.09 Y	1.71	1.70	-0.6%	
ES PCB-189	42.32	5.06E+07	1.05 Y	1.84	1.89	3.0%	
ES PCB-202	36.32	4.98E+07	0.88 Y	1.42	1.42	0.2%	
ES PCB-205	44.48	3.38E+07	0.89 Y	1.25	1.26	0.7%	
ES PCB-206	45.94	3.30E+07	0.77 Y	1.24	1.24	-0.1%	
ES PCB-208	41.92	3.77E+07	0.79 Y	1.42	1.41	-0.6%	
ES PCB-209	47.29	3.27E+07	1.16 Y	1.23	1.23	-0.6%	

PCB QC Summary		SGS Analytical Perspectives			Printed: 12-Sep-2013 16:37		
Lab ID:	CS5_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 18:46						
Datafile:	130911S08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
SS PCB-28	19.80	7.07E+07	1.07 Y	1.06	1.06	-0.5%	
SS PCB-111	29.44	5.00E+07	1.53 Y	1.06	1.04	-1.8%	
SS PCB-178	34.37	3.46E+07	1.09 Y	0.58	0.58	-0.2%	
CS PCB-28	19.80	7.07E+07	1.07 Y	1.40	1.46	4.3%	
CS PCB-111	29.44	5.00E+07	1.53 Y	1.34	1.31	-1.8%	
CS PCB-178	34.37	3.46E+07	1.09 Y	0.99	0.99	-0.8%	
JS PCB-9	13.82	8.42E+07	1.61 Y	-	-	-	
JS PCB-52	21.36	4.84E+07	0.78 Y	-	-	-	
JS PCB-101	27.17	3.81E+07	1.53 Y	-	-	-	
JS PCB-138	33.98	3.51E+07	1.27 Y	-	-	-	
JS PCB-194	44.09	2.67E+07	0.90 Y	-	-	-	
PCB-1 2-MoCB	9.95	2.19E+09	3.19 Y	1.20	1.25	4.5%	
PCB-3 4-MoCB	11.88	2.18E+09	3.21 Y	1.24	1.28	3.7%	
PCB-4 22'-DiCB	12.10	1.18E+09	1.56 Y	0.97	1.01	3.7%	
PCB-15 44'-DiCB	17.22	2.35E+09	1.58 Y	1.23	1.23	0.3%	
PCB-19 22'6'-TrCB	14.82	9.87E+08	1.04 Y	0.97	1.02	5.0%	
PCB-37 344'-TrCB	23.23	1.82E+09	1.08 Y	1.28	1.36	6.1%	
PCB-54 22'66'-TeCB	17.48	1.35E+09	0.77 Y	1.00	1.05	5.3%	
PCB-104 22'466'-PeCB	22.18	1.28E+09	0.63 Y	1.06	1.10	4.6%	
PCB-153/168 ...-HxCB	32.98	2.17E+09	1.26 Y	1.26	1.31	4.1%	
PCB-155 22'44'66'-HxCB	27.00	1.28E+09	1.26 Y	1.12	1.18	5.4%	
PCB-170 22'33'44'5'-HpCB	39.72	6.99E+08	1.04 Y	1.01	1.06	5.0%	
PCB-180/193 ...-HpCB	38.64	1.77E+09	1.03 Y	1.11	1.15	3.2%	
PCB-188 22'34'566'-HpCB	31.82	1.20E+09	1.04 Y	0.97	1.01	4.0%	
PCB-202 22'33'55'66'-OcCB	36.34	8.76E+08	0.89 Y	0.83	0.88	5.7%	
PCB-205 233'44'55'6'-OcCB	44.50	7.70E+08	0.91 Y	1.08	1.14	5.6%	
PCB-208 22'33'455'66'-NoCB	41.94	7.76E+08	0.78 Y	0.99	1.03	3.6%	
PCB-206 22'33'44'55'6'-NoCB	45.96	5.71E+08	0.76 Y	0.83	0.86	4.2%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:37			
Lab ID:	CS5_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 18:46						
Datafile:	130911S08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-1 2-MoCB	9.95	2.19E+09	3.19 Y	1.20	1.25	4.5%	
PCB-2 3-MoCB	11.72	2.20E+09	3.22 Y	1.25	1.29	3.9%	
PCB-3 4-MoCB	11.88	2.18E+09	3.21 Y	1.24	1.28	3.7%	
PCB-4 22'-DiCB	12.10	1.18E+09	1.56 Y	0.97	1.01	3.7%	
PCB-10 26'-DiCB	12.25	1.83E+09	1.56 Y	1.51	1.56	3.4%	
PCB-9 25'-DiCB	13.84	2.01E+09	1.60 Y	1.06	1.05	-0.7%	
PCB-7 24'-DiCB	13.98	2.28E+09	1.60 Y	1.23	1.20	-2.9%	
PCB-6 23'-DiCB	14.19	2.12E+09	1.61 Y	1.14	1.11	-2.2%	
PCB-5 23'-DiCB	14.45	2.16E+09	1.58 Y	1.15	1.13	-1.2%	
PCB-8 24'-DiCB	14.56	2.22E+09	1.60 Y	1.18	1.16	-1.0%	
PCB-14 35'-DiCB	15.97	2.56E+09	1.57 Y	1.31	1.34	2.1%	
PCB-11 33'-DiCB	16.69	2.22E+09	1.59 Y	1.17	1.16	-0.6%	
PCB-13/12 34'/34'-DiCB	16.96	4.51E+09	1.59 Y	1.17	1.18	1.4%	
PCB-15 44'-DiCB	17.22	2.35E+09	1.58 Y	1.23	1.23	0.3%	
PCB-19 22'6'-TrCB	14.82	9.87E+08	1.04 Y	0.97	1.02	5.0%	
PCB-30/18 246'/22'5'-TrCB	16.42	2.63E+09	1.04 Y	1.23	1.36	9.9%	
PCB-17 22'4'-TrCB	16.79	1.12E+09	1.04 Y	1.06	1.16	9.5%	
PCB-27 23'6'-TrCB	16.98	1.54E+09	1.04 Y	1.44	1.59	10.4%	
PCB-24 236'-TrCB	17.09	1.46E+09	1.03 Y	1.37	1.50	9.8%	
PCB-16 22'3'-TrCB	17.18	8.39E+08	1.04 Y	0.80	0.86	7.5%	
PCB-32 24'6'-TrCB	17.63	1.59E+09	1.03 Y	1.59	1.64	2.9%	
PCB-34 23'5'-TrCB	18.71	1.78E+09	1.08 Y	1.26	1.33	5.2%	
PCB-23 235'-TrCB	18.84	1.82E+09	1.06 Y	1.31	1.36	4.0%	
PCB-26/29 23'5'/245'-TrCB	19.11	3.78E+09	1.07 Y	1.33	1.41	6.0%	
PCB-25 23'4'-TrCB	19.30	1.87E+09	1.08 Y	1.33	1.40	5.3%	
PCB-31 24'5'-TrCB	19.57	1.91E+09	1.08 Y	1.39	1.43	3.0%	
PCB-28/20 244'/233'-TrCB	19.83	3.65E+09	1.05 Y	1.30	1.37	5.2%	
PCB-21/33 234'/23'4'-TrCB	20.00	3.78E+09	1.06 Y	1.34	1.41	5.2%	
PCB-22 234'-TrCB	20.36	1.70E+09	1.07 Y	1.22	1.27	4.7%	
PCB-36 33'5'-TrCB	21.69	1.90E+09	1.08 Y	1.35	1.42	5.5%	
PCB-39 34'5'-TrCB	22.00	1.98E+09	1.07 Y	1.40	1.48	6.1%	
PCB-38 345'-TrCB	22.49	1.73E+09	1.08 Y	1.25	1.30	3.7%	
PCB-35 33'4'-TrCB	22.88	1.73E+09	1.08 Y	1.23	1.29	4.9%	
PCB-37 344'-TrCB	23.23	1.82E+09	1.08 Y	1.28	1.36	6.1%	
PCB-54 22'66'-TeCB	17.48	1.35E+09	0.77 Y	1.00	1.05	5.3%	
PCB-50/53 22'46'/22'56'-TeCB	19.34	2.06E+09	0.78 Y	0.82	0.85	4.1%	
PCB-45 22'36'-TeCB	19.90	9.27E+08	0.77 Y	0.73	0.77	4.6%	
PCB-51 22'46'-TeCB	19.97	9.97E+08	0.78 Y	0.79	0.82	3.6%	
PCB-46 22'36'-TeCB	20.17	8.12E+08	0.78 Y	0.66	0.67	1.7%	
PCB-52 22'55'-TeCB	21.38	9.62E+08	0.77 Y	0.79	0.79	0.6%	
PCB-73 23'5'6'-TeCB	21.50	1.27E+09	0.77 Y	1.06	1.05	-0.9%	
PCB-43 22'35'-TeCB	21.58	8.61E+08	0.78 Y	0.64	0.71	10.9%	
PCB-69/49 23'46'/22'45'-TeCB	21.77	2.39E+09	0.78 Y	0.95	0.99	3.9%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:37			
Lab ID:	CS5_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 18:46						
Datafile:	130911S08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-48 22'45'-TeCB	22.04	9.93E+08	0.78 Y	0.79	0.82	4.3%	
PCB-44/47/65 ...-TeCB	22.25	3.15E+09	0.78 Y	0.84	0.87	3.0%	
PCB-59/62/75 ...-TeCB	22.51	3.99E+09	0.77 Y	1.07	1.10	2.2%	
PCB-42 22'34'-TeCB	22.67	8.88E+08	0.78 Y	0.72	0.73	1.8%	
PCB-41 22'34'-TeCB	22.99	8.45E+08	0.77 Y	0.66	0.70	6.3%	
PCB-71/40 23'4'6/22'33'-TeCB	23.09	1.99E+09	0.78 Y	0.79	0.82	3.3%	
PCB-64 23'4'6'-TeCB	23.28	1.43E+09	0.78 Y	1.13	1.18	3.8%	
PCB-72 23'55'-TeCB	23.99	1.66E+09	0.79 Y	1.31	1.37	4.4%	
PCB-68 23'45'-TeCB	24.24	1.80E+09	0.80 Y	1.43	1.48	4.1%	
PCB-57 23'35'-TeCB	24.59	1.58E+09	0.80 Y	1.26	1.31	3.7%	
PCB-58 23'35'-TeCB	24.79	1.63E+09	0.80 Y	1.30	1.34	3.1%	
PCB-67 23'45'-TeCB	24.94	1.72E+09	0.80 Y	1.35	1.42	5.1%	
PCB-63 23'45'-TeCB	25.16	1.80E+09	0.78 Y	1.42	1.49	4.9%	
PCB-61/70/74/76 ...-TeCB	25.44	6.62E+09	0.78 Y	1.32	1.37	3.5%	
PCB-66 23'44'-TeCB	25.72	1.55E+09	0.78 Y	1.26	1.28	1.4%	
PCB-55 23'34'-TeCB	25.86	1.58E+09	0.80 Y	1.24	1.30	5.6%	
PCB-56 23'34'-TeCB	26.28	1.51E+09	0.80 Y	1.22	1.25	2.1%	
PCB-60 23'44'-TeCB	26.46	1.61E+09	0.80 Y	1.29	1.33	3.4%	
PCB-80 33'55'-TeCB	26.82	1.81E+09	0.79 Y	1.42	1.50	5.6%	
PCB-79 33'45'-TeCB	28.11	1.79E+09	0.80 Y	1.47	1.47	0.4%	
PCB-78 33'45'-TeCB	28.57	1.52E+09	0.79 Y	1.23	1.25	1.6%	
PCB-104 22'466'-PeCB	22.18	1.28E+09	0.63 Y	1.06	1.10	4.6%	
PCB-96 22'366'-PeCB	22.50	1.11E+09	0.63 Y	0.90	0.96	6.2%	
PCB-103 22'45'6'-PeCB	24.14	8.48E+08	0.62 Y	0.84	0.88	5.2%	
PCB-94 22'356'-PeCB	24.33	7.28E+08	0.61 Y	0.73	0.76	4.1%	
PCB-95 22'35'6'-PeCB	24.71	7.86E+08	0.63 Y	0.78	0.82	5.1%	
PCB-100/93 22'44'6/22'356'-PeCB	24.89	1.55E+09	0.63 Y	0.77	0.81	4.2%	
PCB-102 22'456'-PeCB	25.01	8.66E+08	0.63 Y	0.83	0.90	8.3%	
PCB-98 22'34'6'-PeCB	25.07	7.42E+08	0.64 Y	0.75	0.77	2.9%	
PCB-88 22'346'-PeCB	25.36	7.47E+08	0.62 Y	0.74	0.78	4.8%	
PCB-91 22'34'6'-PeCB	25.44	8.32E+08	0.62 Y	0.83	0.87	4.5%	
PCB-84 22'33'6'-PeCB	25.62	6.56E+08	0.62 Y	0.66	0.68	3.2%	
PCB-89 22'346'-PeCB	26.02	6.99E+08	0.61 Y	0.69	0.73	4.9%	
PCB-121 23'45'6'-PeCB	26.38	1.07E+09	0.61 Y	1.06	1.12	5.4%	
PCB-92 22'355'-PeCB	26.70	7.42E+08	0.63 Y	0.73	0.77	5.9%	
PCB-113/90/101 ...-PeCB	27.17	2.58E+09	0.63 Y	0.85	0.90	5.1%	
PCB-83 22'33'5'-PeCB	27.59	6.08E+08	0.62 Y	0.65	0.63	-2.0%	
PCB-99 22'44'5'-PeCB	27.68	8.94E+08	0.63 Y	0.84	0.93	10.7%	
PCB-112 233'56'-PeCB	27.78	1.00E+09	0.63 Y	1.00	1.04	4.5%	
PCB-109/119/86/97/125...-PeCB	28.12	5.19E+09	0.62 Y	0.87	0.90	3.5%	
PCB-117 234'56'-PeCB	28.64	8.36E+08	0.62 Y	0.88	0.87	-0.7%	
PCB-116/85 23456/22'344'-PeCB	28.71	1.92E+09	0.63 Y	0.91	1.00	9.2%	
PCB-110 233'4'6'-PeCB	28.86	1.01E+09	0.62 Y	0.99	1.06	6.8%	

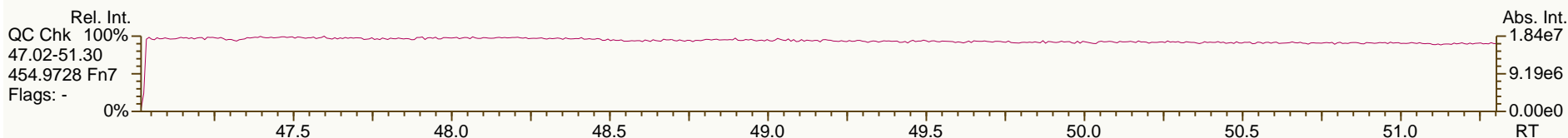
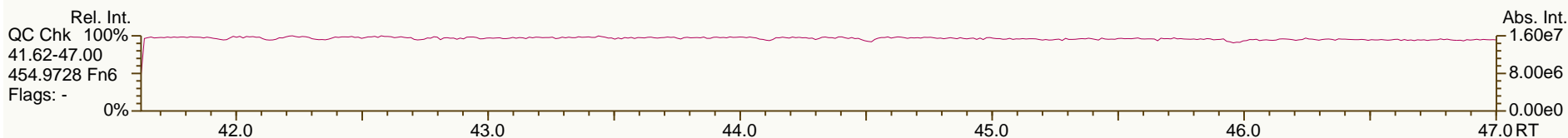
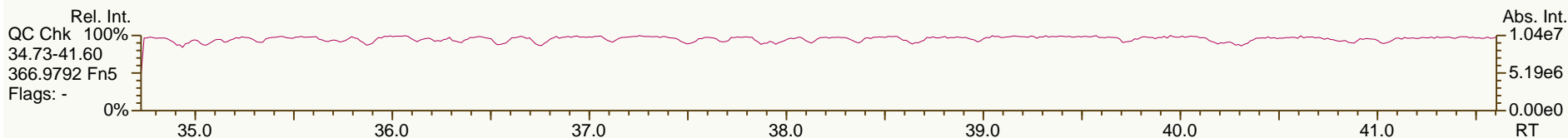
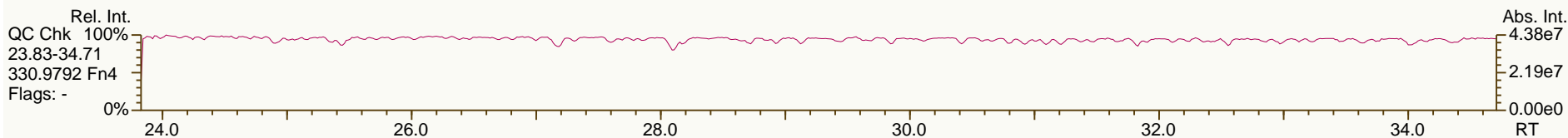
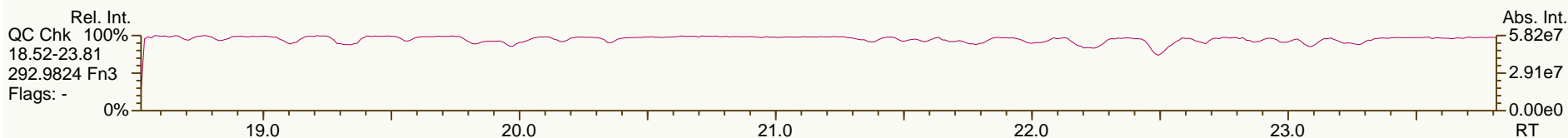
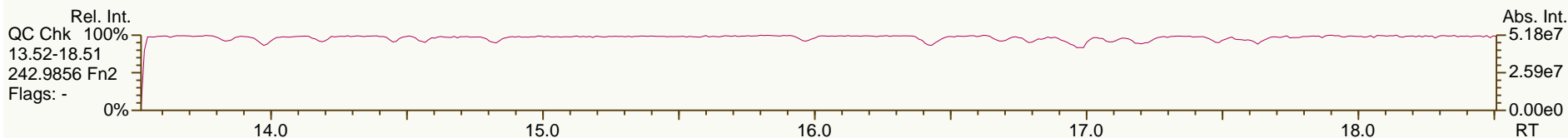
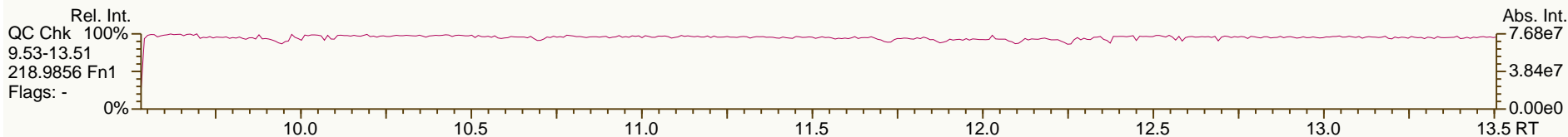
PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:37			
Lab ID:	CS5_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 18:46						
Datafile:	130911S08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-115 2344'6'-PeCB	28.92	1.00E+09	0.62 Y	1.01	1.04	3.1%	
PCB-82 22'33'4'-PeCB	29.12	6.33E+08	0.63 Y	0.62	0.66	5.6%	
PCB-111 233'55'-PeCB	29.46	1.06E+09	0.61 Y	1.07	1.11	3.6%	
PCB-120 23'455'-PeCB	29.85	1.07E+09	0.63 Y	1.07	1.12	4.1%	
PCB-108/124 ...-PeCB	30.80	2.00E+09	0.63 Y	0.98	1.04	5.9%	
PCB-107 233'4'5'-PeCB	31.01	1.12E+09	0.63 Y	1.07	1.17	9.1%	
PCB-106 233'45'-PeCB	31.20	9.98E+08	0.63 Y	1.00	1.04	4.0%	
PCB-122 233'4'5'-PeCB	31.67	9.27E+08	0.62 Y	0.89	0.95	6.6%	
PCB-127 33'455'-PeCB	33.61	1.01E+09	0.63 Y	0.98	1.05	6.4%	
PCB-155 22'44'66'-HxCB	27.00	1.28E+09	1.26 Y	1.12	1.18	5.4%	
PCB-152 22'3566'-HxCB	27.16	1.21E+09	1.26 Y	1.05	1.12	6.2%	
PCB-150 22'34'66'-HxCB	27.30	1.21E+09	1.26 Y	1.07	1.12	4.6%	
PCB-136 22'33'66'-HxCB	27.61	1.15E+09	1.26 Y	0.99	1.06	6.8%	
PCB-145 22'3466'-HxCB	27.86	1.15E+09	1.25 Y	1.00	1.06	6.6%	
PCB-148 22'34'56'-HxCB	29.14	8.83E+08	1.25 Y	1.03	1.06	3.5%	
PCB-151/135 ...-HxCB	29.65	1.70E+09	1.25 Y	1.00	1.02	2.2%	
PCB-154 22'44'56'-HxCB	29.85	9.80E+08	1.26 Y	1.13	1.18	4.8%	
PCB-144 22'345'6'-HxCB	30.11	8.74E+08	1.26 Y	1.03	1.05	2.3%	
PCB-147/149 ...-HxCB	30.41	1.76E+09	1.26 Y	1.03	1.06	3.4%	
PCB-134 22'33'56'-HxCB	30.58	6.86E+08	1.24 Y	0.84	0.83	-1.1%	
PCB-143 22'3456'-HxCB	30.66	8.70E+08	1.26 Y	0.95	1.05	10.5%	
PCB-139/140 ...-HxCB	30.92	1.79E+09	1.25 Y	1.05	1.08	2.8%	
PCB-131 22'33'46'-HxCB	31.09	7.75E+08	1.25 Y	0.87	0.93	6.8%	
PCB-142 22'3456'-HxCB	31.21	7.75E+08	1.25 Y	0.91	0.93	2.7%	
PCB-132 22'33'46'-HxCB	31.47	7.77E+08	1.25 Y	0.92	0.94	1.9%	
PCB-133 22'33'55'-HxCB	31.90	8.20E+08	1.26 Y	0.97	0.99	2.3%	
PCB-165 233'55'6'-HxCB	32.23	1.01E+09	1.25 Y	1.19	1.22	2.1%	
PCB-146 22'34'55'-HxCB	32.44	9.01E+08	1.25 Y	1.08	1.09	0.1%	
PCB-161 233'45'6'-HxCB	32.55	1.14E+09	1.26 Y	1.34	1.37	1.9%	
PCB-153/168 ...-HxCB	32.98	2.17E+09	1.26 Y	1.26	1.31	4.1%	
PCB-141 22'3455'-HxCB	33.12	8.29E+08	1.25 Y	0.98	1.00	1.9%	
PCB-130 22'33'45'-HxCB	33.46	7.37E+08	1.26 Y	0.88	0.89	1.2%	
PCB-137 22'344'5'-HxCB	33.65	9.11E+08	1.25 Y	1.07	1.10	2.3%	
PCB-164 233'4'5'6'-HxCB	33.74	1.12E+09	1.26 Y	1.29	1.35	4.4%	
PCB-163/138/129 ...-HxCB	34.02	2.69E+09	1.26 Y	1.05	1.08	3.1%	
PCB-160 233'456'-HxCB	34.14	1.12E+09	1.26 Y	1.26	1.34	7.1%	
PCB-158 233'44'6'-HxCB	34.33	1.21E+09	1.26 Y	1.40	1.45	3.7%	
PCB-128/166 ...-HxCB	35.05	1.69E+09	1.24 Y	0.89	0.94	5.9%	
PCB-159 233'455'-HxCB	35.89	9.84E+08	1.26 Y	1.04	1.09	5.1%	
PCB-162 233'4'55'-HxCB	36.14	9.81E+08	1.24 Y	1.04	1.09	5.1%	
PCB-188 22'34'566'-HpCB	31.82	1.20E+09	1.04 Y	0.97	1.01	4.0%	
PCB-179 22'33'566'-HpCB	32.10	1.11E+09	1.06 Y	0.89	0.93	4.0%	
PCB-184 22'344'66'-HpCB	32.55	1.08E+09	1.04 Y	0.87	0.91	4.2%	

PCB QC Summary - Ax2 Detail				Printed: 12-Sep-2013 16:37			
Lab ID:	CS5_130911_PCB_SB	ICAL: MM4_PCB_07122013_11SEP2013					
Acquired:	11-SEP-2013 18:46						
Datafile:	130911S08						
Name	RT	Response	RA	ICAL	RRF	Dev'n	
PCB-176 22'33'466'-HpCB	32.84	1.20E+09	1.03 Y	0.97	1.01	4.6%	
PCB-186 22'34566'-HpCB	33.23	1.14E+09	1.05 Y	0.93	0.96	2.8%	
PCB-178 22'33'55'6'-HpCB	34.39	8.40E+08	1.05 Y	0.67	0.71	4.7%	
PCB-175 22'33'45'6'-HpCB	34.92	7.74E+08	1.04 Y	0.97	1.00	2.9%	
PCB-187 22'34'55'6'-HpCB	35.15	8.09E+08	1.04 Y	1.02	1.05	2.9%	
PCB-182 22'344'56'-HpCB	35.32	8.23E+08	1.04 Y	1.05	1.07	1.4%	
PCB-183 22'344'5'6'-HpCB	35.66	8.42E+08	1.03 Y	1.07	1.09	2.2%	
PCB-185 22'3455'6'-HpCB	35.74	8.02E+08	1.04 Y	0.96	1.04	8.5%	
PCB-174 22'33'456'-HpCB	35.86	6.90E+08	1.03 Y	0.86	0.89	4.4%	
PCB-177 22'33'45'6'-HpCB	36.23	6.87E+08	1.03 Y	0.83	0.89	6.7%	
PCB-181 22'344'56'-HpCB	36.56	8.08E+08	1.04 Y	1.00	1.05	5.1%	
PCB-171/173 ...-HpCB	36.75	1.40E+09	1.04 Y	0.86	0.90	4.6%	
PCB-172 22'33'455'-HpCB	38.12	7.08E+08	1.03 Y	0.87	0.92	5.0%	
PCB-192 233'455'6'-HpCB	38.36	9.43E+08	1.03 Y	1.19	1.22	3.0%	
PCB-180/193 ...-HpCB	38.64	1.77E+09	1.03 Y	1.11	1.15	3.2%	
PCB-191 233'44'5'6'-HpCB	38.96	9.76E+08	1.05 Y	1.23	1.26	2.4%	
PCB-170 22'33'44'5'-HpCB	39.72	6.99E+08	1.04 Y	1.01	1.06	5.0%	
PCB-190 233'44'56'-HpCB	40.17	9.80E+08	1.03 Y	1.42	1.48	4.7%	
PCB-202 22'33'55'66'-OcCB	36.34	8.76E+08	0.89 Y	0.83	0.88	5.7%	
PCB-201 22'33'45'66'-OcCB	37.11	9.77E+08	0.89 Y	0.94	0.98	3.9%	
PCB-204 22'344'566'-OcCB	37.68	9.21E+08	0.89 Y	0.87	0.92	6.1%	
PCB-197 22'33'44'66'-OcCB	37.87	1.02E+09	0.89 Y	0.97	1.02	4.8%	
PCB-200 22'33'4566'-OcCB	37.96	9.18E+08	0.89 Y	0.89	0.92	3.7%	
PCB-198/199 ...-OcCB	40.30	1.38E+09	0.88 Y	0.66	0.69	5.4%	
PCB-196 22'33'44'56'-OcCB	40.87	7.12E+08	0.89 Y	0.70	0.71	1.4%	
PCB-203 22'344'55'6'-OcCB	41.03	7.47E+08	0.89 Y	0.74	0.75	1.6%	
PCB-195 22'33'44'56'-OcCB	42.14	5.53E+08	0.91 Y	0.78	0.82	4.9%	
PCB-194 22'33'44'55'-OcCB	44.11	6.03E+08	0.91 Y	0.85	0.89	5.4%	
PCB-205 233'44'55'6'-OcCB	44.50	7.70E+08	0.91 Y	1.08	1.14	5.6%	
PCB-208 22'33'455'66'-NoCB	41.94	7.76E+08	0.78 Y	0.99	1.03	3.6%	
PCB-207 22'33'44'566'-NoCB	42.72	8.10E+08	0.78 Y	1.03	1.07	4.8%	
PCB-206 22'33'44'55'6'-NoCB	45.96	5.71E+08	0.76 Y	0.83	0.86	4.2%	

SGS-AP ID: CS5_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 55

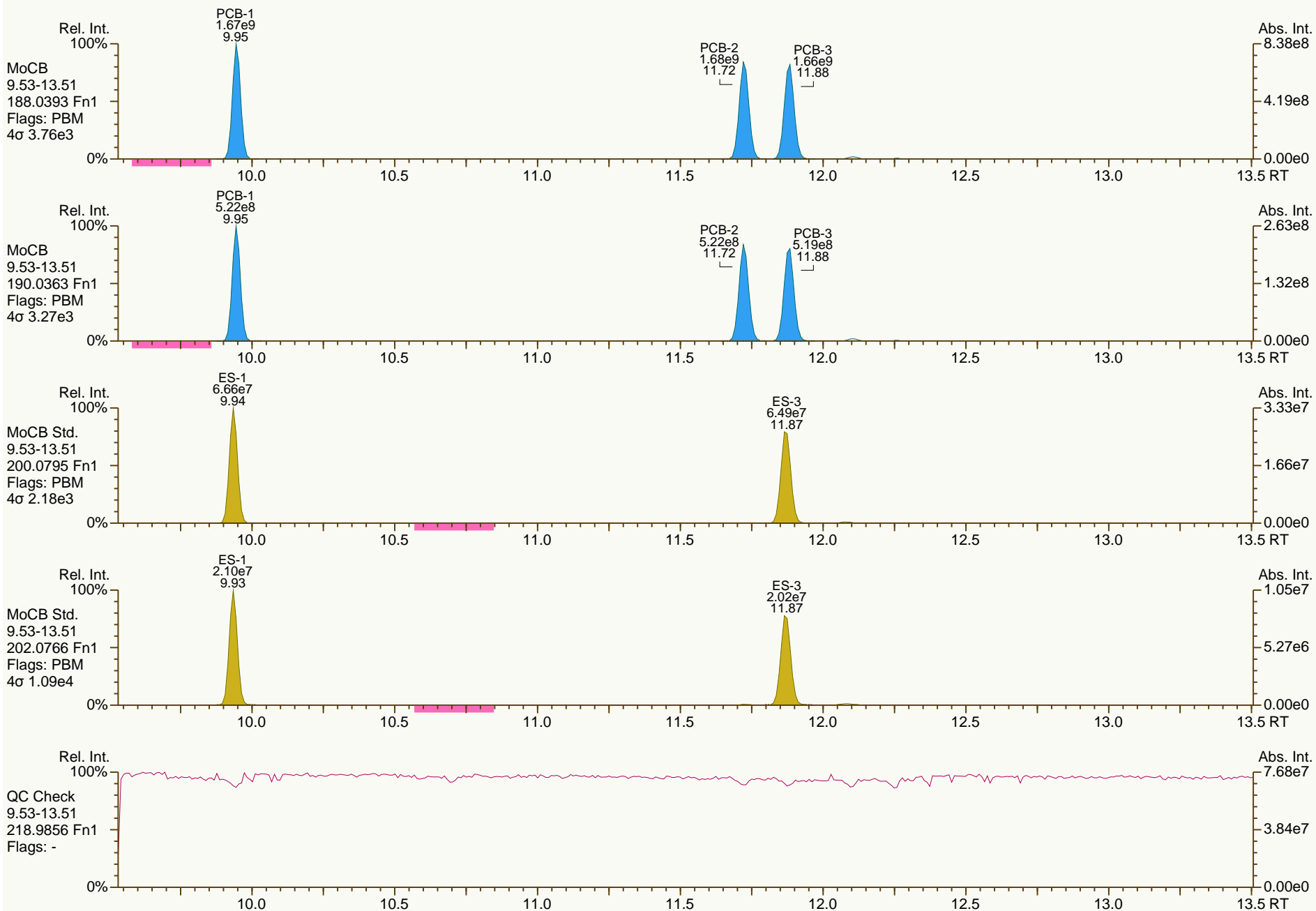
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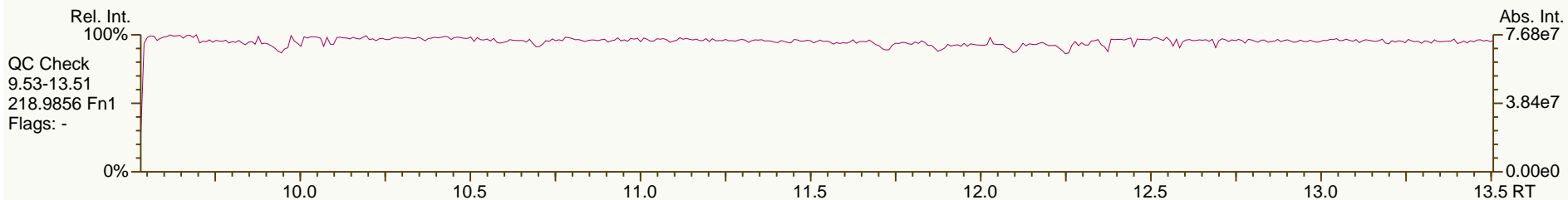
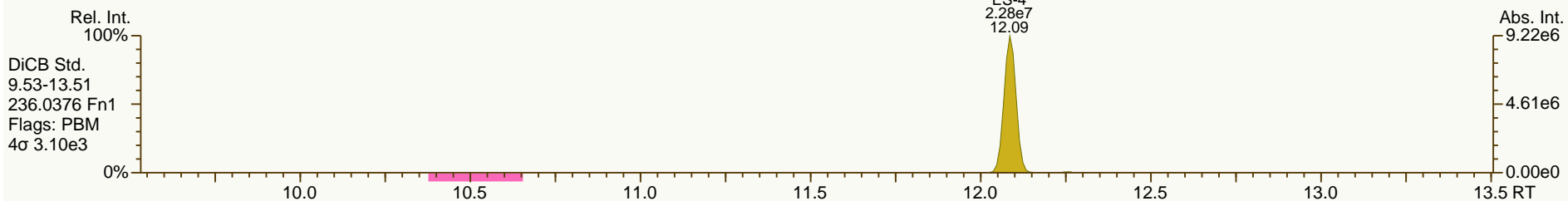
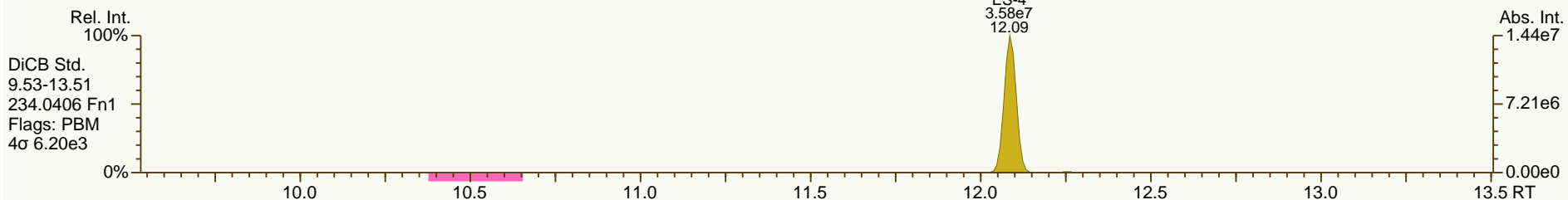
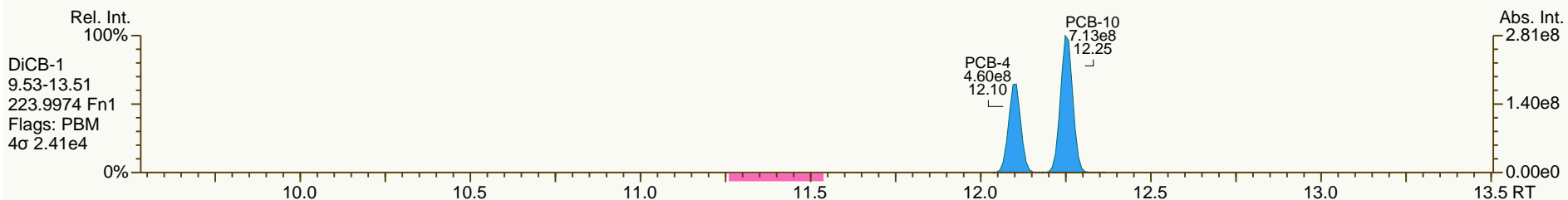
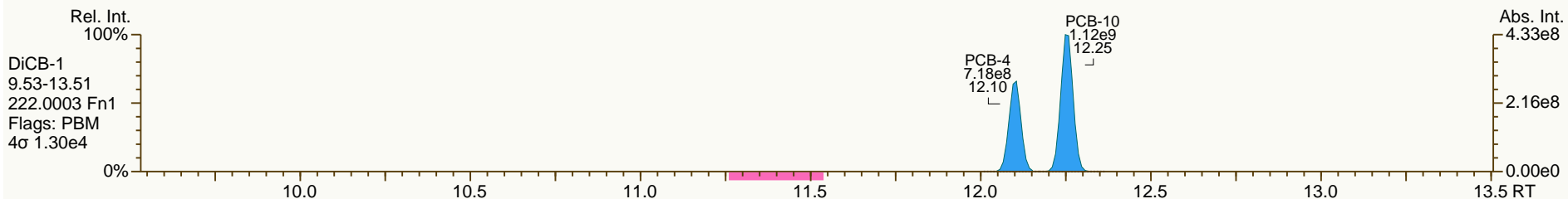
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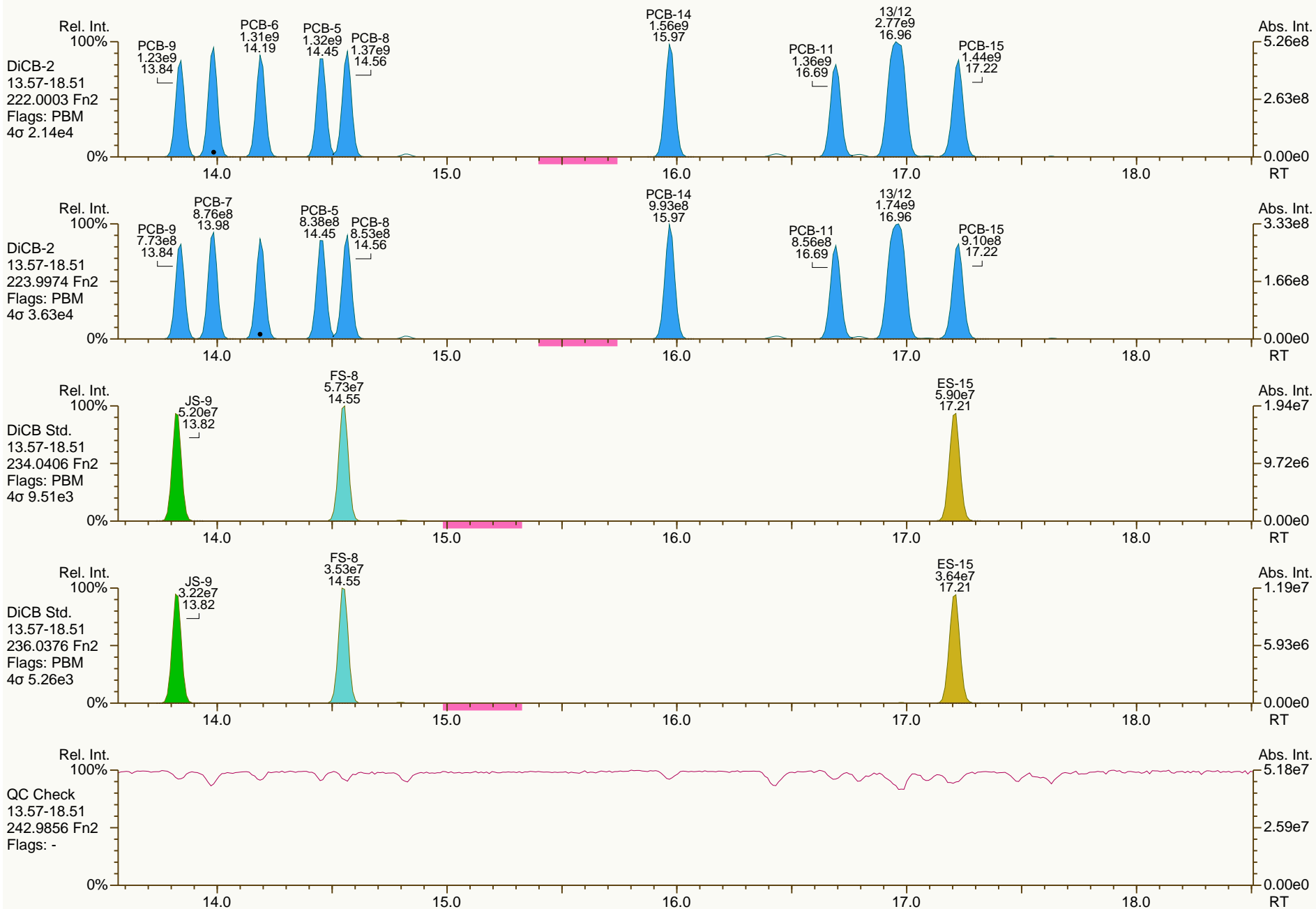
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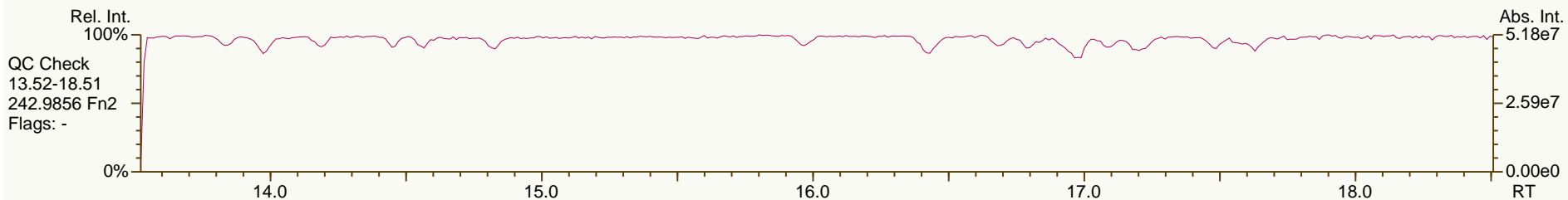
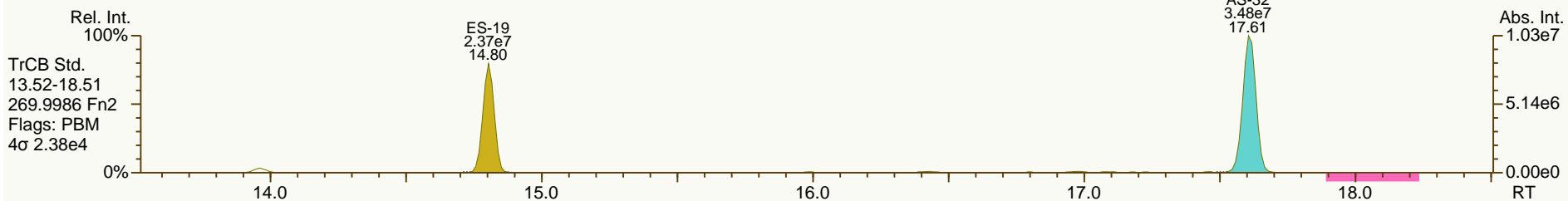
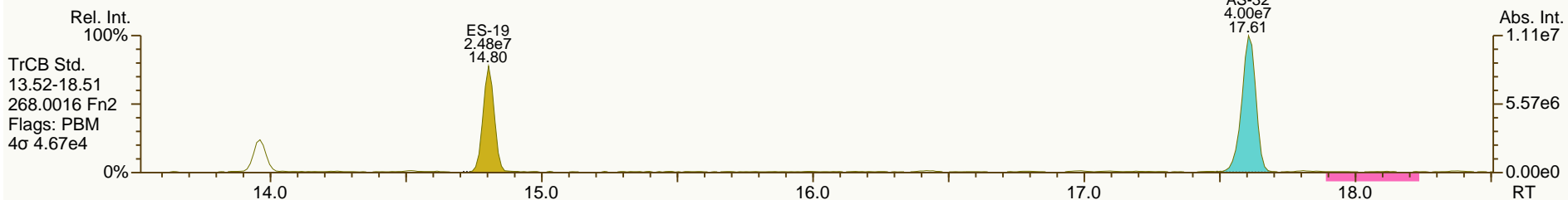
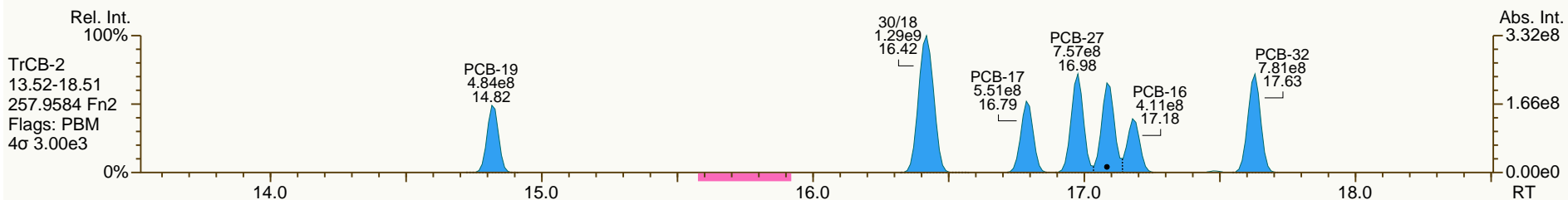
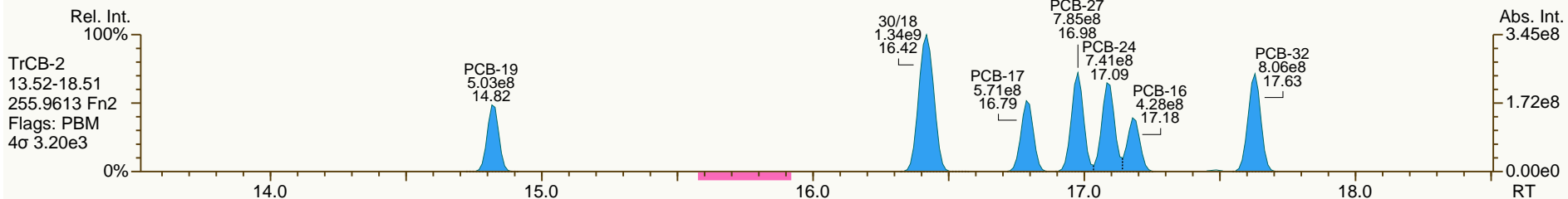
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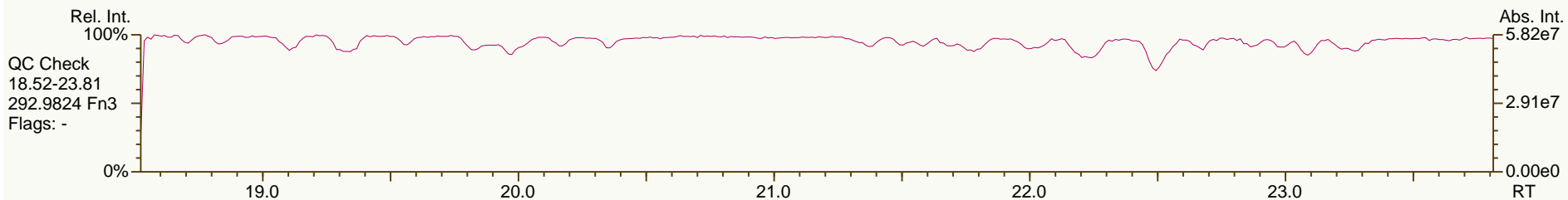
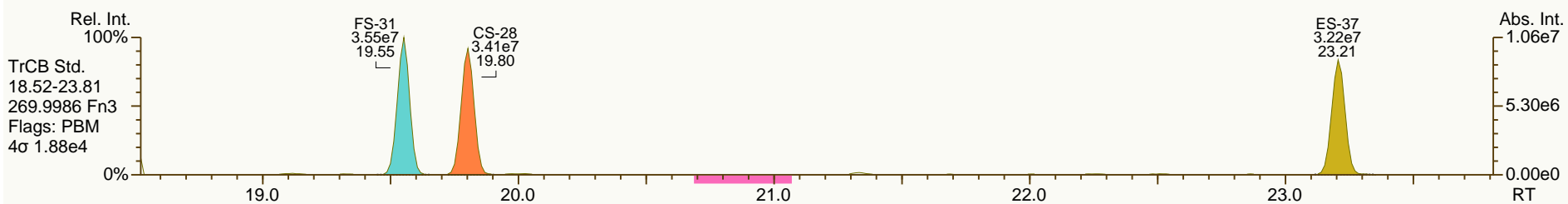
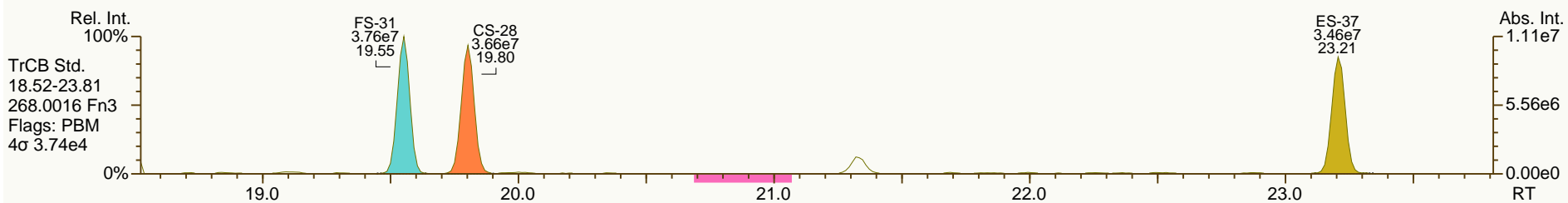
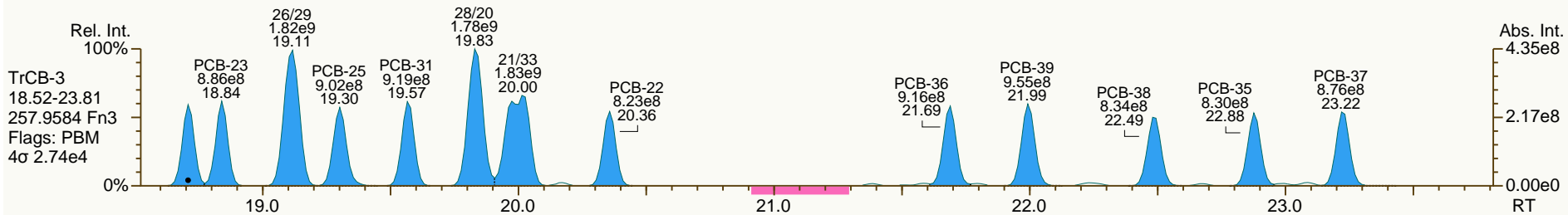
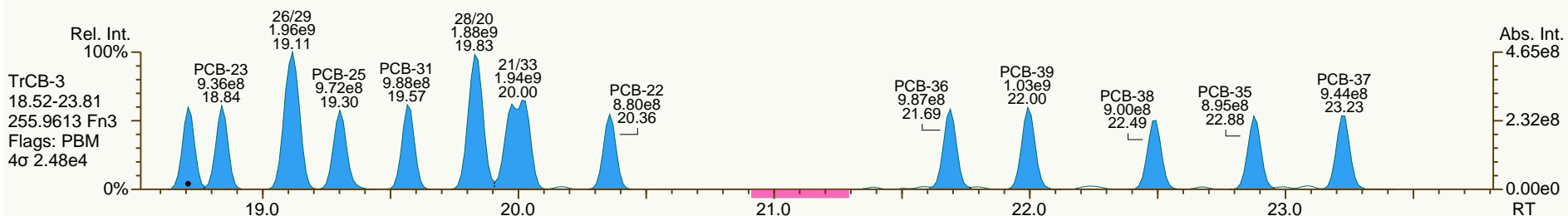
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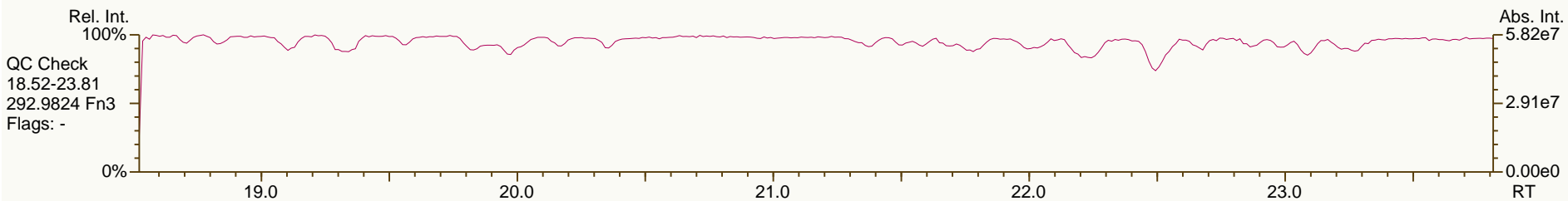
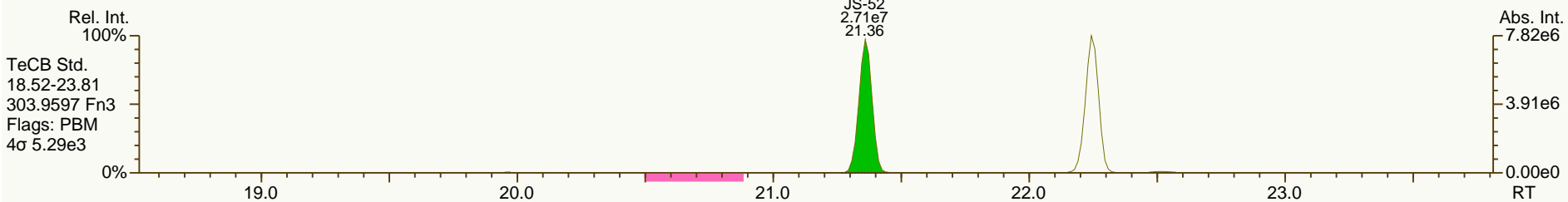
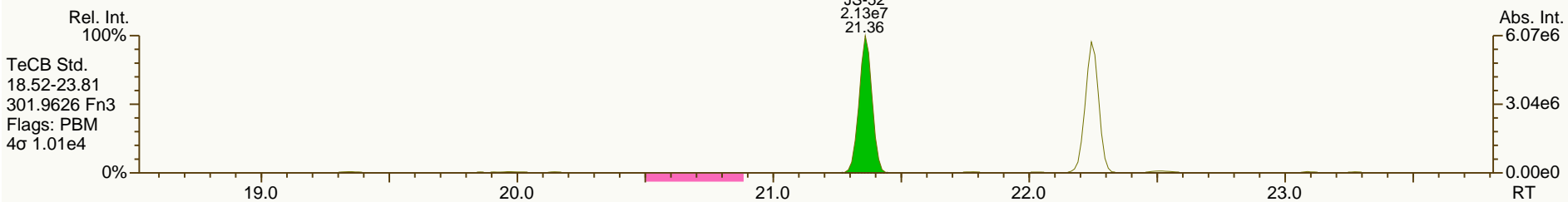
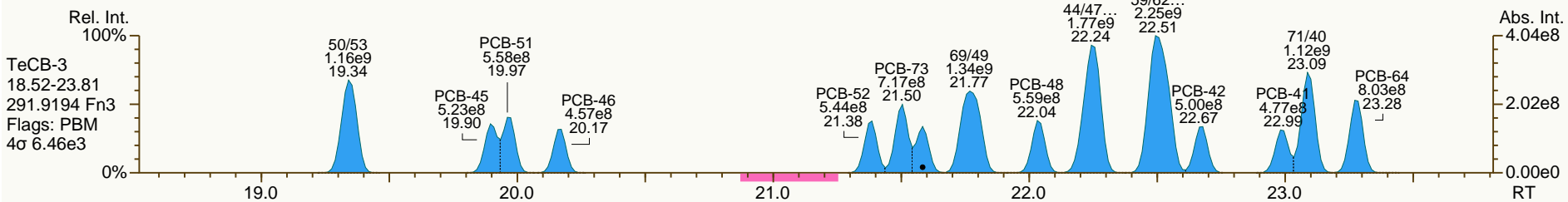
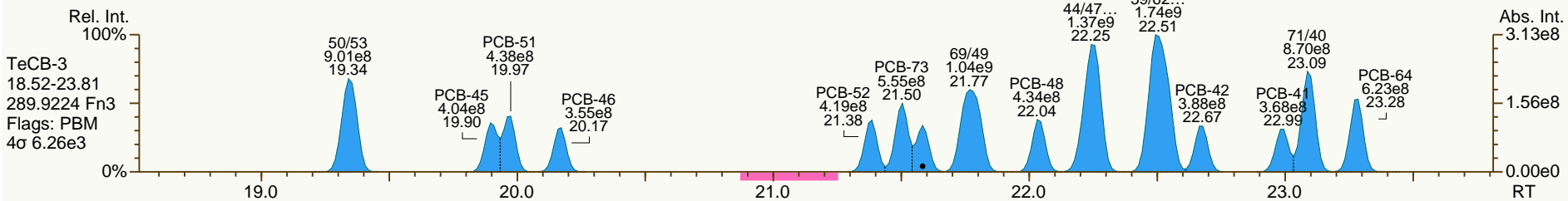
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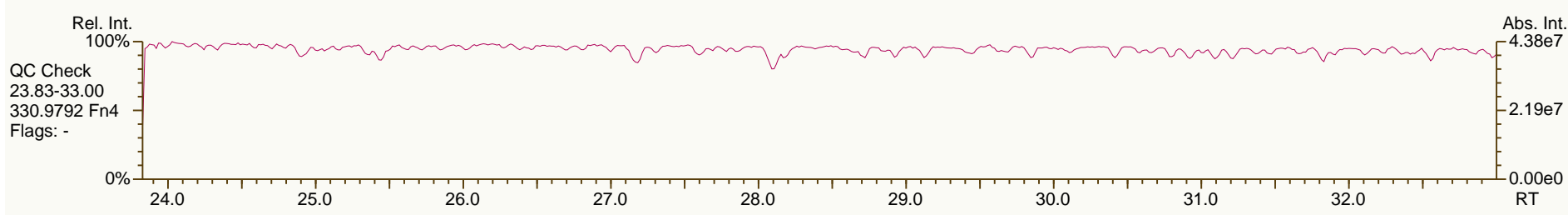
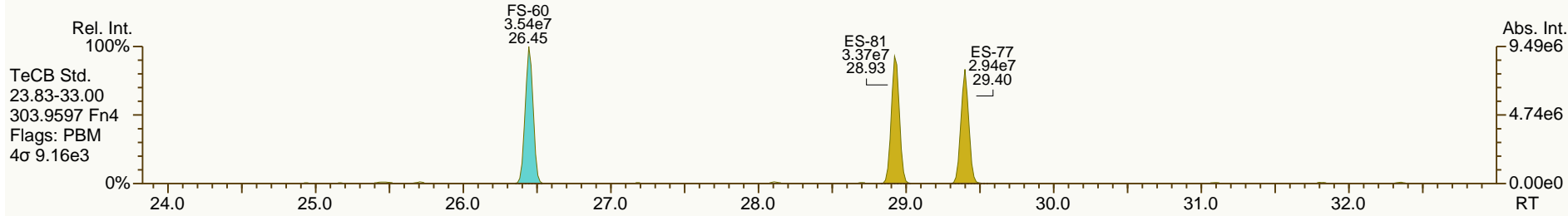
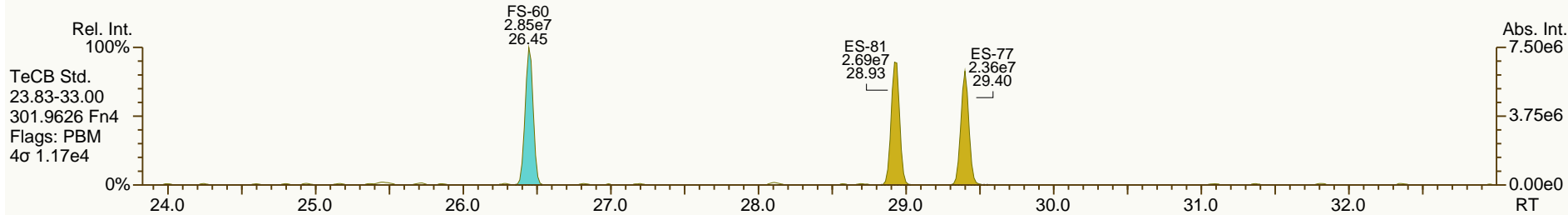
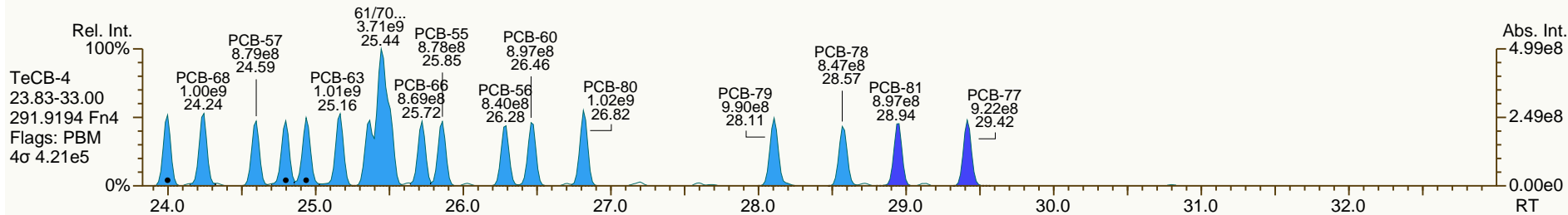
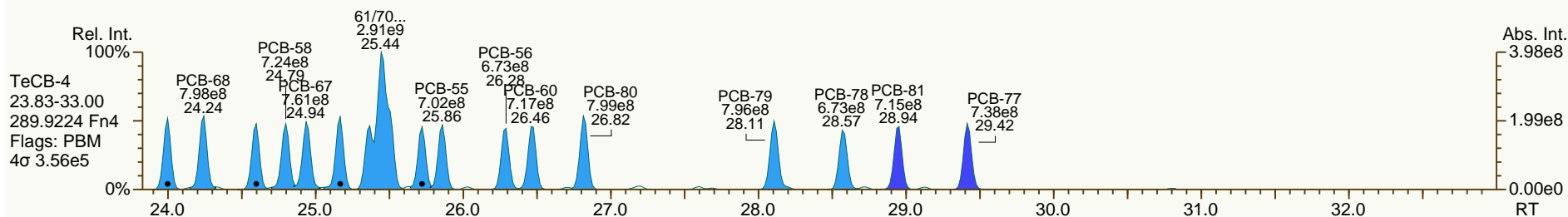
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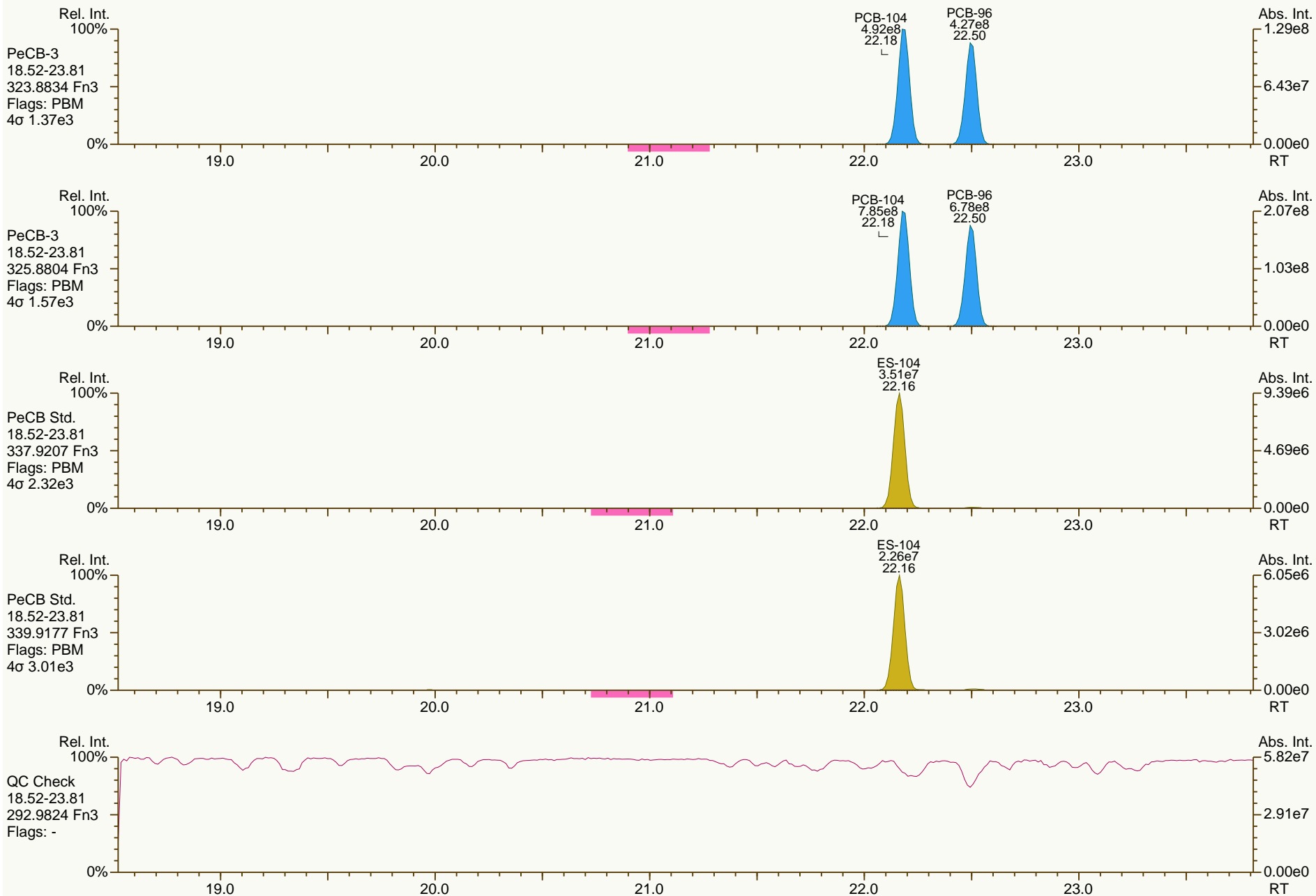
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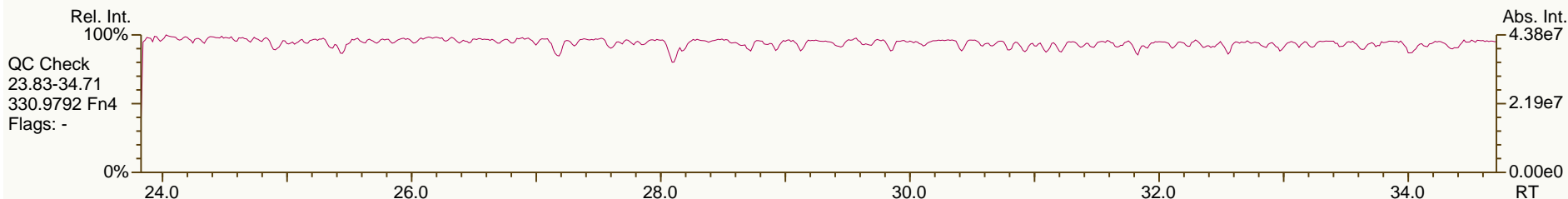
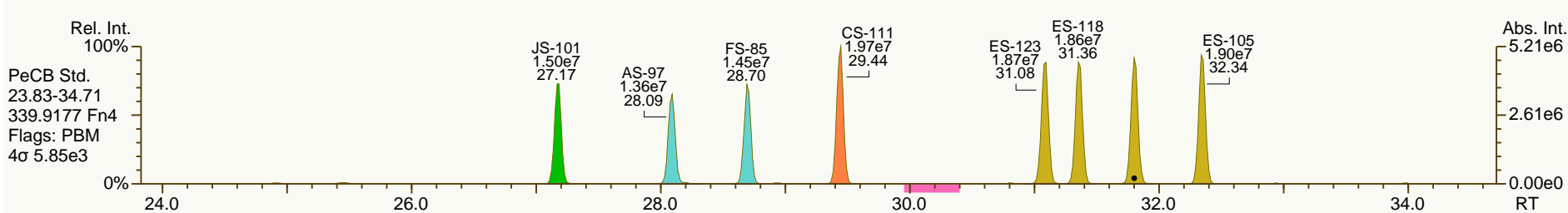
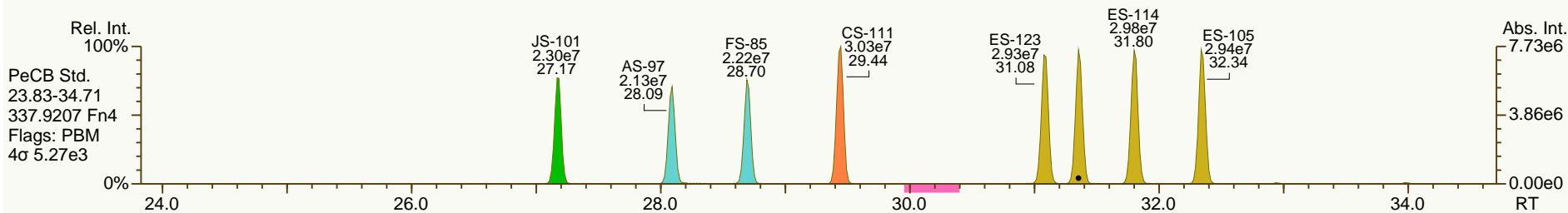
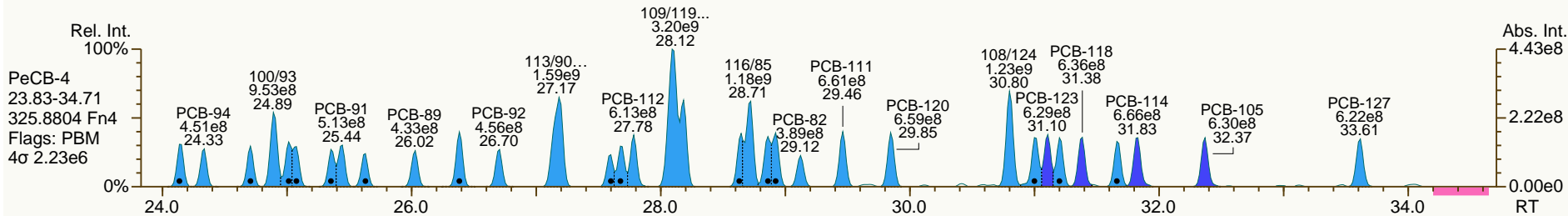
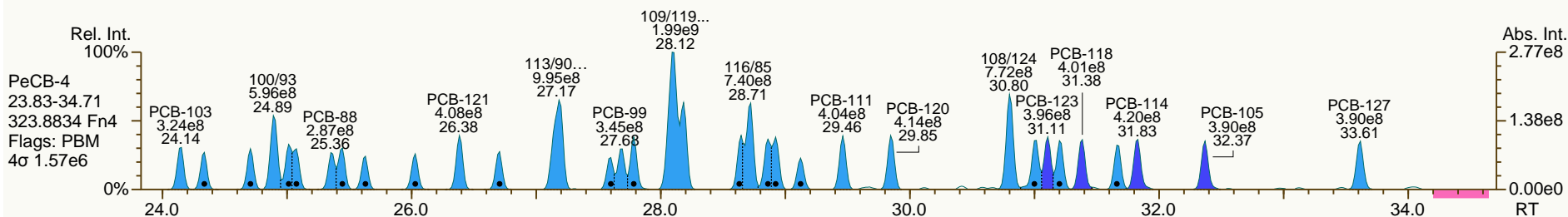
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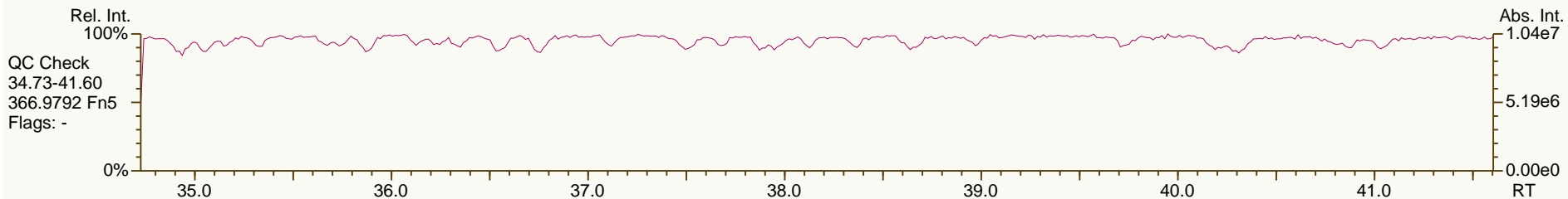
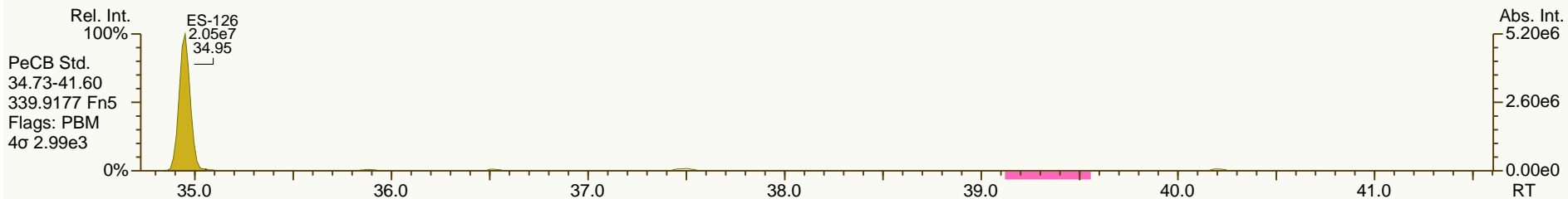
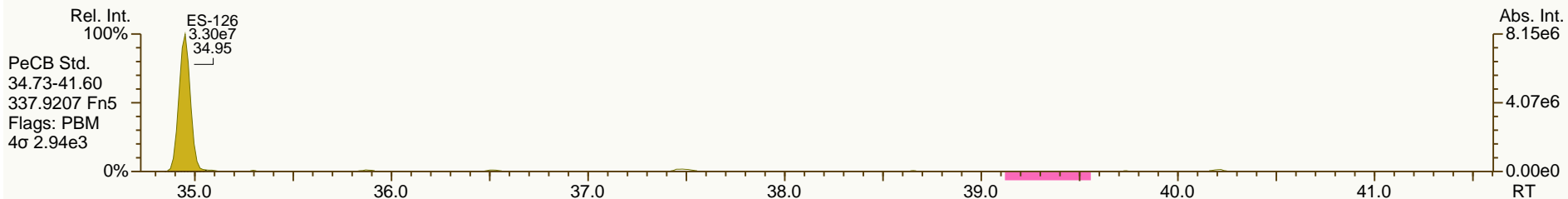
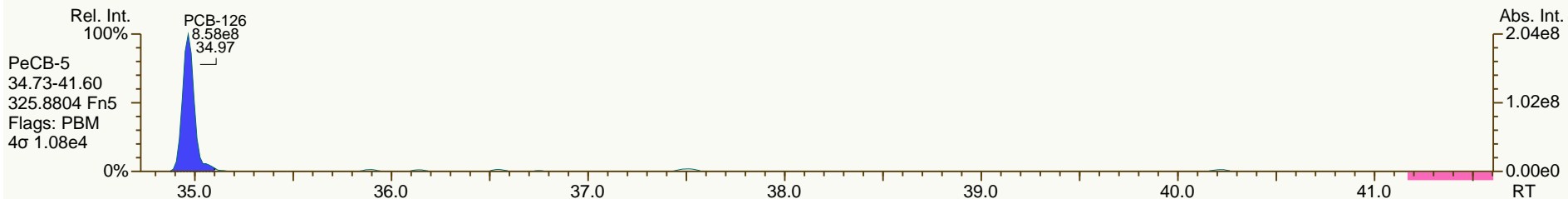
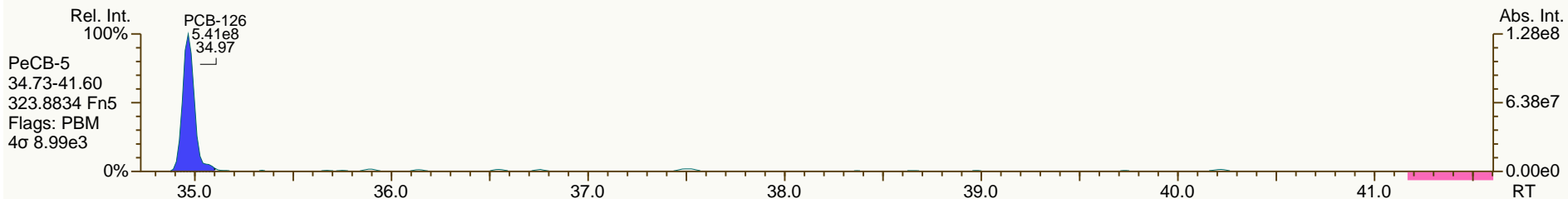
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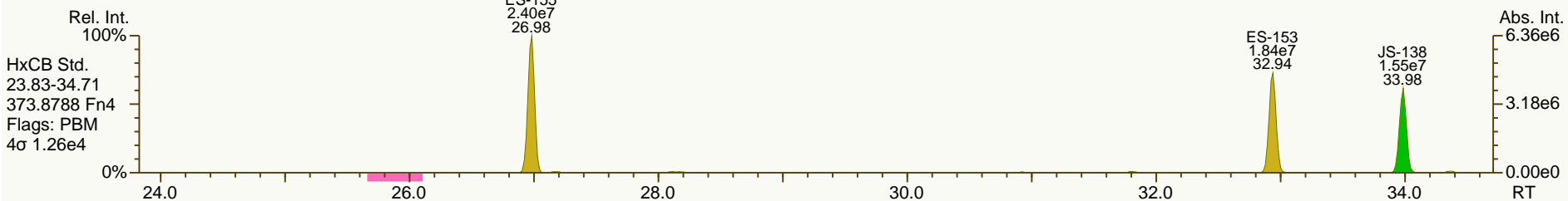
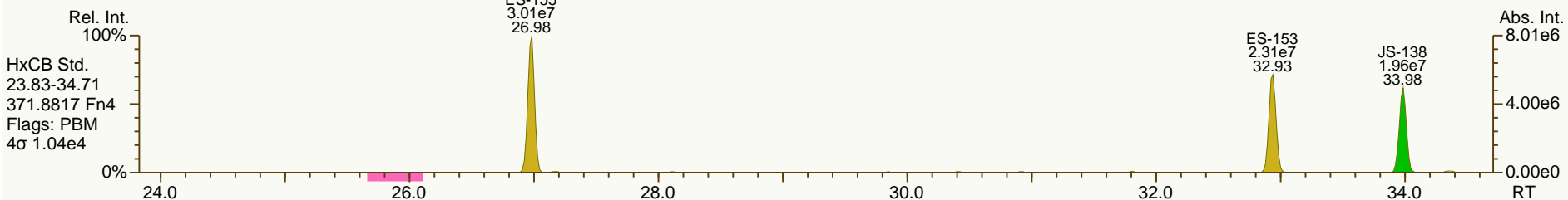
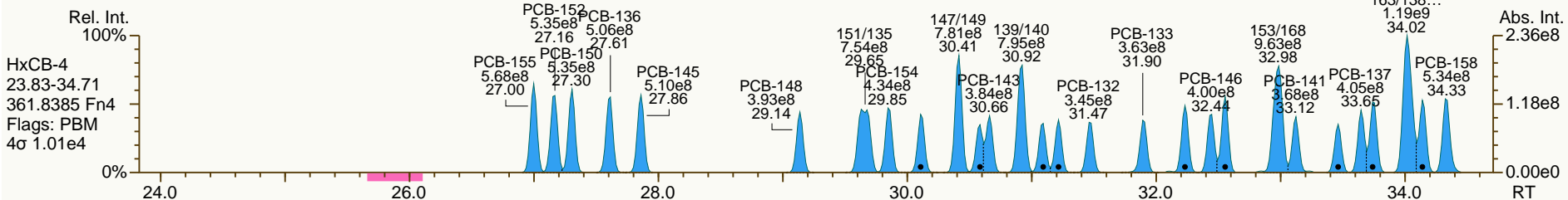
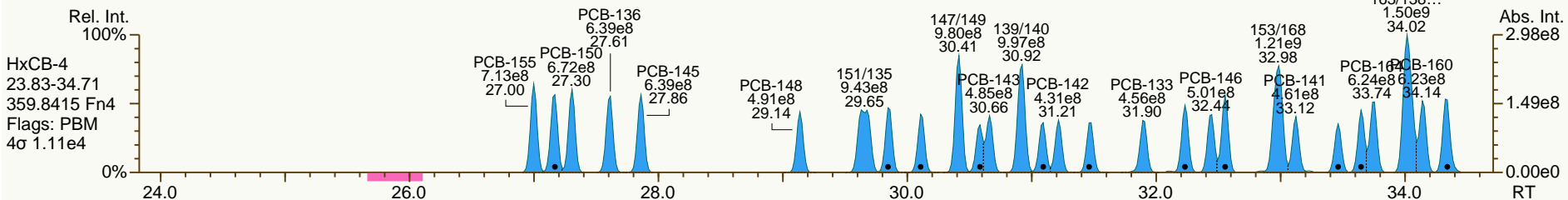
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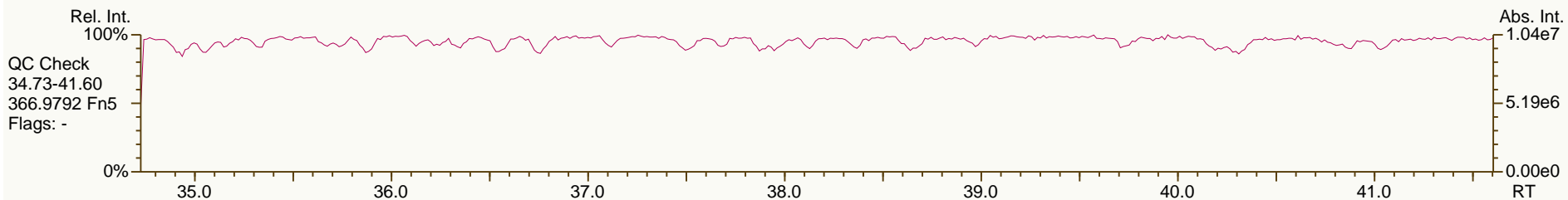
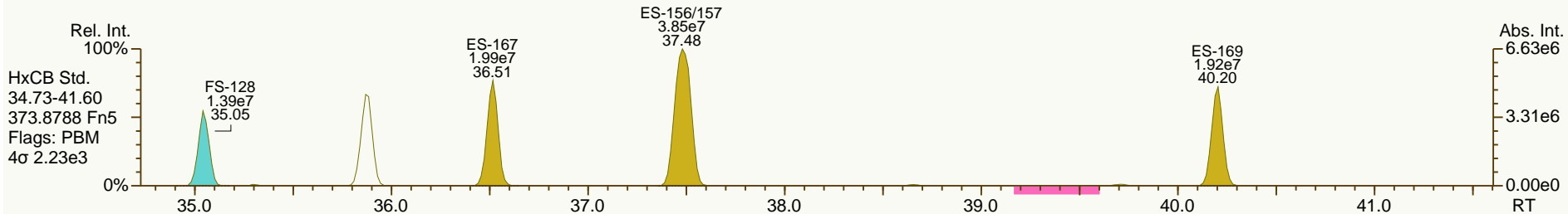
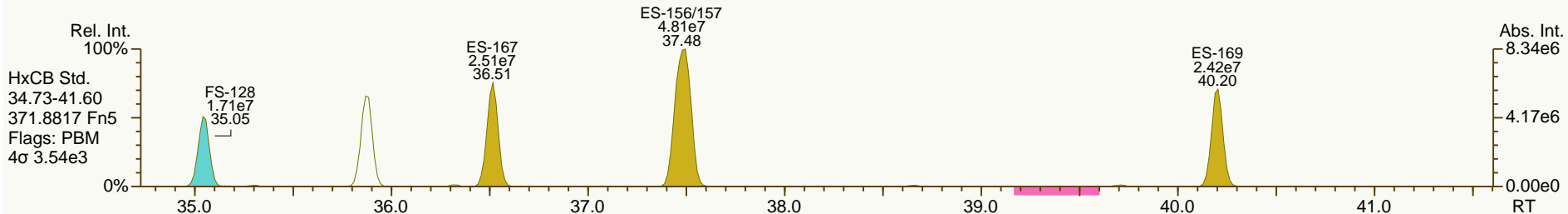
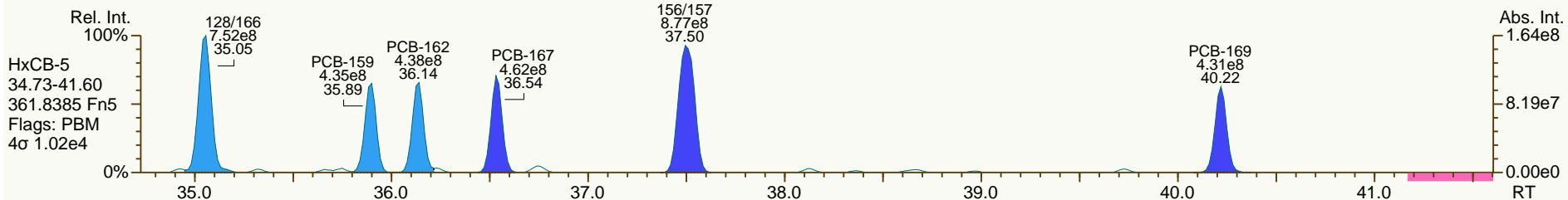
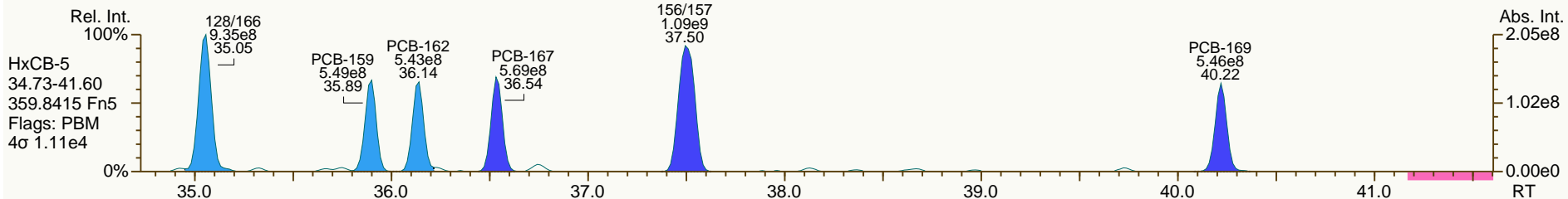
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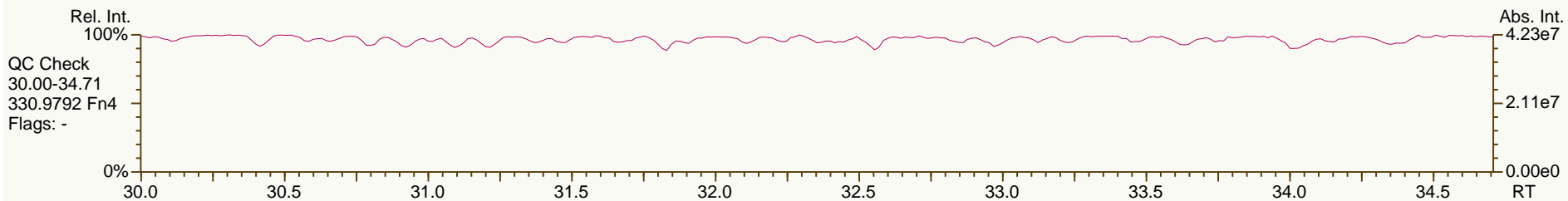
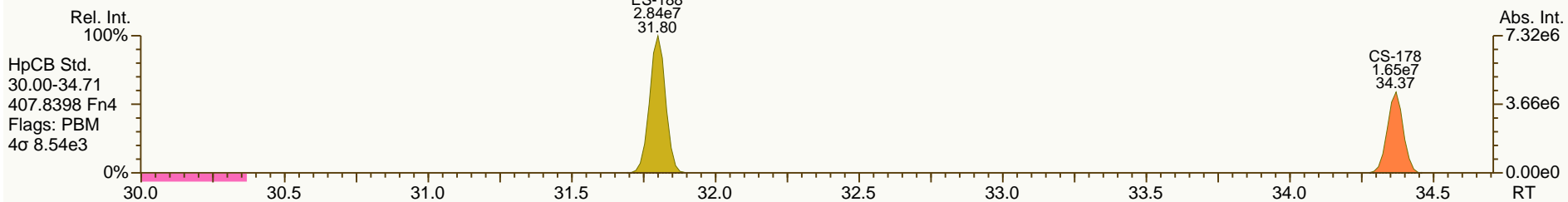
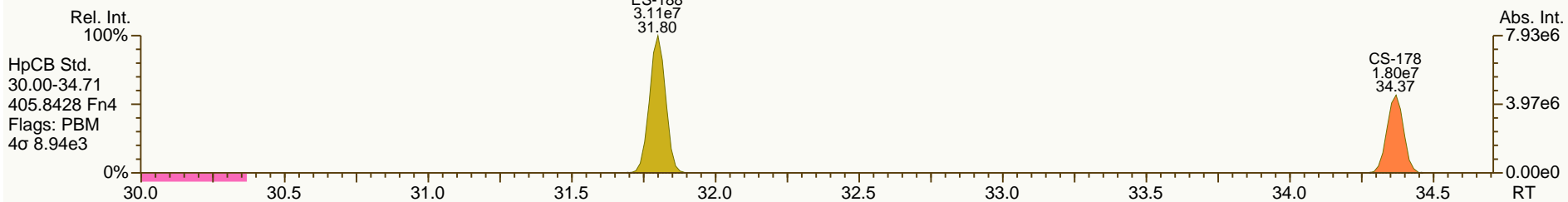
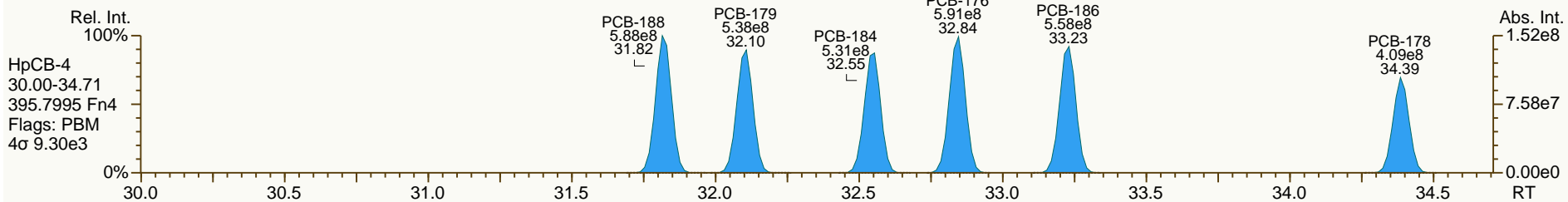
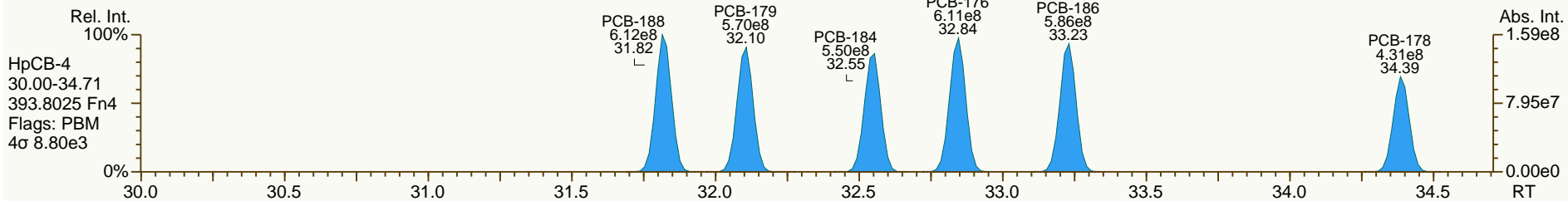
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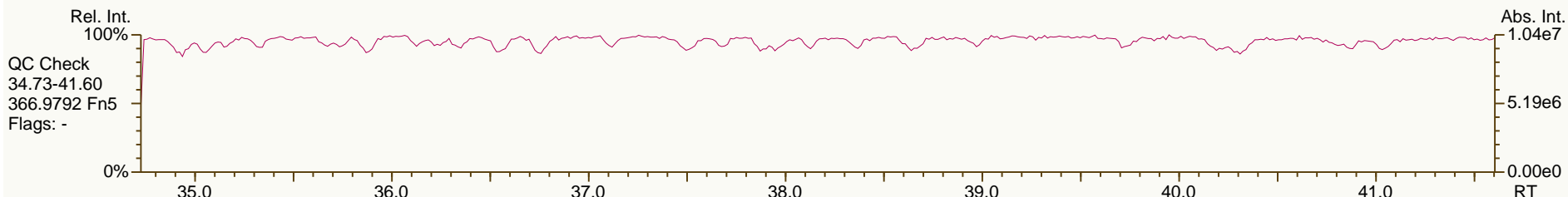
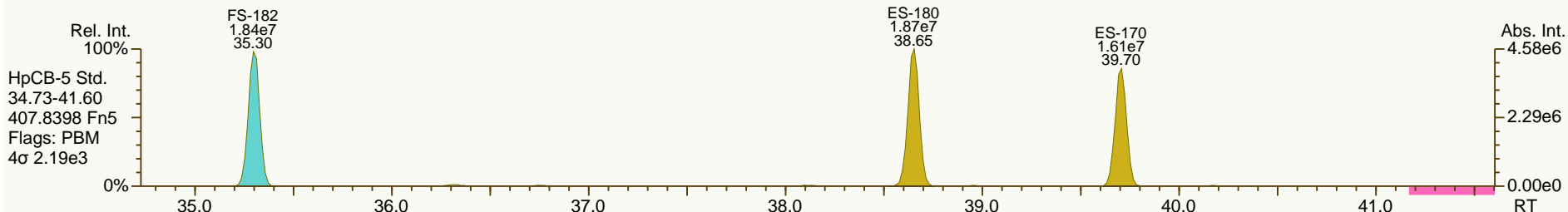
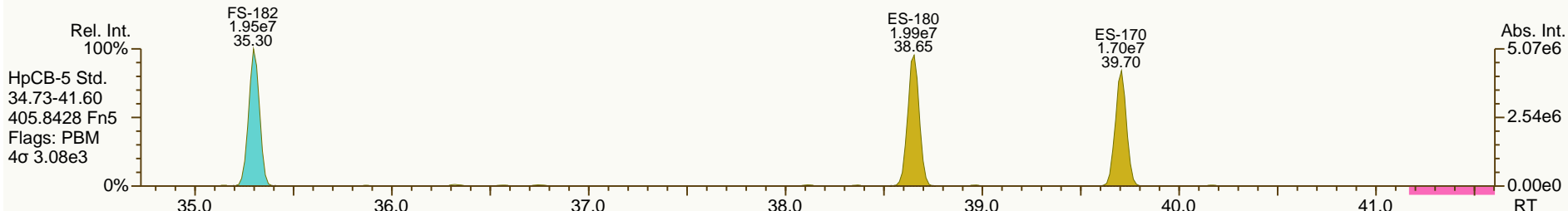
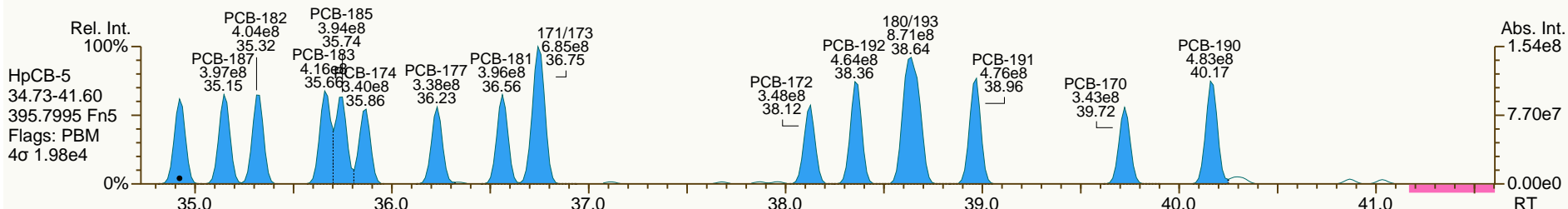
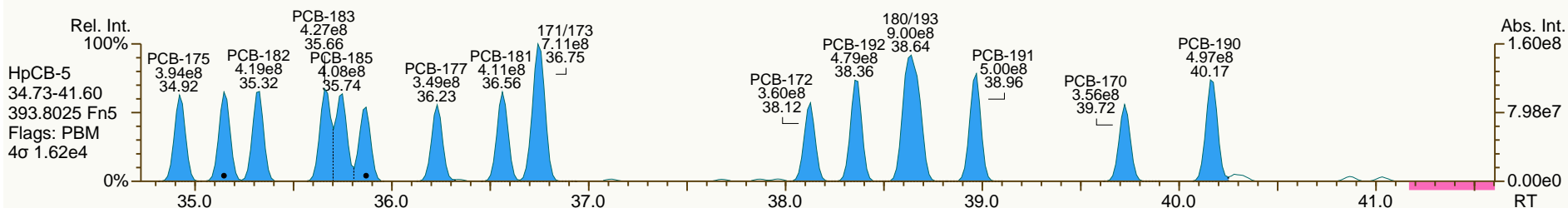
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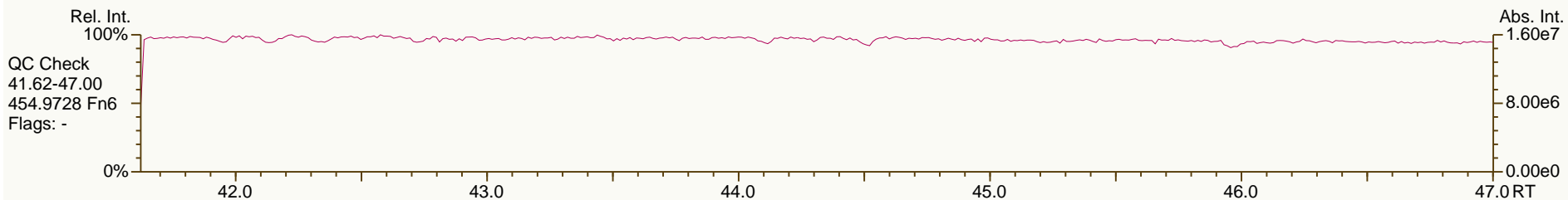
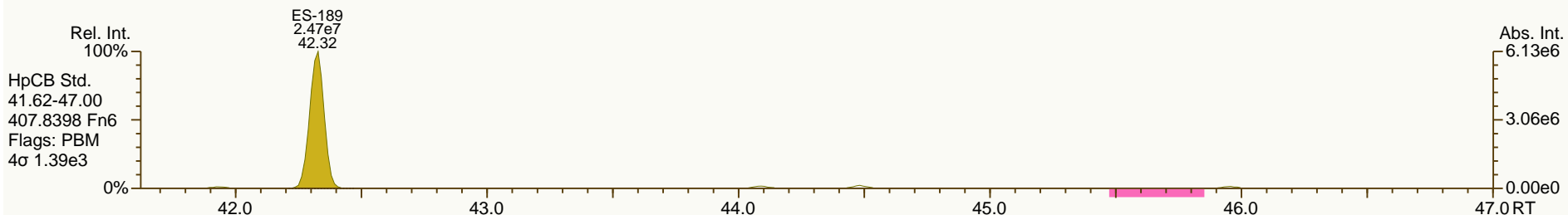
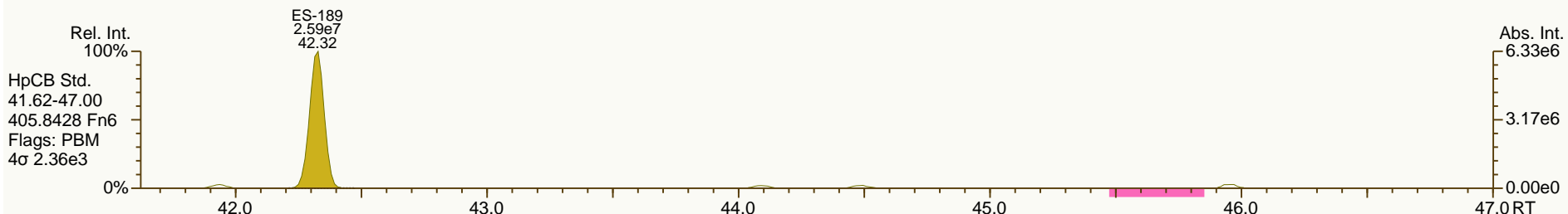
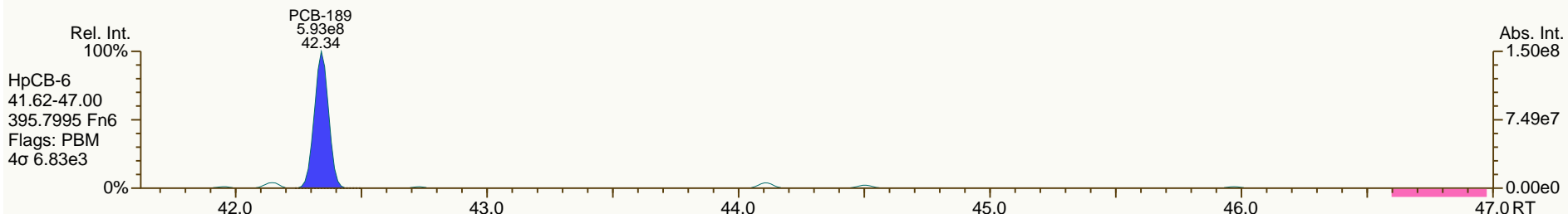
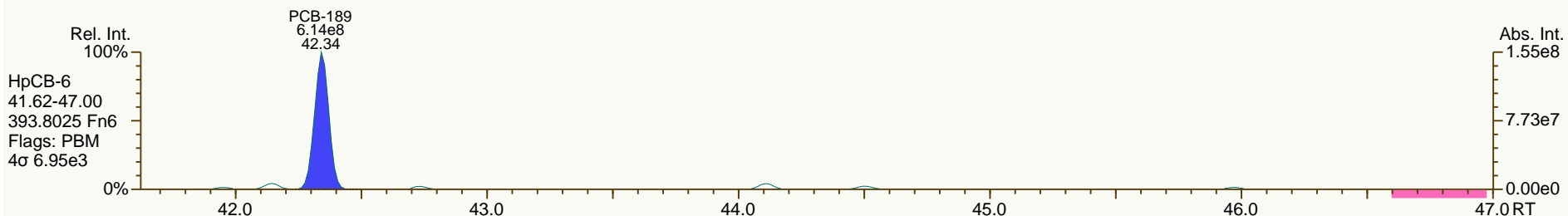
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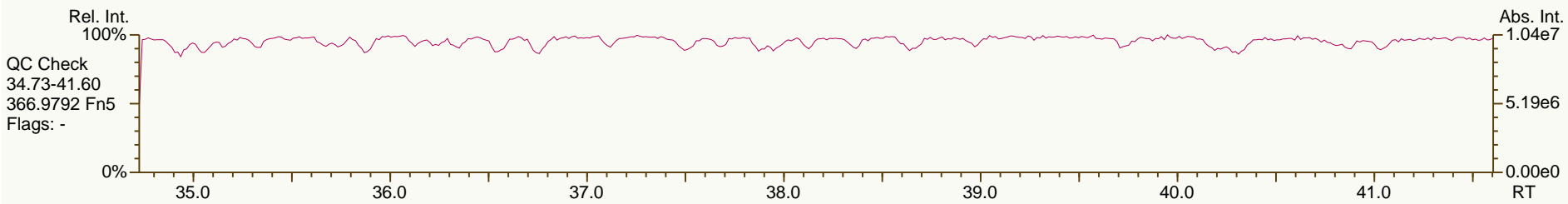
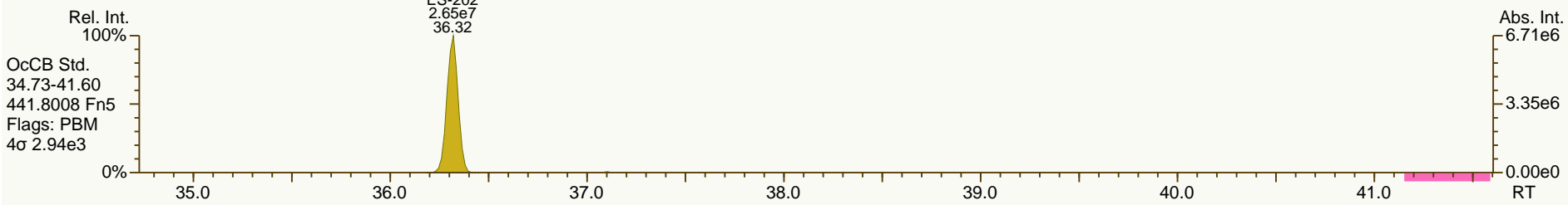
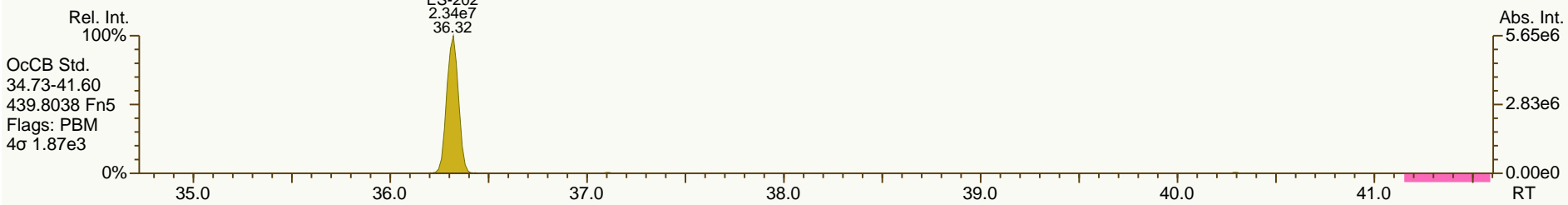
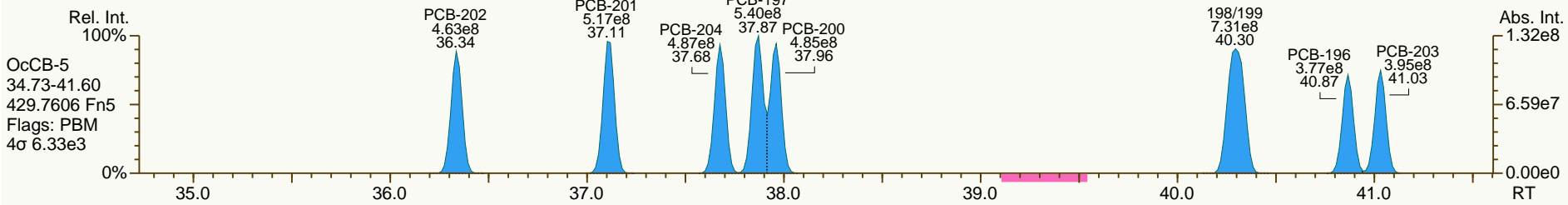
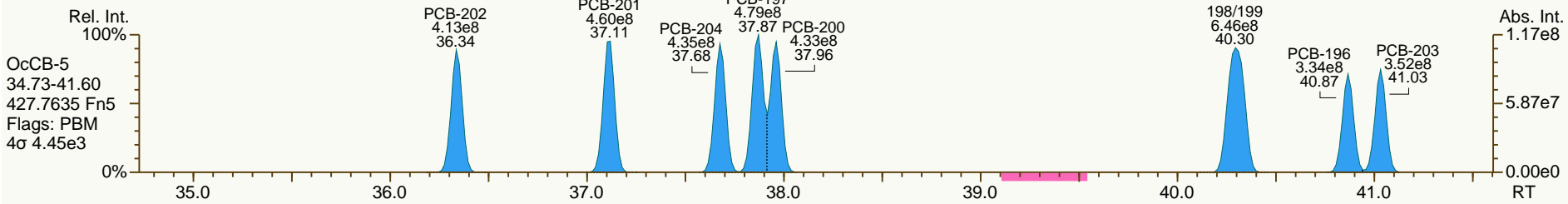
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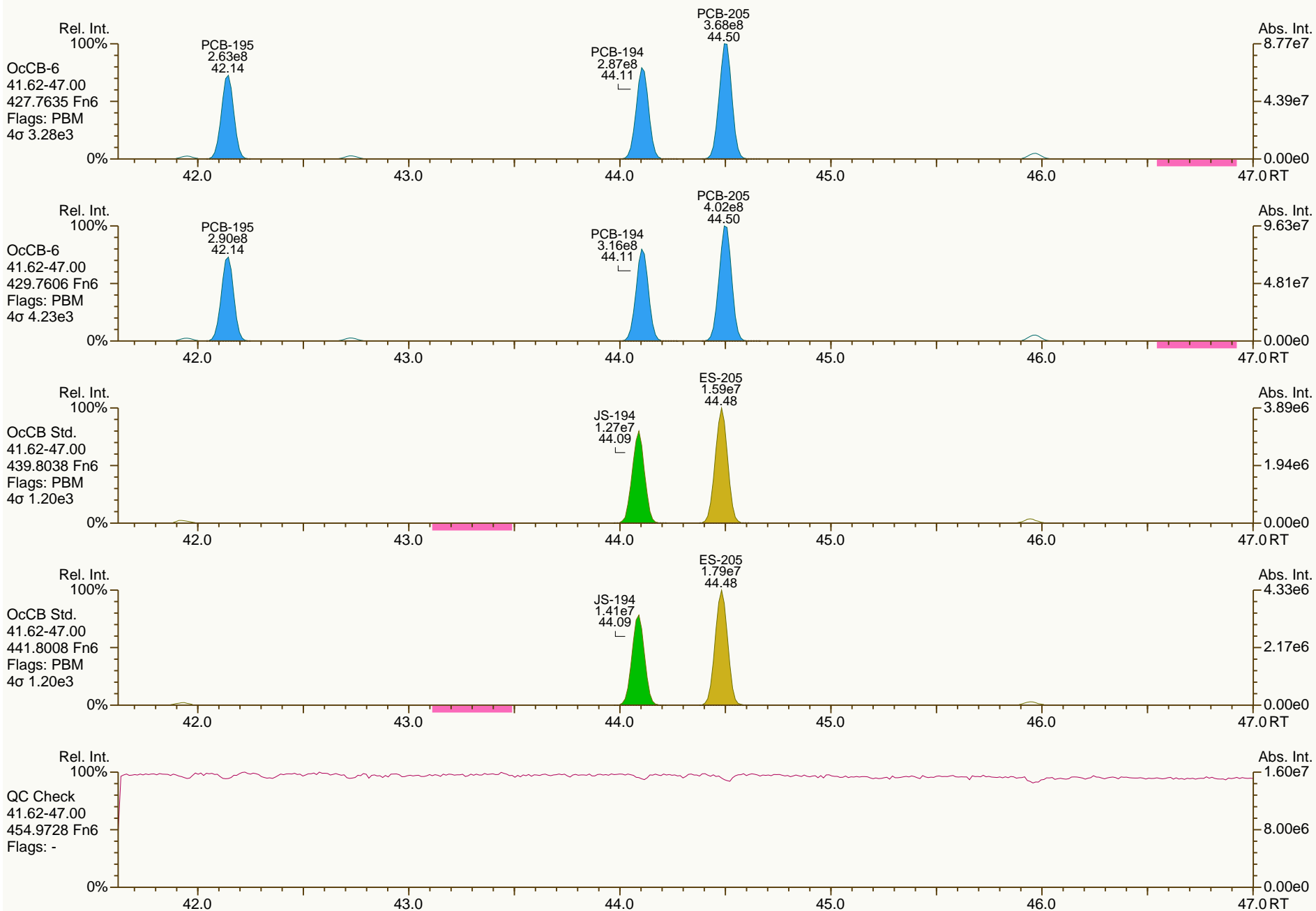
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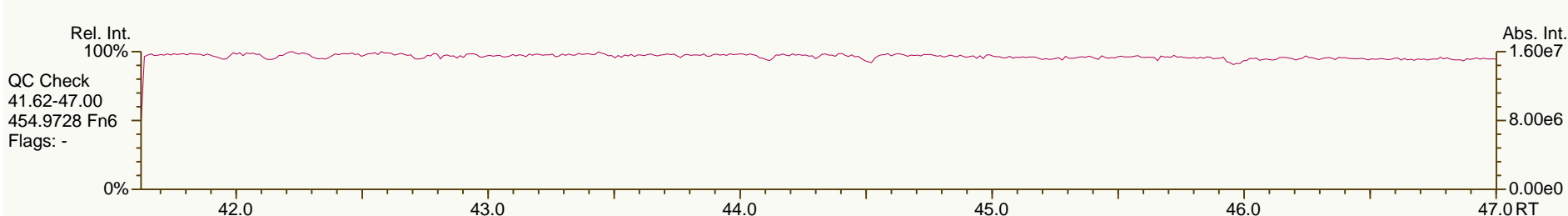
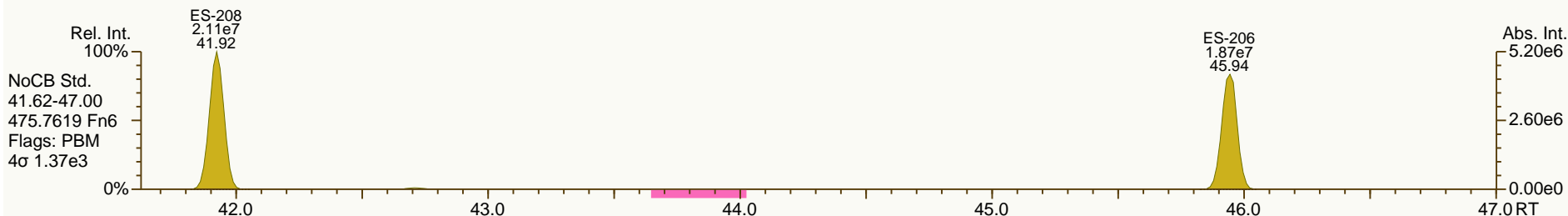
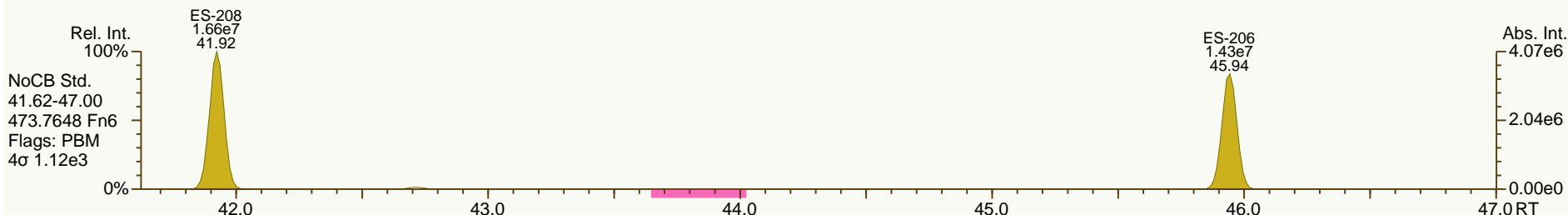
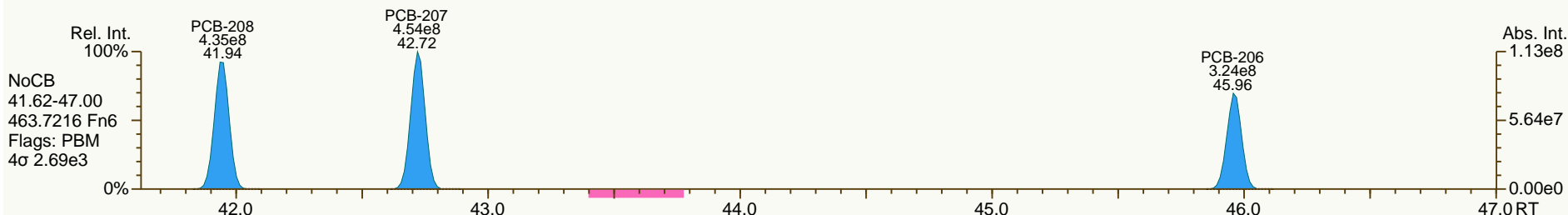
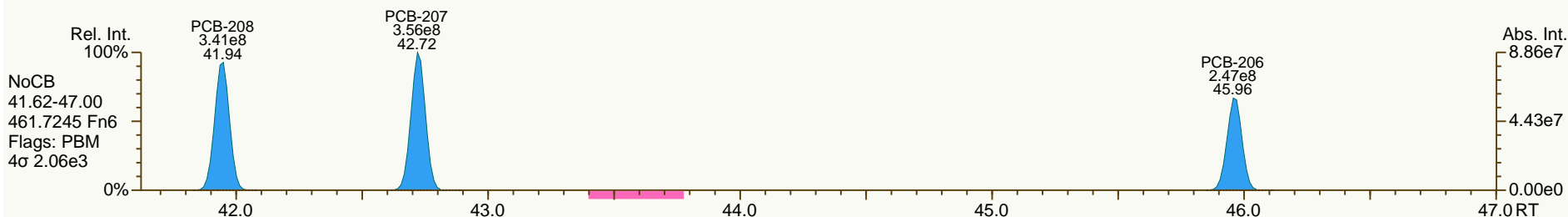
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SGS-AP ID: CS5_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 55

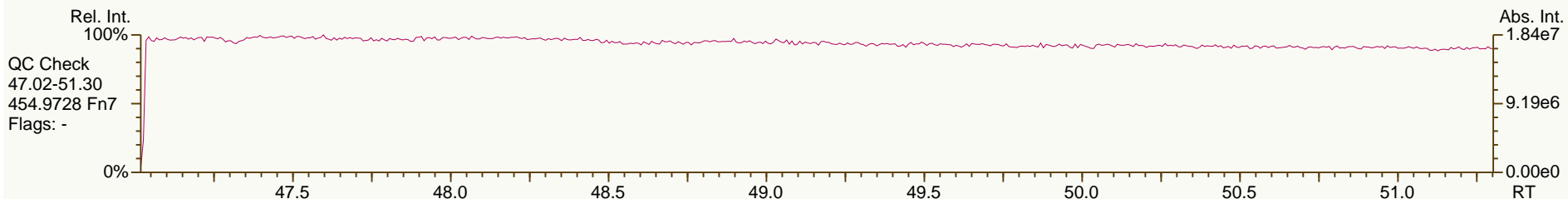
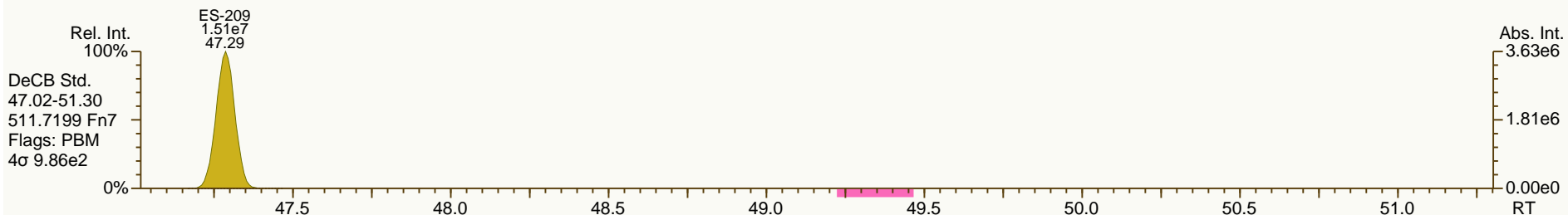
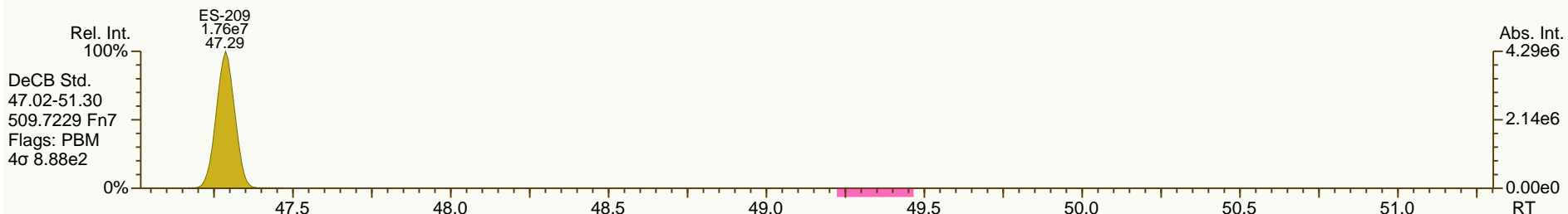
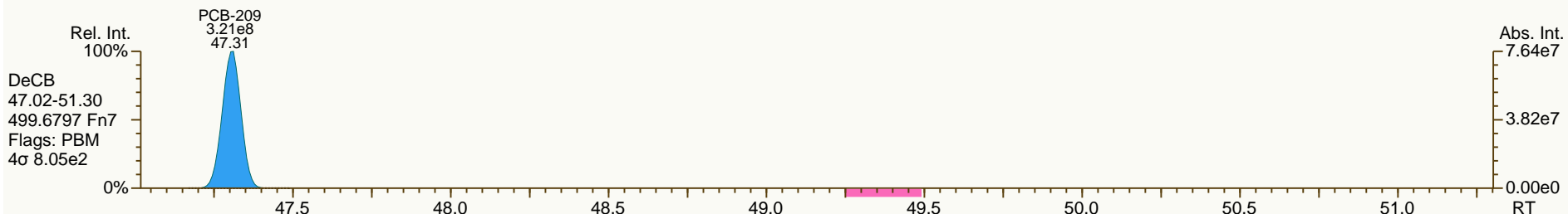
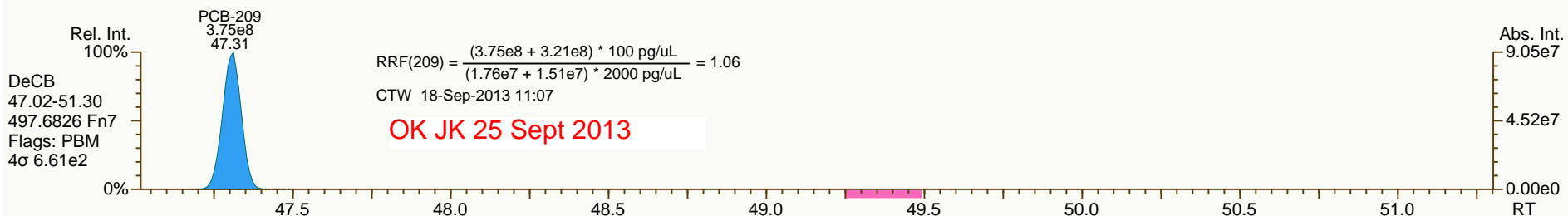
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SGS-AP ID: CS5_130911_PCB_SB
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL 13-40-1
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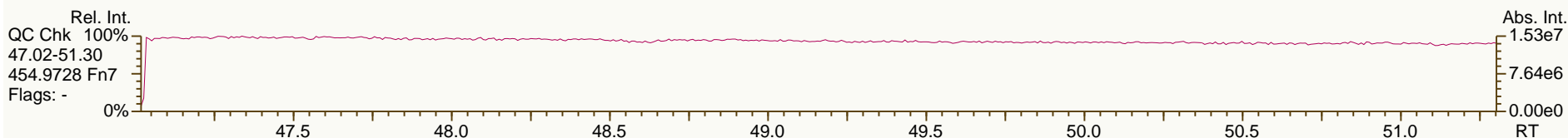
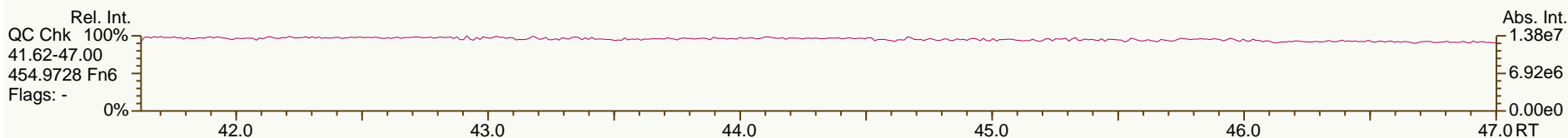
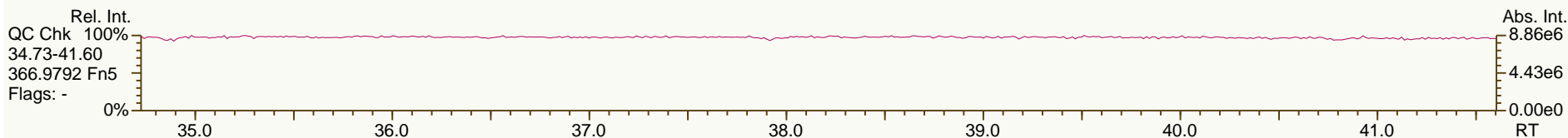
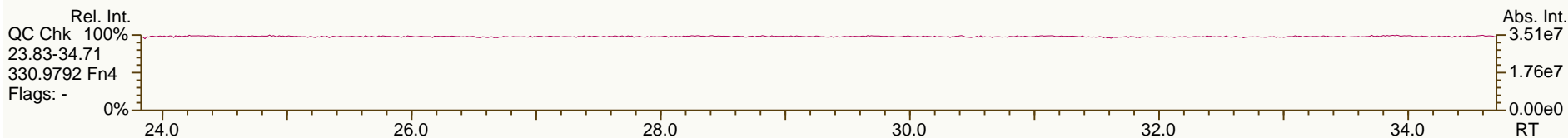
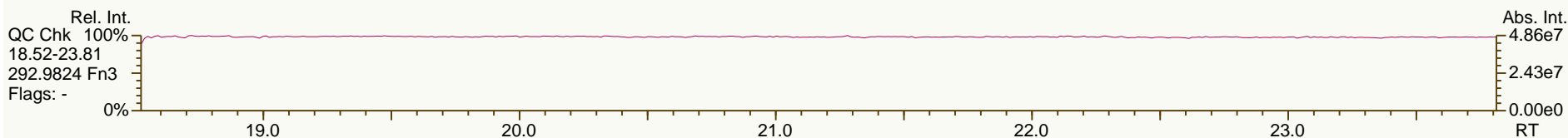
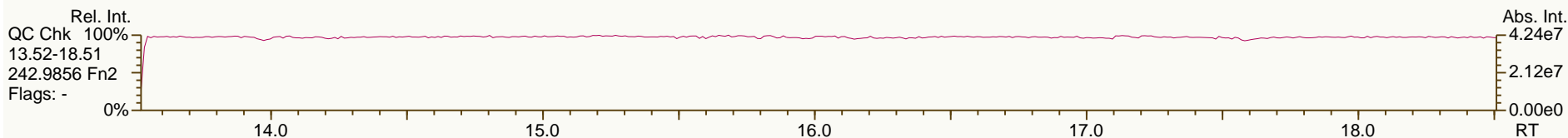
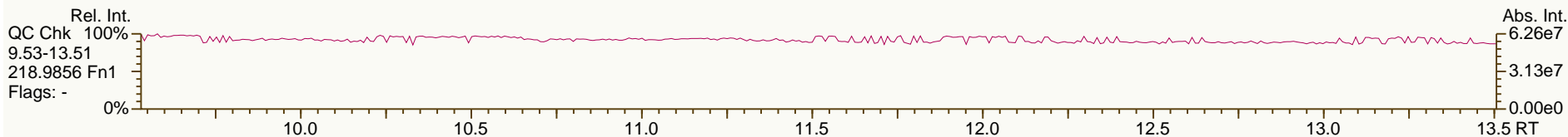
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SGS-AP ID: SBS_130911_PCB_SA
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

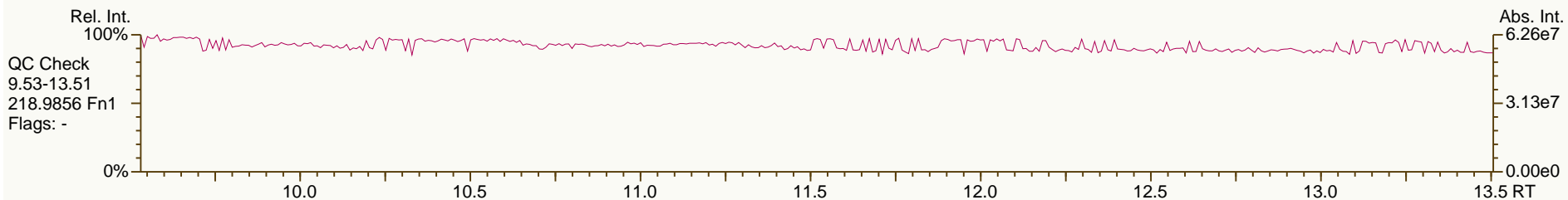
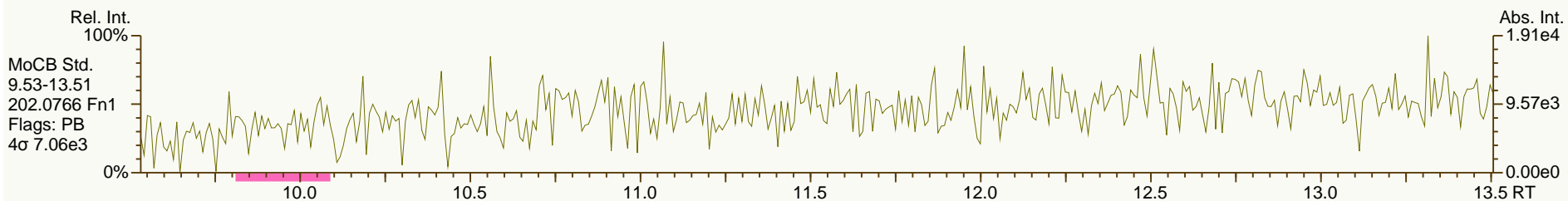
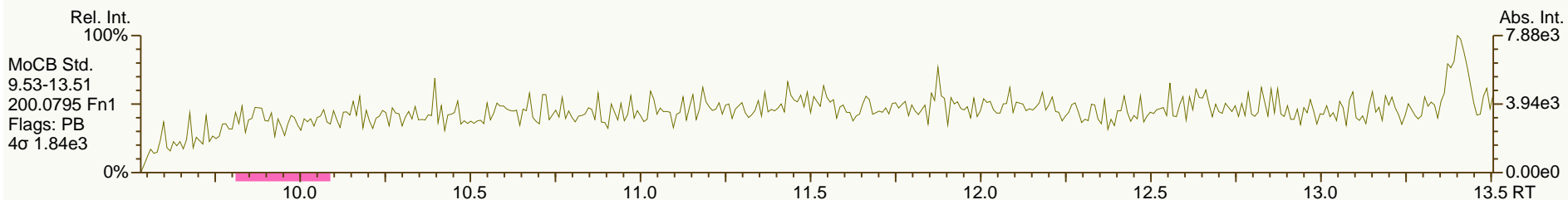
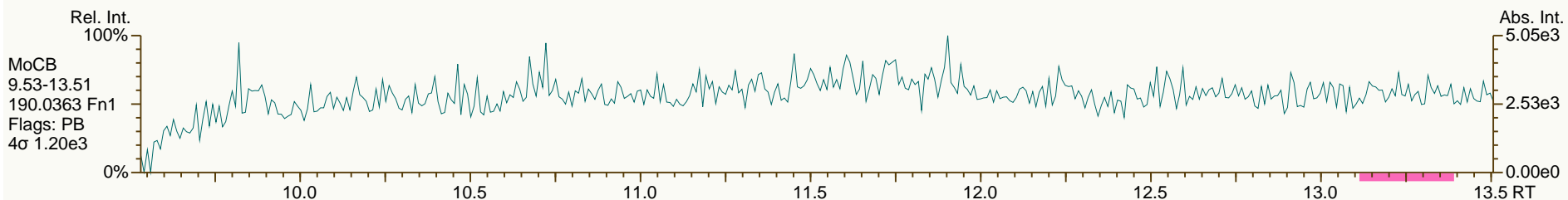
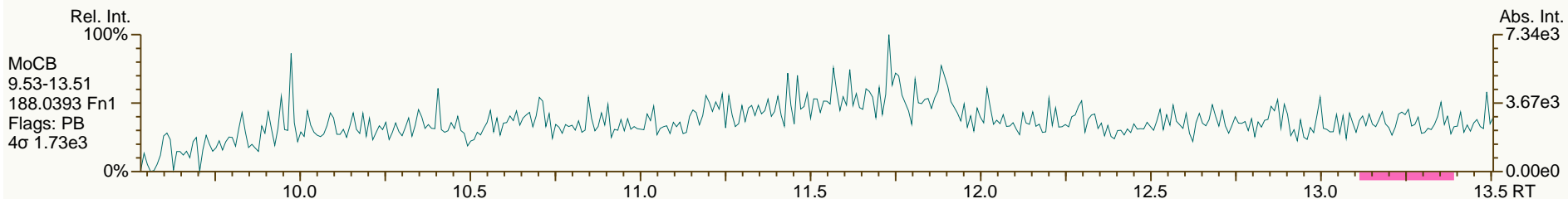
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SGS-AP ID: SBS_130911_PCB_SA
 Instr: AutoSpec-Ultima MM4

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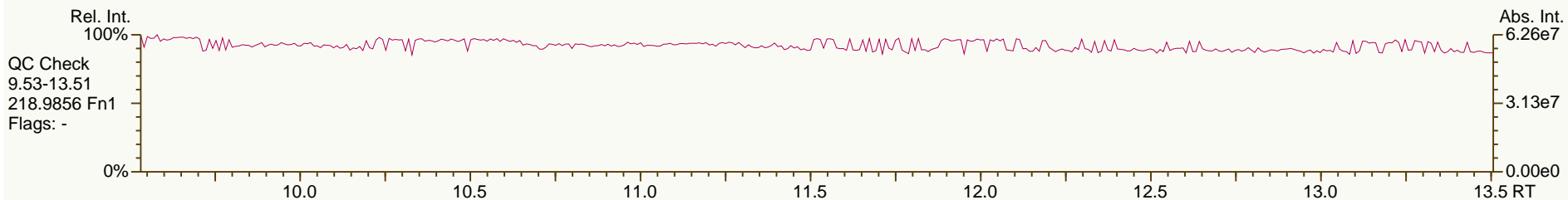
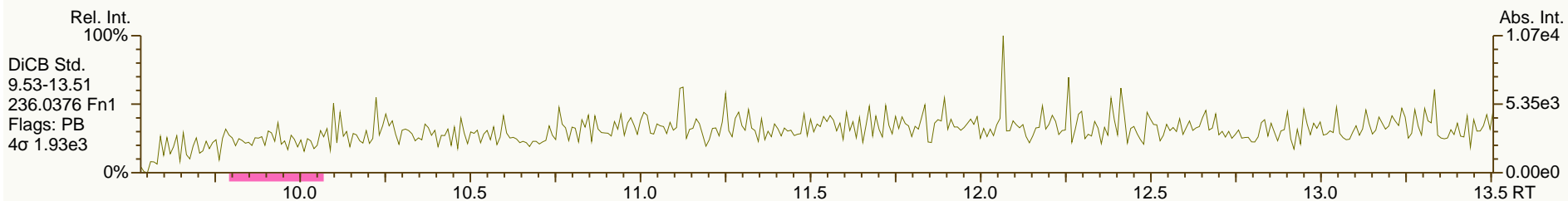
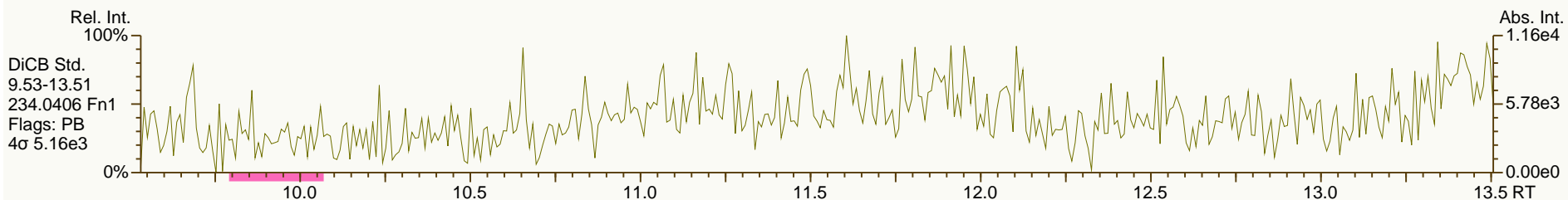
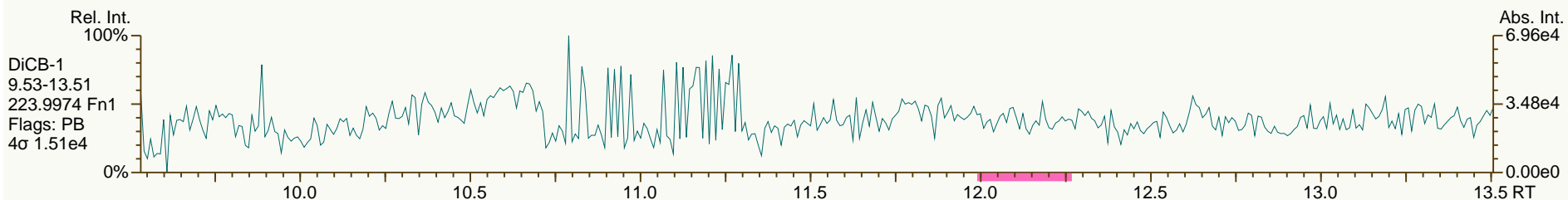
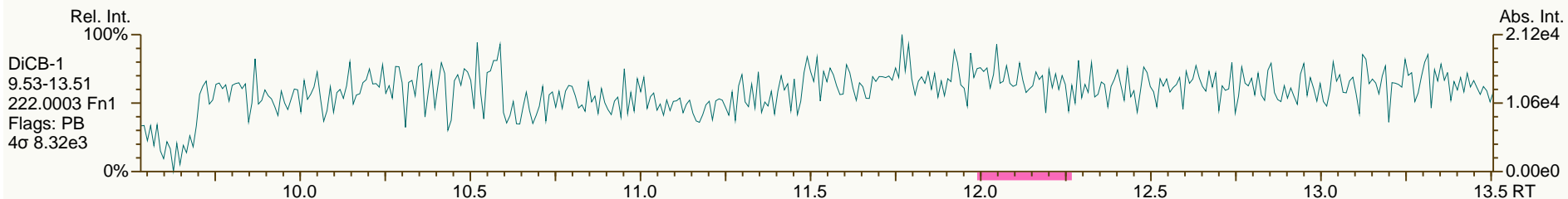
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SGS-AP ID: SBS_130911_PCB_SA
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

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SGS-AP ID: SBS_130911_PCB_SA
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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SGS-AP ID: SBS_130911_PCB_SA
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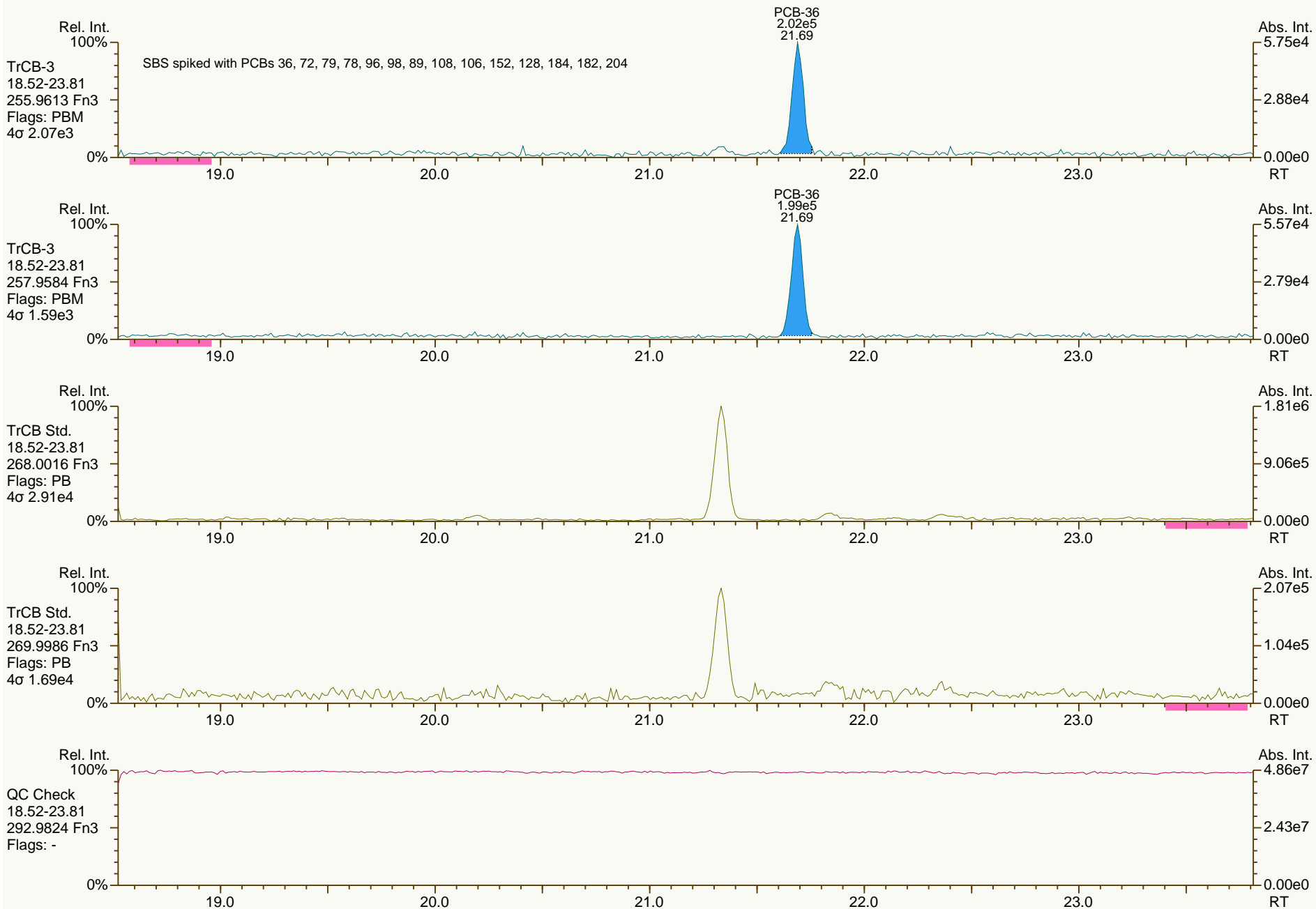
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SGS-AP ID: SBS_130911_PCB_SA
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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SGS-AP ID: SBS_130911_PCB_SA
 Instr: AutoSpec-Ultima MM4

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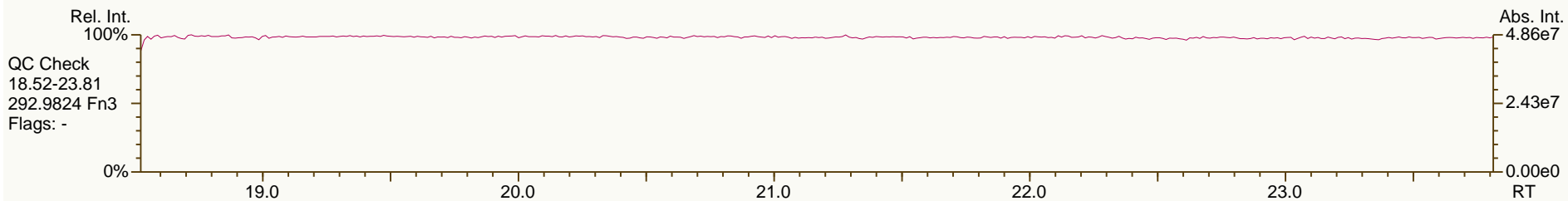
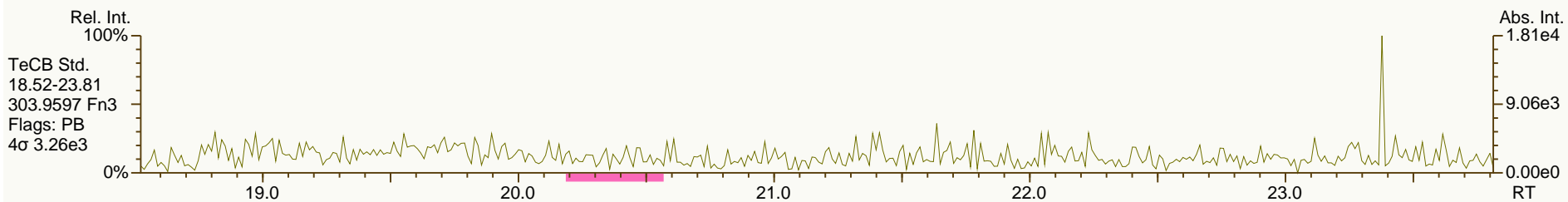
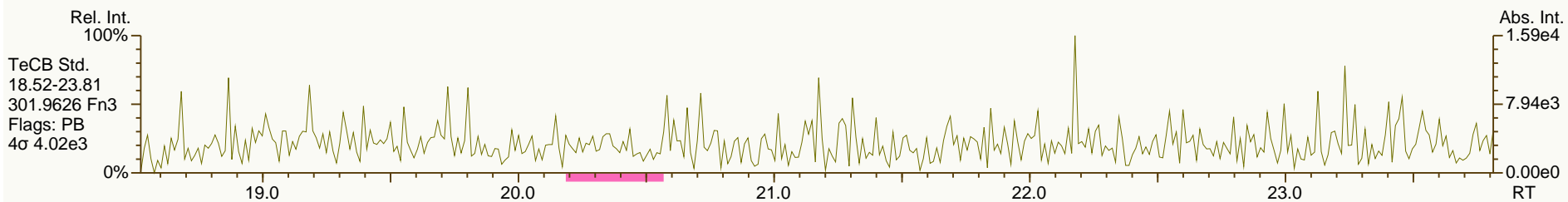
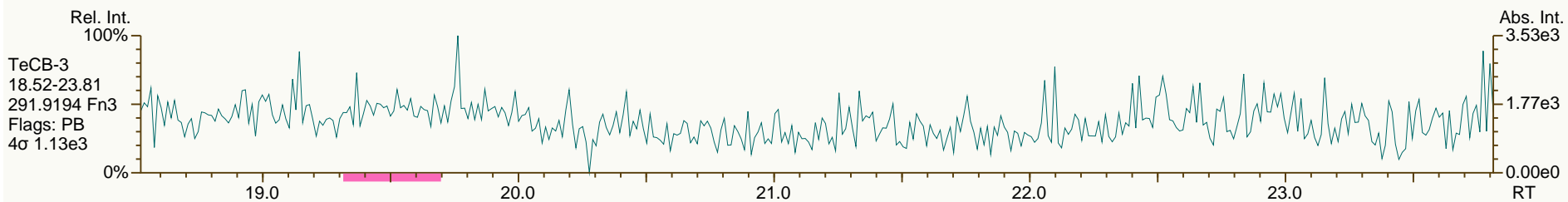
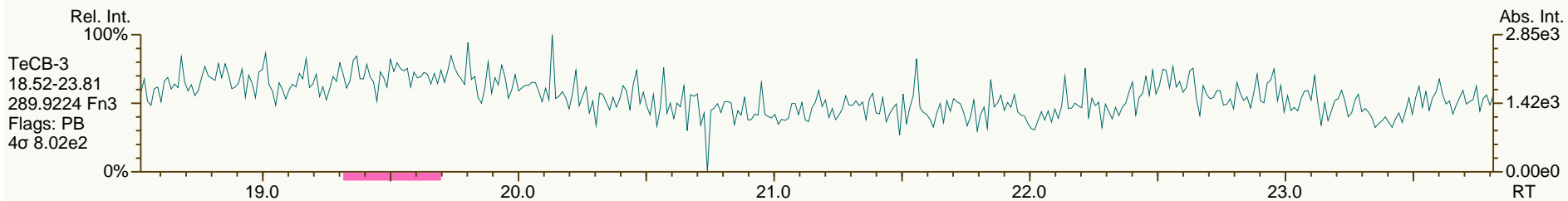
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SGS-AP ID: SBS_130911_PCB_SA
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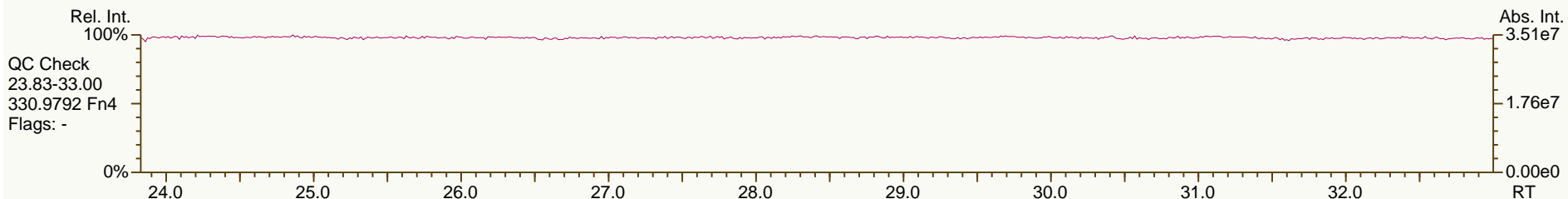
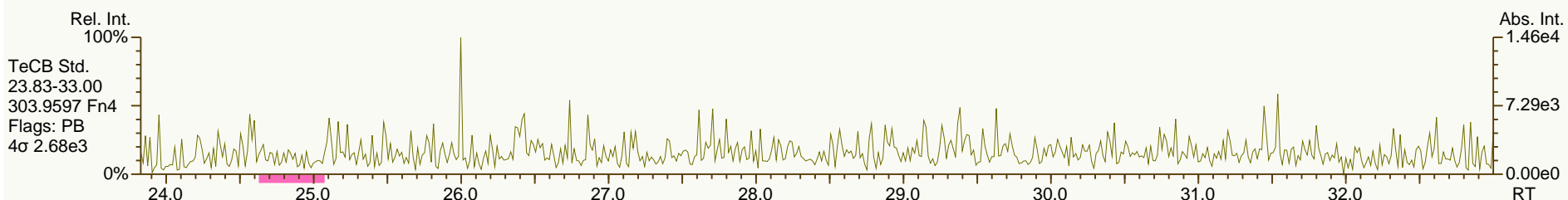
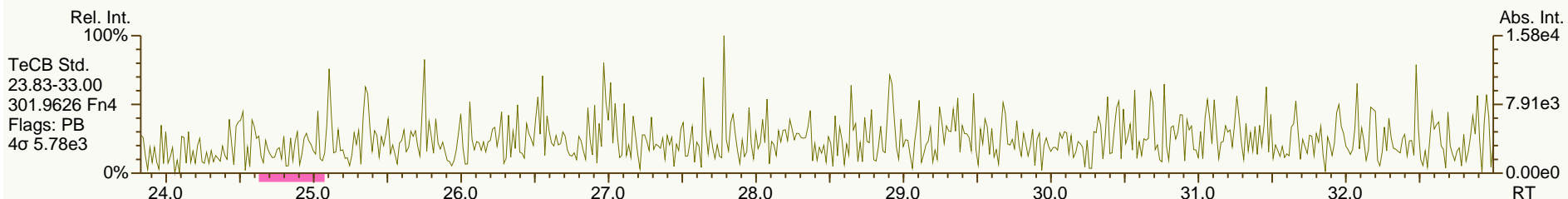
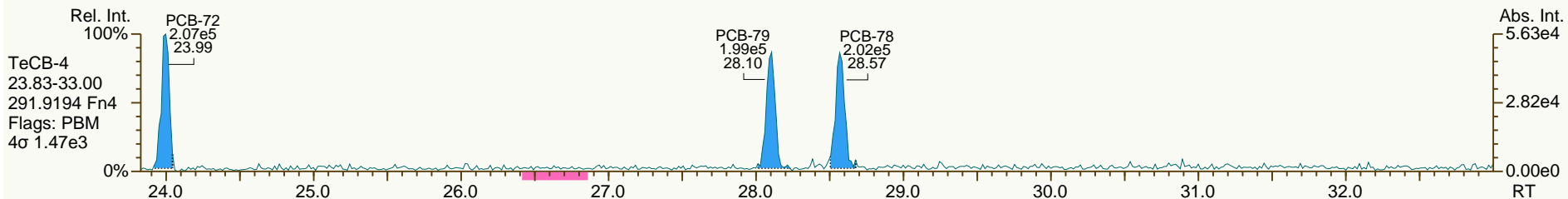
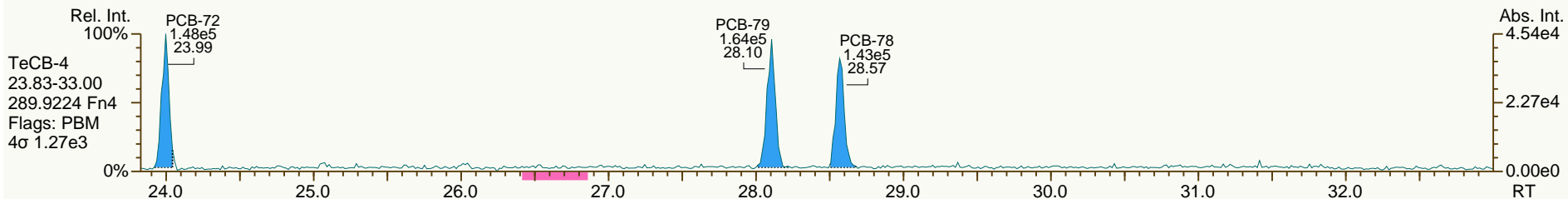
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SGS-AP ID: SBS_130911_PCB_SA
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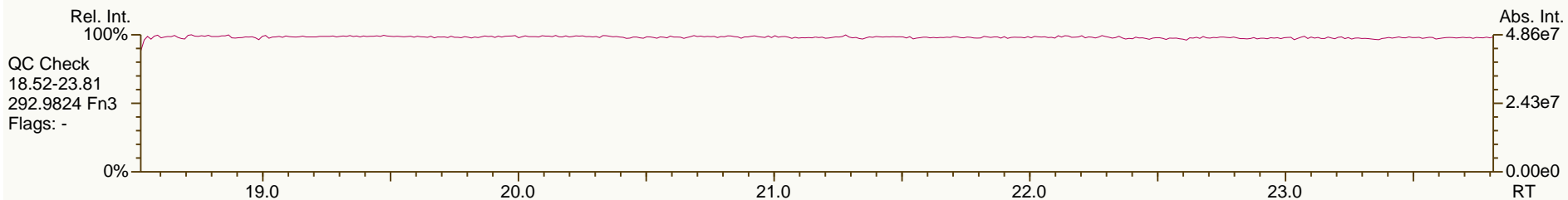
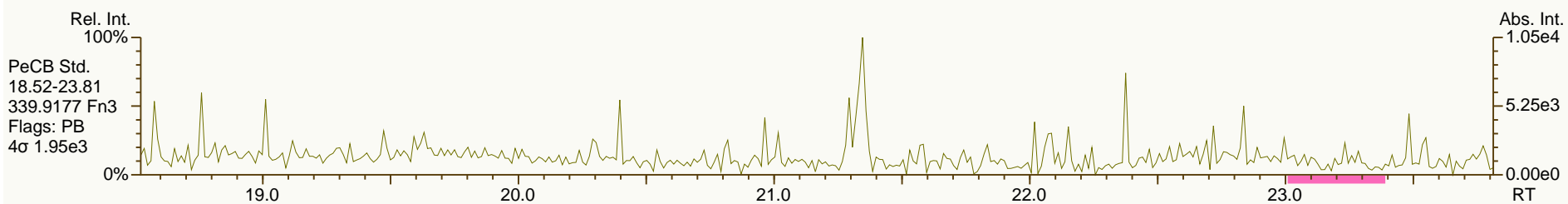
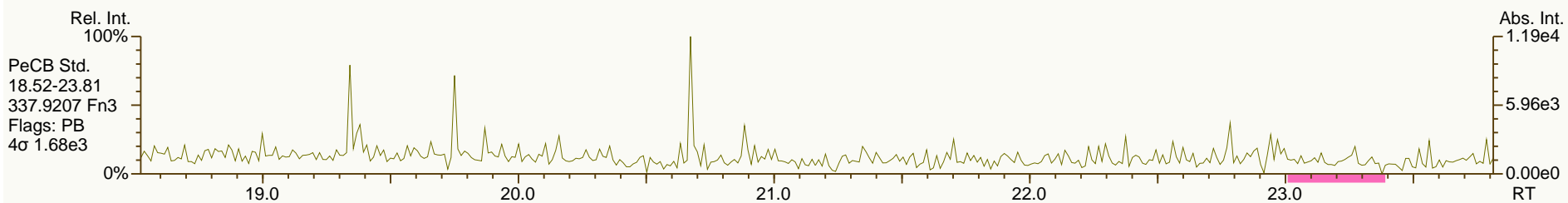
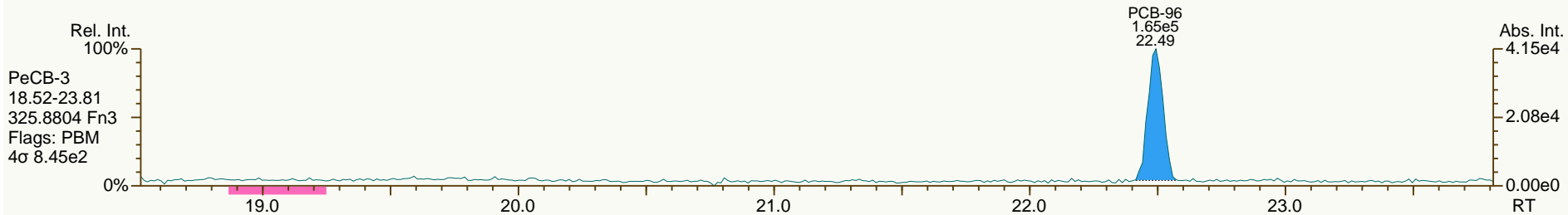
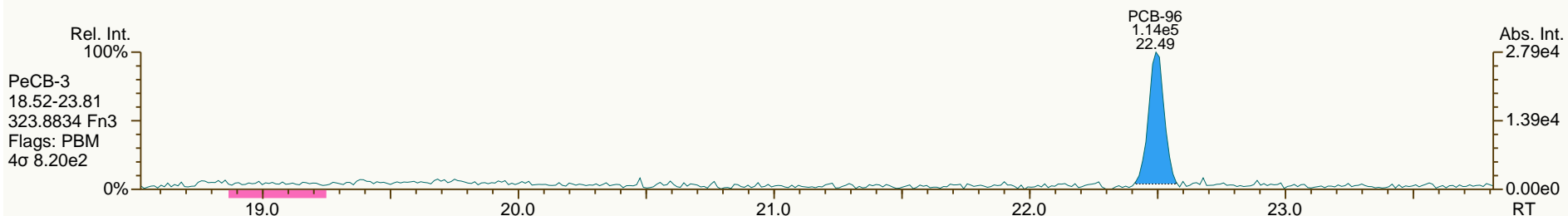
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SGS-AP ID: SBS_130911_PCB_SA
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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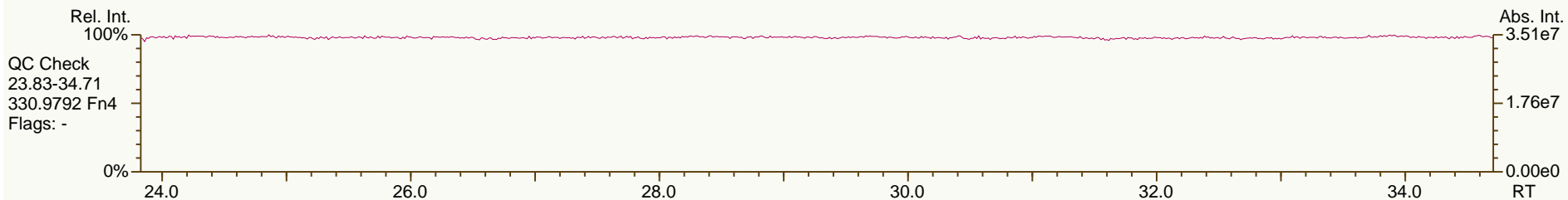
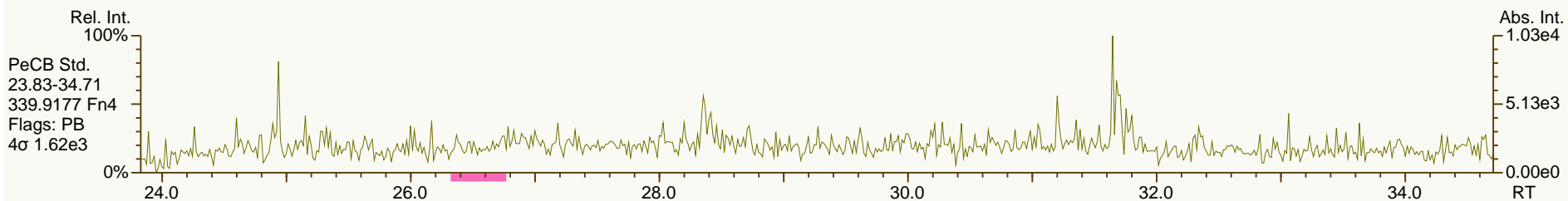
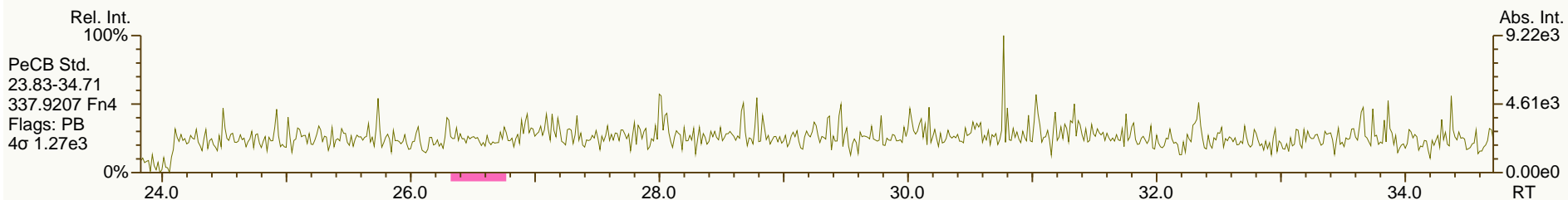
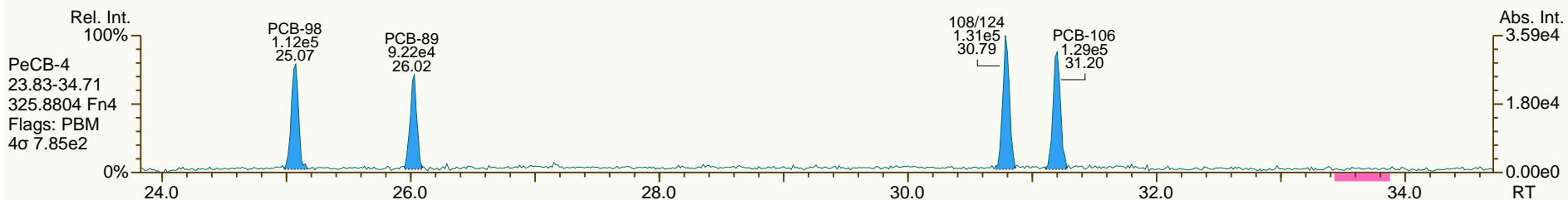
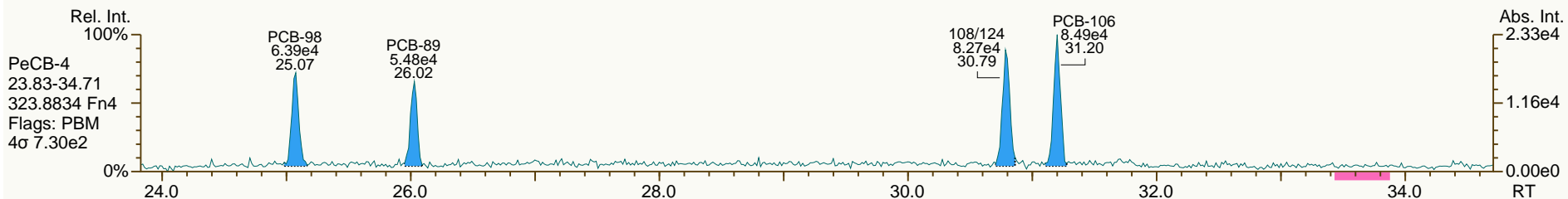
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SGS-AP ID: SBS_130911_PCB_SA
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Sample ID: SIL9-41-1
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SGS-AP ID: SBS_130911_PCB_SA
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
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SGS-AP ID: SBS_130911_PCB_SA
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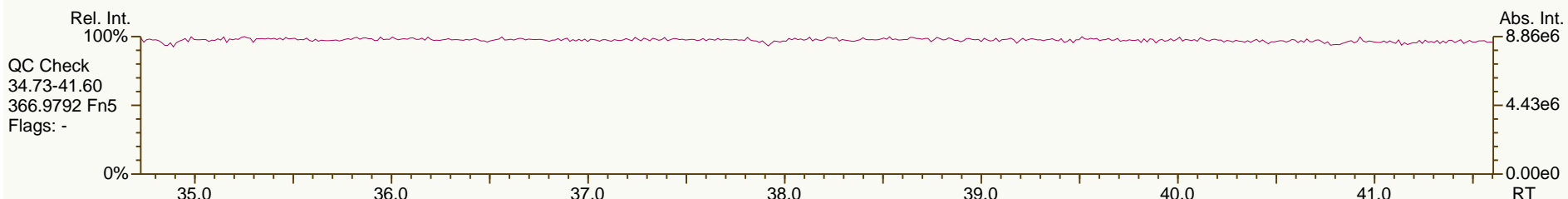
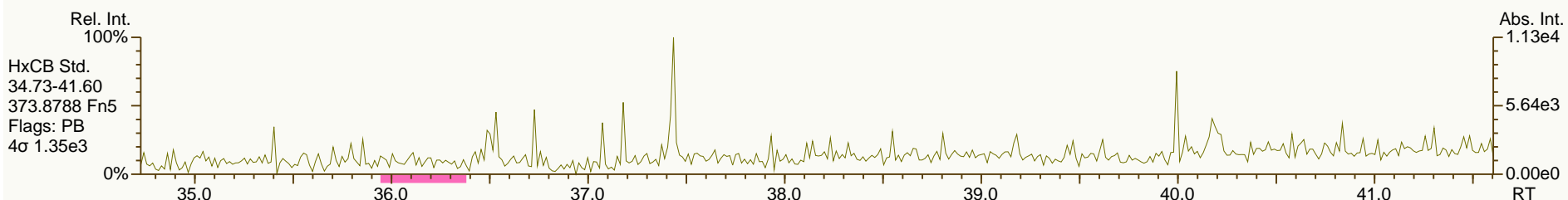
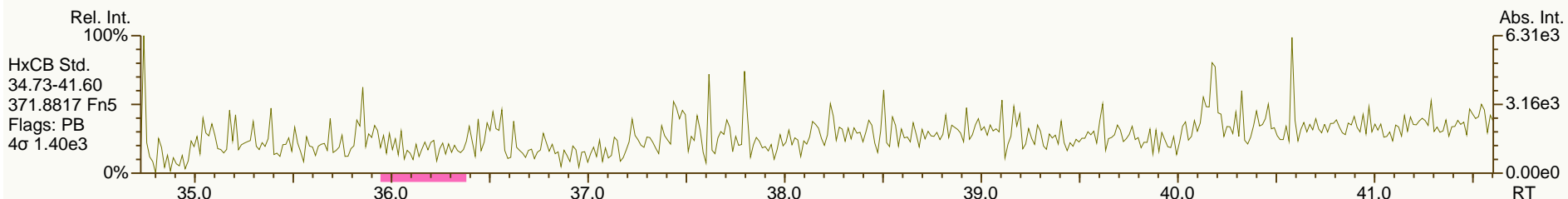
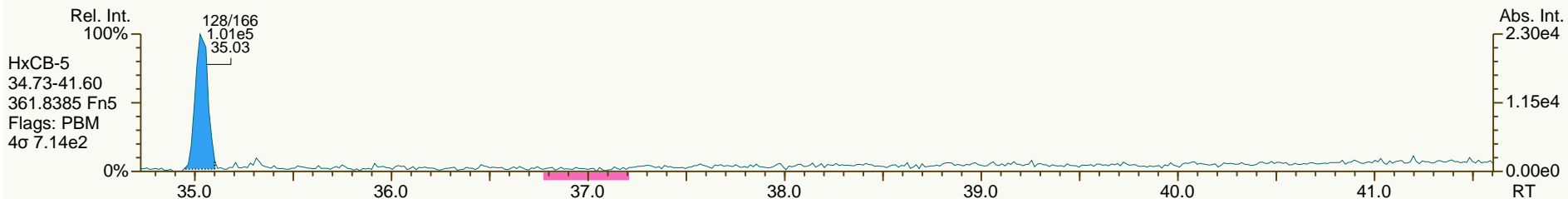
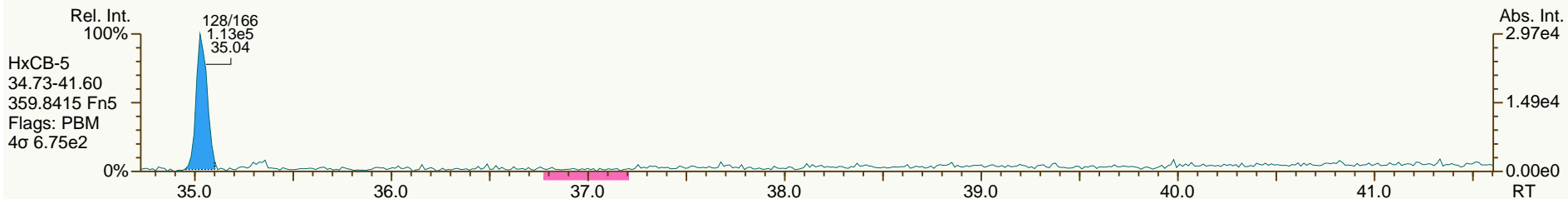
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SGS-AP ID: SBS_130911_PCB_SA
 Instr: AutoSpec-Ultima MM4

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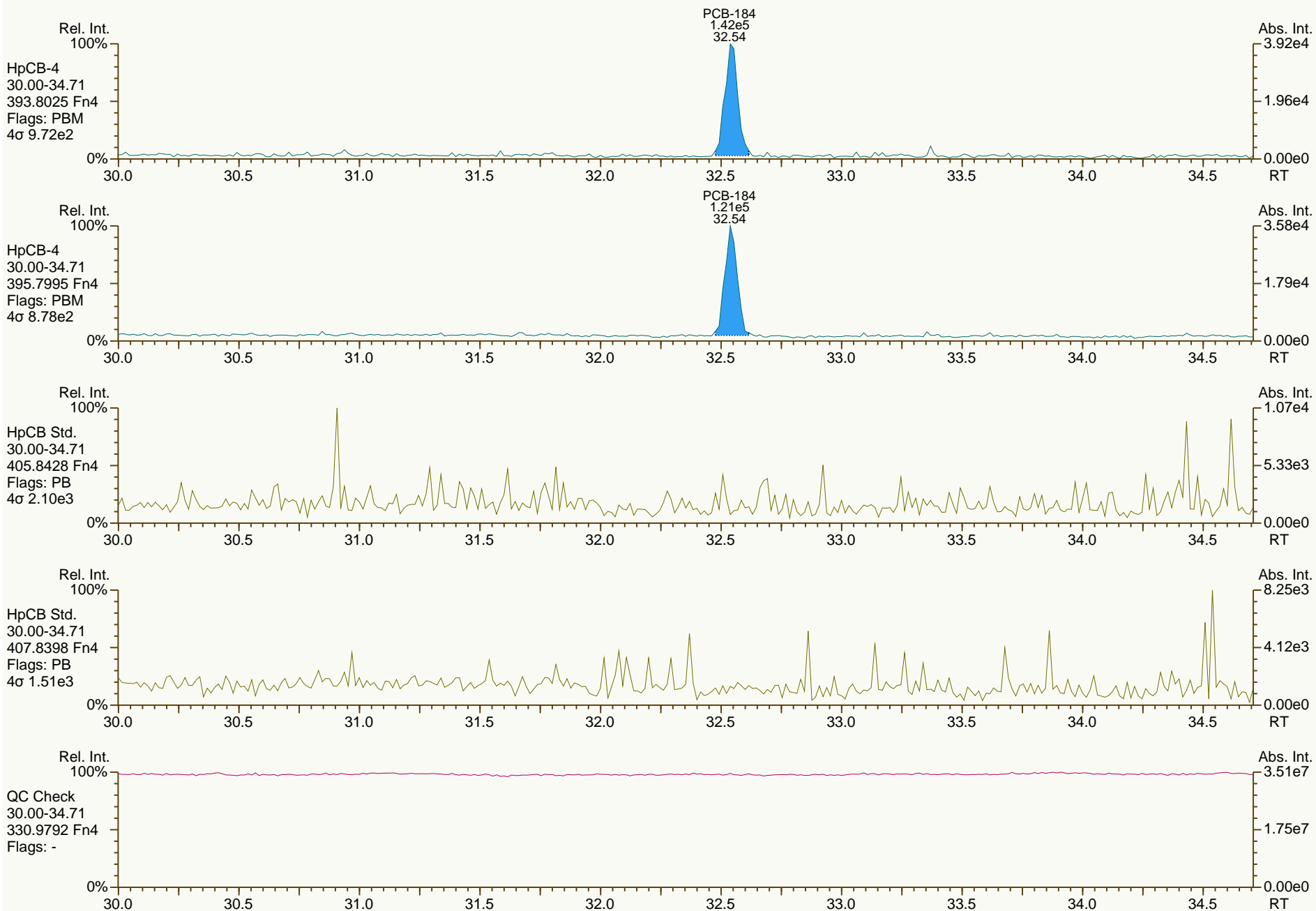
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SGS-AP ID: SBS_130911_PCB_SA
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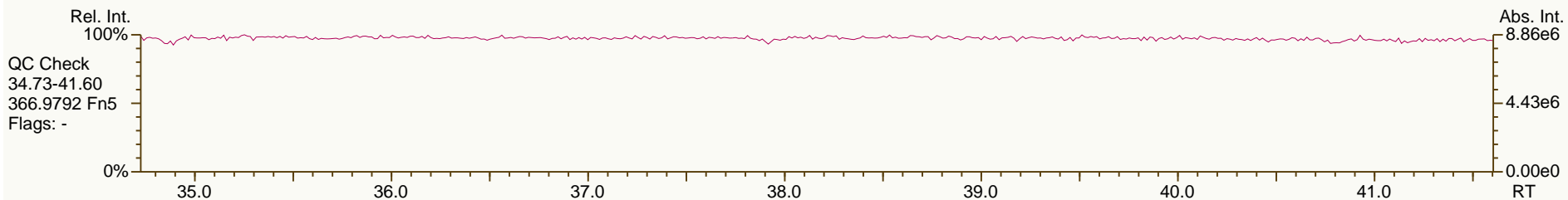
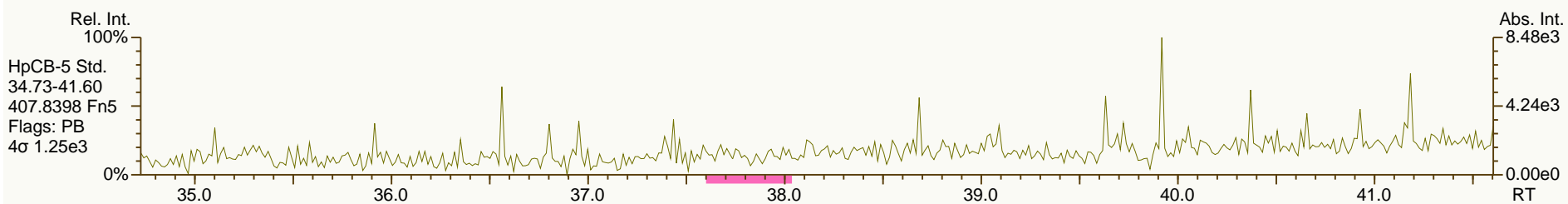
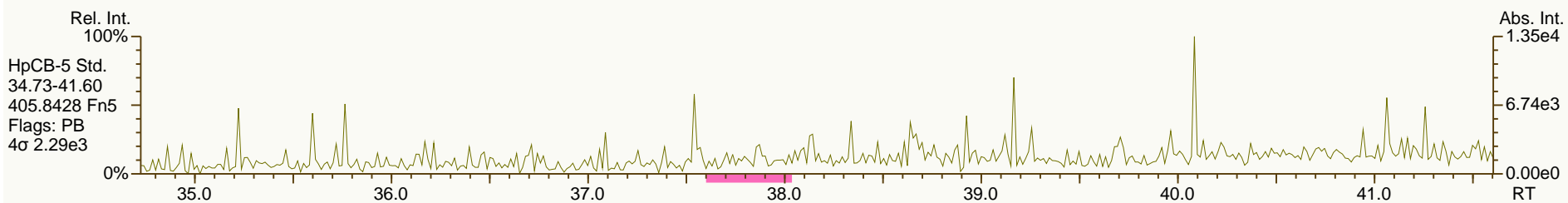
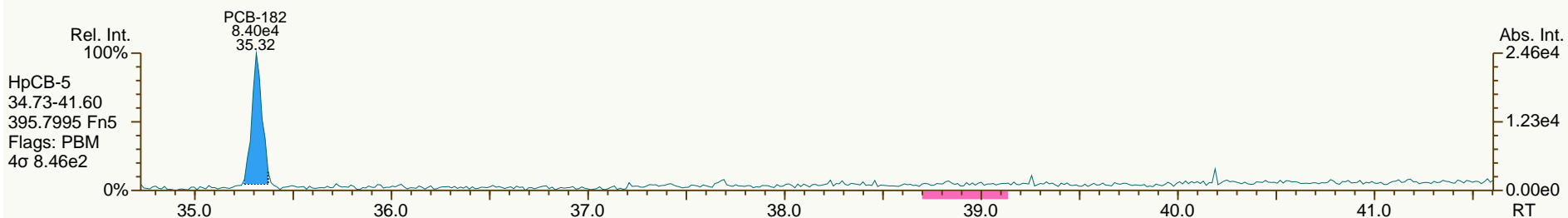
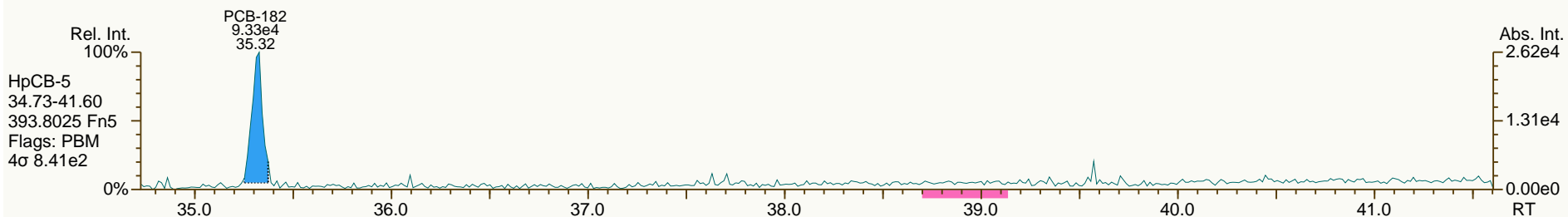
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SGS-AP ID: SBS_130911_PCB_SA
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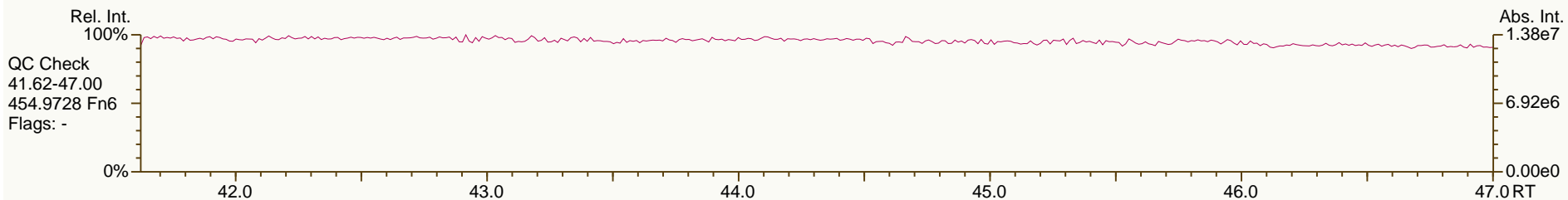
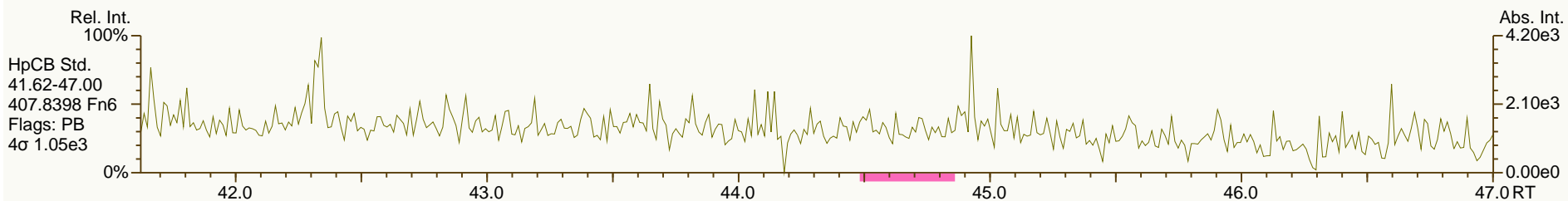
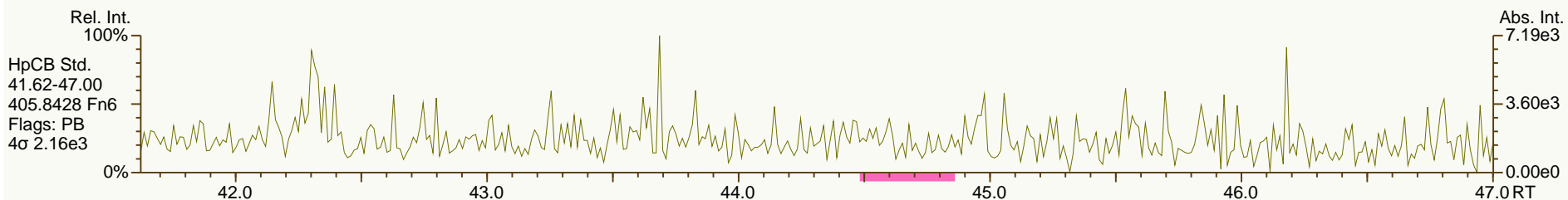
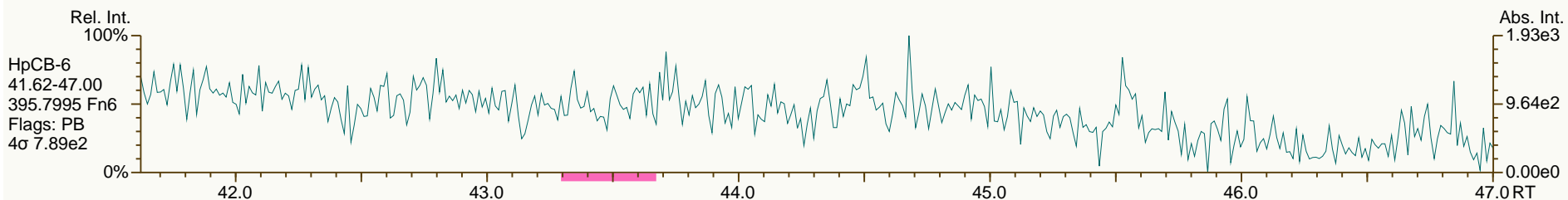
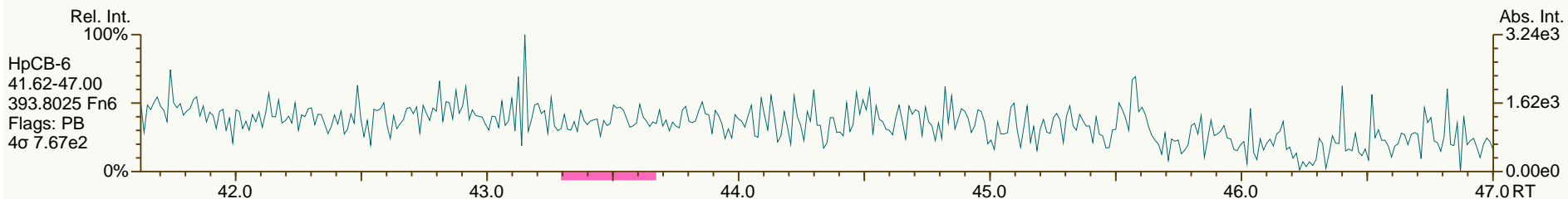
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SGS-AP ID: SBS_130911_PCB_SA
 Instr: AutoSpec-Ultima MM4

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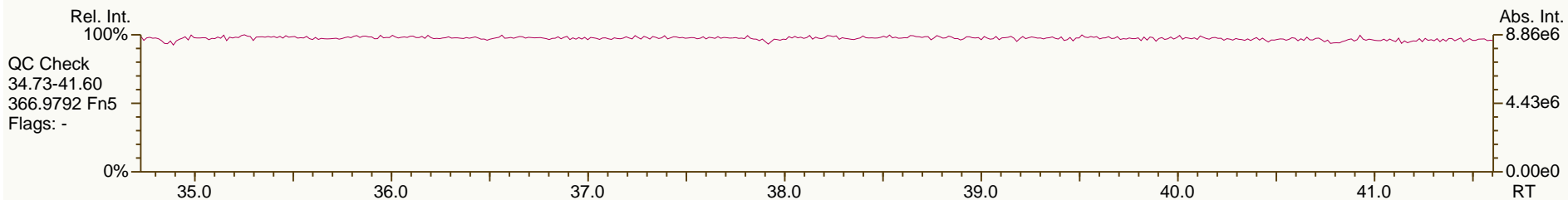
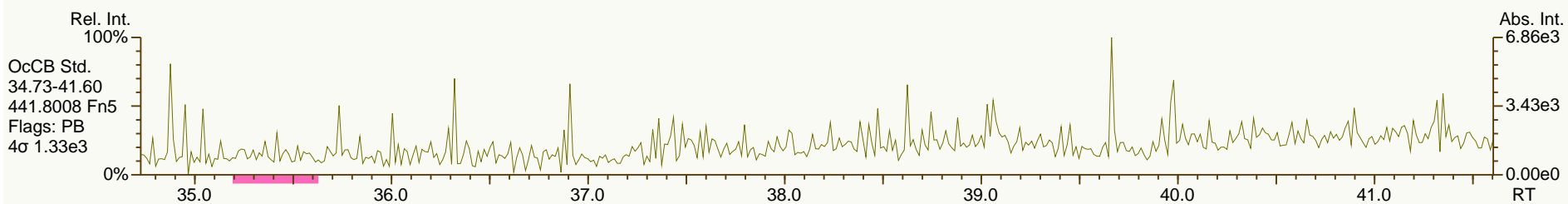
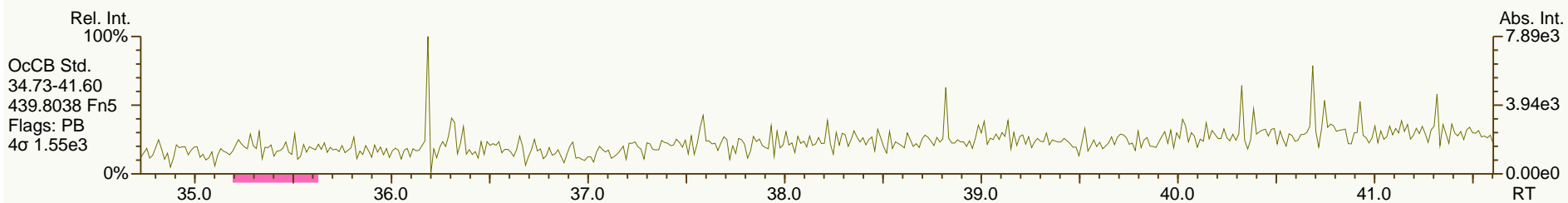
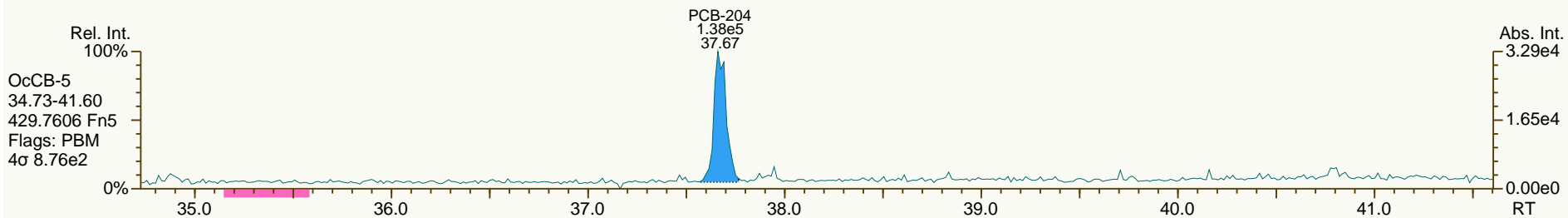
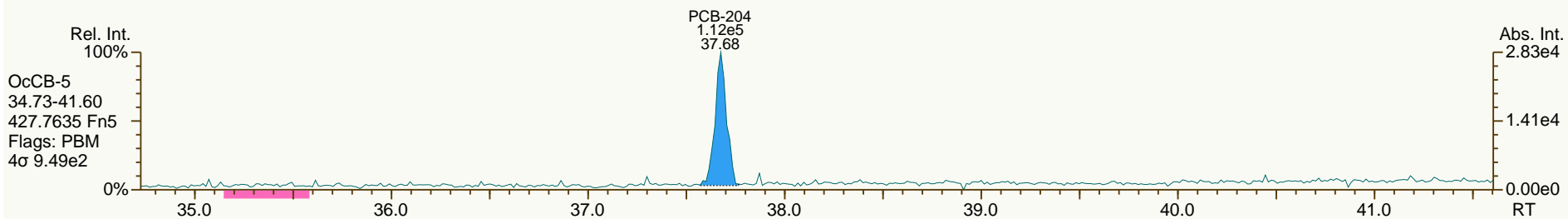
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SGS-AP ID: SBS_130911_PCB_SA
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Sample ID: SIL9-41-1
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SGS-AP ID: SBS_130911_PCB_SA
 Instr: AutoSpec-Ultima MM4

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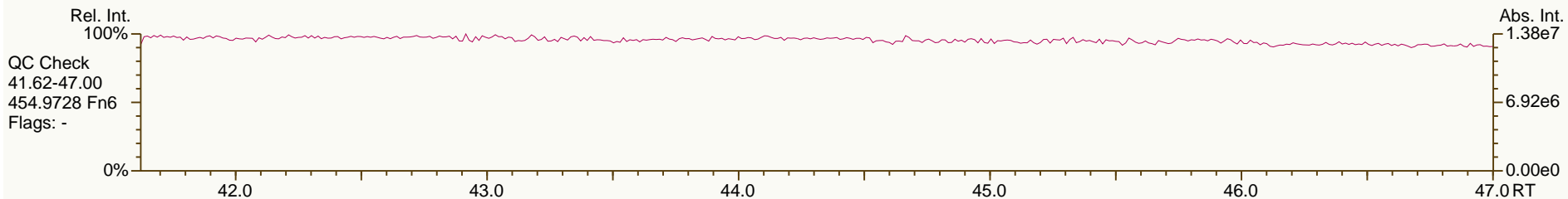
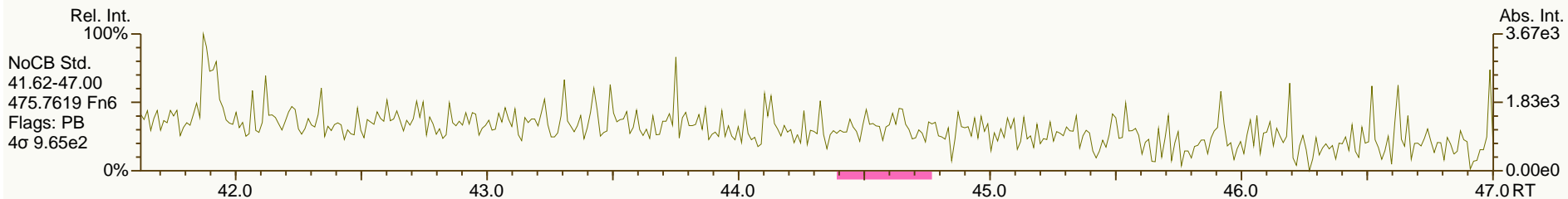
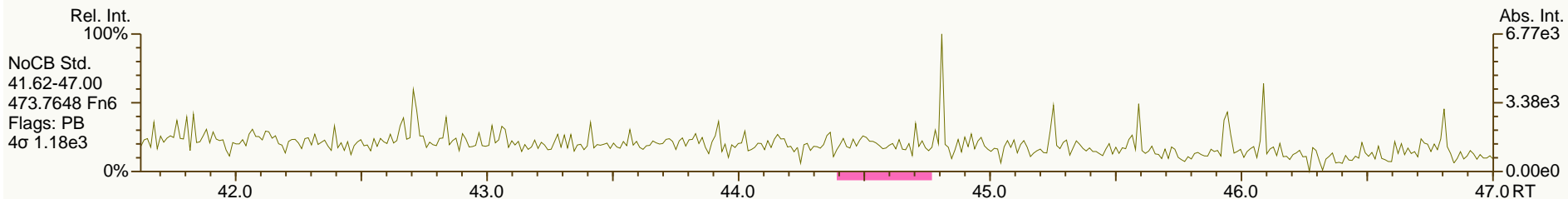
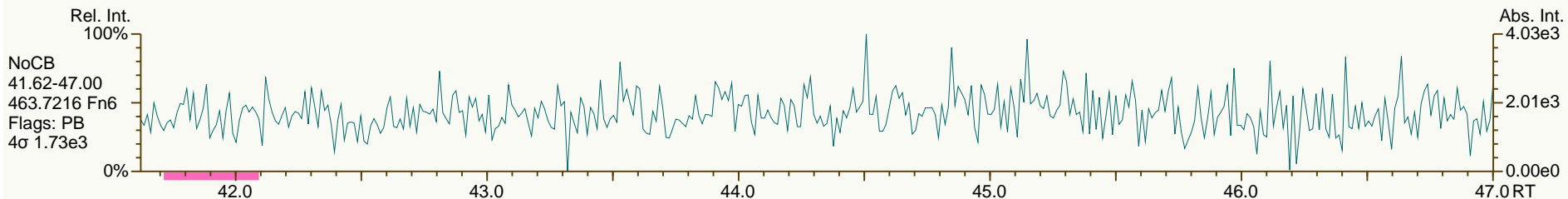
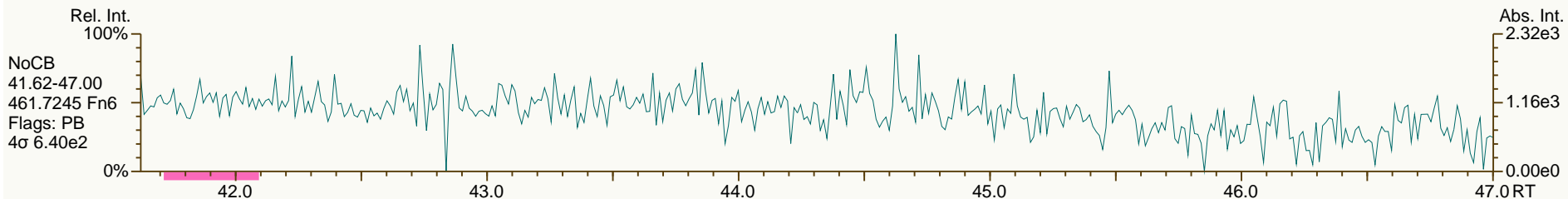
Acq: 11-Sep-2013 12:36:54
 User: CTW Datafile: 130911S02



SGS-AP ID: SBS_130911_PCB_SA
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

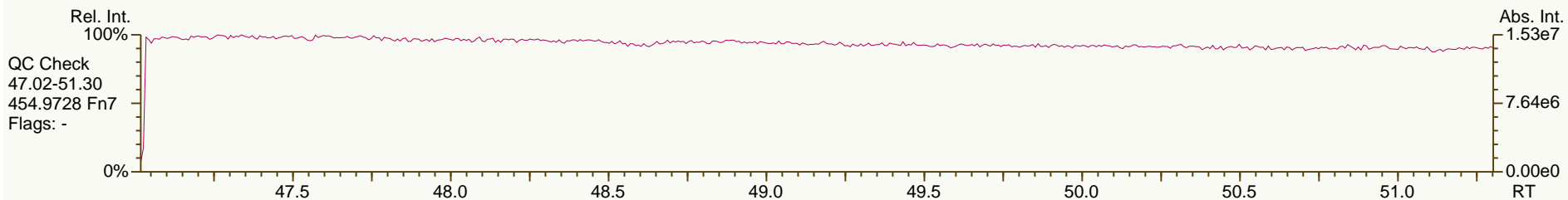
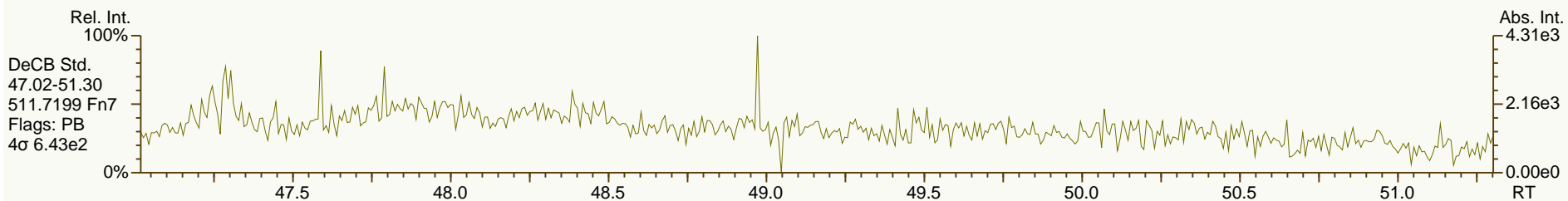
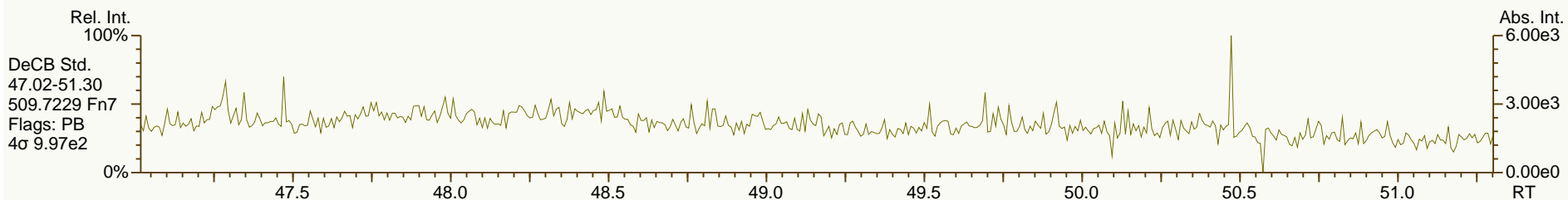
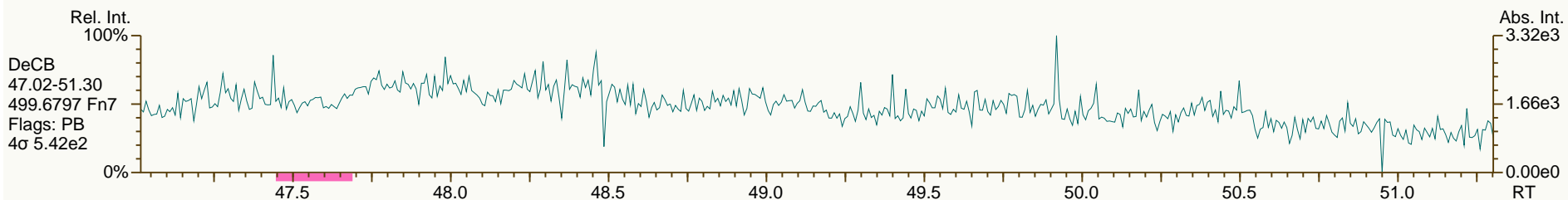
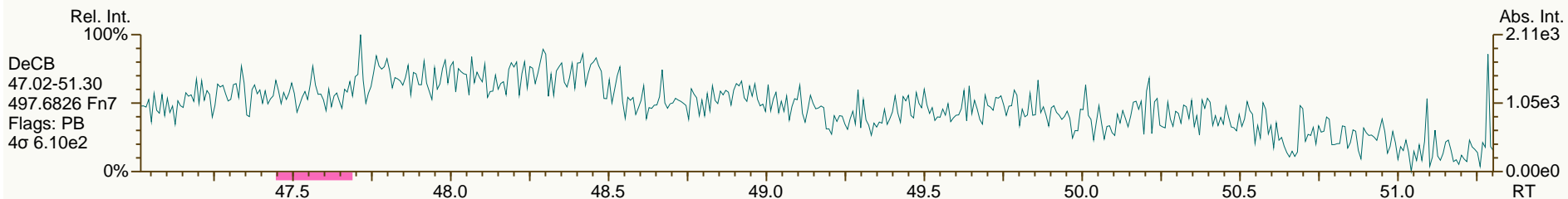
Acq: 11-Sep-2013 12:36:54
 User: CTW Datafile: 130911S02



SGS-AP ID: SBS_130911_PCB_SA
 Instr: AutoSpec-Ultima MM4

Sample ID: SIL9-41-1
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 12

Acq: 11-Sep-2013 12:36:54
 User: CTW Datafile: 130911S02



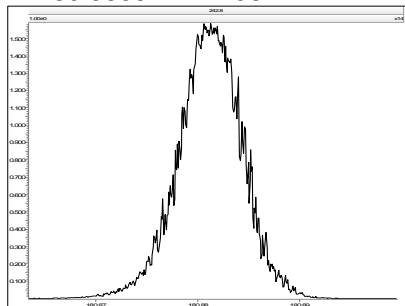
Experiment Calibration Report

MassLynx 4.1

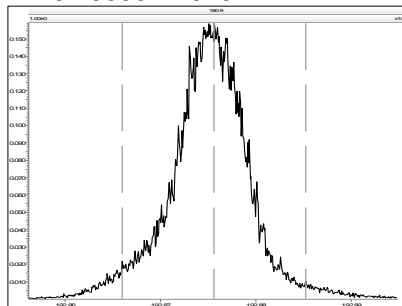
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, September 11, 2013 12:31:07 Eastern Daylight Time

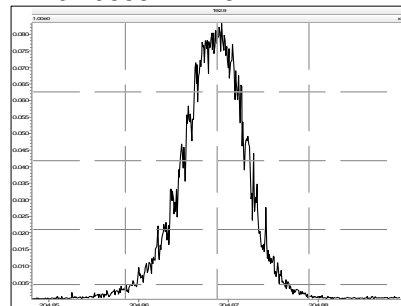
M 180.9888 R 12436



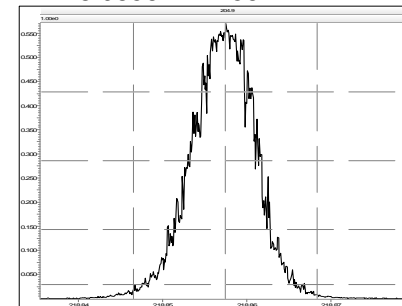
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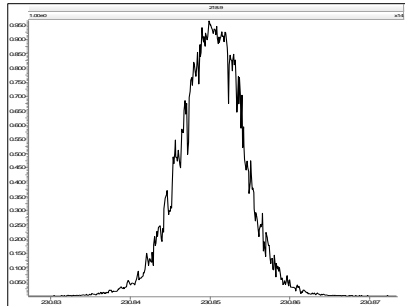
M 204.9888 R 11844



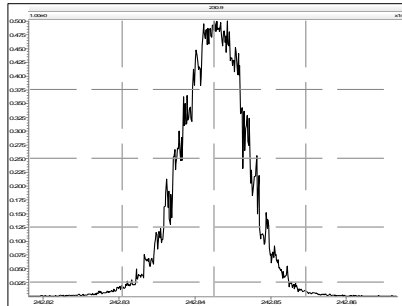
M 218.9856 R 12561



M 230.9856 R 12436



M 242.9856 R 12019



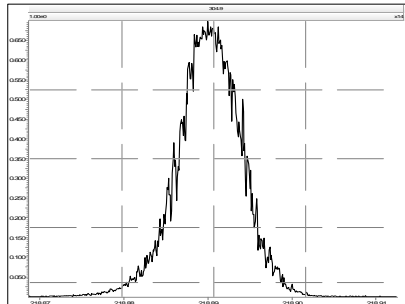
Experiment Calibration Report

MassLynx 4.1

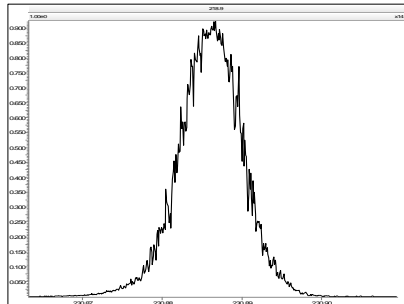
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, September 11, 2013 12:31:27 Eastern Daylight Time

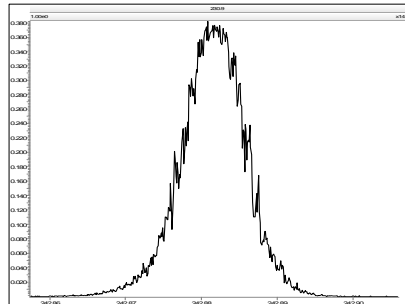
M 218.9856 R 11904



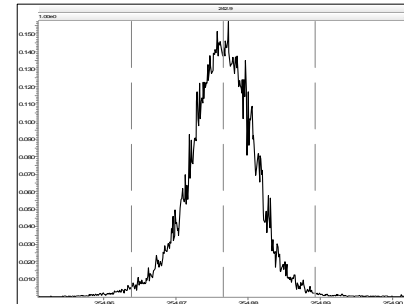
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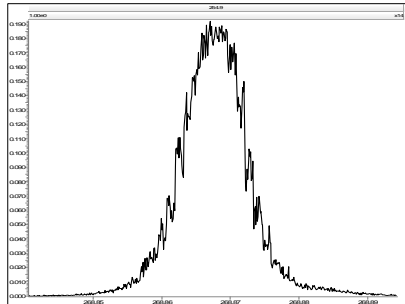
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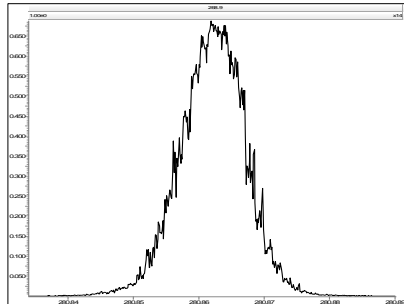
M 254.9856 R 11736



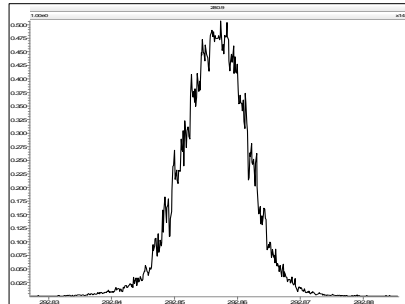
M 268.9824 R 11261



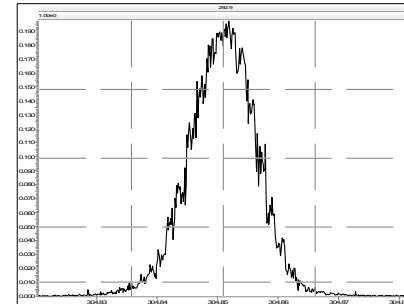
M 280.9824 R 12023



M 292.9824 R 11787



M 304.9824 R 11573



Experiment Calibration Report

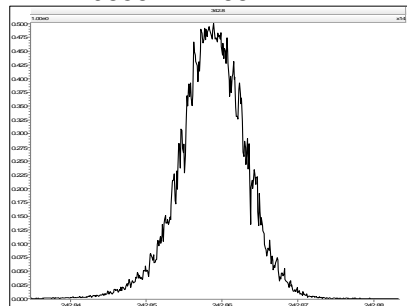
MassLynx 4.1

Page 1 of 1

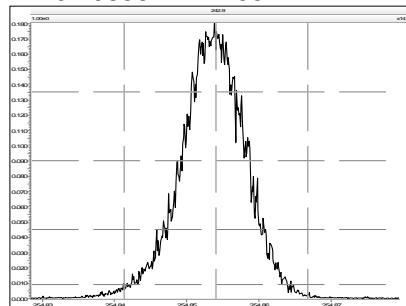
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, September 11, 2013 12:31:50 Eastern Daylight Time

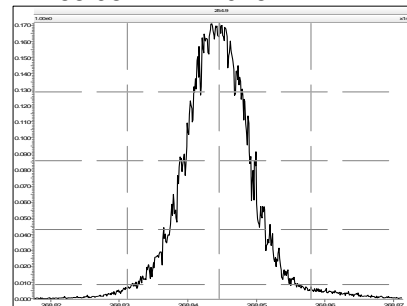
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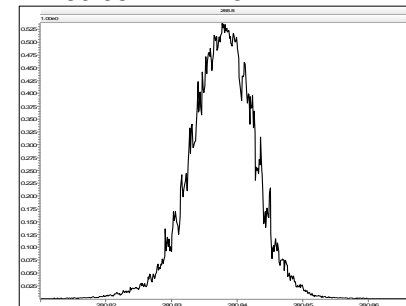
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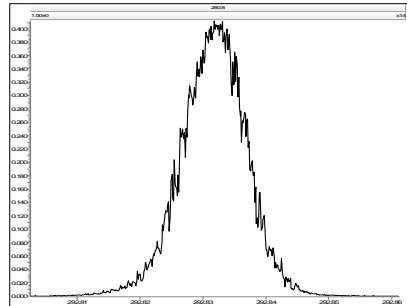
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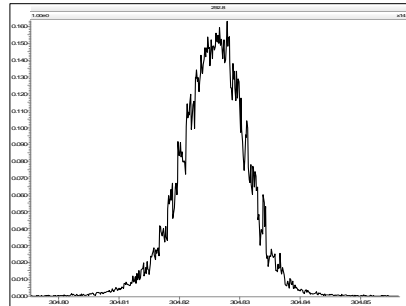
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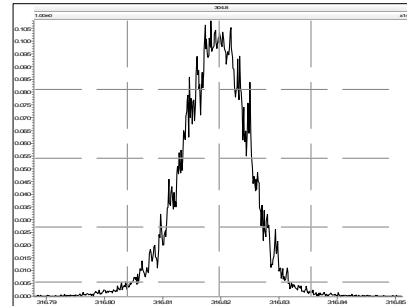
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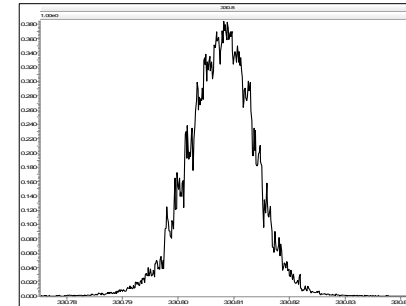
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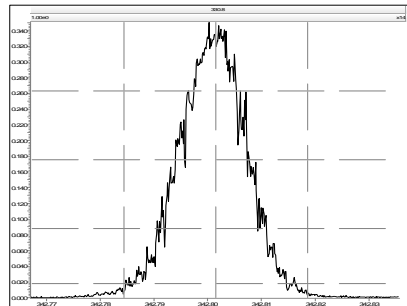
M 316.9824 R 12079



M 330.9792 R 11627



M 342.9792 R 11959



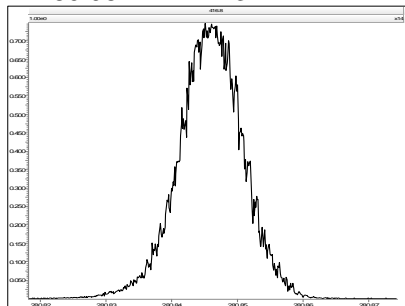
Experiment Calibration Report

MassLynx 4.1

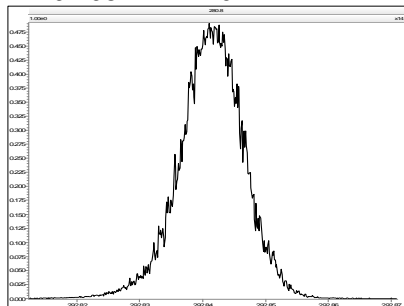
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, September 11, 2013 12:32:20 Eastern Daylight Time

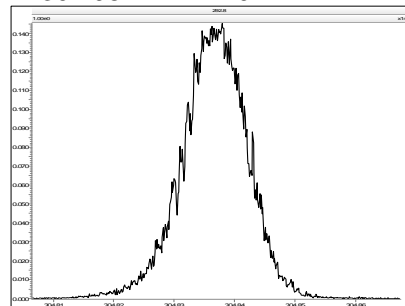
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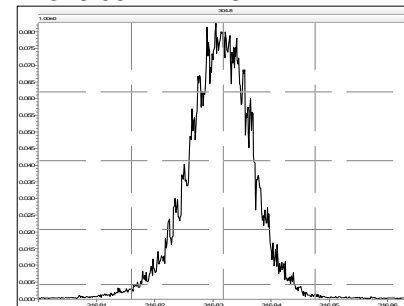
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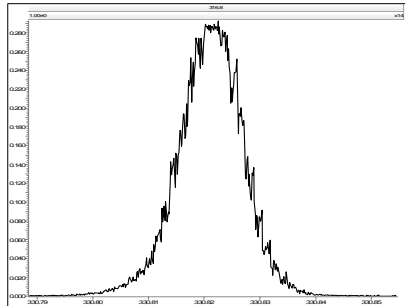
M 304.9824 R 11791



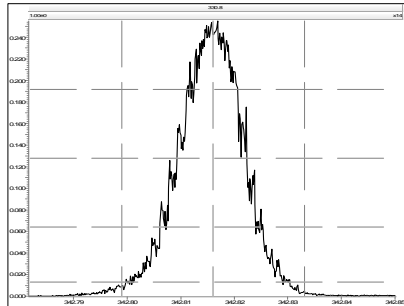
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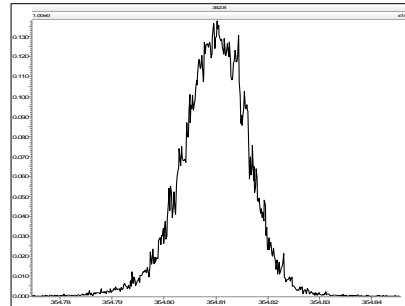
M 330.9792 R 12077



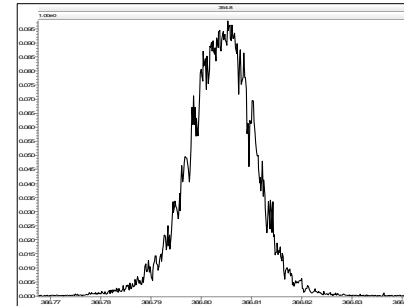
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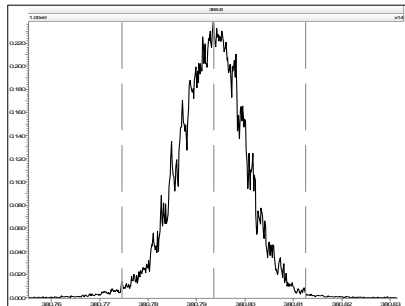
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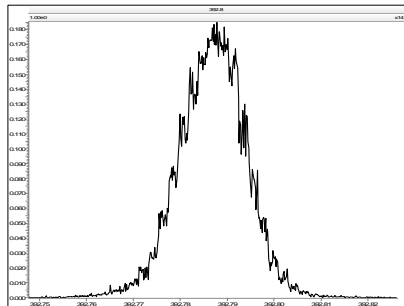
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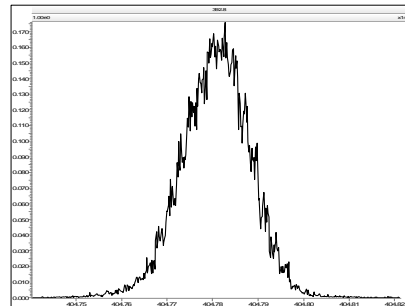
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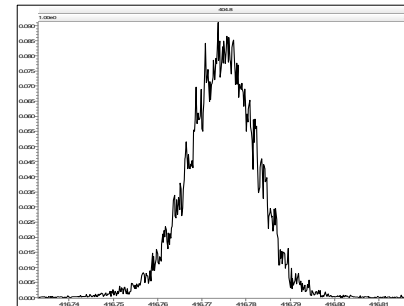
M 392.9760 R 12316



M 404.9760 R 11685



M 416.9760 R 12137



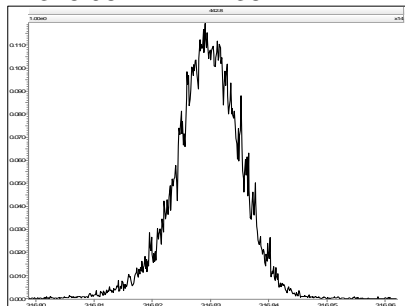
Experiment Calibration Report

MassLynx 4.1

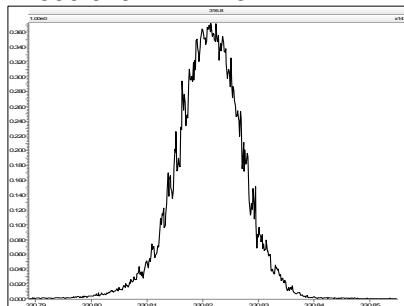
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, September 11, 2013 12:32:50 Eastern Daylight Time

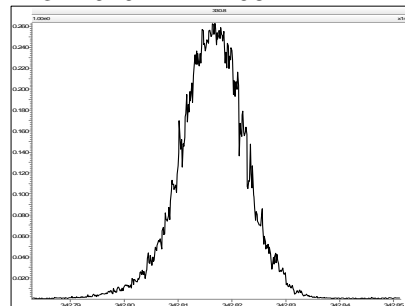
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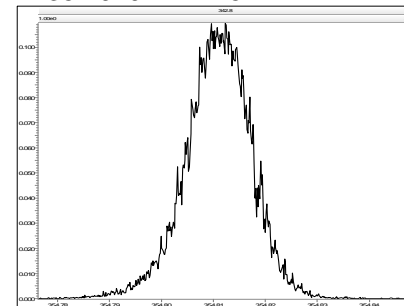
M 330.9792 R 11737



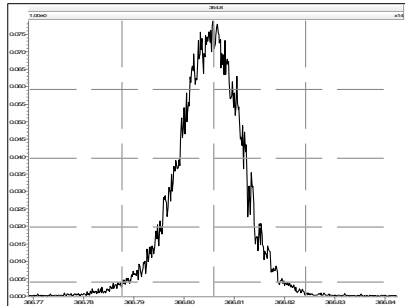
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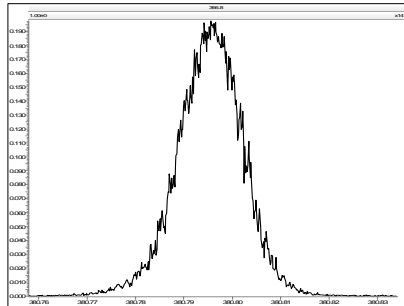
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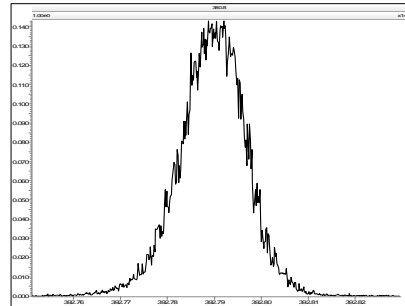
M 366.9792 R 11961



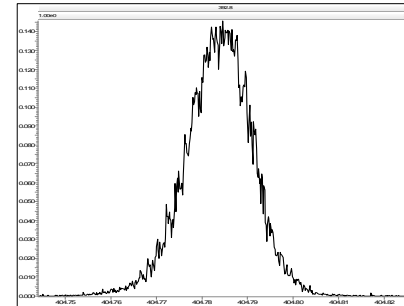
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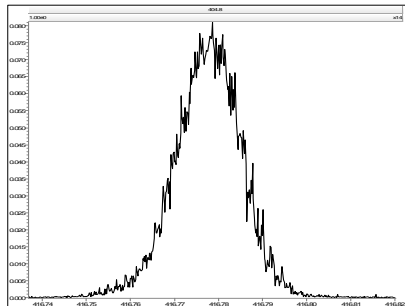
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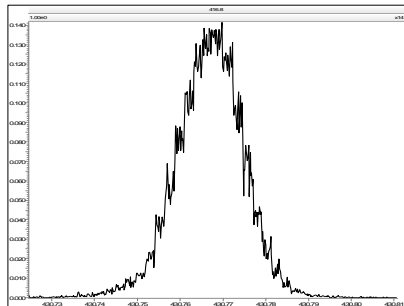
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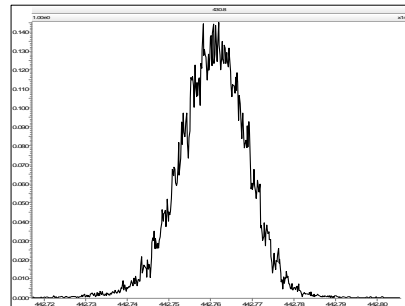
M 416.9760 R 12888



M 430.9728 R 12315



M 442.9728 R 12075



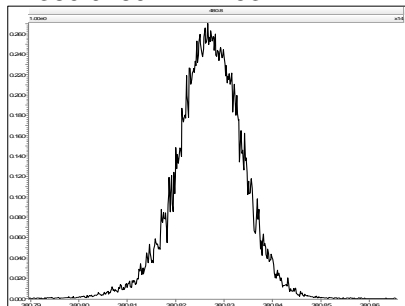
Experiment Calibration Report

MassLynx 4.1

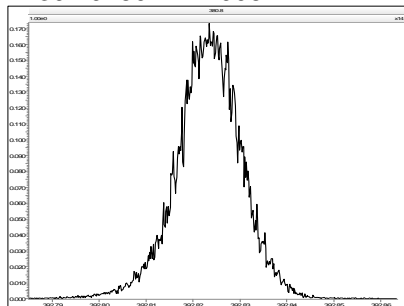
File: Experiment: pcb-2011-08.exp Reference: Pfk2.ref Function: 6 @ 200 (ppm)

Printed: Wednesday, September 11, 2013 12:33:14 Eastern Daylight Time

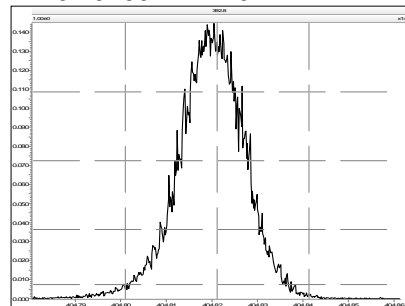
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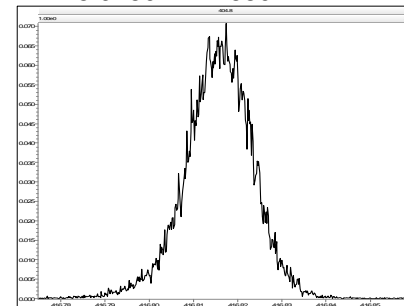
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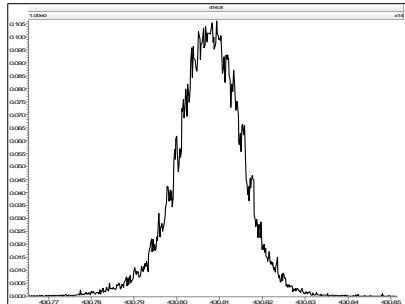
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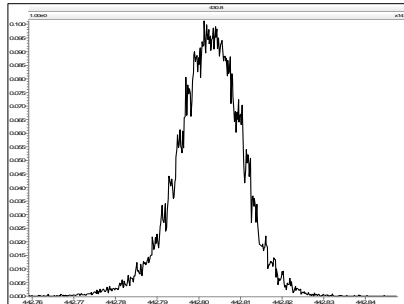
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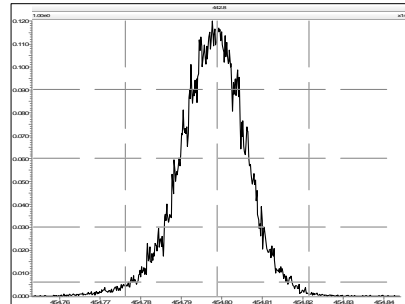
M 430.9728 R 11738



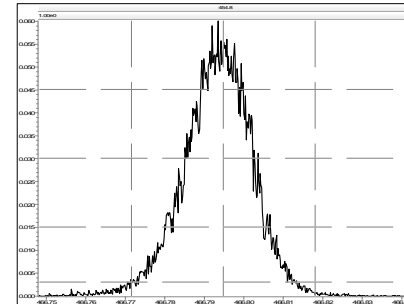
M 442.9728 R 12437



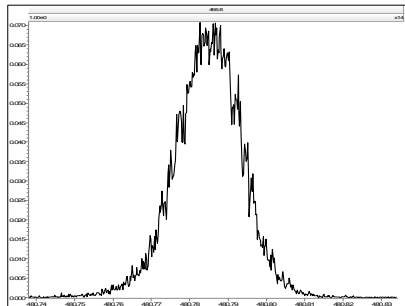
M 454.9728 R 11794



M 466.9728 R 11468



M 480.9696 R 11847



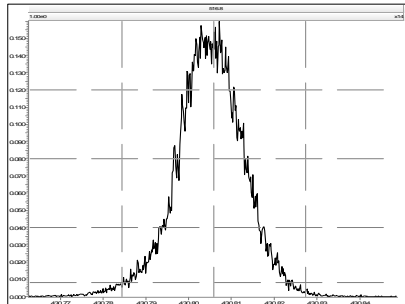
Experiment Calibration Report

MassLynx 4.1

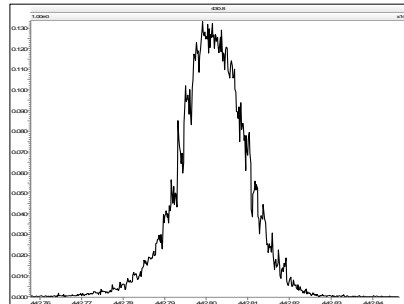
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Printed: Wednesday, September 11, 2013 12:33:40 Eastern Daylight Time

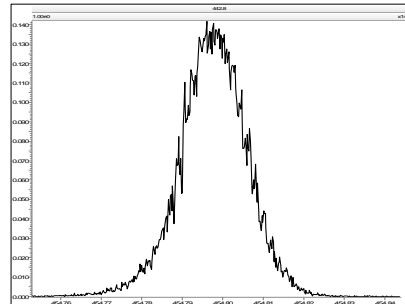
M 430.9728 R 11738



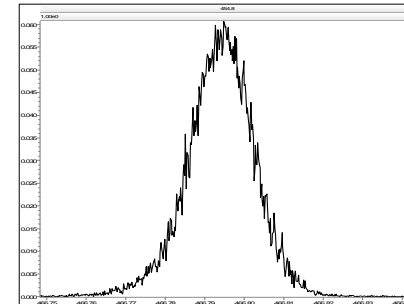
M 442.9728 R 11467



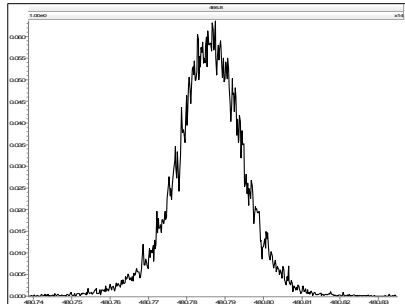
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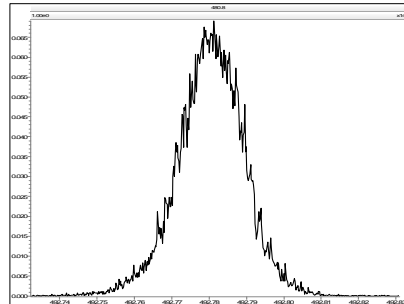
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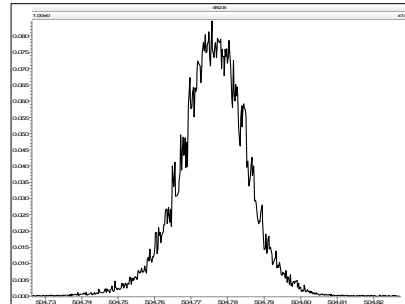
M 480.9696 R 11260



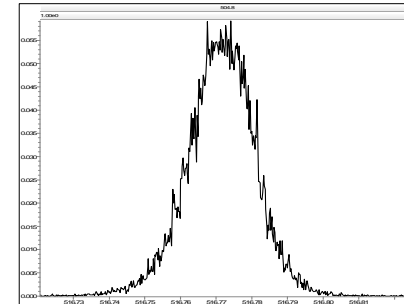
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M 504.9696 R 11570



M 516.9697 R 11739

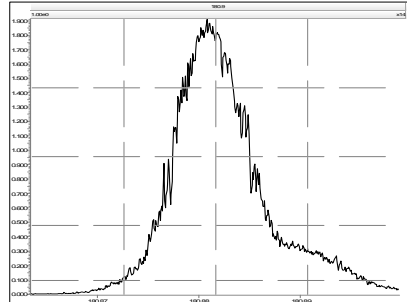


Resolution Check Report

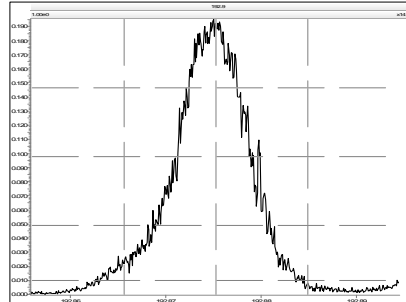
MassLynx 4.1

Printed: Wednesday, September 11, 2013 19:55:58 Eastern Daylight Time

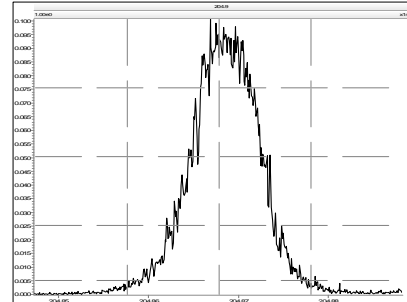
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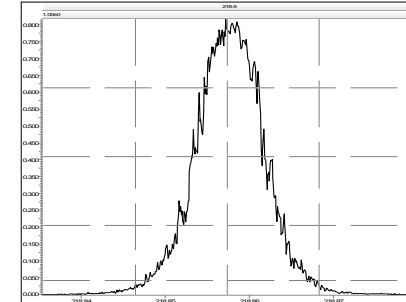
M 192.9888 R 9363



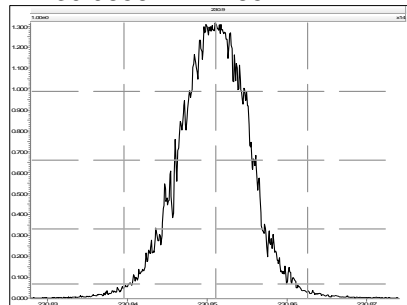
M 204.9888 R 11769



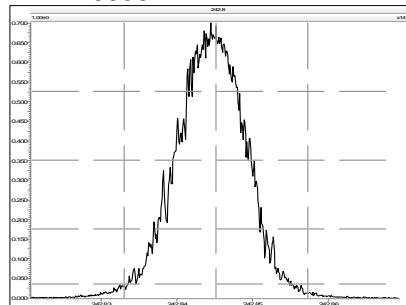
M 218.9856 R 11468



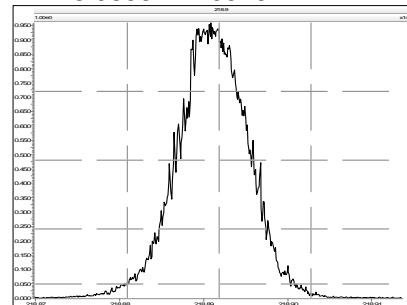
M 230.9856 R 11185



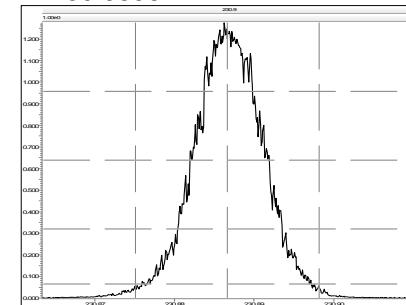
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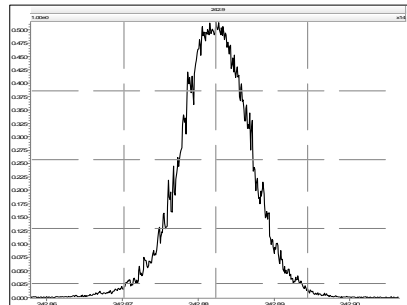
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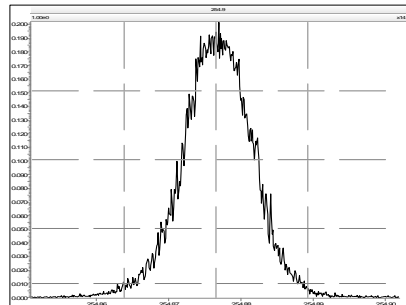
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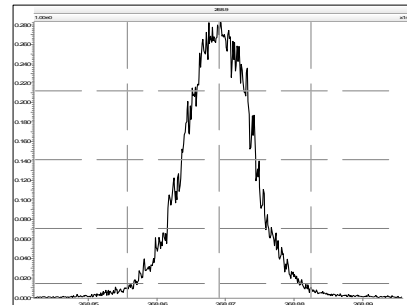
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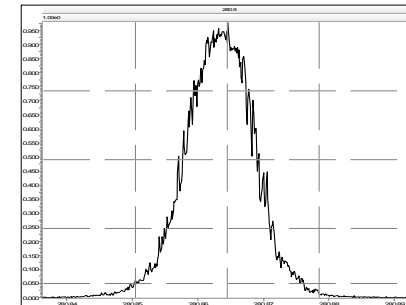
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M 268.9824 R 11261



M 280.9824 R 11118



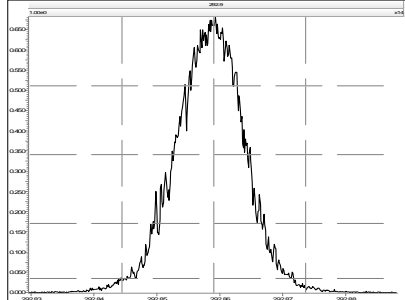
Resolution Check Report

MassLynx 4.1

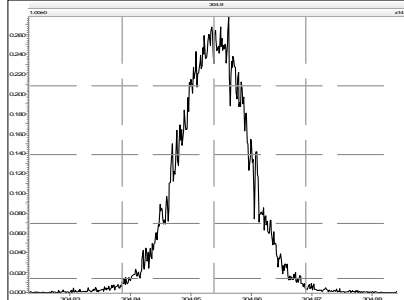
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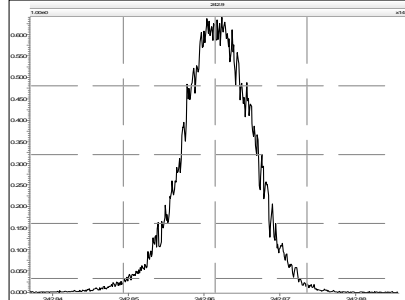
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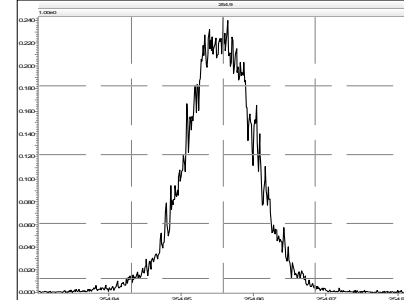
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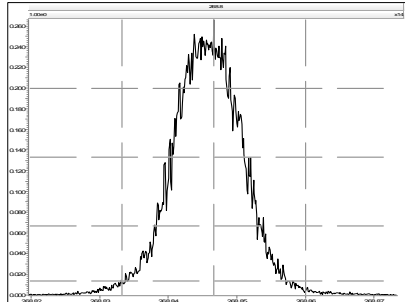
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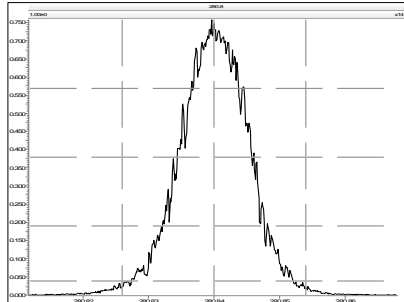
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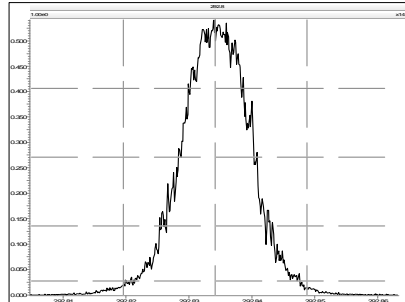
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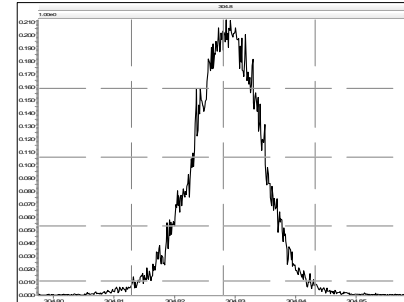
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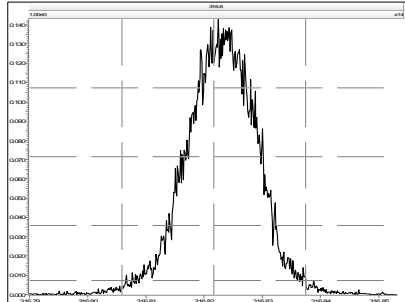
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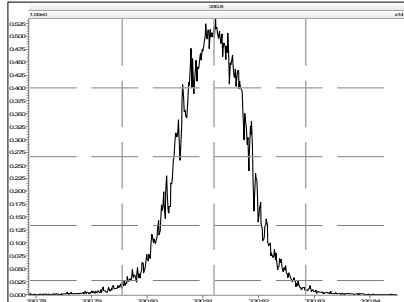
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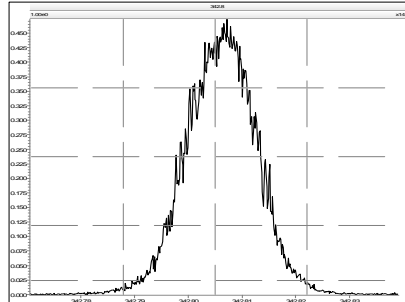
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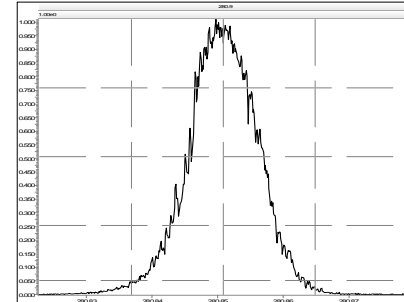
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M 342.9792 R 11363



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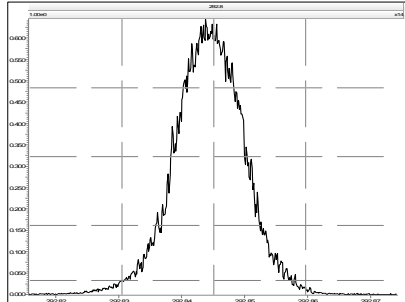
Resolution Check Report

MassLynx 4.1

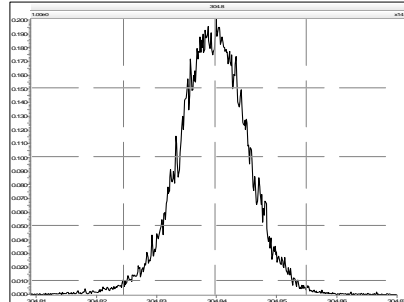
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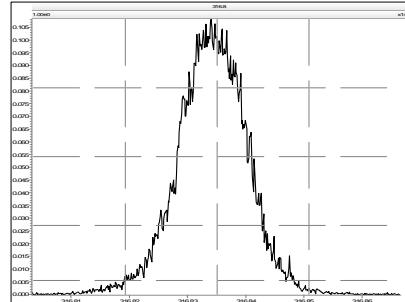
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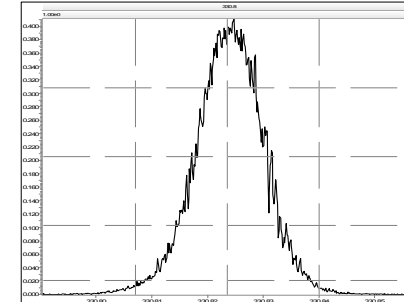
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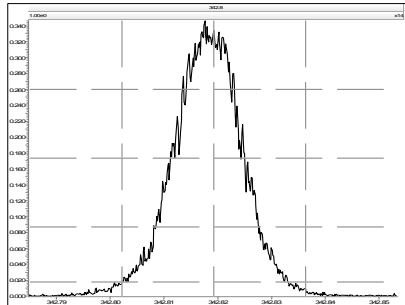
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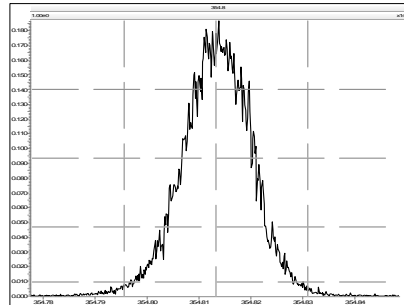
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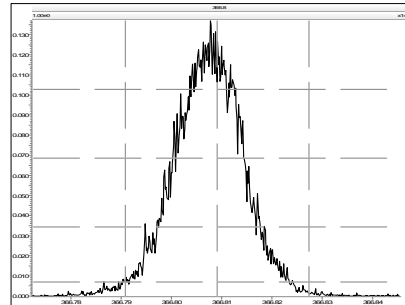
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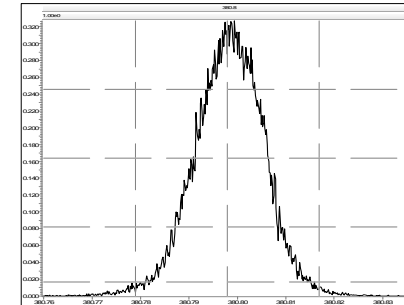
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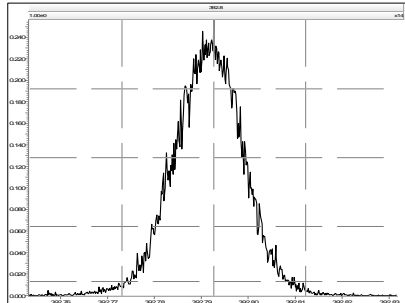
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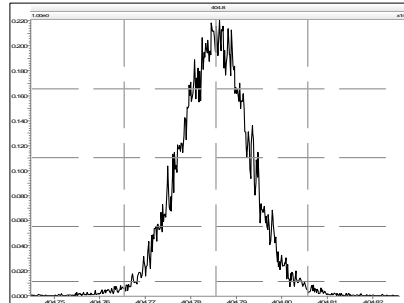
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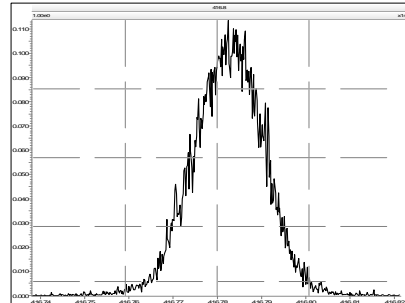
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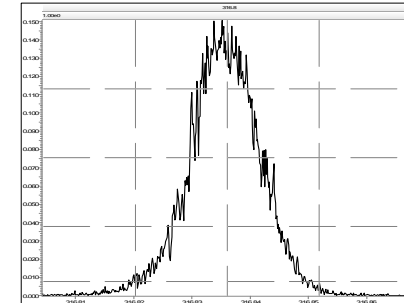
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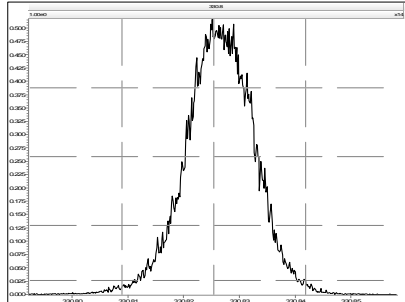
Resolution Check Report

MassLynx 4.1

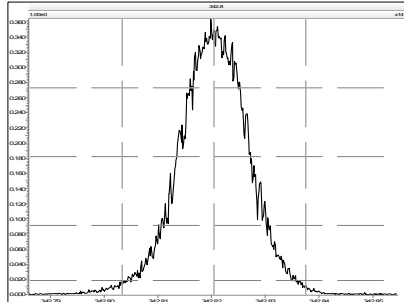
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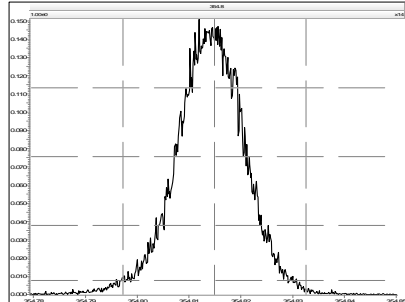
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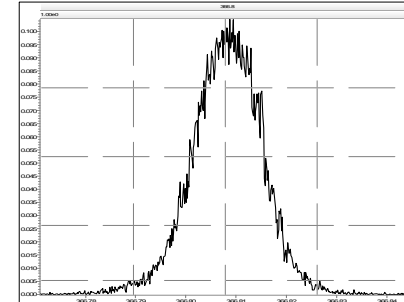
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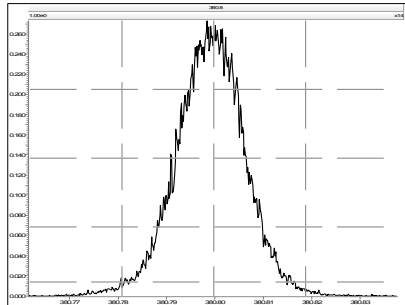
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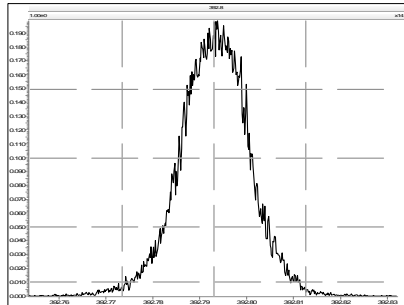
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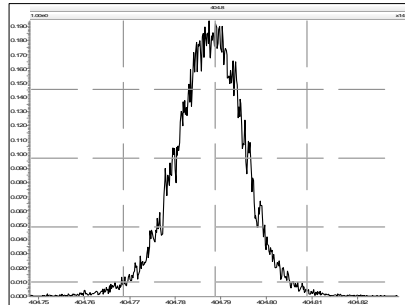
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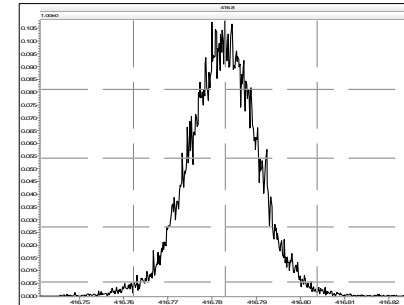
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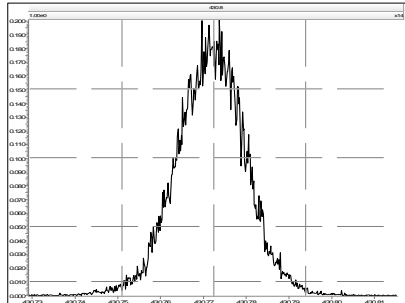
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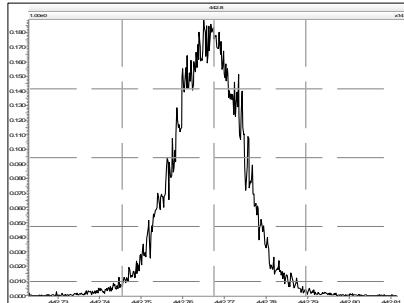
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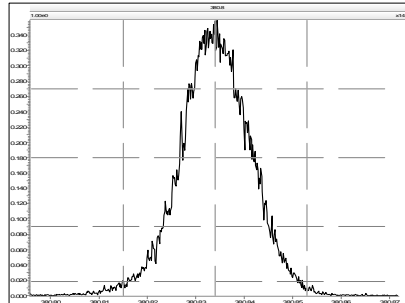
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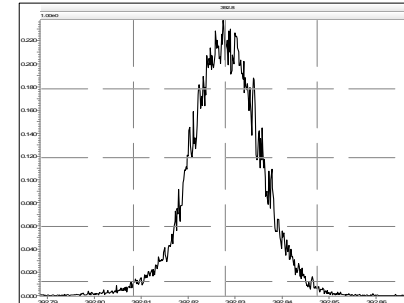
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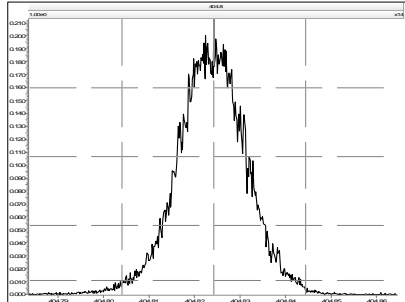


Resolution Check Report

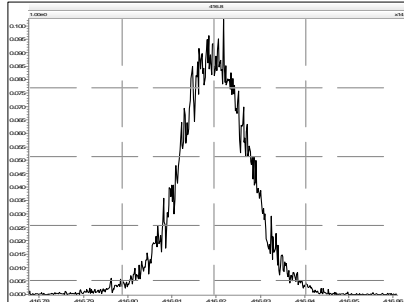
MassLynx 4.1

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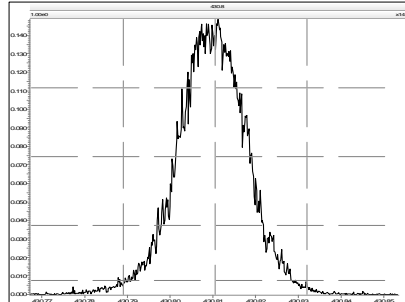
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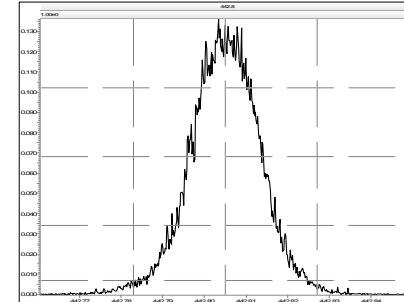
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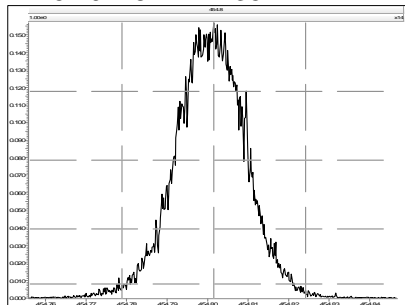
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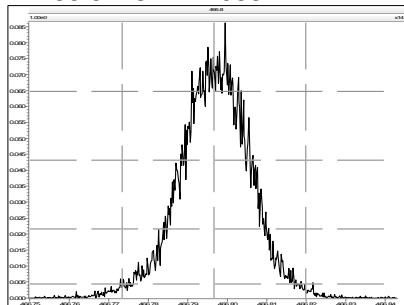
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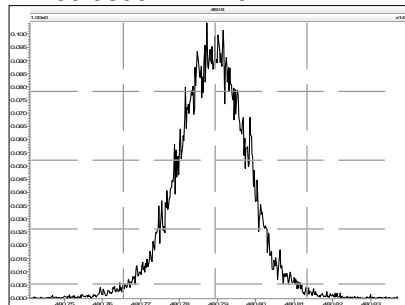
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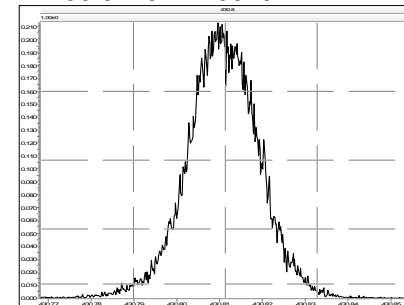
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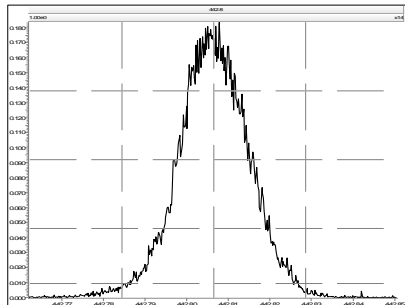
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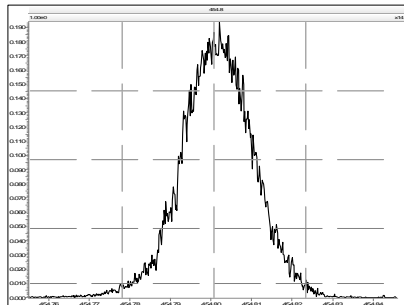
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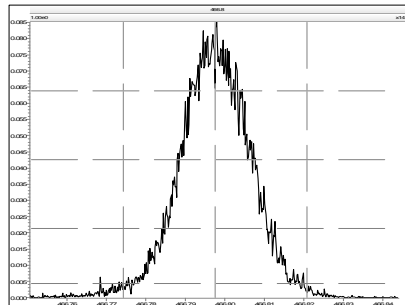
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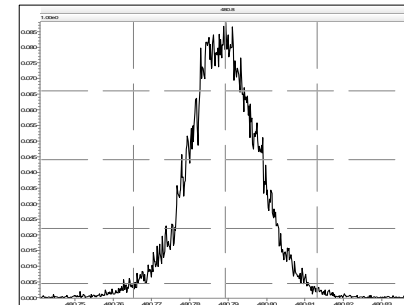
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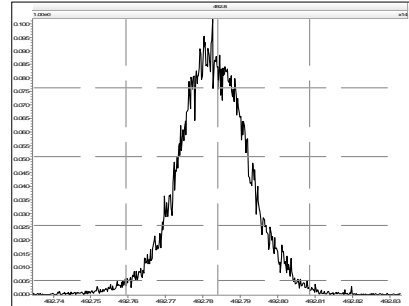
Resolution Check Report

MassLynx 4.1

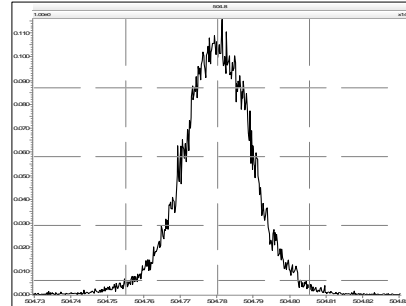
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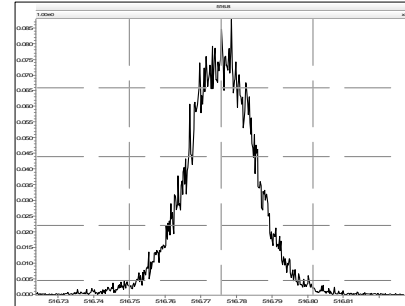
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Lab ID: OPR1_11364_PCB

ACQ: 02-Oct-2013 23:13:41 CTW

Wt/Vol: 1 µL

ICAL: MM4_PCB_07122013_11SEP2013 CS3_131002_PCB_SC

Client ID: 0_11364_OPR001

UTP: 09-Oct-2013 17:16 CTW

J-level: 10 pg/µL Split: 1

Checkcode: 717-475-RRN

Datafile: 131002S14

RPT: 09-Oct-2013 17:19 CW

Stds (pg): JS: 100 ES: 100 CS/SS: 100

Method HR-PCB

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-77 33'44'-TeCB	29.53		1.0006	1.0007	+0.2	1.36E+07	0.79	1.51	45.8	1.39E+04	0.47
PCB-81 344'5'-TeCB	29.06		1.0006	1.0006	0	1.33E+07	0.80	1.27	47	1.39E+04	0.503
PCB-105 233'44'-PeCB	32.49		1.0007	1.0007	0	8.72E+06	0.64	1.00	46.4	5.24E+04	2.88
PCB-114 2344'5'-PeCB	31.95		1.0007	1.0007	0	9.08E+06	0.60	1.06	46.6	5.24E+04	2.52
PCB-118 23'44'5'-PeCB	31.50		1.0008	1.0008	0	8.95E+06	0.59	1.01	47.8	5.24E+04	2.77
PCB-123 23'44'5'-PeCB	31.22		1.0007	1.0007	0	1.01E+07	0.60	1.06	50.7	5.24E+04	2.53
PCB-126 33'44'5'-PeCB	35.11		1.0005	1.0007	+0.4	1.10E+07	0.63	1.26	46.2	2.86E+03	0.127
PCB-156/157 ...-HxCB	37.65	C	1.0005	1.0005	0	1.59E+07	1.23	1.06	94.8	2.91E+03	0.254
PCB-167 23'44'55'-HxCB	36.68		1.0006	1.0006	0	8.61E+06	1.24	1.12	47	2.91E+03	0.16
PCB-169 33'44'55'-HxCB	40.39		1.0005	1.0005	0	5.10E+06	1.26	1.09	47.4	2.91E+03	0.287
PCB-189 233'44'55'-HpCB	42.51		1.0004	1.0005	+0.3	9.64E+06	1.06	1.15	46.1	2.16E+03	0.108
PCB-209 DeCB	47.49		1.0004	1.0004	0	5.28E+06	1.17	1.03	45.9	1.13E+03	0.105
ES PCB-1	9.96		0.7192	0.7186	-0.4	2.63E+07	3.18	1.04	75.4 %	30%	140%
ES PCB-3	11.90		0.8591	0.8588	-0.2	2.66E+07	3.26	0.99	80.3 %	30%	140%
ES PCB-4	12.11		0.8744	0.8741	-0.2	2.06E+07	1.55	0.71	86.7 %	30%	140%
ES PCB-15	17.26		1.2448	1.2456	+0.8	3.32E+07	1.64	1.09	90.9 %	30%	140%
ES PCB-19	14.84		1.0705	1.0706	+0.1	1.71E+07	1.02	0.59	86.3 %	30%	140%
ES PCB-37	23.29		1.0867	1.0868	+0.1	2.41E+07	1.07	1.32	89.4 %	30%	140%
ES PCB-54	17.50		0.8173	0.8168	-0.5	2.43E+07	0.77	1.35	88.2 %	30%	140%
ES PCB-77	29.51		1.3765	1.3770	+0.9	1.97E+07	0.82	1.07	90.4 %	30%	140%
ES PCB-81	29.04		1.3542	1.3549	+1.2	2.22E+07	0.81	1.19	91.5 %	30%	140%
ES PCB-104	22.23		0.8156	0.8152	-0.5	2.32E+07	1.57	1.62	91.4 %	30%	140%
ES PCB-105	32.47		1.1904	1.1906	+0.4	1.89E+07	1.57	1.30	92.7 %	30%	140%
ES PCB-114	31.92		1.1704	1.1706	+0.4	1.84E+07	1.61	1.32	88.9 %	30%	140%
ES PCB-118	31.48		1.1540	1.1542	+0.4	1.85E+07	1.57	1.30	90.8 %	30%	140%
ES PCB-123	31.20		1.1439	1.1441	+0.4	1.87E+07	1.53	1.26	94.8 %	30%	140%
ES PCB-126	35.09		1.2864	1.2867	+0.6	1.88E+07	1.64	1.41	85.6 %	30%	140%
ES PCB-153	33.06		0.9693	0.9692	-0.2	1.61E+07	1.29	1.15	90.5 %	30%	140%
ES PCB-155	27.07		0.7939	0.7937	-0.3	2.11E+07	1.22	1.53	87.8 %	30%	140%
ES PCB-156/157	37.63		1.1032	1.1032	0	3.16E+07	1.25	1.19	85 %	30%	140%
ES PCB-167	36.66		1.0747	1.0747	0	1.64E+07	1.25	1.22	85.5 %	30%	140%
ES PCB-169	40.37		1.1833	1.1835	+0.5	9.90E+06	1.29	1.18	53.4 %	30%	140%
ES PCB-170	39.86		0.9005	0.9005	0	1.25E+07	1.06	1.22	94 %	30%	140%
ES PCB-180	38.80		0.8766	0.8766	0	1.47E+07	1.10	1.41	95.7 %	30%	140%
ES PCB-188	31.91		0.7211	0.7210	-0.2	2.51E+07	1.12	1.71	93.9 %	30%	140%
ES PCB-189	42.49		0.9601	0.9600	-0.3	1.82E+07	1.08	1.84	92.2 %	30%	140%
ES PCB-202	36.45		0.8236	0.8235	-0.2	2.05E+07	0.88	1.42	92.3 %	30%	140%
ES PCB-205	44.66		1.0089	1.0090	+0.3	1.18E+07	0.91	1.25	88.2 %	30%	140%
ES PCB-206	46.13		1.0420	1.0421	+0.3	1.20E+07	0.76	1.24	90.7 %	30%	140%
ES PCB-208	42.09		0.9508	0.9508	0	1.38E+07	0.77	1.42	90.5 %	30%	140%
ES PCB-209	47.47		1.0725	1.0725	0	1.11E+07	1.18	1.23	84.3 %	30%	140%

APPROVED

By Amy Boehm at 2:12 pm, Oct 10, 2013

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-32 24'6-TrCB	17.68		1.1906	1.1914	+0.8	1.29E+07	1.05	1.58	47.7	4.21E+03	0.118
PCB-34 23'5'-TrCB	18.77		0.8062	0.8058	-0.5	1.37E+07	1.06	1.27	44.9	7.46E+03	0.256
PCB-23 235-TrCB	18.90		0.8118	0.8114	-0.5	1.46E+07	1.05	1.31	46.3	7.46E+03	0.249
PCB-26/29 23'5'/245-TrCB	19.17	C	0.8236	0.8232	-0.5	2.91E+07	1.08	1.30	92.7	7.46E+03	0.25
PCB-25 23'4-TrCB	19.36		0.8317	0.8314	-0.3	1.43E+07	1.08	1.33	44.7	7.46E+03	0.246
PCB-31 24'5-TrCB	19.63		0.8432	0.8429	-0.4	1.48E+07	1.06	1.38	44.7	7.46E+03	0.237
PCB-28/20 244'/233'-TrCB	19.90	C	0.8545	0.8542	-0.4	3.05E+07	1.06	1.28	98.7	7.46E+03	0.254
PCB-21/33 234/23'4'-TrCB	20.06	C	0.8617	0.8612	-0.6	2.94E+07	1.06	1.35	90.9	7.46E+03	0.243
PCB-22 234'-TrCB	20.42		0.8772	0.8768	-0.5	1.33E+07	1.07	1.24	44.8	7.46E+03	0.264
PCB-36 33'5-TrCB	21.77		0.9346	0.9344	-0.3	1.52E+07	1.08	1.35	47	7.46E+03	0.242
PCB-39 34'5-TrCB	22.07		0.9476	0.9477	+0.1	1.60E+07	1.06	1.40	47.6	7.46E+03	0.234
PCB-38 345-TrCB	22.57		0.9689	0.9687	-0.3	1.45E+07	1.08	1.26	47.8	7.46E+03	0.258
PCB-35 33'4-TrCB	22.96		0.9859	0.9858	-0.1	1.45E+07	1.08	1.24	48.6	7.46E+03	0.264
PCB-37 344'-TrCB	23.31		1.0009	1.0008	-0.1	1.44E+07	1.05	1.28	46.7	7.46E+03	0.255
PCB-54 22'66'-TeCB	17.52		1.0010	1.0011	+0.1	1.08E+07	0.77	1.00	44.5	2.46E+03	0.0883
PCB-50/53 22'46/22'56'-TeCB	19.40	C	0.9055	0.9053	-0.2	1.58E+07	0.77	0.81	88	2.26E+03	0.128
PCB-45 22'36-TeCB	19.96		0.9315	0.9311	-0.5	6.93E+06	0.78	0.73	42.6	2.26E+03	0.142
PCB-51 22'46'-TeCB	20.02		0.9347	0.9343	-0.5	8.61E+06	0.77	0.79	48.8	2.26E+03	0.131
PCB-46 22'36'-TeCB	20.23		0.9440	0.9437	-0.4	6.74E+06	0.78	0.67	45.6	2.26E+03	0.156
PCB-52 22'55'-TeCB	21.45		1.0010	1.0011	+0.1	8.13E+06	0.76	0.79	46.1	2.26E+03	0.131
PCB-73 23'5'6-TeCB	21.58		1.0067	1.0067	0	1.07E+07	0.76	1.03	46.8	2.26E+03	0.101
PCB-43 22'35-TeCB	21.66		1.0104	1.0105	+0.1	6.35E+06	0.80	0.69	41.3	2.26E+03	0.15
PCB-69/49 23'46/22'45'-TeCB	21.85	C	1.0193	1.0193	0	1.94E+07	0.77	0.95	91.5	2.26E+03	0.109
PCB-48 22'45-TeCB	22.11		1.0316	1.0315	-0.1	8.00E+06	0.77	0.81	44.4	2.26E+03	0.128
PCB-44/47/65 ...-TeCB	22.32	C	1.0413	1.0414	+0.1	2.83E+07	0.77	0.85	150	2.26E+03	0.122
PCB-59/62/75 ...-TeCB	22.58	C	1.0536	1.0536	0	3.26E+07	0.77	1.08	136	2.26E+03	0.0963
PCB-42 22'34'-TeCB	22.75		1.0613	1.0613	0	7.80E+06	0.76	0.73	48.3	2.26E+03	0.143
PCB-41 22'34-TeCB	23.06		1.0760	1.0760	0	6.77E+06	0.74	0.67	45.4	2.26E+03	0.155
PCB-71/40 23'4'6/22'33'-TeCB	23.16	C	1.0807	1.0808	+0.1	1.73E+07	0.77	0.81	96.1	2.26E+03	0.128
PCB-64 234'6-TeCB	23.36		1.0897	1.0898	+0.1	1.17E+07	0.78	1.15	45.8	2.26E+03	0.0905
PCB-72 23'55'-TeCB	24.08		0.8295	0.8293	-0.3	1.32E+07	0.81	1.32	44.9	1.39E+04	0.484
PCB-68 23'45'-TeCB	24.33		0.8380	0.8378	-0.3	1.53E+07	0.79	1.44	47.9	1.39E+04	0.444
PCB-57 233'5-TeCB	24.68		0.8502	0.8500	-0.3	1.27E+07	0.79	1.27	44.9	1.39E+04	0.503
PCB-58 233'5'-TeCB	24.88		0.8571	0.8569	-0.3	1.30E+07	0.79	1.33	43.9	1.39E+04	0.481
PCB-67 23'45-TeCB	25.03		0.8621	0.8619	-0.3	1.45E+07	0.79	1.38	47.3	1.39E+04	0.461
PCB-63 234'5-TeCB	25.25		0.8697	0.8696	-0.2	1.48E+07	0.80	1.41	47.1	1.39E+04	0.453
PCB-61/70/74/76 ...-TeCB	25.53	C	0.8793	0.8792	-0.2	5.21E+07	0.79	1.30	181	1.39E+04	0.492
PCB-66 23'44'-TeCB	25.81		0.8890	0.8889	-0.2	1.23E+07	0.80	1.23	45.1	1.39E+04	0.52
PCB-55 233'4-TeCB	25.95		0.8938	0.8936	-0.3	1.26E+07	0.79	1.26	45	1.39E+04	0.505
PCB-56 233'4'-TeCB	26.38		0.9086	0.9085	-0.2	1.22E+07	0.81	1.21	45.3	1.39E+04	0.529
PCB-60 2344'-TeCB	26.56		0.9148	0.9148	0	1.29E+07	0.77	1.27	45.8	1.39E+04	0.503
PCB-80 33'55'-TeCB	26.92		0.9271	0.9270	-0.2	1.48E+07	0.81	1.46	45.5	1.39E+04	0.438
PCB-79 33'45'-TeCB	28.21		0.9716	0.9716	0	1.48E+07	0.79	1.49	44.5	1.39E+04	0.428
PCB-78 33'45-TeCB	28.68		0.9878	0.9878	0	1.24E+07	0.80	1.22	45.7	1.39E+04	0.523
PCB-104 22'466'-PeCB	22.25		1.0010	1.0009	-0.1	1.10E+07	0.62	1.06	45.1	1.68E+03	0.0662
PCB-96 22'366'-PeCB	22.57		1.0150	1.0150	0	9.71E+06	0.63	0.87	47.9	1.68E+03	0.0799
PCB-103 22'45'6-PeCB	24.23		0.8886	0.8884	-0.3	7.26E+06	0.62	0.85	45.7	5.24E+04	3.16
PCB-94 22'356'-PeCB	24.41		0.8954	0.8952	-0.3	6.49E+06	0.60	0.75	46.2	5.24E+04	3.58

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-95 22'35'6-PeCB	24.79		0.9092	0.9091	-0.1	6.38E+06	0.64	0.79	42.9	5.24E+04	3.38
PCB-100/93 22'44'6/22'356-PeCB	24.98	C	0.9162	0.9160	-0.3	1.34E+07	0.63	0.83	86.7	5.24E+04	3.24
PCB-102 22'456'-PeCB	25.10		0.9204	0.9204	0	8.21E+06	0.61	0.81	53.9	5.24E+04	3.3
PCB-98 22'34'6'-PeCB	25.16		0.9226	0.9226	0	5.89E+06	0.60	0.80	39.3	5.24E+04	3.36
PCB-88 22'346-PeCB	25.44		0.9331	0.9329	-0.3	5.55E+06	0.61	0.73	40.4	5.24E+04	3.66
PCB-91 22'34'6-PeCB	25.52		0.9360	0.9358	-0.3	7.28E+06	0.60	0.89	43.8	5.24E+04	3.02
PCB-84 22'33'6-PeCB	25.71		0.9429	0.9428	-0.2	5.56E+06	0.63	0.69	43.2	5.24E+04	3.9
PCB-89 22'346'-PeCB	26.11		0.9577	0.9576	-0.2	6.35E+06	0.61	0.73	46.3	5.24E+04	3.66
PCB-121 23'45'6-PeCB	26.48		0.9710	0.9709	-0.2	8.77E+06	0.61	1.09	43	5.24E+04	2.46
PCB-92 22'355'-PeCB	26.80		0.9827	0.9826	-0.2	6.28E+06	0.62	0.77	43.5	5.24E+04	3.49
PCB-113/90/101 ...-PeCB	27.27	C	1.0000	1.0000	0	2.17E+07	0.63	0.90	129	5.24E+04	2.99
PCB-83 22'33'5-PeCB	27.69		1.0154	1.0154	0	5.58E+06	0.63	0.70	42.8	5.24E+04	3.85
PCB-99 22'44'5-PeCB	27.78		1.0187	1.0188	+0.2	6.88E+06	0.62	0.82	44.7	5.24E+04	3.27
PCB-112 233'56-PeCB	27.88		1.0224	1.0224	0	8.69E+06	0.63	1.04	44.6	5.24E+04	2.58
PCB-108/119/86/97/125...-PeCB	28.22	C	1.0348	1.0348	0	4.46E+07	0.62	0.90	264	5.24E+04	2.98
PCB-117 234'56-PeCB	28.74		1.0539	1.0539	0	7.69E+06	0.61	0.95	43.1	5.24E+04	2.82
PCB-116/85 23456/22'344'-PeCB	28.81	C	1.0565	1.0566	+0.2	1.57E+07	0.62	0.94	89.5	5.24E+04	2.86
PCB-110 233'4'6-PeCB	28.96		1.0620	1.0620	0	8.99E+06	0.63	0.90	53.5	5.24E+04	2.99
PCB-115 2344'6-PeCB	29.03		1.0644	1.0645	+0.2	7.94E+06	0.64	1.18	35.8	5.24E+04	2.27
PCB-82 22'33'4-PeCB	29.23		1.0717	1.0717	0	5.58E+06	0.62	0.67	44.8	5.24E+04	4.03
PCB-111 233'55'-PeCB	29.57		1.0843	1.0844	+0.2	9.52E+06	0.64	1.10	46	5.24E+04	2.43
PCB-120 23'455'-PeCB	29.96		1.0986	1.0986	0	9.49E+06	0.61	1.11	45.4	5.24E+04	2.41
PCB-107/124 ...-PeCB	30.92	C	0.9910	0.9909	-0.2	1.67E+07	0.61	1.01	88.3	5.24E+04	2.65
PCB-109 233'46-PeCB	31.12		0.9975	0.9975	0	8.69E+06	0.60	1.06	43.8	5.24E+04	2.53
PCB-106 233'45-PeCB	31.32		1.0038	1.0039	+0.2	8.59E+06	0.60	0.99	46.2	5.24E+04	2.7
PCB-122 233'4'5'-PeCB	31.79		1.0099	1.0099	0	8.01E+06	0.60	0.94	46.2	5.24E+04	2.84
PCB-127 33'455'-PeCB	33.75		1.0393	1.0394	+0.2	8.34E+06	0.61	1.03	42.9	5.24E+04	2.78
PCB-155 22'44'66'-HxCB	27.09		1.0008	1.0007	-0.2	1.06E+07	1.25	1.12	44.7	1.40E+03	0.0574
PCB-152 22'3566'-HxCB	27.25		1.0068	1.0067	-0.2	1.02E+07	1.24	1.05	46.1	1.40E+03	0.0617
PCB-150 22'34'66'-HxCB	27.40		1.0121	1.0121	0	1.03E+07	1.25	1.04	46.7	1.40E+03	0.0618
PCB-136 22'33'66'-HxCB	27.70		1.0233	1.0233	0	9.59E+06	1.27	0.97	47	1.40E+03	0.0668
PCB-145 22'3466'-HxCB	27.95		1.0326	1.0326	0	9.69E+06	1.25	0.98	46.7	1.40E+03	0.0656
PCB-148 22'34'56'-HxCB	29.24		1.0801	1.0802	+0.2	7.69E+06	1.24	1.05	45.8	1.40E+03	0.0826
PCB-151/135 ...-HxCB	29.76	C	1.0993	1.0994	+0.2	1.49E+07	1.25	1.02	91.6	1.40E+03	0.0851
PCB-154 22'44'56'-HxCB	29.96		1.1066	1.1066	0	8.70E+06	1.25	1.13	47.9	1.40E+03	0.0765
PCB-144 22'345'6-HxCB	30.22		1.1162	1.1163	+0.2	7.76E+06	1.26	1.02	47.3	1.40E+03	0.0845
PCB-147/149 ...-HxCB	30.52	C	1.1274	1.1275	+0.2	1.61E+07	1.24	1.03	97.1	1.40E+03	0.0836
PCB-134 22'33'56-HxCB	30.69		1.1335	1.1336	+0.2	6.00E+06	1.25	0.80	46.7	1.40E+03	0.108
PCB-143 22'3456'-HxCB	30.77		1.1364	1.1365	+0.2	7.96E+06	1.22	1.04	47.7	1.40E+03	0.0831
PCB-139/140 ...-HxCB	31.03	C	1.1460	1.1461	+0.2	1.56E+07	1.24	1.06	91.7	1.40E+03	0.0814
PCB-131 22'33'46-HxCB	31.20		1.1522	1.1524	+0.4	7.26E+06	1.25	0.92	49	1.40E+03	0.0937
PCB-142 22'3456-HxCB	31.33		1.1570	1.1571	+0.2	7.15E+06	1.22	0.93	47.8	1.40E+03	0.0929
PCB-132 22'33'46'-HxCB	31.58		1.1665	1.1667	+0.4	7.08E+06	1.26	0.95	46.4	1.40E+03	0.091
PCB-133 22'33'55'-HxCB	32.02		1.1825	1.1827	+0.4	7.28E+06	1.24	1.00	45.2	1.40E+03	0.0862
PCB-165 233'55'6-HxCB	32.35		0.9486	0.9486	0	9.12E+06	1.25	1.21	46.9	1.40E+03	0.0714
PCB-146 22'34'55'-HxCB	32.56		0.9548	0.9547	-0.2	7.97E+06	1.24	1.08	45.8	1.40E+03	0.0798
PCB-161 233'45'6-HxCB	32.67		0.9581	0.9579	-0.4	1.03E+07	1.26	1.36	47.1	1.40E+03	0.0637
PCB-153/168 ...-HxCB	33.10	C	0.9705	0.9705	0	1.83E+07	1.23	1.26	90.2	1.40E+03	0.0686

Name	Actual RT	QC	Pred RRT	Actual RRT	Diff Secs	Response	Ra	RRF	Conc. / Recv.	Noise / Recv. Low	DL / Recv. High
PCB-141 22'3455'-HxCB	33.25		0.9747	0.9747	0	7.27E+06	1.25	0.98	46	1.40E+03	0.0879
PCB-130 22'33'45'-HxCB	33.59		0.9848	0.9847	-0.2	6.52E+06	1.23	0.88	46.3	1.40E+03	0.0985
PCB-137 22'344'5'-HxCB	33.78		0.9903	0.9903	0	8.10E+06	1.23	1.01	49.8	1.40E+03	0.0853
PCB-164 233'4'5'6'-HxCB	33.88		0.9931	0.9932	+0.2	8.94E+06	1.25	1.33	42	1.40E+03	0.0653
PCB-163/138/129 ...-HxCB	34.15	C	1.0013	1.0013	0	2.36E+07	1.23	1.03	143	1.40E+03	0.084
PCB-160 233'456-HxCB	34.27		1.0048	1.0048	0	8.91E+06	1.27	1.34	41.3	1.40E+03	0.0644
PCB-158 233'44'6'-HxCB	34.46		1.0104	1.0104	0	1.02E+07	1.23	1.38	45.9	1.40E+03	0.0628
PCB-128/166 ...-HxCB	35.19	C	0.9599	0.9599	0	1.44E+07	1.23	0.90	97.1	2.91E+03	0.198
PCB-159 233'455'-HxCB	36.03		0.9830	0.9830	0	8.05E+06	1.24	1.08	45.4	2.91E+03	0.165
PCB-162 233'4'55'-HxCB	36.28		0.9897	0.9897	0	8.51E+06	1.24	1.10	47.3	2.91E+03	0.163
PCB-188 22'34'566'-HpCB	31.94		1.0007	1.0007	0	1.09E+07	1.04	0.97	44.8	1.64E+03	0.0689
PCB-179 22'33'566'-HpCB	32.22		1.0096	1.0096	0	1.06E+07	1.04	0.89	47.6	1.64E+03	0.0754
PCB-184 22'344'66'-HpCB	32.67		1.0236	1.0235	-0.2	9.96E+06	1.03	0.88	45.3	1.64E+03	0.0763
PCB-176 22'33'466'-HpCB	32.96		1.0329	1.0329	0	1.11E+07	1.05	0.97	45.9	1.64E+03	0.0691
PCB-186 22'34566'-HpCB	33.35		1.0449	1.0449	0	1.04E+07	1.05	0.91	45.6	1.64E+03	0.0734
PCB-178 22'33'55'6'-HpCB	34.52		1.0815	1.0816	+0.2	8.07E+06	1.07	0.68	47.4	1.64E+03	0.0984
PCB-175 22'33'45'6'-HpCB	35.05		1.0983	1.0984	+0.2	6.97E+06	1.02	0.96	49.5	3.73E+03	0.268
PCB-187 22'34'55'6'-HpCB	35.28		1.1055	1.1056	+0.2	7.03E+06	1.06	1.00	47.7	3.73E+03	0.257
PCB-182 22'344'56'-HpCB	35.45		1.1108	1.1109	+0.2	7.46E+06	1.02	1.04	48.9	3.73E+03	0.248
PCB-183 22'344'5'6'-HpCB	35.80		1.1217	1.1216	-0.2	6.75E+06	0.98	1.00	46.1	3.73E+03	0.258
PCB-185 22'3455'6'-HpCB	35.88		1.1242	1.1241	-0.2	6.90E+06	1.02	1.03	45.8	3.73E+03	0.251
PCB-174 22'33'456'-HpCB	36.00		1.1278	1.1279	+0.2	5.88E+06	0.99	0.88	45.8	3.73E+03	0.294
PCB-177 22'33'45'6'-HpCB	36.37		1.1394	1.1396	+0.4	5.99E+06	1.05	0.87	47	3.73E+03	0.296
PCB-181 22'344'56'-HpCB	36.70		1.1499	1.1500	+0.2	6.54E+06	1.01	1.00	44.7	3.73E+03	0.258
PCB-171/173 ...-HpCB	36.88	C	1.1556	1.1557	+0.2	1.19E+07	1.04	0.88	92.4	3.73E+03	0.294
PCB-172 22'33'455'-HpCB	38.27		0.9006	0.9006	0	6.13E+06	1.04	0.91	45.9	3.73E+03	0.282
PCB-192 233'455'6'-HpCB	38.51		0.9062	0.9062	0	7.99E+06	1.04	1.17	46.7	3.73E+03	0.221
PCB-180/193 ...-HpCB	38.79	C	0.9129	0.9129	0	1.48E+07	1.04	1.11	90.9	3.73E+03	0.232
PCB-191 233'44'5'6'-HpCB	39.12		0.9205	0.9205	0	8.24E+06	1.02	1.22	46.1	3.73E+03	0.211
PCB-170 22'33'44'5'-HpCB	39.88		0.9385	0.9385	0	5.84E+06	1.03	1.02	45.9	3.73E+03	0.305
PCB-190 233'44'56'-HpCB	40.32		0.9489	0.9489	0	7.97E+06	1.04	1.36	46.9	3.73E+03	0.228
PCB-202 22'33'55'66'-OoCB	36.47		1.0006	1.0006	0	7.76E+06	0.91	0.83	45.5	1.56E+03	0.0912
PCB-201 22'33'45'66'-OoCB	37.25		1.0219	1.0219	0	8.53E+06	0.88	0.93	44.8	1.56E+03	0.0816
PCB-204 22'344'566'-OoCB	37.82		1.0375	1.0375	0	8.20E+06	0.87	0.87	46.1	1.56E+03	0.0873
PCB-197 22'33'44'66'-OoCB	38.01		1.0428	1.0428	0	9.15E+06	0.87	1.00	44.6	1.56E+03	0.0758
PCB-200 22'33'4566'-OoCB	38.10		1.0453	1.0453	0	8.12E+06	0.89	0.89	44.6	1.56E+03	0.0854
PCB-198/199 ...-OoCB	40.46	C	1.1098	1.1098	0	1.24E+07	0.89	0.67	90.9	1.56E+03	0.114
PCB-196 22'33'44'56'-OoCB	41.03		1.1254	1.1255	+0.2	6.33E+06	0.85	0.70	44.3	1.56E+03	0.109
PCB-203 22'344'55'6'-OoCB	41.19		1.1300	1.1300	0	6.44E+06	0.89	0.72	43.8	1.56E+03	0.106
PCB-195 22'33'44'56'-OoCB	42.31		0.9473	0.9473	0	4.61E+06	0.90	0.83	46.8	1.43E+03	0.155
PCB-194 22'33'44'55'-OoCB	44.28		0.9916	0.9915	-0.3	4.91E+06	0.89	0.91	45.5	1.43E+03	0.142
PCB-205 233'44'55'6'-OoCB	44.68		1.0004	1.0004	0	6.07E+06	0.93	1.08	47.4	1.43E+03	0.12
PCB-208 22'33'455'66'-NoCB	42.11		1.0005	1.0005	0	6.15E+06	0.76	0.99	45	1.60E+03	0.121
PCB-207 22'33'44'566'-NoCB	42.89		1.0191	1.0191	0	6.52E+06	0.77	1.03	45.9	1.60E+03	0.117
PCB-206 22'33'44'55'6'-NoCB	46.15		1.0004	1.0004	0	4.44E+06	0.80	0.83	44.5	1.60E+03	0.169

METHOD HR-PCB**PCB ONGOING PRECISION AND RECOVERY (OPR)****FORM 8A**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM4_PCB_07122013_11SEP2013
 Instrument ID: MM4 GC Column ID:
 VER Data Filename: 131002S14 Analysis Date: 02-OCT-2013 23:13:41
 Lab ID: OPR1_11364_PCB

NATIVE ANALYTES	SPIKE CONC.	RECOVERY	RANGE (%)	OK
PCB-1 2-MoCB	50	84	50 - 150	Y
PCB-3 4-MoCB	50	85.6	50 - 150	Y
PCB-4 22'-DiCB	50	89.8	50 - 150	Y
PCB-15 44'-DiCB	50	87.9	50 - 150	Y
PCB-19 22'6'-TrCB	50	90.9	50 - 150	Y
PCB-37 344'-TrCB	50	93.3	50 - 150	Y
PCB-54 22'66'-TeCB	50	89	50 - 150	Y
PCB-77 33'44'-TeCB	50	91.6	50 - 150	Y
PCB-81 344'5'-TeCB	50	94	50 - 150	Y
PCB-104 22'466'-PeCB	50	90.2	50 - 150	Y
PCB-105 233'44'-PeCB	50	92.8	50 - 150	Y
PCB-114 2344'5'-PeCB	50	93.3	50 - 150	Y
PCB-118 23'44'5'-PeCB	50	95.6	50 - 150	Y
PCB-123 23'44'5'-PeCB	50	101	50 - 150	Y
PCB-126 33'44'5'-PeCB	50	92.4	50 - 150	Y
PCB-155 22'44'66'-HxCB	50	89.5	50 - 150	Y
PCB-156/157 ...-HxCB	100	94.8	50 - 150	Y
PCB-167 23'44'55'-HxCB	50	94	50 - 150	Y
PCB-169 33'44'55'-HxCB	50	94.9	50 - 150	Y
PCB-188 22'34'566'-HpCB	50	89.5	50 - 150	Y
PCB-189 233'44'55'-HpCB	50	92.2	50 - 150	Y
PCB-202 22'33'55'66'-OcCB	50	91.1	50 - 150	Y
PCB-205 233'44'55'6-OcCB	50	94.9	50 - 150	Y
PCB-206 22'33'44'55'6-NoCB	50	89	50 - 150	Y
PCB-208 22'33'455'66'-NoCB	50	90	50 - 150	Y
PCB-209 DeCB	50	91.8	50 - 150	Y

Contract-required recovery limits for OPR as specified in Table 6,
 Method 1668A.

METHOD HR-PCB

PCB ONGOING PRECISION AND RECOVERY (OPR)

FORM 8B

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM4_PCB_07122013_11SEP2013
 Instrument ID: MM4 GC Column ID:
 VER Data Filename: 131002S14 Analysis Date: 02-OCT-2013 23:13:41
 Lab ID: OPR1_11364_PCB

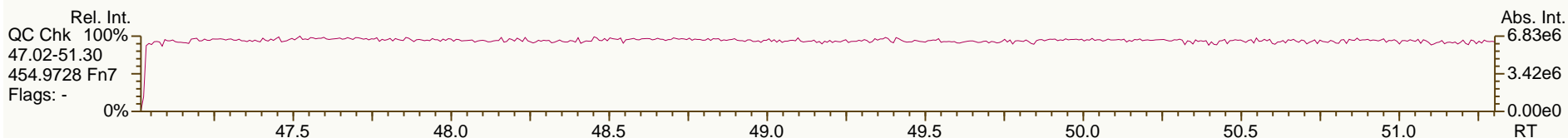
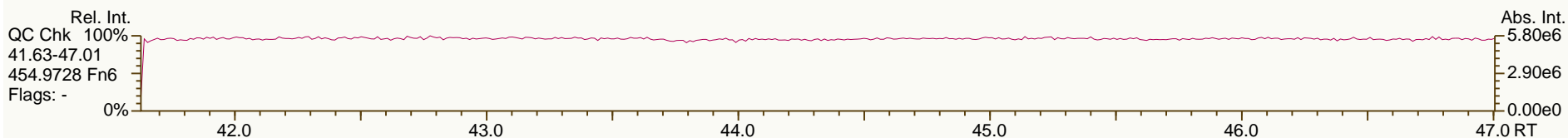
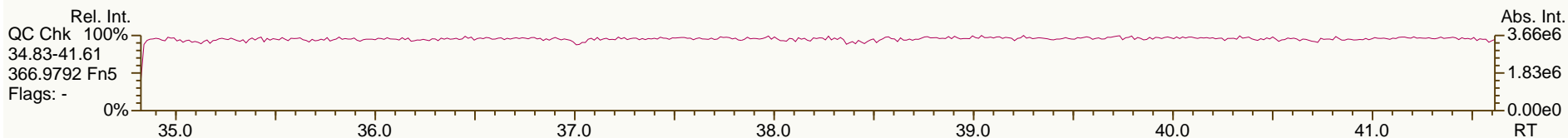
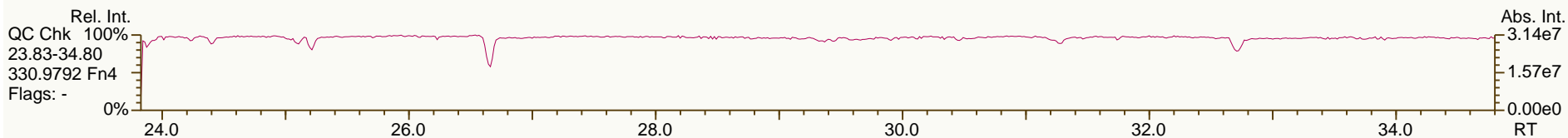
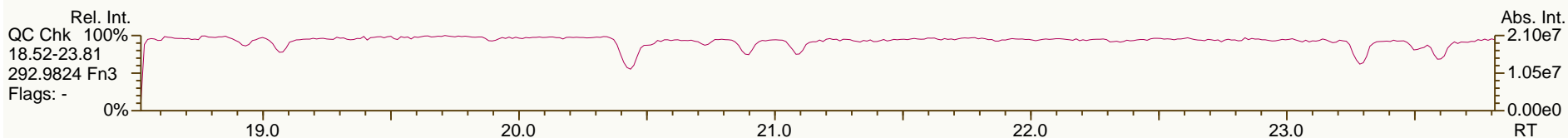
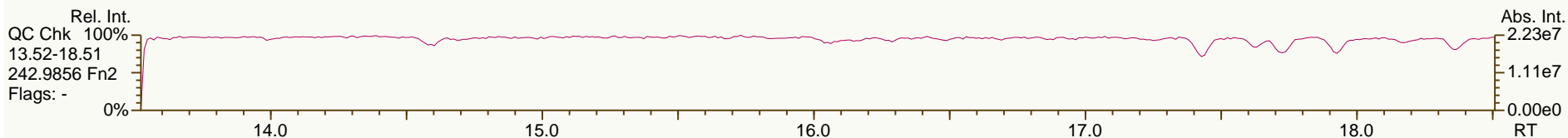
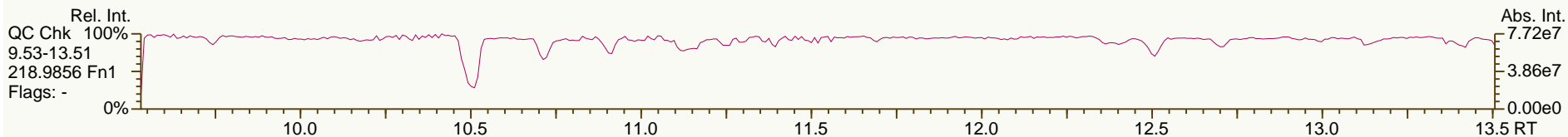
LABELLED STANDARDS	SPIKE CONC.	RECOVERY	RANGE (%)			OK
ES PCB-1	100	75.4	30	-	140	Y
ES PCB-3	100	80.3	30	-	140	Y
ES PCB-4	100	86.7	30	-	140	Y
ES PCB-15	100	90.9	30	-	140	Y
ES PCB-19	100	86.3	30	-	140	Y
ES PCB-37	100	89.4	30	-	140	Y
ES PCB-54	100	88.2	30	-	140	Y
ES PCB-77	100	90.4	30	-	140	Y
ES PCB-81	100	91.5	30	-	140	Y
ES PCB-104	100	91.4	30	-	140	Y
ES PCB-105	100	92.7	30	-	140	Y
ES PCB-114	100	88.9	30	-	140	Y
ES PCB-118	100	90.8	30	-	140	Y
ES PCB-123	100	94.8	30	-	140	Y
ES PCB-126	100	85.6	30	-	140	Y
ES PCB-153	100	90.5	30	-	140	Y
ES PCB-155	100	87.8	30	-	140	Y
ES PCB-156/157	200	85	30	-	140	Y
ES PCB-167	100	85.5	30	-	140	Y
ES PCB-169	100	53.4	30	-	140	Y
ES PCB-170	100	94	30	-	140	Y
ES PCB-180	100	95.7	30	-	140	Y
ES PCB-188	100	93.9	30	-	140	Y
ES PCB-189	100	92.2	30	-	140	Y
ES PCB-202	100	92.3	30	-	140	Y
ES PCB-205	100	88.2	30	-	140	Y
ES PCB-206	100	90.7	30	-	140	Y
ES PCB-208	100	90.5	30	-	140	Y
ES PCB-209	100	84.3	30	-	140	Y
CLEANUP STANDARDS						
CS PCB-28	100	101	40	-	125	Y
CS PCB-111	100	100	40	-	125	Y
CS PCB-178	100	102	40	-	125	Y

Processed: 09 Oct 2013 17:19 Analyst: CW

SGS-AP ID: OPR1_11364_PCB
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

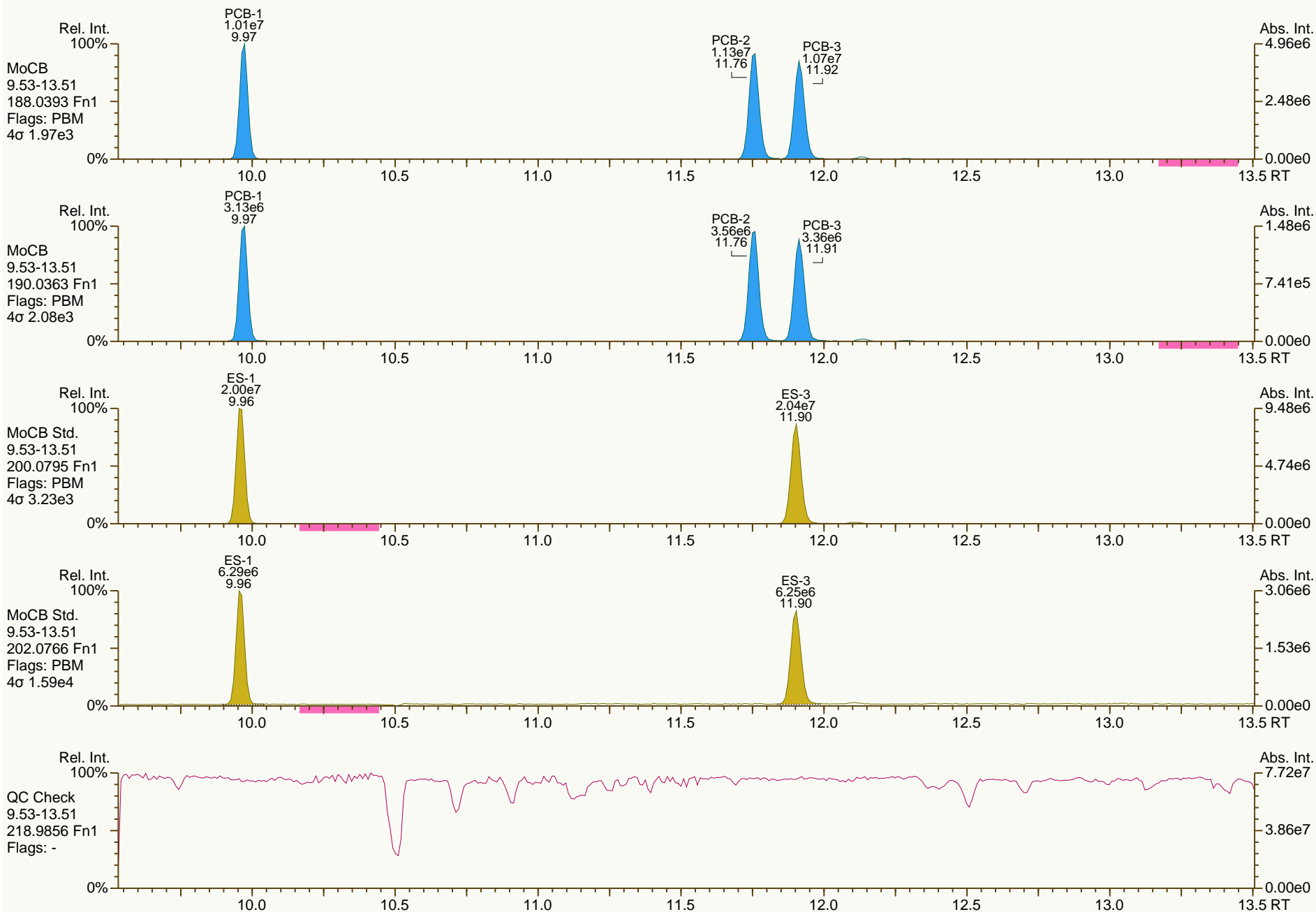
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SGS-AP ID: OPR1_11364_PCB
 Instr: AutoSpec-Ultima MM4

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 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

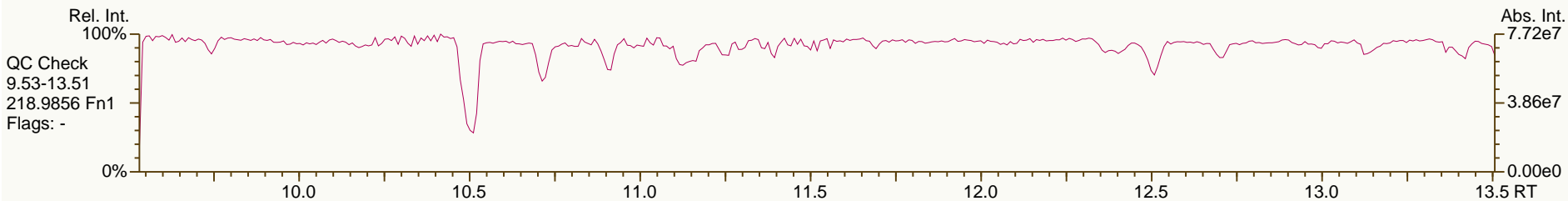
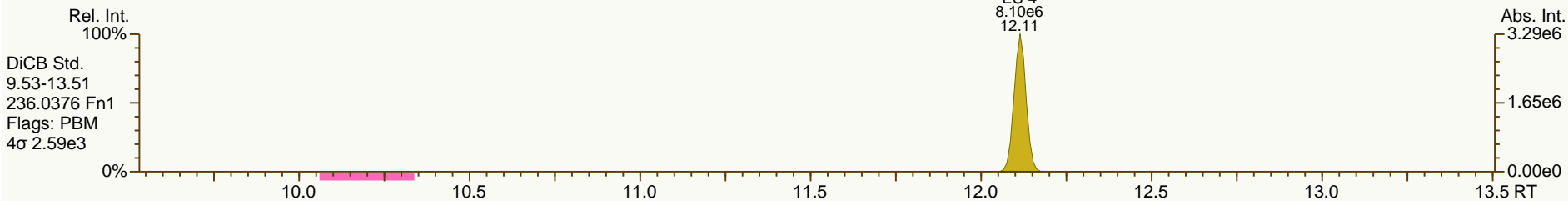
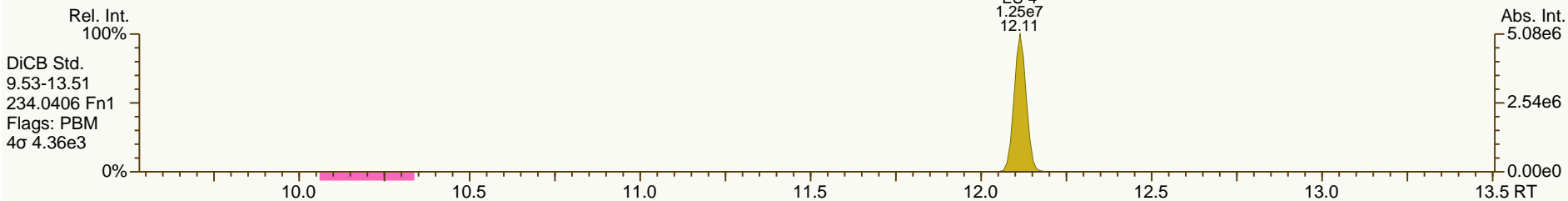
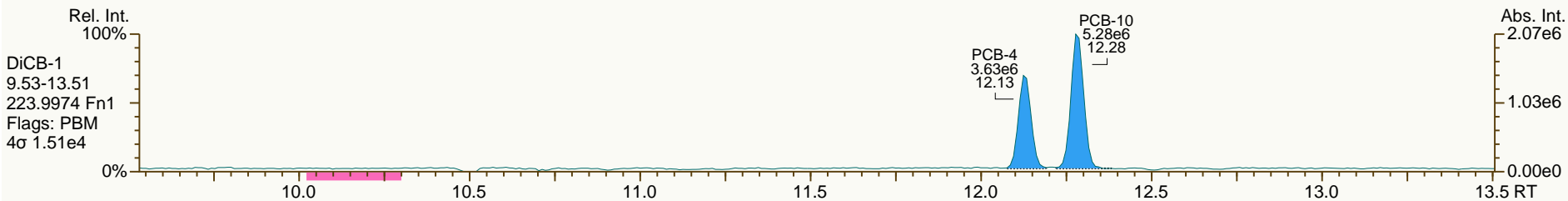
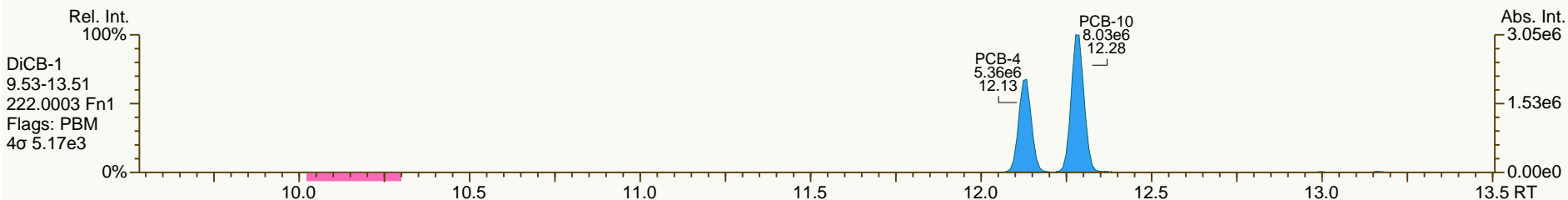
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SGS-AP ID: OPR1_11364_PCB
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

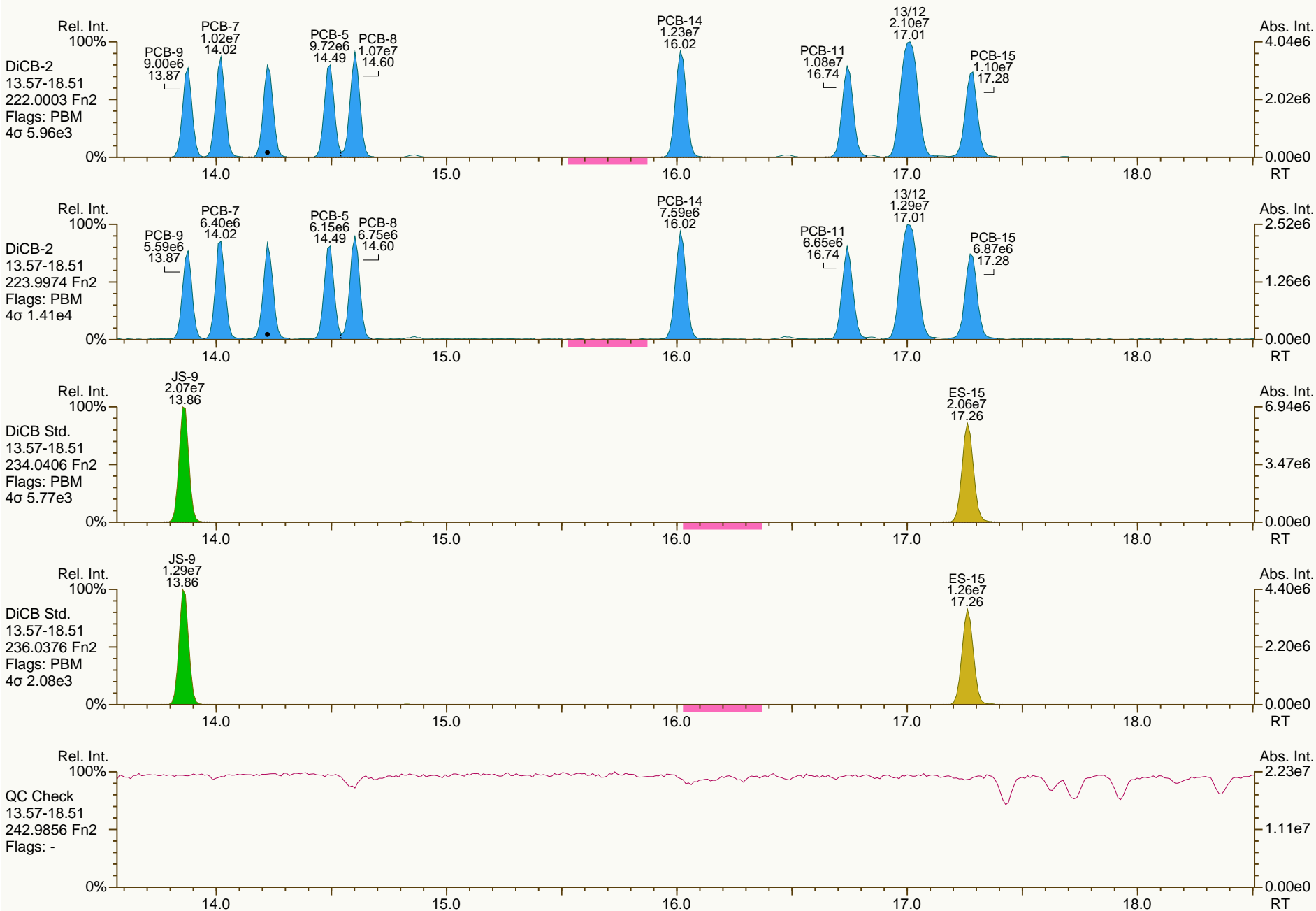
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SGS-AP ID: OPR1_11364_PCB
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

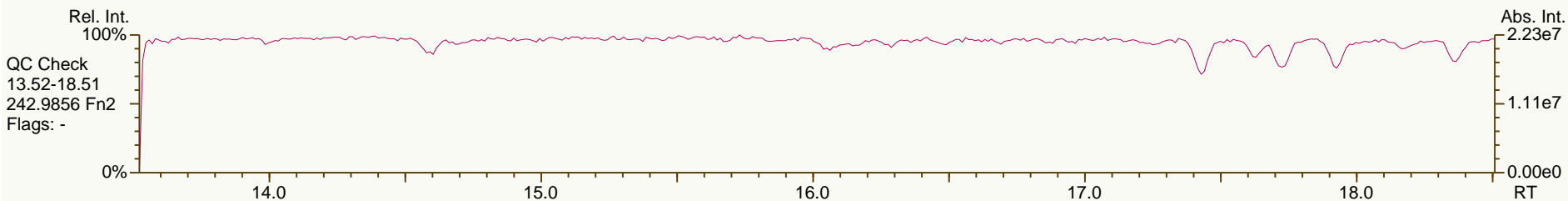
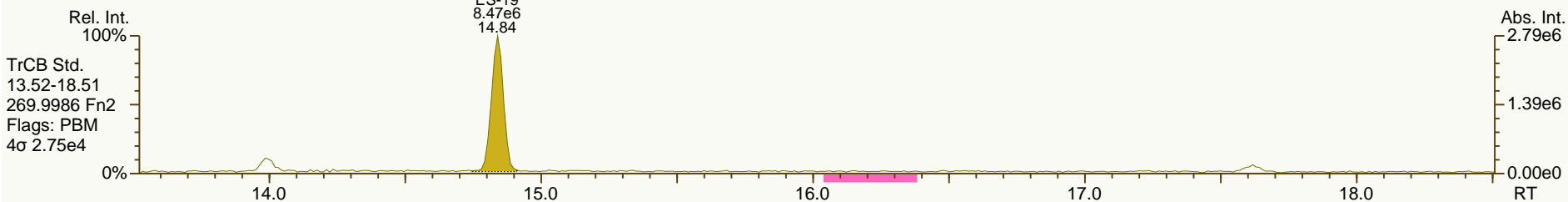
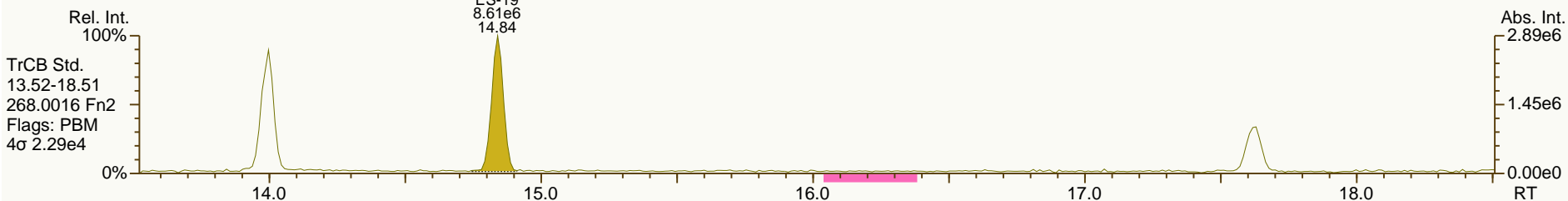
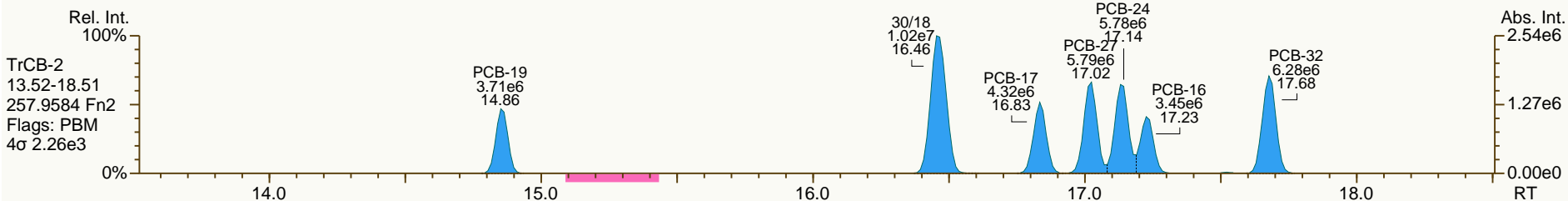
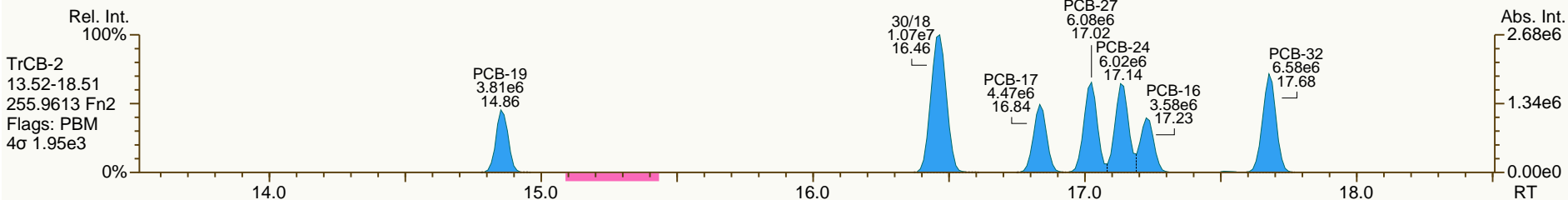
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SGS-AP ID: OPR1_11364_PCB
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

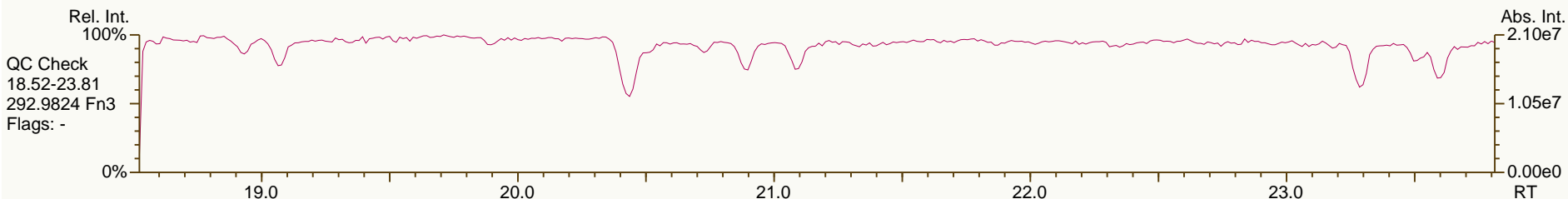
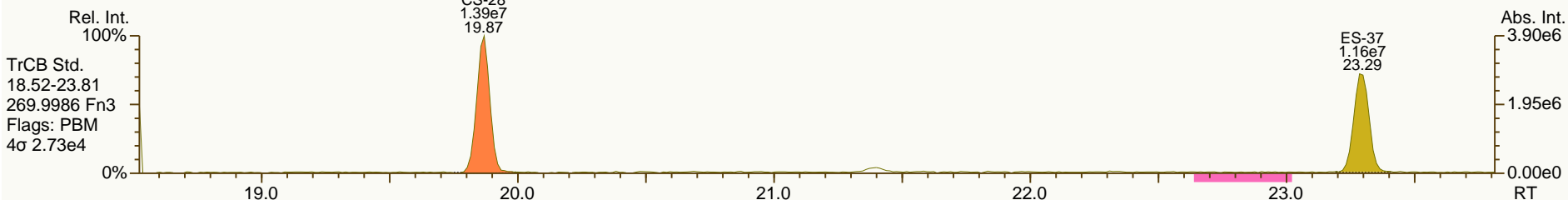
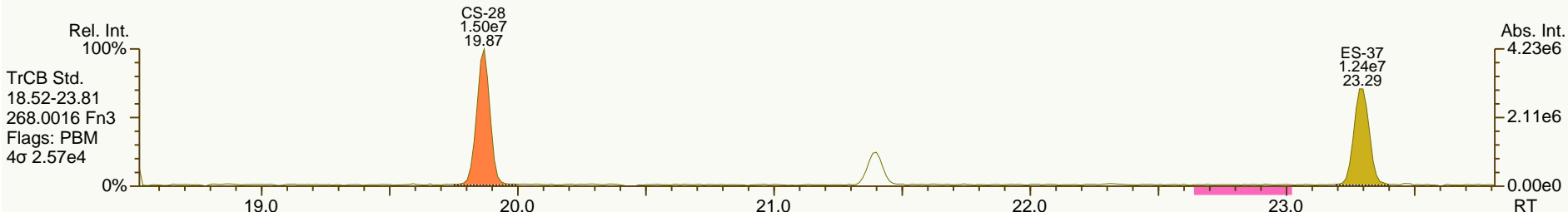
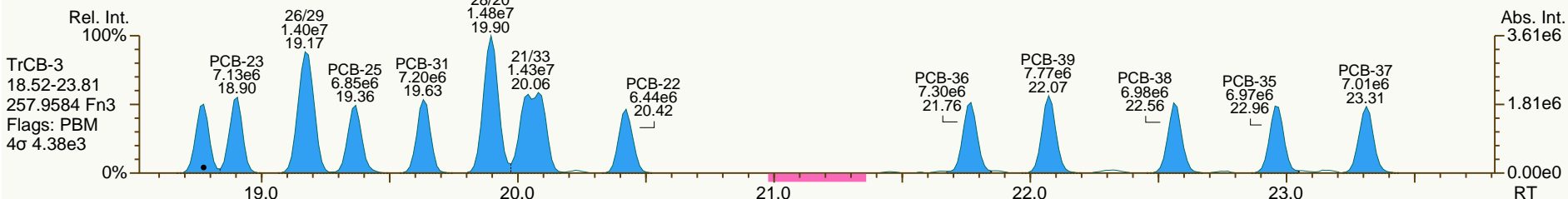
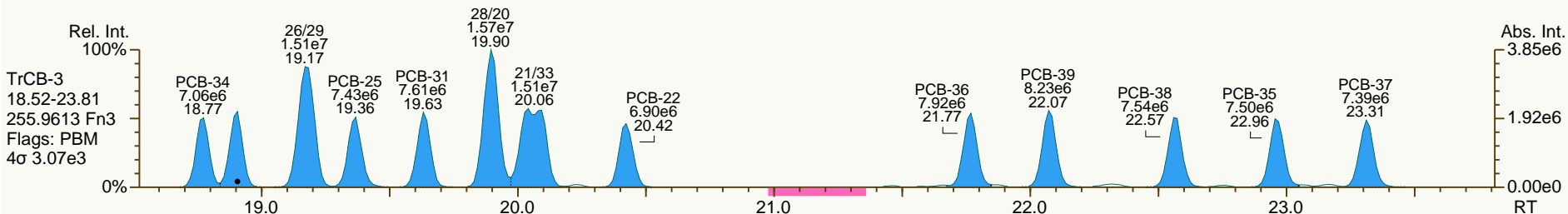
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SGS-AP ID: OPR1_11364_PCB
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

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SGS-AP ID: OPR1_11364_PCB
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

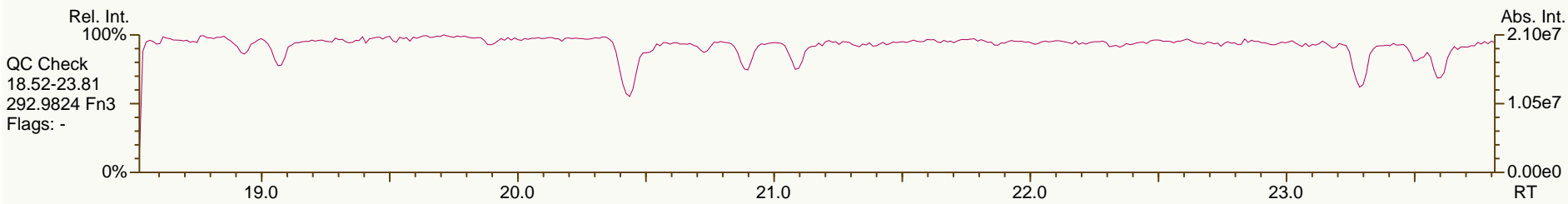
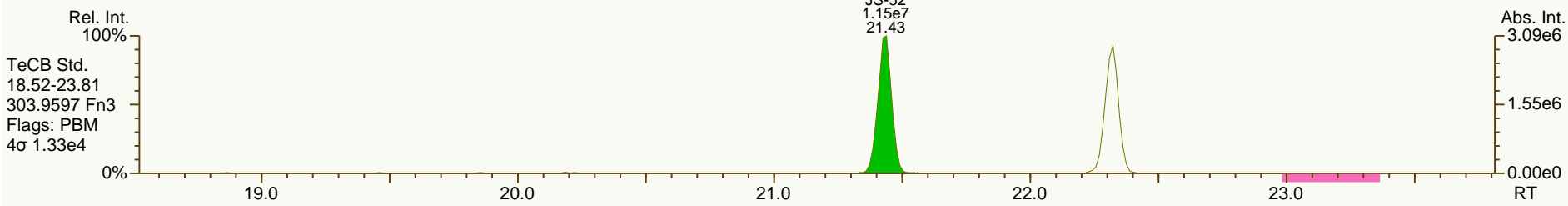
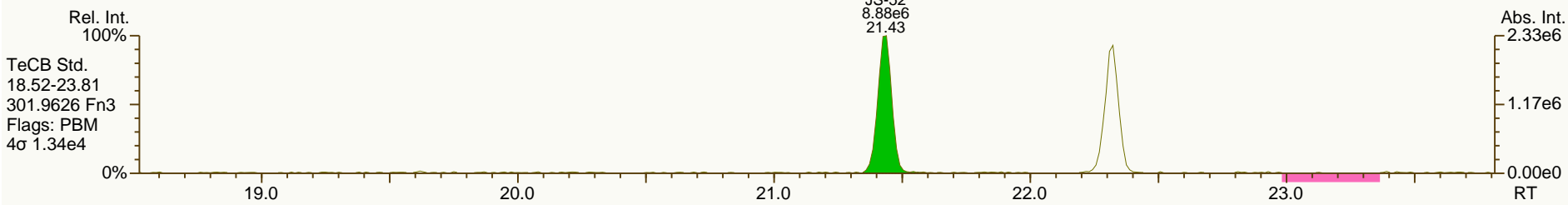
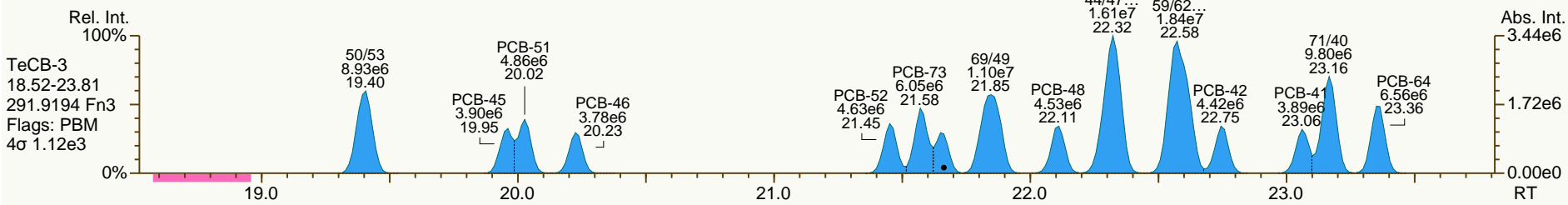
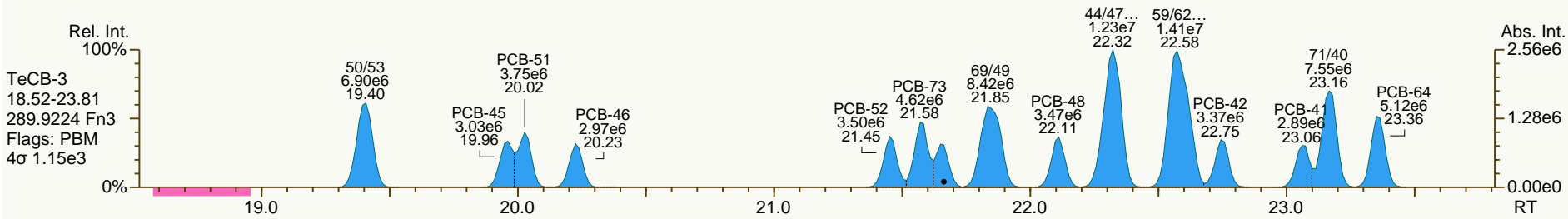
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SGS-AP ID: OPR1_11364_PCB
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

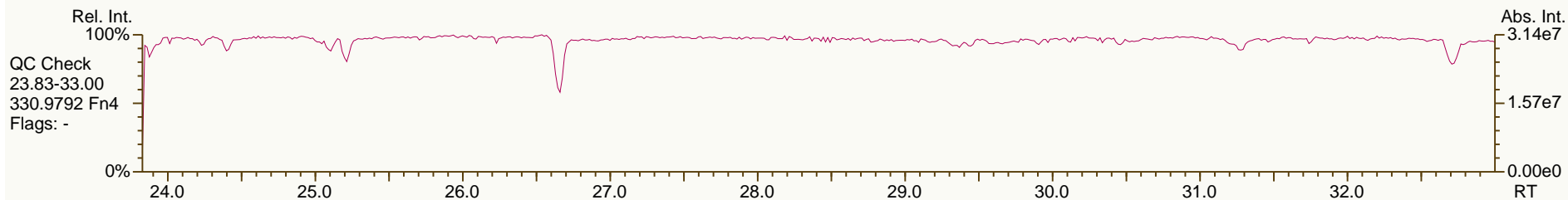
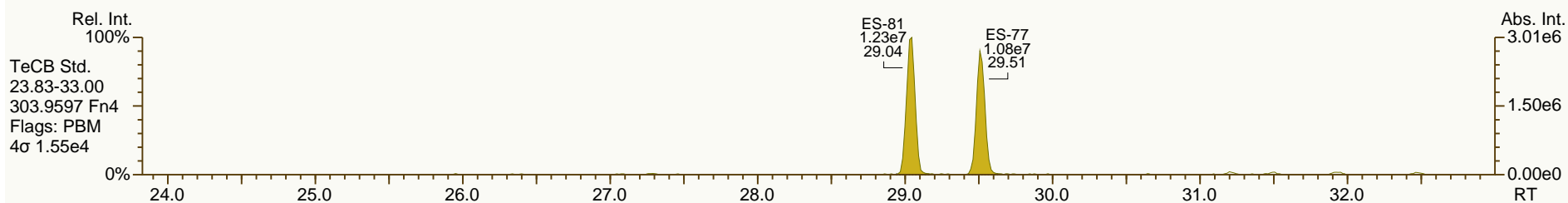
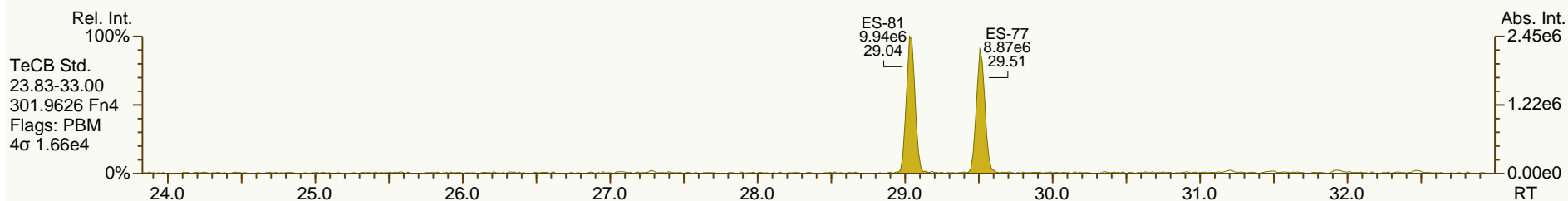
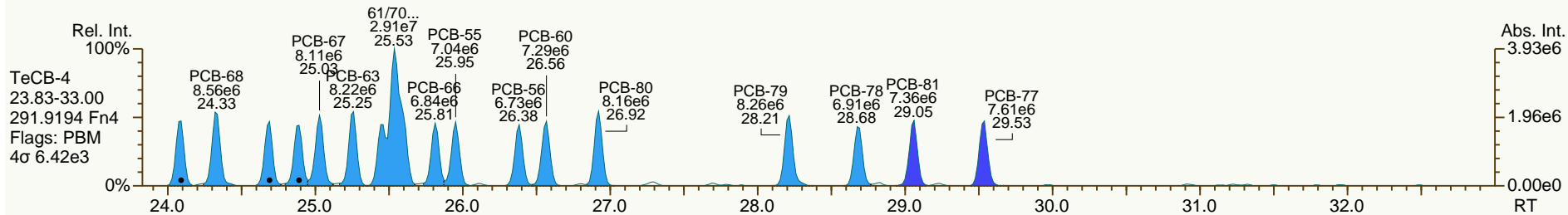
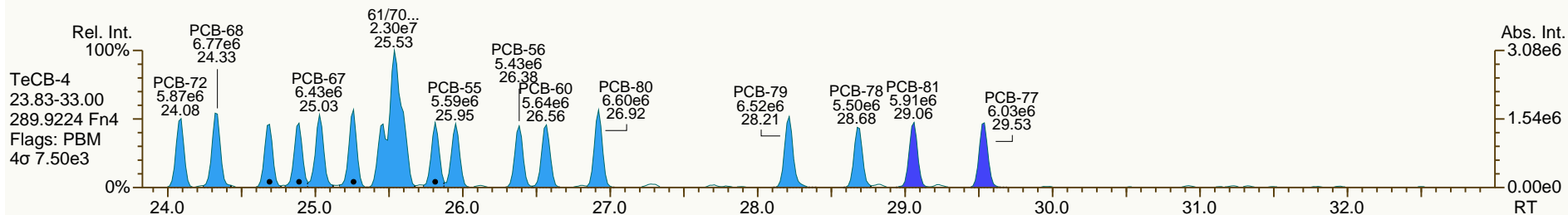
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SGS-AP ID: OPR1_11364_PCB
Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

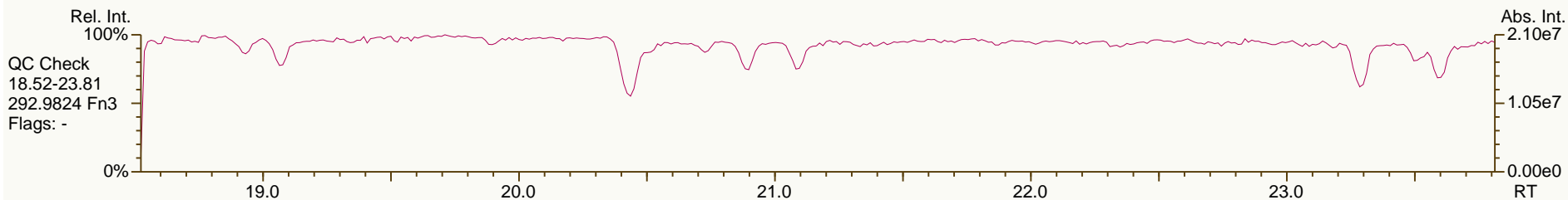
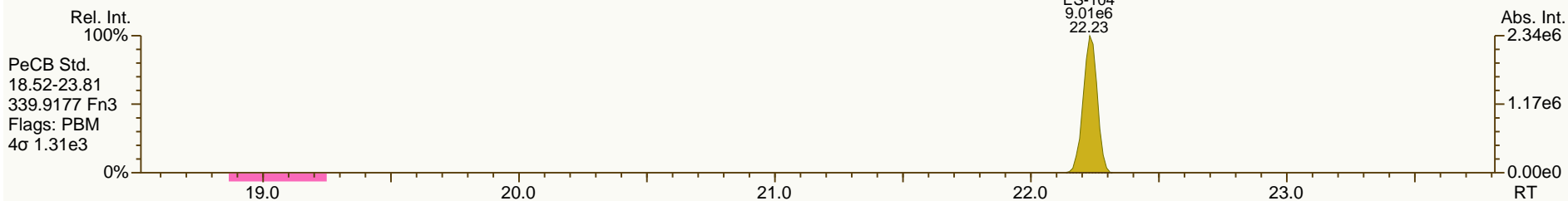
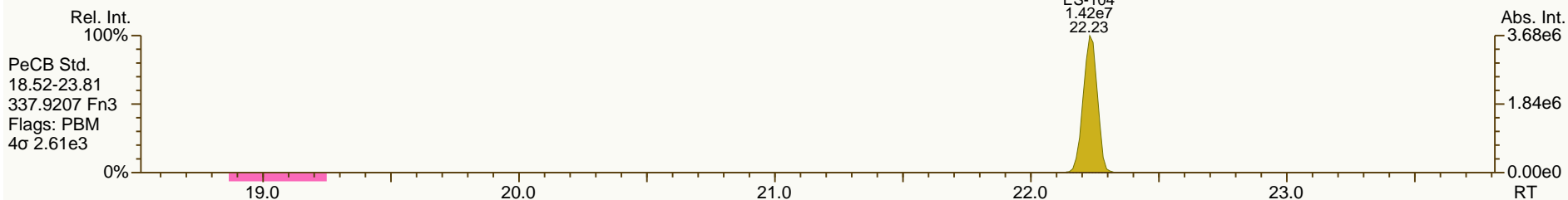
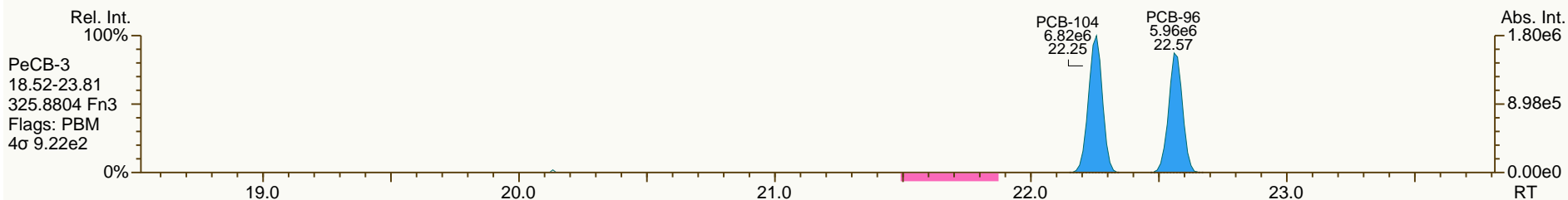
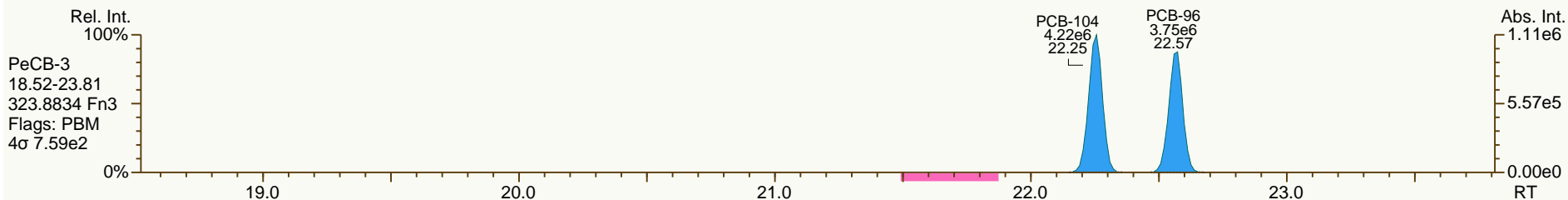
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SGS-AP ID: OPR1_11364_PCB
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

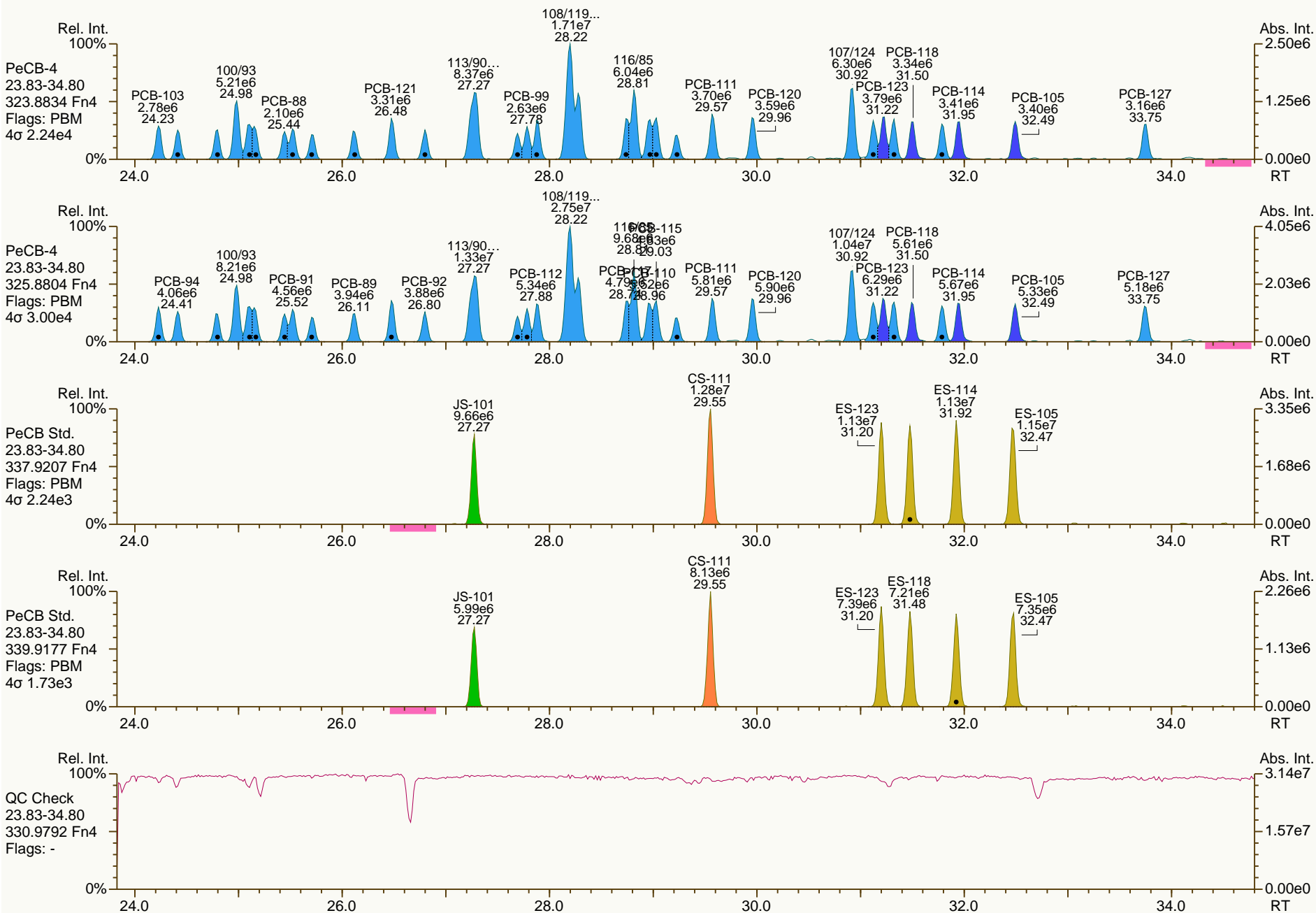
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SGS-AP ID: OPR1_11364_PCB
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VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

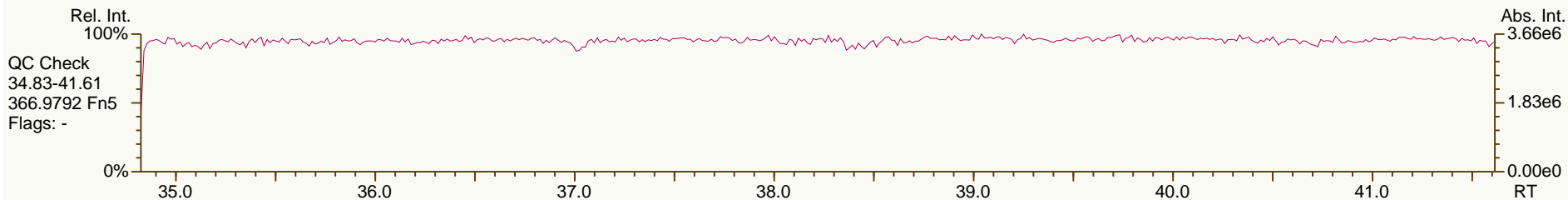
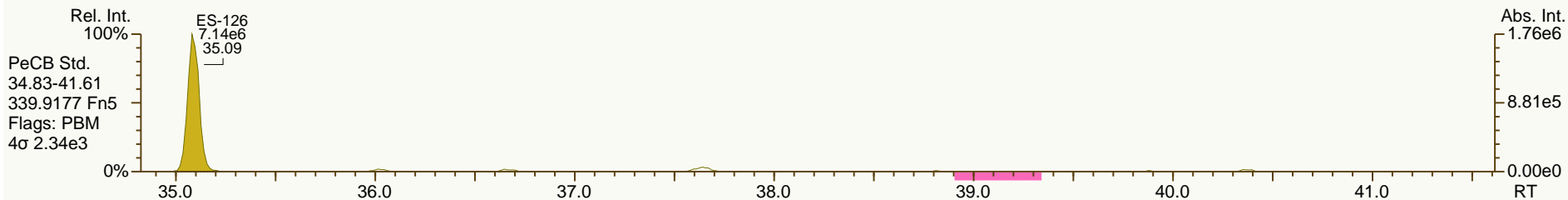
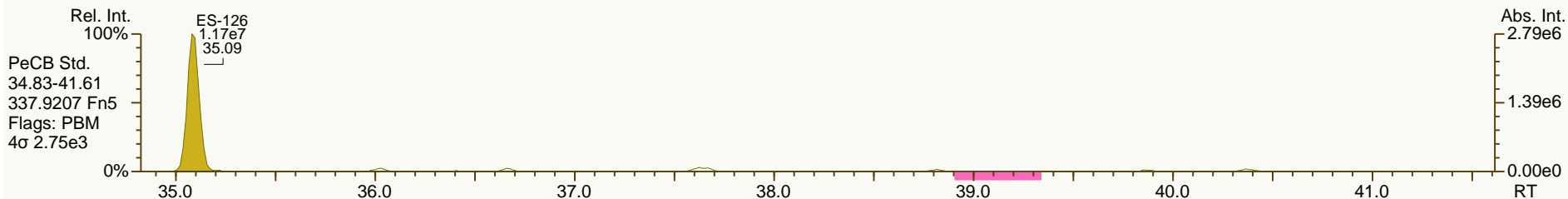
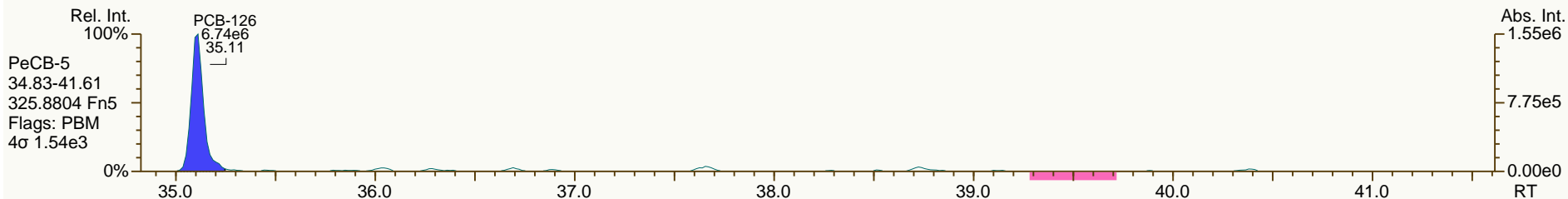
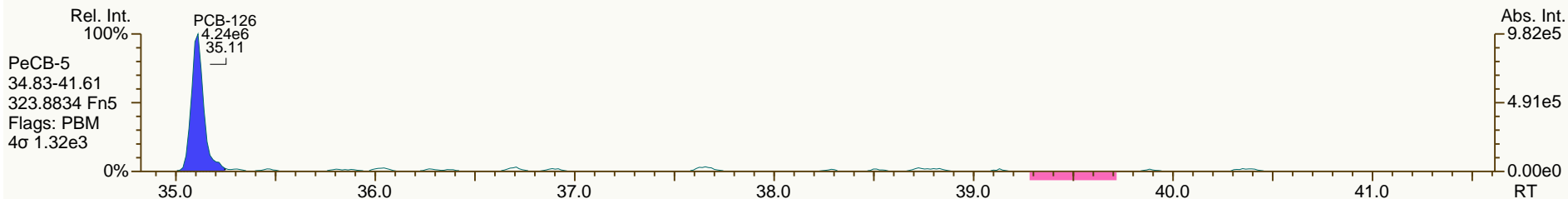
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SGS-AP ID: OPR1_11364_PCB
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

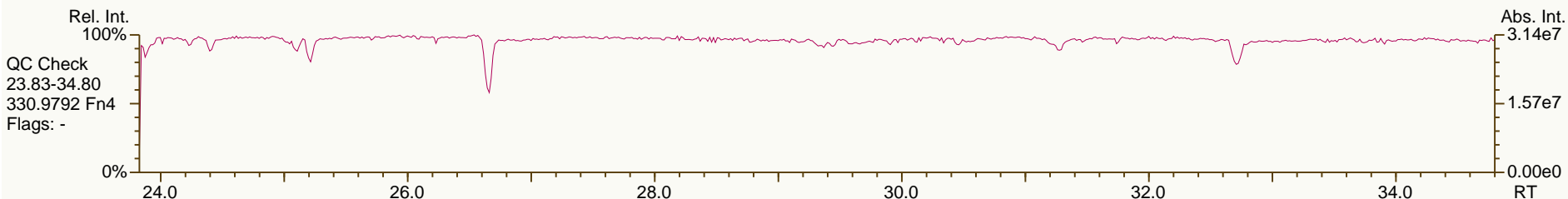
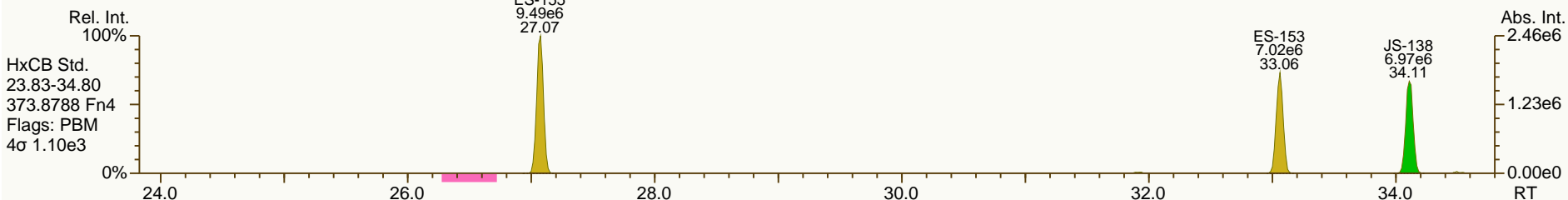
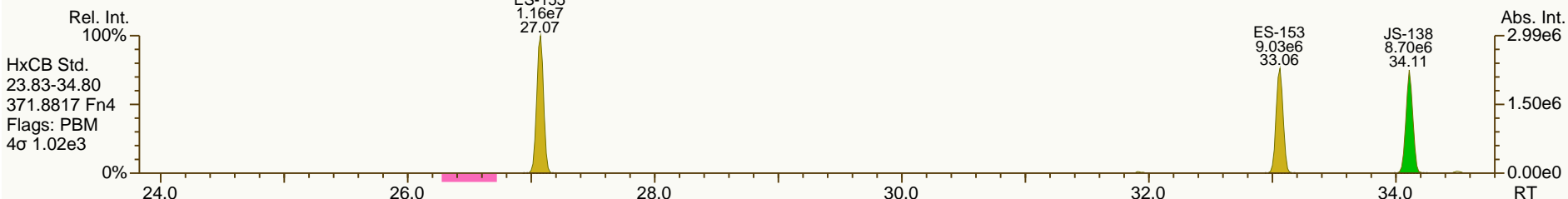
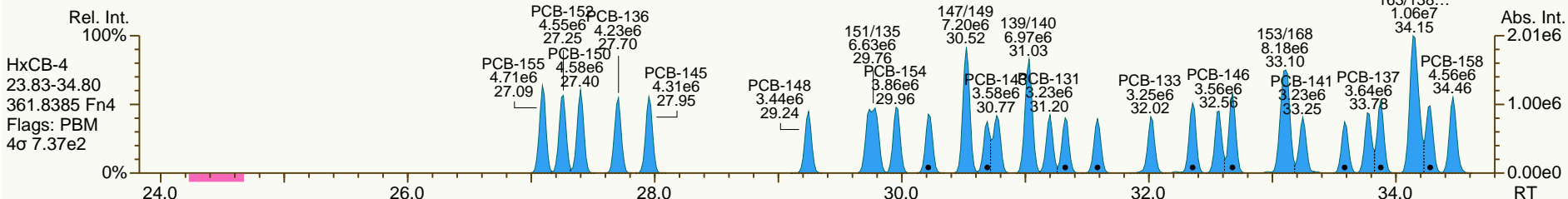
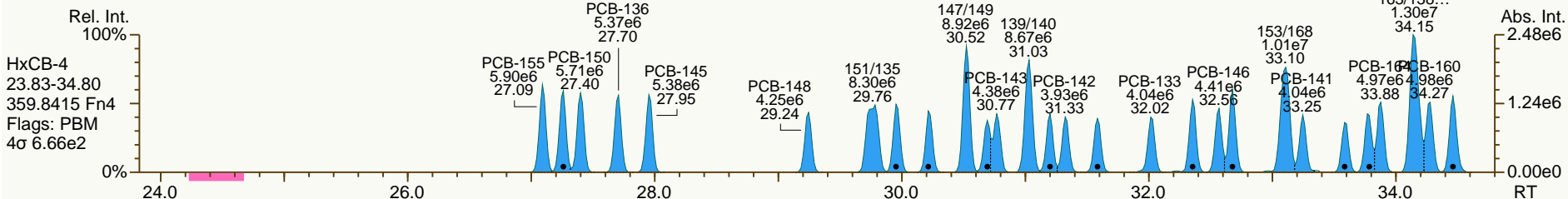
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SGS-AP ID: OPR1_11364_PCB
Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

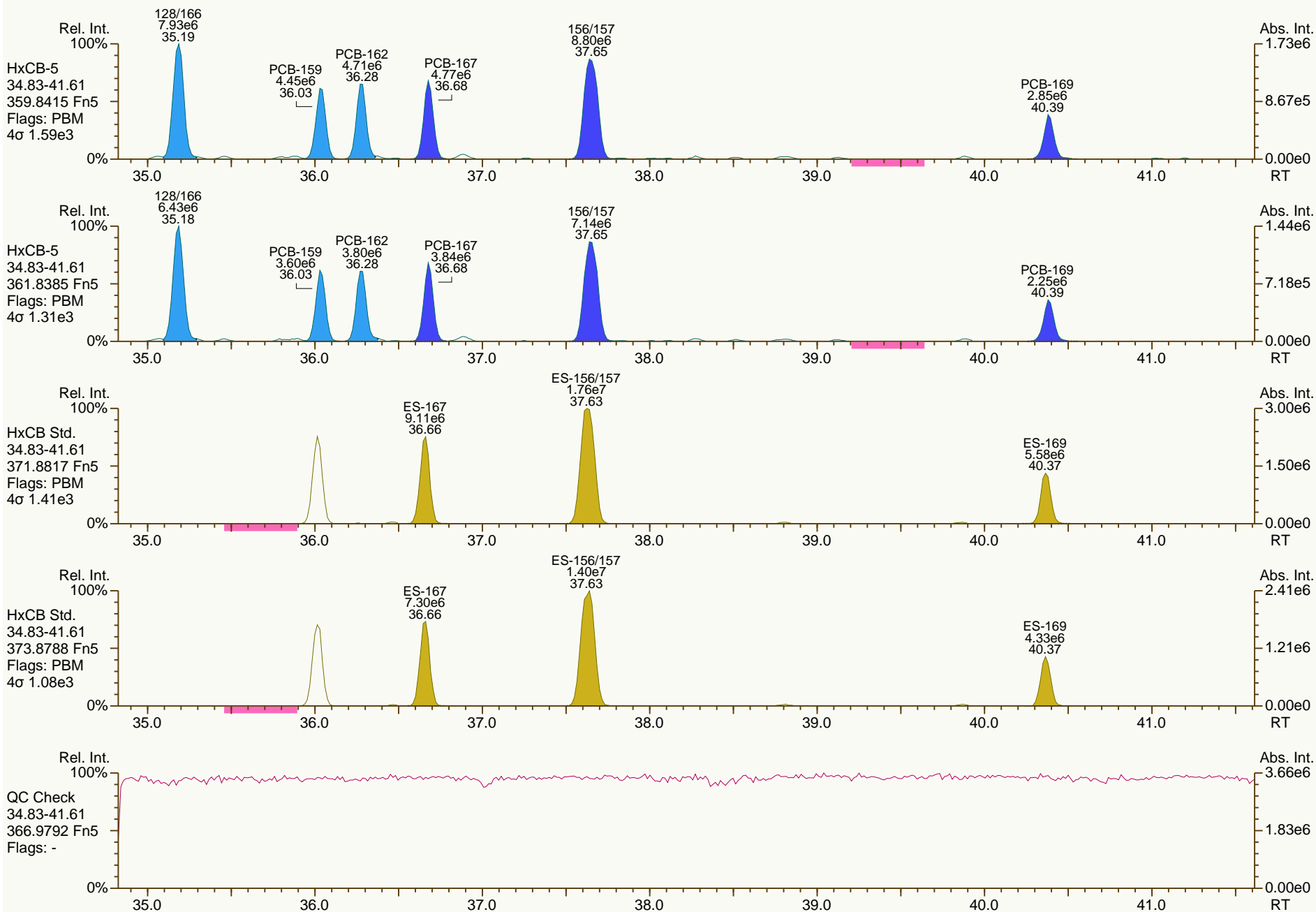
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 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

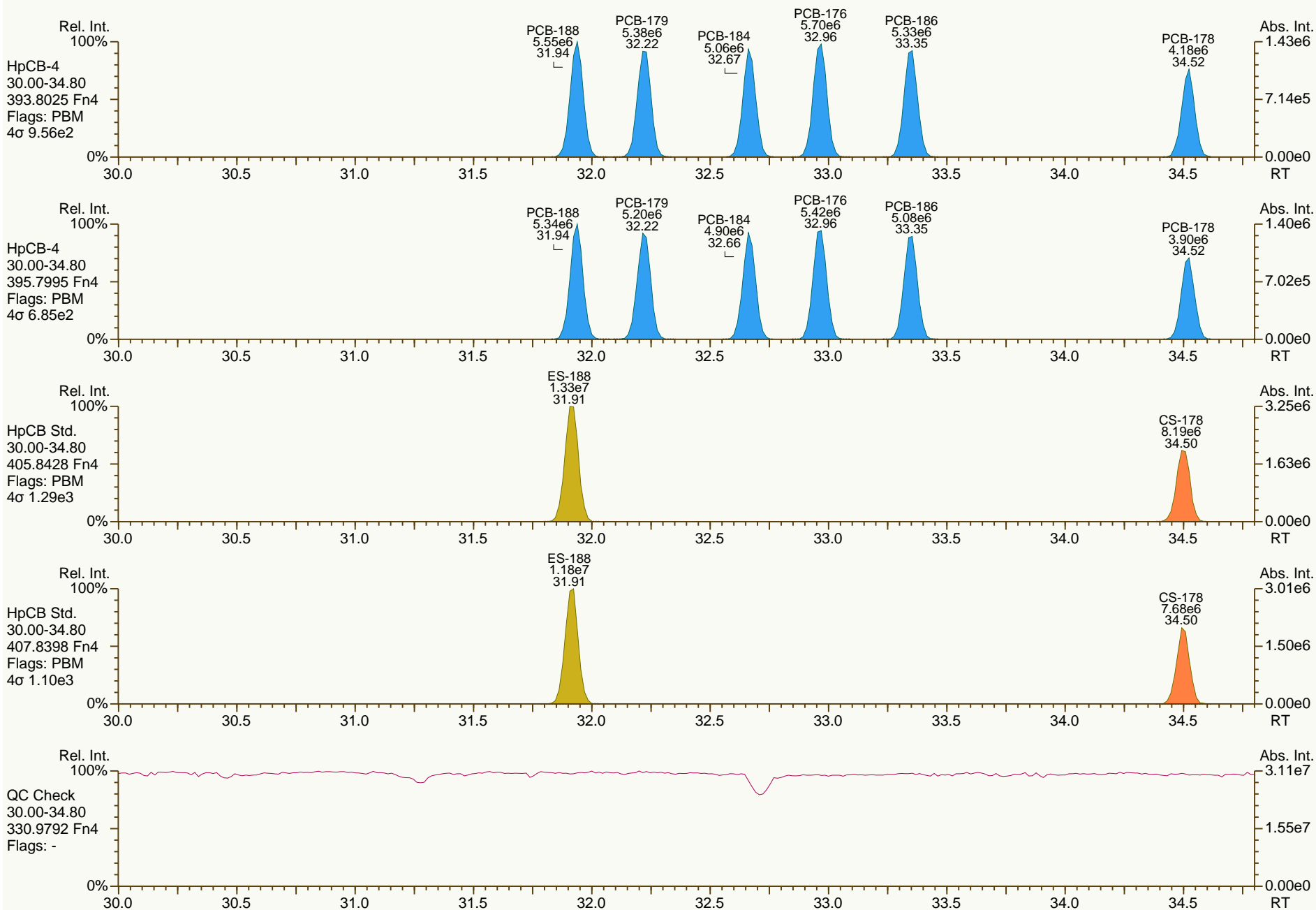
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 User: CTW Datafile: 131002S14



SGS-AP ID: OPR1_11364_PCB
Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

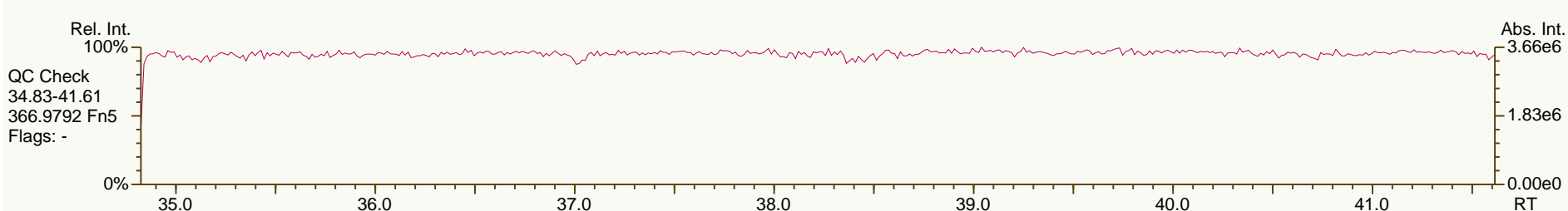
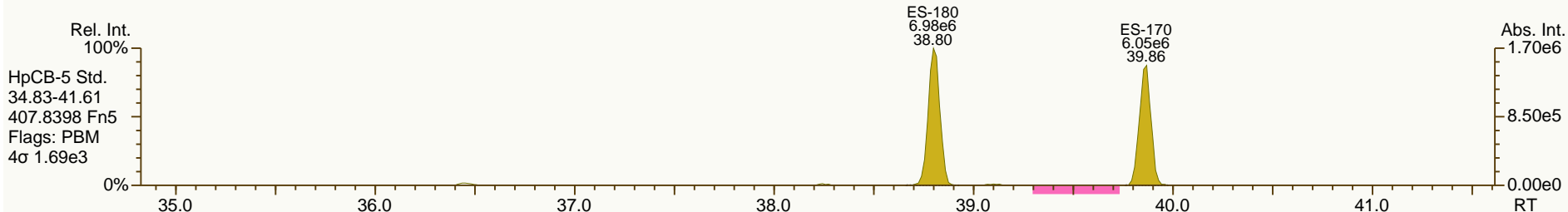
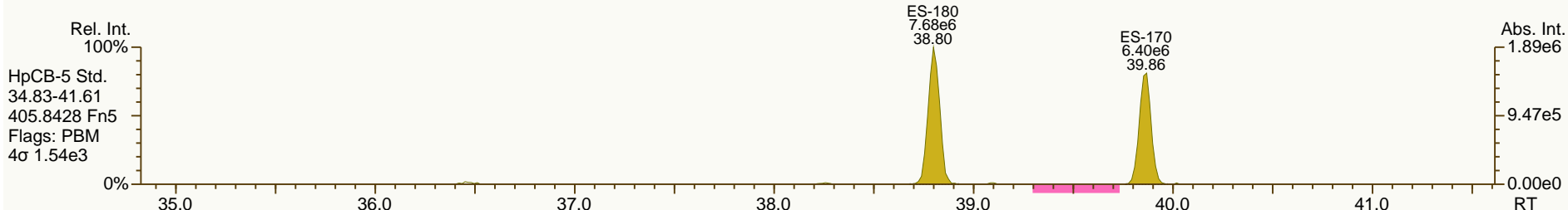
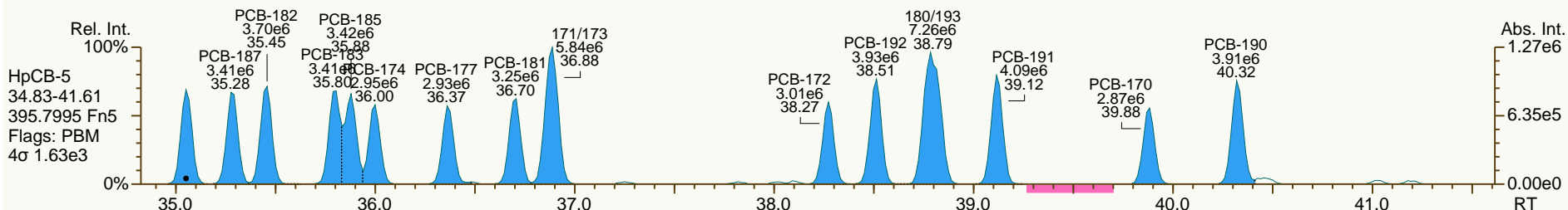
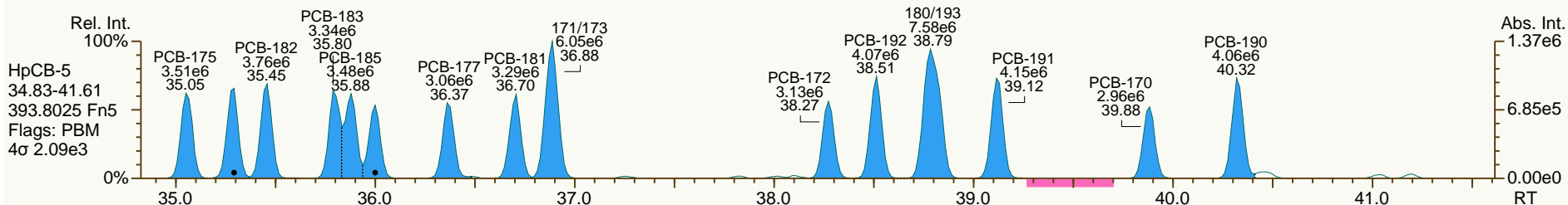
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SGS-AP ID: OPR1_11364_PCB
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

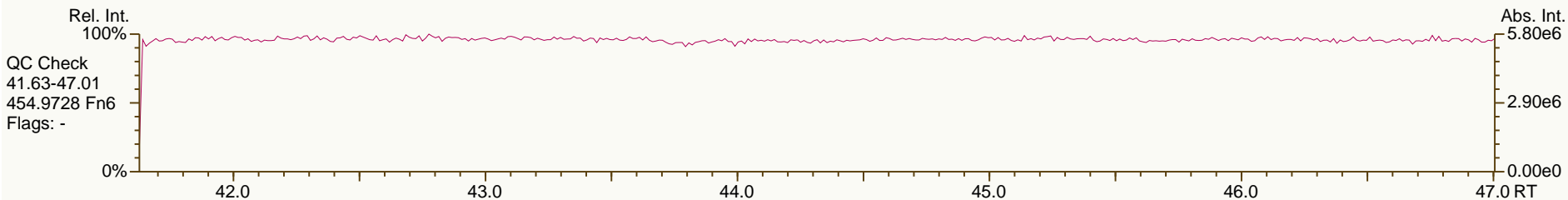
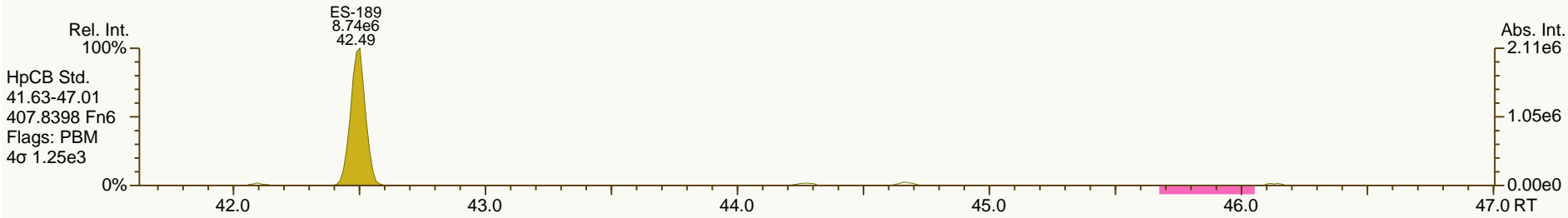
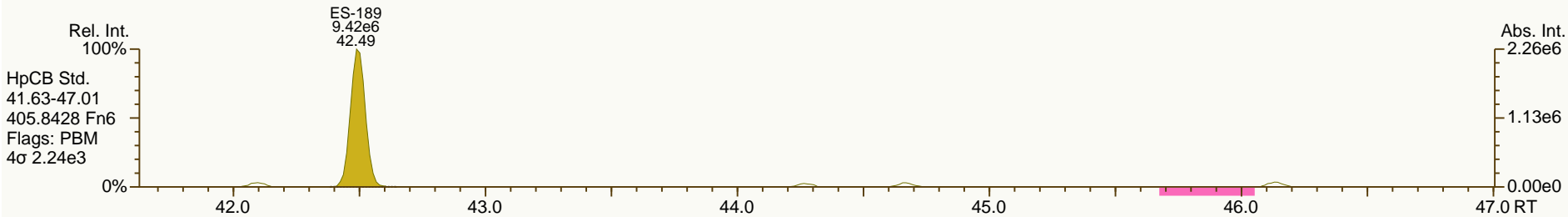
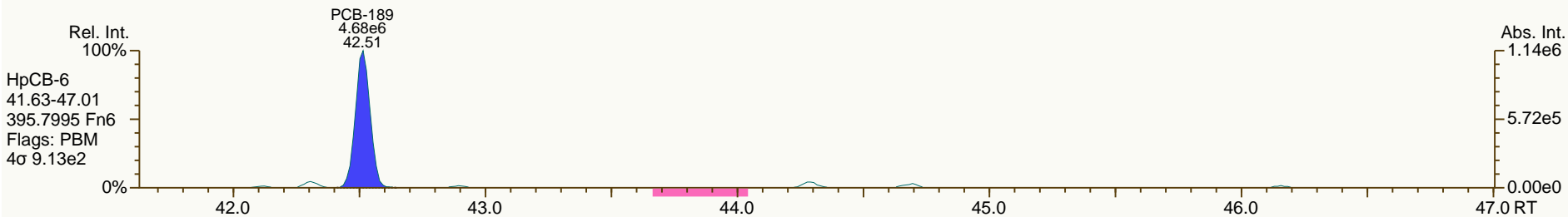
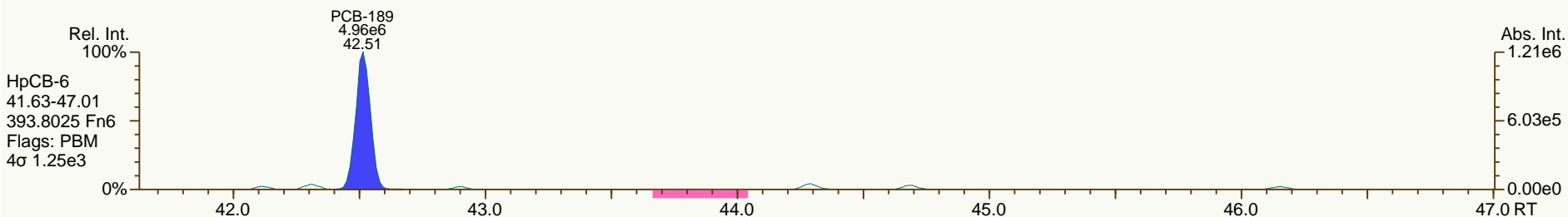
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SGS-AP ID: OPR1_11364_PCB
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

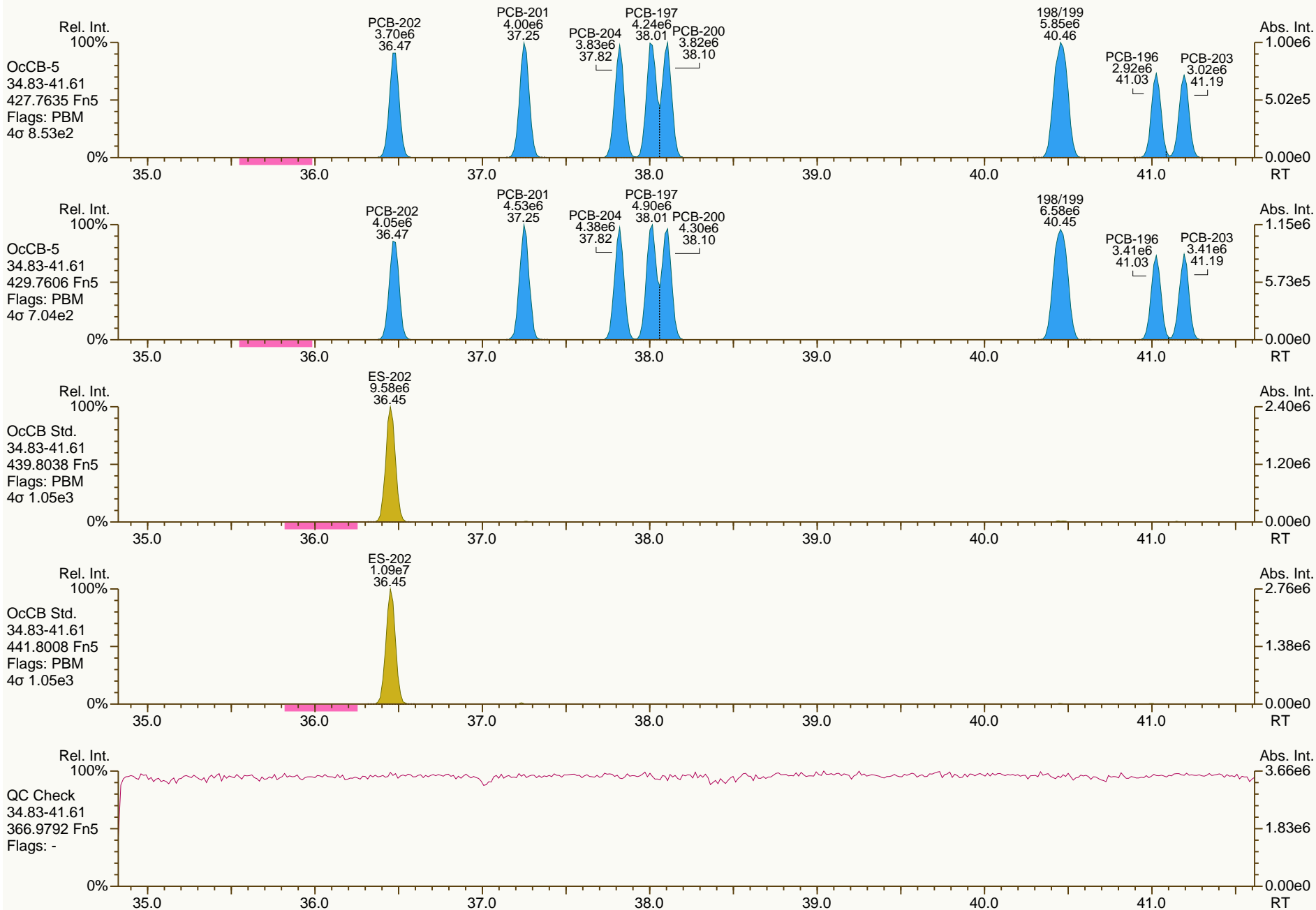
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SGS-AP ID: OPR1_11364_PCB
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

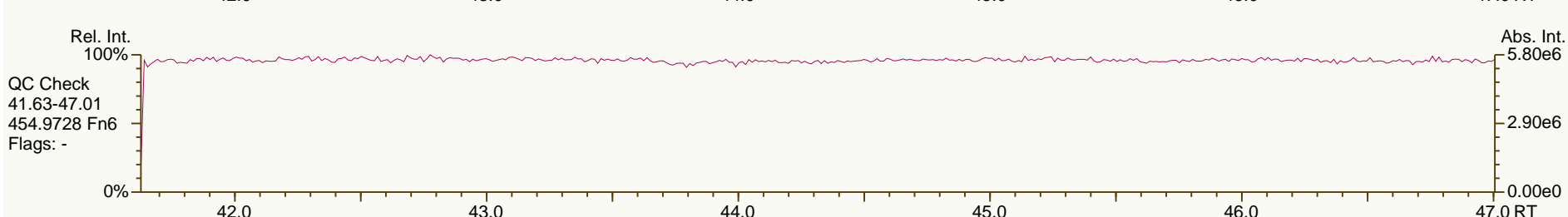
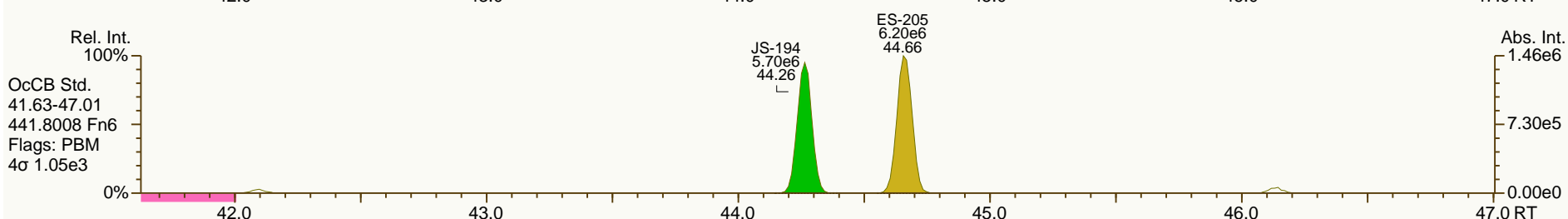
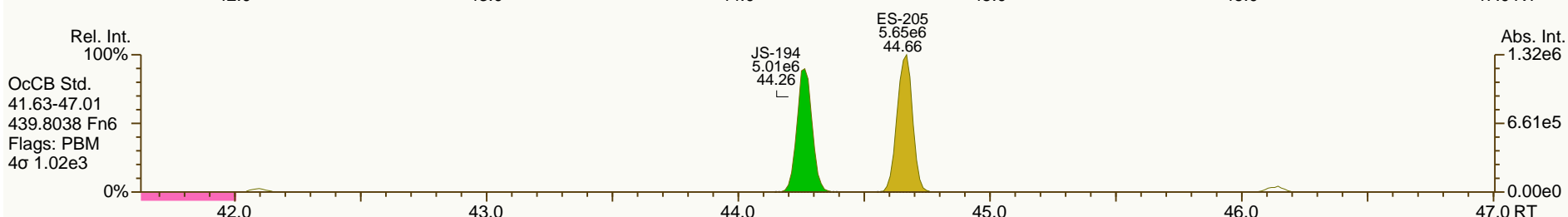
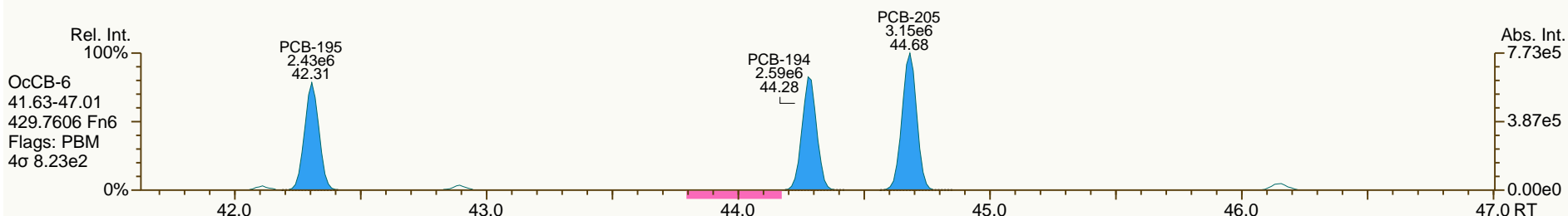
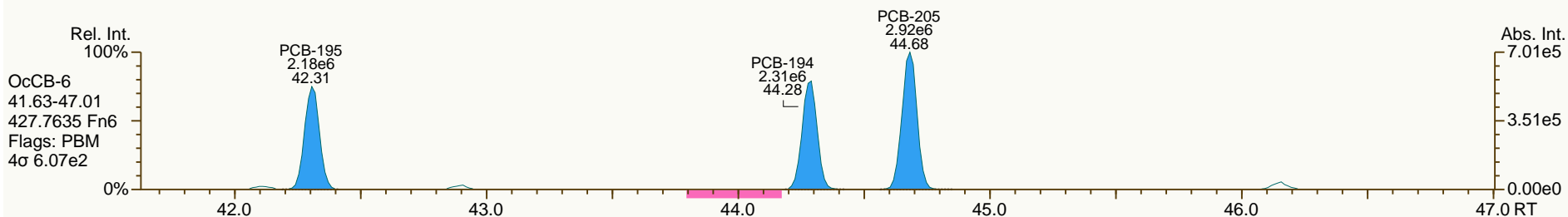
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SGS-AP ID: OPR1_11364_PCB
Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

Acq: 02-Oct-2013 23:13:41
User: CTW Datafile: 131002S14



SGS-AP ID: OPR1_11364_PCB
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

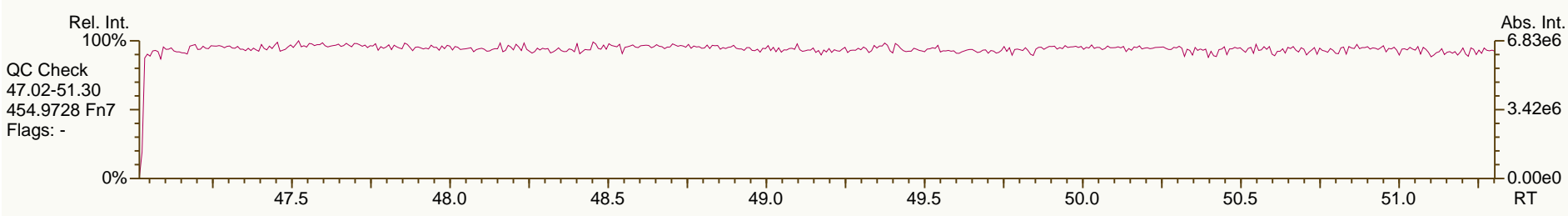
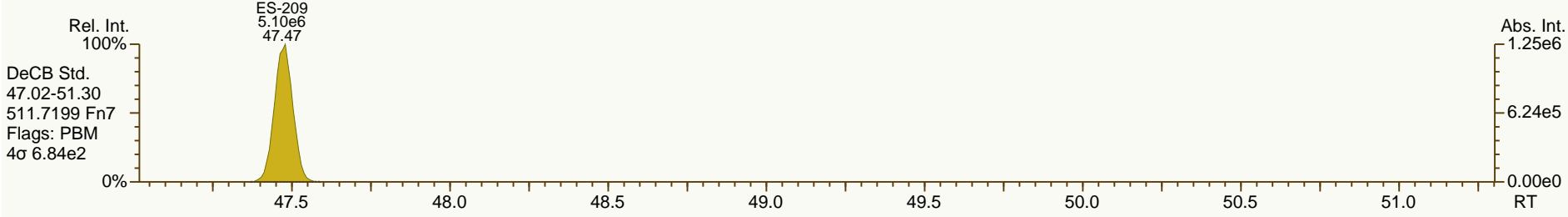
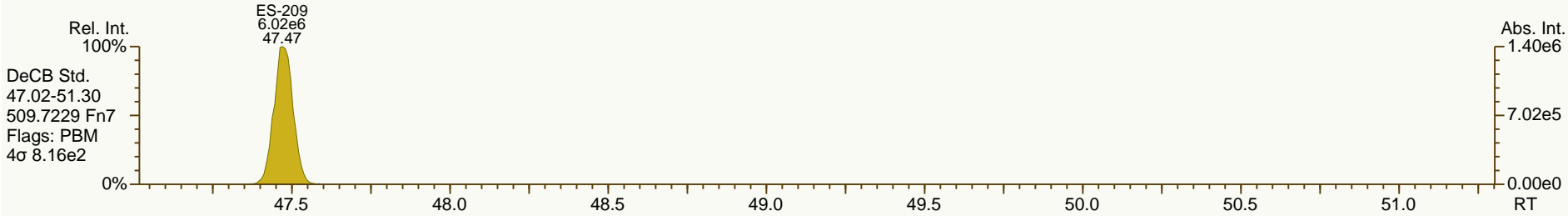
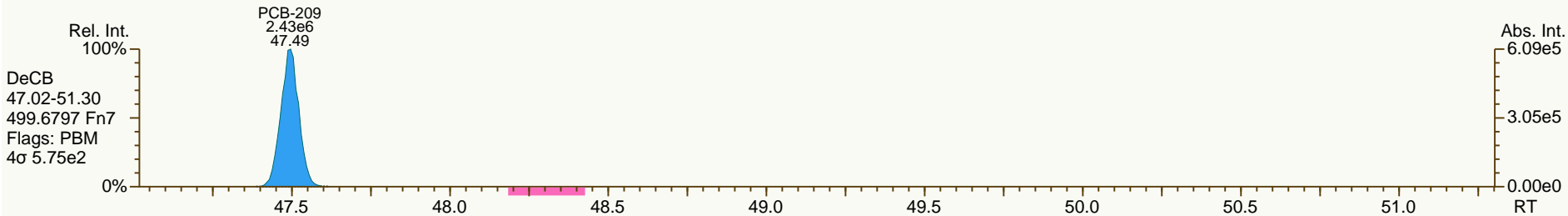
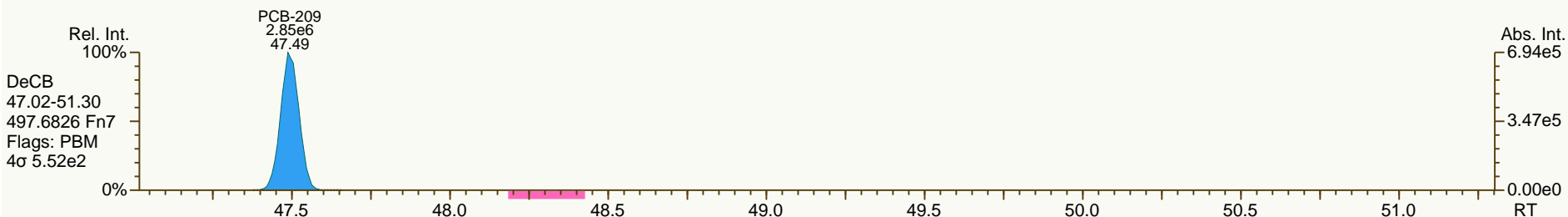
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 User: CTW Datafile: 131002S14



SGS-AP ID: OPR1_11364_PCB
 Instr: AutoSpec-Ultima MM4

Sample ID: 0_11364_OPR001
 VSIR EI+: pcb-2011-08 GC: pcb90_FI Vial: 39

Acq: 02-Oct-2013 23:13:41
 User: CTW Datafile: 131002S14





18 October 2013

Delaney Peterson
ANCHOR QEA, LLC
720 Olive Way, Suite 1900
Seattle, WA 98101

Ph.: 206-903-9996
Email: dpeterson@anchorqea.com

Subject: Certificate of Results

Dear Delaney;

Attached to this narrative are the analytical results you requested on the samples submitted for the determination of polychlorinated dibenzo-*p*-dioxins and -dibenzofurans. The insert below summarizes relevant information pertaining to your project. In particular, QC annotations bring to your attention specific analytical observations and assessments made during the sample handling and data interpretation phases. Results reported relate only to the items tested.

Project Information Summary	When applicable, see QC Annotations for details
Client Project No.	Jeld-Wen former Nord Door site
AP Project #	A5975
Analytical Protocol	Method 1613B
No. Samples Submitted	14 (7 archived)
No. Samples Analyzed	7
No. Laboratory Method Blanks	1
No. OPRs / Batch CS3	1
No. Outstanding Samples	0
Date Received	1-Oct-2013
Condition Received	good
Temperature upon Receipt (C)	5.9
Extraction within Holding Time	yes
Analysis within Holding Time	yes
Data meet QA/QC Requirements	yes
Exceptions	none
Analytical Difficulties	none

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

**QC Annotations:**

Please see Appendix A & B attached for data qualifier/attribute and lab identifier descriptions which may be contained in the project.

Analytical Perspectives Certification IDs:

SOUTH CAROLINA	99054
ARKANSAS	88-0628
NEW JERSEY-NELAP SECONDARY	NC005
FLORIDA-NELAP PRIMARY	E87608
LOUISIANA	4024
NORTH CAROLINA	37783
WASHINGTON	C2027
NEW YORK	11988
VIRGINIA	460180
MINNESOTA	037-999-448
OREGON	pending
TEXAS	T104704484-10-1
PENNSYLVANIA-NELAP SECONDARY	68-01849

SGS Analytical Perspectives remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact us.

The management and staff of SGS Analytical Perspectives welcomes customer feedback, both positive and negative, as we continually improve our services. Please visit our web site at www.ultratrace.com and click on the 'Leave Your Feedback Here!' link on the Home Page. Thank you for choosing SGS Analytical Perspectives.

Sincerely,

Todd Vilen
Project Manager



APPENDIX A: DATA QUALIFIERS / DATA ATTRIBUTES	
>	Indicates high recoveries. Shown with the numeric value at the top of the range. ¹
B	The analyte was found in the method blank, at a concentration that was at least 10% of the concentration in the sample.
C	Two or more congeners co-elute. In EDDs C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group are shown with the number of the lowest IUPAC co-eluter.
E	The reported concentration exceeds the calibration range (upper point of the calibration curve).
EMPC	Represents an Estimated Maximum Possible Concentration. EMPC's arise in cases where the signal/noise ratio is not sufficient for peak identification (the determined ion-abundance ratio is outside the allowed theoretical range), or where there is a co-eluting interference.
ETH	Indicates the presence of a diphenyl ether that appears to interfere with the quantitation of a furan. The reported concentration is the maximum.
H/h	If the standard recovery is below the method or SOP specified value "H" is assigned. If the obtained value is less than half the specified value "h" is assigned. ¹
J	Indicates that an analyte has a concentration below the reporting limit (lowest point of the calibration curve).
ND	Indicates a non-detect.
NR	Indicates a value that is not reportable.
PR	Due to interference, the associated congener is poorly resolved.
QI	Indicates the presence of a quantitative interference.
SI	Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates. ¹
U	The analyte was not detected. The estimated detection limit (EDL) may be reported for this analyte.
V	The labeled standard recovery was found to be outside of the method control limits.
X	Indicates results reported from reinjection, refractionation, or repeat analyses.
APPENDIX B: LAB ID IDENTIFIERS	
AR	Indicates use of the archived portion of the sample extract.
CU	Indicates a sample that required additional clean-up prior to MS injection/processing.
D	Indicates a dilution of the sample extract. The number that follows the "D" indicates the dilution factor.
DE	Indicates a dilution performed with the addition of ES (extraction standard) solution.
DUP	Designation for a duplicate sample.
MS	Designation for a matrix spike.
MSD	Designation for a matrix spike duplicate.
RJ	Indicates a reinjection of the sample extract.
S	Indicates a sample split. The number that follows the "S" indicates the split factor.

¹Denotes data qualifiers/attributes whose use will be phased out over time

A5975 - TEQ

Project ID: Jeld-Wen Former Nord Door site

Sample Summary Part 1 (dry weight)		SGS		ANALYTICAL PERSPECTIVES		Method 1613B		
Analyte	Method Blank A5975	JW-SC401- A-130928	JW-SC401- B-130928	JW-SC401- C-130928	JW-SC402- A-130928	JW-SC402- B-130928	JW-SC402- C-130928	JW-SC402- D-130928
	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g
2,3,7,8-TCDD	(0.0903)	0.215	0.116	(0.101)	0.257	(0.106)	(0.106)	(0.122)
1,2,3,7,8-PeCDD	(0.0774)	0.5	0.22	(0.0947)	0.709	(0.135)	(0.135)	(0.126)
1,2,3,4,7,8-HxCDD	(0.0702)	0.946	0.304	(0.102)	1.38	(0.148)	(0.12)	(0.135)
1,2,3,6,7,8-HxCDD	(0.0755)	3.51	0.467	(0.106)	5.18	(0.149)	(0.124)	(0.136)
1,2,3,7,8,9-HxCDD	[0.077]	1.57	0.402	0.142	2.68	(0.156)	(0.118)	(0.129)
1,2,3,4,6,7,8-HpCDD	0.58	39.9	4.54	0.859	85.3	2.04	1.61	(0.194)
OCDD	2.37	233	12.9	9.19	602	12.7	11.5	1.64
2,3,7,8-TCDF	(0.0509)	1.36	0.928	[0.297]	1.98	0.178	0.117	(0.0798)
1,2,3,7,8-PeCDF	(0.0543)	0.286	0.318	[0.0635]	0.438	(0.0687)	(0.0852)	(0.0774)
2,3,4,7,8-PeCDF	(0.0533)	0.632	0.517	0.108	0.991	(0.0668)	(0.0841)	(0.0749)
1,2,3,4,7,8-HxCDF	(0.0461)	[0.413]	[0.127]	(0.0785)	0.975	(0.0742)	(0.0587)	(0.0937)
1,2,3,6,7,8-HxCDF	(0.0467)	0.419	[0.127]	(0.0747)	0.775	(0.0731)	(0.0599)	(0.0907)
2,3,4,6,7,8-HxCDF	(0.0471)	0.685	0.203	(0.0797)	1.25	(0.0787)	(0.0653)	(0.0888)
1,2,3,7,8,9-HxCDF	(0.0561)	(0.115)	(0.0703)	(0.0943)	(0.085)	(0.0901)	(0.0741)	(0.106)
1,2,3,4,6,7,8-HpCDF	[0.0929]	7.32	0.239	(0.0938)	17.7	0.626	0.609	(0.126)
1,2,3,4,7,8,9-HpCDF	(0.0807)	0.381	(0.0967)	(0.102)	1.02	(0.136)	(0.112)	(0.13)
OCDF	0.295	9.23	[0.174]	(0.161)	44.3	1.23	1.56	(0.174)
WHO-2005 TEQ (ND=0; EMPC=0)	0.0066	2.31	0.782	0.058	3.93	0.0486	0.0378	0.000492
WHO-2005 TEQ (ND=0; EMPC=EMPC)	0.0152	2.35	0.808	0.0896	3.93	0.0486	0.0378	0.000492
WHO-2005 TEQ (ND=DL/2; EMPC=0)	0.123	2.32	0.793	0.188	3.94	0.219	0.203	0.182
WHO-2005 TEQ (ND=DL/2; EMPC=EMPC)	0.128	2.36	0.812	0.215	3.94	0.219	0.203	0.182
WHO-2005 TEQ (ND=DL; EMPC=EMPC)	0.241	2.36	0.816	0.341	3.94	0.389	0.369	0.364
Checkcode	348-705-QDP	639-644-YLN	154-115-VCR	356-778-NZZ	123-973-ZGB	089-341-FQT	308-442-QYD	915-861-FHL
Lab ID	MB1_11402_DF_SDSRJ	A5975_11402_DF_001RJ	A5975_11402_DF_002RJ	A5975_11402_DF_003RJ	A5975_11402_DF_008RJ	A5975_11402_DF_009RJ	A5975_11402_DF_010RJ	A5975_11402_DF_011RJ

() = DL

[] = EMPC

A5975 - Totals

Project ID: Jeld-Wen Former Nord Door site

Analyte	Method Blank A5975	JW-SC401-A-130928	JW-SC401-B-130928	JW-SC401-C-130928	JW-SC402-A-130928	JW-SC402-B-130928	JW-SC402-C-130928	JW-SC402-D-130928
	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g
Totals								
TCDDs	0	18.1	17.1	1.87	17.5	0.322	0.421	0.313
PeCDDs	0	15.5	12.7	0.931	17.6	0	0	0
HxCDDs	0	43.6	19.2	1.64	54.6	0	0.323	0.183
HpCDDs	0.982	88.1	7.79	2.14	199	4.29	3.57	0.351
OCDD	2.37	233	12.9	9.19	602	12.7	11.5	1.64
TCDFs	0	13.4	15.8	1.72	18.1	0.178	0.484	0
PeCDFs	0	7.18	5.03	0.408	11.6	0.302	0.407	0
HxCDFs	0	12.1	1.19	0.0859	26.4	0.297	0.406	0
HpCDFs	0	19.3	0.239	0	58.3	1.67	1.6	0
OCDF	0.295	9.23	0	0	44.3	1.23	1.56	0
Total PCDD/Fs (ND=0; EMPC=0)	3.65	459	91.8	18.0	1050	21.0	20.3	2.49
Total PCDD/Fs (ND=0; EMPC=EMPC)	4.15	462	93.9	19.2	1050	22.4	21.3	2.49
Total PCDD/Fs (2378-X ND=DL; EMPC=EMPC)	4.90	462	94.1	20.3	1050	23.6	22.5	4.37
Total 2378s (ND=0; EMPC=0)	3.25	300	21.1	10.3	767	16.8	15.4	1.64
Total 2378s (ND=0.5; EMPC=0)	3.69	300	21.4	10.9	767	17.4	16.0	2.58
Total 2378s (ND=1; EMPC=0)	4.14	300	21.6	11.5	767	18.0	16.5	3.52
Total 2378s (ND=0; EMPC=1)	3.42	300	21.6	10.7	767	16.8	15.4	1.64
Total 2378s (ND=0.5; EMPC=1)	3.79	300	21.7	11.2	767	17.4	16.0	2.58
Total 2378s (ND=1; EMPC=1)	4.17	300	21.7	11.7	767	18.0	16.5	3.52
Checkcode	348-705-QDP	639-644-YLN	154-115-VCR	356-778-NZZ	123-973-ZGB	089-341-FQT	308-442-QYD	915-861-FHL
Lab ID	MB1_11402_DF_SDSRJ	A5975_11402_DF_001RJ	A5975_11402_DF_002RJ	A5975_11402_DF_003RJ	A5975_11402_DF_008RJ	A5975_11402_DF_009RJ	A5975_11402_DF_010RJ	A5975_11402_DF_011RJ

() = DL

[] = EMPC

A5975 - Others

Project ID: Jeld-Wen Former Nord Door site



Sample Summary Part 3 (dry weight)		SGS		ANALYTICAL PERSPECTIVES		Method 1613B		
Analyte	Method Blank A5975 pg/g	JW-SC401- A-130928 pg/g	JW-SC401- B-130928 pg/g	JW-SC401- C-130928 pg/g	JW-SC402- A-130928 pg/g	JW-SC402- B-130928 pg/g	JW-SC402- C-130928 pg/g	JW-SC402- D-130928 pg/g
Other PCDD/Fs (ND=0, EMPC=0)								
Other TCDD	0	17.9	16.9	1.87	17.2	0.322	0.421	0.313
Other PeCDD	0	15	12.4	0.931	16.9	0	0	0
Other HxCDD	0	37.6	18	1.5	45.4	0	0.323	0.183
Other HpCDD	0.401	48.2	3.24	1.29	114	2.25	1.96	0.351
Other TCDF	0	12.1	14.9	1.72	16.1	0	0.368	0
Other PeCDF	0	6.26	4.2	0.3	10.2	0.302	0.407	0
Other HxCDF	0	11	0.988	0.0859	23.4	0.297	0.406	0
Other HpCDF	0	11.6	0	0	39.6	1.05	0.994	0
Other PCDD/Fs (ND=0, EMPC=EMPC)								
Other TCDD	0	18	16.9	2.27	17.8	0.542	0.421	0.313
Other PeCDD	0	15.5	12.6	0.931	16.9	0	0	0
Other HxCDD	0	37.6	18.8	1.5	45.4	0.573	0.64	0.183
Other HpCDD	0.401	48.2	3.24	1.29	114	2.25	1.96	0.351
Other TCDF	0	12.7	15	2.12	16.5	0.381	0.647	0
Other PeCDF	0	6.79	4.35	0.373	10.5	0.302	0.619	0
Other HxCDF	0.0739	11.1	1.33	0.0859	23.9	0.492	0.659	0
Other HpCDF	0.254	11.6	0.112	0	39.6	1.05	0.994	0
Checkcode	348-705-QDP	639-644-YLN	154-115-VCR	356-778-NZZ	123-973-ZGB	089-341-FQT	308-442-QYD	915-861-FHL
Lab ID	MB1_11402_DF_SDSRJ	A5975_11402_DF_001RJ	A5975_11402_DF_002RJ	A5975_11402_DF_003RJ	A5975_11402_DF_008RJ	A5975_11402_DF_009RJ	A5975_11402_DF_010RJ	A5975_11402_DF_011RJ

() = DL

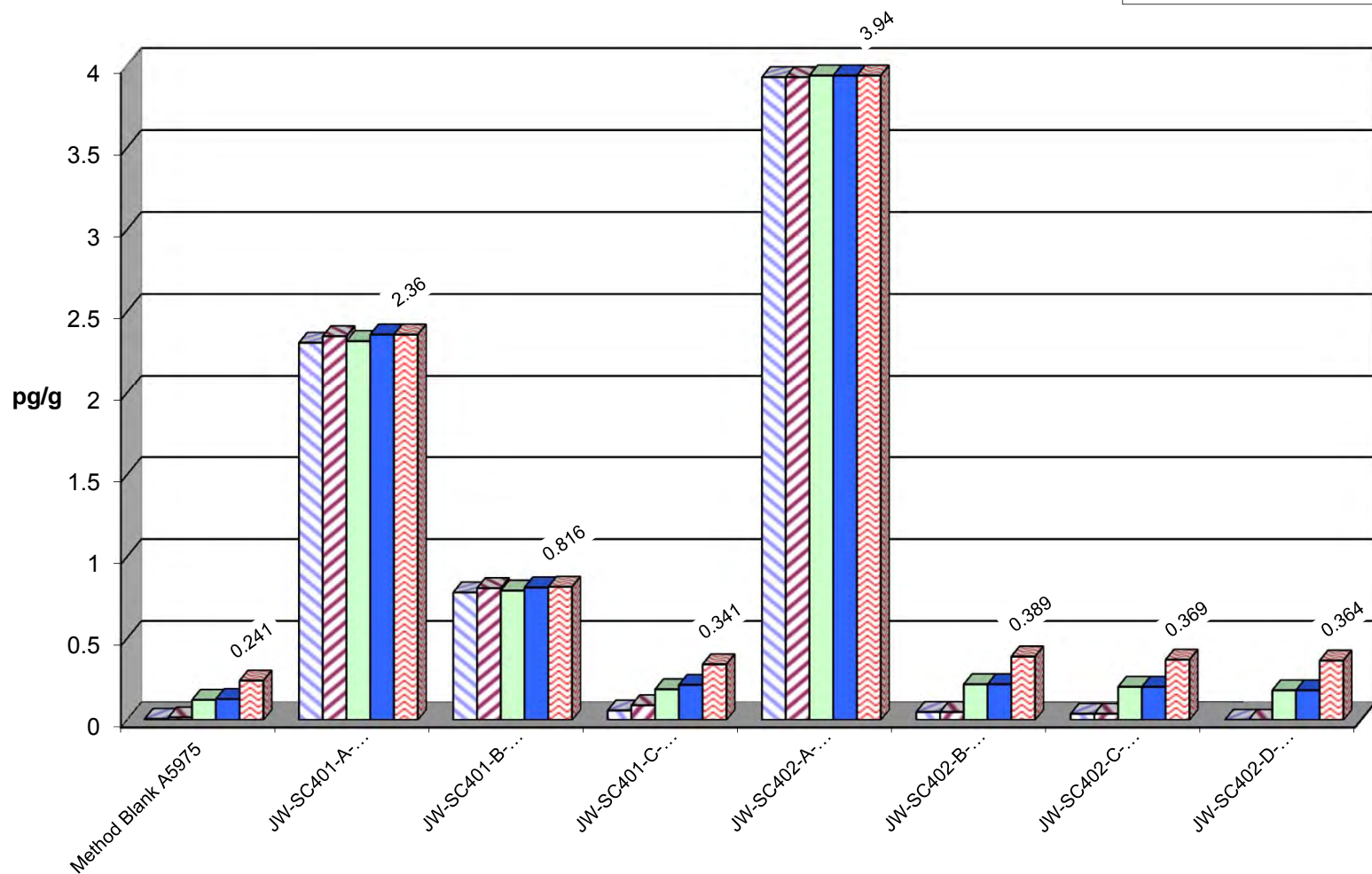
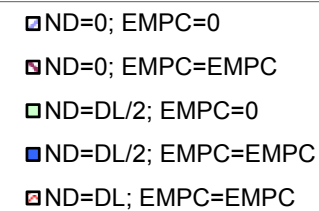
[] = EMPC

A5975 - DLs

Project ID: Jeld-Wen Former Nord Door site

Sample Summary Part 5 (DLs) (dry weight)						Method 1613B		
Analyte	Method Blank A5975 pg/g	JW-SC401- A-130928 pg/g	JW-SC401- B-130928 pg/g	JW-SC401- C-130928 pg/g	JW-SC402- A-130928 pg/g	JW-SC402- B-130928 pg/g	JW-SC402- C-130928 pg/g	JW-SC402- D-130928 pg/g
2,3,7,8-TCDD	0.0903	0.0816	0.0739	0.101	0.0767	0.106	0.106	0.122
1,2,3,7,8-PeCDD	0.0774	0.112	0.112	0.0947	0.13	0.135	0.135	0.126
1,2,3,4,7,8-HxCDD	0.0702	0.142	0.113	0.102	0.177	0.148	0.12	0.135
1,2,3,6,7,8-HxCDD	0.0755	0.145	0.126	0.106	0.195	0.149	0.124	0.136
1,2,3,7,8,9-HxCDD	0.0707	0.148	0.115	0.0994	0.18	0.156	0.118	0.129
1,2,3,4,6,7,8-HpCDD	0.0985	0.234	0.13	0.167	0.229	0.165	0.158	0.194
OCDD	0.215	0.333	0.254	0.264	0.252	0.307	0.291	0.317
2,3,7,8-TCDF	0.0509	0.0607	0.0626	0.0687	0.063	0.0773	0.0778	0.0798
1,2,3,7,8-PeCDF	0.0543	0.0613	0.0585	0.0544	0.073	0.0687	0.0852	0.0774
2,3,4,7,8-PeCDF	0.0533	0.062	0.0589	0.051	0.0686	0.0668	0.0841	0.0749
1,2,3,4,7,8-HxCDF	0.0461	0.101	0.0633	0.0785	0.074	0.0742	0.0587	0.0937
1,2,3,6,7,8-HxCDF	0.0467	0.0925	0.0597	0.0747	0.0692	0.0731	0.0599	0.0907
2,3,4,6,7,8-HxCDF	0.0471	0.0981	0.0624	0.0797	0.0731	0.0787	0.0653	0.0888
1,2,3,7,8,9-HxCDF	0.0561	0.115	0.0703	0.0943	0.085	0.0901	0.0741	0.106
1,2,3,4,6,7,8-HpCDF	0.0682	0.108	0.0853	0.0938	0.172	0.119	0.111	0.126
1,2,3,4,7,8,9-HpCDF	0.0807	0.122	0.0967	0.102	0.194	0.136	0.112	0.13
OCDF	0.124	0.152	0.131	0.161	0.165	0.186	0.182	0.174
Total TCDD	0.0903	0.0816	0.0739	0.101	0.0767	0.106	0.106	0.122
Total PeCDD	0.0774	0.112	0.112	0.0947	0.13	0.135	0.135	0.126
Total HxCDD	0.072	0.145	0.118	0.102	0.184	0.151	0.121	0.133
Total HpCDD	0.0985	0.234	0.13	0.167	0.229	0.165	0.158	0.194
Total TCDF	0.0509	0.0607	0.0626	0.0687	0.063	0.0773	0.0778	0.0798
Total PeCDF	0.0538	0.0616	0.0587	0.0528	0.0708	0.0678	0.0847	0.0762
Total HxCDF	0.0487	0.101	0.0637	0.0812	0.0749	0.0786	0.0641	0.0944
Total HpCDF	0.0741	0.115	0.0908	0.0979	0.182	0.127	0.111	0.128
Checkcode	348-705-QDP	639-644-YLN	154-115-VCR	356-778-NZZ	123-973-ZGB	089-341-FQT	308-442-QYD	915-861-FHL
Lab ID	MB1_11402_DF_SDSRJ	A5975_11402_DF_001RJ	A5975_11402_DF_002RJ	A5975_11402_DF_003RJ	A5975_11402_DF_008RJ	A5975_11402_DF_009RJ	A5975_11402_DF_010RJ	A5975_11402_DF_011RJ

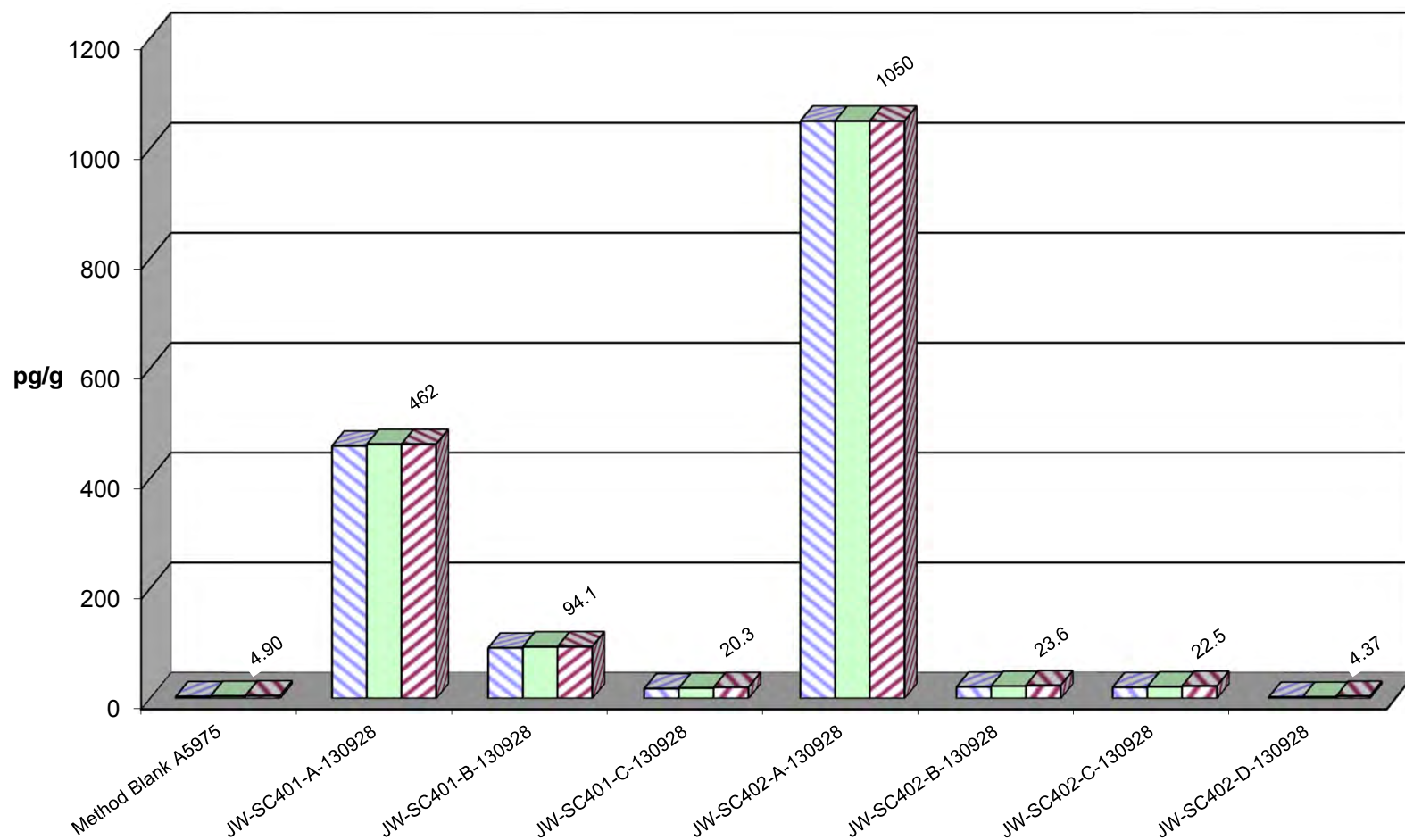
WHO-2005-TEQ
Project ID: Jeld-Wen Former Nord Door site
A5975



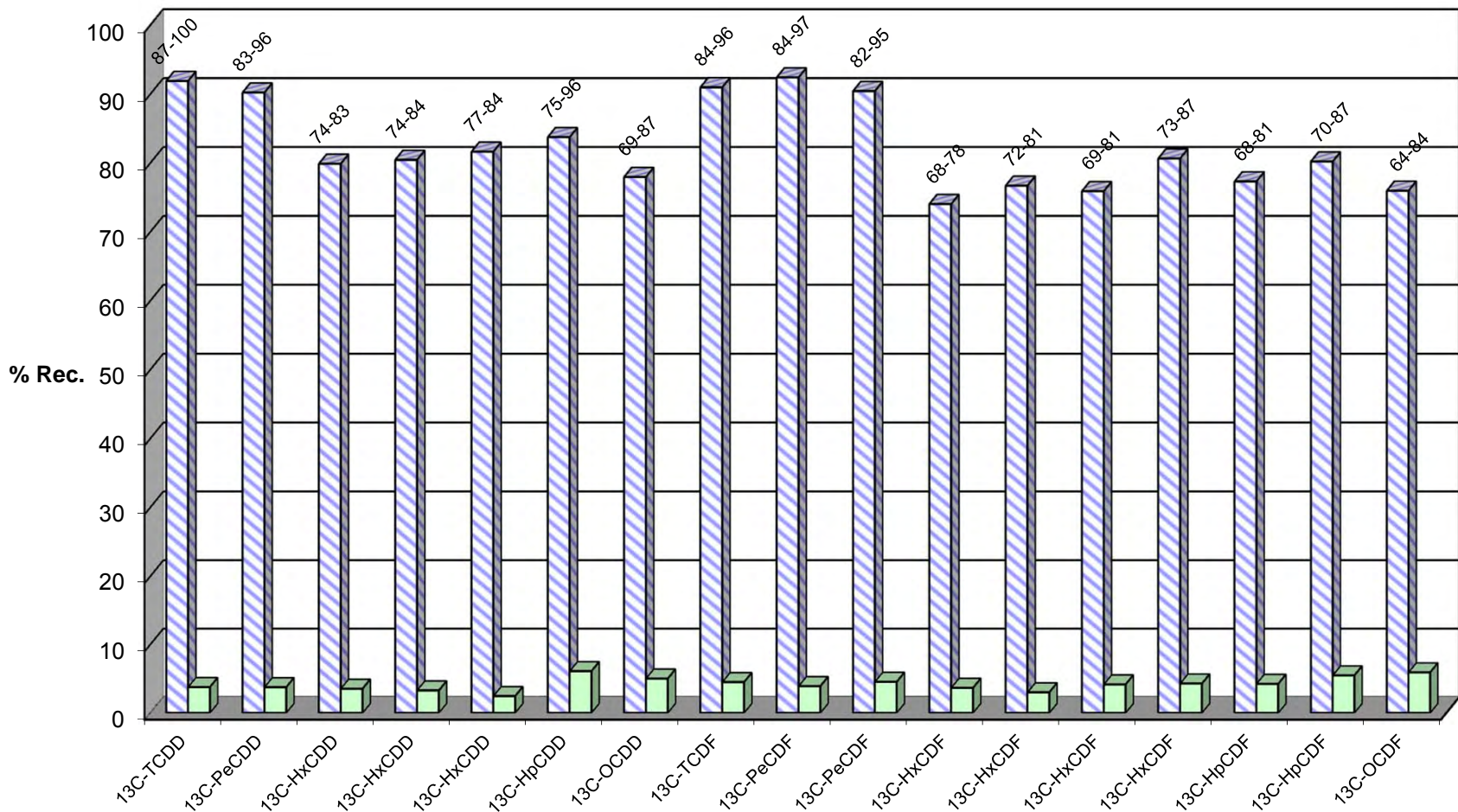
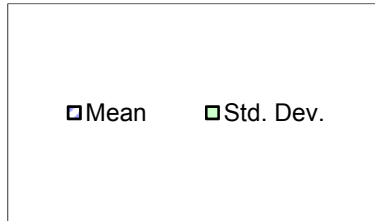
Totals

Project ID: Jeld-Wen Former Nord Do
A5975

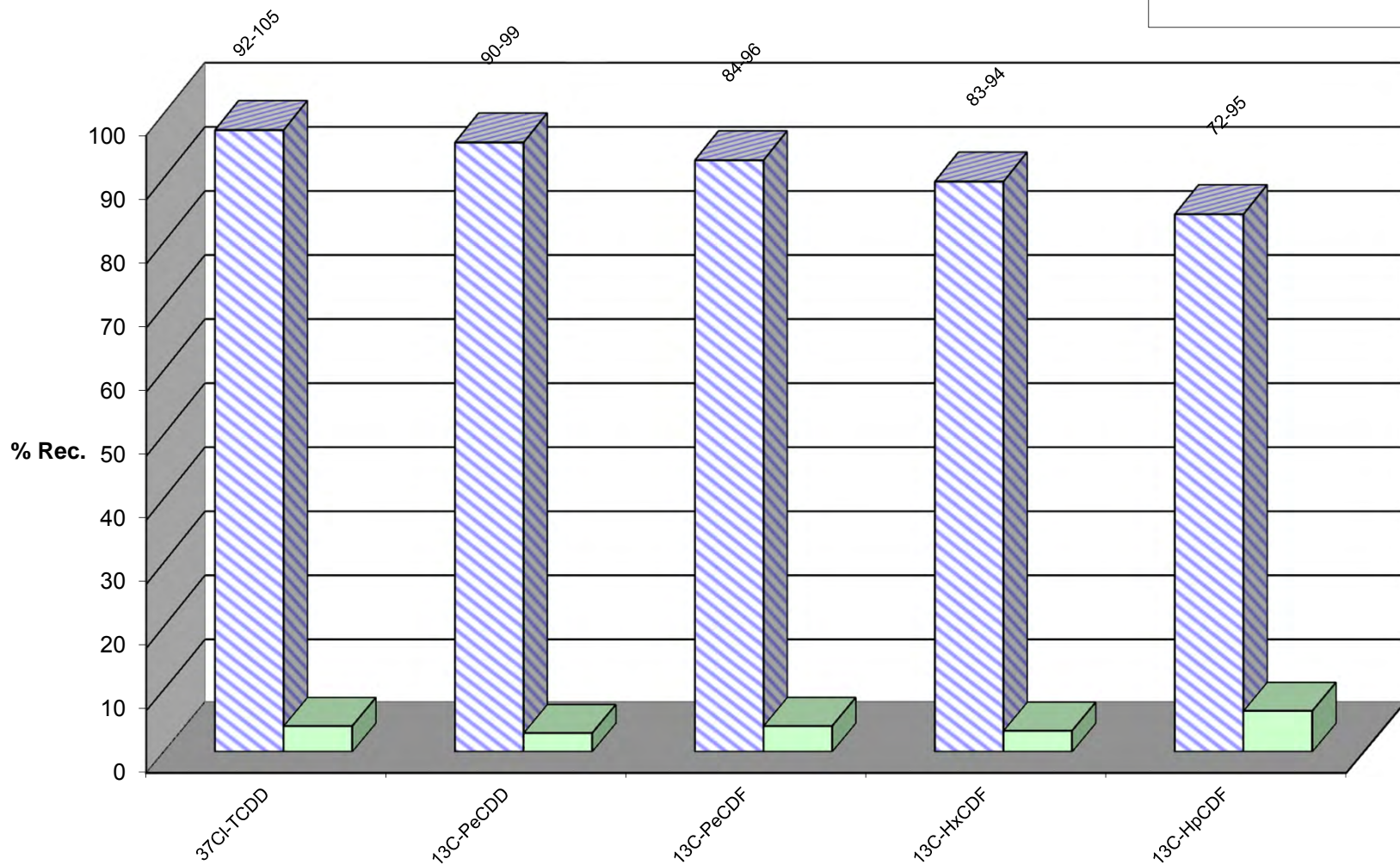
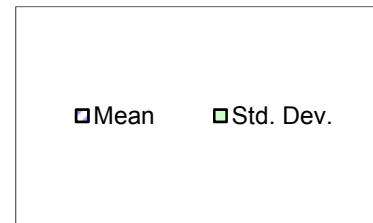
- Total PCDD/Fs (ND=0; EMPC=0)
- Total PCDD/Fs (ND=0; EMPC=EMPC)
- Total PCDD/Fs (2378-X ND=DL; EMPC=EMPC)



Mean Recoveries of Extraction Standards (N=8)
Project ID: Jeld-Wen Former Nord Door site
A5975



Mean Recoveries of Clean-Up Standards (N=8)
Project ID: Jeld-Wen Former Nord Door site
A5975




Sample ID: Method Blank A5975**Method 1613B**

Client Data		Sample Data		Laboratory Data			
Name:	ANCHOR QEA	Matrix:	Solids	Lab Project ID:	A5975	Date Received:	n/a
Project ID:	Jeld-Wen Former Nord Door site	Weight/Volume:	10.00 g	Lab Sample ID MB1_11402_DF_SDSRJ		Date Extracted:	08-Oct-2013
Date Collected:	n/a	% Solids:	100.0 %	QC Batch No:	11402	Date Analyzed:	14-Oct-2013
		Split:	-	Dilution:	-	Time Analyzed:	00:57:21
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	0.0903			ES 2378-TCDD	92.5	
12378-PeCDD	ND	0.0774			ES 12378-PeCDD	93.4	
123478-HxCDD	ND	0.0702			ES 123478-HxCDD	80.8	
123678-HxCDD	ND	0.0755			ES 123678-HxCDD	83	
123789-HxCDD	EMPC		0.077	J	ES 123789-HxCDD	81.6	
1234678-HpCDD	0.58			J	ES 1234678-HpCDD	83.2	
OCDD	2.37			J	ES OCDD	77.2	
2378-TCDF	ND	0.0509			ES 2378-TCDF	90.1	
12378-PeCDF	ND	0.0543			ES 12378-PeCDF	95.4	
23478-PeCDF	ND	0.0533			ES 23478-PeCDF	95.2	
123478-HxCDF	ND	0.0461			ES 123478-HxCDF	75	
123678-HxCDF	ND	0.0467			ES 123678-HxCDF	78.2	
234678-HxCDF	ND	0.0471			ES 234678-HxCDF	77	
123789-HxCDF	ND	0.0561			ES 123789-HxCDF	81.9	
1234678-HpCDF	EMPC		0.0929	J	ES 1234678-HpCDF	79.3	
1234789-HpCDF	ND	0.0807			ES 1234789-HpCDF	81.3	
OCDF	0.295			J	ES OCDF	78.8	
Totals					Standard	CS/AS Recoveries	
Total TCDD	ND	0.0903	ND		CS 37Cl-2378-TCDD	94.8	
Total PeCDD	ND	0.0774	ND		CS 12347-PeCDD	99.1	
Total HxCDD	ND		0.077		CS 12346-PeCDF	95.4	
Total HpCDD	0.982		0.982		CS 123469-HxCDF	90.5	
Total TCDF	ND	0.0509	ND		CS 1234689-HpCDF	81.9	
Total PeCDF	ND	0.0538	ND		AS 1368-TCDD	100	
Total HxCDF	ND		0.0739		AS 1368-TCDF	83.5	
Total HpCDF	ND		0.347				
Total PCDD/Fs	3.65		4.15				
WHO-2005 TEQs							
TEQ: ND=0	0.0066		0.0152				
TEQ: ND=DL/2	0.123	0.117	0.128				
TEQ: ND=DL	0.24	0.234	0.241				



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Sample ID: Method Blank A5975			TEQ Summary			Method 1613B	
Client Project Name: ANCHOR QEA			Matrix: Solids			Lab Sample ID: MB1_11402_DF_SDSRJ	
Client Project ID: Jeld-Wen Former Nord Door site			Weight/Volume: 10.00 g			QC Batch No.: 11402	
Date Collected: n/a			Split: -			Date Extracted: 08-Oct-2013	
Date Received: n/a			Dilution: -			Date Analyzed: 14-Oct-2013 00:57	
Lab Project No: A5975			Units: pg/g				
Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005	
2378-TCDD	(0.0903)		0.0903	(0.0903)	(0.0903)	(0.0903)	
12378-PeCDD	(0.0774)		0.0774	(0.0387)	(0.0774)	(0.0774)	
123478-HxCDD	(0.0702)		0.0702	(0.00702)	(0.00702)	(0.00702)	
123678-HxCDD	(0.0755)		0.0755	(0.00755)	(0.00755)	(0.00755)	
123789-HxCDD	[0.077]	J	0.0707	[0.0077]	[0.0077]	[0.0077]	
1234678-HpCDD	0.58	J	0.0985	0.0058	0.0058	0.0058	
OCDD	2.37	J	0.215	0.00237	0.000237	0.000712	
2378-TCDF	(0.0509)		0.0509	(0.00509)	(0.00509)	(0.00509)	
12378-PeCDF	(0.0543)		0.0543	(0.00272)	(0.00272)	(0.00163)	
23478-PeCDF	(0.0533)		0.0533	(0.0267)	(0.0267)	(0.016)	
123478-HxCDF	(0.0461)		0.0461	(0.00461)	(0.00461)	(0.00461)	
123678-HxCDF	(0.0467)		0.0467	(0.00467)	(0.00467)	(0.00467)	
234678-HxCDF	(0.0471)		0.0471	(0.00471)	(0.00471)	(0.00471)	
123789-HxCDF	(0.0561)		0.0561	(0.00561)	(0.00561)	(0.00561)	
1234678-HpCDF	[0.0929]	J	0.0682	[0.000929]	[0.000929]	[0.000929]	
1234789-HpCDF	(0.0807)		0.0807	(0.000807)	(0.000807)	(0.000807)	
OCDF	0.295	J	0.124	0.000295	0.0000295	0.0000886	
 <p>2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 www.us.sgs.com</p>			TEQ Summaries				
			EMPC = 0, ND = 0	0.00847	0.00607	0.0066	
			EMPC = 0, ND = DL / 2	0.112	0.129	0.123	
			EMPC = 0, ND = DL	0.215	0.251	0.24	
			EMPC = 0, < J-level = 0	0	0	0	
			EMPC = EMPC, ND = 0	0.0171	0.0147	0.0152	
			EMPC = EMPC, ND = DL / 2	0.116	0.133	0.128	
			EMPC = EMPC, ND = DL	0.216	0.252	0.241	
			EMPC = EMPC, < J-level = 0	0	0	0	


Sample ID: JW-SC401-A-130928**Method 1613B**

<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name:	ANCHOR QEA	Matrix:	Solids	Lab Project ID:	A5975	Date Received:	01-Oct-2013
Project ID:	Jeld-Wen Former Nord Door site	Weight/Volume:	10.01 g	Lab Sample ID:	A5975_11402_DF_001RJ	Date Extracted:	08-Oct-2013
Date Collected:	28-Sep-2013	% Solids:	78.2 %	QC Batch No:	11402	Date Analyzed:	14-Oct-2013
		Split:	-	Dilution:	-	Time Analyzed:	01:49:59
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	0.215			J	ES 2378-TCDD	92.1	
12378-PeCDD	0.5			J	ES 12378-PeCDD	89.4	
123478-HxCDD	0.946			J	ES 123478-HxCDD	83.3	
123678-HxCDD	3.51				ES 123678-HxCDD	84	
123789-HxCDD	1.57			J	ES 123789-HxCDD	84.5	
1234678-HpCDD	39.9				ES 1234678-HpCDD	85.8	
OCDD	233				ES OCDD	81	
2378-TCDF	1.36				ES 2378-TCDF	96.3	
12378-PeCDF	0.286			J	ES 12378-PeCDF	96.9	
23478-PeCDF	0.632			J	ES 23478-PeCDF	94	
123478-HxCDF	EMPC		0.413	J	ES 123478-HxCDF	78.1	
123678-HxCDF	0.419			J	ES 123678-HxCDF	80.6	
234678-HxCDF	0.685			J	ES 234678-HxCDF	81.1	
123789-HxCDF	ND	0.115			ES 123789-HxCDF	84.2	
1234678-HpCDF	7.32				ES 1234678-HpCDF	79.4	
1234789-HpCDF	0.381			J	ES 1234789-HpCDF	83.3	
OCDF	9.23				ES OCDF	80.8	
Totals					Standard	CS/AS Recoveries	
Total TCDD	18.1		18.2		CS 37CI-2378-TCDD	97	
Total PeCDD	15.5		16		CS 12347-PeCDD	95.2	
Total HxCDD	43.6		43.6		CS 12346-PeCDF	96.3	
Total HpCDD	88.1		88.1		CS 123469-HxCDF	94	
Total TCDF	13.4		14		CS 1234689-HpCDF	86.1	
Total PeCDF	7.18		7.71		AS 1368-TCDD	113	
Total HxCDF	12.1		12.6		AS 1368-TCDF	91.9	
Total HpCDF	19.3		19.3				
Total PCDD/Fs	459		462				
WHO-2005 TEQs							
TEQ: ND=0	2.31		2.35				
TEQ: ND=DL/2	2.32	0.154	2.36				
TEQ: ND=DL	2.33	0.309	2.36				



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Sample ID: JW-SC401-A-130928			TEQ Summary		Method 1613B		
Client Project Name: ANCHOR QEA			Matrix: Solids		Lab Sample ID: A5975_11402_DF_001RJ		
Client Project ID: Jeld-Wen Former Nord Door site			Weight/Volume: 10.01 g		QC Batch No.: 11402		
Date Collected: 28-Sep-2013			Split: -		Date Extracted: 08-Oct-2013		
Date Received: 01-Oct-2013			Dilution: -		Date Analyzed: 14-Oct-2013 01:49		
Lab Project No: A5975			Units: pg/g				
Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005	
2378-TCDD	0.215	J	0.0816	0.215	0.215	0.215	
12378-PeCDD	0.5	J	0.112	0.25	0.5	0.5	
123478-HxCDD	0.946	J	0.142	0.0946	0.0946	0.0946	
123678-HxCDD	3.51		0.145	0.351	0.351	0.351	
123789-HxCDD	1.57	J	0.148	0.157	0.157	0.157	
1234678-HpCDD	39.9		0.234	0.399	0.399	0.399	
OCDD	233		0.333	0.233	0.0233	0.0699	
2378-TCDF	1.36		0.0607	0.136	0.136	0.136	
12378-PeCDF	0.286	J	0.0613	0.0143	0.0143	0.00859	
23478-PeCDF	0.632	J	0.062	0.316	0.316	0.19	
123478-HxCDF	[0.413]	J	0.101	[0.0413]	[0.0413]	[0.0413]	
123678-HxCDF	0.419	J	0.0925	0.0419	0.0419	0.0419	
234678-HxCDF	0.685	J	0.0981	0.0685	0.0685	0.0685	
123789-HxCDF	(0.115)		0.115	(0.0115)	(0.0115)	(0.0115)	
1234678-HpCDF	7.32		0.108	0.0732	0.0732	0.0732	
1234789-HpCDF	0.381	J	0.122	0.00381	0.00381	0.00381	
OCDF	9.23		0.152	0.00923	0.000923	0.00277	
 <p>2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 www.us.sgs.com</p>			TEQ Summaries				
			EMPC = 0, ND = 0		2.36	2.39	2.31
			EMPC = 0, ND = DL / 2		2.37	2.4	2.32
			EMPC = 0, ND = DL		2.38	2.42	2.33
			EMPC = 0, < J-level = 0		1.2	0.983	1.03
			EMPC = EMPC, ND = 0		2.4	2.44	2.35
			EMPC = EMPC, ND = DL / 2		2.41	2.44	2.36
			EMPC = EMPC, ND = DL		2.41	2.45	2.36
			EMPC = EMPC, < J-level = 0		1.2	0.983	1.03


Sample ID: JW-SC401-B-130928**Method 1613B**

Client Data		Sample Data		Laboratory Data			
Name:	ANCHOR QEA	Matrix:	Solids	Lab Project ID:	A5975	Date Received:	01-Oct-2013
Project ID:	Jeld-Wen Former Nord Door site	Weight/Volume:	10.08 g	Lab Sample ID	A5975_11402_DF_002RJ	Date Extracted:	08-Oct-2013
Date Collected:	28-Sep-2013	% Solids:	82.1 %	QC Batch No:	11402	Date Analyzed:	14-Oct-2013
		Split:	-	Dilution:	-	Time Analyzed:	02:42:34
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	0.116			J	ES 2378-TCDD	93.9	
12378-PeCDD	0.22			J	ES 12378-PeCDD	89.2	
123478-HxCDD	0.304			J	ES 123478-HxCDD	82.9	
123678-HxCDD	0.467			J	ES 123678-HxCDD	82.2	
123789-HxCDD	0.402			J B	ES 123789-HxCDD	84.3	
1234678-HpCDD	4.54			B	ES 1234678-HpCDD	95.7	
OCDD	12.9			B	ES OCDD	87	
2378-TCDF	0.928				ES 2378-TCDF	95.3	
12378-PeCDF	0.318			J	ES 12378-PeCDF	94.3	
23478-PeCDF	0.517			J	ES 23478-PeCDF	92.3	
123478-HxCDF	EMPC		0.127	J	ES 123478-HxCDF	77.6	
123678-HxCDF	EMPC		0.127	J	ES 123678-HxCDF	78.7	
234678-HxCDF	0.203			J	ES 234678-HxCDF	80.8	
123789-HxCDF	ND	0.0703			ES 123789-HxCDF	86.6	
1234678-HpCDF	0.239			J B	ES 1234678-HpCDF	80.8	
1234789-HpCDF	ND	0.0967			ES 1234789-HpCDF	87.3	
OCDF	EMPC		0.174	J B	ES OCDF	84.1	
Totals					Standard	CS/AS Recoveries	
Total TCDD	17.1		17.1		CS 37Cl-2378-TCDD	101	
Total PeCDD	12.7		12.8		CS 12347-PeCDD	93.9	
Total HxCDD	19.2		20		CS 12346-PeCDF	94	
Total HpCDD	7.79		7.79		CS 123469-HxCDF	89.7	
Total TCDF	15.8		15.9		CS 1234689-HpCDF	95.2	
Total PeCDF	5.03		5.18		AS 1368-TCDD	109	
Total HxCDF	1.19		1.78		AS 1368-TCDF	91.4	
Total HpCDF	0.239		0.35				
Total PCDD/Fs	91.8		93.9				
WHO-2005 TEQs							
TEQ: ND=0	0.782		0.808				
TEQ: ND=DL/2	0.793	0.138	0.812				
TEQ: ND=DL	0.803	0.276	0.816				



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Sample ID: JW-SC401-B-130928			TEQ Summary		Method 1613B			
Client Project Name: ANCHOR QEA			Matrix: Solids		Lab Sample ID: A5975_11402_DF_002RJ			
Client Project ID: Jeld-Wen Former Nord Door site			Weight/Volume: 10.08 g		QC Batch No.: 11402			
Date Collected: 28-Sep-2013			Split: -		Date Extracted: 08-Oct-2013			
Date Received: 01-Oct-2013			Dilution: -		Date Analyzed: 14-Oct-2013 02:42			
Lab Project No: A5975			Units: pg/g					
Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005		
2378-TCDD	0.116	J	0.0739	0.116	0.116	0.116		
12378-PeCDD	0.22	J	0.112	0.11	0.22	0.22		
123478-HxCDD	0.304	J	0.113	0.0304	0.0304	0.0304		
123678-HxCDD	0.467	J	0.126	0.0467	0.0467	0.0467		
123789-HxCDD	0.402	J B	0.115	0.0402	0.0402	0.0402		
1234678-HpCDD	4.54	B	0.13	0.0454	0.0454	0.0454		
OCDD	12.9	B	0.254	0.0129	0.00129	0.00387		
2378-TCDF	0.928		0.0626	0.0928	0.0928	0.0928		
12378-PeCDF	0.318	J	0.0585	0.0159	0.0159	0.00953		
23478-PeCDF	0.517	J	0.0589	0.258	0.258	0.155		
123478-HxCDF	[0.127]	J	0.0633	[0.0127]	[0.0127]	[0.0127]		
123678-HxCDF	[0.127]	J	0.0597	[0.0127]	[0.0127]	[0.0127]		
234678-HxCDF	0.203	J	0.0624	0.0203	0.0203	0.0203		
123789-HxCDF	(0.0703)		0.0703	(0.00703)	(0.00703)	(0.00703)		
1234678-HpCDF	0.239	J B	0.0853	0.00239	0.00239	0.00239		
1234789-HpCDF	(0.0967)		0.0967	(0.000967)	(0.000967)	(0.000967)		
OCDF	[0.174]	J B	0.131	[0.000174]	[0.0000174]	[0.0000523]		
 <p>2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 www.us.sgs.com</p>			TEQ Summaries					
			EMPC = 0, ND = 0			0.791	0.89	0.782
			EMPC = 0, ND = DL / 2			0.802	0.9	0.793
			EMPC = 0, ND = DL			0.812	0.91	0.803
			EMPC = 0, < J-level = 0			0.151	0.139	0.142
			EMPC = EMPC, ND = 0			0.817	0.915	0.808
			EMPC = EMPC, ND = DL / 2			0.821	0.919	0.812
			EMPC = EMPC, ND = DL			0.825	0.923	0.816
			EMPC = EMPC, < J-level = 0			0.151	0.139	0.142


Sample ID: JW-SC401-C-130928**Method 1613B**

Client Data		Sample Data		Laboratory Data			
Name:	ANCHOR QEA	Matrix:	Solids	Lab Project ID:	A5975	Date Received:	01-Oct-2013
Project ID:	Jeld-Wen Former Nord Door site	Weight/Volume:	10.06 g	Lab Sample ID:	A5975_11402_DF_003RJ	Date Extracted:	08-Oct-2013
Date Collected:	28-Sep-2013	% Solids:	78.1 %	QC Batch No:	11402	Date Analyzed:	14-Oct-2013
		Split:	-	Dilution:	-	Time Analyzed:	03:35:03
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	0.101			ES 2378-TCDD	89.6	
12378-PeCDD	ND	0.0947			ES 12378-PeCDD	92.5	
123478-HxCDD	ND	0.102			ES 123478-HxCDD	74.3	
123678-HxCDD	ND	0.106			ES 123678-HxCDD	74.1	
123789-HxCDD	0.142			J B	ES 123789-HxCDD	77.2	
1234678-HpCDD	0.859			J B	ES 1234678-HpCDD	75.2	
OCDD	9.19			B	ES OCDD	69.1	
2378-TCDF	EMPC		0.297	J	ES 2378-TCDF	84.1	
12378-PeCDF	EMPC		0.0635	J	ES 12378-PeCDF	91	
23478-PeCDF	0.108			J	ES 23478-PeCDF	86.1	
123478-HxCDF	ND	0.0785			ES 123478-HxCDF	67.9	
123678-HxCDF	ND	0.0747			ES 123678-HxCDF	72.3	
234678-HxCDF	ND	0.0797			ES 234678-HxCDF	69.2	
123789-HxCDF	ND	0.0943			ES 123789-HxCDF	73.2	
1234678-HpCDF	ND	0.0938			ES 1234678-HpCDF	67.6	
1234789-HpCDF	ND	0.102			ES 1234789-HpCDF	69.7	
OCDF	ND	0.161			ES OCDF	64.5	
Totals					Standard	CS/AS Recoveries	
Total TCDD	1.87		2.27		CS 37Cl-2378-TCDD	92.4	
Total PeCDD	0.931		0.931		CS 12347-PeCDD	97.6	
Total HxCDD	1.64		1.64		CS 12346-PeCDF	89.3	
Total HpCDD	2.14		2.14		CS 123469-HxCDF	82.9	
Total TCDF	1.72		2.41		CS 1234689-HpCDF	71.9	
Total PeCDF	0.408		0.545		AS 1368-TCDD	104	
Total HxCDF	0.0859		0.0859		AS 1368-TCDF	82.3	
Total HpCDF	ND	0.0979	ND				
Total PCDD/Fs	18		19.2				
WHO-2005 TEQs							
TEQ: ND=0	0.058		0.0896				
TEQ: ND=DL/2	0.188	0.143	0.215				
TEQ: ND=DL	0.318	0.287	0.341				



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Sample ID: JW-SC401-C-130928		TEQ Summary			Method 1613B		
Client Project Name: ANCHOR QEA		Matrix: Solids		Lab Sample ID: A5975_11402_DF_003RJ			
Client Project ID: Jeld-Wen Former Nord Door site		Weight/Volume: 10.06 g		QC Batch No.: 11402			
Date Collected: 28-Sep-2013		Split: -		Date Extracted: 08-Oct-2013			
Date Received: 01-Oct-2013		Dilution: -		Date Analyzed: 14-Oct-2013 03:35			
Lab Project No: A5975		Units: pg/g					
Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005	
2378-TCDD	(0.101)		0.101	(0.101)	(0.101)	(0.101)	
12378-PeCDD	(0.0947)		0.0947	(0.0474)	(0.0947)	(0.0947)	
123478-HxCDD	(0.102)		0.102	(0.0102)	(0.0102)	(0.0102)	
123678-HxCDD	(0.106)		0.106	(0.0106)	(0.0106)	(0.0106)	
123789-HxCDD	0.142	J B	0.0994	0.0142	0.0142	0.0142	
1234678-HpCDD	0.859	J B	0.167	0.00859	0.00859	0.00859	
OCDD	9.19	B	0.264	0.00919	0.000919	0.00276	
2378-TCDF	[0.297]	J	0.0687	[0.0297]	[0.0297]	[0.0297]	
12378-PeCDF	[0.0635]	J	0.0544	[0.00317]	[0.00317]	[0.0019]	
23478-PeCDF	0.108	J	0.051	0.0541	0.0541	0.0325	
123478-HxCDF	(0.0785)		0.0785	(0.00785)	(0.00785)	(0.00785)	
123678-HxCDF	(0.0747)		0.0747	(0.00747)	(0.00747)	(0.00747)	
234678-HxCDF	(0.0797)		0.0797	(0.00797)	(0.00797)	(0.00797)	
123789-HxCDF	(0.0943)		0.0943	(0.00943)	(0.00943)	(0.00943)	
1234678-HpCDF	(0.0938)		0.0938	(0.000938)	(0.000938)	(0.000938)	
1234789-HpCDF	(0.102)		0.102	(0.00102)	(0.00102)	(0.00102)	
OCDF	(0.161)		0.161	(0.000161)	(0.0000161)	(0.0000483)	
 <p>2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 www.us.sgs.com</p>		TEQ Summaries					
		EMPC = 0, ND = 0			0.0861	0.0778	0.058
		EMPC = 0, ND = DL / 2			0.193	0.208	0.188
		EMPC = 0, ND = DL			0.3	0.339	0.318
		EMPC = 0, < J-level = 0			0.00919	0.000919	0.00276
		EMPC = EMPC, ND = 0			0.119	0.111	0.0896
		EMPC = EMPC, ND = DL / 2			0.221	0.236	0.215
		EMPC = EMPC, ND = DL			0.323	0.362	0.341
		EMPC = EMPC, < J-level = 0			0.00919	0.000919	0.00276

Sample ID: JW-SC402-A-130928**Method 1613B**


Client Data		Sample Data		Laboratory Data			
Name:	ANCHOR QEA	Matrix:	Solids	Lab Project ID:	A5975	Date Received:	01-Oct-2013
Project ID:	Jeld-Wen Former Nord Door site	Weight/Volume:	10.05 g	Lab Sample ID:	A5975_11402_DF_008RJ	Date Extracted:	08-Oct-2013
Date Collected:	28-Sep-2013	% Solids:	59.6 %	QC Batch No:	11402	Date Analyzed:	14-Oct-2013
		Split:	-	Dilution:	-	Time Analyzed:	04:27:38
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	0.257			J	ES 2378-TCDD	99.7	
12378-PeCDD	0.709			J	ES 12378-PeCDD	95.6	
123478-HxCDD	1.38			J	ES 123478-HxCDD	81.6	
123678-HxCDD	5.18				ES 123678-HxCDD	80.2	
123789-HxCDD	2.68				ES 123789-HxCDD	82.6	
1234678-HpCDD	85.3				ES 1234678-HpCDD	84.3	
OCDD	602				ES OCDD	76	
2378-TCDF	1.98				ES 2378-TCDF	91.7	
12378-PeCDF	0.438			J	ES 12378-PeCDF	93	
23478-PeCDF	0.991			J	ES 23478-PeCDF	90.9	
123478-HxCDF	0.975			J	ES 123478-HxCDF	75.9	
123678-HxCDF	0.775			J	ES 123678-HxCDF	78.5	
234678-HxCDF	1.25			J	ES 234678-HxCDF	77.5	
123789-HxCDF	ND	0.085			ES 123789-HxCDF	82.3	
1234678-HpCDF	17.7				ES 1234678-HpCDF	78.6	
1234789-HpCDF	1.02			J	ES 1234789-HpCDF	80.5	
OCDF	44.3				ES OCDF	73.2	
Totals					Standard	CS/AS Recoveries	
Total TCDD	17.5		18.1		CS 37Cl-2378-TCDD	105	
Total PeCDD	17.6		17.6		CS 12347-PeCDD	97.8	
Total HxCDD	54.6		54.6		CS 12346-PeCDF	96.5	
Total HpCDD	199		199		CS 123469-HxCDF	92	
Total TCDF	18.1		18.5		CS 1234689-HpCDF	84.8	
Total PeCDF	11.6		11.9		AS 1368-TCDD	114	
Total HxCDF	26.4		26.9		AS 1368-TCDF	89	
Total HpCDF	58.3		58.3				
Total PCDD/Fs	1050		1050				
WHO-2005 TEQs							
TEQ: ND=0	3.93		3.93				
TEQ: ND=DL/2	3.94	0.164	3.94				
TEQ: ND=DL	3.94	0.327	3.94				



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Sample ID: JW-SC402-A-130928			TEQ Summary		Method 1613B	
Client Project Name: ANCHOR QEA			Matrix: Solids		Lab Sample ID: A5975_11402_DF_008RJ	
Client Project ID: Jeld-Wen Former Nord Door site			Weight/Volume: 10.05 g		QC Batch No.: 11402	
Date Collected: 28-Sep-2013			Split: -		Date Extracted: 08-Oct-2013	
Date Received: 01-Oct-2013			Dilution: -		Date Analyzed: 14-Oct-2013 04:27	
Lab Project No: A5975			Units: pg/g			
Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	0.257	J	0.0767	0.257	0.257	0.257
12378-PeCDD	0.709	J	0.13	0.355	0.709	0.709
123478-HxCDD	1.38	J	0.177	0.138	0.138	0.138
123678-HxCDD	5.18		0.195	0.518	0.518	0.518
123789-HxCDD	2.68		0.18	0.268	0.268	0.268
1234678-HpCDD	85.3		0.229	0.853	0.853	0.853
OCDD	602		0.252	0.602	0.0602	0.181
2378-TCDF	1.98		0.063	0.198	0.198	0.198
12378-PeCDF	0.438	J	0.073	0.0219	0.0219	0.0132
23478-PeCDF	0.991	J	0.0686	0.496	0.496	0.297
123478-HxCDF	0.975	J	0.074	0.0975	0.0975	0.0975
123678-HxCDF	0.775	J	0.0692	0.0775	0.0775	0.0775
234678-HxCDF	1.25	J	0.0731	0.125	0.125	0.125
123789-HxCDF	(0.085)		0.085	(0.0085)	(0.0085)	(0.0085)
1234678-HpCDF	17.7		0.172	0.177	0.177	0.177
1234789-HpCDF	1.02	J	0.194	0.0102	0.0102	0.0102
OCDF	44.3		0.165	0.0443	0.00443	0.0133
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			EMPC = 0, ND = 0	4.24	4.01	3.93
			EMPC = 0, ND = DL / 2	4.24	4.01	3.94
			EMPC = 0, ND = DL	4.25	4.02	3.94
			EMPC = 0, < J-level = 0	2.66	2.08	2.21
			EMPC = EMPC, ND = 0	4.24	4.01	3.93
			EMPC = EMPC, ND = DL / 2	4.24	4.01	3.94
			EMPC = EMPC, ND = DL	4.25	4.02	3.94
EMPC = EMPC, < J-level = 0	2.66	2.08	2.21			

Sample ID: JW-SC402-B-130928**Method 1613B**


Client Data		Sample Data		Laboratory Data			
Name:	ANCHOR QEA	Matrix:	Solids	Lab Project ID:	A5975	Date Received:	01-Oct-2013
Project ID:	Jeld-Wen Former Nord Door site	Weight/Volume:	10.03 g	Lab Sample ID:	A5975_11402_DF_009RJ	Date Extracted:	08-Oct-2013
Date Collected:	28-Sep-2013	% Solids:	83.1 %	QC Batch No:	11402	Date Analyzed:	14-Oct-2013
		Split:	-	Dilution:	-	Time Analyzed:	05:20:12
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	0.106			ES 2378-TCDD	90.5	
12378-PeCDD	ND	0.135			ES 12378-PeCDD	88.8	
123478-HxCDD	ND	0.148			ES 123478-HxCDD	80	
123678-HxCDD	ND	0.149			ES 123678-HxCDD	81.4	
123789-HxCDD	ND	0.156			ES 123789-HxCDD	80.6	
1234678-HpCDD	2.04			J B	ES 1234678-HpCDD	79.9	
OCDD	12.7			B	ES OCDD	77.8	
2378-TCDF	0.178			J	ES 2378-TCDF	93.6	
12378-PeCDF	ND	0.0687			ES 12378-PeCDF	93.4	
23478-PeCDF	ND	0.0668			ES 23478-PeCDF	93.1	
123478-HxCDF	ND	0.0742			ES 123478-HxCDF	74.7	
123678-HxCDF	ND	0.0731			ES 123678-HxCDF	76.8	
234678-HxCDF	ND	0.0787			ES 234678-HxCDF	76.4	
123789-HxCDF	ND	0.0901			ES 123789-HxCDF	81.1	
1234678-HpCDF	0.626			J B	ES 1234678-HpCDF	77.7	
1234789-HpCDF	ND	0.136			ES 1234789-HpCDF	81.7	
OCDF	1.23			J B	ES OCDF	74.3	
Totals					Standard	CS/AS Recoveries	
Total TCDD	0.322		0.542		CS 37Cl-2378-TCDD	97.1	
Total PeCDD	ND	0.135	ND		CS 12347-PeCDD	94.9	
Total HxCDD	ND		0.573		CS 12346-PeCDF	93.2	
Total HpCDD	4.29		4.29		CS 123469-HxCDF	89.9	
Total TCDF	0.178		0.559		CS 1234689-HpCDF	84	
Total PeCDF	0.302		0.302		AS 1368-TCDD	114	
Total HxCDF	0.297		0.492		AS 1368-TCDF	86.8	
Total HpCDF	1.67		1.67				
Total PCDD/Fs	21		22.4				
WHO-2005 TEQs							
TEQ: ND=0	0.0486		0.0486				
TEQ: ND=DL/2	0.219	0.176	0.219				
TEQ: ND=DL	0.389	0.351	0.389				



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Sample ID: JW-SC402-B-130928			TEQ Summary		Method 1613B					
Client Project Name: ANCHOR QEA			Matrix: Solids		Lab Sample ID: A5975_11402_DF_009RJ					
Client Project ID: Jeld-Wen Former Nord Door site			Weight/Volume: 10.03 g		QC Batch No.: 11402					
Date Collected: 28-Sep-2013			Split: -		Date Extracted: 08-Oct-2013					
Date Received: 01-Oct-2013			Dilution: -		Date Analyzed: 14-Oct-2013 05:20					
Lab Project No: A5975			Units: pg/g							
Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005				
2378-TCDD	(0.106)		0.106	(0.106)	(0.106)	(0.106)				
12378-PeCDD	(0.135)		0.135	(0.0675)	(0.135)	(0.135)				
123478-HxCDD	(0.148)		0.148	(0.0148)	(0.0148)	(0.0148)				
123678-HxCDD	(0.149)		0.149	(0.0149)	(0.0149)	(0.0149)				
123789-HxCDD	(0.156)		0.156	(0.0156)	(0.0156)	(0.0156)				
1234678-HpCDD	2.04	J B	0.165	0.0204	0.0204	0.0204				
OCDD	12.7	B	0.307	0.0127	0.00127	0.00381				
2378-TCDF	0.178	J	0.0773	0.0178	0.0178	0.0178				
12378-PeCDF	(0.0687)		0.0687	(0.00344)	(0.00344)	(0.00206)				
23478-PeCDF	(0.0668)		0.0668	(0.0334)	(0.0334)	(0.02)				
123478-HxCDF	(0.0742)		0.0742	(0.00742)	(0.00742)	(0.00742)				
123678-HxCDF	(0.0731)		0.0731	(0.00731)	(0.00731)	(0.00731)				
234678-HxCDF	(0.0787)		0.0787	(0.00787)	(0.00787)	(0.00787)				
123789-HxCDF	(0.0901)		0.0901	(0.00901)	(0.00901)	(0.00901)				
1234678-HpCDF	0.626	J B	0.119	0.00626	0.00626	0.00626				
1234789-HpCDF	(0.136)		0.136	(0.00136)	(0.00136)	(0.00136)				
OCDF	1.23	J B	0.186	0.00123	0.000123	0.000368				
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			EMPC = 0, ND = 0		0.0584		0.0459		0.0486	
			EMPC = 0, ND = DL / 2		0.203		0.224		0.219	
			EMPC = 0, ND = DL		0.347		0.402		0.39	
			EMPC = 0, < J-level = 0		0.0127		0.00127		0.00381	
			EMPC = EMPC, ND = 0		0.0584		0.0459		0.0486	
			EMPC = EMPC, ND = DL / 2		0.203		0.224		0.219	
			EMPC = EMPC, ND = DL		0.347		0.402		0.39	
EMPC = EMPC, < J-level = 0		0.0127		0.00127		0.00381				


Sample ID: JW-SC402-C-130928**Method 1613B**

Client Data		Sample Data		Laboratory Data			
Name:	ANCHOR QEA	Matrix:	Solids	Lab Project ID:	A5975	Date Received:	01-Oct-2013
Project ID:	Jeld-Wen Former Nord Door site	Weight/Volume:	10.01 g	Lab Sample ID:	A5975_11402_DF_010RJ	Date Extracted:	08-Oct-2013
Date Collected:	28-Sep-2013	% Solids:	88.7 %	QC Batch No:	11402	Date Analyzed:	14-Oct-2013
		Split:	-	Dilution:	-	Time Analyzed:	06:12:46
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	0.106			ES 2378-TCDD	90.3	
12378-PeCDD	ND	0.135			ES 12378-PeCDD	90	
123478-HxCDD	ND	0.12			ES 123478-HxCDD	81.8	
123678-HxCDD	ND	0.124			ES 123678-HxCDD	81.7	
123789-HxCDD	ND	0.118			ES 123789-HxCDD	82.8	
1234678-HpCDD	1.61			J B	ES 1234678-HpCDD	86.6	
OCDD	11.5			B	ES OCDD	79.2	
2378-TCDF	0.117			J	ES 2378-TCDF	92.2	
12378-PeCDF	ND	0.0852			ES 12378-PeCDF	91.6	
23478-PeCDF	ND	0.0841			ES 23478-PeCDF	90.6	
123478-HxCDF	ND	0.0587			ES 123478-HxCDF	74.1	
123678-HxCDF	ND	0.0599			ES 123678-HxCDF	76.5	
234678-HxCDF	ND	0.0653			ES 234678-HxCDF	73.7	
123789-HxCDF	ND	0.0741			ES 123789-HxCDF	80.1	
1234678-HpCDF	0.609			J B	ES 1234678-HpCDF	79.9	
1234789-HpCDF	ND	0.112			ES 1234789-HpCDF	83.2	
OCDF	1.56			J B	ES OCDF	78	
Totals					Standard	CS/AS Recoveries	
Total TCDD	0.421		0.421		CS 37Cl-2378-TCDD	98.8	
Total PeCDD	ND	0.135	ND		CS 12347-PeCDD	96.3	
Total HxCDD	0.323		0.64		CS 12346-PeCDF	93.1	
Total HpCDD	3.57		3.57		CS 123469-HxCDF	89.8	
Total TCDF	0.484		0.763		CS 1234689-HpCDF	88.3	
Total PeCDF	0.407		0.619		AS 1368-TCDD	114	
Total HxCDF	0.406		0.659		AS 1368-TCDF	78.4	
Total HpCDF	1.6		1.6				
Total PCDD/Fs	20.3		21.3				
WHO-2005 TEQs							
TEQ: ND=0	0.0378		0.0378				
TEQ: ND=DL/2	0.203	0.171	0.203				
TEQ: ND=DL	0.369	0.342	0.369				



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Sample ID: JW-SC402-C-130928			TEQ Summary		Method 1613B		
Client Project Name: ANCHOR QEA			Matrix: Solids		Lab Sample ID: A5975_11402_DF_010RJ		
Client Project ID: Jeld-Wen Former Nord Door site			Weight/Volume: 10.01 g		QC Batch No.: 11402		
Date Collected: 28-Sep-2013			Split: -		Date Extracted: 08-Oct-2013		
Date Received: 01-Oct-2013			Dilution: -		Date Analyzed: 14-Oct-2013 06:12		
Lab Project No: A5975			Units: pg/g				
Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005	
2378-TCDD	(0.106)		0.106	(0.106)	(0.106)	(0.106)	
12378-PeCDD	(0.135)		0.135	(0.0675)	(0.135)	(0.135)	
123478-HxCDD	(0.12)		0.12	(0.012)	(0.012)	(0.012)	
123678-HxCDD	(0.124)		0.124	(0.0124)	(0.0124)	(0.0124)	
123789-HxCDD	(0.118)		0.118	(0.0118)	(0.0118)	(0.0118)	
1234678-HpCDD	1.61	J B	0.158	0.0161	0.0161	0.0161	
OCDD	11.5	B	0.291	0.0115	0.00115	0.00345	
2378-TCDF	0.117	J	0.0778	0.0117	0.0117	0.0117	
12378-PeCDF	(0.0852)		0.0852	(0.00426)	(0.00426)	(0.00256)	
23478-PeCDF	(0.0841)		0.0841	(0.0421)	(0.0421)	(0.0252)	
123478-HxCDF	(0.0587)		0.0587	(0.00587)	(0.00587)	(0.00587)	
123678-HxCDF	(0.0599)		0.0599	(0.00599)	(0.00599)	(0.00599)	
234678-HxCDF	(0.0653)		0.0653	(0.00653)	(0.00653)	(0.00653)	
123789-HxCDF	(0.0741)		0.0741	(0.00741)	(0.00741)	(0.00741)	
1234678-HpCDF	0.609	J B	0.111	0.00609	0.00609	0.00609	
1234789-HpCDF	(0.112)		0.112	(0.00112)	(0.00112)	(0.00112)	
OCDF	1.56	J B	0.182	0.00156	0.000156	0.000468	
 <p>2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 www.us.sgs.com</p>			TEQ Summaries				
			EMPC = 0, ND = 0		0.047	0.0352	0.0378
			EMPC = 0, ND = DL / 2		0.188	0.21	0.204
			EMPC = 0, ND = DL		0.33	0.386	0.37
			EMPC = 0, < J-level = 0		0.0115	0.00115	0.00345
			EMPC = EMPC, ND = 0		0.047	0.0352	0.0378
			EMPC = EMPC, ND = DL / 2		0.188	0.21	0.204
			EMPC = EMPC, ND = DL		0.33	0.386	0.37
EMPC = EMPC, < J-level = 0		0.0115	0.00115	0.00345			

Sample ID: JW-SC402-D-130928**Method 1613B**


Client Data		Sample Data		Laboratory Data			
Name:	ANCHOR QEA	Matrix:	Solids	Lab Project ID:	A5975	Date Received:	01-Oct-2013
Project ID:	Jeld-Wen Former Nord Door site	Weight/Volume:	10.07 g	Lab Sample ID:	A5975_11402_DF_011RJ	Date Extracted:	08-Oct-2013
Date Collected:	28-Sep-2013	% Solids:	86.1 %	QC Batch No:	11402	Date Analyzed:	14-Oct-2013
		Split:	-	Dilution:	-	Time Analyzed:	07:05:15
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	0.122			ES 2378-TCDD	86.9	
12378-PeCDD	ND	0.126			ES 12378-PeCDD	83.1	
123478-HxCDD	ND	0.135			ES 123478-HxCDD	74.6	
123678-HxCDD	ND	0.136			ES 123678-HxCDD	77.2	
123789-HxCDD	ND	0.129			ES 123789-HxCDD	79.7	
1234678-HpCDD	ND	0.194			ES 1234678-HpCDD	79.5	
OCDD	1.64			J B	ES OCDD	76.7	
2378-TCDF	ND	0.0798			ES 2378-TCDF	84.8	
12378-PeCDF	ND	0.0774			ES 12378-PeCDF	84	
23478-PeCDF	ND	0.0749			ES 23478-PeCDF	81.5	
123478-HxCDF	ND	0.0937			ES 123478-HxCDF	69.3	
123678-HxCDF	ND	0.0907			ES 123678-HxCDF	72.3	
234678-HxCDF	ND	0.0888			ES 234678-HxCDF	71.8	
123789-HxCDF	ND	0.106			ES 123789-HxCDF	76.1	
1234678-HpCDF	ND	0.126			ES 1234678-HpCDF	75.5	
1234789-HpCDF	ND	0.13			ES 1234789-HpCDF	74.9	
OCDF	ND	0.174			ES OCDF	74.3	
Totals					Standard	CS/AS Recoveries	
Total TCDD	0.313		0.313		CS 37Cl-2378-TCDD	93.7	
Total PeCDD	ND	0.126	ND		CS 12347-PeCDD	89.5	
Total HxCDD	0.183		0.183		CS 12346-PeCDF	84.3	
Total HpCDD	0.351		0.351		CS 123469-HxCDF	86.7	
					CS 1234689-HpCDF	82.5	
Total TCDF	ND	0.0798	ND		AS 1368-TCDD	90	
Total PeCDF	ND	0.0762	ND		AS 1368-TCDF	50.4	
Total HxCDF	ND	0.0944	ND				
Total HpCDF	ND	0.128	ND				
Total PCDD/Fs	2.49		2.49				
WHO-2005 TEQs							
TEQ: ND=0	0.000492		0.000492				
TEQ: ND=DL/2	0.182	0.182	0.182				
TEQ: ND=DL	0.364	0.363	0.364				



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Sample ID: JW-SC402-D-130928			TEQ Summary		Method 1613B	
Client Project Name: ANCHOR QEA			Matrix: Solids		Lab Sample ID: A5975_11402_DF_011RJ	
Client Project ID: Jeld-Wen Former Nord Door site			Weight/Volume: 10.07 g		QC Batch No.: 11402	
Date Collected: 28-Sep-2013			Split: -		Date Extracted: 08-Oct-2013	
Date Received: 01-Oct-2013			Dilution: -		Date Analyzed: 14-Oct-2013 07:05	
Lab Project No: A5975			Units: pg/g			
Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(0.122)		0.122	(0.122)	(0.122)	(0.122)
12378-PeCDD	(0.126)		0.126	(0.063)	(0.126)	(0.126)
123478-HxCDD	(0.135)		0.135	(0.0135)	(0.0135)	(0.0135)
123678-HxCDD	(0.136)		0.136	(0.0136)	(0.0136)	(0.0136)
123789-HxCDD	(0.129)		0.129	(0.0129)	(0.0129)	(0.0129)
1234678-HpCDD	(0.194)		0.194	(0.00194)	(0.00194)	(0.00194)
OCDD	1.64	J B	0.317	0.00164	0.000164	0.000492
2378-TCDF	(0.0798)		0.0798	(0.00798)	(0.00798)	(0.00798)
12378-PeCDF	(0.0774)		0.0774	(0.00387)	(0.00387)	(0.00232)
23478-PeCDF	(0.0749)		0.0749	(0.0375)	(0.0375)	(0.0225)
123478-HxCDF	(0.0937)		0.0937	(0.00937)	(0.00937)	(0.00937)
123678-HxCDF	(0.0907)		0.0907	(0.00907)	(0.00907)	(0.00907)
234678-HxCDF	(0.0888)		0.0888	(0.00888)	(0.00888)	(0.00888)
123789-HxCDF	(0.106)		0.106	(0.0106)	(0.0106)	(0.0106)
1234678-HpCDF	(0.126)		0.126	(0.00126)	(0.00126)	(0.00126)
1234789-HpCDF	(0.13)		0.13	(0.0013)	(0.0013)	(0.0013)
OCDF	(0.174)		0.174	(0.000174)	(0.0000174)	(0.0000522)
 <p>2714 Exchange Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 www.us.sgs.com</p>			TEQ Summaries			
			EMPC = 0, ND = 0	0.00164	0.000164	0.000492
			EMPC = 0, ND = DL / 2	0.16	0.19	0.182
			EMPC = 0, ND = DL	0.319	0.38	0.364
			EMPC = 0, < J-level = 0	0	0	0
			EMPC = EMPC, ND = 0	0.00164	0.000164	0.000492
			EMPC = EMPC, ND = DL / 2	0.16	0.19	0.182
			EMPC = EMPC, ND = DL	0.319	0.38	0.364
EMPC = EMPC, < J-level = 0	0	0	0			

METHOD 1613B**PCDD/F ONGOING PRECISION AND RECOVERY (OPR)****FORM 8A**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
 Instrument ID: MM1 GC Column ID: ZB-5ms
 VER Data Filename: 131013P2-02 Analysis Date: 13-OCT-2013 23:12:25
 Lab ID: OPR1_11402_DFRJ

NATIVE ANALYTES	SPIKE CONC.	CONC. FOUND	RANGE (ng/mL)		OK
2,3,7,8-TCDD	10	9.99	6.7	- 15.8	Y
1,2,3,7,8-PeCDD	50	48.2	35	- 71	Y
1,2,3,4,7,8-HxCDD	50	49.6	35	- 82	Y
1,2,3,6,7,8-HxCDD	50	51.9	38	- 67	Y
1,2,3,7,8,9-HxCDD	50	48	32	- 81	Y
1,2,3,4,6,7,8-HpCDD	50	50.5	35	- 70	Y
OCDD	100	103	78	- 144	Y
2,3,7,8-TCDF	10	10.8	7.5	- 15.8	Y
1,2,3,7,8-PeCDF	50	46.5	40	- 67	Y
2,3,4,7,8-PeCDF	50	49	34	- 80	Y
1,2,3,4,7,8-HxCDF	50	50.3	36	- 67	Y
1,2,3,6,7,8-HxCDF	50	50.1	42	- 65	Y
2,3,4,6,7,8-HxCDF	50	49.1	35	- 78	Y
1,2,3,7,8,9-HxCDF	50	50	39	- 65	Y
1,2,3,4,6,7,8-HpCDF	50	50.6	41	- 61	Y
1,2,3,4,7,8,9-HpCDF	50	52.4	39	- 69	Y
OCDF	100	109	63	- 170	Y

Contract-required concentration limits for OPR as specified in Table 6,
 Method 1613. 10/94

Processed: 15 Oct 2013 09:38

Analyst: MC

REVIEWED

By Todd Vilen at 7:16 am, Oct 18, 2013

METHOD 1613B**PCDD/F ONGOING PRECISION AND RECOVERY (OPR)****FORM 8B**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
 Instrument ID: MM1 GC Column ID: ZB-5ms
 VER Data Filename: 131013P2-02 Analysis Date: 13-OCT-2013 23:12:25
 Lab ID: OPR1_11402_DFRJ

LABELED ANALYTES	SPIKE CONC.	CONC. FOUND	RANGE (ng/mL)			OK
13C-2,3,7,8-TCDD	100	98.7	20	-	175	Y
13C-1,2,3,7,8-PeCDD	100	98.9	21	-	227	Y
13C-1,2,3,4,7,8-HxCDD	100	87.2	21	-	193	Y
13C-1,2,3,6,7,8-HxCDD	100	87.3	25	-	163	Y
13C-1,2,3,7,8,9-HxCDD	100	87.5	26	-	166	Y
13C-1,2,3,4,6,7,8-HpCDD	100	88.4	26	-	166	Y
13C-OCDD	200	168	26	-	397	Y
13C-2,3,7,8-TCDF	100	98.2	22	-	152	Y
13C-1,2,3,7,8-PeCDF	100	102	21	-	192	Y
13C-2,3,4,7,8-PeCDF	100	102	13	-	328	Y
13C-1,2,3,4,7,8-HxCDF	100	79	19	-	202	Y
13C-1,2,3,6,7,8-HxCDF	100	82.3	21	-	159	Y
13C-2,3,4,6,7,8-HxCDF	100	82.5	22	-	176	Y
13C-1,2,3,7,8,9-HxCDF	100	85.1	17	-	205	Y
13C-1,2,3,4,6,7,8-HpCDF	100	82.7	21	-	158	Y
13C-1,2,3,4,7,8,9-HpCDF	100	84.2	20	-	186	Y
13C-OCDF	200	162	26	-	397	Y
CLEANUP STANDARD						
37Cl-2,3,7,8-TCDD	40	41.5	12.4	-	76.4	Y

Contract-required concentration limits for OPR as specified in Table 6,
 Method 1613. 10/94

Processed: 15 Oct 2013 09:38 Analyst: MC



Sample Receipt Notification

2714 Exchange Drive
 Wilmington, NC 28405 USA
 Tel: 910 794-1613
 Toll Free: 866 846-8290
 Fax: 910 794-3919

Project Manager: Amy Boehm
Receipt Date & Time: 01-Oct-13 at 09:45
AP Project name: A5975
Requested TAT: 21 days
Projected due date: 22-Oct-13
Matrix: Sediment
Phone#: 910-794-1613
Email Address: Amy.Boehm@sgs.com

Company Contact: Delaney Peterson
Company: ANCHOR QEA
Project Name & Site: Jeld-Wen Former Nord Door site
Project PO#: 120909-01.01
QAAP/Contract #: INV → Jeld - Wen
Requested Analysis: D/F
Phone#: 206.903.3396
Email Address: dpeterson@anchorqea.com

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
JW-SC401-A-130928	A5975_001	SED	2 \	28-Sep-13	09:30	5.9	1	7968 0274 2418
JW-SC401-B-130928	A5975_002	SED	2 \	28-Sep-13	09:35	5.9	1	7968 0274 2418
JW-SC401-C-130928	A5975_003	SED	2 \	28-Sep-13	09:40	5.9	1	7968 0274 2418
JW-SC401-D-130928	A5975_004	SED - ARCHIVE	1 \	28-Sep-13	09:45	5.9	1	7968 0274 2418
JW-SC401-E-130928	A5975_005	SED - ARCHIVE	1 \	28-Sep-13	09:50	5.9	1	7968 0274 2418
JW-SC401-F-130928	A5975_006	SED - ARCHIVE	1 \	28-Sep-13	09:55	5.9	1	7968 0274 2418
JW-SC401-G-130928	A5975_007	SED - ARCHIVE	1 \	28-Sep-13	10:00	5.9	1	7968 0274 2418
JW-SC402-A-130928	A5975_008	SED	2 \	28-Sep-13	11:00	5.9	1	7968 0274 2418
JW-SC402-B-130928	A5975_009	SED	2 \	28-Sep-13	11:05	5.9	1	7968 0274 2418
JW-SC402-C-130928	A5975_010	SED	2 \	28-Sep-13	11:10	5.9	1	7968 0274 2418
JW-SC402-D-130928	A5975_011	SED	2 \	28-Sep-13	01:15	5.9	1	7968 0274 2418
JW-SC402-E-130928	A5975_012	SED - ARCHIVE	1 \	28-Sep-13	11:20	5.9	1	7968 0274 2418
JW-SC402-F-130928	A5975_013	SED - ARCHIVE	1 \	28-Sep-13	11:25	5.9	1	7968 0274 2418
JW-SC402-G-130928	A5975_014	SED - ARCHIVE	1 \	28-Sep-13	11:30	5.9	1	7968 0274 2418

Preservation Type: Ice - Good Condition **Sample Seals:** No

Notes/Comments: 11/13/13 17 + Homologs, w/ to T&F's

Samples received intact
 Did NOT receive a container for JW-SC401-H-130928. -

OPR

Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.



Chain of Custody Record & Laboratory Analysis Request

Anchor QEA
 720 Olive Way, Suite 190 of 362
 Seattle, Washington 98101
 Phone 206.287.9130
 Fax 206.287.9131

05975

Turnaround Requested: Standard Anchor Contact: Delaney Peterson Page | of |

Lab Contact: Amy B.		Project: Jeld-Wen Former Nord Door site			Analyses Requested							Notes/ Comments:
Lab: SGS Analytical Perspectives		Proj. No.: 120909-01.01			TOC	Dioxin/Furan Congeners	ARCHIVE					
Address: 5500 Business Drive		Sampler: DG, DP										
City: Wilmington, NC 28405		Shipping Method:										
Phone: 910-350-1903		AirBill #:										
Fax:												
Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers								
JW-SC401-A-130928	9.28.13	0930	SED	2		X	X					
JW-SC401-B-130928		0935		2		X	X					
JW-SC401-C-130928		0940		2		X	X					
JW-SC401-D-130928		0945		1			X					
JW-SC401-E-130928		0950		1			X					
JW-SC401-F-130928		0955		1			X					
JW-SC401-G-130928		1000		1			X					
JW-SC401-H-130928		1005		1			X					
JW-SC402-A-130928		1100		2		X	X					
JW-SC402-B-130928		1105		2		X	X					
JW-SC402-C-130928		1110		2		X	X					
JW-SC402-D-130928		1115		2		X	X					
JW-SC402-E-130928		1120		1			X					
JW-SC402-F-130928		1125		1			X					
JW-SC402-G-130928		1130		1			X					

Relinquished: (Signature)	Relinquished: (Signature)	Relinquished: (Signature)	Special Instructions/Notes
Printed Name: D. Peterson	Printed Name:	Printed Name:	
Company: AP	Company:	Company:	
Date/Time: 9/30/13 1300	Date/Time:	Date/Time:	
Received By:	Received By:	Received By:	# of Coolers: 1 Cooler Temp(s): 5.9° COC Seals Intact? No Bottles Intact? Yes
Printed Name: Barbara Hager	Printed Name:	Printed Name:	
Company: SGS AP	Company:	Company:	
Date/Time: 1-Oct-13 0945	Date/Time:	Date/Time:	



Project Initiation Form

Project Number: A5975Initiation Date: 03-Oct-13Client Name: ANCHOR QEASample Matrix: SedimentAnalysis Method: 1613 PCDD/FTAT: 21 daysProject Manager: Amy

Special Instructions

1613 w/ OPR

Reporting Instructions

1613 17 + Homologs
WHO TEFs
Anchor-Equis EDDPM Initials: akornegay Date: 03-Oct-2013



1613 PCDD/F

Solids

Project # A5975 Batch # 11402 Extract Init/Date: 10/10/13 ASECS Init/Date: 10/10/13 Transfer Init/Date: 10-11-13

AP Sample ID	Client Sample ID	Extract WT (g)	SDS # 702	RV		(Td) 20-1	ASECS #	Observations
				Initials	#			
A5975_11402_001	JW-SC401-A-130928	12.81	3	MK	3	OK	6	Dark Brown Moist Gritty Soil
A5975_11402_002	JW-SC401-B-130928	12.28	4	MK	4	OK	7	See 001
A5975_11402_003	JW-SC401-C-130928	12.87	5	MK	1	OK	8	See 001
A5975_11402_008	JW-SC402-A-130928	16.86	6	MK	2	OK	10	Moist Dark Brown Mud
A5975_11402_009	JW-SC402-B-130928	12.06	7	MK	3	OK	15	Dark GY Grit, Moist
A5975_11402_010	JW-SC402-C-130928	11.28	8	MK	4	OK	14	See 009
A5975_11402_011	JW-SC402-D-130928	11.70	9	MK	1	OK	13	See 009
MB1_11402	Method Blank	10.00	1	MK	1	OK	4	Hydro matrix to 08/32013
OPR1_11402	0_11402_OPR001	10.00	2	MK	2	OK	5	Hydro matrix 08/32013
						10/10/13		EE 14 10/8/13

Special Instructions	Cycle Time	Supply IDs
1613 w/ OPR	Start 4:30pm Stop 10:50am	Toluene D1847 Acid Silica 10082013 CH ₂ CL ₂ D1901 Base Silica 09252013 Sand NA HydroMatrix 08132013 Florisil 10082013 Tetradecane 04112013 Hexane 050600 H ₂ SO ₄ 08272013 Silica 09212013 Agilent K Silicate 10082013



1613 PCDD/F

Solid

Project # A5975 Batch # 11402

Inter-Department Communication Sheet

RE AD 18 OCT 13

Special Instructions

1613 w/ OPR

% Solids

ANALYTICAL PERSPECTIVES

Project: A5975Batch #: 11402Procedure:

- Tare Balance.
- Add boat and weigh. Record "Boat Wt."
- Add the sample (2-10 g) to the boat and record "Wet Wt. + Boat Wt." (total).
- Dry in oven overnight @ 107° C.
- Tare Balance.
- Return dish to toplayer and record "Residue + Boat Wt."

AP Sample ID	Boat Wt.	Wet Wt. + Boat Wt.	Chem/Date	Residue + Boat Wt.	Chem/Date	10 g _{cc} Comments
001	1.34	4.27	AN	3.63	Jan 10/4/13	- 12.79
002	1.36	4.10	AN	3.61	Jan 10/4/13	- 12.18
003	1.35	7.57	AN	6.21	Jan 10/4/13	- 12.80
008	1.35	7.79	AN	5.19	Jan 10/4/13	- 16.77
009	1.36	4.74	AN	4.17	Jan 10/4/13	- 12.03
010	1.36	4.29	AN	3.96	Jan 10/4/13	- 11.27
011	1.32	5.41	AN	4.84	Jan 10/4/13	- 11.62
			10/3/13			



Wt. Volume Results for Extraction Batch 11402

Batch Project #'s:	<u>A5975</u> <u>A5976</u> <u>A5977</u>	Comments:
---------------------------	--	------------------

AP Sample ID	Boat WT.	Wet Wt. + Boat Wt.	Residue+ Boat Wt.	% Solid	Average % Solid	RSD	Qtest Ratio (if Applicable)	Dry Wt. Equiv.	Extracted Wt.	Final Wt.
A5975_001	1.34	4.27	3.63	78.16%	78.16%			12.79	12.81	10.01
A5975_002	1.36	4.1	3.61	82.12%	82.12%			12.18	12.28	10.08
A5975_003	1.35	7.57	6.21	78.14%	78.14%			12.8	12.87	10.06
A5975_008	1.35	7.79	5.19	59.63%	59.63%			16.77	16.86	10.05
A5975_009	1.36	4.74	4.17	83.14%	83.14%			12.03	12.06	10.03
A5975_010	1.36	4.29	3.96	88.74%	88.74%			11.27	11.28	10.01
A5975_011	1.32	5.41	4.84	86.06%	86.06%			11.62	11.7	10.07
A5976_001	1.36	6.02	5.47	88.20%	88.20%			11.34	11.49	10.13
A5976_002	1.35	4.79	4.2	82.85%	82.85%			12.07	12.09	10.02
A5976_003	1.33	4.81	4.33	86.21%	86.21%			11.6	11.66	10.05
A5976_004	1.34	4.82	4.37	87.07%	87.07%			11.49	11.52	10.03
A5977_001	1.36	4.55	2.42	33.23%	33.23%			30.09	30.11	10.01

Project #		Batch #		1613 PCDD/F		Solids	
A5975		11402					
SPIKE PROFILE PCDD/Fs							
Analyte	Spike Compounds	Spiked Amount	Spiked Volume	Solution Conc.	Split Factor	Final Volume	Final Solvent
PCDD/F	ES	2 ng	200 uL	10 pg/uL	1	20 uL	Td
	AS/CS	2 ng	200 uL	10 pg/uL	1	20 uL	Td
	Ax BCS3	0.2 ng	200 uL	1 pg/uL	1	20 uL	Td
	JS	2 ng	200 uL	10 pg/uL	1	20 uL	Td
	Td Batch CS3		20 uL			20 uL	Td
Spiker Initials/Date: MA 10/8/12 MA 10/8/12 MA 10/8/12 MA 10/10/13 MA 10/10/13 MA 10/11/13							
AP Sample ID	Client Sample ID	PCDD/F ES	PCDD/F Ax-A	PCDD/F Ax-B	PCDD/F CS	PCDD/F AS	PCDD/F JS
		Amount: 200 uL	Amount: 200 uL	Amount: 20 uL	Amount: 200 uL	Amount: 200 uL	Amount: 200 uL
		Observer Initials	Observer Initials	Observer Initials	Observer Initials	Observer Initials	Observer Initials
A5975_11402_001	JW-SC401-A-130928	mdl	—	—	mdl	mdl	mdl
A5975_11402_002	JW-SC401-B-130928	mdl	—	—	mdl	mdl	mdl
A5975_11402_003	JW-SC401-C-130928	mdl	—	—	mdl	mdl	mdl
A5975_11402_008	JW-SC402-A-130928	mdl	—	—	mdl	mdl	mdl
A5975_11402_009	JW-SC402-B-130928	mdl	—	—	mdl	mdl	mdl
A5975_11402_010	JW-SC402-C-130928	mdl	—	—	mdl	mdl	mdl
A5975_11402_011	JW-SC402-D-130928	mdl	—	—	mdl	mdl	mdl
MB1_11402	Method Blank	mdl	—	—	mdl	mdl	mdl
OPR1_11402	0_11402_OPR001	mdl	mdl	mdl	mdl	mdl	mdl
		10-8-13	10-8-13	10-8-13	10-10-13	10-10-13	10-11-13
Standard Information							
Std. Type		ES	Ax-A	Ax-B	CS	AS	JS
Spike ID		09052013	11012012C		11012012Ed1	1102012C	11612012 B
SIL #		13-58-2	13-56-1	13-13-1	13-32-2	13-43-1	13-43-3
Concentration		10	1	10	4	10	10
Units		pg/uL	pg/uL	pg/uL	pg/uL	pg/uL	pg/uL
Exp. Date		9-15-14	8-18-14	3-12-15	6-12-14	7-19-14	7-19-14
Spike amount (uL)		200	200	20	200	200	200

RECEIVED: [Signature] 11/9/13
 TRANSFER: [Signature] 10-11-13



Sample Receipt Notification

2714 Exchange Drive
 Wilmington, NC 28405 USA
 Tel: 910 794-1613
 Toll Free: 866 846-8290
 Fax: 910 794-3919

Project Manager: Amy Boehm
Receipt Date & Time: 01-Oct-13 at 09:45
AP Project name: A5975
Requested TAT: 21 days
Projected due date: 22-Oct-13
Matrix: Sediment
Phone#: 910-794-1613
Email Address: Amy.Boehm@sgs.com

Company Contact: Delaney Peterson
Company: ANCHOR QEA
Project Name & Site: Jeld-Wen Former Nord Door site
Project PO#: 120909-01.01
QAAP/Contract #: INV → Jeld - Wen
Requested Analysis: D/F
Phone#: 206.903.3396
Email Address: dpeterson@anchorqea.com

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Sampling Date	Sampling Time	Received Temp	Container #	Shipping #
JW-SC401-A-130928	A5975_001	SED	2 \	28-Sep-13	09:30	5.9	1	7968 0274 2418
JW-SC401-B-130928	A5975_002	SED	2 \	28-Sep-13	09:35	5.9	1	7968 0274 2418
JW-SC401-C-130928	A5975_003	SED	2 \	28-Sep-13	09:40	5.9	1	7968 0274 2418
JW-SC401-D-130928	A5975_004	SED - ARCHIVE	1 \	28-Sep-13	09:45	5.9	1	7968 0274 2418
JW-SC401-E-130928	A5975_005	SED - ARCHIVE	1 \	28-Sep-13	09:50	5.9	1	7968 0274 2418
JW-SC401-F-130928	A5975_006	SED - ARCHIVE	1 \	28-Sep-13	09:55	5.9	1	7968 0274 2418
JW-SC401-G-130928	A5975_007	SED - ARCHIVE	1 \	28-Sep-13	10:00	5.9	1	7968 0274 2418
JW-SC402-A-130928	A5975_008	SED	2 \	28-Sep-13	11:00	5.9	1	7968 0274 2418
JW-SC402-B-130928	A5975_009	SED	2 \	28-Sep-13	11:05	5.9	1	7968 0274 2418
JW-SC402-C-130928	A5975_010	SED	2 \	28-Sep-13	11:10	5.9	1	7968 0274 2418
JW-SC402-D-130928	A5975_011	SED	2 \	28-Sep-13	01:15	5.9	1	7968 0274 2418
JW-SC402-E-130928	A5975_012	SED - ARCHIVE	1 \	28-Sep-13	11:20	5.9	1	7968 0274 2418
JW-SC402-F-130928	A5975_013	SED - ARCHIVE	1 \	28-Sep-13	11:25	5.9	1	7968 0274 2418
JW-SC402-G-130928	A5975_014	SED - ARCHIVE	1 \	28-Sep-13	11:30	5.9	1	7968 0274 2418

Preservation Type: Ice - Good Condition **Sample Seals:** No

Notes/Comments:
 M1613 B 17 + Homologs, w/ to T&B's
 Samples received intact
 Did NOT receive a container for JW-SC401-H-130928. -

(OPR)

Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.

Received by: Barbara Hager

Logged in by: Barbara Hager

QC'd by: 
 SGS Analytical Perspectives



Chain of Custody Record & Laboratory Analysis Request

Anchor QEA 40 of 362
 720 Olive Way, Suite 1900
 Seattle, Washington 98101
 Phone 206.287.9130
 Fax 206.287.9131

05975

Turnaround Requested: Standard

Anchor Contact: Delaney Peterson

Page | of |

Lab Contact: Amy B.		Project: Jeld-Wen Former			Analyses Requested							Notes/ Comments:
Lab: SGS Analytical Perspectives		Nord Door site			TOC	Dioxin/Furan Congeners	ARCHIVE					
Address: 5500 Business Drive		Proj. No.: 120909-01.01										
City: Wilmington, NC 28405		Sampler: DG, DP										
Phone: 910-350-1903		Shipping Method:										
Fax:		AirBill #:										
Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers								
JW-SC401-A-130928	9.28.13	0930	SED	2		X	X					
JW-SC401-B-130928		0935		2		X	X					
JW-SC401-C-130928		0940		2		X	X					
JW-SC401-D-130928		0945		1			X					
JW-SC401-E-130928		0950		1			X					
JW-SC401-F-130928		0955		1			X					
JW-SC401-G-130928		1000		1			X					
JW-SC401-H-130928		1005		1			X					
JW-SC402-A-130928		1100		2		X	X					
JW-SC402-B-130928		1105		2		X	X					
JW-SC402-C-130928		1110		2		X	X					
JW-SC402-D-130928		1115		2		X	X					
JW-SC402-E-130928		1120		1			X					
JW-SC402-F-130928		1125		1			X					
JW-SC402-G-130928	↓	1130	↓	1			X					

Relinquished: (Signature)	Relinquished: (Signature)	Relinquished: (Signature)	Special Instructions/Notes	
Printed Name: D. Peterson	Printed Name:	Printed Name:		
Company: AP	Company:	Company:		
Date/Time: 9/30/13 1300	Date/Time:	Date/Time:		
Received By:	Received By:	Received By:	# of Coolers: 1	Cooler Temp(s): 5.9p
Printed Name: Barbara Hager	Printed Name:	Printed Name:		
Company: SGS AP	Company:	Company:		
Date/Time: 1-Oct-13 0945	Date/Time:	Date/Time:		
			COC Seals Intact? NO	Bottles Intact? YES

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A5975_001

JW-SC401-A-130928

1 of 2

SLoc: F-2

JW-SC401-A-130928

Sampler: EM/DG

A5975_002

JW-SC401-B-130928

SED

JW-SC401-B-130928

Dioxin/Furan

Sampler: EM/DG

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A5975_003

JW-SC401-C-130928

1 of 2
Sloc: F-2

JW-SC401-C-130928

Sampler: EMDC

A5975_004

JW-SC401-D-130928

GED - ARCHIVE

1 of 1
Sloc: F-2

JW-SC401- D -130928

Sampler: EMDC

45 of 362

A5975_005

JW-SC401-E-130928

1 of 1

SLoc: F-2

ARCHIVE

JW-SC401-E -130928

Sampler: EM10G

A5975_006

JW-SC401-F-130928

SED - ARCHIVE

JW-SC401-F -130928

Sampler: Depo

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A5975_007

1-G-130928

CHIVE

1 of 1

SLoc: F-2

JW-SC401- G -130928

Sampler: DP/DG

A5975_008

JW-SC402-A-130928

SED

Sample Name: JW-SC402-A-130928

Archive

Archive: none

Sampler: DP/DG

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A5975_009

JW-SC402-B-130928

1 of 2

SED

Slac: F

Name: JW-SC402-B-130928

Archive

0000

Sampler: 0800

A5975_010

JW-SC402-C-130928

1 of 2

SED

Slac: F

Name: JW-SC402-C-130928

Archive

0000

Sampler: 0800

A5975_011

JW-SC402-D-130928

1 of 2

SLoc: F-2

Time: 11:15

JW-SC402-D-130928

Sampler: DP/DG

A5975_012

JW-SC402-E-130928

SED - ARCHIVE

130928/13

Time: 11:15

Name: JW-SC402- E -130928

Archive

Sampler: none

Sampler: DP/DG

Sampler: none

49 of 362

A5975_013

JW-SC402-F-130928

1 of 1

Sloc: F3

SED - ARCHIVE

013

Sample Name: JW-SC402-F -130928

Sample: none
Archive

Sampler: F3

A5975_014

JW-SC402-G-130928

1 of 1

Sloc: F3

SED - ARCHIVE

014

Sample Name: JW-SC402-G -130928

Sample: none
Archive

Sampler: F3

SGS Analytical Perspectives — Run Log

Project: A5975_11402_DF

Instrument: MM1 (AutoSpec-Ultima)

MS Experiment: DF_CL4-8B

GC Program: DB5MS_60M

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
1	131013P2-01	7	CS3_131013_DF_PA	1.00	11012012A	MDC	003-883	13-OCT-2013	22:19:57
2	131013P2-02	17	OPR1_11402_DFRJ	1.00	0_11402_OPR001	MDC	313-593	13-OCT-2013	23:12:25
3	131013P2-03	15	SBS_131013_DF_PB	1.00	solvent blank	MDC	789-171	14-OCT-2013	00:04:51
4	131013P2-04	16	MB1_11402_DF_SDSRJ	10.00	Method Blank	MDC	348-705	14-OCT-2013	00:57:21
5	131013P2-05	18	A5975_11402_DF_001RJ	10.01	JW-SC401-A-130928	MDC	639-644	14-OCT-2013	01:49:59
6	131013P2-06	19	A5975_11402_DF_002RJ	10.08	JW-SC401-B-130928	MDC	154-115	14-OCT-2013	02:42:34
7	131013P2-07	20	A5975_11402_DF_003RJ	10.06	JW-SC401-C-130928	MDC	356-778	14-OCT-2013	03:35:03
8	131013P2-08	21	A5975_11402_DF_008RJ	10.05	JW-SC402-A-130928	MDC	123-973	14-OCT-2013	04:27:38
9	131013P2-09	22	A5975_11402_DF_009RJ	10.03	JW-SC402-B-130928	MDC	089-341	14-OCT-2013	05:20:12
10	131013P2-10	23	A5975_11402_DF_010RJ	10.01	JW-SC402-C-130928	MDC	308-442	14-OCT-2013	06:12:46
11	131013P2-11	24	A5975_11402_DF_011RJ	10.07	JW-SC402-D-130928	MDC	915-861	14-OCT-2013	07:05:15
12	131013P2-12	15	SBS_131013_DF_PC	1.00	solvent blank	MDC	170-498	14-OCT-2013	07:57:52
13	131013P2-13	7	CS3_131013_DF_PB	1.00	11012012A	MDC	287-125	14-OCT-2013	08:50:25

REVIEWED*By Michael D H Chu at 10:11 am, Oct 15, 2013***REVIEWED***By Todd Vilen at 7:25 am, Oct 18, 2013*

Lab ID: MB1_11402_DF_SDSRJ

Acq'd: 14 Oct 2013 00:57 MDC

Wt/Vol: 10.00 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: Method Blank A5975

UTP: 15-Oct-2013 09:37 MDC

J-level: 0.5 pg/g Split: 1

Checkcode: 348-705-QDP

Datafile: 131013P2-04

Report: 15 Oct 2013 09:38 MC

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37CI)

Name	Act RT	QC	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Conc.	Noise	DL
2378-TCDD	NotFnd		1.0009	-		-	-	-	1.18	-	5143	0.0903
12378-PeCDD	NotFnd		1.0007	-		-	-	-	1.07	-	4306	0.0774
123478-HxCDD	NotFnd		1.0004	-		-	-	-	1.19	-	3897	0.0702
123678-HxCDD	NotFnd		1.0039	-		-	-	-	1.19	-	3897	0.0755
123789-HxCDD	38.87		1.0127	1.0126	-0.2	4.22E+04	1.00	N	1.12	0.077	3897	0.0707
1234678-HpCDD	42.57		1.0004	1.0004	0	2.82E+05	1.00	Y	1.08	0.58	4996	0.0985
OCDD	46.30		1.0003	1.0004	+0.3	7.96E+05	0.94	Y	1.14	2.37	6070	0.215

2378-TCDF	NotFnd		1.0009	-		-	-	-	1.10	-	4379	0.0509
12378-PeCDF	NotFnd		1.0006	-		-	-	-	1.17	-	5142	0.0543
23478-PeCDF	NotFnd		1.0005	-		-	-	-	1.14	-	5142	0.0533
123478-HxCDF	NotFnd		1.0005	-		-	-	-	1.34	-	4006	0.0461
123678-HxCDF	NotFnd		1.0005	-		-	-	-	1.23	-	4006	0.0467
234678-HxCDF	NotFnd		1.0005	-		-	-	-	1.26	-	4006	0.0471
123789-HxCDF	NotFnd		1.0005	-		-	-	-	1.23	-	4006	0.0561
1234678-HpCDF	41.30		1.0004	1.0007	+0.7	6.62E+04	1.38	N	1.42	0.0929	4867	0.0682
1234789-HpCDF	NotFnd		1.0003	-		-	-	-	1.39	-	4867	0.0807
OCDF	46.54		1.0004	1.0003	-0.3	1.42E+05	0.83	Y	1.11	0.295	4956	0.124

Name	Act RT		Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Rec. %
ES 2378-TCDD	27.42		1.0280	1.0281	+0.2	1.16E+08	0.79	Y	1.02	92.5
ES 12378-PeCDD	33.72		1.2640	1.2647	+1.1	1.05E+08	1.59	Y	0.92	93.4
ES 123478-HxCDD	38.38		0.9909	0.9909	0	8.72E+07	1.20	Y	1.02	80.8
ES 123678-HxCDD	38.52		0.9943	0.9943	0	8.83E+07	1.19	Y	1.01	83
ES 123789-HxCDD	38.86		1.0030	1.0031	+0.2	9.83E+07	1.19	Y	1.14	81.6
ES 1234678-HpCDD	42.55		1.0984	1.0985	+0.2	8.97E+07	1.07	Y	1.02	83.2
ES OCDD	46.28		1.1947	1.1948	+0.2	1.17E+08	0.90	Y	0.72	77.2

ES 2378-TCDF	26.42		1.0617	1.0620	+0.4	1.84E+08	0.74	Y	1.01	90.1
ES 12378-PeCDF	31.99		1.2848	1.2855	+1.0	1.71E+08	1.56	Y	0.89	95.4
ES 23478-PeCDF	33.31		1.3381	1.3388	+1.0	1.75E+08	1.59	Y	0.91	95.2
ES 123478-HxCDF	37.21		0.9606	0.9606	0	1.21E+08	0.52	Y	1.53	75
ES 123678-HxCDF	37.38		0.9649	0.9649	0	1.42E+08	0.53	Y	1.73	78.2
ES 234678-HxCDF	38.16		0.9851	0.9852	+0.2	1.31E+08	0.52	Y	1.61	77
ES 123789-HxCDF	39.28		1.0139	1.0139	0	1.20E+08	0.54	Y	1.39	81.9
ES 1234678-HpCDF	41.27		1.0654	1.0654	0	1.00E+08	0.45	Y	1.20	79.3
ES 1234789-HpCDF	43.16		1.1140	1.1142	+0.5	9.18E+07	0.46	Y	1.07	81.3
ES OCDF	46.53		1.2010	1.2011	+0.2	1.74E+08	0.92	Y	1.04	78.8

Lab ID: MB1_11402_DF_SDSRJ

Acq'd: 14 Oct 2013 00:57 MDC

Wt/Vol: 10.00 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: Method Blank A5975

UTP: 15-Oct-2013 09:37 MDC

J-level: 0.5 pg/g Split: 1

Checkcode: 348-705-QDP

Datafile: 131013P2-04

Report: 15 Oct 2013 09:38 MC

StdS (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37CI)

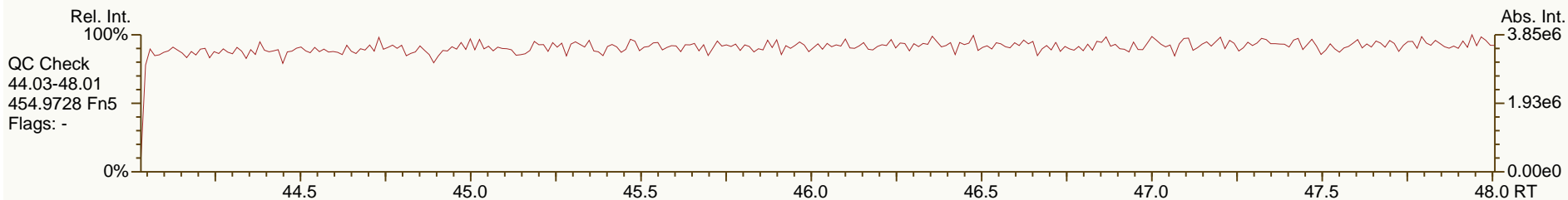
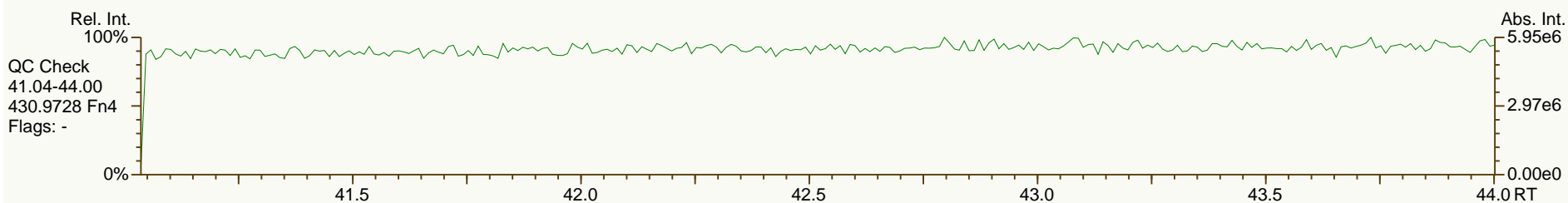
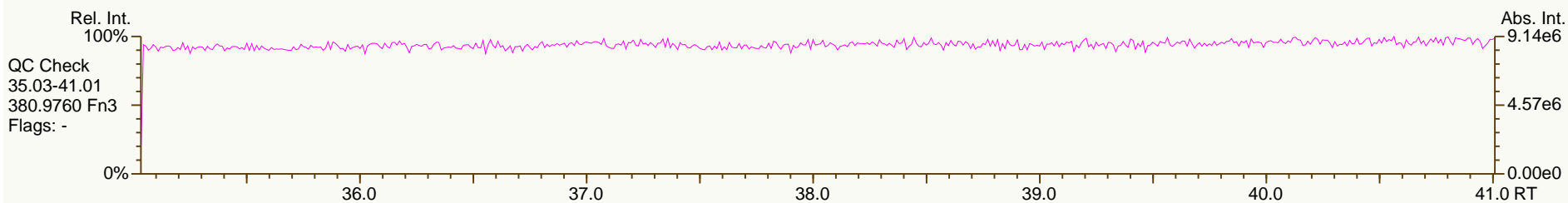
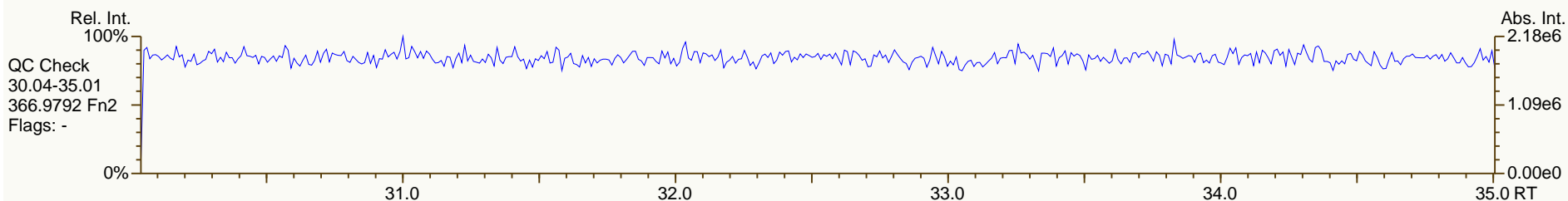
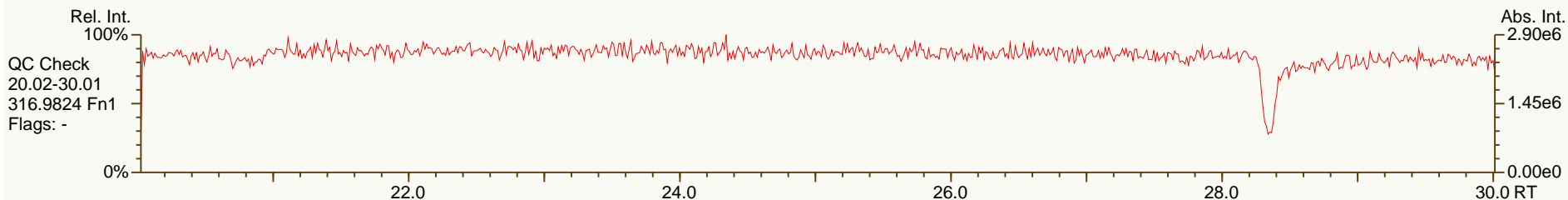
Name	Act RT	QC	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Rec. %
JS 1234-TCDD	26.67		-	-	-	1.22E+08	0.81	Y	-	-
JS 1234-TCDF	24.88		-	-	-	2.03E+08	0.77	Y	-	-
JS 123467-HxCDD	38.74		-	-	-	5.27E+07	1.21	Y	-	-
CS 37C1-2378-TCDD	27.44		1.0289	1.0291	+0.3	5.25E+07	n/a	-	1.13	94.8
CS 12347-PeCDD	33.13		1.2418	1.2423	+0.8	1.06E+08	1.59	Y	0.88	99.1
CS 12346-PeCDF	31.36		1.2599	1.2604	+0.7	1.74E+08	1.56	Y	0.90	95.4
CS 123469-HxCDF	37.74		0.9743	0.9744	+0.2	1.34E+08	0.53	Y	1.40	90.5
CS 1234689-HpCDF	41.83		1.0798	1.0799	+0.2	9.44E+07	0.45	Y	1.09	81.9
SS 37C1-2378-TCDD	27.44		1.0289	1.0291	+0.3	5.25E+07	n/a	-	1.11	102
SS 12347-PeCDD	33.13		1.2418	1.2423	+0.8	1.06E+08	1.59	Y	0.96	106
SS 12346-PeCDF	31.36		1.2599	1.2604	+0.7	1.74E+08	1.56	Y	1.02	99.5
SS 123469-HxCDF	37.74		0.9743	0.9744	+0.2	1.34E+08	0.53	Y	0.81	115
SS 1234689-HpCDF	41.83		1.0798	1.0799	+0.2	9.44E+07	0.45	Y	0.91	103
AS 1368-TCDD	23.29		0.8735	0.8733	-0.3	1.23E+08	0.80	Y	1.01	100
AS 1368-TCDF	21.09		0.8478	0.8477	-0.1	2.06E+08	0.76	Y	1.22	83.5
FS 1278-TCDD	NotFnd		1.0139							
FS 12478-PeCDD	NotFnd		0.9570							
FS 123468-HxCDD	NotFnd		0.9674							
FS 1234679-HpCDD	NotFnd		0.9788							
TS 1378-TCDD	NotFnd		0.9313							

Totals	Conc	EMPC
Total TCDD	0	0
Total PeCDD	0	0
Total HxCDD	0	0.077
Total HpCDD	0.982	0.982
Total Tetra-Octa Dioxins	3.36	3.43
Total TCDF	0	0
Total PeCDF	0	0
Total HxCDF	0	0.0739
Total HpCDF	0	0.347
Total Tetra-Octa Furans	0.295	0.716
Total Tetra-Octa Dioxins & Furans	3.65	4.15

SGS-AP ID: MB1_11402_DF_SDSRJ
Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

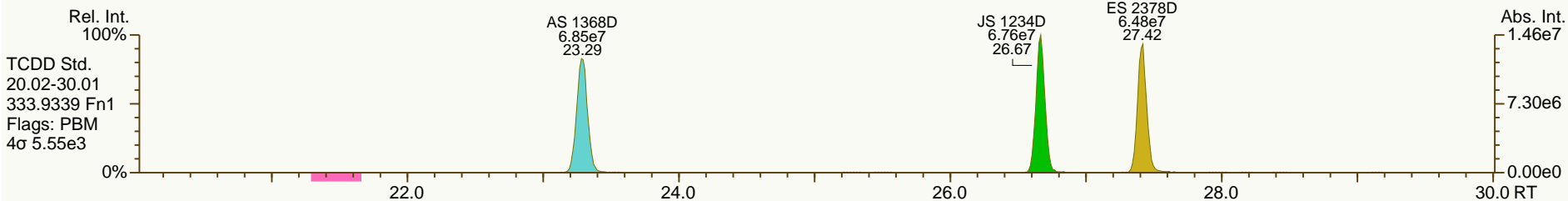
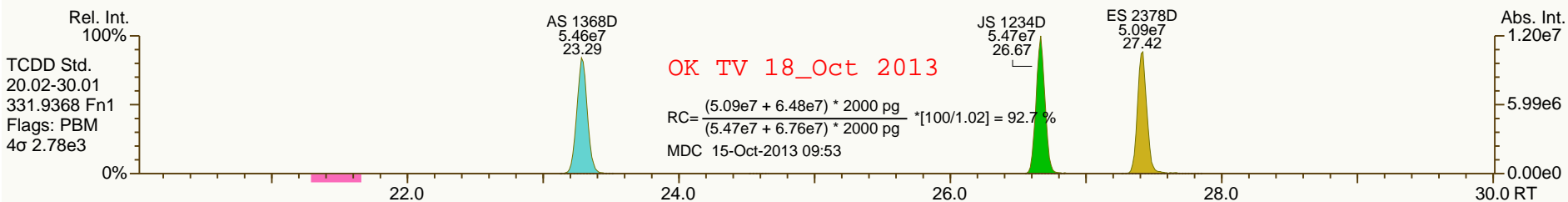
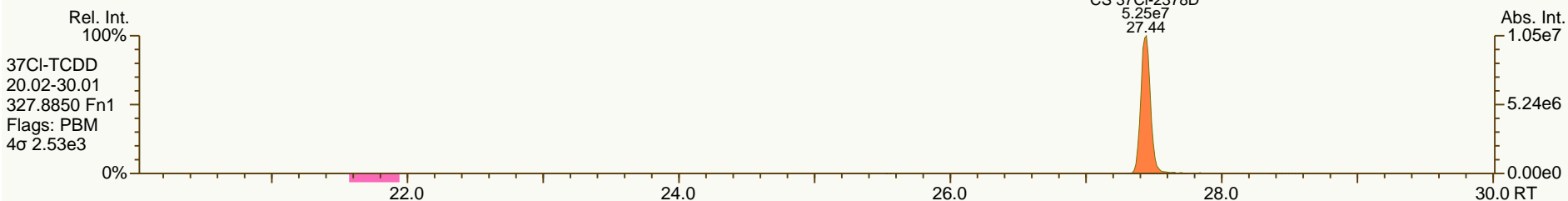
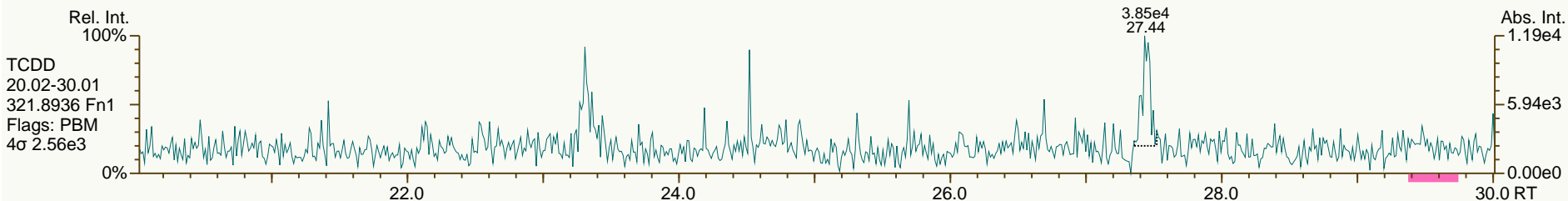
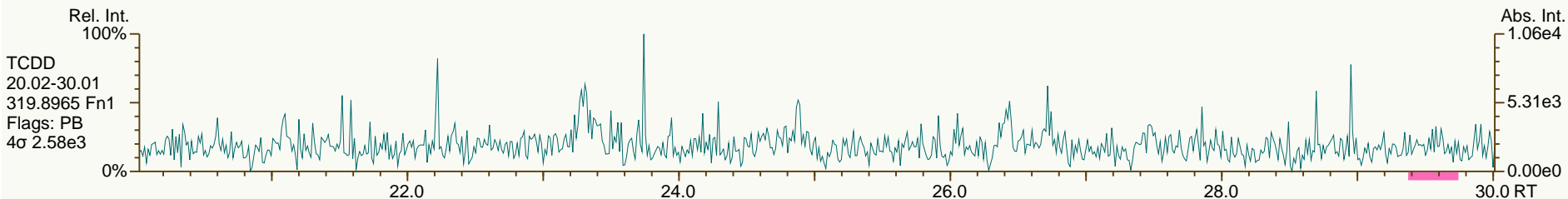
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SGS-AP ID: MB1_11402_DF_SDSRJ
 Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

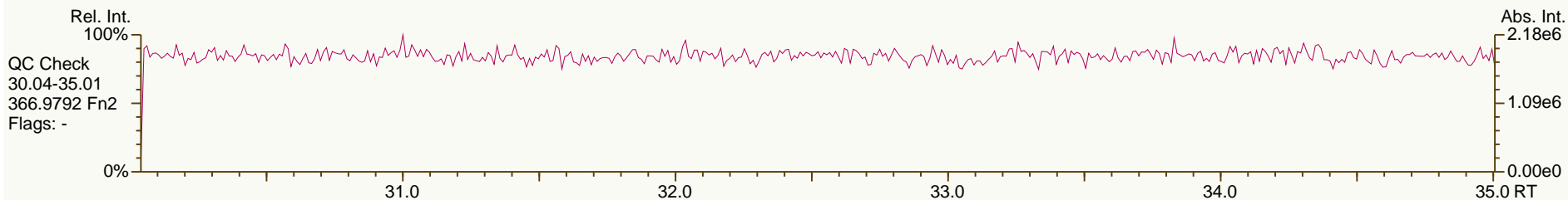
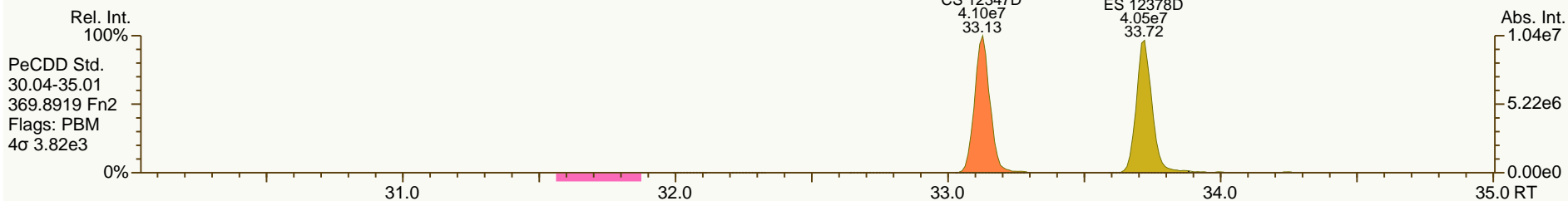
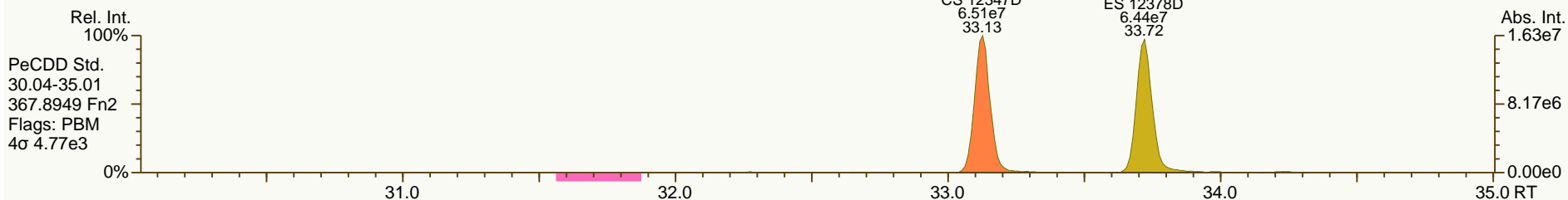
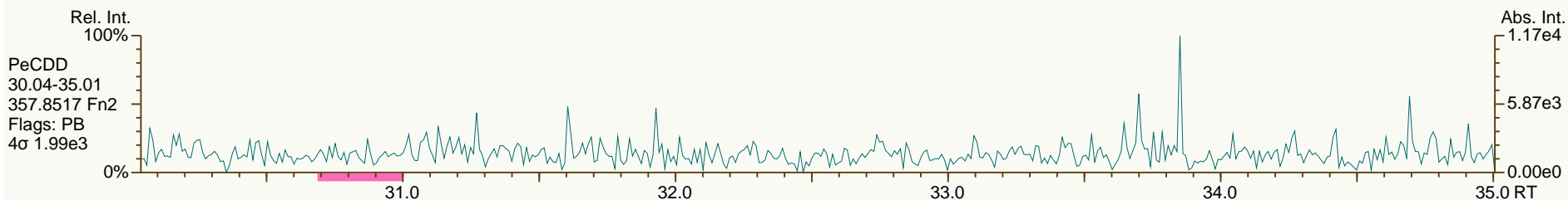
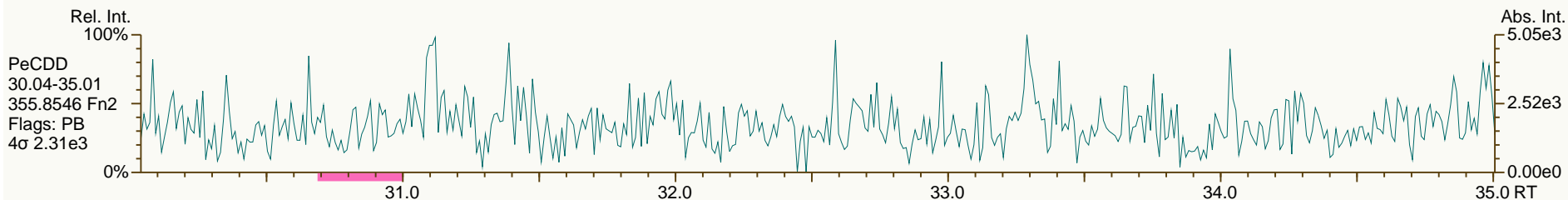
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SGS-AP ID: MB1_11402_DF_SDSRJ
 Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

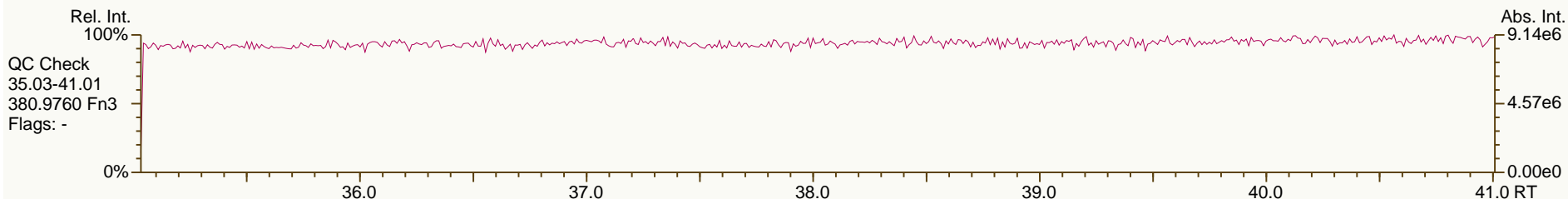
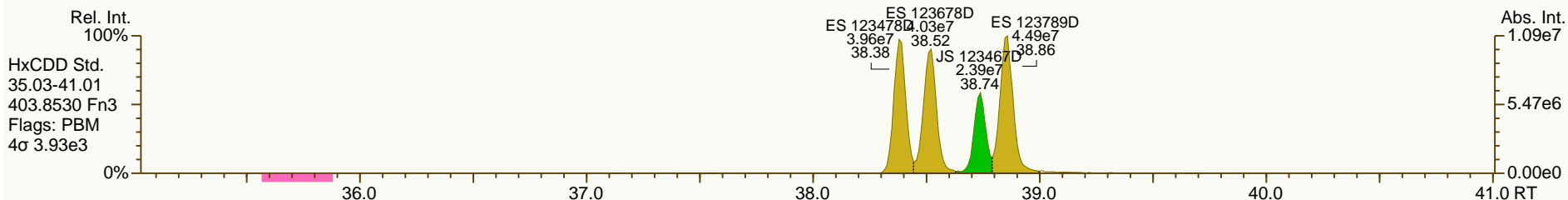
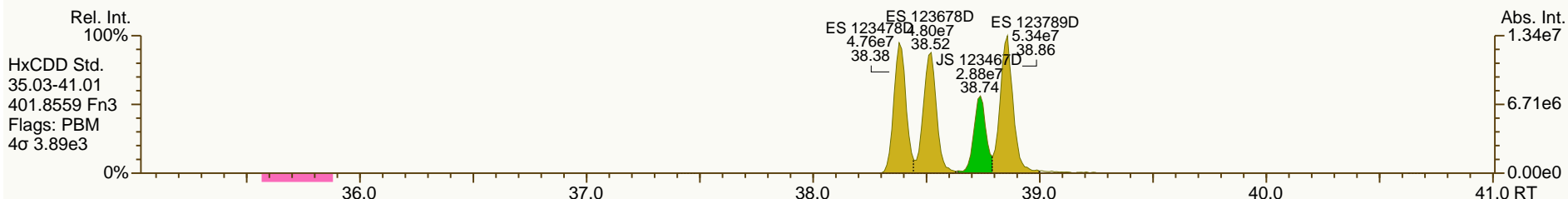
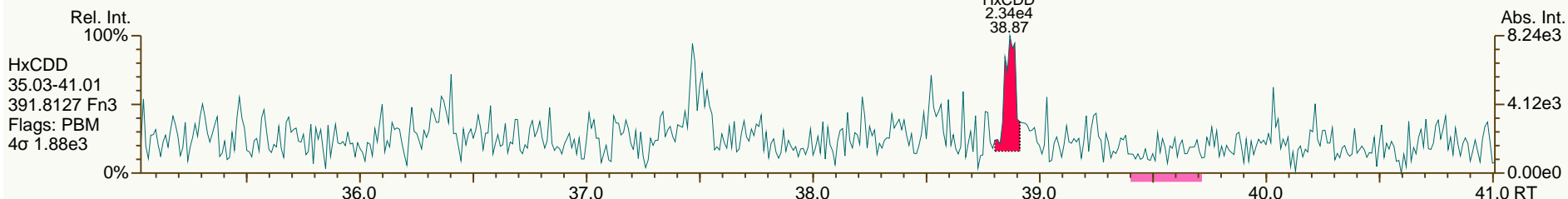
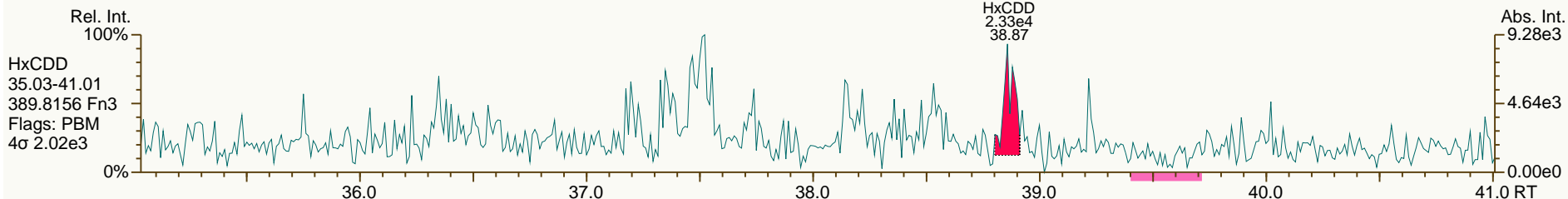
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SGS-AP ID: MB1_11402_DF_SDSRJ
 Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

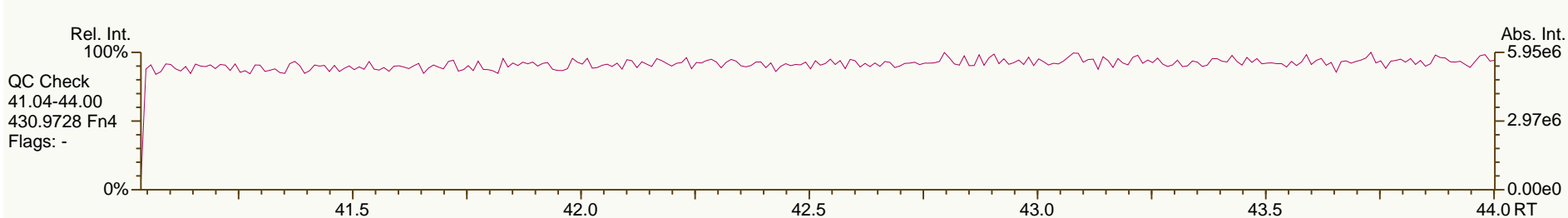
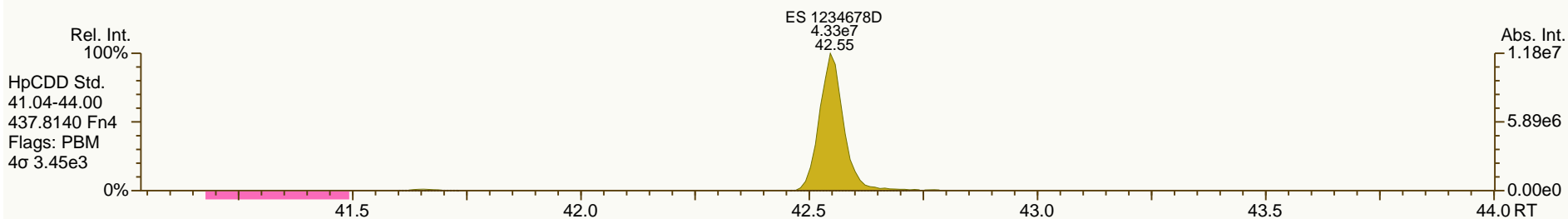
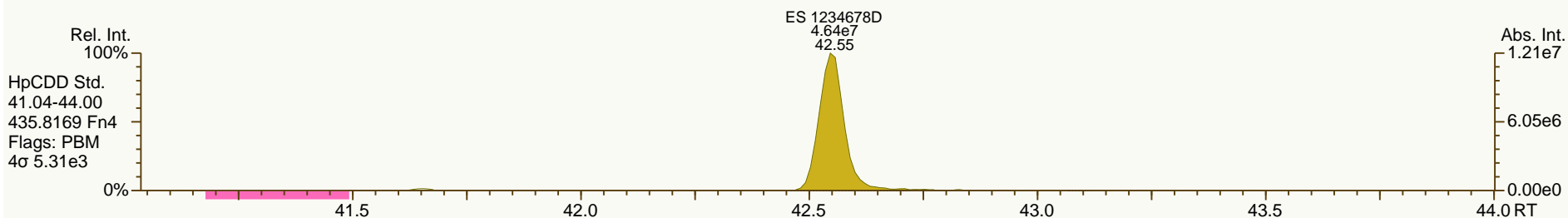
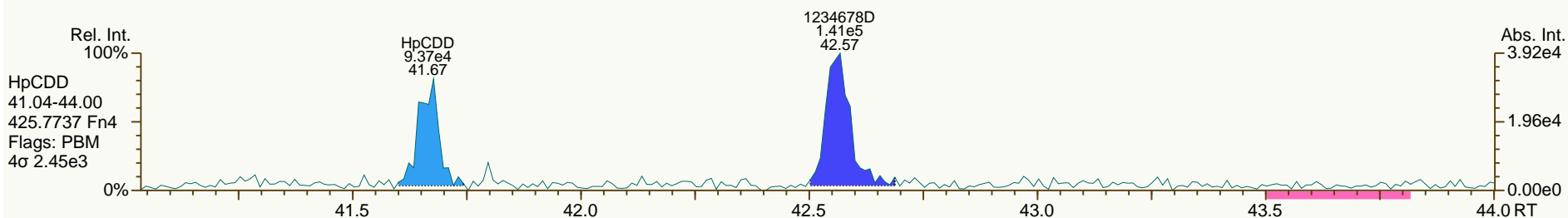
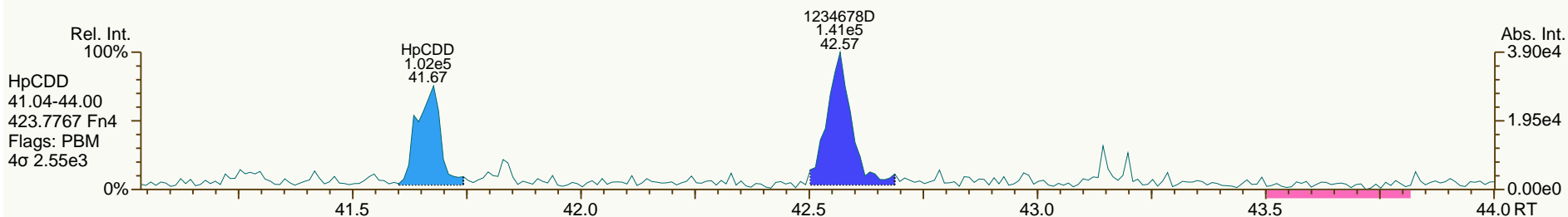
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SGS-AP ID: MB1_11402_DF_SDSRJ
 Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

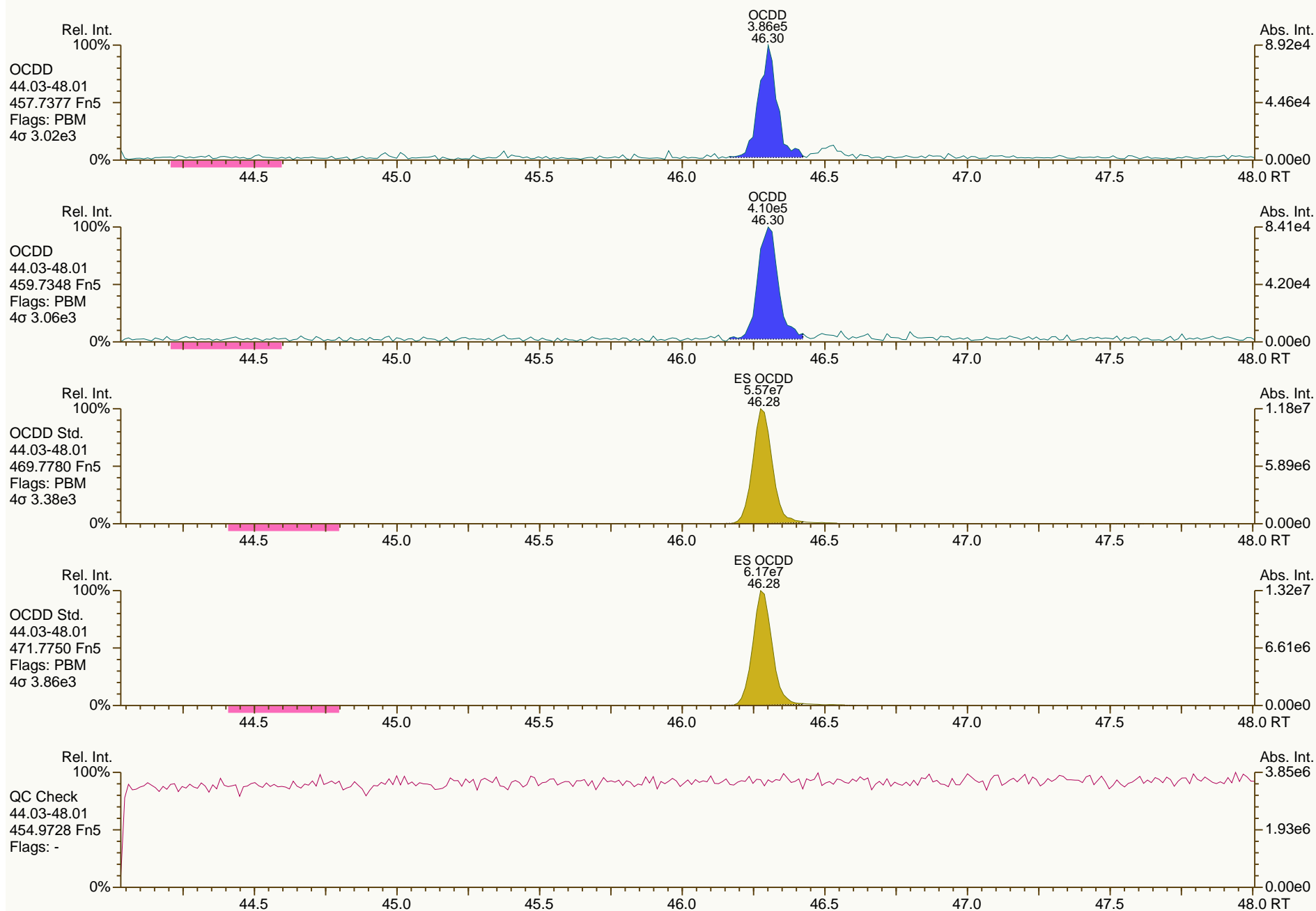
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SGS-AP ID: MB1_11402_DF_SDSRJ
Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

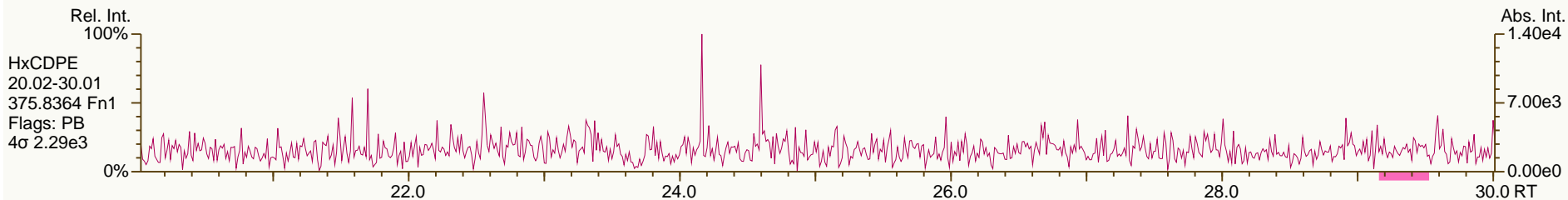
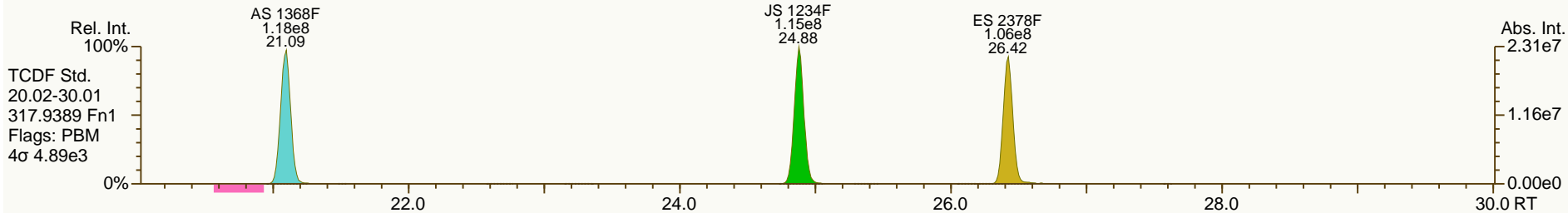
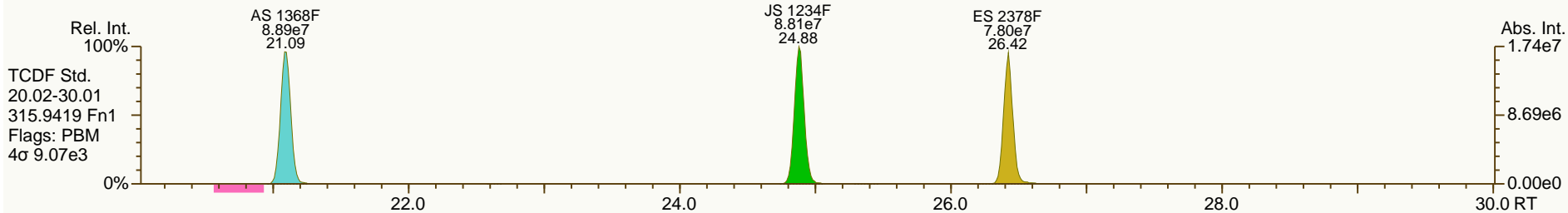
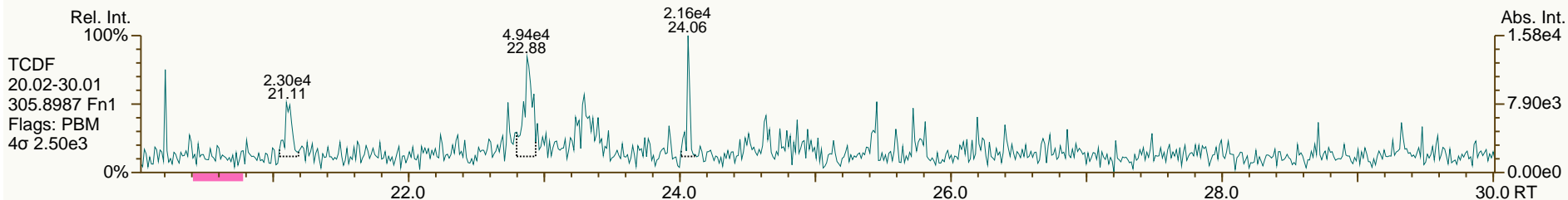
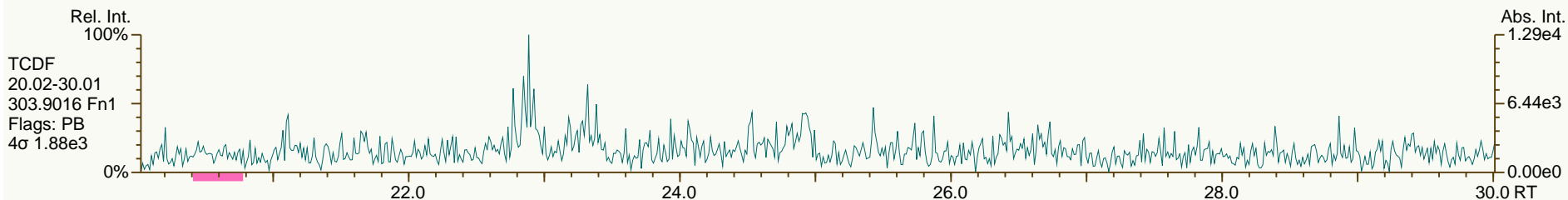
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SGS-AP ID: MB1_11402_DF_SDSRJ
 Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

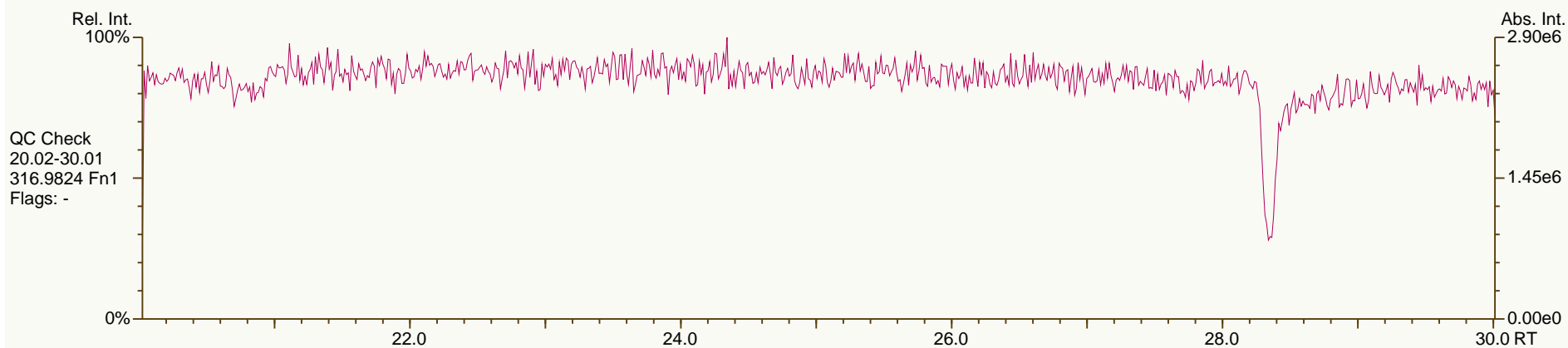
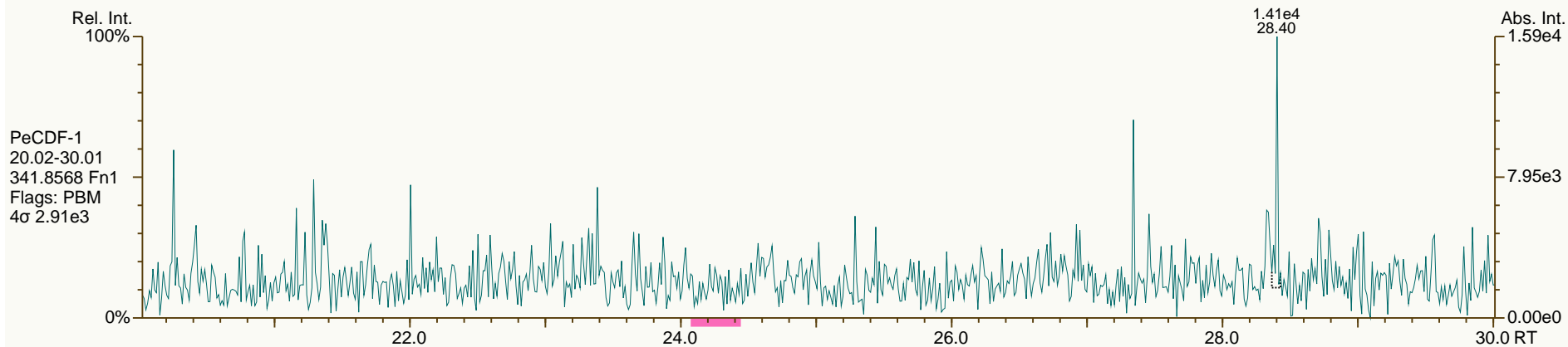
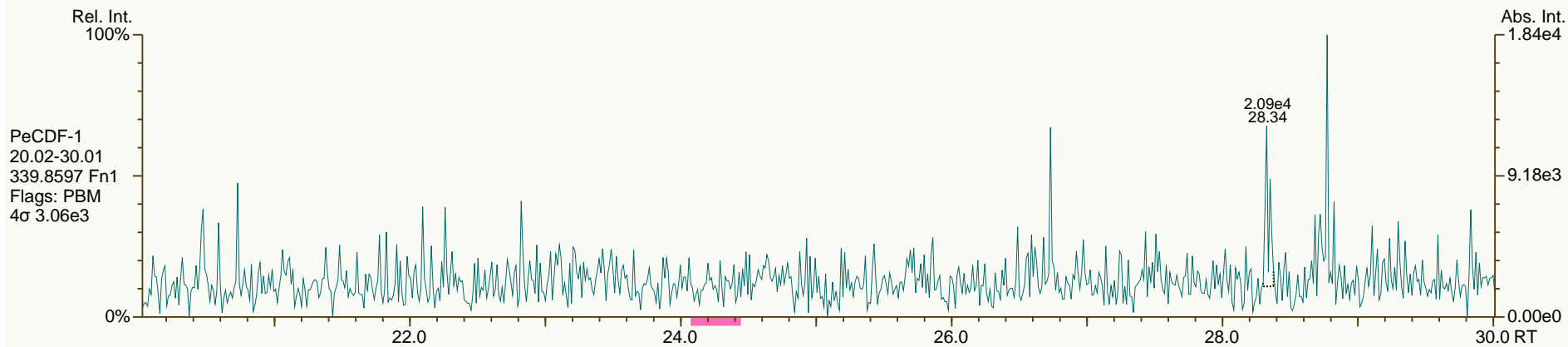
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SGS-AP ID: MB1_11402_DF_SDSRJ
Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

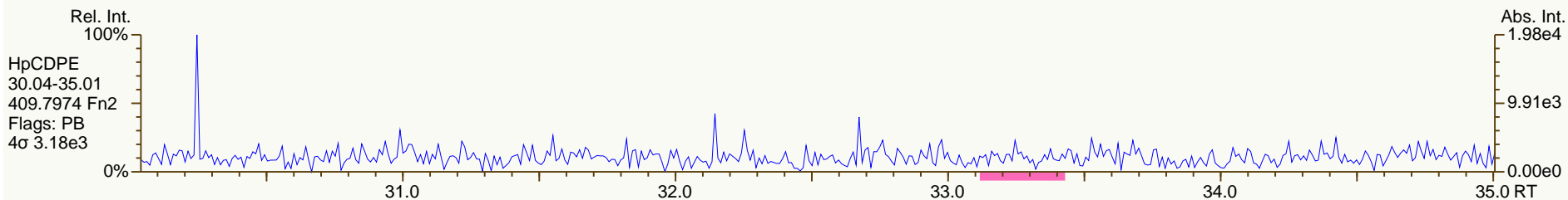
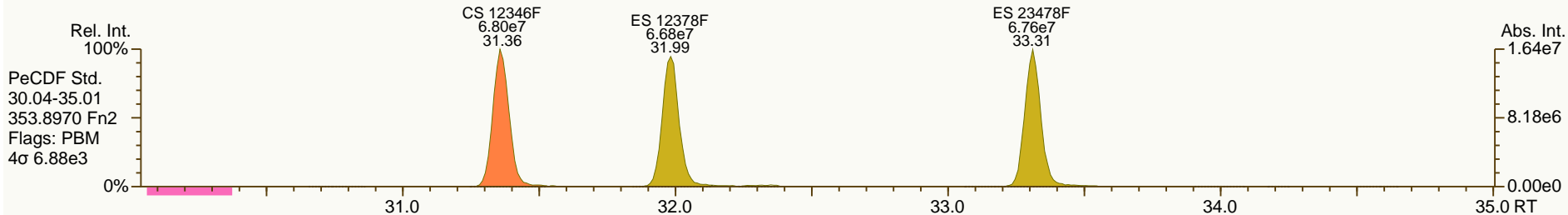
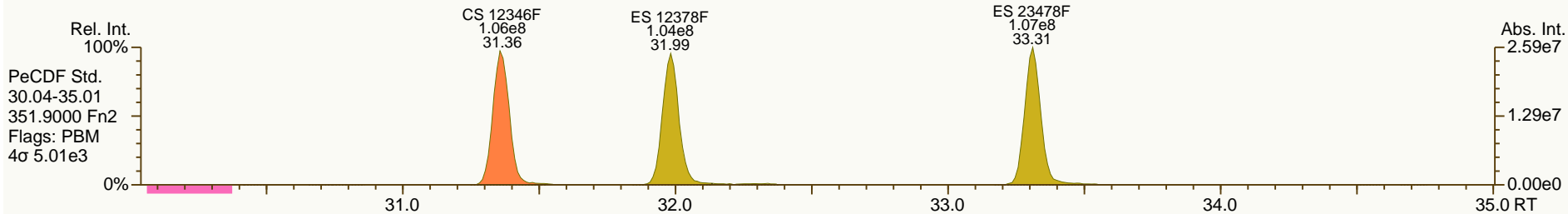
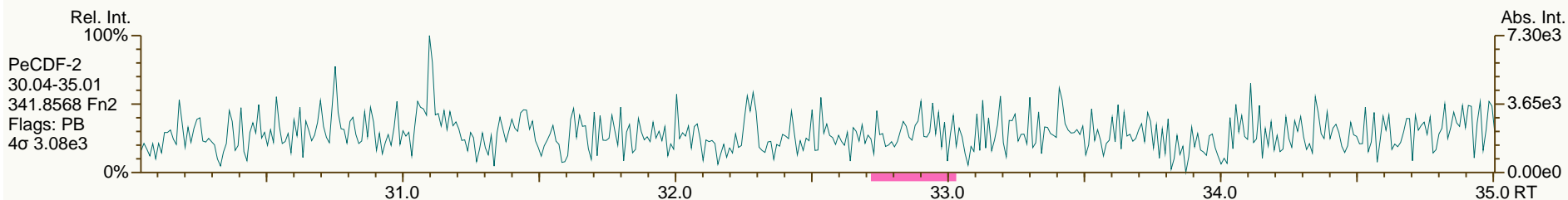
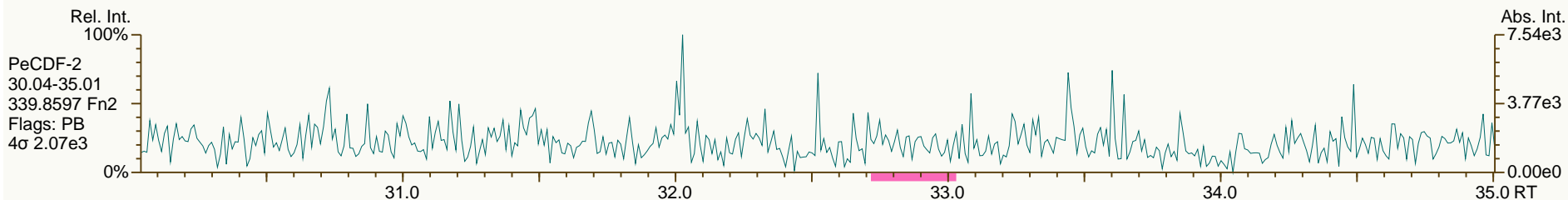
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SGS-AP ID: MB1_11402_DF_SDSRJ
Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

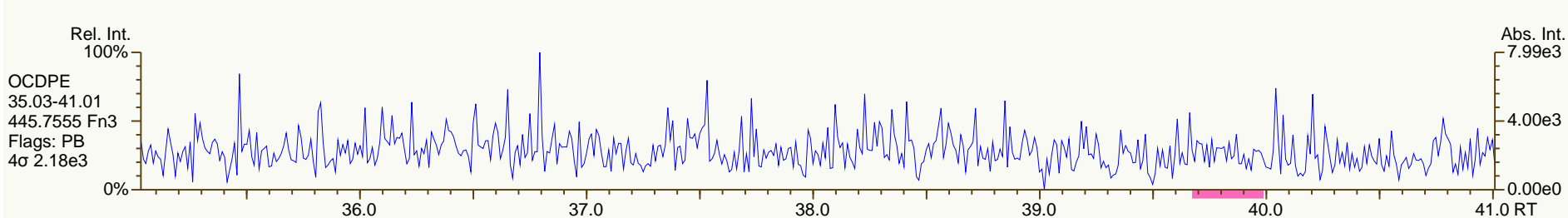
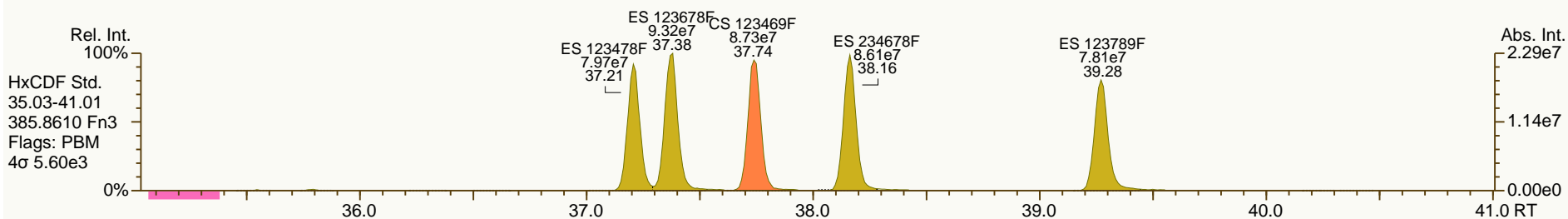
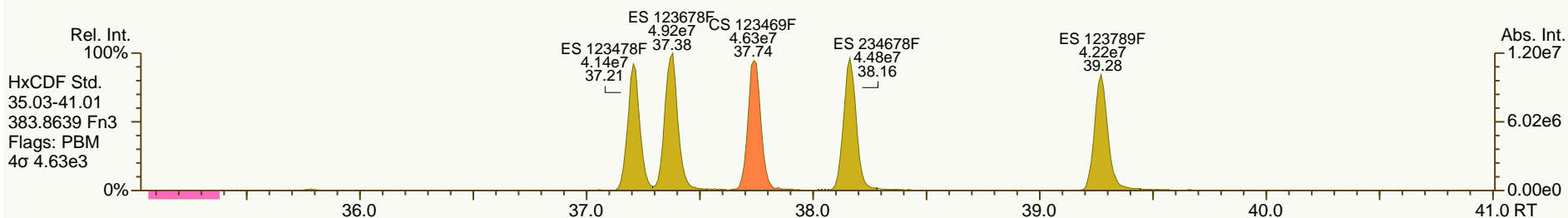
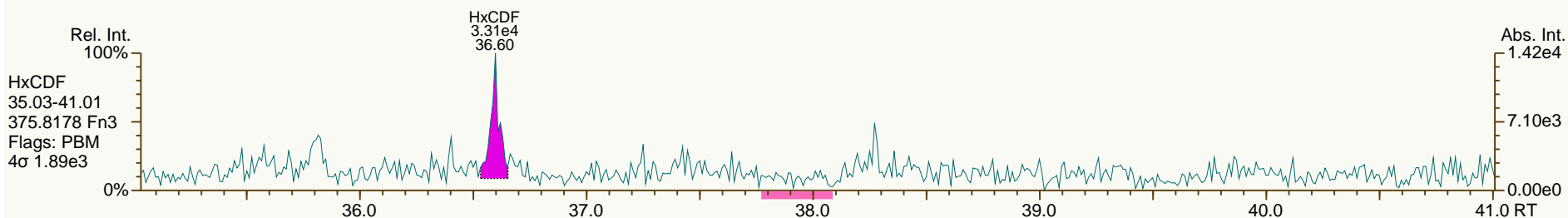
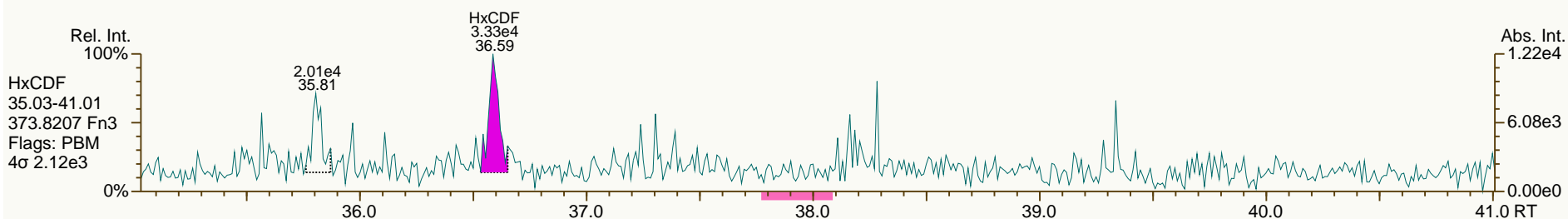
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SGS-AP ID: MB1_11402_DF_SDSRJ
Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

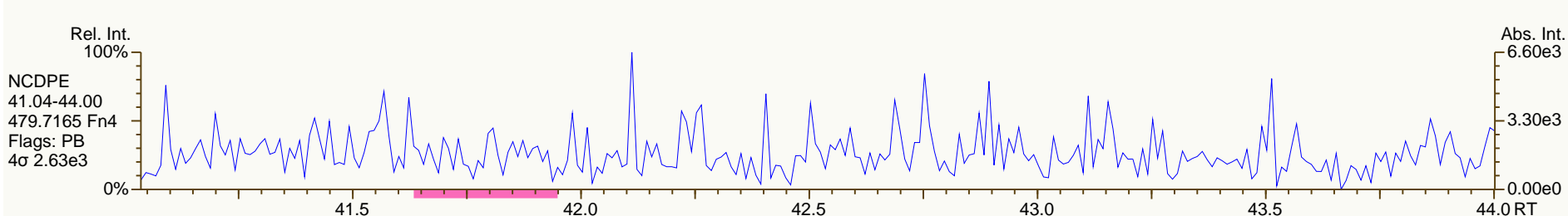
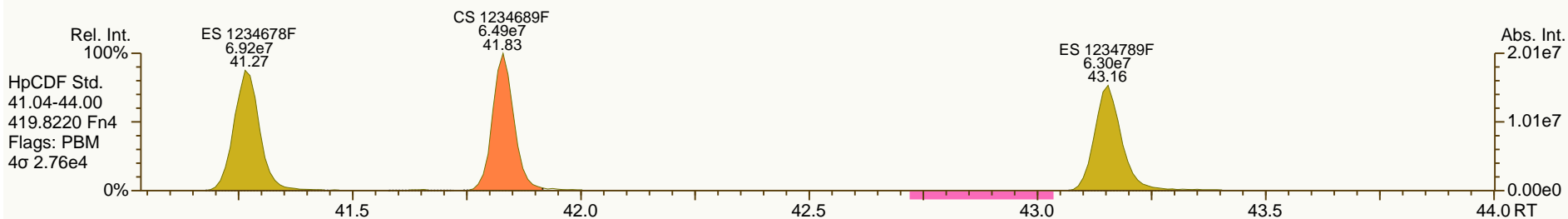
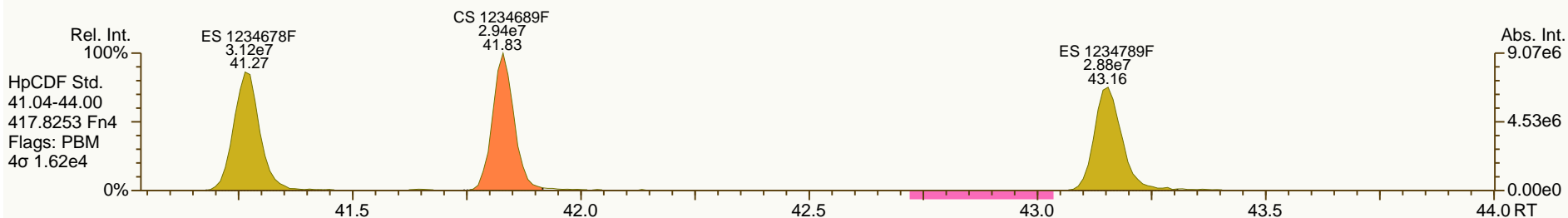
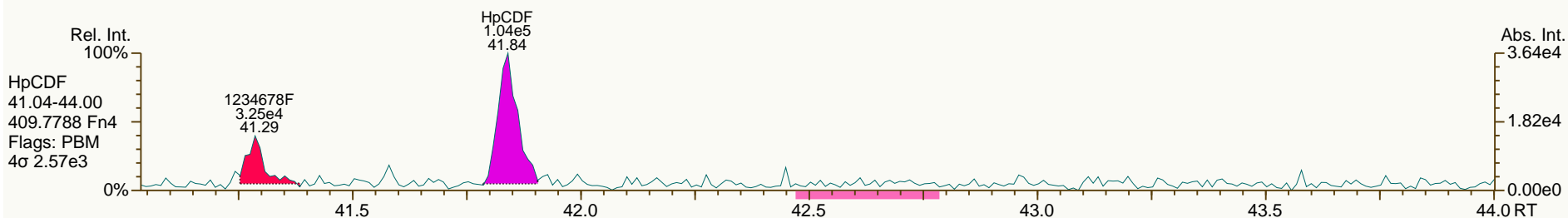
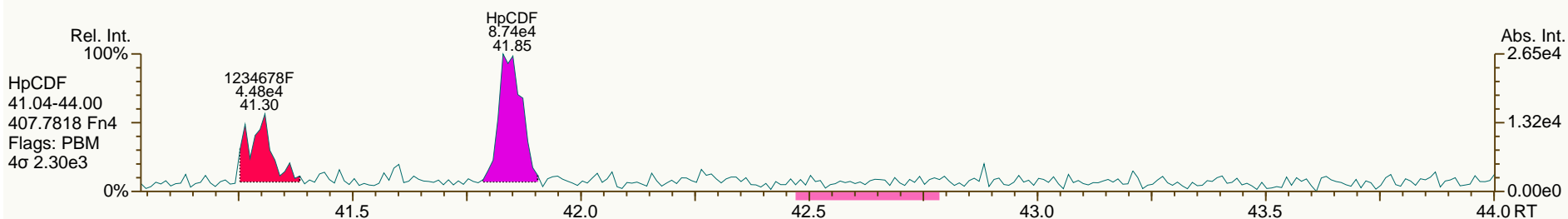
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SGS-AP ID: MB1_11402_DF_SDSRJ
Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

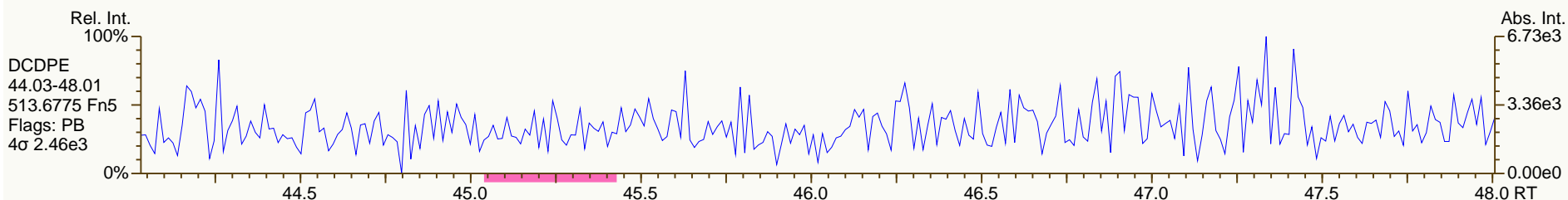
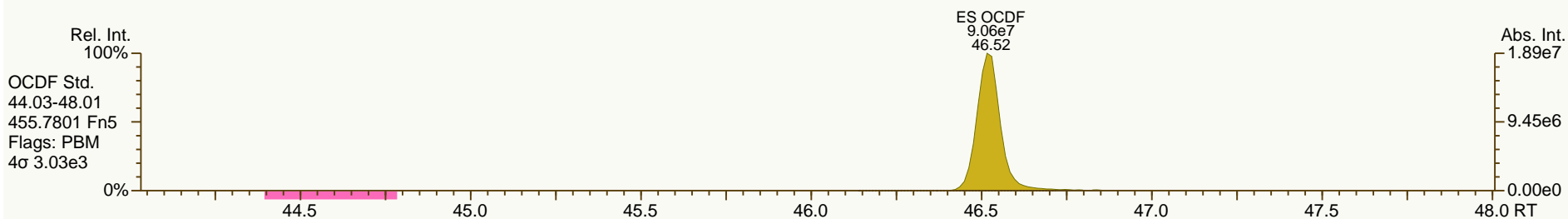
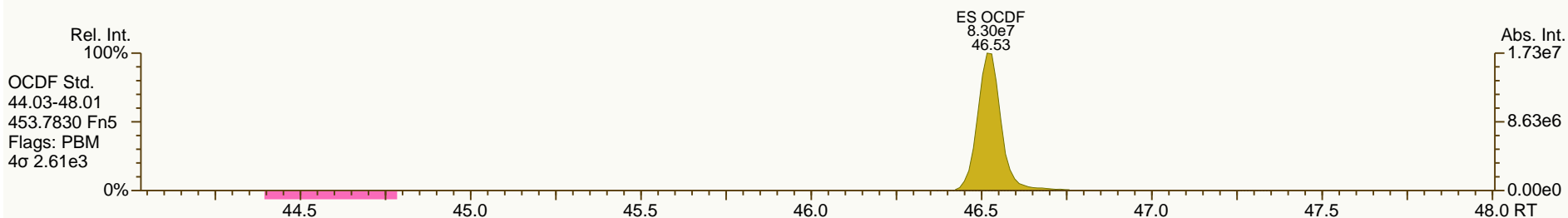
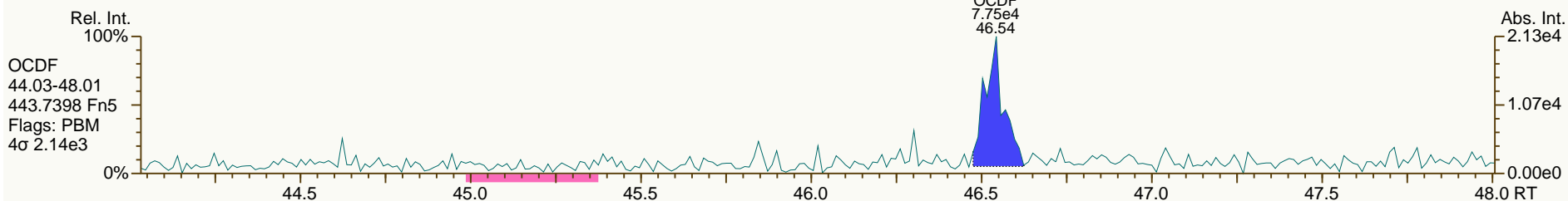
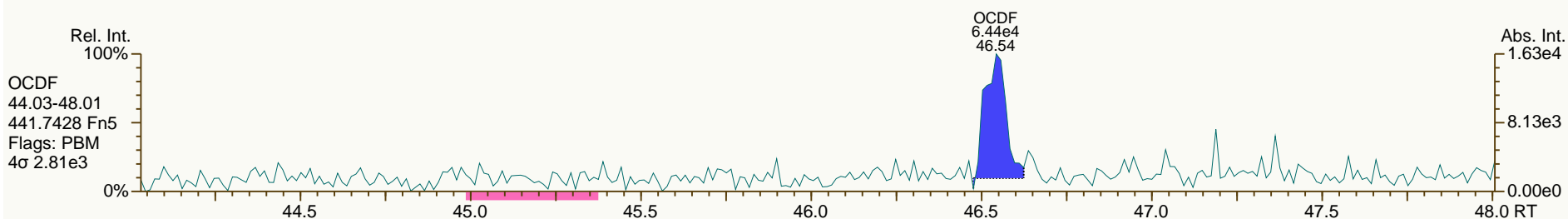
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SGS-AP ID: MB1_11402_DF_SDSRJ
Instr: AutoSpec-Ultima MM1

Sample ID: Method Blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

Acq: 14-OCT-2013 00:57:21
User: MDC Datafile: 131013P2-04



Lab ID: A5975_11402_DF_001RJ

Acq'd: 14 Oct 2013 01:49 MDC

Wt/Vol: 10.01 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: JW-SC401-A-130928

UTP: 15-Oct-2013 09:39 MDC

J-level: 0.499 pg/g

Split: 1

Checkcode: 639-644-YLN

Datafile: 131013P2-05

Report: 15 Oct 2013 09:40 MC

StdS (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37CI)

Name	Act RT	QC	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Conc.	Noise	DL
2378-TCDD	27.44		1.0009	1.0010	+0.2	1.25E+05	0.70	Y	1.18	0.215	4097	0.0816
12378-PeCDD	33.74		1.0007	1.0007	0	2.31E+05	1.41	Y	1.07	0.5	5192	0.112
123478-HxCDD	38.40		1.0004	1.0005	+0.2	3.93E+05	1.29	Y	1.19	0.946	6548	0.142
123678-HxCDD	38.53		1.0039	1.0039	0	1.45E+06	1.25	Y	1.19	3.51	6548	0.145
123789-HxCDD	38.86		1.0127	1.0127	0	6.91E+05	1.26	Y	1.12	1.57	6548	0.148
1234678-HpCDD	42.56		1.0004	1.0004	0	1.56E+07	1.05	Y	1.08	39.9	9802	0.234
OCDD	46.30		1.0003	1.0004	+0.3	6.36E+07	0.91	Y	1.14	233	7641	0.333
2378-TCDF	26.44		1.0009	1.0007	-0.3	1.19E+06	0.80	Y	1.10	1.36	4385	0.0607
12378-PeCDF	32.00		1.0006	1.0007	+0.2	2.35E+05	1.35	Y	1.17	0.286	4843	0.0613
23478-PeCDF	33.33		1.0005	1.0008	+0.6	5.06E+05	1.55	Y	1.14	0.632	4843	0.062
123478-HxCDF	37.22		1.0005	1.0005	0	2.71E+05	1.47	N	1.34	0.413	6729	0.101
123678-HxCDF	37.38		1.0005	1.0004	-0.2	2.94E+05	1.25	Y	1.23	0.419	6729	0.0925
234678-HxCDF	38.17		1.0005	1.0004	-0.2	4.62E+05	1.29	Y	1.26	0.685	6729	0.0981
123789-HxCDF	NotFnd		1.0005	-	-	-	-	-	1.23	-	6729	0.115
1234678-HpCDF	41.28		1.0004	1.0004	0	4.06E+06	1.02	Y	1.42	7.32	6010	0.108
1234789-HpCDF	43.17		1.0003	1.0004	+0.3	1.93E+05	1.08	Y	1.39	0.381	6010	0.122
OCDF	46.54		1.0004	1.0003	-0.3	3.53E+06	0.89	Y	1.11	9.23	4810	0.152

Name	Act RT	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Rec. %
ES 2378-TCDD	27.41	1.0280	1.0280	0	9.86E+07	0.79	Y	1.02	92.1
ES 12378-PeCDD	33.72	1.2640	1.2645	+0.8	8.60E+07	1.60	Y	0.92	89.4
ES 123478-HxCDD	38.38	0.9909	0.9909	0	6.97E+07	1.21	Y	1.02	83.3
ES 123678-HxCDD	38.51	0.9943	0.9944	+0.2	6.93E+07	1.18	Y	1.01	84
ES 123789-HxCDD	38.85	1.0030	1.0031	+0.2	7.89E+07	1.21	Y	1.14	84.5
ES 1234678-HpCDD	42.54	1.0984	1.0986	+0.5	7.17E+07	1.07	Y	1.02	85.8
ES OCDD	46.28	1.1947	1.1950	+0.7	9.55E+07	0.89	Y	0.72	81
ES 2378-TCDF	26.42	1.0617	1.0621	+0.6	1.59E+08	0.73	Y	1.01	96.3
ES 12378-PeCDF	31.98	1.2848	1.2854	+0.9	1.41E+08	1.58	Y	0.89	96.9
ES 23478-PeCDF	33.31	1.3381	1.3388	+1.0	1.40E+08	1.59	Y	0.91	94
ES 123478-HxCDF	37.20	0.9606	0.9606	0	9.78E+07	0.54	Y	1.53	78.1
ES 123678-HxCDF	37.37	0.9649	0.9649	0	1.14E+08	0.53	Y	1.73	80.6
ES 234678-HxCDF	38.16	0.9851	0.9853	+0.5	1.07E+08	0.53	Y	1.61	81.1
ES 123789-HxCDF	39.27	1.0139	1.0139	0	9.60E+07	0.53	Y	1.39	84.2
ES 1234678-HpCDF	41.26	1.0654	1.0655	+0.2	7.80E+07	0.45	Y	1.20	79.4
ES 1234789-HpCDF	43.15	1.1140	1.1142	+0.5	7.30E+07	0.45	Y	1.07	83.3
ES OCDF	46.52	1.2010	1.2013	+0.7	1.38E+08	0.91	Y	1.04	80.8

Lab ID: A5975_11402_DF_001RJ

Acq'd: 14 Oct 2013 01:49 MDC

Wt/Vol: 10.01 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: JW-SC401-A-130928

UTP: 15-Oct-2013 09:39 MDC

J-level: 0.499 pg/g

Split: 1

Checkcode: 639-644-YLN

Datafile: 131013P2-05

Report: 15 Oct 2013 09:40 MC

StdS (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37Cl)

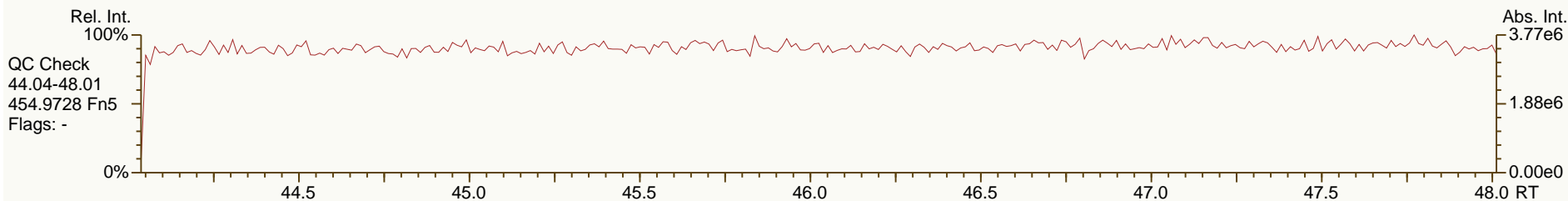
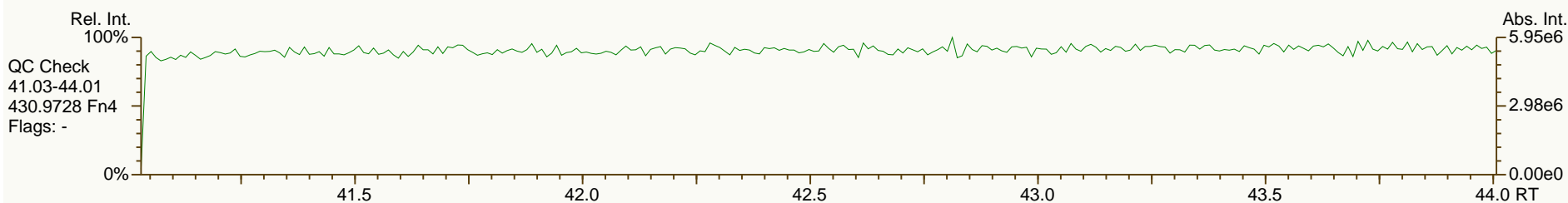
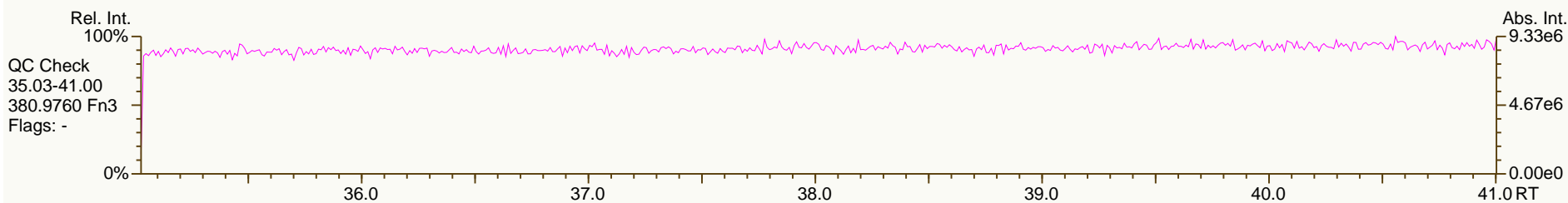
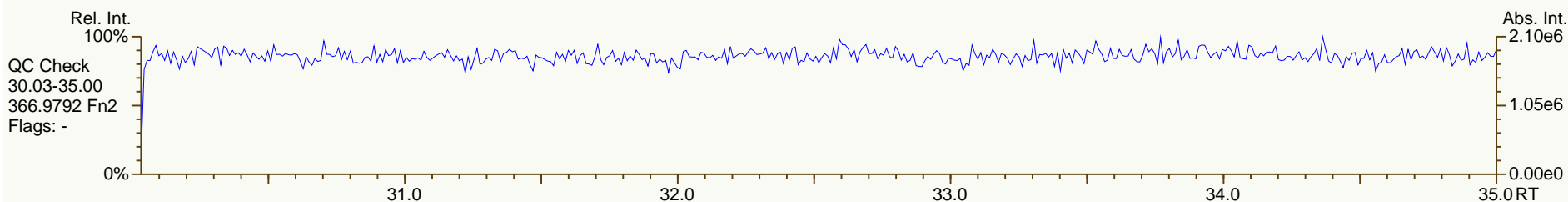
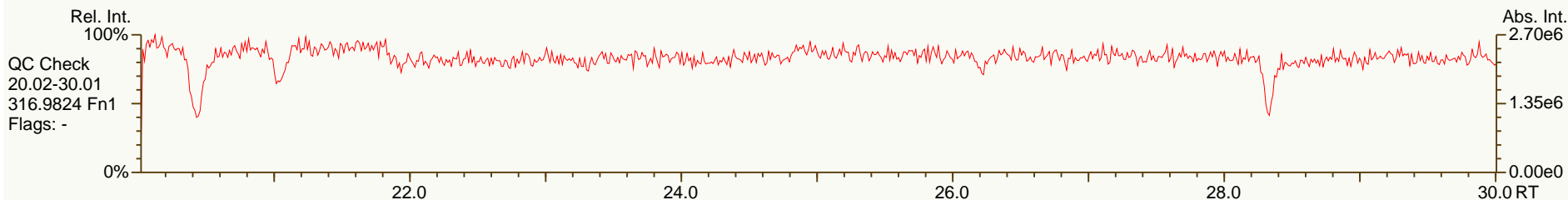
Name	Act RT	QC	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Rec. %
JS 1234-TCDD	26.66		-	-	-	1.05E+08	0.79	Y	-	-
JS 1234-TCDF	24.88		-	-	-	1.64E+08	0.74	Y	-	-
JS 123467-HxCDD	38.73		-	-	-	4.09E+07	1.17	Y	-	-
CS 37Cl-2378-TCDD	27.44		1.0289	1.0290	+0.2	4.59E+07	n/a	-	1.13	97
CS 12347-PeCDD	33.12		1.2418	1.2422	+0.6	8.72E+07	1.59	Y	0.88	95.2
CS 12346-PeCDF	31.35		1.2599	1.2603	+0.6	1.42E+08	1.58	Y	0.90	96.3
CS 123469-HxCDF	37.73		0.9743	0.9743	0	1.08E+08	0.53	Y	1.40	94
CS 1234689-HpCDF	41.82		1.0798	1.0800	+0.5	7.70E+07	0.46	Y	1.09	86.1
SS 37Cl-2378-TCDD	27.44		1.0289	1.0290	+0.2	4.59E+07	n/a	-	1.11	105
SS 12347-PeCDD	33.12		1.2418	1.2422	+0.6	8.72E+07	1.59	Y	0.96	106
SS 12346-PeCDF	31.35		1.2599	1.2603	+0.6	1.42E+08	1.58	Y	1.02	98.9
SS 123469-HxCDF	37.73		0.9743	0.9743	0	1.08E+08	0.53	Y	0.81	116
SS 1234689-HpCDF	41.82		1.0798	1.0800	+0.5	7.70E+07	0.46	Y	0.91	108
AS 1368-TCDD	23.29		0.8735	0.8733	-0.3	1.19E+08	0.78	Y	1.01	113
AS 1368-TCDF	21.09		0.8478	0.8479	+0.1	1.84E+08	0.74	Y	1.22	91.9
FS 1278-TCDD	NotFnd		1.0139							
FS 12478-PeCDD	NotFnd		0.9570							
FS 123468-HxCDD	NotFnd		0.9674							
FS 1234679-HpCDD	NotFnd		0.9788							
TS 1378-TCDD	NotFnd		0.9313							

Totals	Conc	EMPC		
Total TCDD	18.1	18.2	* 37Cl correction has been applied to 2378-TCDD	
Total PeCDD	15.5	16	Original Values	Corrected Values
Total HxCDD	43.6	43.6	Ratio 0.51	0.70
Total HpCDD	88.1	88.1	Response 1.53E+05	1.25E+05
Total Tetra-Octa Dioxins	398	399		
Total TCDF	13.4	14		
Total PeCDF	7.18	7.71		
Total HxCDF	12.1	12.6		
Total HpCDF	19.3	19.3		
Total Tetra-Octa Furans	61.2	62.9		
Total Tetra-Octa Dioxins & Furans	459	462		

SGS-AP ID: A5975_11402_DF_001RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-A-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

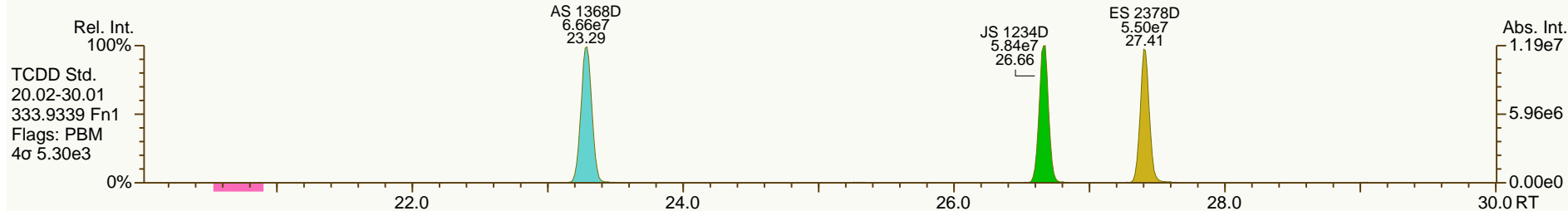
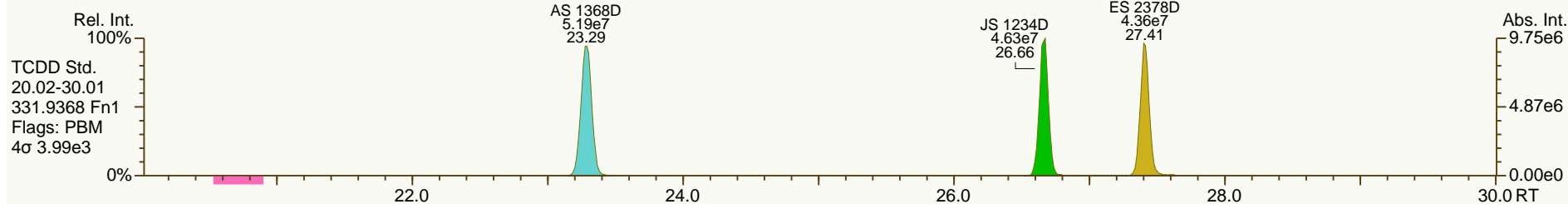
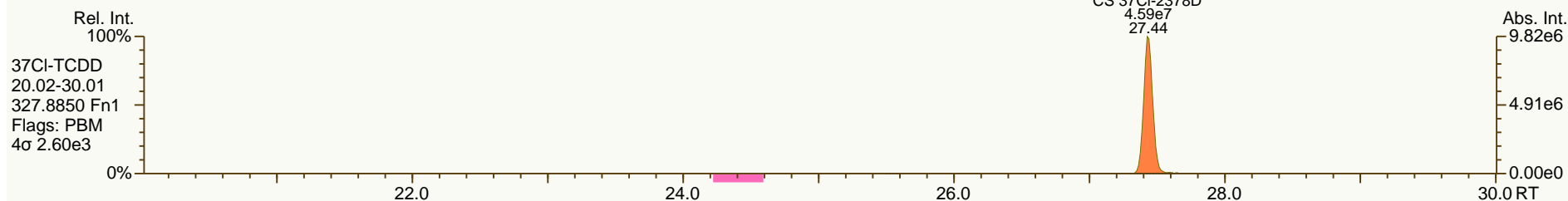
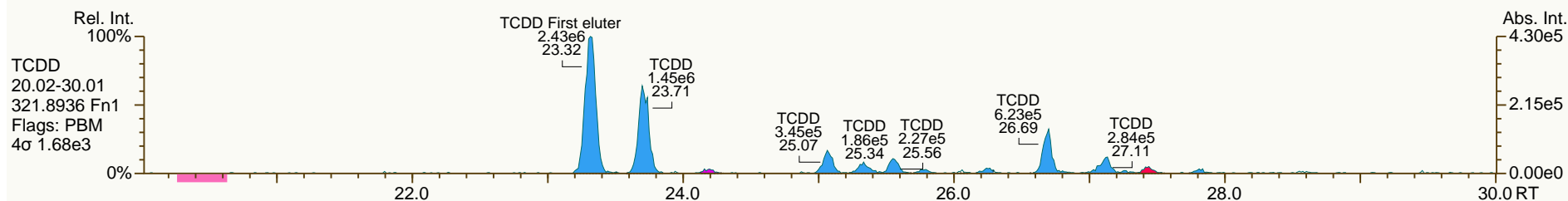
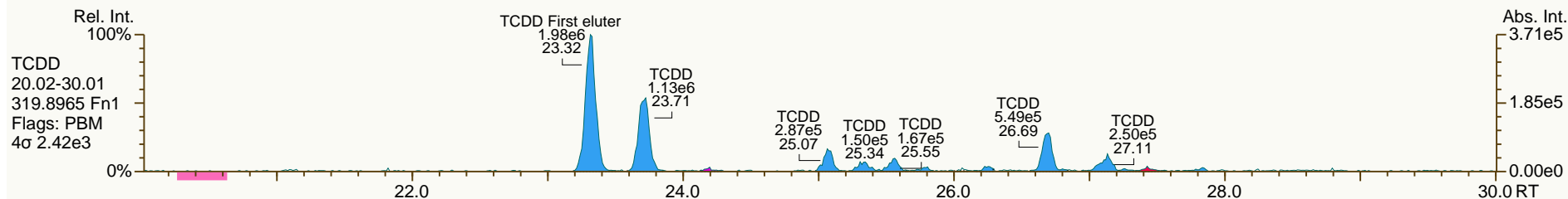
Acq: 14-OCT-2013 01:49:59
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SGS-AP ID: A5975_11402_DF_001RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-A-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

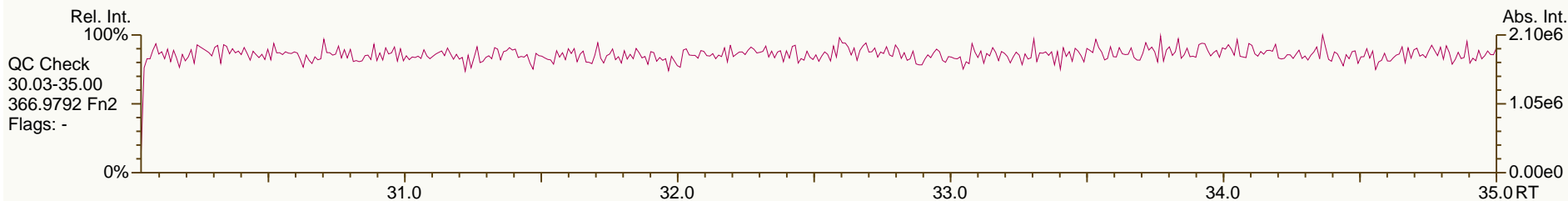
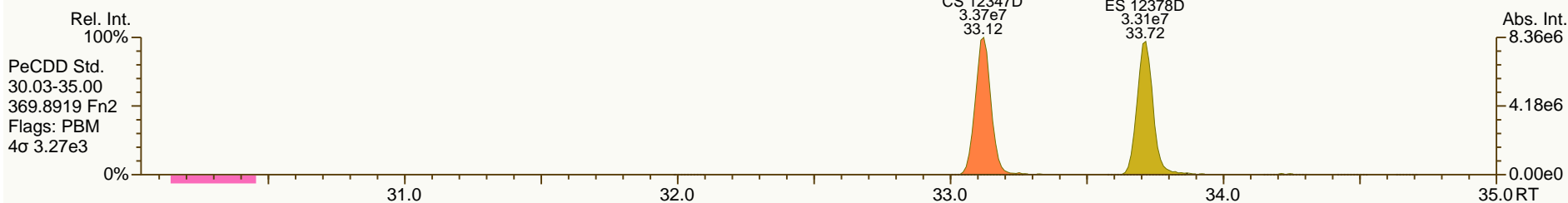
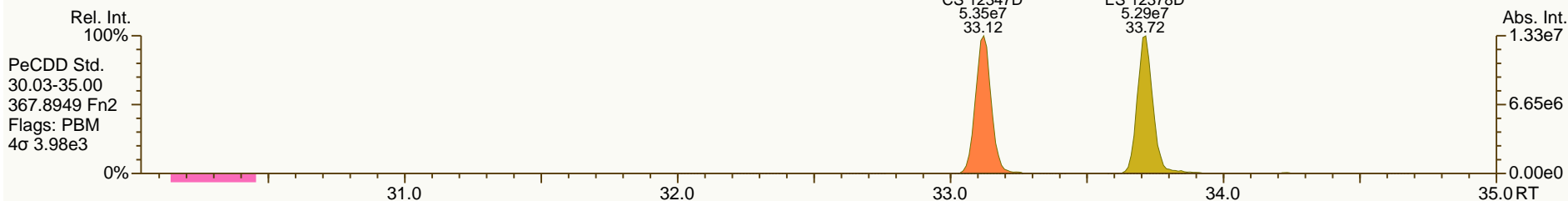
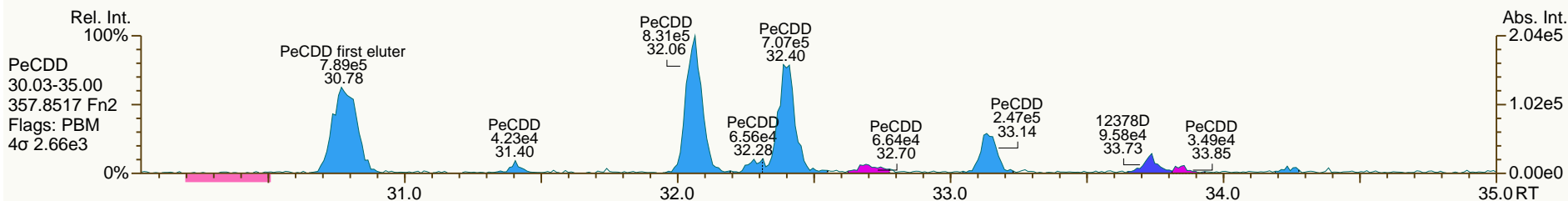
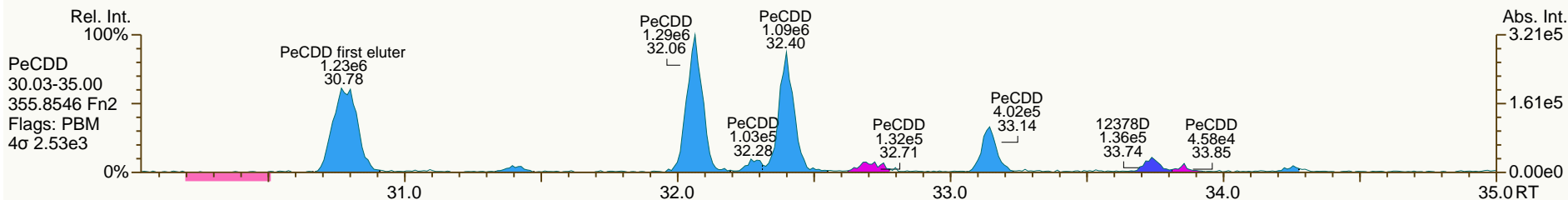
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SGS-AP ID: A5975_11402_DF_001RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-A-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

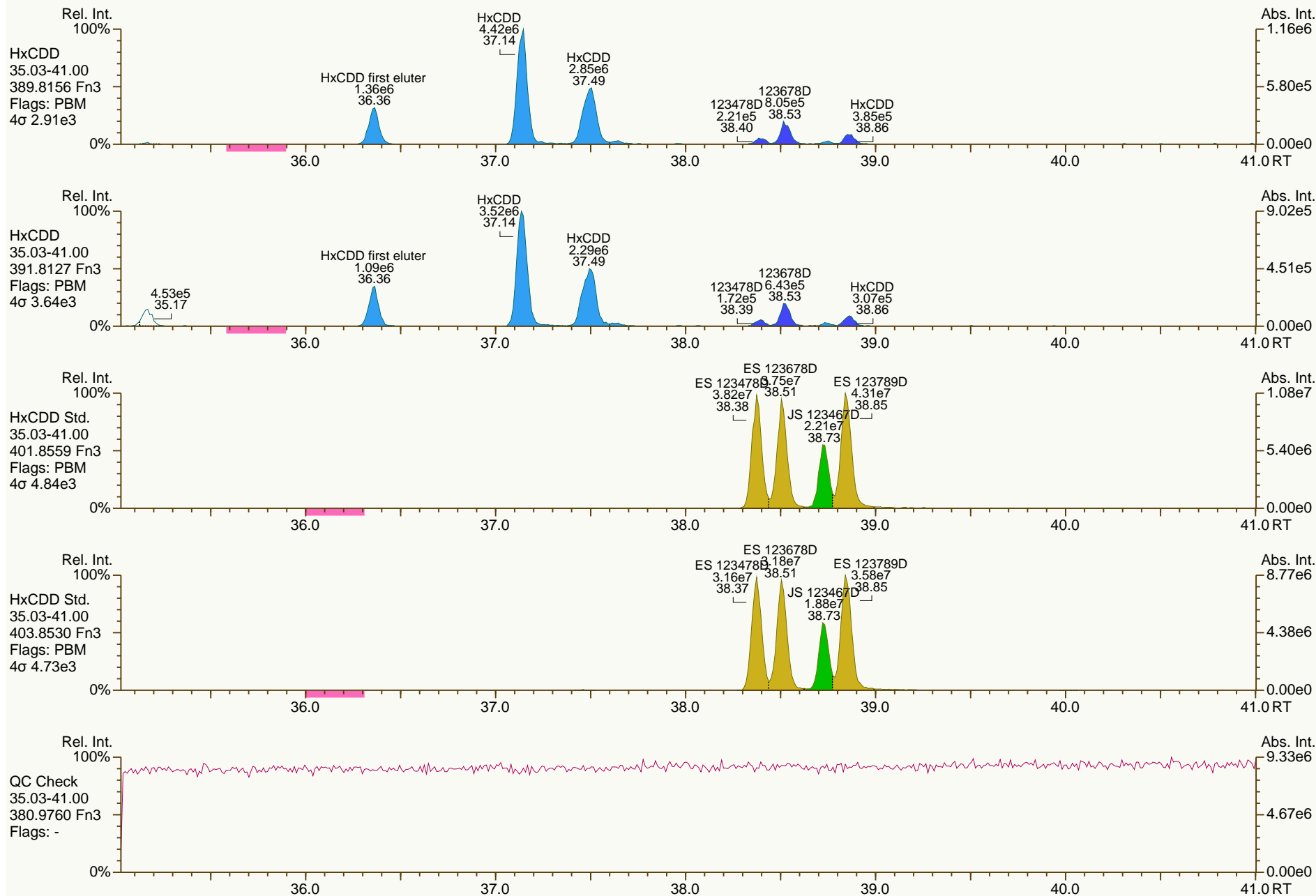
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SGS-AP ID: A5975_11402_DF_001RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-A-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

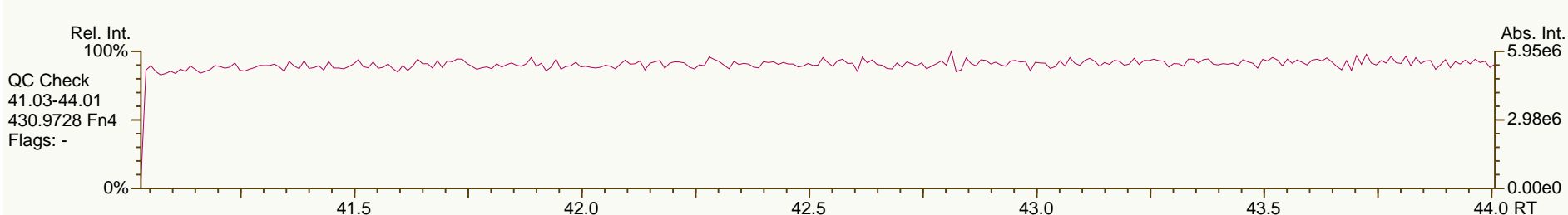
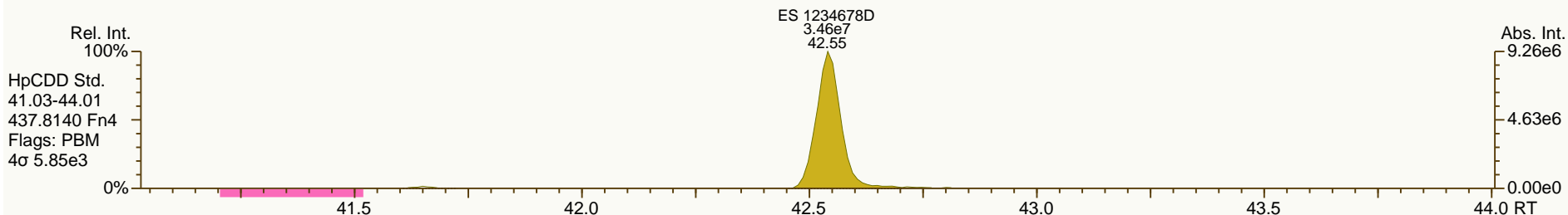
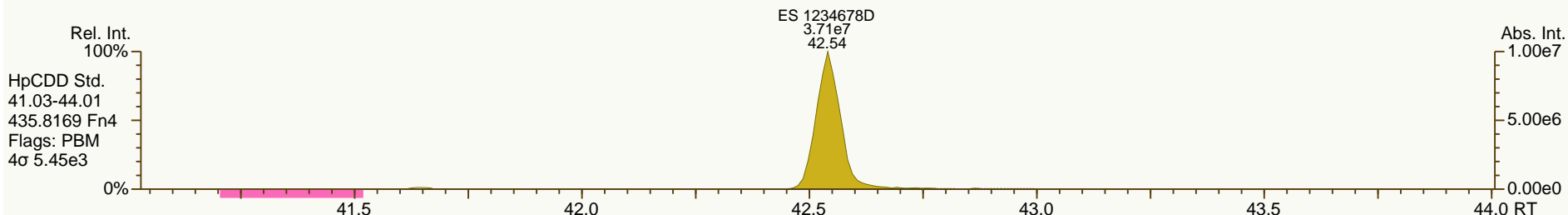
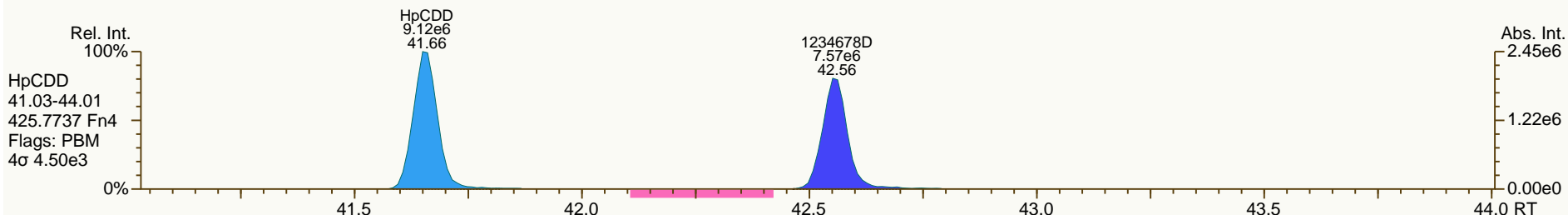
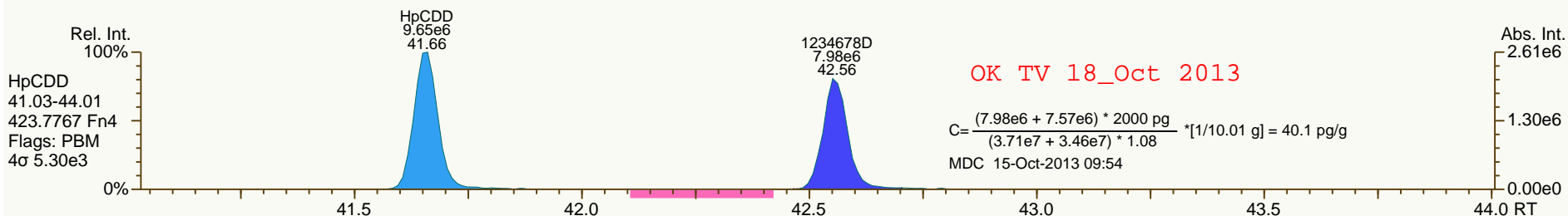
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SGS-AP ID: A5975_11402_DF_001RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-A-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

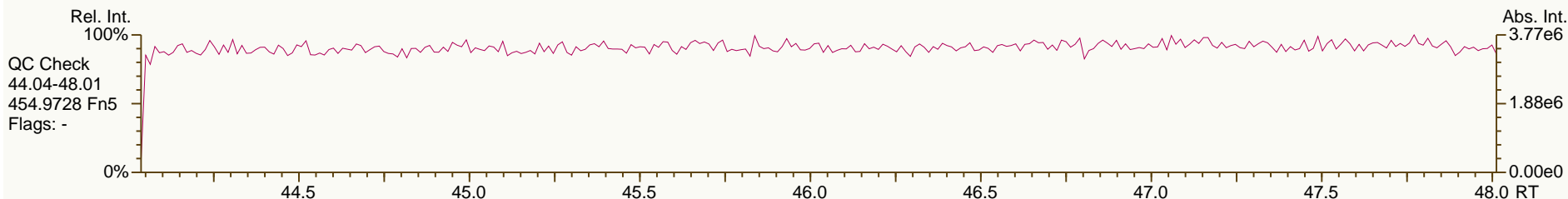
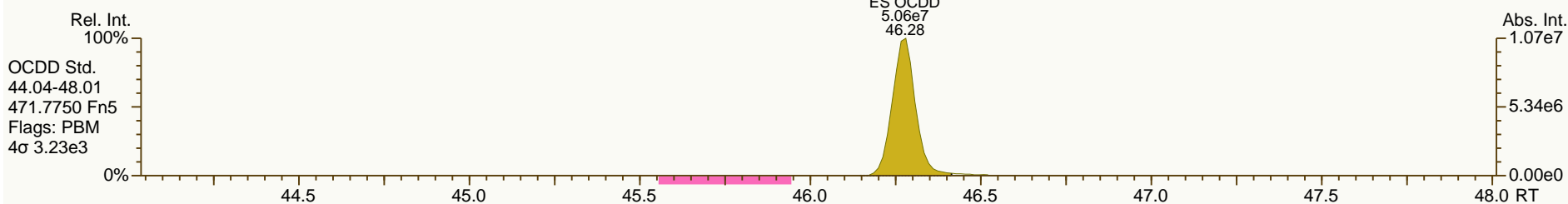
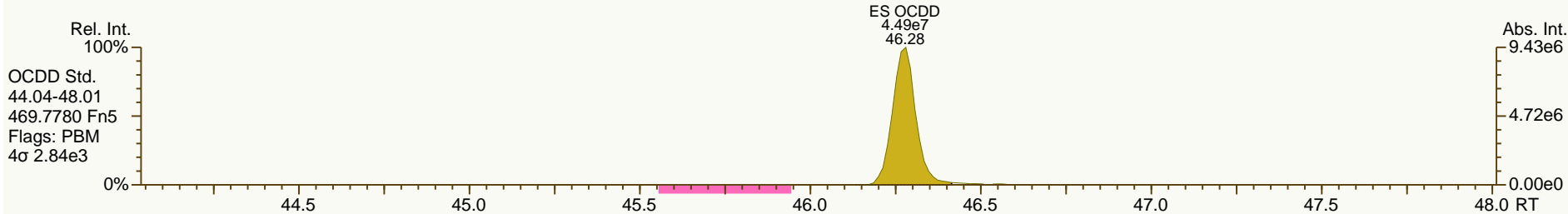
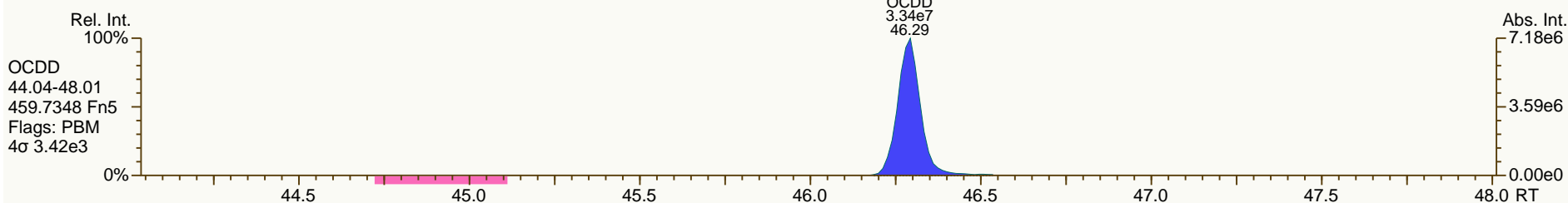
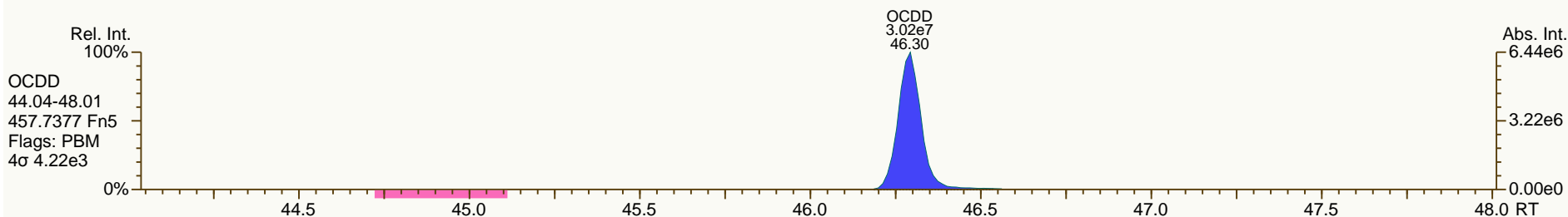
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SGS-AP ID: A5975_11402_DF_001RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-A-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

Acq: 14-OCT-2013 01:49:59
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SGS-AP ID: A5975_11402_DF_001RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-A-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

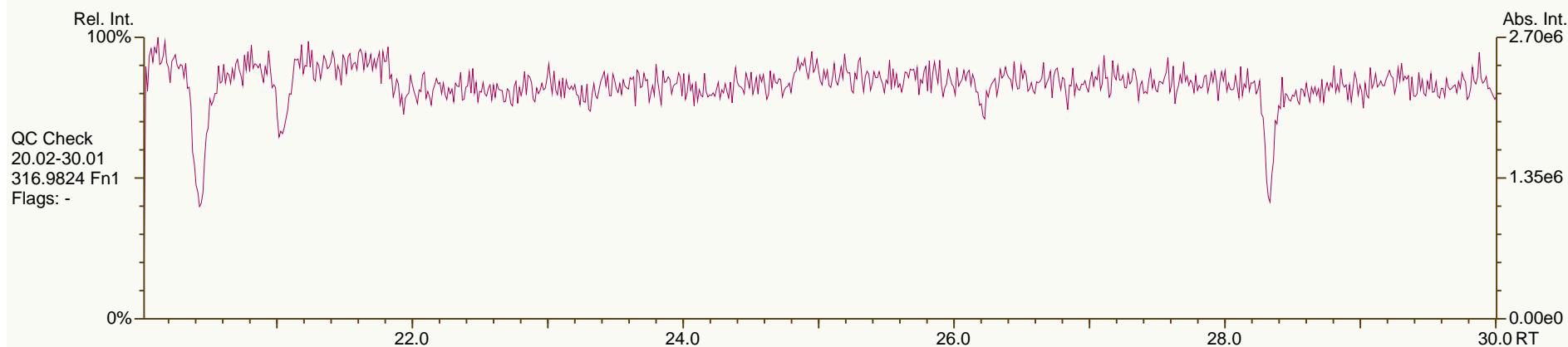
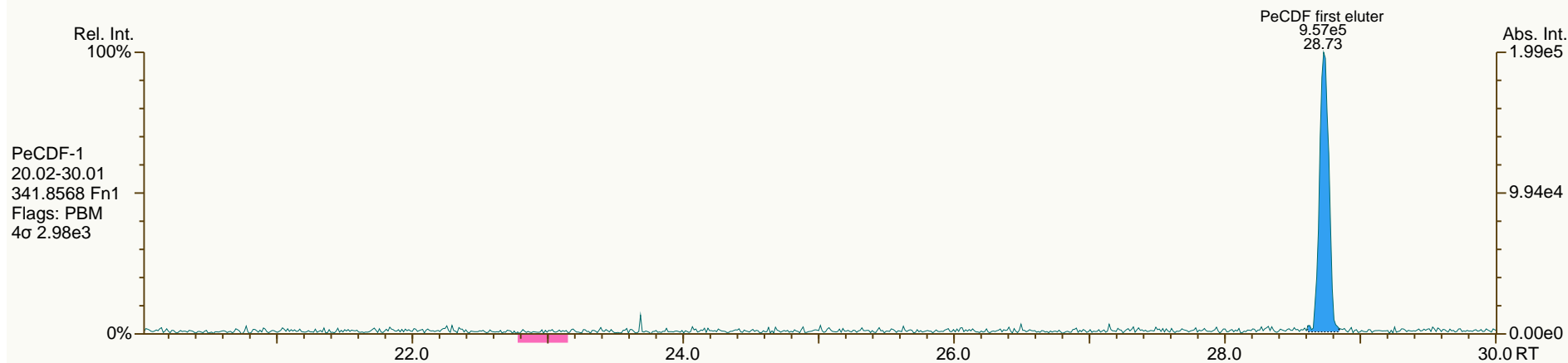
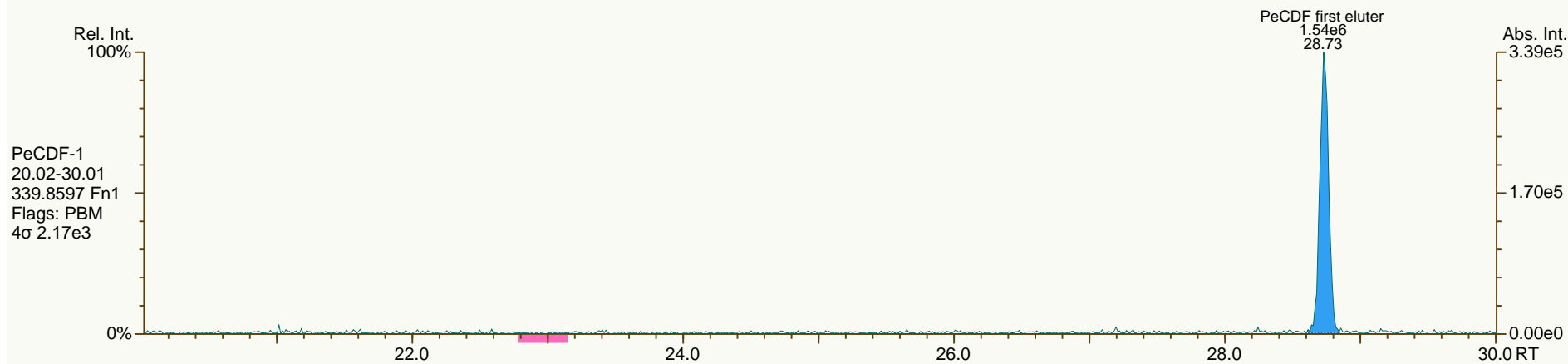
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SGS-AP ID: A5975_11402_DF_001RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-A-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

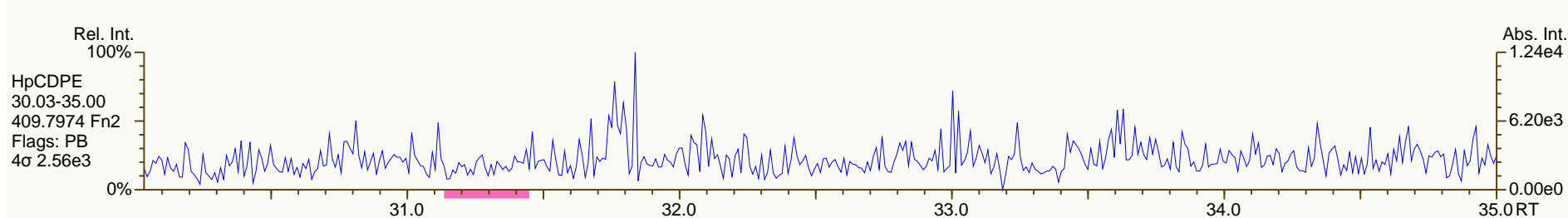
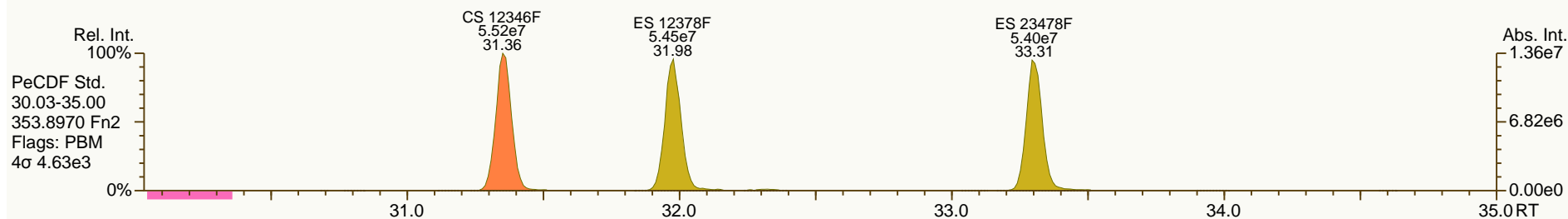
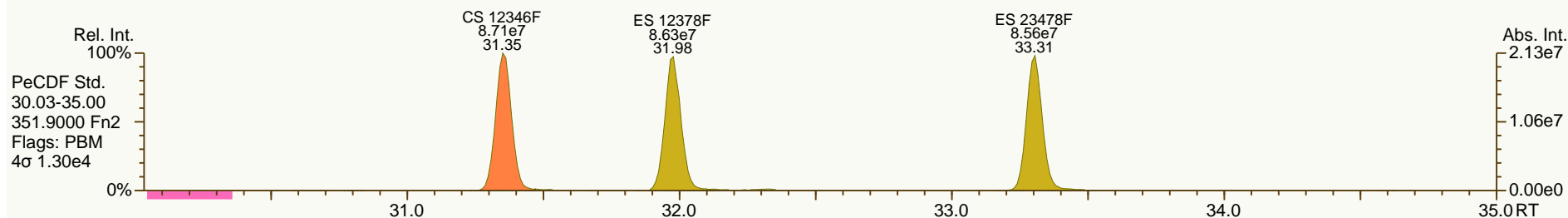
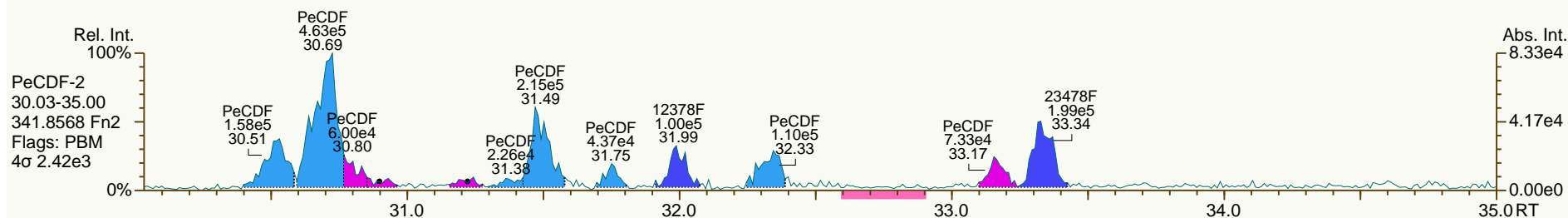
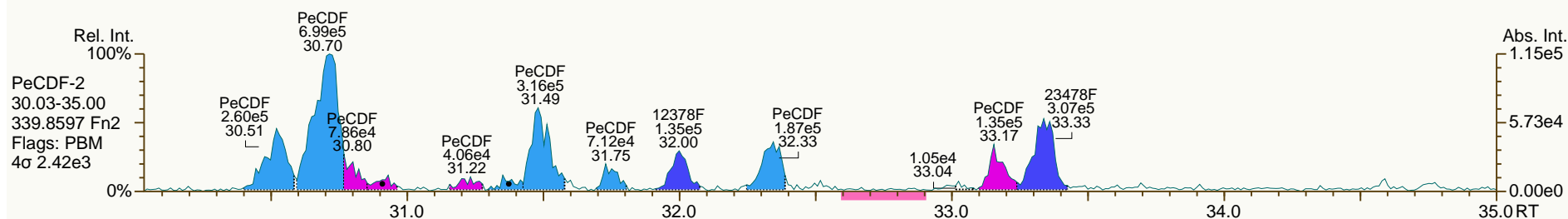
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SGS-AP ID: A5975_11402_DF_001RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-A-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

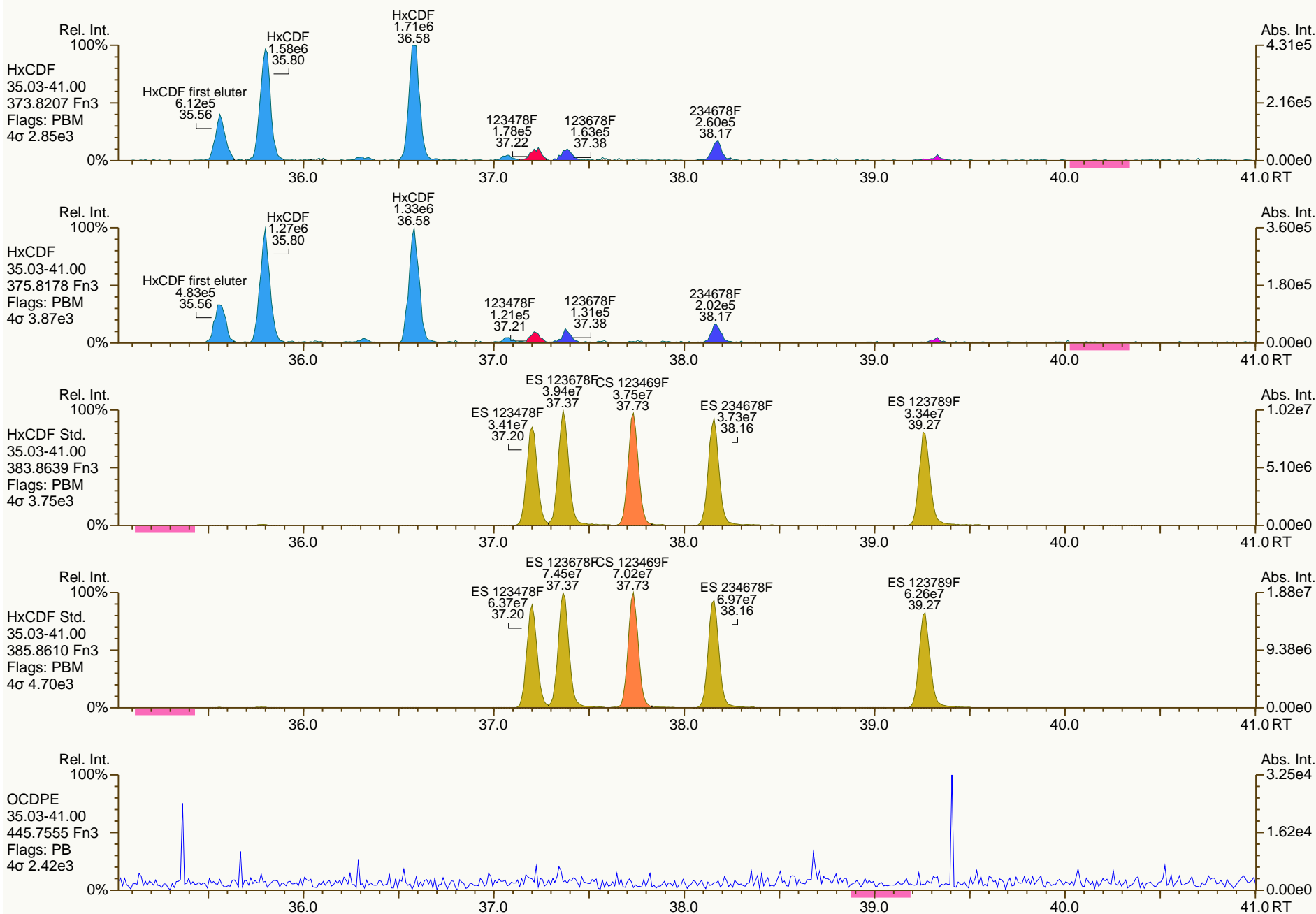
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SGS-AP ID: A5975_11402_DF_001RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-A-130928
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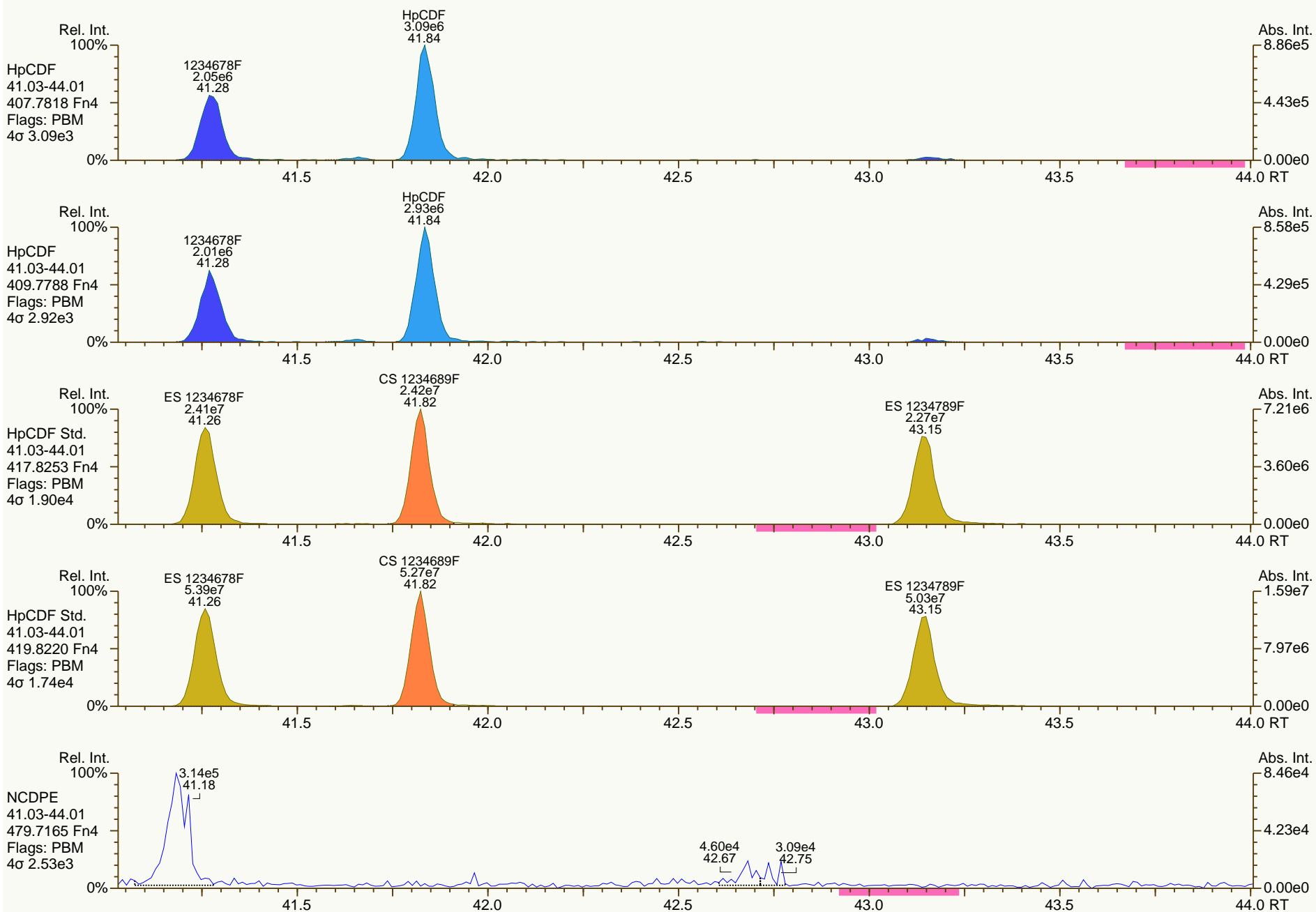
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SGS-AP ID: A5975_11402_DF_001RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-A-130928
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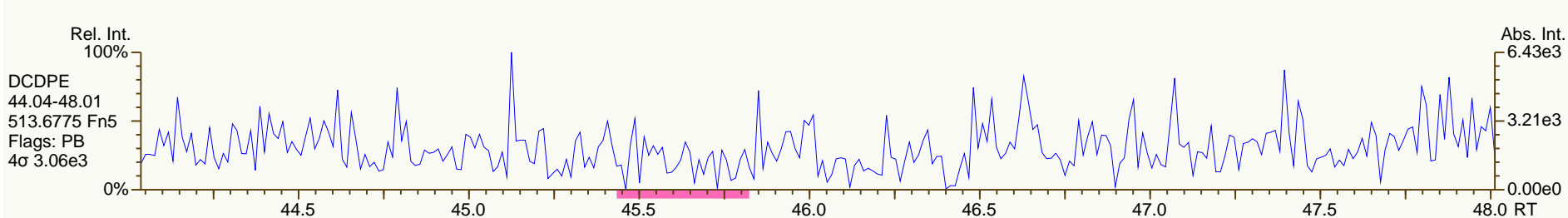
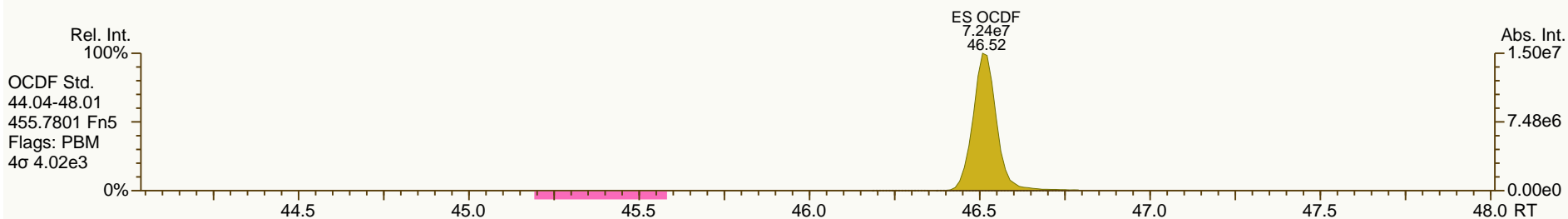
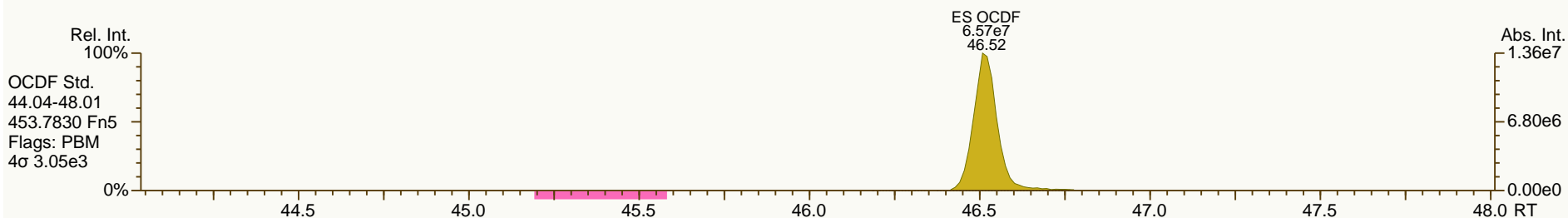
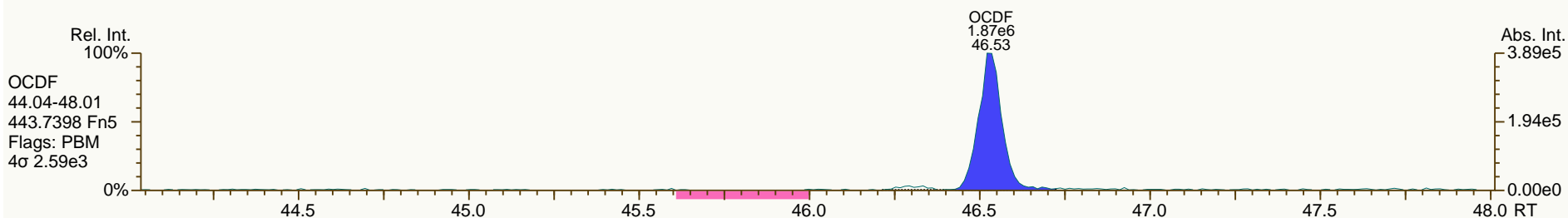
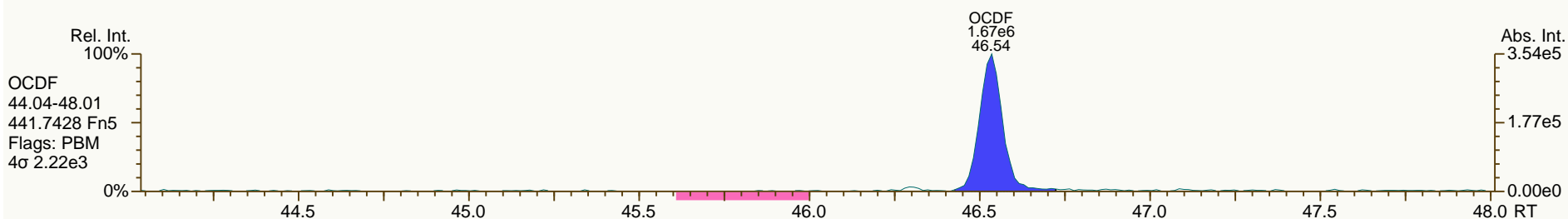
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SGS-AP ID: A5975_11402_DF_001RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-A-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

Acq: 14-OCT-2013 01:49:59
User: MDC Datafile: 131013P2-05



Lab ID: A5975_11402_DF_002RJ

Acq'd: 14 Oct 2013 02:42 MDC

Wt/Vol: 10.08 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: JW-SC401-B-130928

UTP: 15-Oct-2013 09:41 MDC

J-level: 0.496 pg/g

Split: 1

Checkcode: 154-115-VCR

Datafile: 131013P2-06

Report: 15 Oct 2013 09:42 MC

StdS (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37CI)

Name	Act RT	QC	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Conc.	Noise	DL
2378-TCDD	27.42		1.0009	1.0006	-0.5	7.60E+04	0.70	Y	1.18	0.116	4157	0.0739
12378-PeCDD	33.72		1.0007	1.0005	-0.4	1.11E+05	1.49	Y	1.07	0.22	5887	0.112
123478-HxCDD	38.39		1.0004	1.0005	+0.2	1.43E+05	1.18	Y	1.19	0.304	5904	0.113
123678-HxCDD	38.52		1.0039	1.0039	0	2.14E+05	1.19	Y	1.19	0.467	5904	0.126
123789-HxCDD	38.86		1.0127	1.0128	+0.2	2.00E+05	1.38	Y	1.12	0.402	5904	0.115
1234678-HpCDD	42.56		1.0004	1.0004	0	2.24E+06	1.06	Y	1.08	4.54	6584	0.13
OCDD	46.29		1.0003	1.0004	+0.3	4.29E+06	0.87	Y	1.14	12.9	6967	0.254
2378-TCDF	26.44		1.0009	1.0008	-0.2	8.74E+05	0.75	Y	1.10	0.928	4985	0.0626
12378-PeCDF	31.99		1.0006	1.0006	0	2.77E+05	1.53	Y	1.17	0.318	4980	0.0585
23478-PeCDF	33.33		1.0005	1.0009	+0.8	4.42E+05	1.53	Y	1.14	0.517	4980	0.0589
123478-HxCDF	37.21		1.0005	1.0004	-0.2	9.36E+04	1.45	N	1.34	0.127	4963	0.0633
123678-HxCDF	37.38		1.0005	1.0004	-0.2	9.87E+04	1.52	N	1.23	0.127	4963	0.0597
234678-HxCDF	38.16		1.0005	1.0001	-0.9	1.54E+05	1.12	Y	1.26	0.203	4963	0.0624
123789-HxCDF	NotFnd		1.0005	-	-	-	-	-	1.23	-	4963	0.0703
1234678-HpCDF	41.28		1.0004	1.0005	+0.2	1.53E+05	0.92	Y	1.42	0.239	5634	0.0853
1234789-HpCDF	NotFnd		1.0003	-	-	-	-	-	1.39	-	5634	0.0967
OCDF	46.53		1.0004	1.0004	0	7.88E+04	0.68	N	1.11	0.174	4747	0.131

Name	Act RT	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Rec. %
ES 2378-TCDD	27.41	1.0280	1.0280	0	1.10E+08	0.79	Y	1.02	93.9
ES 12378-PeCDD	33.71	1.2640	1.2643	+0.5	9.36E+07	1.58	Y	0.92	89.2
ES 123478-HxCDD	38.37	0.9909	0.9909	0	7.81E+07	1.22	Y	1.02	82.9
ES 123678-HxCDD	38.50	0.9943	0.9944	+0.2	7.63E+07	1.20	Y	1.01	82.2
ES 123789-HxCDD	38.84	1.0030	1.0032	+0.5	8.86E+07	1.19	Y	1.14	84.3
ES 1234678-HpCDD	42.54	1.0984	1.0987	+0.7	9.02E+07	1.08	Y	1.02	95.7
ES OCDD	46.27	1.1947	1.1950	+0.7	1.16E+08	0.88	Y	0.72	87
ES 2378-TCDF	26.42	1.0617	1.0619	+0.3	1.70E+08	0.73	Y	1.01	95.3
ES 12378-PeCDF	31.97	1.2848	1.2851	+0.4	1.48E+08	1.58	Y	0.89	94.3
ES 23478-PeCDF	33.30	1.3381	1.3384	+0.4	1.48E+08	1.57	Y	0.91	92.3
ES 123478-HxCDF	37.20	0.9606	0.9606	0	1.09E+08	0.54	Y	1.53	77.6
ES 123678-HxCDF	37.36	0.9649	0.9649	0	1.25E+08	0.53	Y	1.73	78.7
ES 234678-HxCDF	38.15	0.9851	0.9853	+0.5	1.20E+08	0.54	Y	1.61	80.8
ES 123789-HxCDF	39.26	1.0139	1.0140	+0.2	1.11E+08	0.53	Y	1.39	86.6
ES 1234678-HpCDF	41.26	1.0654	1.0655	+0.2	8.94E+07	0.44	Y	1.20	80.8
ES 1234789-HpCDF	43.15	1.1140	1.1142	+0.5	8.60E+07	0.44	Y	1.07	87.3
ES OCDF	46.52	1.2010	1.2013	+0.7	1.62E+08	0.90	Y	1.04	84.1

Lab ID: A5975_11402_DF_002RJ

Acq'd: 14 Oct 2013 02:42 MDC

Wt/Vol: 10.08 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: JW-SC401-B-130928

UTP: 15-Oct-2013 09:41 MDC

J-level: 0.496 pg/g Split: 1

Checkcode: 154-115-VCR

Datafile: 131013P2-06

Report: 15 Oct 2013 09:42 MC

StdS (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37Cl)

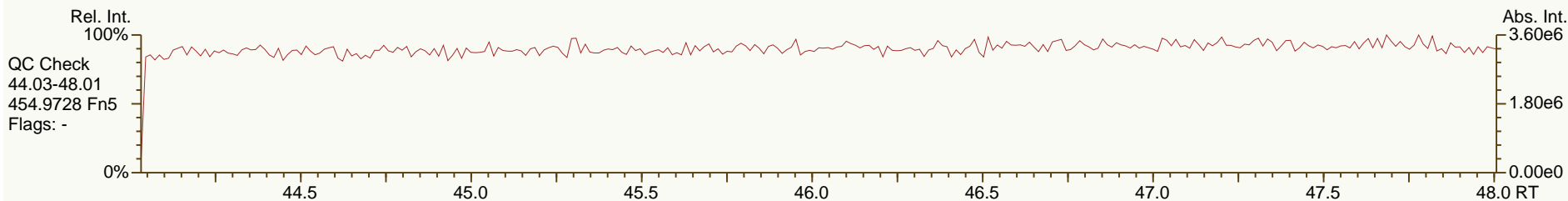
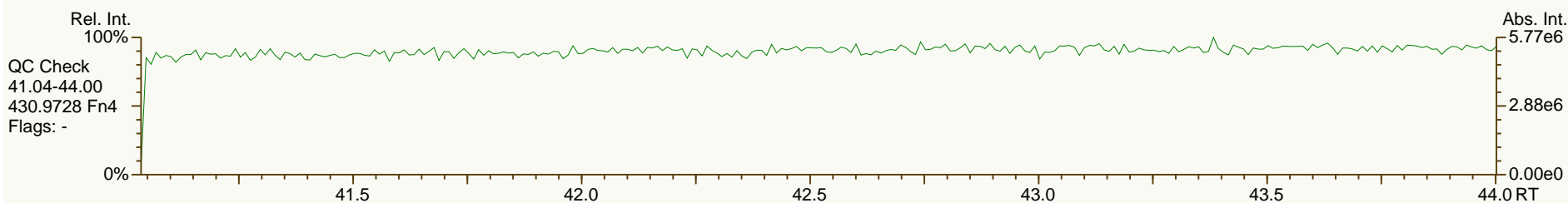
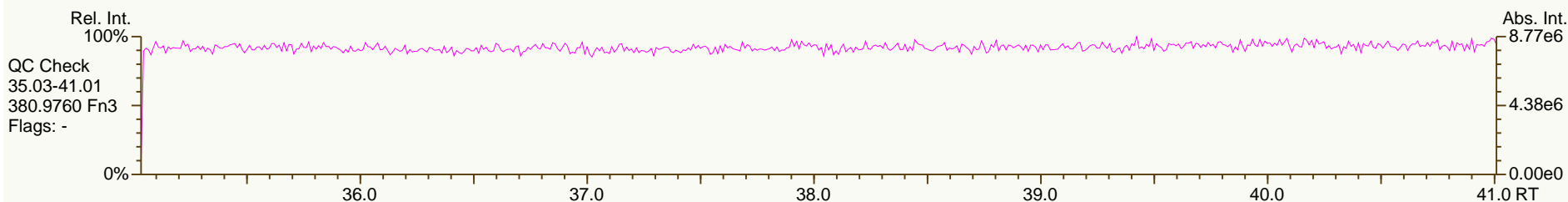
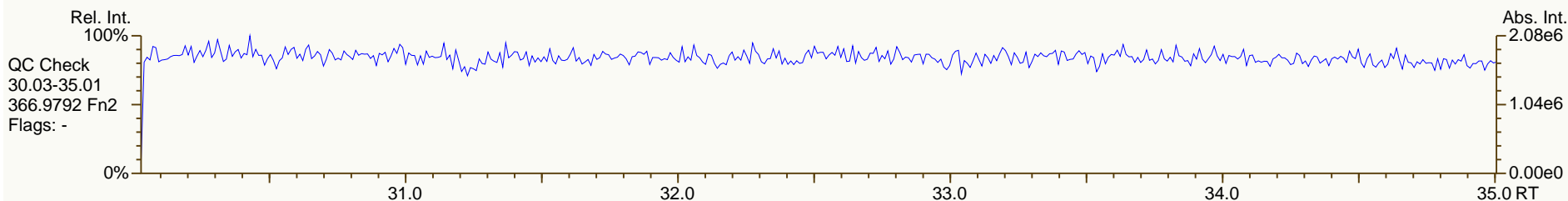
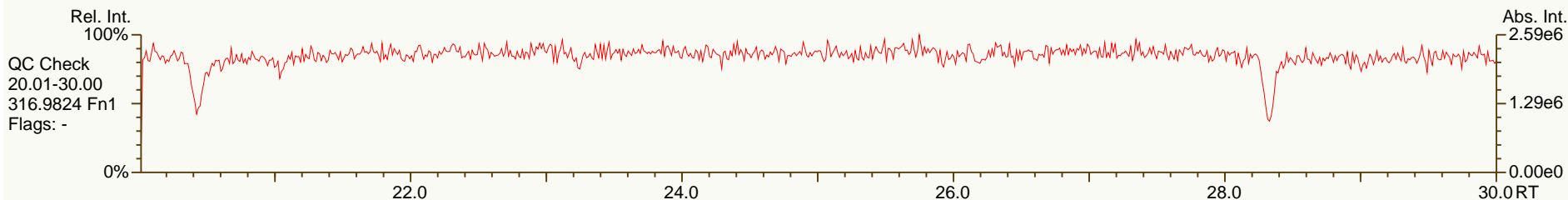
Name	Act RT	QC	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Rec. %
JS 1234-TCDD	26.66		-	-	-	1.14E+08	0.79	Y	-	-
JS 1234-TCDF	24.88		-	-	-	1.77E+08	0.72	Y	-	-
JS 123467-HxCDD	38.72		-	-	-	4.61E+07	1.23	Y	-	-
CS 37Cl-2378-TCDD	27.43		1.0289	1.0289	0	5.24E+07	n/a	-	1.13	101
CS 12347-PeCDD	33.11		1.2418	1.2420	+0.3	9.39E+07	1.55	Y	0.88	93.9
CS 12346-PeCDF	31.35		1.2599	1.2602	+0.4	1.50E+08	1.59	Y	0.90	94
CS 123469-HxCDF	37.73		0.9743	0.9743	0	1.16E+08	0.53	Y	1.40	89.7
CS 1234689-HpCDF	41.82		1.0798	1.0801	+0.7	9.58E+07	0.45	Y	1.09	95.2
SS 37Cl-2378-TCDD	27.43		1.0289	1.0289	0	5.24E+07	n/a	-	1.11	107
SS 12347-PeCDD	33.11		1.2418	1.2420	+0.3	9.39E+07	1.55	Y	0.96	105
SS 12346-PeCDF	31.35		1.2599	1.2602	+0.4	1.50E+08	1.59	Y	1.02	99.2
SS 123469-HxCDF	37.73		0.9743	0.9743	0	1.16E+08	0.53	Y	0.81	114
SS 1234689-HpCDF	41.82		1.0798	1.0801	+0.7	9.58E+07	0.45	Y	0.91	117
AS 1368-TCDD	23.29		0.8735	0.8734	-0.2	1.26E+08	0.78	Y	1.01	109
AS 1368-TCDF	21.10		0.8478	0.8480	+0.3	1.98E+08	0.73	Y	1.22	91.4
FS 1278-TCDD	NotFnd		1.0139							
FS 12478-PeCDD	NotFnd		0.9570							
FS 123468-HxCDD	NotFnd		0.9674							
FS 1234679-HpCDD	NotFnd		0.9788							
TS 1378-TCDD	NotFnd		0.9313							

Totals	Conc	EMPC		
Total TCDD	17.1	17.1	* 37Cl correction has been applied to 2378-TCDD	
Total PeCDD	12.7	12.8	Original Values	Corrected Values
Total HxCDD	19.2	20	Ratio 0.41	0.70
Total HpCDD	7.79	7.79	Response 1.07E+05	7.60E+04
Total Tetra-Octa Dioxins	69.6	70.5		
Total TCDF	15.8	15.9		
Total PeCDF	5.03	5.18		
Total HxCDF	1.19	1.78		
Total HpCDF	0.239	0.35		
Total Tetra-Octa Furans	22.3	23.4		
Total Tetra-Octa Dioxins & Furans	91.8	93.9		

SGS-AP ID: A5975_11402_DF_002RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-B-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

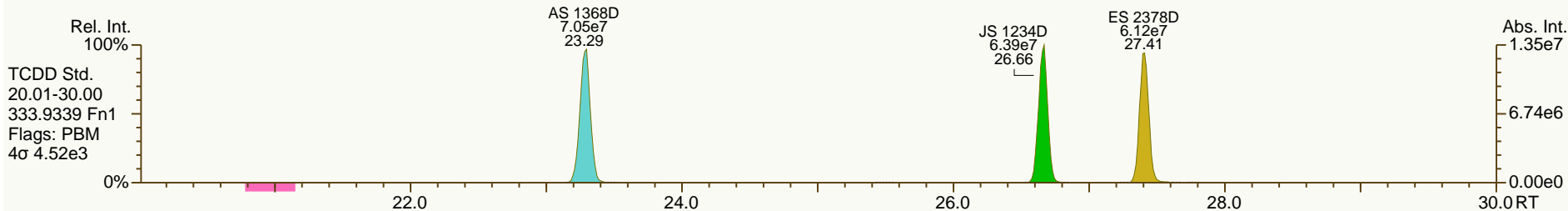
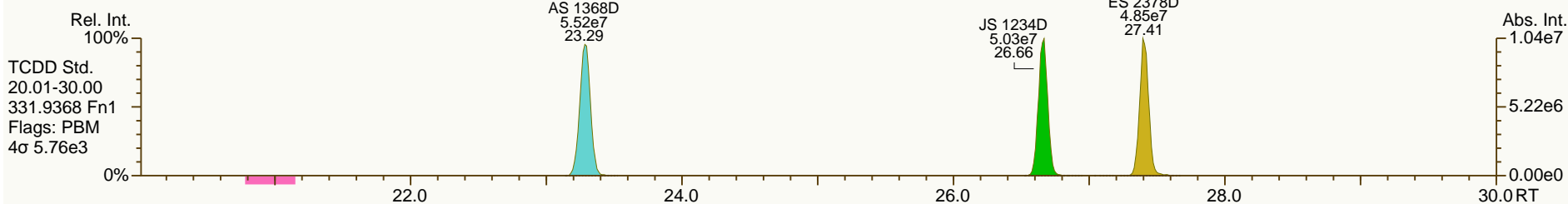
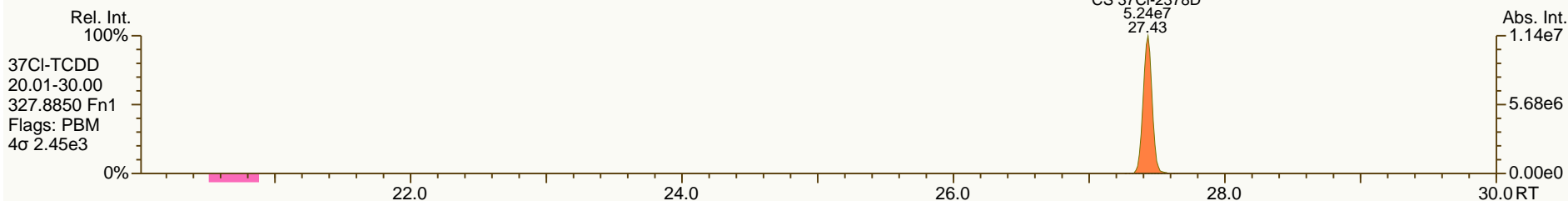
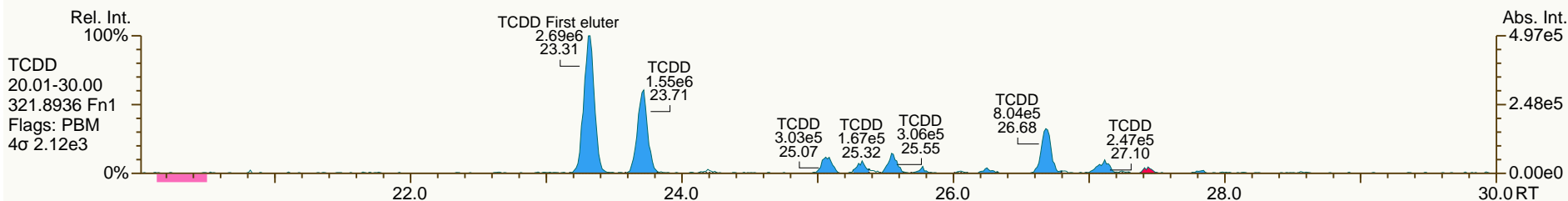
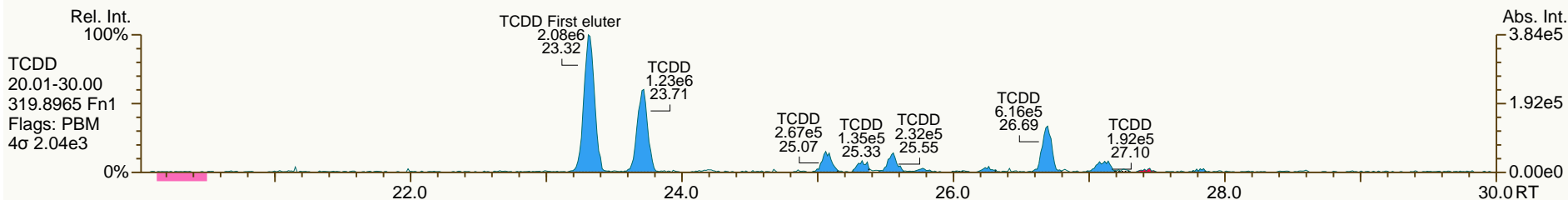
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SGS-AP ID: A5975_11402_DF_002RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-B-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

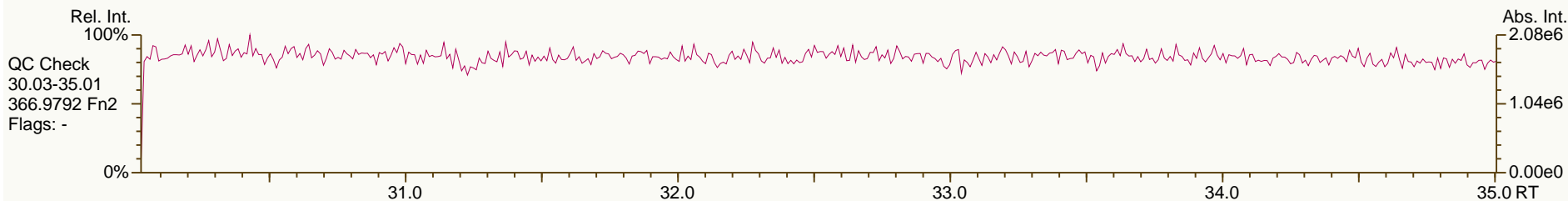
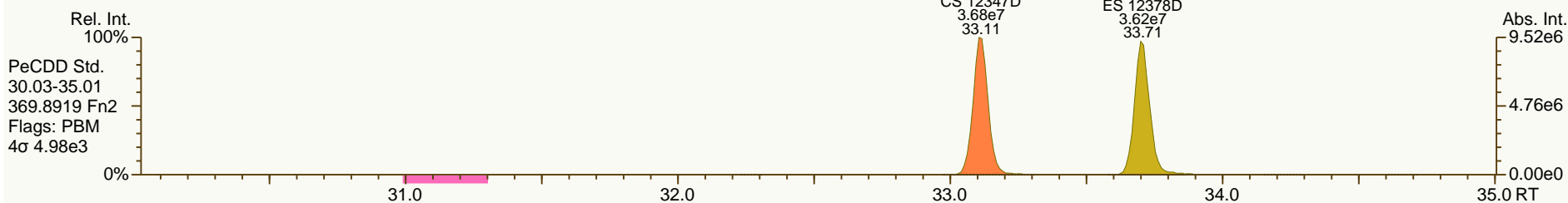
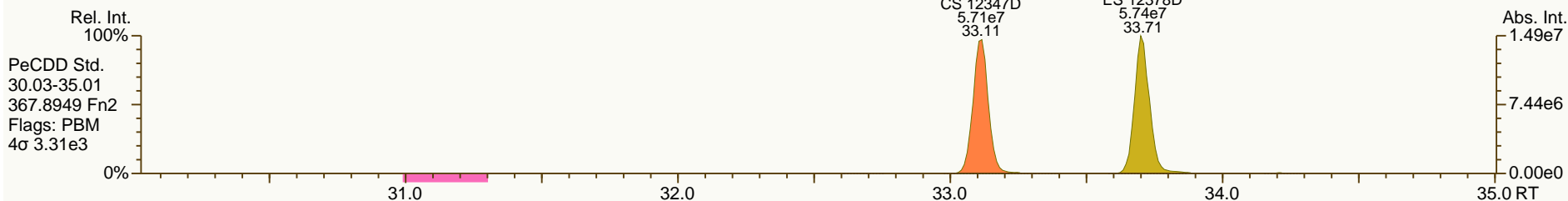
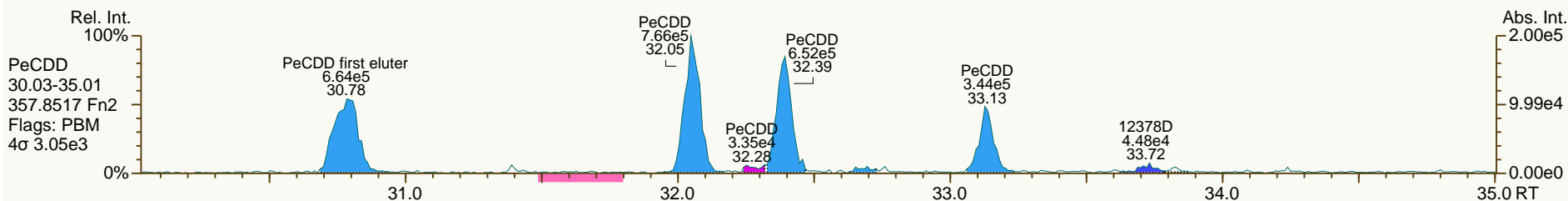
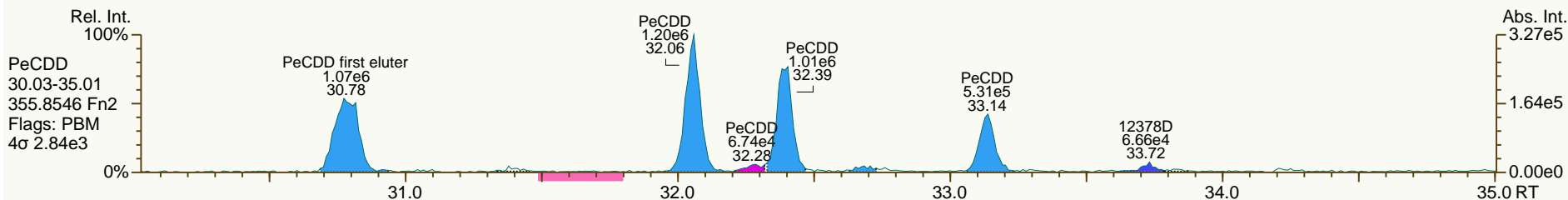
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SGS-AP ID: A5975_11402_DF_002RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-B-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

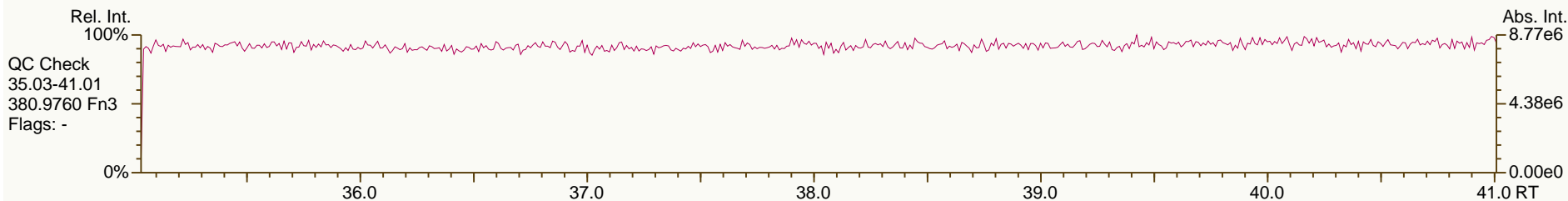
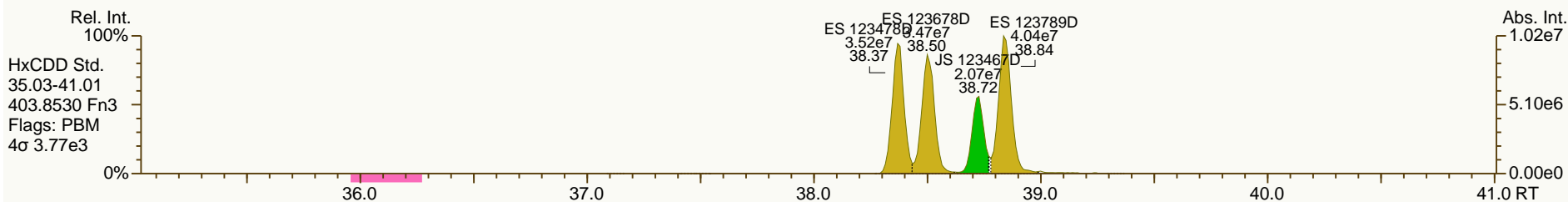
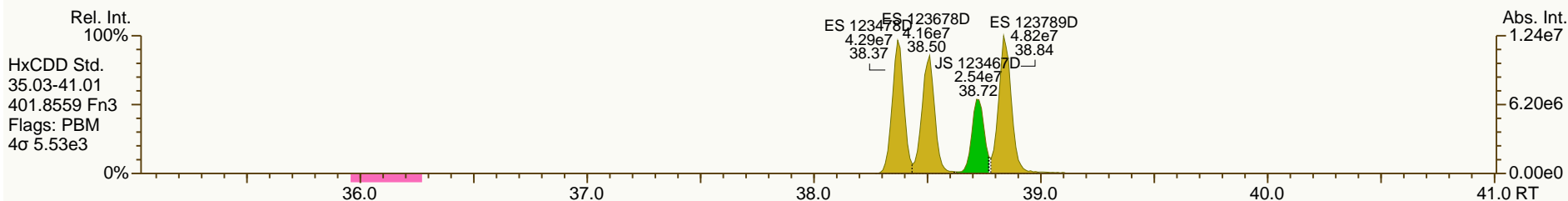
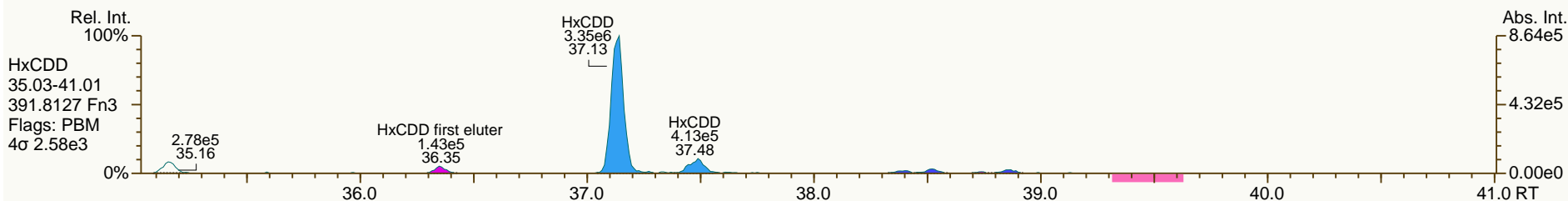
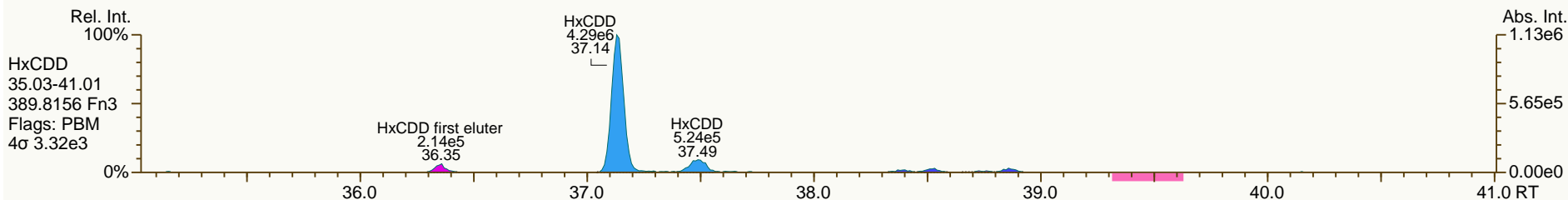
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SGS-AP ID: A5975_11402_DF_002RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-B-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

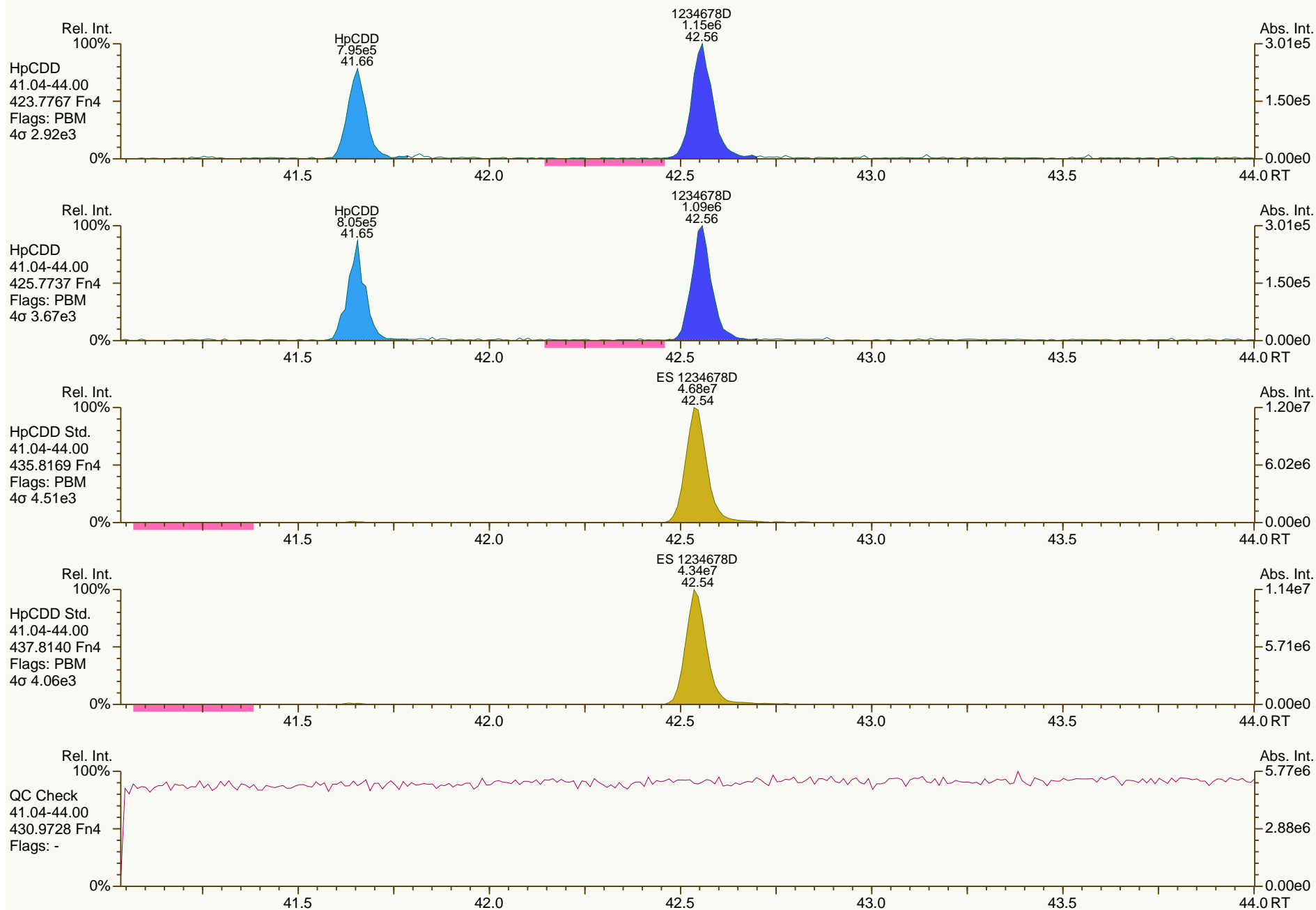
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SGS-AP ID: A5975_11402_DF_002RJ
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Sample ID: JW-SC401-B-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

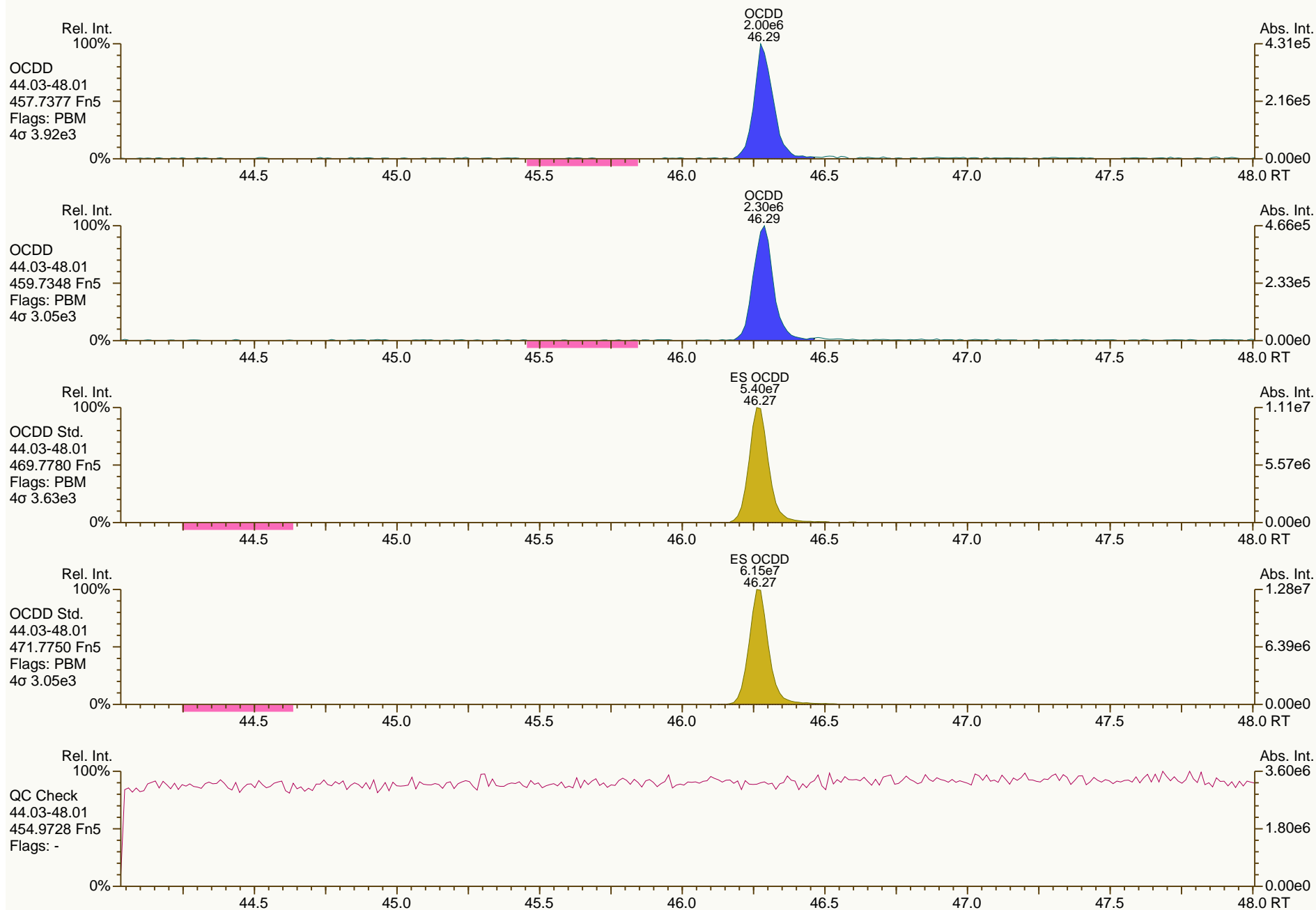
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SGS-AP ID: A5975_11402_DF_002RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-B-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

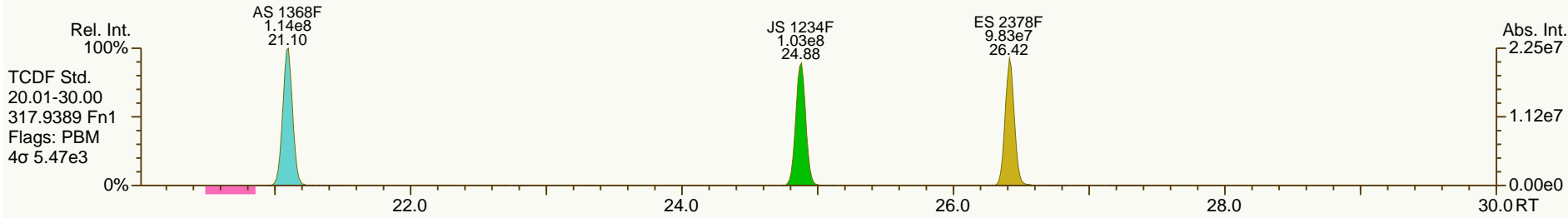
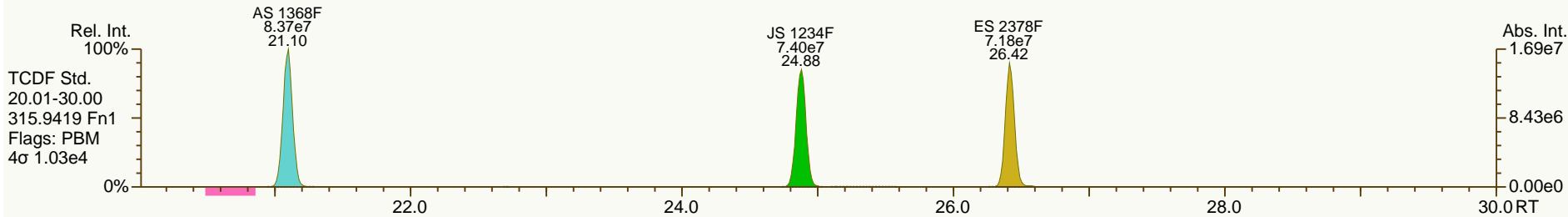
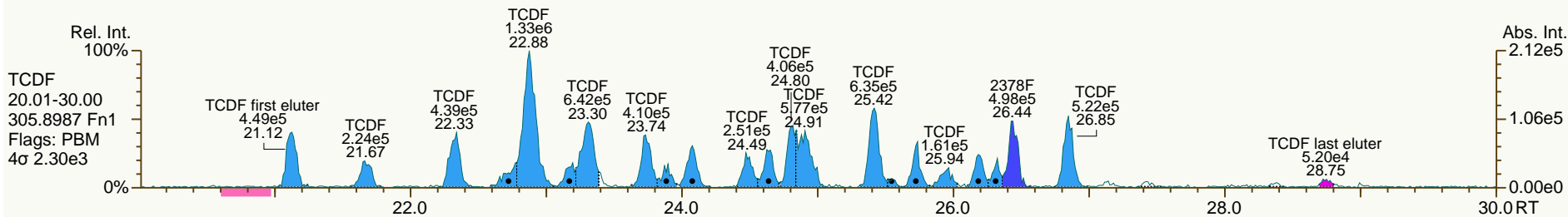
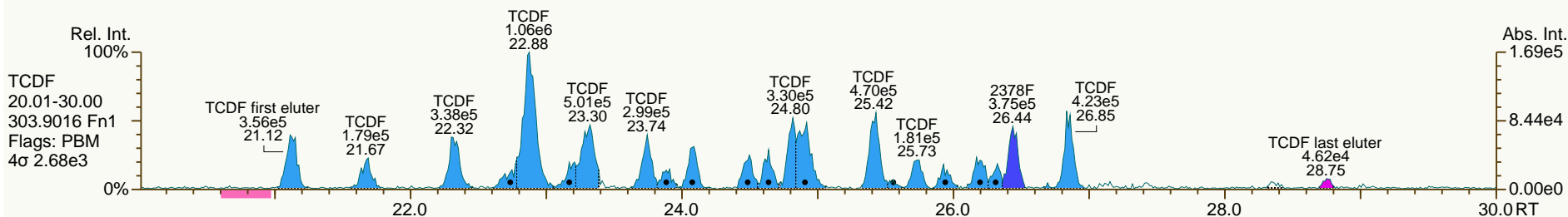
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SGS-AP ID: A5975_11402_DF_002RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-B-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

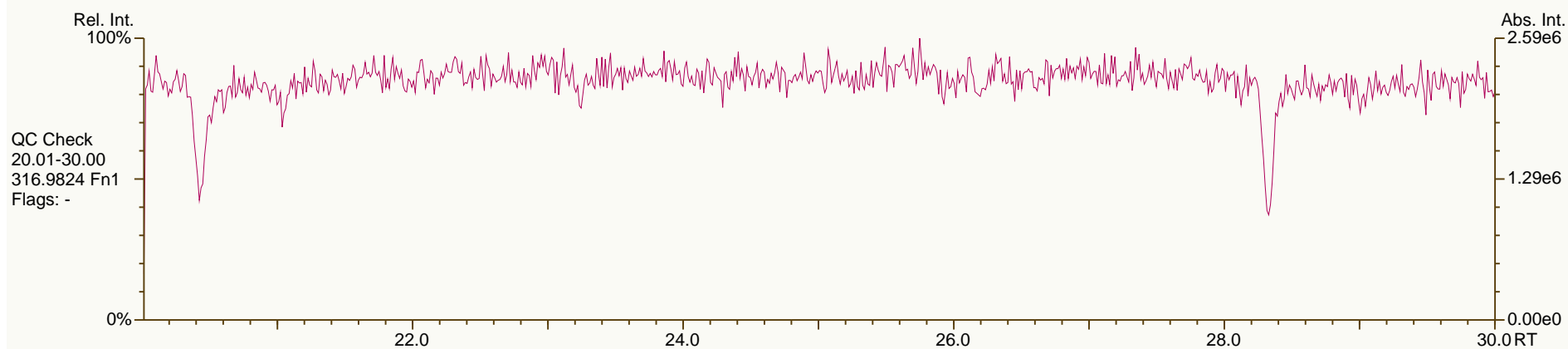
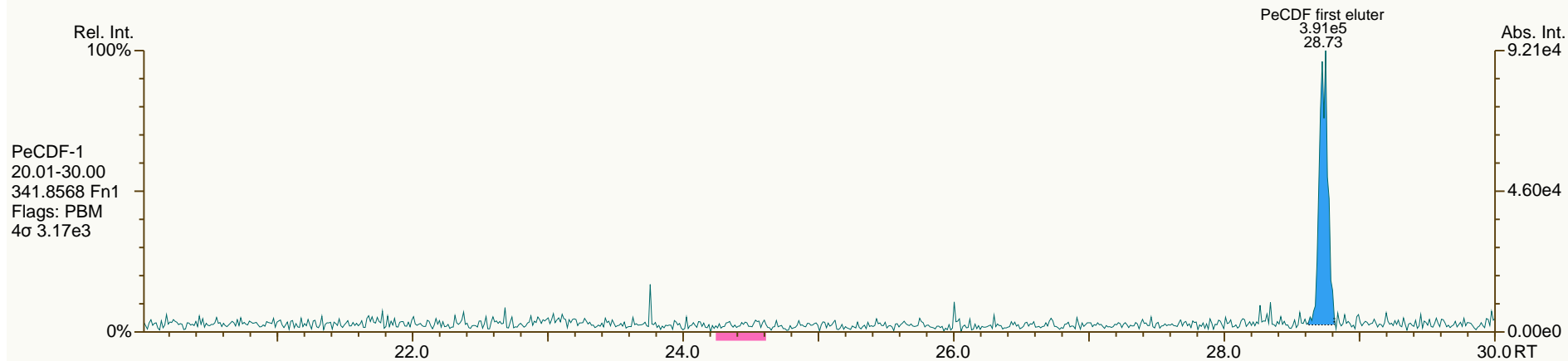
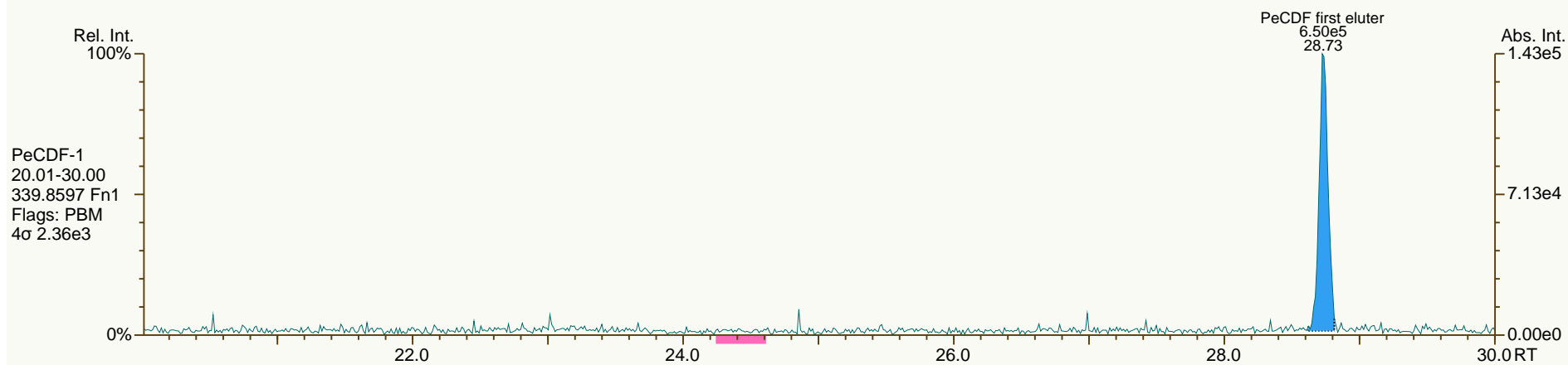
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SGS-AP ID: A5975_11402_DF_002RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-B-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

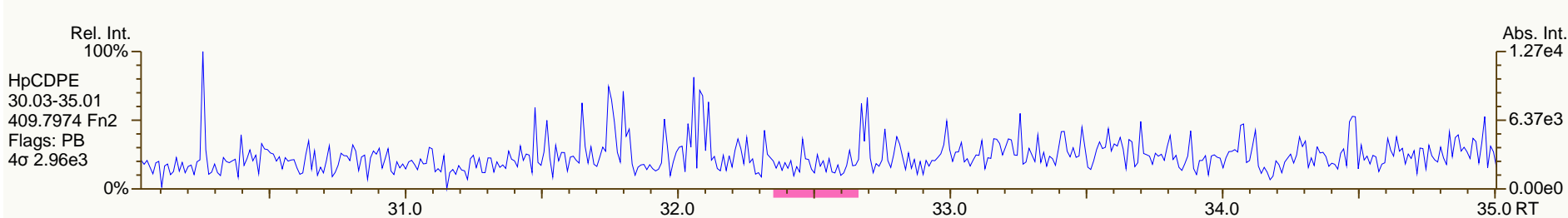
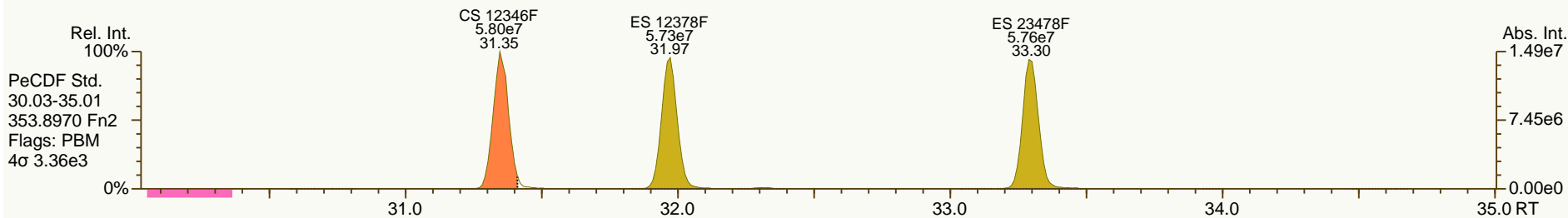
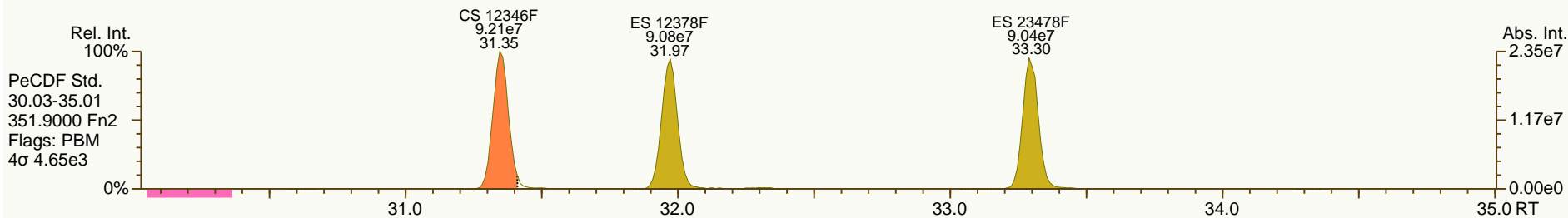
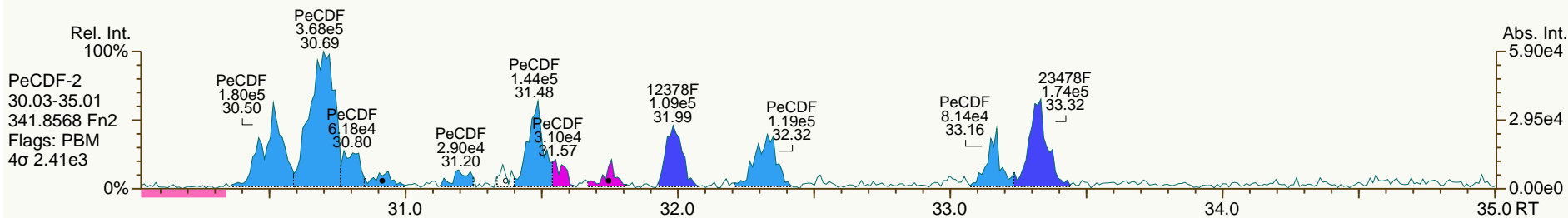
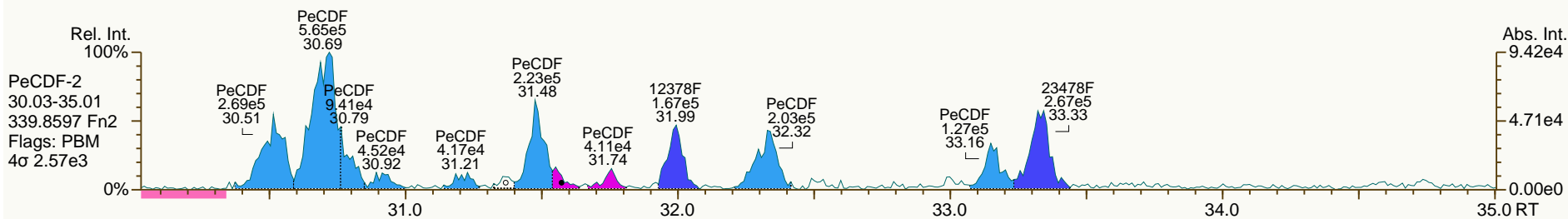
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SGS-AP ID: A5975_11402_DF_002RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-B-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

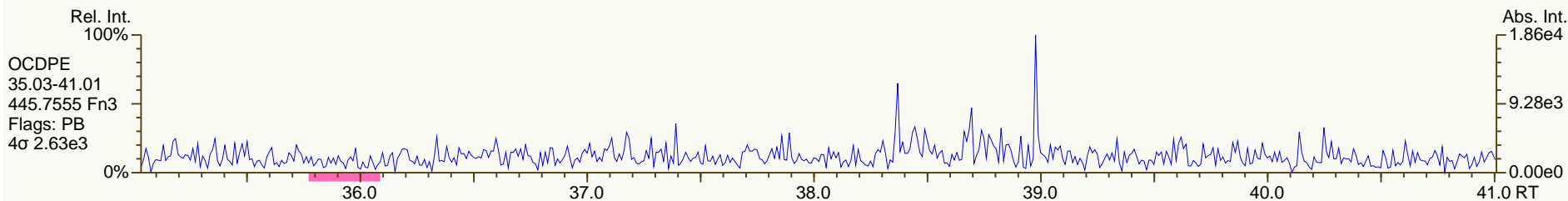
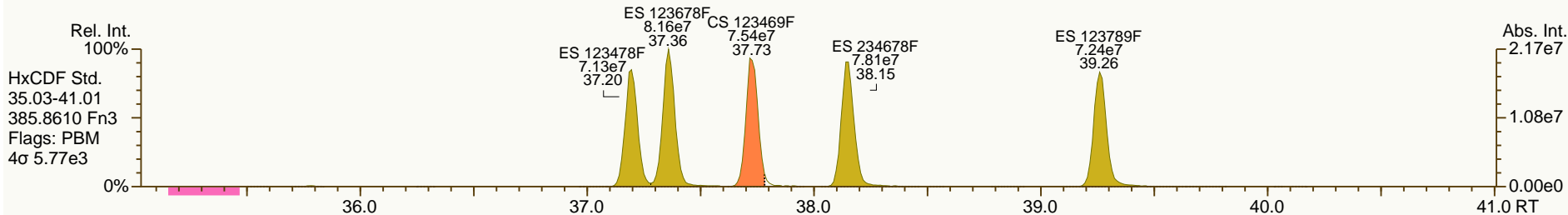
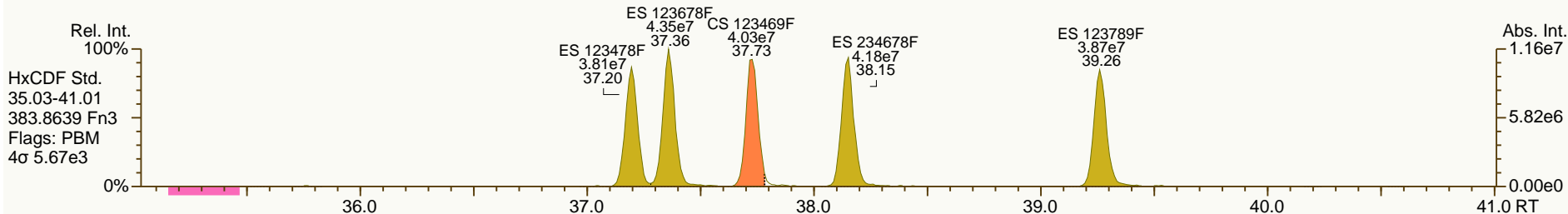
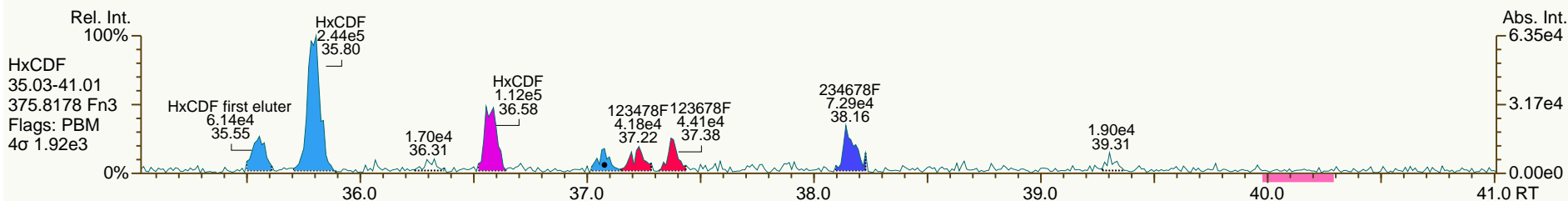
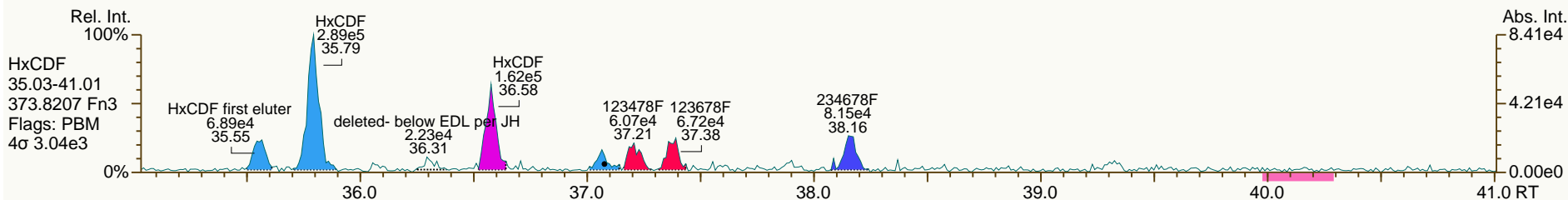
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SGS-AP ID: A5975_11402_DF_002RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-B-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

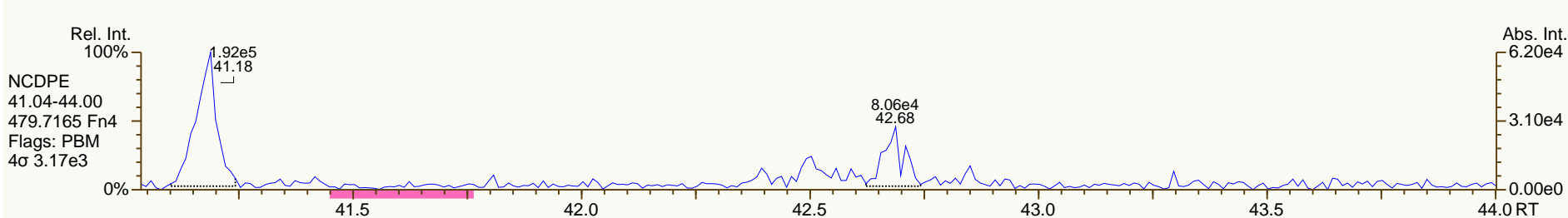
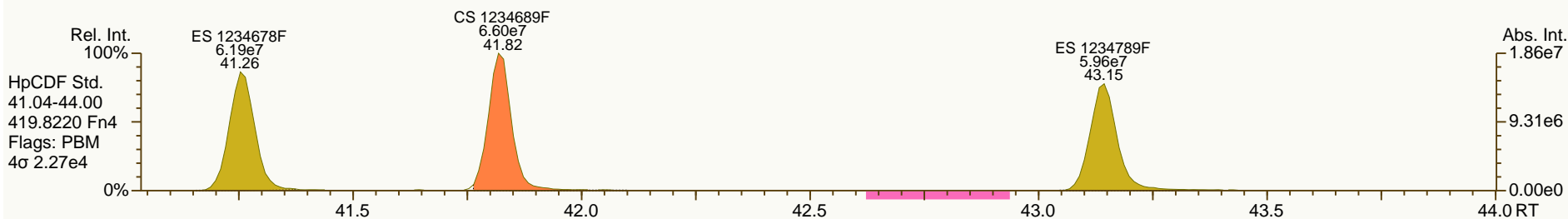
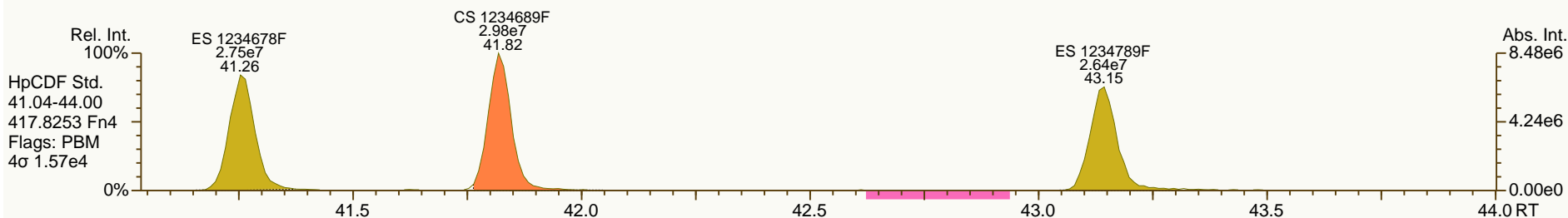
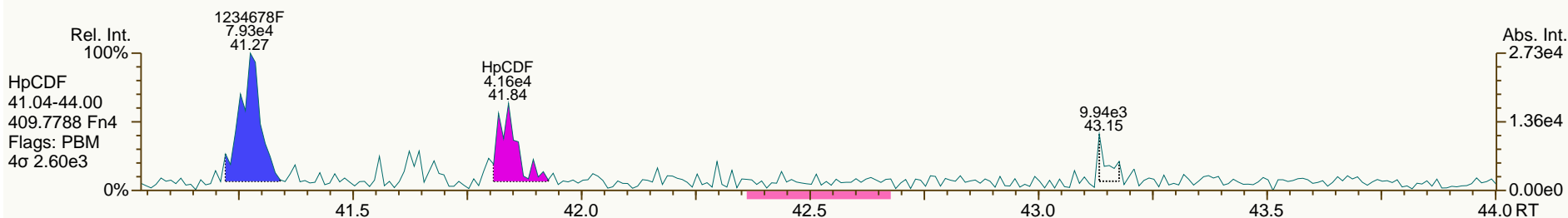
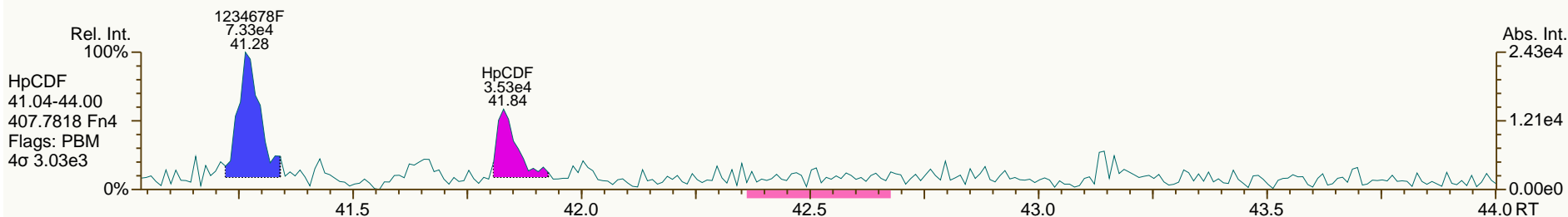
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SGS-AP ID: A5975_11402_DF_002RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-B-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

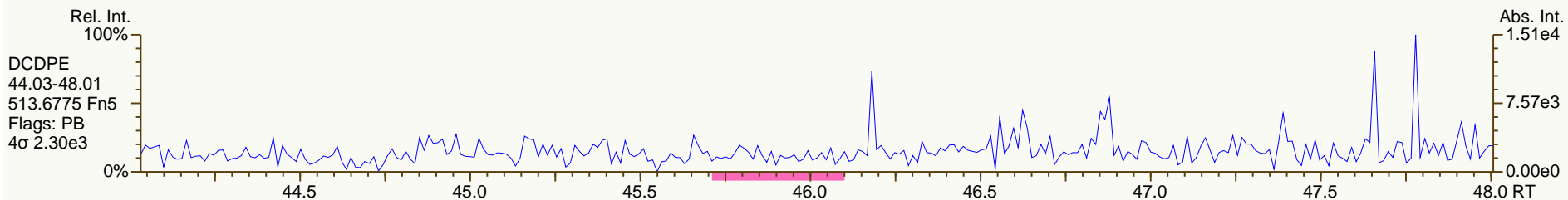
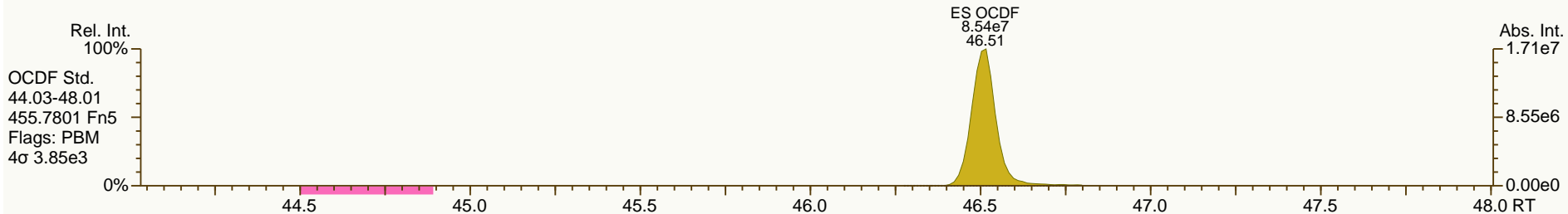
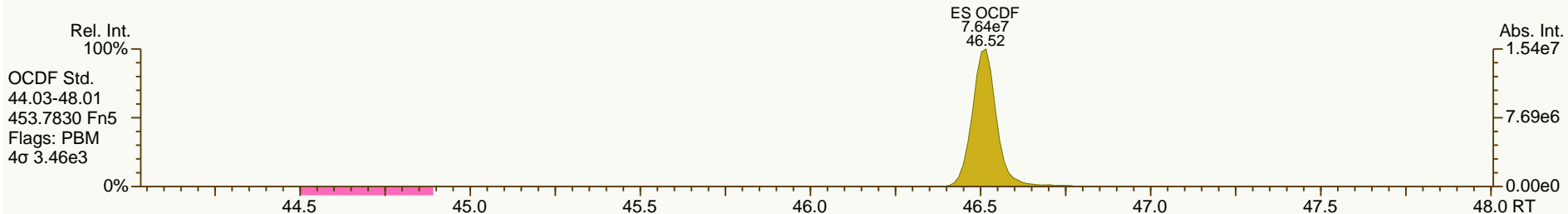
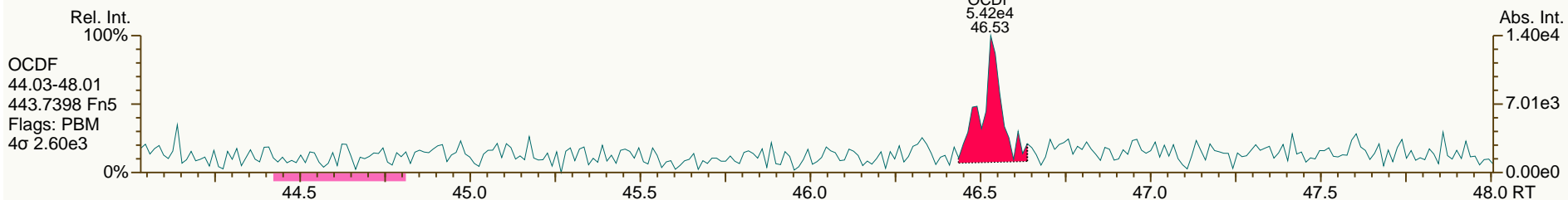
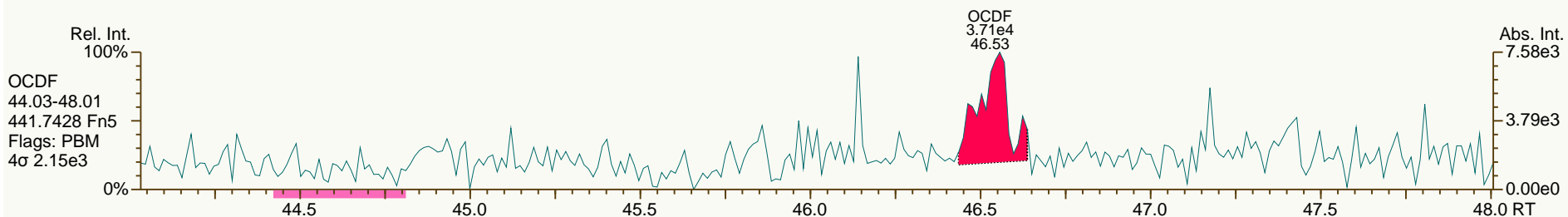
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SGS-AP ID: A5975_11402_DF_002RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-B-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

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Lab ID: A5975_11402_DF_003RJ

Acq'd: 14 Oct 2013 03:35 MDC

Wt/Vol: 10.06 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: JW-SC401-C-130928

UTP: 15-Oct-2013 09:45 MDC

J-level: 0.497 pg/g

Split: 1

Checkcode: 356-778-NZZ

Datafile: 131013P2-07

Report: 15 Oct 2013 09:45 MC

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37CI)

Name	Act RT	QC	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Conc.	Noise	DL
2378-TCDD	NotFnd		1.0009	-		-	-	-	1.18	-	4549	0.101
12378-PeCDD	NotFnd		1.0007	-		-	-	-	1.07	-	4141	0.0947
123478-HxCDD	NotFnd		1.0004	-		-	-	-	1.19	-	4236	0.102
123678-HxCDD	NotFnd		1.0039	-		-	-	-	1.19	-	4236	0.106
123789-HxCDD	38.87		1.0127	1.0129	+0.5	6.30E+04	1.10	Y	1.12	0.142	4236	0.0994
1234678-HpCDD	42.56		1.0004	1.0003	-0.3	3.23E+05	1.03	Y	1.08	0.859	6505	0.167
OCDD	46.29		1.0003	1.0003	0	2.35E+06	0.88	Y	1.14	9.19	6043	0.264
2378-TCDF	26.42		1.0009	1.0007	-0.3	2.25E+05	0.93	N	1.10	0.297	4349	0.0687
12378-PeCDF	31.99		1.0006	1.0004	-0.4	4.85E+04	1.09	N	1.17	0.0635	3738	0.0544
23478-PeCDF	33.32		1.0005	1.0006	+0.2	7.85E+04	1.56	Y	1.14	0.108	3738	0.051
123478-HxCDF	NotFnd		1.0005	-		-	-	-	1.34	-	4962	0.0785
123678-HxCDF	NotFnd		1.0005	-		-	-	-	1.23	-	4962	0.0747
234678-HxCDF	NotFnd		1.0005	-		-	-	-	1.26	-	4962	0.0797
123789-HxCDF	NotFnd		1.0005	-		-	-	-	1.23	-	4962	0.0943
1234678-HpCDF	NotFnd		1.0004	-		-	-	-	1.42	-	4863	0.0938
1234789-HpCDF	NotFnd		1.0003	-		-	-	-	1.39	-	4863	0.102
OCDF	NotFnd		1.0004	-		-	-	-	1.11	-	4768	0.161

Name	Act RT	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Rec. %
ES 2378-TCDD	27.40	1.0280	1.0282	+0.3	8.86E+07	0.78	Y	1.02	89.6
ES 12378-PeCDD	33.71	1.2640	1.2653	+2.1	8.22E+07	1.59	Y	0.92	92.5
ES 123478-HxCDD	38.37	0.9909	0.9909	0	6.81E+07	1.22	Y	1.02	74.3
ES 123678-HxCDD	38.51	0.9943	0.9943	0	6.68E+07	1.20	Y	1.01	74.1
ES 123789-HxCDD	38.85	1.0030	1.0031	+0.2	7.88E+07	1.24	Y	1.14	77.2
ES 1234678-HpCDD	42.55	1.0984	1.0986	+0.5	6.88E+07	1.08	Y	1.02	75.2
ES OCDD	46.28	1.1947	1.1949	+0.5	8.91E+07	0.89	Y	0.72	69.1
ES 2378-TCDF	26.40	1.0617	1.0621	+0.6	1.37E+08	0.71	Y	1.01	84.1
ES 12378-PeCDF	31.97	1.2848	1.2861	+1.9	1.30E+08	1.55	Y	0.89	91
ES 23478-PeCDF	33.30	1.3381	1.3395	+2.1	1.26E+08	1.57	Y	0.91	86.1
ES 123478-HxCDF	37.20	0.9606	0.9606	0	9.30E+07	0.52	Y	1.53	67.9
ES 123678-HxCDF	37.37	0.9649	0.9649	0	1.12E+08	0.53	Y	1.73	72.3
ES 234678-HxCDF	38.16	0.9851	0.9853	+0.5	9.99E+07	0.53	Y	1.61	69.2
ES 123789-HxCDF	39.27	1.0139	1.0140	+0.2	9.13E+07	0.53	Y	1.39	73.2
ES 1234678-HpCDF	41.26	1.0654	1.0654	0	7.26E+07	0.46	Y	1.20	67.6
ES 1234789-HpCDF	43.15	1.1140	1.1142	+0.5	6.68E+07	0.44	Y	1.07	69.7
ES OCDF	46.51	1.2010	1.2010	0	1.21E+08	0.91	Y	1.04	64.5

Lab ID: A5975_11402_DF_003RJ

Acq'd: 14 Oct 2013 03:35 MDC

Wt/Vol: 10.06 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: JW-SC401-C-130928

UTP: 15-Oct-2013 09:45 MDC

J-level: 0.497 pg/g

Split: 1

Checkcode: 356-778-NZZ

Datafile: 131013P2-07

Report: 15 Oct 2013 09:45 MC

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37CI)

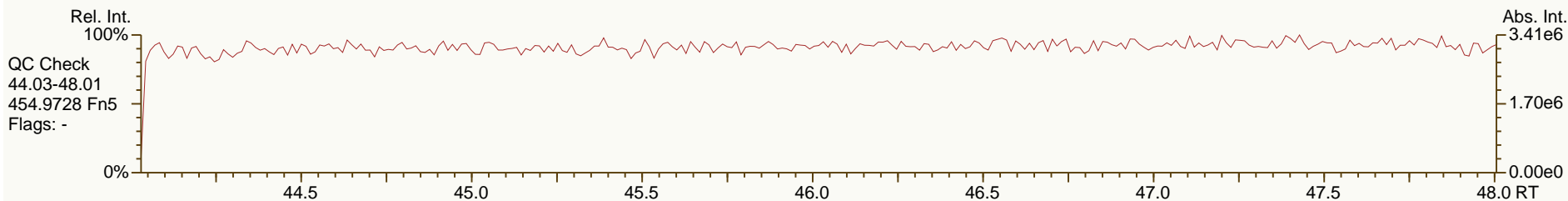
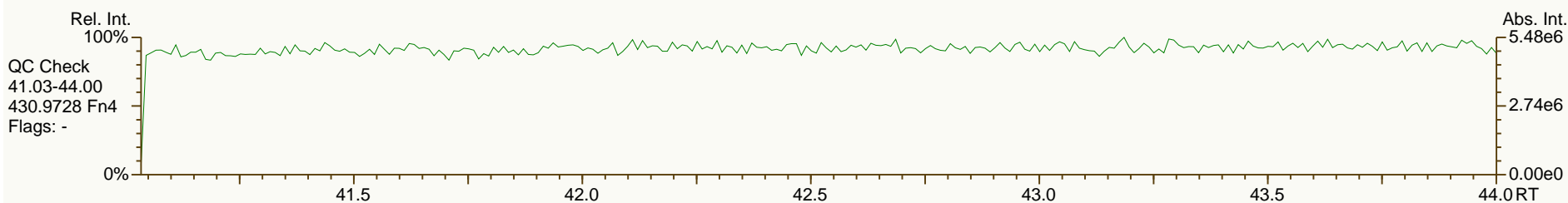
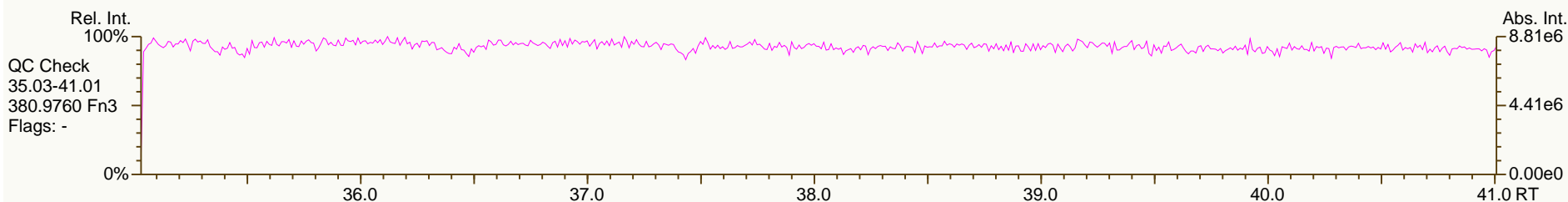
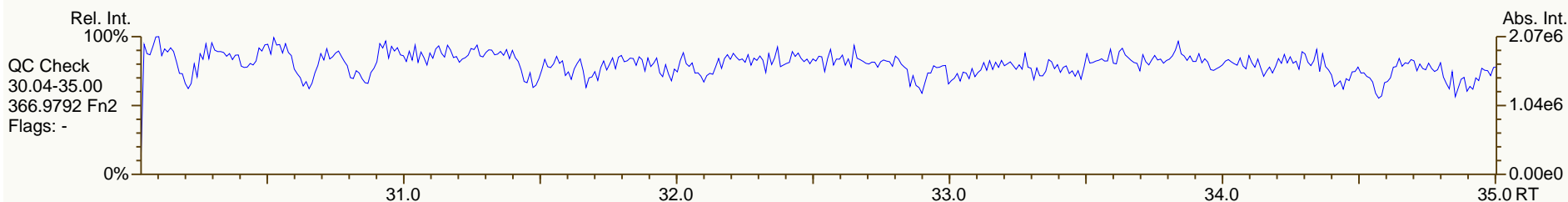
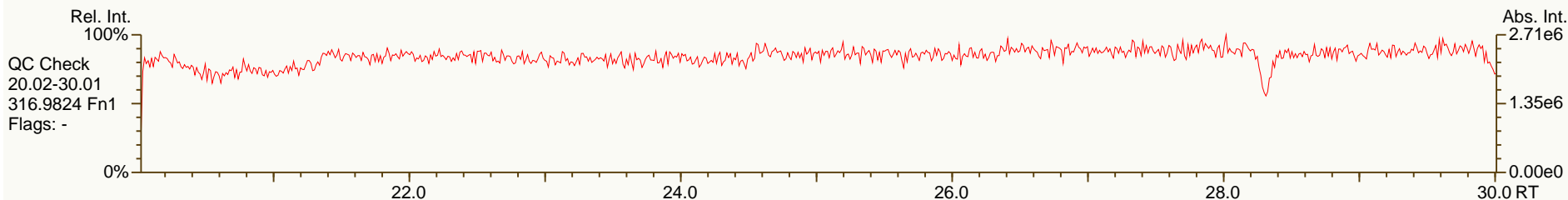
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JS 1234-TCDD	26.65		-	-	-	9.67E+07	0.79	Y	-	-
JS 1234-TCDF	24.86		-	-	-	1.62E+08	0.74	Y	-	-
JS 123467-HxCDD	38.73		-	-	-	4.48E+07	1.22	Y	-	-
CS 37C1-2378-TCDD	27.42		1.0289	1.0292	+0.5	4.05E+07	n/a	-	1.13	92.4
CS 12347-PeCDD	33.12		1.2418	1.2429	+1.8	8.26E+07	1.60	Y	0.88	97.6
CS 12346-PeCDF	31.35		1.2599	1.2609	+1.5	1.30E+08	1.57	Y	0.90	89.3
CS 123469-HxCDF	37.73		0.9743	0.9744	+0.2	1.04E+08	0.54	Y	1.40	82.9
CS 1234689-HpCDF	41.82		1.0798	1.0799	+0.2	7.03E+07	0.45	Y	1.09	71.9
SS 37C1-2378-TCDD	27.42		1.0289	1.0292	+0.5	4.05E+07	n/a	-	1.11	102
SS 12347-PeCDD	33.12		1.2418	1.2429	+1.8	8.26E+07	1.60	Y	0.96	105
SS 12346-PeCDF	31.35		1.2599	1.2609	+1.5	1.30E+08	1.57	Y	1.02	97.6
SS 123469-HxCDF	37.73		0.9743	0.9744	+0.2	1.04E+08	0.54	Y	0.81	114
SS 1234689-HpCDF	41.82		1.0798	1.0799	+0.2	7.03E+07	0.45	Y	0.91	106
AS 1368-TCDD	23.26		0.8735	0.8731	-0.6	1.02E+08	0.79	Y	1.01	104
AS 1368-TCDF	21.06		0.8478	0.8472	-0.9	1.62E+08	0.78	Y	1.22	82.3
FS 1278-TCDD	NotFnd		1.0139							
FS 12478-PeCDD	NotFnd		0.9570							
FS 123468-HxCDD	NotFnd		0.9674							
FS 1234679-HpCDD	NotFnd		0.9788							
TS 1378-TCDD	NotFnd		0.9313							

Totals	Conc	EMPC
Total TCDD	1.87	2.27
Total PeCDD	0.931	0.931
Total HxCDD	1.64	1.64
Total HpCDD	2.14	2.14
Total Tetra-Octa Dioxins	15.8	16.2
Total TCDF	1.72	2.41
Total PeCDF	0.408	0.545
Total HxCDF	0.0859	0.0859
Total HpCDF	0	0
Total Tetra-Octa Furans	2.22	3.05
Total Tetra-Octa Dioxins & Furans	18	19.2

SGS-AP ID: A5975_11402_DF_003RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-C-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

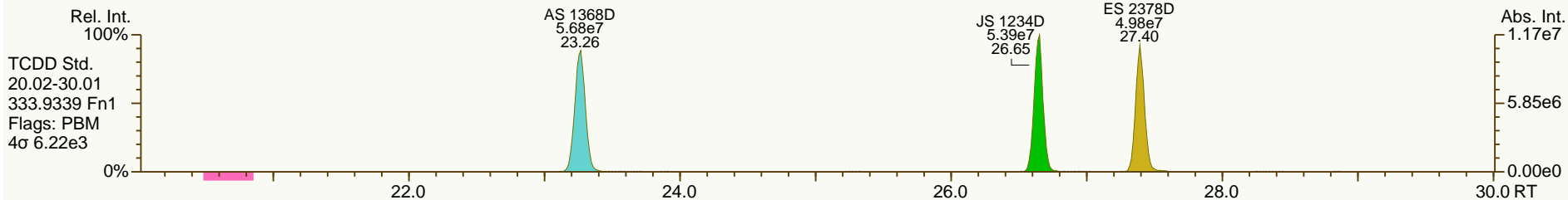
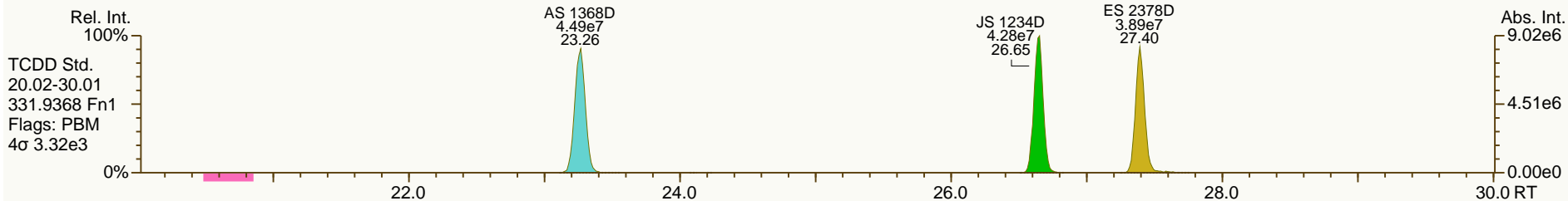
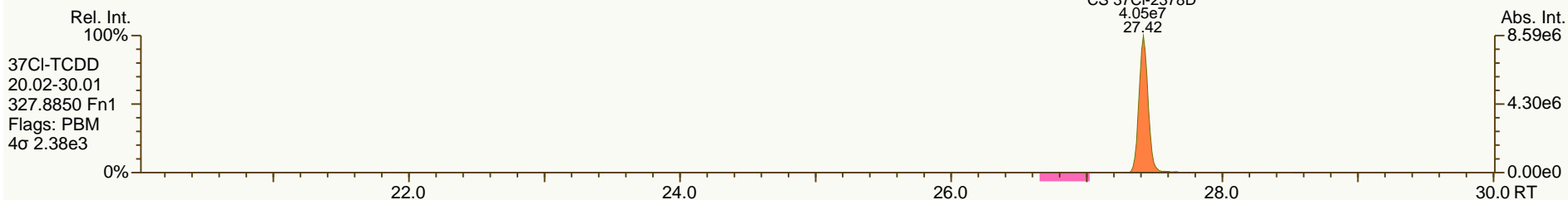
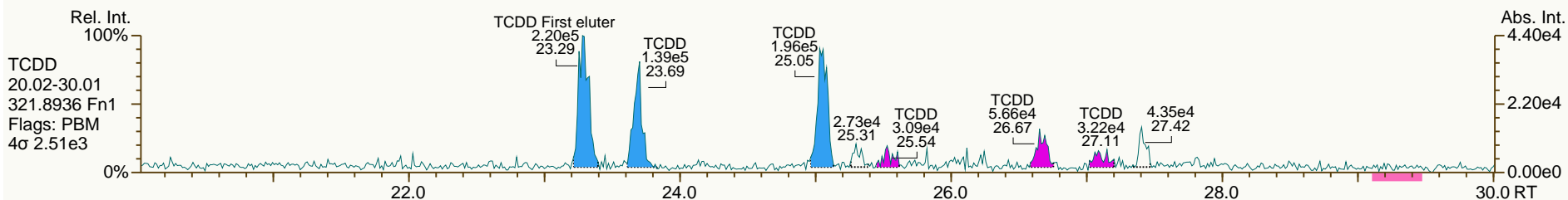
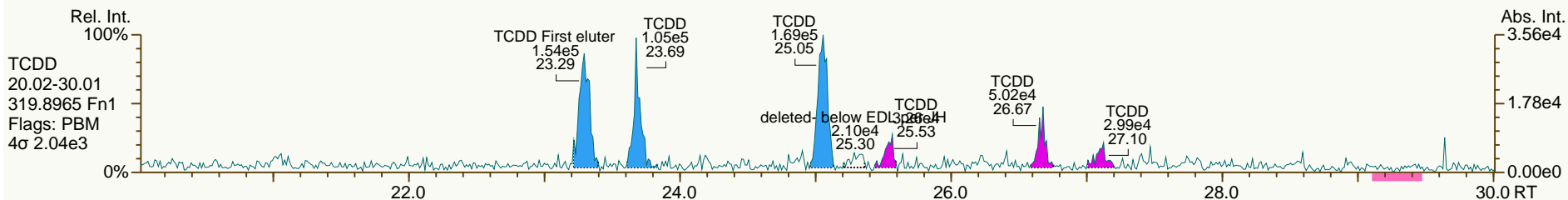
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SGS-AP ID: A5975_11402_DF_003RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-C-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

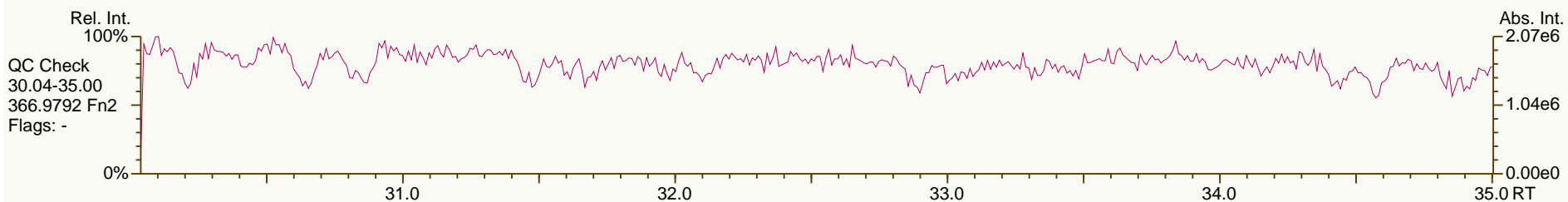
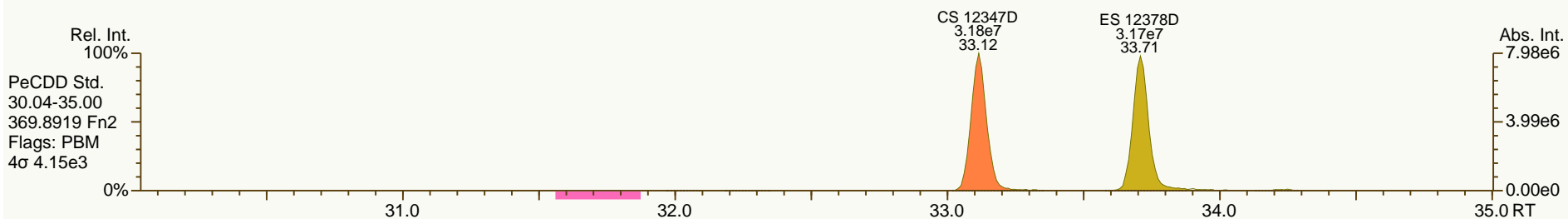
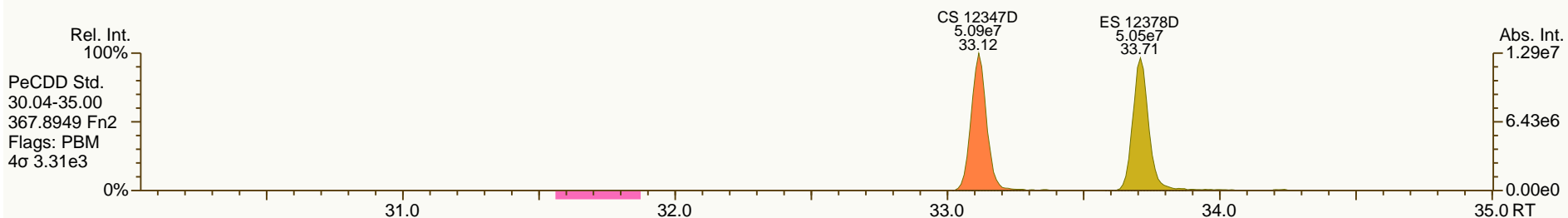
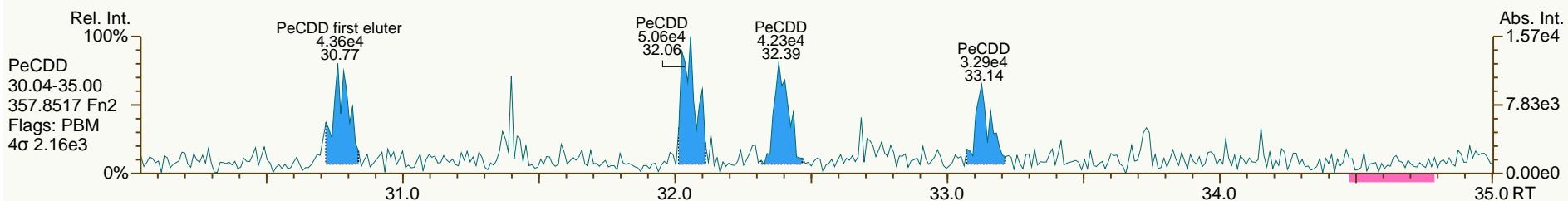
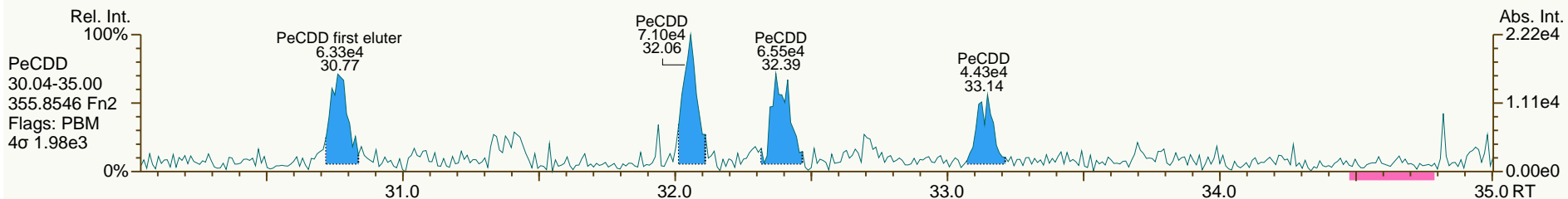
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SGS-AP ID: A5975_11402_DF_003RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-C-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

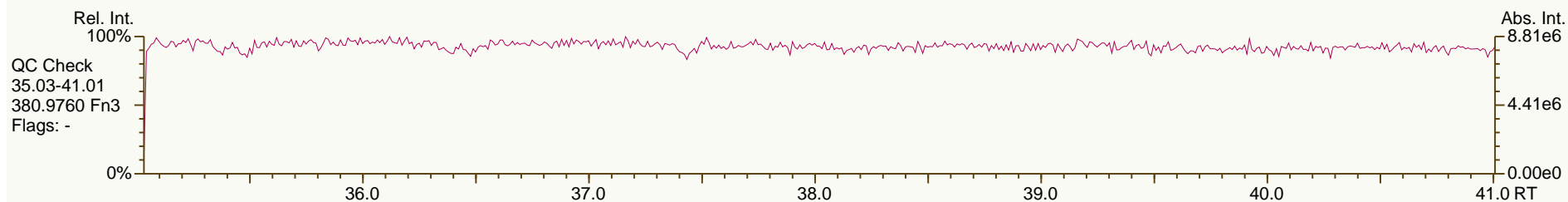
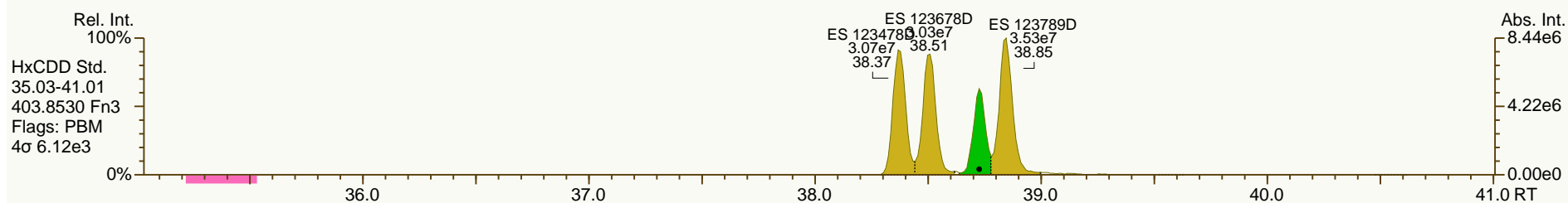
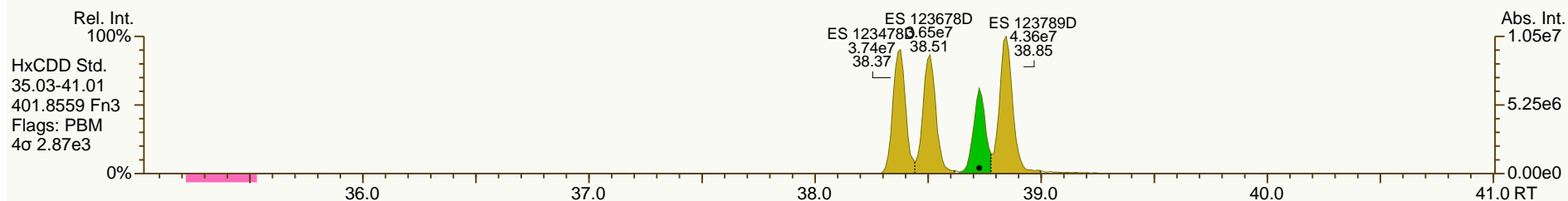
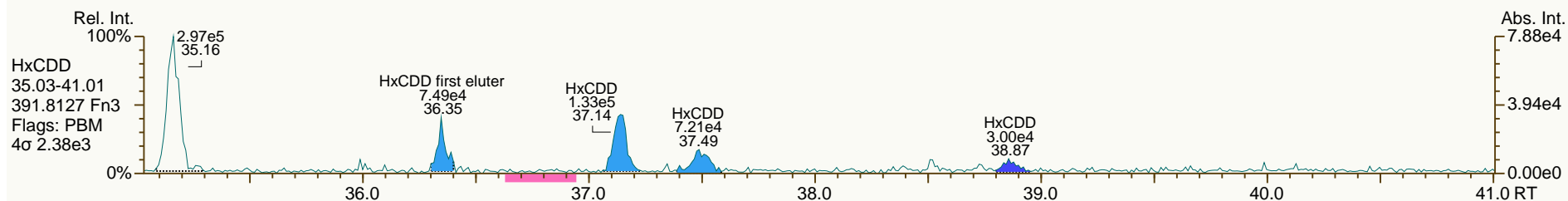
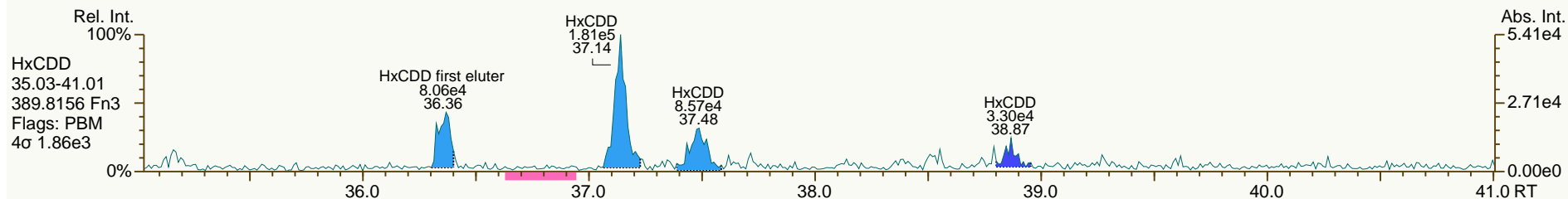
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SGS-AP ID: A5975_11402_DF_003RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-C-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

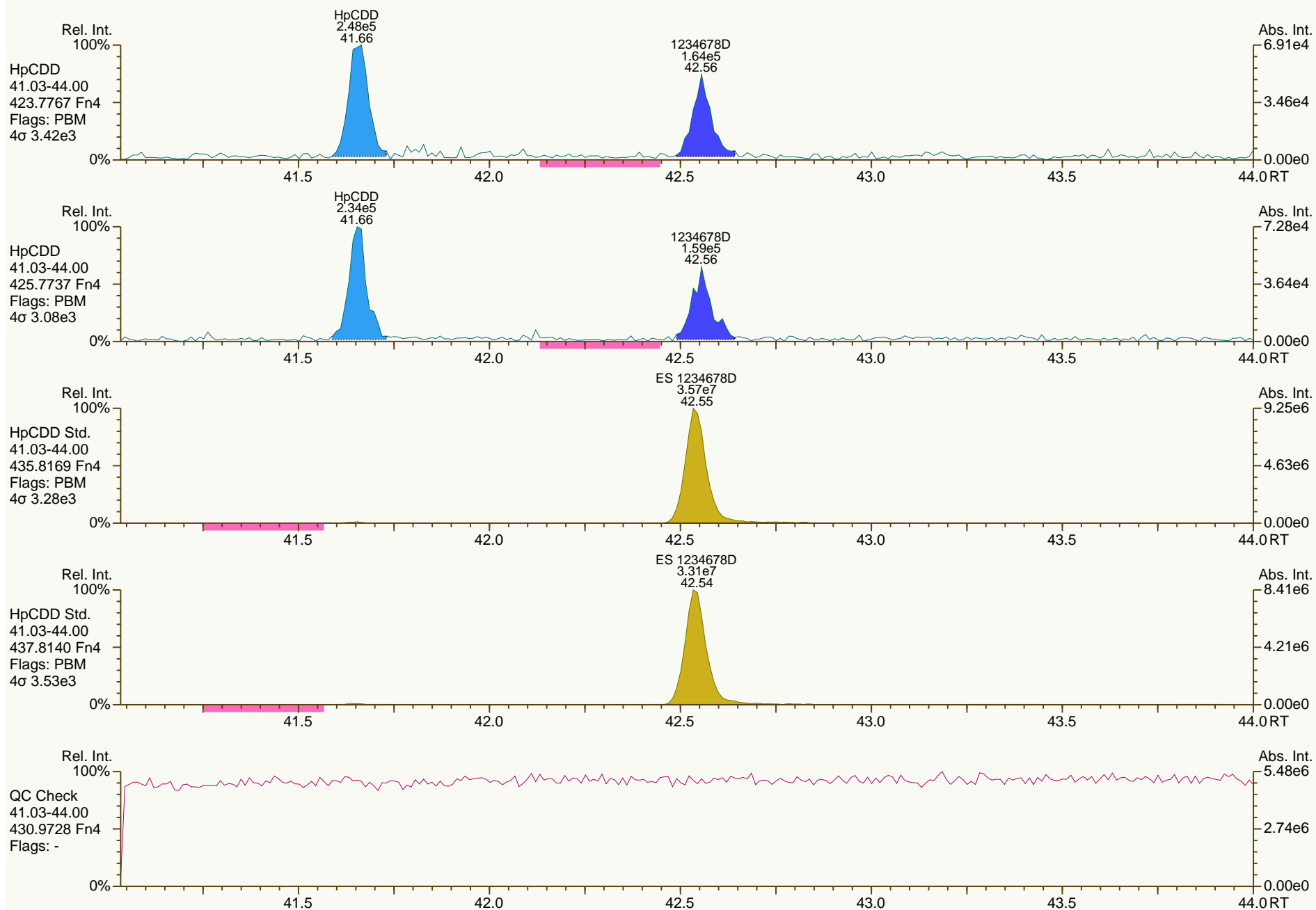
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SGS-AP ID: A5975_11402_DF_003RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-C-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

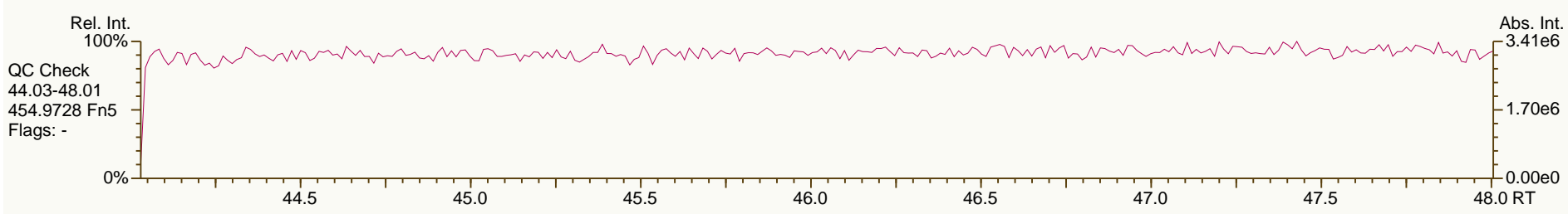
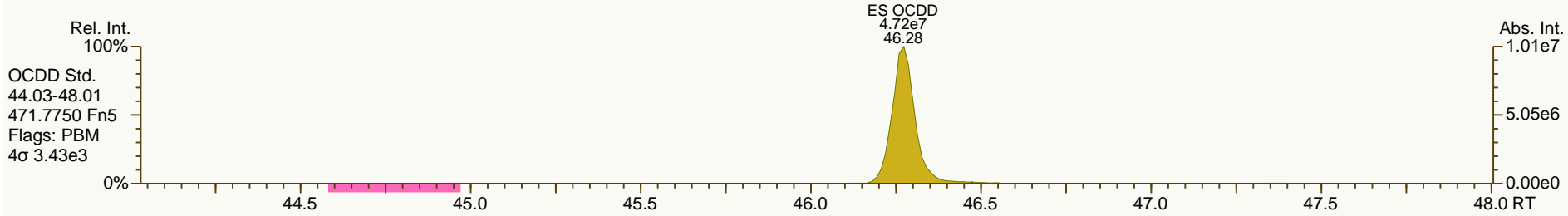
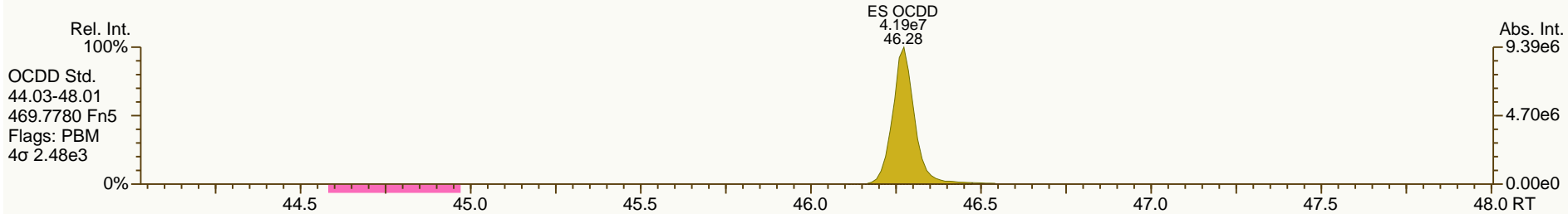
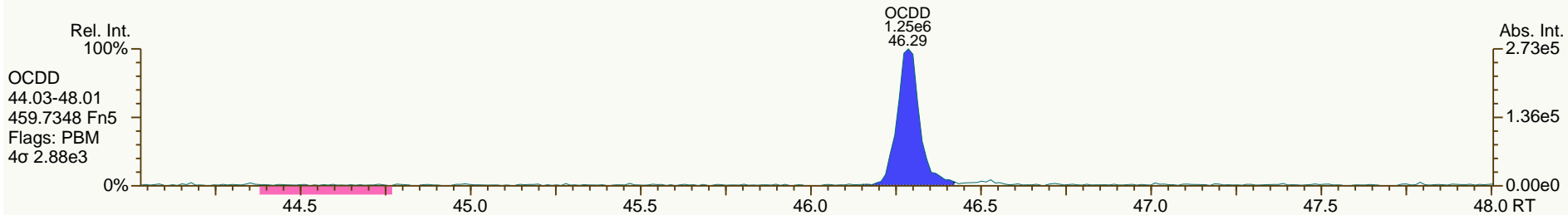
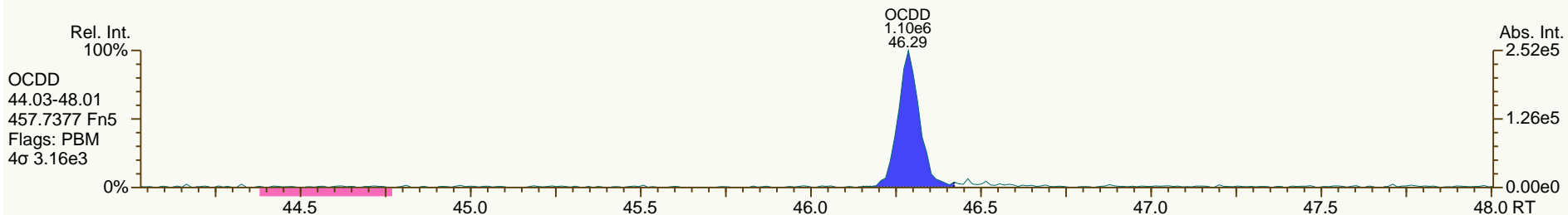
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SGS-AP ID: A5975_11402_DF_003RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-C-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

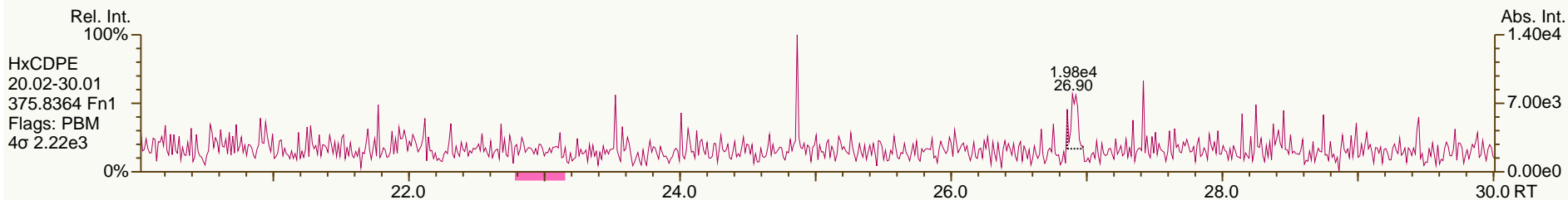
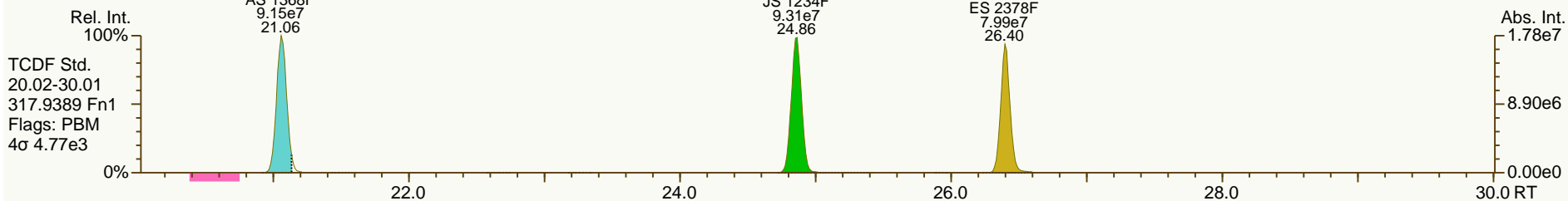
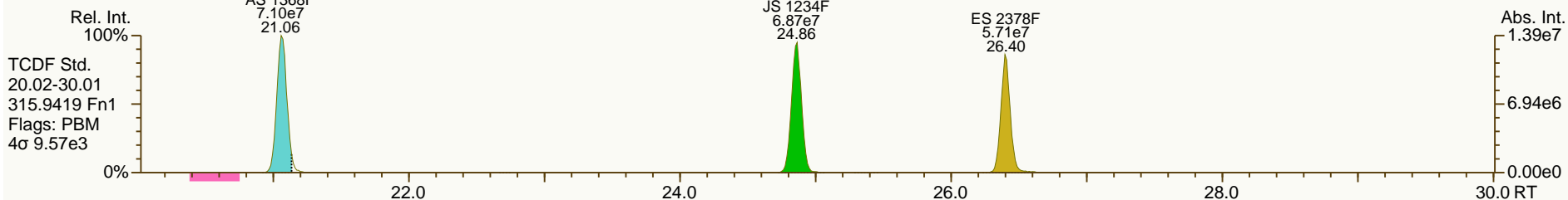
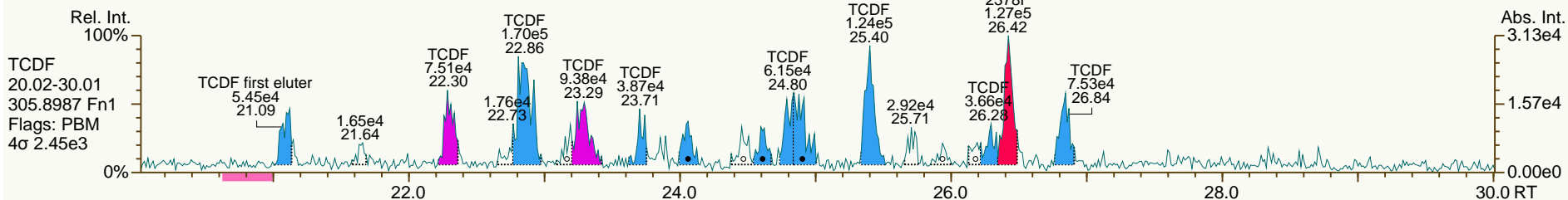
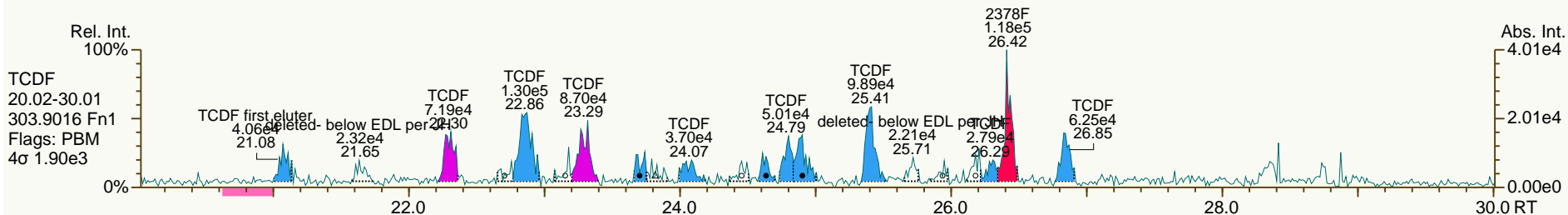
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SGS-AP ID: A5975_11402_DF_003RJ
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Sample ID: JW-SC401-C-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

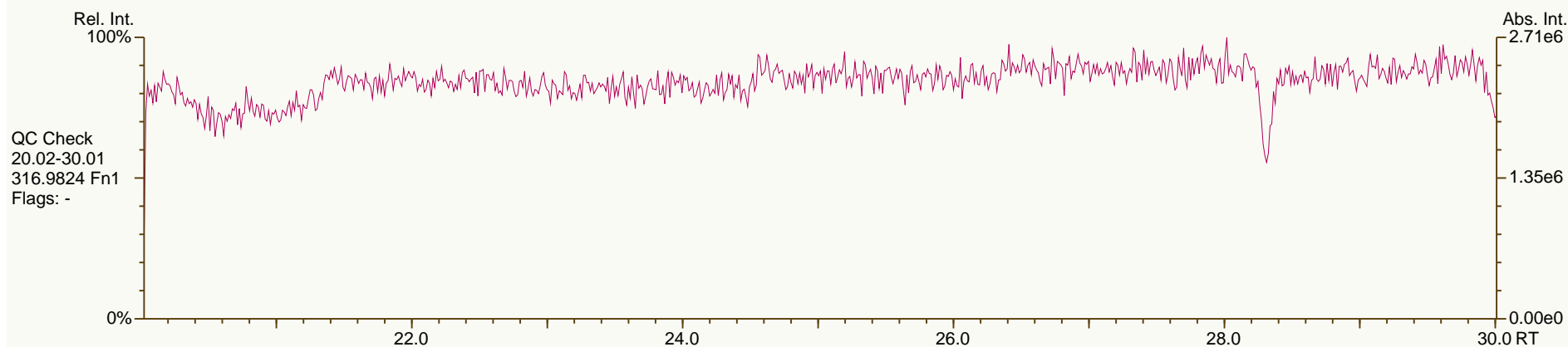
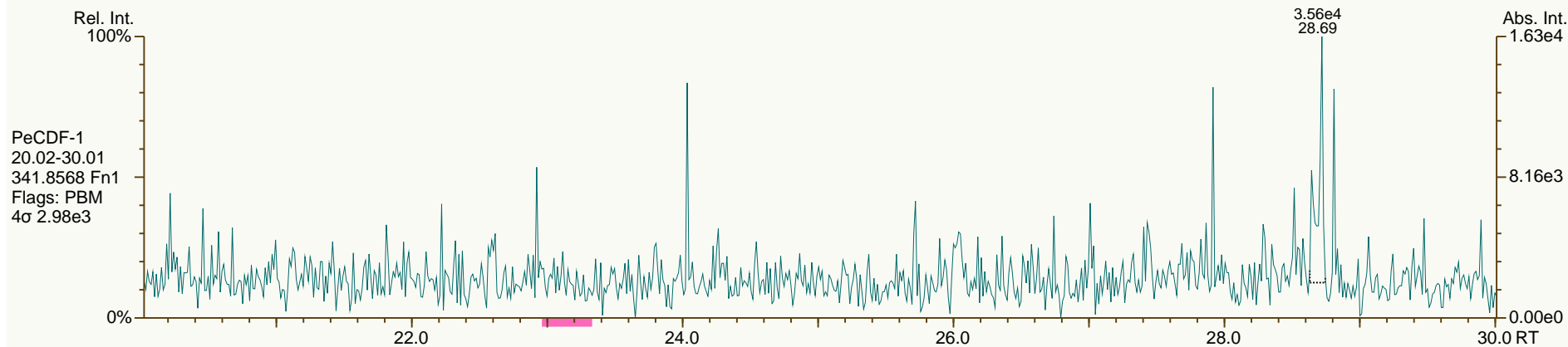
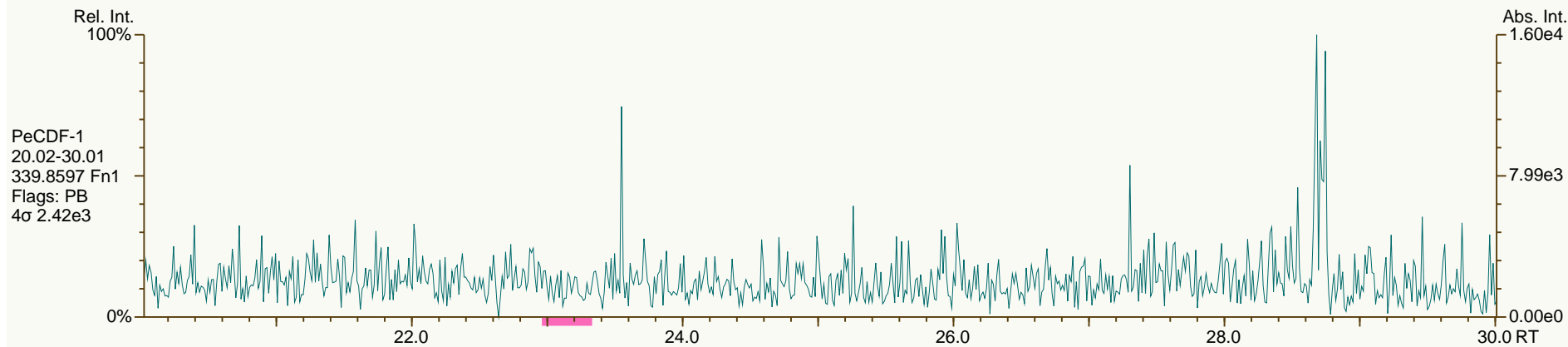
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SGS-AP ID: A5975_11402_DF_003RJ
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Sample ID: JW-SC401-C-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

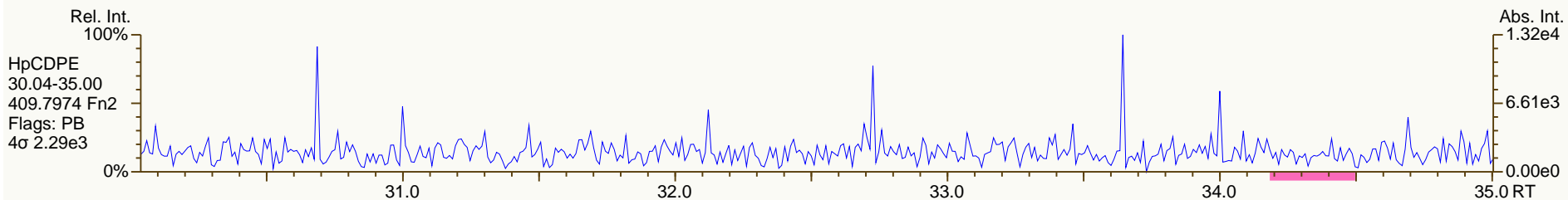
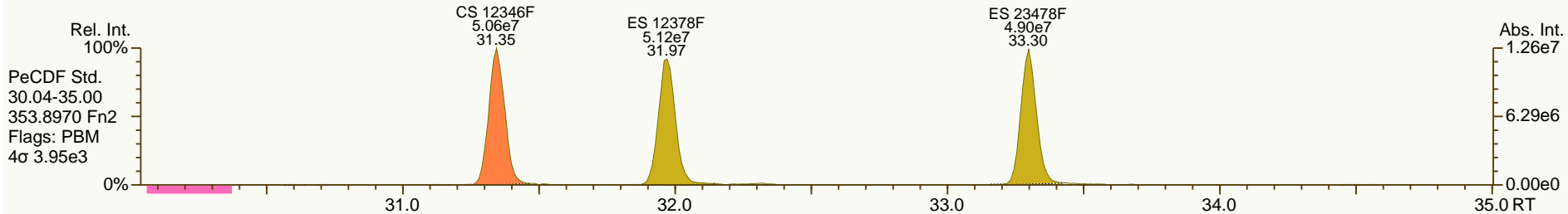
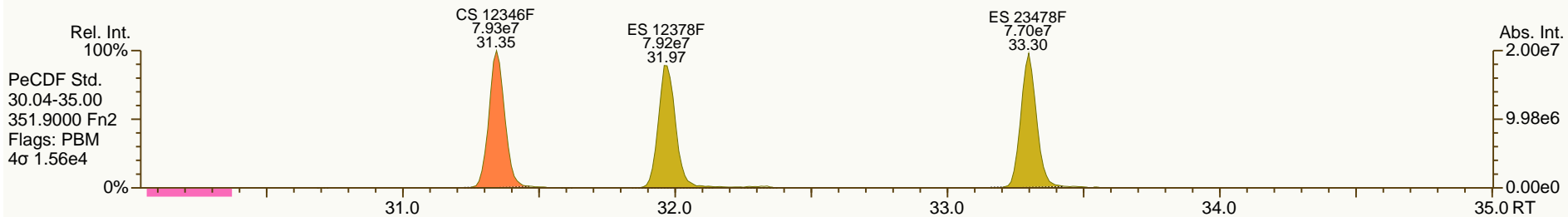
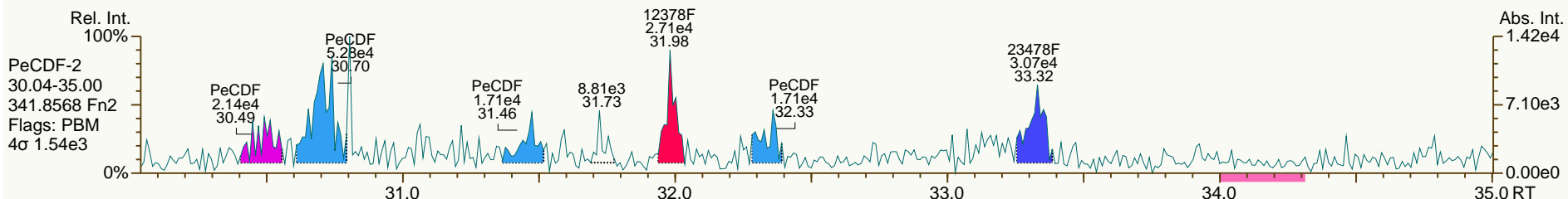
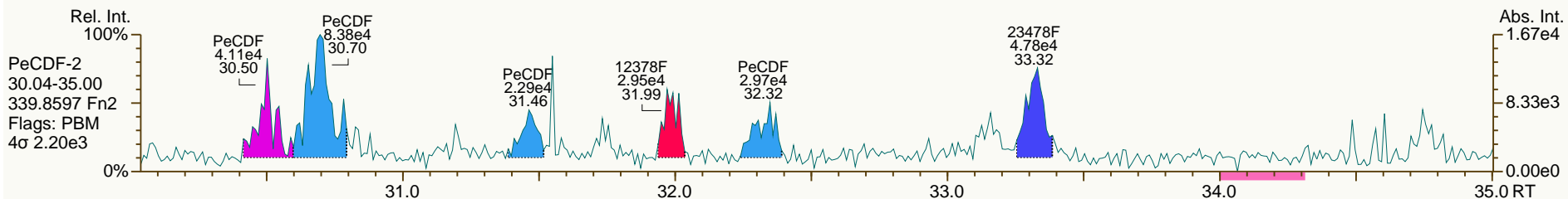
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SGS-AP ID: A5975_11402_DF_003RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-C-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

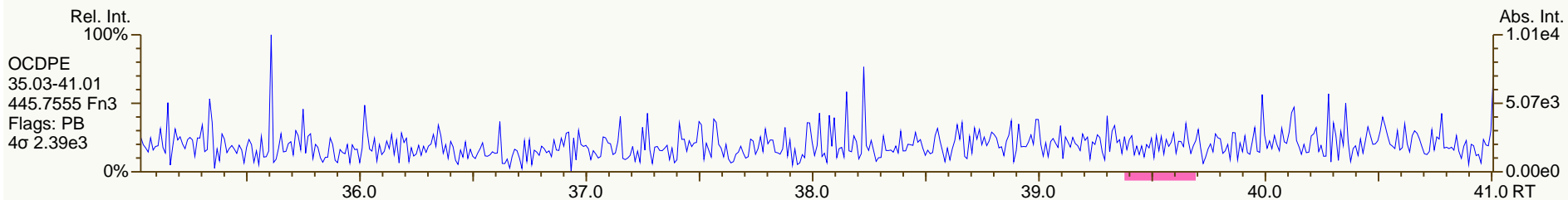
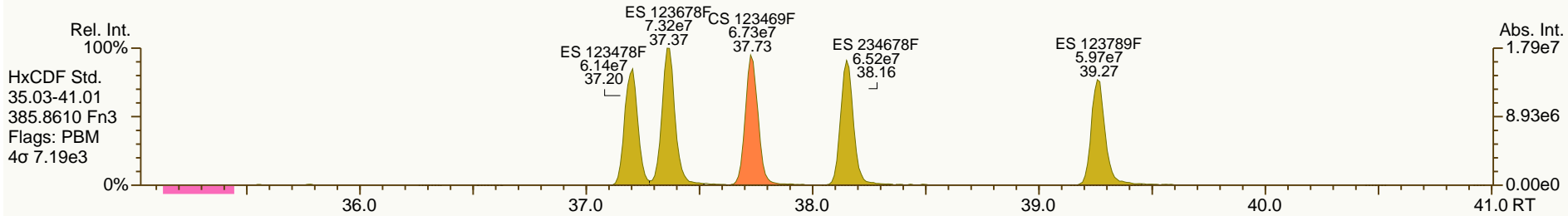
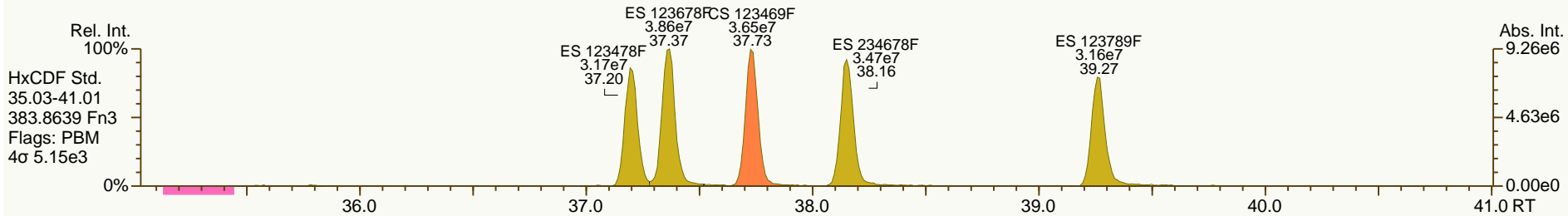
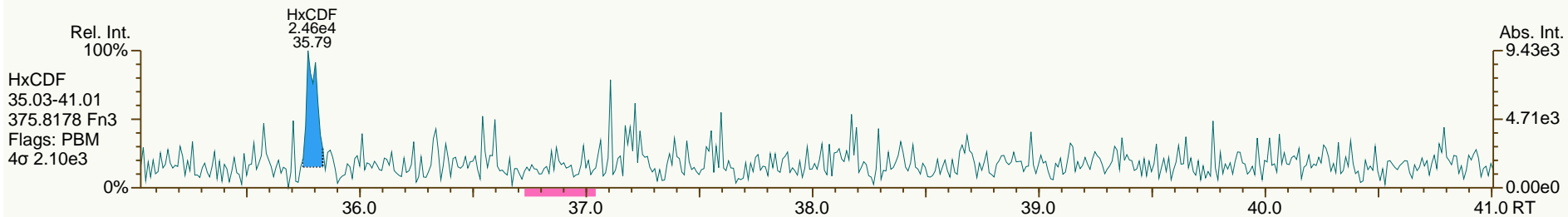
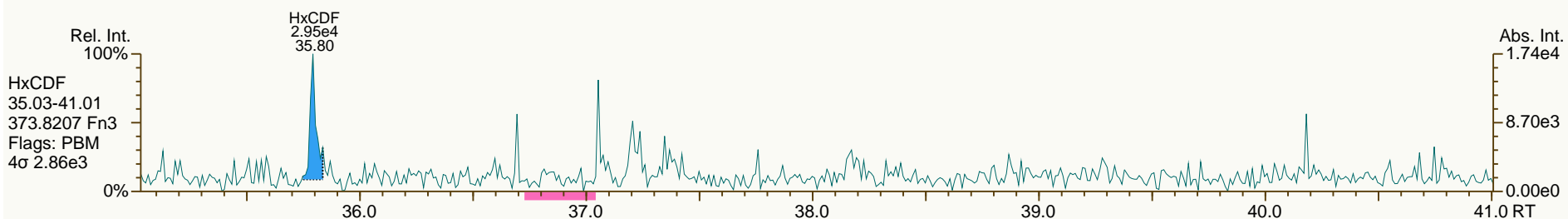
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SGS-AP ID: A5975_11402_DF_003RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-C-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

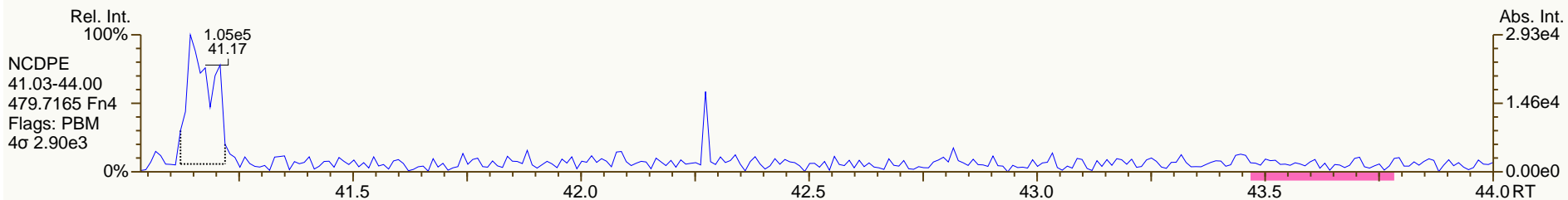
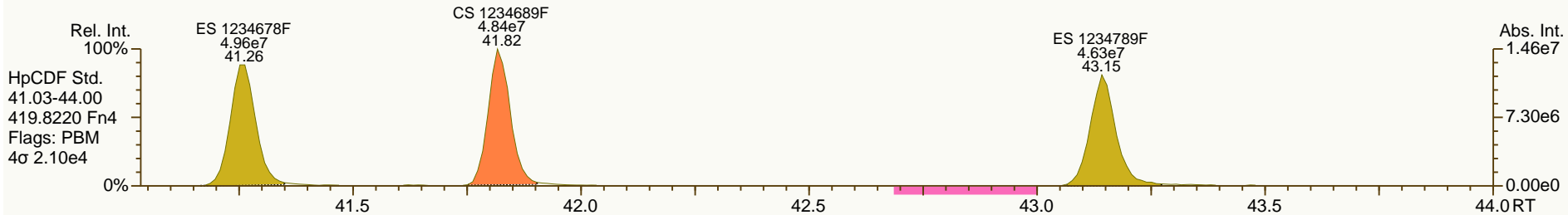
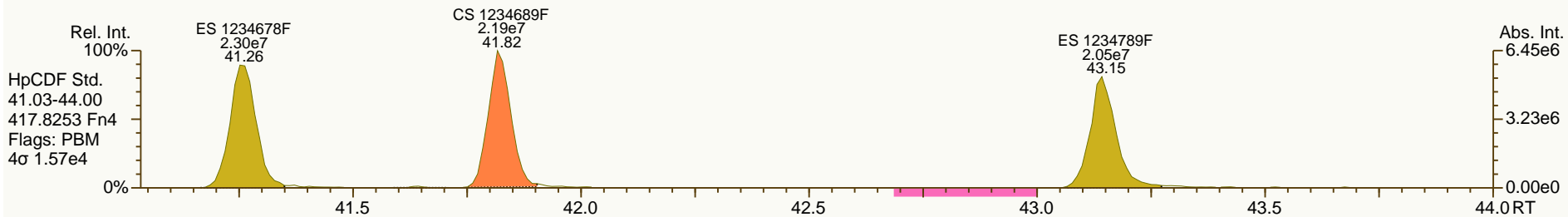
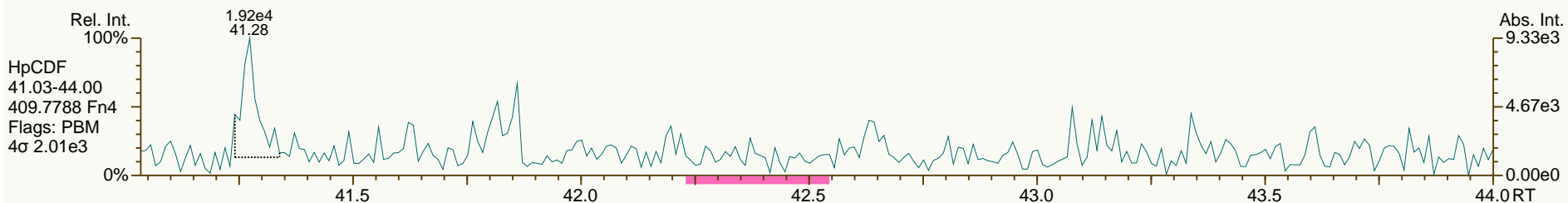
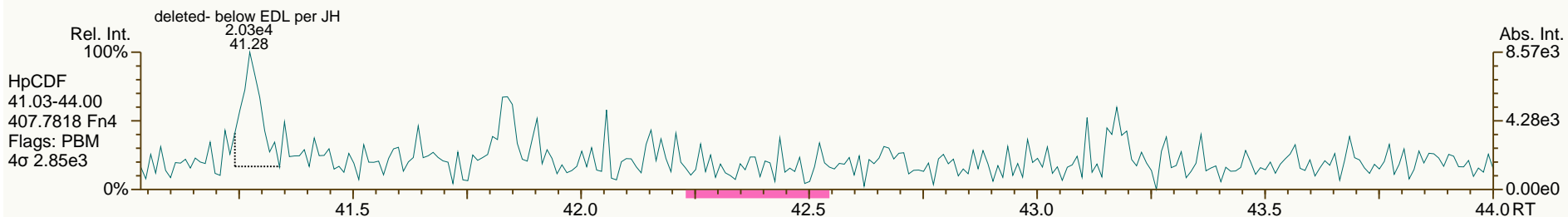
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SGS-AP ID: A5975_11402_DF_003RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-C-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

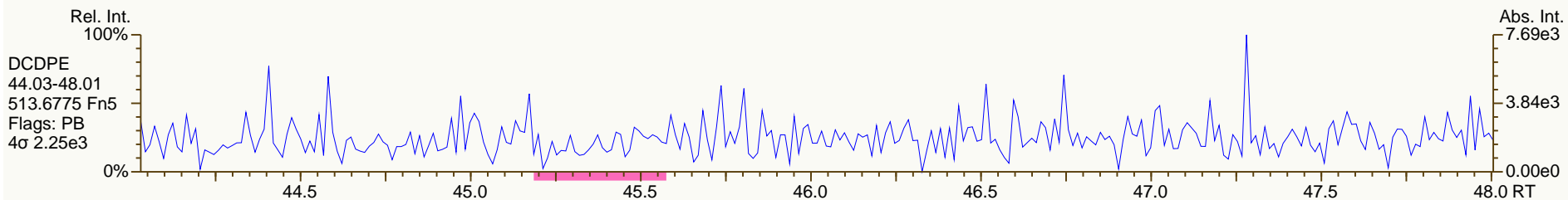
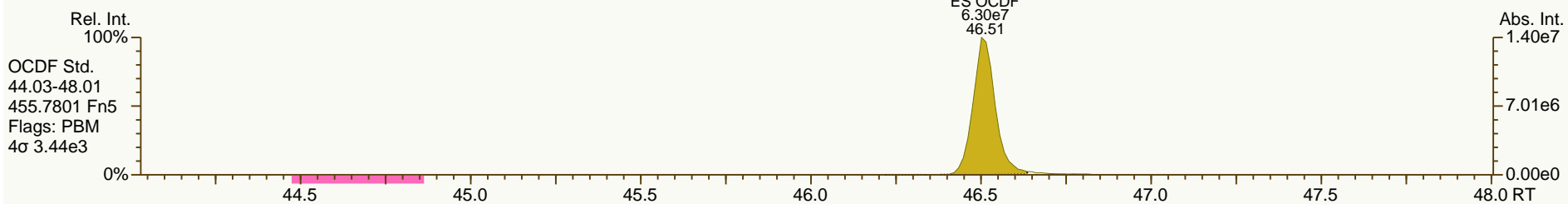
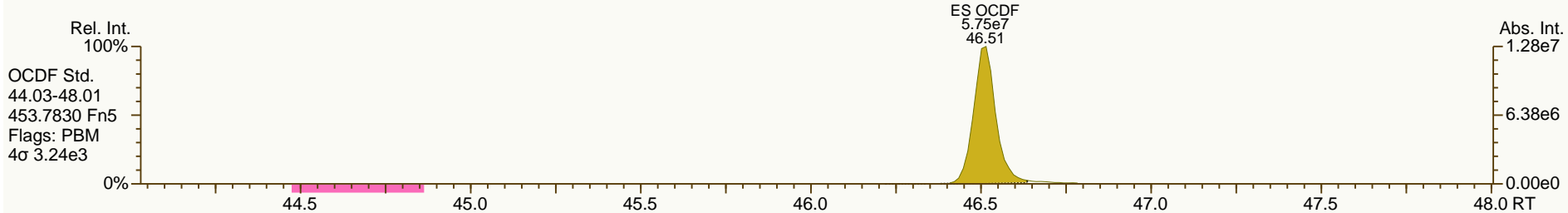
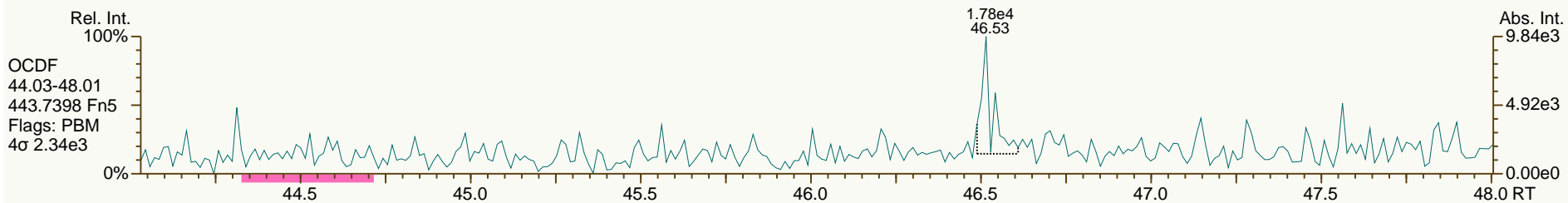
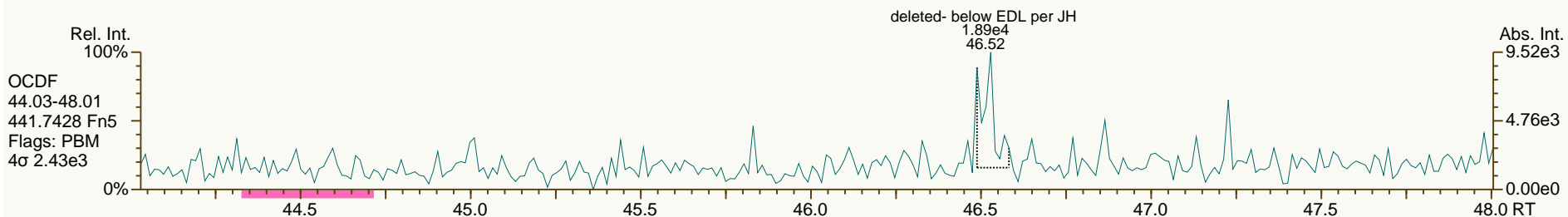
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SGS-AP ID: A5975_11402_DF_003RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC401-C-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

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Lab ID: A5975_11402_DF_008RJ

Acq'd: 14 Oct 2013 04:27 MDC

Wt/Vol: 10.05 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: JW-SC402-A-130928

UTP: 15-Oct-2013 09:45 MDC

J-level: 0.497 pg/g

Split: 1

Checkcode: 123-973-ZGB

Datafile: 131013P2-08

Report: 15 Oct 2013 09:46 MC

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37CI)

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12378-PeCDD	33.73		1.0007	1.0006	-0.2	3.89E+05	1.55	Y	1.07	0.709	7047	0.13
123478-HxCDD	38.39		1.0004	1.0005	+0.2	6.94E+05	1.24	Y	1.19	1.38	9807	0.177
123678-HxCDD	38.52		1.0039	1.0039	0	2.53E+06	1.25	Y	1.19	5.18	9807	0.195
123789-HxCDD	38.86		1.0127	1.0127	0	1.43E+06	1.29	Y	1.12	2.68	9807	0.18
1234678-HpCDD	42.56		1.0004	1.0004	0	4.04E+07	1.04	Y	1.08	85.3	11464	0.229
OCDD	46.29		1.0003	1.0003	0	1.91E+08	0.90	Y	1.14	602	6807	0.252
2378-TCDF	26.43		1.0009	1.0008	-0.2	1.97E+06	0.83	Y	1.10	1.98	5192	0.063
12378-PeCDF	31.99		1.0006	1.0006	0	4.12E+05	1.48	Y	1.17	0.438	6352	0.073
23478-PeCDF	33.33		1.0005	1.0010	+1.0	9.14E+05	1.38	Y	1.14	0.991	6352	0.0686
123478-HxCDF	37.21		1.0005	1.0005	0	7.69E+05	1.26	Y	1.34	0.975	6069	0.074
123678-HxCDF	37.38		1.0005	1.0006	+0.2	6.56E+05	1.23	Y	1.23	0.775	6069	0.0692
234678-HxCDF	38.16		1.0005	1.0003	-0.5	9.98E+05	1.24	Y	1.26	1.25	6069	0.0731
123789-HxCDF	NotFnd		1.0005	-	-	-	-	-	1.23	-	6069	0.085
1234678-HpCDF	41.27		1.0004	1.0004	0	1.20E+07	1.01	Y	1.42	17.7	11970	0.172
1234789-HpCDF	43.16		1.0003	1.0003	0	6.19E+05	1.16	Y	1.39	1.02	11970	0.194
OCDF	46.53		1.0004	1.0004	0	1.90E+07	0.88	Y	1.11	44.3	6435	0.165

Name	Act RT	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Rec. %
ES 2378-TCDD	27.39	1.0280	1.0281	+0.2	1.18E+08	0.79	Y	1.02	99.7
ES 12378-PeCDD	33.71	1.2640	1.2652	+1.9	1.02E+08	1.60	Y	0.92	95.6
ES 123478-HxCDD	38.37	0.9909	0.9909	0	8.43E+07	1.22	Y	1.02	81.6
ES 123678-HxCDD	38.50	0.9943	0.9944	+0.2	8.15E+07	1.19	Y	1.01	80.2
ES 123789-HxCDD	38.84	1.0030	1.0031	+0.2	9.50E+07	1.19	Y	1.14	82.6
ES 1234678-HpCDD	42.54	1.0984	1.0986	+0.5	8.69E+07	1.07	Y	1.02	84.3
ES OCDD	46.27	1.1947	1.1950	+0.7	1.10E+08	0.90	Y	0.72	76
ES 2378-TCDF	26.40	1.0617	1.0622	+0.7	1.80E+08	0.74	Y	1.01	91.7
ES 12378-PeCDF	31.97	1.2848	1.2861	+1.9	1.60E+08	1.55	Y	0.89	93
ES 23478-PeCDF	33.30	1.3381	1.3396	+2.2	1.60E+08	1.58	Y	0.91	90.9
ES 123478-HxCDF	37.20	0.9606	0.9606	0	1.17E+08	0.53	Y	1.53	75.9
ES 123678-HxCDF	37.36	0.9649	0.9649	0	1.37E+08	0.54	Y	1.73	78.5
ES 234678-HxCDF	38.15	0.9851	0.9852	+0.2	1.26E+08	0.53	Y	1.61	77.5
ES 123789-HxCDF	39.26	1.0139	1.0140	+0.2	1.16E+08	0.53	Y	1.39	82.3
ES 1234678-HpCDF	41.26	1.0654	1.0655	+0.2	9.52E+07	0.45	Y	1.20	78.6
ES 1234789-HpCDF	43.14	1.1140	1.1141	+0.2	8.69E+07	0.45	Y	1.07	80.5
ES OCDF	46.51	1.2010	1.2011	+0.2	1.54E+08	0.91	Y	1.04	73.2

Lab ID: A5975_11402_DF_008RJ

Acq'd: 14 Oct 2013 04:27 MDC

Wt/Vol: 10.05 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: JW-SC402-A-130928

UTP: 15-Oct-2013 09:45 MDC

J-level: 0.497 pg/g

Split: 1

Checkcode: 123-973-ZGB

Datafile: 131013P2-08

Report: 15 Oct 2013 09:46 MC

StdS (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37Cl)

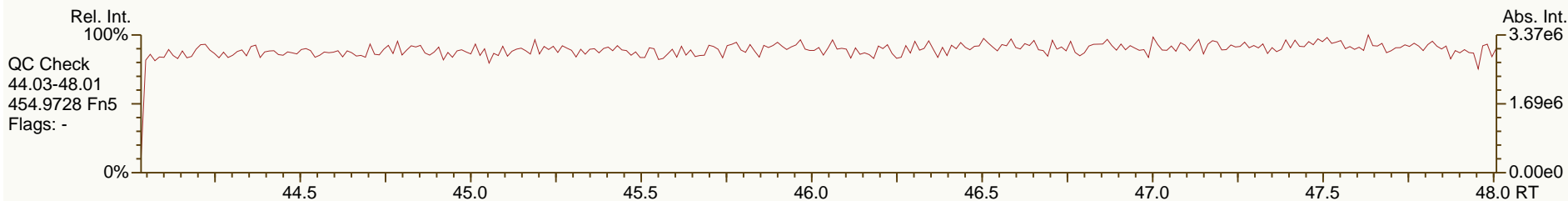
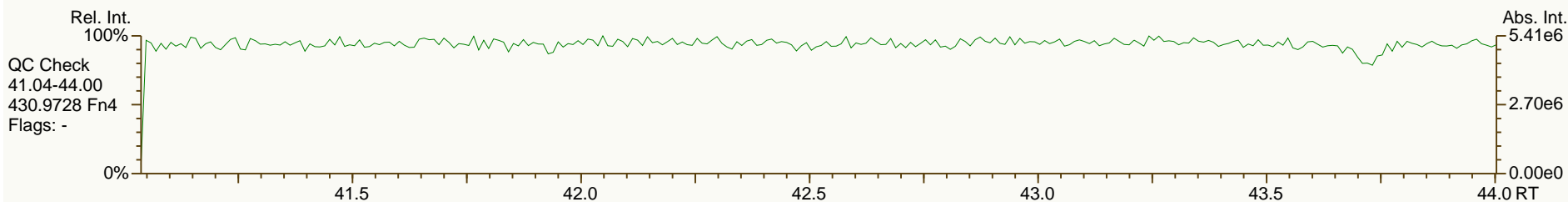
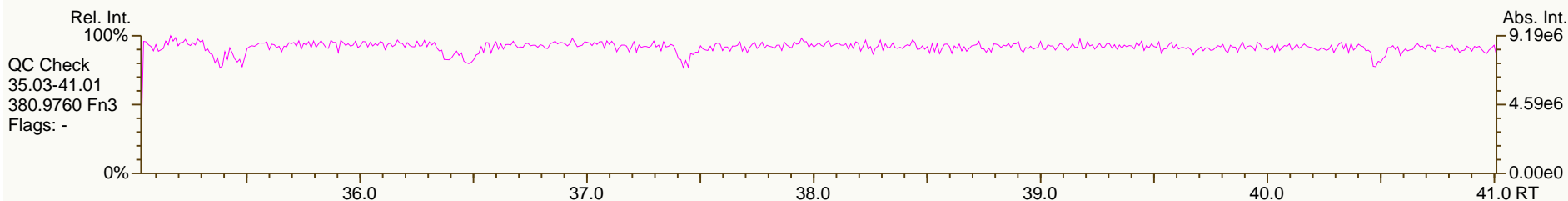
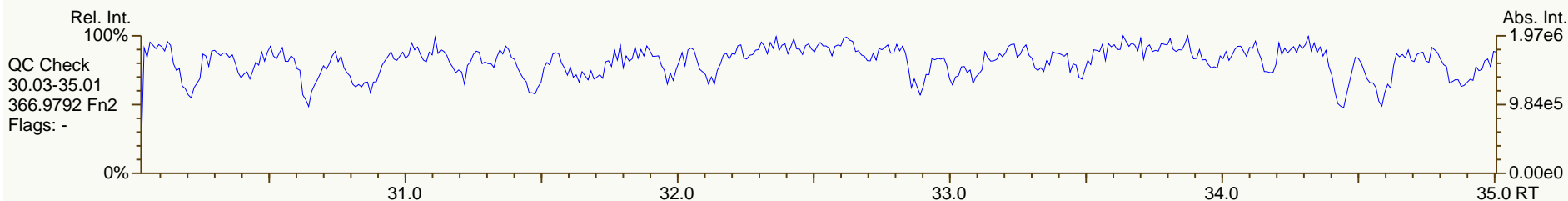
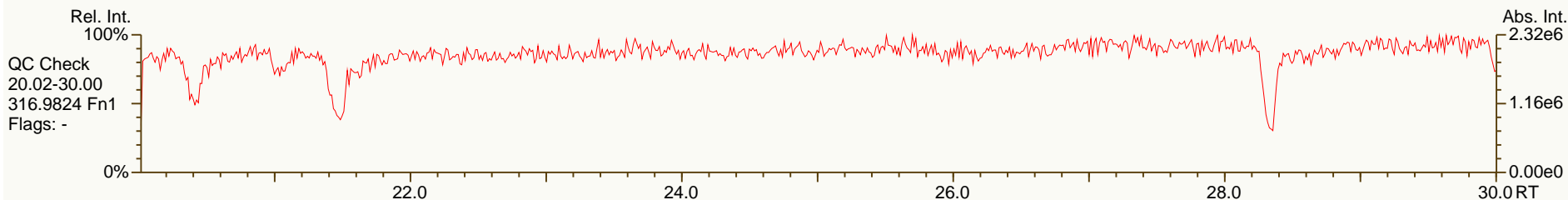
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JS 1234-TCDF	24.86		-	-	-	1.95E+08	0.76	Y	-	-
JS 123467-HxCDD	38.72		-	-	-	5.04E+07	1.23	Y	-	-
CS 37Cl-2378-TCDD	27.42		1.0289	1.0291	+0.3	5.49E+07	n/a	-	1.13	105
CS 12347-PeCDD	33.12		1.2418	1.2428	+1.6	9.90E+07	1.58	Y	0.88	97.8
CS 12346-PeCDF	31.35		1.2599	1.2610	+1.6	1.69E+08	1.57	Y	0.90	96.5
CS 123469-HxCDF	37.73		0.9743	0.9744	+0.2	1.30E+08	0.53	Y	1.40	92
CS 1234689-HpCDF	41.82		1.0798	1.0800	+0.5	9.34E+07	0.44	Y	1.09	84.8
SS 37Cl-2378-TCDD	27.42		1.0289	1.0291	+0.3	5.49E+07	n/a	-	1.11	104
SS 12347-PeCDD	33.12		1.2418	1.2428	+1.6	9.90E+07	1.58	Y	0.96	102
SS 12346-PeCDF	31.35		1.2599	1.2610	+1.6	1.69E+08	1.57	Y	1.02	103
SS 123469-HxCDF	37.73		0.9743	0.9744	+0.2	1.30E+08	0.53	Y	0.81	117
SS 1234689-HpCDF	41.82		1.0798	1.0800	+0.5	9.34E+07	0.44	Y	0.91	107
AS 1368-TCDD	23.26		0.8735	0.8731	-0.6	1.33E+08	0.80	Y	1.01	114
AS 1368-TCDF	21.09		0.8478	0.8484	+0.9	2.11E+08	0.74	Y	1.22	89
FS 1278-TCDD	NotFnd		1.0139							
FS 12478-PeCDD	NotFnd		0.9570							
FS 123468-HxCDD	NotFnd		0.9674							
FS 1234679-HpCDD	NotFnd		0.9788							
TS 1378-TCDD	NotFnd		0.9313							

Totals	Conc	EMPC		
Total TCDD	17.5	18.1	* 37Cl correction has been applied to 2378-TCDD	
Total PeCDD	17.6	17.6	Original Values	Corrected Values
Total HxCDD	54.6	54.6	Ratio 0.64	0.86
Total HpCDD	199	199	Response 2.13E+05	1.80E+05
Total Tetra-Octa Dioxins	892	892		
Total TCDF	18.1	18.5		
Total PeCDF	11.6	11.9		
Total HxCDF	26.4	26.9		
Total HpCDF	58.3	58.3		
Total Tetra-Octa Furans	159	160		
Total Tetra-Octa Dioxins & Furans	1050	1050		

SGS-AP ID: A5975_11402_DF_008RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-A-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

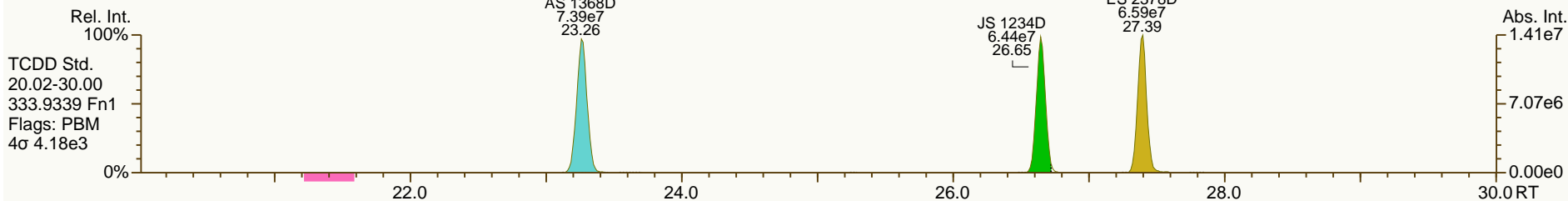
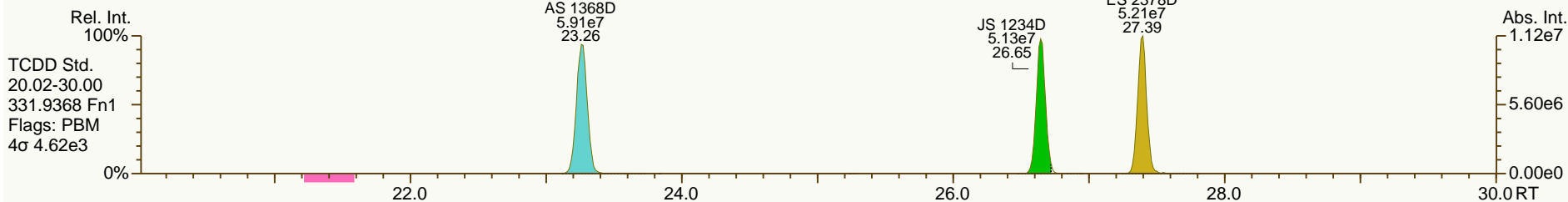
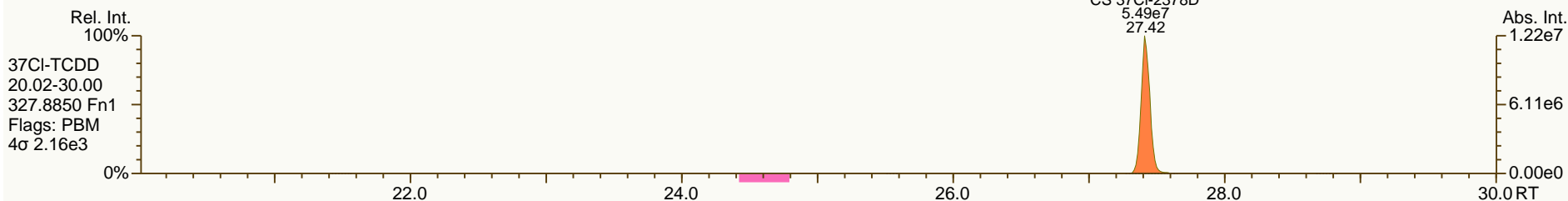
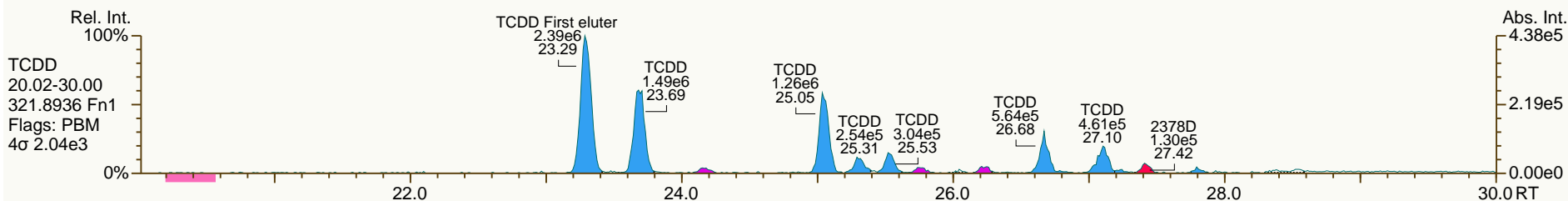
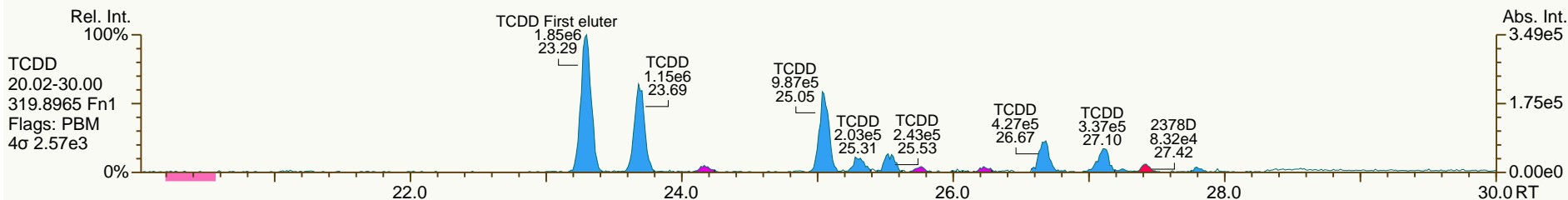
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Sample ID: JW-SC402-A-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

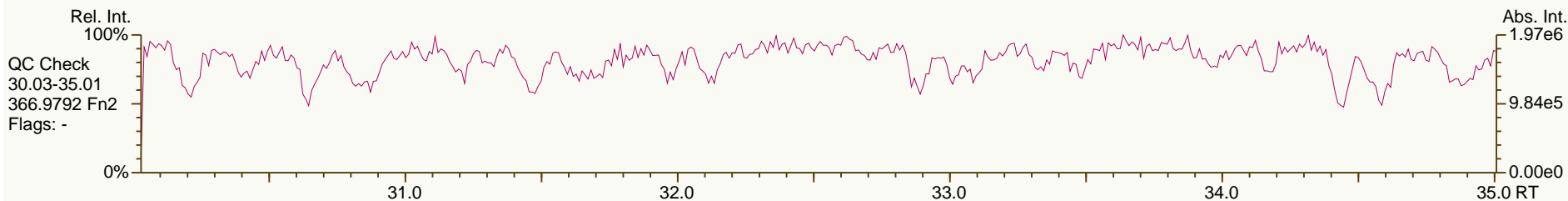
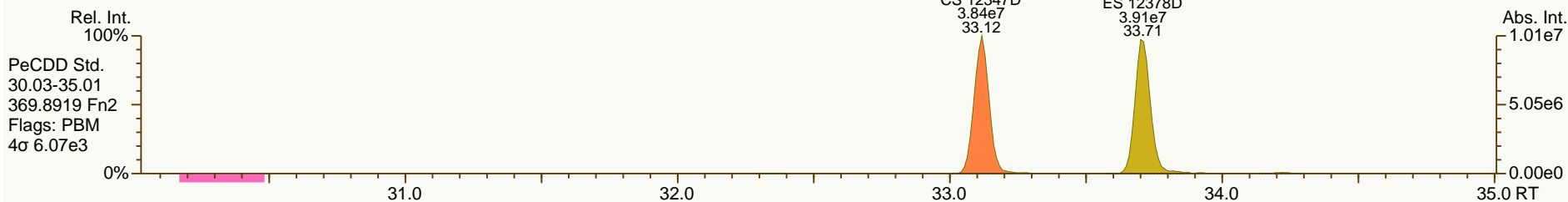
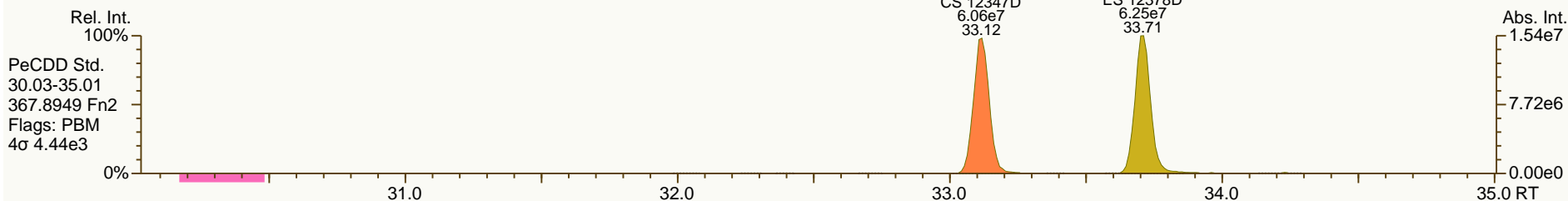
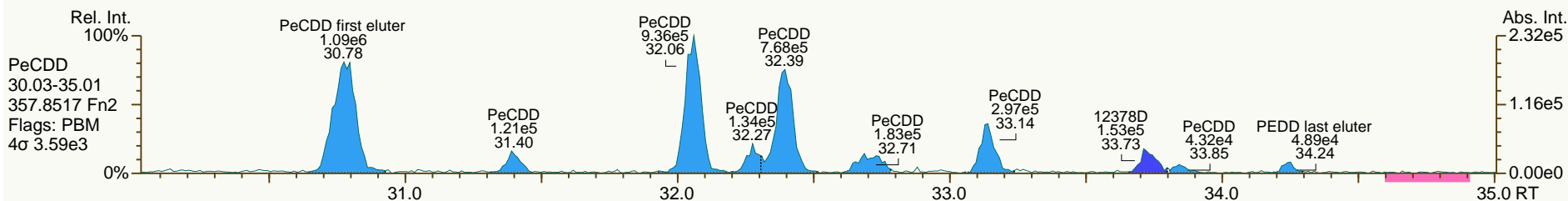
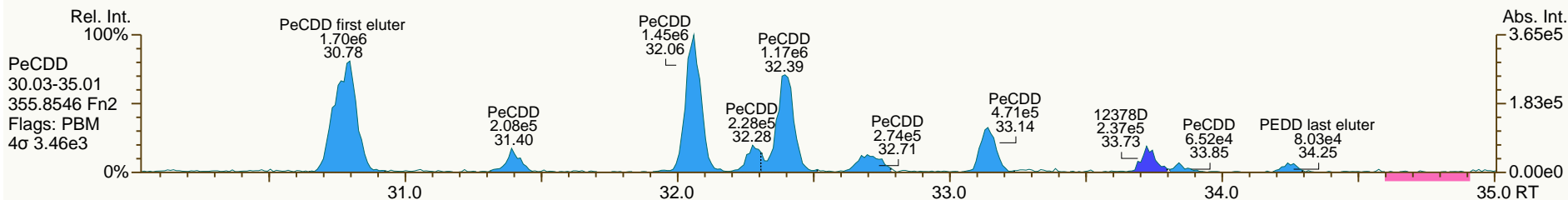
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SGS-AP ID: A5975_11402_DF_008RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-A-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

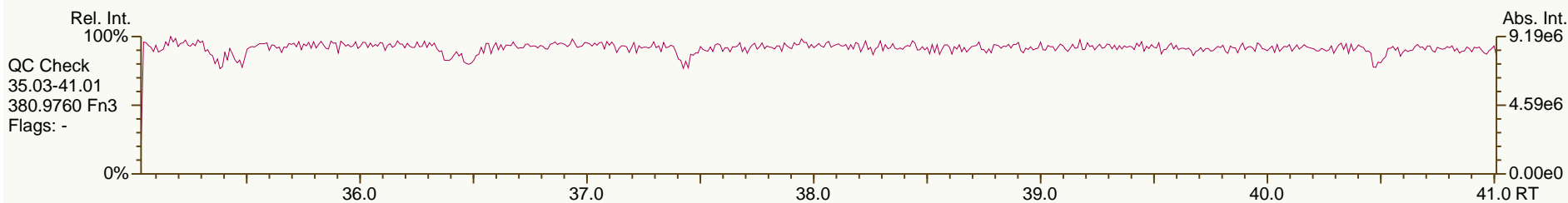
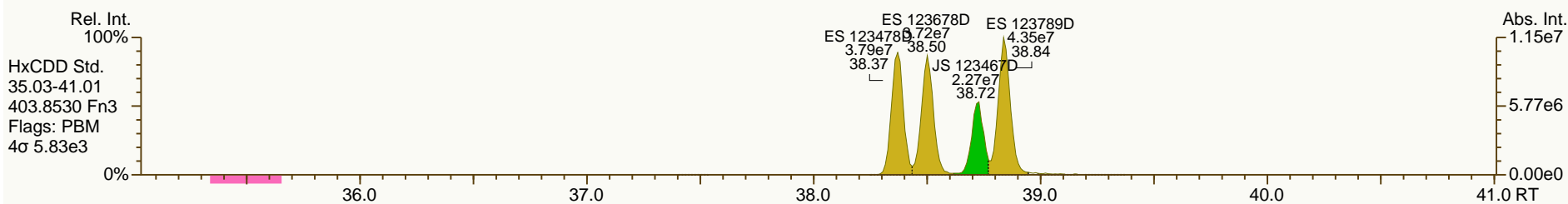
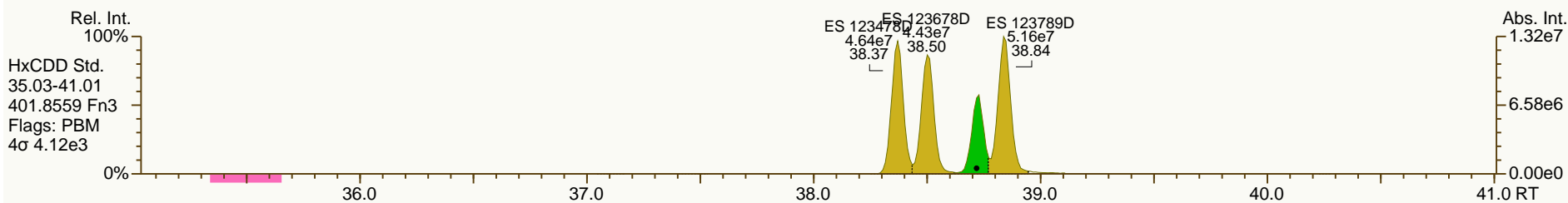
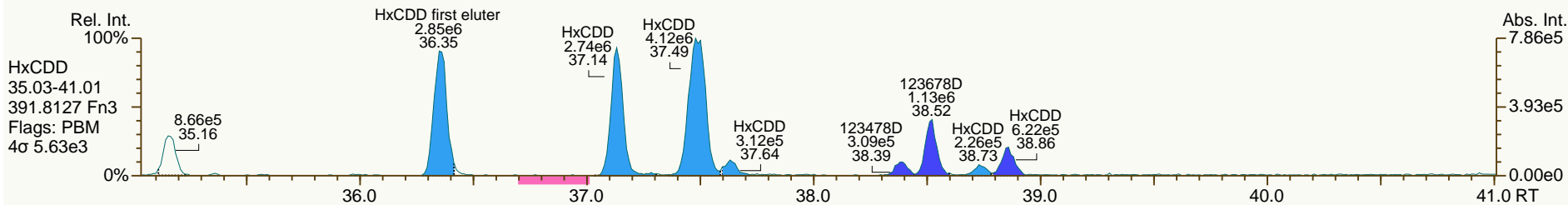
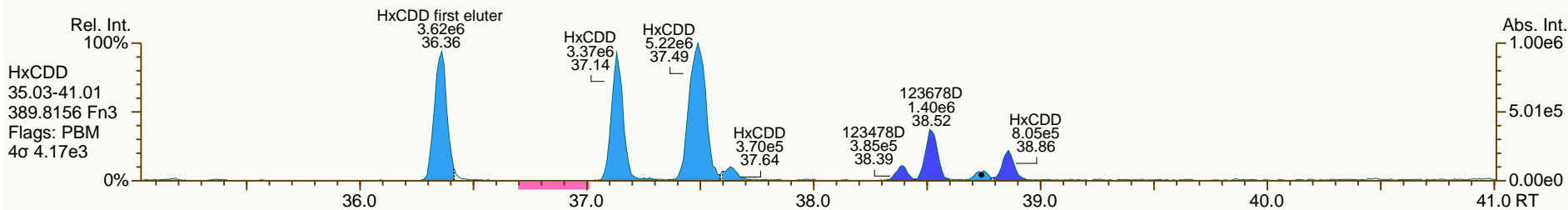
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SGS-AP ID: A5975_11402_DF_008RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-A-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

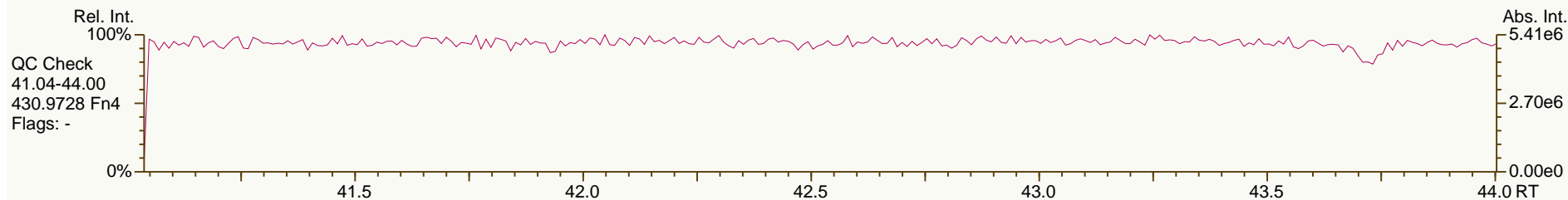
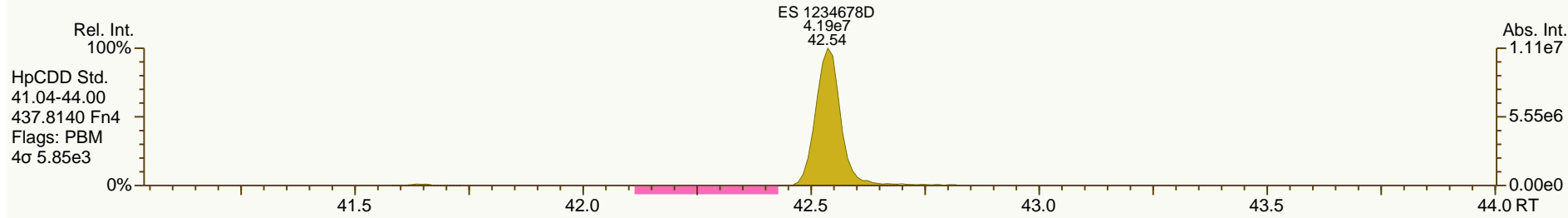
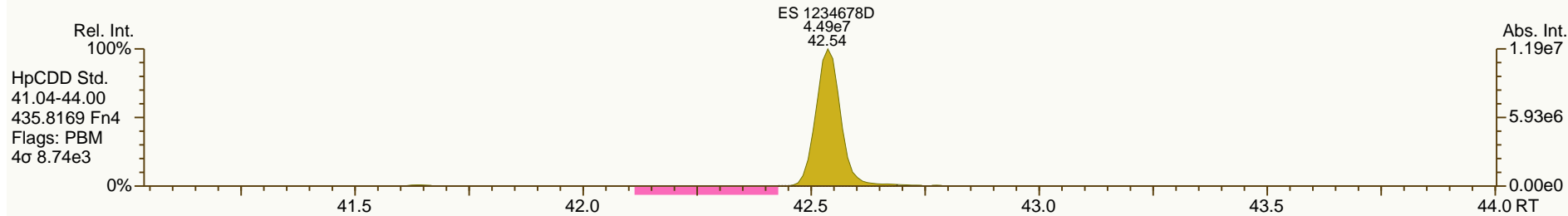
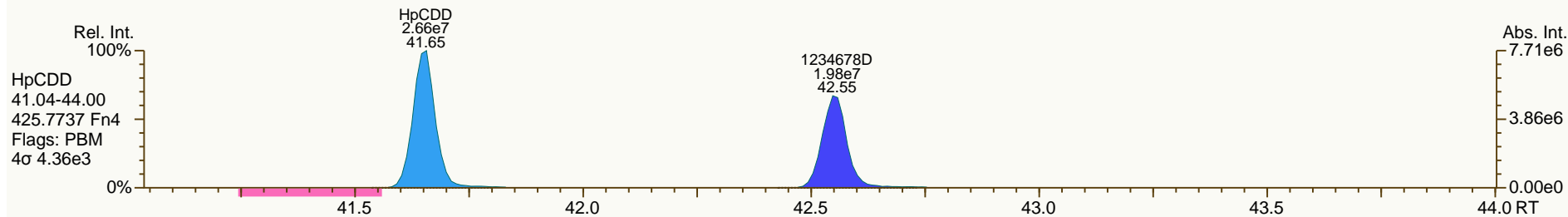
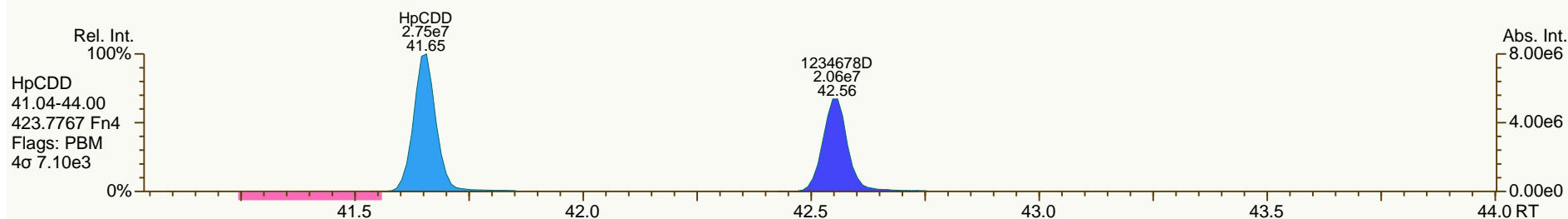
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SGS-AP ID: A5975_11402_DF_008RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-A-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

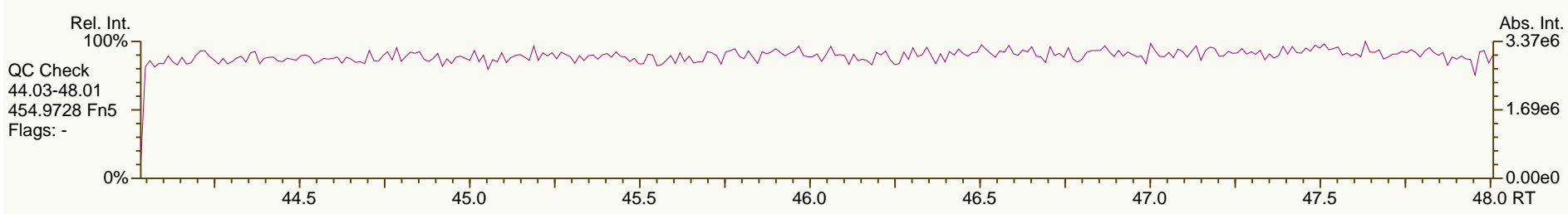
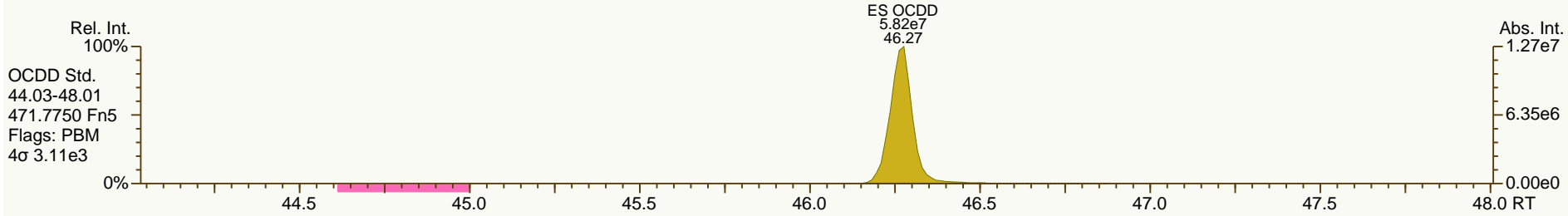
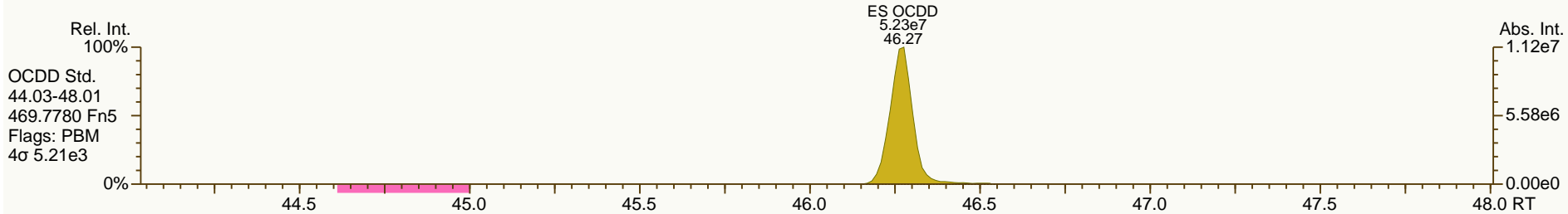
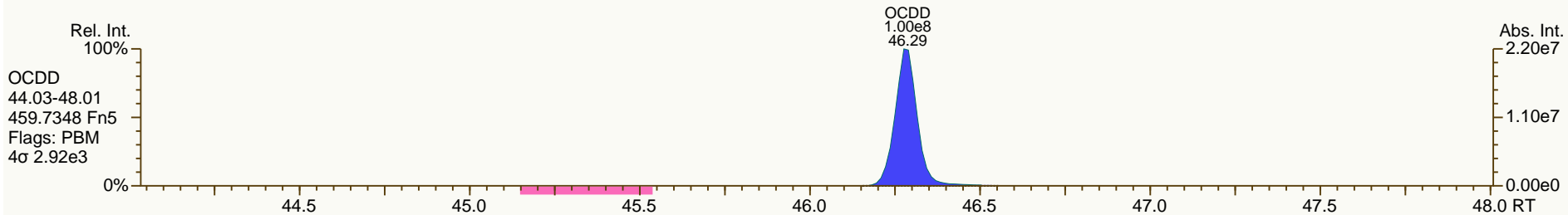
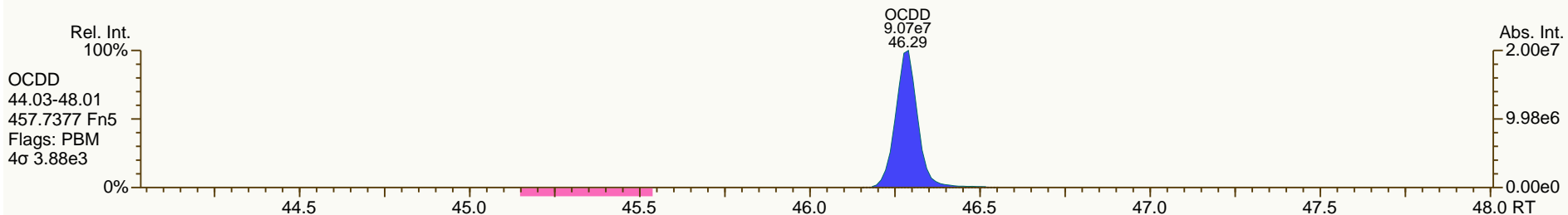
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SGS-AP ID: A5975_11402_DF_008RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-A-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

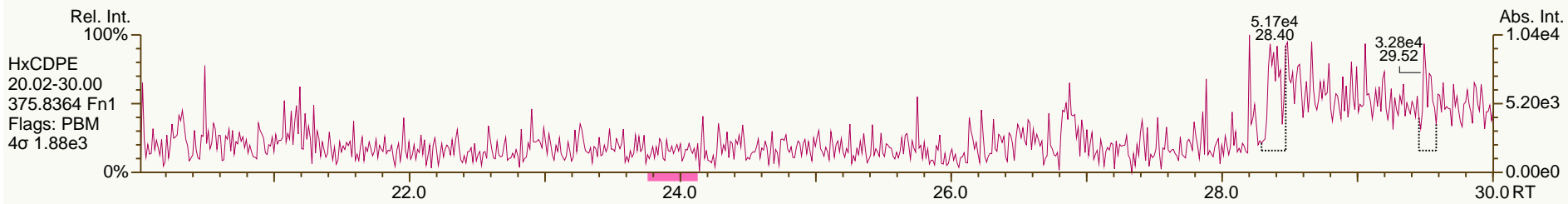
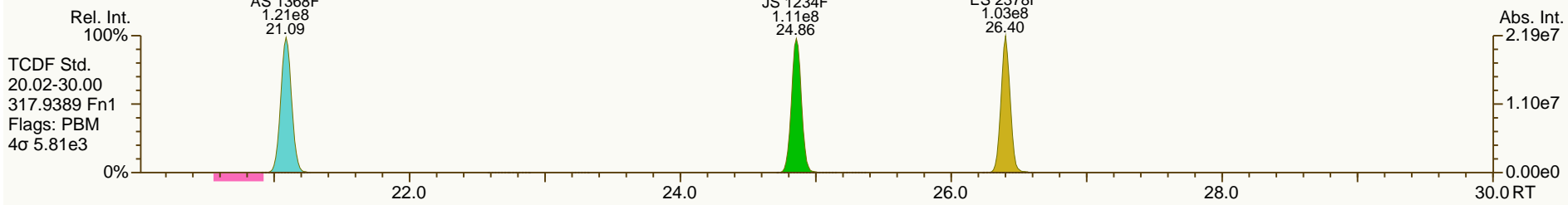
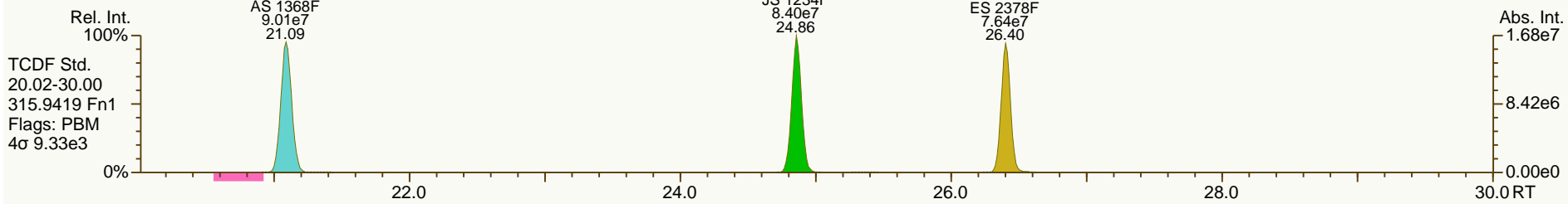
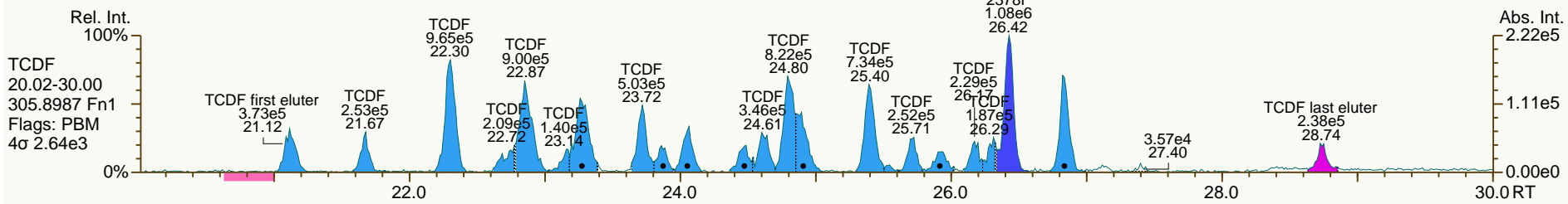
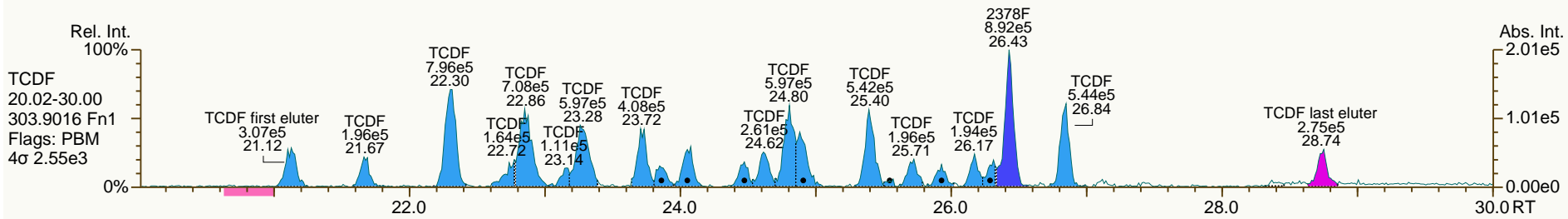
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SGS-AP ID: A5975_11402_DF_008RJ
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Sample ID: JW-SC402-A-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

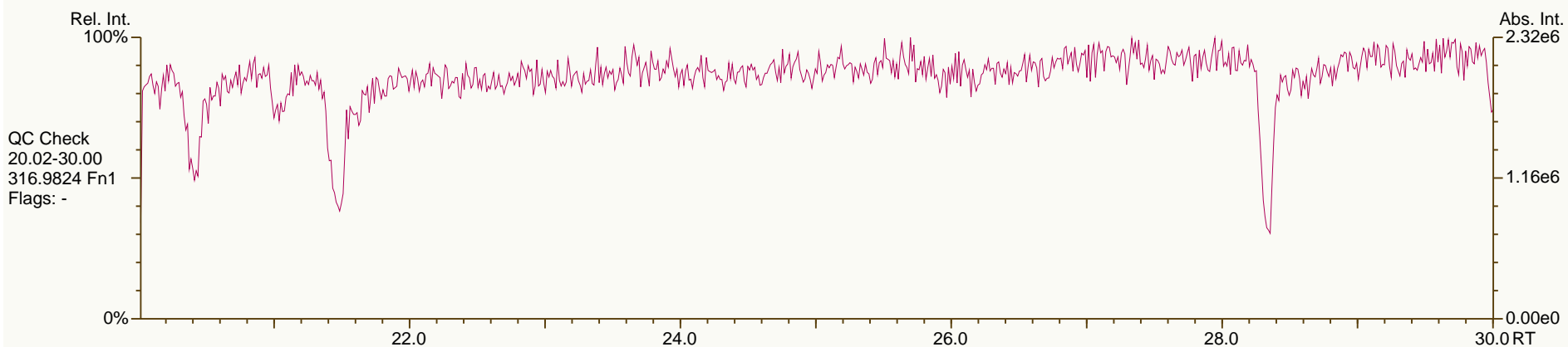
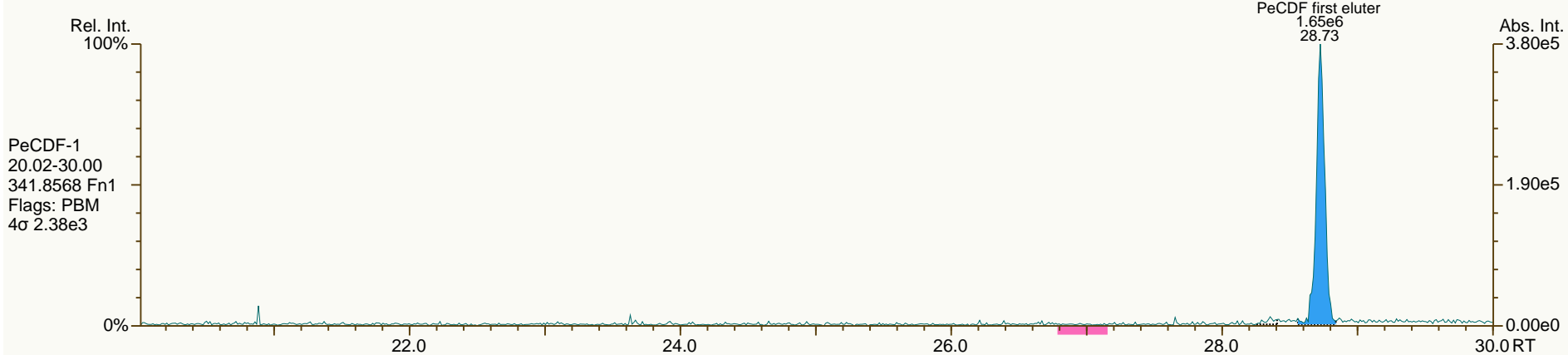
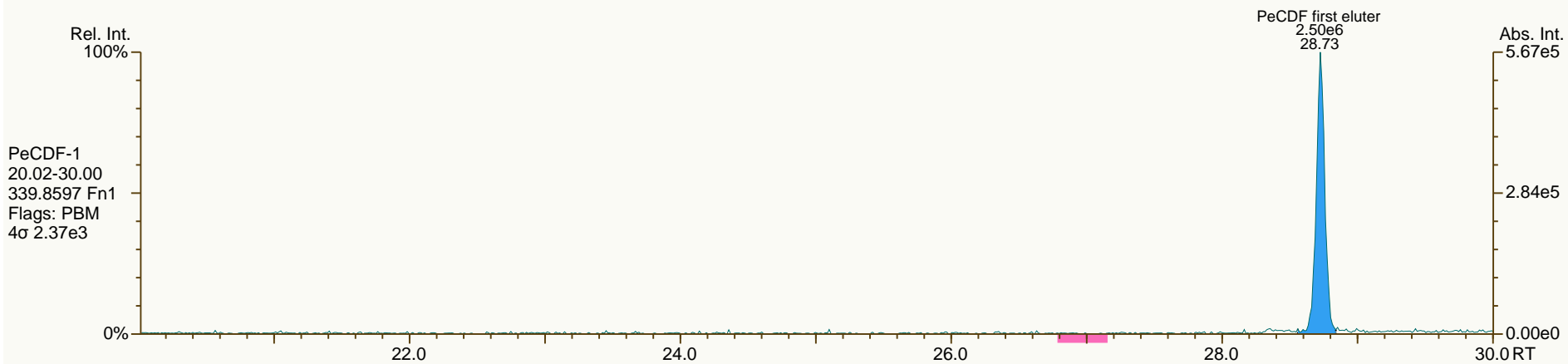
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SGS-AP ID: A5975_11402_DF_008RJ
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Sample ID: JW-SC402-A-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

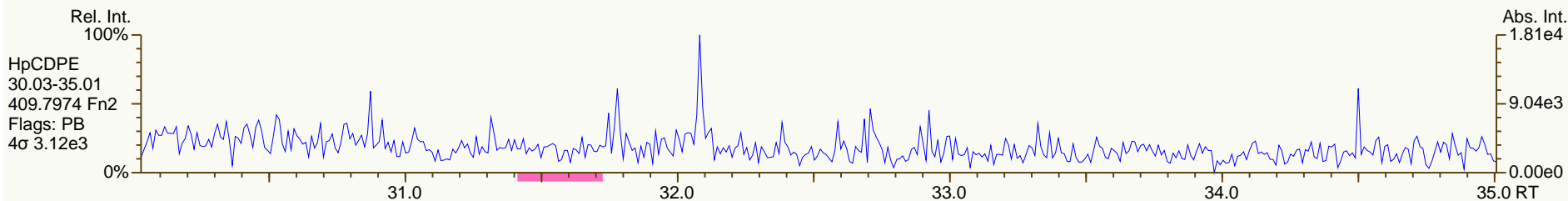
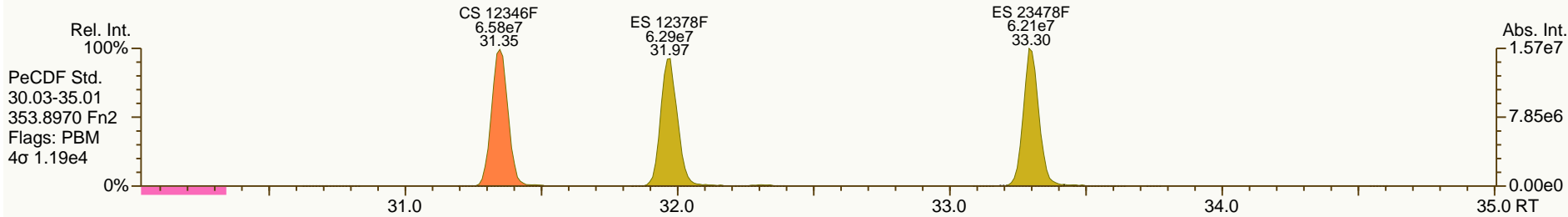
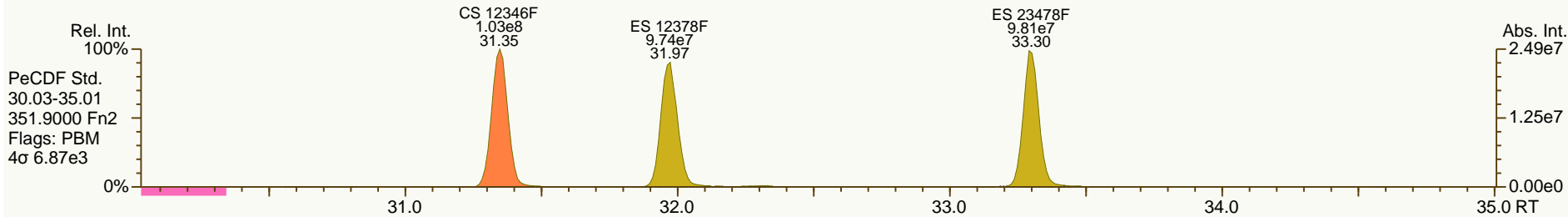
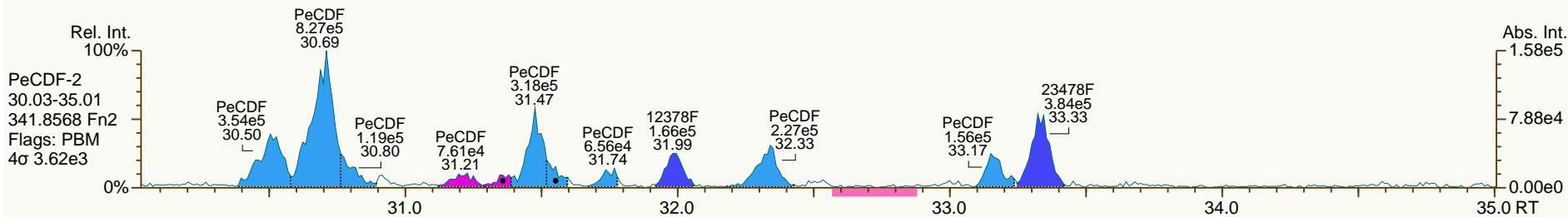
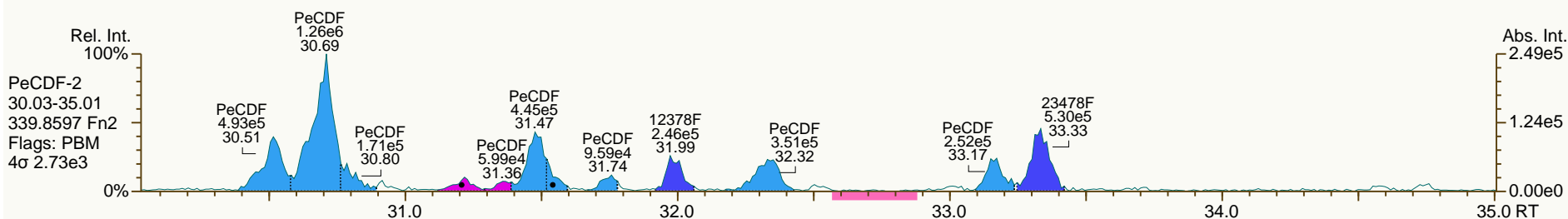
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SGS-AP ID: A5975_11402_DF_008RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-A-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

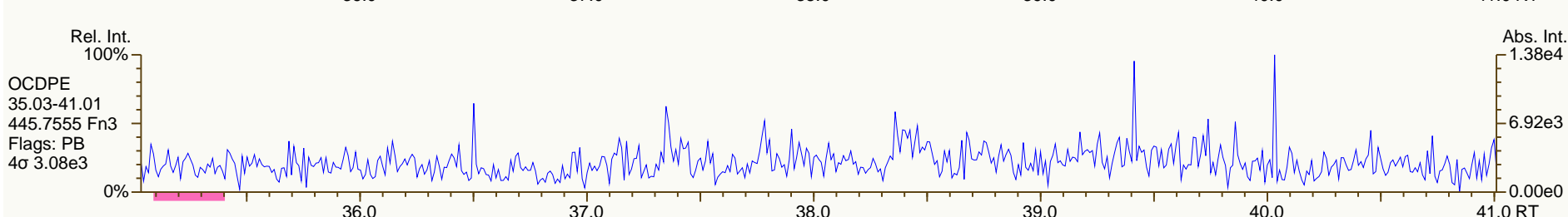
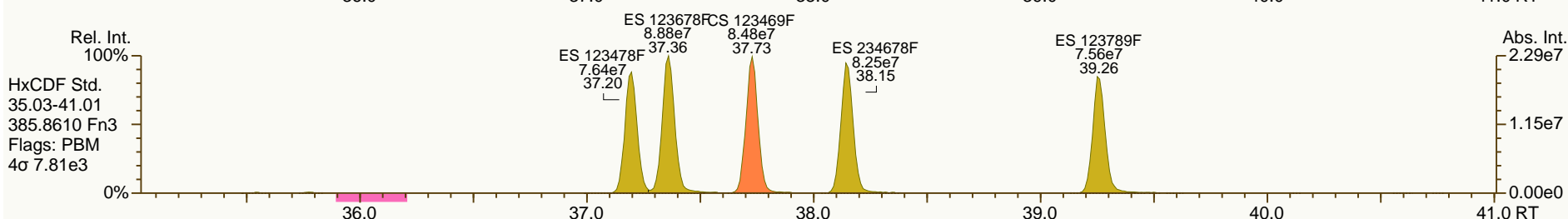
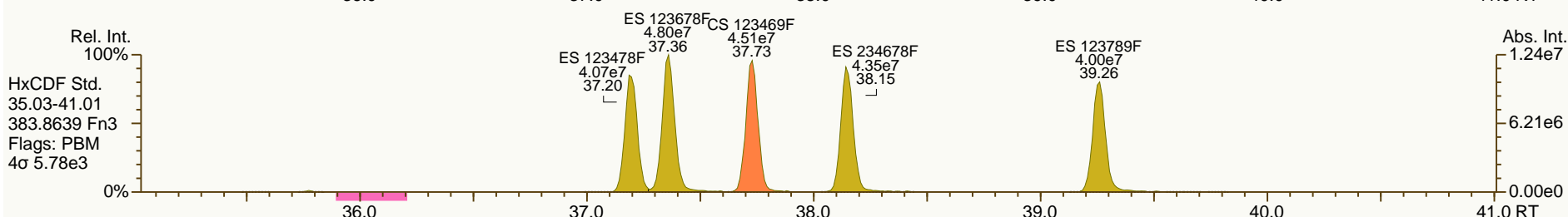
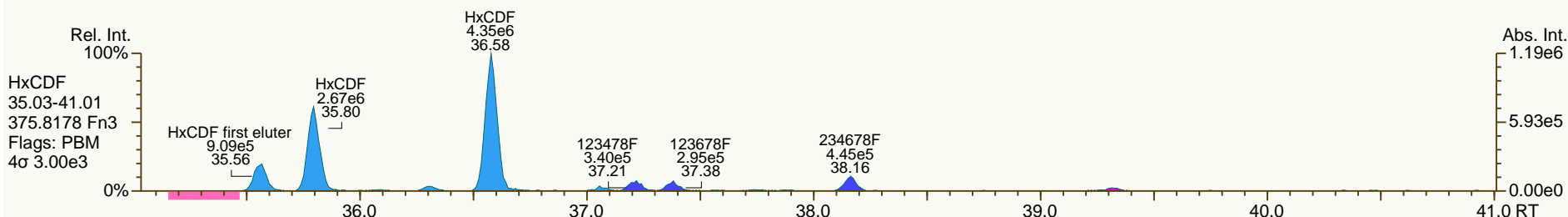
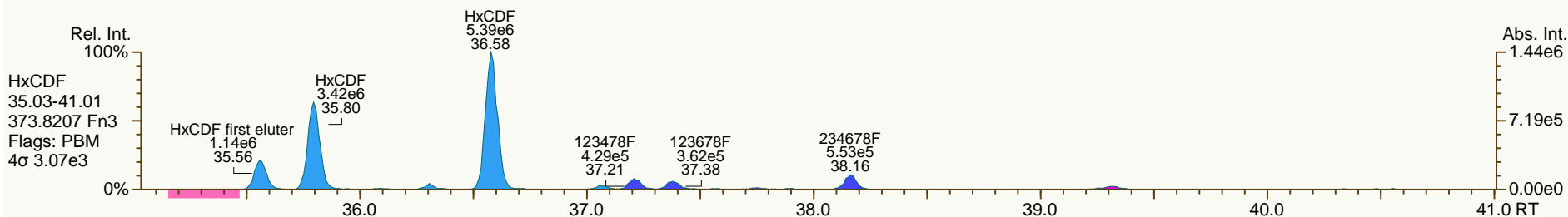
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SGS-AP ID: A5975_11402_DF_008RJ
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Sample ID: JW-SC402-A-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

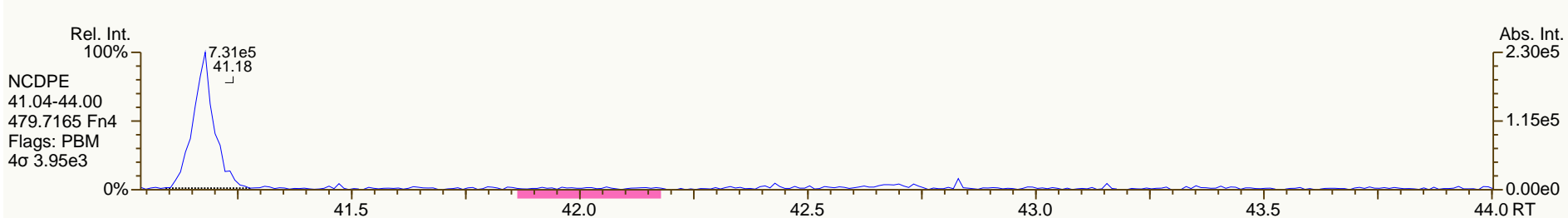
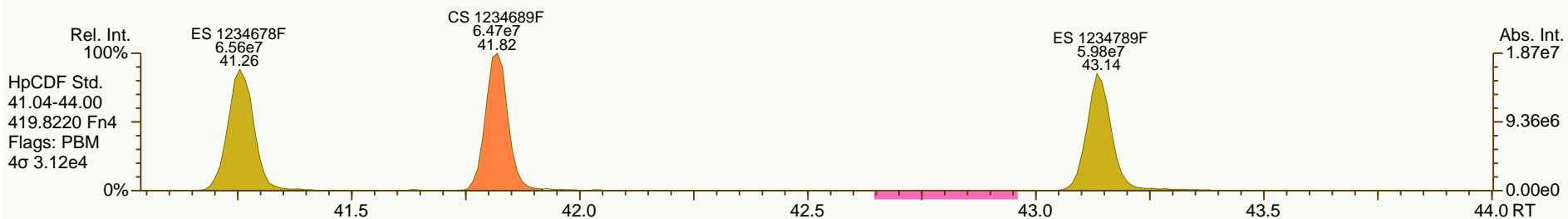
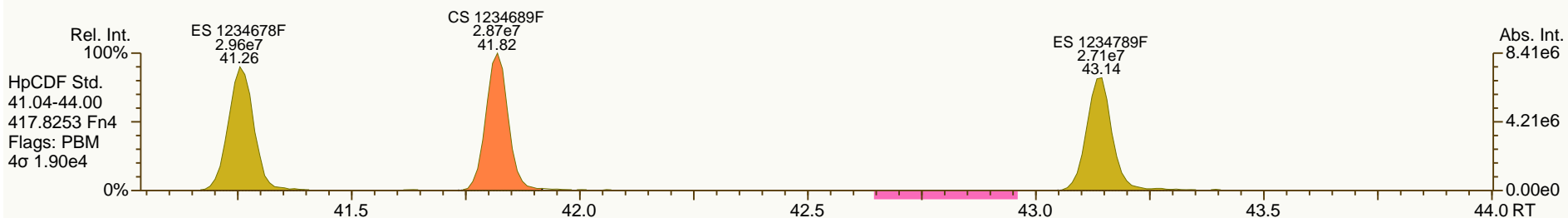
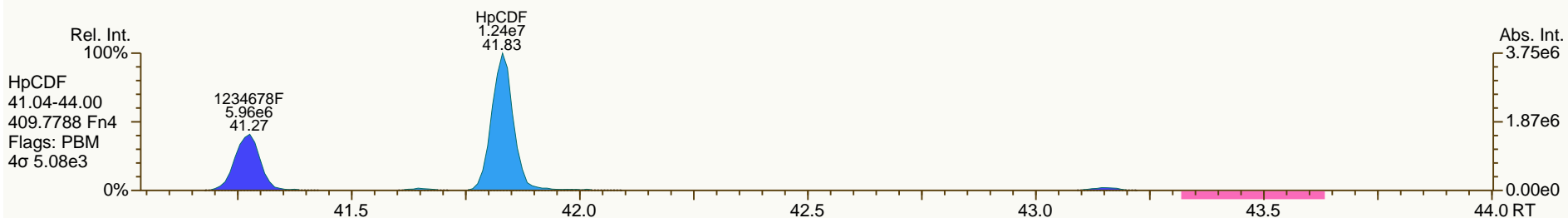
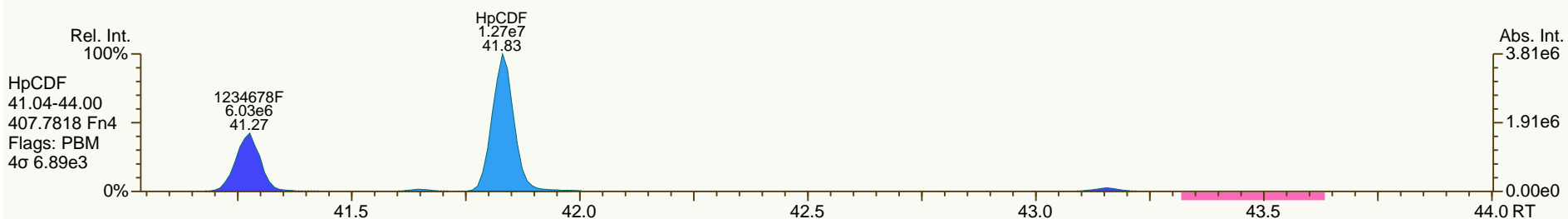
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 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

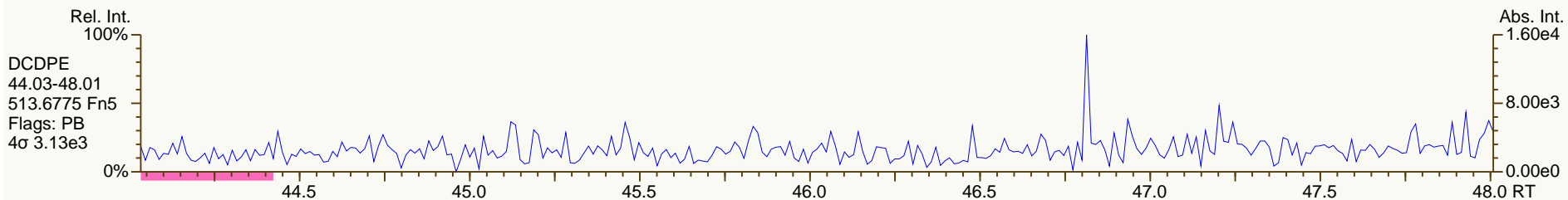
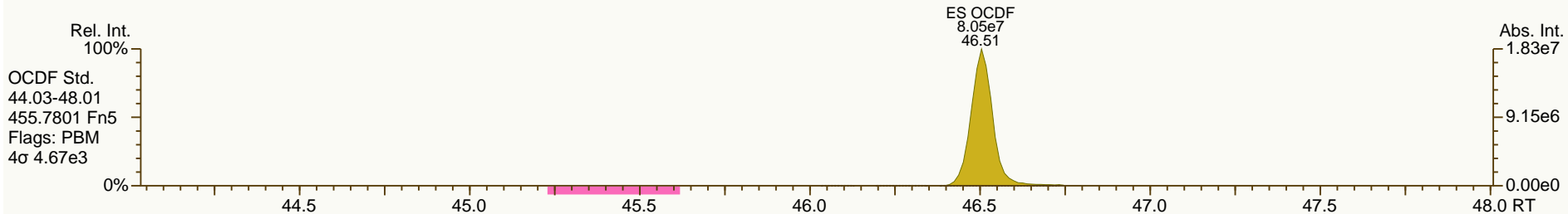
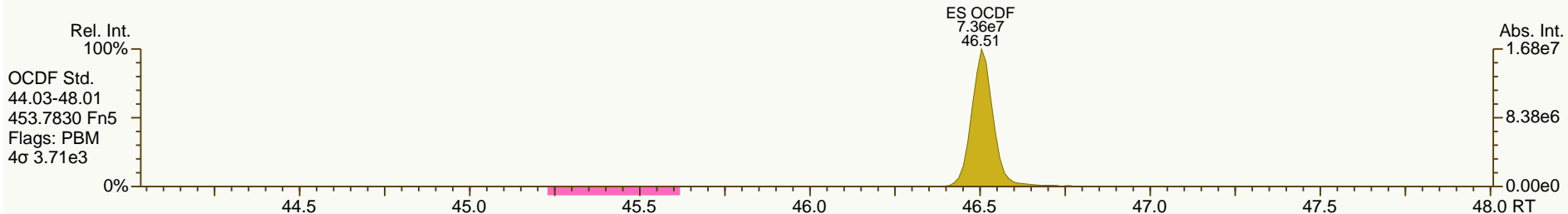
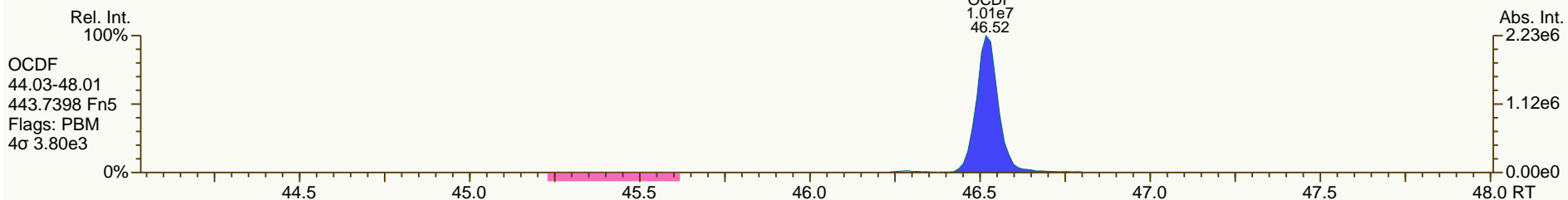
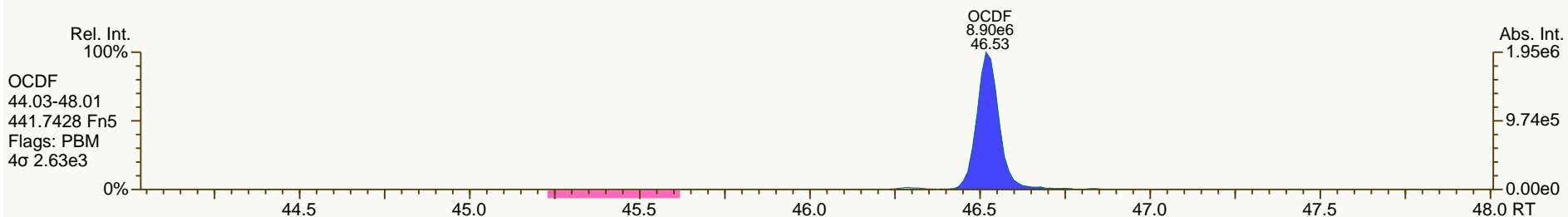
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SGS-AP ID: A5975_11402_DF_008RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-A-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

Acq: 14-OCT-2013 04:27:38
 User: MDC Datafile: 131013P2-08



Lab ID: A5975_11402_DF_009RJ

Acq'd: 14 Oct 2013 05:20 MDC

Wt/Vol: 10.03 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: JW-SC402-B-130928

UTP: 15-Oct-2013 09:47 MDC

J-level: 0.499 pg/g Split: 1

Checkcode: 089-341-FQT

Datafile: 131013P2-09

Report: 15 Oct 2013 09:47 MC

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37CI)

Name	Act RT	QC	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Conc.	Noise	DL
2378-TCDD	NotFnd		1.0009	-		-	-	-	1.18	-	4913	0.106
12378-PeCDD	NotFnd		1.0007	-		-	-	-	1.07	-	5628	0.135
123478-HxCDD	NotFnd		1.0004	-		-	-	-	1.19	-	6327	0.148
123678-HxCDD	NotFnd		1.0039	-		-	-	-	1.19	-	6327	0.149
123789-HxCDD	NotFnd		1.0127	-		-	-	-	1.12	-	6327	0.156
1234678-HpCDD	42.55		1.0004	1.0003	-0.3	7.64E+05	1.12	Y	1.08	2.04	6775	0.165
OCDD	46.28		1.0003	1.0003	0	3.43E+06	0.92	Y	1.14	12.7	7154	0.307
2378-TCDF	26.42		1.0009	1.0008	-0.2	1.49E+05	0.85	Y	1.10	0.178	5242	0.0773
12378-PeCDF	NotFnd		1.0006	-		-	-	-	1.17	-	5053	0.0687
23478-PeCDF	NotFnd		1.0005	-		-	-	-	1.14	-	5053	0.0668
123478-HxCDF	NotFnd		1.0005	-		-	-	-	1.34	-	5113	0.0742
123678-HxCDF	NotFnd		1.0005	-		-	-	-	1.23	-	5113	0.0731
234678-HxCDF	NotFnd		1.0005	-		-	-	-	1.26	-	5113	0.0787
123789-HxCDF	NotFnd		1.0005	-		-	-	-	1.23	-	5113	0.0901
1234678-HpCDF	41.27		1.0004	1.0003	-0.2	3.50E+05	1.07	Y	1.42	0.626	6813	0.119
1234789-HpCDF	NotFnd		1.0003	-		-	-	-	1.39	-	6813	0.136
OCDF	46.52		1.0004	1.0003	-0.3	4.45E+05	0.98	Y	1.11	1.23	5678	0.186

Name	Act RT		Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Rec. %
ES 2378-TCDD	27.39		1.0280	1.0281	+0.2	9.50E+07	0.78	Y	1.02	90.5
ES 12378-PeCDD	33.70		1.2640	1.2650	+1.6	8.37E+07	1.59	Y	0.92	88.8
ES 123478-HxCDD	38.37		0.9909	0.9909	0	6.90E+07	1.26	Y	1.02	80
ES 123678-HxCDD	38.50		0.9943	0.9943	0	6.91E+07	1.19	Y	1.01	81.4
ES 123789-HxCDD	38.84		1.0030	1.0031	+0.2	7.74E+07	1.20	Y	1.14	80.6
ES 1234678-HpCDD	42.54		1.0984	1.0987	+0.7	6.88E+07	1.08	Y	1.02	79.9
ES OCDD	46.27		1.1947	1.1950	+0.7	9.45E+07	0.88	Y	0.72	77.8
ES 2378-TCDF	26.40		1.0617	1.0620	+0.4	1.53E+08	0.72	Y	1.01	93.6
ES 12378-PeCDF	31.96		1.2848	1.2858	+1.5	1.34E+08	1.55	Y	0.89	93.4
ES 23478-PeCDF	33.29		1.3381	1.3392	+1.6	1.36E+08	1.57	Y	0.91	93.1
ES 123478-HxCDF	37.19		0.9606	0.9605	-0.2	9.63E+07	0.54	Y	1.53	74.7
ES 123678-HxCDF	37.36		0.9649	0.9648	-0.2	1.12E+08	0.53	Y	1.73	76.8
ES 234678-HxCDF	38.15		0.9851	0.9852	+0.2	1.04E+08	0.53	Y	1.61	76.4
ES 123789-HxCDF	39.26		1.0139	1.0140	+0.2	9.52E+07	0.53	Y	1.39	81.1
ES 1234678-HpCDF	41.25		1.0654	1.0655	+0.2	7.86E+07	0.46	Y	1.20	77.7
ES 1234789-HpCDF	43.14		1.1140	1.1143	+0.7	7.36E+07	0.45	Y	1.07	81.7
ES OCDF	46.51		1.2010	1.2012	+0.5	1.31E+08	0.92	Y	1.04	74.3

Lab ID: A5975_11402_DF_009RJ

Acq'd: 14 Oct 2013 05:20 MDC

Wt/Vol: 10.03 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: JW-SC402-B-130928

UTP: 15-Oct-2013 09:47 MDC

J-level: 0.499 pg/g

Split: 1

Checkcode: 089-341-FQT

Datafile: 131013P2-09

Report: 15 Oct 2013 09:47 MC

StdS (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37CI)

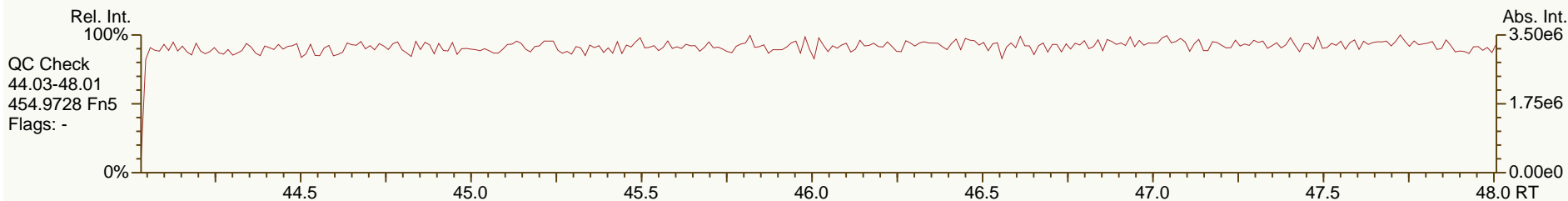
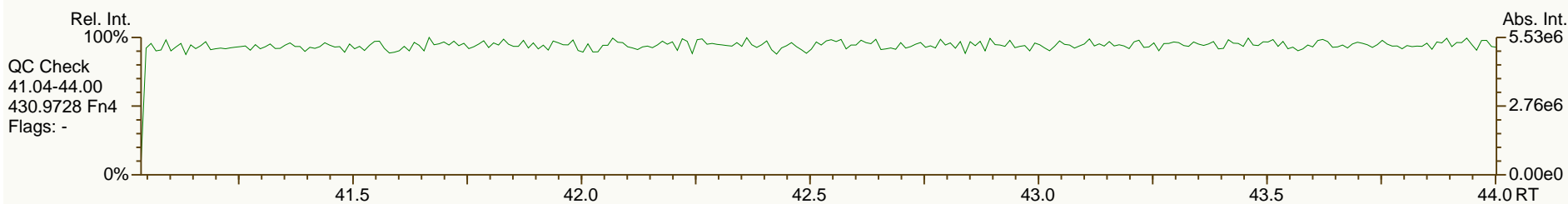
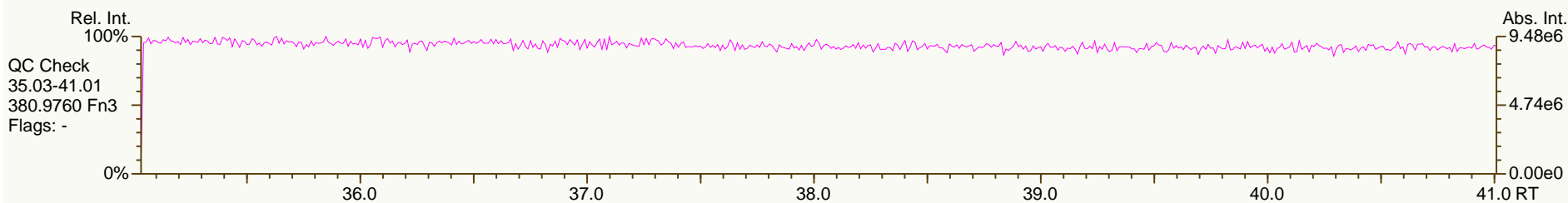
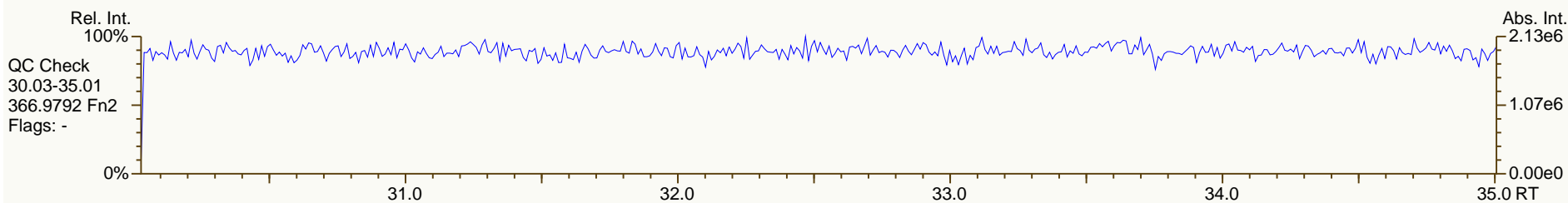
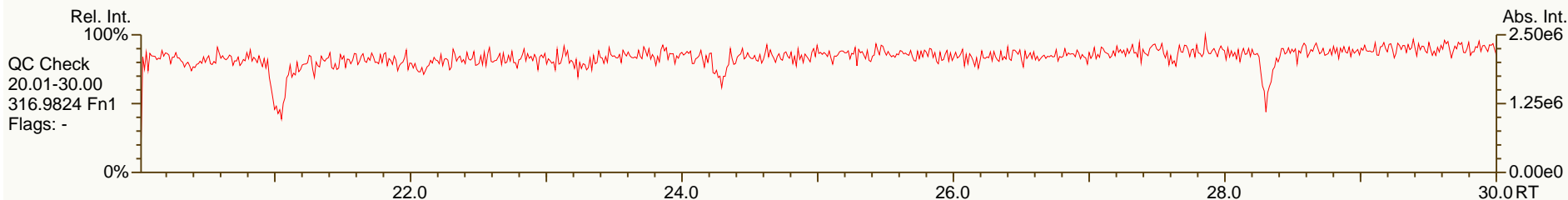
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JS 1234-TCDD	26.64		-	-	-	1.03E+08	0.80	Y	-	-
JS 1234-TCDF	24.86		-	-	-	1.62E+08	0.72	Y	-	-
JS 123467-HxCDD	38.72		-	-	-	4.21E+07	1.20	Y	-	-
CS 37C1-2378-TCDD	27.41		1.0289	1.0291	+0.3	4.51E+07	n/a	-	1.13	97.1
CS 12347-PeCDD	33.10		1.2418	1.2426	+1.3	8.52E+07	1.61	Y	0.88	94.9
CS 12346-PeCDF	31.34		1.2599	1.2607	+1.2	1.36E+08	1.57	Y	0.90	93.2
CS 123469-HxCDF	37.72		0.9743	0.9743	0	1.06E+08	0.53	Y	1.40	89.9
CS 1234689-HpCDF	41.82		1.0798	1.0801	+0.7	7.73E+07	0.46	Y	1.09	84
SS 37C1-2378-TCDD	27.41		1.0289	1.0291	+0.3	4.51E+07	n/a	-	1.11	106
SS 12347-PeCDD	33.10		1.2418	1.2426	+1.3	8.52E+07	1.61	Y	0.96	106
SS 12346-PeCDF	31.34		1.2599	1.2607	+1.2	1.36E+08	1.57	Y	1.02	99.2
SS 123469-HxCDF	37.72		0.9743	0.9743	0	1.06E+08	0.53	Y	0.81	117
SS 1234689-HpCDF	41.82		1.0798	1.0801	+0.7	7.73E+07	0.46	Y	0.91	108
AS 1368-TCDD	23.26		0.8735	0.8731	-0.6	1.18E+08	0.79	Y	1.01	114
AS 1368-TCDF	21.07		0.8478	0.8477	-0.1	1.71E+08	0.73	Y	1.22	86.8
FS 1278-TCDD	NotFnd		1.0139							
FS 12478-PeCDD	NotFnd		0.9570							
FS 123468-HxCDD	NotFnd		0.9674							
FS 1234679-HpCDD	NotFnd		0.9788							
TS 1378-TCDD	NotFnd		0.9313							

Totals	Conc	EMPC
Total TCDD	0.322	0.542
Total PeCDD	0	0
Total HxCDD	0	0.573
Total HpCDD	4.29	4.29
Total Tetra-Octa Dioxins	17.3	18.1
Total TCDF	0.178	0.559
Total PeCDF	0.302	0.302
Total HxCDF	0.297	0.492
Total HpCDF	1.67	1.67
Total Tetra-Octa Furans	3.68	4.25
Total Tetra-Octa Dioxins & Furans	21	22.4

SGS-AP ID: A5975_11402_DF_009RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-B-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

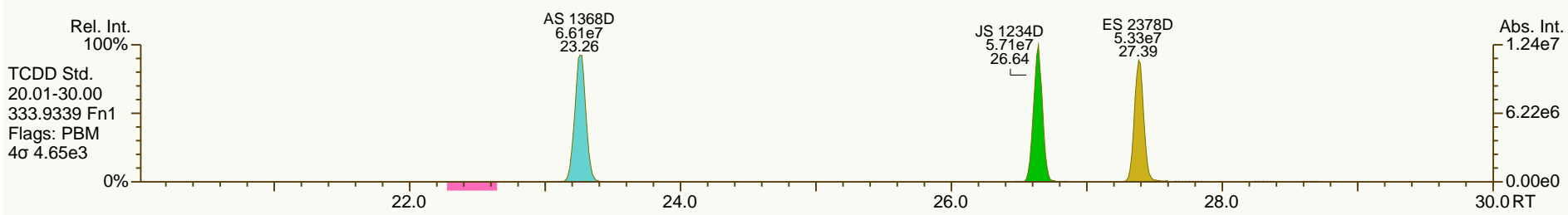
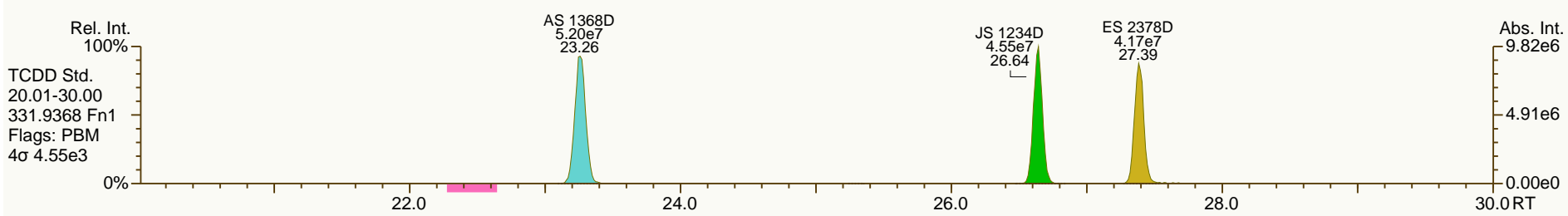
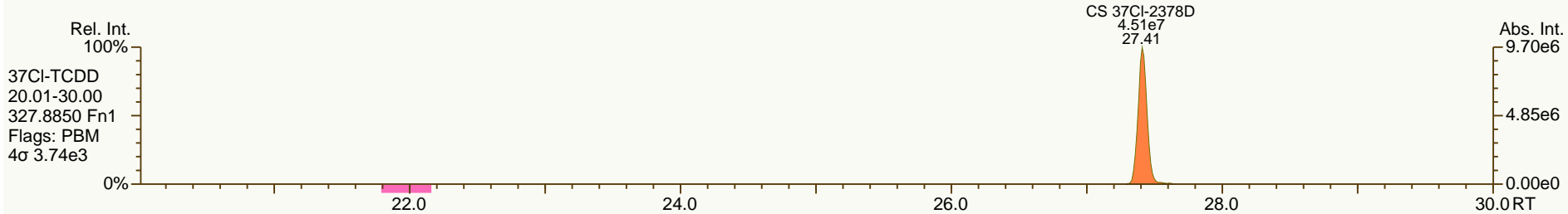
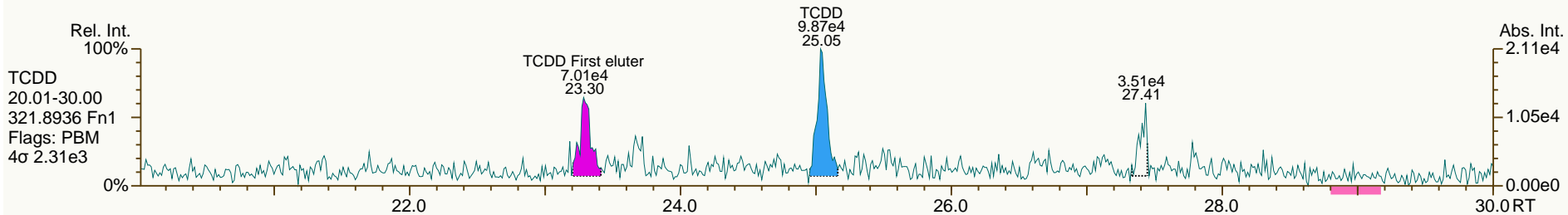
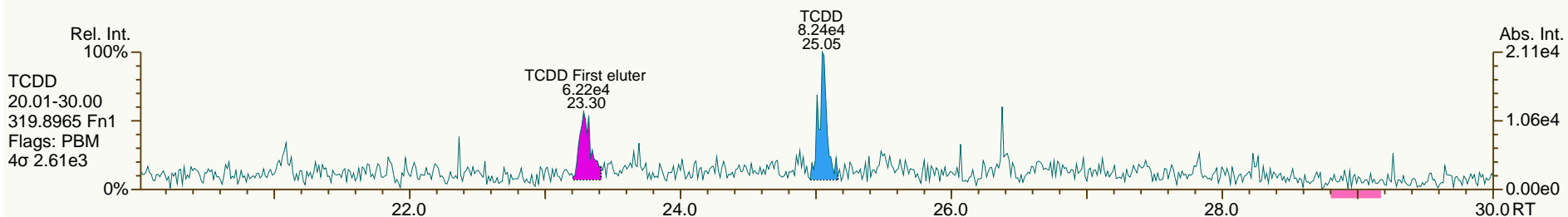
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SGS-AP ID: A5975_11402_DF_009RJ
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Sample ID: JW-SC402-B-130928
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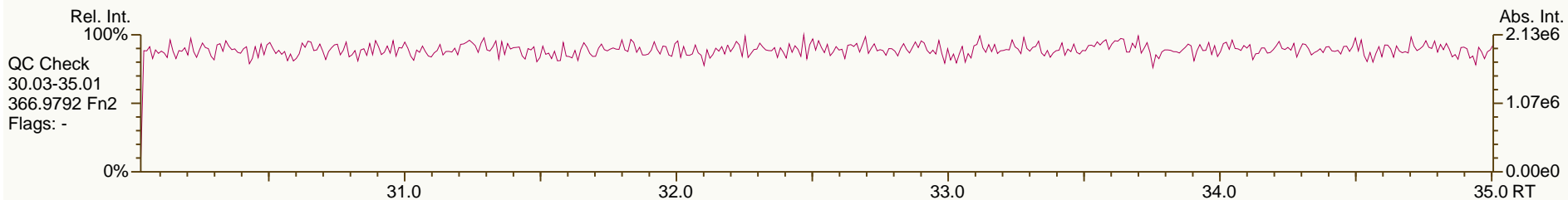
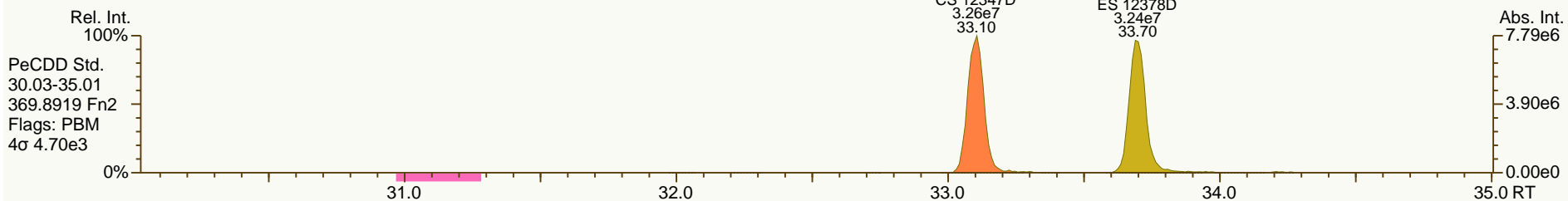
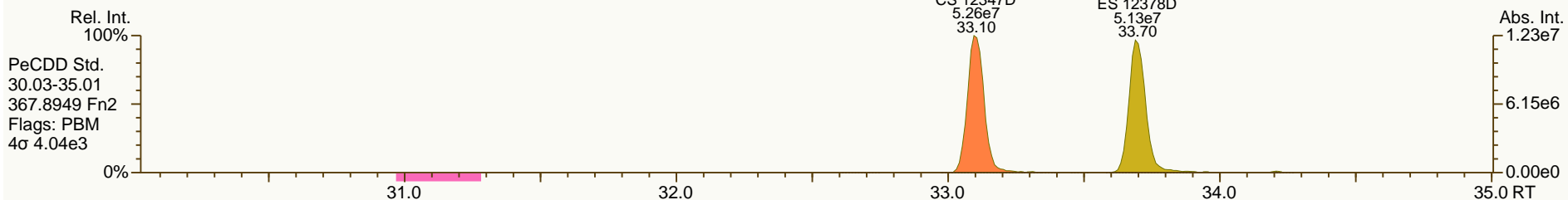
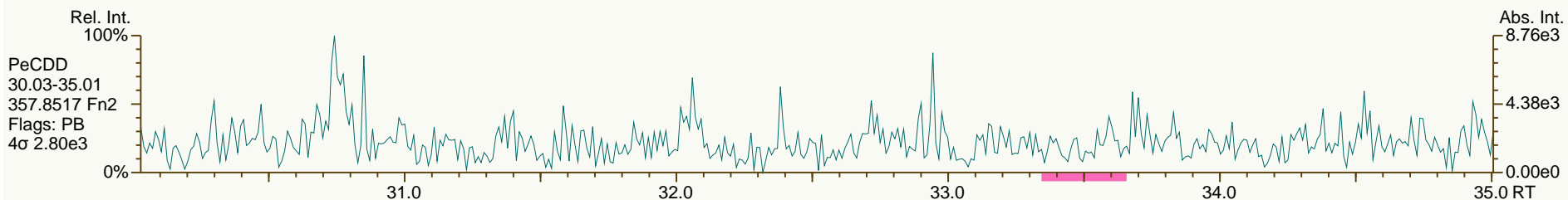
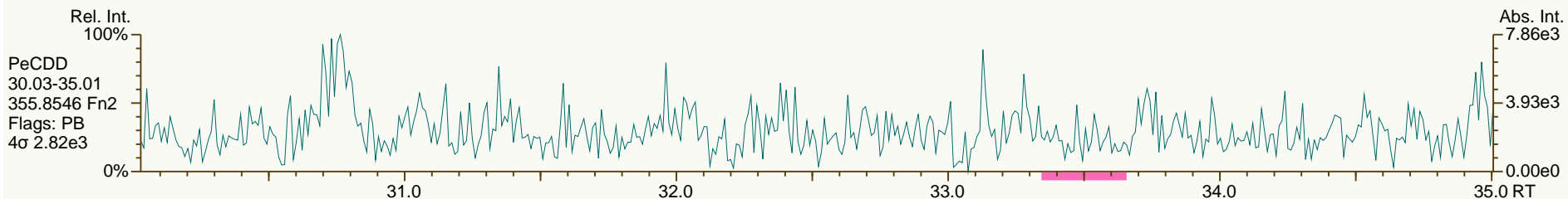
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SGS-AP ID: A5975_11402_DF_009RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-B-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

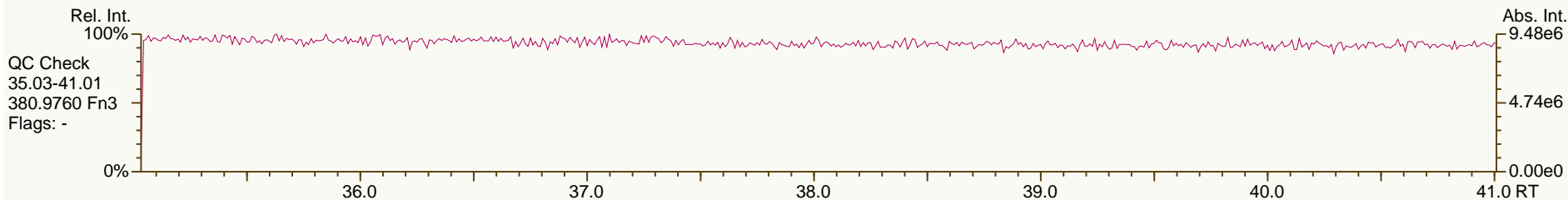
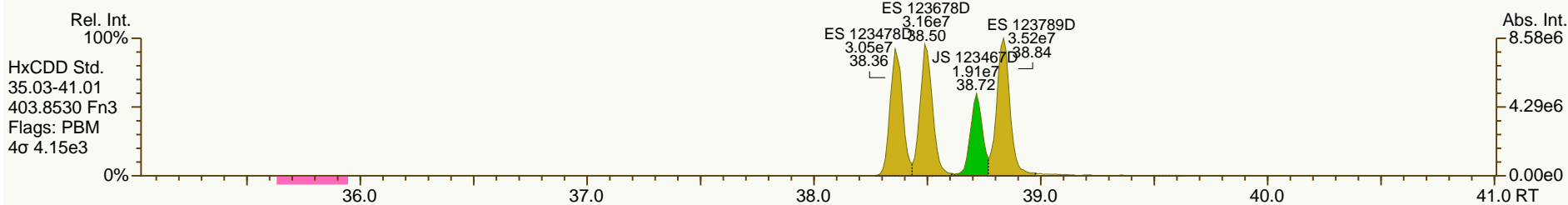
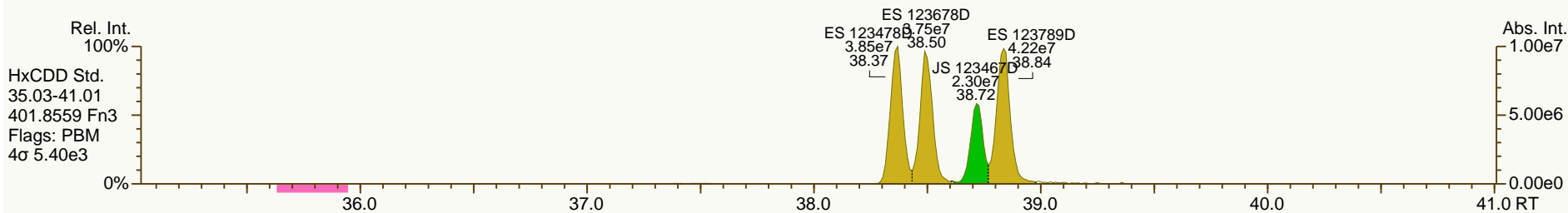
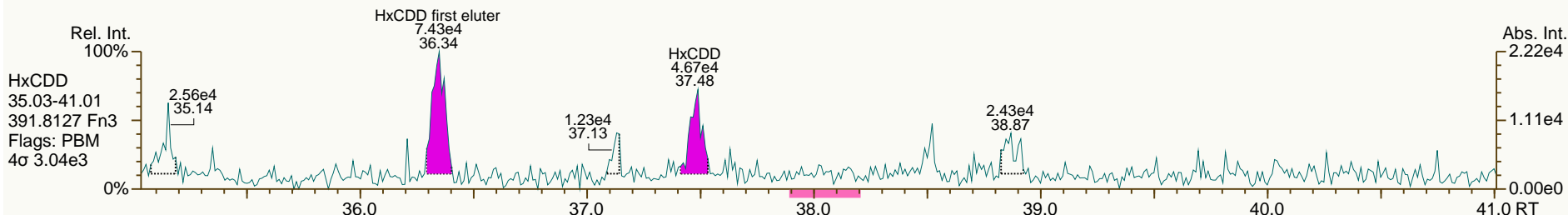
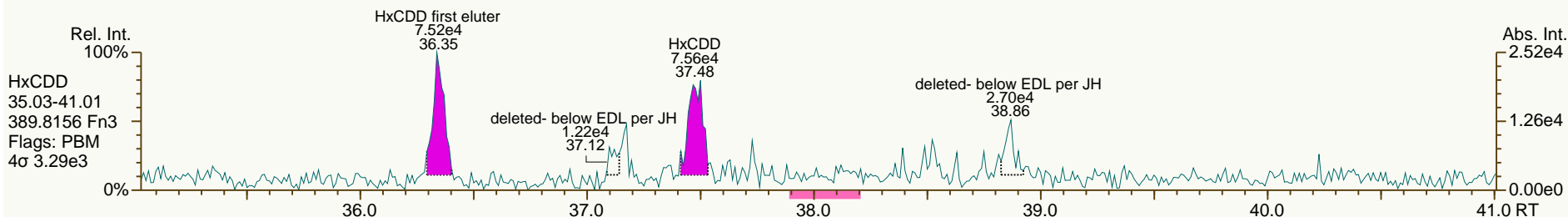
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SGS-AP ID: A5975_11402_DF_009RJ
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Sample ID: JW-SC402-B-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

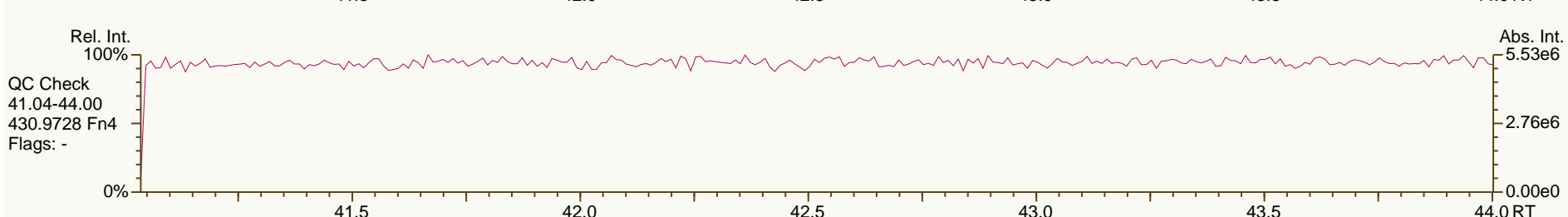
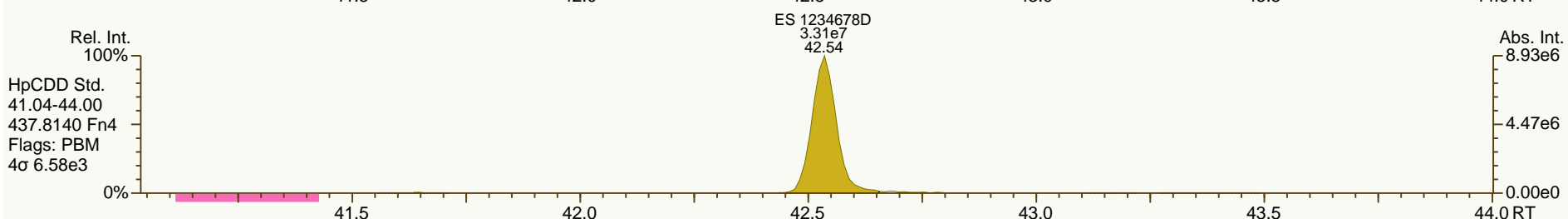
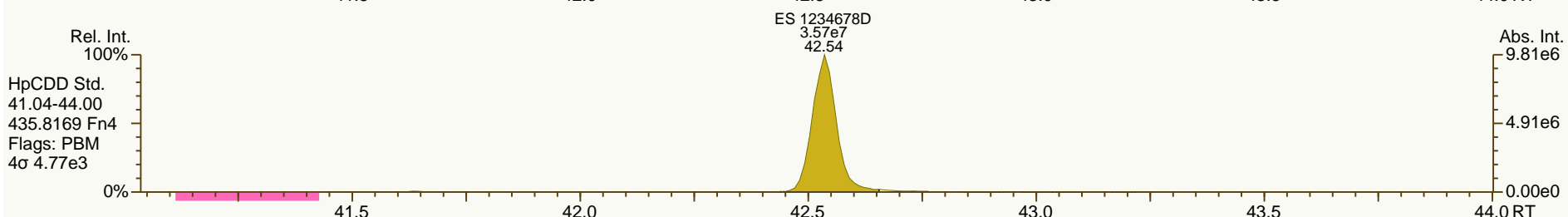
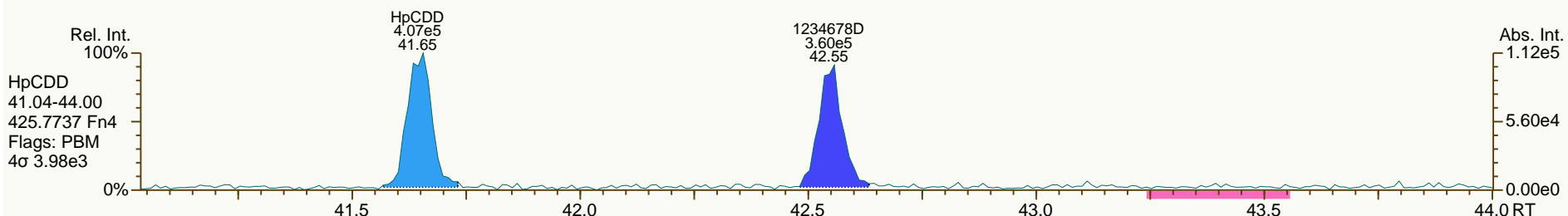
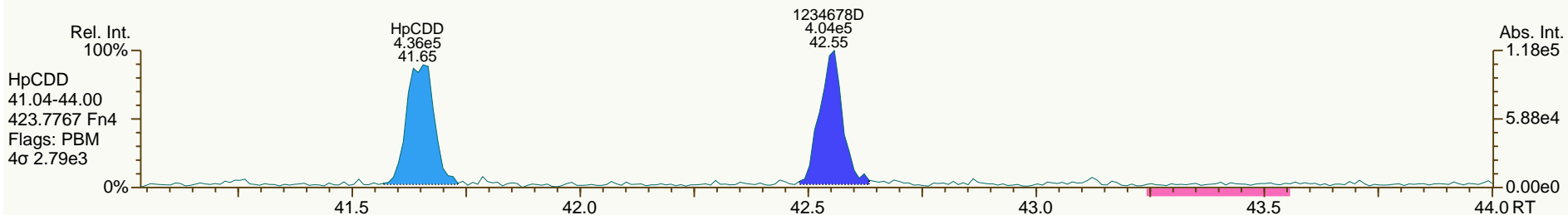
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Sample ID: JW-SC402-B-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

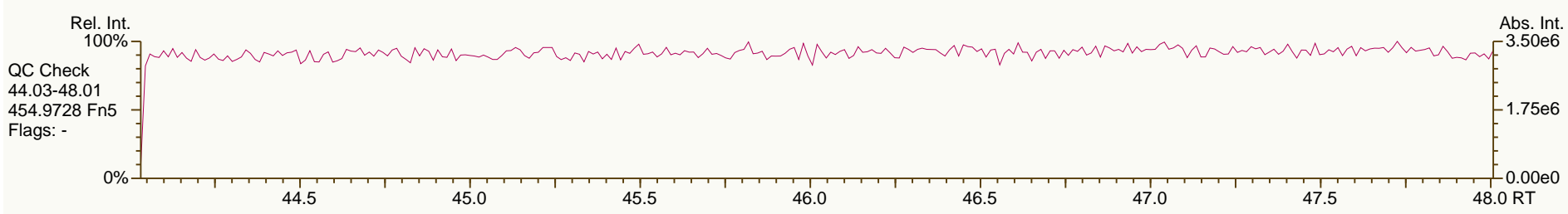
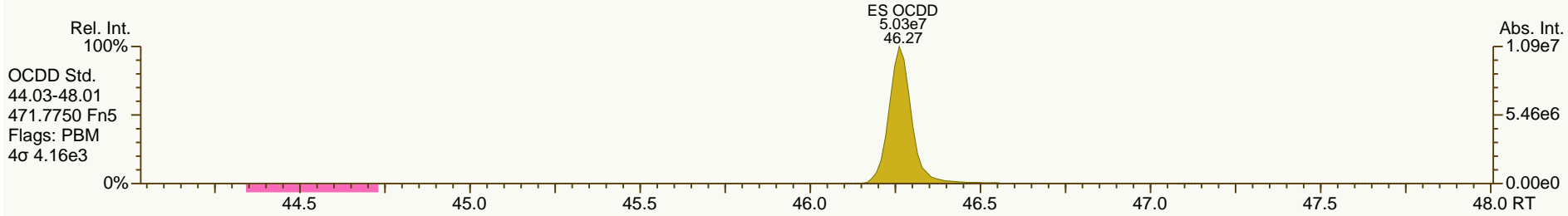
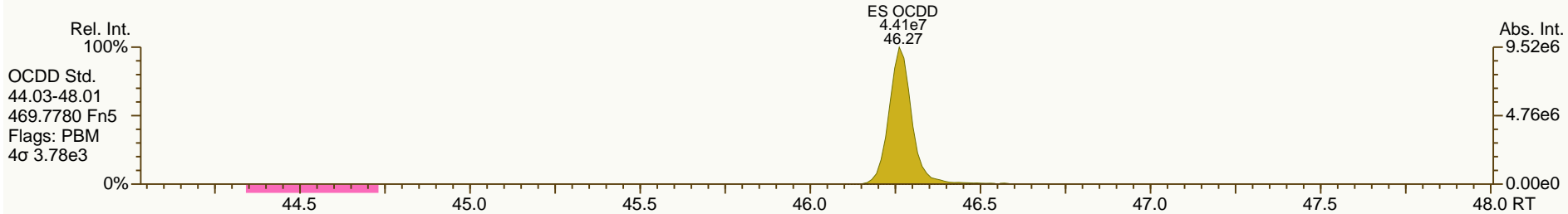
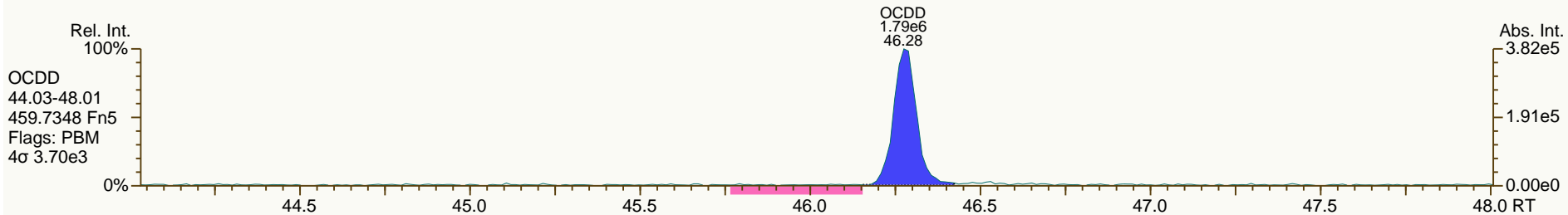
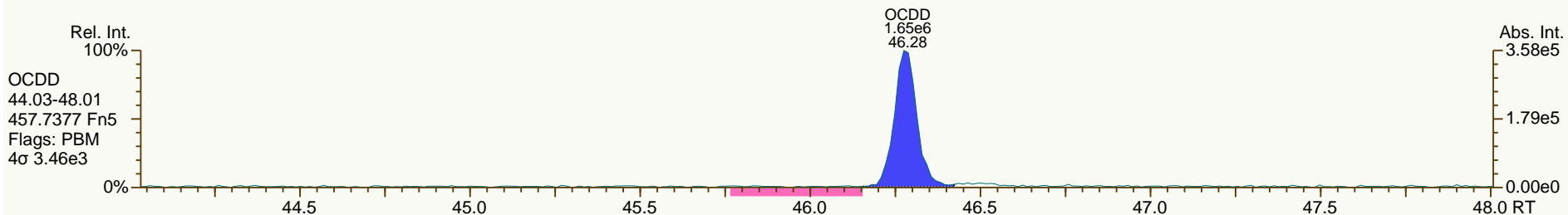
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SGS-AP ID: A5975_11402_DF_009RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-B-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

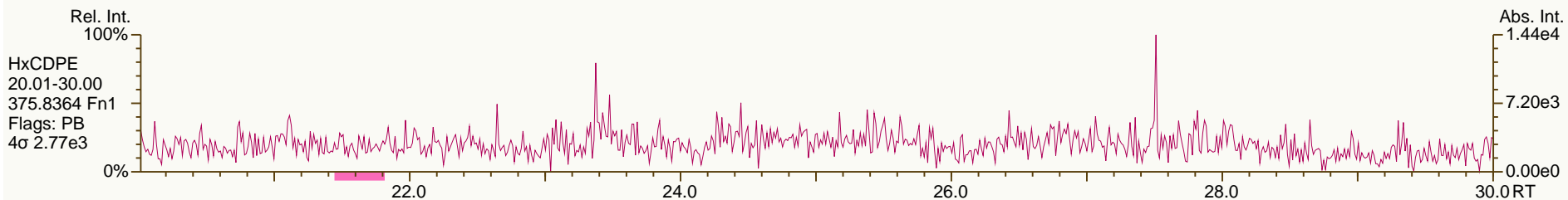
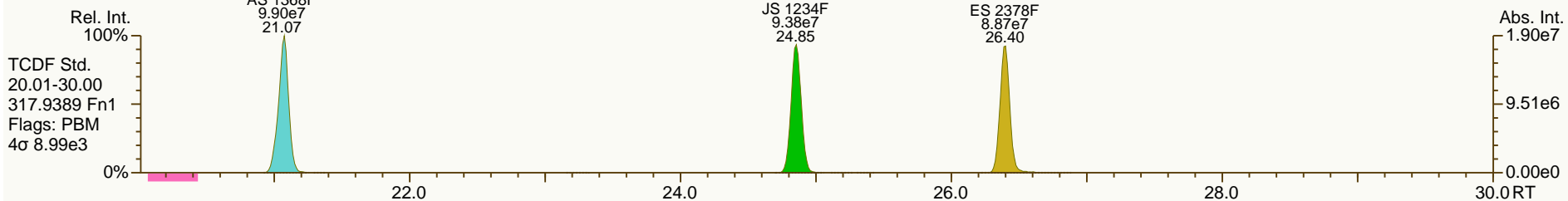
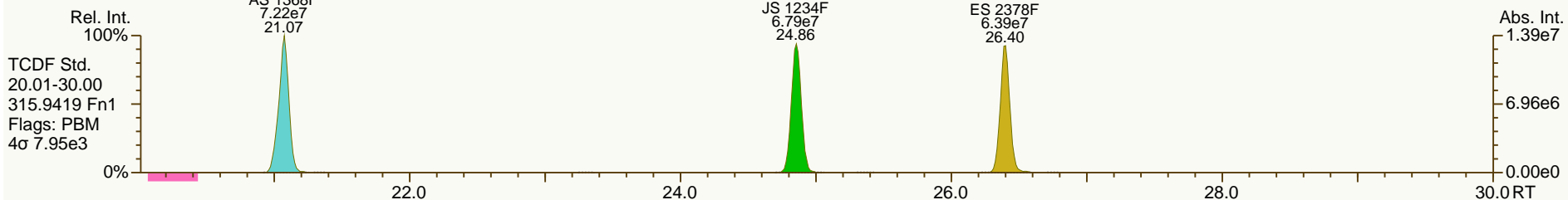
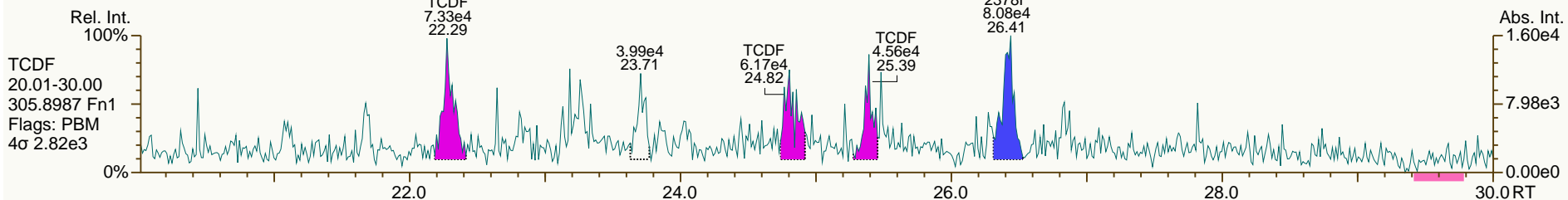
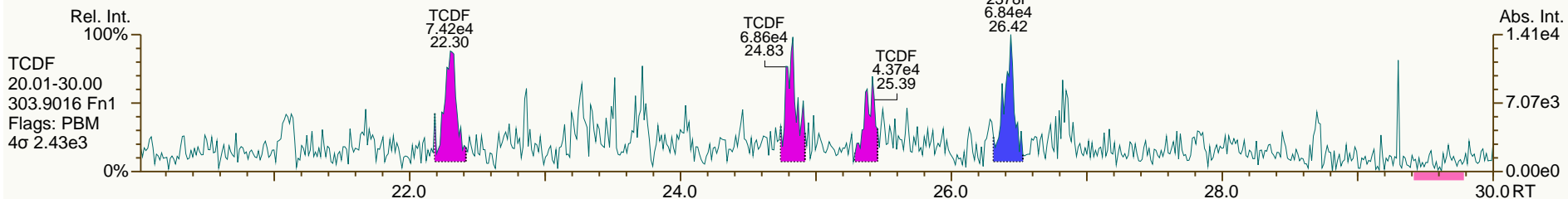
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SGS-AP ID: A5975_11402_DF_009RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-B-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

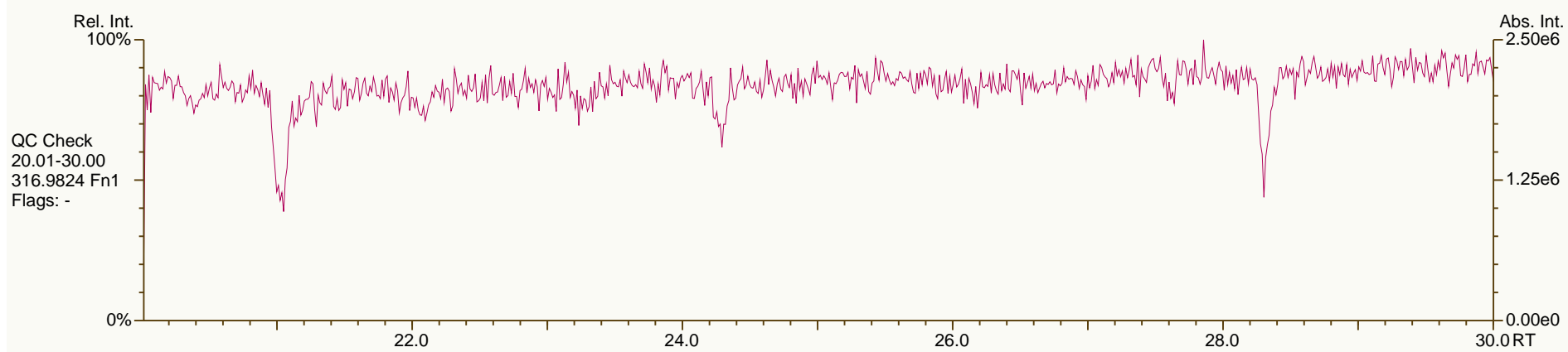
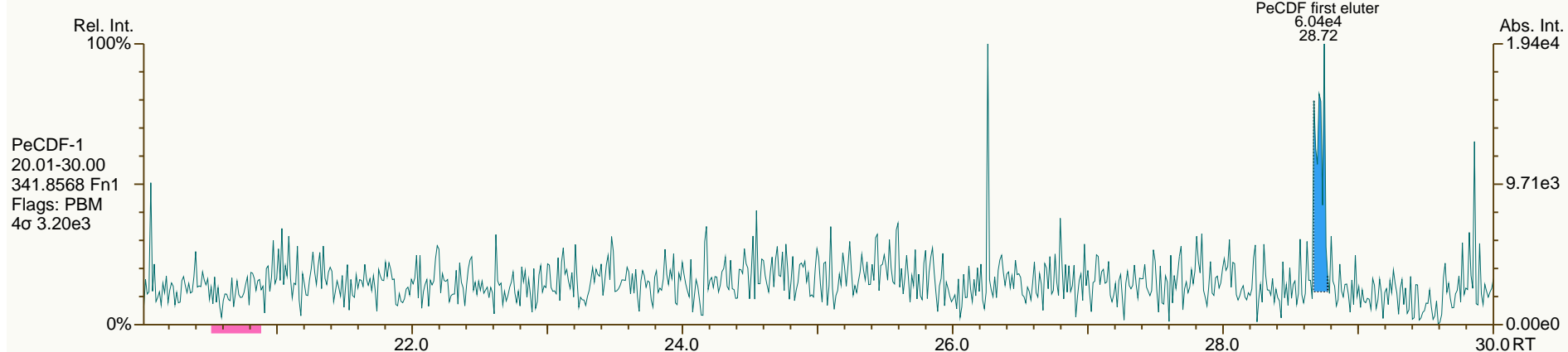
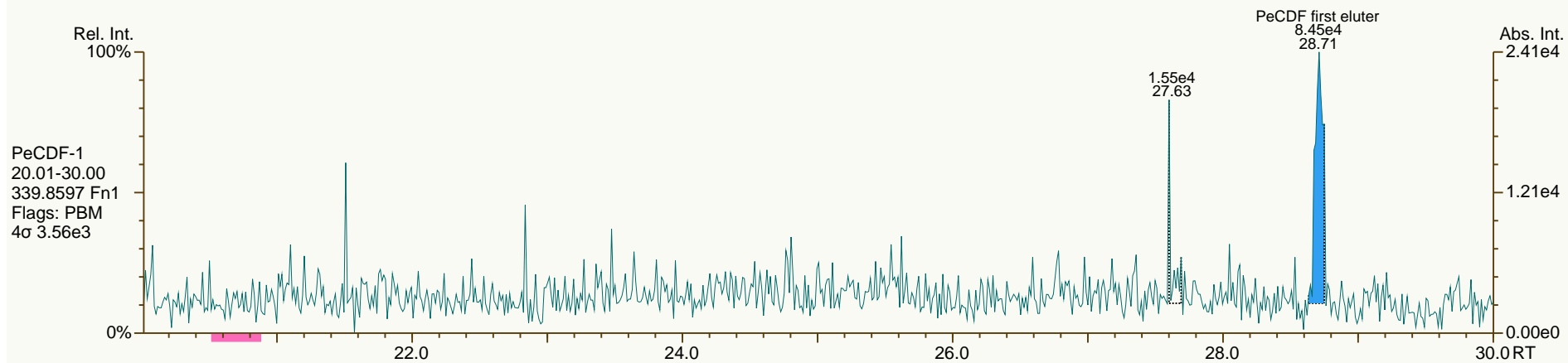
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Sample ID: JW-SC402-B-130928
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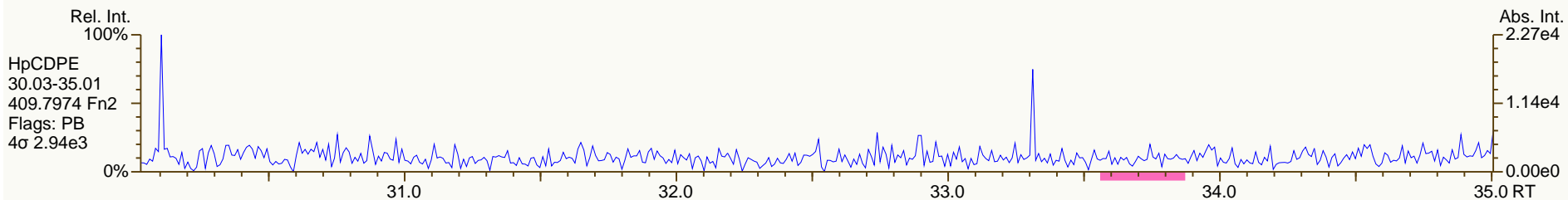
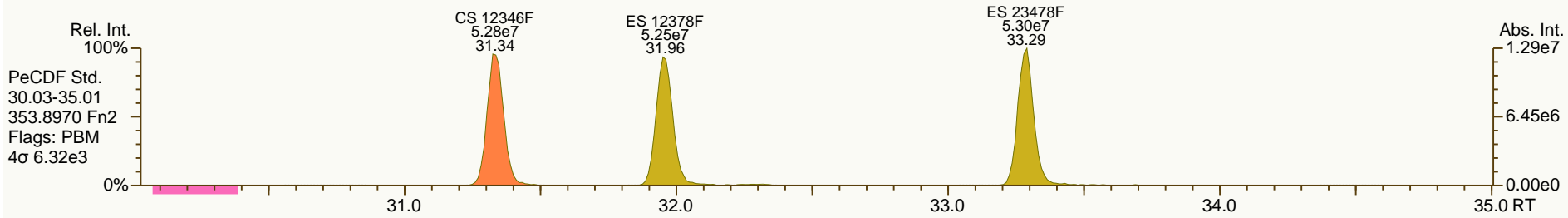
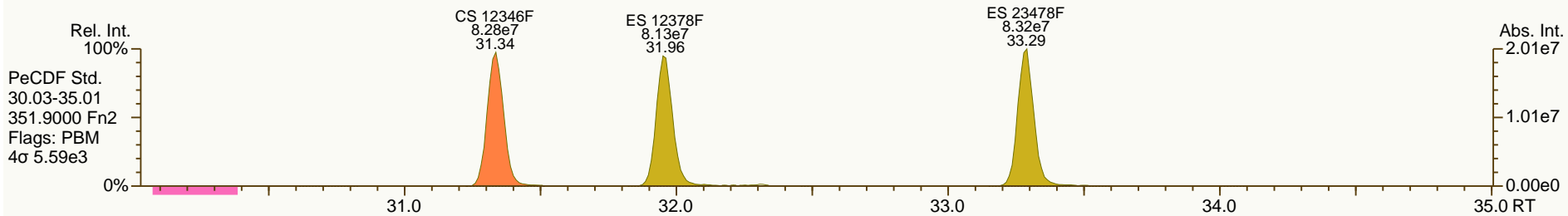
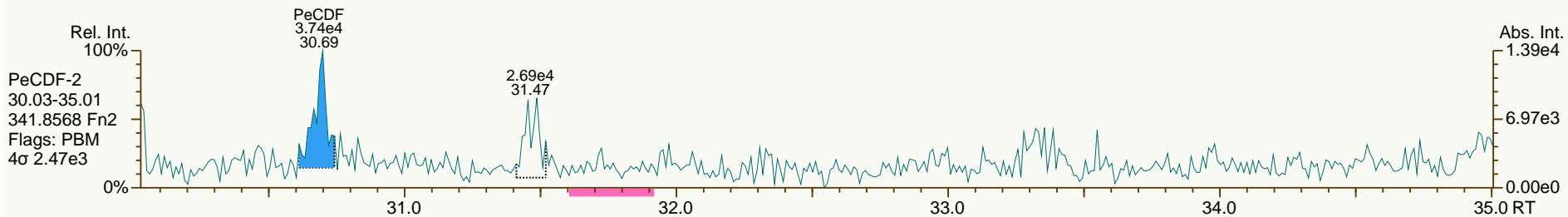
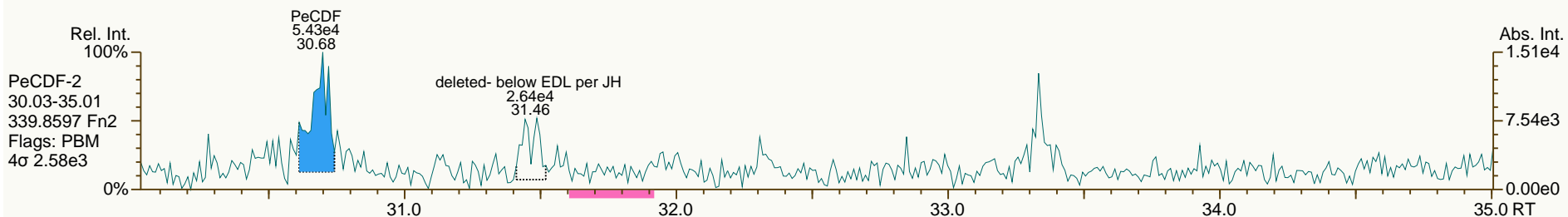
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SGS-AP ID: A5975_11402_DF_009RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-B-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

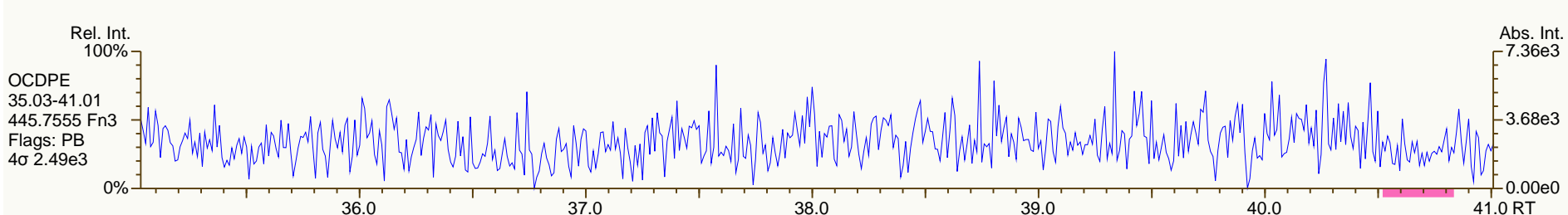
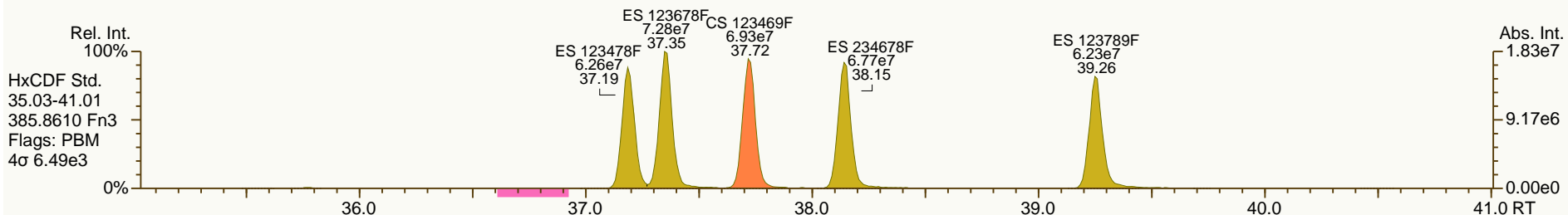
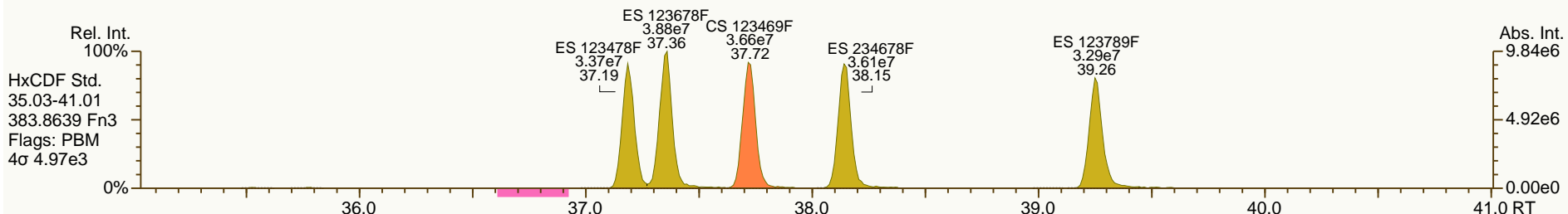
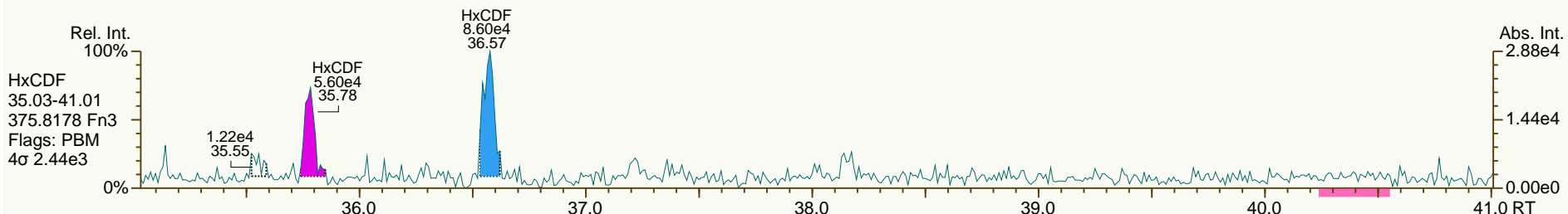
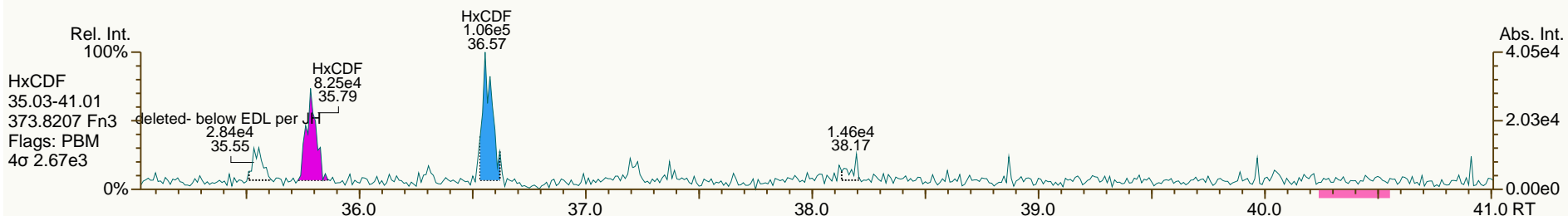
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SGS-AP ID: A5975_11402_DF_009RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-B-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

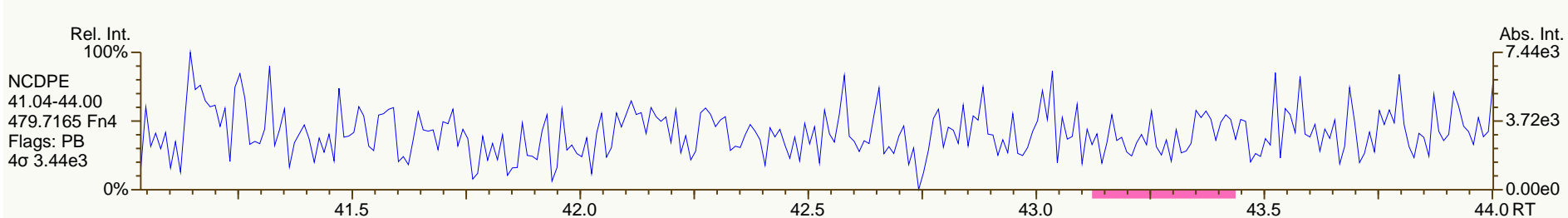
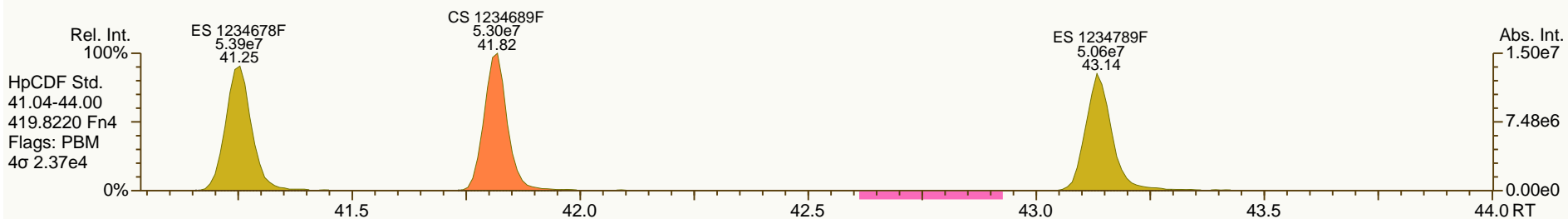
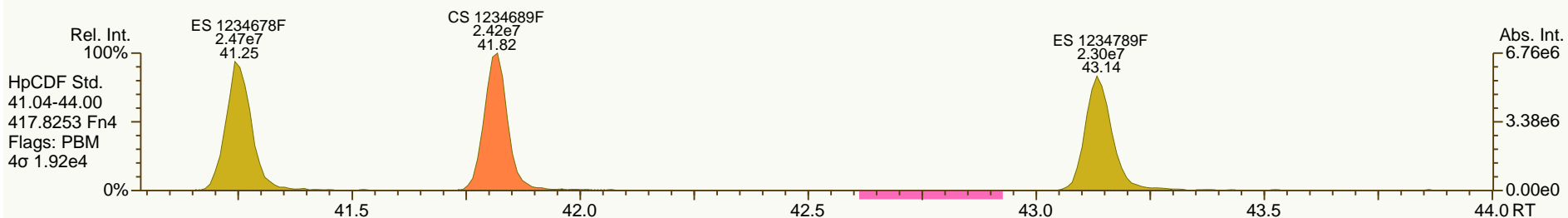
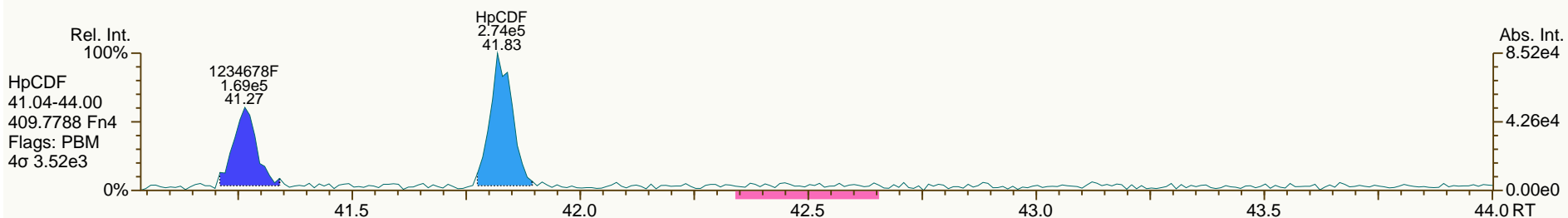
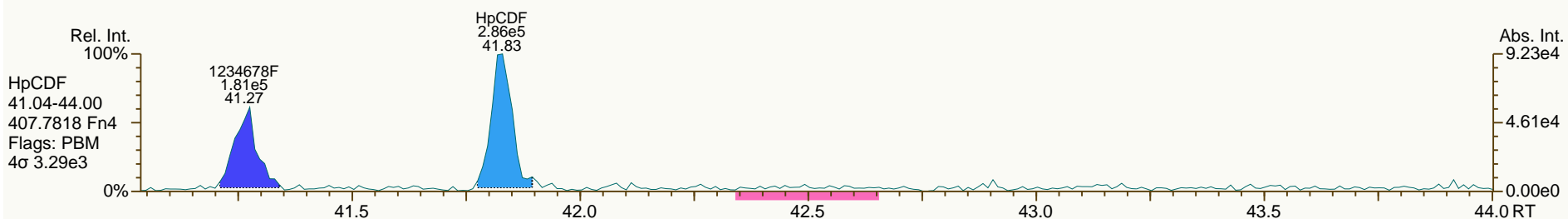
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SGS-AP ID: A5975_11402_DF_009RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-B-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

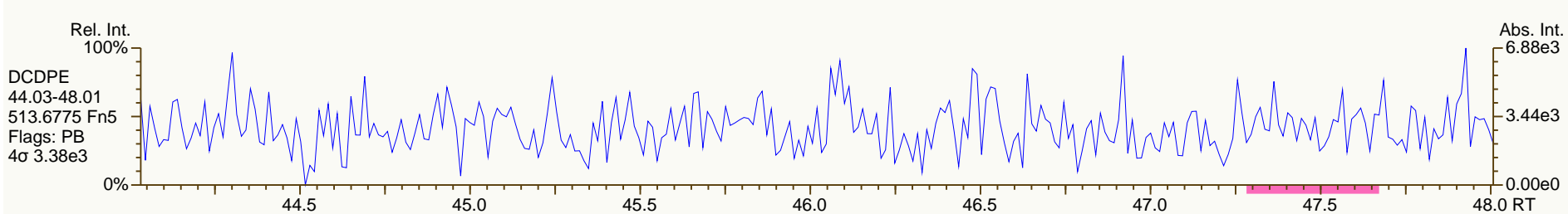
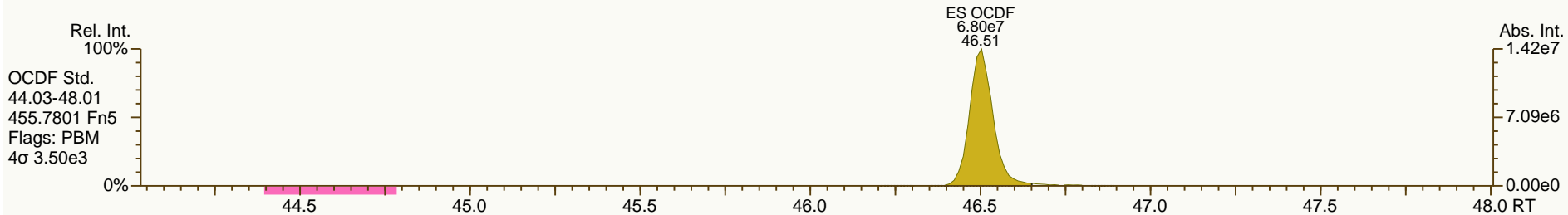
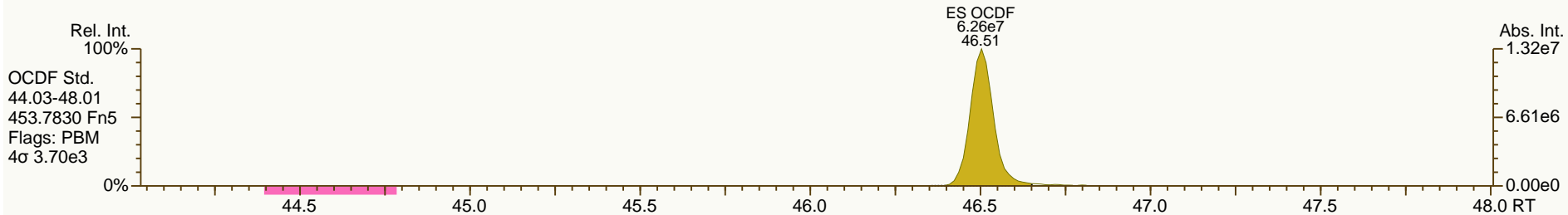
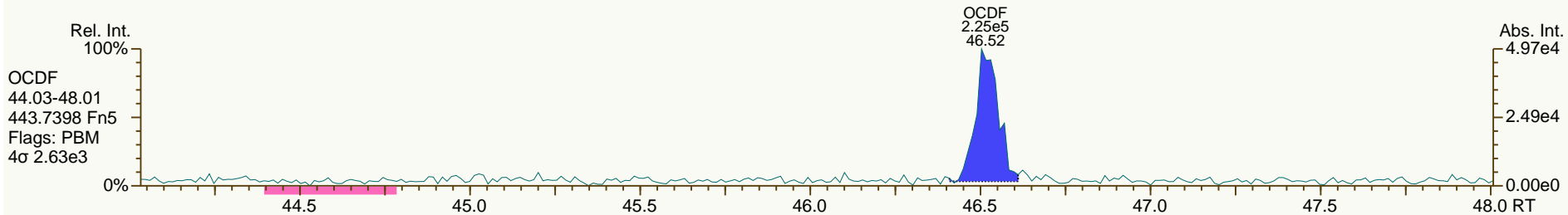
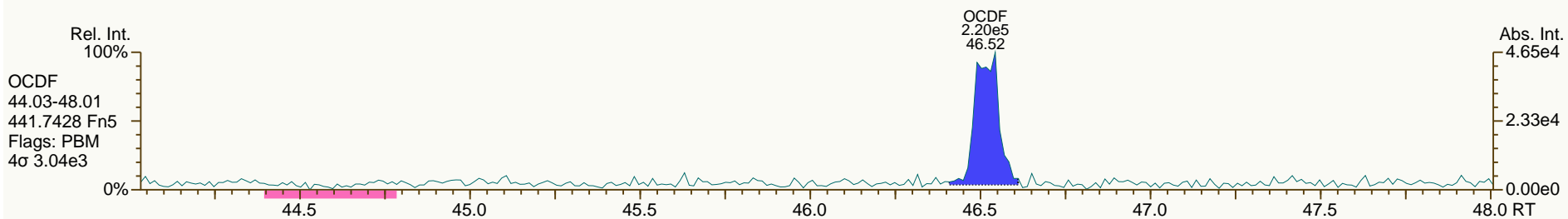
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SGS-AP ID: A5975_11402_DF_009RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-B-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

Acq: 14-OCT-2013 05:20:12
 User: MDC Datafile: 131013P2-09



Lab ID: A5975_11402_DF_010RJ

Acq'd: 14 Oct 2013 06:12 MDC

Wt/Vol: 10.01 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: JW-SC402-C-130928

UTP: 15-Oct-2013 09:49 MDC

J-level: 0.5 pg/g Split: 1

Checkcode: 308-442-QYD

Datafile: 131013P2-10

Report: 15 Oct 2013 09:49 MC

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37CI)

Name	Act RT	QC	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Conc.	Noise	DL
2378-TCDD	NotFnd		1.0009	-		-	-	-	1.18	-	5177	0.106
12378-PeCDD	NotFnd		1.0007	-		-	-	-	1.07	-	6152	0.135
123478-HxCDD	NotFnd		1.0004	-		-	-	-	1.19	-	5396	0.12
123678-HxCDD	NotFnd		1.0039	-		-	-	-	1.19	-	5396	0.124
123789-HxCDD	NotFnd		1.0127	-		-	-	-	1.12	-	5396	0.118
1234678-HpCDD	42.55		1.0004	1.0003	-0.3	6.74E+05	1.10	Y	1.08	1.61	6825	0.158
OCDD	46.28		1.0003	1.0003	0	3.26E+06	0.93	Y	1.14	11.5	6534	0.291
2378-TCDF	26.42		1.0009	1.0007	-0.3	9.72E+04	0.89	Y	1.10	0.117	5473	0.0778
12378-PeCDF	NotFnd		1.0006	-		-	-	-	1.17	-	6069	0.0852
23478-PeCDF	NotFnd		1.0005	-		-	-	-	1.14	-	6069	0.0841
123478-HxCDF	NotFnd		1.0005	-		-	-	-	1.34	-	4331	0.0587
123678-HxCDF	NotFnd		1.0005	-		-	-	-	1.23	-	4331	0.0599
234678-HxCDF	NotFnd		1.0005	-		-	-	-	1.26	-	4331	0.0653
123789-HxCDF	NotFnd		1.0005	-		-	-	-	1.23	-	4331	0.0741
1234678-HpCDF	41.26		1.0004	1.0003	-0.2	3.61E+05	0.98	Y	1.42	0.609	6195	0.111
1234789-HpCDF	NotFnd		1.0003	-		-	-	-	1.39	-	6195	0.112
OCDF	46.52		1.0004	1.0003	-0.3	6.13E+05	0.81	Y	1.11	1.56	5850	0.182

Name	Act RT		Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Rec. %
ES 2378-TCDD	27.39		1.0280	1.0279	-0.2	9.55E+07	0.78	Y	1.02	90.3
ES 12378-PeCDD	33.69		1.2640	1.2646	+1.0	8.54E+07	1.57	Y	0.92	90
ES 123478-HxCDD	38.36		0.9909	0.9909	0	7.28E+07	1.22	Y	1.02	81.8
ES 123678-HxCDD	38.49		0.9943	0.9943	0	7.17E+07	1.20	Y	1.01	81.7
ES 123789-HxCDD	38.83		1.0030	1.0032	+0.5	8.22E+07	1.20	Y	1.14	82.8
ES 1234678-HpCDD	42.53		1.0984	1.0987	+0.7	7.70E+07	1.06	Y	1.02	86.6
ES OCDD	46.27		1.1947	1.1951	+0.9	9.93E+07	0.88	Y	0.72	79.2
ES 2378-TCDF	26.40		1.0617	1.0623	+0.9	1.52E+08	0.72	Y	1.01	92.2
ES 12378-PeCDF	31.96		1.2848	1.2859	+1.6	1.33E+08	1.55	Y	0.89	91.6
ES 23478-PeCDF	33.28		1.3381	1.3393	+1.8	1.34E+08	1.56	Y	0.91	90.6
ES 123478-HxCDF	37.18		0.9606	0.9605	-0.2	9.86E+07	0.53	Y	1.53	74.1
ES 123678-HxCDF	37.35		0.9649	0.9649	0	1.15E+08	0.53	Y	1.73	76.5
ES 234678-HxCDF	38.14		0.9851	0.9852	+0.2	1.03E+08	0.53	Y	1.61	73.7
ES 123789-HxCDF	39.25		1.0139	1.0140	+0.2	9.71E+07	0.53	Y	1.39	80.1
ES 1234678-HpCDF	41.25		1.0654	1.0656	+0.5	8.34E+07	0.44	Y	1.20	79.9
ES 1234789-HpCDF	43.14		1.1140	1.1143	+0.7	7.75E+07	0.45	Y	1.07	83.2
ES OCDF	46.50		1.2010	1.2013	+0.7	1.42E+08	0.92	Y	1.04	78

Lab ID: A5975_11402_DF_010RJ

Acq'd: 14 Oct 2013 06:12 MDC

Wt/Vol: 10.01 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: JW-SC402-C-130928

UTP: 15-Oct-2013 09:49 MDC

J-level: 0.5 pg/g Split: 1

Checkcode: 308-442-QYD

Datafile: 131013P2-10

Report: 15 Oct 2013 09:49 MC

StdS (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37CI)

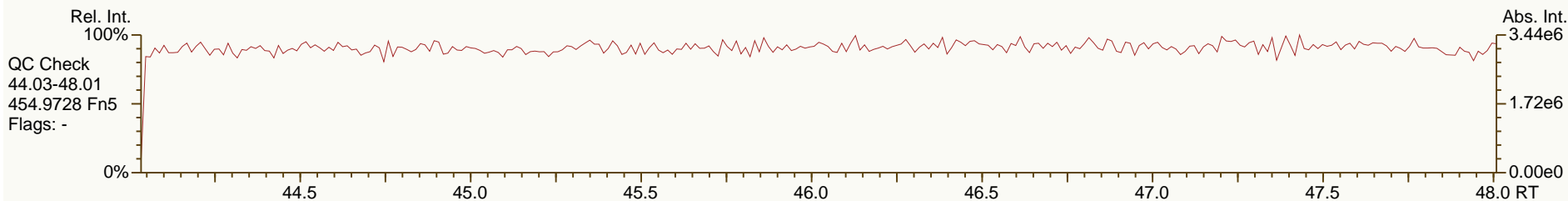
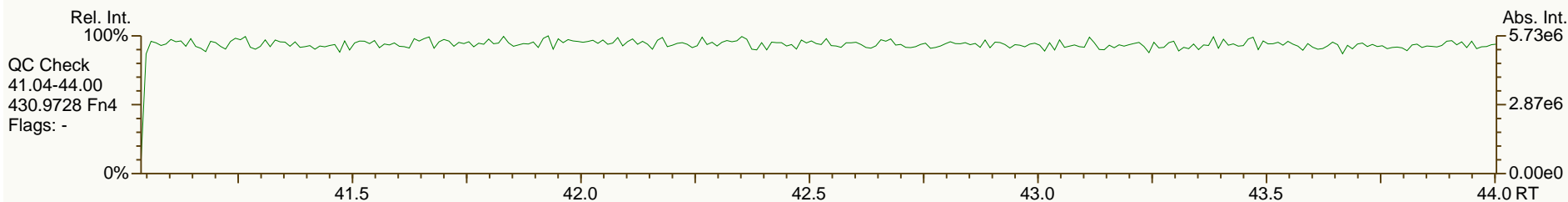
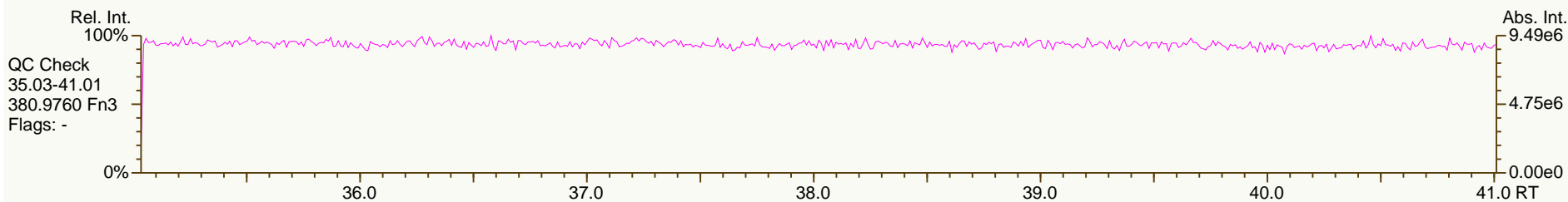
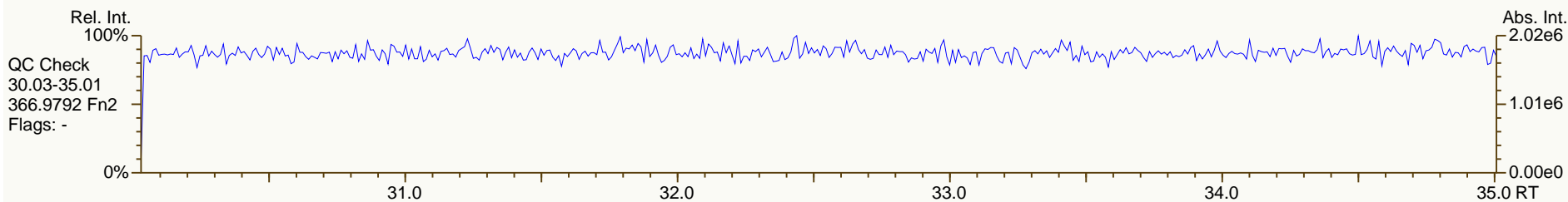
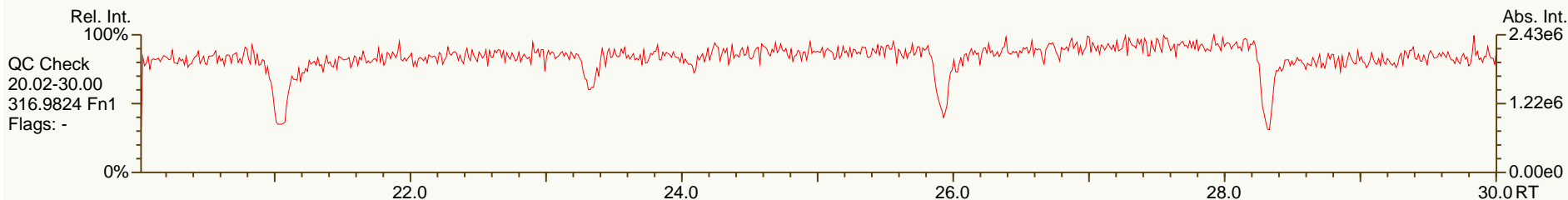
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JS 1234-TCDD	26.64		-	-	-	1.03E+08	0.80	Y	-	-
JS 1234-TCDF	24.85		-	-	-	1.63E+08	0.74	Y	-	-
JS 123467-HxCDD	38.71		-	-	-	4.35E+07	1.20	Y	-	-
CS 37C1-2378-TCDD	27.41		1.0289	1.0289	0	4.62E+07	n/a	-	1.13	98.8
CS 12347-PeCDD	33.10		1.2418	1.2424	+1.0	8.71E+07	1.62	Y	0.88	96.3
CS 12346-PeCDF	31.33		1.2599	1.2608	+1.3	1.37E+08	1.59	Y	0.90	93.1
CS 123469-HxCDF	37.72		0.9743	0.9743	0	1.09E+08	0.53	Y	1.40	89.8
CS 1234689-HpCDF	41.81		1.0798	1.0801	+0.7	8.39E+07	0.45	Y	1.09	88.3
SS 37C1-2378-TCDD	27.41		1.0289	1.0289	0	4.62E+07	n/a	-	1.11	109
SS 12347-PeCDD	33.10		1.2418	1.2424	+1.0	8.71E+07	1.62	Y	0.96	107
SS 12346-PeCDF	31.33		1.2599	1.2608	+1.3	1.37E+08	1.59	Y	1.02	101
SS 123469-HxCDF	37.72		0.9743	0.9743	0	1.09E+08	0.53	Y	0.81	117
SS 1234689-HpCDF	41.81		1.0798	1.0801	+0.7	8.39E+07	0.45	Y	0.91	110
AS 1368-TCDD	23.26		0.8735	0.8730	-0.8	1.18E+08	0.79	Y	1.01	114
AS 1368-TCDF	21.08		0.8478	0.8480	+0.3	1.56E+08	0.75	Y	1.22	78.4
FS 1278-TCDD	NotFnd		1.0139							
FS 12478-PeCDD	NotFnd		0.9570							
FS 123468-HxCDD	NotFnd		0.9674							
FS 1234679-HpCDD	NotFnd		0.9788							
TS 1378-TCDD	NotFnd		0.9313							

Totals	Conc	EMPC
Total TCDD	0.421	0.421
Total PeCDD	0	0
Total HxCDD	0.323	0.64
Total HpCDD	3.57	3.57
Total Tetra-Octa Dioxins	15.8	16.1
Total TCDF	0.484	0.763
Total PeCDF	0.407	0.619
Total HxCDF	0.406	0.659
Total HpCDF	1.6	1.6
Total Tetra-Octa Furans	4.46	5.21
Total Tetra-Octa Dioxins & Furans	20.3	21.3

SGS-AP ID: A5975_11402_DF_010RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-C-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 23

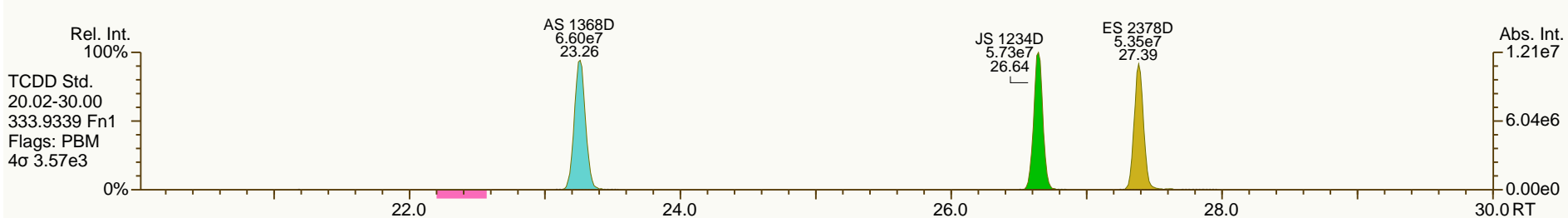
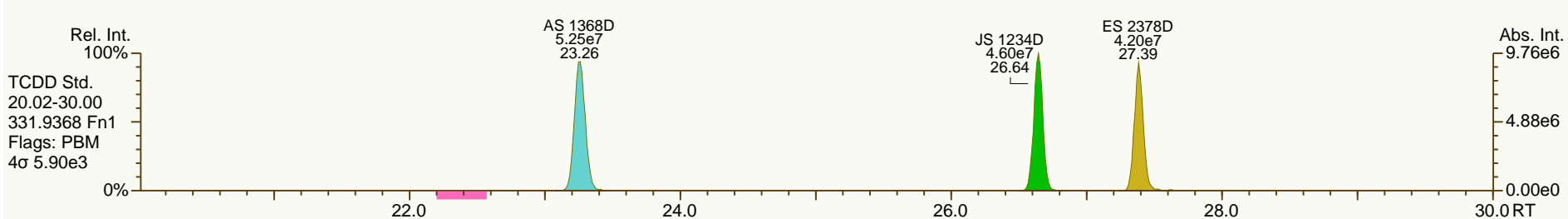
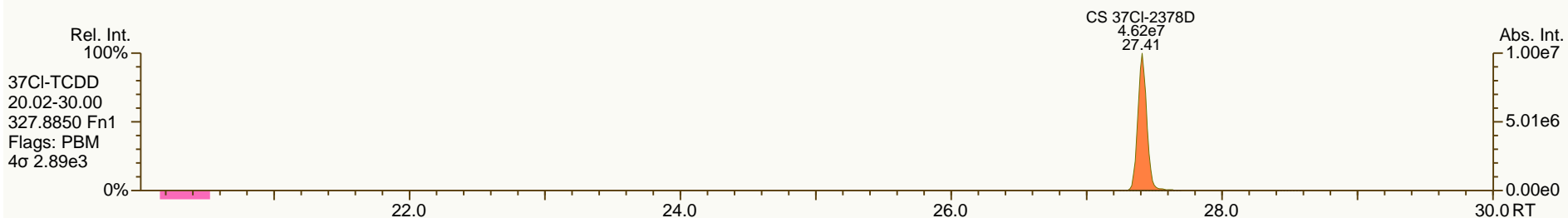
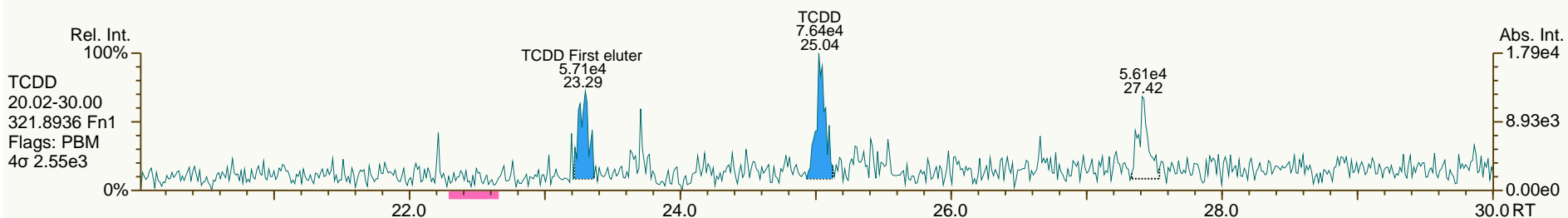
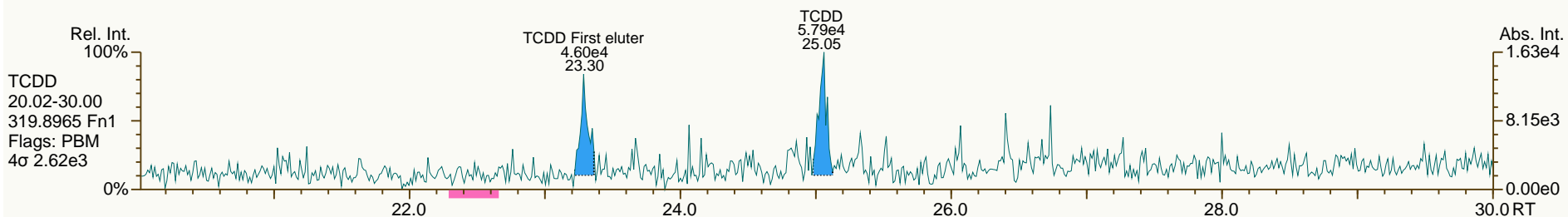
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SGS-AP ID: A5975_11402_DF_010RJ
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Sample ID: JW-SC402-C-130928
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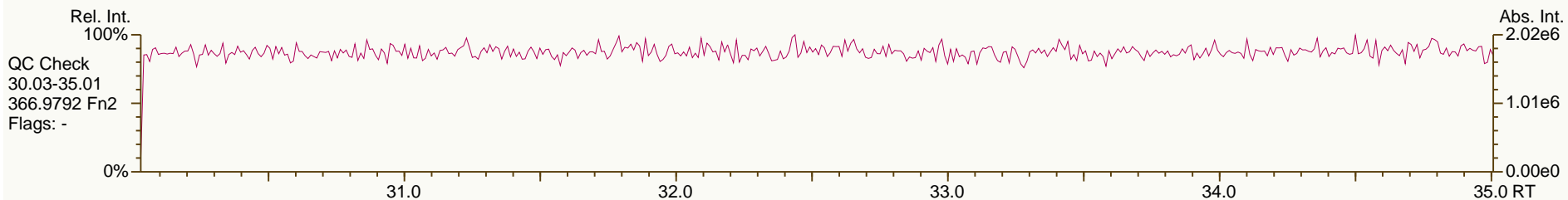
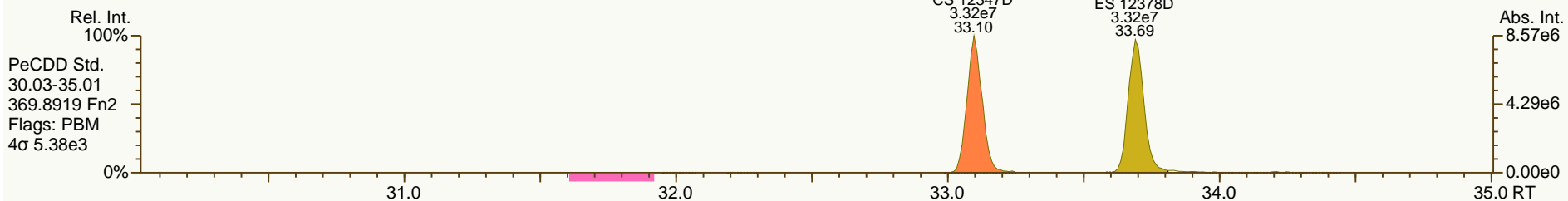
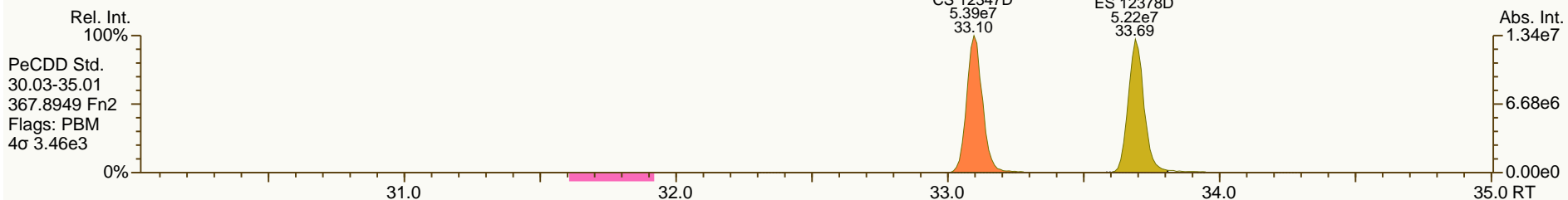
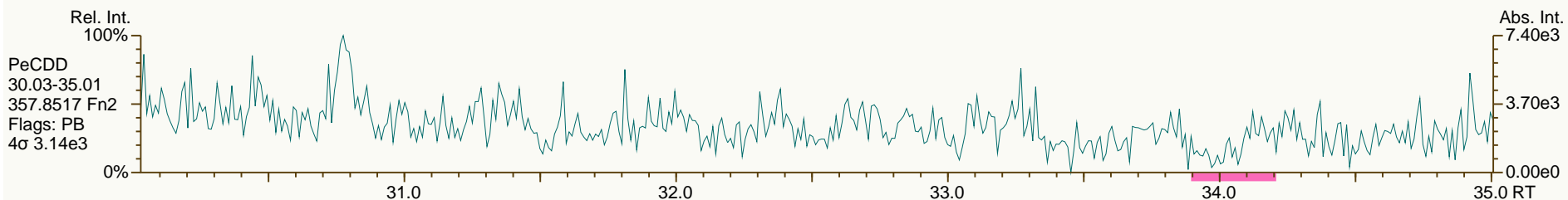
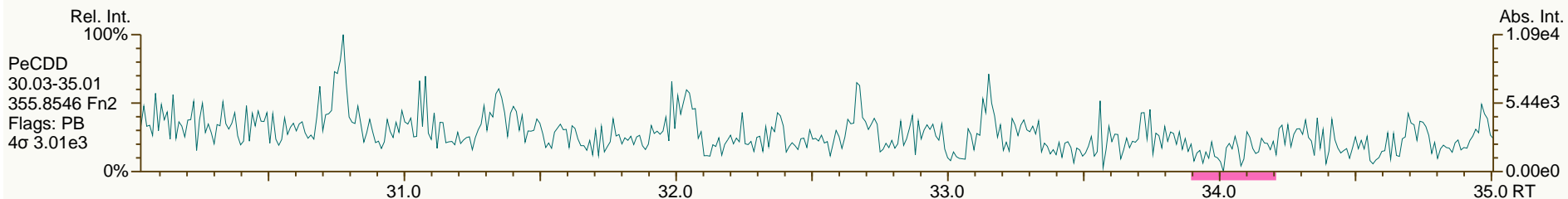
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SGS-AP ID: A5975_11402_DF_010RJ
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Sample ID: JW-SC402-C-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 23

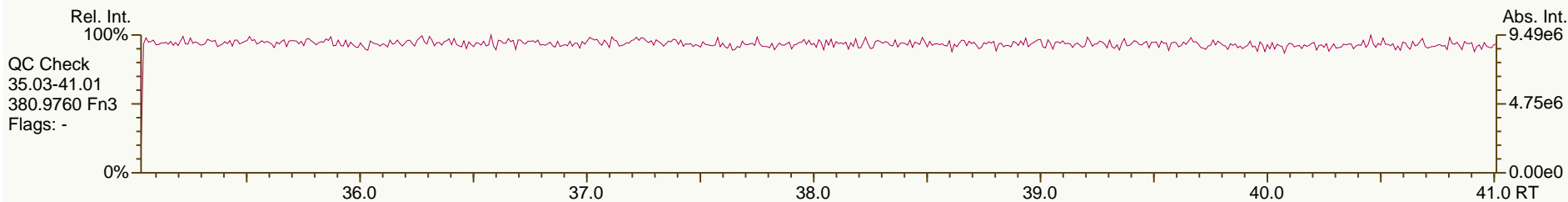
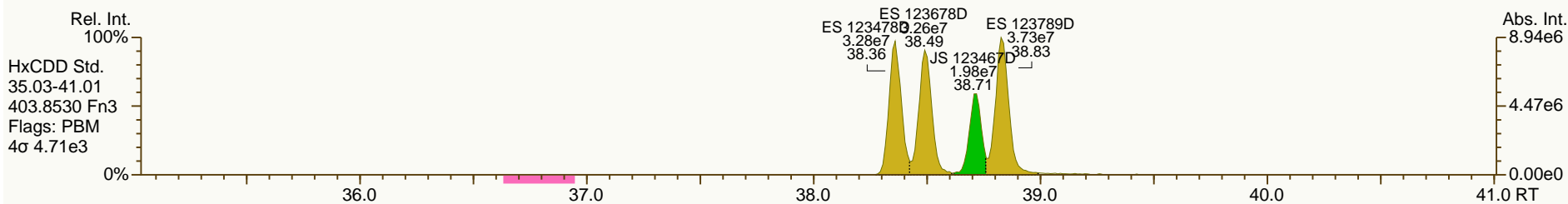
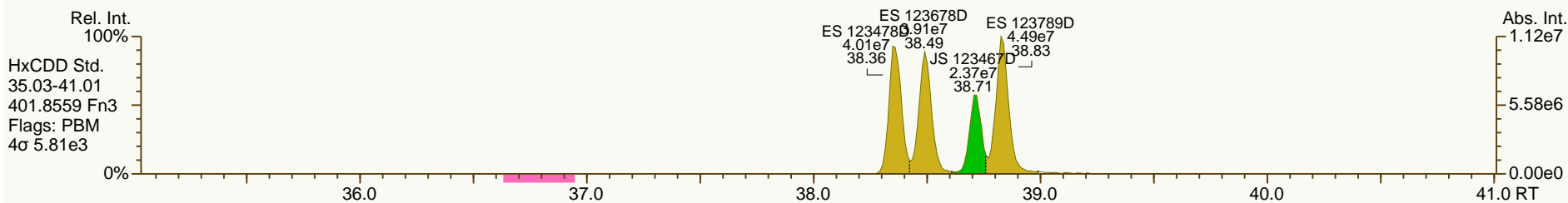
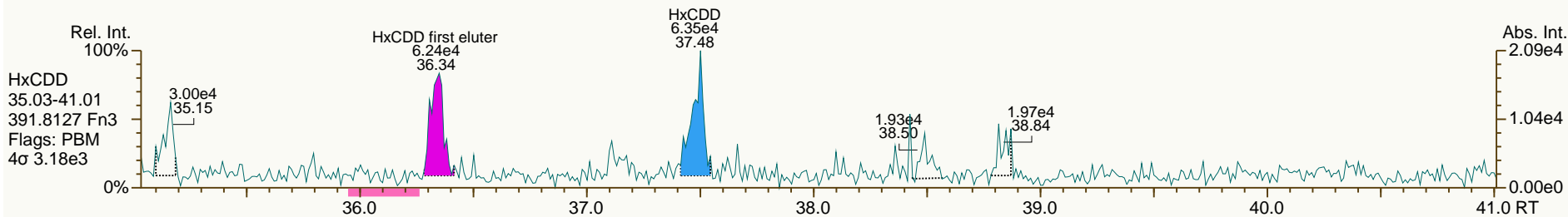
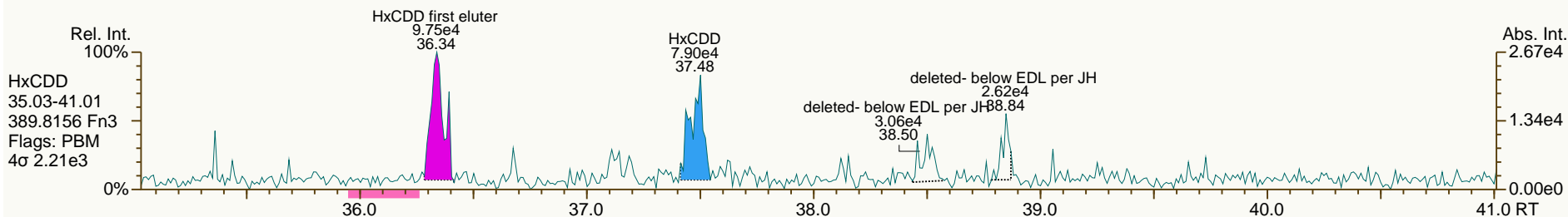
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SGS-AP ID: A5975_11402_DF_010RJ
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 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 23

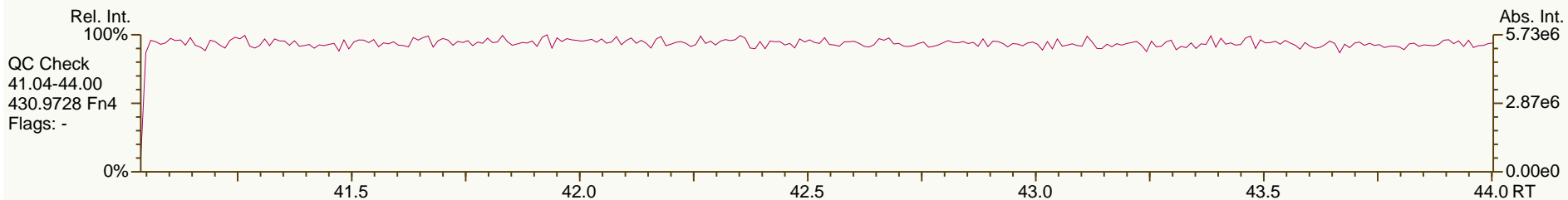
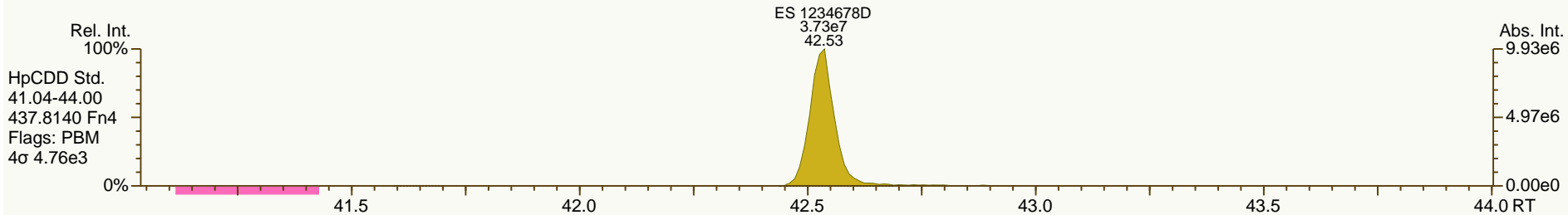
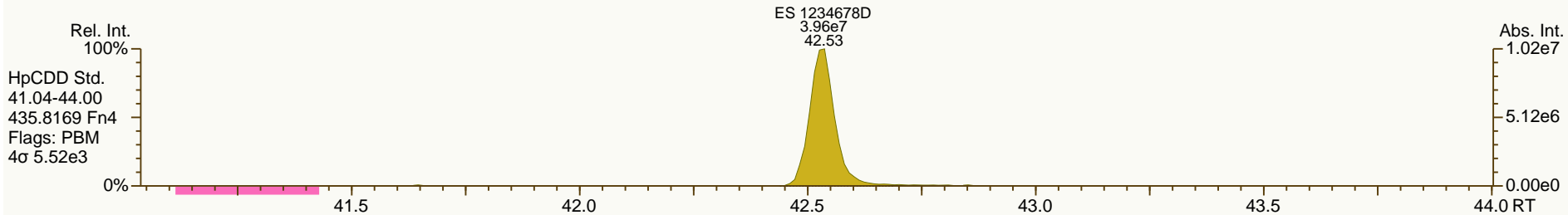
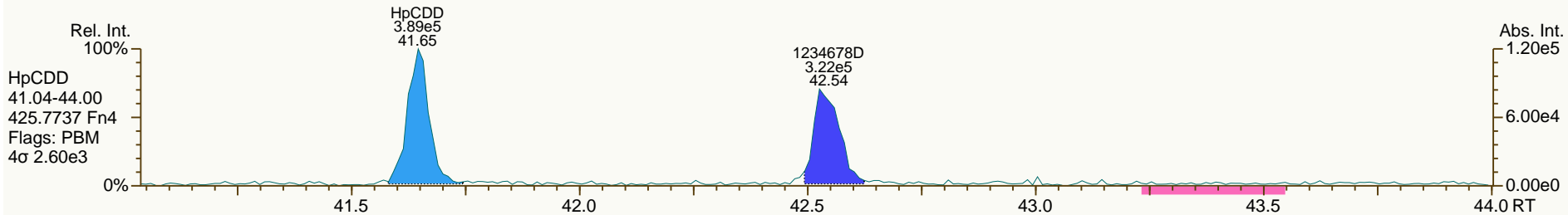
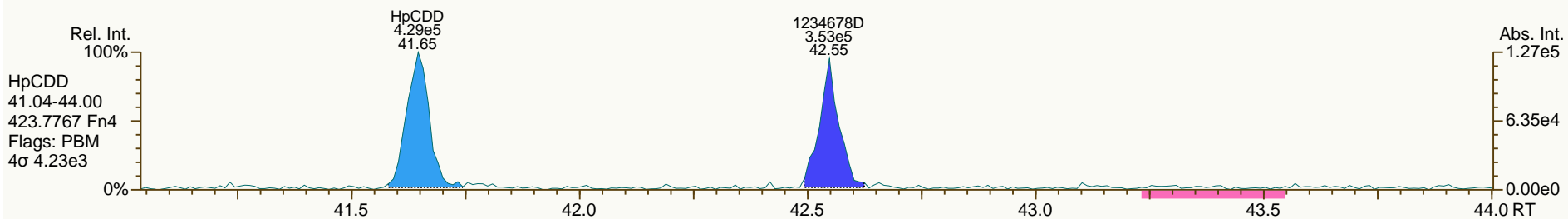
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SGS-AP ID: A5975_11402_DF_010RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-C-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 23

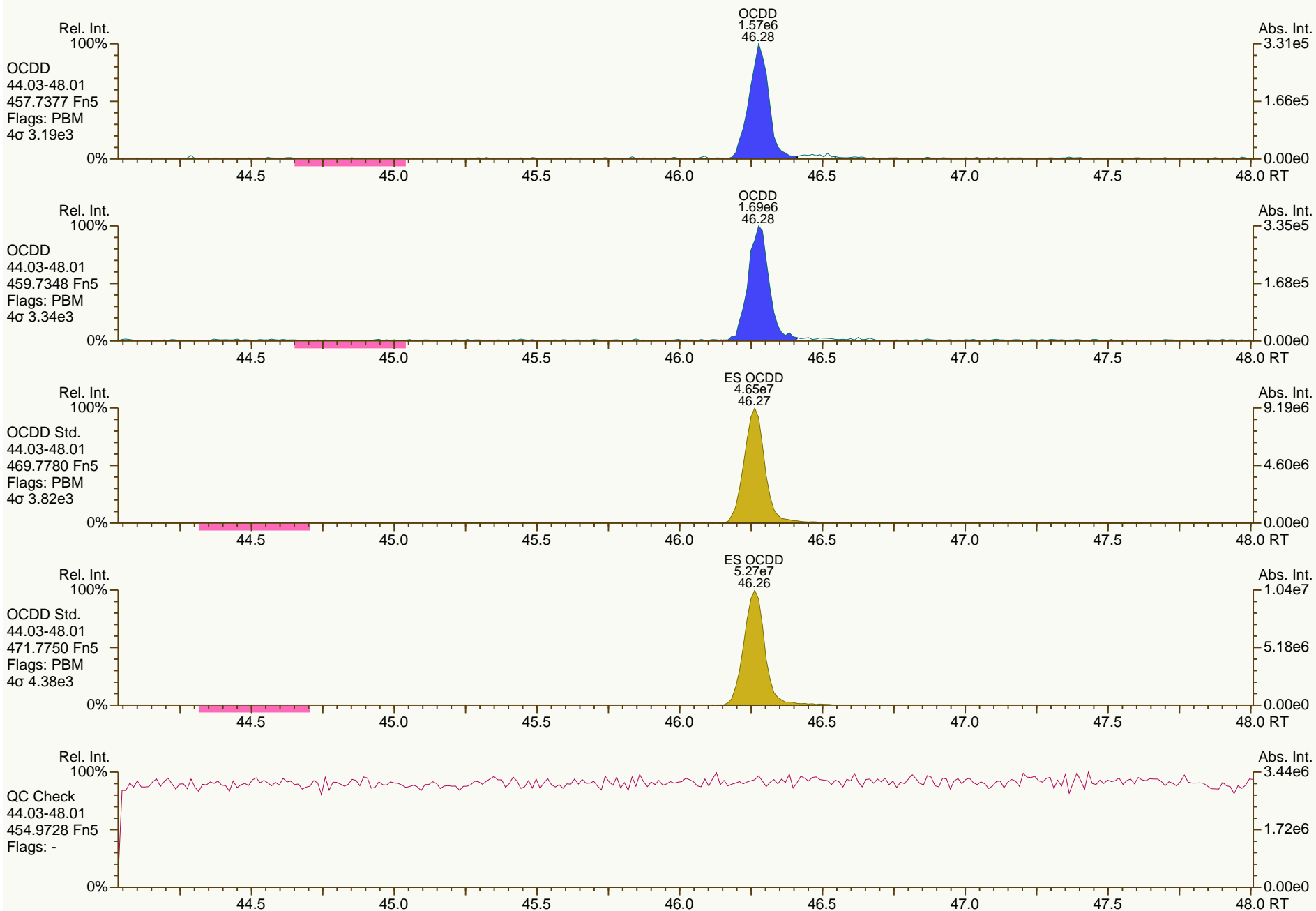
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SGS-AP ID: A5975_11402_DF_010RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-C-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 23

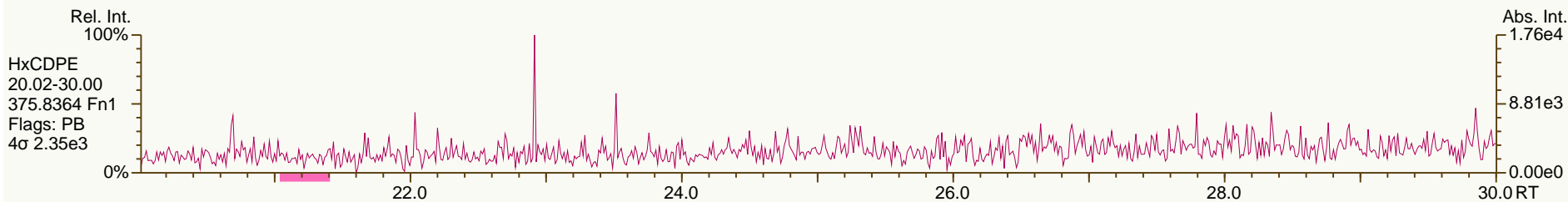
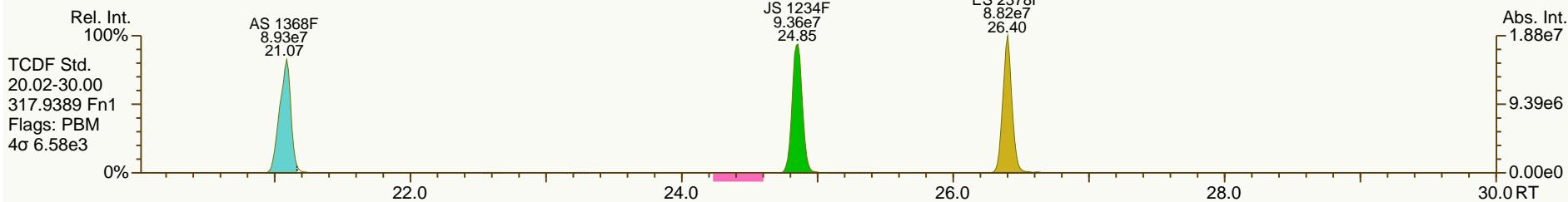
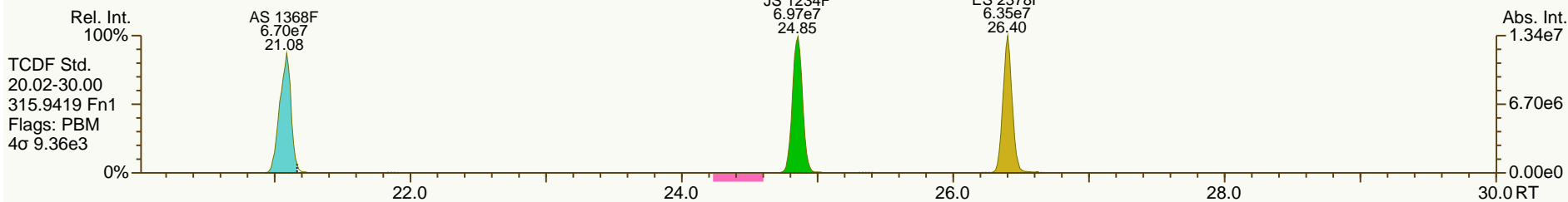
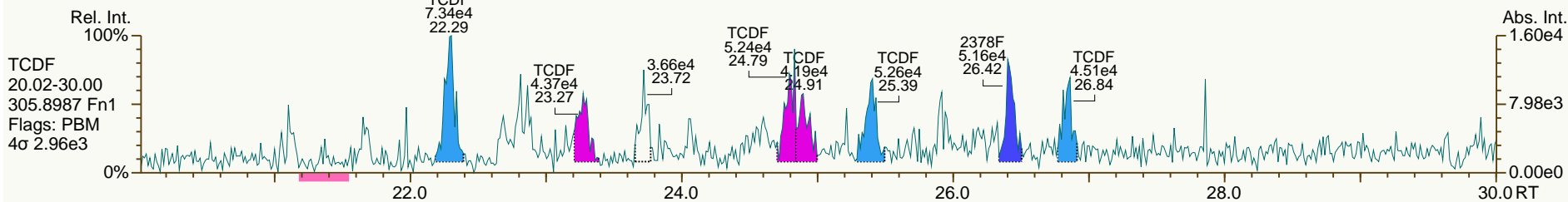
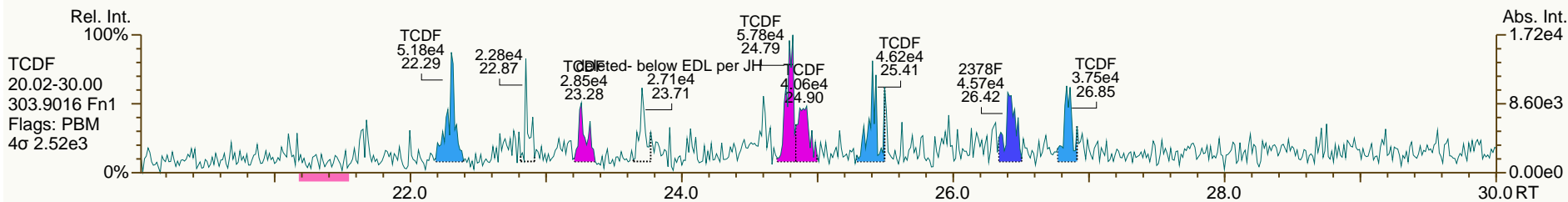
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SGS-AP ID: A5975_11402_DF_010RJ
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Sample ID: JW-SC402-C-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 23

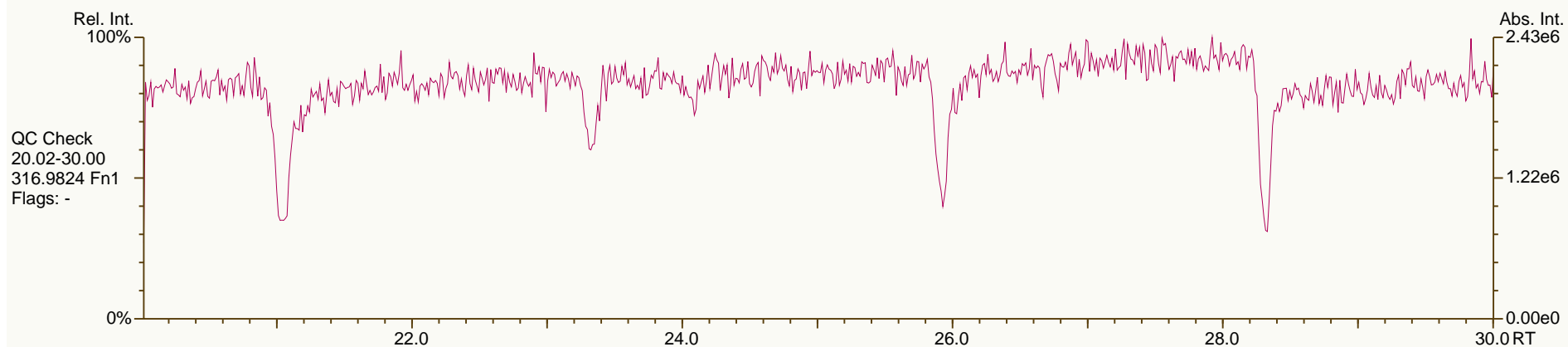
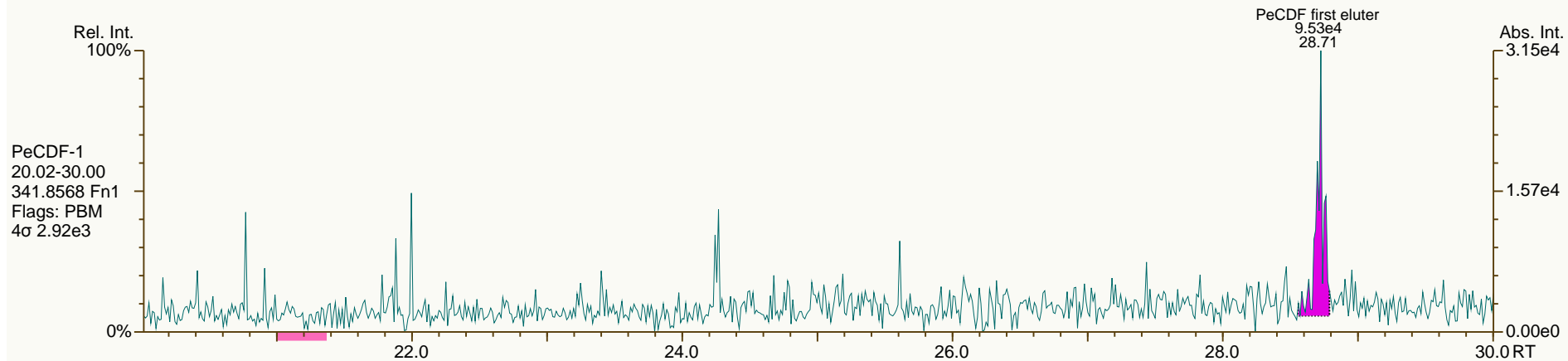
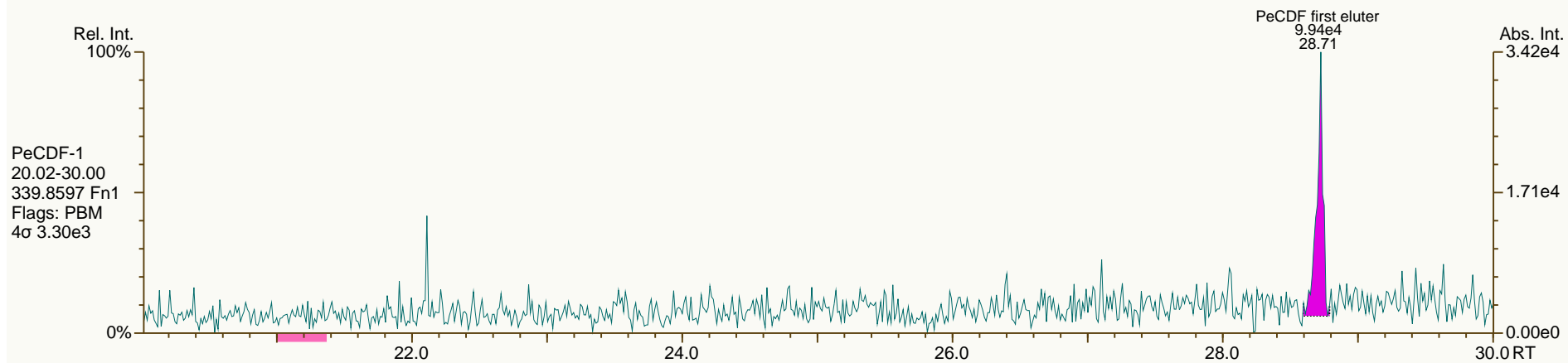
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SGS-AP ID: A5975_11402_DF_010RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-C-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 23

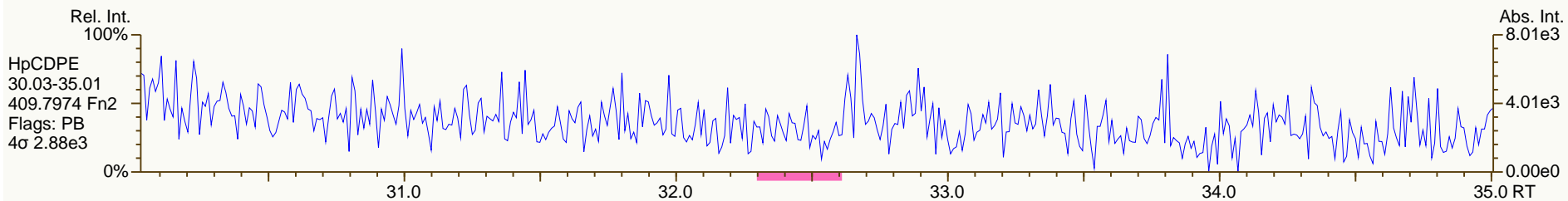
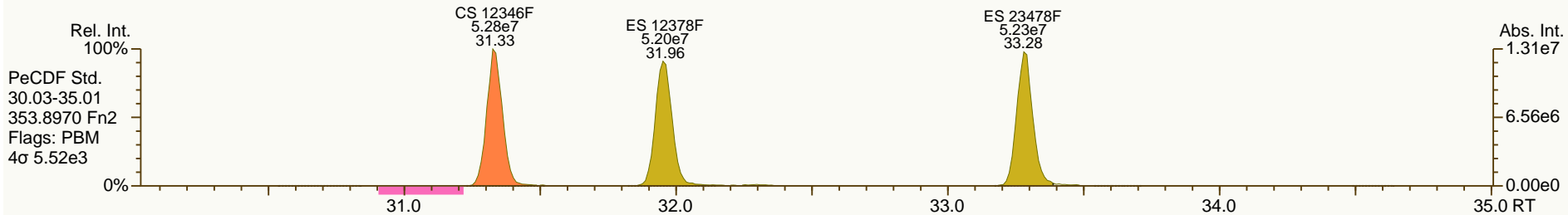
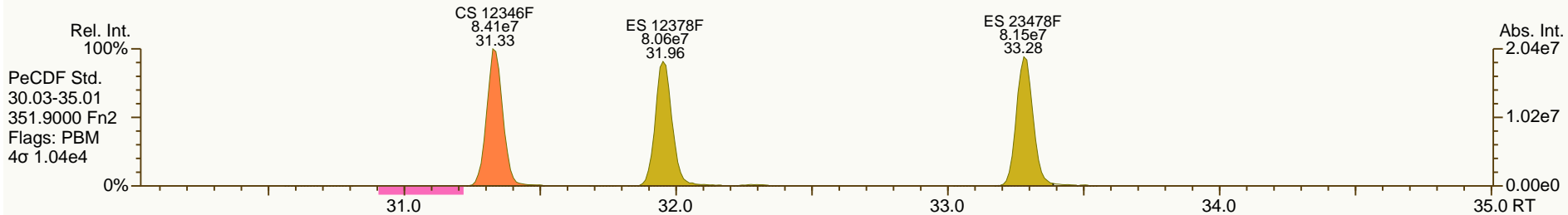
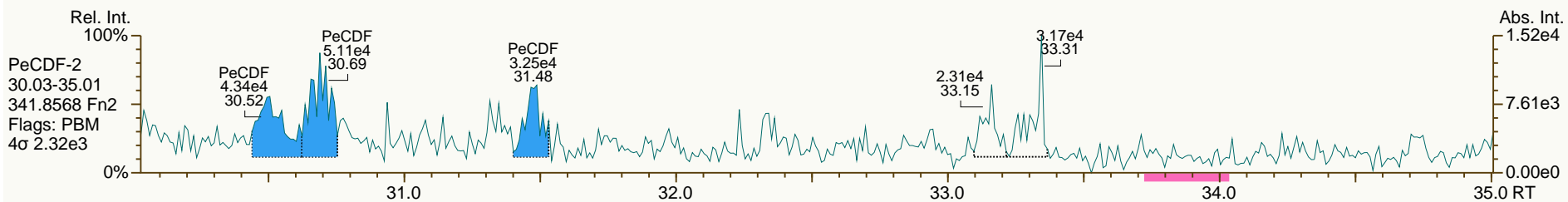
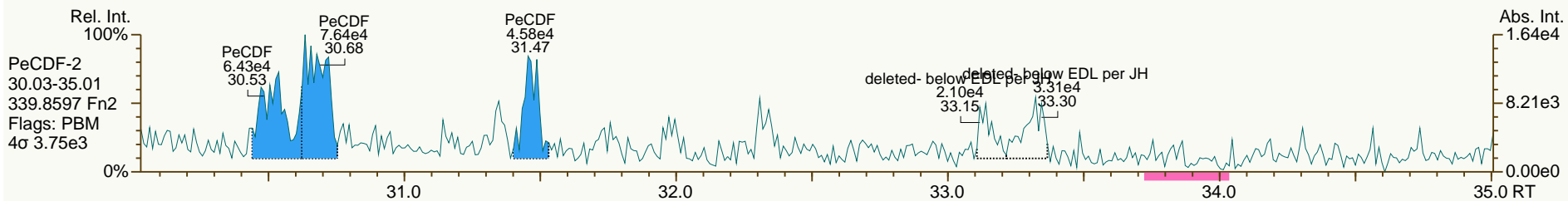
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SGS-AP ID: A5975_11402_DF_010RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-C-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 23

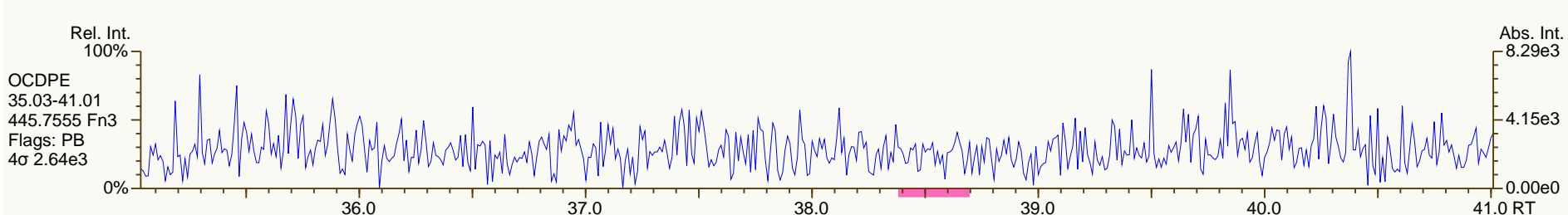
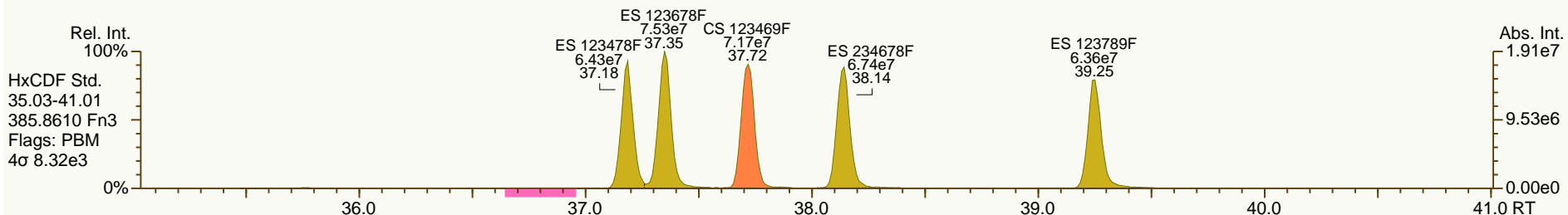
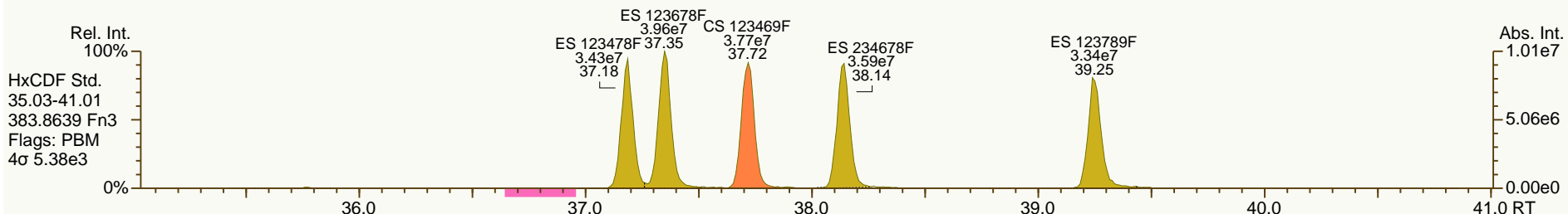
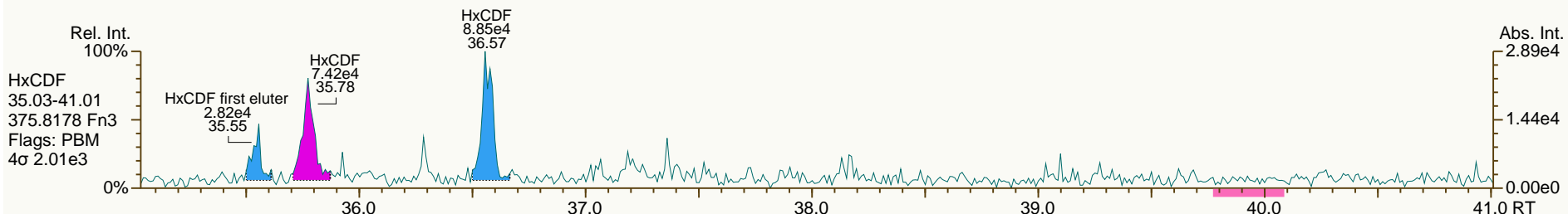
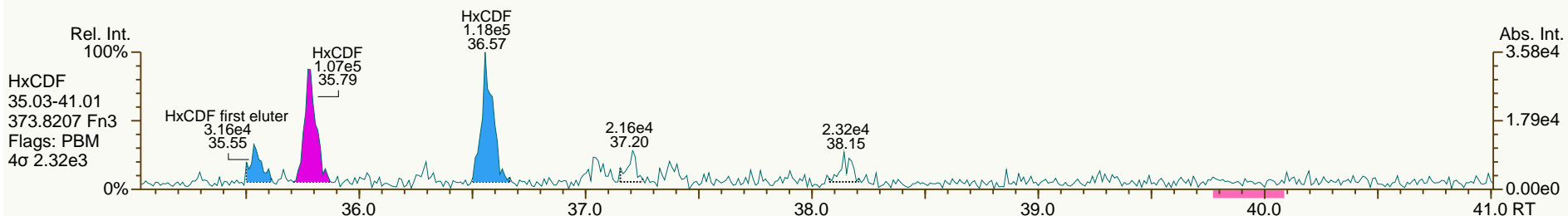
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 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-C-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 23

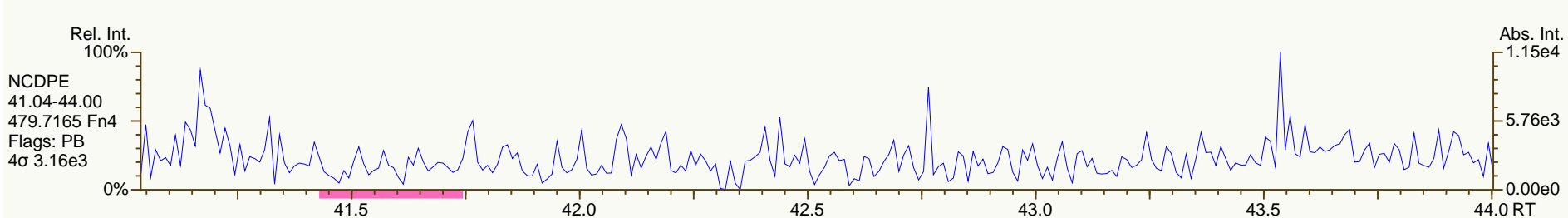
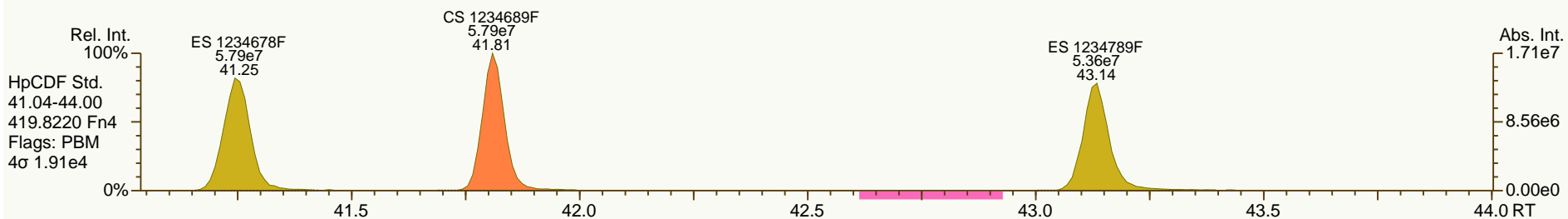
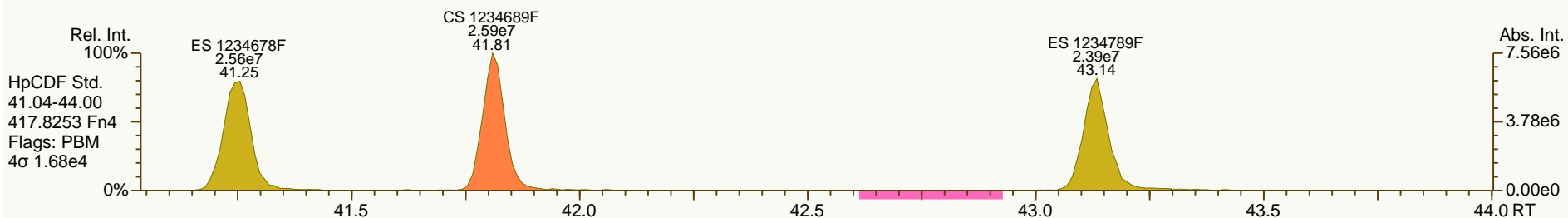
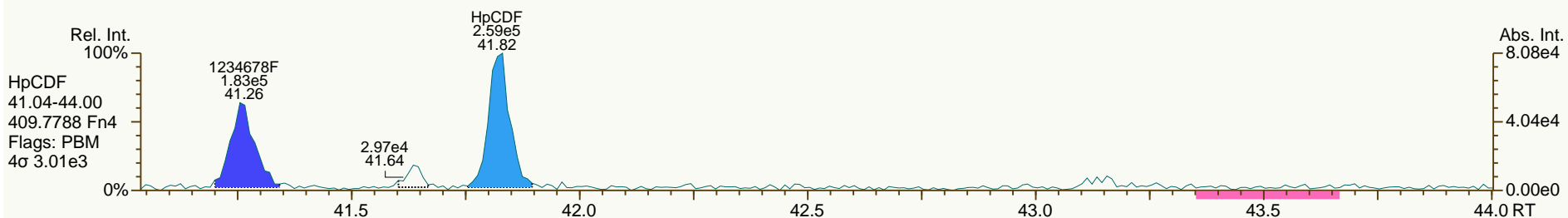
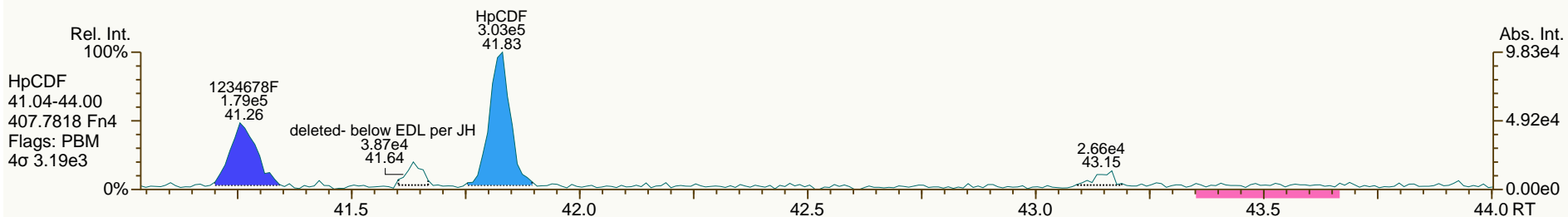
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SGS-AP ID: A5975_11402_DF_010RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-C-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 23

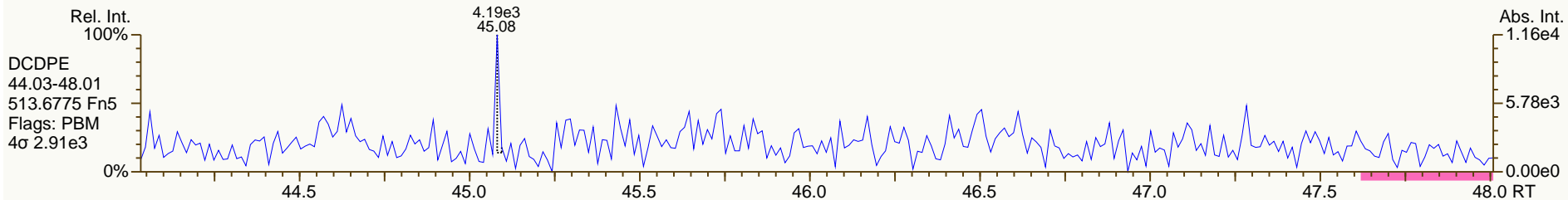
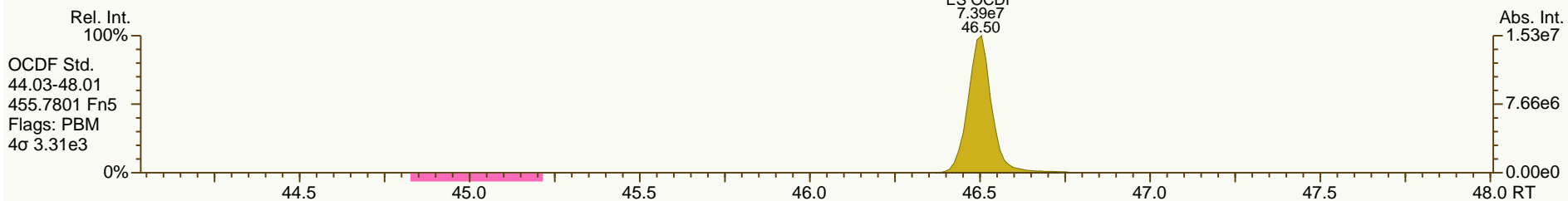
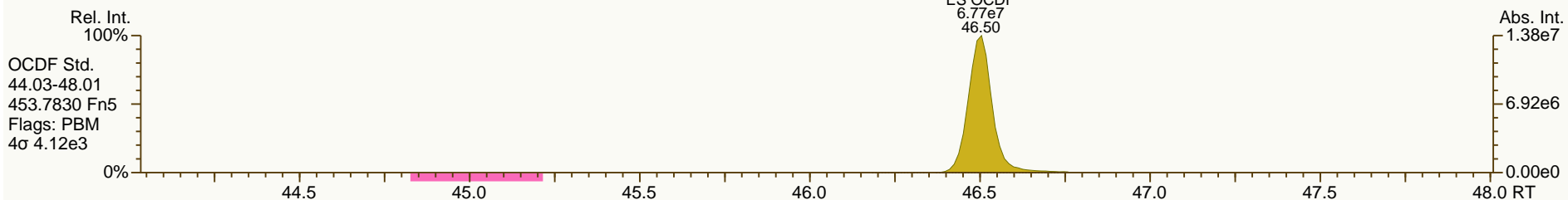
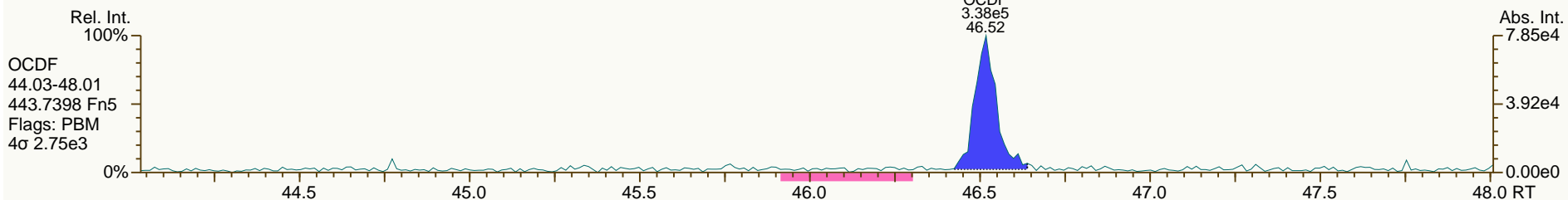
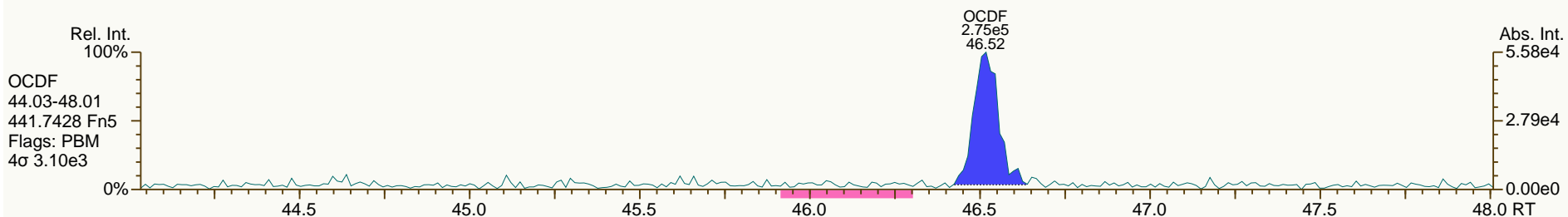
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SGS-AP ID: A5975_11402_DF_010RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-C-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 23

Acq: 14-OCT-2013 06:12:46
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Lab ID: A5975_11402_DF_011RJ

Acq'd: 14 Oct 2013 07:05 MDC

Wt/Vol: 10.07 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: JW-SC402-D-130928

UTP: 15-Oct-2013 09:50 MDC

J-level: 0.497 pg/g

Split: 1

Checkcode: 915-861-FHL

Datafile: 131013P2-11

Report: 15 Oct 2013 09:51 MC

StdS (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37CI)

Name	Act RT	QC	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Conc.	Noise	DL
2378-TCDD	NotFnd		1.0009	-		-	-	-	1.18	-	5504	0.122
12378-PeCDD	NotFnd		1.0007	-		-	-	-	1.07	-	5002	0.126
123478-HxCDD	NotFnd		1.0004	-		-	-	-	1.19	-	5315	0.135
123678-HxCDD	NotFnd		1.0039	-		-	-	-	1.19	-	5315	0.136
123789-HxCDD	NotFnd		1.0127	-		-	-	-	1.12	-	5315	0.129
1234678-HpCDD	NotFnd		1.0004	-		-	-	-	1.08	-	7417	0.194
OCDD	46.30		1.0003	1.0003	0	4.28E+05	0.78	Y	1.14	1.64	6907	0.317
2378-TCDF	NotFnd		1.0009	-		-	-	-	1.10	-	5196	0.0798
12378-PeCDF	NotFnd		1.0006	-		-	-	-	1.17	-	5265	0.0774
23478-PeCDF	NotFnd		1.0005	-		-	-	-	1.14	-	5265	0.0749
123478-HxCDF	NotFnd		1.0005	-		-	-	-	1.34	-	5578	0.0937
123678-HxCDF	NotFnd		1.0005	-		-	-	-	1.23	-	5578	0.0907
234678-HxCDF	NotFnd		1.0005	-		-	-	-	1.26	-	5578	0.0888
123789-HxCDF	NotFnd		1.0005	-		-	-	-	1.23	-	5578	0.106
1234678-HpCDF	NotFnd		1.0004	-		-	-	-	1.42	-	6453	0.126
1234789-HpCDF	NotFnd		1.0003	-		-	-	-	1.39	-	6453	0.13
OCDF	NotFnd		1.0004	-		-	-	-	1.11	-	5112	0.174

Name	Act RT	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Rec. %
ES 2378-TCDD	27.41	1.0280	1.0281	+0.2	9.09E+07	0.79	Y	1.02	86.9
ES 12378-PeCDD	33.72	1.2640	1.2647	+1.1	7.80E+07	1.61	Y	0.92	83.1
ES 123478-HxCDD	38.38	0.9909	0.9909	0	6.28E+07	1.20	Y	1.02	74.6
ES 123678-HxCDD	38.52	0.9943	0.9944	+0.2	6.40E+07	1.20	Y	1.01	77.2
ES 123789-HxCDD	38.86	1.0030	1.0032	+0.5	7.48E+07	1.18	Y	1.14	79.7
ES 1234678-HpCDD	42.56	1.0984	1.0987	+0.7	6.69E+07	1.05	Y	1.02	79.5
ES OCDD	46.29	1.1947	1.1950	+0.7	9.09E+07	0.90	Y	0.72	76.7
ES 2378-TCDF	26.42	1.0617	1.0615	-0.3	1.43E+08	0.72	Y	1.01	84.8
ES 12378-PeCDF	31.98	1.2848	1.2849	+0.1	1.24E+08	1.56	Y	0.89	84
ES 23478-PeCDF	33.31	1.3381	1.3383	+0.3	1.23E+08	1.54	Y	0.91	81.5
ES 123478-HxCDF	37.21	0.9606	0.9606	0	8.72E+07	0.54	Y	1.53	69.3
ES 123678-HxCDF	37.37	0.9649	0.9649	0	1.03E+08	0.53	Y	1.73	72.3
ES 234678-HxCDF	38.16	0.9851	0.9852	+0.2	9.51E+07	0.54	Y	1.61	71.8
ES 123789-HxCDF	39.28	1.0139	1.0140	+0.2	8.71E+07	0.53	Y	1.39	76.1
ES 1234678-HpCDF	41.27	1.0654	1.0655	+0.2	7.45E+07	0.45	Y	1.20	75.5
ES 1234789-HpCDF	43.16	1.1140	1.1142	+0.5	6.59E+07	0.45	Y	1.07	74.9
ES OCDF	46.53	1.2010	1.2012	+0.5	1.27E+08	0.91	Y	1.04	74.3

Lab ID: A5975_11402_DF_011RJ

Acq'd: 14 Oct 2013 07:05 MDC

Wt/Vol: 10.07 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: JW-SC402-D-130928

UTP: 15-Oct-2013 09:50 MDC

J-level: 0.497 pg/g

Split: 1

Checkcode: 915-861-FHL

Datafile: 131013P2-11

Report: 15 Oct 2013 09:51 MC

Stds (pg): JS: 2000 ES: 2000 CS/SS: 2000, 800 (37CI)

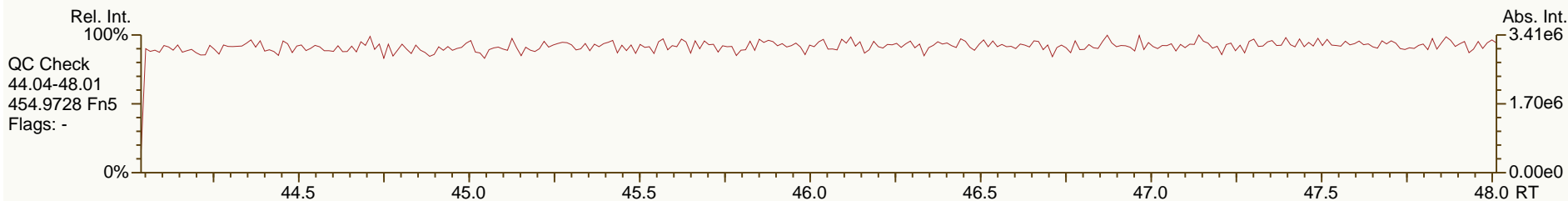
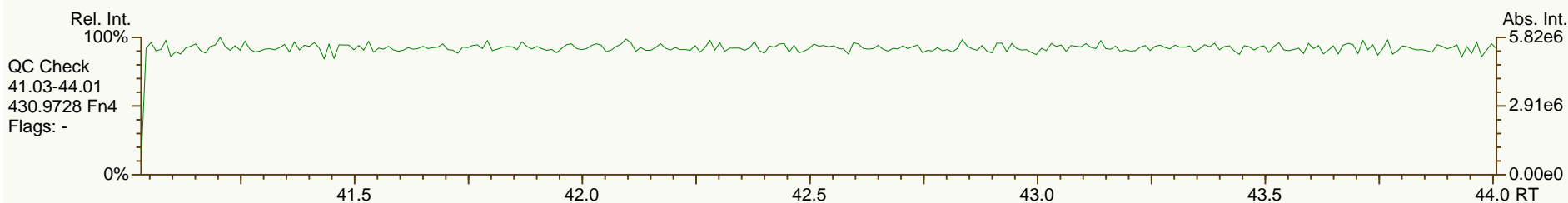
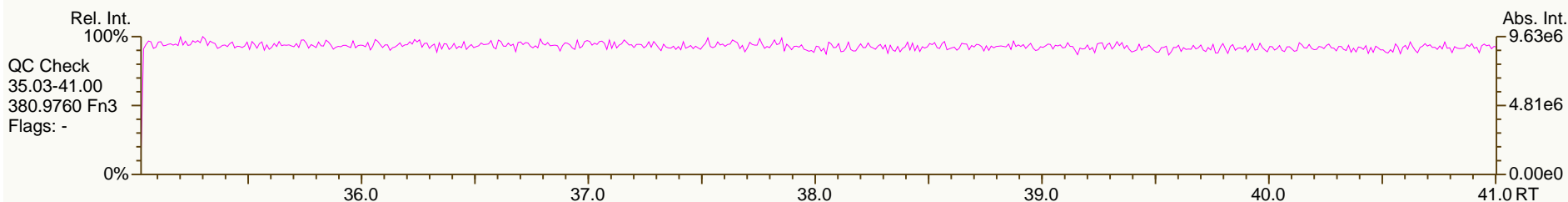
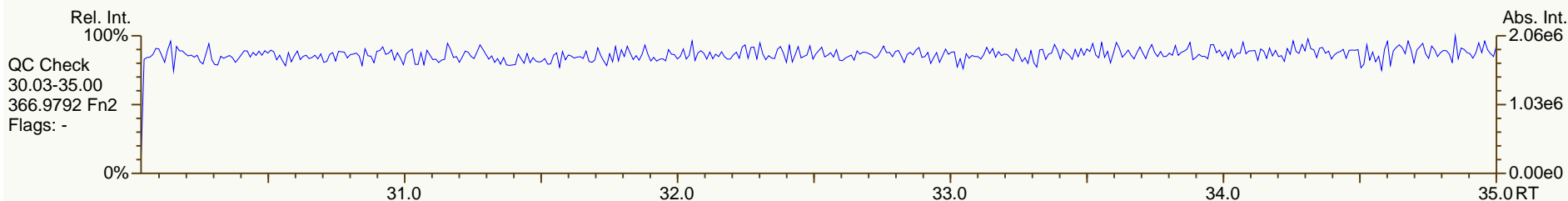
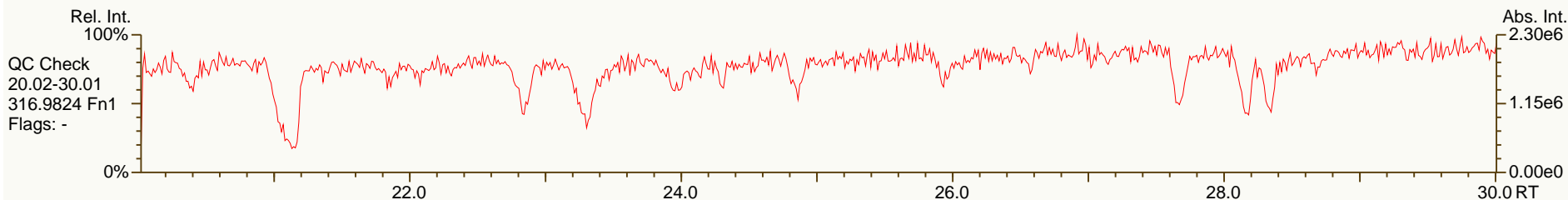
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JS 1234-TCDD	26.66		-	-	-	1.02E+08	0.79	Y	-	-
JS 1234-TCDF	24.89		-	-	-	1.67E+08	0.72	Y	-	-
JS 123467-HxCDD	38.73		-	-	-	4.11E+07	1.20	Y	-	-
CS 37C1-2378-TCDD	27.44		1.0289	1.0291	+0.3	4.33E+07	n/a	-	1.13	93.7
CS 12347-PeCDD	33.12		1.2418	1.2423	+0.8	8.00E+07	1.61	Y	0.88	89.5
CS 12346-PeCDF	31.36		1.2599	1.2599	0	1.27E+08	1.53	Y	0.90	84.3
CS 123469-HxCDF	37.74		0.9743	0.9744	+0.2	9.98E+07	0.52	Y	1.40	86.7
CS 1234689-HpCDF	41.84		1.0798	1.0801	+0.7	7.41E+07	0.44	Y	1.09	82.5
SS 37C1-2378-TCDD	27.44		1.0289	1.0291	+0.3	4.33E+07	n/a	-	1.11	107
SS 12347-PeCDD	33.12		1.2418	1.2423	+0.8	8.00E+07	1.61	Y	0.96	107
SS 12346-PeCDF	31.36		1.2599	1.2599	0	1.27E+08	1.53	Y	1.02	99.8
SS 123469-HxCDF	37.74		0.9743	0.9744	+0.2	9.98E+07	0.52	Y	0.81	119
SS 1234689-HpCDF	41.84		1.0798	1.0801	+0.7	7.41E+07	0.44	Y	0.91	109
AS 1368-TCDD	23.33		0.8735	0.8751	+2.6	9.25E+07	0.79	Y	1.01	90
AS 1368-TCDF	21.09		0.8478	0.8475	-0.4	1.03E+08	0.72	Y	1.22	50.4
FS 1278-TCDD	NotFnd		1.0139							
FS 12478-PeCDD	NotFnd		0.9570							
FS 123468-HxCDD	NotFnd		0.9674							
FS 1234679-HpCDD	NotFnd		0.9788							
TS 1378-TCDD	NotFnd		0.9313							

Totals	Conc	EMPC
Total TCDD	0.313	0.313
Total PeCDD	0	0
Total HxCDD	0.183	0.183
Total HpCDD	0.351	0.351
Total Tetra-Octa Dioxins	2.49	2.49
Total TCDF	0	0
Total PeCDF	0	0
Total HxCDF	0	0
Total HpCDF	0	0
Total Tetra-Octa Furans	0	0
Total Tetra-Octa Dioxins & Furans	2.49	2.49

SGS-AP ID: A5975_11402_DF_011RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-D-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 24

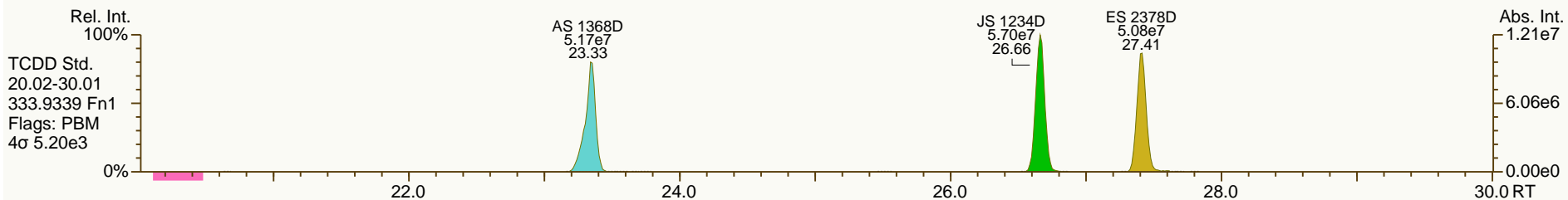
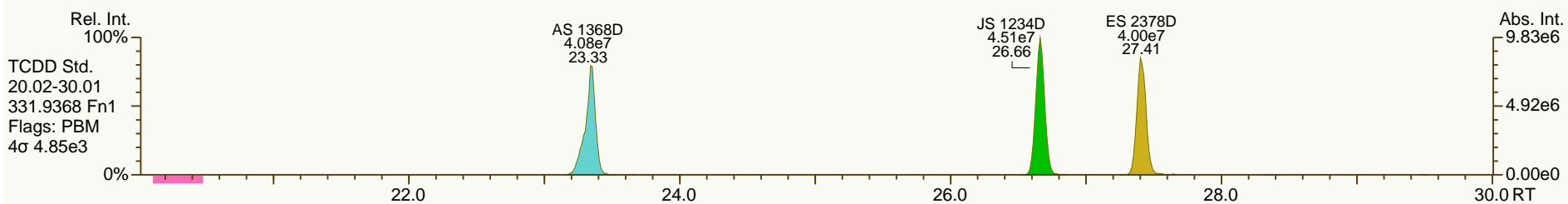
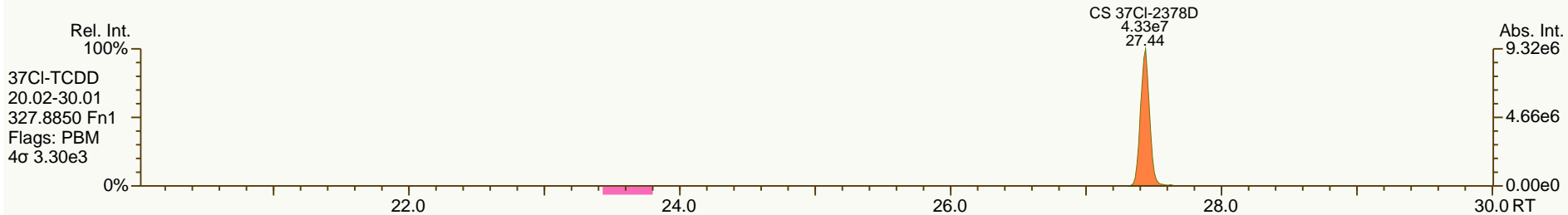
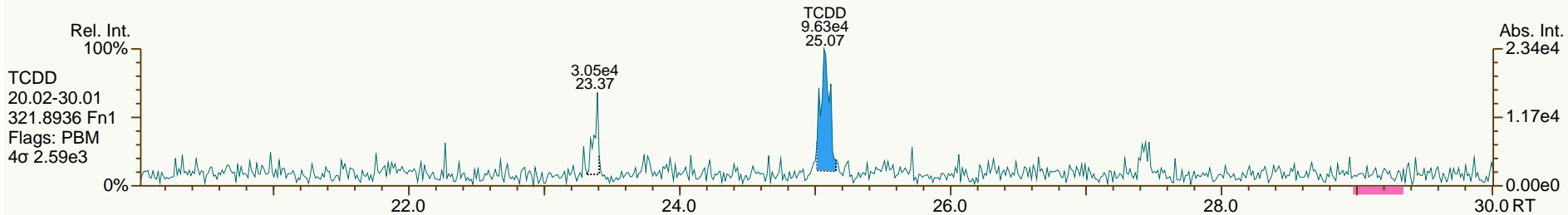
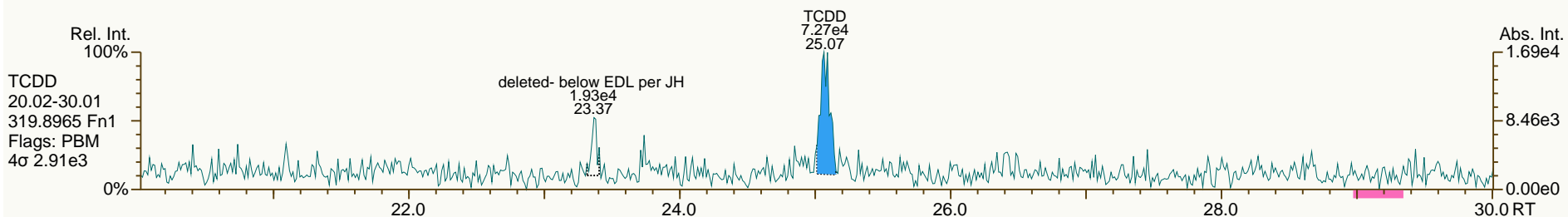
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SGS-AP ID: A5975_11402_DF_011RJ
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Sample ID: JW-SC402-D-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 24

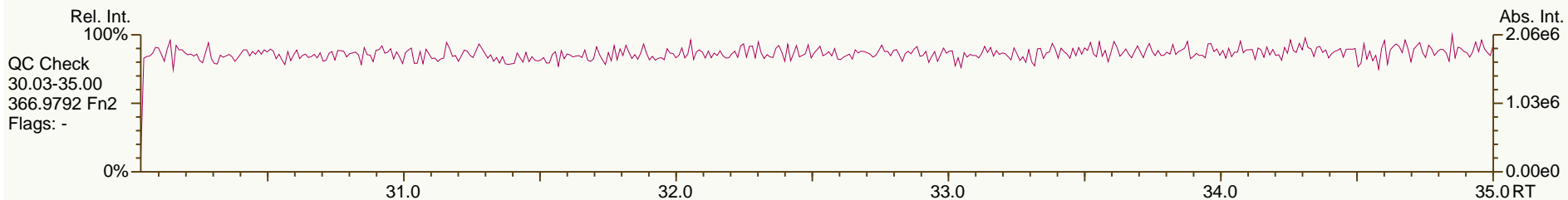
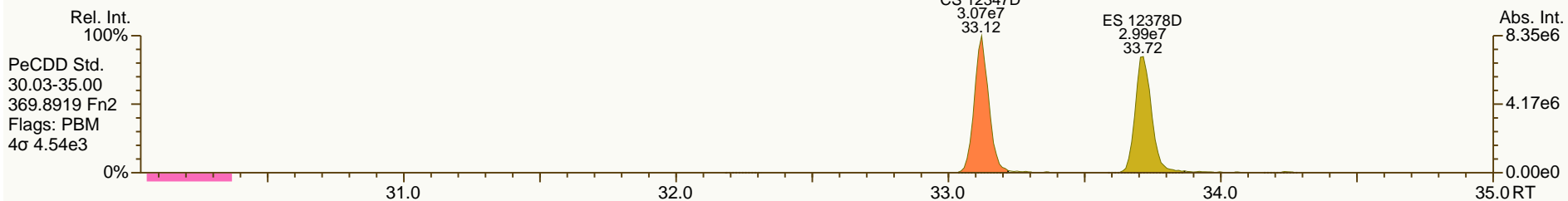
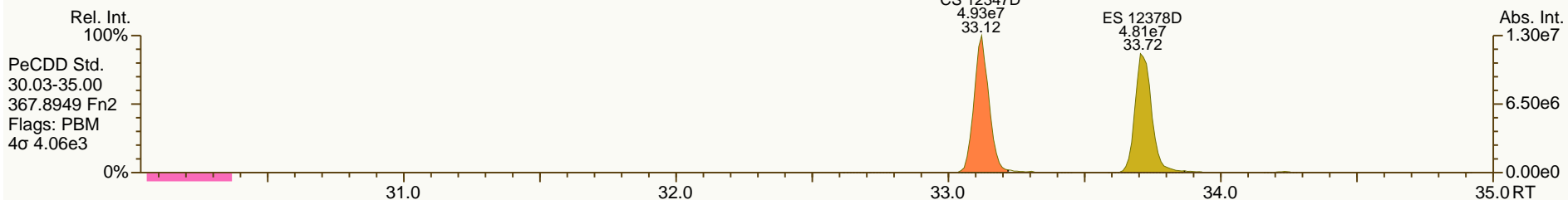
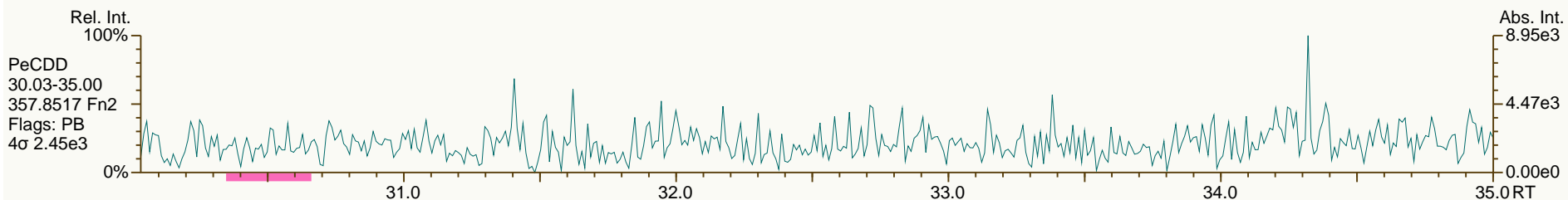
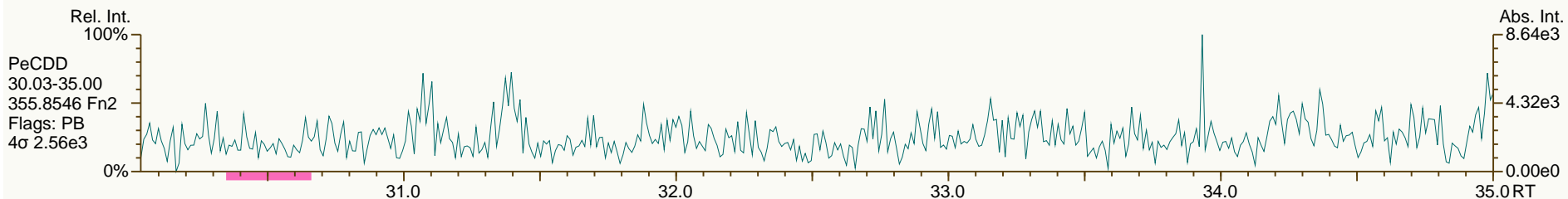
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Sample ID: JW-SC402-D-130928
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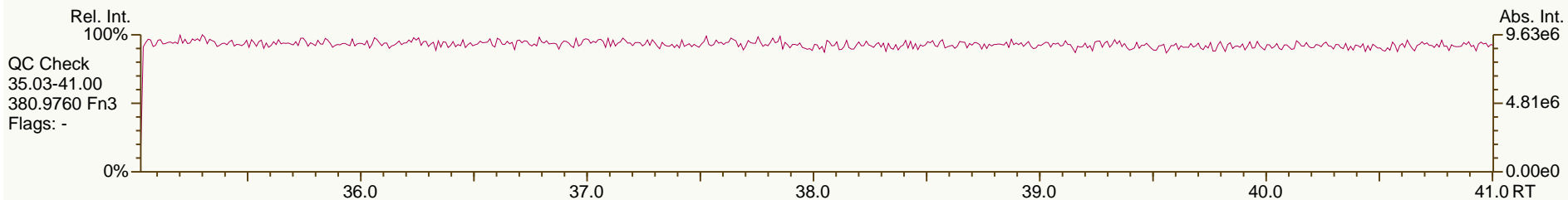
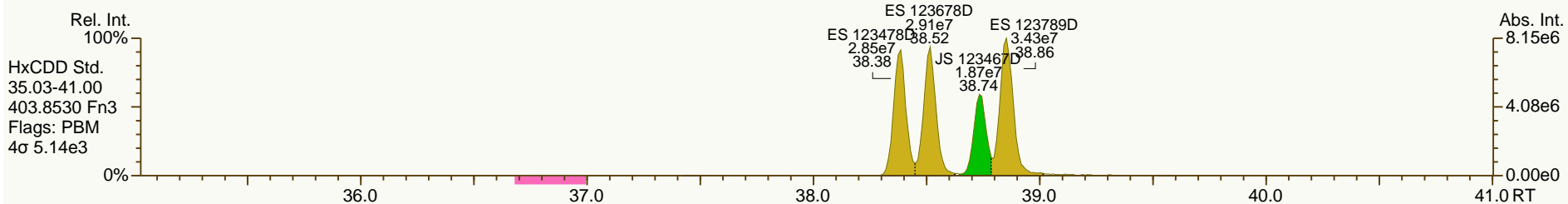
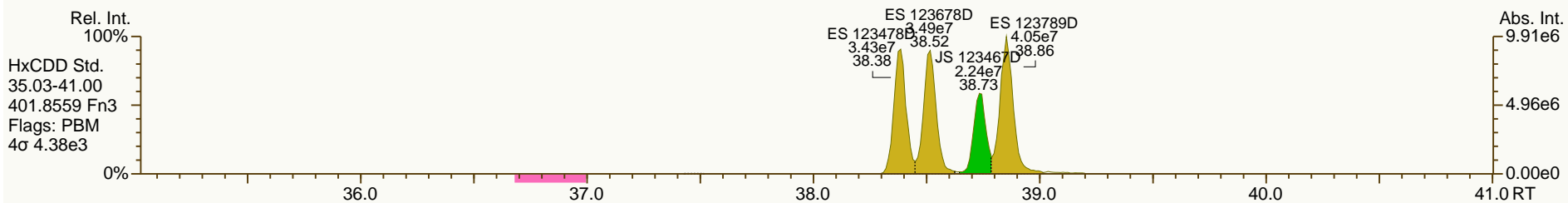
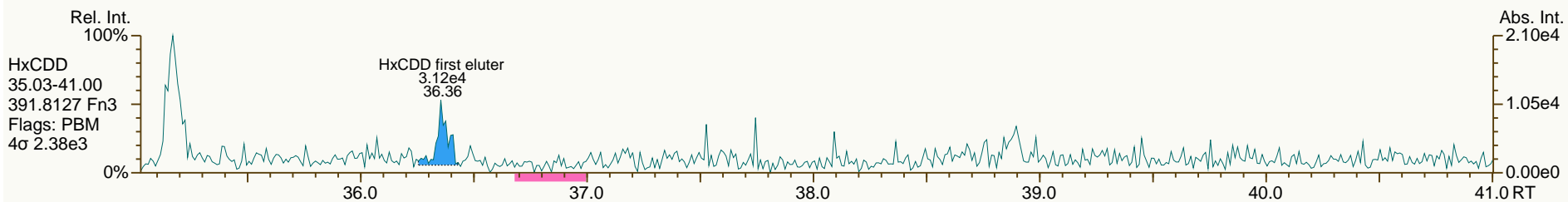
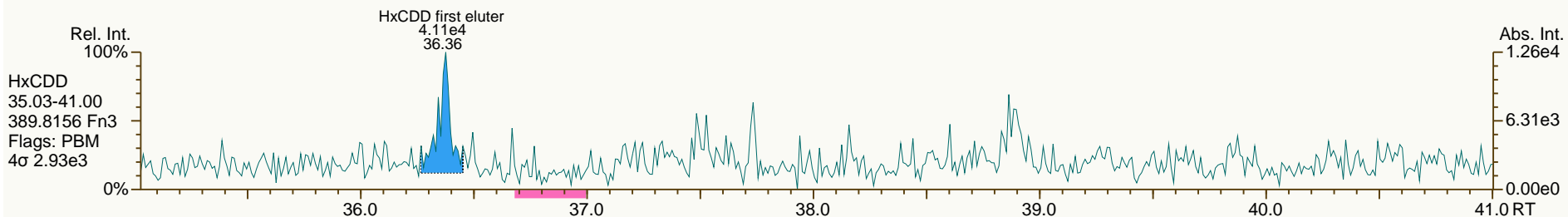
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 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 24

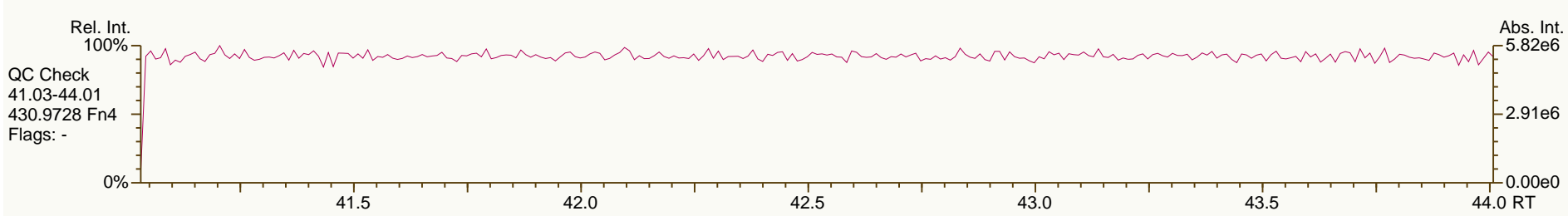
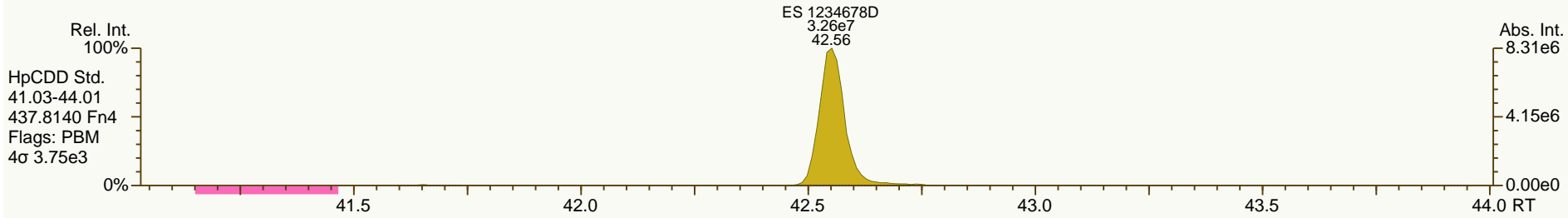
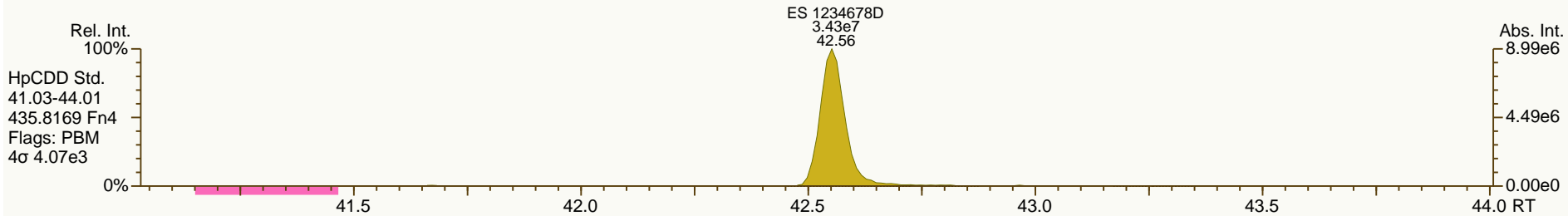
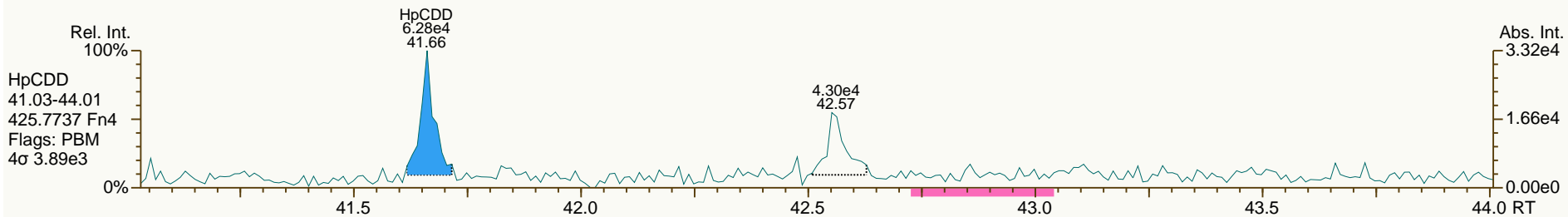
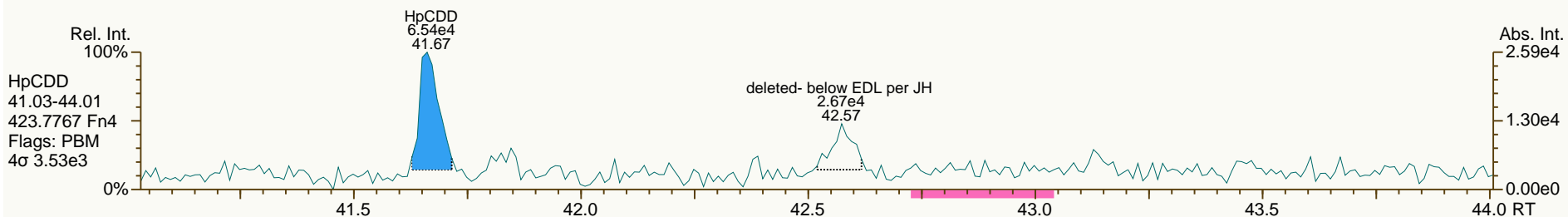
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 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 24

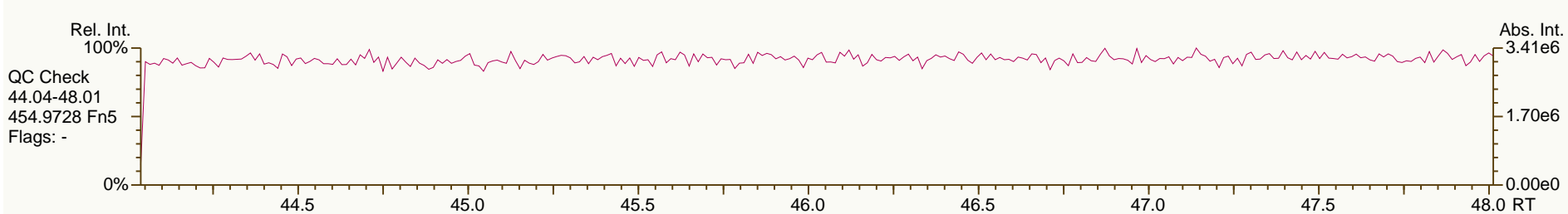
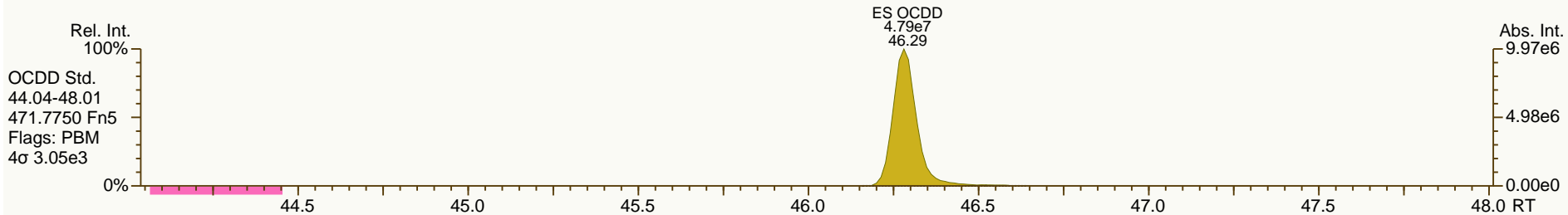
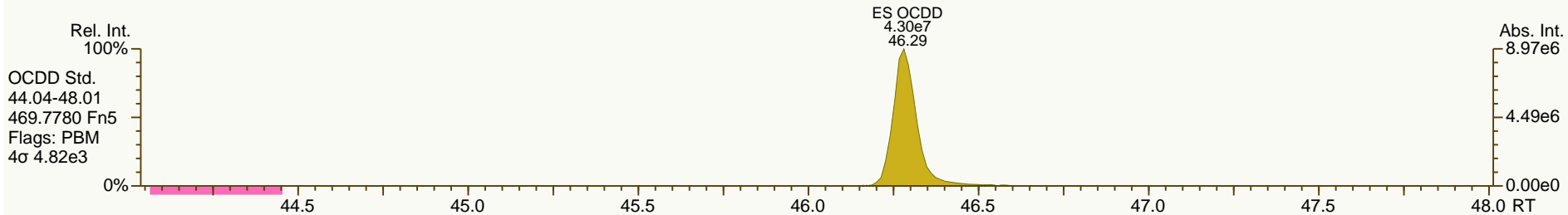
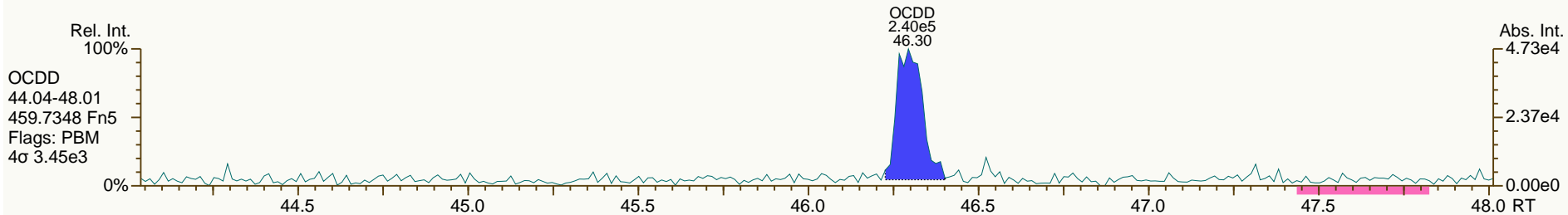
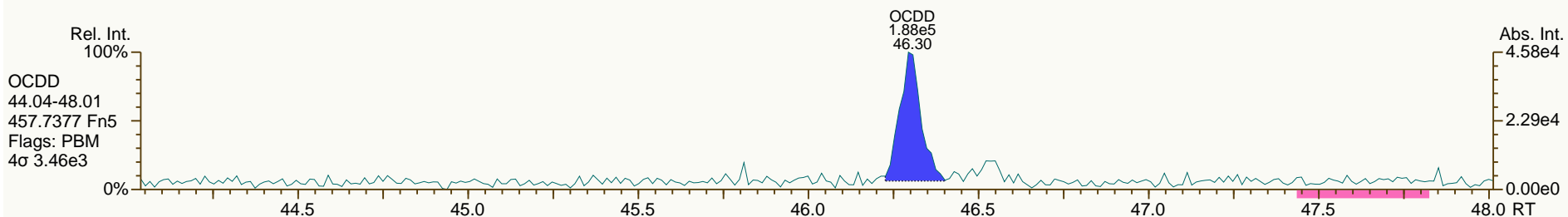
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 User: MDC Datafile: 131013P2-11



SGS-AP ID: A5975_11402_DF_011RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-D-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 24

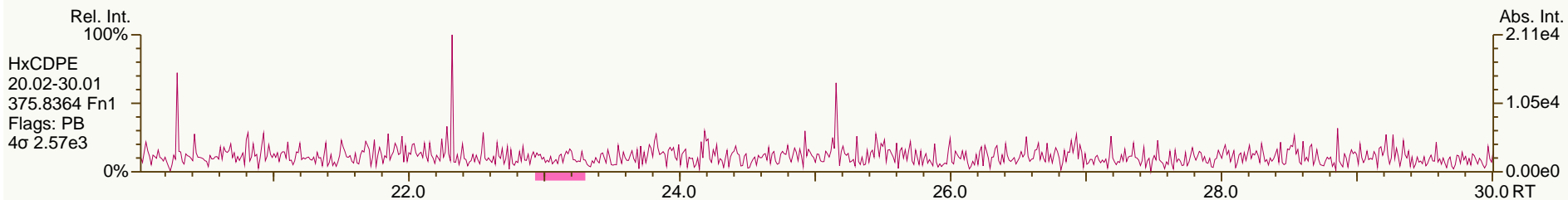
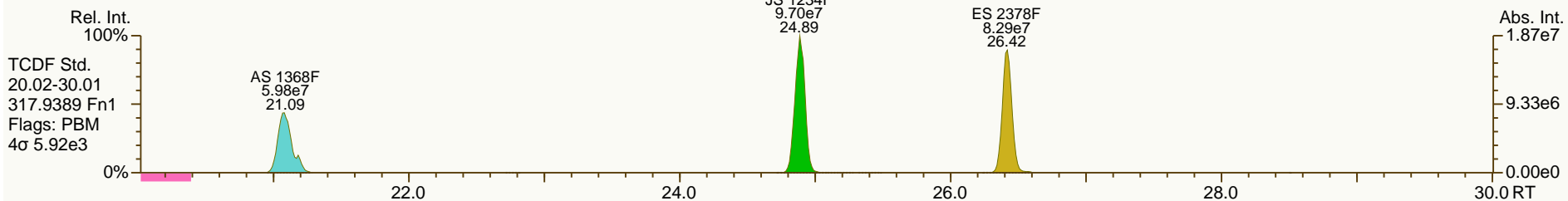
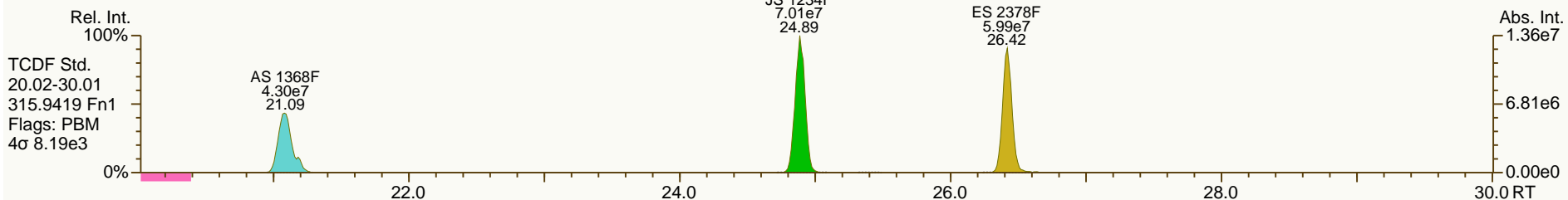
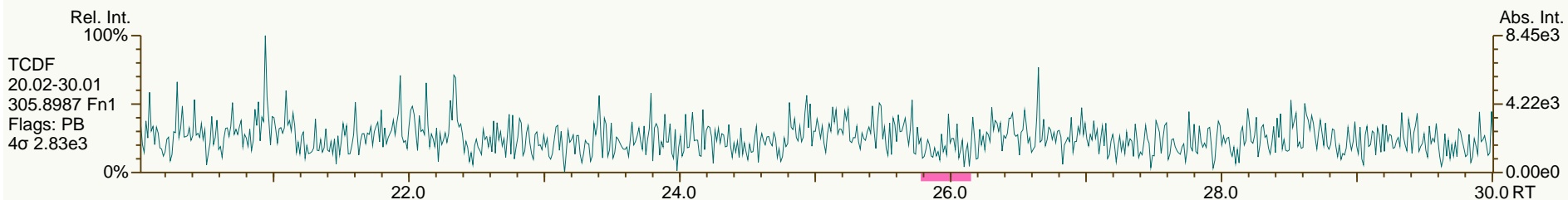
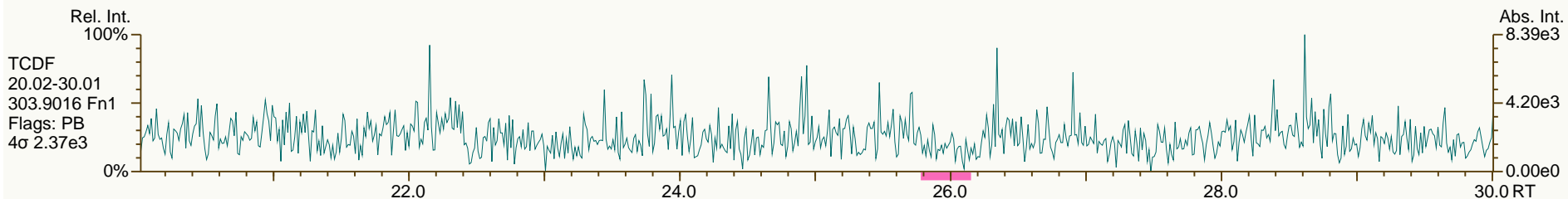
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SGS-AP ID: A5975_11402_DF_011RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-D-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 24

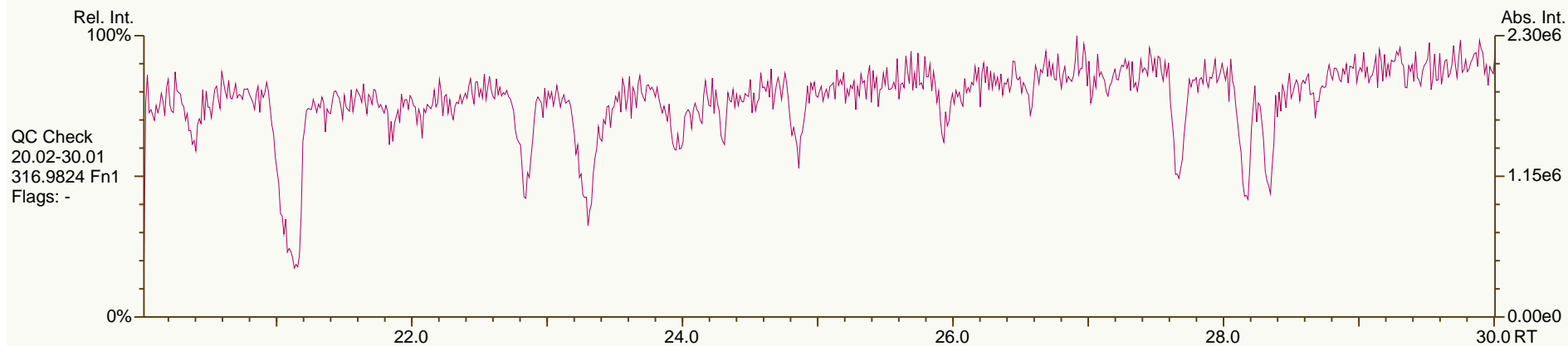
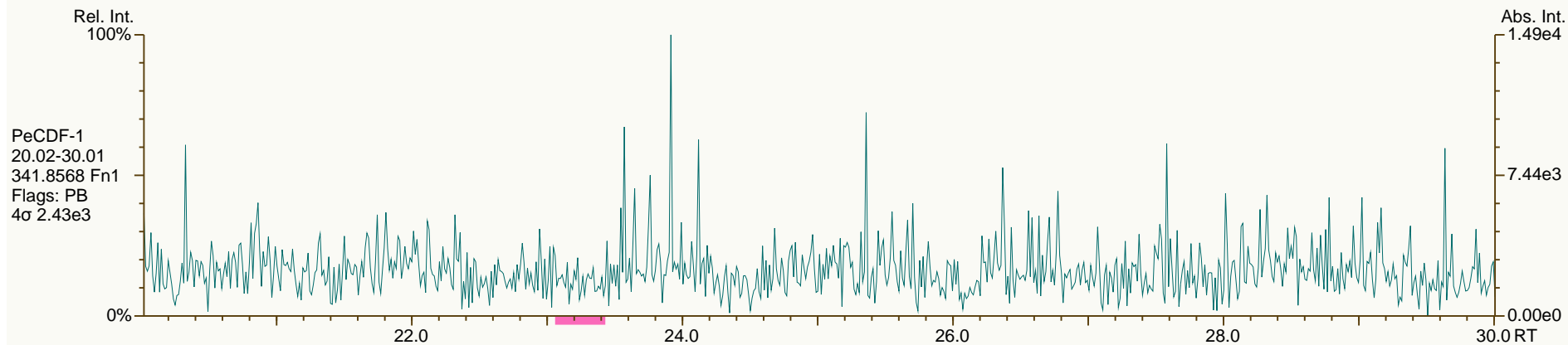
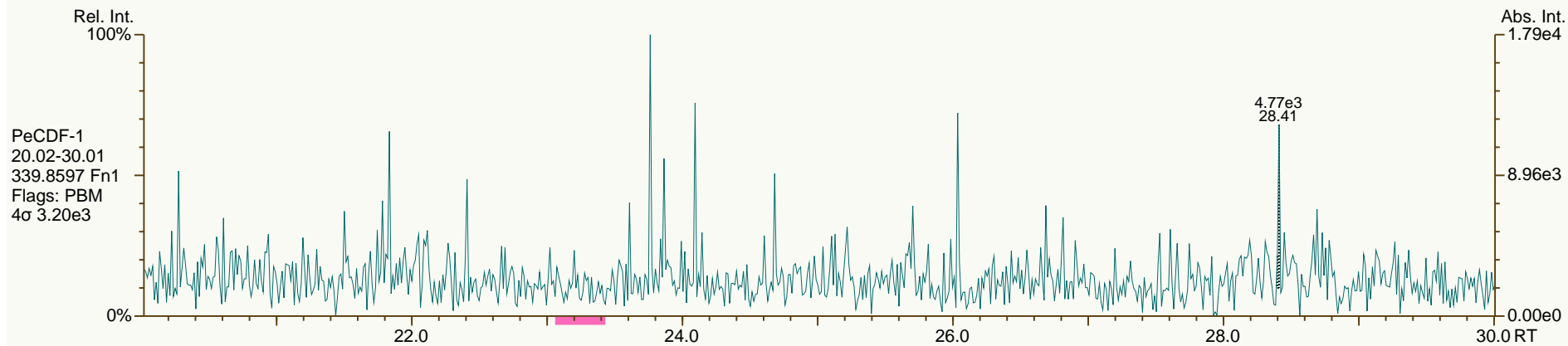
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SGS-AP ID: A5975_11402_DF_011RJ
Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-D-130928
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 24

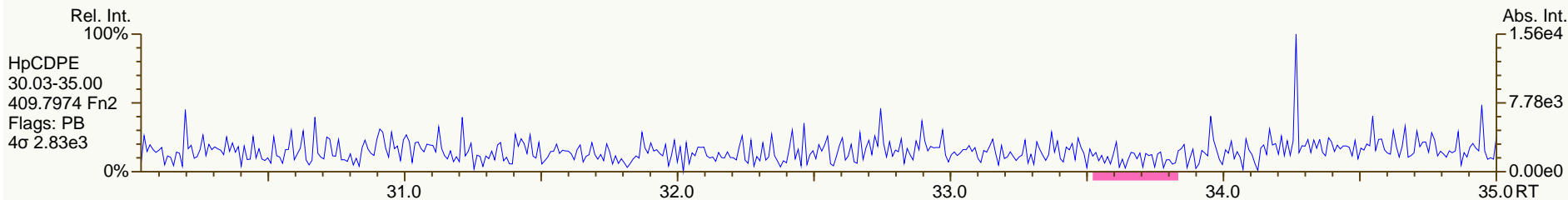
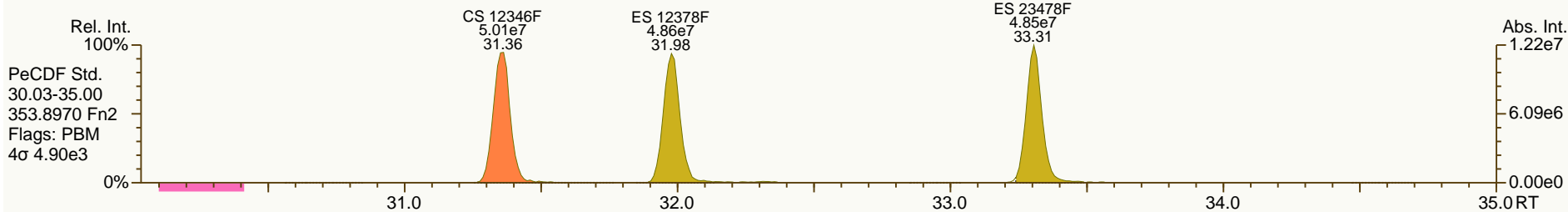
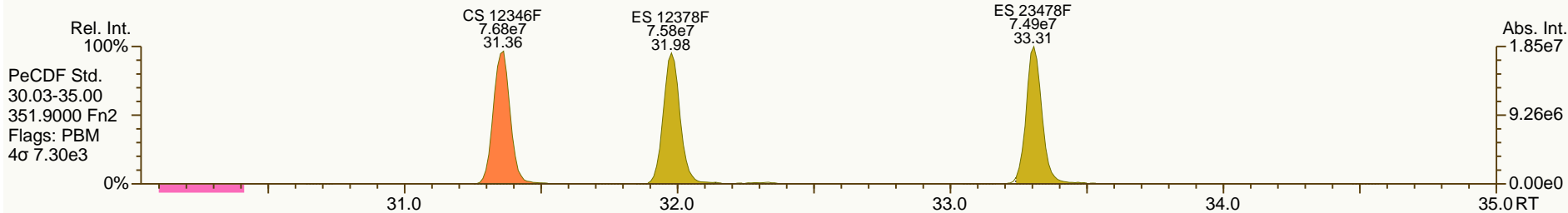
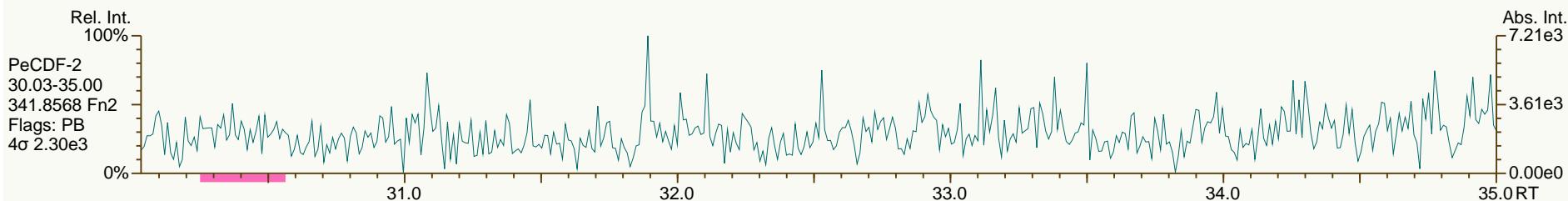
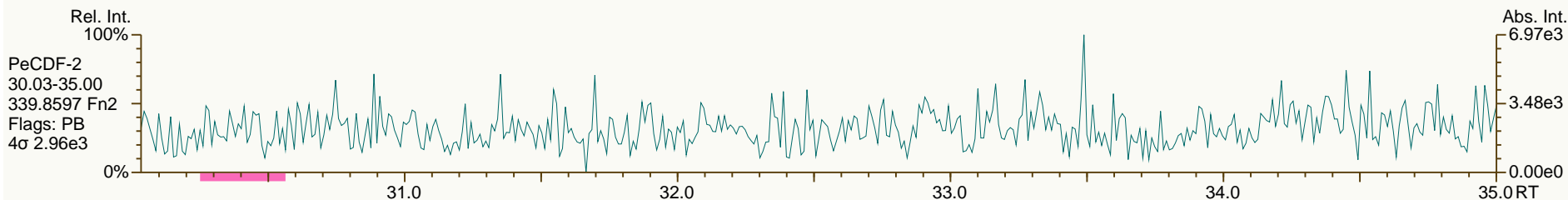
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SGS-AP ID: A5975_11402_DF_011RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-D-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 24

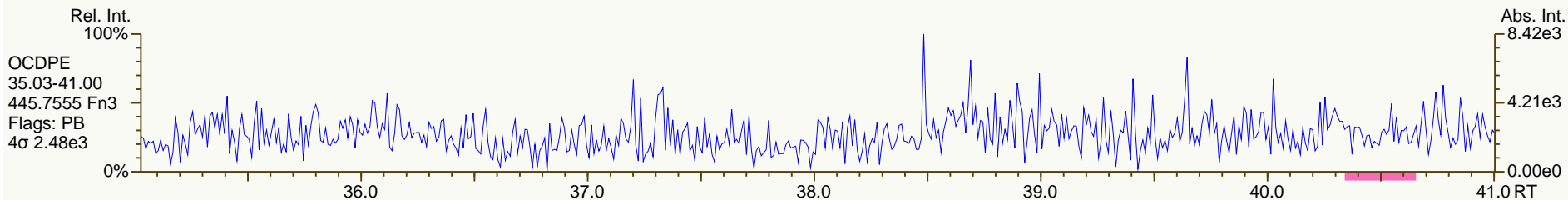
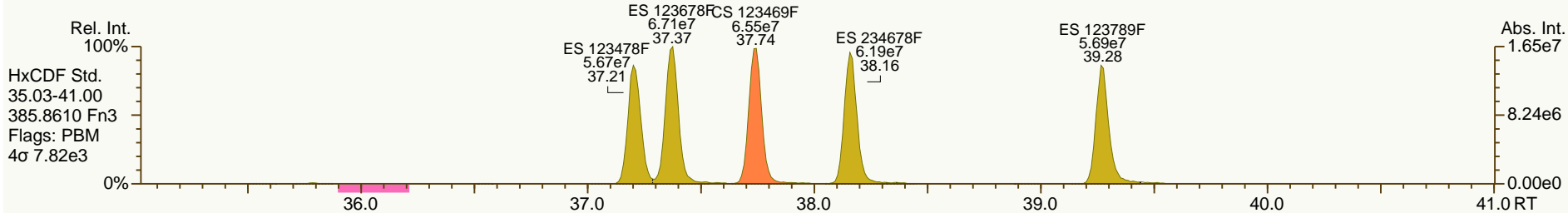
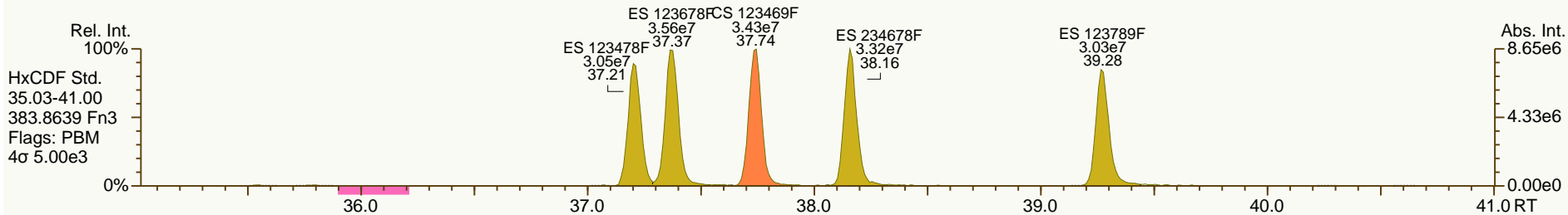
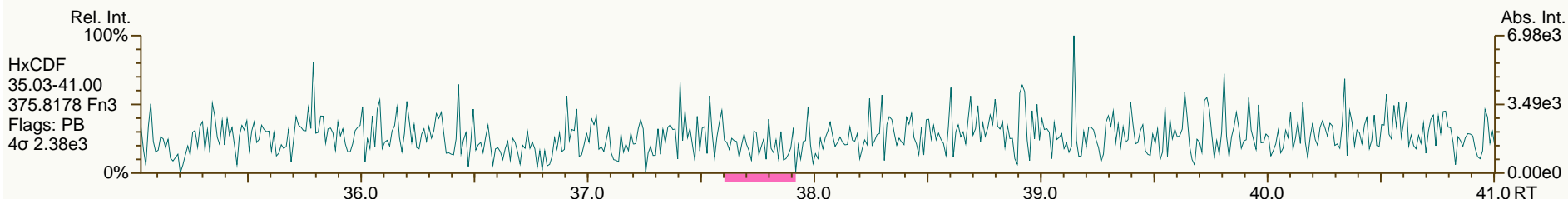
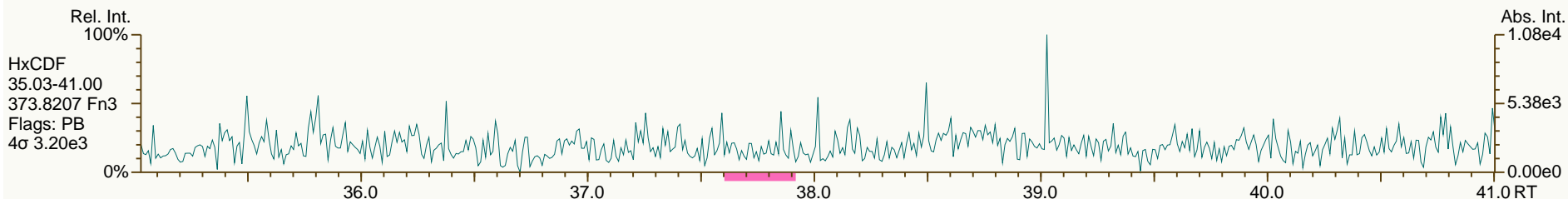
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SGS-AP ID: A5975_11402_DF_011RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-D-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 24

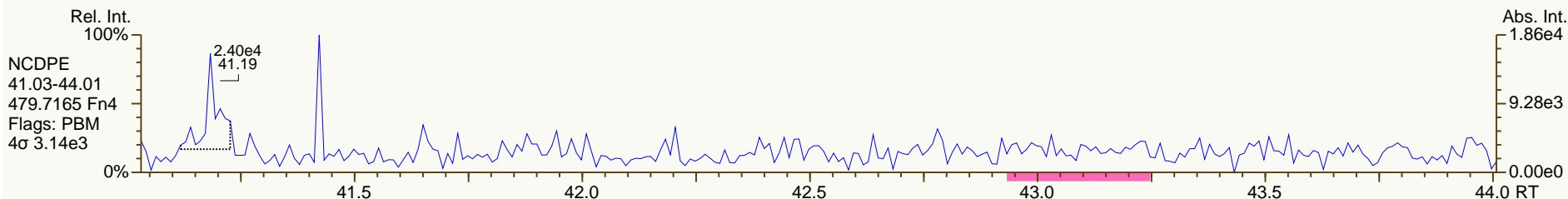
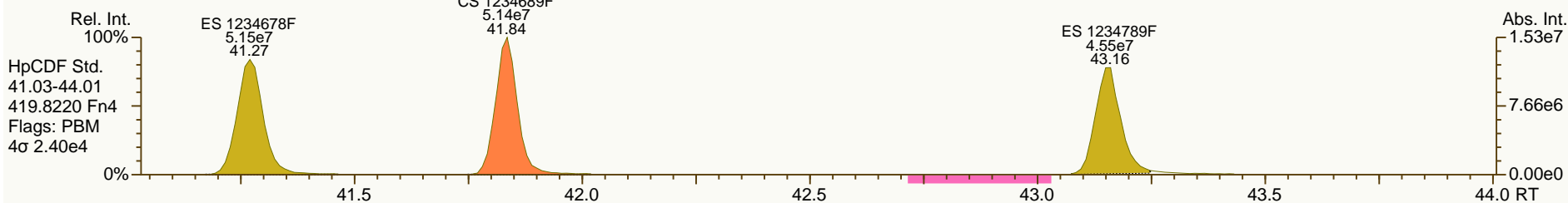
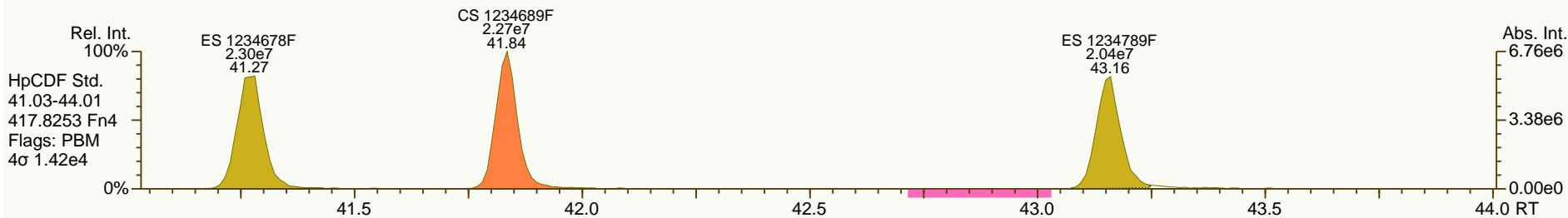
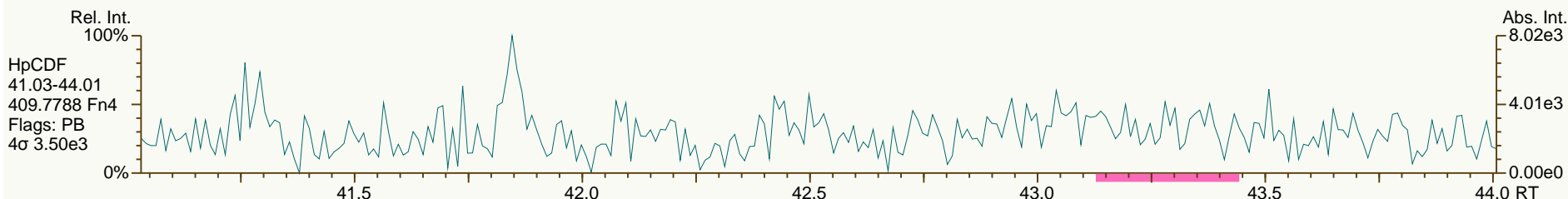
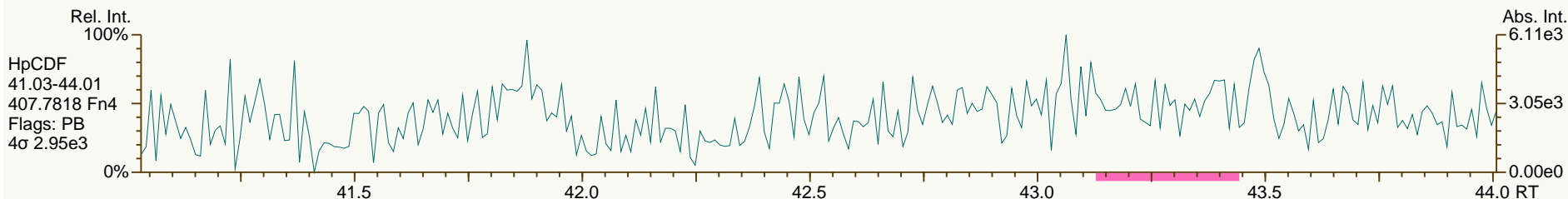
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SGS-AP ID: A5975_11402_DF_011RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-D-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 24

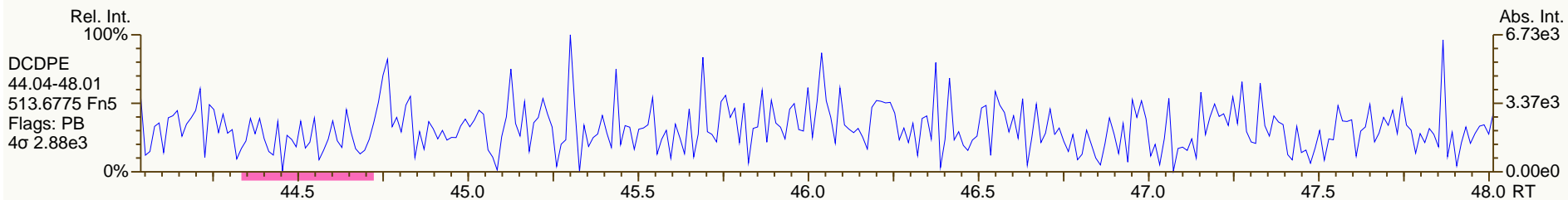
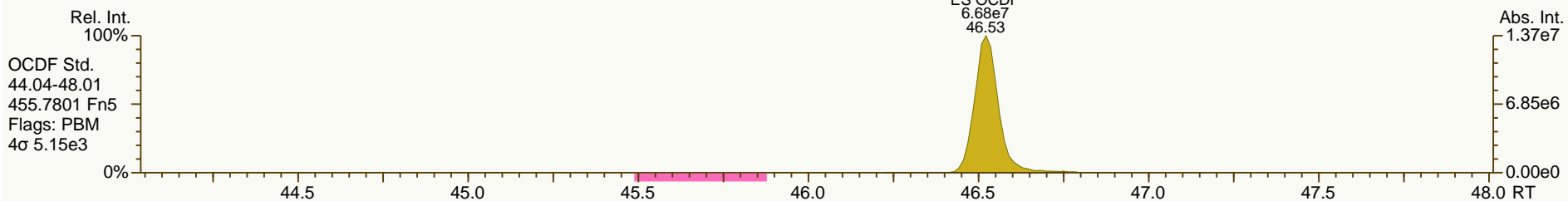
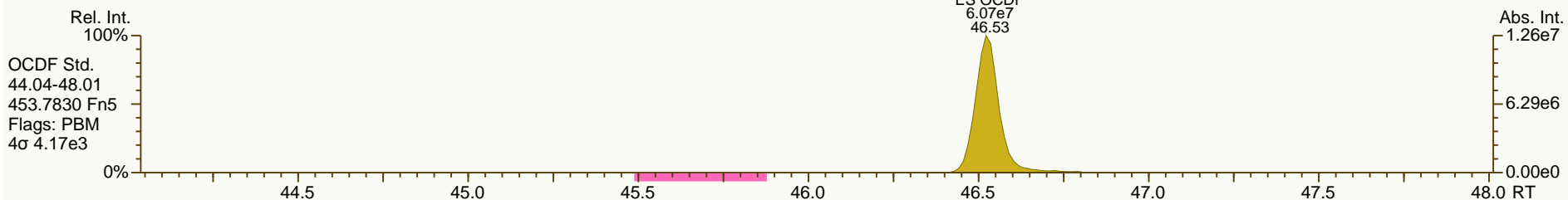
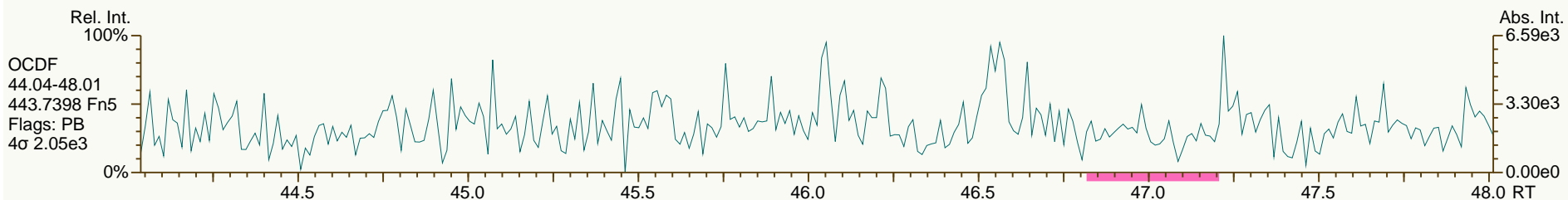
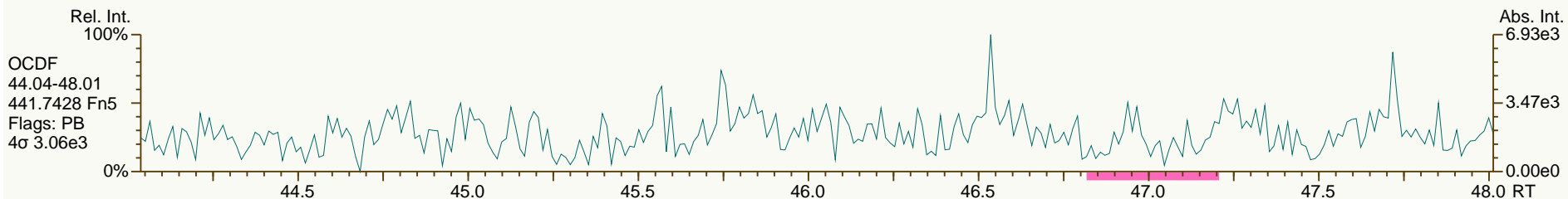
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SGS-AP ID: A5975_11402_DF_011RJ
 Instr: AutoSpec-Ultima MM1

Sample ID: JW-SC402-D-130928
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 24

Acq: 14-OCT-2013 07:05:15
 User: MDC Datafile: 131013P2-11



SGS Analytical Perspectives — Run Log

Project: A5975_11402_DF

Instrument: MM1 (AutoSpec-Ultima)

MS Experiment: DF_CL4-8B

GC Program: DB5MS_60M

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
1	131013P2-01	7	CS3_131013_DF_PA	1.00	11012012A	MDC	003-883	13-OCT-2013	22:19:57
2	131013P2-02	17	OPR1_11402_DFRJ	1.00	0_11402_OPR001	MDC	313-593	13-OCT-2013	23:12:25
3	131013P2-03	15	SBS_131013_DF_PB	1.00	solvent blank	MDC	789-171	14-OCT-2013	00:04:51
4	131013P2-04	16	MB1_11402_DF_SDSRJ	10.00	Method Blank	MDC	348-705	14-OCT-2013	00:57:21
5	131013P2-05	18	A5975_11402_DF_001RJ	10.01	JW-SC401-A-130928	MDC	639-644	14-OCT-2013	01:49:59
6	131013P2-06	19	A5975_11402_DF_002RJ	10.08	JW-SC401-B-130928	MDC	154-115	14-OCT-2013	02:42:34
7	131013P2-07	20	A5975_11402_DF_003RJ	10.06	JW-SC401-C-130928	MDC	356-778	14-OCT-2013	03:35:03
8	131013P2-08	21	A5975_11402_DF_008RJ	10.05	JW-SC402-A-130928	MDC	123-973	14-OCT-2013	04:27:38
9	131013P2-09	22	A5975_11402_DF_009RJ	10.03	JW-SC402-B-130928	MDC	089-341	14-OCT-2013	05:20:12
10	131013P2-10	23	A5975_11402_DF_010RJ	10.01	JW-SC402-C-130928	MDC	308-442	14-OCT-2013	06:12:46
11	131013P2-11	24	A5975_11402_DF_011RJ	10.07	JW-SC402-D-130928	MDC	915-861	14-OCT-2013	07:05:15
12	131013P2-12	15	SBS_131013_DF_PC	1.00	solvent blank	MDC	170-498	14-OCT-2013	07:57:52
13	131013P2-13	7	CS3_131013_DF_PB	1.00	11012012A	MDC	287-125	14-OCT-2013	08:50:25

REVIEWED*By Michael D H Chu at 10:11 am, Oct 15, 2013***REVIEWED***By Todd Vilen at 7:08 am, Oct 18, 2013*

Dioxin/Furan QC Summary		Acq'd: 13 Oct 2013 22:19 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS3_131013_DF_PA		UTP: 15-Oct-2013 09:37 MDC			Checkcode: 003-883-TKH		
Sample ID: 11012012A		Report: 15 Oct 2013 09:37 MC			Datafile: 131013P2-01		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.43	1.13E+07	0.80	Y	1.18	1.17	-1%
12378-PeCDD	33.73	4.37E+07	1.58	Y	1.07	1.00	-7%
123478-HxCDD	38.39	4.02E+07	1.26	Y	1.19	1.14	-5%
123678-HxCDD	38.52	4.12E+07	1.26	Y	1.19	1.16	-3%
123789-HxCDD	38.86	4.37E+07	1.26	Y	1.12	1.08	-3%
1234678-HpCDD	42.56	3.95E+07	1.05	Y	1.08	1.09	0%
OCDD	46.29	6.47E+07	0.91	Y	1.14	1.12	-2%
2378-TCDF	26.44	1.68E+07	0.80	Y	1.10	1.10	0%
12378-PeCDF	31.99	7.51E+07	1.55	Y	1.17	1.11	-5%
23478-PeCDF	33.32	7.40E+07	1.54	Y	1.14	1.06	-7%
123478-HxCDF	37.22	6.62E+07	1.24	Y	1.34	1.31	-2%
123678-HxCDF	37.38	7.05E+07	1.25	Y	1.23	1.21	-2%
234678-HxCDF	38.17	6.67E+07	1.24	Y	1.26	1.27	1%
123789-HxCDF	39.28	5.88E+07	1.26	Y	1.23	1.23	-1%
1234678-HpCDF	41.28	5.70E+07	1.02	Y	1.42	1.38	-3%
1234789-HpCDF	43.16	5.20E+07	1.03	Y	1.39	1.35	-3%
OCDF	46.53	8.99E+07	0.91	Y	1.11	1.10	-1%
ES 2378-TCDD	27.40	9.67E+07	0.77	Y	1.02	1.03	0%
ES 12378-PeCDD	33.71	8.70E+07	1.59	Y	0.92	0.92	1%
ES 123478-HxCDD	38.37	7.09E+07	1.22	Y	1.02	0.95	-7%
ES 123678-HxCDD	38.50	7.12E+07	1.21	Y	1.01	0.96	-5%
ES 123789-HxCDD	38.84	8.08E+07	1.23	Y	1.14	1.08	-5%
ES 1234678-HpCDD	42.54	7.29E+07	1.06	Y	1.02	0.98	-4%
ES OCDD	46.27	1.16E+08	0.90	Y	0.72	0.78	8%
ES 2378-TCDF	26.41	1.52E+08	0.74	Y	1.01	1.02	1%
ES 12378-PeCDF	31.97	1.36E+08	1.54	Y	0.89	0.91	3%
ES 23478-PeCDF	33.30	1.40E+08	1.56	Y	0.91	0.94	3%
ES 123478-HxCDF	37.20	1.01E+08	0.53	Y	1.53	1.36	-11%
ES 123678-HxCDF	37.36	1.17E+08	0.53	Y	1.73	1.57	-9%
ES 234678-HxCDF	38.15	1.05E+08	0.55	Y	1.61	1.41	-13%
ES 123789-HxCDF	39.26	9.60E+07	0.53	Y	1.39	1.29	-7%
ES 1234678-HpCDF	41.26	8.29E+07	0.45	Y	1.20	1.11	-7%
ES 1234789-HpCDF	43.14	7.72E+07	0.45	Y	1.07	1.04	-3%
ES OCDF	46.51	1.63E+08	0.90	Y	1.04	1.10	5%

Dioxin/Furan QC Summary		Acq'd: 13 Oct 2013 22:19 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS3_131013_DF_PA		UTP: 15-Oct-2013 09:37 MDC			Checkcode: 003-883		
Sample ID: 11012012A		Report: 15 Oct 2013 09:37 MC			Datafile: 131013P2-01		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
JS 1234-TCDD	26.65	9.41E+07	0.79	Y	-	-	-
JS 1234-TCDF	24.87	1.49E+08	0.73	Y	-	-	-
JS 123467-HxCDD	38.72	3.73E+07	1.20	Y	-	-	-
CS 37C1-2378-TCDD	27.43	1.06E+07	n/a	-	1.13	1.13	-1%
CS 12347-PeCDD	33.11	8.78E+07	1.58	Y	0.88	0.93	7%
CS 12346-PeCDF	31.35	1.40E+08	1.58	Y	0.90	0.94	4%
CS 123469-HxCDF	37.73	9.86E+07	0.53	Y	1.40	1.32	-5%
CS 1234689-HpCDF	41.82	8.15E+07	0.44	Y	1.09	1.09	0%
SS 37C1-2378-TCDD	27.43	1.06E+07	n/a	-	1.11	1.10	-2%
SS 12347-PeCDD	33.11	8.78E+07	1.58	Y	0.96	1.01	5%
SS 12346-PeCDF	31.35	1.40E+08	1.58	Y	1.02	1.03	1%
SS 123469-HxCDF	37.73	9.86E+07	0.53	Y	0.81	0.84	4%
SS 1234689-HpCDF	41.82	8.15E+07	0.44	Y	0.91	0.98	8%
AS 1368-TCDD	23.28	9.31E+07	0.78	Y	1.01	0.99	-2%
AS 1368-TCDF	21.08	1.76E+08	0.72	Y	1.22	1.18	-3%
FS 1278-TCDD	27.79	1.13E+08	0.78	Y	1.18	1.17	-1%
FS 12478-PeCDD	32.26	9.41E+07	1.61	Y	1.06	1.08	2%
FS 123468-HxCDD	37.12	9.37E+07	1.20	Y	1.26	1.32	5%
FS 1234679-HpCDD	41.64	8.38E+07	1.04	Y	1.12	1.15	2%
TS 1378-TCDD	25.52	1.03E+08	0.79	Y	1.11	1.07	-4%
OCDD-a	46.28	4.09E+06	2.45	Y	0.07	0.07	4%
OCDF-a	46.53	5.40E+06	2.52	Y	0.06	0.07	4%

METHOD 1613B**PCDD/F CALIBRATION VERIFICATION****FORM 4A**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
 Instrument ID: MM1 GC Column ID: ZB-5ms
 VER Data Filename: 131013P2-01 Analysis Date: 13-OCT-2013 22:19:57

NATIVE ANALYTES	M/Z's FORMING RATIO	ION ABUND. RATIO	QC LIMITS	OK	CONC. FOUND	RANGE (ng/mL)	OK
2,3,7,8-TCDD	M/M+2	0.80	0.65 - 0.89	Y	9.92	7.8 - 12.9	Y
1,2,3,7,8-PeCDD	M+2/M+4	1.58	1.32 - 1.78	Y	46.7	39 - 65	Y
1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05 - 1.43	Y	47.7	39 - 64	Y
1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05 - 1.43	Y	48.6	39 - 64	Y
1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05 - 1.43	Y	48.5	41 - 61	Y
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88 - 1.20	Y	50	43 - 58	Y
OCDD	M+2/M+4	0.91	0.76 - 1.02	Y	97.8	79 - 126	Y
2,3,7,8-TCDF	M/M+2	0.80	0.65 - 0.89	Y	10	8.4 - 12	Y
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32 - 1.78	Y	47.4	41 - 60	Y
2,3,4,7,8-PeCDF	M+2/M+4	1.54	1.32 - 1.78	Y	46.3	41 - 61	Y
1,2,3,4,7,8-HxCDF	M+2/M+4	1.24	1.05 - 1.43	Y	48.8	45 - 56	Y
1,2,3,6,7,8-HxCDF	M+2/M+4	1.25	1.05 - 1.43	Y	49.1	44 - 57	Y
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05 - 1.43	Y	50.5	44 - 57	Y
1,2,3,7,8,9-HxCDF	M+2/M+4	1.26	1.05 - 1.43	Y	49.7	45 - 56	Y
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.02	0.88 - 1.20	Y	48.4	45 - 55	Y
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.03	0.88 - 1.20	Y	48.5	43 - 58	Y
OCDF	M+2/M+4	0.91	0.76 - 1.02	Y	99.4	63 - 159	Y

See Table 9, Method 1613, for m/z specifications.

Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

Contract-required concentration range as specified in Table 6, Method 1613.

Processed: 15 Oct 2013 09:37 Analyst: MC

METHOD 1613B

PCDD/F CALIBRATION VERIFICATION

FORM 4B

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
 Instrument ID: MM1 GC Column ID: ZB-5ms
 VER Data Filename: 131013P2-01 Analysis Date: 13-OCT-2013 22:19:57

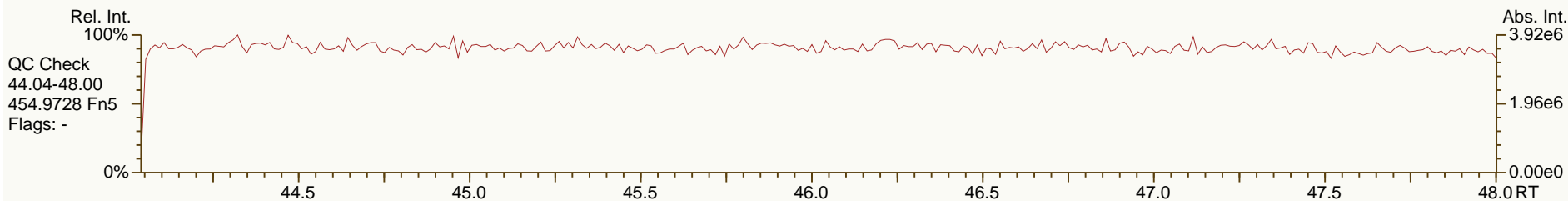
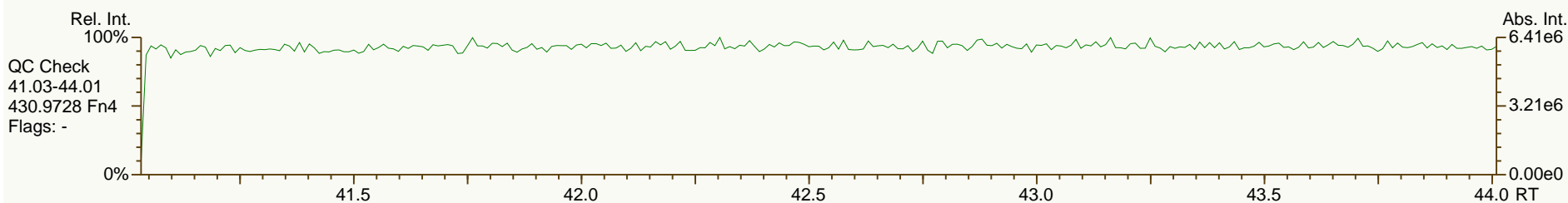
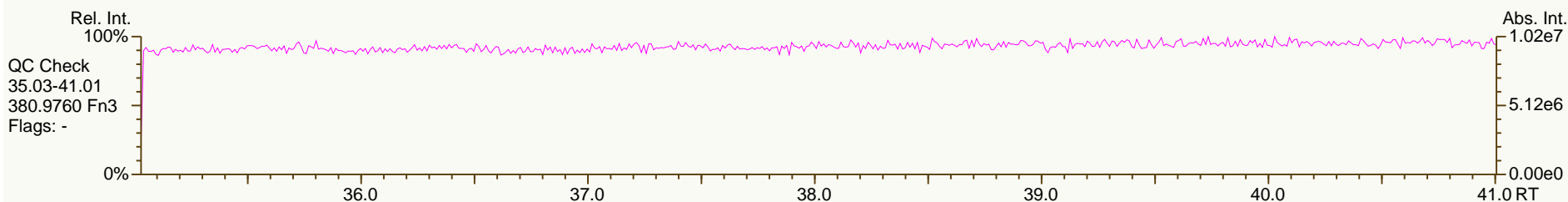
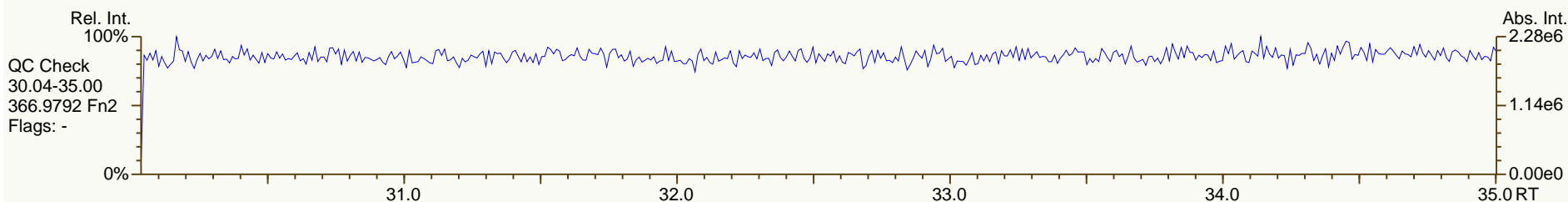
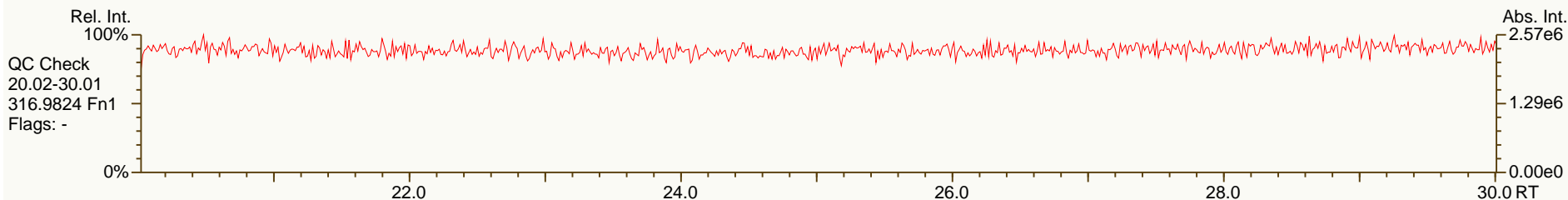
LABELED ANALYTES	M/Z's FORMING RATIO	ION ABUND. RATIO	QC LIMITS	OK	CONC. FOUND	RANGE (ng/mL)	OK
13C-2,3,7,8-TCDD	M/M+2	0.77	0.65 - 0.89	Y	100	82 - 121	Y
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.59	1.32 - 1.78	Y	101	62 - 160	Y
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.22	1.05 - 1.43	Y	93	85 - 117	Y
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.21	1.05 - 1.43	Y	94.8	85 - 118	Y
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05 - 1.43	Y	95	85 - 118	Y
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88 - 1.20	Y	95.6	72 - 138	Y
13C-OCDD	M+2/M+4	0.90	0.76 - 1.02	Y	216	96 - 415	Y
13C-2,3,7,8-TCDF	M/M+2	0.74	0.65 - 0.89	Y	101	71 - 140	Y
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.54	1.32 - 1.78	Y	103	76 - 130	Y
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.56	1.32 - 1.78	Y	103	77 - 130	Y
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.53	0.43 - 0.59	Y	88.8	76 - 131	Y
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.53	0.43 - 0.59	Y	90.7	70 - 143	Y
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.55	0.43 - 0.59	Y	87.2	73 - 137	Y
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.53	0.43 - 0.59	Y	92.5	74 - 135	Y
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.45	0.37 - 0.51	Y	92.7	78 - 129	Y
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.45	0.37 - 0.51	Y	96.9	77 - 129	Y
13C-OCDF	M+2/M+4	0.90	0.76 - 1.02	Y	210	96 - 415	Y
CLEANUP STANDARDS							
37Cl-2,3,7,8-TCDD	n/a				9.94	7.9 - 12.7	Y
13C-1,2,3,4,7-PeCDD	M+2/M+4	1.58	1.32 - 1.78	Y	107	70 - 130	Y
13C-1,2,3,4,6-PeCDF	M+2/M+4	1.58	1.32 - 1.78	Y	104	70 - 130	Y
13C-1,2,3,4,6,9-HxCDF	M/M+2	0.53	0.43 - 0.59	Y	94.5	70 - 130	Y
13C-1,2,3,4,6,8,9-HpCDF	M/M+2	0.44	0.37 - 0.51	Y	100	70 - 130	Y

Processed: 15 Oct 2013 09:37 Analyst: MC

SGS-AP ID: CS3_131013_DF_PA
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

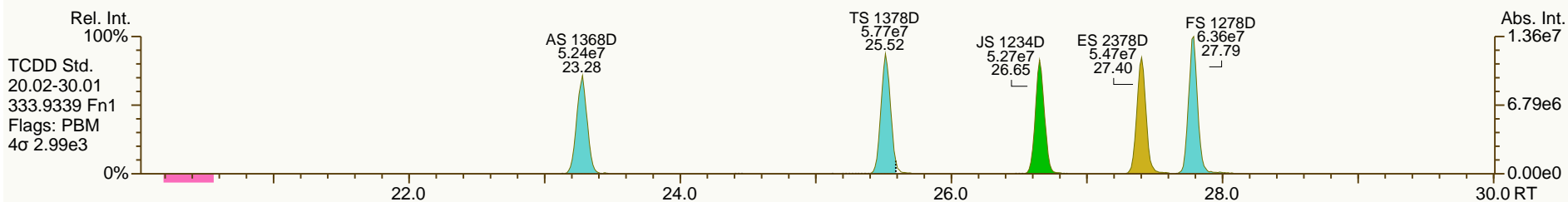
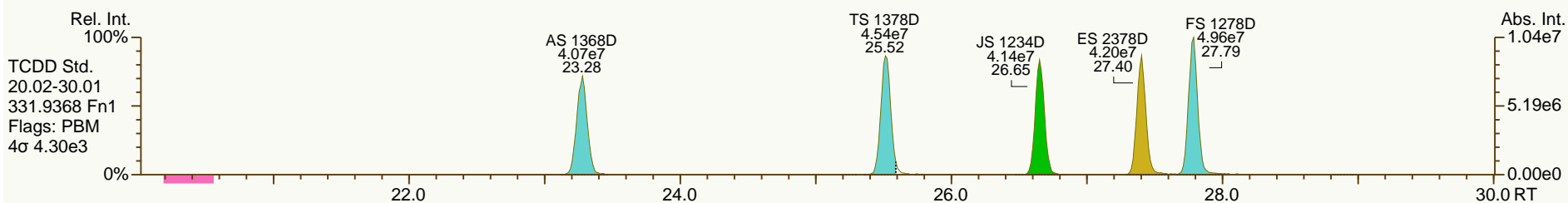
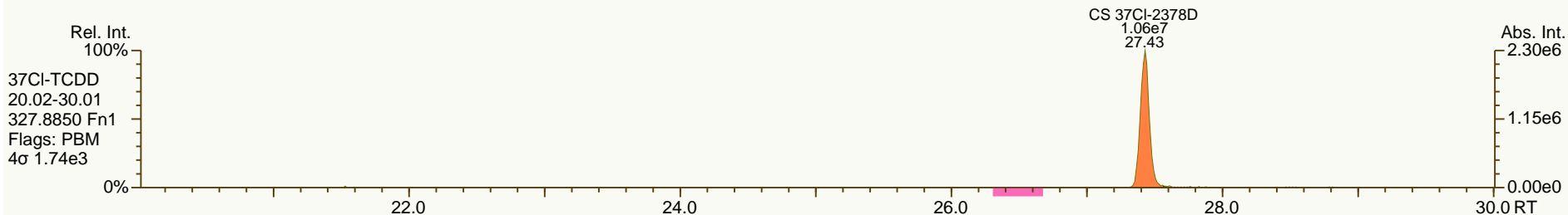
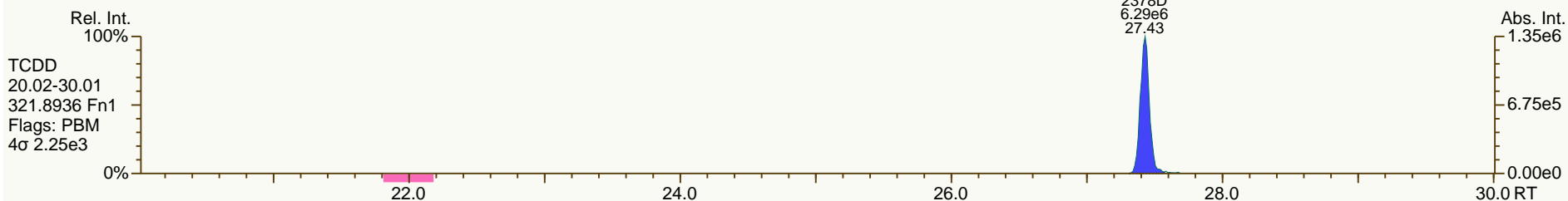
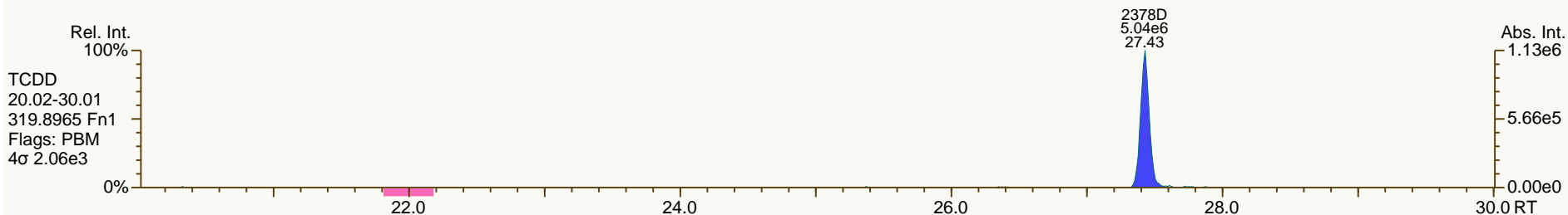
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User: MDC Datafile: 131013P2-01



SGS-AP ID: CS3_131013_DF_PA
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

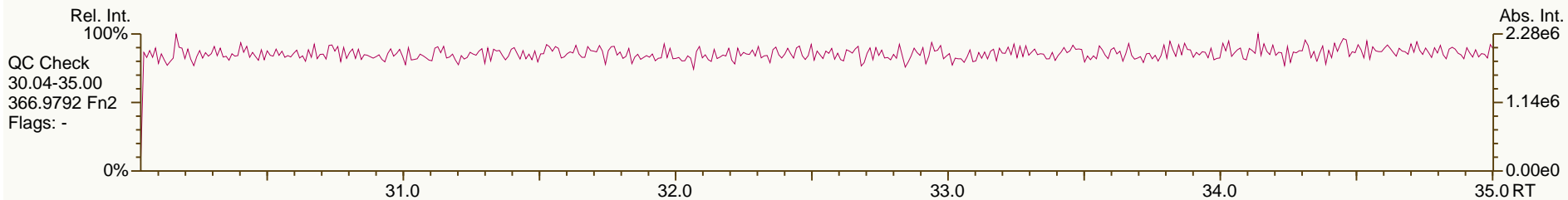
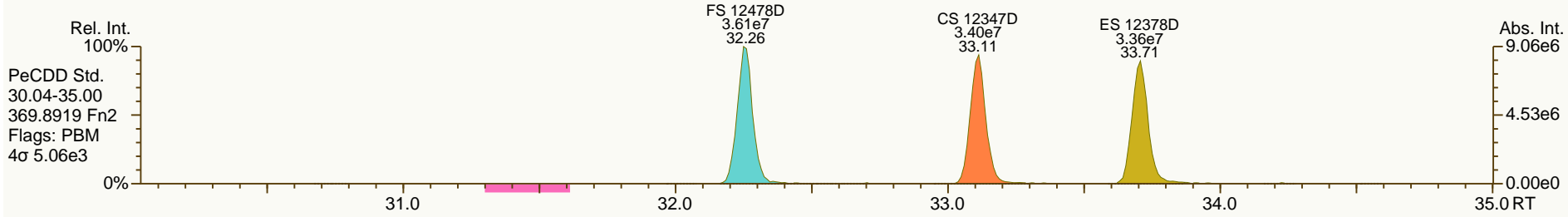
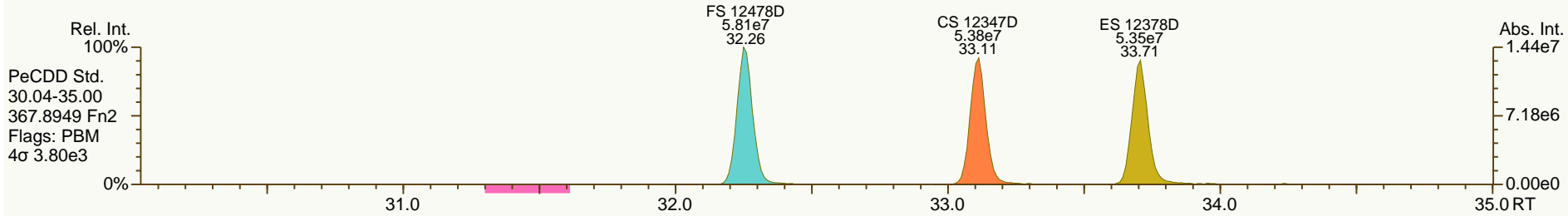
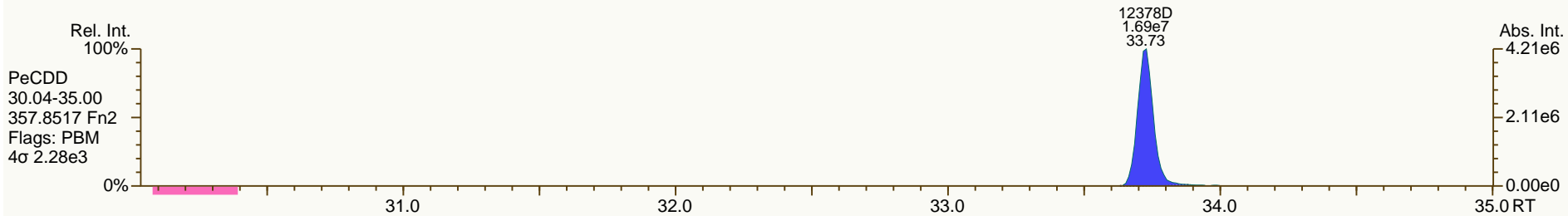
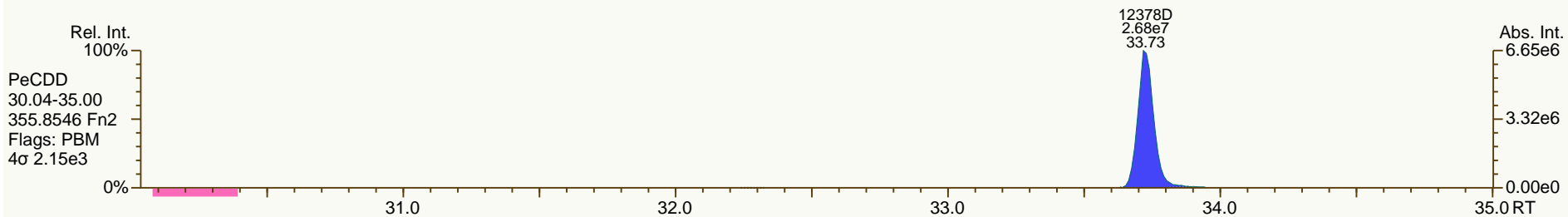
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SGS-AP ID: CS3_131013_DF_PA
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

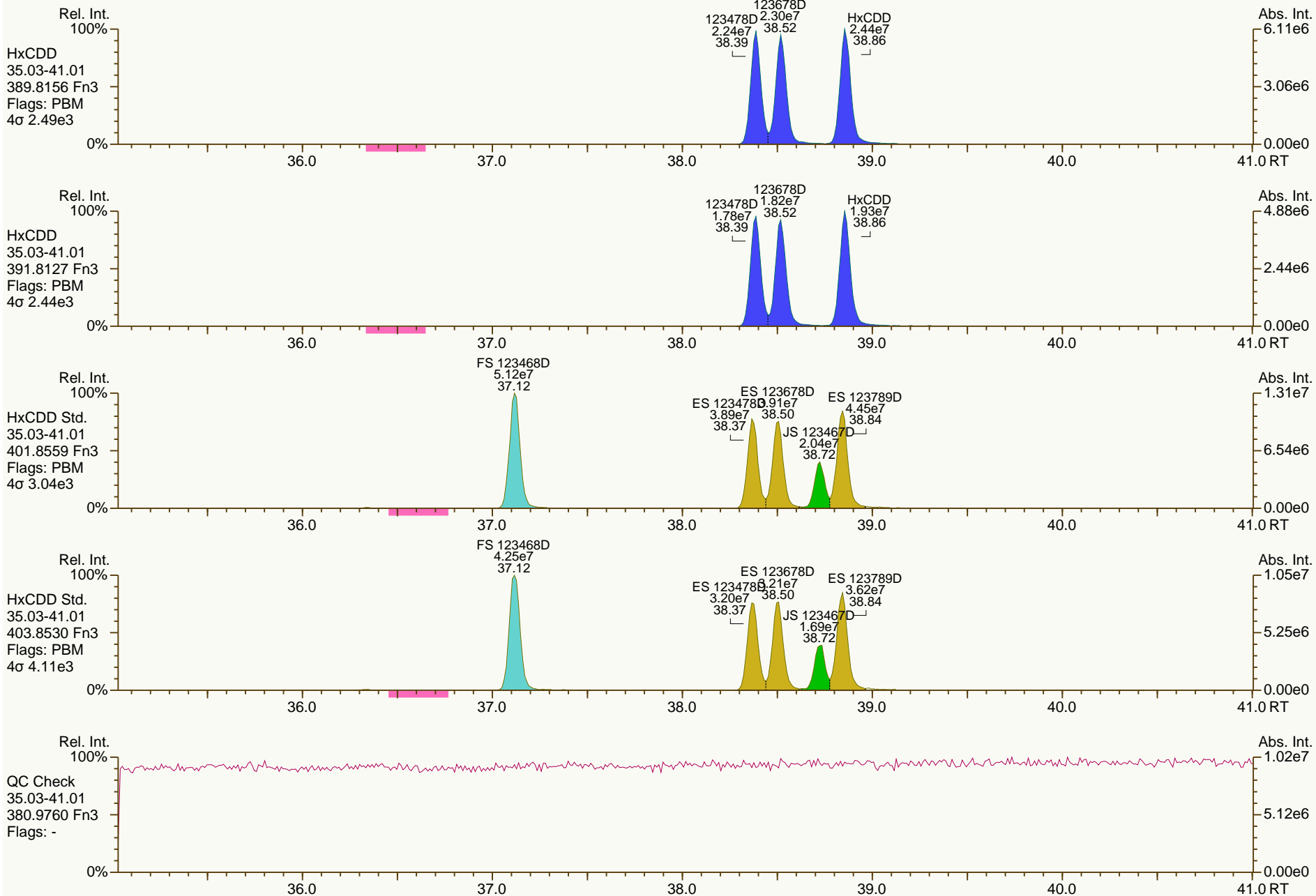
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SGS-AP ID: CS3_131013_DF_PA
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

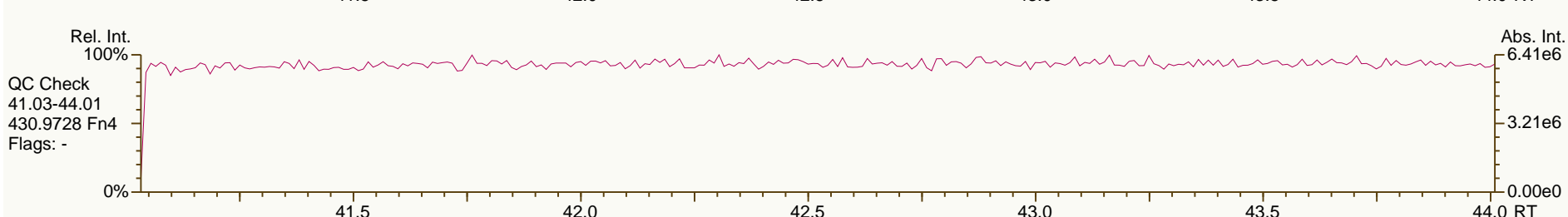
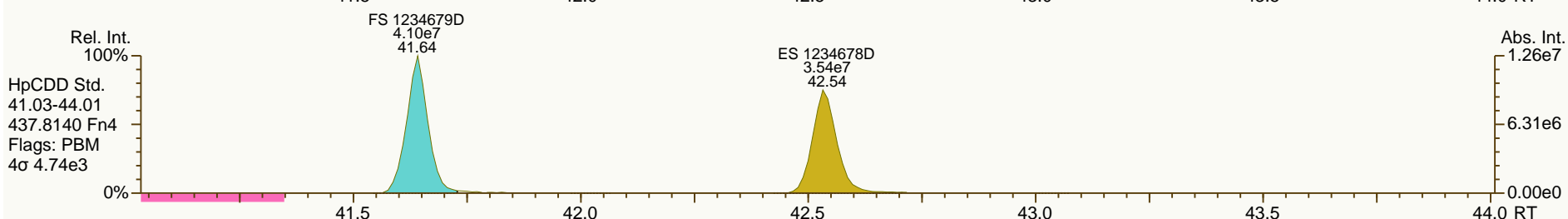
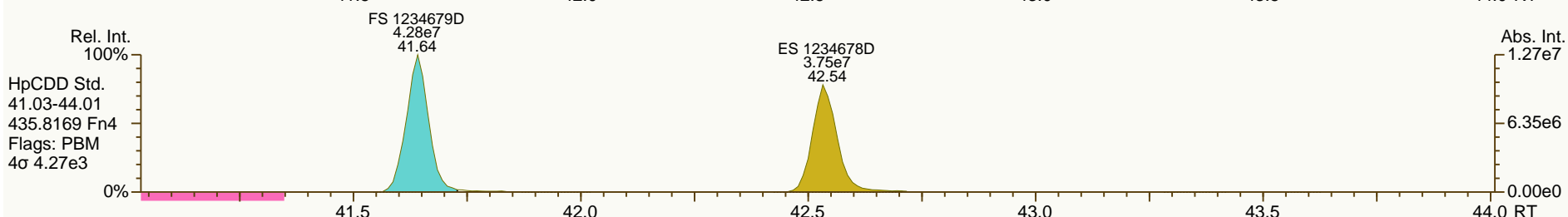
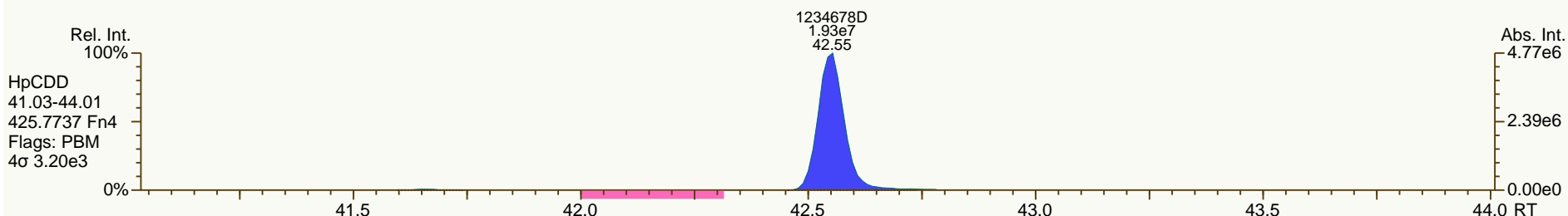
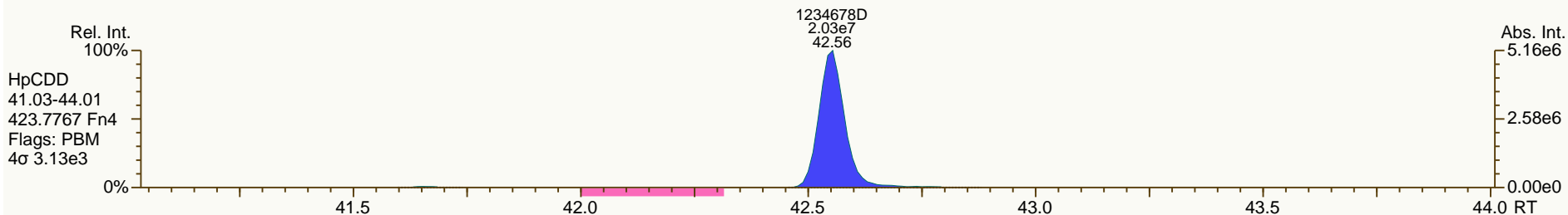
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SGS-AP ID: CS3_131013_DF_PA
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

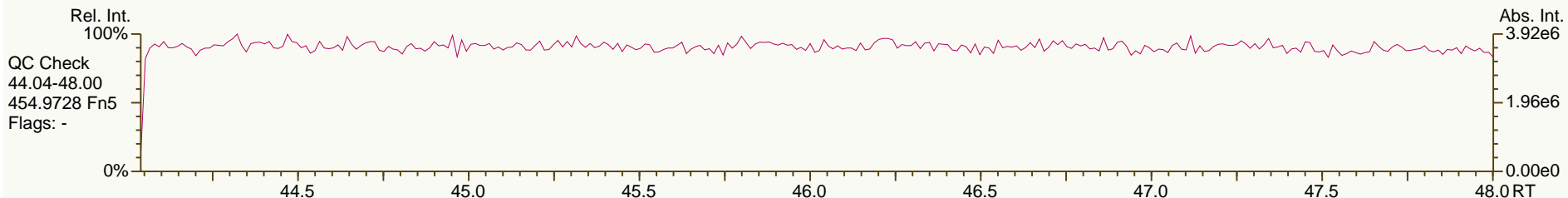
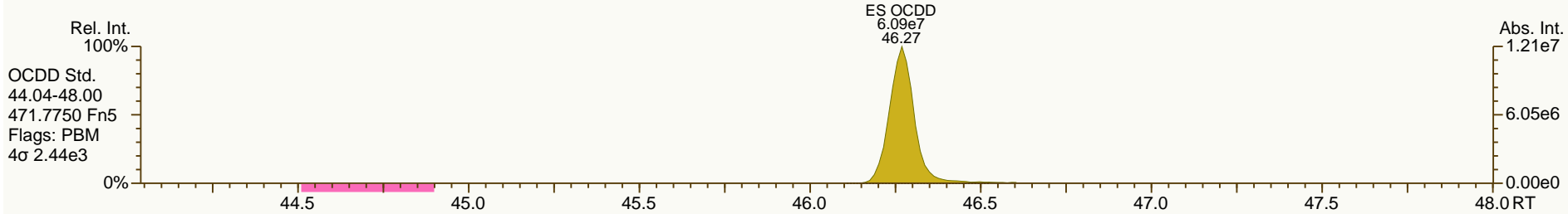
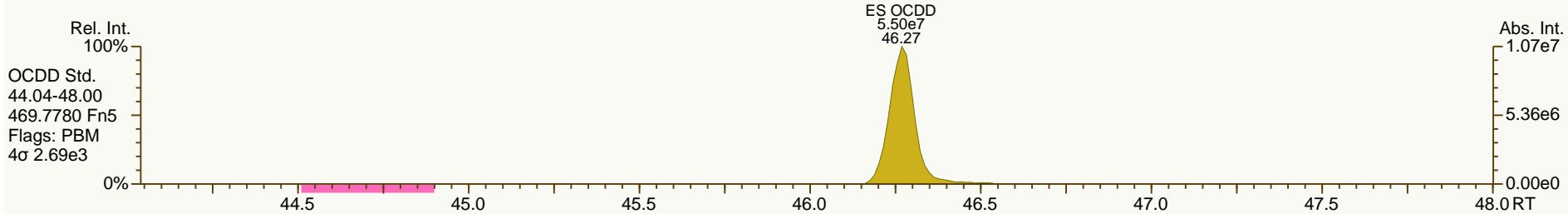
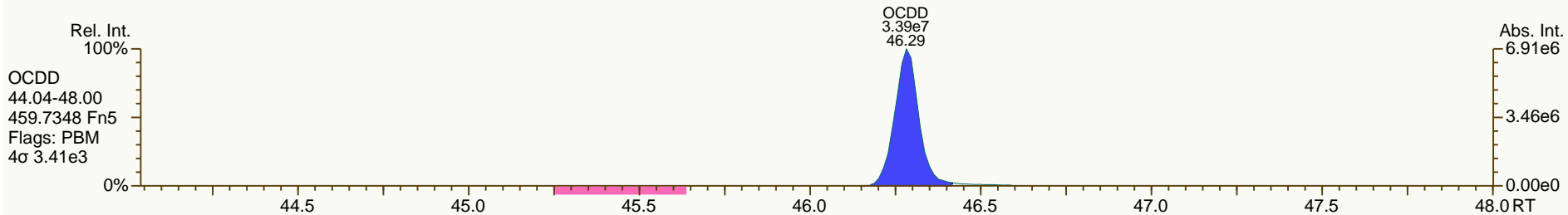
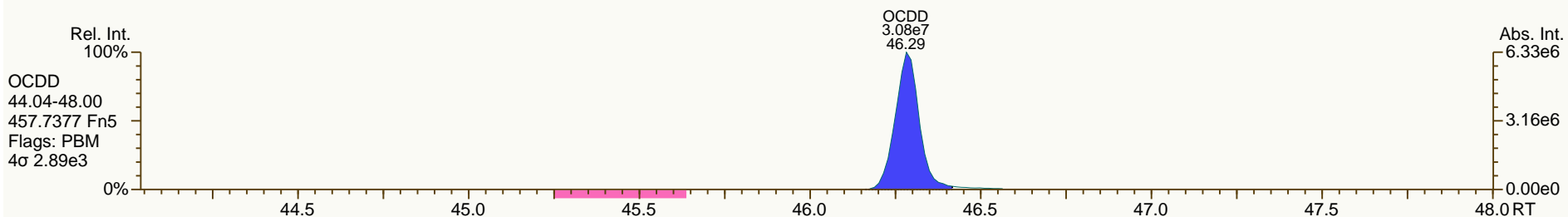
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SGS-AP ID: CS3_131013_DF_PA
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

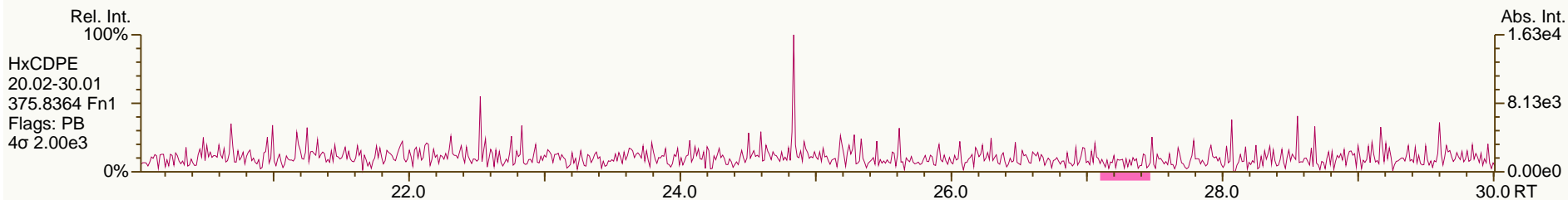
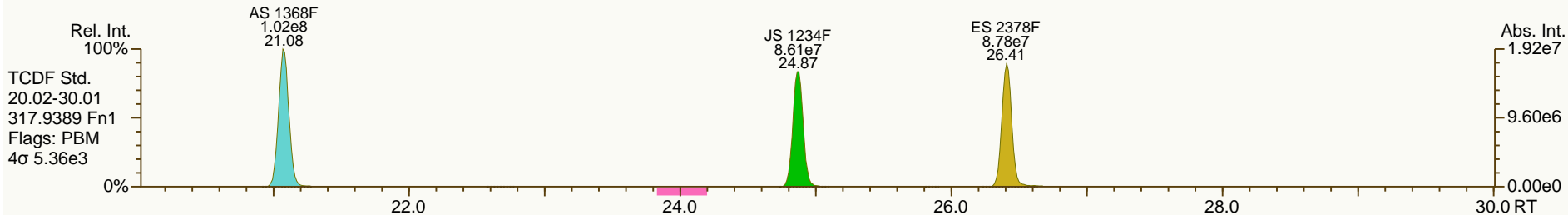
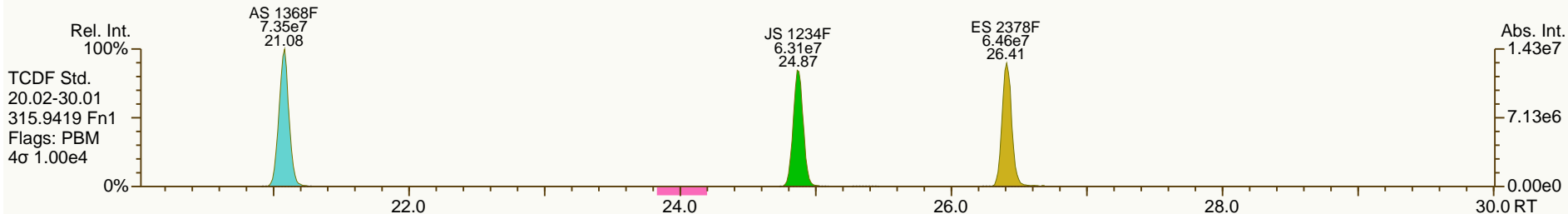
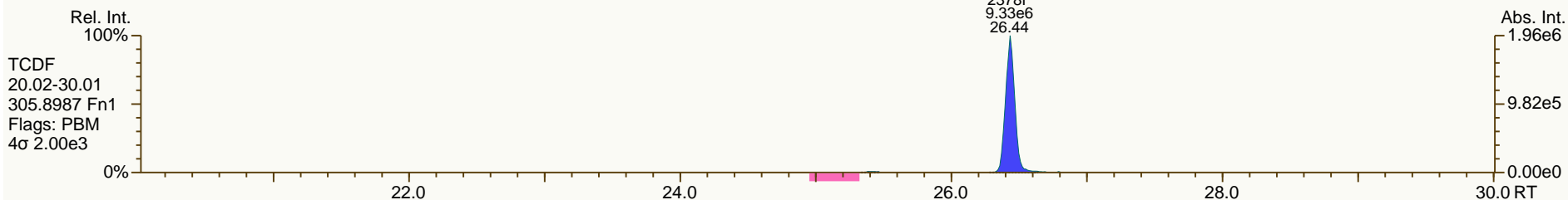
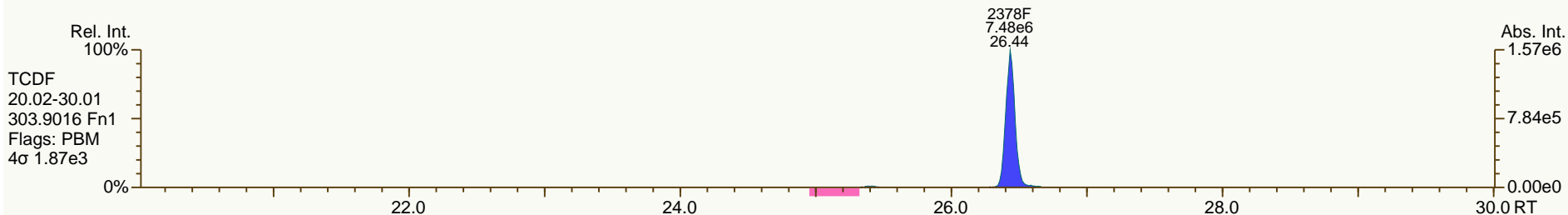
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SGS-AP ID: CS3_131013_DF_PA
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

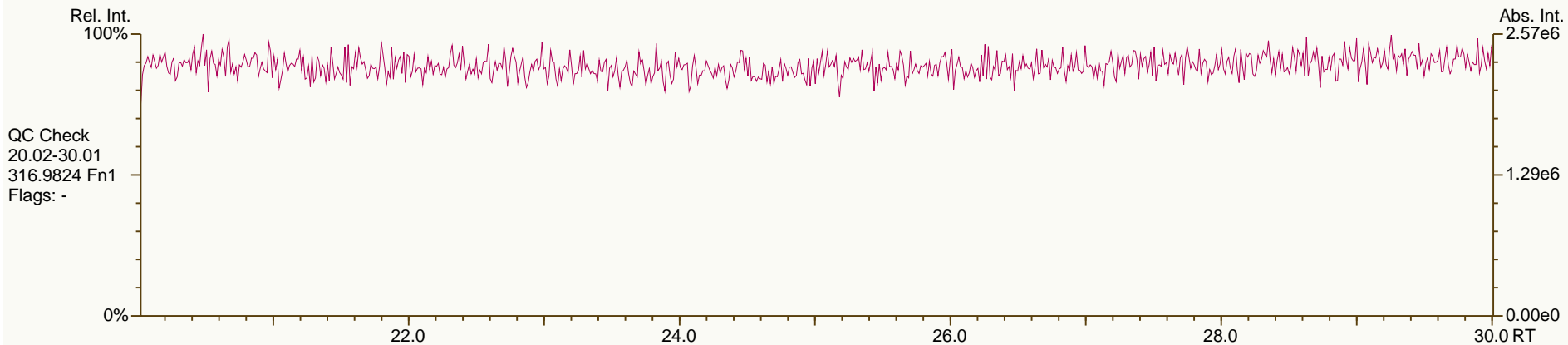
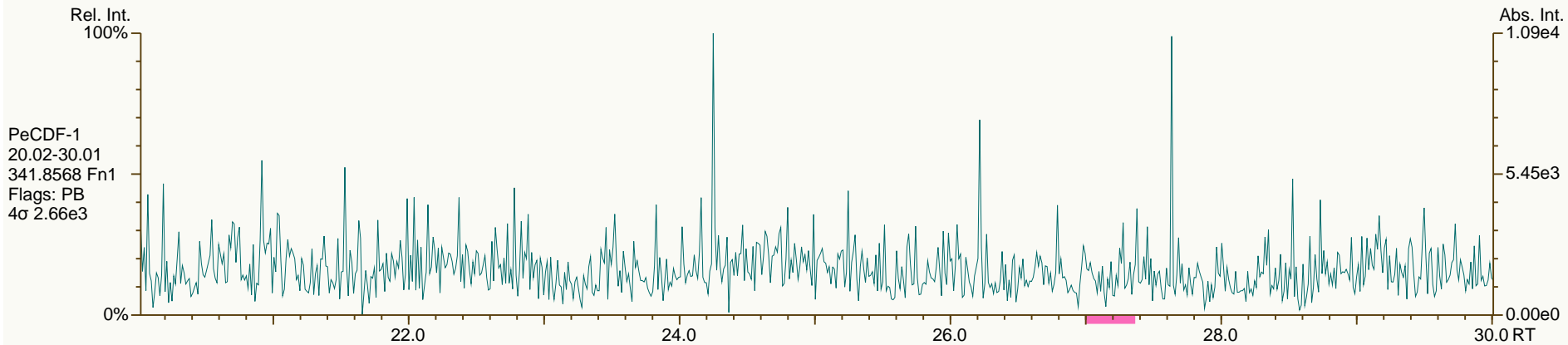
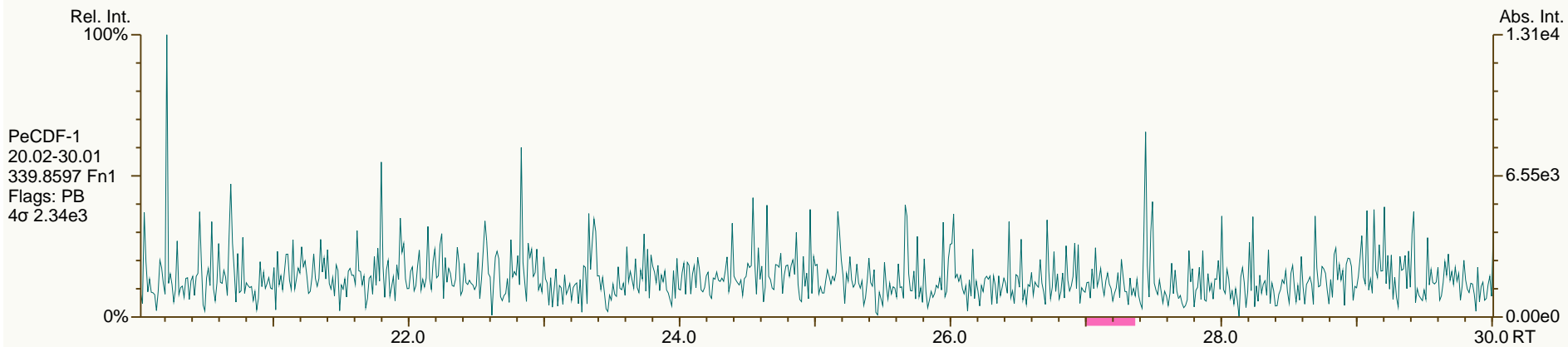
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SGS-AP ID: CS3_131013_DF_PA
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Sample ID: 11012012A
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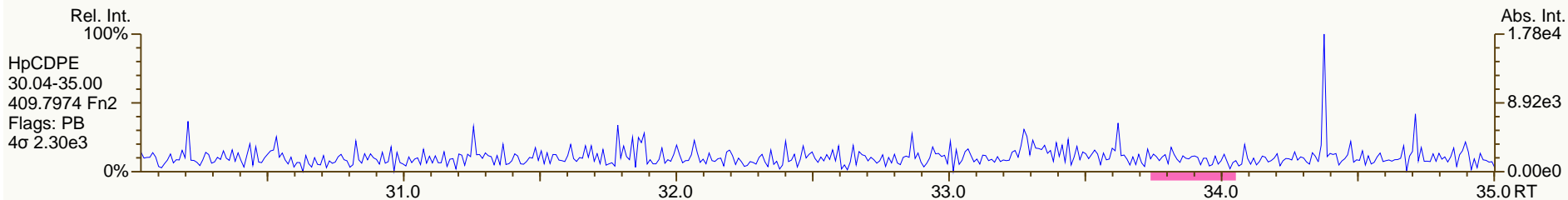
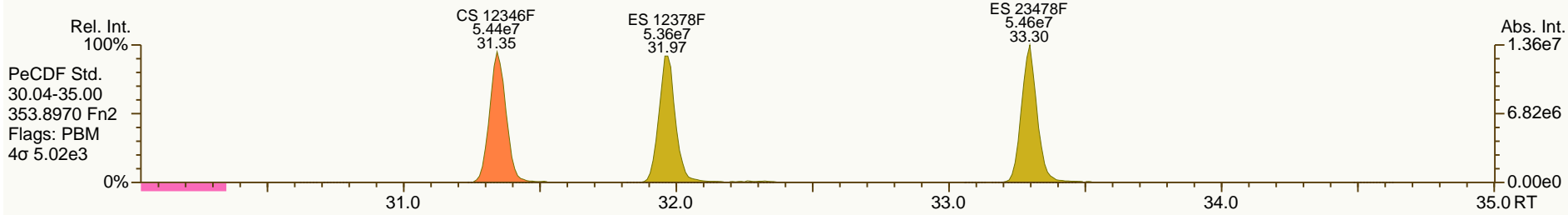
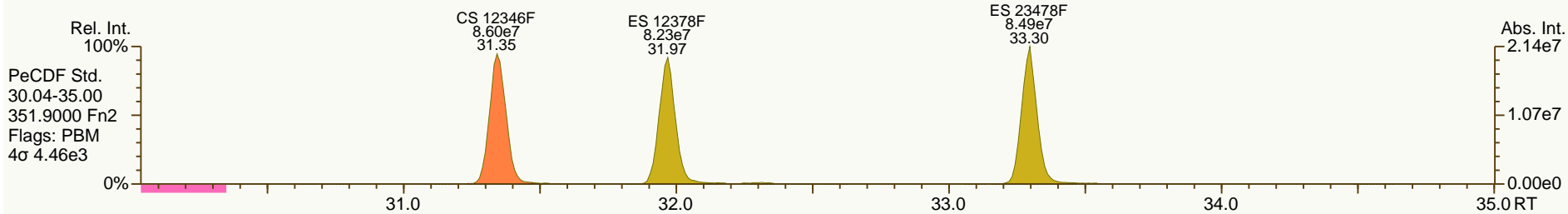
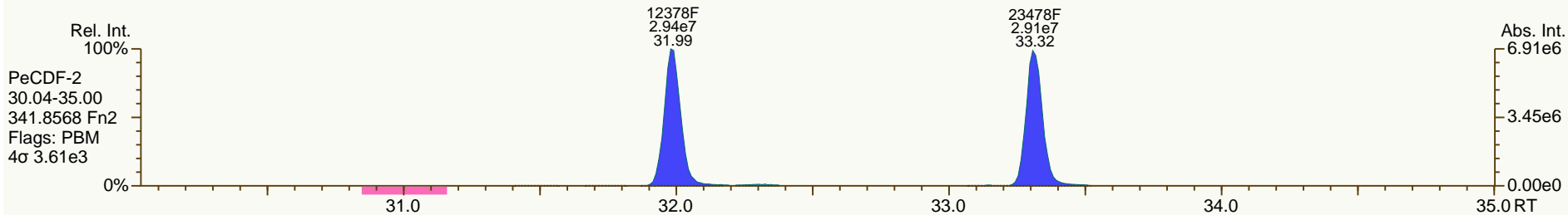
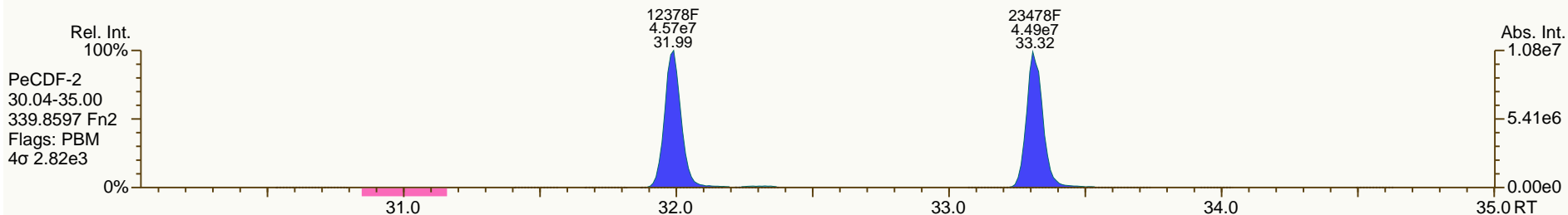
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SGS-AP ID: CS3_131013_DF_PA
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Sample ID: 11012012A
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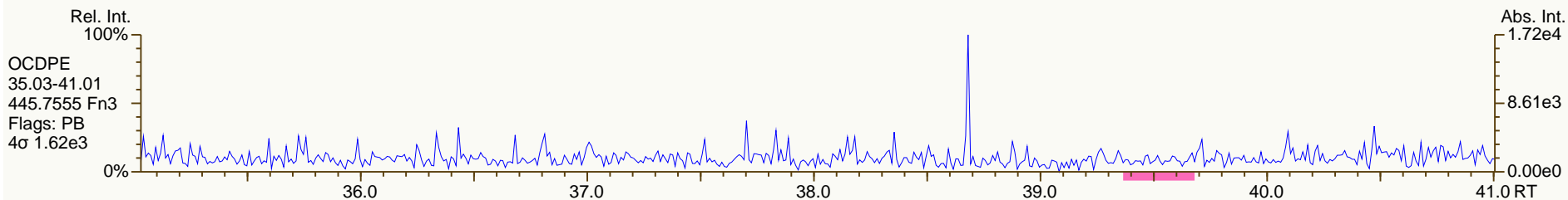
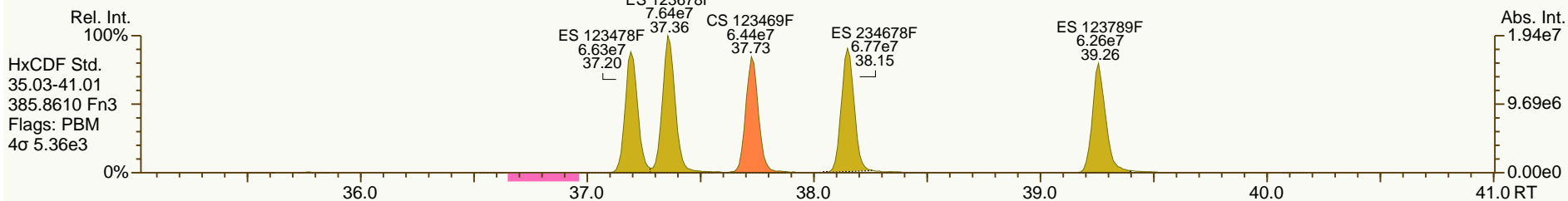
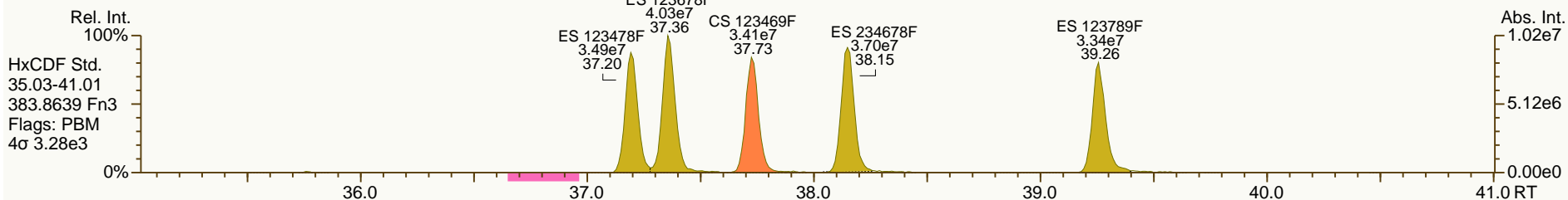
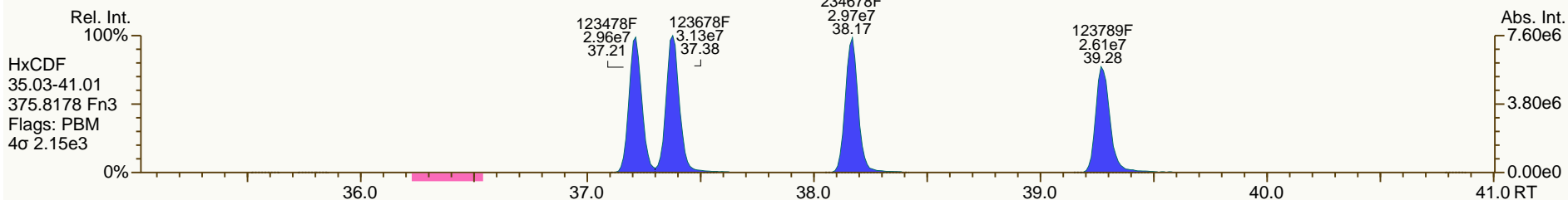
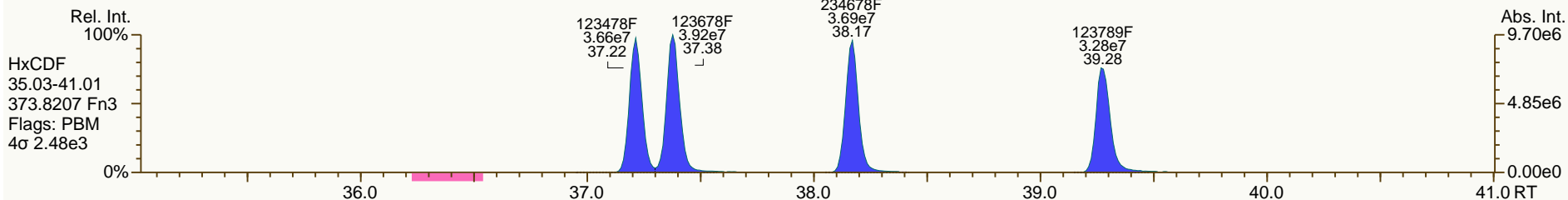
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SGS-AP ID: CS3_131013_DF_PA
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

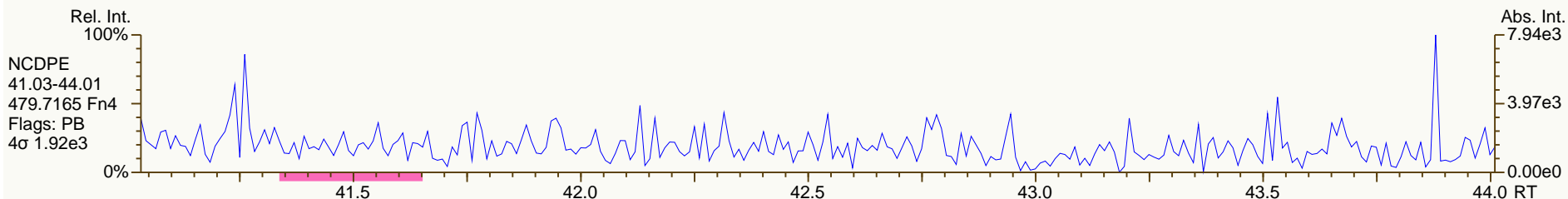
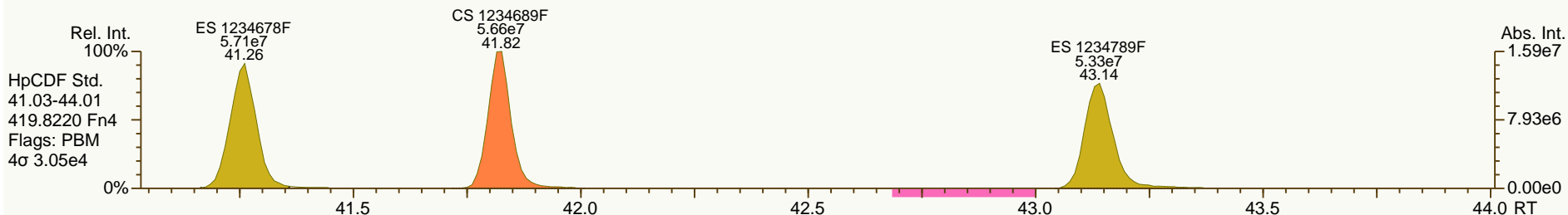
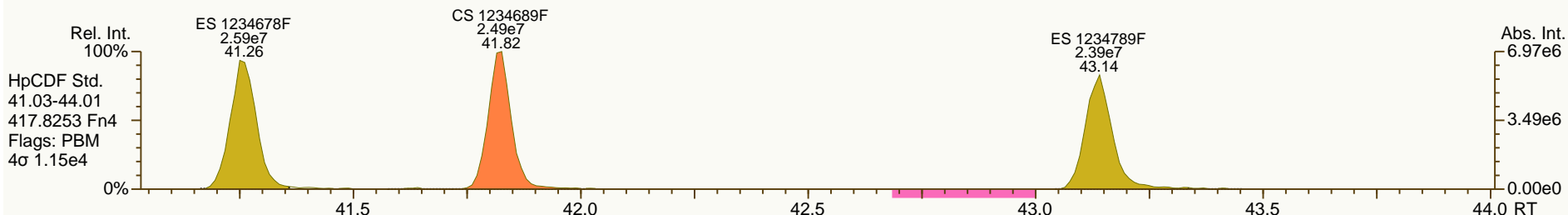
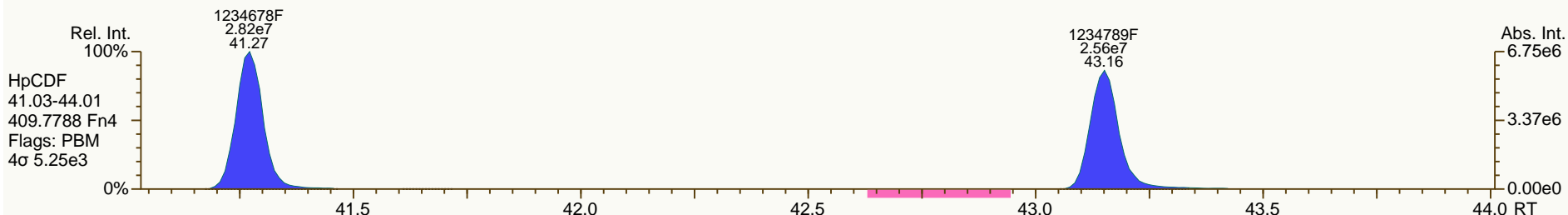
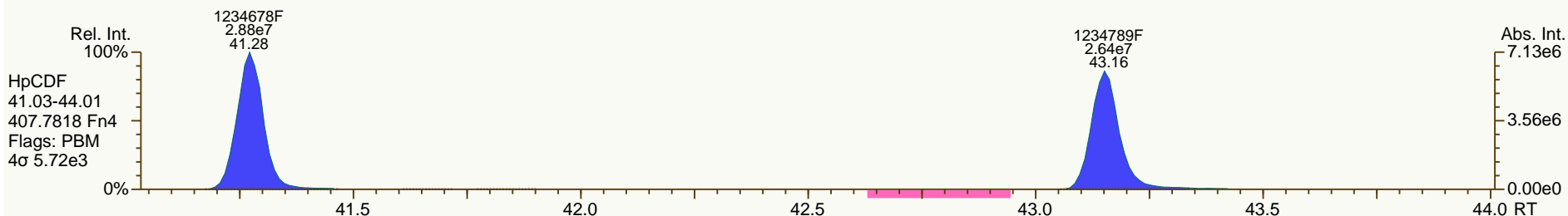
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SGS-AP ID: CS3_131013_DF_PA
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

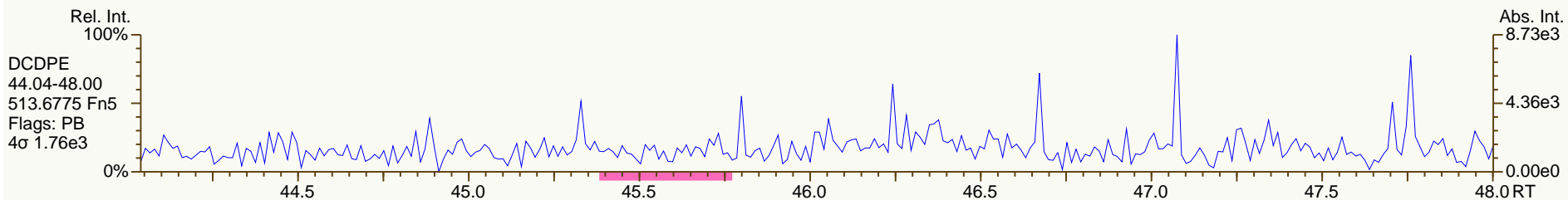
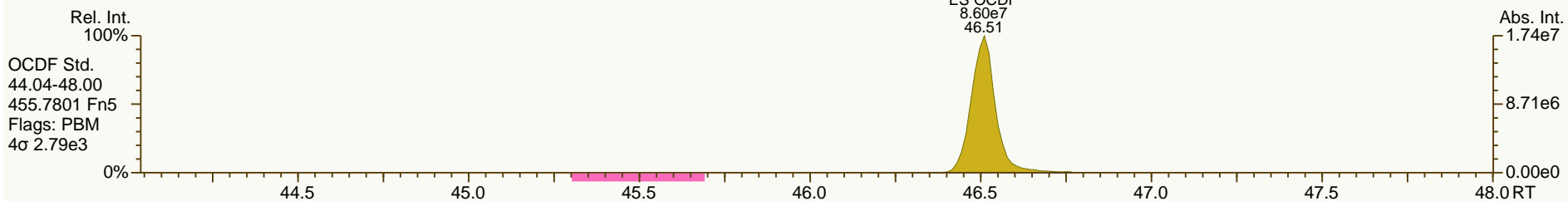
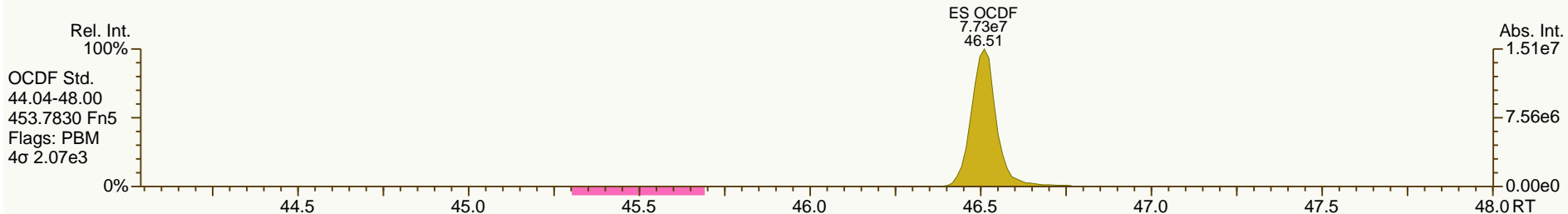
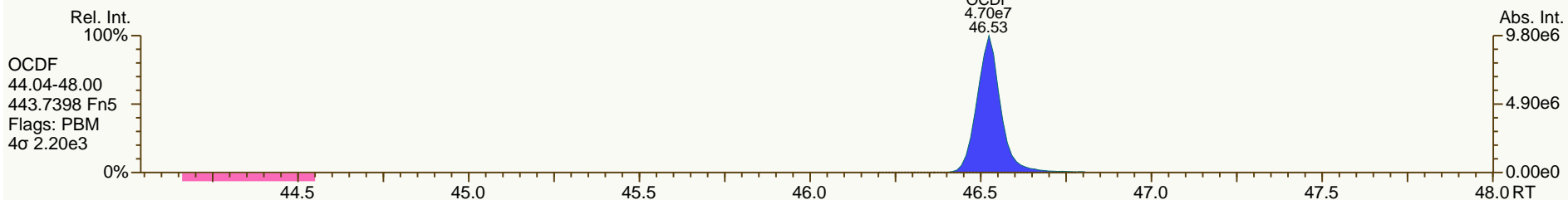
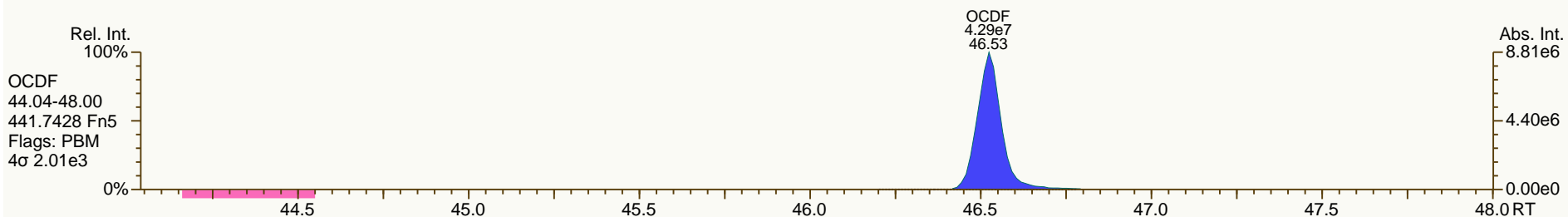
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SGS-AP ID: CS3_131013_DF_PA
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

Acq: 13-OCT-2013 22:19:57
 User: MDC Datafile: 131013P2-01



Dioxin/Furan QC Summary		Acq'd: 14 Oct 2013 08:50 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS3_131013_DF_PB		UTP: 15-Oct-2013 09:37 MDC			Checkcode: 287-125-HGZ		
Sample ID: 11012012A		Report: 15 Oct 2013 09:38 MC			Datafile: 131013P2-13		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.41	1.12E+07	0.80	Y	1.18	1.19	0%
12378-PeCDD	33.72	4.21E+07	1.59	Y	1.07	1.00	-7%
123478-HxCDD	38.38	3.92E+07	1.26	Y	1.19	1.13	-5%
123678-HxCDD	38.51	4.03E+07	1.29	Y	1.19	1.15	-3%
123789-HxCDD	38.85	4.25E+07	1.27	Y	1.12	1.11	-1%
1234678-HpCDD	42.55	3.75E+07	1.05	Y	1.08	1.05	-3%
OCDD	46.28	5.94E+07	0.92	Y	1.14	1.13	-1%
2378-TCDF	26.42	1.65E+07	0.78	Y	1.10	1.11	1%
12378-PeCDF	31.98	7.15E+07	1.54	Y	1.17	1.09	-6%
23478-PeCDF	33.30	7.09E+07	1.54	Y	1.14	1.06	-8%
123478-HxCDF	37.20	6.44E+07	1.27	Y	1.34	1.31	-2%
123678-HxCDF	37.37	6.67E+07	1.26	Y	1.23	1.18	-4%
234678-HxCDF	38.16	6.50E+07	1.27	Y	1.26	1.24	-2%
123789-HxCDF	39.27	5.70E+07	1.27	Y	1.23	1.21	-2%
1234678-HpCDF	41.27	5.58E+07	1.01	Y	1.42	1.40	-2%
1234789-HpCDF	43.15	4.98E+07	1.03	Y	1.39	1.36	-2%
OCDF	46.52	8.11E+07	0.90	Y	1.11	1.09	-1%
ES 2378-TCDD	27.39	9.44E+07	0.79	Y	1.02	1.02	0%
ES 12378-PeCDD	33.70	8.40E+07	1.61	Y	0.92	0.91	-1%
ES 123478-HxCDD	38.36	6.92E+07	1.20	Y	1.02	0.94	-8%
ES 123678-HxCDD	38.49	6.99E+07	1.20	Y	1.01	0.95	-6%
ES 123789-HxCDD	38.83	7.67E+07	1.21	Y	1.14	1.04	-8%
ES 1234678-HpCDD	42.54	7.13E+07	1.05	Y	1.02	0.97	-5%
ES OCDD	46.26	1.05E+08	0.89	Y	0.72	0.71	-1%
ES 2378-TCDF	26.39	1.49E+08	0.73	Y	1.01	1.01	0%
ES 12378-PeCDF	31.96	1.31E+08	1.56	Y	0.89	0.89	0%
ES 23478-PeCDF	33.29	1.34E+08	1.56	Y	0.91	0.91	1%
ES 123478-HxCDF	37.18	9.84E+07	0.53	Y	1.53	1.34	-12%
ES 123678-HxCDF	37.35	1.13E+08	0.53	Y	1.73	1.54	-11%
ES 234678-HxCDF	38.14	1.05E+08	0.54	Y	1.61	1.43	-11%
ES 123789-HxCDF	39.26	9.39E+07	0.54	Y	1.39	1.28	-8%
ES 1234678-HpCDF	41.25	8.00E+07	0.45	Y	1.20	1.09	-9%
ES 1234789-HpCDF	43.14	7.31E+07	0.45	Y	1.07	1.00	-7%
ES OCDF	46.51	1.49E+08	0.93	Y	1.04	1.01	-3%

Dioxin/Furan QC Summary		Acq'd: 14 Oct 2013 08:50 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS3_131013_DF_PB		UTP: 15-Oct-2013 09:37 MDC			Checkcode: 287-125		
Sample ID: 11012012A		Report: 15 Oct 2013 09:38 MC			Datafile: 131013P2-13		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
JS 1234-TCDD	26.63	9.22E+07	0.79	Y	-	-	-
JS 1234-TCDF	24.85	1.47E+08	0.74	Y	-	-	-
JS 123467-HxCDD	38.71	3.67E+07	1.18	Y	-	-	-
CS 37C1-2378-TCDD	27.41	1.09E+07	n/a	-	1.13	1.18	5%
CS 12347-PeCDD	33.10	8.35E+07	1.59	Y	0.88	0.91	3%
CS 12346-PeCDF	31.33	1.35E+08	1.55	Y	0.90	0.92	2%
CS 123469-HxCDF	37.72	9.54E+07	0.54	Y	1.40	1.30	-7%
CS 1234689-HpCDF	41.81	7.80E+07	0.45	Y	1.09	1.06	-3%
SS 37C1-2378-TCDD	27.41	1.09E+07	n/a	-	1.11	1.16	4%
SS 12347-PeCDD	33.10	8.35E+07	1.59	Y	0.96	0.99	4%
SS 12346-PeCDF	31.33	1.35E+08	1.55	Y	1.02	1.03	1%
SS 123469-HxCDF	37.72	9.54E+07	0.54	Y	0.81	0.85	4%
SS 1234689-HpCDF	41.81	7.80E+07	0.45	Y	0.91	0.98	7%
AS 1368-TCDD	23.25	9.34E+07	0.79	Y	1.01	1.01	1%
AS 1368-TCDF	21.05	1.78E+08	0.74	Y	1.22	1.21	-1%
FS 1278-TCDD	27.77	1.13E+08	0.78	Y	1.18	1.20	2%
FS 12478-PeCDD	32.24	9.21E+07	1.61	Y	1.06	1.10	3%
FS 123468-HxCDD	37.11	9.11E+07	1.20	Y	1.26	1.32	4%
FS 1234679-HpCDD	41.63	8.36E+07	1.07	Y	1.12	1.17	4%
TS 1378-TCDD	25.50	1.03E+08	0.80	Y	1.11	1.09	-1%
OCDD-a	46.27	3.51E+06	2.59	Y	0.07	0.07	-1%
OCDF-a	46.52	4.73E+06	2.61	Y	0.06	0.06	0%

METHOD 1613B**PCDD/F CALIBRATION VERIFICATION****FORM 4A**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
 Instrument ID: MM1 GC Column ID: ZB-5ms
 VER Data Filename: 131013P2-13 Analysis Date: 14-OCT-2013 08:50:25

NATIVE ANALYTES	M/Z's FORMING RATIO	ION ABUND. RATIO	QC LIMITS	OK	CONC. FOUND	RANGE (ng/mL)	OK
2,3,7,8-TCDD	M/M+2	0.80	0.65 - 0.89	Y	10	7.8 - 12.9	Y
1,2,3,7,8-PeCDD	M+2/M+4	1.59	1.32 - 1.78	Y	46.6	39 - 65	Y
1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05 - 1.43	Y	47.5	39 - 64	Y
1,2,3,6,7,8-HxCDD	M+2/M+4	1.29	1.05 - 1.43	Y	48.4	39 - 64	Y
1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05 - 1.43	Y	49.6	41 - 61	Y
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88 - 1.20	Y	48.5	43 - 58	Y
OCDD	M+2/M+4	0.92	0.76 - 1.02	Y	99.2	79 - 126	Y
2,3,7,8-TCDF	M/M+2	0.78	0.65 - 0.89	Y	10.1	8.4 - 12	Y
1,2,3,7,8-PeCDF	M+2/M+4	1.54	1.32 - 1.78	Y	46.8	41 - 60	Y
2,3,4,7,8-PeCDF	M+2/M+4	1.54	1.32 - 1.78	Y	46.1	41 - 61	Y
1,2,3,4,7,8-HxCDF	M+2/M+4	1.27	1.05 - 1.43	Y	48.9	45 - 56	Y
1,2,3,6,7,8-HxCDF	M+2/M+4	1.26	1.05 - 1.43	Y	48	44 - 57	Y
2,3,4,6,7,8-HxCDF	M+2/M+4	1.27	1.05 - 1.43	Y	49	44 - 57	Y
1,2,3,7,8,9-HxCDF	M+2/M+4	1.27	1.05 - 1.43	Y	49.2	45 - 56	Y
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.01	0.88 - 1.20	Y	49.1	45 - 55	Y
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.03	0.88 - 1.20	Y	49.1	43 - 58	Y
OCDF	M+2/M+4	0.90	0.76 - 1.02	Y	98.6	63 - 159	Y

See Table 9, Method 1613, for m/z specifications.

Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

Contract-required concentration range as specified in Table 6, Method 1613.

Processed: 15 Oct 2013 09:38 Analyst: MC

METHOD 1613B

PCDD/F CALIBRATION VERIFICATION

FORM 4B

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
 Instrument ID: MM1 GC Column ID: ZB-5ms
 VER Data Filename: 131013P2-13 Analysis Date: 14-OCT-2013 08:50:25

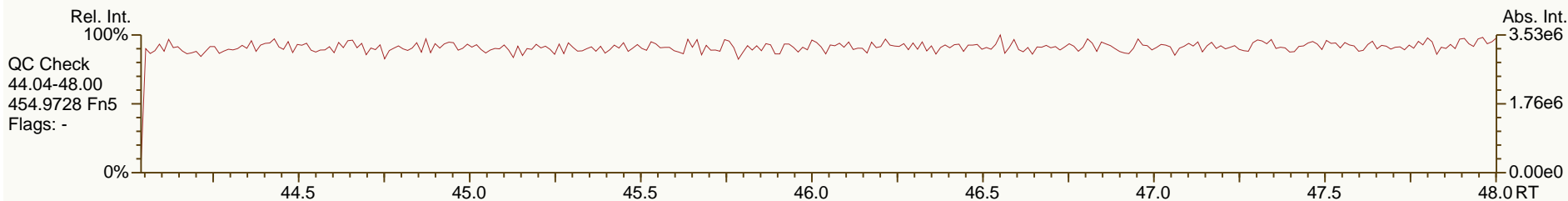
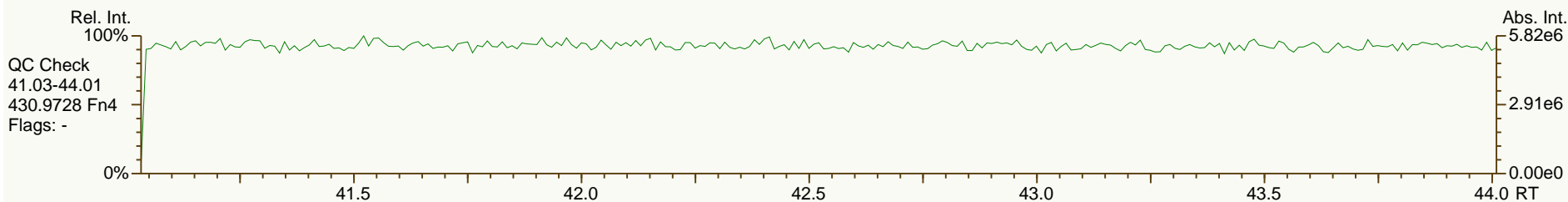
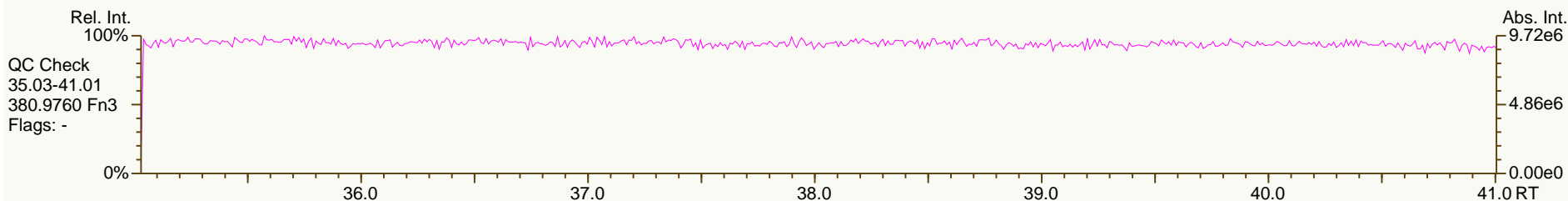
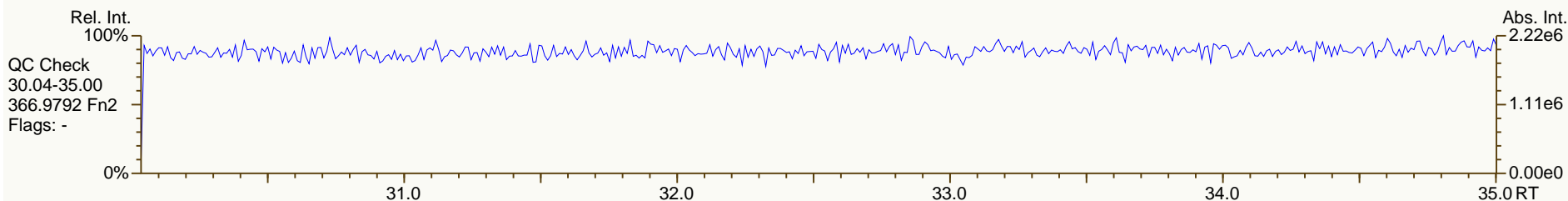
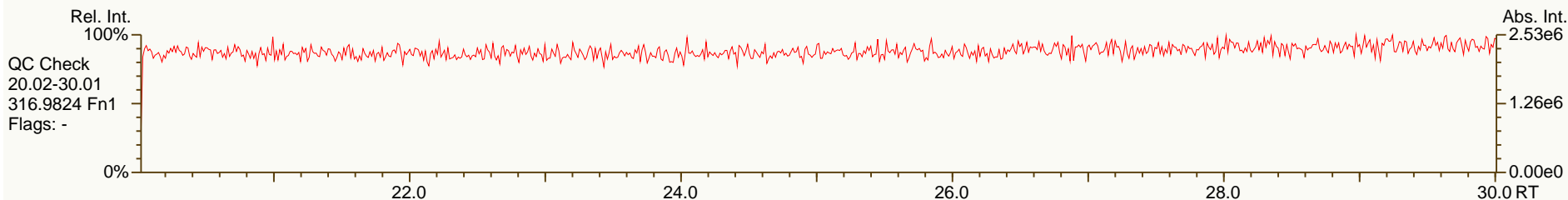
LABELED ANALYTES	M/Z's FORMING RATIO	ION ABUND. RATIO	QC LIMITS	OK	CONC. FOUND	RANGE (ng/mL)	OK
13C-2,3,7,8-TCDD	M/M+2	0.79	0.65 - 0.89	Y	100	82 - 121	Y
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.61	1.32 - 1.78	Y	99.1	62 - 160	Y
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.20	1.05 - 1.43	Y	92.2	85 - 117	Y
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.20	1.05 - 1.43	Y	94.4	85 - 118	Y
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.21	1.05 - 1.43	Y	91.6	85 - 118	Y
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88 - 1.20	Y	95	72 - 138	Y
13C-OCDD	M+2/M+4	0.89	0.76 - 1.02	Y	198	96 - 415	Y
13C-2,3,7,8-TCDF	M/M+2	0.73	0.65 - 0.89	Y	100	71 - 140	Y
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.56	1.32 - 1.78	Y	100	76 - 130	Y
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.56	1.32 - 1.78	Y	101	77 - 130	Y
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.53	0.43 - 0.59	Y	87.6	76 - 131	Y
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.53	0.43 - 0.59	Y	89.1	70 - 143	Y
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.54	0.43 - 0.59	Y	88.9	73 - 137	Y
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.54	0.43 - 0.59	Y	91.8	74 - 135	Y
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.45	0.37 - 0.51	Y	90.8	78 - 129	Y
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.45	0.37 - 0.51	Y	93	77 - 129	Y
13C-OCDF	M+2/M+4	0.93	0.76 - 1.02	Y	194	96 - 415	Y
CLEANUP STANDARDS							
37Cl-2,3,7,8-TCDD	n/a				10.5	7.9 - 12.7	Y
13C-1,2,3,4,7-PeCDD	M+2/M+4	1.59	1.32 - 1.78	Y	103	70 - 130	Y
13C-1,2,3,4,6-PeCDF	M+2/M+4	1.55	1.32 - 1.78	Y	102	70 - 130	Y
13C-1,2,3,4,6,9-HxCDF	M/M+2	0.54	0.43 - 0.59	Y	92.9	70 - 130	Y
13C-1,2,3,4,6,8,9-HpCDF	M/M+2	0.45	0.37 - 0.51	Y	97.3	70 - 130	Y

Processed: 15 Oct 2013 09:38 Analyst: MC

SGS-AP ID: CS3_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

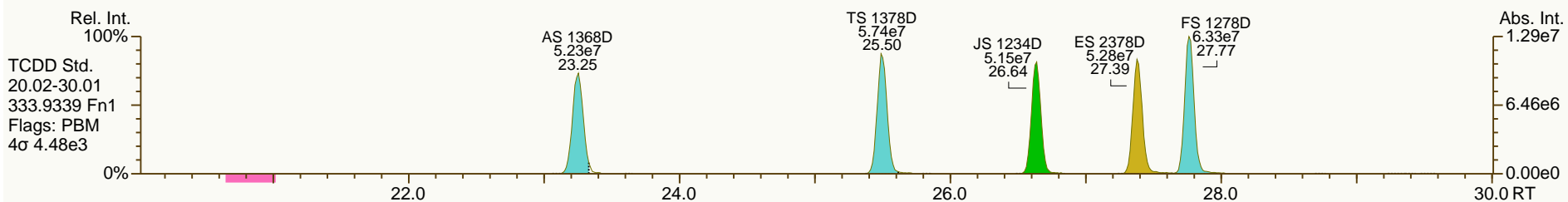
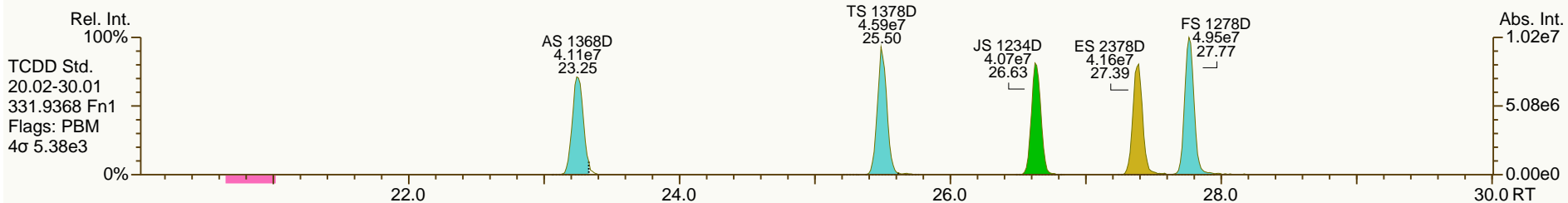
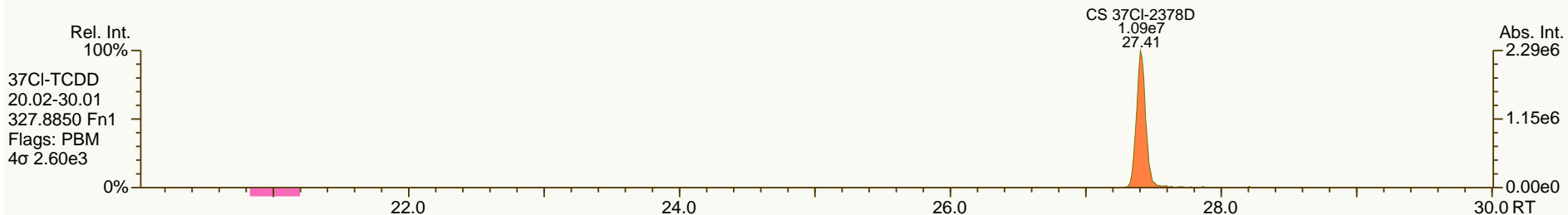
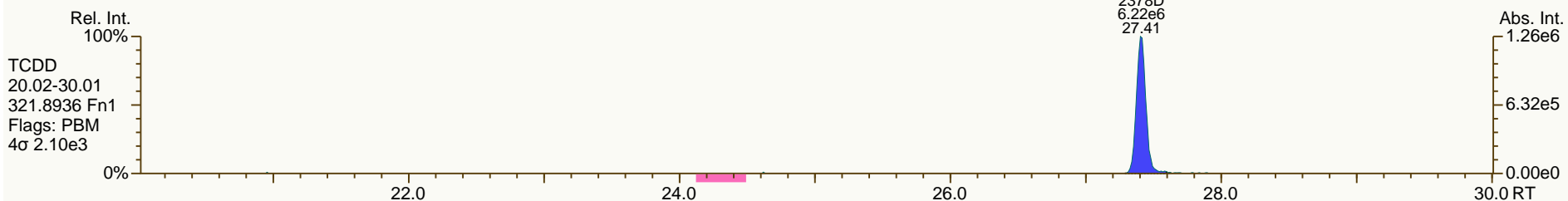
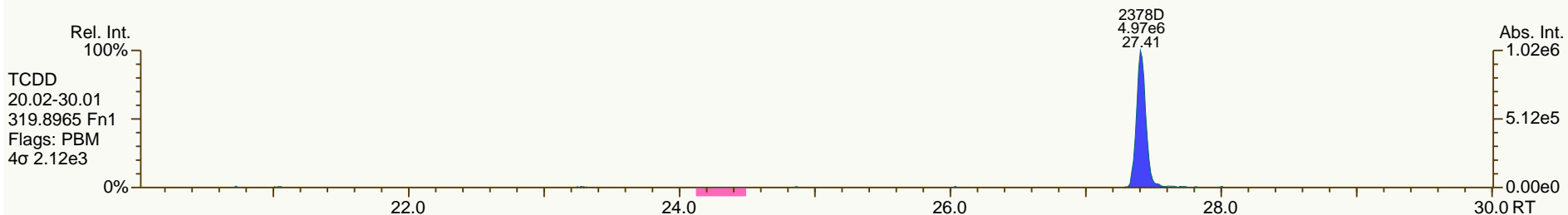
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SGS-AP ID: CS3_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
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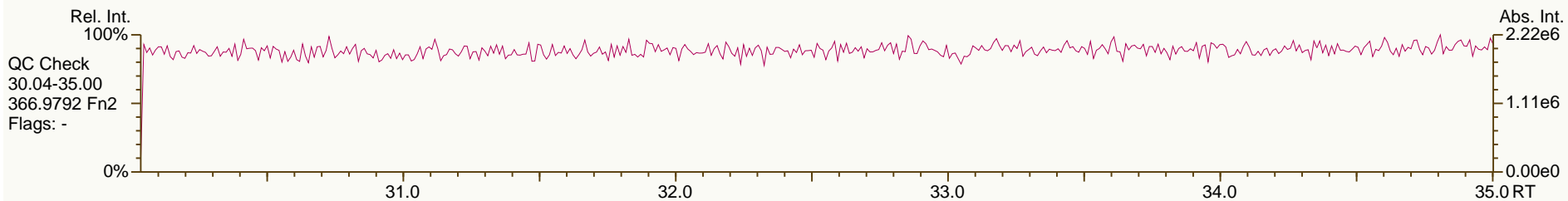
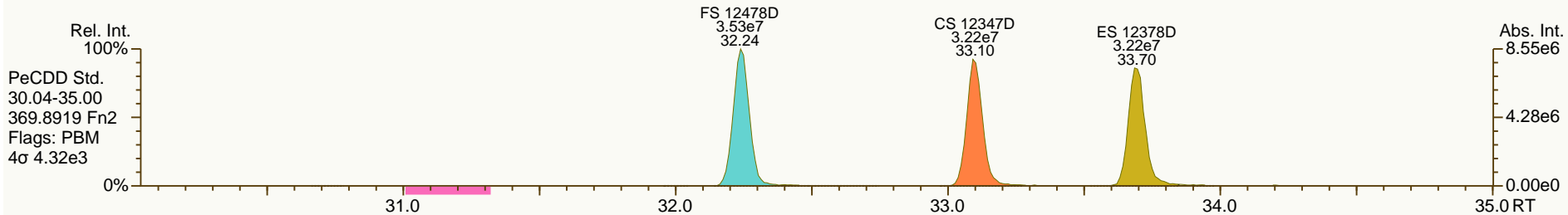
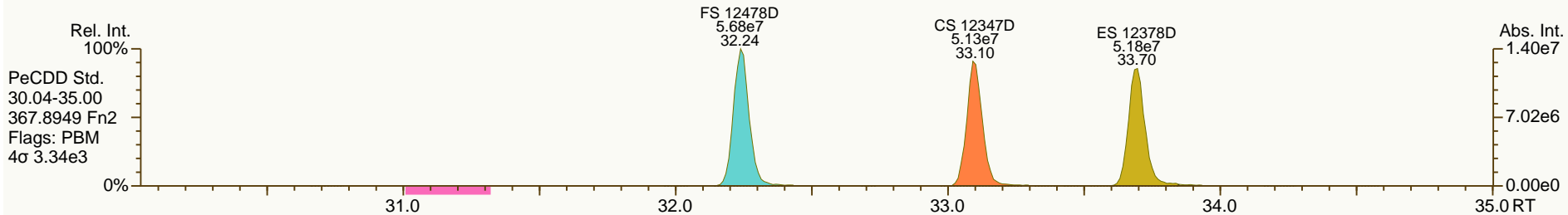
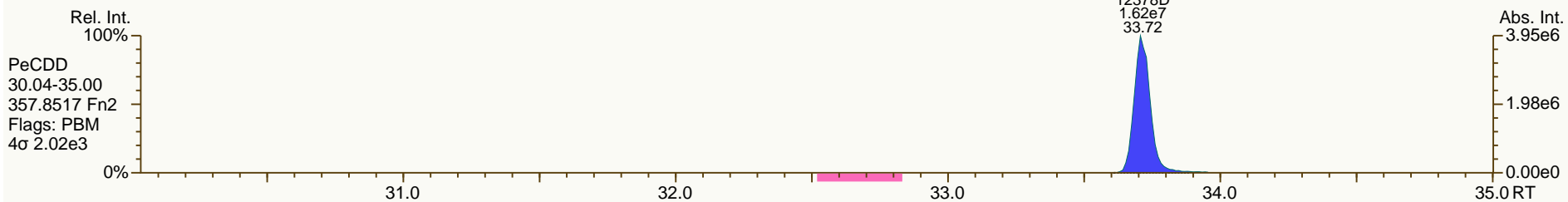
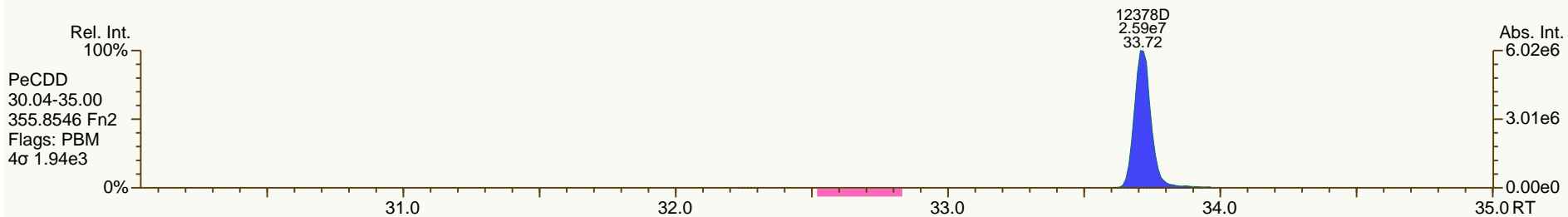
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SGS-AP ID: CS3_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

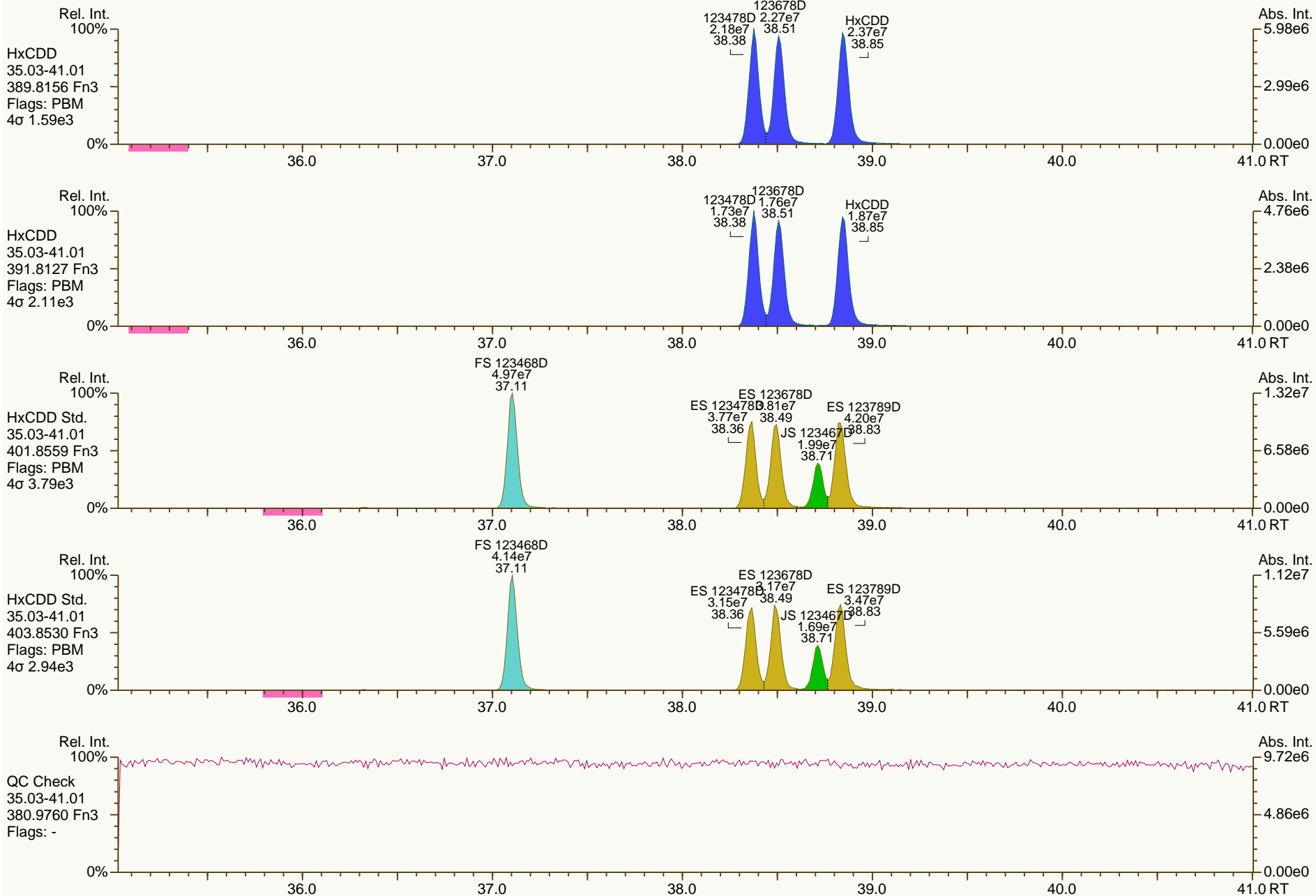
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SGS-AP ID: CS3_131013_DF_PB
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Sample ID: 11012012A
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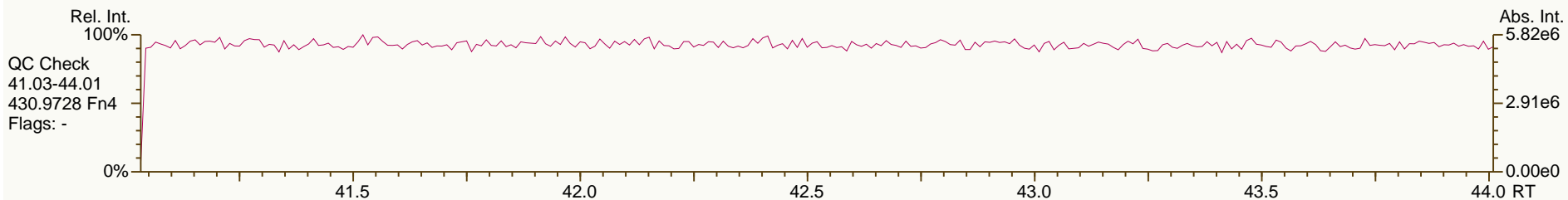
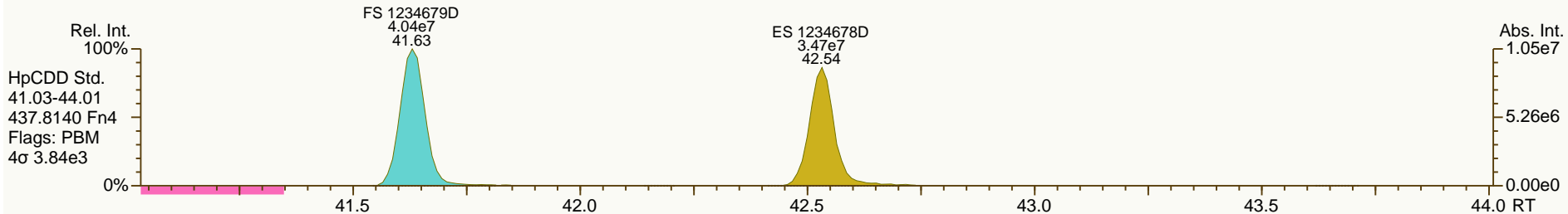
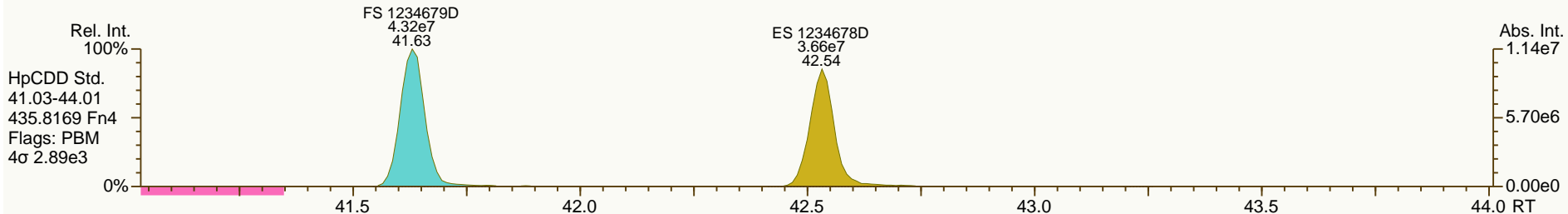
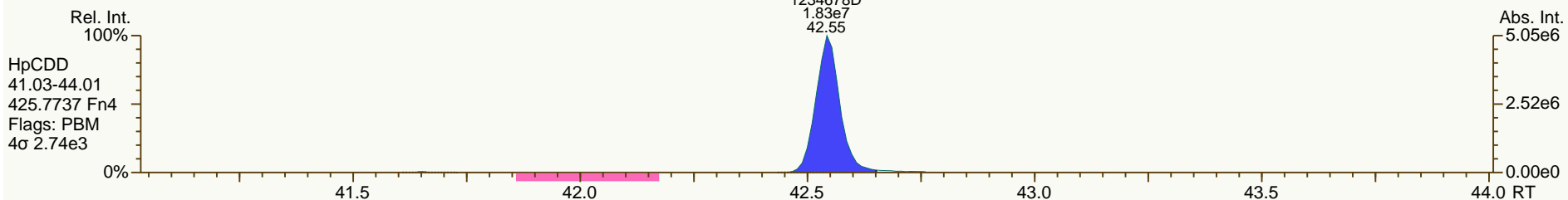
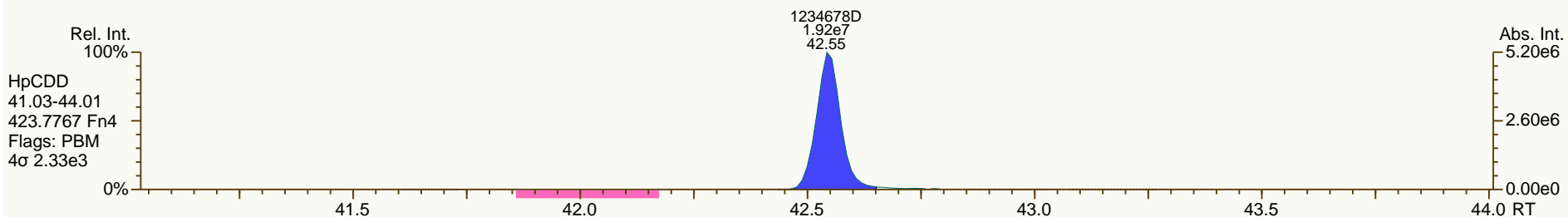
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SGS-AP ID: CS3_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

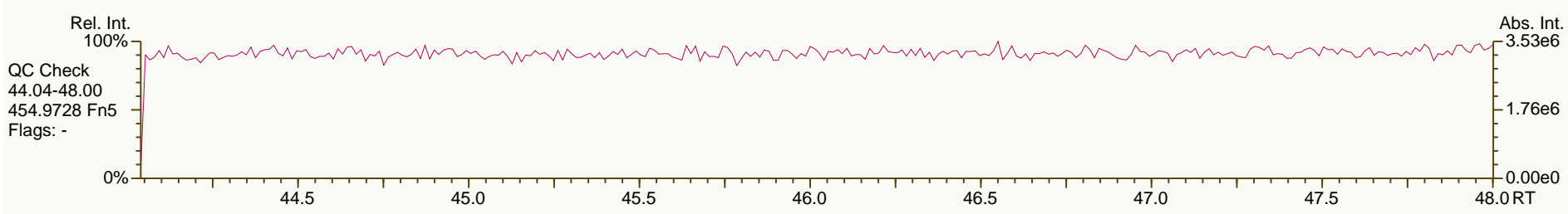
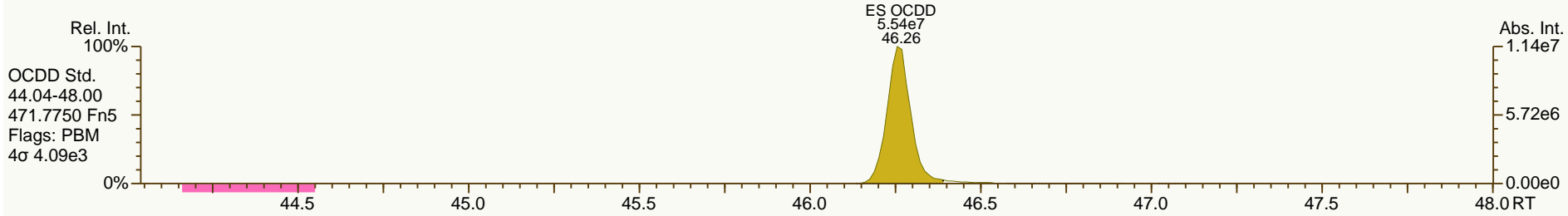
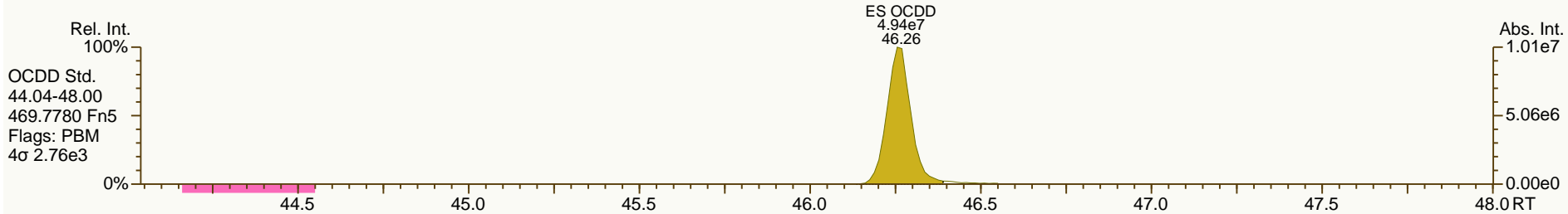
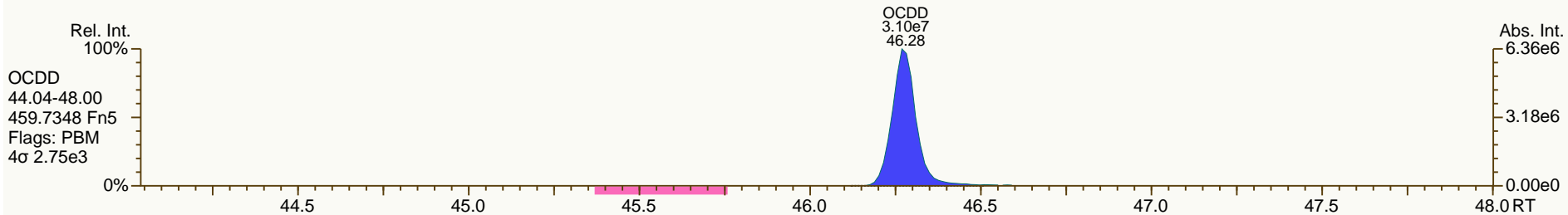
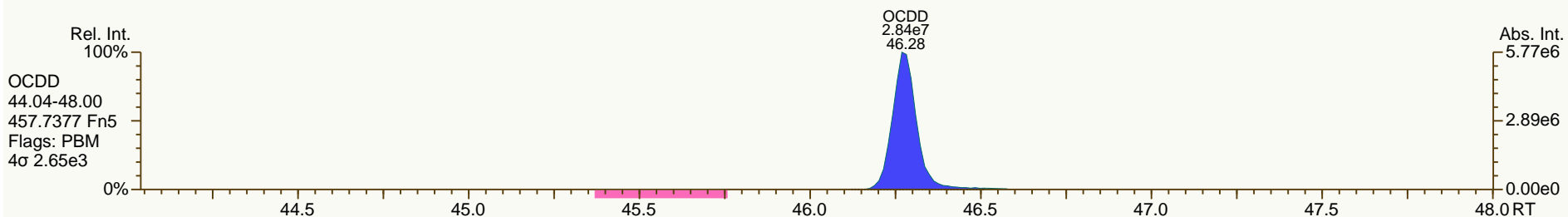
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SGS-AP ID: CS3_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

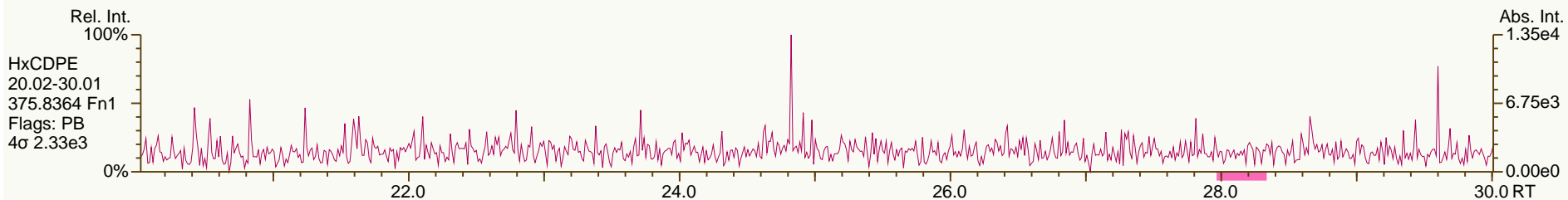
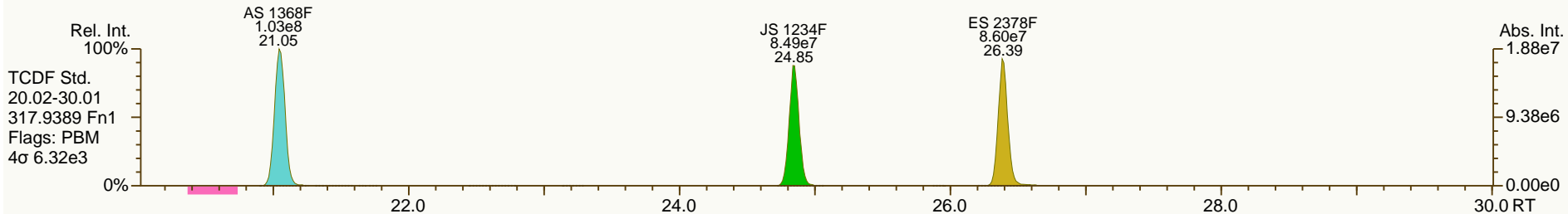
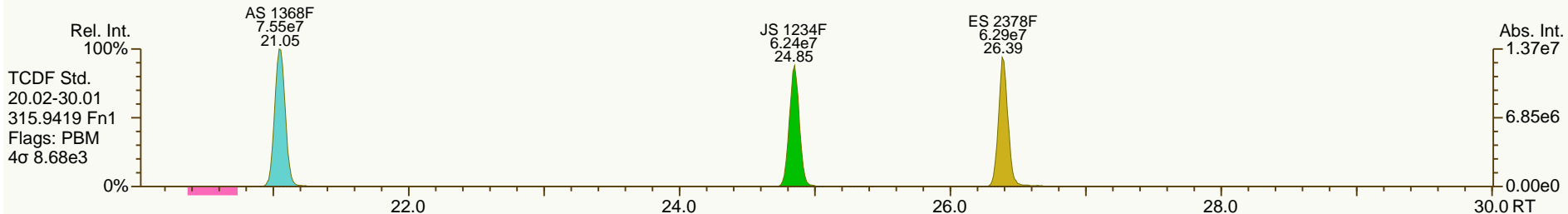
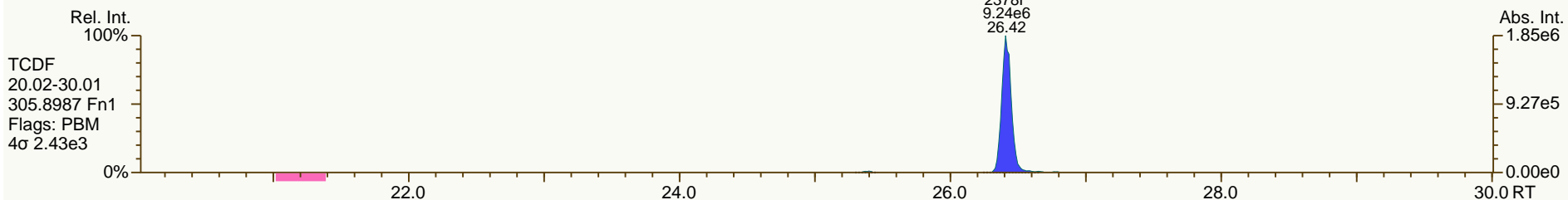
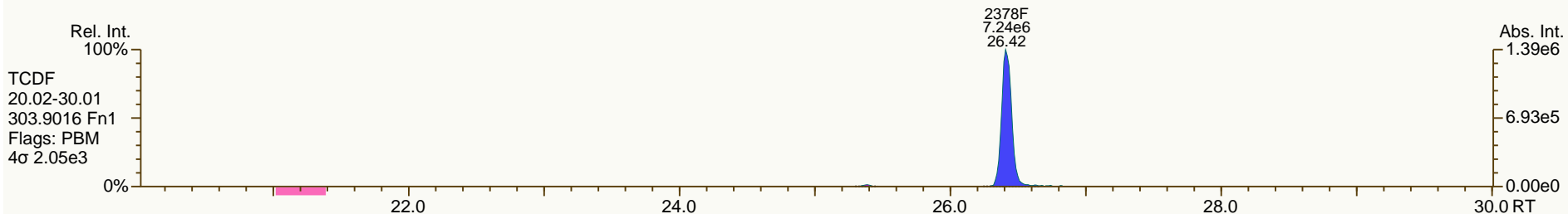
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SGS-AP ID: CS3_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

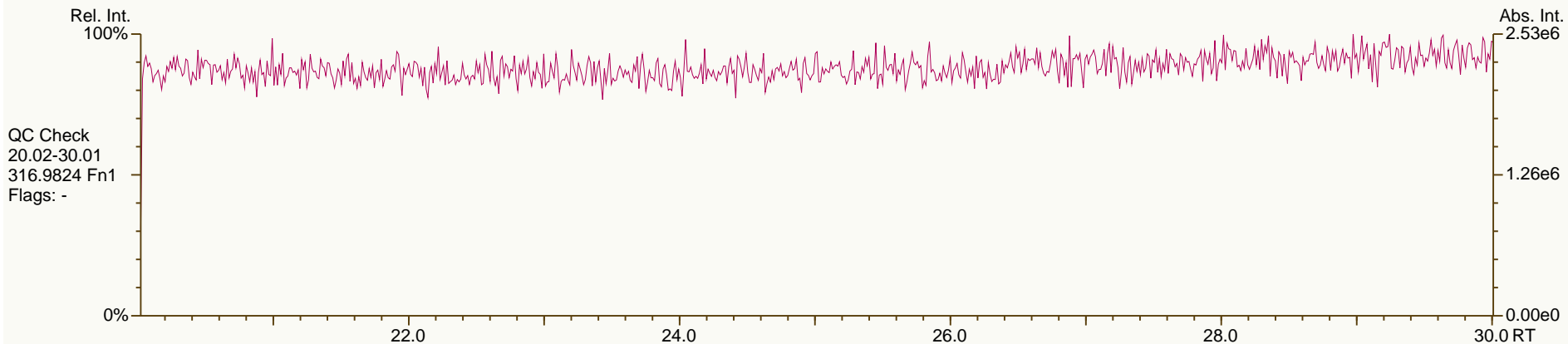
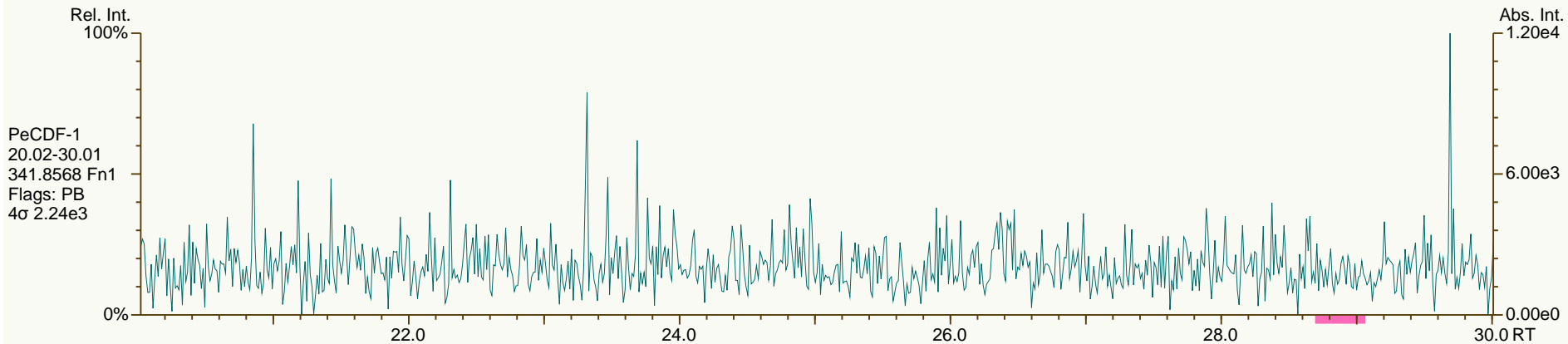
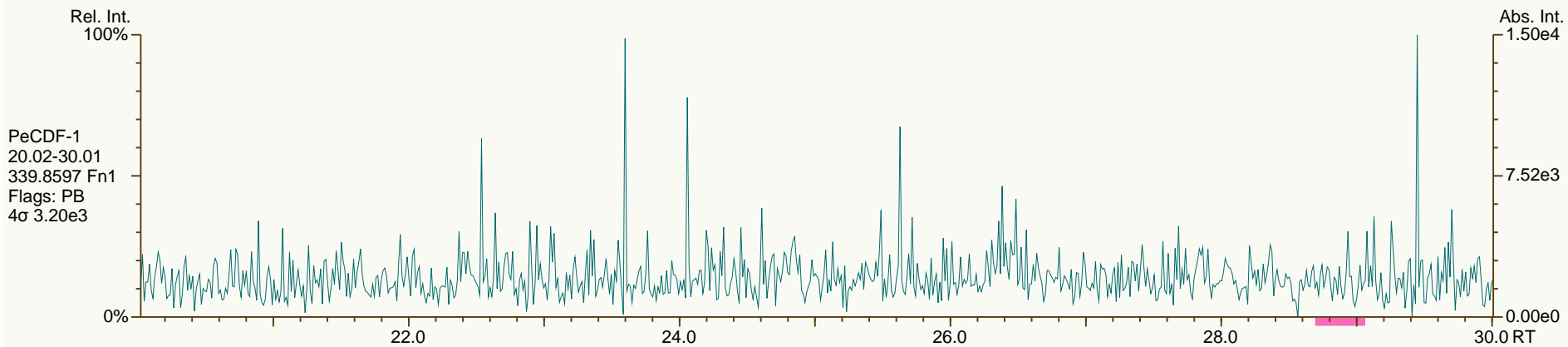
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SGS-AP ID: CS3_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

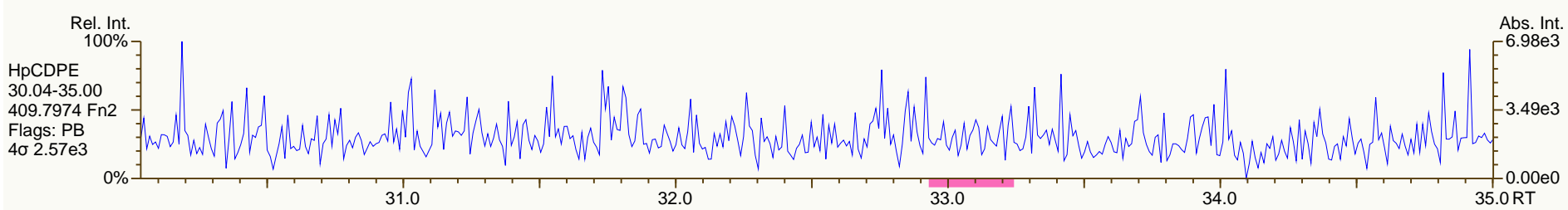
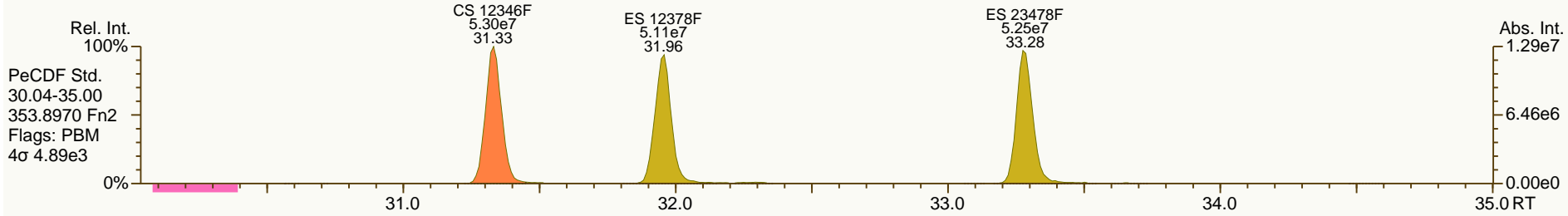
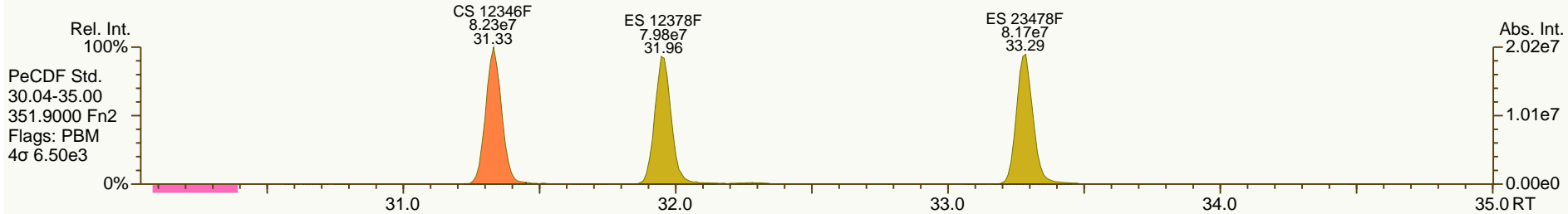
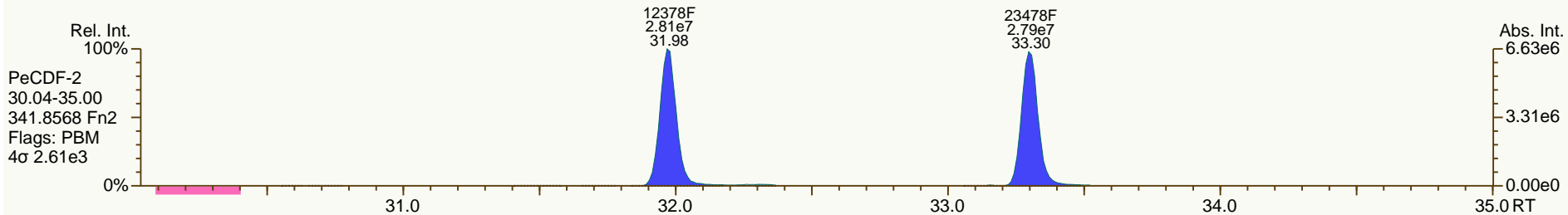
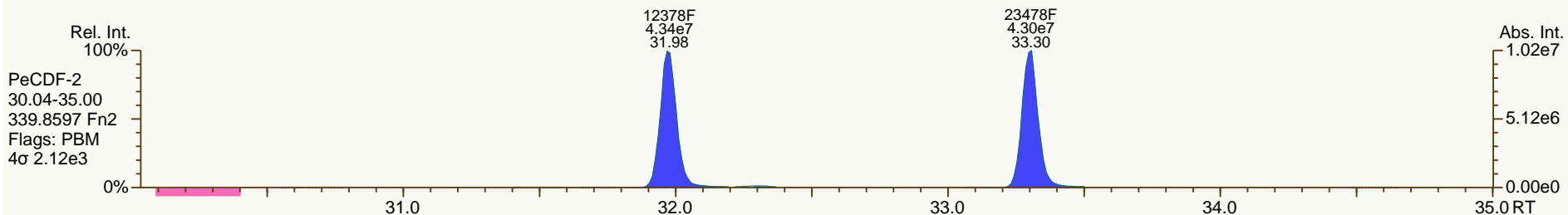
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SGS-AP ID: CS3_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

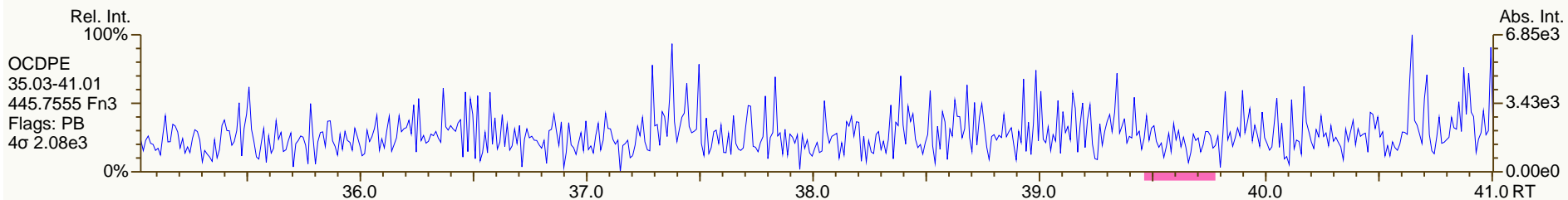
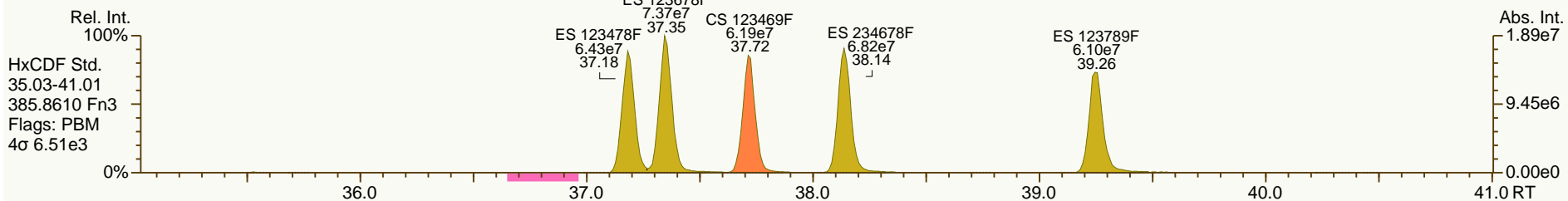
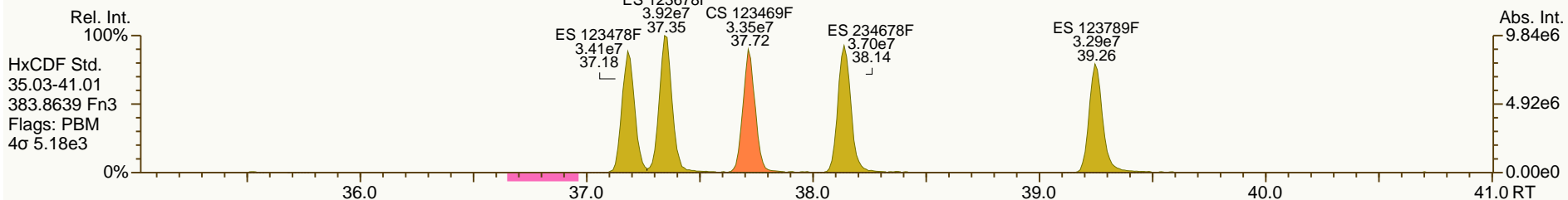
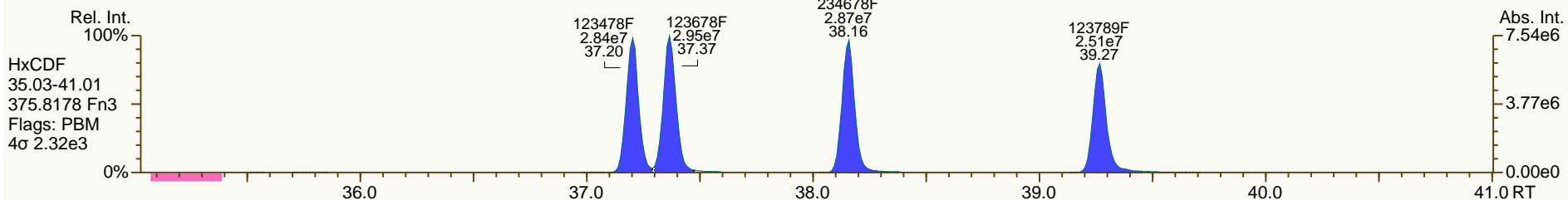
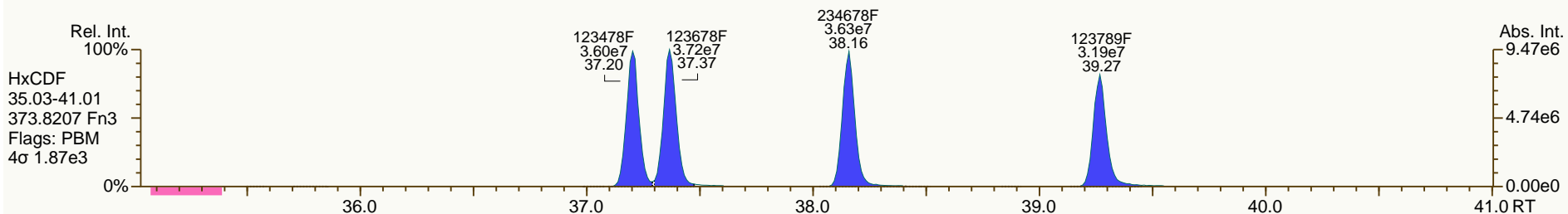
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SGS-AP ID: CS3_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

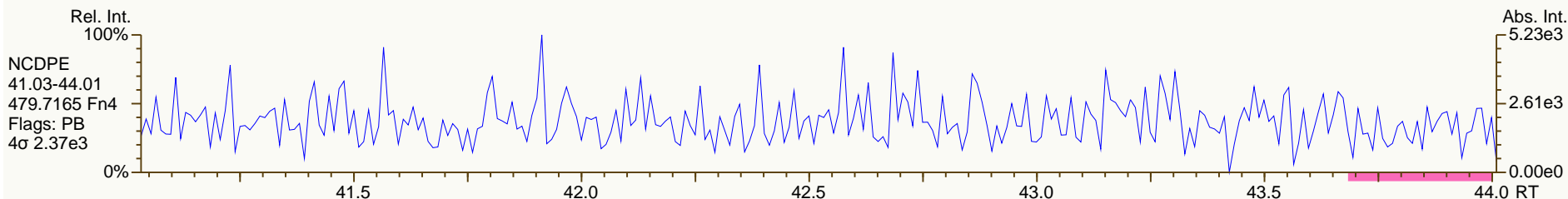
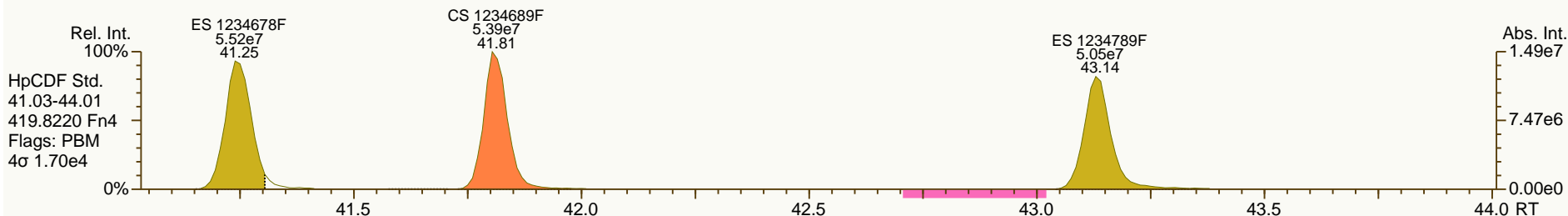
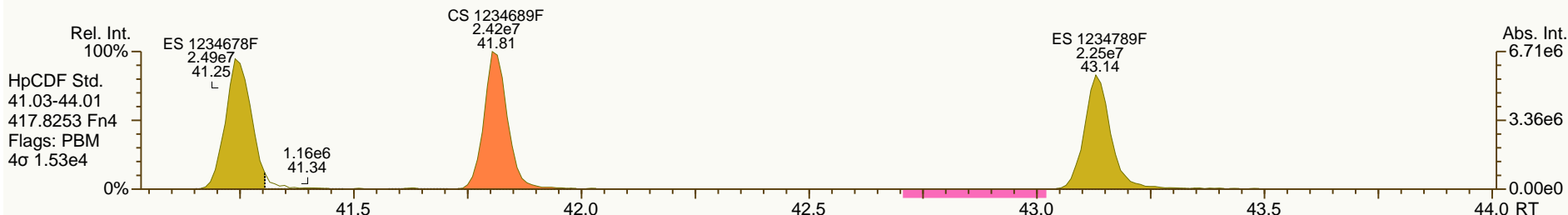
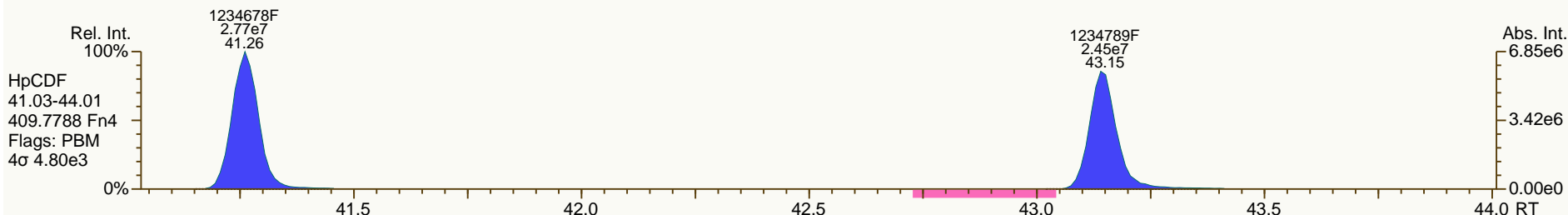
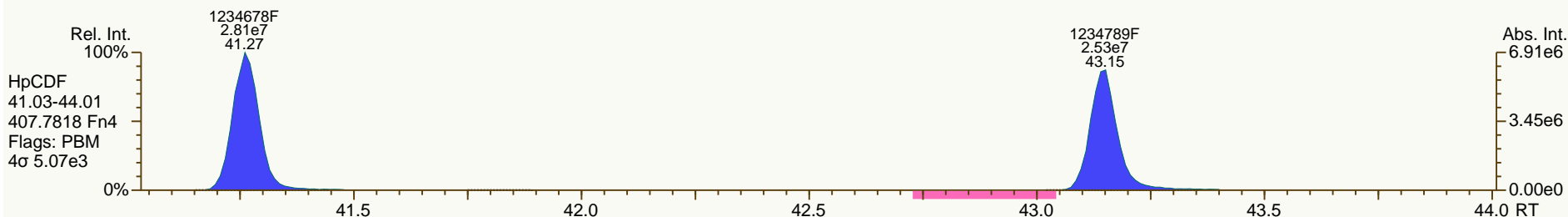
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SGS-AP ID: CS3_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

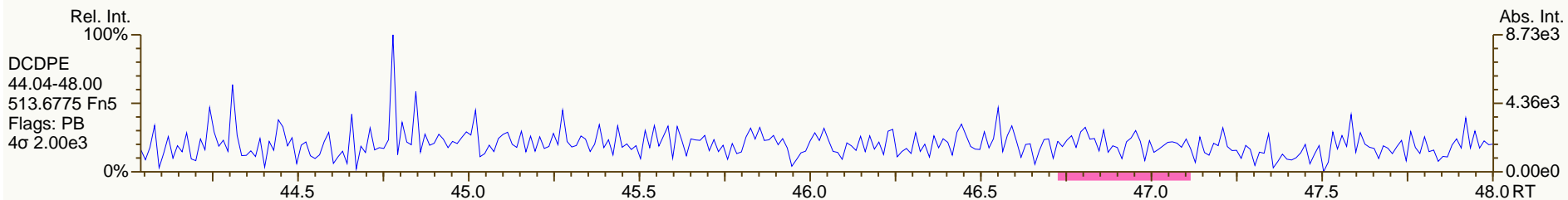
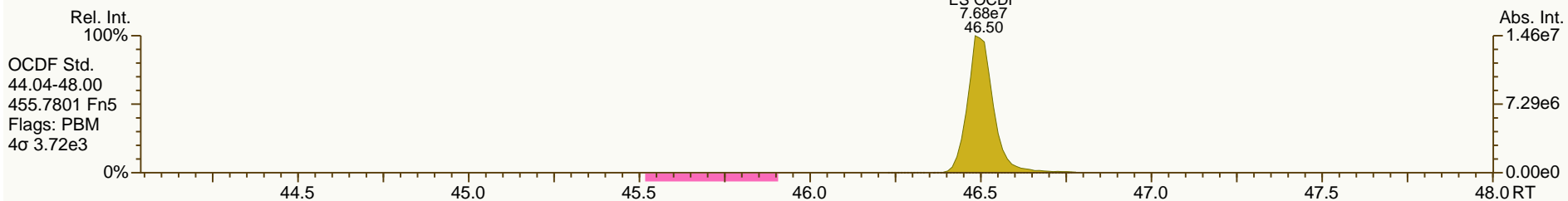
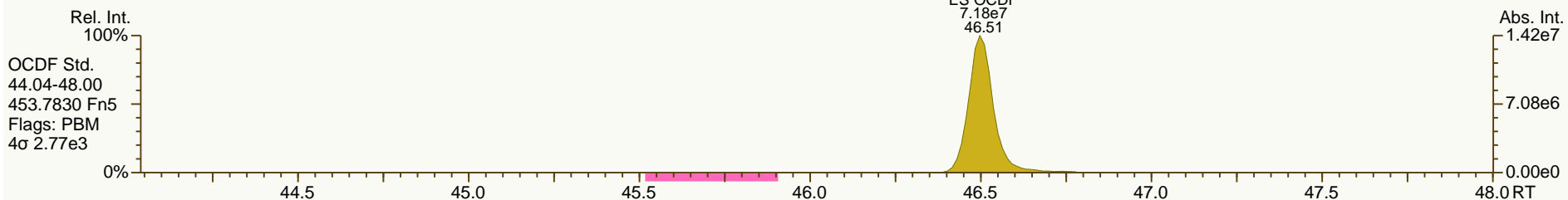
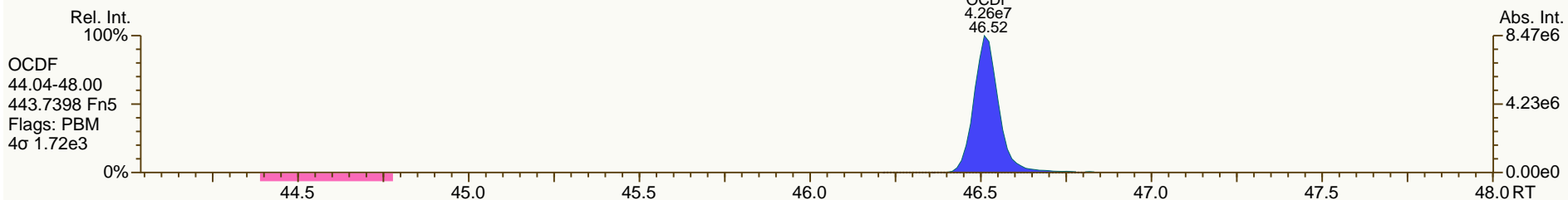
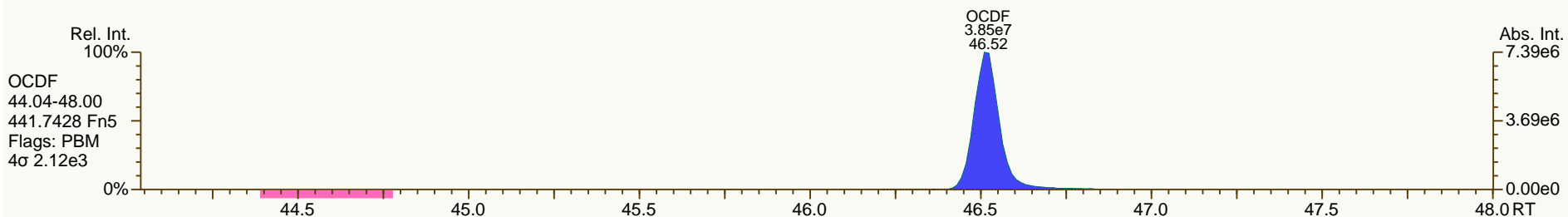
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SGS-AP ID: CS3_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 7

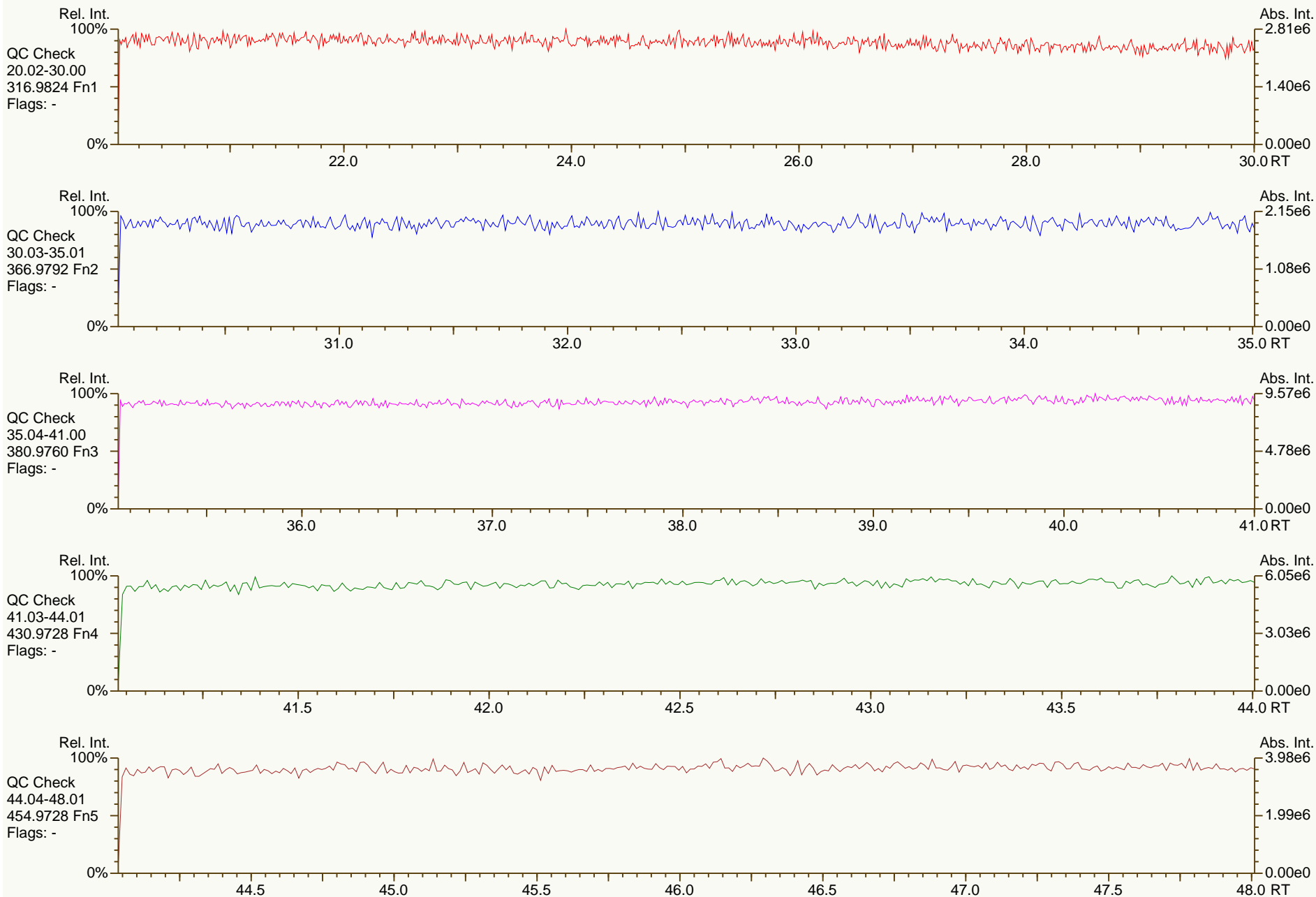
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SGS-AP ID: SBS_131013_DF_PB
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

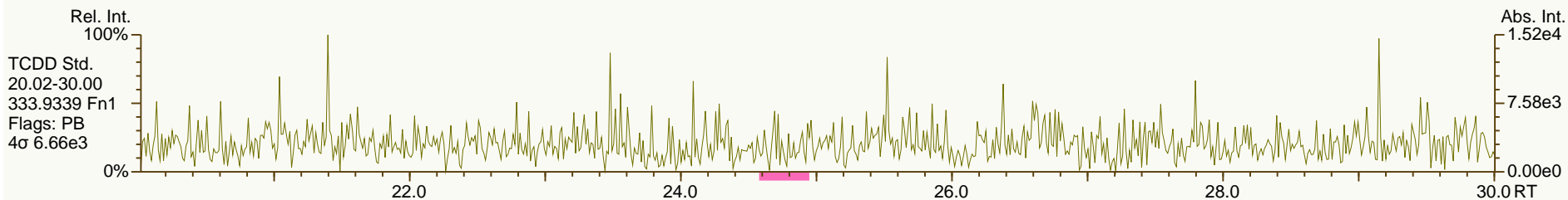
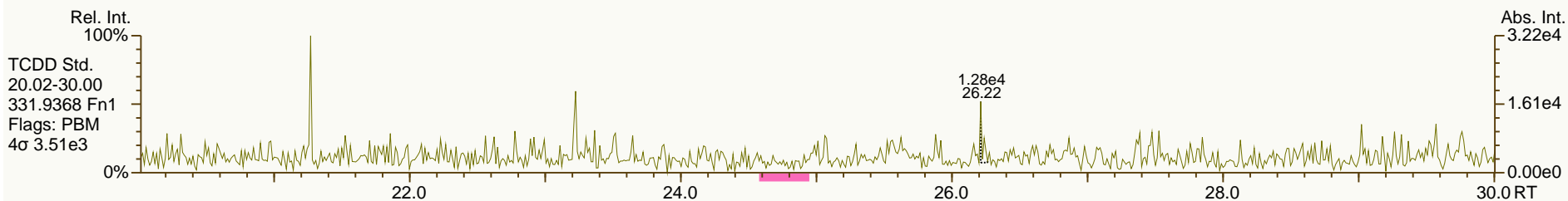
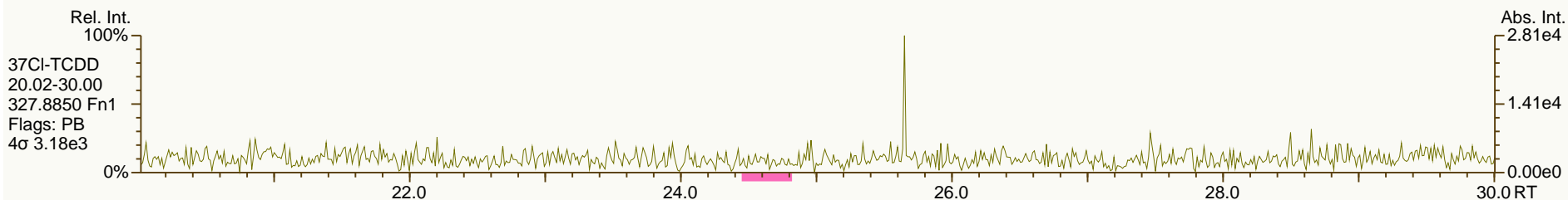
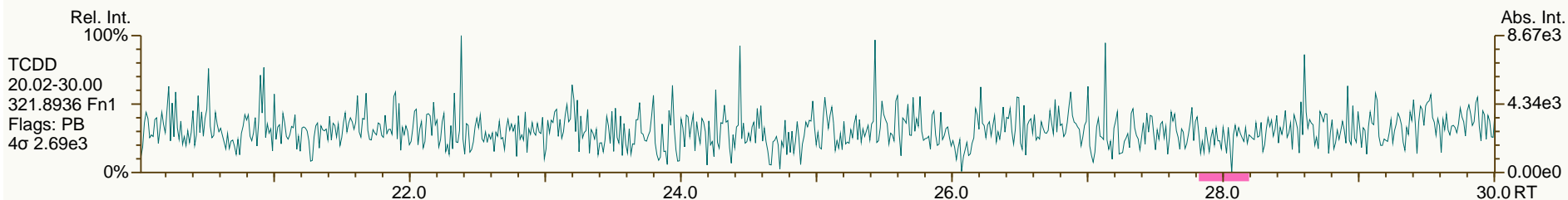
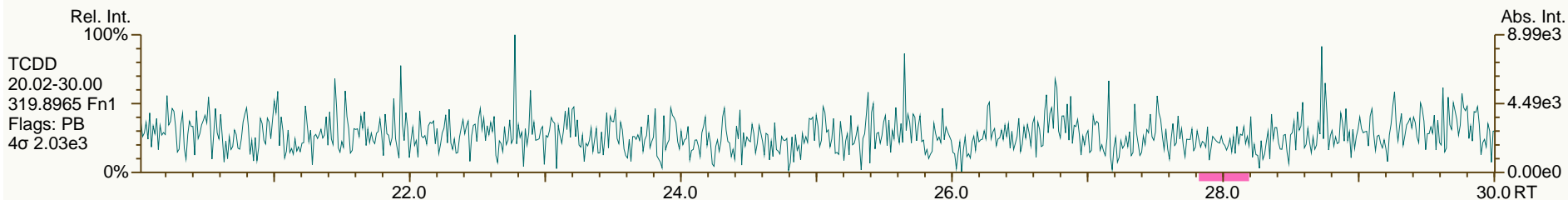
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SGS-AP ID: SBS_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

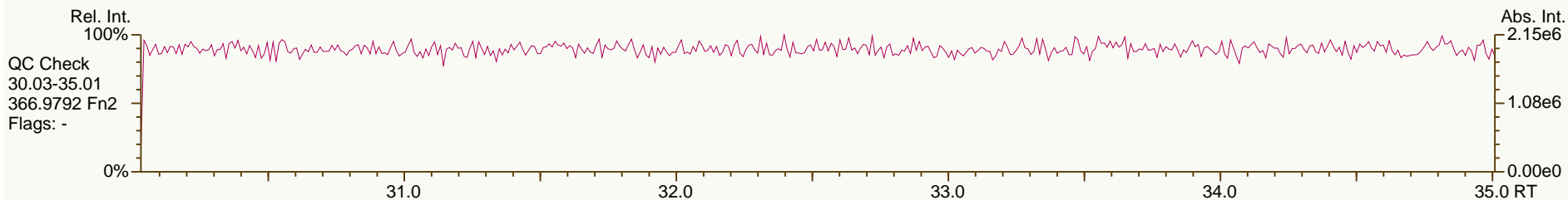
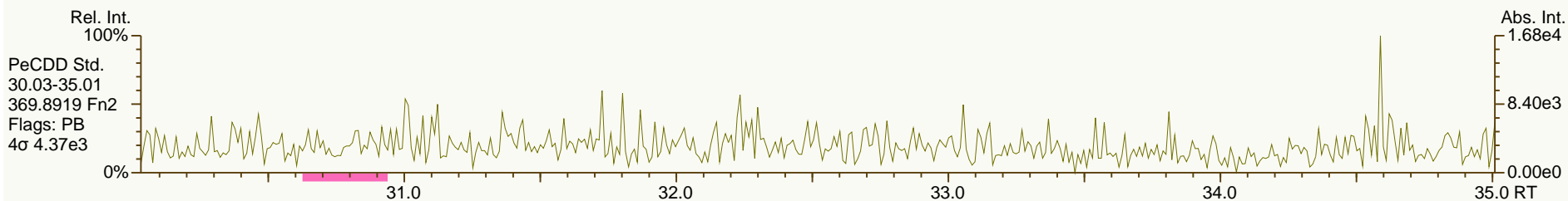
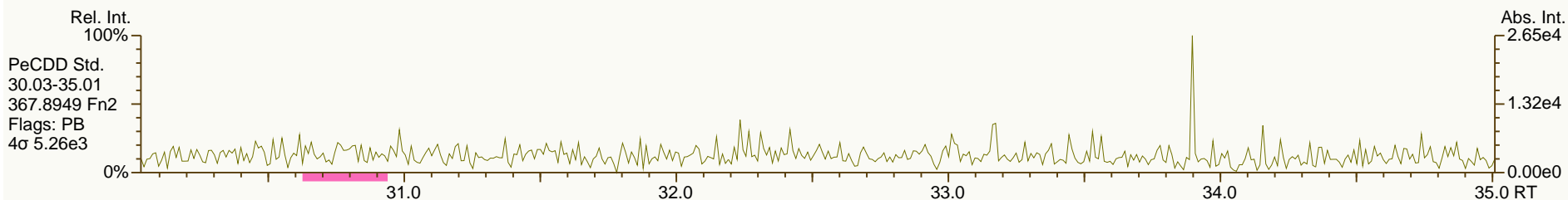
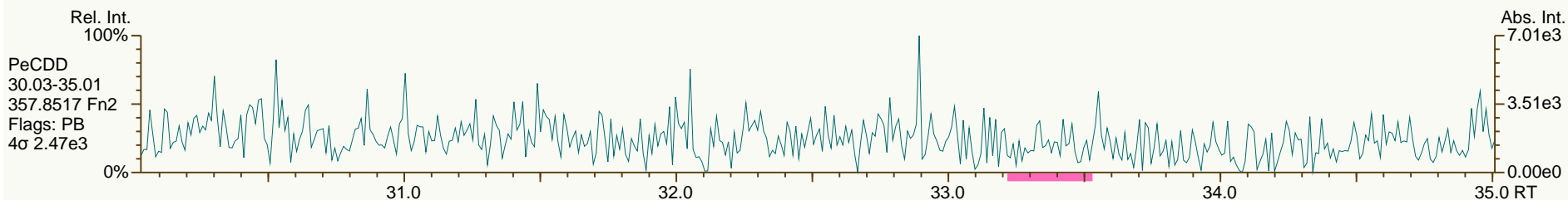
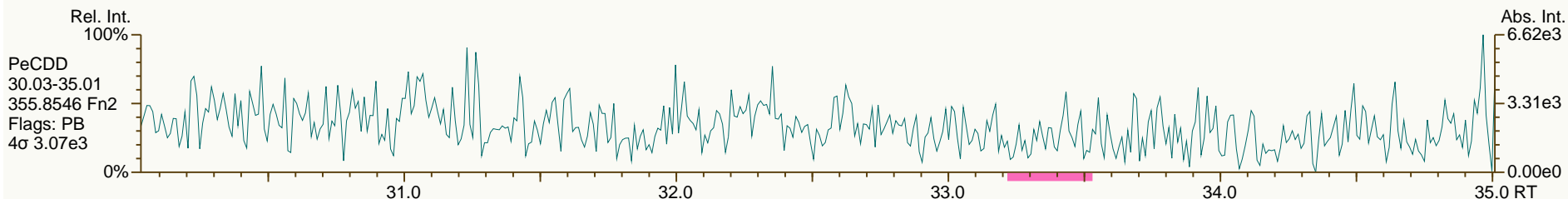
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SGS-AP ID: SBS_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

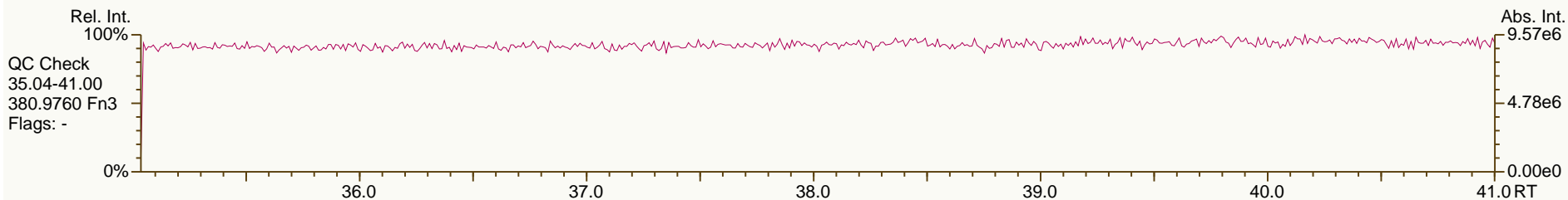
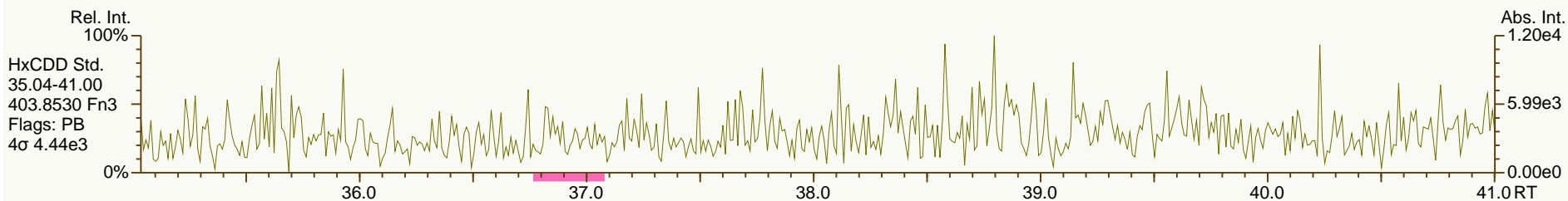
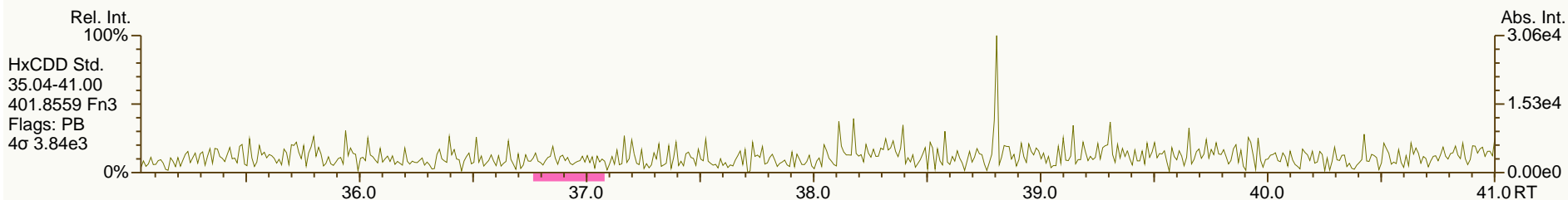
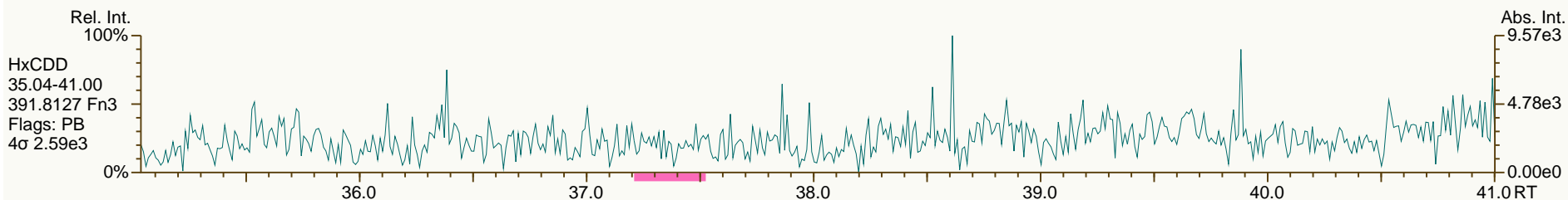
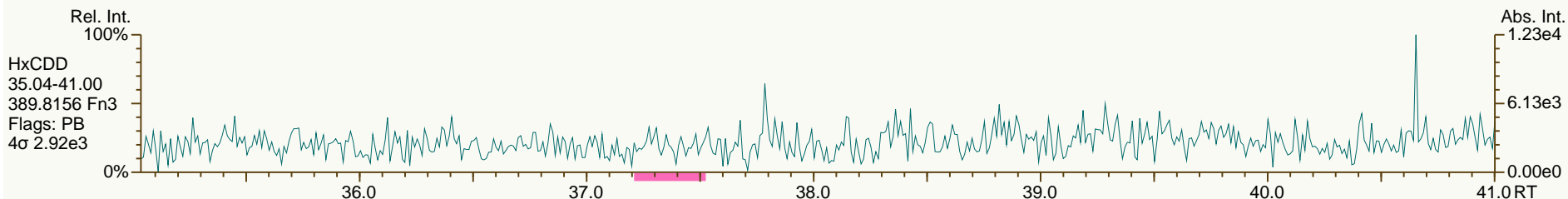
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SGS-AP ID: SBS_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

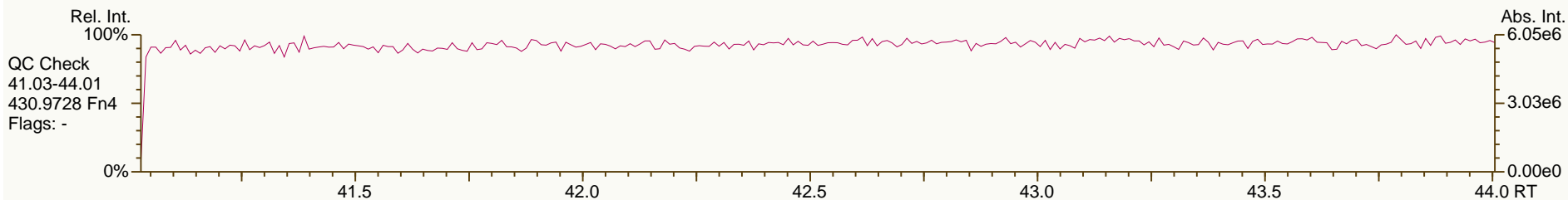
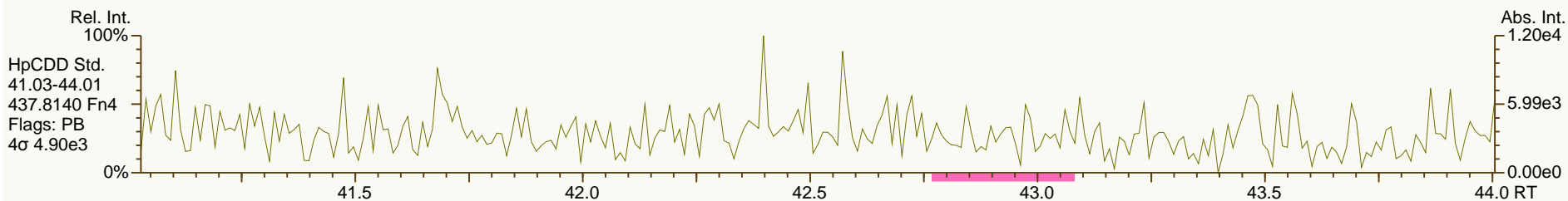
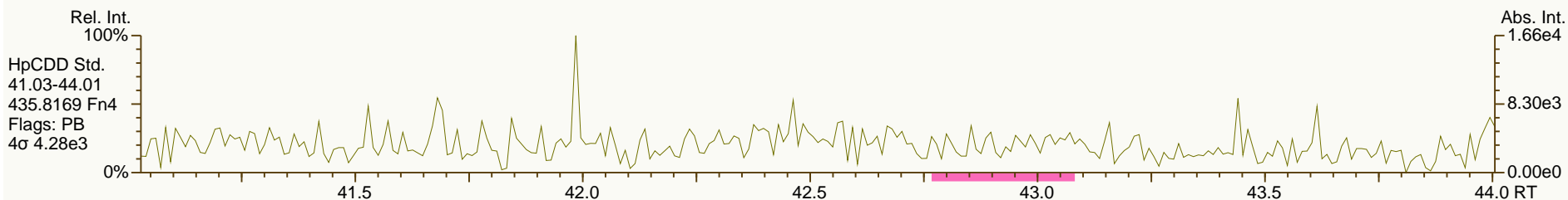
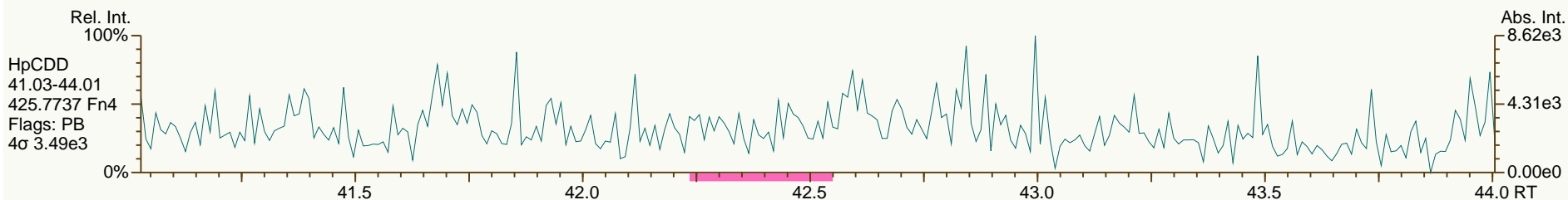
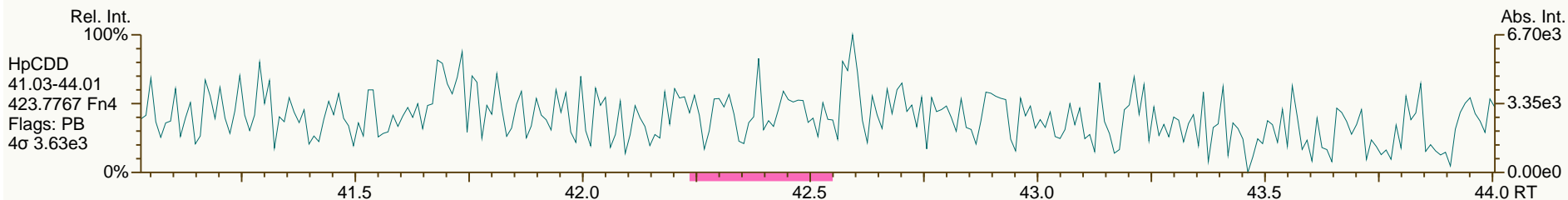
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SGS-AP ID: SBS_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

Acq: 14-OCT-2013 00:04:51
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SGS-AP ID: SBS_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

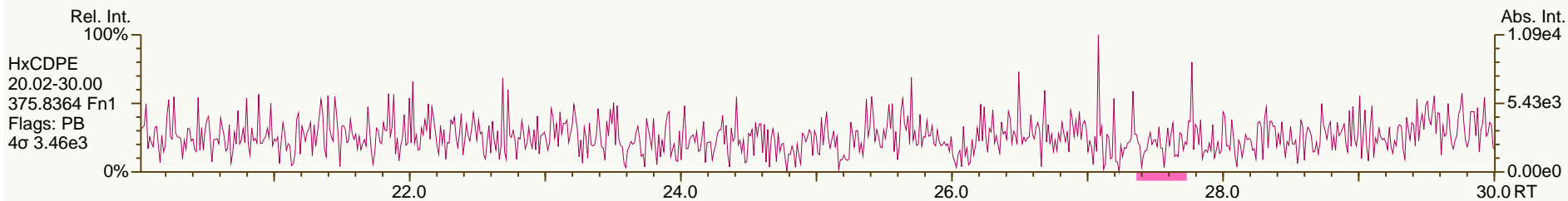
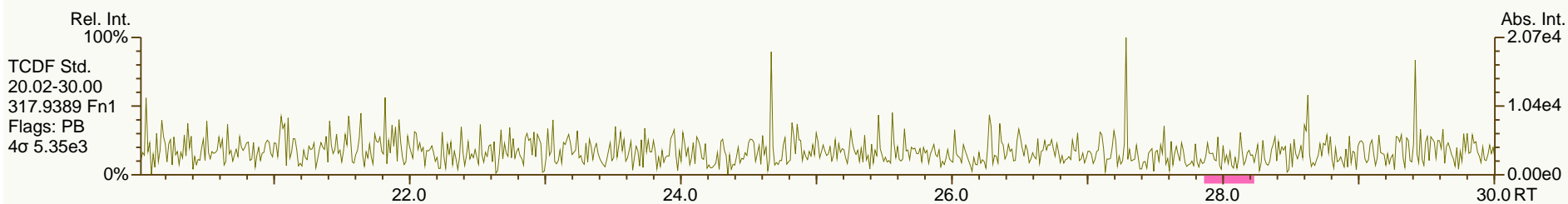
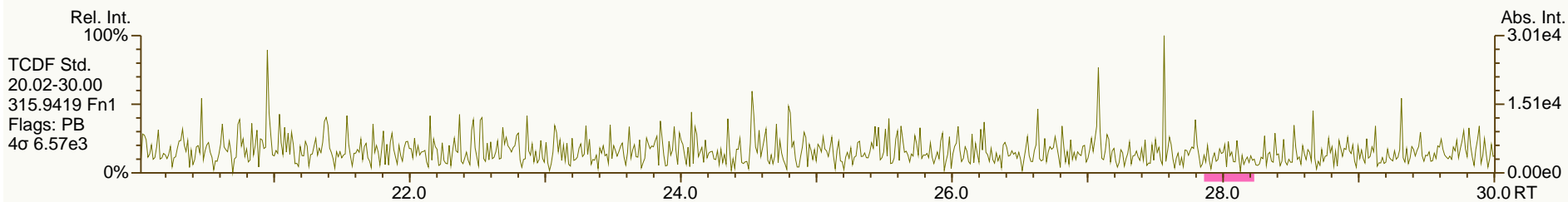
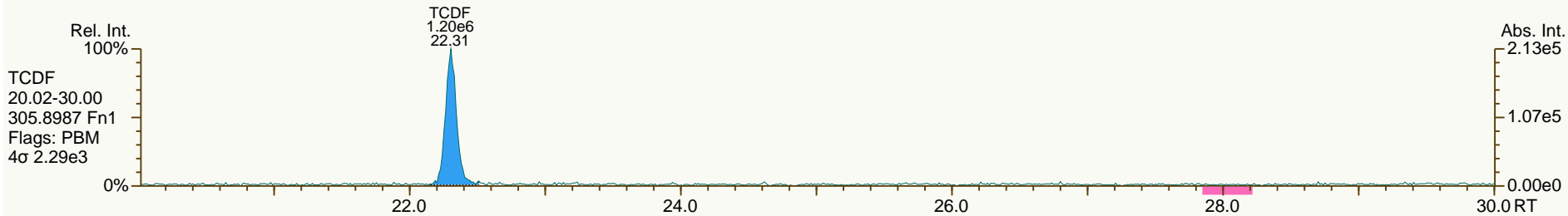
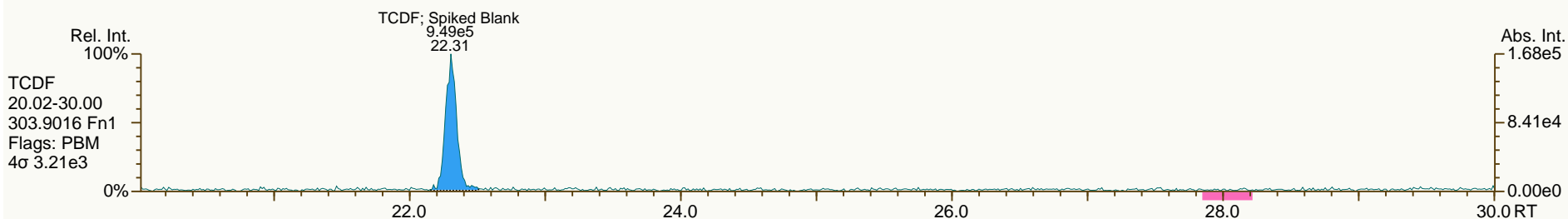
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SGS-AP ID: SBS_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

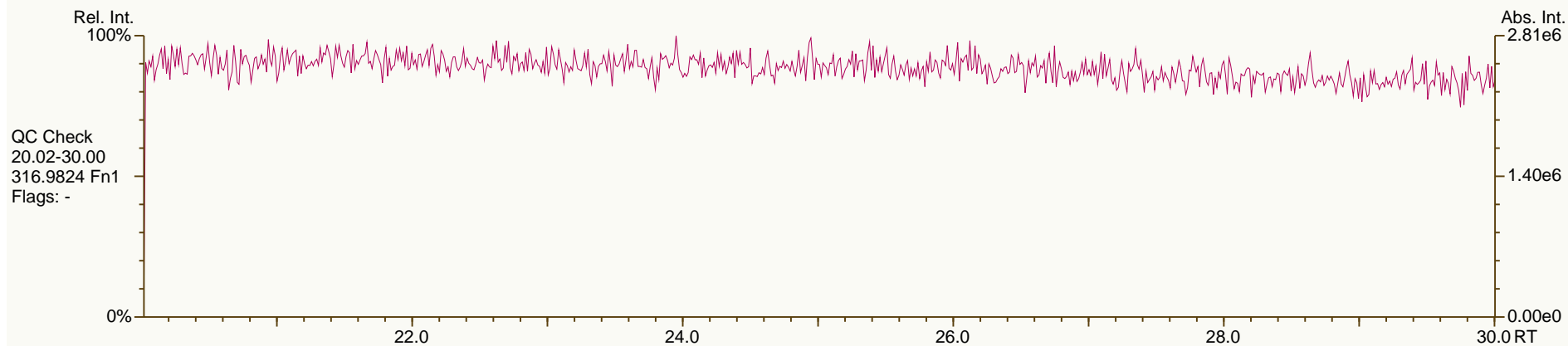
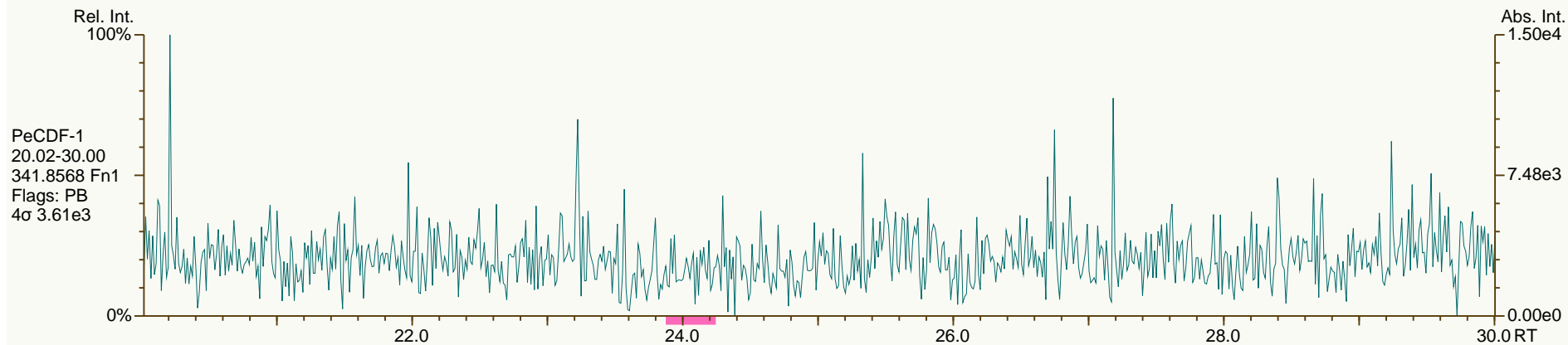
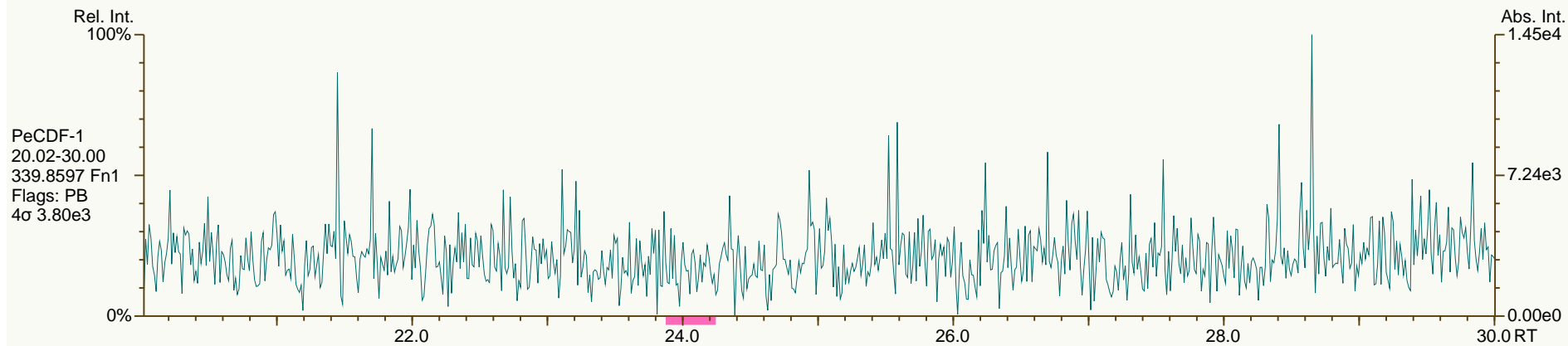
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SGS-AP ID: SBS_131013_DF_PB
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

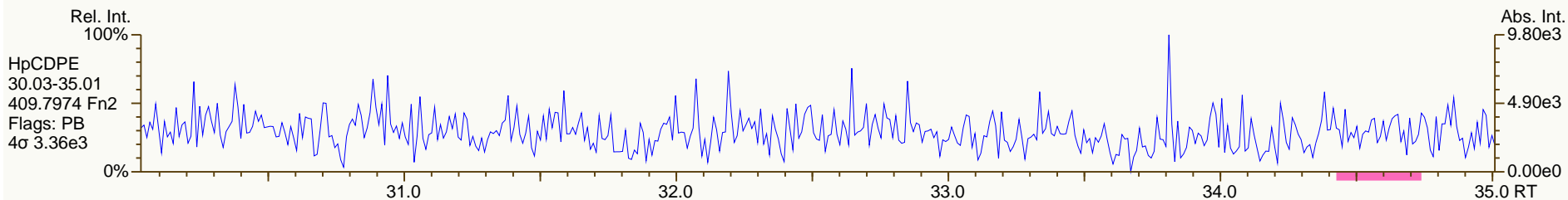
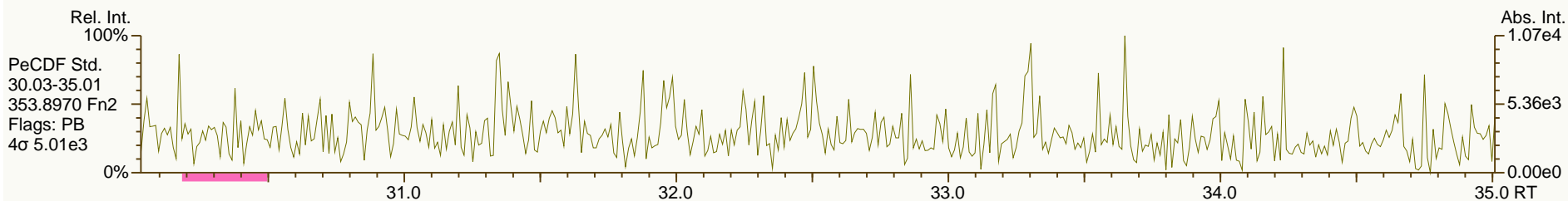
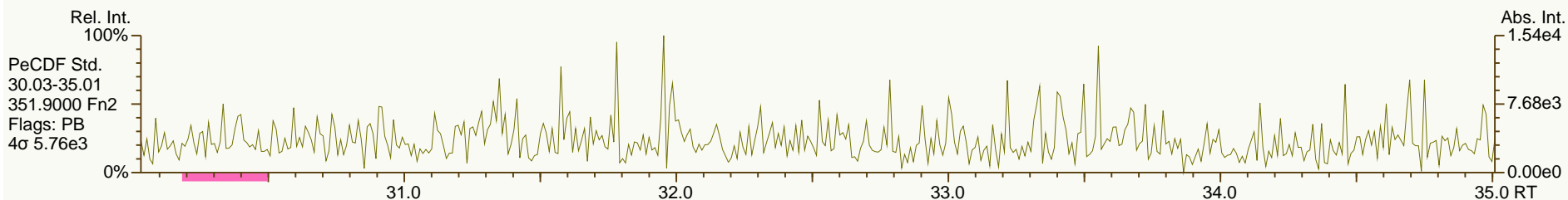
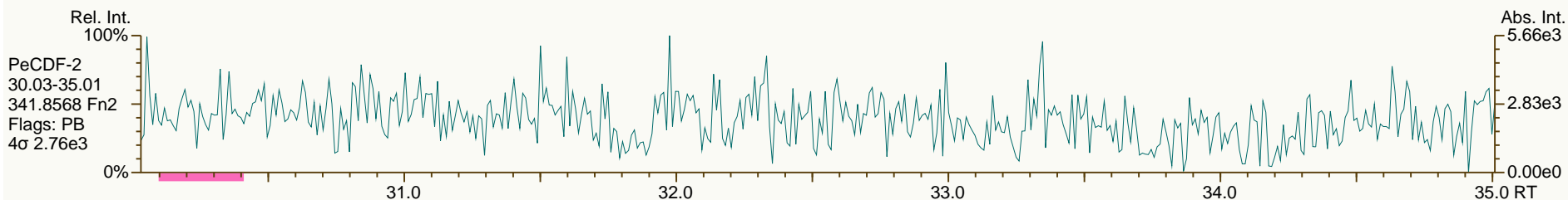
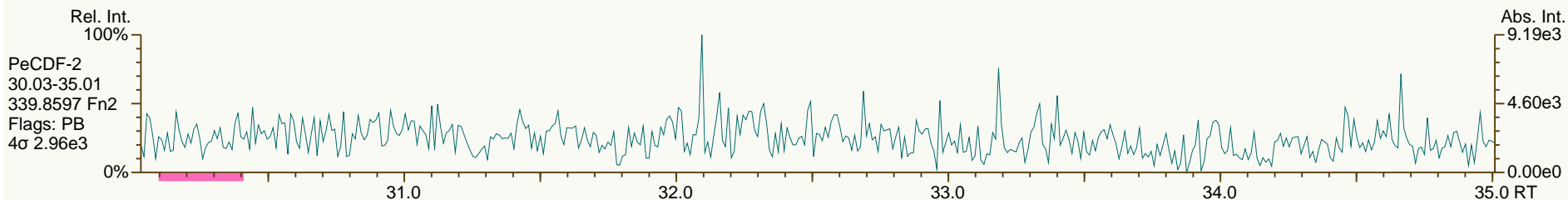
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SGS-AP ID: SBS_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

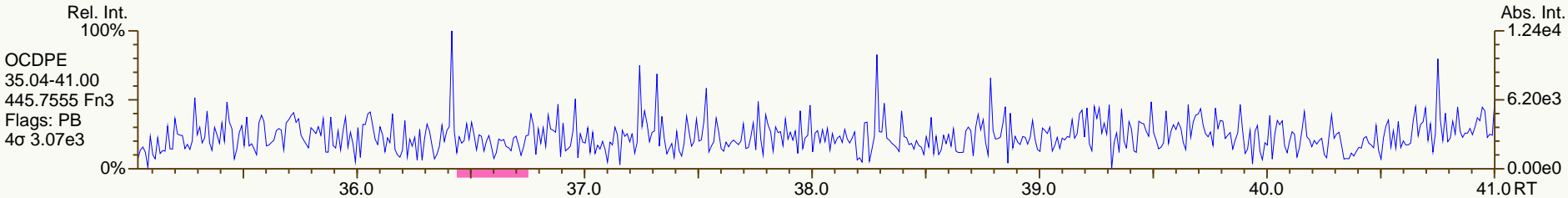
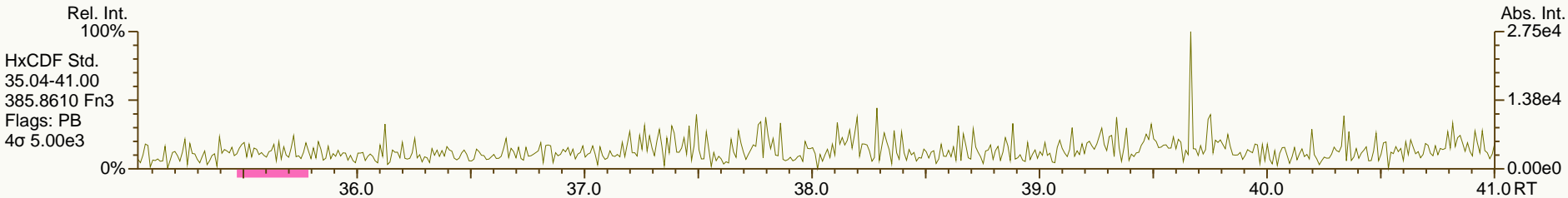
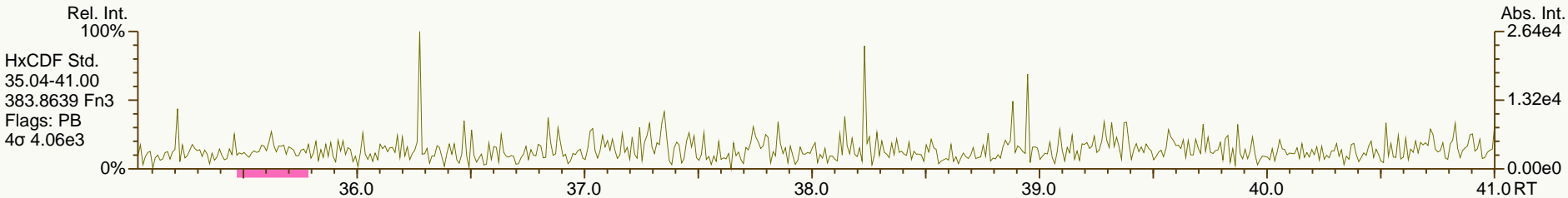
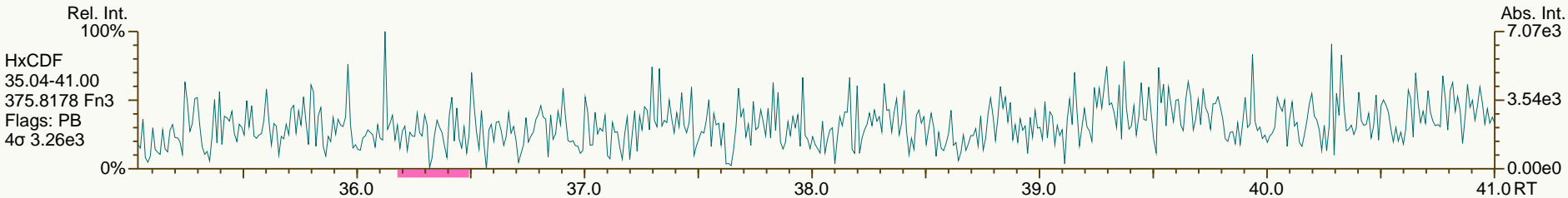
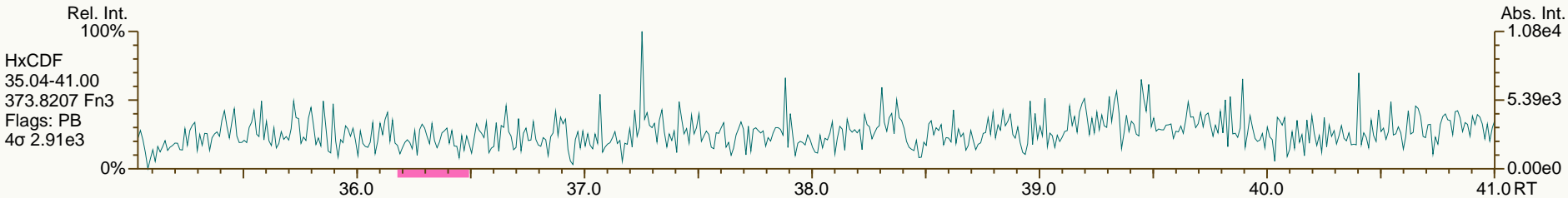
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SGS-AP ID: SBS_131013_DF_PB
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

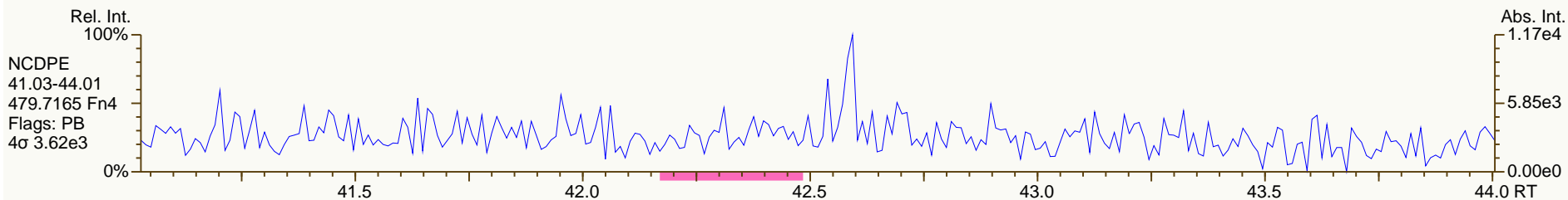
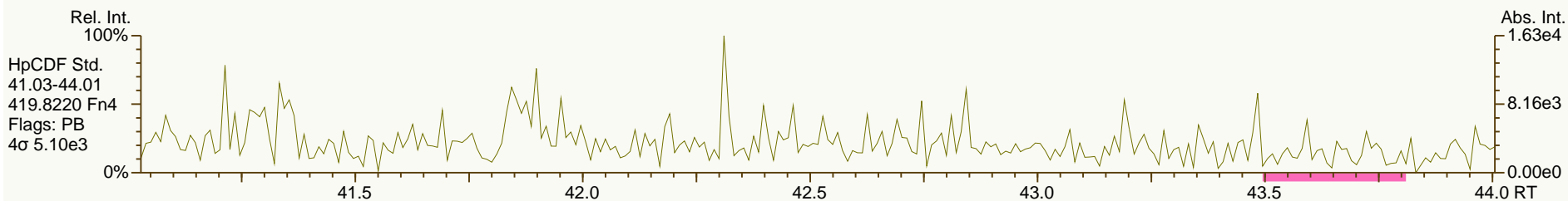
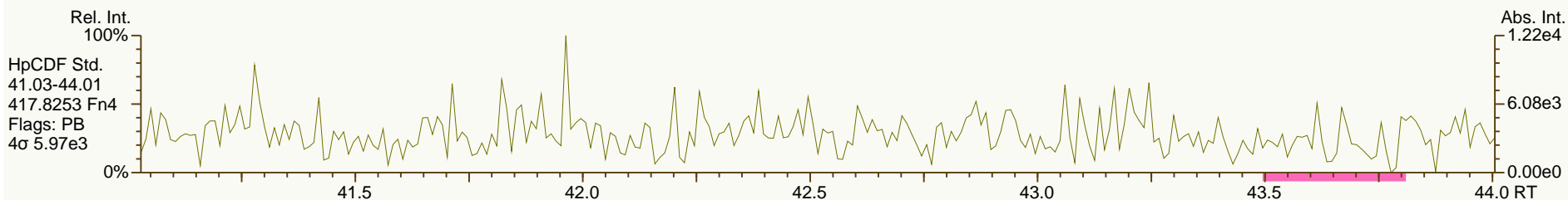
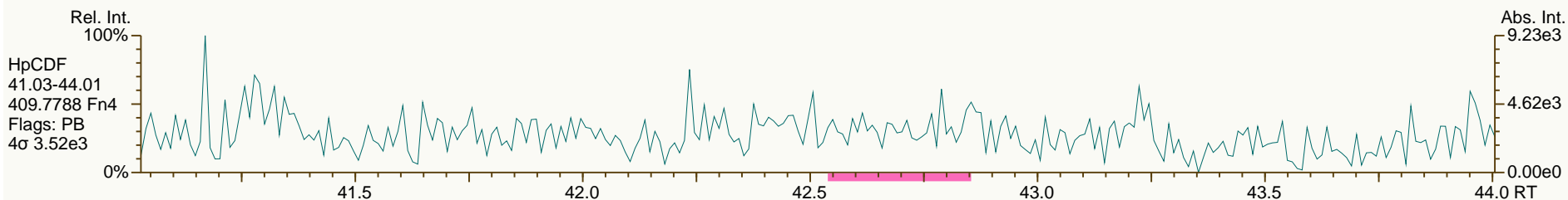
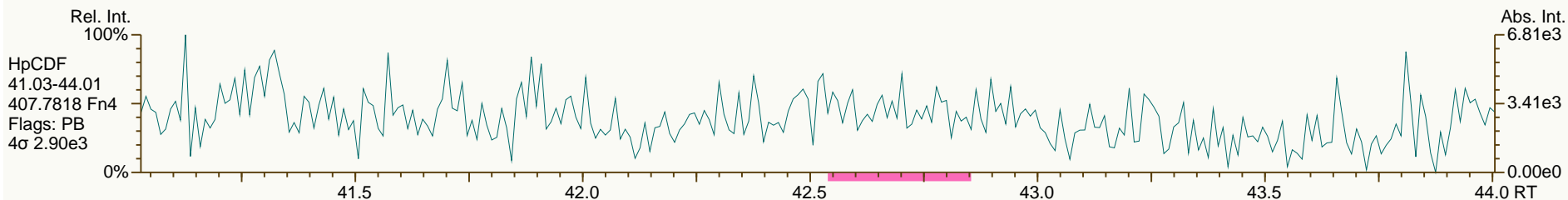
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SGS-AP ID: SBS_131013_DF_PB
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

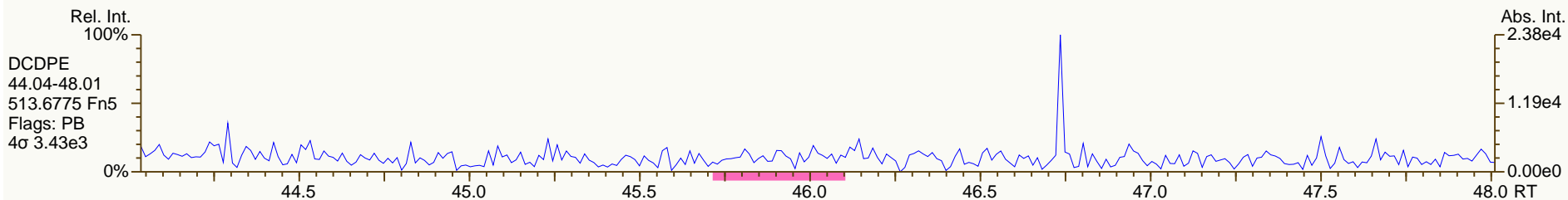
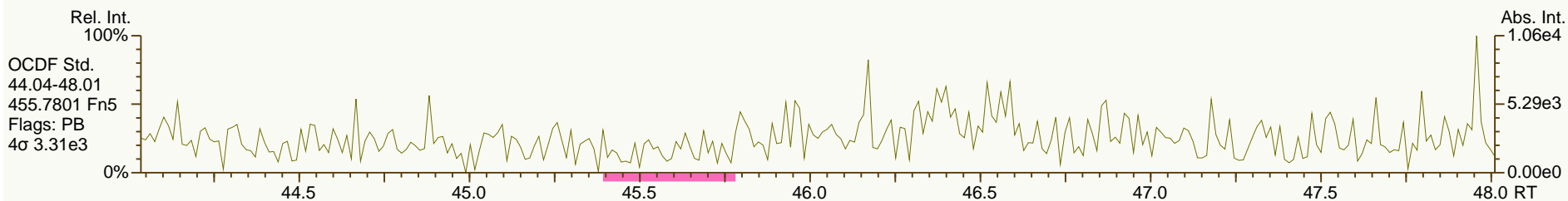
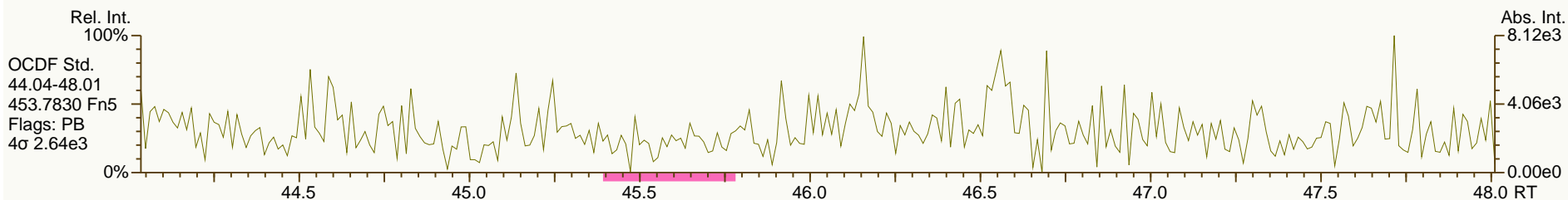
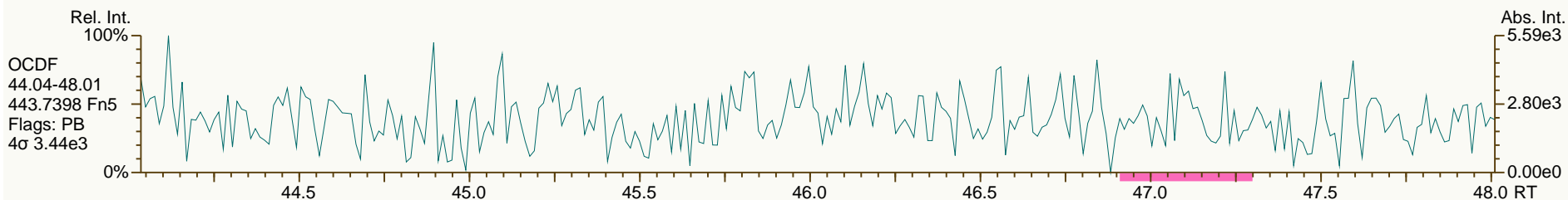
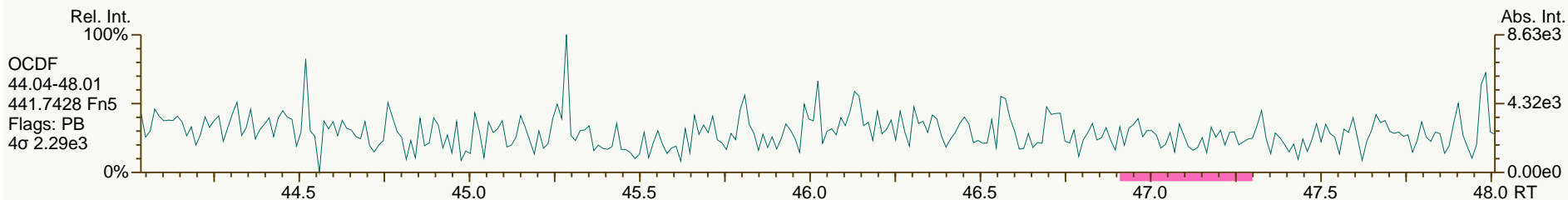
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SGS-AP ID: SBS_131013_DF_PB
 Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

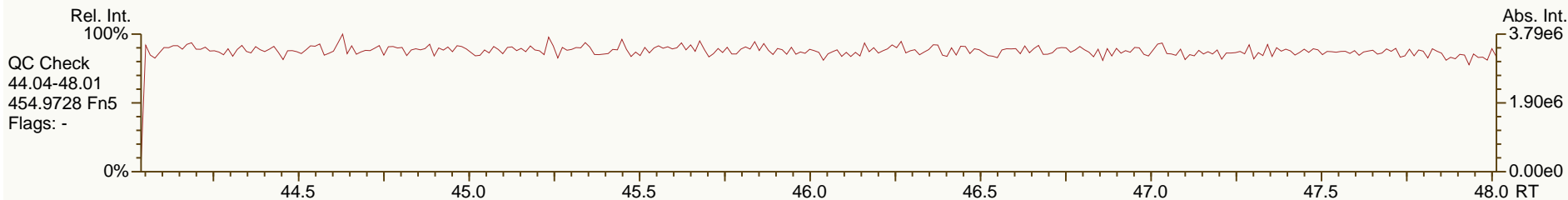
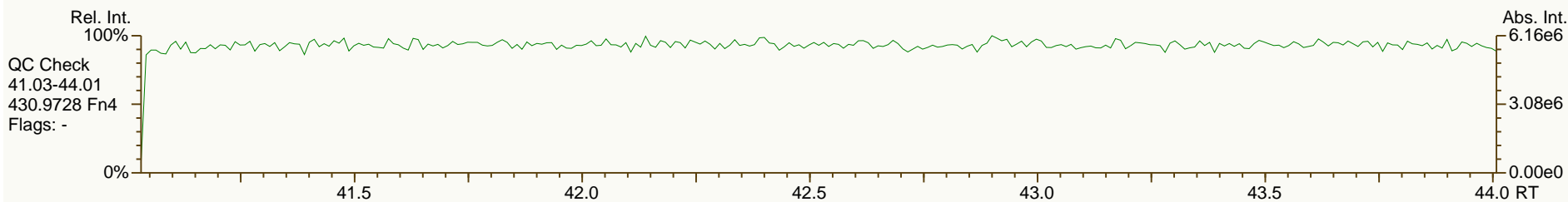
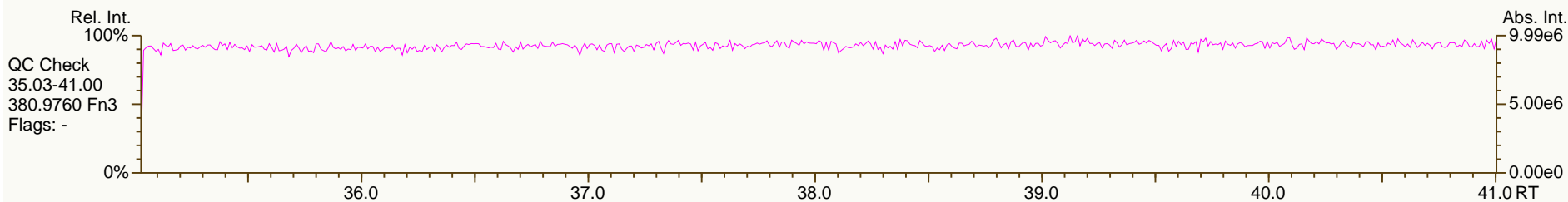
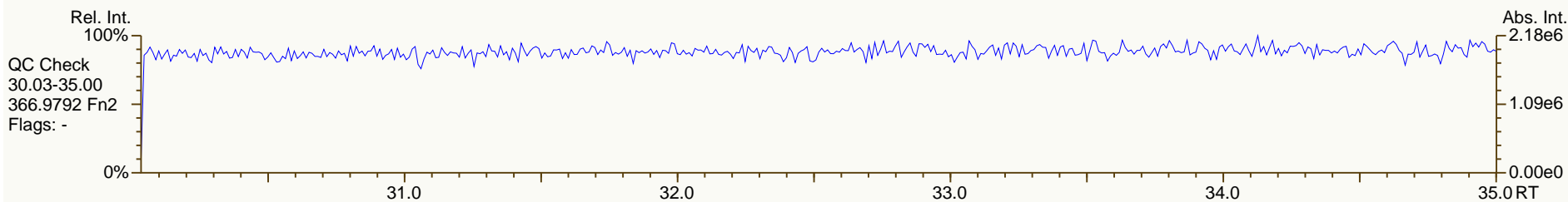
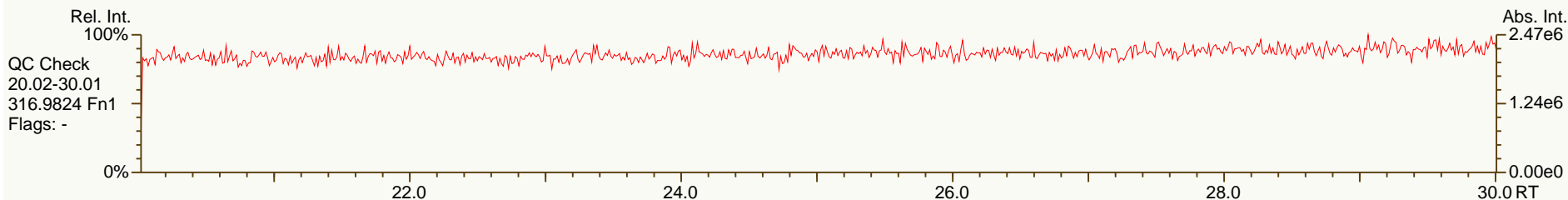
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SGS-AP ID: SBS_131013_DF_PC
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

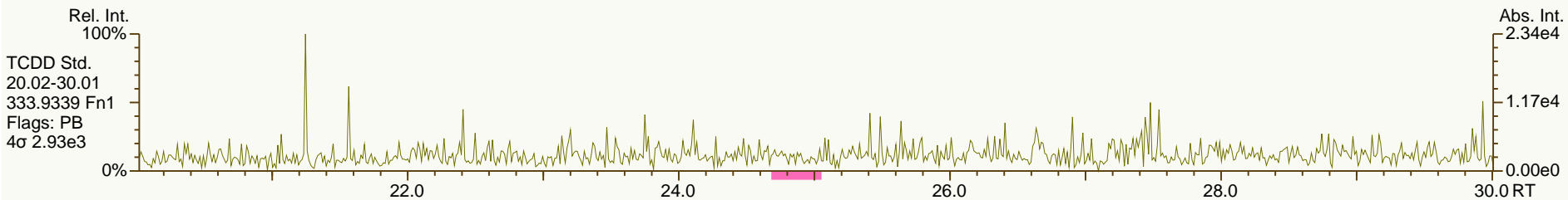
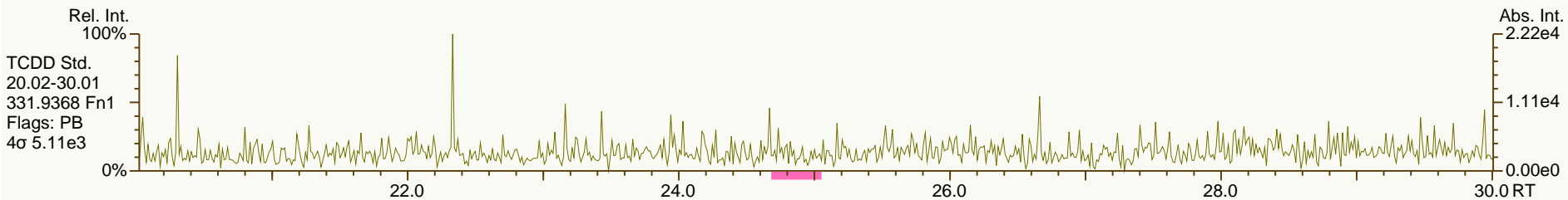
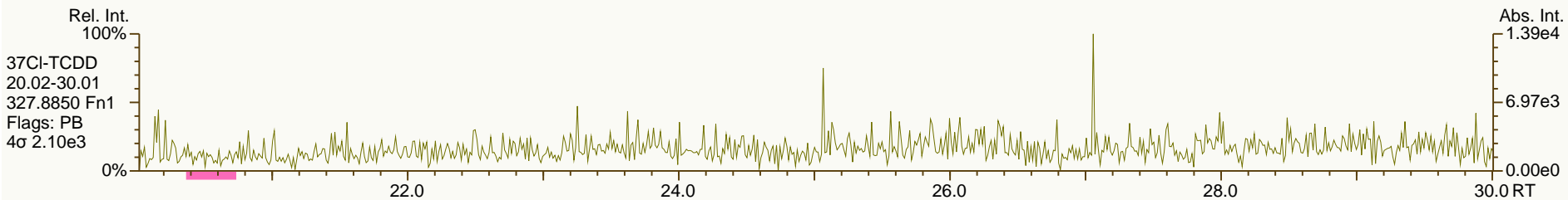
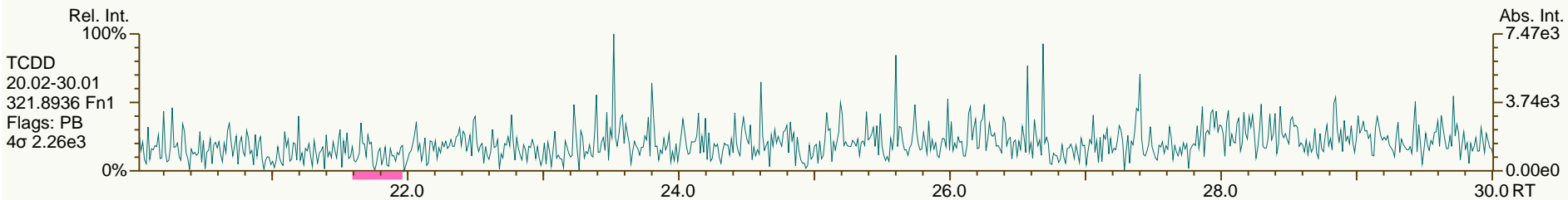
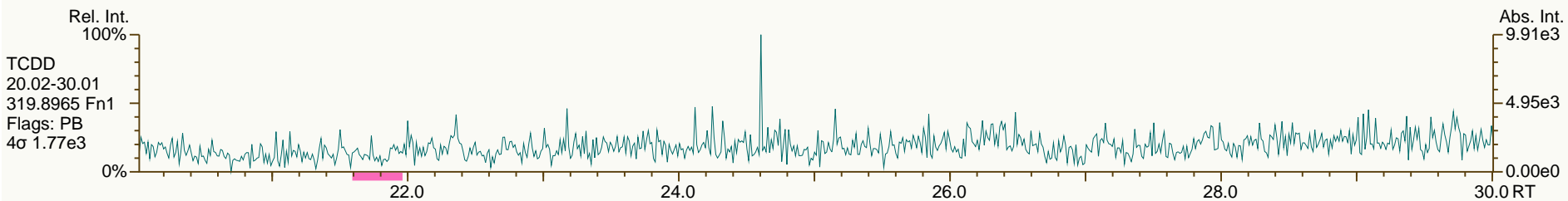
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SGS-AP ID: SBS_131013_DF_PC
 Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
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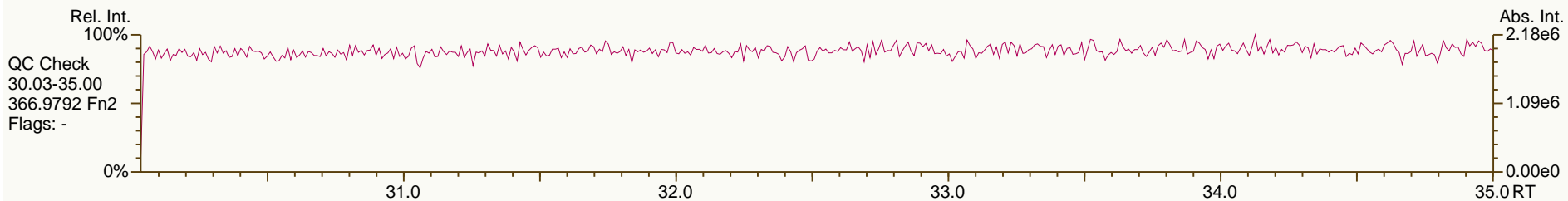
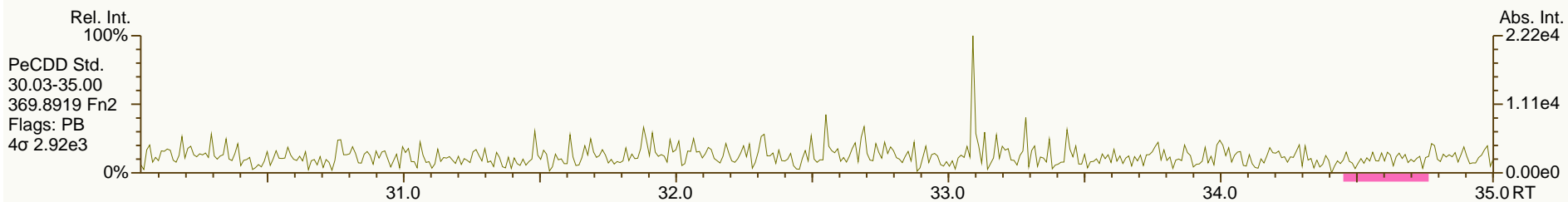
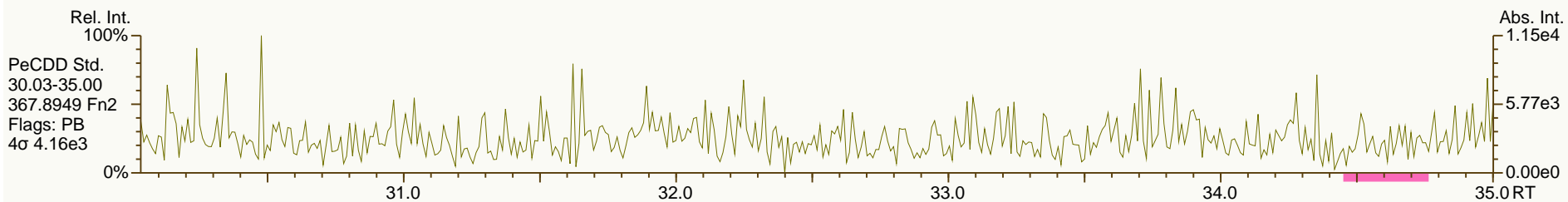
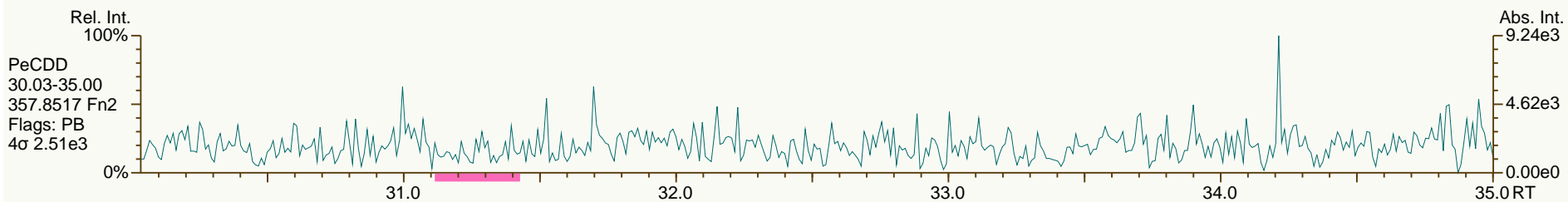
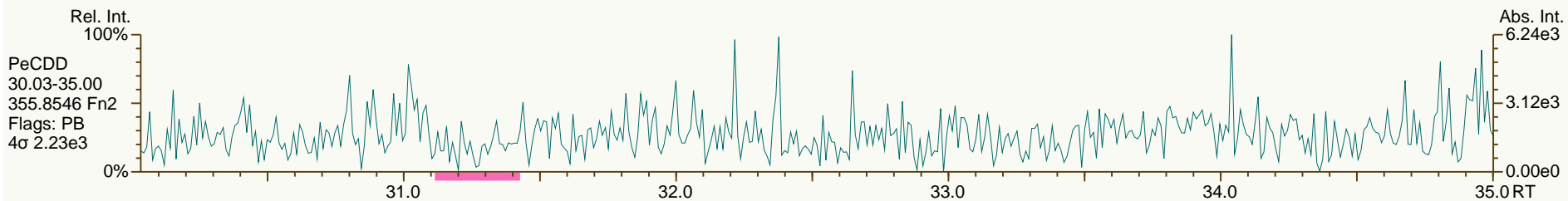
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SGS-AP ID: SBS_131013_DF_PC
 Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

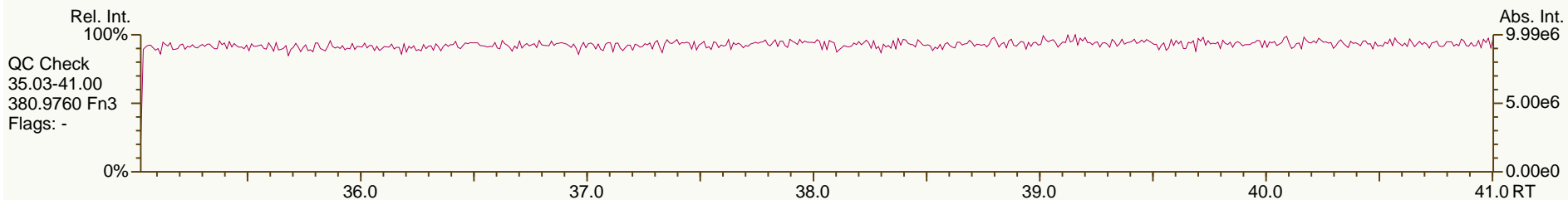
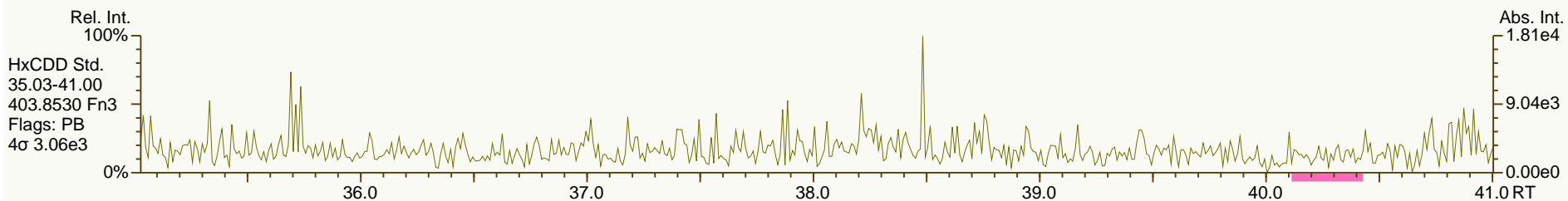
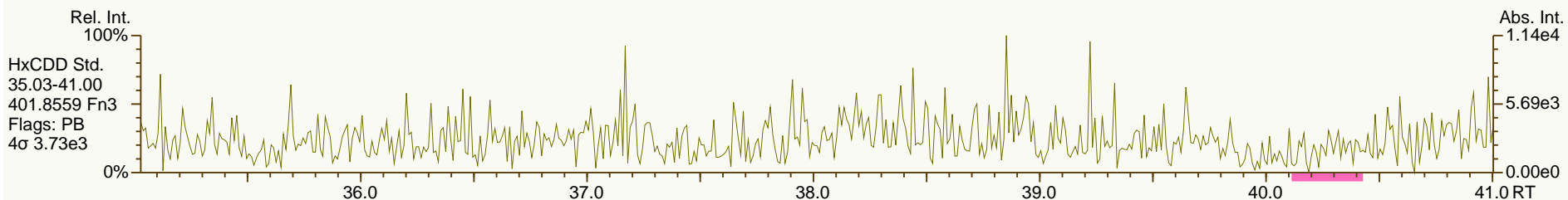
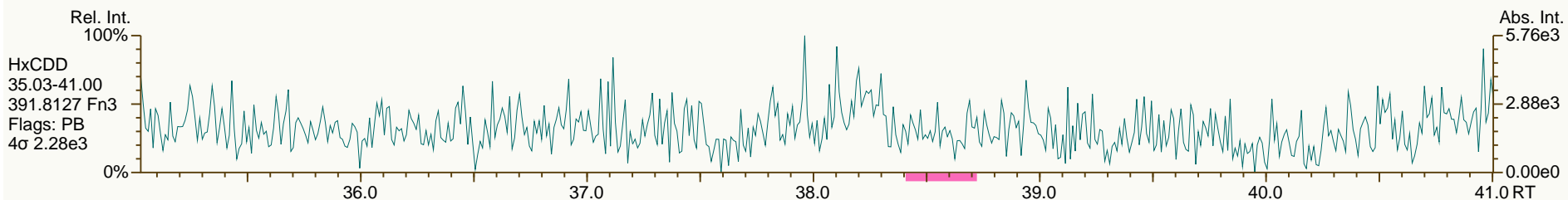
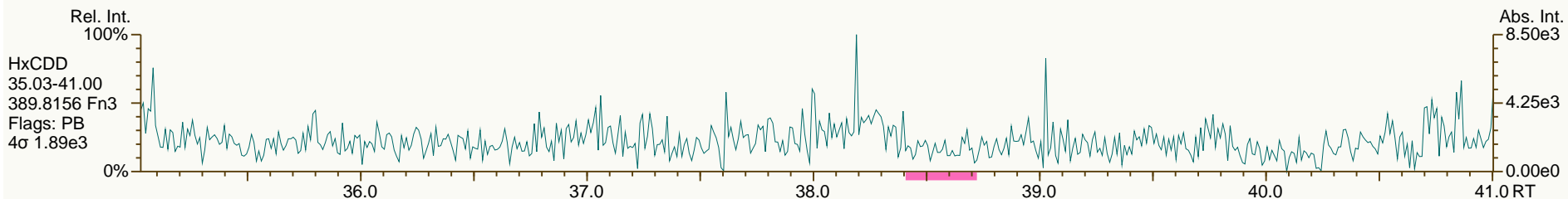
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SGS-AP ID: SBS_131013_DF_PC
 Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

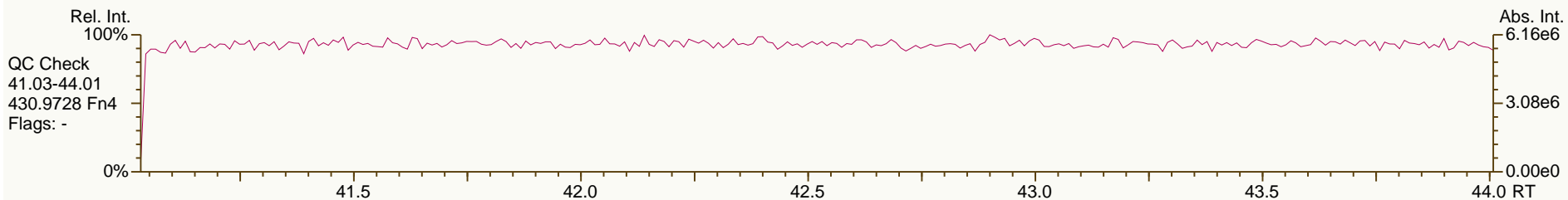
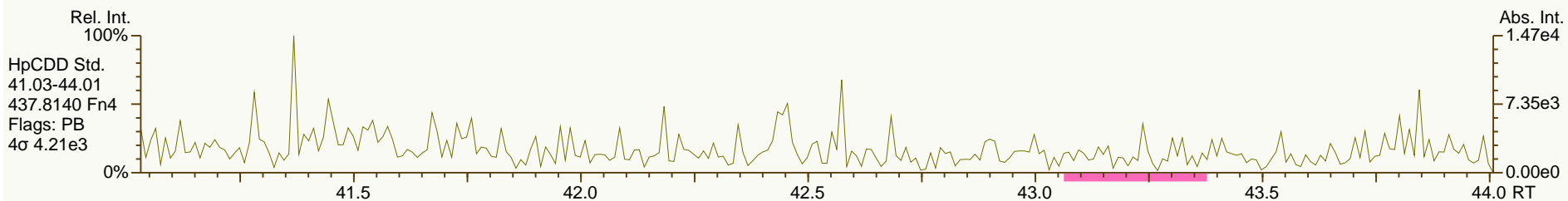
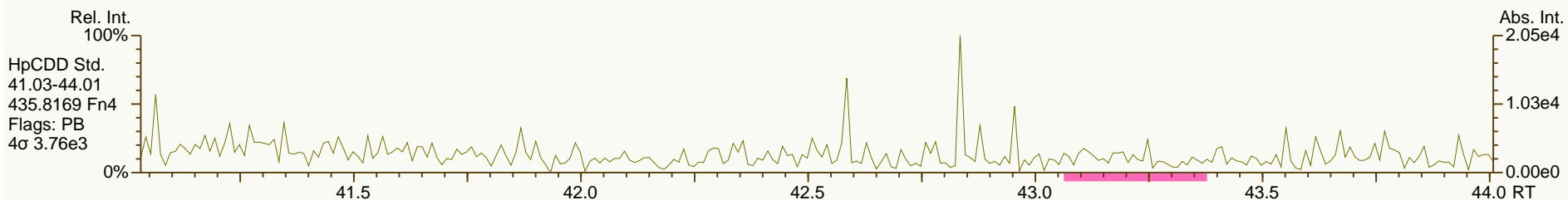
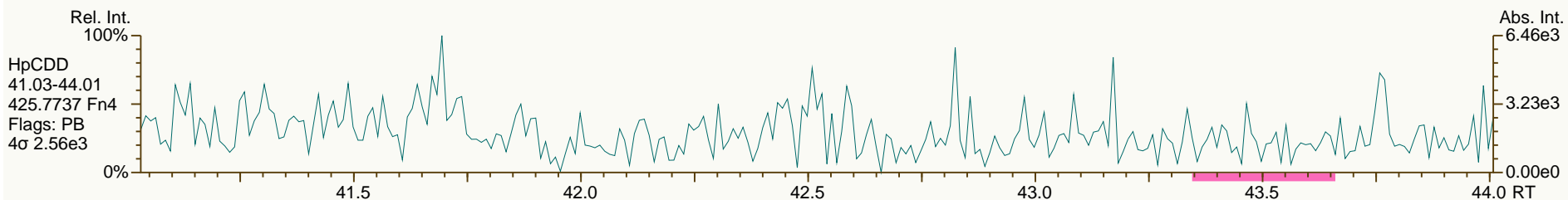
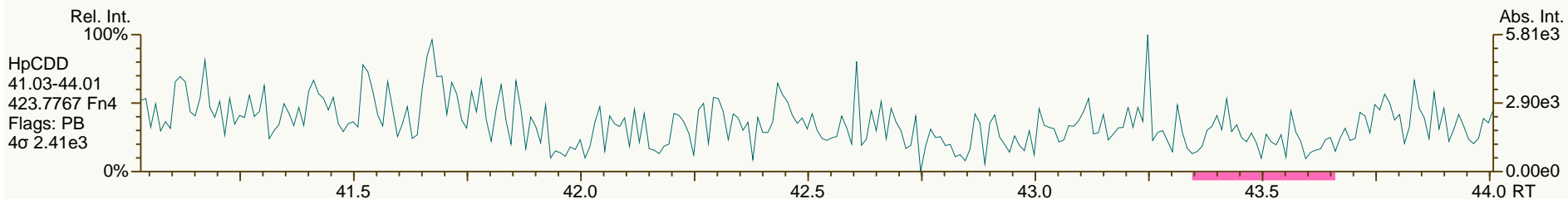
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SGS-AP ID: SBS_131013_DF_PC
 Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

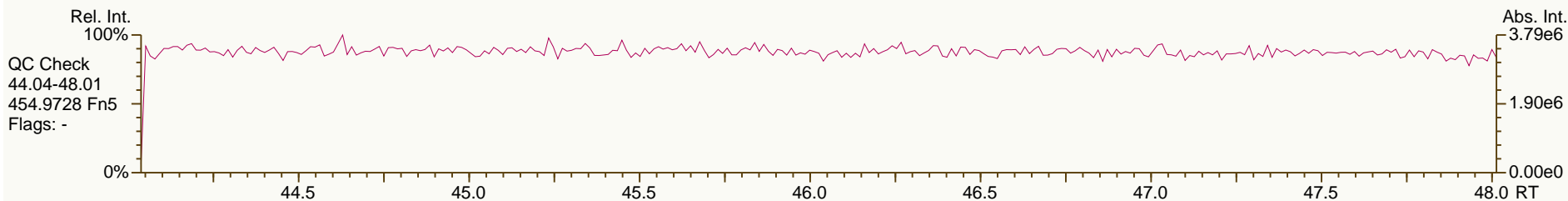
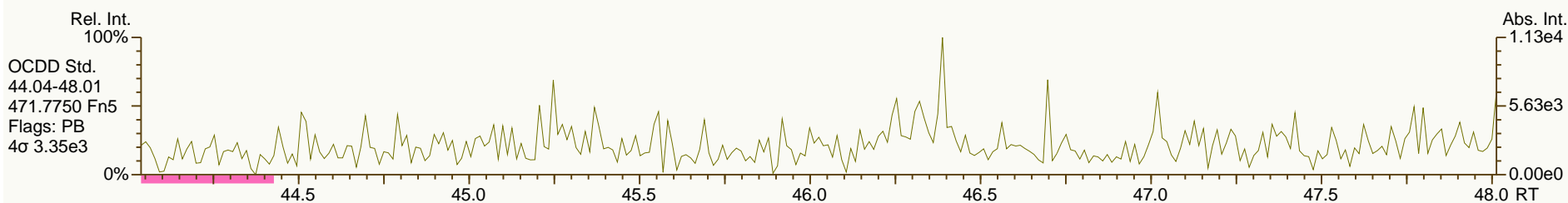
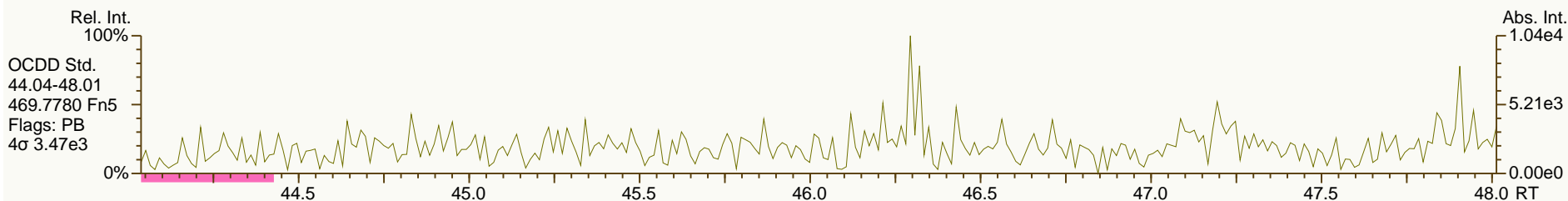
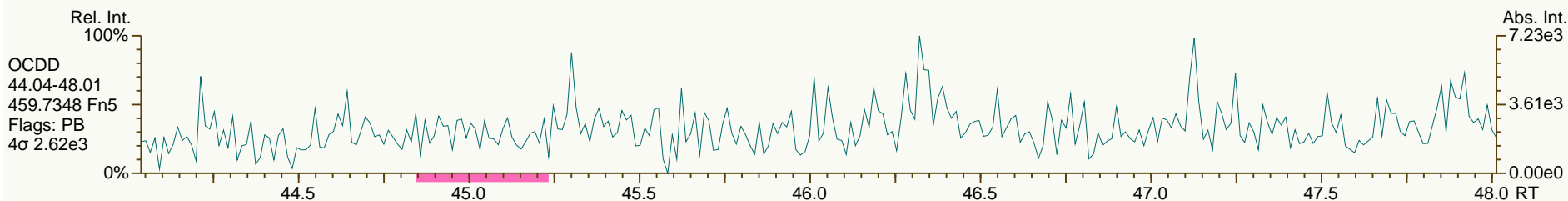
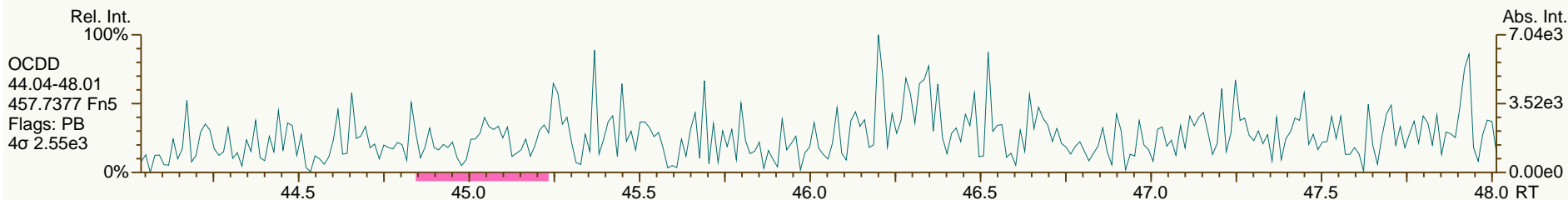
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SGS-AP ID: SBS_131013_DF_PC
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

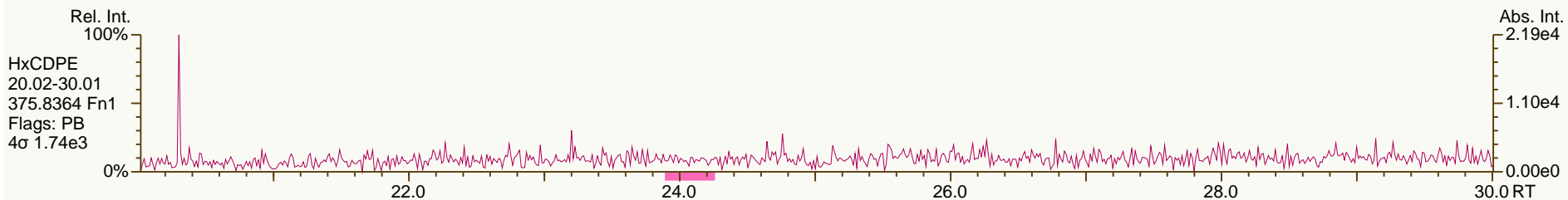
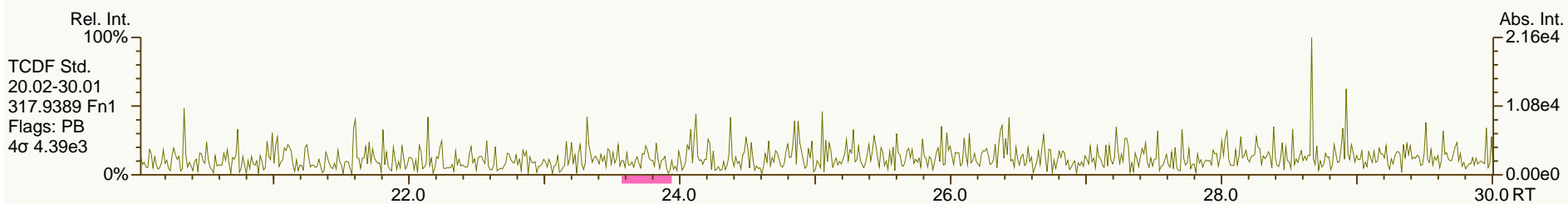
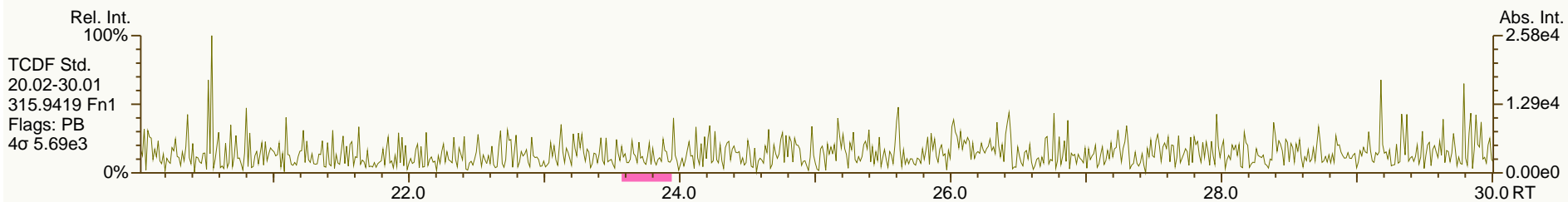
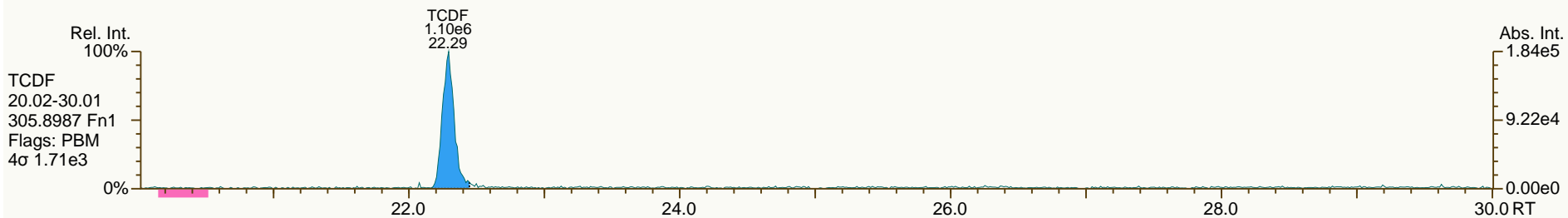
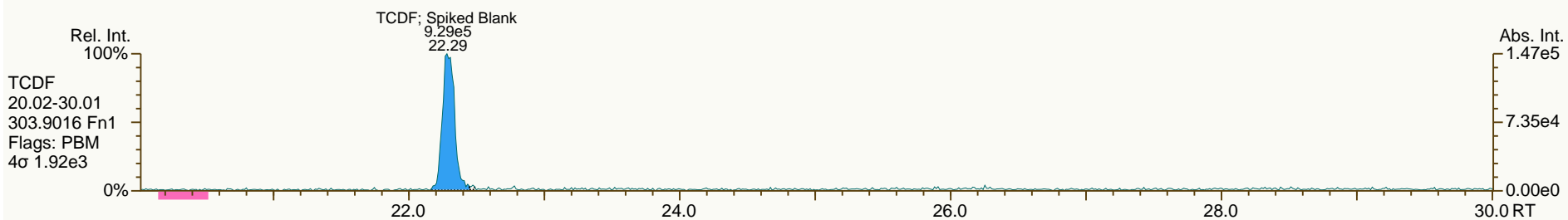
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SGS-AP ID: SBS_131013_DF_PC
 Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

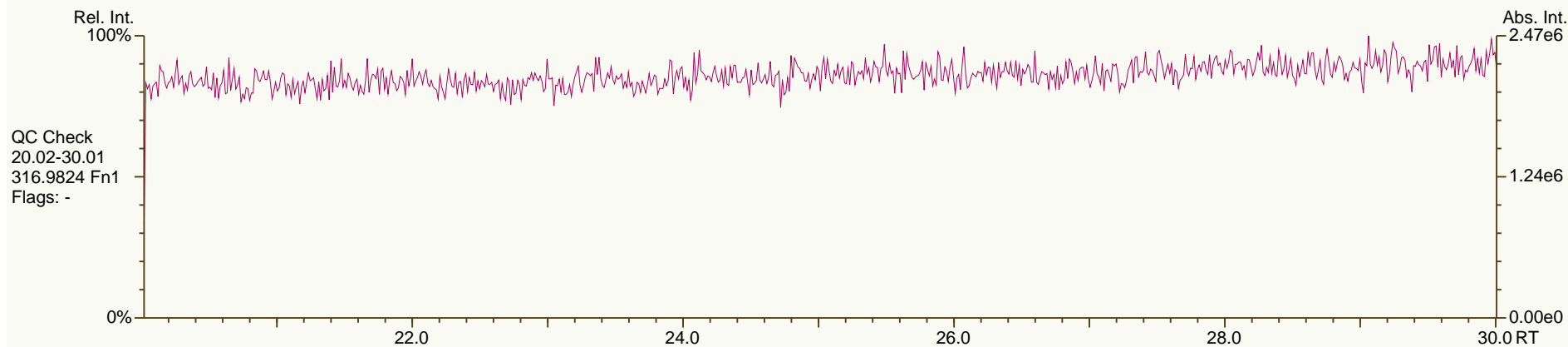
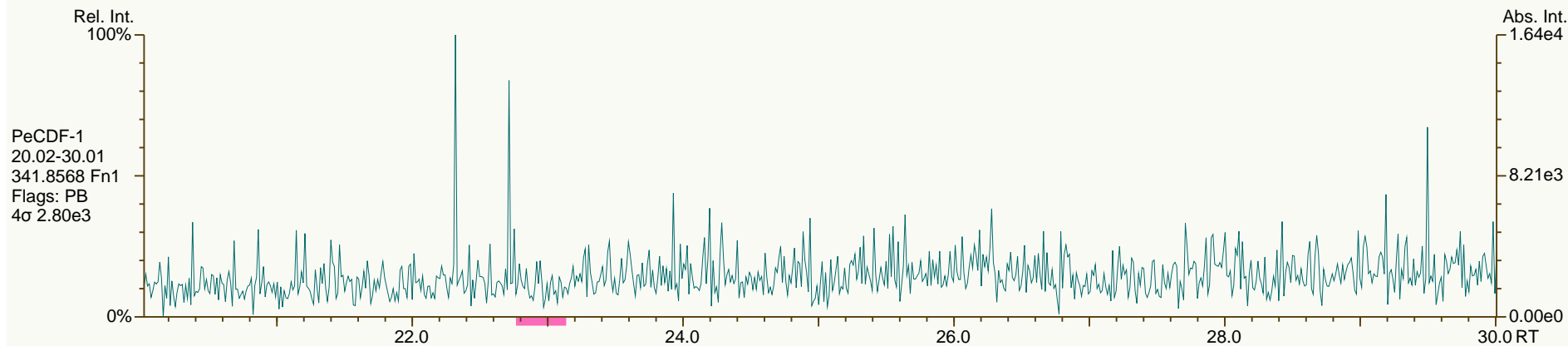
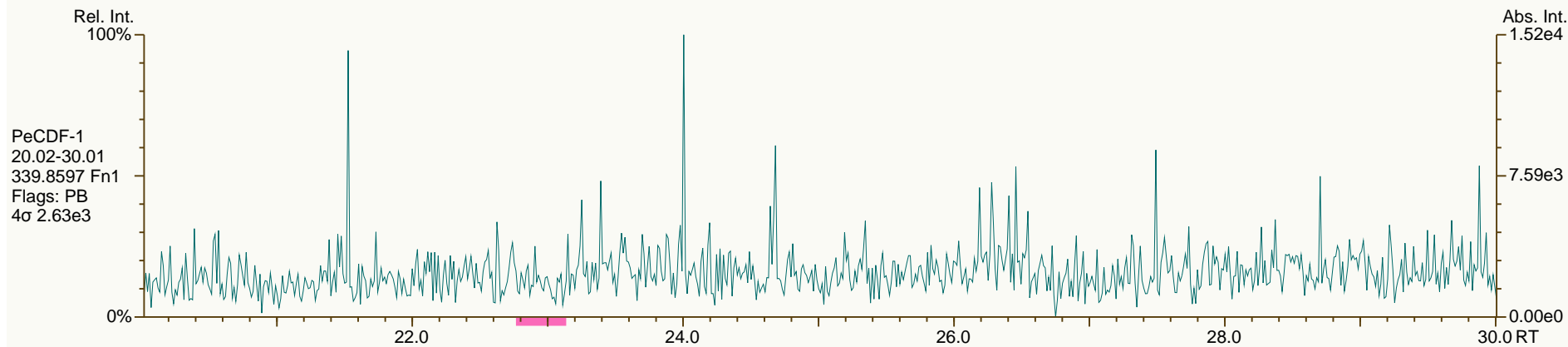
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SGS-AP ID: SBS_131013_DF_PC
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

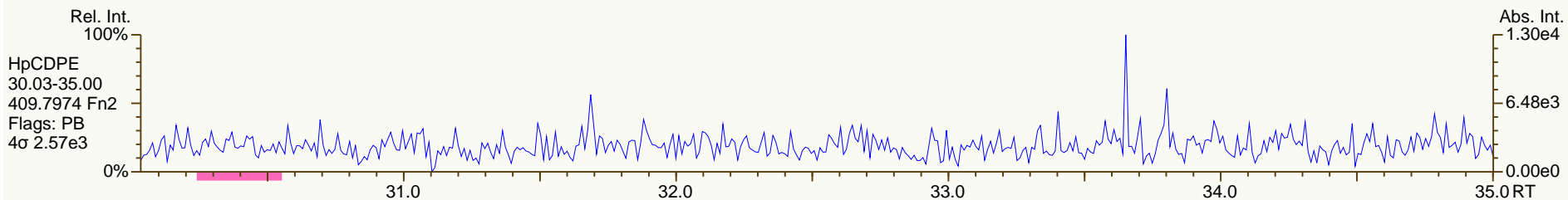
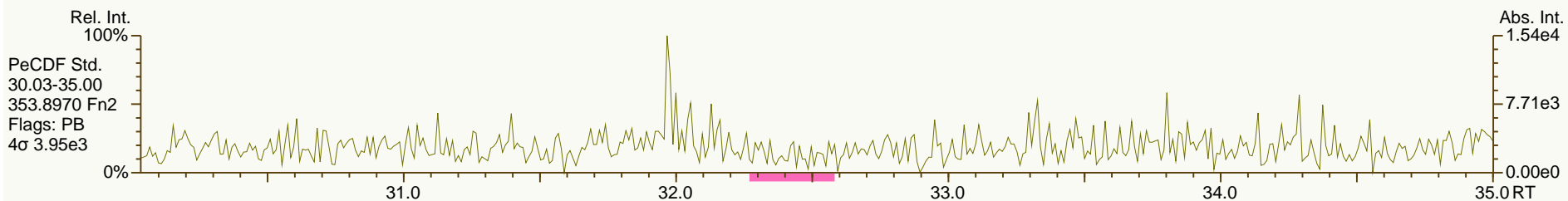
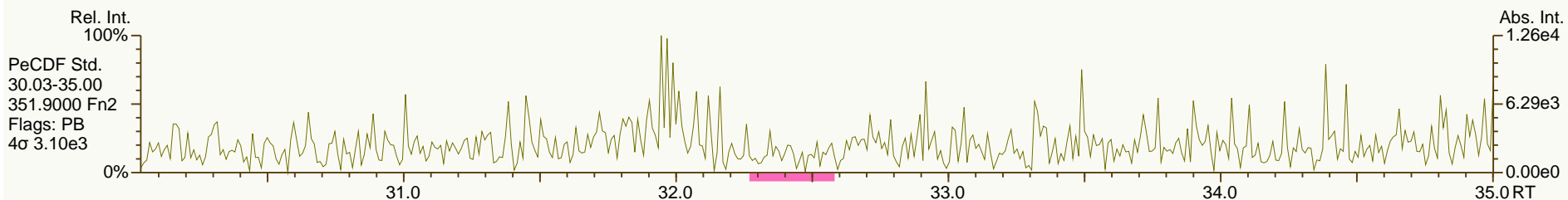
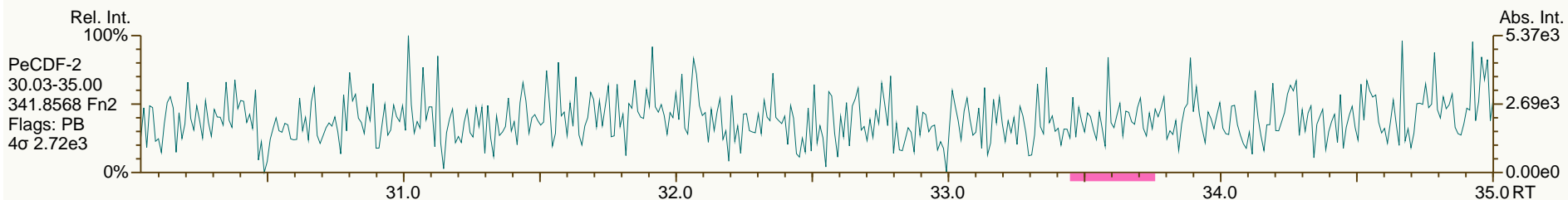
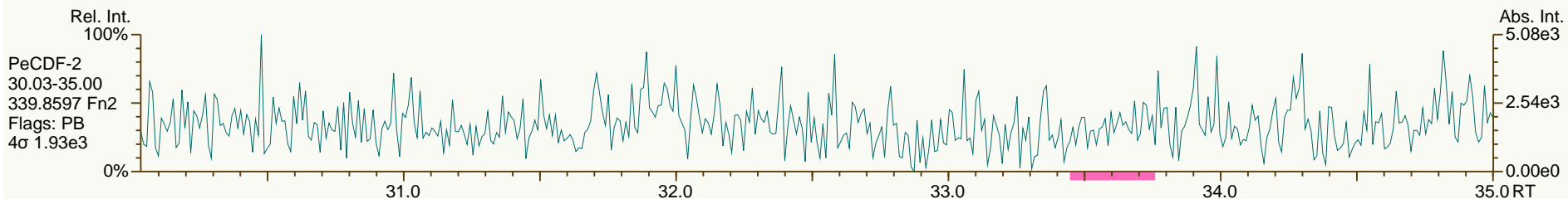
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SGS-AP ID: SBS_131013_DF_PC
 Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

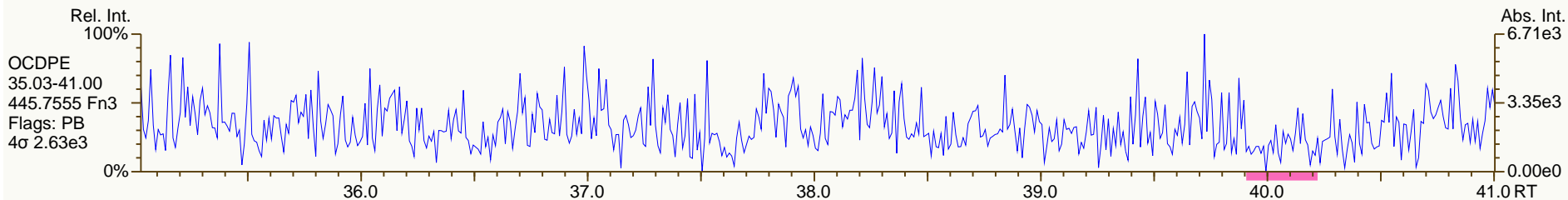
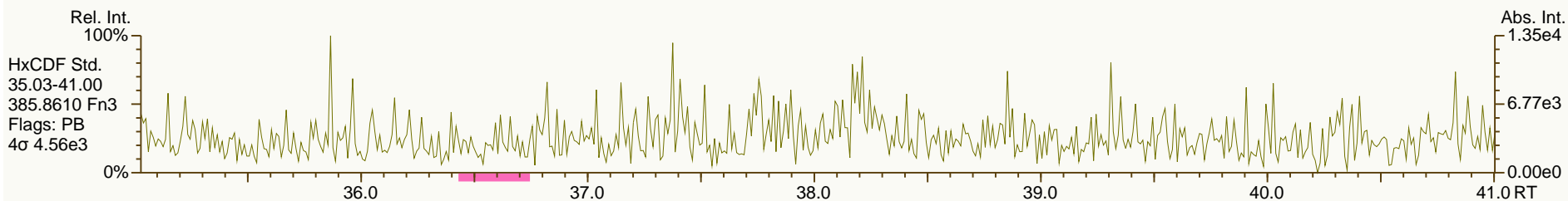
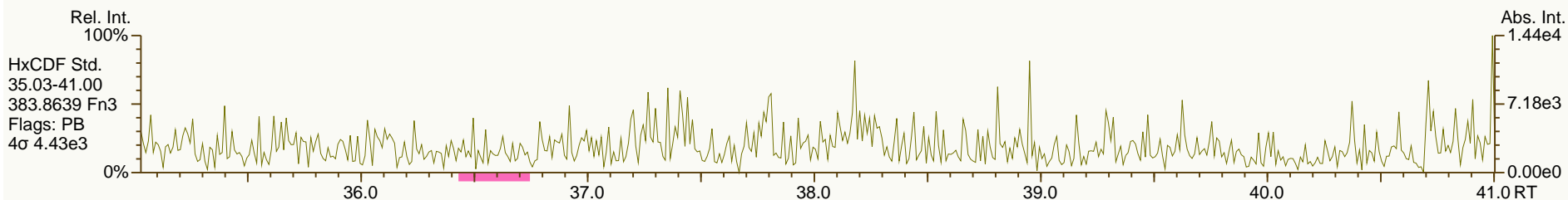
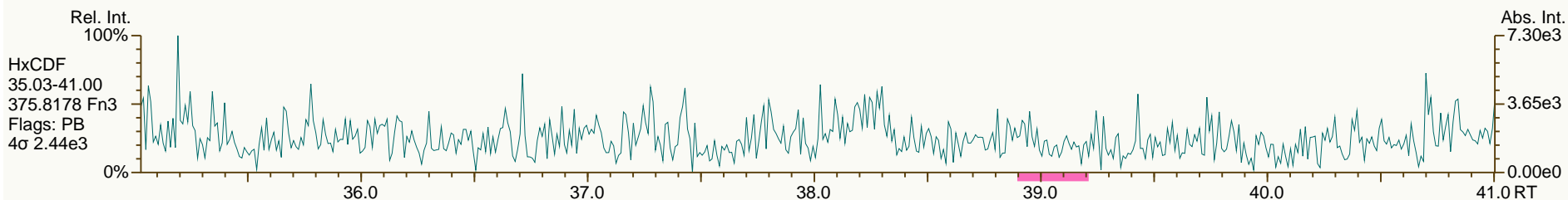
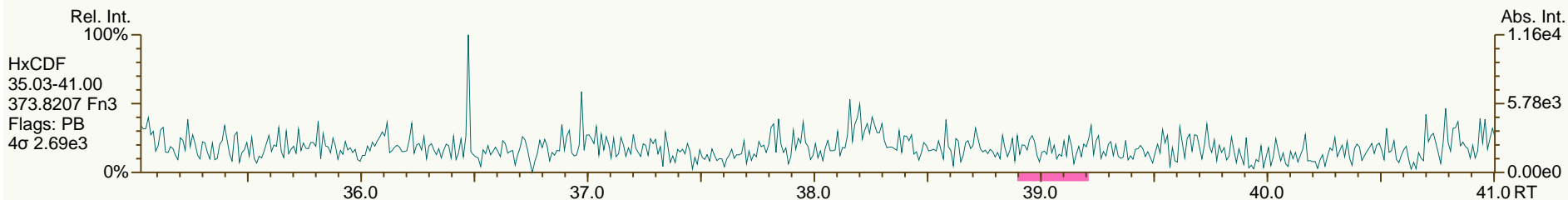
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SGS-AP ID: SBS_131013_DF_PC
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

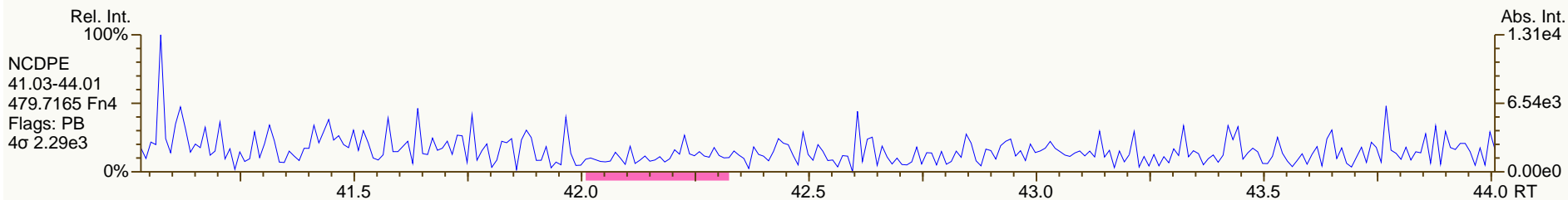
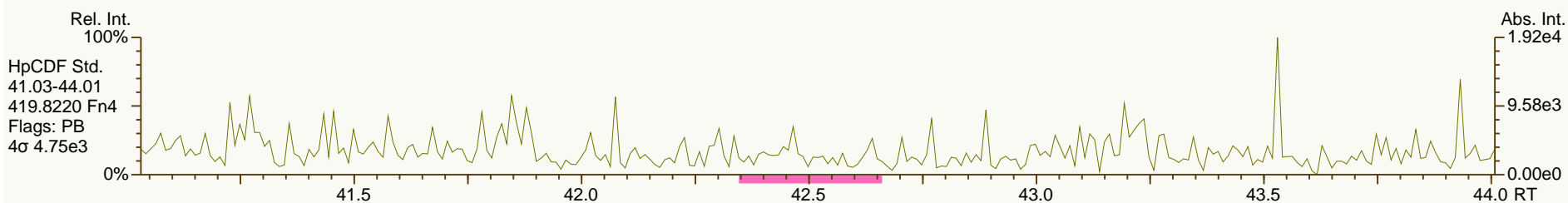
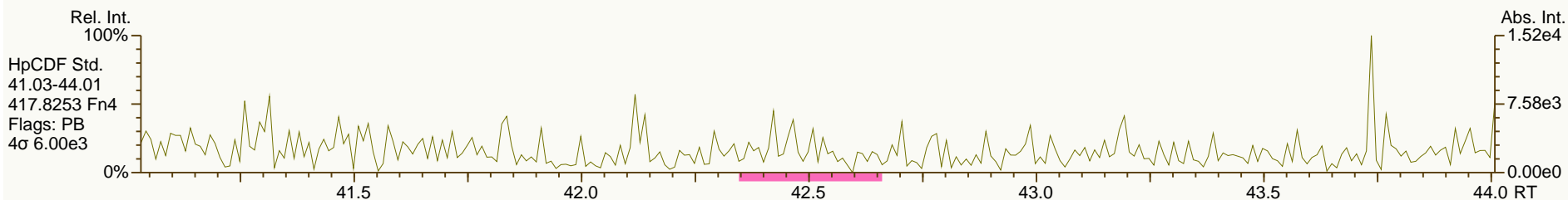
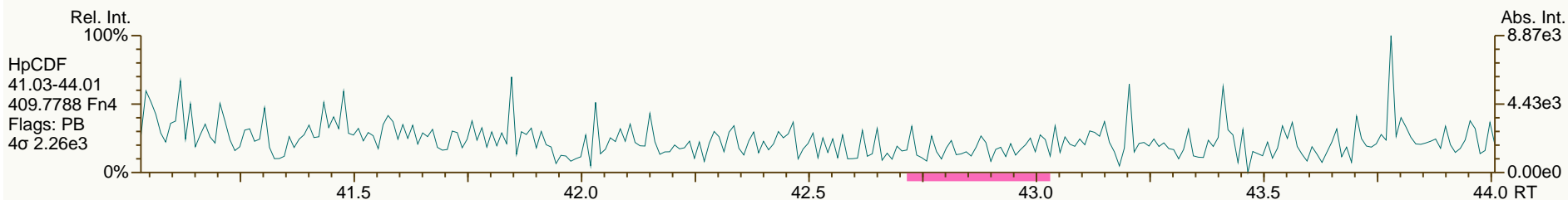
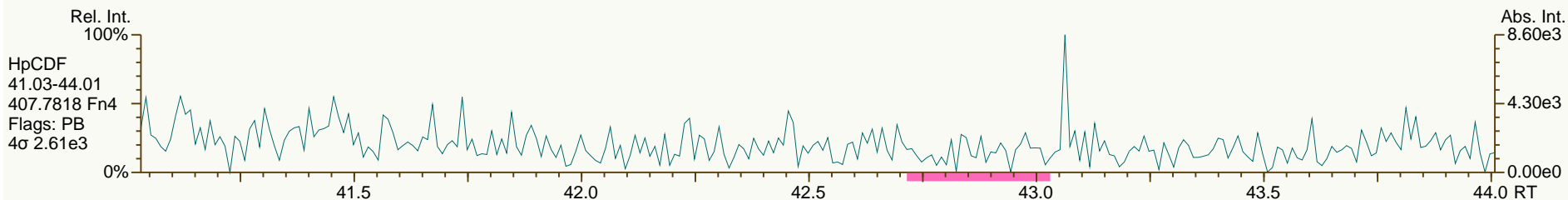
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SGS-AP ID: SBS_131013_DF_PC
Instr: AutoSpec-Ultima MM1

Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

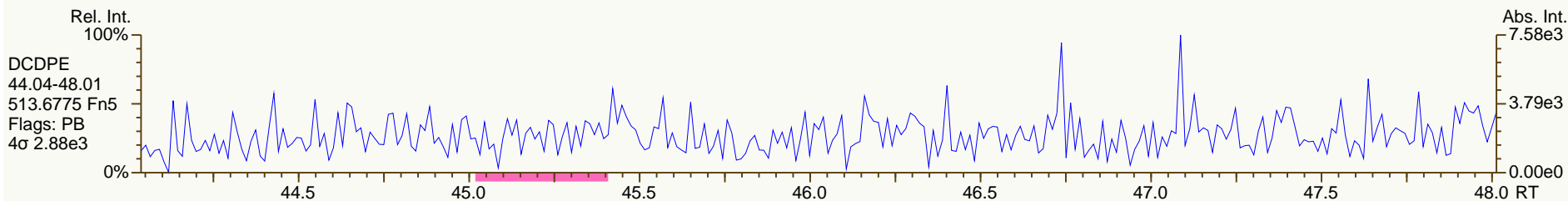
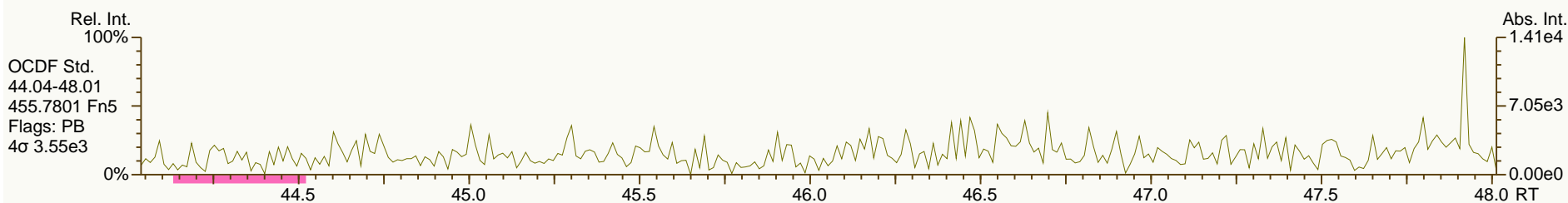
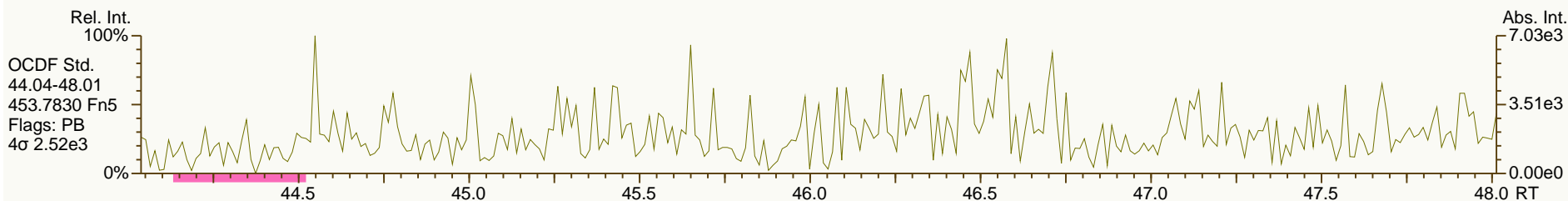
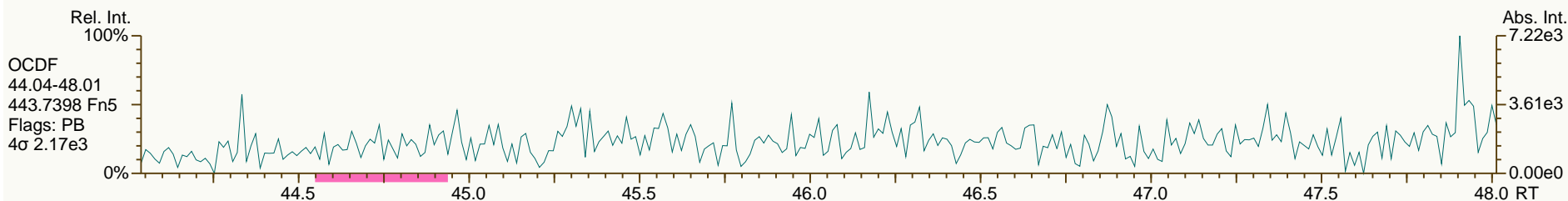
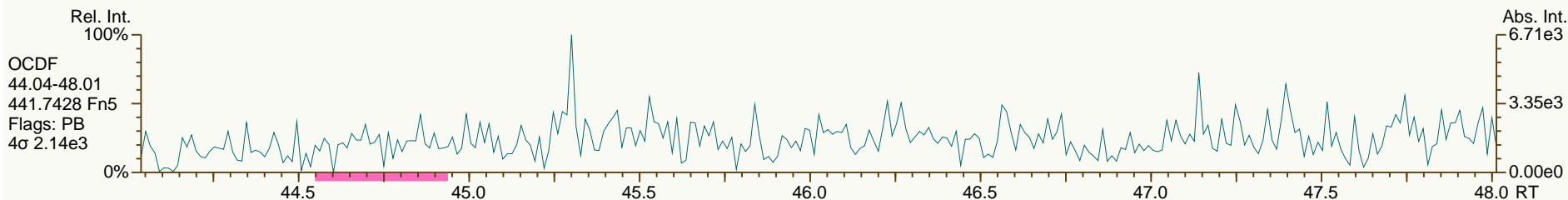
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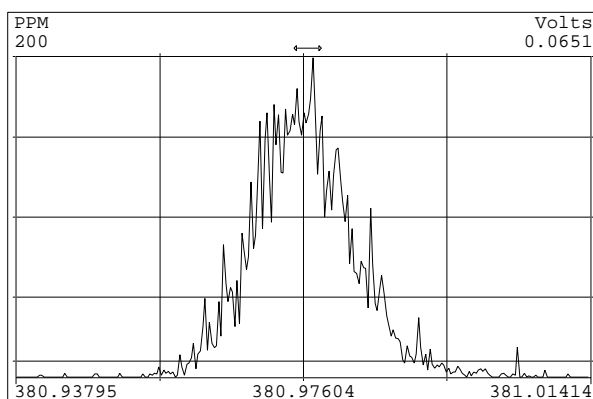
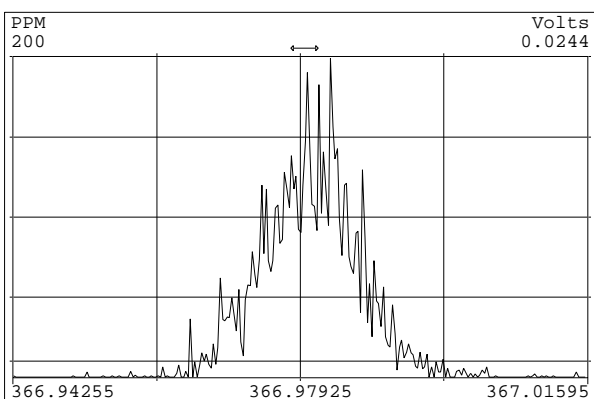
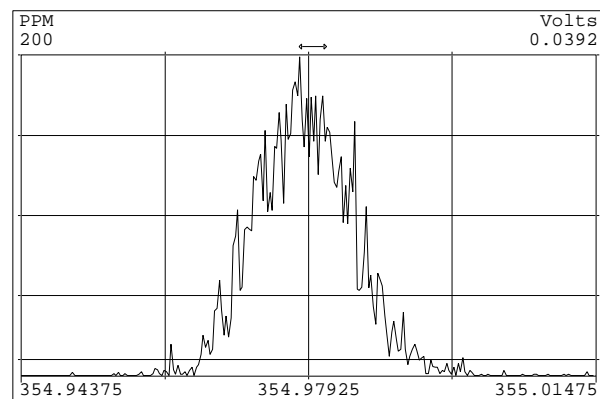
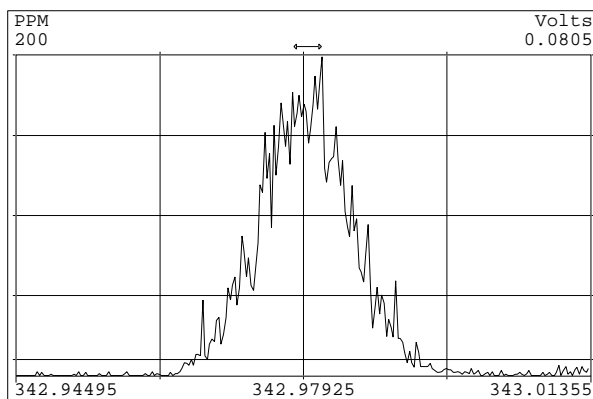
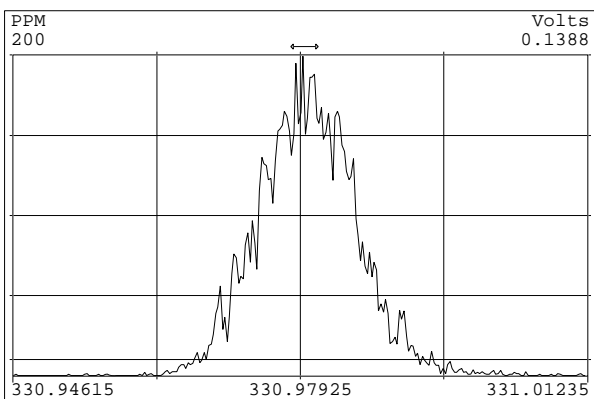
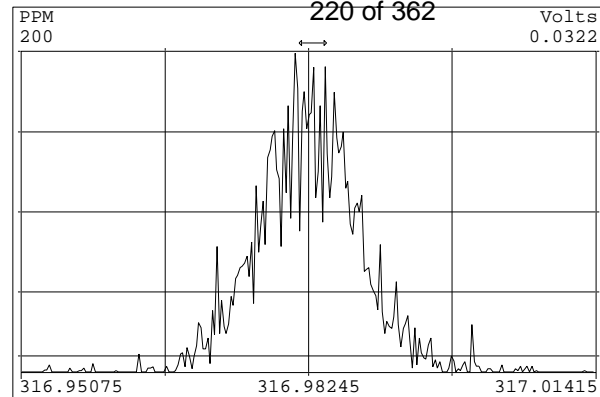
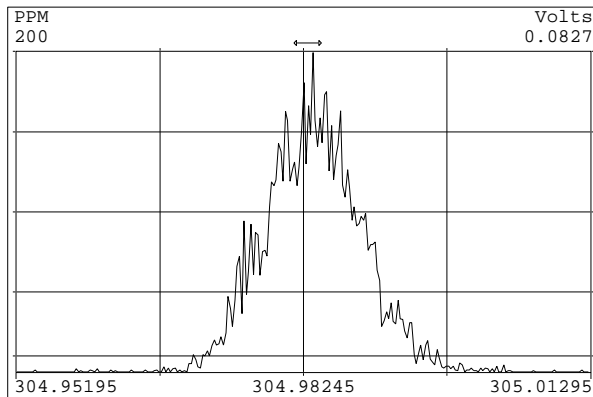
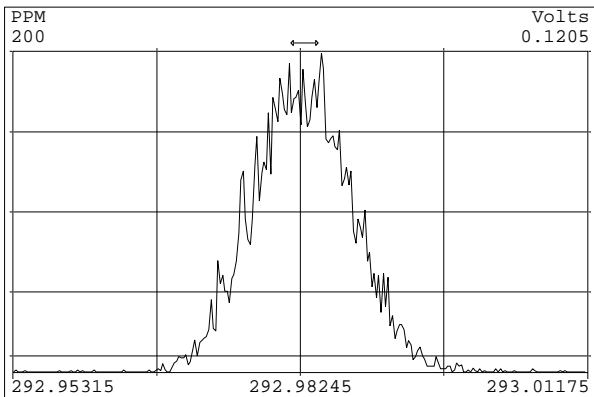


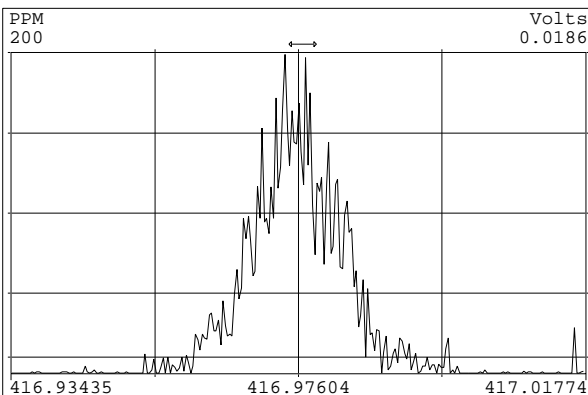
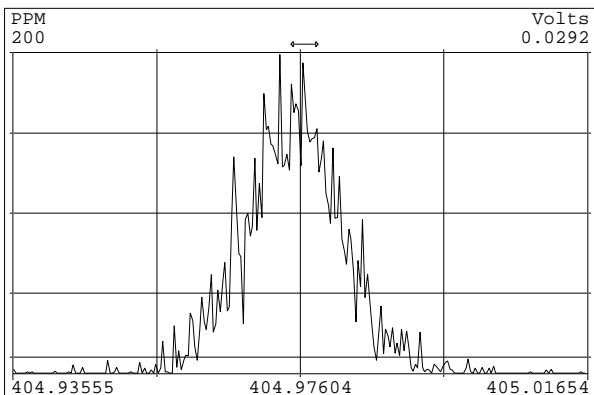
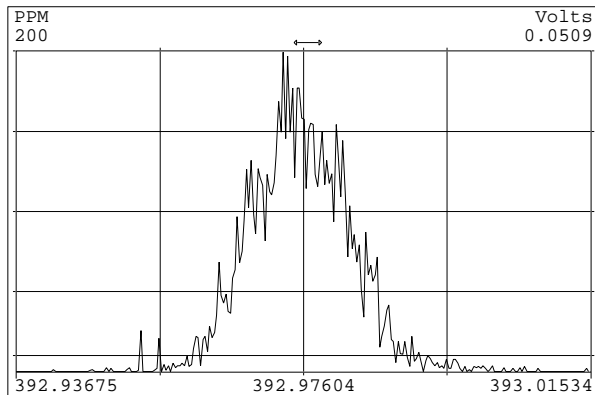
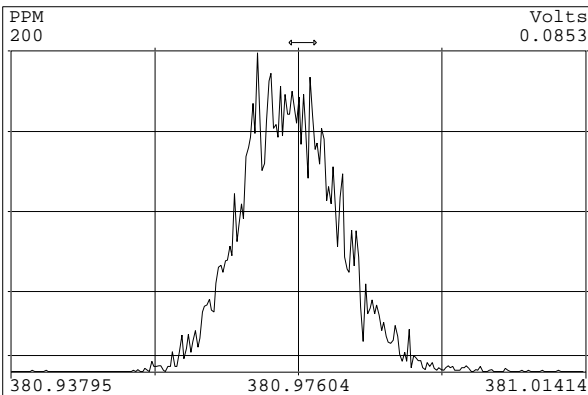
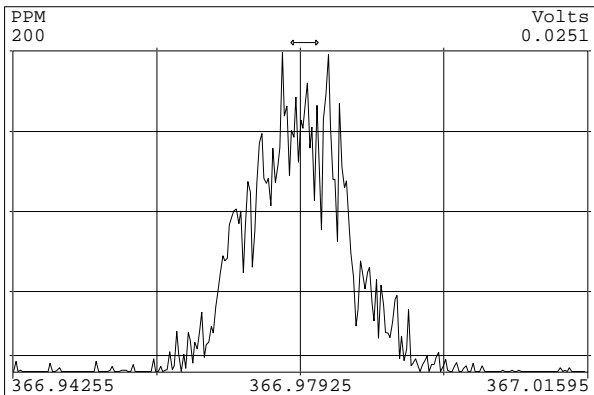
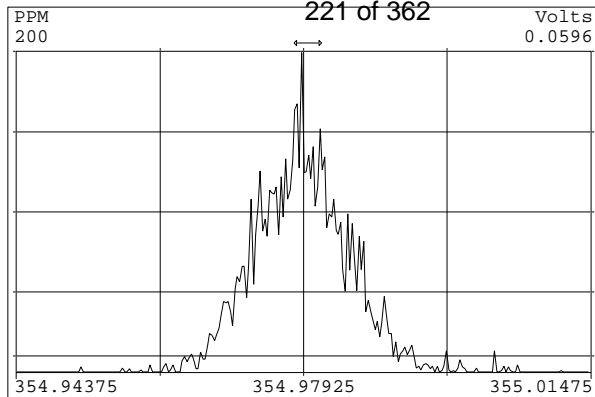
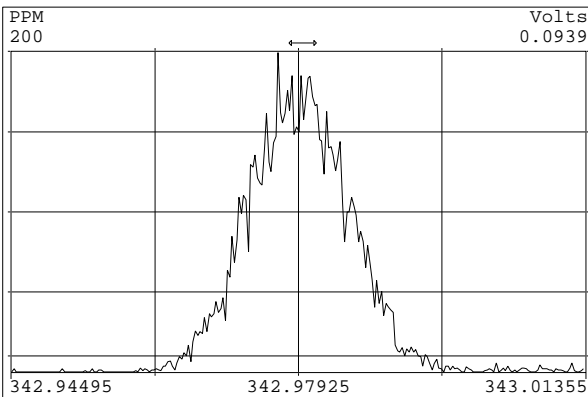
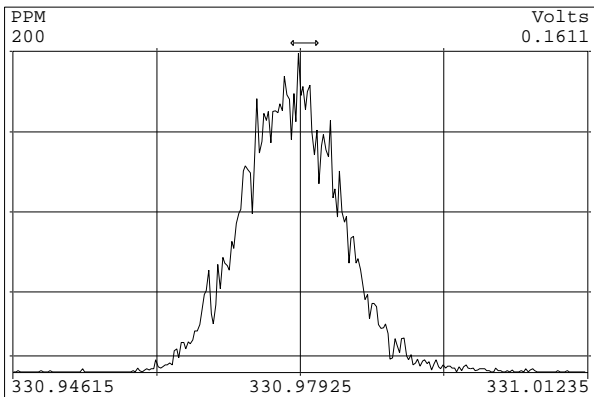
SGS-AP ID: SBS_131013_DF_PC
Instr: AutoSpec-Ultima MM1

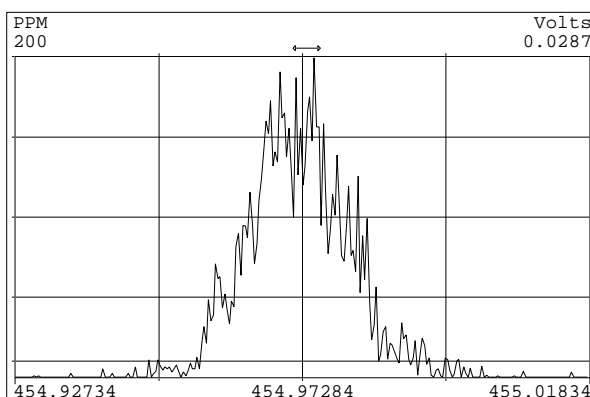
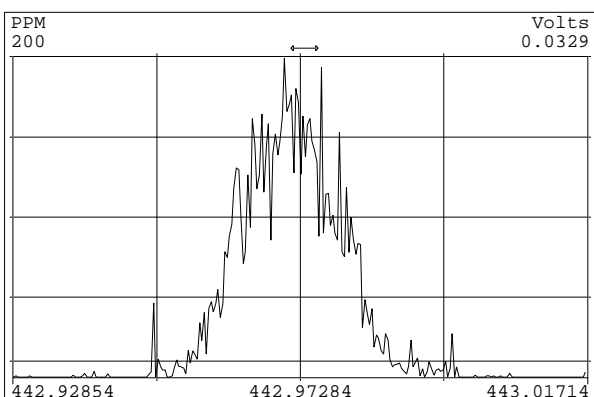
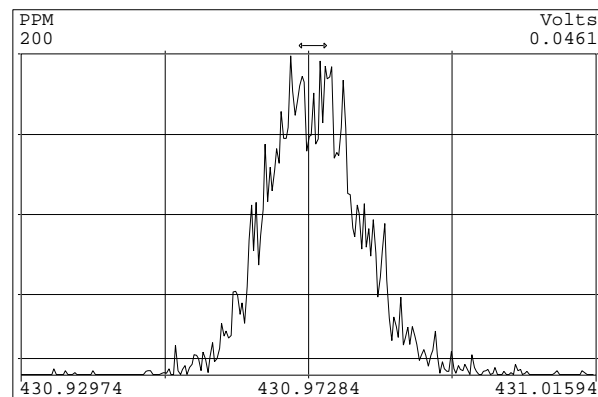
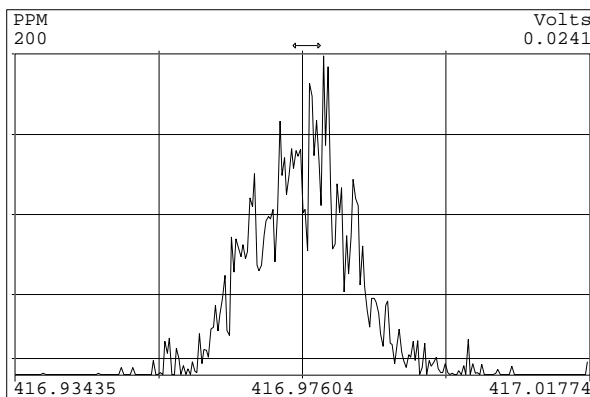
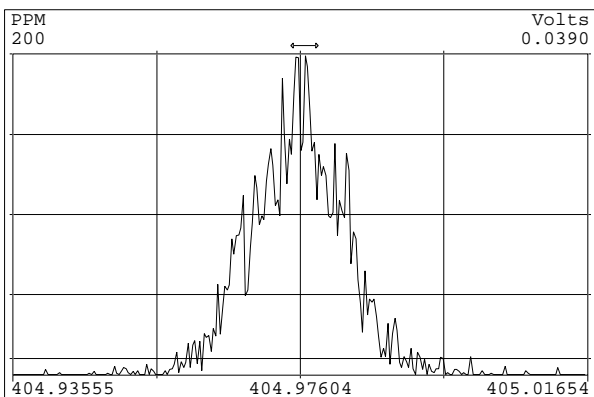
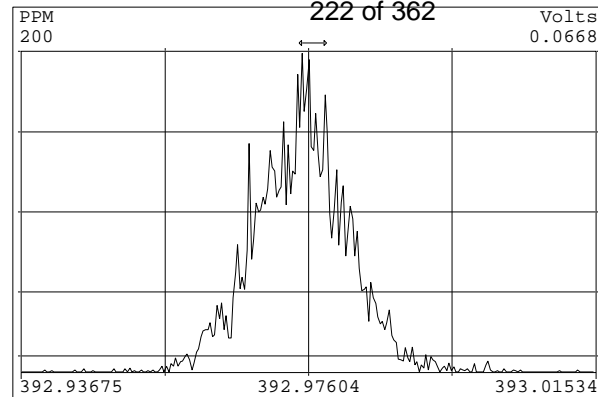
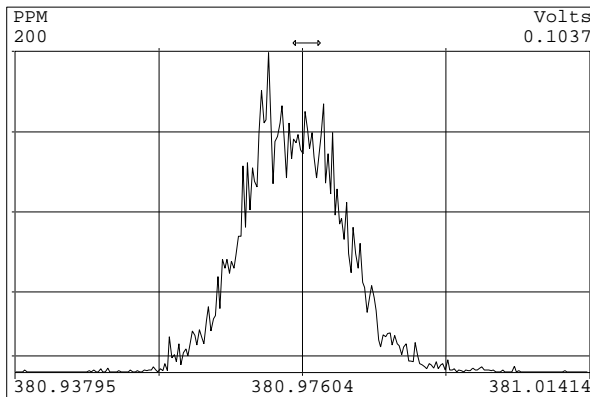
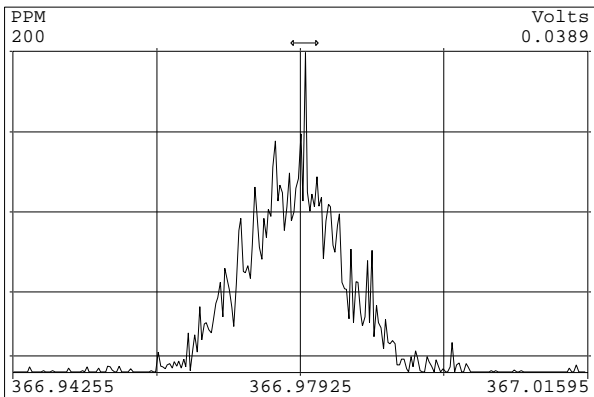
Sample ID: solvent blank
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 15

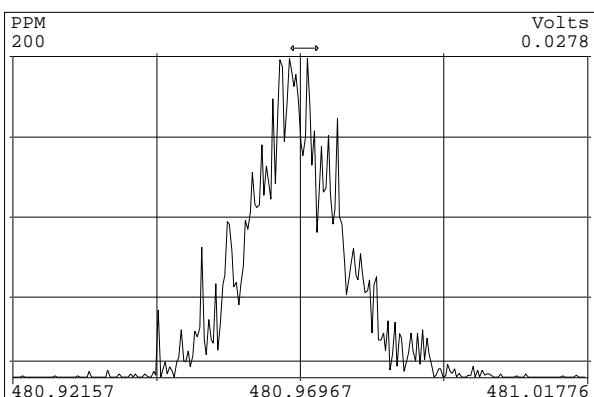
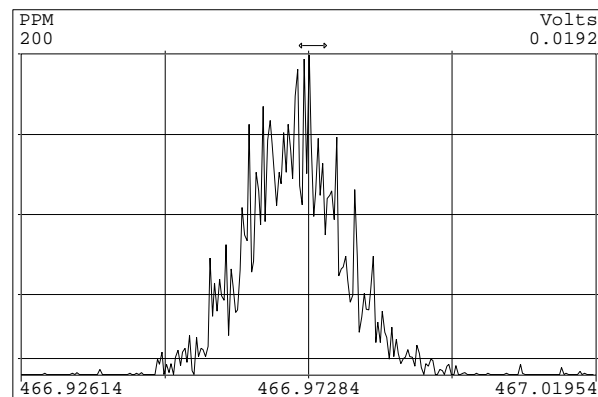
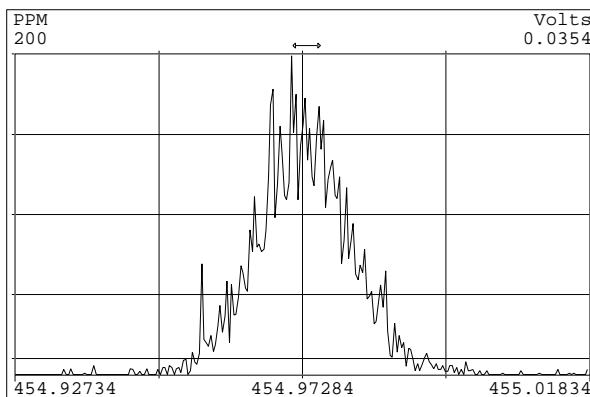
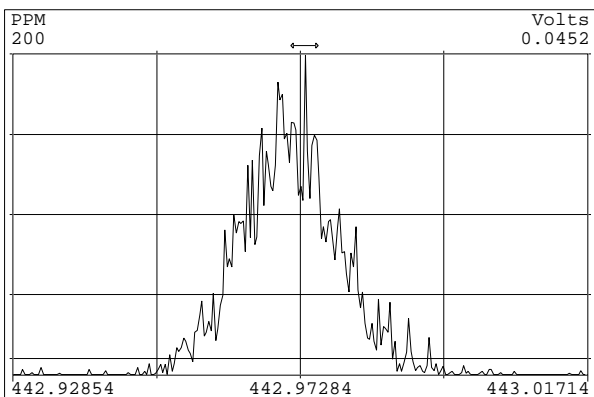
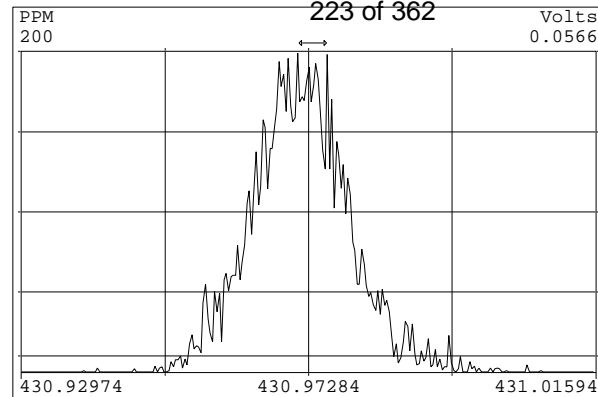
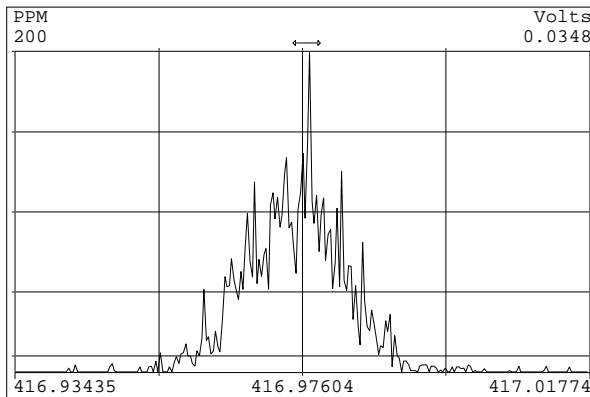
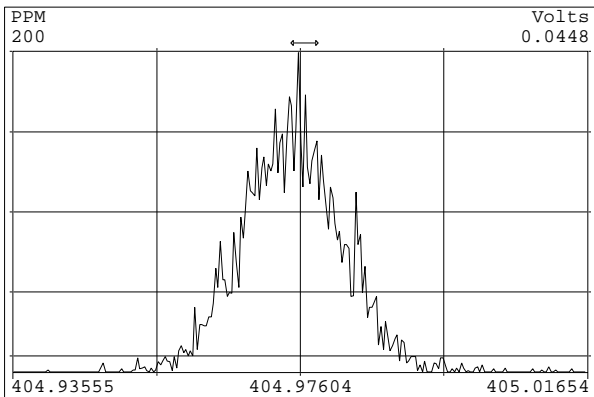
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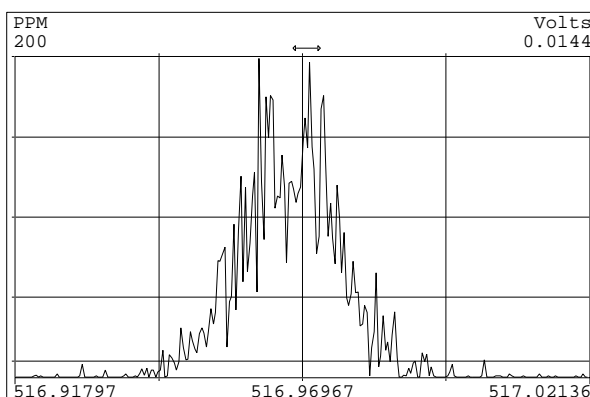
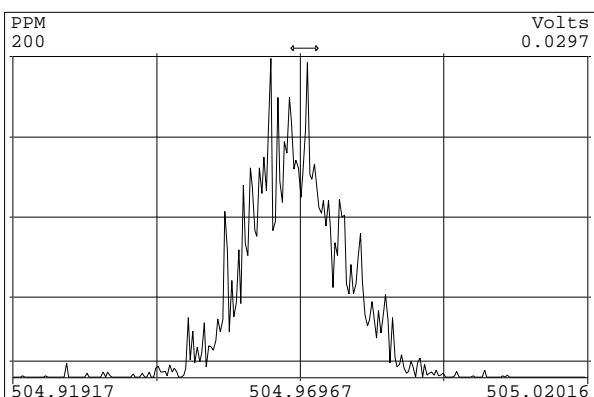
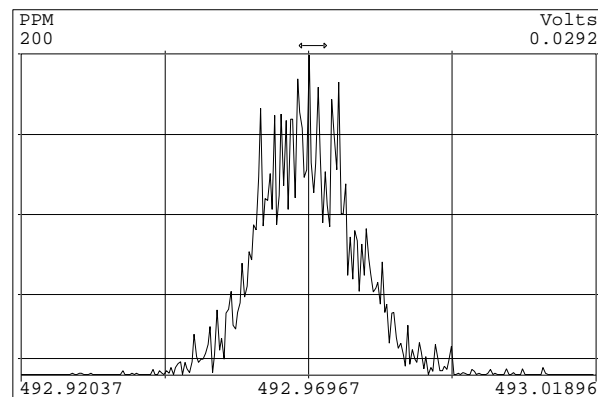
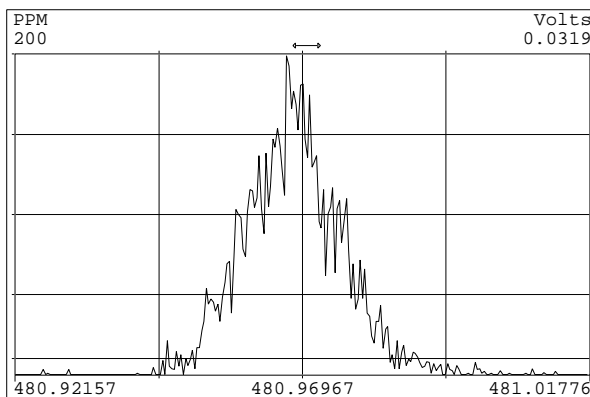
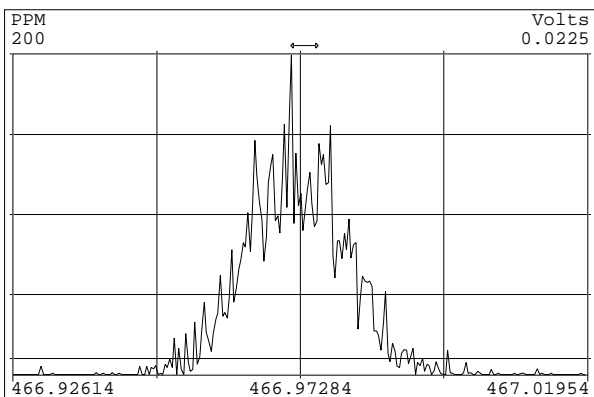
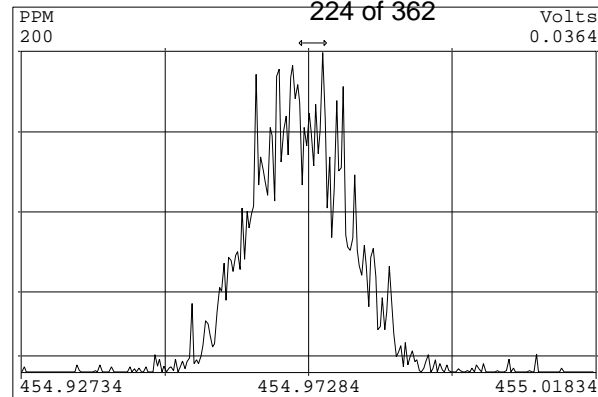
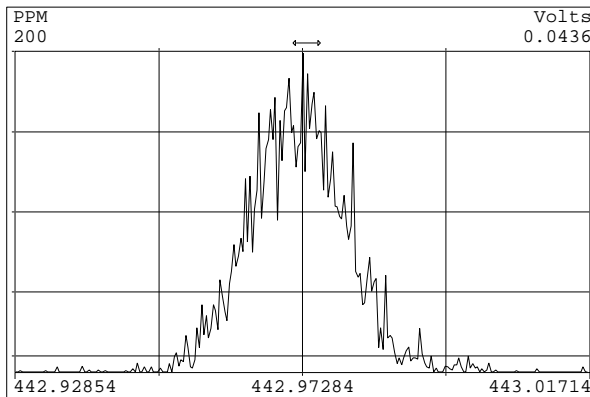
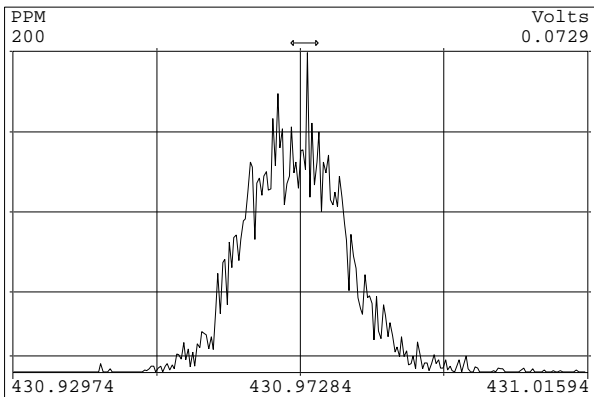


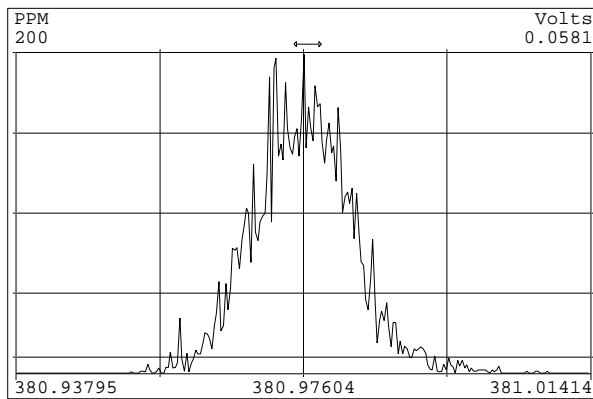
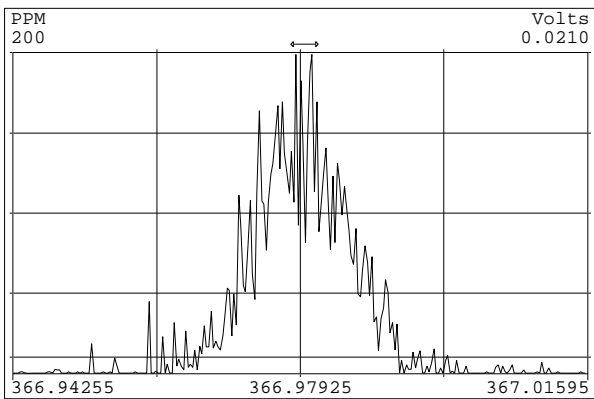
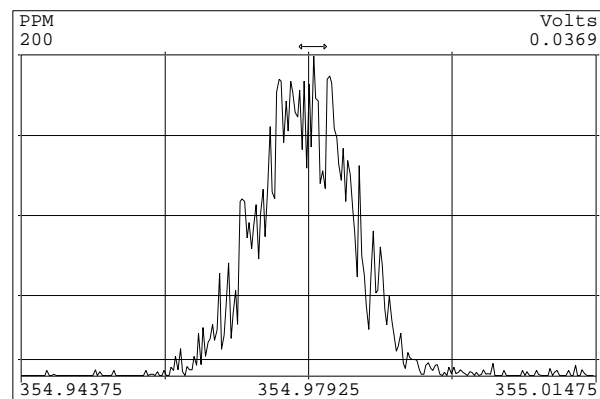
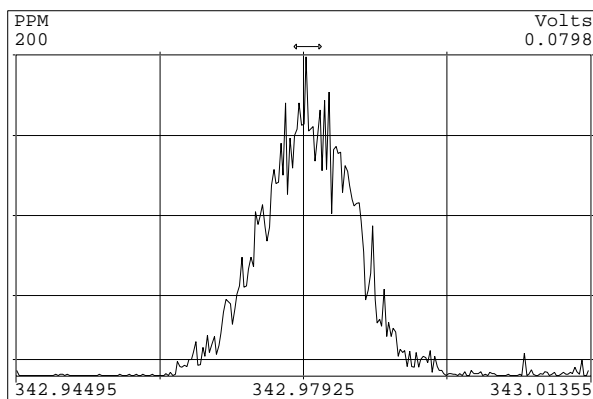
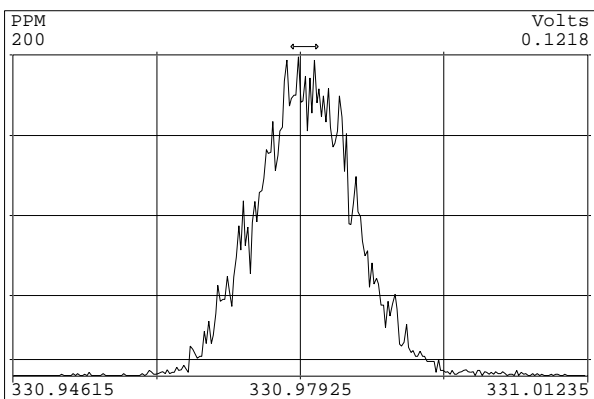
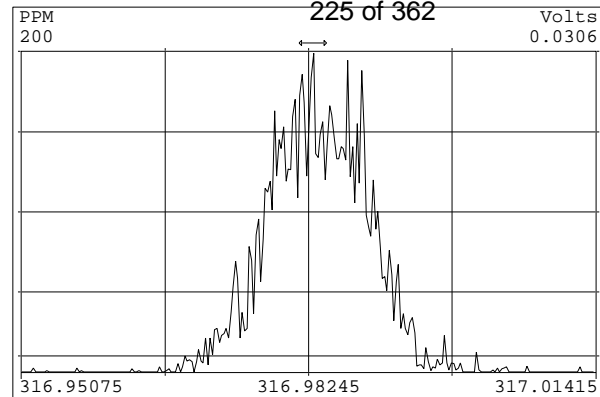
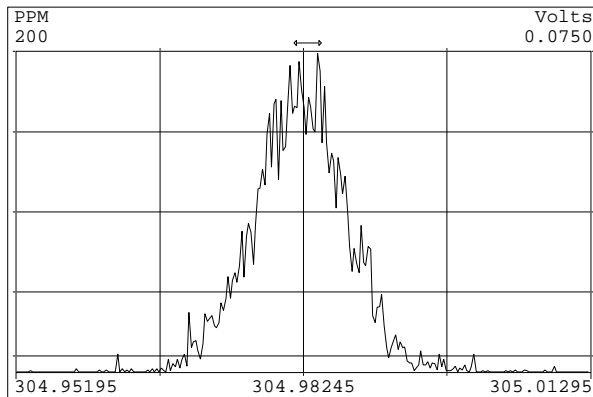
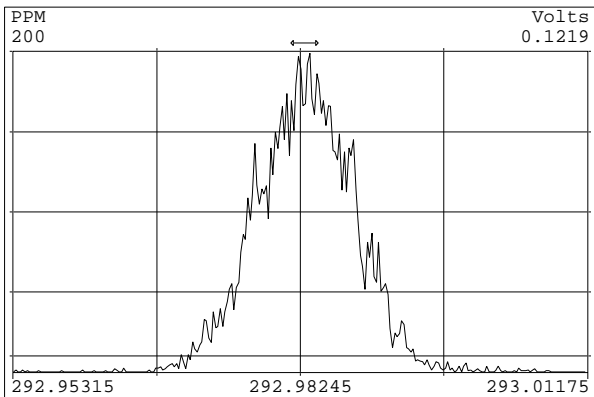


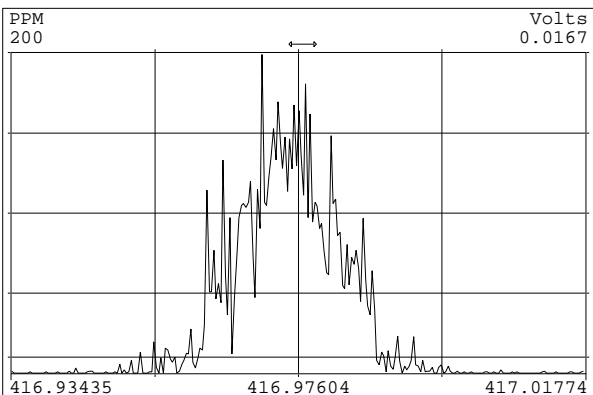
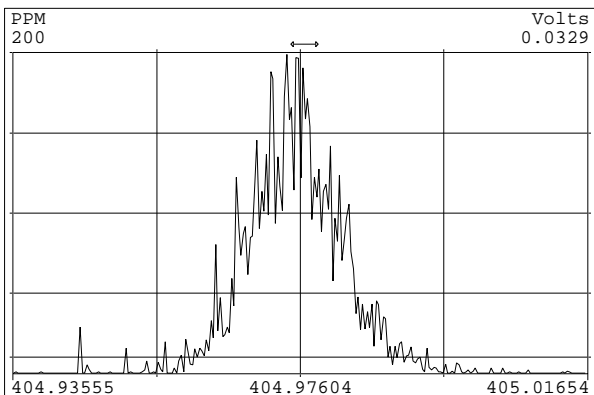
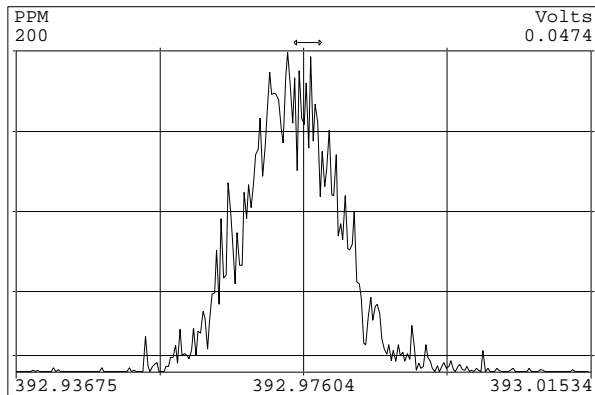
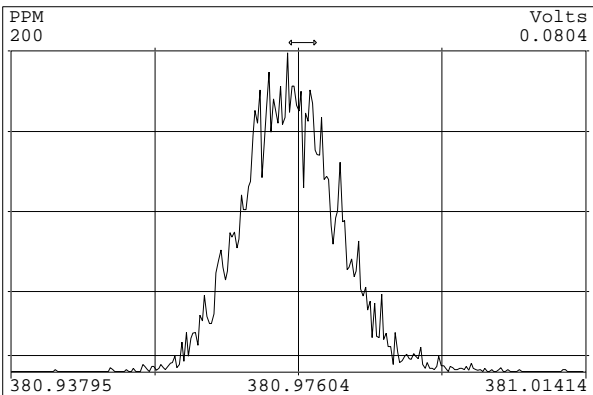
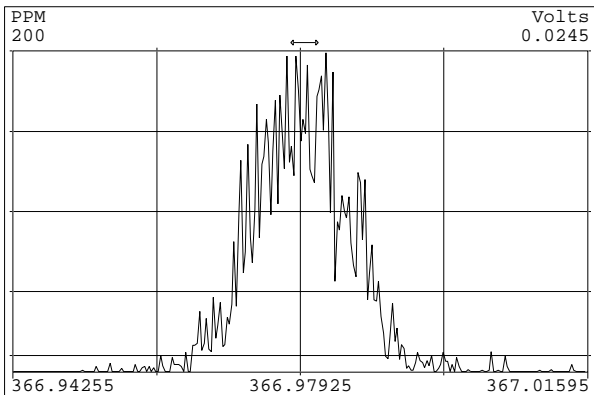
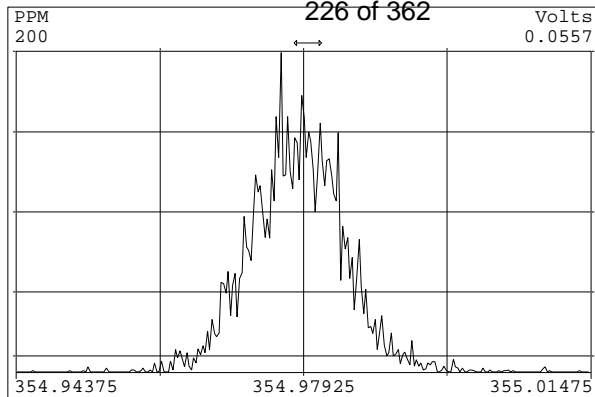
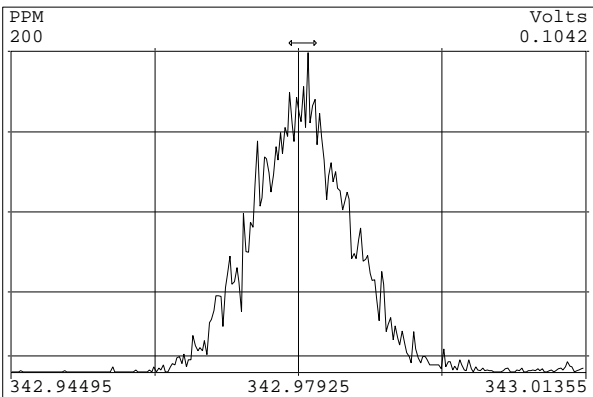
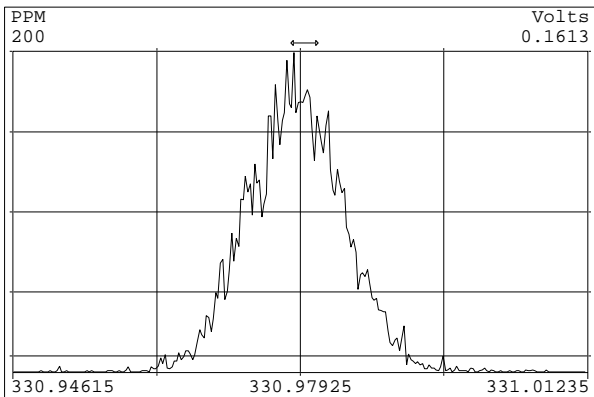


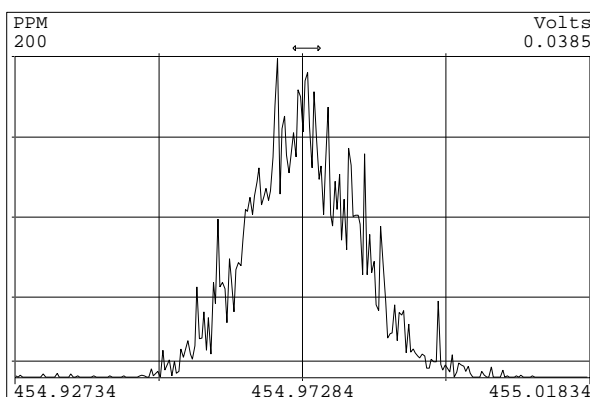
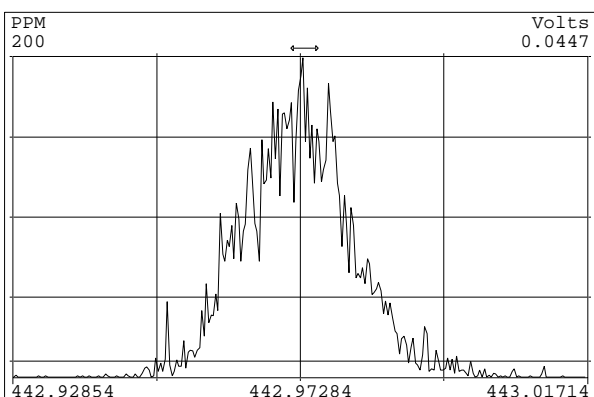
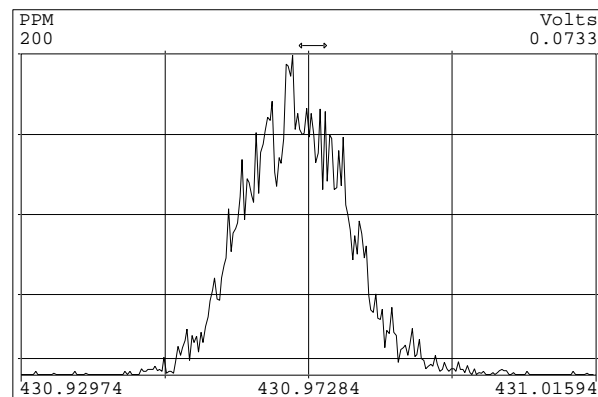
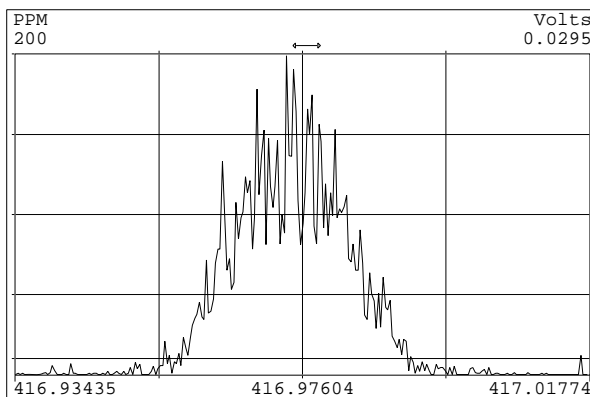
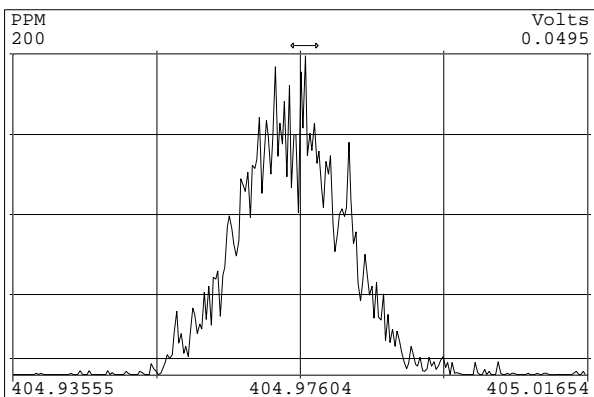
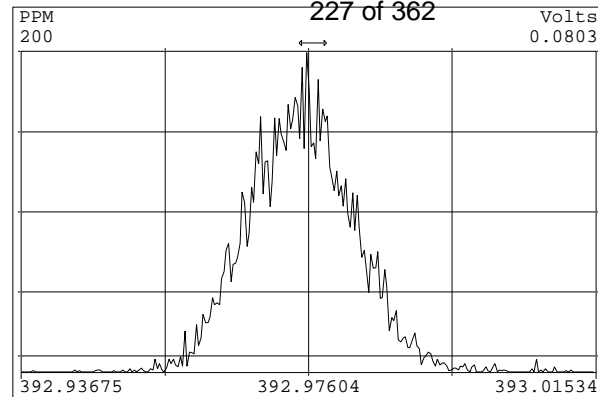
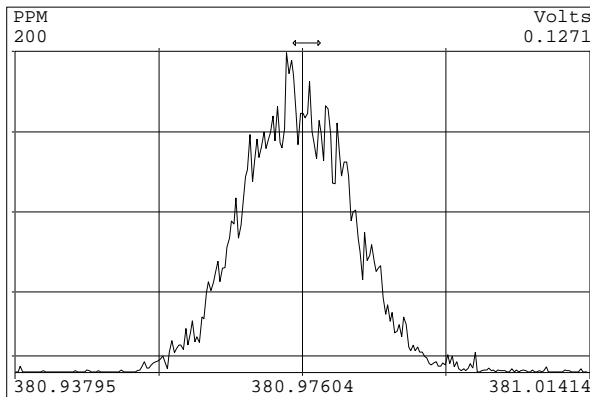
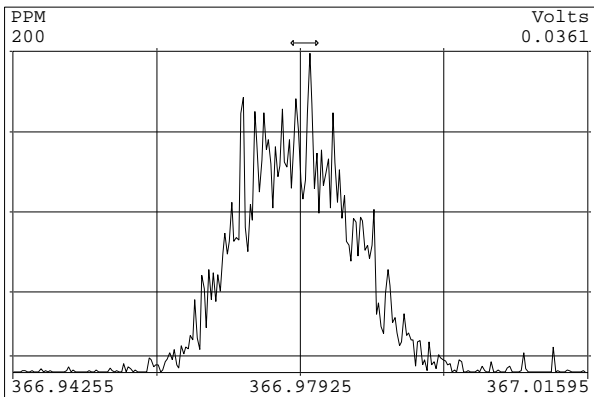


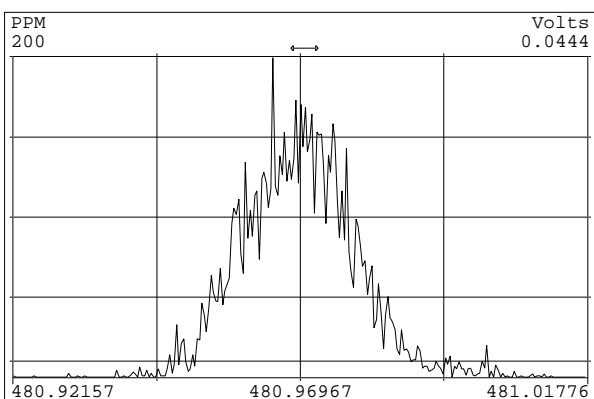
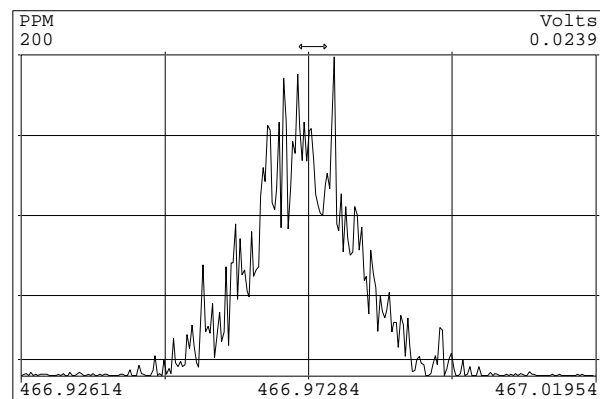
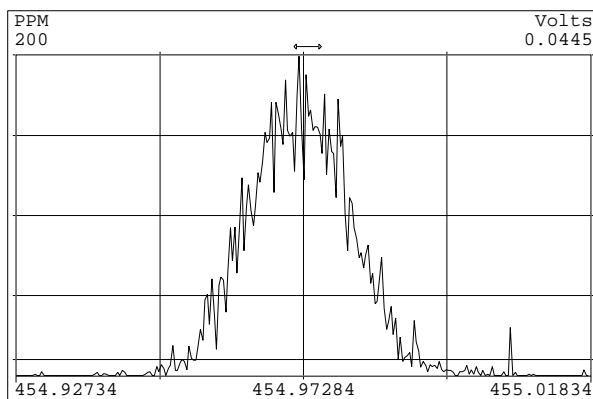
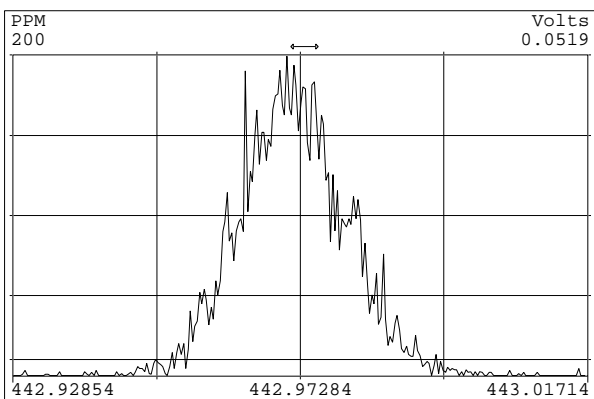
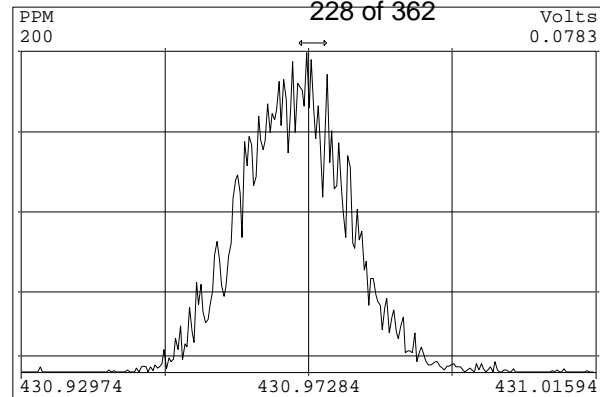
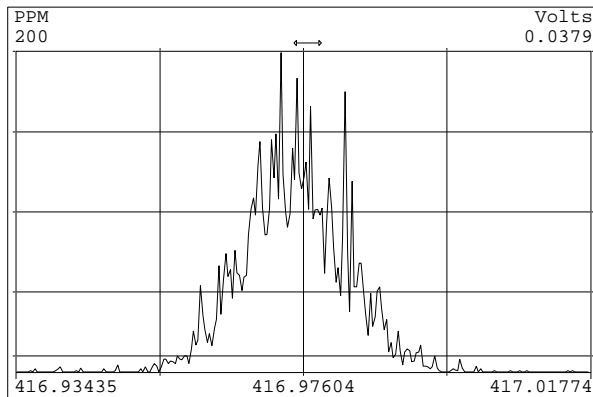
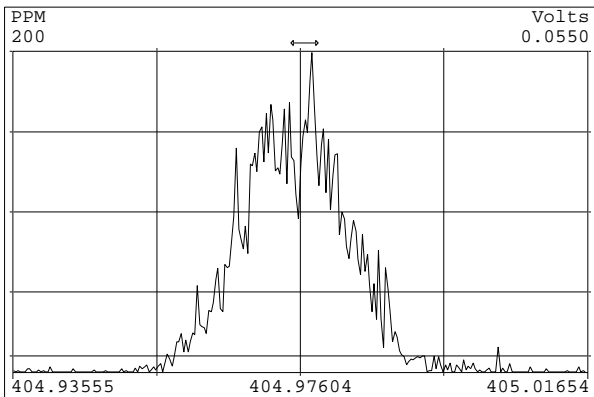


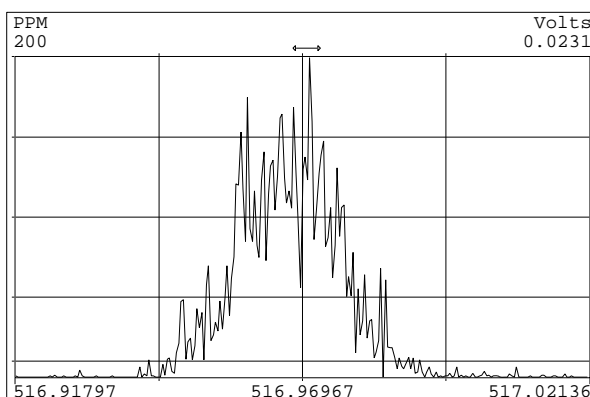
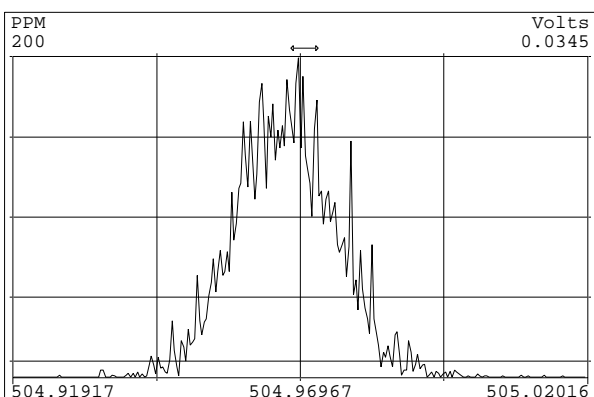
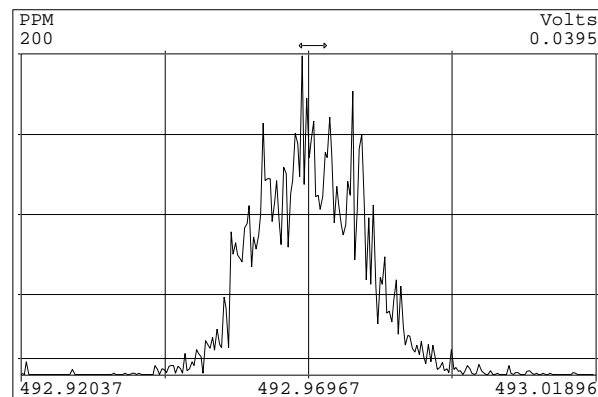
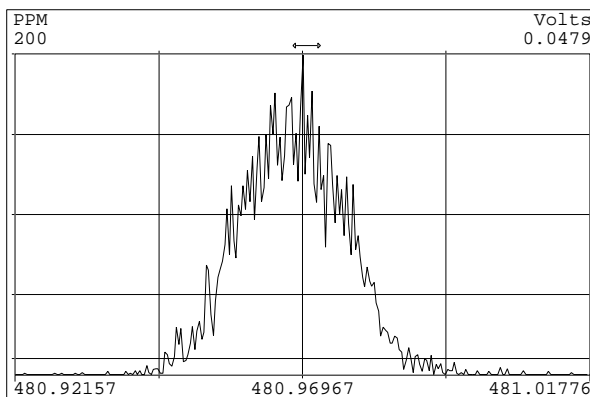
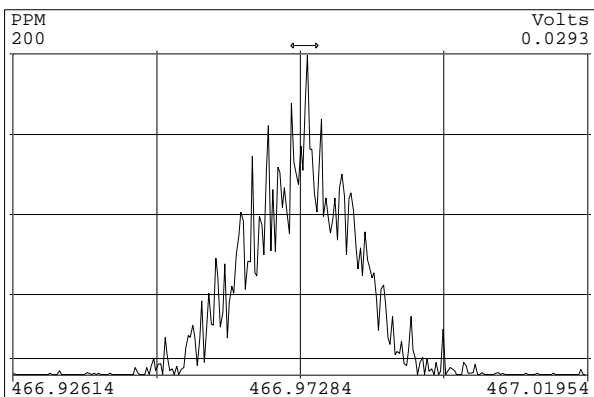
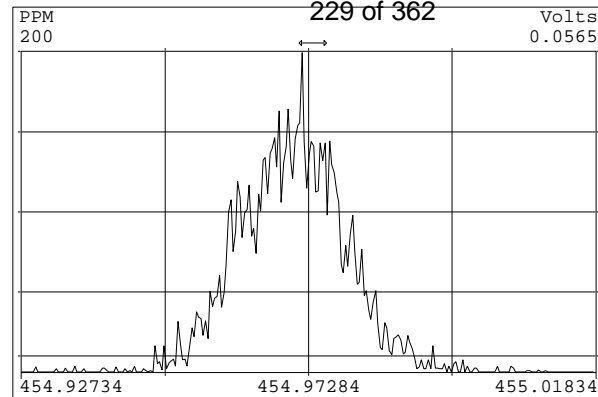
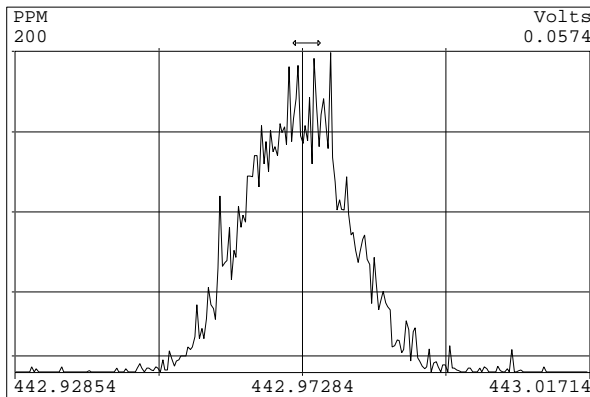
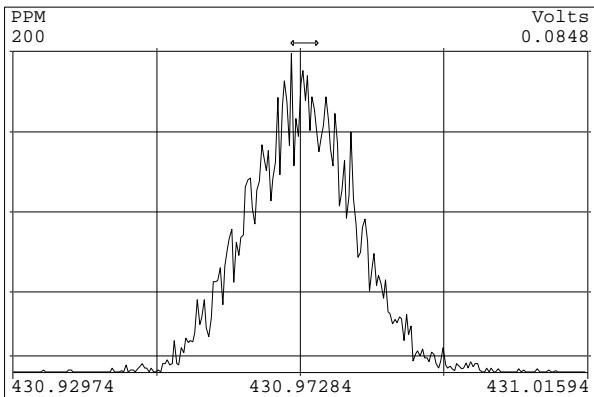












Dioxin/Furan ICAL Summary			SGS Analytical Perspectives						Processed: 19 Sep 2013 09:02	
ICAL: MM1_DF_11012012A_18SEPT2013										
Data Acquired: 18-Sep-2013										
Name	Mean	% RSD	130918P1-02	130918P1-03	130918P1-04	130918P1-05	130918P1-06	130918P1-07	130918P1-08	
			0.25 CS0	0.5 CS1	2.0 CS2	10 CS3	40 CS4	200 CS5	500 CS6	
2378-TCDD	1.18	6.2%	1.02	1.19	1.19	1.22	1.20	1.25	1.20	
12378-PeCDD	1.07	4.1%	1.03	1.02	1.04	1.07	1.10	1.13	1.12	
123478-HxCDD	1.19	4.7%	1.16	1.12	1.12	1.20	1.23	1.25	1.25	
123678-HxCDD	1.19	4.4%	1.13	1.15	1.20	1.17	1.21	1.18	1.29	
123789-HxCDD	1.12	2.4%	1.11	1.07	1.10	1.11	1.13	1.15	1.13	
1234678-HpCDD	1.08	4.2%	1.03	1.03	1.06	1.10	1.11	1.13	1.13	
OCDD	1.14	4.3%	1.08	1.08	1.12	1.16	1.18	1.18	1.20	
2378-TCDF	1.10	4.1%	1.01	1.11	1.12	1.14	1.14	1.09	1.07	
12378-PeCDF	1.17	5.1%	1.06	1.18	1.13	1.17	1.18	1.18	1.26	
23478-PeCDF	1.14	4.0%	1.12	1.15	1.09	1.11	1.14	1.17	1.23	
123478-HxCDF	1.34	3.1%	1.28	1.32	1.30	1.34	1.36	1.37	1.40	
123678-HxCDF	1.23	4.0%	1.17	1.17	1.21	1.23	1.26	1.29	1.29	
234678-HxCDF	1.26	4.6%	1.15	1.24	1.23	1.28	1.30	1.29	1.33	
123789-HxCDF	1.23	5.0%	1.14	1.17	1.20	1.26	1.27	1.29	1.29	
1234678-HpCDF	1.42	5.4%	1.30	1.40	1.35	1.42	1.47	1.49	1.52	
1234789-HpCDF	1.39	4.9%	1.31	1.30	1.35	1.42	1.41	1.45	1.48	
OCDF	1.11	4.0%	1.06	1.06	1.06	1.12	1.14	1.15	1.16	
ES 2378-TCDD	1.02	2.8%	1.02	1.01	1.00	0.99	1.06	1.03	1.06	
ES 12378-PeCDD	0.92	7.8%	0.93	0.86	0.85	0.85	0.94	0.94	1.05	
ES 123478-HxCDD	1.02	6.1%	0.97	0.99	0.99	0.99	1.00	1.08	1.14	
ES 123678-HxCDD	1.01	7.5%	0.96	0.95	0.93	1.00	0.98	1.10	1.13	
ES 123789-HxCDD	1.14	8.0%	1.09	1.09	1.05	1.11	1.13	1.21	1.31	
ES 1234678-HpCDD	1.02	6.0%	1.00	0.98	0.98	0.97	1.02	1.07	1.14	
ES OCDD	0.72	8.9%	0.69	0.68	0.66	0.68	0.72	0.79	0.83	
ES 2378-TCDF	1.01	2.7%	1.00	1.00	0.97	0.99	1.02	1.02	1.05	
ES 12378-PeCDF	0.89	7.5%	0.89	0.83	0.82	0.82	0.91	0.94	0.99	
ES 23478-PeCDF	0.91	6.1%	0.89	0.84	0.86	0.86	0.94	0.95	0.99	
ES 123478-HxCDF	1.53	5.7%	1.45	1.47	1.46	1.52	1.51	1.63	1.67	
ES 123678-HxCDF	1.73	6.6%	1.63	1.65	1.64	1.70	1.68	1.86	1.92	
ES 234678-HxCDF	1.61	5.3%	1.56	1.53	1.55	1.60	1.58	1.72	1.75	
ES 123789-HxCDF	1.39	6.9%	1.36	1.31	1.30	1.33	1.39	1.49	1.55	
ES 1234678-HpCDF	1.20	7.4%	1.14	1.12	1.15	1.16	1.20	1.26	1.38	
ES 1234789-HpCDF	1.07	6.7%	1.02	1.03	1.01	1.01	1.10	1.13	1.19	
ES OCDF	1.04	10.3%	0.99	0.96	0.95	0.96	1.07	1.16	1.22	

Dioxin/Furan ICAL Summary			SGS Analytical Perspectives						Processed: 19 Sep 2013 09:02	
ICAL: MM1_DF_11012012A_18SEPT2013										
Data Acquired: 18-Jun-2009										
Name	Mean	% RSD	130918P1-02	130918P1-03	130918P1-04	130918P1-05	130918P1-06	130918P1-07	130918P1-08	
			0.25 CS0	0.5 CS1	2.0 CS2	10 CS3	40 CS4	200 CS5	500 CS6	
CS 37C1-2378-TCDD	1.13	5.9%	-	1.08	1.07	1.10	1.19	1.21	-	
CS 12347-PeCDD	0.88	3.9%	0.93	0.88	0.84	0.85	0.92	0.86	0.85	
CS 12346-PeCDF	0.90	2.6%	0.92	0.91	0.89	0.91	0.93	0.88	0.86	
CS 123469-HxCDF	1.40	2.4%	1.41	1.41	1.38	1.46	1.39	1.39	1.35	
CS 1234689-HpCDF	1.09	2.1%	1.12	1.07	1.10	1.10	1.12	1.06	1.08	
SS 37C1-2378-TCDD	1.11	4.0%	-	1.07	1.07	1.11	1.13	1.18	-	
SS 12347-PeCDD	0.96	7.5%	1.00	1.02	0.99	0.99	0.98	0.92	0.81	
SS 12346-PeCDF	1.02	8.6%	1.03	1.10	1.09	1.10	1.02	0.94	0.87	
SS 123469-HxCDF	0.81	7.6%	0.87	0.85	0.84	0.86	0.83	0.75	0.71	
SS 1234689-HpCDF	0.91	7.7%	0.98	0.95	0.96	0.95	0.93	0.85	0.79	
AS 1368-TCDD	1.01	1.9%	0.99	1.01	1.03	1.02	1.01	1.01	0.98	
AS 1368-TCDF	1.22	1.0%	1.21	1.22	1.21	1.24	1.22	1.23	1.22	
OCDD-a	0.07	4.5%	-	-	0.07	0.06	0.07	0.07	0.07	
OCDF-a	0.06	5.3%	-	-	0.06	0.06	0.06	0.07	0.07	
Totals										
Total TCDD	1.18	6.2%	1.02	1.19	1.19	1.22	1.20	1.25	1.20	
Total PeCDD	1.07	4.1%	1.03	1.02	1.04	1.07	1.10	1.13	1.12	
Total HxCDD	1.17	3.3%	1.14	1.11	1.14	1.16	1.19	1.20	1.22	
Total HpCDD	1.08	4.2%	1.03	1.03	1.06	1.10	1.11	1.13	1.13	
Total TCDF	1.10	4.1%	1.01	1.11	1.12	1.14	1.14	1.09	1.07	
Total PeCDF	1.16	4.3%	1.09	1.17	1.11	1.14	1.16	1.17	1.24	
Total HxCDF	1.27	4.1%	1.19	1.23	1.23	1.28	1.30	1.31	1.33	
Total HpCDF	1.40	5.0%	1.30	1.35	1.35	1.42	1.44	1.47	1.50	
FS 1278-TCDD	1.18	1.7%	1.20	1.18	1.17	1.20	1.17	1.18	1.14	
FS 12478-PeCDD	1.06	5.5%	1.09	1.12	1.12	1.09	1.05	1.01	0.96	
FS 123468-HxCDD	1.26	7.6%	1.35	1.29	1.31	1.34	1.26	1.18	1.08	
FS 1234679-HpCDD	1.12	7.4%	1.17	1.17	1.18	1.21	1.13	1.03	0.99	
TS 1378-TCDD	1.11	2.5%	1.12	1.12	1.15	1.13	1.09	1.10	1.06	

8290B ICALs

Ax	MM1-DF-010606- 25JAN06	MM1-DF-010606- 16MAR06	MM1_SIL4181_20OCT06	MM1_DF_091806B_06NO V06	MM1_DF_091806B_14MA R07	MM1_DF_091806B_31MA R07	MM1_DF_091806B_16AP R07	MM1_DF_07012007A_06 Aug07
2,3,7,8-TCDD	1	1.06	1.12	1.13	1.03	1.18	1.1	1.13
1,2,3,7,8-PeCDD	0.88	0.93	1.1	0.94	0.9	0.93	0.97	0.99
1,2,3,4,7,8-HxCDD	0.92	1	1.2	1.1	0.98	1.1	1.13	1.12
1,2,3,6,7,8-HxCDD	0.93	1.03	1.06	1.03	0.94	1.03	1.04	1
1,2,3,7,8,9-HxCDD	0.91	0.99	1.07	1	0.9	1.03	1	1.08
1,2,3,4,6,7,8-HpCDD	0.83	0.9	1.08	0.87	0.75	0.94	0.91	0.98
OCDD	0.98	1.04	1.1	0.9	0.81	0.93	0.94	1.1
2,3,7,8-TCDF	0.86	0.99	1.09	1.05	0.97	1.07	1.03	1.04
1,2,3,7,8-PeCDF	0.79	0.89	1.18	0.9	0.83	0.97	0.96	0.96
2,3,4,7,8-PeCDF	0.94	1.08	1.15	0.94	0.87	1	0.99	1
1,2,3,4,7,8-HxCDF	1.02	1.17	1.30	1.03	0.96	1.11	1.13	1.22
1,2,3,6,7,8-HxCDF	0.99	1.12	1.27	1.02	0.94	1.12	1.12	1.17
2,3,4,6,7,8-HxCDF	0.95	1.1	1.24	0.99	0.9	1.07	1.06	1.14
1,2,3,7,8,9-HxCDF	1.03	1.19	1.24	1.03	0.94	1.12	1.12	1.14
1,2,3,4,6,7,8-HpCDF	1.17	1.32	1.46	1.15	0.99	1.18	1.2	1.39
1,2,3,4,7,8,9-HpCDF	1.22	1.37	1.51	1.16	1	1.21	1.2	1.37
OCDF	0.86	0.99	1.07	0.78	0.72	0.86	0.83	0.95
ES								
2,3,7,8-TCDD	1.03	1.03	1.05	1.11	1.1	1.12	1.09	1.05
1,2,3,7,8-PeCDD	0.77	0.83	0.95	1.05	1.02	1	1.02	0.92
1,2,3,4,7,8-HxCDD	1.06	1.09	1.19	1.06	1.04	1.1	1.06	1.09
1,2,3,6,7,8-HxCDD	1.22	1.2	1.3	1.16	1.19	1.16	1.2	1.13
1,2,3,7,8,9-HxCDD	1.26	1.22	1.35	1.24	1.25	1.23	1.25	1.17
1,2,3,4,6,7,8-HpCDD	0.92	0.94	1.11	1.17	1.04	1.01	1.09	1.03
OCDD	0.7	0.68	0.86	0.98	0.8	0.72	0.83	0.68
2,3,7,8-TCDF	0.94	0.96	1.02	1.04	0.97	1.04	1	0.99
1,2,3,7,8-PeCDF	0.73	0.8	0.96	1.05	1.01	0.91	0.9	0.91
2,3,4,7,8-PeCDF	0.67	0.73	0.96	1.05	1.04	0.94	1	0.89
1,2,3,4,7,8-HxCDF	1.24	1.4	1.58	1.65	1.39	1.73	1.64	1.57
1,2,3,6,7,8-HxCDF	1.43	1.55	1.79	1.89	1.65	1.86	1.88	1.71
2,3,4,6,7,8-HxCDF	1.32	1.44	1.66	1.71	1.5	1.75	1.74	1.61
1,2,3,7,8,9-HxCDF	1.16	1.29	1.5	1.52	1.26	1.58	1.53	1.45
1,2,3,4,6,7,8-HpCDF	0.86	1.06	1.28	1.3	1.03	1.28	1.32	1.23
1,2,3,4,7,8,9-HpCDF	0.7	0.83	1.04	1.12	0.85	1.04	1.11	1.01
OCDF	0.85	0.95	1.2	1.39	1.05	1.08	1.26	1.06

8290B ICALs

Ax	MM1_DF_07012007A_26 DEC07	MM1_DF_07012007A_25 DEC08	MM1_DF_SIL4-18- 1_22NOV09	MM1_ical_122509	MM1_DF_03312010_250 CT10	MM1_DF_03312010A_25 DEC10	MM1_DF_7MAY11	MM1_DF_6JUN11
2,3,7,8-TCDD	1.14	1.08	1.11	1.23	1.27	1.21	1.12	1.22
1,2,3,7,8-PeCDD	1.03	1	1.04	1.14	1.16	1.06	0.99	1.03
1,2,3,4,7,8-HxCDD	1.16	1.08	1.19	1.19	1.22	1.17	1.21	1.16
1,2,3,6,7,8-HxCDD	1.04	0.94	1.06	1.09	1.09	1.04	1.05	1.02
1,2,3,7,8,9-HxCDD	1.1	0.99	1.08	1.08	1.12	1.09	1.08	1.06
1,2,3,4,6,7,8-HpCDD	1	0.97	1.05	1.04	1.09	1.03	0.98	1.02
OCDD	1.11	1.06	1.11	1.1	1.11	1.07	0.97	1.06
2,3,7,8-TCDF	1.15	1.05	1.06	1.13	1.24	1.14	1.00	1.09
1,2,3,7,8-PeCDF	1.05	0.98	1.14	1.16	1.10	1.01	0.95	1.00
2,3,4,7,8-PeCDF	1.09	1.01	1.1	1.13	1.20	1.10	1.02	1.08
1,2,3,4,7,8-HxCDF	1.28	1.22	1.26	1.26	1.34	1.27	1.18	1.25
1,2,3,6,7,8-HxCDF	1.2	1.15	1.24	1.25	1.33	1.24	1.15	1.22
2,3,4,6,7,8-HxCDF	1.18	1.13	1.19	1.18	1.27	1.18	1.09	1.16
1,2,3,7,8,9-HxCDF	1.19	1.12	1.23	1.2	1.32	1.22	1.13	1.20
1,2,3,4,6,7,8-HpCDF	1.42	1.37	1.41	1.39	1.44	1.39	1.29	1.44
1,2,3,4,7,8,9-HpCDF	1.4	1.32	1.46	1.42	1.52	1.43	1.34	1.48
OCDF	0.97	0.94	1.03	1.01	1.09	1.01	0.95	0.99
ES								
2,3,7,8-TCDD	1.02	0.99	1.04	1.04	1.04	1.05	1.01	1.02
1,2,3,7,8-PeCDD	0.96	0.83	0.91	0.96	1.11	0.98	0.78	0.94
1,2,3,4,7,8-HxCDD	1.12	1.08	1	1.01	1.02	1.05	1.00	1.02
1,2,3,6,7,8-HxCDD	1.23	1.23	1.14	1.14	1.18	1.20	1.30	1.21
1,2,3,7,8,9-HxCDD	1.23	1.21	1.14	1.14	1.18	1.19	1.25	1.18
1,2,3,4,6,7,8-HpCDD	1.14	0.98	0.99	0.98	0.99	0.94	0.96	0.88
OCDD	0.72	0.66	0.7	0.76	0.75	0.75	0.76	0.67
2,3,7,8-TCDF	0.94	0.96	1	0.94	1.00	1.00	0.98	1.02
1,2,3,7,8-PeCDF	0.97	0.85	0.93	0.95	1.12	0.92	0.78	0.93
2,3,4,7,8-PeCDF	0.97	0.88	0.94	0.9	1.10	0.90	0.76	0.89
1,2,3,4,7,8-HxCDF	1.66	1.47	1.35	1.5	1.59	1.60	1.55	1.52
1,2,3,6,7,8-HxCDF	1.99	1.78	1.53	1.63	1.76	1.80	1.85	1.80
2,3,4,6,7,8-HxCDF	1.77	1.61	1.45	1.5	1.67	1.67	1.72	1.65
1,2,3,7,8,9-HxCDF	1.57	1.4	1.25	1.32	1.39	1.39	1.37	1.38
1,2,3,4,6,7,8-HpCDF	1.35	1.16	1.17	1.11	1.21	1.20	1.14	1.12
1,2,3,4,7,8,9-HpCDF	1.09	0.92	0.93	0.92	1.03	0.96	0.89	0.90
OCDF	1.16	1.04	1.02	1.07	1.16	1.14	1.05	1.03

8290B ICALs

Ax	MM1_DF_03312010A_13 SEP11	MM1_DF_03312010A_23 SEP11	MM1_11012012A_DF_13 FEB2013	MM1_11012012A_DF_ 18SEPT2013	RSD	Mean	sd	PD from Mean
2,3,7,8-TCDD	1.19	1.14	1.06	1.18	5.6	1.14	0.06	4%
1,2,3,7,8-PeCDD	1.07	1.03	0.94	1.07	6.5	1.01	0.07	6%
1,2,3,4,7,8-HxCDD	1.16	1.09	1.02	1.19	6.6	1.11	0.07	7%
1,2,3,6,7,8-HxCDD	1.00	1.00	1.04	1.19	6.0	1.05	0.06	13%
1,2,3,7,8,9-HxCDD	1.07	1.04	0.98	1.12	5.7	1.03	0.06	9%
1,2,3,4,6,7,8-HpCDD	1.02	1.00	1.02	1.08	7.7	0.98	0.07	11%
OCDD	1.05	1.07	1.08	1.14	7.5	1.02	0.08	12%
2,3,7,8-TCDF	1.07	1.03	0.97	1.10	7.4	1.04	0.08	5%
1,2,3,7,8-PeCDF	0.95	0.96	1.00	1.17	9.3	1.00	0.09	16%
2,3,4,7,8-PeCDF	1.03	1.04	0.96	1.14	7.2	1.04	0.07	11%
1,2,3,4,7,8-HxCDF	1.21	1.20	1.23	1.34	8.1	1.18	0.10	14%
1,2,3,6,7,8-HxCDF	1.18	1.18	1.14	1.23	7.1	1.16	0.08	6%
2,3,4,6,7,8-HxCDF	1.12	1.12	1.14	1.26	7.9	1.12	0.09	13%
1,2,3,7,8,9-HxCDF	1.17	1.17	1.13	1.23	6.6	1.15	0.08	7%
1,2,3,4,6,7,8-HpCDF	1.34	1.34	1.34	1.42	7.9	1.34	0.11	6%
1,2,3,4,7,8,9-HpCDF	1.37	1.38	1.30	1.39	8.3	1.35	0.11	3%
OCDF	0.98	0.98	1.00	1.11	8.7	0.96	0.08	15%
ES								
2,3,7,8-TCDD	1.05	1.02	1.01	1.02	5.1	1.08	0.05	-5%
1,2,3,7,8-PeCDD	0.92	0.86	0.90	0.92	8.3	0.94	0.08	-2%
1,2,3,4,7,8-HxCDD	1.03	1.04	0.99	1.02	4.0	1.05	0.04	-2%
1,2,3,6,7,8-HxCDD	1.16	1.18	1.02	1.01	6.3	1.15	0.07	-13%
1,2,3,7,8,9-HxCDD	1.17	1.16	1.12	1.14	4.4	1.20	0.05	-5%
1,2,3,4,6,7,8-HpCDD	1.00	0.94	0.90	1.02	8.8	0.97	0.09	5%
OCDD	0.85	0.72	0.74	0.72	11.2	0.76	0.08	-5%
2,3,7,8-TCDF	1.00	1.01	1.05	1.01	3.3	1.00	0.03	1%
1,2,3,7,8-PeCDF	0.87	0.85	0.88	0.89	10.1	0.88	0.09	1%
2,3,4,7,8-PeCDF	0.88	0.85	0.91	0.91	10.1	0.90	0.09	1%
1,2,3,4,7,8-HxCDF	1.41	1.41	1.25	1.53	8.7	1.50	0.13	2%
1,2,3,6,7,8-HxCDF	1.54	1.58	1.40	1.73	9.5	1.67	0.16	3%
2,3,4,6,7,8-HxCDF	1.49	1.48	1.29	1.61	8.4	1.57	0.13	3%
1,2,3,7,8,9-HxCDF	1.34	1.32	1.17	1.39	9.1	1.35	0.12	3%
1,2,3,4,6,7,8-HpCDF	1.13	1.10	1.03	1.20	10.9	1.13	0.12	6%
1,2,3,4,7,8,9-HpCDF	0.96	0.90	0.89	1.07	12.7	0.92	0.12	16%
OCDF	1.22	1.09	1.00	1.04	12.4	1.08	0.13	-3%

Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 11:39 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS0		UTP: 18-Sep-2013 12:51 MDC			Checkcode: 304-784-ZJK		
Sample ID: 11012012A		Report: 19 Sep 2013 09:11 MC			Datafile: 130918P1-02		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.58	1.98E+05	0.84	Y	1.18	1.02	-13%
12378-PeCDD	33.85	9.11E+05	1.61	Y	1.07	1.03	-4%
123478-HxCDD	38.49	8.27E+05	1.31	Y	1.19	1.16	-3%
123678-HxCDD	38.62	8.08E+05	1.31	Y	1.19	1.13	-5%
123789-HxCDD	38.96	8.98E+05	1.17	Y	1.12	1.11	0%
1234678-HpCDD	42.64	7.56E+05	1.02	Y	1.08	1.03	-5%
OCDD	46.38	1.10E+06	0.87	Y	1.14	1.08	-6%
2378-TCDF	26.59	3.11E+05	0.79	Y	1.10	1.01	-8%
12378-PeCDF	32.12	1.45E+06	1.63	Y	1.17	1.06	-9%
23478-PeCDF	33.44	1.53E+06	1.56	Y	1.14	1.12	-2%
123478-HxCDF	37.32	1.38E+06	1.24	Y	1.34	1.28	-4%
123678-HxCDF	37.49	1.41E+06	1.37	Y	1.23	1.17	-5%
234678-HxCDF	38.27	1.33E+06	1.29	Y	1.26	1.15	-8%
123789-HxCDF	39.38	1.15E+06	1.34	Y	1.23	1.14	-8%
1234678-HpCDF	41.36	1.10E+06	1.00	Y	1.42	1.30	-9%
1234789-HpCDF	43.24	9.89E+05	1.12	Y	1.39	1.31	-6%
OCDF	46.62	1.56E+06	0.93	Y	1.11	1.06	-4%
ES 2378-TCDD	27.55	7.76E+07	0.81	Y	1.02	1.02	0%
ES 12378-PeCDD	33.83	7.05E+07	1.62	Y	0.92	0.93	1%
ES 123478-HxCDD	38.47	5.71E+07	1.16	Y	1.02	0.97	-6%
ES 123678-HxCDD	38.61	5.70E+07	1.17	Y	1.01	0.96	-4%
ES 123789-HxCDD	38.94	6.44E+07	1.18	Y	1.14	1.09	-4%
ES 1234678-HpCDD	42.62	5.88E+07	1.06	Y	1.02	1.00	-3%
ES OCDD	46.36	8.16E+07	0.88	Y	0.72	0.69	-4%
ES 2378-TCDF	26.57	1.23E+08	0.69	Y	1.01	1.00	-1%
ES 12378-PeCDF	32.10	1.09E+08	1.49	Y	0.89	0.89	0%
ES 23478-PeCDF	33.42	1.09E+08	1.45	Y	0.91	0.89	-2%
ES 123478-HxCDF	37.30	8.59E+07	0.53	Y	1.53	1.45	-5%
ES 123678-HxCDF	37.47	9.63E+07	0.54	Y	1.73	1.63	-6%
ES 234678-HxCDF	38.25	9.20E+07	0.53	Y	1.61	1.56	-3%
ES 123789-HxCDF	39.36	8.05E+07	0.53	Y	1.39	1.36	-2%
ES 1234678-HpCDF	41.35	6.76E+07	0.45	Y	1.20	1.14	-5%
ES 1234789-HpCDF	43.23	6.05E+07	0.44	Y	1.07	1.02	-4%
ES OCDF	46.61	1.17E+08	0.91	Y	1.04	0.99	-5%

SGS Analytical Perspectives — Run Log

Project: MM1_DF_11012012A_18SEPT2013

Instrument: MM1 (AutoSpec-Ultima)

MS Experiment: DF_CL4-8B

GC Program: DB5MS_60M

#	Datafile	Vial#	Lab ID	Wt/Vol	Client/Sample ID	Analyst(s)	Checkcode	Acq Date	Acq Time
1	130918P1-01	15	SBS_121125_DF_PA	1.00	solvent blank	MDC	808-416	18-SEP-2013	10:46:49
2	130918P1-02	16	CS0	1.00	11012012A	MDC	304-784	18-SEP-2013	11:39:23
3	130918P1-03	17	CS1	1.00	11012012A	MDC	542-604	18-SEP-2013	12:31:56
4	130918P1-04	18	CS2	1.00	11012012A	MDC	013-506	18-SEP-2013	13:24:29
5	130918P1-05	19	CS3	1.00	11012012A	MDC	994-273	18-SEP-2013	14:17:08
6	130918P1-06	20	CS4	1.00	11012012A	MDC	777-980	18-SEP-2013	15:09:42
7	130918P1-07	21	CS5	1.00	11012012A	MDC	467-721	18-SEP-2013	16:02:11
8	130918P1-08	22	CS6	1.00	11012012A	MDC	081-682	18-SEP-2013	16:54:40

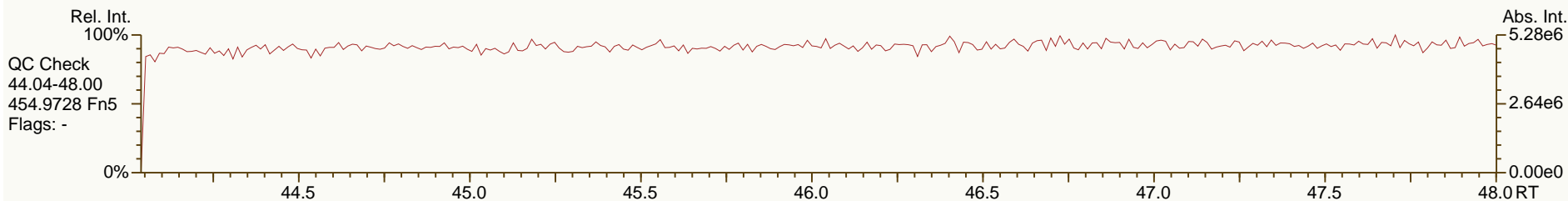
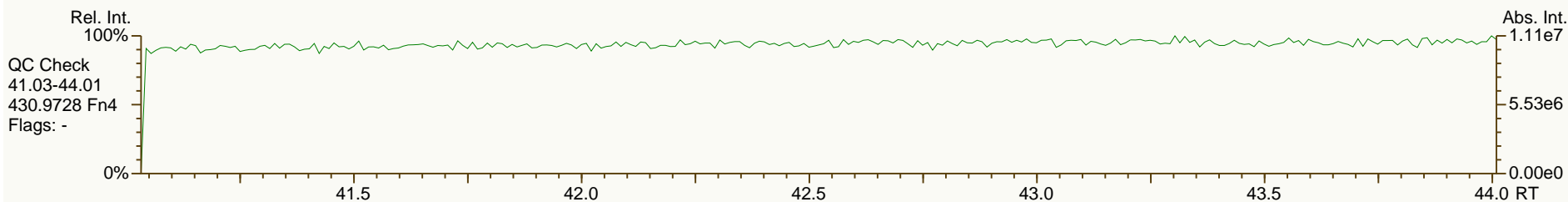
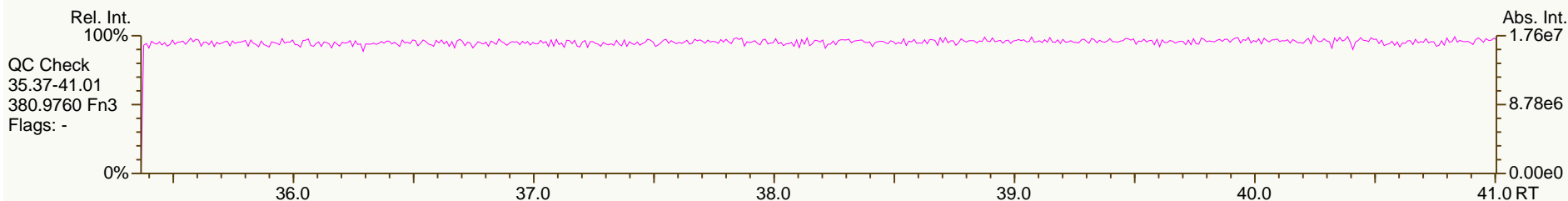
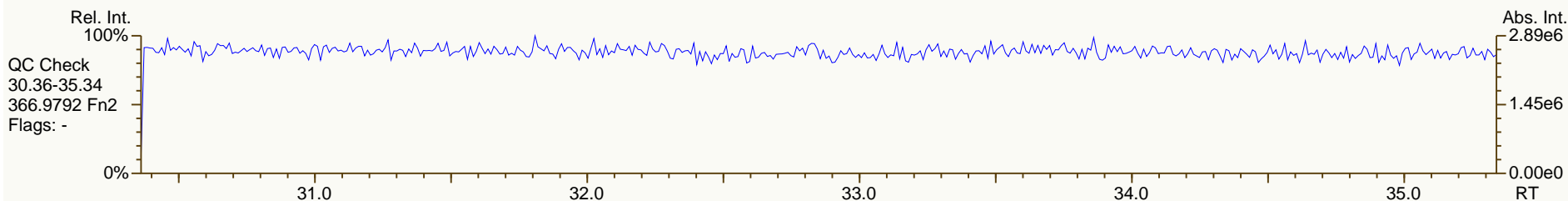
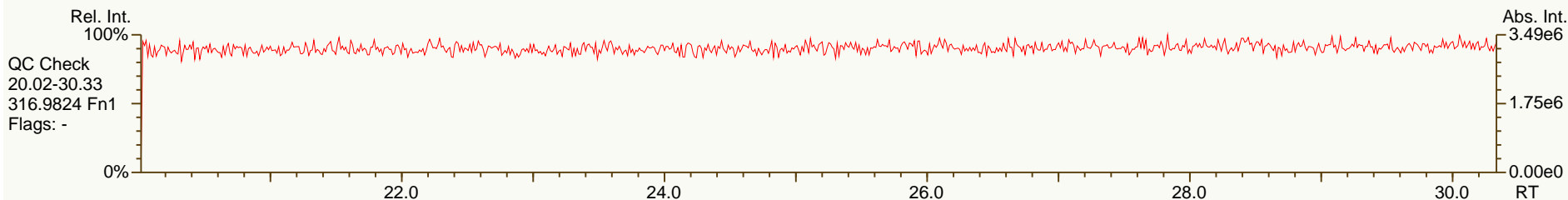
REVIEWED
By Michael D H Chu at 9:11 am, Sep 20, 2013

APPROVED
By Jeremy Kadylak at 9:47 am, Sep 20, 2013

SGS-AP ID: CS0
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

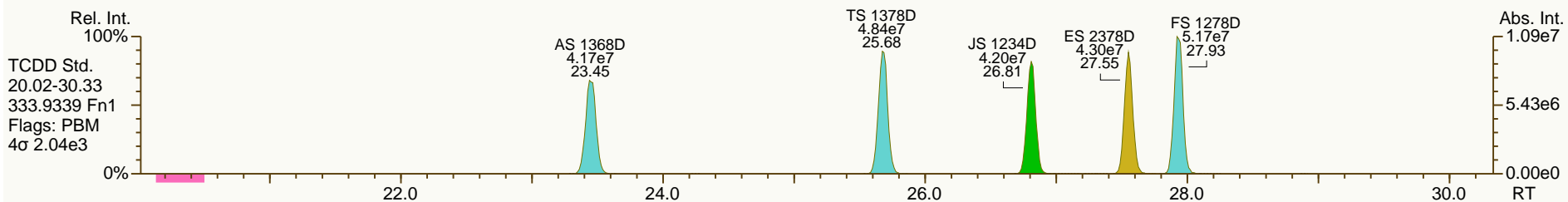
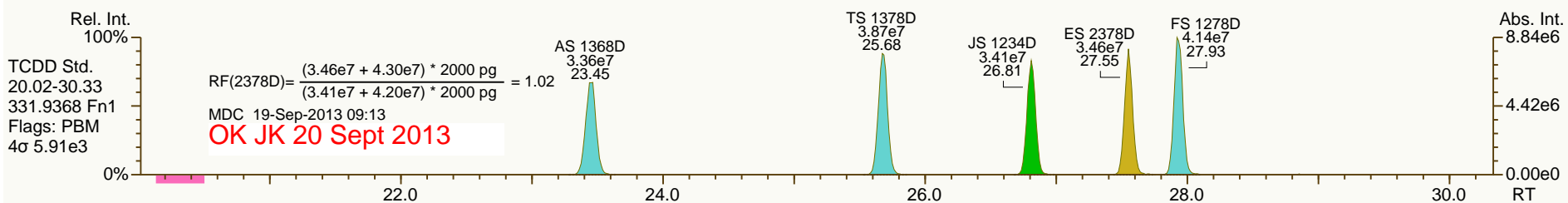
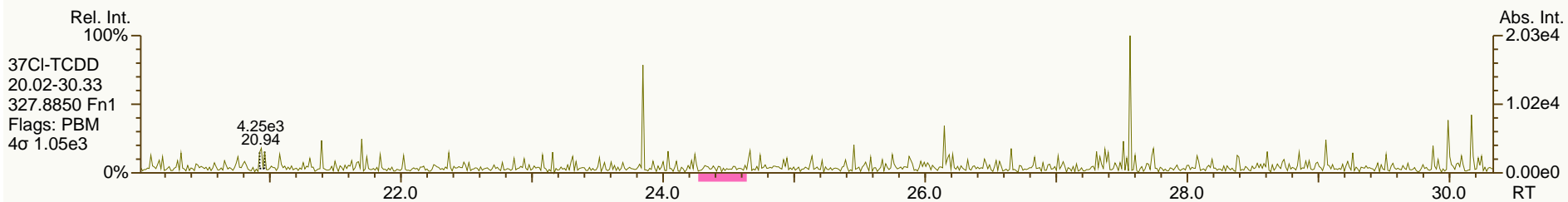
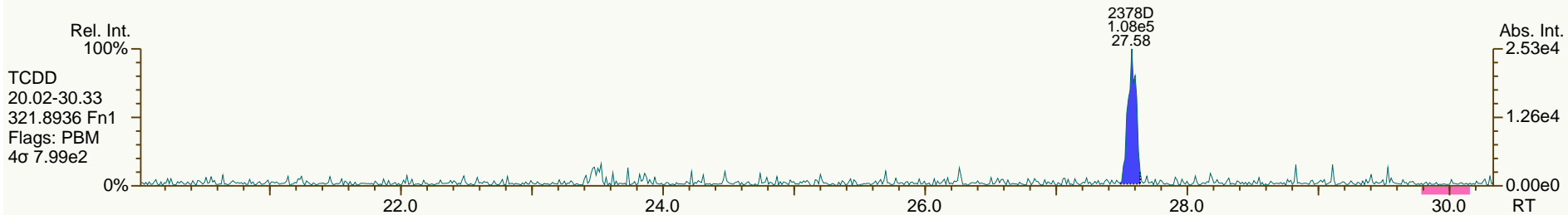
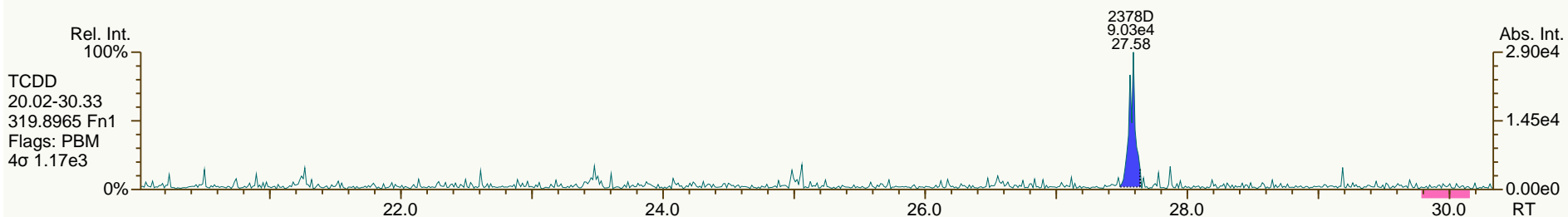
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SGS-AP ID: CS0
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

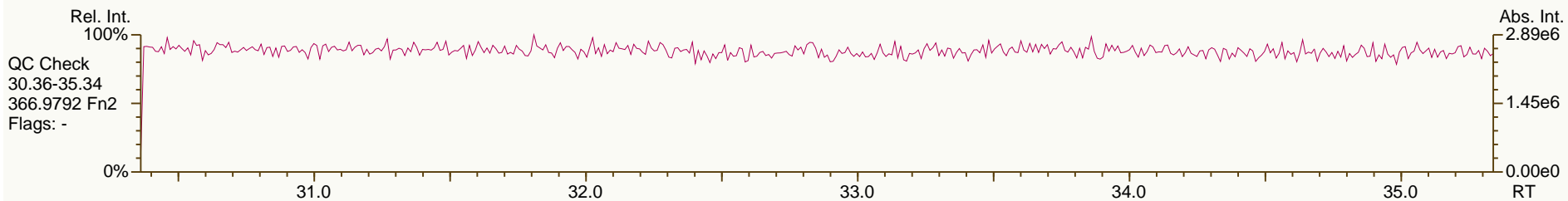
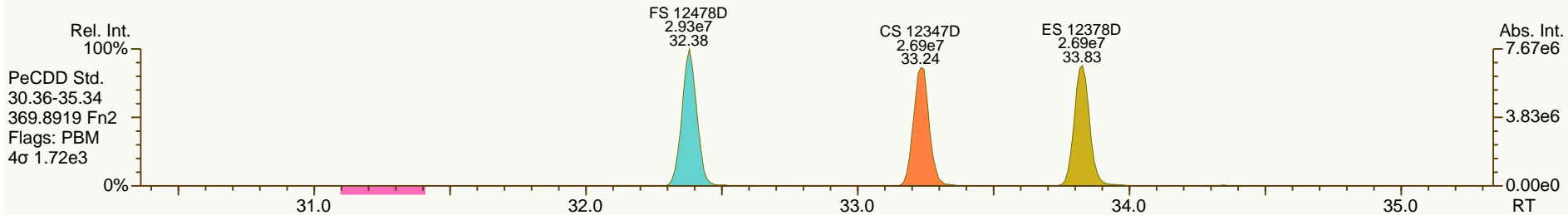
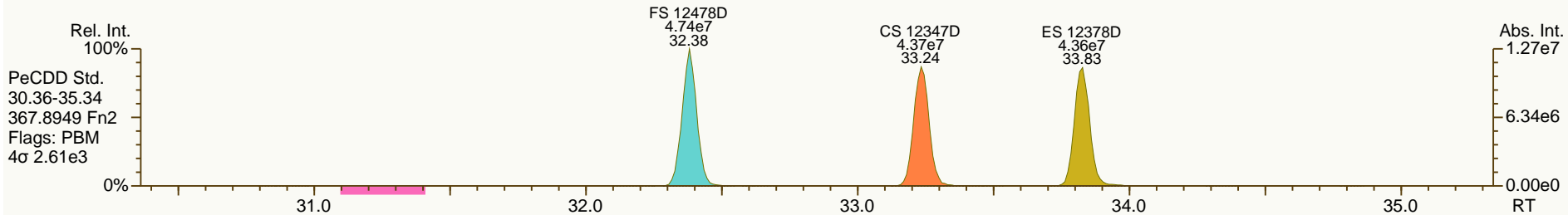
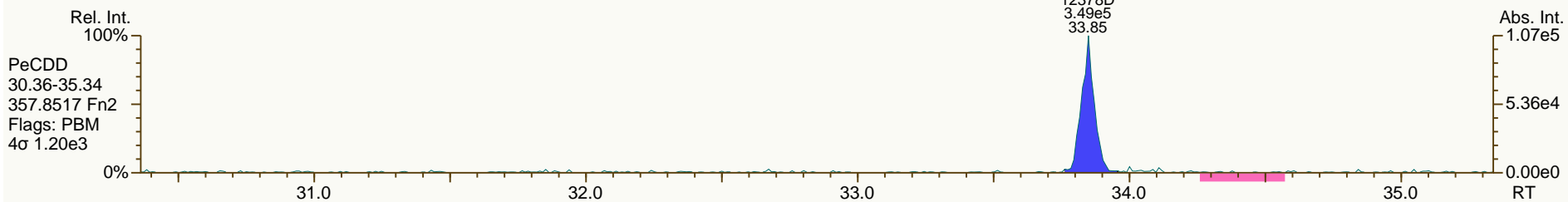
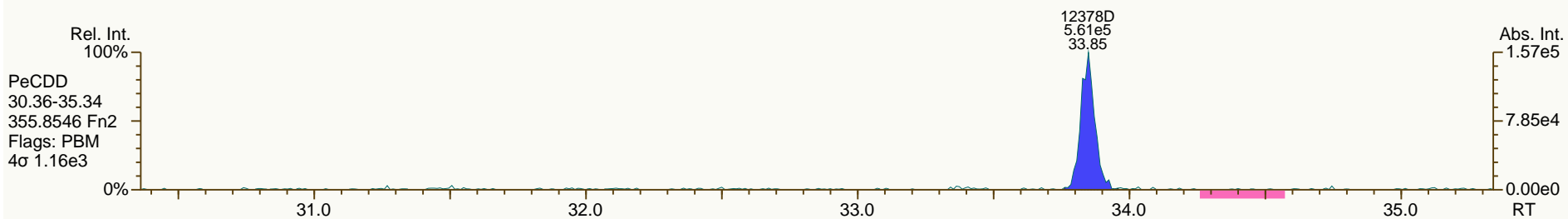
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SGS-AP ID: CS0
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

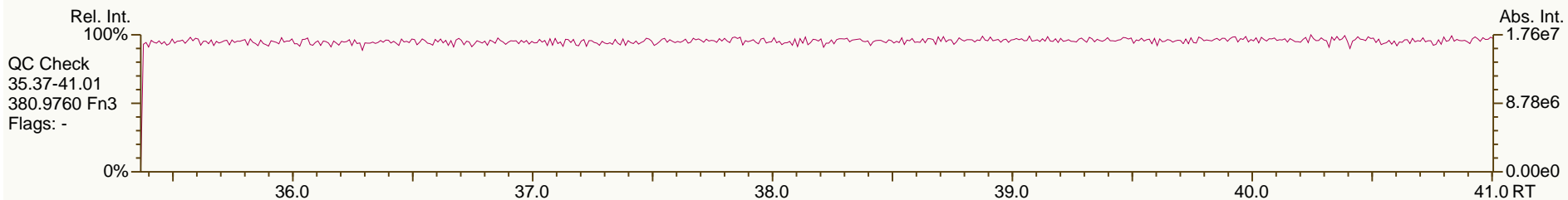
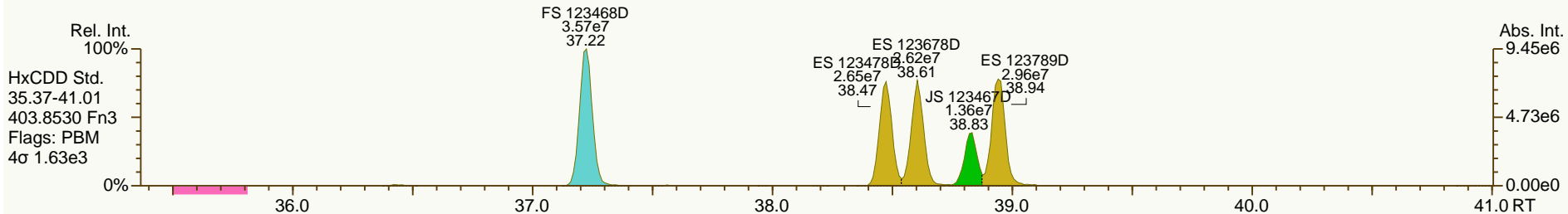
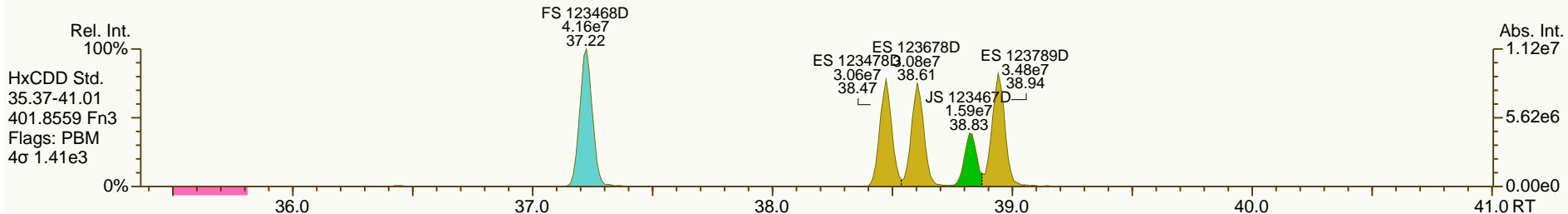
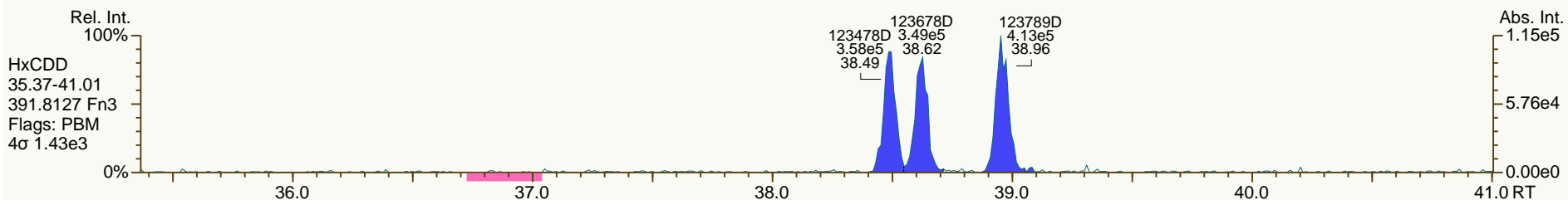
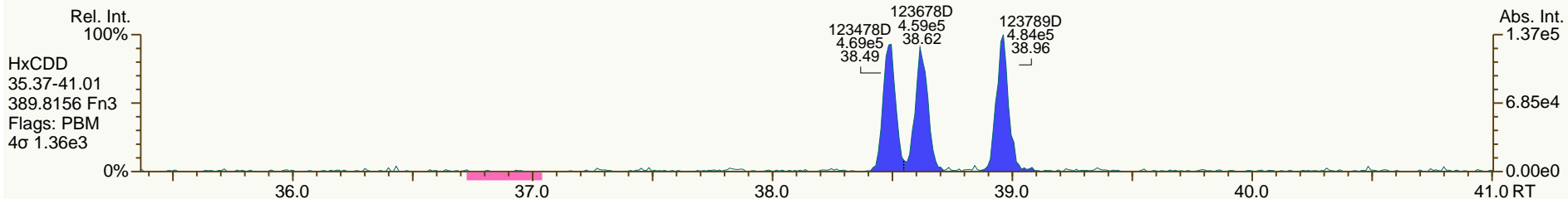
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SGS-AP ID: CS0
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

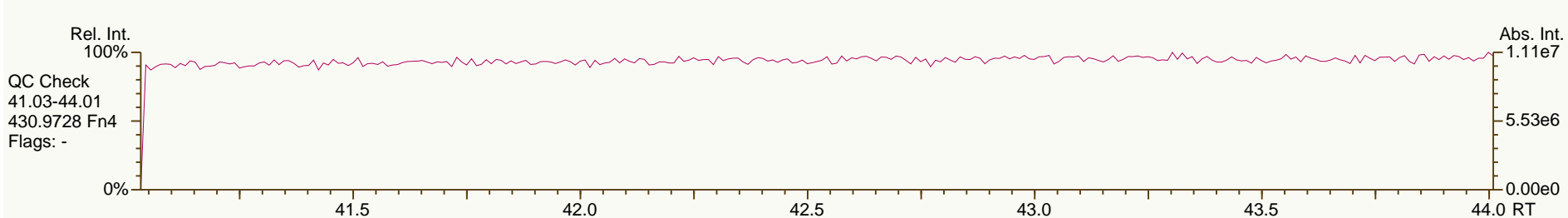
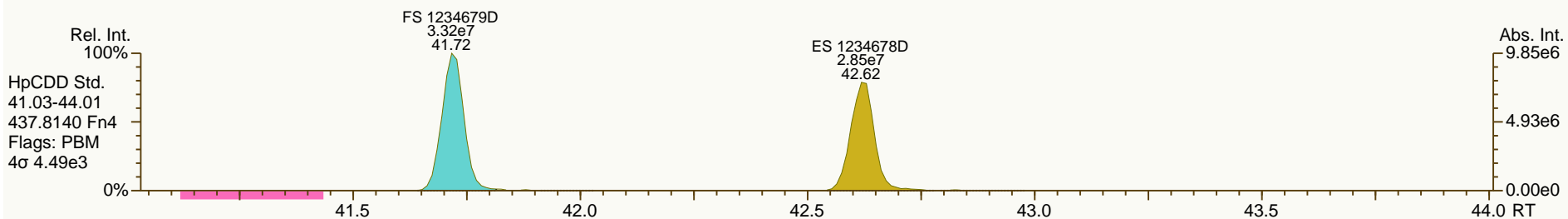
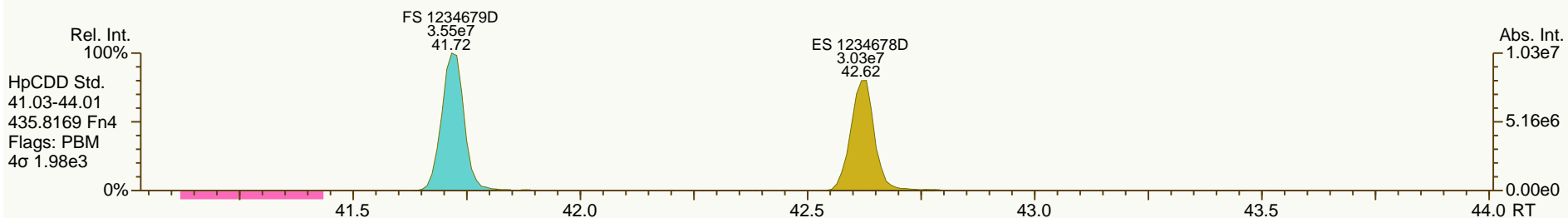
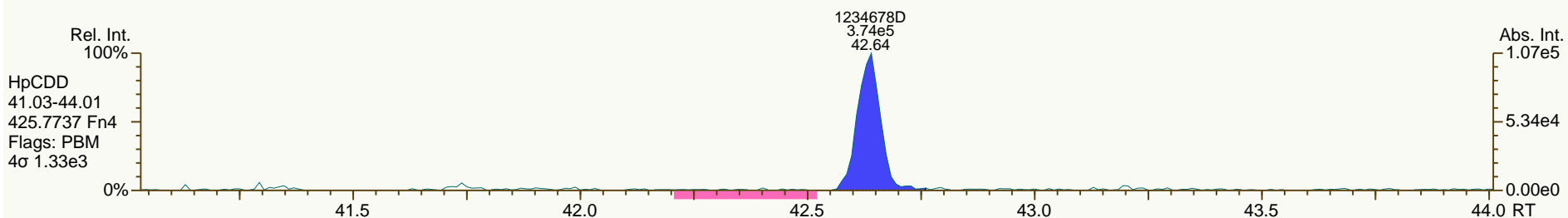
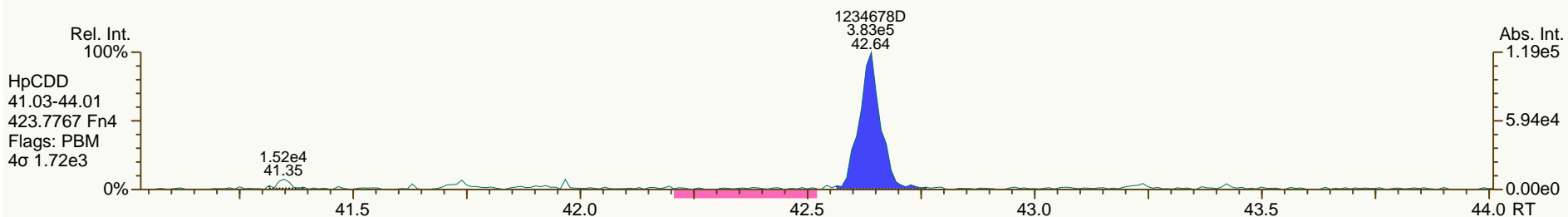
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SGS-AP ID: CS0
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

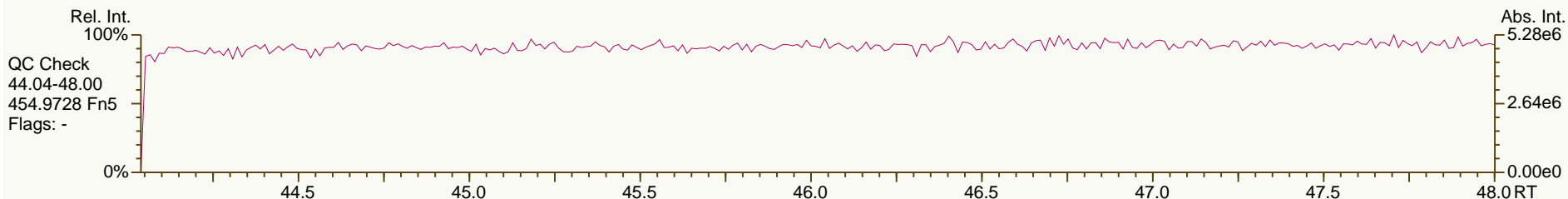
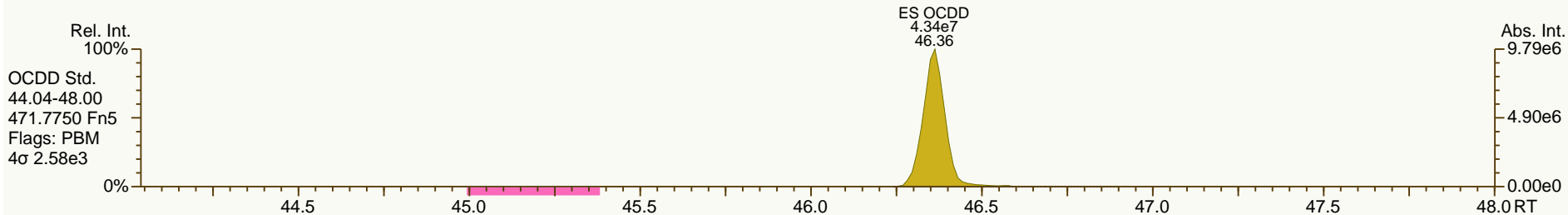
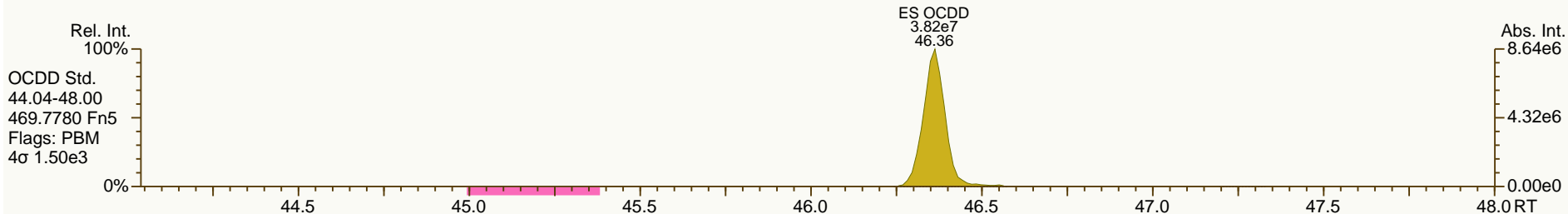
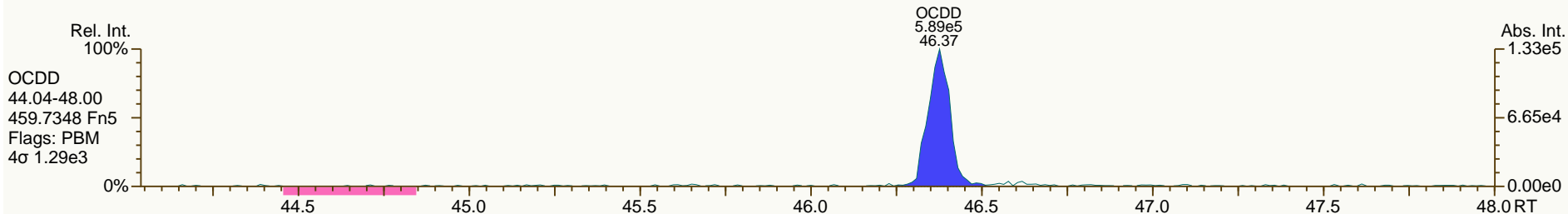
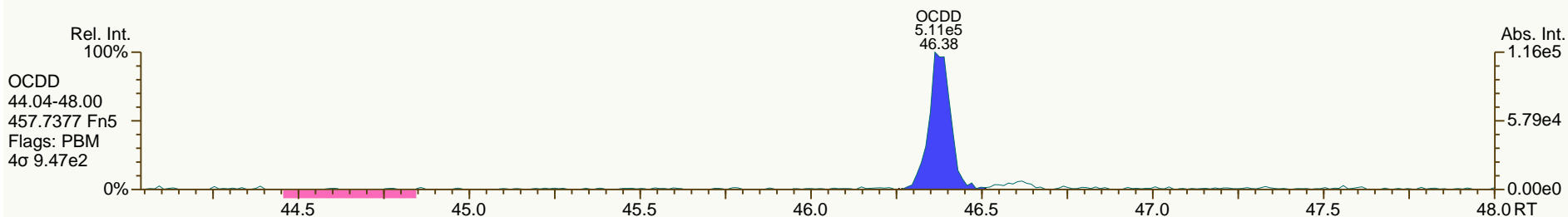
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 User: MDC Datafile: 130918P1-02



SGS-AP ID: CS0
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

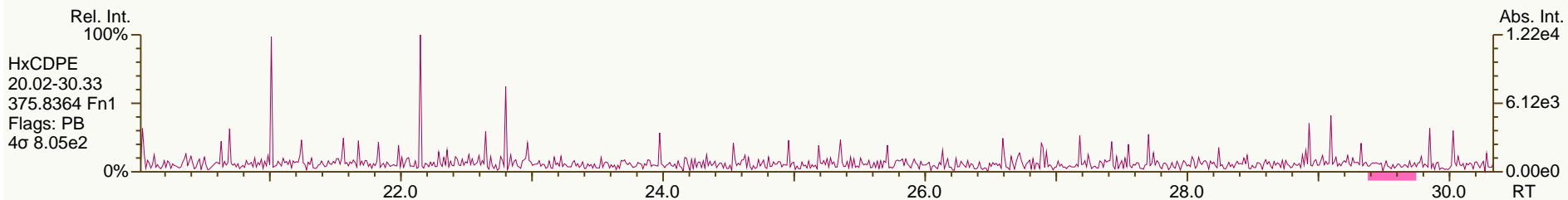
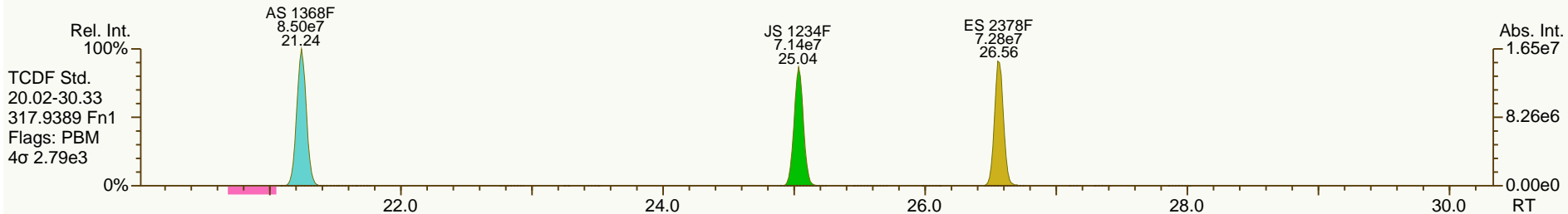
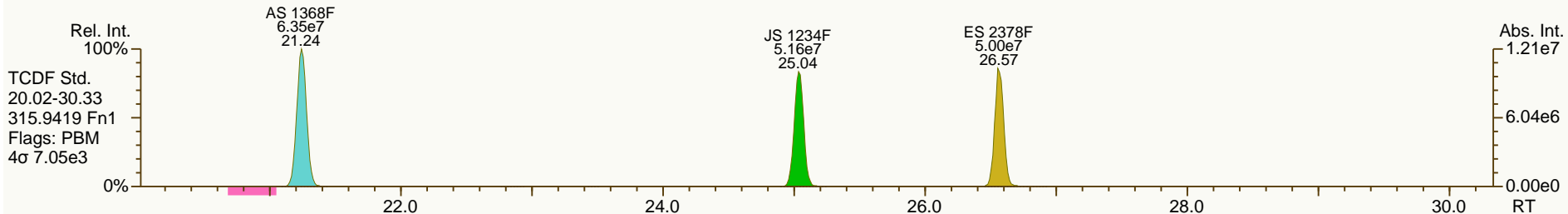
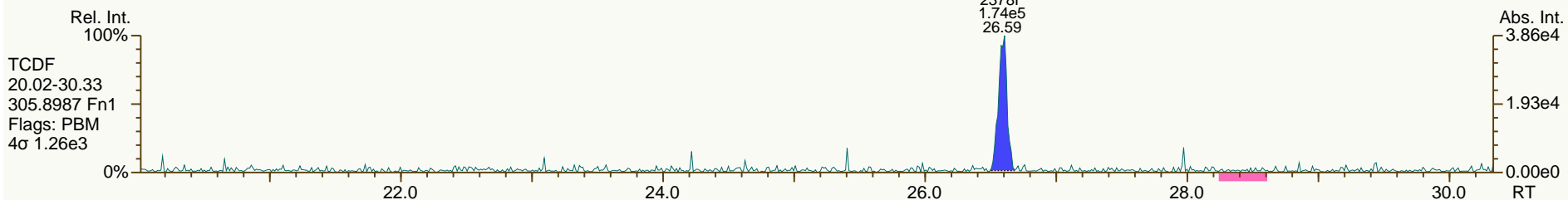
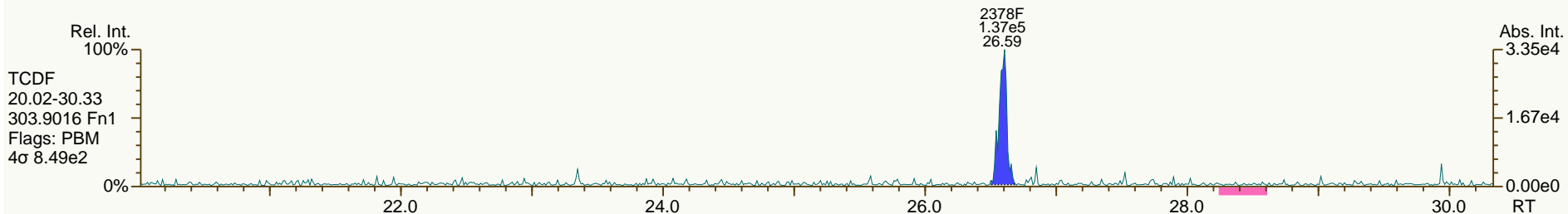
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SGS-AP ID: CS0
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

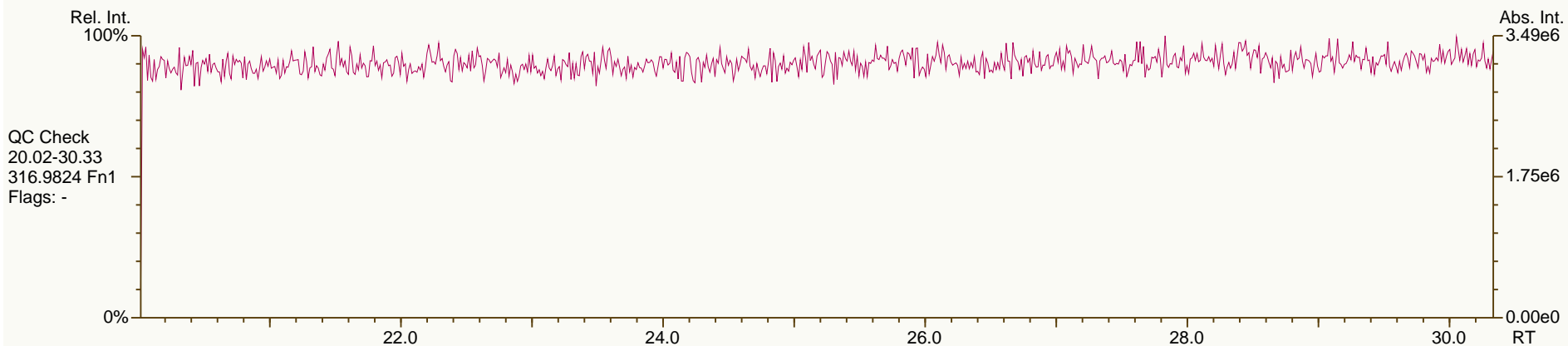
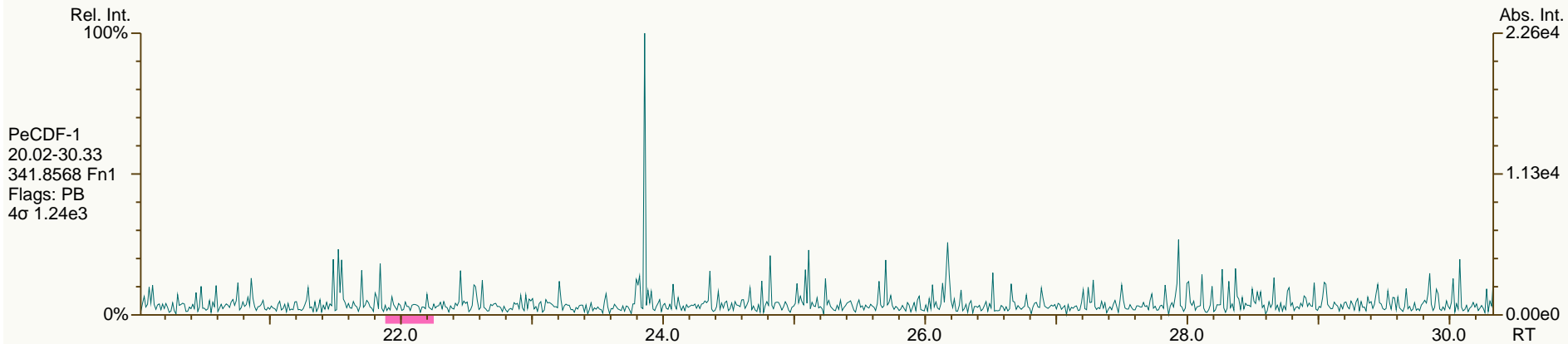
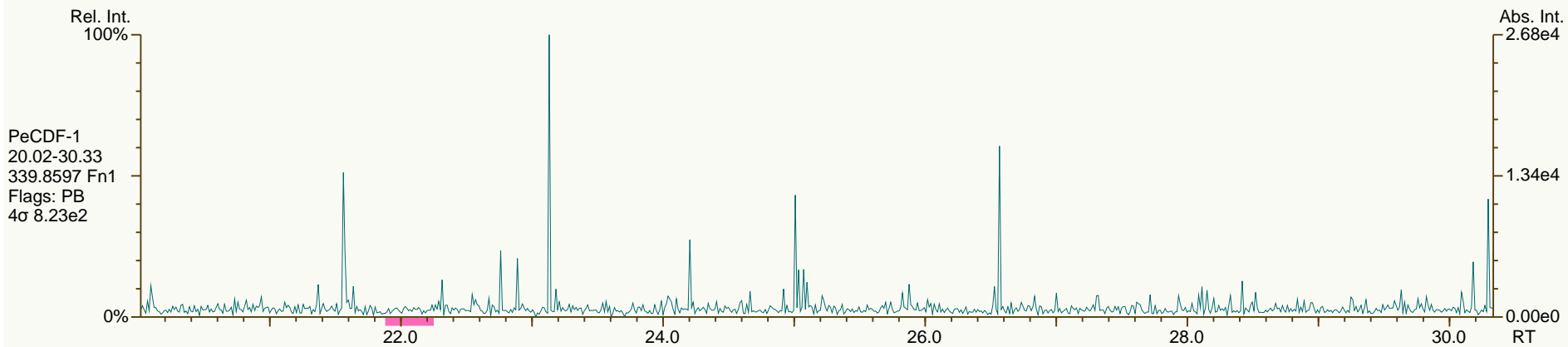
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SGS-AP ID: CS0
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

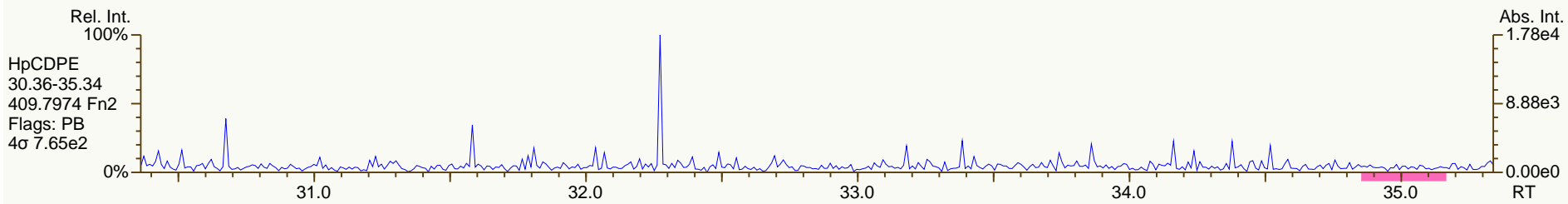
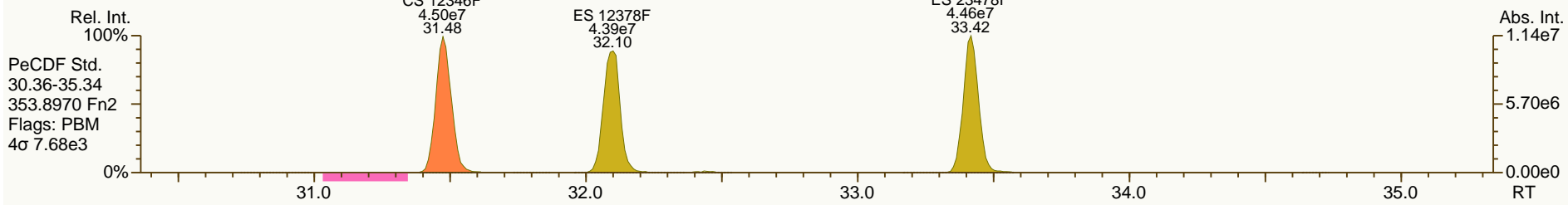
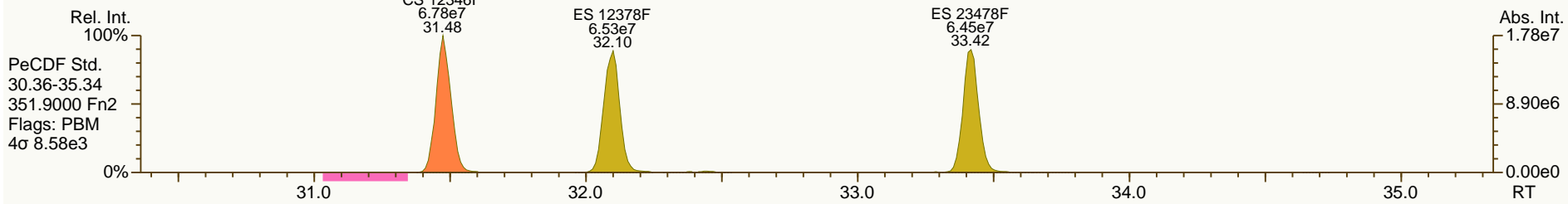
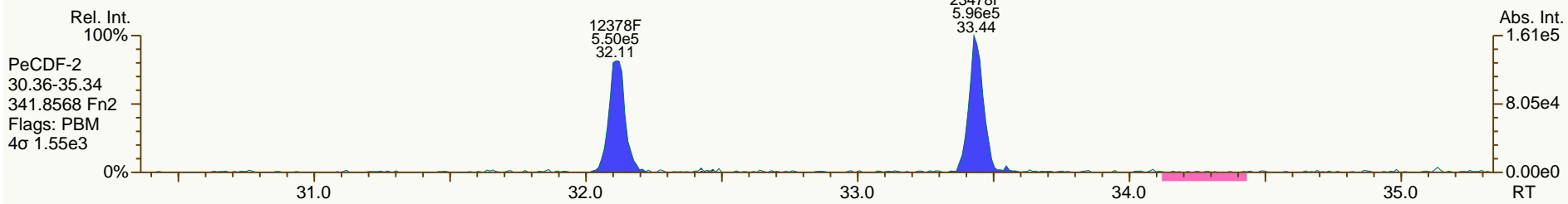
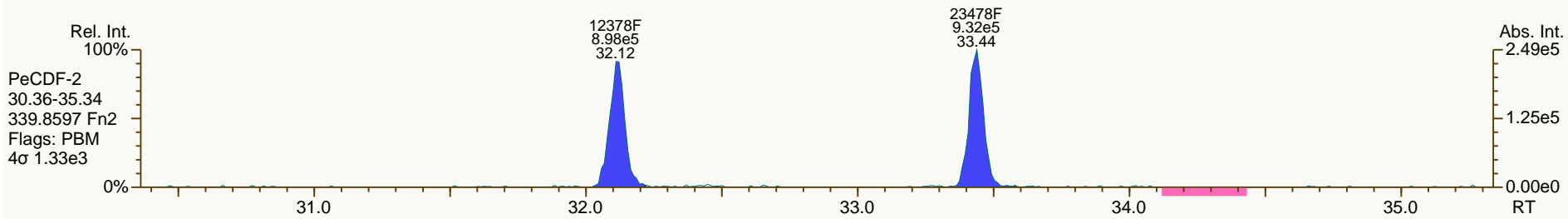
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SGS-AP ID: CS0
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

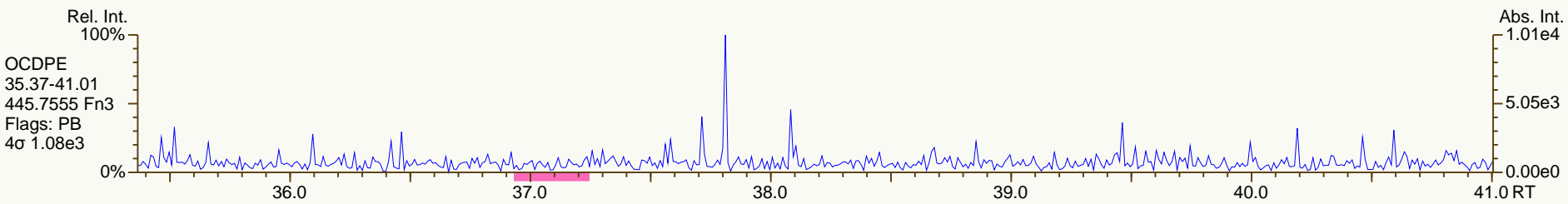
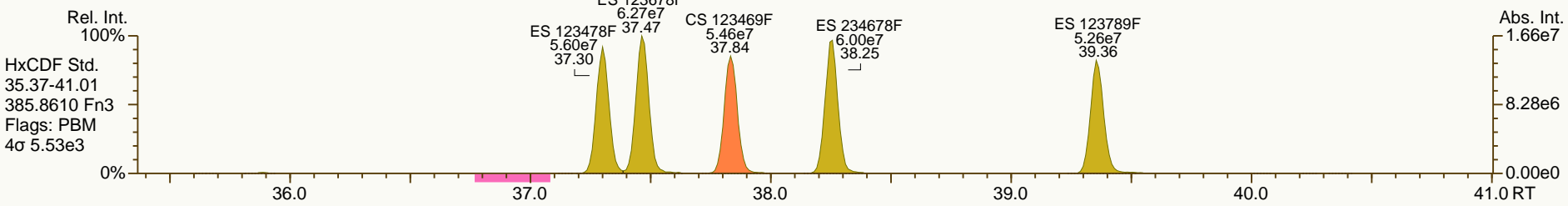
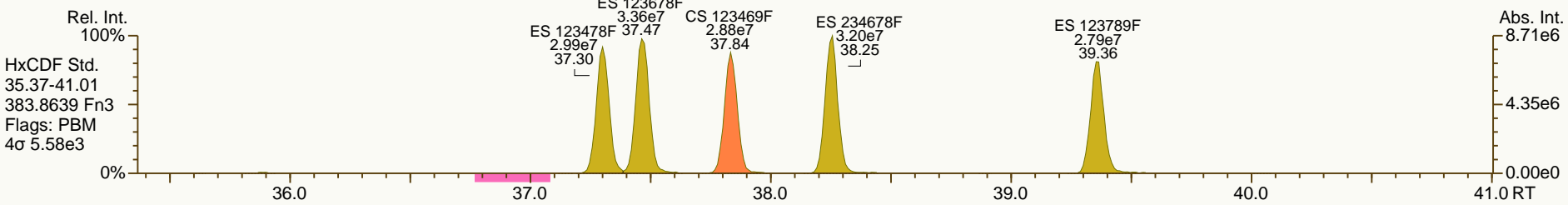
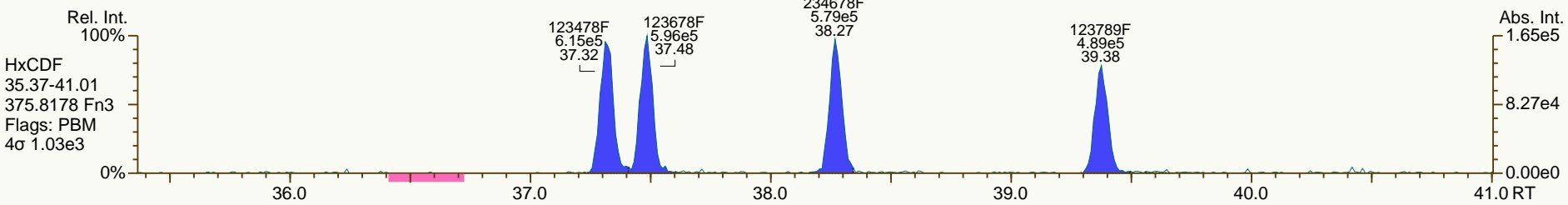
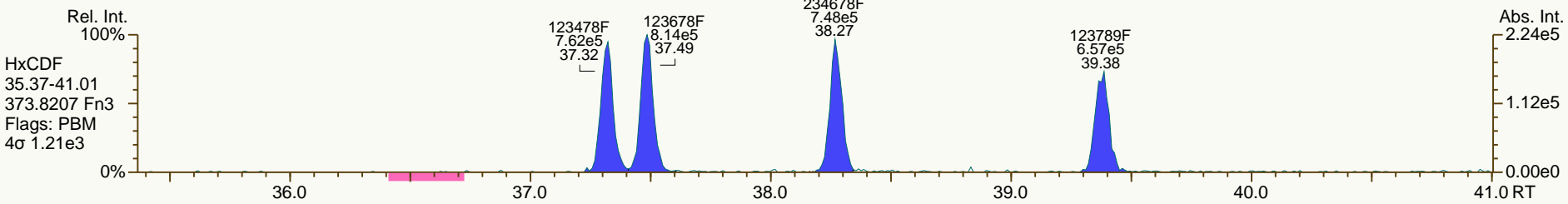
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SGS-AP ID: CS0
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

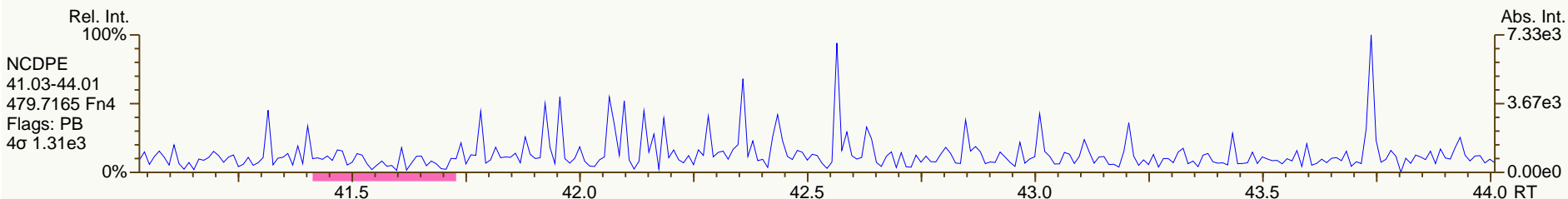
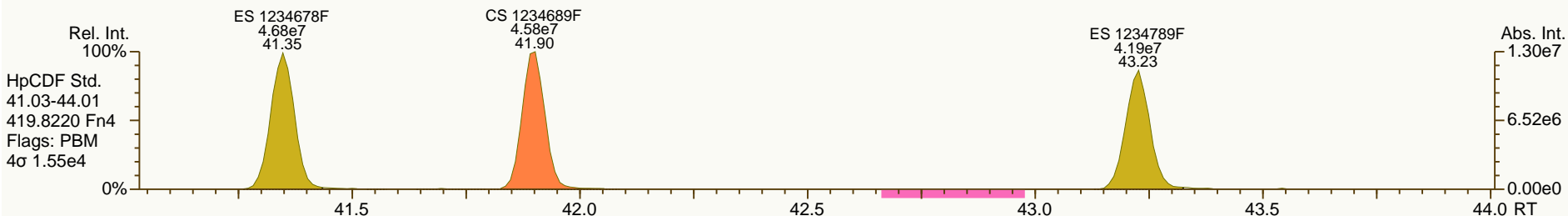
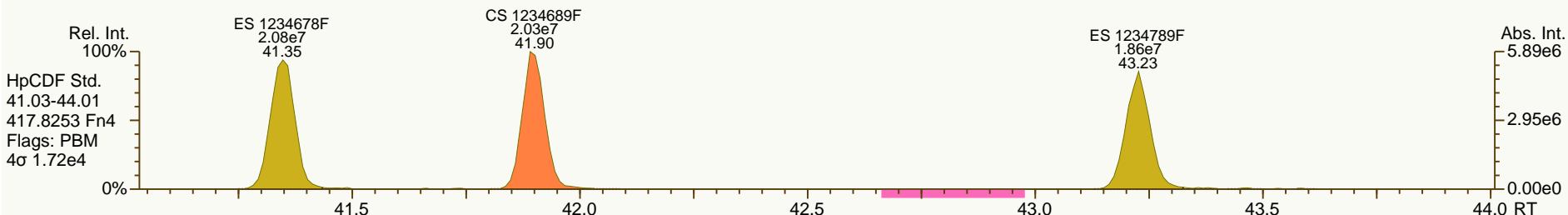
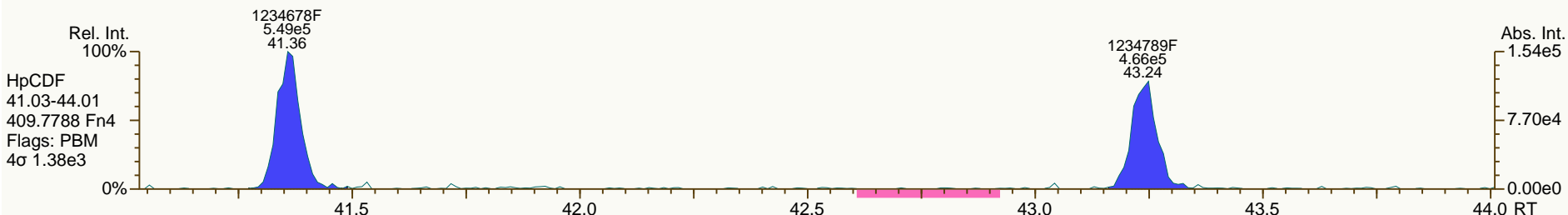
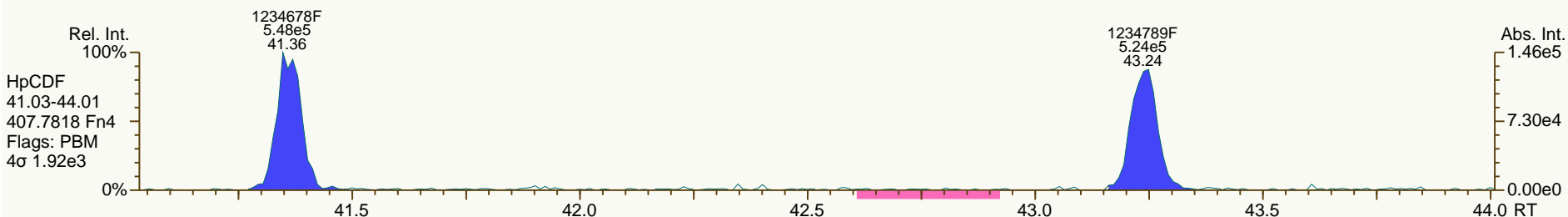
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SGS-AP ID: CS0
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

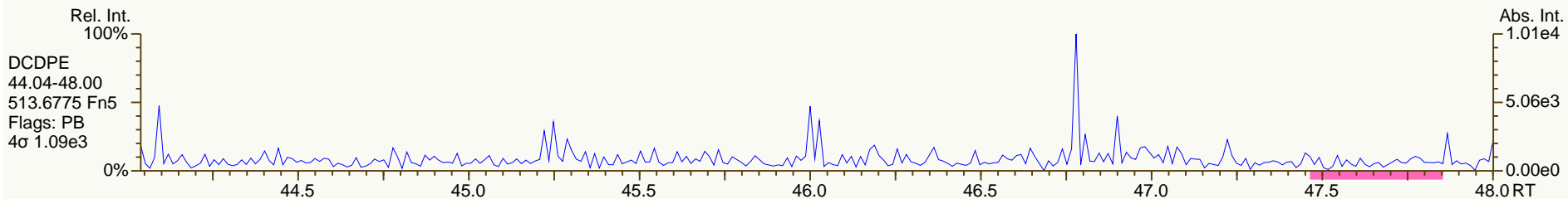
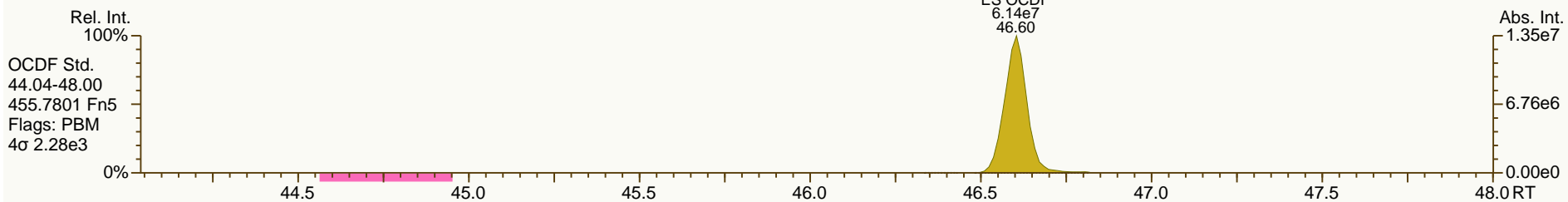
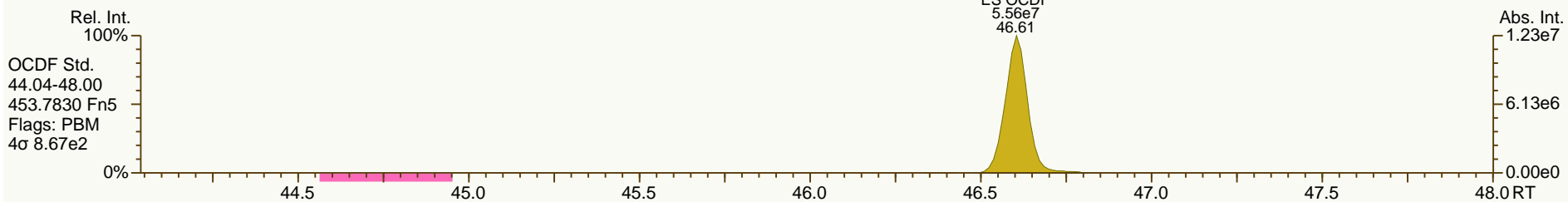
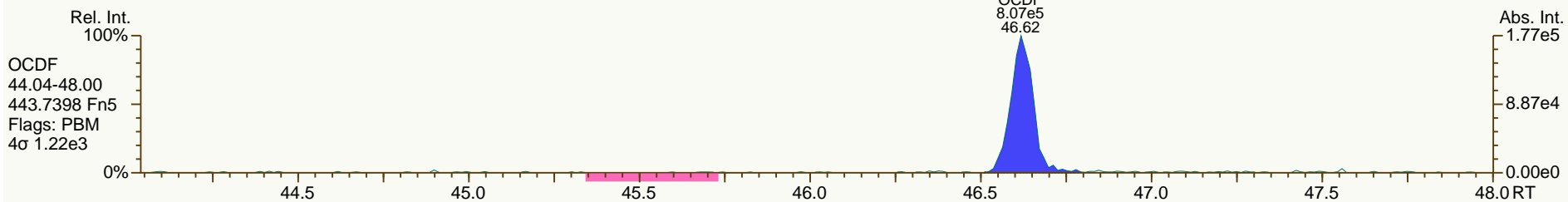
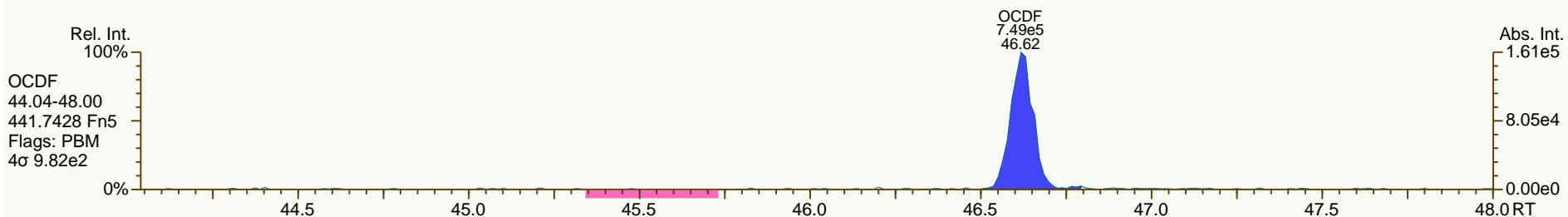
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SGS-AP ID: CS0
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 16

Acq: 18-SEP-2013 11:39:23
 User: MDC Datafile: 130918P1-02



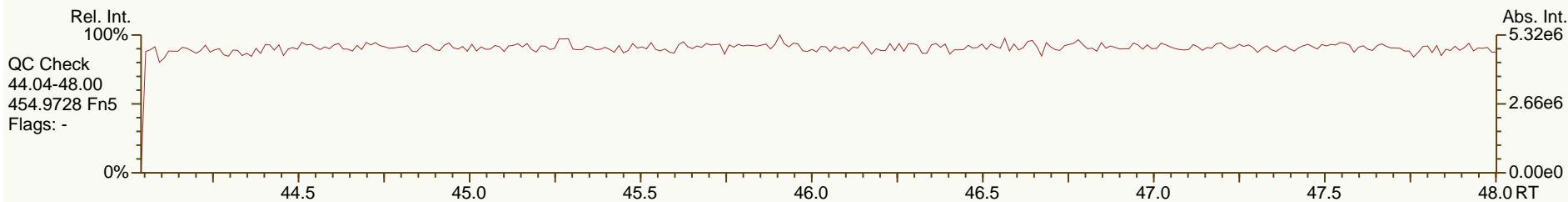
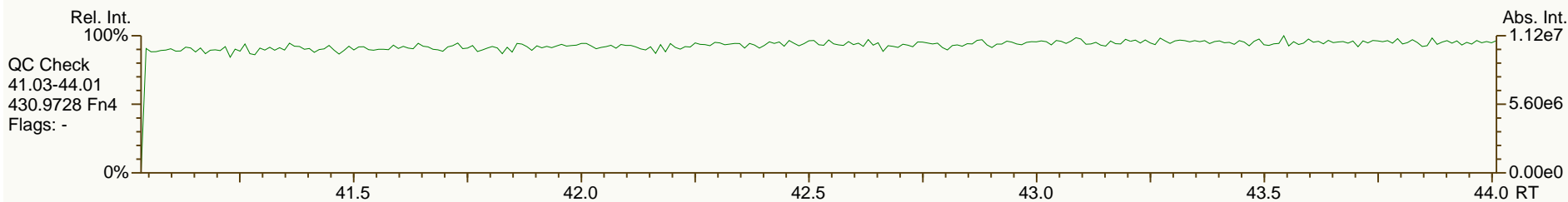
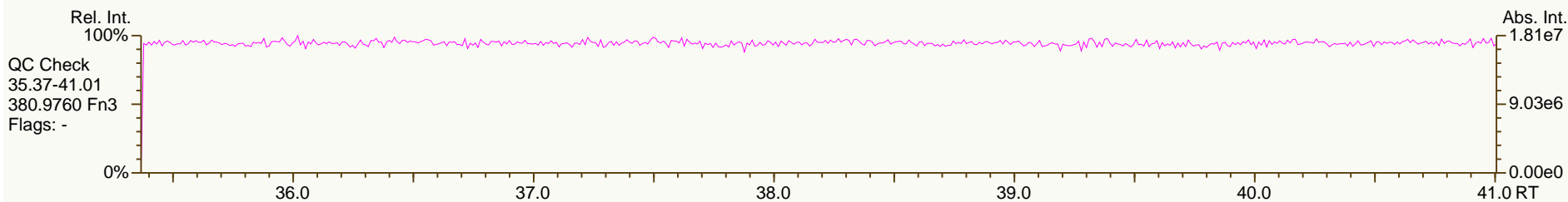
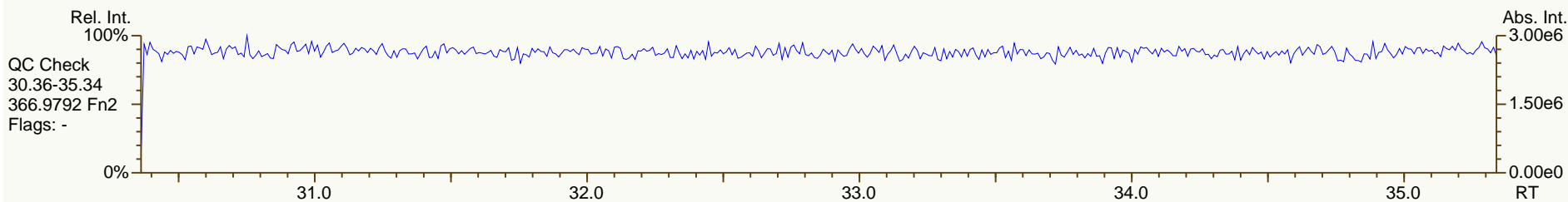
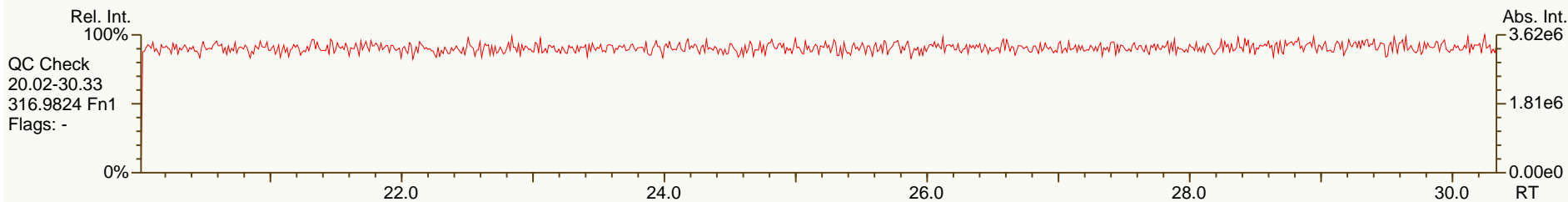
Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 12:31 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS1		UTP: 18-Sep-2013 16:10 MDC			Checkcode: 542-604-CQJ		
Sample ID: 11012012A		Report: 19 Sep 2013 09:11 MC			Datafile: 130918P1-03		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.58	4.54E+05	0.77	Y	1.18	1.19	1%
12378-PeCDD	33.85	1.67E+06	1.57	Y	1.07	1.02	-5%
123478-HxCDD	38.49	1.52E+06	1.24	Y	1.19	1.12	-6%
123678-HxCDD	38.63	1.49E+06	1.19	Y	1.19	1.15	-4%
123789-HxCDD	38.96	1.59E+06	1.30	Y	1.12	1.07	-4%
1234678-HpCDD	42.64	1.39E+06	1.13	Y	1.08	1.03	-5%
OCDD	46.38	2.00E+06	0.85	Y	1.14	1.08	-5%
2378-TCDF	26.58	6.62E+05	0.84	Y	1.10	1.11	1%
12378-PeCDF	32.11	2.94E+06	1.55	Y	1.17	1.18	1%
23478-PeCDF	33.44	2.91E+06	1.51	Y	1.14	1.15	1%
123478-HxCDF	37.32	2.65E+06	1.25	Y	1.34	1.32	-2%
123678-HxCDF	37.49	2.65E+06	1.22	Y	1.23	1.17	-5%
234678-HxCDF	38.27	2.59E+06	1.21	Y	1.26	1.24	-2%
123789-HxCDF	39.38	2.10E+06	1.25	Y	1.23	1.17	-5%
1234678-HpCDF	41.36	2.15E+06	1.02	Y	1.42	1.40	-1%
1234789-HpCDF	43.24	1.84E+06	1.03	Y	1.39	1.30	-6%
OCDF	46.62	2.78E+06	0.94	Y	1.11	1.06	-4%
ES 2378-TCDD	27.55	7.62E+07	0.82	Y	1.02	1.01	-1%
ES 12378-PeCDD	33.83	6.52E+07	1.61	Y	0.92	0.86	-6%
ES 123478-HxCDD	38.47	5.41E+07	1.21	Y	1.02	0.99	-3%
ES 123678-HxCDD	38.61	5.19E+07	1.20	Y	1.01	0.95	-6%
ES 123789-HxCDD	38.94	5.95E+07	1.21	Y	1.14	1.09	-5%
ES 1234678-HpCDD	42.62	5.37E+07	1.06	Y	1.02	0.98	-4%
ES OCDD	46.36	7.38E+07	0.90	Y	0.72	0.68	-6%
ES 2378-TCDF	26.56	1.20E+08	0.71	Y	1.01	1.00	-1%
ES 12378-PeCDF	32.09	9.94E+07	1.48	Y	0.89	0.83	-6%
ES 23478-PeCDF	33.42	1.01E+08	1.48	Y	0.91	0.84	-7%
ES 123478-HxCDF	37.30	8.03E+07	0.53	Y	1.53	1.47	-4%
ES 123678-HxCDF	37.47	9.03E+07	0.53	Y	1.73	1.65	-4%
ES 234678-HxCDF	38.25	8.37E+07	0.54	Y	1.61	1.53	-5%
ES 123789-HxCDF	39.36	7.18E+07	0.54	Y	1.39	1.31	-6%
ES 1234678-HpCDF	41.35	6.14E+07	0.45	Y	1.20	1.12	-6%
ES 1234789-HpCDF	43.23	5.63E+07	0.45	Y	1.07	1.03	-4%
ES OCDF	46.60	1.05E+08	0.91	Y	1.04	0.96	-8%

Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 12:31 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS1		UTP: 18-Sep-2013 16:10 MDC			Checkcode: 542-604		
Sample ID: 11012012A		Report: 19 Sep 2013 09:11 MC			Datafile: 130918P1-03		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
JS 1234-TCDD	26.80	7.56E+07	0.80	Y	-	-	-
JS 1234-TCDF	25.03	1.20E+08	0.71	Y	-	-	-
JS 123467-HxCDD	38.83	2.73E+07	1.18	Y	-	-	-
CS 37C1-2378-TCDD	27.57	4.08E+05	n/a	-	1.13	1.08	-5%
CS 12347-PeCDD	33.23	6.64E+07	1.66	Y	0.88	0.88	0%
CS 12346-PeCDF	31.47	1.09E+08	1.50	Y	0.90	0.91	1%
CS 123469-HxCDF	37.84	7.69E+07	0.54	Y	1.40	1.41	1%
CS 1234689-HpCDF	41.90	5.84E+07	0.45	Y	1.09	1.07	-2%
SS 37C1-2378-TCDD	27.57	4.08E+05	n/a	-	1.11	1.07	-4%
SS 12347-PeCDD	33.23	6.64E+07	1.66	Y	0.96	1.02	6%
SS 12346-PeCDF	31.47	1.09E+08	1.50	Y	1.02	1.10	8%
SS 123469-HxCDF	37.84	7.69E+07	0.54	Y	0.81	0.85	5%
SS 1234689-HpCDF	41.90	5.84E+07	0.45	Y	0.91	0.95	4%
AS 1368-TCDD	23.44	7.60E+07	0.81	Y	1.01	1.01	0%
AS 1368-TCDF	21.24	1.46E+08	0.76	Y	1.22	1.22	0%
FS 1278-TCDD	27.93	8.98E+07	0.79	Y	1.18	1.18	0%
FS 12478-PeCDD	32.38	7.27E+07	1.63	Y	1.06	1.12	5%
FS 123468-HxCDD	37.22	6.98E+07	1.16	Y	1.26	1.29	2%
FS 1234679-HpCDD	41.72	6.28E+07	1.08	Y	1.12	1.17	4%
TS 1378-TCDD	25.67	8.51E+07	0.81	Y	1.11	1.12	1%
OCDD-a	NotFnd				0.07		
OCDF-a	NotFnd				0.06		

SGS-AP ID: CS1
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

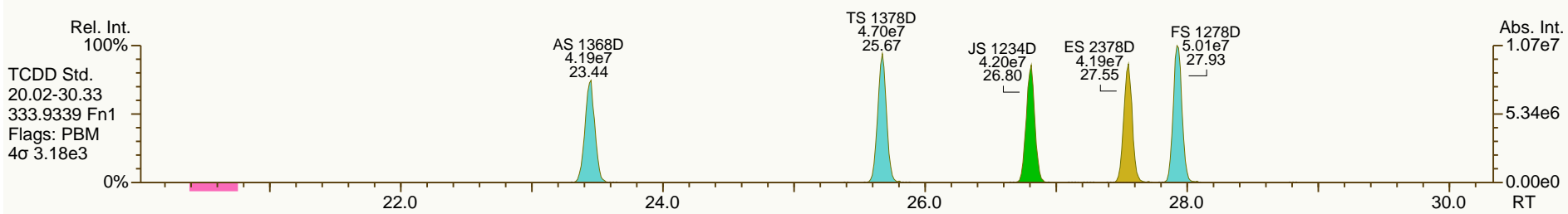
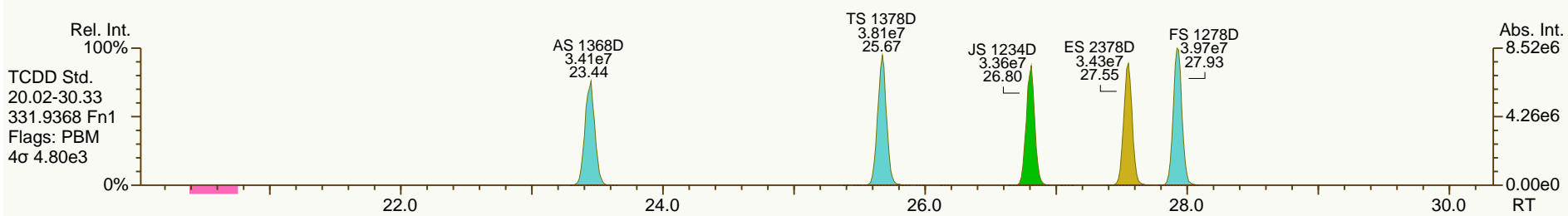
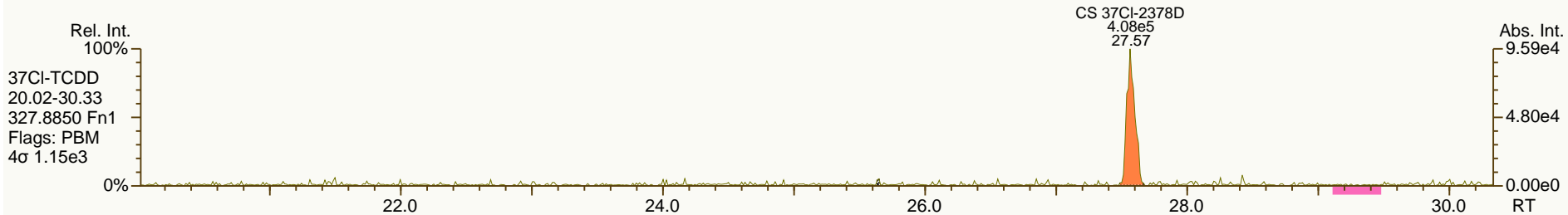
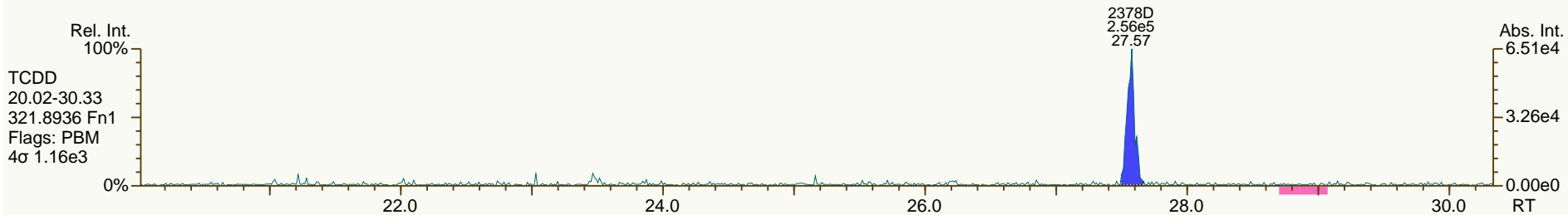
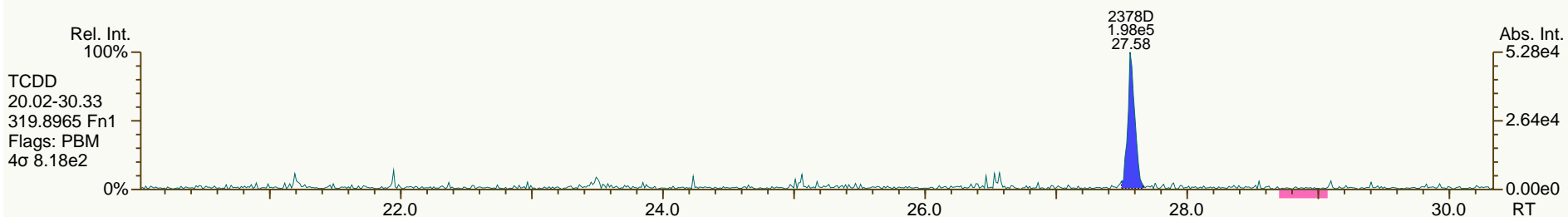
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SGS-AP ID: CS1
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

Acq: 18-SEP-2013 12:31:56
User: MDC Datafile: 130918P1-03



SGS-AP ID: CS1
 Instr: AutoSpec-Ultima MM1

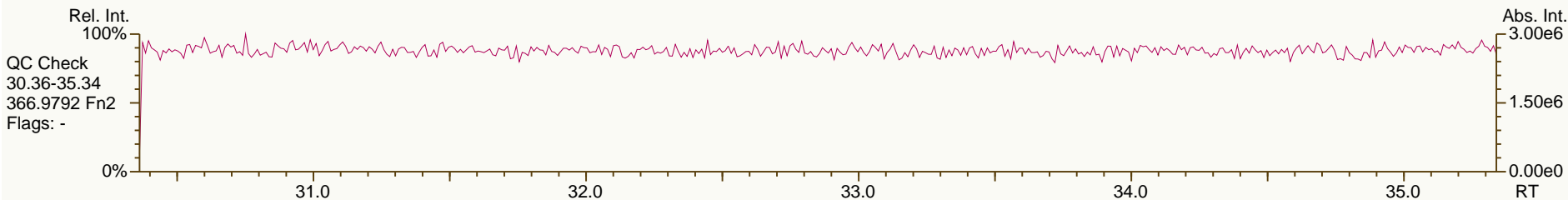
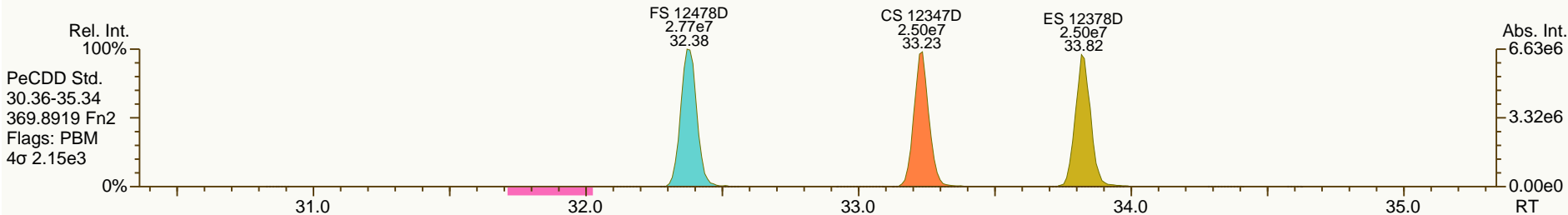
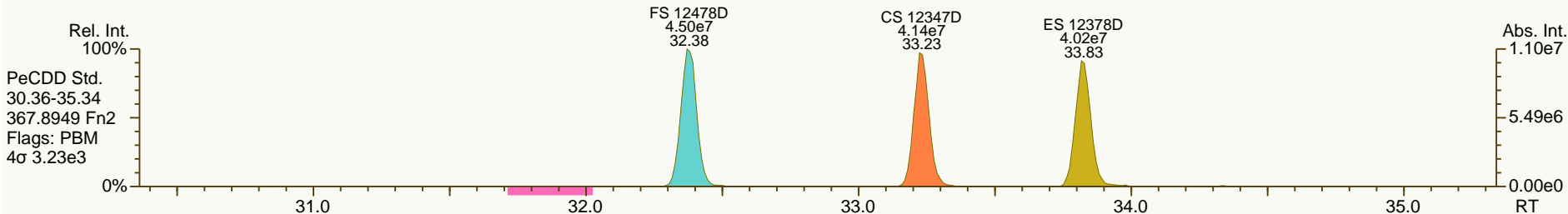
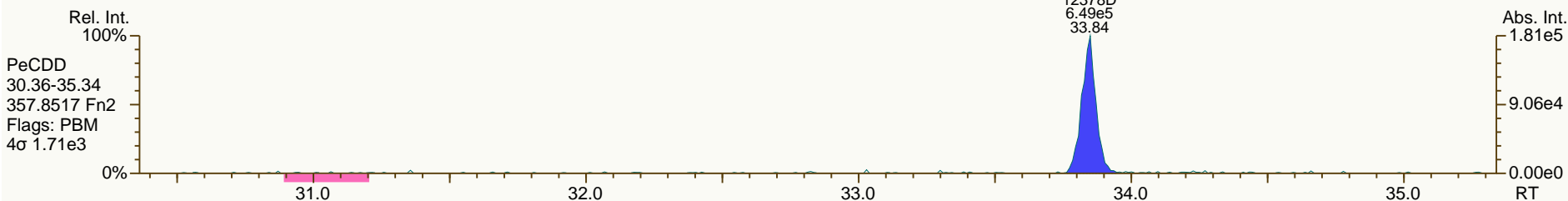
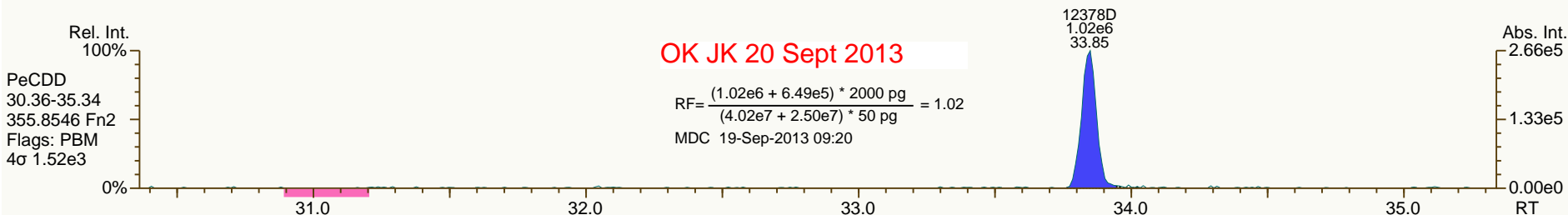
Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

Acq: 18-SEP-2013 12:31:56
 User: MDC Datafile: 130918P1-03

OK JK 20 Sept 2013

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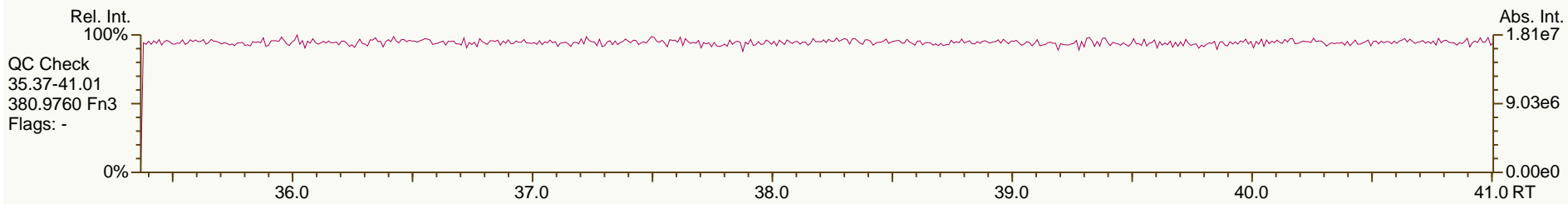
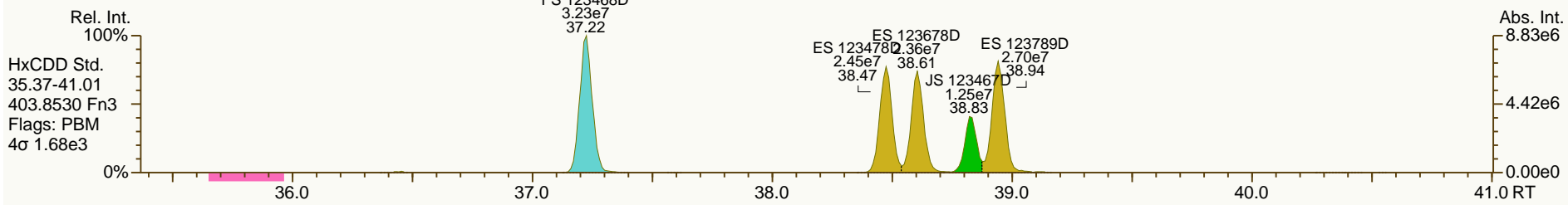
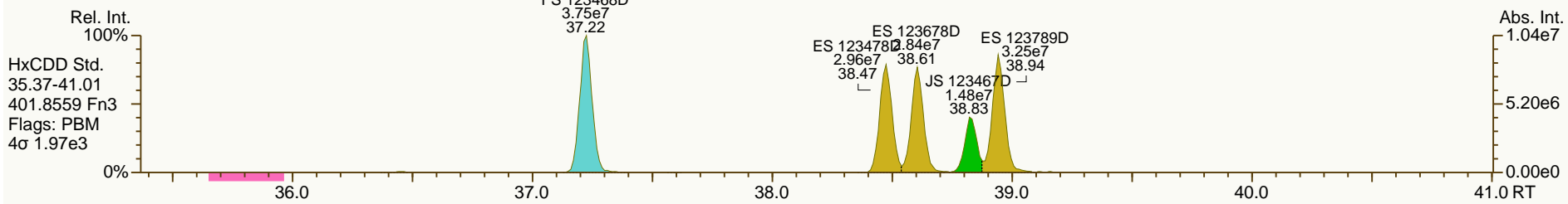
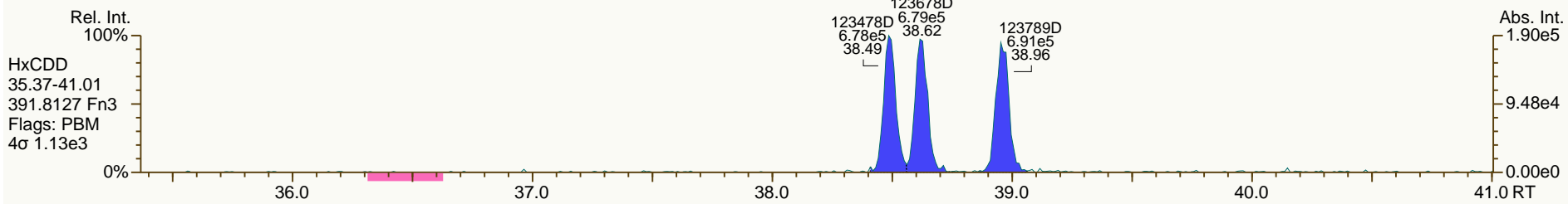
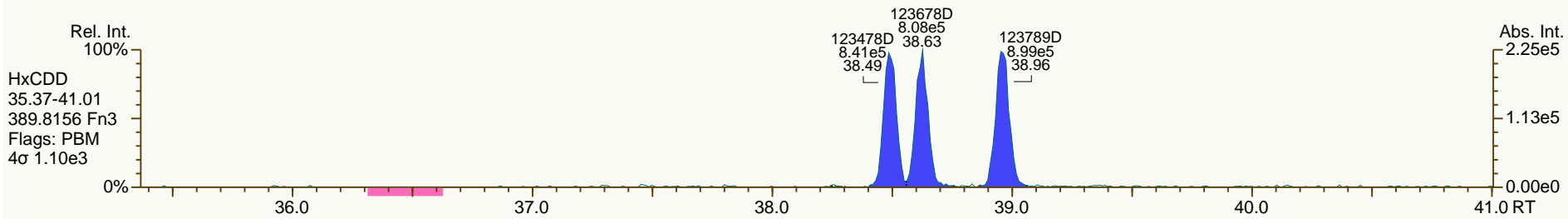
MDC 19-Sep-2013 09:20



SGS-AP ID: CS1
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

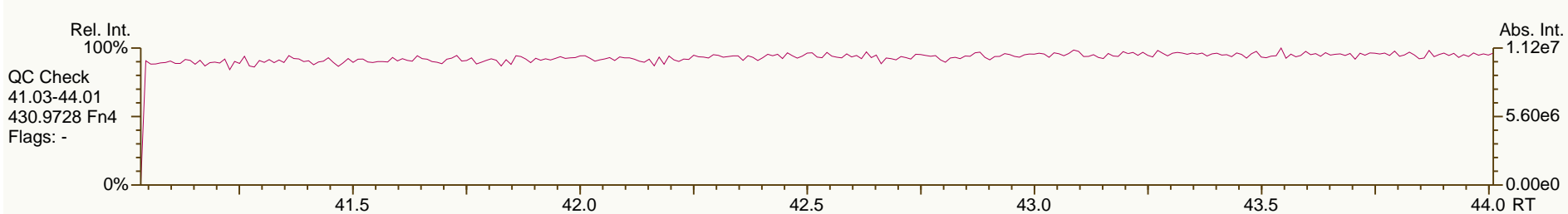
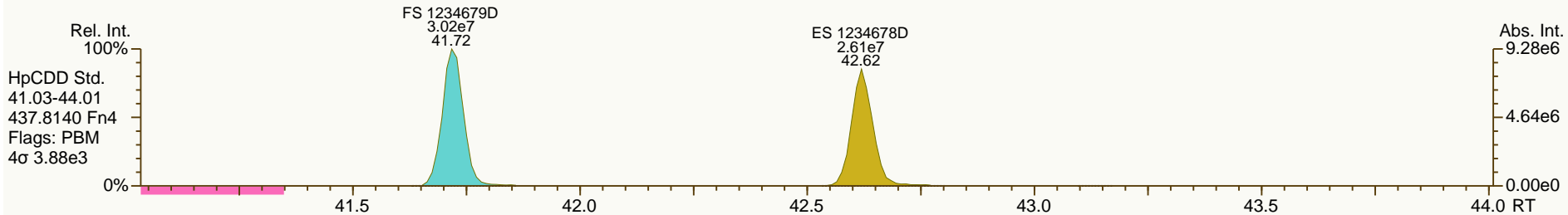
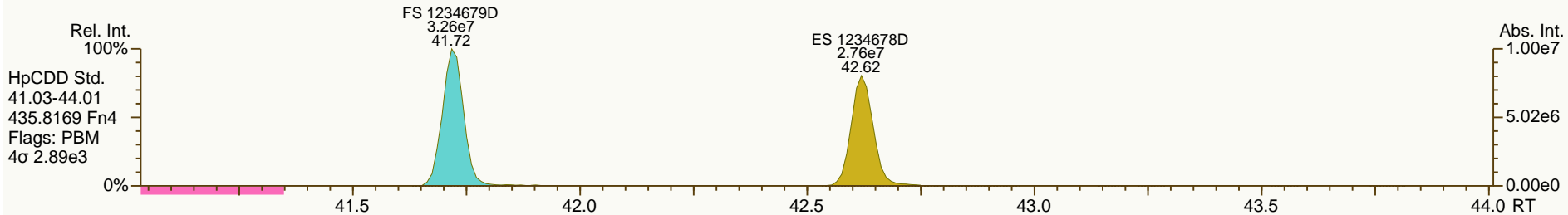
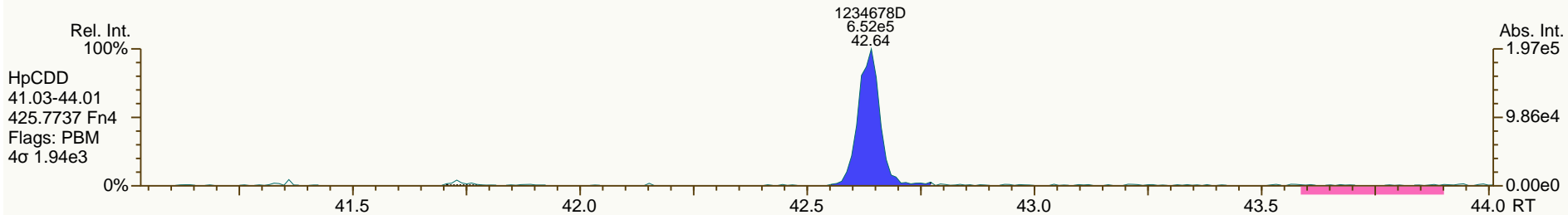
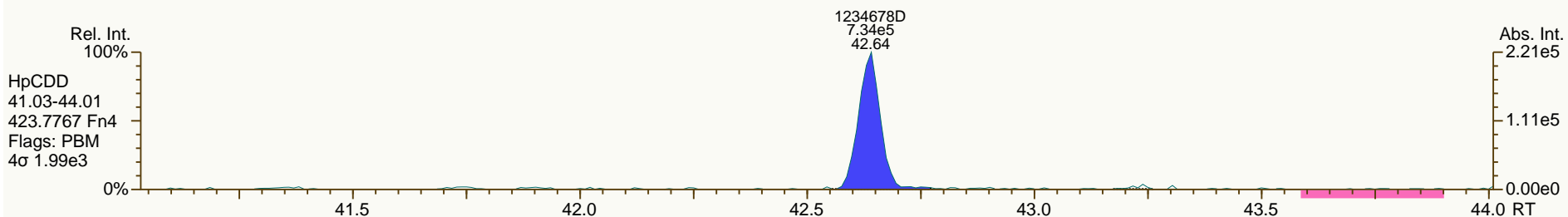
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 User: MDC Datafile: 130918P1-03



SGS-AP ID: CS1
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

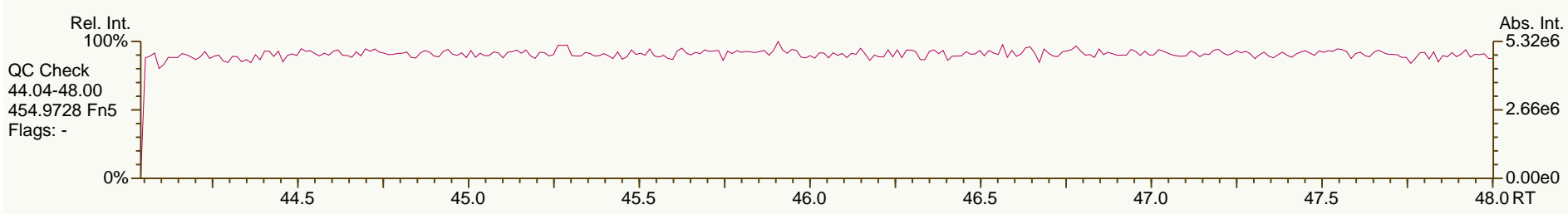
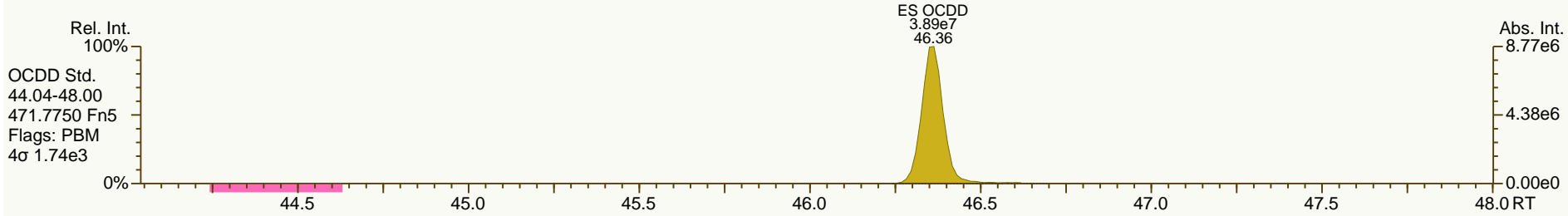
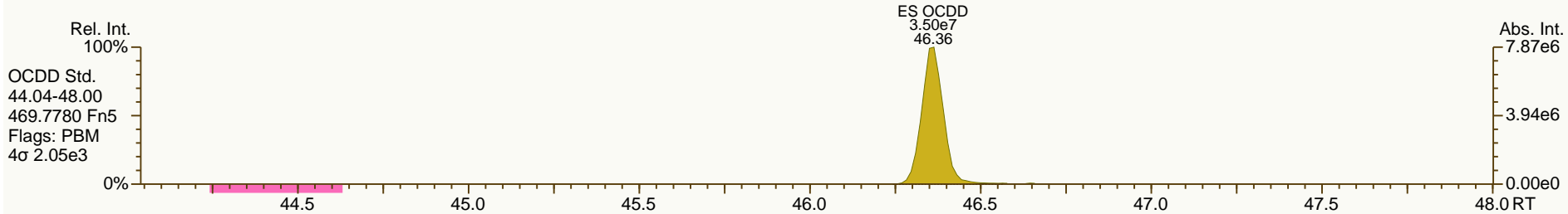
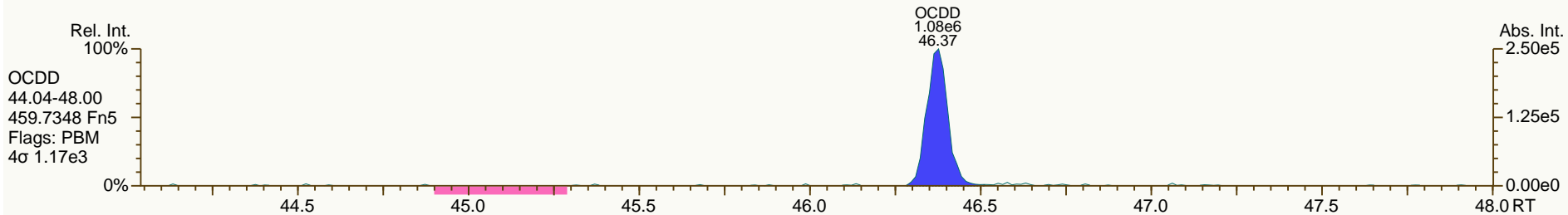
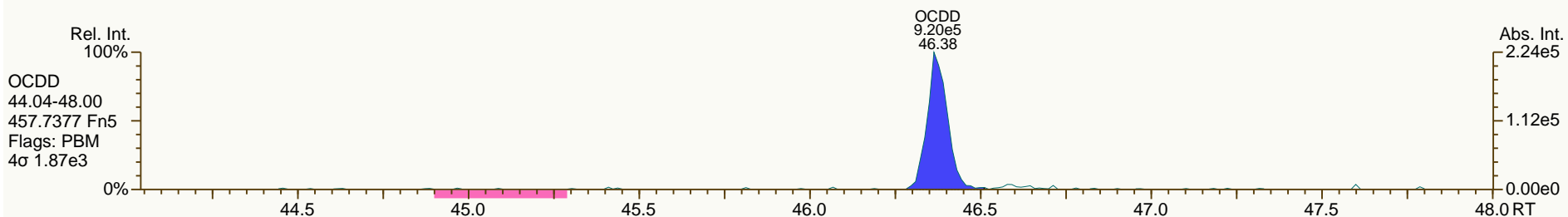
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SGS-AP ID: CS1
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

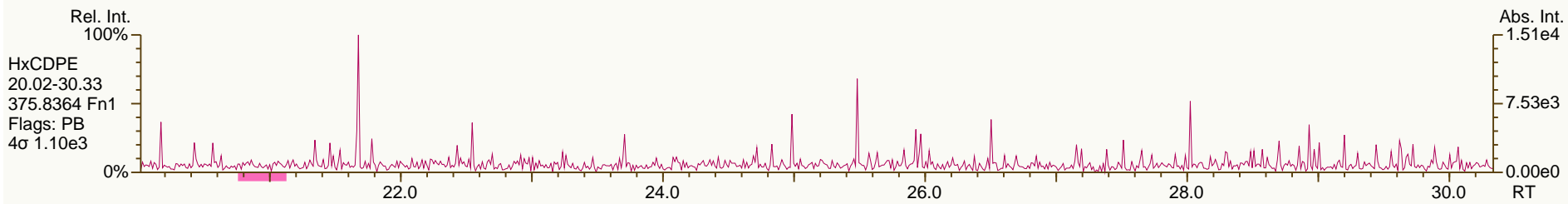
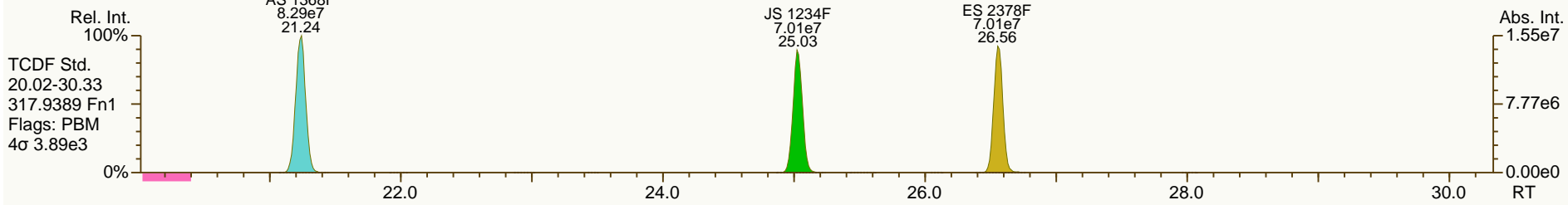
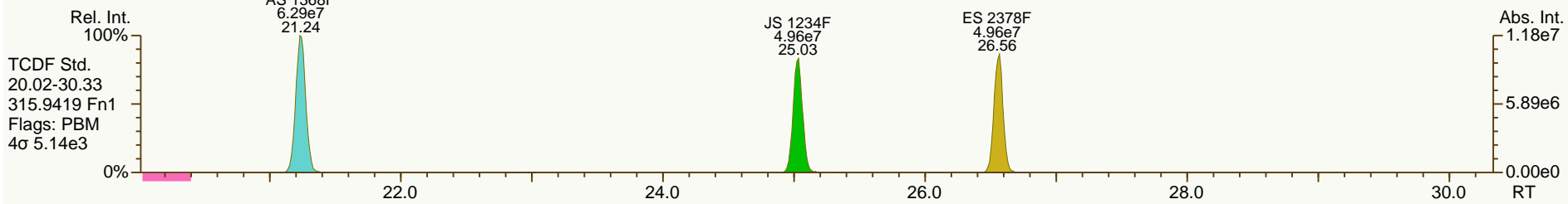
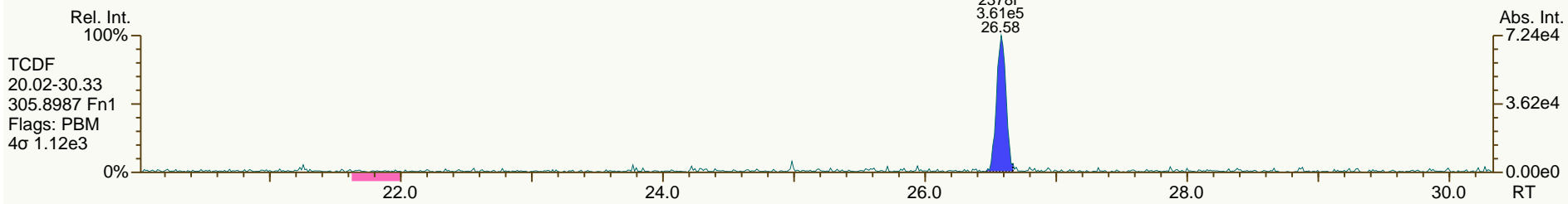
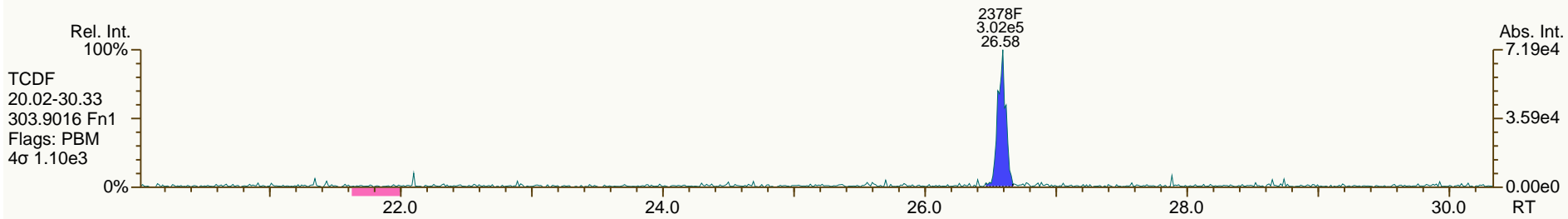
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SGS-AP ID: CS1
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
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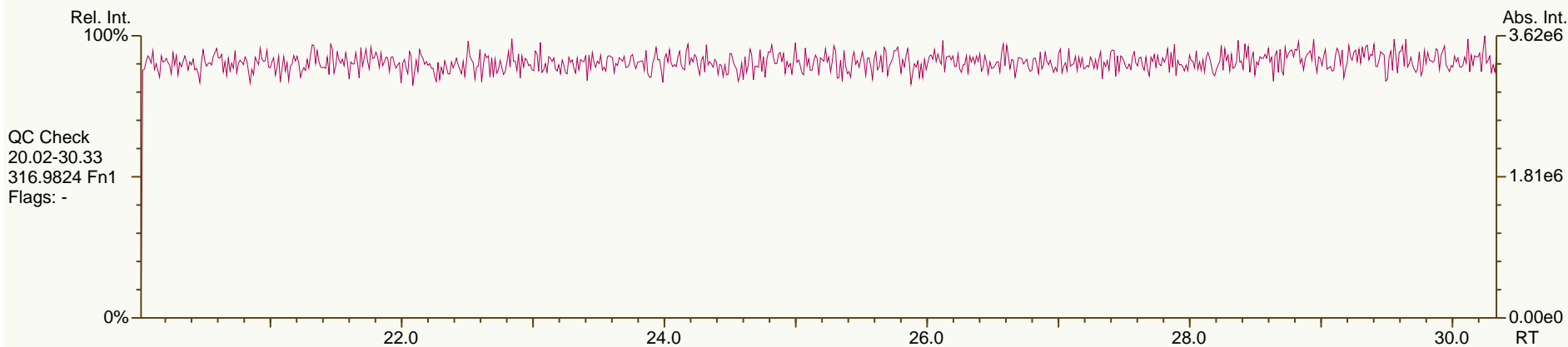
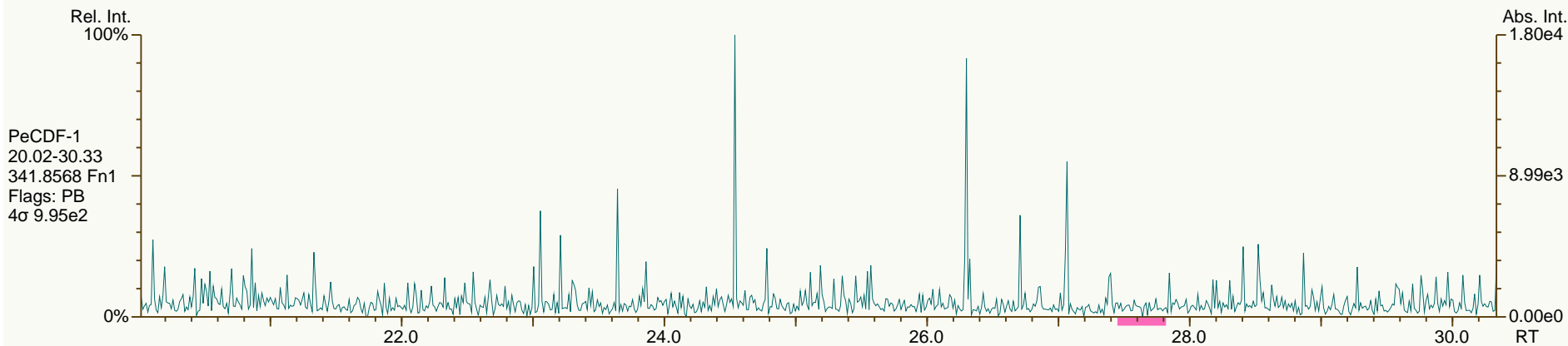
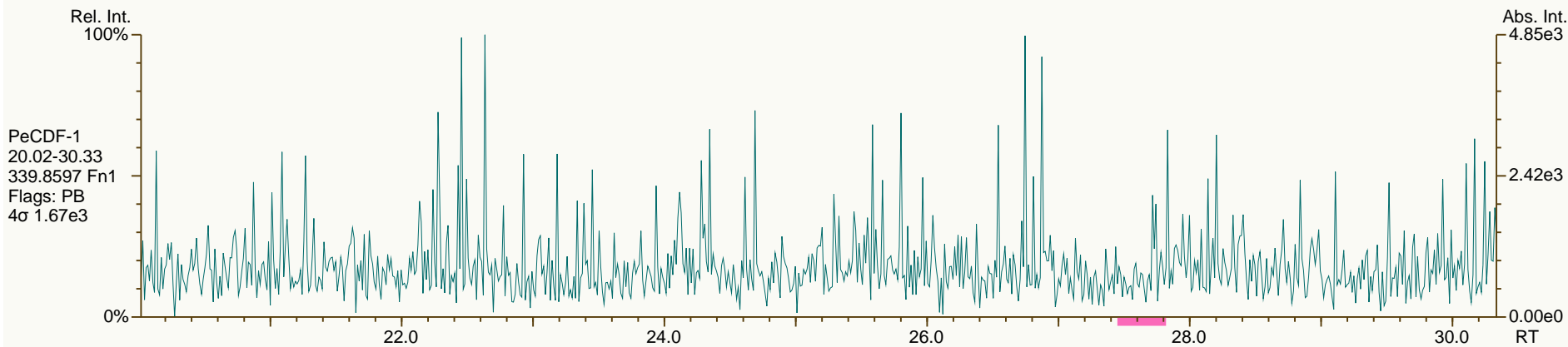
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SGS-AP ID: CS1
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
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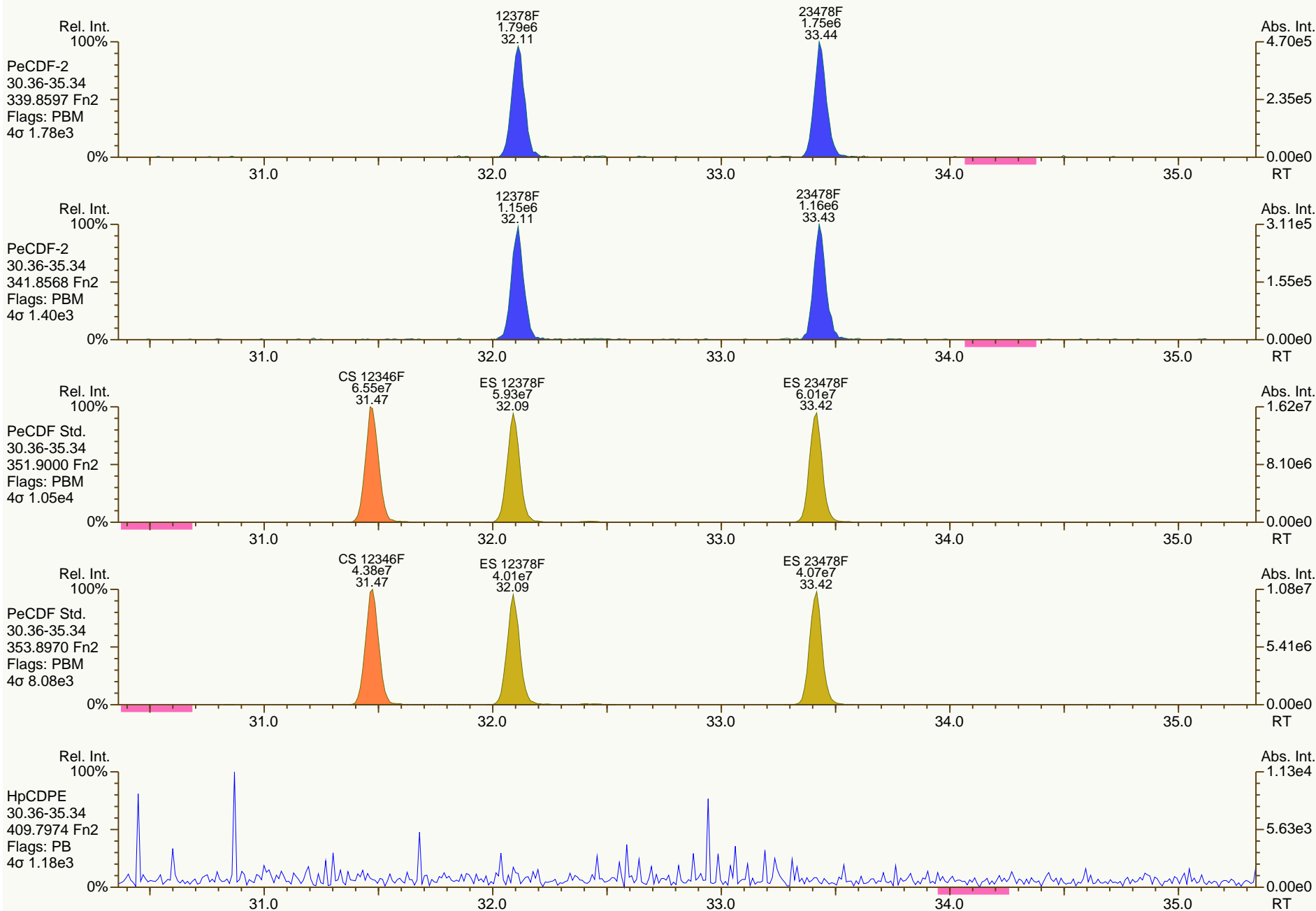
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SGS-AP ID: CS1
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

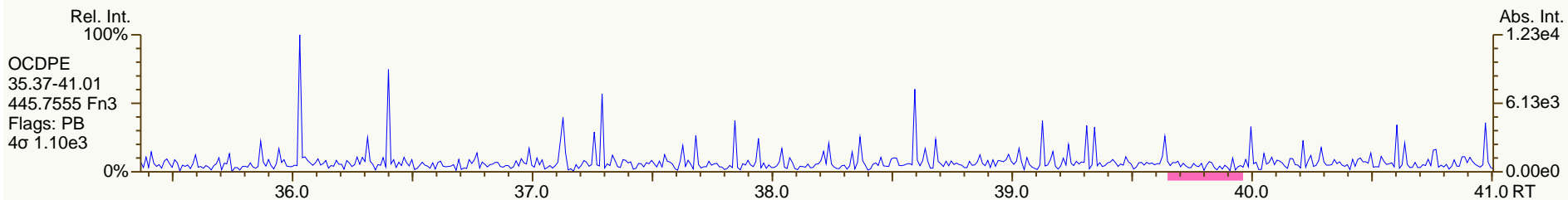
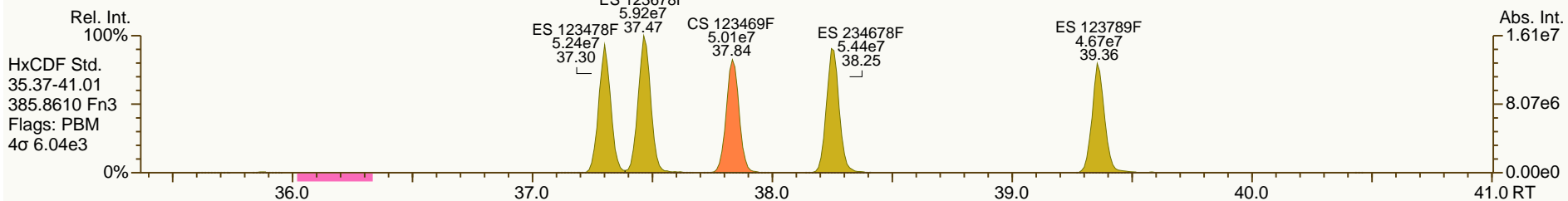
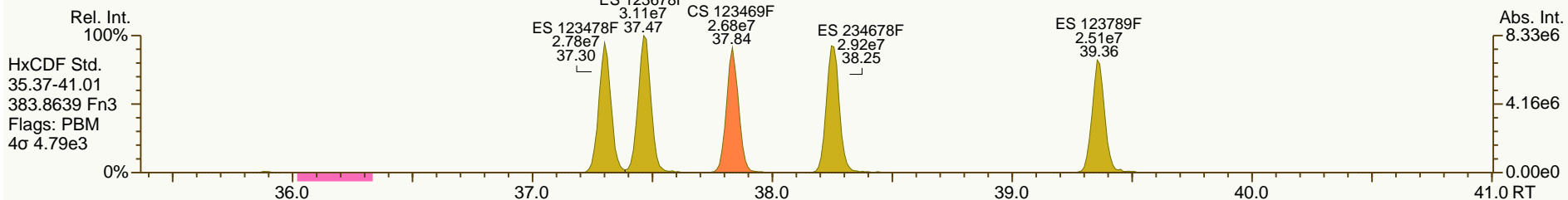
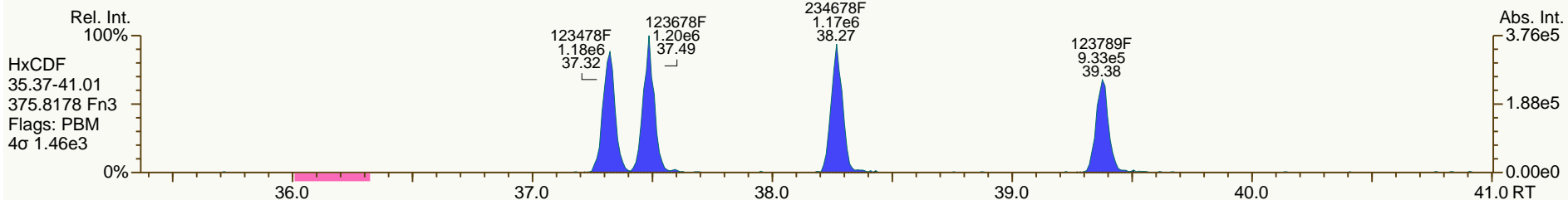
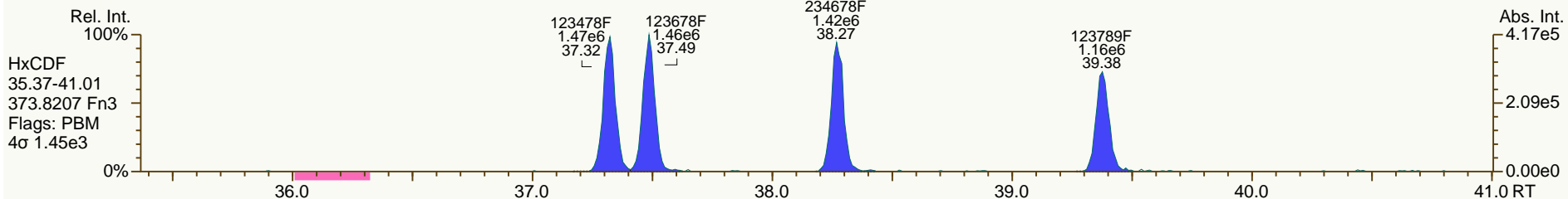
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SGS-AP ID: CS1
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
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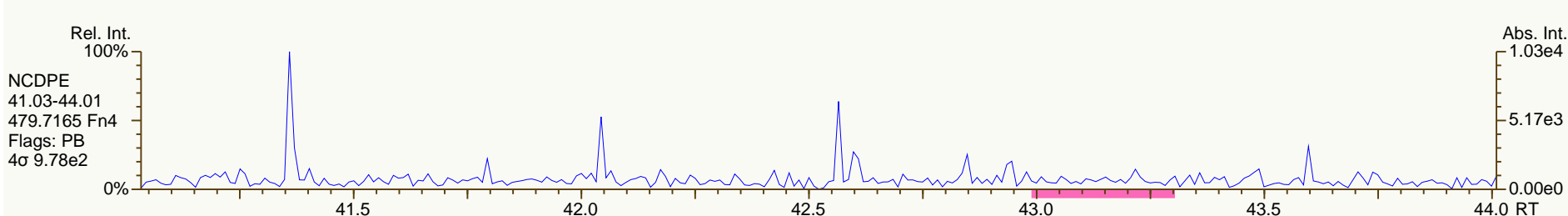
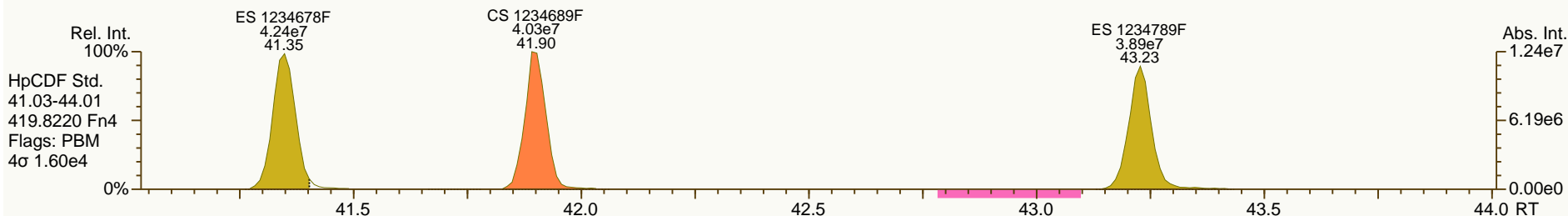
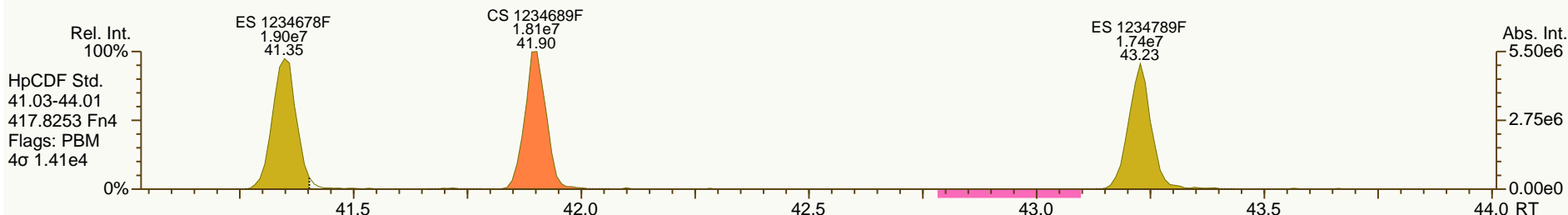
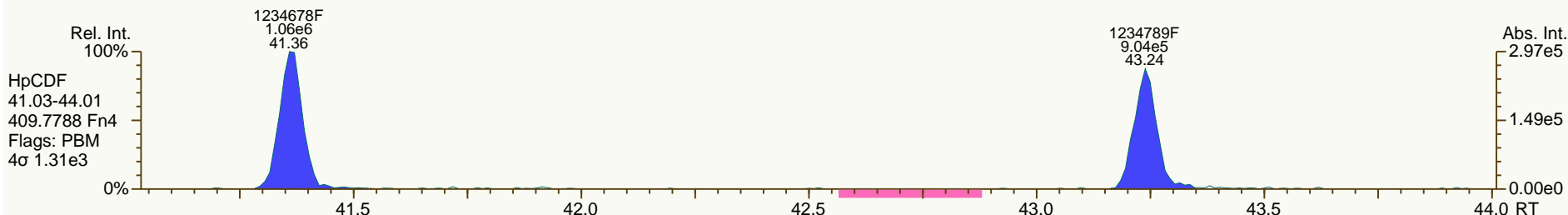
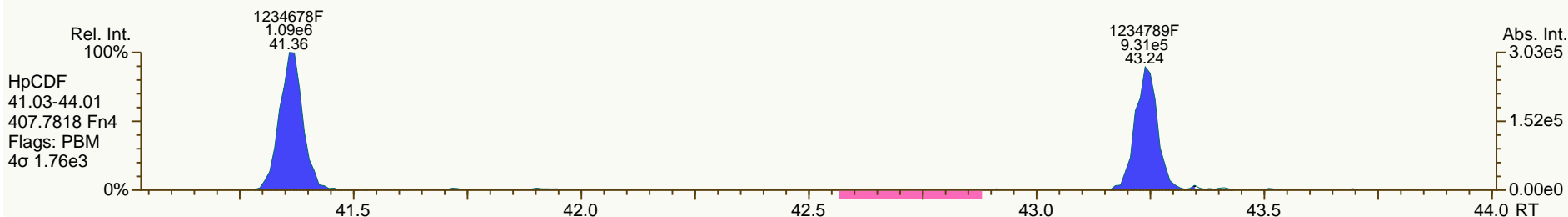
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SGS-AP ID: CS1
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

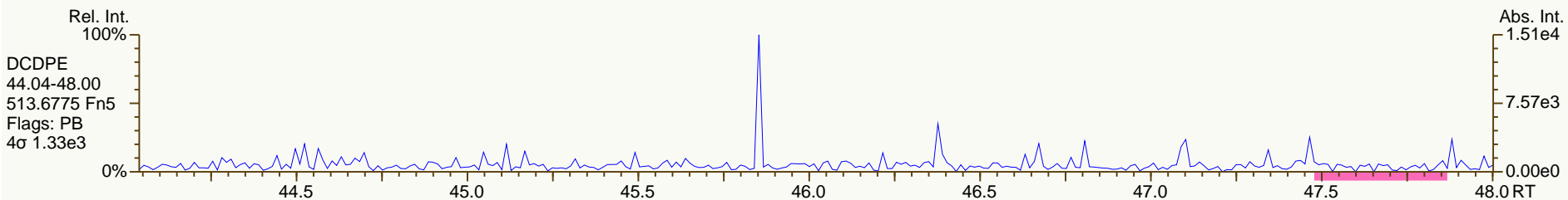
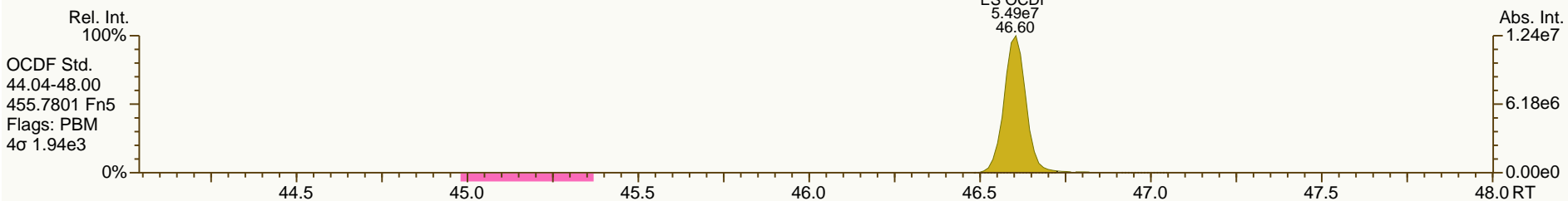
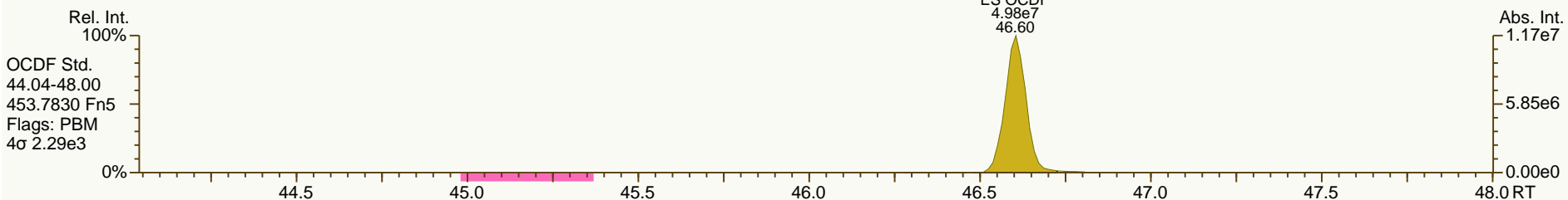
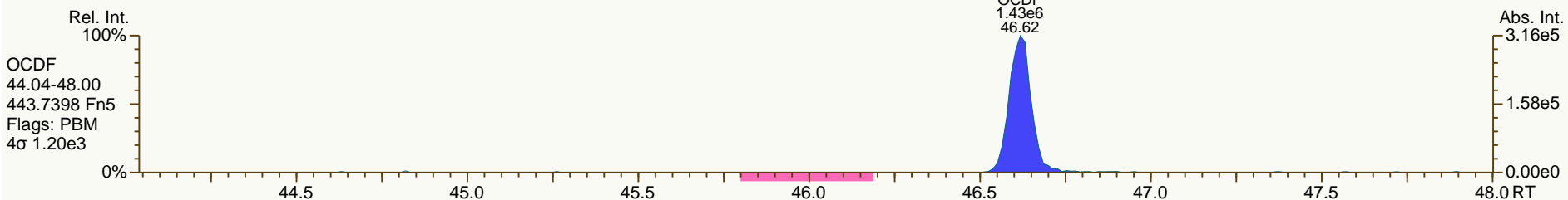
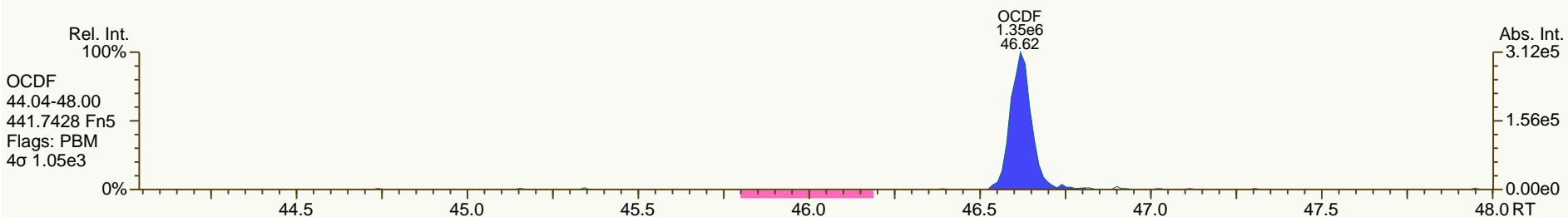
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SGS-AP ID: CS1
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Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

Acq: 18-SEP-2013 12:31:56
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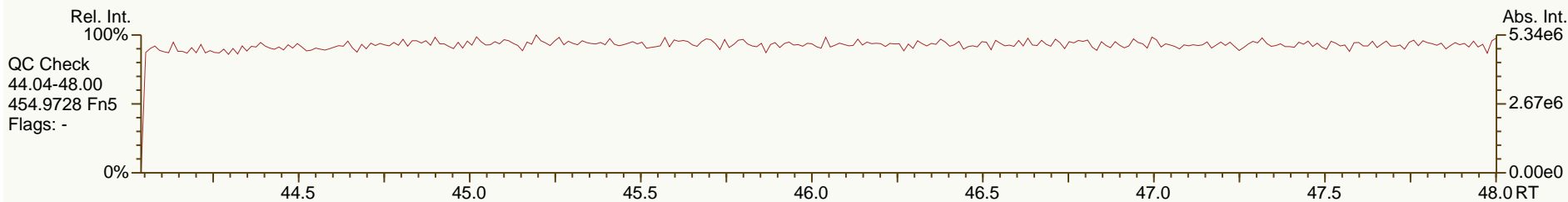
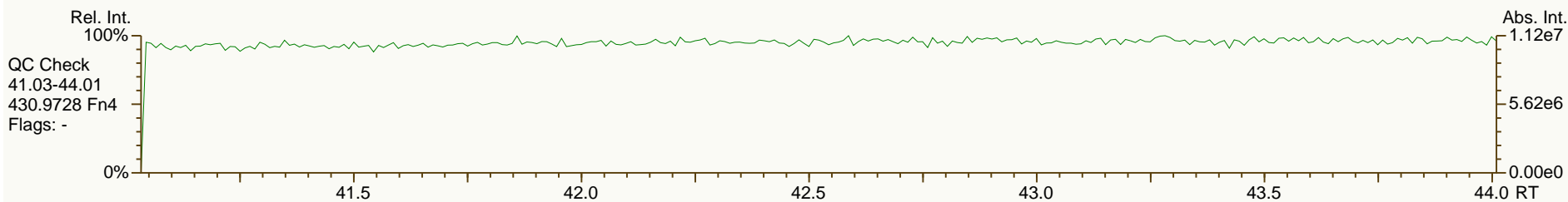
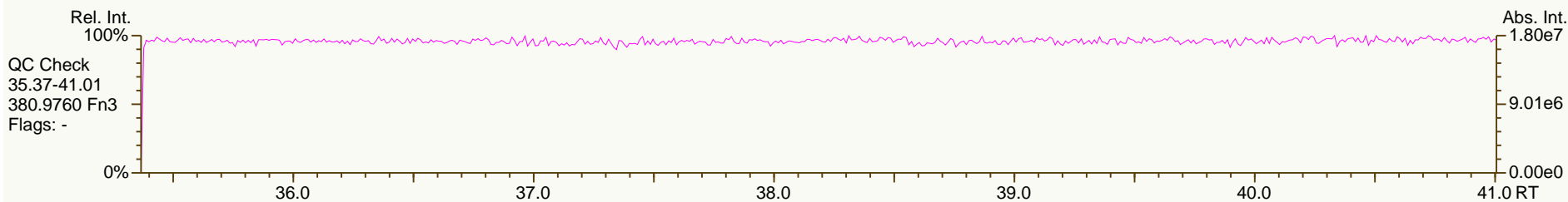
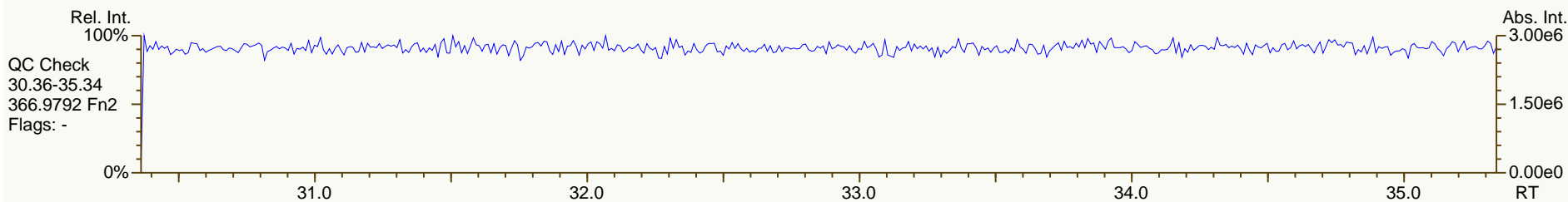
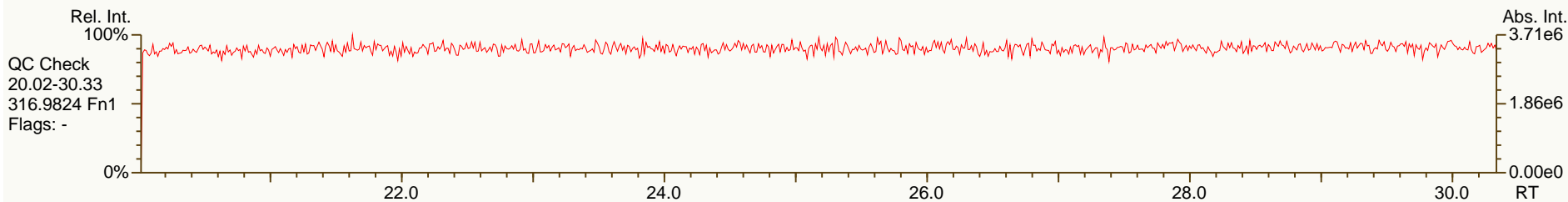


Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 13:24 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS2		UTP: 18-Sep-2013 14:25 MDC			Checkcode: 013-506-QDR		
Sample ID: 11012012A		Report: 19 Sep 2013 09:11 MC			Datafile: 130918P1-04		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.56	1.71E+06	0.86	Y	1.18	1.19	0%
12378-PeCDD	33.84	6.44E+06	1.66	Y	1.07	1.04	-3%
123478-HxCDD	38.49	5.78E+06	1.25	Y	1.19	1.12	-6%
123678-HxCDD	38.62	5.79E+06	1.27	Y	1.19	1.20	1%
123789-HxCDD	38.96	5.99E+06	1.29	Y	1.12	1.10	-1%
1234678-HpCDD	42.64	5.35E+06	1.03	Y	1.08	1.06	-3%
OCDD	46.38	7.69E+06	0.90	Y	1.14	1.12	-2%
2378-TCDF	26.57	2.55E+06	0.78	Y	1.10	1.12	2%
12378-PeCDF	32.10	1.09E+07	1.54	Y	1.17	1.13	-3%
23478-PeCDF	33.43	1.11E+07	1.57	Y	1.14	1.09	-5%
123478-HxCDF	37.31	9.87E+06	1.24	Y	1.34	1.30	-3%
123678-HxCDF	37.48	1.03E+07	1.25	Y	1.23	1.21	-2%
234678-HxCDF	38.27	9.85E+06	1.24	Y	1.26	1.23	-3%
123789-HxCDF	39.37	8.10E+06	1.26	Y	1.23	1.20	-2%
1234678-HpCDF	41.36	8.04E+06	1.04	Y	1.42	1.35	-5%
1234789-HpCDF	43.24	7.08E+06	1.03	Y	1.39	1.35	-3%
OCDF	46.62	1.05E+07	0.91	Y	1.11	1.06	-4%
ES 2378-TCDD	27.54	7.23E+07	0.80	Y	1.02	1.00	-3%
ES 12378-PeCDD	33.82	6.20E+07	1.58	Y	0.92	0.85	-7%
ES 123478-HxCDD	38.47	5.16E+07	1.22	Y	1.02	0.99	-3%
ES 123678-HxCDD	38.60	4.82E+07	1.18	Y	1.01	0.93	-8%
ES 123789-HxCDD	38.94	5.43E+07	1.18	Y	1.14	1.05	-8%
ES 1234678-HpCDD	42.62	5.07E+07	1.07	Y	1.02	0.98	-5%
ES OCDD	46.36	6.86E+07	0.88	Y	0.72	0.66	-8%
ES 2378-TCDF	26.55	1.14E+08	0.70	Y	1.01	0.97	-4%
ES 12378-PeCDF	32.08	9.63E+07	1.49	Y	0.89	0.82	-8%
ES 23478-PeCDF	33.41	1.02E+08	1.50	Y	0.91	0.86	-5%
ES 123478-HxCDF	37.30	7.56E+07	0.54	Y	1.53	1.46	-5%
ES 123678-HxCDF	37.46	8.52E+07	0.54	Y	1.73	1.64	-5%
ES 234678-HxCDF	38.25	8.04E+07	0.53	Y	1.61	1.55	-4%
ES 123789-HxCDF	39.36	6.74E+07	0.54	Y	1.39	1.30	-7%
ES 1234678-HpCDF	41.34	5.96E+07	0.45	Y	1.20	1.15	-4%
ES 1234789-HpCDF	43.22	5.23E+07	0.44	Y	1.07	1.01	-6%
ES OCDF	46.60	9.84E+07	0.89	Y	1.04	0.95	-9%

SGS-AP ID: CS2
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

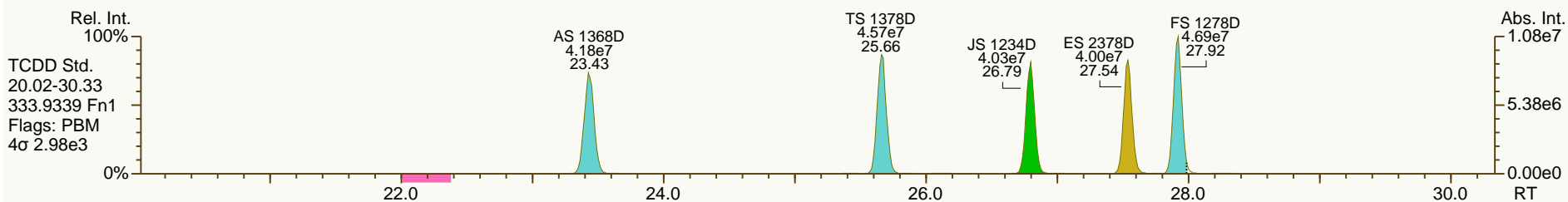
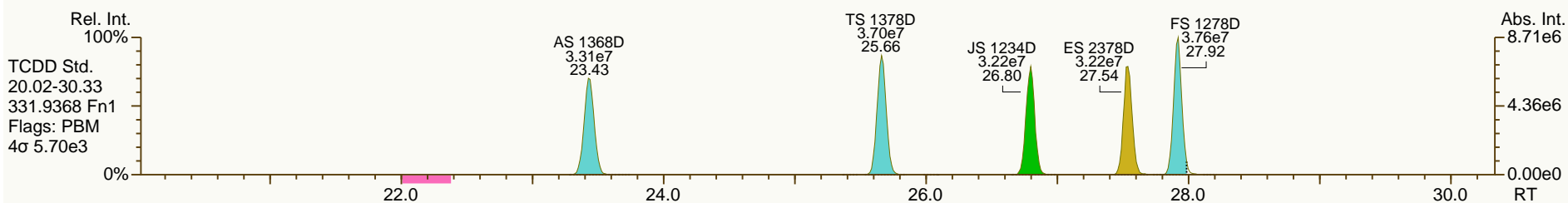
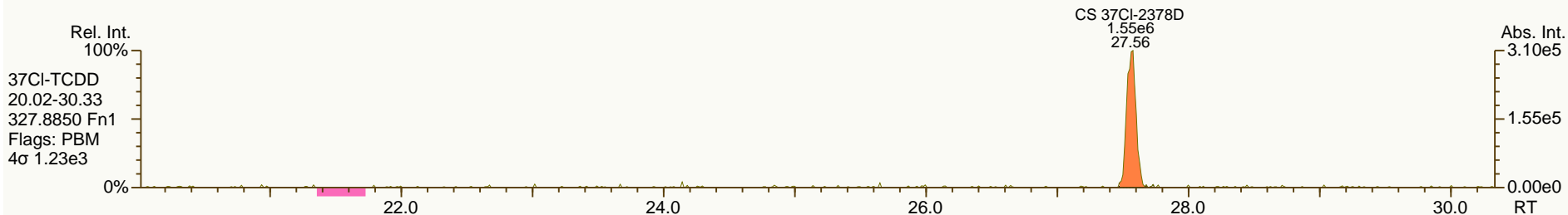
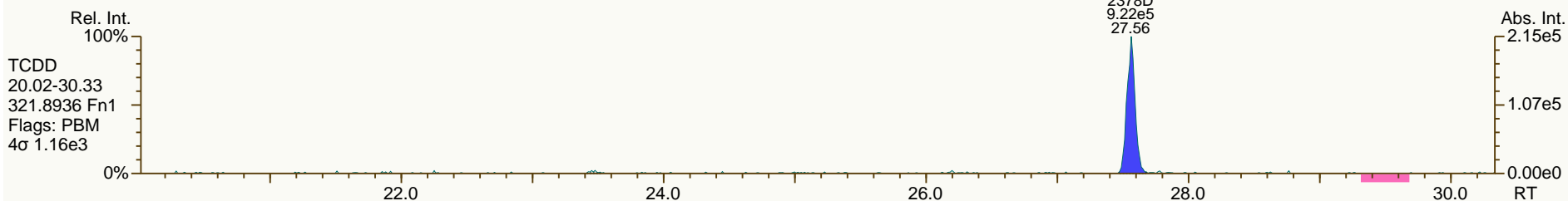
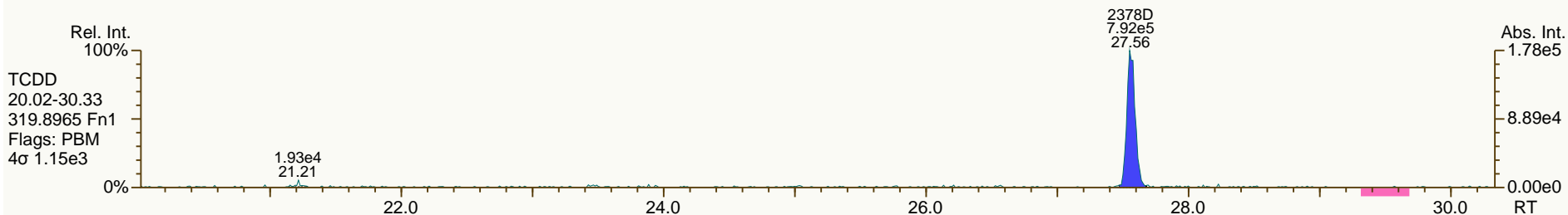
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SGS-AP ID: CS2
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
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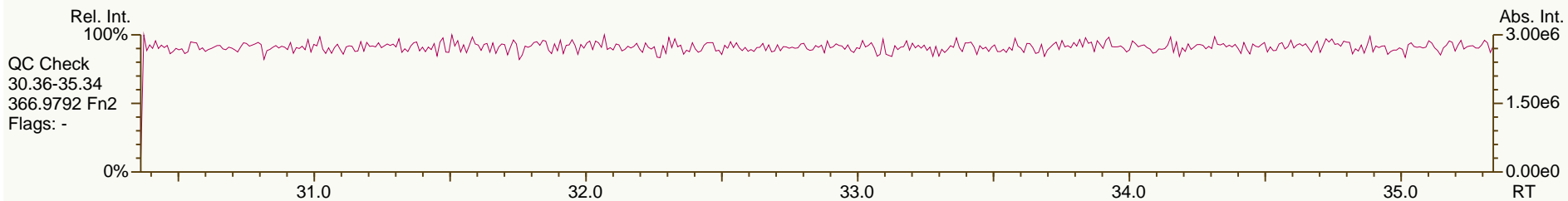
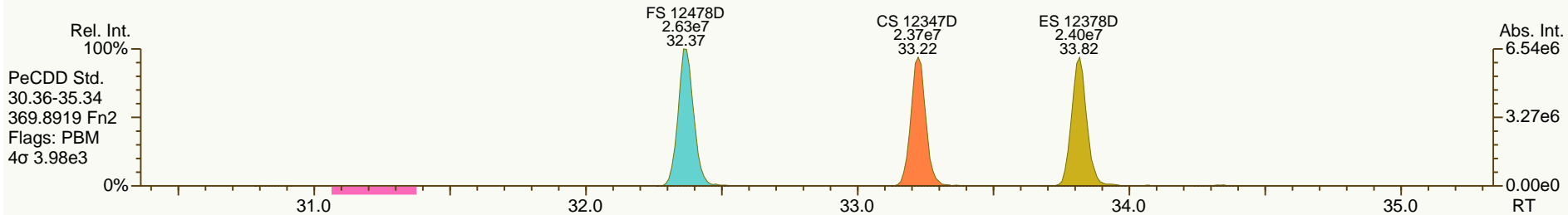
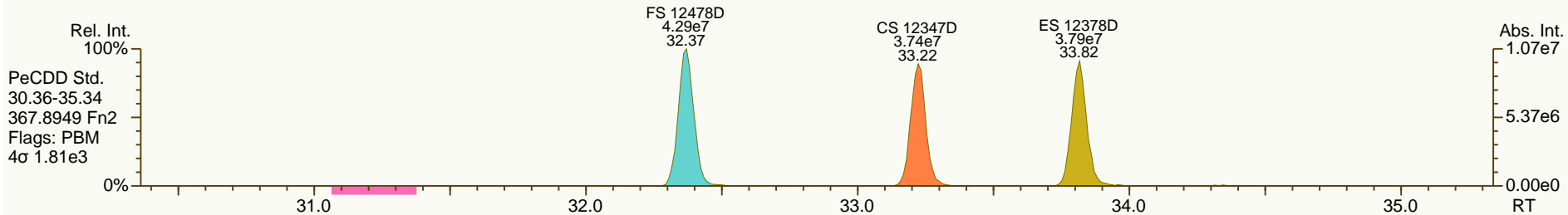
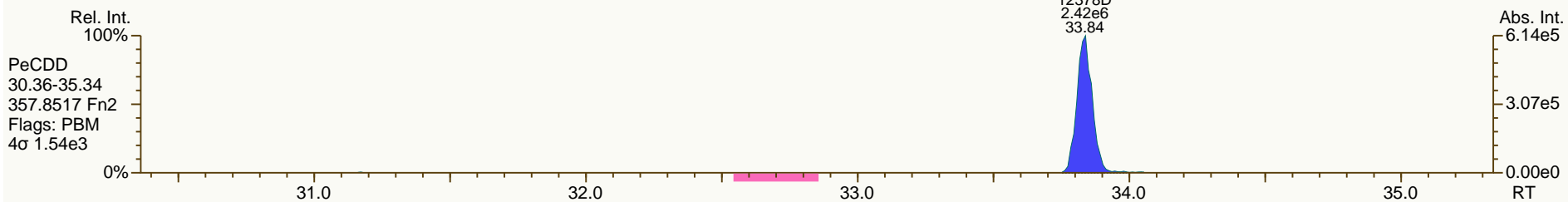
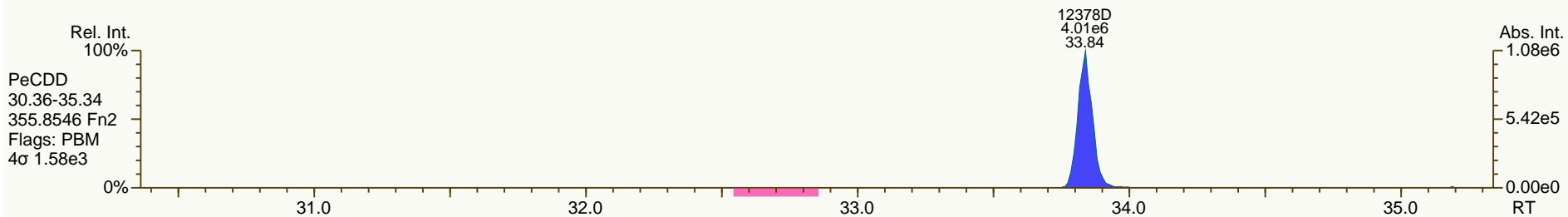
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SGS-AP ID: CS2
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Sample ID: 11012012A
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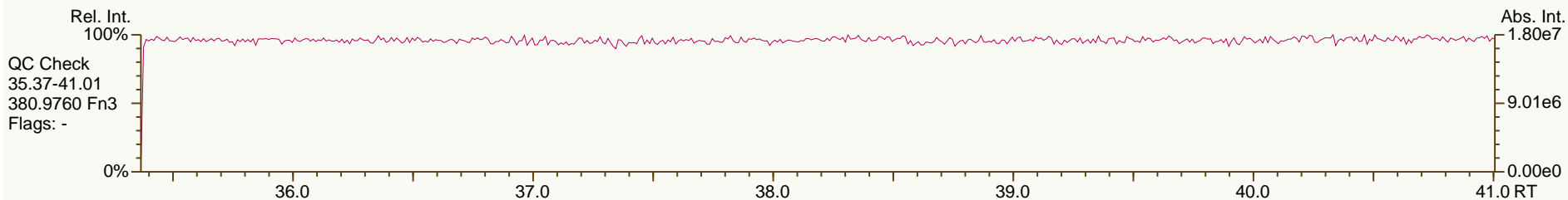
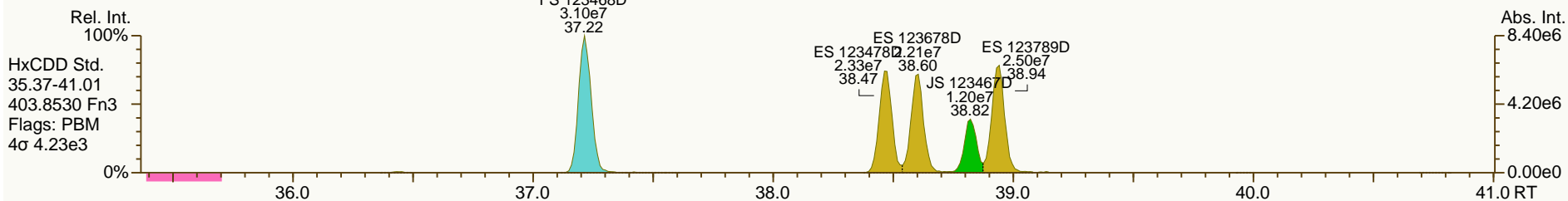
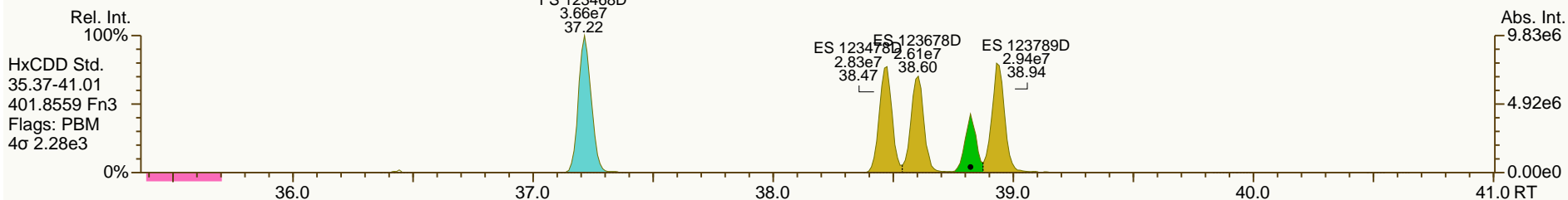
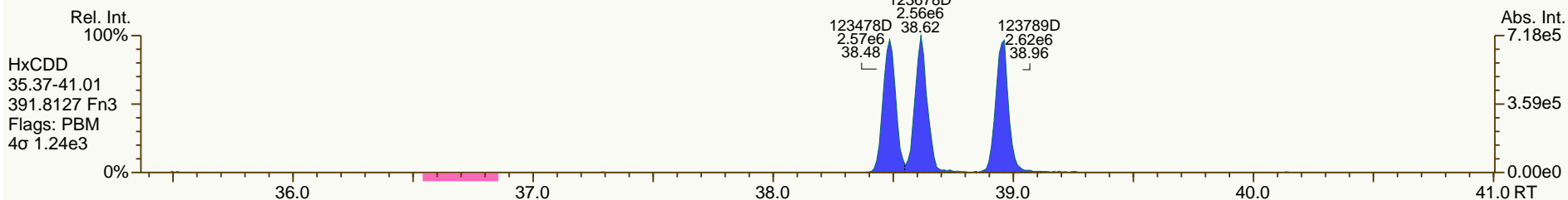
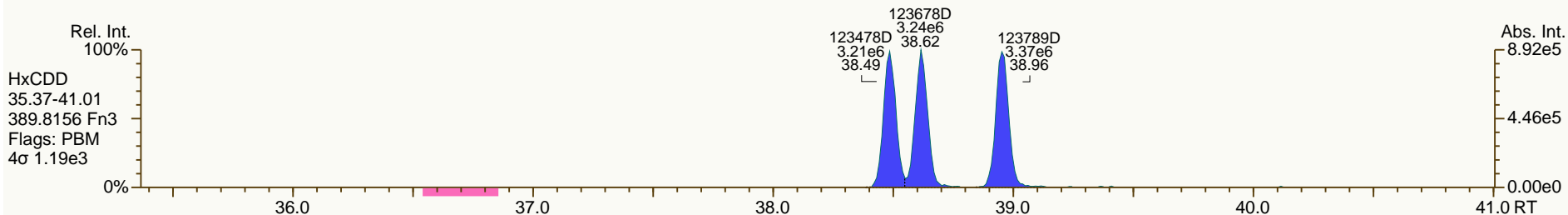
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SGS-AP ID: CS2
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Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

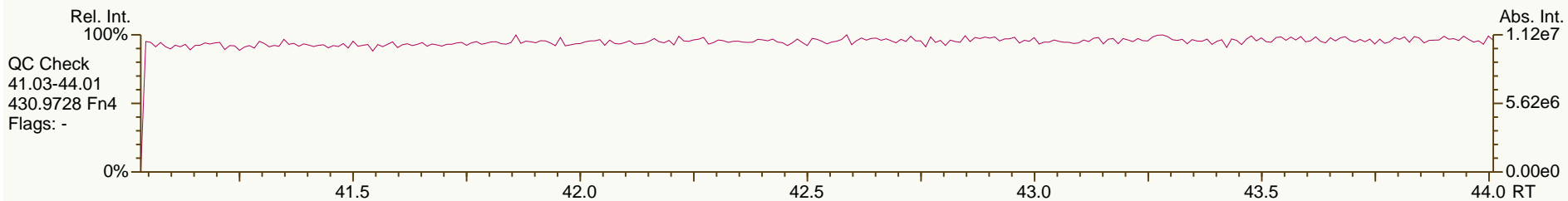
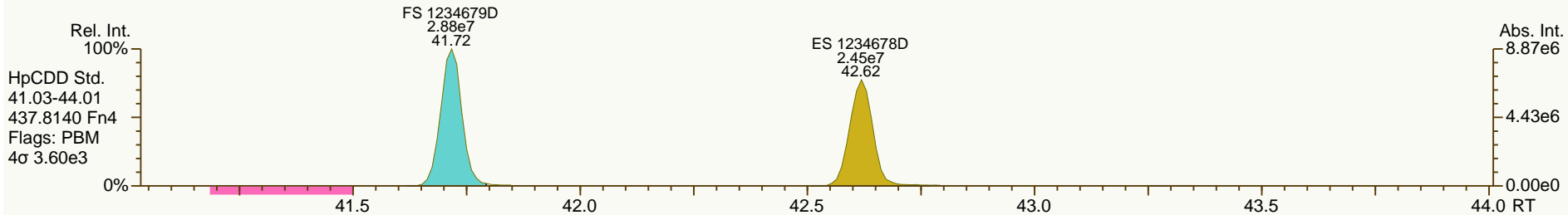
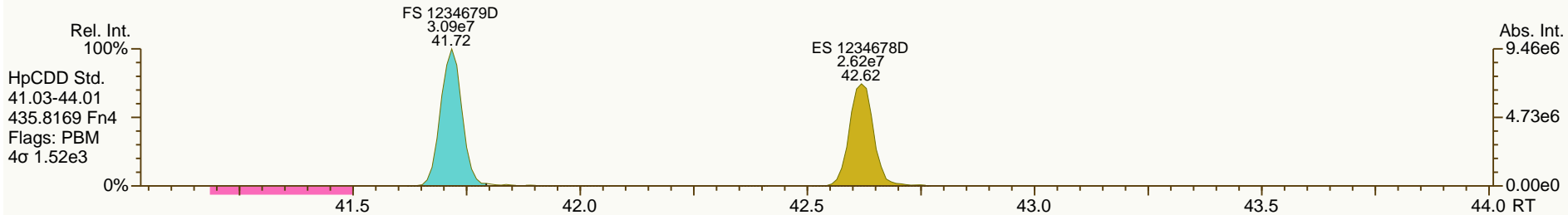
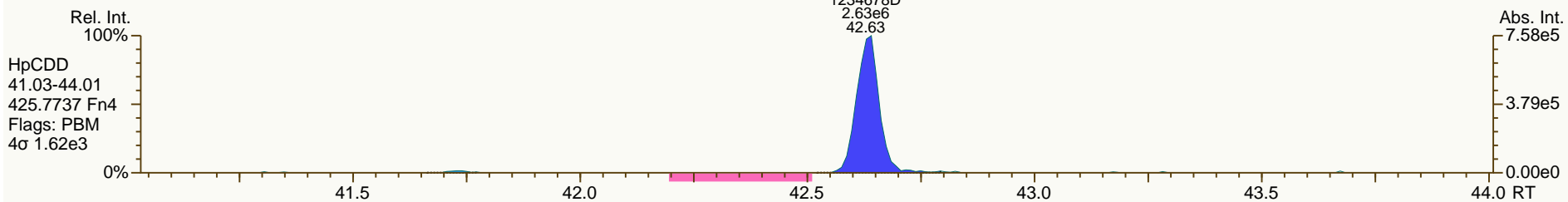
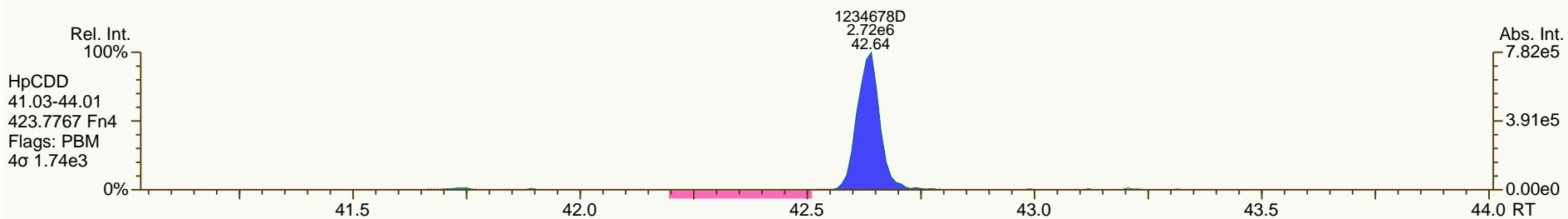
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SGS-AP ID: CS2
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Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

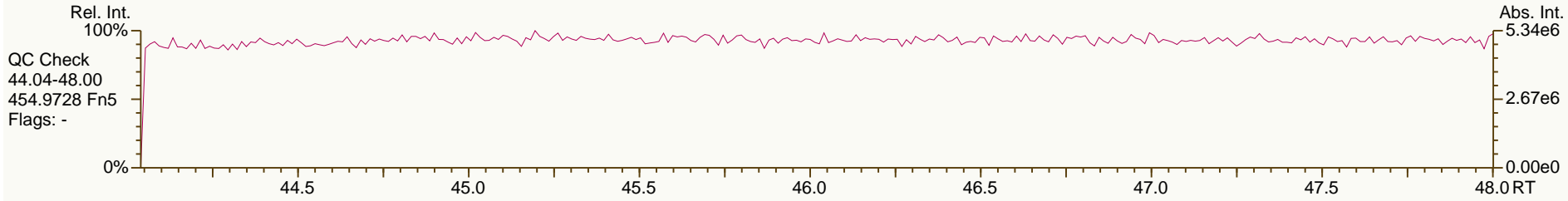
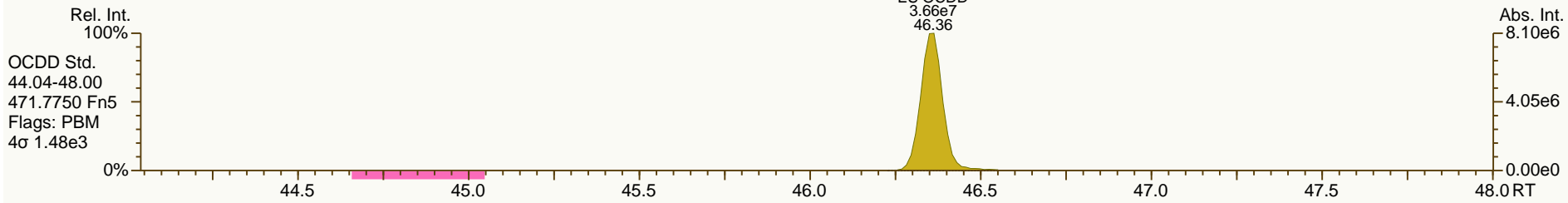
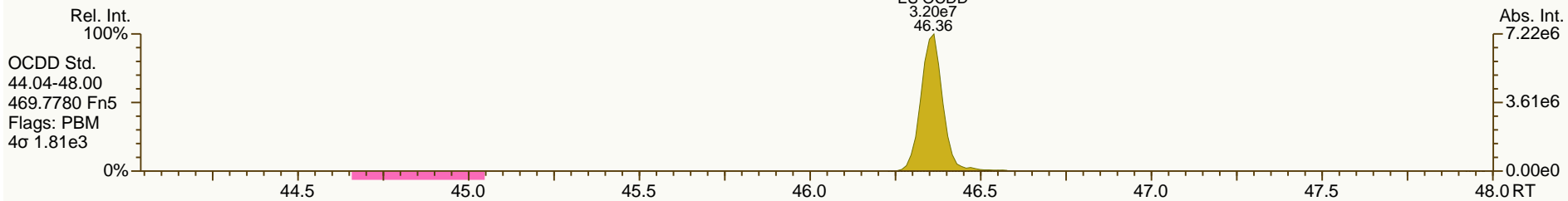
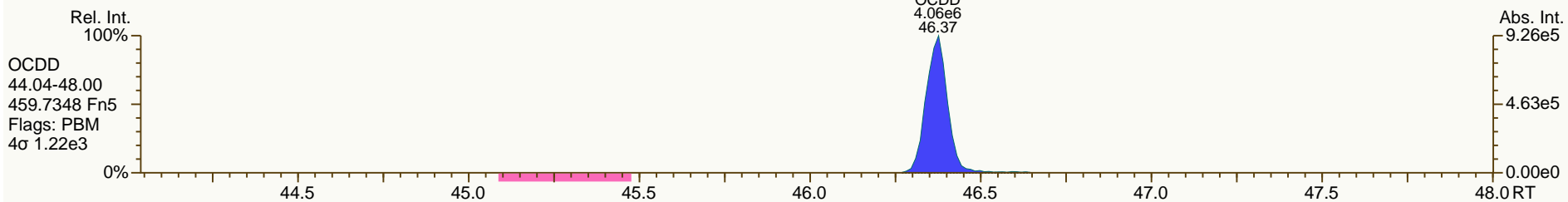
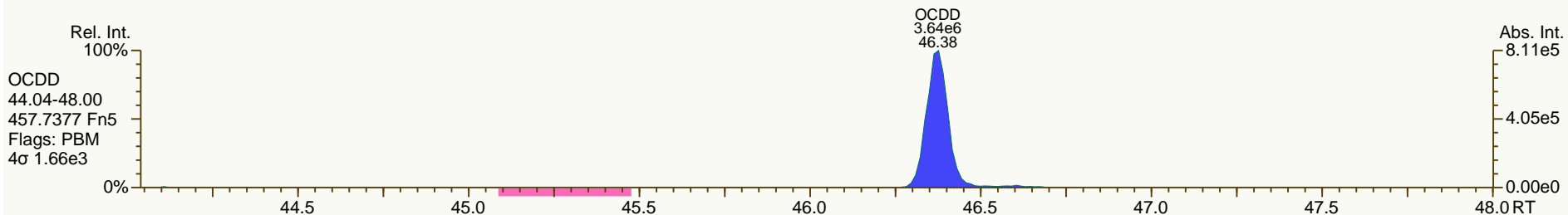
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SGS-AP ID: CS2
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Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

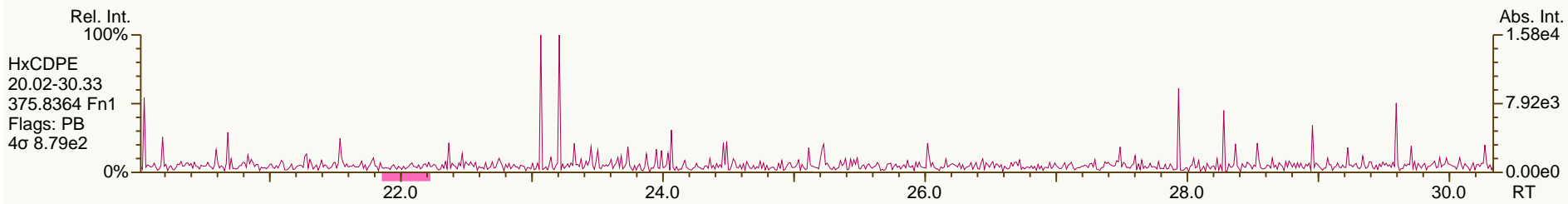
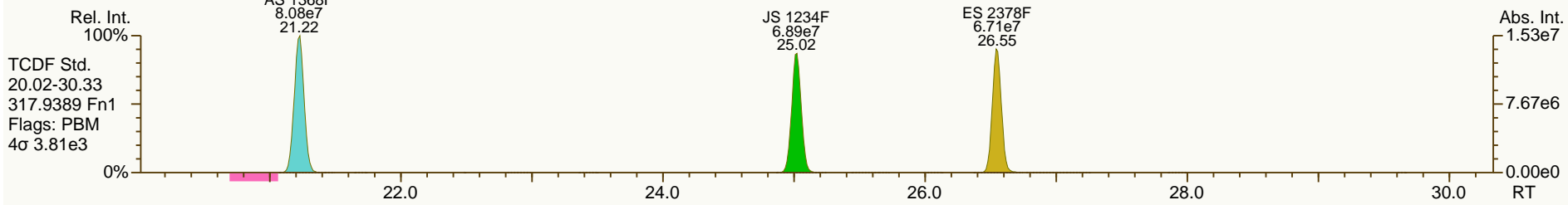
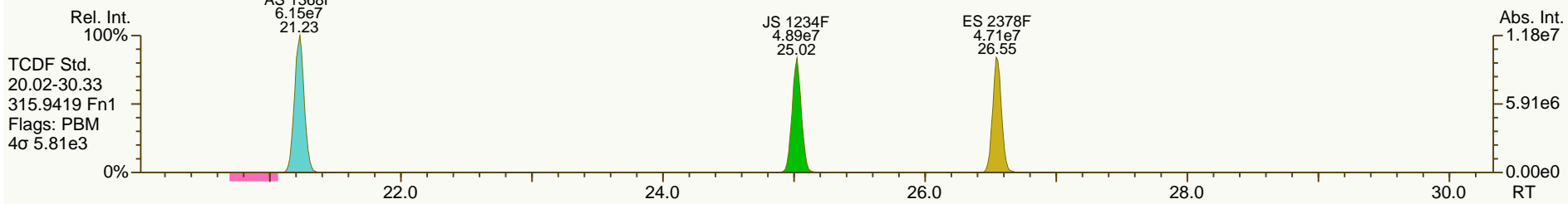
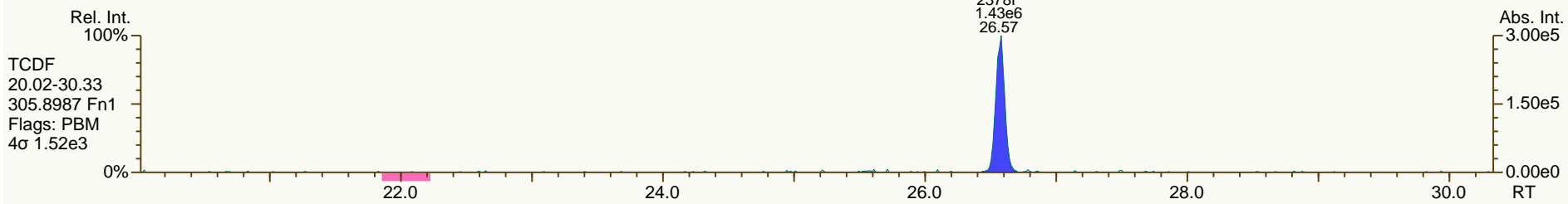
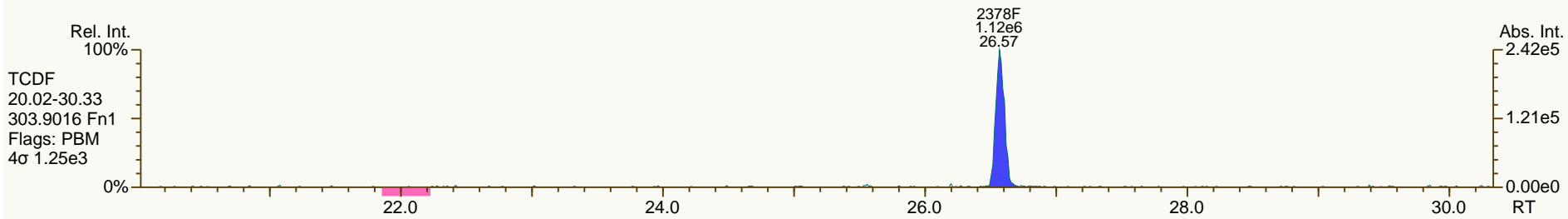
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Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

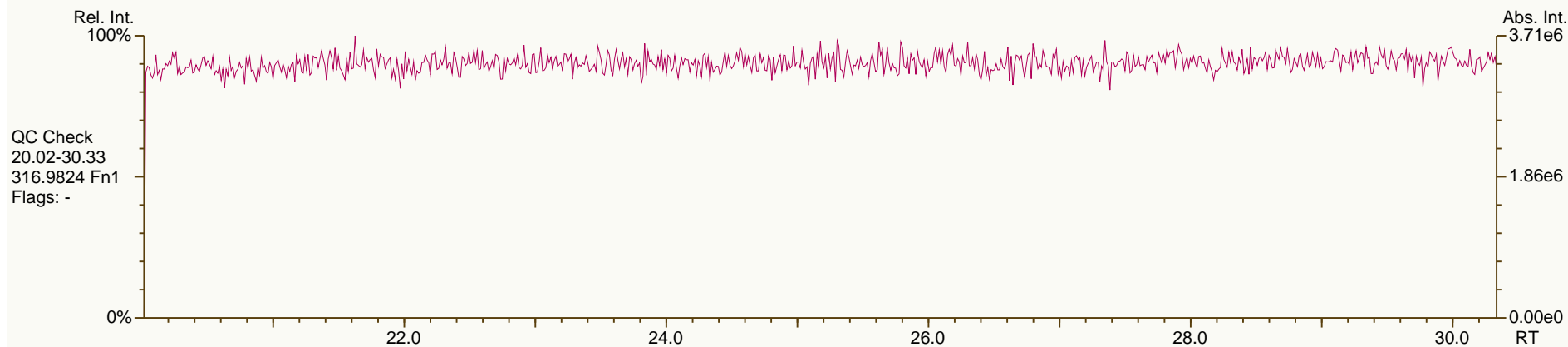
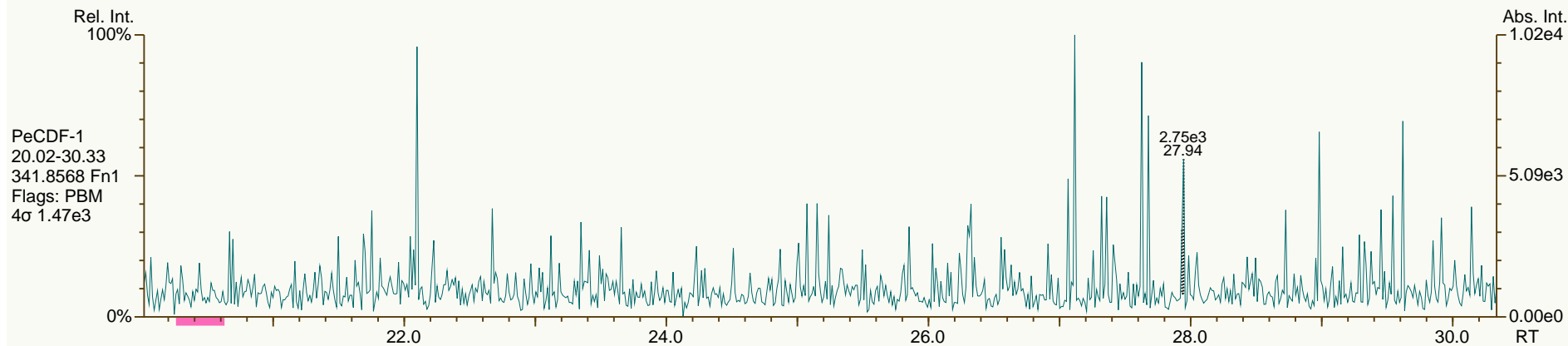
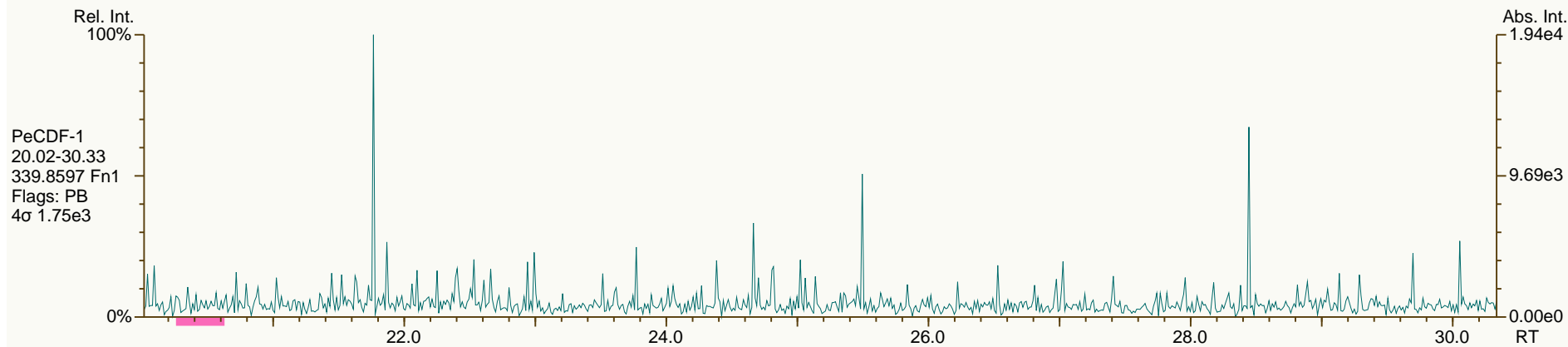
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SGS-AP ID: CS2
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

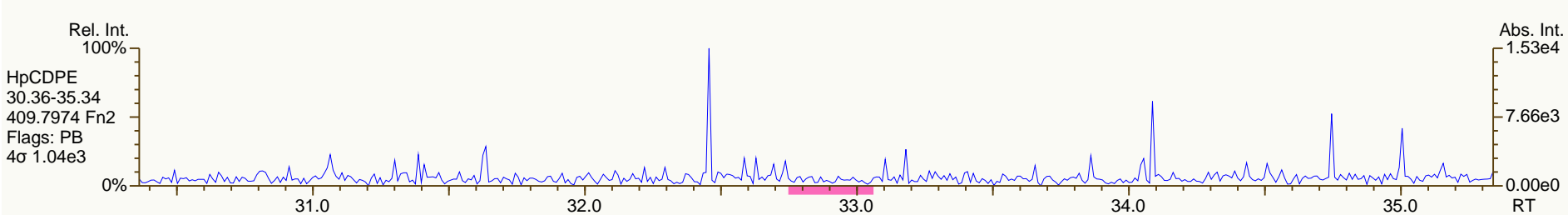
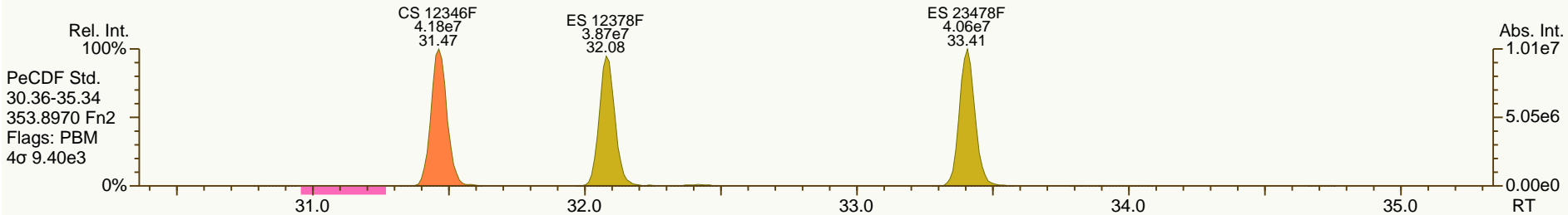
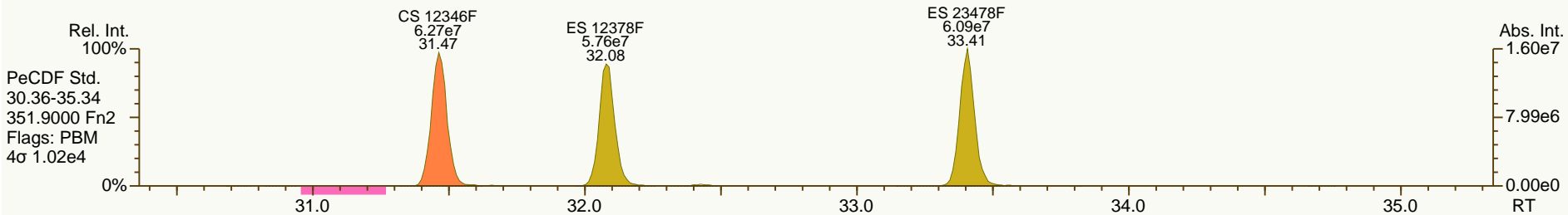
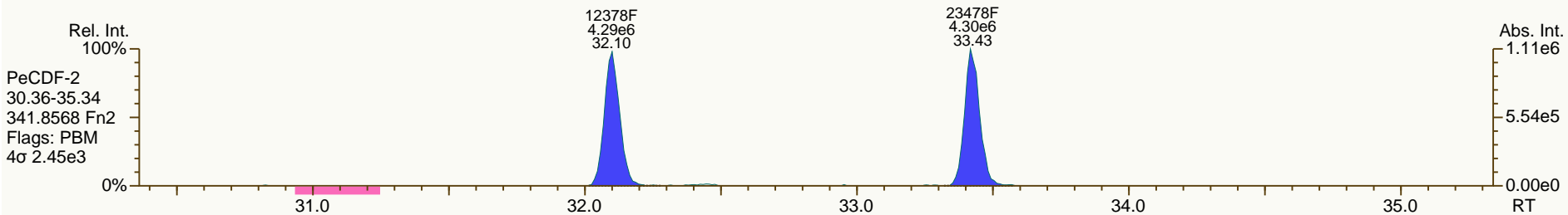
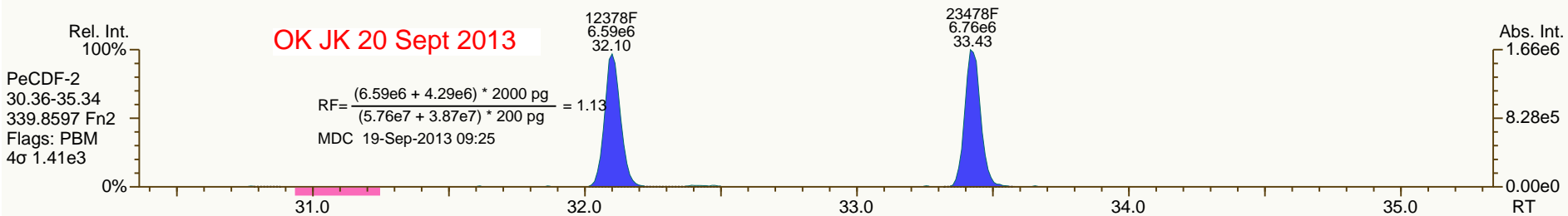
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SGS-AP ID: CS2
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

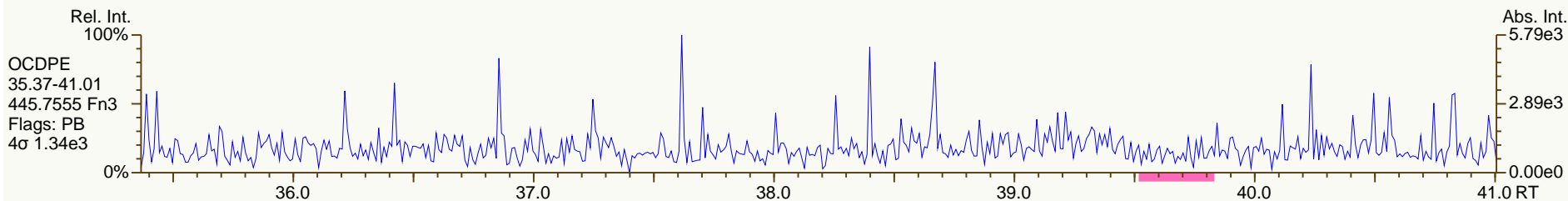
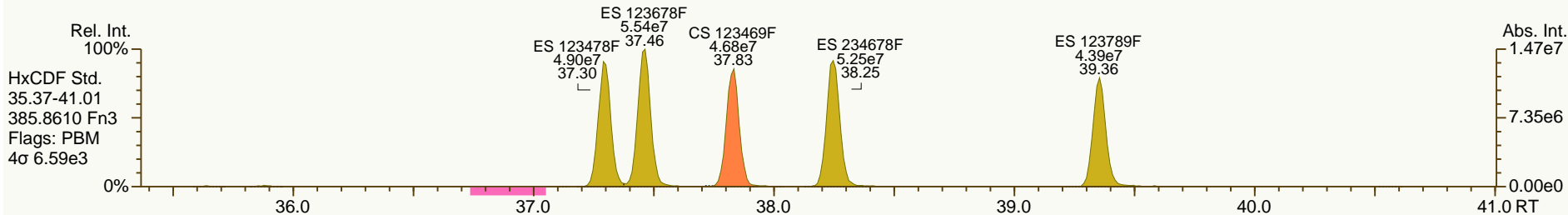
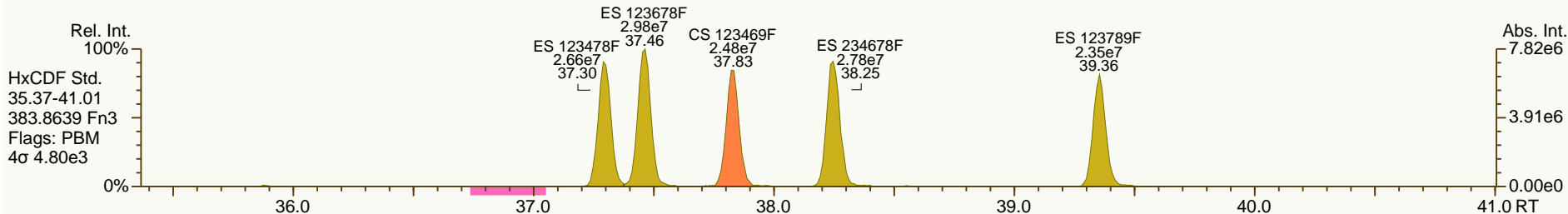
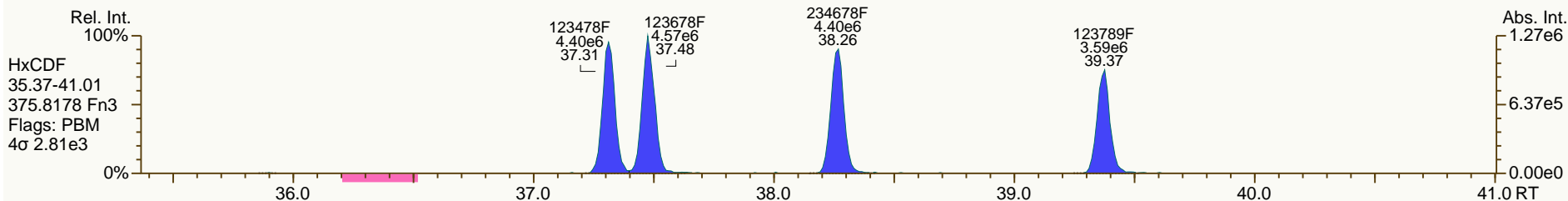
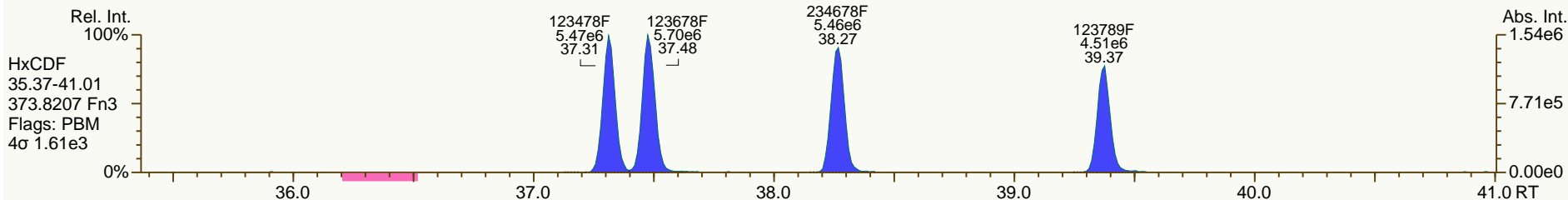
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SGS-AP ID: CS2
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
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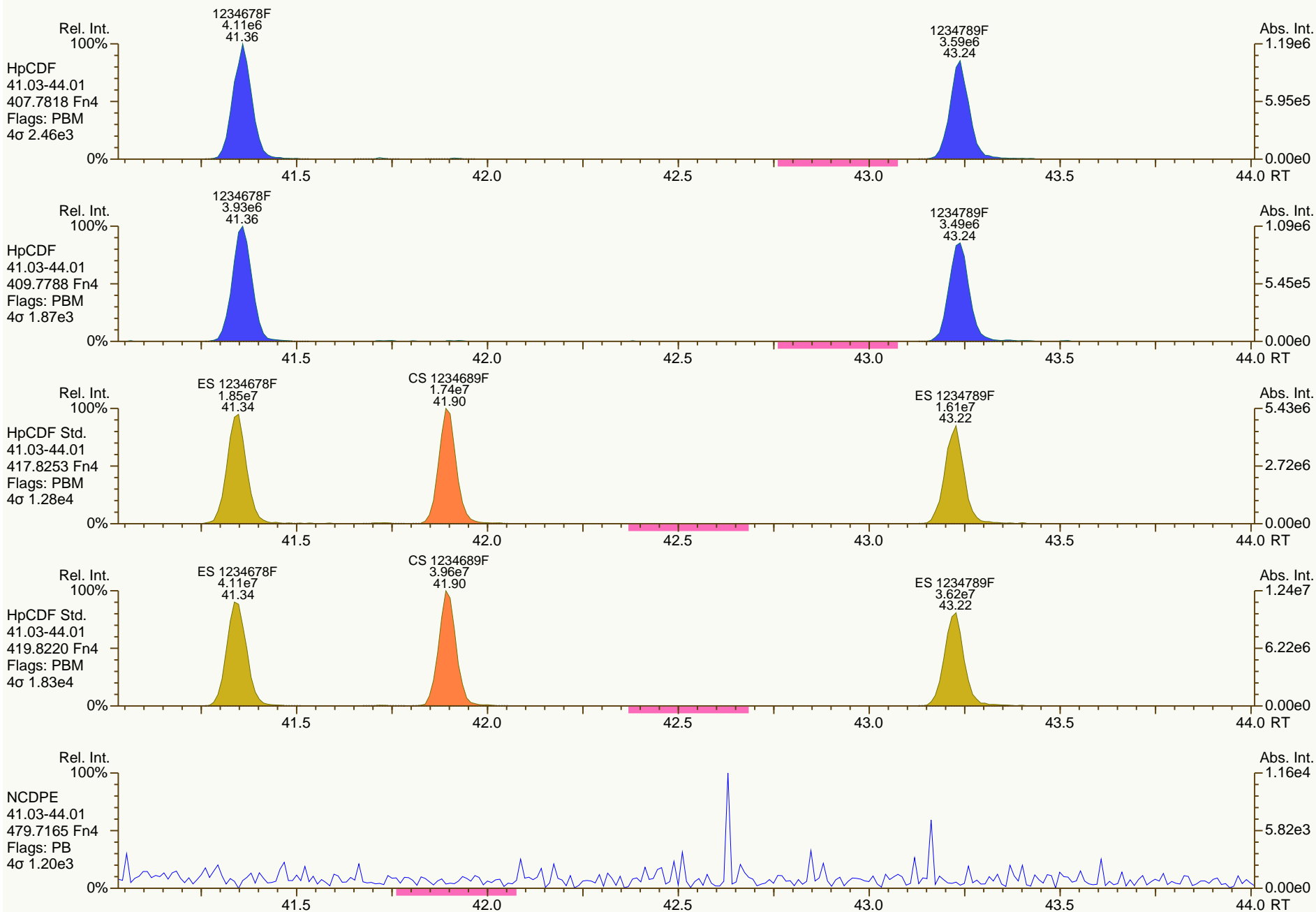
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SGS-AP ID: CS2
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
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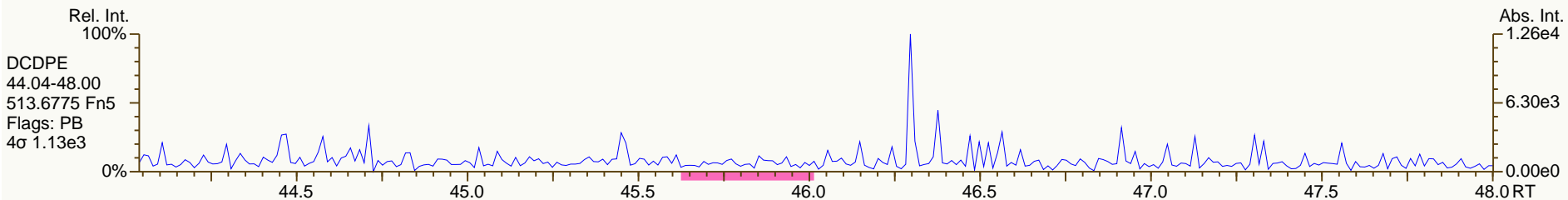
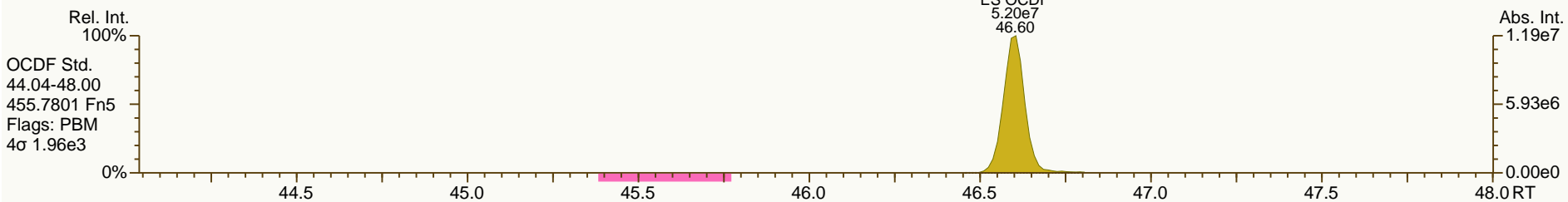
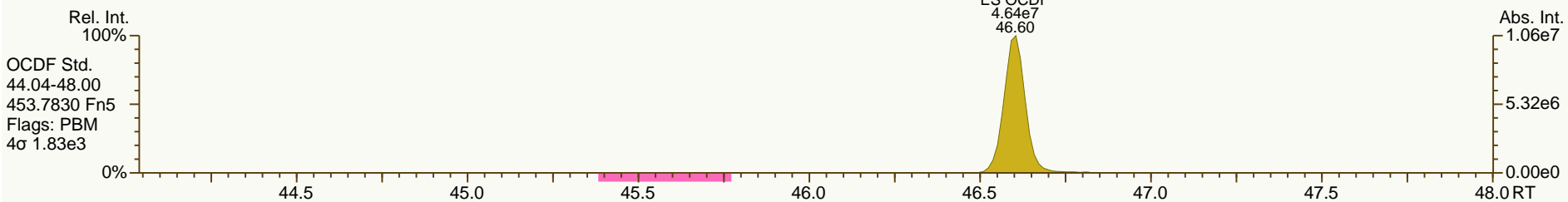
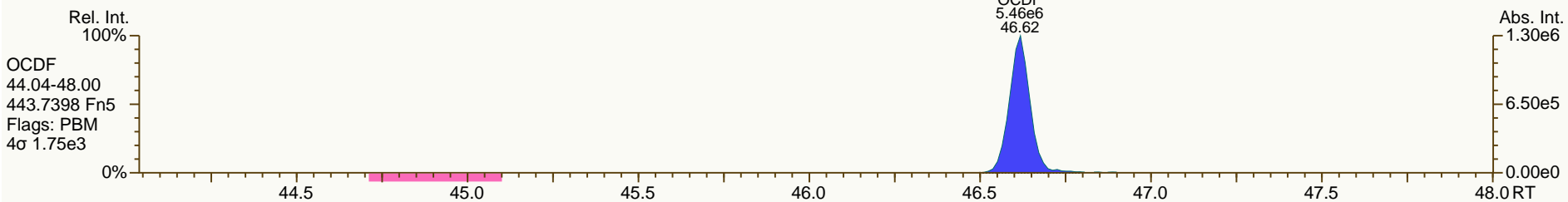
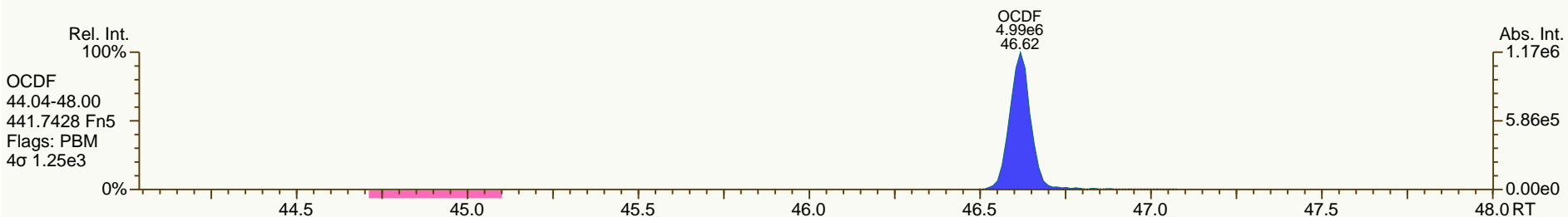
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SGS-AP ID: CS2
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 18

Acq: 18-SEP-2013 13:24:29
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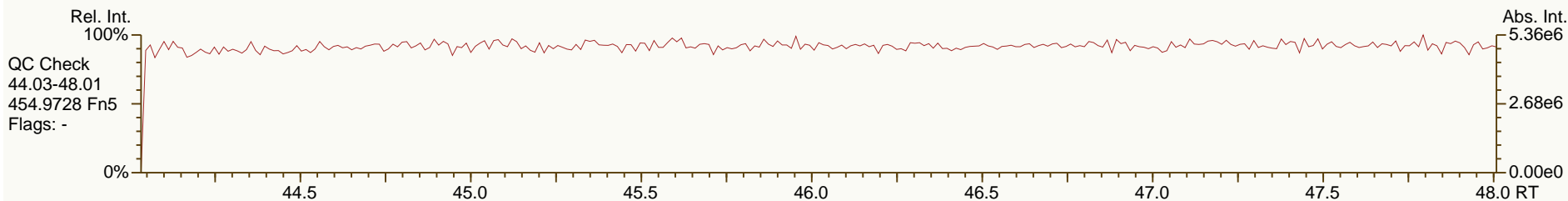
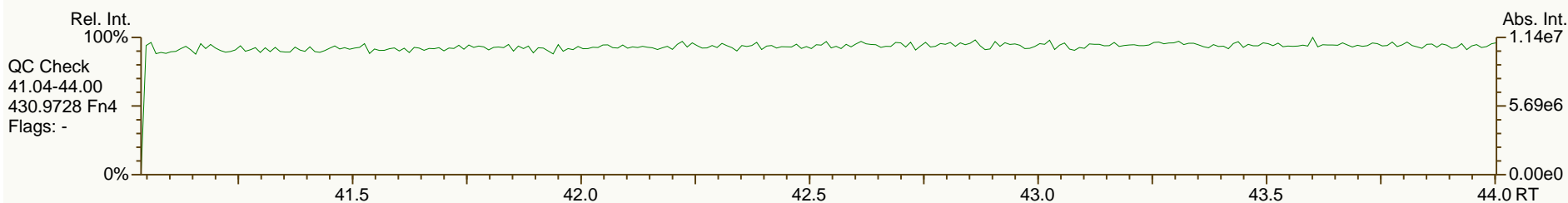
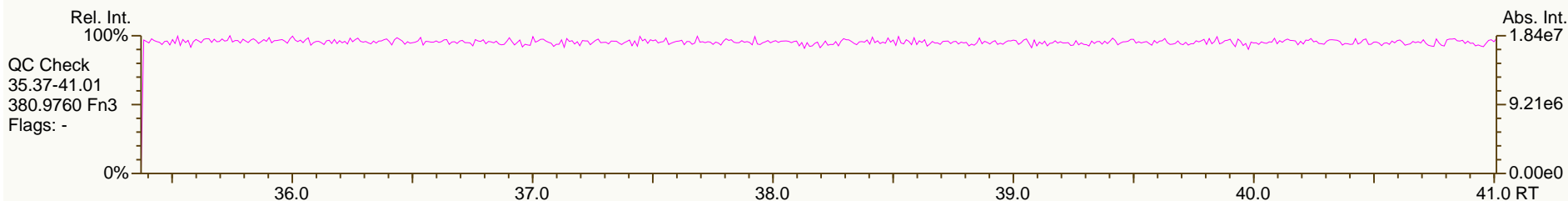
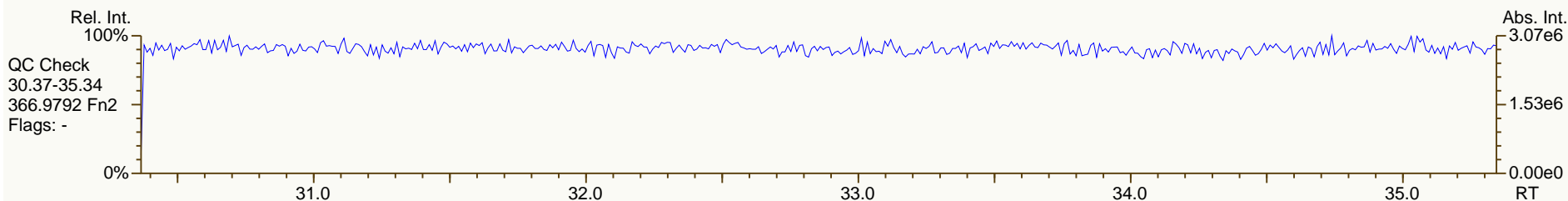
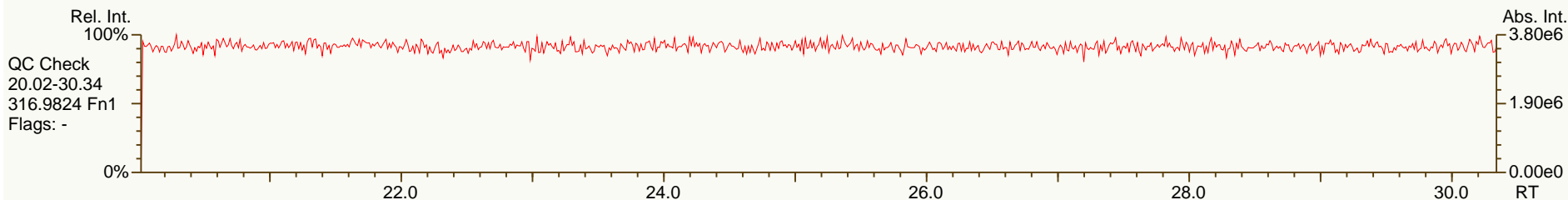


Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 14:17 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS3		UTP: 18-Sep-2013 15:16 MDC			Checkcode: 994-273-MHC		
Sample ID: 11012012A		Report: 19 Sep 2013 09:11 MC			Datafile: 130918P1-05		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.57	8.54E+06	0.81	Y	1.18	1.22	3%
12378-PeCDD	33.84	3.24E+07	1.61	Y	1.07	1.07	0%
123478-HxCDD	38.49	2.84E+07	1.28	Y	1.19	1.20	1%
123678-HxCDD	38.62	2.79E+07	1.27	Y	1.19	1.17	-2%
123789-HxCDD	38.96	2.93E+07	1.28	Y	1.12	1.11	0%
1234678-HpCDD	42.63	2.54E+07	1.06	Y	1.08	1.10	2%
OCDD	46.37	3.71E+07	0.92	Y	1.14	1.16	1%
2378-TCDF	26.58	1.27E+07	0.80	Y	1.10	1.14	4%
12378-PeCDF	32.11	5.47E+07	1.55	Y	1.17	1.17	1%
23478-PeCDF	33.43	5.43E+07	1.54	Y	1.14	1.11	-3%
123478-HxCDF	37.32	4.83E+07	1.25	Y	1.34	1.34	0%
123678-HxCDF	37.48	4.96E+07	1.26	Y	1.23	1.23	0%
234678-HxCDF	38.27	4.84E+07	1.27	Y	1.26	1.28	1%
123789-HxCDF	39.37	3.99E+07	1.29	Y	1.23	1.26	2%
1234678-HpCDF	41.36	3.90E+07	1.04	Y	1.42	1.42	0%
1234789-HpCDF	43.24	3.39E+07	1.03	Y	1.39	1.42	2%
OCDF	46.62	5.10E+07	0.92	Y	1.11	1.12	1%
ES 2378-TCDD	27.54	7.01E+07	0.79	Y	1.02	0.99	-3%
ES 12378-PeCDD	33.82	6.05E+07	1.59	Y	0.92	0.85	-7%
ES 123478-HxCDD	38.47	4.72E+07	1.20	Y	1.02	0.99	-3%
ES 123678-HxCDD	38.60	4.76E+07	1.19	Y	1.01	1.00	-1%
ES 123789-HxCDD	38.94	5.27E+07	1.19	Y	1.14	1.11	-3%
ES 1234678-HpCDD	42.62	4.62E+07	1.07	Y	1.02	0.97	-5%
ES OCDD	46.36	6.42E+07	0.91	Y	0.72	0.68	-6%
ES 2378-TCDF	26.56	1.12E+08	0.72	Y	1.01	0.99	-2%
ES 12378-PeCDF	32.09	9.32E+07	1.51	Y	0.89	0.82	-7%
ES 23478-PeCDF	33.41	9.78E+07	1.50	Y	0.91	0.86	-4%
ES 123478-HxCDF	37.30	7.22E+07	0.54	Y	1.53	1.52	-1%
ES 123678-HxCDF	37.46	8.08E+07	0.54	Y	1.73	1.70	-1%
ES 234678-HxCDF	38.25	7.58E+07	0.54	Y	1.61	1.60	-1%
ES 123789-HxCDF	39.36	6.33E+07	0.54	Y	1.39	1.33	-4%
ES 1234678-HpCDF	41.34	5.49E+07	0.43	Y	1.20	1.16	-4%
ES 1234789-HpCDF	43.22	4.78E+07	0.45	Y	1.07	1.01	-6%
ES OCDF	46.60	9.12E+07	0.92	Y	1.04	0.96	-8%

SGS-AP ID: CS3
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

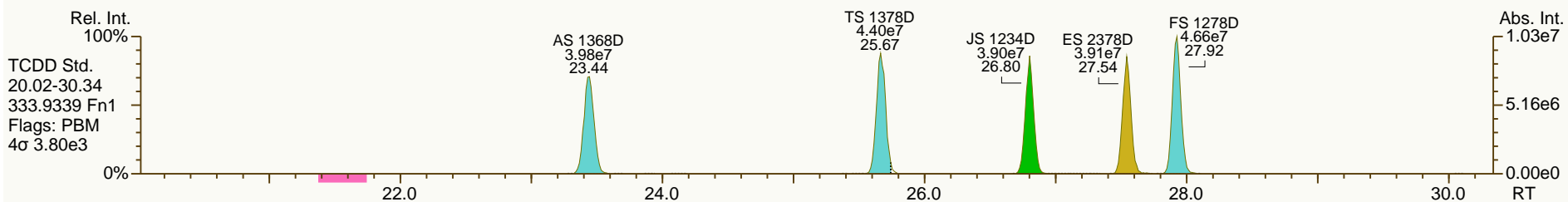
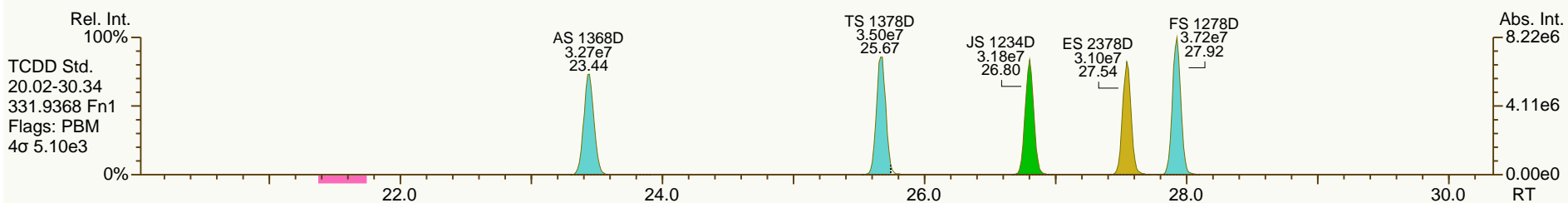
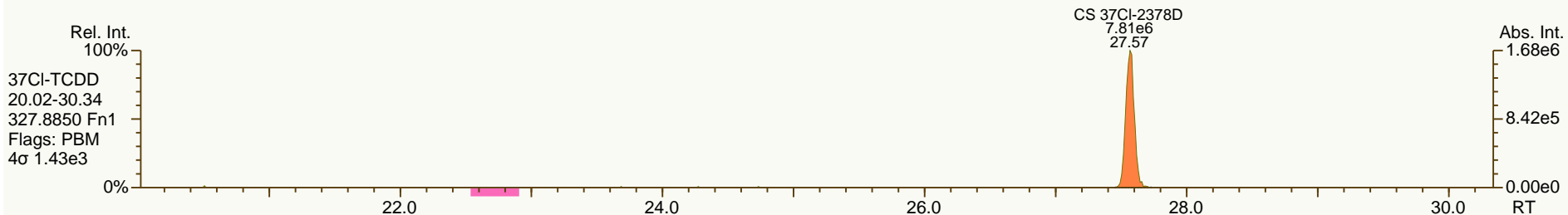
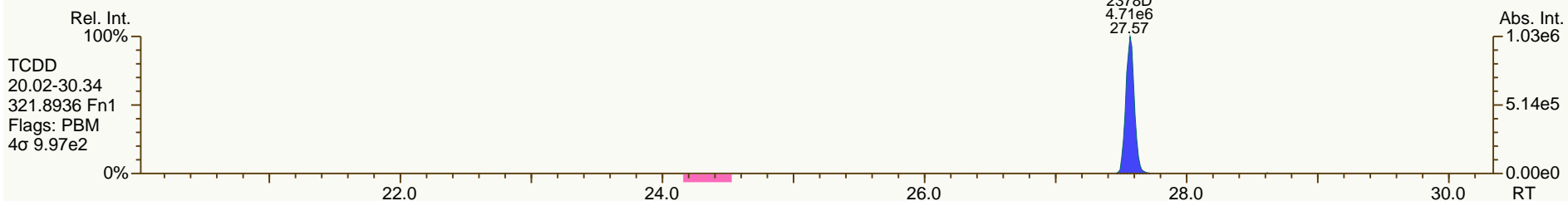
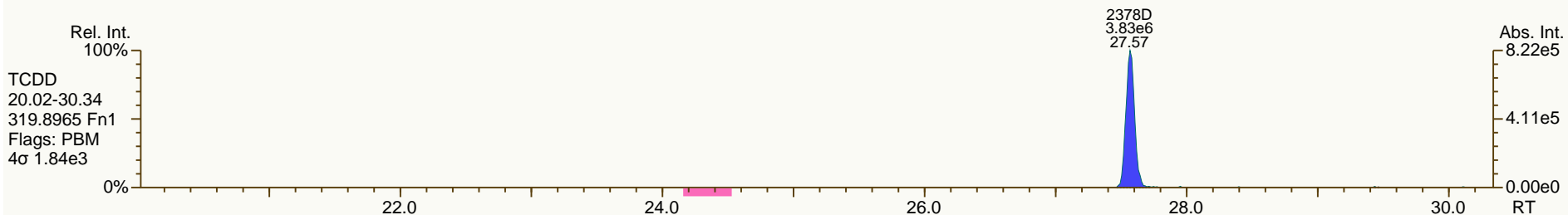
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SGS-AP ID: CS3
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Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

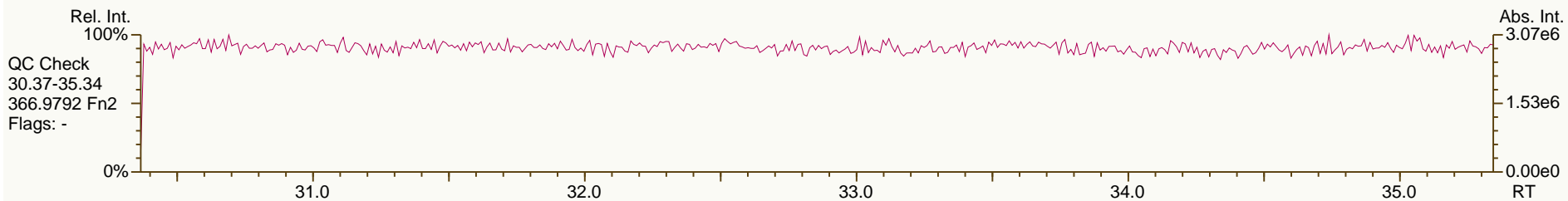
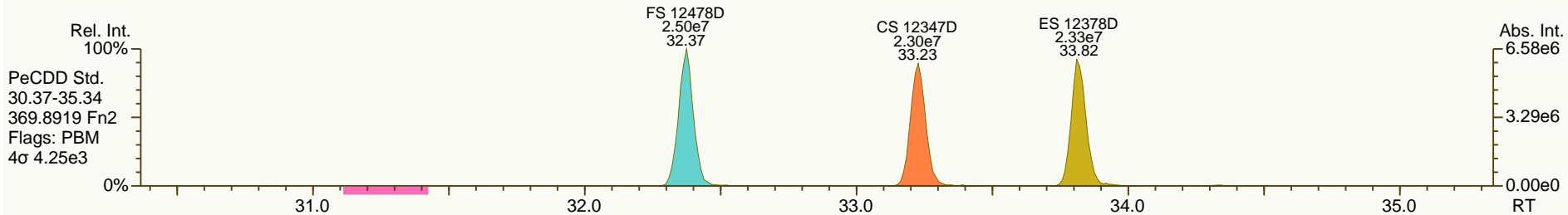
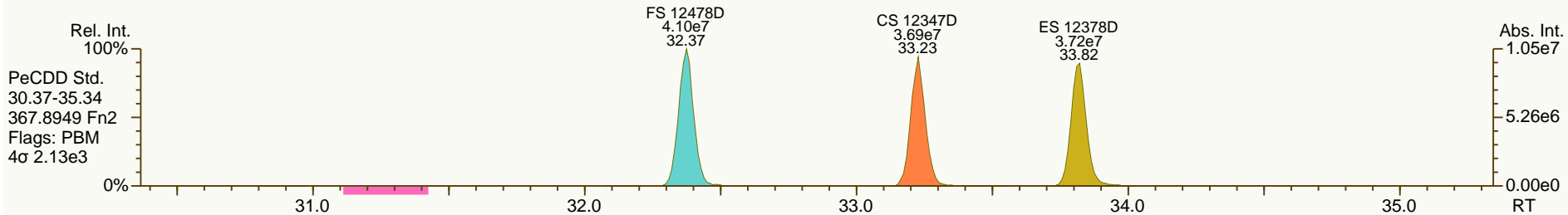
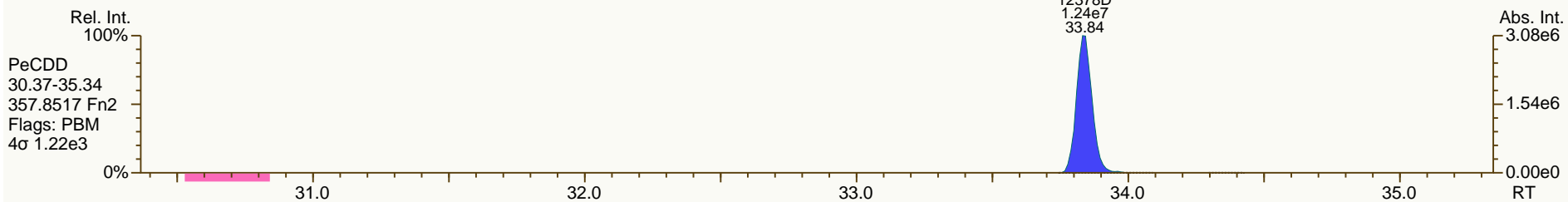
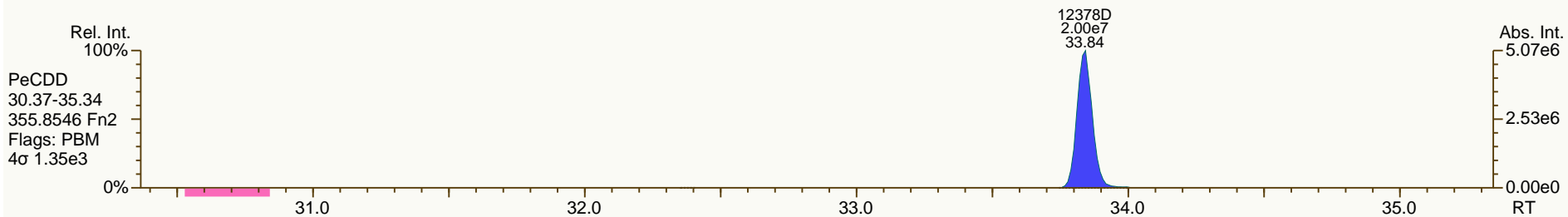
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SGS-AP ID: CS3
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

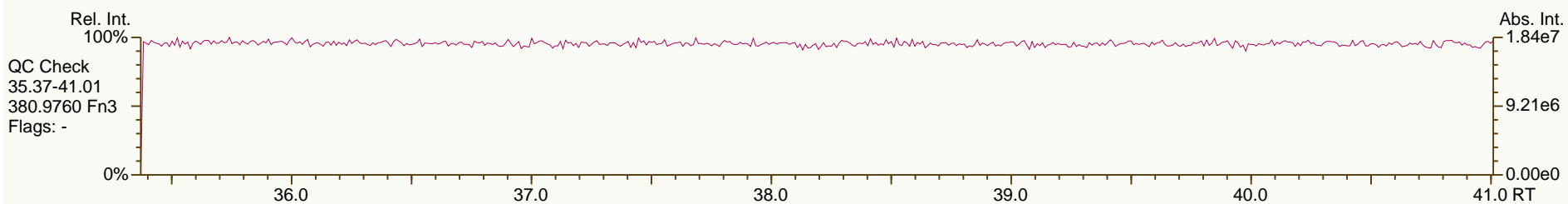
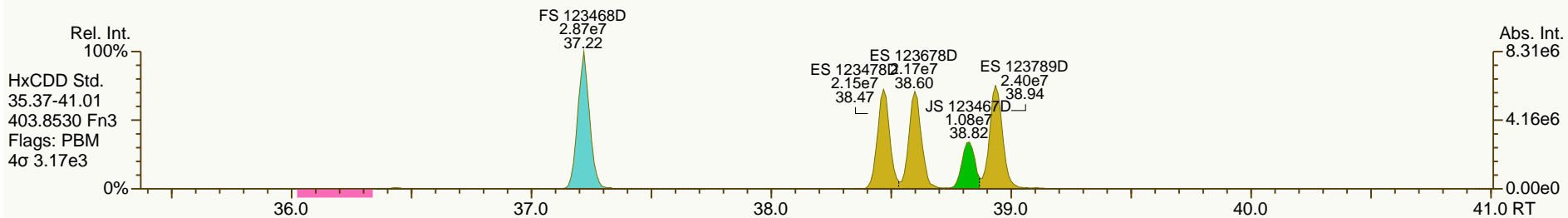
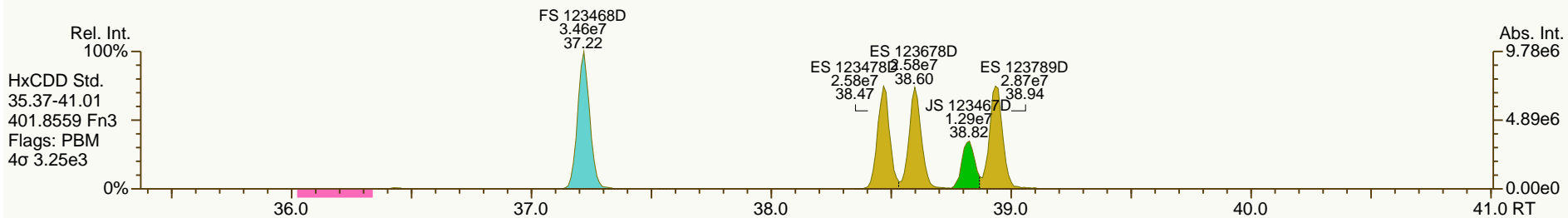
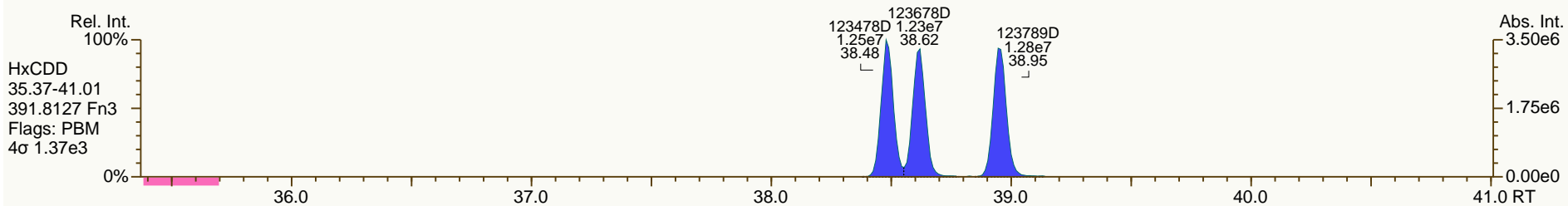
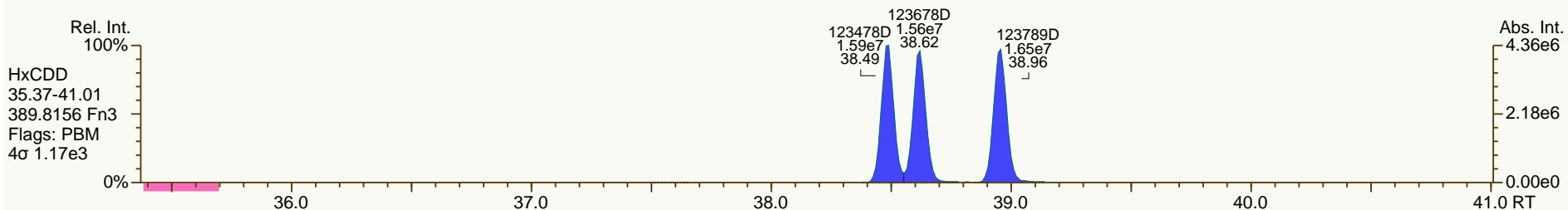
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SGS-AP ID: CS3
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

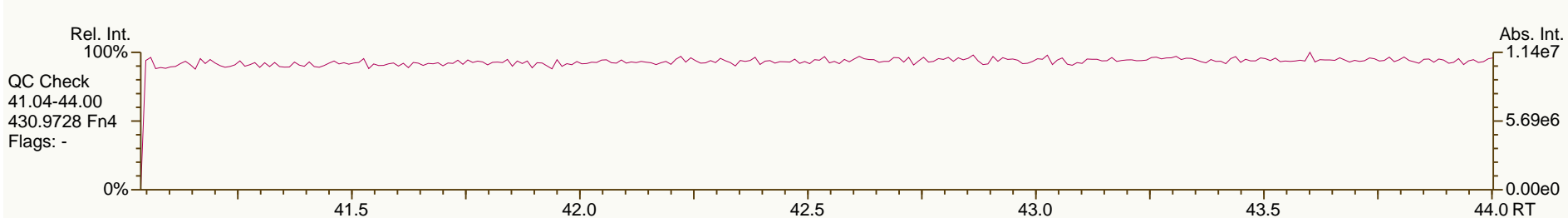
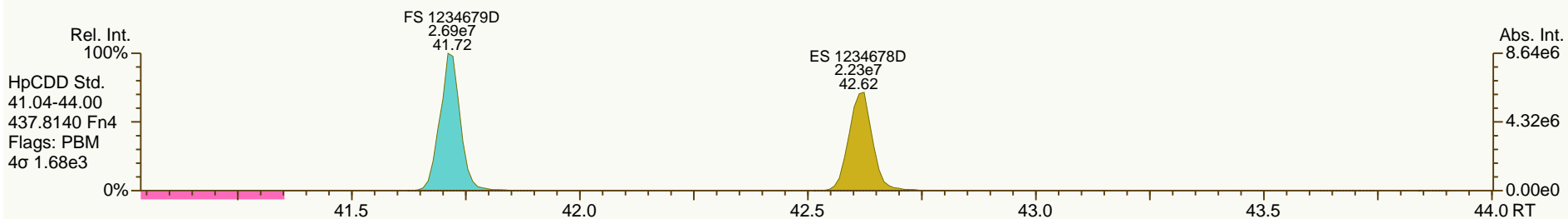
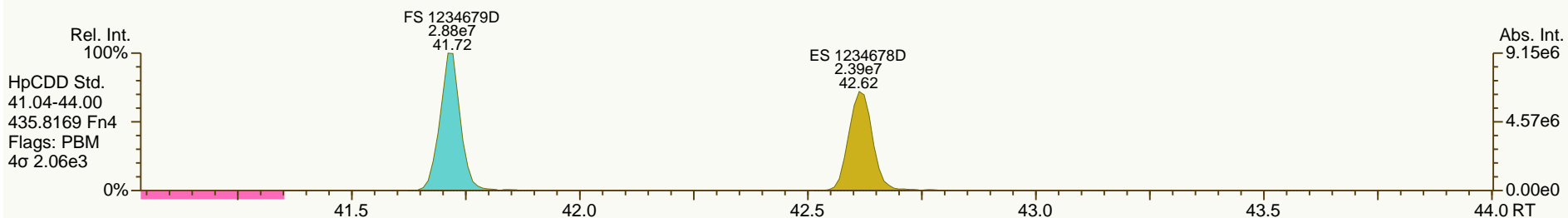
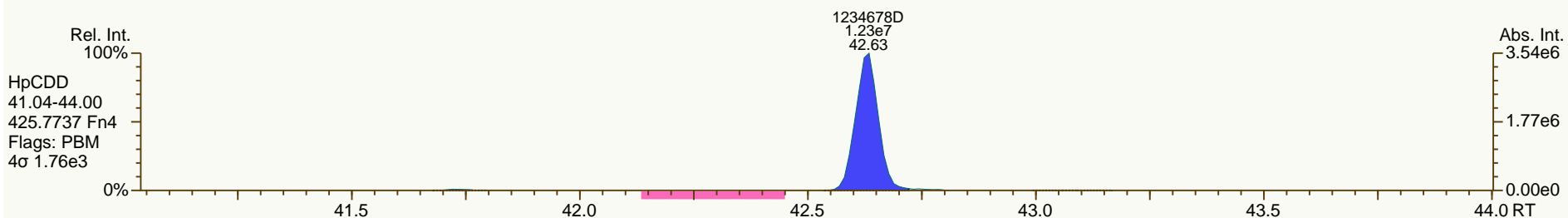
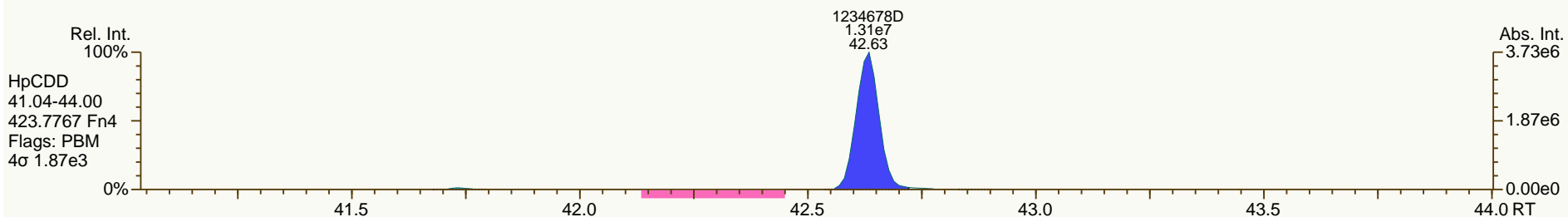
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SGS-AP ID: CS3
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

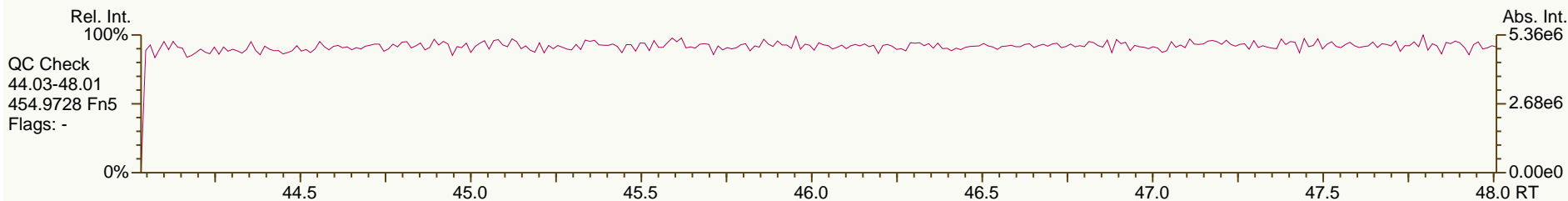
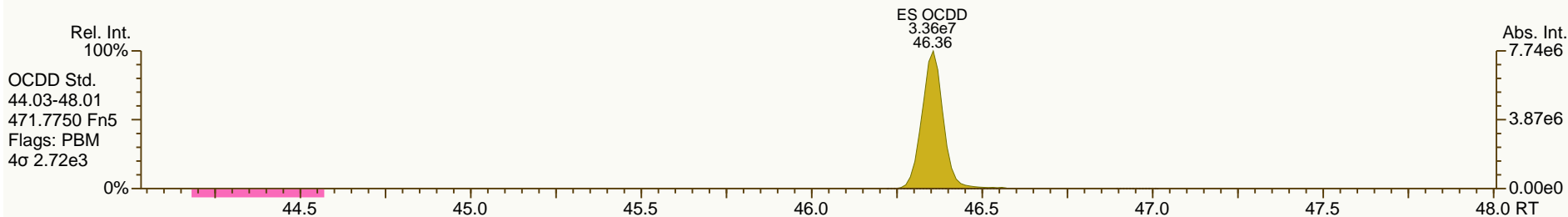
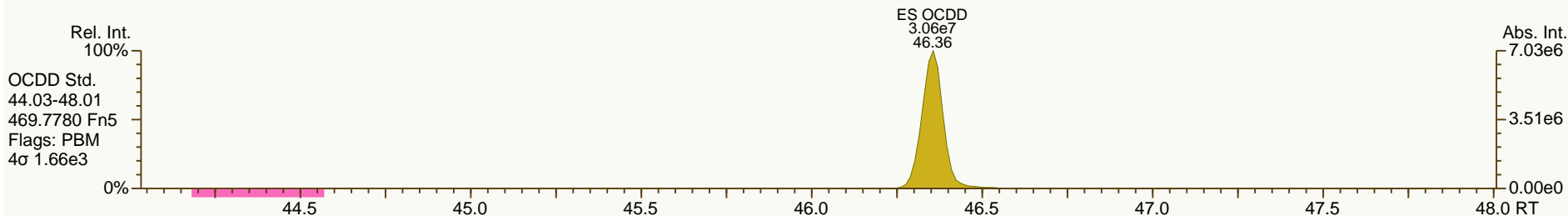
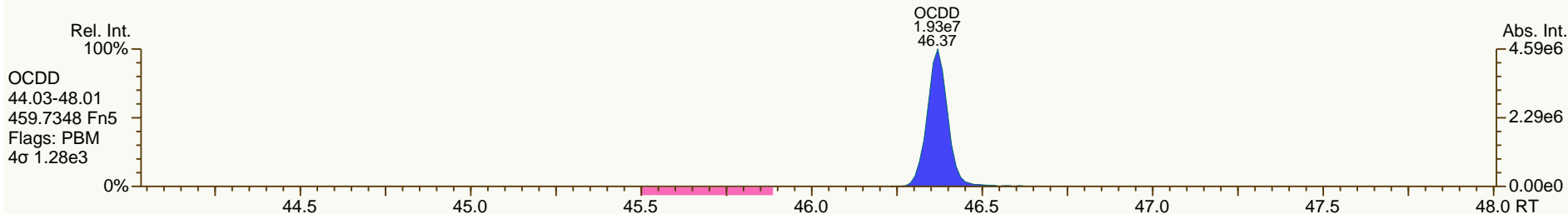
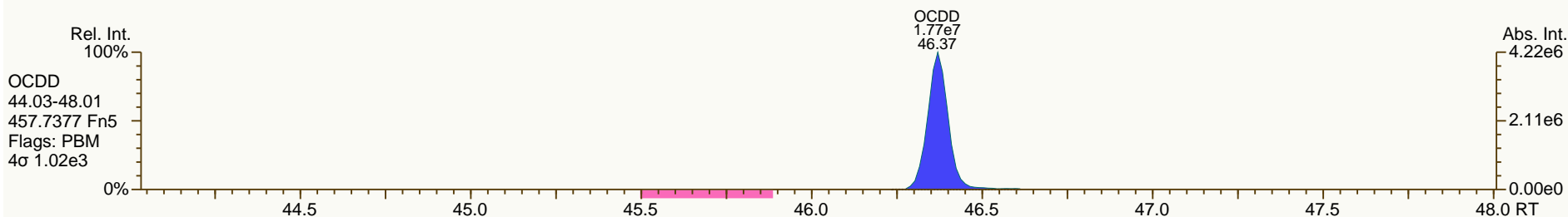
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SGS-AP ID: CS3
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

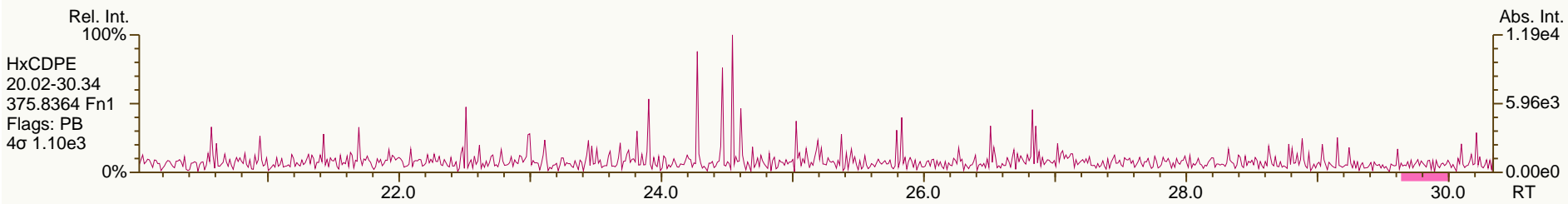
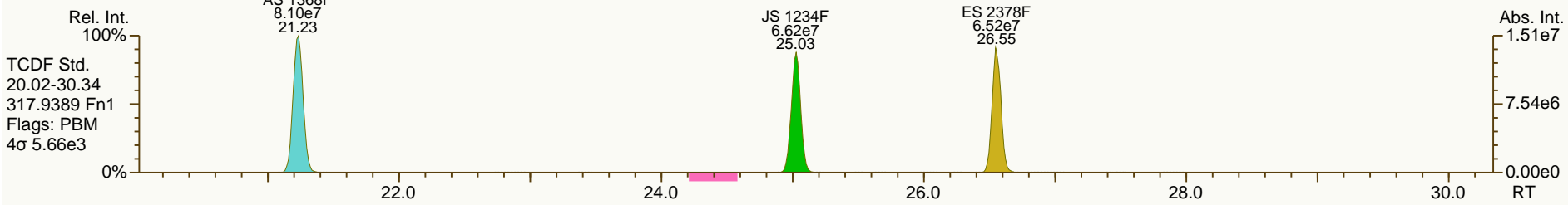
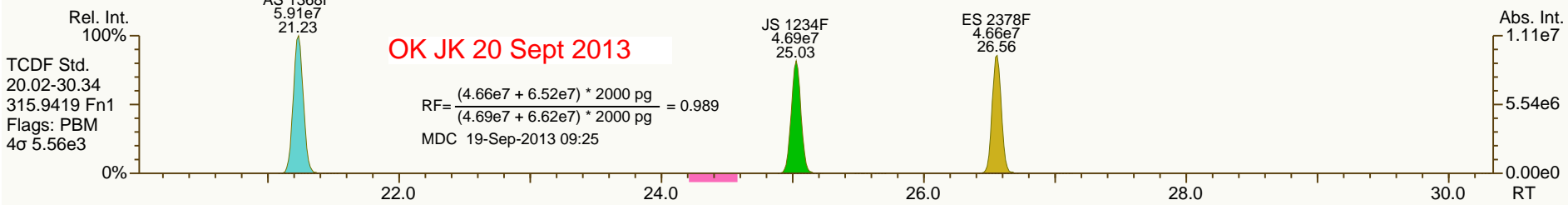
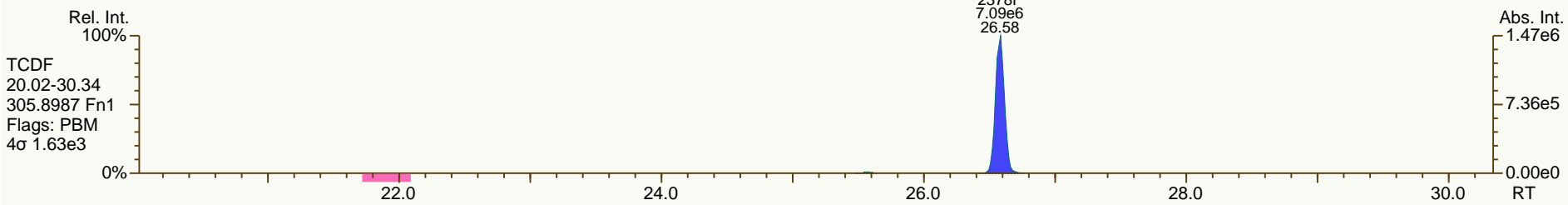
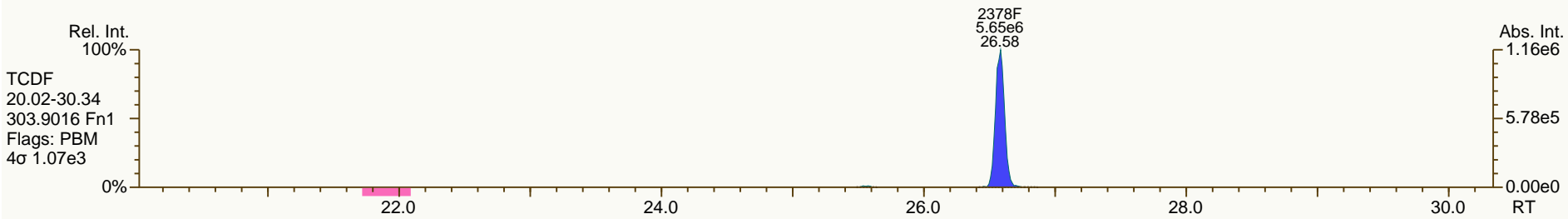
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SGS-AP ID: CS3
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
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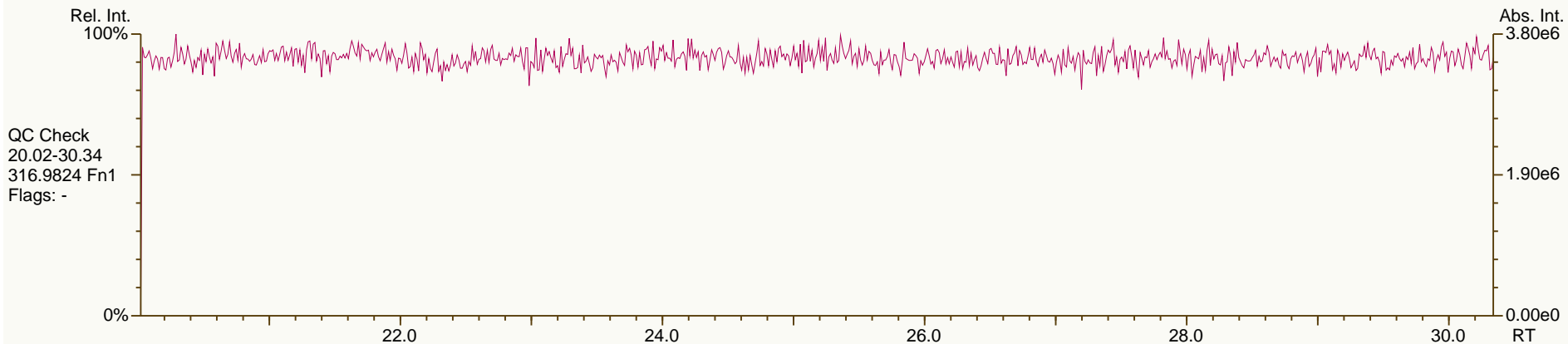
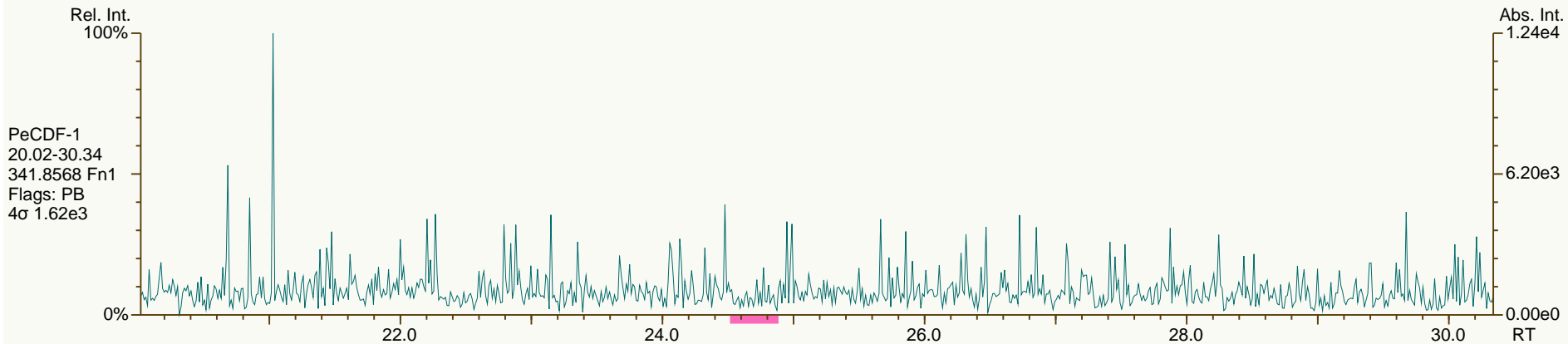
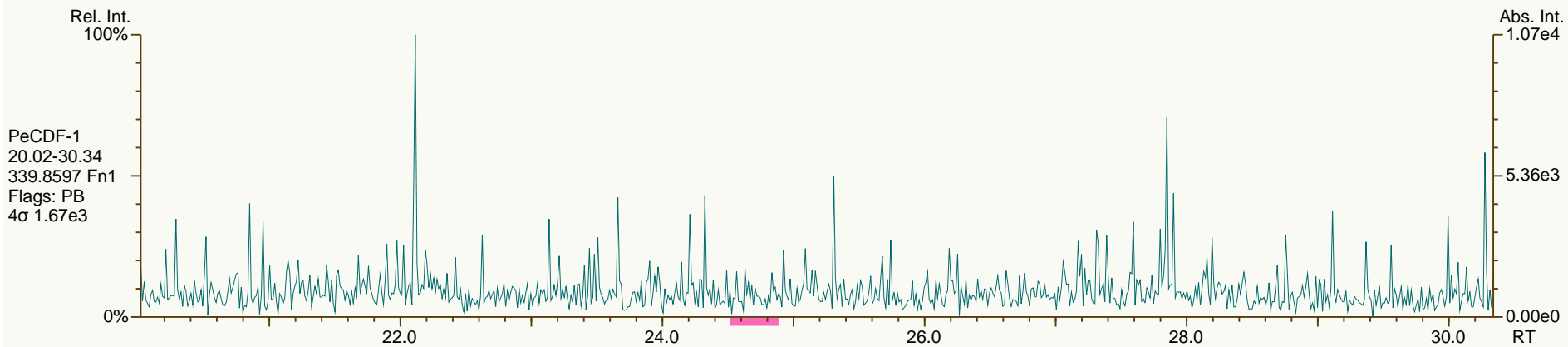
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SGS-AP ID: CS3
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Sample ID: 11012012A
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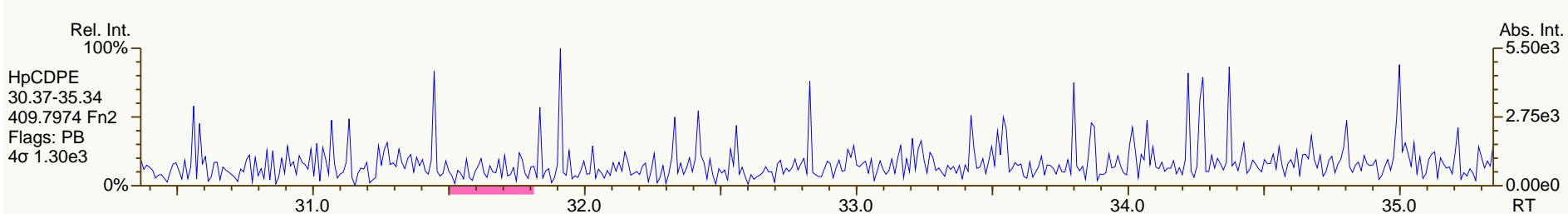
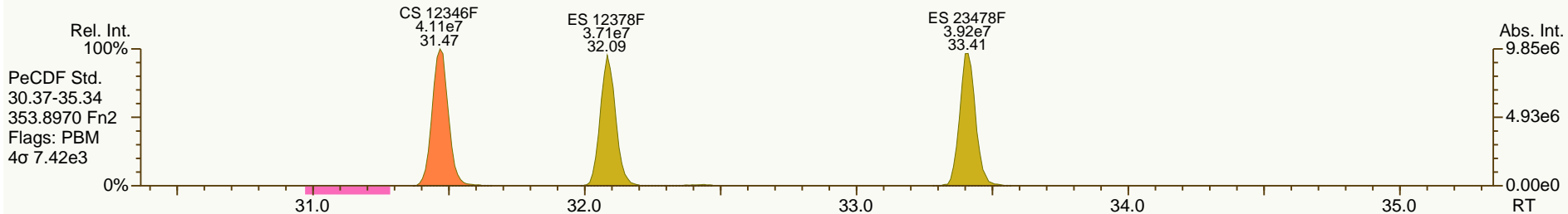
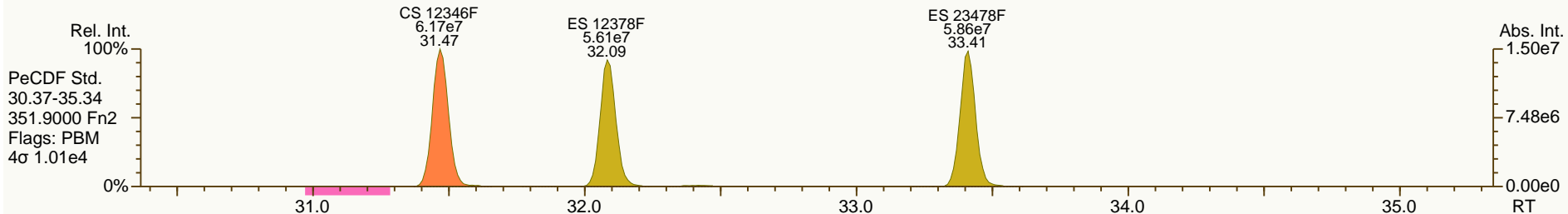
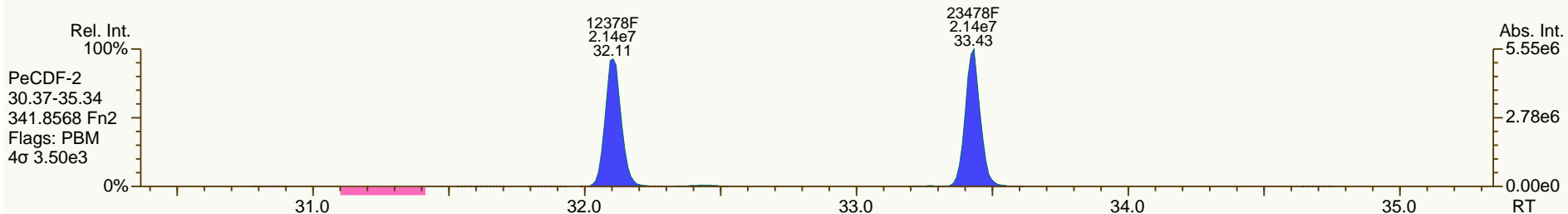
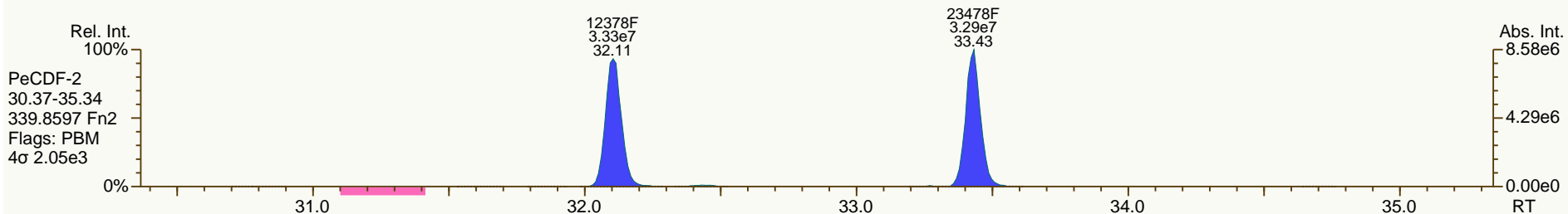
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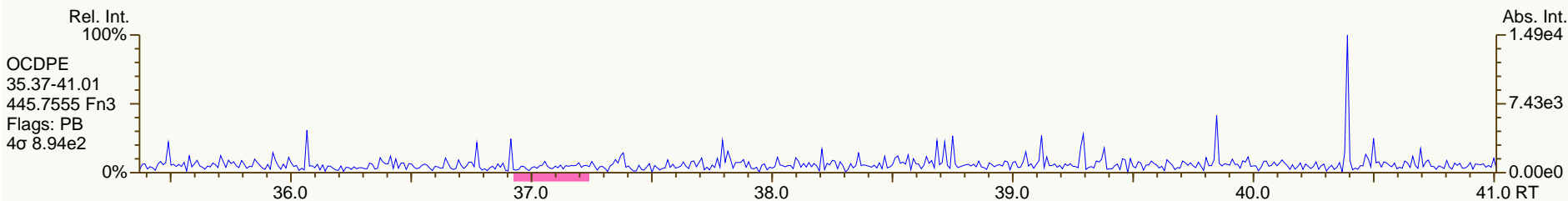
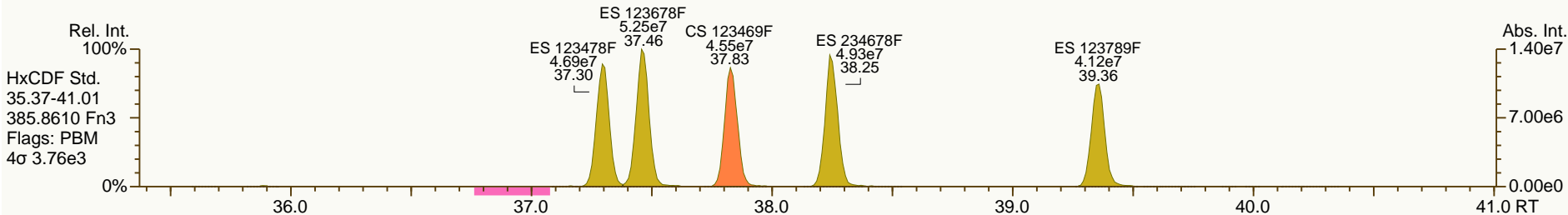
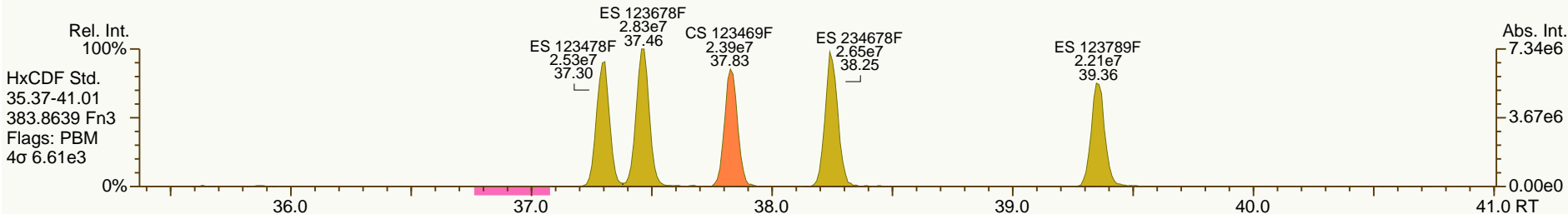
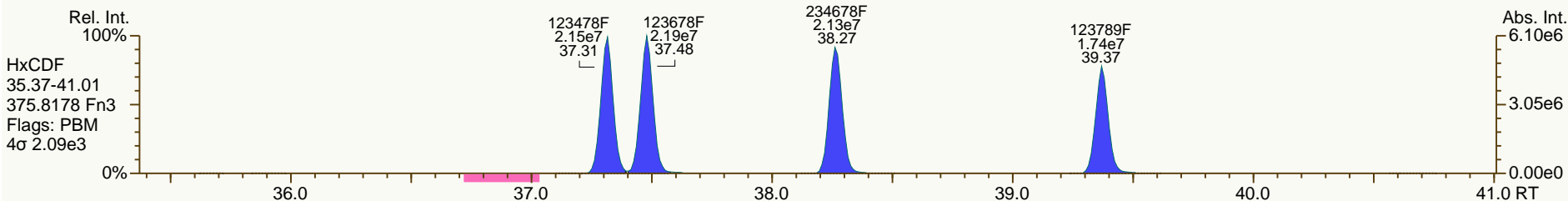
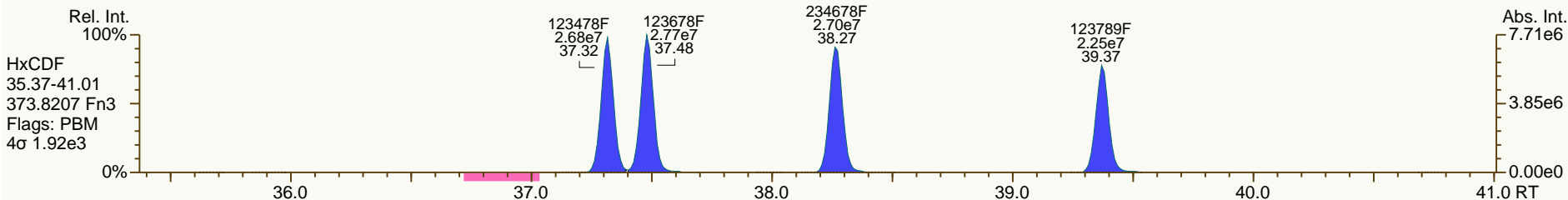
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SGS-AP ID: CS3
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

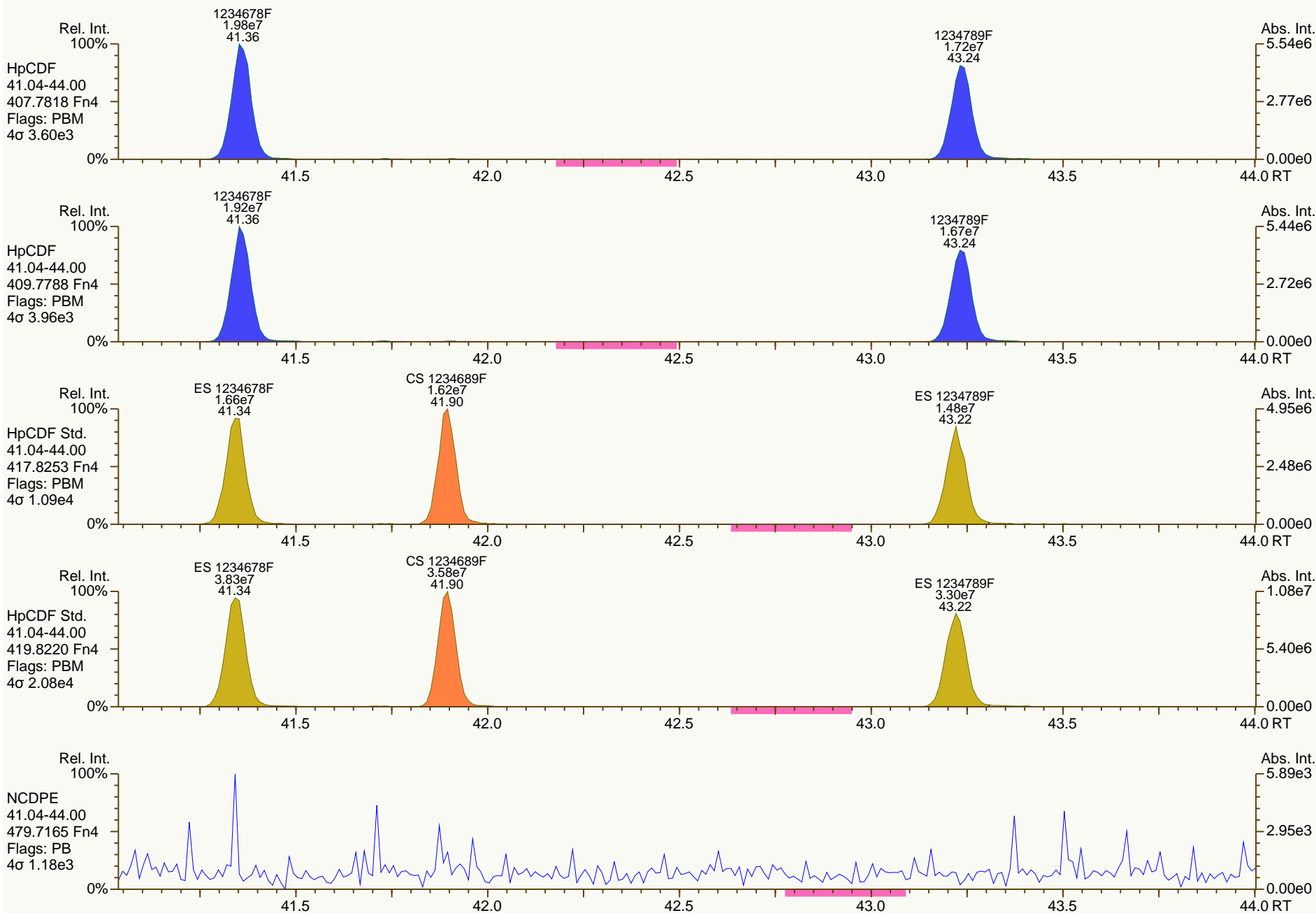
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SGS-AP ID: CS3
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

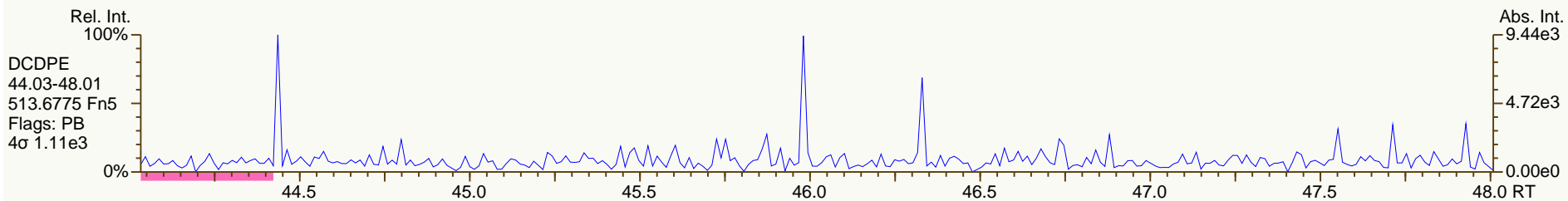
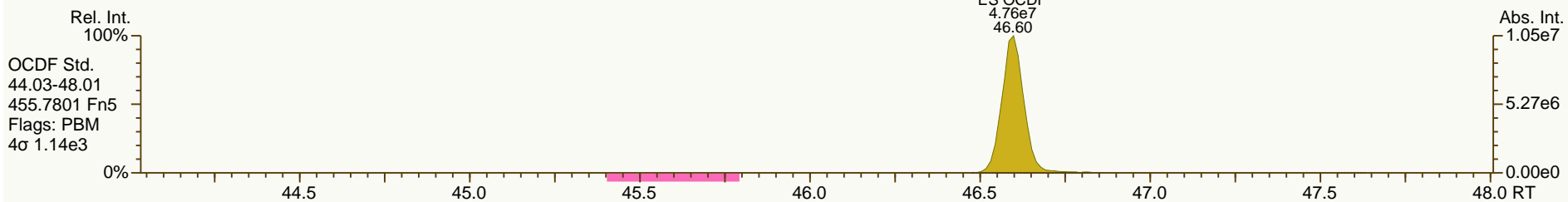
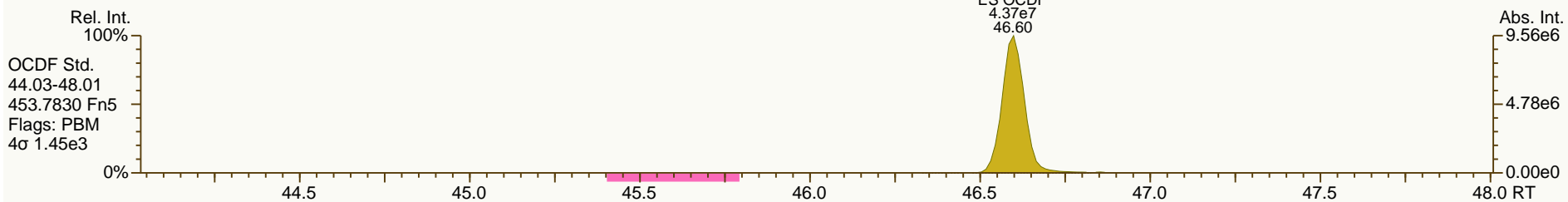
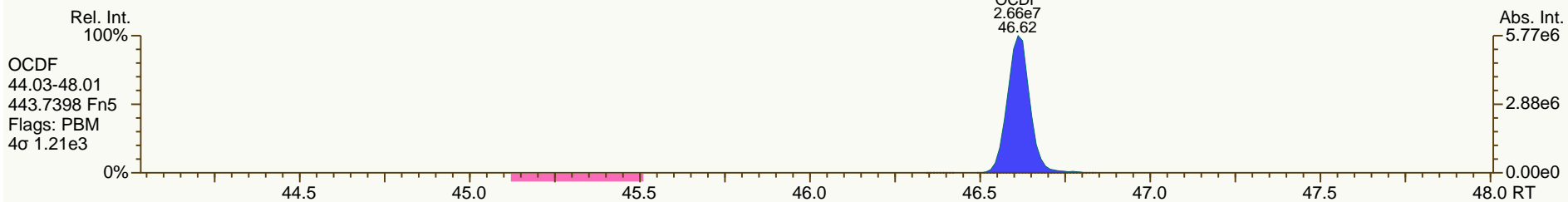
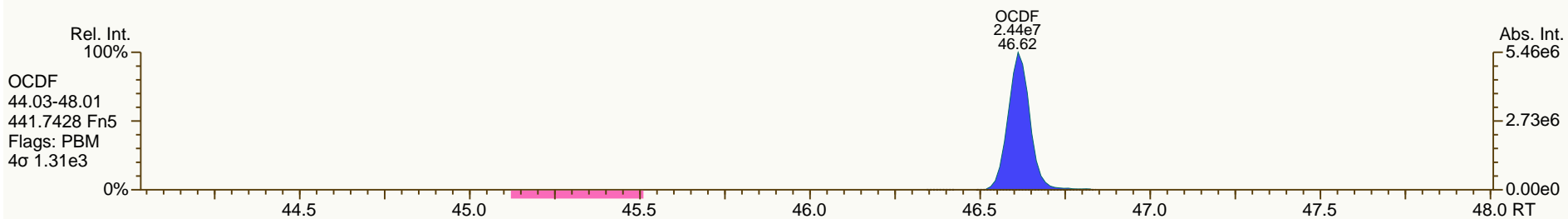
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SGS-AP ID: CS3
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 19

Acq: 18-SEP-2013 14:17:08
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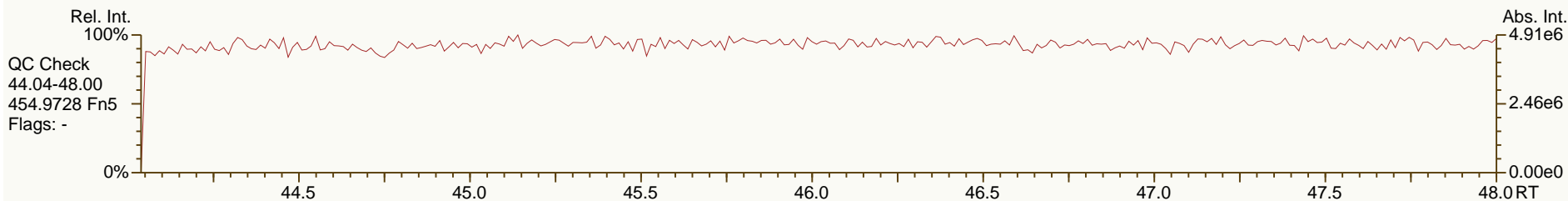
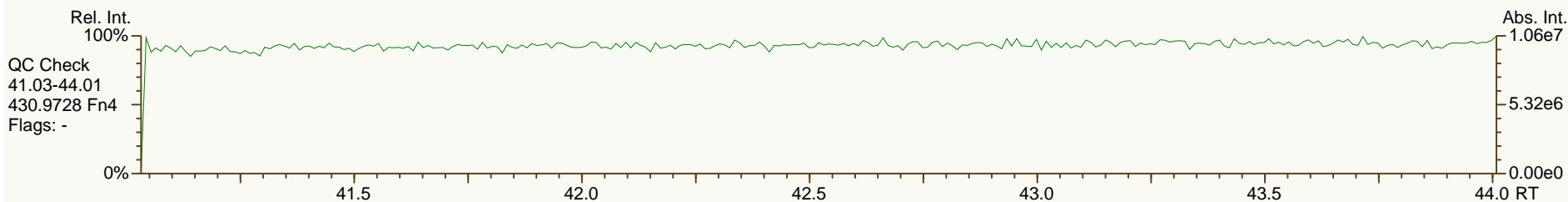
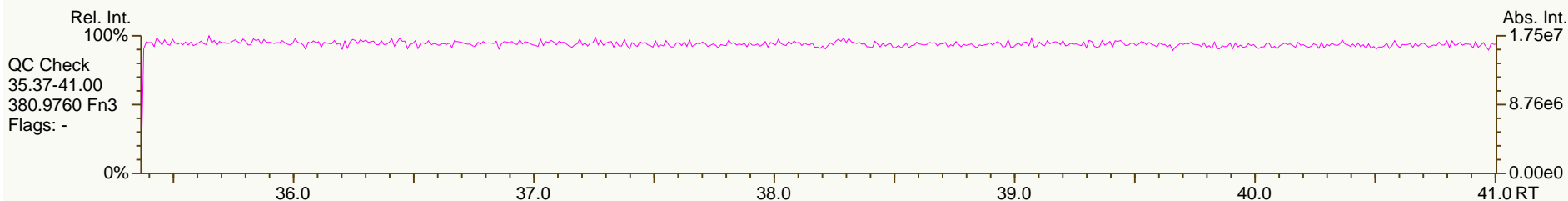
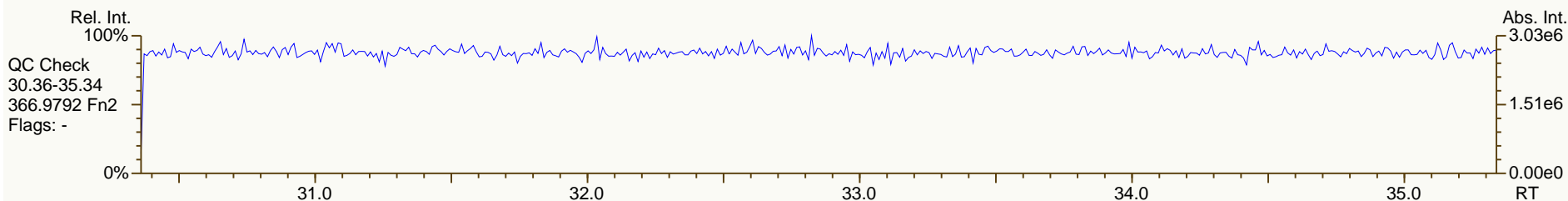
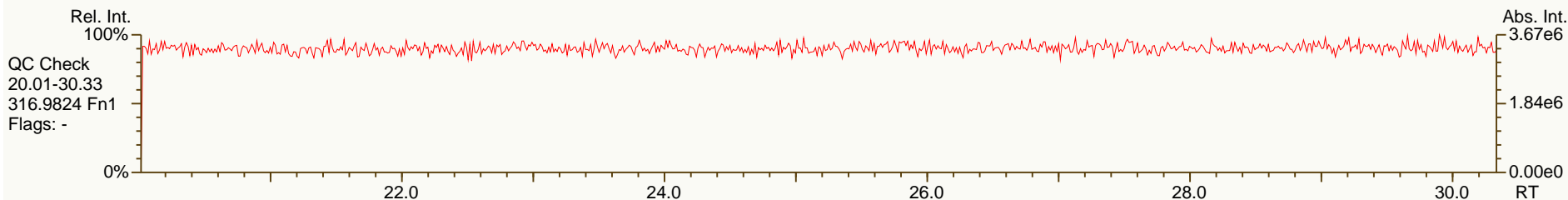
Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 15:09 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS4		UTP: 18-Sep-2013 16:08 MDC			Checkcode: 777-980-TLN		
Sample ID: 11012012A		Report: 19 Sep 2013 09:12 MC			Datafile: 130918P1-06		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.57	3.97E+07	0.81	Y	1.18	1.20	2%
12378-PeCDD	33.84	1.61E+08	1.59	Y	1.07	1.10	3%
123478-HxCDD	38.48	1.46E+08	1.27	Y	1.19	1.23	3%
123678-HxCDD	38.61	1.42E+08	1.27	Y	1.19	1.21	2%
123789-HxCDD	38.95	1.52E+08	1.26	Y	1.12	1.13	1%
1234678-HpCDD	42.63	1.35E+08	1.05	Y	1.08	1.11	2%
OCDD	46.37	2.03E+08	0.91	Y	1.14	1.18	3%
2378-TCDF	26.58	5.95E+07	0.78	Y	1.10	1.14	4%
12378-PeCDF	32.10	2.73E+08	1.55	Y	1.17	1.18	1%
23478-PeCDF	33.43	2.72E+08	1.56	Y	1.14	1.14	0%
123478-HxCDF	37.31	2.44E+08	1.27	Y	1.34	1.36	1%
123678-HxCDF	37.47	2.53E+08	1.27	Y	1.23	1.26	3%
234678-HxCDF	38.26	2.45E+08	1.26	Y	1.26	1.30	3%
123789-HxCDF	39.37	2.11E+08	1.27	Y	1.23	1.27	3%
1234678-HpCDF	41.35	2.09E+08	1.04	Y	1.42	1.47	3%
1234789-HpCDF	43.23	1.84E+08	1.05	Y	1.39	1.41	2%
OCDF	46.61	2.90E+08	0.92	Y	1.11	1.14	3%
ES 2378-TCDD	27.54	8.24E+07	0.80	Y	1.02	1.06	3%
ES 12378-PeCDD	33.81	7.32E+07	1.62	Y	0.92	0.94	2%
ES 123478-HxCDD	38.46	5.94E+07	1.16	Y	1.02	1.00	-3%
ES 123678-HxCDD	38.60	5.87E+07	1.19	Y	1.01	0.98	-2%
ES 123789-HxCDD	38.93	6.71E+07	1.19	Y	1.14	1.13	-1%
ES 1234678-HpCDD	42.61	6.07E+07	1.07	Y	1.02	1.02	0%
ES OCDD	46.35	8.63E+07	0.88	Y	0.72	0.72	1%
ES 2378-TCDF	26.55	1.30E+08	0.71	Y	1.01	1.02	1%
ES 12378-PeCDF	32.08	1.16E+08	1.49	Y	0.89	0.91	3%
ES 23478-PeCDF	33.41	1.19E+08	1.49	Y	0.91	0.94	3%
ES 123478-HxCDF	37.29	8.98E+07	0.54	Y	1.53	1.51	-1%
ES 123678-HxCDF	37.46	1.00E+08	0.54	Y	1.73	1.68	-3%
ES 234678-HxCDF	38.24	9.44E+07	0.54	Y	1.61	1.58	-2%
ES 123789-HxCDF	39.35	8.30E+07	0.54	Y	1.39	1.39	0%
ES 1234678-HpCDF	41.34	7.14E+07	0.45	Y	1.20	1.20	0%
ES 1234789-HpCDF	43.22	6.52E+07	0.45	Y	1.07	1.10	2%
ES OCDF	46.60	1.28E+08	0.90	Y	1.04	1.07	3%

Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 15:09 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS4		UTP: 18-Sep-2013 16:08 MDC			Checkcode: 777-980		
Sample ID: 11012012A		Report: 19 Sep 2013 09:12 MC			Datafile: 130918P1-06		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
JS 1234-TCDD	26.80	7.80E+07	0.81	Y	-	-	-
JS 1234-TCDF	25.02	1.27E+08	0.74	Y	-	-	-
JS 123467-HxCDD	38.82	2.98E+07	1.19	Y	-	-	-
CS 37C1-2378-TCDD	27.57	3.72E+07	n/a	-	1.13	1.19	5%
CS 12347-PeCDD	33.22	7.15E+07	1.63	Y	0.88	0.92	5%
CS 12346-PeCDF	31.47	1.19E+08	1.47	Y	0.90	0.93	3%
CS 123469-HxCDF	37.82	8.29E+07	0.54	Y	1.40	1.39	-1%
CS 1234689-HpCDF	41.89	6.66E+07	0.45	Y	1.09	1.12	2%
SS 37C1-2378-TCDD	27.57	3.72E+07	n/a	-	1.11	1.13	1%
SS 12347-PeCDD	33.22	7.15E+07	1.63	Y	0.96	0.98	2%
SS 12346-PeCDF	31.47	1.19E+08	1.47	Y	1.02	1.02	0%
SS 123469-HxCDF	37.82	8.29E+07	0.54	Y	0.81	0.83	2%
SS 1234689-HpCDF	41.89	6.66E+07	0.45	Y	0.91	0.93	2%
AS 1368-TCDD	23.44	7.88E+07	0.80	Y	1.01	1.01	0%
AS 1368-TCDF	21.23	1.55E+08	0.74	Y	1.22	1.22	0%
FS 1278-TCDD	27.92	9.66E+07	0.81	Y	1.18	1.17	0%
FS 12478-PeCDD	32.37	7.66E+07	1.57	Y	1.06	1.05	-1%
FS 123468-HxCDD	37.21	7.48E+07	1.19	Y	1.26	1.26	0%
FS 1234679-HpCDD	41.71	6.88E+07	1.06	Y	1.12	1.13	1%
TS 1378-TCDD	25.67	9.02E+07	0.80	Y	1.11	1.09	-1%
OCDD-a	46.36	1.21E+07	2.67	Y	0.07	0.07	3%
OCDF-a	46.61	1.62E+07	2.68	Y	0.06	0.06	0%

SGS-AP ID: CS4
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

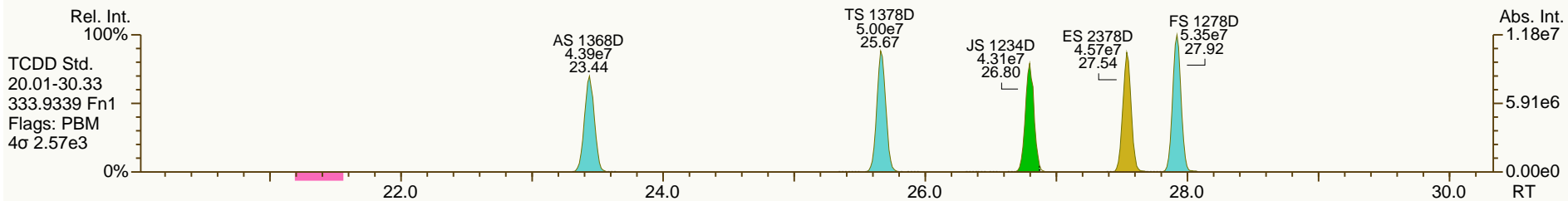
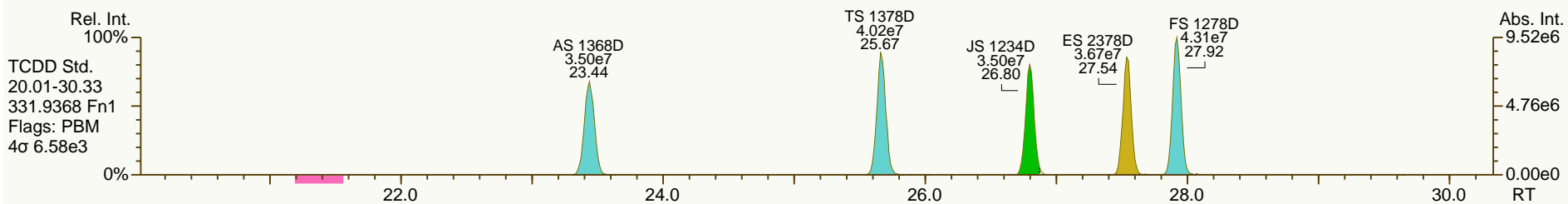
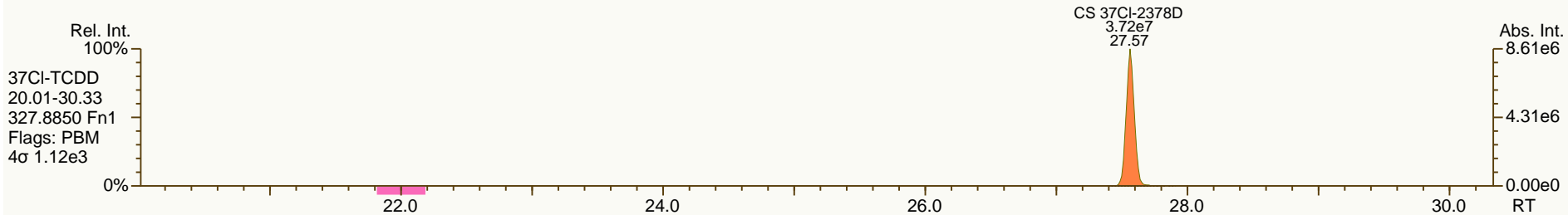
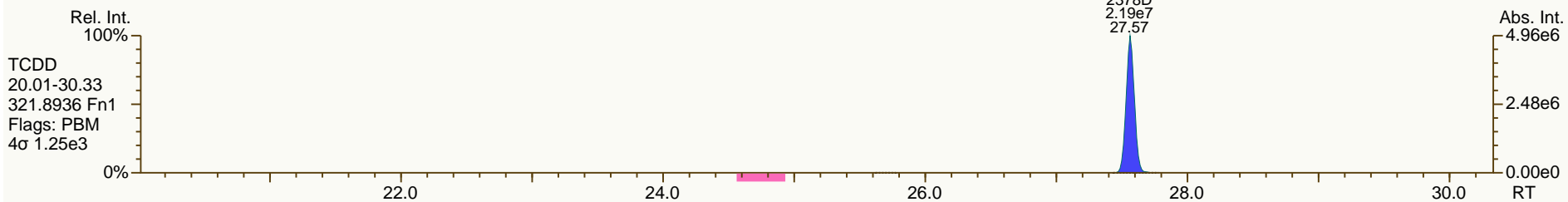
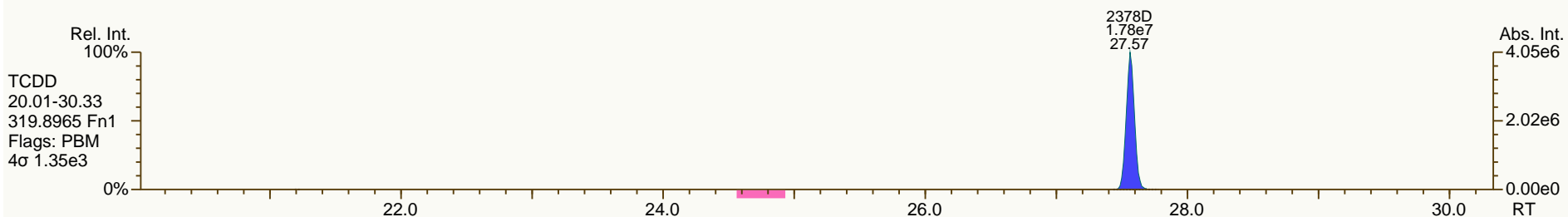
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

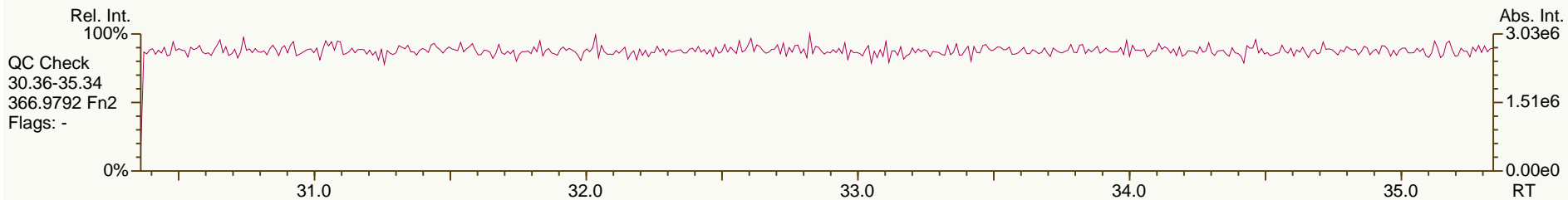
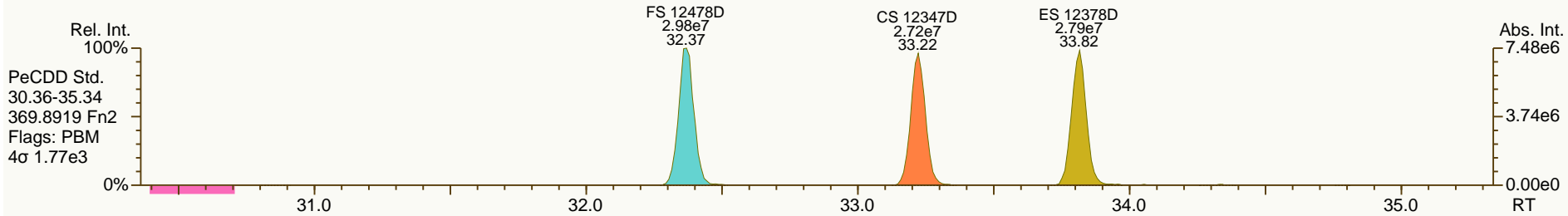
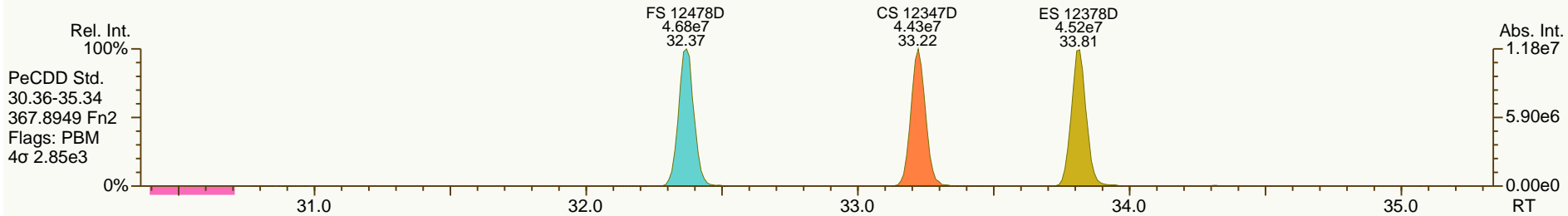
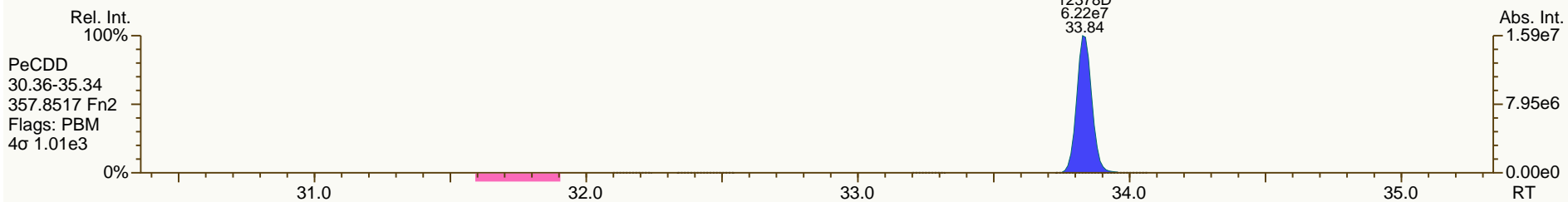
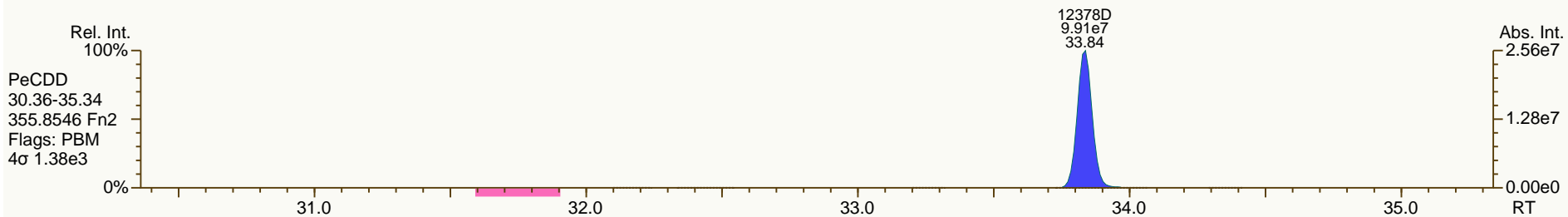
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

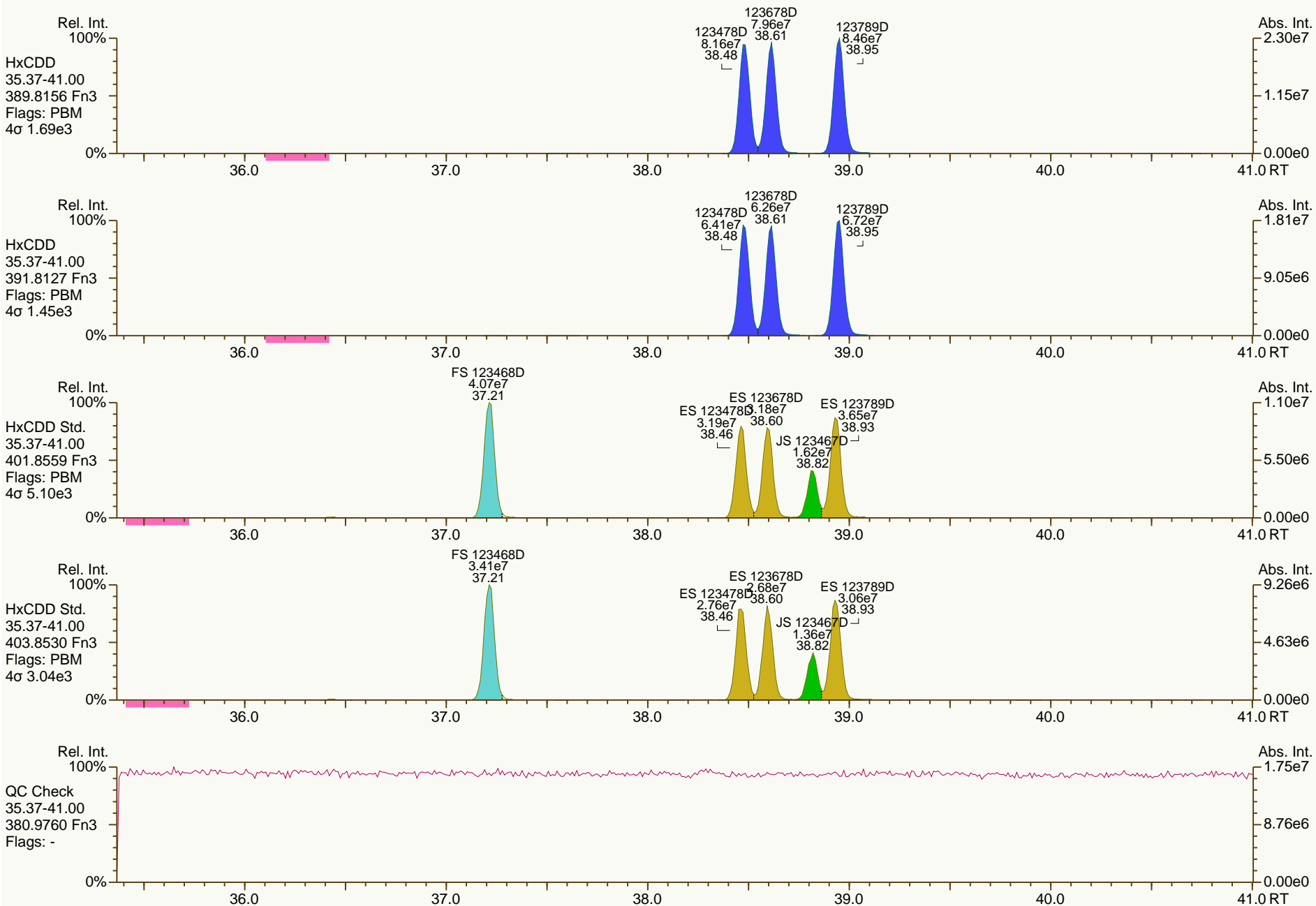
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

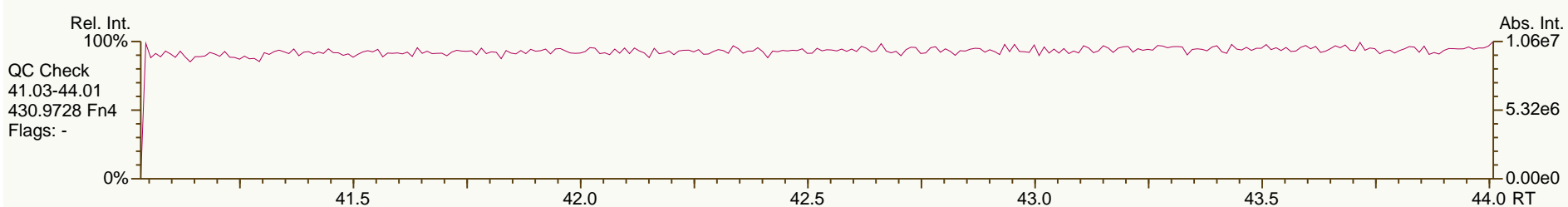
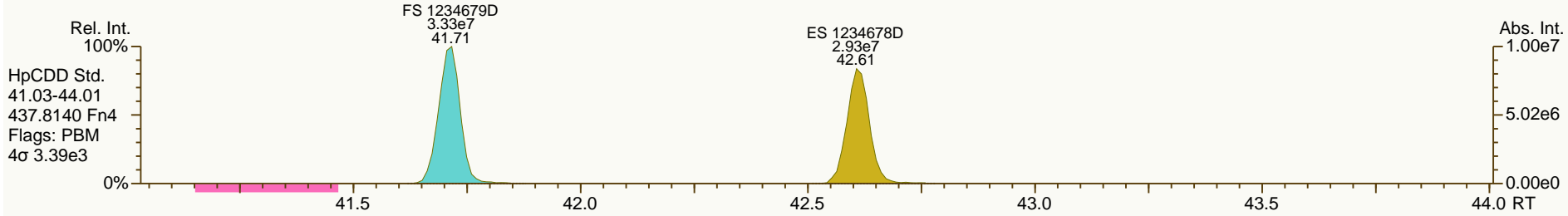
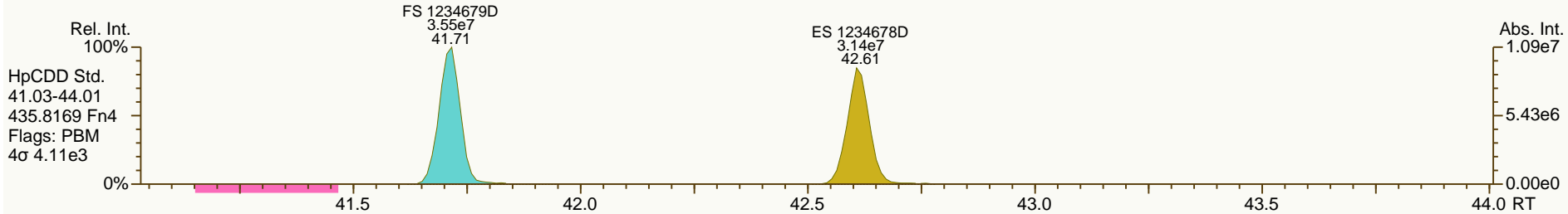
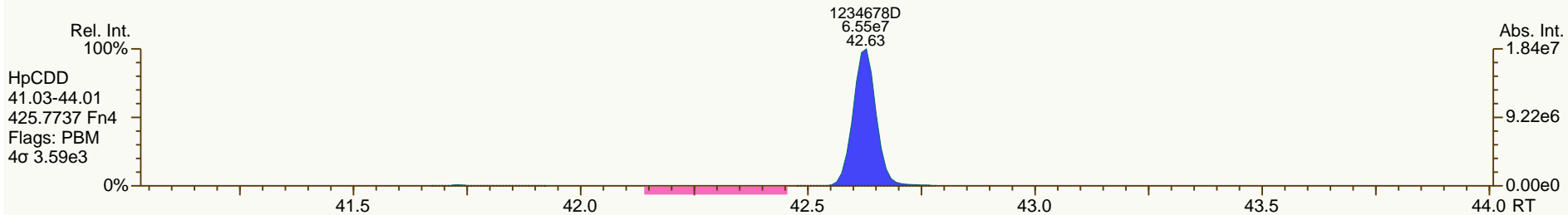
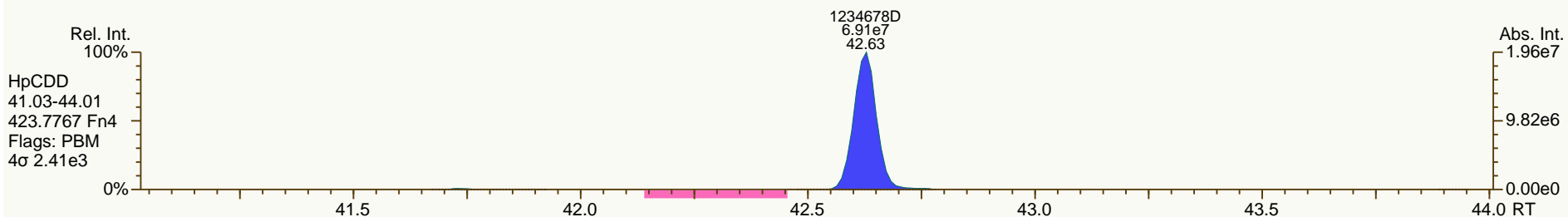
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

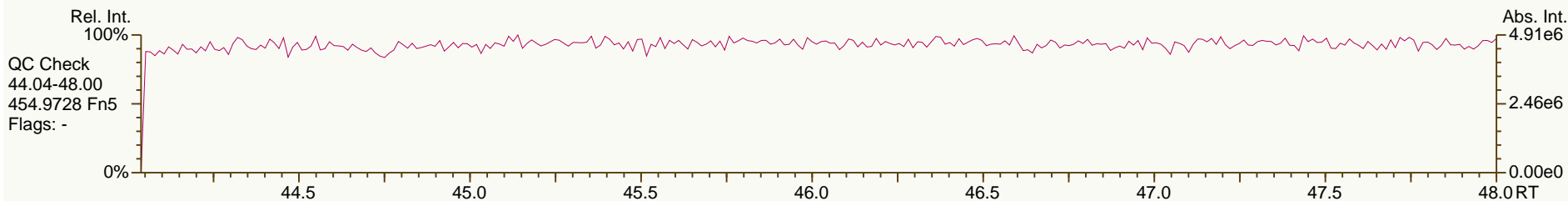
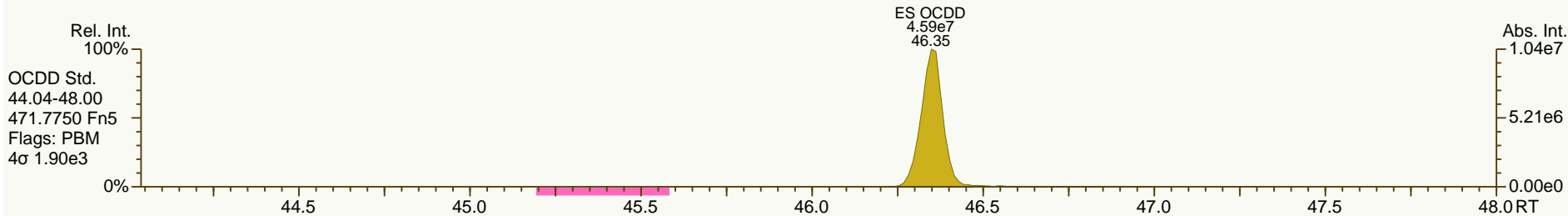
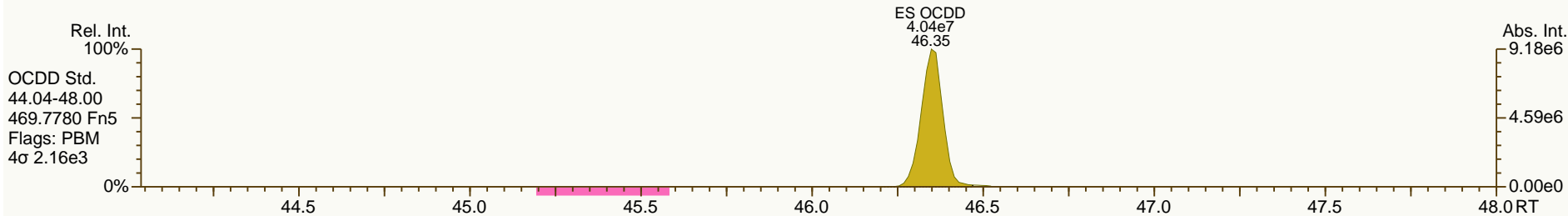
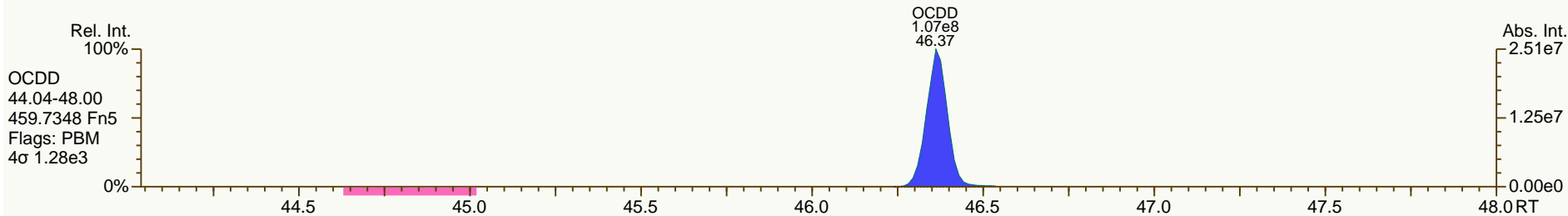
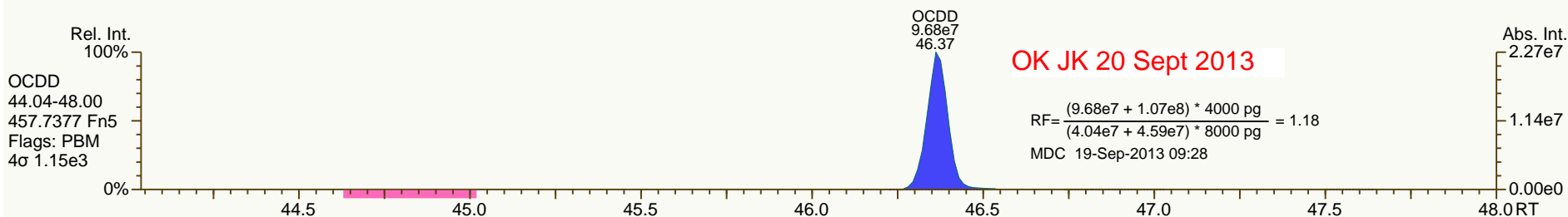
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

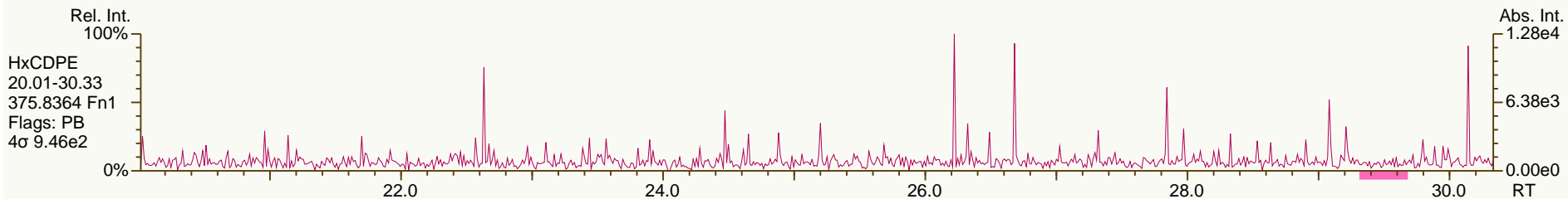
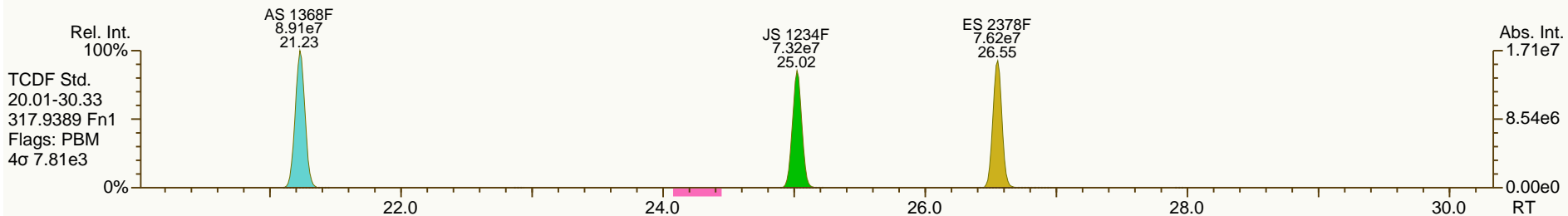
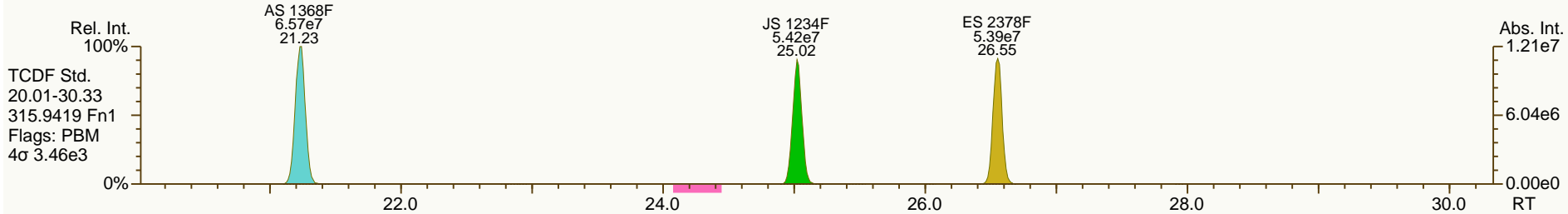
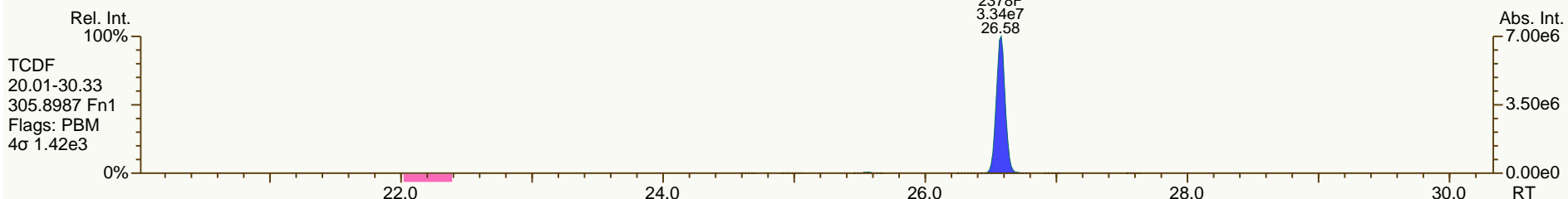
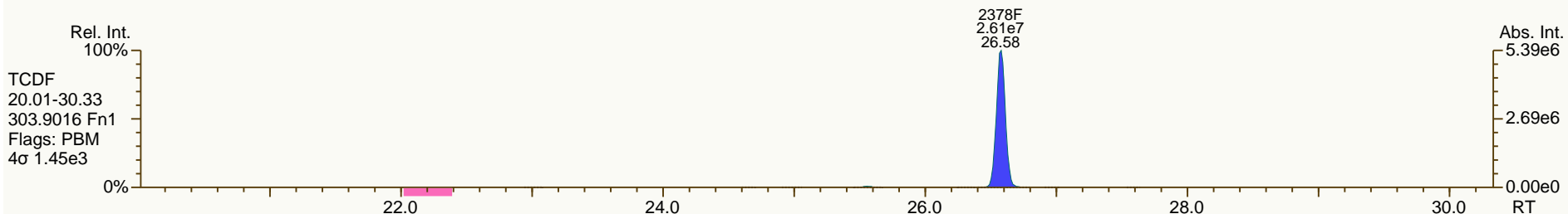
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SGS-AP ID: CS4
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 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

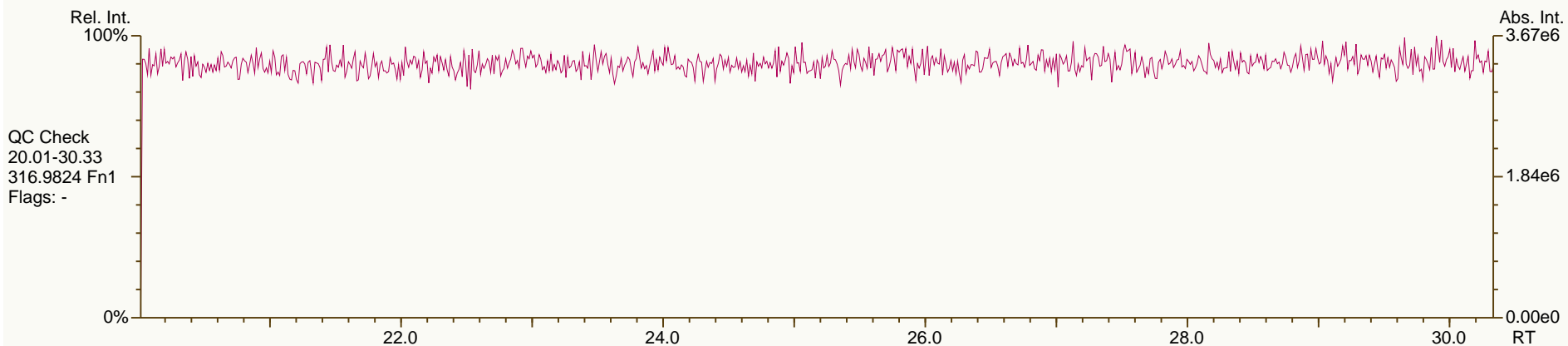
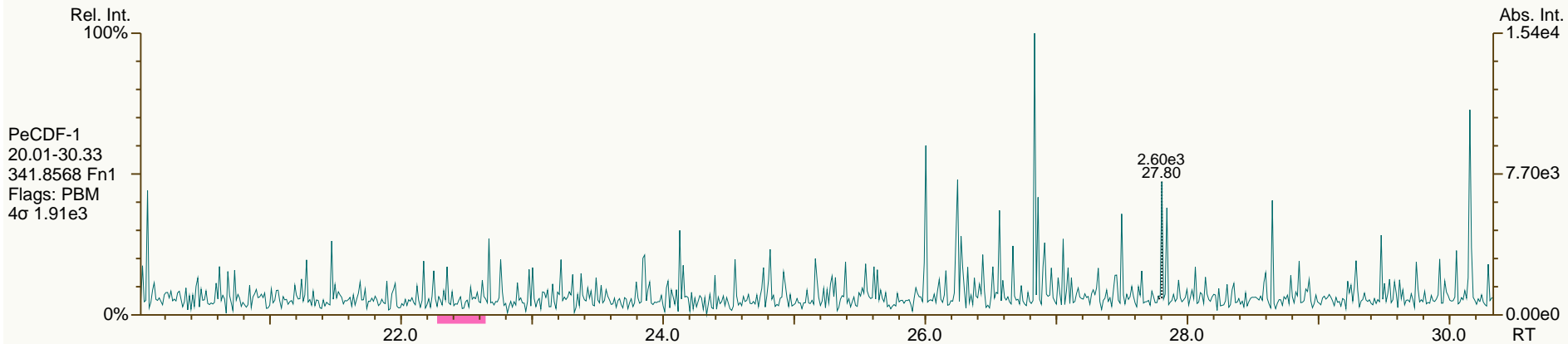
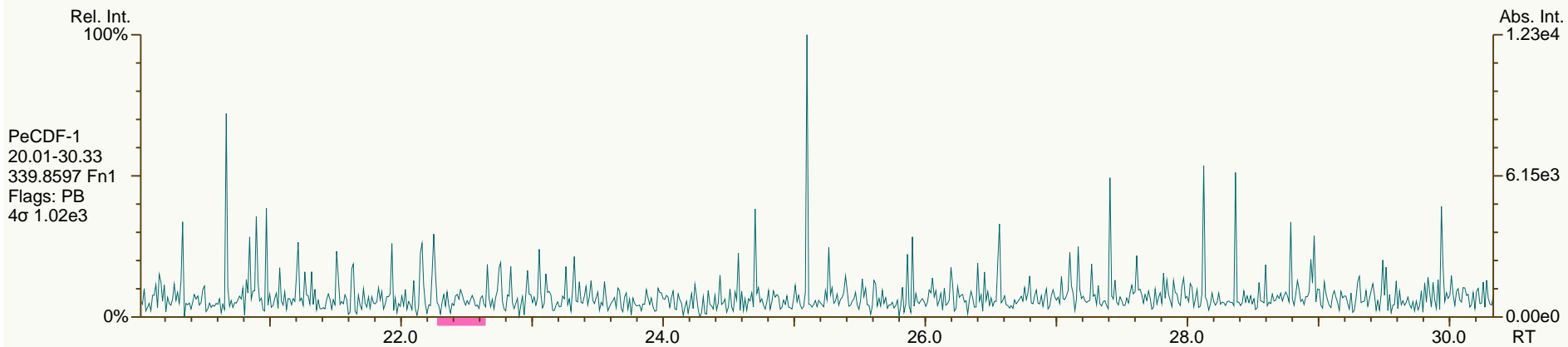
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

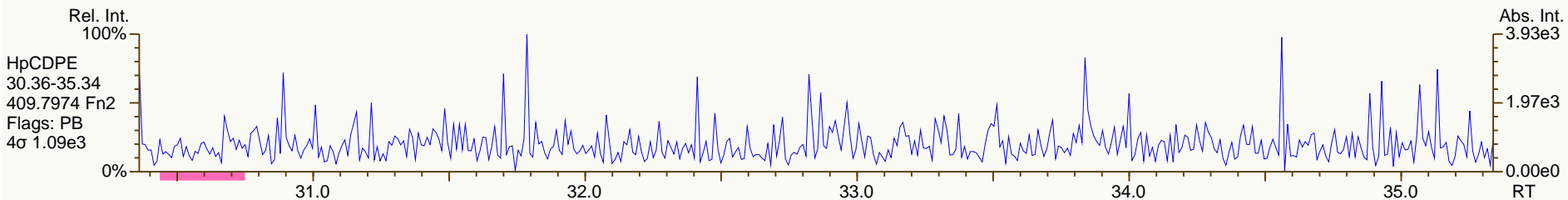
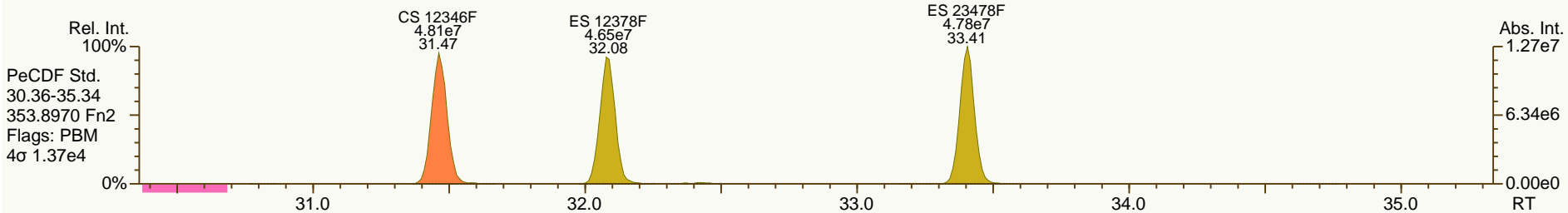
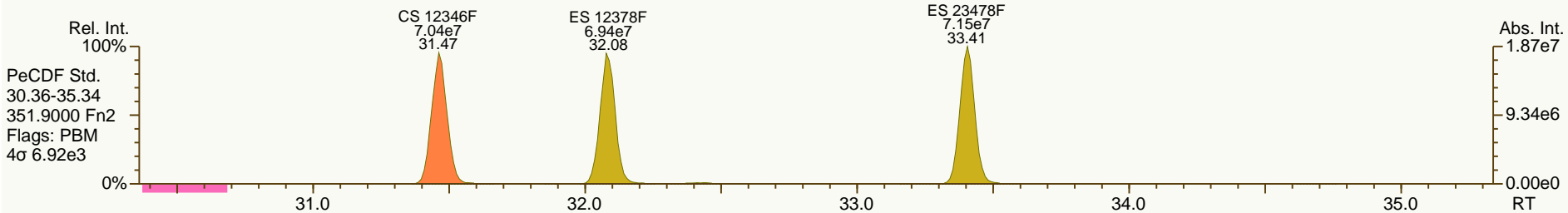
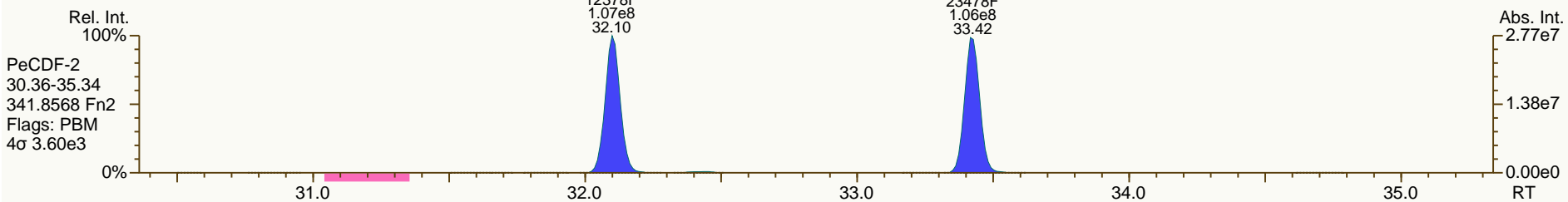
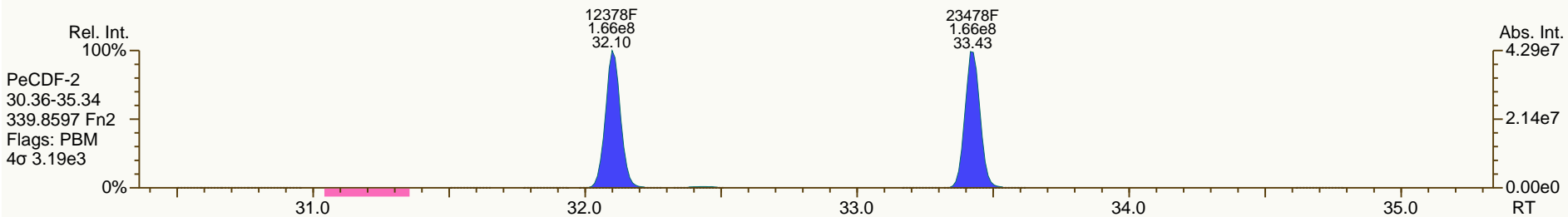
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

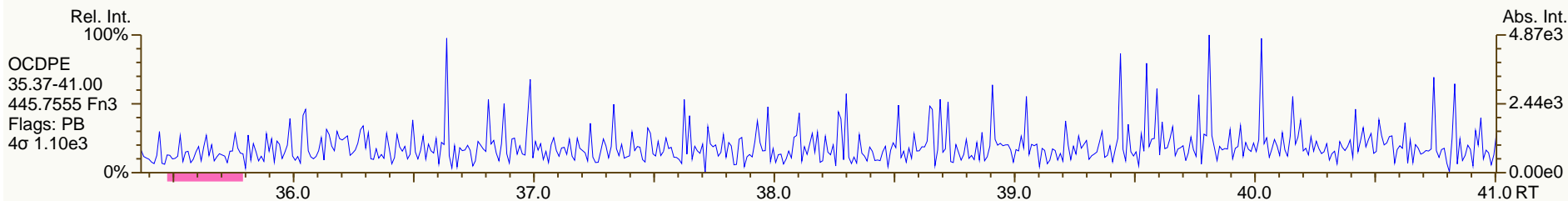
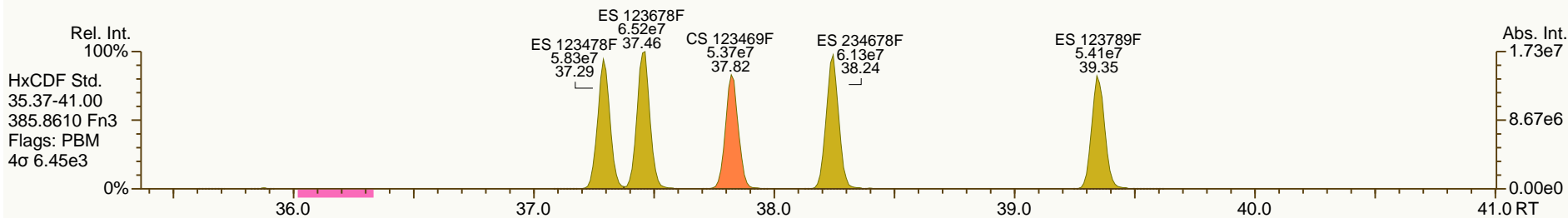
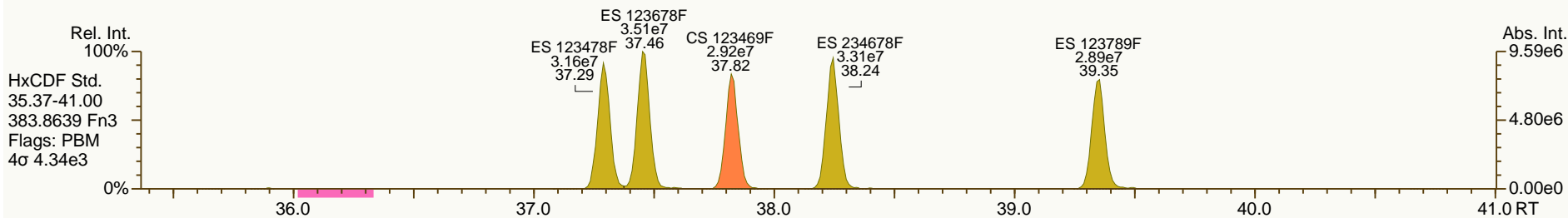
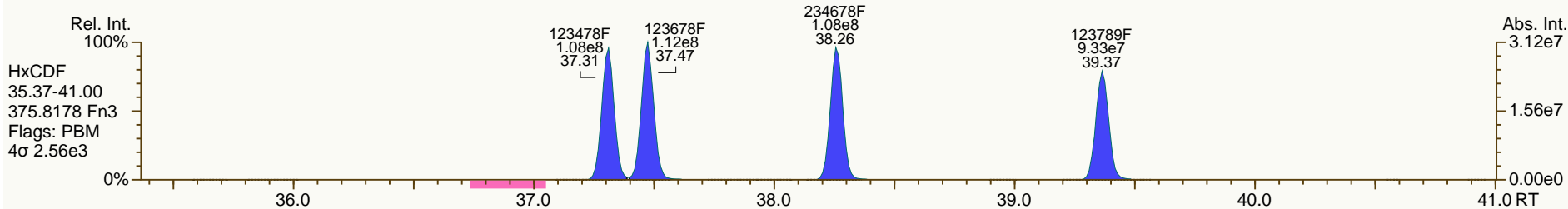
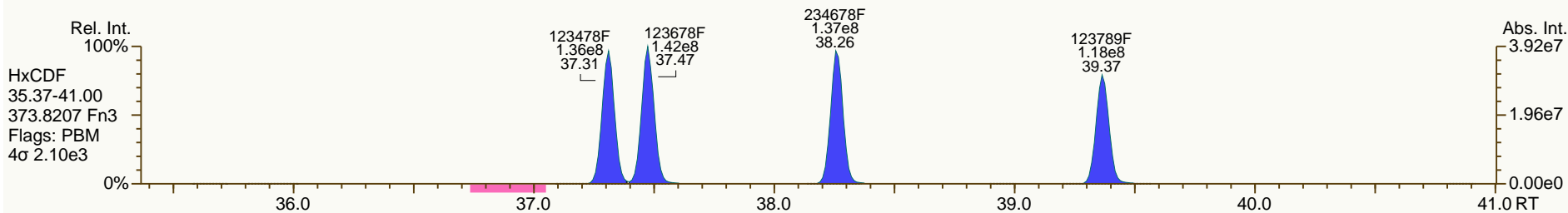
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

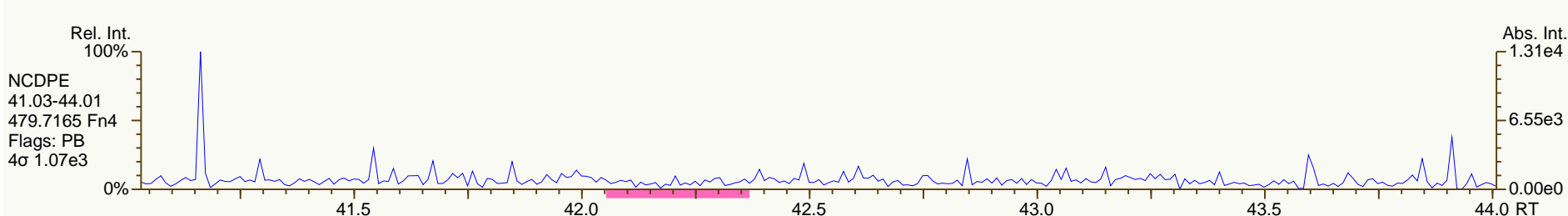
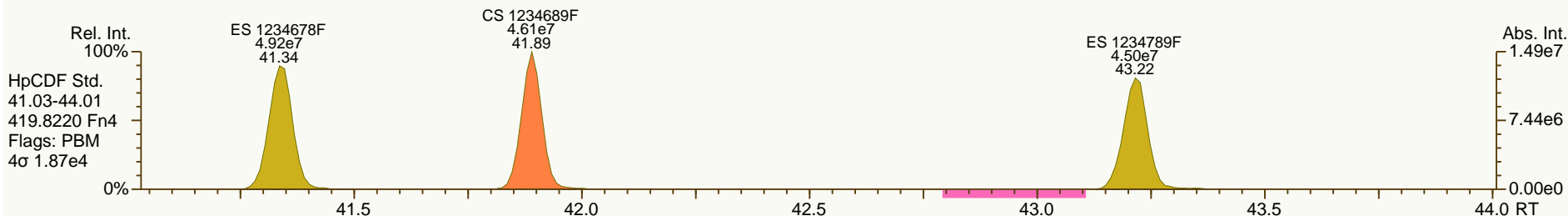
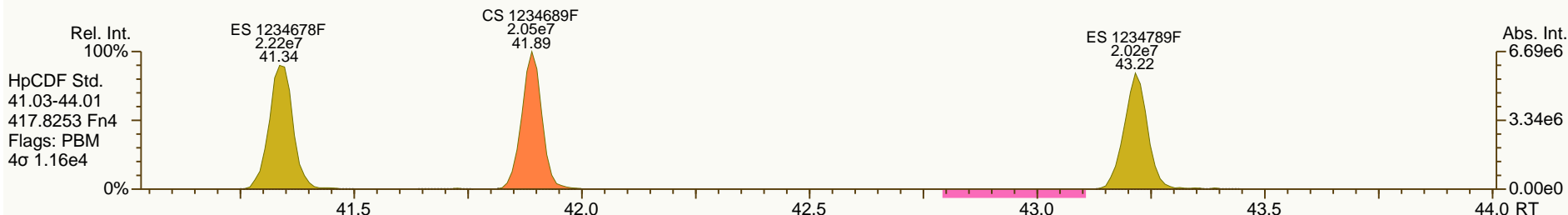
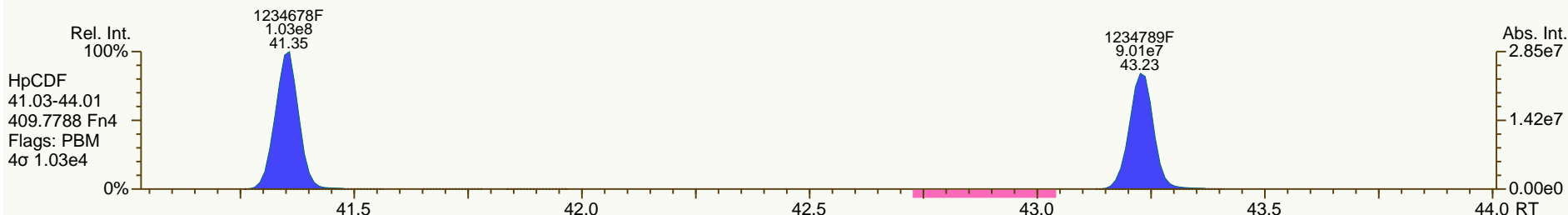
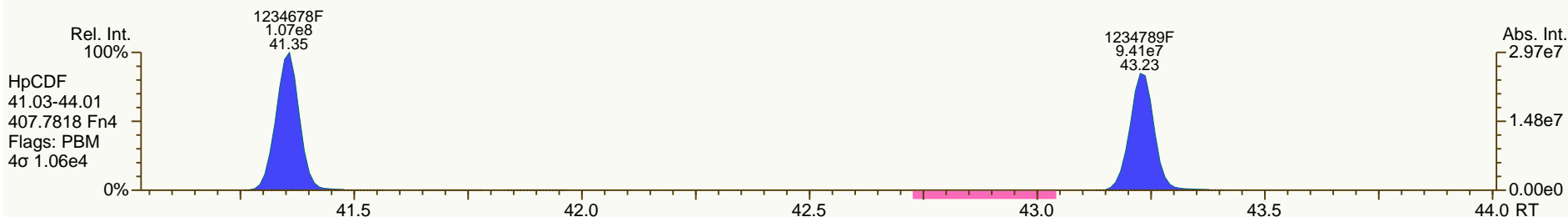
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SGS-AP ID: CS4
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

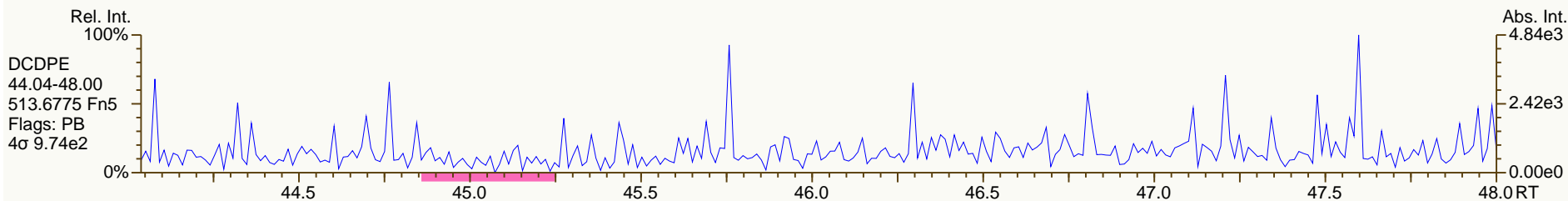
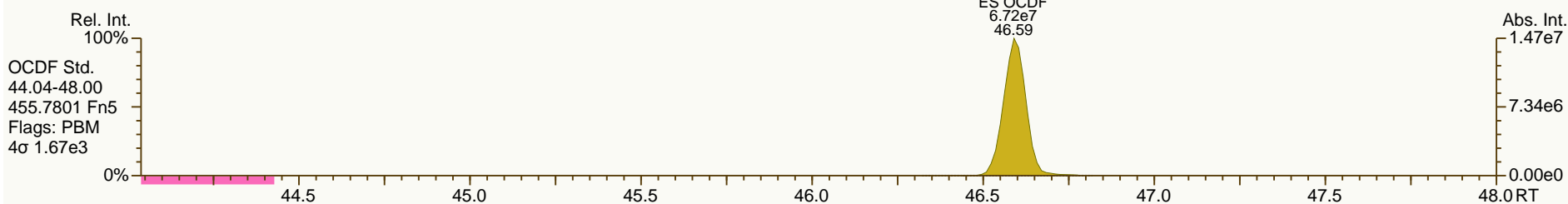
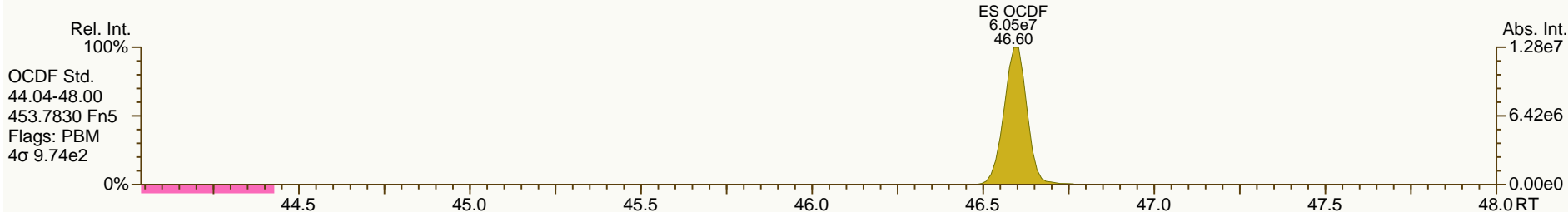
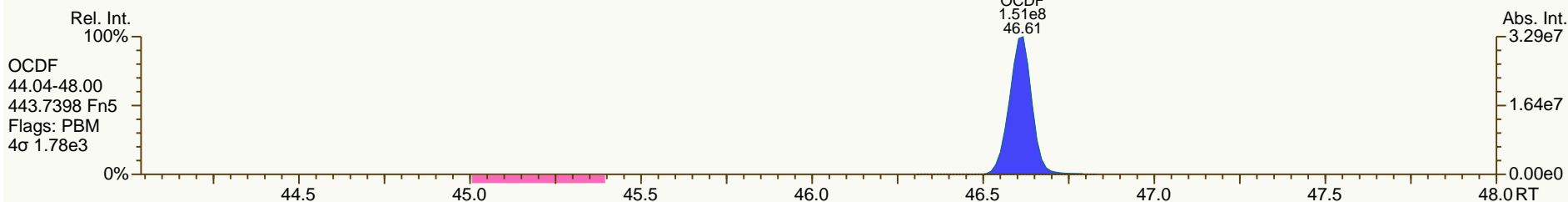
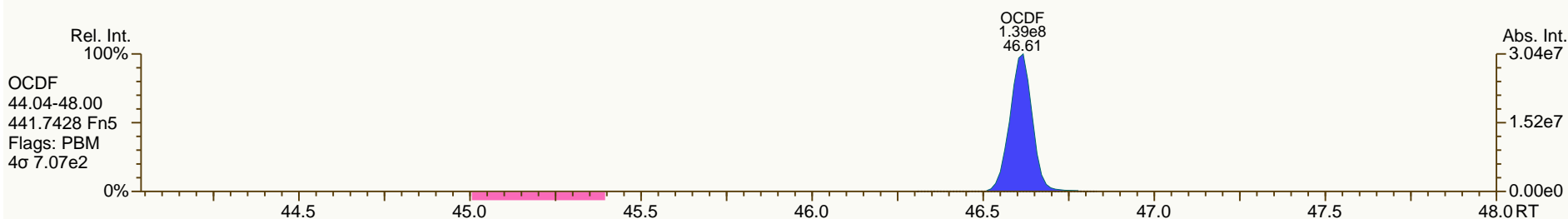
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SGS-AP ID: CS4
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 20

Acq: 18-SEP-2013 15:09:42
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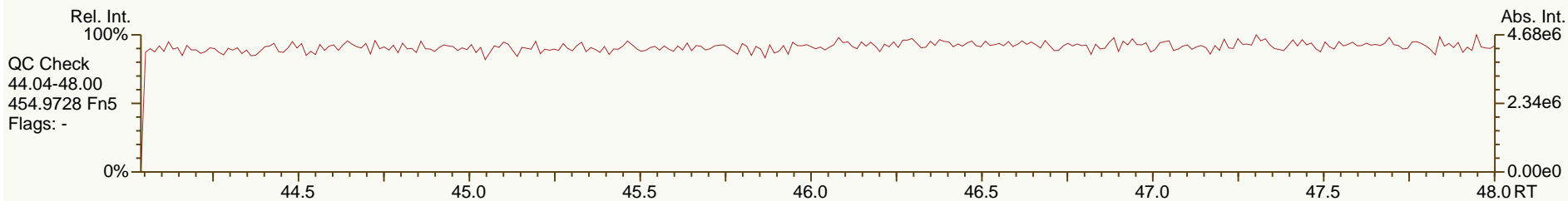
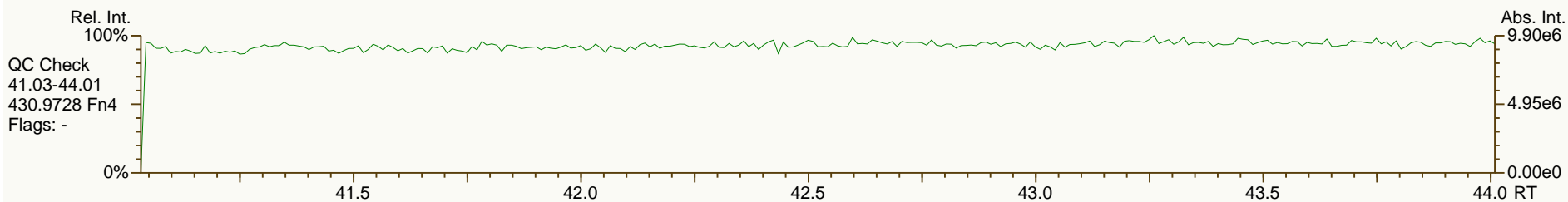
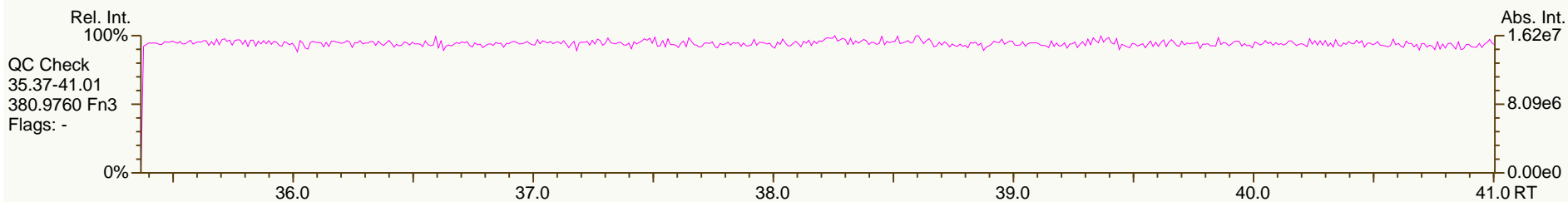
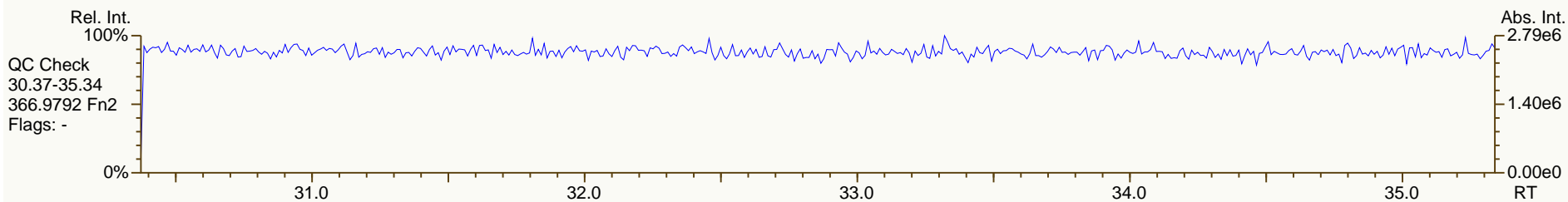
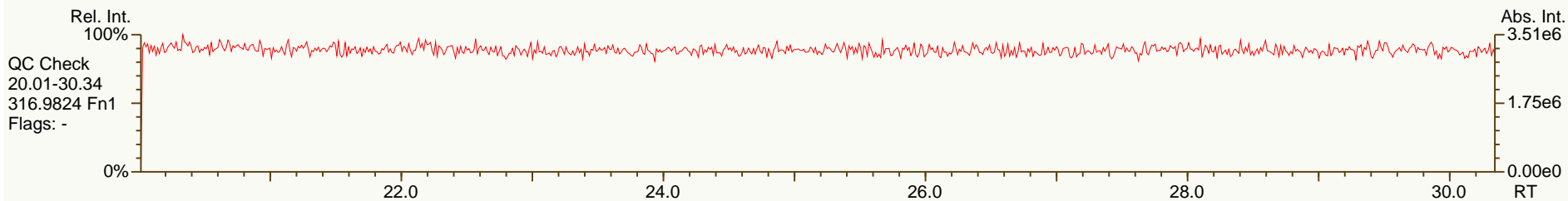
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Lab ID: CS5		UTP: 18-Sep-2013 16:57 MDC			Checkcode: 467-721-YJW		
Sample ID: 11012012A		Report: 19 Sep 2013 09:12 MC			Datafile: 130918P1-07		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.56	1.88E+08	0.80	Y	1.18	1.25	5%
12378-PeCDD	33.83	7.84E+08	1.60	Y	1.07	1.13	5%
123478-HxCDD	38.48	7.19E+08	1.28	Y	1.19	1.25	5%
123678-HxCDD	38.61	6.93E+08	1.27	Y	1.19	1.18	-1%
123789-HxCDD	38.95	7.44E+08	1.27	Y	1.12	1.15	3%
1234678-HpCDD	42.63	6.44E+08	1.05	Y	1.08	1.13	4%
OCDD	46.37	9.89E+08	0.91	Y	1.14	1.18	3%
2378-TCDF	26.57	2.65E+08	0.77	Y	1.10	1.09	0%
12378-PeCDF	32.10	1.31E+09	1.55	Y	1.17	1.18	1%
23478-PeCDF	33.42	1.32E+09	1.56	Y	1.14	1.17	2%
123478-HxCDF	37.31	1.19E+09	1.26	Y	1.34	1.37	3%
123678-HxCDF	37.47	1.27E+09	1.26	Y	1.23	1.29	5%
234678-HxCDF	38.26	1.18E+09	1.26	Y	1.26	1.29	3%
123789-HxCDF	39.37	1.02E+09	1.27	Y	1.23	1.29	5%
1234678-HpCDF	41.35	9.94E+08	1.04	Y	1.42	1.49	5%
1234789-HpCDF	43.23	8.72E+08	1.05	Y	1.39	1.45	4%
OCDF	46.62	1.42E+09	0.92	Y	1.11	1.15	4%
ES 2378-TCDD	27.54	7.56E+07	0.82	Y	1.02	1.03	1%
ES 12378-PeCDD	33.81	6.92E+07	1.59	Y	0.92	0.94	3%
ES 123478-HxCDD	38.46	5.76E+07	1.21	Y	1.02	1.08	6%
ES 123678-HxCDD	38.59	5.85E+07	1.22	Y	1.01	1.10	9%
ES 123789-HxCDD	38.93	6.45E+07	1.17	Y	1.14	1.21	6%
ES 1234678-HpCDD	42.61	5.69E+07	1.07	Y	1.02	1.07	5%
ES OCDD	46.36	8.38E+07	0.89	Y	0.72	0.79	9%
ES 2378-TCDF	26.55	1.21E+08	0.75	Y	1.01	1.02	2%
ES 12378-PeCDF	32.08	1.12E+08	1.50	Y	0.89	0.94	6%
ES 23478-PeCDF	33.40	1.12E+08	1.48	Y	0.91	0.95	5%
ES 123478-HxCDF	37.29	8.68E+07	0.53	Y	1.53	1.63	7%
ES 123678-HxCDF	37.46	9.90E+07	0.53	Y	1.73	1.86	8%
ES 234678-HxCDF	38.24	9.14E+07	0.54	Y	1.61	1.72	7%
ES 123789-HxCDF	39.35	7.94E+07	0.53	Y	1.39	1.49	7%
ES 1234678-HpCDF	41.34	6.68E+07	0.46	Y	1.20	1.26	5%
ES 1234789-HpCDF	43.22	6.03E+07	0.45	Y	1.07	1.13	6%
ES OCDF	46.60	1.24E+08	0.90	Y	1.04	1.16	11%

Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 16:02 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS5		UTP: 18-Sep-2013 16:57 MDC			Checkcode: 467-721		
Sample ID: 11012012A		Report: 19 Sep 2013 09:12 MC			Datafile: 130918P1-07		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
JS 1234-TCDD	26.79	7.34E+07	0.82	Y	-	-	-
JS 1234-TCDF	25.02	1.19E+08	0.73	Y	-	-	-
JS 123467-HxCDD	38.81	2.66E+07	1.18	Y	-	-	-
CS 37C1-2378-TCDD	27.56	1.78E+08	n/a	-	1.13	1.21	7%
CS 12347-PeCDD	33.22	6.35E+07	1.60	Y	0.88	0.86	-1%
CS 12346-PeCDF	31.46	1.05E+08	1.51	Y	0.90	0.88	-2%
CS 123469-HxCDF	37.82	7.41E+07	0.53	Y	1.40	1.39	-1%
CS 1234689-HpCDF	41.89	5.65E+07	0.44	Y	1.09	1.06	-3%
SS 37C1-2378-TCDD	27.56	1.78E+08	n/a	-	1.11	1.18	6%
SS 12347-PeCDD	33.22	6.35E+07	1.60	Y	0.96	0.92	-4%
SS 12346-PeCDF	31.46	1.05E+08	1.51	Y	1.02	0.94	-8%
SS 123469-HxCDF	37.82	7.41E+07	0.53	Y	0.81	0.75	-8%
SS 1234689-HpCDF	41.89	5.65E+07	0.44	Y	0.91	0.85	-7%
AS 1368-TCDD	23.43	7.42E+07	0.80	Y	1.01	1.01	0%
AS 1368-TCDF	21.23	1.46E+08	0.75	Y	1.22	1.23	1%
FS 1278-TCDD	27.92	8.95E+07	0.80	Y	1.18	1.18	1%
FS 12478-PeCDD	32.36	6.98E+07	1.58	Y	1.06	1.01	-5%
FS 123468-HxCDD	37.21	6.81E+07	1.18	Y	1.26	1.18	-6%
FS 1234679-HpCDD	41.71	5.88E+07	1.08	Y	1.12	1.03	-8%
TS 1378-TCDD	25.66	8.30E+07	0.81	Y	1.11	1.10	-1%
OCDD-a	46.37	5.93E+07	2.59	Y	0.07	0.07	4%
OCDF-a	46.61	8.08E+07	2.59	Y	0.06	0.07	3%

SGS-AP ID: CS5
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

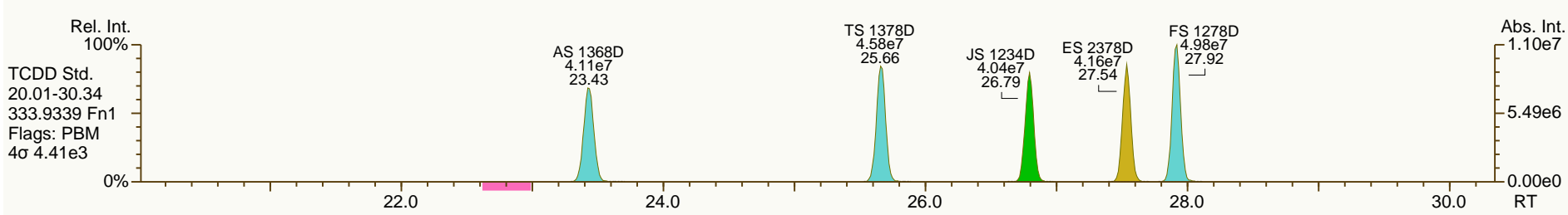
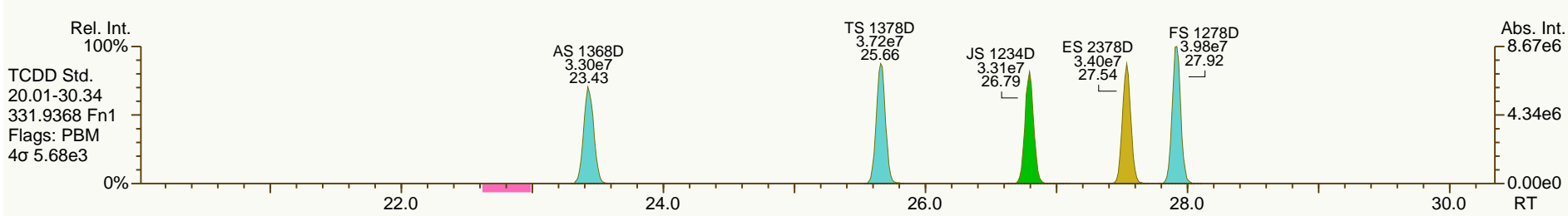
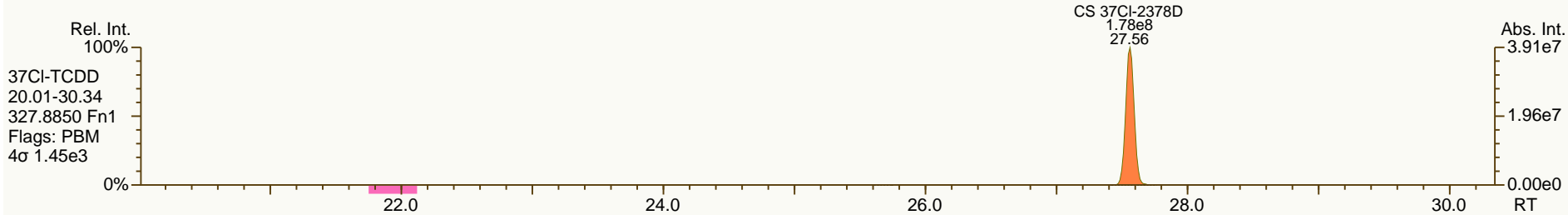
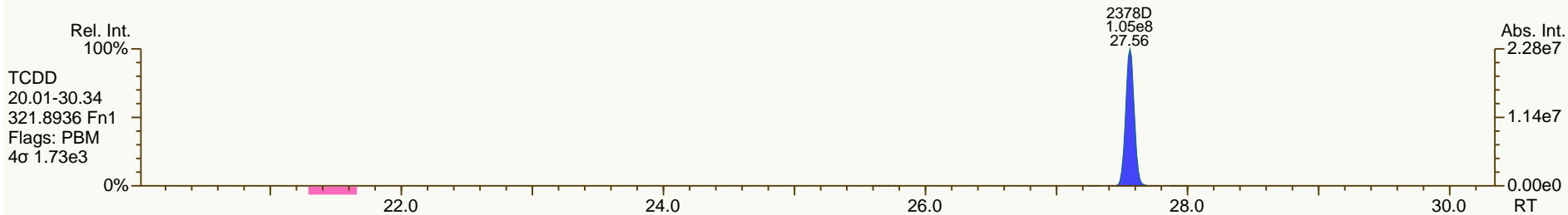
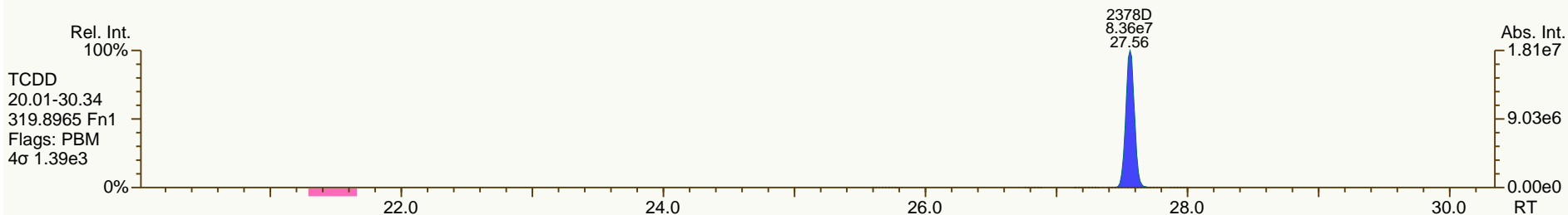
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SGS-AP ID: CS5
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

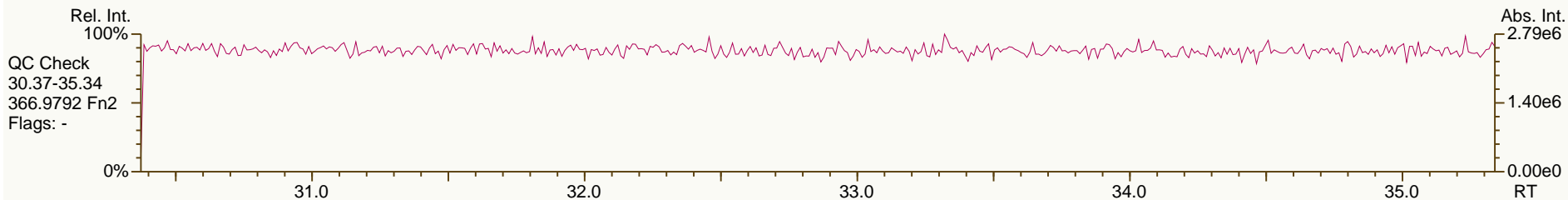
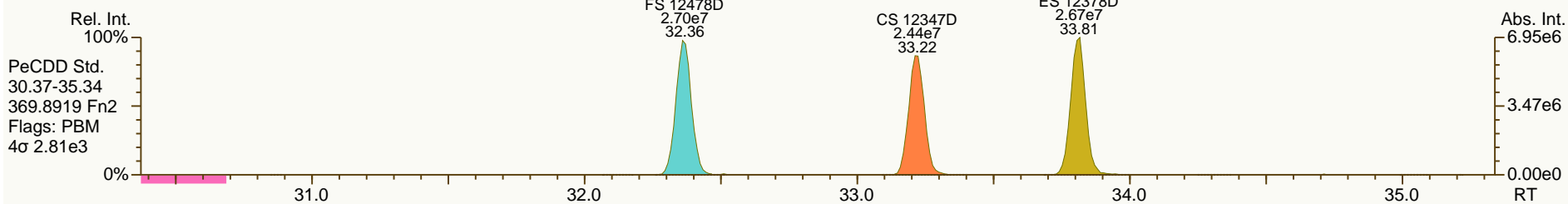
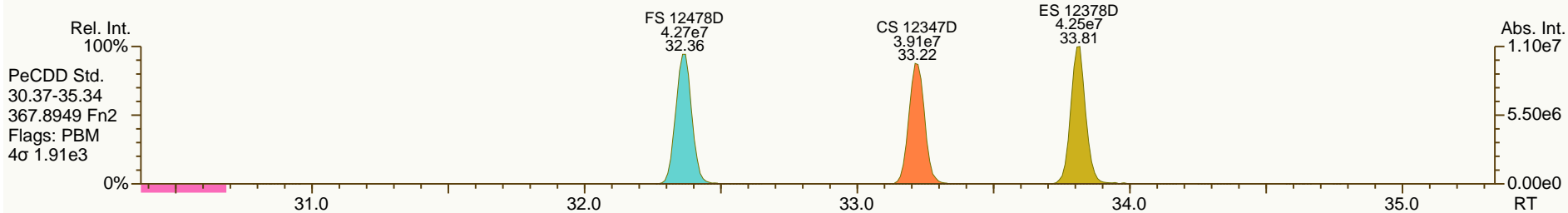
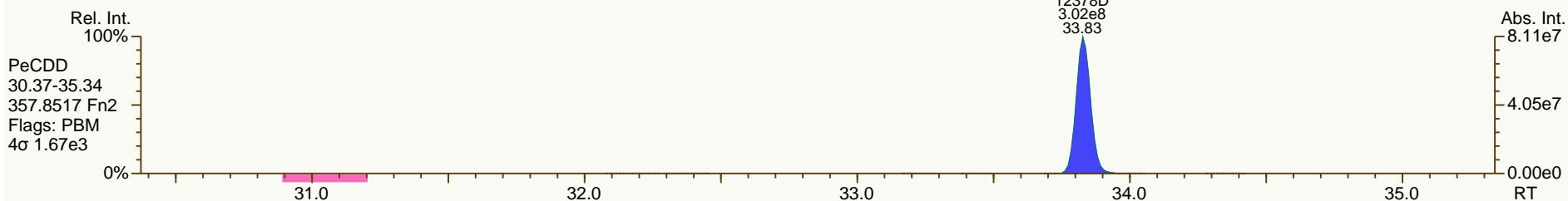
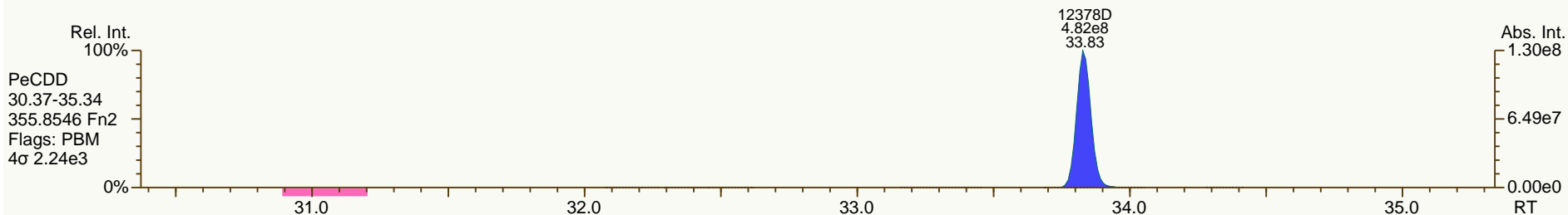
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SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

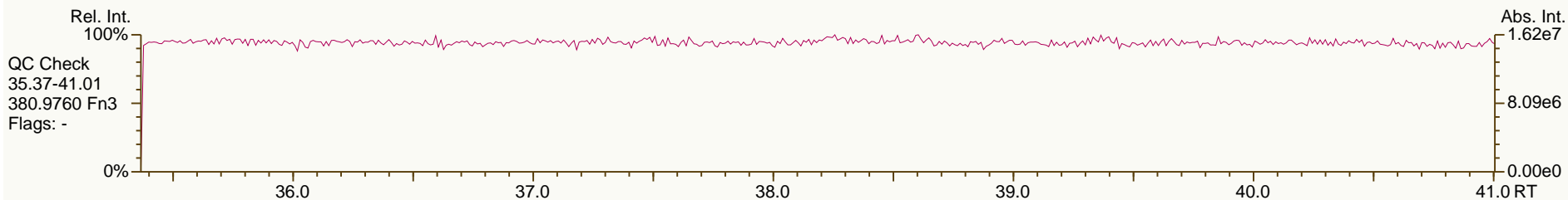
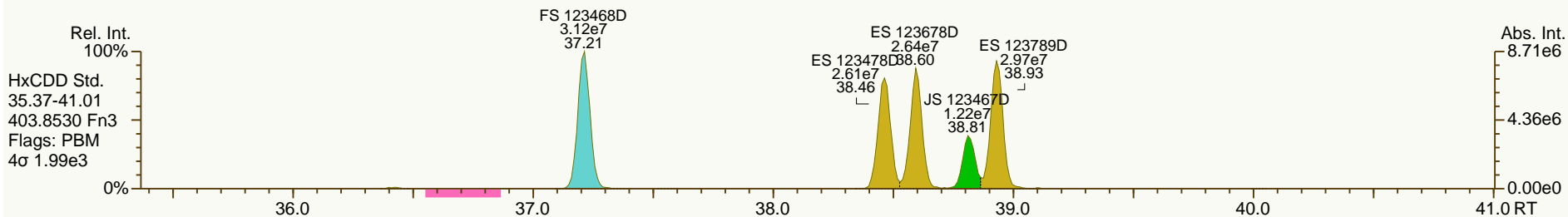
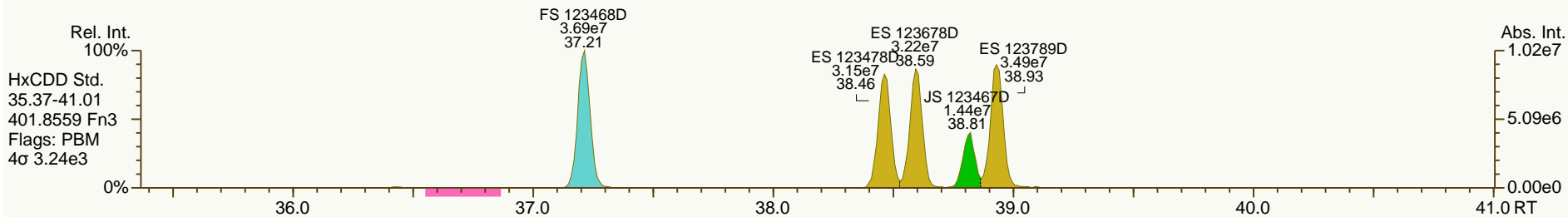
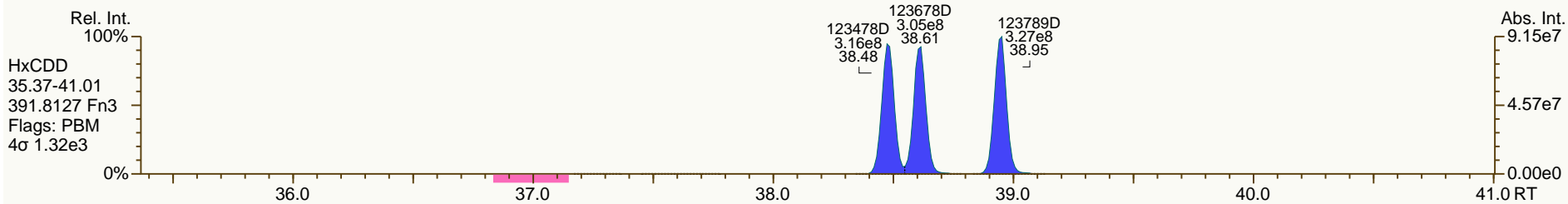
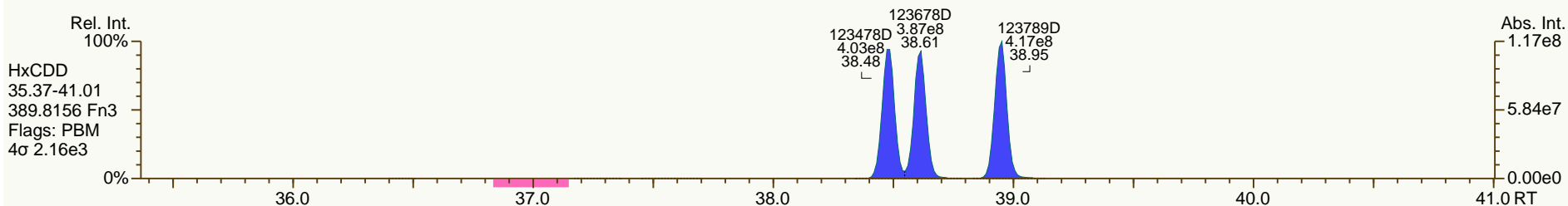
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SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

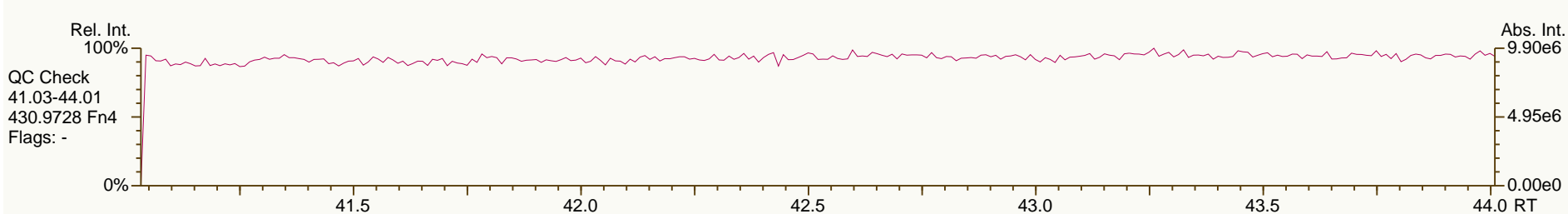
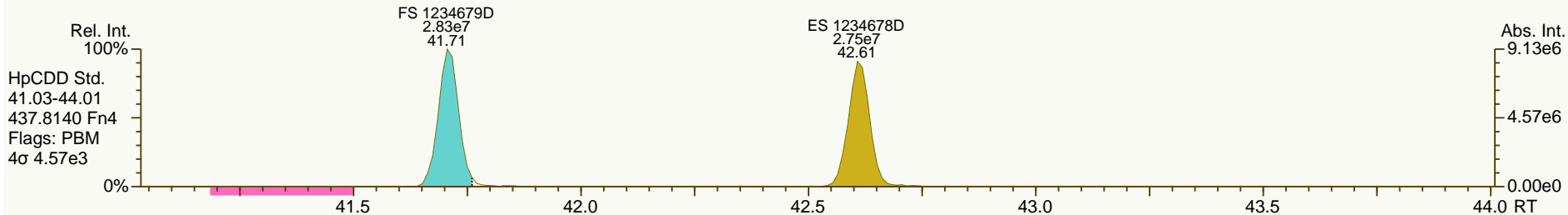
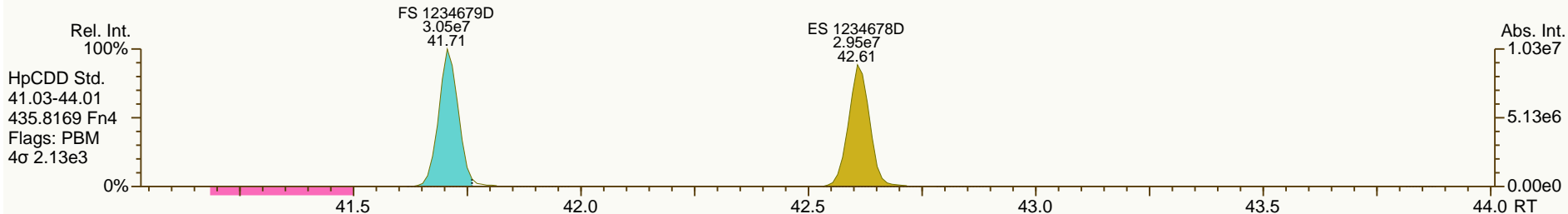
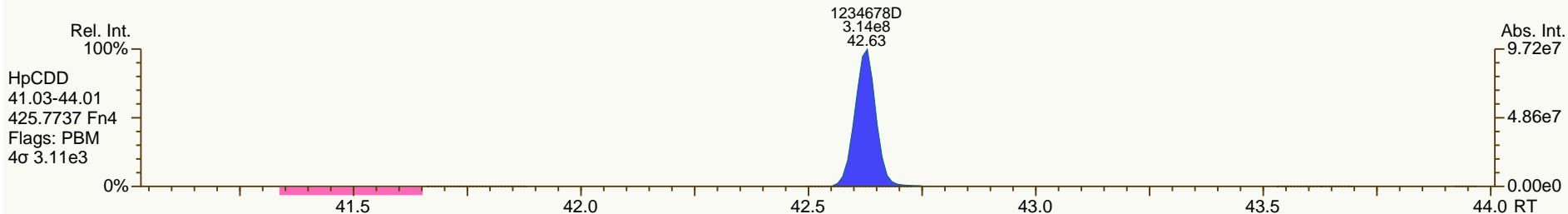
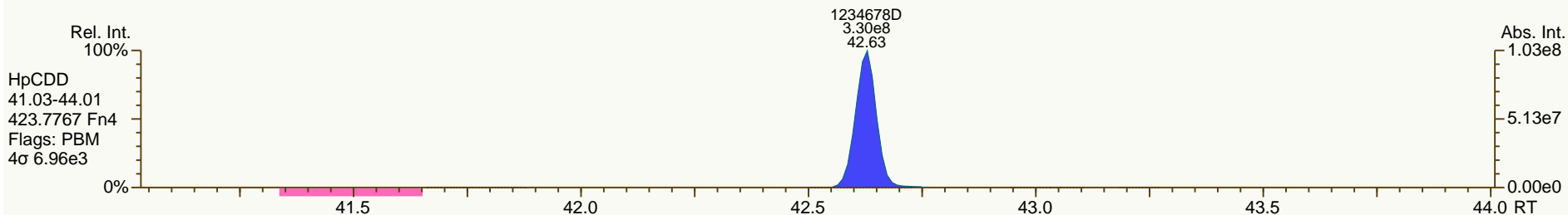
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SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

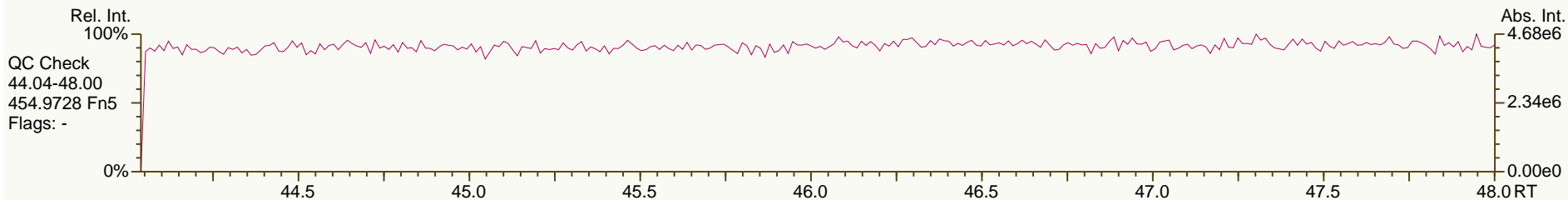
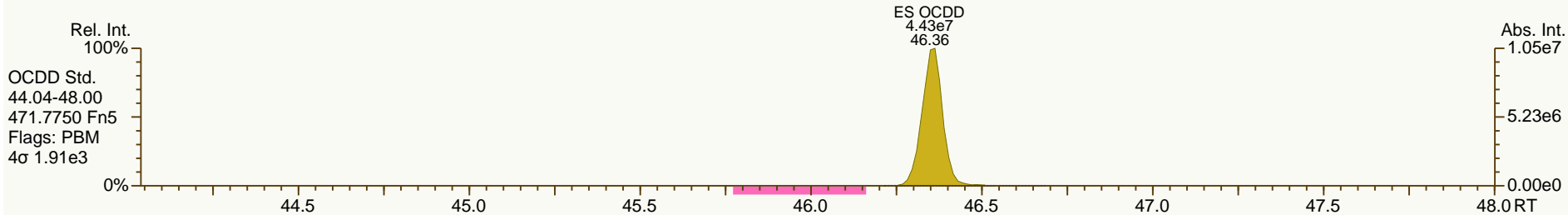
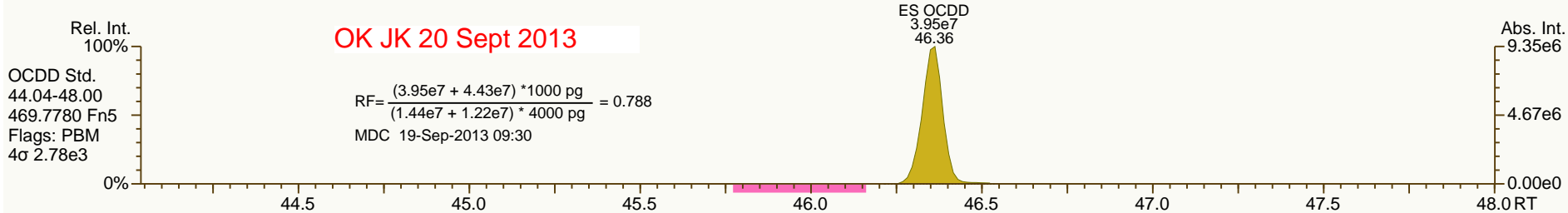
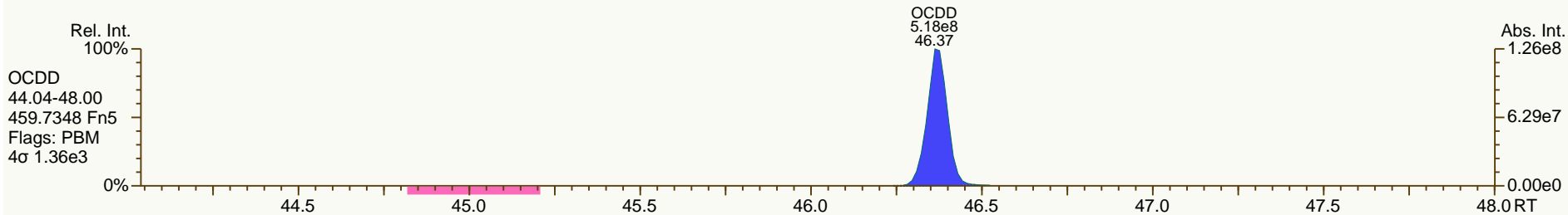
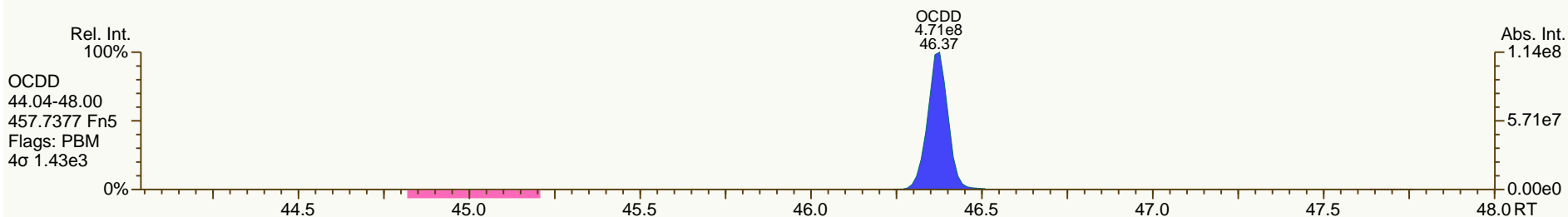
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SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

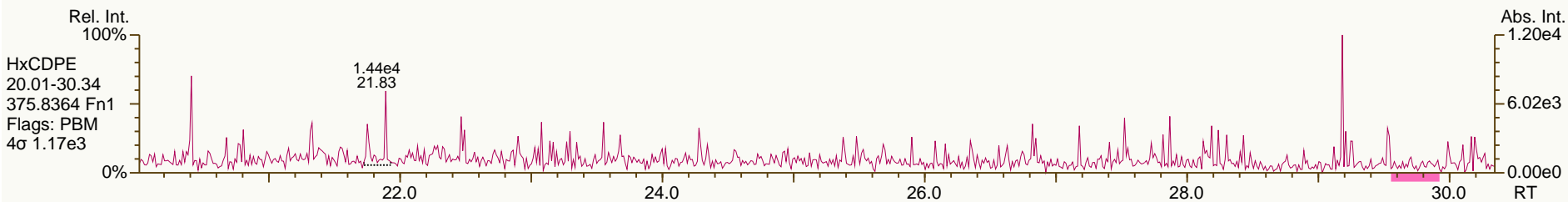
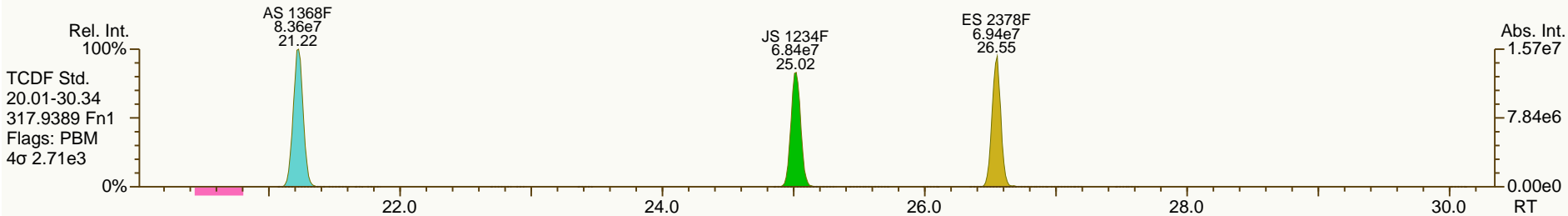
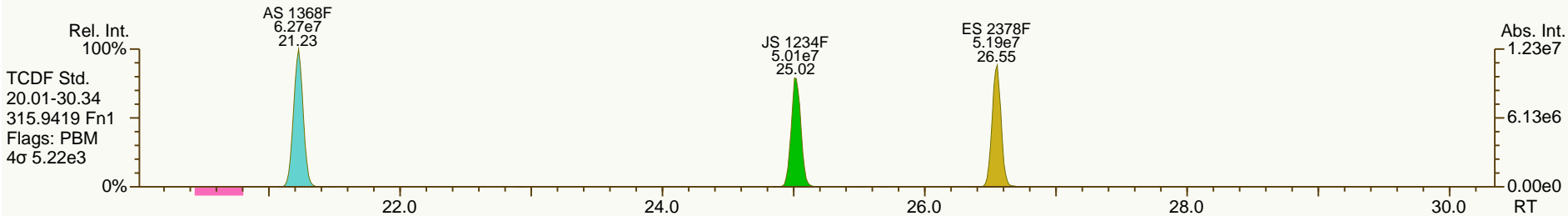
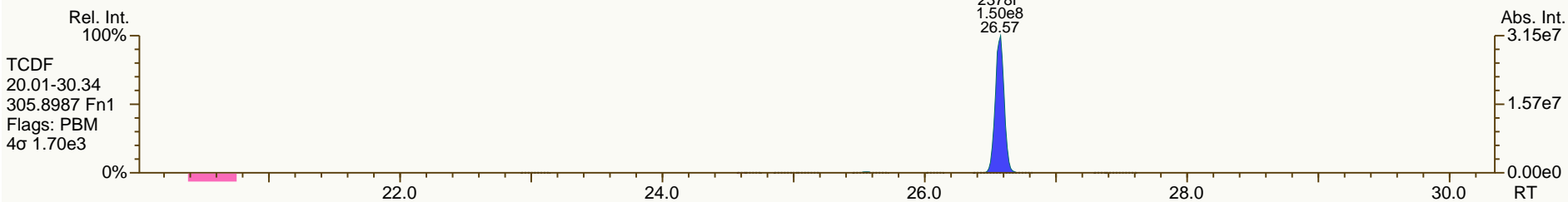
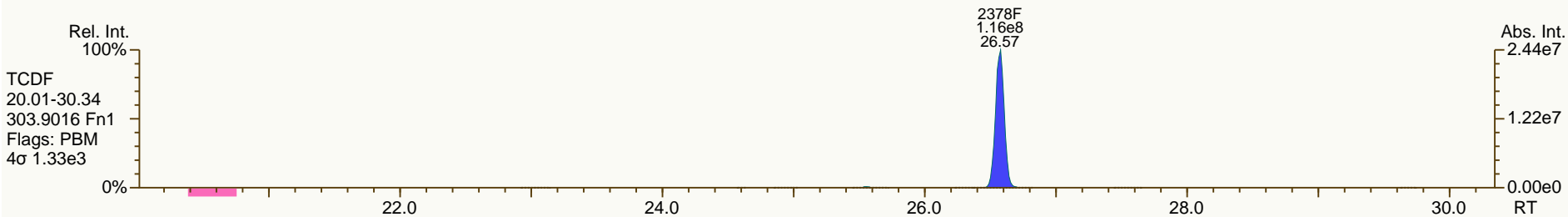
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SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

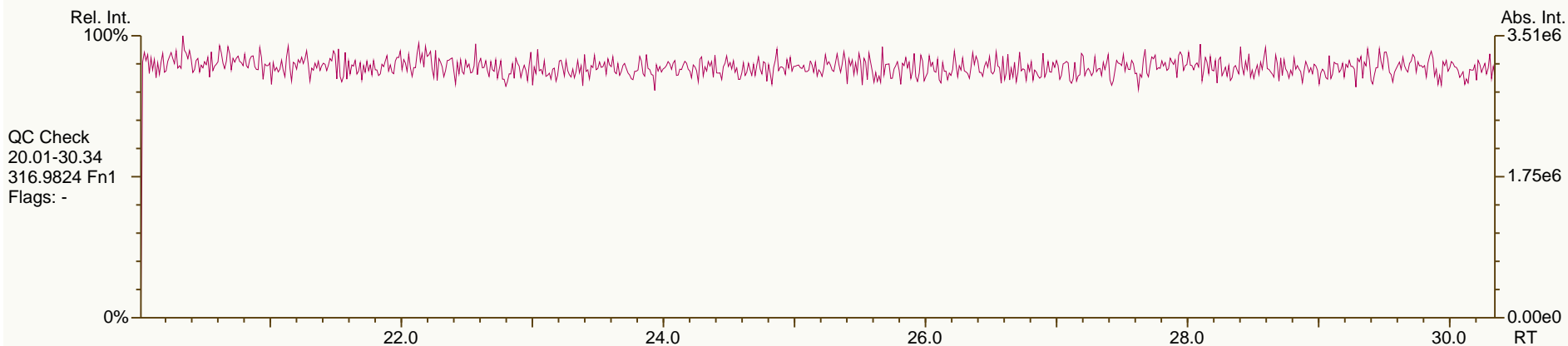
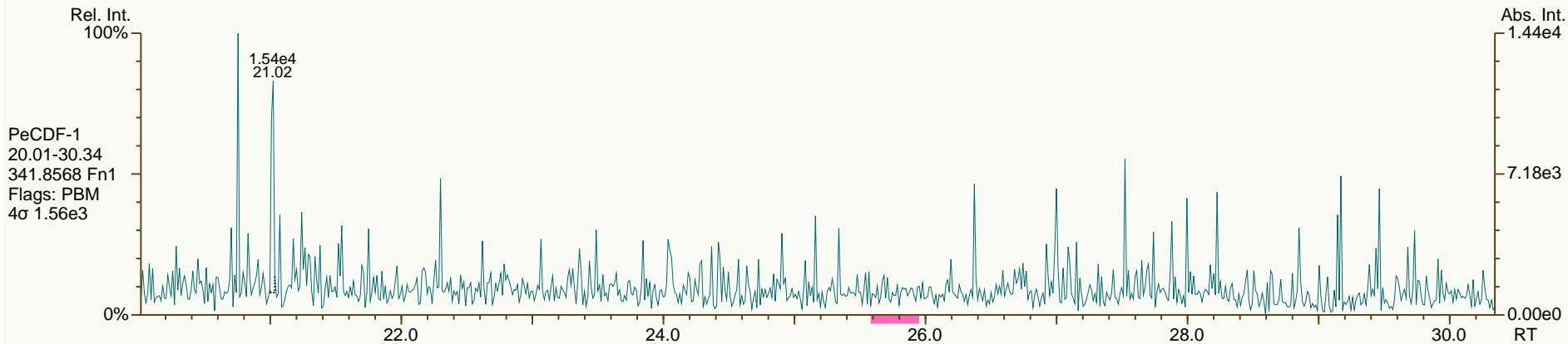
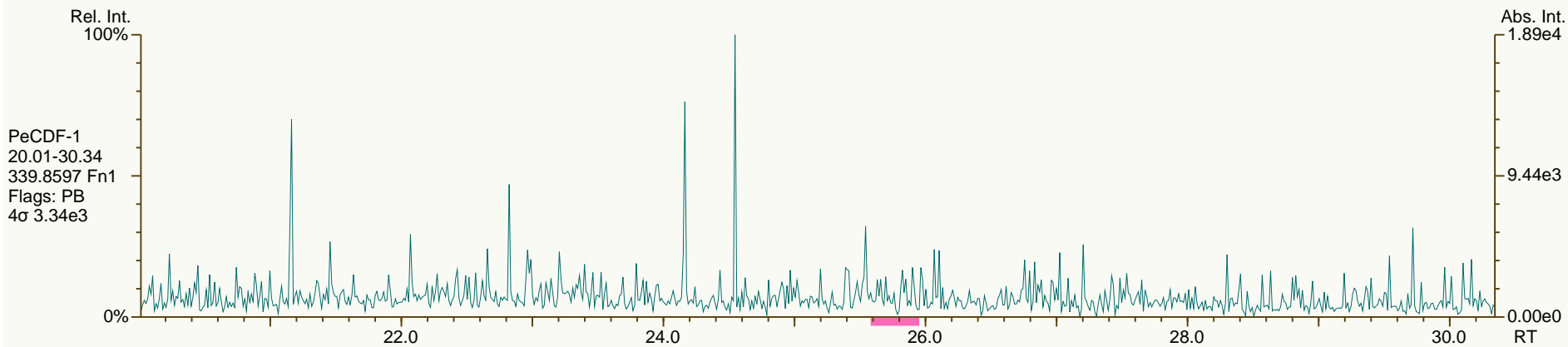
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SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

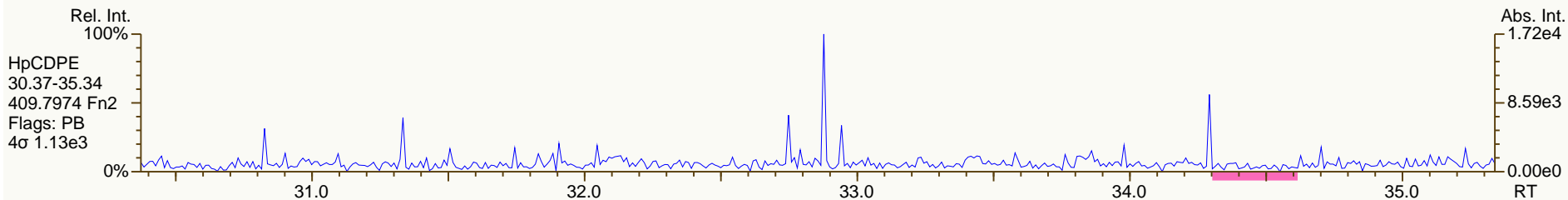
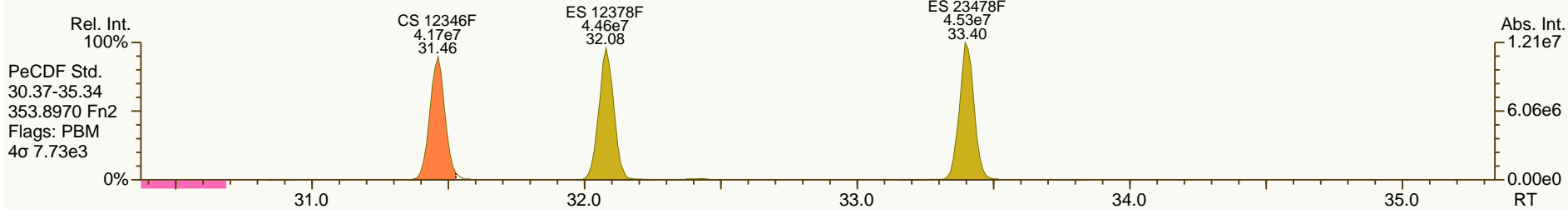
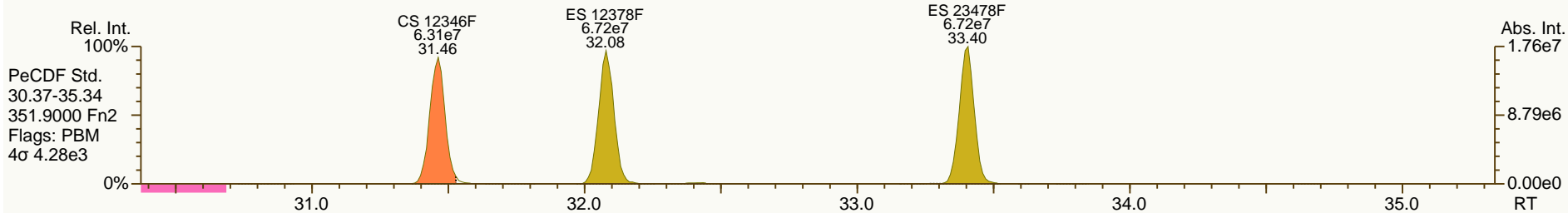
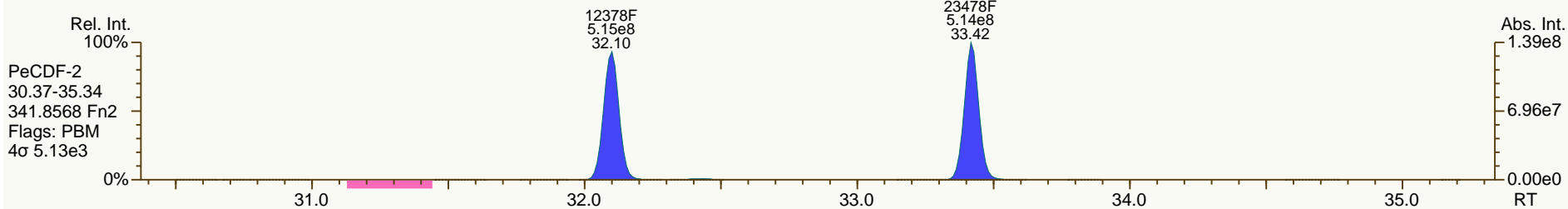
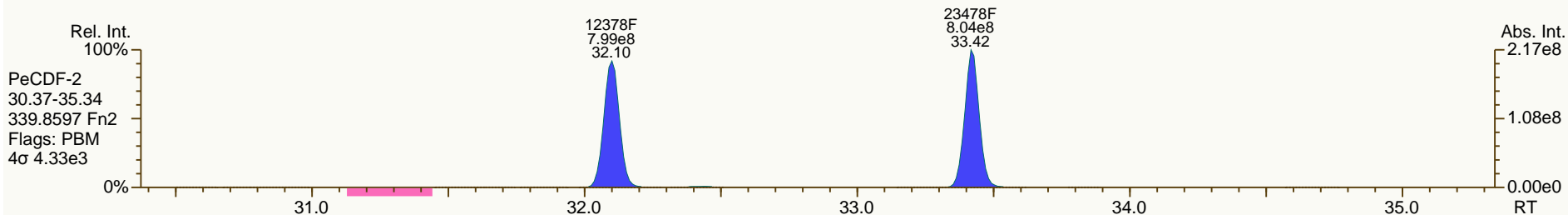
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SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

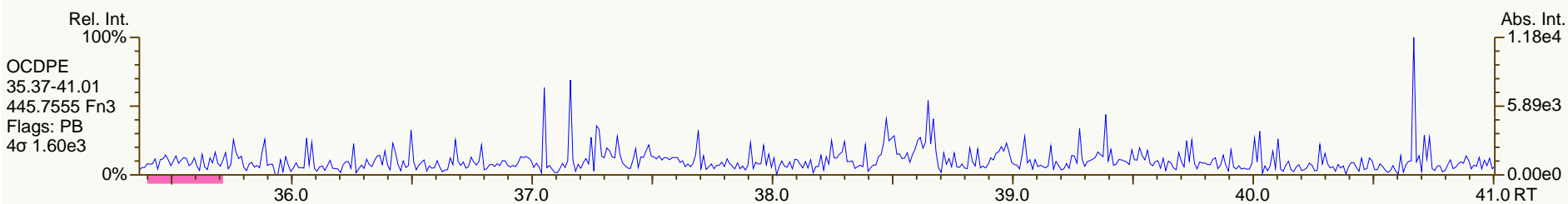
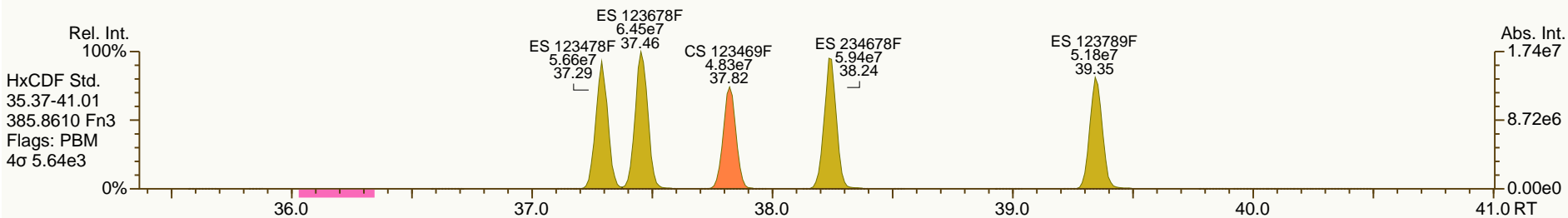
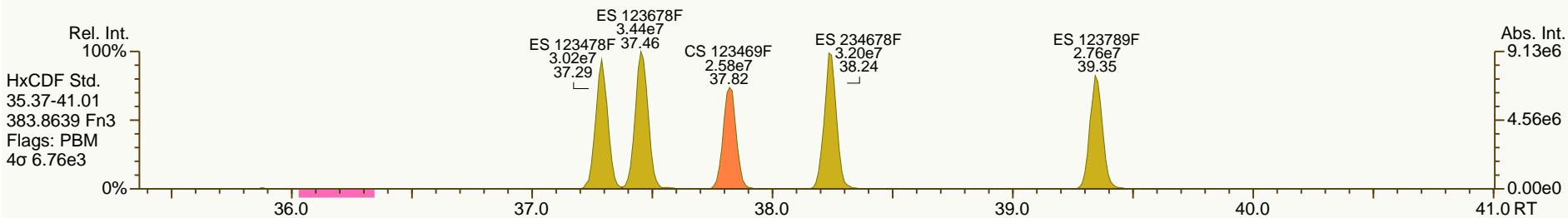
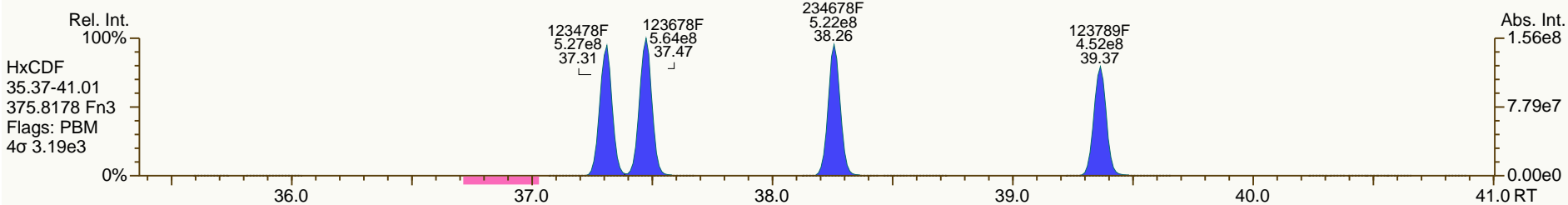
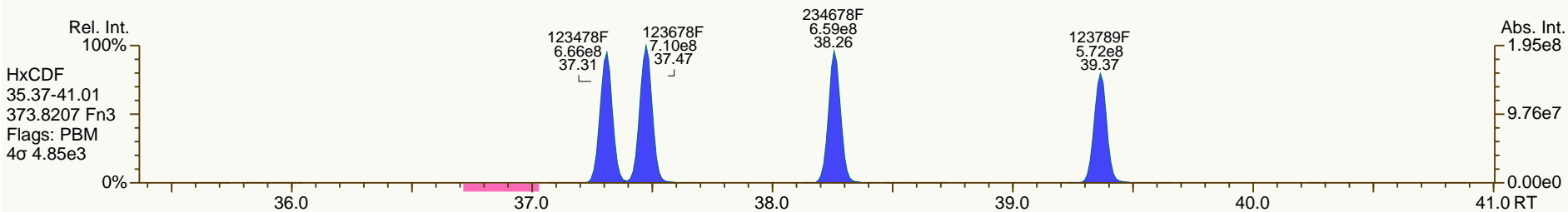
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SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

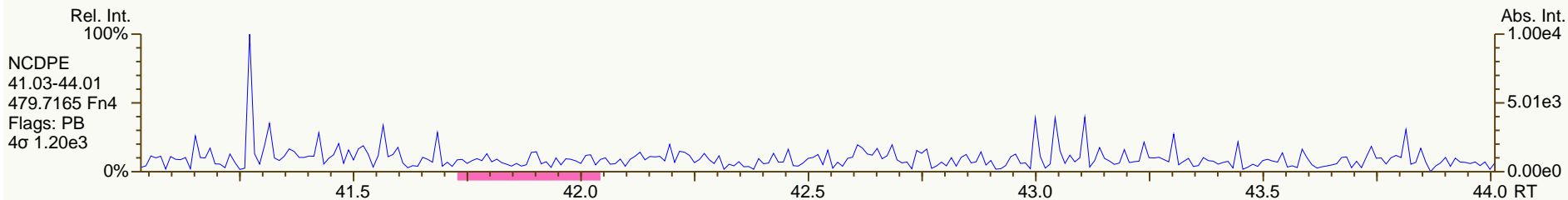
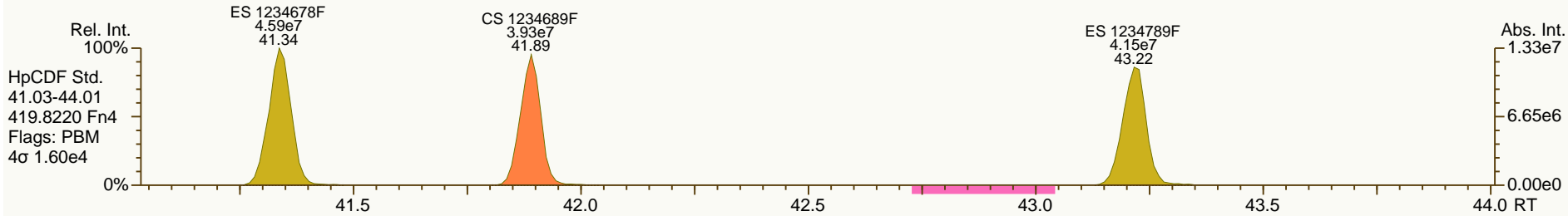
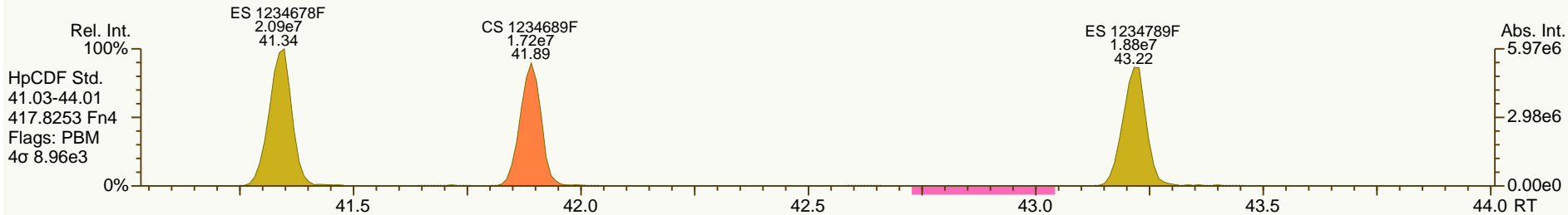
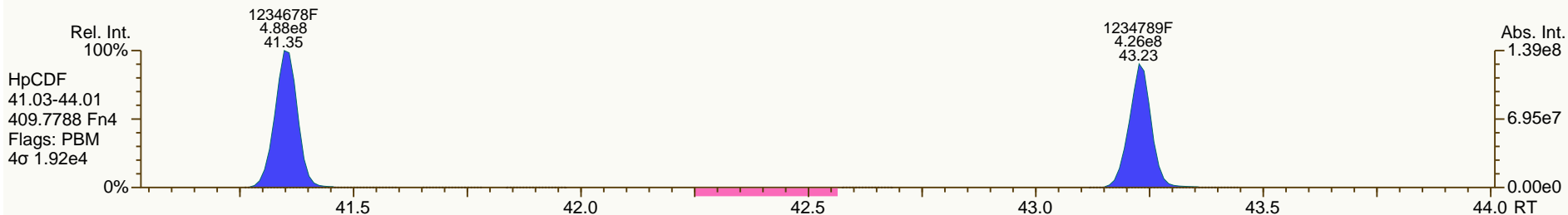
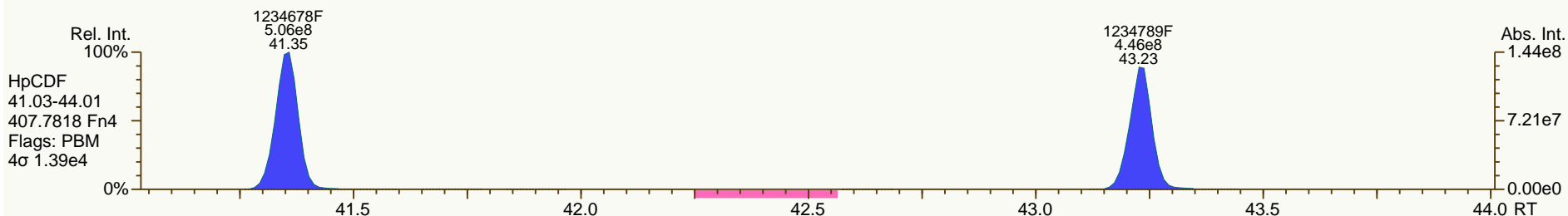
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SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

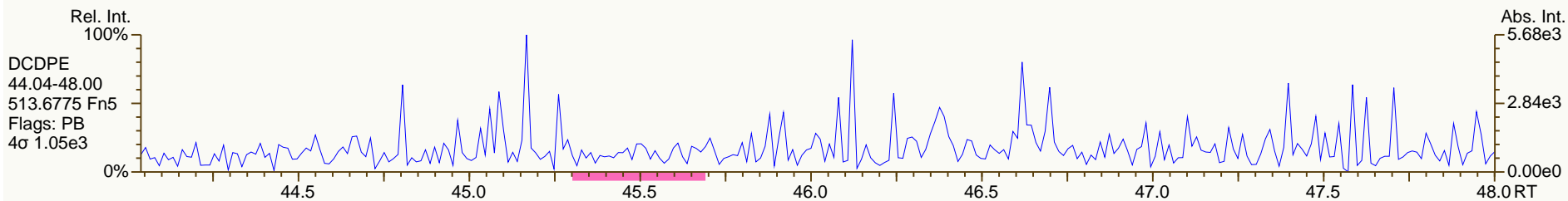
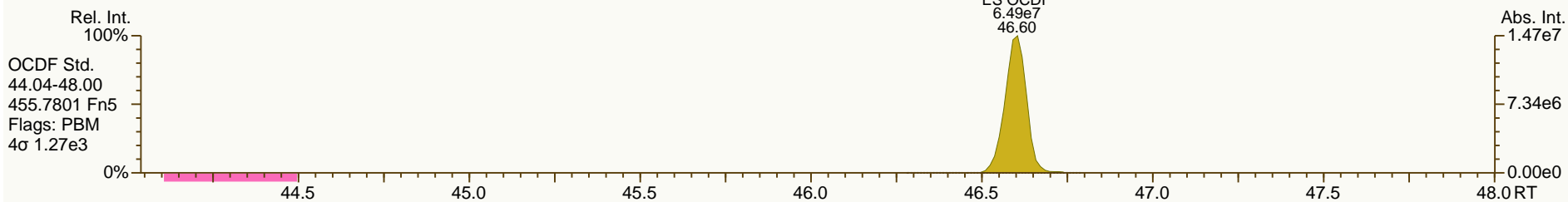
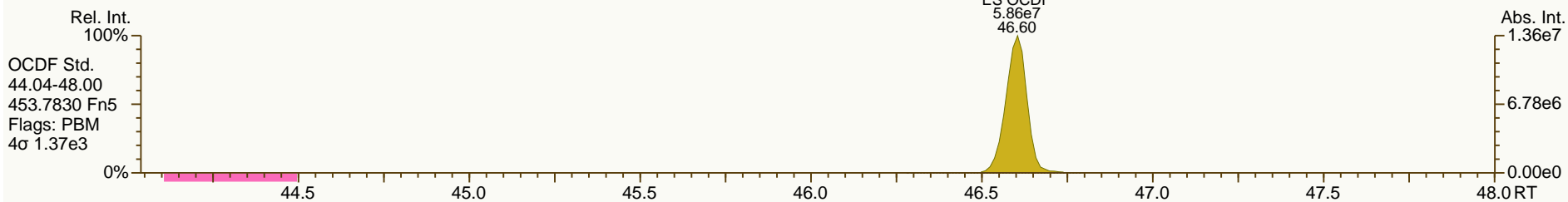
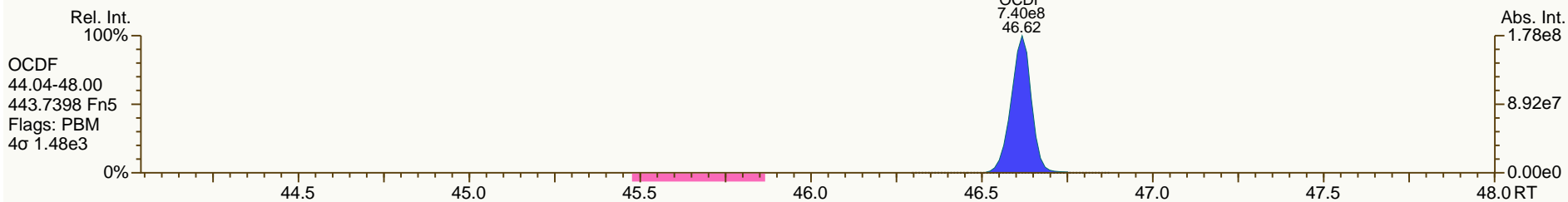
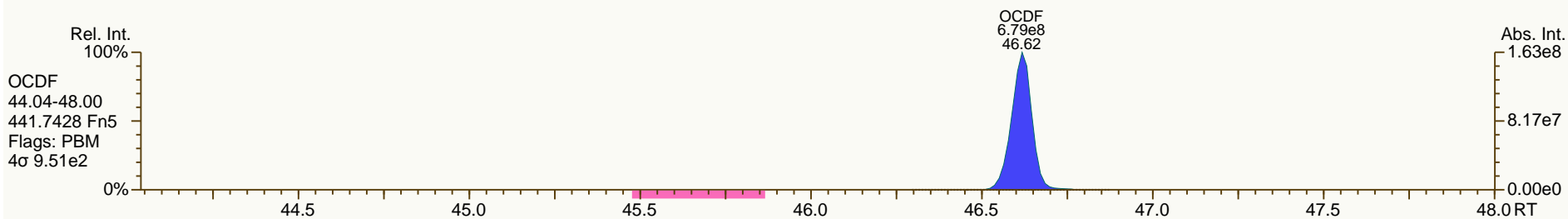
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SGS-AP ID: CS5
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 21

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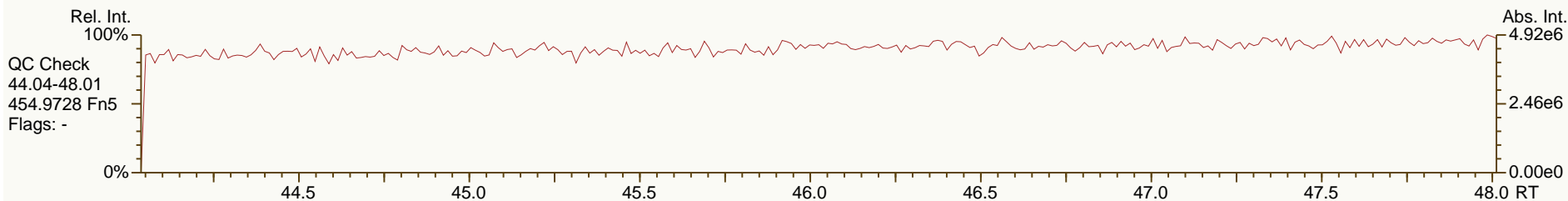
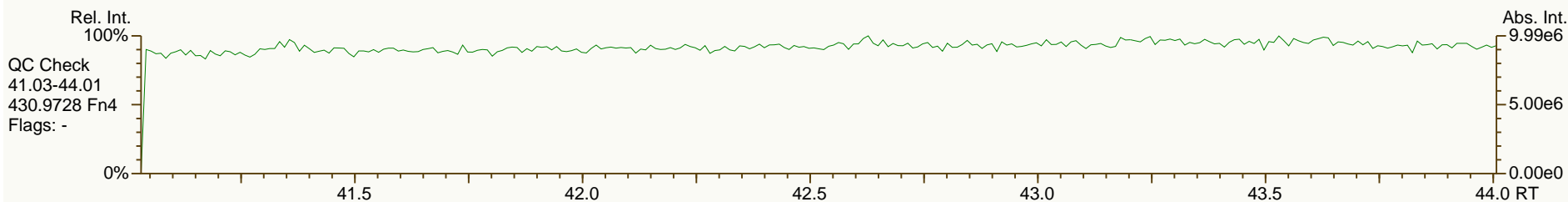
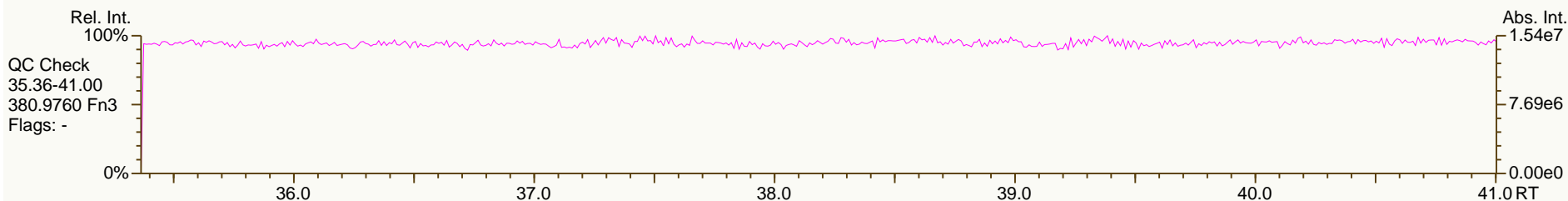
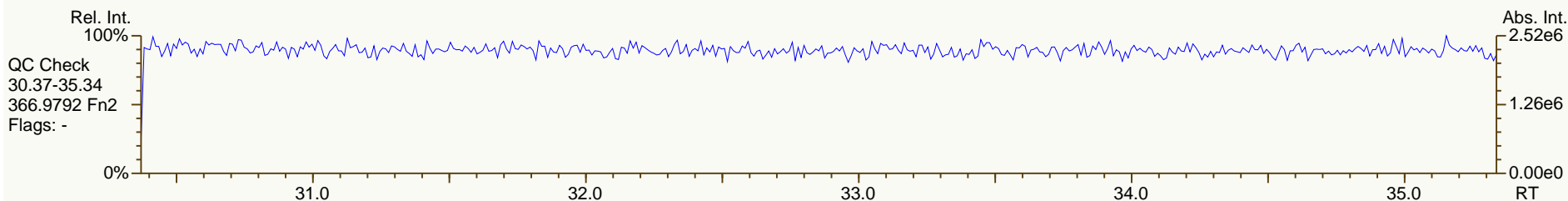
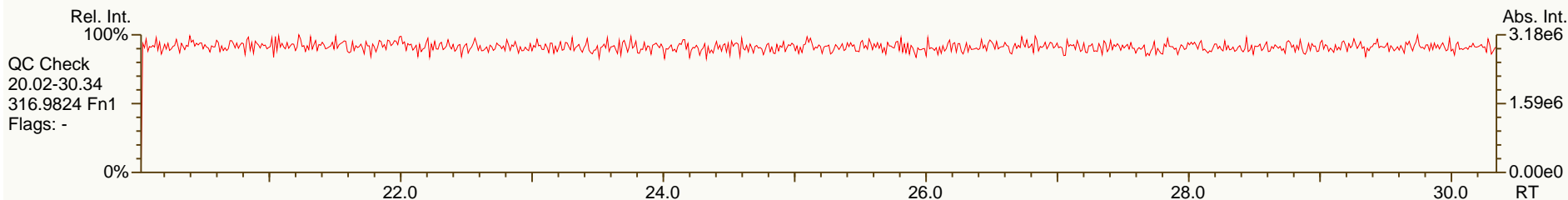


Dioxin/Furan QC Summary		Acq'd: 18 Sep 2013 16:54 MDC			ICAL: MM1_DF_11012012A_18SEPT2013		
Lab ID: CS6		UTP: 18-Sep-2013 17:51 MDC			Checkcode: 081-682-XSK		
Sample ID: 11012012A		Report: 19 Sep 2013 09:12 MC			Datafile: 130918P1-08		
Name	RT	Response	RA	OK	Ref. RRFs	Calc. RRFs	Dev'n
2378-TCDD	27.56	4.48E+08	0.80	Y	1.18	1.20	2%
12378-PeCDD	33.84	2.06E+09	1.59	Y	1.07	1.12	4%
123478-HxCDD	38.48	1.95E+09	1.28	Y	1.19	1.25	5%
123678-HxCDD	38.61	2.00E+09	1.28	Y	1.19	1.29	8%
123789-HxCDD	38.95	2.03E+09	1.27	Y	1.12	1.13	1%
1234678-HpCDD	42.63	1.78E+09	1.05	Y	1.08	1.13	5%
OCDD	46.38	2.73E+09	0.91	Y	1.14	1.20	5%
2378-TCDF	26.57	6.48E+08	0.77	Y	1.10	1.07	-2%
12378-PeCDF	32.10	3.57E+09	1.58	Y	1.17	1.26	8%
23478-PeCDF	33.42	3.50E+09	1.57	Y	1.14	1.23	7%
123478-HxCDF	37.31	3.23E+09	1.27	Y	1.34	1.40	5%
123678-HxCDF	37.48	3.39E+09	1.27	Y	1.23	1.29	5%
234678-HxCDF	38.26	3.20E+09	1.26	Y	1.26	1.33	6%
123789-HxCDF	39.37	2.76E+09	1.27	Y	1.23	1.29	5%
1234678-HpCDF	41.35	2.87E+09	1.04	Y	1.42	1.52	7%
1234789-HpCDF	43.23	2.43E+09	1.04	Y	1.39	1.48	7%
OCDF	46.62	3.88E+09	0.91	Y	1.11	1.16	5%
ES 2378-TCDD	27.53	7.45E+07	0.81	Y	1.02	1.06	4%
ES 12378-PeCDD	33.81	7.38E+07	1.59	Y	0.92	1.05	15%
ES 123478-HxCDD	38.47	6.25E+07	1.18	Y	1.02	1.14	11%
ES 123678-HxCDD	38.60	6.19E+07	1.17	Y	1.01	1.13	12%
ES 123789-HxCDD	38.93	7.22E+07	1.21	Y	1.14	1.31	15%
ES 1234678-HpCDD	42.61	6.26E+07	1.07	Y	1.02	1.14	11%
ES OCDD	46.37	9.11E+07	0.89	Y	0.72	0.83	15%
ES 2378-TCDF	26.55	1.21E+08	0.78	Y	1.01	1.05	4%
ES 12378-PeCDF	32.08	1.14E+08	1.48	Y	0.89	0.99	12%
ES 23478-PeCDF	33.41	1.14E+08	1.45	Y	0.91	0.99	10%
ES 123478-HxCDF	37.29	9.19E+07	0.53	Y	1.53	1.67	9%
ES 123678-HxCDF	37.46	1.05E+08	0.53	Y	1.73	1.92	11%
ES 234678-HxCDF	38.24	9.60E+07	0.54	Y	1.61	1.75	8%
ES 123789-HxCDF	39.35	8.54E+07	0.54	Y	1.39	1.55	12%
ES 1234678-HpCDF	41.34	7.56E+07	0.44	Y	1.20	1.38	15%
ES 1234789-HpCDF	43.22	6.55E+07	0.44	Y	1.07	1.19	11%
ES OCDF	46.61	1.34E+08	0.92	Y	1.04	1.22	16%

SGS-AP ID: CS6
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

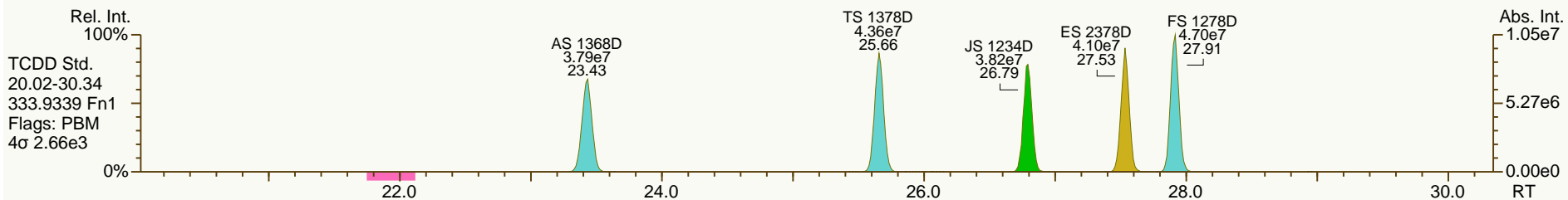
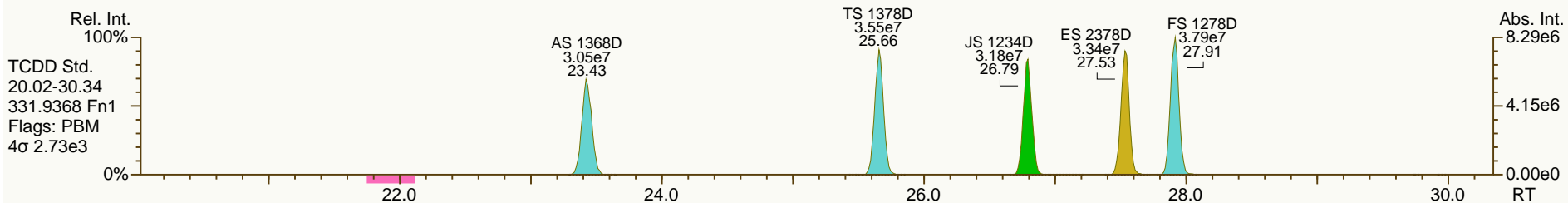
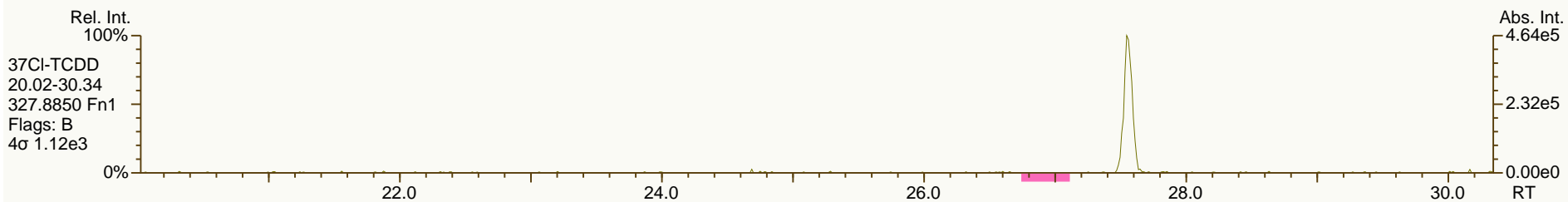
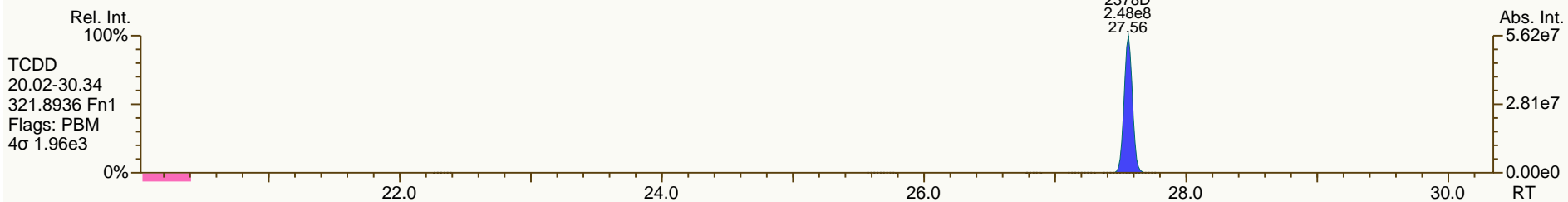
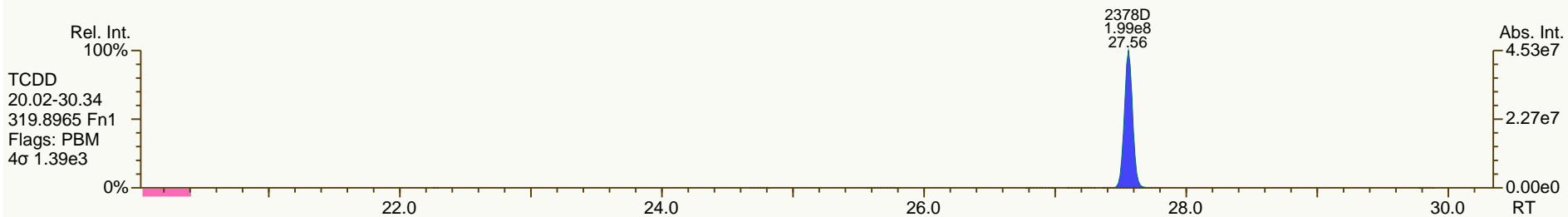
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User: MDC Datafile: 130918P1-08



SGS-AP ID: CS6
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

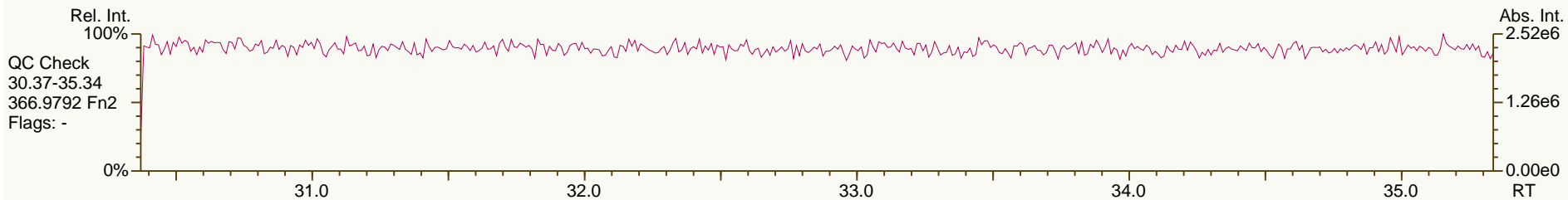
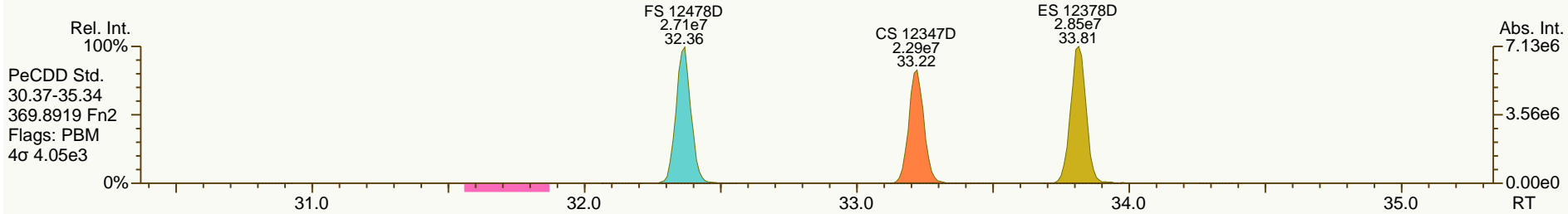
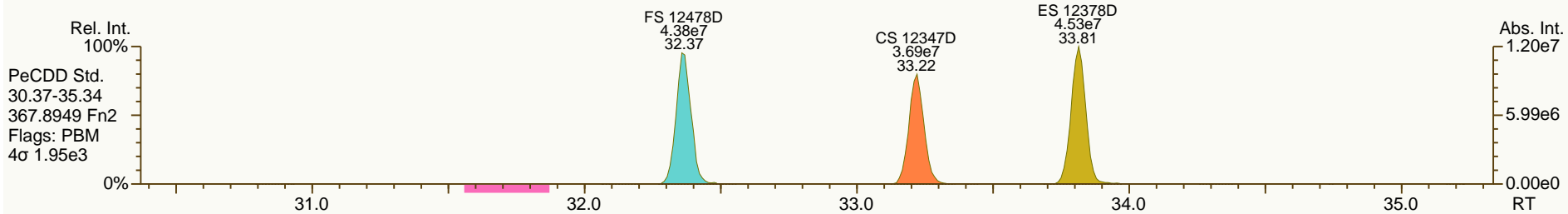
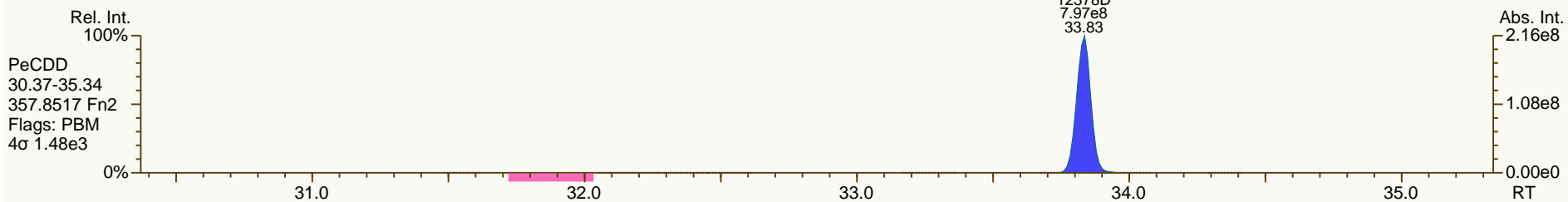
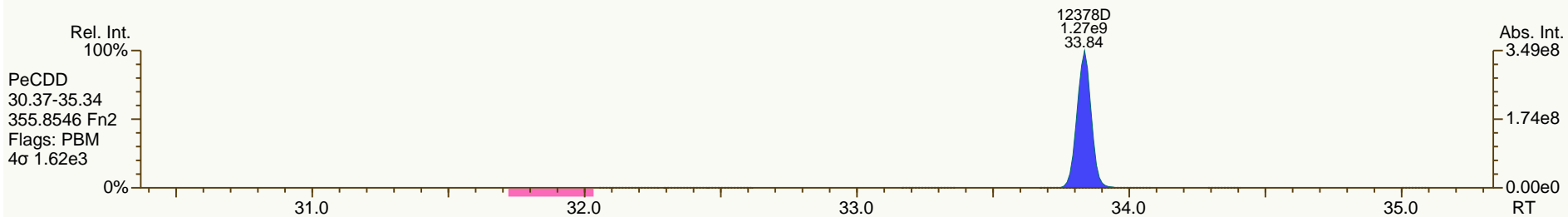
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SGS-AP ID: CS6
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

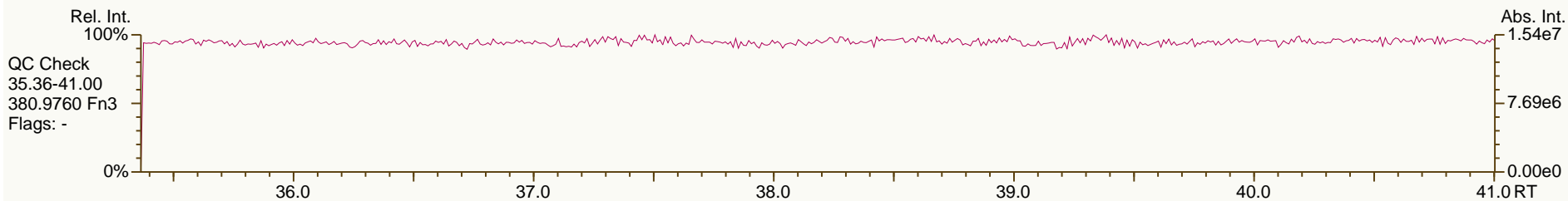
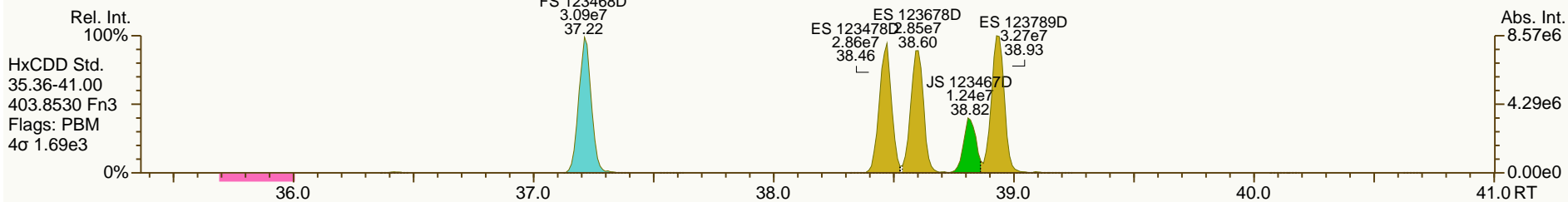
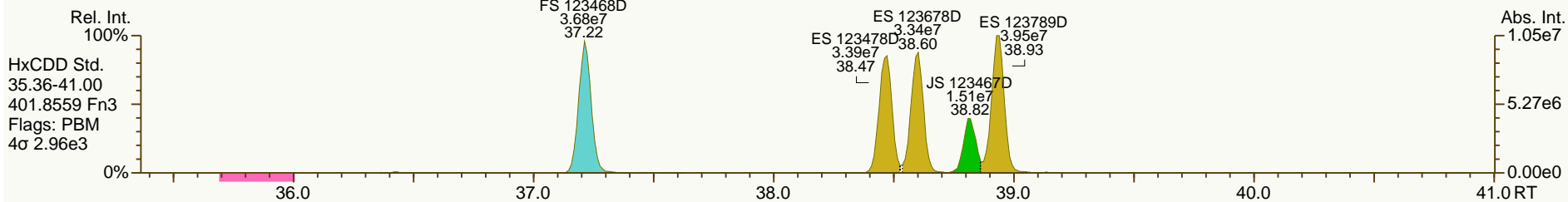
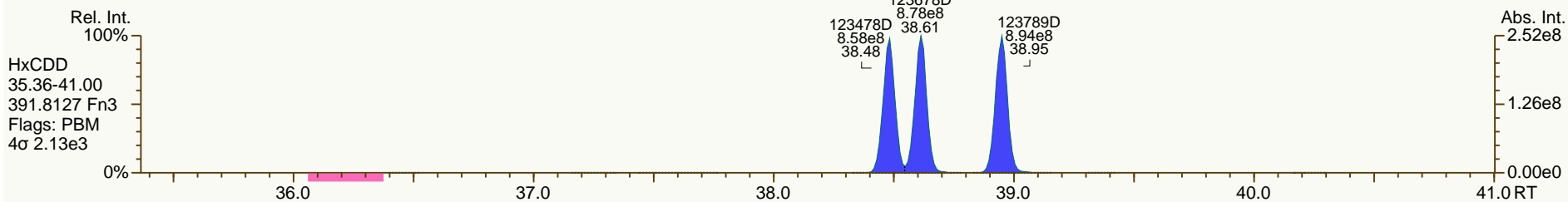
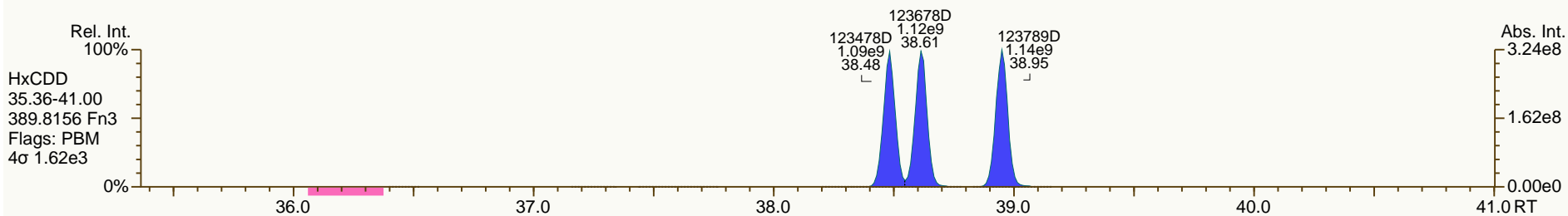
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SGS-AP ID: CS6
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

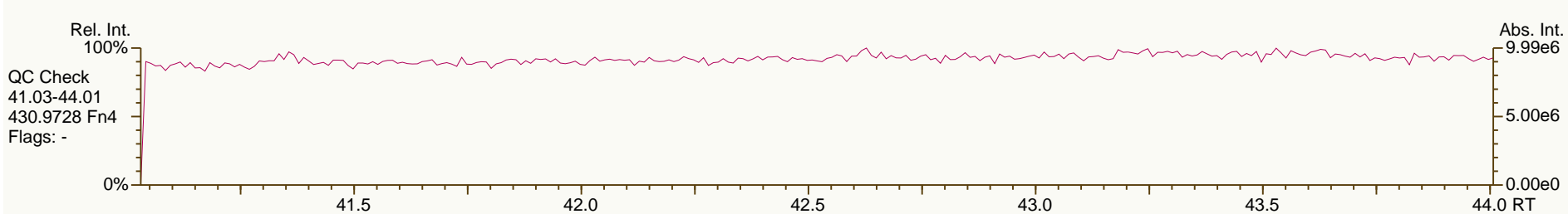
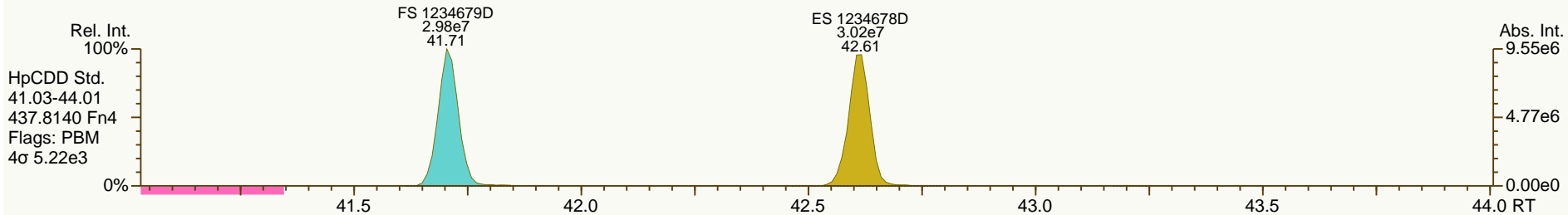
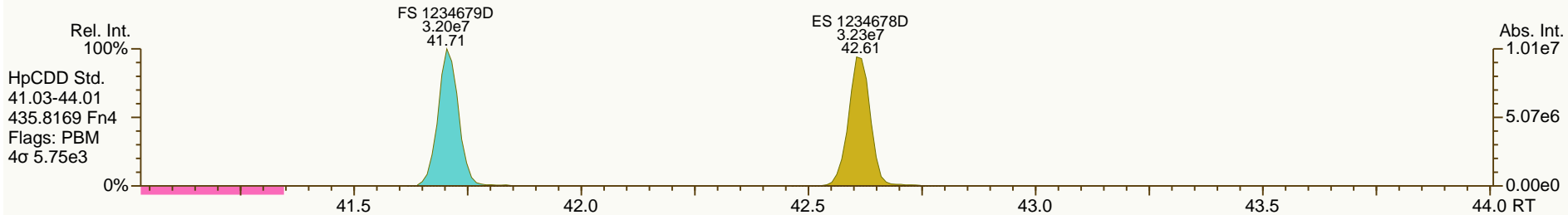
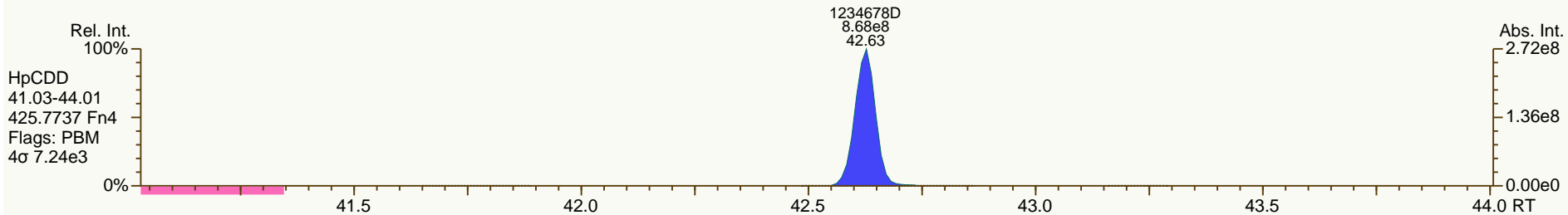
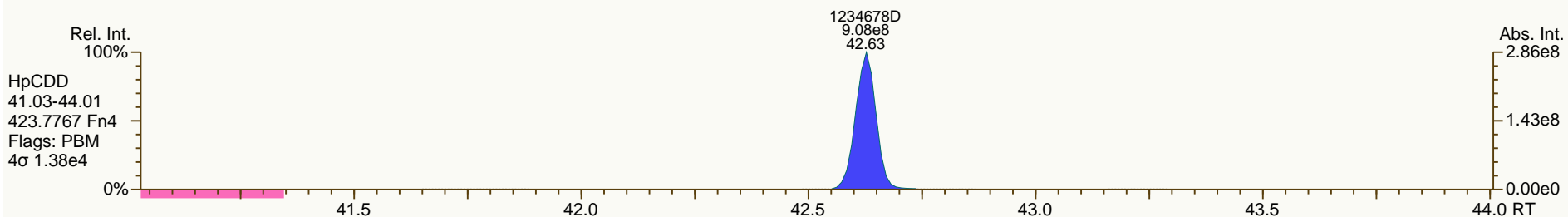
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SGS-AP ID: CS6
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

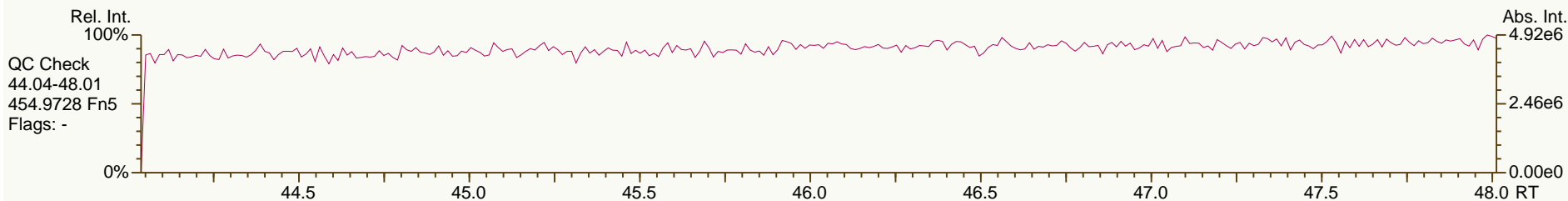
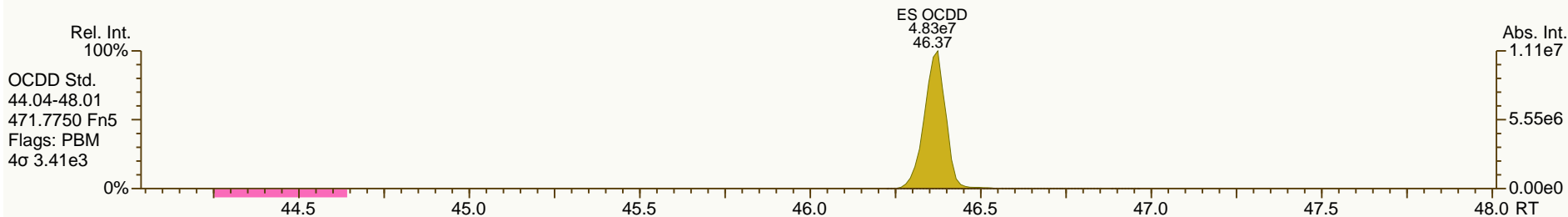
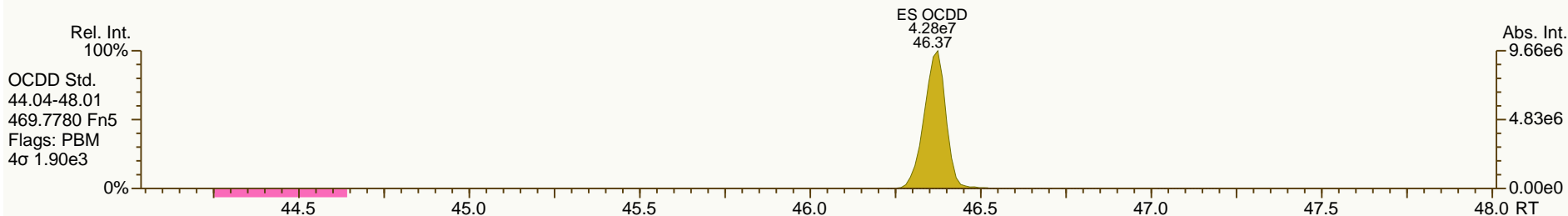
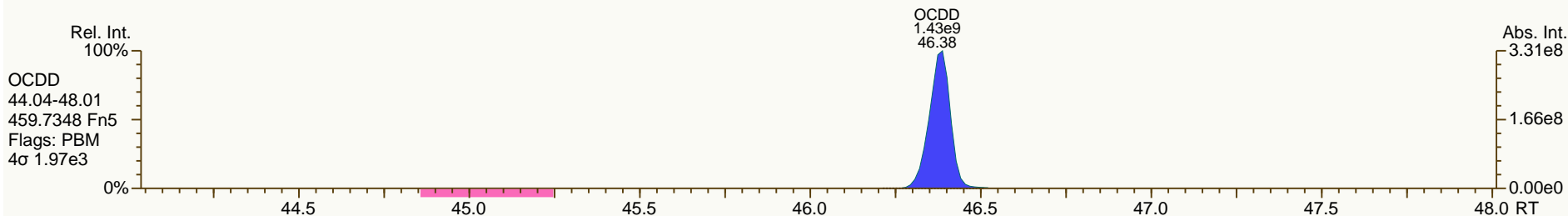
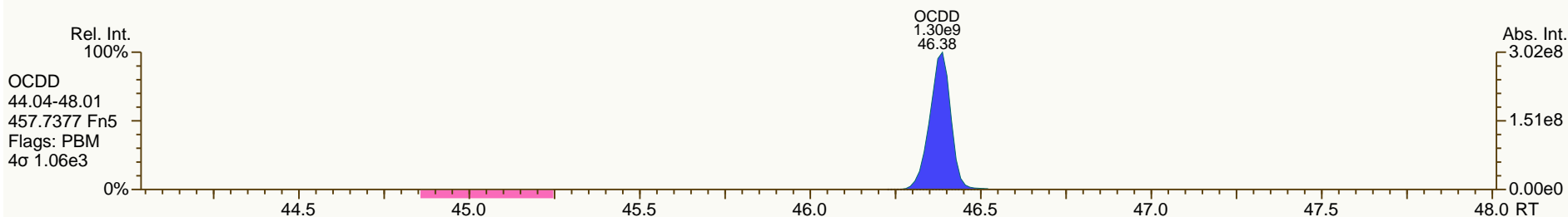
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SGS-AP ID: CS6
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

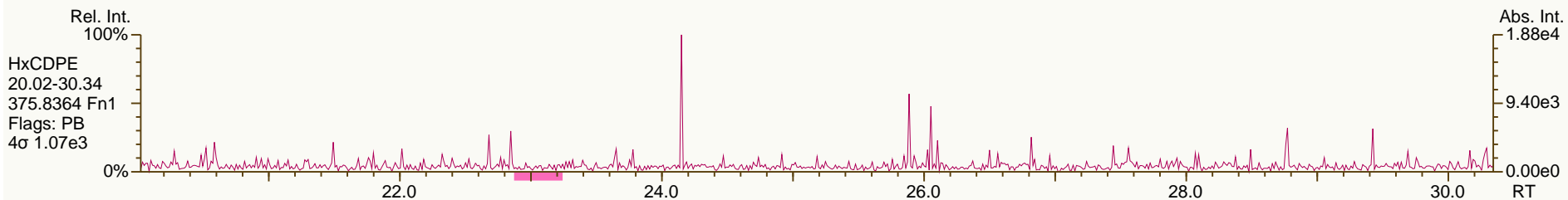
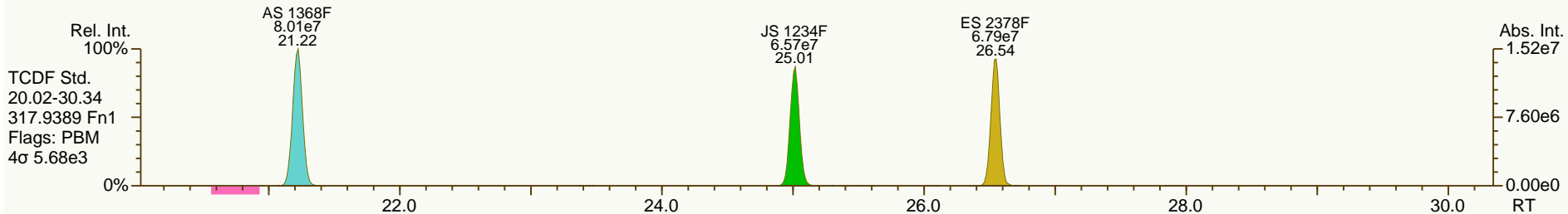
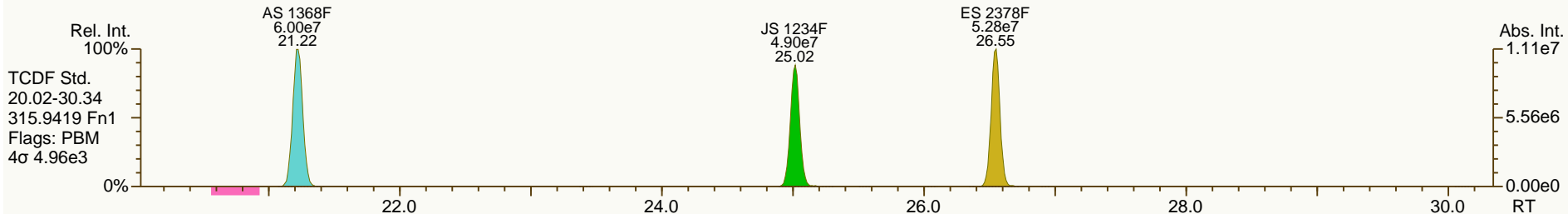
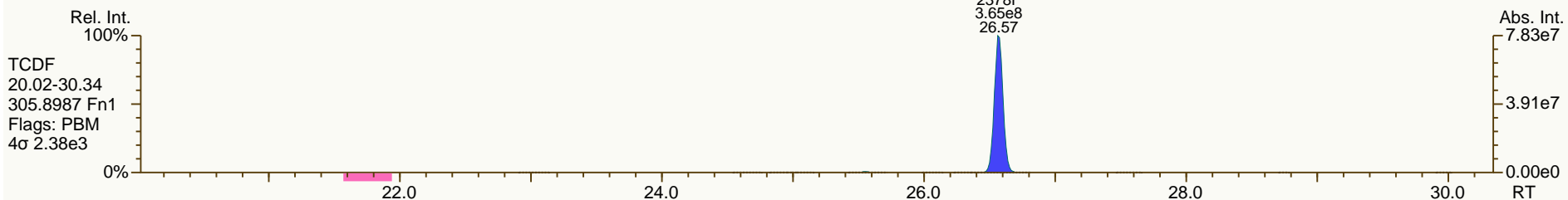
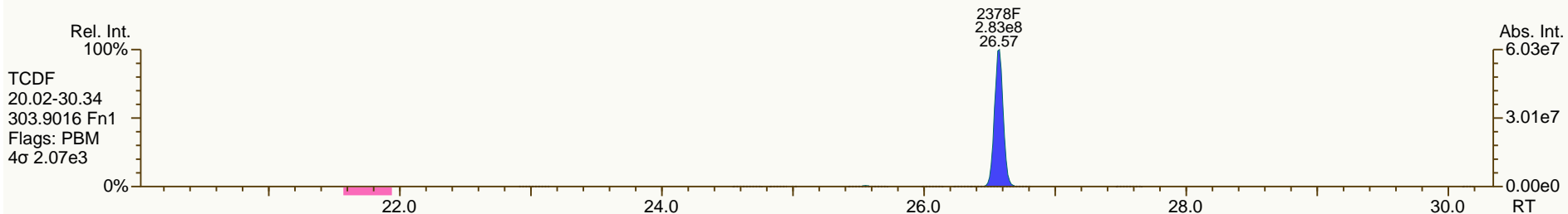
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SGS-AP ID: CS6
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

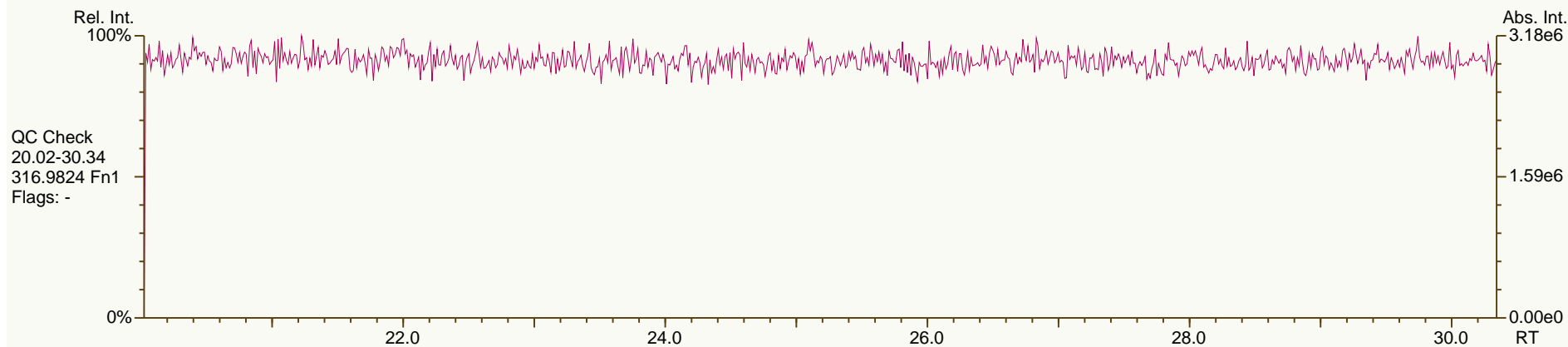
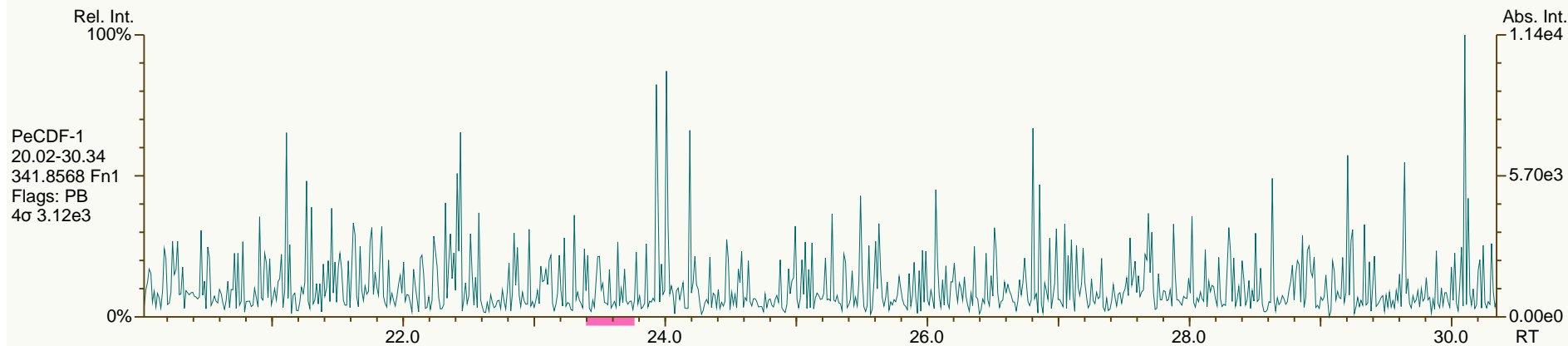
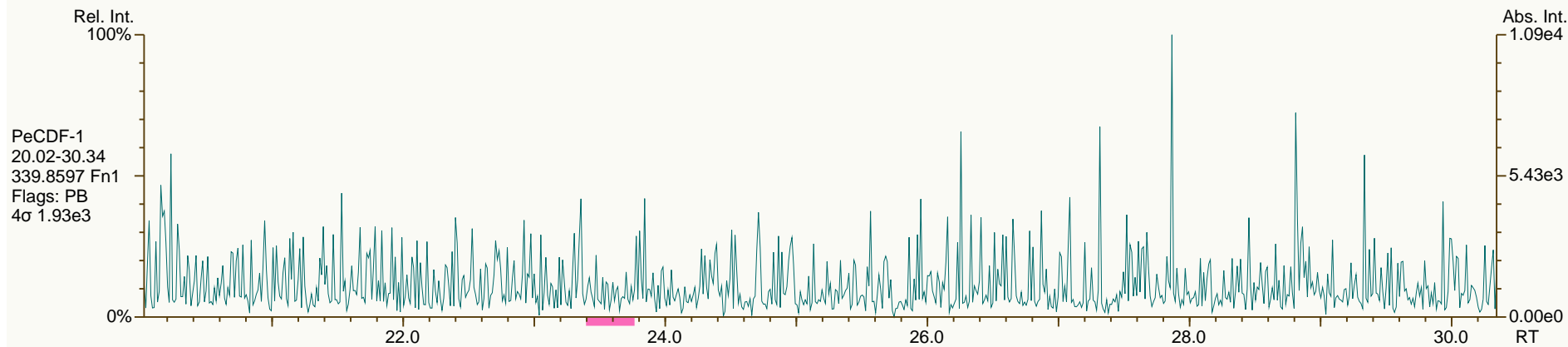
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SGS-AP ID: CS6
Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

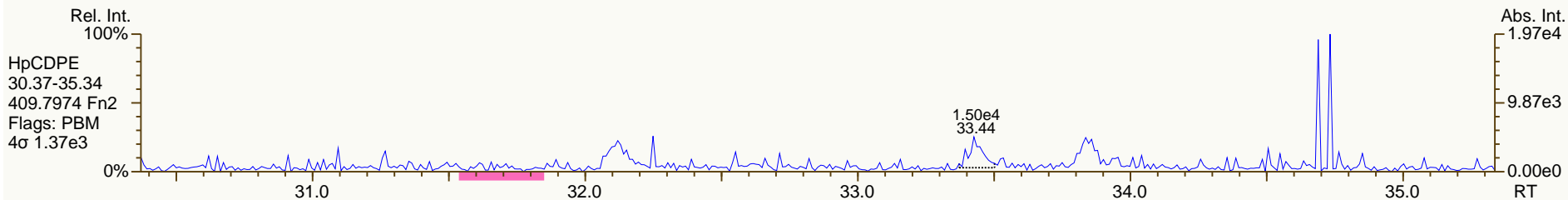
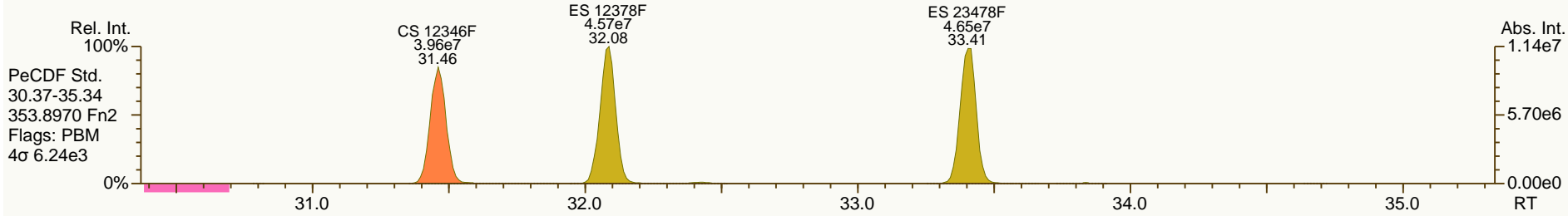
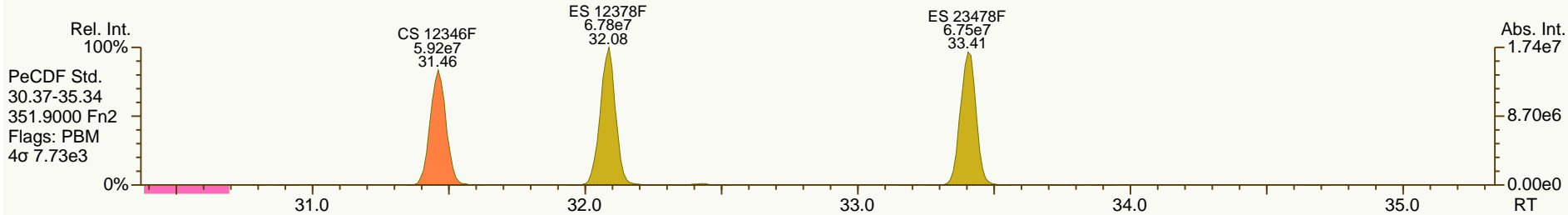
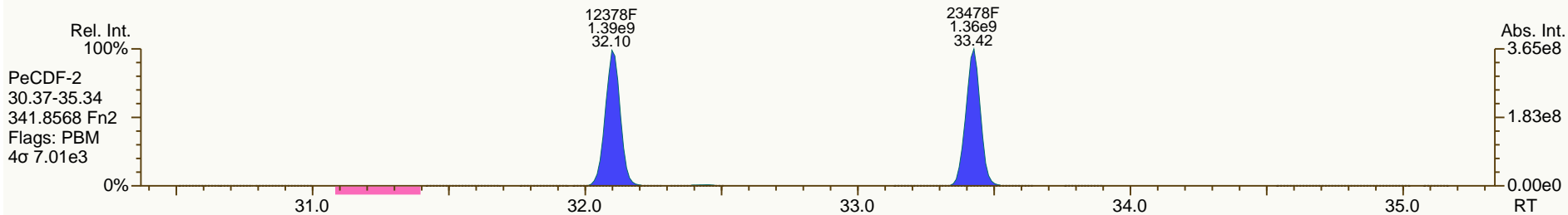
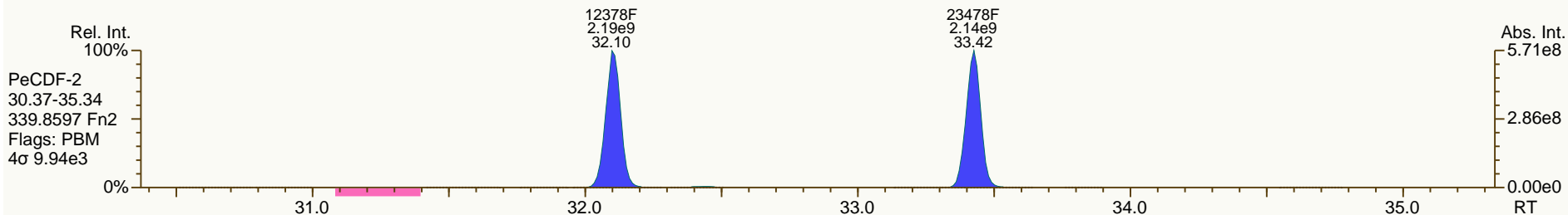
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SGS-AP ID: CS6
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

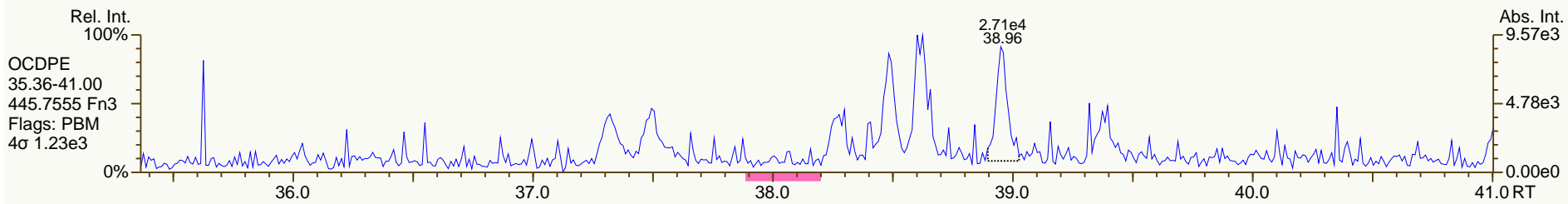
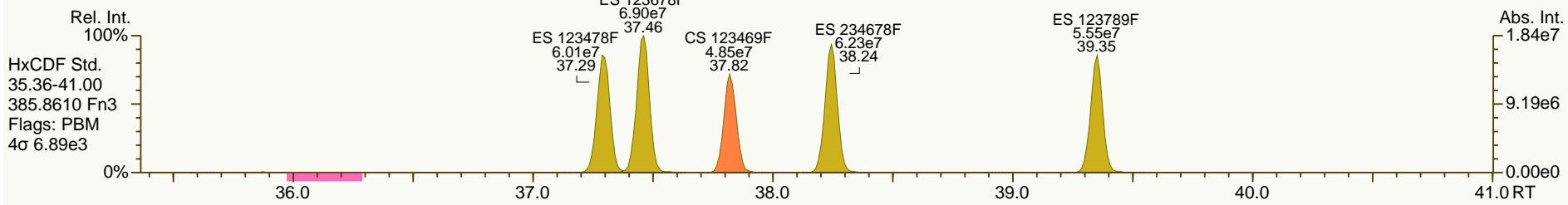
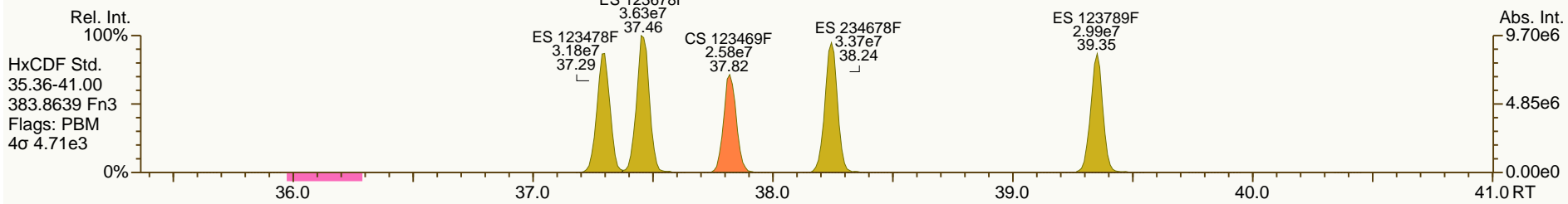
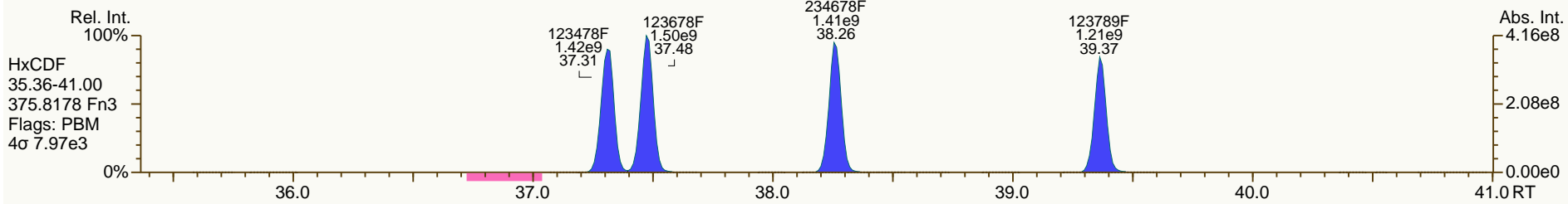
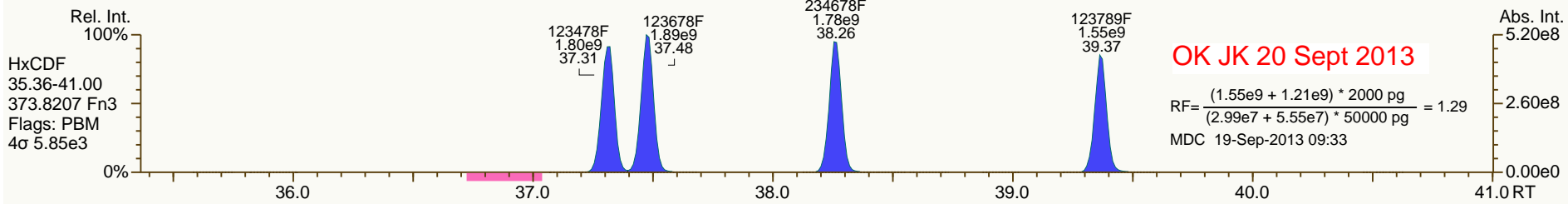
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SGS-AP ID: CS6
 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

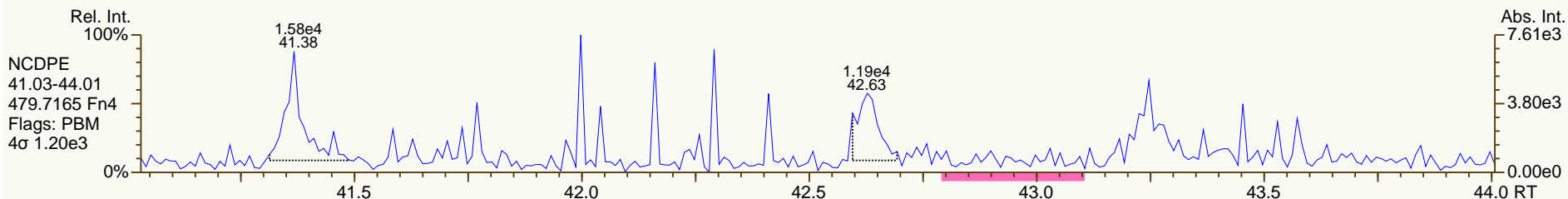
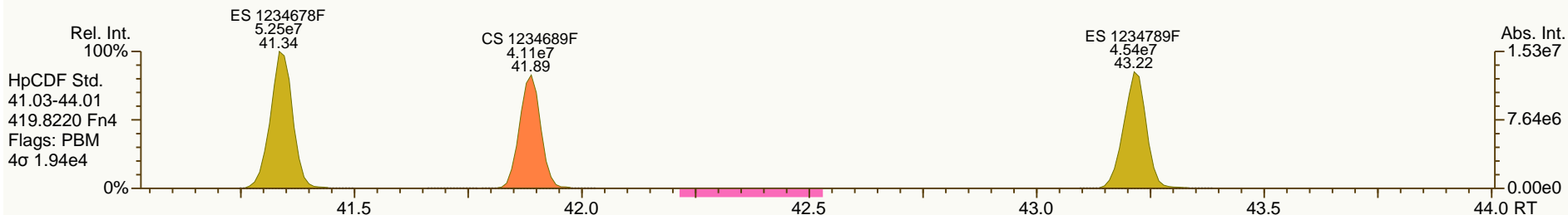
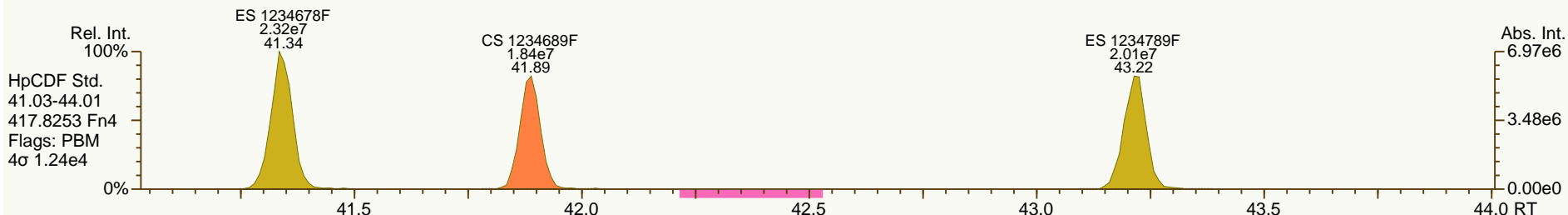
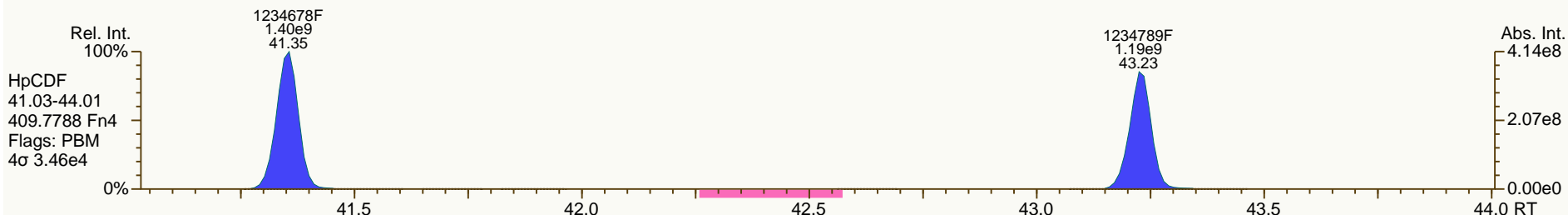
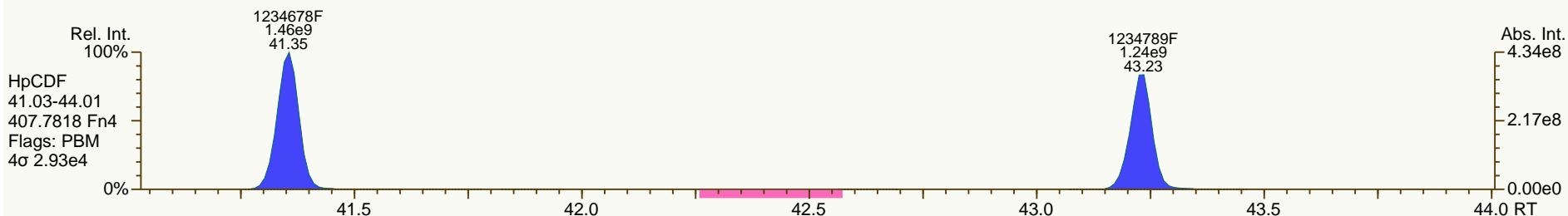
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 Instr: AutoSpec-Ultima MM1

Sample ID: 11012012A
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

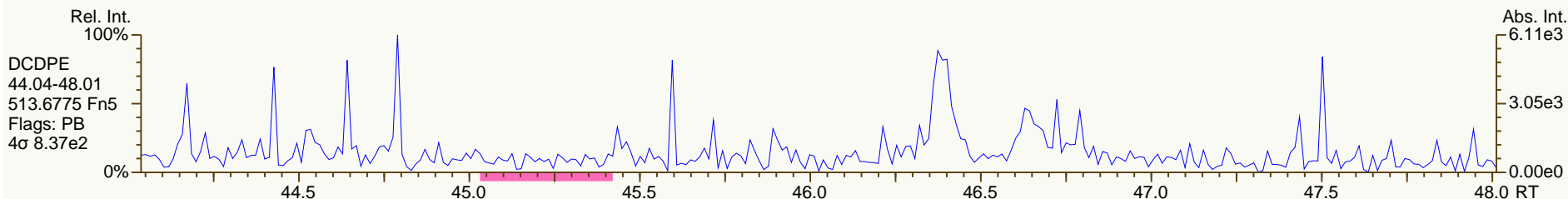
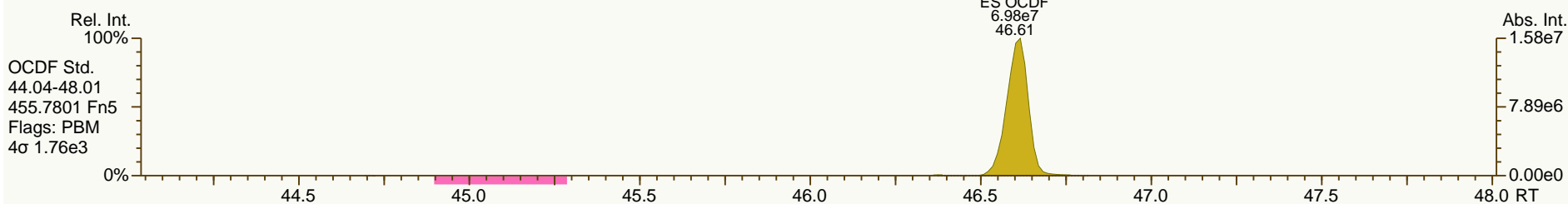
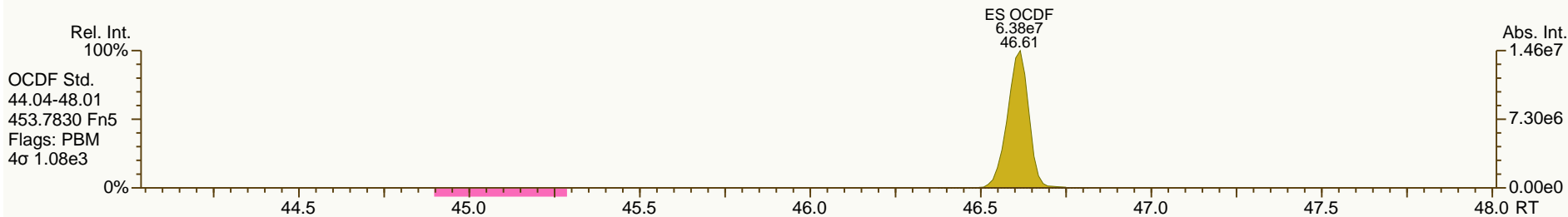
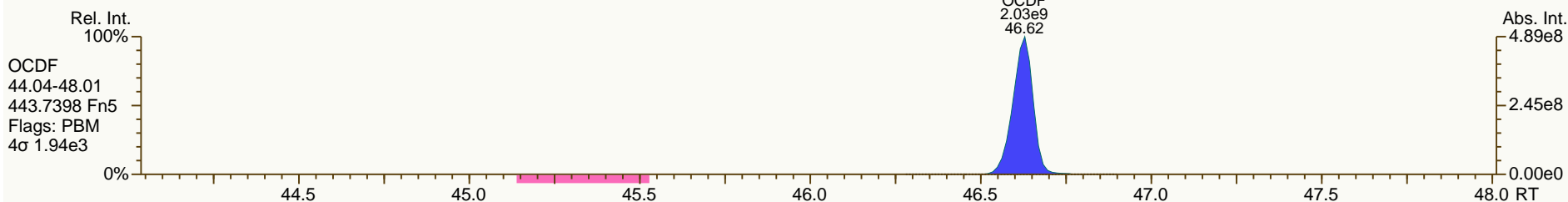
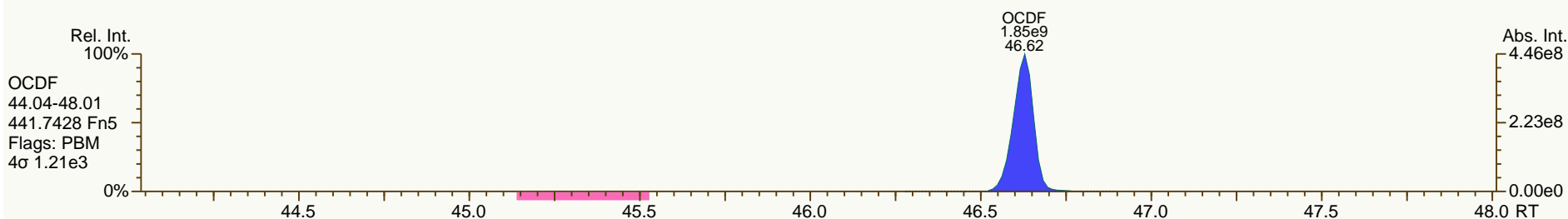
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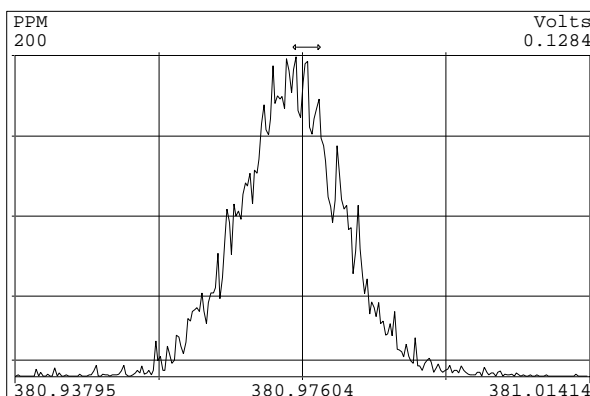
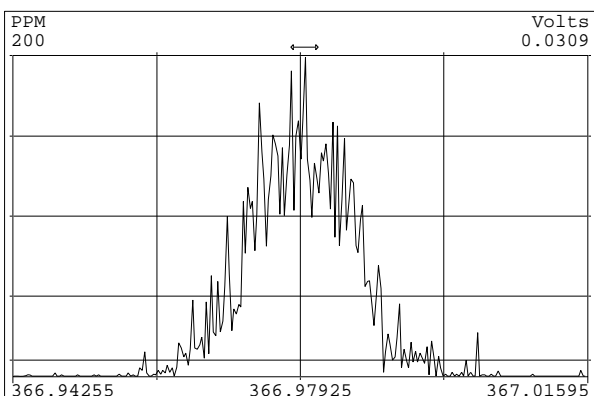
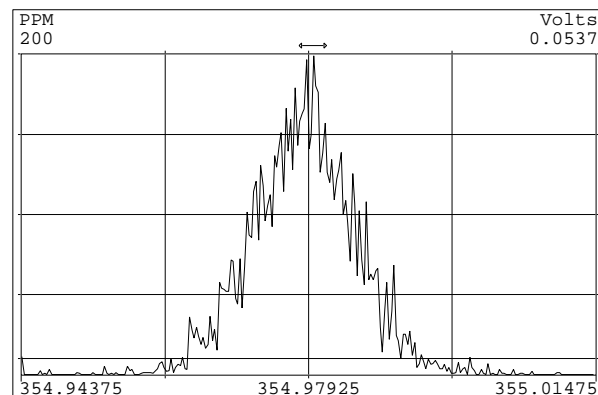
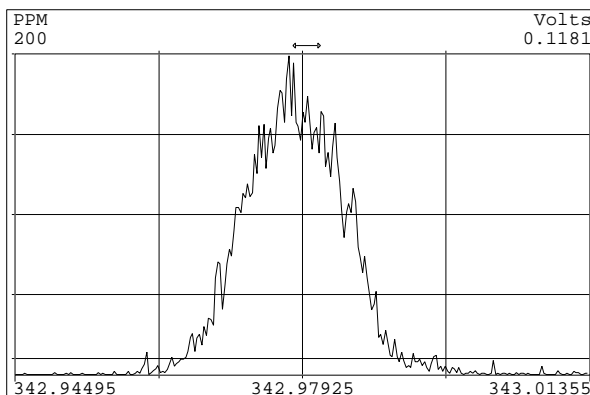
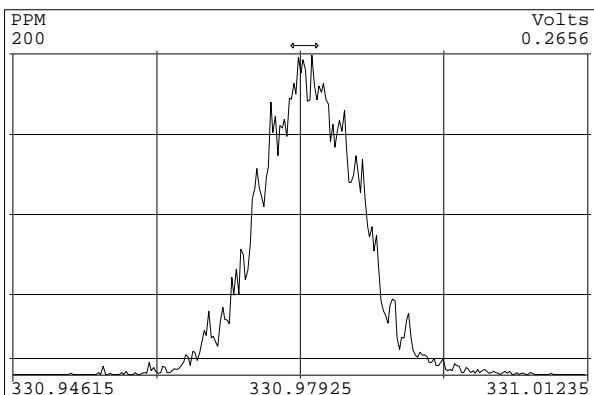
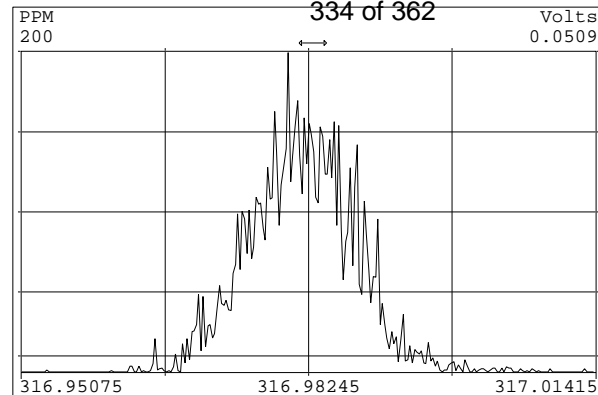
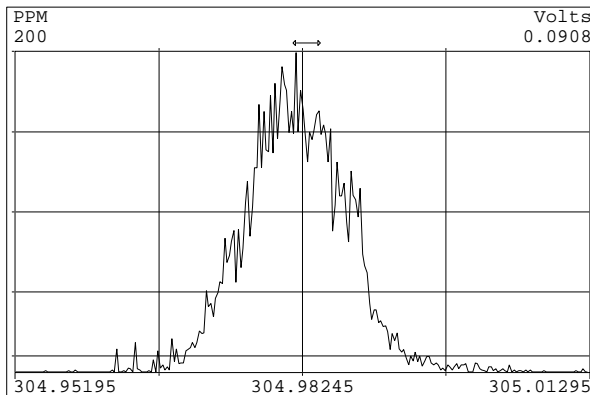
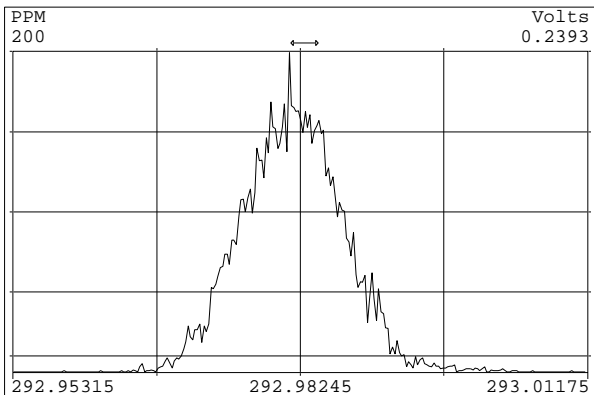


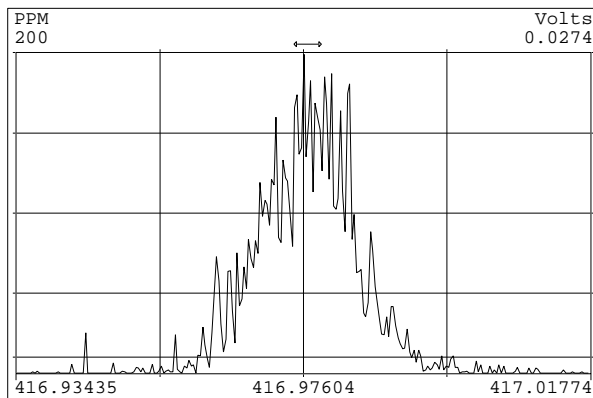
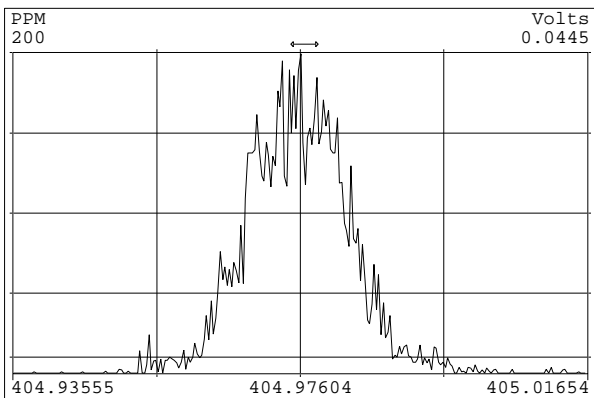
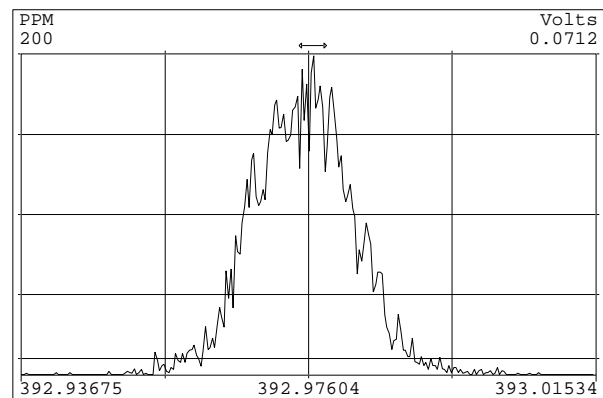
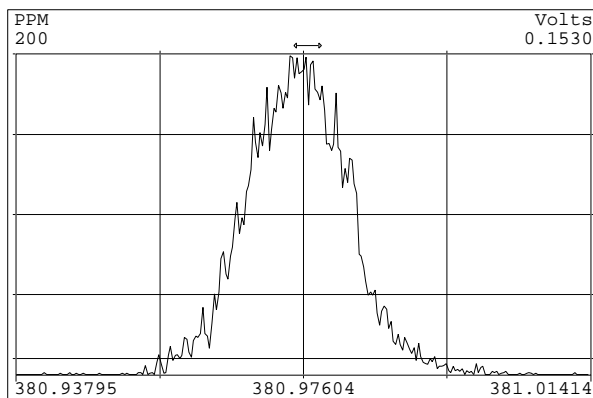
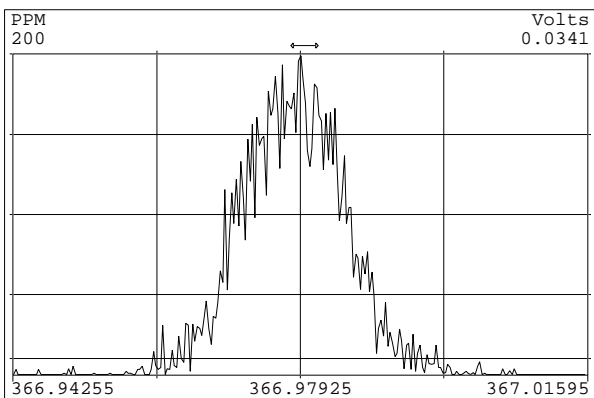
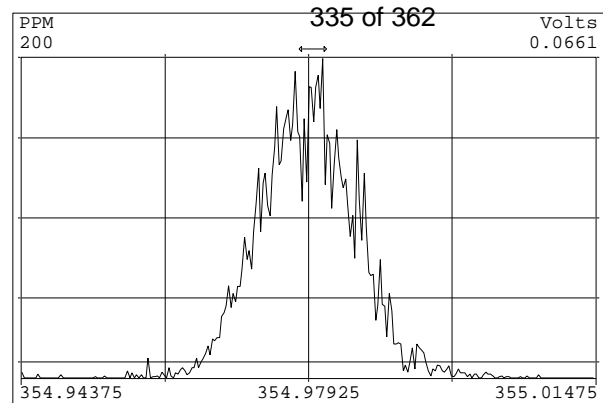
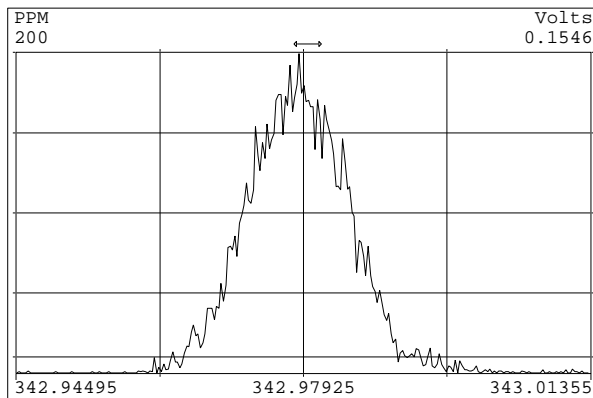
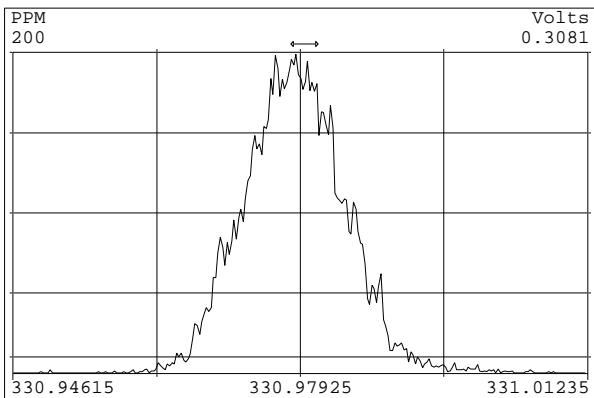
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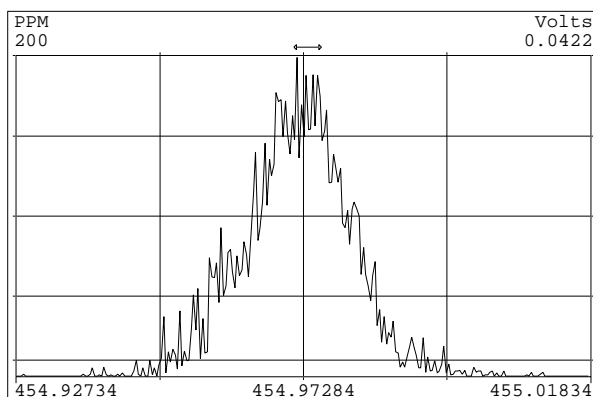
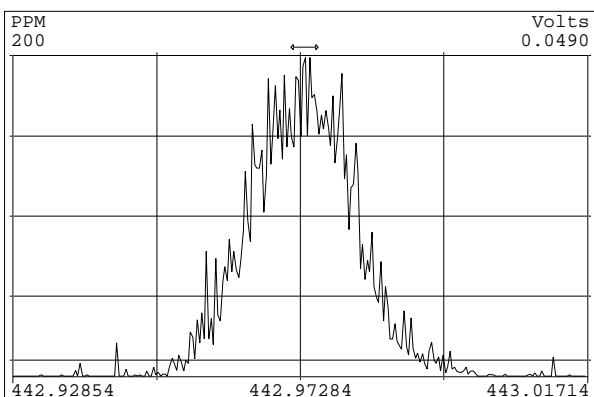
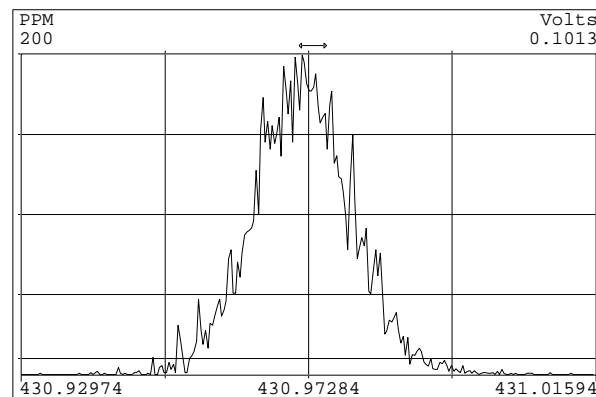
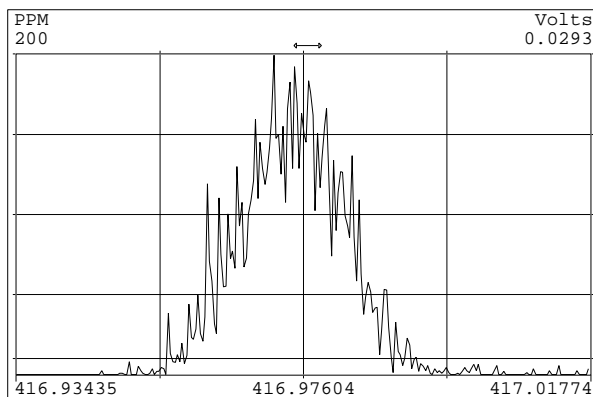
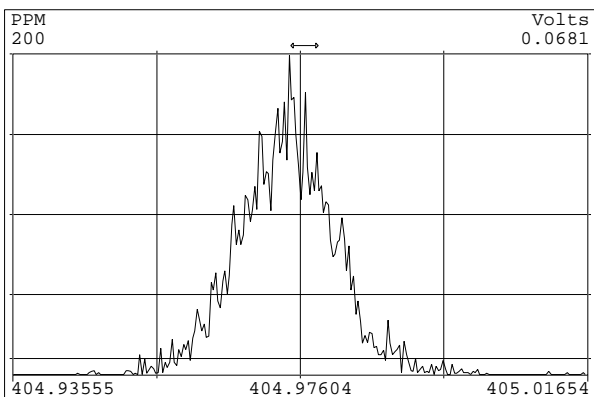
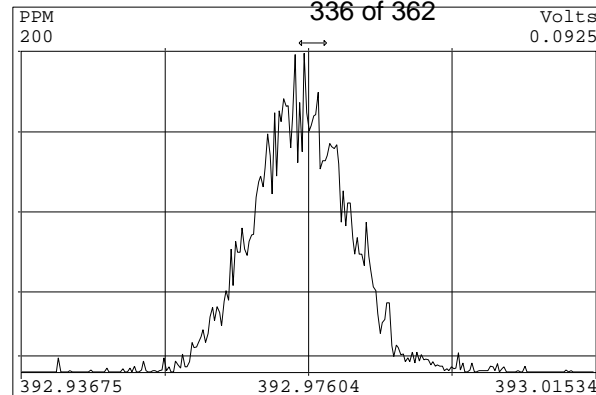
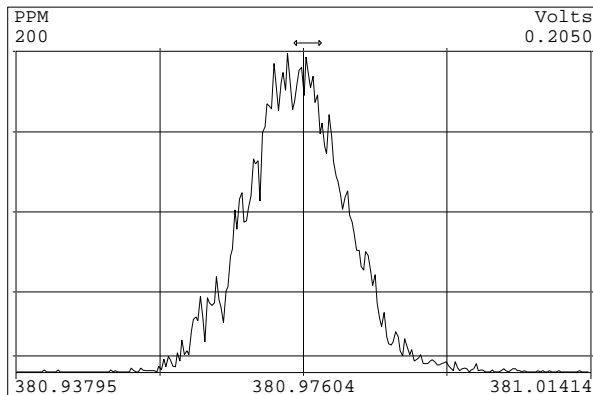
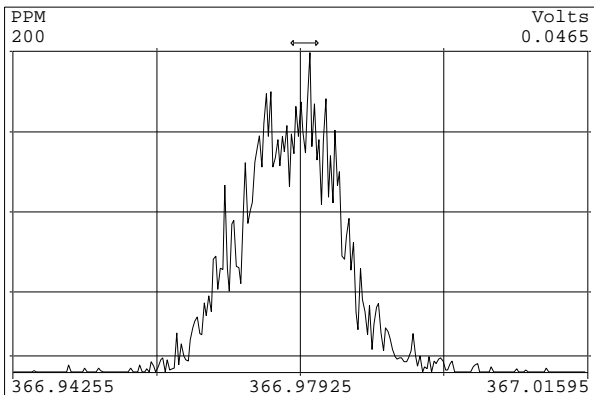
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SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 22

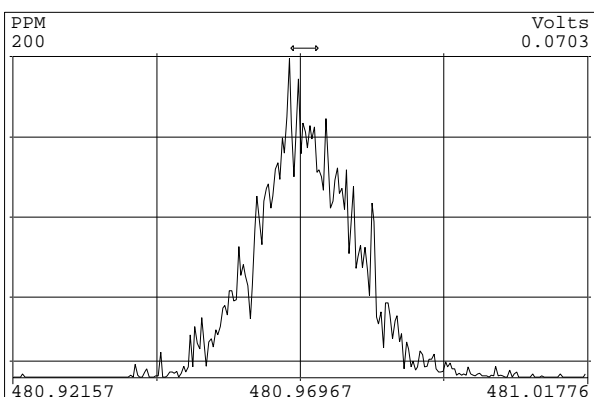
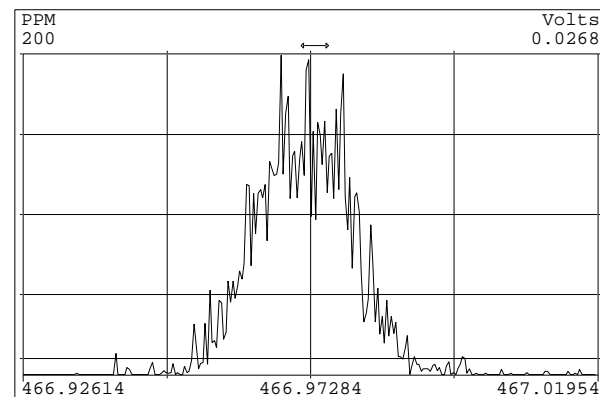
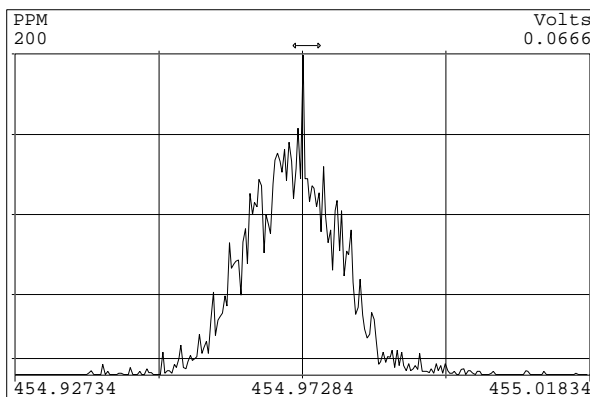
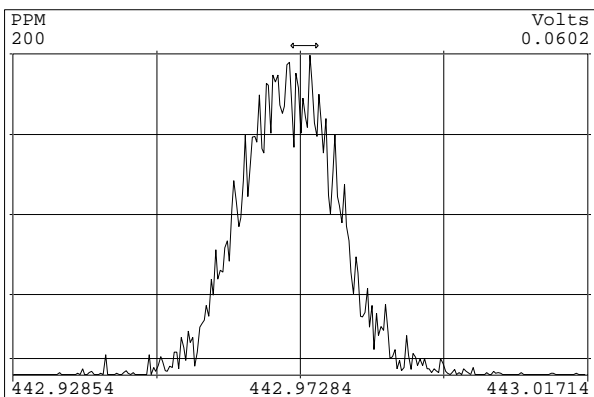
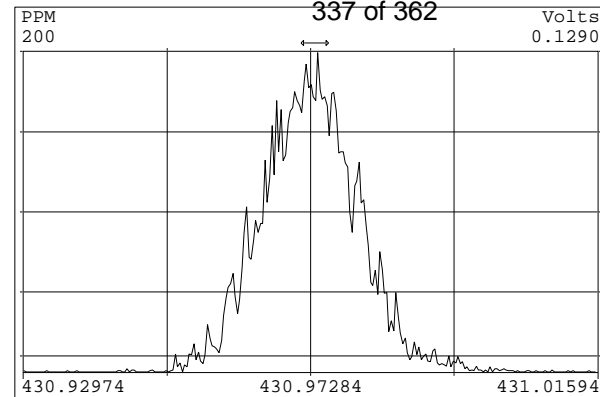
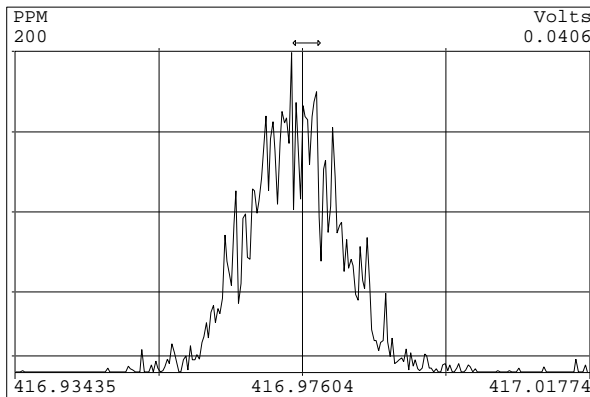
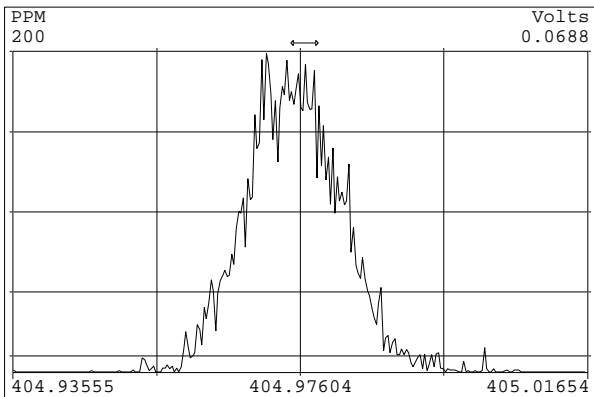
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User: MDC Datafile: 130918P1-08

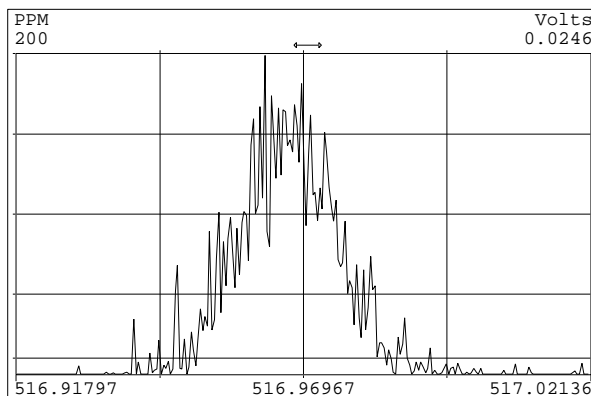
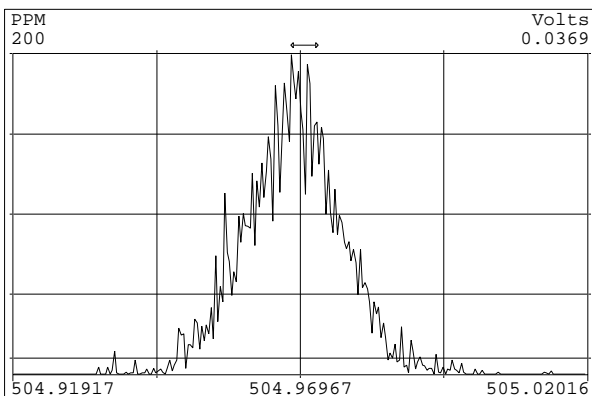
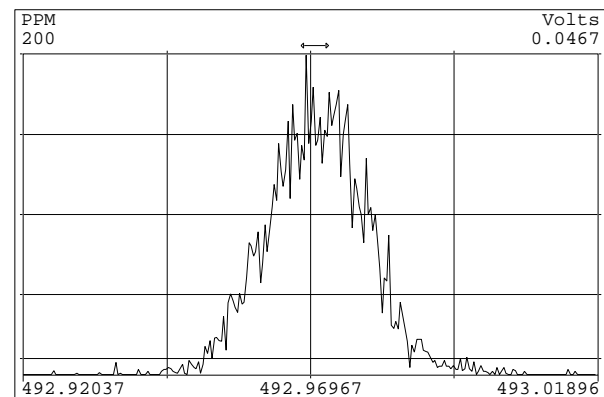
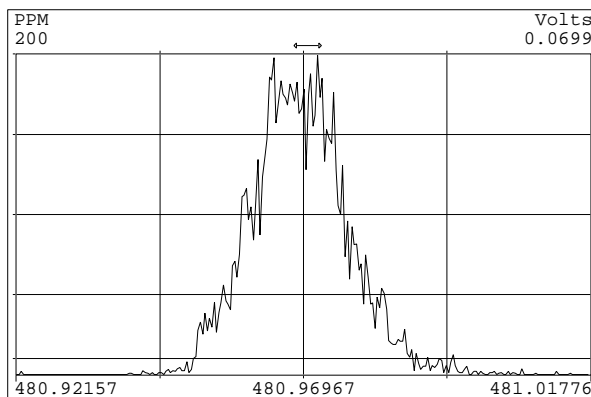
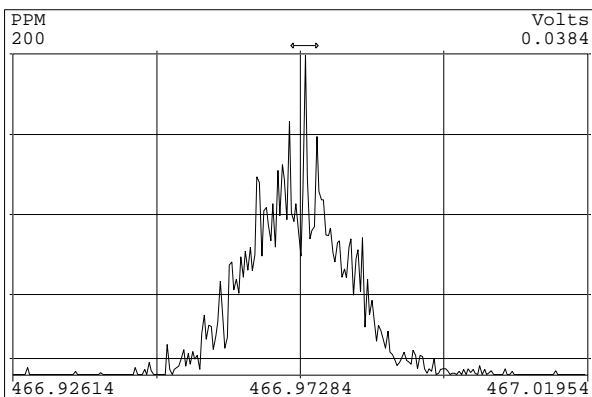
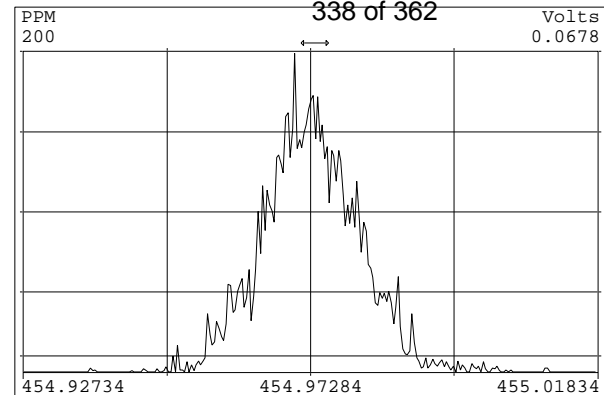
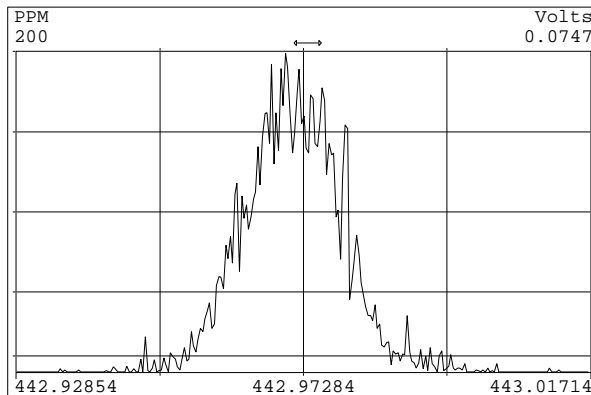
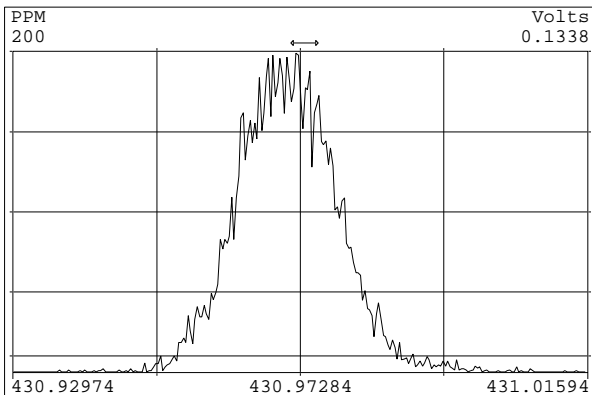


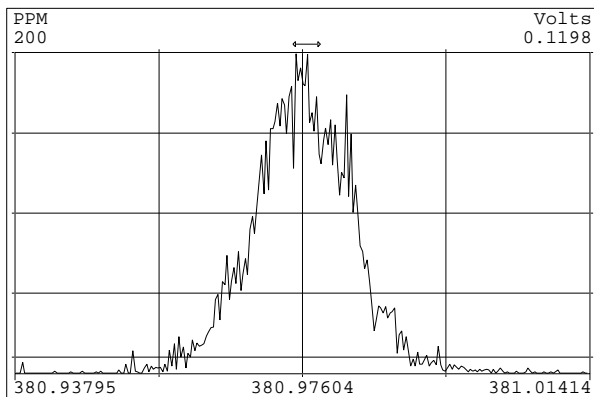
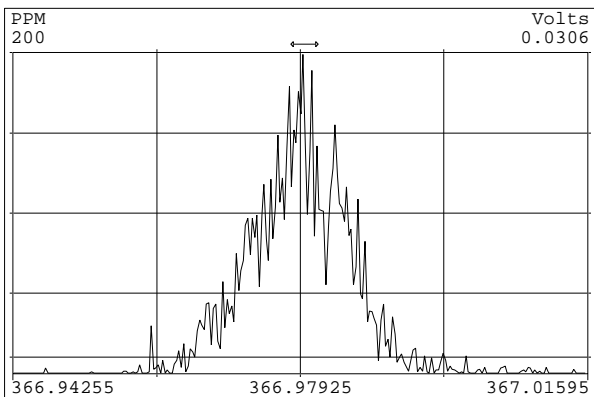
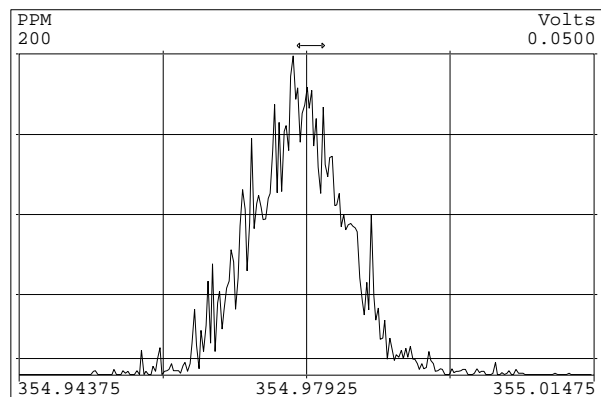
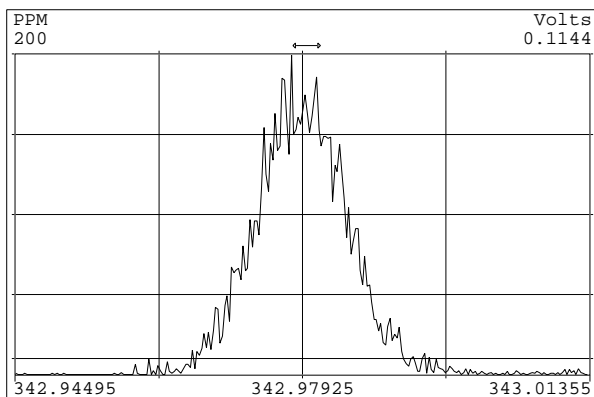
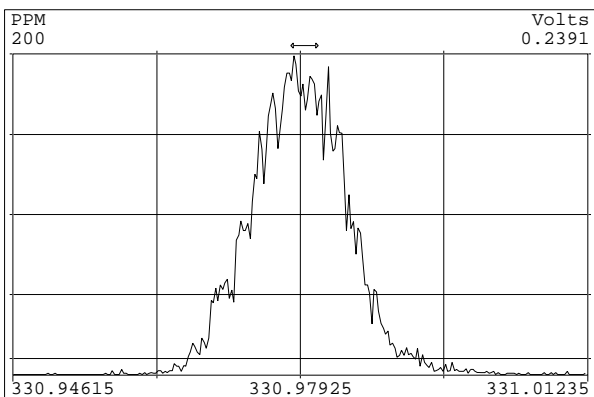
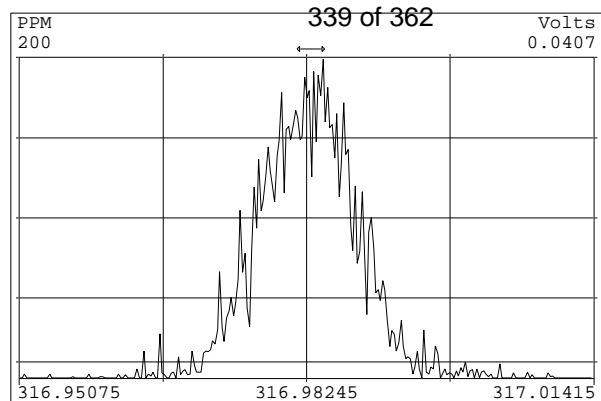
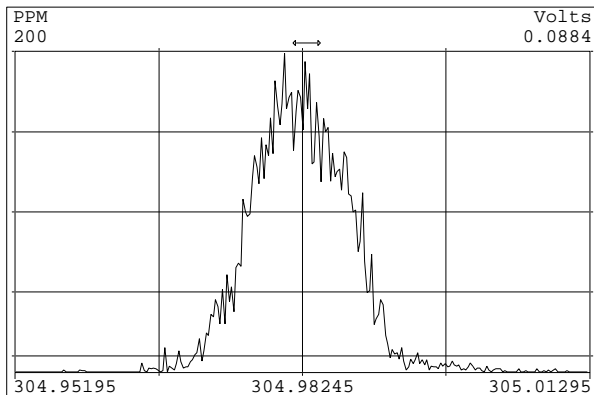
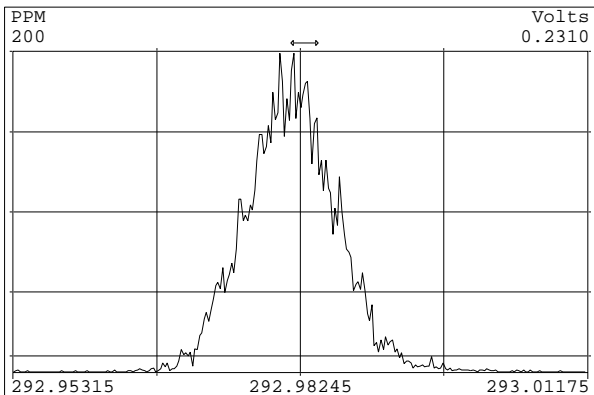


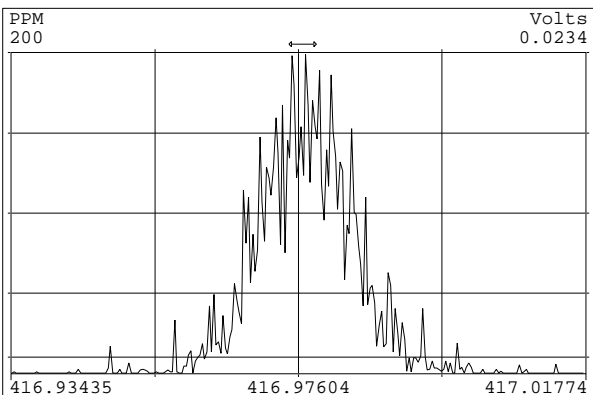
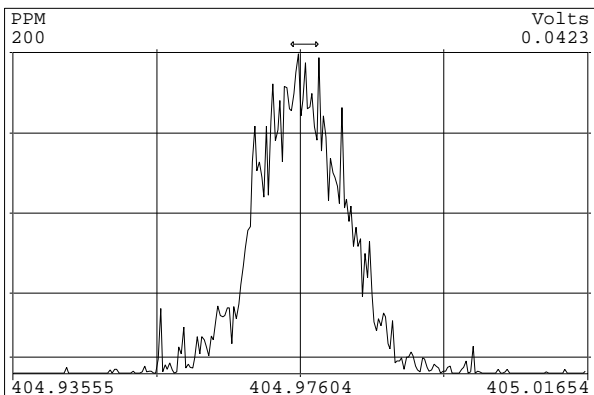
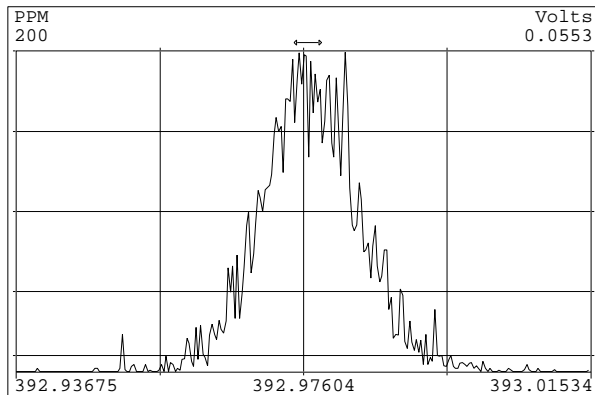
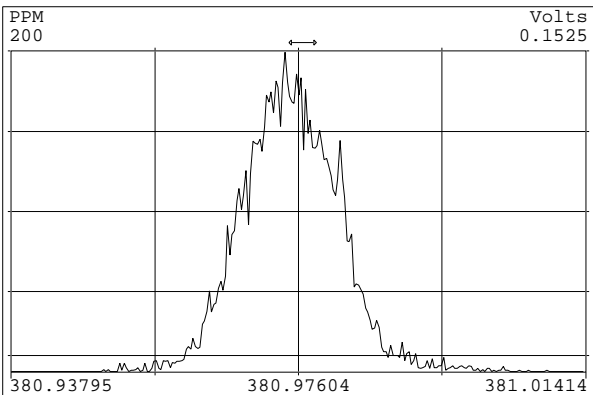
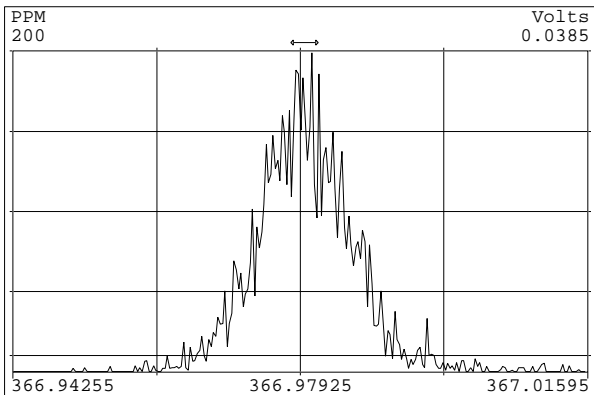
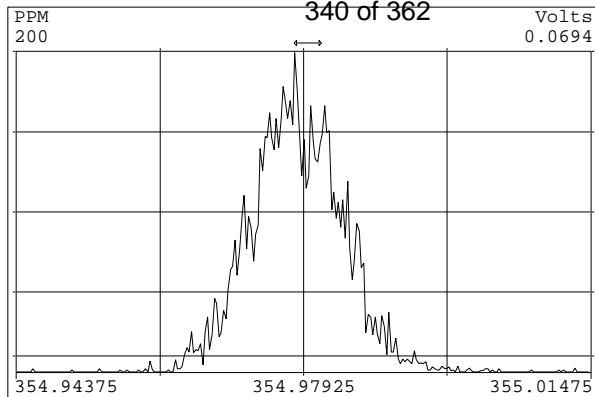
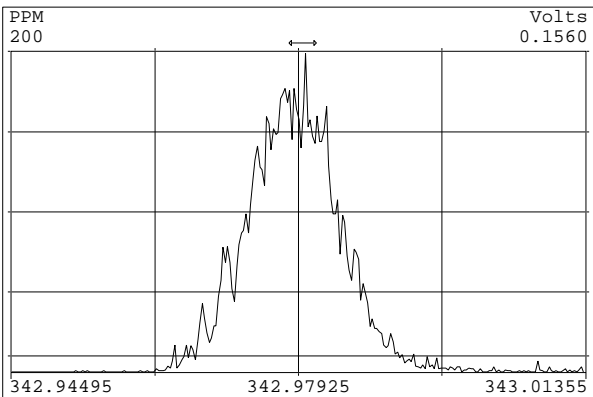
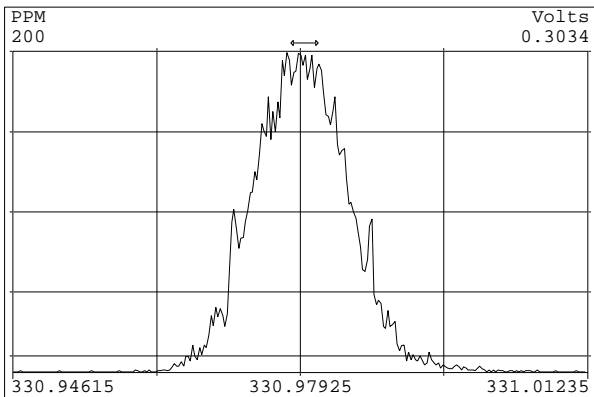


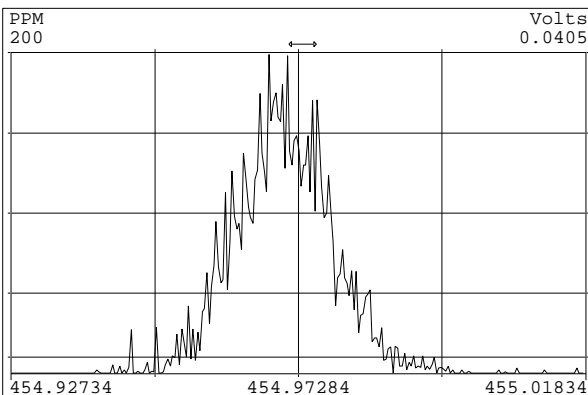
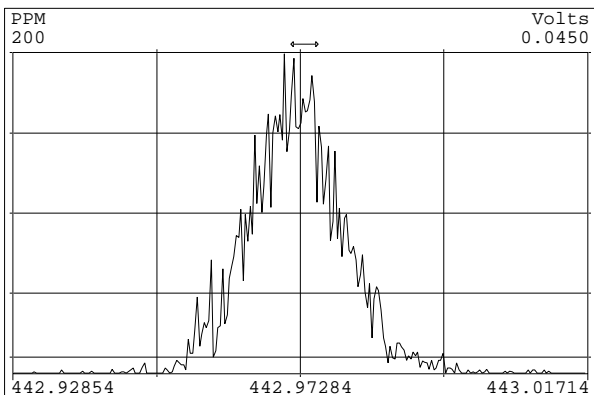
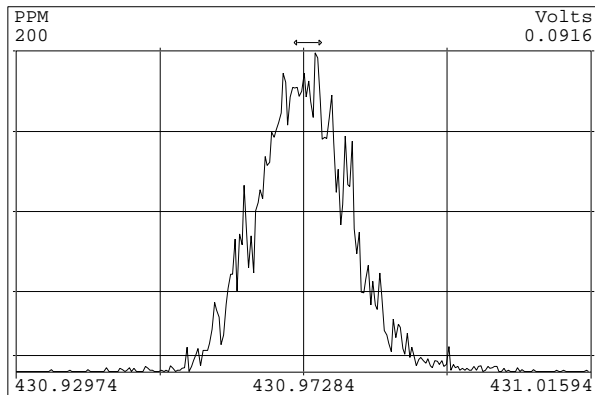
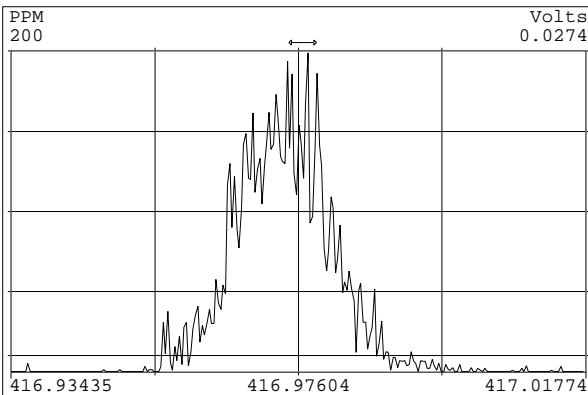
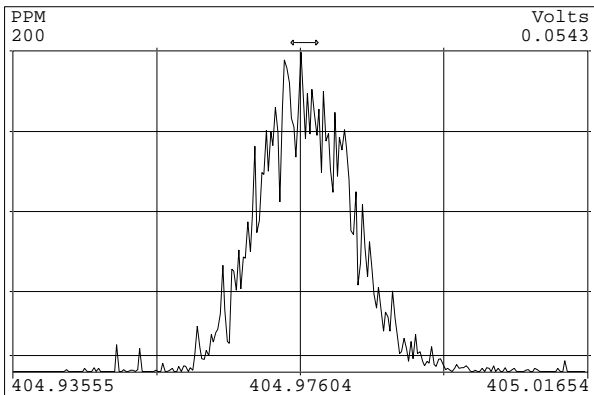
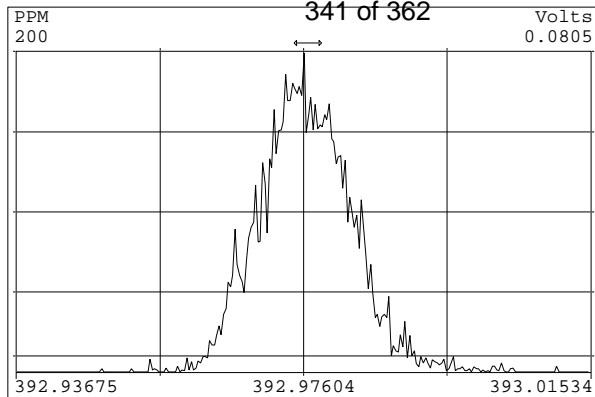
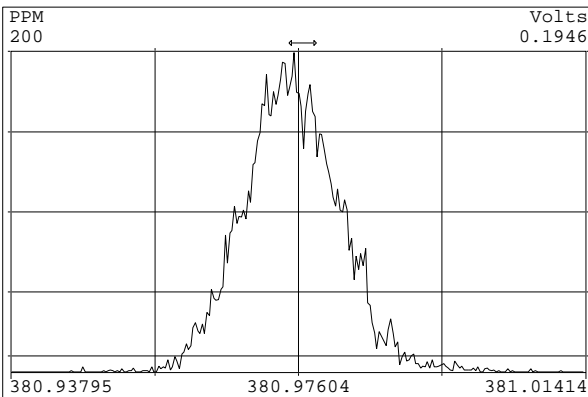
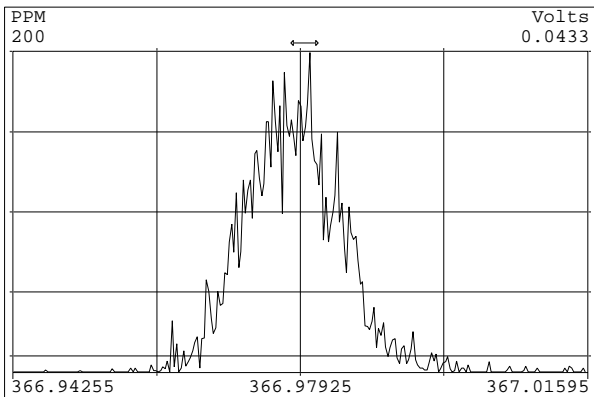


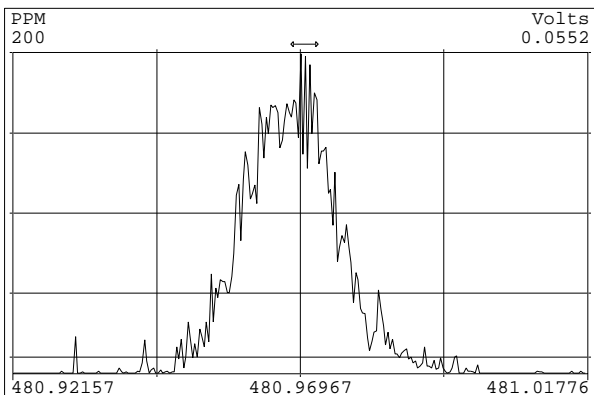
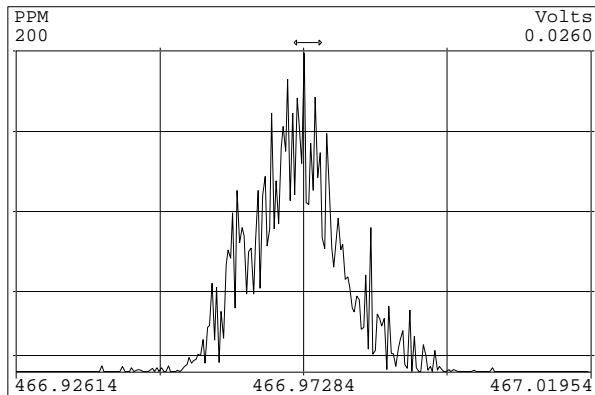
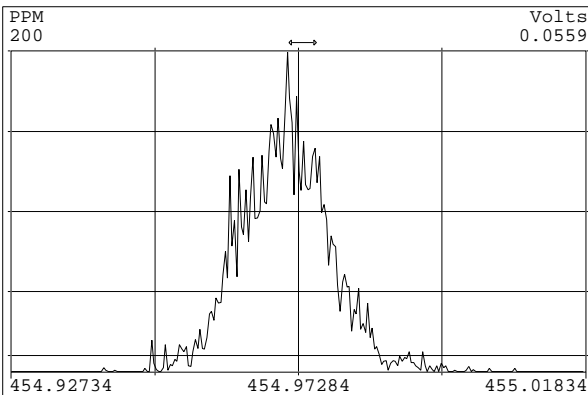
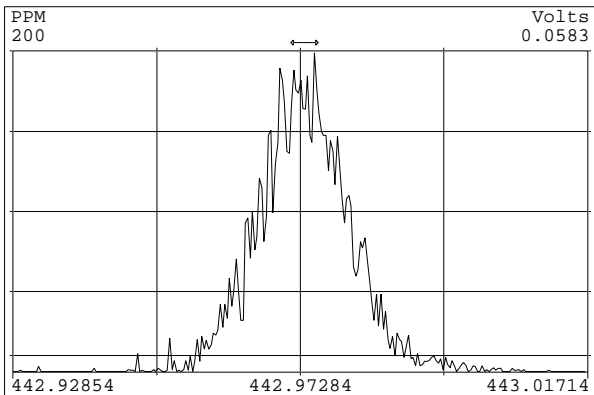
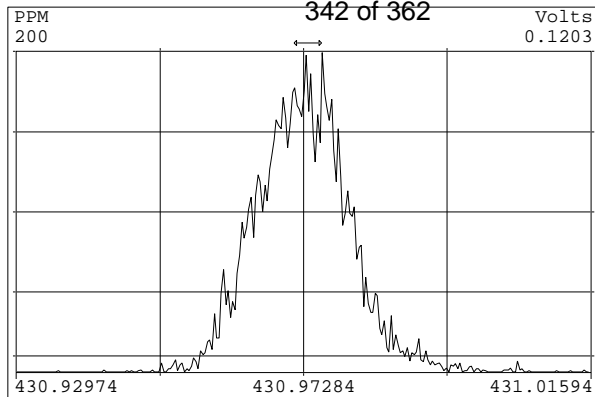
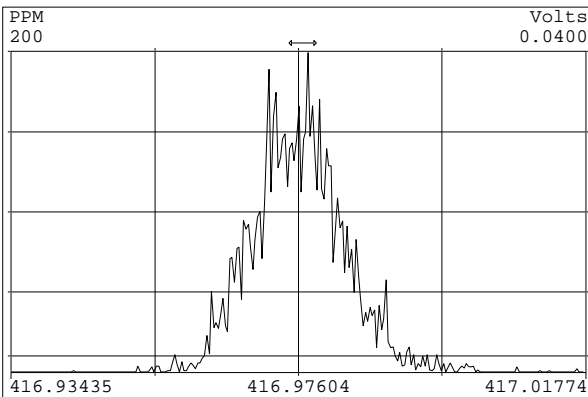
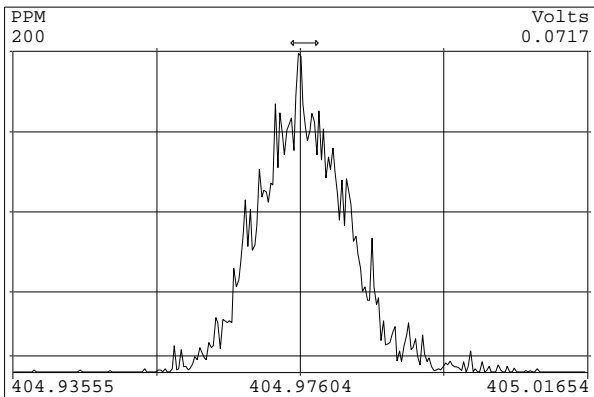


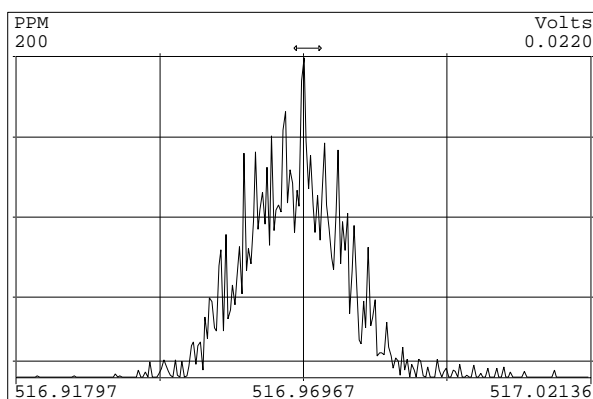
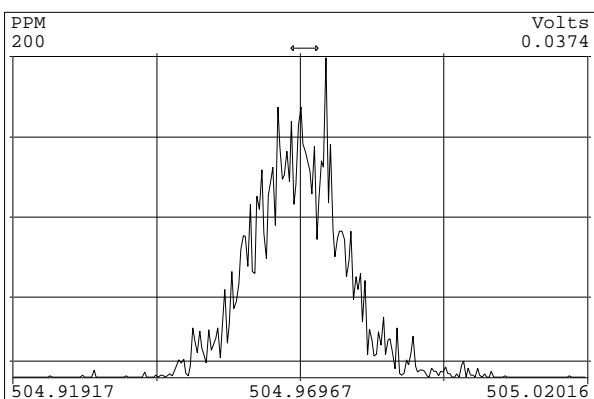
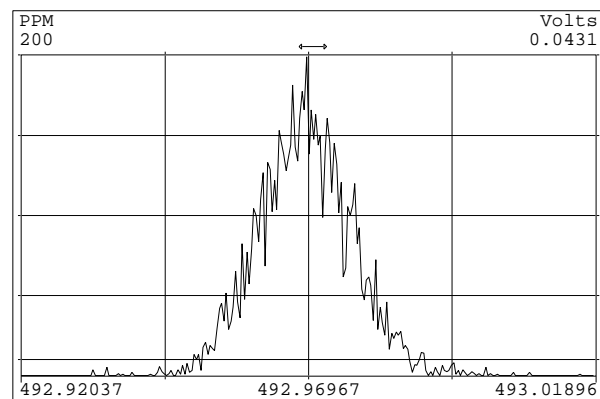
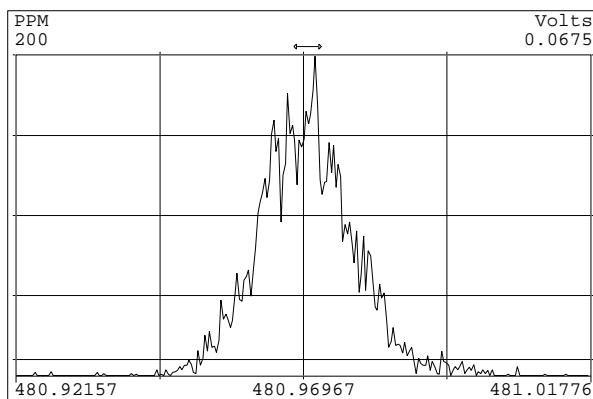
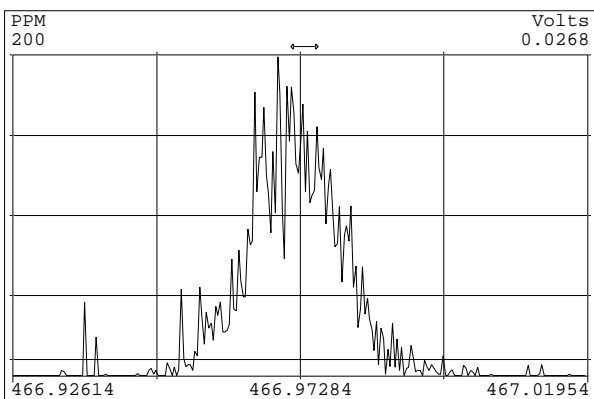
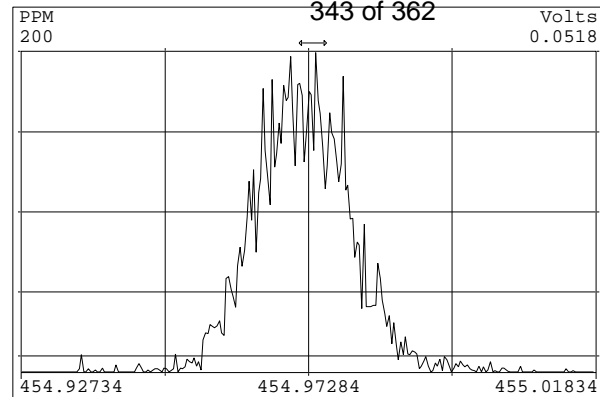
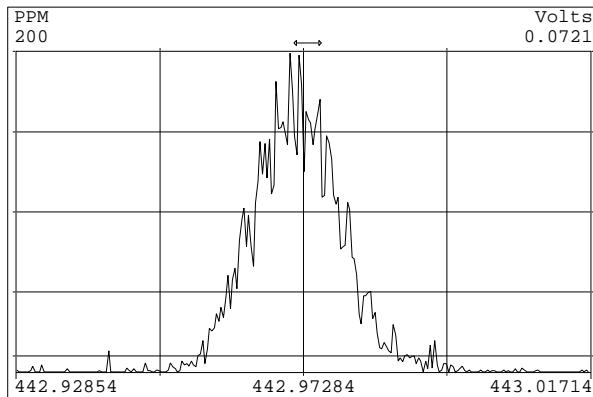
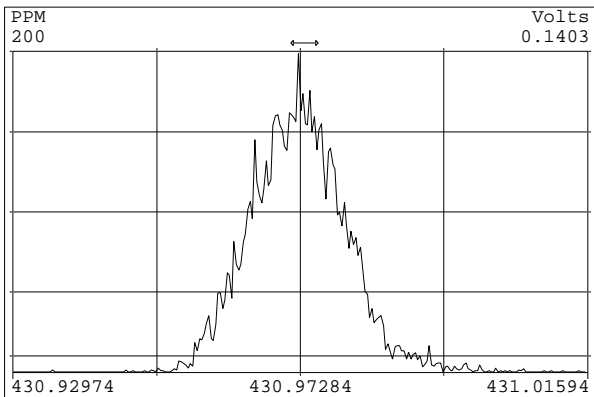












METHOD 1613B**PCDD/F ONGOING PRECISION AND RECOVERY (OPR)****FORM 8A**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
 Instrument ID: MM1 GC Column ID: ZB-5ms
 VER Data Filename: 131013P2-02 Analysis Date: 13-OCT-2013 23:12:25
 Lab ID: OPR1_11402_DFRJ

NATIVE ANALYTES	SPIKE CONC.	CONC. FOUND	RANGE (ng/mL)		OK
2,3,7,8-TCDD	10	9.99	6.7	- 15.8	Y
1,2,3,7,8-PeCDD	50	48.2	35	- 71	Y
1,2,3,4,7,8-HxCDD	50	49.6	35	- 82	Y
1,2,3,6,7,8-HxCDD	50	51.9	38	- 67	Y
1,2,3,7,8,9-HxCDD	50	48	32	- 81	Y
1,2,3,4,6,7,8-HpCDD	50	50.5	35	- 70	Y
OCDD	100	103	78	- 144	Y
2,3,7,8-TCDF	10	10.8	7.5	- 15.8	Y
1,2,3,7,8-PeCDF	50	46.5	40	- 67	Y
2,3,4,7,8-PeCDF	50	49	34	- 80	Y
1,2,3,4,7,8-HxCDF	50	50.3	36	- 67	Y
1,2,3,6,7,8-HxCDF	50	50.1	42	- 65	Y
2,3,4,6,7,8-HxCDF	50	49.1	35	- 78	Y
1,2,3,7,8,9-HxCDF	50	50	39	- 65	Y
1,2,3,4,6,7,8-HpCDF	50	50.6	41	- 61	Y
1,2,3,4,7,8,9-HpCDF	50	52.4	39	- 69	Y
OCDF	100	109	63	- 170	Y

Contract-required concentration limits for OPR as specified in Table 6,
 Method 1613. 10/94

REVIEWED

By Todd Vilen at 7:15 am, Oct 18, 2013

Processed: 15 Oct 2013 09:38

Analyst: MC

METHOD 1613B**PCDD/F ONGOING PRECISION AND RECOVERY (OPR)****FORM 8B**

Lab Name: SGS Analytical Perspectives
 Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
 Instrument ID: MM1 GC Column ID: ZB-5ms
 VER Data Filename: 131013P2-02 Analysis Date: 13-OCT-2013 23:12:25
 Lab ID: OPR1_11402_DFRJ

LABELED ANALYTES	SPIKE CONC.	CONC. FOUND	RANGE (ng/mL)			OK
13C-2,3,7,8-TCDD	100	98.7	20	-	175	Y
13C-1,2,3,7,8-PeCDD	100	98.9	21	-	227	Y
13C-1,2,3,4,7,8-HxCDD	100	87.2	21	-	193	Y
13C-1,2,3,6,7,8-HxCDD	100	87.3	25	-	163	Y
13C-1,2,3,7,8,9-HxCDD	100	87.5	26	-	166	Y
13C-1,2,3,4,6,7,8-HpCDD	100	88.4	26	-	166	Y
13C-OCDD	200	168	26	-	397	Y
13C-2,3,7,8-TCDF	100	98.2	22	-	152	Y
13C-1,2,3,7,8-PeCDF	100	102	21	-	192	Y
13C-2,3,4,7,8-PeCDF	100	102	13	-	328	Y
13C-1,2,3,4,7,8-HxCDF	100	79	19	-	202	Y
13C-1,2,3,6,7,8-HxCDF	100	82.3	21	-	159	Y
13C-2,3,4,6,7,8-HxCDF	100	82.5	22	-	176	Y
13C-1,2,3,7,8,9-HxCDF	100	85.1	17	-	205	Y
13C-1,2,3,4,6,7,8-HpCDF	100	82.7	21	-	158	Y
13C-1,2,3,4,7,8,9-HpCDF	100	84.2	20	-	186	Y
13C-OCDF	200	162	26	-	397	Y
CLEANUP STANDARD						
37Cl-2,3,7,8-TCDD	40	41.5	12.4	-	76.4	Y

Contract-required concentration limits for OPR as specified in Table 6,
 Method 1613. 10/94

Processed: 15 Oct 2013 09:38 Analyst: MC

METHOD 1613B

COLUMN PERFORMANCE AND RETENTION TIME WINDOWS

FORM CPSM

Lab Name: SGS Analytical Perspectives
Initial Calibration: ICAL: MM1_DF_11012012A_18SEPT2013
Instrument ID: MM1 GC Column ID: ZB-5ms
CPSM Data Filename: 131013P2-02 Analysis Date: 13-OCT-2013 23:12:25
Lab ID: OPR1_11402_DFRJ

Window Defining Standards Results

First Eluting Isomer	RT	Last Eluting Isomer	RT
1368-TCDD	23.31	1289-TCDD	28.56
12479/12468-PeCDD	30.78	12389-PeCDD	34.25
124679/124689-HxCDD	36.36	123789-HxCDD	38.87
1234679-HpCDD	41.66	1234678-HpCDD	42.57
1368-TCDF	21.10	1289-TCDF	28.75
13468/12468-PeCDF	28.69	12389-PeCDF	34.59
123468-HxCDF	35.56	123789-HxCDF	39.29
1234678-HpCDF	41.28	1234789-HpCDF	43.17

Isomer Specificity Test Standard Results

Closest Eluting Isomer	RT	2378 Specific Isomer	RT
1239-TCDD	27.25	2378-TCDD	27.43
2348-TCDF	26.31	2378-TCDF	26.44

Processed: 15 Oct 2013 09:38 Analyst: MC

Lab ID: OPR1_11402_DFRJ

Acq'd: 13 Oct 2013 23:12 MDC

Wt/Vol: 1.00 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: 0_11402_OPR001

UTP: 15-Oct-2013 09:37 MDC

J-level: 5 pg/g Split: 1

Checkcode: 313-593-DLB

Datafile: 131013P2-02

Report: 15 Oct 2013 09:38 MC

StdS (pg): JS: 100 ES: 100 CS/SS: 100, 40 (37CI)

Name	Act RT	QC	Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Conc.	Noise	DL
2378-TCDD	27.43		1.0009	1.0010	+0.2	1.12E+07	0.78	Y	1.18	9.99	4645	0.0506
12378-PeCDD	33.74		1.0007	1.0007	0	4.44E+07	1.61	Y	1.07	48.2	5423	0.0613
123478-HxCDD	38.39		1.0004	1.0004	0	4.19E+07	1.25	Y	1.19	49.6	4516	0.0526
123678-HxCDD	38.53		1.0039	1.0040	+0.2	4.33E+07	1.27	Y	1.19	51.9	4516	0.0552
123789-HxCDD	38.87		1.0127	1.0128	+0.2	4.26E+07	1.26	Y	1.12	48	4516	0.0538
1234678-HpCDD	42.57		1.0004	1.0004	0	3.94E+07	1.04	Y	1.08	50.5	8199	0.1
OCDD	46.29		1.0003	1.0003	0	5.68E+07	0.91	Y	1.14	103	7460	0.165
2378-TCDF	26.44		1.0009	1.0009	0	1.75E+07	0.79	Y	1.10	10.8	5924	0.0454
12378-PeCDF	32.00		1.0006	1.0007	+0.2	7.34E+07	1.52	Y	1.17	46.5	6435	0.0457
23478-PeCDF	33.32		1.0005	1.0006	+0.2	7.73E+07	1.56	Y	1.14	49	6435	0.0412
123478-HxCDF	37.22		1.0005	1.0005	0	6.49E+07	1.27	Y	1.34	50.3	5180	0.0405
123678-HxCDF	37.39		1.0005	1.0005	0	6.99E+07	1.26	Y	1.23	50.1	5180	0.0358
234678-HxCDF	38.17		1.0005	1.0004	-0.2	6.55E+07	1.24	Y	1.26	49.1	5180	0.0378
123789-HxCDF	39.29		1.0005	1.0005	0	5.81E+07	1.27	Y	1.23	50	5180	0.0458
1234678-HpCDF	41.28		1.0004	1.0003	-0.2	5.69E+07	1.04	Y	1.42	50.6	13283	0.121
1234789-HpCDF	43.17		1.0003	1.0004	+0.3	5.22E+07	1.02	Y	1.39	52.4	13283	0.142
OCDF	46.53		1.0004	1.0005	+0.3	8.13E+07	0.92	Y	1.11	109	6187	0.102

Name	Act RT		Pred. RRT	Act. RRT	ΔSecs	Response	Ra	OK	RRF	Rec. %
ES 2378-TCDD	27.40		1.0280	1.0282	+0.3	9.52E+07	0.80	Y	1.02	98.7
ES 12378-PeCDD	33.71		1.2640	1.2648	+1.3	8.57E+07	1.59	Y	0.92	98.9
ES 123478-HxCDD	38.38		0.9909	0.9909	0	7.10E+07	1.22	Y	1.02	87.2
ES 123678-HxCDD	38.51		0.9943	0.9943	0	7.01E+07	1.21	Y	1.01	87.3
ES 123789-HxCDD	38.85		1.0030	1.0031	+0.2	7.95E+07	1.23	Y	1.14	87.5
ES 1234678-HpCDD	42.55		1.0984	1.0986	+0.5	7.19E+07	1.05	Y	1.02	88.4
ES OCDD	46.28		1.1947	1.1949	+0.5	9.62E+07	0.90	Y	0.72	83.9
ES 2378-TCDF	26.41		1.0617	1.0621	+0.6	1.48E+08	0.73	Y	1.01	98.2
ES 12378-PeCDF	31.97		1.2848	1.2857	+1.3	1.35E+08	1.59	Y	0.89	102
ES 23478-PeCDF	33.30		1.3381	1.3392	+1.6	1.38E+08	1.55	Y	0.91	102
ES 123478-HxCDF	37.20		0.9606	0.9606	0	9.62E+07	0.53	Y	1.53	79
ES 123678-HxCDF	37.37		0.9649	0.9649	0	1.13E+08	0.54	Y	1.73	82.3
ES 234678-HxCDF	38.16		0.9851	0.9852	+0.2	1.06E+08	0.54	Y	1.61	82.5
ES 123789-HxCDF	39.27		1.0139	1.0139	0	9.44E+07	0.54	Y	1.39	85.1
ES 1234678-HpCDF	41.27		1.0654	1.0655	+0.2	7.91E+07	0.45	Y	1.20	82.7
ES 1234789-HpCDF	43.15		1.1140	1.1142	+0.5	7.17E+07	0.44	Y	1.07	84.2
ES OCDF	46.51		1.2010	1.2010	0	1.34E+08	0.91	Y	1.04	80.9

Lab ID: OPR1_11402_DFRJ

Acq'd: 13 Oct 2013 23:12 MDC

Wt/Vol: 1.00 g

ICAL: MM1_DF_11012012A_18SEPT2013

Client ID: 0_11402_OPR001

UTP: 15-Oct-2013 09:37 MDC

J-level: 5 pg/g Split: 1

Checkcode: 313-593-DLB

Datafile: 131013P2-02

Report: 15 Oct 2013 09:38 MC

StdS (pg): JS: 100 ES: 100 CS/SS: 100, 40 (37Cl)

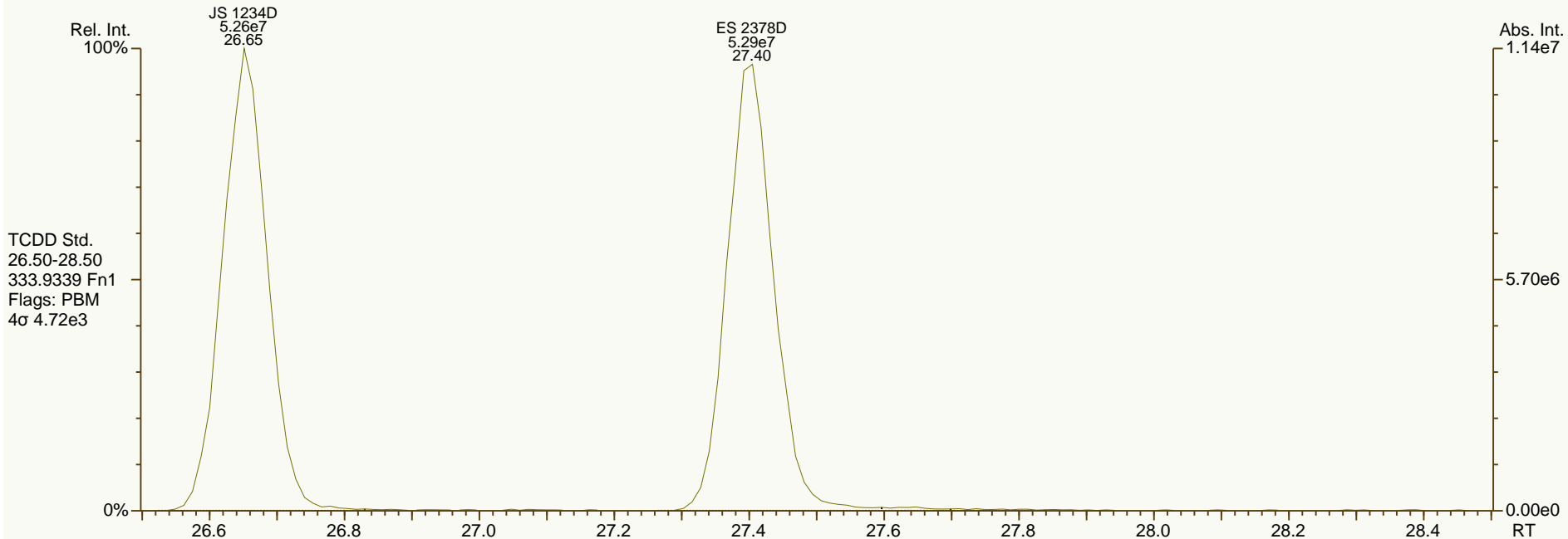
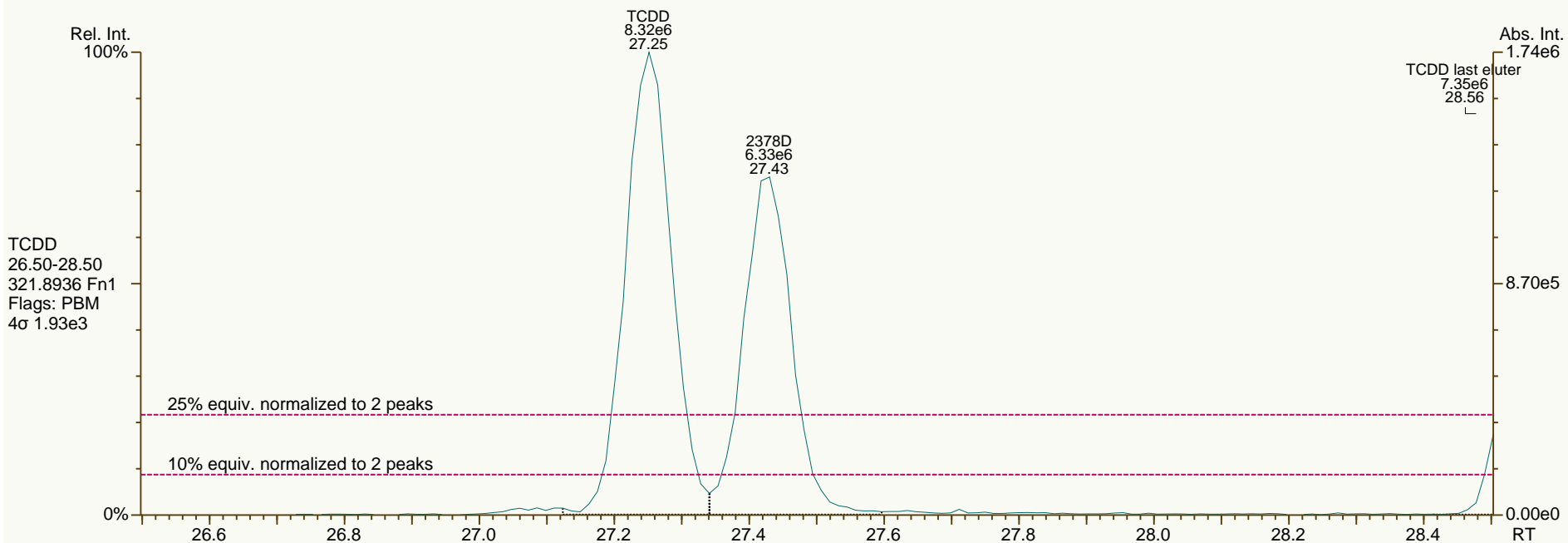
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JS 1234-TCDD	26.65		-	-	-	9.43E+07	0.79	Y	-	-
JS 1234-TCDF	24.87		-	-	-	1.49E+08	0.72	Y	-	-
JS 123467-HxCDD	38.73		-	-	-	3.98E+07	1.20	Y	-	-
CS 37Cl-2378-TCDD	27.43		1.0289	1.0291	+0.3	4.43E+07	n/a	-	1.13	104
CS 12347-PeCDD	33.12		1.2418	1.2425	+1.1	8.63E+07	1.62	Y	0.88	104
CS 12346-PeCDF	31.35		1.2599	1.2607	+1.2	1.38E+08	1.58	Y	0.90	103
CS 123469-HxCDF	37.74		0.9743	0.9744	+0.2	1.07E+08	0.53	Y	1.40	95.7
CS 1234689-HpCDF	41.83		1.0798	1.0800	+0.5	7.72E+07	0.45	Y	1.09	88.8
SS 37Cl-2378-TCDD	27.43		1.0289	1.0291	+0.3	4.43E+07	n/a	-	1.11	104
SS 12347-PeCDD	33.12		1.2418	1.2425	+1.1	8.63E+07	1.62	Y	0.96	105
SS 12346-PeCDF	31.35		1.2599	1.2607	+1.2	1.38E+08	1.58	Y	1.02	99.9
SS 123469-HxCDF	37.74		0.9743	0.9744	+0.2	1.07E+08	0.53	Y	0.81	116
SS 1234689-HpCDF	41.83		1.0798	1.0800	+0.5	7.72E+07	0.45	Y	0.91	107
AS 1368-TCDD	23.27		0.8735	0.8732	-0.5	1.13E+08	0.78	Y	1.01	119
AS 1368-TCDF	21.07		0.8478	0.8474	-0.6	1.66E+08	0.74	Y	1.22	91.2
FS 1278-TCDD	NotFnd		1.0139							
FS 12478-PeCDD	NotFnd		0.9570							
FS 123468-HxCDD	NotFnd		0.9674							
FS 1234679-HpCDD	NotFnd		0.9788							
TS 1378-TCDD	NotFnd		0.9313							

Totals	Conc	EMPC			
Total TCDD	47.2	47.2	* 37Cl correction has been applied to 2378-TCDD		
Total PeCDD	72.5	72.5	Original Values		Corrected Values
Total HxCDD	161	161	Ratio	0.78	0.78
Total HpCDD	61.8	61.8	Response	1.13E+07	1.12E+07
Total Tetra-Octa Dioxins	445	445			
Total TCDF	50.3	50.3			
Total PeCDF	116	116			
Total HxCDF	212	212			
Total HpCDF	103	103			
Total Tetra-Octa Furans	591	591			
Total Tetra-Octa Dioxins & Furans	1040	1040			

SGS-AP ID: OPR1_11402_DFRJ
 Instr: AutoSpec-Ultima MM1

Sample ID: 0_11402_OPR001
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

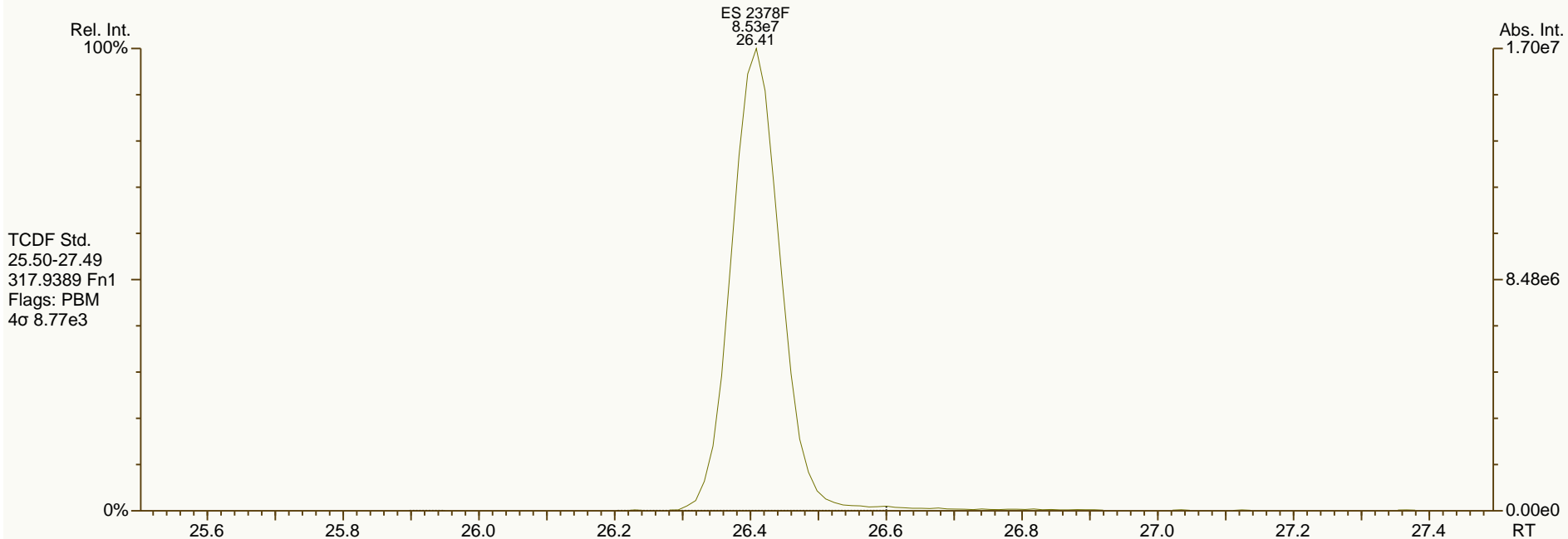
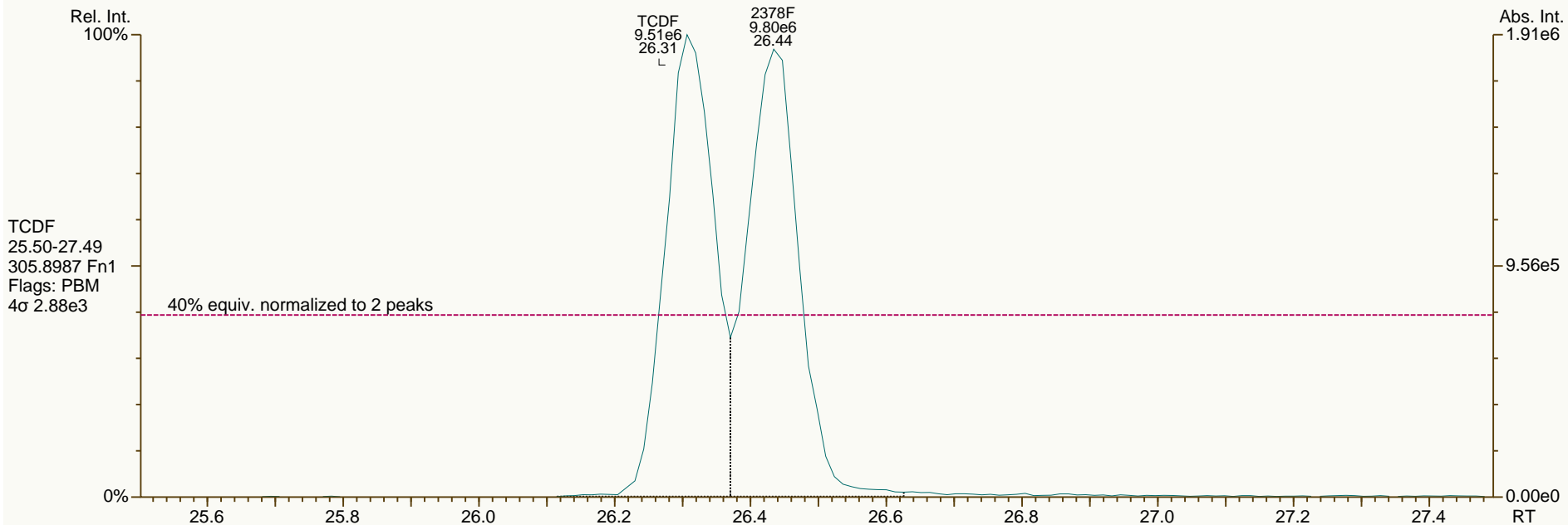
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SGS-AP ID: OPR1_11402_DFRJ
 Instr: AutoSpec-Ultima MM1

Sample ID: 0_11402_OPR001
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

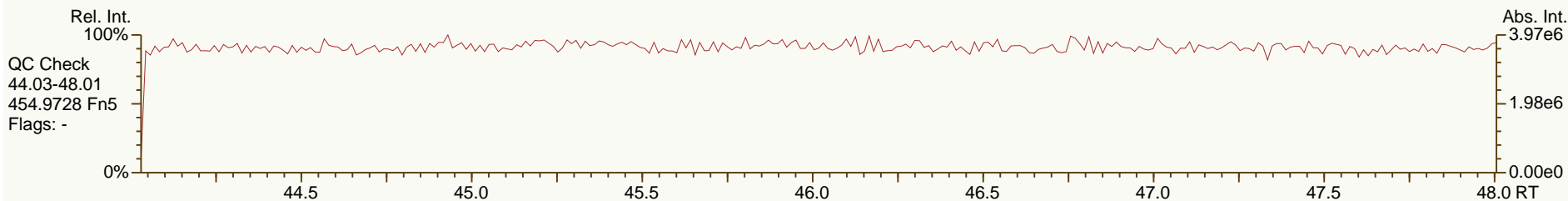
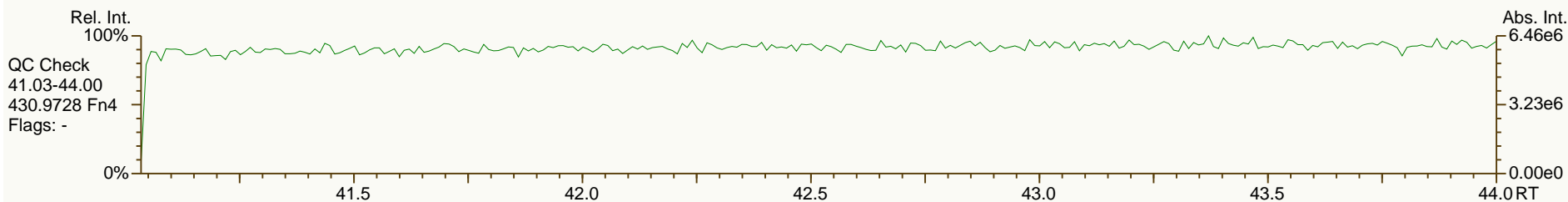
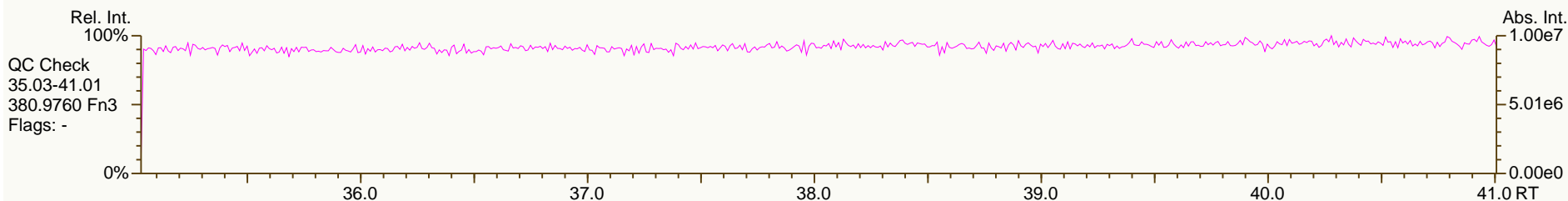
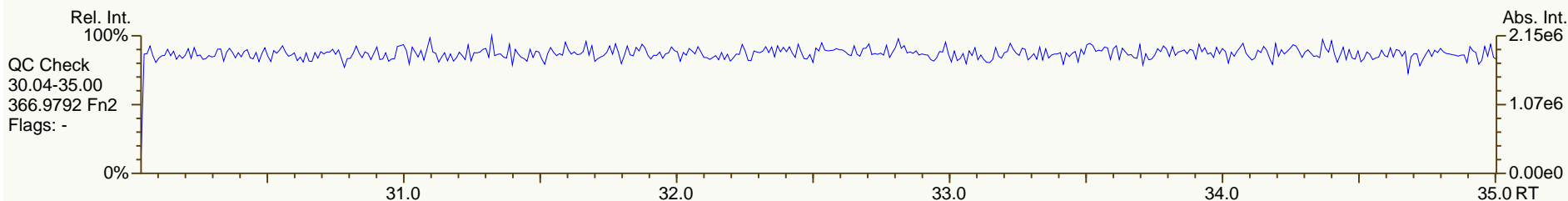
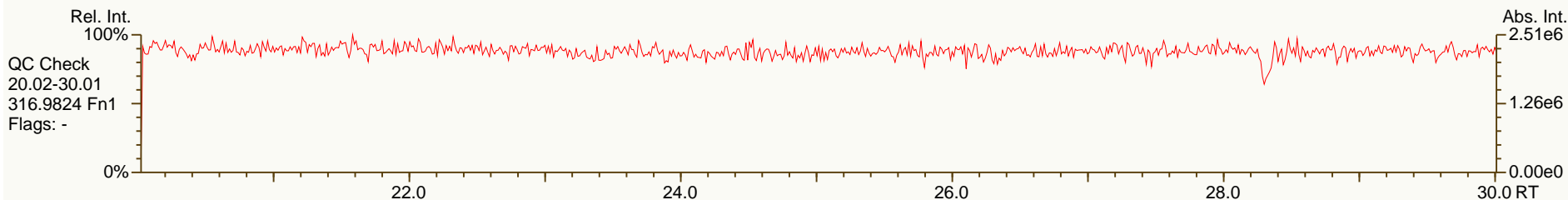
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SGS-AP ID: OPR1_11402_DFRJ
Instr: AutoSpec-Ultima MM1

Sample ID: 0_11402_OPR001
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

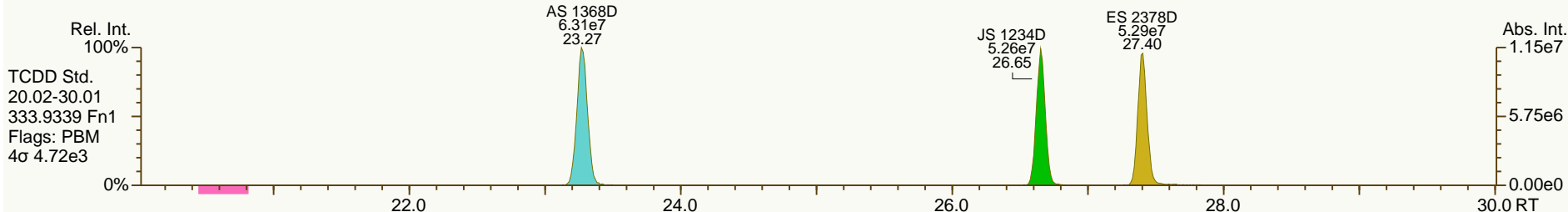
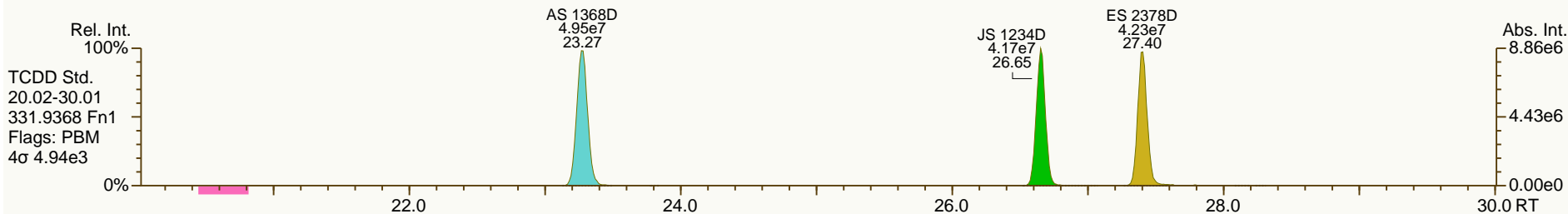
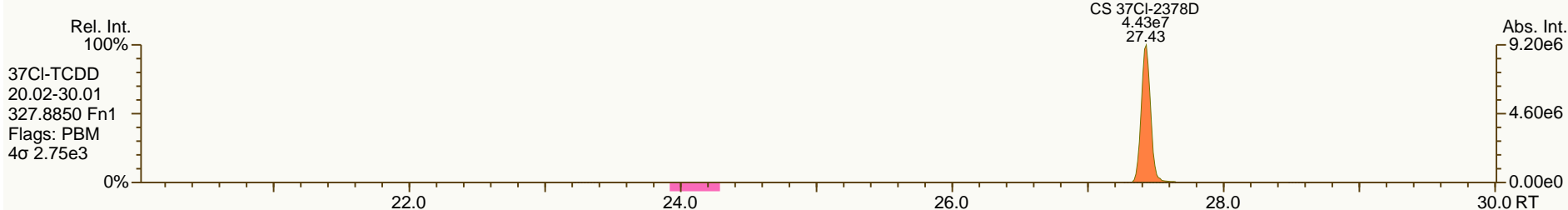
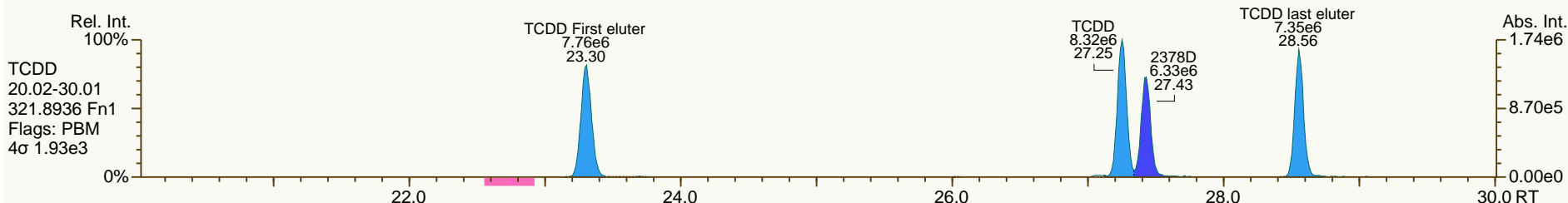
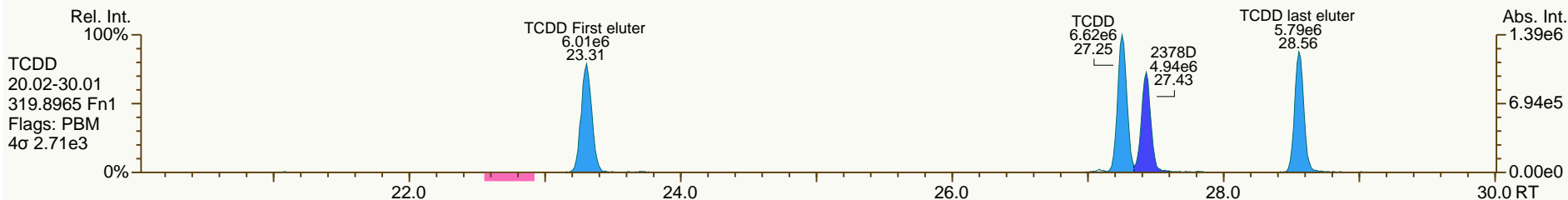
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SGS-AP ID: OPR1_11402_DFRJ
 Instr: AutoSpec-Ultima MM1

Sample ID: 0_11402_OPR001
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

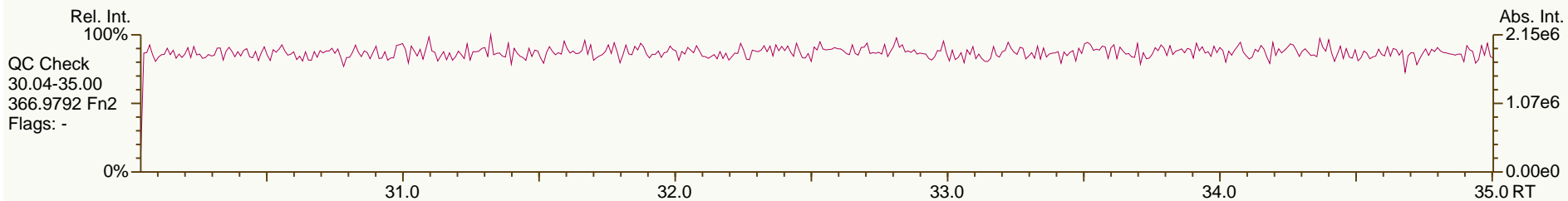
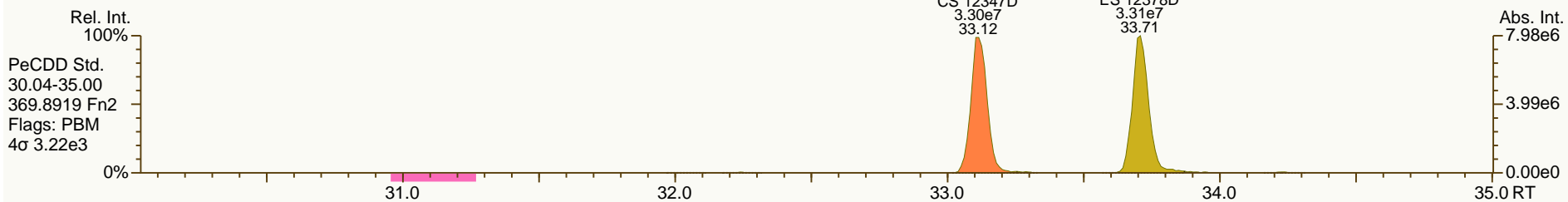
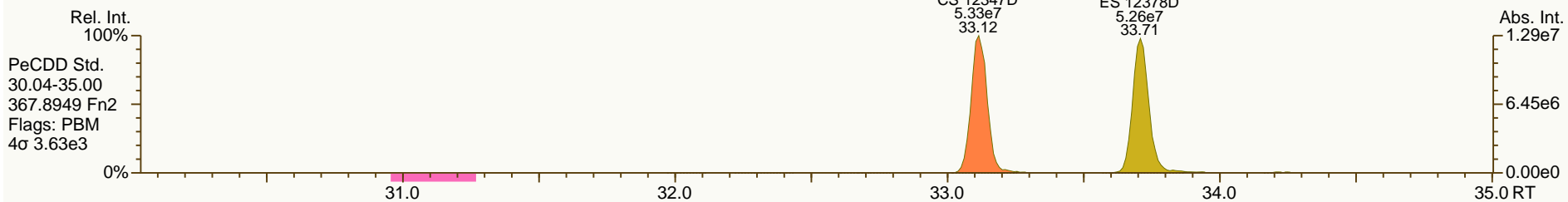
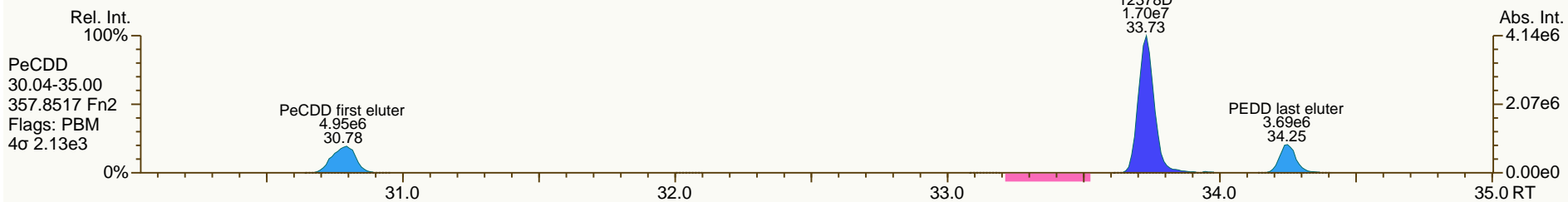
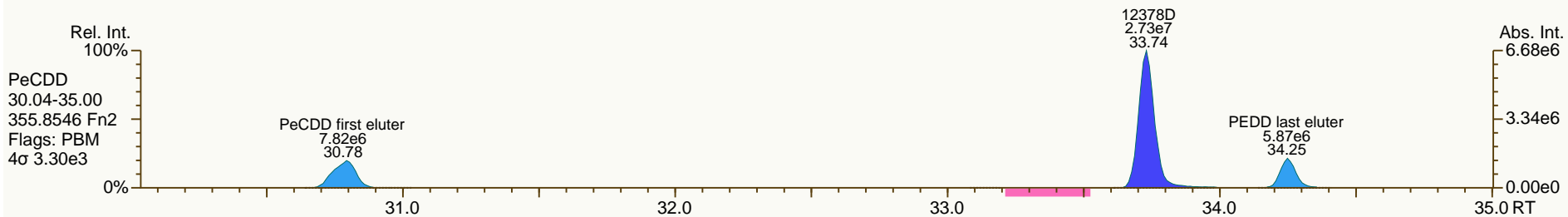
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SGS-AP ID: OPR1_11402_DFRJ
 Instr: AutoSpec-Ultima MM1

Sample ID: 0_11402_OPR001
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

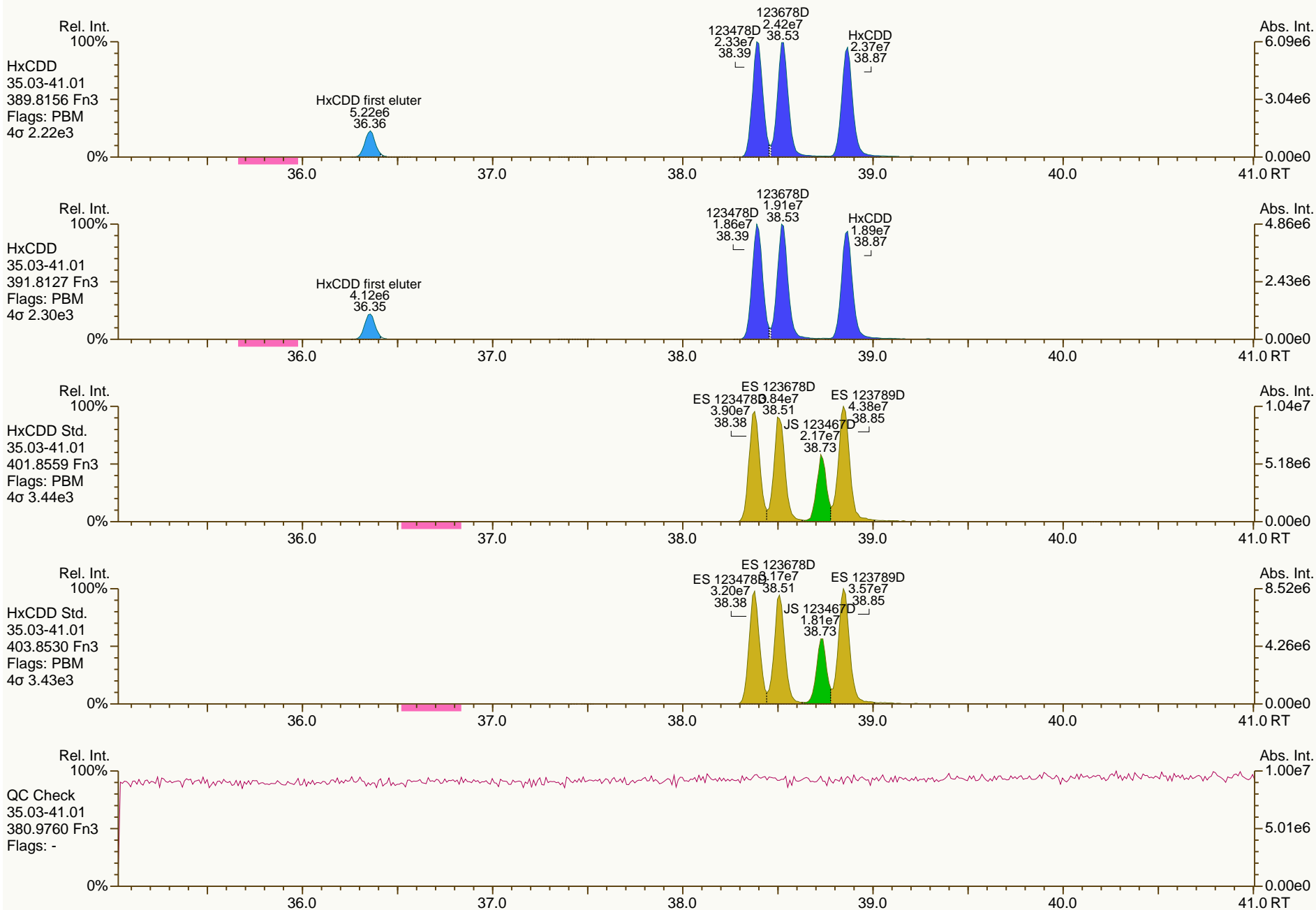
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SGS-AP ID: OPR1_11402_DFRJ
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 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

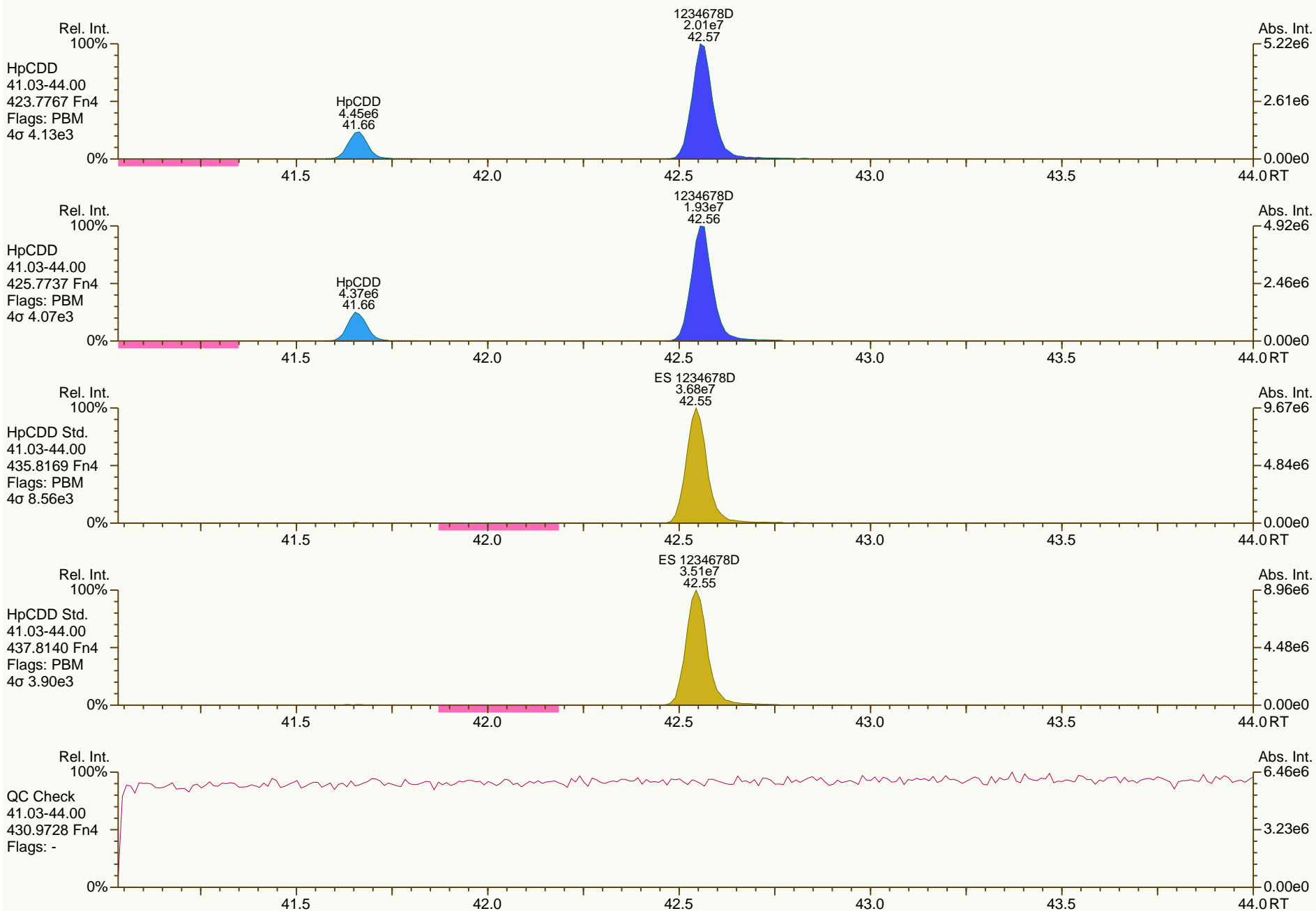
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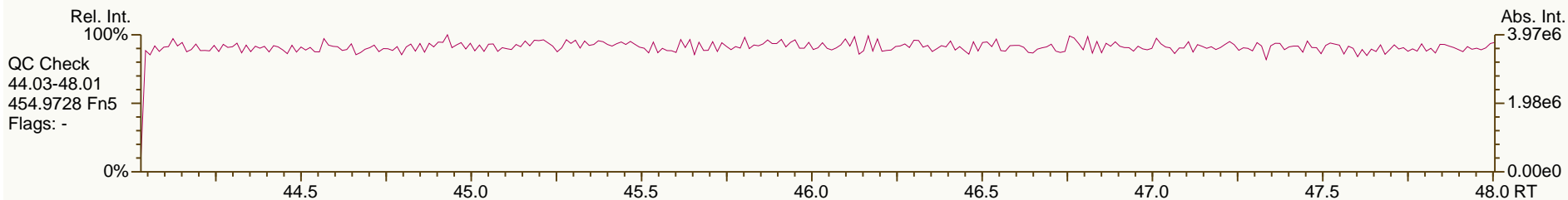
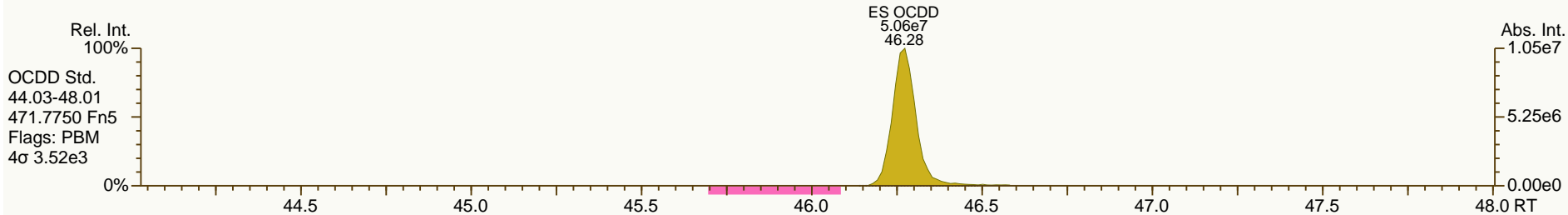
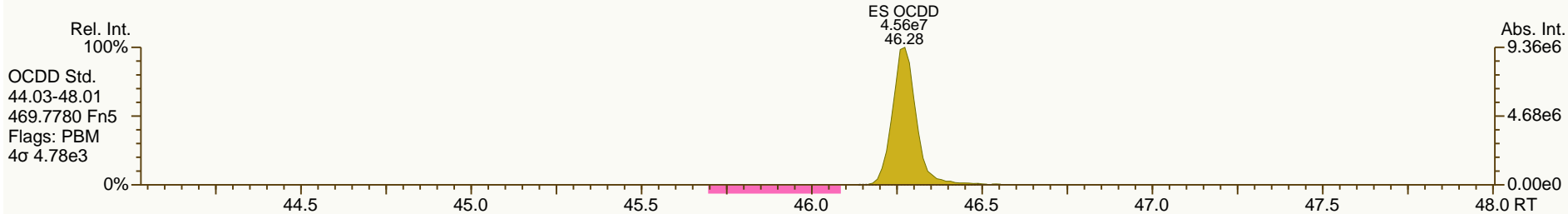
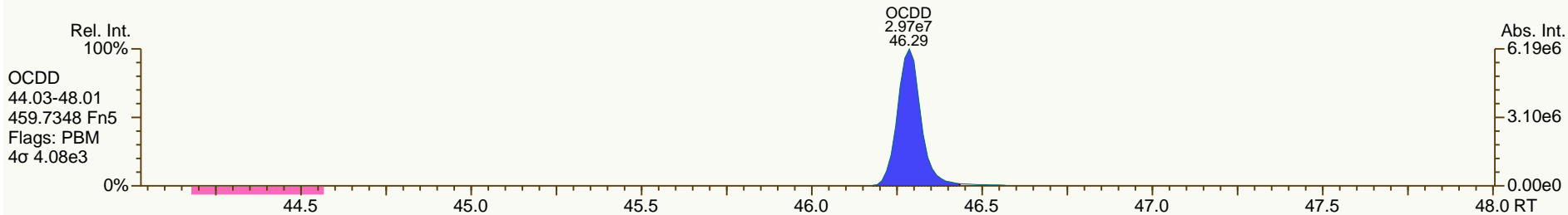
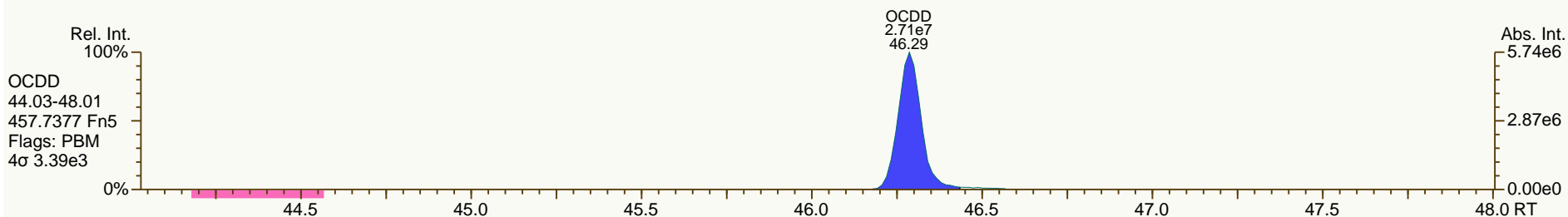
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SGS-AP ID: OPR1_11402_DFRJ
Instr: AutoSpec-Ultima MM1

Sample ID: 0_11402_OPR001
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

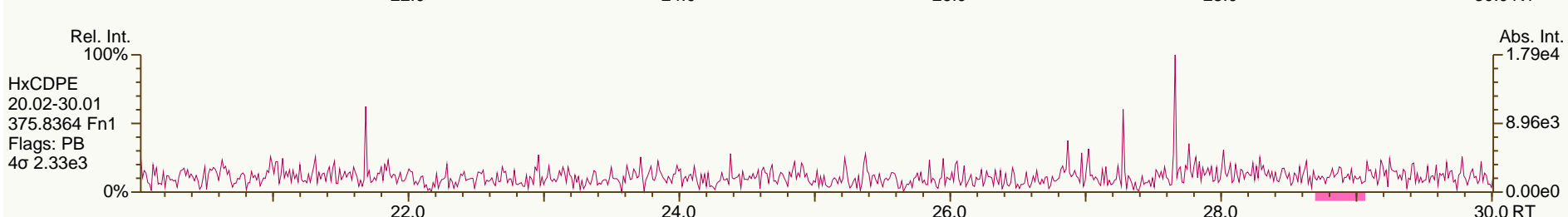
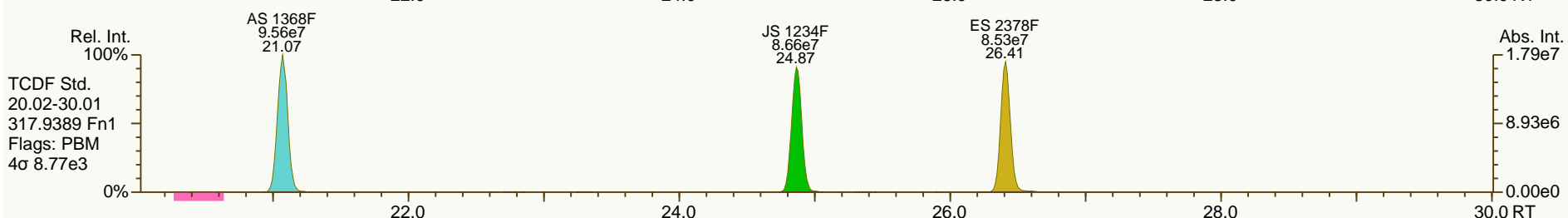
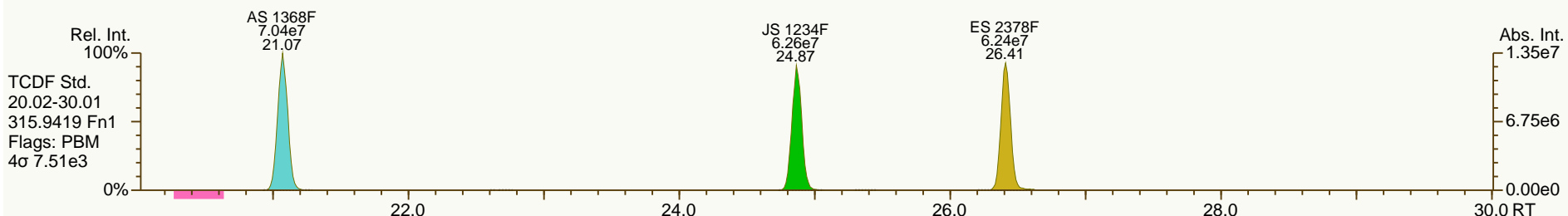
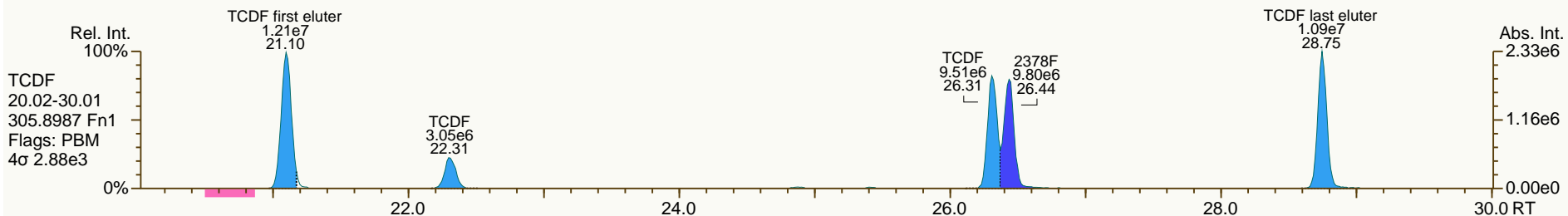
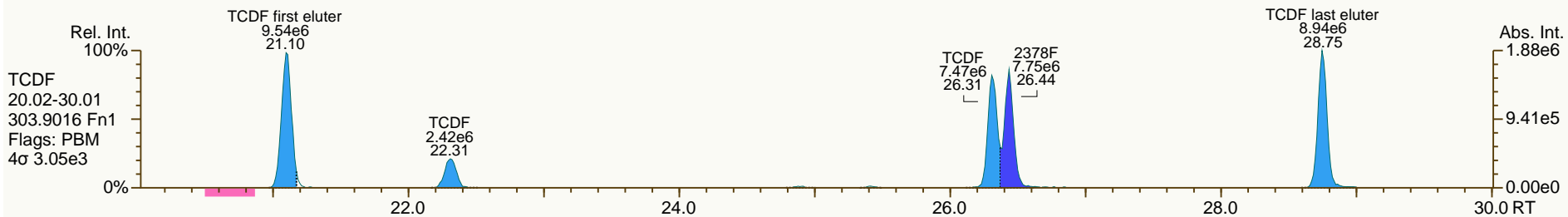
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User: MDC Datafile: 131013P2-02



SGS-AP ID: OPR1_11402_DFRJ
 Instr: AutoSpec-Ultima MM1

Sample ID: 0_11402_OPR001
 SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

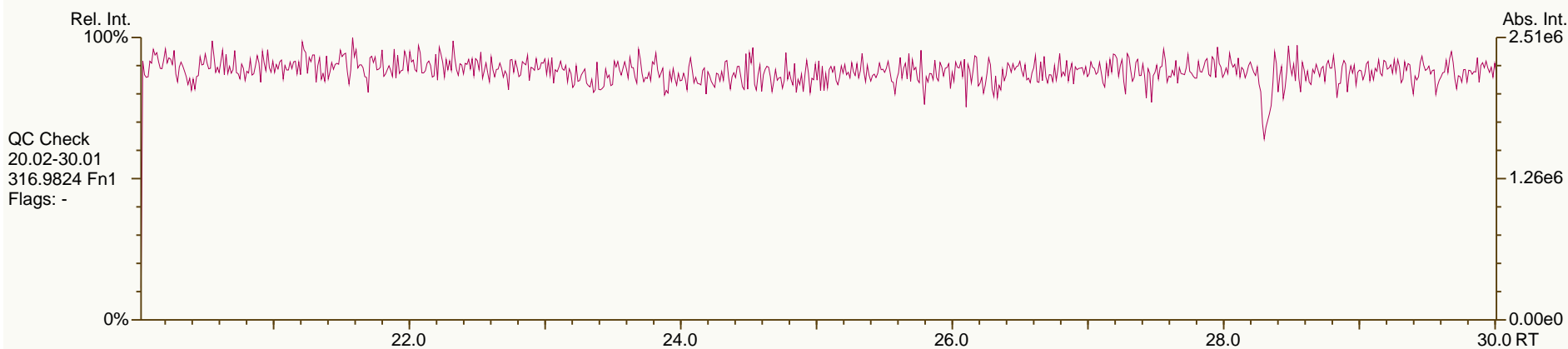
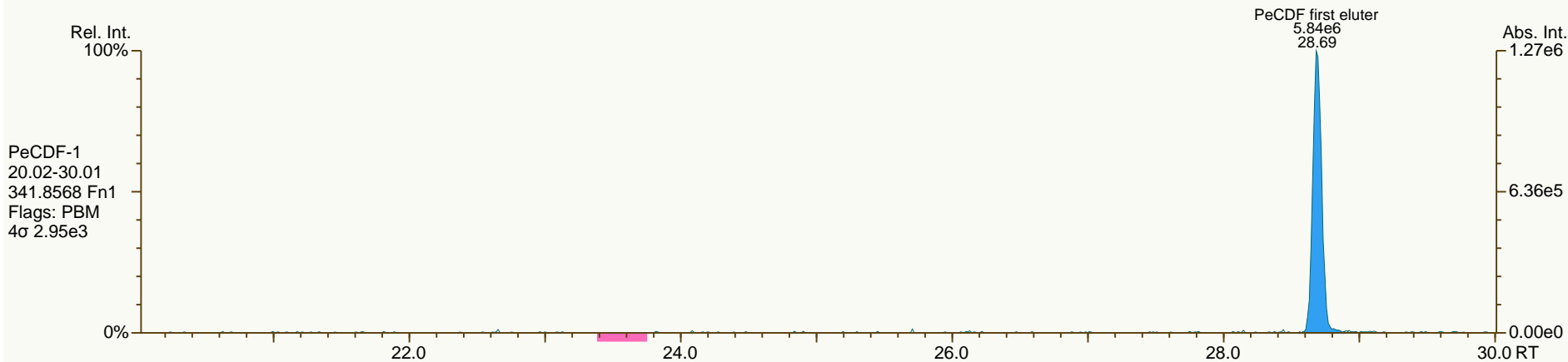
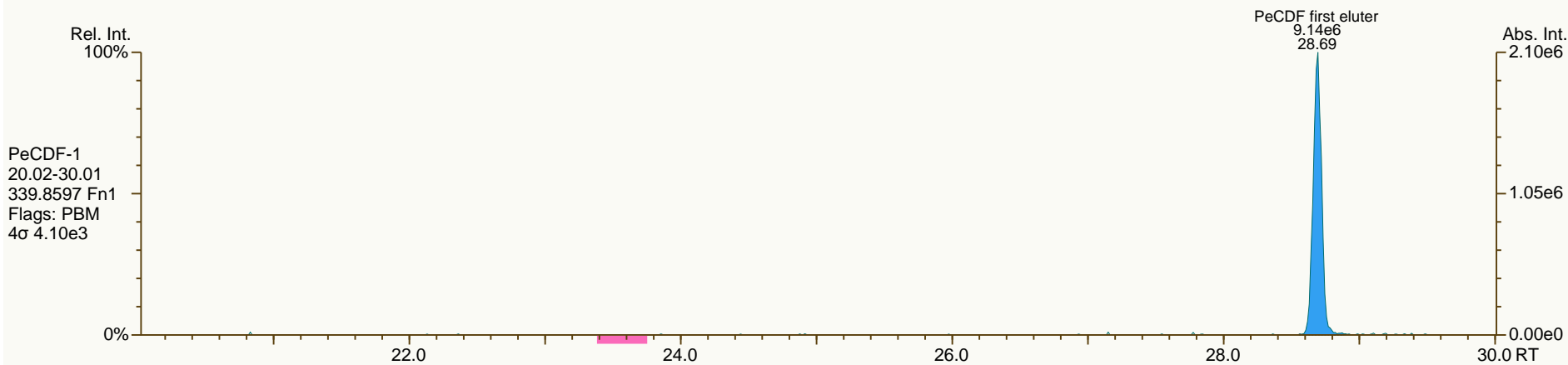
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SGS-AP ID: OPR1_11402_DFRJ
Instr: AutoSpec-Ultima MM1

Sample ID: 0_11402_OPR001
SIR EI+: DF_CL4-8 GC: DB5MS_60M Vial: 17

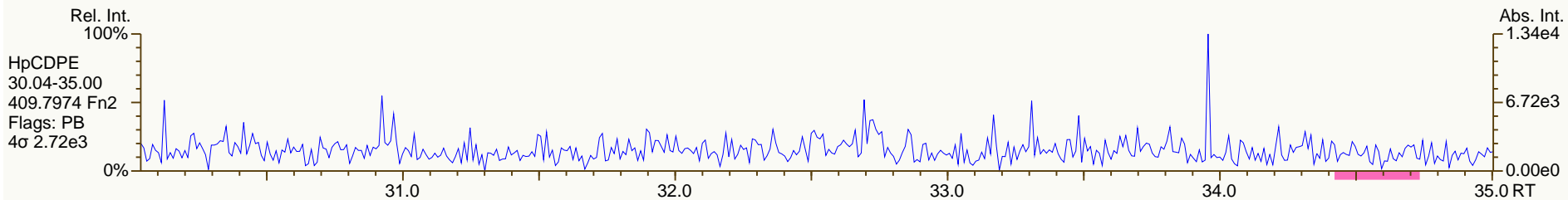
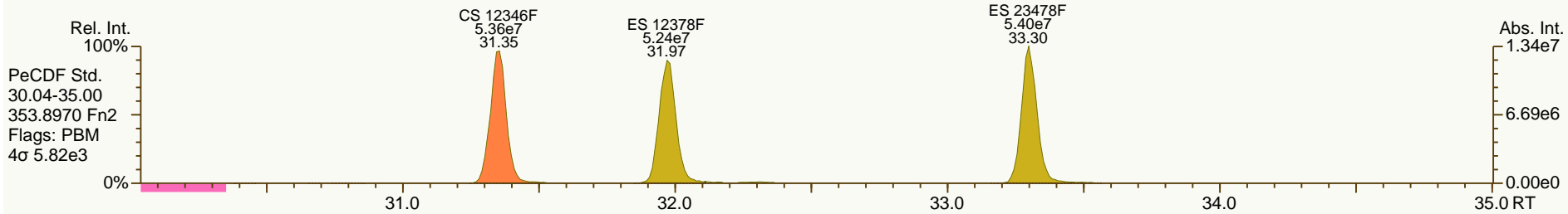
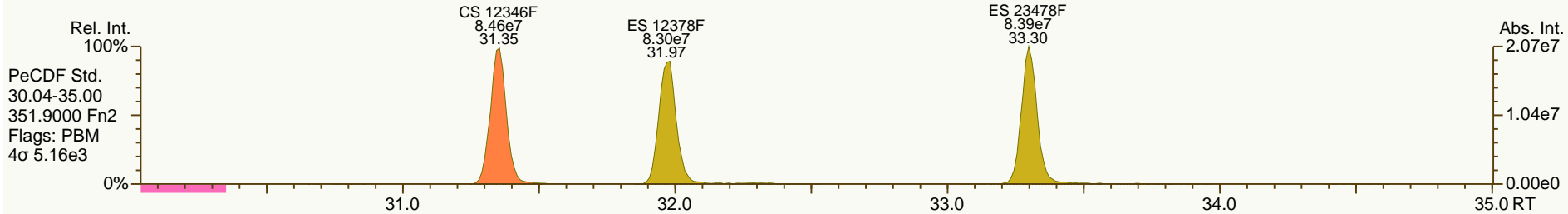
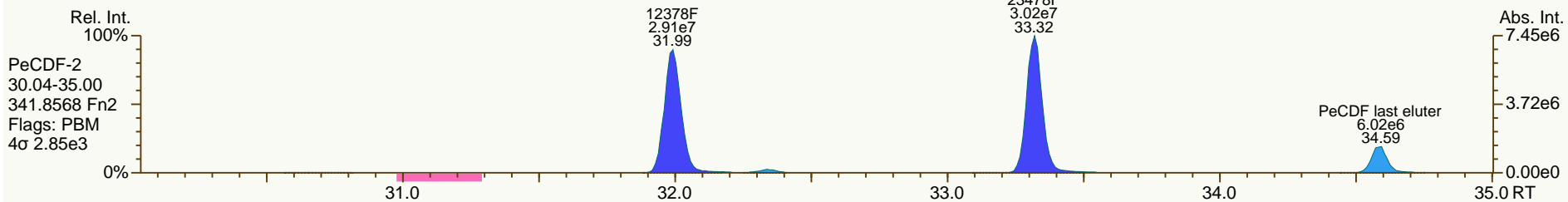
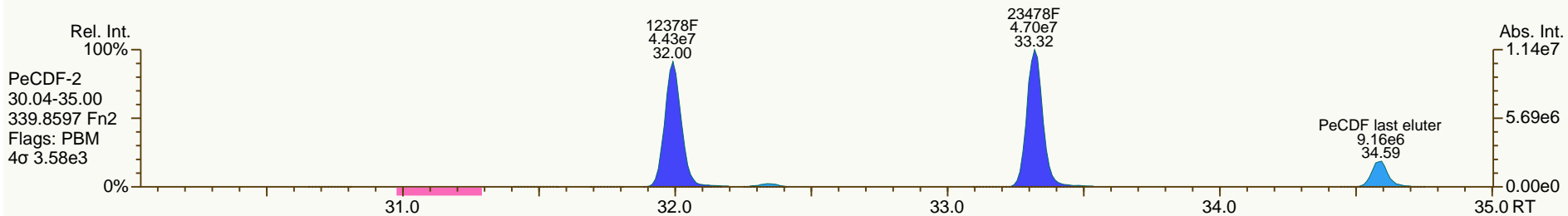
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SGS-AP ID: OPR1_11402_DFRJ
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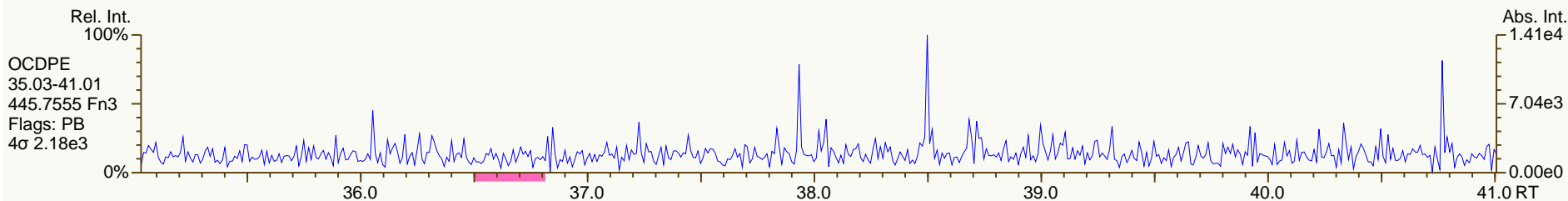
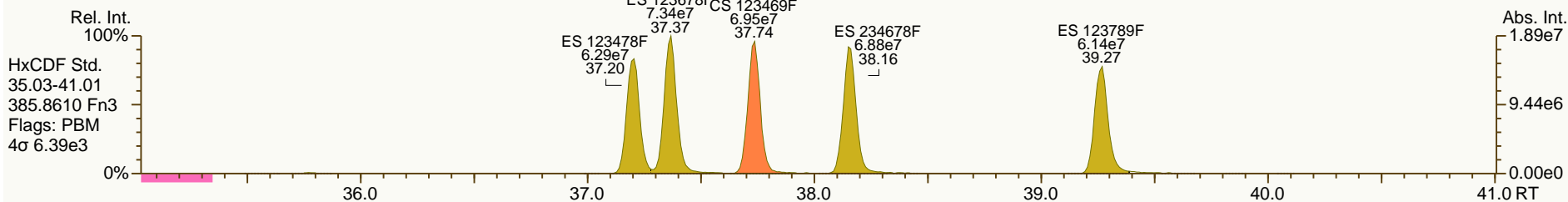
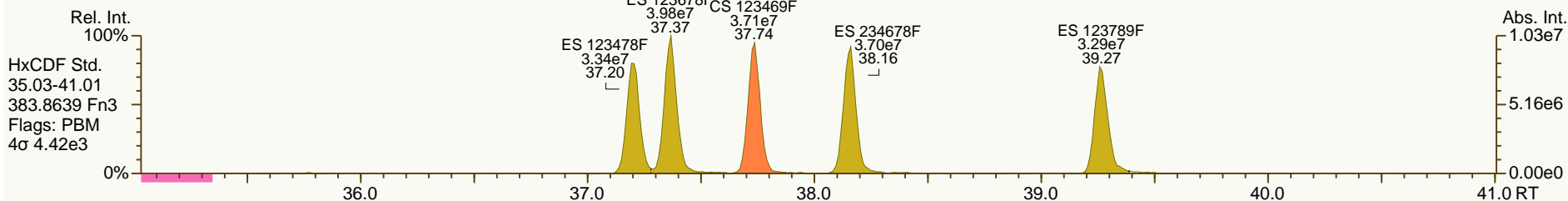
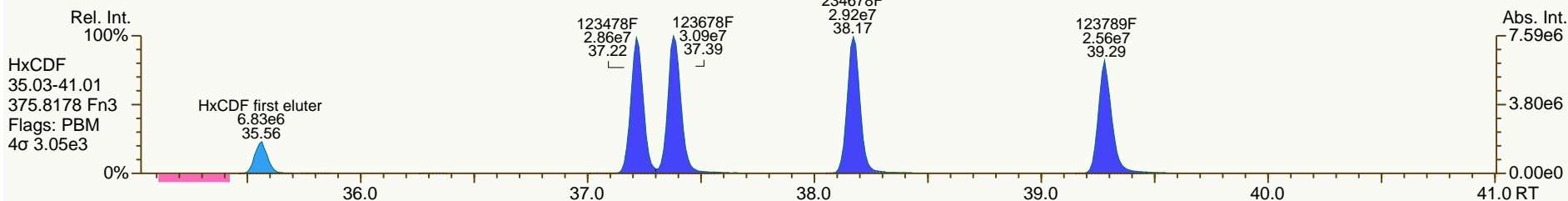
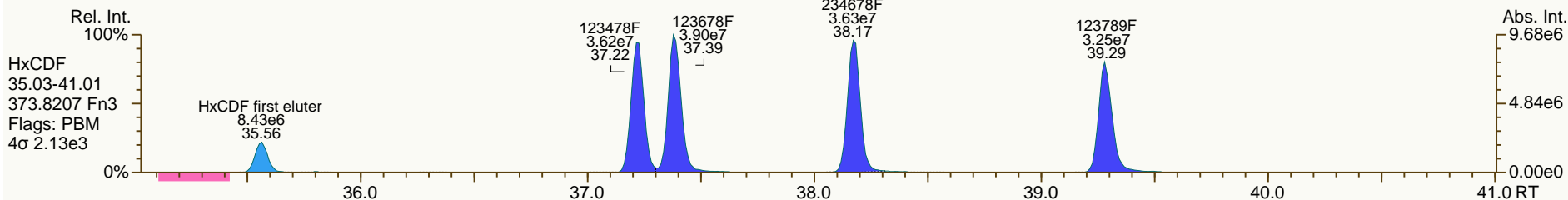
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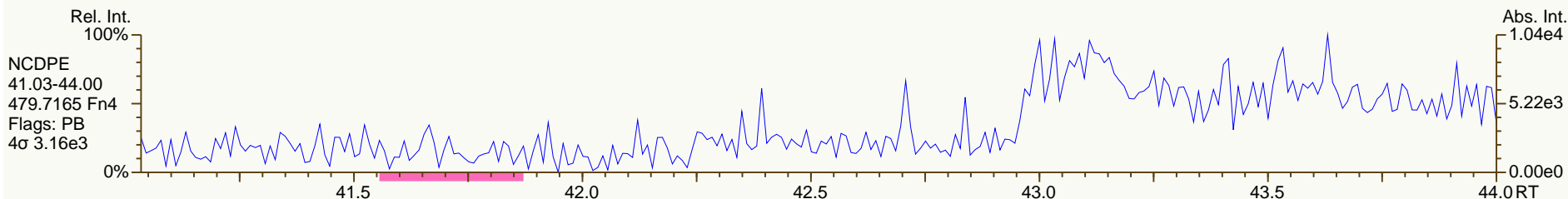
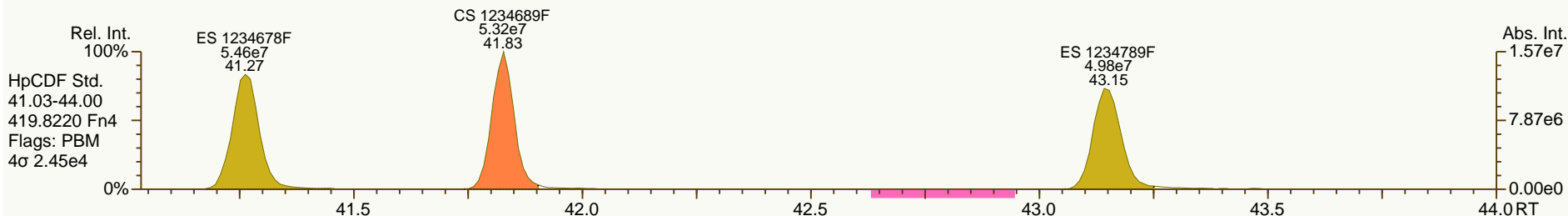
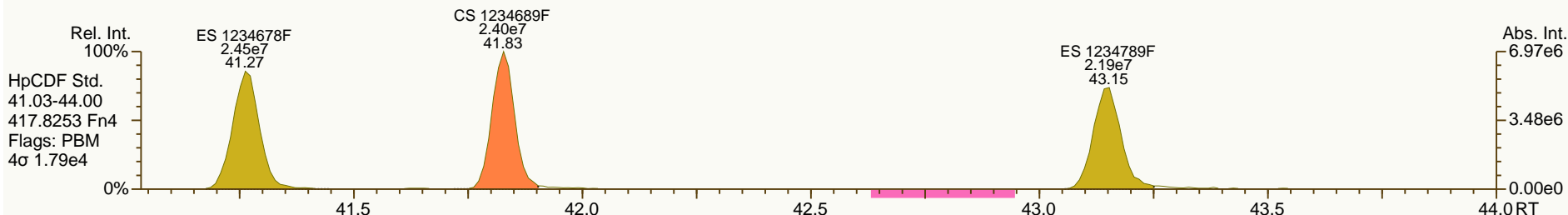
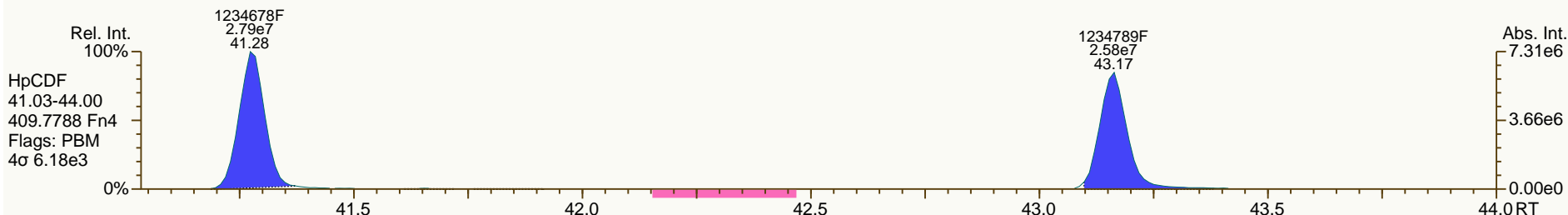
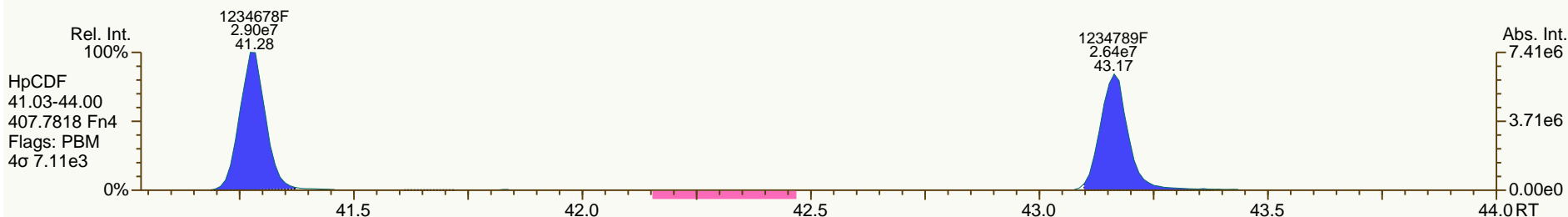
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