



January 07, 2020

**Vista Work Order No. 1903655**

Ms. Delaney Peterson  
Anchor QEA, LLC  
720 Olive Way, Suite 1900  
Seattle, WA 98101

Dear Ms. Peterson,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on October 15, 2019 under your Project Name 'Gasco PDI'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at [mmaier@vista-analytical.com](mailto:mmaier@vista-analytical.com).

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier  
Laboratory Director



*Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.*

## **Vista Work Order No. 1903655**

### **Case Narrative**

#### **Sample Condition on Receipt:**

Twelve sediment and two QC water samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

#### **Analytical Notes:**

##### **EPA Method 1613B**

The samples were extracted and analyzed for tetra-through-octa chlorinated dioxins and furans by EPA Method 1613B using a ZB-5MS GC column.

##### **Holding Times**

These samples were extracted and analyzed within the method hold times.

##### **Quality Control**

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with each preparation batch. No analytes were detected in the Method Blanks above the quantitation limits. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

##### **EPA Method 1668C**

The QC water and two sediment samples were extracted and analyzed for 209 PCB congeners by EPA Method 1668C using a ZB-1 GC column.

##### **Holding Times**

The samples were extracted and analyzed within the method hold times.

##### **Quality Control**

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with each preparation batch. No analytes were detected above the sample quantitation limits in the Method Blanks. The OPR recoveries were within the method acceptance criteria.



Sample "PDI-035SC-A-00-01-191010" required re-extraction using a smaller mass. The mono-, di- and tri-homologues were reported from a dilution due to matrix interferences.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

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# Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1903655-01	PDI-032SC-A-00-01-191010	10-Oct-19 08:17	15-Oct-19 08:51	Amber Glass, 120 mL
1903655-02	PDI-032SC-A-11-12-191010	10-Oct-19 08:17	15-Oct-19 08:51	Amber Glass, 120 mL
1903655-03	PDI-032SC-A-12-12.8-191010	10-Oct-19 08:17	15-Oct-19 08:51	Amber Glass, 120 mL
1903655-04	PDI-FB-1910101246	10-Oct-19 12:46	15-Oct-19 08:51	Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L
1903655-05	PDI-RB-1910101241	10-Oct-19 12:41	15-Oct-19 08:51	Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L
1903655-06	PDI-035SC-A-00-01-191010	10-Oct-19 14:18	15-Oct-19 08:51	Amber Glass, 120 mL
1903655-07	PDI-035SC-A-11-12-191010	10-Oct-19 14:18	15-Oct-19 08:51	Amber Glass, 120 mL
1903655-08	PDI-035SC-A-12-12.7-191010	10-Oct-19 14:18	15-Oct-19 08:51	Amber Glass, 120 mL
1903655-09	PDI-041SC-A-12-13-191010	10-Oct-19 09:56	15-Oct-19 08:51	Amber Glass, 120 mL
1903655-10	PDI-041SC-A-13-14.2-191010	10-Oct-19 09:56	15-Oct-19 08:51	Amber Glass, 120 mL
1903655-11	PDI-045SC-A-12-13-191010	10-Oct-19 17:36	15-Oct-19 08:51	Amber Glass, 120 mL
1903655-12	PDI-045SC-A-13-13.6-191010	10-Oct-19 17:36	15-Oct-19 08:51	Amber Glass, 120 mL
1903655-13	PDI-067SC-A-12-13-191010	10-Oct-19 15:59	15-Oct-19 08:51	Amber Glass, 120 mL
1903655-14	PDI-067SC-A-13-13.8-191010	10-Oct-19 15:59	15-Oct-19 08:51	Amber Glass, 120 mL

## **ANALYTICAL RESULTS**

Sample ID: Method Blank				EPA Method 1613B				
Matrix: Solid	QC Batch: B9J0322	Lab Sample: B9J0322-BLK1		Date Analyzed: 17-Dec-19 16:16		Column: ZB-5MS		
Sample Size: 10.0 g	Date Extracted: 30-Oct-2019 11:02							
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.117			IS 13C-2,3,7,8-TCDD	90.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0712			13C-1,2,3,7,8-PeCDD	98.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0889			13C-1,2,3,4,7,8-HxCDD	78.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0866			13C-1,2,3,6,7,8-HxCDD	77.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0978			13C-1,2,3,7,8,9-HxCDD	85.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.124			13C-1,2,3,4,6,7,8-HpCDD	88.1	23 - 140	
OCDD	ND	0.172			13C-OCDD	70.8	17 - 157	
2,3,7,8-TCDF	ND	0.0613			13C-2,3,7,8-TCDF	91.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0447			13C-1,2,3,7,8-PeCDF	88.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0454			13C-2,3,4,7,8-PeCDF	91.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0298			13C-1,2,3,4,7,8-HxCDF	86.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0288			13C-1,2,3,6,7,8-HxCDF	85.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0304			13C-2,3,4,6,7,8-HxCDF	91.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0440			13C-1,2,3,7,8,9-HxCDF	88.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0486			13C-1,2,3,4,6,7,8-HpCDF	89.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0605			13C-1,2,3,4,7,8,9-HpCDF	83.5	26 - 138	
OCDF	ND	0.134			13C-OCDF	75.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	84.1	35 - 197	
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>			
					TEQMinWHO2005Dioxin	0.00		
<b>TOTALS</b>								
Total TCDD	ND	0.117						
Total PeCDD	ND	0.0712						
Total HxCDD	ND	0.0978						
Total HpCDD	ND	0.124						
Total TCDF	ND	0.0613						
Total PeCDF	ND	0.0454						
Total HxCDF	ND	0.0440						
Total HpCDF	ND	0.0605						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

The results are reported in dry weight. The sample size is reported in wet weight.

Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid Sample Size: 10.0 g		QC Batch: B9J0322 Date Extracted: 30-Oct-2019 11:02		Lab Sample: B9J0322-BS1 Date Analyzed: 17-Dec-19 14:39 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	20.6	20.0	103	67 - 158	IS 13C-2,3,7,8-TCDD	88.0	20 - 175
1,2,3,7,8-PeCDD	104	100	104	70 - 142	13C-1,2,3,7,8-PeCDD	89.1	21 - 227
1,2,3,4,7,8-HxCDD	109	100	109	70 - 164	13C-1,2,3,4,7,8-HxCDD	76.0	21 - 193
1,2,3,6,7,8-HxCDD	113	100	113	76 - 134	13C-1,2,3,6,7,8-HxCDD	75.1	25 - 163
1,2,3,7,8,9-HxCDD	109	100	109	64 - 162	13C-1,2,3,7,8,9-HxCDD	80.4	21 - 193
1,2,3,4,6,7,8-HpCDD	101	100	101	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	77.9	26 - 166
OCDD	215	200	107	78 - 144	13C-OCDD	68.6	13 - 199
2,3,7,8-TCDF	22.2	20.0	111	75 - 158	13C-2,3,7,8-TCDF	87.7	22 - 152
1,2,3,7,8-PeCDF	107	100	107	80 - 134	13C-1,2,3,7,8-PeCDF	82.7	21 - 192
2,3,4,7,8-PeCDF	111	100	111	68 - 160	13C-2,3,4,7,8-PeCDF	81.5	13 - 328
1,2,3,4,7,8-HxCDF	107	100	107	72 - 134	13C-1,2,3,4,7,8-HxCDF	82.1	19 - 202
1,2,3,6,7,8-HxCDF	115	100	115	84 - 130	13C-1,2,3,6,7,8-HxCDF	78.2	21 - 159
2,3,4,6,7,8-HxCDF	110	100	110	70 - 156	13C-2,3,4,6,7,8-HxCDF	84.7	22 - 176
1,2,3,7,8,9-HxCDF	109	100	109	78 - 130	13C-1,2,3,7,8,9-HxCDF	88.9	17 - 205
1,2,3,4,6,7,8-HpCDF	116	100	116	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	77.6	21 - 158
1,2,3,4,7,8,9-HpCDF	110	100	110	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	78.8	20 - 186
OCDF	197	200	98.6	63 - 170	13C-OCDF	75.3	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	75.9	31 - 191

LCL-UCL - Lower control limit - upper control limit

**Sample ID: PDI-032SC-A-00-01-191010** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903655-01      Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 12.2 g	QC Batch: B9J0322      Date Extracted: 30-Oct-2019 11:02
Date Collected: 10-Oct-2019 8:17	% Solids: 81.9	Date Analyzed : 02-Jan-20 19:16 Column: DB-225 18-Dec-19 04:30 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.258			IS 13C-2,3,7,8-TCDD	79.1	25 - 164	
1,2,3,7,8-PeCDD	0.387			J	13C-1,2,3,7,8-PeCDD	94.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.347			13C-1,2,3,4,7,8-HxCDD	65.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND		1.76		13C-1,2,3,6,7,8-HxCDD	71.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND		1.07		13C-1,2,3,7,8,9-HxCDD	68.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	40.2				13C-1,2,3,4,6,7,8-HpCDD	62.7	23 - 140	
OCDD	449				13C-OCDD	55.4	17 - 157	
2,3,7,8-TCDF	7.59				13C-2,3,7,8-TCDF	83.2	24 - 169	
1,2,3,7,8-PeCDF	16.5				13C-1,2,3,7,8-PeCDF	77.3	24 - 185	
2,3,4,7,8-PeCDF	8.82				13C-2,3,4,7,8-PeCDF	80.4	21 - 178	
1,2,3,4,7,8-HxCDF	37.5				13C-1,2,3,4,7,8-HxCDF	73.0	26 - 152	
1,2,3,6,7,8-HxCDF	11.1				13C-1,2,3,6,7,8-HxCDF	73.7	26 - 123	
2,3,4,6,7,8-HxCDF	2.19			J	13C-2,3,4,6,7,8-HxCDF	73.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND		1.27		13C-1,2,3,7,8,9-HxCDF	81.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	29.4				13C-1,2,3,4,6,7,8-HpCDF	70.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	7.73				13C-1,2,3,4,7,8,9-HpCDF	67.4	26 - 138	
OCDF	42.1				13C-OCDF	62.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	88.3	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
TEQMinWHO2005Dioxin      10.3

<b>TOTALS</b>		
Total TCDD	ND	0.265
Total PeCDD	0.387	1.27
Total HxCDD	13.2	16.0
Total HpCDD	80.7	
Total TCDF	29.3	33.6
Total PeCDF	46.2	47.2
Total HxCDF	67.4	70.4
Total HpCDF	60.1	

DL - Sample specific estimated detection limit  
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit  
The results are reported in dry weight. The sample size is reported in wet weight.  
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

**Sample ID: PDI-032SC-A-11-12-191010** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903655-02      Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 11.5 g	QC Batch: B9J0322      Date Extracted: 30-Oct-2019 11:02
Date Collected: 10-Oct-2019 8:17	% Solids: 87.2	Date Analyzed: 18-Dec-19 05:18      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.132			IS 13C-2,3,7,8-TCDD	90.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.103			13C-1,2,3,7,8-PeCDD	109	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.230			13C-1,2,3,4,7,8-HxCDD	72.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.208			13C-1,2,3,6,7,8-HxCDD	81.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.240			13C-1,2,3,7,8,9-HxCDD	86.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.92			J	13C-1,2,3,4,6,7,8-HpCDD	77.4	23 - 140	
OCDD	33.0				13C-OCDD	74.1	17 - 157	
2,3,7,8-TCDF	ND	0.0680			13C-2,3,7,8-TCDF	91.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0491			13C-1,2,3,7,8-PeCDF	88.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0428			13C-2,3,4,7,8-PeCDF	94.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0348			13C-1,2,3,4,7,8-HxCDF	85.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0382			13C-1,2,3,6,7,8-HxCDF	87.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0398			13C-2,3,4,6,7,8-HxCDF	85.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0604			13C-1,2,3,7,8,9-HxCDF	88.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0651			13C-1,2,3,4,6,7,8-HpCDF	84.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0862			13C-1,2,3,4,7,8,9-HpCDF	77.9	26 - 138	
OCDF	ND	0.146			13C-OCDF	95.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	85.7	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.0291

<b>TOTALS</b>			
Total TCDD	0.381		
Total PeCDD	ND	0.103	
Total HxCDD	1.37		1.38
Total HpCDD	6.49		
Total TCDF	ND	0.0680	
Total PeCDF	ND	0.0491	
Total HxCDF	ND	0.0604	
Total HpCDF	ND	0.0862	

DL - Sample specific estimated detection limit  
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit  
 The results are reported in dry weight. The sample size is reported in wet weight.  
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.



**Sample ID: PDI-032SC-A-12-12.8-191010** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903655-03      Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 14.0 g	QC Batch: B9J0322      Date Extracted: 30-Oct-2019 11:02
Date Collected: 10-Oct-2019 8:17	% Solids: 71.4	Date Analyzed: 18-Dec-19 06:08      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.184			IS 13C-2,3,7,8-TCDD	91.3	25 - 164	
1,2,3,7,8-PeCDD	ND	0.130			13C-1,2,3,7,8-PeCDD	110	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.183			13C-1,2,3,4,7,8-HxCDD	71.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.166			13C-1,2,3,6,7,8-HxCDD	82.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.203			13C-1,2,3,7,8,9-HxCDD	82.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.646			J	13C-1,2,3,4,6,7,8-HpCDD	81.7	23 - 140	
OCDD	4.70			J	13C-OCDD	95.7	17 - 157	
2,3,7,8-TCDF	ND	0.0766			13C-2,3,7,8-TCDF	84.2	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0528			13C-1,2,3,7,8-PeCDF	86.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0452			13C-2,3,4,7,8-PeCDF	85.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0536			13C-1,2,3,4,7,8-HxCDF	83.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0536			13C-1,2,3,6,7,8-HxCDF	85.2	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0527			13C-2,3,4,6,7,8-HxCDF	87.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0814			13C-1,2,3,7,8,9-HxCDF	91.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0456			13C-1,2,3,4,6,7,8-HpCDF	89.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0551			13C-1,2,3,4,7,8,9-HpCDF	82.5	26 - 138	
OCDF	ND	0.132			13C-OCDF	114	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	101	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**

TEQMinWHO2005Dioxin      0.00787

<b>TOTALS</b>			
Total TCDD	ND		0.196
Total PeCDD	ND	0.130	
Total HxCDD	ND		0.523
Total HpCDD	1.63		
Total TCDF	ND	0.0766	
Total PeCDF	ND	0.0528	
Total HxCDF	ND	0.0814	
Total HpCDF	ND	0.0551	

DL - Sample specific estimated detection limit  
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit  
The results are reported in dry weight. The sample size is reported in wet weight.  
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

**Sample ID: PDI-035SC-A-00-01-191010** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903655-06      Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 15.9 g	QC Batch: B9J0322      Date Extracted: 30-Oct-2019 11:02
Date Collected: 10-Oct-2019 14:18	% Solids: 62.9	Date Analyzed : 02-Jan-20 21:57 Column: DB-225 18-Dec-19 06:56 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	2.25				IS 13C-2,3,7,8-TCDD	70.5	25 - 164	
1,2,3,7,8-PeCDD	ND		3.23		13C-1,2,3,7,8-PeCDD	78.2	25 - 181	
1,2,3,4,7,8-HxCDD	10.3				13C-1,2,3,4,7,8-HxCDD	57.3	32 - 141	
1,2,3,6,7,8-HxCDD	60.3				13C-1,2,3,6,7,8-HxCDD	66.3	28 - 130	
1,2,3,7,8,9-HxCDD	20.4				13C-1,2,3,7,8,9-HxCDD	66.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	5080			D	13C-1,2,3,4,6,7,8-HpCDD	64.4	23 - 140	D
OCDD	30700			D	13C-OCDD	49.0	17 - 157	D
2,3,7,8-TCDF	88.1				13C-2,3,7,8-TCDF	68.8	24 - 169	
1,2,3,7,8-PeCDF	186				13C-1,2,3,7,8-PeCDF	60.9	24 - 185	
2,3,4,7,8-PeCDF	99.6				13C-2,3,4,7,8-PeCDF	67.0	21 - 178	
1,2,3,4,7,8-HxCDF	339				13C-1,2,3,4,7,8-HxCDF	66.3	26 - 152	
1,2,3,6,7,8-HxCDF	92.9				13C-1,2,3,6,7,8-HxCDF	67.6	26 - 123	
2,3,4,6,7,8-HxCDF	22.0				13C-2,3,4,6,7,8-HxCDF	64.4	28 - 136	
1,2,3,7,8,9-HxCDF	12.4				13C-1,2,3,7,8,9-HxCDF	66.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	297				13C-1,2,3,4,6,7,8-HpCDF	58.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	65.9				13C-1,2,3,4,7,8,9-HpCDF	60.1	26 - 138	
OCDF	987				13C-OCDF	61.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	66.3	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**

TEQMinWHO2005Dioxin      166

<b>TOTALS</b>			
Total TCDD	26.3	31.8	
Total PeCDD	62.8	66.3	
Total HxCDD	1270		
Total HpCDD	11600		
Total TCDF	350	363	
Total PeCDF	547		
Total HxCDF	712	715	
Total HpCDF	1250		

DL - Sample specific estimated detection limit  
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit  
The results are reported in dry weight. The sample size is reported in wet weight.  
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

**Sample ID: PDI-035SC-A-11-12-191010** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903655-07      Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 11.9 g	QC Batch: B9J0322      Date Extracted: 30-Oct-2019 11:02
Date Collected: 10-Oct-2019 14:18	% Solids: 84.2	Date Analyzed: 18-Dec-19 07:44      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.146			IS 13C-2,3,7,8-TCDD	104	25 - 164	
1,2,3,7,8-PeCDD	ND	0.119			13C-1,2,3,7,8-PeCDD	138	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.140			13C-1,2,3,4,7,8-HxCDD	78.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.135			13C-1,2,3,6,7,8-HxCDD	89.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.148			13C-1,2,3,7,8,9-HxCDD	95.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.945			J	13C-1,2,3,4,6,7,8-HpCDD	95.5	23 - 140	
OCDD	6.62				13C-OCDD	72.9	17 - 157	
2,3,7,8-TCDF	ND	0.136			13C-2,3,7,8-TCDF	89.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0721			13C-1,2,3,7,8-PeCDF	113	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0700			13C-2,3,4,7,8-PeCDF	119	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0525			13C-1,2,3,4,7,8-HxCDF	100	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0517			13C-1,2,3,6,7,8-HxCDF	99.2	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0552			13C-2,3,4,6,7,8-HxCDF	96.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0803			13C-1,2,3,7,8,9-HxCDF	109	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0551			13C-1,2,3,4,6,7,8-HpCDF	94.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0786			13C-1,2,3,4,7,8,9-HpCDF	89.3	26 - 138	
OCDF	ND	0.159			13C-OCDF	93.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	113	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.0114

<b>TOTALS</b>								
Total TCDD	ND	0.146						
Total PeCDD	ND		0.190					
Total HxCDD	0.325							
Total HpCDD	2.40							
Total TCDF	ND	0.136						
Total PeCDF	ND	0.0721						
Total HxCDF	ND	0.0803						
Total HpCDF	ND		0.110					

DL - Sample specific estimated detection limit  
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit  
 The results are reported in dry weight. The sample size is reported in wet weight.  
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

**Sample ID: PDI-035SC-A-12-12.7-191010** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903655-08      Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 13.4 g	QC Batch: B9J0322      Date Extracted: 30-Oct-2019 11:02
Date Collected: 10-Oct-2019 14:18	% Solids: 74.6	Date Analyzed : 18-Dec-19 08:32      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.196			IS 13C-2,3,7,8-TCDD	78.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0897			13C-1,2,3,7,8-PeCDD	91.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.138			13C-1,2,3,4,7,8-HxCDD	58.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.127			13C-1,2,3,6,7,8-HxCDD	63.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.164			13C-1,2,3,7,8,9-HxCDD	62.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.283			13C-1,2,3,4,6,7,8-HpCDD	64.3	23 - 140	
OCDD	1.18			J	13C-OCDD	64.6	17 - 157	
2,3,7,8-TCDF	ND	0.0783			13C-2,3,7,8-TCDF	71.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0549			13C-1,2,3,7,8-PeCDF	72.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0479			13C-2,3,4,7,8-PeCDF	74.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0487			13C-1,2,3,4,7,8-HxCDF	69.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0504			13C-1,2,3,6,7,8-HxCDF	72.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0515			13C-2,3,4,6,7,8-HxCDF	70.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0732			13C-1,2,3,7,8,9-HxCDF	74.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0465			13C-1,2,3,4,6,7,8-HpCDF	70.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0699			13C-1,2,3,4,7,8,9-HpCDF	64.8	26 - 138	
OCDF	ND	0.146			13C-OCDF	75.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	100	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**

TEQMinWHO2005Dioxin      0.000354

<b>TOTALS</b>		
Total TCDD	ND	0.196
Total PeCDD	ND	0.0897
Total HxCDD	ND	0.164
Total HpCDD	ND	0.283
Total TCDF	ND	0.0783
Total PeCDF	ND	0.0549
Total HxCDF	ND	0.0732
Total HpCDF	ND	0.0699

DL - Sample specific estimated detection limit  
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit  
The results are reported in dry weight. The sample size is reported in wet weight.  
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

**Sample ID: PDI-041SC-A-12-13-191010** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903655-09      Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 11.8 g	QC Batch: B9J0322      Date Extracted: 30-Oct-2019 11:02
Date Collected: 10-Oct-2019 9:56	% Solids: 84.8	Date Analyzed : 18-Dec-19 09:20      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.208			IS 13C-2,3,7,8-TCDD	85.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.108			13C-1,2,3,7,8-PeCDD	112	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.186			13C-1,2,3,4,7,8-HxCDD	68.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.176			13C-1,2,3,6,7,8-HxCDD	74.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.214			13C-1,2,3,7,8,9-HxCDD	71.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.376			13C-1,2,3,4,6,7,8-HpCDD	64.1	23 - 140	
OCDD	ND	0.641			13C-OCDD	64.8	17 - 157	
2,3,7,8-TCDF	ND	0.108			13C-2,3,7,8-TCDF	82.5	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0732			13C-1,2,3,7,8-PeCDF	87.8	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0606			13C-2,3,4,7,8-PeCDF	90.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0834			13C-1,2,3,4,7,8-HxCDF	81.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0833			13C-1,2,3,6,7,8-HxCDF	82.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0880			13C-2,3,4,6,7,8-HxCDF	82.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.129			13C-1,2,3,7,8,9-HxCDF	81.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0613			13C-1,2,3,4,6,7,8-HpCDF	73.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0784			13C-1,2,3,4,7,8,9-HpCDF	67.9	26 - 138	
OCDF	ND	0.277			13C-OCDF	75.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	95.8	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**

TEQMinWHO2005Dioxin      0.00

<b>TOTALS</b>		
Total TCDD	ND	0.208
Total PeCDD	ND	0.108
Total HxCDD	ND	0.214
Total HpCDD	ND	0.376
Total TCDF	ND	0.108
Total PeCDF	ND	0.0732
Total HxCDF	ND	0.129
Total HpCDF	ND	0.0784

DL - Sample specific estimated detection limit  
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit  
The results are reported in dry weight. The sample size is reported in wet weight.  
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

**Sample ID: PDI-041SC-A-13-14.2-191010** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903655-10      Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 14.5 g	QC Batch: B9J0322      Date Extracted: 30-Oct-2019 11:02
Date Collected: 10-Oct-2019 9:56	% Solids: 69.6	Date Analyzed : 18-Dec-19 10:08      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.173			IS 13C-2,3,7,8-TCDD	86.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.143			13C-1,2,3,7,8-PeCDD	90.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.256			13C-1,2,3,4,7,8-HxCDD	66.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.243			13C-1,2,3,6,7,8-HxCDD	73.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.305			13C-1,2,3,7,8,9-HxCDD	68.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.301			13C-1,2,3,4,6,7,8-HpCDD	63.7	23 - 140	
OCDD	1.26			J	13C-OCDD	63.6	17 - 157	
2,3,7,8-TCDF	ND	0.0755			13C-2,3,7,8-TCDF	85.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0581			13C-1,2,3,7,8-PeCDF	75.2	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0539			13C-2,3,4,7,8-PeCDF	76.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.142			13C-1,2,3,4,7,8-HxCDF	79.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.145			13C-1,2,3,6,7,8-HxCDF	80.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.152			13C-2,3,4,6,7,8-HxCDF	79.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.231			13C-1,2,3,7,8,9-HxCDF	81.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.112			13C-1,2,3,4,6,7,8-HpCDF	79.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.160			13C-1,2,3,4,7,8,9-HpCDF	74.0	26 - 138	
OCDF	ND	0.175			13C-OCDF	72.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	109	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.000378

<b>TOTALS</b>		
Total TCDD	ND	0.173
Total PeCDD	ND	0.143
Total HxCDD	0.184	
Total HpCDD	ND	0.301
Total TCDF	ND	0.0755
Total PeCDF	ND	0.0581
Total HxCDF	ND	0.231
Total HpCDF	ND	0.160

DL - Sample specific estimated detection limit  
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit  
 The results are reported in dry weight. The sample size is reported in wet weight.  
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

**Sample ID: PDI-045SC-A-12-13-191010** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903655-11      Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 13.2 g	QC Batch: B9J0322      Date Extracted: 30-Oct-2019 11:02
Date Collected: 10-Oct-2019 17:36	% Solids: 75.9	Date Analyzed: 18-Dec-19 10:57      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.237			IS 13C-2,3,7,8-TCDD	54.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.158			13C-1,2,3,7,8-PeCDD	62.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.167			13C-1,2,3,4,7,8-HxCDD	42.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.158			13C-1,2,3,6,7,8-HxCDD	46.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.193			13C-1,2,3,7,8,9-HxCDD	45.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.315			13C-1,2,3,4,6,7,8-HpCDD	43.1	23 - 140	
OCDD	ND	0.573			13C-OCDD	42.8	17 - 157	
2,3,7,8-TCDF	ND	0.116			13C-2,3,7,8-TCDF	51.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0731			13C-1,2,3,7,8-PeCDF	50.0	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0636			13C-2,3,4,7,8-PeCDF	51.5	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0529			13C-1,2,3,4,7,8-HxCDF	51.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0605			13C-1,2,3,6,7,8-HxCDF	53.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0597			13C-2,3,4,6,7,8-HxCDF	53.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0803			13C-1,2,3,7,8,9-HxCDF	54.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0793			13C-1,2,3,4,6,7,8-HpCDF	50.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.122			13C-1,2,3,4,7,8,9-HpCDF	41.9	26 - 138	
OCDF	ND	0.275			13C-OCDF	48.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	97.2	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**

TEQMinWHO2005Dioxin      0.00

<b>TOTALS</b>		
Total TCDD	ND	0.237
Total PeCDD	ND	0.158
Total HxCDD	ND	0.193
Total HpCDD	ND	0.315
Total TCDF	ND	0.116
Total PeCDF	ND	0.0731
Total HxCDF	ND	0.0803
Total HpCDF	ND	0.122

DL - Sample specific estimated detection limit  
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit  
The results are reported in dry weight. The sample size is reported in wet weight.  
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

**Sample ID: PDI-045SC-A-13-13.6-191010** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903655-12      Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 14.0 g	QC Batch: B9J0322      Date Extracted: 30-Oct-2019 11:02
Date Collected: 10-Oct-2019 17:36	% Solids: 71.7	Date Analyzed: 18-Dec-19 11:45      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.198			IS 13C-2,3,7,8-TCDD	89.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.141			13C-1,2,3,7,8-PeCDD	98.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.211			13C-1,2,3,4,7,8-HxCDD	65.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.192			13C-1,2,3,6,7,8-HxCDD	76.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.250			13C-1,2,3,7,8,9-HxCDD	75.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.346			13C-1,2,3,4,6,7,8-HpCDD	71.2	23 - 140	
OCDD	2.30			J	13C-OCDD	73.8	17 - 157	
2,3,7,8-TCDF	ND	0.0823			13C-2,3,7,8-TCDF	80.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0663			13C-1,2,3,7,8-PeCDF	76.9	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0587			13C-2,3,4,7,8-PeCDF	79.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0463			13C-1,2,3,4,7,8-HxCDF	76.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0471			13C-1,2,3,6,7,8-HxCDF	80.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0517			13C-2,3,4,6,7,8-HxCDF	83.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0741			13C-1,2,3,7,8,9-HxCDF	83.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0542			13C-1,2,3,4,6,7,8-HpCDF	82.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0739			13C-1,2,3,4,7,8,9-HpCDF	74.2	26 - 138	
OCDF	ND	0.172			13C-OCDF	91.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	87.2	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.000690

<b>TOTALS</b>								
Total TCDD	ND	0.198						
Total PeCDD	ND	0.141						
Total HxCDD	ND		0.207					
Total HpCDD	ND		0.384					
Total TCDF	ND	0.0823						
Total PeCDF	ND	0.0663						
Total HxCDF	ND	0.0741						
Total HpCDF	ND	0.0739						

DL - Sample specific estimated detection limit  
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit  
 The results are reported in dry weight. The sample size is reported in wet weight.  
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.



**Sample ID: PDI-067SC-A-12-13-191010** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903655-13      Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 14.6 g	QC Batch: B9J0322      Date Extracted: 30-Oct-2019 11:02
Date Collected: 10-Oct-2019 15:59	% Solids: 68.7	Date Analyzed : 18-Dec-19 12:35      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.211			IS 13C-2,3,7,8-TCDD	77.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.235			13C-1,2,3,7,8-PeCDD	90.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.295			13C-1,2,3,4,7,8-HxCDD	58.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.283			13C-1,2,3,6,7,8-HxCDD	64.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.349			13C-1,2,3,7,8,9-HxCDD	62.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	7.00				13C-1,2,3,4,6,7,8-HpCDD	54.3	23 - 140	
OCDD	61.3				13C-OCDD	44.8	17 - 157	
2,3,7,8-TCDF	ND		0.296		13C-2,3,7,8-TCDF	79.0	24 - 169	
1,2,3,7,8-PeCDF	ND		0.438		13C-1,2,3,7,8-PeCDF	72.4	24 - 185	
2,3,4,7,8-PeCDF	0.257			J	13C-2,3,4,7,8-PeCDF	75.7	21 - 178	
1,2,3,4,7,8-HxCDF	0.478			J	13C-1,2,3,4,7,8-HxCDF	72.1	26 - 152	
1,2,3,6,7,8-HxCDF	0.138			J	13C-1,2,3,6,7,8-HxCDF	78.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.173			13C-2,3,4,6,7,8-HxCDF	73.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.253			13C-1,2,3,7,8,9-HxCDF	68.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.346		13C-1,2,3,4,6,7,8-HpCDF	63.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.335			13C-1,2,3,4,7,8,9-HpCDF	57.9	26 - 138	
OCDF	ND		1.67		13C-OCDF	54.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	91.7	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**

TEQMinWHO2005Dioxin      0.227

<b>TOTALS</b>								
Total TCDD	ND	0.211						
Total PeCDD	ND	0.235						
Total HxCDD	0.917		1.46					
Total HpCDD	19.9							
Total TCDF	0.126		1.17					
Total PeCDF	0.526		1.01					
Total HxCDF	0.616		0.773					
Total HpCDF	1.23		1.58					

DL - Sample specific estimated detection limit  
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit  
The results are reported in dry weight. The sample size is reported in wet weight.  
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

**Sample ID: PDI-067SC-A-13-13.8-191010** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903655-14      Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 14.7 g	QC Batch: B9J0322      Date Extracted: 30-Oct-2019 11:02
Date Collected: 10-Oct-2019 15:59	% Solids: 68.2	Date Analyzed: 18-Dec-19 13:23      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.148			IS 13C-2,3,7,8-TCDD	89.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.127			13C-1,2,3,7,8-PeCDD	104	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.223			13C-1,2,3,4,7,8-HxCDD	67.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.220			13C-1,2,3,6,7,8-HxCDD	77.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.266			13C-1,2,3,7,8,9-HxCDD	73.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.347			13C-1,2,3,4,6,7,8-HpCDD	76.8	23 - 140	
OCDD	2.80			J	13C-OCDD	73.1	17 - 157	
2,3,7,8-TCDF	ND	0.0614			13C-2,3,7,8-TCDF	87.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0423			13C-1,2,3,7,8-PeCDF	77.8	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0413			13C-2,3,4,7,8-PeCDF	81.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0358			13C-1,2,3,4,7,8-HxCDF	79.7	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0365			13C-1,2,3,6,7,8-HxCDF	85.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0358			13C-2,3,4,6,7,8-HxCDF	86.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0553			13C-1,2,3,7,8,9-HxCDF	88.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0546			13C-1,2,3,4,6,7,8-HpCDF	82.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0689			13C-1,2,3,4,7,8,9-HpCDF	82.3	26 - 138	
OCDF	ND	0.137			13C-OCDF	93.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	97.3	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.000840

<b>TOTALS</b>								
Total TCDD	ND	0.148						
Total PeCDD	ND	0.127						
Total HxCDD	ND		0.112					
Total HpCDD	ND	0.347						
Total TCDF	ND	0.0614						
Total PeCDF	ND	0.0423						
Total HxCDF	ND	0.0553						
Total HpCDF	ND	0.0689						

DL - Sample specific estimated detection limit  
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit  
 The results are reported in dry weight. The sample size is reported in wet weight.  
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Aqueous Sample Size: 1.00 L		QC Batch: B9J0251 Date Extracted: 23-Oct-2019 7:01		Lab Sample: B9J0251-BLK1 Date Analyzed: 28-Oct-19 17:01 Column: ZB-5MS				
Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.738			IS 13C-2,3,7,8-TCDD	90.3	25 - 164	
1,2,3,7,8-PeCDD	ND	0.939			13C-1,2,3,7,8-PeCDD	98.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	1.05			13C-1,2,3,4,7,8-HxCDD	94.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	1.10			13C-1,2,3,6,7,8-HxCDD	80.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	1.19			13C-1,2,3,7,8,9-HxCDD	84.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	1.46			13C-1,2,3,4,6,7,8-HpCDD	79.2	23 - 140	
OCDD	ND	2.68			13C-OCDD	43.5	17 - 157	
2,3,7,8-TCDF	ND	0.662			13C-2,3,7,8-TCDF	86.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.684			13C-1,2,3,7,8-PeCDF	92.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.642			13C-2,3,4,7,8-PeCDF	90.5	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.456			13C-1,2,3,4,7,8-HxCDF	98.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.471			13C-1,2,3,6,7,8-HxCDF	90.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.514			13C-2,3,4,6,7,8-HxCDF	90.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.590			13C-1,2,3,7,8,9-HxCDF	95.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.651			13C-1,2,3,4,6,7,8-HpCDF	85.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.564			13C-1,2,3,4,7,8,9-HpCDF	92.5	26 - 138	
OCDF	ND	2.15			13C-OCDF	53.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	96.1	35 - 197	
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/L)</b>			
					TEQMinWHO2005Dioxin 0.00			
<b>TOTALS</b>								
Total TCDD	ND	0.738						
Total PeCDD	ND	0.939						
Total HxCDD	ND	1.12						
Total HpCDD	ND	1.46						
Total TCDF	ND	0.662						
Total PeCDF	ND	0.663						
Total HxCDF	ND	0.505						
Total HpCDF	ND	0.610						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: OPR					EPA Method 1613B		
Matrix: Aqueous	QC Batch: B9J0251	Lab Sample: B9J0251-BS1					
Sample Size: 1.00 L	Date Extracted: 23-Oct-2019 7:01	Date Analyzed: 28-Oct-19 14:37	Column: ZB-5MS				
Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	227	200	114	67 - 158	IS 13C-2,3,7,8-TCDD	97.1	20 - 175
1,2,3,7,8-PeCDD	1050	1000	105	70 - 142	13C-1,2,3,7,8-PeCDD	102	21 - 227
1,2,3,4,7,8-HxCDD	1060	1000	106	70 - 164	13C-1,2,3,4,7,8-HxCDD	92.4	21 - 193
1,2,3,6,7,8-HxCDD	1100	1000	110	76 - 134	13C-1,2,3,6,7,8-HxCDD	80.7	25 - 163
1,2,3,7,8,9-HxCDD	1050	1000	105	64 - 162	13C-1,2,3,7,8,9-HxCDD	85.1	21 - 193
1,2,3,4,6,7,8-HpCDD	1060	1000	106	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	89.3	26 - 166
OCDD	2160	2000	108	78 - 144	13C-OCDD	71.5	13 - 199
2,3,7,8-TCDF	210	200	105	75 - 158	13C-2,3,7,8-TCDF	94.2	22 - 152
1,2,3,7,8-PeCDF	1080	1000	108	80 - 134	13C-1,2,3,7,8-PeCDF	92.8	21 - 192
2,3,4,7,8-PeCDF	1040	1000	104	68 - 160	13C-2,3,4,7,8-PeCDF	97.3	13 - 328
1,2,3,4,7,8-HxCDF	1040	1000	104	72 - 134	13C-1,2,3,4,7,8-HxCDF	96.3	19 - 202
1,2,3,6,7,8-HxCDF	1040	1000	104	84 - 130	13C-1,2,3,6,7,8-HxCDF	92.3	21 - 159
2,3,4,6,7,8-HxCDF	1100	1000	110	70 - 156	13C-2,3,4,6,7,8-HxCDF	90.7	22 - 176
1,2,3,7,8,9-HxCDF	1050	1000	105	78 - 130	13C-1,2,3,7,8,9-HxCDF	92.8	17 - 205
1,2,3,4,6,7,8-HpCDF	1030	1000	103	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	96.1	21 - 158
1,2,3,4,7,8,9-HpCDF	1010	1000	101	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	98.6	20 - 186
OCDF	2140	2000	107	63 - 170	13C-OCDF	88.1	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	102	31 - 191

LCL-UCL - Lower control limit - upper control limit

**Sample ID: PDI-FB-1910101246** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: QC Water	Lab Sample: 1903655-04      Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 1.03 L	QC Batch: B9J0251      Date Extracted: 23-Oct-2019 7:01
Date Collected: 10-Oct-2019 12:46		Date Analyzed : 28-Oct-19 18:36      Column: ZB-5MS

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.644			IS 13C-2,3,7,8-TCDD	104	25 - 164	
1,2,3,7,8-PeCDD	ND	0.717			13C-1,2,3,7,8-PeCDD	103	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.750			13C-1,2,3,4,7,8-HxCDD	95.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.845			13C-1,2,3,6,7,8-HxCDD	83.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.776			13C-1,2,3,7,8,9-HxCDD	86.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	1.07			13C-1,2,3,4,6,7,8-HpCDD	88.8	23 - 140	
OCDD	ND	2.01			13C-OCDD	73.3	17 - 157	
2,3,7,8-TCDF	ND	0.414			13C-2,3,7,8-TCDF	102	24 - 169	
1,2,3,7,8-PeCDF	ND	0.789			13C-1,2,3,7,8-PeCDF	103	24 - 185	
2,3,4,7,8-PeCDF	ND	0.706			13C-2,3,4,7,8-PeCDF	103	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.420			13C-1,2,3,4,7,8-HxCDF	103	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.412			13C-1,2,3,6,7,8-HxCDF	95.2	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.437			13C-2,3,4,6,7,8-HxCDF	97.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.556			13C-1,2,3,7,8,9-HxCDF	99.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.516			13C-1,2,3,4,6,7,8-HpCDF	99.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.468			13C-1,2,3,4,7,8,9-HpCDF	103	26 - 138	
OCDF	ND	1.29			13C-OCDF	86.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	106	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/L)**

TEQMinWHO2005Dioxin      0.00

<b>TOTALS</b>		
Total TCDD	ND	0.644
Total PeCDD	ND	0.717
Total HxCDD	ND	0.793
Total HpCDD	ND	1.07
Total TCDF	ND	0.414
Total PeCDF	ND	0.746
Total HxCDF	ND	0.453
Total HpCDF	ND	0.494

DL - Sample specific estimated detection limit  
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit  
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

**Sample ID: PDI-RB-1910101241** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: QC Water	Lab Sample: 1903655-05      Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 1.00 L	QC Batch: B9J0251      Date Extracted: 23-Oct-2019 7:01
Date Collected: 10-Oct-2019 12:41		Date Analyzed : 28-Oct-19 19:24      Column: ZB-5MS

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.758			IS 13C-2,3,7,8-TCDD	100	25 - 164	
1,2,3,7,8-PeCDD	ND	0.626			13C-1,2,3,7,8-PeCDD	100	25 - 181	
1,2,3,4,7,8-HxCDD	ND	1.22			13C-1,2,3,4,7,8-HxCDD	88.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	1.34			13C-1,2,3,6,7,8-HxCDD	76.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND	1.37			13C-1,2,3,7,8,9-HxCDD	76.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	1.81			13C-1,2,3,4,6,7,8-HpCDD	70.8	23 - 140	
OCDD	ND	2.23			13C-OCDD	55.4	17 - 157	
2,3,7,8-TCDF	ND	0.510			13C-2,3,7,8-TCDF	99.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.871			13C-1,2,3,7,8-PeCDF	95.9	24 - 185	
2,3,4,7,8-PeCDF	ND	0.744			13C-2,3,4,7,8-PeCDF	98.5	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.432			13C-1,2,3,4,7,8-HxCDF	92.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.410			13C-1,2,3,6,7,8-HxCDF	87.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.457			13C-2,3,4,6,7,8-HxCDF	89.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.608			13C-1,2,3,7,8,9-HxCDF	92.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.871			13C-1,2,3,4,6,7,8-HpCDF	79.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.805			13C-1,2,3,4,7,8,9-HpCDF	82.9	26 - 138	
OCDF	ND	1.75			13C-OCDF	64.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	96.0	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/L)**

TEQMinWHO2005Dioxin      0.00

<b>TOTALS</b>		
Total TCDD	ND	0.758
Total PeCDD	ND	0.626
Total HxCDD	ND	1.32
Total HpCDD	ND	1.81
Total TCDF	ND	0.510
Total PeCDF	ND	0.805
Total HxCDF	ND	0.472
Total HpCDF	ND	0.841

DL - Sample specific estimated detection limit  
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit  
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

**Sample ID: Method Blank**

**EPA Method 1668C**

Matrix: Solid	QC Batch: B9K0010	Lab Sample: B9K0010-BLK1
Sample Size: 5.00 g	Date Extracted: 04-Nov-2019 7:36	Date Analyzed: 06-Nov-19 20:04 Column: ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-1	ND	0.190			PCB-44	ND	0.422		
PCB-2	ND	0.193			PCB-45	ND	0.432		
PCB-3	ND	0.194			PCB-46	ND	0.463		
PCB-4/10	ND	1.56			PCB-47	ND		0.925	
PCB-5/8	ND	1.25			PCB-48/75	ND	0.313		
PCB-6	ND	1.24			PCB-50	ND	0.362		
PCB-7/9	ND	1.30			PCB-51	ND	0.341		
PCB-11	ND	1.12			PCB-52/69	ND	0.320		
PCB-12/13	ND	1.19			PCB-53	ND	0.365		
PCB-14	ND	1.19			PCB-54	ND	0.284		
PCB-15	ND	1.20			PCB-55	ND	0.271		
PCB-16/32	ND	0.358			PCB-56/60	ND	0.309		
PCB-17	ND	0.426			PCB-57	ND	0.286		
PCB-18	ND	0.410			PCB-58	ND	0.270		
PCB-19	ND	0.443			PCB-61/70	ND	0.304		
PCB-20/21/33	ND	0.416			PCB-62	ND	0.301		
PCB-22	ND	0.404			PCB-63	ND	0.312		
PCB-23	ND	0.429			PCB-65	ND	0.289		
PCB-24/27	ND	0.310			PCB-66/76	ND	0.281		
PCB-25	ND	0.427			PCB-67	ND	0.302		
PCB-26	ND	0.417			PCB-68	ND	0.289		
PCB-28	ND	0.378			PCB-73	ND	0.271		
PCB-29	ND	0.438			PCB-74	ND	0.282		
PCB-30	ND	0.279			PCB-77	ND	0.298		
PCB-31	ND	0.372			PCB-78	ND	0.301		
PCB-34	ND	0.423			PCB-79	ND	0.277		
PCB-35	ND	0.368			PCB-80	ND	0.267		
PCB-36	ND	0.354			PCB-81	ND	0.333		
PCB-37	ND	0.376			PCB-82	ND	0.596		
PCB-38	ND	0.369			PCB-83	ND	0.362		
PCB-39	ND	0.384			PCB-84/92	ND	0.540		
PCB-40	ND	0.556			PCB-85/116	ND	0.461		
PCB-41/64/71/72	ND	0.297			PCB-86	ND	0.563		
PCB-42/59	ND	0.334			PCB-87/117/125	ND	0.420		
PCB-43/49	ND	0.371			PCB-88/91	ND	0.502		

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
individual congeners for qualifiers.

See

**Sample ID: Method Blank**

**EPA Method 1668C**

Matrix: Solid	QC Batch: B9K0010	Lab Sample: B9K0010-BLK1
Sample Size: 5.00 g	Date Extracted: 04-Nov-2019 7:36	Date Analyzed: 06-Nov-19 20:04 Column: ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-89	ND	0.495			PCB-137	ND	0.319		
PCB-90/101	ND	0.503			PCB-138/163/164	ND	0.264		
PCB-93	ND	0.530			PCB-139/149	ND	0.429		
PCB-94	ND	0.577			PCB-140	ND	0.505		
PCB-95/98/102	ND	0.440			PCB-141	ND	0.325		
PCB-96	ND	0.331			PCB-142	ND	0.371		
PCB-97	ND	0.521			PCB-144	ND	0.475		
PCB-99	ND	0.424			PCB-145	ND	0.317		
PCB-100	ND	0.424			PCB-146/165	ND	0.274		
PCB-103	ND	0.426			PCB-147	ND	0.479		
PCB-104	ND	0.331			PCB-148	ND	0.457		
PCB-105	ND	0.309			PCB-150	ND	0.359		
PCB-106/118	ND	0.369			PCB-151	ND	0.501		
PCB-107/109	ND	0.344			PCB-152	ND	0.315		
PCB-108/112	ND	0.448			PCB-153	ND	0.260		
PCB-110	ND	0.377			PCB-154	ND	0.437		
PCB-111/115	ND	0.350			PCB-155	ND	0.362		
PCB-113	ND	0.386			PCB-156	ND	0.263		
PCB-114	ND	0.298			PCB-157	ND	0.283		
PCB-119	ND	0.381			PCB-158/160	ND	0.275		
PCB-120	ND	0.333			PCB-159	ND	0.250		
PCB-121	ND	0.322			PCB-166	ND	0.262		
PCB-122	ND	0.356			PCB-167	ND	0.259		
PCB-123	ND	0.386			PCB-168	ND	0.258		
PCB-124	ND	0.345			PCB-169	ND	0.296		
PCB-126	ND	0.318			PCB-170	ND	0.389		
PCB-127	ND	0.306			PCB-171	ND	0.365		
PCB-128/162	ND	0.329			PCB-172	ND	0.346		
PCB-129	ND	0.396			PCB-173	ND	0.397		
PCB-130	ND	0.374			PCB-174	ND	0.372		
PCB-131/133	ND	0.333			PCB-175	ND	0.295		
PCB-132/161	ND	0.270			PCB-176	ND	0.216		
PCB-134/143	ND	0.358			PCB-177	ND	0.365		
PCB-135	ND	0.442			PCB-178	ND	0.301		
PCB-136	ND	0.375			PCB-179	ND	0.213		

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
individual congeners for qualifiers.

See



**Sample ID: Method Blank**

**EPA Method 1668C**

Matrix: Solid	QC Batch: B9K0010	Lab Sample: B9K0010-BLK1
Sample Size: 5.00 g	Date Extracted: 04-Nov-2019 7:36	Date Analyzed: 06-Nov-19 20:04 Column: ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-180	ND	0.343			Total octaCB	ND	0.240	0.454	
PCB-181	ND	0.320			Total nonaCB	0.415			
PCB-182/187	ND	0.261			DecaCB	ND	0.151		
PCB-183	ND	0.262			Total PCB	0.415			
PCB-184	ND	0.215							
PCB-185	ND	0.343							
PCB-186	ND	0.206							
PCB-188	ND	0.210							
PCB-189	ND	0.284							
PCB-190	ND	0.288							
PCB-191	ND	0.288							
PCB-192	ND	0.266							
PCB-193	ND	0.294							
PCB-194	ND		0.454						
PCB-195	ND	0.177							
PCB-196/203	ND	0.216							
PCB-197	ND	0.173							
PCB-198	ND	0.227							
PCB-199	ND	0.240							
PCB-200	ND	0.178							
PCB-201	ND	0.185							
PCB-202	ND	0.166							
PCB-204	ND	0.173							
PCB-205	ND	0.130							
PCB-206	0.415			J					
PCB-207	ND	0.135							
PCB-208	ND	0.132							
PCB-209	ND	0.151							
Total monoCB	ND	0.194							
Total diCB	ND	1.56							
Total triCB	ND	0.443							
Total tetraCB	ND	0.556	0.925						
Total pentaCB	ND	0.596							
Total hexaCB	ND	0.505							
Total heptaCB	ND	0.397							

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
individual congeners for qualifiers.

See

**Sample ID: Method Blank**

**EPA Method 1668C**

Matrix: Solid	QC Batch: B9K0010	Lab Sample: B9K0010-BLK1
Sample Size: 5.00 g	Date Extracted: 04-Nov-2019 7:36	Date Analyzed: 06-Nov-19 20:04 Column: ZB-1

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	61.1	5-145		13C-PCB-157	83.0	10-145	
13C-PCB-3	64.0	5-145		13C-PCB-159	80.3	10-145	
13C-PCB-4	66.3	5-145		13C-PCB-167	82.7	10-145	
13C-PCB-11	75.7	5-145		13C-PCB-169	74.9	10-145	
13C-PCB-9	67.6	5-145		13C-PCB-170	79.5	10-145	
13C-PCB-19	77.7	5-145		13C-PCB-180	85.9	10-145	
13C-PCB-28	76.9	5-145		13C-PCB-188	93.3	10-145	
13C-PCB-32	81.4	5-145		13C-PCB-189	73.3	10-145	
13C-PCB-37	88.4	5-145		13C-PCB-194	85.6	10-145	
13C-PCB-47	88.6	5-145		13C-PCB-202	68.6	10-145	
13C-PCB-52	86.7	5-145		13C-PCB-206	93.7	10-145	
13C-PCB-54	81.9	5-145		13C-PCB-208	85.0	10-145	
13C-PCB-70	88.1	5-145		13C-PCB-209	84.3	10-145	
13C-PCB-77	91.3	10-145		CRS 13C-PCB-79	88.0	10-145	
13C-PCB-80	85.6	10-145		13C-PCB-178	78.4	10-145	
13C-PCB-81	86.9	10-145					
13C-PCB-95	82.0	10-145					
13C-PCB-97	79.8	10-145					
13C-PCB-101	78.6	10-145					
13C-PCB-104	86.3	10-145					
13C-PCB-105	79.5	10-145					
13C-PCB-114	81.1	10-145					
13C-PCB-118	82.6	10-145					
13C-PCB-123	86.2	10-145					
13C-PCB-126	79.5	10-145					
13C-PCB-127	80.6	10-145					
13C-PCB-138	82.4	10-145					
13C-PCB-141	87.7	10-145					
13C-PCB-153	84.2	10-145					
13C-PCB-155	59.8	10-145					
13C-PCB-156	82.4	10-145					

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
individual congeners for qualifiers.

See

**Sample ID: OPR**

**EPA Method 1668C**

Matrix: Solid  
Sample Size: 5.00 g

QC Batch: B9K0010  
Date Extracted: 04-Nov-2019 7:36

Lab Sample: B9K0010-BS1  
Date Analyzed: 06-Nov-19 15:59 Column: ZB-1

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PCB-1	1120	1000	112	60 - 135	IS 13C-PCB-1	52.6	15 - 145
PCB-3	1150	1000	115	60 - 135	IS 13C-PCB-3	51.2	15 - 145
PCB-4/10	2000	2000	100	60 - 135	IS 13C-PCB-4	51.1	15 - 145
PCB-15	1050	1000	105	60 - 135	IS 13C-PCB-9	51.8	15 - 145
PCB-19	1060	1000	106	60 - 135	IS 13C-PCB-11	62.1	15 - 145
PCB-37	1030	1000	103	60 - 135	IS 13C-PCB-19	60.6	15 - 145
PCB-54	1030	1000	103	60 - 135	IS 13C-PCB-28	63.8	15 - 145
PCB-77	1110	1000	111	60 - 135	IS 13C-PCB-32	60.2	15 - 145
PCB-81	1090	1000	109	60 - 135	IS 13C-PCB-37	74.1	15 - 145
PCB-104	1100	1000	110	60 - 135	IS 13C-PCB-47	68.0	15 - 145
PCB-105	1010	1000	101	60 - 135	IS 13C-PCB-52	67.2	15 - 145
PCB-106/118	2300	2000	115	60 - 135	IS 13C-PCB-54	58.8	15 - 145
PCB-114	1030	1000	103	60 - 135	IS 13C-PCB-70	62.6	15 - 145
PCB-123	1160	1000	116	60 - 135	IS 13C-PCB-77	69.8	40 - 145
PCB-126	1050	1000	105	60 - 135	IS 13C-PCB-80	62.5	40 - 145
PCB-155	1170	1000	117	60 - 135	IS 13C-PCB-81	70.3	40 - 145
PCB-156	1110	1000	111	60 - 135	IS 13C-PCB-95	58.0	40 - 145
PCB-157	1070	1000	107	60 - 135	IS 13C-PCB-97	64.3	40 - 145
PCB-167	1090	1000	109	60 - 135	IS 13C-PCB-101	63.7	40 - 145
PCB-169	1090	1000	109	60 - 135	IS 13C-PCB-104	69.3	40 - 145
PCB-188	1100	1000	110	60 - 135	IS 13C-PCB-105	61.2	40 - 145
PCB-189	1160	1000	116	60 - 135	IS 13C-PCB-114	62.7	40 - 145
PCB-202	1180	1000	118	60 - 135	IS 13C-PCB-118	64.4	40 - 145
PCB-205	1050	1000	105	60 - 135	IS 13C-PCB-123	66.0	40 - 145
PCB-206	1020	1000	102	60 - 135	IS 13C-PCB-126	67.2	40 - 145
PCB-208	1040	1000	104	60 - 135	IS 13C-PCB-127	61.1	40 - 145
PCB-209	1060	1000	106	60 - 135	IS 13C-PCB-138	63.5	40 - 145
					IS 13C-PCB-141	64.1	40 - 145
					IS 13C-PCB-153	60.9	40 - 145
					IS 13C-PCB-155	45.9	40 - 145
					IS 13C-PCB-156	65.6	40 - 145
					IS 13C-PCB-157	67.0	40 - 145
					IS 13C-PCB-159	66.3	40 - 145
					IS 13C-PCB-167	65.6	40 - 145
					IS 13C-PCB-169	61.8	40 - 145
					IS 13C-PCB-170	64.4	40 - 145
					IS 13C-PCB-180	68.3	40 - 145
					IS 13C-PCB-188	65.1	40 - 145
					IS 13C-PCB-189	66.7	40 - 145
					IS 13C-PCB-194	68.2	40 - 145

**Sample ID: OPR**

**EPA Method 1668C**

Matrix: Solid  
Sample Size: 5.00 g

QC Batch: B9K0010  
Date Extracted: 04-Nov-2019 7:36

Lab Sample: B9K0010-BS1  
Date Analyzed: 06-Nov-19 15:59 Column: ZB-1

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
					IS 13C-PCB-202	51.7	40 - 145
					IS 13C-PCB-206	70.6	40 - 145
					IS 13C-PCB-208	67.8	40 - 145
					IS 13C-PCB-209	64.0	40 - 145
					CRS 13C-PCB-79	76.7	40 - 145
					CRS 13C-PCB-178	63.3	40 - 145

LCL-UCL - Lower control limit - upper control limit

**Sample ID: Method Blank**

**EPA Method 1668C**

Matrix: Solid	QC Batch: B9K0090	Lab Sample: B9K0090-BLK1
Sample Size: 1.00 g	Date Extracted: 11-Nov-2019 9:12	Date Analyzed: 14-Nov-19 22:15 Column: ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-1	ND		4.98		PCB-44	ND	2.88		
PCB-2	ND	1.61			PCB-45	ND	2.92		
PCB-3	ND		7.15		PCB-46	ND	3.13		
PCB-4/10	ND	5.43			PCB-47	ND	2.52		
PCB-5/8	ND	4.42			PCB-48/75	4.77			J
PCB-6	ND	4.39			PCB-50	1.97			J
PCB-7/9	ND	4.58			PCB-51	ND	2.31		
PCB-11	ND	4.42			PCB-52/69	ND		7.01	
PCB-12/13	ND	4.67			PCB-53	ND	2.47		
PCB-14	ND	4.69			PCB-54	ND	1.65		
PCB-15	ND	4.71			PCB-55	ND	1.73		
PCB-16/32	12.4			J	PCB-56/60	ND	1.97		
PCB-17	ND	3.23			PCB-57	ND	1.77		
PCB-18	ND	3.11			PCB-58	ND	1.67		
PCB-19	ND	3.49			PCB-61/70	ND	1.89		
PCB-20/21/33	ND		10.6		PCB-62	ND	2.06		
PCB-22	ND	2.09			PCB-63	ND	1.93		
PCB-23	ND	2.22			PCB-65	ND	1.98		
PCB-24/27	ND	2.36			PCB-66/76	ND	1.74		
PCB-25	ND	2.21			PCB-67	ND	1.87		
PCB-26	ND	2.16			PCB-68	ND	1.98		
PCB-28	ND	1.96			PCB-73	ND	1.83		
PCB-29	ND	2.27			PCB-74	ND	1.74		
PCB-30	ND	2.20			PCB-77	ND	2.01		
PCB-31	ND	1.93			PCB-78	ND	1.96		
PCB-34	ND	2.19			PCB-79	ND	1.76		
PCB-35	ND	2.22			PCB-80	ND	1.70		
PCB-36	ND	2.14			PCB-81	ND	2.17		
PCB-37	ND	2.28			PCB-82	ND	5.58		
PCB-38	ND	2.23			PCB-83	ND	3.33		
PCB-39	ND	2.32			PCB-84/92	ND	5.34		
PCB-40	ND	3.80			PCB-85/116	ND	4.23		
PCB-41/64/71/72	ND		6.18		PCB-86	ND	5.17		
PCB-42/59	ND	2.28			PCB-87/117/125	ND	3.86		
PCB-43/49	ND	2.51			PCB-88/91	ND	4.72		

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
individual congeners for qualifiers.

See

**Sample ID: Method Blank**

**EPA Method 1668C**

Matrix: Solid	QC Batch: B9K0090	Lab Sample: B9K0090-BLK1
Sample Size: 1.00 g	Date Extracted: 11-Nov-2019 9:12	Date Analyzed: 14-Nov-19 22:15 Column: ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-89	ND	4.89			PCB-137	ND	1.70		
PCB-90/101	ND	4.97			PCB-138/163/164	ND	1.29		
PCB-93	ND	4.99			PCB-139/149	ND	2.26		
PCB-94	ND	5.43			PCB-140	ND	2.66		
PCB-95/98/102	ND	4.14			PCB-141	ND	1.74		
PCB-96	ND	3.08			PCB-142	ND	1.91		
PCB-97	ND	4.79			PCB-144	ND	2.50		
PCB-99	ND	4.19			PCB-145	ND	1.67		
PCB-100	ND	3.94			PCB-146/165	ND	1.41		
PCB-103	ND	3.96			PCB-147	ND	2.52		
PCB-104	ND	3.08			PCB-148	ND	2.40		
PCB-105	ND	3.06			PCB-150	ND	1.89		
PCB-106/118	ND	3.49			PCB-151	ND	2.64		
PCB-107/109	ND	3.23			PCB-152	ND	1.66		
PCB-108/112	ND	4.12			PCB-153	ND	1.34		
PCB-110	ND	3.46			PCB-154	ND	2.30		
PCB-111/115	ND	3.21			PCB-155	ND	1.91		
PCB-113	ND	3.81			PCB-156	ND	1.32		
PCB-114	ND	2.93			PCB-157	ND	1.51		
PCB-119	ND	3.50			PCB-158/160	ND	1.34		
PCB-120	ND	3.06			PCB-159	ND	1.21		
PCB-121	ND	3.03			PCB-166	ND	1.27		
PCB-122	ND	3.50			PCB-167	ND	1.28		
PCB-123	ND	3.61			PCB-168	ND	1.33		
PCB-124	ND	3.24			PCB-169	ND	1.58		
PCB-126	ND	3.16			PCB-170	ND	2.00		
PCB-127	ND	2.89			PCB-171	ND	1.90		
PCB-128/162	ND	1.59			PCB-172	ND	1.81		
PCB-129	ND	1.93			PCB-173	ND	2.07		
PCB-130	ND	2.00			PCB-174	ND	1.94		
PCB-131/133	ND	1.71			PCB-175	ND	1.64		
PCB-132/161	ND	1.39			PCB-176	ND	1.20		
PCB-134/143	ND	1.84			PCB-177	ND	1.90		
PCB-135	ND	2.33			PCB-178	ND	1.68		
PCB-136	ND	1.98			PCB-179	ND	1.19		

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
individual congeners for qualifiers.

See

**Sample ID: Method Blank**

**EPA Method 1668C**

Matrix: Solid	QC Batch: B9K0090	Lab Sample: B9K0090-BLK1
Sample Size: 1.00 g	Date Extracted: 11-Nov-2019 9:12	Date Analyzed: 14-Nov-19 22:15 Column: ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-180	ND	1.79			Total octaCB	ND		3.07	
PCB-181	ND	1.67			Total nonaCB	ND		1.51	
PCB-182/187	ND	1.45			DecaCB	ND		1.70	
PCB-183	ND	1.46			Total PCB	19.1			
PCB-184	ND	1.19							
PCB-185	ND	1.79							
PCB-186	ND	1.14							
PCB-188	ND	1.17							
PCB-189	ND	1.29							
PCB-190	ND	1.48							
PCB-191	ND	1.50							
PCB-192	ND	1.39							
PCB-193	ND	1.53							
PCB-194	ND		3.07						
PCB-195	ND	1.60							
PCB-196/203	ND	2.34							
PCB-197	ND	1.88							
PCB-198	ND	2.46							
PCB-199	ND	2.60							
PCB-200	ND	1.93							
PCB-201	ND	2.01							
PCB-202	ND	1.79							
PCB-204	ND	1.88							
PCB-205	ND	1.18							
PCB-206	ND	1.13							
PCB-207	ND	0.873							
PCB-208	ND		1.51						
PCB-209	ND		1.70						
Total monoCB	ND		12.1						
Total diCB	ND	5.43							
Total triCB	12.4		22.9						
Total tetraCB	6.75		19.9						
Total pentaCB	ND	5.17							
Total hexaCB	ND	2.66							
Total heptaCB	ND	2.07							

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
individual congeners for qualifiers.

See

**Sample ID: Method Blank**

**EPA Method 1668C**

Matrix: Solid	QC Batch: B9K0090	Lab Sample: B9K0090-BLK1
Sample Size: 1.00 g	Date Extracted: 11-Nov-2019 9:12	Date Analyzed: 14-Nov-19 22:15 Column: ZB-1

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	63.3	5-145		13C-PCB-157	78.0	10-145	
13C-PCB-3	60.5	5-145		13C-PCB-159	80.7	10-145	
13C-PCB-4	78.3	5-145		13C-PCB-167	79.4	10-145	
13C-PCB-11	78.2	5-145		13C-PCB-169	68.3	10-145	
13C-PCB-9	82.1	5-145		13C-PCB-170	74.5	10-145	
13C-PCB-19	58.3	5-145		13C-PCB-180	73.6	10-145	
13C-PCB-28	71.1	5-145		13C-PCB-188	78.9	10-145	
13C-PCB-32	64.4	5-145		13C-PCB-189	77.4	10-145	
13C-PCB-37	76.0	5-145		13C-PCB-194	79.9	10-145	
13C-PCB-47	86.0	5-145		13C-PCB-202	67.3	10-145	
13C-PCB-52	83.0	5-145		13C-PCB-206	76.7	10-145	
13C-PCB-54	89.3	5-145		13C-PCB-208	80.4	10-145	
13C-PCB-70	87.9	5-145		13C-PCB-209	71.1	10-145	
13C-PCB-77	84.7	10-145		CRS 13C-PCB-79	85.3	10-145	
13C-PCB-80	86.7	10-145		13C-PCB-178	75.5	10-145	
13C-PCB-81	83.8	10-145					
13C-PCB-95	81.0	10-145					
13C-PCB-97	80.2	10-145					
13C-PCB-101	75.5	10-145					
13C-PCB-104	86.6	10-145					
13C-PCB-105	80.1	10-145					
13C-PCB-114	83.1	10-145					
13C-PCB-118	81.6	10-145					
13C-PCB-123	83.6	10-145					
13C-PCB-126	82.8	10-145					
13C-PCB-127	82.3	10-145					
13C-PCB-138	79.1	10-145					
13C-PCB-141	79.9	10-145					
13C-PCB-153	76.5	10-145					
13C-PCB-155	57.6	10-145					
13C-PCB-156	76.3	10-145					

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
individual congeners for qualifiers.

See



**Sample ID: OPR**

**EPA Method 1668C**

Matrix: Solid  
Sample Size: 1.00 g

QC Batch: B9K0090  
Date Extracted: 11-Nov-2019 9:12

Lab Sample: B9K0090-BS1  
Date Analyzed: 14-Nov-19 18:08 Column: ZB-1

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PCB-1	12100	10000	121	60 - 135	IS 13C-PCB-1	61.5	15 - 145
PCB-3	12800	10000	128	60 - 135	IS 13C-PCB-3	64.9	15 - 145
PCB-4/10	22700	20000	113	60 - 135	IS 13C-PCB-4	71.7	15 - 145
PCB-15	11300	10000	113	60 - 135	IS 13C-PCB-9	72.5	15 - 145
PCB-19	11900	10000	119	60 - 135	IS 13C-PCB-11	82.7	15 - 145
PCB-37	11300	10000	113	60 - 135	IS 13C-PCB-19	62.9	15 - 145
PCB-54	11600	10000	116	60 - 135	IS 13C-PCB-28	73.2	15 - 145
PCB-77	11500	10000	115	60 - 135	IS 13C-PCB-32	62.2	15 - 145
PCB-81	11800	10000	118	60 - 135	IS 13C-PCB-37	80.1	15 - 145
PCB-104	11600	10000	116	60 - 135	IS 13C-PCB-47	79.8	15 - 145
PCB-105	11500	10000	115	60 - 135	IS 13C-PCB-52	80.6	15 - 145
PCB-106/118	23100	20000	115	60 - 135	IS 13C-PCB-54	74.3	15 - 145
PCB-114	11100	10000	111	60 - 135	IS 13C-PCB-70	79.7	15 - 145
PCB-123	11700	10000	117	60 - 135	IS 13C-PCB-77	79.5	40 - 145
PCB-126	11600	10000	116	60 - 135	IS 13C-PCB-80	81.8	40 - 145
PCB-155	11700	10000	117	60 - 135	IS 13C-PCB-81	81.3	40 - 145
PCB-156	11600	10000	116	60 - 135	IS 13C-PCB-95	81.5	40 - 145
PCB-157	11300	10000	113	60 - 135	IS 13C-PCB-97	83.0	40 - 145
PCB-167	11100	10000	111	60 - 135	IS 13C-PCB-101	84.8	40 - 145
PCB-169	10800	10000	108	60 - 135	IS 13C-PCB-104	79.3	40 - 145
PCB-188	11500	10000	115	60 - 135	IS 13C-PCB-105	99.5	40 - 145
PCB-189	11700	10000	117	60 - 135	IS 13C-PCB-114	100	40 - 145
PCB-202	11900	10000	119	60 - 135	IS 13C-PCB-118	79.4	40 - 145
PCB-205	12200	10000	122	60 - 135	IS 13C-PCB-123	78.1	40 - 145
PCB-206	10900	10000	109	60 - 135	IS 13C-PCB-126	97.5	40 - 145
PCB-208	10700	10000	107	60 - 135	IS 13C-PCB-127	103	40 - 145
PCB-209	11500	10000	115	60 - 135	IS 13C-PCB-138	93.9	40 - 145
					IS 13C-PCB-141	96.3	40 - 145
					IS 13C-PCB-153	92.6	40 - 145
					IS 13C-PCB-155	62.9	40 - 145
					IS 13C-PCB-156	88.7	40 - 145
					IS 13C-PCB-157	91.9	40 - 145
					IS 13C-PCB-159	85.4	40 - 145
					IS 13C-PCB-167	85.0	40 - 145
					IS 13C-PCB-169	93.4	40 - 145
					IS 13C-PCB-170	93.0	40 - 145
					IS 13C-PCB-180	91.4	40 - 145
					IS 13C-PCB-188	91.5	40 - 145
					IS 13C-PCB-189	87.6	40 - 145
					IS 13C-PCB-194	80.2	40 - 145

**Sample ID: OPR**

**EPA Method 1668C**

Matrix: Solid  
Sample Size: 1.00 g

QC Batch: B9K0090  
Date Extracted: 11-Nov-2019 9:12

Lab Sample: B9K0090-BS1  
Date Analyzed: 14-Nov-19 18:08 Column: ZB-1

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
					IS 13C-PCB-202	73.8	40 - 145
					IS 13C-PCB-206	87.1	40 - 145
					IS 13C-PCB-208	74.6	40 - 145
					IS 13C-PCB-209	80.4	40 - 145
					CRS 13C-PCB-79	90.5	40 - 145
					CRS 13C-PCB-178	83.2	40 - 145

LCL-UCL - Lower control limit - upper control limit

**Sample ID: PDI-032SC-A-00-01-191010**

**EPA Method 1668C**

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	1903655-01	Date Received:	15-Oct-2019 8:51
Project:	Gasco PDI	Sample Size:	6.12 g	QC Batch:	B9K0010	Date Extracted:	04-Nov-2019 7:36
Date Collected:	10-Oct-2019 8:17	% Solids:	81.9	Date Analyzed :	08-Nov-19 05:19	Column:	ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-1	1.94			J	PCB-44	270			
PCB-2	ND		0.883		PCB-45	33.0			
PCB-3	2.60			J	PCB-46	15.8			
PCB-4/10	ND	2.20			PCB-47	104			
PCB-5/8	12.0				PCB-48/75	62.3			
PCB-6	ND	1.66			PCB-50	ND		0.638	
PCB-7/9	ND	1.73			PCB-51	12.9			
PCB-11	ND	1.41			PCB-52/69	334			
PCB-12/13	ND	1.49			PCB-53	34.3			
PCB-14	ND	1.50			PCB-54	ND		0.558	
PCB-15	27.2				PCB-55	3.27			J
PCB-16/32	42.1				PCB-56/60	216			
PCB-17	32.9				PCB-57	ND		2.14	
PCB-18	58.8				PCB-58	3.50			J
PCB-19	3.19			J	PCB-61/70	506			
PCB-20/21/33	75.0				PCB-62	ND	0.386		
PCB-22	46.7				PCB-63	20.2			
PCB-23	ND	0.635			PCB-65	ND	0.371		
PCB-24/27	4.87			J	PCB-66/76	382			
PCB-25	23.8				PCB-67	13.9			
PCB-26	30.2				PCB-68	5.92			
PCB-28	206				PCB-73	ND	0.332		
PCB-29	ND	0.648			PCB-74	192			
PCB-30	ND	0.333			PCB-77	39.9			
PCB-31	155				PCB-78	ND		1.62	
PCB-34	3.53			J	PCB-79	6.55			
PCB-35	4.31			J	PCB-80	ND	0.299		
PCB-36	ND	0.514			PCB-81	2.47			J
PCB-37	74.9				PCB-82	75.8			
PCB-38	2.45			J	PCB-83	ND	0.247		
PCB-39	1.75			J	PCB-84/92	293			
PCB-40	56.4				PCB-85/116	97.3			
PCB-41/64/71/72	276				PCB-86	ND		2.17	
PCB-42/59	99.9				PCB-87/117/125	195			
PCB-43/49	284				PCB-88/91	90.1			

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
See individual congeners for qualifiers.

**Sample ID: PDI-032SC-A-00-01-191010**

**EPA Method 1668C**

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	1903655-01	Date Received:	15-Oct-2019 8:51
Project:	Gasco PDI	Sample Size:	6.12 g	QC Batch:	B9K0010	Date Extracted:	04-Nov-2019 7:36
Date Collected:	10-Oct-2019 8:17	% Solids:	81.9	Date Analyzed :	08-Nov-19 05:19	Column:	ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-89	ND		7.90		PCB-137	27.8			
PCB-90/101	752				PCB-138/163/164	772			
PCB-93	ND	0.392			PCB-139/149	695			
PCB-94	ND		3.08		PCB-140	8.24			
PCB-95/98/102	431				PCB-141	156			
PCB-96	4.80			J	PCB-142	1.51			J
PCB-97	186				PCB-144	41.3			
PCB-99	279				PCB-145	ND	0.135		
PCB-100	3.21			J	PCB-146/165	156			
PCB-103	12.6				PCB-147	16.3			
PCB-104	ND	0.255			PCB-148	ND		2.16	
PCB-105	144				PCB-150	1.26			J
PCB-106/118	471				PCB-151	233			
PCB-107/109	46.4				PCB-152	ND		0.656	
PCB-108/112	27.3				PCB-153	812			
PCB-110	627				PCB-154	17.6			
PCB-111/115	ND		4.93		PCB-155	ND	0.154		
PCB-113	ND		1.64		PCB-156	67.4			
PCB-114	11.7				PCB-157	11.8			
PCB-119	22.6				PCB-158/160	60.8			
PCB-120	ND		4.68		PCB-159	11.0			
PCB-121	ND	0.238			PCB-166	2.75			J
PCB-122	7.13				PCB-167	25.2			
PCB-123	ND		6.81		PCB-168	ND		1.34	
PCB-124	17.2				PCB-169	ND	0.609		
PCB-126	ND		3.10		PCB-170	252			
PCB-127	ND	0.518			PCB-171	79.5			
PCB-128/162	97.6				PCB-172	46.0			
PCB-129	27.1				PCB-173	7.15			
PCB-130	64.3				PCB-174	321			
PCB-131/133	25.2				PCB-175	13.6			
PCB-132/161	213				PCB-176	42.3			
PCB-134/143	41.6				PCB-177	165			
PCB-135	109				PCB-178	64.1			
PCB-136	123				PCB-179	132			

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
See individual congeners for qualifiers.

**Sample ID: PDI-032SC-A-00-01-191010**

**EPA Method 1668C**

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	1903655-01	Date Received:	15-Oct-2019 8:51
Project:	Gasco PDI	Sample Size:	6.12 g	QC Batch:	B9K0010	Date Extracted:	04-Nov-2019 7:36
Date Collected:	10-Oct-2019 8:17	% Solids:	81.9	Date Analyzed :	08-Nov-19 05:19	Column:	ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-180	672				Total octaCB	691		699	
PCB-181	15.8				Total nonaCB	110			
PCB-182/187	391				DecaCB	72.1			
PCB-183	168				Total PCB	14800			
PCB-184	0.700			J					
PCB-185	36.1								
PCB-186	ND	0.433							
PCB-188	0.562			J					
PCB-189	9.45								
PCB-190	54.2								
PCB-191	ND		9.18						
PCB-192	ND	0.437							
PCB-193	32.6								
PCB-194	140								
PCB-195	64.5								
PCB-196/203	204								
PCB-197	ND		7.08						
PCB-198	8.93								
PCB-199	182								
PCB-200	25.0								
PCB-201	25.0								
PCB-202	33.8								
PCB-204	ND		0.809						
PCB-205	7.63								
PCB-206	68.2			B					
PCB-207	18.1								
PCB-208	23.7								
PCB-209	72.1								
Total monoCB	4.54		5.42						
Total diCB	39.2								
Total triCB	766								
Total tetraCB	2970		2980						
Total pentaCB	3790		3830						
Total hexaCB	3820								
Total heptaCB	2500		2510						

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
See individual congeners for qualifiers.

**Sample ID: PDI-032SC-A-00-01-191010**

**EPA Method 1668C**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	1903655-01
Project:	Gasco PDI	Sample Size:	6.12 g	Date Received:	15-Oct-2019 8:51
Date Collected:	10-Oct-2019 8:17	% Solids:	81.9	QC Batch:	B9K0010
				Date Analyzed :	08-Nov-19 05:19 Column: ZB-1
Date Collected:	10-Oct-2019 8:17				

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	47.0	5 -145		13C-PCB-170	69.5	10 -145	
13C-PCB-3	51.7	5 -145		13C-PCB-180	67.2	10 -145	
13C-PCB-4	51.0	5 -145		13C-PCB-188	59.6	10 -145	
13C-PCB-11	63.1	5 -145		13C-PCB-189	69.2	10 -145	
13C-PCB-9	54.9	5 -145		13C-PCB-194	65.4	10 -145	
13C-PCB-19	62.7	5 -145		13C-PCB-202	65.2	10 -145	
13C-PCB-28	57.6	5 -145		13C-PCB-206	69.1	10 -145	
13C-PCB-32	70.0	5 -145		13C-PCB-208	71.1	10 -145	
13C-PCB-37	67.8	5 -145		13C-PCB-209	71.4	10 -145	
13C-PCB-47	61.3	5 -145		CRS 13C-PCB-79	67.1	10 -145	
13C-PCB-52	58.9	5 -145		13C-PCB-178	69.1	10 -145	
13C-PCB-54	53.0	5 -145					
13C-PCB-70	62.8	5 -145					
13C-PCB-77	62.3	10 -145					
13C-PCB-80	63.5	10 -145					
13C-PCB-81	62.6	10 -145					
13C-PCB-95	62.4	10 -145					
13C-PCB-97	63.9	10 -145					
13C-PCB-101	63.9	10 -145					
13C-PCB-104	60.3	10 -145					
13C-PCB-105	52.8	10 -145					
13C-PCB-114	55.1	10 -145					
13C-PCB-118	65.7	10 -145					
13C-PCB-123	65.3	10 -145					
13C-PCB-126	55.9	10 -145					
13C-PCB-127	54.8	10 -145					
13C-PCB-138	62.4	10 -145					
13C-PCB-141	61.2	10 -145					
13C-PCB-153	59.0	10 -145					
13C-PCB-155	66.1	10 -145					
13C-PCB-156	62.6	10 -145					
13C-PCB-157	64.1	10 -145					
13C-PCB-159	62.9	10 -145					
13C-PCB-167	60.6	10 -145					
13C-PCB-169	62.7	10 -145					

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
See individual congeners for qualifiers.

**Sample ID: PDI-035SC-A-00-01-191010**

**EPA Method 1668C**

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	1903655-06	Date Received:	15-Oct-2019 8:51
Project:	Gasco PDI	Sample Size:	1.61 g	QC Batch:	B9K0090	Date Extracted:	11-Nov-2019 9:12
Date Collected:	10-Oct-2019 14:18	% Solids:	62.9	Date Analyzed :	15-Nov-19 02:20	Column:	ZB-1
					17-Nov-19 14:14	Column:	ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-1	197			D, J	PCB-44	2340			
PCB-2	311			D, J	PCB-45	366			
PCB-3	420			D, J	PCB-46	ND		140	
PCB-4/10	ND	58.8		D	PCB-47	811			
PCB-5/8	380			D, J	PCB-48/75	539			B
PCB-6	ND	46.5		D	PCB-50	ND	4.77		
PCB-7/9	ND	48.4		D	PCB-51	84.2			
PCB-11	ND	51.6		D	PCB-52/69	2950			
PCB-12/13	ND	54.5		D	PCB-53	309			
PCB-14	ND	54.8		D	PCB-54	ND	3.74		
PCB-15	ND		348	D	PCB-55	41.5			
PCB-16/32	703			D, J, B	PCB-56/60	2120			
PCB-17	597			D	PCB-57	17.1			J
PCB-18	520			D	PCB-58	ND		9.83	
PCB-19	117			D, J	PCB-61/70	4050			
PCB-20/21/33	797			D, J	PCB-62	ND	3.91		
PCB-22	482			D, J	PCB-63	161			
PCB-23	ND	24.1		D	PCB-65	ND	3.75		
PCB-24/27	101			D, J	PCB-66/76	3200			
PCB-25	131			D, J	PCB-67	103			
PCB-26	252			D, J	PCB-68	26.2			
PCB-28	1820			D	PCB-73	6.18			J
PCB-29	ND	24.6		D	PCB-74	1170			
PCB-30	ND	21.5		D	PCB-77	324			
PCB-31	1310			D	PCB-78	10.5			J
PCB-34	ND	23.8		D	PCB-79	52.6			
PCB-35	ND	24.5		D	PCB-80	ND	3.03		
PCB-36	ND	23.5		D	PCB-81	45.3			
PCB-37	641			D	PCB-82	589			
PCB-38	ND	24.5		D	PCB-83	ND	2.46		
PCB-39	ND	25.5		D	PCB-84/92	2170			
PCB-40	372				PCB-85/116	665			
PCB-41/64/71/72	2210				PCB-86	29.1			
PCB-42/59	700				PCB-87/117/125	1650			
PCB-43/49	2130				PCB-88/91	669			

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
See individual congeners for qualifiers.

**Sample ID: PDI-035SC-A-00-01-191010**

**EPA Method 1668C**

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	1903655-06	Date Received:	15-Oct-2019 8:51
Project:	Gasco PDI	Sample Size:	1.61 g	QC Batch:	B9K0090	Date Extracted:	11-Nov-2019 9:12
Date Collected:	10-Oct-2019 14:18	% Solids:	62.9	Date Analyzed :	15-Nov-19 02:20	Column:	ZB-1
					17-Nov-19 14:14	Column:	ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-89	68.2				PCB-137	187			
PCB-90/101	6360				PCB-138/163/164	6830			
PCB-93	ND	4.25			PCB-139/149	7080			
PCB-94	16.8			J	PCB-140	ND		34.1	
PCB-95/98/102	3800				PCB-141	1790			
PCB-96	30.8				PCB-142	ND		8.55	
PCB-97	1290				PCB-144	530			
PCB-99	1990				PCB-145	ND	2.53		
PCB-100	ND		19.3		PCB-146/165	1040			
PCB-103	ND		59.2		PCB-147	77.3			
PCB-104	ND	2.91			PCB-148	ND		5.23	
PCB-105	1450				PCB-150	ND		11.0	
PCB-106/118	3750				PCB-151	2770			
PCB-107/109	297				PCB-152	ND	2.51		
PCB-108/112	201				PCB-153	7680			
PCB-110	4720				PCB-154	92.6			
PCB-111/115	80.0				PCB-155	ND	2.89		
PCB-113	ND		5.61		PCB-156	571			
PCB-114	98.9				PCB-157	101			
PCB-119	112				PCB-158/160	748			
PCB-120	20.1			J	PCB-159	126			
PCB-121	ND	2.58			PCB-166	ND		15.7	
PCB-122	51.4				PCB-167	211			
PCB-123	56.4				PCB-168	ND	4.69		
PCB-124	180				PCB-169	ND	4.64		
PCB-126	27.6				PCB-170	2490			
PCB-127	ND	3.73			PCB-171	742			
PCB-128/162	712				PCB-172	403			
PCB-129	227				PCB-173	65.5			
PCB-130	396				PCB-174	2600			
PCB-131/133	181				PCB-175	139			
PCB-132/161	1800				PCB-176	483			
PCB-134/143	348				PCB-177	1520			
PCB-135	1080				PCB-178	694			
PCB-136	1430				PCB-179	1680			

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
See individual congeners for qualifiers.



**Sample ID: PDI-035SC-A-00-01-191010**

**EPA Method 1668C**

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	1903655-06
Project:	Gasco PDI	Sample Size:	1.61 g	Date Received:	15-Oct-2019 8:51
Date Collected:	10-Oct-2019 14:18	% Solids:	62.9	QC Batch:	B9K0090
				Date Analyzed :	15-Nov-19 02:20 Column: ZB-1
					17-Nov-19 14:14 Column: ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-180	6680				Total octaCB	6130			
PCB-181	76.8				Total nonaCB	877			
PCB-182/187	4110				DecaCB	637			
PCB-183	1960				Total PCB	132000			
PCB-184	ND	2.95							
PCB-185	348								
PCB-186	4.41			J					
PCB-188	ND	2.88							
PCB-189	98.3								
PCB-190	522								
PCB-191	ND		96.1						
PCB-192	ND	2.73							
PCB-193	317								
PCB-194	1270								
PCB-195	677								
PCB-196/203	1710								
PCB-197	70.0								
PCB-198	91.5								
PCB-199	1440								
PCB-200	247								
PCB-201	258								
PCB-202	297								
PCB-204	ND		4.42						
PCB-205	68.6								
PCB-206	614								
PCB-207	101								
PCB-208	162								
PCB-209	637								
Total monoCB	927								
Total diCB	380		728						
Total triCB	7470								
Total tetraCB	24100		24300						
Total pentaCB	30400		30500						
Total hexaCB	36000		36100						
Total heptaCB	24900		25000						

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
See individual congeners for qualifiers.

**Sample ID: PDI-035SC-A-00-01-191010**

**EPA Method 1668C**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	1903655-06
Project:	Gasco PDI	Sample Size:	1.61 g	Date Received:	15-Oct-2019 8:51
Date Collected:	10-Oct-2019 14:18	% Solids:	62.9	QC Batch:	B9K0090
				Date Analyzed :	15-Nov-19 02:20 Column: ZB-1
					17-Nov-19 14:14 Column: ZB-1

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	65.9	5 -145	D	13C-PCB-170	87.6	10 -145	
13C-PCB-3	68.4	5 -145	D	13C-PCB-180	84.2	10 -145	
13C-PCB-4	72.9	5 -145	D	13C-PCB-188	72.0	10 -145	
13C-PCB-11	80.8	5 -145	D	13C-PCB-189	80.5	10 -145	
13C-PCB-9	76.7	5 -145	D	13C-PCB-194	84.8	10 -145	
13C-PCB-19	58.9	5 -145	D	13C-PCB-202	62.3	10 -145	
13C-PCB-28	91.9	5 -145	D	13C-PCB-206	79.6	10 -145	
13C-PCB-32	60.3	5 -145	D	13C-PCB-208	87.6	10 -145	
13C-PCB-37	90.6	5 -145	D	13C-PCB-209	66.9	10 -145	
13C-PCB-47	73.6	5 -145		CRS 13C-PCB-79	87.8	10 -145	
13C-PCB-52	71.1	5 -145		13C-PCB-178	72.0	10 -145	
13C-PCB-54	60.1	5 -145					
13C-PCB-70	66.9	5 -145					
13C-PCB-77	84.0	10 -145					
13C-PCB-80	74.7	10 -145					
13C-PCB-81	83.9	10 -145					
13C-PCB-95	73.5	10 -145					
13C-PCB-97	84.6	10 -145					
13C-PCB-101	79.5	10 -145					
13C-PCB-104	71.5	10 -145					
13C-PCB-105	79.6	10 -145					
13C-PCB-114	80.8	10 -145					
13C-PCB-118	76.8	10 -145					
13C-PCB-123	82.8	10 -145					
13C-PCB-126	88.6	10 -145					
13C-PCB-127	83.1	10 -145					
13C-PCB-138	75.4	10 -145					
13C-PCB-141	80.2	10 -145					
13C-PCB-153	77.0	10 -145					
13C-PCB-155	57.0	10 -145					
13C-PCB-156	78.6	10 -145					
13C-PCB-157	77.9	10 -145					
13C-PCB-159	82.5	10 -145					
13C-PCB-167	79.0	10 -145					
13C-PCB-169	80.7	10 -145					

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
See individual congeners for qualifiers.

**Sample ID: Method Blank**

**EPA Method 1668C**

Matrix: Aqueous	QC Batch: B9J0309	Lab Sample: B9J0309-BLK1
Sample Size: 1.00 L	Date Extracted: 29-Oct-2019 5:50	Date Analyzed: 06-Nov-19 18:01 Column: ZB-1

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers
PCB-1	ND	0.309			PCB-44	ND	0.723		
PCB-2	ND	0.315			PCB-45	ND	0.686		
PCB-3	ND	0.316			PCB-46	ND	0.736		
PCB-4/10	ND	2.76			PCB-47	ND		1.69	
PCB-5/8	ND	2.29			PCB-48/75	ND	0.537		
PCB-6	ND	2.27			PCB-50	ND	0.577		
PCB-7/9	ND	2.37			PCB-51	ND	0.542		
PCB-11	ND	2.24			PCB-52/69	ND	0.508		
PCB-12/13	ND	2.37			PCB-53	ND	0.581		
PCB-14	ND	2.38			PCB-54	ND	0.453		
PCB-15	ND	2.39			PCB-55	ND	0.433		
PCB-16/32	ND	0.566			PCB-56/60	ND	0.495		
PCB-17	ND	0.673			PCB-57	ND	0.429		
PCB-18	ND	0.647			PCB-58	ND	0.404		
PCB-19	ND	0.687			PCB-61/70	ND	0.456		
PCB-20/21/33	ND	0.601			PCB-62	ND	0.516		
PCB-22	ND	0.584			PCB-63	ND	0.467		
PCB-23	ND	0.619			PCB-65	ND	0.496		
PCB-24/27	ND	0.490			PCB-66/76	ND	0.421		
PCB-25	ND	0.617			PCB-67	ND	0.452		
PCB-26	ND	0.603			PCB-68	ND	0.496		
PCB-28	ND	0.546			PCB-73	ND	0.430		
PCB-29	ND	0.633			PCB-74	ND	0.421		
PCB-30	ND	0.433			PCB-77	ND	0.461		
PCB-31	ND	0.537			PCB-78	ND	0.452		
PCB-34	ND	0.611			PCB-79	ND	0.442		
PCB-35	ND	0.591			PCB-80	ND	0.426		
PCB-36	ND	0.569			PCB-81	ND	0.500		
PCB-37	ND	0.605			PCB-82	ND	1.10		
PCB-38	ND	0.593			PCB-83	ND	0.622		
PCB-39	ND	0.617			PCB-84/92	ND	0.937		
PCB-40	ND	0.954			PCB-85/116	ND	0.792		
PCB-41/64/71/72	ND	0.508			PCB-86	ND	0.967		
PCB-42/59	ND	0.573			PCB-87/117/125	ND	0.722		
PCB-43/49	ND	0.590			PCB-88/91	ND	0.823		

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

**Sample ID: Method Blank**

**EPA Method 1668C**

Matrix: Aqueous	QC Batch: B9J0309	Lab Sample: B9J0309-BLK1
Sample Size: 1.00 L	Date Extracted: 29-Oct-2019 5:50	Date Analyzed: 06-Nov-19 18:01 Column: ZB-1

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers
PCB-89	ND	0.858			PCB-137	ND	0.529		
PCB-90/101	ND	0.872			PCB-138/163/164	ND	0.427		
PCB-93	ND	0.871			PCB-139/149	ND	0.509		
PCB-94	ND	0.947			PCB-140	ND	0.599		
PCB-95/98/102	ND	0.722			PCB-141	ND	0.540		
PCB-96	ND	0.631			PCB-142	ND	0.622		
PCB-97	ND	0.895			PCB-144	ND	0.564		
PCB-99	ND	0.736			PCB-145	ND	0.376		
PCB-100	ND	0.809			PCB-146/165	ND	0.459		
PCB-103	ND	0.812			PCB-147	ND	0.569		
PCB-104	ND	0.632			PCB-148	ND	0.542		
PCB-105	ND	0.525			PCB-150	ND	0.427		
PCB-106/118	ND	0.680			PCB-151	ND	0.595		
PCB-107/109	ND	0.638			PCB-152	ND	0.374		
PCB-108/112	ND	0.770			PCB-153	ND	0.435		
PCB-110	ND	0.648			PCB-154	ND	0.519		
PCB-111/115	ND	0.601			PCB-155	ND	0.430		
PCB-113	ND	0.669			PCB-156	ND	0.503		
PCB-114	ND	0.512			PCB-157	ND	0.542		
PCB-119	ND	0.654			PCB-158/160	ND	0.445		
PCB-120	ND	0.573			PCB-159	ND	0.414		
PCB-121	ND	0.528			PCB-166	ND	0.434		
PCB-122	ND	0.612			PCB-167	ND	0.470		
PCB-123	ND	0.714			PCB-168	ND	0.432		
PCB-124	ND	0.639			PCB-169	ND	0.494		
PCB-126	ND	0.522			PCB-170	ND	0.628		
PCB-127	ND	0.479			PCB-171	ND	0.627		
PCB-128/162	ND	0.545			PCB-172	ND	0.596		
PCB-129	ND	0.640			PCB-173	ND	0.683		
PCB-130	ND	0.622			PCB-174	ND	0.639		
PCB-131/133	ND	0.557			PCB-175	ND	0.493		
PCB-132/161	ND	0.452			PCB-176	ND	0.361		
PCB-134/143	ND	0.600			PCB-177	ND	0.628		
PCB-135	ND	0.525			PCB-178	ND	0.504		
PCB-136	ND	0.446			PCB-179	ND	0.356		

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

**Sample ID: Method Blank**

**EPA Method 1668C**

Matrix: Aqueous	QC Batch: B9J0309	Lab Sample: B9J0309-BLK1
Sample Size: 1.00 L	Date Extracted: 29-Oct-2019 5:50	Date Analyzed: 06-Nov-19 18:01 Column: ZB-1

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers
PCB-180	ND	0.590			Total octaCB	ND	0.483	0.518	
PCB-181	ND	0.551			Total nonaCB	ND	0.199	0.276	
PCB-182/187	ND	0.436			DecaCB	ND	0.668	0.234	
PCB-183	ND	0.437			Total PCB	ND			
PCB-184	ND	0.359							
PCB-185	ND	0.591							
PCB-186	ND	0.343							
PCB-188	ND	0.351							
PCB-189	ND	0.435							
PCB-190	ND	0.464							
PCB-191	ND	0.495							
PCB-192	ND	0.458							
PCB-193	ND	0.506							
PCB-194	ND		0.518						
PCB-195	ND	0.360							
PCB-196/203	ND	0.434							
PCB-197	ND	0.348							
PCB-198	ND	0.455							
PCB-199	ND	0.483							
PCB-200	ND	0.357							
PCB-201	ND	0.372							
PCB-202	ND	0.333							
PCB-204	ND	0.348							
PCB-205	ND	0.266							
PCB-206	ND	0.199							
PCB-207	ND	0.151							
PCB-208	ND		0.276						
PCB-209	ND		0.234						
Total monoCB	ND	0.316							
Total diCB	ND	2.76							
Total triCB	ND	0.687							
Total tetraCB	ND	0.954	1.69						
Total pentaCB	ND	1.10							
Total hexaCB	ND	0.622							
Total heptaCB	ND	0.683							

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

**Sample ID: Method Blank**

**EPA Method 1668C**

Matrix: Aqueous	QC Batch: B9J0309	Lab Sample: B9J0309-BLK1
Sample Size: 1.00 L	Date Extracted: 29-Oct-2019 5:50	Date Analyzed: 06-Nov-19 18:01 Column: ZB-1

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	58.7	5 - 145		13C-PCB-157	64.0	10 - 145	
13C-PCB-3	61.6	5 - 145		13C-PCB-159	72.7	10 - 145	
13C-PCB-4	66.2	5 - 145		13C-PCB-167	69.7	10 - 145	
13C-PCB-11	64.6	5 - 145		13C-PCB-169	68.1	10 - 145	
13C-PCB-9	66.8	5 - 145		13C-PCB-170	70.0	10 - 145	
13C-PCB-19	66.9	5 - 145		13C-PCB-180	65.0	10 - 145	
13C-PCB-28	73.1	5 - 145		13C-PCB-188	76.5	10 - 145	
13C-PCB-32	70.6	5 - 145		13C-PCB-189	66.1	10 - 145	
13C-PCB-37	72.2	5 - 145		13C-PCB-194	74.8	10 - 145	
13C-PCB-47	66.4	5 - 145		13C-PCB-202	50.5	10 - 145	
13C-PCB-52	69.2	5 - 145		13C-PCB-206	68.7	10 - 145	
13C-PCB-54	65.8	5 - 145		13C-PCB-208	74.1	10 - 145	
13C-PCB-70	71.4	5 - 145		13C-PCB-209	63.6	10 - 145	
13C-PCB-77	73.5	10 - 145		CRS 13C-PCB-79	81.4	10 - 145	
13C-PCB-80	70.1	10 - 145		13C-PCB-178	71.6	10 - 145	
13C-PCB-81	74.3	10 - 145					
13C-PCB-95	79.0	10 - 145					
13C-PCB-97	75.8	10 - 145					
13C-PCB-101	74.3	10 - 145					
13C-PCB-104	72.0	10 - 145					
13C-PCB-105	72.0	10 - 145					
13C-PCB-114	72.2	10 - 145					
13C-PCB-118	70.8	10 - 145					
13C-PCB-123	71.6	10 - 145					
13C-PCB-126	73.8	10 - 145					
13C-PCB-127	74.8	10 - 145					
13C-PCB-138	75.9	10 - 145					
13C-PCB-141	78.8	10 - 145					
13C-PCB-153	73.3	10 - 145					
13C-PCB-155	54.0	10 - 145					
13C-PCB-156	65.0	10 - 145					

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

**Sample ID: OPR**

**EPA Method 1668C**

Matrix: Aqueous  
Sample Size: 1.00 L

QC Batch: B9J0309  
Date Extracted: 29-Oct-2019 5:50

Lab Sample: B9J0309-BS1  
Date Analyzed: 06-Nov-19 13:57 Column: ZB-1

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PCB-1	1070	1000	107	60 - 135	IS 13C-PCB-1	71.9	15 - 145
PCB-3	1150	1000	115	60 - 135	IS 13C-PCB-3	68.1	15 - 145
PCB-4/10	2040	2000	102	60 - 135	IS 13C-PCB-4	66.0	15 - 145
PCB-15	1010	1000	101	60 - 135	IS 13C-PCB-11	71.2	15 - 145
PCB-19	1100	1000	110	60 - 135	IS 13C-PCB-9	72.7	15 - 145
PCB-37	991	1000	99.1	60 - 135	IS 13C-PCB-19	74.8	15 - 145
PCB-54	1050	1000	105	60 - 135	IS 13C-PCB-28	71.7	15 - 145
PCB-77	1080	1000	108	60 - 135	IS 13C-PCB-32	75.1	15 - 145
PCB-81	1050	1000	105	60 - 135	IS 13C-PCB-37	72.5	15 - 145
PCB-104	1110	1000	111	60 - 135	IS 13C-PCB-47	70.7	15 - 145
PCB-105	980	1000	98.0	60 - 135	IS 13C-PCB-52	72.2	15 - 145
PCB-106/118	2210	2000	110	60 - 135	IS 13C-PCB-54	64.3	15 - 145
PCB-114	1000	1000	100	60 - 135	IS 13C-PCB-70	71.1	15 - 145
PCB-123	1120	1000	112	60 - 135	IS 13C-PCB-77	74.4	40 - 145
PCB-126	1010	1000	101	60 - 135	IS 13C-PCB-80	73.5	40 - 145
PCB-155	1120	1000	112	60 - 135	IS 13C-PCB-81	75.4	40 - 145
PCB-156	1100	1000	110	60 - 135	IS 13C-PCB-95	75.0	40 - 145
PCB-157	1050	1000	105	60 - 135	IS 13C-PCB-97	78.0	40 - 145
PCB-167	1060	1000	106	60 - 135	IS 13C-PCB-101	76.1	40 - 145
PCB-169	1040	1000	104	60 - 135	IS 13C-PCB-104	69.8	40 - 145
PCB-188	1080	1000	108	60 - 135	IS 13C-PCB-105	65.2	40 - 145
PCB-189	1080	1000	108	60 - 135	IS 13C-PCB-114	64.0	40 - 145
PCB-202	1160	1000	116	60 - 135	IS 13C-PCB-118	71.6	40 - 145
PCB-204	1180	1000	118	60 - 135	IS 13C-PCB-123	74.2	40 - 145
PCB-205	1070	1000	107	60 - 135	IS 13C-PCB-126	76.6	40 - 145
PCB-206	1060	1000	106	60 - 135	IS 13C-PCB-127	67.1	40 - 145
PCB-207	1050	1000	105	60 - 135	IS 13C-PCB-138	77.5	40 - 145
PCB-208	1050	1000	105	60 - 135	IS 13C-PCB-141	76.4	40 - 145
PCB-209	1070	1000	107	60 - 135	IS 13C-PCB-153	69.4	40 - 145
					IS 13C-PCB-155	61.6	40 - 145
					IS 13C-PCB-156	74.4	40 - 145
					IS 13C-PCB-157	76.9	40 - 145
					IS 13C-PCB-159	75.5	40 - 145
					IS 13C-PCB-167	76.0	40 - 145
					IS 13C-PCB-169	80.2	40 - 145
					IS 13C-PCB-170	84.6	40 - 145
					IS 13C-PCB-180	74.2	40 - 145
					IS 13C-PCB-188	70.8	40 - 145
					IS 13C-PCB-189	85.9	40 - 145
					IS 13C-PCB-194	77.4	40 - 145

**Sample ID: OPR**

**EPA Method 1668C**

Matrix: Aqueous  
Sample Size: 1.00 L

QC Batch: B9J0309  
Date Extracted: 29-Oct-2019 5:50

Lab Sample: B9J0309-BS1  
Date Analyzed: 06-Nov-19 13:57 Column: ZB-1

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
					IS 13C-PCB-202	59.5	40 - 145
					IS 13C-PCB-206	73.3	40 - 145
					IS 13C-PCB-208	77.8	40 - 145
					IS 13C-PCB-209	70.2	40 - 145
					CRS 13C-PCB-79	81.8	40 - 145
					CRS 13C-PCB-178	79.9	40 - 145

LCL-UCL - Lower control limit - upper control limit



**Sample ID: PDI-FB-1910101246**

**EPA Method 1668C**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	QC Water	Lab Sample:	1903655-04
Project:	Gasco PDI	Sample Size:	1.01 L	Date Received:	15-Oct-2019 8:51
Date Collected:	10-Oct-2019 12:46			QC Batch:	B9J0309
				Date Analyzed :	07-Nov-19 05:24 Column: ZB-1
				Date Extracted:	29-Oct-2019 5:50

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers
PCB-1	1.47			J	PCB-44	1.00			J
PCB-2	ND	0.334			PCB-45	ND	0.626		
PCB-3	ND	0.335			PCB-46	ND	0.672		
PCB-4/10	ND	1.85			PCB-47	35.5			
PCB-5/8	ND	1.41			PCB-48/75	ND	0.470		
PCB-6	ND	1.40			PCB-50	ND	0.593		
PCB-7/9	ND	1.46			PCB-51	ND		3.20	
PCB-11	ND		7.60		PCB-52/69	1.02			J
PCB-12/13	ND	1.43			PCB-53	ND	0.530		
PCB-14	ND	1.43			PCB-54	ND	0.465		
PCB-15	ND	1.44			PCB-55	ND	0.409		
PCB-16/32	1.97			J	PCB-56/60	ND	0.468		
PCB-17	ND		1.14		PCB-57	ND	0.439		
PCB-18	1.96			J	PCB-58	ND	0.414		
PCB-19	ND	0.470			PCB-61/70	ND	0.467		
PCB-20/21/33	ND	0.492			PCB-62	ND	0.452		
PCB-22	ND	0.478			PCB-63	ND	0.478		
PCB-23	ND	0.507			PCB-65	ND	0.434		
PCB-24/27	ND	0.376			PCB-66/76	ND		0.786	
PCB-25	ND	0.505			PCB-67	ND	0.463		
PCB-26	ND	0.493			PCB-68	3.81			J
PCB-28	ND		0.904		PCB-73	ND	0.393		
PCB-29	ND	0.518			PCB-74	ND	0.432		
PCB-30	ND	0.296			PCB-77	ND	0.452		
PCB-31	0.974			J	PCB-78	ND	0.431		
PCB-34	ND	0.500			PCB-79	ND	0.419		
PCB-35	ND	0.444			PCB-80	ND	0.403		
PCB-36	ND	0.427			PCB-81	ND	0.476		
PCB-37	ND	0.454			PCB-82	ND	0.707		
PCB-38	ND		1.09		PCB-83	ND	0.393		
PCB-39	ND	0.463			PCB-84/92	ND	0.612		
PCB-40	ND	0.835			PCB-85/116	ND	0.500		
PCB-41/64/71/72	ND		0.663		PCB-86	ND	0.610		
PCB-42/59	ND	0.502			PCB-87/117/125	ND	0.456		
PCB-43/49	0.967			J	PCB-88/91	ND	0.638		

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

**Sample ID: PDI-FB-1910101246**

**EPA Method 1668C**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	QC Water	Lab Sample:	1903655-04
Project:	Gasco PDI	Sample Size:	1.01 L	Date Received:	15-Oct-2019 8:51
Date Collected:	10-Oct-2019 12:46			QC Batch:	B9J0309
				Date Analyzed :	07-Nov-19 05:24 Column: ZB-1
				Date Extracted:	29-Oct-2019 5:50

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers
PCB-89	ND	0.561			PCB-137	ND	0.335		
PCB-90/101	1.86			J	PCB-138/163/164	ND		0.684	
PCB-93	ND	0.675			PCB-139/149	ND		0.921	
PCB-94	ND	0.734			PCB-140	ND	0.535		
PCB-95/98/102	ND	0.559			PCB-141	ND	0.342		
PCB-96	ND	0.399			PCB-142	ND	0.403		
PCB-97	ND	0.565			PCB-144	ND	0.504		
PCB-99	ND	0.481			PCB-145	ND	0.336		
PCB-100	ND	0.511			PCB-146/165	ND	0.297		
PCB-103	ND	0.513			PCB-147	ND	0.508		
PCB-104	ND	0.400			PCB-148	ND	0.484		
PCB-105	ND	0.549			PCB-150	ND	0.381		
PCB-106/118	ND	0.451			PCB-151	ND	0.531		
PCB-107/109	ND	0.409			PCB-152	ND	0.334		
PCB-108/112	ND	0.486			PCB-153	ND	0.282		
PCB-110	ND		1.02		PCB-154	ND	0.464		
PCB-111/115	ND	0.379			PCB-155	ND	0.384		
PCB-113	ND	0.437			PCB-156	ND	0.266		
PCB-114	ND	0.516			PCB-157	ND	0.286		
PCB-119	ND	0.413			PCB-158/160	ND	0.254		
PCB-120	ND	0.361			PCB-159	ND	0.237		
PCB-121	ND	0.410			PCB-166	ND	0.248		
PCB-122	ND	0.616			PCB-167	ND	0.249		
PCB-123	ND	0.458			PCB-168	ND	0.280		
PCB-124	ND	0.410			PCB-169	ND	0.292		
PCB-126	ND	0.473			PCB-170	ND	0.307		
PCB-127	ND	0.538			PCB-171	ND	0.278		
PCB-128/162	ND	0.311			PCB-172	ND	0.264		
PCB-129	ND	0.366			PCB-173	ND	0.302		
PCB-130	ND	0.394			PCB-174	ND	0.283		
PCB-131/133	ND	0.361			PCB-175	ND	0.262		
PCB-132/161	ND	0.293			PCB-176	ND	0.192		
PCB-134/143	ND	0.389			PCB-177	ND	0.278		
PCB-135	ND	0.469			PCB-178	ND	0.268		
PCB-136	ND	0.398			PCB-179	ND	0.189		

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

**Sample ID: PDI-FB-1910101246**

**EPA Method 1668C**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	QC Water	Lab Sample:	1903655-04
Project:	Gasco PDI	Sample Size:	1.01 L	Date Received:	15-Oct-2019 8:51
Date Collected:	10-Oct-2019 12:46			QC Batch:	B9J0309
				Date Analyzed :	07-Nov-19 05:24 Column: ZB-1
				Date Extracted:	29-Oct-2019 5:50

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers
PCB-180	ND	0.261			Total octaCB	ND		0.841	
PCB-181	ND	0.244			Total nonaCB	ND		0.202	
PCB-182/187	ND	0.232			DecaCB	ND	0.165		
PCB-183	ND	0.233			Total PCB	50.5			
PCB-184	ND	0.191							
PCB-185	ND	0.261							
PCB-186	ND	0.183							
PCB-188	ND	0.186							
PCB-189	ND	0.199							
PCB-190	ND	0.227							
PCB-191	ND	0.219							
PCB-192	ND	0.203							
PCB-193	ND	0.224							
PCB-194	ND		0.841						
PCB-195	ND	0.323							
PCB-196/203	ND	0.282							
PCB-197	ND	0.226							
PCB-198	ND	0.295							
PCB-199	ND	0.313							
PCB-200	ND	0.232							
PCB-201	ND	0.242							
PCB-202	ND	0.216							
PCB-204	ND	0.226							
PCB-205	ND	0.238							
PCB-206	ND	0.165							
PCB-207	ND	0.128							
PCB-208	ND		0.202						
PCB-209	ND	0.165							
Total monoCB	1.47								
Total diCB	ND		7.60						
Total triCB	4.90		8.03						
Total tetraCB	42.3		46.9						
Total pentaCB	1.86		2.87						
Total hexaCB	ND		1.61						
Total heptaCB	ND	0.307							

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

**Sample ID: PDI-FB-1910101246**

**EPA Method 1668C**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	QC Water	Lab Sample:	1903655-04
Project:	Gasco PDI	Sample Size:	1.01 L	Date Received:	15-Oct-2019 8:51
Date Collected:	10-Oct-2019 12:46			QC Batch:	B9J0309
				Date Analyzed :	07-Nov-19 05:24 Column: ZB-1
				Date Extracted:	29-Oct-2019 5:50

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	67.3	5 -145		13C-PCB-170	66.4	10 -145	
13C-PCB-3	68.5	5 -145		13C-PCB-180	72.9	10 -145	
13C-PCB-4	63.9	5 -145		13C-PCB-188	70.4	10 -145	
13C-PCB-11	70.8	5 -145		13C-PCB-189	69.2	10 -145	
13C-PCB-9	70.4	5 -145		13C-PCB-194	76.7	10 -145	
13C-PCB-19	77.3	5 -145		13C-PCB-202	60.6	10 -145	
13C-PCB-28	73.6	5 -145		13C-PCB-206	73.4	10 -145	
13C-PCB-32	73.8	5 -145		13C-PCB-208	78.8	10 -145	
13C-PCB-37	82.1	5 -145		13C-PCB-209	60.1	10 -145	
13C-PCB-47	77.6	5 -145		CRS 13C-PCB-79	88.1	10 -145	
13C-PCB-52	78.1	5 -145		13C-PCB-178	79.2	10 -145	
13C-PCB-54	66.3	5 -145					
13C-PCB-70	74.3	5 -145					
13C-PCB-77	79.0	10 -145					
13C-PCB-80	72.9	10 -145					
13C-PCB-81	78.3	10 -145					
13C-PCB-95	72.2	10 -145					
13C-PCB-97	81.7	10 -145					
13C-PCB-101	78.9	10 -145					
13C-PCB-104	77.4	10 -145					
13C-PCB-105	62.9	10 -145					
13C-PCB-114	65.0	10 -145					
13C-PCB-118	74.1	10 -145					
13C-PCB-123	78.0	10 -145					
13C-PCB-126	72.8	10 -145					
13C-PCB-127	63.6	10 -145					
13C-PCB-138	77.5	10 -145					
13C-PCB-141	73.1	10 -145					
13C-PCB-153	68.4	10 -145					
13C-PCB-155	59.8	10 -145					
13C-PCB-156	74.5	10 -145					
13C-PCB-157	73.9	10 -145					
13C-PCB-159	75.5	10 -145					
13C-PCB-167	76.9	10 -145					
13C-PCB-169	69.0	10 -145					

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

**Sample ID: PDI-RB-1910101241**

**EPA Method 1668C**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	QC Water	Lab Sample:	1903655-05
Project:	Gasco PDI	Sample Size:	1.01 L	Date Received:	15-Oct-2019 8:51
Date Collected:	10-Oct-2019 12:41			QC Batch:	B9J0309
				Date Analyzed :	07-Nov-19 06:26 Column: ZB-1
				Date Extracted:	29-Oct-2019 5:50

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers
PCB-1	ND		1.01		PCB-44	1.10			J
PCB-2	ND	0.202			PCB-45	ND	0.516		
PCB-3	ND		0.644		PCB-46	ND	0.553		
PCB-4/10	ND	1.31			PCB-47	ND		1.88	
PCB-5/8	ND	1.18			PCB-48/75	ND	0.378		
PCB-6	ND	1.18			PCB-50	ND	0.419		
PCB-7/9	ND	1.22			PCB-51	ND	0.407		
PCB-11	5.98				PCB-52/69	ND		0.955	
PCB-12/13	ND	1.12			PCB-53	ND	0.437		
PCB-14	ND	1.12			PCB-54	ND	0.328		
PCB-15	ND	1.13			PCB-55	ND	0.322		
PCB-16/32	ND		1.15		PCB-56/60	ND		0.514	
PCB-17	ND		0.583		PCB-57	ND	0.351		
PCB-18	1.60			J	PCB-58	ND	0.331		
PCB-19	ND	0.383			PCB-61/70	ND		0.923	
PCB-20/21/33	1.06			J	PCB-62	ND	0.364		
PCB-22	ND		0.645		PCB-63	ND	0.382		
PCB-23	ND	0.357			PCB-65	ND	0.349		
PCB-24/27	ND	0.285			PCB-66/76	1.04			J
PCB-25	ND	0.355			PCB-67	ND	0.370		
PCB-26	ND		0.372		PCB-68	ND	0.349		
PCB-28	ND		0.861		PCB-73	ND	0.323		
PCB-29	ND	0.364			PCB-74	ND		0.508	
PCB-30	ND	0.242			PCB-77	ND	0.396		
PCB-31	ND		1.02		PCB-78	ND	0.390		
PCB-34	ND	0.352			PCB-79	ND	0.329		
PCB-35	ND	0.292			PCB-80	ND	0.317		
PCB-36	ND	0.281			PCB-81	ND	0.432		
PCB-37	ND	0.299			PCB-82	ND	0.607		
PCB-38	ND	0.293			PCB-83	ND	0.344		
PCB-39	ND	0.305			PCB-84/92	ND	0.515		
PCB-40	ND	0.672			PCB-85/116	ND	0.438		
PCB-41/64/71/72	ND		0.841		PCB-86	ND	0.535		
PCB-42/59	0.340			J	PCB-87/117/125	ND	0.399		
PCB-43/49	ND		0.603		PCB-88/91	ND		0.446	

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

**Sample ID: PDI-RB-1910101241**

**EPA Method 1668C**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	QC Water	Lab Sample:	1903655-05
Project:	Gasco PDI	Sample Size:	1.01 L	Date Received:	15-Oct-2019 8:51
Date Collected:	10-Oct-2019 12:41			QC Batch:	B9J0309
				Date Analyzed :	07-Nov-19 06:26 Column: ZB-1
				Date Extracted:	29-Oct-2019 5:50

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers
PCB-89	ND	0.471			PCB-137	ND	0.272		
PCB-90/101	ND		1.07		PCB-138/163/164	ND	0.225		
PCB-93	ND	0.493			PCB-139/149	ND	0.327		
PCB-94	ND	0.536			PCB-140	ND	0.385		
PCB-95/98/102	ND	0.408			PCB-141	ND	0.278		
PCB-96	ND	0.296			PCB-142	ND	0.333		
PCB-97	ND	0.495			PCB-144	ND	0.363		
PCB-99	ND	0.404			PCB-145	ND	0.242		
PCB-100	ND	0.380			PCB-146/165	ND	0.246		
PCB-103	ND	0.381			PCB-147	ND	0.366		
PCB-104	ND	0.297			PCB-148	ND	0.349		
PCB-105	ND	0.351			PCB-150	ND	0.274		
PCB-106/118	ND	0.364			PCB-151	ND	0.382		
PCB-107/109	ND	0.351			PCB-152	ND	0.241		
PCB-108/112	ND	0.426			PCB-153	ND	0.233		
PCB-110	ND		0.733		PCB-154	ND	0.334		
PCB-111/115	ND	0.332			PCB-155	ND	0.277		
PCB-113	ND	0.367			PCB-156	ND	0.233		
PCB-114	ND	0.333			PCB-157	ND	0.252		
PCB-119	ND	0.362			PCB-158/160	ND	0.234		
PCB-120	ND	0.317			PCB-159	ND	0.219		
PCB-121	ND	0.299			PCB-166	ND	0.229		
PCB-122	ND	0.398			PCB-167	ND	0.238		
PCB-123	ND	0.393			PCB-168	ND	0.231		
PCB-124	ND	0.352			PCB-169	ND	0.222		
PCB-126	ND	0.362			PCB-170	ND	0.288		
PCB-127	ND	0.346			PCB-171	ND	0.288		
PCB-128/162	ND	0.288			PCB-172	ND	0.273		
PCB-129	ND	0.337			PCB-173	ND	0.313		
PCB-130	ND	0.319			PCB-174	ND	0.293		
PCB-131/133	ND	0.299			PCB-175	ND	0.264		
PCB-132/161	ND	0.242			PCB-176	ND	0.194		
PCB-134/143	ND	0.322			PCB-177	ND	0.288		
PCB-135	ND	0.338			PCB-178	ND	0.270		
PCB-136	ND	0.287			PCB-179	ND	0.191		

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

**Sample ID: PDI-RB-1910101241**

**EPA Method 1668C**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	QC Water	Lab Sample:	1903655-05
Project:	Gasco PDI	Sample Size:	1.01 L	Date Received:	15-Oct-2019 8:51
Date Collected:	10-Oct-2019 12:41			QC Batch:	B9J0309
				Date Analyzed :	07-Nov-19 06:26 Column: ZB-1
				Date Extracted:	29-Oct-2019 5:50

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers
PCB-180	ND	0.271			Total octaCB	ND		0.608	
PCB-181	ND	0.253			Total nonaCB	ND	0.127		
PCB-182/187	ND	0.234			DecaCB	ND		0.258	
PCB-183	ND	0.235			Total PCB	11.1			
PCB-184	ND	0.192							
PCB-185	ND	0.271							
PCB-186	ND	0.184							
PCB-188	ND	0.188							
PCB-189	ND	0.209							
PCB-190	ND	0.213							
PCB-191	ND	0.227							
PCB-192	ND	0.210							
PCB-193	ND	0.232							
PCB-194	ND		0.608						
PCB-195	ND	0.192							
PCB-196/203	ND	0.233							
PCB-197	ND	0.187							
PCB-198	ND	0.245							
PCB-199	ND	0.259							
PCB-200	ND	0.192							
PCB-201	ND	0.200							
PCB-202	ND	0.179							
PCB-204	ND	0.187							
PCB-205	ND	0.142							
PCB-206	ND	0.127							
PCB-207	ND	0.101							
PCB-208	ND	0.0987							
PCB-209	ND		0.258						
Total monoCB	ND		1.66						
Total diCB	5.98								
Total triCB	2.65		7.28						
Total tetraCB	2.47		8.70						
Total pentaCB	ND		2.25						
Total hexaCB	ND	0.385							
Total heptaCB	ND	0.313							

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

**Sample ID: PDI-RB-1910101241**

**EPA Method 1668C**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	QC Water	Lab Sample:	1903655-05
Project:	Gasco PDI	Sample Size:	1.01 L	Date Received:	15-Oct-2019 8:51
Date Collected:	10-Oct-2019 12:41			QC Batch:	B9J0309
				Date Analyzed :	07-Nov-19 06:26
				Column:	ZB-1

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	67.5	5 -145		13C-PCB-170	90.0	10 -145	
13C-PCB-3	74.6	5 -145		13C-PCB-180	87.1	10 -145	
13C-PCB-4	73.1	5 -145		13C-PCB-188	87.5	10 -145	
13C-PCB-11	76.4	5 -145		13C-PCB-189	83.6	10 -145	
13C-PCB-9	68.4	5 -145		13C-PCB-194	84.5	10 -145	
13C-PCB-19	84.5	5 -145		13C-PCB-202	71.8	10 -145	
13C-PCB-28	76.1	5 -145		13C-PCB-206	83.4	10 -145	
13C-PCB-32	83.9	5 -145		13C-PCB-208	83.4	10 -145	
13C-PCB-37	89.6	5 -145		13C-PCB-209	77.5	10 -145	
13C-PCB-47	88.1	5 -145		CRS 13C-PCB-79	84.8	10 -145	
13C-PCB-52	85.2	5 -145		13C-PCB-178	87.2	10 -145	
13C-PCB-54	84.0	5 -145					
13C-PCB-70	86.9	5 -145					
13C-PCB-77	84.1	10 -145					
13C-PCB-80	84.5	10 -145					
13C-PCB-81	79.8	10 -145					
13C-PCB-95	90.5	10 -145					
13C-PCB-97	86.1	10 -145					
13C-PCB-101	87.2	10 -145					
13C-PCB-104	98.1	10 -145					
13C-PCB-105	75.8	10 -145					
13C-PCB-114	77.1	10 -145					
13C-PCB-118	87.2	10 -145					
13C-PCB-123	90.5	10 -145					
13C-PCB-126	75.1	10 -145					
13C-PCB-127	76.4	10 -145					
13C-PCB-138	85.4	10 -145					
13C-PCB-141	88.2	10 -145					
13C-PCB-153	83.1	10 -145					
13C-PCB-155	73.0	10 -145					
13C-PCB-156	81.5	10 -145					
13C-PCB-157	81.5	10 -145					
13C-PCB-159	79.0	10 -145					
13C-PCB-167	78.2	10 -145					
13C-PCB-169	87.0	10 -145					

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.



## DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

### Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	19-013-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-23
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2018017
Massachusetts Department of Environmental Protection	N/A
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	1521520
New Hampshire Environmental Accreditation Program	207718-B
New Jersey Department of Environmental Protection	190001
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-010
Pennsylvania Department of Environmental Protection	016
Texas Commission on Environmental Quality	T104704189-19-10
Vermont Department of Health	VT-4042
Virginia Department of General Services	10272
Washington Department of Ecology	C584-19
Wisconsin Department of Natural Resources	998036160

*Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.*

## NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA 23
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS	EPA 1613/1613B
1,4-Dioxane (1,4-Diethyleneoxide) analysis by GC/HRMS	EPA 522
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**

1903655 1.3°C, 3.8°C, 2.5°C, 3.6°C

**COC ID:** VISTA-20191010-175158  
**Sample Custodian:** CO  
**Lab:** VISTA

**POC: #** Delaney Peterson (360-715-2707)  
 1605 Cornwall Avenue, Bellingham, WA 98225  
**Project:** Gasco PDI  
**Client:** NW Natural

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-032SC-A-00-01-191010	N	SE	10/10/2019	8:17	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								PCB Congeners	E1668A	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
002	PDI-032SC-A-11-12-191010	N	SE	10/10/2019	8:17	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
003	PDI-032SC-A-12-12.8-191010	N	SE	10/10/2019	8:17	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
004	PDI-FB-1910101246	FB	WQ	10/10/2019	12:46	4	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								PCB Congeners	E1668A	30	4°C
005	PDI-RB-1910101241	RB	WQ	10/10/2019	12:41	4	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								PCB Congeners	E1668A	30	4°C
006	PDI-035SC-A-00-01-191010	N	SE	10/10/2019	14:18	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								PCB Congeners	E1668A	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
007	PDI-035SC-A-11-12-191010	N	SE	10/10/2019	14:18	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Print Name: C. OREIRO	Print Name: Hayden Crana	Print Name:	Print Name:	Print Name:	Print Name:
Company: AQ	Company: VAL	Company:	Company:	Company:	Company:
Date/Time: 10/14/19 07:55	Date/Time: 10/15/19 08:51	Date/Time:	Date/Time:	Date/Time:	Date/Time:

\* Lab QC Requested for sample when box is checked \*\* TAT = Turn Around Time in DAYS # POC = Project Point of Contact

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

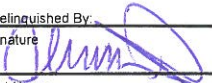

1903655

POC: # Delaney Peterson (360-715-2707)  
 1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI  
 Client: NW Natural

COC ID: VISTA-20191010-175158  
 Sample Custodian: CO, SN, DL, BJ  
 Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
008	PDI-035SC-A-12-12.7-191010	N	SE	10/10/2019	14:18	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
009	PDI-041SC-A-12-13-191010	N	SE	10/10/2019	9:56	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
010	PDI-041SC-A-13-14.2-191010	N	SE	10/10/2019	9:56	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
011	PDI-045SC-A-12-13-191010	N	SE	10/10/2019	17:36	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
012	PDI-045SC-A-13-13.6-191010	N	SE	10/10/2019	17:36	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
013	PDI-067SC-A-12-13-191010	N	SE	10/10/2019	15:59	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
014	PDI-067SC-A-13-13.8-191010	N	SE	10/10/2019	15:59	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C

Comment:					
Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature 	Signature 	Signature	Signature	Signature	Signature
Print Name C. OREIRO	Print Name Hayden Crana	Print Name	Print Name	Print Name	Print Name
Company AQ	Company VAC	Company	Company	Company	Company
Date/Time 10/14/19 0755	Date/Time 10/15/19 08:51	Date/Time	Date/Time	Date/Time	Date/Time

\* Lab QC Requested for sample when box is checked \*\* TAT = Turn Around Time in DAYS # POC = Project Point of Contact

# Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 1903655 TAT std

Samples Arrival:	Date/Time <u>10/15/19 08:51</u>	Initials: <u>HGG</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>NA</u>
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac
	<input type="radio"/> GSO	<input type="radio"/> DHL	<input type="radio"/> Hand Delivered
	<input type="radio"/> Other		
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
	<input type="radio"/> None		
Temp °C: <u>1.3</u> (uncorrected)	Probe used: <u>Y / (N)</u>		Thermometer ID: <u>IR-3</u>
Temp °C: <u>1.3</u> (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>1 of 4</u> Trk # <u>7767 1463 7746</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	
Chain of Custody / Sample Documentation Present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Logged In:	Date/Time <u>10/16/19 1201</u>	Initials: <u>ajm</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>A-1</u>
COC Anomaly/Sample Acceptance Form completed?			<input type="checkbox"/>
			<input checked="" type="checkbox"/>
			<input checked="" type="checkbox"/>

Comments:



# Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 1903655 TAT Std

Samples Arrival:	Date/Time		Initials:		Location: <u>WR-2</u>		
	<u>10/15/19 08:51</u>		<u>HOG</u>		Shelf/Rack: <u>NA</u>		
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GSO	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Dry Ice		<input type="checkbox"/> None
Temp °C: <u>3.8</u>	<u>(uncorrected)</u>		Probe used: <u>Y</u> / <input checked="" type="checkbox"/> <u>N</u>			Thermometer ID: <u>IR-4</u>	
Temp °C: <u>3.8</u>	<u>(corrected)</u>						

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>2 of 4</u>	Trk # <u>7767 1463 7378</u>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/>	<input checked="" type="checkbox"/> Return	<input type="checkbox"/> Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logged In:	Date/Time		Initials:
	<u>10/16/19 1201</u>		<u>ajm</u>
	Location: <u>WR-2</u>		Shelf/Rack: <u>A-1</u>
COC Anomaly/Sample Acceptance Form completed?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:



# Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 1908655 TAT std

Samples Arrival:	Date/Time <u>10/15/19 08:51</u>		Initials: <u>HOG</u>		Location: <u>WR-2</u>		
	Shelf/Rack: <u>NA</u>						
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GSO	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input type="checkbox"/> Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Dry Ice		<input type="checkbox"/> None
Temp °C: <u>2.5</u> (uncorrected)	Probe used: <u>Y</u> / <input checked="" type="checkbox"/> <u>N</u>				Thermometer ID: <u>IR-3</u>		
Temp °C: <u>2.5</u> (corrected)							

	YES	NO	NA		
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Airbill <u>3 of 4</u> Trk # <u>7767 1463 8102</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> <u>Client</u>	<input type="checkbox"/> Retain	<input checked="" type="checkbox"/> <u>Return</u>	<input type="checkbox"/> Dispose
Chain of Custody / Sample Documentation Present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Chain of Custody / Sample Documentation Complete?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Logged In:	Date/Time <u>10/16/19 1201</u>	Initials:	Location: <u>WR-2</u>
			Shelf/Rack: <u>2-1</u>
COC Anomaly/Sample Acceptance Form completed?			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

Comments:

# Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 1903655 TAT std

<b>Samples Arrival:</b>	<b>Date/Time:</b> 10/15/19 0851	<b>Initials:</b> VMS	<b>Location:</b> WR-2
			<b>Shelf/Rack:</b> N/A
<b>Delivered By:</b>	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac
		<input type="radio"/> GSO	<input type="radio"/> DHL
		<input type="radio"/> Hand Delivered	<input type="radio"/> Other
<b>Preservation:</b>	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
	<input type="radio"/> None		
<b>Temp °C:</b> 3.6 (uncorrected)	<b>Probe used:</b> Y / <input checked="" type="radio"/> N		<b>Thermometer ID:</b> IR-3
<b>Temp °C:</b> 3.6 (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>4 of 4</u>   Trk # <u>7767 1463 8021</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input type="radio"/> Vista	<input checked="" type="radio"/> Client	<input type="radio"/> Retain
			<input checked="" type="radio"/> Return
		<input type="radio"/> Dispose	
Chain of Custody / Sample Documentation Present? <u>COC present in other codes</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Holding Time Acceptable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

<b>Logged In:</b>	<b>Date/Time:</b> 10/16/19 1201	<b>Initials:</b>	<b>Location:</b> WR-2
			<b>Shelf/Rack:</b> 21
COC Anomaly/Sample Acceptance Form completed?			<input type="checkbox"/>
			<input checked="" type="checkbox"/>
			<input checked="" type="checkbox"/>

Comments:

# CoC/Label Reconciliation Report WO# 1903655

LabNumber	CoC Sample ID	Label ID matches COCID	Label ID doesn't match COCID	SampleAlias	Sampled	Label Sampled matches	Sampled doesn't match	Container	Container Correct	Sample BaseMatrix Comments
4	1903655-01 A PDI-032SC-A-00-01-191010	<input checked="" type="checkbox"/>		001	10-Oct-19 08:17	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid
4	1903655-02 A PDI-032SC-A-11-12-191010	<input checked="" type="checkbox"/>		002	10-Oct-19 08:17	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid
4	1903655-03 A PDI-032SC-A-12-12.8-191010	<input checked="" type="checkbox"/>		003	10-Oct-19 08:17	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid
3	1903655-04 A PDI-FB-1910101246	<input checked="" type="checkbox"/>		004	10-Oct-19 12:46	<input checked="" type="checkbox"/>		Amber Glass NM Bottle, 1L	<input checked="" type="checkbox"/>	Aqueous
3	1903655-04 B PDI-FB-1910101246	<input checked="" type="checkbox"/>		004	10-Oct-19 12:46	<input checked="" type="checkbox"/>		Amber Glass NM Bottle, 1L	<input checked="" type="checkbox"/>	Aqueous
3	1903655-04 C PDI-FB-1910101246	<input checked="" type="checkbox"/>		004	10-Oct-19 12:46	<input checked="" type="checkbox"/>		Amber Glass NM Bottle, 1L	<input checked="" type="checkbox"/>	Aqueous
3	1903655-04 D PDI-FB-1910101246	<input checked="" type="checkbox"/>		004	10-Oct-19 12:46	<input checked="" type="checkbox"/>		Amber Glass NM Bottle, 1L	<input checked="" type="checkbox"/>	Aqueous
1	1903655-05 A PDI-RB-1910101241	<input checked="" type="checkbox"/>		005	10-Oct-19 12:41	<input checked="" type="checkbox"/>		Amber Glass NM Bottle, 1L	<input type="checkbox"/>	Aqueous
1	1903655-05 B PDI-RB-1910101241	<input checked="" type="checkbox"/>		005	10-Oct-19 12:41	<input checked="" type="checkbox"/>		Amber Glass NM Bottle, 1L	<input type="checkbox"/>	Aqueous
1	1903655-05 C PDI-RB-1910101241	<input checked="" type="checkbox"/>		005	10-Oct-19 12:41	<input checked="" type="checkbox"/>		Amber Glass NM Bottle, 1L	<input type="checkbox"/>	Aqueous
1	1903655-05 D PDI-RB-1910101241	<input checked="" type="checkbox"/>		005	10-Oct-19 12:41	<input checked="" type="checkbox"/>		Amber Glass NM Bottle, 1L	<input type="checkbox"/>	Aqueous
2	1903655-06 A PDI-035SC-A-00-01-191010	<input checked="" type="checkbox"/>		006	10-Oct-19 14:18	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid
2	1903655-07 A PDI-035SC-A-11-12-191010	<input checked="" type="checkbox"/>		007	10-Oct-19 14:18	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid
2	1903655-08 A PDI-035SC-A-12-12.7-191010	<input checked="" type="checkbox"/>		008	10-Oct-19 14:18	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid
4	1903655-09 A PDI-041SC-A-12-13-191010	<input checked="" type="checkbox"/>		009	10-Oct-19 09:56	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid
4	1903655-10 A PDI-041SC-A-13-14.2-191010	<input checked="" type="checkbox"/>		010	10-Oct-19 09:56	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid
4	1903655-11 A PDI-045SC-A-12-13-191010	<input checked="" type="checkbox"/>		011	10-Oct-19 17:36	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid
4	1903655-12 A PDI-045SC-A-13-13.6-191010	<input checked="" type="checkbox"/>		012	10-Oct-19 17:36	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid
4	1903655-13 A PDI-067SC-A-12-13-191010	<input checked="" type="checkbox"/>		013	10-Oct-19 15:59	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid
2	1903655-14 A PDI-067SC-A-13-13.8-191010	<input checked="" type="checkbox"/>		014	10-Oct-19 15:59	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid

	Yes	No	NA
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Adequate Sample Volume?	✓		
Preservation Documented: Na2S2O3 Trizma None Other			✓
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓

Comments:

Verified by/Date: \*

KE 10/17/19

\* again signing for HDG

"4" = cooler 4  
 "3" = Cooler 3  
 "2" = Cooler 2  
 "1" = cooler 1

## **EXTRACTION INFORMATION**

Process Sheet  
 Workorder: **1903655**

Prep Expiration: 2020-10-09  
 Client: Anchor QEA, LLC

05-Nov-19  
 Workorder Due: **12-Nov-19 00:00**  
 TAT: 28 21 @ 10/10/19

Method: **1613 Full List**  
 Matrix: **Solid**  
 Client Matrix: Sediment  
 Also run: **Percent Solids**

Prep Batch: B930322  
 Prep Data Entered: AO 11/01/19  
Date and Initials  
 Initial Sequence: S920037

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1903655-01	<input checked="" type="checkbox"/>	PDI-032SC-A-00-01-191010	15-Oct-19 08:51	WR-2 A-1	
1903655-02	<input checked="" type="checkbox"/>	PDI-032SC-A-11-12-191010	15-Oct-19 08:51	WR-2 A-1	
1903655-03	<input checked="" type="checkbox"/>	PDI-032SC-A-12-12.8-191010	15-Oct-19 08:51	WR-2 A-1	
1903655-06	<input checked="" type="checkbox"/>	PDI-035SC-A-00-01-191010	15-Oct-19 08:51	WR-2 A-1	
1903655-07	<input checked="" type="checkbox"/>	PDI-035SC-A-11-12-191010	15-Oct-19 08:51	WR-2 A-1	
1903655-08	<input checked="" type="checkbox"/>	PDI-035SC-A-12-12.7-191010	15-Oct-19 08:51	WR-2 A-1	
1903655-09	<input checked="" type="checkbox"/>	PDI-041SC-A-12-13-191010	15-Oct-19 08:51	WR-2 A-1	
1903655-10	<input checked="" type="checkbox"/>	PDI-041SC-A-13-14.2-191010	15-Oct-19 08:51	WR-2 A-1	
1903655-11	<input checked="" type="checkbox"/>	PDI-045SC-A-12-13-191010	15-Oct-19 08:51	WR-2 A-1	
1903655-12	<input checked="" type="checkbox"/>	PDI-045SC-A-13-13.6-191010	15-Oct-19 08:51	WR-2 A-1	
1903655-13	<input checked="" type="checkbox"/>	PDI-067SC-A-12-13-191010	15-Oct-19 08:51	WR-2 A-1	
1903655-14	<input checked="" type="checkbox"/>	PDI-067SC-A-13-13.8-191010	15-Oct-19 08:51	WR-2 A-1	

WO Comments: ~~Pest 1g extraction (dry weight)~~  
**Dioxin - 10g (dry weight)**  
~~POB 5g extraction (dry weight)~~

Pre-Prep Check Out: AO 10/22/19 NA AO 10/22/19 Prep Check Out: KL 10/30/19 Prep Reconciled Initials/Date: AO 10/29/19  
 Pre-Prep Check In: AO 10/29/19 Prep Check In: KL 10/30/19 Spike Reconciled Initials/Date: KL 10/30/19  
 VialBoxID: Dragon Ball Z  
AZ 12/10/19  
 Hachiman.



PREPARATION BENCH SHEET

Matrix: Solid

B9J0322

Chemist: KL

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 30-Oct-19 11:02

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B9J0322-BLK1	NA	(10.00)	KL 10/30/19	AO KL 10/31/19	KL 10/31/19	KL <sup>90</sup> 10/31/19	KL 10/31/19	AO 11/01/19	AO AE 10/01/19
<input type="checkbox"/>	B9J0322-BS1	NA	(10.00)							
<input type="checkbox"/>	B9J0322-DUP1 1903648-01	15.25	15.31			NA				
<input type="checkbox"/>	1903648-01	15.25	15.27							
<input type="checkbox"/>	1903648-02	14.15	14.14							
<input type="checkbox"/>	1903648-03	14.32	14.33			KL 10/31/19				
<input type="checkbox"/>	1903648-04	15.88	15.95			NA				
<input type="checkbox"/>	1903648-05	15.34	15.40							
<input type="checkbox"/>	1903648-06	KL 15.35	13.56							
<input type="checkbox"/>	1903648-07	14.04	14.20							
<input type="checkbox"/>	1903655-01	12.21	12.22							
<input type="checkbox"/>	1903655-02	11.46	11.52							
<input type="checkbox"/>	1903655-03	14.00	14.00							
<input type="checkbox"/>	1903655-06	15.90	15.92			KL 10/31/19				
<input type="checkbox"/>	1903655-07	11.88	11.88			NA				

IS Name <u>V2</u>	NS Name <u>U5</u>	CRS Name <u>V4</u>	RS Name <u>V7</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>KL 10/30/19</u>
PCDD/F <u>19C1902, V2, 10L</u>	PCDD/F <u>18F1915, 10L</u>	PCDD/F <u>19I1602, 10ML</u>	PCDD/F <u>19I1603, 10ML</u>	Start Date/Time <u>10/30/19 14:28</u>	SOLV: <u>tol</u>	Check In: Chemist/Date: <u>KL 10/30/19</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>10/31/19 6:28</u>	Other <u>NA</u>	Balance ID: <u>HRMS-6</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>C14 20mL</u>		

Comments:

- 1 = Sample approached dryness on rotovap
- 2 = Sample bumped on rotovap; lost < 5%
- 3 = Sample poured through Na2SO4 to remove water
- 4 = Precipitate present at Final Volume
- 5 = Sample homogenized in secondary container
- 6 = Sample clogged during extraction; pipetted and used Nitrogen to assist

PREPARATION BENCH SHEET

Matrix: Solid

B9J0322

Chemist: RL

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 30-Oct-19 11:02

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	1903655-08	13.40	13.41	<u>RL</u> 10/30/19	<u>AO</u> 10/31/19	NA	<u>AO</u> 10/31/19	<u>RL</u> 10/31/19	<u>OO</u> 11/01/19	<u>AO</u> 11/01/19
<input type="checkbox"/>	1903655-09	11.80	11.80	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903655-10	14.36	14.47	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903655-11	13.17	13.17	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903655-12	13.94	13.94	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903655-13	14.56	14.56	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903655-14	14.66	14.67	↓	↓	↓	↓	↓	↓	↓

IS Name <u>V2</u>	NS Name <u>V3</u>	CRS Name <u>V4</u>	RS Name <u>V7</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: <u>RL 10/30/19</u>
PCDD/F <u>19C1902, 10 mL</u>	PCDD/F <u>18F1913, 10 mL</u>	PCDD/F <u>19I1602, 10 mL</u>	PCDD/F <u>19I1603, 10 mL</u>	Start Date/Time 10/30/19 14:29	SOLV: <u>tol</u>	Check In: <u>RL 10/30/19</u>
PCB	PCB	PCB	PCB	Stop Date/Time 10/31/19 6:28	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH	PAH	PAH	PAH	Final Volume(s) <u>C14</u> <u>20 mL</u>		

Comments:

- 1 = Sample approached dryness on rotovap
- 2 = Sample bumped on rotovap; lost < 5%
- 3 = Sample poured through Na2SO4 to remove water
- 4 = Precipitate present at Final Volume
- 5 = Sample homogenized in secondary container
- 6 = Sample clogged during extraction; pipetted and used Nitrogen to assist



LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903648-01	15.27	65.58659	10.0151	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903648-02	14.14	70.68965	9.9955	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903648-03	14.33	69.82544	10.0060	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903648-04	15.95	62.95399	10.0412	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903648-05	15.4	65.18608	10.0387	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903648-06	13.56	73.81465	10.0093	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903648-07	14.2	71.24999	10.1175	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-01	12.22	81.86813	10.0043	✓ 20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-02	11.52	87.24428	10.0505	✓ 20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-03	14	71.42857	10.0000	✓ 20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-06	15.92	62.88783	10.0117	✓ 20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-07	11.88	84.17367	9.9998	✓ 20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-08	13.41	74.64455	10.0098	✓ 20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-09	11.8	84.77367	10.0033	✓ 20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-10	14.47	69.64091	10.0770	✓ 20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-11	13.17	75.94936	10.0025	✓ 20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-12	13.98	71.71718	10.0261	✓ 20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-13	14.56	68.69774	10.0024	✓ 20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-14	14.67	68.21367	10.0069	✓ 20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
B9J0322-BLK1	10			20	30-Oct-19 11:02	JJC				QC
B9J0322-BS1	10			20	30-Oct-19 11:02	JJC	18F1913	10		QC
B9J0322-DUP1	15.31	65.58659	10.0413	20	30-Oct-19 11:02	JJC				QC

All bolded data on report verified against written benchsheet by (initial/date) AO 11/01/19

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9J0198

Analyst: AO	Test Code: %Moist/%Solids	Data Entry Verified by: (Initial and Date) <u>EC 10/30/19</u>
Analyte: Dried at 110°C+/-5°C	Units: %	
Oven ID: <u>01</u> 02		

Inst HRMS-10

Date/Time IN: 10/29/19 845 Date/Time OUT: 10/30/19 1016

Particle Size	SampID	SampType	Initial and Date:		G		H	I	K				P	
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	AO 10/29/19	JC 10/30/19			AO 10/29/19	Visual Inspection	Cl-	pH Before		pH After
	1903655-01	Sample	1.2600 ✓	8.5400 ✓	AO 10/29/19	7.2200 ✓	5.9600	81.87	WET SAND	NA	NA	NA	NA	Y
	1903655-02	Sample	1.2800 ✓	9.5900 ✓	AO 10/29/19	8.5300 ✓	7.2500	87.24	WET SAND	NA	NA	NA	NA	Y
	1903655-03	Sample	1.2700 ✓	9.4600 ✓	AO 10/29/19	7.1200 ✓	5.8500	71.43	WET SAND	NA	NA	NA	NA	Y
	1903655-06	Sample	1.2900 ✓	9.6700 ✓	AO 10/29/19	6.5600 ✓	5.2700	62.89	MUD	NA	NA	NA	NA	Y
	1903655-07	Sample	1.2800 ✓	8.4200 ✓	AO 10/29/19	7.2900 ✓	6.0100	84.17	WET SAND	NA	NA	NA	NA	Y
	1903655-08	Sample	1.2800 ✓	13.9400 ✓	AO 10/29/19	10.7300 ✓	9.4500	74.64	WET SAND	NA	NA	NA	NA	Y
	1903655-09	Sample	1.2800 ✓	8.5700 ✓	AO 10/29/19	7.4600 ✓	6.1800	84.77	WET SAND	NA	NA	NA	NA	Y
	1903655-10	Sample	1.2800 ✓	10.4700 ✓	AO 10/29/19	7.6800 ✓	6.4000	69.64	MUD	NA	NA	NA	NA	Y
	1903655-11	Sample	1.2700 ✓	11.5400 ✓	AO 10/29/19	9.0700 ✓	7.8000	75.95	WET SAND	NA	NA	NA	NA	Y
	1903655-12	Sample	1.2900 ✓	13.1700 ✓	AO 10/29/19	9.8100 ✓	8.5200	71.72	WET SAND	NA	NA	NA	NA	Y
	1903655-13	Sample	1.2800 ✓	9.6500 ✓	AO 10/29/19	7.0300 ✓	5.7500	68.70	WET SAND	NA	NA	NA	NA	Y
	1903655-14	Sample	1.2700 ✓	12.6900 ✓	AO 10/29/19	9.0600 ✓	7.7900	68.21	MUD	NA	NA	NA	NA	Y

\*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9J0198

Analyst: <u>ao</u>	Test Code: %Moist/%Solids	Data Entry Verified by: (Initial and Date) <u>NA</u>
Analyte:	Units: %	
Oven ID: <u>01</u> 02	Dried at 110°C +/- 5°C	

Inst HRMS-10 Date/Time IN: 10/29/19 8:45 Date/Time OUT: 10/30/19 10:16

Particle Size	SampID	SampType	Initial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
			Pan Tare Wt. (gms)	Intial and Date:										
				<u>ao 10/29/19</u>		<u>ac 10/30/19</u>			<u>ao 10/29/19</u>					<u>ao 10/29/19</u>
	1903655-01	Sample	1.26		8.54	7.22			wet sand					X
	1903655-02	Sample	1.28		9.59	8.53			↓					X
	1903655-03	Sample	1.27		9.46	7.12			↓					X
	1903655-06	Sample	1.29		9.67	6.56			Mud					X
	1903655-07	Sample	1.28		8.42	7.29			wet sand					X
	1903655-08	Sample	1.28		13.94	12.73			↓					X
	1903655-09	Sample	1.28		8.57	7.46			↓					X
	1903655-10	Sample	1.28		10.44	7.68			Mud					X
	1903655-11	Sample	1.27		11.54	9.07			wet sand					X
	1903655-12	Sample	1.29		13.17	9.81			↓					X
	1903655-13	Sample	1.28		9.65	7.03			↓					X
	1903655-14	Sample	1.27		12.69	9.06			Mud					X

\*Sample homogenized in sample container unless otherwise noted.

Process Sheet

Workorder: 1903655

05-Nov-19

Prep Expiration: 2020-10-09  
Client: Anchor QEA, LLC

Workorder Due: 12-Nov-19 00:00

TAT: 2821 @ 10/18/19

Method: 1668C Full List  
Matrix: Aqueous  
Client Matrix: QC Water

Prep Batch: B9J0309

Prep Data Entered: AO 11/01/19  
Date and Initials

Initial Sequence: S9K0011

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1903655-04	B <input checked="" type="checkbox"/>	PDI-FB-1910101246	15-Oct-19 08:51	WR-2 C-1	
1903655-05	↓ <input checked="" type="checkbox"/>	PDI-RB-1910101241	15-Oct-19 08:51	WR-2 C-1	

WO Comments: ~~FB 4g extraction (dry weight)~~

~~RB 4g (dry weight)~~

~~RB 5g extraction (dry weight)~~

Pre-Prep Check Out: AO 10/29/19

Prep Check Out: AZ 10/30/19

Prep Reconciled Initials/Date: AO 10/29/19

Pre-Prep Check In: AO 10/29/19

Prep Check In: NA

Spike Reconciled Initials/Date: AZ 10/29/19

VialBoxID: Slam Dunk

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 1668C Full List

Method: 1668C Full List (All Congener OPR)

B9J0309

Chemist: AO

Prep Date/Time: 29-Oct-19

Prepared using: HRMS - Separatory Funnel

VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	PS CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
B9J0309-BLK1	NA	NA	(1.00)	AO AZ 10/24/19	AZ TL 10/30/19	NA	AZ 10/30/19	NA	NA	AO 11/01/19
B9J0309-BS1	I	I	(1.00)	I						I
1903655-04	1518.22	507.83	1.01039	I						I
1903655-05	1507.16	501.89	1.00527	I						I
1903665-01	1448.97	507.43	0.94154	I						I
1903665-02 (7)	1499.66	501.84	0.99782	I						I
1903665-03 (7)	1499.96	503.02	0.99694	I						I
1903665-04 (7)	1462.24	507.62	0.95462	I						I

(7) AZ 10/30/19

IS Name <u>V4</u>	NS Name <u>V5</u>	CRS Name <u>V4</u>	RS Name <u>V3</u>	Cycle Time	APP: <u>SEFUN</u> SOX SDS	Check Out: Chemist/Date: <u>AO 10/29/19</u>
PCDD/F	PCDD/F	PCDD/F	PCDD/F	Start Date/Time: <u>NA</u>	SOLV: <u>DCM</u>	Check In: Chemist/Date: <u>NA</u>
PCB <u>19D1001, 10mL</u>	PCB <u>19D1002, 10mL</u>	PCB <u>19D1003, 10mL</u>	PCB <u>19D1004, 10mL</u>	Stop Date/Time: <u>NA</u>	Other: <u>NA</u>	Balance ID: <u>HRMS-10</u>
PAH	PAH	PAH	PAH		Final Volume(s) <u>C9 20mL</u>	

Comments: Assume 1 g = 1 mL

- 1 = Sample approached dryness on rotovap
- 2 = Sample bumped on rotovap; lost < 5%
- 3 = Sample poured through Na2SO4 to remove water
- 4 = Precipitate present at Final Volume

- 5 = Sample Centrifuged to remove particulate
- 6 = Added boiling chips to separatory funnel
- 7 = Sample emulsed during shakeout

Batch: B9J0309

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903655-04	1.01039	/		20	29-Oct-19 05:50	ACO			QC Water	1668C Full List
1903655-05	1.00527	/		20	29-Oct-19 05:50	ACO			QC Water	1668C Full List
1903665-01	0.94154	/		20	29-Oct-19 05:50	ACO			Water	1668C Full List (All Congel
1903665-02	0.99782	/		20	29-Oct-19 05:50	ACO			Water	1668C Full List (All Congel
1903665-03	0.99694	/		20	29-Oct-19 05:50	ACO			Water	1668C Full List (All Congel
1903665-04	0.95462	/		20	29-Oct-19 05:50	ACO			Water	1668C Full List (All Congel
B9J0309-BLK1	1			20	29-Oct-19 05:50	ACO				QC
B9J0309-BS1	1			20	29-Oct-19 05:50	ACO	19D1002	10		QC

All bolded data on report verified against written benchsheet by (initial/date) AO 11/01/19



Process Sheet

Workorder: 1903655

05-Nov-19

Prep Expiration: 2020-10-09  
Client: Anchor QEA, LLC

Workorder Due: 12-Nov-19 00:00

TAT: 2821 (A) 10/18/19

Method: 1613 Full List  
Matrix: Aqueous  
Client Matrix: QC Water

Prep Batch: B9J02S1

Prep Data Entered: JK 10/23/19  
Date and Initials

Initial Sequence: B9J0071

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1903655-04	<input checked="" type="checkbox"/>	PDI-FB-1910101246	15-Oct-19 08:51	WR-2 C-1	
1903655-05	<input checked="" type="checkbox"/>	PDI-RB-1910101241	15-Oct-19 08:51	WR-2 C-1	

No part BA 10/18/19

WO Comments: ~~Reconciled extraction (dry weight)~~  
~~Dimin 40g (dry weight)~~  
~~PCR 5g extraction (dry weight)~~

Pre-Prep Check Out: NA  
Pre-Prep Check In: NA

Prep Check Out: JK 10/23/19  
Prep Check In: NA

Prep Reconciled Initials/Date: JK 10/23/19  
Spike Reconciled Initials/Date: AJ 10/23/19  
VialBoxID: no potato

PREPARATION BENCH SHEET

B9J0251

Matrix: Aqueous

Method: 1613 Full List

Method: 1613 2.3.7.8-TCDD Only

Chemist: KL

Prep Date/Time: 23-Oct-19

Prepared using: HRMS - Separatory Funnel

VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
B9J0251-BLK1	NA	NA	(1.00)	KL AE 10/13/19	DF BOB 10/24/19	NA	DF 10/24/19	DF 10/24/19	DF 10/24/19	KL HN 10/25/19
B9J0251-BS1	NA	NA	(1.00)	T	T	T	T	T	T	T
1903259-01RE1	1345.64	404.49	0.94115	T	T	T	T	T	T	T
1903259-02RE1 (A)	1330.09	401.57	0.92852	T	T	T	T	T	T	NA
1903259-03RE1	1339.93	404.61	0.93532	T	T	T	T	T	T	KL HN 10/25/19
1903419-01RE1	1526.71	503.57	1.02314	T	T	T	T	T	T	T
1903568-01	1350.50	393.15	0.95735	T	T	T	T	T	NA	T
1903569-01	1541.21	502.04	1.03917	T	T	T	T	T	T	T
1903569-02	1552.43	502.14	1.05029	T	T	T	T	T	T	T
1903655-04	1539.73	505.76	1.03397 ✓	T	T	T	T	T	DF 10/24/19	T
1903655-05	1508.50	507.68	1.00082 ✓	T	T	T	T	T	T	T

(A) Rotovap malfunction, sample drop into water bath DF 10/24/19  
\* loss of sample was lost

IS Name <u>V3</u>	NS Name <u>V1</u>	CRS Name <u>V7</u>	RS Name <u>V7</u>	Cycle Time	APP: <u>SEFUM</u> SOX SDS	Check Out: Chemist/Date: <u>KL 10/13/19</u>
PCDD/F <u>19C1602, 10µL</u>	PCDD/F <u>18F1913, 10µL</u>	PCDD/F <u>19I1602, 10µL</u>	PCDD/F <u>19I1603, 10µL</u>	Start Date/Time: <u>NA</u>	SOLV: <u>DCM</u>	Check In: Chemist/Date: <u>NA</u>
PCB	PCB	PCB	PCB	Stop Date/Time: <u>NA</u>	Other <u>NA</u>	Balance ID: <u>HRMS-10</u>
PAH	PAH	PAH	PAH		Final Volume(s) <u>C14</u> <u>20µL</u>	

\* DF 10/24/19

Comments: Assume 1 g = 1 mL

- 1 = Sample approached dryness on rotovap
- 2 = Sample bumped on rotovap; lost < 5%
- 3 = Sample poured through Na2SO4 to remove water
- 4 = Precipitate present at Final Volume

- 5 = Sample Centrifuged to remove particulate
- 6 = Added boiling chips to separatory funnel
- 7 = Sample emulsed during shakeout



Batch: B9J0251

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903259-01RE1	0.94115 ✓			20	23-Oct-19 07:01	JJC			Aqueous	1613 Full List
1903259-02RE1	0.92852 ✓			20	23-Oct-19 07:01	JJC			Aqueous	1613 Full List
1903259-03RE1	0.93532 ✓			20	23-Oct-19 07:01	JJC			Aqueous	1613 Full List
1903419-01RE1	1.02314 ✓			20	23-Oct-19 07:01	JJC			Aqueous	1613 Full List
1903568-01	0.95735 ✓			20	23-Oct-19 07:01	JJC			Drinking Water	1613 2,3,7,8-TCDD Only
1903569-01	1.03917 ✓			20	23-Oct-19 07:01	JJC			Wastewater	1613 2,3,7,8-TCDD Only
1903569-02	1.05029 ✓			20	23-Oct-19 07:01	JJC			Surface Water	1613 2,3,7,8-TCDD Only
1903655-04	1.03397 ✓			20	23-Oct-19 07:01	JJC			QC Water	1613 Full List
1903655-05	1.00082 ✓			20	23-Oct-19 07:01	JJC			QC Water	1613 Full List
B9J0251-BLK1	1			20	23-Oct-19 07:01	JJC				QC
B9J0251-BS1	1			20	23-Oct-19 07:01	JJC	18F1913 ✓	10 ✓		QC

All bolded data on report verified against written benchsheet by (initial/date) MA 10/25/19



Analyst: <u>AD</u>	Test Code: %Moist/%Solids	Data Entry Verified by: (Initial and Date) <u>NA</u>
Analyte:	Units: %	
Oven ID: <u>01</u> <u>02</u>	Dried at 110°C +/- 5°C	

Inst HRMS-10      Date/Time IN: 10/29/19      Date/Time OUT: 11/01/19

B		C	D	E		F	G	H	I	K	L	M	N	O	P
Particle Size	SampID	SampType	Initial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*	
			Pan Tare Wt. (gms)												
	B9J0308-BLK1		Blank	1.27	24.08	1.27				Clear	0	5	2	5	X
	1903655-04	B	Sample	1.27	15.99	1.27				↓	0	5	2	5	X
	1903655-05	↓	Sample	1.26	14.64	1.27				↓	0	5	2	5	X
	1903665-01	A	Sample	1.26	15.96	1.26			NA	↓	0	5	2	5	X
	1903665-02	T	Sample	1.27	22.04	1.27				↓	0	5	2	5	X
	1903665-03	↓	Sample	1.29	17.69	1.29				↓	0	5	2	5	X
	1903665-04	↓	Sample	1.28	18.79	1.28				↓	0	5	2	5	X
	BS										0	5	2	5	

\*Sample homogenized in sample container unless otherwise noted.

Process Sheet  
Workorder: 1903655

Rx1  
HC 11.8.19

Prep Expiration: 2020-10-09  
Client: Anchor QEA, LLC

Workorder Due: 12-Nov-19 00:00

TAT: 28

Method: 1668C Full List  
Matrix: Solid  
Client Matrix: Sediment  
Also run: Percent Solids

Prep Batch: B9K0090

Prep Data Entered: AO 11/12/19  
Date and Initials

Initial Sequence: S9K0036

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
<del>1903655-01</del>	<input type="checkbox"/>	<del>PDI-032SC-A-00-01-191010</del>	<del>15-Oct-19 08:51</del>	<del>WR-2 A-1</del>	
1903655-06 <i>A</i>	<input checked="" type="checkbox"/>	PDI-035SC-A-00-01-191010	15-Oct-19 08:51	WR-2 A-1	

WO Comments: ~~Pest - 1g extraction (dry weight)~~

~~Dioxin - 10g (dry weight)~~

PCB - 5g extraction (dry weight) *1g, 2x spike*

*HC 11.8.19*

Pre-Prep Check Out: NA  
Pre-Prep Check In: NA

Prep Check Out: TL 11/11/19  
Prep Check In: TL 11/11/19

Prep Reconciled Initials/Date: TL 11/11/19  
Spike Reconciled Initials/Date: AO 11/11/19  
VialBoxID: Mashed Potatoes

PREPARATION BENCH SHEET

Matrix: Solid

Method: 1668C Full List

B9K0090

Chemist: TL

Prep Date/Time: 11-Nov-19 09:13

Prepared using: HRMS - Soxhlet

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	PS CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisol CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B9K0090-BLK1	NA	(1.00)	TL 11/11/19	AO AZ 11/12/19	NA	AO AZ 11/12/19	NA	NA	AO AZ 11/12/19
<input type="checkbox"/>	B9K0090-BS1	NA	(1.00)	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903588-14RE2	1.86	1.88	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903588-18RE2	1.08	1.12	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903655-06RE1	1.59	1.61	↓	↓	↓	↓	↓	↓	↓

(A) PPT formed after rotovapping AO 11/12/19  
 (B) Column had a lot of color AO 11/12/19

IS Name	NS Name	PS CRS Name	RS Name	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: TL 11/11/19
PCDD/F	PCDD/F	PCDD/F	PCDD/F	Start Date/Time 11/11/19 13:37	SOLV: Toluene	Check In: TL 11/11/19
PCB 19B2601 20uL	PCB 19B2602 20uL	PCB 19B2603 20uL	PCB 19B2604 20uL	Stop Date/Time 11/12/19 545	Other: NA	Balance ID: HRMS-8
PAH	PAH	PAH	PAH	Final Volume(s) 4	100uL	

Comments:  
 1 = Sample approached dryness on rotovap  
 2 = Sample bumped on rotovap; lost < 5%  
 3 = Sample poured through Na2SO4 to remove water  
 4 = Precipitate present at Final Volume  
 5 = Sample homogenized in secondary container  
 6 = Sample clogged during extraction; pipetted and used Nitrogen to assist

Batch: B9K0090

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903588-14RE2	1.88	53.88471	1.0130	100	11-Nov-19 09:12	TL			Soil	1668C Full List
1903588-18RE2	1.12	92.59259	1.0370	100	11-Nov-19 09:12	TL			Soil	1668C Full List
1903655-06RE1	1.61	62.88783	1.0125	100	11-Nov-19 09:12	TL			Sediment	1668C Full List
B9K0090-BLK1	1			100	11-Nov-19 09:12	TL				QC
B9K0090-BS1	1			100	11-Nov-19 09:12	TL	19B2602	20		QC

All bolded data on report verified against written benchsheet by (initial/date) AO 11/12/19

Printed: 11/12/2019 10:37:12AM  
Page 1 of 1

Process Sheet  
**Workorder: 1903655**

05-Nov-19

Prep Expiration: 2020-10-09  
 Client: Anchor QEA, LLC

**Workorder Due: 12-Nov-19 00:00**

TAT: 2821 @ 10/18/19

Method: **1668C Full List**  
 Matrix: **Solid**  
 Client Matrix: Sediment  
 Also run: **Percent Solids**

Prep Batch: 89K0010

Prep Data Entered: HL 11/06/19  
Date and Initials

Initial Sequence: 59K0012

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1903655-01	<input checked="" type="checkbox"/>	PDI-032SC-A-00-01-191010	15-Oct-19 08:51	WR-2 A-1	
1903655-06	<input checked="" type="checkbox"/>	PDI-035SC-A-00-01-191010	15-Oct-19 08:51	WR-2 A-1	

WO Comments: ~~PCB - 5g extraction (dry weight)~~  
~~PCB - 4g (dry weight)~~  
**PCB - 5g extraction (dry weight)**

Pre-Prep Check Out: AO 11/04/19      Prep Check Out: NA  
 Pre-Prep Check In: AO 11/04/19      Prep Check In: NA

Prep Reconciled Initials/Date: AO 11/04/19  
 Spike Reconciled Initials/Date: HL 11/04/19  
 VialBoxID: Glam dunk

PREPARATION BENCH SHEET

Matrix: Solid

B9K0010

Chemist: AO

Method: 1668C Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 04-Nov-19 07:36

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B9K0010-BLK1	NA	(5.00)	AO 11/04/19	AO 11/05/19	NA	AO 11/05/19	NA	NA	AO 11/05/19
<input type="checkbox"/>	B9K0010-BS1	↓	(5.00)	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903655-01 (2)	6.11	6.12	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903655-06	7.95	8.12	↓	↓	↓	↓	↓	↓	↓

(2) AO 11/05/19

IS Name <u>V3</u>	NS Name <u>V3</u>	CRS Name <u>V3</u>	RS Name <u>V1</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: <u>11/04/19 AO</u>
PCDD/F	PCDD/F	PCDD/F	PCDD/F	Start Date/Time <u>11/04/19 1330</u>	SOLV: <u>Toluene</u>	Chemist/Date: <u>11/04/19 AO</u>
PCB <u>19B2601, 10µL</u>	PCB <u>19B2602, 10µL</u>	PCB <u>19B2603, 10µL</u>	PCB <u>19B2604, 10µL</u>	Other <u>NA</u>	Final Volume(s) <u>C9</u>	Check In: <u>11/04/19 AO</u>
PAH	PAH	PAH	PAH	Stop Date/Time <u>11/05/19 1100</u>	<u>100µL</u>	Chemist/Date: <u>11/04/19 AO</u>
						Balance ID: <u>HRMS-8</u>

Comments:

- 1 = Sample approached dryness on rotovap
- 2 = Sample bumped on rotovap; lost < 5%
- 3 = Sample poured through Na2SO4 to remove water
- 4 = Precipitate present at Final Volume
- 5 = Sample homogenized in secondary container
- 6 = Sample clogged during extraction; pipetted and used Nitrogen to assist



Batch: B9K0010

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903655-01	6.12 ✓	81.86813	5.0103	100	04-Nov-19 07:36	ACO			Sediment	1668C Full List
1903655-06	8.12 ✓	62.88783	5.1065	100	04-Nov-19 07:36	ACO			Sediment	1668C Full List
B9K0010-BLK1	5			100	04-Nov-19 07:36	ACO				QC
B9K0010-BS1	5			100	04-Nov-19 07:36	ACO	19B2602 ✓	10 ✓		QC

All bolded data on report verified against written benchsheet by (initial/date)     *z* 11/26/19

SAMPLE DATA – EPA METHOD 1613

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-4.qld

Last Altered: Wednesday, December 18, 2019 18:01:46 Pacific Standard Time

Printed: Friday, December 20, 2019 12:12:07 Pacific Standard Time

HC 12-20-19

Q7 12/27/19

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2\_4, Date: 17-Dec-2019, Time: 16:16:19, ID: B9J0322-BLK1 Method Blank 10, Description: Method Blank

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
1	1 2,3,7,8-TCDD		6.18e5	10.0000				1.001		26.18					0.117
2	2 1,2,3,7,8-PeCDD		4.77e5	10.0000				1.001		31.31					0.0712
3	3 1,2,3,4,7,8-HxCDD		3.14e5	10.0000				1.000		34.65					0.0889
4	4 1,2,3,6,7,8-HxCDD		3.74e5	10.0000				1.000		34.75					0.0866
5	5 1,2,3,7,8,9-HxCDD		3.49e5	10.0000				1.001		35.06					0.0978
6	6 1,2,3,4,6,7,8-HpCDD		2.92e5	10.0000				1.000		38.53					0.124
7	7 OCDD		4.13e5	10.0000				1.000		41.77					0.172
8	8 2,3,7,8-TCDF		8.60e5	10.0000				1.001		25.20					0.0613
9	9 1,2,3,7,8-PeCDF		6.61e5	10.0000				1.001		30.00					0.0447
10	10 2,3,4,7,8-PeCDF		6.60e5	10.0000				1.001		31.00					0.0454
11	11 1,2,3,4,7,8-HxCDF		4.51e5	10.0000				1.000		33.78					0.0298
12	12 1,2,3,6,7,8-HxCDF		5.47e5	10.0000				1.000		33.91					0.0288
13	13 2,3,4,6,7,8-HxCDF		5.05e5	10.0000				1.001		34.51					0.0304
14	14 1,2,3,7,8,9-HxCDF		4.04e5	10.0000				1.000		35.35					0.0440
15	15 1,2,3,4,6,7,8-HpCDF		4.17e5	10.0000				1.001		37.14					0.0486
16	16 1,2,3,4,7,8,9-HpCDF		2.79e5	10.0000				1.000		39.13					0.0605
17	17 OCDF		5.56e5	10.0000				1.000		41.97					0.134
18	18 13C-2,3,7,8-TCDD	6.18e5	6.52e5	10.0000		0.785	NO	1.027	1.028	26.15	26.15	180.84	90.4		0.476
19	19 13C-1,2,3,7,8-PeCDD	4.77e5	6.52e5	10.0000		0.628	NO	1.230	1.230	31.29	31.29	196.92	98.5		0.300
20	20 13C-1,2,3,4,7,8-Hx...	3.14e5	6.20e5	10.0000		1.253	NO	1.014	1.014	34.64	34.64	156.88	78.4		0.689
21	21 13C-1,2,3,6,7,8-Hx...	3.74e5	6.20e5	10.0000		1.222	NO	1.017	1.017	34.74	34.75	155.37	77.7		0.573
22	22 13C-1,2,3,7,8,9-Hx...	3.49e5	6.20e5	10.0000		1.187	NO	1.025	1.025	35.01	35.02	170.71	85.4		0.675
23	23 13C-1,2,3,4,6,7,8-H...	2.92e5	6.20e5	10.0000		1.041	NO	1.127	1.128	38.51	38.52	176.24	88.1		0.682
24	24 13C-OCDD	4.13e5	6.20e5	10.0000		0.888	NO	1.223	1.223	41.79	41.77	283.06	70.8		0.894
25	25 13C-2,3,7,8-TCDF	8.60e5	9.60e5	10.0000		0.727	NO	0.989	0.989	25.16	25.17	183.30	91.7		0.566
26	26 13C-1,2,3,7,8-PeCDF	6.61e5	9.60e5	10.0000		1.510	NO	1.178	1.178	29.98	29.98	177.00	88.5		0.675
27	27 13C-2,3,4,7,8-PeCDF	6.60e5	9.60e5	10.0000		1.483	NO	1.217	1.217	30.97	30.97	183.38	91.7		0.700
28	28 13C-1,2,3,4,7,8-Hx...	4.51e5	6.20e5	10.0000		0.530	NO	0.989	0.989	33.78	33.78	172.19	86.1		0.612
29	29 13C-1,2,3,6,7,8-Hx...	5.47e5	6.20e5	10.0000		0.523	NO	0.992	0.992	33.89	33.90	171.84	85.9		0.503
30	30 13C-2,3,4,6,7,8-Hx...	5.05e5	6.20e5	10.0000		0.529	NO	1.009	1.009	34.47	34.47	182.32	91.2		0.579
31	31 13C-1,2,3,7,8,9-Hx...	4.04e5	6.20e5	10.0000		0.561	NO	1.035	1.035	35.37	35.35	177.32	88.7		0.704
32	32 13C-1,2,3,4,6,7,8-H...	4.17e5	6.20e5	10.0000		0.434	NO	1.085	1.086	37.08	37.10	178.22	89.1		0.731

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-4.qld

Last Altered: Wednesday, December 18, 2019 18:01:46 Pacific Standard Time

Printed: Friday, December 20, 2019 12:12:07 Pacific Standard Time

Name: 191217K2\_4, Date: 17-Dec-2019, Time: 16:16:19, ID: B9J0322-BLK1 Method Blank 10, Description: Method Blank

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
33	33 13C-1,2,3,4,7,8,9-H...	2.79e5	6.20e5	10.0000		0.449	NO	1.145	1.145	39.11	39.13	166.97	83.5		1.02
34	34 13C-OCDF	5.56e5	6.20e5	10.0000		0.908	NO	1.229	1.228	41.97	41.97	302.87	75.7		0.629
35	35 37Cl-2,3,7,8-TCDD	2.34e5	6.52e5	10.0000				1.028	1.028	26.17	26.17	67.245	84.1		0.0908
36	36 13C-1,2,3,4-TCDD	6.52e5	6.52e5	10.0000		0.790	NO	1.000	1.000	25.45	25.45	200.00	100.0		0.499
37	37 13C-1,2,3,4-TCDF	9.60e5	9.60e5	10.0000		0.743	NO	1.000	1.000	23.55	23.57	200.00	100.0		0.554
38	38 13C-1,2,3,4,6,9-Hx...	6.20e5	6.20e5	10.0000		0.538	NO	1.000	1.000	34.16	34.16	200.00	100.0		0.517
39	39 Total Tetra-Dioxins		6.18e5	10.0000				0.000		24.62					0.0746
40	40 Total Penta-Dioxins		4.77e5	10.0000				0.000		29.96					0.0250
41	41 Total Hexa-Dioxins		0.00e0	10.0000				0.000		33.63					0.0408
42	42 Total Hepta-Dioxins		2.92e5	10.0000				0.000		38.80					0.0682
43	43 Total Tetra-Furans		8.60e5	10.0000				0.000		23.61					0.0232
44	44 1st Func. Penta-Fur...		0.00e0	10.0000				0.000		27.04					0.0135
45	45 Total Penta-Furans		0.00e0	10.0000				0.000		29.27					0.0210
46	46 Total Hexa-Furans		0.00e0	10.0000				0.000		33.56					0.0191
47	47 Total Hepta-Furans		0.00e0	10.0000				0.000		37.83					0.0299

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-4.qld

Last Altered: Wednesday, December 18, 2019 18:01:46 Pacific Standard Time

Printed: Friday, December 20, 2019 12:12:07 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2\_4, Date: 17-Dec-2019, Time: 16:16:19, ID: B9J0322-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Hexa-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Hepta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Tetra-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Furans function 1

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-4.qld

Last Altered: Wednesday, December 18, 2019 18:01:46 Pacific Standard Time

Printed: Friday, December 20, 2019 12:12:07 Pacific Standard Time

Name: 191217K2\_4, Date: 17-Dec-2019, Time: 16:16:19, ID: B9J0322-BLK1 Method Blank 10, Description: Method Blank

Hexa-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Hepta-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Dataset: Untitled

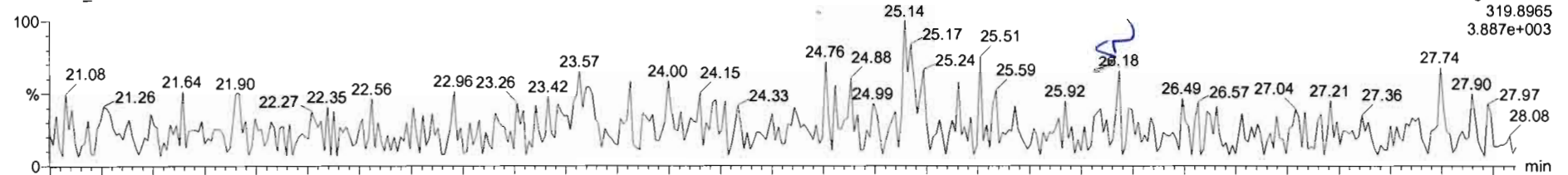
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

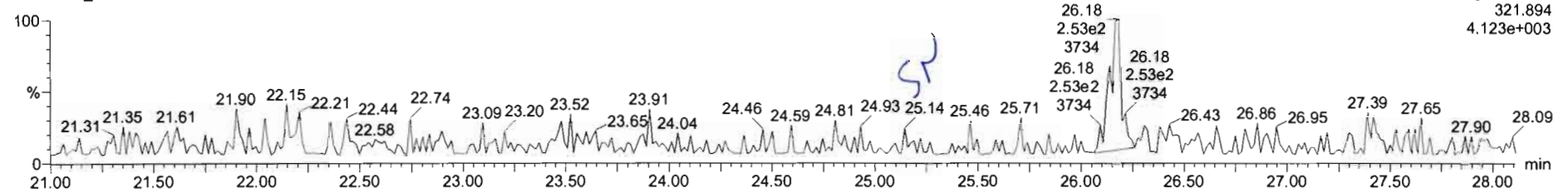
Name: 191217K2\_4, Date: 17-Dec-2019, Time: 16:16:19, ID: B9J0322-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

191217K2\_4

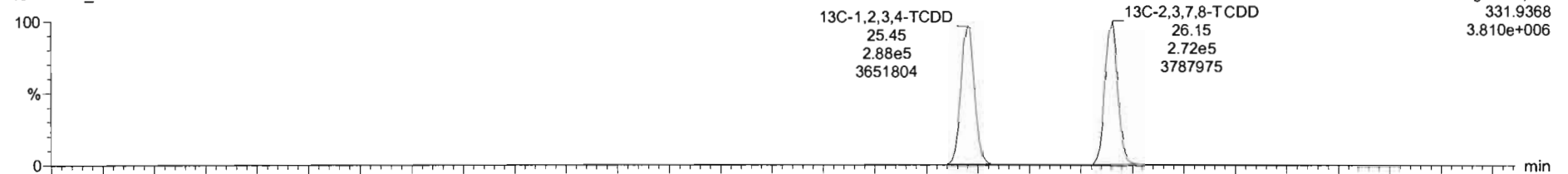


191217K2\_4

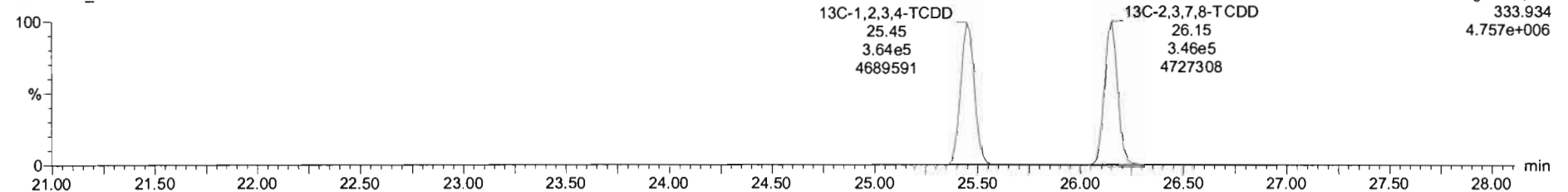


13C-2,3,7,8-TCDD

191217K2\_4



191217K2\_4



Dataset: Untitled

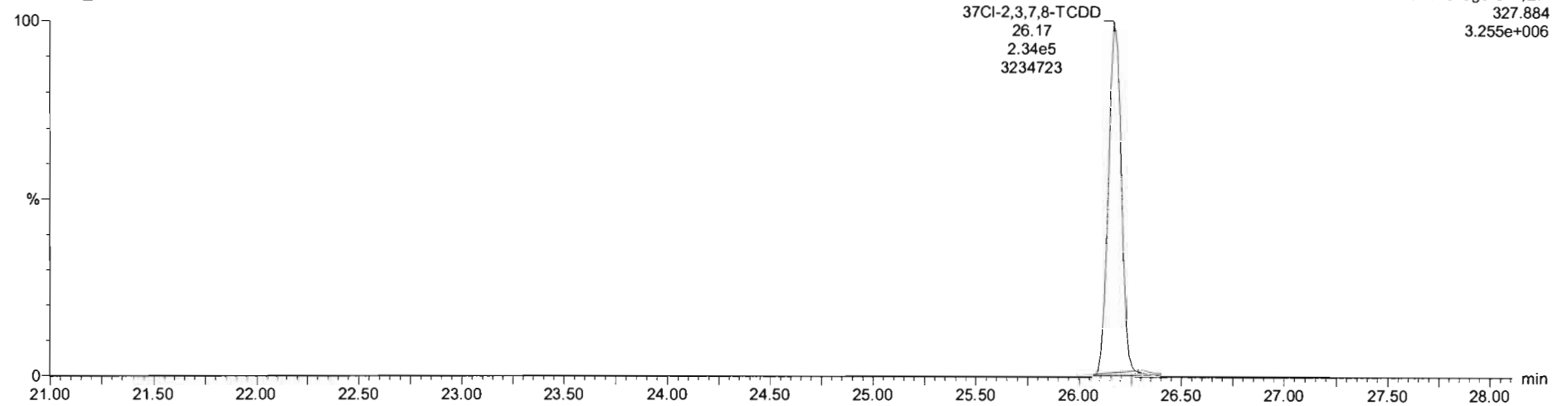
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

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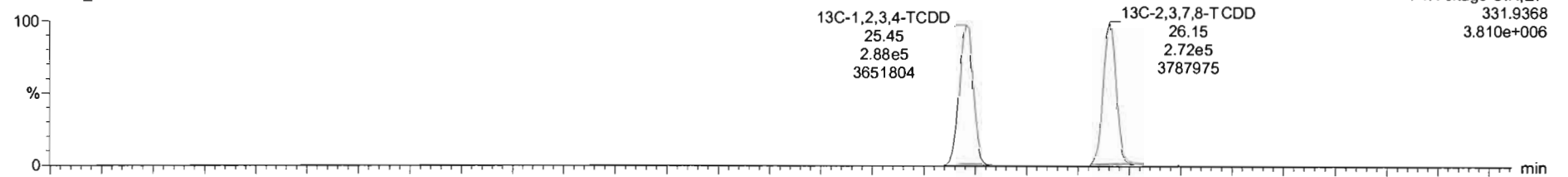
**37Cl-2,3,7,8-TCDD**

191217K2\_4

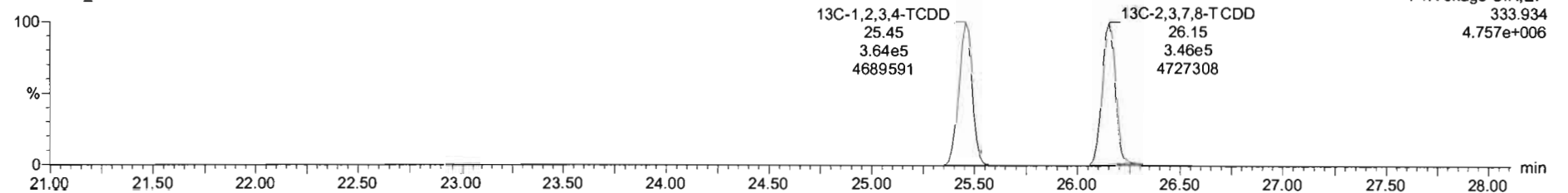


**13C-1,2,3,4-TCDD**

191217K2\_4



191217K2\_4





Dataset: Untitled

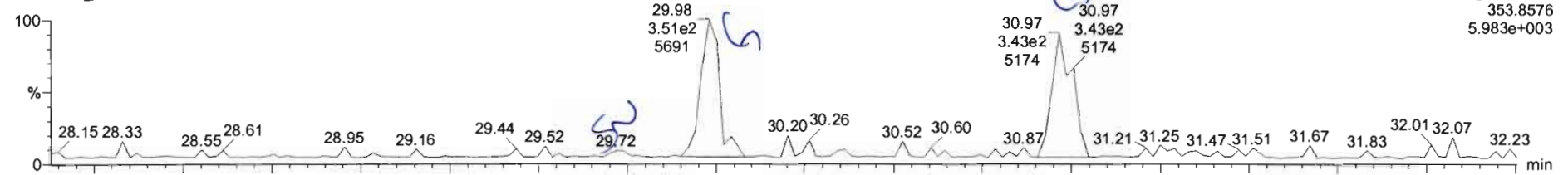
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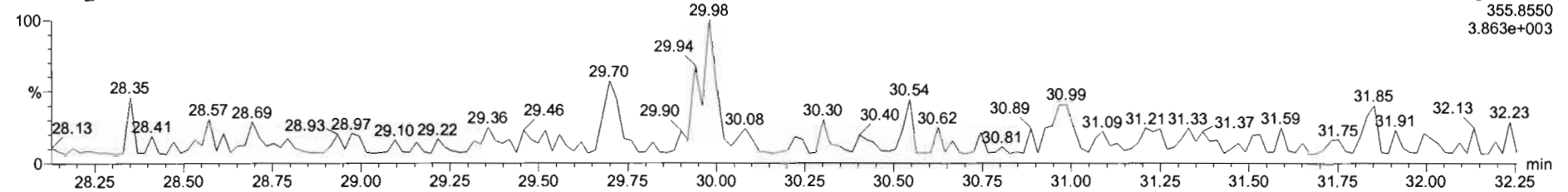
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**1,2,3,7,8-PeCDD**

191217K2\_4

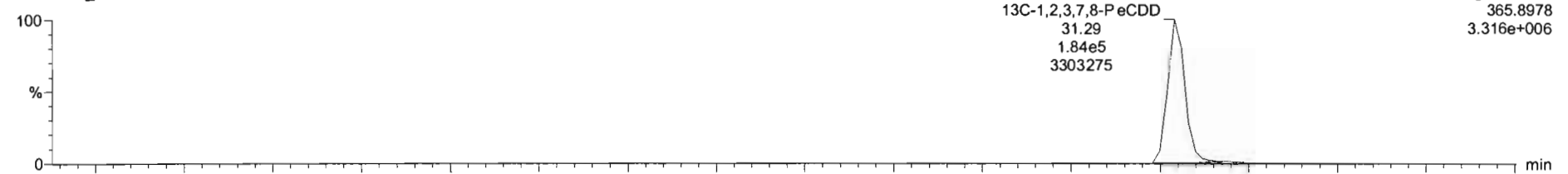


191217K2\_4

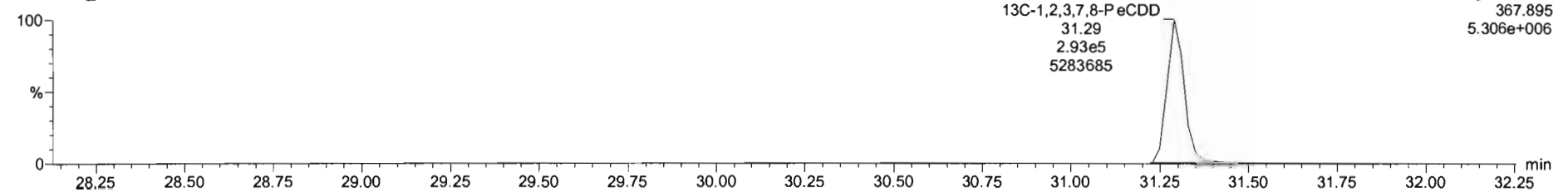


**13C-1,2,3,7,8-PeCDD**

191217K2\_4



191217K2\_4



Dataset: Untitled

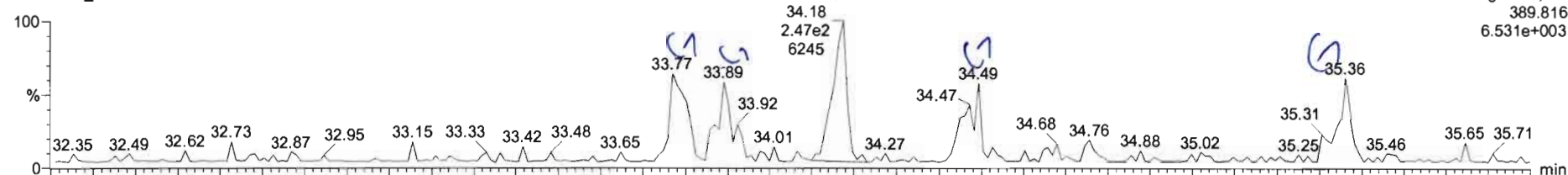
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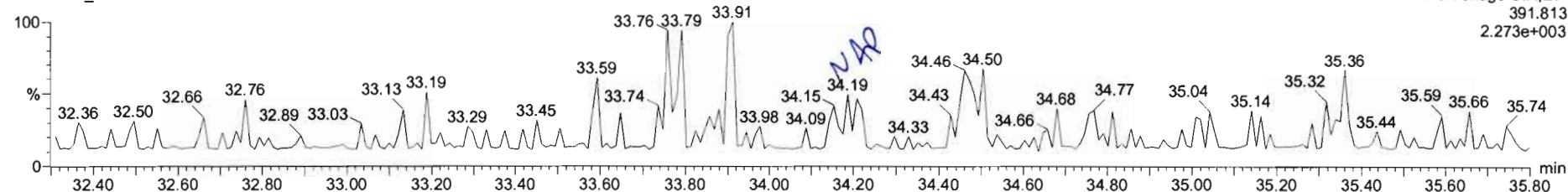
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**1,2,3,4,7,8-HxCDD**

191217K2\_4

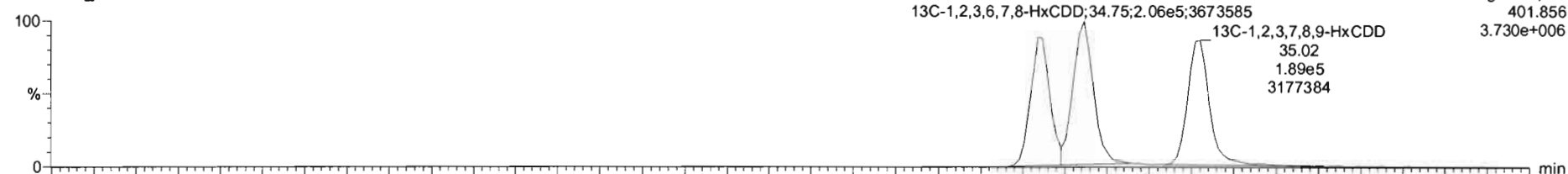


191217K2\_4

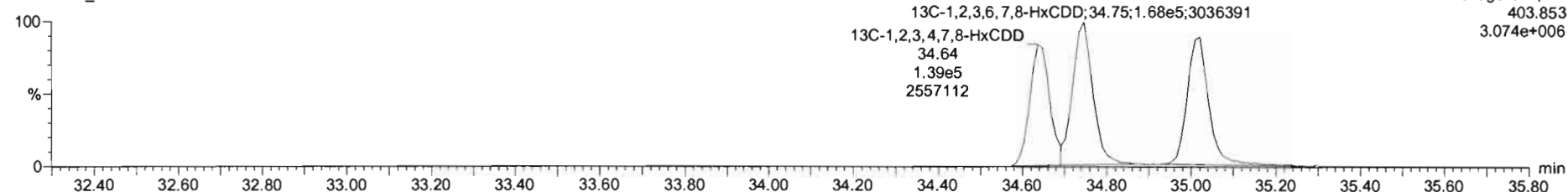


**13C-1,2,3,4,7,8-HxCDD**

191217K2\_4



191217K2\_4



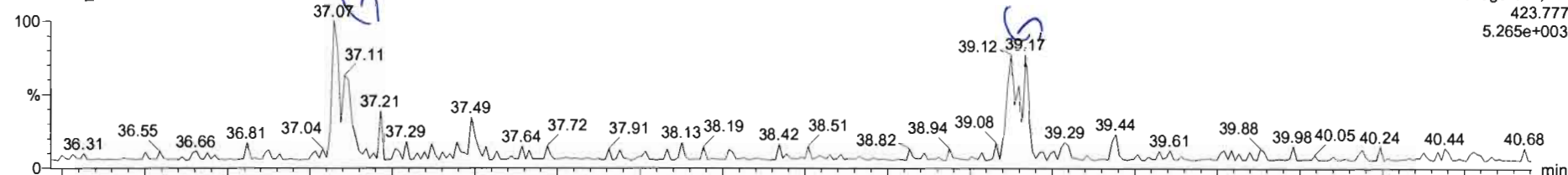
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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

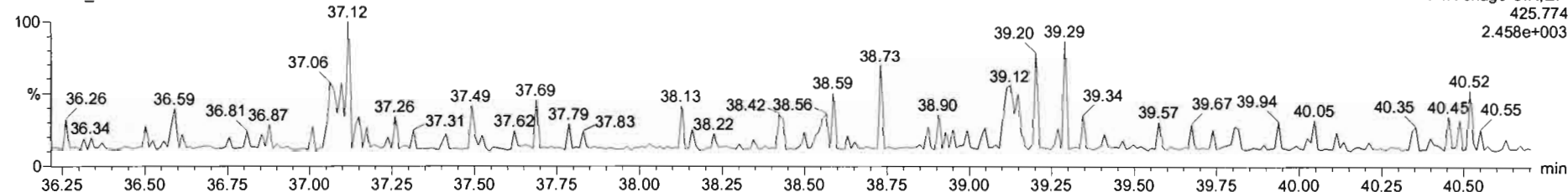
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1,2,3,4,6,7,8-HpCDD

191217K2\_4

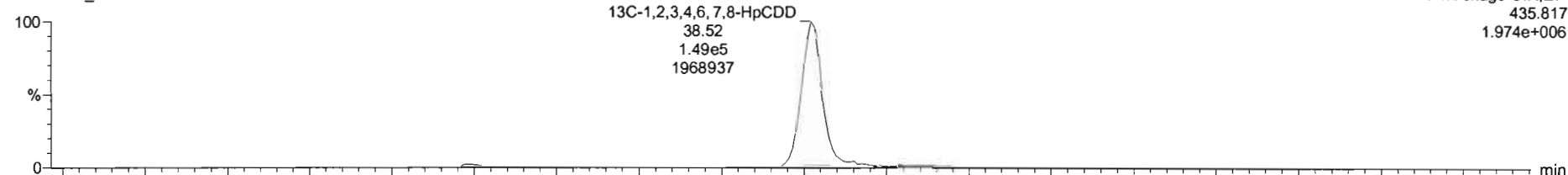


191217K2\_4

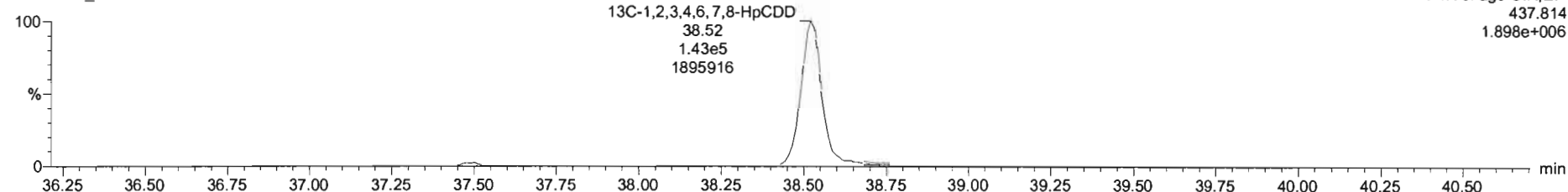


13C-1,2,3,4,6,7,8-HpCDD

191217K2\_4



191217K2\_4



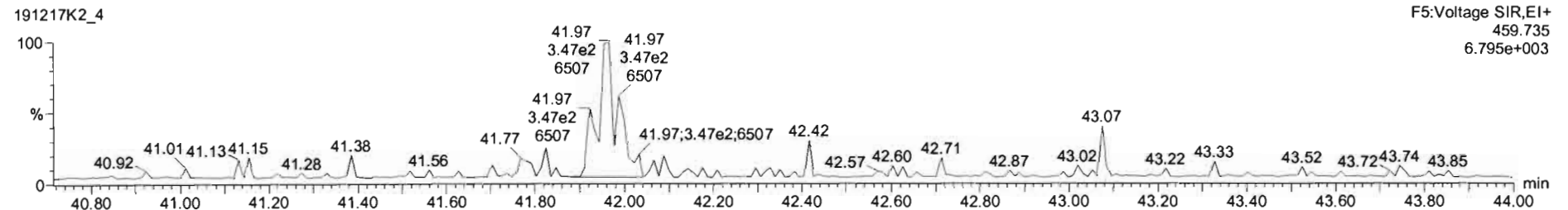
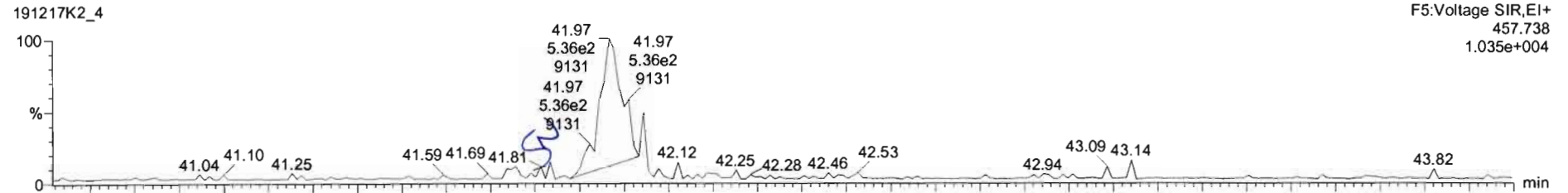
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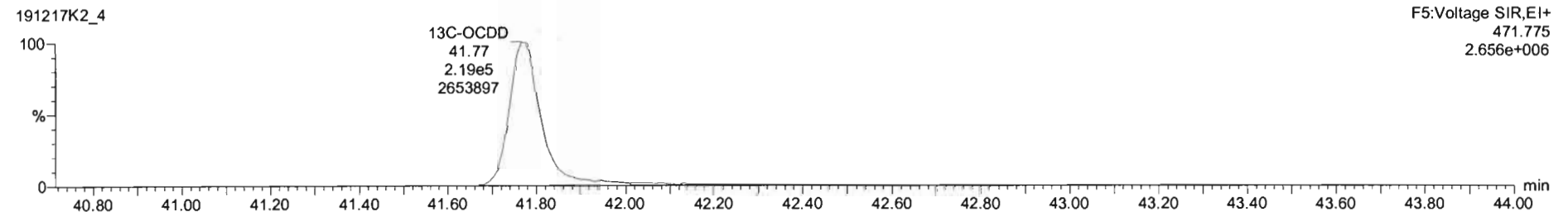
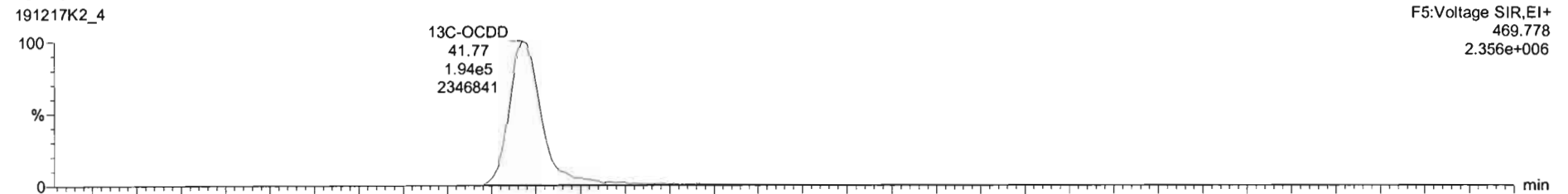
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Name: 191217K2\_4, Date: 17-Dec-2019, Time: 16:16:19, ID: B9J0322-BLK1 Method Blank 10, Description: Method Blank

OCDD



13C-OCDD

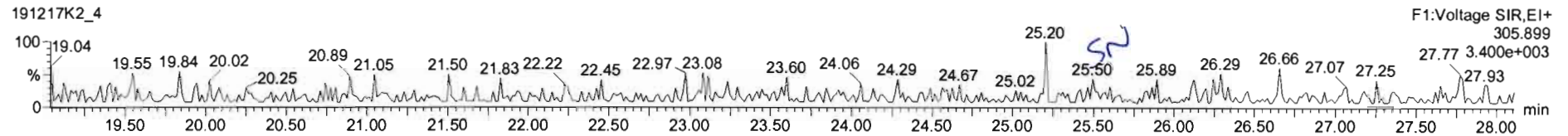
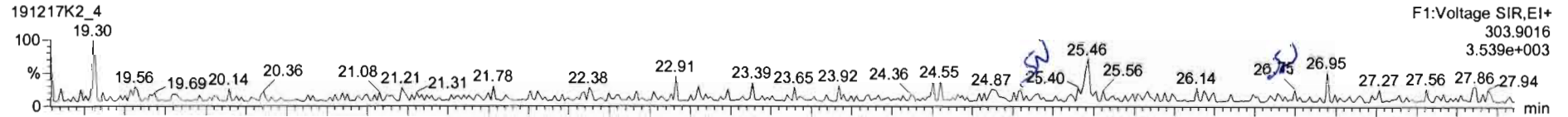


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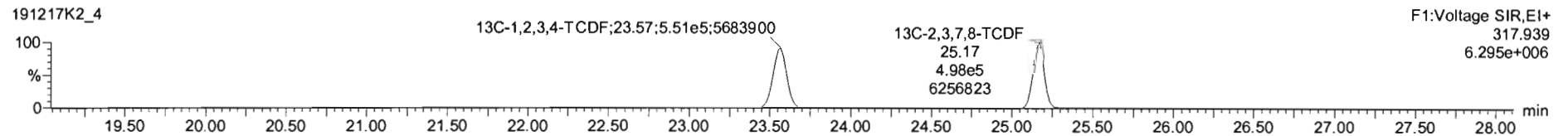
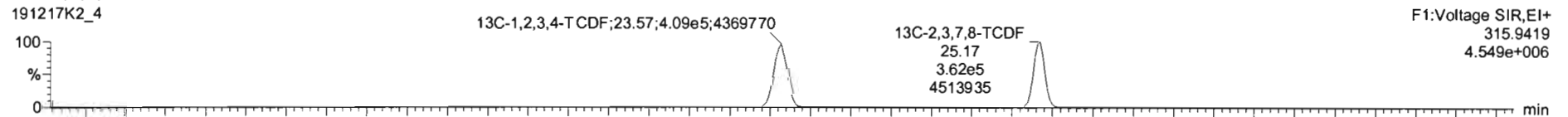
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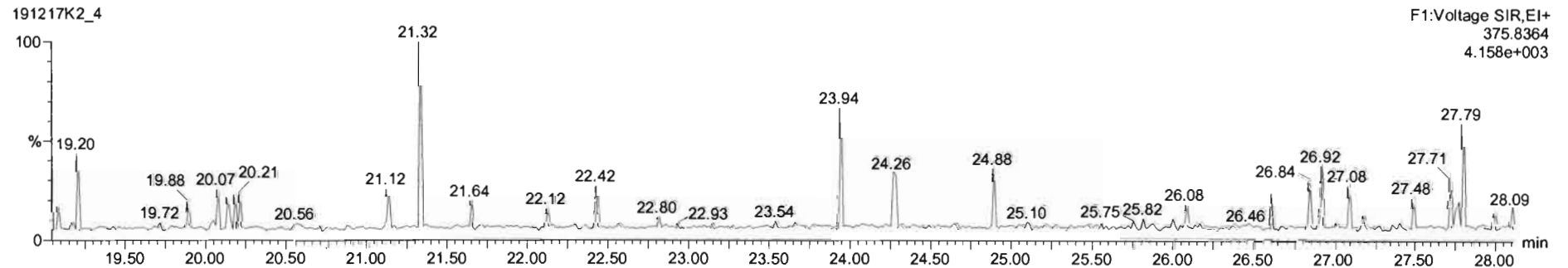
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



DPE1



Dataset: Untitled

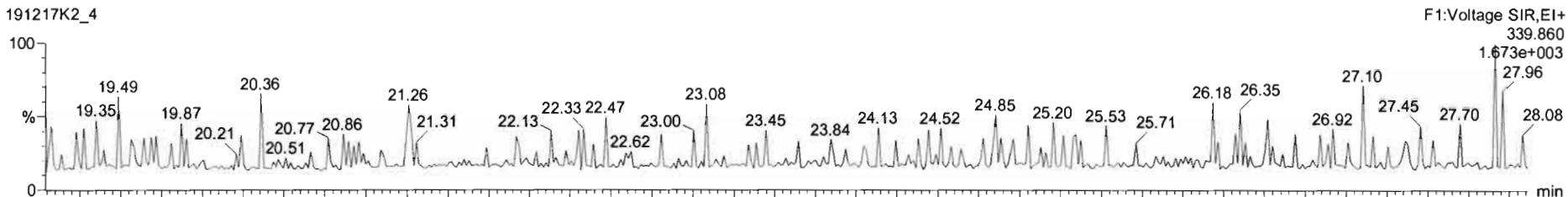
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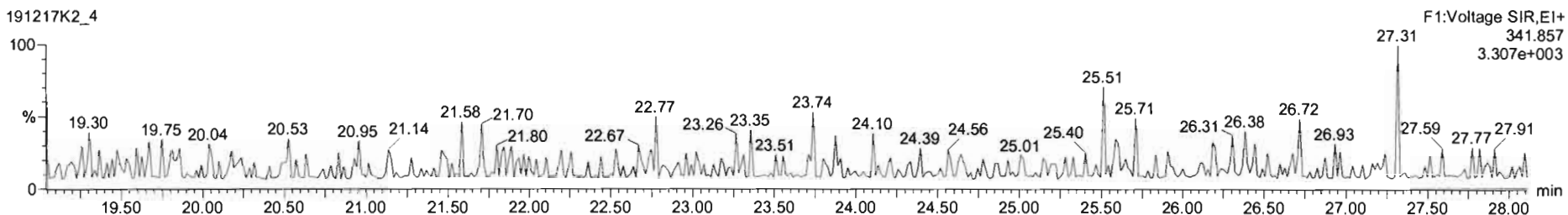
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1st Func. Penta-Furans

191217K2\_4

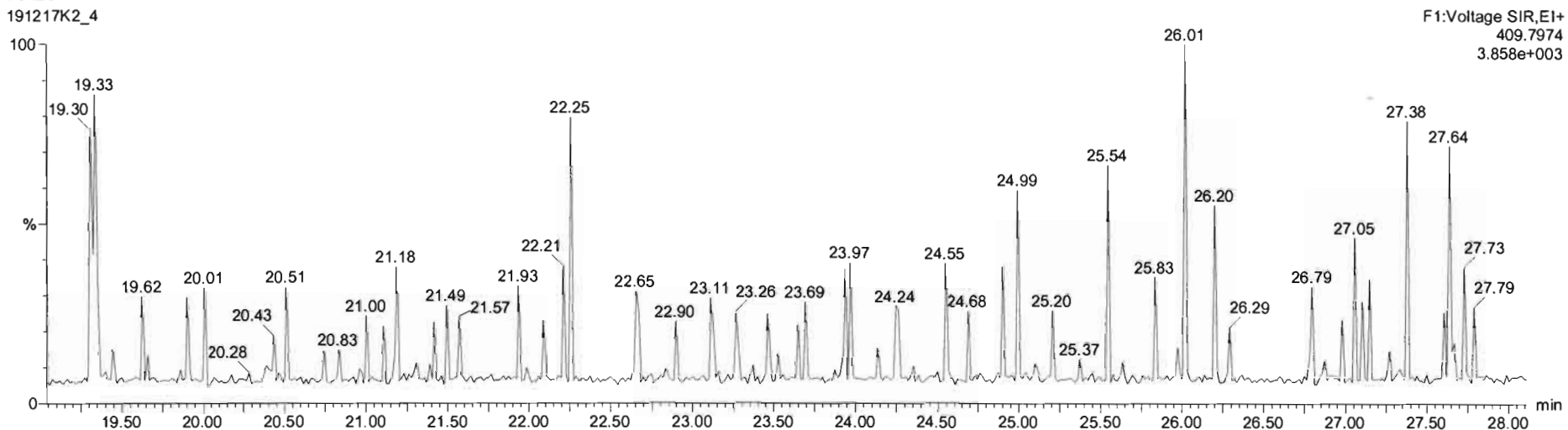


191217K2\_4



DPE6

191217K2\_4





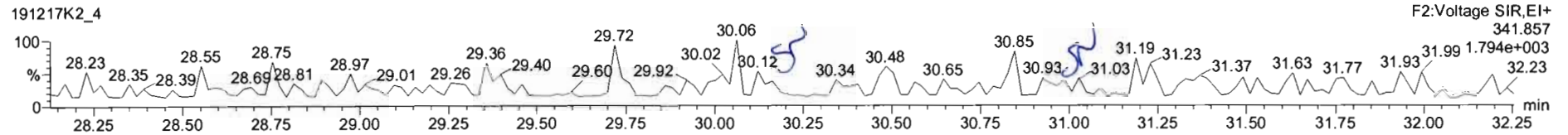
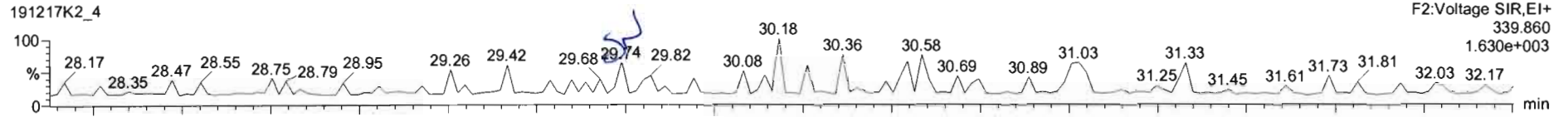
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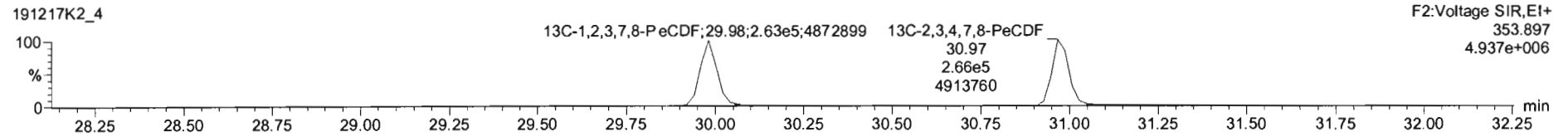
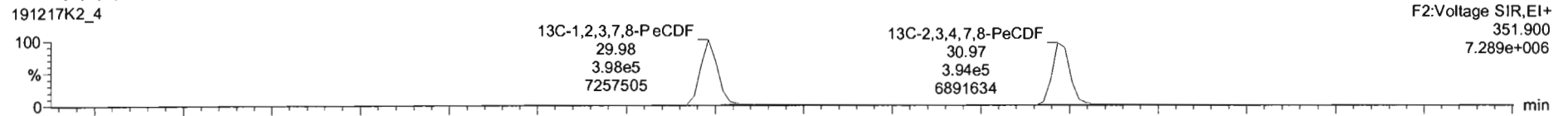
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

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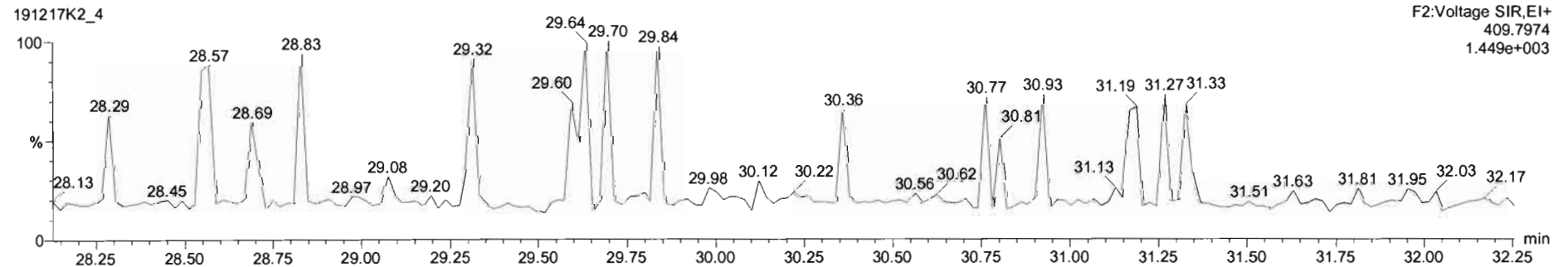
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF



DPE2



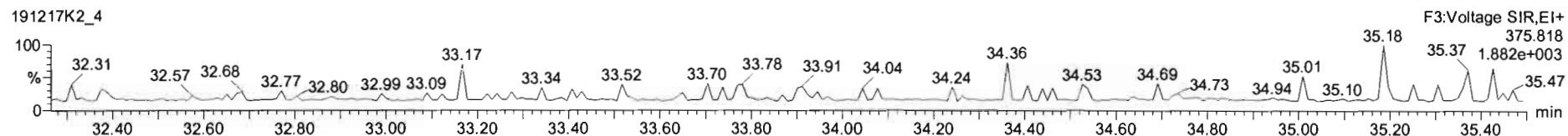
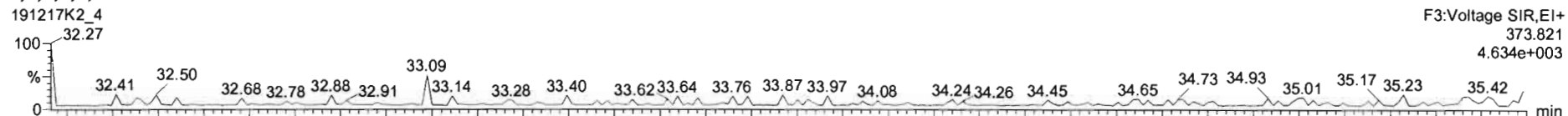
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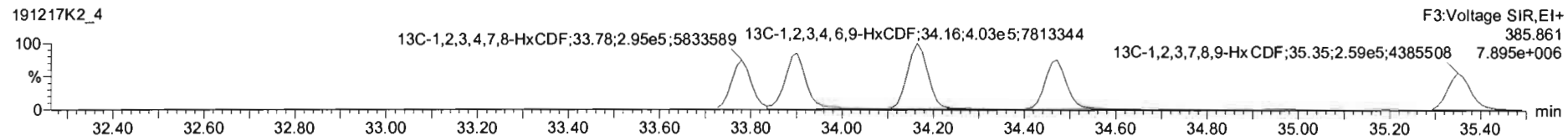
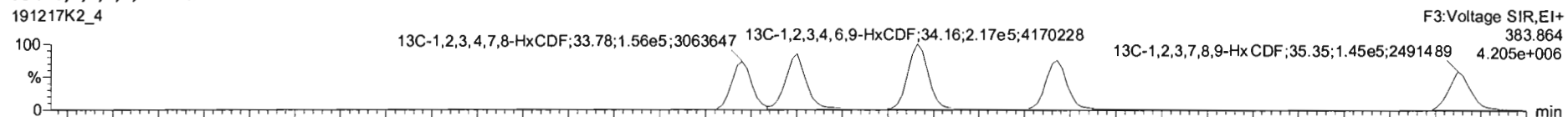
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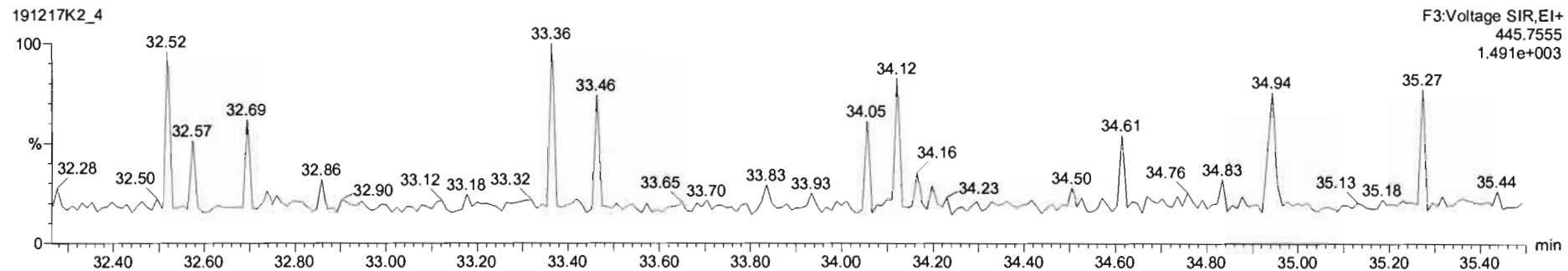
**1,2,3,4,7,8-HxCDF**



**13C-1,2,3,4,7,8-HxCDF**



**DPE3**





Dataset: Untitled

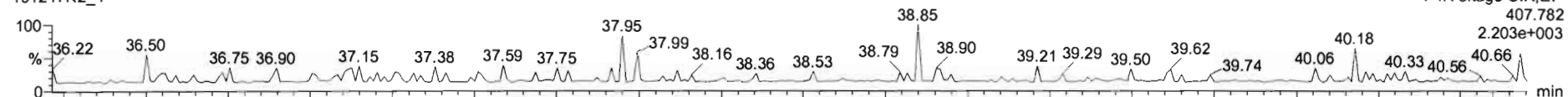
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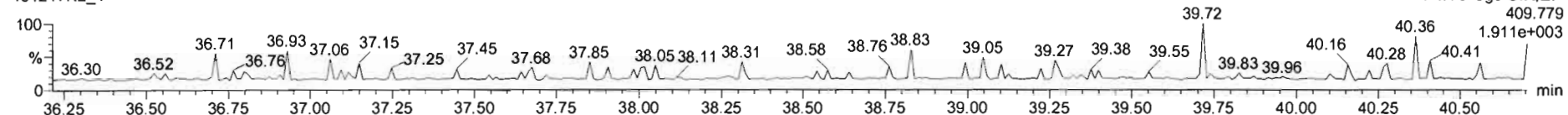
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1,2,3,4,6,7,8-HpCDF

191217K2\_4

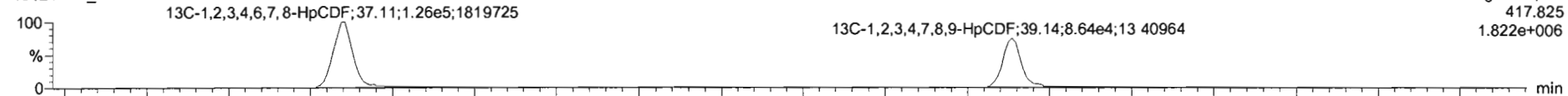


191217K2\_4

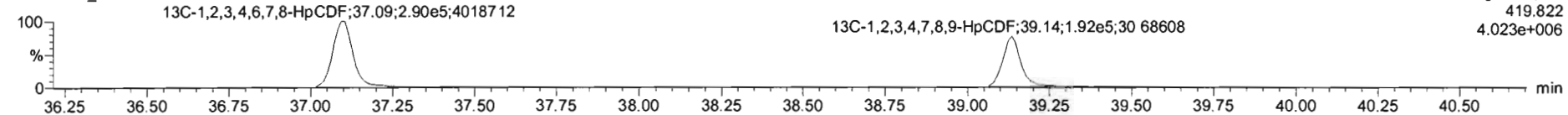


13C-1,2,3,4,6,7,8-HpCDF

191217K2\_4

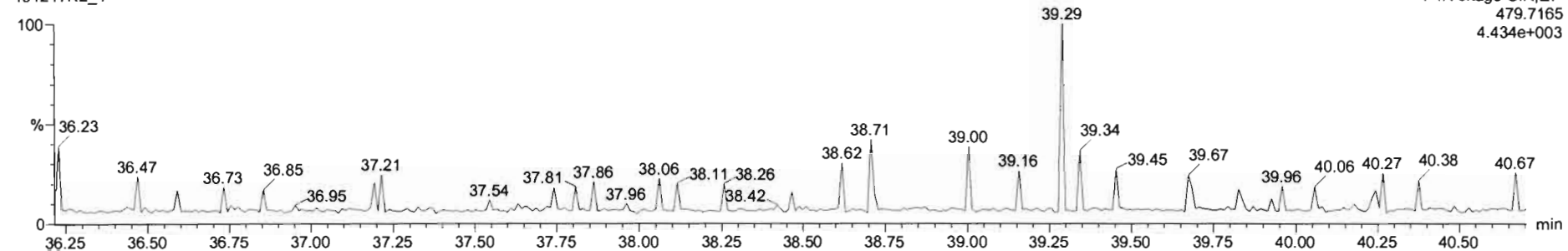


191217K2\_4



DPE4

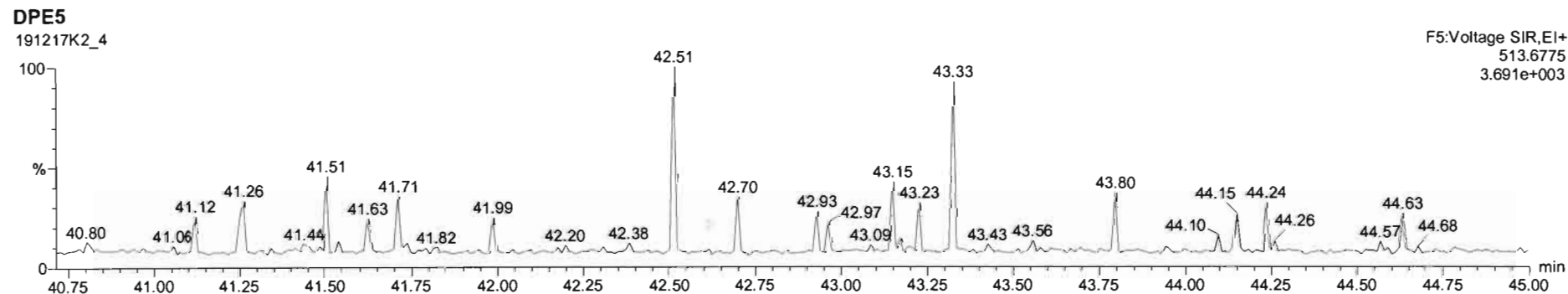
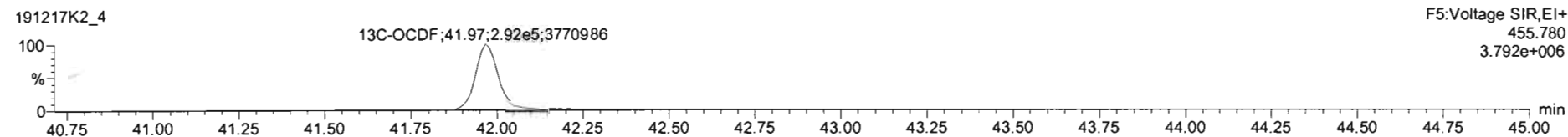
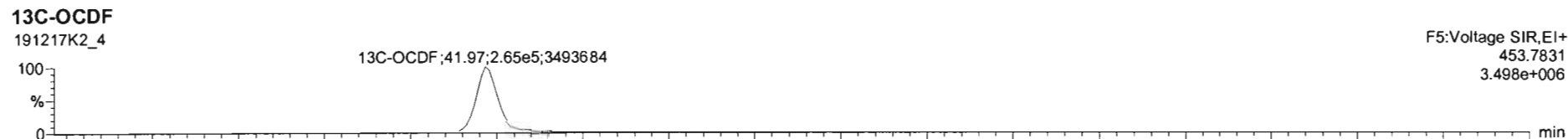
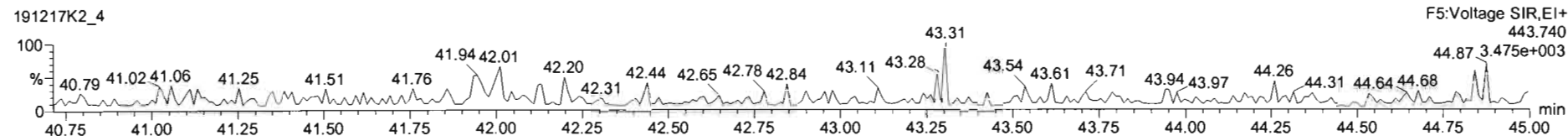
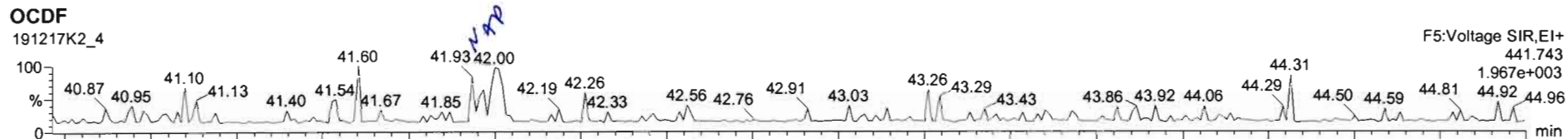
191217K2\_4



Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2\_4, Date: 17-Dec-2019, Time: 16:16:19, ID: B9J0322-BLK1 Method Blank 10, Description: Method Blank

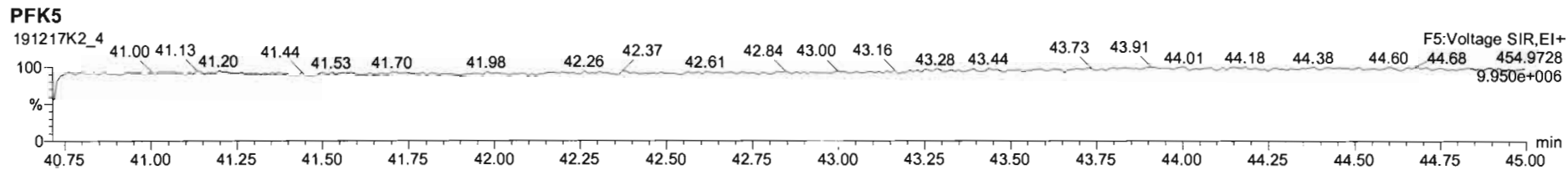
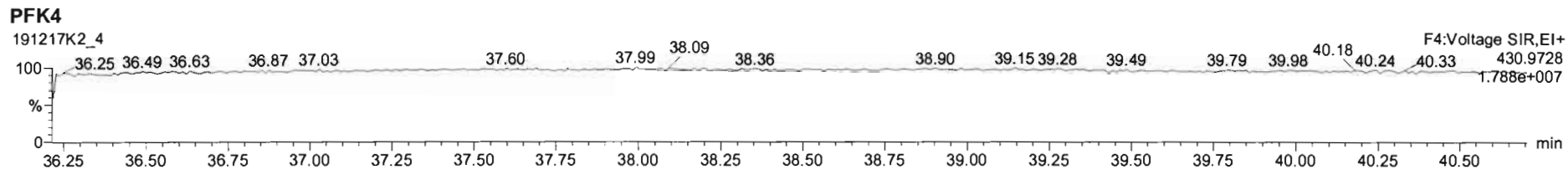
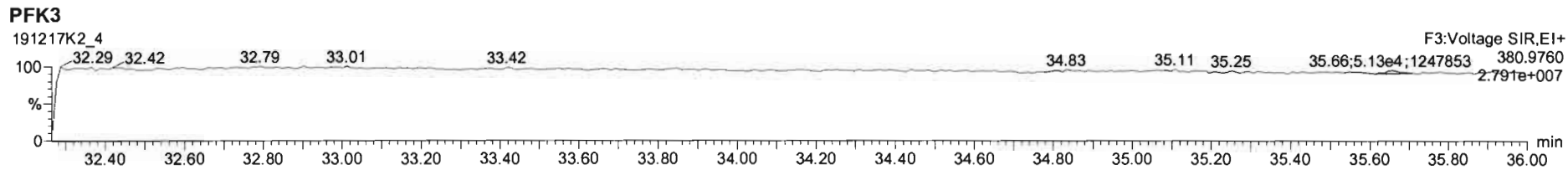
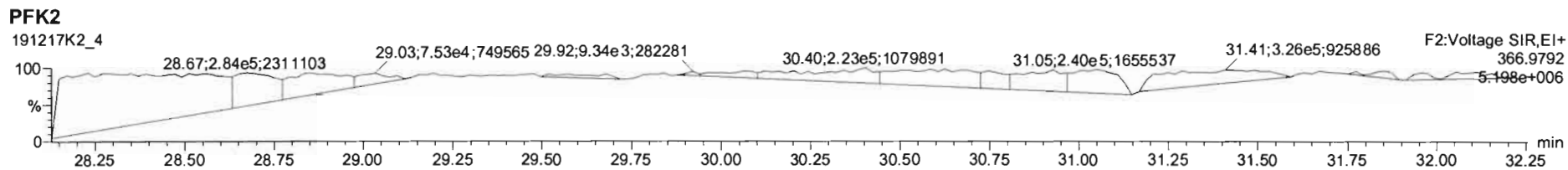
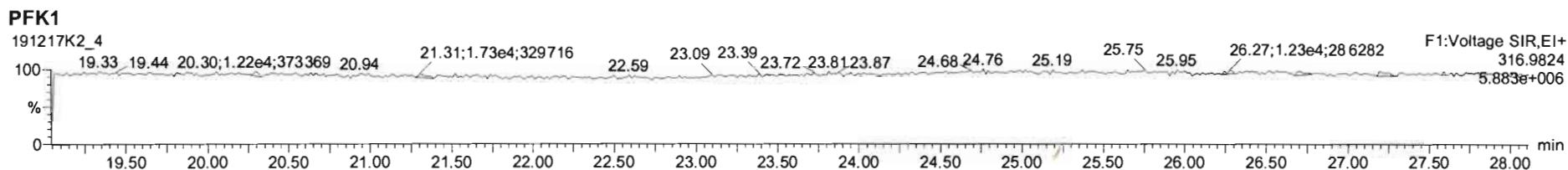


Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2\_4, Date: 17-Dec-2019, Time: 16:16:19, ID: B9J0322-BLK1 Method Blank 10, Description: Method Blank



Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-2.qld

Last Altered: Friday, December 20, 2019 12:13:02 Pacific Standard Time

Printed: Friday, December 20, 2019 12:14:03 Pacific Standard Time

*Hc 12-20-19*

*C7 12/27/19*

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2\_2, Date: 17-Dec-2019, Time: 14:39:35, ID: B9J0322-BS1 OPR 10, Description: OPR

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
1	1 2,3,7,8-TCDD	4.73e4	4.97e5	10.0000	0.805	NO	1.001	1.001	26.17	26.17	20.569	20.6	0.190		
2	2 1,2,3,7,8-PeCDD	1.67e5	3.57e5	10.0000	0.635	NO	1.001	1.001	31.31	31.31	103.84	104	0.213		
3	3 1,2,3,4,7,8-HxCDD	1.50e5	2.59e5	10.0000	1.303	NO	1.000	1.000	34.65	34.65	108.70	109	0.462		
4	4 1,2,3,6,7,8-HxCDD	1.68e5	3.07e5	10.0000	1.304	NO	1.000	1.000	34.74	34.75	113.21	113	0.465		
5	5 1,2,3,7,8,9-HxCDD	1.49e5	2.79e5	10.0000	1.290	NO	1.001	1.000	35.04	35.02	109.19	109	0.525		
6	6 1,2,3,4,6,7,8-HpCDD	1.15e5	2.19e5	10.0000	1.052	NO	1.000	1.000	38.53	38.53	100.91	101	0.521		
7	7 OCDD	1.77e5	3.40e5	10.0000	0.901	NO	1.000	1.000	41.77	41.78	214.99	215	0.663		
8	8 2,3,7,8-TCDF	7.06e4	6.79e5	10.0000	0.790	NO	1.001	1.001	25.18	25.19	22.185	22.2	0.118		
9	9 1,2,3,7,8-PeCDF	2.67e5	5.09e5	10.0000	1.607	NO	1.001	1.001	30.00	30.00	107.30	107	0.238		
10	10 2,3,4,7,8-PeCDF	2.69e5	4.84e5	10.0000	1.556	NO	1.001	1.001	31.00	30.99	110.86	111	0.212		
11	11 1,2,3,4,7,8-HxCDF	2.42e5	3.66e5	10.0000	1.244	NO	1.000	1.000	33.77	33.78	106.59	107	0.356		
12	12 1,2,3,6,7,8-HxCDF	2.66e5	4.23e5	10.0000	1.198	NO	1.000	1.000	33.90	33.90	114.76	115	0.356		
13	13 2,3,4,6,7,8-HxCDF	2.58e5	3.98e5	10.0000	1.188	NO	1.001	1.000	34.49	34.47	109.96	110	0.376		
14	14 1,2,3,7,8,9-HxCDF	2.01e5	3.44e5	10.0000	1.248	NO	1.000	1.001	35.34	35.36	109.05	109	0.563		
15	15 1,2,3,4,6,7,8-HpCDF	2.01e5	3.08e5	10.0000	1.072	NO	1.001	1.001	37.12	37.10	115.60	116	0.458		
16	16 1,2,3,4,7,8,9-HpCDF	1.56e5	2.24e5	10.0000	1.060	NO	1.000	1.001	39.12	39.15	110.39	110	0.587		
17	17 OCDF	2.55e5	4.70e5	10.0000	0.877	NO	1.000	1.000	41.97	41.98	197.12	197	0.602		
18	18 13C-2,3,7,8-TCDD	4.97e5	5.39e5	10.0000	0.767	NO	1.027	1.027	26.15	26.14	176.01	88.0	0.521		
19	19 13C-1,2,3,7,8-PeCDD	3.57e5	5.39e5	10.0000	0.636	NO	1.230	1.229	31.29	31.29	178.19	89.1	0.537		
20	20 13C-1,2,3,4,7,8-Hx...	2.59e5	5.27e5	10.0000	1.236	NO	1.014	1.014	34.64	34.64	152.02	76.0	0.555		
21	21 13C-1,2,3,6,7,8-Hx...	3.07e5	5.27e5	10.0000	1.255	NO	1.017	1.017	34.73	34.74	150.26	75.1	0.462		
22	22 13C-1,2,3,7,8,9-Hx...	2.79e5	5.27e5	10.0000	1.242	NO	1.025	1.025	35.01	35.01	160.86	80.4	0.544		
23	23 13C-1,2,3,4,6,7,8-H...	2.19e5	5.27e5	10.0000	1.041	NO	1.127	1.128	38.51	38.52	155.78	77.9	0.605		
24	24 13C-OCDD	3.40e5	5.27e5	10.0000	0.888	NO	1.223	1.223	41.79	41.77	274.21	68.6	0.775		
25	25 13C-2,3,7,8-TCDF	6.79e5	7.92e5	10.0000	0.726	NO	0.989	0.989	25.16	25.16	175.39	87.7	0.695		
26	26 13C-1,2,3,7,8-PeCDF	5.09e5	7.92e5	10.0000	1.521	NO	1.178	1.178	29.98	29.98	165.44	82.7	0.899		
27	27 13C-2,3,4,7,8-PeCDF	4.84e5	7.92e5	10.0000	1.493	NO	1.217	1.217	30.97	30.97	162.99	81.5	0.933		
28	28 13C-1,2,3,4,7,8-Hx...	3.66e5	5.27e5	10.0000	0.518	NO	0.989	0.988	33.77	33.77	164.22	82.1	0.841		
29	29 13C-1,2,3,6,7,8-Hx...	4.23e5	5.27e5	10.0000	0.523	NO	0.992	0.992	33.89	33.89	156.43	78.2	0.692		
30	30 13C-2,3,4,6,7,8-Hx...	3.98e5	5.27e5	10.0000	0.535	NO	1.009	1.009	34.46	34.46	169.30	84.7	0.796		
31	31 13C-1,2,3,7,8,9-Hx...	3.44e5	5.27e5	10.0000	0.513	NO	1.035	1.034	35.37	35.34	177.81	88.9	0.968		
32	32 13C-1,2,3,4,6,7,8-H...	3.08e5	5.27e5	10.0000	0.438	NO	1.085	1.085	37.08	37.08	155.15	77.6	0.612		

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-2.qld

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Printed: Friday, December 20, 2019 12:14:03 Pacific Standard Time

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33	33 13C-1,2,3,4,7,8,9-H...	2.24e5	5.27e5	10.0000		0.435	NO	1.145	1.145	39.11	39.12	157.56	78.8		0.856
34	34 13C-OCDF	4.70e5	5.27e5	10.0000		0.892	NO	1.229	1.228	41.97	41.97	301.16	75.3		0.545
35	35 37Cl-2,3,7,8-TCDD	1.75e5	5.39e5	10.0000				1.028	1.028	26.17	26.17	60.727	75.9		0.0893
36	36 13C-1,2,3,4-TCDD	5.39e5	5.39e5	10.0000		0.795	NO	1.000	1.000	25.45	25.45	200.00	100.0		0.547
37	37 13C-1,2,3,4-TCDF	7.92e5	7.92e5	10.0000		0.726	NO	1.000	1.000	23.55	23.55	200.00	100.0		0.679
38	38 13C-1,2,3,4,6,9-Hx...	5.27e5	5.27e5	10.0000		0.520	NO	1.000	1.000	34.16	34.16	200.00	100.0		0.711

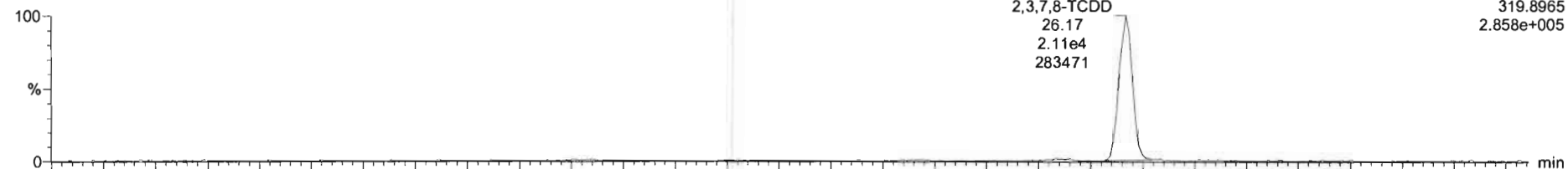
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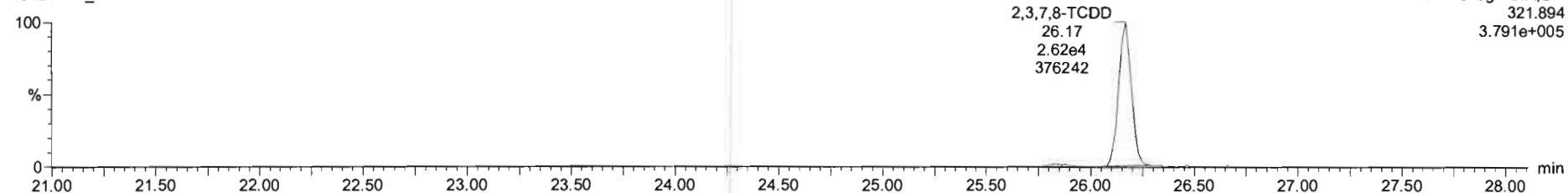
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**2,3,7,8-TCDD**

191217K2\_2

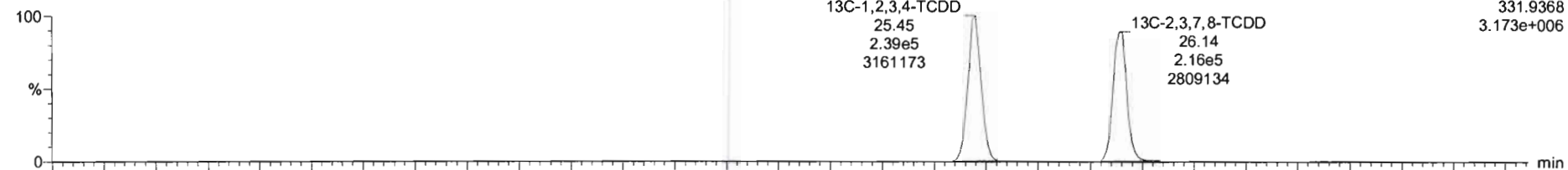


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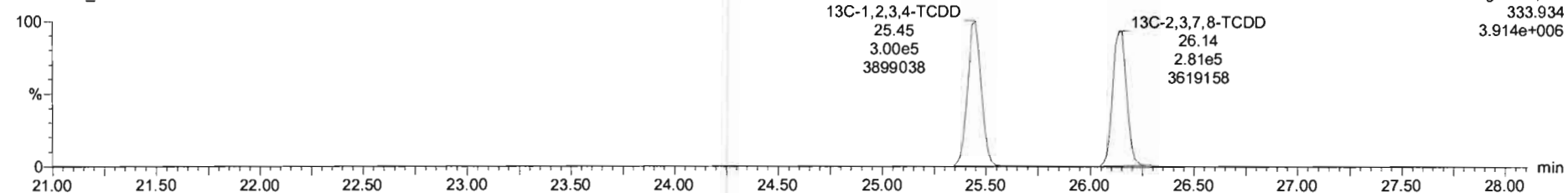


**13C-2,3,7,8-TCDD**

191217K2\_2



191217K2\_2





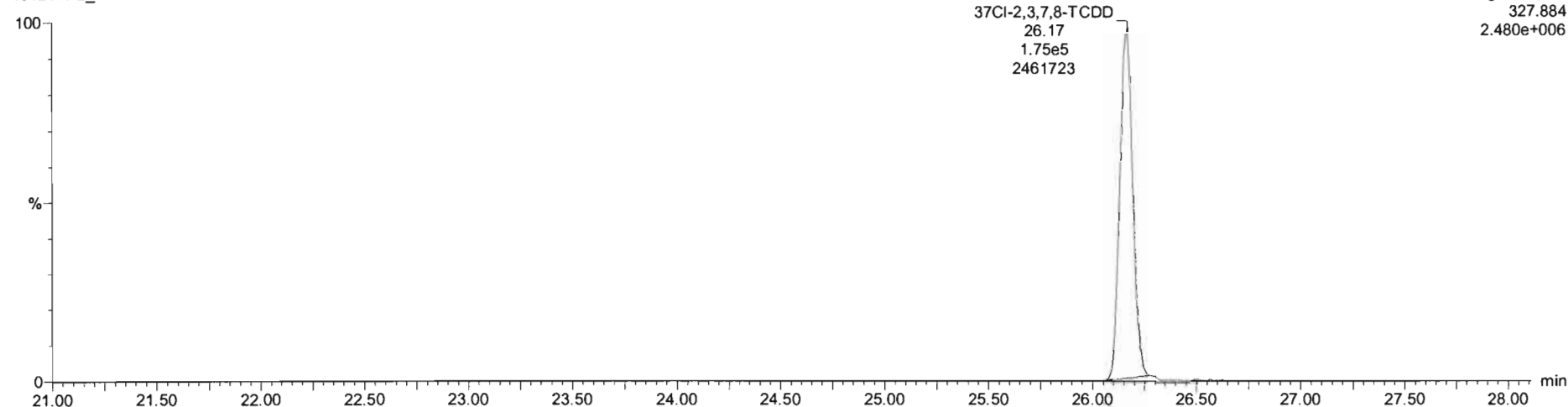
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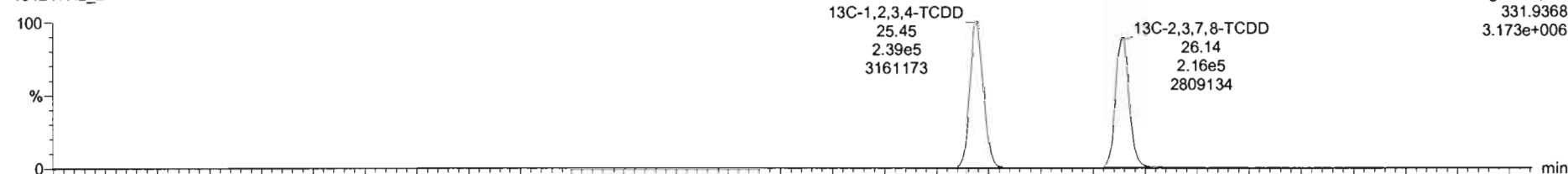
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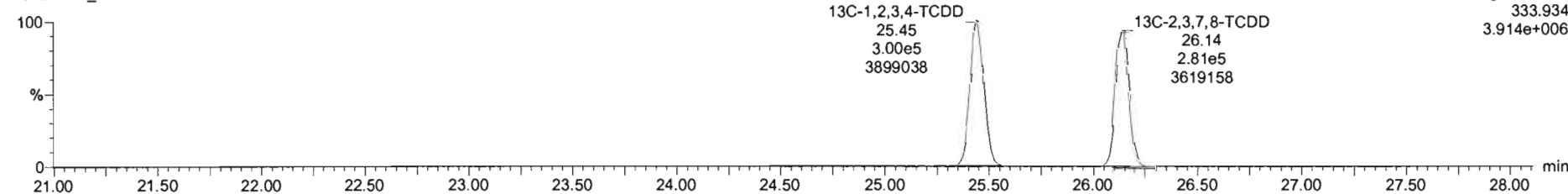


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191217K2\_2



191217K2\_2



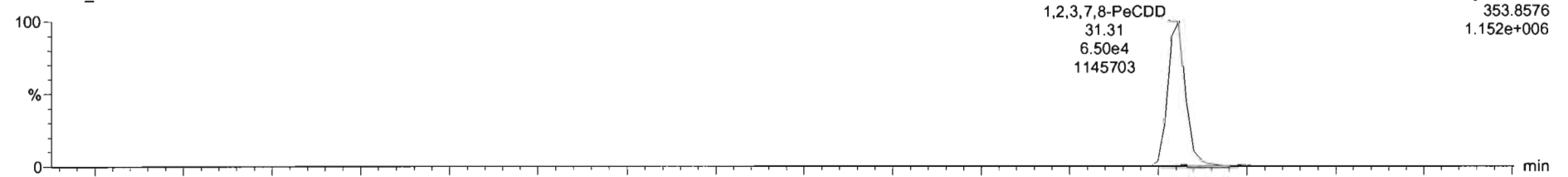
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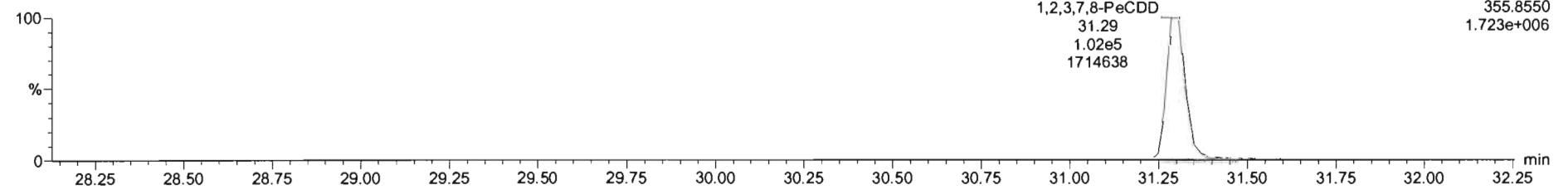
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**1,2,3,7,8-PeCDD**

191217K2\_2

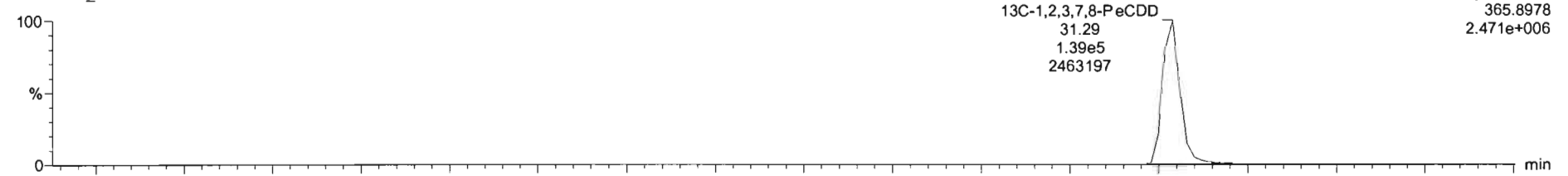


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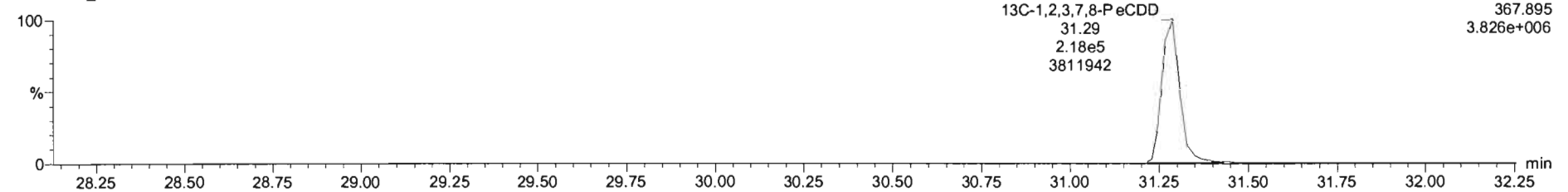


**13C-1,2,3,7,8-PeCDD**

191217K2\_2



191217K2\_2





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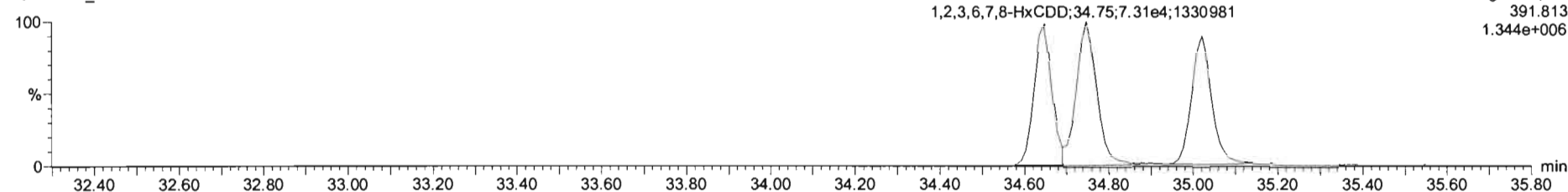
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**1,2,3,4,7,8-HxCDD**

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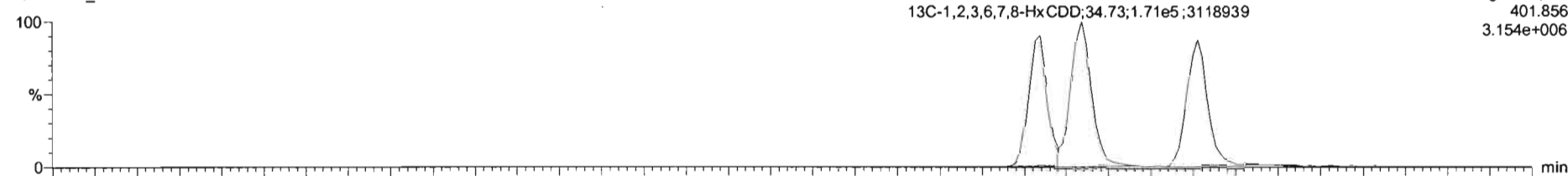


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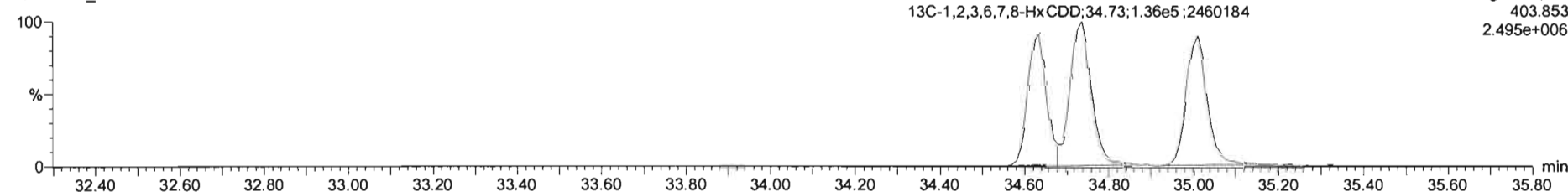


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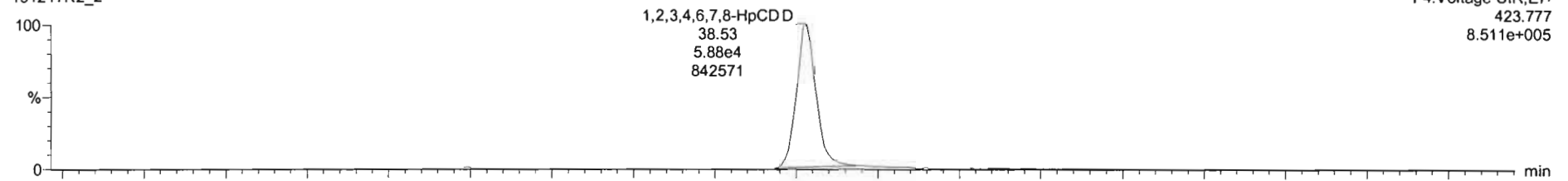
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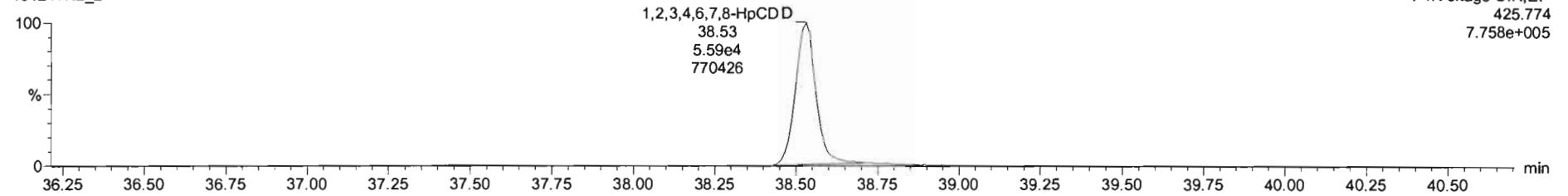
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**1,2,3,4,6,7,8-HpCDD**

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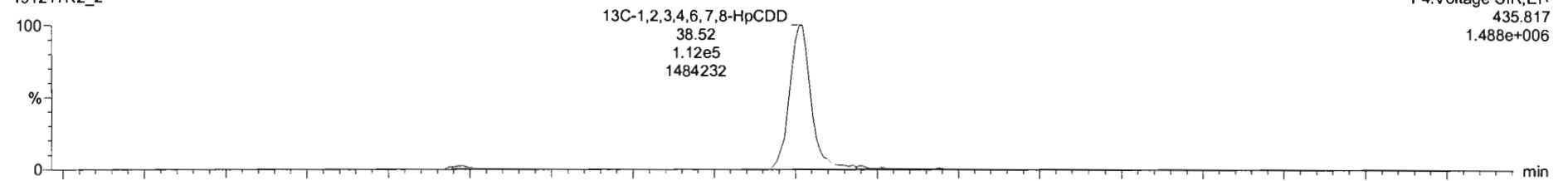


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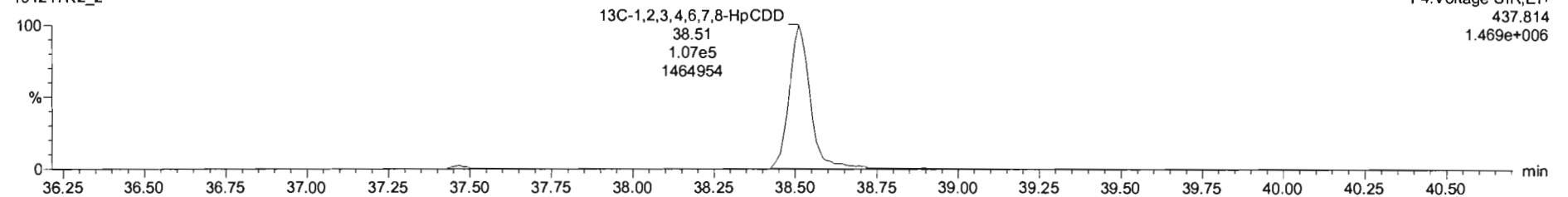


**13C-1,2,3,4,6,7,8-HpCDD**

191217K2\_2



191217K2\_2



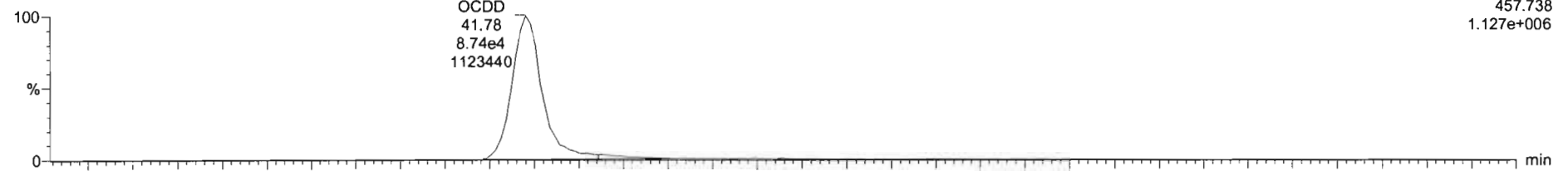
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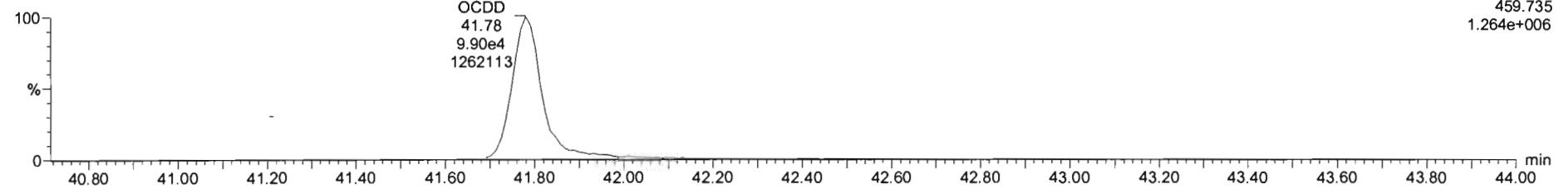
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**OCDD**

191217K2\_2

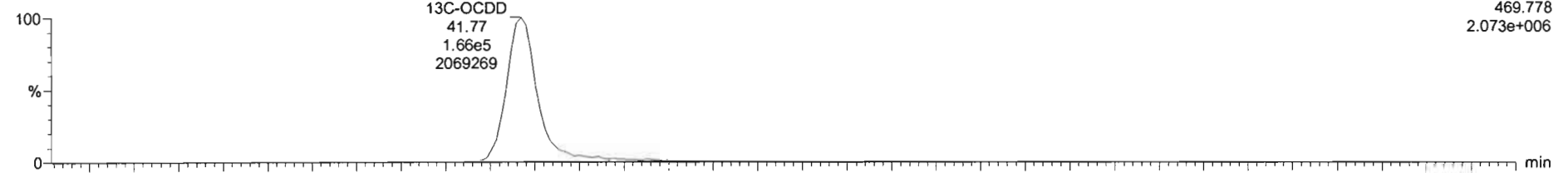


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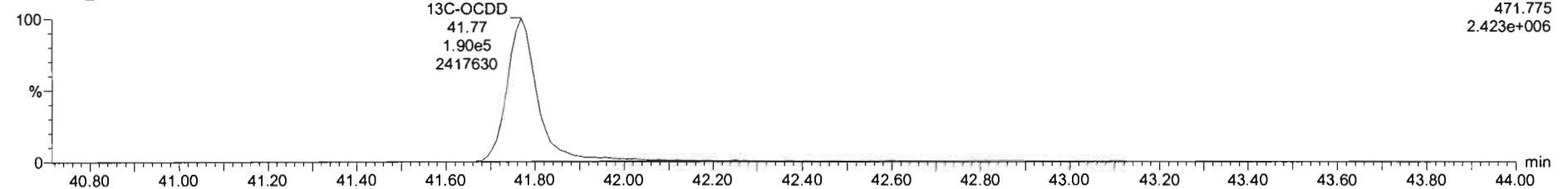


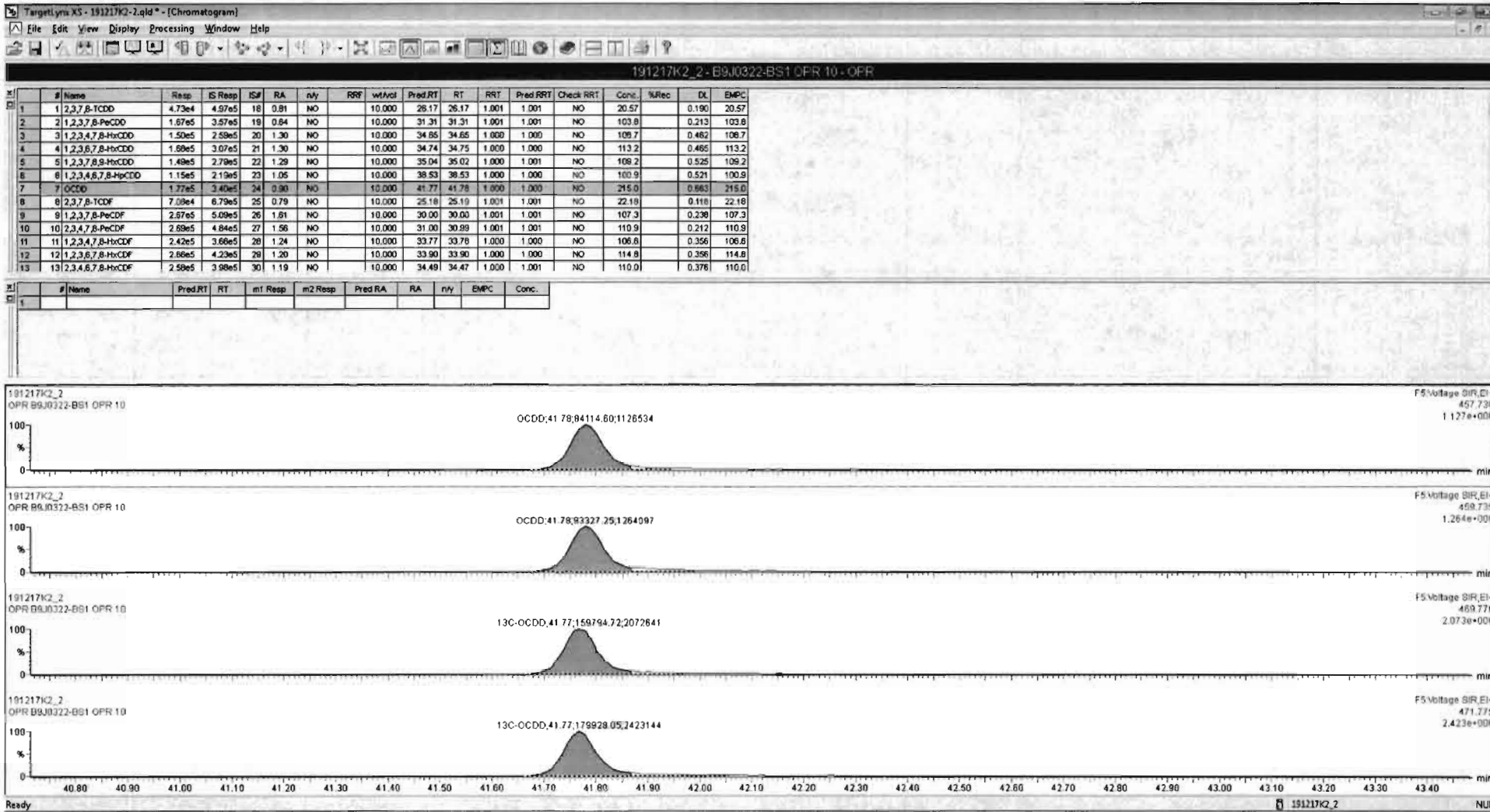
**13C-OCDD**

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191217K2\_2





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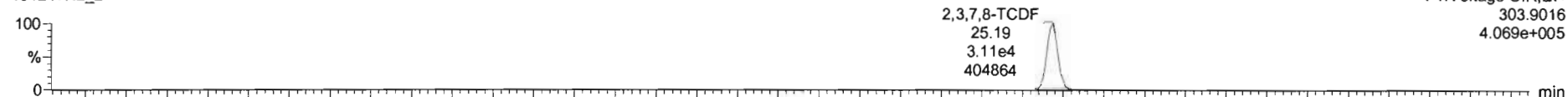
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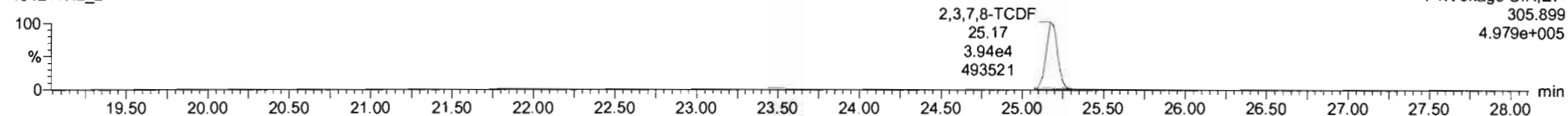
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**2,3,7,8-TCDF**

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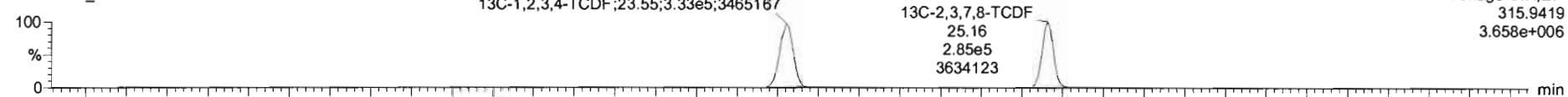


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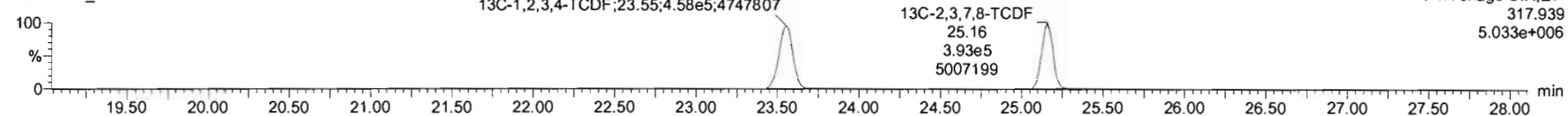


**13C-2,3,7,8-TCDF**

191217K2\_2

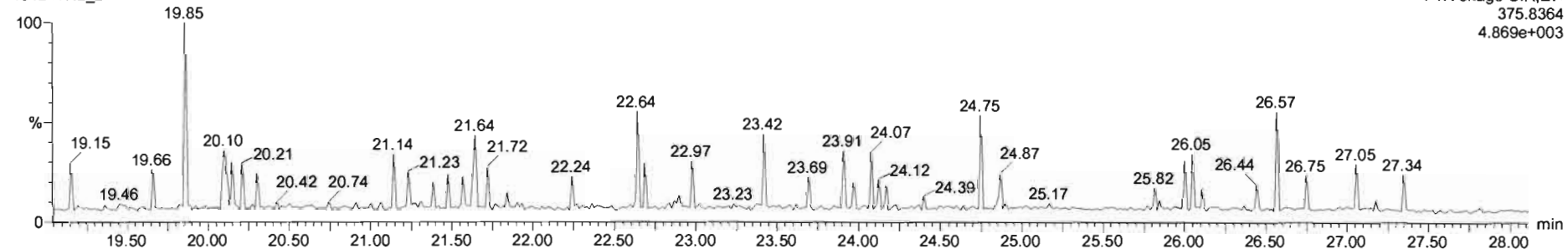


191217K2\_2



**DPE1**

191217K2\_2



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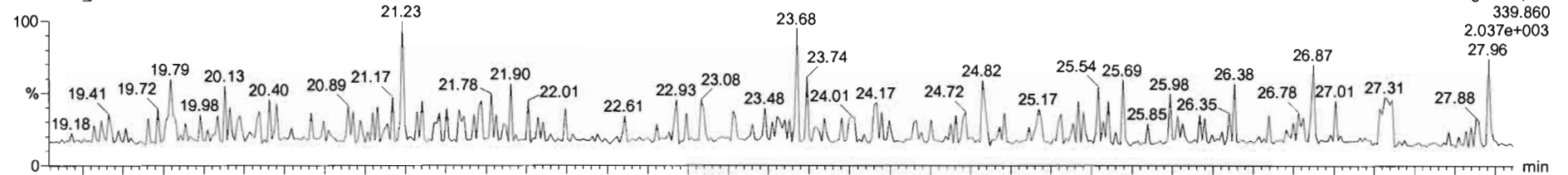
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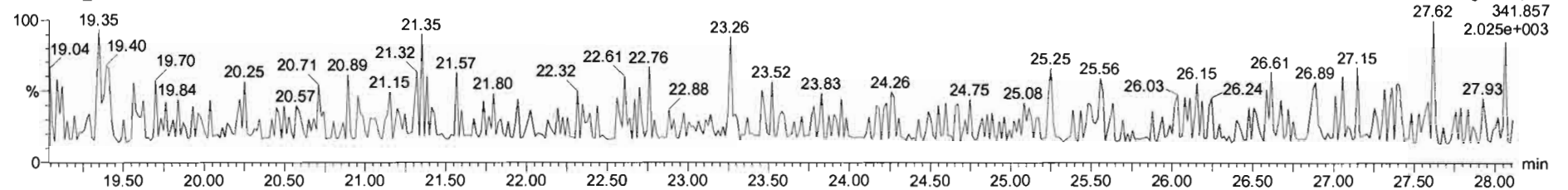
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191217K2\_2

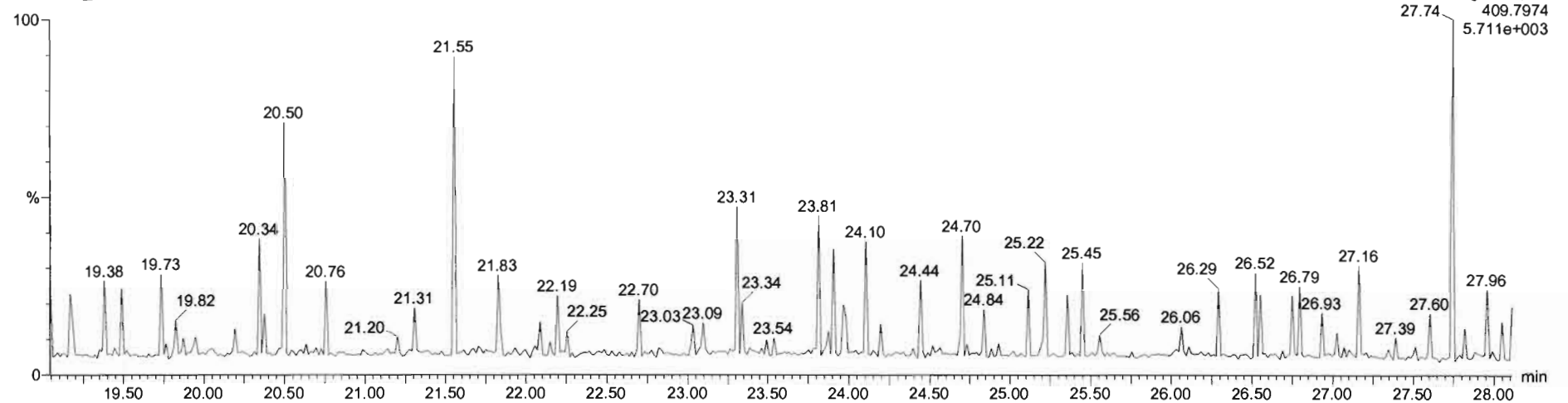


191217K2\_2



DPE6

191217K2\_2



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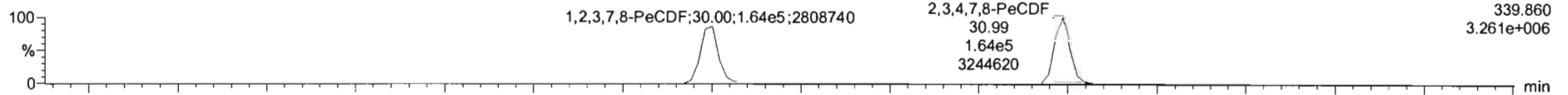
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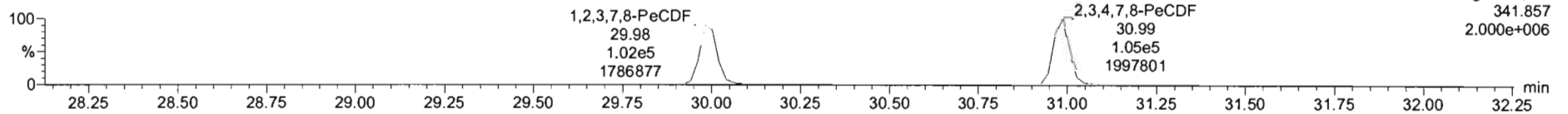
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**1,2,3,7,8-PeCDF**

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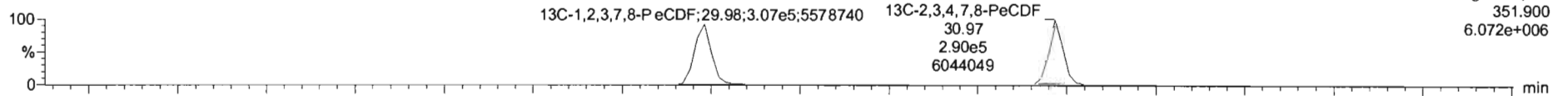


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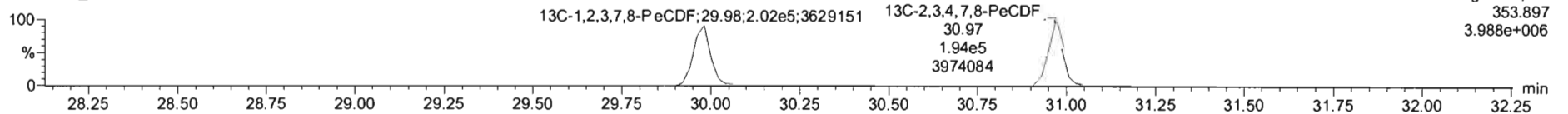


**13C-1,2,3,7,8-PeCDF**

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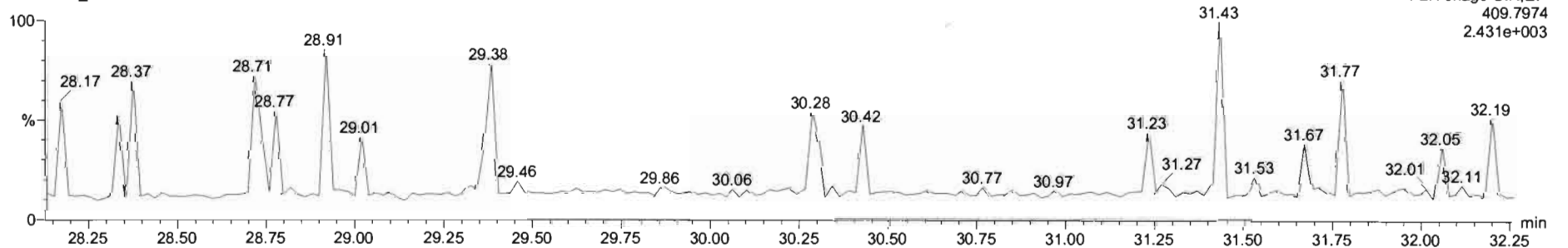


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**DPE2**

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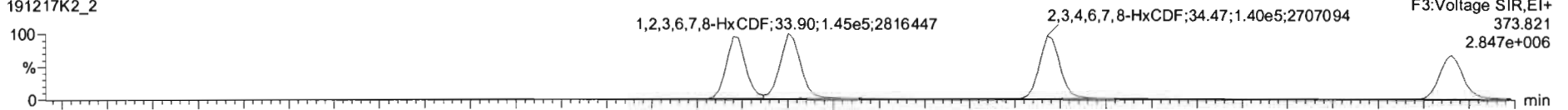
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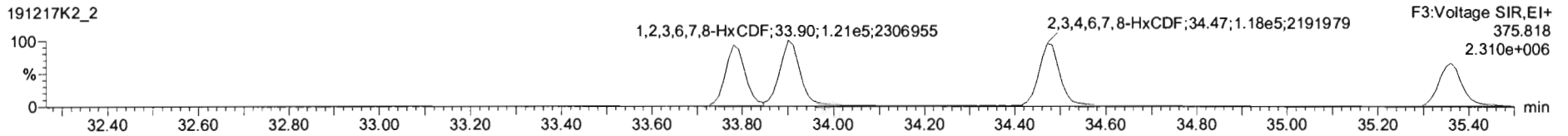
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**1,2,3,4,7,8-HxCDF**

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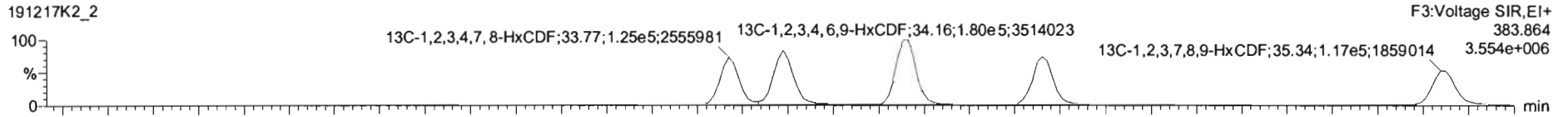


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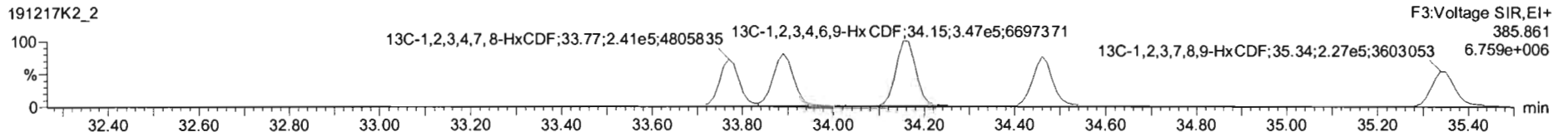


**13C-1,2,3,4,7,8-HxCDF**

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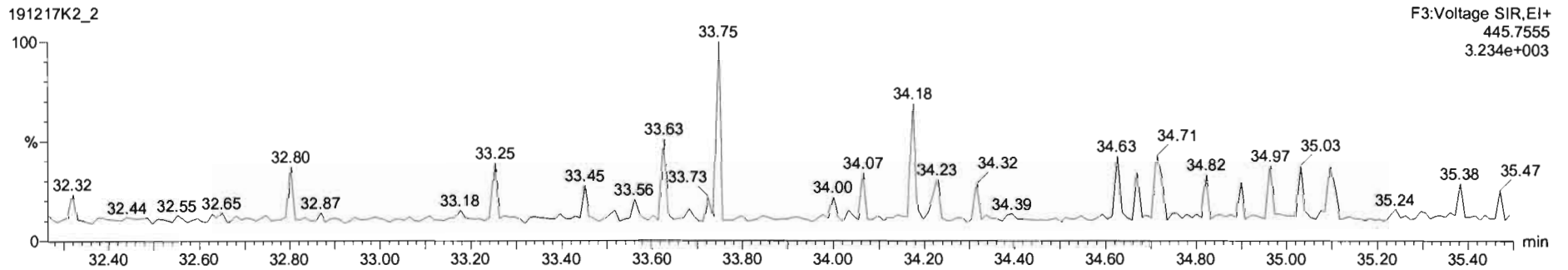


191217K2\_2



**DPE3**

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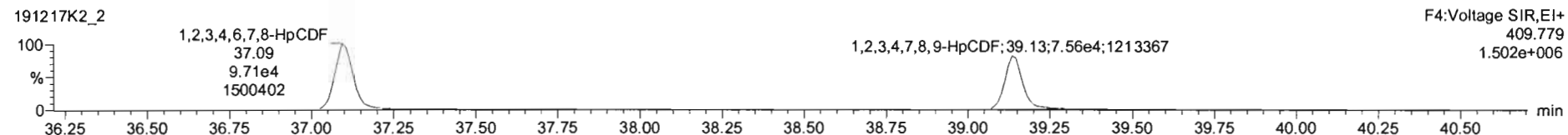
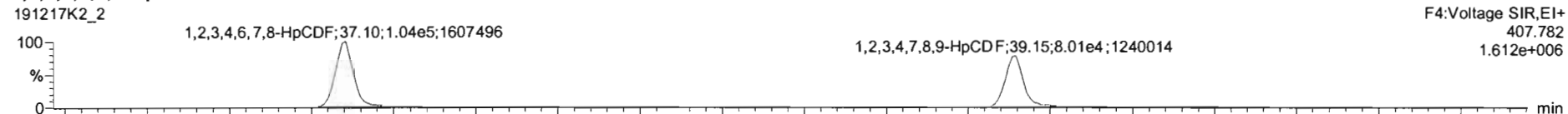
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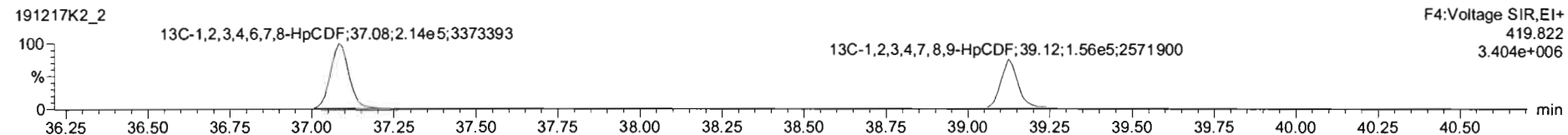
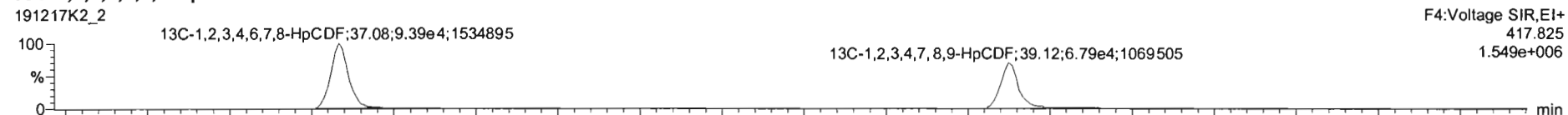
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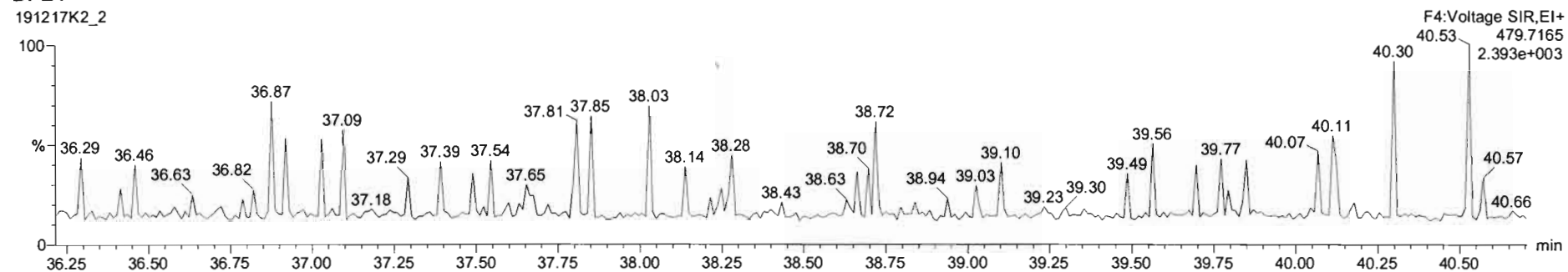
**1,2,3,4,6,7,8-HpCDF**



**13C-1,2,3,4,6,7,8-HpCDF**



**DPE4**

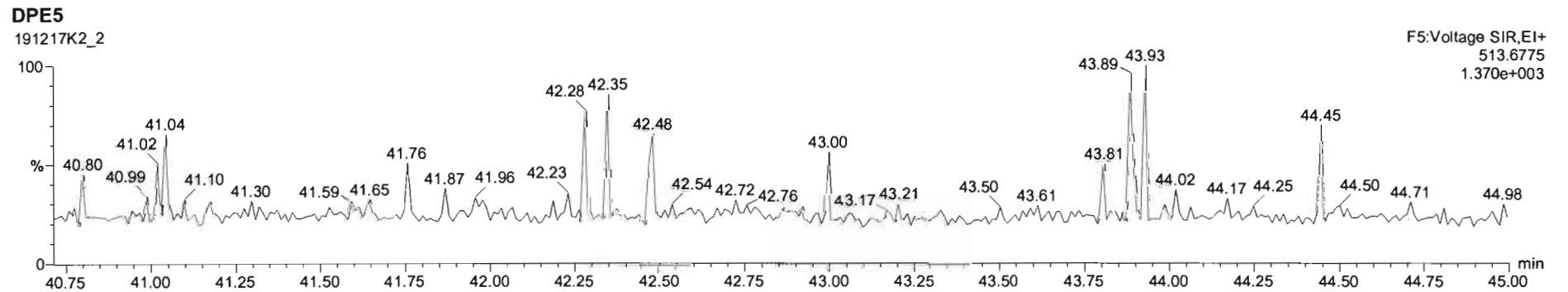
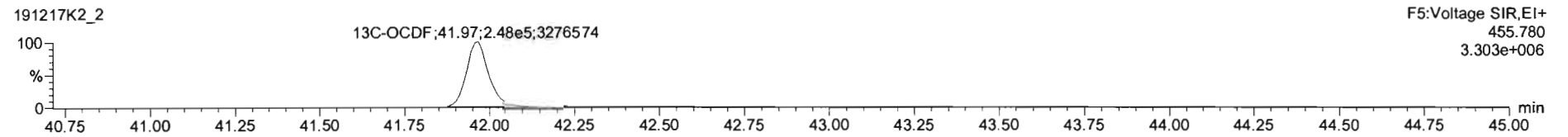
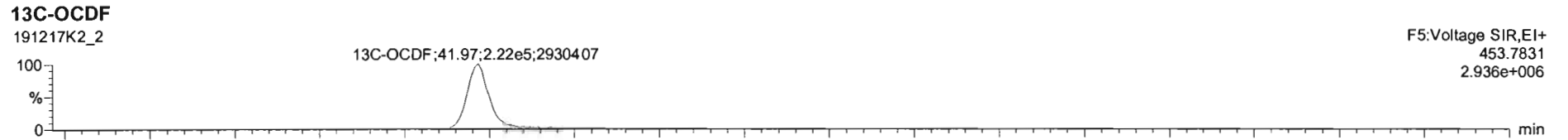
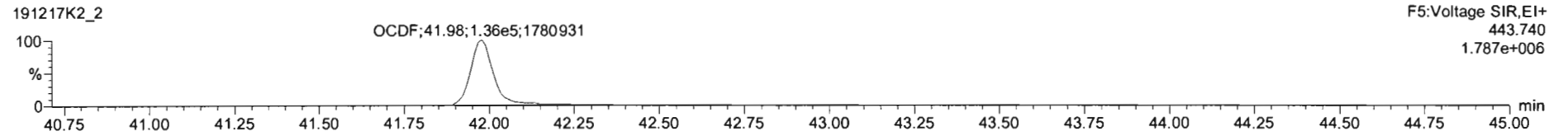
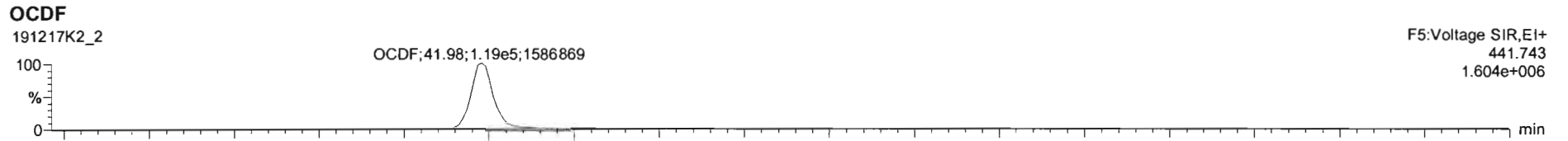


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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

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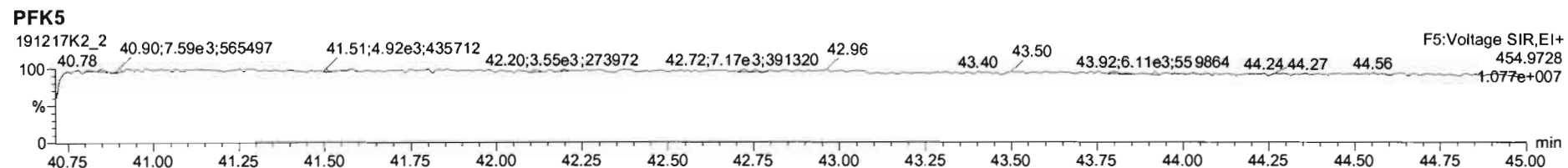
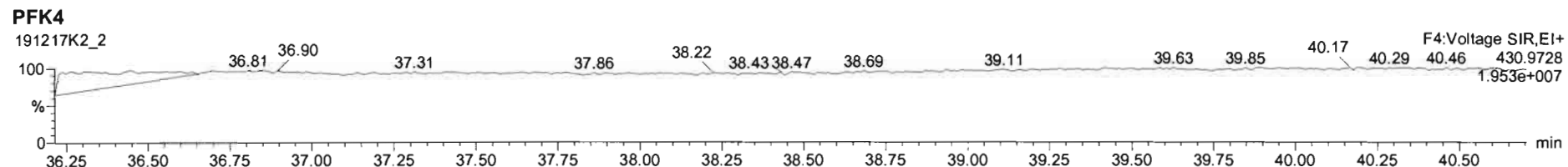
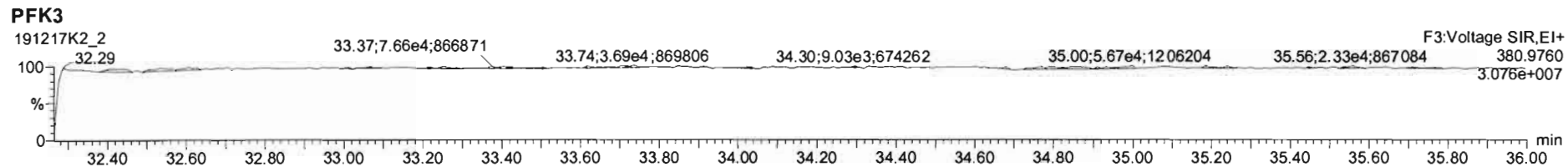
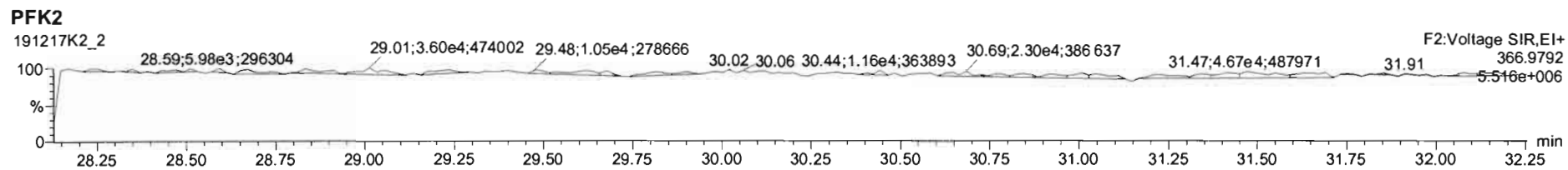
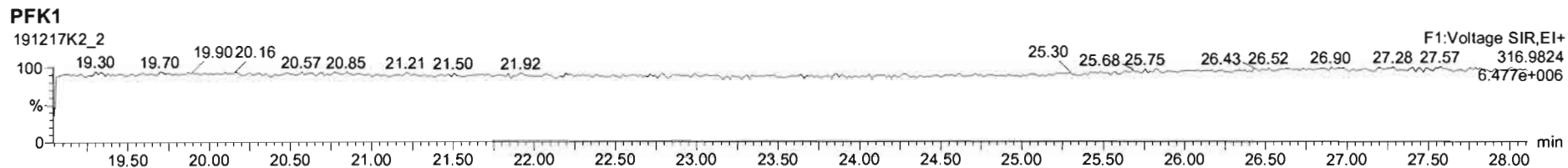


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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

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Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-4.qld  
 Last Altered: Friday, December 20, 2019 14:16:59 Pacific Standard Time  
 Printed: Friday, December 20, 2019 14:17:33 Pacific Standard Time

*HC 12-20-19*  
*MW*  
*1/6/20*

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57  
 Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
1	1 2,3,7,8-TCDD		2.76e5	10.0043	✓			1.001		26.18					0.258
2	2 1,2,3,7,8-PeCDD	4.10e2	2.34e5	10.0043		0.636	NO	1.001	1.001	31.31	31.33	0.38665		0.387	0.0990
3	3 1,2,3,4,7,8-HxCDD		1.61e5	10.0043				1.000		34.66					0.347
4	4 1,2,3,6,7,8-HxCDD	2.09e3	2.14e5	10.0043		1.561	YES	1.000	1.001	34.75 ✓	34.77	2.0167		1.76	0.333
5	5 1,2,3,7,8,9-HxCDD	1.00e3	1.73e5	10.0043		1.474	YES	1.001	1.000	35.06 ✓	35.02	1.1856		1.07	0.416
6	6 1,2,3,4,6,7,8-HpCDD	2.68e4	1.29e5	10.0043		1.036	NO	1.000	1.001	38.55	38.56	40.197		40.2	0.960
7	7 OCDD	2.19e5	2.00e5	10.0043		0.903	NO	1.000	1.000	41.80	41.81	449.38		449	3.29
8	8 2,3,7,8-TCDF	2.15e4	4.49e5	10.0043		0.832	NO	1.001	1.001	25.20	25.19	10.188 (7.59)		10.2	0.261
9	9 1,2,3,7,8-PeCDF	2.82e4	3.50e5	10.0043		1.585	NO	1.001	1.001	30.00	30.00	16.493		16.5	0.302
10	10 2,3,4,7,8-PeCDF	1.56e4	3.51e5	10.0043		1.632	NO	1.001	1.001	31.02	31.01	8.8218		8.82	0.292
11	11 1,2,3,4,7,8-HxCDF	5.53e4	2.37e5	10.0043		1.254	NO	1.000	1.001	33.78 ✓	33.80	37.512		37.5	0.336
12	12 1,2,3,6,7,8-HxCDF	1.77e4	2.91e5	10.0043		1.327	NO	1.000	1.000	33.91 ✓	33.91	11.102		11.1	0.339
13	13 2,3,4,6,7,8-HxCDF	3.28e3	2.53e5	10.0043		1.255	NO	1.001	1.001	34.51 ✓	34.49	2.1944		2.19	0.364
14	14 1,2,3,7,8,9-HxCDF	1.71e3	2.30e5	10.0043		1.042	YES	1.000	1.001	35.36 ✓	35.40	1.3813		1.27	0.522
15	15 1,2,3,4,6,7,8-HpCDF	3.40e4	2.05e5	10.0043		1.060	NO	1.001	1.001	37.14	37.13	29.430		29.4	0.552
16	16 1,2,3,4,7,8,9-HpCDF	6.80e3	1.40e5	10.0043		1.125	NO	1.000	1.001	39.15	39.17	7.7301		7.73	0.789
17	17 OCDF	3.29e4	2.84e5	10.0043		0.890	NO	1.000	1.000	42.00	42.01	42.071		42.1	0.616
18	18 13C-2,3,7,8-TCDD	2.76e5	3.33e5	10.0043		0.777	NO	1.027	1.028	26.15	26.15	158.05	79.1		0.763
19	19 13C-1,2,3,7,8-PeCDD	2.34e5	3.33e5	10.0043		0.645	NO	1.230	1.229	31.29	31.29	189.39	94.7		1.28
20	20 13C-1,2,3,4,7,8-Hx...	1.61e5	3.84e5	10.0043		1.244	NO	1.014	1.014	34.64	34.65	129.96	65.0		1.18
21	21 13C-1,2,3,6,7,8-Hx...	2.14e5	3.84e5	10.0043		1.294	NO	1.017	1.017	34.73 ✓	34.75	143.33	71.7		0.979
22	22 13C-1,2,3,7,8,9-Hx...	1.73e5	3.84e5	10.0043		1.313	NO	1.025	1.025	35.01 ✓	35.02	136.68	68.4		1.15
23	23 13C-1,2,3,4,6,7,8-H...	1.29e5	3.84e5	10.0043		1.073	NO	1.127	1.128	38.51	38.54	125.30	62.7		0.847
24	24 13C-OCDD	2.00e5	3.84e5	10.0043		0.912	NO	1.223	1.224	41.79	41.80	221.50	55.4		1.33
25	25 13C-2,3,7,8-TCDF	4.49e5	5.82e5	10.0043		0.715	NO	0.989	0.989	25.16	25.17	157.97	79.0		0.696
26	26 13C-1,2,3,7,8-PeCDF	3.50e5	5.82e5	10.0043		1.537	NO	1.178	1.178	29.98	29.98	154.59	77.3		0.966
27	27 13C-2,3,4,7,8-PeCDF	3.51e5	5.82e5	10.0043		1.595	NO	1.217	1.218	30.97	30.99	160.67	80.4		1.00
28	28 13C-1,2,3,4,7,8-Hx...	2.37e5	3.84e5	10.0043		0.516	NO	0.989	0.989	33.77 ✓	33.78	145.89	73.0		1.63
29	29 13C-1,2,3,6,7,8-Hx...	2.91e5	3.84e5	10.0043		0.521	NO	0.992	0.992	33.89 ✓	33.90	147.25	73.7		1.34
30	30 13C-2,3,4,6,7,8-Hx...	2.53e5	3.84e5	10.0043		0.520	NO	1.009	1.009	34.46 ✓	34.47	147.52	73.8		1.54
31	31 13C-1,2,3,7,8,9-Hx...	2.30e5	3.84e5	10.0043		0.535	NO	1.035	1.035	35.37 ✓	35.36	163.10	81.6		1.87
32	32 13C-1,2,3,4,6,7,8-H...	2.05e5	3.84e5	10.0043		0.455	NO	1.085	1.086	37.08	37.10	141.18	70.6		0.889

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-4.qld

Last Altered: Friday, December 20, 2019 14:16:59 Pacific Standard Time

Printed: Friday, December 20, 2019 14:17:33 Pacific Standard Time

Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
33	33 13C-1,2,3,4,7,8,9-H...	1.40e5	3.84e5	10.0043		0.440	NO	1.145	1.146	39.11	39.15	134.67	67.4		1.24
34	34 13C-OCDF	2.84e5	3.84e5	10.0043		0.873	NO	1.229	1.229	41.97	42.00	249.05	62.3		1.20
35	35 37Cl-2,3,7,8-TCDD	1.26e5	3.33e5	10.0043				1.028	1.029	26.17	26.18	70.615	88.3		0.190
36	36 13C-1,2,3,4-TCDD	3.33e5	3.33e5	10.0043		0.787	NO	1.000	1.000	25.45	25.45	199.91	100.0		0.800
37	37 13C-1,2,3,4-TCDF	5.82e5	5.82e5	10.0043		0.735	NO	1.000	1.000	23.55	23.57	199.91	100.0		0.680
38	38 13C-1,2,3,4,6,9-Hx...	3.84e5	3.84e5	10.0043		0.541	NO	1.000	1.000	34.16	34.16	199.91	100.0		1.37
39	39 Total Tetra-Dioxins		2.76e5	10.0043				0.000		24.62		0.00000		0.265	0.151
40	40 Total Penta-Dioxins		2.34e5	10.0043				0.000		29.96		0.38665		1.26	0.0990
41	41 Total Hexa-Dioxins		0.00e0	10.0043				0.000		33.63		13.207		16.0	0.376
42	42 Total Hepta-Dioxins		1.29e5	10.0043				0.000		38.80		80.656		80.7	0.960
43	43 Total Tetra-Furans		4.49e5	10.0043				0.000		23.61		29.322		33.6	0.261
44	44 1st Func. Penta-Fur...		0.00e0	10.0043				0.000		27.04		2.7419		2.74	0.0581
45	45 Total Penta-Furans		0.00e0	10.0043				0.000		29.27		43.478		44.5	0.301
46	46 Total Hexa-Furans		0.00e0	10.0043				0.000		33.56		67.360		70.4	0.372
47	47 Total Hepta-Furans		0.00e0	10.0043				0.000		37.83		60.094		60.1	0.685

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-4.qld  
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 Printed: Friday, December 20, 2019 14:17:33 Pacific Standard Time

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Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010

**Tetra-Dioxins**

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	39 Total Tetra-Dioxins	YES	21.86	147.447	120690.727	0.000	MM	0.0000	0.27

**Penta-Dioxins**

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	2 1,2,3,7,8-PeCDD	NO	31.33	159.335	91883.344	3.499	MM	0.3866	0.39
2	40 Total Penta-Dioxins	YES	29.08	384.583	91883.344	0.000	MM	0.0000	0.74
3	40 Total Penta-Dioxins	YES	29.56	66.622	91883.344	0.000	MM	0.0000	0.14

**Hexa-Dioxins**

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	41 Total Hexa-Dioxins	NO	34.00	3933.735	102846.573	81.427	MM	8.4128	8.41
2	41 Total Hexa-Dioxins	NO	33.20	2415.048	102846.573	46.404	MM	4.7943	4.79
3	5 1,2,3,7,8,9-HxCDD	YES	35.02	598.573	98362.578	0.000	MM	0.0000	1.07
4	4 1,2,3,6,7,8-HxCDD	YES	34.77	1272.932	120687.852	0.000	bb	0.0000	1.76

**Hepta-Dioxins**

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	NO	38.56	13652.671	66591.344	417.227	MM	40.1971	40.20
2	42 Total Hepta-Dioxins	NO	37.51	13861.322	66591.344	419.940	MM	40.4584	40.46

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-4.qld

Last Altered: Friday, December 20, 2019 14:16:59 Pacific Standard Time

Printed: Friday, December 20, 2019 14:17:33 Pacific Standard Time

Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010

**Tetra-Furans**

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	43 Total Tetra-Furans	NO	23.58	865.213	187304.953	8.480	MM	0.9040	0.90
2	43 Total Tetra-Furans	YES	23.46	709.308	187304.953	0.000	bd	0.0000	0.64
3	43 Total Tetra-Furans	NO	22.64	776.768	187304.953	8.099	db	0.8635	0.86
4	43 Total Tetra-Furans	YES	22.45	473.207	187304.953	0.000	MM	0.0000	0.36
5	43 Total Tetra-Furans	YES	22.30	1519.155	187304.953	0.000	MM	0.0000	1.29
6	43 Total Tetra-Furans	NO	21.81	3618.101	187304.953	36.567	MM	3.8983	3.90
7	43 Total Tetra-Furans	NO	21.44	1059.894	187304.953	11.884	MM	1.2669	1.27
8	43 Total Tetra-Furans	YES	20.91	738.358	187304.953	0.000	bb	0.0000	0.81
9	43 Total Tetra-Furans	YES	20.28	418.967	187304.953	0.000	MM	0.0000	0.46
10	43 Total Tetra-Furans	YES	27.34	954.637	187304.953	0.000	bb	0.0000	0.77
11	43 Total Tetra-Furans	NO	25.59	771.025	187304.953	7.751	MM	0.8263	0.83
12	8 2,3,7,8-TCDF	NO	25.19	9756.010	187304.953	95.567	MM	10.1882	10.19
13	43 Total Tetra-Furans	NO	25.08	696.063	187304.953	6.713	MM	0.7156	0.72
14	43 Total Tetra-Furans	NO	24.49	497.387	187304.953	4.756	MM	0.5070	0.51
15	43 Total Tetra-Furans	NO	24.17	9598.048	187304.953	95.226	MM	10.1518	10.15

**Penta-Furans function 1**

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	44 1st Func. Penta-Furans	NO	27.36	2793.324	213805.641	26.778	bb	2.7419	2.74

**Penta-Furans**

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	9 1,2,3,7,8-PeCDF	NO	30.00	17280.893	212034.141	161.072	MM	16.4929	16.49
2	45 Total Penta-Furans	NO	29.80	1990.839	213805.641	19.442	MM	1.9908	1.99
3	45 Total Penta-Furans	NO	29.60	1012.669	213805.641	9.503	MM	0.9730	0.97
4	45 Total Penta-Furans	NO	28.99	9778.220	213805.641	90.588	MM	9.2757	9.28
5	45 Total Penta-Furans	YES	28.85	708.520	213805.641	0.000	MM	0.0000	0.54
6	45 Total Penta-Furans	YES	31.91	631.973	213805.641	0.000	MM	0.0000	0.45
7	10 2,3,4,7,8-PeCDF	NO	31.01	9642.343	215577.141	88.686	MM	8.8218	8.82
8	45 Total Penta-Furans	NO	30.28	6276.095	213805.641	57.848	MM	5.9234	5.92

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-4.qld

Last Altered: Friday, December 20, 2019 14:16:59 Pacific Standard Time

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Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010

**Hexa-Furans**

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	46 Total Hexa-Furans	NO	32.64	1971.058	86751.822	26.957	MM	2.2824	2.28
2	14 1,2,3,7,8,9-HxCDF	YES	35.40	870.604	80204.539	0.000	MM	0.0000	1.27
3	13 2,3,4,6,7,8-HxCDF	NO	34.49	1825.715	86633.125	25.918	bb	2.1944	2.19
4	12 1,2,3,6,7,8-HxCDF	NO	33.91	10075.521	99492.242	121.618	MM	11.1019	11.10
5	11 1,2,3,4,7,8-HxCDF	NO	33.80	30760.068	80677.383	466.643	MM	37.5123	37.51
6	46 Total Hexa-Furans	NO	33.34	5398.253	86751.822	78.650	bb	6.6590	6.66
7	46 Total Hexa-Furans	NO	32.81	6325.576	86751.822	89.876	MM	7.6095	7.61
8	46 Total Hexa-Furans	NO	35.42	1470.835	86751.822	0.000	MM	0.0000	1.77

**Hepta-Furans**

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	NO	39.17	3601.698	42647.352	97.514	MM	7.7301	7.73
2	47 Total Hepta-Furans	NO	37.71	11454.923	53316.446	259.259	MM	22.9339	22.93
3	15 1,2,3,4,6,7,8-HpCDF	NO	37.13	17520.783	63985.539	332.695	MM	29.4300	29.43

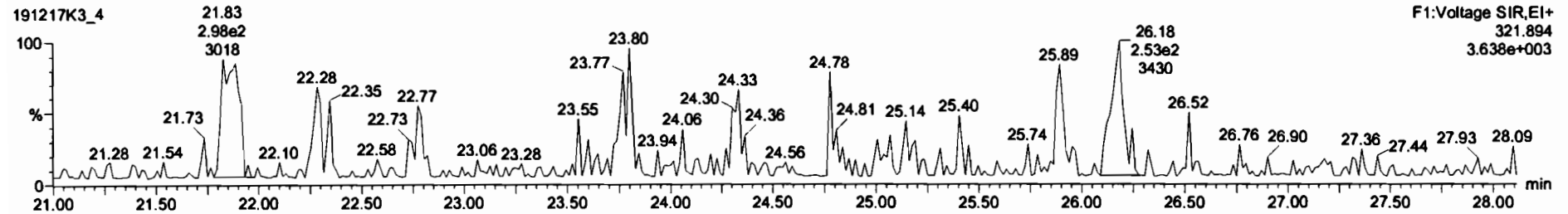
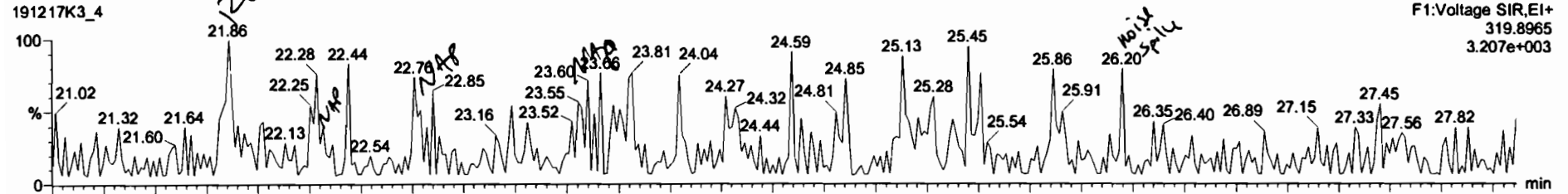


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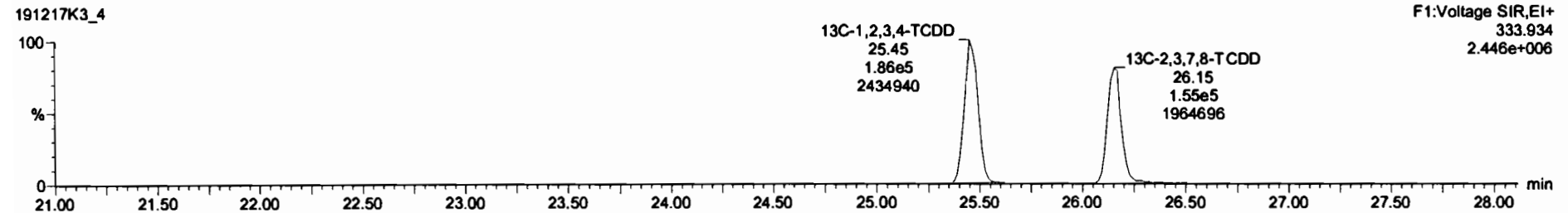
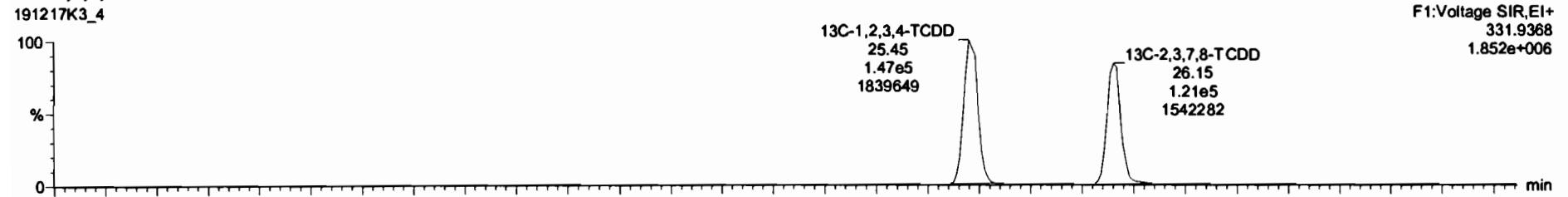
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Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010

2,3,7,8-TCDD

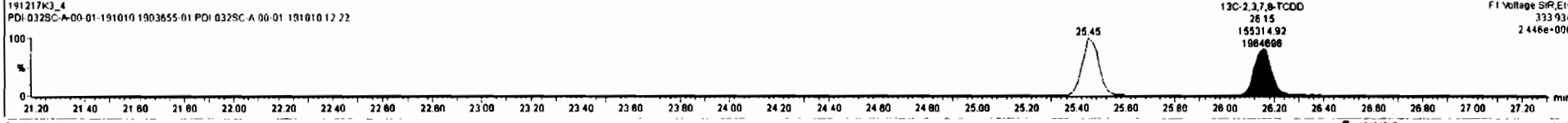
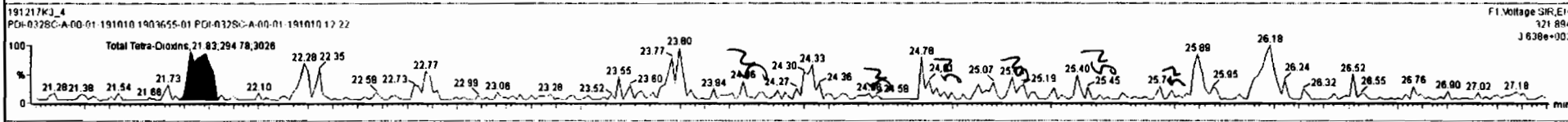
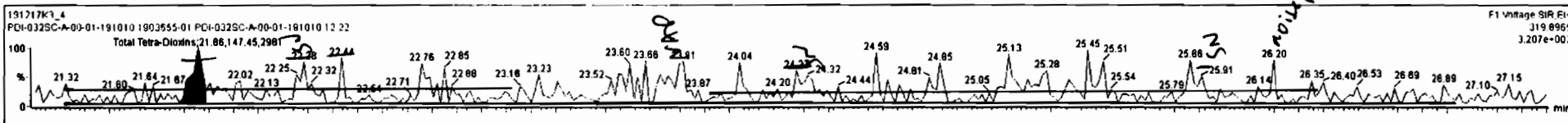


13C-2,3,7,8-TCDD



#	Name	Resp	IS Resp	ISL	RA	rvy	RRF	Vol	Prod RT	RT	RRT	Prod RRT	Check RRT	Conc.	%Rec	DL	EMPC
25	13C-2,3,7,8-TCDF	4.49e5	5.82e5	37	0.71	NO		10.004	25.18	25.17	0.999	0.999	NO	158.0	79.0	0.696	
26	13C-1,2,3,7,8-PeCDF	3.50e5	5.82e5	37	1.54	NO		10.004	29.98	29.98	1.178	1.178	NO	154.8	77.3	0.986	
27	13C-2,3,4,7,8-PeCDF	3.51e5	5.82e5	37	1.80	NO		10.004	30.97	30.95	1.218	1.217	NO	160.7	80.4	1.00	
28	13C-1,2,3,4,7,8-HxCDF	2.37e5	3.84e5	38	0.52	NO		10.004	33.77	33.78	0.989	0.989	NO	145.9	73.0	1.63	
29	13C-1,2,3,6,7,8-HxCDF	2.91e5	3.84e5	38	0.52	NO		10.004	33.88	33.90	0.992	0.992	NO	147.2	73.7	1.34	
30	13C-2,3,4,6,7,8-HxCDF	2.53e5	3.84e5	38	0.52	NO		10.004	34.46	34.47	1.008	1.008	NO	147.5	73.8	1.54	
31	13C-1,2,3,7,8,9-HxCDF	2.30e5	3.84e5	38	0.53	NO		10.004	35.37	35.36	1.035	1.035	NO	162.1	81.8	1.07	
32	13C-1,2,3,4,6,7,8-HpCDF	2.05e5	3.84e5	38	0.45	NO		10.004	37.08	37.10	1.086	1.085	NO	141.2	70.8	0.889	
33	13C-1,2,3,4,7,8,9-HpCDF	1.40e5	3.84e5	38	0.44	NO		10.004	38.11	38.15	1.148	1.145	NO	134.7	67.4	1.24	

#	Name	Prod RT	RT	m1 Resp	m2 Resp	Prod RA	RA	rvy	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.82	21.86	1.474e2	2.948e2	0.770	0.50	YES	0.28542	0.00000



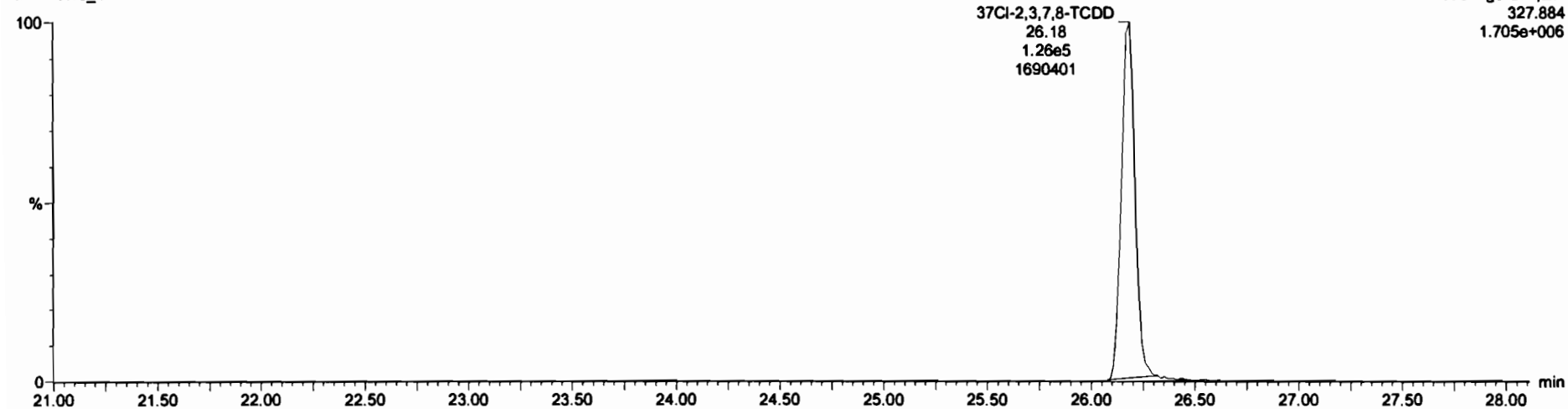
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Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010

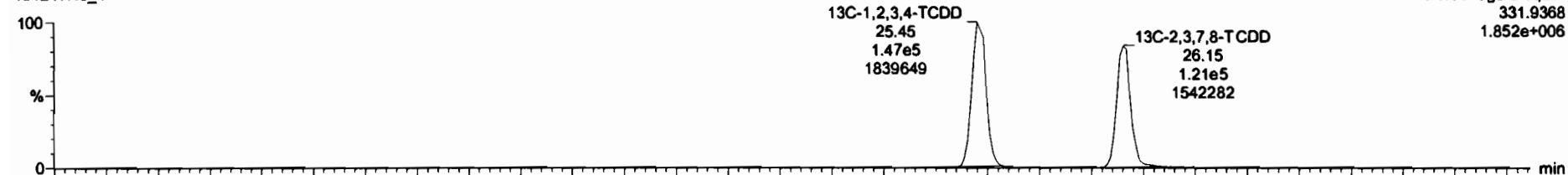
**37Cl-2,3,7,8-TCDD**

191217K3\_4

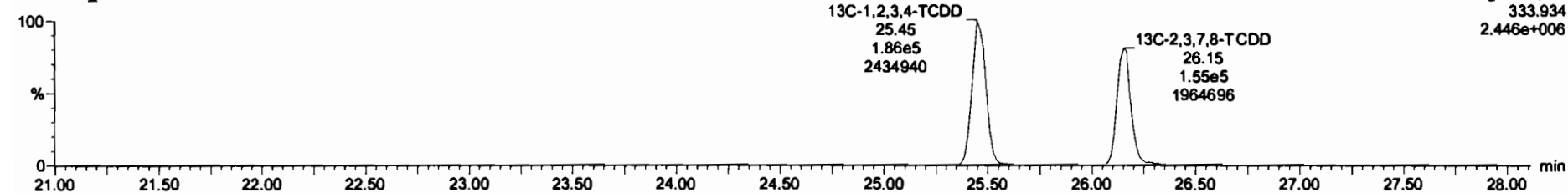


**13C-1,2,3,4-TCDD**

191217K3\_4



191217K3\_4

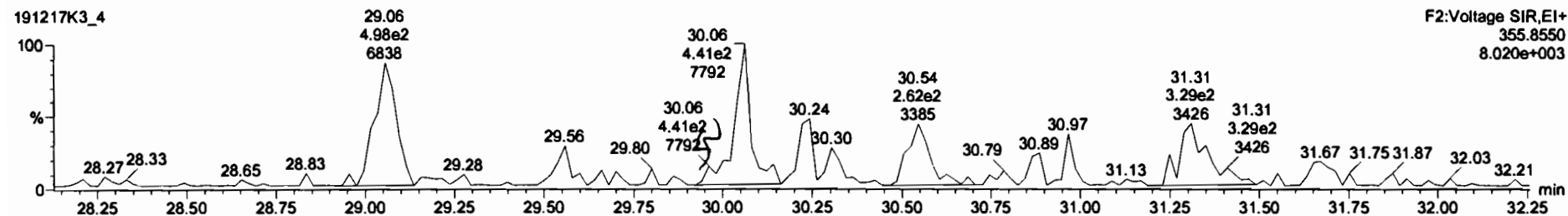
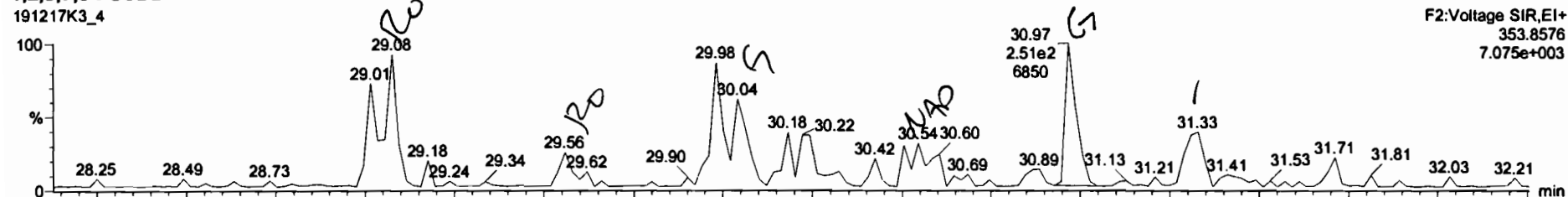


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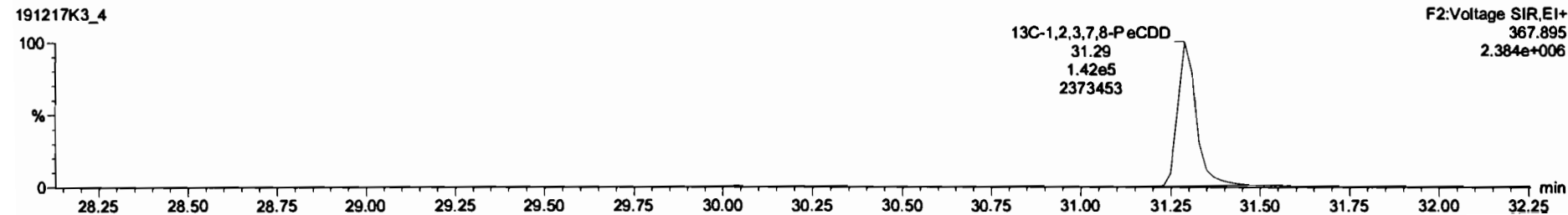
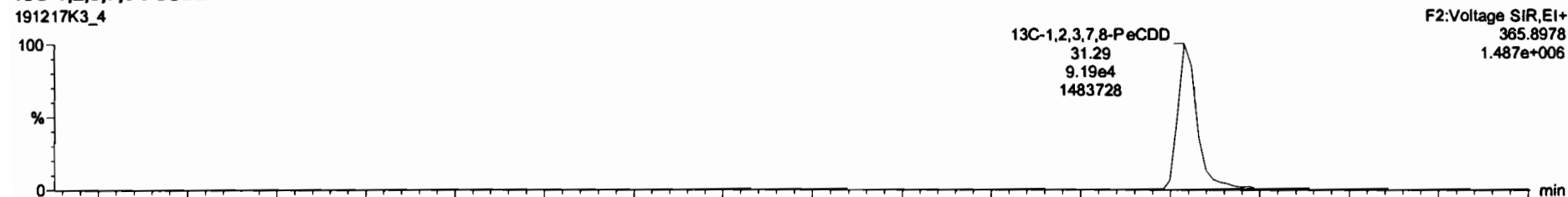
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Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010

1,2,3,7,8-PeCDD

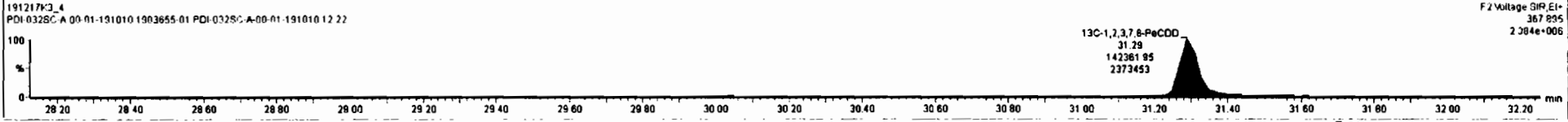
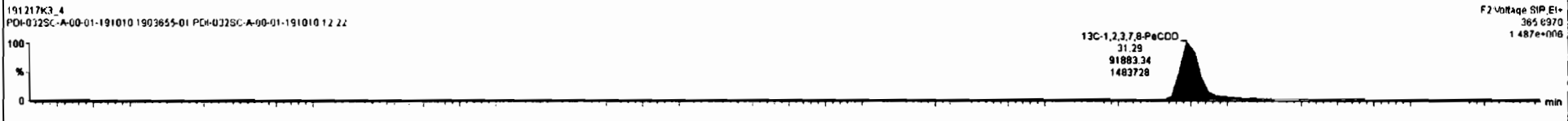
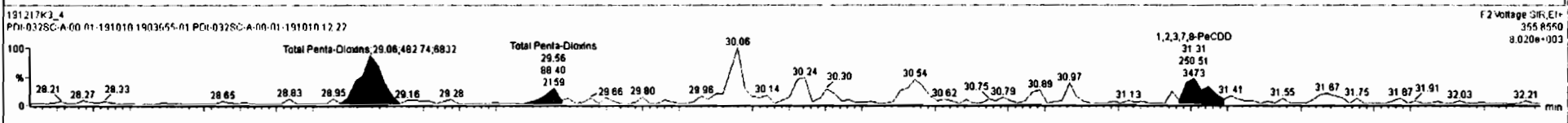
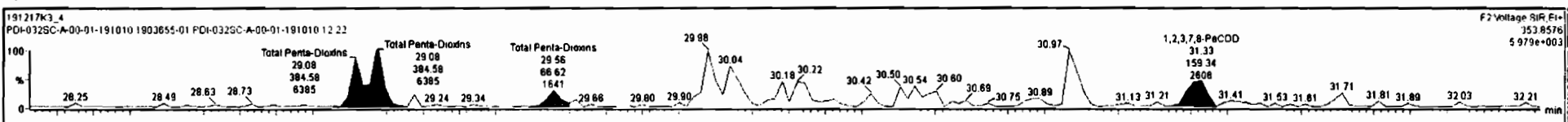


13C-1,2,3,7,8-PeCDD



#	Name	Resp	IS Resp	SP	RA	rvj	RNF	wtVol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
24	13C-OCDD	2.00e5	3.84e5	30	0.91	NO		10.004	41.79	41.80	1.224	1.223	NO	221.5	55.4	1.33	
25	13C-2,3,7,8-TCDF	4.49e5	5.82e5	37	0.71	NO		10.004	25.16	25.17	0.989	0.989	NO	158.0	79.0	0.898	
26	13C-1,2,3,7,8-PeCDF	3.50e5	5.82e5	37	1.54	NO		10.004	28.98	28.98	1.178	1.178	NO	154.6	77.3	0.988	
27	13C-2,3,4,7,8-PeCDF	3.51e5	5.82e5	37	1.80	NO		10.004	30.97	30.98	1.218	1.217	NO	160.7	80.4	1.00	
28	13C-1,2,3,4,7,8-HxCDF	2.37e5	3.84e5	38	0.52	NO		10.004	33.77	33.78	0.989	0.989	NO	145.9	73.0	1.63	
29	13C-1,2,3,6,7,8-HxCDF	2.91e5	3.84e5	38	0.52	NO		10.004	33.88	33.88	0.992	0.992	NO	147.2	73.7	1.34	
30	13C-2,3,4,6,7,8-HxCDF	2.53e5	3.84e5	38	0.52	NO		10.004	34.46	34.47	1.008	1.008	NO	147.5	73.6	1.54	
31	13C-1,2,3,7,8-HxCDF	2.30e5	3.84e5	38	0.53	NO		10.004	35.37	35.38	1.035	1.035	NO	163.1	81.6	1.87	
32	13C-1,2,3,4,6,7,8-HpCDF	2.05e5	3.84e5	38	0.45	NO		10.004	37.08	37.10	1.086	1.085	NO	141.2	70.8	0.888	
33	13C-1,2,3,4,7,8,9-HxCDF	1.80e5	3.84e5	38	0.44	NO		10.004	38.11	38.12	1.148	1.147	NO	154.7	77.4	1.24	

#	Name	Pred RT	RT	int Resp	ext Resp	Pred RA	RA	rvj	EMPC	Conc.
1	40 Total Penta-Dioxins	29.98	29.08	3.646e2	4.827e2	0.630	0.80	YES	0.74233	0.00000
2	40 Total Penta-Dioxins	29.98	29.98	6.682e1	8.640e1	0.630	0.75	YES	0.13583	0.00000
3	2 1,2,3,7,8-PeCDD	31.31	31.33	1.593e2	2.505e2	0.630	0.64	NO	0.38665	0.38665

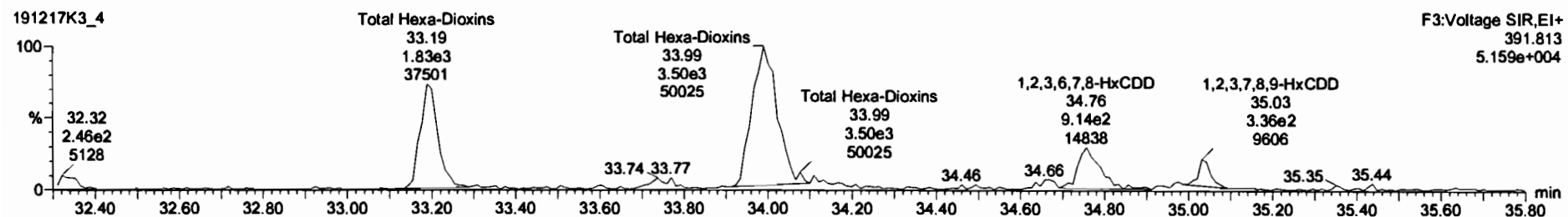
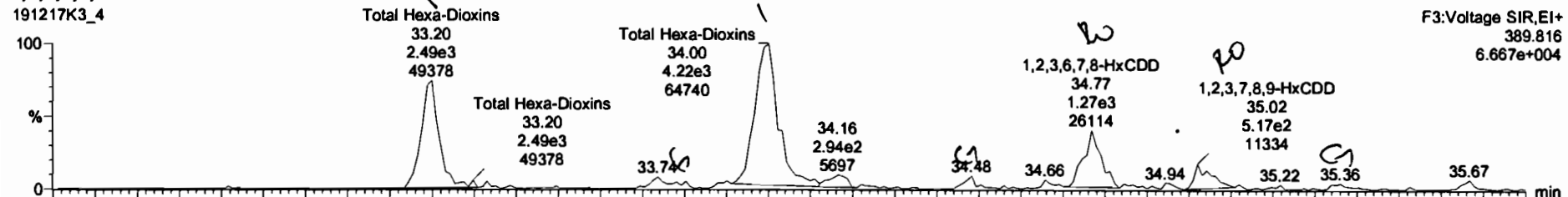


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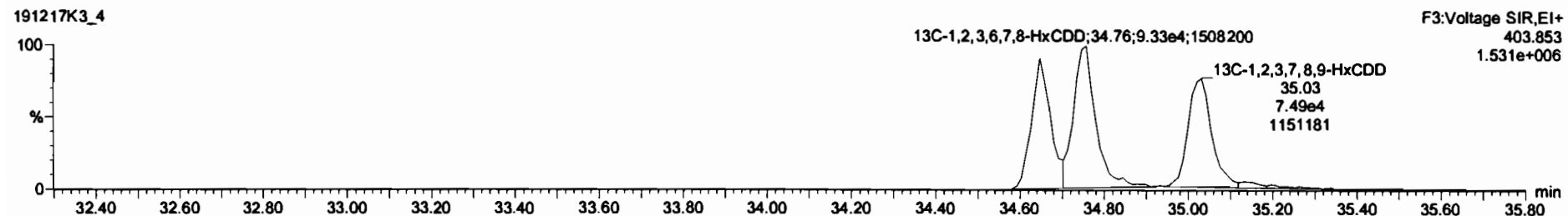
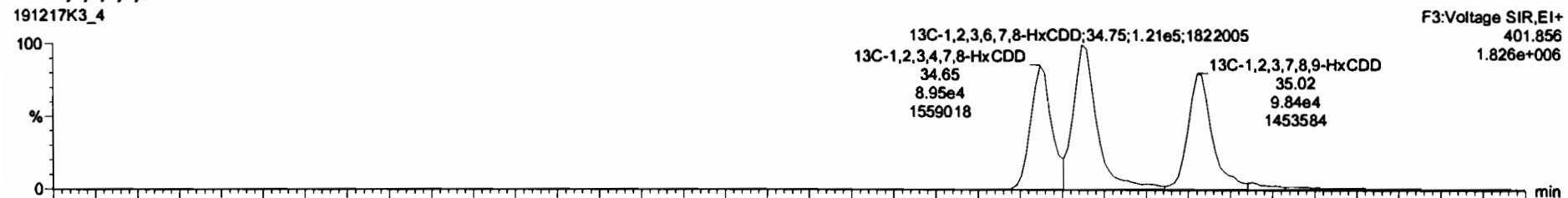
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010

### 1,2,3,4,7,8-HxCDD

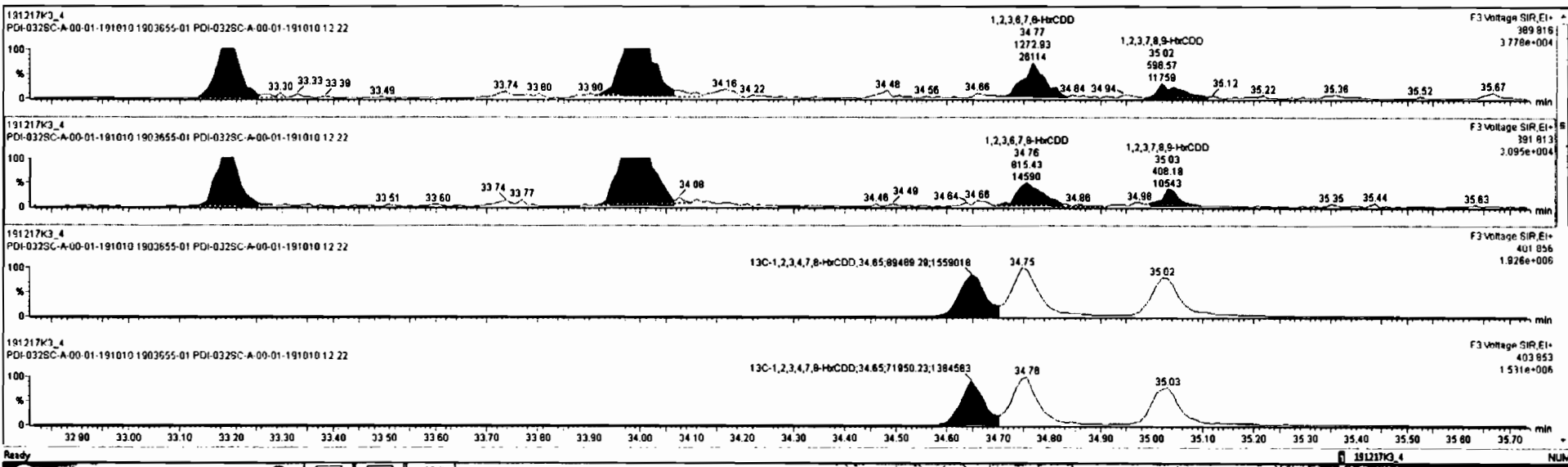


### 13C-1,2,3,4,7,8-HxCDD



#	Name	Resp	IS Resp	ISD	RA	rvy	RWF	wtAdj	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
27	13C-1,2,3,4,7,8-PeCDF	3.51e5	5.82e5	37	1.80	NO		10.004	30.97	30.99	1.218	1.217	NO	180.7	80.4	1.00	
28	13C-1,2,3,4,7,8-HxCDF	2.37e5	3.84e5	38	0.52	NO		10.004	33.77	33.78	0.989	0.989	NO	145.9	73.0	1.83	
29	13C-1,2,3,6,7,8-HxCDF	2.91e5	3.84e5	38	0.52	NO		10.004	33.88	33.90	0.982	0.982	NO	147.2	73.7	1.34	
30	13C-1,2,3,4,6,7,8-HxCDF	2.53e5	3.84e5	38	0.52	NO		10.004	34.46	34.47	1.009	1.009	NO	147.5	73.8	1.54	
31	13C-1,2,3,7,8,9-HxCDF	2.30e5	3.84e5	38	0.53	NO		10.004	35.37	35.36	1.035	1.035	NO	183.1	81.6	1.87	
32	13C-1,2,3,4,6,7,8-HpCDF	2.05e5	3.84e5	38	0.45	NO		10.004	37.08	37.10	1.086	1.085	NO	141.2	70.6	0.880	
33	13C-1,2,3,4,7,8,9-HpCDF	1.40e5	3.84e5	38	0.44	NO		10.004	38.11	38.15	1.146	1.145	NO	134.7	67.4	1.24	
34	13C-OCDF	2.84e5	3.84e5	38	0.87	NO		10.004	41.87	42.00	1.229	1.229	NO	249.0	82.3	1.20	
35	37Cl-1,2,3,7,8-TCDD	1.28e5	3.33e5	38				10.004	28.17	28.18	1.028	1.028	NO	70.81	88.3	0.190	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	rvy	EMPC	Conc.
1	41 Total Hexa-Dioxin	33.83	33.20	2.415e3	1.828e3	1.240	1.32	NO	4.7943	4.7943
2	41 Total Hexa-Dioxin	33.83	34.00	3.034e3	3.512e3	1.240	1.12	NO	8.4128	8.4128
3	4 1,2,3,6,7,8-HxCDD	34.75	34.77	1.273e3	8.154e2	1.240	1.56	YES	1.7639	0.00000
4	5 1,2,3,7,8,9-HxCDD	35.08	35.02	5.988e2	4.082e2	1.240	1.47	YES	1.0736	0.00000



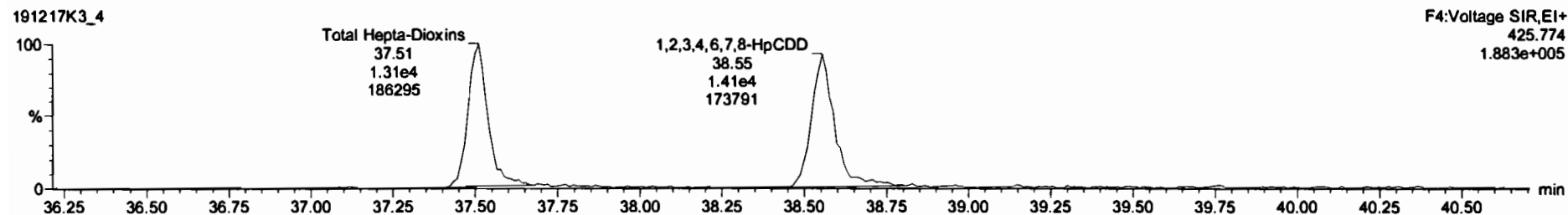
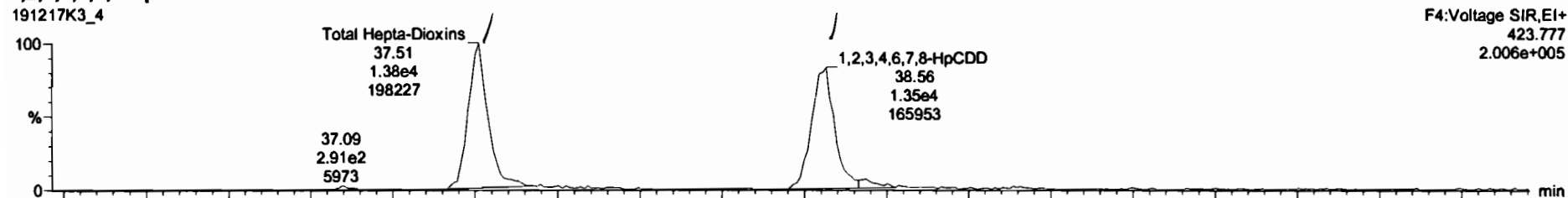
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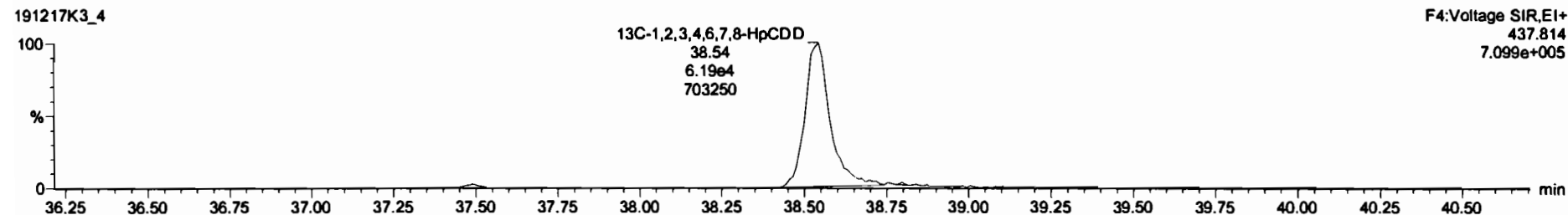
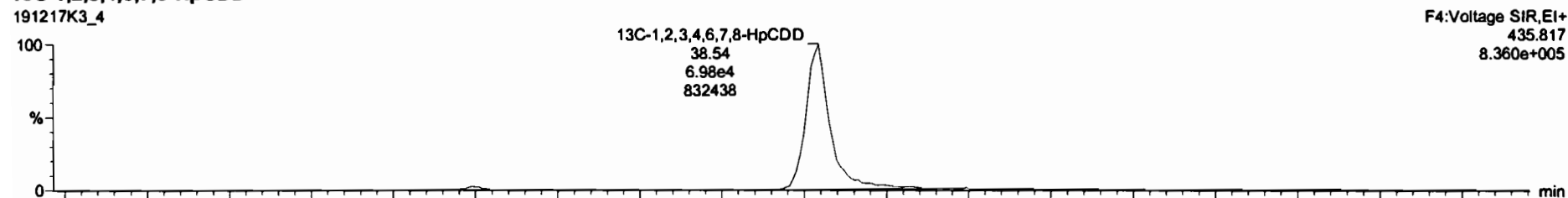
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Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010

1,2,3,4,6,7,8-HpCDD



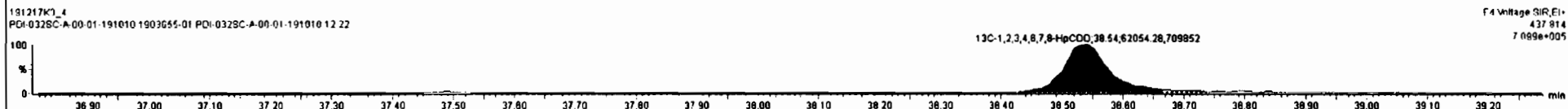
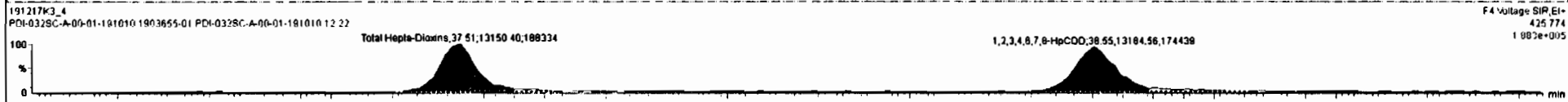
13C-1,2,3,4,6,7,8-HpCDD





#	Name	Resp	IS Resp	ISF	RA	rvy	RRP	wtAvd	Pred.RT	RT	RRT	Pred.RRT	Check.RRT	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins		1.25e4					10.004	38.80			0.000	NO	80.88		8.880	80.88
43	Total Tetra-Furans		4.49e5					10.004	23.61			0.000	NO	27.12		0.281	32.90
44	1st Func. Penta-Furans		0.00e0					10.004	27.04			0.000	NO	2.742		0.0581	2.742
45	Total Penta-Furans		0.00e0					10.004	29.27			0.000	NO	43.03		0.301	43.97
46	Total Hexa-Furans		0.00e0					10.004	33.58			0.000	NO	71.00		0.372	71.00
47	Total Hepta-Furans		0.00e0					10.004	37.83			0.000	NO	82.51		0.685	83.14
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	Pred.RA	RA	rvy	EMPC	Conc.
1	42 Total Hepta-Dioxins	38.80	37.51	1.386e4	1.318e4	1.040	1.05	NO	40.458	40.458
2	6 1,2,3,4,6,7,8-HpCDD	38.55	38.58	1.365e4	1.318e4	1.040	1.04	NO	40.187	40.187



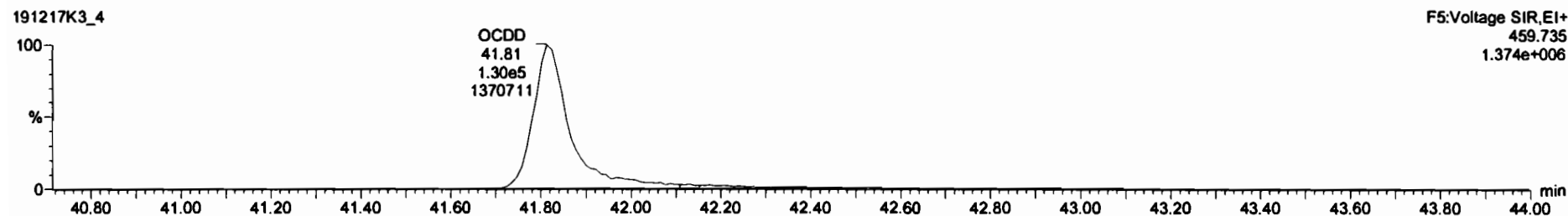
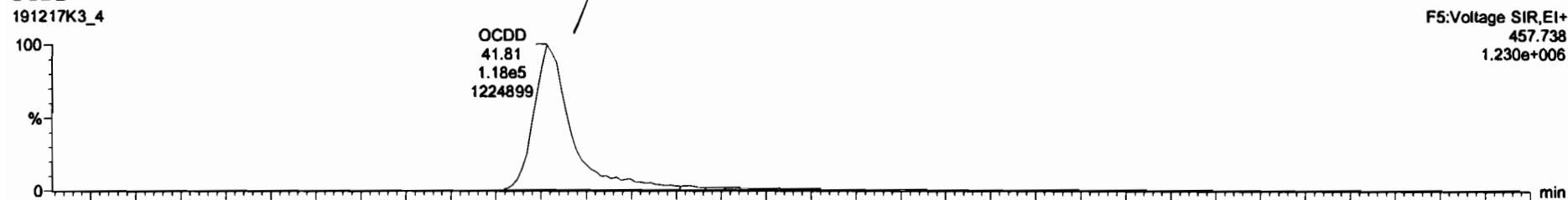
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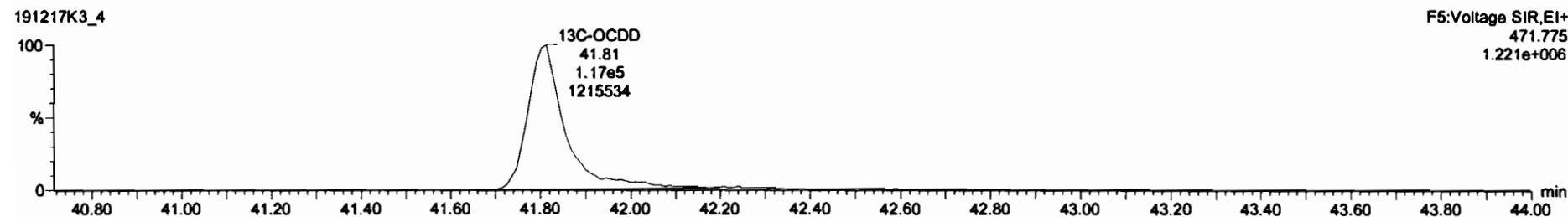
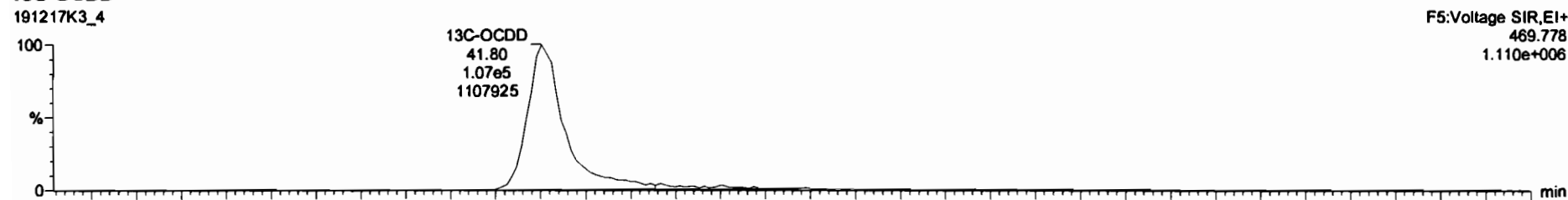
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010

**OCDD**

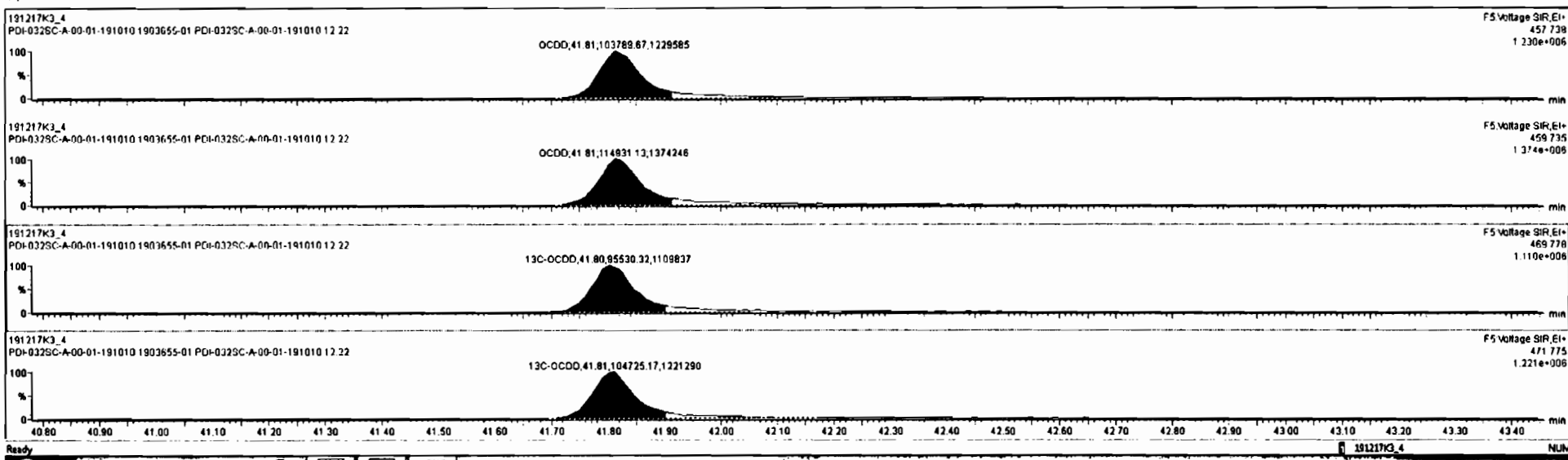


**13C-OCDD**



#	Name	Resp	IS Resp	ISF	RA	rvy	RRT	wtAdj	Pred.RT	RT	RRT	Pred.RRT	Check.RRT	Conc.	%Rec	DL	EMPC
1	1,2,3,7,8-TCDD		2.78e5	18				10.004	28.18			1.001	YES			0.258	
2	1,2,3,7,8-PeCDD		2.34e5	18				10.004	31.31			1.001	YES			0.228	
3	1,2,3,4,7,8-HxCDD		1.61e5	20				10.004	34.68			1.000	YES			0.347	
4	1,2,3,7,8-HxCDD	2.19e3	2.14e5	21	1.38	NO		10.004	34.75	34.77	1.001	1.000	NO	2.112		0.333	2.112
5	1,2,3,7,8-HxCDD	8.53e2	1.73e5	22	1.54	YES		10.004	35.08	35.02	1.000	1.001	NO	1.008		0.416	0.8875
6	1,2,3,4,6,7,8-HpCDD	2.78e4	1.32e5	23	0.98	NO		10.004	38.55	38.56	1.001	1.000	NO	40.29		0.987	40.29
7	1,2,3,4,6,7,8-HpCDD	2.18e4	2.05e5	24	0.88	NO		10.004	41.80	41.81	1.000	1.000	NO	448.4		3.26	448.4
8	1,2,3,7,8-TCDF	2.17e4	4.49e5	25	0.83	NO		10.004	25.20	25.18	1.001	1.001	NO	10.30		0.261	10.30
9	1,2,3,7,8-PeCDF	2.78e4	3.50e5	26	1.53	NO		10.004	30.00	30.00	1.001	1.001	NO	16.29		0.302	16.29
10	1,2,3,4,7,8-PeCDF	1.62e4	3.51e5	27	1.68	NO		10.004	31.02	31.01	1.001	1.001	NO	9.183		0.292	9.183
11	1,2,3,4,7,8-HxCDF	5.52e4	2.37e5	28	1.28	NO		10.004	33.78	33.80	1.001	1.000	NO	37.42		0.336	37.42
12	1,2,3,4,7,8-HxCDF	1.72e4	2.91e5	29	1.33	NO		10.004	33.91	33.91	1.000	1.000	NO	10.80		0.336	10.80
13	1,2,3,4,8,7,8-HxCDF	3.45e3	2.53e5	30	1.12	NO		10.004	34.51	34.49	1.001	1.001	NO	2.308		0.364	2.308

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	Pred.RA	RA	rvy	EMPC	Conc.
1										

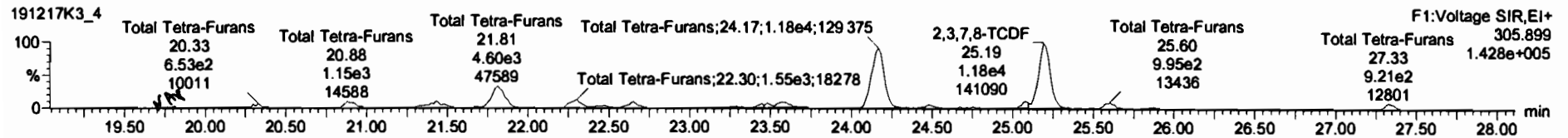
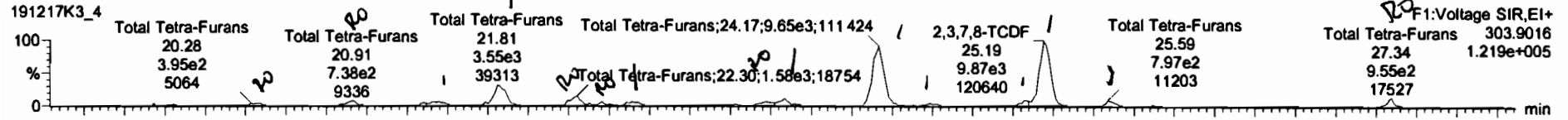


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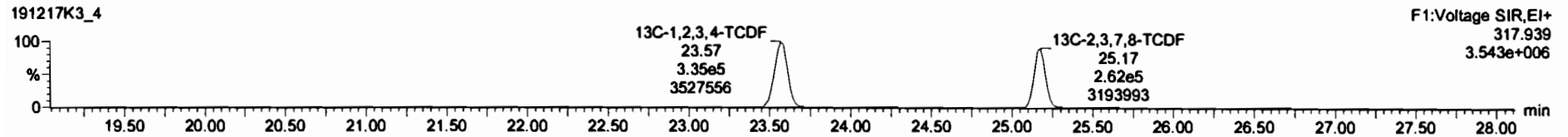
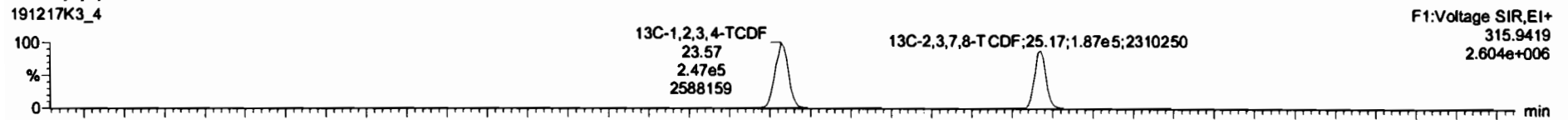
Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010

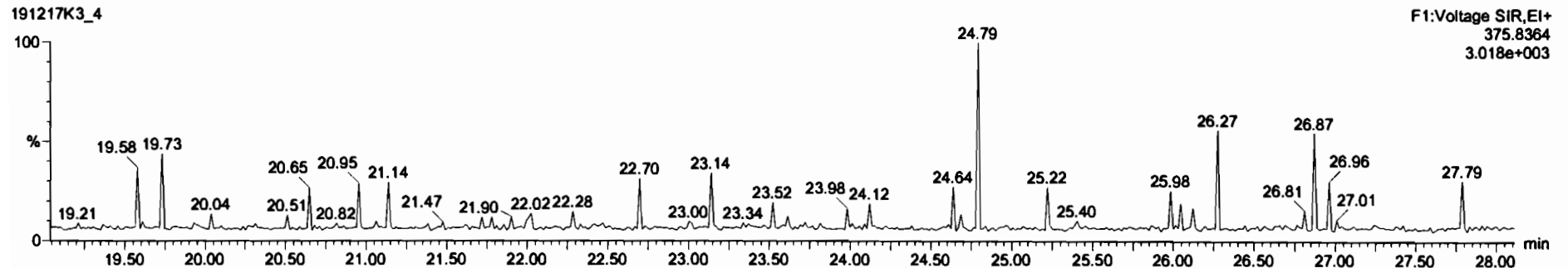
2,3,7,8-TCDF



13C-2,3,7,8-TCDF

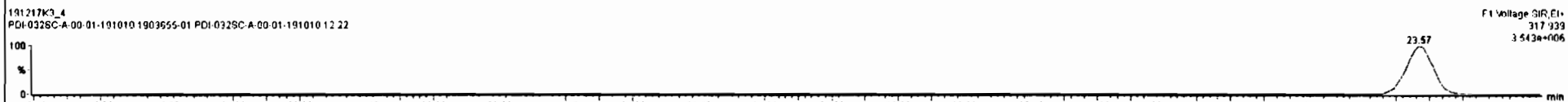
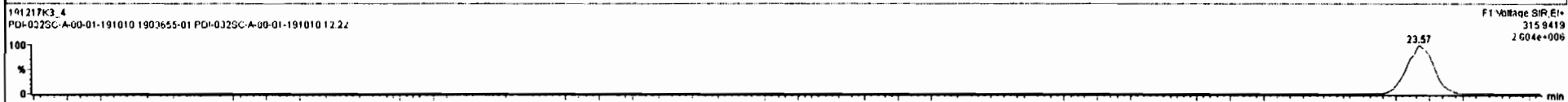
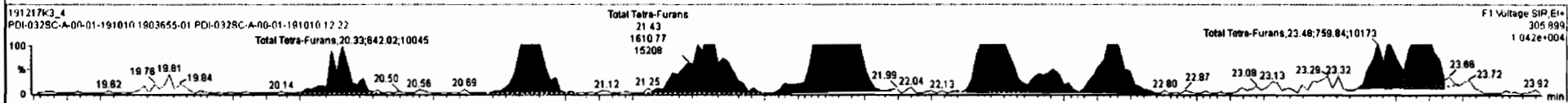
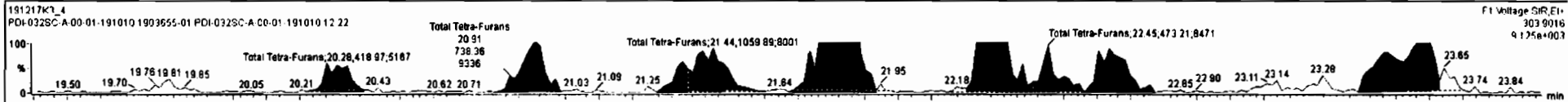


DPE1



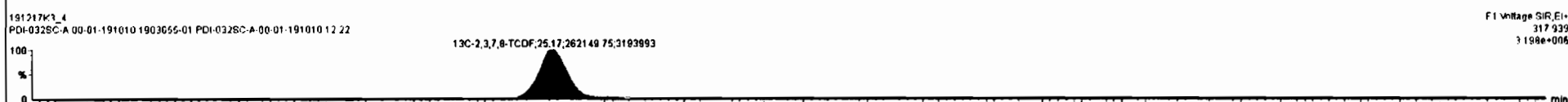
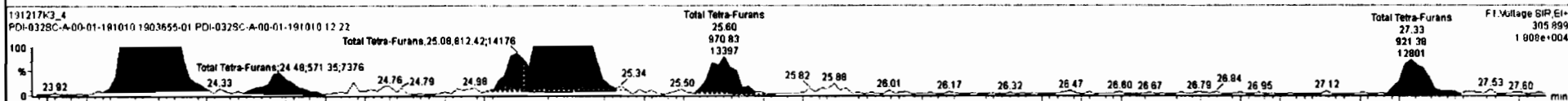
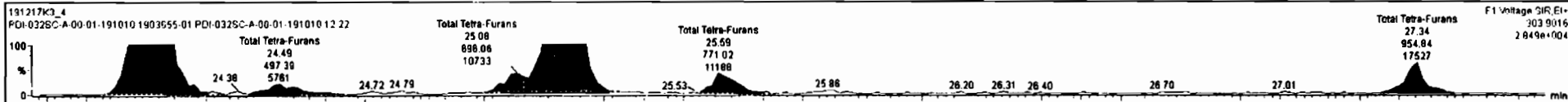
#	Name	Resp	IS Resp	ISF	RA	nly	RRF	wt/vol	Prod RT	RT	RRT	Prod RRT	Check RRT	Conc.	%Rec	DL	ENPC
42	Total Hgta-Dioxina		1.29e5					10.004	38.80			0.000	NO	80.88	0.980	80.88	
43	Total Tetra-Furans		4.68e3					10.004	29.81			0.000	NO	26.32	0.281	29.84	
44	1st Func. Penta-Furans		0.00e0					10.004	27.04			0.000	NO	2.742	0.0581	2.742	
45	Total Penta-Furans		0.00e0					10.004	28.27			0.000	NO	43.03	0.301	43.97	
46	Total Hexa-Furans		0.00e0					10.004	33.58			0.000	NO	71.00	0.372	71.00	
47	Total Hgta-Furans		0.00e0					10.004	37.83			0.000	NO	62.51	0.685	83.14	
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																

#	Name	Prod RT	RT	m1 Resp	m2 Resp	Prod RA	RA	nly	ENPC	Conc.
1	Total Tetra-Furans	23.81	20.28	4.190e2	6.420e2	0.770	0.85	YES	0.45887	0.00000
2	Total Tetra-Furans	23.81	20.81	7.384e2	1.132e3	0.770	0.85	YES	0.80516	0.00000
3	Total Tetra-Furans	23.81	21.44	1.060e3	1.611e3	0.770	0.68	NO	1.2669	1.2669
4	Total Tetra-Furans	23.81	21.81	3.618e3	4.598e3	0.770	0.79	NO	3.8983	3.8983
5	Total Tetra-Furans	23.81	22.30	1.519e3	1.533e3	0.770	0.99	YES	1.2875	0.00000
6	Total Tetra-Furans	23.81	22.45	4.732e2	4.228e2	0.770	1.12	YES	0.35511	0.00000
7	Total Tetra-Furans	23.81	22.64	7.788e2	1.043e3	0.770	0.74	NO	0.86347	0.86347
8	Total Tetra-Furans	23.81	23.46	7.092e2	7.598e2	0.770	0.93	YES	0.83801	0.00000
9	Total Tetra-Furans	23.81	23.58	8.652e2	1.040e3	0.770	0.83	NO	0.90389	0.90389



#	Name	Resp	IS Resp	ISF	RA	n/y	PPF	wtVol	Pred RT	RT	PRT	Pred PRT	Check PRT	Conc.	%Rec	DL	ELPC
42	Total Hepta-Dioxina		1.20e5					10.004	38.80			0.000	NO	80.68		0.980	80.88
43	Total Tetra-Furans		4.00e3					10.004	23.81			0.000	NO	28.32		0.381	33.84
44	1st Func. Penta-Furans		0.00e0					10.004	27.04			0.000	NO	2.742		0.0581	2.742
45	Total Penta-Furans		0.00e0					10.004	28.27			0.000	NO	43.03		0.301	43.97
46	Total Hexa-Furans		0.00e0					10.004	33.58			0.000	NO	71.00		0.372	71.00
47	Total Hepta-Furans		0.00e0					10.004	37.83			0.000	NO	62.51		0.686	63.14
48	PPK1																
49	PPK2																
50	PPK3																
51	PPK4																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	ELPC	Conc.
2	Total Tetra-Furans	23.81	20.91	7.284e2	1.132e3	0.770	0.85	YES	0.80516	0.00000
3	Total Tetra-Furans	23.81	21.44	1.080e3	1.811e3	0.770	0.86	NO	1.2869	1.2869
4	Total Tetra-Furans	23.81	21.81	3.618e3	4.588e3	0.770	0.79	NO	3.8983	3.8983
5	Total Tetra-Furans	23.81	22.30	1.519e3	1.533e3	0.770	0.89	YES	1.2875	0.00000
6	Total Tetra-Furans	23.81	22.45	4.732e2	4.228e2	0.770	1.12	YES	0.35511	0.00000
7	Total Tetra-Furans	23.81	22.84	7.788e2	1.043e3	0.770	0.74	NO	0.86347	0.86347
8	Total Tetra-Furans	23.81	23.48	7.093e2	7.588e2	0.770	0.93	YES	0.63801	0.00000
9	Total Tetra-Furans	23.81	23.98	8.852e2	1.040e3	0.770	0.83	NO	0.90388	0.90388
10	Total Tetra-Furans	23.81	24.17	9.588e3	1.180e4	0.770	0.81	NO	10.152	10.152



Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

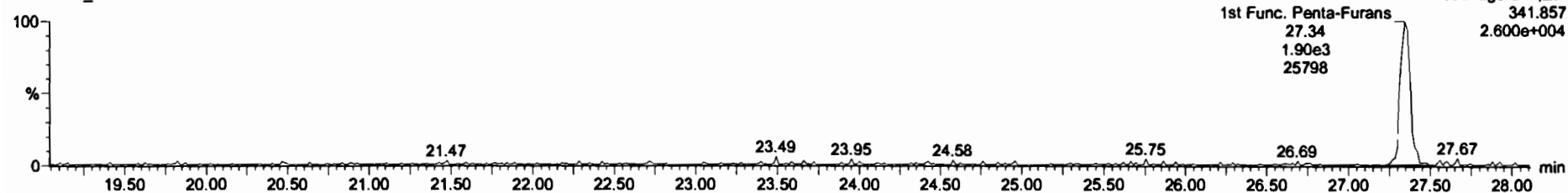
Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010

1st Func. Penta-Furans

191217K3\_4

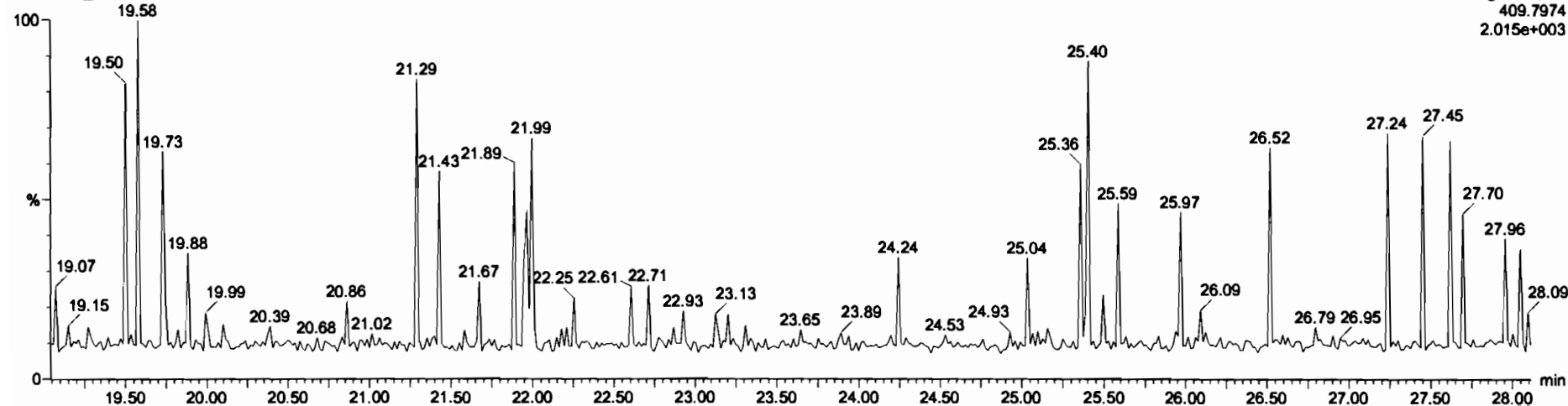


191217K3\_4



DPE6

191217K3\_4

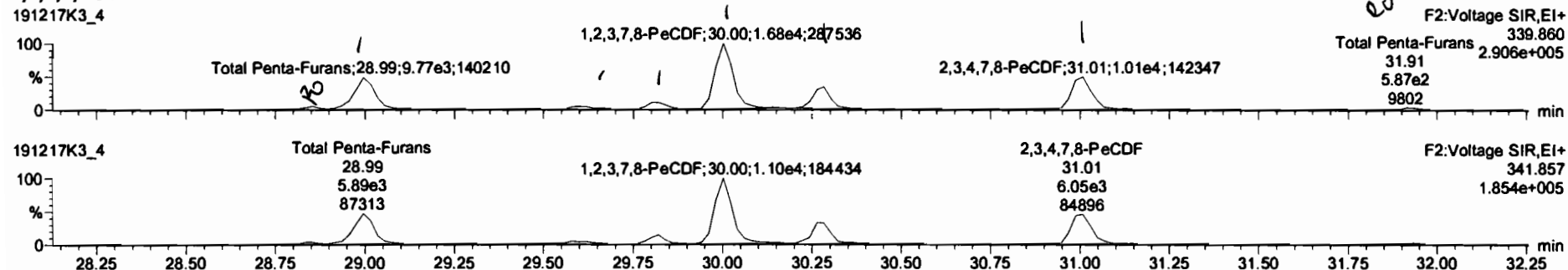


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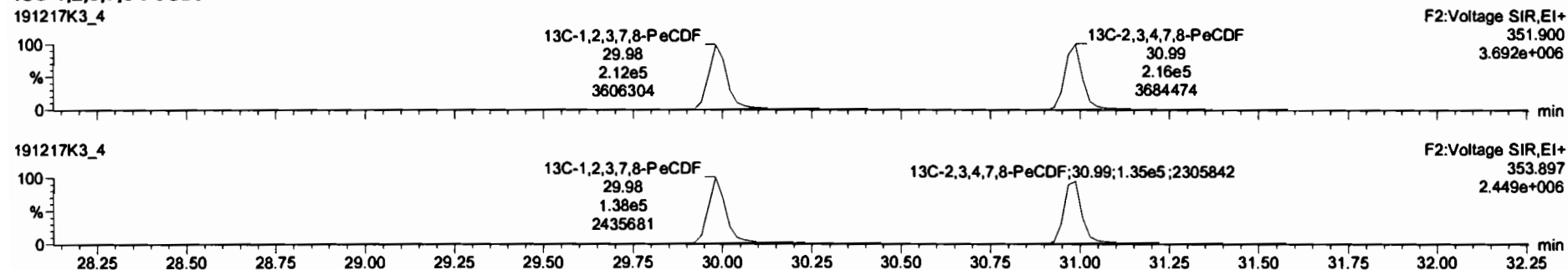
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010

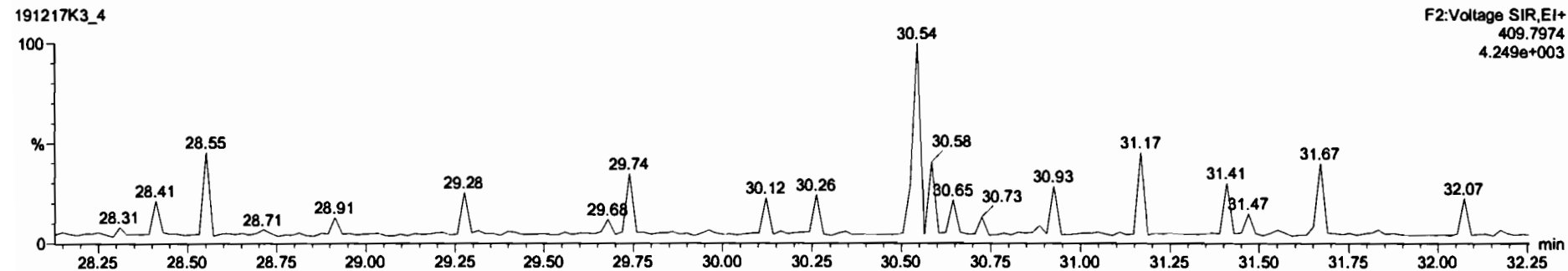
**1,2,3,7,8-PeCDF**



**13C-1,2,3,7,8-PeCDF**



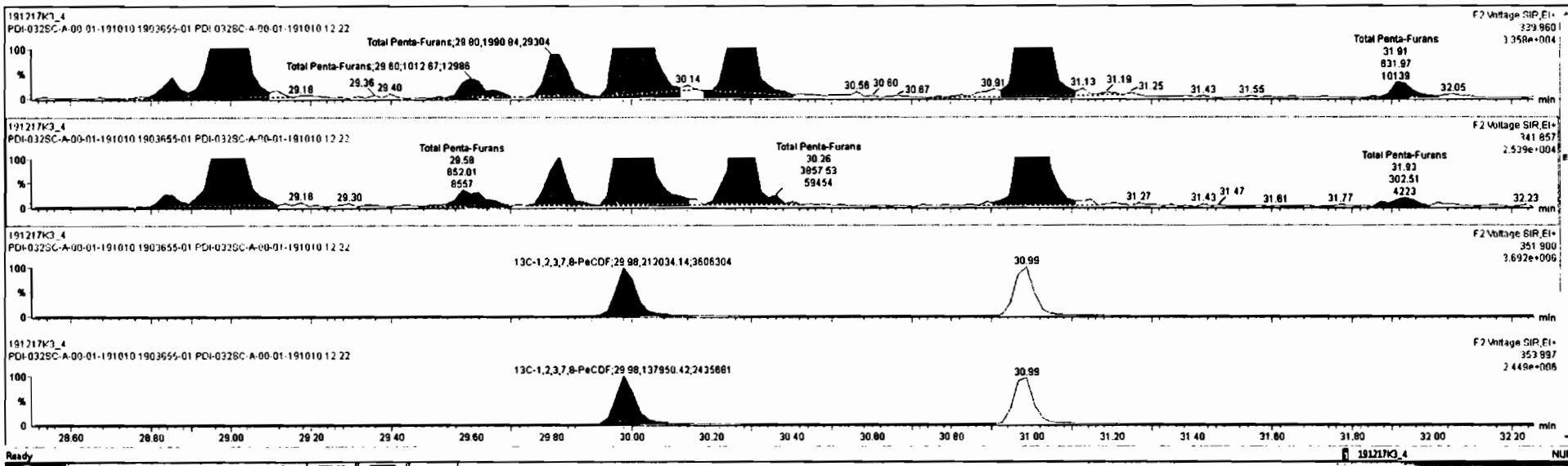
**DPE2**





#	Name	Resp	IS Resp	ISL	RA	rvy	RRT	wtAval	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins		1.29e5					10.004	36.80			0.000	NO	80.66	0.980	80.66	
43	Total Tetra-Furans		4.49e5					10.004	23.61			0.000	NO	26.32	0.281	33.84	
44	1st Func. Penta-Furans		0.00e0					10.004	27.04			0.000	NO	2.742	0.0591	2.742	
45	Total Penta-Furans		0.00e0					10.004	26.27			0.000	NO	43.46	0.301	44.46	
46	Total Hexa-Furans		0.00e0					10.004	33.36			0.000	NO	71.00	0.372	71.00	
47	Total Hepta-Furans		0.00e0					10.004	37.83			0.000	NO	62.51	0.685	63.14	
48	PFK1																
49	PFK2																
50	PFK3																
41	100%																

#	Name	Pred.RT	RT	int Resp	int Resp	Pred RA	RA	rvy	EMPC	Conc.
1	45 Total Penta-Furans	29.27	29.85	7.095e2	3.993e2	1.550	1.97	YES	0.53555	0.00000
2	45 Total Penta-Furans	29.27	29.86	9.778e3	6.090e3	1.550	1.61	NO	9.2757	9.2757
3	45 Total Penta-Furans	29.27	29.80	1.013e3	6.520e2	1.550	1.55	NO	0.87305	0.87305
4	45 Total Penta-Furans	29.27	29.80	1.991e3	1.415e3	1.550	1.41	NO	1.9908	1.9908
5	9 1,2,3,7,8-PeCDF	30.00	30.00	1.728e4	1.091e4	1.550	1.58	NO	16.483	16.483
6	45 Total Penta-Furans	29.27	30.26	6.278e3	3.859e3	1.550	1.63	NO	5.8234	5.8234
7	10 2,3,4,7,8-PeCDF	31.02	31.01	9.842e3	5.910e3	1.550	1.63	NO	8.8216	8.8216
8	45 Total Penta-Furans	29.27	31.91	6.330e2	3.025e2	1.550	2.09	YES	0.45080	0.00000



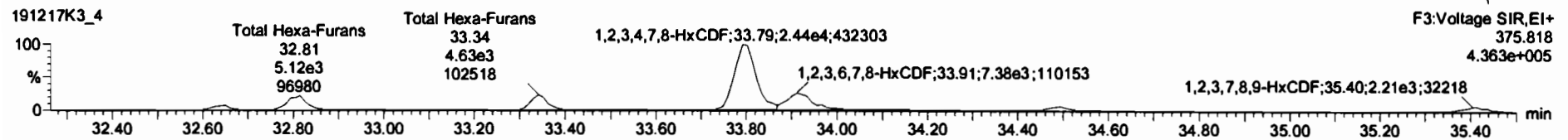
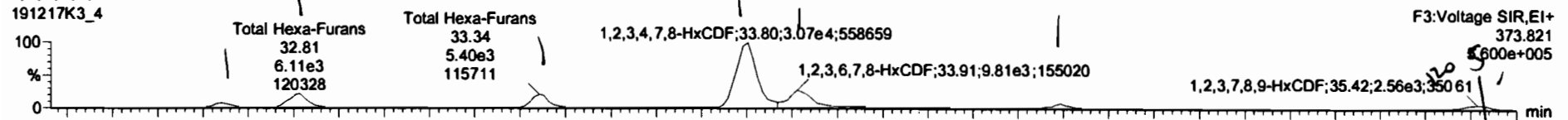
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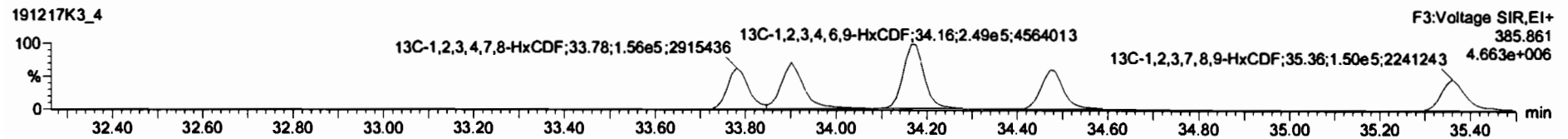
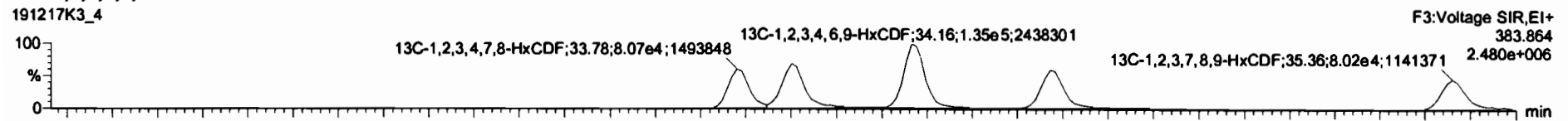
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010

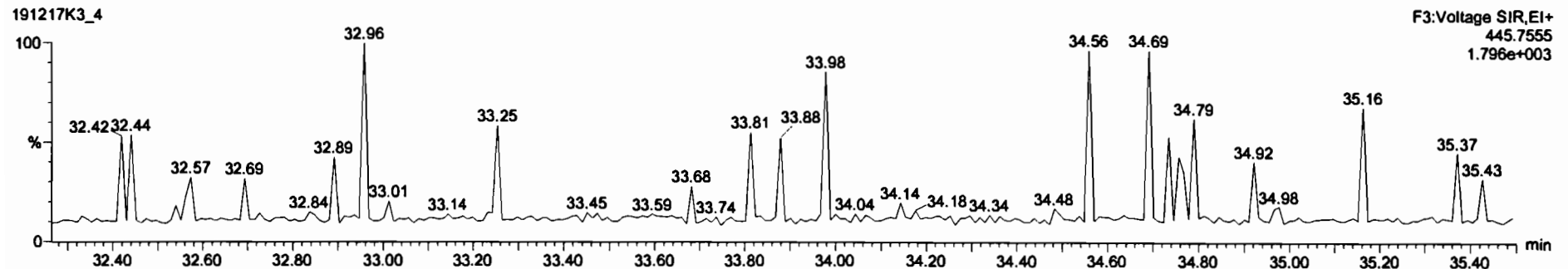
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF

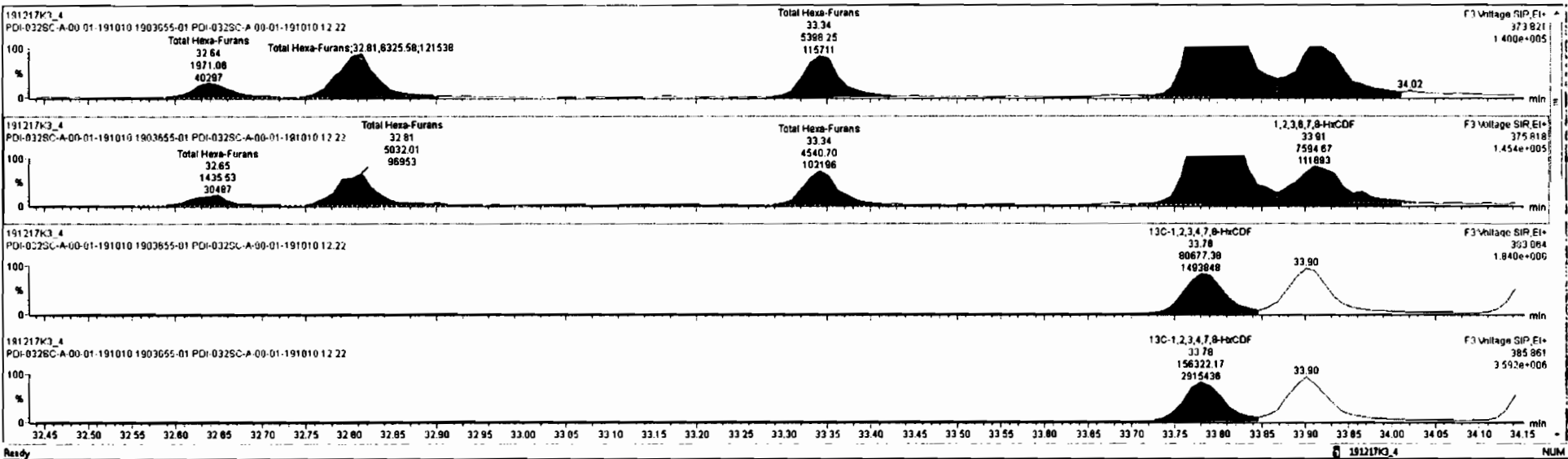


DPE3



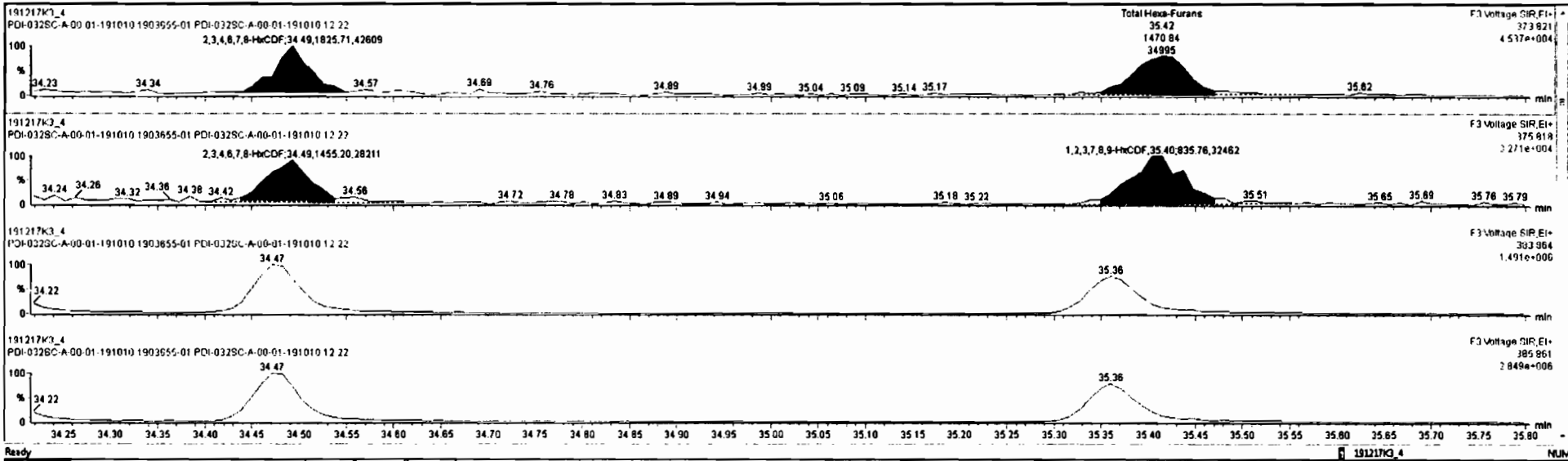
#	Name	Resp	IS Resp	Std	RA	n/y	RFV	wVal	Prod.RT	RT	RRT	Prod.RRT	Check.RRT	Conc.	%Rec	DL	EMPC
42	Total Hexa-Furans		1.29e5					10.004	38.80			0.000	NO	80.88		0.980	80.88
43	Total Tetra-Furans		4.48e5					10.004	23.81			0.000	NO	26.32		0.261	33.64
44	1st Func. Penta-Furans		0.00e0					10.004	27.04			0.000	NO	2.742		0.0581	2.742
45	Total Penta-Furans		0.00e0					10.004	29.27			0.000	NO	43.48		0.301	44.48
46	Total Hexa-Furans		0.00e0					10.004	33.96			0.000	NO	87.38		0.372	78.40
47	Total Hexa-Furans		0.00e0					10.004	37.83			0.000	NO	62.51		0.685	63.14
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																

#	Name	Prod.RT	RT	rt Resp	m2 Resp	Prod.RA	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	33.98	32.84	1.971e3	1.438e3	1.240	1.37	NO	2.2824	2.2824
2	Total Hexa-Furans	33.58	32.81	6.328e3	5.032e3	1.240	1.26	NO	7.8085	7.8085
3	Total Hexa-Furans	33.98	33.34	5.388e3	4.541e3	1.240	1.19	NO	6.6590	6.6590
4	1,2,3,4,7,8-HxCDF	33.78	33.80	3.078e4	2.454e4	1.240	1.25	NO	37.512	37.512
5	1,2,3,6,7,8-HxCDF	33.91	33.91	1.008e4	7.395e3	1.240	1.33	NO	11.102	11.102
6	1,2,3,4,6,7,8-HxCDF	34.51	34.48	1.828e3	1.455e3	1.240	1.25	NO	2.1844	2.1844
7	1,2,3,7,8,9-HxCDF	35.38	35.40	8.708e2	8.358e2	1.240	1.04	YES	1.2731	0.00000
8	Total Hexa-Furans	33.58	35.42	1.471e3	1.173e3	1.240	1.25	NO	1.7717	0.00000



#	Name	Resp	IS Resp	ISF	RA	rvy	RRF	wtAcl	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxine		1.29e5					10.004	38.80			0.000	NO	80.88		0.980	80.88
43	Total Tetra-Furane		4.48e5					10.004	23.81			0.000	NO	28.32		0.281	33.84
44	1st Func. Penta-Furane		0.00e0					10.004	27.04			0.000	NO	2.742		0.0581	2.742
45	Total Penta-Furane		0.00e0					10.004	29.27			0.000	NO	43.48		0.301	44.46
46	Total Hexa-Furane		0.65e0					10.004	33.98			0.000	NO	87.38		0.372	70.40
47	Total Hepta-Furane		0.00e0					10.004	37.83			0.000	NO	62.51		0.685	83.14
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	rvy	EMPC	Conc.
1	46 Total Hexa-Furans	33.58	32.84	1.971e3	1.438e3	1.240	1.37	NO	2.2824	2.2824
2	46 Total Hexa-Furans	33.58	32.81	6.328e3	5.032e3	1.240	1.26	NO	7.8085	7.8085
3	46 Total Hexa-Furans	33.58	33.34	5.398e3	4.541e3	1.240	1.19	NO	6.6590	6.6590
4	11 1,2,3,4,7,8-HxCDF	33.78	33.80	3.078e4	2.454e4	1.240	1.25	NO	37.512	37.512
6	12 1,2,3,6,7,8-HxCDF	33.91	33.91	1.009e4	7.595e3	1.240	1.33	NO	11.102	11.102
8	13 2,3,4,6,7,8-HxCDF	34.51	34.48	1.828e3	1.455e3	1.240	1.25	NO	2.1944	2.1944
7	14 1,2,3,7,8-HxCDF	35.38	35.40	8.708e2	6.358e2	1.240	1.04	YES	1.2731	0.00000
8	46 Total Hexa-Furans	33.58	35.42	1.471e3	1.173e3	1.240	1.25	NO	1.7717	0.00000

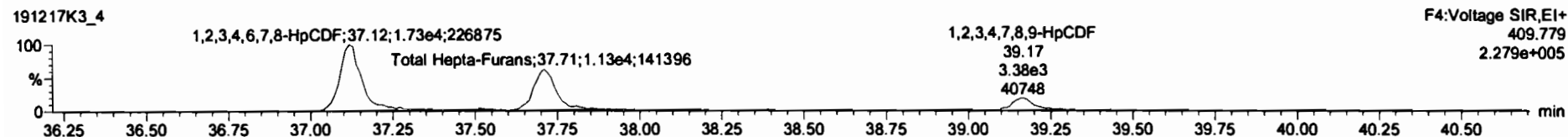
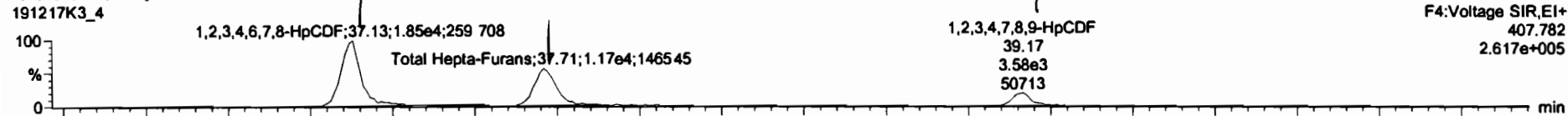


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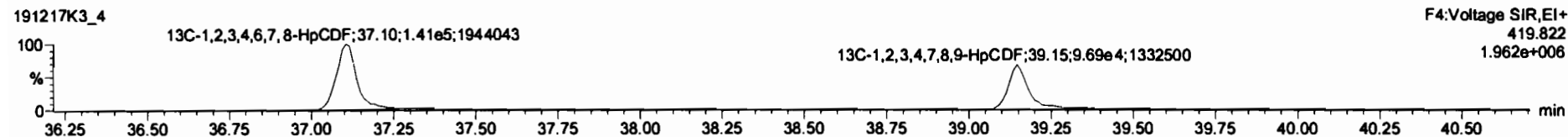
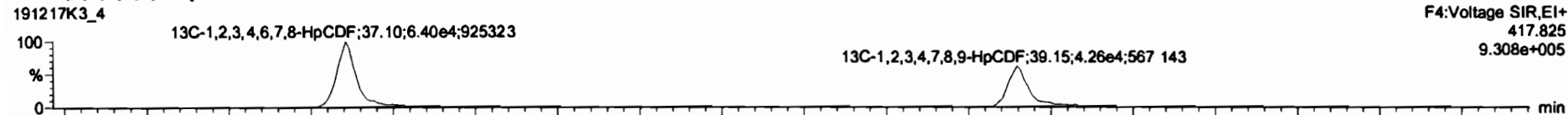
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010

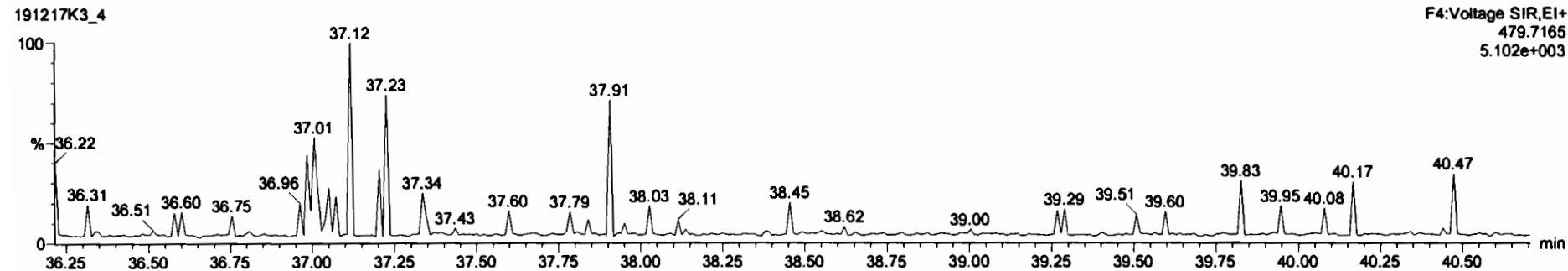
**1,2,3,4,6,7,8-HpCDF**



**13C-1,2,3,4,6,7,8-HpCDF**

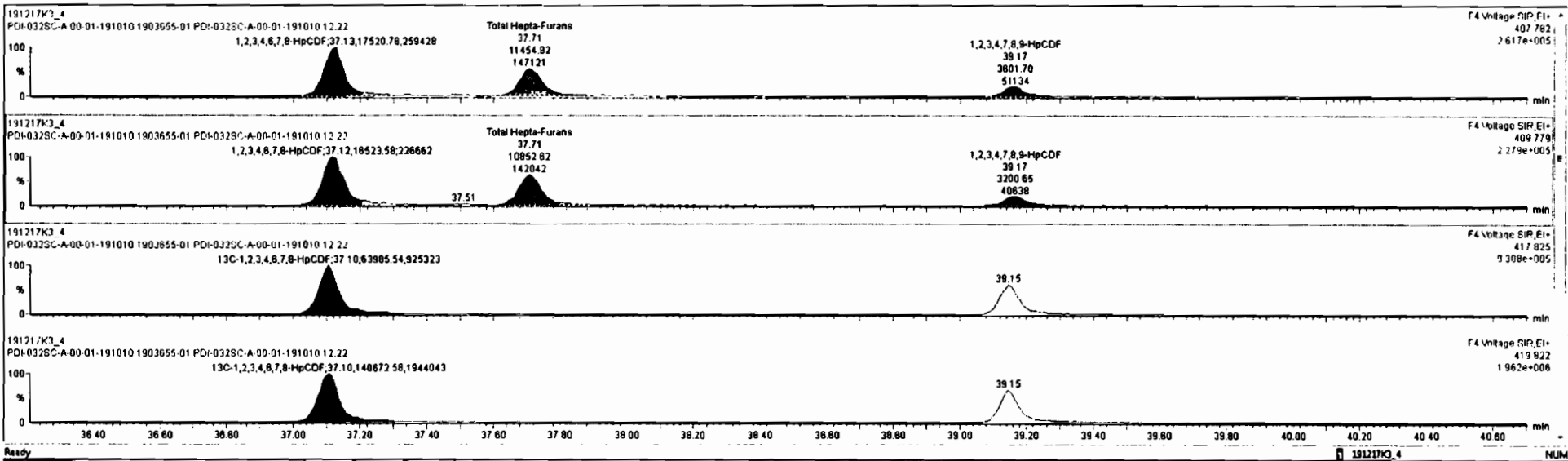


**DPE4**



#	Name	Resp	IS Resp	ISP	RA	n/y	RPF	wtVol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxine		1.29e5					10.004	38.80			0.000	NO	80.68		0.980	80.86
43	Total Tetra-Furans		4.48e5					10.004	23.81			0.000	NO	28.32		0.281	33.84
44	1st Func. Penta-Furans		0.00e0					10.004	27.04			0.000	NO	2.742		0.0581	2.742
45	Total Penta-Furans		0.00e0					10.004	29.27			0.000	NO	43.48		0.301	44.48
46	Total Hexa-Furans		0.00e0					10.004	33.58			0.000	NO	67.36		0.372	70.40
47	Total Hepta-Furans		0.00e0					10.004	37.83			0.000	NO	80.08		0.686	80.08
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	37.14	37.13	1.752e4	1.852e4	1.040	1.06	NO	28.430	28.430
2	Total Hepta-Furans	37.83	37.71	1.145e4	1.085e4	1.040	1.06	NO	22.834	23.834
3	1,2,3,4,7,8,9-HpCDF	39.15	39.17	3.602e3	3.201e3	1.040	1.13	NO	7.7301	7.7301

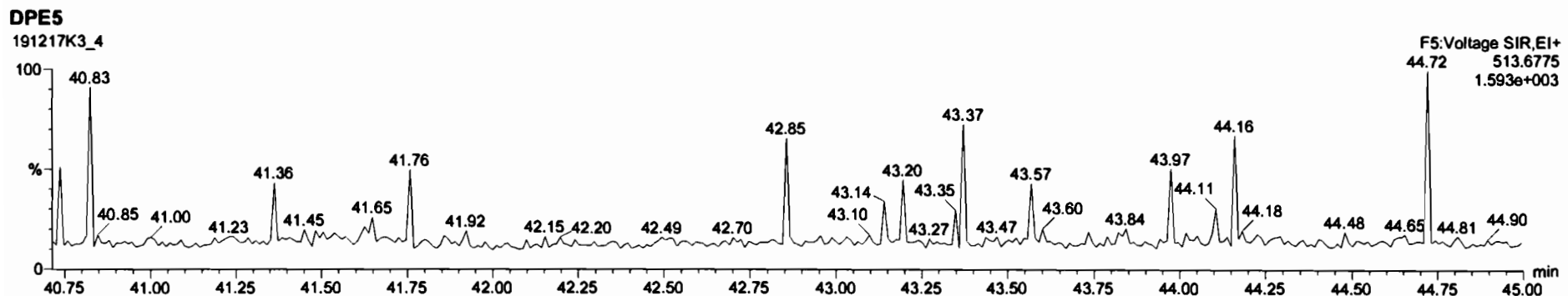
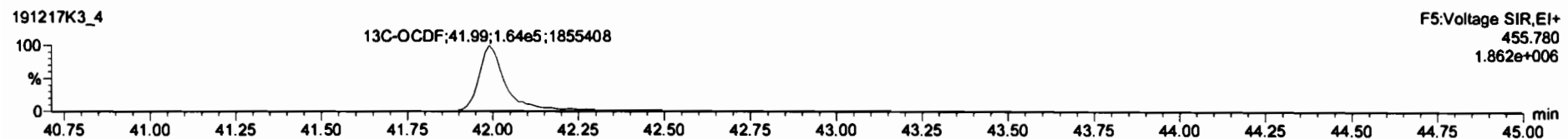
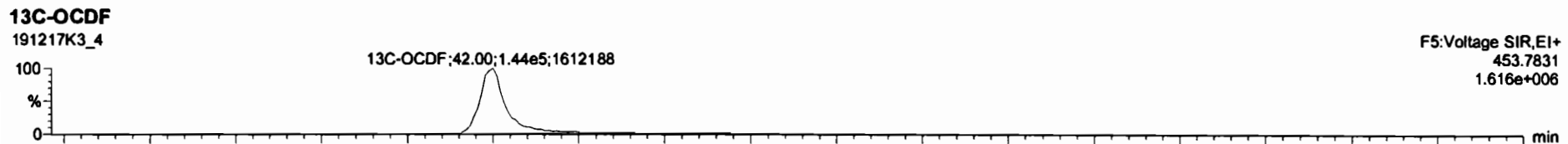
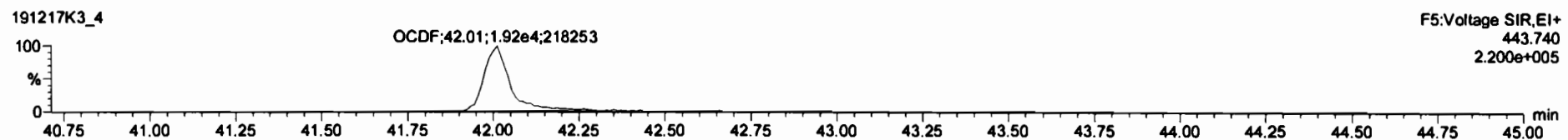
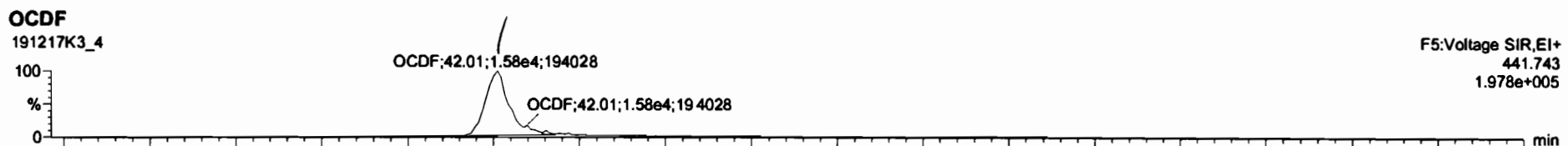


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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

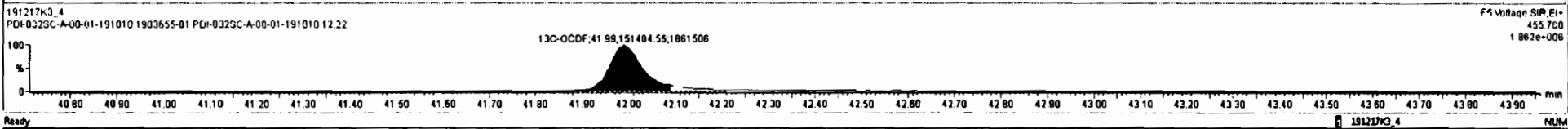
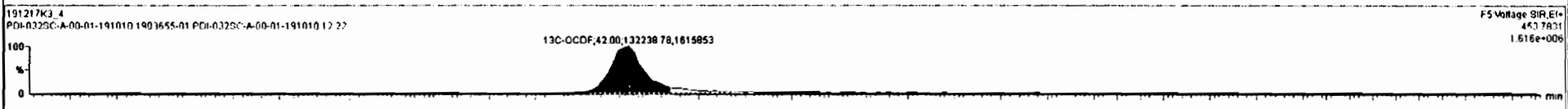
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Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010



#	Name	Resp	IS Resp	ISF	RA	n/y	FWF	wtVol	Pred RT	RT	RWT	Pred RWT	Check RWT	Conc.	%Rec	DL	EMPC
9	1,2,3,7,8-PeCDF	2.78e4	3.50e5	26	1.53	NO		10.004	30.00	30.00	1.001	1.001	NO	16.29		0.302	16.29
10	2,3,4,7,8-PeCDF	1.82e4	3.51e5	27	1.89	NO		10.004	31.02	31.01	1.001	1.001	NO	9.163		0.292	9.163
11	1,2,3,4,7,8-HxCDF	5.52e4	2.37e5	28	1.26	NO		10.004	33.78	33.80	1.001	1.000	NO	37.42		0.336	37.42
12	1,2,3,6,7,8-HxCDF	1.72e4	2.91e5	29	1.30	NO		10.004	33.91	33.91	1.000	1.000	NO	10.80		0.339	10.80
13	2,3,4,6,7,8-HxCDF	3.45e3	2.53e5	30	1.12	NO		10.004	34.51	34.49	1.001	1.001	NO	2.308		0.364	2.308
14	1,2,3,7,8-HxCDF	4.77e3	2.30e5	31	1.16	NO		10.004	35.36	35.42	1.002	1.000	NO	3.865		0.522	3.865
16	15 1,2,3,4,6,7,8-HpCDF	3.58e4	2.05e5	32	1.06	NO		10.004	37.14	37.13	1.001	1.001	NO	30.95		0.552	30.95
18	16 1,2,3,4,7,8-HpCDF	6.07e3	1.40e5	33	1.08	NO		10.004	39.15	39.17	1.001	1.000	NO	7.919		0.789	7.919
17	OCDF	3.28e4	2.87e5	34	0.89	NO		10.004	42.00	42.01	1.000	1.000	NO	42.07		0.816	42.07
18	13C-2,3,7,8-TCDD	2.78e5	3.33e5	36	0.78	NO		10.004	26.15	26.15	1.026	1.027	NO	158.1	75.1	0.783	
19	13C-1,2,3,7,8-PeCDD	2.34e5	3.33e5	36	0.85	NO		10.004	31.29	31.29	1.228	1.230	NO	189.4	94.7	1.26	
20	13C-1,2,3,6,7,8-HxCDD	1.81e5	3.84e5	36	1.24	NO		10.004	34.64	34.65	1.014	1.014	NO	130.0	85.0	1.18	
21	13C-1,2,3,6,7,8-HxCDD	2.14e5	3.84e5	36	1.29	NO		10.004	34.73	34.75	1.017	1.017	NO	143.3	71.7	0.979	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1										



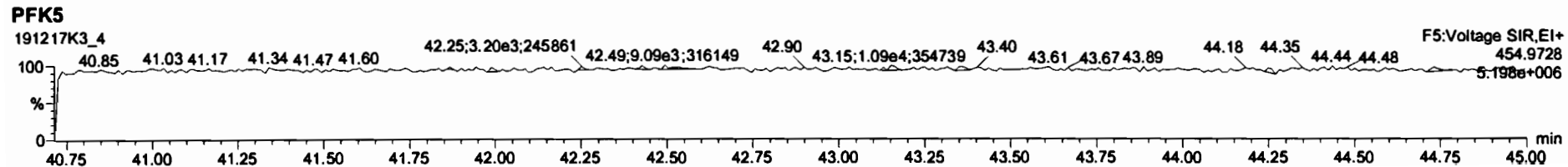
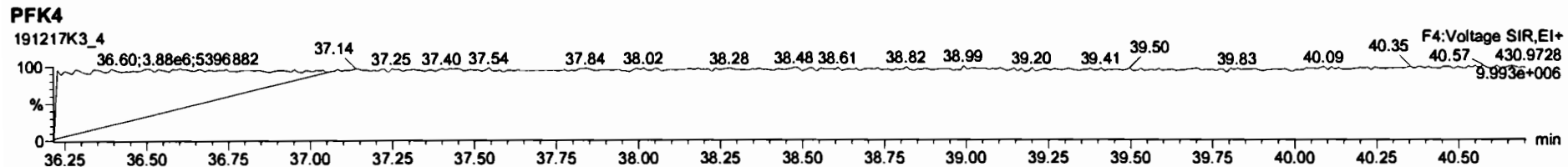
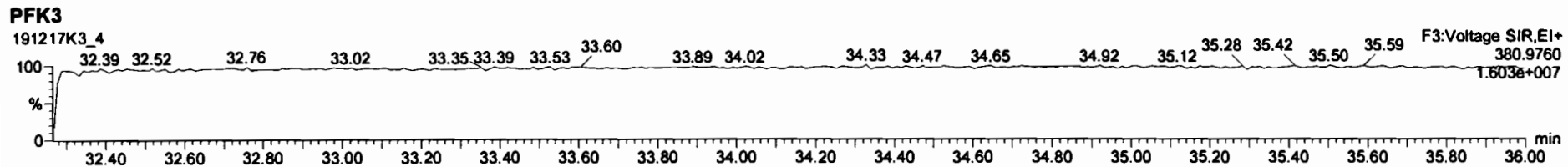
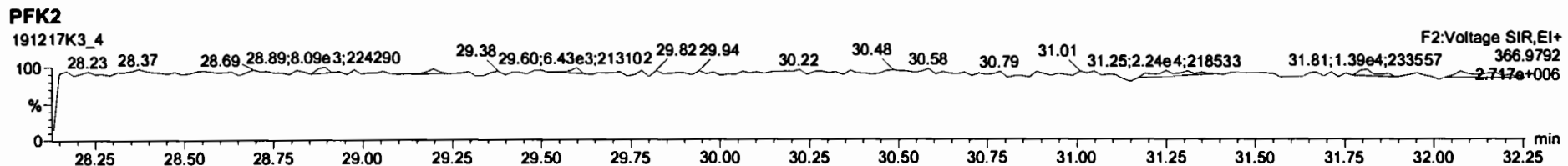
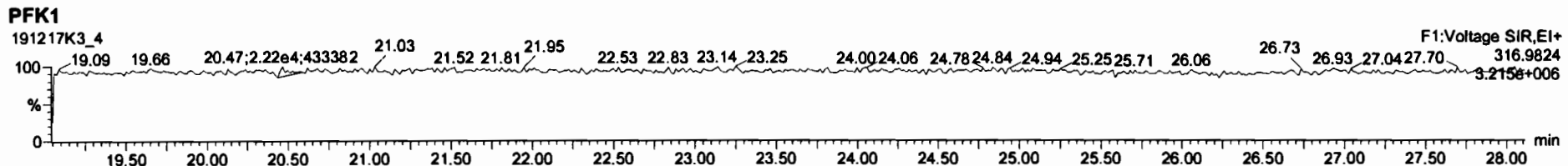


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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_4, Date: 18-Dec-2019, Time: 04:30:11, ID: 1903655-01 PDI-032SC-A-00-01-191010 12.22, Description: PDI-032SC-A-00-01-191010



Dataset: U:\VG11.PRO\Results\191217K3\191217K3-5.qld

Last Altered: Monday, December 23, 2019 12:19:06 Pacific Standard Time

Printed: Monday, December 23, 2019 12:20:27 Pacific Standard Time

*H* 12-23-19

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1/6/20

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_5, Date: 18-Dec-2019, Time: 05:18:35, ID: 1903655-02 PDI-032SC-A-11-12-191010 11.52, Description: PDI-032SC-A-11-12-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.925	10.051	26.199		1.001				0.132	
2	2 1,2,3,7,8-PeCDD			NO	0.905	10.051	31.331		1.001				0.103	
3	3 1,2,3,4,7,8-HxCDD			NO	1.07	10.051	34.668		1.000				0.230	
4	4 1,2,3,6,7,8-HxCDD			NO	0.967	10.051	34.768		1.000				0.208	
5	5 1,2,3,7,8,9-HxCDD			NO	0.978	10.051	35.066		1.001				0.240	
6	6 1,2,3,4,6,7,8-HpCDD	1.78e3	0.96	NO	1.04	10.051	38.554	38.58	1.000	1.001	1.9152		0.332	1.92
7	7 OCDD	2.42e4	0.90	NO	0.972	10.051	41.824	41.85	1.000	1.001	32.998		0.937	33.0
8	8 2,3,7,8-TCDF			NO	0.938	10.051	25.214		1.001				0.0680	
9	9 1,2,3,7,8-PeCDF			NO	0.976	10.051	30.022		1.001				0.0491	
10	10 2,3,4,7,8-PeCDF			NO	1.00	10.051	31.018		1.001				0.0428	
11	11 1,2,3,4,7,8-HxCDF			NO	1.24	10.051	33.791		1.000				0.0348	
12	12 1,2,3,6,7,8-HxCDF			NO	1.10	10.051	33.922		1.000				0.0382	
13	13 2,3,4,6,7,8-HxCDF			NO	1.18	10.051	34.516		1.001				0.0398	
14	14 1,2,3,7,8,9-HxCDF			NO	1.07	10.051	35.371		1.000				0.0604	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.13	10.051	37.153		1.001				0.0651	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.26	10.051	39.168		1.000				0.0862	
17	17 OCDF			NO	1.10	10.051	42.032		1.000				0.146	
18	18 13C-2,3,7,8-TCDD	3.63e5	0.81	NO	1.05	10.051	26.163	26.17	1.027	1.028	180.23	90.6	0.493	
19	19 13C-1,2,3,7,8-PeCDD	3.09e5	0.64	NO	0.743	10.051	31.309	31.31	1.230	1.229	216.46	109	0.965	
20	20 13C-1,2,3,4,7,8-HxCDD	2.02e5	1.25	NO	0.646	10.051	34.658	34.66	1.014	1.014	144.59	72.7	0.903	
21	21 13C-1,2,3,6,7,8-HxCDD	2.72e5	1.28	NO	0.777	10.051	34.757	34.77	1.017	1.017	161.61	81.2	0.751	
22	22 13C-1,2,3,7,8,9-HxCDD	2.46e5	1.32	NO	0.659	10.051	35.030	35.03	1.025	1.025	172.07	86.5	0.885	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.78e5	1.02	NO	0.534	10.051	38.531	38.54	1.127	1.127	154.00	77.4	0.920	
24	24 13C-OCDD	3.00e5	0.88	NO	0.470	10.051	41.813	41.82	1.223	1.223	294.75	74.1	1.67	
25	25 13C-2,3,7,8-TCDF	5.55e5	0.74	NO	0.977	10.051	25.175	25.19	0.989	0.989	181.26	91.1	0.740	
26	26 13C-1,2,3,7,8-PeCDF	4.29e5	1.46	NO	0.778	10.051	29.998	30.00	1.178	1.178	176.11	88.5	1.03	
27	27 13C-2,3,4,7,8-PeCDF	4.41e5	1.64	NO	0.750	10.051	30.988	30.99	1.217	1.217	187.80	94.4	1.06	
28	28 13C-1,2,3,4,7,8-HxCDF	3.09e5	0.52	NO	0.845	10.051	33.796	33.79	0.989	0.988	169.07	85.0	1.23	
29	29 13C-1,2,3,6,7,8-HxCDF	3.89e5	0.53	NO	1.03	10.051	33.913	33.91	0.992	0.992	174.88	87.9	1.01	
30	30 13C-2,3,4,6,7,8-HxCDF	3.27e5	0.55	NO	0.893	10.051	34.487	34.48	1.009	1.009	169.16	85.0	1.17	
31	31 13C-1,2,3,7,8,9-HxCDF	2.81e5	0.52	NO	0.734	10.051	35.389	35.37	1.035	1.035	176.99	88.9	1.42	

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-5.qld

Last Altered: Monday, December 23, 2019 12:19:06 Pacific Standard Time  
Printed: Monday, December 23, 2019 12:20:27 Pacific Standard Time

Name: 191217K3\_5, Date: 18-Dec-2019, Time: 05:18:35, ID: 1903655-02 PDI-032SC-A-11-12-191010 11.52, Description: PDI-032SC-A-11-12-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.74e5	0.42	NO	0.754	10.051	37.105	37.12	1.085	1.086	167.55	84.2	1.09	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.81e5	0.43	NO	0.539	10.051	39.133	39.17	1.145	1.146	155.07	77.9	1.53	
34	34 13C-OCDF	4.88e5	0.88	NO	0.593	10.051	42.001	42.03	1.229	1.230	380.73	95.7	1.29	
35	35 37Cl-2,3,7,8-TCDD	1.40e5			1.07	10.051	26.183	26.18	1.028	1.028	68.231	85.7	0.124	
36	36 13C-1,2,3,4-TCDD	3.82e5	0.80	NO	1.00	10.051	25.450	25.47	1.000	1.000	198.99	100	0.517	
37	37 13C-1,2,3,4-TCDF	6.23e5	0.75	NO	1.00	10.051	23.550	23.58	1.000	1.000	198.99	100	0.723	
38	38 13C-1,2,3,4,6,9-HxCDF	4.31e5	0.53	NO	1.00	10.051	34.160	34.19	1.000	1.000	198.99	100	1.04	
39	39 Total Tetra-Dioxins				0.925	10.051	24.620		0.000		0.38144		0.132	0.381
40	40 Total Penta-Dioxins				0.905	10.051	29.960		0.000				0.0377	
41	41 Total Hexa-Dioxins				0.967	10.051	33.635		0.000		1.3750		0.233	1.37
42	42 Total Hepta-Dioxins				1.04	10.051	38.800		0.000		6.4864		0.332	6.49
43	43 Total Tetra-Furans				0.938	10.051	23.610		0.000				0.0290	
44	44 1st Func. Penta-Furans				0.976	10.051	27.040		0.000				0.0137	
45	45 Total Penta-Furans				0.976	10.051	29.275		0.000				0.0223	
46	46 Total Hexa-Furans				1.18	10.051	33.555		0.000				0.0245	
47	47 Total Hepta-Furans				1.13	10.051	37.835		0.000				0.0477	

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-5.qld

Last Altered: Monday, December 23, 2019 12:19:06 Pacific Standard Time  
 Printed: Monday, December 23, 2019 12:20:27 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57  
 Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_5, Date: 18-Dec-2019, Time: 05:18:35, ID: 1903655-02 PDI-032SC-A-11-12-191010 11.52, Description: PDI-032SC-A-11-12-191010

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Tetra-Dioxins	23.78	4.449e3	4.417e3	2.923e2	3.517e2	0.83	NO	6.440e2	0.38144	0.38144	0.132

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hexa-Dioxins	33.20	2.275e4	1.334e4	9.334e2	6.706e2	1.39	NO	1.604e3	1.3750	1.3750	0.233

**Hepta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hepta-Dioxins	37.51	2.999e4	2.790e4	2.147e3	2.098e3	1.02	NO	4.245e3	4.5712	4.5712	0.332
2 1,2,3,4,6,7,8-HpCDD	38.58	1.472e4	1.795e4	8.714e2	9.073e2	0.96	NO	1.779e3	1.9152	1.9152	0.332

**Tetra-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Furans function 1**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-5.qld

Last Altered: Monday, December 23, 2019 12:19:06 Pacific Standard Time

Printed: Monday, December 23, 2019 12:20:27 Pacific Standard Time

Name: 191217K3\_5, Date: 18-Dec-2019, Time: 05:18:35, ID: 1903655-02 PDI-032SC-A-11-12-191010 11.52, Description: PDI-032SC-A-11-12-191010

**Penta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hepta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

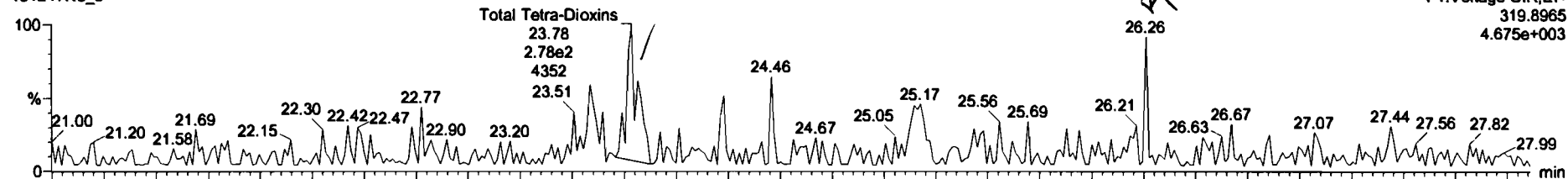
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

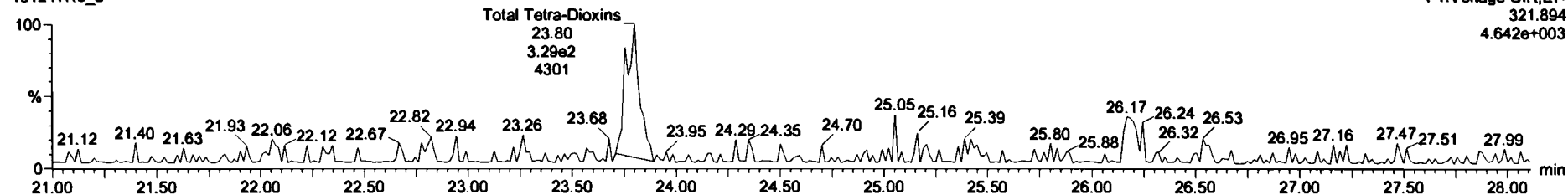
Name: 191217K3\_5, Date: 18-Dec-2019, Time: 05:18:35, ID: 1903655-02 PDI-032SC-A-11-12-191010 11.52, Description: PDI-032SC-A-11-12-191010

2,3,7,8-TCDD

191217K3\_5

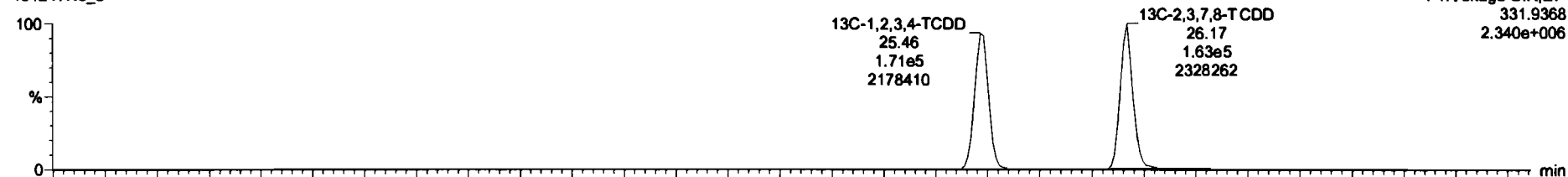


191217K3\_5

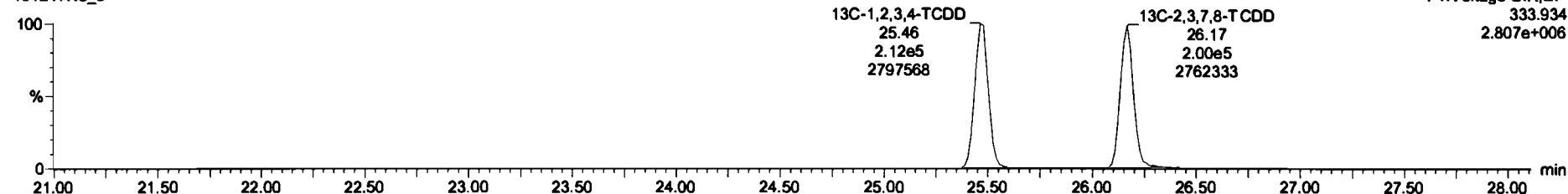


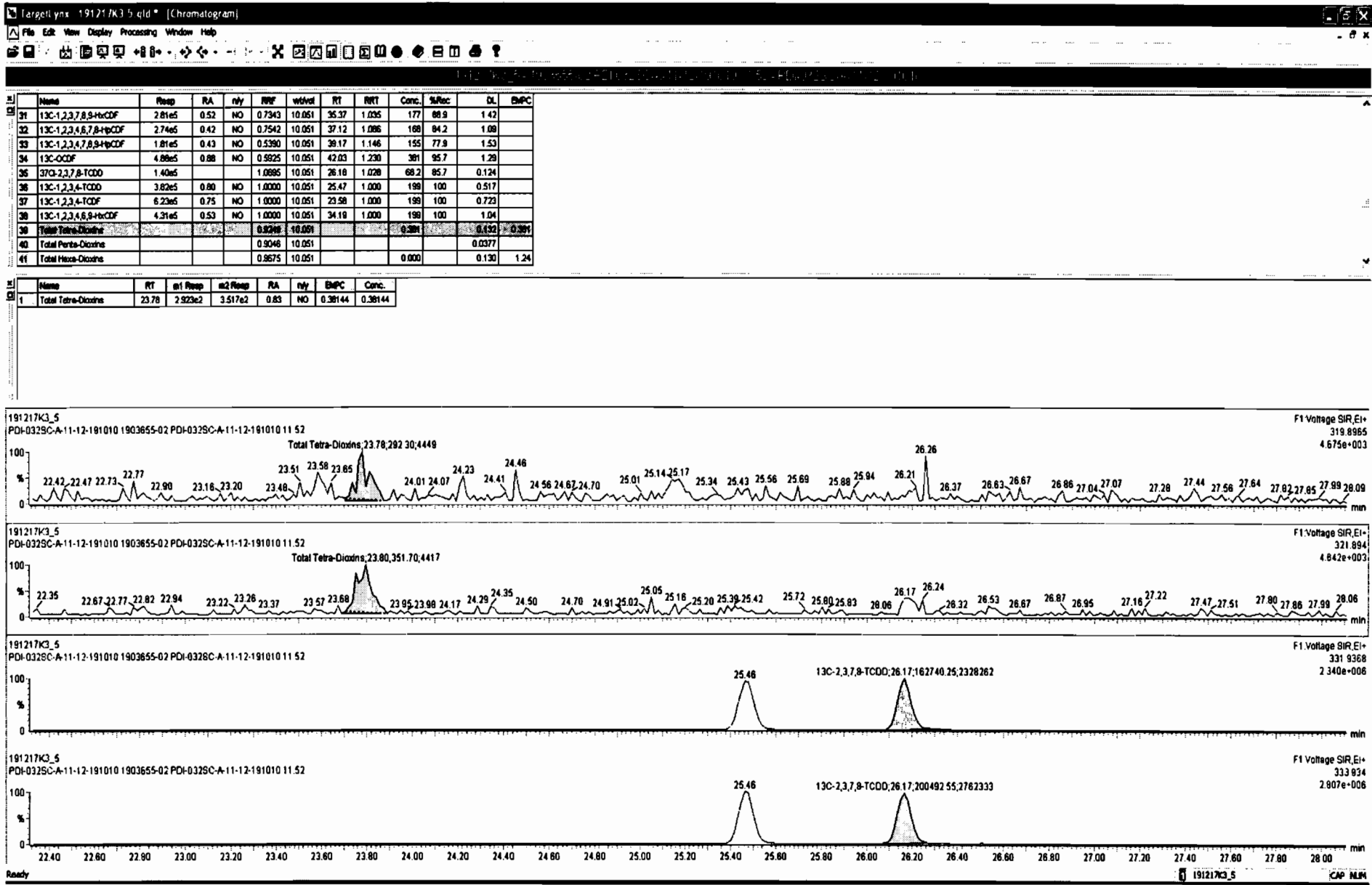
13C-2,3,7,8-TCDD

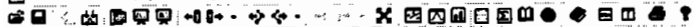
191217K3\_5



191217K3\_5



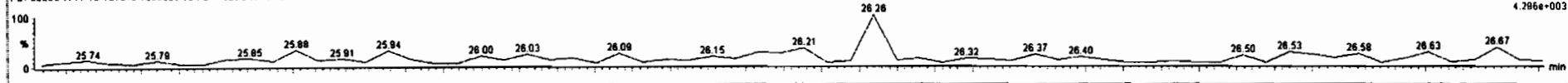




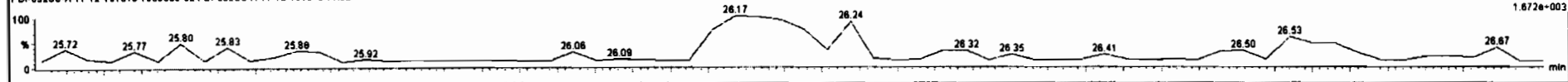
Name	Resp	RA	nly	RP	wVal	RT	RRT	Conc.	St/Sec	DL	EMPC
31 13C-1,2,3,7,8,9-HxCDF	2.81e5	0.52	NO	0.7343	10.051	35.37	1.035	177	88.9	1.42	
32 13C-1,2,3,4,6,7,8-HpCDF	2.74e5	0.42	NO	0.7542	10.051	37.12	1.086	188	84.2	1.08	
33 13C-1,2,3,4,7,8,9-HpCDF	1.81e5	0.43	NO	0.5380	10.051	39.17	1.146	155	77.9	1.53	
34 13C-OCDF	4.88e5	0.88	NO	0.5825	10.051	42.03	1.230	281	95.7	1.29	
35 37C-2,3,7,8-TCDD	1.40e5			1.0885	10.051	26.18	1.028	88.2	85.7	0.124	
36 13C-1,2,3,4-TCDD	3.82e5	0.80	NO	1.0000	10.051	25.47	1.000	198	100	0.517	
37 13C-1,2,3,6-TCDF	6.23e5	0.75	NO	1.0000	10.051	23.58	1.000	198	100	0.723	
38 13C-1,2,3,4,6,8-HxCDF	4.31e5	0.53	NO	1.0000	10.051	34.19	1.000	198	100	1.04	
39 Total Tetra-Chlorine								0.381		0.132	0.381
40 Total Penta-Chlorine								0.9046		0.0377	
41 Total Hexa-Chlorine								0.9875		0.130	1.24

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Chlorine	25.28	2.923e2	3.517e2	0.83	NO	0.38144	0.38144

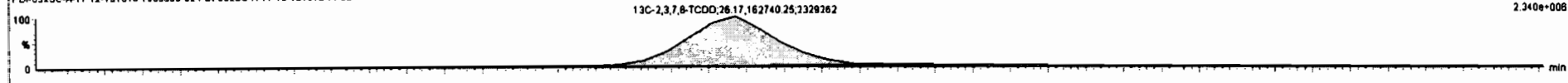
191217K3\_5  
PDI-0325C-A-11-12-191010 1903655-02 PDI-0325C-A-11-12-191010 11 52  
F1 Voltage SiR,El+  
319.8965  
4.286e+003



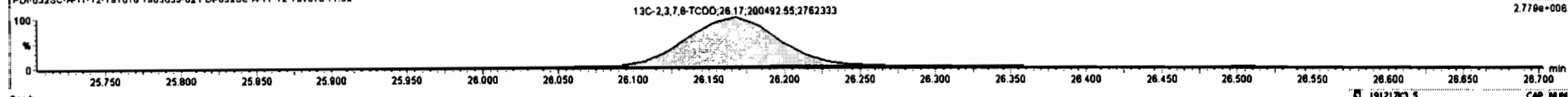
191217K3\_5  
PDI-0325C-A-11-12-191010 1903655-02 PDI-0325C-A-11-12-191010 11 52  
F1 Voltage SiR,El+  
321.894  
1.872e+003



191217K3\_5  
PDI-0325C-A-11-12-191010 1903655-02 PDI-0325C-A-11-12-191010 11 52  
F1 Voltage SiR,El+  
331.9388  
2.340e+008



191217K3\_5  
PDI-0325C-A-11-12-191010 1903655-02 PDI-0325C-A-11-12-191010 11 52  
F1 Voltage SiR,El+  
333.934  
2.778e+008





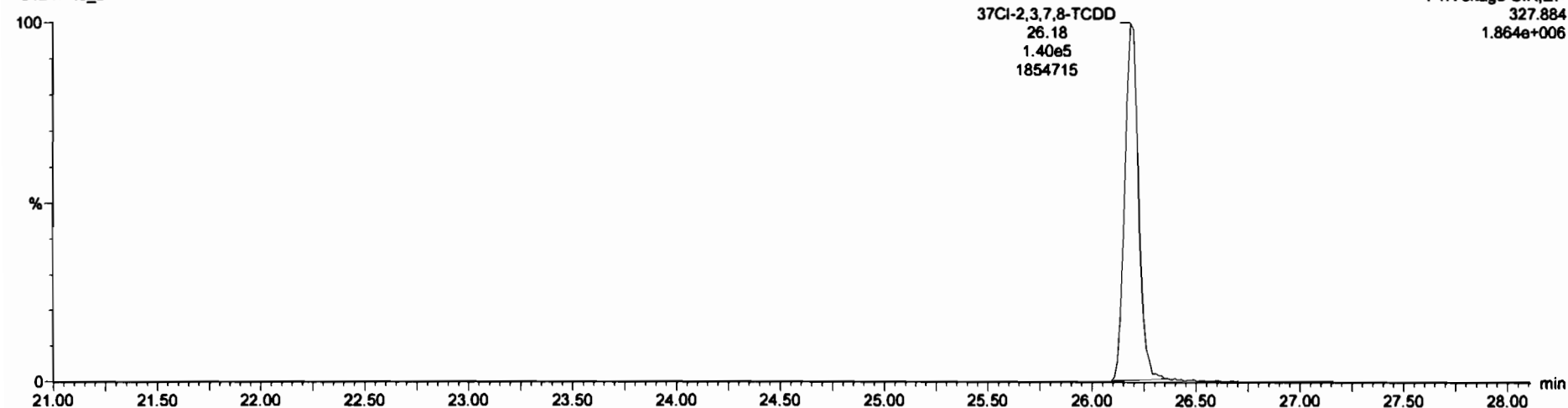
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_5, Date: 18-Dec-2019, Time: 05:18:35, ID: 1903655-02 PDI-032SC-A-11-12-191010 11.52, Description: PDI-032SC-A-11-12-191010

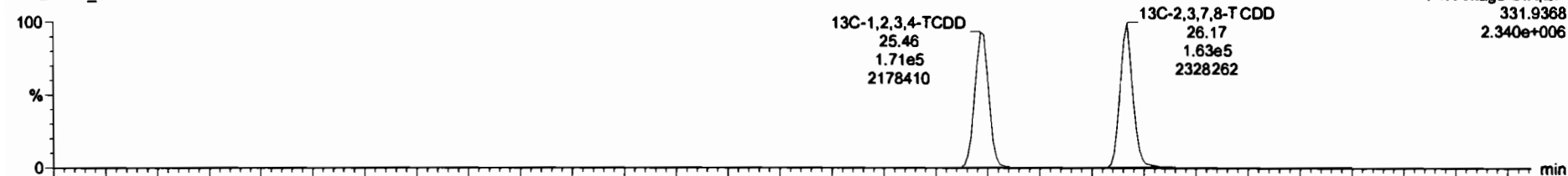
**37Cl-2,3,7,8-TCDD**

191217K3\_5

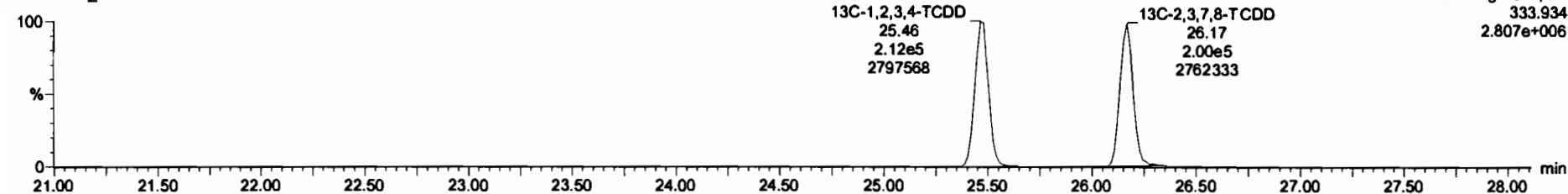


**13C-1,2,3,4-TCDD**

191217K3\_5



191217K3\_5



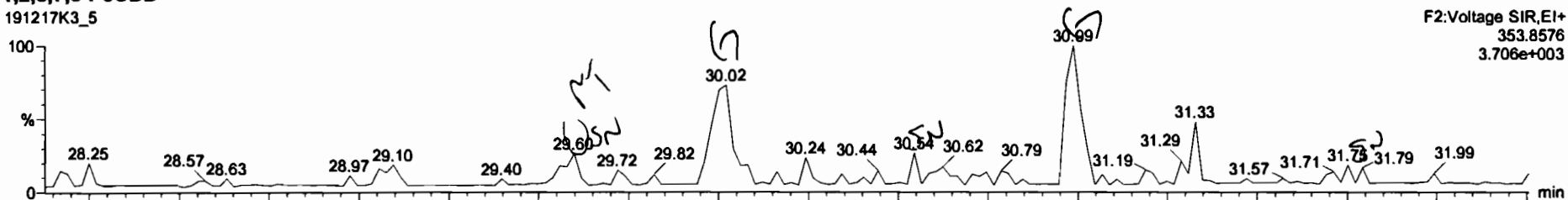
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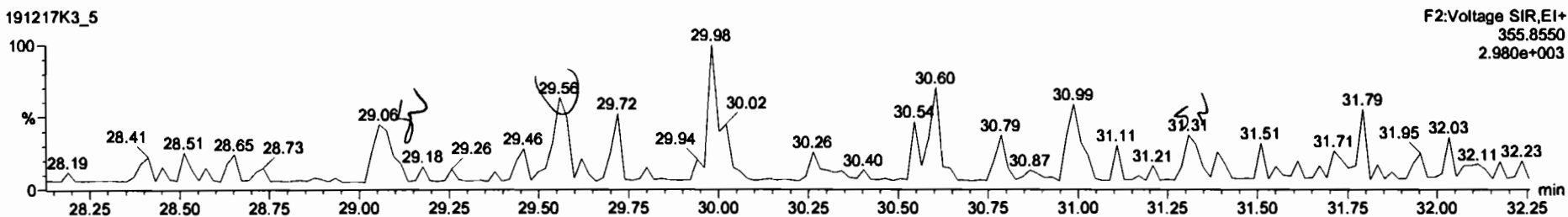
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**1,2,3,7,8-PeCDD**

191217K3\_5

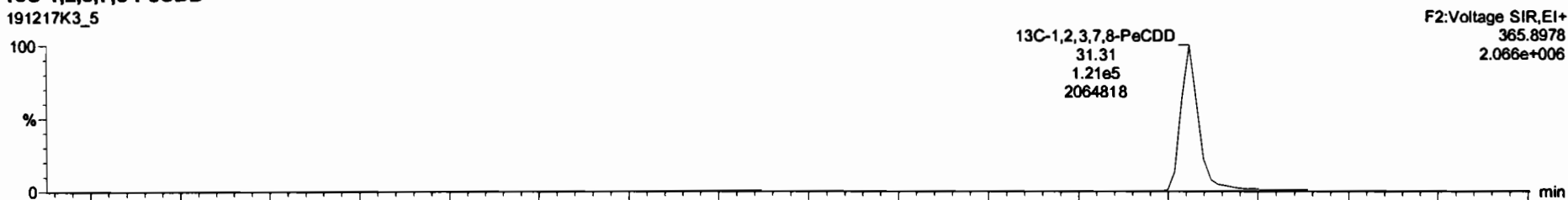


191217K3\_5

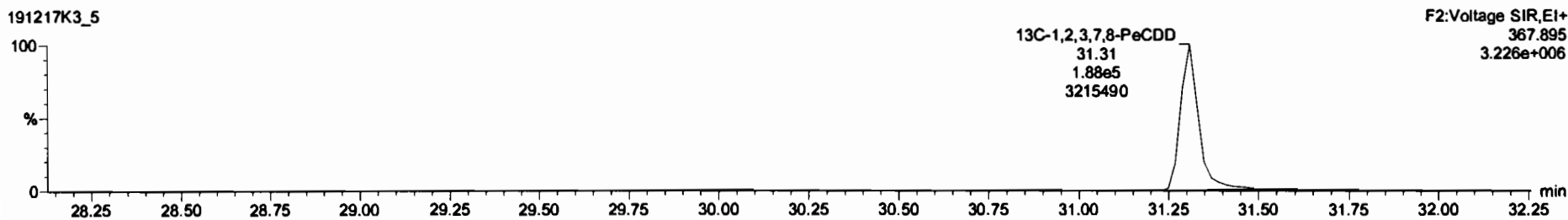


**13C-1,2,3,7,8-PeCDD**

191217K3\_5

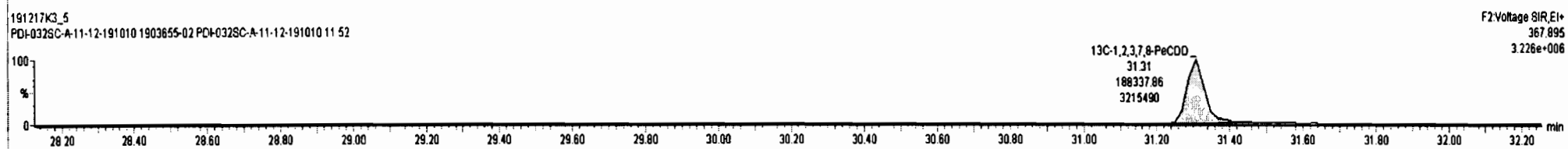
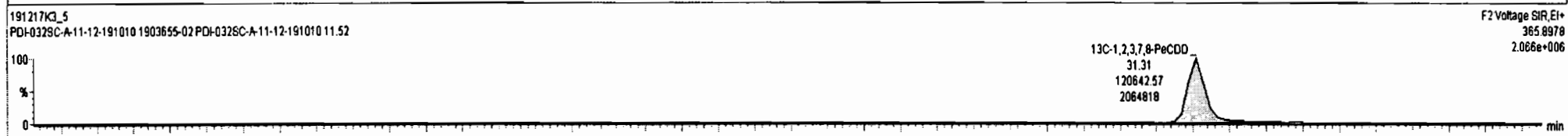
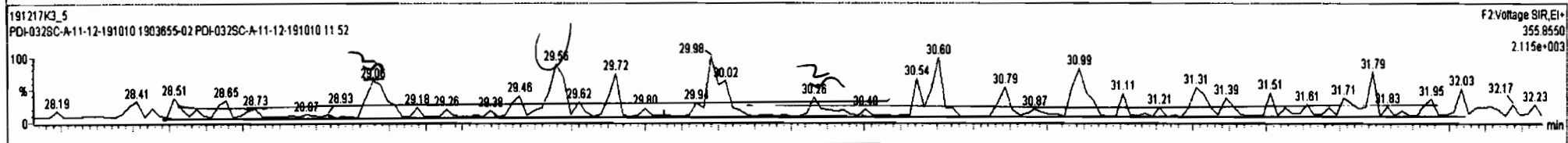
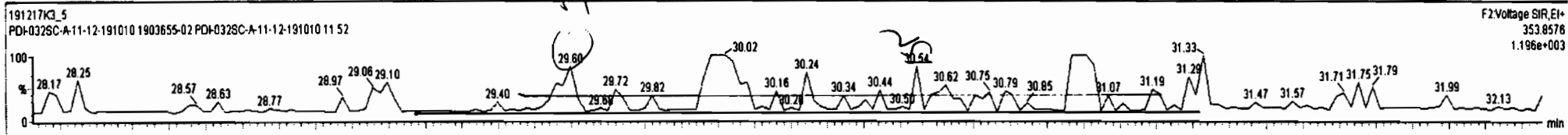


191217K3\_5



#	Name	Resp	RA	n/y	PF	wAve	RT	RRT	Conc.	%Rec	DL	EMPC
25	13C-2,3,7,8-TCDF	5.56e5	0.74	NO	0.9775	10.051	25.19	0.989	181	91.1	0.740	
26	13C-1,2,3,7,8-PeCDF	4.29e5	1.46	NO	0.7778	10.051	30.00	1.178	176	88.5	1.03	
27	13C-2,3,4,7,8-PeCDF	4.41e5	1.64	NO	0.7499	10.051	30.99	1.217	188	94.4	1.08	
28	13C-1,2,3,4,7,8-HxCDF	3.09e5	0.52	NO	0.8452	10.051	33.79	0.988	169	85.0	1.23	
29	13C-1,2,3,6,7,8-HxCDF	3.89e5	0.53	NO	1.0267	10.051	33.91	0.982	175	87.9	1.01	
30	13C-2,3,4,6,7,8-HxCDF	3.27e5	0.55	NO	0.8929	10.051	34.48	1.009	169	85.0	1.17	
31	13C-1,2,3,7,8,9-HxCDF	2.81e5	0.52	NO	0.7343	10.051	35.37	1.035	177	88.9	1.42	
32	13C-1,2,3,4,6,7,8,9-HpCDF	2.74e5	0.42	NO	0.7542	10.051	37.12	1.086	168	84.2	1.09	
33	13C-1,2,3,4,7,8,9-HpCDF	1.81e5	0.43	NO	0.5390	10.051	39.17	1.146	155	77.9	1.53	
34	13C-OCDF	4.88e5	0.88	NO	0.5925	10.051	42.03	1.230	381	95.7	1.28	
35	37Cl-2,3,7,8-TCDD	1.40e5			1.0685	10.051	28.18	1.028	68.2	85.7	0.124	

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1								



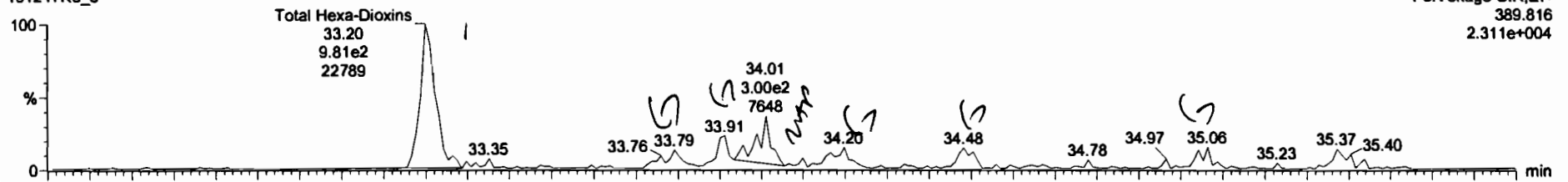
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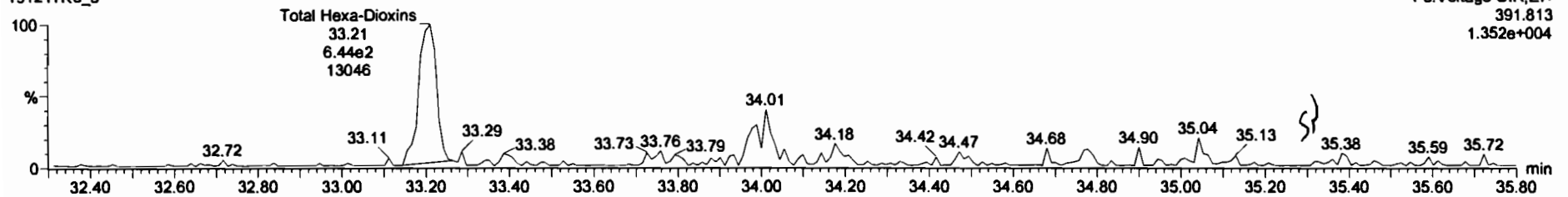
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1,2,3,4,7,8-HxCDD

191217K3\_5

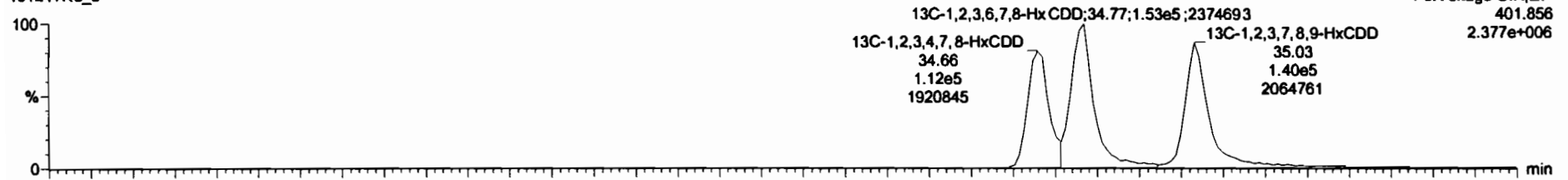


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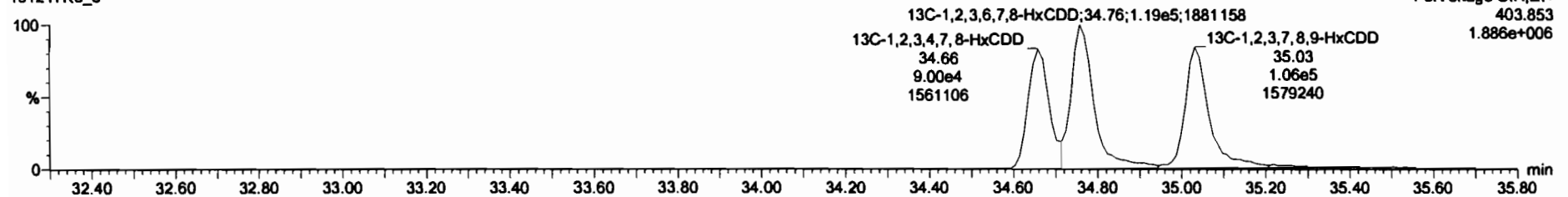


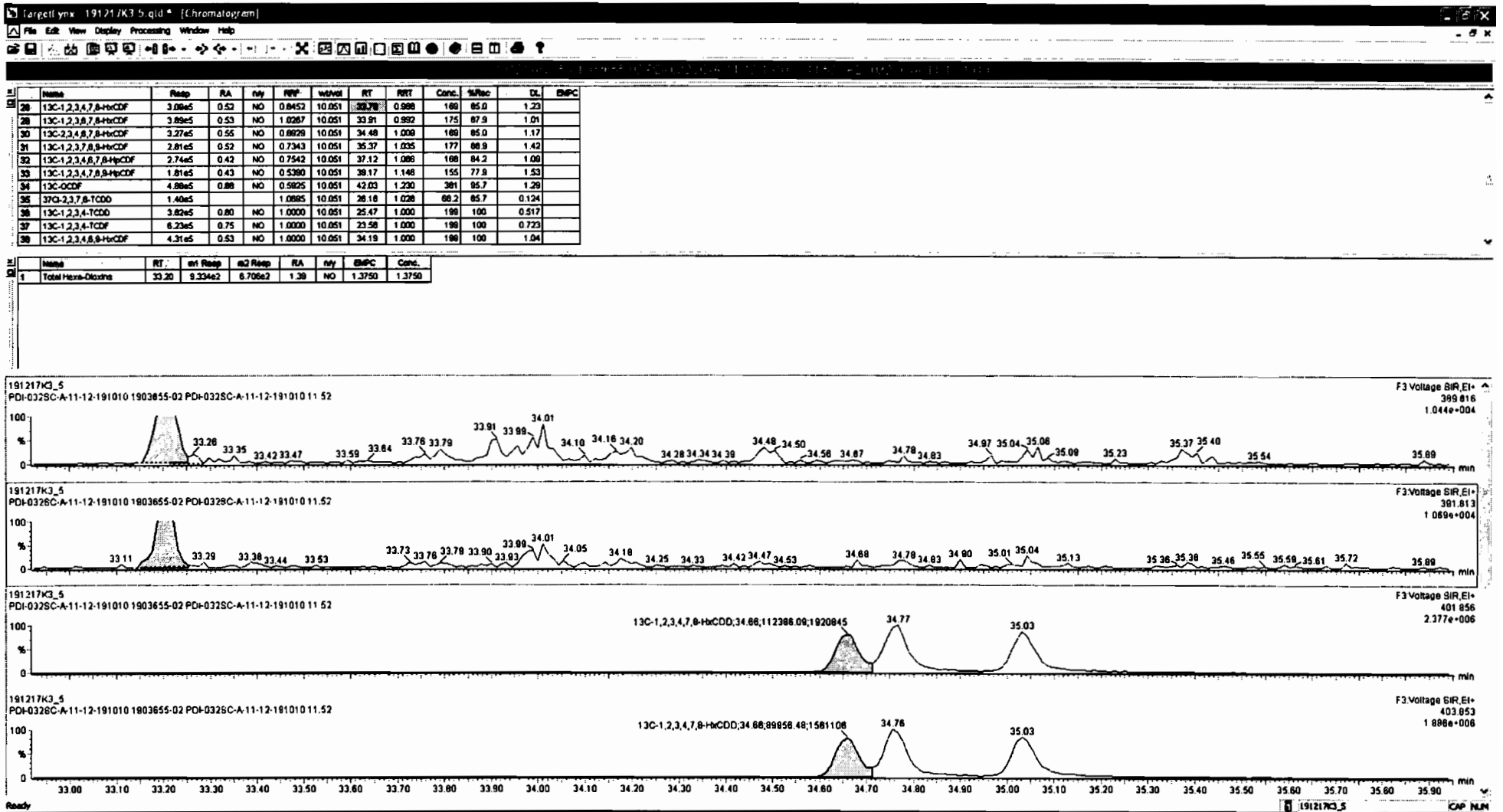
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191217K3\_5



191217K3\_5





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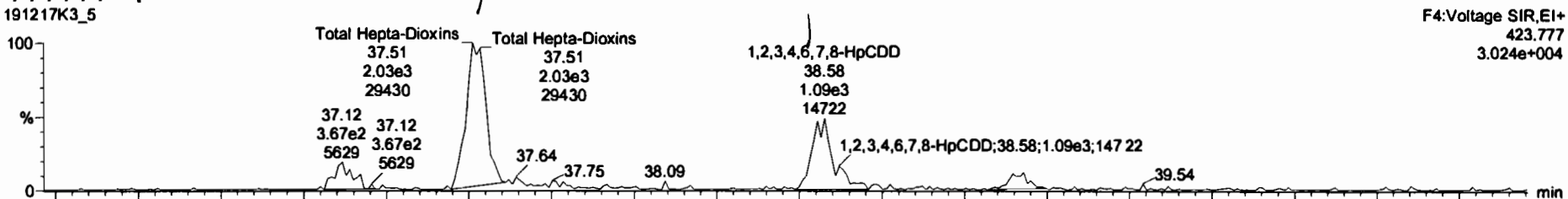
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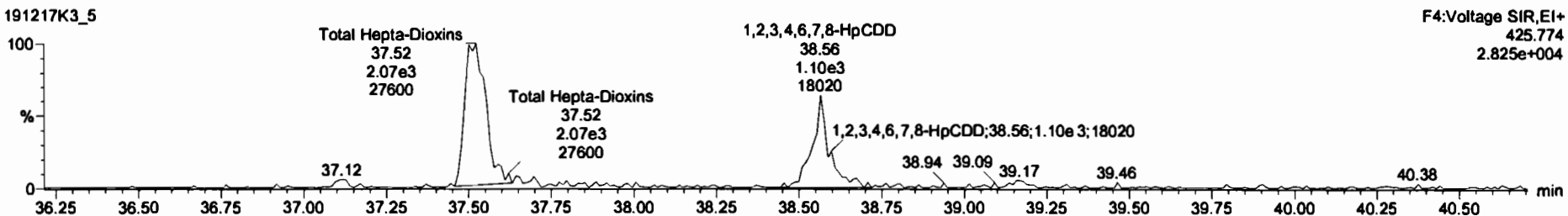
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1,2,3,4,6,7,8-HpCDD

191217K3\_5

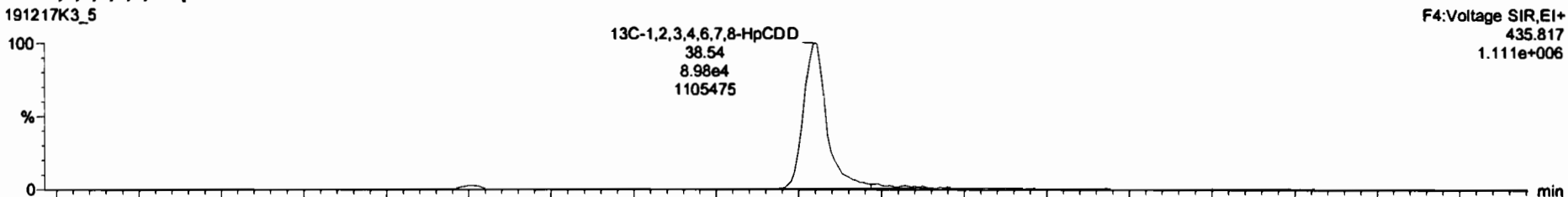


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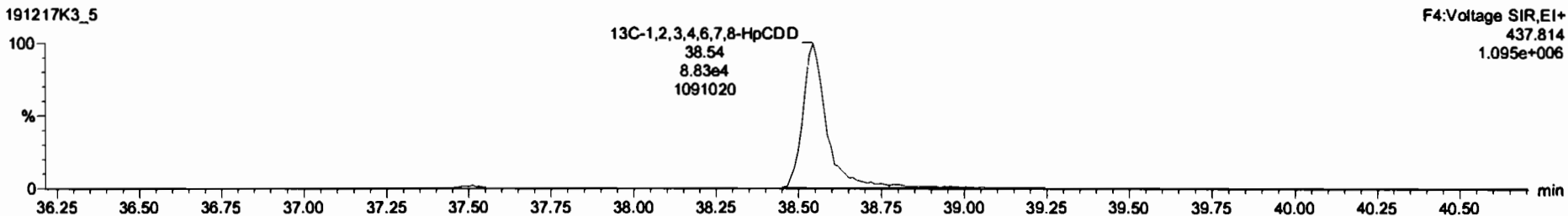


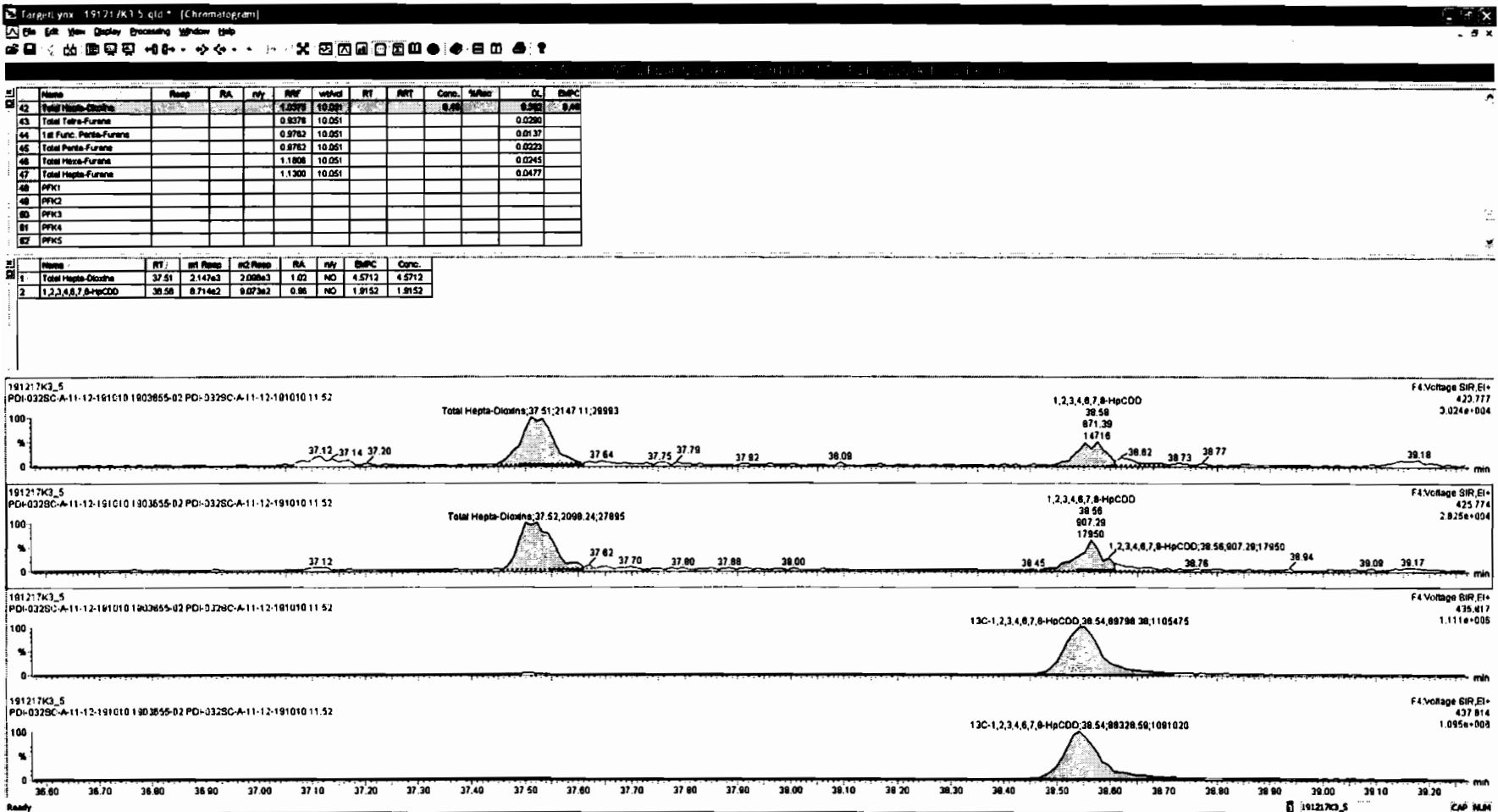
13C-1,2,3,4,6,7,8-HpCDD

191217K3\_5



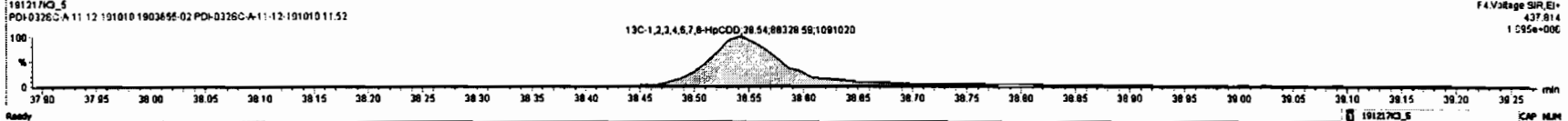
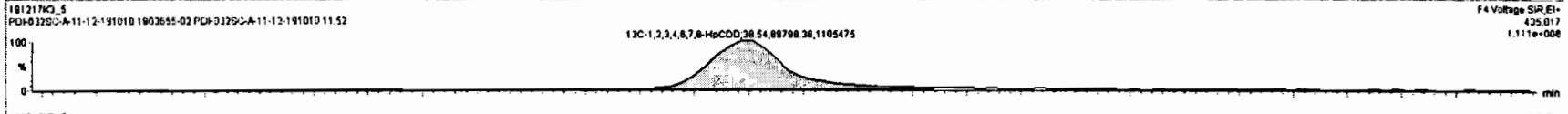
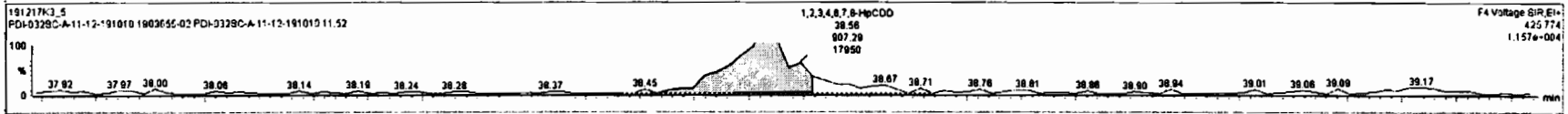
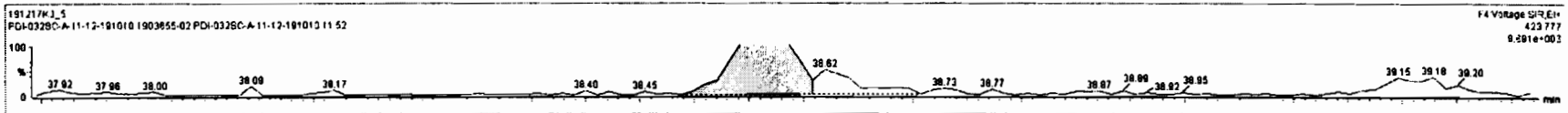
191217K3\_5





#	Name	Resp	RA	int	RPV	intStd	RT	RTT	Conc	%Rec	DL	SLPC
43	Total Hepta-Chlorine			1.0276	10.051				0.26		0.332	0.46
45	Total Fura-Furane			0.9376	10.051						0.0200	
46	1st Func. Penta-Furane			0.9762	10.051						0.0137	
46	Total Penta-Furane			0.9762	10.051						0.0223	
46	Total Hexa-Furane			1.1008	10.051						0.0245	
47	Total Hepta-Furane			1.1300	10.051						0.0477	
48	PFK1											
48	PFK2											
48	PFK3											
49	PFK4											
49	PFK5											

#	Name	RT	int Resp	std Resp	RA	int	SLPC	Conc.
1	Total Hepta-Chlorine	37.51	2.147e3	2.089e3	1.02	NO	4.5712	4.5712
2	1,2,3,4,6,7,8-HpCDD	38.58	8.714e2	8.073e2	0.98	NO	1.9152	1.9152



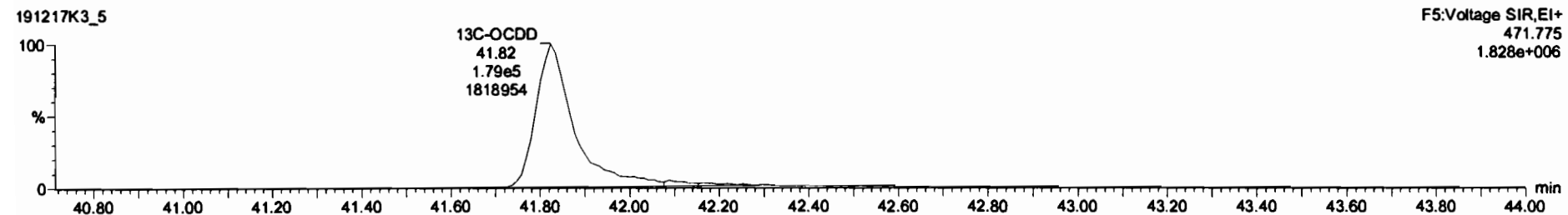
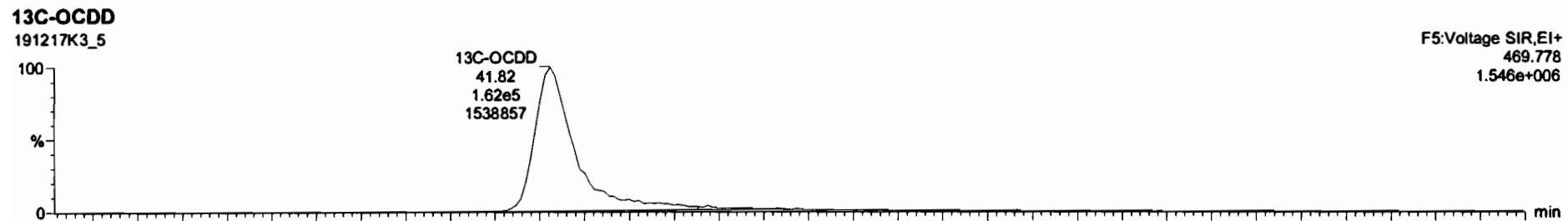
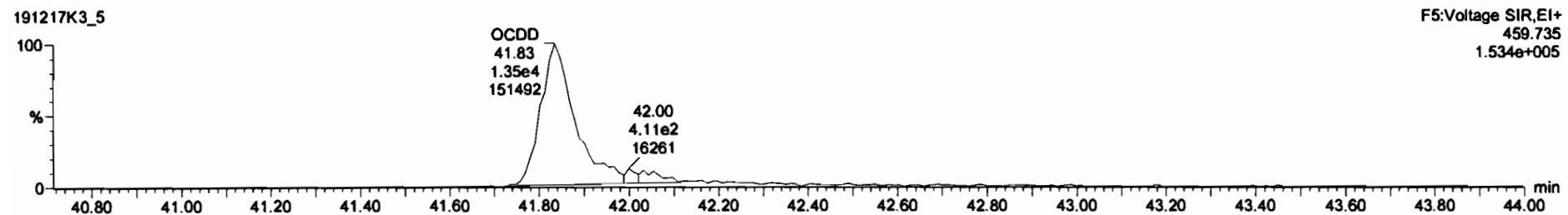
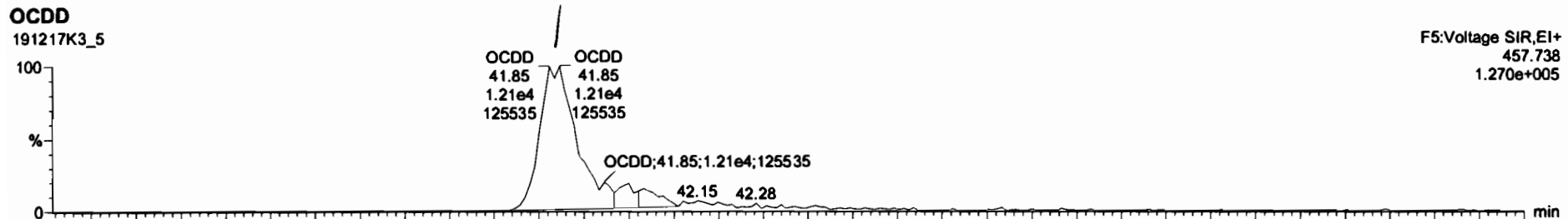


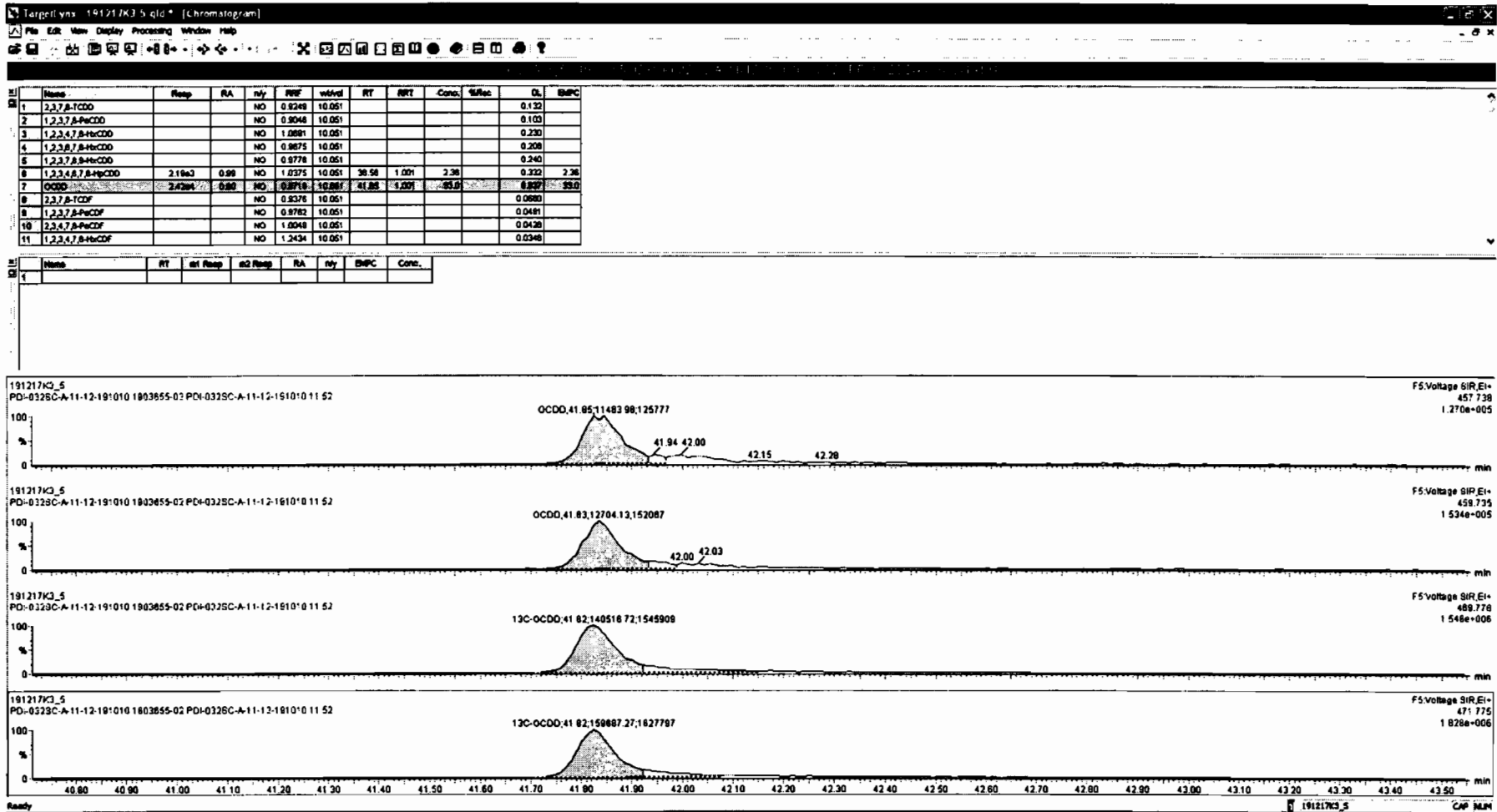
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_5, Date: 18-Dec-2019, Time: 05:18:35, ID: 1903655-02 PDI-032SC-A-11-12-191010 11.52, Description: PDI-032SC-A-11-12-191010





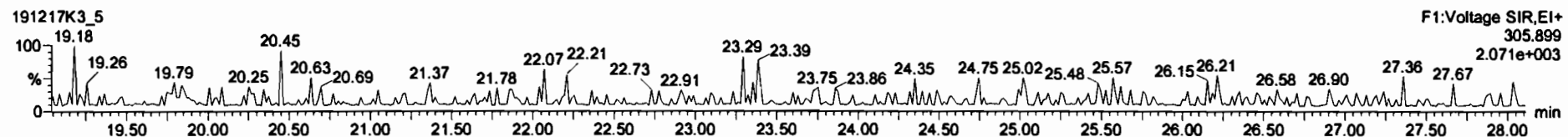
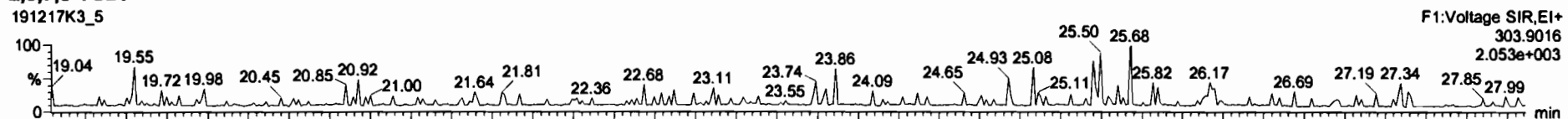
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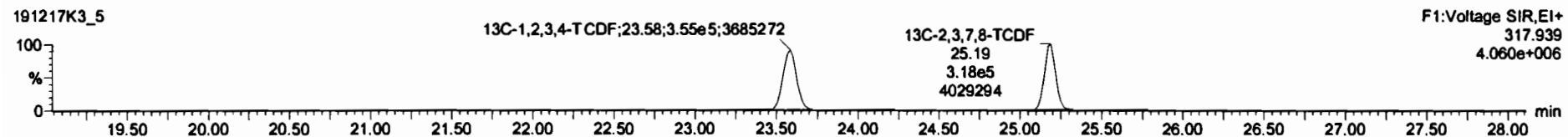
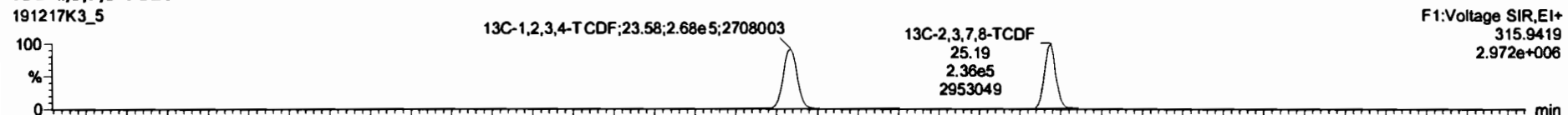
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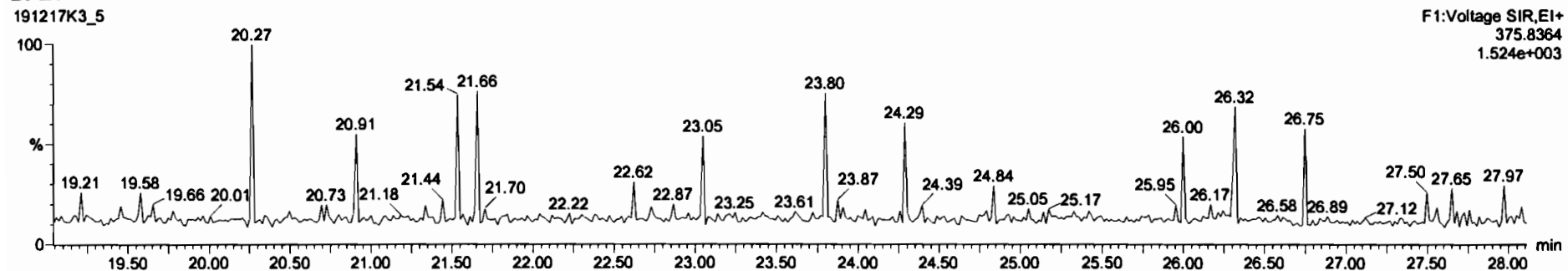
**2,3,7,8-TCDF**



**13C-2,3,7,8-TCDF**



**DPE1**

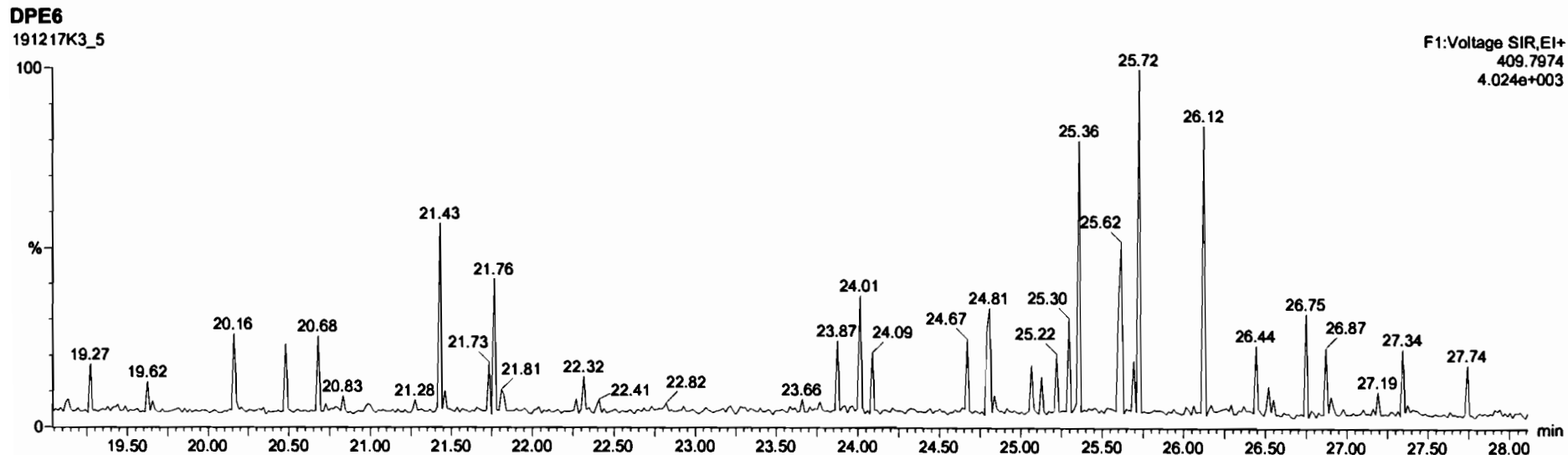
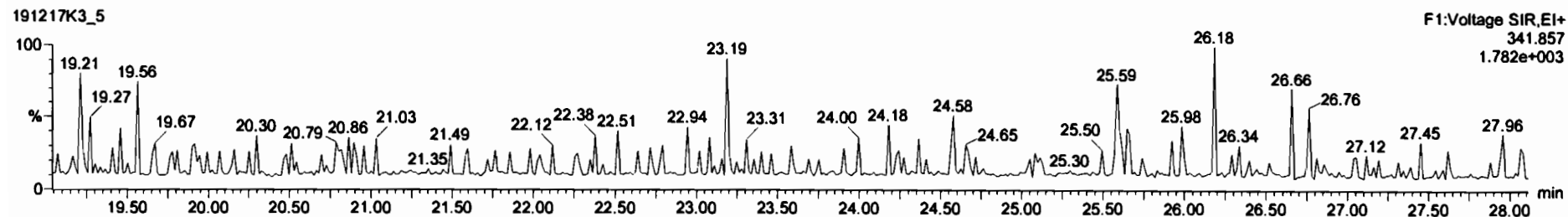
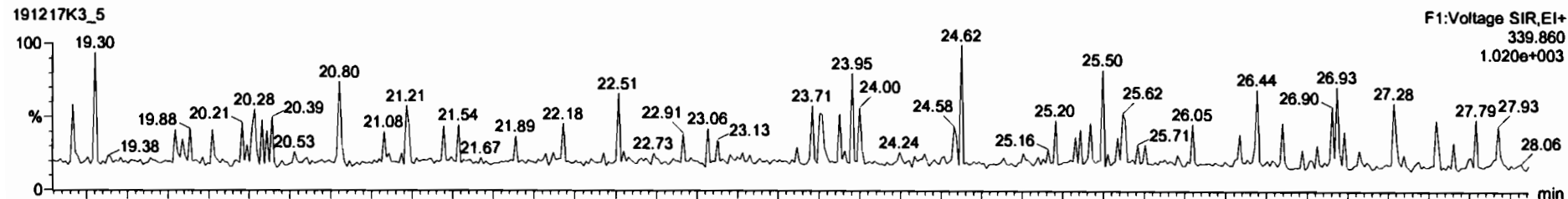


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1st Func. Penta-Furans

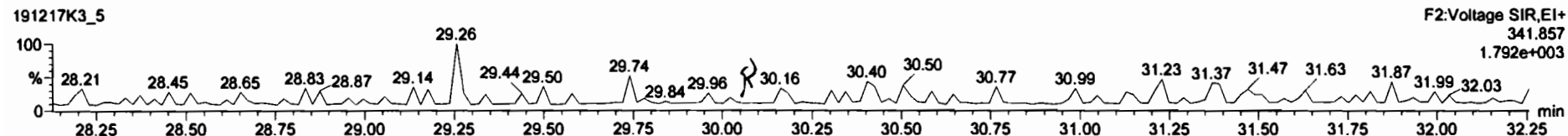
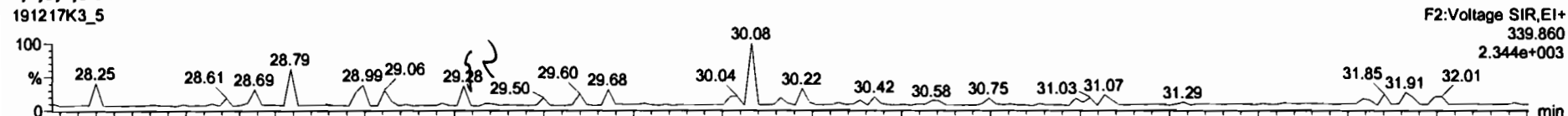


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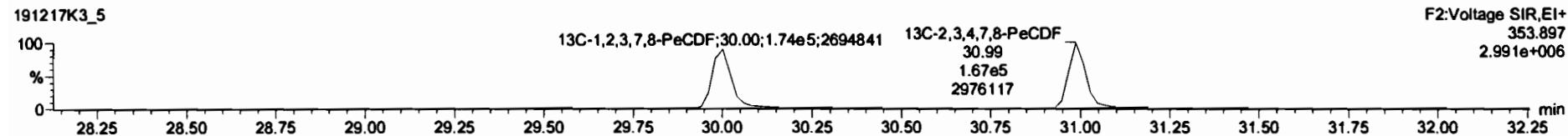
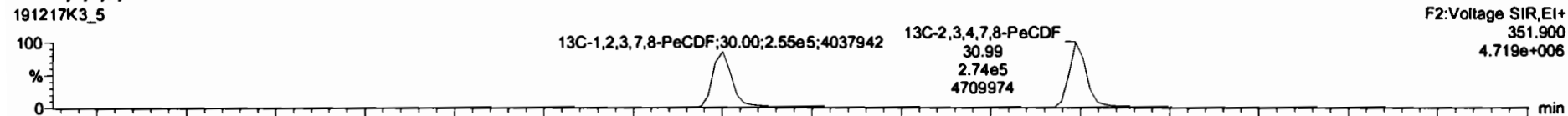
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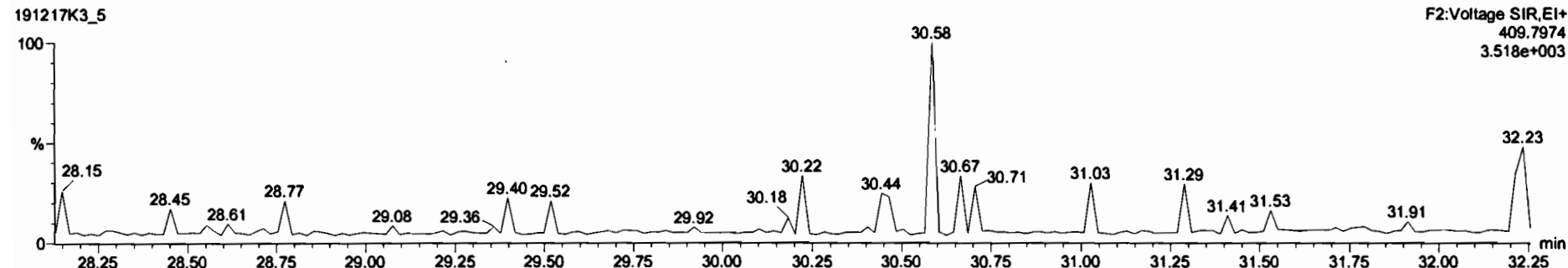
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF



DPE2

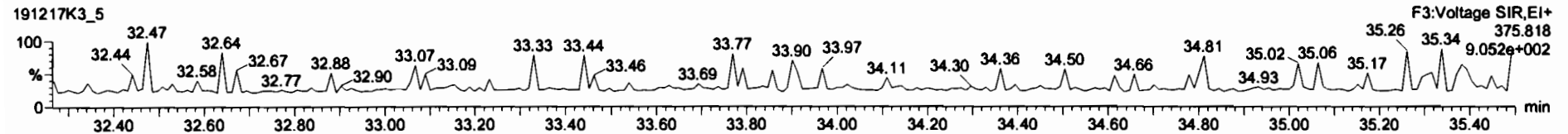
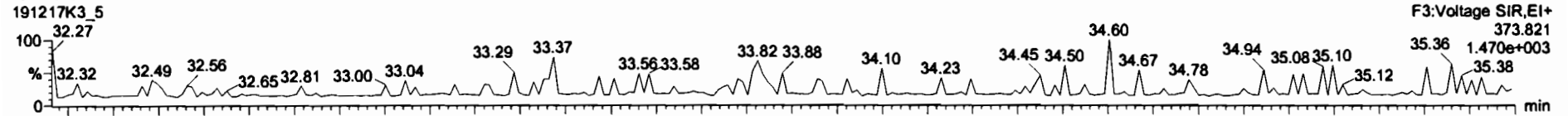


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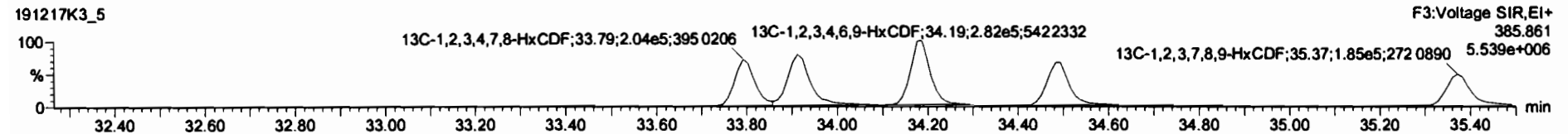
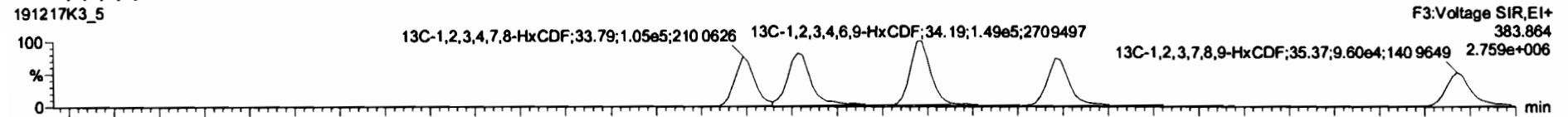
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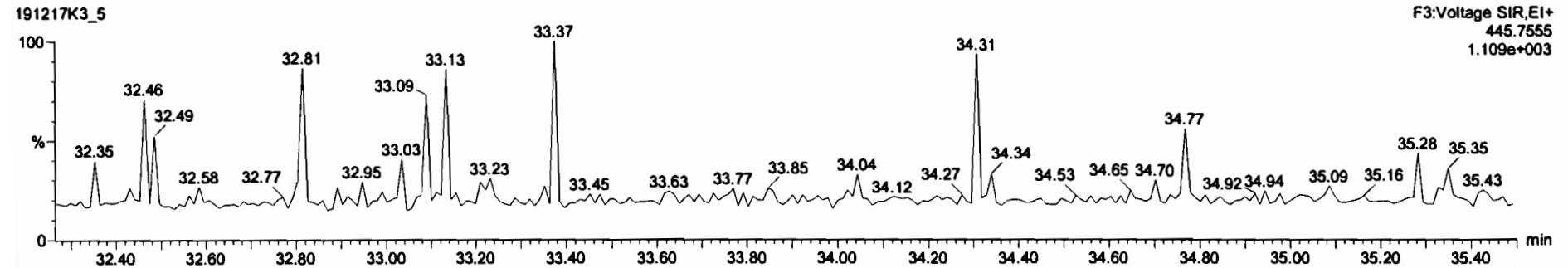
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF



DPE3

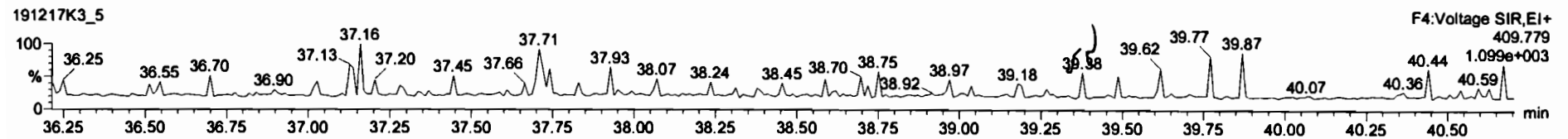
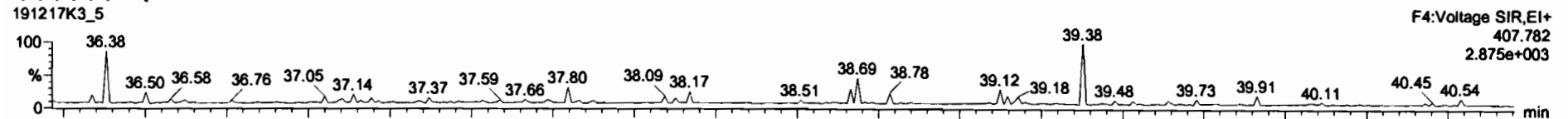


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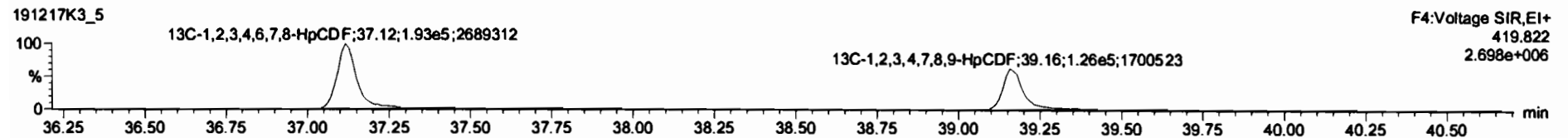
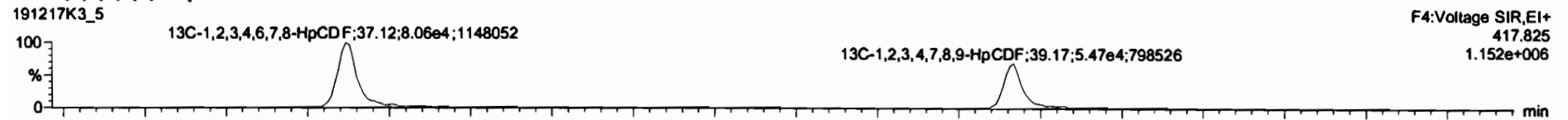
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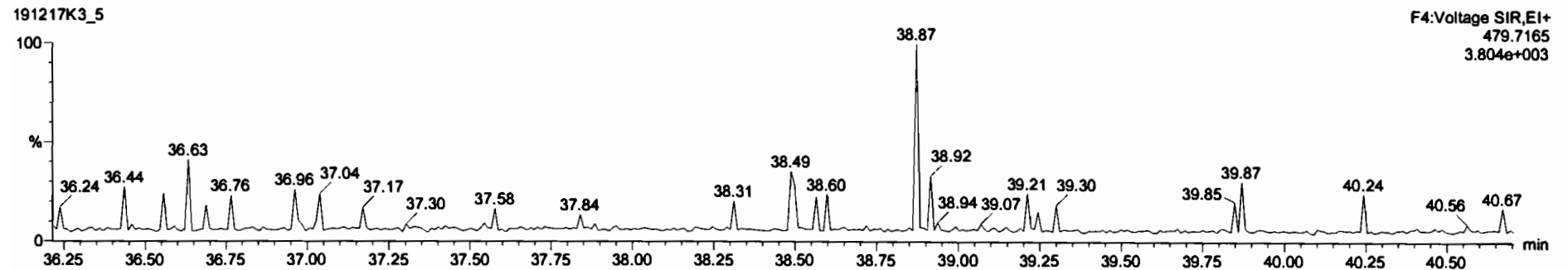
1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF



DPE4

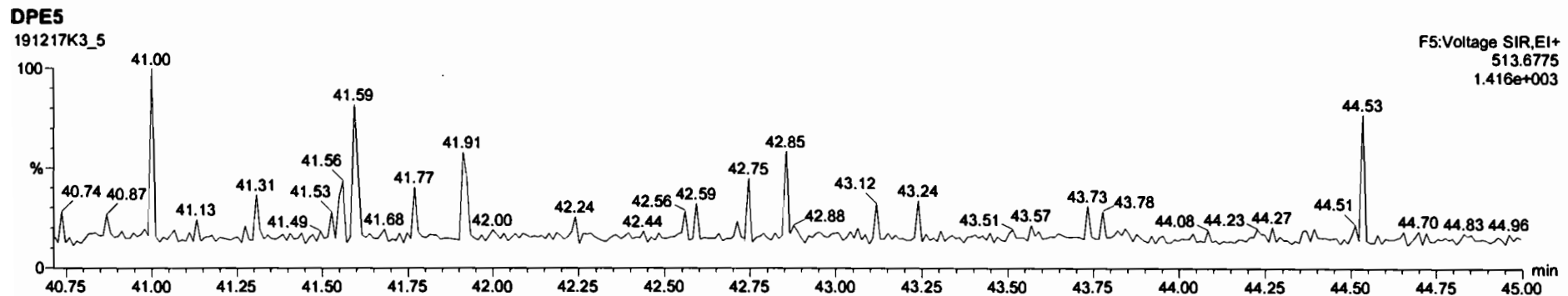
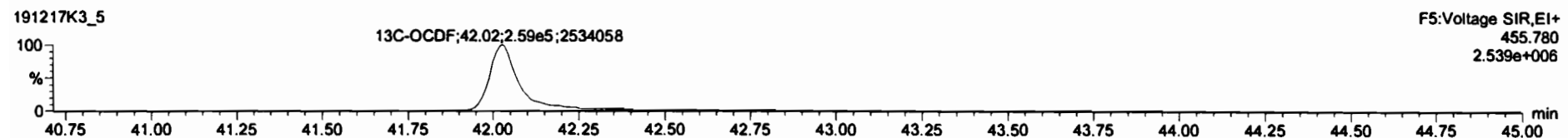
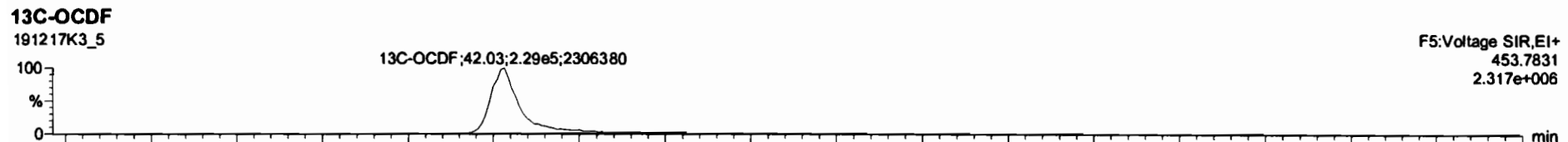
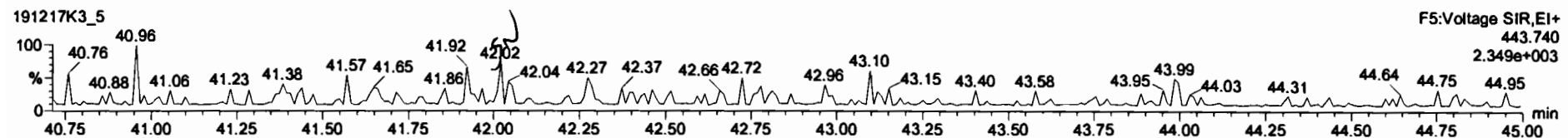
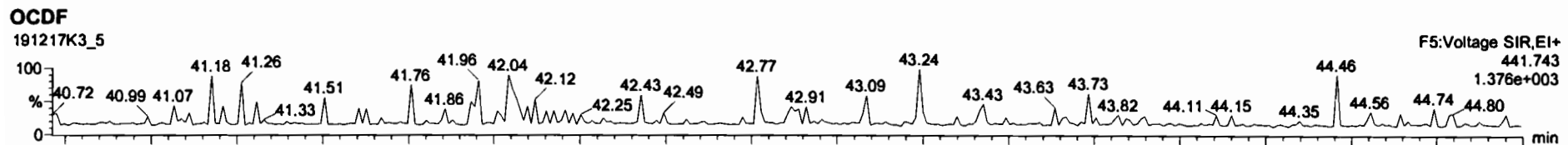


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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_5, Date: 18-Dec-2019, Time: 05:18:35, ID: 1903655-02 PDI-032SC-A-11-12-191010 11.52, Description: PDI-032SC-A-11-12-191010



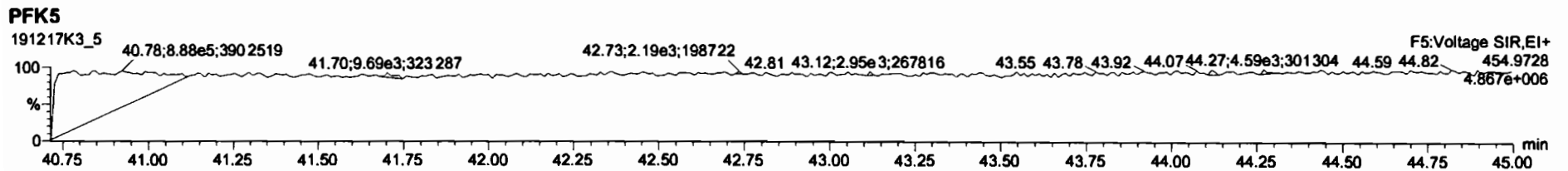
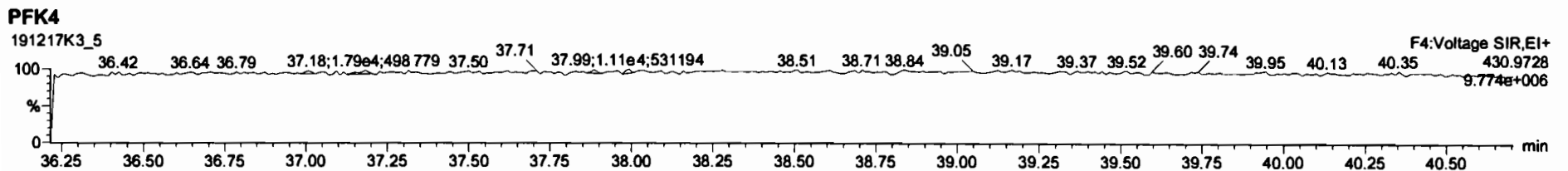
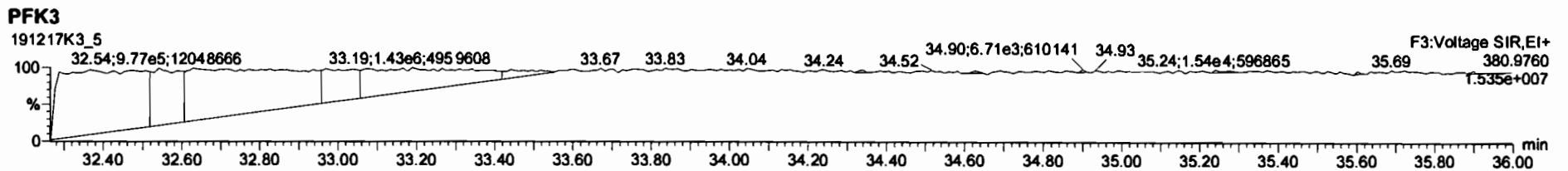
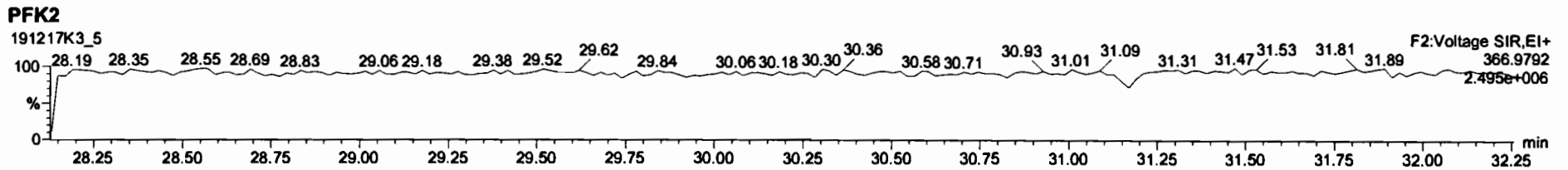
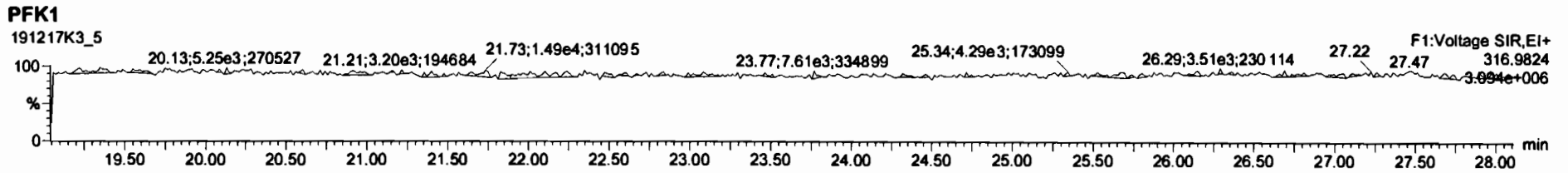


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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

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Dataset: U:\VG11.PRO\Results\191217K3\191217K3-6.qld

Last Altered: Monday, December 23, 2019 12:28:43 Pacific Standard Time

Printed: Monday, December 23, 2019 12:29:31 Pacific Standard Time

*HZ 12-23-19*

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

*Tuk  
11/6/20*

Name: 191217K3\_6, Date: 18-Dec-2019, Time: 06:08:15, ID: 1903655-03 PDI-032SC-A-12-12.8-191010 14, Description: PDI-032SC-A-12-12.8-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.925	10.000	26.199		1.001				0.184	
2	2 1,2,3,7,8-PeCDD			NO	0.905	10.000	31.331		1.001				0.130	
3	3 1,2,3,4,7,8-HxCDD			NO	1.07	10.000	34.668		1.000				0.183	
4	4 1,2,3,6,7,8-HxCDD			NO	0.967	10.000	34.757		1.000				0.166	
5	5 1,2,3,7,8,9-HxCDD			NO	0.978	10.000	35.066		1.001				0.203	
6	6 1,2,3,4,6,7,8-HpCDD	5.38e2	0.96	NO	1.04	10.000	38.554	38.56	1.000	1.001	0.64594		0.212	0.646
7	7 OCDD	3.78e3	0.88	NO	0.972	10.000	41.834	41.85	1.000	1.000	4.7031		0.500	4.70
8	8 2,3,7,8-TCDF			NO	0.938	10.000	25.199		1.001				0.0766	
9	9 1,2,3,7,8-PeCDF			NO	0.976	10.000	30.022		1.001				0.0528	
10	10 2,3,4,7,8-PeCDF			NO	1.00	10.000	31.018		1.001				0.0452	
11	11 1,2,3,4,7,8-HxCDF			NO	1.24	10.000	33.791		1.000				0.0536	
12	12 1,2,3,6,7,8-HxCDF			NO	1.10	10.000	33.922		1.000				0.0536	
13	13 2,3,4,6,7,8-HxCDF			NO	1.18	10.000	34.516		1.001				0.0527	
14	14 1,2,3,7,8,9-HxCDF			NO	1.07	10.000	35.371		1.000				0.0814	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.13	10.000	37.153		1.001				0.0456	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.26	10.000	39.157		1.000				0.0551	
17	17 OCDF			NO	1.10	10.000	42.010		1.000				0.132	
18	18 13C-2,3,7,8-TCDD	3.09e5	0.80	NO	1.05	10.000	26.163	26.17	1.027	1.028	182.61	91.3	0.671	
19	19 13C-1,2,3,7,8-PeCDD	2.64e5	0.65	NO	0.743	10.000	31.309	31.31	1.230	1.229	220.17	110	1.12	
20	20 13C-1,2,3,4,7,8-HxCDD	1.70e5	1.29	NO	0.646	10.000	34.647	34.66	1.014	1.014	142.85	71.4	1.12	
21	21 13C-1,2,3,6,7,8-HxCDD	2.34e5	1.33	NO	0.777	10.000	34.746	34.76	1.017	1.017	164.04	82.0	0.932	
22	22 13C-1,2,3,7,8,9-HxCDD	1.99e5	1.37	NO	0.659	10.000	35.019	35.03	1.025	1.025	164.07	82.0	1.10	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.60e5	1.01	NO	0.534	10.000	38.519	38.54	1.127	1.128	163.45	81.7	1.03	
24	24 13C-OCDD	3.31e5	0.88	NO	0.470	10.000	41.799	41.83	1.223	1.224	382.99	95.7	2.27	
25	25 13C-2,3,7,8-TCDF	4.77e5	0.75	NO	0.977	10.000	25.175	25.17	0.989	0.989	168.49	84.2	0.594	
26	26 13C-1,2,3,7,8-PeCDF	3.91e5	1.52	NO	0.778	10.000	29.998	30.00	1.178	1.178	173.50	86.7	0.893	
27	27 13C-2,3,4,7,8-PeCDF	3.70e5	1.46	NO	0.750	10.000	30.988	30.99	1.217	1.217	170.24	85.1	0.927	
28	28 13C-1,2,3,4,7,8-HxCDF	2.59e5	0.53	NO	0.845	10.000	33.785	33.79	0.989	0.989	166.99	83.5	1.94	
29	29 13C-1,2,3,6,7,8-HxCDF	3.21e5	0.54	NO	1.03	10.000	33.902	33.91	0.992	0.992	170.38	85.2	1.60	
30	30 13C-2,3,4,6,7,8-HxCDF	2.87e5	0.54	NO	0.893	10.000	34.476	34.48	1.009	1.009	174.68	87.3	1.84	
31	31 13C-1,2,3,7,8,9-HxCDF	2.47e5	0.52	NO	0.734	10.000	35.378	35.37	1.035	1.035	182.96	91.5	2.24	

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-6.qld

Last Altered: Monday, December 23, 2019 12:28:43 Pacific Standard Time

Printed: Monday, December 23, 2019 12:29:31 Pacific Standard Time

Name: 191217K3\_6, Date: 18-Dec-2019, Time: 06:08:15, ID: 1903655-03 PDI-032SC-A-12-12.8-191010 14, Description: PDI-032SC-A-12-12.8-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.48e5	0.45	NO	0.754	10.000	37.094	37.12	1.085	1.086	178.77	89.4	1.02	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.63e5	0.44	NO	0.539	10.000	39.120	39.16	1.145	1.146	165.02	82.5	1.42	
34	34 13C-OCDF	4.98e5	0.88	NO	0.593	10.000	41.987	42.01	1.229	1.229	457.06	114	1.54	
35	35 37Cl-2,3,7,8-TCDD	1.40e5			1.07	10.000	26.183	26.18	1.028	1.028	80.935	101	0.206	
36	36 13C-1,2,3,4-TCDD	3.23e5	0.79	NO	1.00	10.000	25.450	25.47	1.000	1.000	200.00	100	0.704	
37	37 13C-1,2,3,4-TCDF	5.80e5	0.73	NO	1.00	10.000	23.550	23.58	1.000	1.000	200.00	100	0.580	
38	38 13C-1,2,3,4,6,9-HxCDF	3.68e5	0.54	NO	1.00	10.000	34.160	34.17	1.000	1.000	200.00	100	1.64	
39	39 Total Tetra-Dioxins				0.925	10.000	24.620		0.000		0.00000		0.116	0.196
40	40 Total Penta-Dioxins				0.905	10.000	29.960		0.000				0.0549	
41	41 Total Hexa-Dioxins				0.967	10.000	33.635		0.000		0.00000		0.117	0.523
42	42 Total Hepta-Dioxins				1.04	10.000	38.800		0.000		1.6311		0.212	1.63
43	43 Total Tetra-Furans				0.938	10.000	23.610		0.000				0.0269	
44	44 1st Func. Penta-Furans				0.976	10.000	27.040		0.000				0.0106	
45	45 Total Penta-Furans				0.976	10.000	29.275		0.000				0.0191	
46	46 Total Hexa-Furans				1.18	10.000	33.555		0.000				0.0386	
47	47 Total Hepta-Furans				1.13	10.000	37.835		0.000				0.0299	

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-6.qld

Last Altered: Monday, December 23, 2019 12:28:43 Pacific Standard Time

Printed: Monday, December 23, 2019 12:29:31 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_6, Date: 18-Dec-2019, Time: 06:08:15, ID: 1903655-03 PDI-032SC-A-12-12.8-191010 14, Description: PDI-032SC-A-12-12.8-191010

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Tetra-Dioxins	23.78	2.056e3	2.070e3	1.616e2	1.584e2	1.02	YES	0.000e0	0.00000	0.19617	0.184

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hexa-Dioxins	33.21	1.165e4	5.029e3	3.735e2	2.268e2	1.65	YES	0.000e0	0.00000	0.52282	0.189

**Hepta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hepta-Dioxins	37.53	6.967e3	7.168e3	4.156e2	4.044e2	1.03	NO	8.199e2	0.98514	0.98514	0.212
2 1,2,3,4,6,7,8-HpCDD	38.56	4.642e3	5.452e3	2.627e2	2.749e2	0.96	NO	5.376e2	0.64594	0.64594	0.212

**Tetra-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Furans function 1**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-6.qld

Last Altered: Monday, December 23, 2019 12:28:43 Pacific Standard Time  
Printed: Monday, December 23, 2019 12:29:31 Pacific Standard Time

Name: 191217K3\_6, Date: 18-Dec-2019, Time: 06:08:15, ID: 1903655-03 PDI-032SC-A-12-12.8-191010 14, Description: PDI-032SC-A-12-12.8-191010

**Penta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hepta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

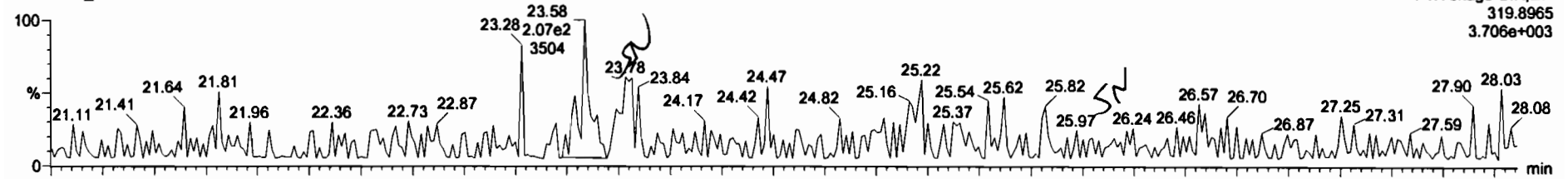
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

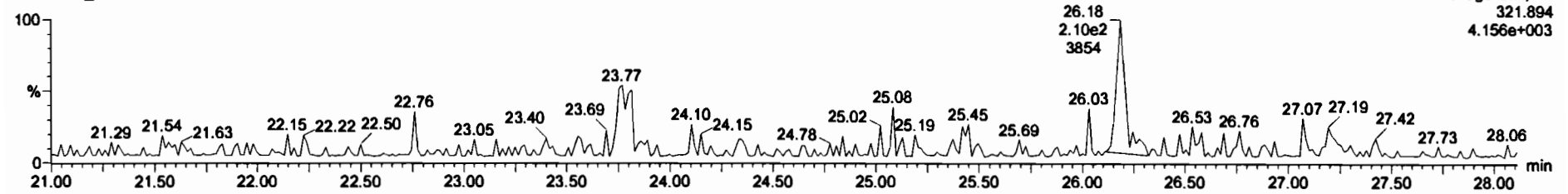
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**2,3,7,8-TCDD**

191217K3\_6

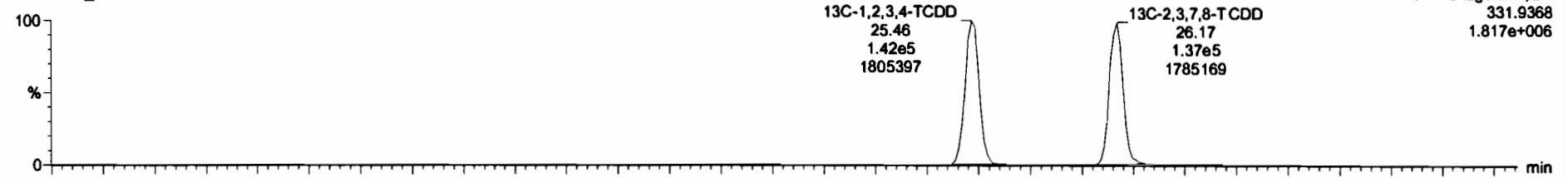


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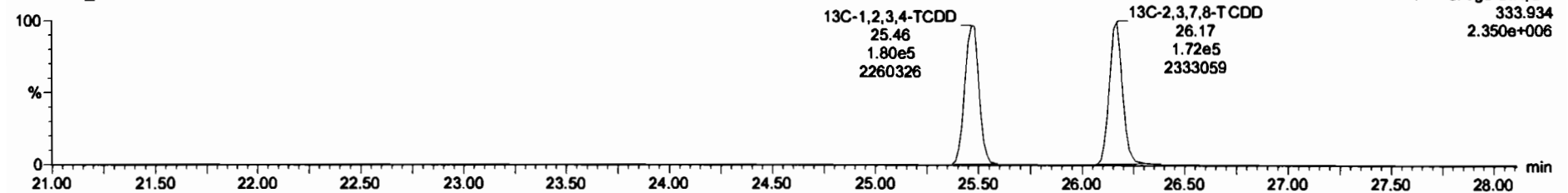


**13C-2,3,7,8-TCDD**

191217K3\_6

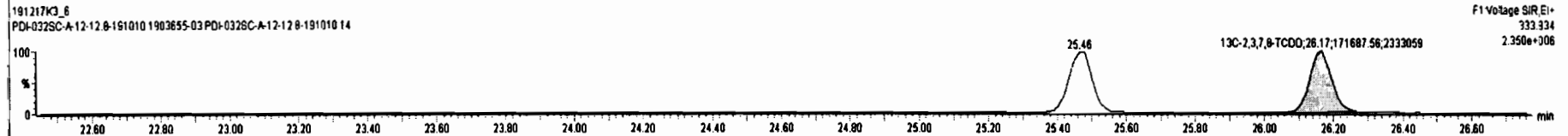
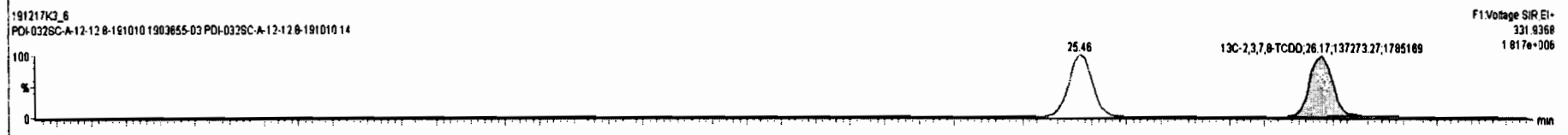
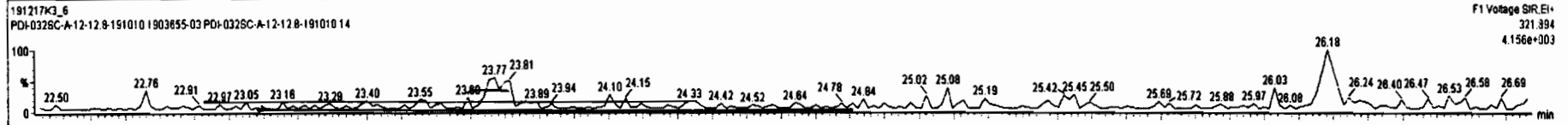
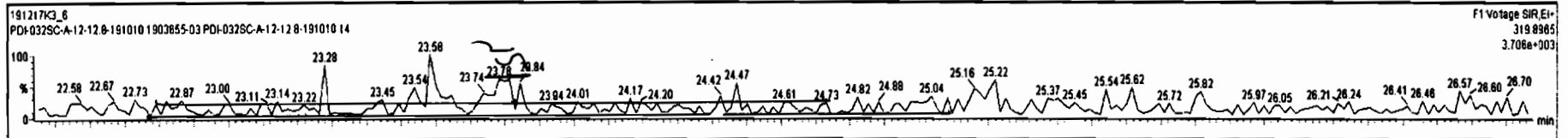


191217K3\_6



#	Name	Resp	RA	n/y	RF	wtWt	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.9249	10.000					0.194	
2	1,2,3,7,8-PeCDD			NO	0.9046	10.000					0.130	
3	1,2,3,4,7,8-HxCDD			NO	1.0891	10.000					0.183	
4	1,2,3,6,7,8-HxCDD			NO	0.9875	10.000					0.166	
5	1,2,3,7,8-HxCDD			NO	0.9778	10.000					0.203	
6	1,2,3,4,6,7,8-HpCDD			NO	1.0375	10.000					0.212	
7	OCDD	3.49e3	1.05	YES	0.9718	10.000	41.85	1.000	4.34		0.500	4.00
8	2,3,7,8-TCDF			NO	0.9376	10.000					0.0766	
9	1,2,3,7,8-PeCDF			NO	0.9762	10.000					0.0528	
10	2,3,4,7,8-PeCDF			NO	1.0049	10.000					0.0453	
11	1,2,3,4,7,8-HxCDF			NO	1.2434	10.000					0.0536	

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1								



Dataset: Untitled

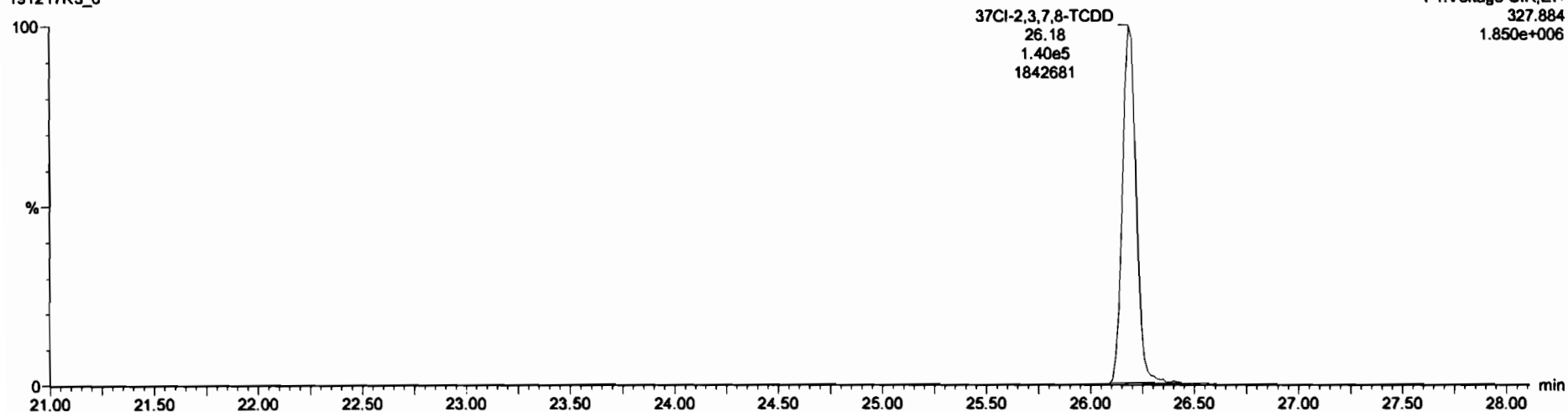
Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_6, Date: 18-Dec-2019, Time: 06:08:15, ID: 1903655-03 PDI-032SC-A-12-12.8-191010 14, Description: PDI-032SC-A-12-12.8-191010

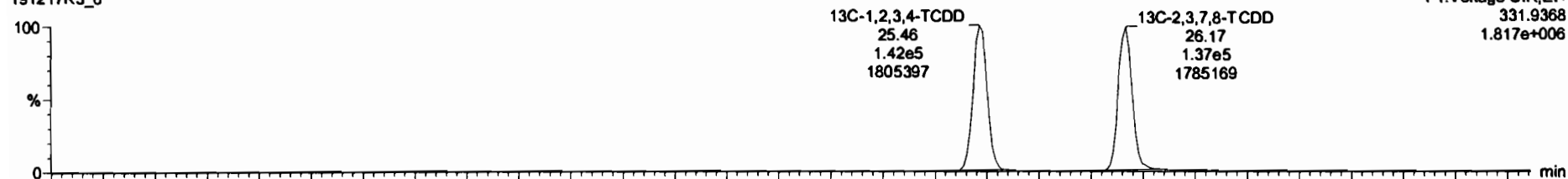
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191217K3\_6

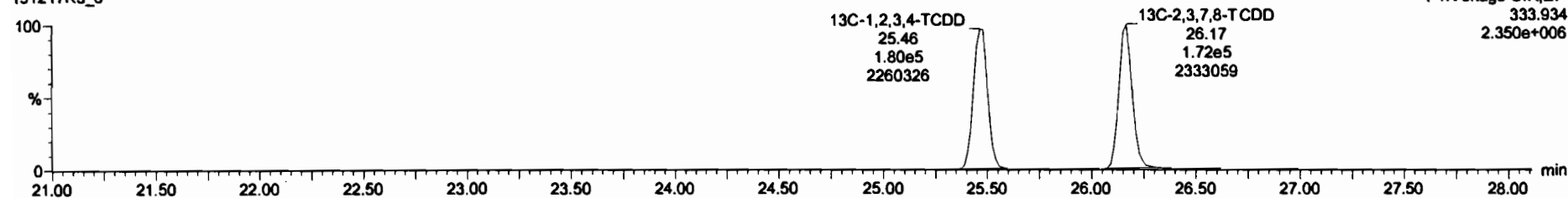


**13C-1,2,3,4-TCDD**

191217K3\_6



191217K3\_6





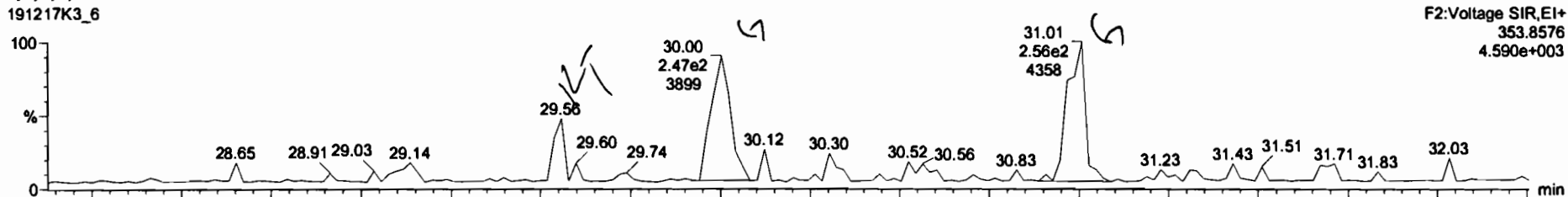
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

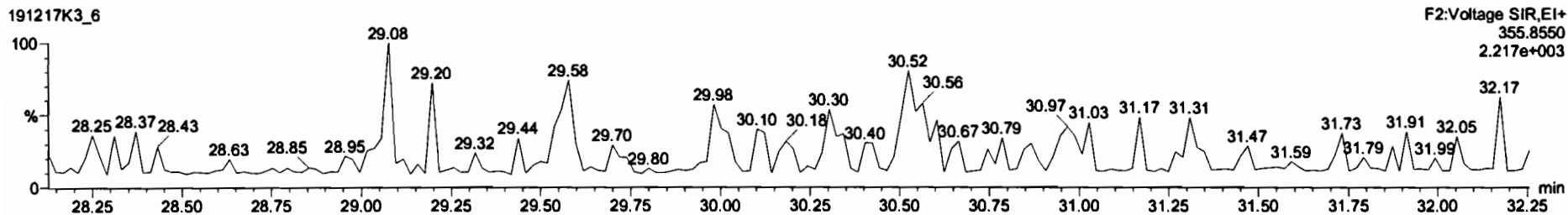
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1,2,3,7,8-PeCDD

191217K3\_6

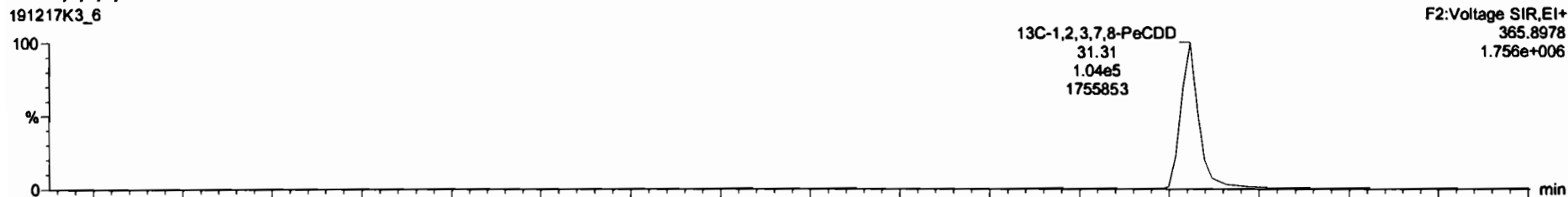


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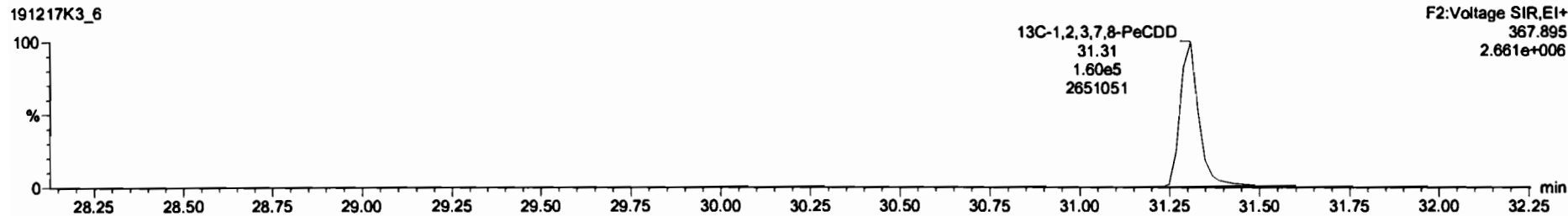


13C-1,2,3,7,8-PeCDD

191217K3\_6

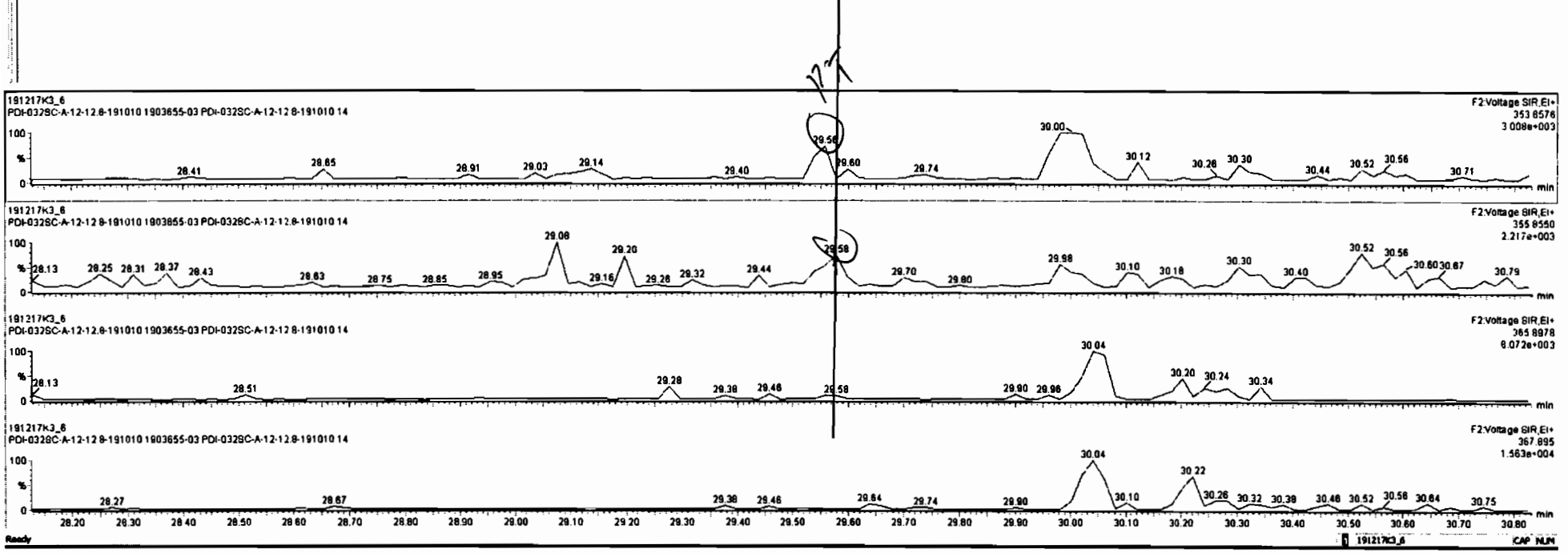


191217K3\_6



#	Name	Resp	RA	nlv	RFI	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
21	13C-1,2,3,6,7,8-HxCDD	2.34e5	1.33	NO	0.7767	10.000	34.76	1.017	164	82.0	0.932	
22	13C-1,2,3,7,8-HxCDD	1.99e5	1.37	NO	0.8585	10.000	35.03	1.025	164	82.0	1.10	
23	13C-1,2,3,4,6,7,8-HxCDD	1.80e5	1.01	NO	0.5342	10.000	36.54	1.126	163	81.7	1.03	
24	13C-OCDD	3.31e5	0.88	NO	0.4704	10.000	41.83	1.224	363	95.7	2.27	
25	13C-2,3,7,8-TCDF	4.77e5	0.75	NO	0.9775	10.000	25.17	0.989	168	84.2	0.594	
26	13C-1,2,3,7,8-PeCDF	3.91e5	1.52	NO	0.7778	10.000	30.00	1.178	173	86.7	0.883	
27	13C-2,3,4,7,8-PeCDF	3.70e5	1.48	NO	0.7486	10.000	30.00	1.217	170	85.1	0.927	
28	13C-1,2,3,4,7,8-HxCDF	2.58e5	0.53	NO	0.8452	10.000	33.79	0.988	167	83.5	1.94	
29	13C-1,2,3,6,7,8-HxCDF	3.21e5	0.54	NO	1.0287	10.000	33.91	0.982	170	85.2	1.60	
30	13C-2,3,4,6,7,8-HxCDF	2.87e5	0.54	NO	0.8826	10.000	34.48	1.008	175	87.3	1.84	
31	13C-1,2,3,7,8-HxCDF	2.47e5	0.52	NO	0.7343	10.000	35.37	1.035	183	91.5	2.24	

#	Name	RT	ret Resp	st2 Resp	RA	nlv	EMPC	Conc.
1								



Dataset: Untitled

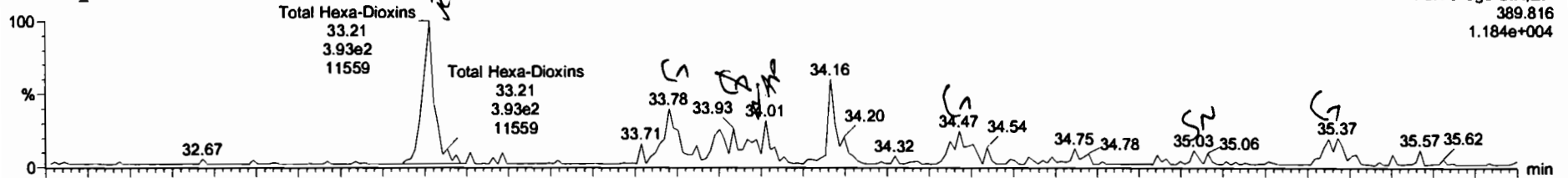
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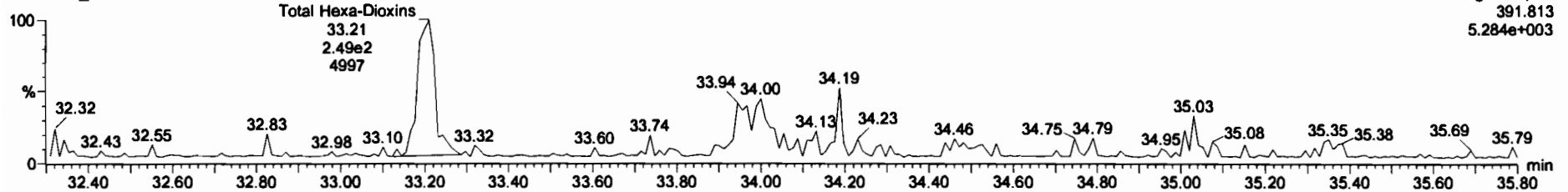
Name: 191217K3\_6, Date: 18-Dec-2019, Time: 06:08:15, ID: 1903655-03 PDI-032SC-A-12-12.8-191010 14, Description: PDI-032SC-A-12-12.8-191010

1,2,3,4,7,8-HxCDD

191217K3\_6

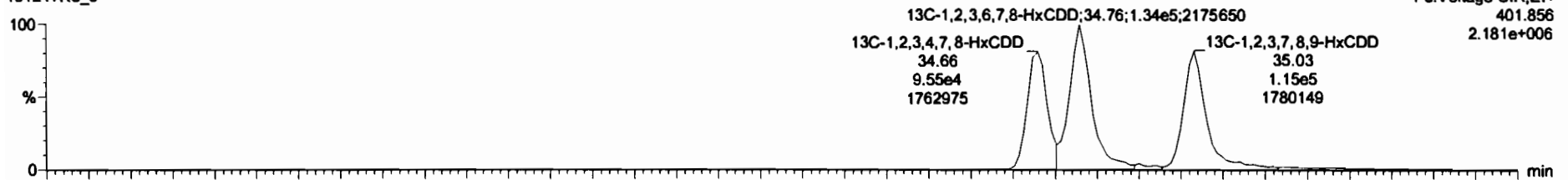


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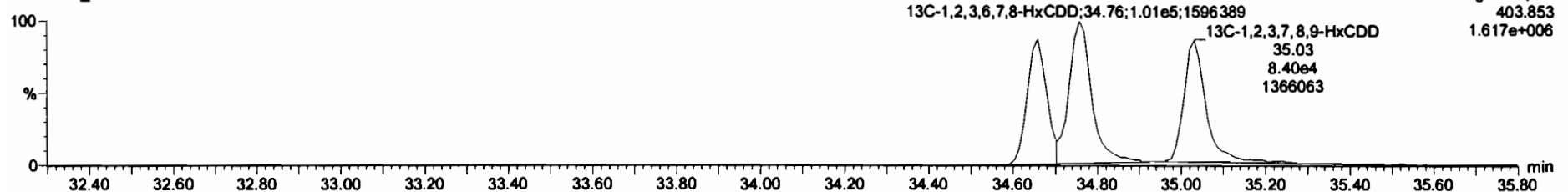


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191217K3\_6

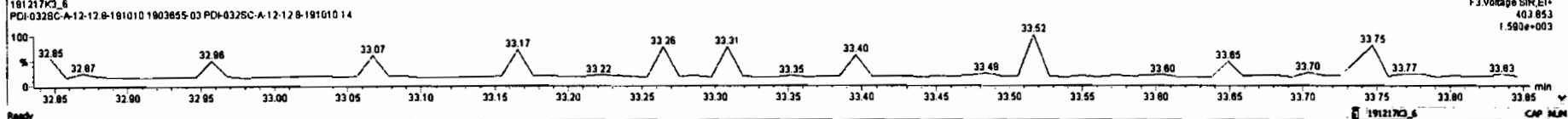
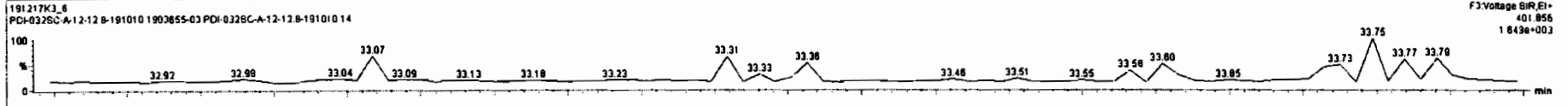
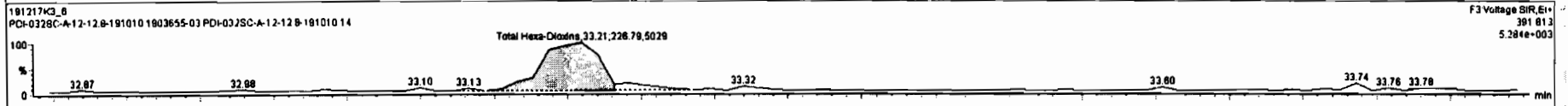
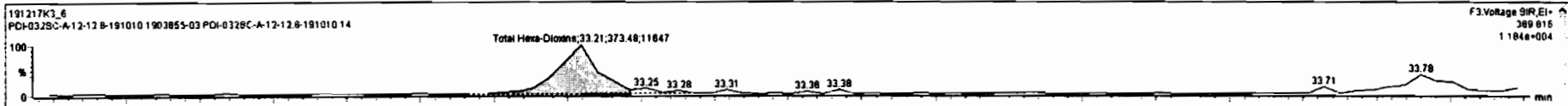


191217K3\_6



#	Name	Resp	RA	July	RWF	wtAvd	RT	RRT	Conc.	%Res	DL	EMPC
28	13C-1,2,3,4,7,8-HxCDF	2.58e5	0.53	NO	0.8452	10.000	33.21	0.888	167	83.5	1.84	
29	13C-1,2,3,6,7,8-HxCDF	3.21e5	0.54	NO	1.0267	10.000	33.81	0.862	170	85.2	1.80	
30	13C-2,3,4,6,7,8-HxCDF	2.87e5	0.54	NO	0.8626	10.000	34.48	1.008	175	87.3	1.84	
31	13C-1,2,3,7,8,9-HxCDF	2.47e5	0.52	NO	0.7343	10.000	35.37	1.035	163	81.5	2.24	
32	13C-1,2,3,4,6,7,8-HxCDF	2.48e5	0.45	NO	0.7542	10.000	37.12	1.086	178	88.4	1.02	
33	13C-1,2,3,4,7,8,9-HxCDF	1.63e5	0.44	NO	0.5380	10.000	38.18	1.148	165	82.5	1.42	
34	13C-OCDF	4.98e5	0.88	NO	0.5825	10.000	42.01	1.229	457	114	1.54	
35	37Cl-2,3,7,8-TCDD	1.40e5			1.0885	10.000	28.18	1.028	80.8	101	0.208	
36	13C-1,2,3,4-TCDD	3.23e5	0.78	NO	1.0000	10.000	25.47	1.000	200	100	0.704	
37	13C-1,2,3,4-TCDF	5.80e5	0.73	NO	1.0000	10.000	22.58	1.000	200	100	0.580	
38	13C-1,2,3,4,6,8-HxCDF	3.88e5	0.54	NO	1.0000	10.000	34.17	1.000	200	100	1.84	

#	Name	RT	rt Resp	m2 Resp	RA	July	EMPC	Conc.
1	Total Hexa-Dioxins	33.21	3.735e2	2.288e2	1.65	YES	0.52282	0.00000



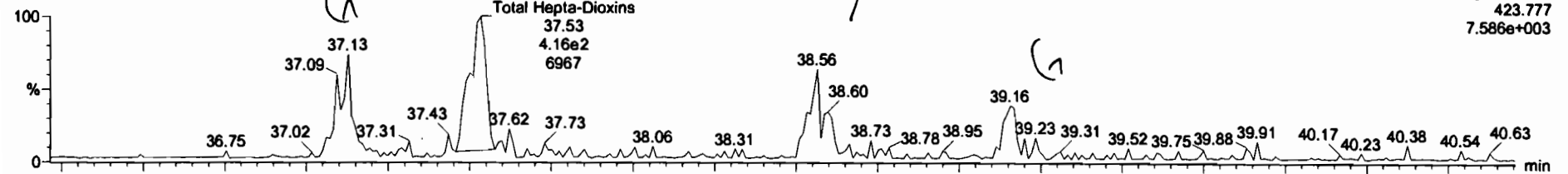
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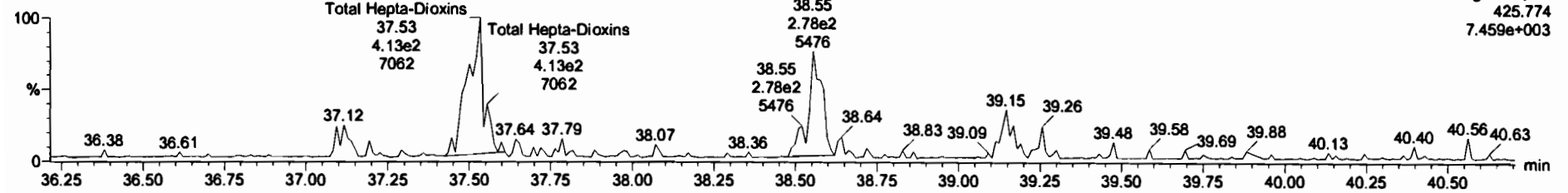
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1,2,3,4,6,7,8-HpCDD

191217K3\_6

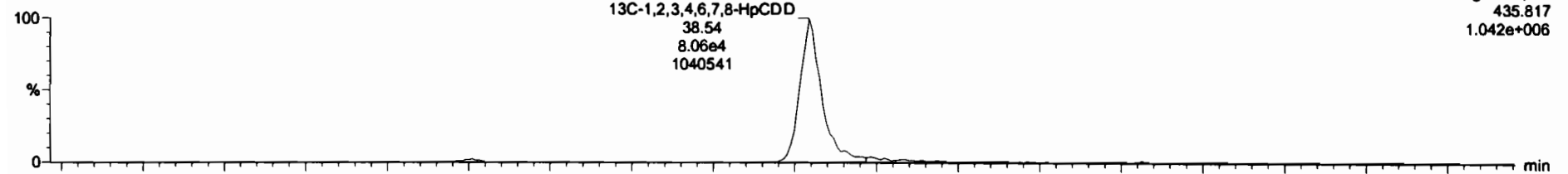


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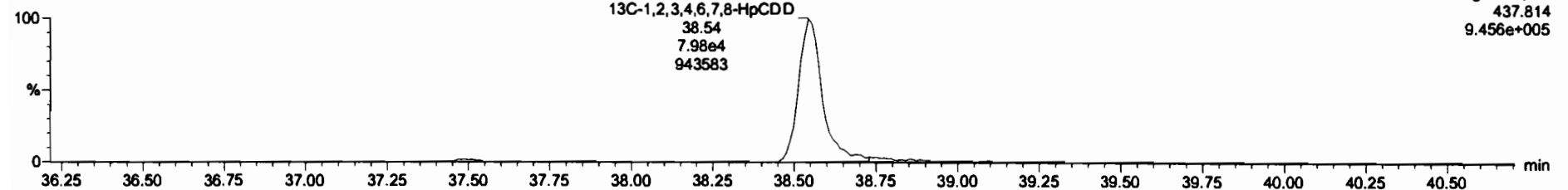


13C-1,2,3,4,6,7,8-HpCDD

191217K3\_6

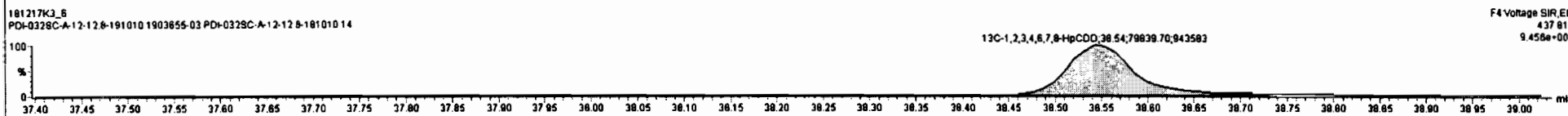
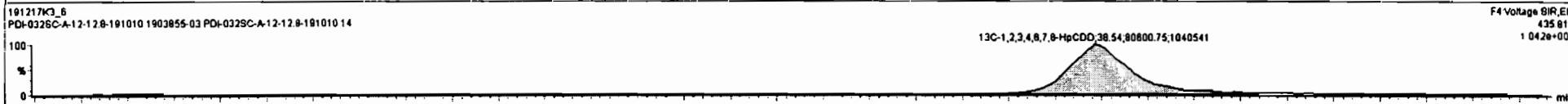
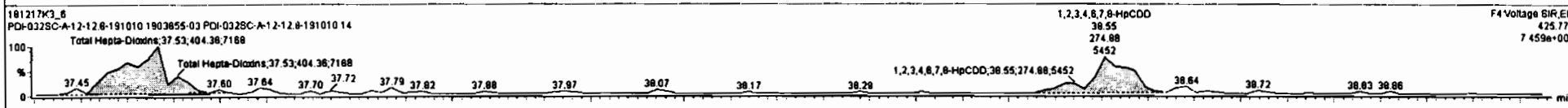
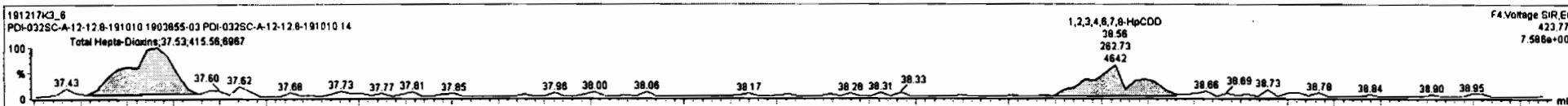


191217K3\_6



#	Name	Resp	RA	n/y	N/F	wt/Vol	RT	NRT	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				1.8576	10.000			1.83		0.212	1.83
43	Total Tetra-Furans				0.9376	10.000					0.0280	
44	1st Func. Penta-Furans				0.9782	10.000					0.0106	
45	Total Penta-Furans				0.9782	10.000					0.0191	
46	Total Hexa-Furans				1.1808	10.000					0.0386	
47	Total Hepta-Furans				1.300	10.000					0.0280	
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											

#	Name	RT	wt Resp	n2 Resp	RA	n/y	EMPC	Conc.
1	Total Hepta-Dioxins	37.53	4.159e2	4.044e2	1.03	NO	0.98514	0.98514
2	1,2,3,4,6,7,8-HpCDD	38.58	2.627e2	2.749e2	0.98	NO	0.84584	0.84584

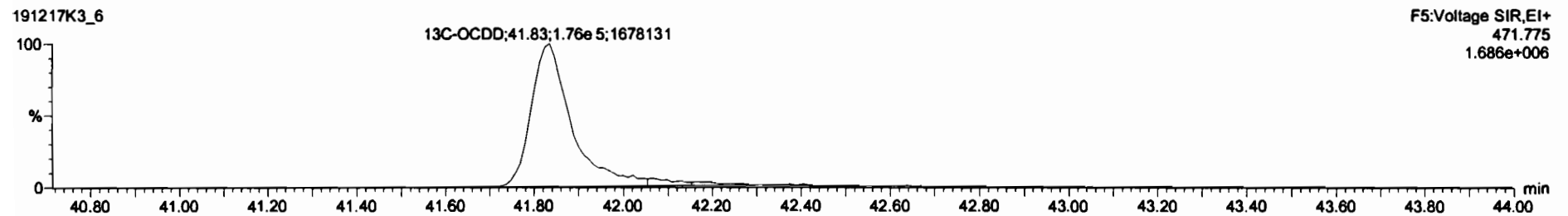
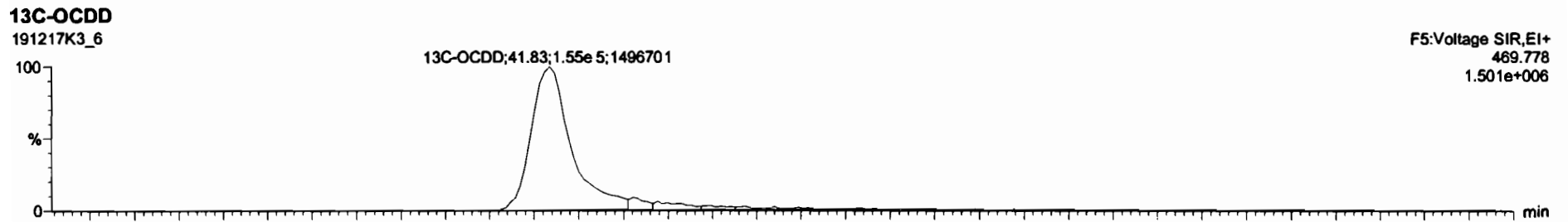
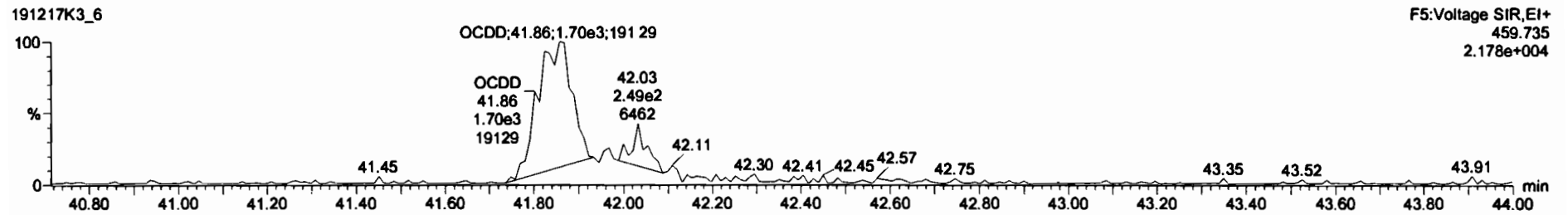
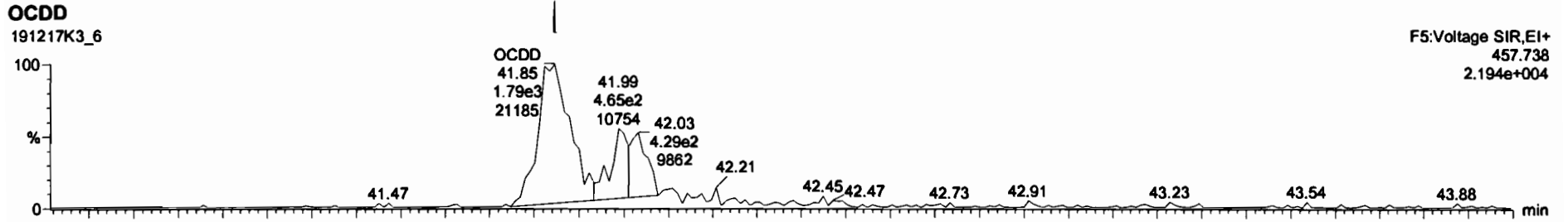


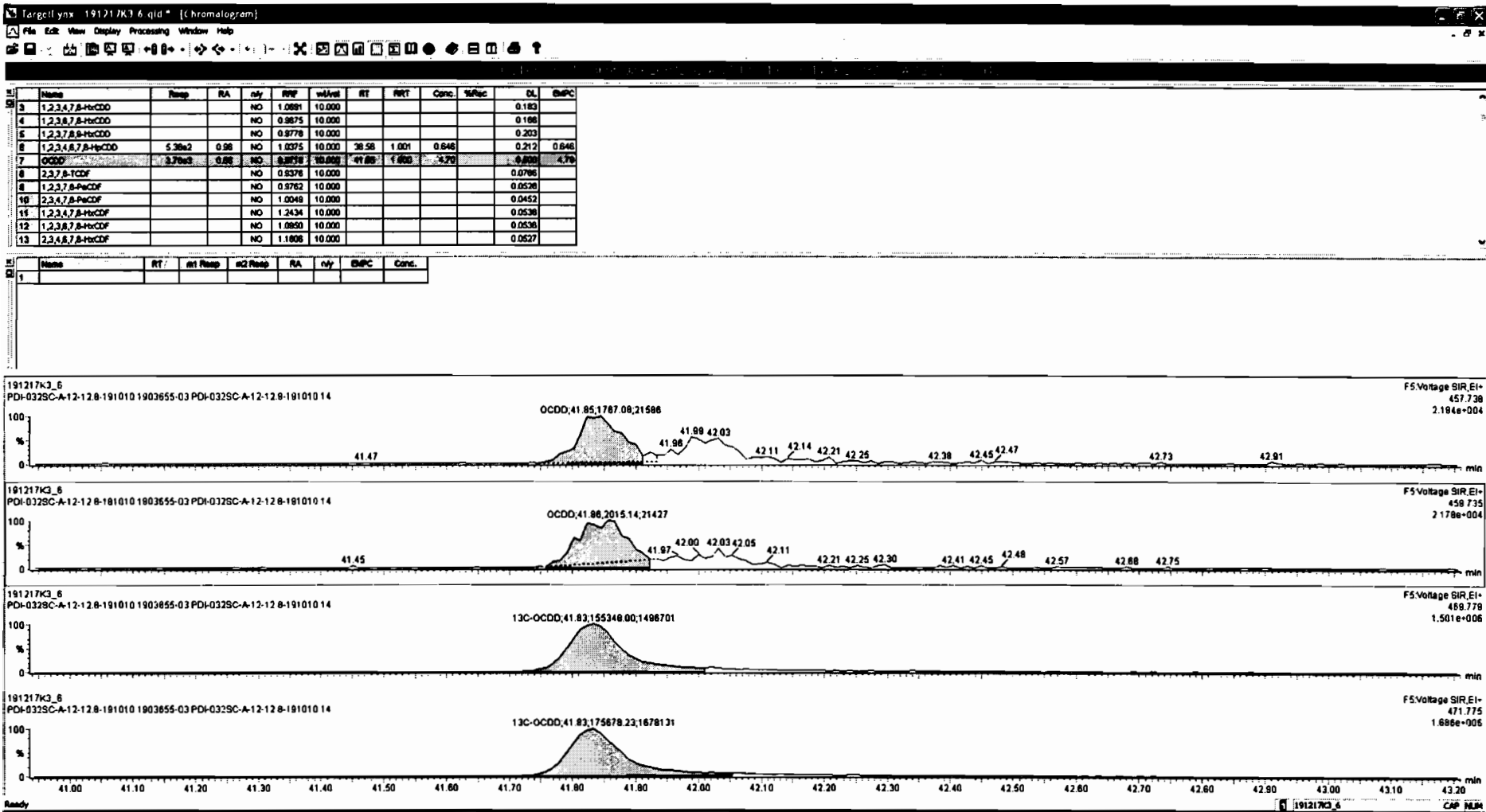
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_6, Date: 18-Dec-2019, Time: 06:08:15, ID: 1903655-03 PDI-032SC-A-12-12.8-191010 14, Description: PDI-032SC-A-12-12.8-191010







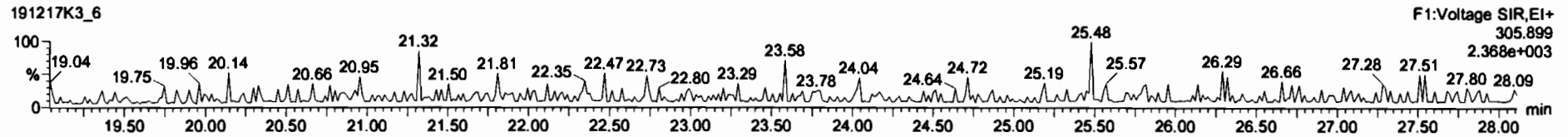
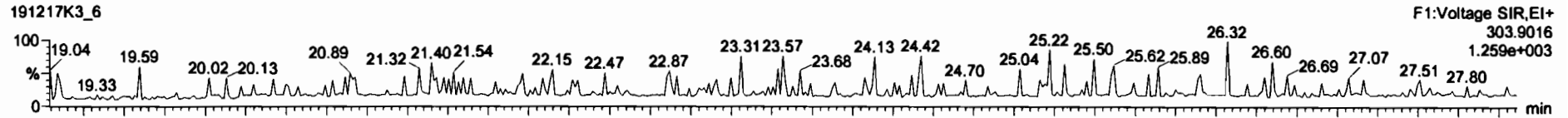
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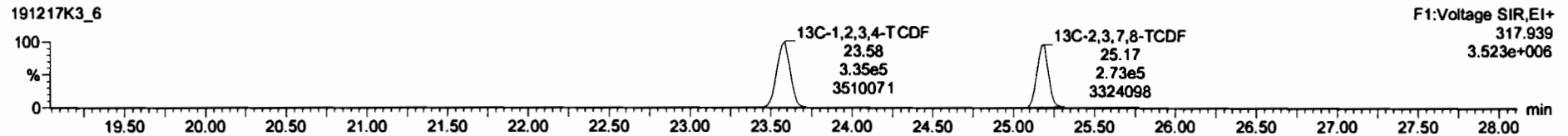
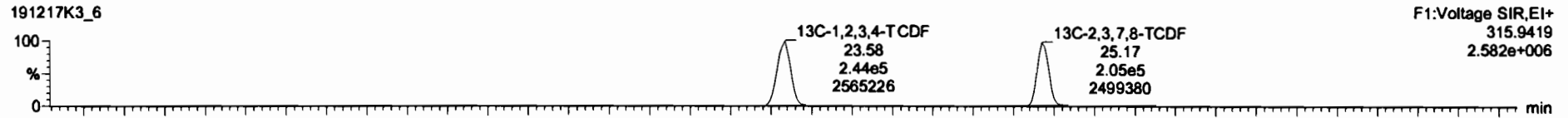
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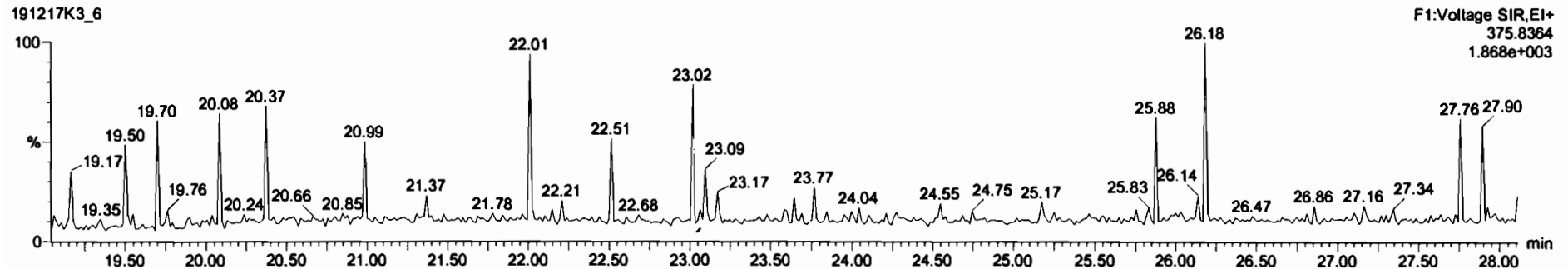
**2,3,7,8-TCDF**



**13C-2,3,7,8-TCDF**



**DPE1**



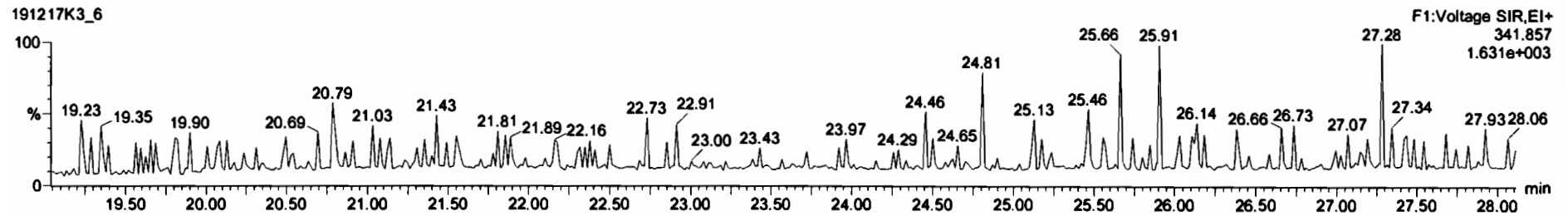
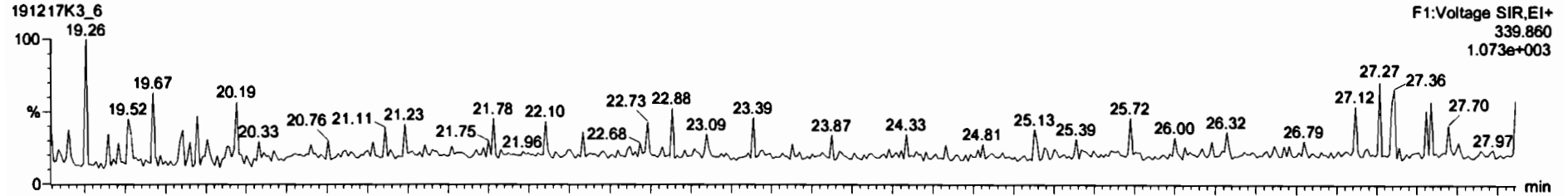
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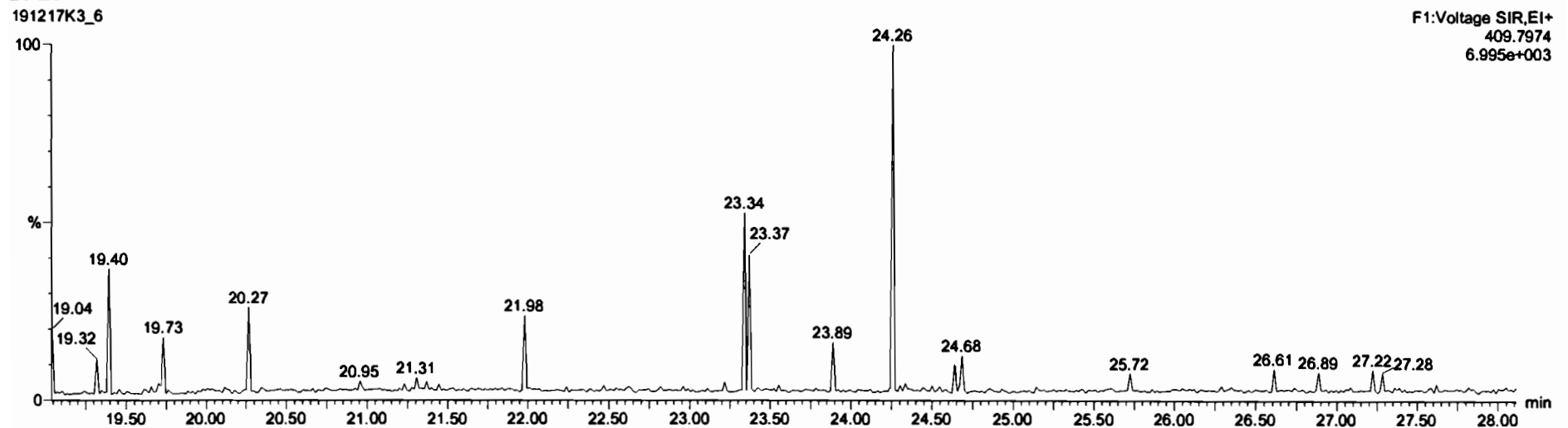
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1st Func. Penta-Furans



DPE6



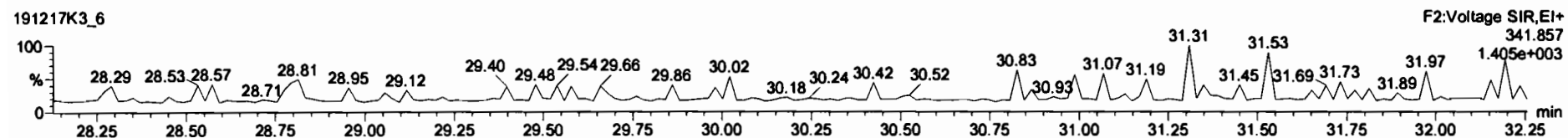
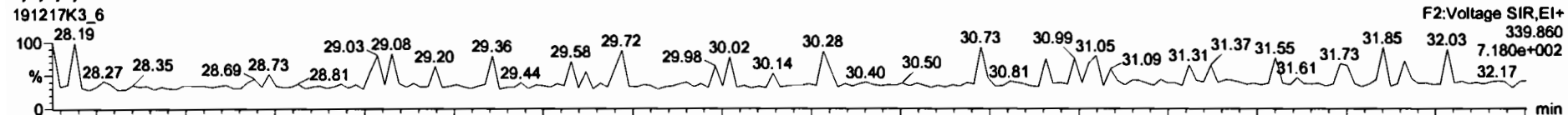
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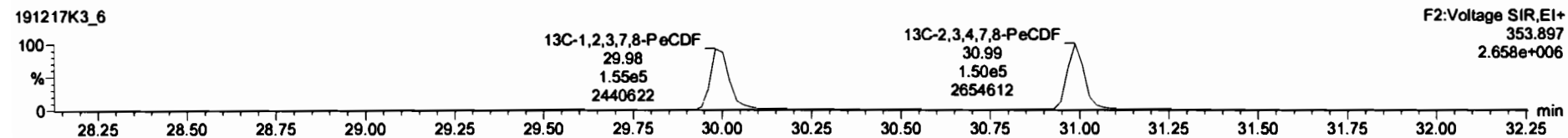
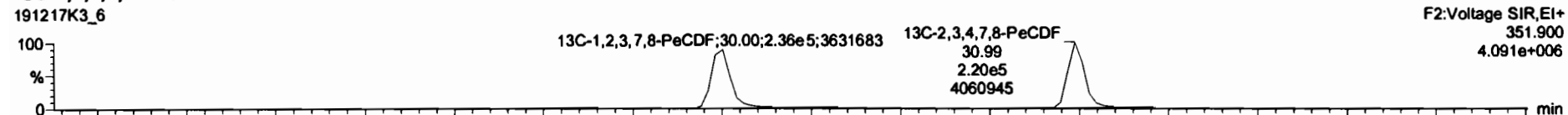
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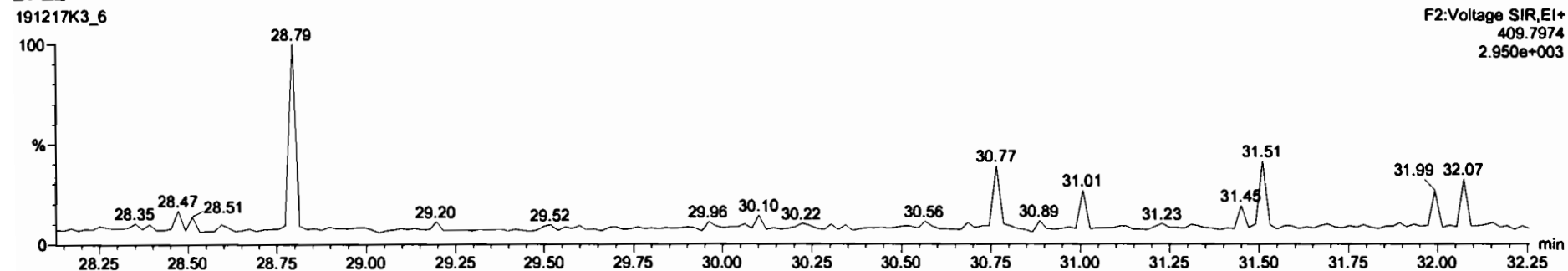
**1,2,3,7,8-PeCDF**



**13C-1,2,3,7,8-PeCDF**



**DPE2**



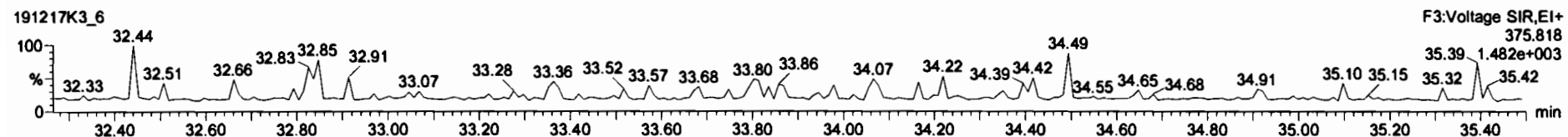
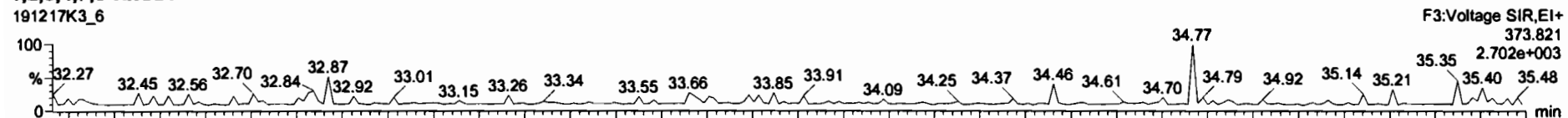
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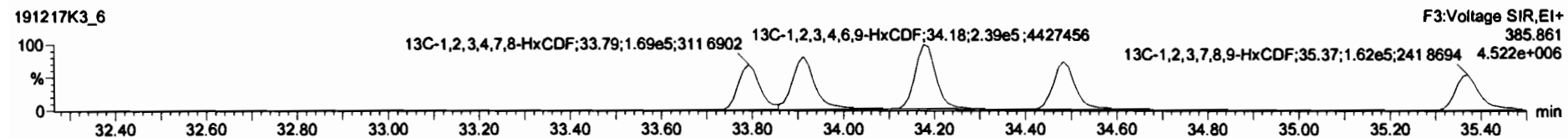
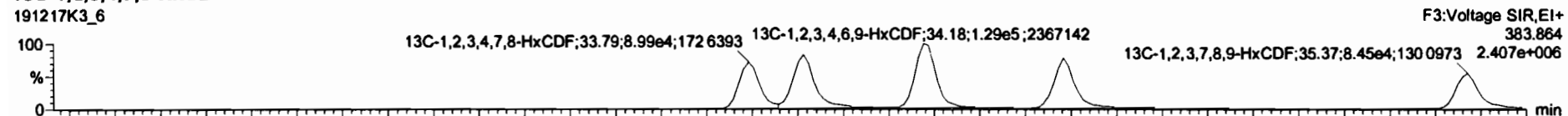
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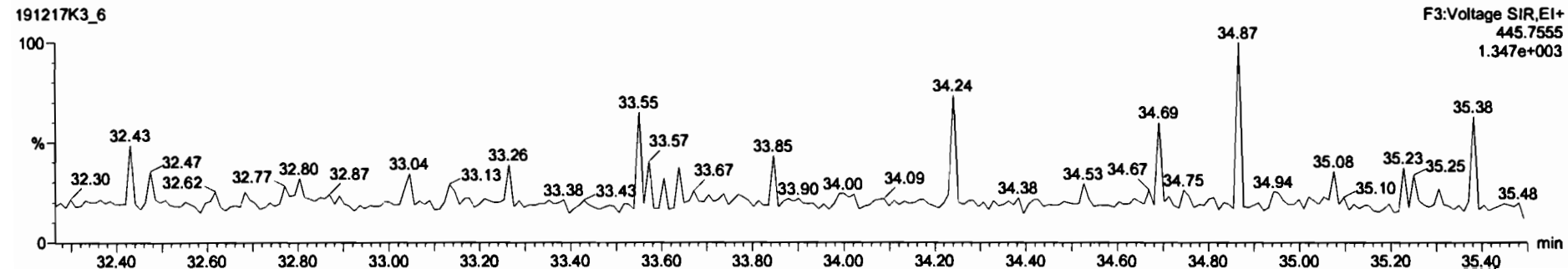
**1,2,3,4,7,8-HxCDF**



**13C-1,2,3,4,7,8-HxCDF**



**DPE3**

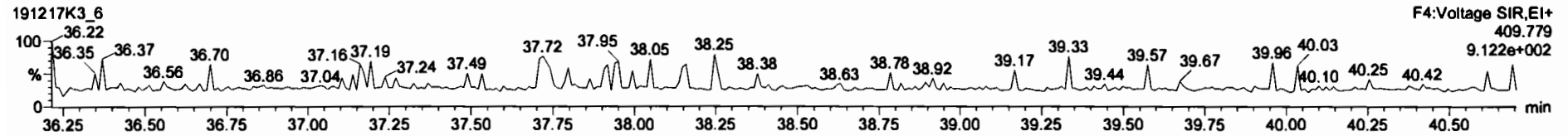
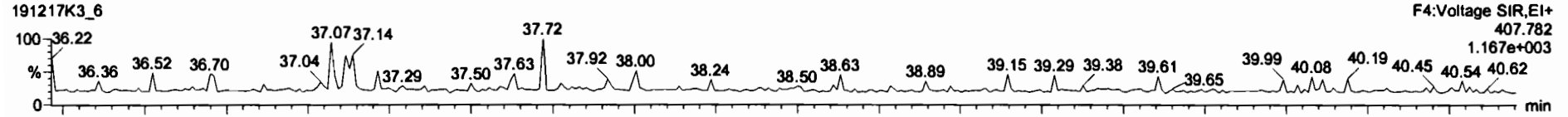


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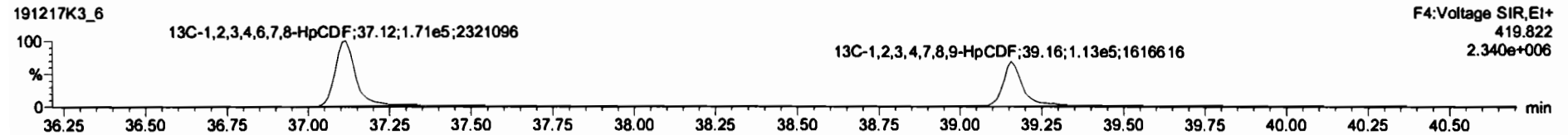
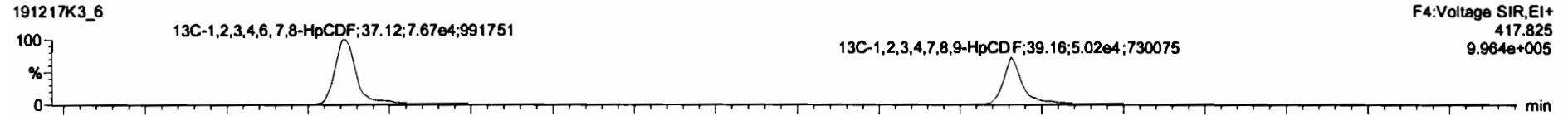
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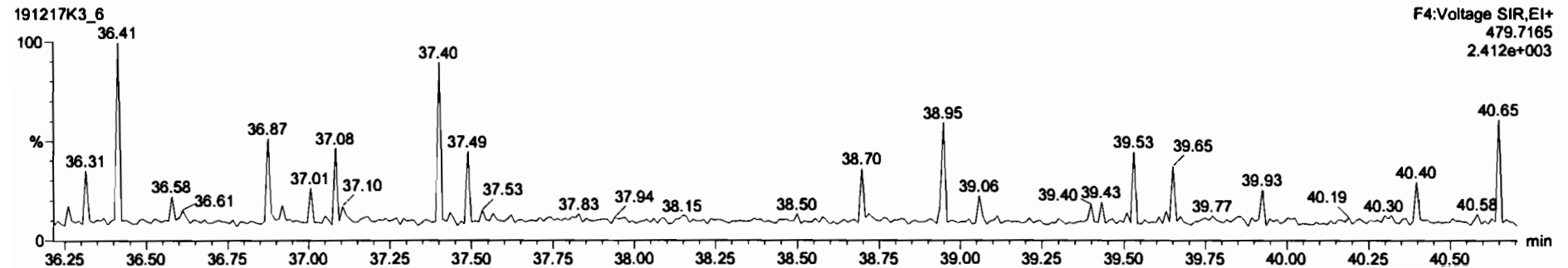
**1,2,3,4,6,7,8-HpCDF**



**13C-1,2,3,4,6,7,8-HpCDF**



**DPE4**

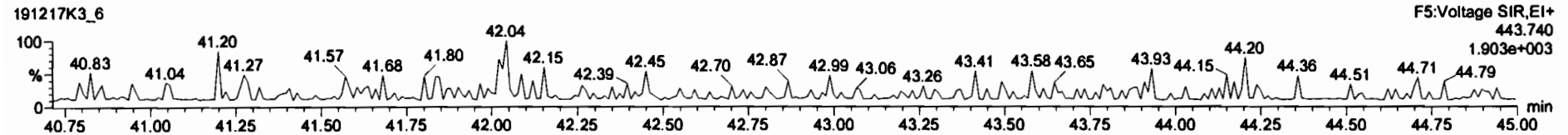
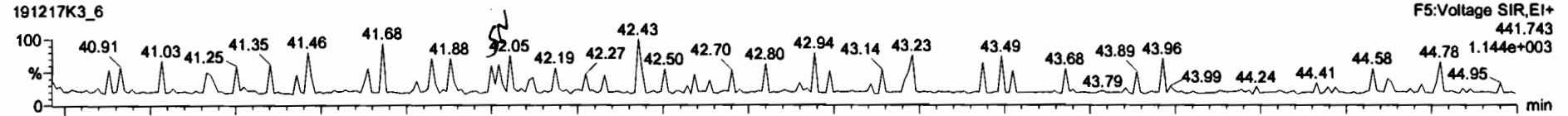


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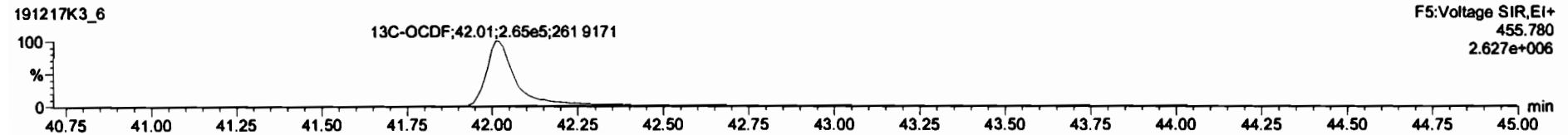
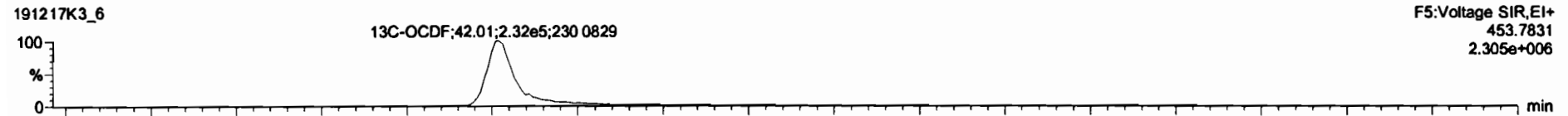
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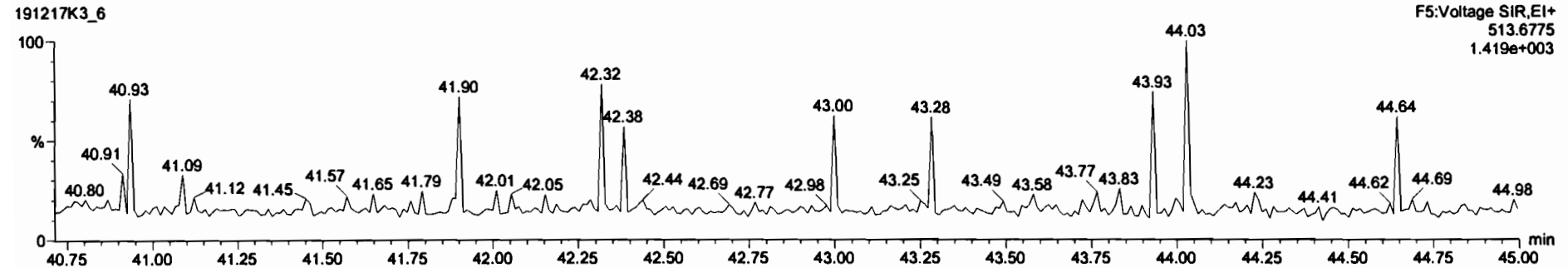
OCDF



13C-OCDF



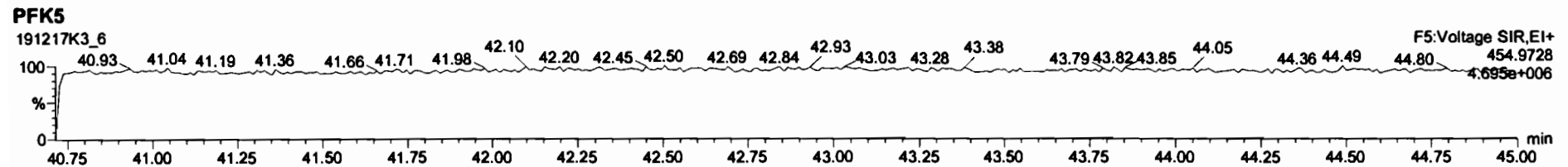
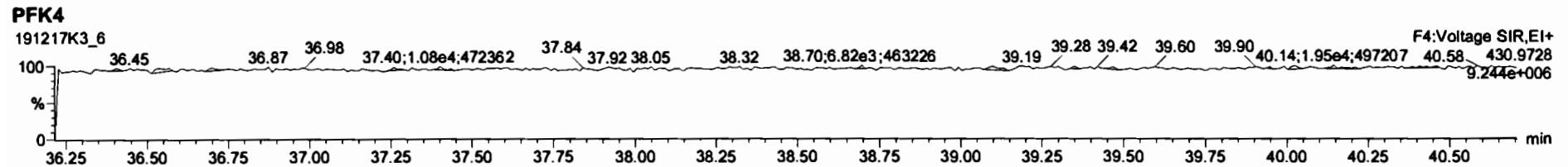
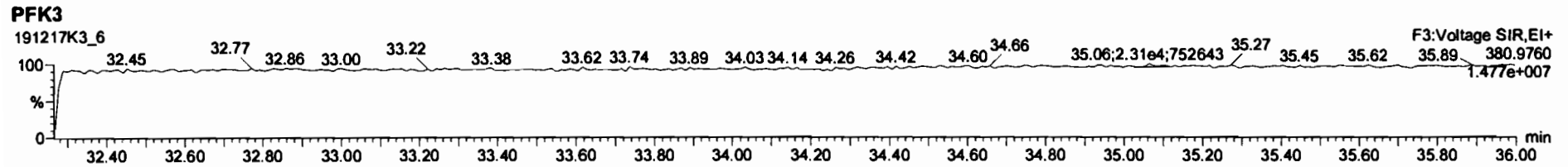
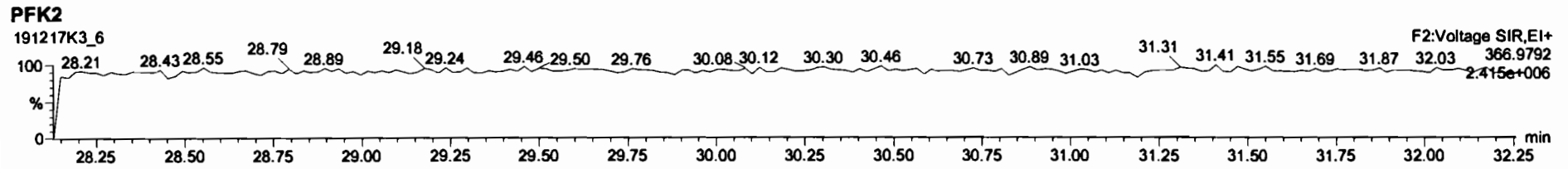
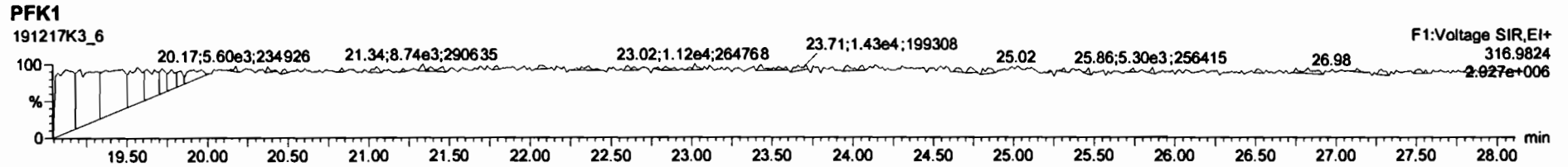
DPE5



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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

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Dataset: U:\VG11.PRO\Results\191217K3\191217K3-7.qld

Last Altered: Tuesday, December 24, 2019 11:26:07 AM Pacific Standard Time

Printed: Tuesday, December 24, 2019 11:26:36 AM Pacific Standard Time

*Hz 12-24-19*

*MW  
1/6/19*

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	4.18e3	0.67	NO	0.925	10.012	26.245	26.24	1.001	1.001	2.2538		0.162	2.25
2	2 1,2,3,7,8-PeCDD	5.17e3	0.52	YES	0.905	10.012	31.331	31.33	1.001	1.001	3.6344		0.253	3.23
3	3 1,2,3,4,7,8-HxCDD	1.12e4	1.14	NO	1.07	10.012	34.679	34.68	1.000	1.000	10.287		1.17	10.3
4	4 1,2,3,6,7,8-HxCDD	8.29e4	1.29	NO	0.967	10.012	34.768	34.78	1.000	1.000	60.269		1.08	60.3
5	5 1,2,3,7,8,9-HxCDD	2.41e4	1.26	NO	0.978	10.012	35.077	35.05	1.001	1.000	20.438		1.46	20.4
6	6 1,2,3,4,6,7,8-HpCDD	4.99e6	1.05	NO	1.04	10.012	38.599	38.59	1.000	1.000	4834.4	E	7.27	4830
7	7 OCDD	2.05e7	0.90	NO	0.972	10.012	41.944	41.96	1.000	1.000	30314	E	10.6	30300
8	8 2,3,7,8-TCDF	3.21e5	0.76	NO	0.938	10.012	25.260	25.25	1.001	1.001	126.16	(98.1)	0.349	126
9	9 1,2,3,7,8-PeCDF	3.58e5	1.58	NO	0.976	10.012	30.042	30.04	1.001	1.001	185.88		0.522	186
10	10 2,3,4,7,8-PeCDF	2.09e5	1.62	NO	1.00	10.012	31.038	31.03	1.001	1.001	99.573		0.403	99.6
11	11 1,2,3,4,7,8-HxCDF	6.52e5	1.25	NO	1.24	10.012	33.802	33.81	1.000	1.000	338.81		0.854	339
12	12 1,2,3,6,7,8-HxCDF	1.95e5	1.23	NO	1.10	10.012	33.933	33.93	1.000	1.000	92.883		0.876	92.9
13	13 2,3,4,6,7,8-HxCDF	4.12e4	1.32	NO	1.18	10.012	34.527	34.51	1.001	1.000	22.016		0.980	22.0
14	14 1,2,3,7,8,9-HxCDF	1.79e4	1.11	NO	1.07	10.012	35.371	35.42	1.000	1.001	12.387		1.43	12.4
15	15 1,2,3,4,6,7,8-HpCDF	4.06e5	1.05	NO	1.13	10.012	37.164	37.15	1.001	1.001	297.08		1.47	297
16	16 1,2,3,4,7,8,9-HpCDF	7.43e4	1.05	NO	1.26	10.012	39.190	39.19	1.000	1.000	65.878		2.00	65.9
17	17 OCDF	1.09e6	0.89	NO	1.10	10.012	42.120	42.13	1.000	1.000	987.02		2.01	987
18	18 13C-2,3,7,8-TCDD	4.00e5	0.75	NO	1.05	10.012	26.209	26.21	1.027	1.028	140.83	70.5	0.462	
19	19 13C-1,2,3,7,8-PeCDD	3.14e5	0.59	NO	0.743	10.012	31.365	31.31	1.230	1.227	156.14	78.2	0.524	
20	20 13C-1,2,3,4,7,8-HxCDD	2.04e5	1.25	NO	0.646	10.012	34.658	34.67	1.014	1.014	114.54	57.3	0.657	
21	21 13C-1,2,3,6,7,8-HxCDD	2.84e5	1.29	NO	0.777	10.012	34.757	34.77	1.017	1.017	132.44	66.3	0.546	
22	22 13C-1,2,3,7,8,9-HxCDD	2.41e5	1.31	NO	0.659	10.012	35.030	35.04	1.025	1.025	132.37	66.3	0.643	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.99e5	1.02	NO	0.534	10.012	38.531	38.59	1.127	1.129	134.81	67.5	0.825	
24	24 13C-OCDD	2.77e5	0.91	NO	0.470	10.012	41.813	41.94	1.223	1.227	213.69	53.5	0.999	
25	25 13C-2,3,7,8-TCDF	5.41e5	0.73	NO	0.977	10.012	25.219	25.24	0.989	0.989	132.86	66.5	0.488	
26	26 13C-1,2,3,7,8-PeCDF	3.95e5	1.51	NO	0.778	10.012	30.051	30.02	1.178	1.177	121.67	60.9	0.730	
27	27 13C-2,3,4,7,8-PeCDF	4.18e5	1.50	NO	0.750	10.012	31.043	31.01	1.217	1.215	133.76	67.0	0.757	
28	28 13C-1,2,3,4,7,8-HxCDF	3.09e5	0.52	NO	0.845	10.012	33.796	33.80	0.989	0.989	132.49	66.3	0.894	
29	29 13C-1,2,3,6,7,8-HxCDF	3.83e5	0.52	NO	1.03	10.012	33.913	33.92	0.992	0.992	134.99	67.6	0.736	
30	30 13C-2,3,4,6,7,8-HxCDF	3.17e5	0.52	NO	0.893	10.012	34.487	34.49	1.009	1.009	128.58	64.4	0.846	
31	31 13C-1,2,3,7,8,9-HxCDF	2.70e5	0.52	NO	0.734	10.012	35.389	35.37	1.035	1.035	133.01	66.6	1.03	



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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	2.42e5	0.45	NO	0.754	10.012	37.105	37.13	1.085	1.086	116.15	58.1	0.813	
33	13C-1,2,3,4,7,8,9-HpCDF	1.79e5	0.44	NO	0.539	10.012	39.133	39.19	1.145	1.146	120.02	60.1	1.14	
34	13C-OCDF	3.99e5	0.82	NO	0.593	10.012	42.001	42.12	1.229	1.232	243.98	61.1	0.842	
35	37Cl-2,3,7,8-TCDD	1.54e5			1.07	10.012	26.229	26.24	1.028	1.029	53.005	66.3	0.0844	
36	13C-1,2,3,4-TCDD	5.41e5	0.76	NO	1.00	10.012	25.450	25.51	1.000	1.000	199.77	100	0.484	
37	13C-1,2,3,4-TCDF	8.33e5	0.74	NO	1.00	10.012	23.550	23.63	1.000	1.000	199.77	100	0.477	
38	13C-1,2,3,4,6,9-HxCDF	5.51e5	0.53	NO	1.00	10.012	34.160	34.19	1.000	1.000	199.77	100	0.756	
39	Total Tetra-Dioxins				0.925	10.012	24.620		0.000		26.347		0.162	31.8
40	Total Penta-Dioxins				0.905	10.012	29.960		0.000		62.817		0.253	66.3
41	Total Hexa-Dioxins				0.967	10.012	33.635		0.000		1266.8		1.27	1270
42	Total Hepta-Dioxins				1.04	10.012	38.800		0.000		11648		7.27	11600
43	Total Tetra-Furans				0.938	10.012	23.610		0.000		350.49		0.349	363
44	1st Func. Penta-Furans				0.976	10.012	27.040		0.000		30.101		0.0740	30.1
45	Total Penta-Furans				0.976	10.012	29.275		0.000		516.48		0.467	516
46	Total Hexa-Furans				1.18	10.012	33.555		0.000		712.03		0.977	715
47	Total Hepta-Furans				1.13	10.012	37.835		0.000		1245.7		1.80	1250

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Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57  
 Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

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Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.98	3.694e4	4.784e4	3.683e3	4.405e3	0.84	NO	8.088e3	4.3659	4.3659	0.162
2	Total Tetra-Dioxins	22.36	2.186e4	2.711e4	1.836e3	2.263e3	0.81	NO	4.100e3	2.2129	2.2129	0.162
3	Total Tetra-Dioxins	22.90	1.837e4	2.816e4	1.809e3	2.254e3	0.80	NO	4.062e3	2.1928	2.1928	0.162
4	Total Tetra-Dioxins	23.84	9.382e3	1.232e4	8.834e2	1.112e3	0.79	NO	1.995e3	1.0768	1.0768	0.162
5	Total Tetra-Dioxins	24.14	3.126e4	3.196e4	3.260e3	3.602e3	0.91	YES	0.000e0	0.00000	3.4415	0.162
6	Total Tetra-Dioxins	24.36	2.820e4	3.076e4	2.393e3	2.839e3	0.84	NO	5.232e3	2.8241	2.8241	0.162
7	Total Tetra-Dioxins	24.59	1.127e4	1.563e4	1.051e3	1.367e3	0.77	NO	2.418e3	1.3049	1.3049	0.162
8	Total Tetra-Dioxins	24.88	1.096e4	1.314e4	9.821e2	1.243e3	0.79	NO	2.226e3	1.2013	1.2013	0.162
9	Total Tetra-Dioxins	25.08	2.178e4	2.236e4	1.669e3	1.888e3	0.88	NO	3.556e3	1.9195	1.9195	0.162
10	Total Tetra-Dioxins	25.48	2.158e4	2.088e4	1.695e3	1.671e3	1.01	YES	0.000e0	0.00000	1.5961	0.162
11	Total Tetra-Dioxins	25.65	6.093e3	8.999e3	4.908e2	7.020e2	0.70	NO	1.193e3	0.64384	0.64384	0.162
12	Total Tetra-Dioxins	25.94	2.458e4	3.176e4	2.430e3	2.769e3	0.88	NO	5.198e3	2.8059	2.8059	0.162
13	Total Tetra-Dioxins	26.08	8.899e3	1.290e4	6.874e2	8.980e2	0.77	NO	1.585e3	0.85574	0.85574	0.162
14	2,3,7,8-TCDD	26.24	2.318e4	3.419e4	1.679e3	2.496e3	0.67	NO	4.175e3	2.2538	2.2538	0.162
15	Total Tetra-Dioxins	26.57	2.206e4	2.406e4	1.530e3	1.756e3	0.87	NO	3.286e3	1.7739	1.7739	0.162
16	Total Tetra-Dioxins	26.70	7.327e3	6.487e3	4.205e2	4.483e2	0.94	YES	0.000e0	0.00000	0.42827	0.162
17	Total Tetra-Dioxins	27.27	8.630e3	1.460e4	7.022e2	9.951e2	0.71	NO	1.697e3	0.91612	0.91612	0.162

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**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.10	1.130e5	1.835e5	9.387e3	1.485e4	0.63	NO	2.424e4	17.033	17.033	0.253
2	Total Penta-Dioxins	29.58	8.648e4	1.399e5	5.087e3	8.010e3	0.64	NO	1.310e4	9.2045	9.2045	0.253
3	Total Penta-Dioxins	30.08	6.939e4	1.090e5	3.927e3	5.464e3	0.72	NO	9.391e3	6.5997	6.5997	0.253
4	Total Penta-Dioxins	30.24	4.897e4	7.385e4	2.941e3	4.529e3	0.65	NO	7.470e3	5.2498	5.2498	0.253
5	Total Penta-Dioxins	30.34	2.980e4	5.860e4	1.859e3	2.914e3	0.64	NO	4.774e3	3.3549	3.3549	0.253
6	Total Penta-Dioxins	30.57	8.332e4	1.257e5	7.890e3	1.225e4	0.64	NO	2.014e4	14.154	14.154	0.253
7	Total Penta-Dioxins	30.89	2.416e4	3.422e4	1.266e3	1.990e3	0.64	NO	3.257e3	2.2888	2.2888	0.253
8	Total Penta-Dioxins	30.99	4.267e3	3.543e3	1.677e2	2.002e2	0.84	YES	0.000e0	0.00000	0.22938	0.253
9	1,2,3,7,8-PeCDD	31.33	3.481e4	6.092e4	1.774e3	3.397e3	0.52	YES	5.171e3	0.00000	3.2257	0.253
10	Total Penta-Dioxins	31.41	2.912e4	4.354e4	1.720e3	2.648e3	0.65	NO	4.367e3	3.0694	3.0694	0.253
11	Total Penta-Dioxins	31.71	2.069e4	3.494e4	9.975e2	1.653e3	0.60	NO	2.651e3	1.8629	1.8629	0.253

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.21	7.651e6	5.910e6	3.871e5	3.030e5	1.28	NO	6.900e5	586.09	586.09	1.27
2	Total Hexa-Dioxins	33.76	7.296e5	5.576e5	3.584e4	2.814e4	1.27	NO	6.399e4	54.348	54.348	1.27
3	Total Hexa-Dioxins	34.01	4.112e6	3.223e6	2.848e5	2.257e5	1.26	NO	5.105e5	433.62	433.62	1.27
4	Total Hexa-Dioxins	34.11	7.358e5	6.287e5	4.781e4	3.700e4	1.29	NO	8.481e4	72.030	72.030	1.27
5	1,2,3,4,7,8-HxCDD	34.68	1.056e5	9.211e4	6.005e3	5.245e3	1.14	NO	1.125e4	10.287	10.287	1.17
6	1,2,3,6,7,8-HxCDD	34.78	7.921e5	6.606e5	4.667e4	3.621e4	1.29	NO	8.289e4	60.269	60.269	1.08
7	Total Hexa-Dioxins	34.95	3.369e5	2.527e5	1.962e4	1.539e4	1.27	NO	3.501e4	29.738	29.738	1.27
8	1,2,3,7,8,9-HxCDD	35.05	2.281e5	1.866e5	1.346e4	1.065e4	1.26	NO	2.411e4	20.438	20.438	1.46

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.54	4.602e7	4.403e7	3.593e6	3.442e6	1.04	NO	7.035e6	6813.2	6813.2	7.27
2	1,2,3,4,6,7,8-HpCDD	38.59	2.887e7	2.758e7	2.551e6	2.440e6	1.05	NO	4.992e6	4834.4	4834.4	7.27

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**Tetra-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Tetra-Furans	20.40	4.490e4	5.335e4	3.852e3	4.667e3	0.83	NO	8.518e3	3.3520	3.3520	0.349
2 Total Tetra-Furans	21.00	1.999e5	2.466e5	1.691e4	2.091e4	0.81	NO	3.782e4	14.882	14.882	0.349
3 Total Tetra-Furans	21.55	4.969e4	6.107e4	8.108e3	1.016e4	0.80	NO	1.827e4	7.1886	7.1886	0.349
4 Total Tetra-Furans	21.93	2.583e5	3.095e5	2.775e4	3.579e4	0.78	NO	6.354e4	25.003	25.003	0.349
5 Total Tetra-Furans	22.39	1.147e5	1.381e5	9.315e3	1.131e4	0.82	NO	2.063e4	8.1171	8.1171	0.349
6 Total Tetra-Furans	22.55	3.434e4	4.609e4	3.132e3	4.151e3	0.75	NO	7.282e3	2.8657	2.8657	0.349
7 Total Tetra-Furans	22.73	6.521e4	8.624e4	6.540e3	8.053e3	0.81	NO	1.459e4	5.7426	5.7426	0.349
8 Total Tetra-Furans	23.17	9.552e3	1.174e4	8.633e2	1.315e3	0.66	NO	2.178e3	0.85720	0.85720	0.349
9 Total Tetra-Furans	23.32	2.145e4	2.666e4	1.841e3	2.531e3	0.73	NO	4.373e3	1.7206	1.7206	0.349
10 Total Tetra-Furans	23.54	8.469e4	1.163e5	5.659e3	7.602e3	0.74	NO	1.326e4	5.2184	5.2184	0.349
11 Total Tetra-Furans	23.63	2.157e5	2.711e5	2.397e4	3.115e4	0.77	NO	5.512e4	21.691	21.691	0.349
12 Total Tetra-Furans	24.23	1.278e6	1.640e6	1.189e5	1.517e5	0.78	NO	2.707e5	106.51	106.51	0.349
13 Total Tetra-Furans	24.53	5.465e4	6.875e4	4.759e3	5.654e3	0.84	NO	1.041e4	4.0975	4.0975	0.349
14 Total Tetra-Furans	24.78	1.957e4	2.784e4	1.740e3	2.272e3	0.77	NO	4.012e3	1.5787	1.5787	0.349
15 Total Tetra-Furans	25.02	2.345e4	2.789e4	1.688e3	2.039e3	0.83	NO	3.728e3	1.4668	1.4668	0.349
16 Total Tetra-Furans	25.13	1.938e5	2.723e5	1.586e4	1.749e4	0.91	YES	0.000e0	0.00000	12.183	0.349
17 2,3,7,8-TCDF	25.25	1.614e6	2.061e6	1.386e5	1.820e5	0.76	NO	3.206e5	126.16	126.16	0.349
18 Total Tetra-Furans	25.66	1.224e5	1.657e5	9.942e3	1.346e4	0.74	NO	2.340e4	9.2079	9.2079	0.349
19 Total Tetra-Furans	25.91	1.492e4	1.551e4	1.151e3	1.417e3	0.81	NO	2.568e3	1.0104	1.0104	0.349
20 Total Tetra-Furans	27.39	1.267e5	1.511e5	4.077e3	5.641e3	0.72	NO	9.718e3	3.8241	3.8241	0.349

**Penta-Furans function 1**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 1st Func. Penta-Furans	27.45	4.569e5	2.724e5	3.667e4	2.310e4	1.59	NO	5.978e4	30.101	30.101	0.0740

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**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.87	1.114e5	7.222e4	6.391e3	4.173e3	1.53	NO	1.056e4	5.3191	5.3191	0.467
2	Total Penta-Furans	29.03	1.900e6	1.240e6	1.257e5	8.283e4	1.52	NO	2.085e5	105.00	105.00	0.467
3	Total Penta-Furans	29.10	1.598e5	1.006e5	5.068e3	3.128e3	1.62	NO	8.195e3	4.1267	4.1267	0.467
4	Total Penta-Furans	29.62	2.326e5	1.531e5	1.564e4	9.900e3	1.58	NO	2.554e4	12.863	12.863	0.467
5	Total Penta-Furans	29.68	6.200e4	3.613e4	2.291e3	1.475e3	1.55	NO	3.766e3	1.8962	1.8962	0.467
6	Total Penta-Furans	29.84	4.840e5	3.065e5	2.715e4	1.696e4	1.60	NO	4.411e4	22.212	22.212	0.467
7	1,2,3,7,8-PeCDF	30.04	3.135e6	2.056e6	2.193e5	1.391e5	1.58	NO	3.584e5	185.88	185.88	0.522
8	Total Penta-Furans	30.12	1.271e5	7.690e4	6.037e3	3.514e3	1.72	NO	9.551e3	4.8097	4.8097	0.467
9	Total Penta-Furans	30.30	1.551e6	9.670e5	8.529e4	5.378e4	1.59	NO	1.391e5	70.031	70.031	0.467
10	2,3,4,7,8-PeCDF	31.03	1.976e6	1.187e6	1.295e5	7.993e4	1.62	NO	2.095e5	99.573	99.573	0.403
11	Total Penta-Furans	31.95	1.057e5	6.270e4	5.807e3	3.677e3	1.58	NO	9.484e3	4.7759	4.7759	0.467

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.69	1.187e5	9.327e4	1.221e4	1.053e4	1.16	NO	2.274e4	12.040	12.040	0.977
2	Total Hexa-Furans	32.86	1.889e6	1.436e6	7.922e4	6.273e4	1.26	NO	1.419e5	75.158	75.158	0.977
3	Total Hexa-Furans	33.18	2.887e4	2.092e4	1.603e3	1.139e3	1.41	NO	2.742e3	1.4516	1.4516	0.977
4	Total Hexa-Furans	33.36	2.843e6	2.279e6	1.417e5	1.146e5	1.24	NO	2.563e5	135.70	135.70	0.977
5	Total Hexa-Furans	33.72	7.391e4	5.709e4	3.922e3	2.481e3	1.58	YES	0.000e0	0.00000	2.9423	0.977
6	1,2,3,4,7,8-HxCDF	33.81	6.587e6	5.327e6	3.619e5	2.900e5	1.25	NO	6.519e5	338.81	338.81	0.854
7	1,2,3,6,7,8-HxCDF	33.93	1.884e6	1.464e6	1.073e5	8.752e4	1.23	NO	1.948e5	92.883	92.883	0.876
8	2,3,4,6,7,8-HxCDF	34.51	4.042e5	3.067e5	2.347e4	1.777e4	1.32	NO	4.124e4	22.016	22.016	0.980
9	1,2,3,7,8,9-HxCDF	35.42	4.102e5	3.318e5	9.440e3	8.495e3	1.11	NO	1.794e4	12.387	12.387	1.43
10	Total Hexa-Furans	35.43	4.868e5	3.738e5	2.321e4	1.754e4	1.32	NO	4.076e4	21.580	21.580	0.977

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Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1,2,3,4,6,7,8-HpCDF	37.15	2.732e6	2.594e6	2.079e5	1.985e5	1.05	NO	4.064e5	297.08	297.08	1.47
Total Hepta-Furans	37.56	7.761e4	7.809e4	6.504e3	6.442e3	1.01	NO	1.295e4	10.888	10.888	1.80
Total Hepta-Furans	37.74	6.506e6	6.395e6	5.281e5	5.086e5	1.04	NO	1.037e6	871.90	871.90	1.80
1,2,3,4,7,8,9-HpCDF	39.19	4.824e5	4.542e5	3.799e4	3.628e4	1.05	NO	7.426e4	65.878	65.878	2.00

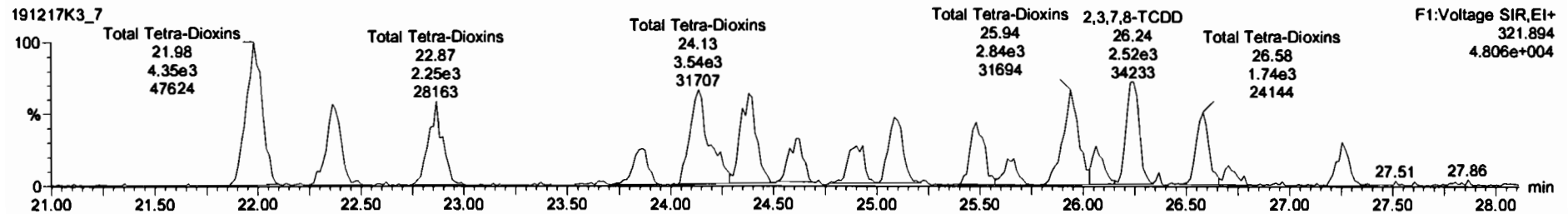
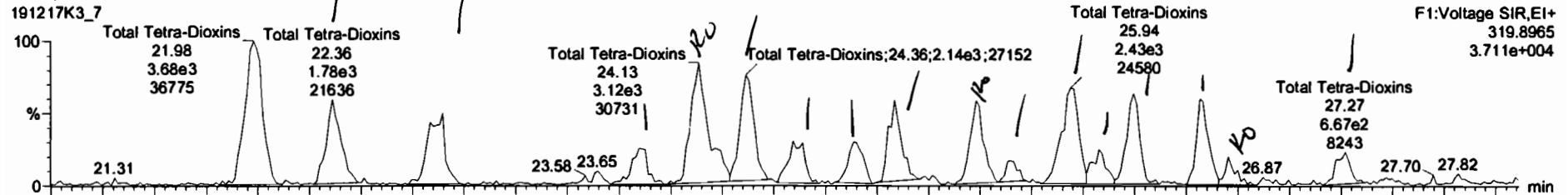
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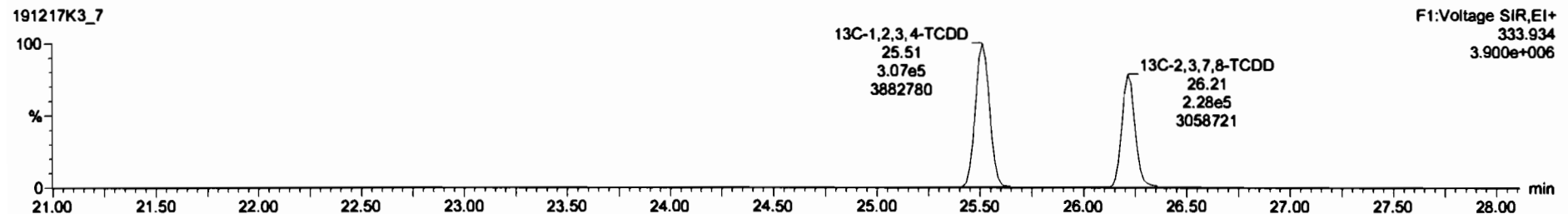
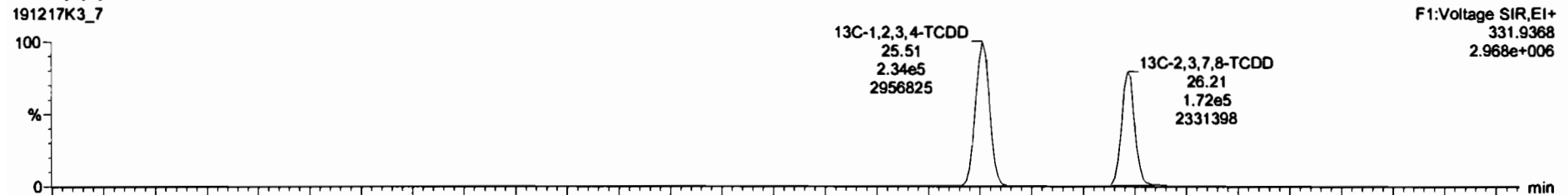
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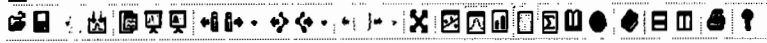
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2,3,7,8-TCDD



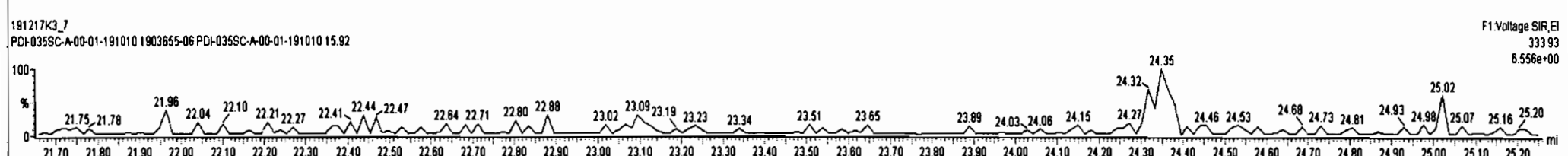
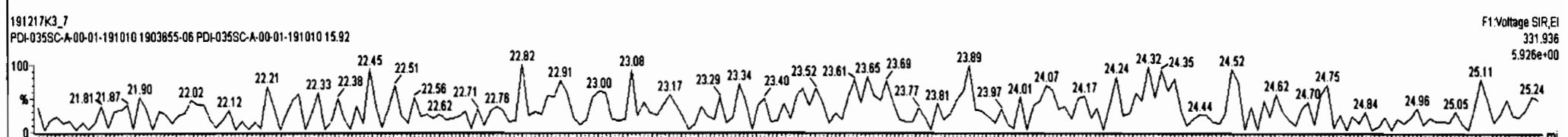
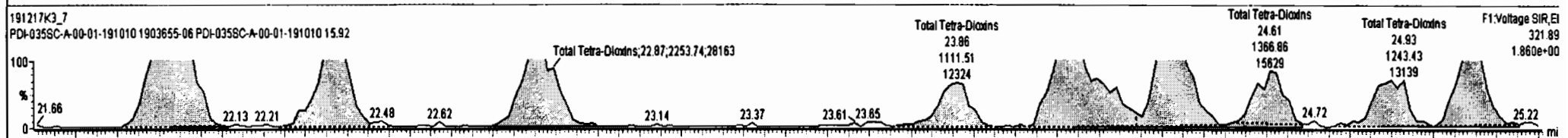
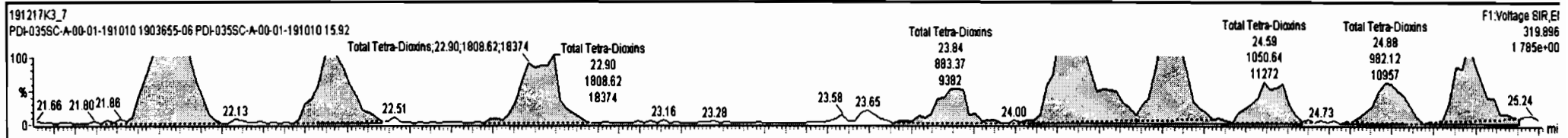
13C-2,3,7,8-TCDD





Name	Resp	RA	nly	RRF	wtval	RT	RRT	Conc.	%Rec	DL	EMPC
33 13C-1,2,3,4,7,8,9-HxCDF	1.79e5	0.44	NO	0.5390	10.012	39.19	1.146	120	60.1	1.14	
34 13C-OCDF	3.99e5	0.82	NO	0.5925	10.012	42.12	1.232	244	61.1	0.842	
35 37Cl-2,3,7,8-TCDD	1.54e5			1.0695	10.012	26.24	1.029	53.0	88.3	0.0844	
36 13C-1,2,3,4-TCDD	5.41e5	0.78	NO	1.0000	10.012	25.51	1.000	200	100	0.484	
37 13C-1,2,3,4-TCDF	8.33e5	0.74	NO	1.0000	10.012	23.63	1.000	200	100	0.477	
38 13C-1,2,3,4,6,9-HxCDF	5.51e5	0.53	NO	1.0000	10.012	34.19	1.000	200	100	0.756	
39 Total Tetra-Dioxins				0.9248	10.012			203		0.182	31.2
40 Total Penta-Dioxins				0.9046	10.012			53.4		0.253	64.8
41 Total Hexa-Dioxins				0.9875	10.012			1190		1.27	1250
42 Total Hepta-Dioxins				1.0375	10.012			11600		7.27	11600
43 Total Tetra-Furans				0.9376	10.012			328		0.349	355

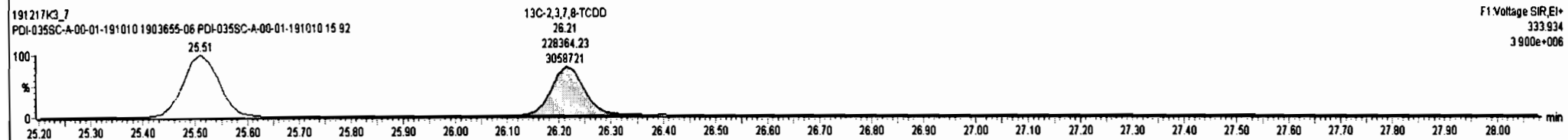
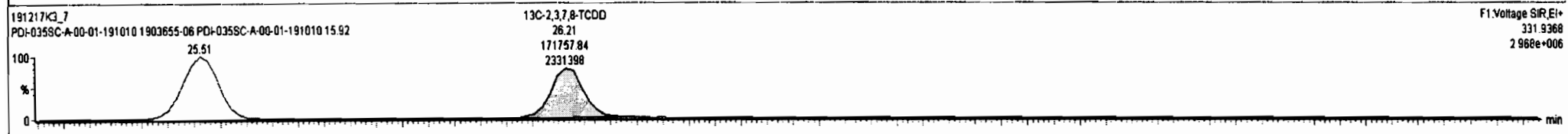
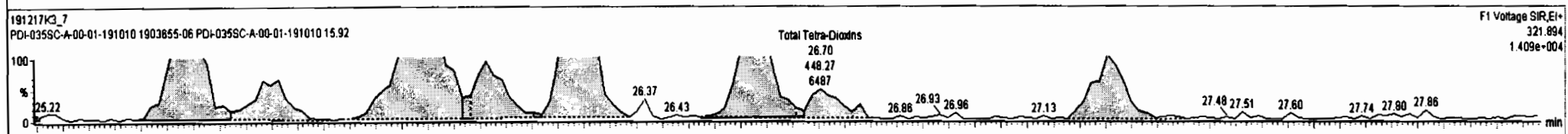
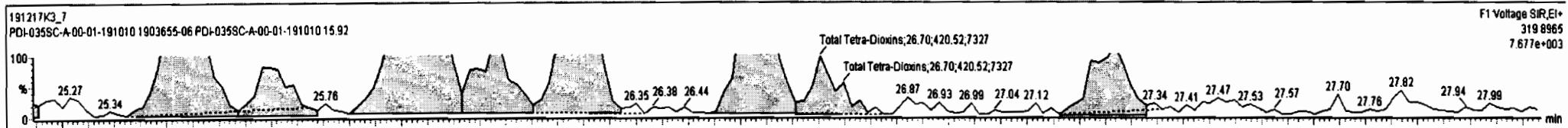
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Dioxins	21.98	3.683e3	4.405e3	0.84	NO	4.3659	4.3659
2 Total Tetra-Dioxins	22.36	1.836e3	2.263e3	0.81	NO	2.2129	2.2129
3 Total Tetra-Dioxins	22.80	1.808e3	2.254e3	0.80	NO	2.1928	2.1928
4 Total Tetra-Dioxins	23.84	8.834e2	1.112e3	0.79	NO	1.0768	1.0768
5 Total Tetra-Dioxins	24.13	3.260e3	3.802e3	0.91	YES	3.4415	0.00000
6 Total Tetra-Dioxins	24.36	2.393e3	2.839e3	0.84	NO	2.8241	2.8241
7 Total Tetra-Dioxins	24.59	1.051e3	1.357e3	0.77	NO	1.3049	1.3049





#	Name	Resp	RA	n/y	RRF	wtMol	RT	RRT	Conc.	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HxCDF	1.79e5	0.44	NO	0.5390	10.012	39.19	1.146	120	60.1	1.14	
34	13C-OCDF	3.99e5	0.82	NO	0.5925	10.012	42.12	1.232	244	61.1	0.842	
35	37Cl-2,3,7,8-TCDD	1.54e5			1.0695	10.012	26.24	1.029	53.0	66.3	0.0844	
36	13C-1,2,3,4-TCDD	5.41e5	0.76	NO	1.0000	10.012	25.51	1.000	200	100	0.484	
37	13C-1,2,3,4-TCDF	8.33e5	0.74	NO	1.0000	10.012	23.63	1.000	200	100	0.477	
38	13C-1,2,3,4,8,9-HxCDF	5.51e5	0.53	NO	1.0000	10.012	34.19	1.000	200	100	0.758	
39	Total Tetra-Dioxins				0.9246	10.012			26.3		0.162	31.8
40	Total Penta-Dioxins				0.9046	10.012			53.4		0.253	64.8
41	Total Hexa-Dioxins				0.9675	10.012			1190		1.27	1250
42	Total Hepta-Dioxins				1.0375	10.012			11600		7.27	11800
43	Total Tetra-Furans				0.9376	10.012			328		0.349	355

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
6	Total Tetra-Dioxins	24.36	2.393e3	2.839e3	0.84	NO	2.8241	2.8241
7	Total Tetra-Dioxins	24.59	1.051e3	1.367e3	0.77	NO	1.3049	1.3049
8	Total Tetra-Dioxins	24.88	6.821e2	1.243e3	0.78	NO	1.2013	1.2013
9	Total Tetra-Dioxins	25.08	1.669e3	1.888e3	0.88	NO	1.9195	1.9195
10	Total Tetra-Dioxins	25.48	1.695e3	1.871e3	1.01	YES	1.5961	0.00000
11	Total Tetra-Dioxins	25.65	4.908e2	7.020e2	0.70	NO	0.84384	0.84384
12	Total Tetra-Dioxins	25.94	2.430e3	2.789e3	0.86	NO	2.8059	2.8059



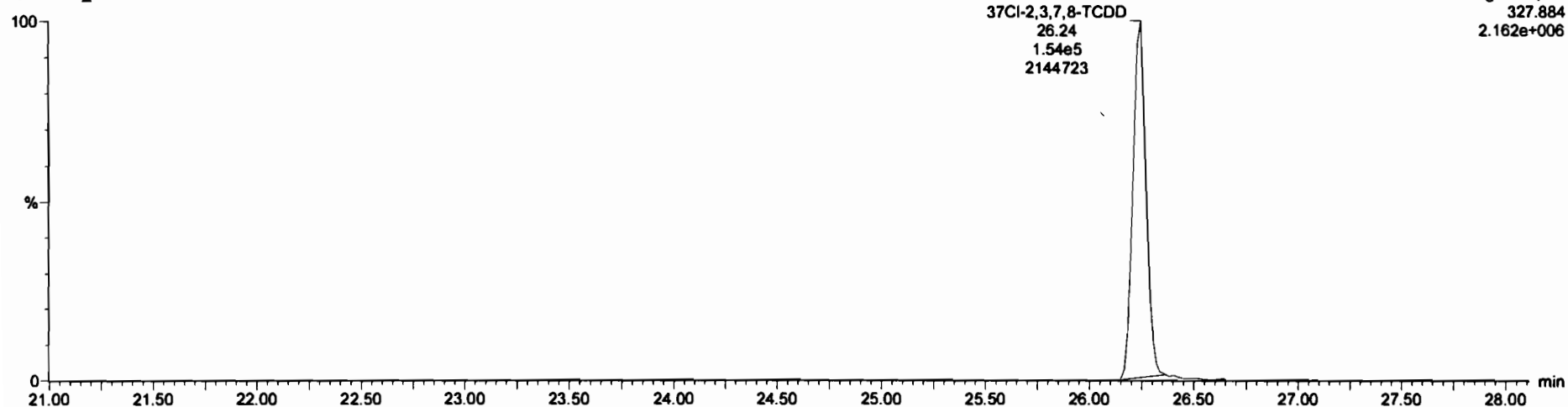
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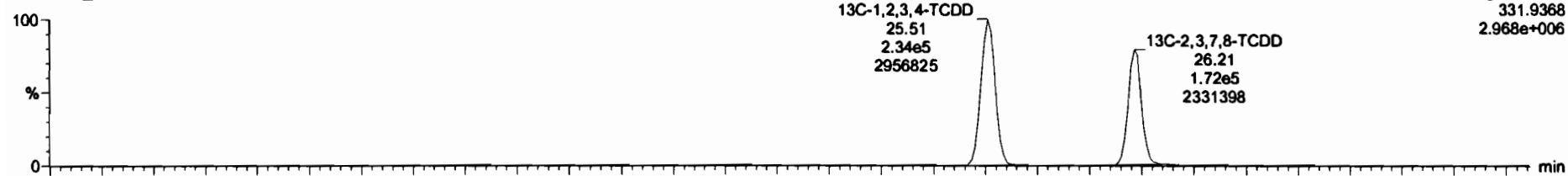
**37Cl-2,3,7,8-TCDD**

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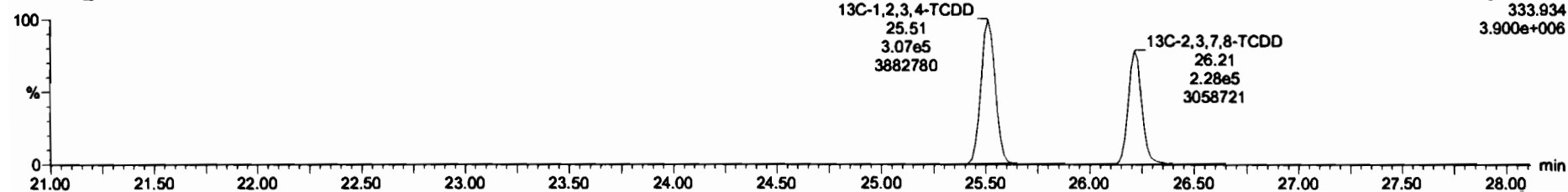


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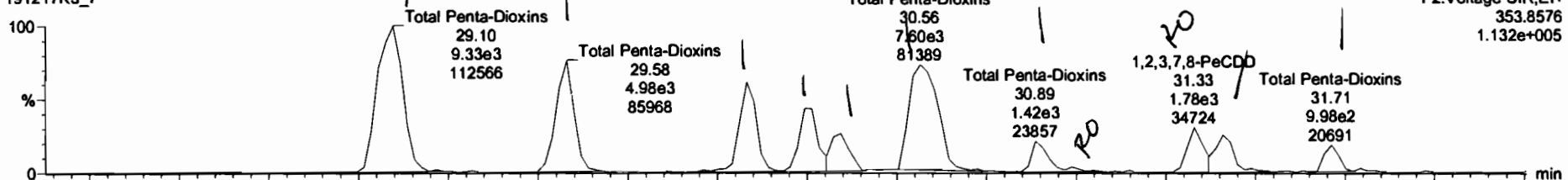
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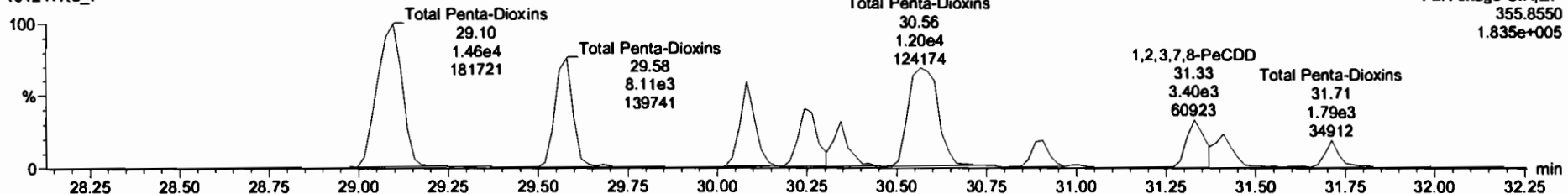
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**1,2,3,7,8-PeCDD**

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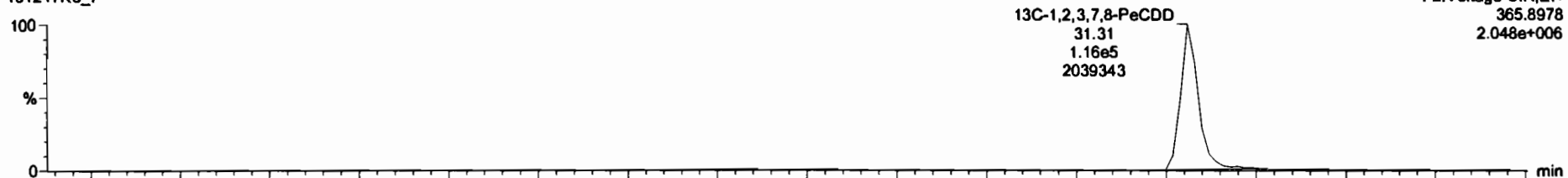


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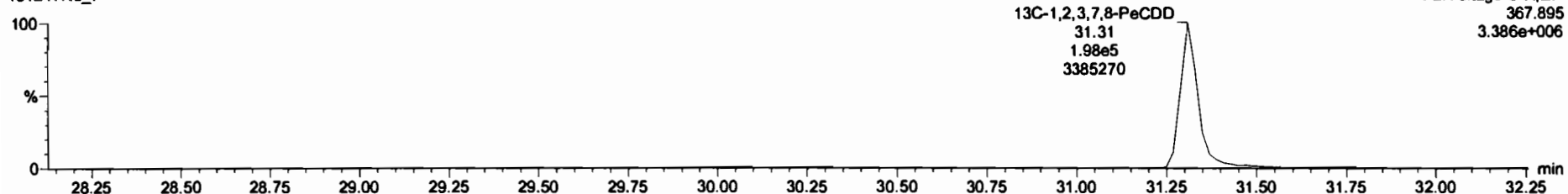


**13C-1,2,3,7,8-PeCDD**

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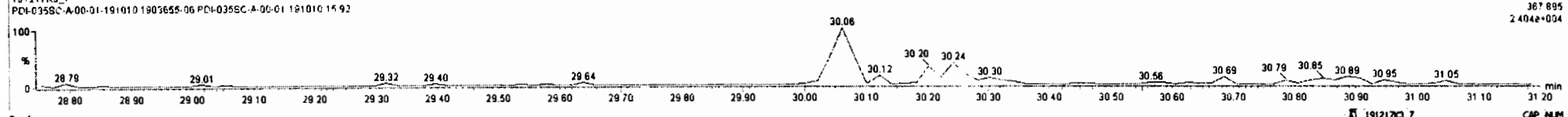
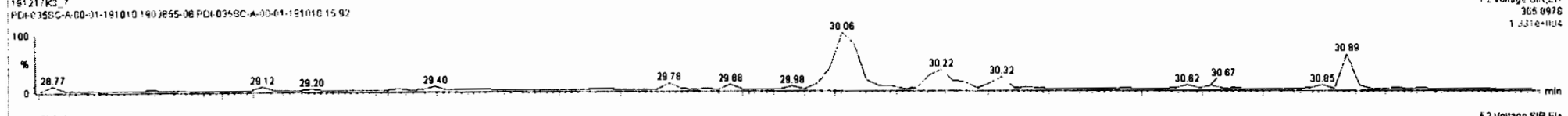
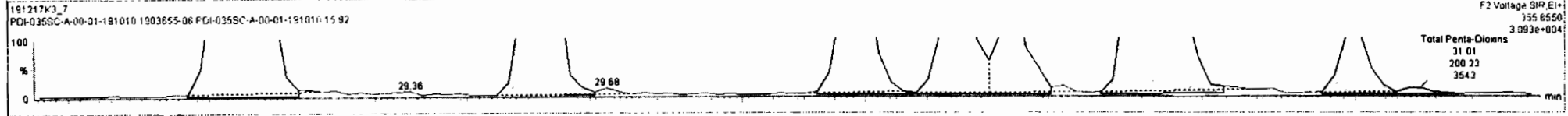
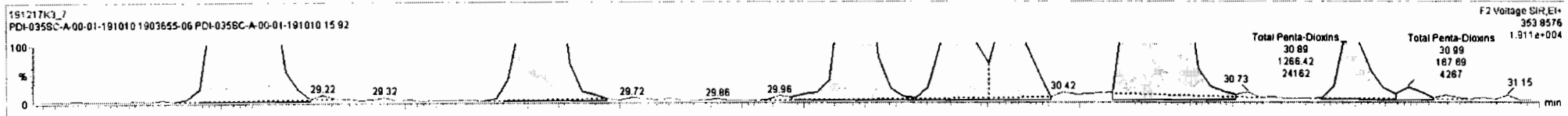
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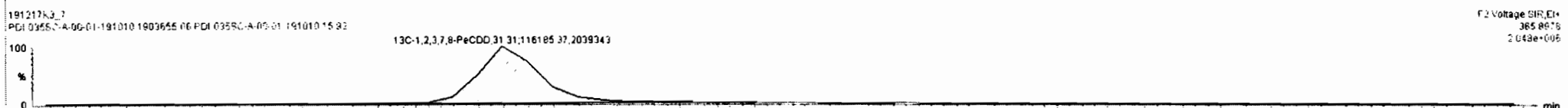
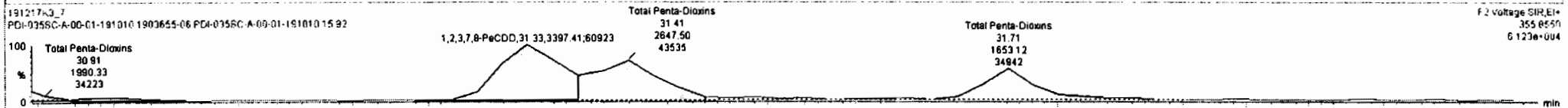
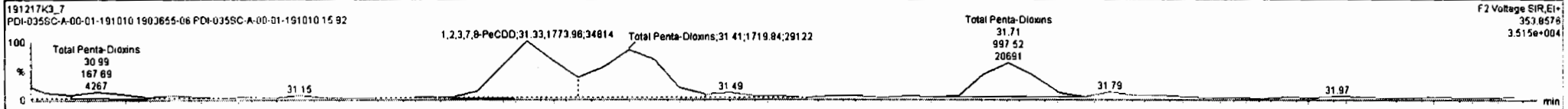
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40 Total Penta-Dioxins				0.8046	10.012			62.8		0.253	66.3
41 Total Hexa-Dioxins				0.9675	10.012			1190		1.27	1250
42 Total Hepta-Dioxins				1.0375	10.012			11600		7.27	11600
43 Total Tetra-Furans				0.9376	10.012			328		0.348	355
44 1st Func. Penta-Furans				0.9762	10.012			30.1		0.0740	30.1
45 Total Penta-Furans				0.9762	10.012			505		0.467	505
46 Total Hexa-Furans				1.1805	10.012			718		0.977	721

Name	RT	m1 Resp	m2 Resp	RA	n/y	ELPC	Conc.
1 Total Penta-Dioxins	29.10	8.367e3	1.485e4	0.63	NO	17.033	17.033
2 Total Penta-Dioxins	29.68	5.087e3	8.010e3	0.64	NO	9.2045	9.2045
3 Total Penta-Dioxins	30.06	3.827e3	5.484e3	0.72	NO	6.5997	6.5997
4 Total Penta-Dioxins	30.24	2.941e3	4.529e3	0.65	NO	5.2498	5.2498
5 Total Penta-Dioxins	30.34	1.659e3	2.914e3	0.64	NO	3.3549	3.3549
6 Total Penta-Dioxins	30.88	7.890e3	1.325e4	0.64	NO	14.154	14.154
7 Total Penta-Dioxins	30.89	1.266e3	1.990e3	0.64	NO	2.2888	2.2888
8 Total Penta-Dioxins	30.89	1.677e2	2.002e2	0.84	YES	0.22938	0.00000
9 1,2,3,7,8-PeCDD	31.33	1.774e3	3.397e3	0.52	YES	3.2257	0.00000



Name	Resp	RA	n/y	RRF	wtval	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.8048	10.012			62.8		0.253	66.3
41 Total Hexa-Dioxins				0.9675	10.012			1190		1.27	1250
42 Total Hepta-Dioxins				1.0375	10.012			11600		7.27	11600
43 Total Tetra-Furans				0.9376	10.012			328		0.349	355
44 1st Func. Penta-Furans				0.9762	10.012			30.1		0.0740	30.1
45 Total Penta-Furans				0.9762	10.012			505		0.467	505
46 Total Hexa-Furans				1.1808	10.012			718		0.977	721

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
3 Total Penta-Dioxins	30.08	3.927e3	5.464e3	0.72	NO	6.5997	6.5997
4 Total Penta-Dioxins	30.24	2.941e3	4.529e3	0.65	NO	5.2498	5.2498
5 Total Penta-Dioxins	30.34	1.859e3	2.814e3	0.64	NO	3.3549	3.3549
6 Total Penta-Dioxins	30.58	7.890e3	1.225e4	0.64	NO	14.154	14.154
7 Total Penta-Dioxins	30.88	1.266e3	1.990e3	0.64	NO	2.2888	2.2888
8 Total Penta-Dioxins	30.88	1.677e2	2.002e2	0.84	YES	0.22838	0.00000
9 1,2,3,7,8-PeCDD	31.33	1.774e3	3.397e3	0.52	YES	3.2257	0.00000
10 Total Penta-Dioxins	31.41	1.720e3	2.649e3	0.65	NO	3.0694	3.0694
11 Total Penta-Dioxins	31.71	9.975e2	1.853e3	0.60	NO	1.8629	1.8629



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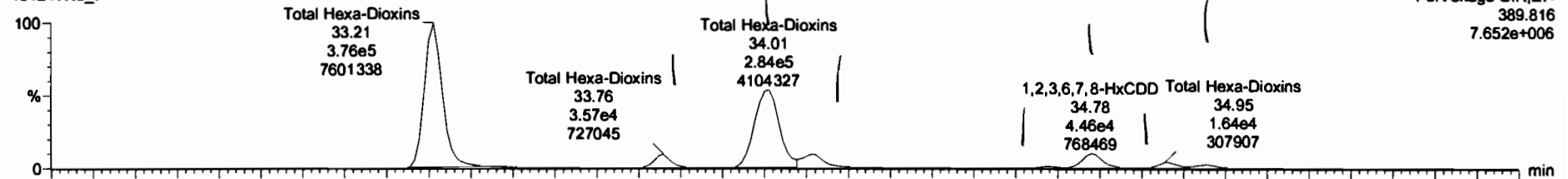
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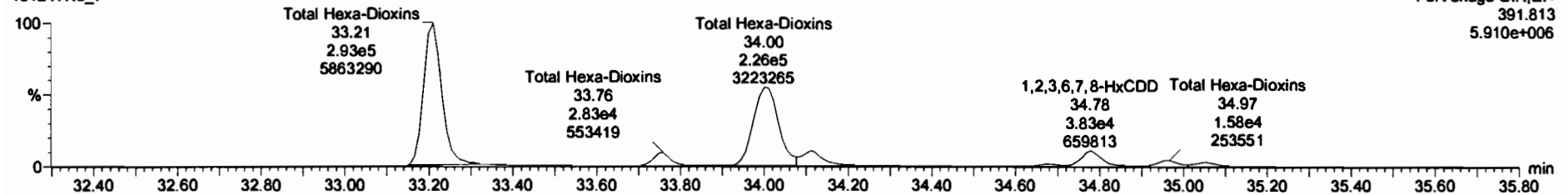
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**1,2,3,4,7,8-HxCDD**

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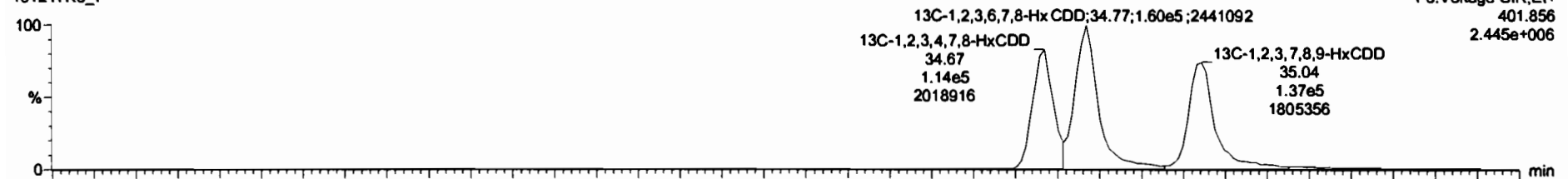


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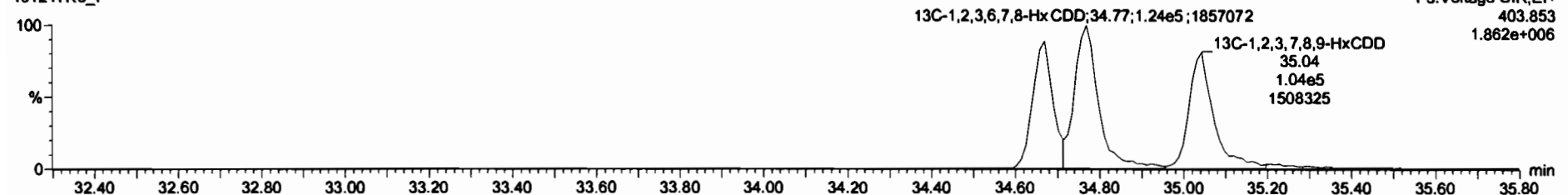


**13C-1,2,3,4,7,8-HxCDD**

191217K3\_7

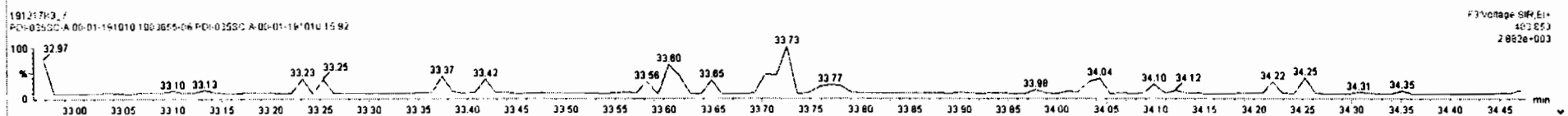
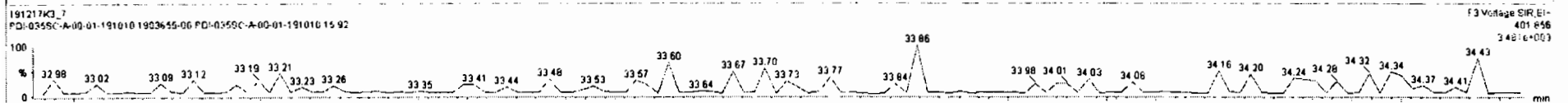
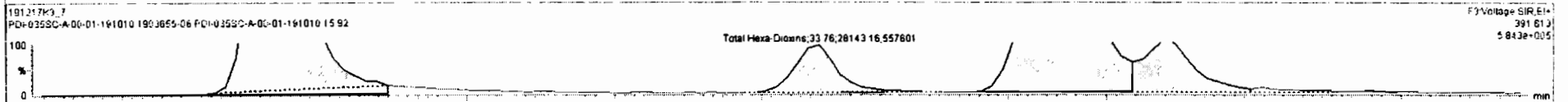
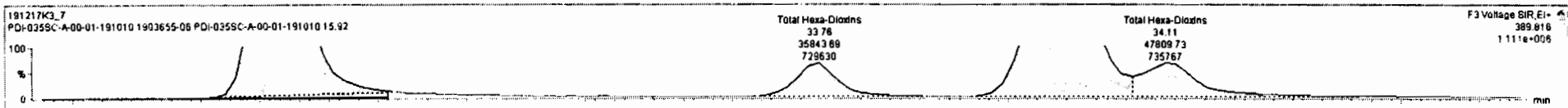


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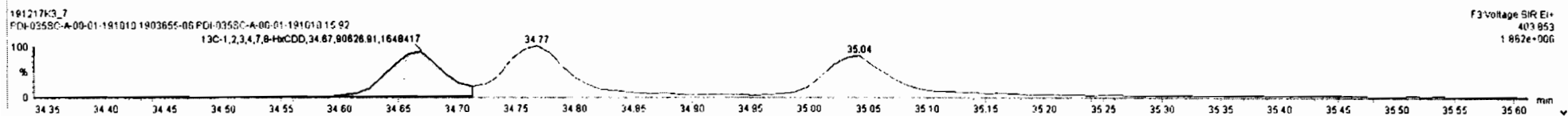
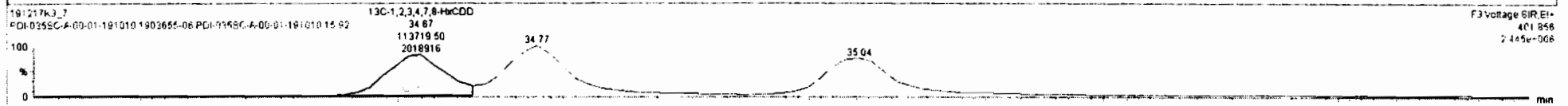
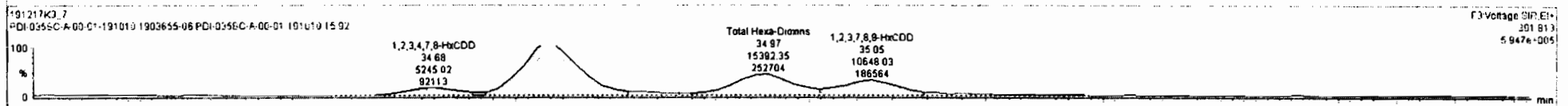
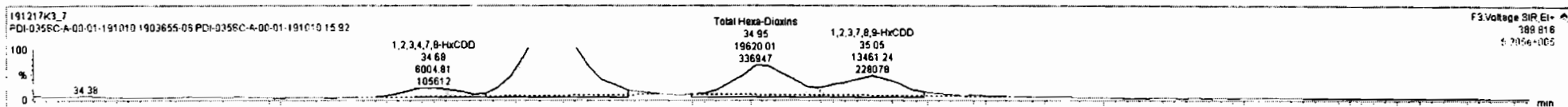
Name	Resp	RA	rvf	RRF	wtAveI	RT	PRT	Conc.	%Rec	DL	BMPc
40 Total Penta-Dioxins				0.9046	10.012			62.8		0.253	66.3
41 Total Hexa-Dioxins				0.9675	10.012			1270		1.27	1270
42 Total Hepta-Dioxins				1.0375	10.012			11600		7.27	11600
43 Total Tetra-Furans				0.9376	10.012			326		0.349	355
44 1st Func. Penta-Furans				0.9762	10.012			30.1		0.0740	30.1
45 Total Penta-Furans				0.9762	10.012			505		0.487	505
46 Total Hexa-Furans				1.1806	10.012			718		0.977	721

Name	RT	wt Resp	wt2 Resp	RA	rvf	BMPc	Conc.
1 Total Hexa-Dioxins	33.21	3.871e5	3.030e5	1.28	NO	586.08	586.08
2 Total Hexa-Dioxins	33.76	3.584e4	2.814e4	1.27	NO	54.348	54.348
3 Total Hexa-Dioxins	34.01	2.848e5	2.257e5	1.26	NO	433.82	433.82
4 Total Hexa-Dioxins	34.11	4.781e4	3.700e4	1.29	NO	72.030	72.030
5 1,2,3,4,7,8-HxCDD	34.88	6.005e3	5.245e3	1.14	NO	10.287	10.287
6 1,2,3,6,7,8-HxCDD	34.78	4.667e4	3.621e4	1.29	NO	60.269	60.269
7 Total Hexa-Dioxins	34.95	1.962e4	1.539e4	1.27	NO	29.738	29.738
8 1,2,3,7,8,9-HxCDD	35.05	1.346e4	1.065e4	1.26	NO	20.438	20.438



Name	Resp	RA	ry	RfV	WtVal	RT	RfT	Conc.	%Rec	DL	BfPC
40 Total Penta-Dioxins				0.9046	10.012			62.6		0.253	66.3
41 Total Hexa-Dioxins				0.9675	10.012			1270		1.27	1270
42 Total Hepta-Dioxins				1.0375	10.012			11600		7.27	11600
43 Total Tetra-Furans				0.9376	10.012			326		0.349	355
44 1st Func. Penta-Furans				0.9762	10.012			30.1		0.0740	30.1
45 Total Penta-Furans				0.9762	10.012			505		0.467	505
46 Total Hexa-Furans				1.1806	10.012			718		0.977	721

Name	RT	ret Resp	nc2 Resp	RA	ry	BfPC	Conc.
1 Total Hexa-Dioxins	33.21	3.871e5	3.030e5	1.26	NO	566.09	566.09
2 Total Hexa-Dioxins	33.76	3.584e4	2.814e4	1.27	NO	54.348	54.348
3 Total Hexa-Dioxins	34.01	2.848e5	2.257e5	1.26	NO	433.62	433.62
4 Total Hexa-Dioxins	34.11	4.781e4	3.700e4	1.28	NO	72.030	72.030
5 1,2,3,4,7,8-HxCDD	34.68	6.005e3	5.245e3	1.14	NO	10.267	10.267
6 1,2,3,6,7,8-HxCDD	34.78	4.667e4	3.621e4	1.29	NO	60.269	60.269
7 Total Hexa-Dioxins	34.95	1.962e4	1.539e4	1.27	NO	29.736	29.736
8 1,2,3,7,8,9-HxCDD	35.05	1.346e4	1.065e4	1.26	NO	20.438	20.438





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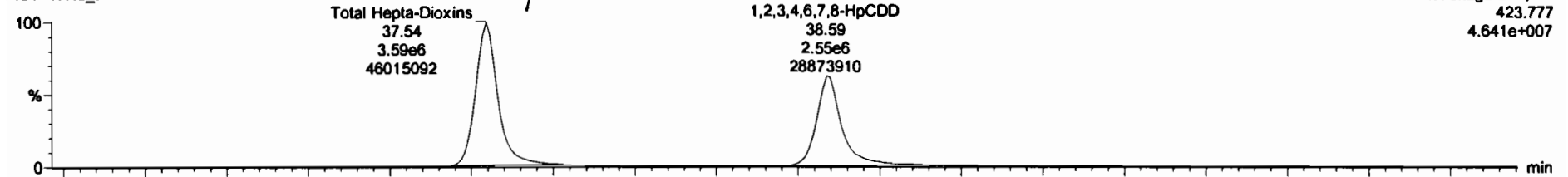
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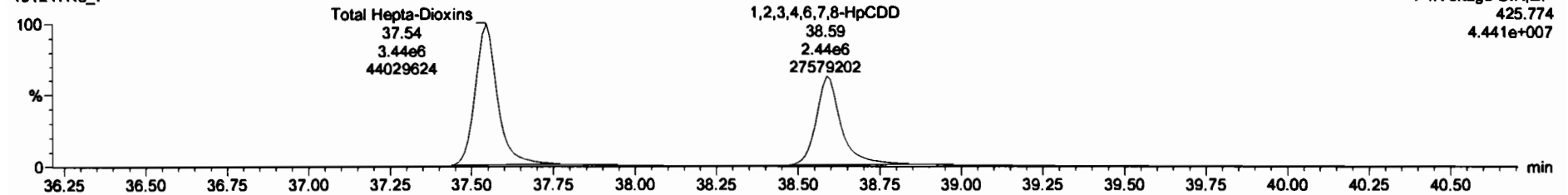
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1,2,3,4,6,7,8-HpCDD

191217K3\_7

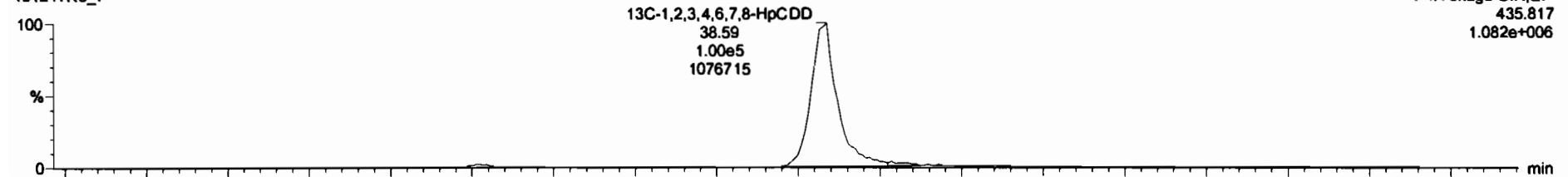


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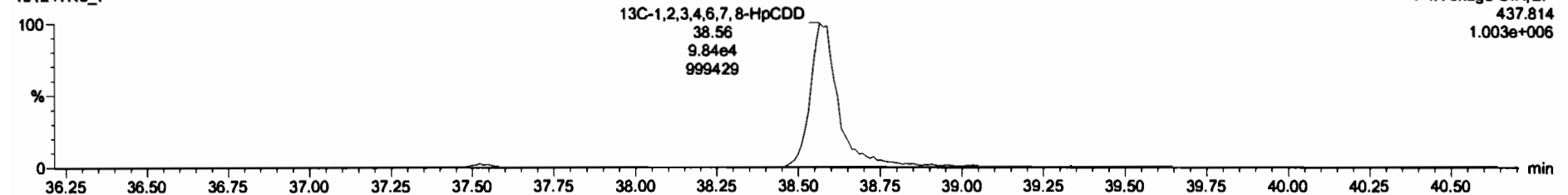


13C-1,2,3,4,6,7,8-HpCDD

191217K3\_7



191217K3\_7

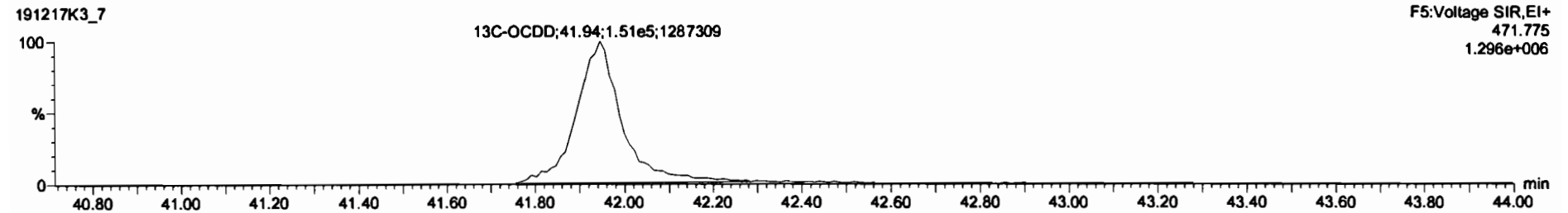
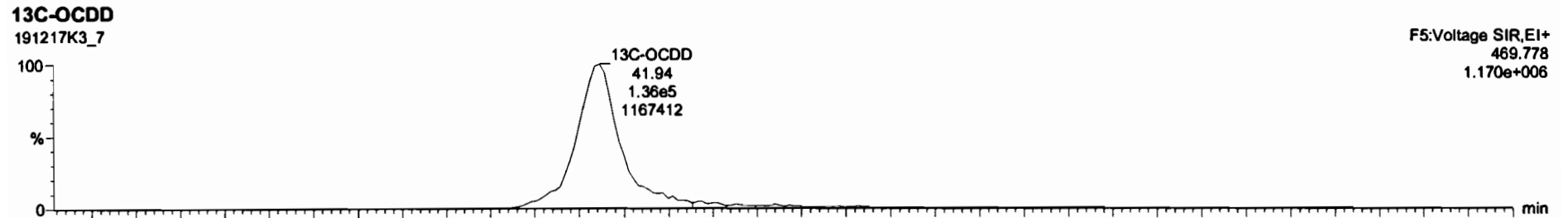
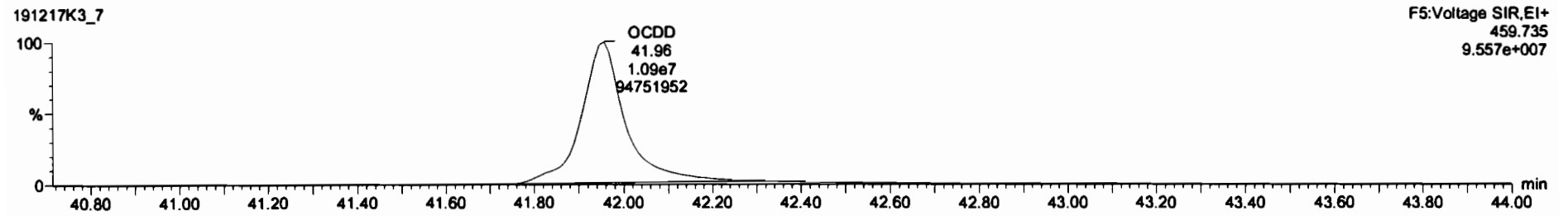
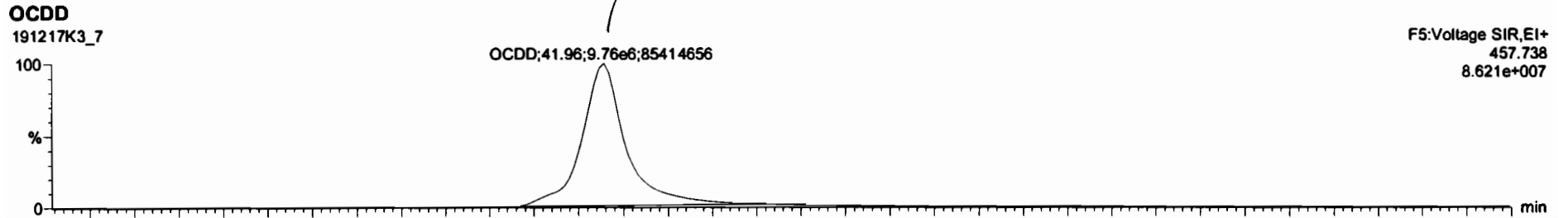


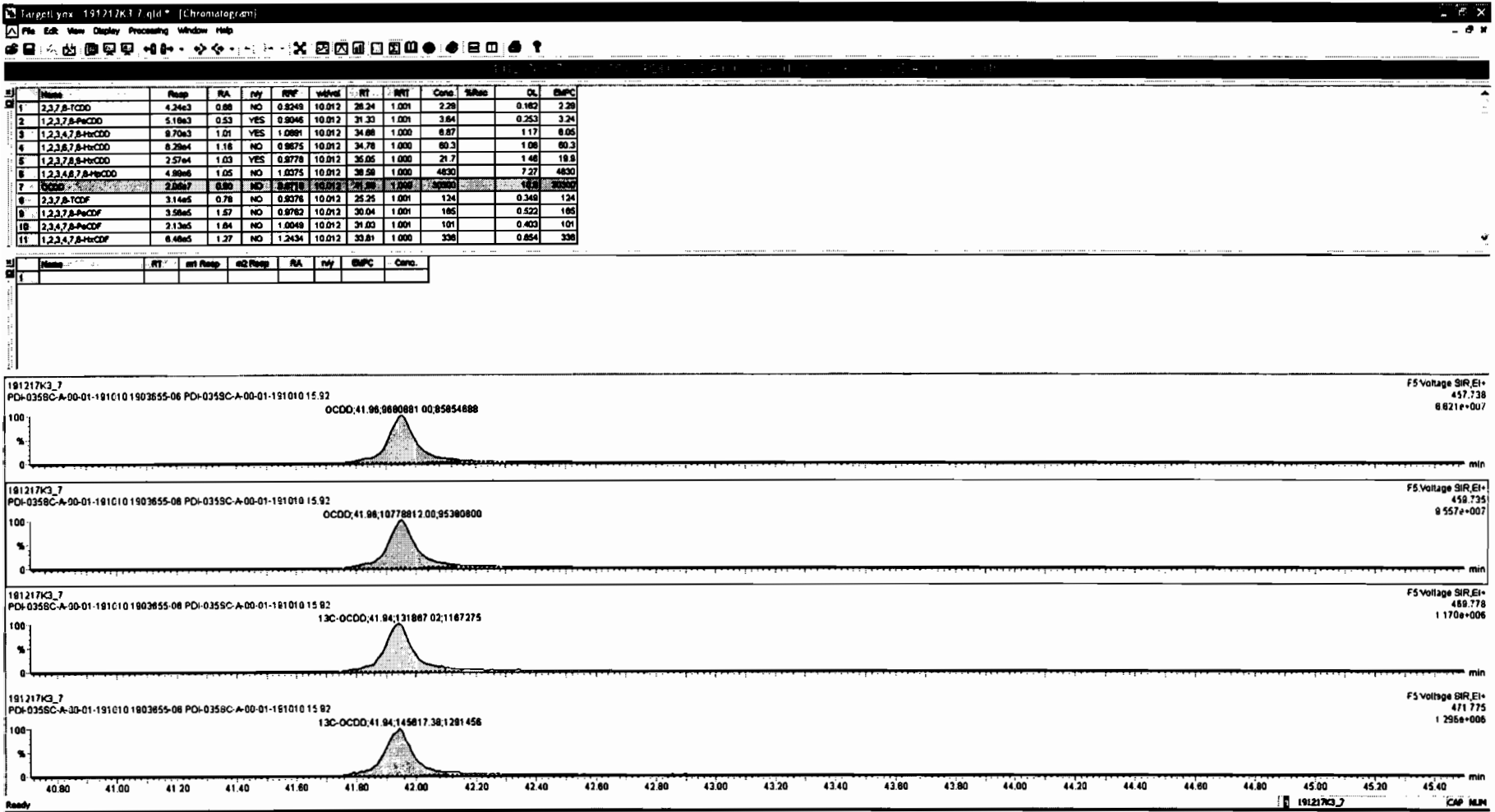
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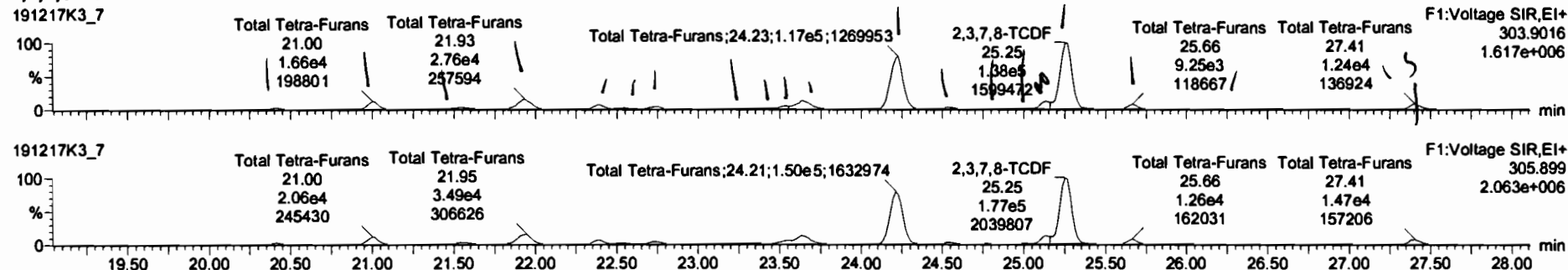


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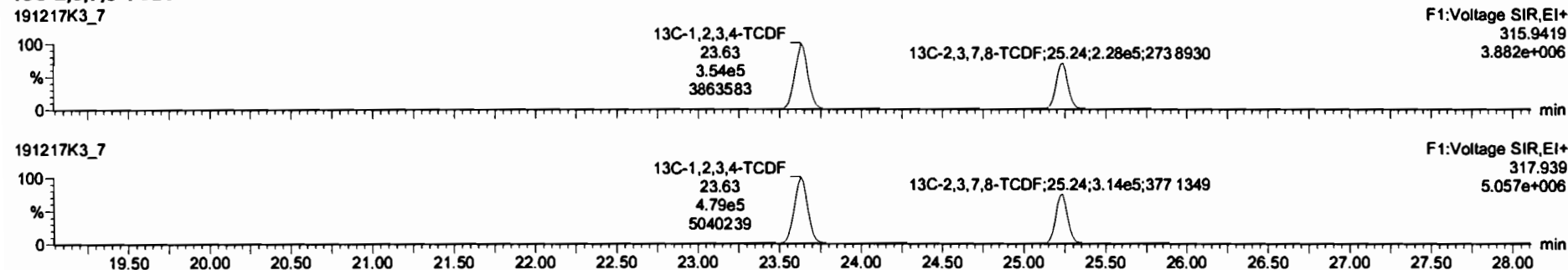
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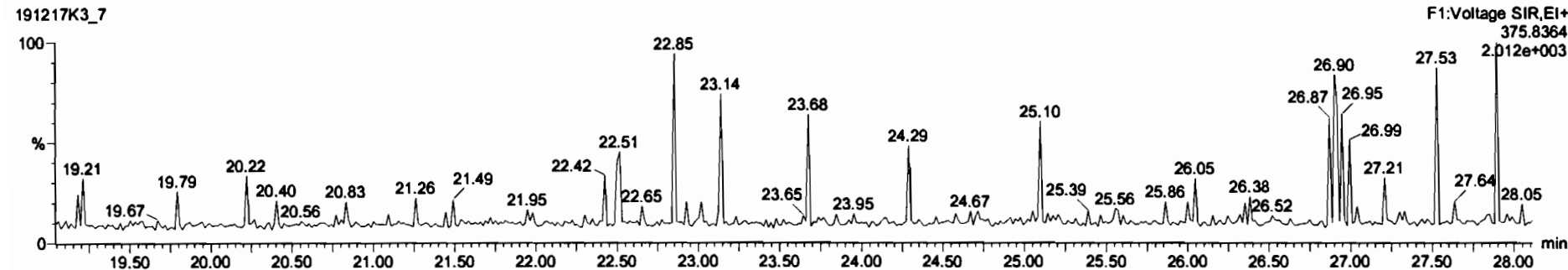
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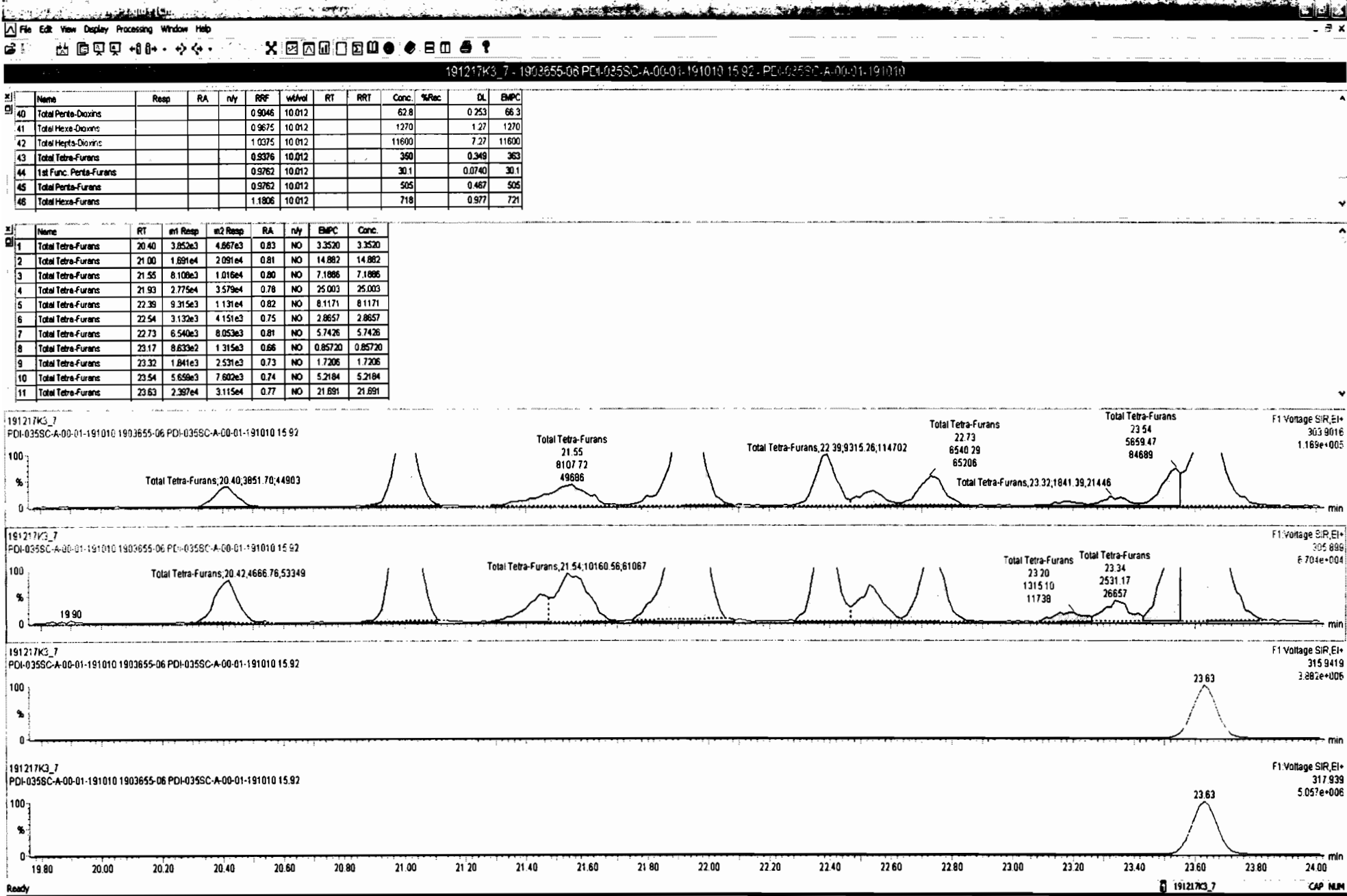


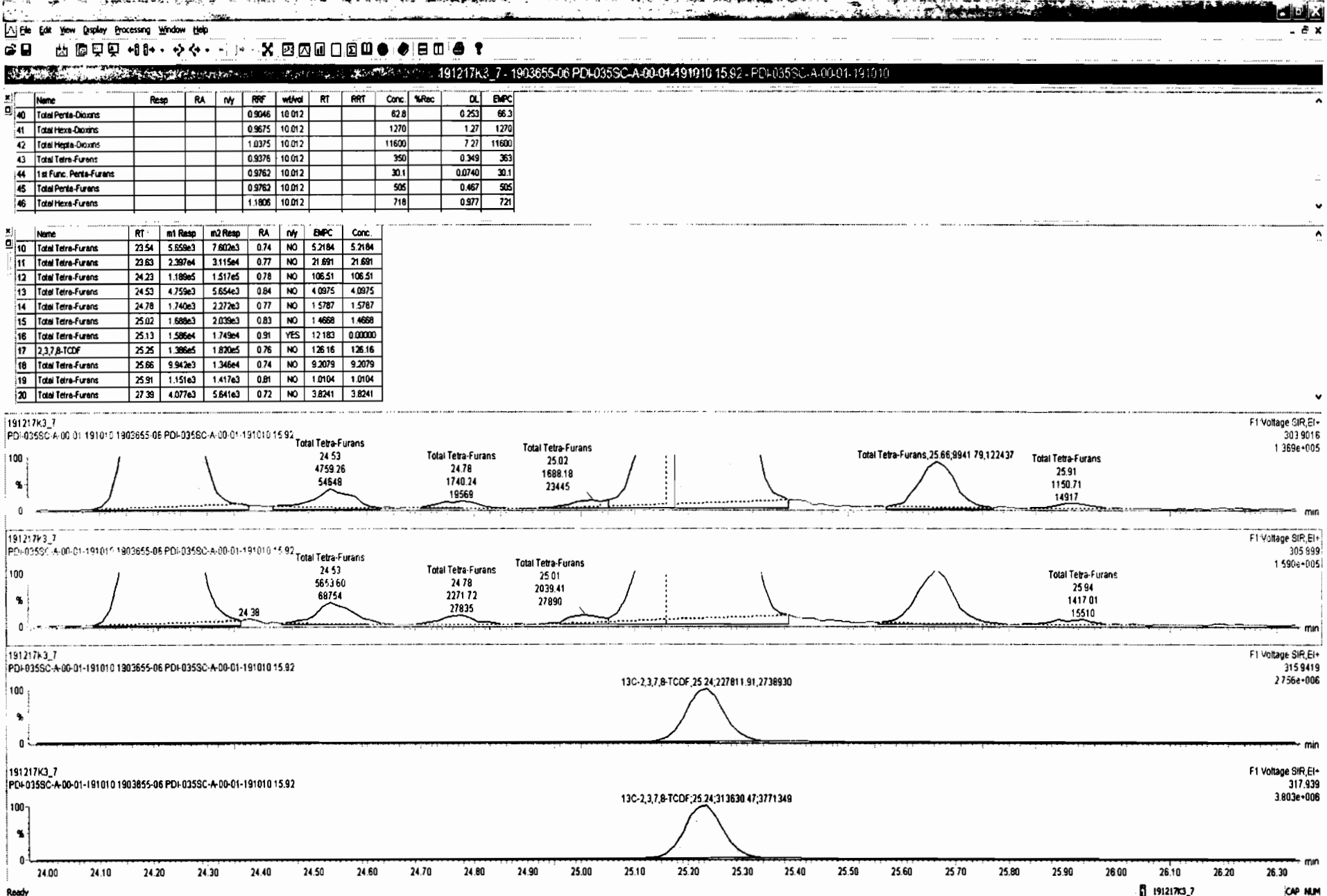
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**DPE1**

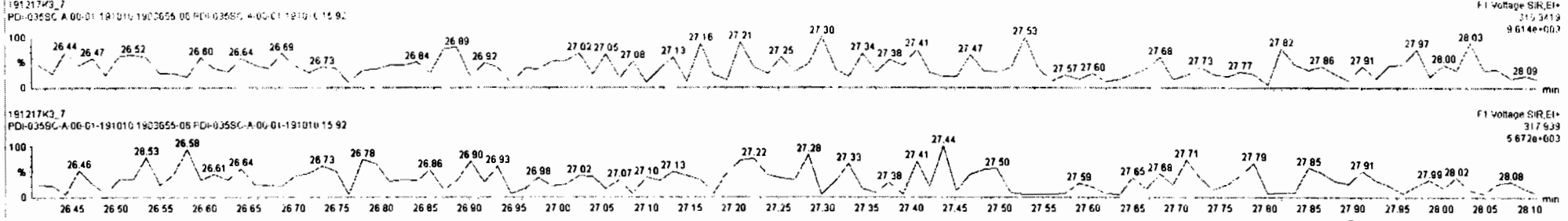






Name	Resp	RA	n/y	RRF	wtAdj	RT	RRT	Conc	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9048	10.012			62.8		0.253	66.3
41 Total Hexa-Dioxins				0.9675	10.012			1270		1.27	1270
42 Total Hepta-Dioxins				1.0375	10.012			11600		7.27	11600
43 Total Tetra-Furans				0.8376	10.012			350		0.349	353
44 1st Func. Penta-Furans				0.9762	10.012			30.1		0.0740	30.1
45 Total Penta-Furans				0.9762	10.012			505		0.467	505
46 Total Hexa-Furans				1.1806	10.012			716		0.977	721

Name	RT	wf Resp	m2 Resp	RA	n/y	EMPC	Conc.
10 Total Tetra-Furans	23.54	5.659e3	7.602e3	0.74	NO	5.2184	5.2184
11 Total Tetra-Furans	23.63	2.397e4	3.115e4	0.77	NO	21.691	21.691
12 Total Tetra-Furans	24.23	1.189e5	1.517e5	0.78	NO	106.51	106.51
13 Total Tetra-Furans	24.53	4.759e3	5.654e3	0.84	NO	4.0975	4.0975
14 Total Tetra-Furans	24.76	1.740e3	2.272e3	0.77	NO	1.5787	1.5787
15 Total Tetra-Furans	25.02	1.688e3	2.038e3	0.83	NO	1.4688	1.4688
16 Total Tetra-Furans	25.13	1.586e4	1.749e4	0.91	YES	12.183	0.00000
17 2,3,7,8-TCDF	25.25	1.386e5	1.620e5	0.76	NO	126.16	126.16
18 Total Tetra-Furans	25.66	9.942e3	1.346e4	0.74	NO	9.2079	9.2079
19 Total Tetra-Furans	25.91	1.151e3	1.417e3	0.81	NO	1.0104	1.0104
20 Total Tetra-Furans	27.39	4.077e3	5.641e3	0.72	NO	3.8241	3.8241



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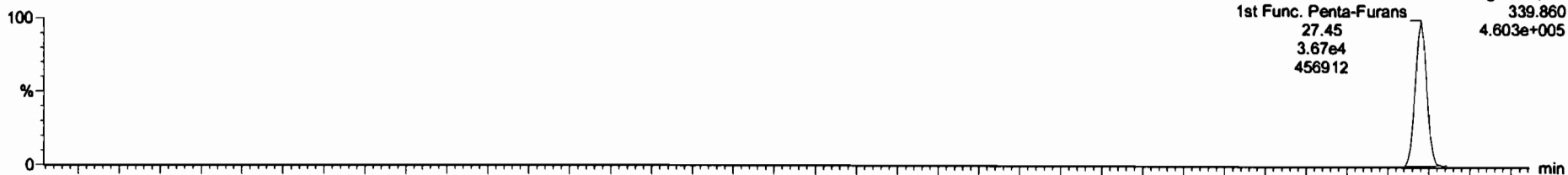
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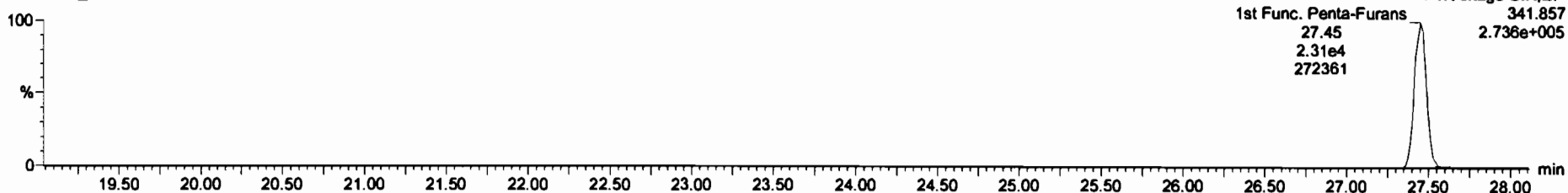
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1st Func. Penta-Furans

191217K3\_7

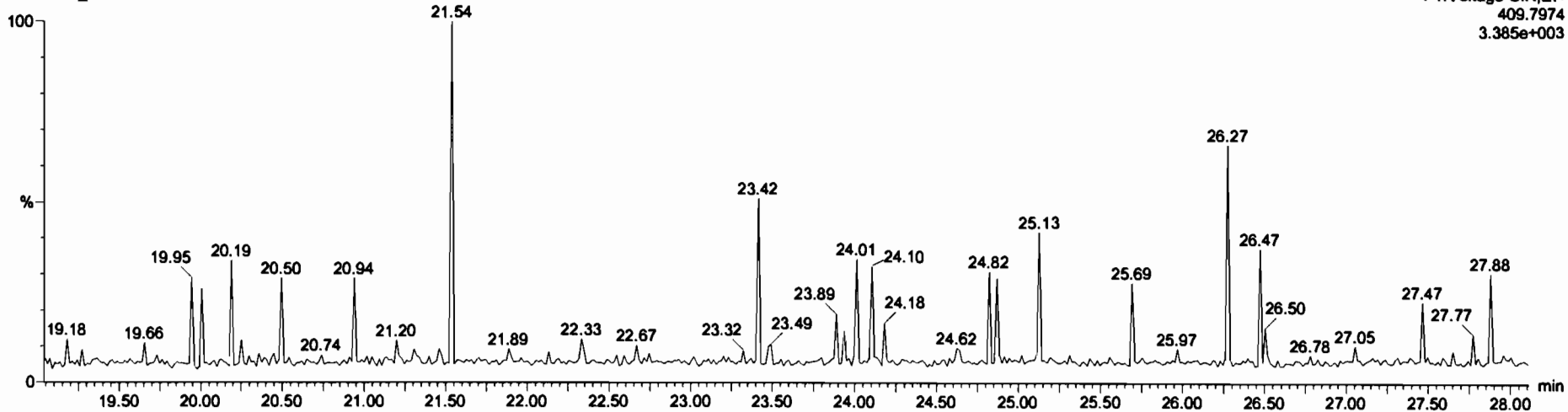


191217K3\_7



DPE6

191217K3\_7



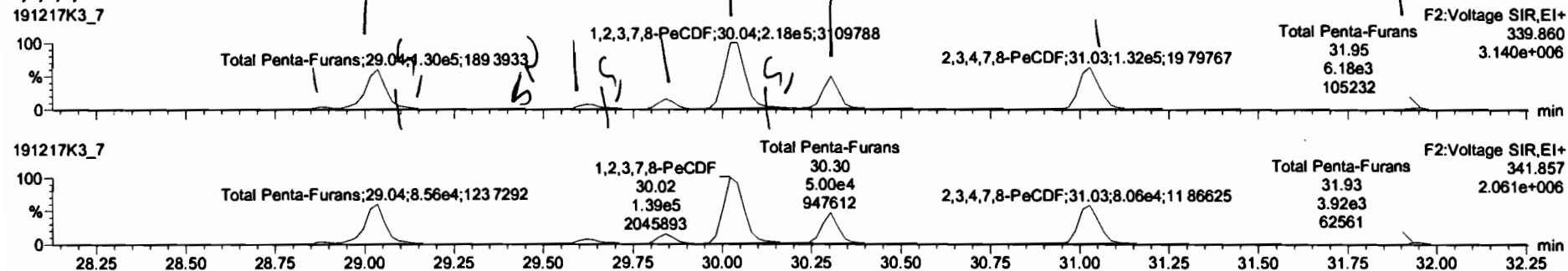


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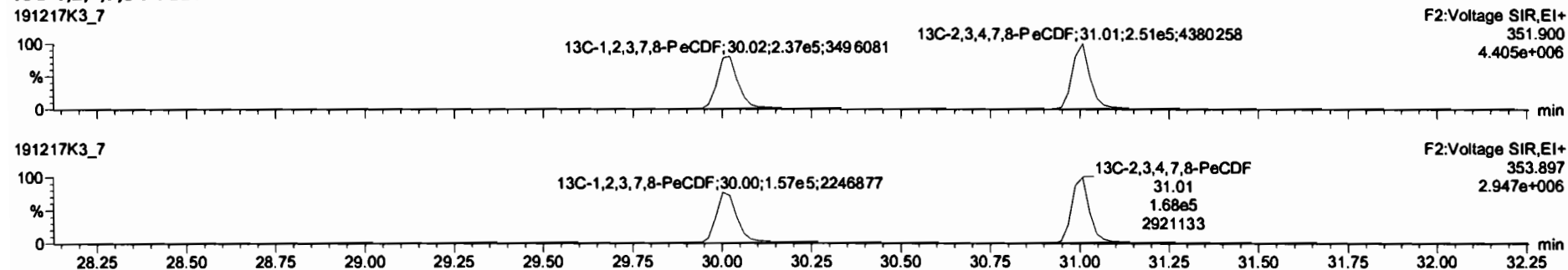
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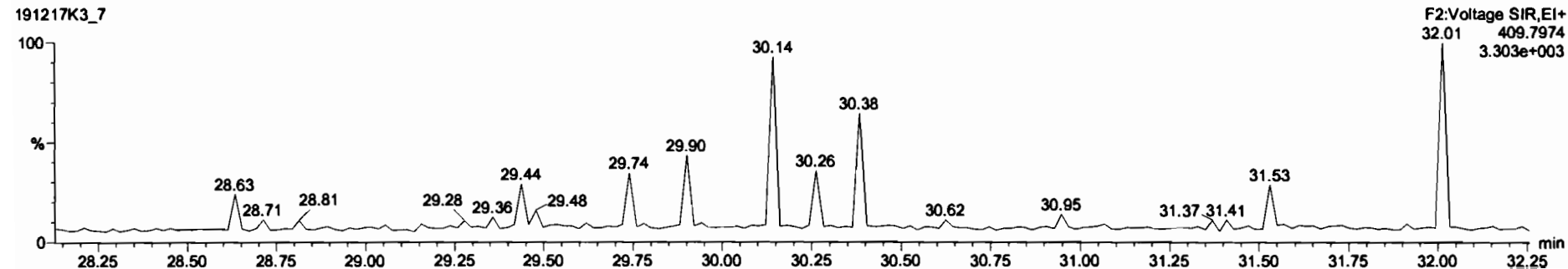
**1,2,3,7,8-PeCDF**



**13C-1,2,3,7,8-PeCDF**



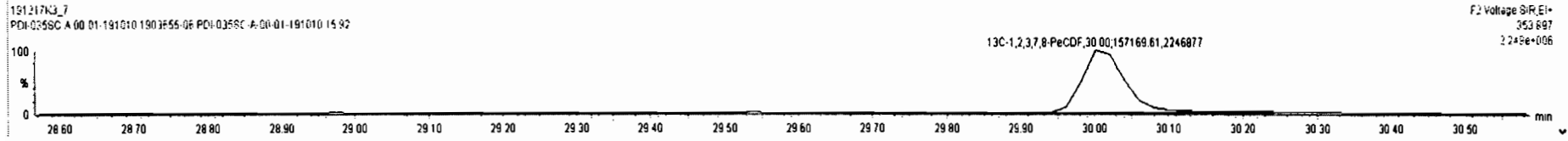
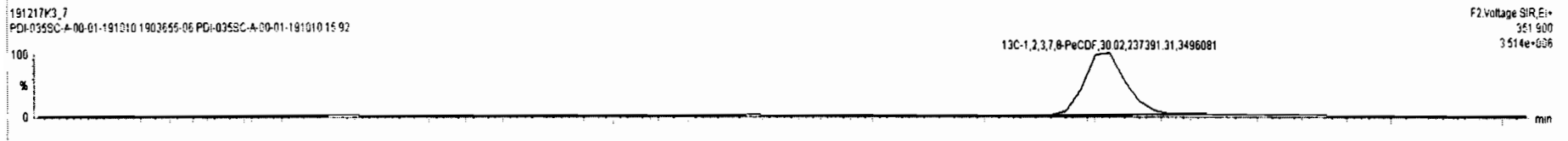
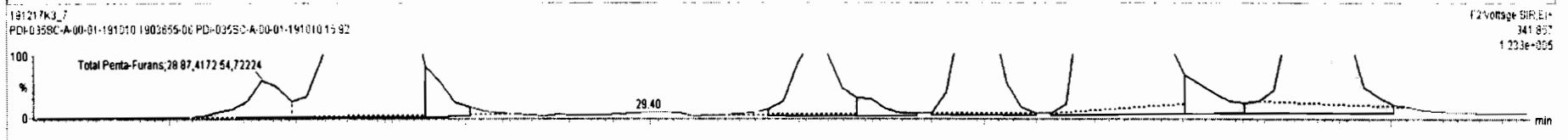
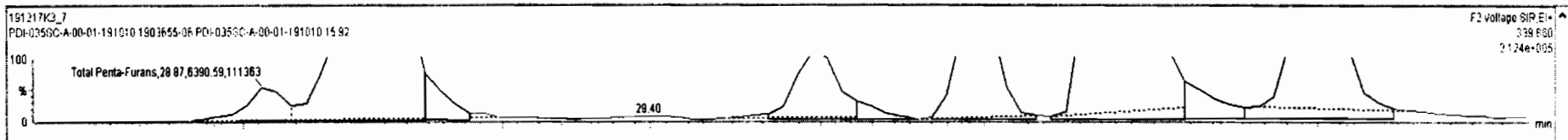
**DPE2**



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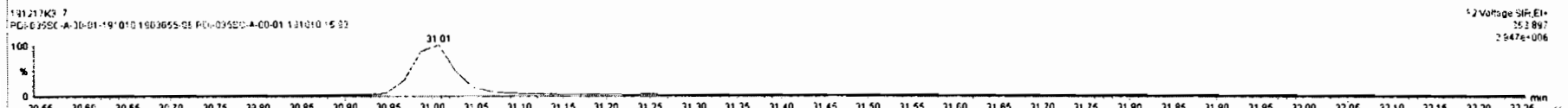
Name	Resp	RA	n/y	RRF	wtVal	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.8782	10.012			516		0.467	516
46 Total Hexa-Furans				1.1806	10.012			718		0.977	721
47 Total Hepta-Furans				1.1300	10.012			1160		1.77	1160
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	int Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.87	6.391e3	4.173e3	1.53	NO	5.3191	5.3191
2 Total Penta-Furans	29.04	1.257e5	8.283e4	1.52	NO	105.00	105.00
3 Total Penta-Furans	29.10	5.068e3	3.126e3	1.62	NO	4.1267	4.1267
4 Total Penta-Furans	29.62	1.564e4	9.900e3	1.58	NO	12.863	12.863
5 Total Penta-Furans	29.68	2.291e3	1.475e3	1.55	NO	1.8962	1.8962
6 Total Penta-Furans	29.84	2.715e4	1.896e4	1.60	NO	22.212	22.212
7 1,2,3,7,8-PeCDF	30.04	2.193e5	1.391e5	1.58	NO	185.88	185.88
8 Total Penta-Furans	30.12	6.037e3	3.514e3	1.72	NO	4.8097	4.8097
9 Total Penta-Furans	30.30	8.529e4	5.378e4	1.59	NO	70.031	70.031
10 2,3,4,7,8-PeCDF	31.03	1.295e5	7.993e4	1.62	NO	99.573	99.573
11 Total Penta-Furans	31.95	5.807e3	3.677e3	1.58	NO	4.7759	4.7759



Name	Resp	RA	nly	RRF	wtWt	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.8763	10.012			518	0.487	518	
46 Total Hexa-Furans				1.1806	10.012			718	0.977	721	
47 Total Hepta-Furans				1.1300	10.012			1180	1.77	1180	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	28.87	6.381e3	4.173e3	1.53	NO	5.3191	5.3191
2 Total Penta-Furans	29.04	1.257e5	8.283e4	1.52	NO	105.00	105.00
3 Total Penta-Furans	29.10	5.068e3	3.128e3	1.62	NO	4.1267	4.1267
4 Total Penta-Furans	29.62	1.584e4	9.900e3	1.58	NO	12.883	12.883
5 Total Penta-Furans	29.88	2.291e3	1.475e3	1.55	NO	1.8962	1.8962
6 Total Penta-Furans	29.84	2.715e4	1.656e4	1.80	NO	22.212	22.212
7 1,2,3,7,8-PeCDF	30.04	2.182e5	1.391e5	1.58	NO	185.88	185.88
8 Total Penta-Furans	30.12	6.037e3	3.514e3	1.72	NO	4.8097	4.8097
9 Total Penta-Furans	30.30	6.529e4	5.378e4	1.59	NO	70.031	70.031
10 2,3,4,7,8-PeCDF	31.03	1.295e5	7.983e4	1.62	NO	98.573	98.573
11 Total Penta-Furans	31.95	5.807e3	3.677e3	1.58	NO	4.7759	4.7759



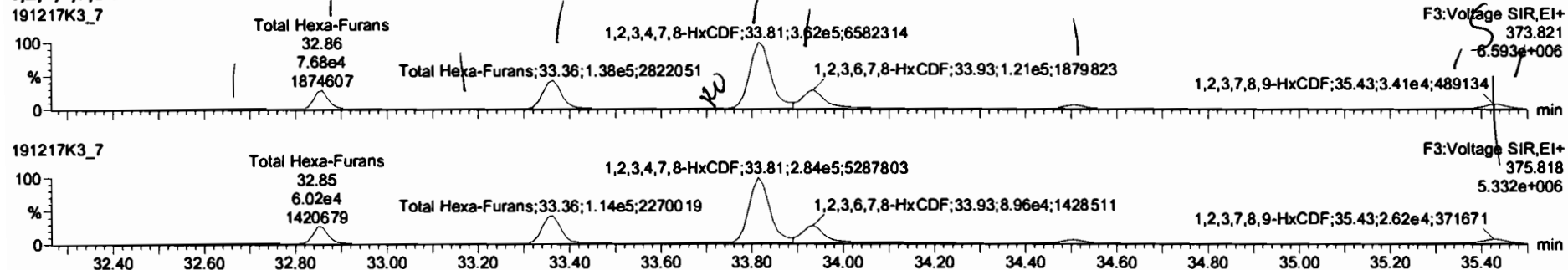
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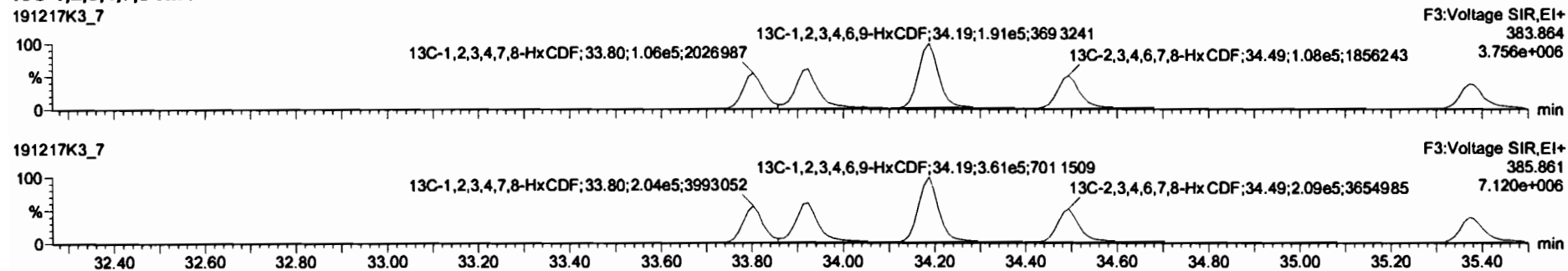
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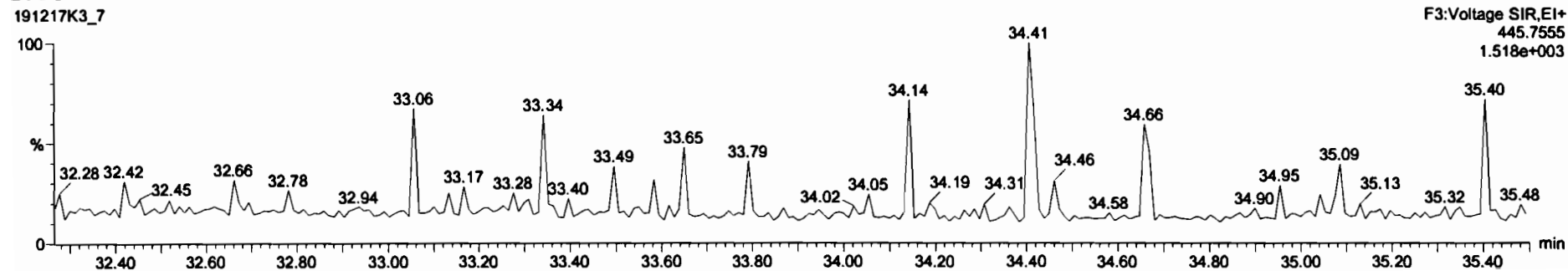
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**13C-1,2,3,4,7,8-HxCDF**



**DPE3**

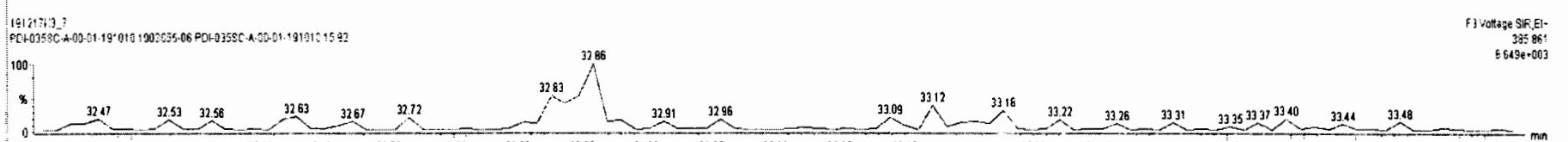
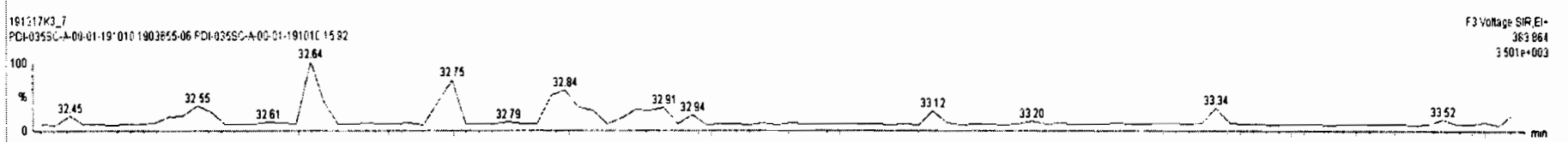
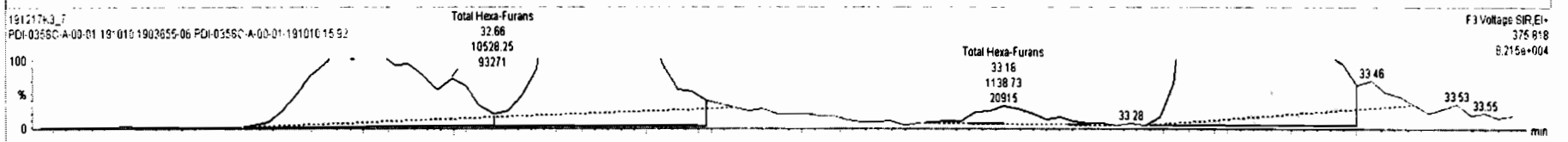
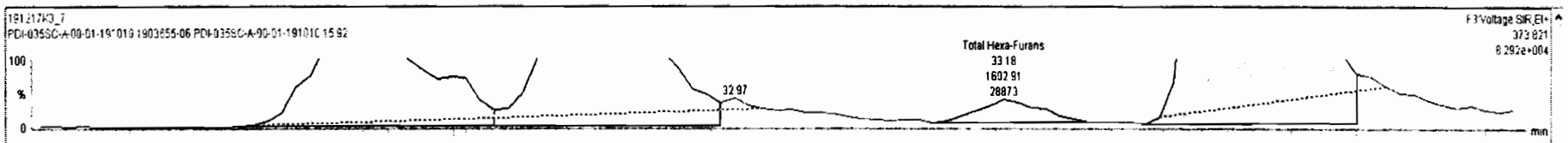




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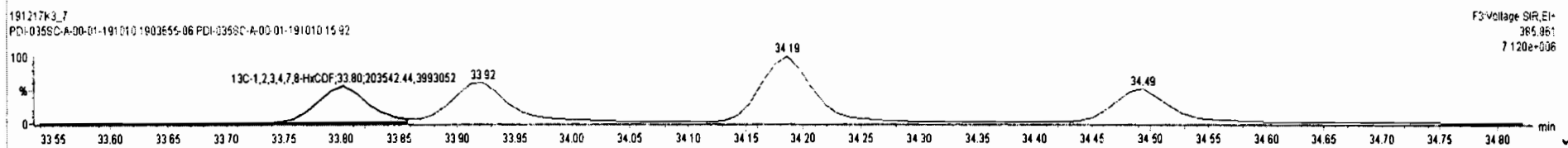
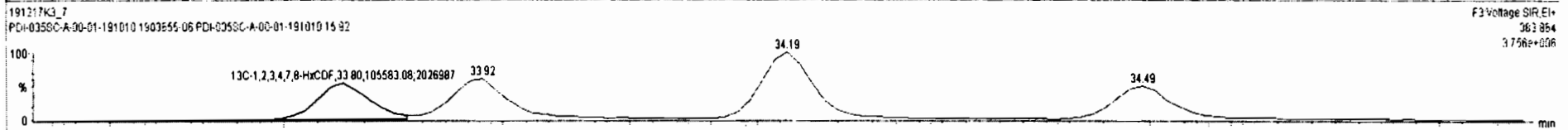
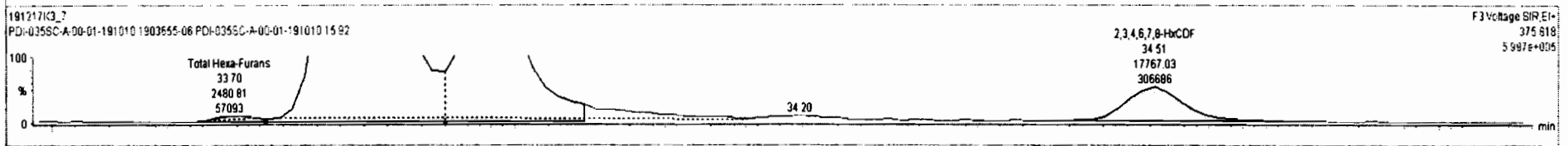
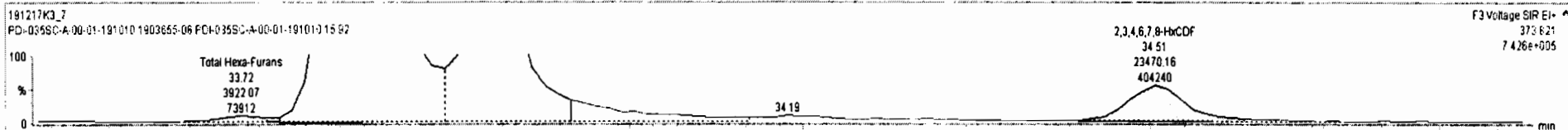
#	Name	Resp	RA	n/y	RRF	wtAval	RT	RRT	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9046	10.012			62.8	0.253	66.3	
41	Total Hexa-Dioxins				0.9675	10.012			1270	1.27	1270	
42	Total Hepta-Dioxins				1.0375	10.012			11600	7.27	11600	
43	Total Tetra-Furans				0.9376	10.012			350	0.349	363	
44	1st Func. Penta-Furans				0.9762	10.012			30.1	0.0740	30.1	
45	Total Penta-Furans				0.9762	10.012			516	0.467	516	
46	Total Hexa-Furans				1.1808	10.012			718	0.877	721	
47	Total Hepta-Furans				1.1300	10.012			1160	1.77	1160	
48	PFK1											

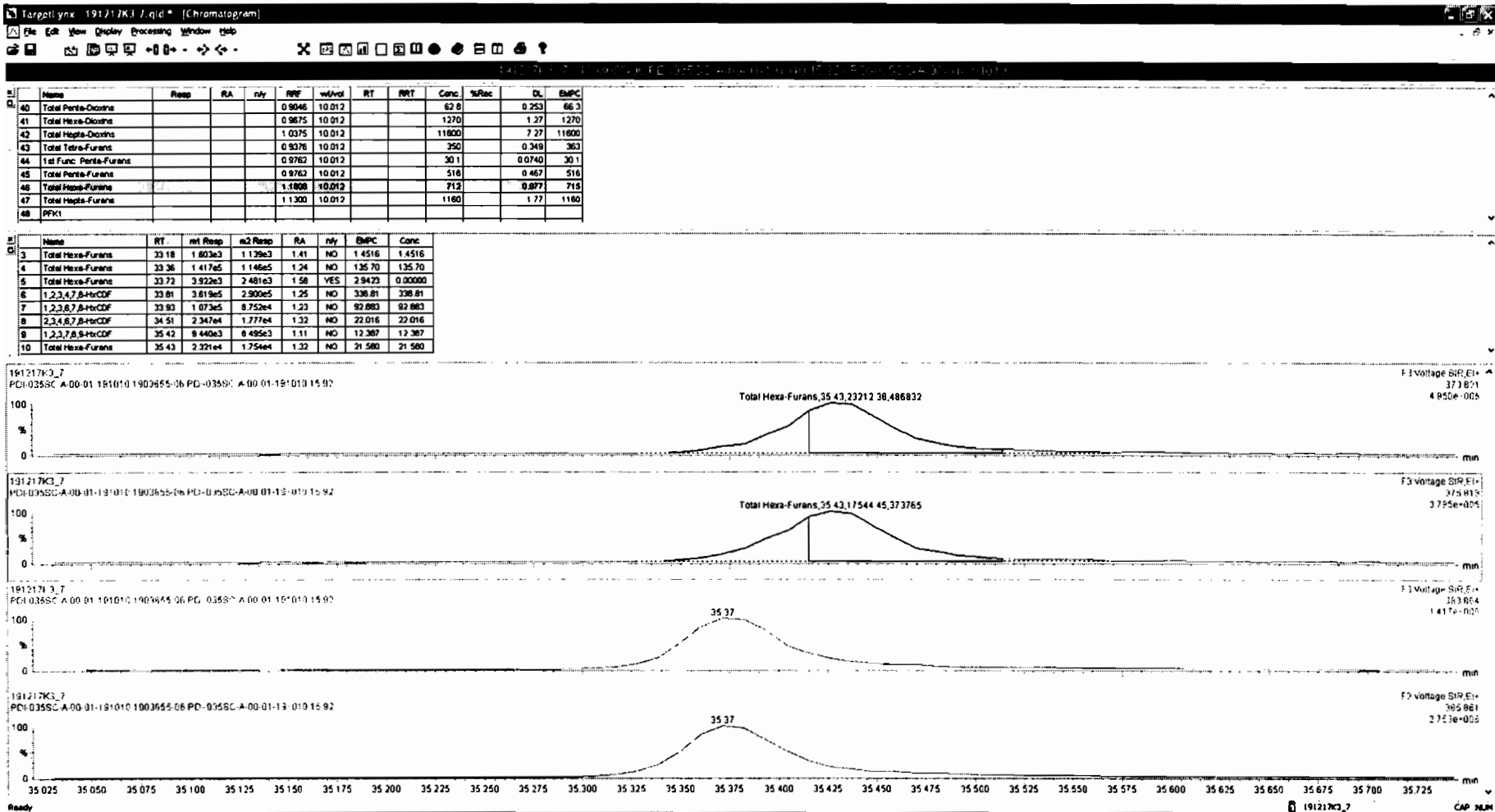
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	2,3,4,6,7,8-HxCDF	34.51	2.347e4	1.777e4	1.32	NO	22.016	22.016
2	1,2,3,6,7,8-HxCDF	33.93	1.073e5	8.752e4	1.23	NO	92.883	92.883
3	1,2,3,4,7,8-HxCDF	33.81	3.619e5	2.900e5	1.25	NO	338.81	338.81
4	Total Hexa-Furans	32.72	3.822e3	2.481e3	1.58	YES	2.9423	0.00000
5	Total Hexa-Furans	33.36	1.417e5	1.146e5	1.24	NO	135.70	135.70
6	Total Hexa-Furans	33.18	1.603e3	1.139e3	1.41	NO	1.4516	1.4516
7	Total Hexa-Furans	32.86	7.922e4	6.273e4	1.26	NO	75.158	75.158
8	Total Hexa-Furans	32.89	1.221e4	1.053e4	1.16	NO	12.040	12.040



Name	Resp	RA	nly	RRF	wtWtd	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9046	10.012			62.8		0.253	66.3
41 Total Hexa-Dioxins				0.9675	10.012			1270		1.27	1270
42 Total Hepta-Dioxins				1.0375	10.012			11600		7.27	11600
43 Total Tetra-Furans				0.9376	10.012			350		0.349	363
44 1st Func. Penta-Furans				0.9762	10.012			30.1		0.0740	30.1
45 Total Penta-Furans				0.9762	10.012			516		0.467	516
46 Total Hexa-Furans				1.1806	10.012			718		0.977	721
47 Total Hepta-Furans				1.1300	10.012			1160		1.77	1160
48 PFK1											

Name	RT	Int Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	32.69	1.221e4	1.053e4	1.16	NO	12.040	12.040
2 Total Hexa-Furans	32.86	7.922e4	6.273e4	1.26	NO	75.158	75.158
3 Total Hexa-Furans	33.18	1.603e3	1.139e3	1.41	NO	1.4516	1.4516
4 Total Hexa-Furans	33.36	1.417e5	1.146e5	1.24	NO	135.70	135.70
5 Total Hexa-Furans	33.72	3.922e3	2.481e3	1.59	YES	2.9423	0.00000
6 1,2,3,4,7,8-HxCDF	33.81	3.619e5	2.900e5	1.25	NO	338.81	338.81
7 1,2,3,6,7,8-HxCDF	33.93	1.073e5	8.752e4	1.23	NO	92.863	92.863
8 2,3,4,6,7,8-HxCDF	34.51	2.347e4	1.777e4	1.32	NO	22.016	22.016





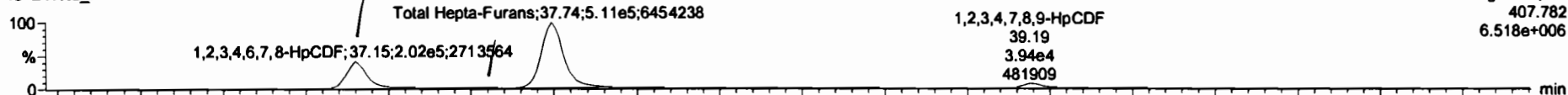
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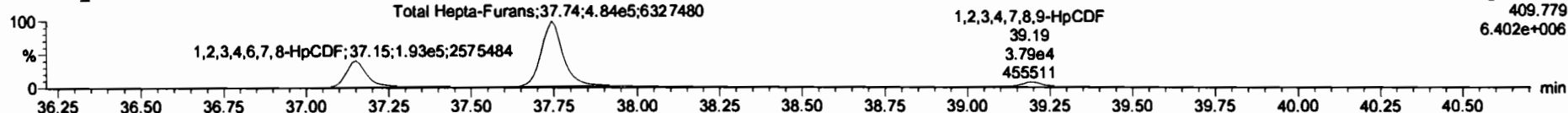
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**1,2,3,4,6,7,8-HpCDF**

191217K3\_7

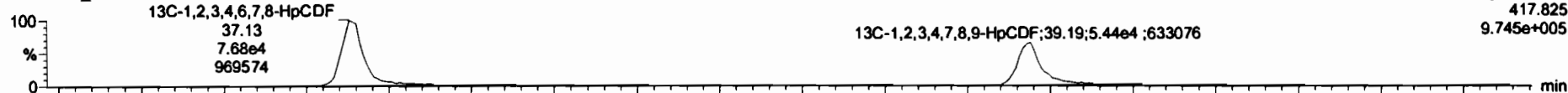


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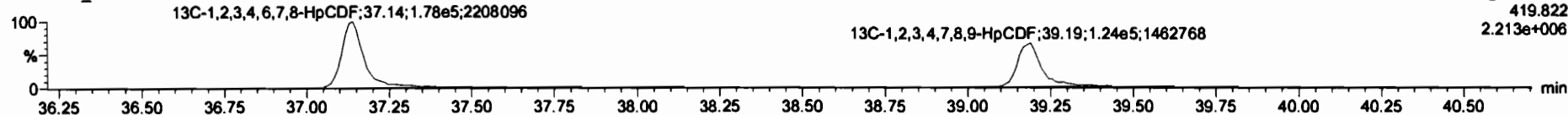


**13C-1,2,3,4,6,7,8-HpCDF**

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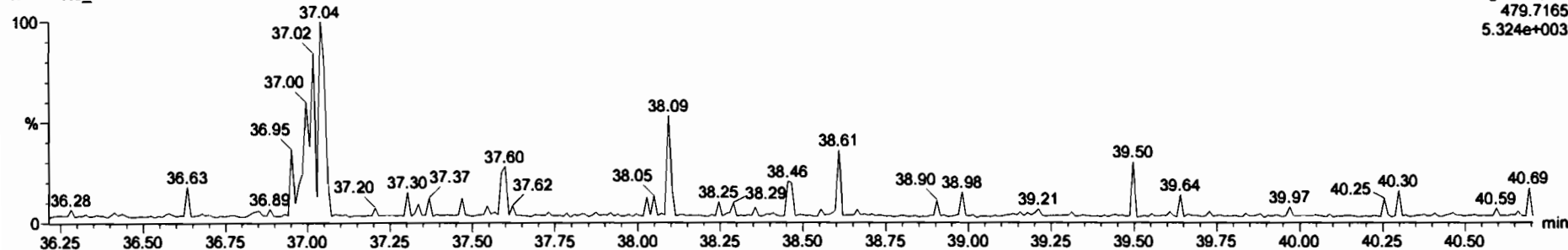


191217K3\_7



**DPE4**

191217K3\_7

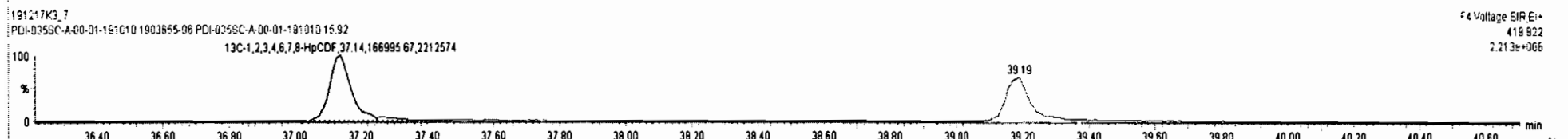
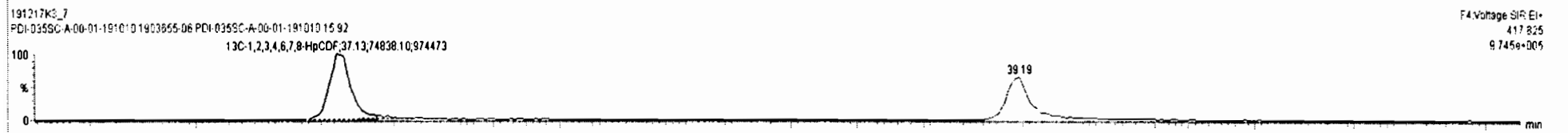
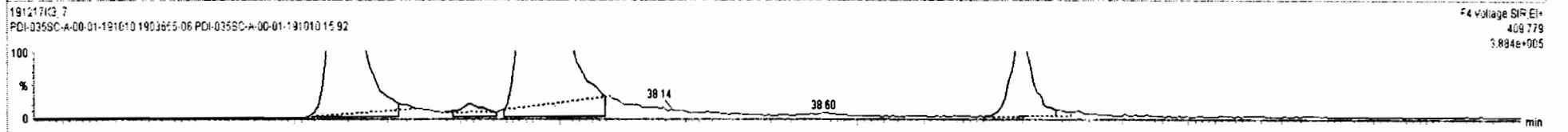
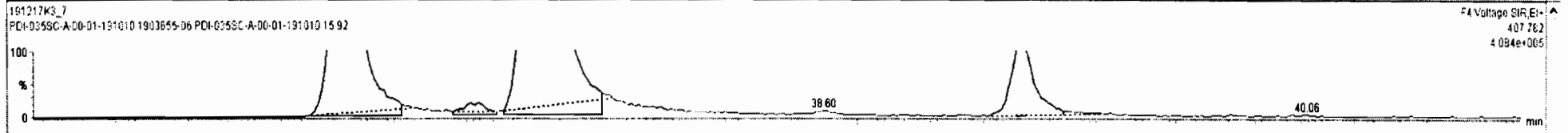




191217K3\_7\_1903655\_06.PDI-0355C-A-00-01-191010 15.92.PDI-0355C-A-00-01-191010

#	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	BMP
40	Total Penta-Dioxins				0.9046	10.012			62.8	0.253	66.3	
41	Total Hexa-Dioxins				0.9675	10.012			1270	1.27	1270	
42	Total Hepta-Dioxins				1.0375	10.012			11600	7.27	11600	
43	Total Tetra-Furans				0.9376	10.012			350	0.349	363	
44	1st Func. Penta-Furans				0.9762	10.012			30.1	0.0740	30.1	
45	Total Penta-Furans				0.9762	10.012			516	0.467	516	
46	Total Hexa-Furans				1.1806	10.012			712	0.977	715	
47	Total Hepta-Furans				1.1300	10.012			1250	1.80	1250	
48	PFK1											

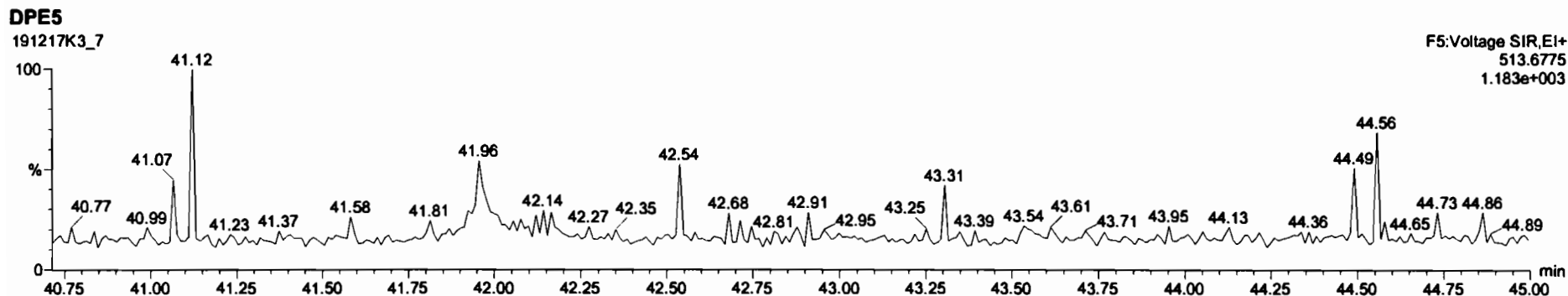
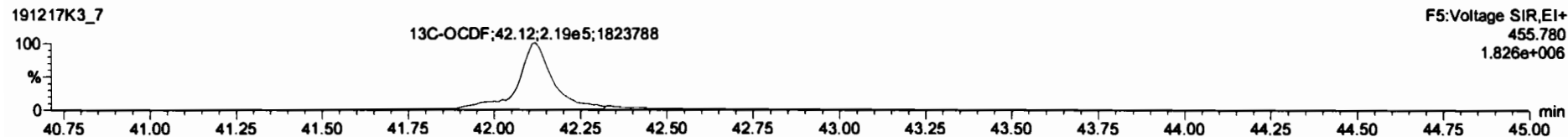
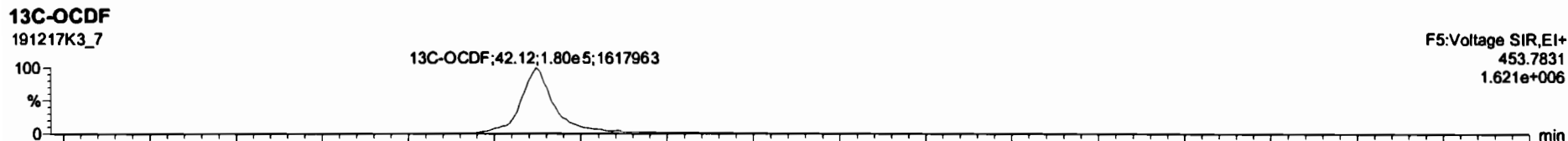
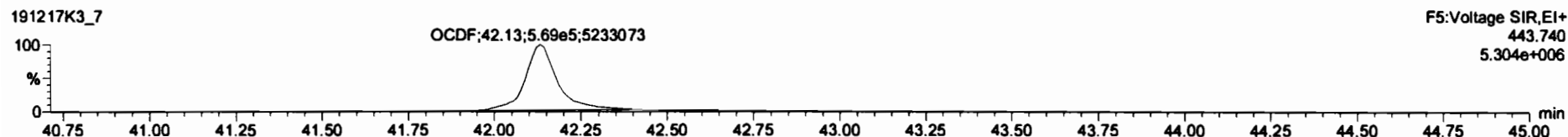
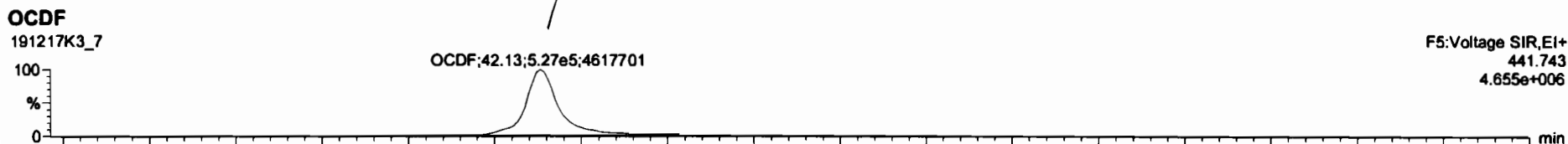
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	BMP	Conc.
1	1,2,3,4,6,7,8-HpCDF	37.15	2.079e5	1.985e5	1.05	NO	297.08	297.08
2	Total Hepta-Furans	37.56	6.504e3	6.442e3	1.01	NO	10.888	10.888
3	Total Hepta-Furans	37.74	5.281e5	5.086e5	1.04	NO	871.90	871.90
4	1,2,3,4,7,8,9-HpCDF	39.19	3.799e4	3.628e4	1.05	NO	65.878	65.878



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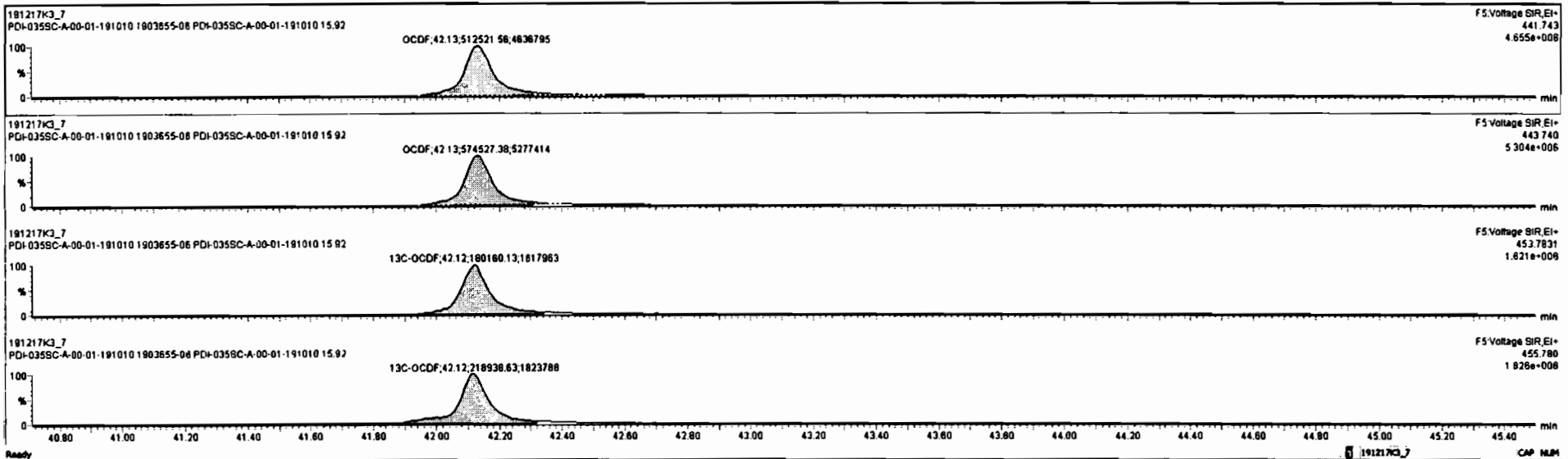
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Name	Resp	RA	nty	RNF	wtAve	RT	RRT	Conc.	%Rec	DL	EMPC
15 1,2,3,4,6,7,8-HpCDF	3.95e5	1.04	NO	1.1300	10.012	37.15	1.001	274		1.44	274
16 1,2,3,4,7,8,9-HpCDF	7.73e4	1.04	NO	1.2600	10.012	38.19	1.000	68.8		2.00	68.8
17 OCDF	1.02e6	0.88	NO	1.1020	10.012	42.12	1.000	887		2.89	887
19 13C-2,3,7,8-TCDF	4.00e5	0.75	NO	1.0460	10.012	28.21	1.028	141	70.5	0.462	
18 13C-1,2,3,7,8-PeCDD	3.14e5	0.59	NO	0.7420	10.012	31.31	1.227	158	78.2	0.524	
20 13C-1,2,3,4,7,8-HxCDD	2.04e5	1.25	NO	0.6463	10.012	34.87	1.014	115	57.3	0.657	
21 13C-1,2,3,6,7,8-HxCDD	2.84e5	1.28	NO	0.7767	10.012	34.77	1.017	132	66.3	0.546	
22 13C-1,2,3,7,8-HxCDD	2.41e5	1.31	NO	0.6596	10.012	35.04	1.025	132	66.3	0.643	
23 13C-1,2,3,4,6,7,8-HpCDD	1.98e5	1.02	NO	0.5342	10.012	38.59	1.120	135	67.5	0.825	
24 13C-OCDD	2.77e5	0.91	NO	0.4704	10.012	41.84	1.227	214	53.5	0.980	
25 13C-2,3,7,8-TCDF	5.41e5	0.73	NO	0.9775	10.012	25.24	0.989	133	66.5	0.466	

Name	RT	ret Resp	m2 Resp	RA	nty	EMPC	Conc.

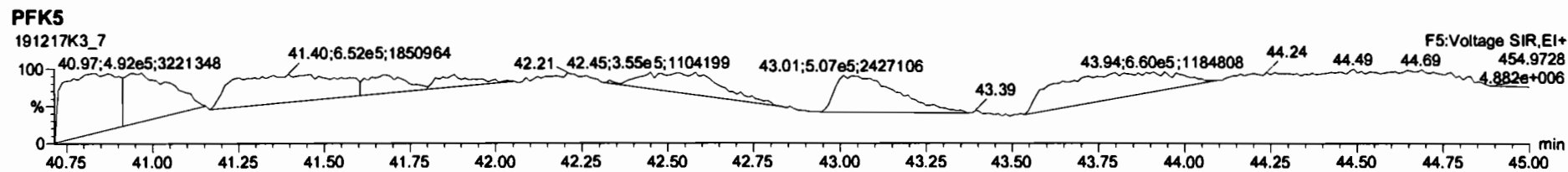
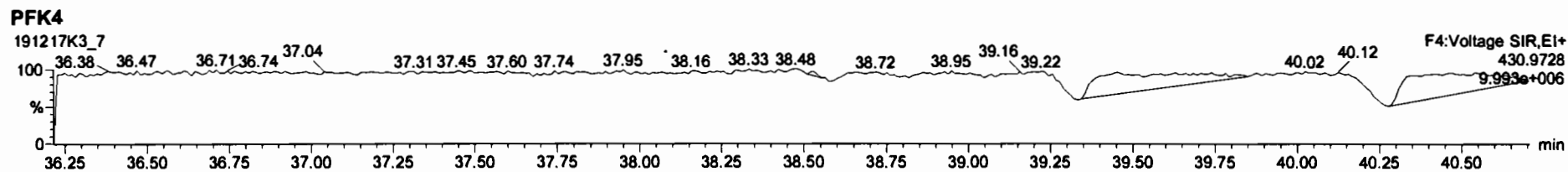
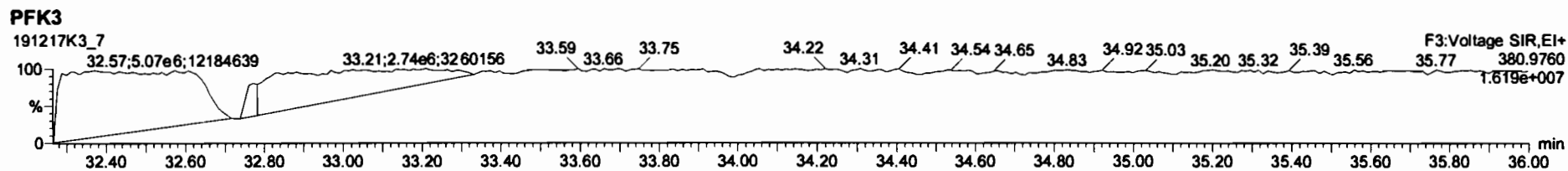
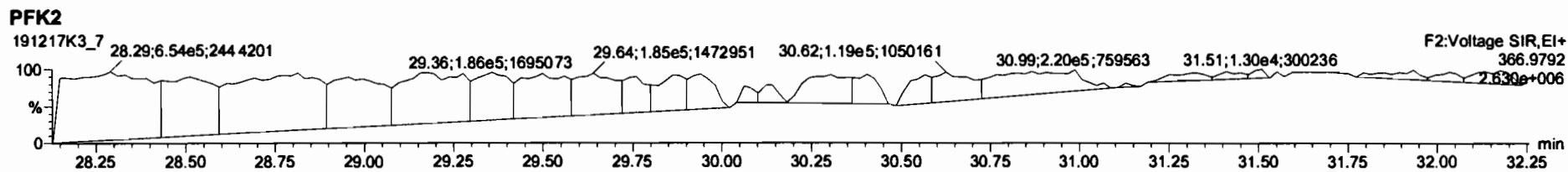
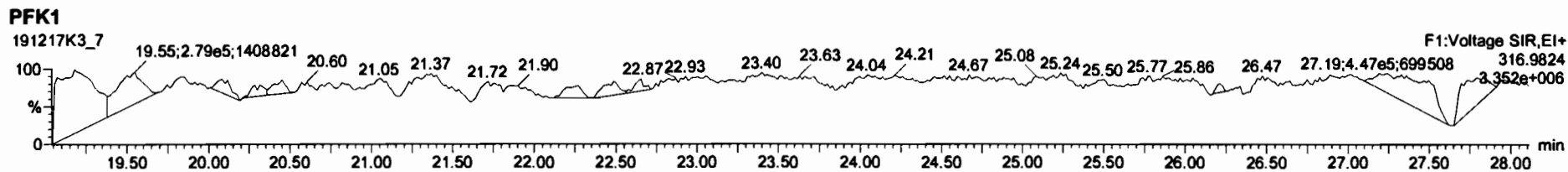


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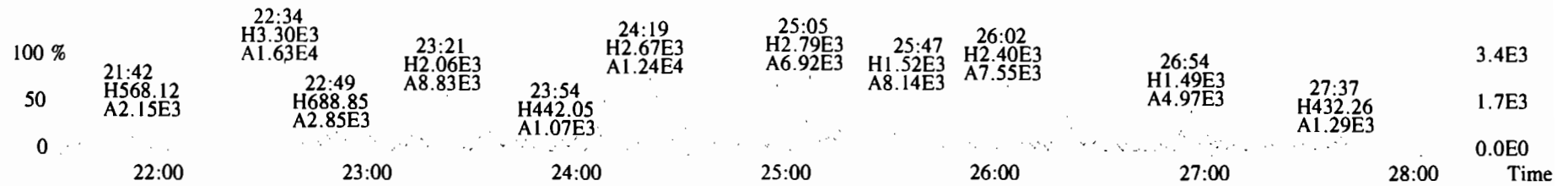


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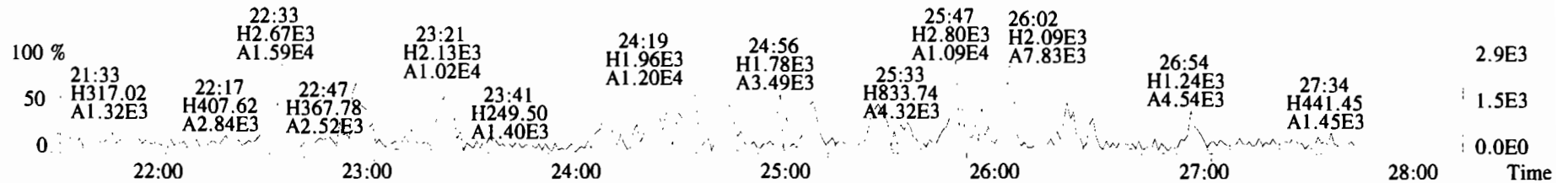
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2,3,7,8-TCDD	*	* n	0.91	Not F <sub>q</sub>	*	*	2.5	*	*	Total Tetra-Dioxins	*	*	*	*	*
1,2,3,7,8-PeCDD	*	* n	0.90	Not F <sub>q</sub>	*	*	2.5	*	*	Total Penta-Dioxins	*	*	*	*	*
1,2,3,4,7,8-HxCDD	*	* n	1.10	Not F <sub>q</sub>	*	*	2.5	*	*	Total Hexa-Dioxins	*	*	*	*	*
1,2,3,6,7,8-HxCDD	*	* n	0.94	Not F <sub>q</sub>	*	*	2.5	*	*	Total Hepta-Dioxins	5080	5080	*	*	*
1,2,3,7,8,9-HxCDD	*	* n	0.96	Not F <sub>q</sub>	*	*	2.5	*	*	Total Tetra-Furans	*	*	*	*	*
1,2,3,4,6,7,8-HpCDD	1.74e+07	1.02 y	0.98	37:46	5079.3	*	2.5	*	*	Total Penta-Furans	0.0000	0.0000	*	*	*
OCDD	6.95e+07	0.93 y	0.96	41:02	30742	*	2.5	*	*	Total Hexa-Furans	*	*	*	*	*
										Total Hepta-Furans	*	*	*	*	*
2,3,7,8-TCDF	*	* n	0.95	Not F <sub>q</sub>	*	*	2.5	*	*						
1,2,3,7,8-PeCDF	*	* n	0.96	Not F <sub>q</sub>	*	*	2.5	*	*						
2,3,4,7,8-PeCDF	*	* n	1.01	Not F <sub>q</sub>	*	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	*	* n	1.18	Not F <sub>q</sub>	*	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	*	* n	1.07	Not F <sub>q</sub>	*	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	*	* n	1.11	Not F <sub>q</sub>	*	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	*	* n	1.06	Not F <sub>q</sub>	*	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	*	* n	1.13	Not F <sub>q</sub>	*	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	*	* n	1.28	Not F <sub>q</sub>	*	*	2.5	*	*						
OCDF	*	* n	0.95	Not F <sub>q</sub>	*	*	2.5	*	*						
										Rec	Qual				
IS 13C-2,3,7,8-TCDD	1.15e+06	0.85 y	1.10	26:01	143.59					71.9					
IS 13C-1,2,3,7,8-PeCDD	8.79e+05	0.63 y	0.88	30:34	135.96					68.1					
IS 13C-1,2,3,4,7,8-HxCDD	7.39e+05	1.22 y	0.64	33:53	138.42					69.3					
IS 13C-1,2,3,6,7,8-HxCDD	8.50e+05	1.33 y	0.86	33:60	119.56					59.8					
IS 13C-1,2,3,7,8,9-HxCDD	8.07e+05	1.29 y	0.81	34:18	120.30					60.2					
IS 13C-1,2,3,4,6,7,8-HpCDD	7.00e+05	1.04 y	0.65	37:46	128.74					64.4					
IS 13C-OCDD	9.43e+05	0.87 y	0.58	41:01	195.66					49.0					
IS 13C-2,3,7,8-TCDF	1.58e+06	0.76 y	1.03	25:13	132.00					66.1					
IS 13C-1,2,3,7,8-PeCDF	1.44e+06	1.56 y	0.85	29:24	145.84					73.0					
IS 13C-2,3,4,7,8-PeCDF	1.29e+06	1.49 y	0.85	30:17	131.68					65.9					
IS 13C-1,2,3,4,7,8-HxCDF	9.80e+05	0.53 y	0.83	32:60	141.82					71.0					
IS 13C-1,2,3,6,7,8-HxCDF	1.17e+06	0.53 y	1.03	33:07	135.71					67.9					
IS 13C-2,3,4,6,7,8-HxCDF	1.02e+06	0.53 y	0.95	33:44	128.23					64.2					
IS 13C-1,2,3,7,8,9-HxCDF	9.45e+05	0.55 y	0.83	34:40	137.43					68.8					
IS 13C-1,2,3,4,6,7,8-HpCDF	8.70e+05	0.42 y	0.76	36:30	138.20					69.2					
IS 13C-1,2,3,4,7,8,9-HpCDF	6.76e+05	0.43 y	0.58	38:18	139.94					70.0					
IS 13C-OCDF	1.29e+06	0.94 y	0.69	41:14	225.74					56.5					
C/Up 37Cl-2,3,7,8-TCDD	4.46e+05		1.20	26:02	50.772					63.5					
RS/RT 13C-1,2,3,4-TCDD	1.47e+06	0.88 y	1.00	25:26	199.78										
RS 13C-1,2,3,4-TCDF	2.30e+06	0.79 y	1.00	23:57	199.78										
RS/RT 13C-1,2,3,4,6,9-HxCDF	1.66e+06	0.52 y	1.00	33:25	199.78										

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 Date: 1/6/20  
 Reviewed  
 by MU  
 Analyst: MU  
 Date: 1/7/20

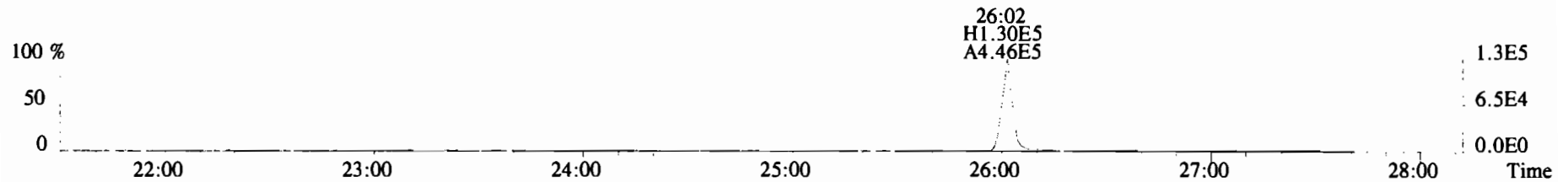
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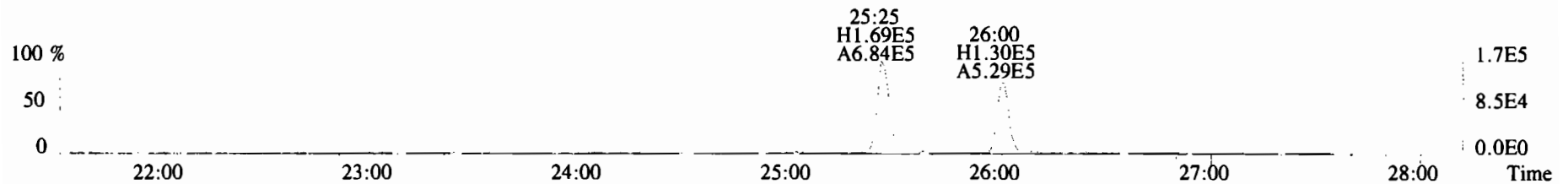
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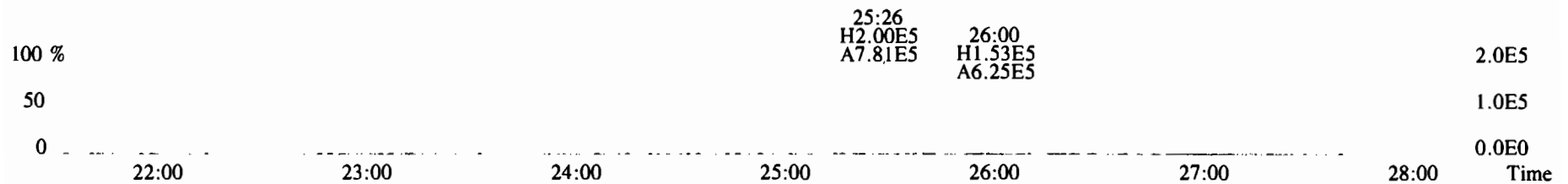
327.8847 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



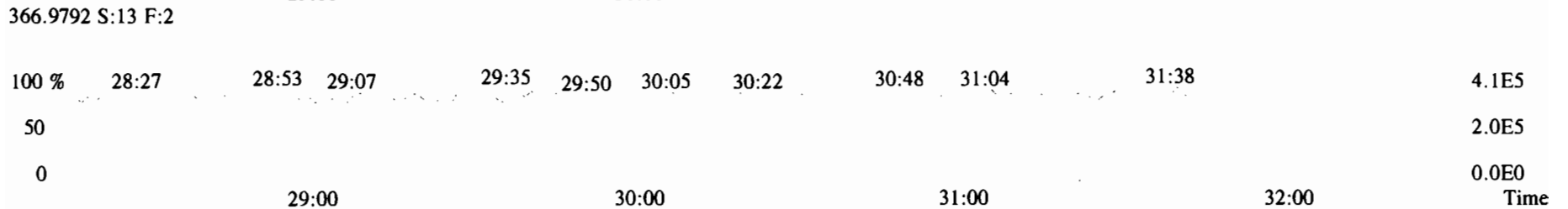
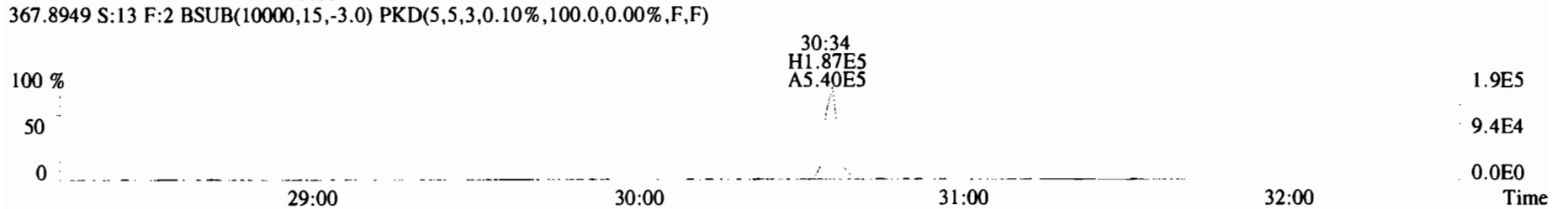
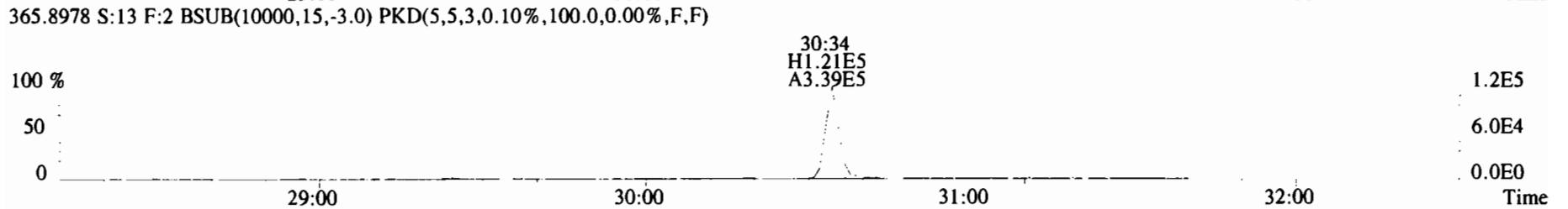
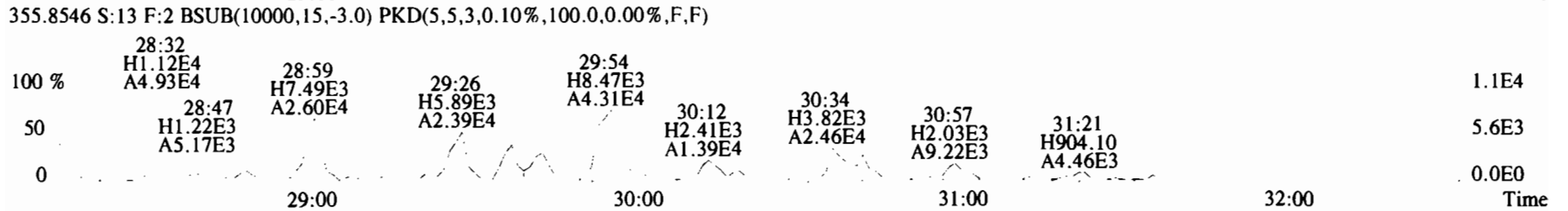
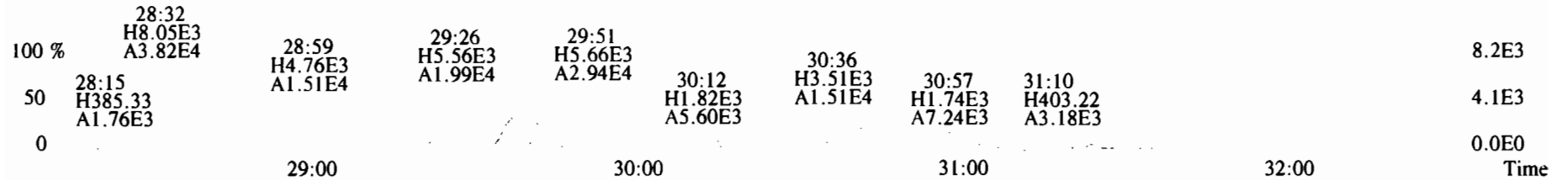
331.9368 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



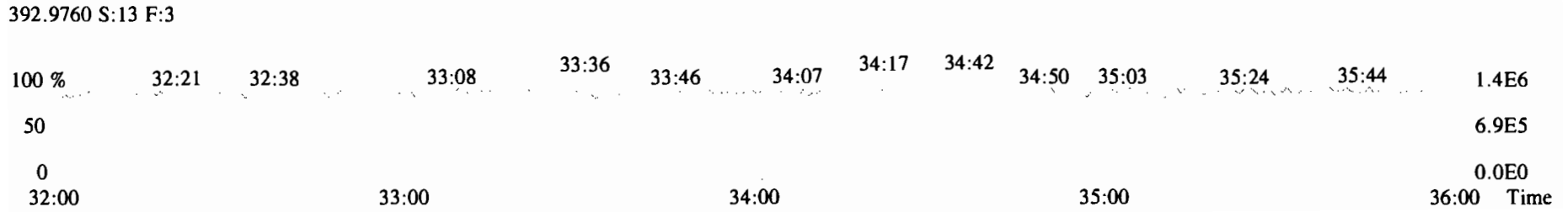
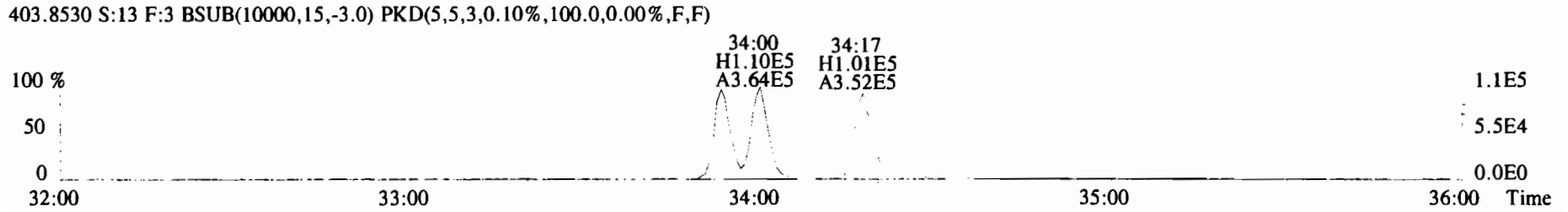
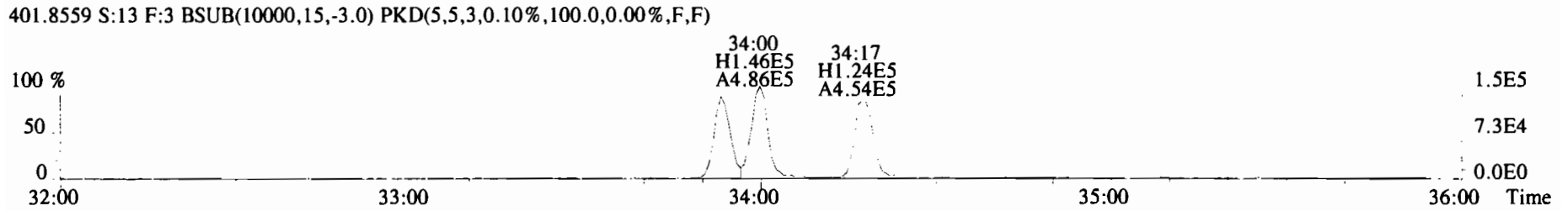
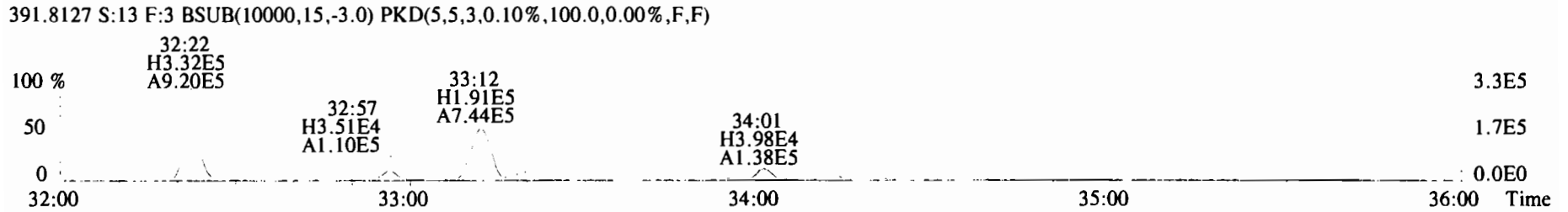
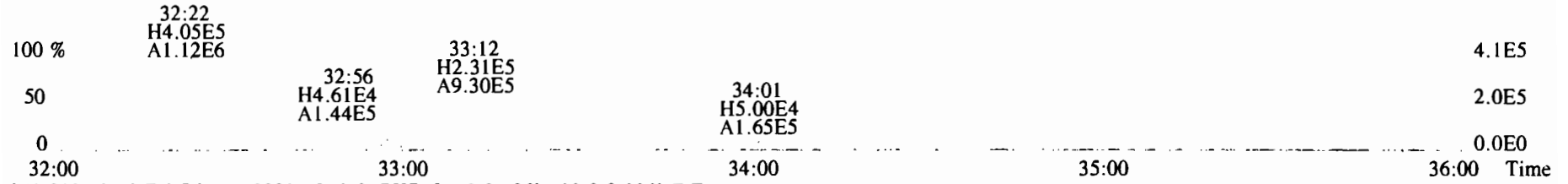
333.9339 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:200103D2 #1-210 Acq: 4-JAN-2020 00:25:25 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#13 File Text:Vista Analytical Laboratory VG7 Text:1903655-06@10X PDI-035SC-A-00-01-191010 1:10 10.0117 Exp:OCDDf  
 353.8576 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

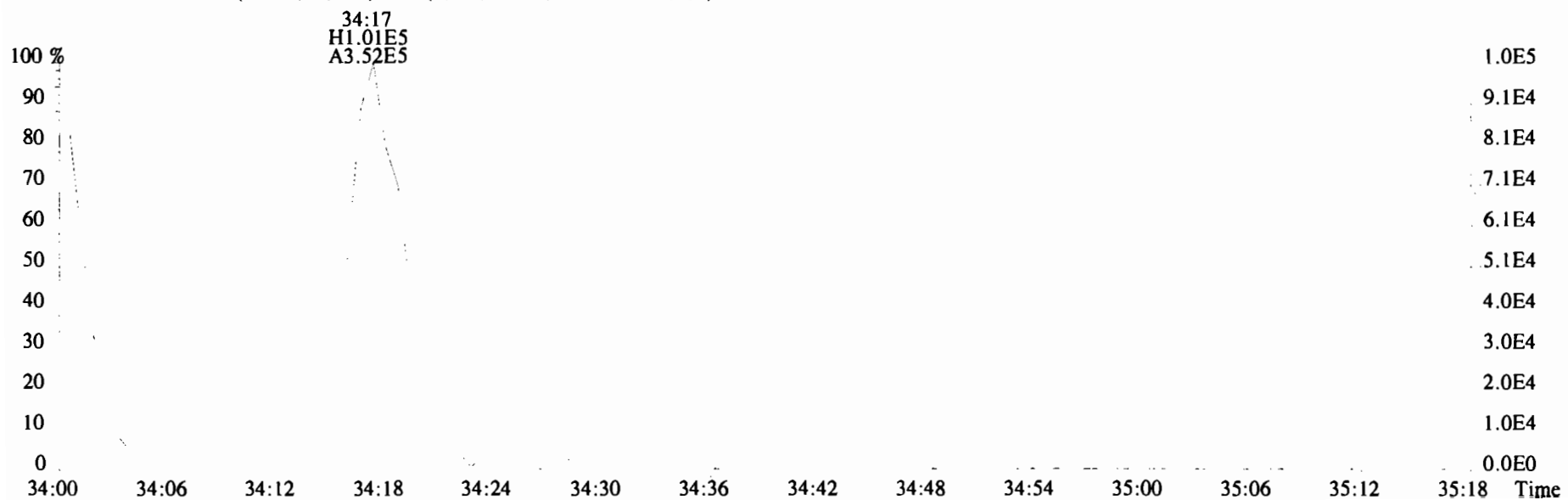
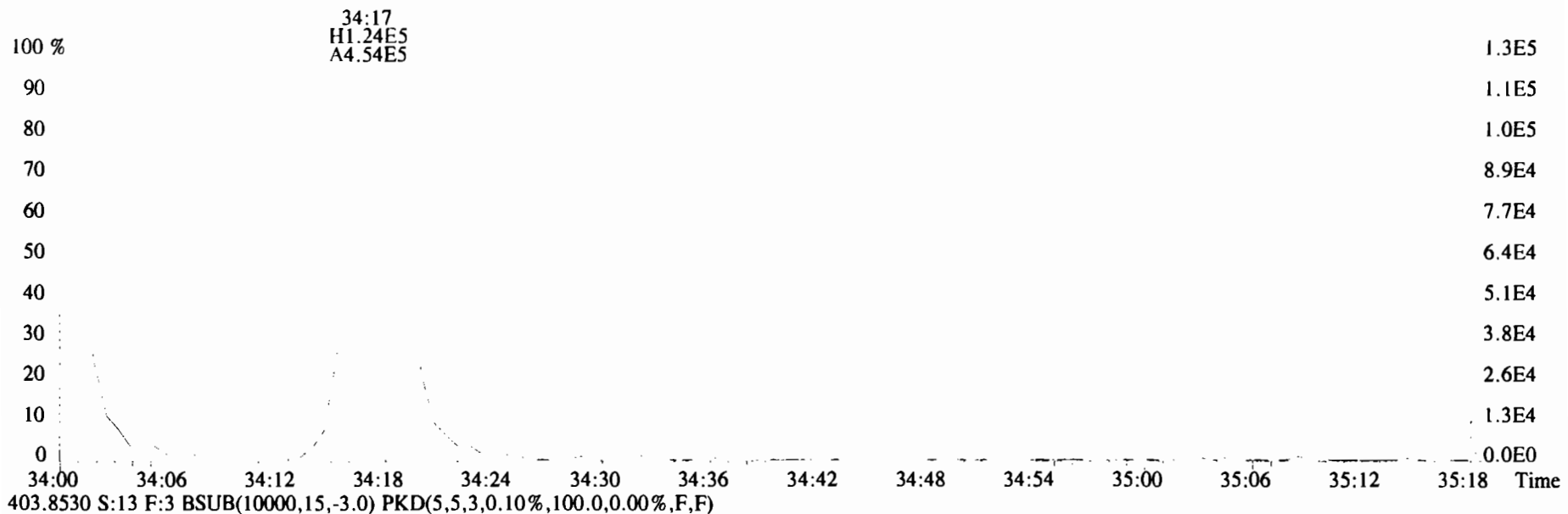


File:200103D2 #1-385 Acq: 4-JAN-2020 00:25:25 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#13 File Text:Vista Analytical Laboratory VG7 Text:1903655-06@10X PDI-035SC-A-00-01-191010 1:10 10.0117 Exp:OCDDF  
 389.8156 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

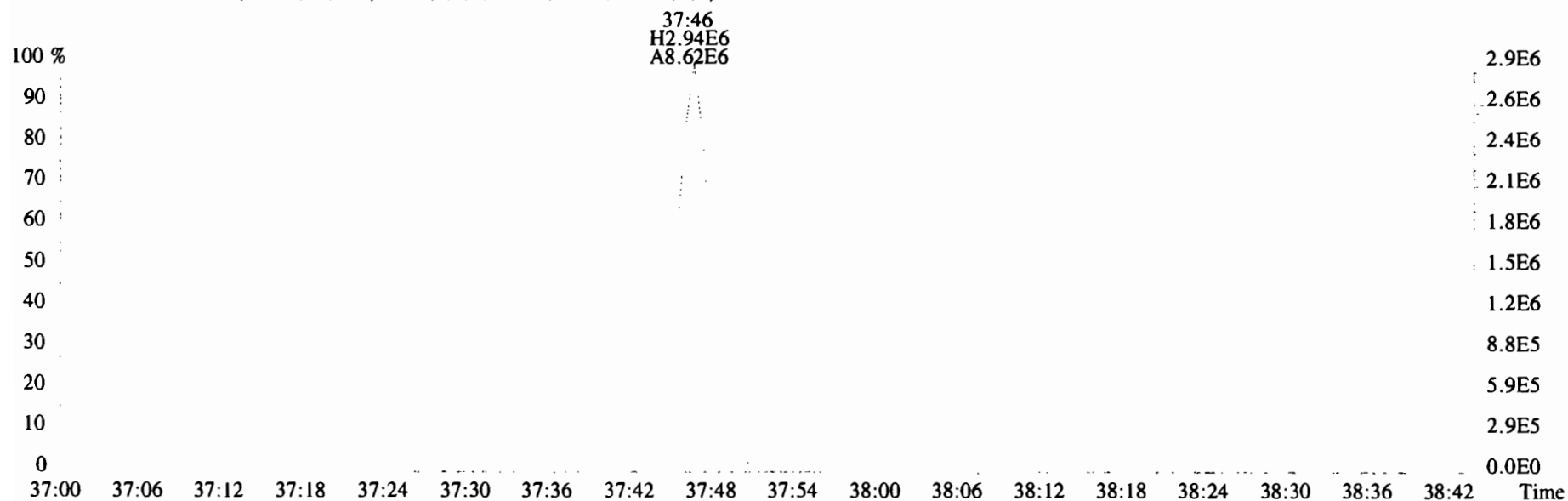
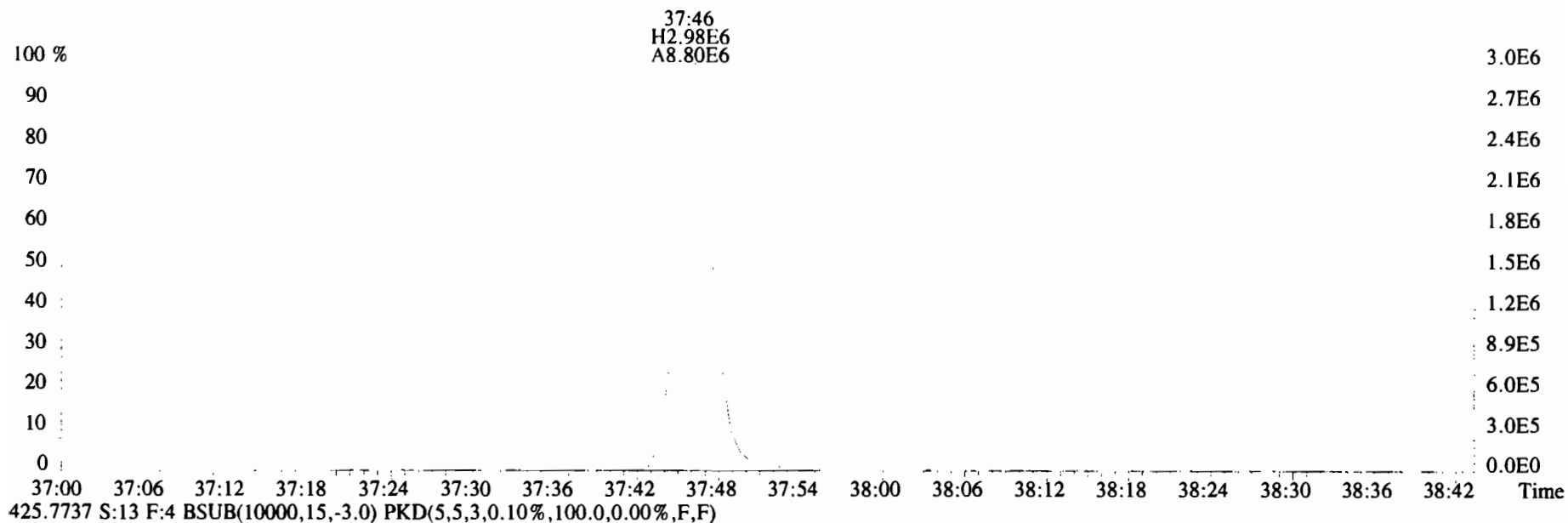




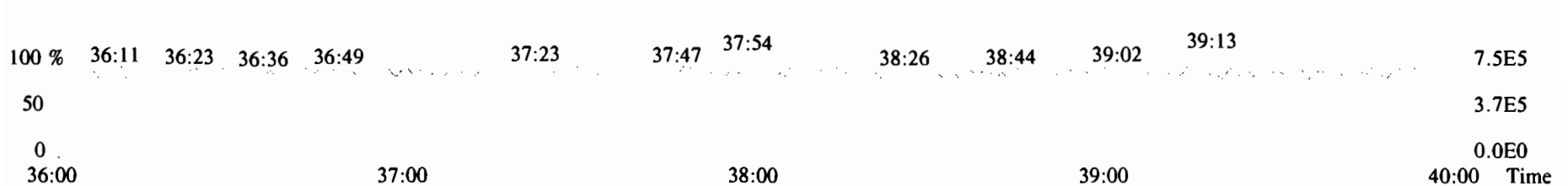
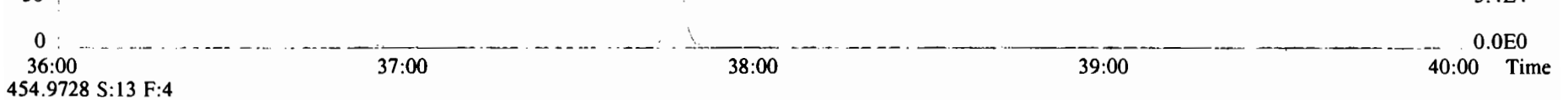
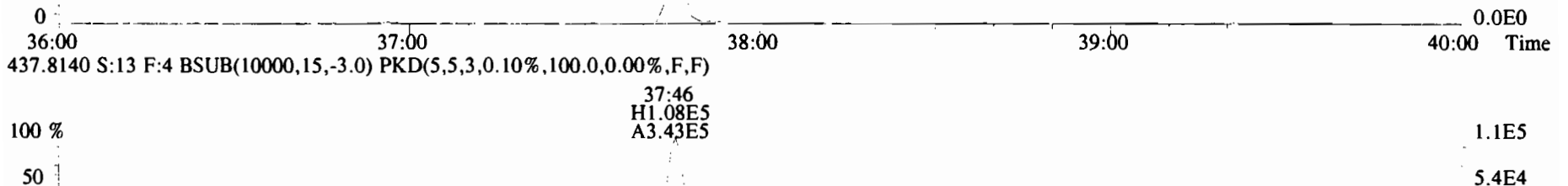
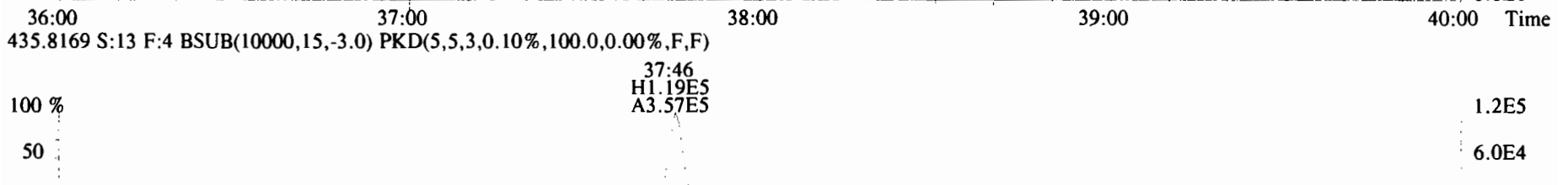
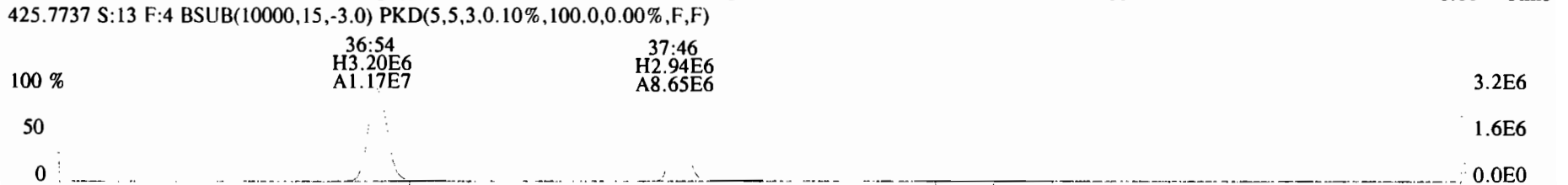
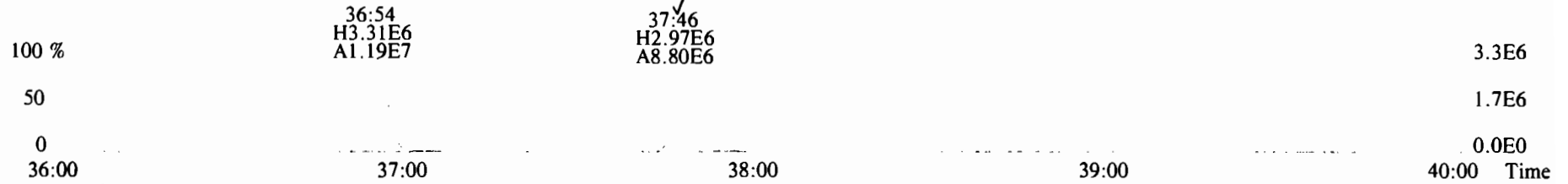
File:200103D2 #1-385 Acq: 4-JAN-2020 00:25:25 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#13 File Text:Vista Analytical Laboratory VG7 Text:1903655-06@10X PDI-035SC-A-00-01-191010 1:10 10.0117 Exp:OCDD£  
 401.8559 S:13 F:3 BSUB(T0000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



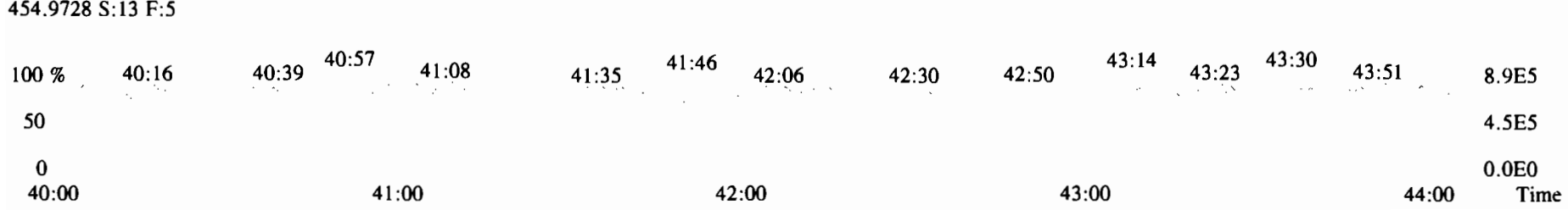
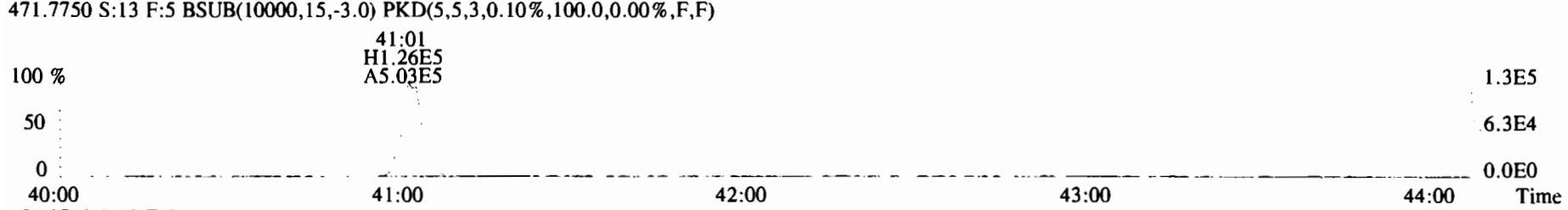
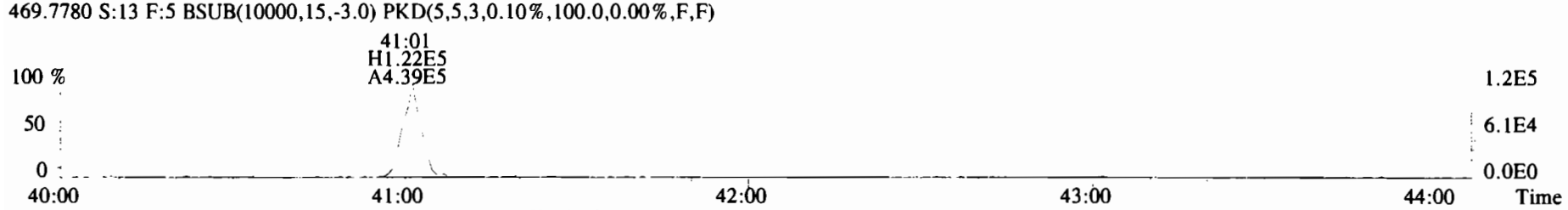
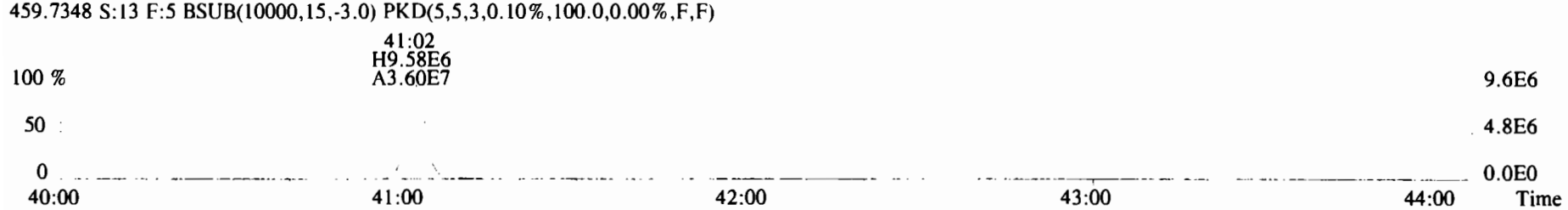
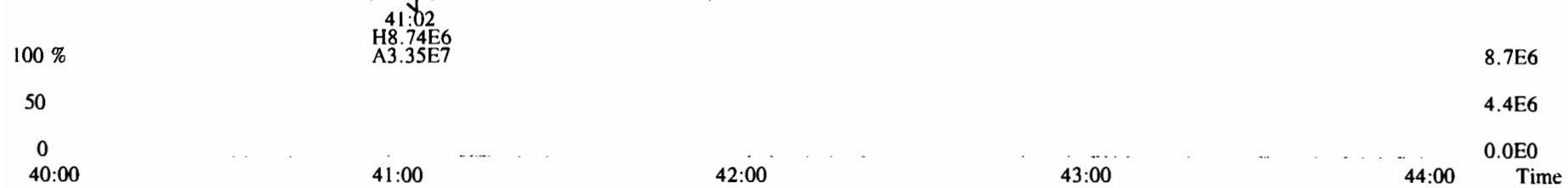
File:200103D2 #1-355 Acq: 4-JAN-2020 00:25:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#13 File Text:Vista Analytical Laboratory VG7 Text:1903655-06@10X PDI-035SC-A-00-01-191010 1:10 10.0117 Exp:OCDD£  
423.7767 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



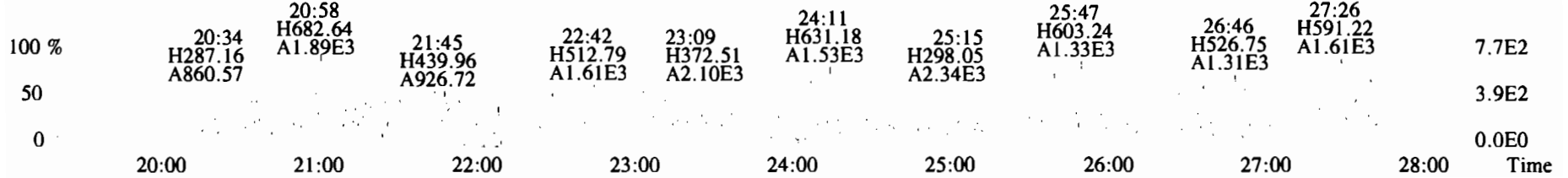
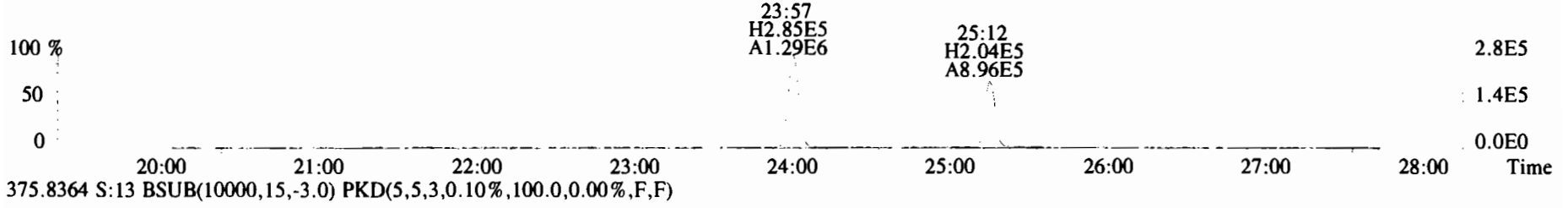
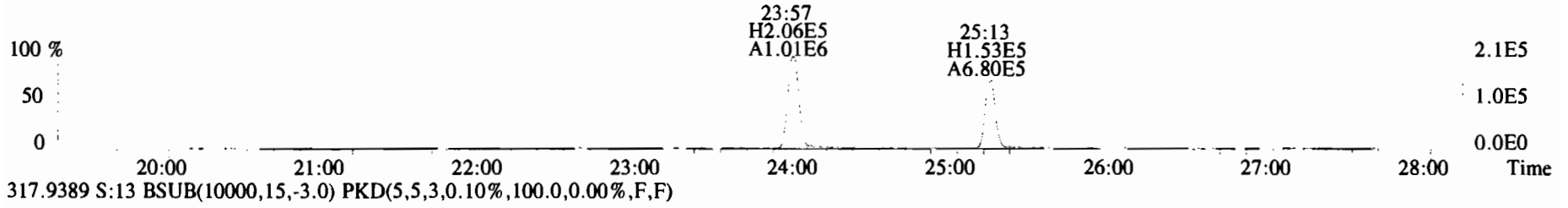
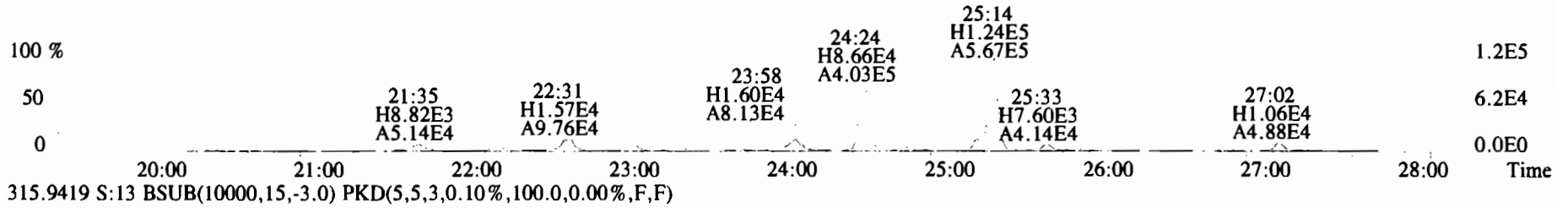
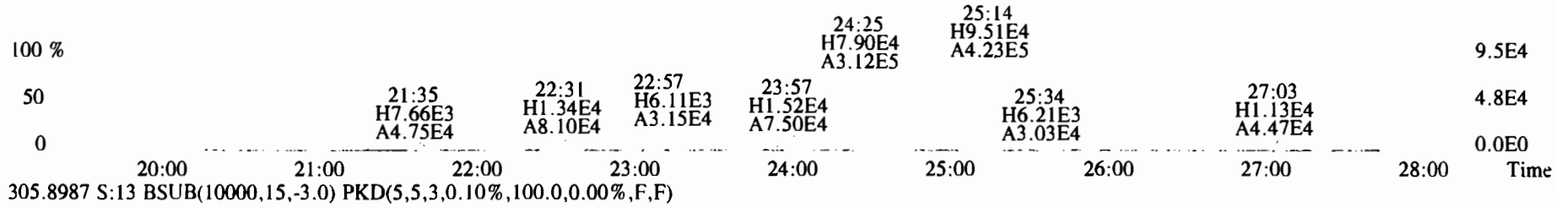
File:200103D2 #1-355 Acq: 4-JAN-2020 00:25:25 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#13 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:1903655-06@10X PDI-035SC-A-00-01-191010 1:10 10.0117 Exp:OCDD£  
 423.7767 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



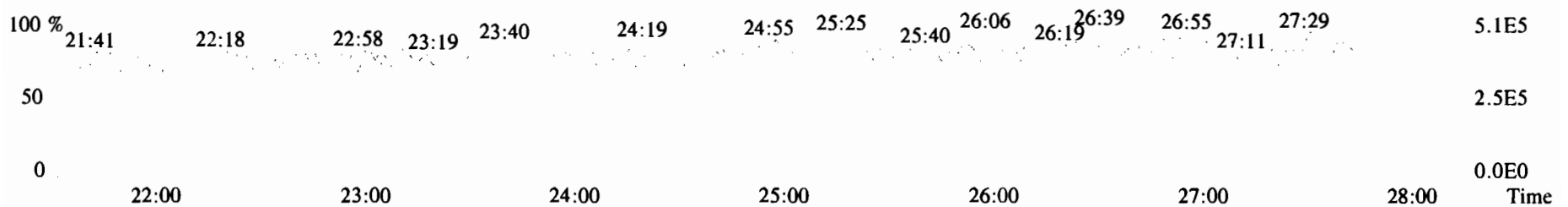
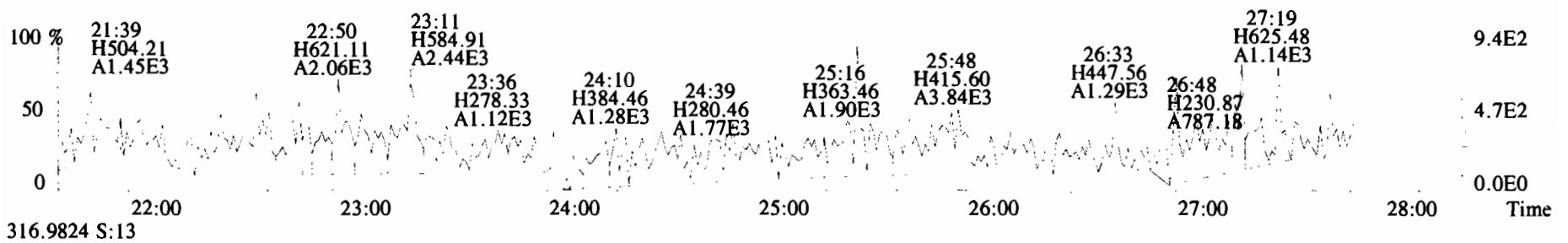
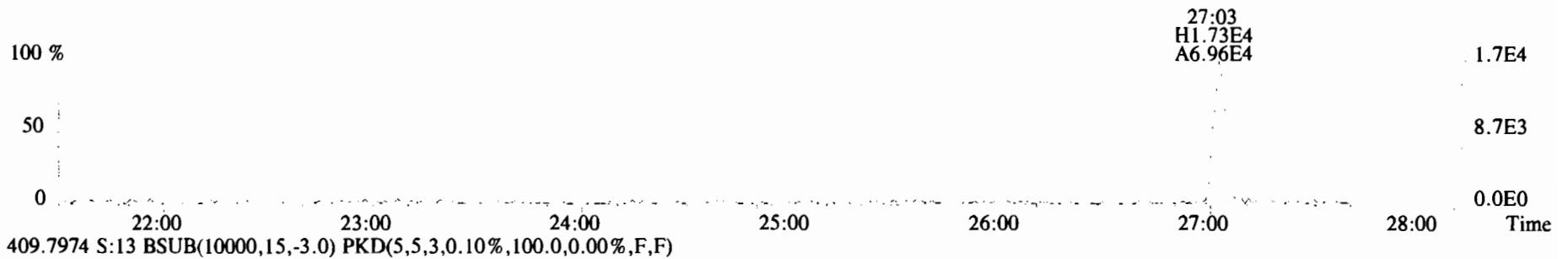
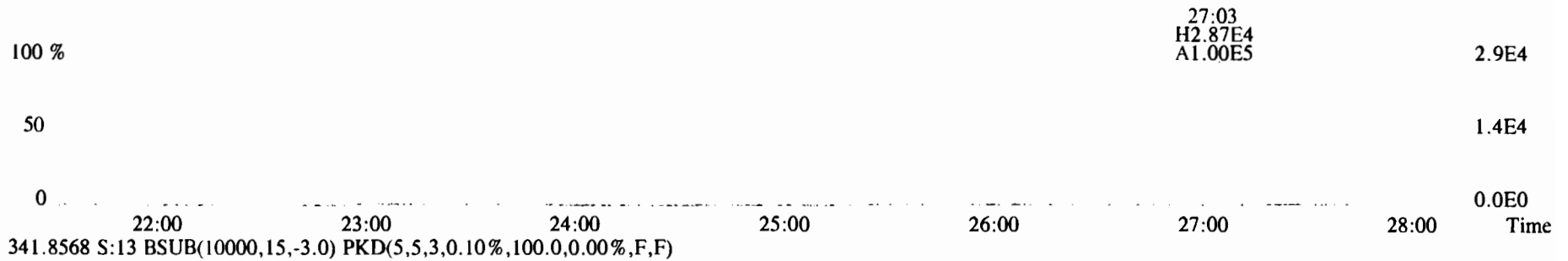
File:200103D2 #1-432 Acq: 4-JAN-2020 00:25:25 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#13 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:1903655-06@10X PDI-035SC-A-00-01-191010 1:10 10.0117 Exp:OCDD£  
 457.7377 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



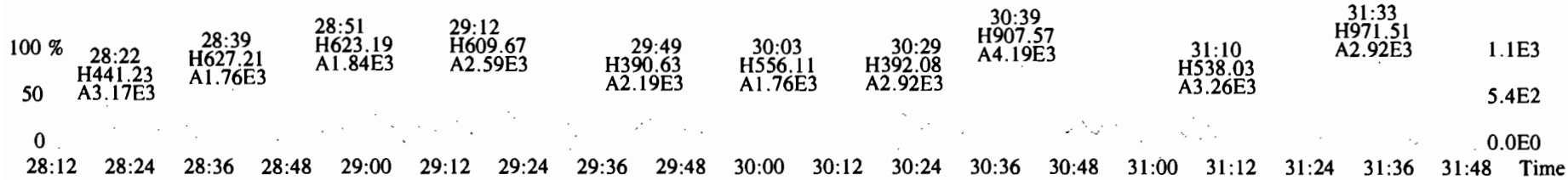
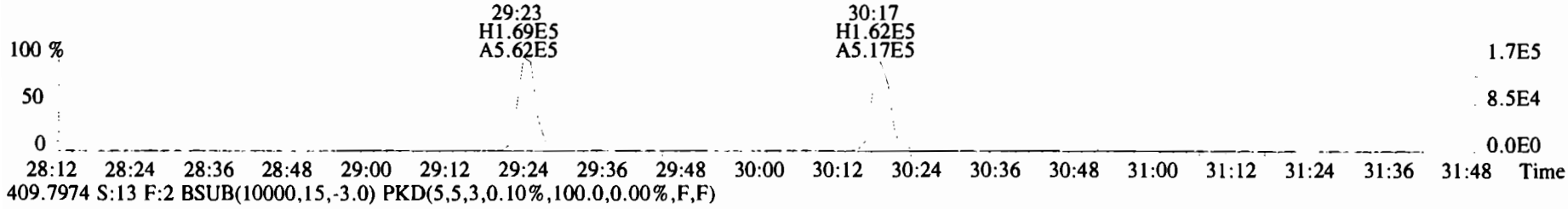
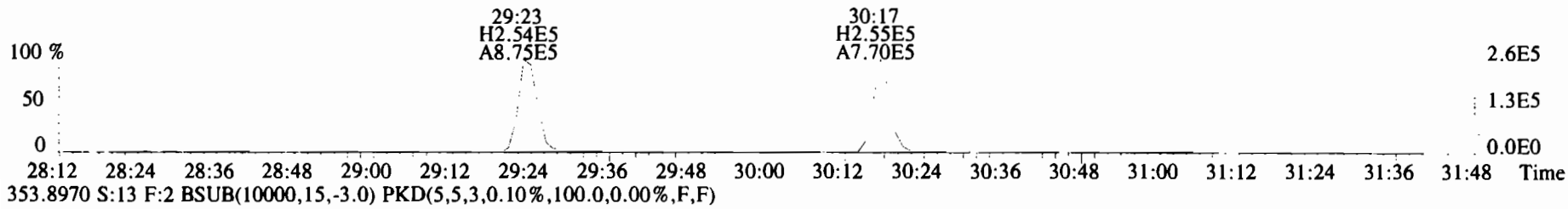
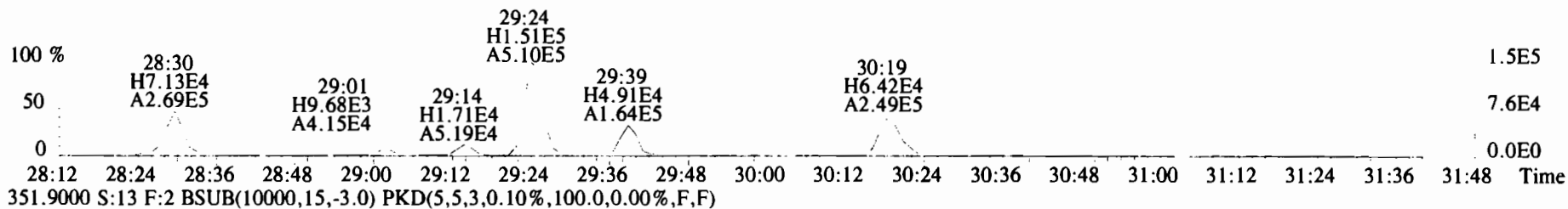
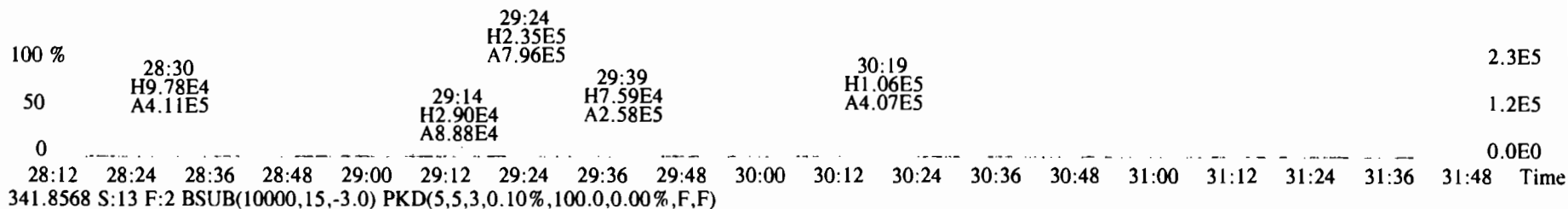
File:200103D2 #1-493 Acq: 4-JAN-2020 00:25:25 GC EI+ Voltage SIR Autospec-UltimaF  
 Sample#13 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:1903655-06@10X PDI-035SC-A-00-01-191010 1:10 10.0117 Exp:OCDDF  
 303.9016 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



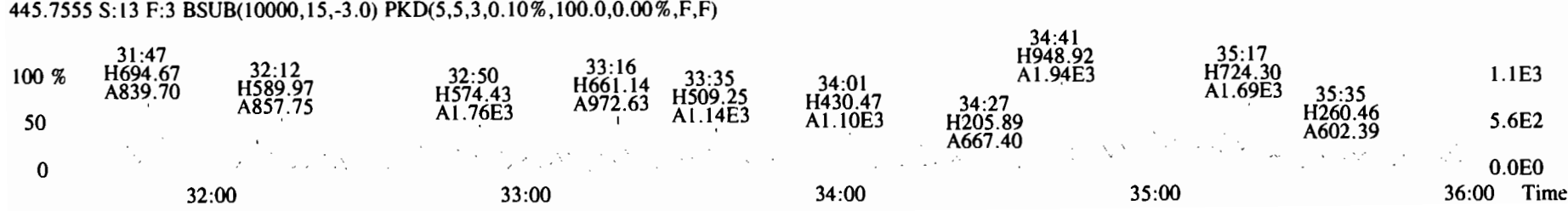
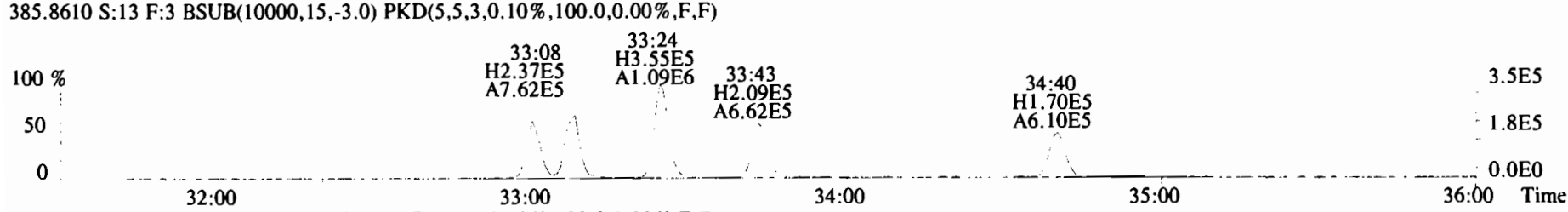
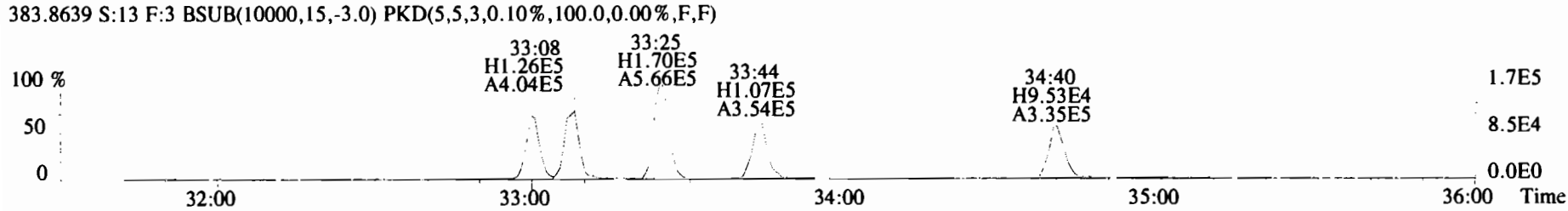
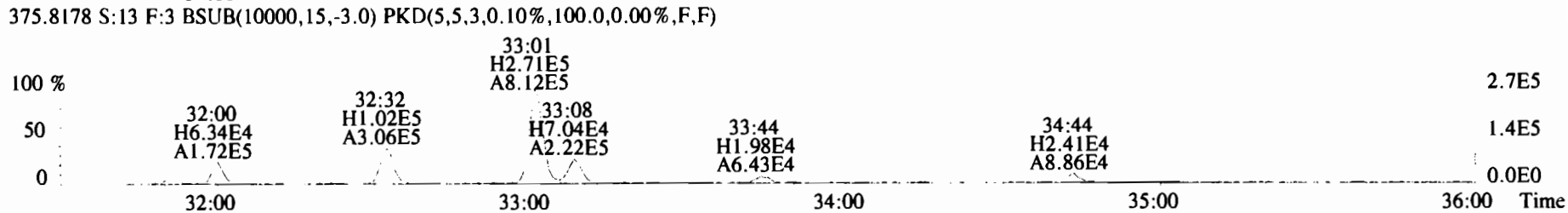
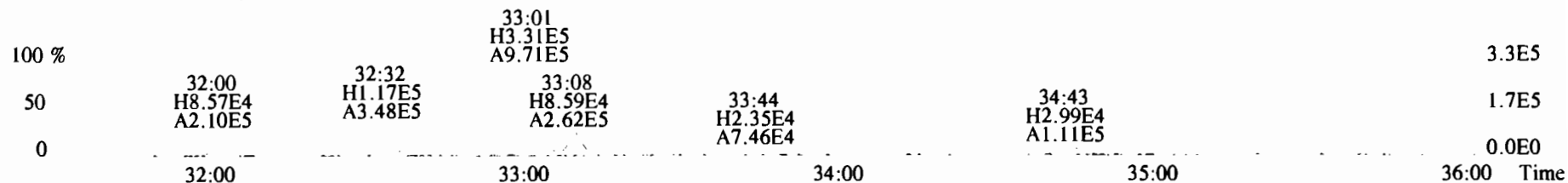
File:200103D2 #1-493 Acq: 4-JAN-2020 00:25:25 GC EI+ Voltage SIR Autospec-UltimaF  
 Sample#13 File Text:Vista Analytical Laboratory VG7 Text:1903655-06@10X PDI-035SC-A-00-01-191010 1:10 10.0117 Exp:OCDD£  
 339.8597 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:200103D2 #1-210 Acq: 4-JAN-2020 00:25:25 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#13 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:1903655-06@10X PDI-035SC-A-00-01-191010 1:10 10.0117 Exp:OCDD£  
 339.8597 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

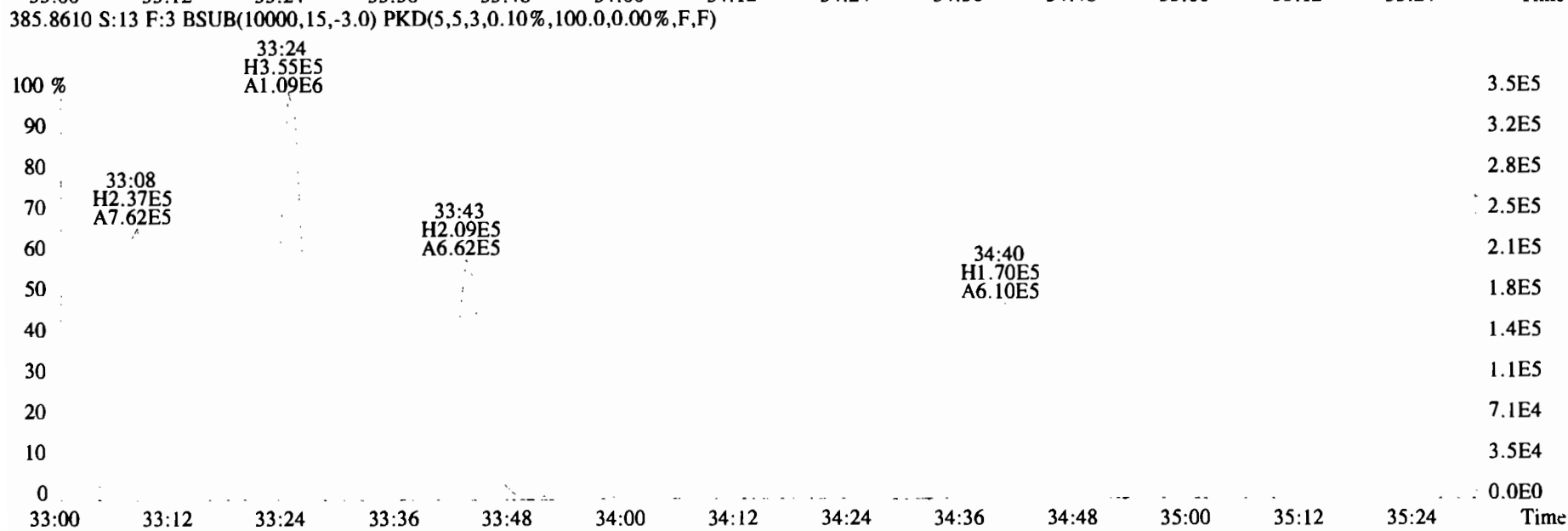
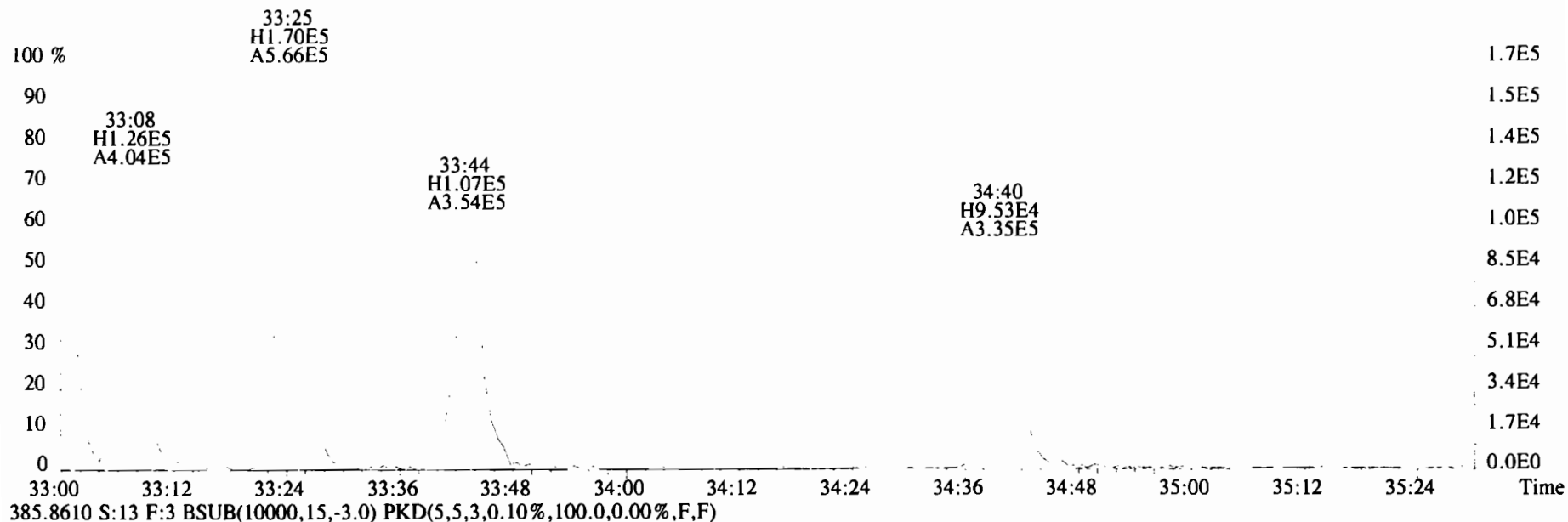


File:200103D2 #1-385 Acq: 4-JAN-2020 00:25:25 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#13 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:1903655-06@10X PDI-035SC-A-00-01-191010 1:10 10.0117 Exp:OCDDF  
 373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

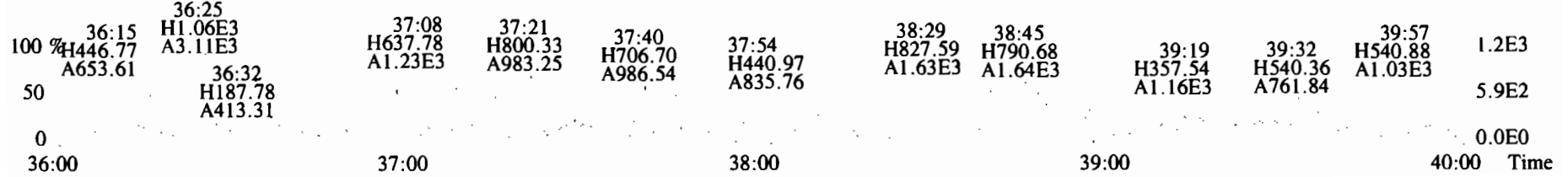
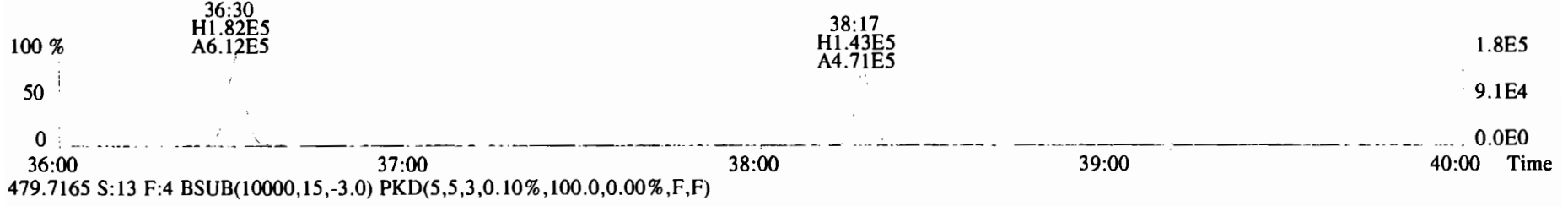
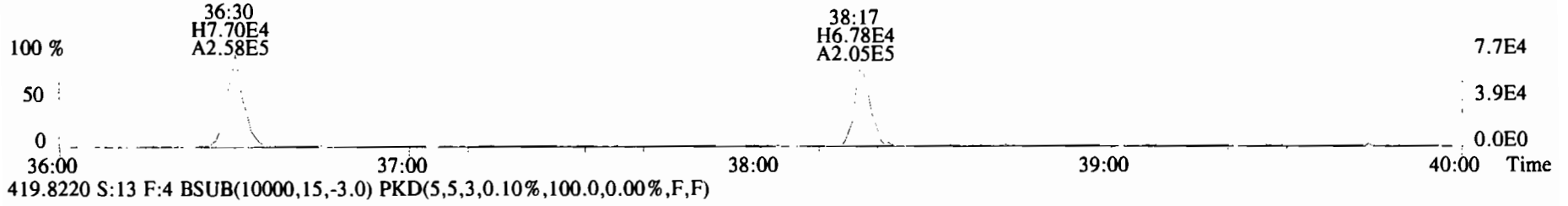
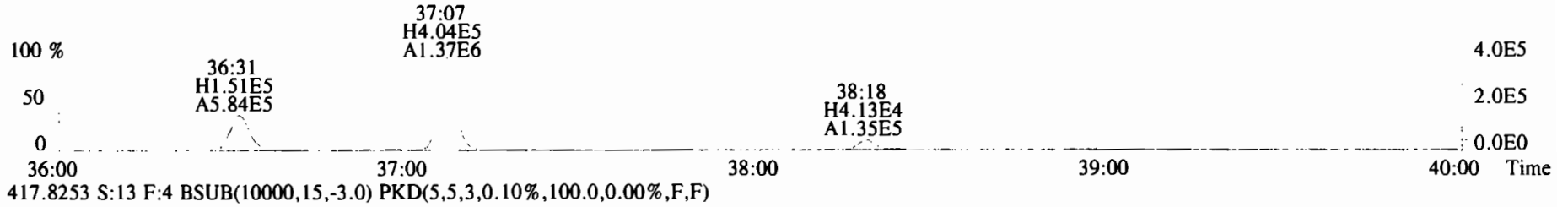
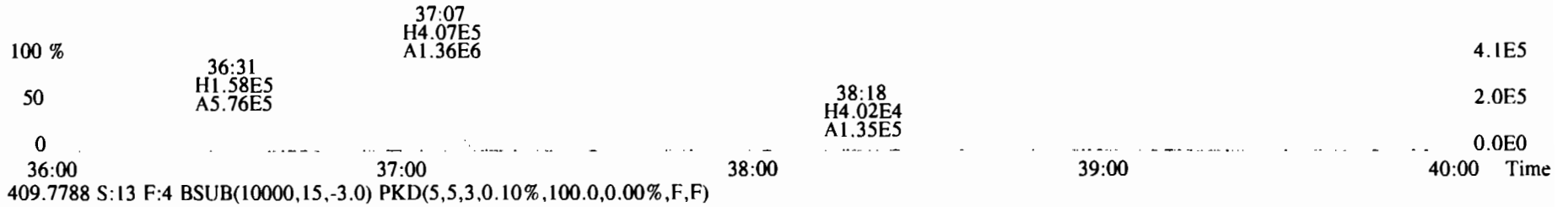




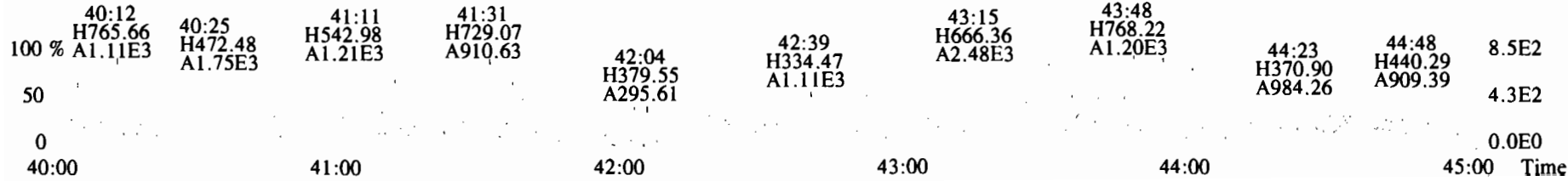
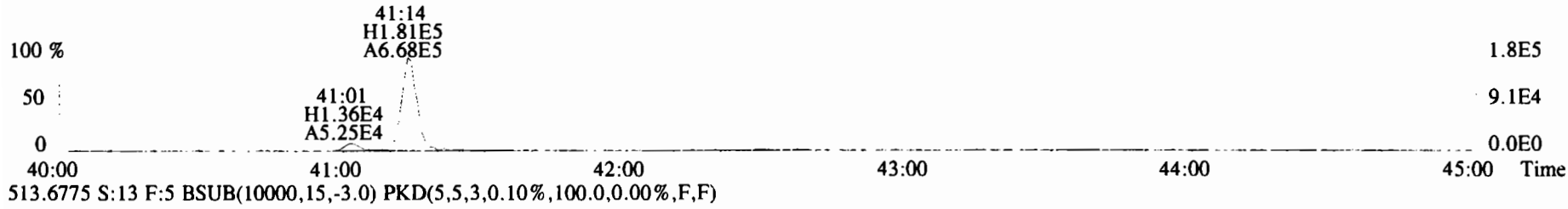
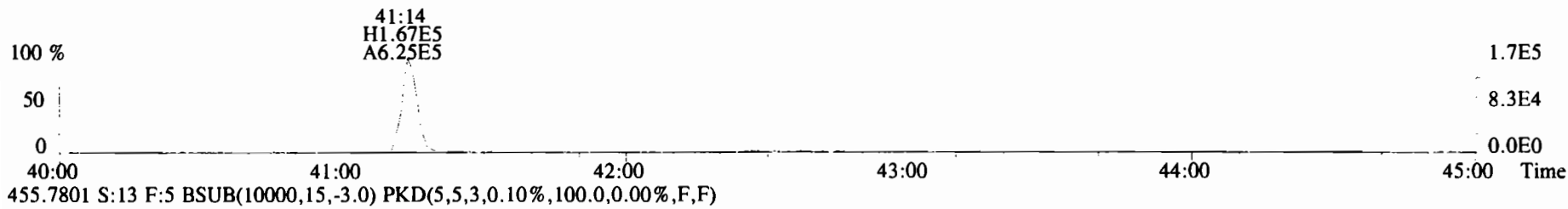
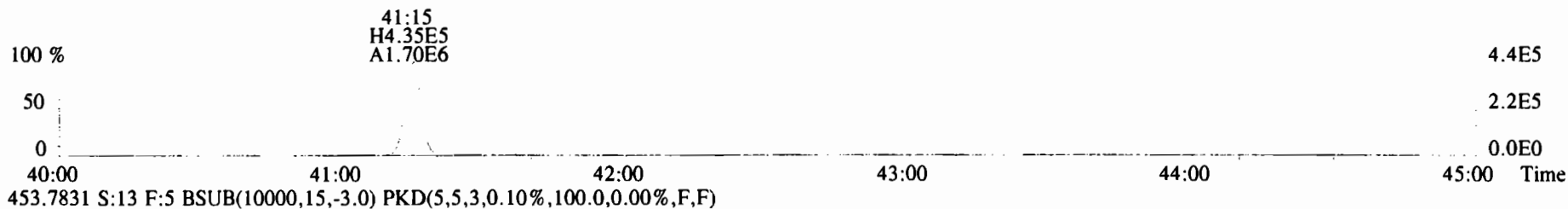
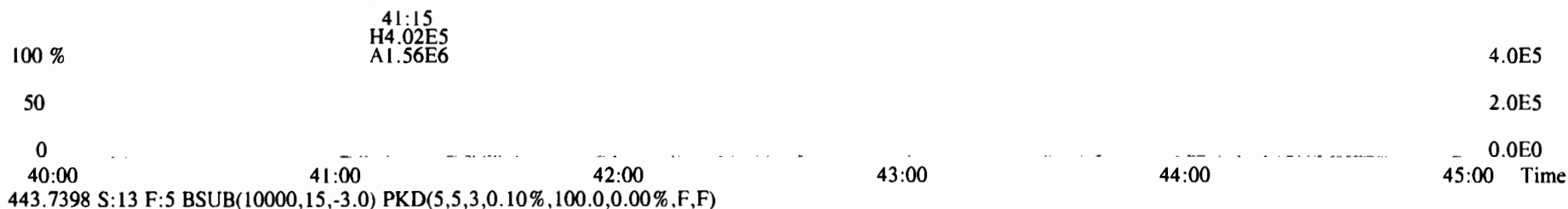
File:200103D2 #1-385 Acq: 4-JAN-2020 00:25:25 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#13 File Text:Vista Analytical Laboratory VG7 Text:1903655-06@10X PDI-035SC-A-00-01-191010 1:10 10.0117 Exp:OCDDF  
 383.8639 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:200103D2 #1-355 Acq: 4-JAN-2020 00:25:25 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#13 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:1903655-06@10X PDI-035SC-A-00-01-191010 1:10 10.0117 Exp:OCDDF  
 407.7818 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:200103D2 #1-432 Acq: 4-JAN-2020 00:25:25 GC EI+ Voltage SIR Autospec-UltimaF  
 Sample#13 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:1903655-06@10X PDI-035SC-A-00-01-191010 1:10 10.0117 Exp:OCDD£  
 441.7428 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Dataset: U:\VG11.PRO\Results\191217K3\191217K3-8.qld

Last Altered: Tuesday, December 24, 2019 11:46:40 AM Pacific Standard Time  
Printed: Tuesday, December 24, 2019 11:47:02 AM Pacific Standard Time

*HL 12.24.19*

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57  
Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

*MW  
11080*

Name: 191217K3\_8, Date: 18-Dec-2019, Time: 07:44:36, ID: 1903655-07 PDI-035SC-A-11-12-191010 11.88, Description: PDI-035SC-A-11-12-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.925	10.000	26.184		1.001				0.146	
2	2 1,2,3,7,8-PeCDD			NO	0.905	10.000	31.311		1.001				0.119	
3	3 1,2,3,4,7,8-HxCDD			NO	1.07	10.000	34.668		1.000				0.140	
4	4 1,2,3,6,7,8-HxCDD			NO	0.967	10.000	34.757		1.000				0.135	
5	5 1,2,3,7,8,9-HxCDD			NO	0.978	10.000	35.066		1.001				0.148	
6	6 1,2,3,4,6,7,8-HpCDD	1.29e3	1.05	NO	1.04	10.000	38.566	38.56	1.000	1.000	0.94517		0.339	0.945
7	7 OCDD	5.70e3	0.82	NO	0.972	10.000	41.835	41.85	1.000	1.000	6.6182		0.481	6.62
8	8 2,3,7,8-TCDF			NO	0.938	10.000	25.199		1.001				0.136	
9	9 1,2,3,7,8-PeCDF			NO	0.976	10.000	30.002		1.001				0.0721	
10	10 2,3,4,7,8-PeCDF			NO	1.00	10.000	31.018		1.001				0.0700	
11	11 1,2,3,4,7,8-HxCDF			NO	1.24	10.000	33.780		1.000				0.0525	
12	12 1,2,3,6,7,8-HxCDF			NO	1.10	10.000	33.911		1.000				0.0517	
13	13 2,3,4,6,7,8-HxCDF			NO	1.18	10.000	34.516		1.001				0.0552	
14	14 1,2,3,7,8,9-HxCDF			NO	1.07	10.000	35.371		1.000				0.0803	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.13	10.000	37.153		1.001				0.0551	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.26	10.000	39.168		1.000				0.0786	
17	17 OCDF			NO	1.10	10.000	42.021		1.000				0.159	
18	18 13C-2,3,7,8-TCDD	4.24e5	0.76	NO	1.05	10.000	26.146	26.15	1.027	1.028	208.11	104	0.749	
19	19 13C-1,2,3,7,8-PeCDD	3.99e5	0.62	NO	0.743	10.000	31.290	31.29	1.230	1.229	276.16	138	0.603	
20	20 13C-1,2,3,4,7,8-HxCDD	2.62e5	1.21	NO	0.646	10.000	34.647	34.66	1.014	1.014	156.99	78.5	0.761	
21	21 13C-1,2,3,6,7,8-HxCDD	3.58e5	1.21	NO	0.777	10.000	34.746	34.76	1.017	1.017	178.12	89.1	0.633	
22	22 13C-1,2,3,7,8,9-HxCDD	3.25e5	1.29	NO	0.659	10.000	35.019	35.03	1.025	1.025	190.70	95.3	0.746	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.64e5	1.06	NO	0.534	10.000	38.519	38.55	1.127	1.128	191.08	95.5	0.810	
24	24 13C-OCDD	3.55e5	0.88	NO	0.470	10.000	41.799	41.83	1.223	1.224	291.47	72.9	1.11	
25	25 13C-2,3,7,8-TCDF	5.69e5	0.72	NO	0.977	10.000	25.159	25.17	0.989	0.989	179.74	89.9	0.763	
26	26 13C-1,2,3,7,8-PeCDF	5.67e5	1.51	NO	0.778	10.000	29.979	29.98	1.178	1.178	225.27	113	1.05	
27	27 13C-2,3,4,7,8-PeCDF	5.77e5	1.50	NO	0.750	10.000	30.969	30.99	1.217	1.218	237.82	119	1.09	
28	28 13C-1,2,3,4,7,8-HxCDF	4.38e5	0.52	NO	0.845	10.000	33.785	33.78	0.989	0.988	200.36	100	1.01	
29	29 13C-1,2,3,6,7,8-HxCDF	5.27e5	0.54	NO	1.03	10.000	33.902	33.90	0.992	0.992	198.45	99.2	0.834	
30	30 13C-2,3,4,6,7,8-HxCDF	4.45e5	0.53	NO	0.893	10.000	34.476	34.48	1.009	1.009	192.75	96.4	0.959	
31	31 13C-1,2,3,7,8,9-HxCDF	4.15e5	0.51	NO	0.734	10.000	35.378	35.37	1.035	1.035	218.45	109	1.17	

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-8.qld

Last Altered: Tuesday, December 24, 2019 11:46:40 AM Pacific Standard Time  
Printed: Tuesday, December 24, 2019 11:47:02 AM Pacific Standard Time

Name: 191217K3\_8, Date: 18-Dec-2019, Time: 07:44:36, ID: 1903655-07 PDI-035SC-A-11-12-191010 11.88, Description: PDI-035SC-A-11-12-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.70e5	0.46	NO	0.754	10.000	37.094	37.12	1.085	1.086	189.76	94.9	0.778	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.49e5	0.43	NO	0.539	10.000	39.120	39.17	1.145	1.146	178.54	89.3	1.09	
34	34 13C-OCDF	5.73e5	0.90	NO	0.593	10.000	41.987	42.02	1.229	1.230	374.10	93.5	1.18	
35	35 37Cl-2,3,7,8-TCDD	1.87e5			1.07	10.000	26.167	26.17	1.028	1.028	90.147	113	0.261	
36	36 13C-1,2,3,4-TCDD	3.89e5	0.78	NO	1.00	10.000	25.450	25.45	1.000	1.000	200.00	100	0.785	
37	37 13C-1,2,3,4-TCDF	6.48e5	0.74	NO	1.00	10.000	23.550	23.57	1.000	1.000	200.00	100	0.746	
38	38 13C-1,2,3,4,6,9-HxCDF	5.17e5	0.53	NO	1.00	10.000	34.160	34.17	1.000	1.000	200.00	100	0.856	
39	39 Total Tetra-Dioxins				0.925	10.000	24.620		0.000				0.0890	
40	40 Total Penta-Dioxins				0.905	10.000	29.960		0.000		0.00000		0.0460	0.190
41	41 Total Hexa-Dioxins				0.967	10.000	33.635		0.000		0.32529		0.146	0.325
42	42 Total Hepta-Dioxins				1.04	10.000	38.800		0.000		2.3962		0.339	2.40
43	43 Total Tetra-Furans				0.938	10.000	23.610		0.000				0.0775	
44	44 1st Func. Penta-Furans				0.976	10.000	27.040		0.000				0.0192	
45	45 Total Penta-Furans				0.976	10.000	29.275		0.000				0.0393	
46	46 Total Hexa-Furans				1.18	10.000	33.555		0.000				0.0306	
47	47 Total Hepta-Furans				1.13	10.000	37.835		0.000		0.00000		0.0367	0.110

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-8.qld

Last Altered: Tuesday, December 24, 2019 11:46:40 AM Pacific Standard Time

Printed: Tuesday, December 24, 2019 11:47:02 AM Pacific Standard Time

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Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_8, Date: 18-Dec-2019, Time: 07:44:36, ID: 1903655-07 PDI-035SC-A-11-12-191010 11.88, Description: PDI-035SC-A-11-12-191010

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Penta-Dioxins	30.97	7.811e3	2.817e3	5.182e2	2.106e2	2.46	YES	0.000e0	0.00000	0.19035	0.119

**Hexa-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hexa-Dioxins	33.19	4.760e3	5.353e3	2.547e2	2.411e2	1.06	NO	4.958e2	0.32529	0.32529	0.146

**Hepta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hepta-Dioxins	37.52	1.596e4	1.299e4	1.078e3	9.089e2	1.19	NO	1.987e3	1.4510	1.4510	0.339
2 1,2,3,4,6,7,8-HpCDD	38.56	1.128e4	8.303e3	6.627e2	6.314e2	1.05	NO	1.294e3	0.94517	0.94517	0.339

**Tetra-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Furans function 1**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-8.qld

Last Altered: Tuesday, December 24, 2019 11:46:40 AM Pacific Standard Time

Printed: Tuesday, December 24, 2019 11:47:02 AM Pacific Standard Time

Name: 191217K3\_8, Date: 18-Dec-2019, Time: 07:44:36, ID: 1903655-07 PDI-035SC-A-11-12-191010 11.88, Description: PDI-035SC-A-11-12-191010

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	Total Hepta-Furans	37.73	3.157e3	2.423e3	1.140e2	9.427e1	1.21	YES	0.000e0	0.00000	0.11000	0.0367

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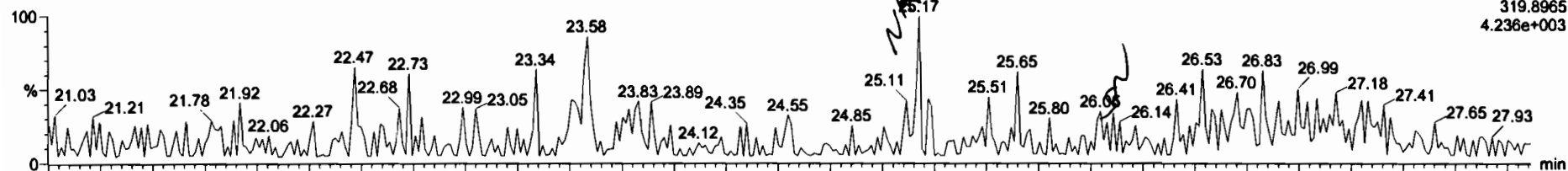
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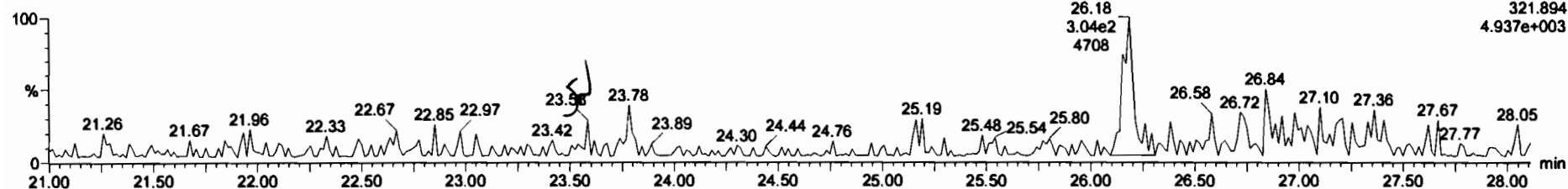
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**2,3,7,8-TCDD**

191217K3\_8

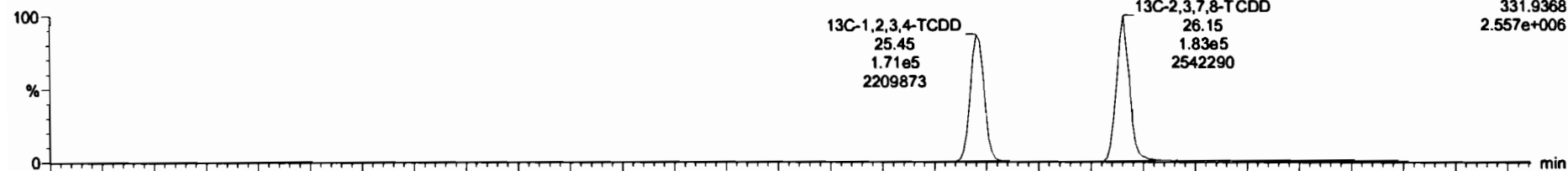


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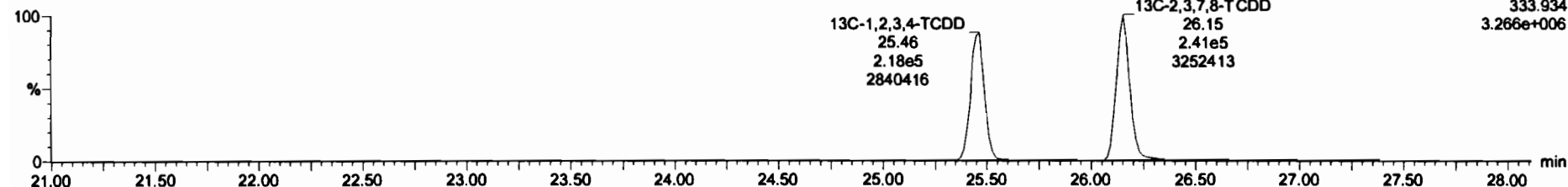


**13C-2,3,7,8-TCDD**

191217K3\_8



191217K3\_8





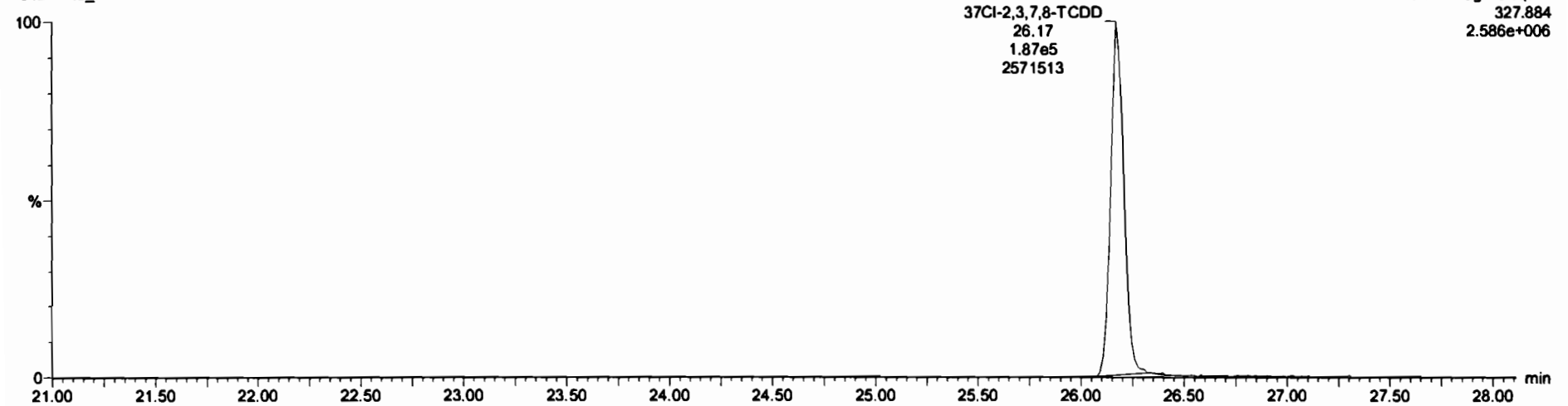
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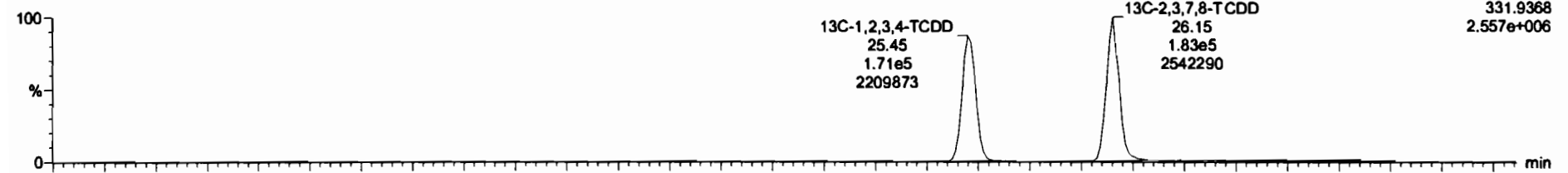
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191217K3\_8

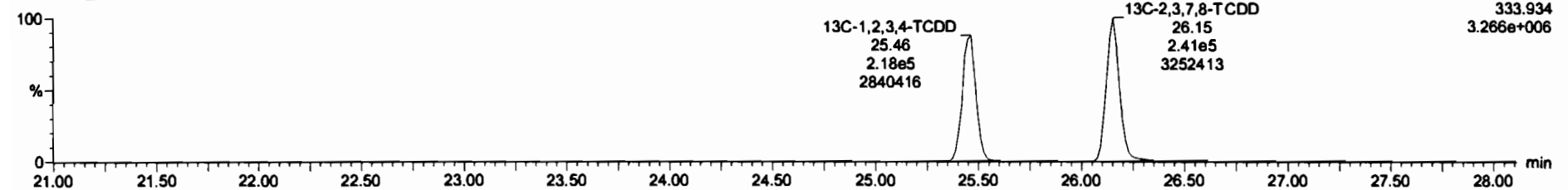


13C-1,2,3,4-TCDD

191217K3\_8



191217K3\_8



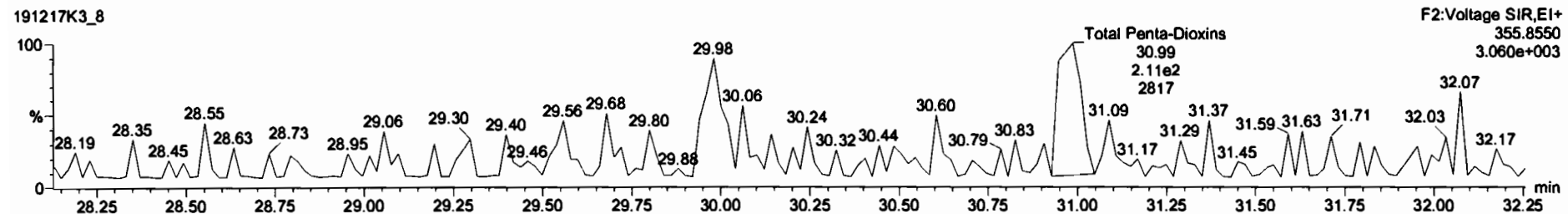
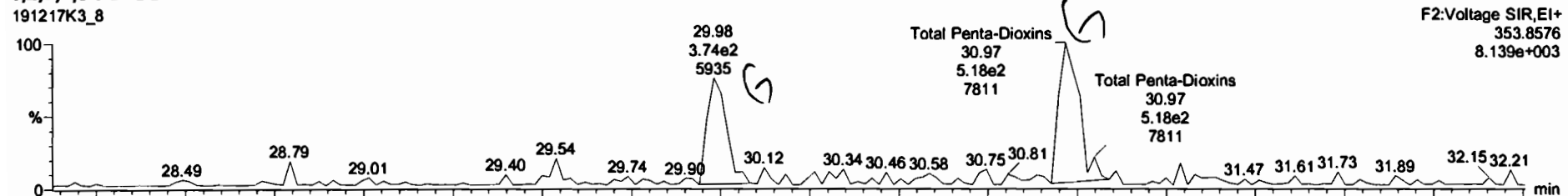
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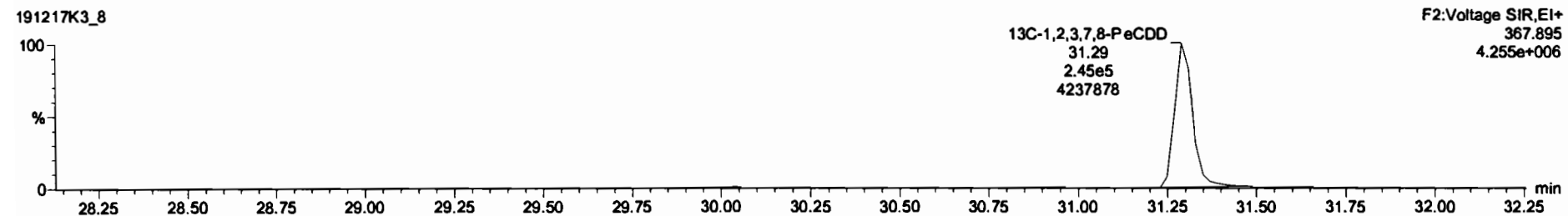
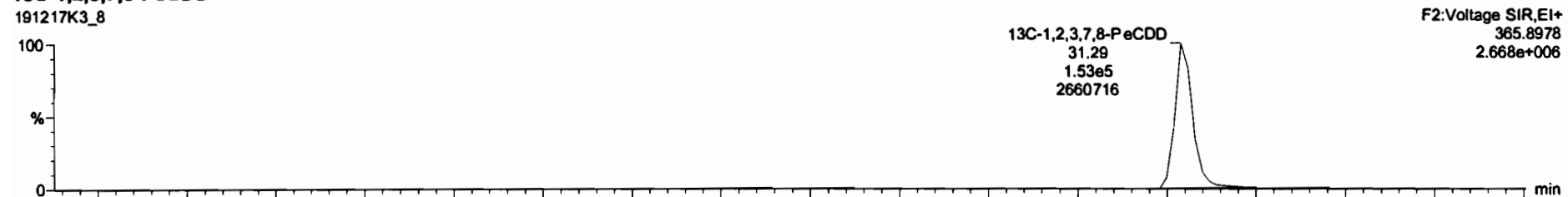
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1,2,3,7,8-PeCDD



13C-1,2,3,7,8-PeCDD



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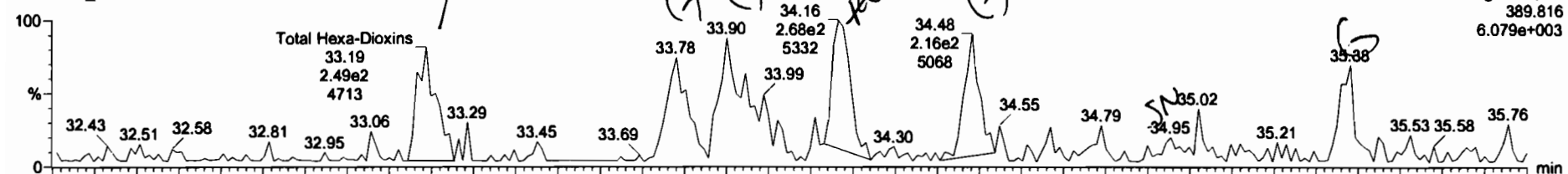
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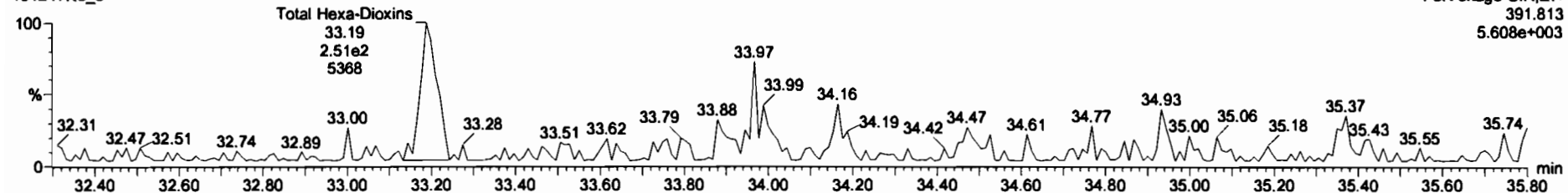
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### 1,2,3,4,7,8-HxCDD

191217K3\_8

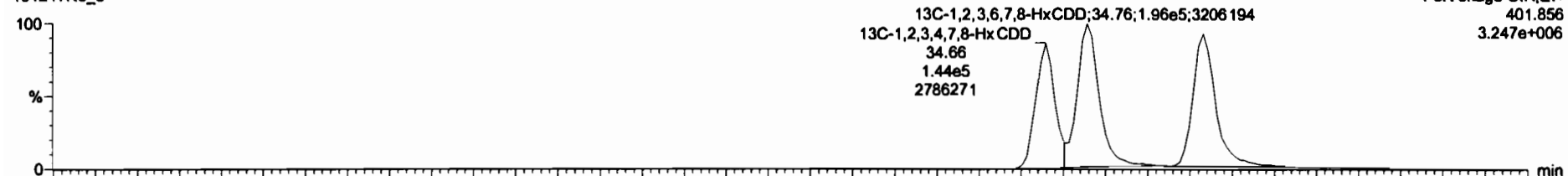


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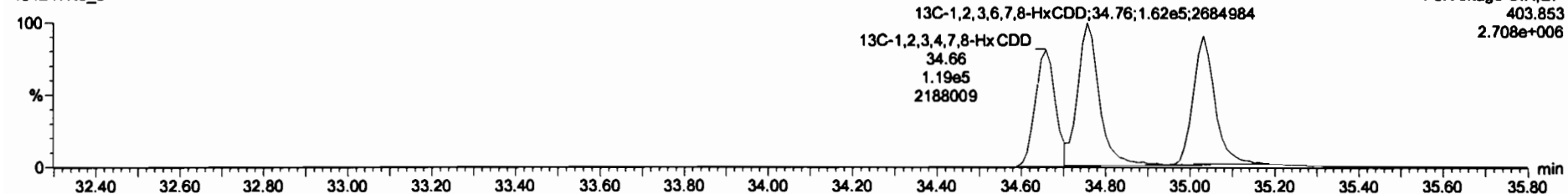


### 13C-1,2,3,4,7,8-HxCDD

191217K3\_8



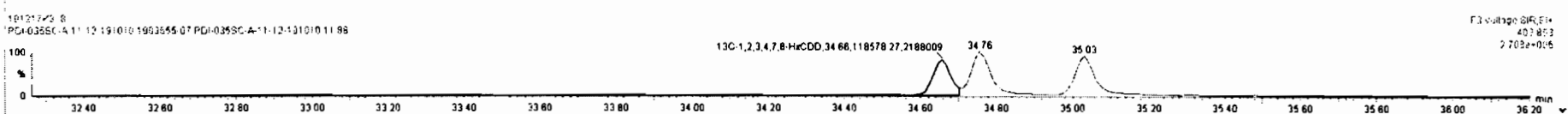
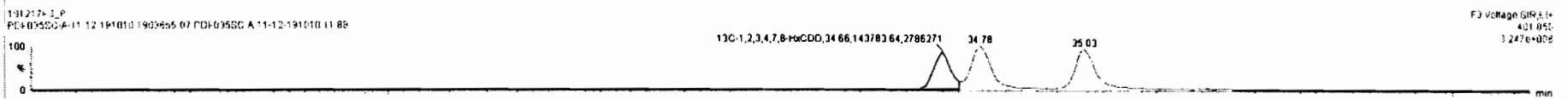
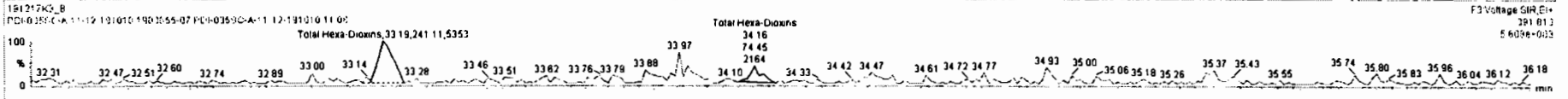
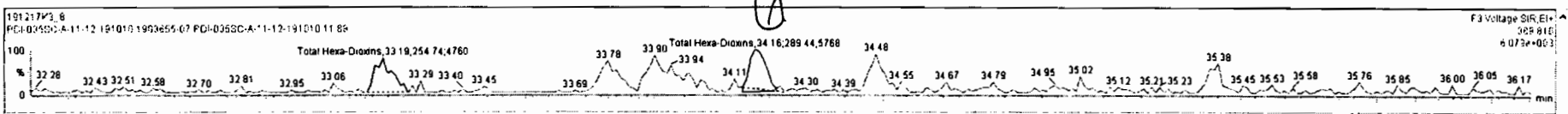
191217K3\_8



191217K3.B.qld\* (Chromatogram)

Name	Resp	RA	nly	RWF	wtAval	RT	RRT	Conc.	%Rec	DL	EMPC
27	13C-2,3,4,7,8-PeCDF	5.77e5	1.50	NO	0.7499	10.000	30.99	1.218	238	119	1.05
28	13C-1,2,3,4,7,8-HxCDF	4.38e5	0.52	NO	0.8452	10.000	33.78	0.988	200	100	1.01
29	13C-1,2,3,6,7,8-HxCDF	5.27e5	0.54	NO	1.0267	10.000	33.90	0.992	198	99.2	0.834
30	13C-2,3,4,6,7,8-HxCDF	4.45e5	0.53	NO	0.8929	10.000	34.48	1.009	193	96.4	0.959
31	13C-1,2,3,7,8,9-HxCDF	4.15e5	0.51	NO	0.7343	10.000	35.37	1.035	218	109	1.17
32	13C-1,2,3,4,6,7,8-HxCDF	3.70e5	0.46	NO	0.7542	10.000	37.12	1.086	190	94.9	0.778
33	13C-1,2,3,4,7,8,9-HxCDF	2.49e5	0.43	NO	0.5390	10.000	39.17	1.146	179	89.3	1.09
34	13C-OCDF	5.73e5	0.90	NO	0.5925	10.000	42.02	1.230	374	93.5	1.18
35	37Cl-2,3,7,8-TCDD	1.87e5			1.0895	10.000	26.17	1.028	90.1	113	0.261
36	13C-1,2,3,4-TCDF	3.89e5	0.78	NO	1.0000	10.000	25.45	1.000	200	100	0.785
37	13C-1,2,3,4-TCDF	6.48e5	0.74	NO	1.0000	10.000	23.57	1.000	200	100	0.746
38	13C-1,2,3,4,6,8-HxCDF	5.17e5	0.53	NO	1.0000	10.000	34.17	1.000	200	100	0.856

Name	RT	wt Resp	m2 Resp	RA	nly	EMPC	Conc	
1	Total Hexa-Dioxins	33.19	2.547e2	2.411e2	1.06	NO	0.32529	0.32529
2	Total Hexa-Dioxins	34.16	2.894e2	7.445e1	3.89	YES	0.10940	0.00000

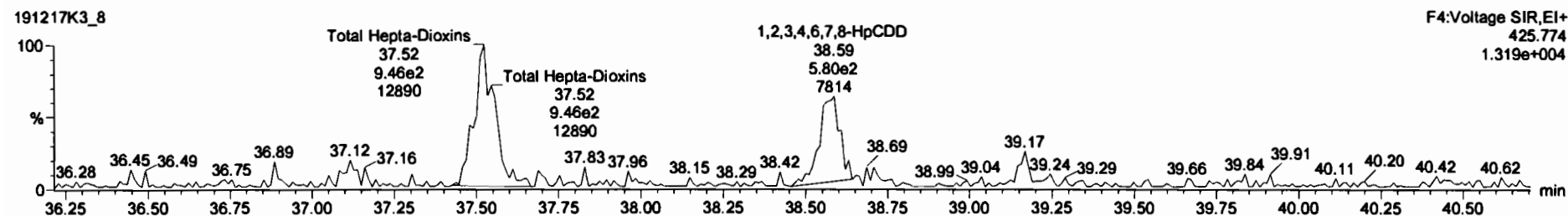
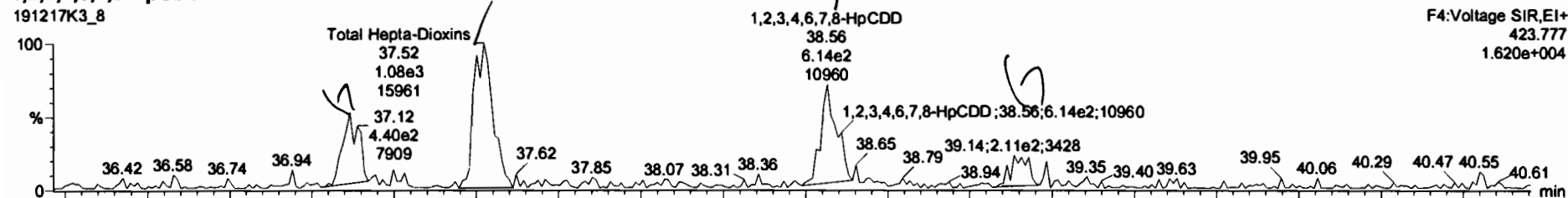


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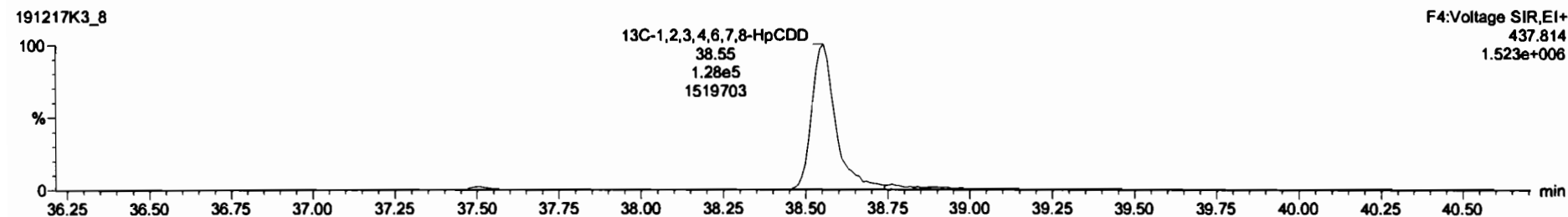
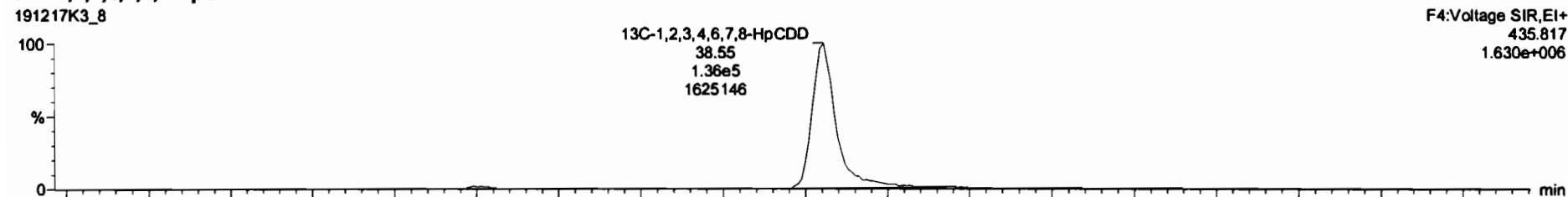
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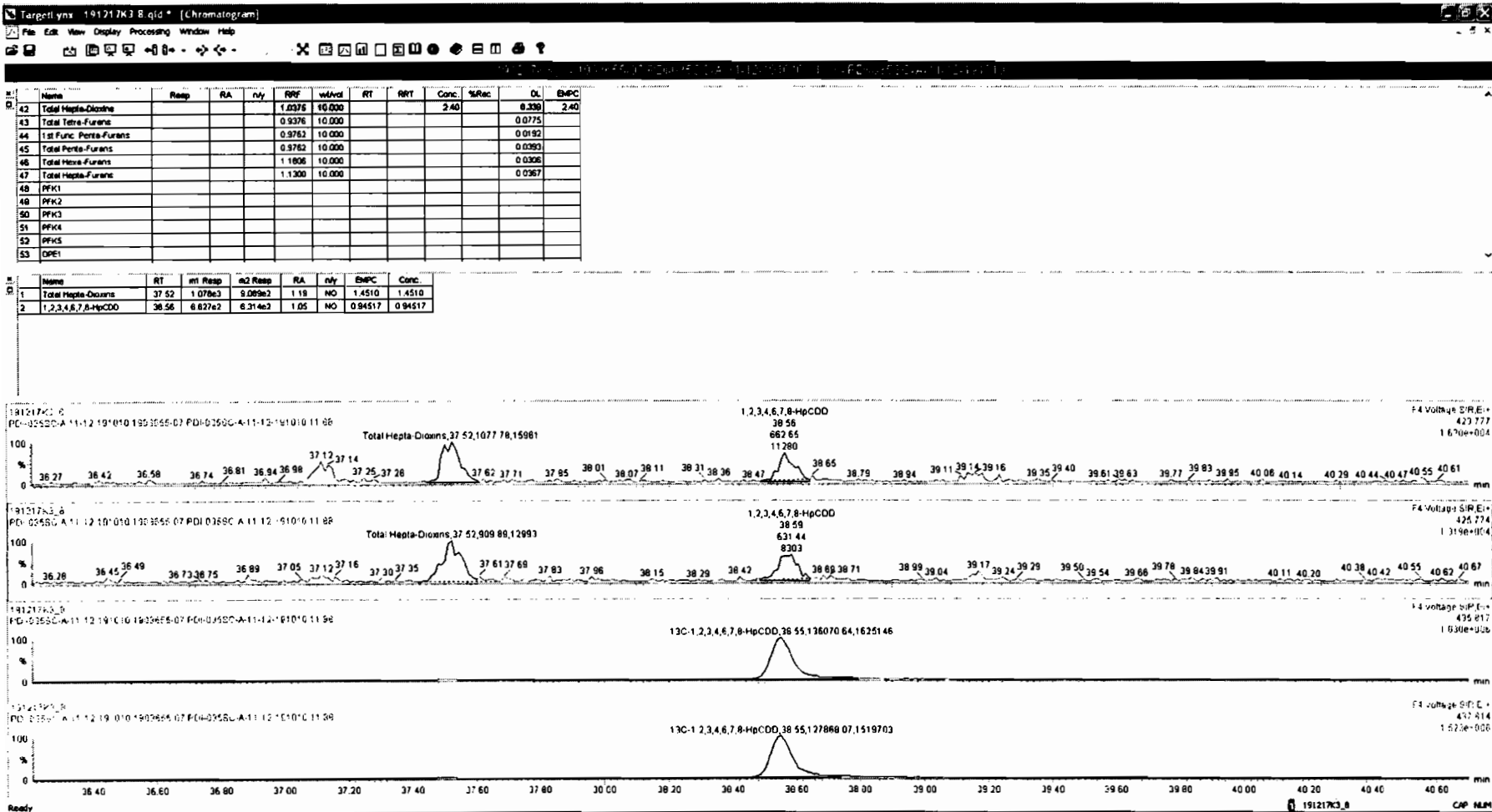
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1,2,3,4,6,7,8-HpCDD



13C-1,2,3,4,6,7,8-HpCDD



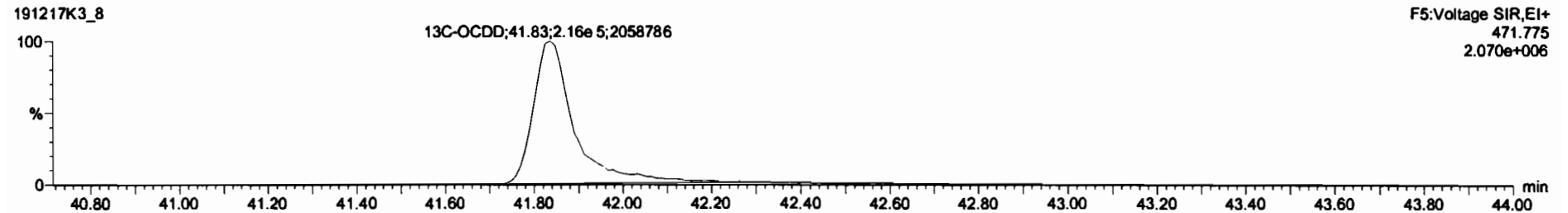
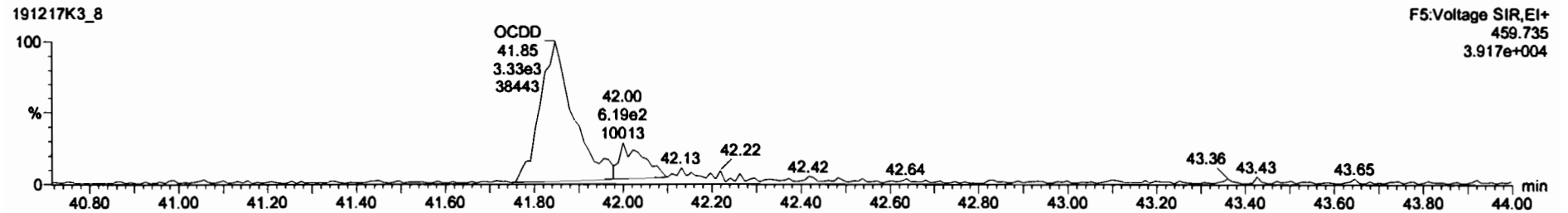
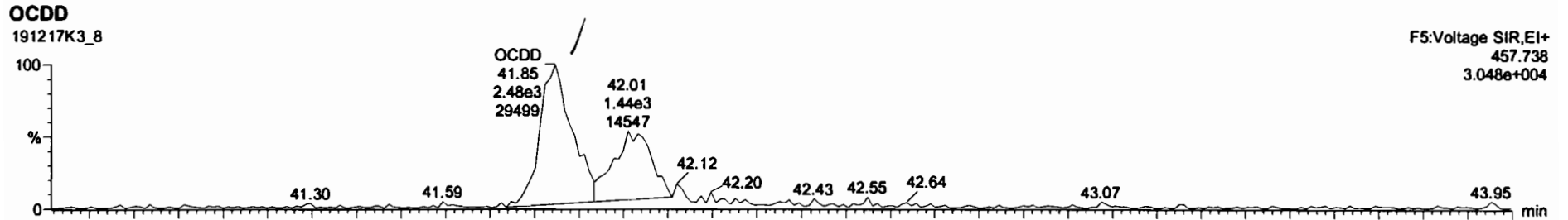


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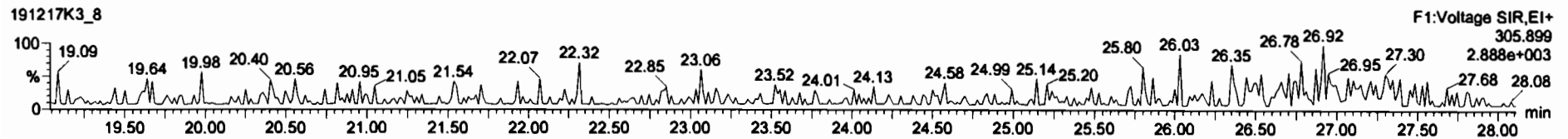
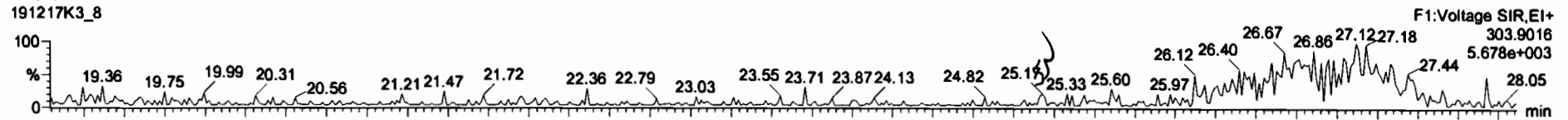


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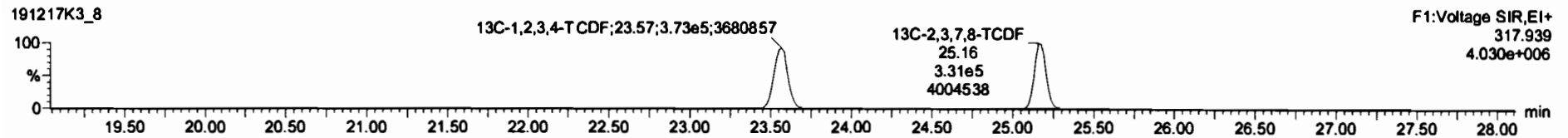
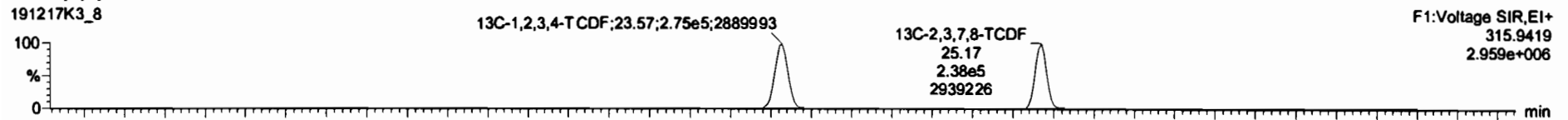
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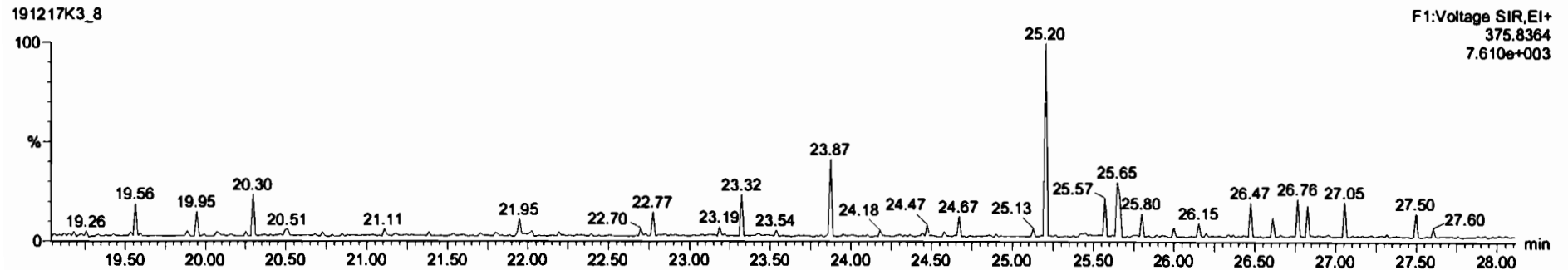
**2,3,7,8-TCDF**



**13C-2,3,7,8-TCDF**



**DPE1**



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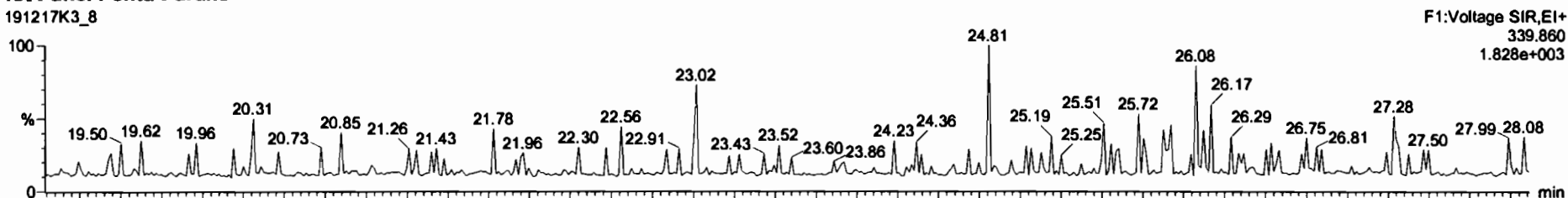
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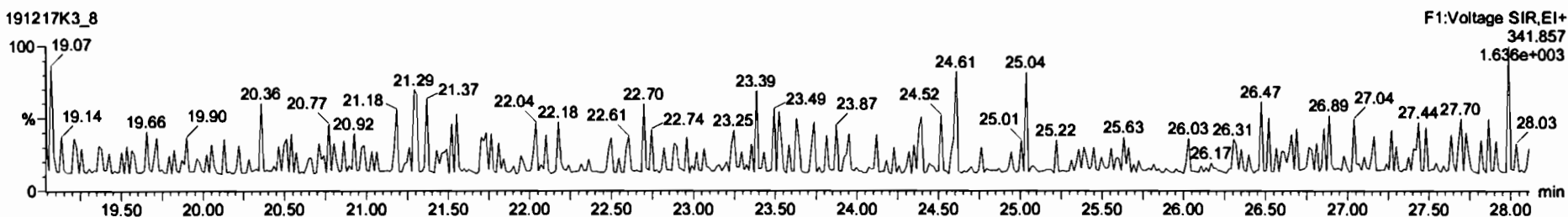
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1st Func. Penta-Furans

191217K3\_8

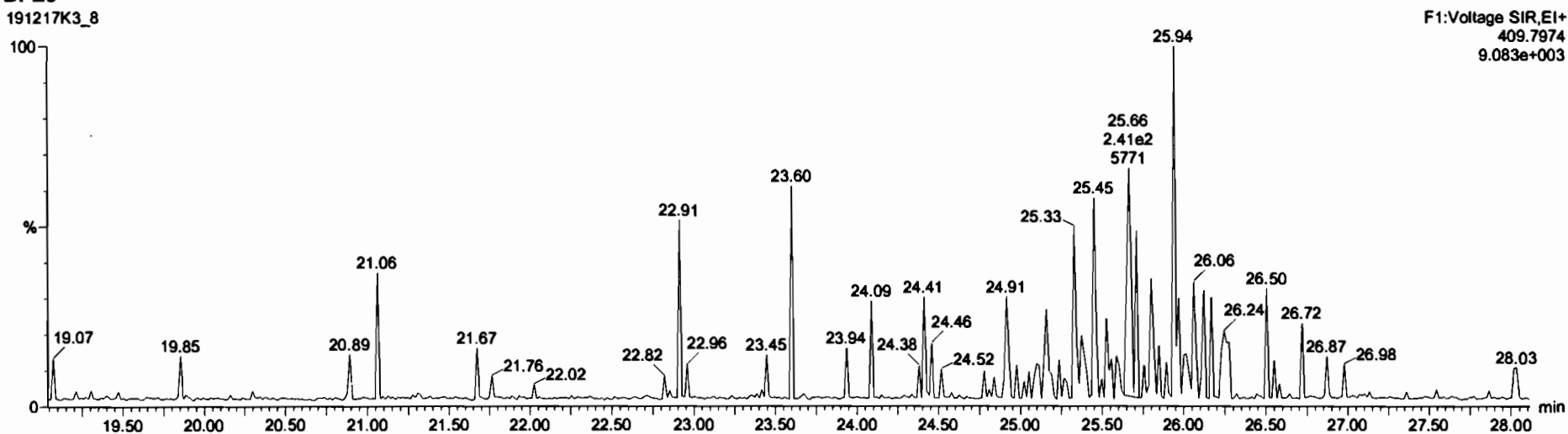


191217K3\_8



DPE6

191217K3\_8



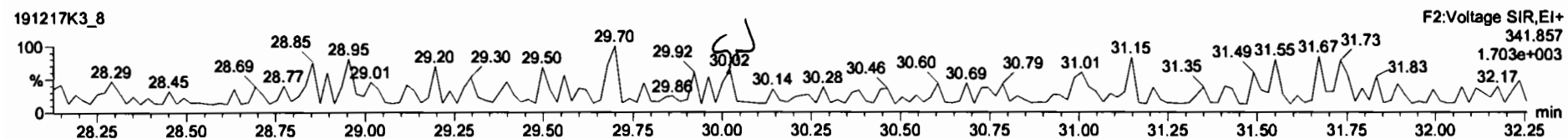
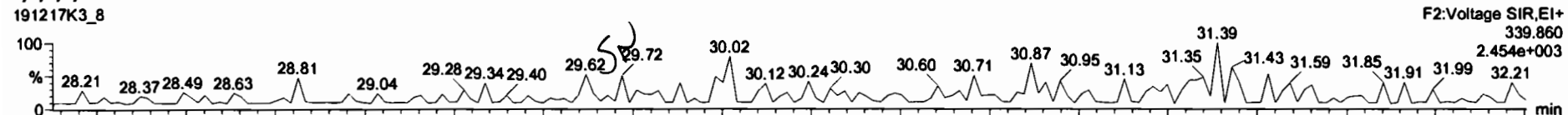
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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

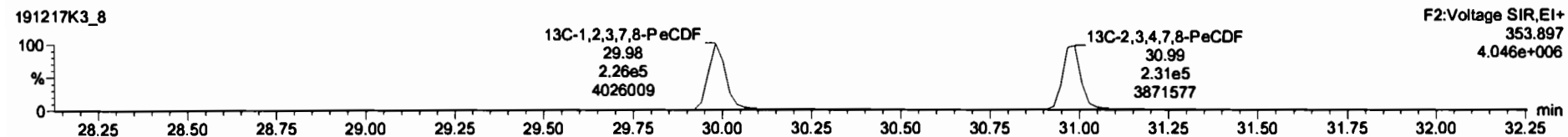
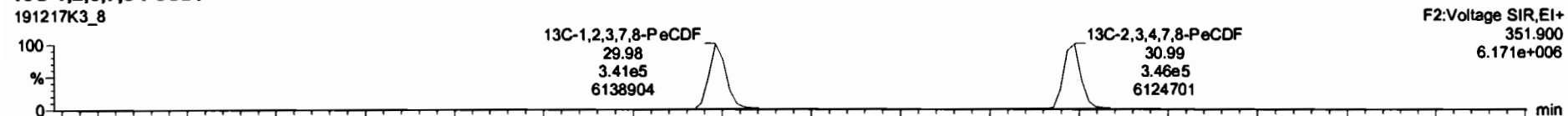
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_8, Date: 18-Dec-2019, Time: 07:44:36, ID: 1903655-07 PDI-035SC-A-11-12-191010 11.88, Description: PDI-035SC-A-11-12-191010

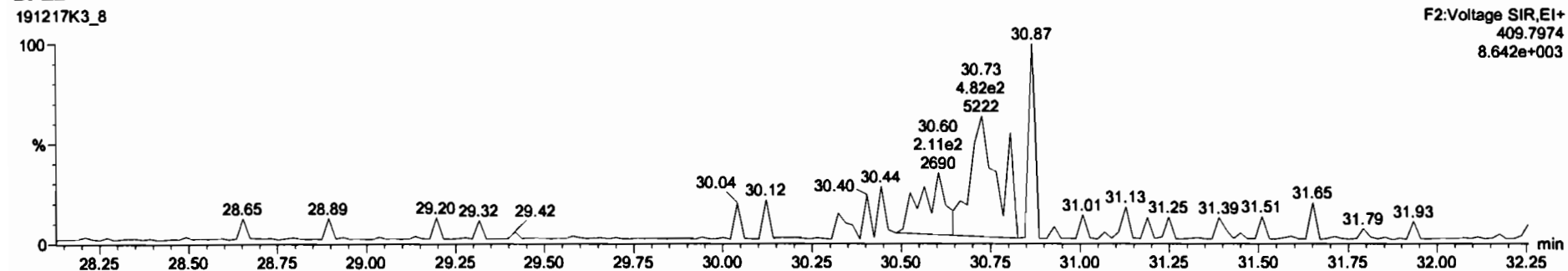
**1,2,3,7,8-PeCDF**



**13C-1,2,3,7,8-PeCDF**



**DPE2**



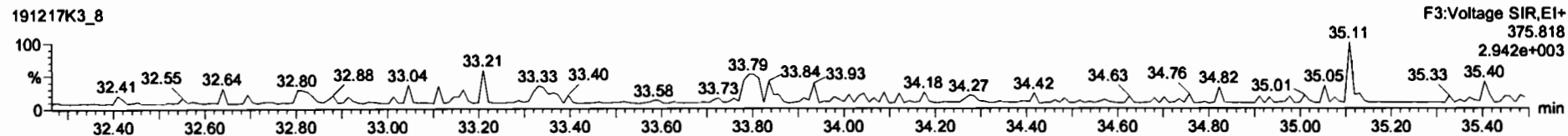
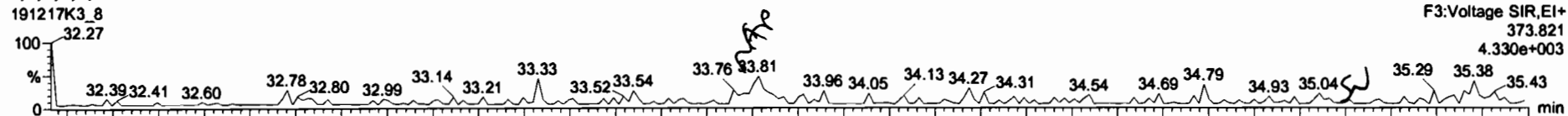
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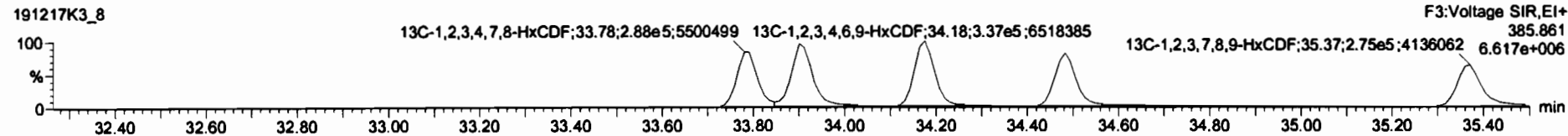
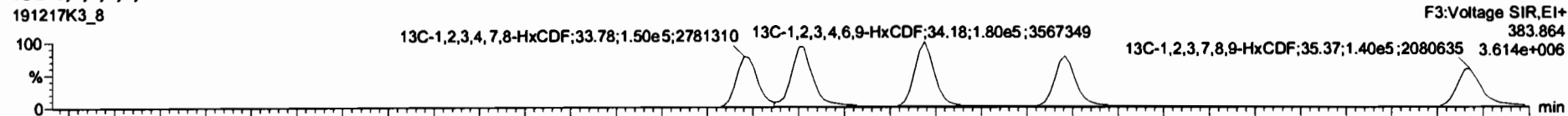
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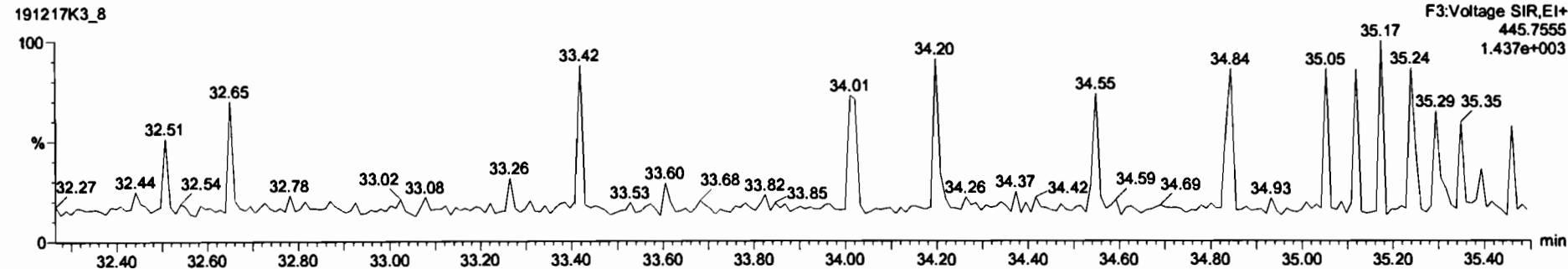
**1,2,3,4,7,8-HxCDF**



**13C-1,2,3,4,7,8-HxCDF**



**DPE3**

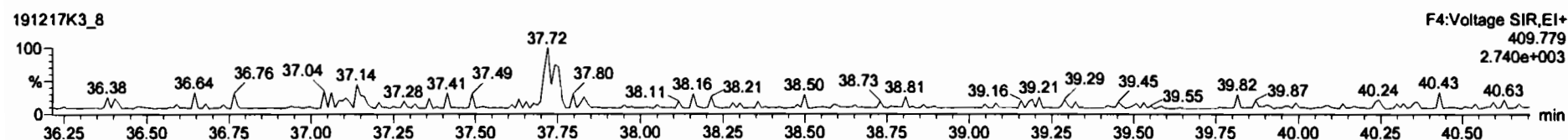
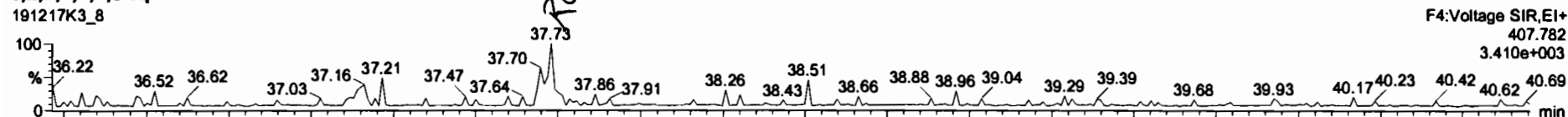


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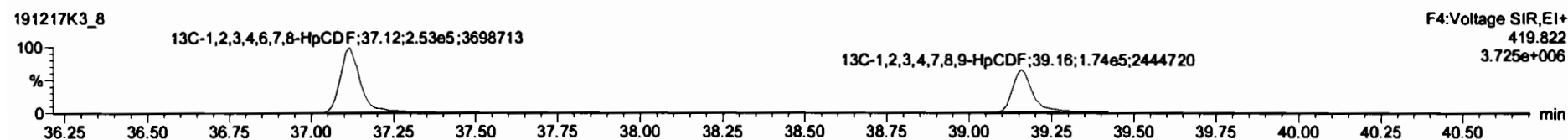
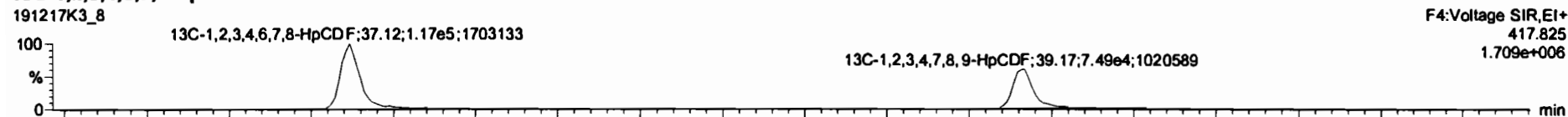
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_8, Date: 18-Dec-2019, Time: 07:44:36, ID: 1903655-07 PDI-035SC-A-11-12-191010 11.88, Description: PDI-035SC-A-11-12-191010

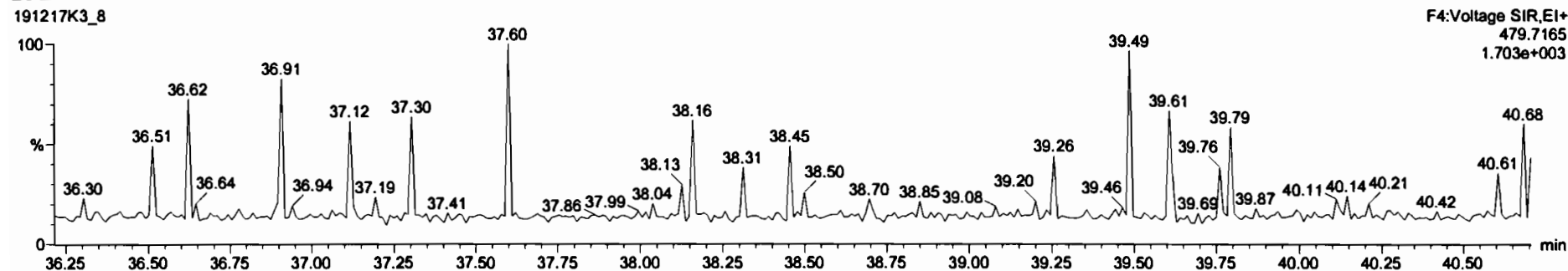
**1,2,3,4,6,7,8-HpCDF**



**13C-1,2,3,4,6,7,8-HpCDF**

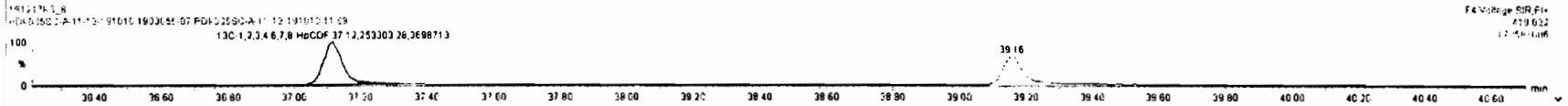
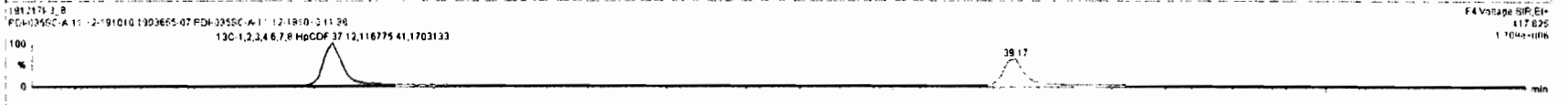
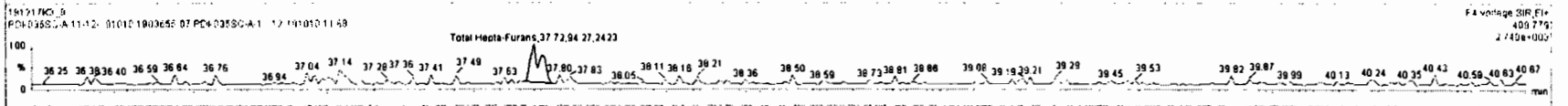
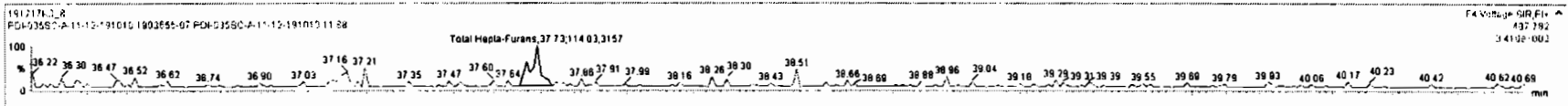


**DPE4**



Name	Resp	RA	rv	RPF	wt/vol	RT	RRT	Conc.	%Rec	DL	BPIC
44 1st Func. Penta-Furans				0.9762	10.000					0.0192	
45 Total Penta-Furans				0.9762	10.000					0.0393	
46 Total Hexa-Furans				1.1806	10.000					0.0306	
47 Total Hepta-Furans				1.1300	10.000			0.000		0.0287	0.110
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 OPE1											
54 OPE2											
55 OPE3											

Name	RT	ret Resp	m2 Resp	RA	rv	BPIC	Conc.
1 Total Hepta-Furans	37.73	1.140e2	9.427e1	1.21	YES	0.11000	0.00000

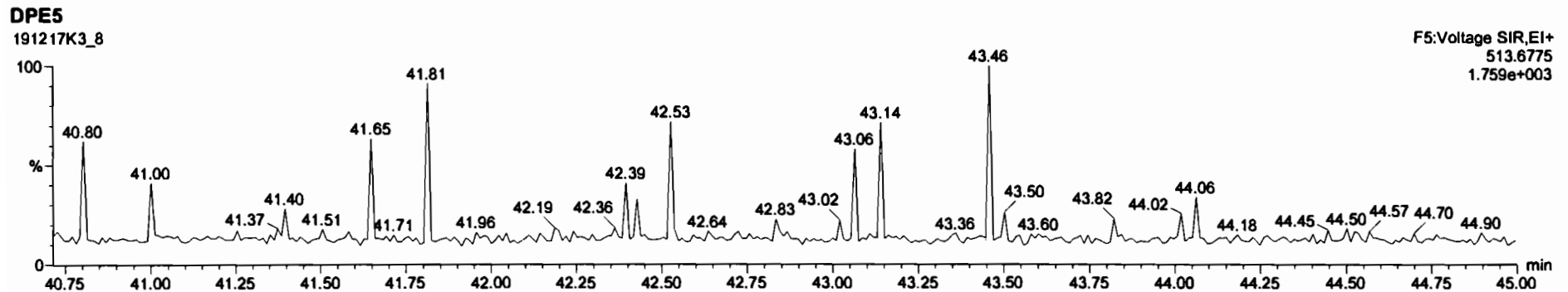
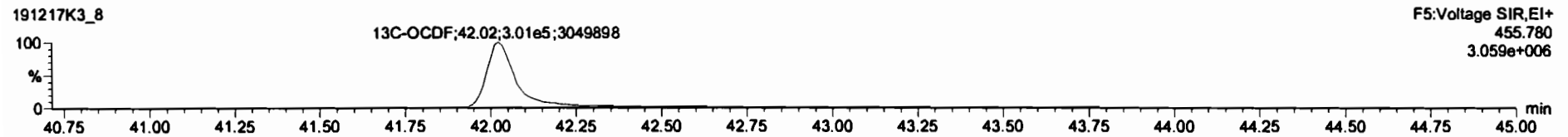
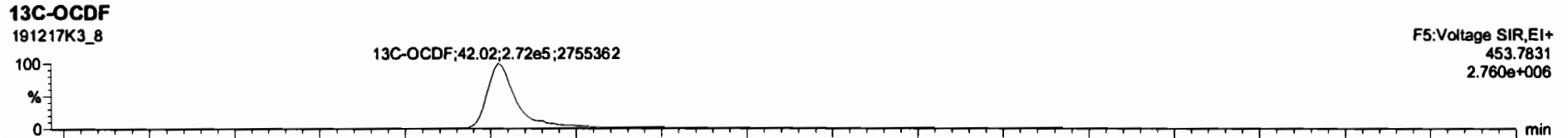
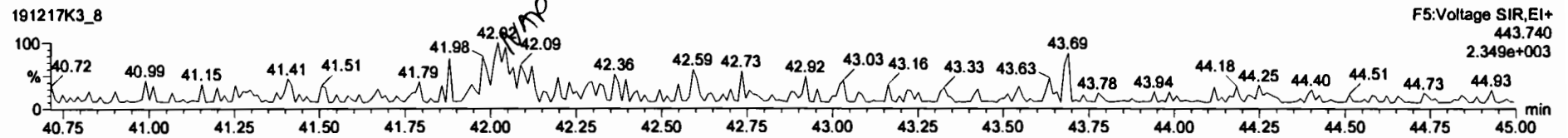
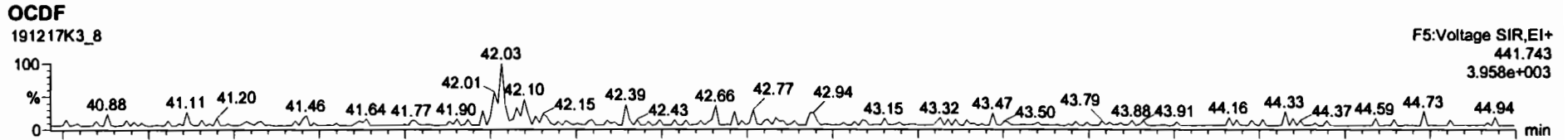


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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_8, Date: 18-Dec-2019, Time: 07:44:36, ID: 1903655-07 PDI-035SC-A-11-12-191010 11.88, Description: PDI-035SC-A-11-12-191010

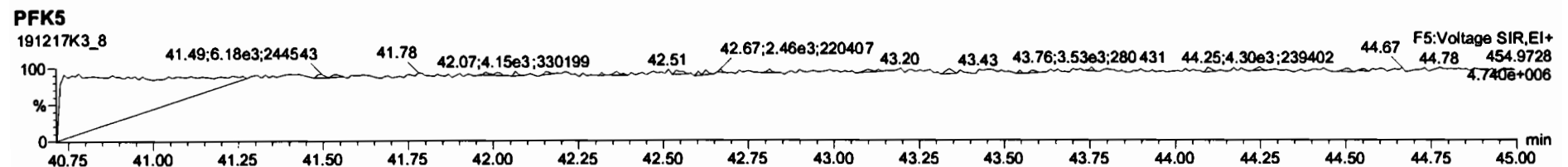
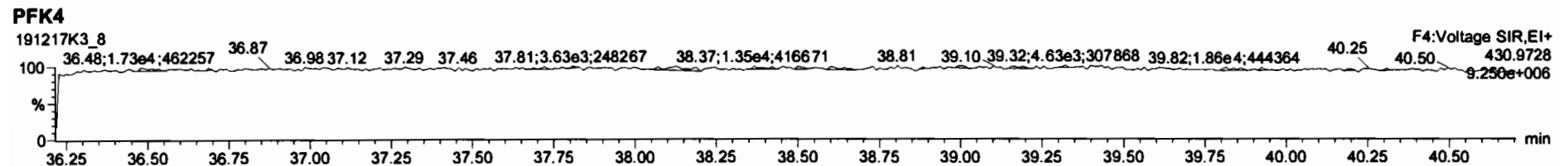
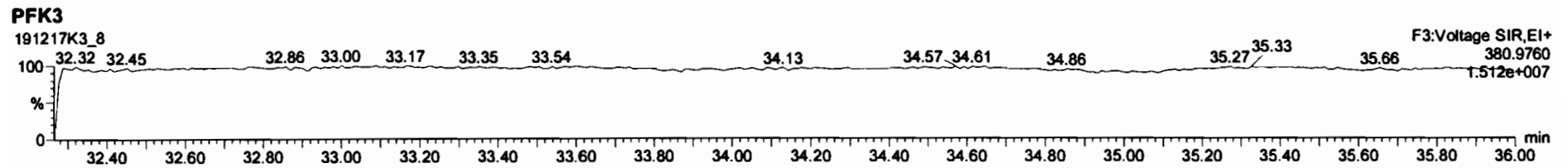
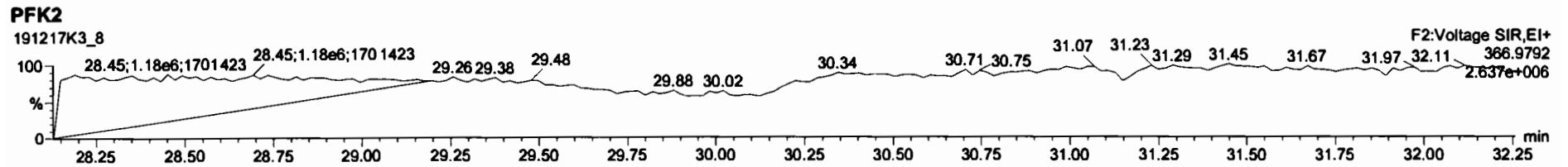
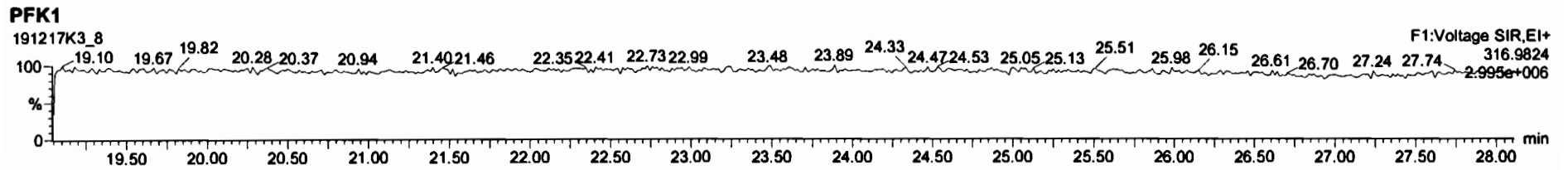


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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_8, Date: 18-Dec-2019, Time: 07:44:36, ID: 1903655-07 PDI-035SC-A-11-12-191010 11.88, Description: PDI-035SC-A-11-12-191010





Dataset: U:\VG11.PRO\Results\191217K3\191217K3-9.qld

Last Altered: Tuesday, December 24, 2019 11:49:23 AM Pacific Standard Time

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*HC 12-24-19*

*MW  
1/16/20*

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\lb5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_9, Date: 18-Dec-2019, Time: 08:32:07, ID: 1903655-08 PDI-035SC-A-12-12.7-191010 13.41, Description: PDI-035SC-A-12-12.7-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.925	10.010	26.199		1.001				0.196	
2	2 1,2,3,7,8-PeCDD			NO	0.905	10.010	31.331		1.001				0.0897	
3	3 1,2,3,4,7,8-HxCDD			NO	1.07	10.010	34.668		1.000				0.138	
4	4 1,2,3,6,7,8-HxCDD			NO	0.967	10.010	34.757		1.000				0.127	
5	5 1,2,3,7,8,9-HxCDD			NO	0.978	10.010	35.066		1.001				0.164	
6	6 1,2,3,4,6,7,8-HpCDD			NO	1.04	10.010	38.566		1.000				0.283	
7	7 OCDD	8.20e2	0.84	NO	0.972	10.010	41.846	41.85	1.000	1.000	1.1847		0.698	1.18
8	8 2,3,7,8-TCDF			NO	0.938	10.010	25.199		1.001				0.0783	
9	9 1,2,3,7,8-PeCDF			NO	0.976	10.010	30.002		1.001				0.0549	
10	10 2,3,4,7,8-PeCDF			NO	1.00	10.010	31.018		1.001				0.0479	
11	11 1,2,3,4,7,8-HxCDF			NO	1.24	10.010	33.791		1.000				0.0487	
12	12 1,2,3,6,7,8-HxCDF			NO	1.10	10.010	33.922		1.000				0.0504	
13	13 2,3,4,6,7,8-HxCDF			NO	1.18	10.010	34.516		1.001				0.0515	
14	14 1,2,3,7,8,9-HxCDF			NO	1.07	10.010	35.371		1.000				0.0732	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.13	10.010	37.153		1.001				0.0465	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.26	10.010	39.168		1.000				0.0699	
17	17 OCDF			NO	1.10	10.010	42.032		1.000				0.146	
18	18 13C-2,3,7,8-TCDD	3.08e5	0.80	NO	1.05	10.010	26.163	26.17	1.027	1.028	157.70	78.9	0.644	
19	19 13C-1,2,3,7,8-PeCDD	2.52e5	0.61	NO	0.743	10.010	31.309	31.31	1.230	1.229	182.32	91.2	0.692	
20	20 13C-1,2,3,4,7,8-HxCDD	1.78e5	1.22	NO	0.646	10.010	34.658	34.66	1.014	1.014	117.37	58.7	0.701	
21	21 13C-1,2,3,6,7,8-HxCDD	2.29e5	1.25	NO	0.777	10.010	34.757	34.76	1.017	1.017	125.94	63.0	0.583	
22	22 13C-1,2,3,7,8,9-HxCDD	1.92e5	1.22	NO	0.659	10.010	35.030	35.03	1.025	1.025	124.44	62.3	0.687	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.61e5	1.01	NO	0.534	10.010	38.531	38.55	1.127	1.128	128.39	64.3	0.768	
24	24 13C-OCDD	2.85e5	0.93	NO	0.470	10.010	41.813	41.85	1.223	1.224	258.26	64.6	1.18	
25	25 13C-2,3,7,8-TCDF	4.74e5	0.74	NO	0.977	10.010	25.175	25.17	0.989	0.989	142.41	71.3	0.520	
26	26 13C-1,2,3,7,8-PeCDF	3.83e5	1.53	NO	0.778	10.010	29.998	29.98	1.178	1.177	144.78	72.5	1.03	
27	27 13C-2,3,4,7,8-PeCDF	3.78e5	1.58	NO	0.750	10.010	30.988	30.99	1.217	1.217	148.04	74.1	1.06	
28	28 13C-1,2,3,4,7,8-HxCDF	2.76e5	0.53	NO	0.845	10.010	33.796	33.79	0.989	0.988	139.56	69.8	1.13	
29	29 13C-1,2,3,6,7,8-HxCDF	3.47e5	0.55	NO	1.03	10.010	33.913	33.91	0.992	0.992	144.03	72.1	0.933	
30	30 13C-2,3,4,6,7,8-HxCDF	2.93e5	0.53	NO	0.893	10.010	34.487	34.48	1.009	1.009	140.05	70.1	1.07	
31	31 13C-1,2,3,7,8,9-HxCDF	2.55e5	0.51	NO	0.734	10.010	35.389	35.37	1.035	1.035	148.06	74.1	1.30	

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-9.qld

Last Altered: Tuesday, December 24, 2019 11:49:23 AM Pacific Standard Time  
Printed: Tuesday, December 24, 2019 11:50:12 AM Pacific Standard Time

Name: 191217K3\_9, Date: 18-Dec-2019, Time: 08:32:07, ID: 1903655-08 PDI-035SC-A-12-12.7-191010 13.41, Description: PDI-035SC-A-12-12.7-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.48e5	0.43	NO	0.754	10.010	37.105	37.12	1.085	1.086	140.42	70.3	0.887	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.64e5	0.45	NO	0.539	10.010	39.133	39.17	1.145	1.146	129.48	64.8	1.24	
34	34 13C-OCDF	4.19e5	0.87	NO	0.593	10.010	42.001	42.03	1.229	1.230	301.71	75.5	1.27	
35	35 37Cl-2,3,7,8-TCDD	1.59e5			1.07	10.010	26.183	26.18	1.028	1.028	80.014	100	0.126	
36	36 13C-1,2,3,4-TCDD	3.72e5	0.79	NO	1.00	10.010	25.450	25.47	1.000	1.000	199.80	100	0.675	
37	37 13C-1,2,3,4-TCDF	6.80e5	0.74	NO	1.00	10.010	23.550	23.57	1.000	1.000	199.80	100	0.508	
38	38 13C-1,2,3,4,6,9-HxCDF	4.68e5	0.53	NO	1.00	10.010	34.160	34.19	1.000	1.000	199.80	100	0.958	
39	39 Total Tetra-Dioxins				0.925	10.010	24.620		0.000				0.107	
40	40 Total Penta-Dioxins				0.905	10.010	29.960		0.000				0.0361	
41	41 Total Hexa-Dioxins				0.967	10.010	33.635		0.000				0.0800	
42	42 Total Hepta-Dioxins				1.04	10.010	38.800		0.000				0.158	
43	43 Total Tetra-Furans				0.938	10.010	23.610		0.000				0.0366	
44	44 1st Func. Penta-Furans				0.976	10.010	27.040		0.000				0.0158	
45	45 Total Penta-Furans				0.976	10.010	29.275		0.000				0.0191	
46	46 Total Hexa-Furans				1.18	10.010	33.555		0.000				0.0303	
47	47 Total Hepta-Furans				1.13	10.010	37.835		0.000				0.0227	

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-9.qld

Last Altered: Tuesday, December 24, 2019 11:49:23 AM Pacific Standard Time  
Printed: Tuesday, December 24, 2019 11:50:12 AM Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57  
Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_9, Date: 18-Dec-2019, Time: 08:32:07, ID: 1903655-08 PDI-035SC-A-12-12.7-191010 13.41, Description: PDI-035SC-A-12-12.7-191010

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hepta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Tetra-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Furans function 1**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-9.qld

Last Altered: Tuesday, December 24, 2019 11:49:23 AM Pacific Standard Time

Printed: Tuesday, December 24, 2019 11:50:12 AM Pacific Standard Time

Name: 191217K3\_9, Date: 18-Dec-2019, Time: 08:32:07, ID: 1903655-08 PDI-035SC-A-12-12.7-191010 13.41, Description: PDI-035SC-A-12-12.7-191010

**Penta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hepta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

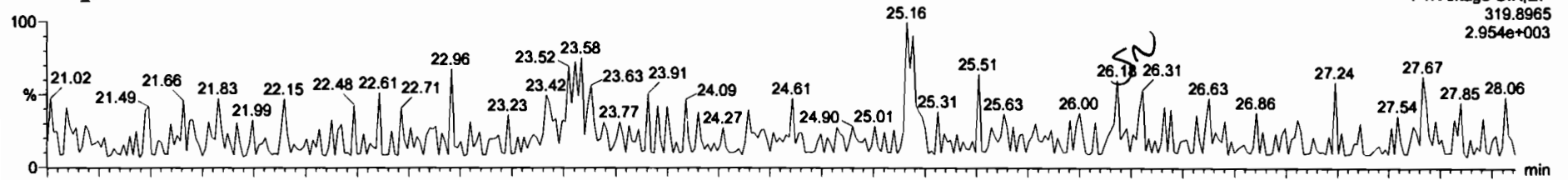
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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

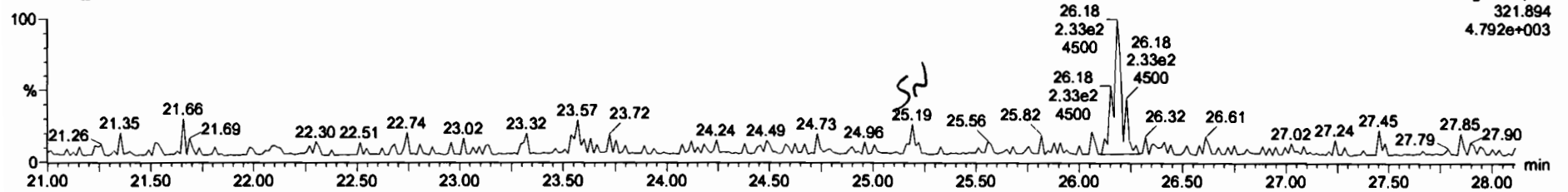
Name: 191217K3\_9, Date: 18-Dec-2019, Time: 08:32:07, ID: 1903655-08 PDI-035SC-A-12-12.7-191010 13.41, Description: PDI-035SC-A-12-12.7-191010

**2,3,7,8-TCDD**

191217K3\_9

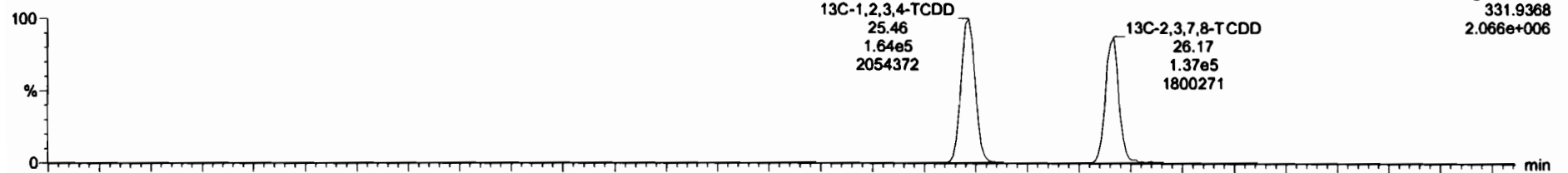


191217K3\_9

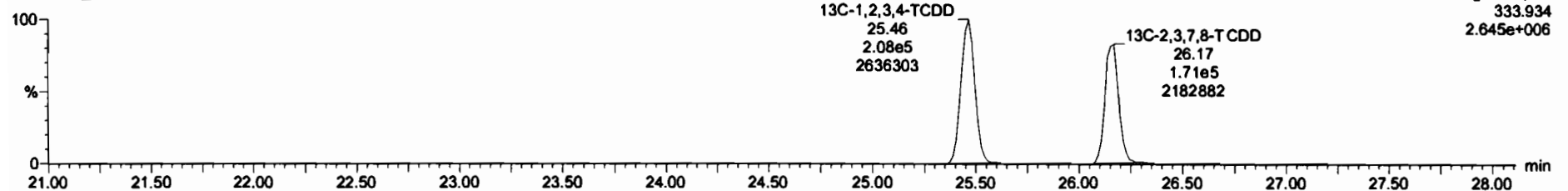


**13C-2,3,7,8-TCDD**

191217K3\_9



191217K3\_9



Dataset: Untitled

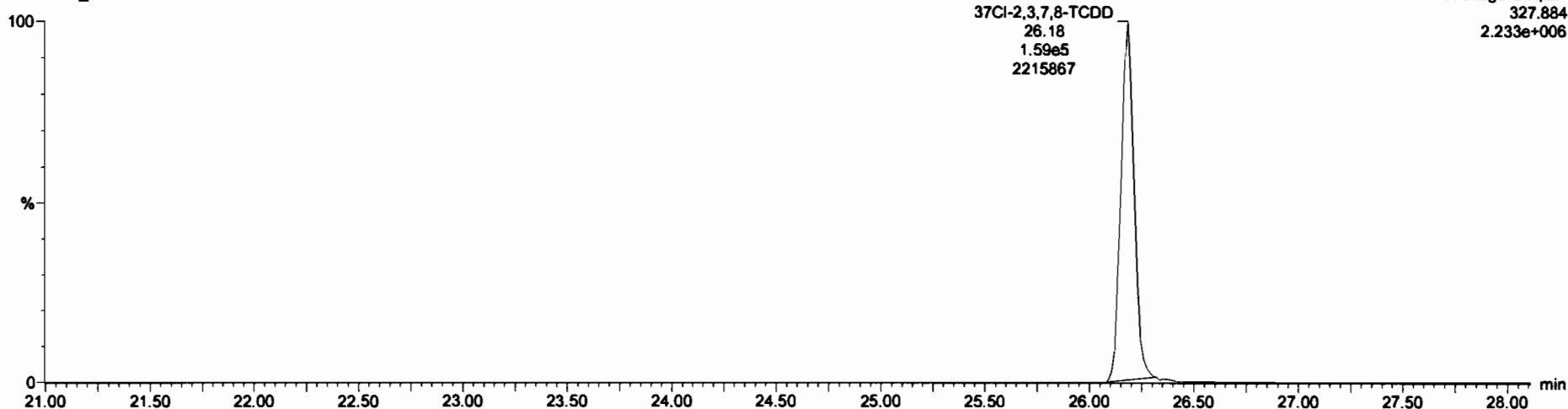
Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_9, Date: 18-Dec-2019, Time: 08:32:07, ID: 1903655-08 PDI-035SC-A-12-12.7-191010 13.41, Description: PDI-035SC-A-12-12.7-191010

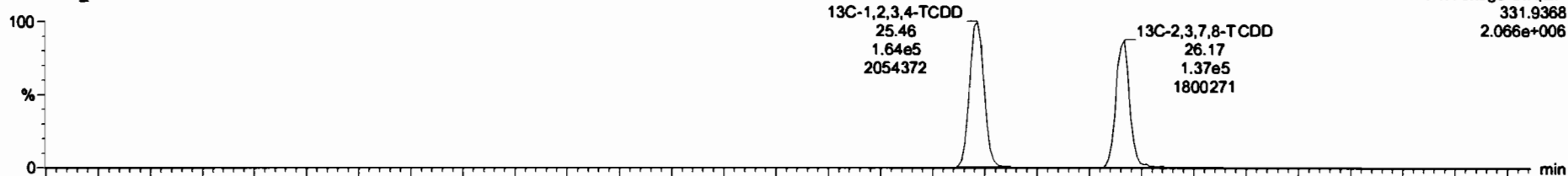
**37Cl-2,3,7,8-TCDD**

191217K3\_9

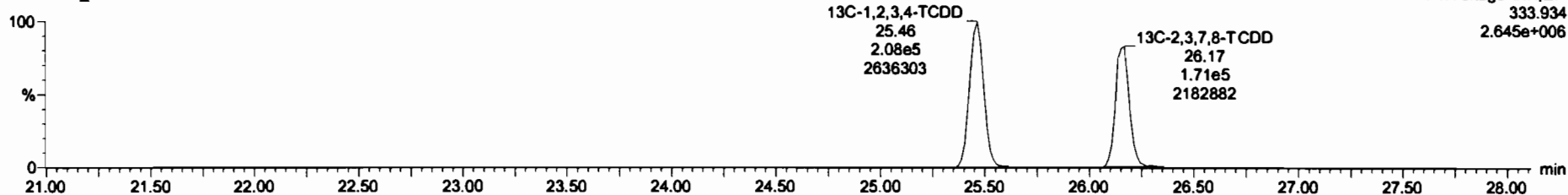


**13C-1,2,3,4-TCDD**

191217K3\_9



191217K3\_9



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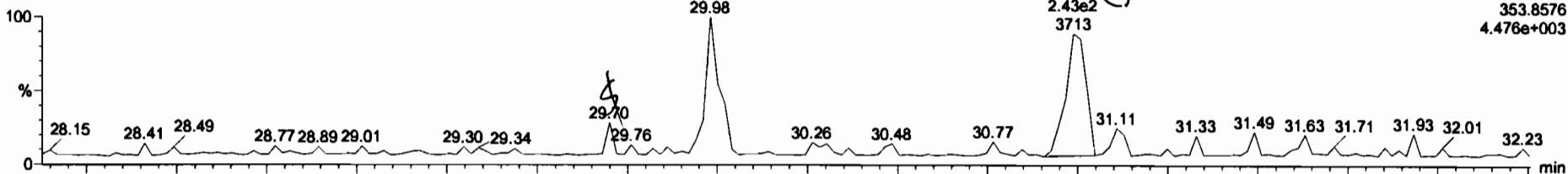
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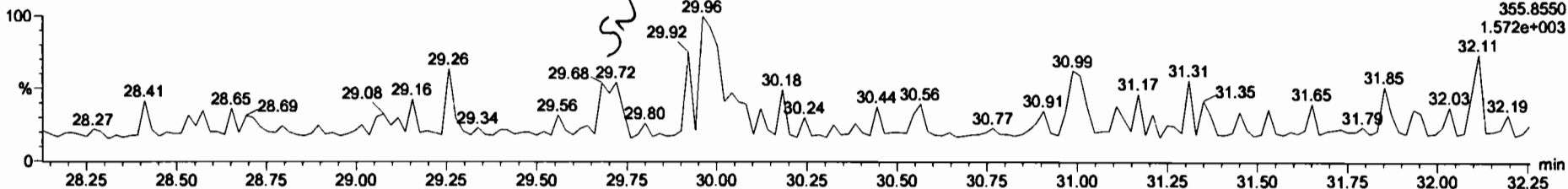
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**1,2,3,7,8-PeCDD**

191217K3\_9

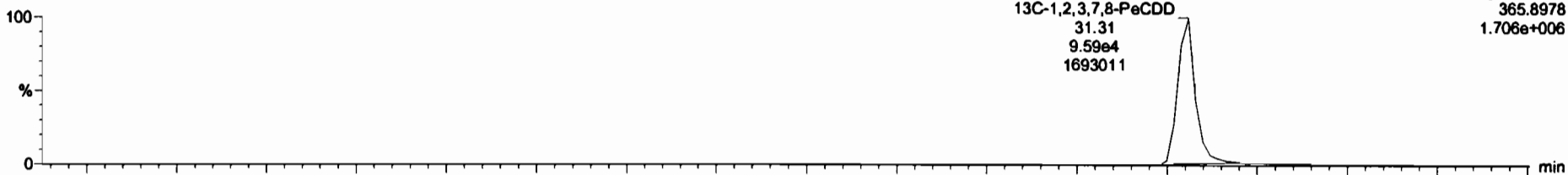


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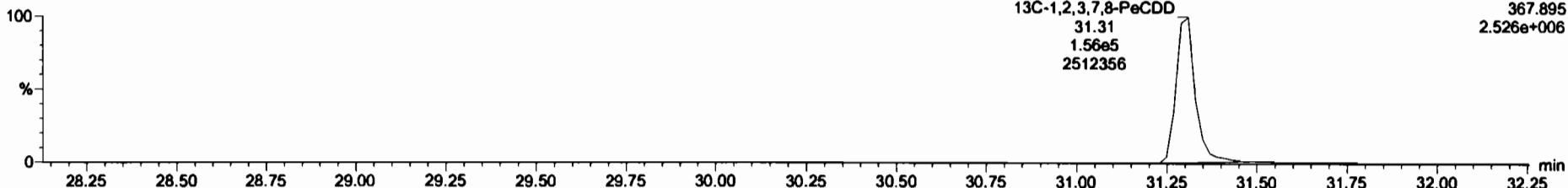


**13C-1,2,3,7,8-PeCDD**

191217K3\_9



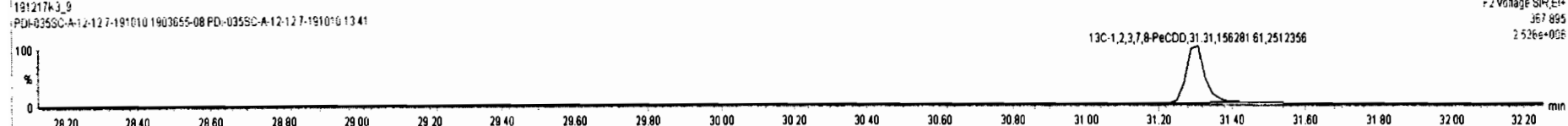
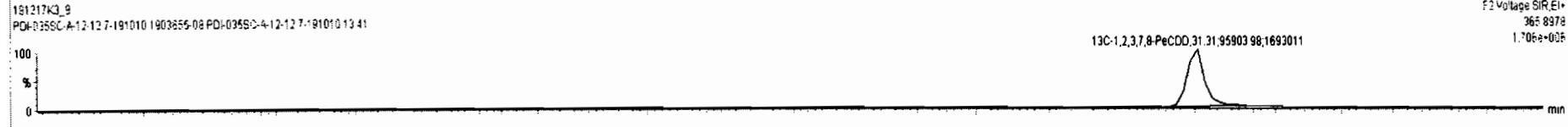
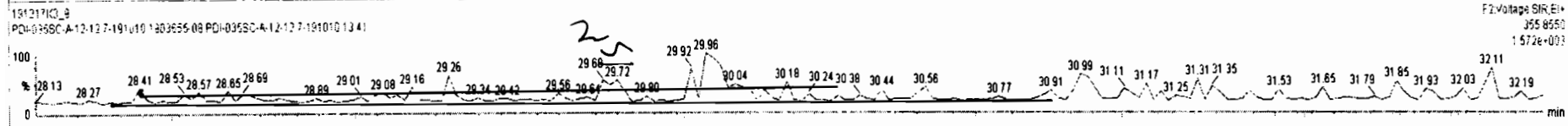
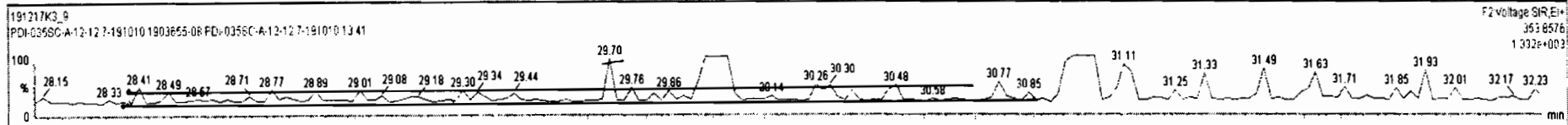
191217K3\_9



191217K3\_9.qld\* (Chromatogram) PD-0355C-A-12-12-7-191010 1903655-08 PD-0355C-A-12-12-7-191010

Name	Resp	RA	n/y	RRF	wtAval	RT	PRT	Conc.	%Rec	DL	EMPC
29	13C-1,2,3,6,7,8-HxCDF	3.47e5	0.55	NO	1.0267	10.010	33.91	0.992	144	72.1	0.933
30	13C-2,3,4,6,7,8-HxCDF	2.93e5	0.53	NO	0.8929	10.010	34.48	1.009	140	70.1	1.07
31	13C-1,2,3,7,8,9-HxCDF	2.55e5	0.51	NO	0.7343	10.010	35.37	1.035	148	74.1	1.30
32	13C-1,2,3,4,6,7,8-HpCDF	2.48e5	0.43	NO	0.7542	10.010	37.12	1.086	140	70.3	0.887
33	13C-1,2,3,4,7,8,9-HpCDF	1.64e5	0.45	NO	0.5390	10.010	39.17	1.146	129	64.8	1.24
34	13C-OCDF	4.19e5	0.87	NO	0.5925	10.010	42.03	1.230	302	75.5	1.27
35	37Cl-2,3,7,8-TCDD	1.59e5			1.0685	10.010	26.18	1.028	80.0	100	0.126
36	13C-1,2,3,4-TCDD	3.72e5	0.79	NO	1.0000	10.010	25.47	1.000	200	100	0.675
37	13C-1,2,3,4-TCDF	6.80e5	0.74	NO	1.0000	10.010	23.57	1.000	200	100	0.508
38	13C-1,2,3,4,6,9-HxCDF	4.68e5	0.53	NO	1.0000	10.010	34.19	1.000	200	100	0.958
39	Total Tetra-Dioxins				0.9249	10.010					0.107
40	Total Penta-Dioxins				0.9046	10.010					0.0361

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1							





Dataset: Untitled

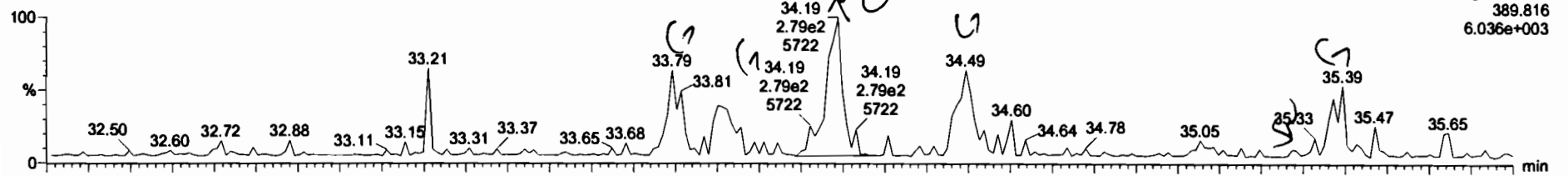
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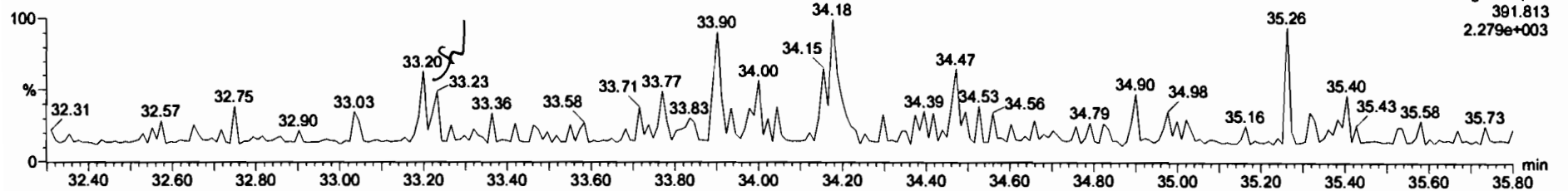
Name: 191217K3\_9, Date: 18-Dec-2019, Time: 08:32:07, ID: 1903655-08 PDI-035SC-A-12-12.7-191010 13.41, Description: PDI-035SC-A-12-12.7-191010

1,2,3,4,7,8-HxCDD

191217K3\_9

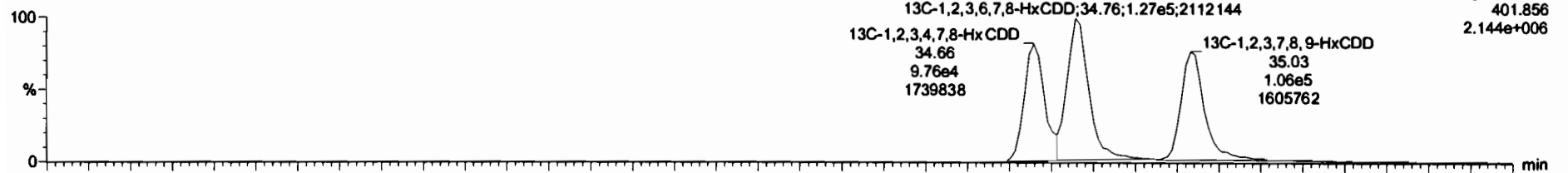


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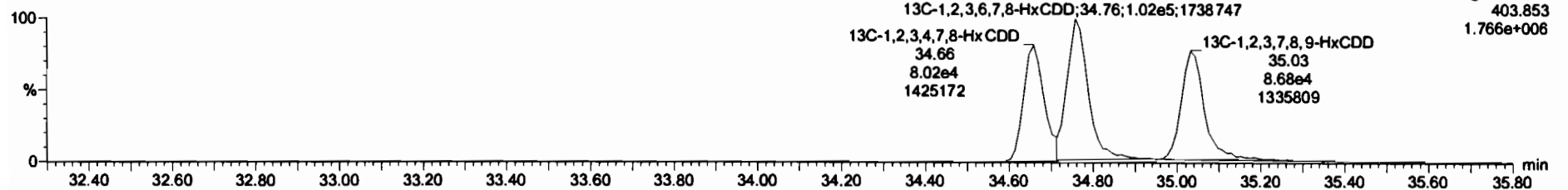


13C-1,2,3,4,7,8-HxCDD

191217K3\_9

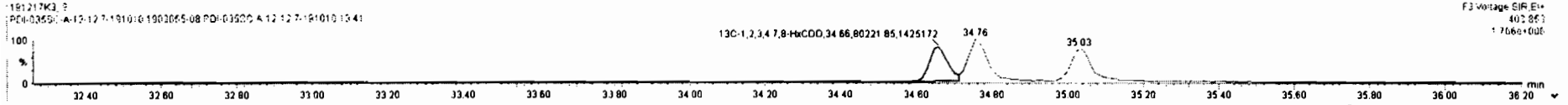
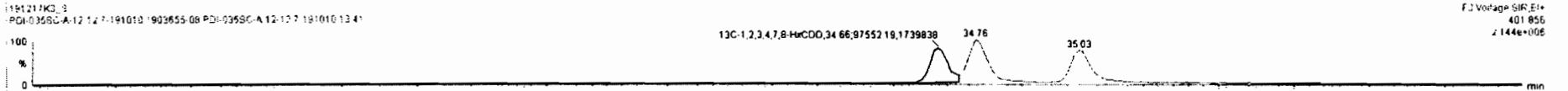
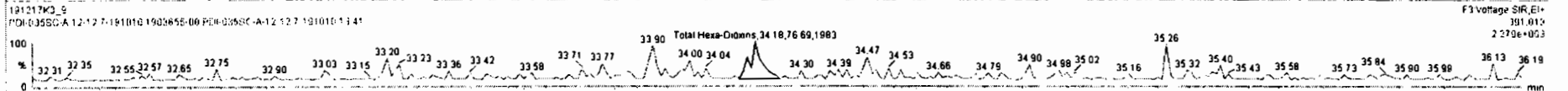
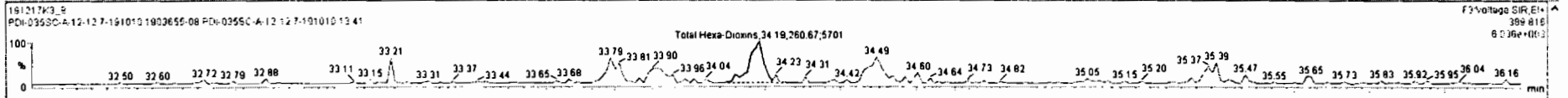


191217K3\_9



#	Name	Resp	RA	nly	RFR	wVnd	RT	RRT	Conc.	%Rec	DL	EMPC
27	13C-2,3,4,7,8-PeCDF	3.78e5	1.58	NO	0.7498	10.010	30.99	1.217	148	74.1	1.06	
28	13C-1,2,3,4,7,8-HxCDF	2.76e5	0.53	NO	0.8452	10.010	33.78	0.988	140	69.8	1.13	
29	13C-1,2,3,6,7,8-HxCDF	3.47e5	0.55	NO	1.0267	10.010	33.91	0.992	144	72.1	0.933	
30	13C-2,3,4,6,7,8-HxCDF	2.93e5	0.53	NO	0.8929	10.010	34.48	1.009	140	70.1	1.07	
31	13C-1,2,3,7,8,9-HxCDF	2.55e5	0.51	NO	0.7343	10.010	35.37	1.035	148	74.1	1.30	
32	13C-1,2,3,4,6,7,8-HpCDF	2.48e5	0.43	NO	0.7542	10.010	37.12	1.086	140	70.3	0.887	
33	13C-1,2,3,4,7,8,9-HpCDF	1.84e5	0.45	NO	0.5390	10.010	39.17	1.146	128	84.8	1.24	
34	13C-OCDF	4.19e5	0.87	NO	0.5825	10.010	42.03	1.230	302	75.5	1.27	
35	37Cl-2,3,7,8-TCDD	1.59e5			1.0686	10.010	26.18	1.028	80.0	100	0.126	
36	13C-1,2,3,4-TCDD	3.73e5	0.79	NO	1.0000	10.010	25.47	1.000	200	100	0.875	
37	13C-1,2,3,4-TCDF	6.80e5	0.74	NO	1.0000	10.010	23.57	1.000	200	100	0.508	
38	13C-1,2,3,4,6,8-HxCDF	4.68e5	0.53	NO	1.0000	10.010	34.19	1.000	200	100	0.958	

#	Name	RT	rt Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Hexa-Chlorins	34.19	2.807e2	7.669e1	3.40	YES	0.17757	0.00000

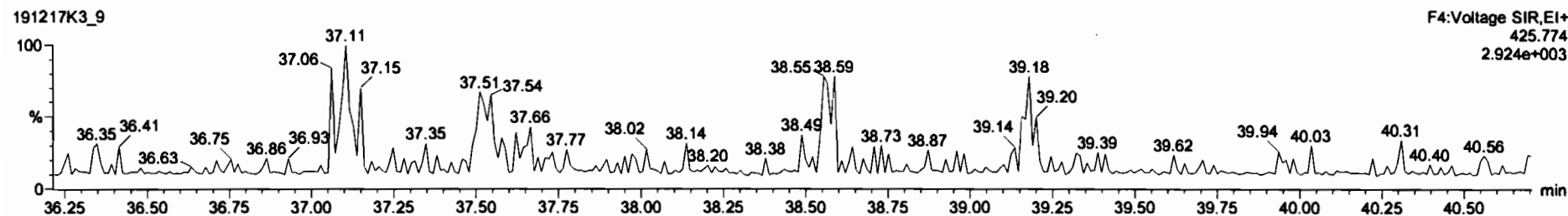
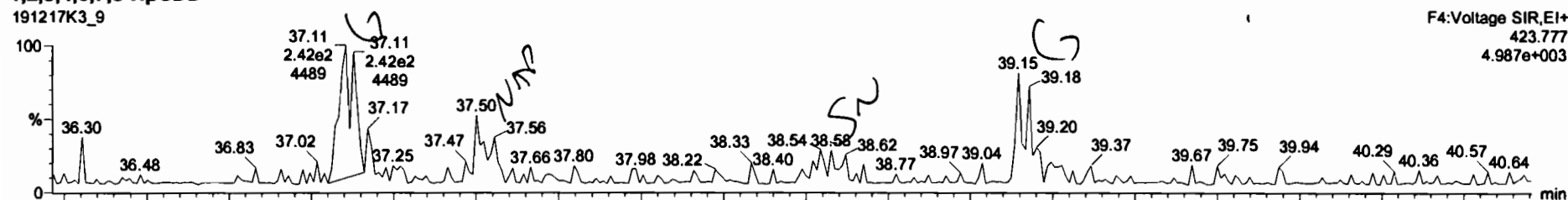


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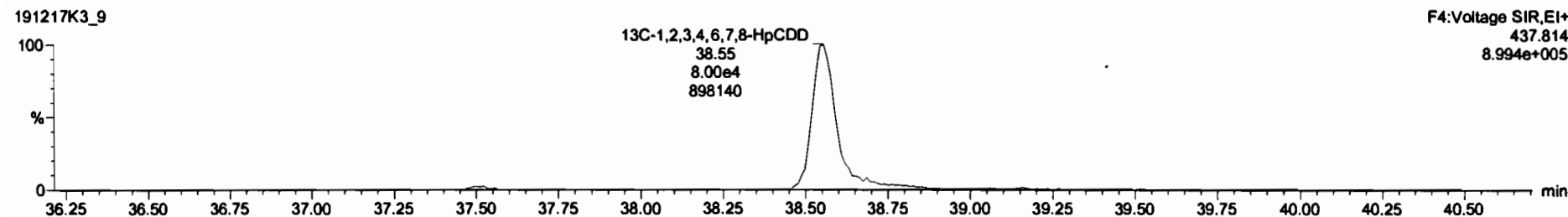
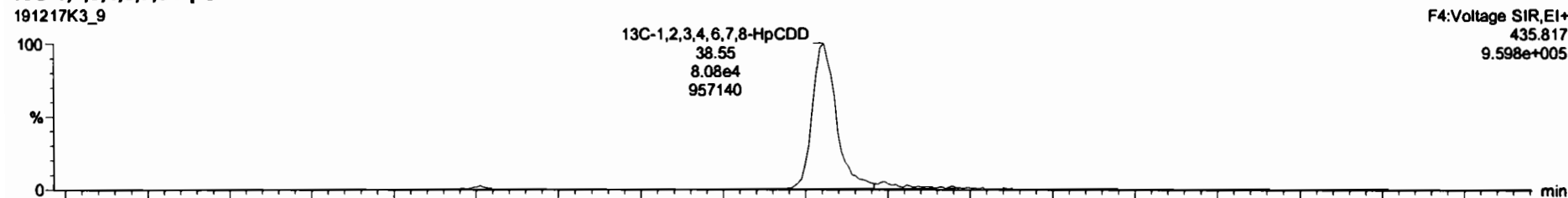
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1,2,3,4,6,7,8-HpCDD



13C-1,2,3,4,6,7,8-HpCDD

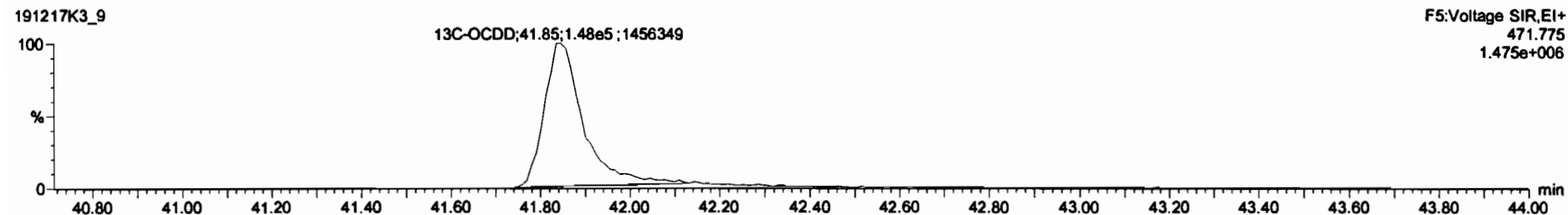
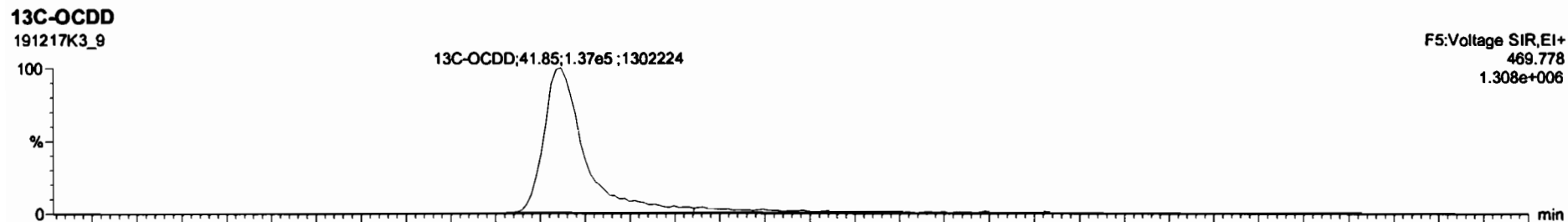
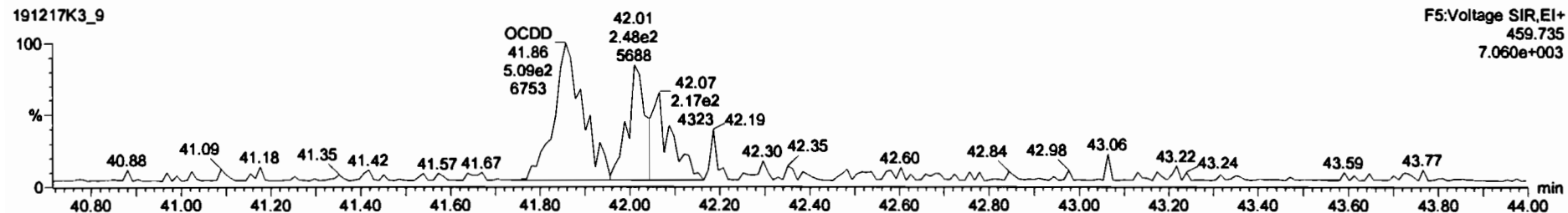
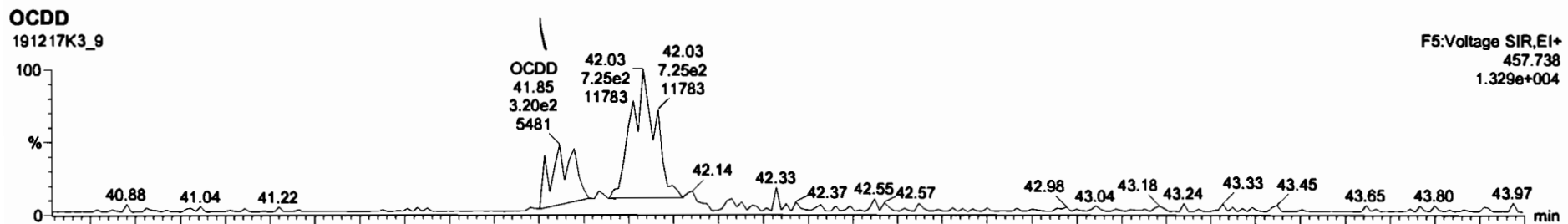


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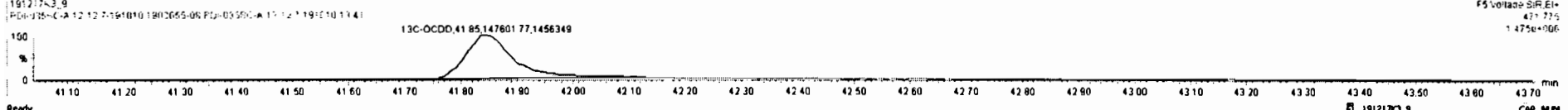
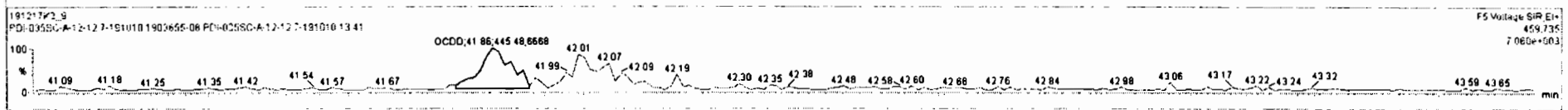
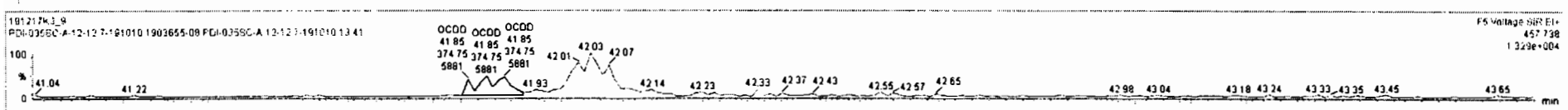
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Name	Resp	RA	n/y	RF	wtAct	RT	RRT	Conc	%Rec	DL	EMPC
5 1,2,3,7,8,9-HxCDD			NO	0.9778	10.010					0.164	
6 1,2,3,4,6,7,8-HpCDD			NO	1.0375	10.010					0.283	
7 OCDD	8.20e2	0.84	NO	0.9718	10.010	41.85	1.000	1.18		0.898	1.18
8 2,3,7,8-TCDF			NO	0.9376	10.010					0.0783	
9 1,2,3,7,8-PeCDF			NO	0.9762	10.010					0.0549	
10 2,3,4,7,8-PeCDF			NO	1.0049	10.010					0.0479	
11 1,2,3,4,7,8-HxCDF			NO	1.2434	10.010					0.0487	
12 1,2,3,6,7,8-HxCDF			NO	1.0850	10.010					0.0504	
13 2,3,4,6,7,8-HxCDF			NO	1.1806	10.010					0.0515	
14 1,2,3,7,8,9-HxCDF			NO	1.0728	10.010					0.0732	
15 1,2,3,4,6,7,8-HpCDF			NO	1.1300	10.010					0.0465	
16 1,2,3,4,7,8,9-HpCDF			NO	1.2609	10.010					0.0699	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1							



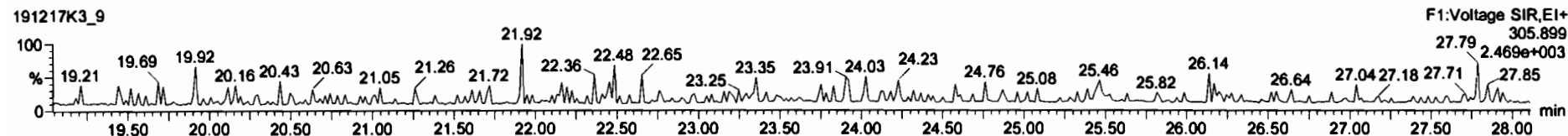
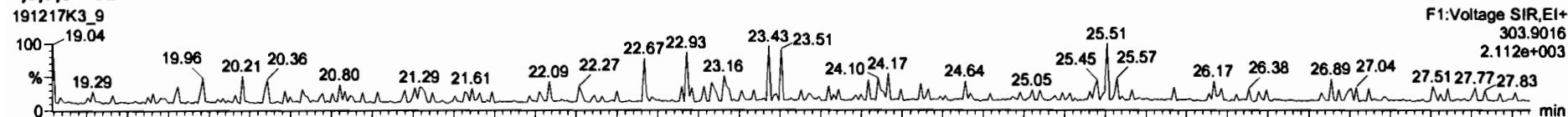
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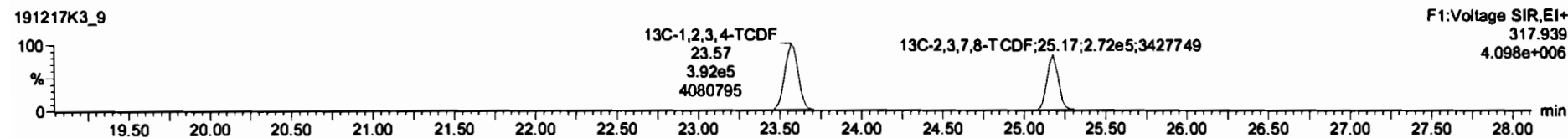
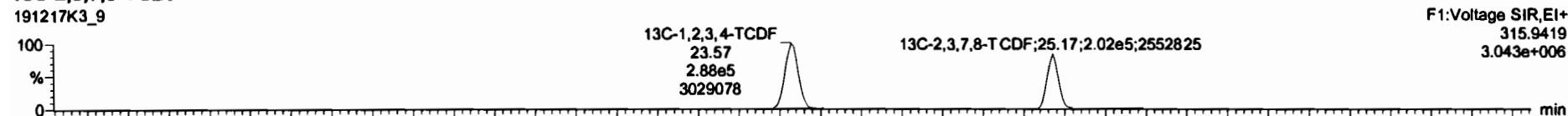
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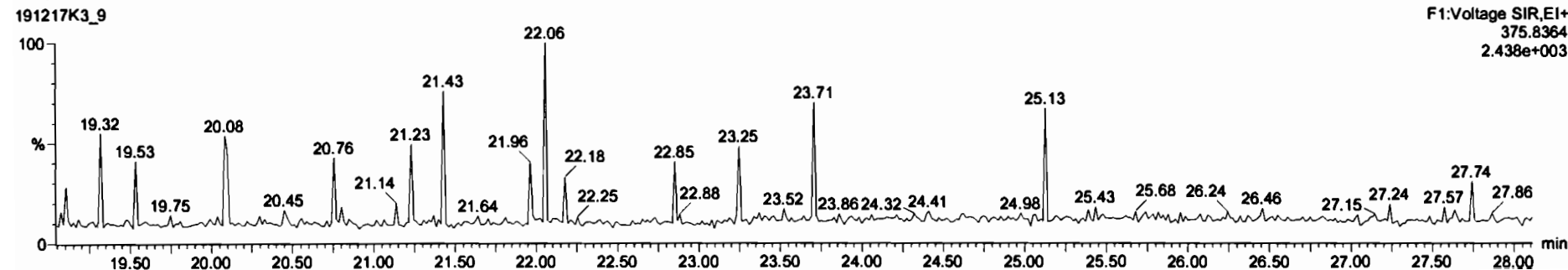
**2,3,7,8-TCDF**



**13C-2,3,7,8-TCDF**



**DPE1**



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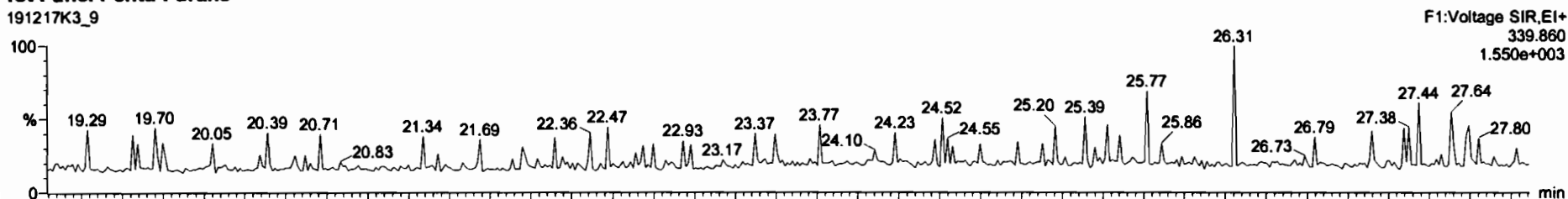
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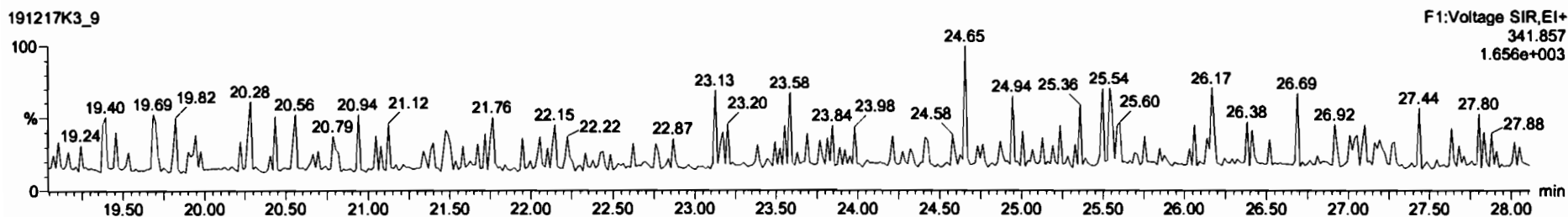
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1st Func. Penta-Furans

191217K3\_9

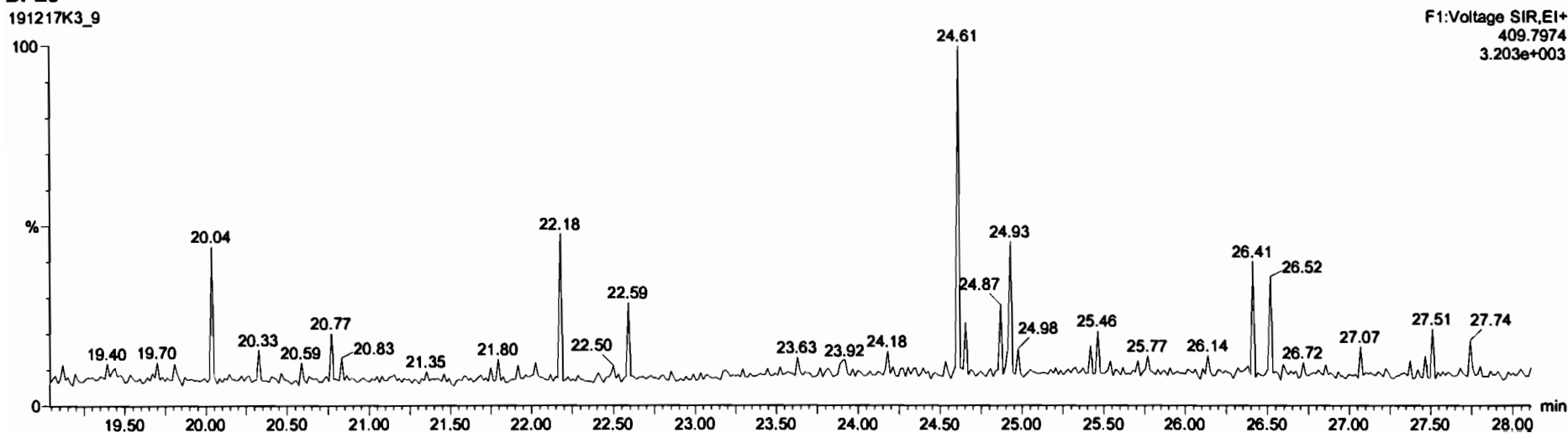


191217K3\_9



DPE6

191217K3\_9



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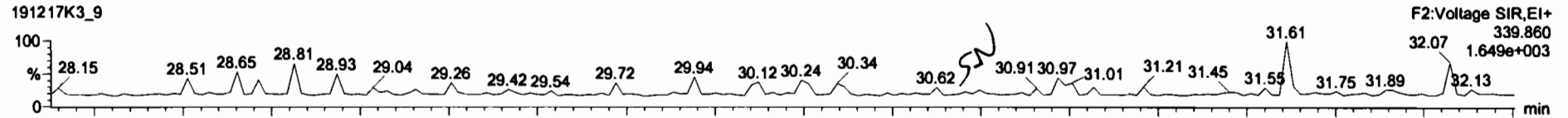
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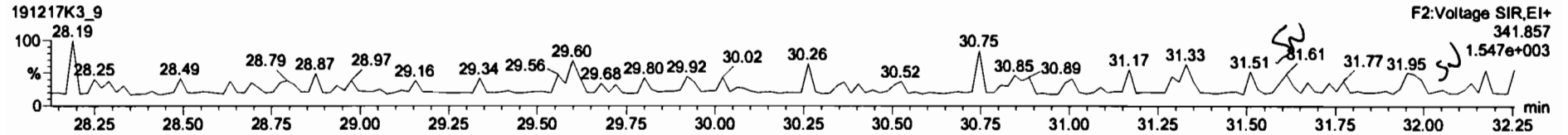
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**1,2,3,7,8-PeCDF**

191217K3\_9

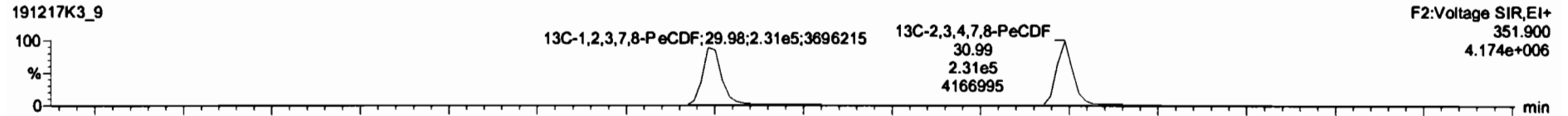


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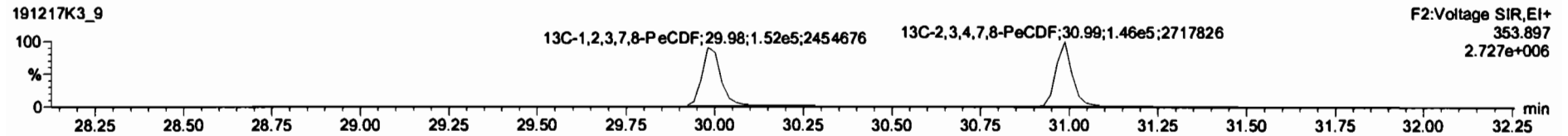


**13C-1,2,3,7,8-PeCDF**

191217K3\_9

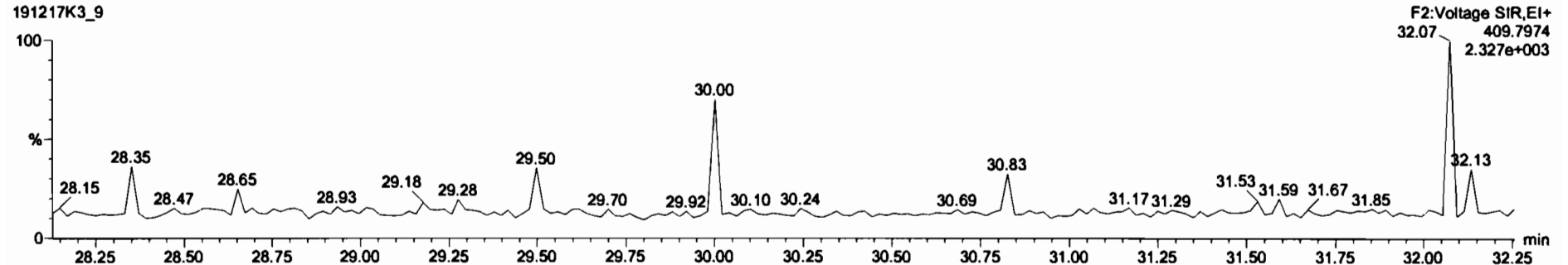


191217K3\_9



**DPE2**

191217K3\_9





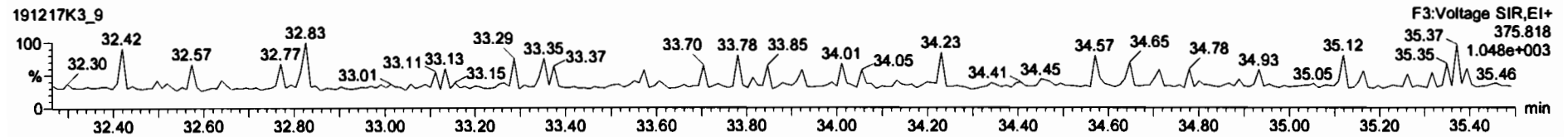
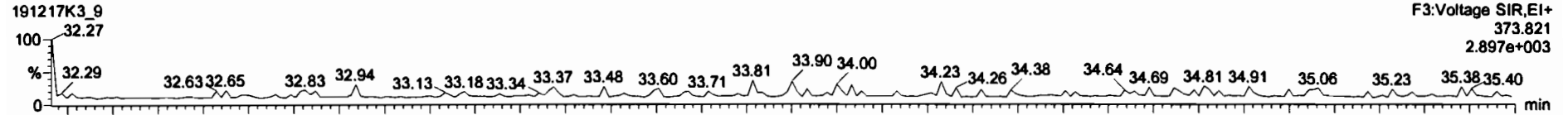
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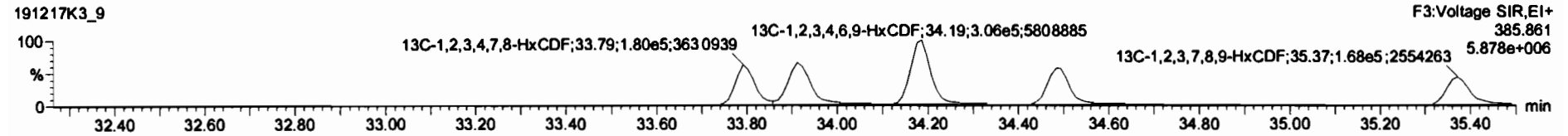
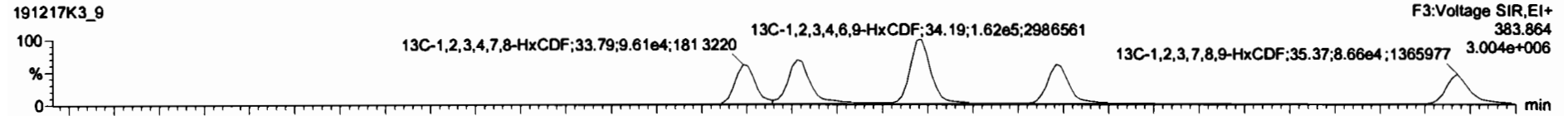
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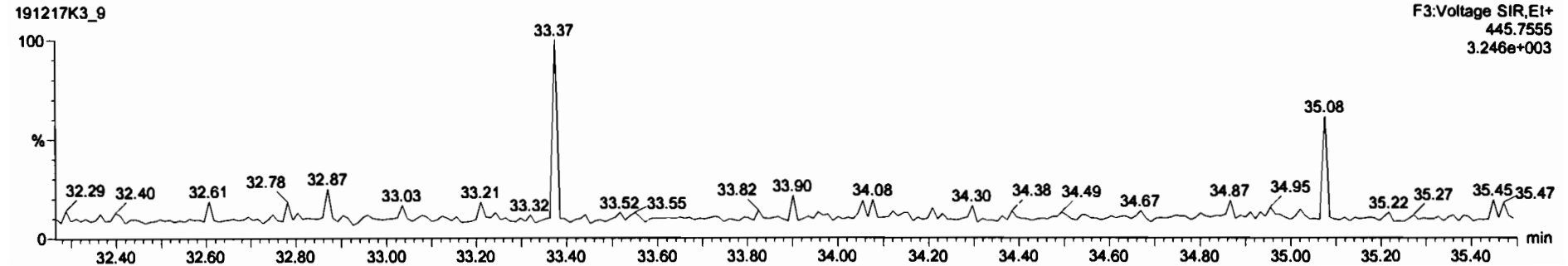
**1,2,3,4,7,8-HxCDF**



**13C-1,2,3,4,7,8-HxCDF**



**DPE3**

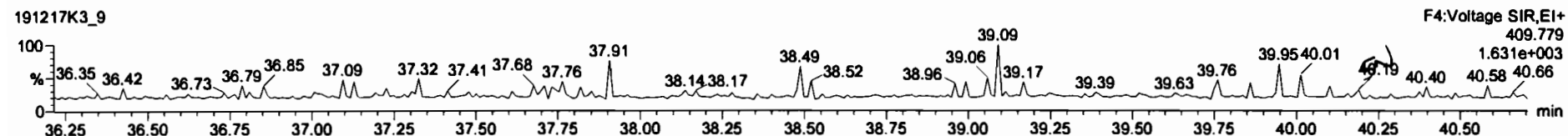
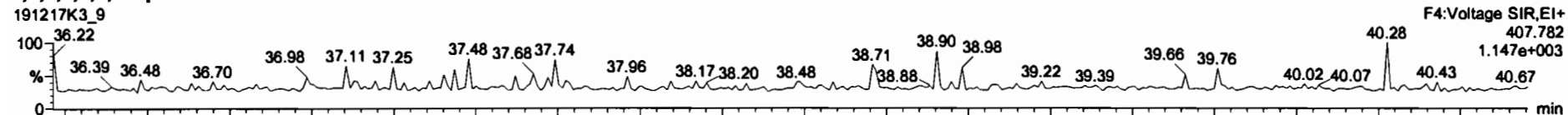


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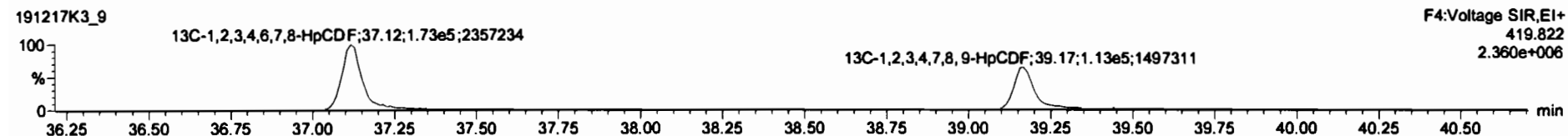
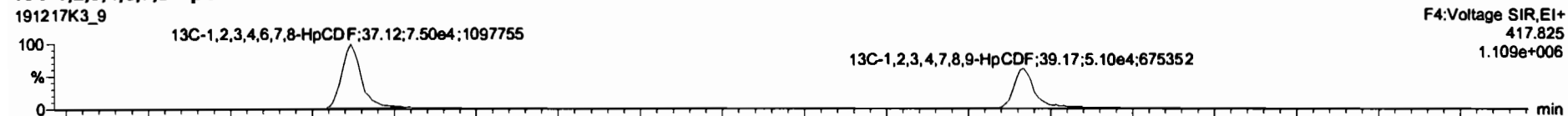
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Name: 191217K3\_9, Date: 18-Dec-2019, Time: 08:32:07, ID: 1903655-08 PDI-035SC-A-12-12.7-191010 13.41, Description: PDI-035SC-A-12-12.7-191010

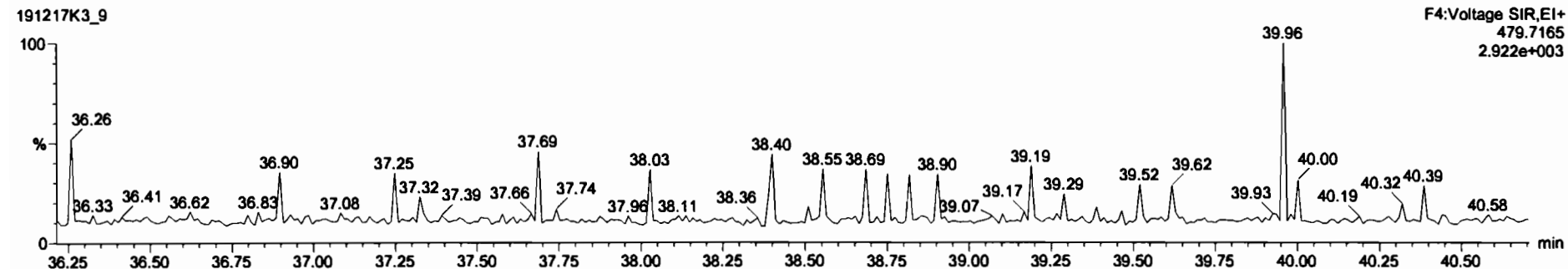
### 1,2,3,4,6,7,8-HpCDF



### 13C-1,2,3,4,6,7,8-HpCDF



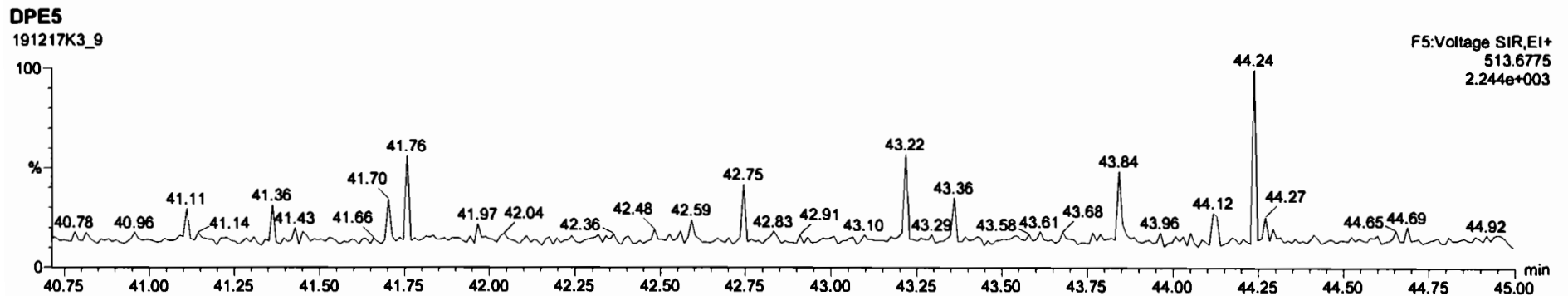
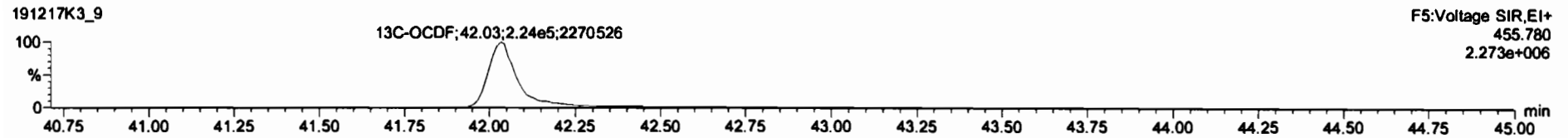
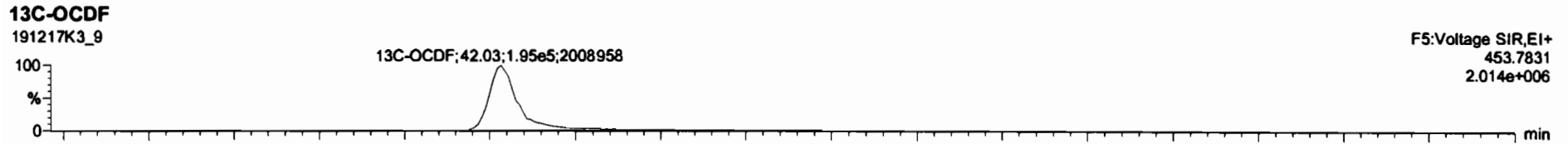
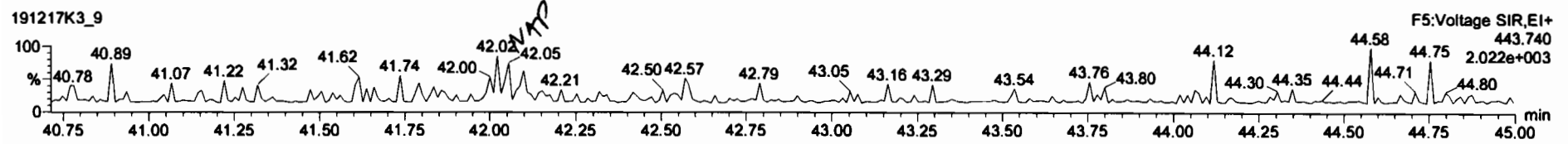
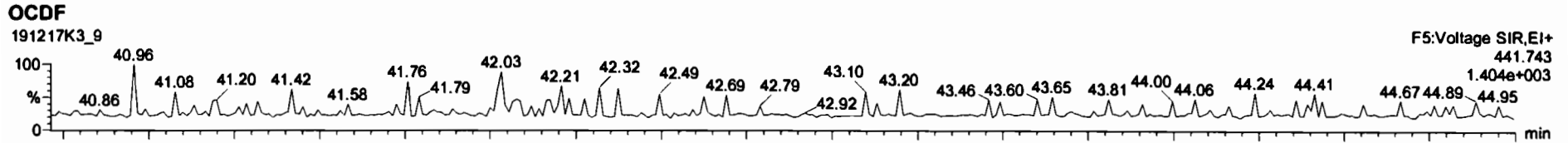
### DPE4



Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_9, Date: 18-Dec-2019, Time: 08:32:07, ID: 1903655-08 PDI-035SC-A-12-12.7-191010 13.41, Description: PDI-035SC-A-12-12.7-191010

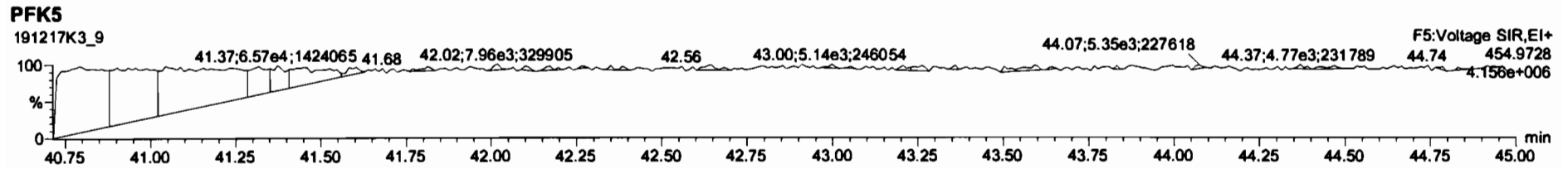
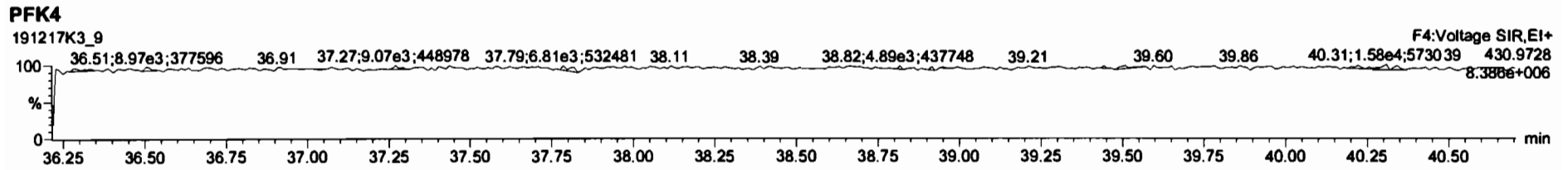
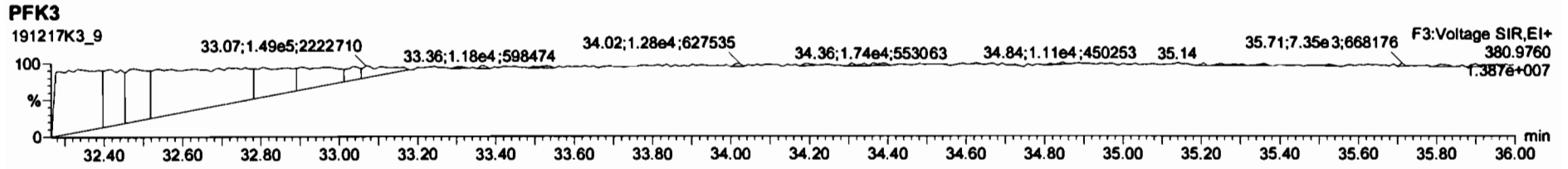
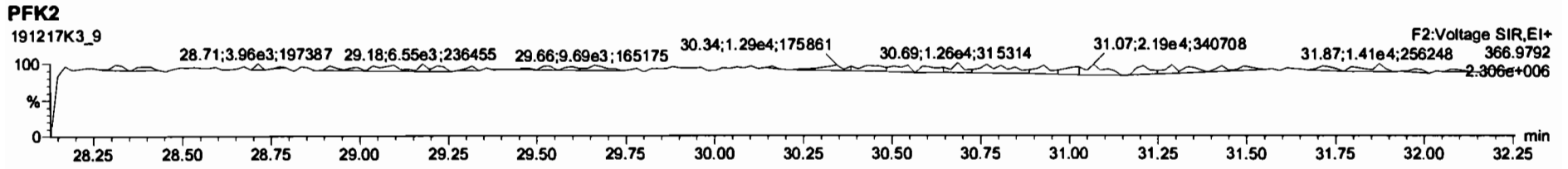
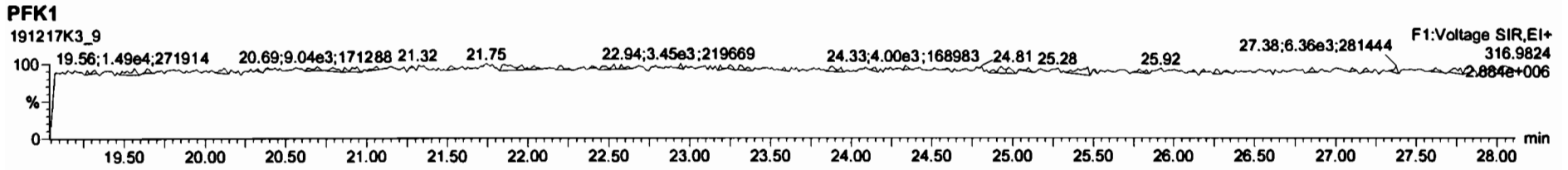


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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_9, Date: 18-Dec-2019, Time: 08:32:07, ID: 1903655-08 PDI-035SC-A-12-12.7-191010 13.41, Description: PDI-035SC-A-12-12.7-191010



Dataset: U:\VG11.PRO\Results\191217K3\191217K3-10.qld

Last Altered: Tuesday, December 24, 2019 11:39:46 AM Pacific Standard Time

Printed: Tuesday, December 24, 2019 11:40:27 AM Pacific Standard Time

*HL 12-24-19*

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

*M-116*

Name: 191217K3\_10, Date: 18-Dec-2019, Time: 09:20:29, ID: 1903655-09 PDI-041SC-A-12-13-191010 11.8, Description: PDI-041SC-A-12-13-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.925	10.003	26.184		1.001				0.208	
2	2 1,2,3,7,8-PeCDD			NO	0.905	10.003	31.331		1.001				0.108	
3	3 1,2,3,4,7,8-HxCDD			NO	1.07	10.003	34.668		1.000				0.186	
4	4 1,2,3,6,7,8-HxCDD			NO	0.967	10.003	34.768		1.000				0.176	
5	5 1,2,3,7,8,9-HxCDD			NO	0.978	10.003	35.066		1.001				0.214	
6	6 1,2,3,4,6,7,8-HpCDD			NO	1.04	10.003	38.566		1.000				0.376	
7	7 OCDD			NO	0.972	10.003	41.835		1.000				0.641	
8	8 2,3,7,8-TCDF			NO	0.938	10.003	25.199		1.001				0.108	
9	9 1,2,3,7,8-PeCDF			NO	0.976	10.003	30.022		1.001				0.0732	
10	10 2,3,4,7,8-PeCDF			NO	1.00	10.003	31.018		1.001				0.0606	
11	11 1,2,3,4,7,8-HxCDF			NO	1.24	10.003	33.802		1.000				0.0834	
12	12 1,2,3,6,7,8-HxCDF			NO	1.10	10.003	33.933		1.000				0.0833	
13	13 2,3,4,6,7,8-HxCDF			NO	1.18	10.003	34.527		1.001				0.0880	
14	14 1,2,3,7,8,9-HxCDF			NO	1.07	10.003	35.371		1.000				0.129	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.13	10.003	37.153		1.001				0.0613	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.26	10.003	39.168		1.000				0.0784	
17	17 OCDF			NO	1.10	10.003	42.032		1.000				0.277	
18	18 13C-2,3,7,8-TCDD	2.18e5	0.77	NO	1.05	10.003	26.146	26.15	1.027	1.028	170.91	85.5	0.871	
19	19 13C-1,2,3,7,8-PeCDD	2.01e5	0.61	NO	0.743	10.003	31.290	31.31	1.230	1.230	223.15	112	1.06	
20	20 13C-1,2,3,4,7,8-HxCDD	1.29e5	1.28	NO	0.646	10.003	34.658	34.66	1.014	1.014	137.37	68.7	0.973	
21	21 13C-1,2,3,6,7,8-HxCDD	1.68e5	1.22	NO	0.777	10.003	34.757	34.77	1.017	1.017	149.43	74.7	0.810	
22	22 13C-1,2,3,7,8,9-HxCDD	1.37e5	1.11	NO	0.659	10.003	35.030	35.03	1.025	1.025	143.54	71.8	0.954	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.91e4	1.10	NO	0.534	10.003	38.531	38.55	1.127	1.128	128.06	64.1	0.904	
24	24 13C-OCDD	1.77e5	0.88	NO	0.470	10.003	41.813	41.83	1.223	1.224	259.15	64.8	2.07	
25	25 13C-2,3,7,8-TCDF	3.34e5	0.72	NO	0.977	10.003	25.159	25.17	0.989	0.989	164.93	82.5	0.959	
26	26 13C-1,2,3,7,8-PeCDF	2.83e5	1.56	NO	0.778	10.003	29.979	30.00	1.178	1.179	175.45	87.8	1.18	
27	27 13C-2,3,4,7,8-PeCDF	2.82e5	1.56	NO	0.750	10.003	30.969	30.99	1.217	1.218	181.44	90.7	1.23	
28	28 13C-1,2,3,4,7,8-HxCDF	1.99e5	0.51	NO	0.845	10.003	33.796	33.80	0.989	0.989	162.61	81.3	0.915	
29	29 13C-1,2,3,6,7,8-HxCDF	2.44e5	0.53	NO	1.03	10.003	33.913	33.92	0.992	0.992	164.06	82.1	0.753	
30	30 13C-2,3,4,6,7,8-HxCDF	2.14e5	0.52	NO	0.893	10.003	34.487	34.49	1.009	1.009	165.05	82.6	0.866	
31	31 13C-1,2,3,7,8,9-HxCDF	1.74e5	0.51	NO	0.734	10.003	35.389	35.37	1.035	1.035	163.37	81.7	1.05	

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-10.qld

Last Altered: Tuesday, December 24, 2019 11:39:46 AM Pacific Standard Time

Printed: Tuesday, December 24, 2019 11:40:27 AM Pacific Standard Time

Name: 191217K3\_10, Date: 18-Dec-2019, Time: 09:20:29, ID: 1903655-09 PDI-041SC-A-12-13-191010 11.8, Description: PDI-041SC-A-12-13-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	1.61e5	0.45	NO	0.754	10.003	37.105	37.12	1.085	1.086	147.80	73.9	1.19	
33	13C-1,2,3,4,7,8,9-HpCDF	1.06e5	0.43	NO	0.539	10.003	39.133	39.17	1.145	1.146	135.67	67.9	1.66	
34	13C-OCDF	2.58e5	0.89	NO	0.593	10.003	42.001	42.03	1.229	1.230	300.87	75.2	1.19	
35	37Cl-2,3,7,8-TCDD	9.96e4			1.07	10.003	26.167	26.18	1.028	1.029	76.652	95.8	0.124	
36	13C-1,2,3,4-TCDD	2.43e5	0.79	NO	1.00	10.003	25.450	25.45	1.000	1.000	199.93	100	0.914	
37	13C-1,2,3,4-TCDF	4.14e5	0.75	NO	1.00	10.003	23.550	23.55	1.000	1.000	199.93	100	0.937	
38	13C-1,2,3,4,6,9-HxCDF	2.90e5	0.53	NO	1.00	10.003	34.160	34.19	1.000	1.000	199.93	100	0.773	
39	Total Tetra-Dioxins				0.925	10.003	24.620		0.000				0.134	
40	Total Penta-Dioxins				0.905	10.003	29.960		0.000				0.0260	
41	Total Hexa-Dioxins				0.967	10.003	33.635		0.000				0.121	
42	Total Hepta-Dioxins				1.04	10.003	38.800		0.000				0.178	
43	Total Tetra-Furans				0.938	10.003	23.610		0.000				0.0399	
44	1st Func. Penta-Furans				0.976	10.003	27.040		0.000				0.0200	
45	Total Penta-Furans				0.976	10.003	29.275		0.000				0.0372	
46	Total Hexa-Furans				1.18	10.003	33.555		0.000				0.0638	
47	Total Hepta-Furans				1.13	10.003	37.835		0.000				0.0397	

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-10.qld

Last Altered: Tuesday, December 24, 2019 11:39:46 AM Pacific Standard Time

Printed: Tuesday, December 24, 2019 11:40:27 AM Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_10, Date: 18-Dec-2019, Time: 09:20:29, ID: 1903655-09 PDI-041SC-A-12-13-191010 11.8, Description: PDI-041SC-A-12-13-191010

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hepta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Tetra-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Furans function 1**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-10.qld

Last Altered: Tuesday, December 24, 2019 11:39:46 AM Pacific Standard Time  
Printed: Tuesday, December 24, 2019 11:40:27 AM Pacific Standard Time

Name: 191217K3\_10, Date: 18-Dec-2019, Time: 09:20:29, ID: 1903655-09 PDI-041SC-A-12-13-191010 11.8, Description: PDI-041SC-A-12-13-191010

**Penta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hepta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											



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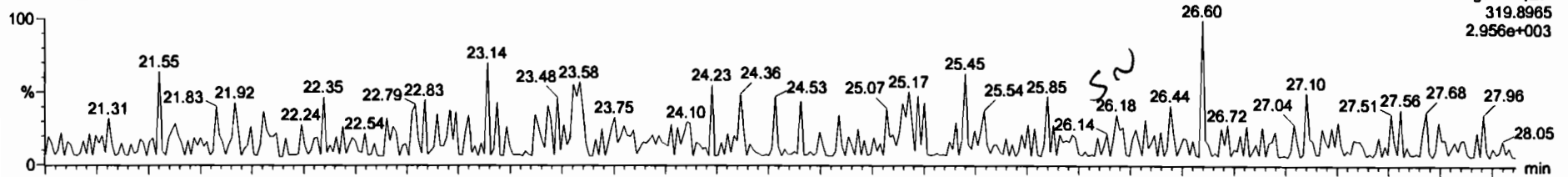
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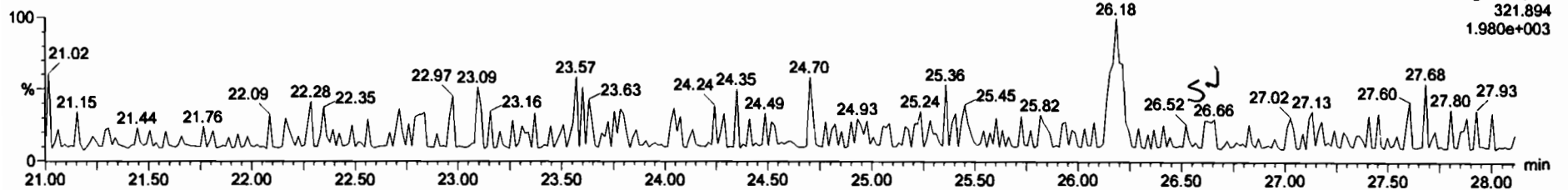
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2,3,7,8-TCDD

191217K3\_10

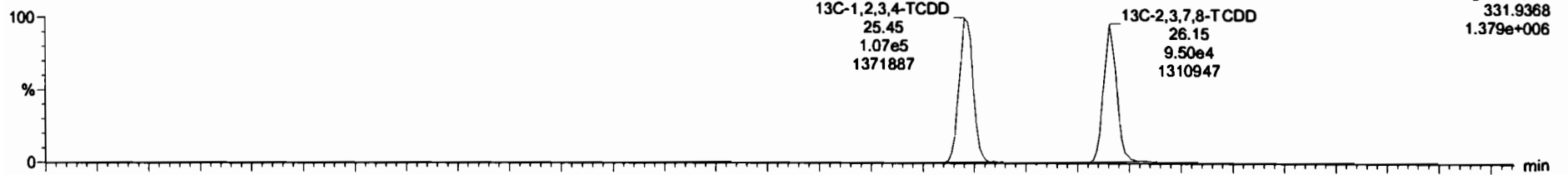


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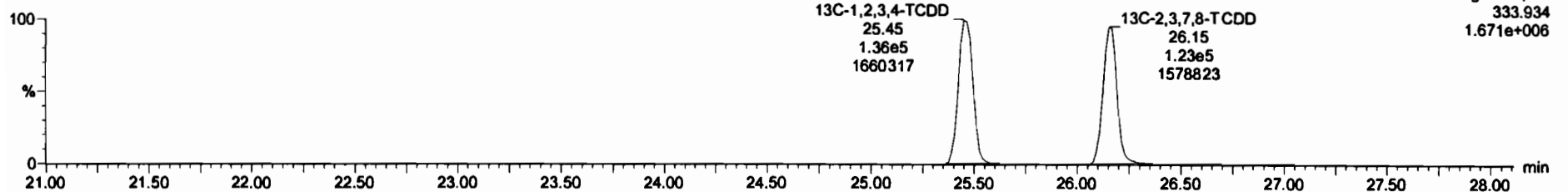


13C-2,3,7,8-TCDD

191217K3\_10



191217K3\_10



Dataset: Untitled

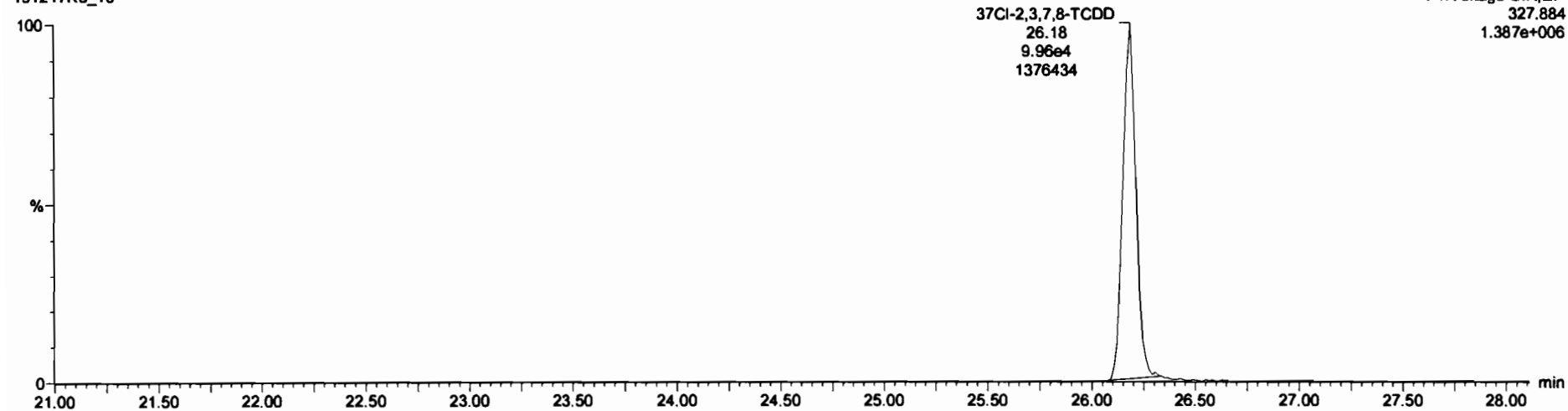
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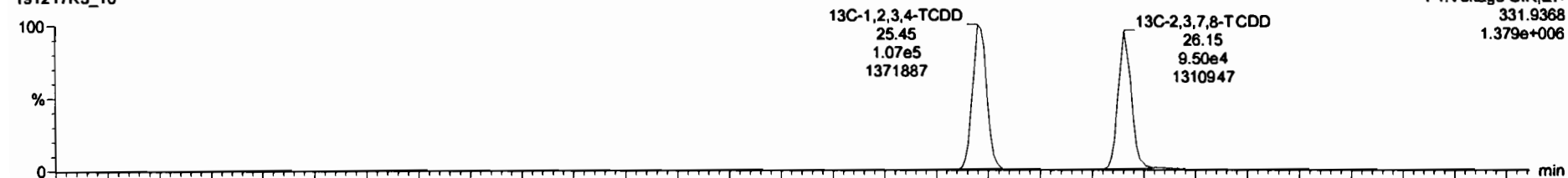
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191217K3\_10

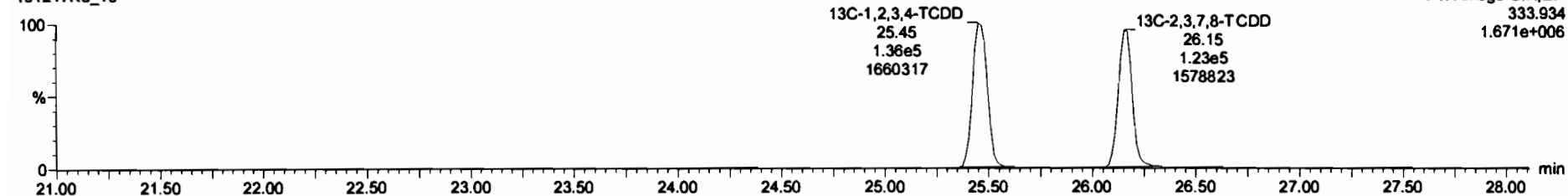


**13C-1,2,3,4-TCDD**

191217K3\_10



191217K3\_10



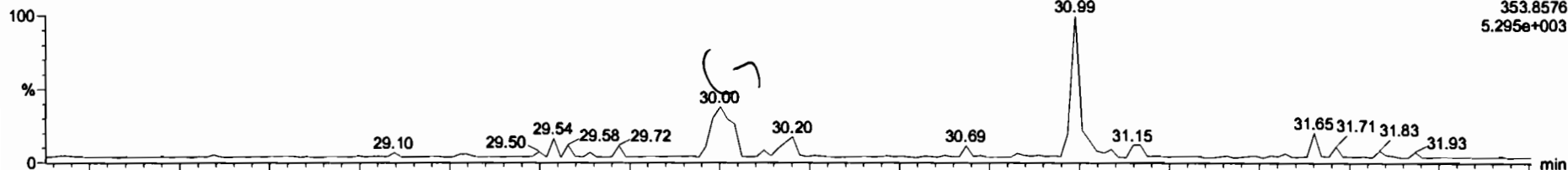
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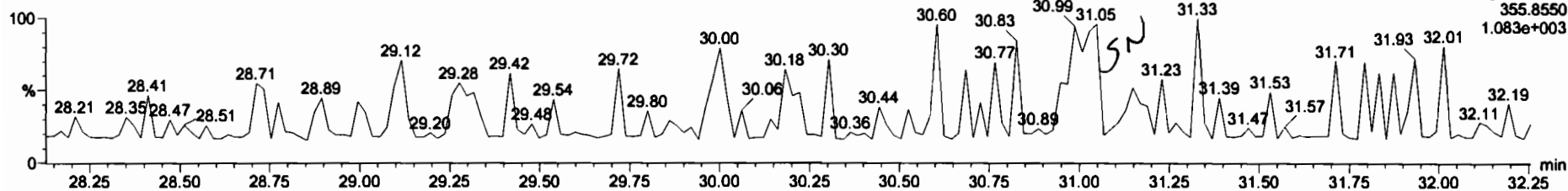
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1,2,3,7,8-PeCDD

191217K3\_10

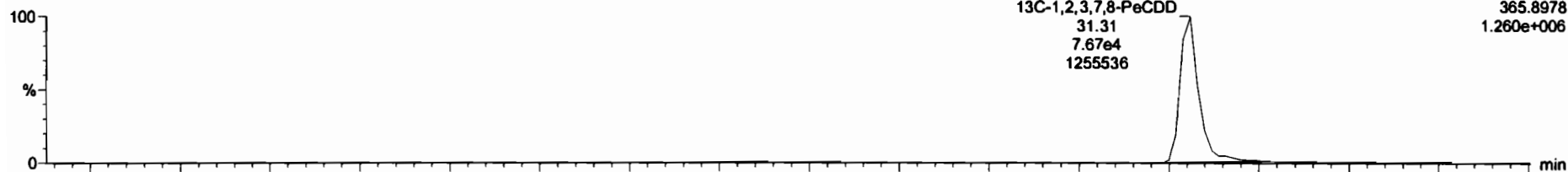


191217K3\_10

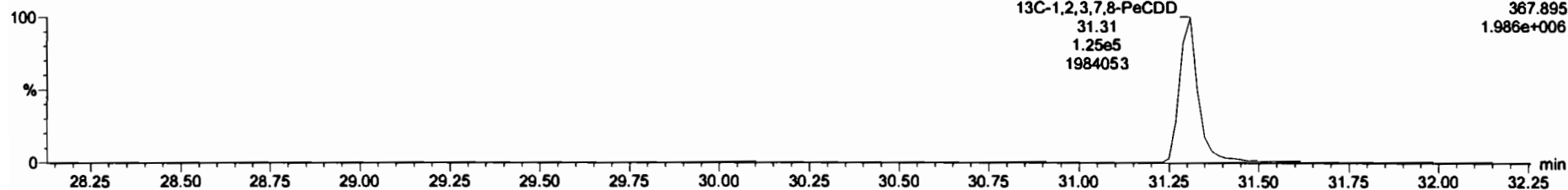


13C-1,2,3,7,8-PeCDD

191217K3\_10



191217K3\_10



Dataset: Untitled

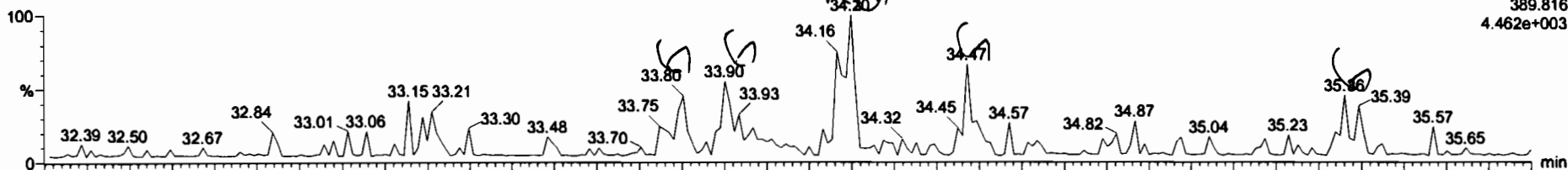
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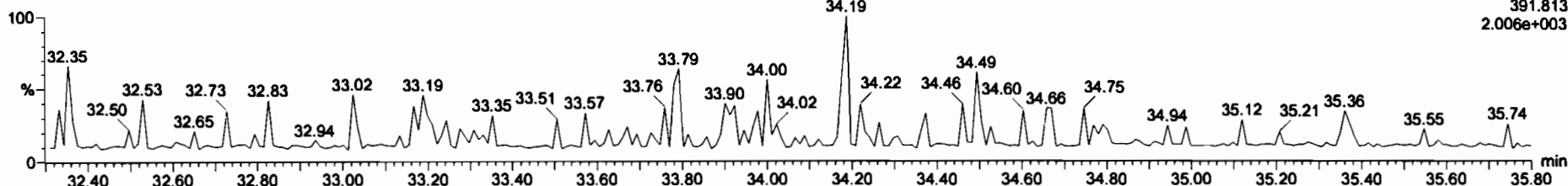
Name: 191217K3\_10, Date: 18-Dec-2019, Time: 09:20:29, ID: 1903655-09 PDI-041SC-A-12-13-191010 11.8, Description: PDI-041SC-A-12-13-191010

1,2,3,4,7,8-HxCDD

191217K3\_10



191217K3\_10

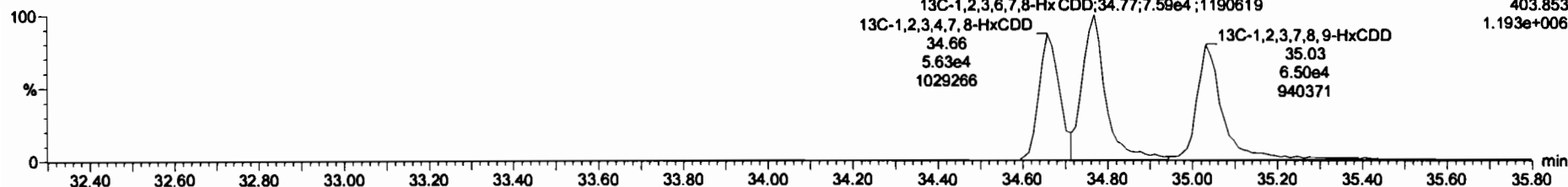


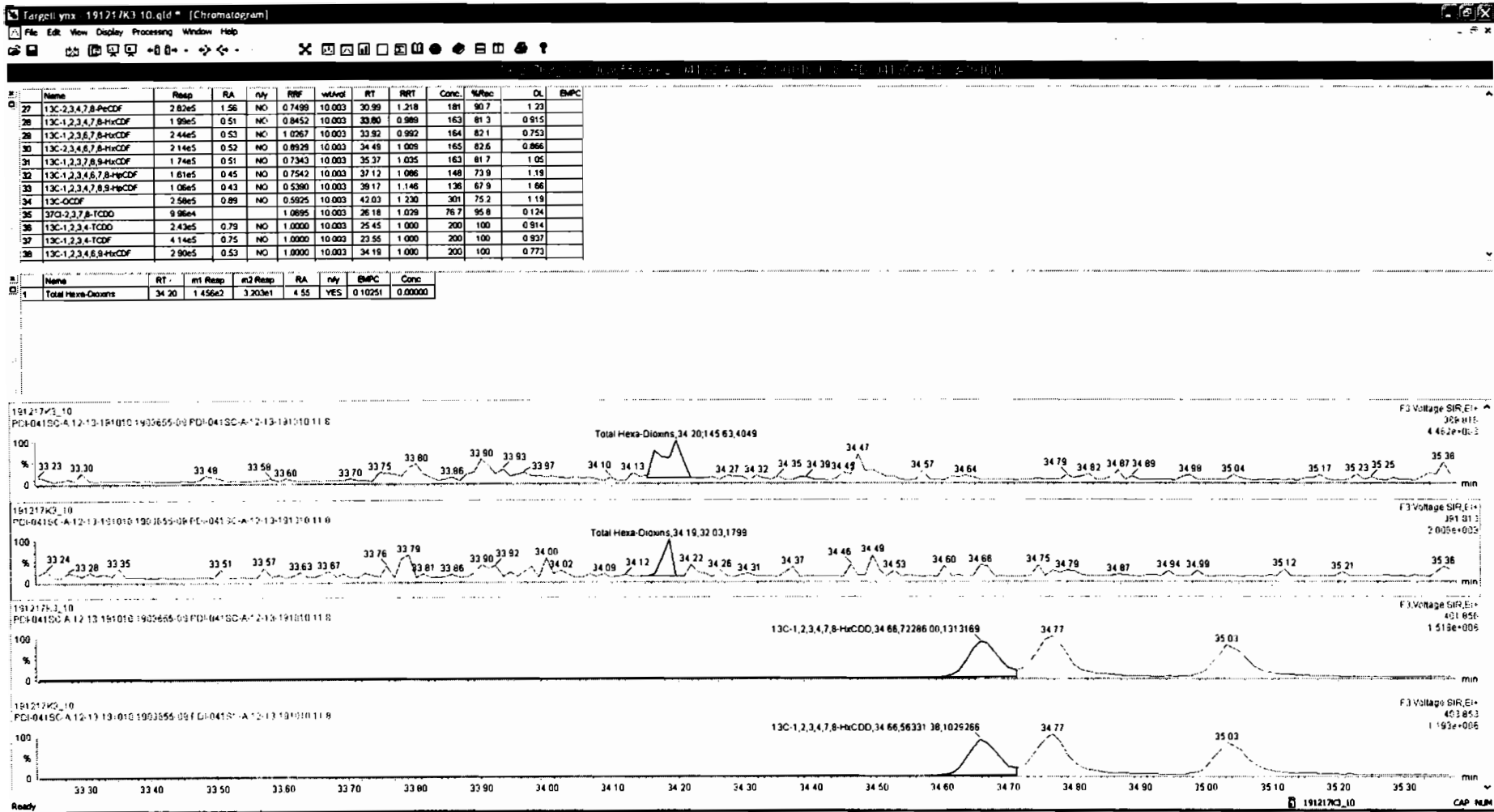
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191217K3\_10



191217K3\_10



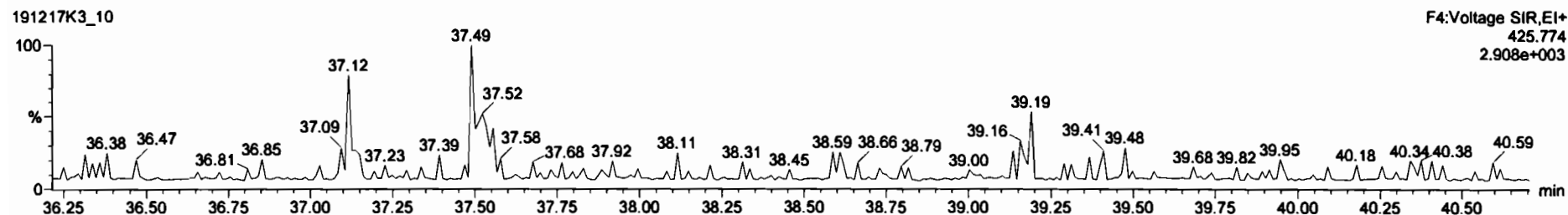
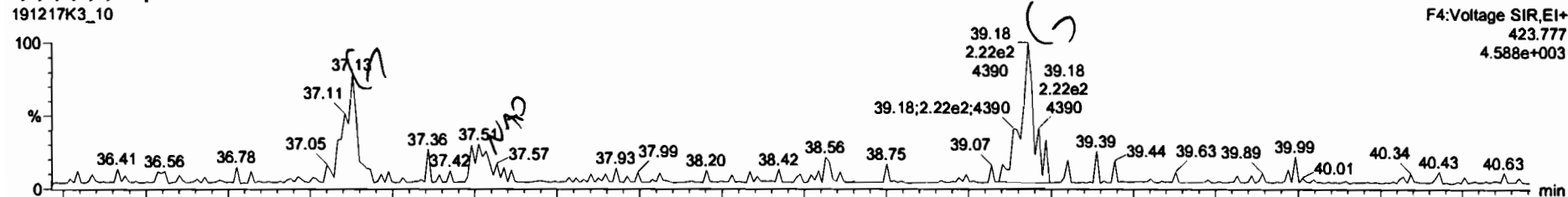


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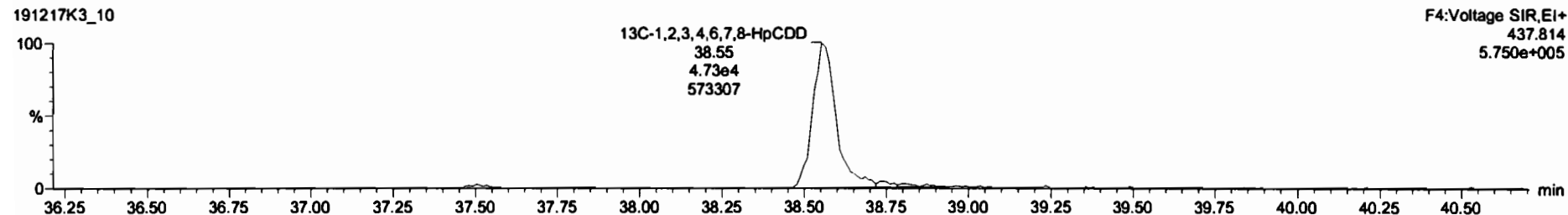
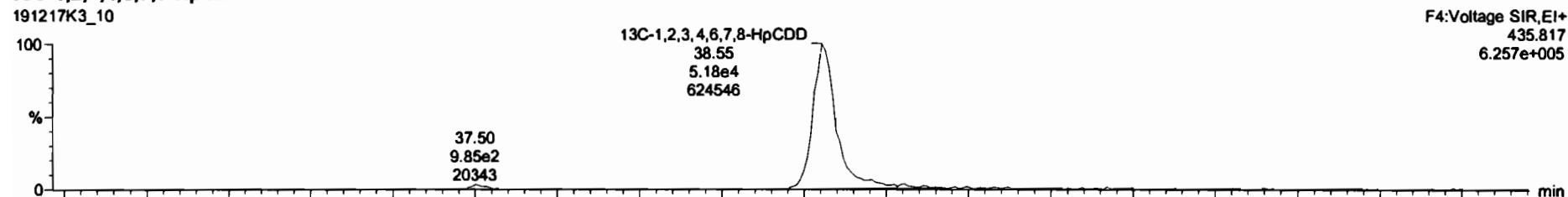
Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_10, Date: 18-Dec-2019, Time: 09:20:29, ID: 1903655-09 PDI-041SC-A-12-13-191010 11.8, Description: PDI-041SC-A-12-13-191010

1,2,3,4,6,7,8-HpCDD



13C-1,2,3,4,6,7,8-HpCDD

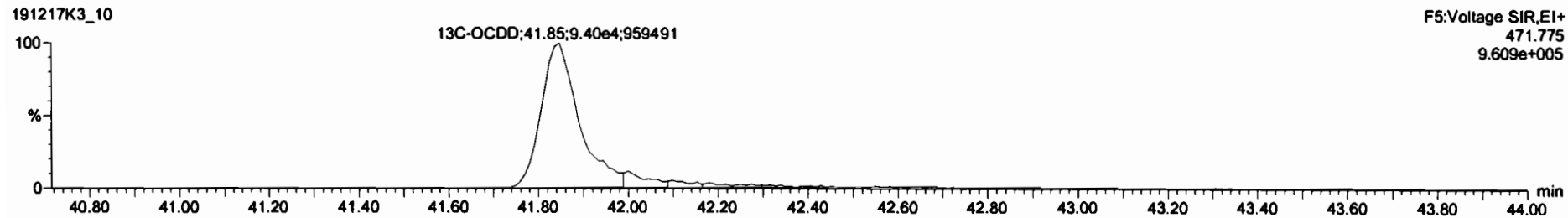
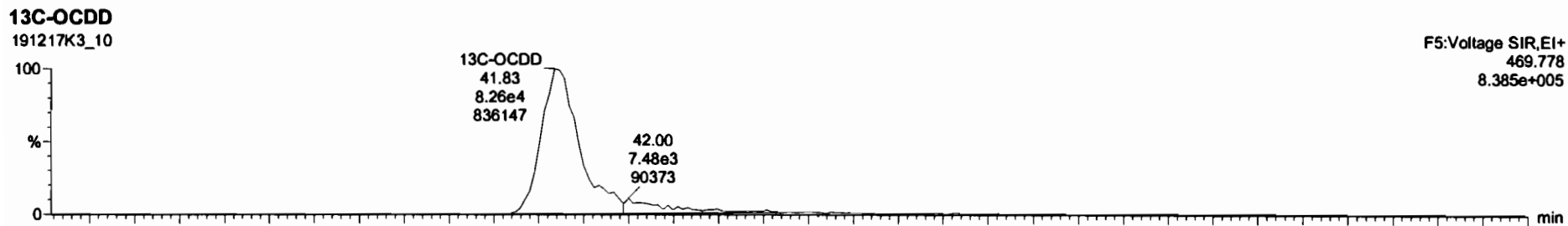
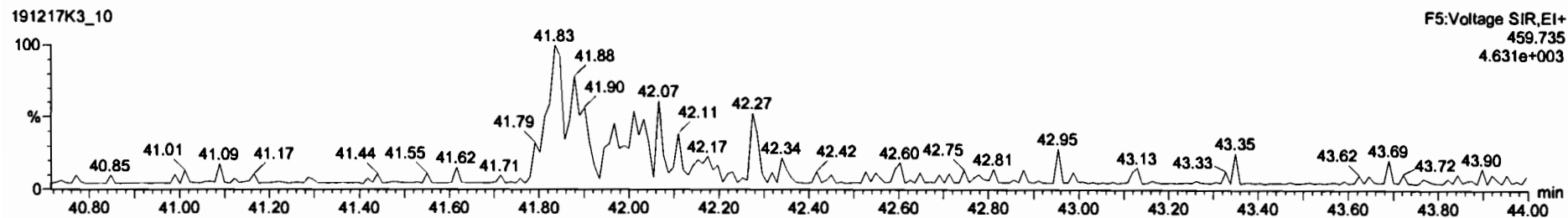
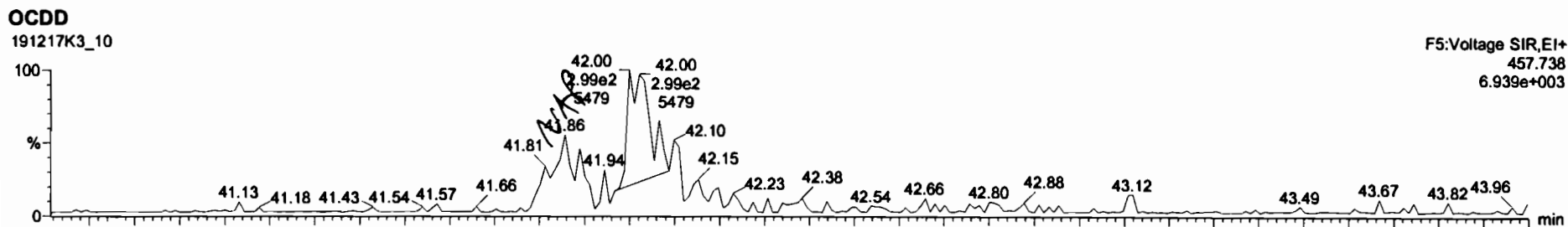


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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_10, Date: 18-Dec-2019, Time: 09:20:29, ID: 1903655-09 PDI-041SC-A-12-13-191010 11.8, Description: PDI-041SC-A-12-13-191010

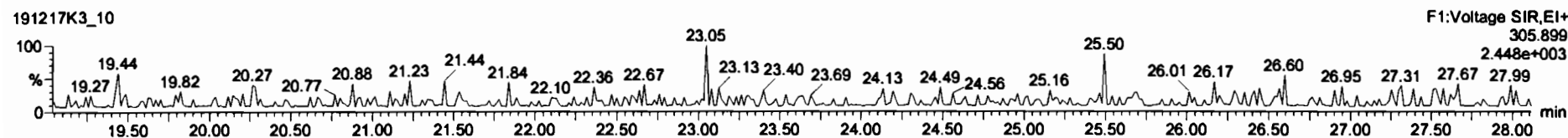
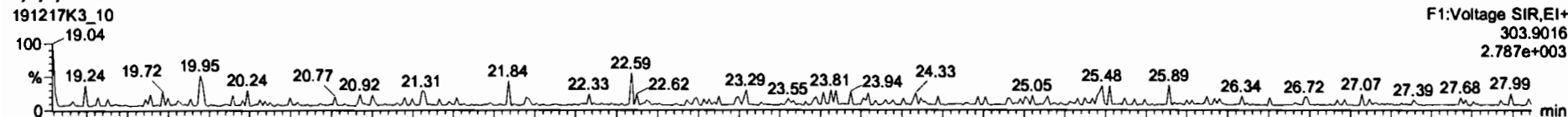


Dataset: Untitled

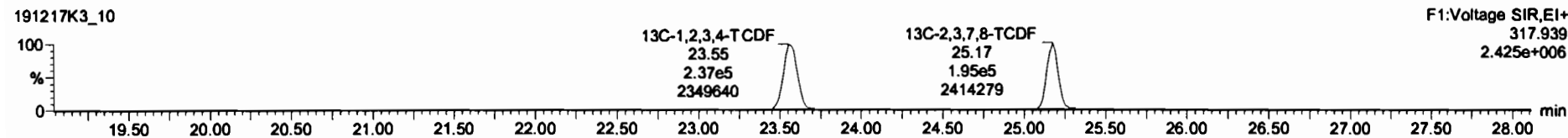
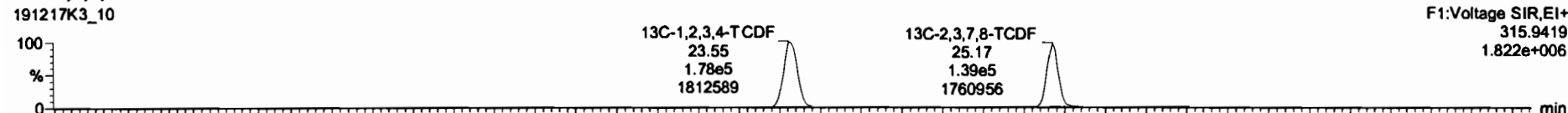
Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_10, Date: 18-Dec-2019, Time: 09:20:29, ID: 1903655-09 PDI-041SC-A-12-13-191010 11.8, Description: PDI-041SC-A-12-13-191010

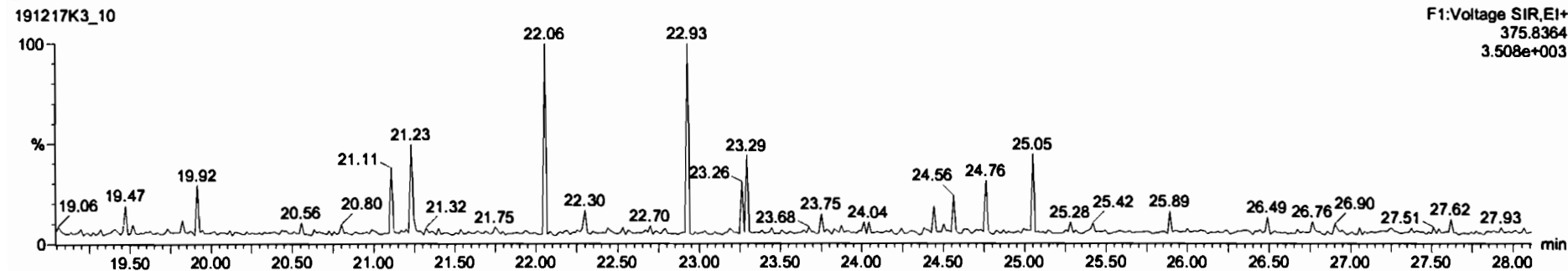
**2,3,7,8-TCDF**



**13C-2,3,7,8-TCDF**



**DPE1**





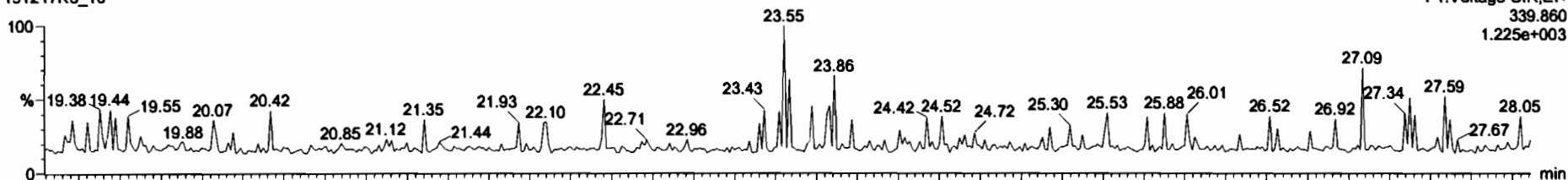
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

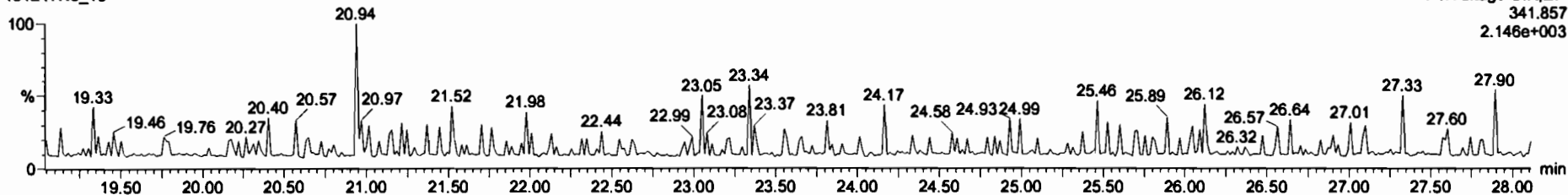
Name: 191217K3\_10, Date: 18-Dec-2019, Time: 09:20:29, ID: 1903655-09 PDI-041SC-A-12-13-191010 11.8, Description: PDI-041SC-A-12-13-191010

1st Func. Penta-Furans

191217K3\_10

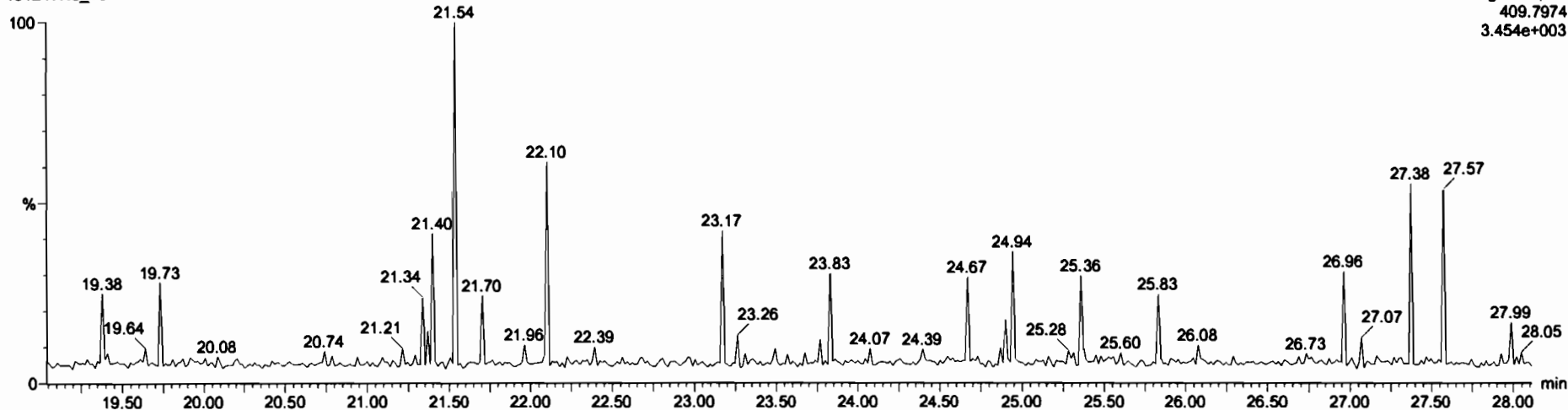


191217K3\_10



DPE6

191217K3\_10



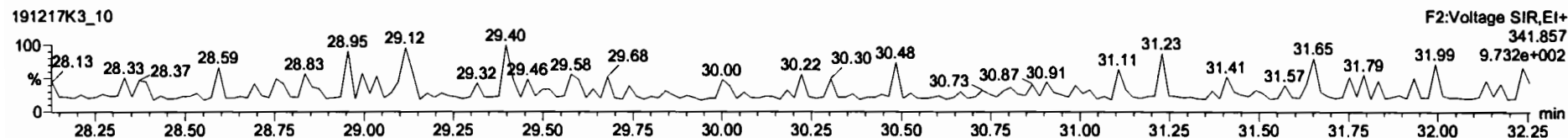
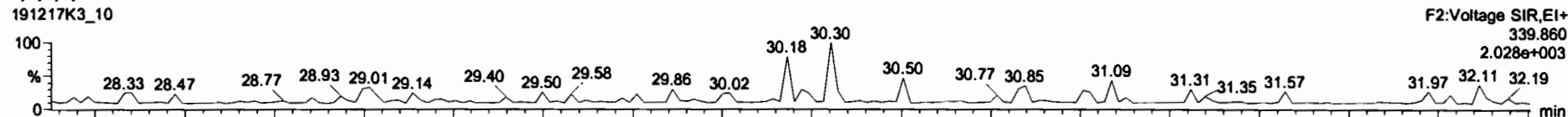
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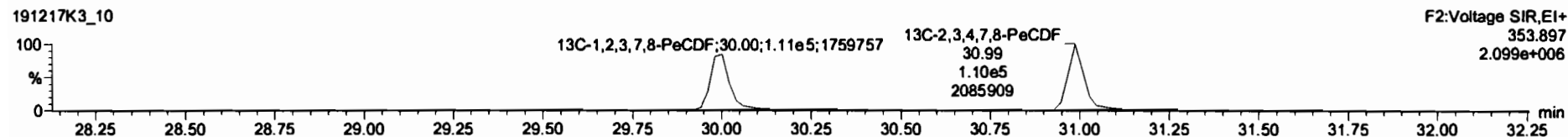
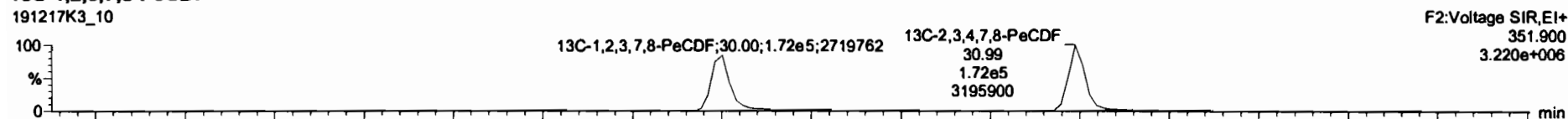
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_10, Date: 18-Dec-2019, Time: 09:20:29, ID: 1903655-09 PDI-041SC-A-12-13-191010 11.8, Description: PDI-041SC-A-12-13-191010

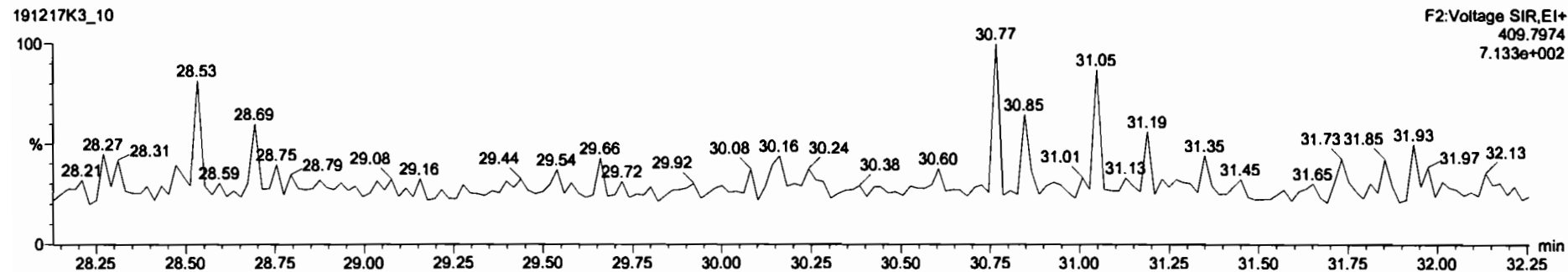
**1,2,3,7,8-PeCDF**



**13C-1,2,3,7,8-PeCDF**



**DPE2**



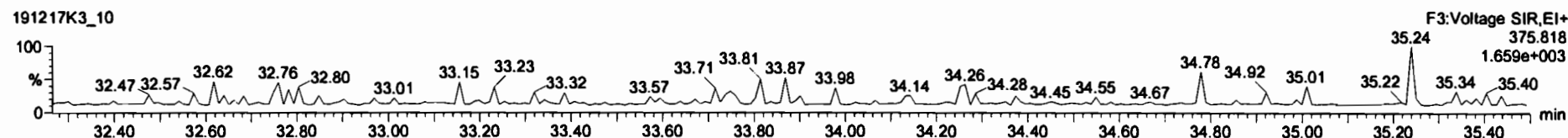
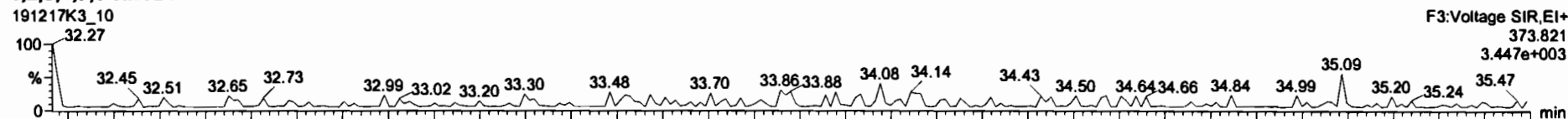
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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

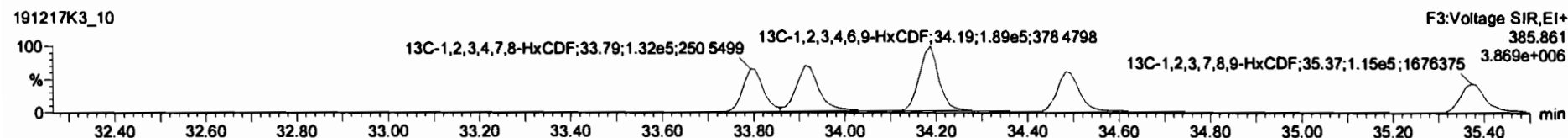
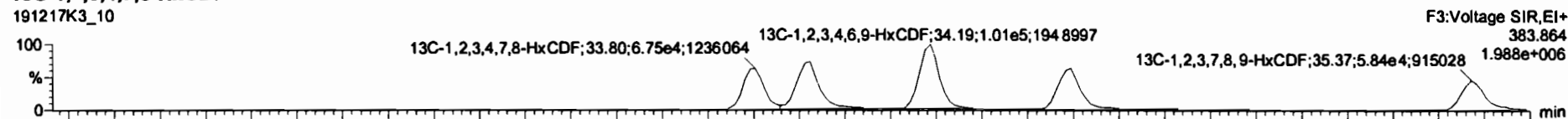
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Name: 191217K3\_10, Date: 18-Dec-2019, Time: 09:20:29, ID: 1903655-09 PDI-041SC-A-12-13-191010 11.8, Description: PDI-041SC-A-12-13-191010

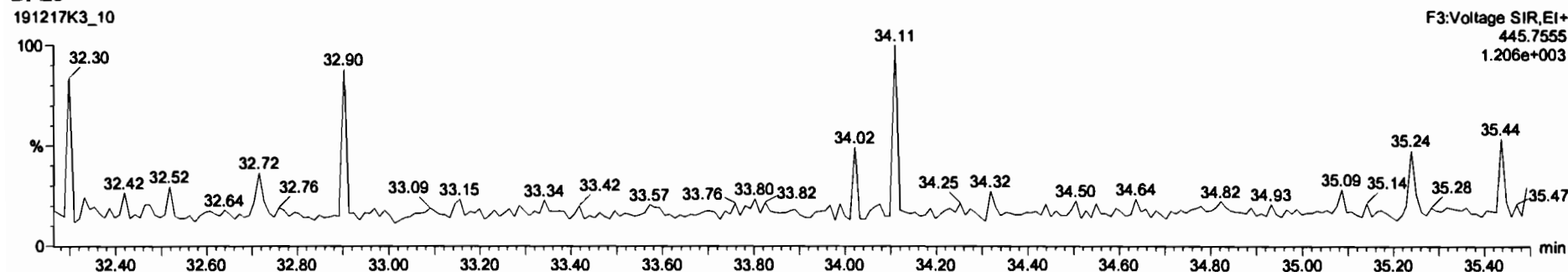
### 1,2,3,4,7,8-HxCDF



### 13C-1,2,3,4,7,8-HxCDF



### DPE3

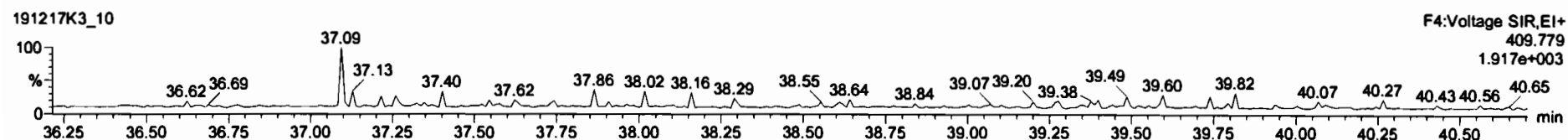
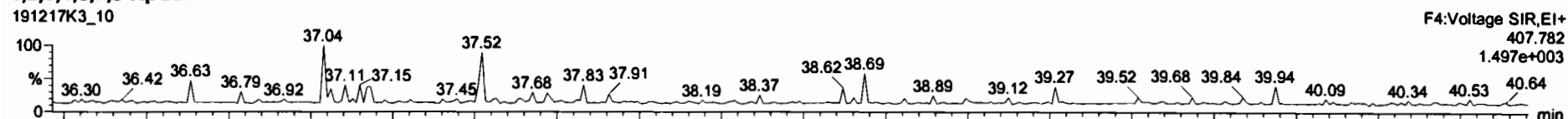


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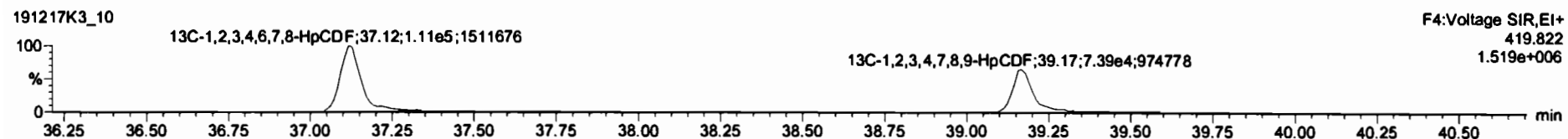
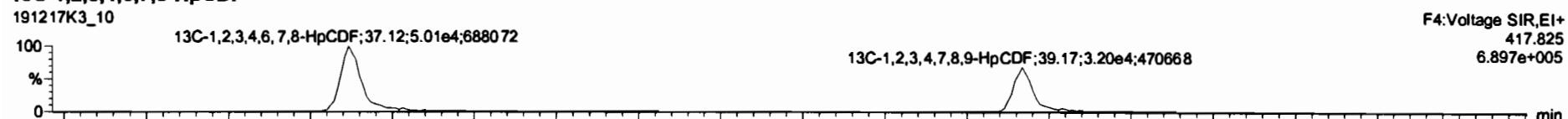
Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_10, Date: 18-Dec-2019, Time: 09:20:29, ID: 1903655-09 PDI-041SC-A-12-13-191010 11.8, Description: PDI-041SC-A-12-13-191010

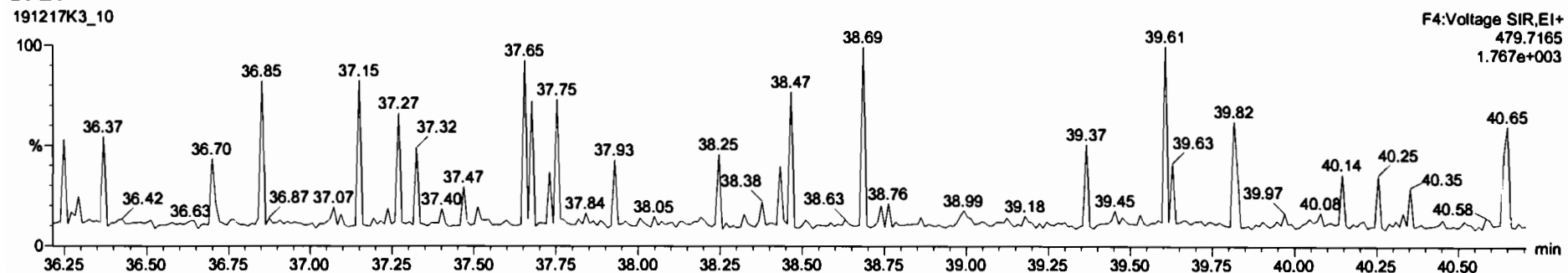
### 1,2,3,4,6,7,8-HpCDF



### 13C-1,2,3,4,6,7,8-HpCDF



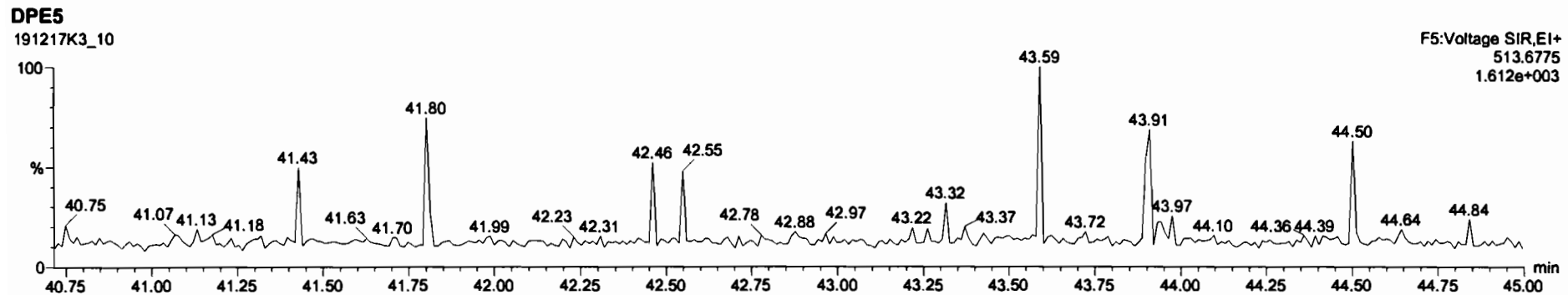
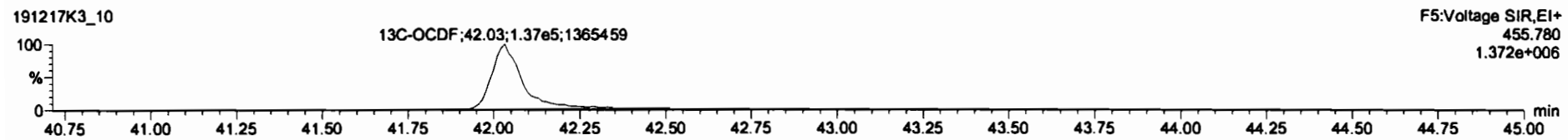
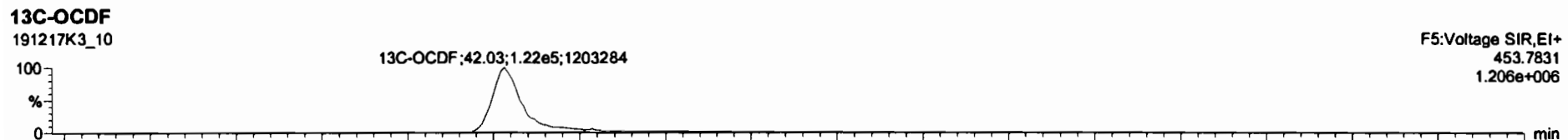
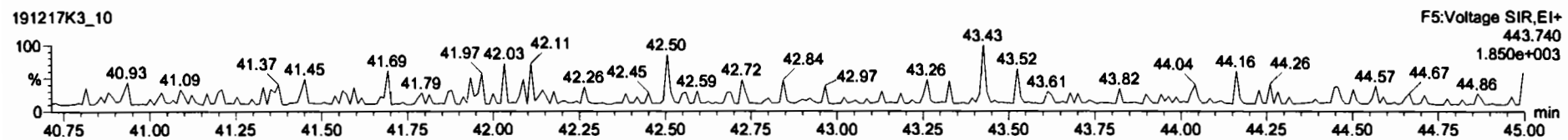
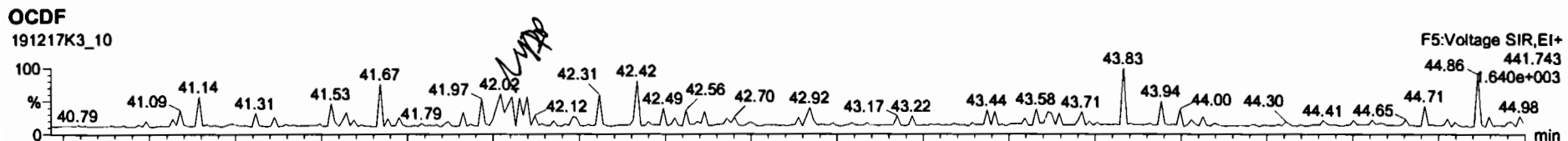
### DPE4



Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_10, Date: 18-Dec-2019, Time: 09:20:29, ID: 1903655-09 PDI-041SC-A-12-13-191010 11.8, Description: PDI-041SC-A-12-13-191010

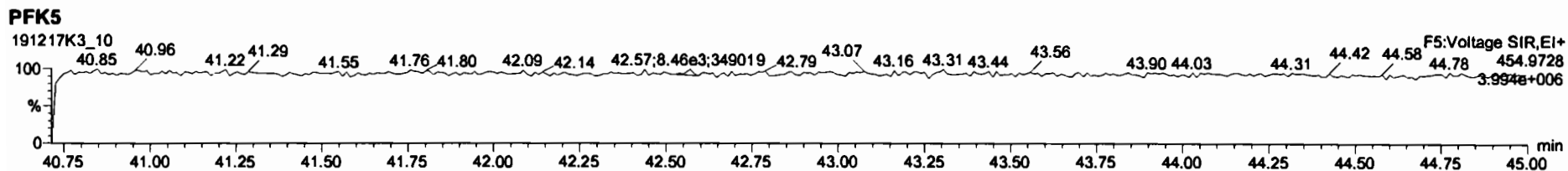
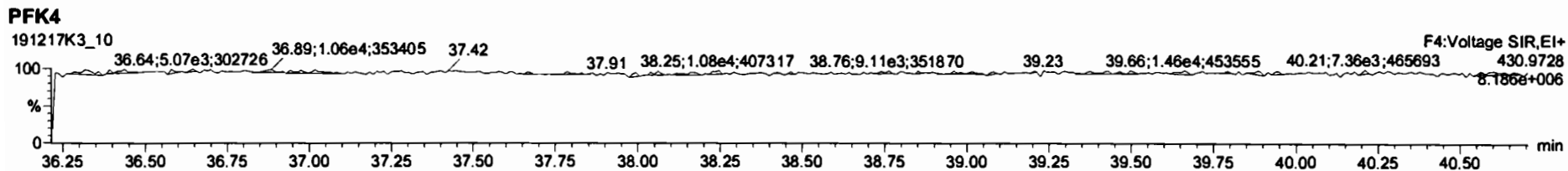
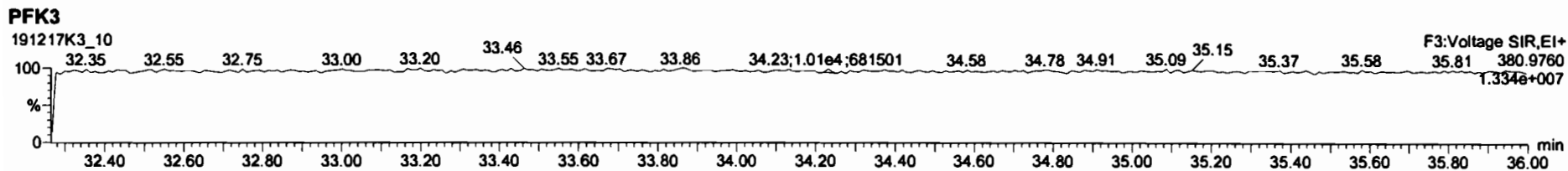
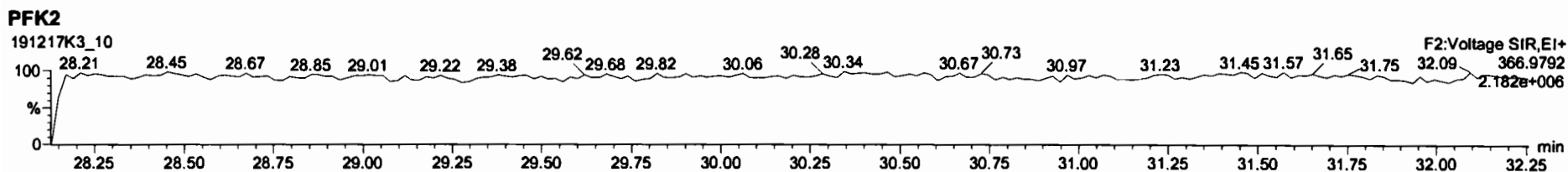
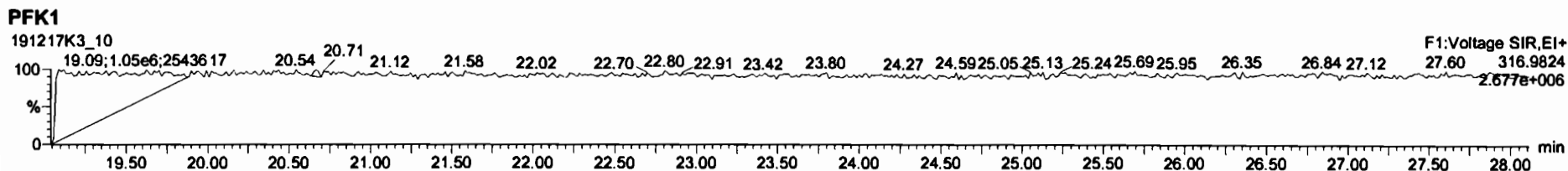


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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_10, Date: 18-Dec-2019, Time: 09:20:29, ID: 1903655-09 PDI-041SC-A-12-13-191010 11.8, Description: PDI-041SC-A-12-13-191010



Dataset: U:\VG11.PRO\Results\191217K3\191217K3-11.qld

Last Altered: Tuesday, December 24, 2019 11:53:14 AM Pacific Standard Time  
Printed: Tuesday, December 24, 2019 11:54:29 AM Pacific Standard Time

*HL 12.24.19*

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57  
Calibration: U:\VG11.PRO\CurveDB\ldb5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

*MU  
1/16/20*

Name: 191217K3\_11, Date: 18-Dec-2019, Time: 10:08:52, ID: 1903655-10 PDI-041SC-A-13-14.2-191010 14.47, Description: PDI-041SC-A-13-14.2-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.925	10.077	26.184		1.001				0.173	
2	1,2,3,7,8-PeCDD			NO	0.905	10.077	31.331		1.001				0.143	
3	1,2,3,4,7,8-HxCDD			NO	1.07	10.077	34.668		1.000				0.256	
4	1,2,3,6,7,8-HxCDD			NO	0.967	10.077	34.768		1.000				0.243	
5	1,2,3,7,8,9-HxCDD			NO	0.978	10.077	35.066		1.001				0.305	
6	1,2,3,4,6,7,8-HpCDD			NO	1.04	10.077	38.555		1.000				0.301	
7	OCDD	6.38e2	0.93	NO	0.972	10.077	41.824	41.83	1.000	1.000	1.2617		0.484	1.26
8	2,3,7,8-TCDF			NO	0.938	10.077	25.184		1.001				0.0755	
9	1,2,3,7,8-PeCDF			NO	0.976	10.077	30.022		1.001				0.0581	
10	2,3,4,7,8-PeCDF			NO	1.00	10.077	31.018		1.001				0.0539	
11	1,2,3,4,7,8-HxCDF			NO	1.24	10.077	33.791		1.000				0.142	
12	1,2,3,6,7,8-HxCDF			NO	1.10	10.077	33.922		1.000				0.145	
13	2,3,4,6,7,8-HxCDF			NO	1.18	10.077	34.516		1.001				0.152	
14	1,2,3,7,8,9-HxCDF			NO	1.07	10.077	35.371		1.000				0.231	
15	1,2,3,4,6,7,8-HpCDF			NO	1.13	10.077	37.153		1.001				0.112	
16	1,2,3,4,7,8,9-HpCDF			NO	1.26	10.077	39.168		1.000				0.160	
17	OCDF			NO	1.10	10.077	42.010		1.000				0.175	
18	13C-2,3,7,8-TCDD	3.25e5	0.77	NO	1.05	10.077	26.163	26.15	1.027	1.027	171.48	86.4	0.615	
19	13C-1,2,3,7,8-PeCDD	2.40e5	0.70	NO	0.743	10.077	31.309	31.31	1.230	1.229	179.22	90.3	0.585	
20	13C-1,2,3,4,7,8-HxCDD	1.49e5	1.24	NO	0.646	10.077	34.658	34.66	1.014	1.014	132.75	66.9	0.885	
21	13C-1,2,3,6,7,8-HxCDD	1.97e5	1.25	NO	0.777	10.077	34.757	34.77	1.017	1.017	145.84	73.5	0.736	
22	13C-1,2,3,7,8,9-HxCDD	1.57e5	1.19	NO	0.659	10.077	35.030	35.03	1.025	1.025	136.58	68.8	0.867	
23	13C-1,2,3,4,6,7,8-HpCDD	1.17e5	1.09	NO	0.534	10.077	38.531	38.54	1.127	1.127	126.40	63.7	1.31	
24	13C-OCDD	2.06e5	0.81	NO	0.470	10.077	41.813	41.82	1.223	1.223	252.53	63.6	1.39	
25	13C-2,3,7,8-TCDF	4.96e5	0.74	NO	0.977	10.077	25.175	25.16	0.989	0.988	170.11	85.7	0.596	
26	13C-1,2,3,7,8-PeCDF	3.46e5	1.55	NO	0.778	10.077	29.998	30.00	1.178	1.178	149.32	75.2	0.953	
27	13C-2,3,4,7,8-PeCDF	3.38e5	1.56	NO	0.750	10.077	30.988	30.99	1.217	1.217	151.10	76.1	0.988	
28	13C-1,2,3,4,7,8-HxCDF	2.31e5	0.51	NO	0.845	10.077	33.796	33.79	0.989	0.988	157.02	79.1	1.54	
29	13C-1,2,3,6,7,8-HxCDF	2.84e5	0.54	NO	1.03	10.077	33.913	33.91	0.992	0.992	159.42	80.3	1.26	
30	13C-2,3,4,6,7,8-HxCDF	2.45e5	0.53	NO	0.893	10.077	34.487	34.48	1.009	1.009	157.82	79.5	1.45	
31	13C-1,2,3,7,8,9-HxCDF	2.07e5	0.51	NO	0.734	10.077	35.389	35.37	1.035	1.035	162.26	81.8	1.77	

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-11.qld

Last Altered: Tuesday, December 24, 2019 11:53:14 AM Pacific Standard Time  
Printed: Tuesday, December 24, 2019 11:54:29 AM Pacific Standard Time

Name: 191217K3\_11, Date: 18-Dec-2019, Time: 10:08:52, ID: 1903655-10 PDI-041SC-A-13-14.2-191010 14.47, Description: PDI-041SC-A-13-14.2-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.06e5	0.47	NO	0.754	10.077	37.105	37.12	1.085	1.086	156.85	79.0	1.14	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.38e5	0.42	NO	0.539	10.077	39.133	39.17	1.145	1.146	146.83	74.0	1.59	
34	34 13C-OCDF	2.97e5	0.90	NO	0.593	10.077	42.001	42.01	1.229	1.229	288.41	72.7	1.38	
35	35 37Cl-2,3,7,8-TCDD	1.66e5			1.07	10.077	26.183	26.18	1.028	1.028	86.109	108	0.109	
36	36 13C-1,2,3,4-TCDD	3.58e5	0.82	NO	1.00	10.077	25.450	25.47	1.000	1.000	198.47	100	0.645	
37	37 13C-1,2,3,4-TCDF	5.92e5	0.76	NO	1.00	10.077	23.550	23.55	1.000	1.000	198.47	100	0.583	
38	38 13C-1,2,3,4,6,9-HxCDF	3.45e5	0.53	NO	1.00	10.077	34.160	34.19	1.000	1.000	198.47	100	1.30	
39	39 Total Tetra-Dioxins				0.925	10.077	24.620		0.000				0.112	
40	40 Total Penta-Dioxins				0.905	10.077	29.960		0.000				0.0611	
41	41 Total Hexa-Dioxins				0.967	10.077	33.635		0.000		0.18443		0.187	0.184
42	42 Total Hepta-Dioxins				1.04	10.077	38.800		0.000				0.175	
43	43 Total Tetra-Furans				0.938	10.077	23.610		0.000				0.0321	
44	44 1st Func. Penta-Furans				0.976	10.077	27.040		0.000				0.0144	
45	45 Total Penta-Furans				0.976	10.077	29.275		0.000				0.0242	
46	46 Total Hexa-Furans				1.18	10.077	33.555		0.000				0.0366	
47	47 Total Hepta-Furans				1.13	10.077	37.835		0.000				0.0703	



Dataset: U:\VG11.PRO\Results\191217K3\191217K3-11.qld

Last Altered: Tuesday, December 24, 2019 11:53:14 AM Pacific Standard Time

Printed: Tuesday, December 24, 2019 11:54:29 AM Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_11, Date: 18-Dec-2019, Time: 10:08:52, ID: 1903655-10 PDI-041SC-A-13-14.2-191010 14.47, Description: PDI-041SC-A-13-14.2-191010

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	Total Hexa-Dioxins	33.18	1.874e3	2.820e3	7.736e1	7.324e1	1.06	NO	1.506e2	0.18443	0.18443	0.187

**Hepta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Tetra-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Furans function 1**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-11.qld

Last Altered: Tuesday, December 24, 2019 11:53:14 AM Pacific Standard Time

Printed: Tuesday, December 24, 2019 11:54:29 AM Pacific Standard Time

Name: 191217K3\_11, Date: 18-Dec-2019, Time: 10:08:52, ID: 1903655-10 PDI-041SC-A-13-14.2-191010 14.47, Description: PDI-041SC-A-13-14.2-191010

**Penta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hepta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Dataset: Untitled

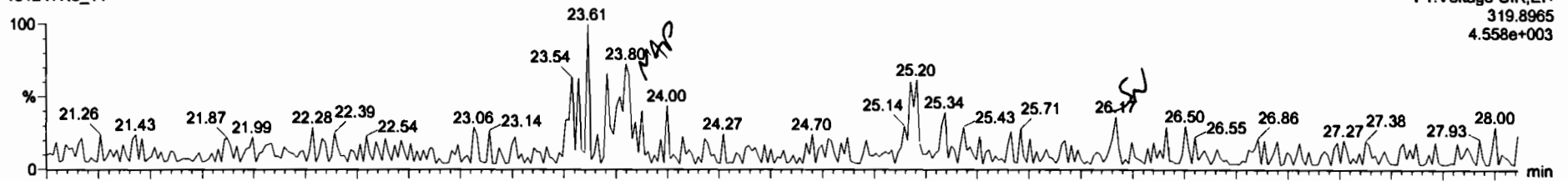
Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_11, Date: 18-Dec-2019, Time: 10:08:52, ID: 1903655-10 PDI-041SC-A-13-14.2-191010 14.47, Description: PDI-041SC-A-13-14.2-191010

**2,3,7,8-TCDD**

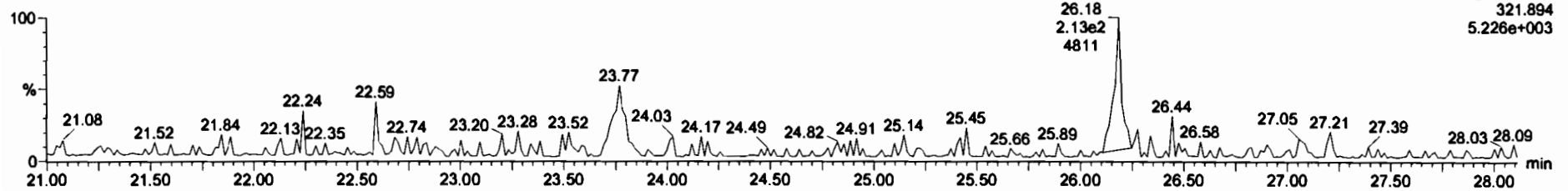
191217K3\_11

F1:Voltage SIR,EI+  
319.8965  
4.558e+003



191217K3\_11

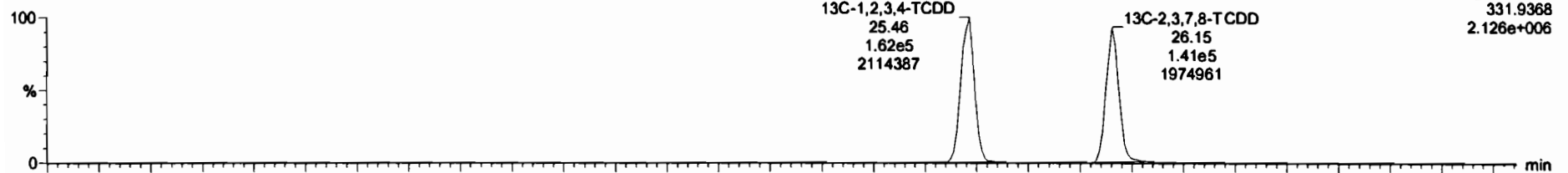
F1:Voltage SIR,EI+  
321.894  
5.226e+003



**13C-2,3,7,8-TCDD**

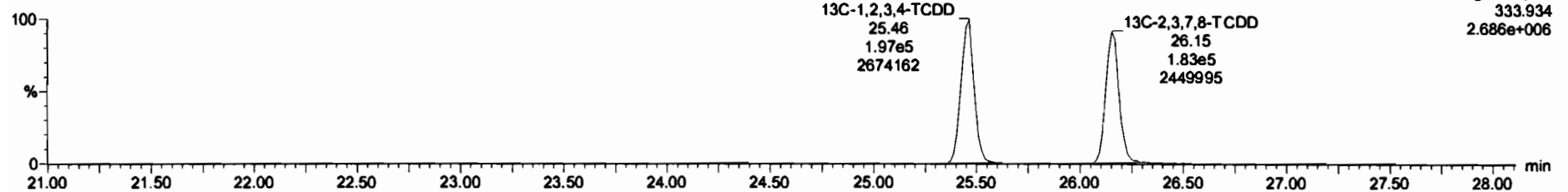
191217K3\_11

F1:Voltage SIR,EI+  
331.9368  
2.126e+006



191217K3\_11

F1:Voltage SIR,EI+  
333.934  
2.686e+006



Dataset: Untitled

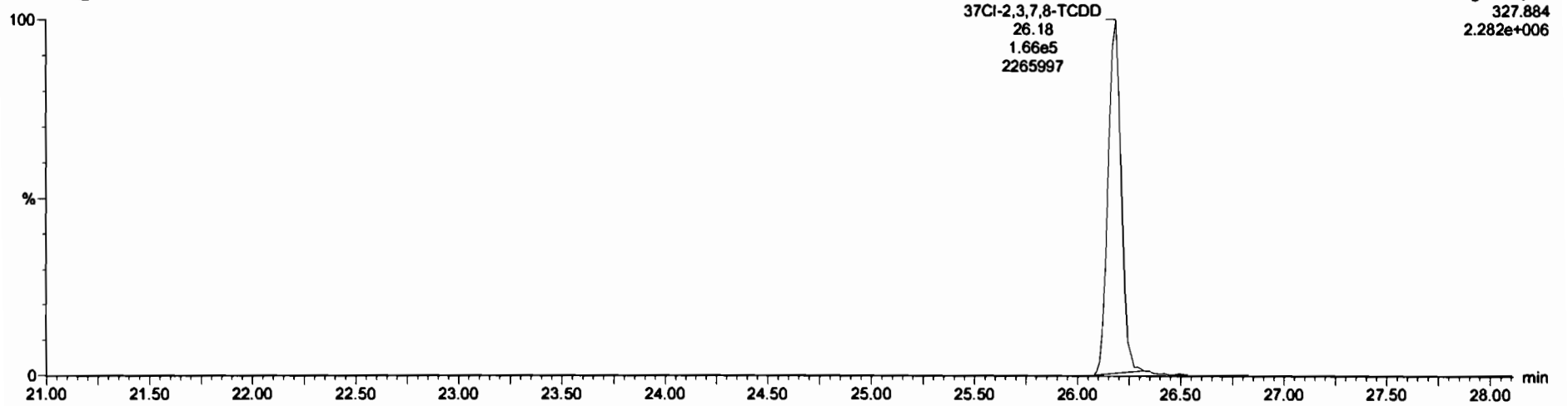
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

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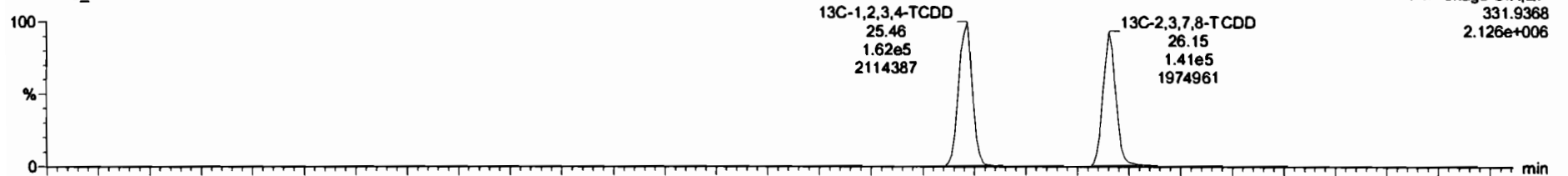
**37Cl-2,3,7,8-TCDD**

191217K3\_11

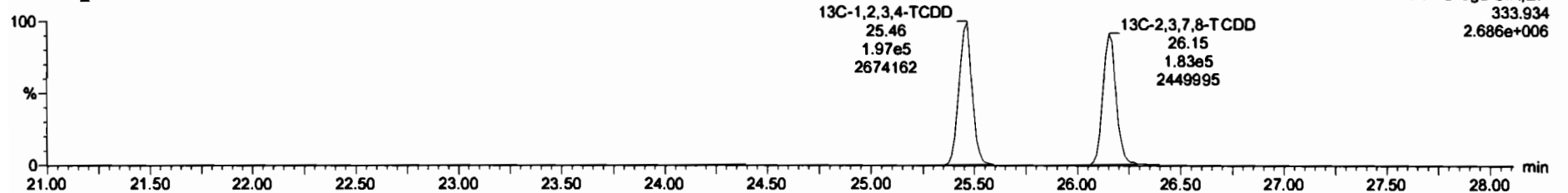


**13C-1,2,3,4-TCDD**

191217K3\_11



191217K3\_11



Dataset: Untitled

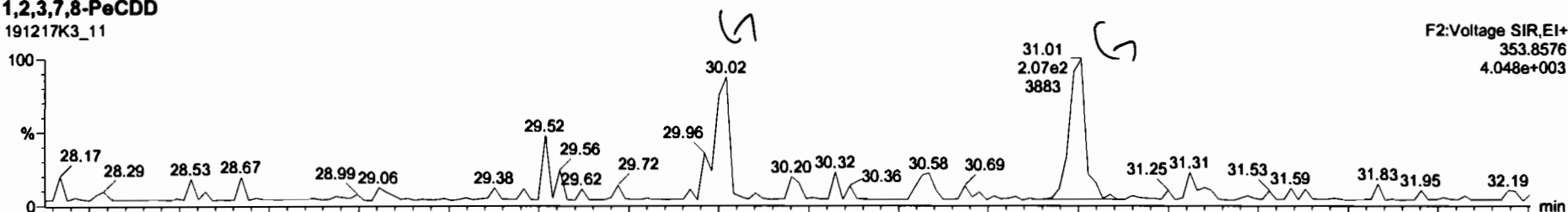
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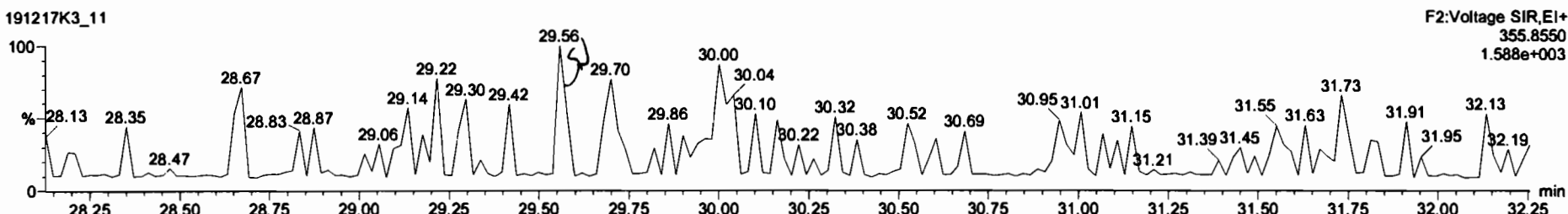
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**1,2,3,7,8-PeCDD**

191217K3\_11

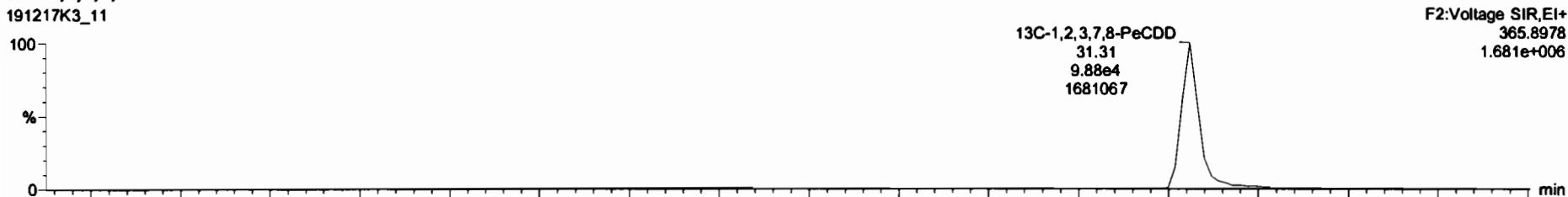


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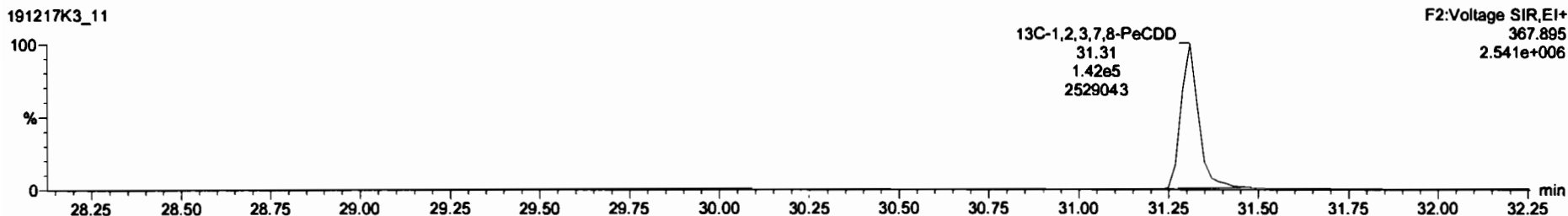


**13C-1,2,3,7,8-PeCDD**

191217K3\_11



191217K3\_11



Dataset: Untitled

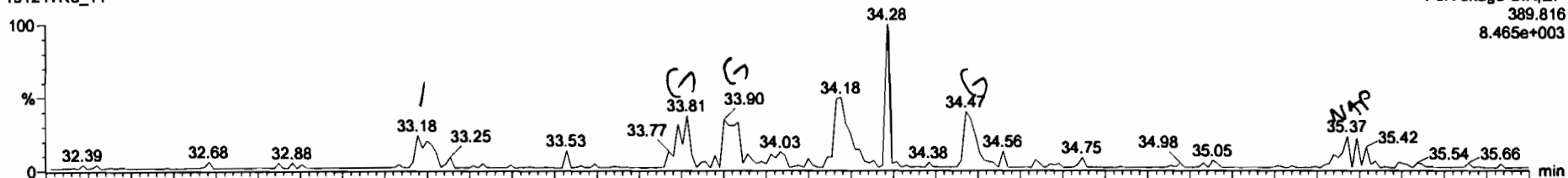
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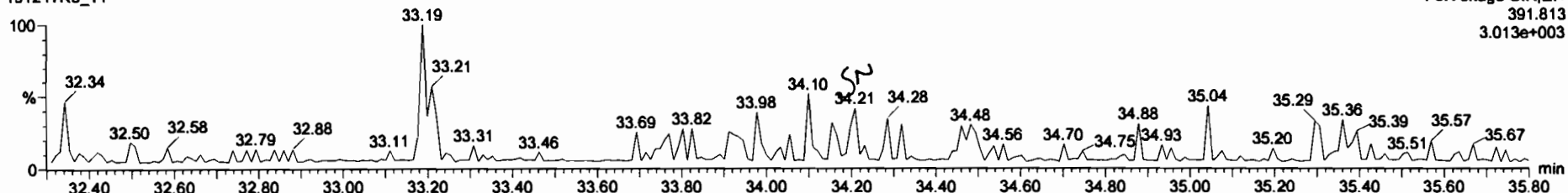
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1,2,3,4,7,8-HxCDD

191217K3\_11

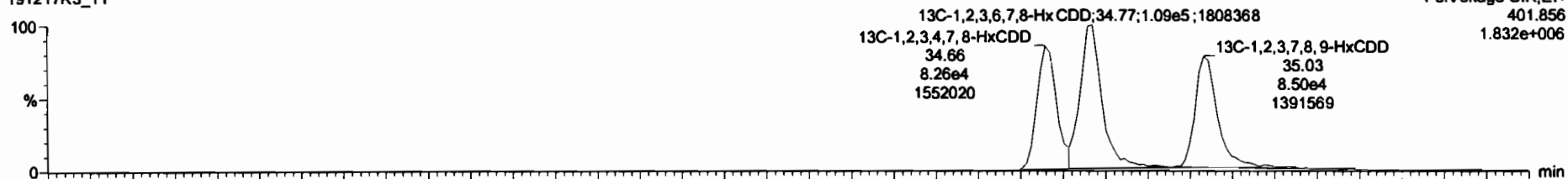


191217K3\_11

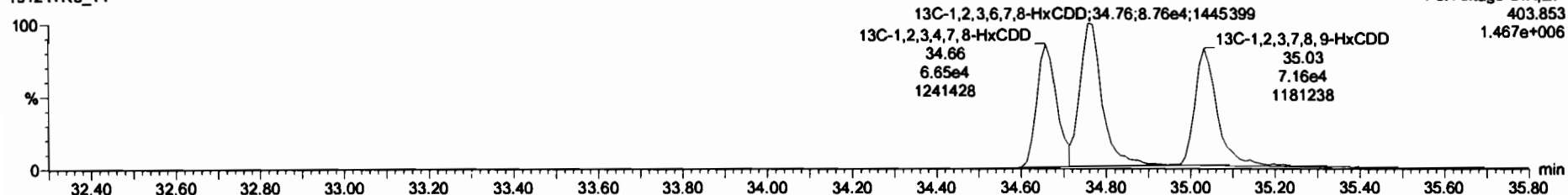


13C-1,2,3,4,7,8-HxCDD

191217K3\_11

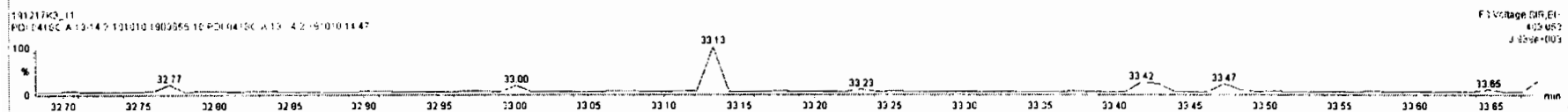
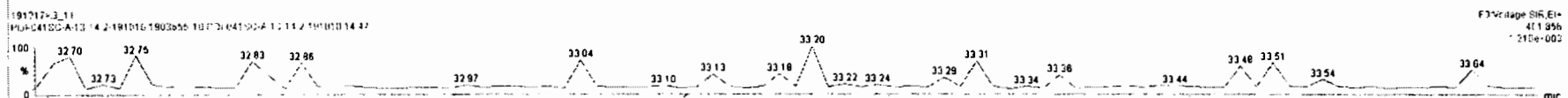
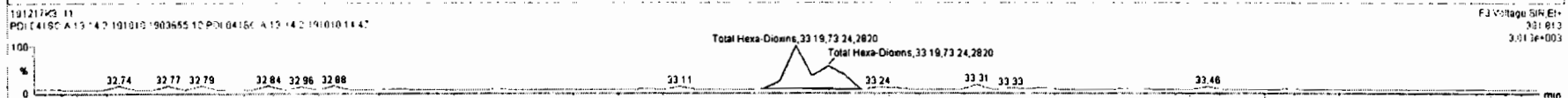
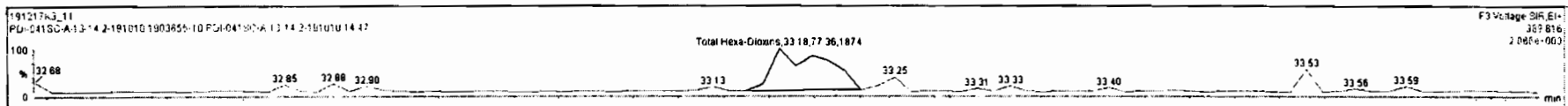


191217K3\_11



#	Name	Resp	RA	rvy	RRF	wAvg	RT	RRT	Conc	%Rec	DL	EMPC
28	13C-1,2,3,4,7,8-HxCDF	2.31e5	0.51	NO	0.8452	10.077	33.78	0.988	157	79.1	1.54	
29	13C-1,2,3,6,7,8-HxCDF	2.84e5	0.54	NO	1.0267	10.077	33.91	0.992	159	80.3	1.26	
30	13C-2,3,6,7,8-HxCDF	2.45e5	0.53	NO	0.8929	10.077	34.48	1.009	158	79.5	1.45	
31	13C-1,2,3,7,8,9-HxCDF	2.07e5	0.51	NO	0.7343	10.077	35.37	1.025	162	81.8	1.77	
32	13C-1,2,3,6,7,8-HpCDF	2.06e5	0.47	NO	0.7542	10.077	37.12	1.086	157	79.0	1.14	
33	13C-1,2,3,4,7,8,9-HpCDF	1.38e5	0.42	NO	0.5390	10.077	38.17	1.146	147	74.0	1.58	
34	13C-OCDF	2.87e5	0.90	NO	0.5925	10.077	42.01	1.229	286	72.7	1.38	
35	37Cl-2,3,7,8-TCDF	1.66e5		NO	1.0895	10.077	26.18	1.028	86.1	108	0.109	
36	13C-1,2,3,4-TCDF	3.58e5	0.82	NO	1.0000	10.077	25.47	1.000	198	100	0.845	
37	13C-1,2,3,4-TCDF	5.92e5	0.76	NO	1.0000	10.077	23.55	1.000	198	100	0.583	
38	13C-1,2,3,4,6,9-HxCDF	3.45e5	0.53	NO	1.0000	10.077	34.19	1.000	198	100	1.30	
39	Total Tetrachloro				0.9249	10.077					0.112	

#	Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc.
1	Total Hexa-Chloro	33.18	7.736e1	7.324e1	1.06	NO	0.18443	0.18443

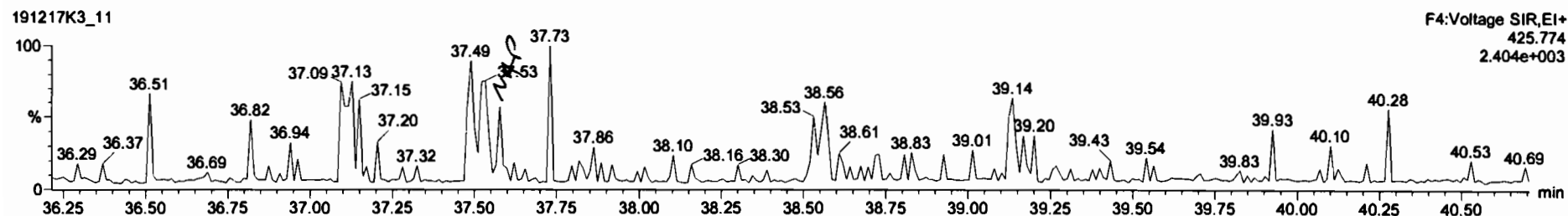
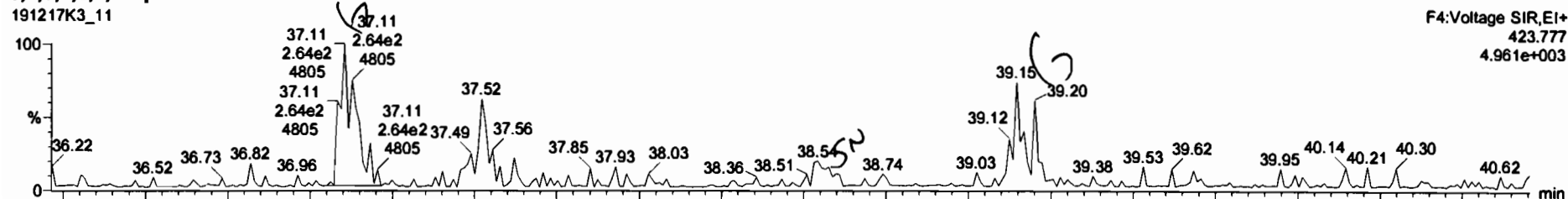


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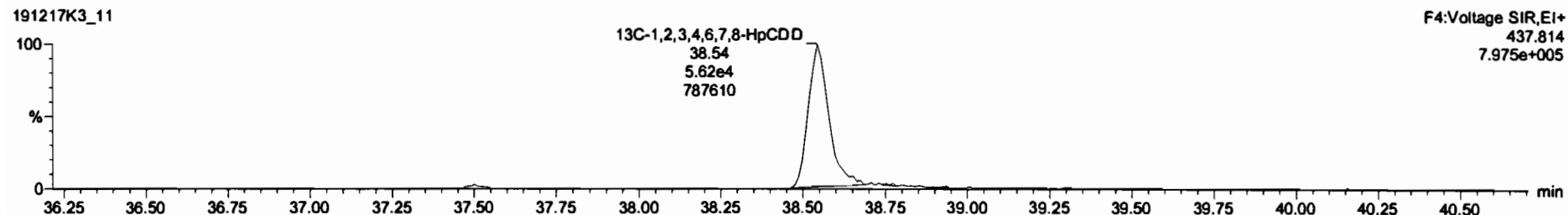
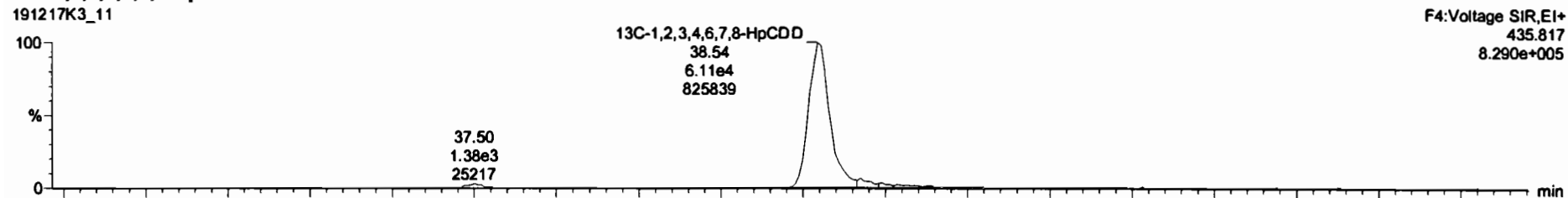
Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_11, Date: 18-Dec-2019, Time: 10:08:52, ID: 1903655-10 PDI-041SC-A-13-14.2-191010 14.47, Description: PDI-041SC-A-13-14.2-191010

1,2,3,4,6,7,8-HpCDD



13C-1,2,3,4,6,7,8-HpCDD



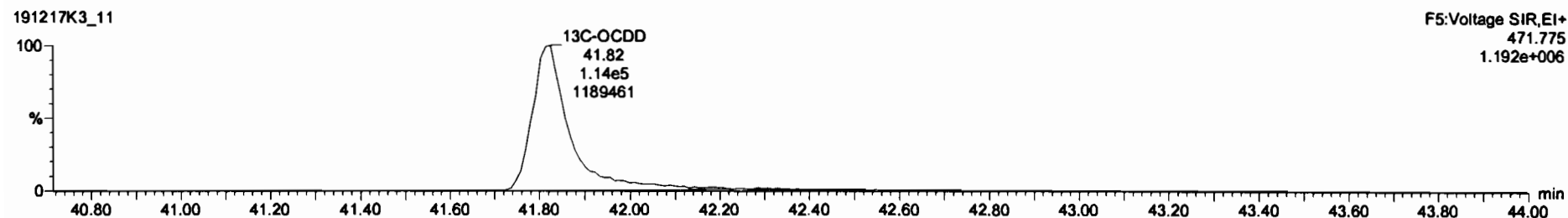
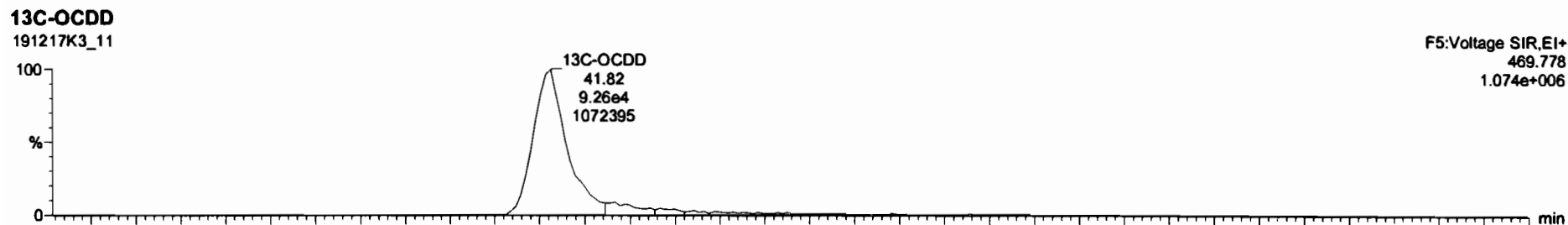
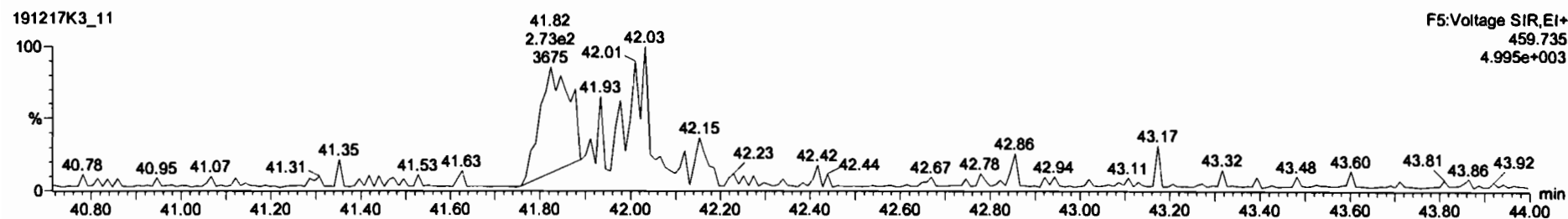
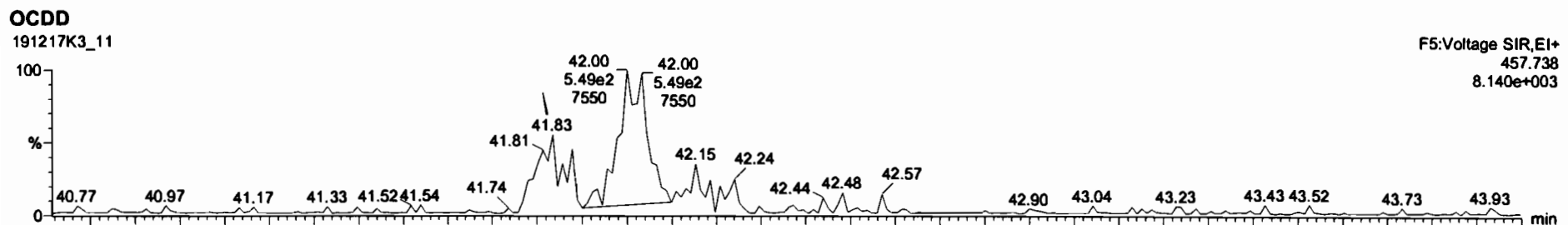


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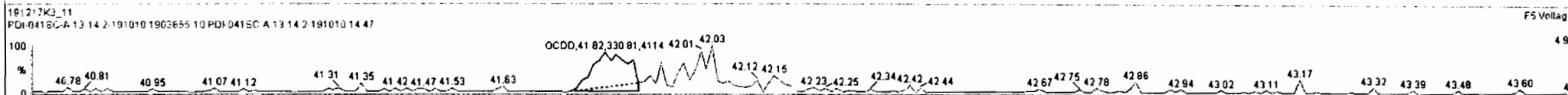
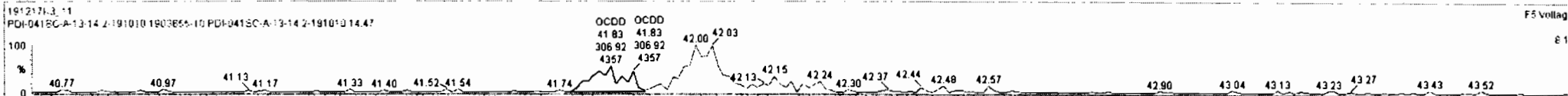
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191217K3-11 1903655-10 PDI-041SC-A-13-14 2-191010 14 47 PDI-041SC-A-13-14 2-191010

#I	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
6	1,2,3,4,6,7,8-HpCDD			NO	1.0375	10.077					0.301	
7	OCDD	6.39e2	0.93	NO	0.9718	10.077	41.83	1.000	1.26		0.484	1.26
8	2,3,7,8-TCDF			NO	0.9376	10.077					0.0755	
9	1,2,3,7,8-PeCDF			NO	0.9762	10.077					0.0581	
10	2,3,4,7,8-PeCDF			NO	1.0049	10.077					0.0539	
11	1,2,3,4,7,8-HxCDF			NO	1.2434	10.077					0.142	
12	1,2,3,6,7,8-HxCDF			NO	1.0950	10.077					0.145	
13	2,3,4,6,7,8-HxCDF			NO	1.1806	10.077					0.152	
14	1,2,3,7,8,9-HxCDF			NO	1.0728	10.077					0.231	
15	1,2,3,4,6,7,8-HpCDF			NO	1.1300	10.077					0.112	
16	1,2,3,4,7,8,9-HpCDF			NO	1.2609	10.077					0.160	
17	OCDF			NO	1.1025	10.077					0.175	

#I	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1								



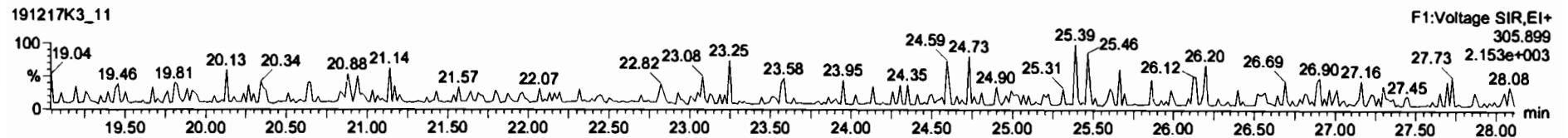
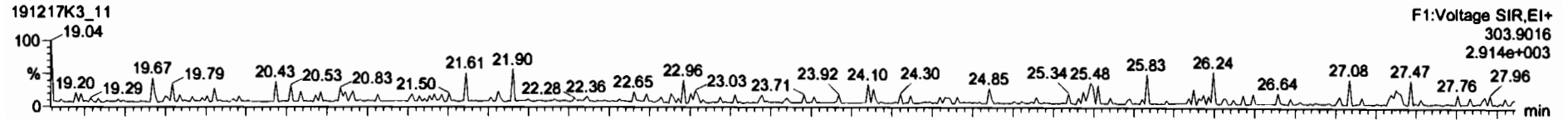
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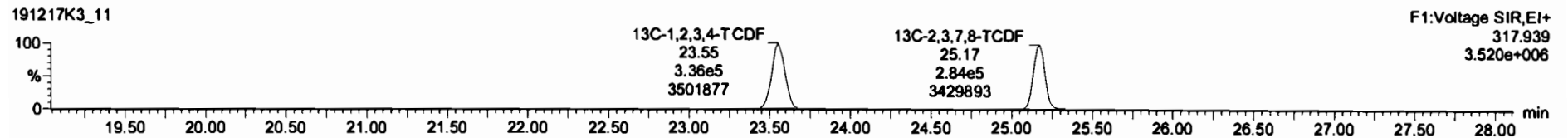
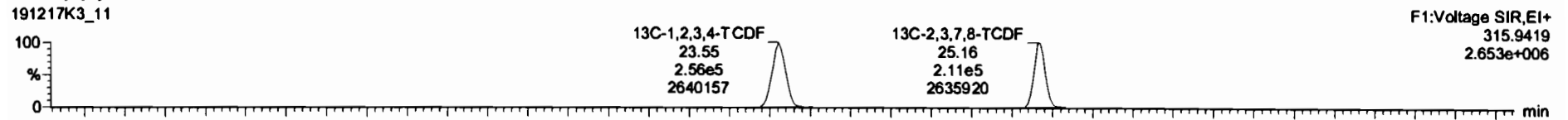
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Name: 191217K3\_11, Date: 18-Dec-2019, Time: 10:08:52, ID: 1903655-10 PDI-041SC-A-13-14.2-191010 14.47, Description: PDI-041SC-A-13-14.2-191010

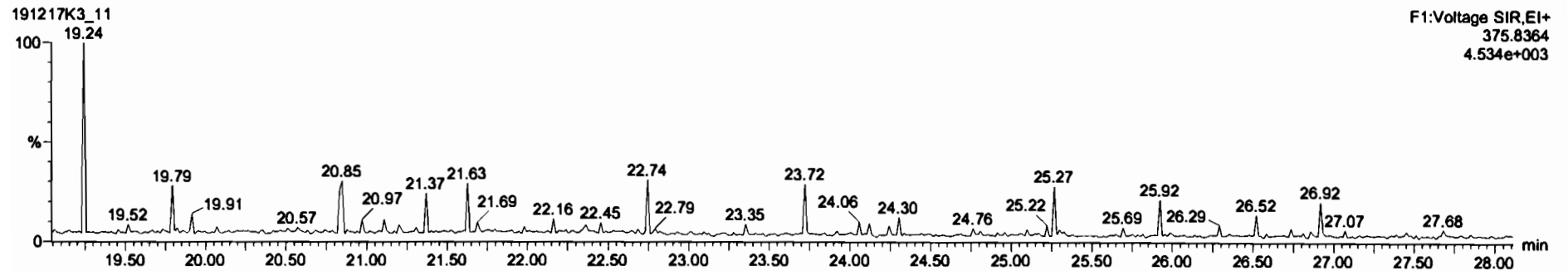
**2,3,7,8-TCDF**



**13C-2,3,7,8-TCDF**



**DPE1**



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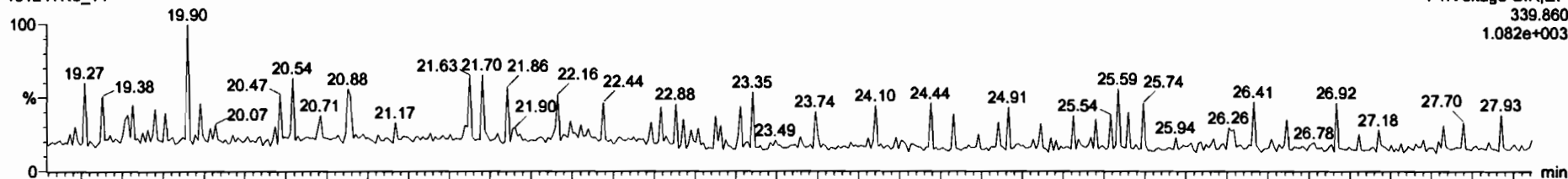
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_11, Date: 18-Dec-2019, Time: 10:08:52, ID: 1903655-10 PDI-041SC-A-13-14.2-191010 14.47, Description: PDI-041SC-A-13-14.2-191010

1st Func. Penta-Furans

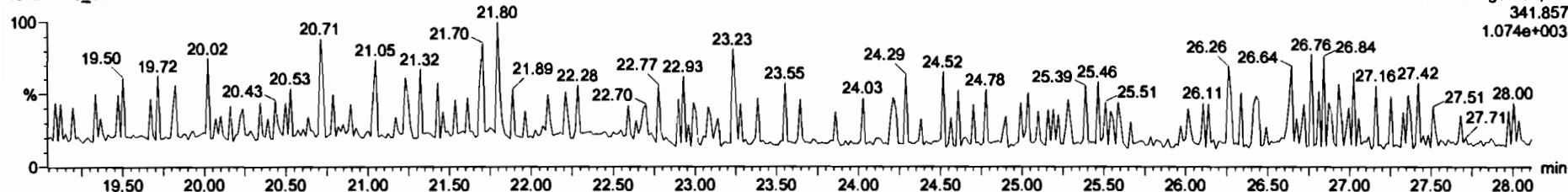
191217K3\_11

F1:Voltage SIR,EI+  
339.860  
1.082e+003



191217K3\_11

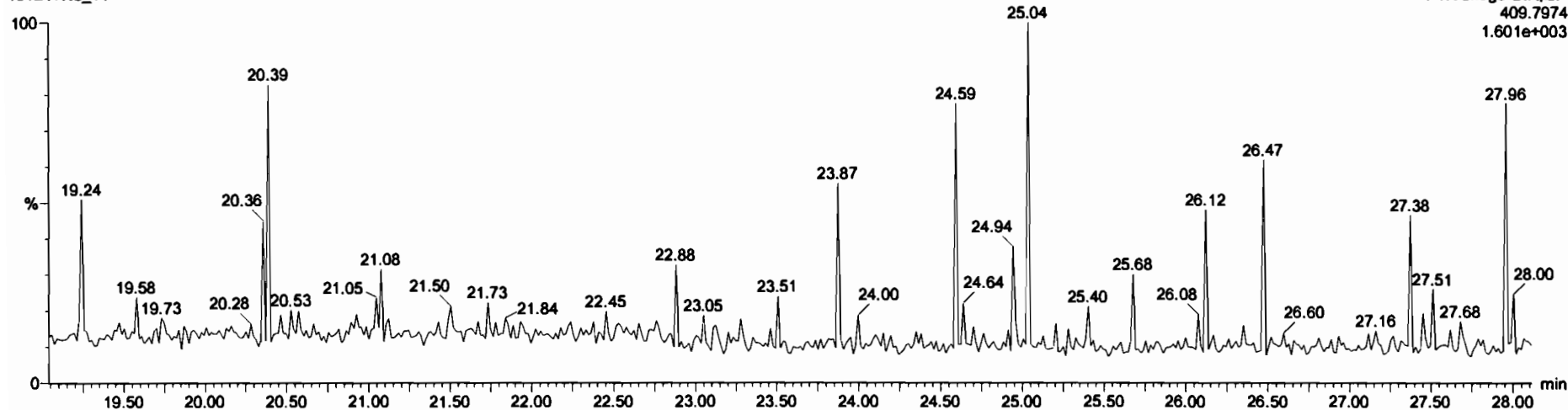
F1:Voltage SIR,EI+  
341.857  
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DPE6

191217K3\_11

F1:Voltage SIR,EI+  
409.7974  
1.601e+003



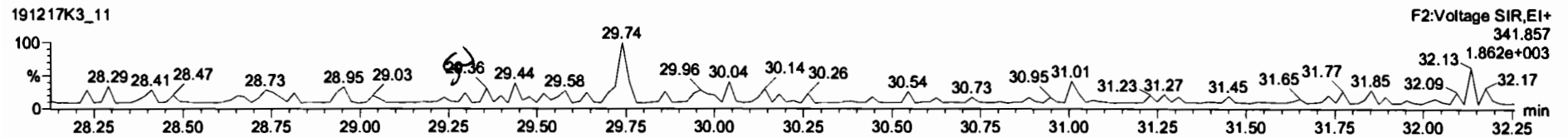
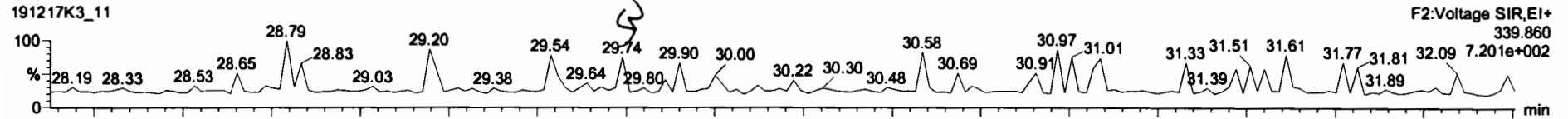
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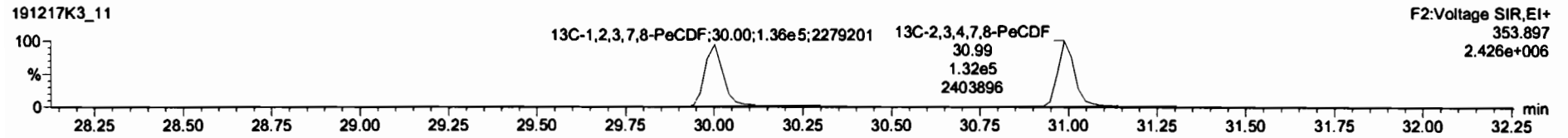
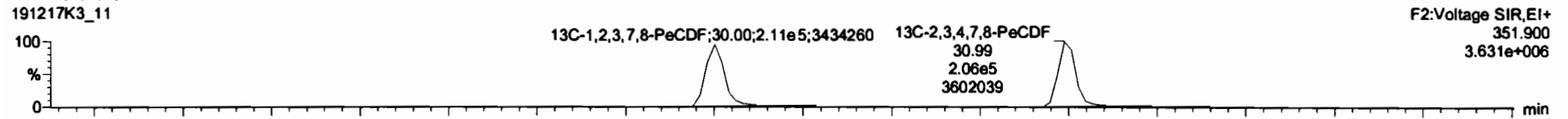
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Name: 191217K3\_11, Date: 18-Dec-2019, Time: 10:08:52, ID: 1903655-10 PDI-041SC-A-13-14.2-191010 14.47, Description: PDI-041SC-A-13-14.2-191010

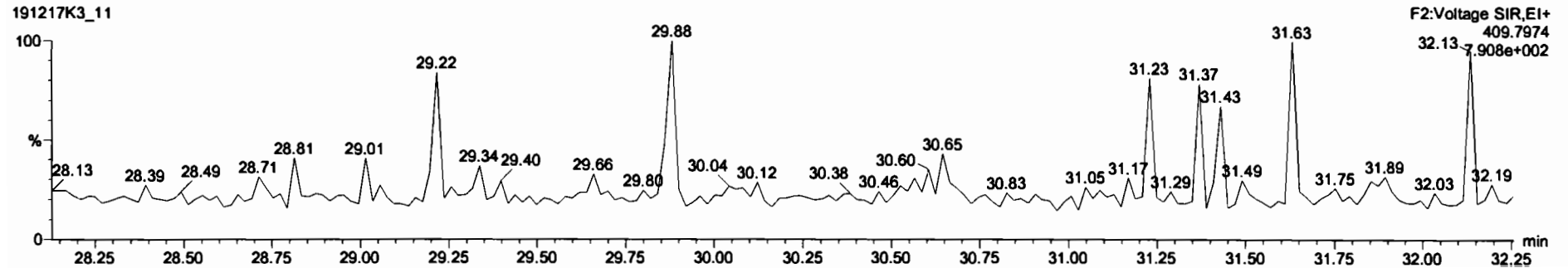
**1,2,3,7,8-PeCDF**



**13C-1,2,3,7,8-PeCDF**



**DPE2**

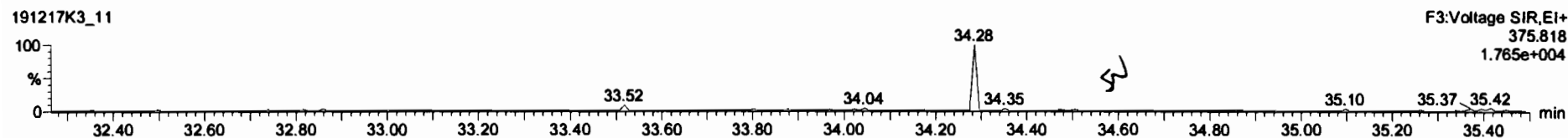
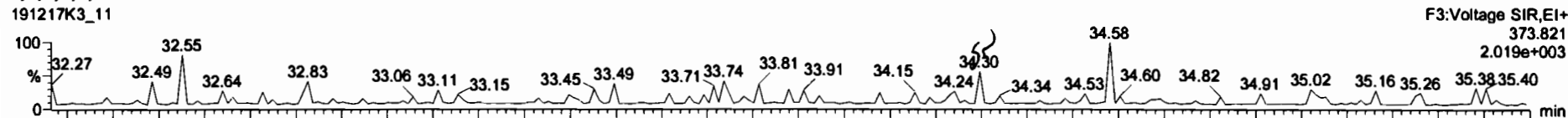


Dataset: Untitled

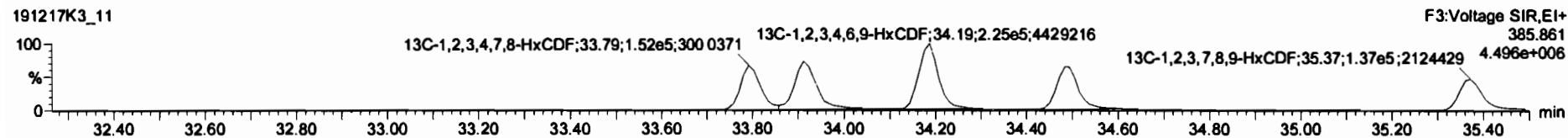
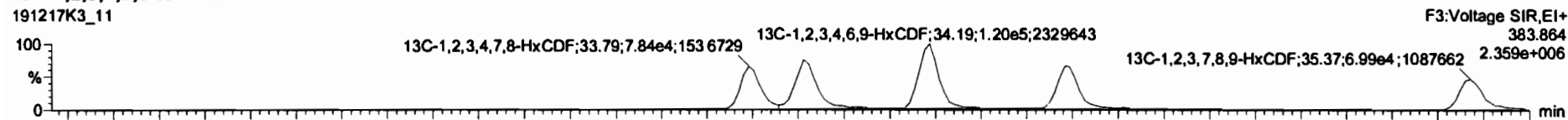
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_11, Date: 18-Dec-2019, Time: 10:08:52, ID: 1903655-10 PDI-041SC-A-13-14.2-191010 14.47, Description: PDI-041SC-A-13-14.2-191010

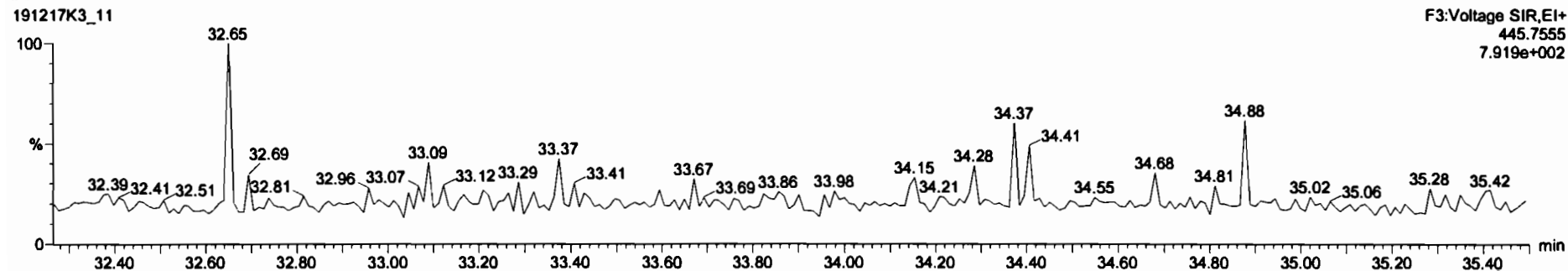
**1,2,3,4,7,8-HxCDF**



**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



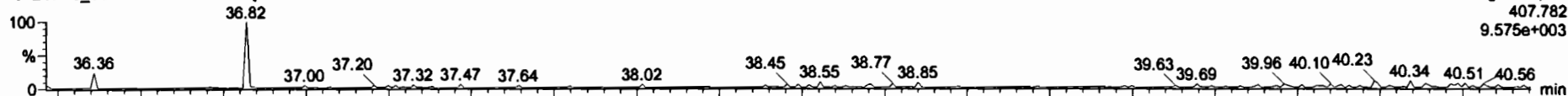
Dataset: Untitled

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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

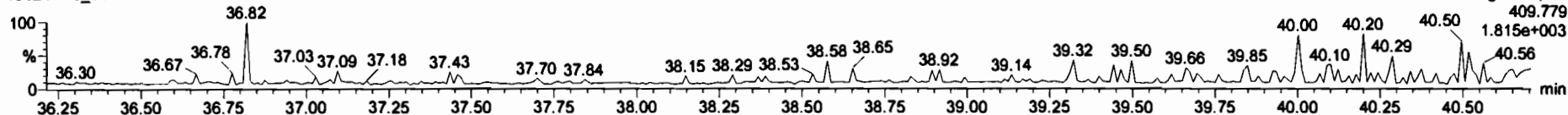
Name: 191217K3\_11, Date: 18-Dec-2019, Time: 10:08:52, ID: 1903655-10 PDI-041SC-A-13-14.2-191010 14.47, Description: PDI-041SC-A-13-14.2-191010

**1,2,3,4,6,7,8-HpCDF**

191217K3\_11

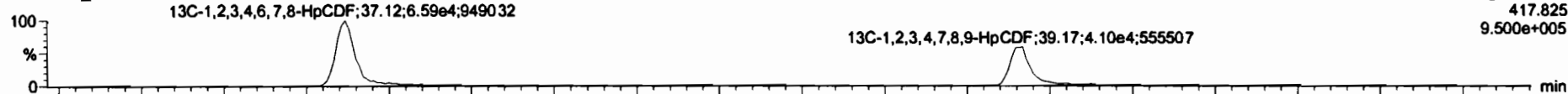


191217K3\_11

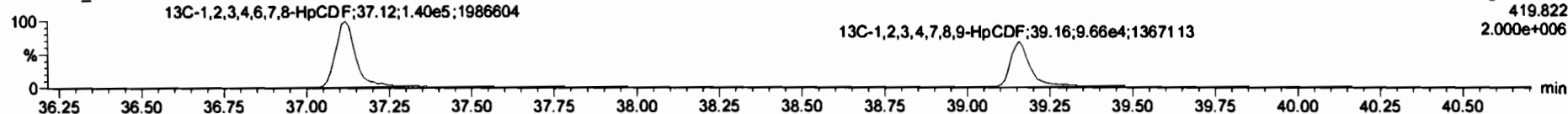


**13C-1,2,3,4,6,7,8-HpCDF**

191217K3\_11

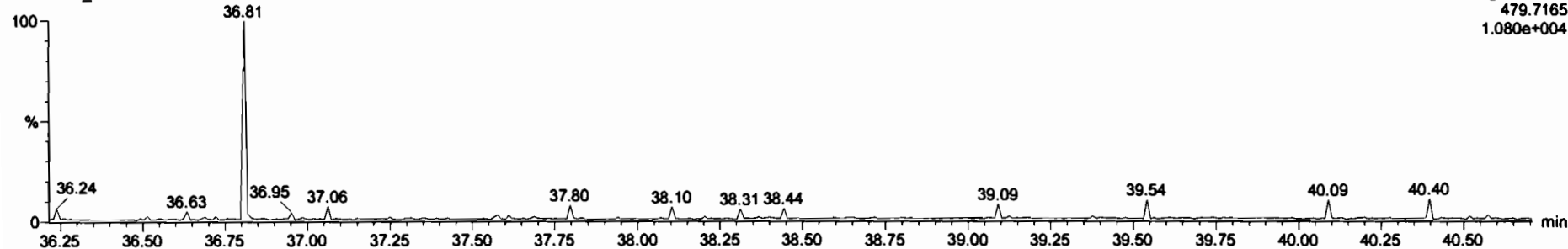


191217K3\_11



**DPE4**

191217K3\_11



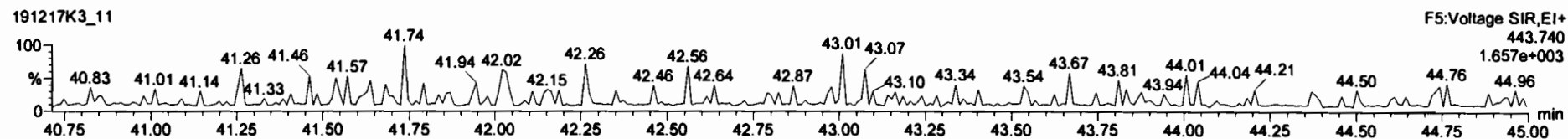
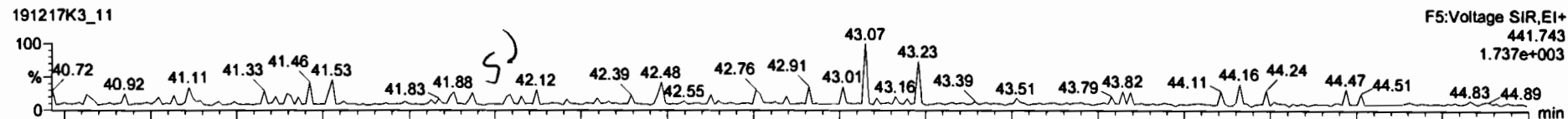
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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

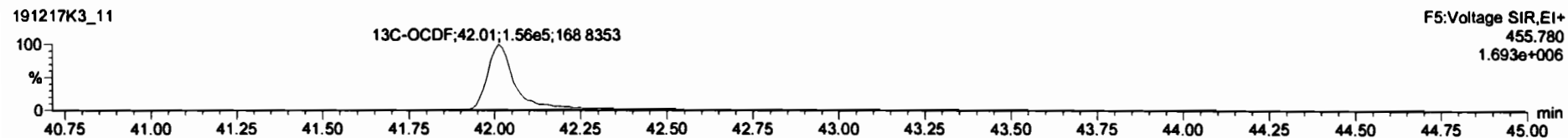
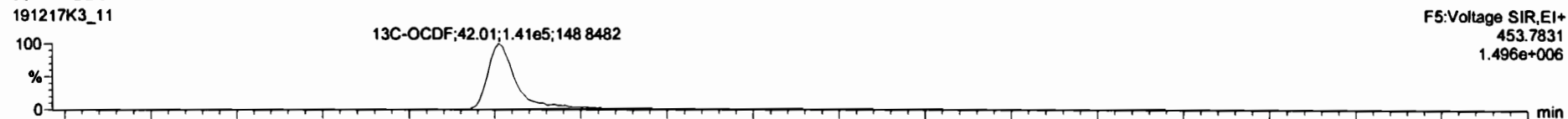
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_11, Date: 18-Dec-2019, Time: 10:08:52, ID: 1903655-10 PDI-041SC-A-13-14.2-191010 14.47, Description: PDI-041SC-A-13-14.2-191010

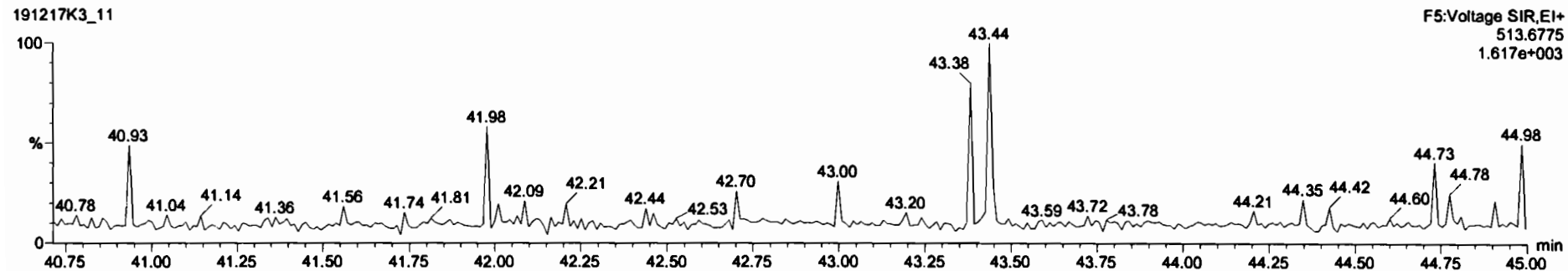
**OCDF**



**13C-OCDF**



**DPE5**



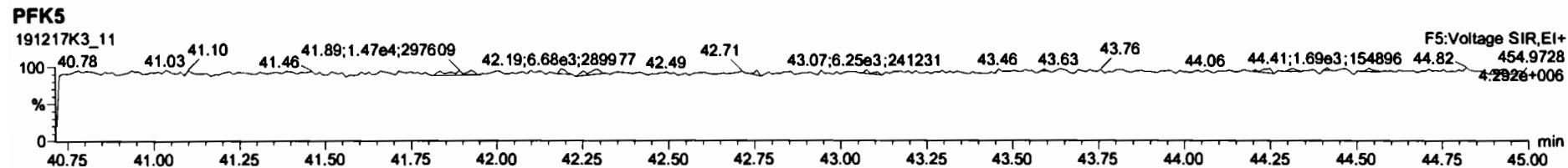
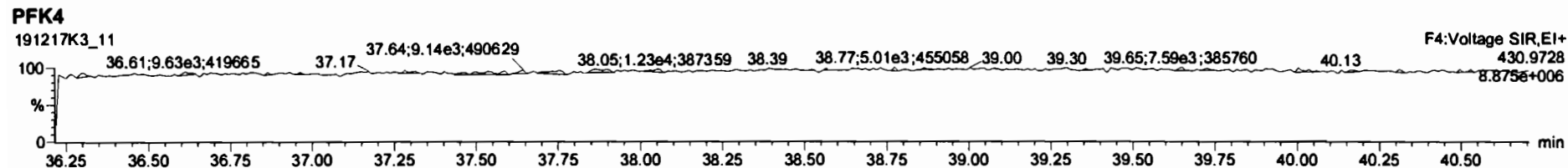
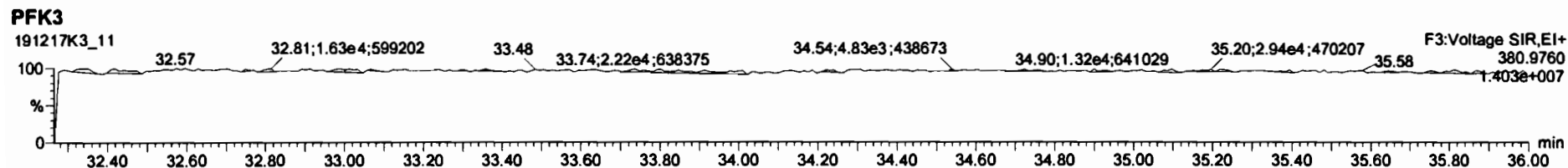
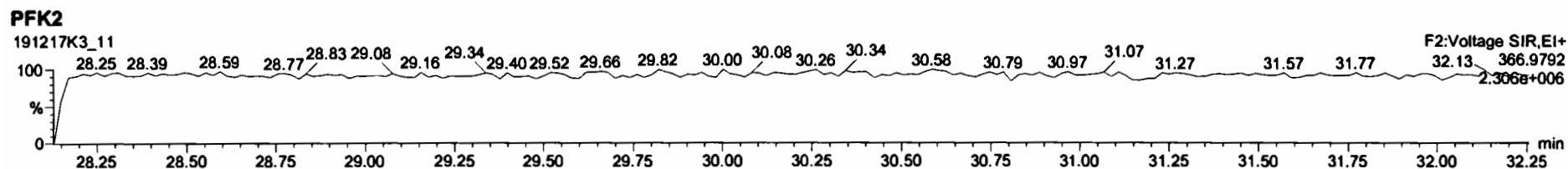
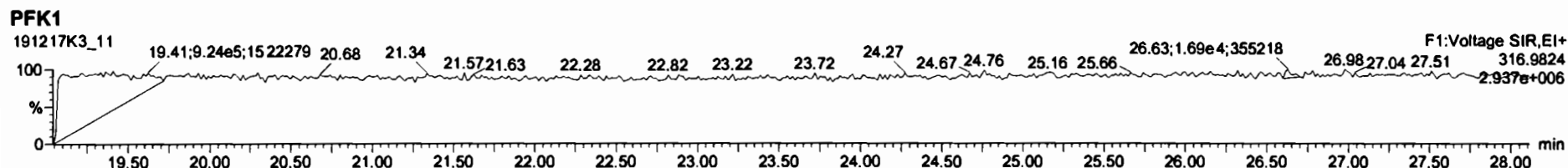


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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_11, Date: 18-Dec-2019, Time: 10:08:52, ID: 1903655-10 PDI-041SC-A-13-14.2-191010 14.47, Description: PDI-041SC-A-13-14.2-191010



Dataset: U:\VG11.PRO\Results\191217K3\191217K3-12.qld

Last Altered: Wednesday, December 18, 2019 6:08:14 PM Pacific Standard Time  
Printed: Tuesday, December 24, 2019 11:56:33 AM Pacific Standard Time

*HC 12/24/19*  
*WV*  
*11/6/20*

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57  
Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_12, Date: 18-Dec-2019, Time: 10:57:15, ID: 1903655-11 PDI-045SC-A-12-13-191010 13.17, Description: PDI-045SC-A-12-13-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.925	10.003	26.184		1.001				0.237	
2	2 1,2,3,7,8-PeCDD			NO	0.905	10.003	31.331		1.001				0.158	
3	3 1,2,3,4,7,8-HxCDD			NO	1.07	10.003	34.658		1.000				0.167	
4	4 1,2,3,6,7,8-HxCDD			NO	0.967	10.003	34.757		1.000				0.158	
5	5 1,2,3,7,8,9-HxCDD			NO	0.978	10.003	35.055		1.001				0.193	
6	6 1,2,3,4,6,7,8-HpCDD			NO	1.04	10.003	38.554		1.000				0.315	
7	7 OCDD			NO	0.972	10.003	41.824		1.000				0.573	
8	8 2,3,7,8-TCDF			NO	0.938	10.003	25.199		1.001				0.116	
9	9 1,2,3,7,8-PeCDF			NO	0.976	10.003	30.022		1.001				0.0731	
10	10 2,3,4,7,8-PeCDF			NO	1.00	10.003	31.018		1.001				0.0636	
11	11 1,2,3,4,7,8-HxCDF			NO	1.24	10.003	33.791		1.000				0.0529	
12	12 1,2,3,6,7,8-HxCDF			NO	1.10	10.003	33.911		1.000				0.0605	
13	13 2,3,4,6,7,8-HxCDF			NO	1.18	10.003	34.517		1.001				0.0597	
14	14 1,2,3,7,8,9-HxCDF			NO	1.07	10.003	35.360		1.000				0.0803	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.13	10.003	37.142		1.001				0.0793	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.26	10.003	39.168		1.000				0.122	
17	17 OCDF			NO	1.10	10.003	42.010		1.000				0.275	
18	18 13C-2,3,7,8-TCDD	2.04e5	0.74	NO	1.05	10.003	26.162	26.15	1.027	1.027	108.44	54.2	0.535	
19	19 13C-1,2,3,7,8-PeCDD	1.66e5	0.63	NO	0.743	10.003	31.309	31.31	1.230	1.230	124.57	62.3	0.648	
20	20 13C-1,2,3,4,7,8-HxCDD	1.02e5	1.22	NO	0.646	10.003	34.647	34.65	1.014	1.014	85.569	42.8	0.753	
21	21 13C-1,2,3,6,7,8-HxCDD	1.32e5	1.22	NO	0.777	10.003	34.746	34.76	1.017	1.017	92.207	46.1	0.627	
22	22 13C-1,2,3,7,8,9-HxCDD	1.10e5	1.23	NO	0.659	10.003	35.019	35.02	1.025	1.025	90.277	45.1	0.738	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.49e4	1.05	NO	0.534	10.003	38.519	38.54	1.127	1.128	86.142	43.1	1.11	
24	24 13C-OCDD	1.48e5	0.88	NO	0.470	10.003	41.800	41.82	1.223	1.224	171.10	42.8	1.29	
25	25 13C-2,3,7,8-TCDF	3.14e5	0.73	NO	0.977	10.003	25.174	25.17	0.989	0.989	102.50	51.3	0.587	
26	26 13C-1,2,3,7,8-PeCDF	2.43e5	1.51	NO	0.778	10.003	29.997	30.00	1.178	1.178	99.928	50.0	0.878	
27	27 13C-2,3,4,7,8-PeCDF	2.42e5	1.47	NO	0.750	10.003	30.988	30.99	1.217	1.217	102.93	51.5	0.911	
28	28 13C-1,2,3,4,7,8-HxCDF	1.60e5	0.51	NO	0.845	10.003	33.786	33.79	0.989	0.989	102.77	51.4	1.11	
29	29 13C-1,2,3,6,7,8-HxCDF	2.01e5	0.53	NO	1.03	10.003	33.902	33.90	0.992	0.992	106.27	53.1	0.917	
30	30 13C-2,3,4,6,7,8-HxCDF	1.75e5	0.52	NO	0.893	10.003	34.476	34.48	1.009	1.009	106.35	53.2	1.05	
31	31 13C-1,2,3,7,8,9-HxCDF	1.49e5	0.47	NO	0.734	10.003	35.378	35.36	1.035	1.035	109.71	54.9	1.28	

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-12.qld

Last Altered: Wednesday, December 18, 2019 6:08:14 PM Pacific Standard Time

Printed: Tuesday, December 24, 2019 11:56:33 AM Pacific Standard Time

Name: 191217K3\_12, Date: 18-Dec-2019, Time: 10:57:15, ID: 1903655-11 PDI-045SC-A-12-13-191010 13.17, Description: PDI-045SC-A-12-13-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.39e5	0.45	NO	0.754	10.003	37.094	37.10	1.085	1.086	100.05	50.0	0.785	
33	33 13C-1,2,3,4,7,8,9-HpCDF	8.34e4	0.46	NO	0.539	10.003	39.121	39.17	1.145	1.146	83.851	41.9	1.10	
34	34 13C-OCDF	2.12e5	0.87	NO	0.593	10.003	41.988	42.01	1.229	1.229	194.16	48.6	1.17	
35	35 37Cl-2,3,7,8-TCDD	1.49e5			1.07	10.003	26.183	26.18	1.028	1.028	77.726	97.2	0.111	
36	36 13C-1,2,3,4-TCDD	3.58e5	0.79	NO	1.00	10.003	25.450	25.47	1.000	1.000	199.95	100	0.561	
37	37 13C-1,2,3,4-TCDF	6.26e5	0.75	NO	1.00	10.003	23.550	23.55	1.000	1.000	199.95	100	0.573	
38	38 13C-1,2,3,4,6,9-HxCDF	3.69e5	0.54	NO	1.00	10.003	34.160	34.17	1.000	1.000	199.95	100	0.941	
39	39 Total Tetra-Dioxins				0.925	10.003	24.620		0.000				0.154	
40	40 Total Penta-Dioxins				0.905	10.003	29.960		0.000				0.0592	
41	41 Total Hexa-Dioxins				0.967	10.003	33.635		0.000				0.102	
42	42 Total Hepta-Dioxins				1.04	10.003	38.800		0.000				0.201	
43	43 Total Tetra-Furans				0.938	10.003	23.610		0.000				0.0473	
44	44 1st Func. Penta-Furans				0.976	10.003	27.040		0.000				0.0188	
45	45 Total Penta-Furans				0.976	10.003	29.275		0.000				0.0249	
46	46 Total Hexa-Furans				1.18	10.003	33.555		0.000				0.0332	
47	47 Total Hepta-Furans				1.13	10.003	37.835		0.000				0.0599	

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-12.qld

Last Altered: Wednesday, December 18, 2019 6:08:14 PM Pacific Standard Time

Printed: Tuesday, December 24, 2019 11:56:33 AM Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_12, Date: 18-Dec-2019, Time: 10:57:15, ID: 1903655-11 PDI-045SC-A-12-13-191010 13.17, Description: PDI-045SC-A-12-13-191010

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hepta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Tetra-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Furans function 1**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-12.qld

Last Altered: Wednesday, December 18, 2019 6:08:14 PM Pacific Standard Time

Printed: Tuesday, December 24, 2019 11:56:33 AM Pacific Standard Time

Name: 191217K3\_12, Date: 18-Dec-2019, Time: 10:57:15, ID: 1903655-11 PDI-045SC-A-12-13-191010 13.17, Description: PDI-045SC-A-12-13-191010

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

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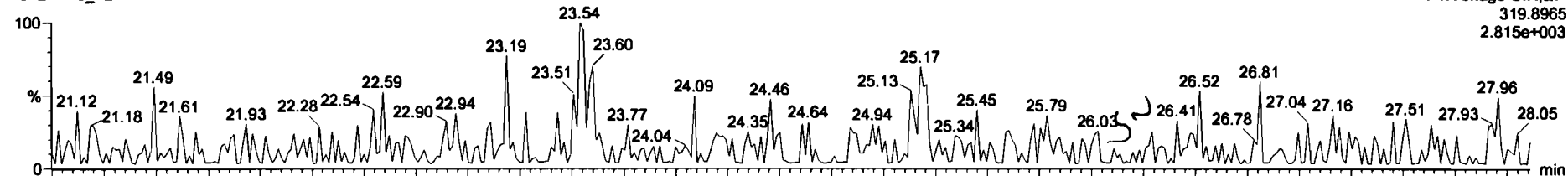
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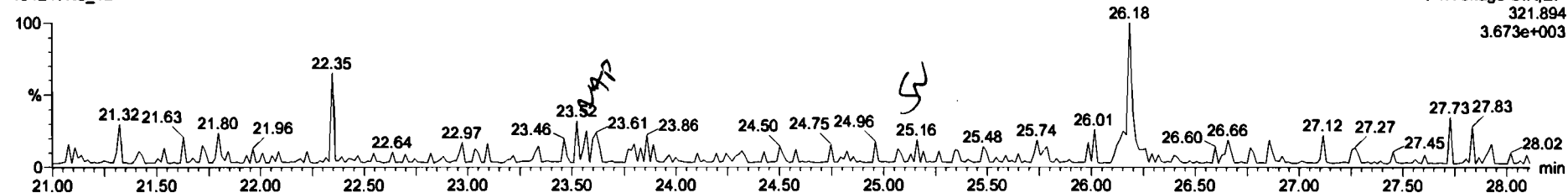
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2,3,7,8-TCDD

191217K3\_12

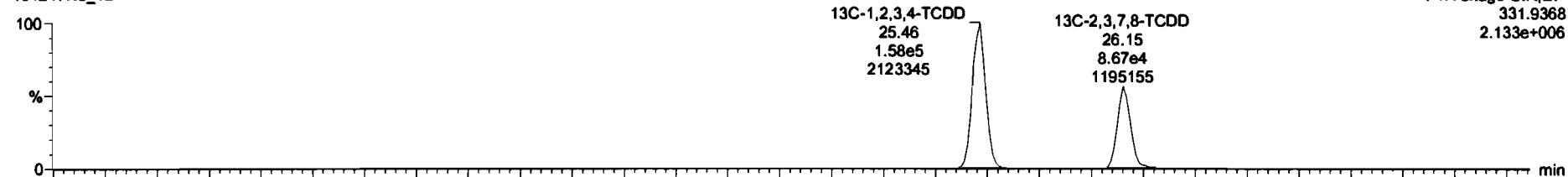


191217K3\_12

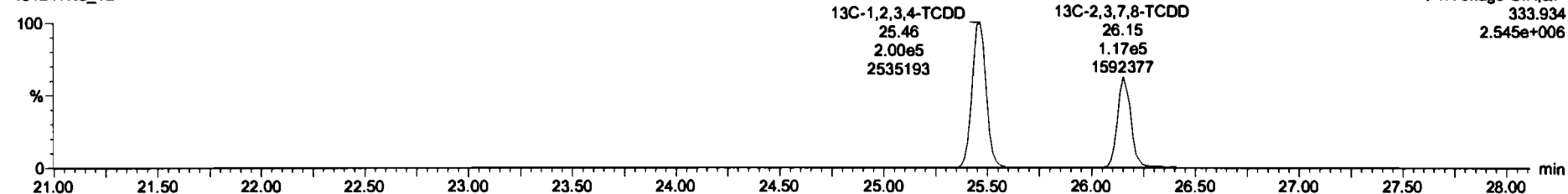


13C-2,3,7,8-TCDD

191217K3\_12



191217K3\_12



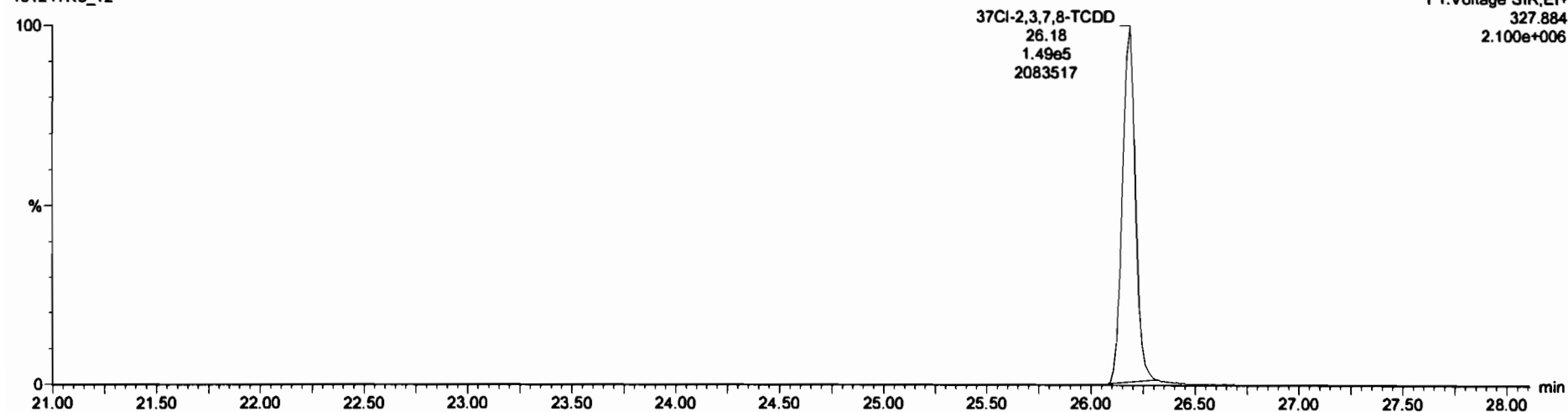
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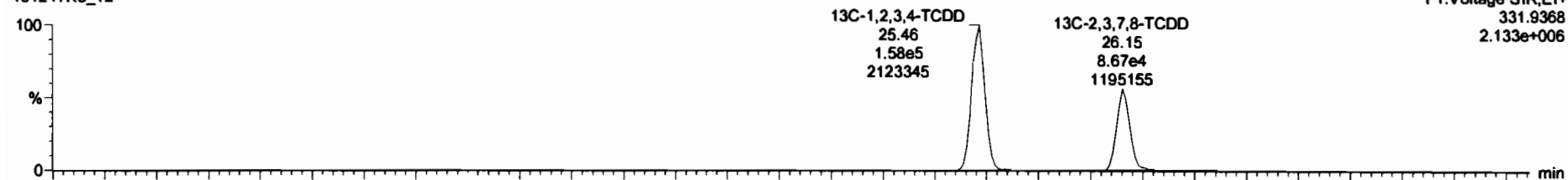
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191217K3\_12

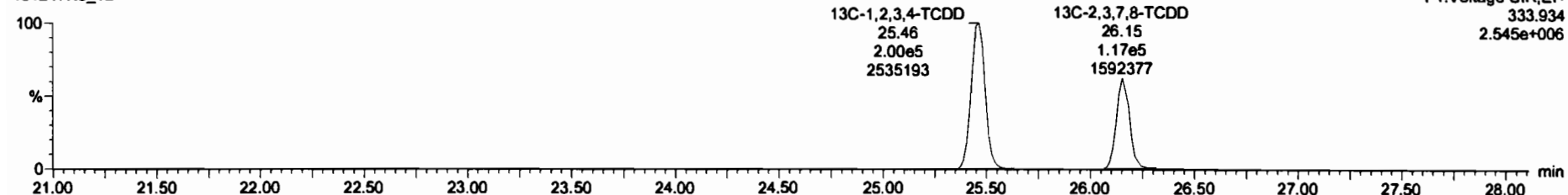


13C-1,2,3,4-TCDD

191217K3\_12



191217K3\_12



Dataset: Untitled

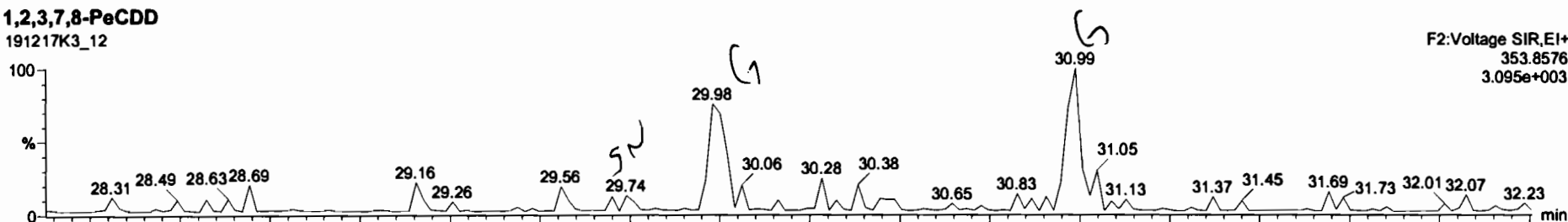
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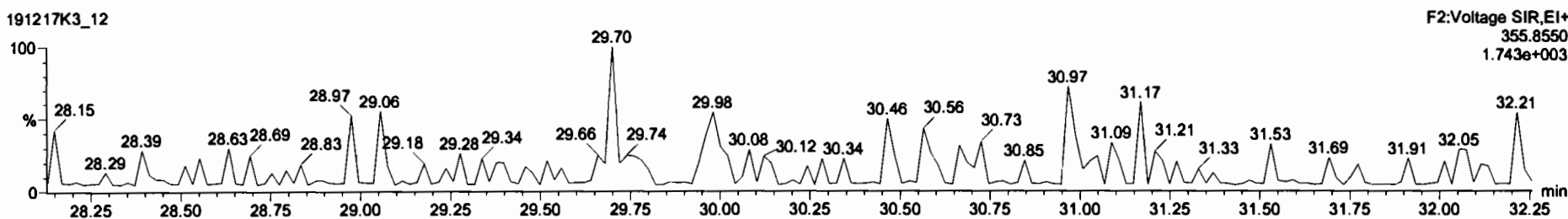
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1,2,3,7,8-PeCDD

191217K3\_12

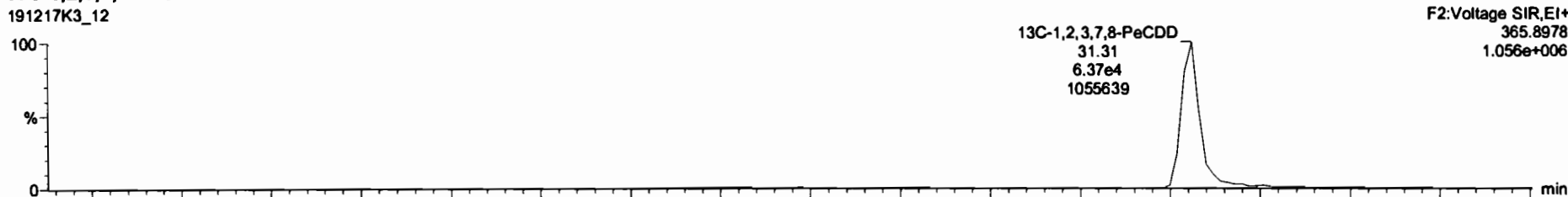


191217K3\_12

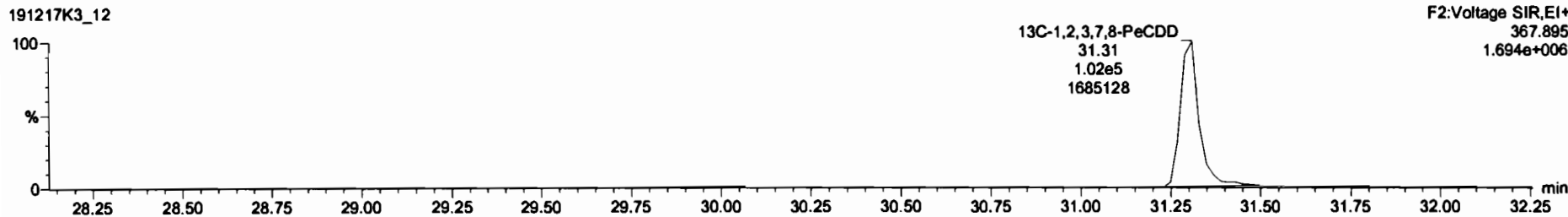


13C-1,2,3,7,8-PeCDD

191217K3\_12



191217K3\_12





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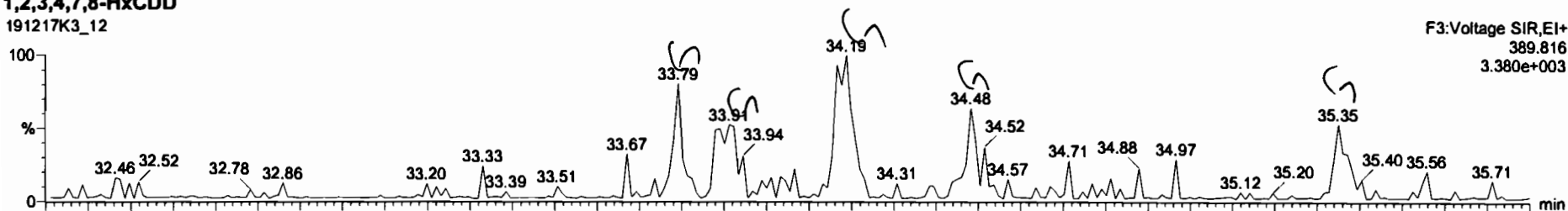
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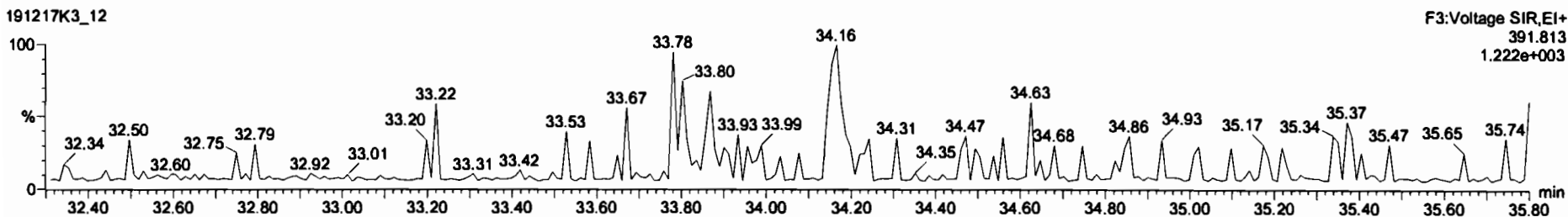
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1,2,3,4,7,8-HxCDD

191217K3\_12

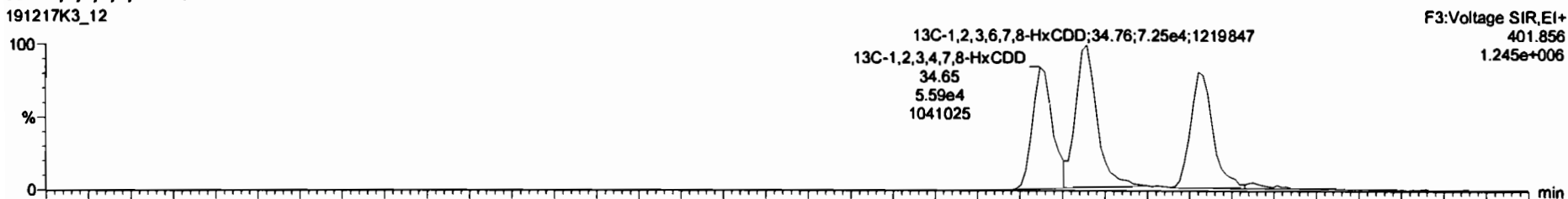


191217K3\_12

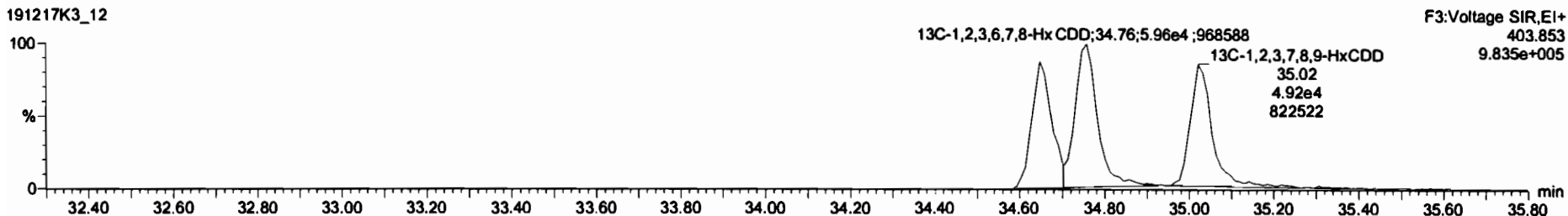


13C-1,2,3,4,7,8-HxCDD

191217K3\_12



191217K3\_12

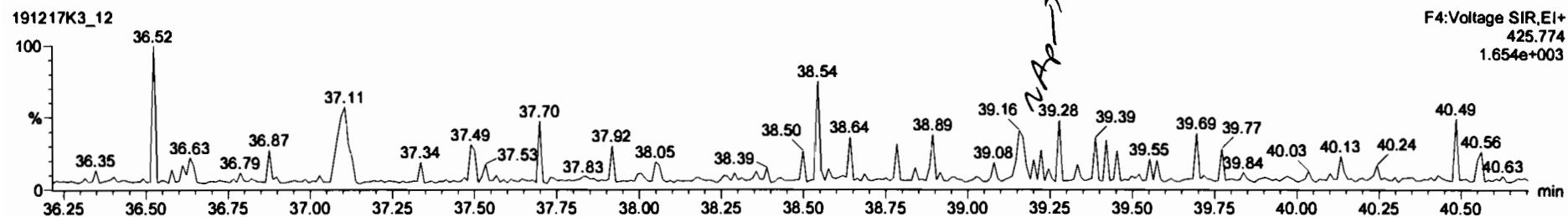
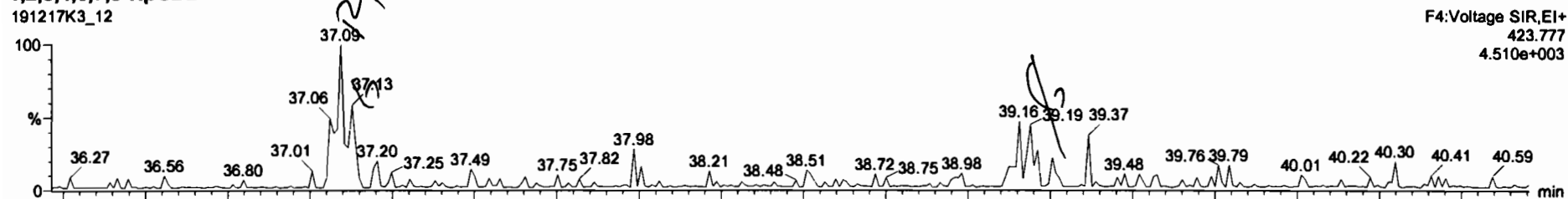


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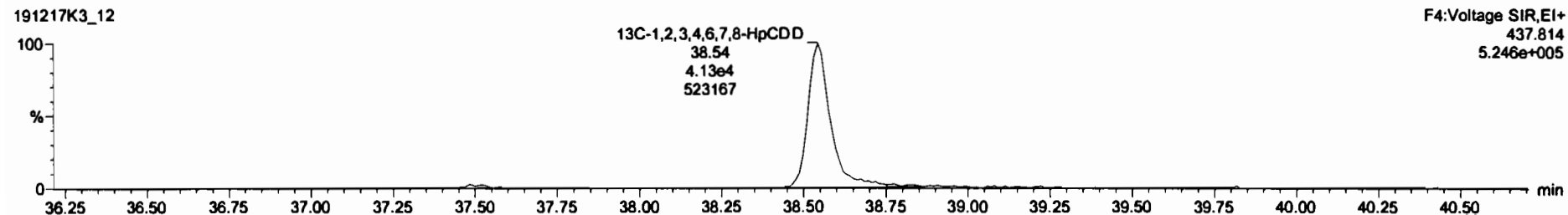
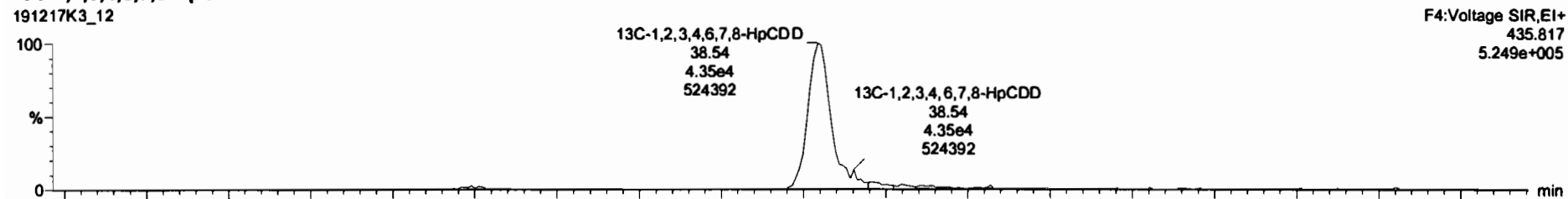
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Name: 191217K3\_12, Date: 18-Dec-2019, Time: 10:57:15, ID: 1903655-11 PDI-045SC-A-12-13-191010 13.17, Description: PDI-045SC-A-12-13-191010

1,2,3,4,6,7,8-HpCDD



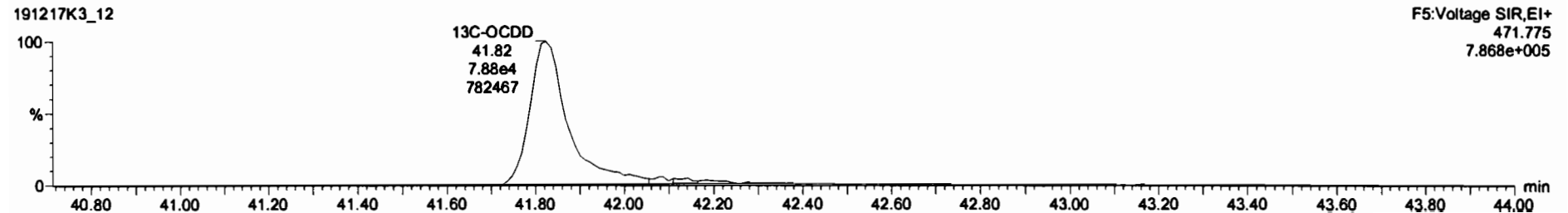
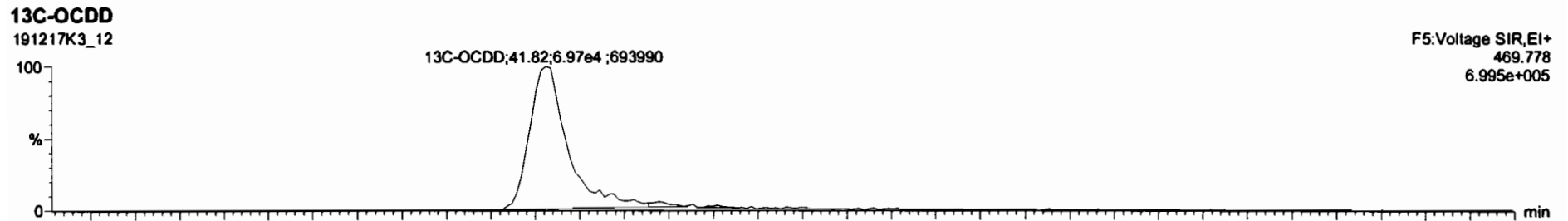
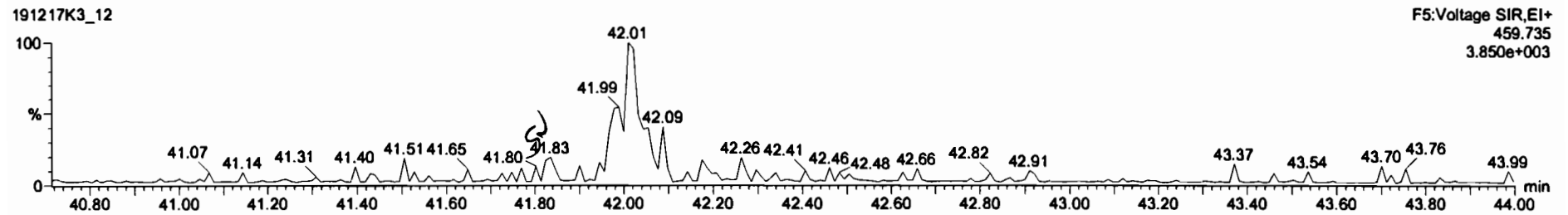
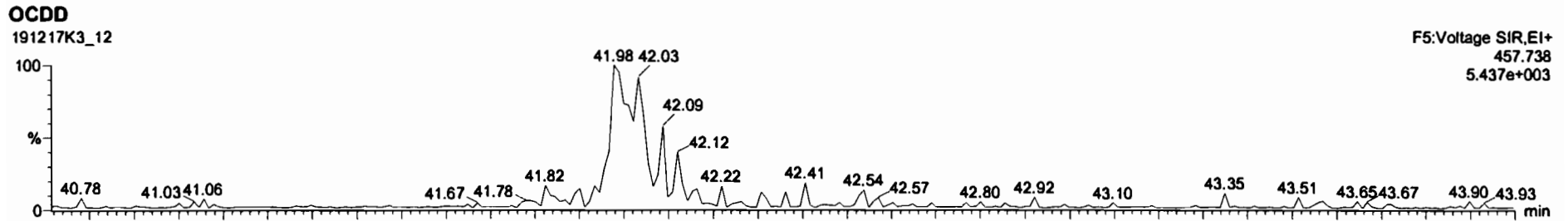
13C-1,2,3,4,6,7,8-HpCDD



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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_12, Date: 18-Dec-2019, Time: 10:57:15, ID: 1903655-11 PDI-045SC-A-12-13-191010 13.17, Description: PDI-045SC-A-12-13-191010



Dataset: Untitled

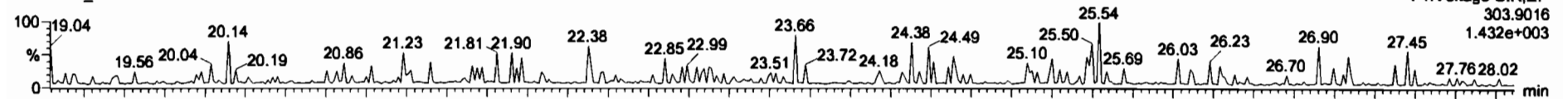
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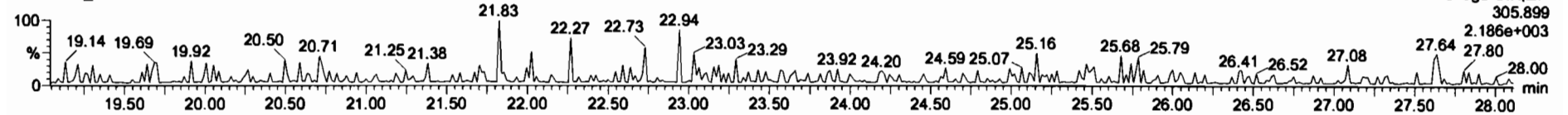
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**2,3,7,8-TCDF**

191217K3\_12

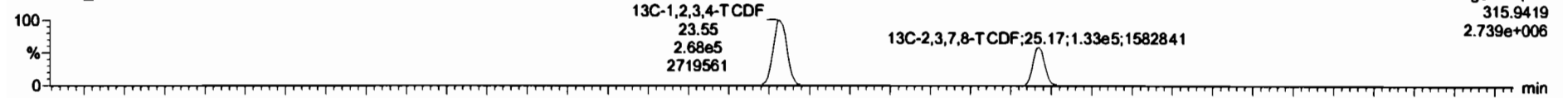


191217K3\_12

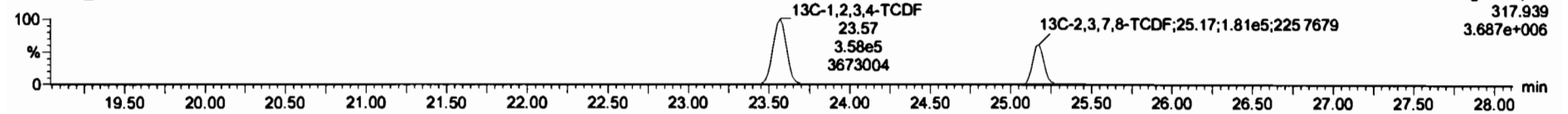


**13C-2,3,7,8-TCDF**

191217K3\_12

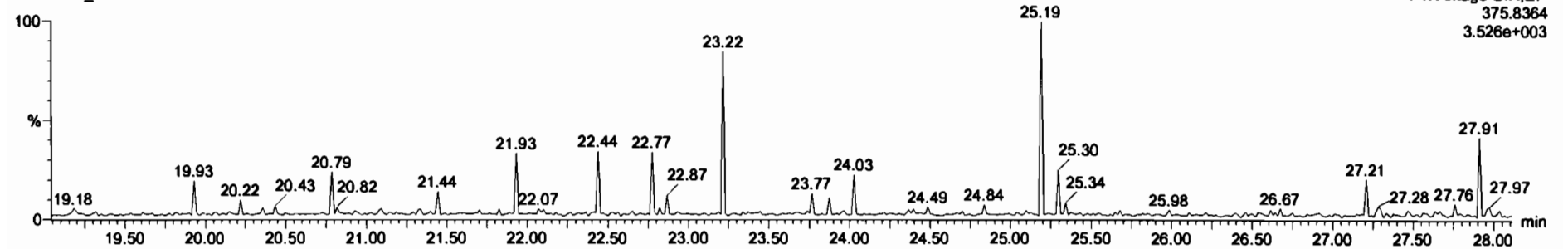


191217K3\_12



**DPE1**

191217K3\_12



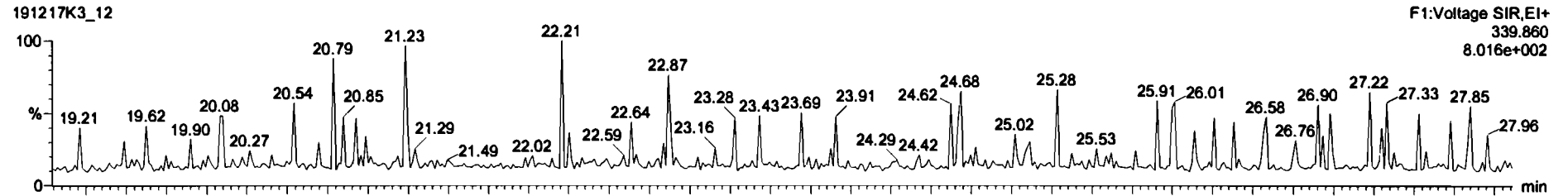
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

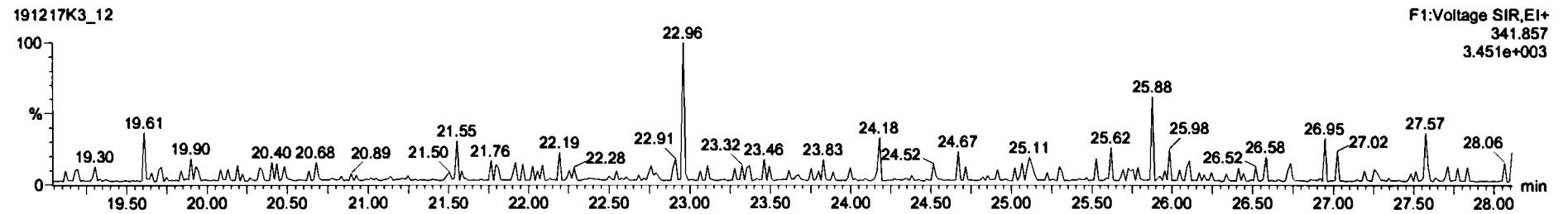
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1st Func. Penta-Furans

191217K3\_12

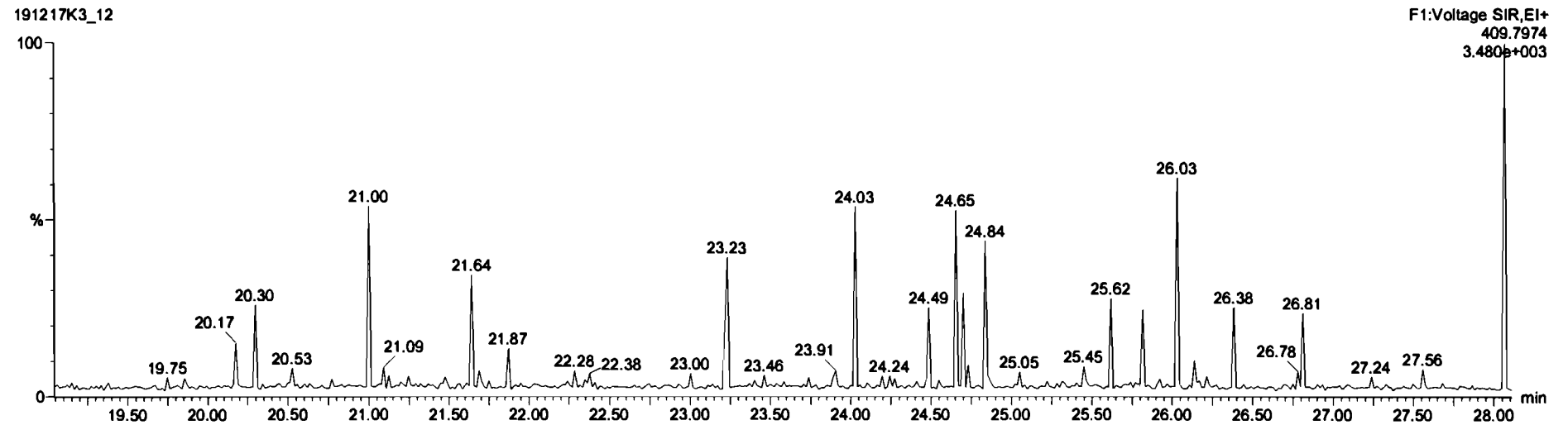


191217K3\_12



DPE6

191217K3\_12



Dataset: Untitled

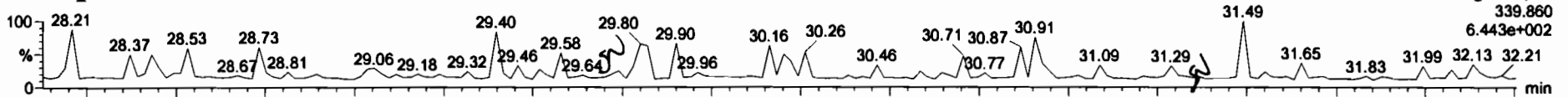
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

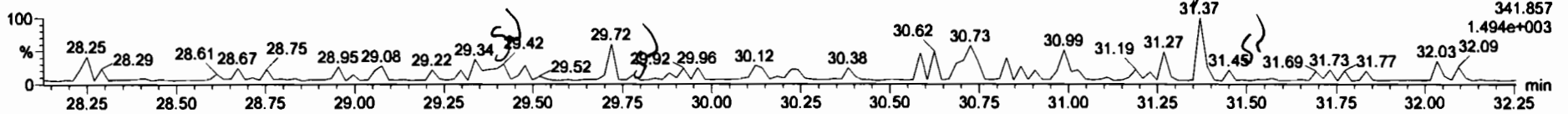
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**1,2,3,7,8-PeCDF**

191217K3\_12

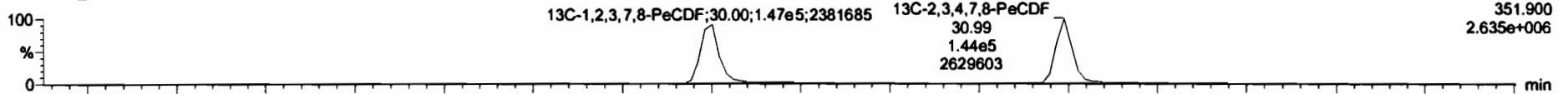


191217K3\_12

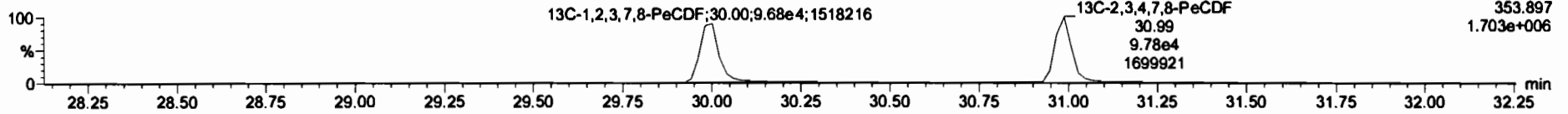


**13C-1,2,3,7,8-PeCDF**

191217K3\_12

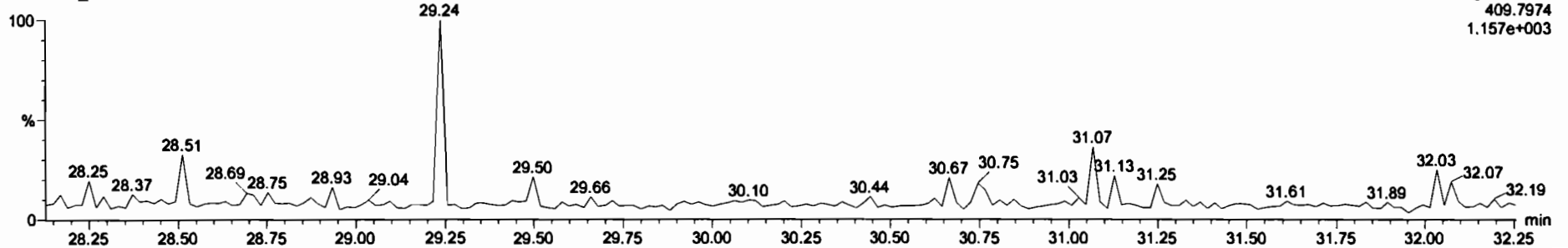


191217K3\_12



**DPE2**

191217K3\_12

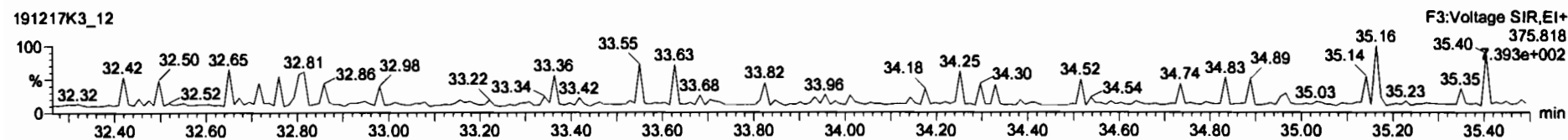
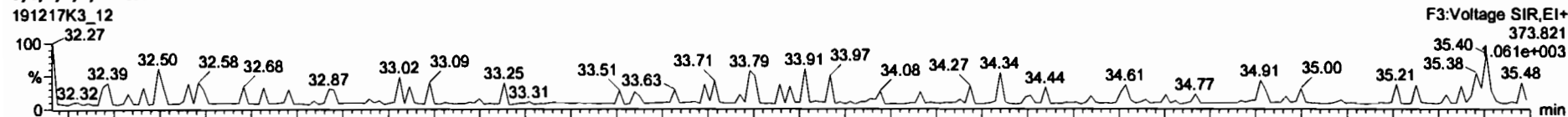


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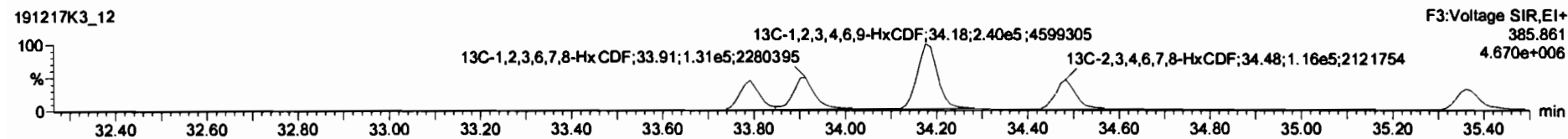
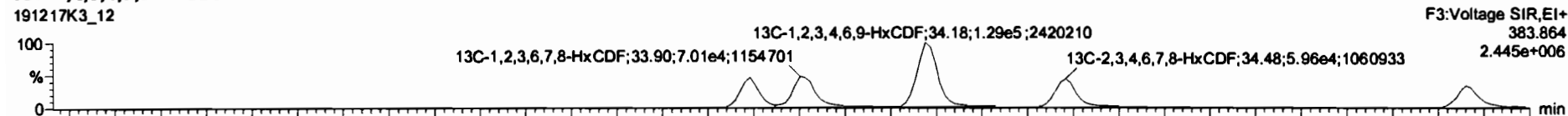
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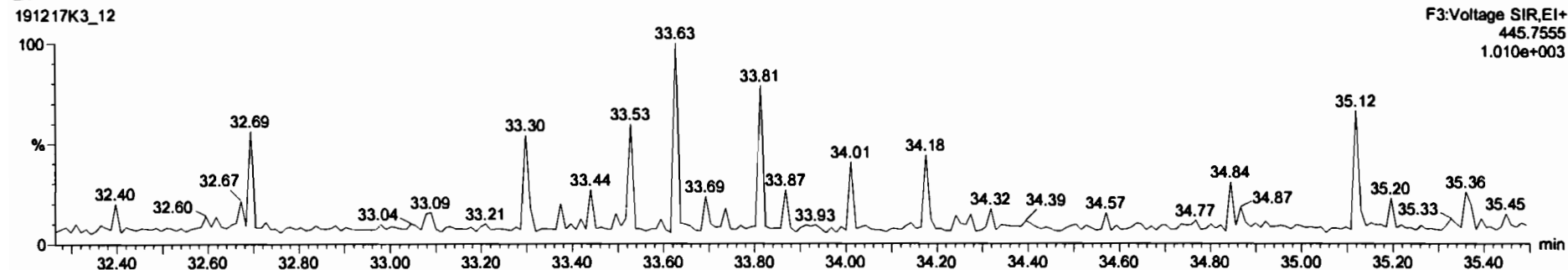
**1,2,3,4,7,8-HxCDF**



**13C-1,2,3,4,7,8-HxCDF**



**DPE3**

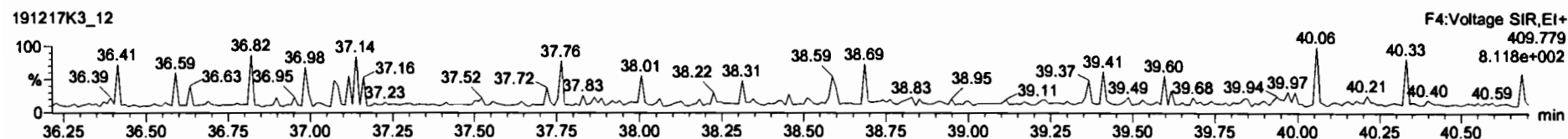
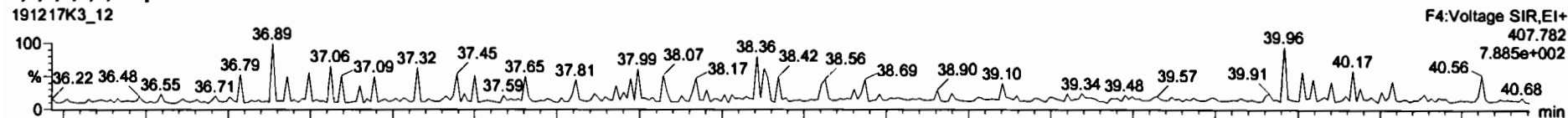


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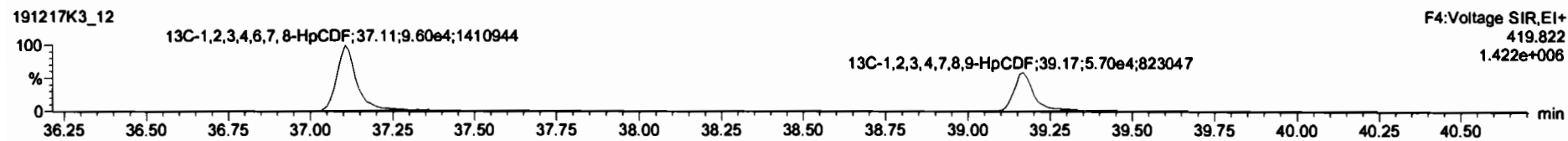
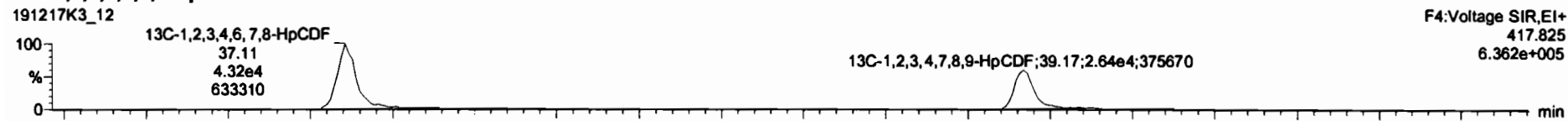
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_12, Date: 18-Dec-2019, Time: 10:57:15, ID: 1903655-11 PDI-045SC-A-12-13-191010 13.17, Description: PDI-045SC-A-12-13-191010

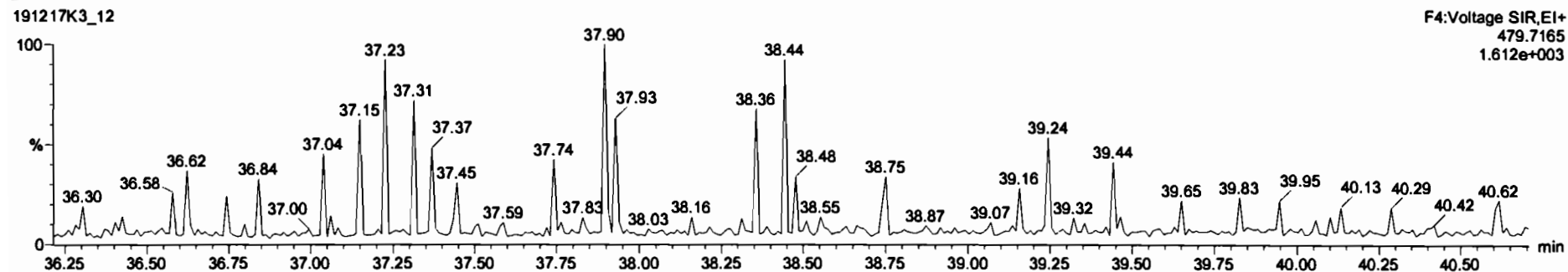
### 1,2,3,4,6,7,8-HpCDF



### 13C-1,2,3,4,6,7,8-HpCDF



### DPE4

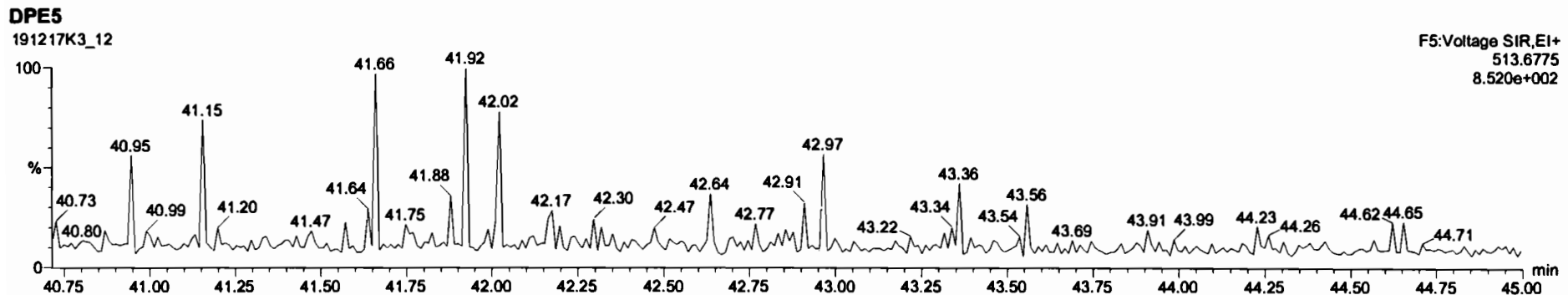
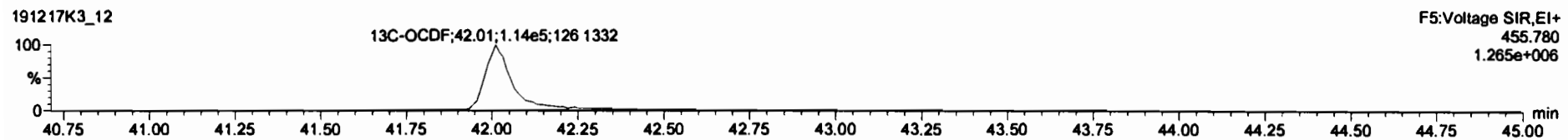
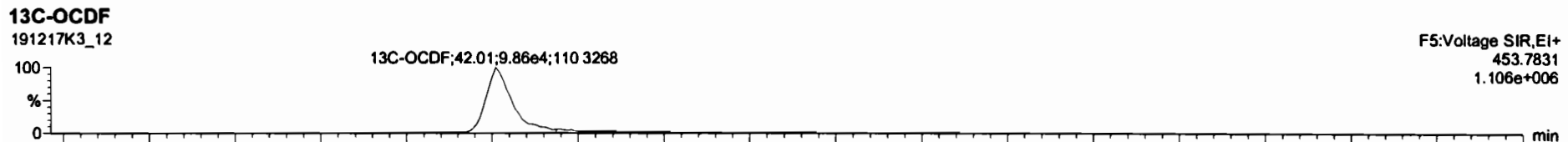
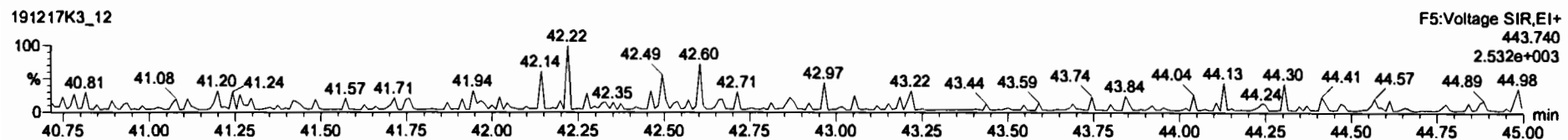
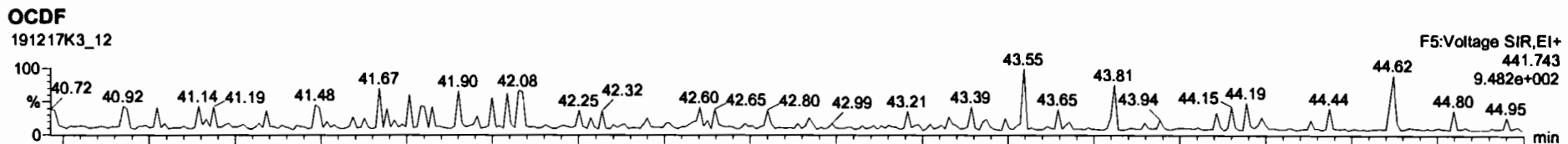




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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_12, Date: 18-Dec-2019, Time: 10:57:15, ID: 1903655-11 PDI-045SC-A-12-13-191010 13.17, Description: PDI-045SC-A-12-13-191010



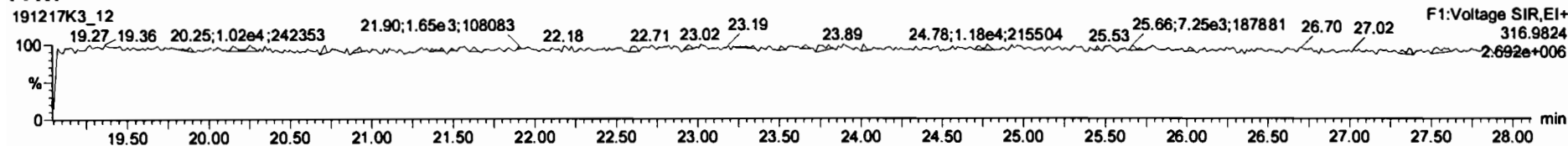
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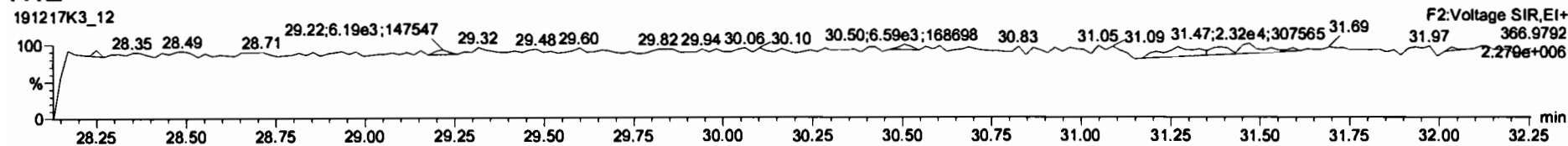
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

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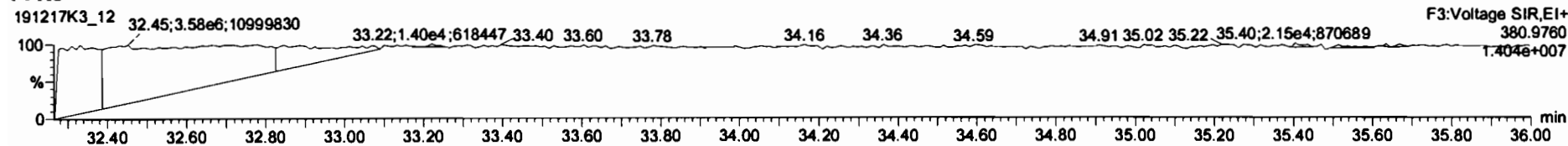
PFK1



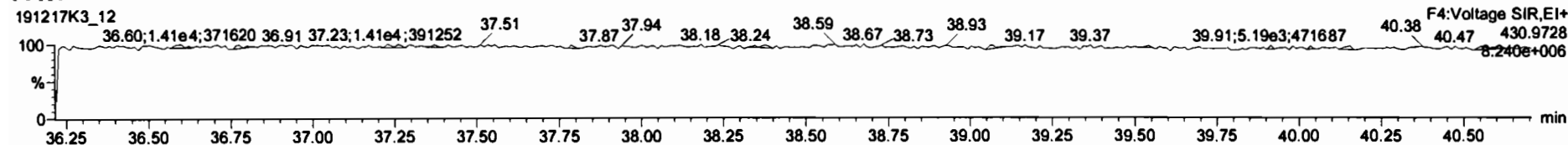
PFK2



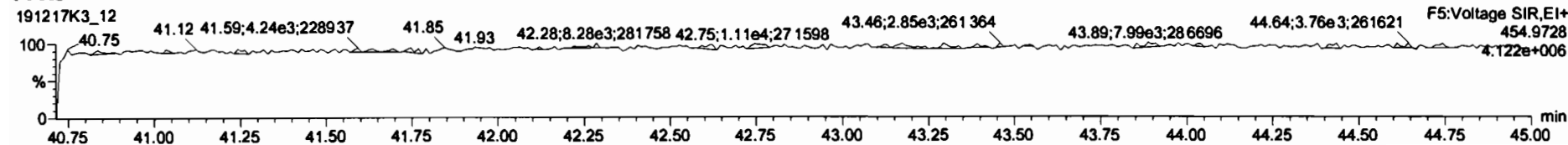
PFK3



PFK4



PFK5



Dataset: U:\VG11.PRO\Results\191217K3\191217K3-13.qld

Last Altered: Tuesday, December 24, 2019 11:59:06 AM Pacific Standard Time  
 Printed: Tuesday, December 24, 2019 12:00:00 PM Pacific Standard Time

*Hc 12-24-19*

*mc  
11/6/20*

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57  
 Calibration: U:\VG11.PRO\CurveDB\ldb5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_13, Date: 18-Dec-2019, Time: 11:45:38, ID: 1903655-12 PDI-045SC-A-13-13.6-191010 13.98, Description: PDI-045SC-A-13-13.6-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.925	10.026	26.184		1.001				0.198	
2	2 1,2,3,7,8-PeCDD			NO	0.905	10.026	31.331		1.001				0.141	
3	3 1,2,3,4,7,8-HxCDD			NO	1.07	10.026	34.668		1.000				0.211	
4	4 1,2,3,6,7,8-HxCDD			NO	0.967	10.026	34.757		1.000				0.192	
5	5 1,2,3,7,8,9-HxCDD			NO	0.978	10.026	35.066		1.001				0.250	
6	6 1,2,3,4,6,7,8-HpCDD			NO	1.04	10.026	38.566		1.000				0.346	
7	7 OCDD	1.18e3	0.90	NO	0.972	10.026	41.835	41.85	1.000	1.000	2.3046		0.629	2.30
8	8 2,3,7,8-TCDF			NO	0.938	10.026	25.199		1.001				0.0823	
9	9 1,2,3,7,8-PeCDF			NO	0.976	10.026	30.002		1.001				0.0663	
10	10 2,3,4,7,8-PeCDF			NO	1.00	10.026	31.018		1.001				0.0587	
11	11 1,2,3,4,7,8-HxCDF			NO	1.24	10.026	33.791		1.000				0.0463	
12	12 1,2,3,6,7,8-HxCDF			NO	1.10	10.026	33.922		1.000				0.0471	
13	13 2,3,4,6,7,8-HxCDF			NO	1.18	10.026	34.516		1.001				0.0517	
14	14 1,2,3,7,8,9-HxCDF			NO	1.07	10.026	35.371		1.000				0.0741	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.13	10.026	37.153		1.001				0.0542	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.26	10.026	39.157		1.000				0.0739	
17	17 OCDF			NO	1.10	10.026	42.021		1.000				0.172	
18	18 13C-2,3,7,8-TCDD	2.52e5	0.78	NO	1.05	10.026	26.163	26.15	1.027	1.027	178.84	89.7	0.631	
19	19 13C-1,2,3,7,8-PeCDD	1.96e5	0.60	NO	0.743	10.026	31.309	31.31	1.230	1.229	196.71	98.6	0.987	
20	20 13C-1,2,3,4,7,8-HxCDD	1.28e5	1.29	NO	0.646	10.026	34.647	34.66	1.014	1.014	130.40	65.4	1.24	
21	21 13C-1,2,3,6,7,8-HxCDD	1.79e5	1.40	NO	0.777	10.026	34.746	34.76	1.017	1.017	152.47	76.4	1.03	
22	22 13C-1,2,3,7,8,9-HxCDD	1.50e5	1.41	NO	0.659	10.026	35.019	35.03	1.025	1.025	150.30	75.3	1.21	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.15e5	1.03	NO	0.534	10.026	38.519	38.55	1.127	1.128	142.02	71.2	1.14	
24	24 13C-OCDD	2.10e5	0.91	NO	0.470	10.026	41.799	41.83	1.223	1.224	294.46	73.8	1.64	
25	25 13C-2,3,7,8-TCDF	3.87e5	0.72	NO	0.977	10.026	25.175	25.17	0.989	0.989	161.46	80.9	0.745	
26	26 13C-1,2,3,7,8-PeCDF	2.93e5	1.44	NO	0.778	10.026	29.998	29.98	1.178	1.177	153.45	76.9	1.34	
27	27 13C-2,3,4,7,8-PeCDF	2.92e5	1.48	NO	0.750	10.026	30.988	30.99	1.217	1.217	159.04	79.7	1.39	
28	28 13C-1,2,3,4,7,8-HxCDF	1.96e5	0.54	NO	0.845	10.026	33.785	33.79	0.989	0.989	153.18	76.8	1.50	
29	29 13C-1,2,3,6,7,8-HxCDF	2.48e5	0.50	NO	1.03	10.026	33.902	33.91	0.992	0.992	159.63	80.0	1.23	
30	30 13C-2,3,4,6,7,8-HxCDF	2.24e5	0.56	NO	0.893	10.026	34.476	34.48	1.009	1.009	165.53	83.0	1.42	
31	31 13C-1,2,3,7,8,9-HxCDF	1.84e5	0.50	NO	0.734	10.026	35.378	35.37	1.035	1.035	165.53	83.0	1.72	

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-13.qld

Last Altered: Tuesday, December 24, 2019 11:59:06 AM Pacific Standard Time

Printed: Tuesday, December 24, 2019 12:00:00 PM Pacific Standard Time

Name: 191217K3\_13, Date: 18-Dec-2019, Time: 11:45:38, ID: 1903655-12 PDI-045SC-A-13-13.6-191010 13.98, Description: PDI-045SC-A-13-13.6-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.88e5	0.45	NO	0.754	10.026	37.094	37.12	1.085	1.086	164.45	82.4	1.23	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.21e5	0.46	NO	0.539	10.026	39.120	39.16	1.145	1.146	148.11	74.2	1.72	
34	34 13C-OCDF	3.26e5	0.92	NO	0.593	10.026	41.987	42.02	1.229	1.230	363.16	91.0	1.49	
35	35 37Cl-2,3,7,8-TCDD	9.99e4			1.07	10.026	26.183	26.18	1.028	1.028	69.587	87.2	0.166	
36	36 13C-1,2,3,4-TCDD	2.68e5	0.76	NO	1.00	10.026	25.450	25.47	1.000	1.000	199.48	100	0.662	
37	37 13C-1,2,3,4-TCDF	4.89e5	0.76	NO	1.00	10.026	23.550	23.57	1.000	1.000	199.48	100	0.728	
38	38 13C-1,2,3,4,6,9-HxCDF	3.02e5	0.51	NO	1.00	10.026	34.160	34.17	1.000	1.000	199.48	100	1.26	
39	39 Total Tetra-Dioxins				0.925	10.026	24.620		0.000				0.118	
40	40 Total Penta-Dioxins				0.905	10.026	29.960		0.000				0.0673	
41	41 Total Hexa-Dioxins				0.967	10.026	33.635		0.000		0.00000		0.101	0.207
42	42 Total Hepta-Dioxins				1.04	10.026	38.800		0.000		0.00000		0.158	0.384
43	43 Total Tetra-Furans				0.938	10.026	23.610		0.000				0.0367	
44	44 1st Func. Penta-Furans				0.976	10.026	27.040		0.000				0.0133	
45	45 Total Penta-Furans				0.976	10.026	29.275		0.000				0.0266	
46	46 Total Hexa-Furans				1.18	10.026	33.555		0.000				0.0256	
47	47 Total Hepta-Furans				1.13	10.026	37.835		0.000				0.0285	

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Dataset: U:\VG11.PRO\Results\191217K3\191217K3-13.qld

Last Altered: Tuesday, December 24, 2019 11:59:06 AM Pacific Standard Time

Printed: Tuesday, December 24, 2019 12:00:00 PM Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_13, Date: 18-Dec-2019, Time: 11:45:38, ID: 1903655-12 PDI-045SC-A-13-13.6-191010 13.98, Description: PDI-045SC-A-13-13.6-191010

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	Total Hexa-Dioxins	33.18	2.796e3	1.634e3	1.194e2	6.823e1	1.75	YES	0.000e0	0.00000	0.20694	0.101

**Hepta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	Total Hepta-Dioxins	37.51	3.269e3	3.373e3	1.518e2	1.125e2	1.35	YES	0.000e0	0.00000	0.38410	0.158

**Tetra-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Furans function 1**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-13.qld

Last Altered: Tuesday, December 24, 2019 11:59:06 AM Pacific Standard Time

Printed: Tuesday, December 24, 2019 12:00:00 PM Pacific Standard Time

Name: 191217K3\_13, Date: 18-Dec-2019, Time: 11:45:38, ID: 1903655-12 PDI-045SC-A-13-13.6-191010 13.98, Description: PDI-045SC-A-13-13.6-191010

**Penta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hepta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Dataset: Untitled

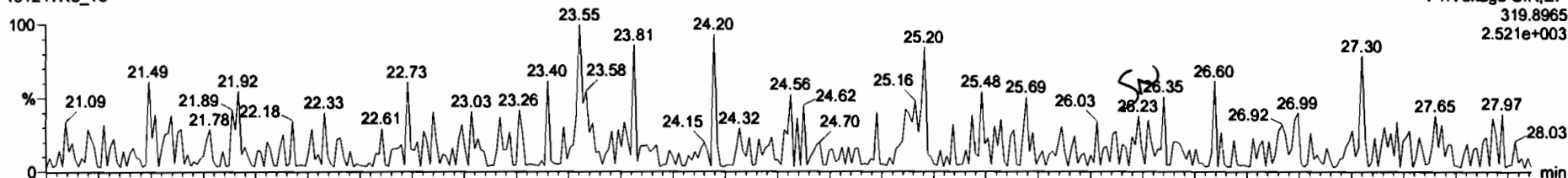
Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

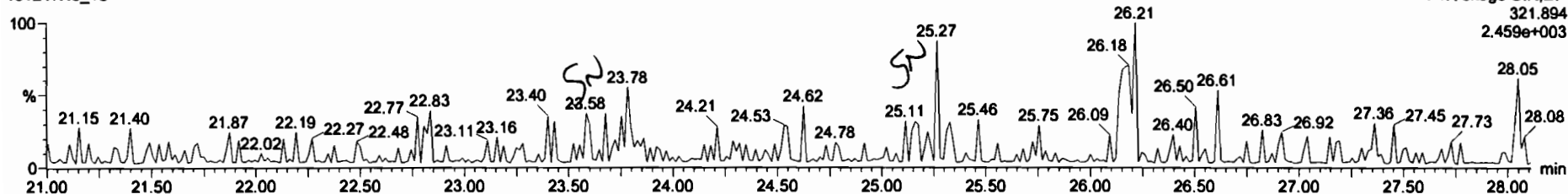
Name: 191217K3\_13, Date: 18-Dec-2019, Time: 11:45:38, ID: 1903655-12 PDI-045SC-A-13-13.6-191010 13.98, Description: PDI-045SC-A-13-13.6-191010

**2,3,7,8-TCDD**

191217K3\_13

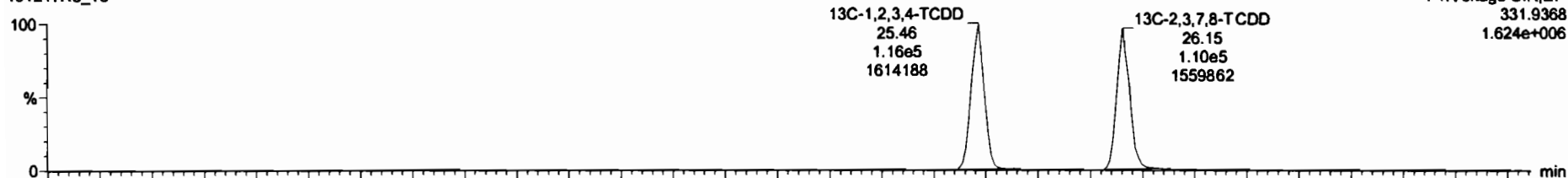


191217K3\_13

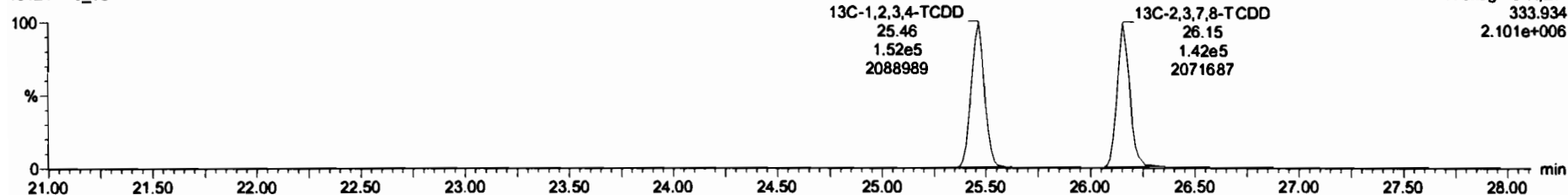


**13C-2,3,7,8-TCDD**

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191217K3\_13



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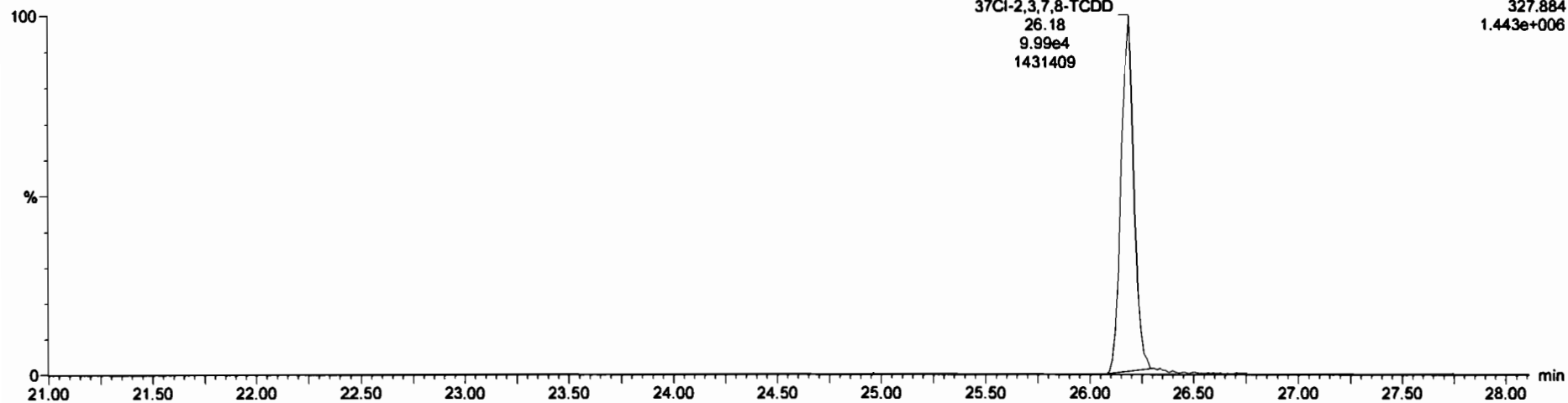
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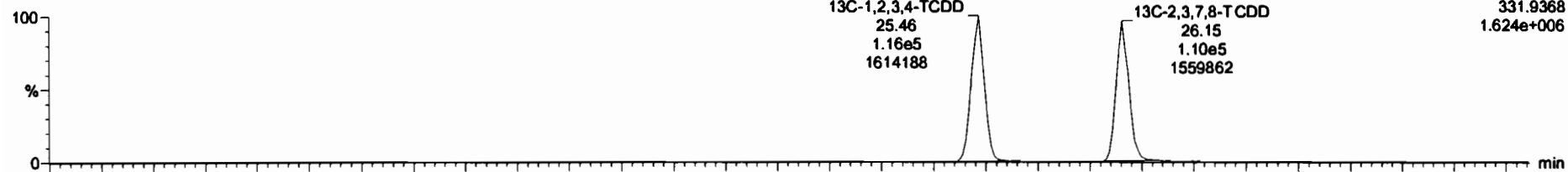
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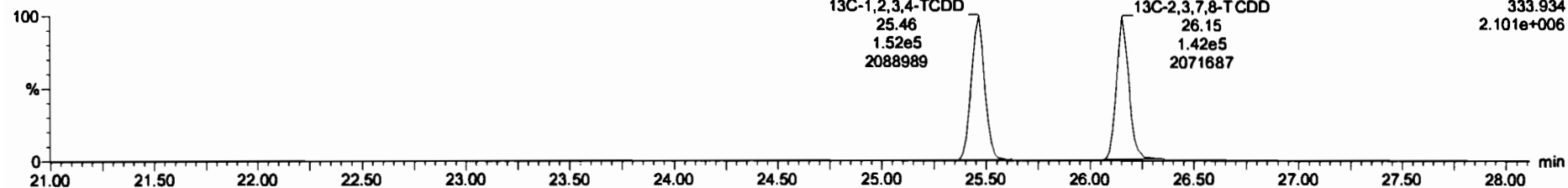


**13C-1,2,3,4-TCDD**

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191217K3\_13





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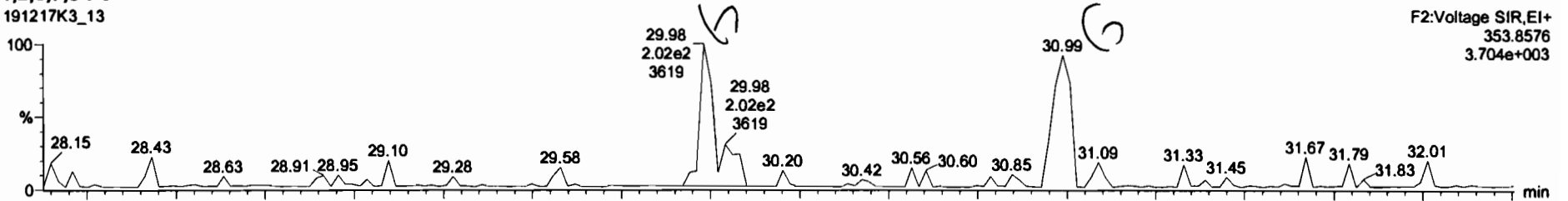
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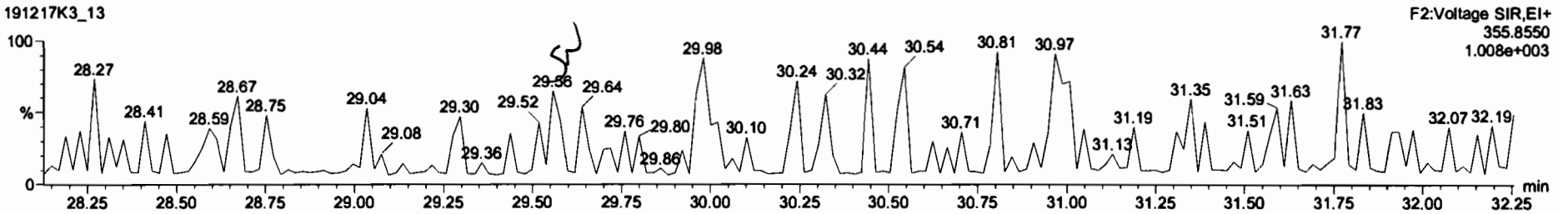
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**1,2,3,7,8-PeCDD**

191217K3\_13

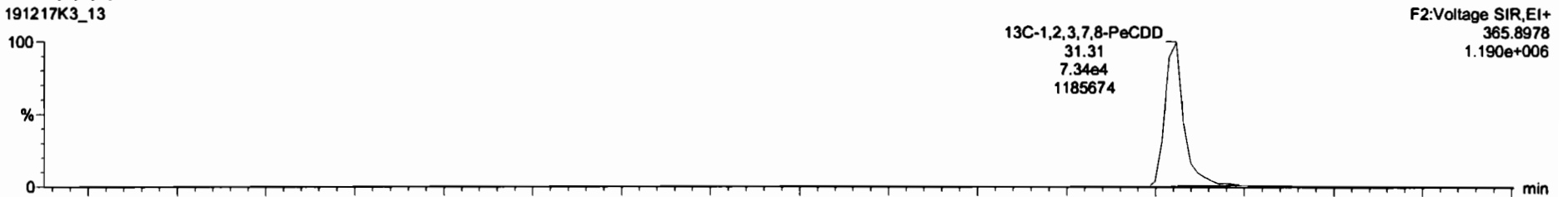


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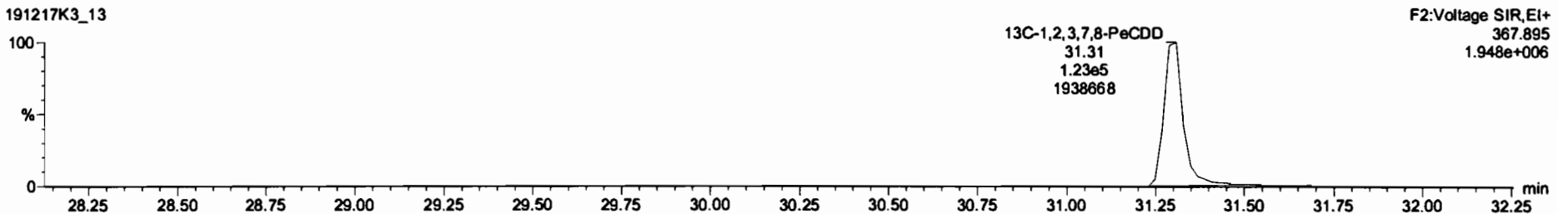


**13C-1,2,3,7,8-PeCDD**

191217K3\_13



191217K3\_13



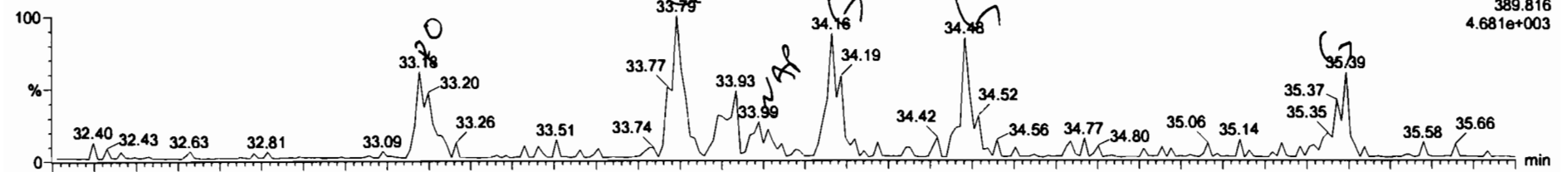
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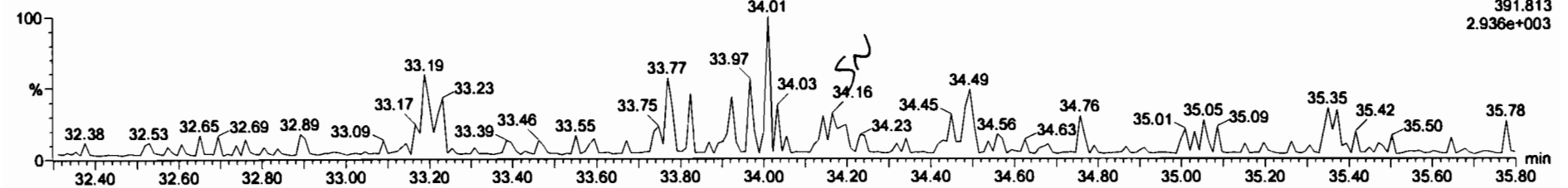
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1,2,3,4,7,8-HxCDD

191217K3\_13

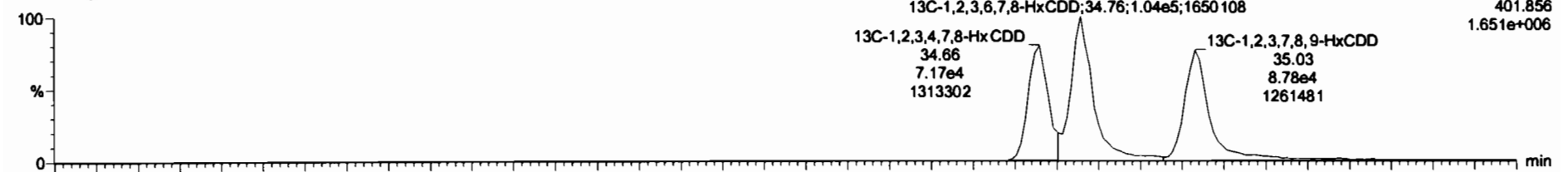


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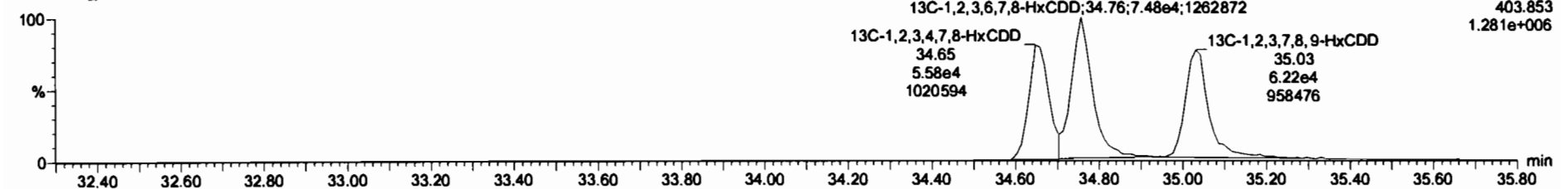


13C-1,2,3,4,7,8-HxCDD

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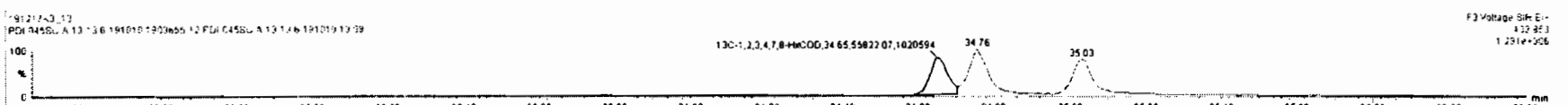
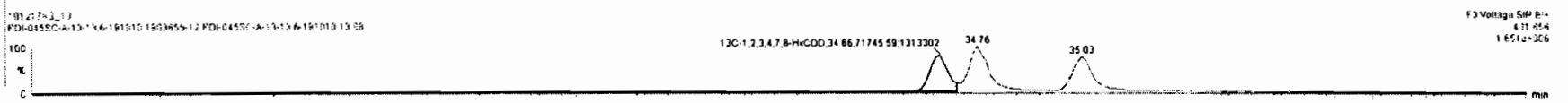
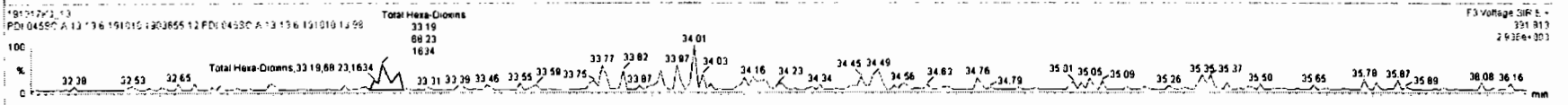
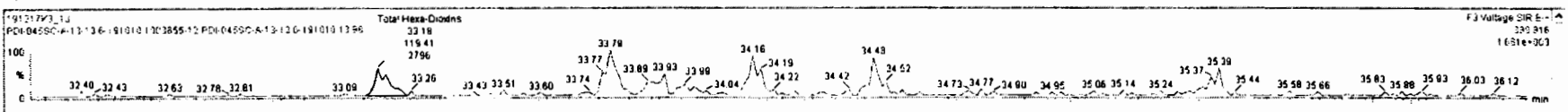


191217K3\_13



Name	Resp	RA	nly	RRF	WtAval	RT	RRT	Conc.	%Rec	DL	EMPC
33 13C-1,2,3,4,7,8-HxCDF	1.21e5	0.46	NO	0.5390	10.026	33.16	1.146	140	74.2	1.72	
34 13C-OCDF	3.26e5	0.92	NO	0.5825	10.026	42.02	1.200	303	91.0	1.49	
35 37C-2,3,7,8-TCDF	8.99e4			1.0695	10.026	26.18	1.028	69.6	87.2	0.186	
36 13C-1,2,3,4-TCDF	2.68e5	0.76	NO	1.0000	10.026	25.47	1.000	199	100	0.662	
37 13C-1,2,3,4-TCDF	4.89e5	0.76	NO	1.0000	10.026	23.57	1.000	199	100	0.738	
38 13C-1,2,3,4,6,8-HxCDF	3.02e5	0.51	NO	1.0000	10.026	34.17	1.000	199	100	1.26	
39 Total Tetra-Dioxins				0.9249	10.026					0.116	
40 Total Penta-Dioxins				0.9046	10.026					0.0673	
41 Total Hexa-Dioxins				0.8675	10.026			0.000		0.101	0.207
42 Total Hepta-Dioxins				1.0375	10.026					0.158	
43 Total Tetra-Furans				0.8376	10.026					0.0367	
44 1st Func. Penta-Furans				0.8782	10.026					0.0133	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Dioxins	33.18	1.194e2	6.823e1	1.75	YES	0.20694	0.00000



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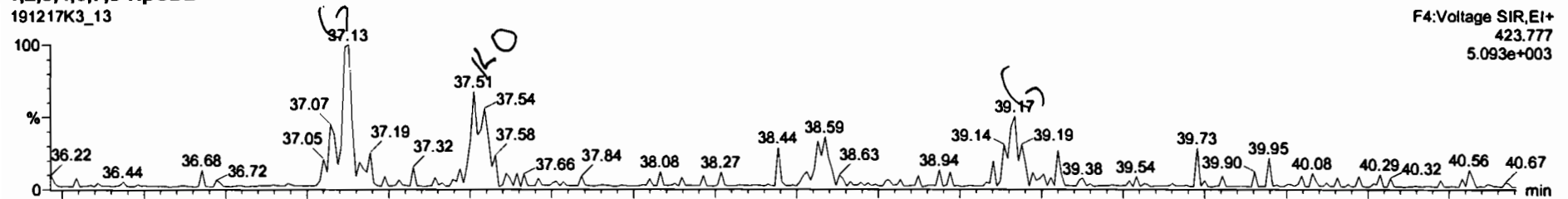
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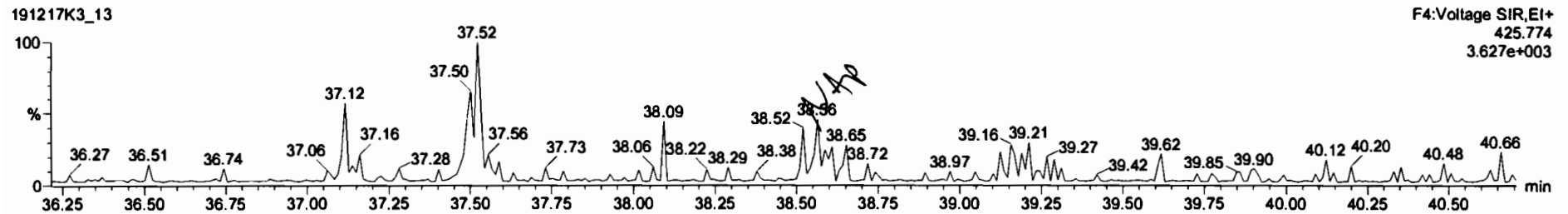
Name: 191217K3\_13, Date: 18-Dec-2019, Time: 11:45:38, ID: 1903655-12 PDI-045SC-A-13-13.6-191010 13.98, Description: PDI-045SC-A-13-13.6-191010

1,2,3,4,6,7,8-HpCDD

191217K3\_13

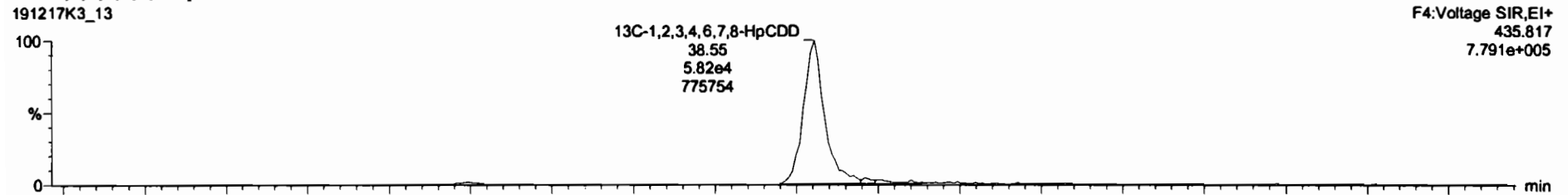


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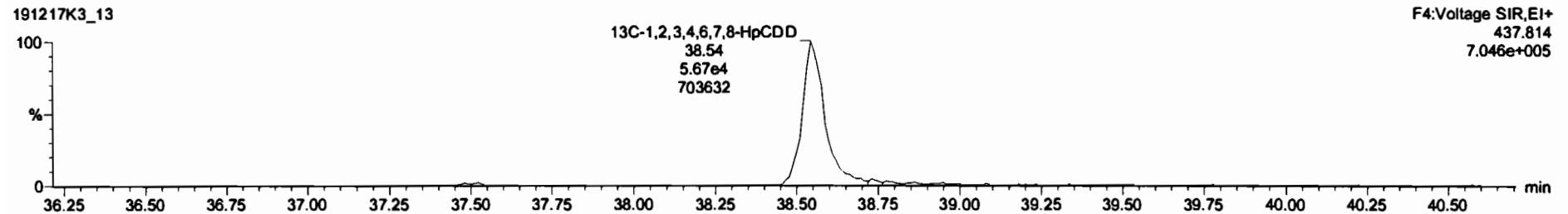


13C-1,2,3,4,6,7,8-HpCDD

191217K3\_13

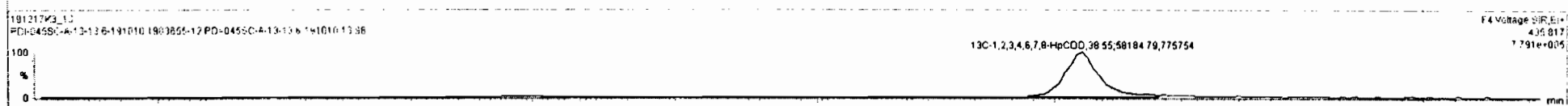
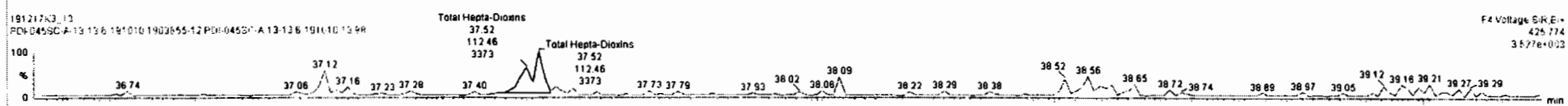
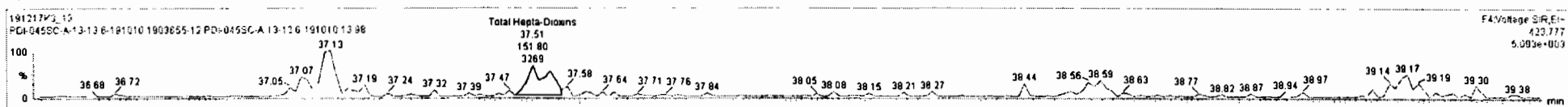


191217K3\_13



Name	Resp	RA	n/y	RRF	wtVol	RT	PRT	Conc	%Rec	DL	EMPC
33 13C-1,2,3,4,7,8-HpCDF	1.21e5	0.46	NO	0.5390	10.026	39.16	1.146	148	74.2	1.72	
34 13C-OCDF	3.26e5	0.92	NO	0.5925	10.026	42.02	1.230	363	91.0	1.49	
35 37Cl-2,3,7,8-TCDD	9.99e4			1.0695	10.026	26.18	1.028	69.6	87.2	0.166	
36 13C-1,2,3,4-TCDD	2.68e5	0.76	NO	1.0000	10.026	25.47	1.000	199	100	0.662	
37 13C-1,2,3,4-TCDF	4.89e5	0.78	NO	1.0000	10.026	23.57	1.000	199	100	0.728	
38 13C-1,2,3,4,6,8-HxCDF	3.02e5	0.51	NO	1.0000	10.026	34.17	1.000	199	100	1.26	
39 Total Tetra-Dioxins				0.9249	10.026					0.118	
40 Total Penta-Dioxins				0.9046	10.026					0.0673	
41 Total Hexa-Dioxins				0.9675	10.026			0.000		0.101	0.207
42 Total Hepta-Dioxins				1.0375	10.026			0.000		0.158	0.384
43 Total Tetra-Furans				0.9376	10.026					0.0367	
44 1st Func. Penta-Furans				0.9762	10.026					0.0133	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hepta-Dioxins	37.51	1.518e2	1.125e2	1.35	YES	0.38410	0.00000

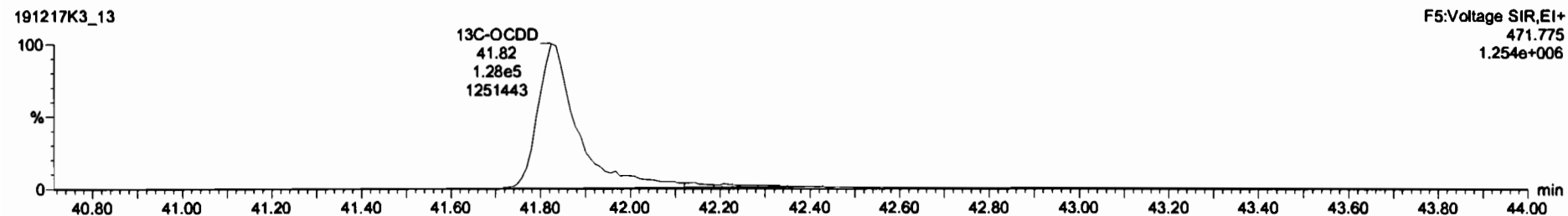
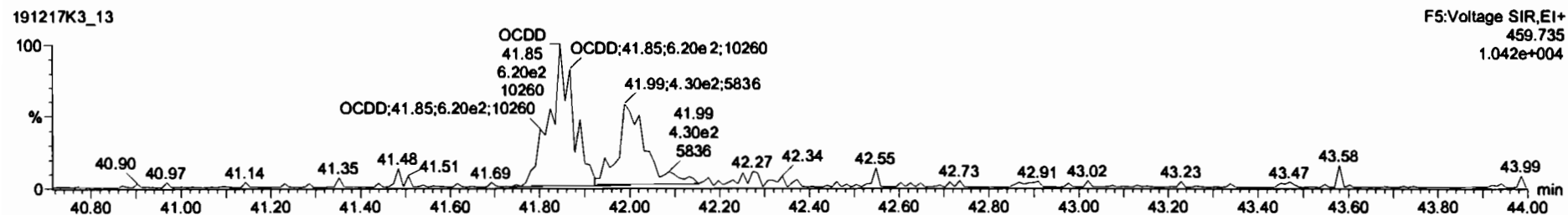
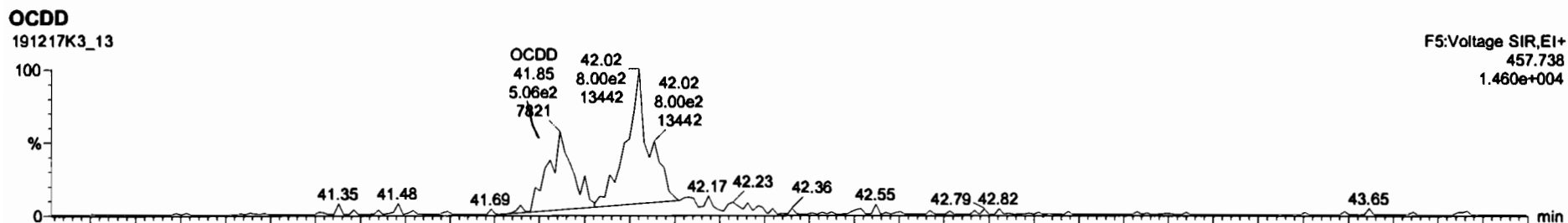


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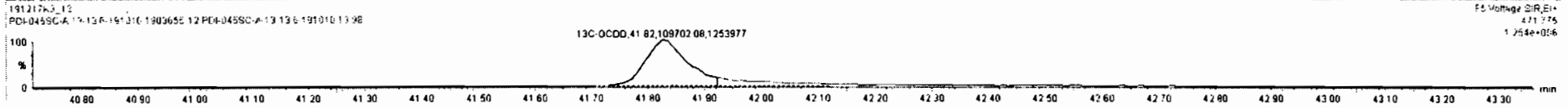
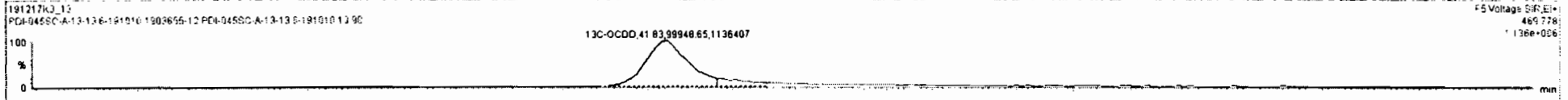
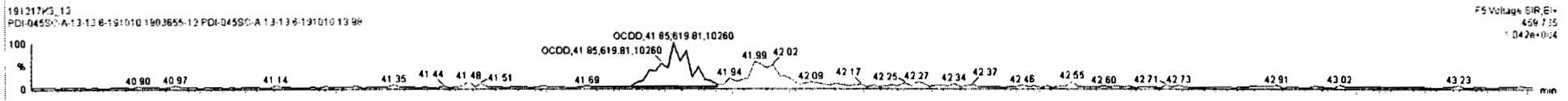
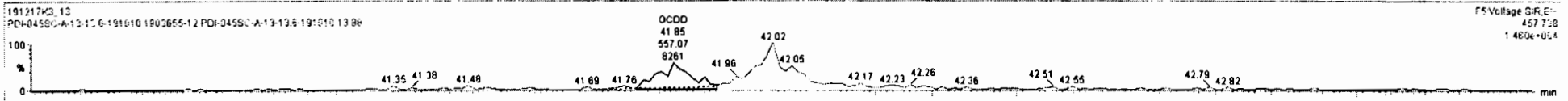
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#	Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.9249	10.026					0.198	
2	1,2,3,7,8-PeCDD			NO	0.9046	10.026					0.141	
3	1,2,3,4,7,8-HxCDD			NO	1.0691	10.026					0.211	
4	1,2,3,6,7,8-HxCDD			NO	0.9875	10.026					0.192	
5	1,2,3,7,8,9-HxCDD			NO	0.9778	10.026					0.250	
6	1,2,3,4,6,7,8-HpCDD			NO	1.0325	10.026					0.346	
7	OCDD	1.18e3	0.90	NO	0.9718	10.028	41.85	1.000	2.30		0.529	2.30
8	2,3,7,8-TCDF			NO	0.9376	10.026					0.0523	
9	1,2,3,7,8-PeCDF			NO	0.9762	10.026					0.0663	
10	2,3,4,7,8-PeCDF			NO	1.0049	10.026					0.0587	
11	1,2,3,4,7,8-HxCDF			NO	1.2434	10.026					0.0463	
12	1,2,3,6,7,8-HxCDF			NO	1.0950	10.026					0.0471	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1							



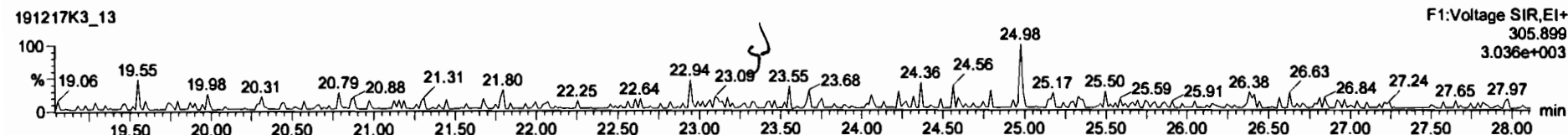
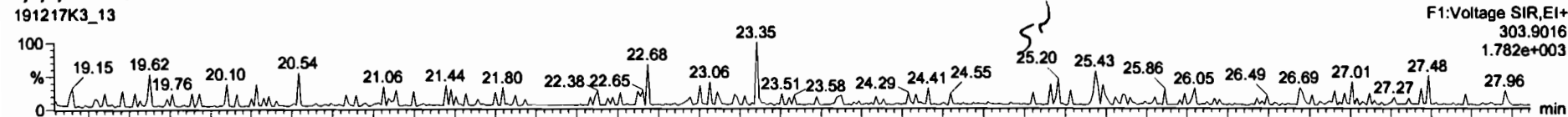
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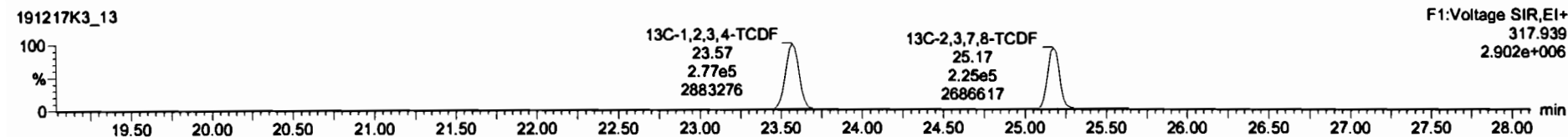
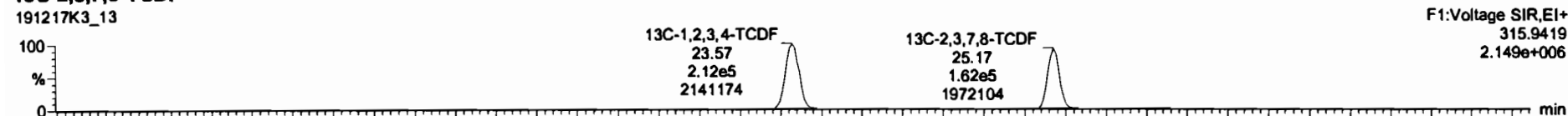
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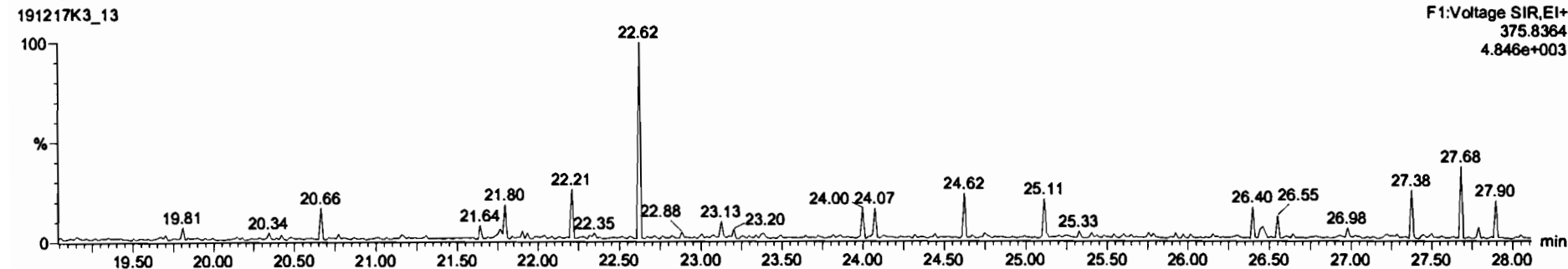
**2,3,7,8-TCDF**



**13C-2,3,7,8-TCDF**



**DPE1**





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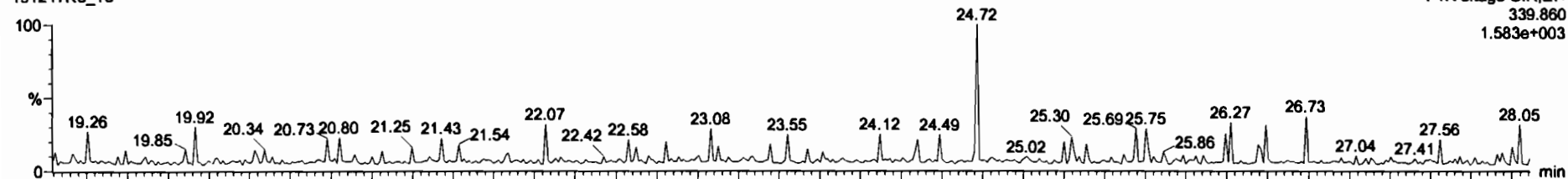
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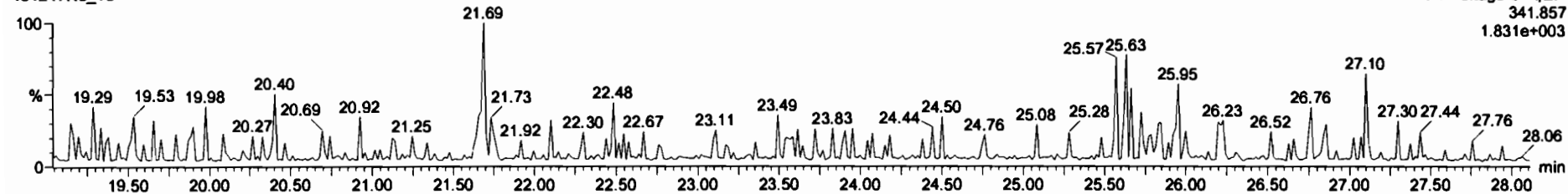
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1st Func. Penta-Furans

191217K3\_13

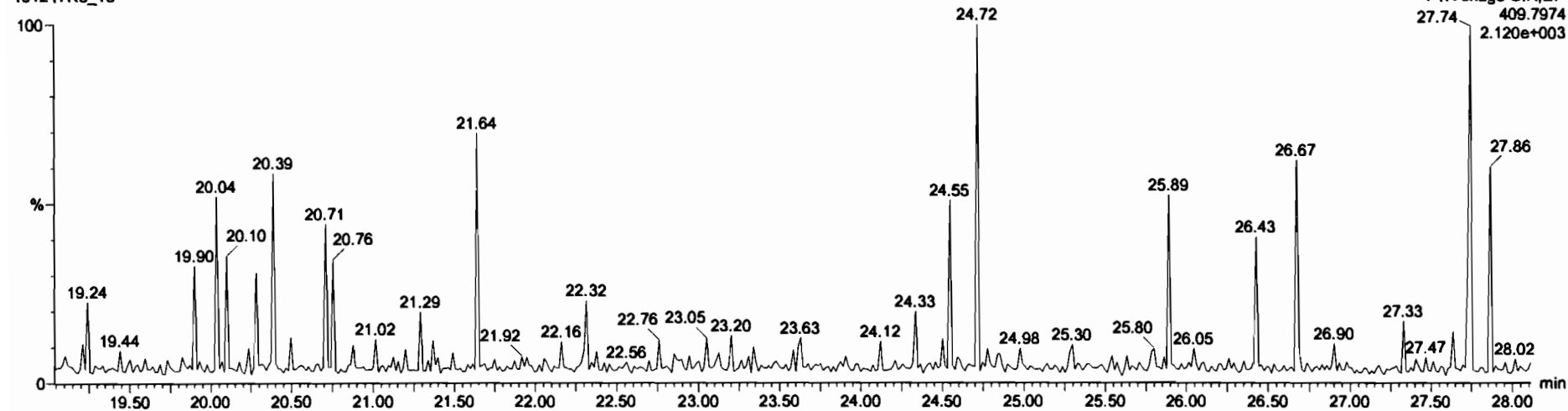


191217K3\_13



DPE6

191217K3\_13



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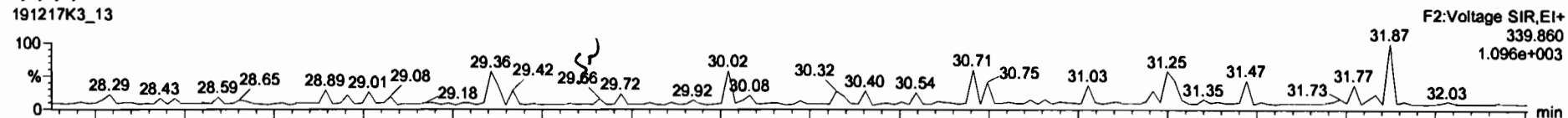
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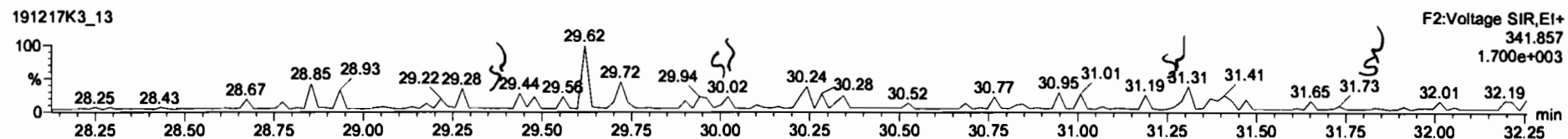
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### 1,2,3,7,8-PeCDF

191217K3\_13

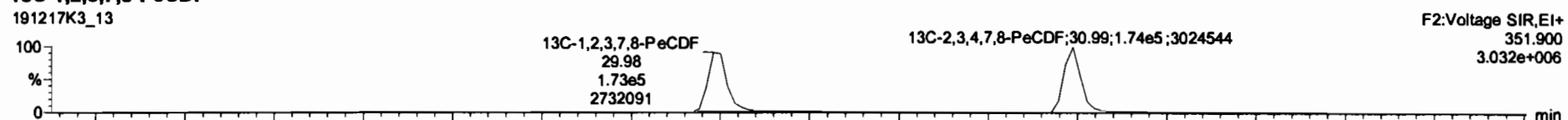


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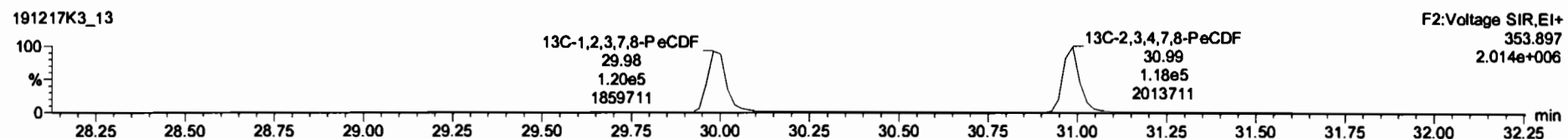


### 13C-1,2,3,7,8-PeCDF

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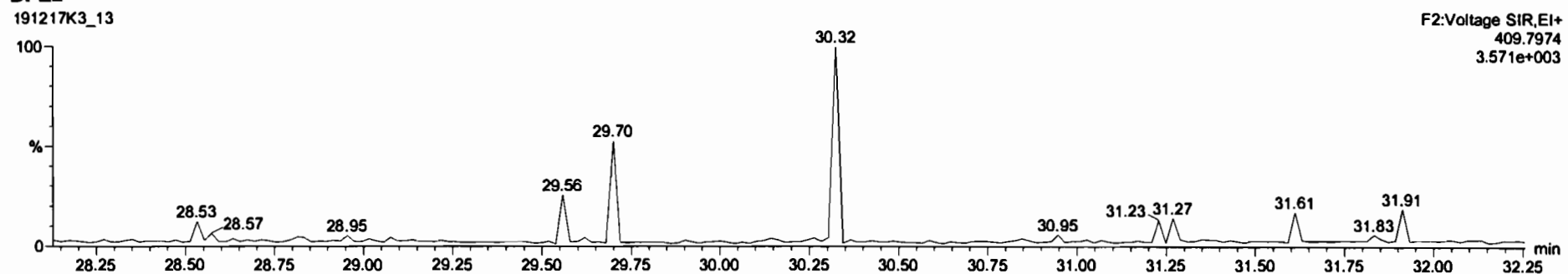


191217K3\_13



### DPE2

191217K3\_13



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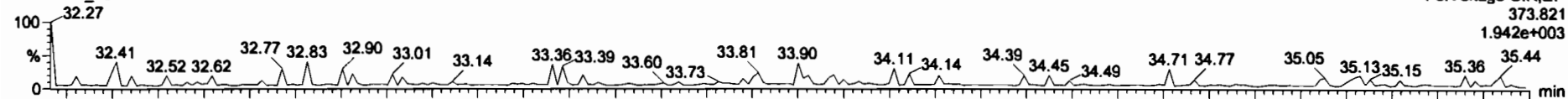
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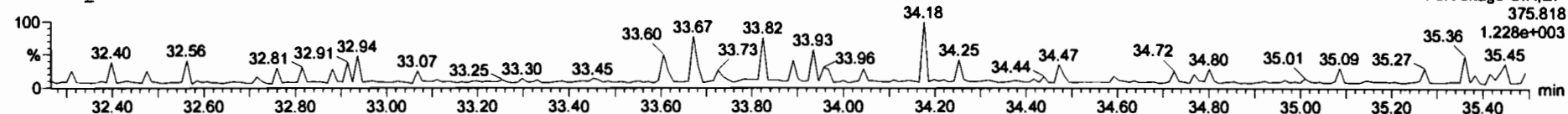
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**1,2,3,4,7,8-HxCDF**

191217K3\_13

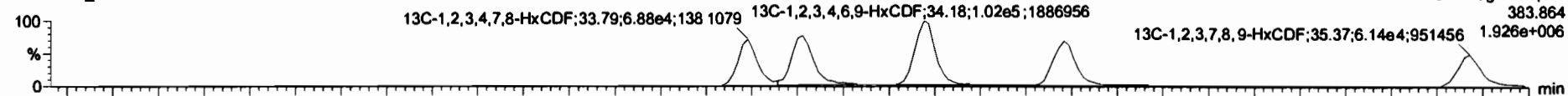


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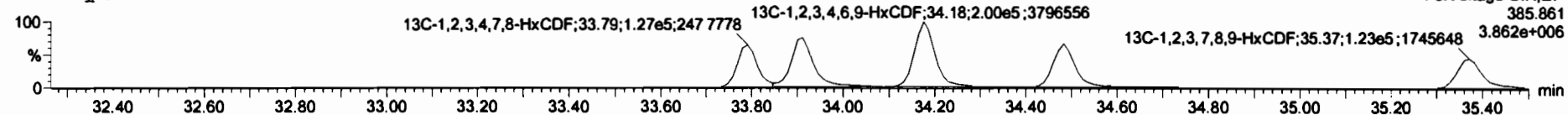


**13C-1,2,3,4,7,8-HxCDF**

191217K3\_13

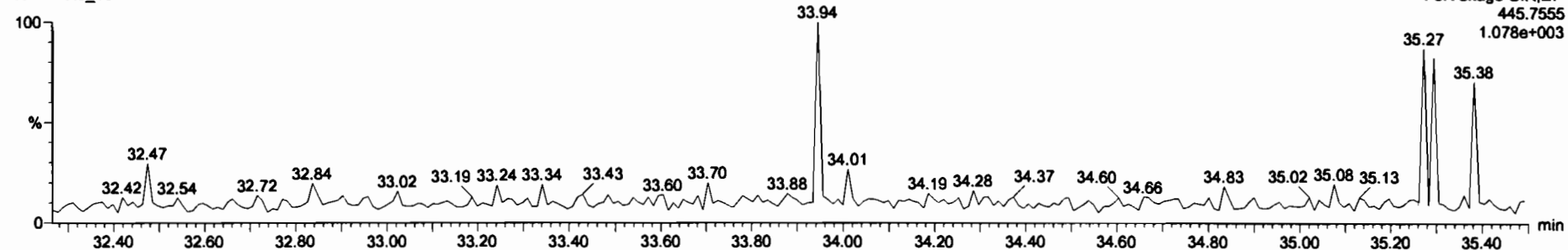


191217K3\_13



**DPE3**

191217K3\_13



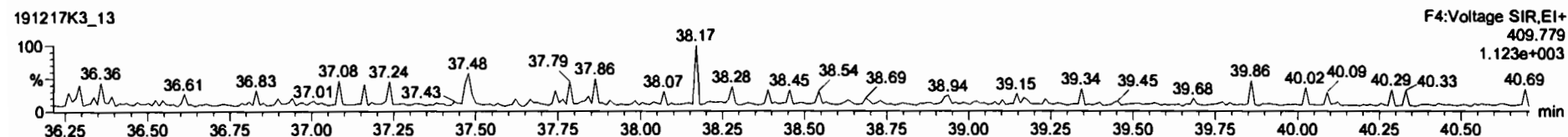
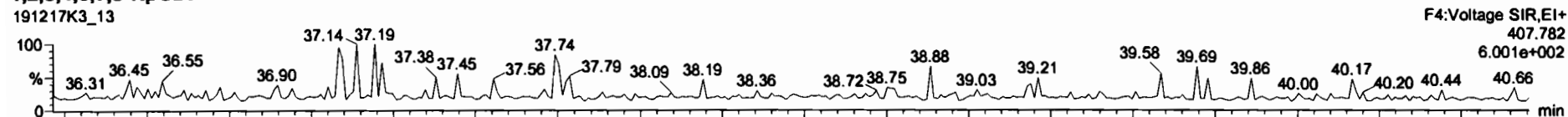
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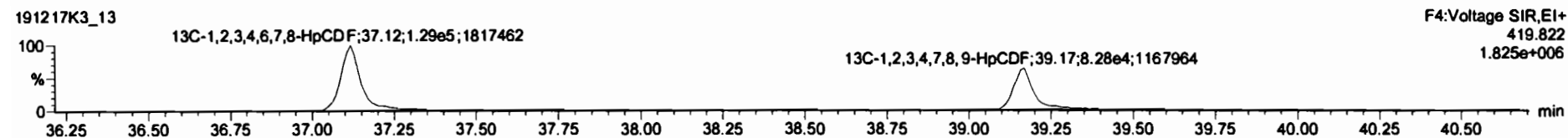
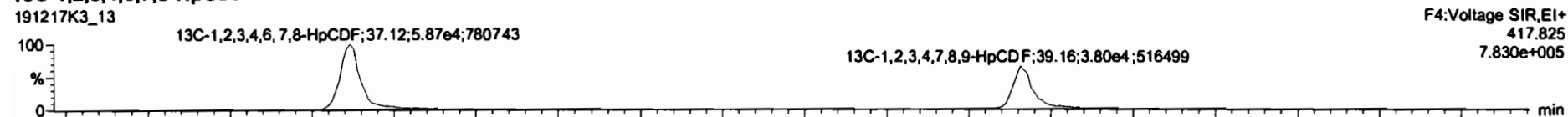
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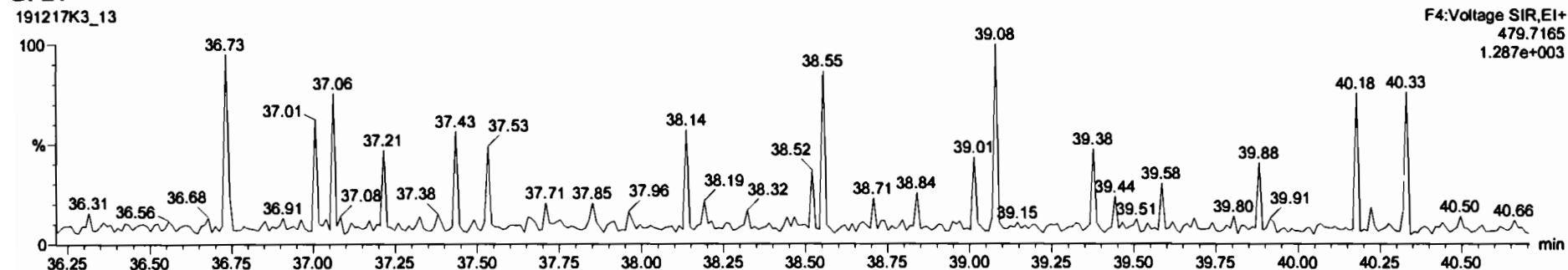
### 1,2,3,4,6,7,8-HpCDF



### 13C-1,2,3,4,6,7,8-HpCDF



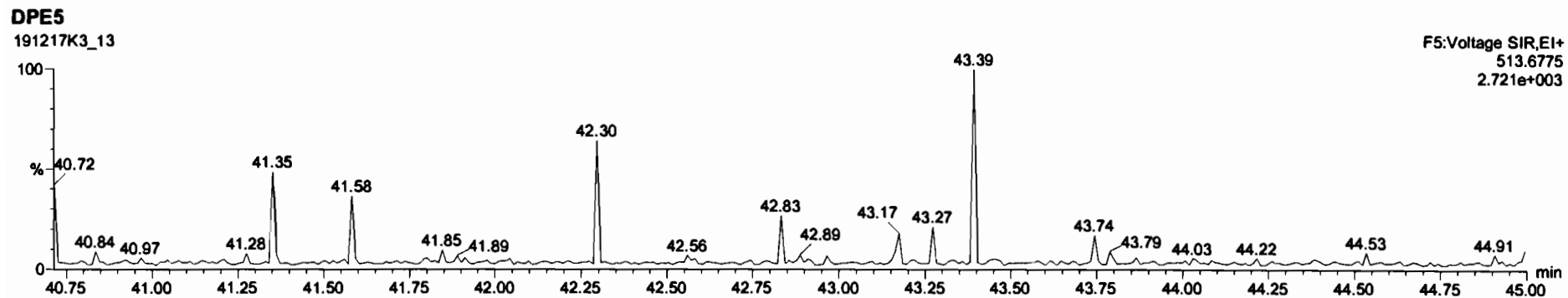
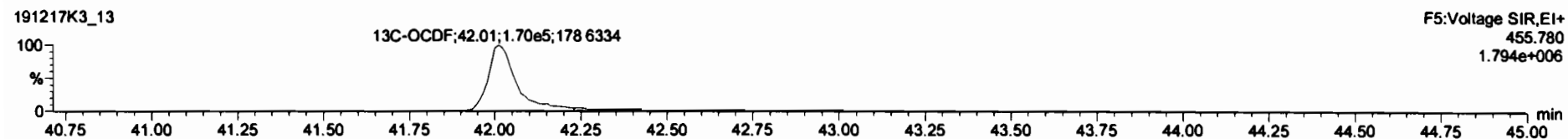
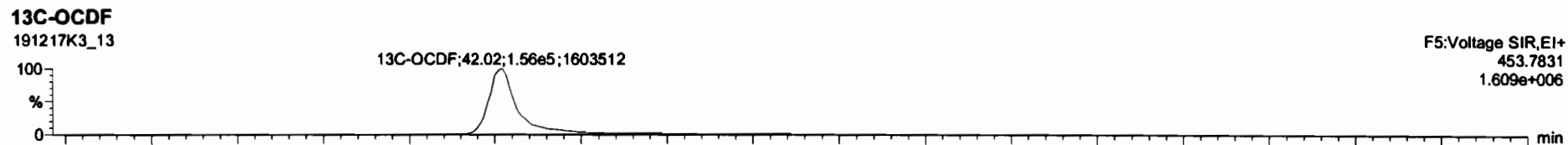
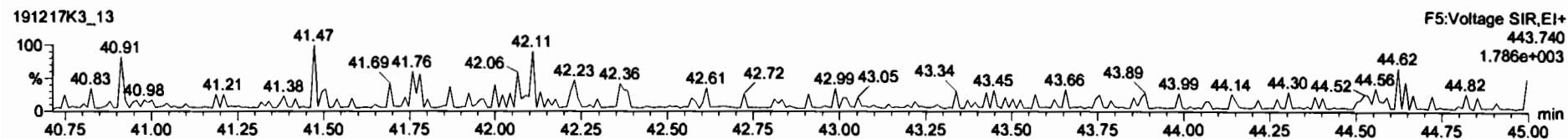
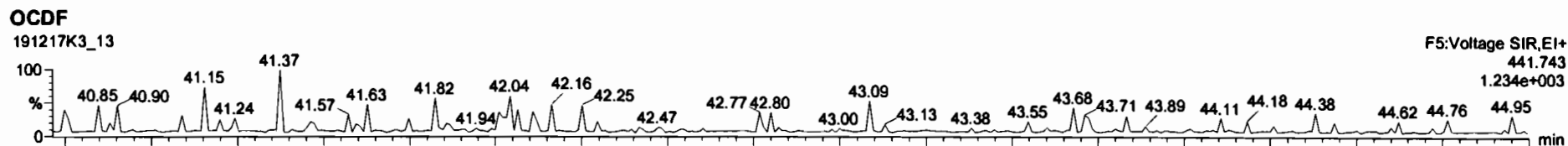
### DPE4



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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_13, Date: 18-Dec-2019, Time: 11:45:38, ID: 1903655-12 PDI-045SC-A-13-13.6-191010 13.98, Description: PDI-045SC-A-13-13.6-191010

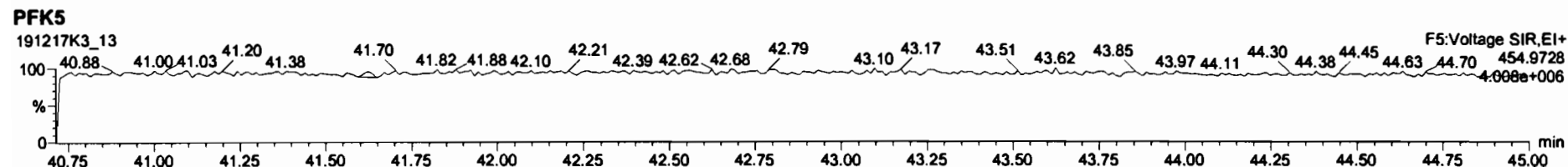
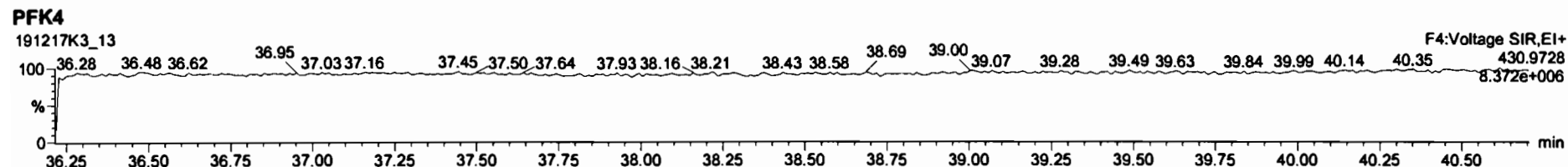
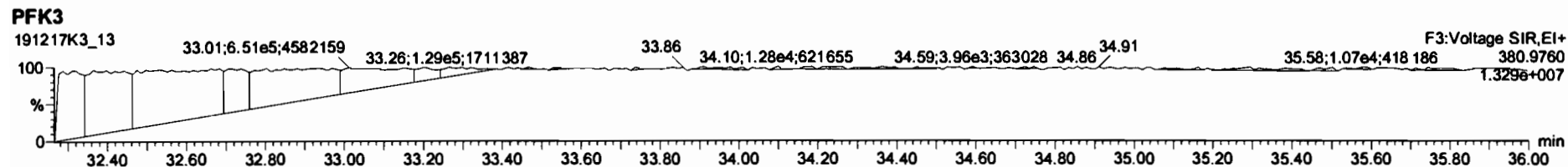
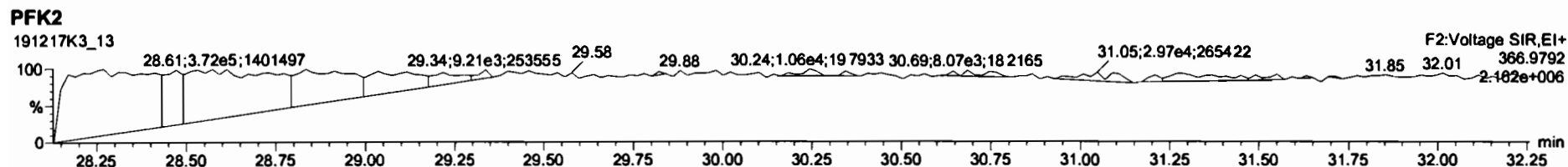
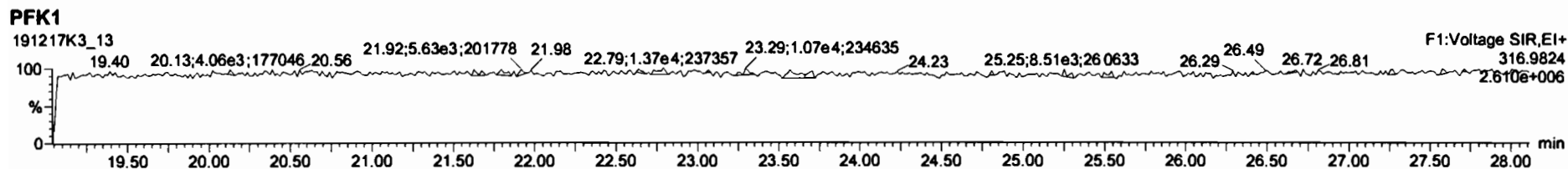


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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_13, Date: 18-Dec-2019, Time: 11:45:38, ID: 1903655-12 PDI-045SC-A-13-13.6-191010 13.98, Description: PDI-045SC-A-13-13.6-191010



Dataset: U:\VG11.PRO\Results\191217K3\191217K3-14.qld

Last Altered: Tuesday, December 24, 2019 12:13:10 PM Pacific Standard Time  
Printed: Tuesday, December 24, 2019 12:13:44 PM Pacific Standard Time

*HZ 12-24-19*  
*MW*  
*1/6/20*

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57  
Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_14, Date: 18-Dec-2019, Time: 12:35:17, ID: 1903655-13 PDI-067SC-A-12-13-191010 14.56, Description: PDI-067SC-A-12-13-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.925	10.002	26.184		1.001				0.211	
2	2 1,2,3,7,8-PeCDD			NO	0.905	10.002	31.311		1.001				0.235	
3	3 1,2,3,4,7,8-HxCDD			NO	1.07	10.002	34.657		1.000				0.295	
4	4 1,2,3,6,7,8-HxCDD			NO	0.967	10.002	34.746		1.000				0.283	
5	5 1,2,3,7,8,9-HxCDD			NO	0.978	10.002	35.055		1.001				0.349	
6	6 1,2,3,4,6,7,8-HpCDD	3.49e3	1.19	NO	1.04	10.002	38.544	38.55	1.000	1.001	6.9985		0.583	7.00
7	7 OCDD	2.08e4	0.92	NO	0.972	10.002	41.813	41.82	1.000	1.000	61.268		1.31	61.3
8	8 2,3,7,8-TCDF	5.66e2	0.96	YES	0.938	10.002	25.184	25.17	1.001	1.001	0.32796		0.155	0.296
9	9 1,2,3,7,8-PeCDF	6.14e2	1.31	YES	0.976	10.002	30.002	30.00	1.001	1.001	0.46834		0.0918	0.438
10	10 2,3,4,7,8-PeCDF	3.49e2	1.59	NO	1.00	10.002	30.998	31.01	1.001	1.001	0.25680		0.0914	0.257
11	11 1,2,3,4,7,8-HxCDF	6.00e2	1.22	NO	1.24	10.002	33.780	33.79	1.000	1.000	0.47823		0.149	0.478
12	12 1,2,3,6,7,8-HxCDF	2.01e2	1.18	NO	1.10	10.002	33.911	33.90	1.000	1.000	0.13795		0.140	0.138
13	13 2,3,4,6,7,8-HxCDF			NO	1.18	10.002	34.506		1.001				0.173	
14	14 1,2,3,7,8,9-HxCDF			NO	1.07	10.002	35.360		1.000				0.253	
15	15 1,2,3,4,6,7,8-HpCDF	3.83e2	1.54	YES	1.13	10.002	37.142	37.12	1.001	1.000	0.42955		0.254	0.346
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.26	10.002	39.157		1.000				0.335	
17	17 OCDF	1.06e3	1.04	YES	1.10	10.002	41.999	42.02	1.000	1.001	1.8094		0.336	1.67
18	18 13C-2,3,7,8-TCDD	2.25e5	0.77	NO	1.05	10.002	26.163	26.15	1.027	1.027	153.87	77.0	0.696	
19	19 13C-1,2,3,7,8-PeCDD	1.86e5	0.62	NO	0.743	10.002	31.309	31.29	1.230	1.229	180.11	90.1	1.12	
20	20 13C-1,2,3,4,7,8-HxCDD	1.25e5	1.33	NO	0.646	10.002	34.635	34.65	1.014	1.014	116.52	58.3	1.15	
21	21 13C-1,2,3,6,7,8-HxCDD	1.66e5	1.39	NO	0.777	10.002	34.735	34.75	1.017	1.017	128.91	64.5	0.961	
22	22 13C-1,2,3,7,8,9-HxCDD	1.37e5	1.36	NO	0.659	10.002	35.008	35.02	1.025	1.025	125.73	62.9	1.13	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.61e4	1.02	NO	0.534	10.002	38.506	38.53	1.127	1.128	108.62	54.3	0.843	
24	24 13C-OCDD	1.40e5	0.93	NO	0.470	10.002	41.786	41.81	1.223	1.224	179.28	44.8	1.69	
25	25 13C-2,3,7,8-TCDF	3.68e5	0.75	NO	0.977	10.002	25.175	25.16	0.989	0.988	157.94	79.0	0.719	
26	26 13C-1,2,3,7,8-PeCDF	2.69e5	1.44	NO	0.778	10.002	29.998	29.98	1.178	1.177	144.75	72.4	1.10	
27	27 13C-2,3,4,7,8-PeCDF	2.71e5	1.60	NO	0.750	10.002	30.988	30.97	1.217	1.216	151.32	75.7	1.14	
28	28 13C-1,2,3,4,7,8-HxCDF	2.02e5	0.54	NO	0.845	10.002	33.775	33.78	0.989	0.989	144.12	72.1	1.43	
29	29 13C-1,2,3,6,7,8-HxCDF	2.66e5	0.50	NO	1.03	10.002	33.891	33.90	0.992	0.992	156.48	78.3	1.18	
30	30 13C-2,3,4,6,7,8-HxCDF	2.17e5	0.51	NO	0.893	10.002	34.465	34.47	1.009	1.009	146.61	73.3	1.36	
31	31 13C-1,2,3,7,8,9-HxCDF	1.67e5	0.51	NO	0.734	10.002	35.367	35.36	1.035	1.035	137.73	68.9	1.65	

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-14.qld

Last Altered: Tuesday, December 24, 2019 12:13:10 PM Pacific Standard Time  
Printed: Tuesday, December 24, 2019 12:13:44 PM Pacific Standard Time

Name: 191217K3\_14, Date: 18-Dec-2019, Time: 12:35:17, ID: 1903655-13 PDI-067SC-A-12-13-191010 14.56, Description: PDI-067SC-A-12-13-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	1.58e5	0.44	NO	0.754	10.002	37.082	37.10	1.085	1.086	126.24	63.1	0.975	
33	13C-1,2,3,4,7,8,9-HpCDF	1.03e5	0.42	NO	0.539	10.002	39.108	39.16	1.145	1.146	115.82	57.9	1.36	
34	13C-OCDF	2.12e5	0.88	NO	0.593	10.002	41.974	42.00	1.229	1.229	216.11	54.0	1.31	
35	37Cl-2,3,7,8-TCDD	1.09e5			1.07	10.002	26.183	26.17	1.028	1.028	73.376	91.7	0.121	
36	13C-1,2,3,4-TCDD	2.78e5	0.78	NO	1.00	10.002	25.450	25.47	1.000	1.000	199.95	100	0.731	
37	13C-1,2,3,4-TCDF	4.77e5	0.74	NO	1.00	10.002	23.550	23.57	1.000	1.000	199.95	100	0.702	
38	13C-1,2,3,4,6,9-HxCDF	3.31e5	0.52	NO	1.00	10.002	34.160	34.16	1.000	1.000	199.95	100	1.21	
39	Total Tetra-Dioxins				0.925	10.002	24.620		0.000				0.133	
40	Total Penta-Dioxins				0.905	10.002	29.960		0.000				0.151	
41	Total Hexa-Dioxins				0.967	10.002	33.635		0.000		0.91739		0.318	1.46
42	Total Hepta-Dioxins				1.04	10.002	38.800		0.000		19.932		0.583	19.9
43	Total Tetra-Furans				0.938	10.002	23.610		0.000		0.12599		0.155	1.17
44	1st Func. Penta-Furans				0.976	10.002	27.040		0.000				0.0204	
45	Total Penta-Furans				0.976	10.002	29.275		0.000		0.52564		0.0929	1.01
46	Total Hexa-Furans				1.18	10.002	33.555		0.000		0.61618		0.167	0.773
47	Total Hepta-Furans				1.13	10.002	37.835		0.000		1.2289		0.301	1.57



Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-14.qld

Last Altered: Tuesday, December 24, 2019 12:13:10 PM Pacific Standard Time

Printed: Tuesday, December 24, 2019 12:13:44 PM Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_14, Date: 18-Dec-2019, Time: 12:35:17, ID: 1903655-13 PDI-067SC-A-12-13-191010 14.56, Description: PDI-067SC-A-12-13-191010

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	Total Hexa-Dioxins	33.20	7.938e3	7.887e3	3.678e2	2.651e2	1.39	NO	6.329e2	0.91739	0.91739	0.318
2	Total Hexa-Dioxins	33.99	3.632e3	3.619e3	2.057e2	1.998e2	1.03	YES	0.000e0	0.00000	0.53852	0.318

**Hepta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	Total Hepta-Dioxins	37.51	5.905e4	4.377e4	3.365e3	3.083e3	1.09	NO	6.448e3	12.934	12.934	0.583
2	1,2,3,4,6,7,8-HpCDD	38.55	2.582e4	2.663e4	1.895e3	1.593e3	1.19	NO	3.489e3	6.9985	6.9985	0.583

**Tetra-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	Total Tetra-Furans	20.89	2.095e3	1.920e3	9.952e1	1.596e2	0.62	YES	0.000e0	0.00000	0.13245	0.155
2	Total Tetra-Furans	21.81	1.417e3	2.946e3	9.839e1	1.192e2	0.83	NO	2.176e2	0.12599	0.12599	0.155
3	Total Tetra-Furans	24.15	6.612e3	7.209e3	4.571e2	4.394e2	1.04	YES	0.000e0	0.00000	0.45033	0.155
4	2,3,7,8-TCDF	25.17	5.536e3	6.829e3	2.779e2	2.885e2	0.96	YES	5.665e2	0.00000	0.29566	0.155
5	Total Tetra-Furans	25.22	7.275e3	5.570e3	1.928e2	1.619e2	1.19	YES	0.000e0	0.00000	0.16589	0.155

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-14.qld

Last Altered: Tuesday, December 24, 2019 12:13:10 PM Pacific Standard Time  
 Printed: Tuesday, December 24, 2019 12:13:44 PM Pacific Standard Time

Name: 191217K3\_14, Date: 18-Dec-2019, Time: 12:35:17, ID: 1903655-13 PDI-067SC-A-12-13-191010 14.56, Description: PDI-067SC-A-12-13-191010

**Penta-Furans function 1**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Penta-Furans	29.01	2.907e3	2.301e3	2.161e2	1.379e2	1.57	NO	3.540e2	0.26885	0.26885	0.0929
2 Total Penta-Furans	29.80	8.800e2	1.089e3	3.835e1	4.051e1	0.95	YES	0.000e0	0.00000	0.047918	0.0929
3 1,2,3,7,8-PeCDF	30.00	7.553e3	4.551e3	3.489e2	2.654e2	1.31	YES	6.142e2	0.00000	0.43763	0.0918
4 2,3,4,7,8-PeCDF	31.01	4.228e3	2.411e3	2.143e2	1.351e2	1.59	NO	3.494e2	0.25680	0.25680	0.0914

**Hexa-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hexa-Furans	32.80	3.830e3	2.290e3	1.284e2	8.810e1	1.46	YES	0.000e0	0.00000	0.15693	0.167
2 1,2,3,4,7,8-HxCDF	33.79	7.129e3	7.701e3	3.295e2	2.703e2	1.22	NO	5.998e2	0.47823	0.47823	0.149
3 1,2,3,6,7,8-HxCDF	33.90	3.459e3	1.838e3	1.088e2	9.219e1	1.18	NO	2.010e2	0.13795	0.13795	0.140

**Hepta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 1,2,3,4,6,7,8-HpCDF	37.12	5.489e3	3.064e3	2.317e2	1.510e2	1.54	YES	3.827e2	0.00000	0.34565	0.254
2 Total Hepta-Furans	37.71	9.319e3	8.000e3	4.502e2	4.561e2	0.99	NO	9.064e2	1.2289	1.2289	0.301

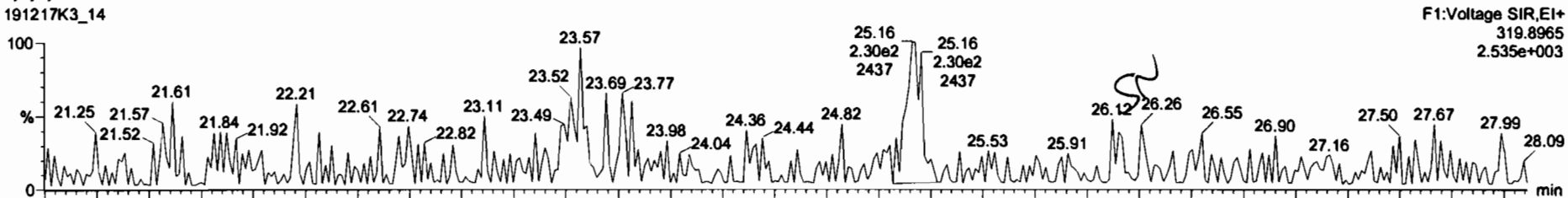
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

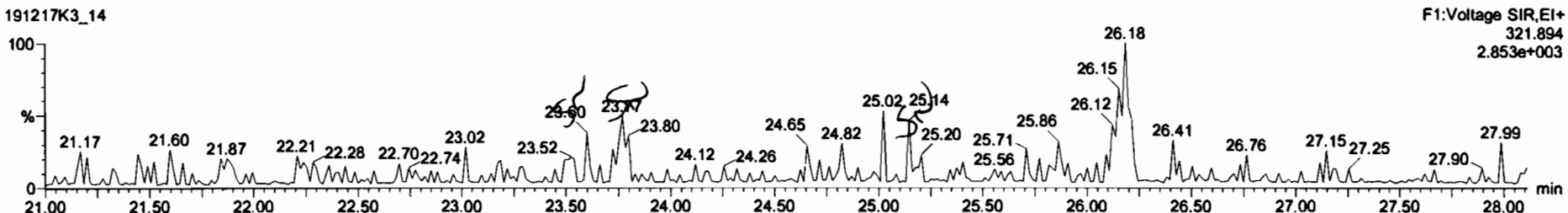
Name: 191217K3\_14, Date: 18-Dec-2019, Time: 12:35:17, ID: 1903655-13 PDI-067SC-A-12-13-191010 14.56, Description: PDI-067SC-A-12-13-191010

2,3,7,8-TCDD

191217K3\_14

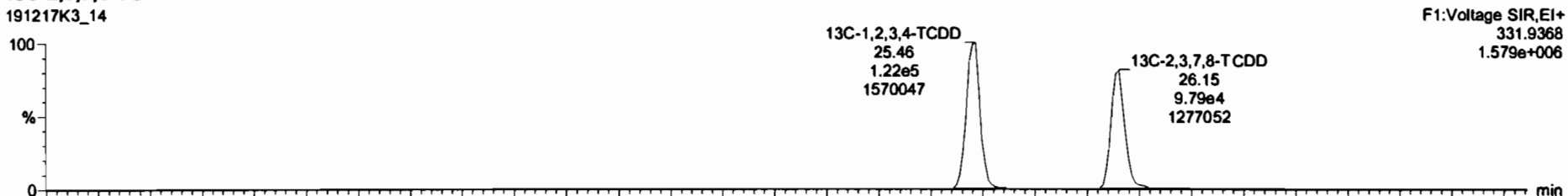


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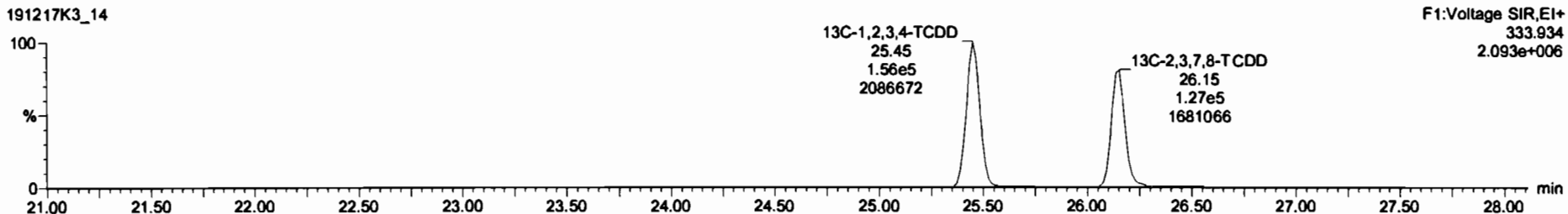


13C-2,3,7,8-TCDD

191217K3\_14



191217K3\_14



Dataset: Untitled

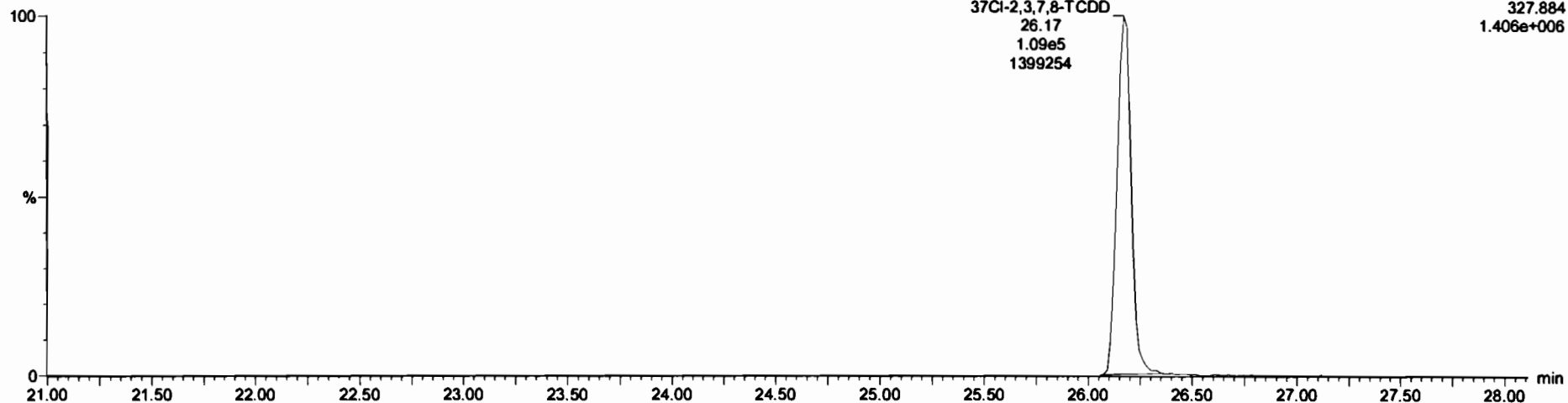
Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_14, Date: 18-Dec-2019, Time: 12:35:17, ID: 1903655-13 PDI-067SC-A-12-13-191010 14.56, Description: PDI-067SC-A-12-13-191010

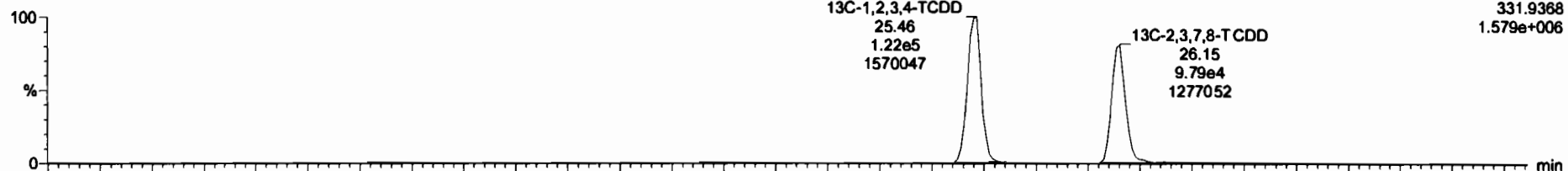
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191217K3\_14

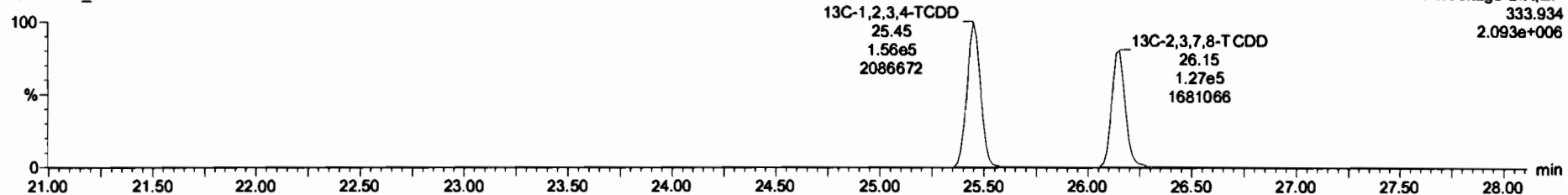


**13C-1,2,3,4-TCDD**

191217K3\_14



191217K3\_14



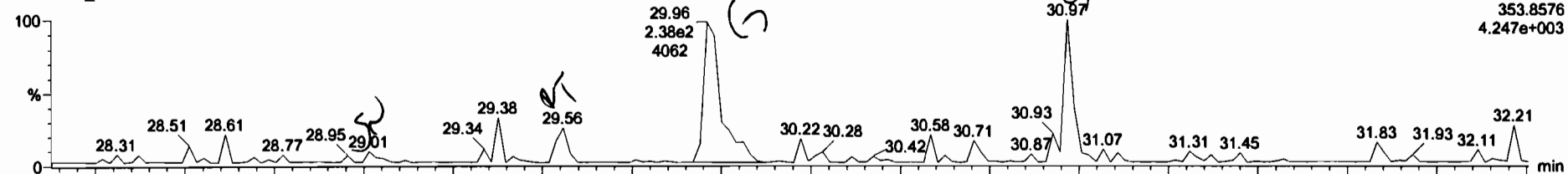
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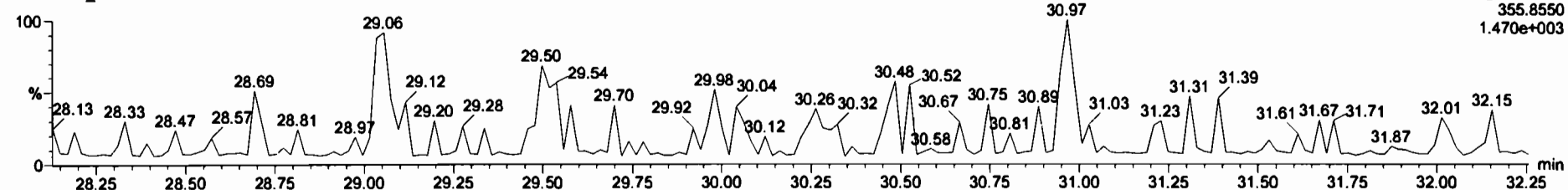
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1,2,3,7,8-PeCDD

191217K3\_14

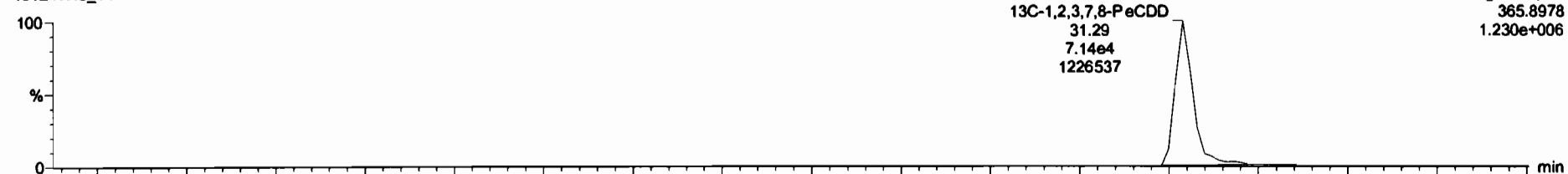


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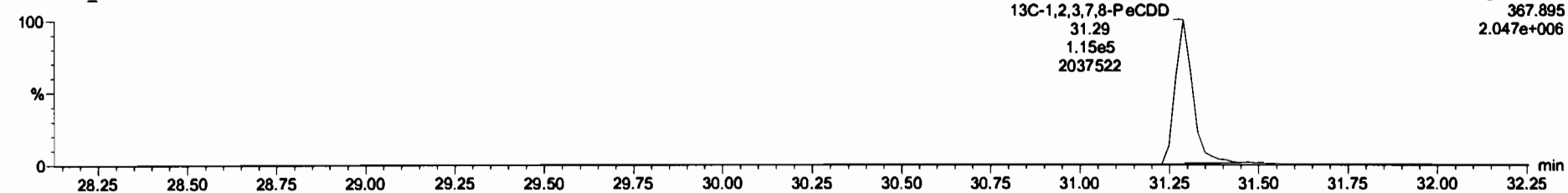


13C-1,2,3,7,8-PeCDD

191217K3\_14



191217K3\_14



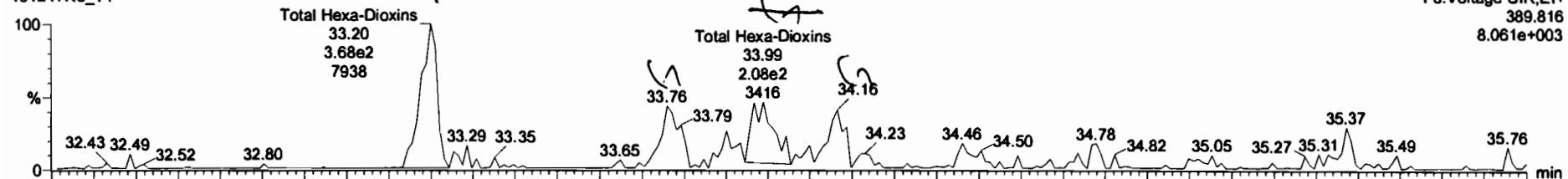
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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

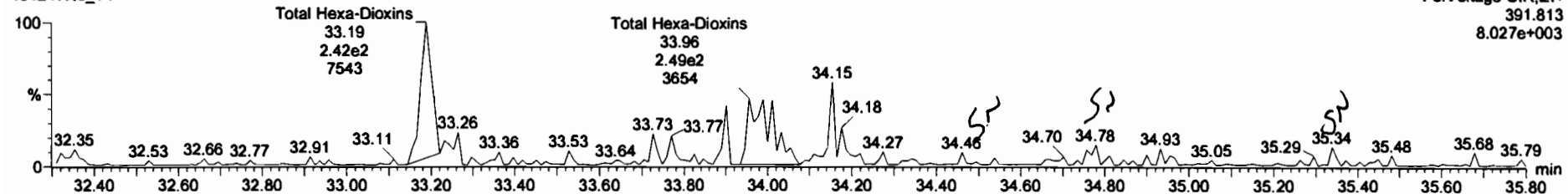
Name: 191217K3\_14, Date: 18-Dec-2019, Time: 12:35:17, ID: 1903655-13 PDI-067SC-A-12-13-191010 14.56, Description: PDI-067SC-A-12-13-191010

1,2,3,4,7,8-HxCDD

191217K3\_14

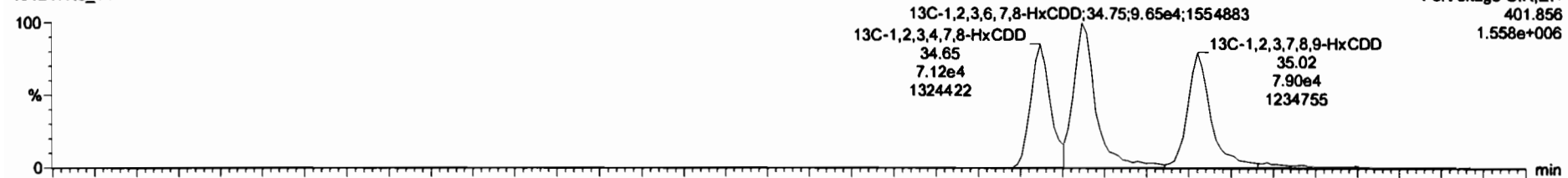


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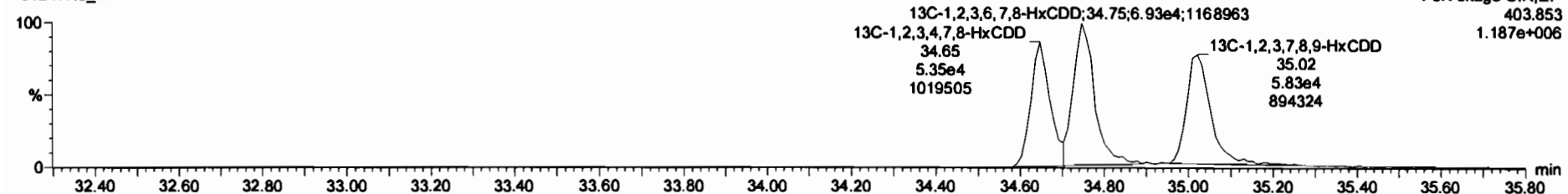


13C-1,2,3,4,7,8-HxCDD

191217K3\_14

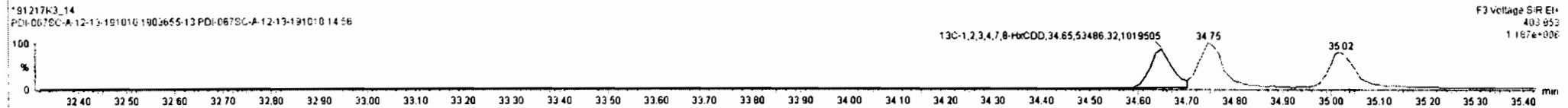
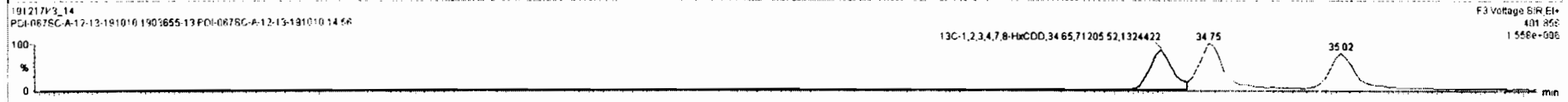
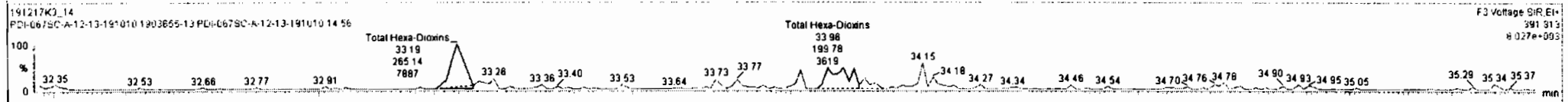
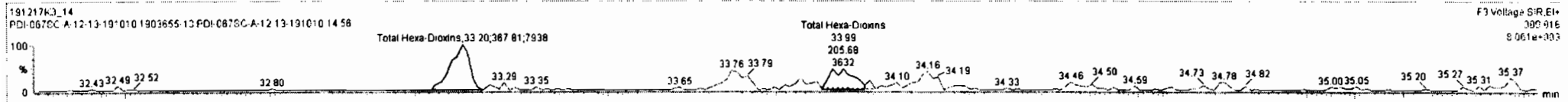


191217K3\_14



#	Name	Resp	RA	n/y	RRF	wAval	RT	RRT	Conc.	%Rec	DL	EMPC
27	13C-2,3,4,7,8-PeCDF	2.71e5	1.60	NO	0.7499	10.002	30.97	1.216	151	75.7	1.14	
28	13C-1,2,3,4,7,8-HxCDF	2.02e5	0.54	NO	0.8452	10.002	33.78	0.989	144	72.1	1.43	
29	13C-1,2,3,6,7,8-HxCDF	2.66e5	0.50	NO	1.0287	10.002	33.90	0.992	156	78.3	1.18	
30	13C-2,3,4,6,7,8-HxCDF	2.17e5	0.51	NO	0.8929	10.002	34.47	1.009	147	73.3	1.36	
31	13C-1,2,3,7,8,9-HxCDF	1.67e5	0.51	NO	0.7343	10.002	35.36	1.025	138	68.9	1.65	
32	13C-1,2,3,4,6,7,8-HxCDF	1.58e5	0.44	NO	0.7542	10.002	37.10	1.086	126	63.1	0.975	
33	13C-1,2,3,4,7,8,9-HxCDF	1.03e5	0.42	NO	0.5390	10.002	39.16	1.146	116	57.9	1.36	
34	13C-OCDF	2.12e5	0.88	NO	0.5925	10.002	42.00	1.229	216	54.0	1.31	
35	37Cl-2,3,7,8-TCDD	1.09e5			1.0895	10.002	26.17	1.028	73.4	91.7	0.121	
36	13C-1,2,3,4-TCDD	2.78e5	0.78	NO	1.0000	10.002	25.47	1.000	200	100	0.731	
37	13C-1,2,3,4-TCDF	4.77e5	0.74	NO	1.0000	10.002	23.57	1.000	200	100	0.702	
38	13C-1,2,3,4,6,9-HxCDF	3.31e5	0.52	NO	1.0000	10.002	34.18	1.000	200	100	1.21	

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	33.20	3.678e2	2.651e2	1.39	NO	0.91739	0.00000
2	Total Hexa-Dioxins	33.98	2.057e2	1.998e2	1.03	YES	0.53852	0.00000



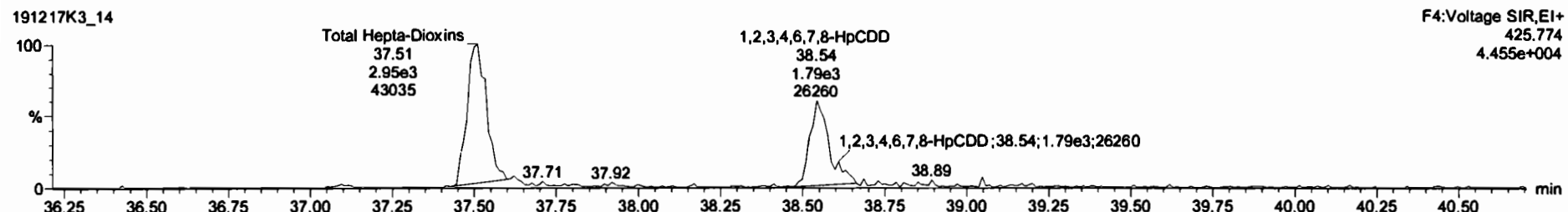
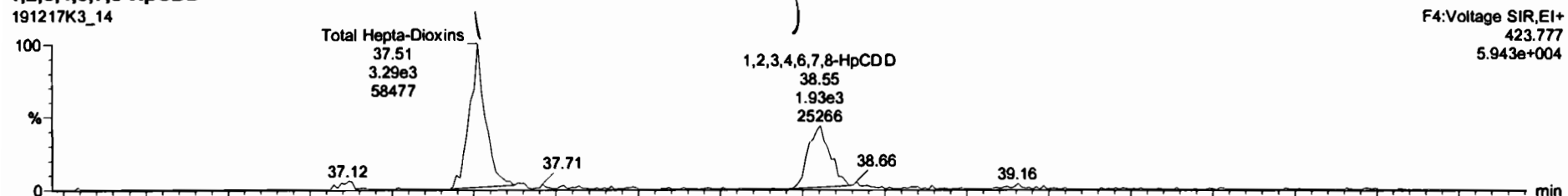
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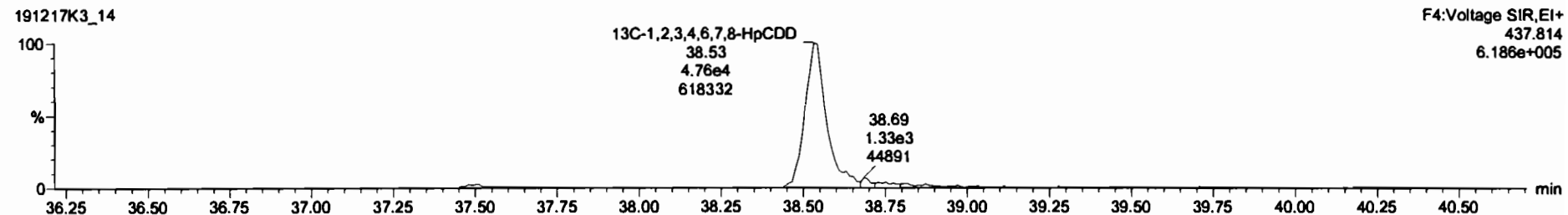
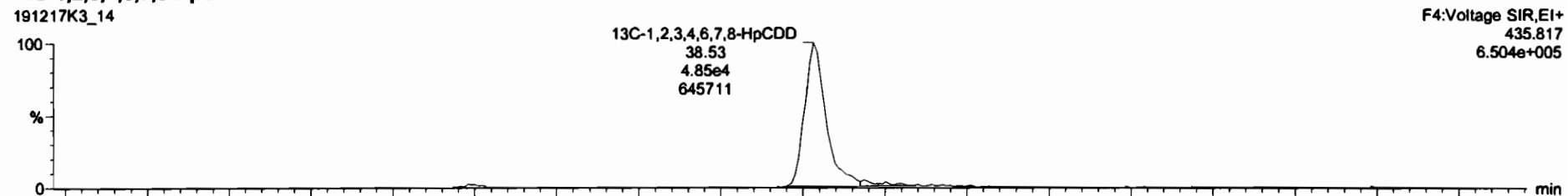
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Name: 191217K3\_14, Date: 18-Dec-2019, Time: 12:35:17, ID: 1903655-13 PDI-067SC-A-12-13-191010 14.56, Description: PDI-067SC-A-12-13-191010

1,2,3,4,6,7,8-HpCDD



13C-1,2,3,4,6,7,8-HpCDD

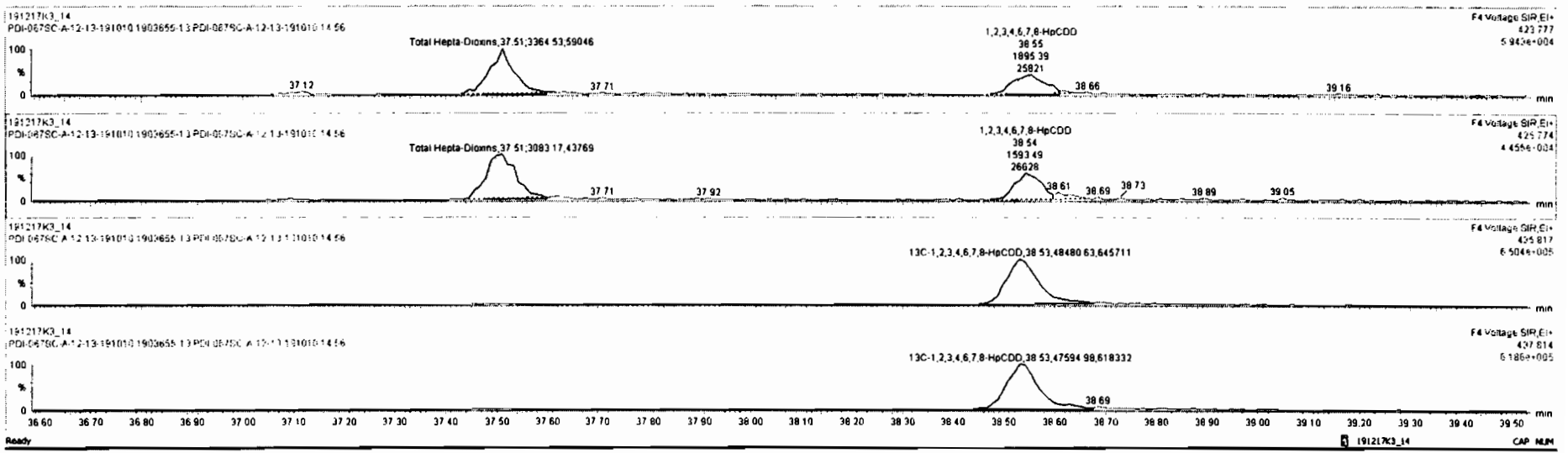




191217K3\_14 191217K3\_14 191217K3\_14 191217K3\_14 191217K3\_14

#	Name	Resp	RA	n/y	RRF	wtAveI	RT	RRT	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxins				1.0375	10.002			19.9		0.583	19.9
43	Total Tetra-Furans				0.9376	10.002			0.000		0.0446	0.959
44	1st Func. Penta-Furans				0.9782	10.002					0.0204	
45	Total Penta-Furans				0.9782	10.002			0.000		0.0285	0.441
46	Total Hexa-Furans				1.1806	10.002			0.474		0.167	0.474
47	Total Hepta-Furans				1.1300	10.002			0.000		0.188	0.914
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	OPE1											

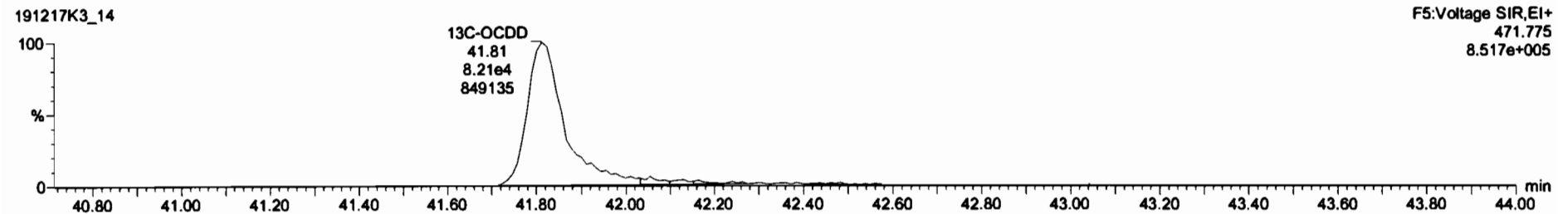
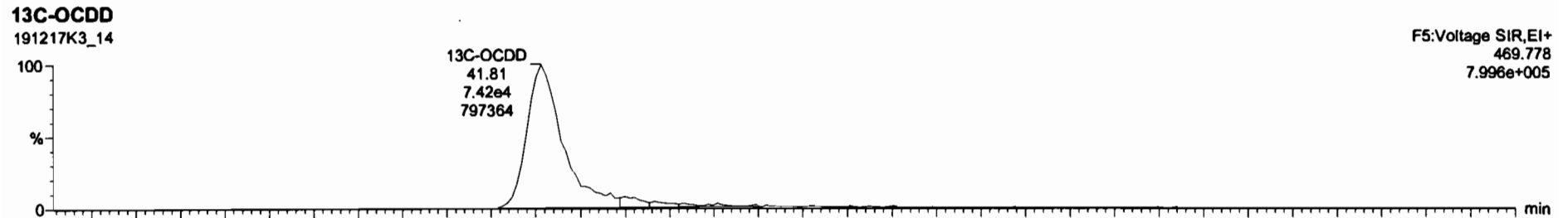
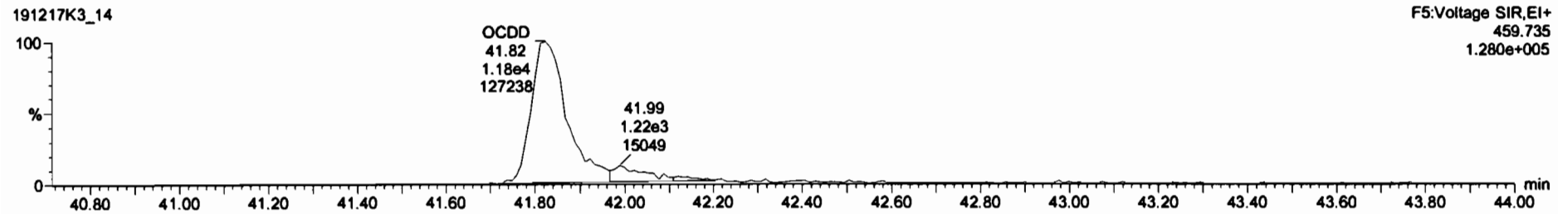
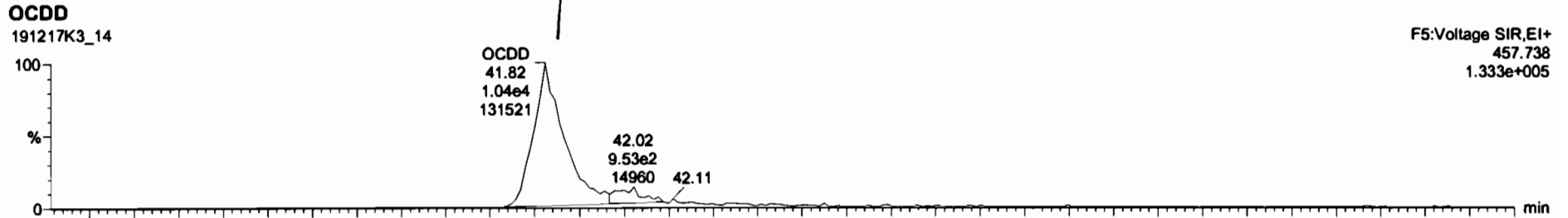
#	Name	RT	wt Resp	n/y	EMPC	Conc.		
1	Total Hepta-Dioxins	37.51	3.285e3	3.083e3	1.09	NO	12.934	12.934
2	1,2,3,4,6,7,8-HpCDD	38.55	1.895e3	1.963e3	1.19	NO	6.9985	6.9985



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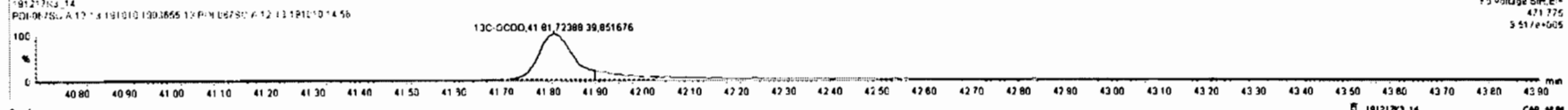
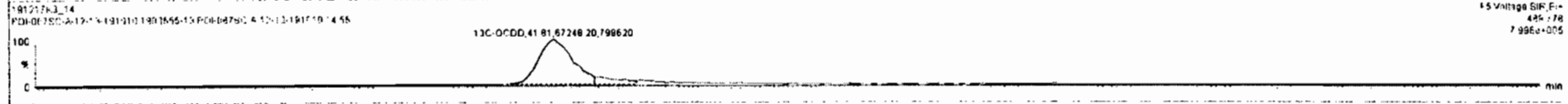
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Name: 191217K3\_14, Date: 18-Dec-2019, Time: 12:35:17, ID: 1903655-13 PDI-067SC-A-12-13-191010 14.56, Description: PDI-067SC-A-12-13-191010



#	Name	Resp	RA	n/y	N/F	rt/val	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.9249	10.002					0.211	
2	1,2,3,7,8-PeCDD			NO	0.9048	10.002					0.235	
3	1,2,3,4,7,8-HxCDD			NO	1.0691	10.002					0.295	
4	1,2,3,6,7,8-HxCDD			NO	0.9675	10.002					0.263	
5	1,2,3,7,8,9-HxCDD			NO	0.9778	10.002					0.349	
6	1,2,3,4,6,7,8-HpCDD	3.72e3	1.07	NO	1.0375	10.002	38.55	1.001	7.46		0.583	7.46
7	OCDD	2.08e4	0.82	NO	0.8718	10.002	41.82	1.000	81.3		1.31	81.3
8	2,3,7,8-TCDF	9.68e2	0.95	YES	0.9376	10.002	25.22	1.002	0.560		0.155	0.508
9	1,2,3,7,8-PeCDF	8.66e2	1.12	YES	0.9762	10.002	30.00	1.001	0.508		0.0818	0.441
10	2,3,4,7,8-PeCDF			NO	1.0048	10.002					0.0814	
11	1,2,3,4,7,8-HxCDF	5.94e2	1.25	NO	1.2434	10.002	33.78	1.000	0.474		0.148	0.474
12	1,2,3,6,7,8-HxCDF			NO	1.0950	10.002					0.140	

#	Name	RT	ret Resp	m2 Resp	RA	n/y	EMPC	Conc.
1								

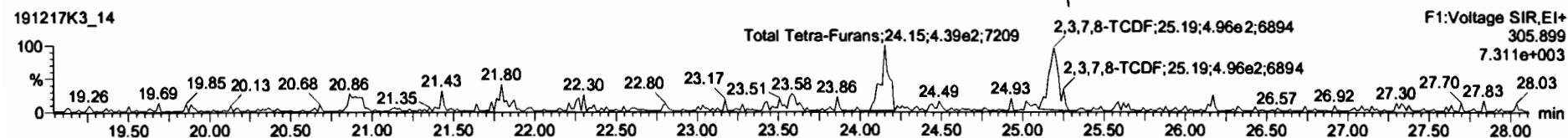
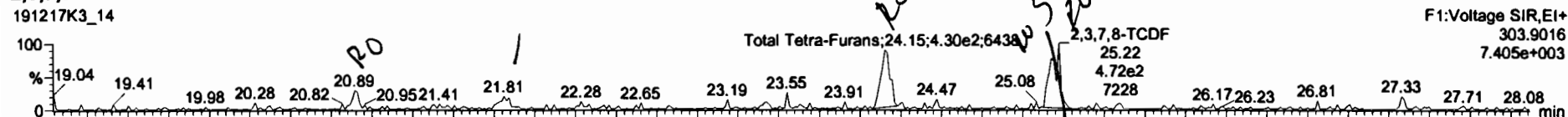


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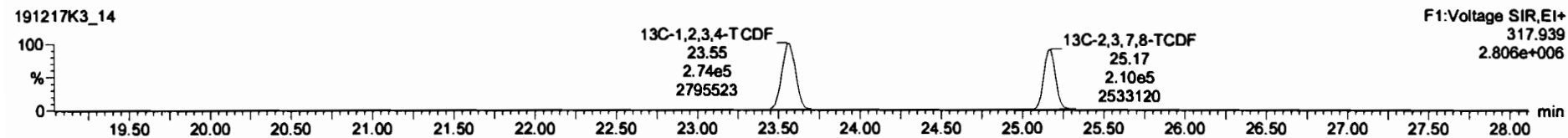
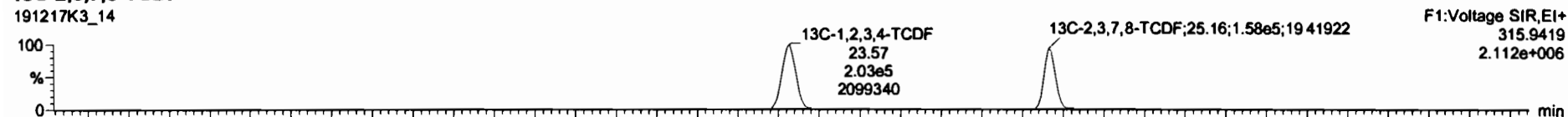
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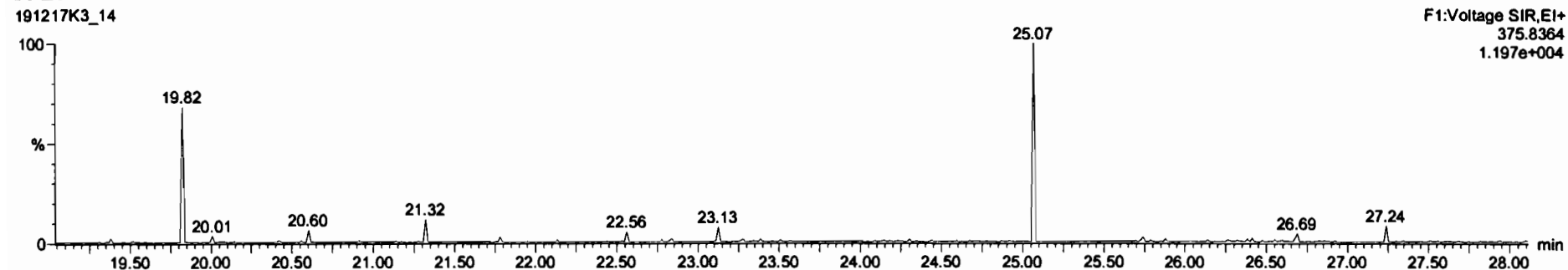
**2,3,7,8-TCDF**



**<sup>13</sup>C-2,3,7,8-TCDF**

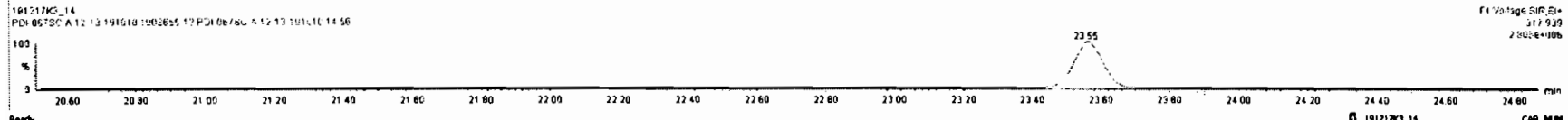
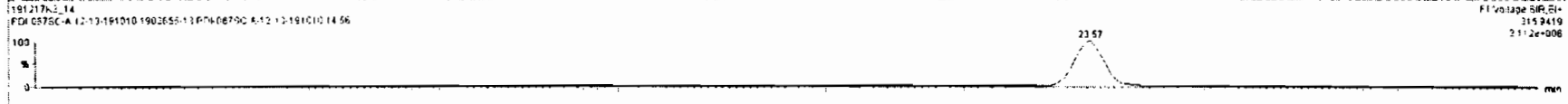
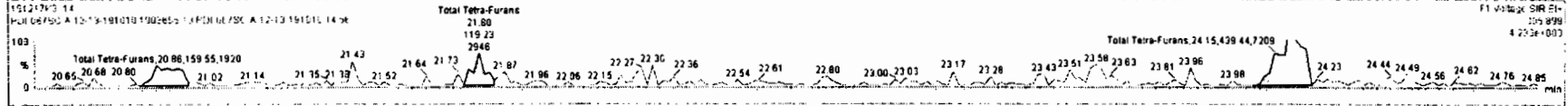
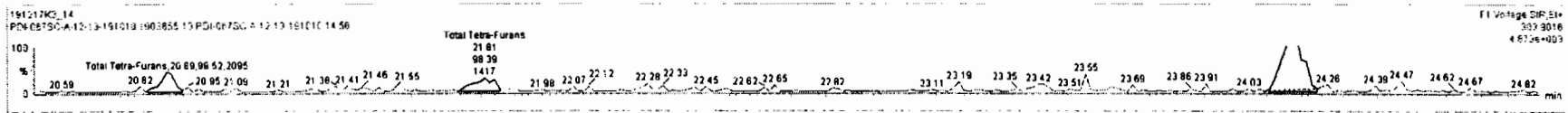


**DPE1**



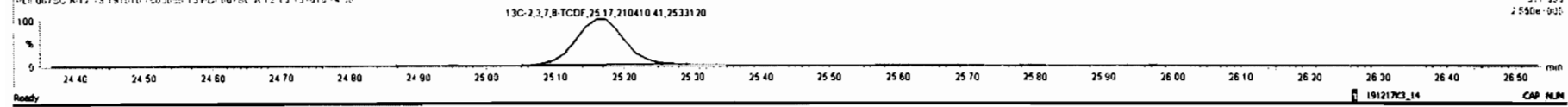
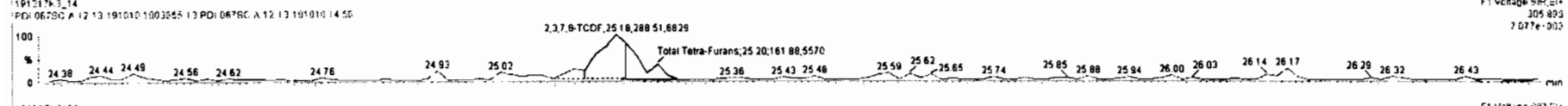
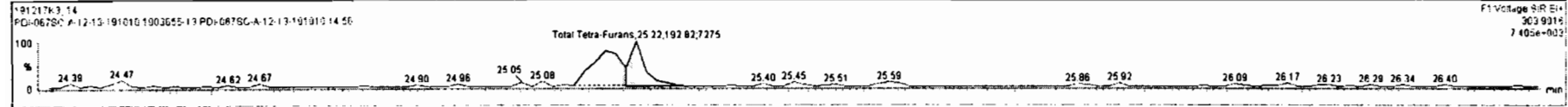
Name	Resp	RA	nly	RF	wtdwt	RT	RFI	Conc	%Rec	DL	EMPC
42 Total Hepta-Oxans				1.0375	10.002			19.9	0.563	19.9	
43 Total Tetra-Furans				0.9378	10.002			0.128	0.165	1.17	
44 1st Func. Penta-Furans				0.9762	10.002				0.0304		
45 Total Penta-Furans				0.9762	10.002			0.000	0.0265	0.441	
46 Total Hexa-Furans				1.1806	10.002			0.474	0.167	0.474	
47 Total Hepta-Furans				1.1300	10.002			0.000	0.168	0.914	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 OPE1											

Name	RT	int Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	20.80	9.952e1	1.595e2	0.82	YES	0.13245	0.00000
2 Total Tetra-Furans	21.81	9.839e1	1.192e2	0.83	NO	0.12586	0.12598
3 Total Tetra-Furans	24.15	4.571e2	4.394e2	1.04	YES	0.45033	0.00000
4 2,3,7,8-TCDF	25.17	2.779e2	2.895e2	0.96	YES	0.29998	0.00000
5 Total Tetra-Furans	25.22	1.928e2	1.819e2	1.19	YES	0.16389	0.00000



#	Name	Resp	RA	n/y	RFI	wtAval	RT	RFI	Conc	%Rec	DL	BaPC
42	Total Hepta-Furans				1.0375	10.002			19.8	0.583	19.8	
43	Total Tetra-Furans				0.8894	10.002			0.128	0.155	1.17	
44	1st Func. Penta-Furans				0.9762	10.002				0.0204		
45	Total Penta-Furans				0.9762	10.002			0.000	0.0205	0.441	
46	Total Hexa-Furans				1.1806	10.002			0.474	0.187	0.474	
47	Total Hepta-Furans				1.1300	10.002			0.000	0.168	0.914	
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPF1											

#	Name	RT	wt Resp	m2 Resp	RA	n/y	BaPC	Conc
1	Total Tetra-Furans	20.89	9.952e1	1.596e2	0.82	YES	0.13245	0.00000
2	Total Tetra-Furans	21.81	8.838e1	1.192e2	0.83	NO	0.12599	0.12599
3	Total Tetra-Furans	24.15	4.571e2	4.354e2	1.04	YES	0.45033	0.00000
4	2,3,7,8-TCDF	25.17	2.779e2	2.885e2	0.98	YES	0.29566	0.00000
5	Total Tetra-Furans	25.22	1.928e2	1.819e2	1.19	YES	0.16589	0.00000



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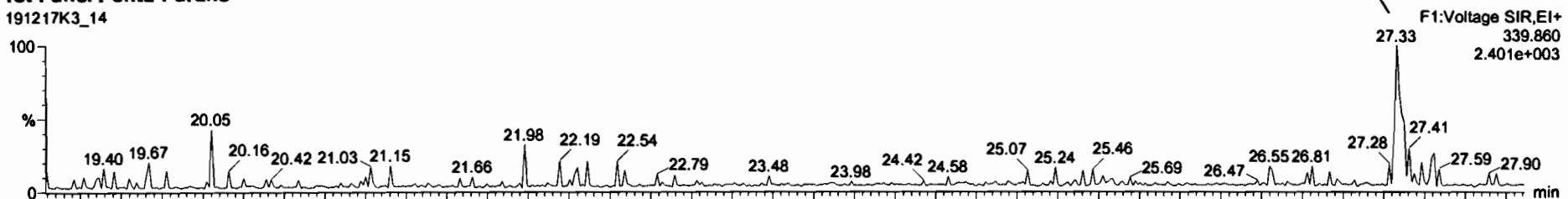
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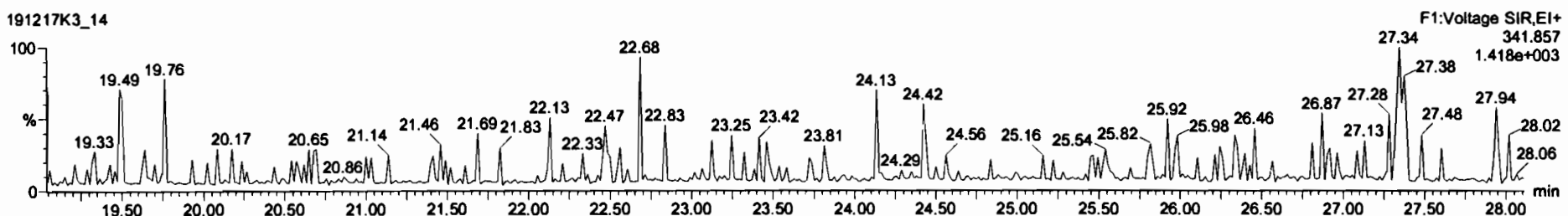
Name: 191217K3\_14, Date: 18-Dec-2019, Time: 12:35:17, ID: 1903655-13 PDI-067SC-A-12-13-191010 14.56, Description: PDI-067SC-A-12-13-191010

1st Func. Penta-Furans

191217K3\_14

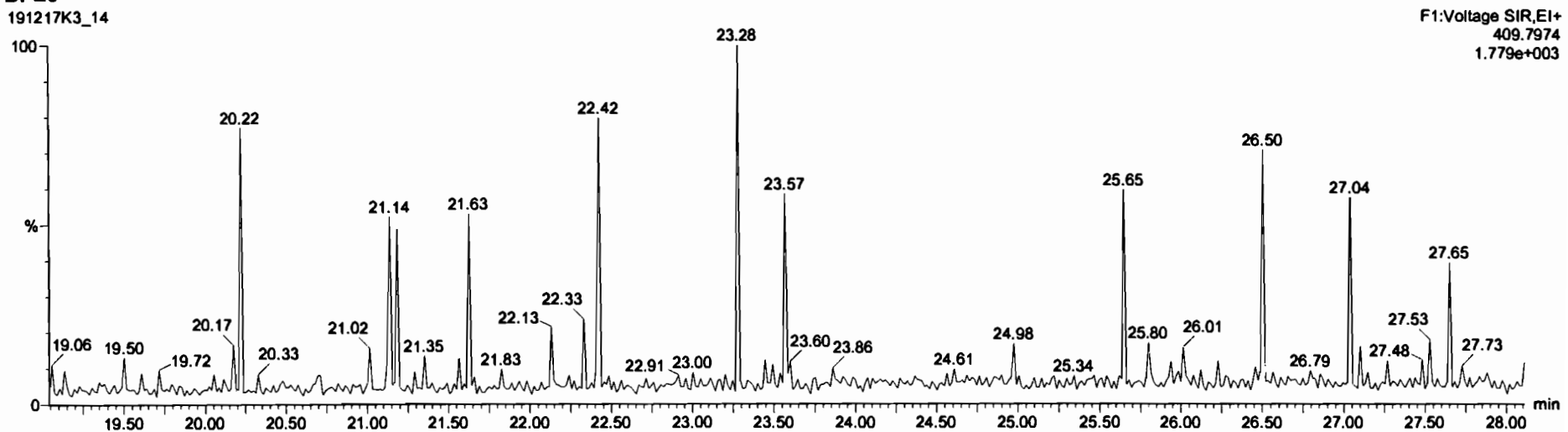


191217K3\_14



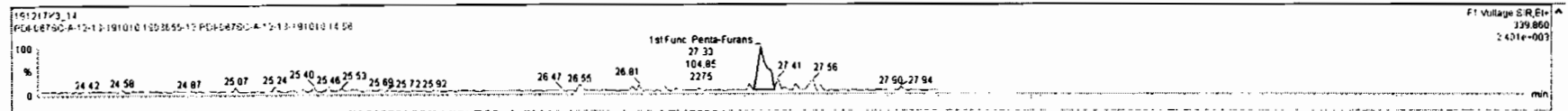
DPE6

191217K3\_14



#	Name	Resp	RA	n/y	RRF	wt/val	RT	RRT	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxins				1.0375	10.002			19.9	0.583	19.9	
43	Total Tetra-Furans				0.9376	10.002			0.126	0.155	1.17	
44	1st Func. Penta-Furans				0.9782	10.002			0.134	0.0204	0.134	
45	Total Penta-Furans				0.9762	10.002			0.000	0.0285	0.441	
46	Total Hexa-Furans				1.1806	10.002			0.474	0.167	0.474	
47	Total Hepta-Furans				1.1300	10.002			0.000	0.168	0.914	
48	PFH1											
49	PFH2											
50	PFH3											
51	PFH4											
52	PFH5											
53	DRE1											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	1st Func. Penta-Furans	27.33	1.04862	7.18861	1.46	NO	0.13430	0.13430



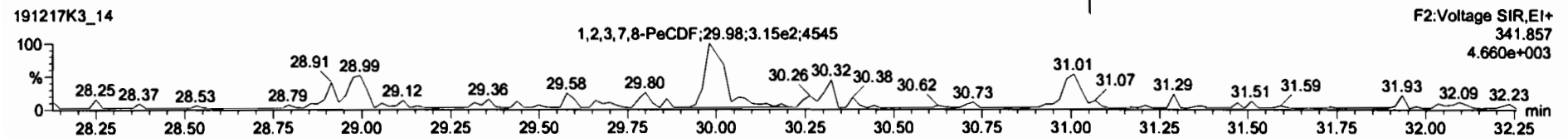
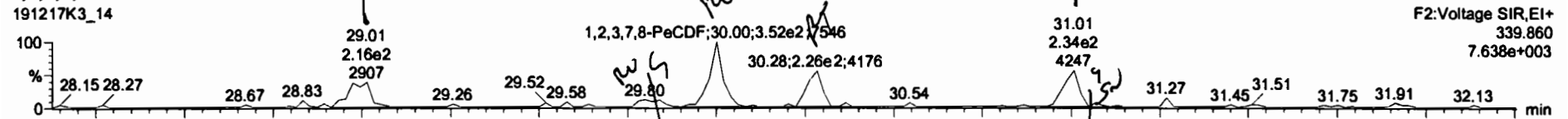


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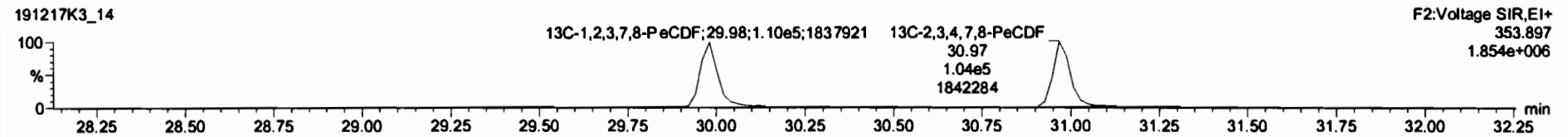
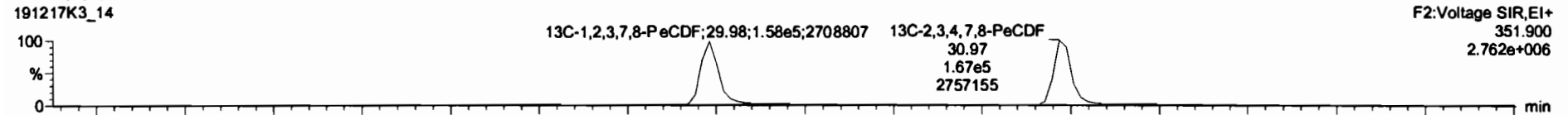
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Name: 191217K3\_14, Date: 18-Dec-2019, Time: 12:35:17, ID: 1903655-13 PDI-067SC-A-12-13-191010 14.56, Description: PDI-067SC-A-12-13-191010

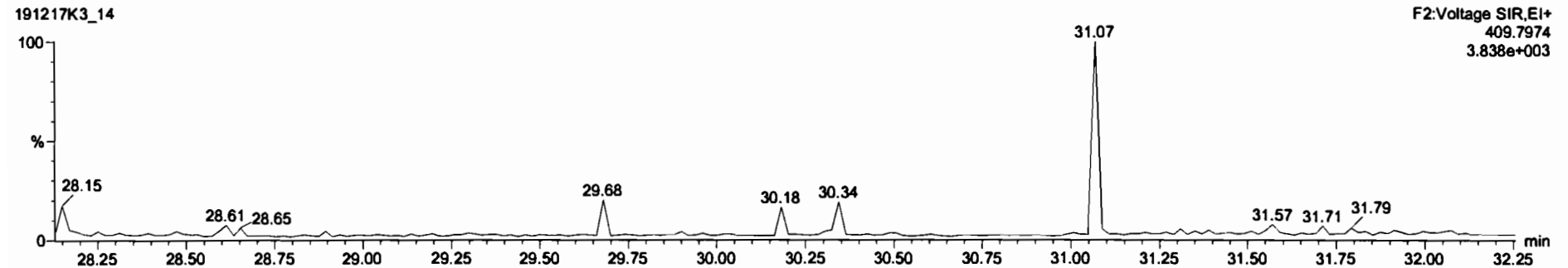
**1,2,3,7,8-PeCDF**



**13C-1,2,3,7,8-PeCDF**



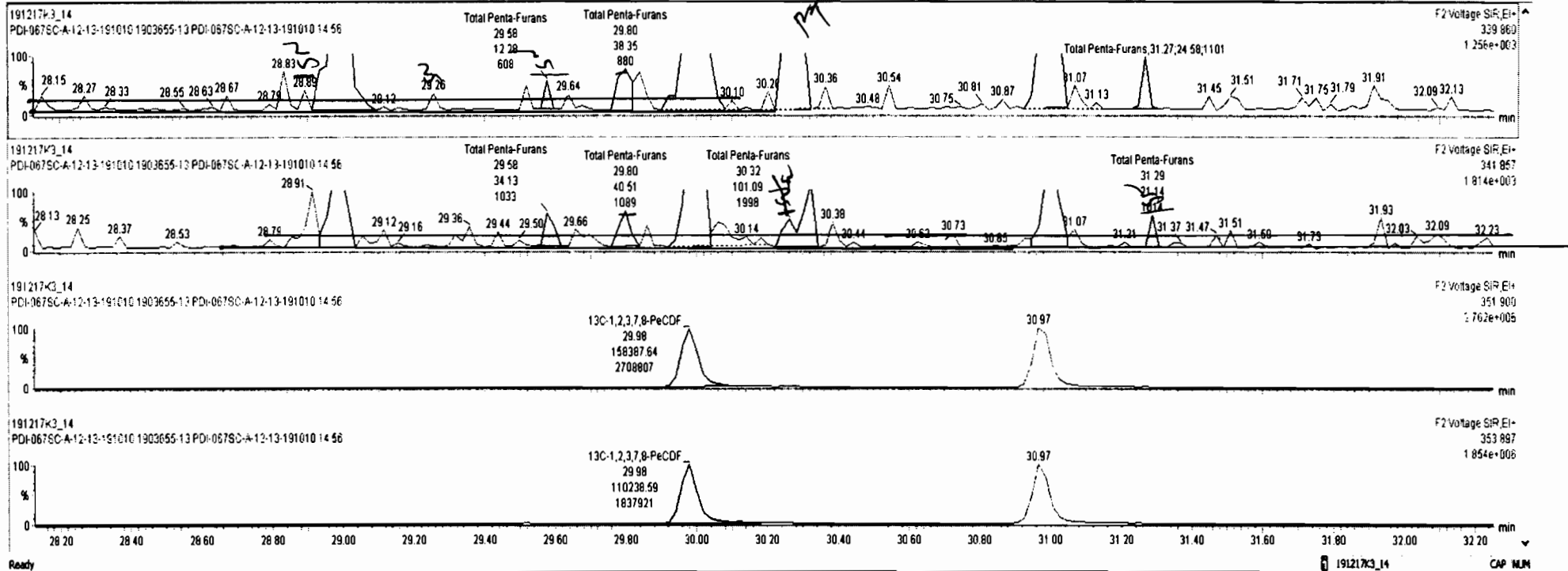
**DPE2**

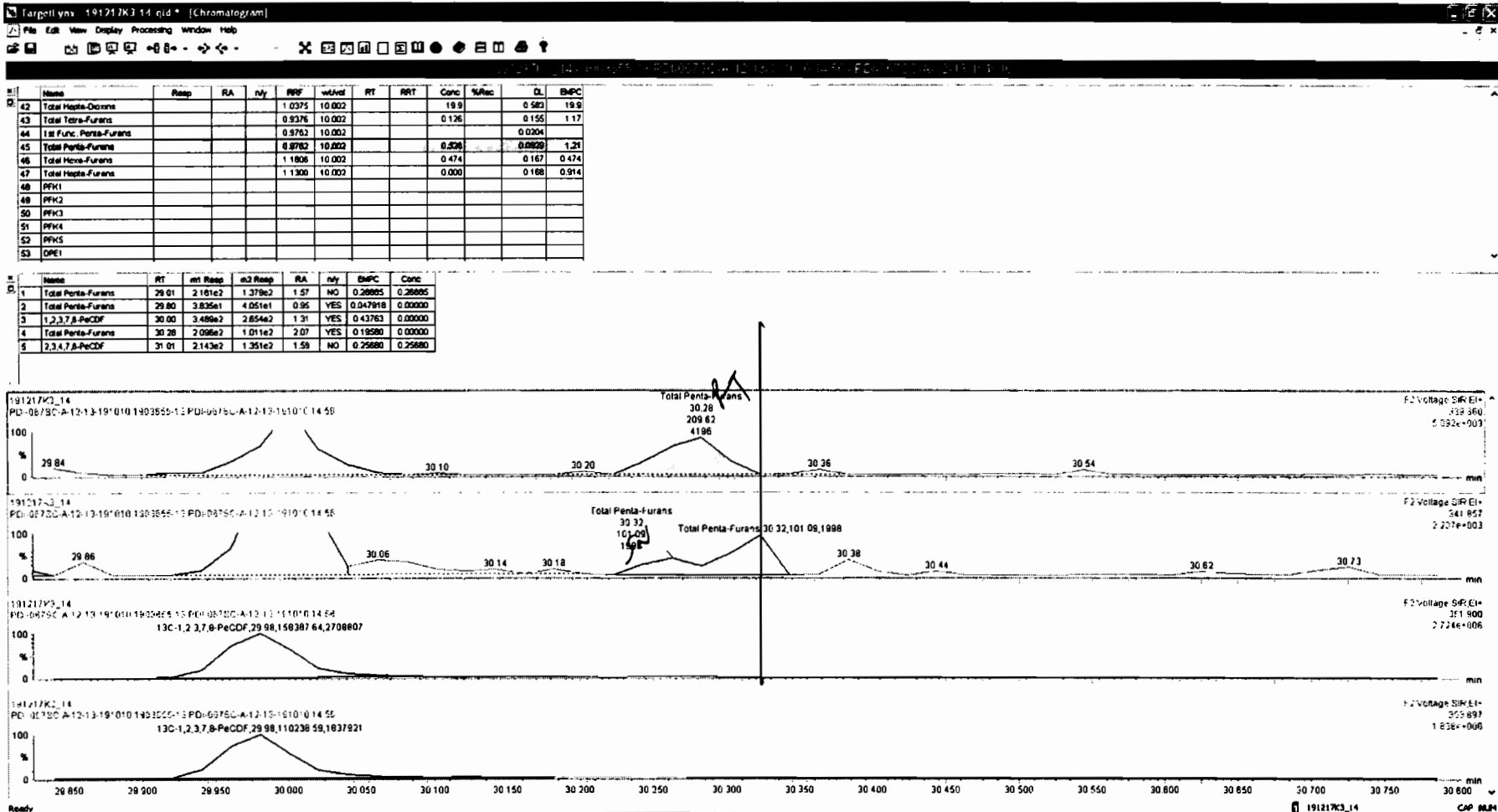


191217K3\_14 - 191217K3\_14.PDI-067SC-A-12-13-191010-14-56 - PDI-067SC-A-12-13-191010

#	Name	Resp	RA	nly	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				1.0375	10.002			19.9	0.583	19.9	
43	Total Tetra-Furans				0.9376	10.002			0.126	0.155	1.17	
44	1st Func. Penta-Furans				0.9762	10.002			0.134	0.0204	0.134	
45	Total Penta-Furans				0.9762	10.002			0.526	0.0828	1.25	
46	Total Hexa-Furans				1.1806	10.002			0.474	0.167	0.474	
47	Total Hepta-Furans				1.1300	10.002			0.000	0.168	0.914	
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	OPE1											

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Penta-Furans	29.01	2.161e2	1.379e2	1.57	NO	0.26895	0.26895
2	Total Penta-Furans	29.58	1.220e1	3.413e1	0.36	YES	0.015347	0.00000
3	Total Penta-Furans	29.80	3.835e1	4.051e1	0.95	YES	0.047918	0.00000
4	1,2,3,7,8-PeCDF	30.00	3.489e2	2.654e2	1.31	YES	0.43763	0.00000
5	Total Penta-Furans	30.28	2.096e2	1.011e2	2.07	YES	0.19580	0.00000
6	2,3,4,7,8-PeCDF	31.01	2.143e2	1.351e2	1.59	NO	0.25680	0.25680
7	Total Penta-Furans	31.27	2.450e1	2.114e1	1.16	YES	0.030711	0.00000





Dataset: Untitled

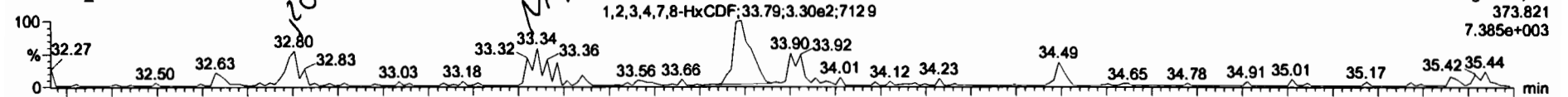
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

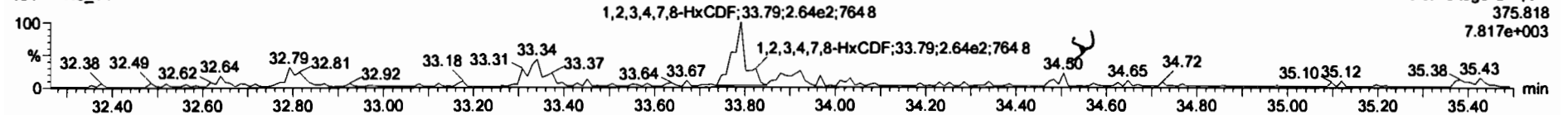
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**1,2,3,4,7,8-HxCDF**

191217K3\_14

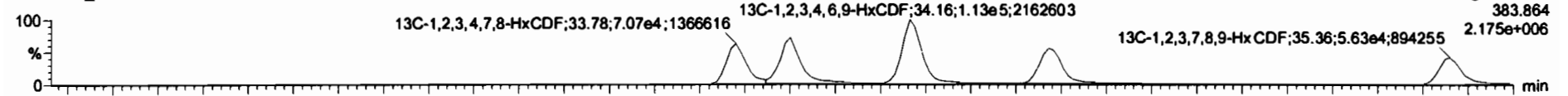


191217K3\_14

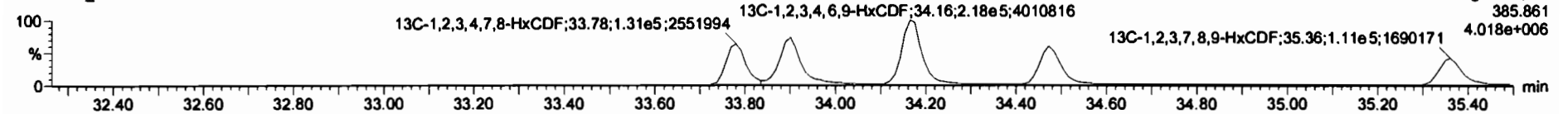


**13C-1,2,3,4,7,8-HxCDF**

191217K3\_14

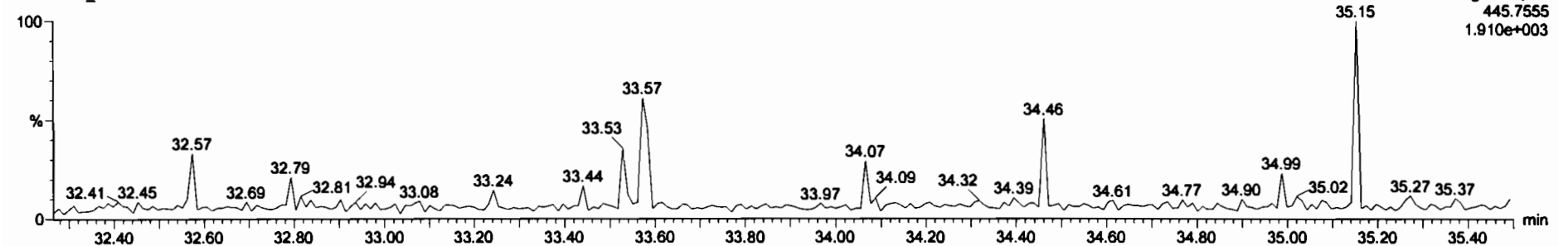


191217K3\_14



**DPE3**

191217K3\_14

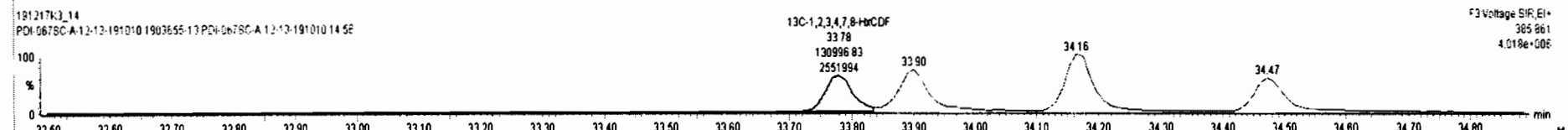
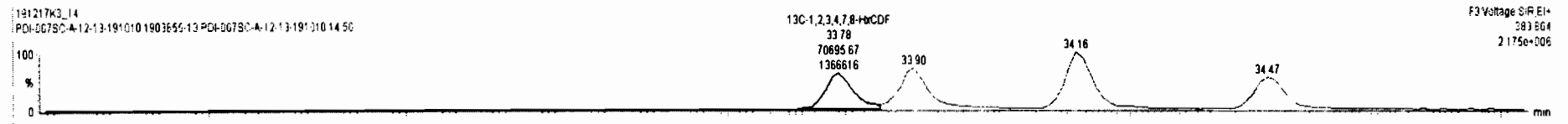
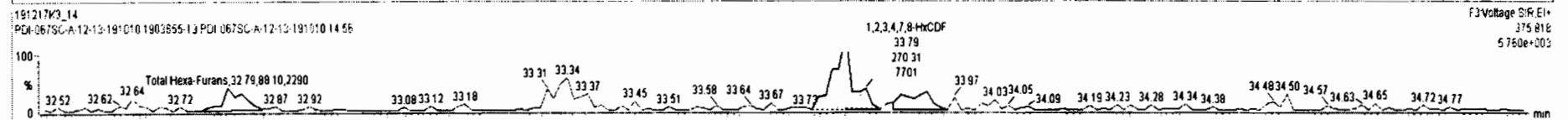
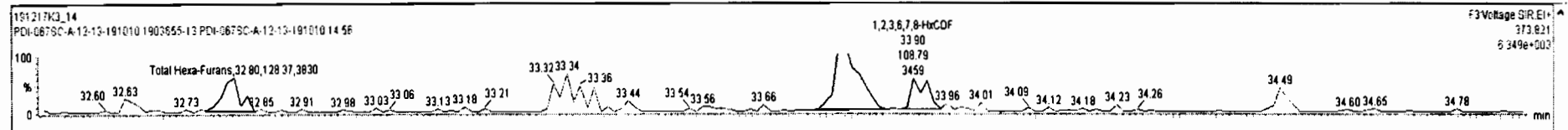




191217K3\_14 191217K3\_14 191217K3\_14 191217K3\_14 191217K3\_14 191217K3\_14 191217K3\_14 191217K3\_14 191217K3\_14 191217K3\_14

Name	Resp	RA	n/y	RRF	w/wol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.0375	10.002			19.9	0.583	19.9	
43 Total Tetra-Furans				0.9376	10.002			0.126	0.155	1.17	
44 1st Func. Penta-Furans				0.9762	10.002				0.0204		
45 Total Penta-Furans				0.9762	10.002			0.526	0.0829	1.01	
46 Total Hexa-Furans				1.1806	10.002			0.816	0.167	0.773	
47 Total Hepta-Furans				1.1300	10.002			0.000	0.168	0.914	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.80	1.284e2	8.810e1	1.46	YES	0.15693	0.00000
2 1,2,3,4,7,8-HxCDF	33.79	3.295e2	2.703e2	1.22	NO	0.47823	0.47823
3 1,2,3,6,7,8-HxCDF	33.90	1.086e2	9.219e1	1.18	NO	0.13795	0.13795

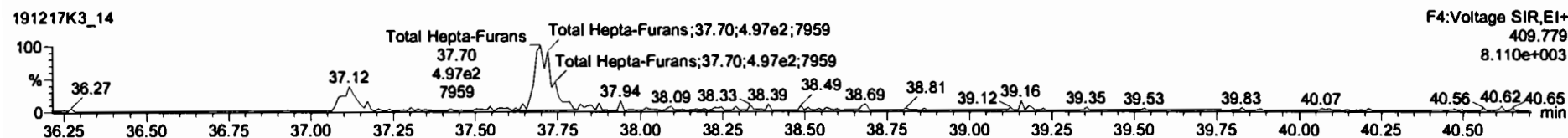
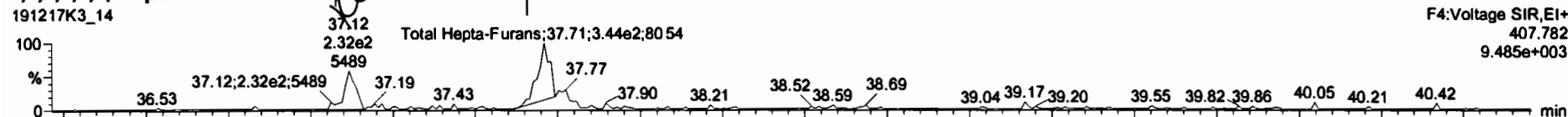


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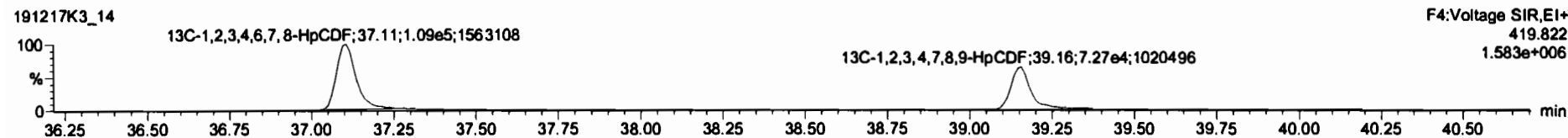
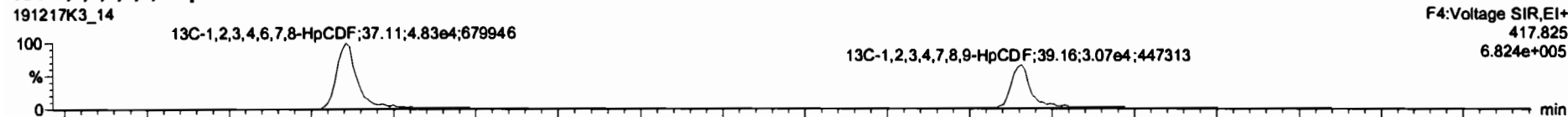
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_14, Date: 18-Dec-2019, Time: 12:35:17, ID: 1903655-13 PDI-067SC-A-12-13-191010 14.56, Description: PDI-067SC-A-12-13-191010

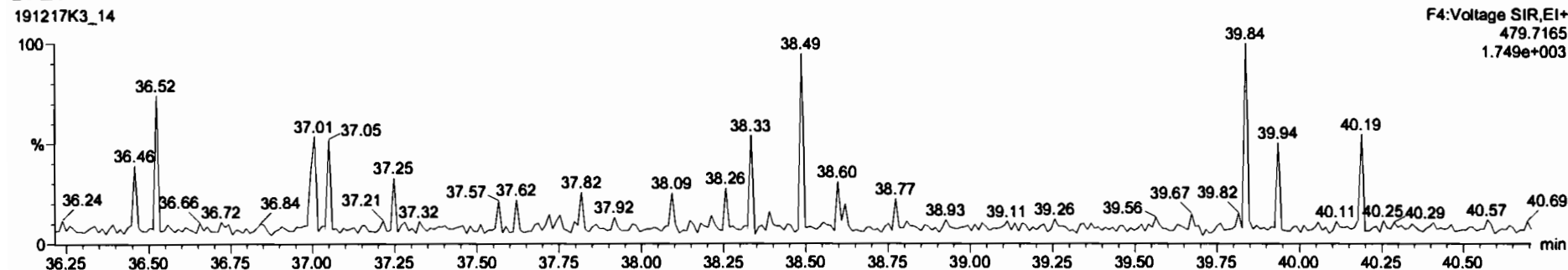
**1,2,3,4,6,7,8-HpCDF**



**13C-1,2,3,4,6,7,8-HpCDF**

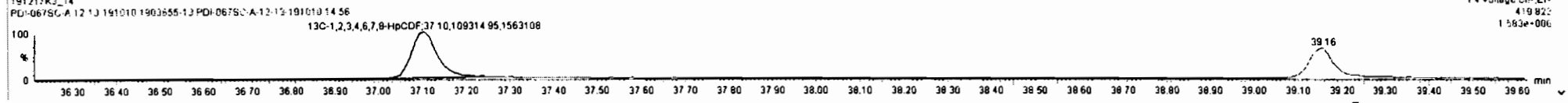
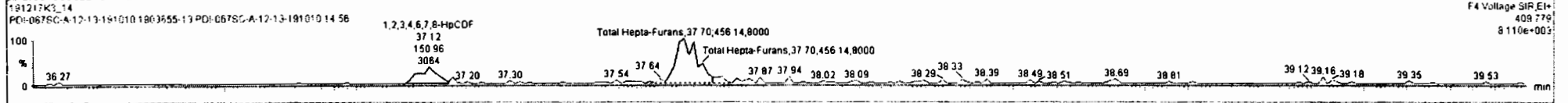
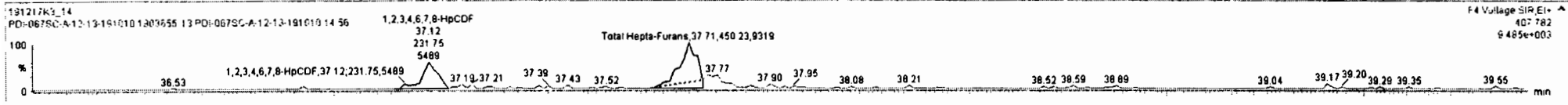


**DPE4**



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.0375	10.002			19.9		0.583	19.9
43 Total Tetra-Furans				0.8376	10.002			0.126		0.155	1.17
44 1st Func. Penta-Furans				0.9762	10.002					0.0204	
45 Total Penta-Furans				0.9762	10.002			0.526		0.0629	1.01
46 Total Hexa-Furans				1.1806	10.002			0.616		0.167	0.773
47 Total Hepta-Furans				1.1300	10.002			1.23		0.301	1.57
48 PFK1											
48 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 OPE1											

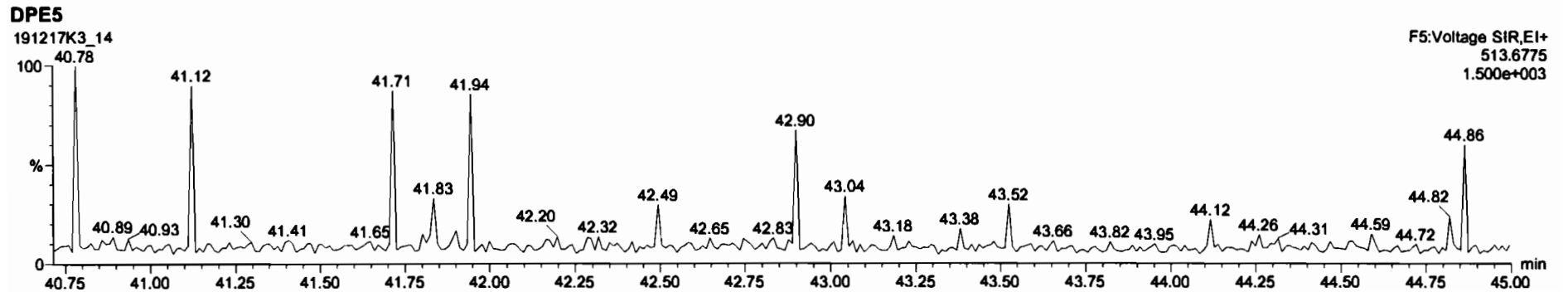
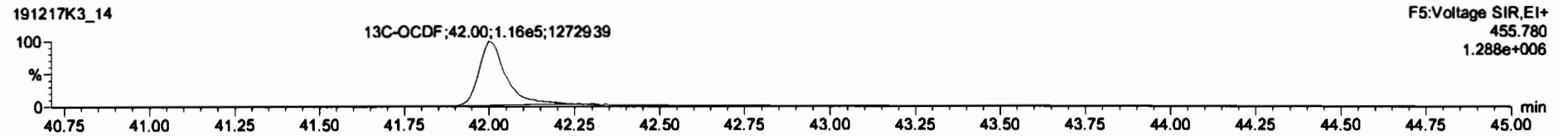
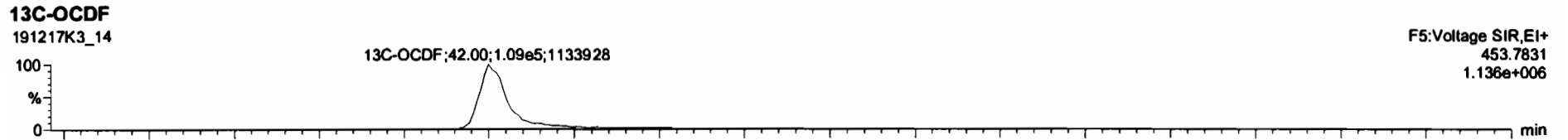
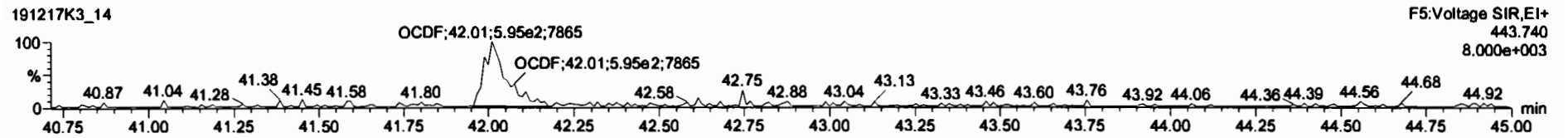
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	37.12	2.317e2	1.510e2	1.54	YES	0.34565	0.00000
2 Total Hepta-Furans	37.71	4.502e2	4.561e2	0.99	NO	1.2289	1.2289



Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

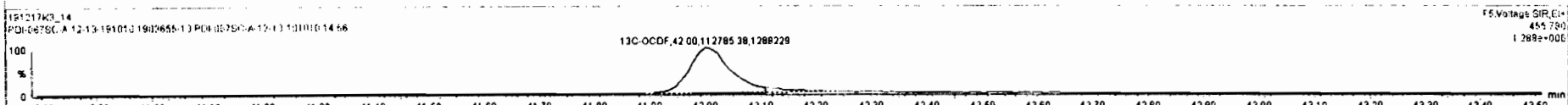
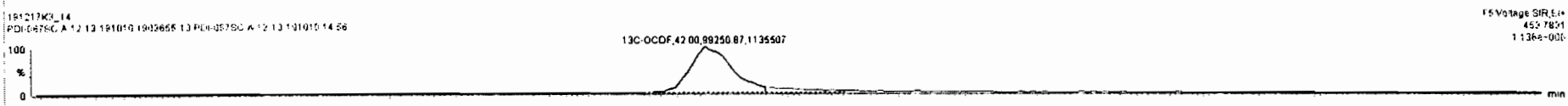
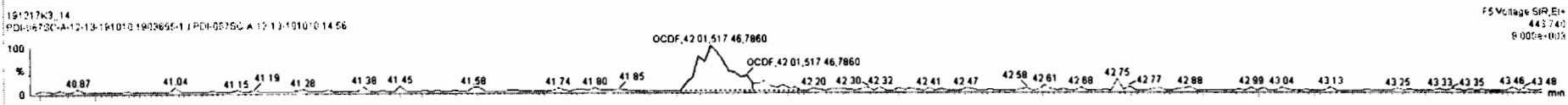
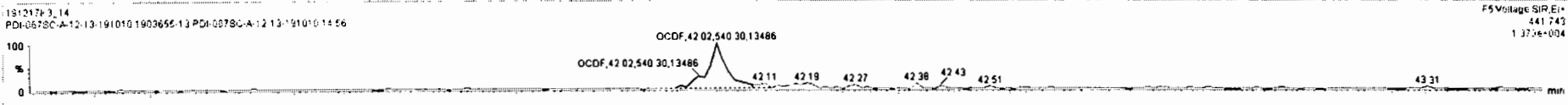
Name: 191217K3\_14, Date: 18-Dec-2019, Time: 12:35:17, ID: 1903655-13 PDI-067SC-A-12-13-191010 14.56, Description: PDI-067SC-A-12-13-191010





Name	Resp	RA	rly	RPF	wtAvd	RT	RRT	Conc	%Rec	DL	EMPC
11 1,2,3,4,7,8-HxCDF	5.94e2	1.25	NO	1.2434	10.002	33.79	1.000	0.474		0.140	0.474
12 1,2,3,6,7,8-HxCDF			NO	1.0950	10.002					0.140	
13 1,2,3,4,6,7,8-HxCDF			NO	1.1806	10.002					0.173	
14 1,2,3,7,8,9-HxCDF			NO	1.0728	10.002					0.253	
15 1,2,3,4,6,7,8-HxCDF			NO	1.1300	10.002					0.254	
16 1,2,3,4,7,8,9-HxCDF			NO	1.2609	10.002					0.335	
17 OCDF	1.08e3	1.04	YES	1.1025	10.002	42.02	1.001	1.81		0.336	1.67
18 13C-2,3,7,8-TCDD	2.25e5	0.77	NO	1.0489	10.002	26.15	1.027	154	77.0	0.696	
19 13C-1,2,3,7,8-PeCDD	1.88e5	0.62	NO	0.7429	10.002	31.29	1.229	180	90.1	1.12	
20 13C-1,2,3,4,7,8-HxCDD	1.25e5	1.33	NO	0.6463	10.002	34.85	1.014	117	58.3	1.15	
21 13C-1,2,3,6,7,8-HxCDD	1.66e5	1.39	NO	0.7767	10.002	34.75	1.017	129	64.5	0.961	
22 13C-1,2,3,7,8,9-HxCDD	1.37e5	1.36	NO	0.6595	10.002	35.02	1.025	126	62.8	1.13	

Name	RT	m1 Resp	m2 Resp	RA	rly	EMPC	Conc.
1							

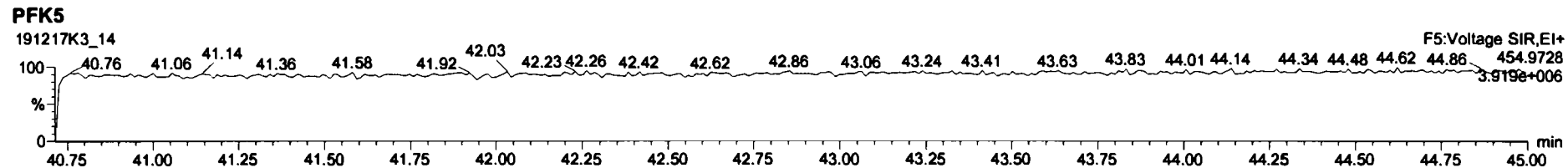
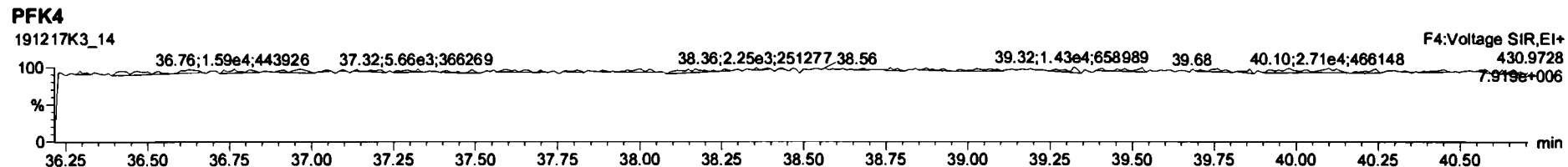
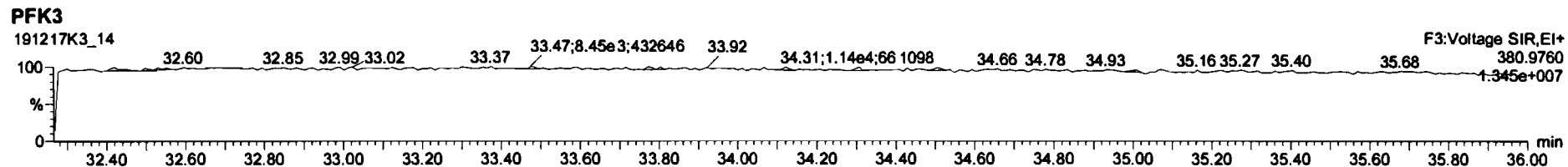
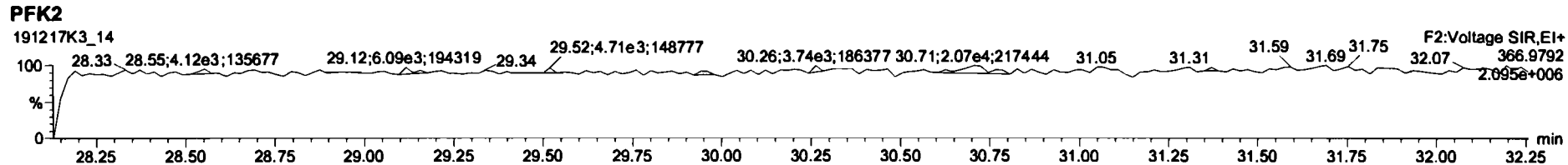
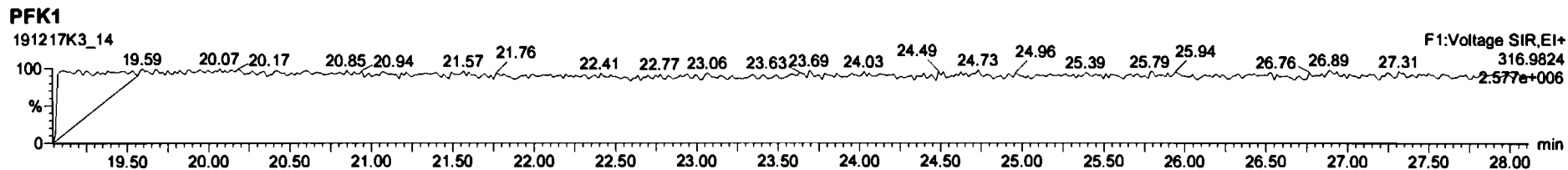


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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_14, Date: 18-Dec-2019, Time: 12:35:17, ID: 1903655-13 PDI-067SC-A-12-13-191010 14.56, Description: PDI-067SC-A-12-13-191010



Dataset: U:\VG11.PRO\Results\191217K3\191217K3-15.qld

Last Altered: Tuesday, December 24, 2019 12:15:34 PM Pacific Standard Time  
Printed: Tuesday, December 24, 2019 12:17:02 PM Pacific Standard Time

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1/6/20*

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57  
Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_15, Date: 18-Dec-2019, Time: 13:23:13, ID: 1903655-14 PDI-067SC-A-13-13.8-191010 14.67, Description: PDI-067SC-A-13-13.8-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.925	10.007	26.184		1.001				0.148	
2	2 1,2,3,7,8-PeCDD			NO	0.905	10.007	31.311		1.001				0.127	
3	3 1,2,3,4,7,8-HxCDD			NO	1.07	10.007	34.657		1.000				0.223	
4	4 1,2,3,6,7,8-HxCDD			NO	0.967	10.007	34.746		1.000				0.220	
5	5 1,2,3,7,8,9-HxCDD			NO	0.978	10.007	35.055		1.001				0.266	
6	6 1,2,3,4,6,7,8-HpCDD			NO	1.04	10.007	38.544		1.000				0.347	
7	7 OCDD	1.70e3	0.92	NO	0.972	10.007	41.824	41.80	1.000	0.999	2.7983		0.580	2.80
8	8 2,3,7,8-TCDF			NO	0.938	10.007	25.199		1.001				0.0614	
9	9 1,2,3,7,8-PeCDF			NO	0.976	10.007	30.002		1.001				0.0423	
10	10 2,3,4,7,8-PeCDF			NO	1.00	10.007	30.998		1.001				0.0413	
11	11 1,2,3,4,7,8-HxCDF			NO	1.24	10.007	33.780		1.000				0.0358	
12	12 1,2,3,6,7,8-HxCDF			NO	1.10	10.007	33.900		1.000				0.0365	
13	13 2,3,4,6,7,8-HxCDF			NO	1.18	10.007	34.506		1.001				0.0358	
14	14 1,2,3,7,8,9-HxCDF			NO	1.07	10.007	35.349		1.000				0.0553	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.13	10.007	37.142		1.001				0.0546	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.26	10.007	39.146		1.000				0.0689	
17	17 OCDF			NO	1.10	10.007	41.999		1.000				0.137	
18	18 13C-2,3,7,8-TCDD	3.16e5	0.75	NO	1.05	10.007	26.163	26.15	1.027	1.027	178.02	89.1	0.635	
19	19 13C-1,2,3,7,8-PeCDD	2.63e5	0.62	NO	0.743	10.007	31.309	31.29	1.230	1.229	208.68	104	0.502	
20	20 13C-1,2,3,4,7,8-HxCDD	1.59e5	1.24	NO	0.646	10.007	34.635	34.65	1.014	1.014	135.26	67.7	1.19	
21	21 13C-1,2,3,6,7,8-HxCDD	2.20e5	1.29	NO	0.777	10.007	34.735	34.75	1.017	1.017	155.67	77.9	0.989	
22	22 13C-1,2,3,7,8,9-HxCDD	1.77e5	1.35	NO	0.659	10.007	35.008	35.02	1.025	1.025	147.56	73.8	1.16	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.49e5	1.04	NO	0.534	10.007	38.506	38.53	1.127	1.128	153.57	76.8	1.09	
24	24 13C-OCDD	2.50e5	0.88	NO	0.470	10.007	41.786	41.82	1.223	1.224	292.14	73.1	1.92	
25	25 13C-2,3,7,8-TCDF	5.18e5	0.75	NO	0.977	10.007	25.175	25.17	0.989	0.989	174.07	87.1	0.548	
26	26 13C-1,2,3,7,8-PeCDF	3.68e5	1.50	NO	0.778	10.007	29.998	29.98	1.178	1.177	155.42	77.8	1.00	
27	27 13C-2,3,4,7,8-PeCDF	3.70e5	1.66	NO	0.750	10.007	30.988	30.97	1.217	1.216	162.04	81.1	1.04	
28	28 13C-1,2,3,4,7,8-HxCDF	2.44e5	0.52	NO	0.845	10.007	33.775	33.78	0.989	0.989	159.26	79.7	1.59	
29	29 13C-1,2,3,6,7,8-HxCDF	3.20e5	0.50	NO	1.03	10.007	33.891	33.89	0.992	0.992	171.70	85.9	1.31	
30	30 13C-2,3,4,6,7,8-HxCDF	2.81e5	0.50	NO	0.893	10.007	34.465	34.47	1.009	1.009	173.21	86.7	1.50	
31	31 13C-1,2,3,7,8,9-HxCDF	2.35e5	0.49	NO	0.734	10.007	35.367	35.35	1.035	1.035	176.49	88.3	1.83	

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-15.qld

Last Altered: Tuesday, December 24, 2019 12:15:34 PM Pacific Standard Time

Printed: Tuesday, December 24, 2019 12:17:02 PM Pacific Standard Time

Name: 191217K3\_15, Date: 18-Dec-2019, Time: 13:23:13, ID: 1903655-14 PDI-067SC-A-13-13.8-191010 14.67, Description: PDI-067SC-A-13-13.8-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	2.25e5	0.46	NO	0.754	10.007	37.082	37.10	1.085	1.086	164.62	82.4	1.08	
33	13C-1,2,3,4,7,8,9-HpCDF	1.61e5	0.42	NO	0.539	10.007	39.108	39.15	1.145	1.146	164.39	82.3	1.52	
34	13C-OCDF	4.02e5	0.89	NO	0.593	10.007	41.974	42.00	1.229	1.229	373.66	93.5	1.33	
35	37Cl-2,3,7,8-TCDD	1.41e5			1.07	10.007	26.183	26.17	1.028	1.028	77.748	97.3	0.127	
36	13C-1,2,3,4-TCDD	3.39e5	0.80	NO	1.00	10.007	25.450	25.47	1.000	1.000	199.86	100	0.666	
37	13C-1,2,3,4-TCDF	6.09e5	0.77	NO	1.00	10.007	23.550	23.57	1.000	1.000	199.86	100	0.536	
38	13C-1,2,3,4,6,9-HxCDF	3.63e5	0.50	NO	1.00	10.007	34.160	34.16	1.000	1.000	199.86	100	1.34	
39	Total Tetra-Dioxins				0.925	10.007	24.620		0.000				0.0881	
40	Total Penta-Dioxins				0.905	10.007	29.960		0.000				0.0516	
41	Total Hexa-Dioxins				0.967	10.007	33.635		0.000		0.00000		0.151	0.112
42	Total Hepta-Dioxins				1.04	10.007	38.800		0.000				0.189	
43	Total Tetra-Furans				0.938	10.007	23.610		0.000				0.0260	
44	1st Func. Penta-Furans				0.976	10.007	27.040		0.000				0.0139	
45	Total Penta-Furans				0.976	10.007	29.275		0.000				0.0170	
46	Total Hexa-Furans				1.18	10.007	33.555		0.000				0.0185	
47	Total Hepta-Furans				1.13	10.007	37.835		0.000				0.0361	

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-15.qld

Last Altered: Tuesday, December 24, 2019 12:15:34 PM Pacific Standard Time

Printed: Tuesday, December 24, 2019 12:17:02 PM Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_15, Date: 18-Dec-2019, Time: 13:23:13, ID: 1903655-14 PDI-067SC-A-13-13.8-191010 14.67, Description: PDI-067SC-A-13-13.8-191010

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	Total Hexa-Dioxins	33.19	1.531e3	2.200e3	5.574e1	6.834e1	0.82	YES	0.000e0	0.00000	0.11243	0.151

**Hepta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Tetra-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Furans function 1**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-15.qld

Last Altered: Tuesday, December 24, 2019 12:15:34 PM Pacific Standard Time  
Printed: Tuesday, December 24, 2019 12:17:02 PM Pacific Standard Time

Name: 191217K3\_15, Date: 18-Dec-2019, Time: 13:23:13, ID: 1903655-14 PDI-067SC-A-13-13.8-191010 14.67, Description: PDI-067SC-A-13-13.8-191010

**Penta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hepta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Dataset: Untitled

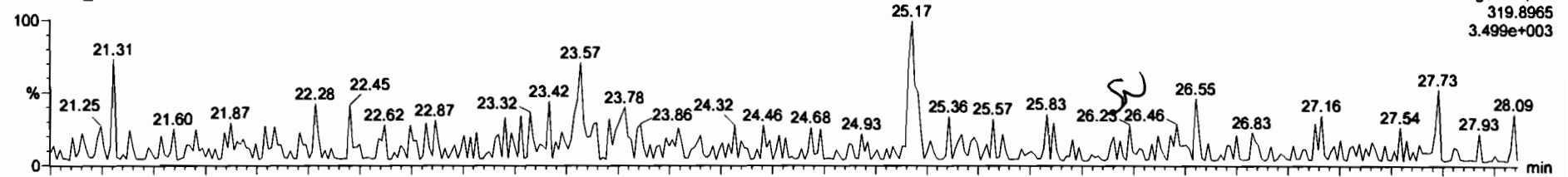
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

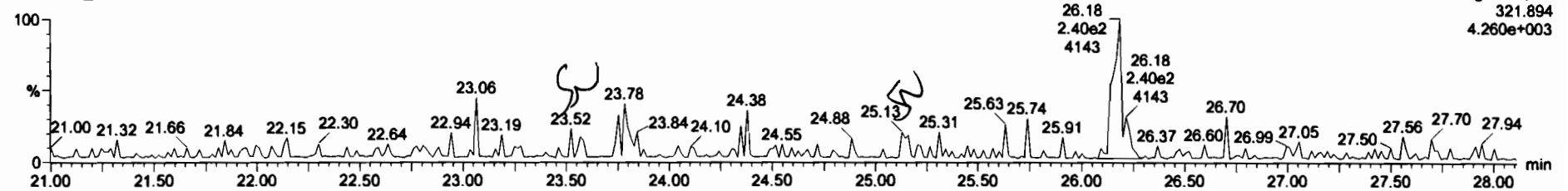
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2,3,7,8-TCDD

191217K3\_15

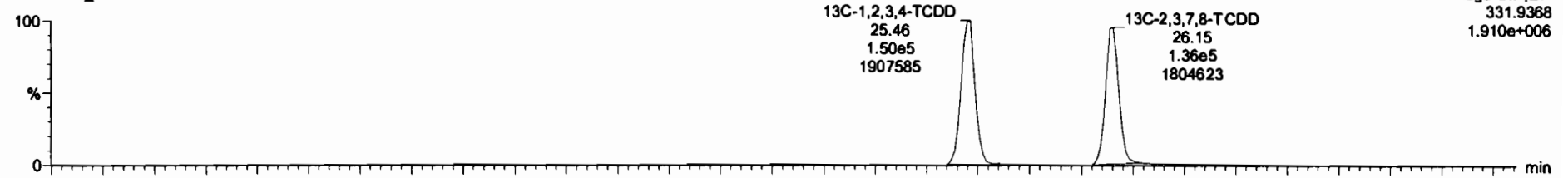


191217K3\_15

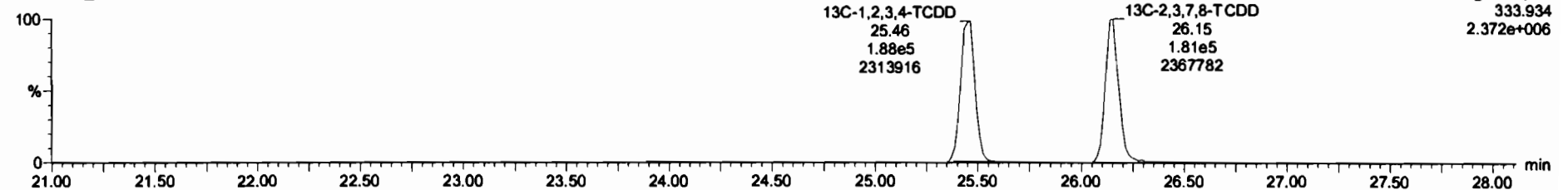


13C-2,3,7,8-TCDD

191217K3\_15



191217K3\_15



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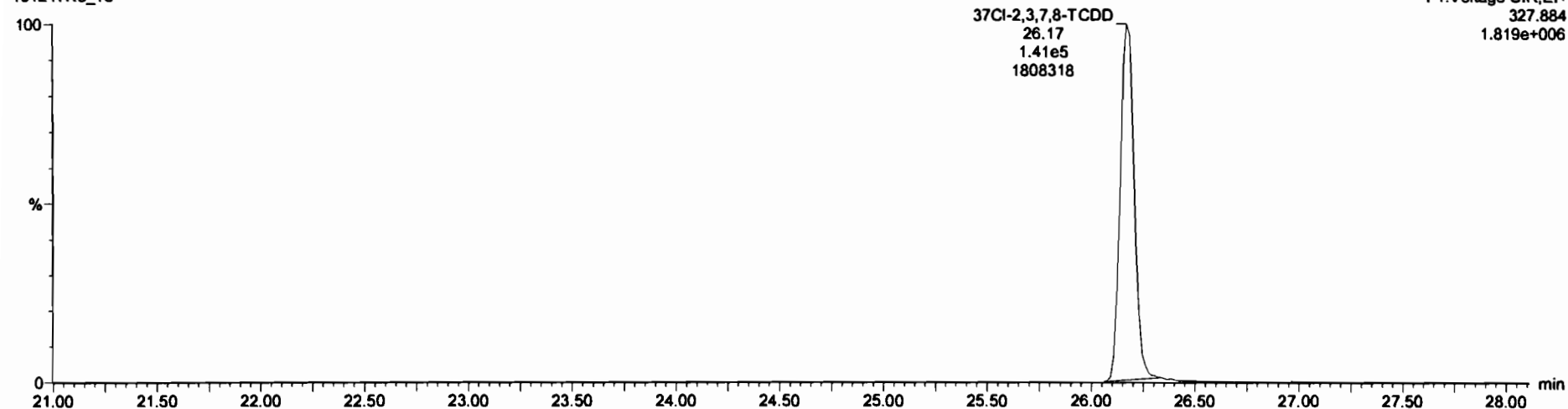
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

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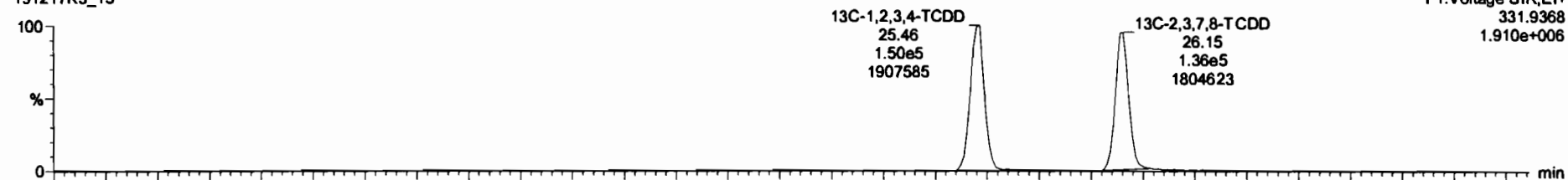
37Cl-2,3,7,8-TCDD

191217K3\_15

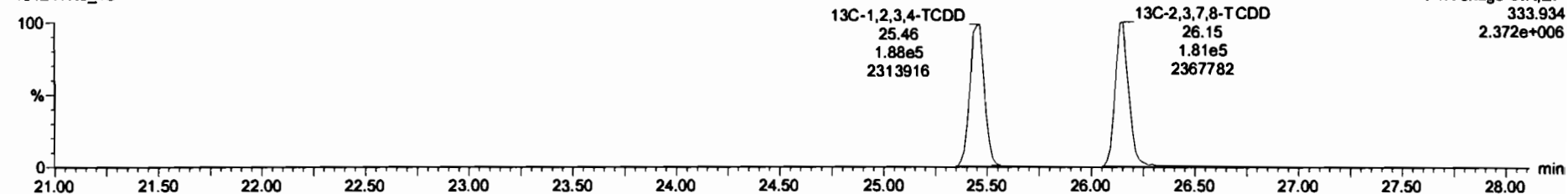


13C-1,2,3,4-TCDD

191217K3\_15



191217K3\_15





Dataset: Untitled

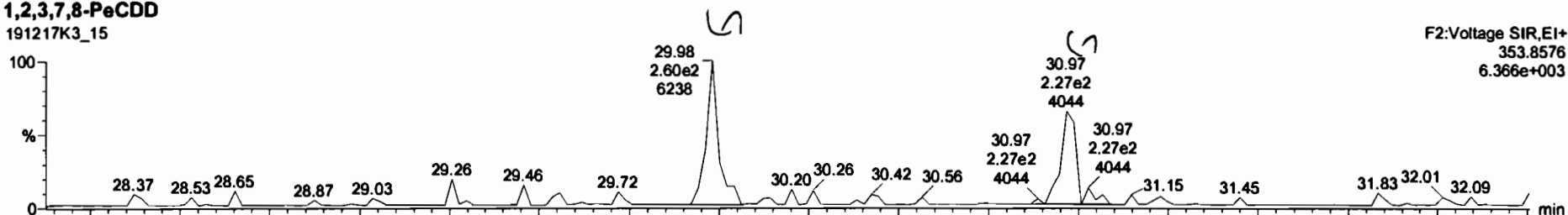
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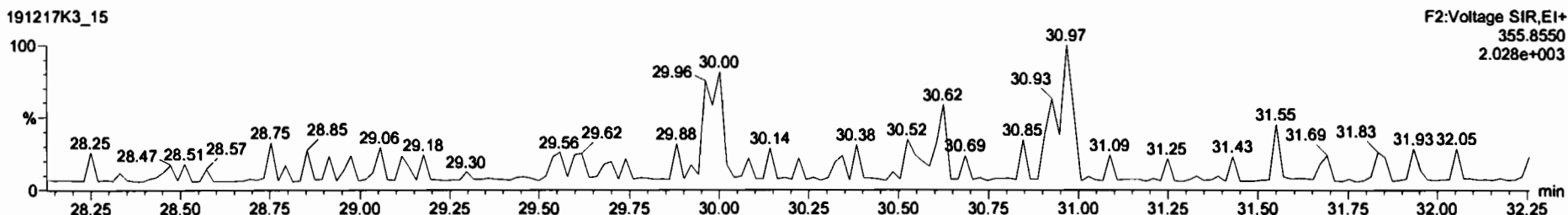
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**1,2,3,7,8-PeCDD**

191217K3\_15

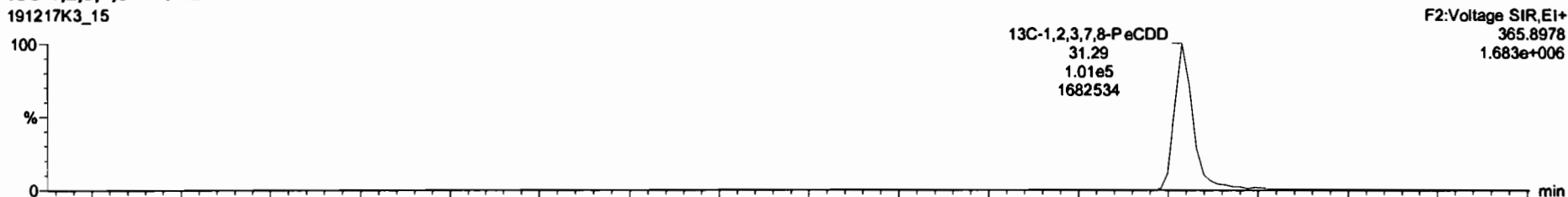


191217K3\_15

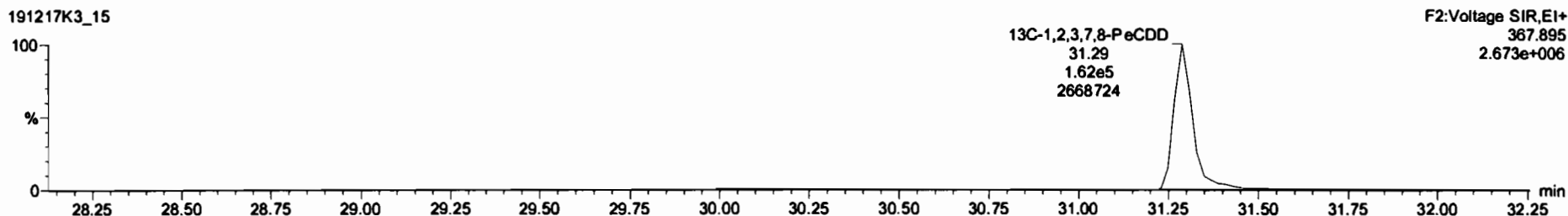


**13C-1,2,3,7,8-PeCDD**

191217K3\_15



191217K3\_15



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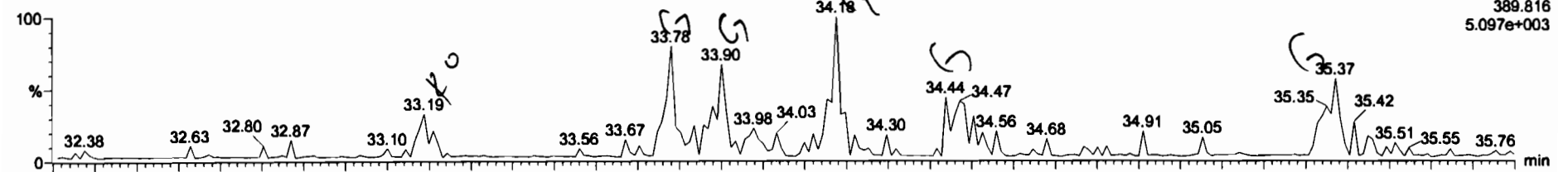
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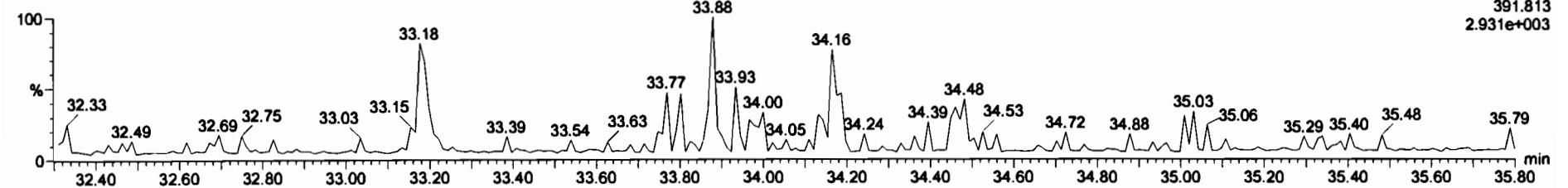
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1,2,3,4,7,8-HxCDD

191217K3\_15

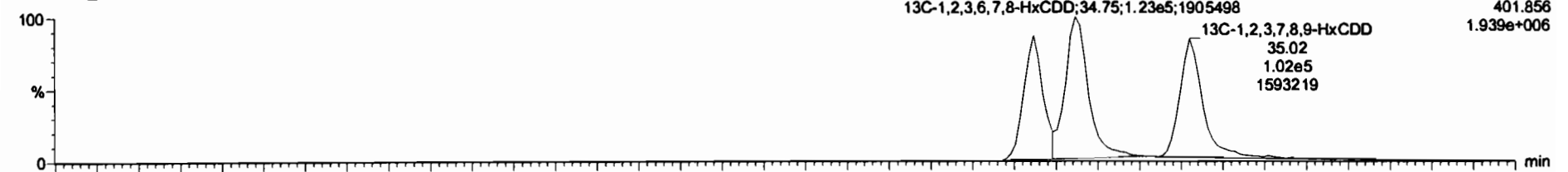


191217K3\_15

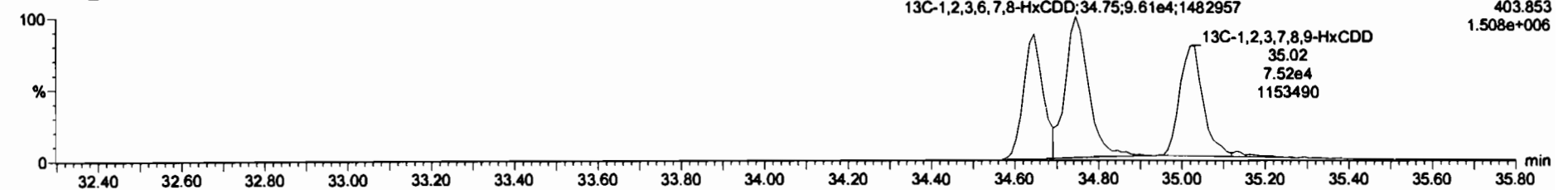


13C-1,2,3,4,7,8-HxCDD

191217K3\_15

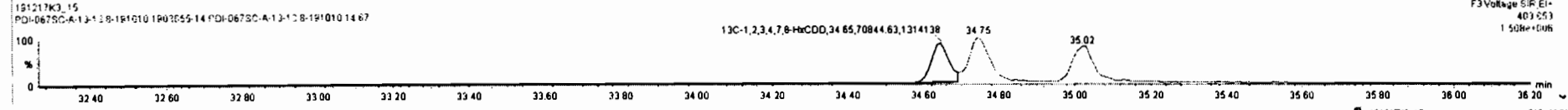
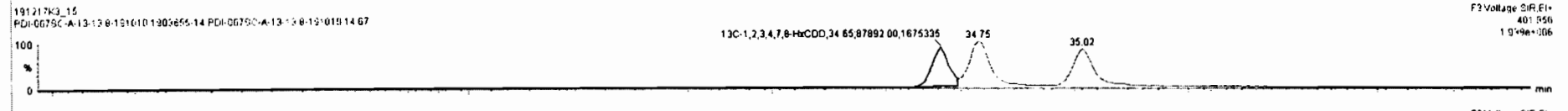
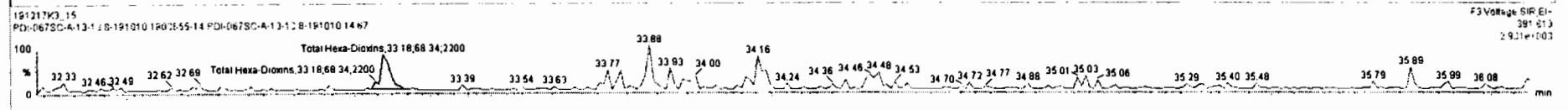
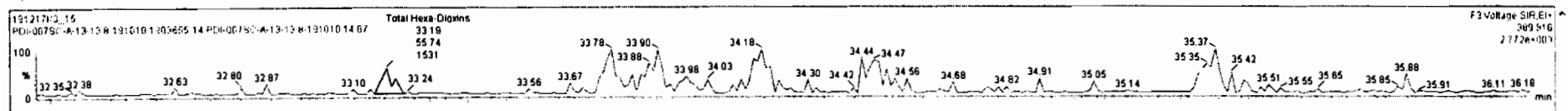


191217K3\_15



#	Name	Resp	RA	n/y	RRF	wtAvd	RT	RRT	Conc	%Rec	DL	EMPC
27	13C-2,3,4,7,8-PeCDF	3.70e5	1.66	NO	0.7498	10.007	30.97	1.216	162	81.1	1.04	
28	13C-1,2,3,4,7,8-HxCDF	2.44e5	0.52	NO	0.8452	10.007	33.78	0.988	158	79.7	1.59	
29	13C-1,2,3,6,7,8-HxCDF	3.20e5	0.50	NO	1.0267	10.007	33.89	0.992	172	85.9	1.31	
30	13C-2,3,4,6,7,8-HxCDF	2.81e5	0.50	NO	0.8929	10.007	34.47	1.009	173	86.7	1.50	
31	13C-1,2,3,7,8-HxCDF	2.35e5	0.49	NO	0.7343	10.007	35.35	1.035	176	88.3	1.83	
32	13C-1,2,3,4,6,7,8-HpCDF	2.25e5	0.46	NO	0.7542	10.007	37.10	1.086	165	82.4	1.08	
33	13C-1,2,3,4,7,8,9-HpCDF	1.61e5	0.42	NO	0.5390	10.007	38.15	1.146	164	82.3	1.52	
34	13C-OCDF	4.02e5	0.89	NO	0.5925	10.007	42.00	1.229	374	93.5	1.33	
35	37Cl-2,3,7,8-TCDD	1.41e5			1.0885	10.007	26.17	1.028	77.7	97.3	0.127	
36	13C-1,2,3,4-TCDD	3.39e5	0.80	NO	1.0000	10.007	25.47	1.000	200	100	0.666	
37	13C-1,2,3,4-TCDF	6.09e5	0.77	NO	1.0000	10.007	23.57	1.000	200	100	0.536	
38	13C-1,2,3,4,6,8-HxCDF	3.63e5	0.50	NO	1.0000	10.007	34.16	1.000	200	100	1.34	

#	Name	RT	wt Resp	wt3 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Dioxins	33.19	5.574e1	6.834e1	0.82	YES	0.11243	0.00000

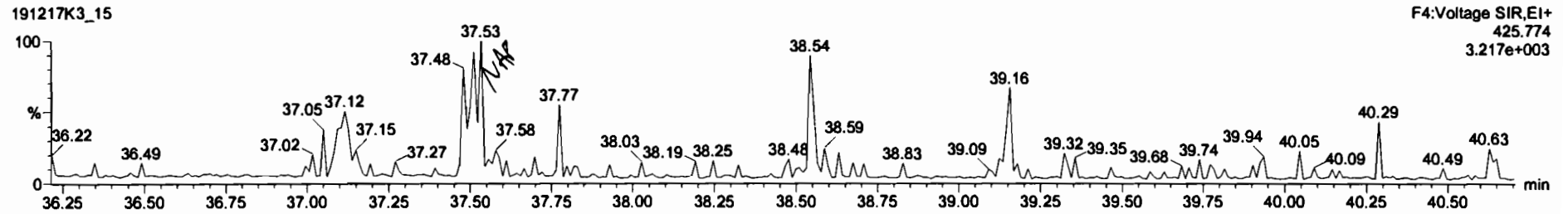
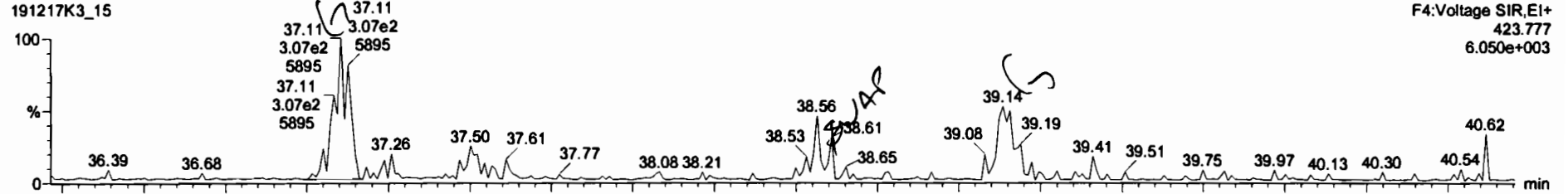


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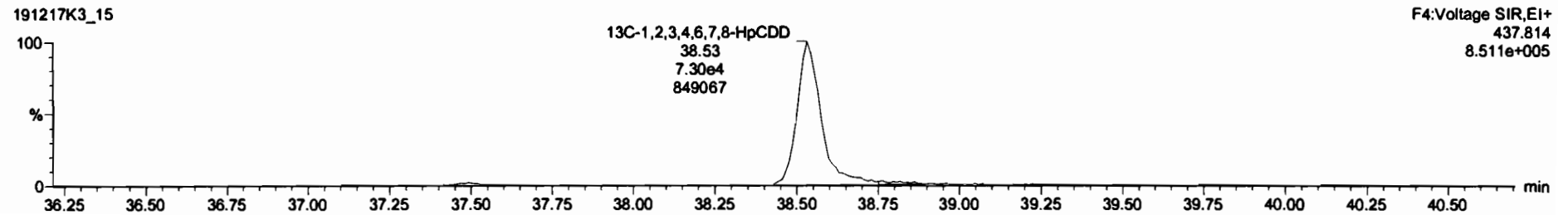
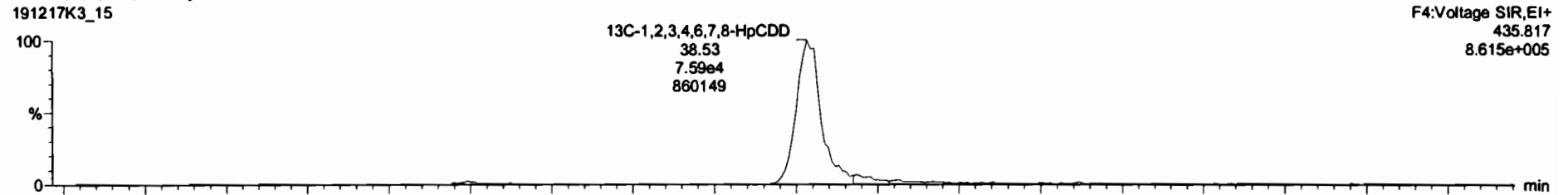
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_15, Date: 18-Dec-2019, Time: 13:23:13, ID: 1903655-14 PDI-067SC-A-13-13.8-191010 14.67, Description: PDI-067SC-A-13-13.8-191010

1,2,3,4,6,7,8-HpCDD



13C-1,2,3,4,6,7,8-HpCDD

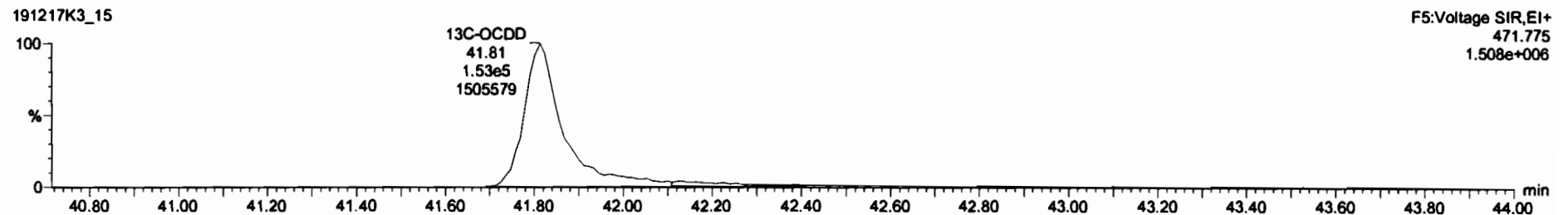
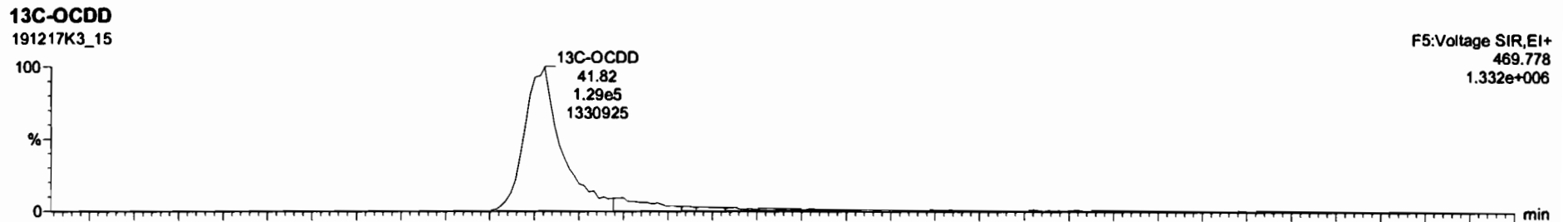
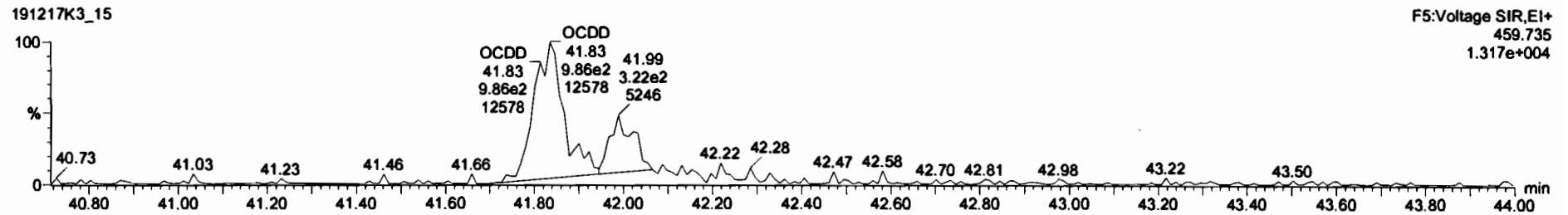
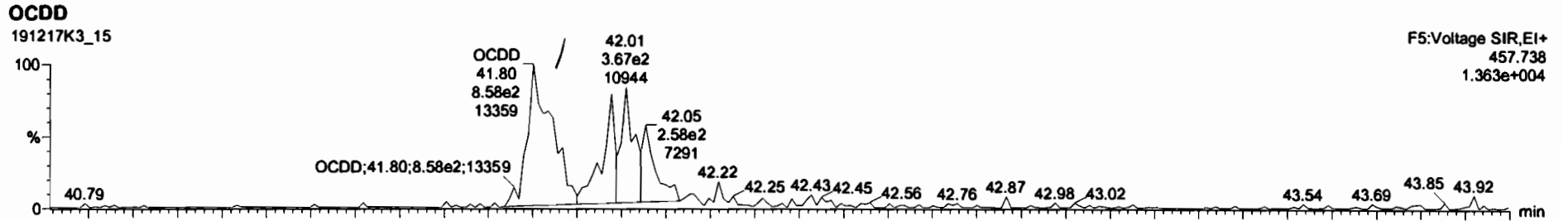


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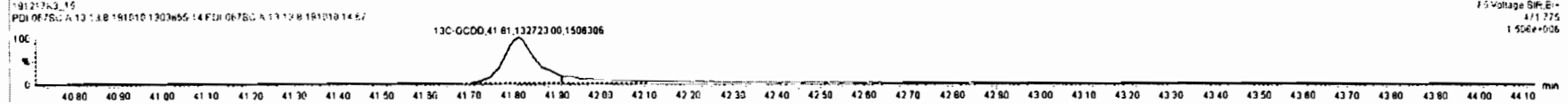
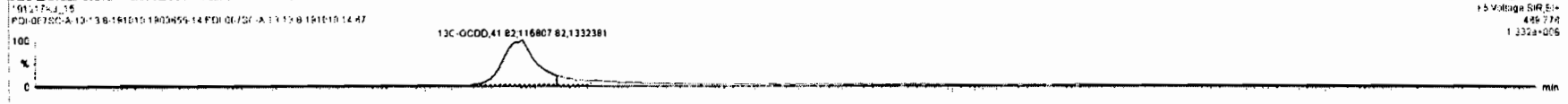
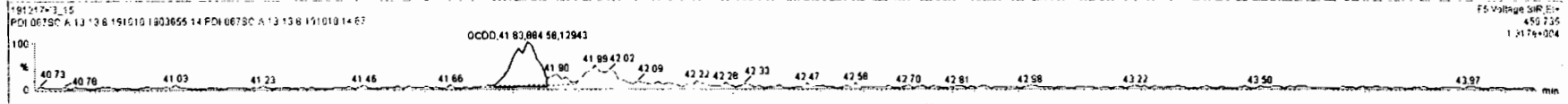
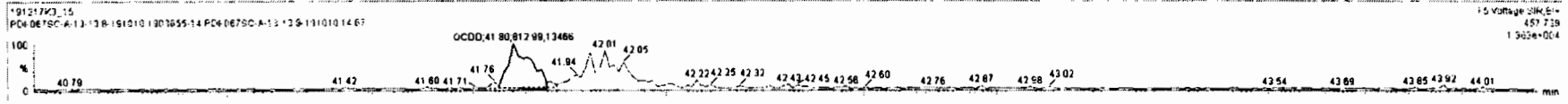
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#	Name	Resp	RA	n/y	RF	Index	RT	RRT	Conc.	%Inc	IS	EMPC
1	2,3,7,8-TCDD			NO	0.9249	10.007					0.148	
2	1,2,3,7,8-PeCDD			NO	0.9048	10.007					0.177	
3	1,2,3,4,7,8-HxCDD			NO	1.0891	10.007					0.223	
4	1,2,3,6,7,8-HxCDD			NO	0.9675	10.007					0.230	
5	1,2,3,7,8,9-HxCDD			NO	0.9778	10.007					0.266	
6	1,2,3,4,6,7,8-HpCDD			NO	1.0375	10.007					0.347	
7	OCDD	1.70e8	0.82	NO	0.8718	10.007	41.80	0.888	2.80		0.580	2.80
8	2,3,7,8-TCDF			NO	0.9376	10.007					0.0614	
9	1,2,3,7,8-PeCDF			NO	0.9762	10.007					0.0423	
10	2,3,4,7,8-PeCDF			NO	1.0049	10.007					0.0413	
11	1,2,3,4,7,8-HxCDF			NO	1.2434	10.007					0.0358	
12	1,2,3,6,7,8-HxCDF			NO	1.0950	10.007					0.0385	

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1								



Dataset: U:\VG11.PRO\Results\191217K3\191217K3-15.qld

Last Altered: Tuesday, December 24, 2019 12:15:34 PM Pacific Standard Time  
Printed: Tuesday, December 24, 2019 12:17:02 PM Pacific Standard Time

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1/6/20*

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57  
Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_15, Date: 18-Dec-2019, Time: 13:23:13, ID: 1903655-14 PDI-067SC-A-13-13.8-191010 14.67, Description: PDI-067SC-A-13-13.8-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.925	10.007	26.184		1.001				0.148	
2	2 1,2,3,7,8-PeCDD			NO	0.905	10.007	31.311		1.001				0.127	
3	3 1,2,3,4,7,8-HxCDD			NO	1.07	10.007	34.657		1.000				0.223	
4	4 1,2,3,6,7,8-HxCDD			NO	0.967	10.007	34.746		1.000				0.220	
5	5 1,2,3,7,8,9-HxCDD			NO	0.978	10.007	35.055		1.001				0.266	
6	6 1,2,3,4,6,7,8-HpCDD			NO	1.04	10.007	38.544		1.000				0.347	
7	7 OCDD	1.70e3	0.92	NO	0.972	10.007	41.824	41.80	1.000	0.999	2.7983		0.580	2.80
8	8 2,3,7,8-TCDF			NO	0.938	10.007	25.199		1.001				0.0614	
9	9 1,2,3,7,8-PeCDF			NO	0.976	10.007	30.002		1.001				0.0423	
10	10 2,3,4,7,8-PeCDF			NO	1.00	10.007	30.998		1.001				0.0413	
11	11 1,2,3,4,7,8-HxCDF			NO	1.24	10.007	33.780		1.000				0.0358	
12	12 1,2,3,6,7,8-HxCDF			NO	1.10	10.007	33.900		1.000				0.0365	
13	13 2,3,4,6,7,8-HxCDF			NO	1.18	10.007	34.506		1.001				0.0358	
14	14 1,2,3,7,8,9-HxCDF			NO	1.07	10.007	35.349		1.000				0.0553	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.13	10.007	37.142		1.001				0.0546	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.26	10.007	39.146		1.000				0.0689	
17	17 OCDF			NO	1.10	10.007	41.999		1.000				0.137	
18	18 13C-2,3,7,8-TCDD	3.16e5	0.75	NO	1.05	10.007	26.163	26.15	1.027	1.027	178.02	89.1	0.635	
19	19 13C-1,2,3,7,8-PeCDD	2.63e5	0.62	NO	0.743	10.007	31.309	31.29	1.230	1.229	208.68	104	0.502	
20	20 13C-1,2,3,4,7,8-HxCDD	1.59e5	1.24	NO	0.646	10.007	34.635	34.65	1.014	1.014	135.26	67.7	1.19	
21	21 13C-1,2,3,6,7,8-HxCDD	2.20e5	1.29	NO	0.777	10.007	34.735	34.75	1.017	1.017	155.67	77.9	0.989	
22	22 13C-1,2,3,7,8,9-HxCDD	1.77e5	1.35	NO	0.659	10.007	35.008	35.02	1.025	1.025	147.56	73.8	1.16	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.49e5	1.04	NO	0.534	10.007	38.506	38.53	1.127	1.128	153.57	76.8	1.09	
24	24 13C-OCDD	2.50e5	0.88	NO	0.470	10.007	41.786	41.82	1.223	1.224	292.14	73.1	1.92	
25	25 13C-2,3,7,8-TCDF	5.18e5	0.75	NO	0.977	10.007	25.175	25.17	0.989	0.989	174.07	87.1	0.548	
26	26 13C-1,2,3,7,8-PeCDF	3.68e5	1.50	NO	0.778	10.007	29.998	29.98	1.178	1.177	155.42	77.8	1.00	
27	27 13C-2,3,4,7,8-PeCDF	3.70e5	1.66	NO	0.750	10.007	30.988	30.97	1.217	1.216	162.04	81.1	1.04	
28	28 13C-1,2,3,4,7,8-HxCDF	2.44e5	0.52	NO	0.845	10.007	33.775	33.78	0.989	0.989	159.26	79.7	1.59	
29	29 13C-1,2,3,6,7,8-HxCDF	3.20e5	0.50	NO	1.03	10.007	33.891	33.89	0.992	0.992	171.70	85.9	1.31	
30	30 13C-2,3,4,6,7,8-HxCDF	2.81e5	0.50	NO	0.893	10.007	34.465	34.47	1.009	1.009	173.21	86.7	1.50	
31	31 13C-1,2,3,7,8,9-HxCDF	2.35e5	0.49	NO	0.734	10.007	35.367	35.35	1.035	1.035	176.49	88.3	1.83	

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-15.qld

Last Altered: Tuesday, December 24, 2019 12:15:34 PM Pacific Standard Time

Printed: Tuesday, December 24, 2019 12:17:02 PM Pacific Standard Time

Name: 191217K3\_15, Date: 18-Dec-2019, Time: 13:23:13, ID: 1903655-14 PDI-067SC-A-13-13.8-191010 14.67, Description: PDI-067SC-A-13-13.8-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	2.25e5	0.46	NO	0.754	10.007	37.082	37.10	1.085	1.086	164.62	82.4	1.08	
33	13C-1,2,3,4,7,8,9-HpCDF	1.61e5	0.42	NO	0.539	10.007	39.108	39.15	1.145	1.146	164.39	82.3	1.52	
34	13C-OCDF	4.02e5	0.89	NO	0.593	10.007	41.974	42.00	1.229	1.229	373.66	93.5	1.33	
35	37Cl-2,3,7,8-TCDD	1.41e5			1.07	10.007	26.183	26.17	1.028	1.028	77.748	97.3	0.127	
36	13C-1,2,3,4-TCDD	3.39e5	0.80	NO	1.00	10.007	25.450	25.47	1.000	1.000	199.86	100	0.666	
37	13C-1,2,3,4-TCDF	6.09e5	0.77	NO	1.00	10.007	23.550	23.57	1.000	1.000	199.86	100	0.536	
38	13C-1,2,3,4,6,9-HxCDF	3.63e5	0.50	NO	1.00	10.007	34.160	34.16	1.000	1.000	199.86	100	1.34	
39	Total Tetra-Dioxins				0.925	10.007	24.620		0.000				0.0881	
40	Total Penta-Dioxins				0.905	10.007	29.960		0.000				0.0516	
41	Total Hexa-Dioxins				0.967	10.007	33.635		0.000		0.00000		0.151	0.112
42	Total Hepta-Dioxins				1.04	10.007	38.800		0.000				0.189	
43	Total Tetra-Furans				0.938	10.007	23.610		0.000				0.0260	
44	1st Func. Penta-Furans				0.976	10.007	27.040		0.000				0.0139	
45	Total Penta-Furans				0.976	10.007	29.275		0.000				0.0170	
46	Total Hexa-Furans				1.18	10.007	33.555		0.000				0.0185	
47	Total Hepta-Furans				1.13	10.007	37.835		0.000				0.0361	



Dataset: U:\VG11.PRO\Results\191217K3\191217K3-15.qld

Last Altered: Tuesday, December 24, 2019 12:15:34 PM Pacific Standard Time  
 Printed: Tuesday, December 24, 2019 12:17:02 PM Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57  
 Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_15, Date: 18-Dec-2019, Time: 13:23:13, ID: 1903655-14 PDI-067SC-A-13-13.8-191010 14.67, Description: PDI-067SC-A-13-13.8-191010

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	Total Hexa-Dioxins	33.19	1.531e3	2.200e3	5.574e1	6.834e1	0.82	YES	0.000e0	0.00000	0.11243	0.151

**Hepta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Tetra-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Penta-Furans function 1**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-15.qld

Last Altered: Tuesday, December 24, 2019 12:15:34 PM Pacific Standard Time

Printed: Tuesday, December 24, 2019 12:17:02 PM Pacific Standard Time

Name: 191217K3\_15, Date: 18-Dec-2019, Time: 13:23:13, ID: 1903655-14 PDI-067SC-A-13-13.8-191010 14.67, Description: PDI-067SC-A-13-13.8-191010

**Penta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hexa-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

**Hepta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

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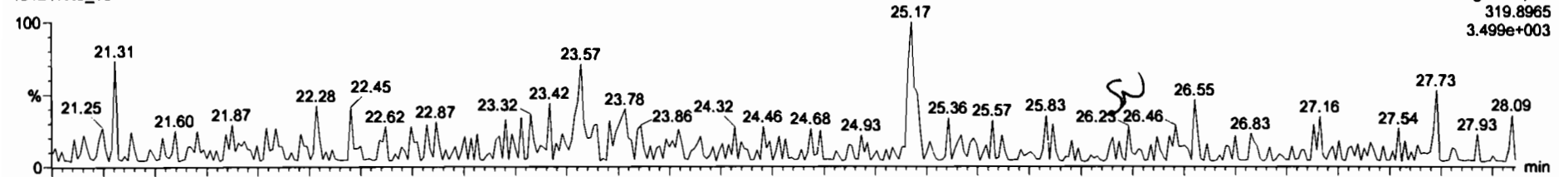
Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

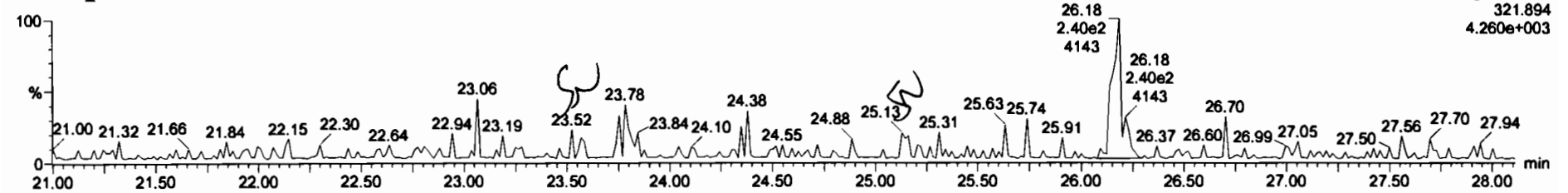
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**2,3,7,8-TCDD**

191217K3\_15

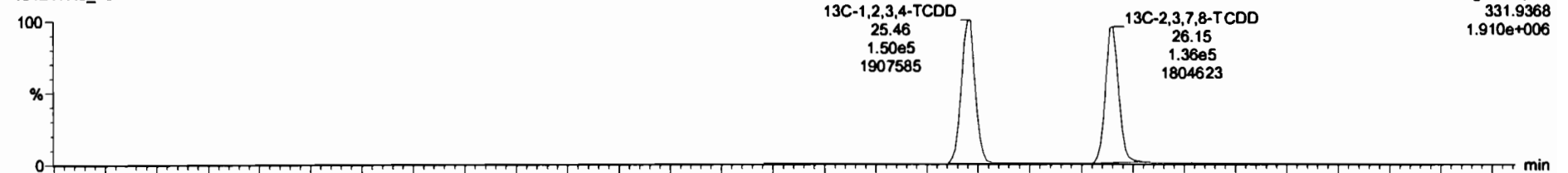


191217K3\_15

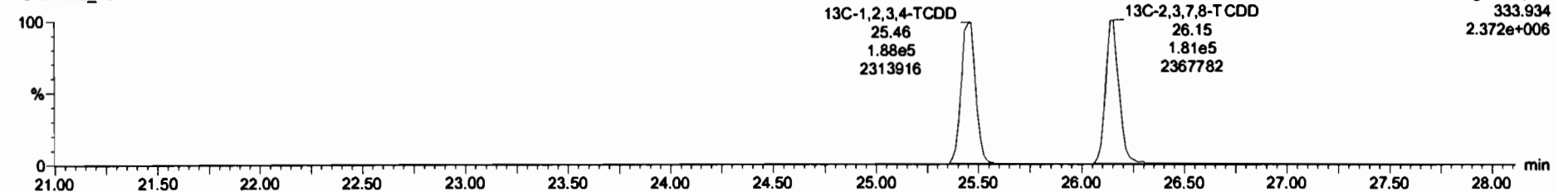


**13C-2,3,7,8-TCDD**

191217K3\_15



191217K3\_15



Dataset: Untitled

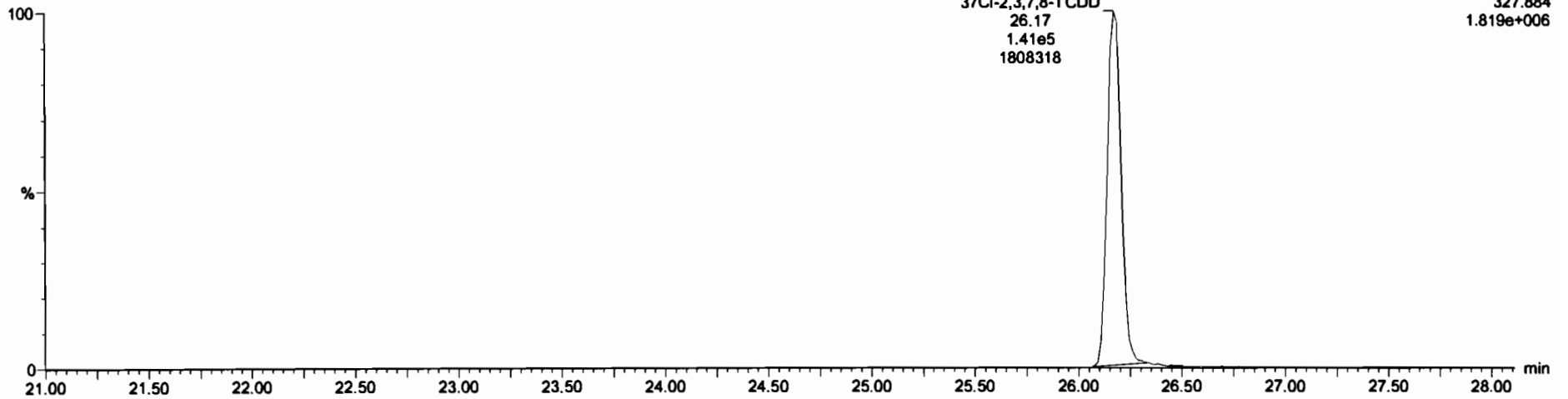
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_15, Date: 18-Dec-2019, Time: 13:23:13, ID: 1903655-14 PDI-067SC-A-13-13.8-191010 14.67, Description: PDI-067SC-A-13-13.8-191010

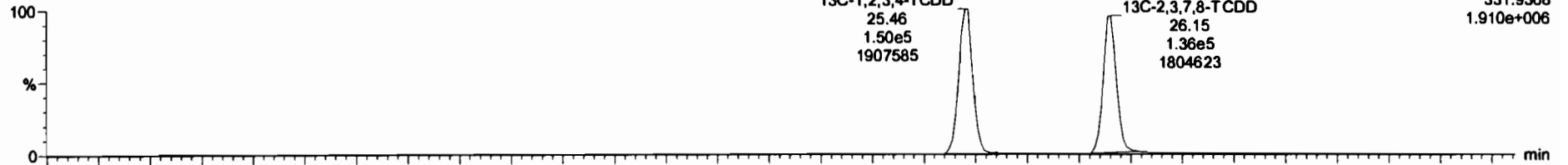
**37Cl-2,3,7,8-TCDD**

191217K3\_15

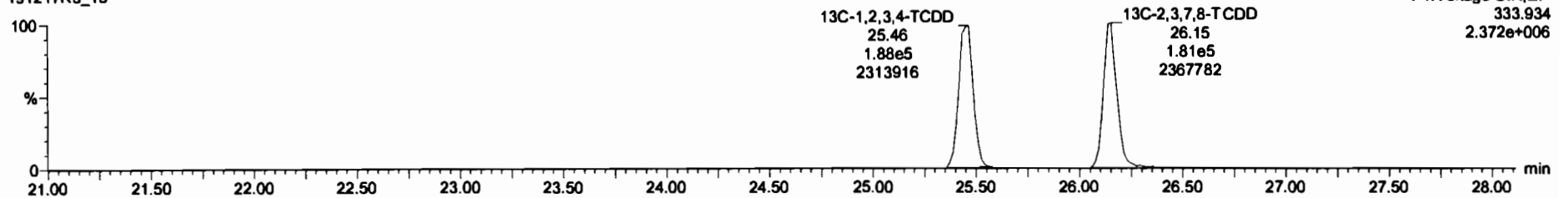


**13C-1,2,3,4-TCDD**

191217K3\_15



191217K3\_15



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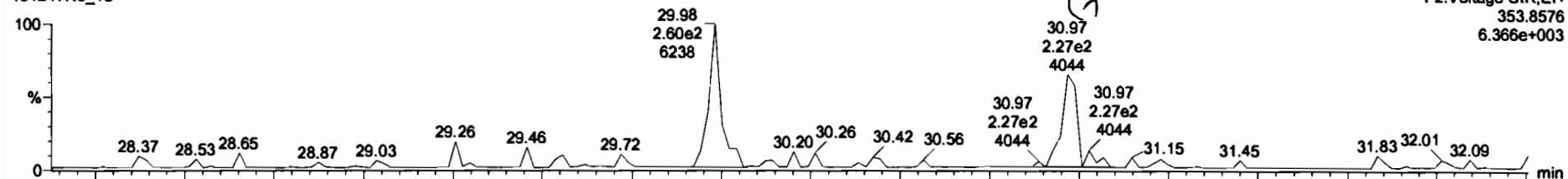
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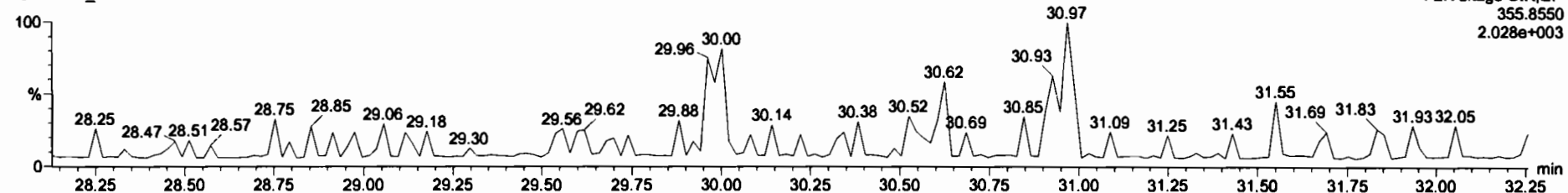
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1,2,3,7,8-PeCDD

191217K3\_15

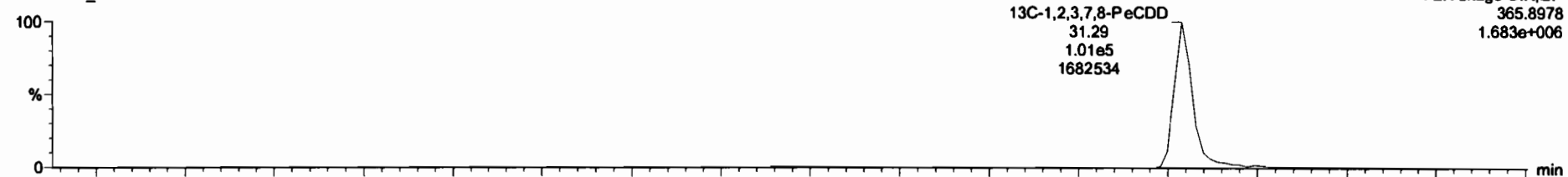


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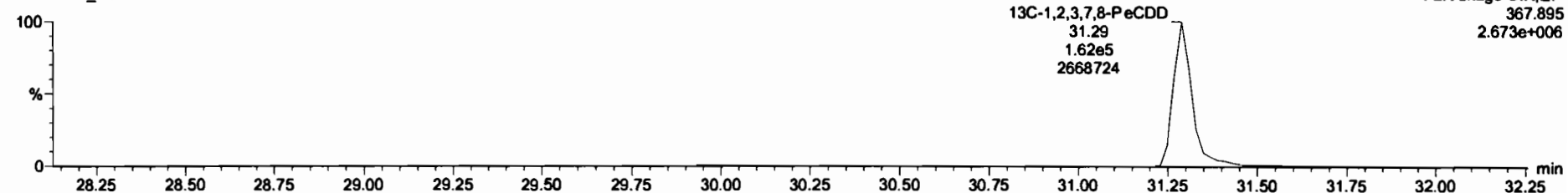


13C-1,2,3,7,8-PeCDD

191217K3\_15



191217K3\_15



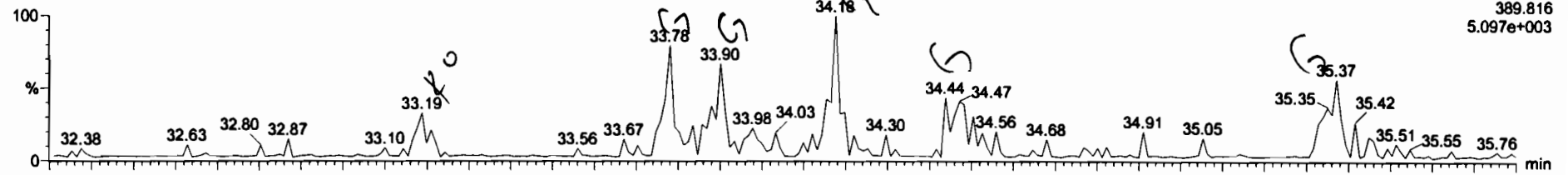
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

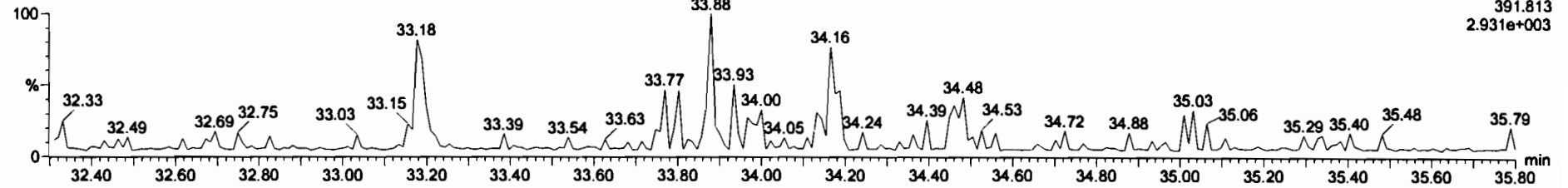
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1,2,3,4,7,8-HxCDD

191217K3\_15

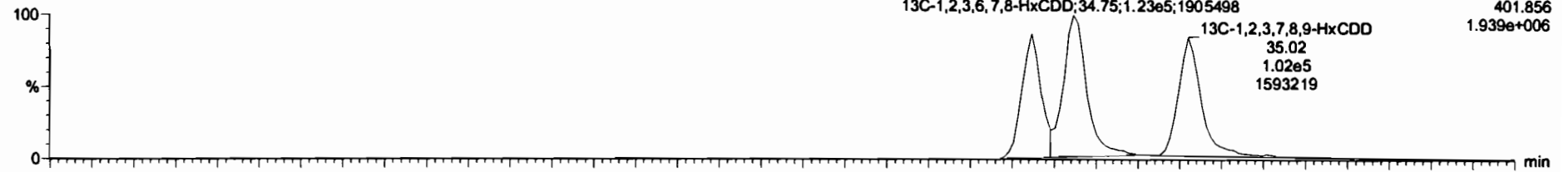


191217K3\_15

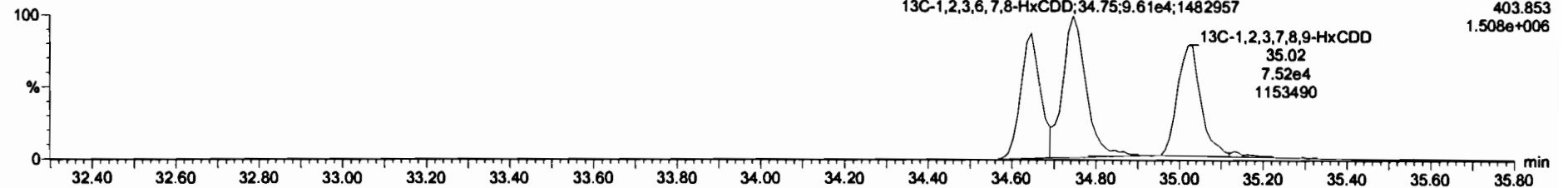


13C-1,2,3,4,7,8-HxCDD

191217K3\_15

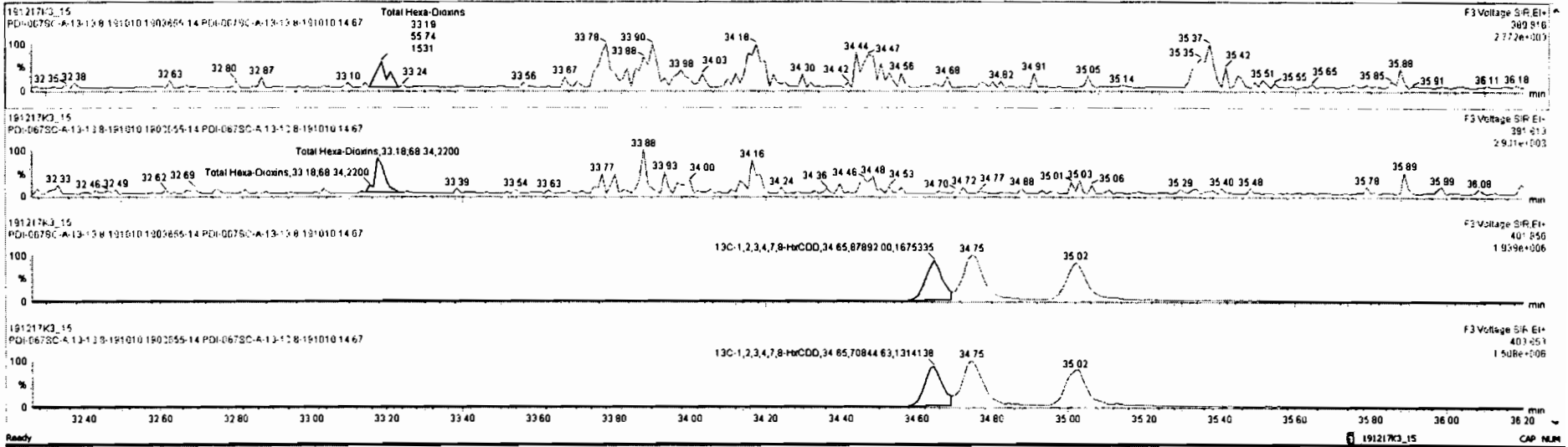


191217K3\_15



#	Name	Resp	RA	n/y	FWF	wtAval	RT	RRT	Conc	%Rec	DL	EMPC
27	13C-2,3,4,7,8-PeCDF	3.70e5	1.66	NO	0.7498	10.007	30.97	1.216	162	81.1	1.04	
28	13C-1,2,3,4,7,8-HxCDF	2.44e5	0.52	NO	0.8452	10.007	33.78	0.989	158	79.7	1.59	
29	13C-1,2,3,6,7,8-HxCDF	3.20e5	0.50	NO	1.0267	10.007	33.88	0.992	172	85.9	1.31	
30	13C-2,3,4,6,7,8-HxCDF	2.81e5	0.50	NO	0.8928	10.007	34.47	1.009	173	86.7	1.50	
31	13C-1,2,3,7,8,9-HxCDF	2.35e5	0.49	NO	0.7343	10.007	35.35	1.035	176	88.3	1.83	
32	13C-1,2,3,4,6,7,8-HxCDF	2.25e5	0.46	NO	0.7542	10.007	37.10	1.086	165	82.4	1.08	
33	13C-1,2,3,4,7,8,9-HxCDF	1.61e5	0.42	NO	0.5390	10.007	39.15	1.146	164	82.3	1.52	
34	13C-OCDF	4.02e5	0.89	NO	0.5925	10.007	42.00	1.229	374	93.5	1.33	
35	37Cl-2,3,7,8-TCDF	1.41e5			1.0695	10.007	26.17	1.028	77.7	97.3	0.127	
36	13C-1,2,3,4-TCDF	3.39e5	0.80	NO	1.0000	10.007	25.47	1.000	200	100	0.666	
37	13C-1,2,3,4-TCDF	6.09e5	0.77	NO	1.0000	10.007	23.57	1.000	200	100	0.536	
38	13C-1,2,3,4,6,8-HxCDF	3.63e5	0.50	NO	1.0000	10.007	34.16	1.000	200	100	1.34	

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	33.19	5.574e1	6.894e1	0.82	YES	0.11243	0.00000

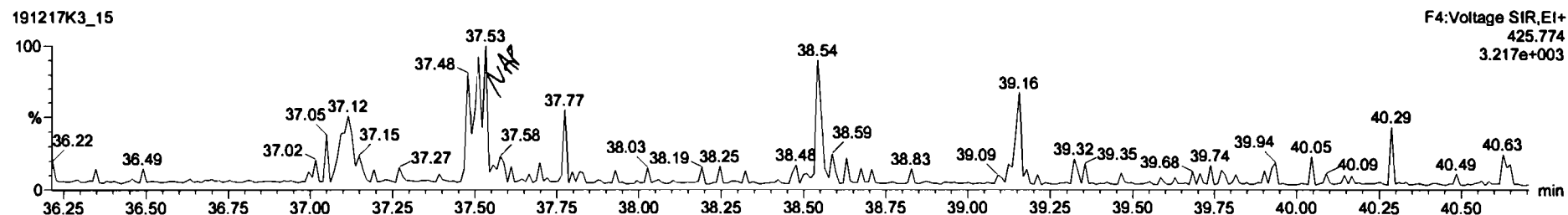
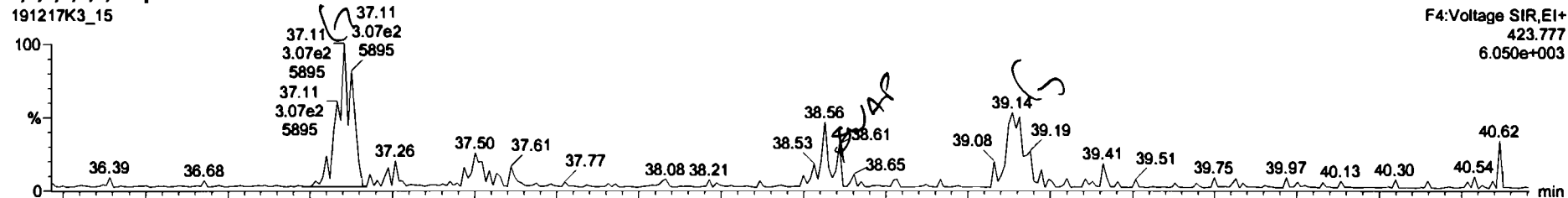


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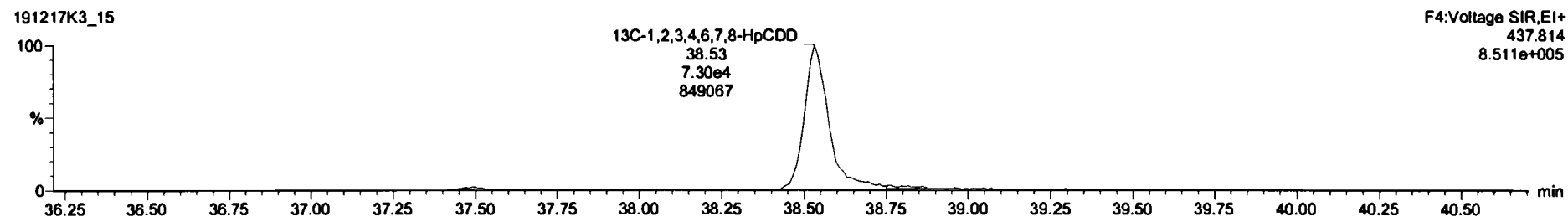
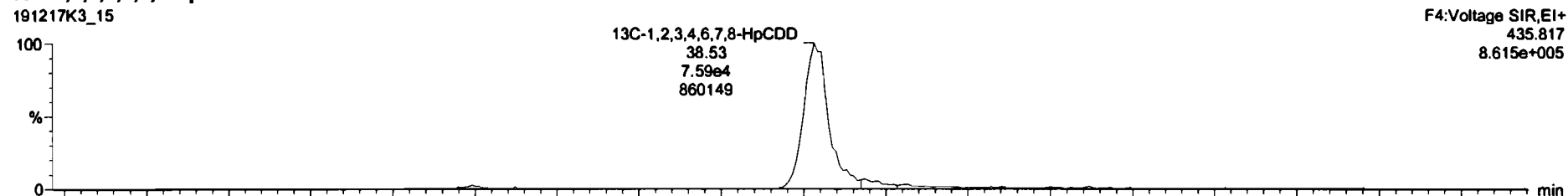
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Name: 191217K3\_15, Date: 18-Dec-2019, Time: 13:23:13, ID: 1903655-14 PDI-067SC-A-13-13.8-191010 14.67, Description: PDI-067SC-A-13-13.8-191010

1,2,3,4,6,7,8-HpCDD



13C-1,2,3,4,6,7,8-HpCDD



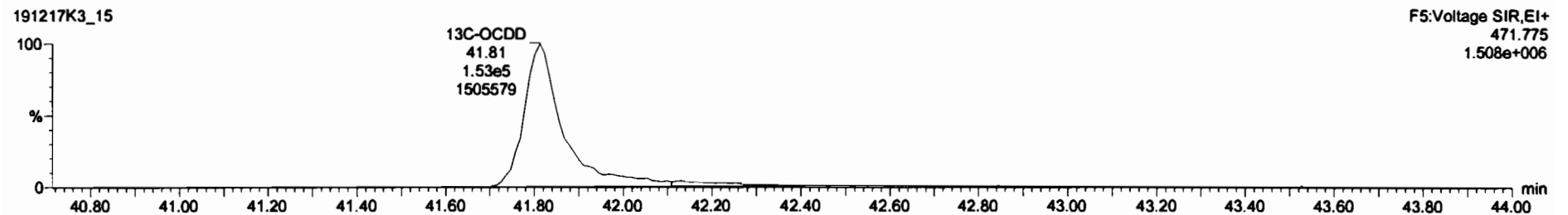
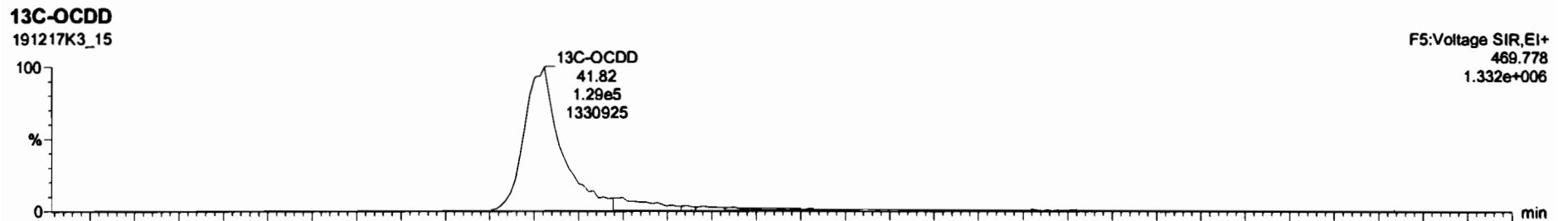
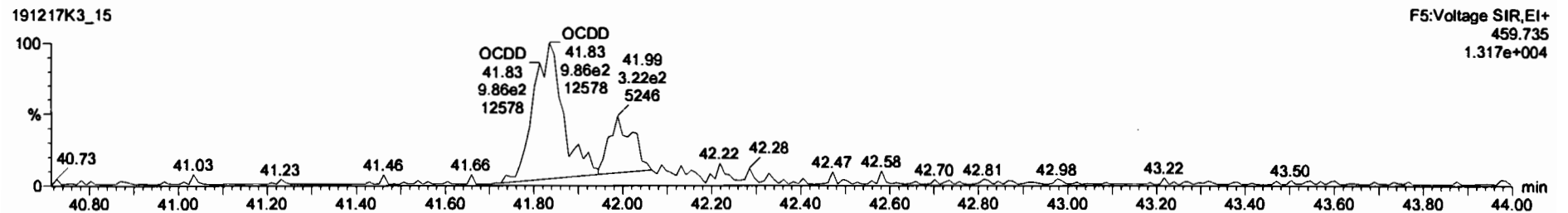
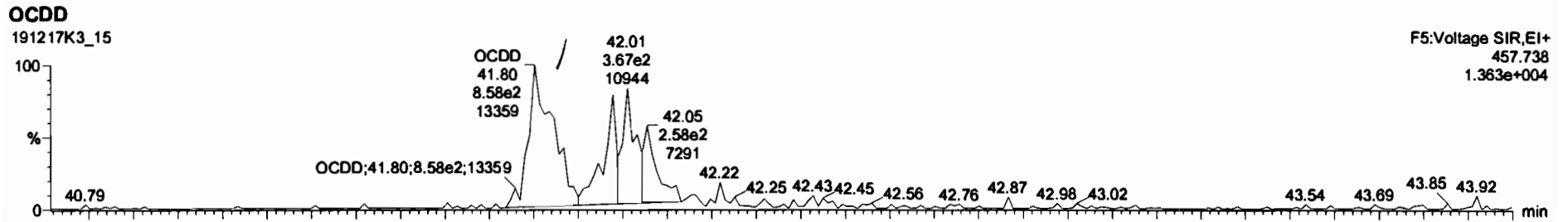


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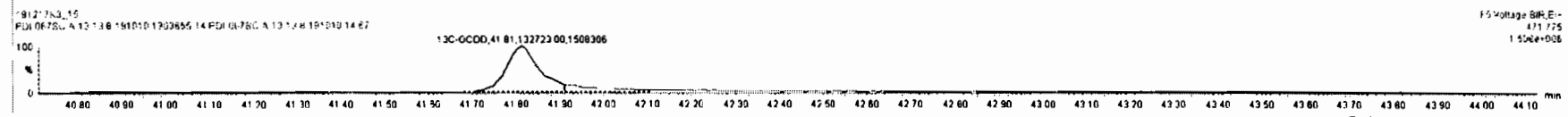
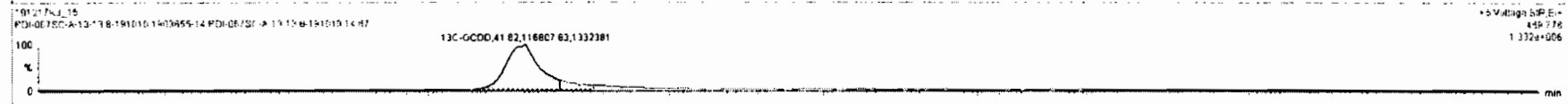
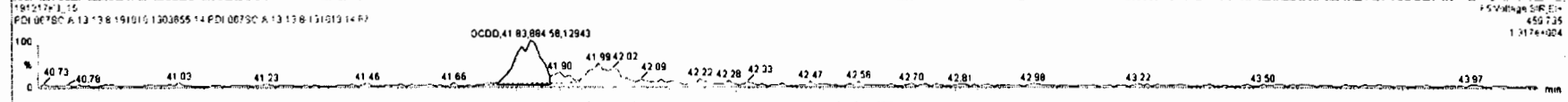
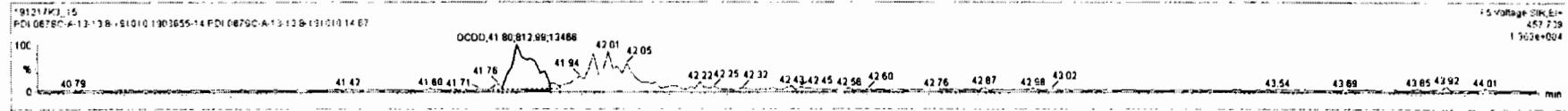
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#	Name	Resp	RA	rv	RIF	width	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDF				NO	0.9249	10.007				0.148	
2	1,2,3,7,8-PeCDD				NO	0.9046	10.007				0.177	
3	1,2,3,4,7,8-HxCDD				NO	1.0691	10.007				0.223	
4	1,2,3,6,7,8-HxCDD				NO	0.9675	10.007				0.220	
5	1,2,3,7,8,9-HxCDD				NO	0.9778	10.007				0.266	
6	1,2,3,4,6,7,8-HpCDD				NO	1.0375	10.007				0.347	
7	OCDD	1.70a3	0.82		NO	0.9718	18.907	41.80	0.888	2.80	0.580	2.80
8	2,3,7,8-TCDF				NO	0.9376	10.007				0.0814	
9	1,2,3,7,8-PeCDF				NO	0.9762	10.007				0.0423	
10	2,3,4,7,8-PeCDF				NO	1.0049	10.007				0.0413	
11	1,2,3,4,7,8-HxCDF				NO	1.2434	10.007				0.0398	
12	1,2,3,6,7,8-HxCDF				NO	1.0950	10.007				0.0365	

#	Name	RT	m1 Resp	m2 Resp	RA	rv	EMPC	Conc
1								



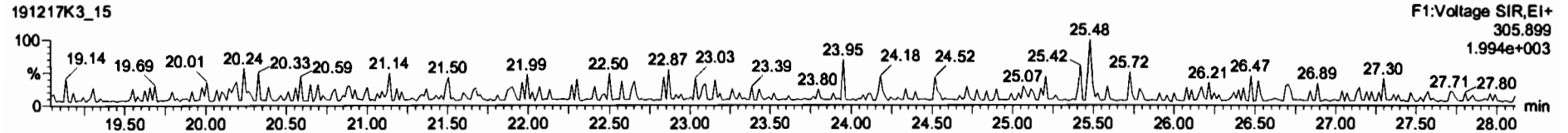
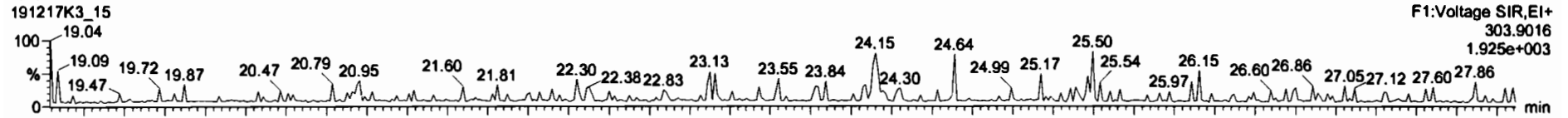
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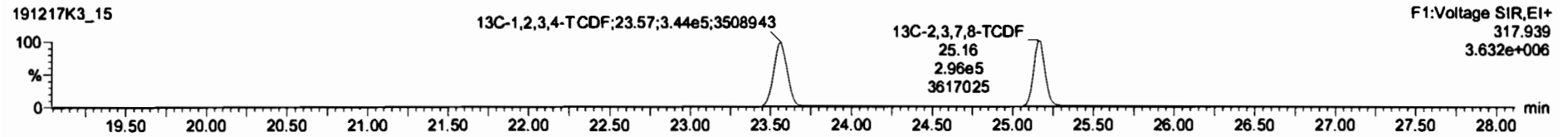
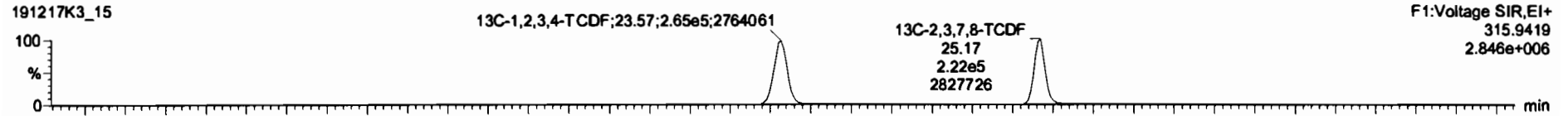
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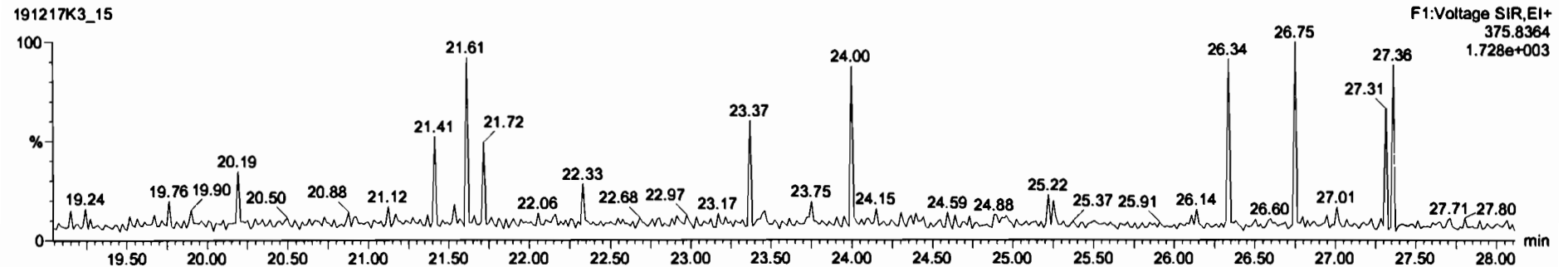
**2,3,7,8-TCDF**



**13C-2,3,7,8-TCDF**



**DPE1**



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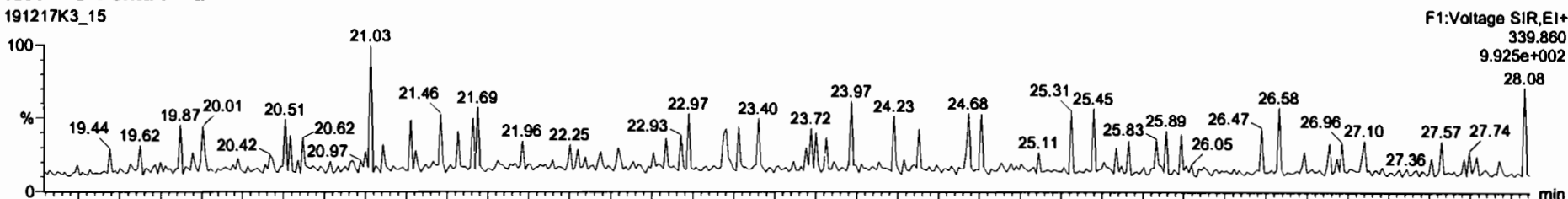
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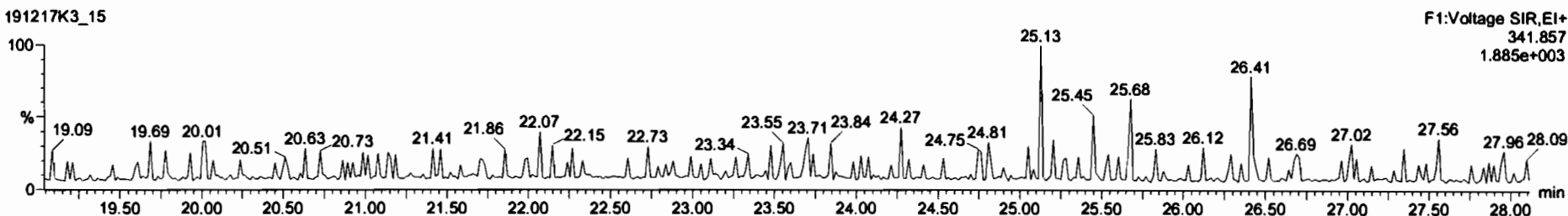
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1st Func. Penta-Furans

191217K3\_15

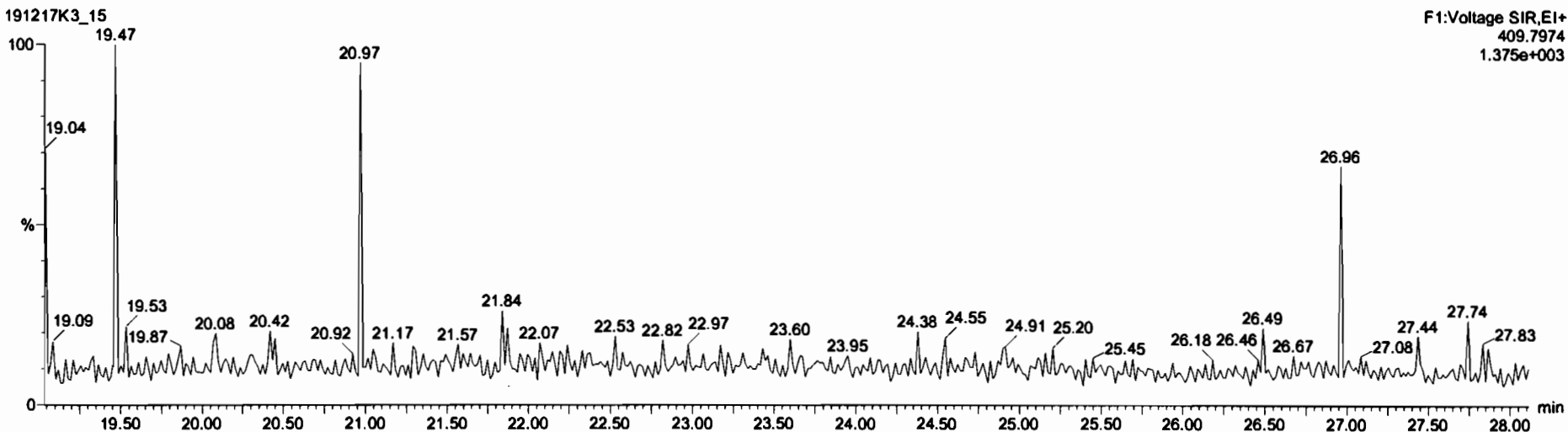


191217K3\_15



DPE6

191217K3\_15

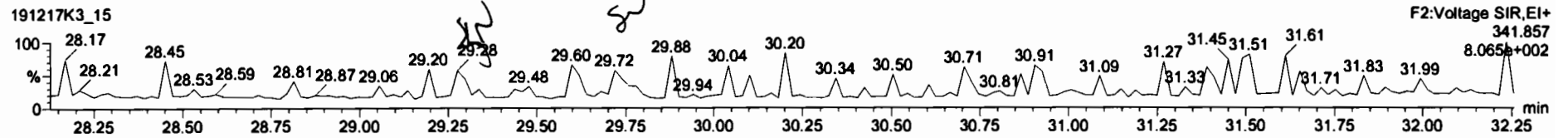
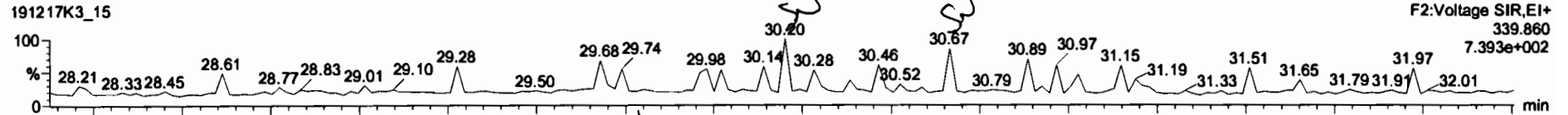


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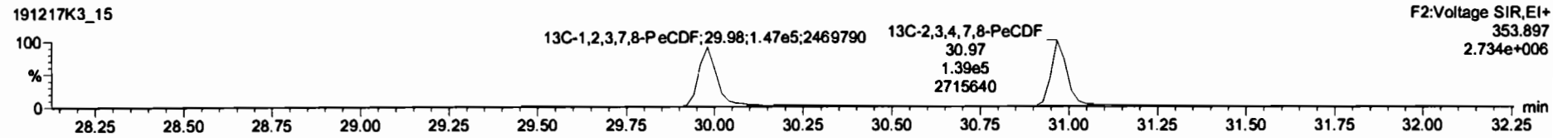
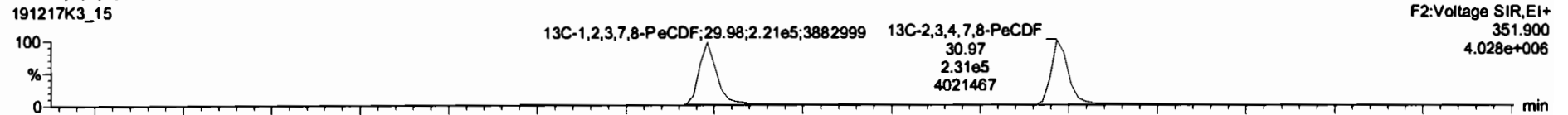
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_15, Date: 18-Dec-2019, Time: 13:23:13, ID: 1903655-14 PDI-067SC-A-13-13.8-191010 14.67, Description: PDI-067SC-A-13-13.8-191010

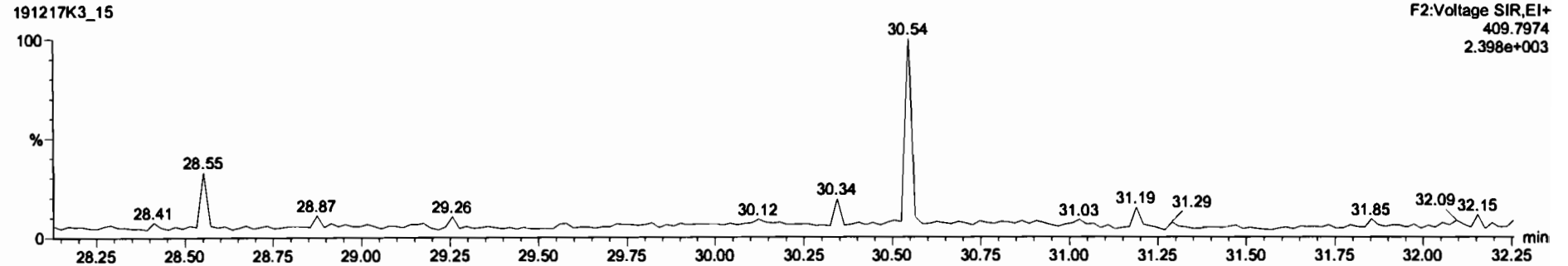
**1,2,3,7,8-PeCDF**



**13C-1,2,3,7,8-PeCDF**



**DPE2**



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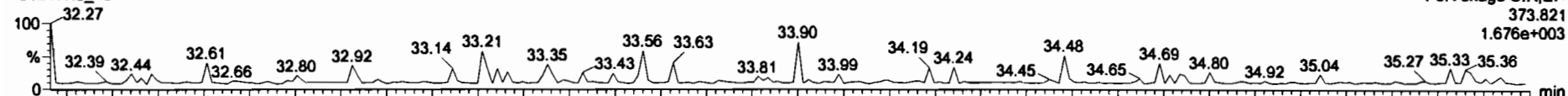
Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

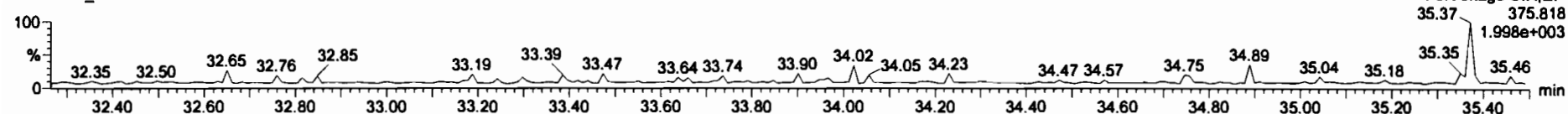
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**1,2,3,4,7,8-HxCDF**

191217K3\_15

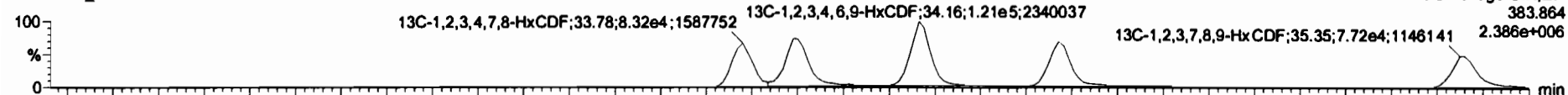


191217K3\_15

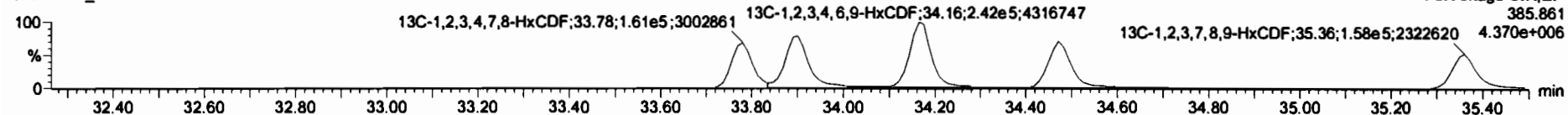


**13C-1,2,3,4,7,8-HxCDF**

191217K3\_15

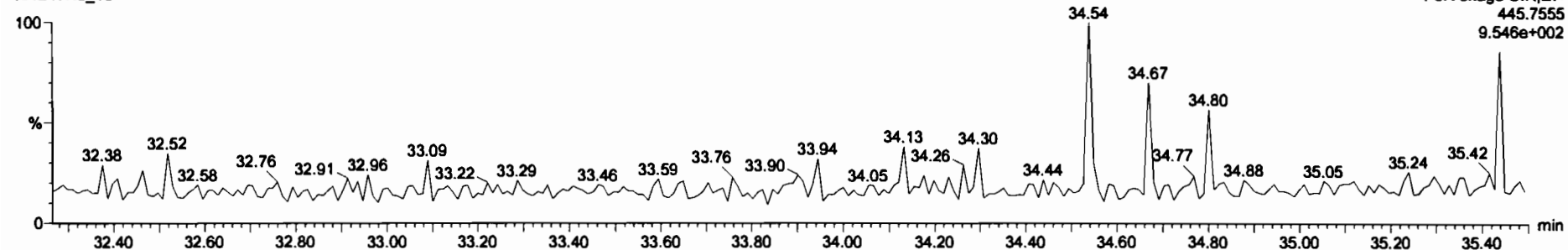


191217K3\_15



**DPE3**

191217K3\_15

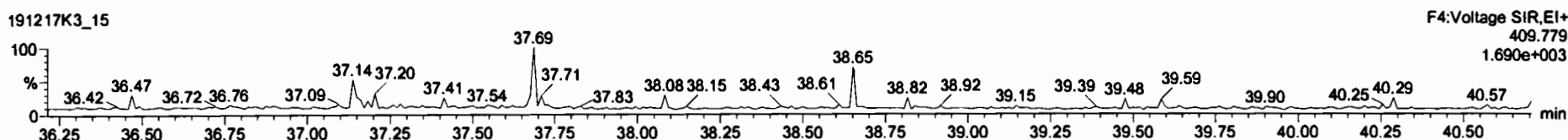
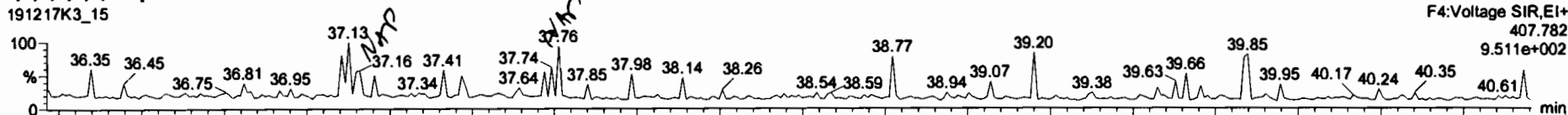


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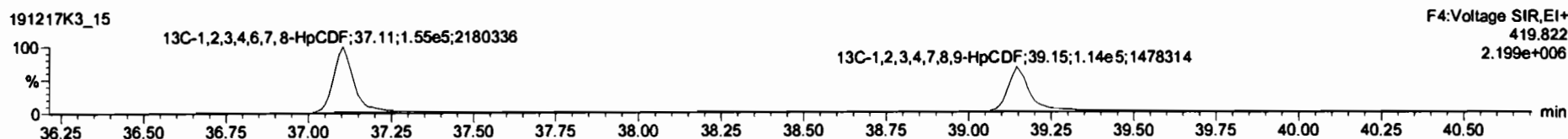
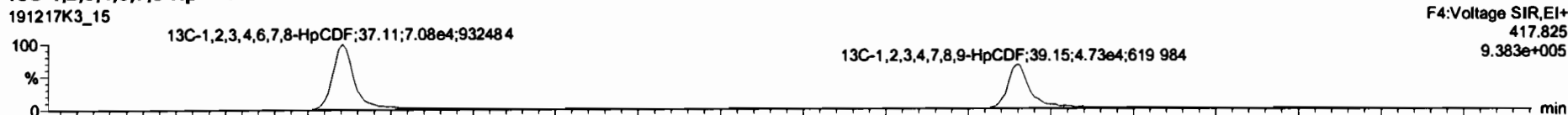
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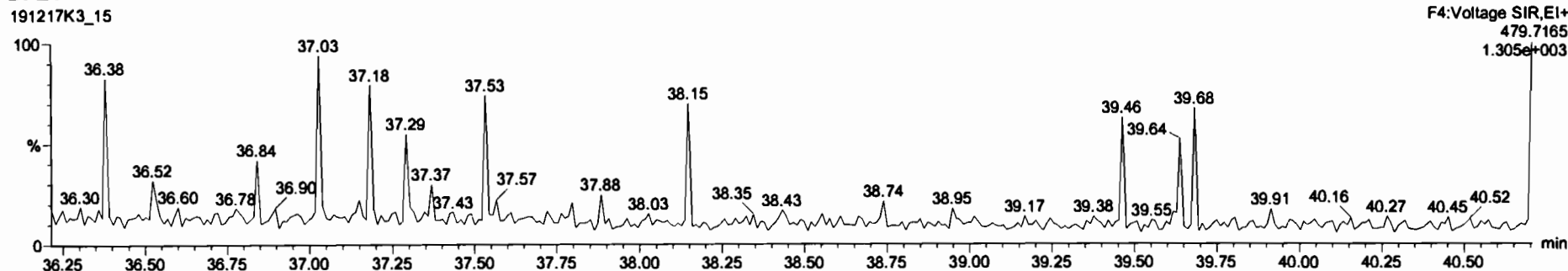
1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF



DPE4

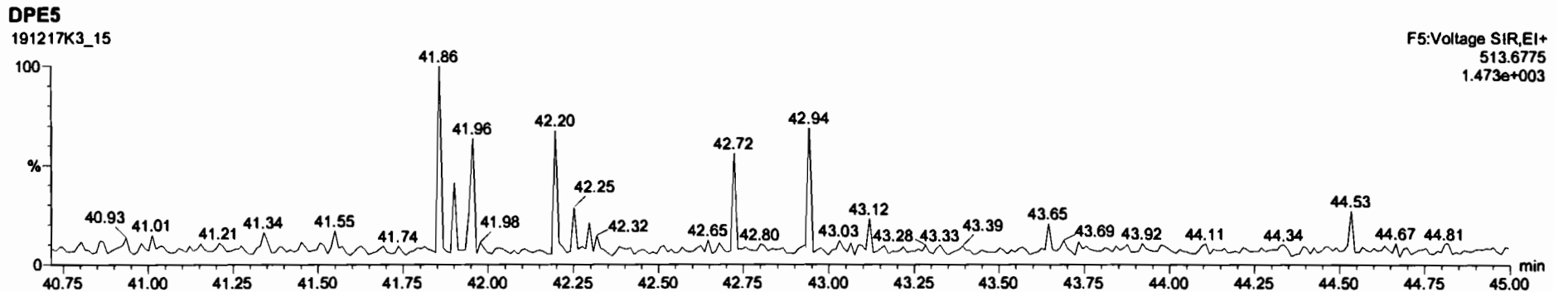
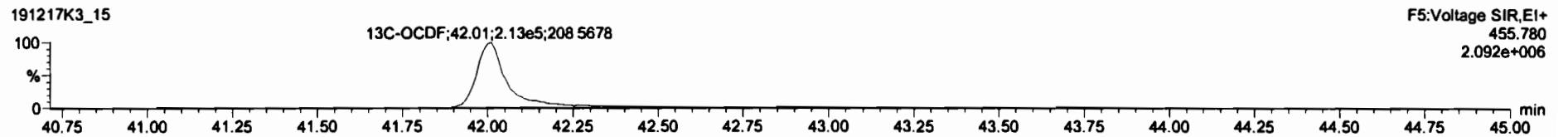
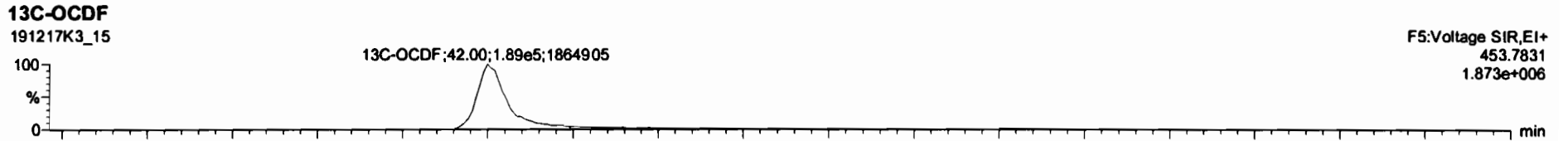
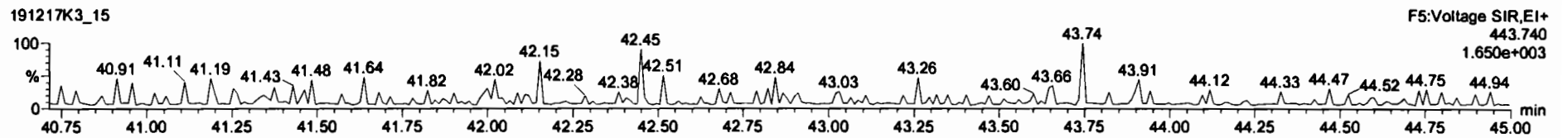
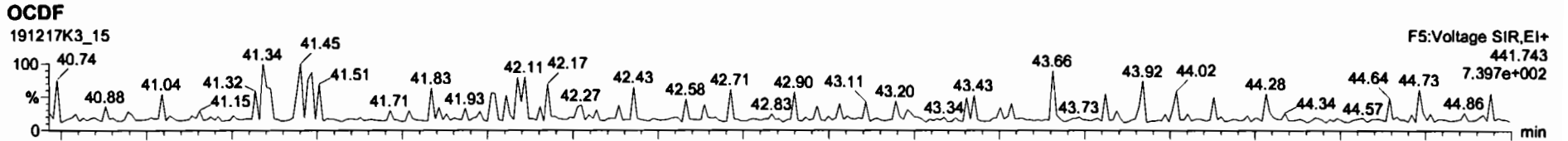


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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

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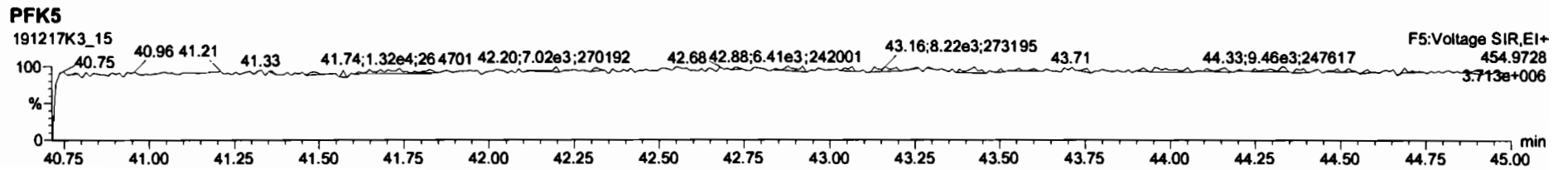
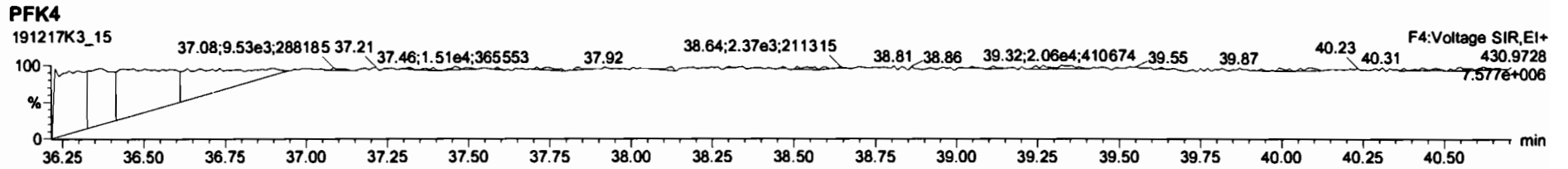
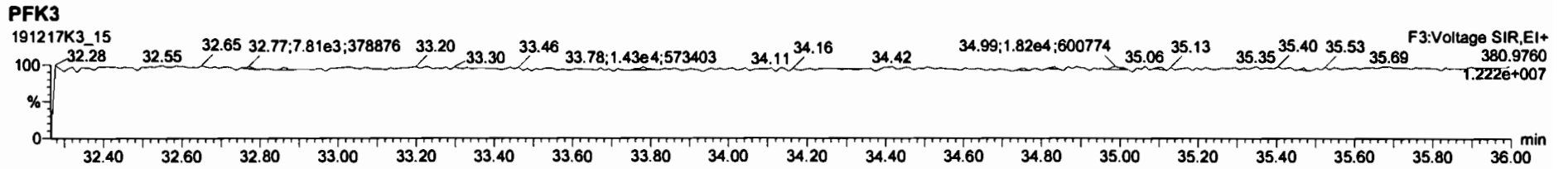
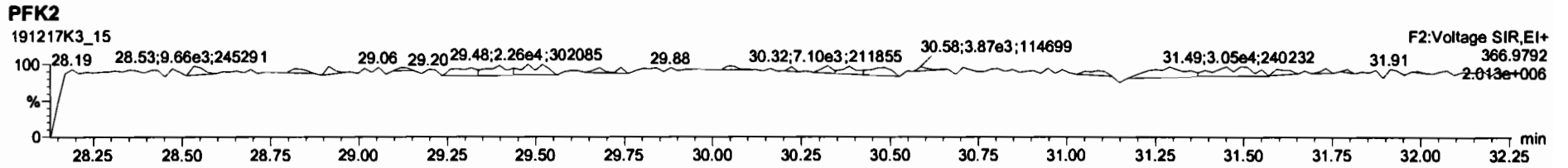
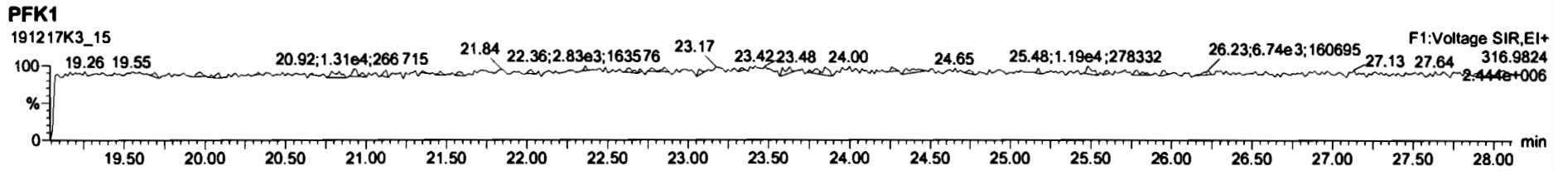


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Name: 191217K3\_15, Date: 18-Dec-2019, Time: 13:23:13, ID: 1903655-14 PDI-067SC-A-13-13.8-191010 14.67, Description: PDI-067SC-A-13-13.8-191010



Client ID: Method Blank  
Lab ID: B9J0251-BLK1

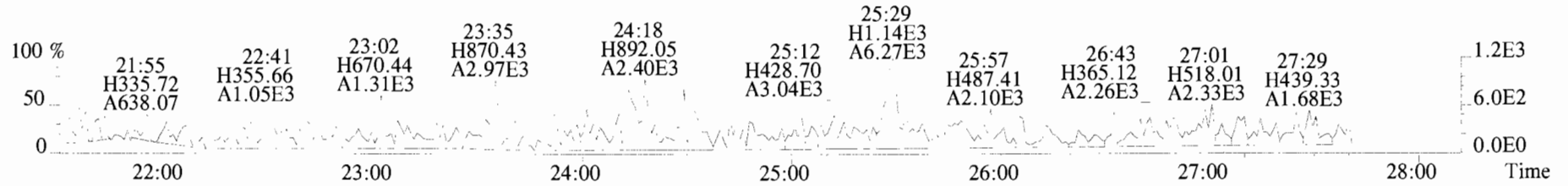
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GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19 wt/vol: 1.000

ConCal: ST191028D1-1  
EndCAL: ST191028D1-2

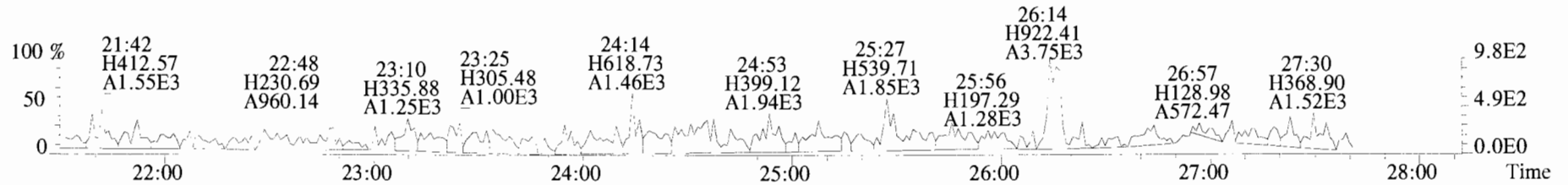
Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	*	* n	0.91	Not F $\eta$	*		105 2.5		0.738	Total Tetra-Dioxins	*	*		105	0.738
1,2,3,7,8-PeCDD	*	* n	0.90	Not F $\eta$	*		158 2.5		0.939	Total Penta-Dioxins	*	*		158	0.939
1,2,3,4,7,8-HxCDD	*	* n	1.10	Not F $\eta$	*		113 2.5		1.05	Total Hexa-Dioxins	*	*		113	1.12
1,2,3,6,7,8-HxCDD	*	* n	0.94	Not F $\eta$	*		113 2.5		1.10	Total Hepta-Dioxins	*	*		127	1.46
1,2,3,7,8,9-HxCDD	*	* n	0.96	Not F $\eta$	*		113 2.5		1.19	Total Tetra-Furans	*	*		139	0.662
1,2,3,4,6,7,8-HpCDD	*	* n	0.98	Not F $\eta$	*		127 2.5		1.46	Total Penta-Furans	0.0000	0.0000		119	0.663
OCDD	*	* n	0.96	Not F $\eta$	*		94.6 2.5		2.68	Total Hexa-Furans	*	*		115	0.505
										Total Hepta-Furans	*	*		92.8	0.610
2,3,7,8-TCDF	*	* n	0.95	Not F $\eta$	*		139 2.5		0.662						
1,2,3,7,8-PeCDF	*	* n	0.96	Not F $\eta$	*		119 2.5		0.684						
2,3,4,7,8-PeCDF	*	* n	1.01	Not F $\eta$	*		119 2.5		0.642						
1,2,3,4,7,8-HxCDF	*	* n	1.18	Not F $\eta$	*		115 2.5		0.456						
1,2,3,6,7,8-HxCDF	*	* n	1.07	Not F $\eta$	*		115 2.5		0.471						
2,3,4,6,7,8-HxCDF	*	* n	1.11	Not F $\eta$	*		115 2.5		0.514						
1,2,3,7,8,9-HxCDF	*	* n	1.06	Not F $\eta$	*		115 2.5		0.590						
1,2,3,4,6,7,8-HpCDF	*	* n	1.13	Not F $\eta$	*		92.8 2.5		0.651						
1,2,3,4,7,8,9-HpCDF	*	* n	1.28	Not F $\eta$	*		92.8 2.5		0.564						
OCDF	*	* n	0.95	Not F $\eta$	*		112 2.5		2.15						
IS	13C-2,3,7,8-TCDD	5.19e+06	0.78 y	1.10	26:15	1806.1				Rec	Qual				
IS	13C-1,2,3,7,8-PeCDD	4.56e+06	0.62 y	0.88	30:45	1973.1				90.3					
IS	13C-1,2,3,4,7,8-HxCDD	4.05e+06	1.27 y	0.64	34:04	1896.1				98.7					
IS	13C-1,2,3,6,7,8-HxCDD	4.58e+06	1.28 y	0.86	34:11	1610.1				94.8					
IS	13C-1,2,3,7,8,9-HxCDD	4.54e+06	1.26 y	0.81	34:28	1692.0				80.5					
IS	13C-1,2,3,4,6,7,8-HpCDD	3.45e+06	1.06 y	0.65	37:57	1583.3				84.6					
IS	13C-OCDD	3.36e+06	0.93 y	0.58	41:16	1739.0				79.2					
IS	13C-2,3,7,8-TCDF	7.93e+06	0.78 y	1.03	25:28	1736.2				43.5					
IS	13C-1,2,3,7,8-PeCDF	6.96e+06	1.58 y	0.85	29:34	1846.7				86.8					
IS	13C-2,3,4,7,8-PeCDF	6.77e+06	1.59 y	0.85	30:28	1810.0				92.3					
IS	13C-1,2,3,4,7,8-HxCDF	5.45e+06	0.51 y	0.83	33:10	1970.1				90.5					
IS	13C-1,2,3,6,7,8-HxCDF	6.23e+06	0.52 y	1.03	33:18	1809.5				98.5					
IS	13C-2,3,4,6,7,8-HxCDF	5.75e+06	0.52 y	0.95	33:54	1811.8				90.5					
IS	13C-1,2,3,7,8,9-HxCDF	5.27e+06	0.50 y	0.83	34:51	1911.9				90.6					
IS	13C-1,2,3,4,6,7,8-HpCDF	4.33e+06	0.43 y	0.76	36:43	1715.6				95.6					
IS	13C-1,2,3,4,7,8,9-HpCDF	3.58e+06	0.44 y	0.58	38:30	1850.6				85.8					
IS	13C-OCDF	4.94e+06	0.91 y	0.69	41:30	2156.2				92.5					
C/Up	37C1-2,3,7,8-TCDD	2.42e+06		1.20	26:16	768.67				53.9					
RS/RT	13C-1,2,3,4-TCDD	5.25e+06	0.78 y	1.00	25:41	2000.0									
RS	13C-1,2,3,4-TCDF	8.83e+06	0.84 y	1.00	24:16	2000.0									
RS/RT	13C-1,2,3,4,6,9-HxCDF	6.66e+06	0.50 y	1.00	33:35	2000.0									

Integrations  
by DB  
Analyst: DB  
Date: 10/29/19  
Reviewed  
by CT  
Analyst: CT  
Date: 10/29/19

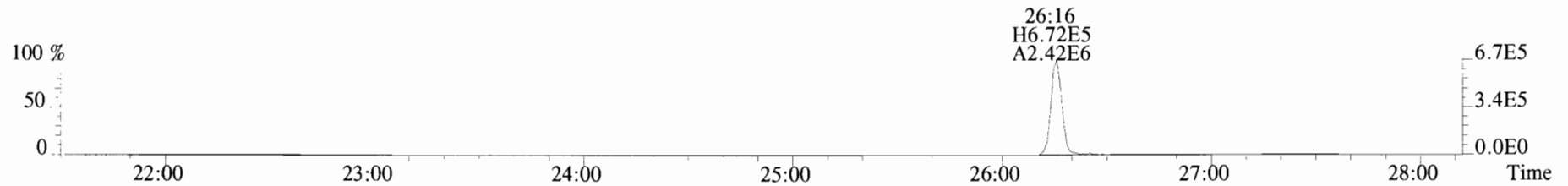
File:191028D1 #1-493 Acq:28-OCT-2019 17:01:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9J0251-BLK1 Method Blank 1 Exp:OCDD\_DB5  
319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



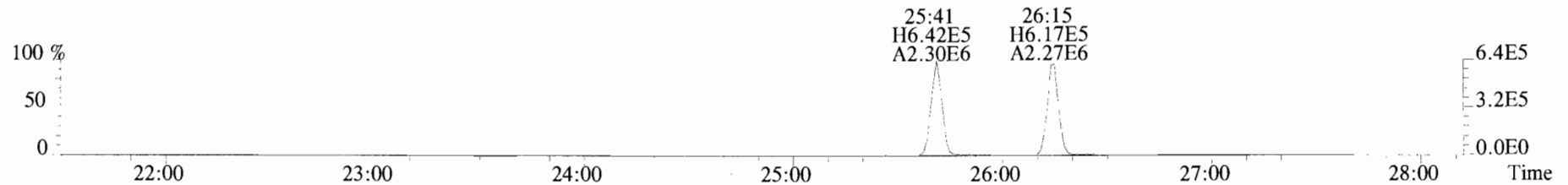
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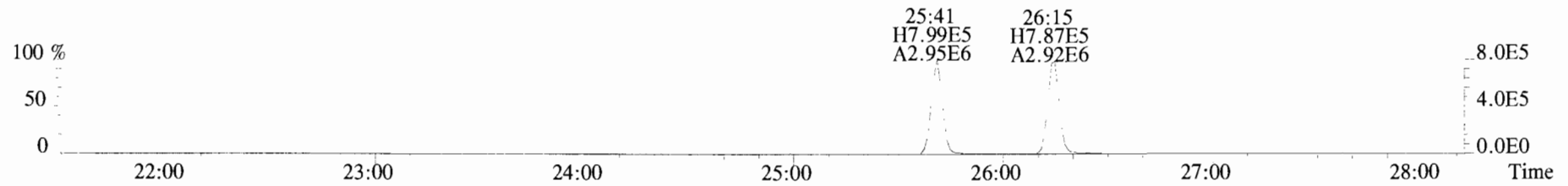
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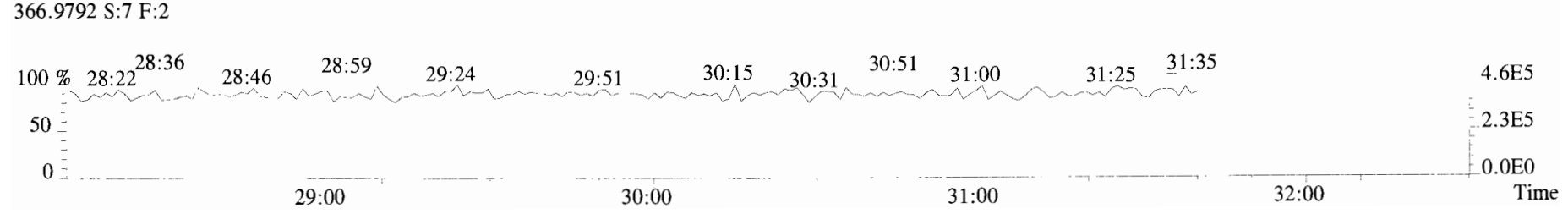
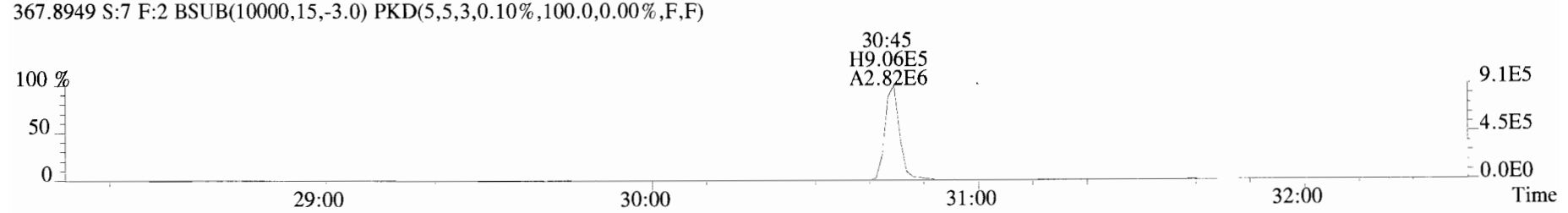
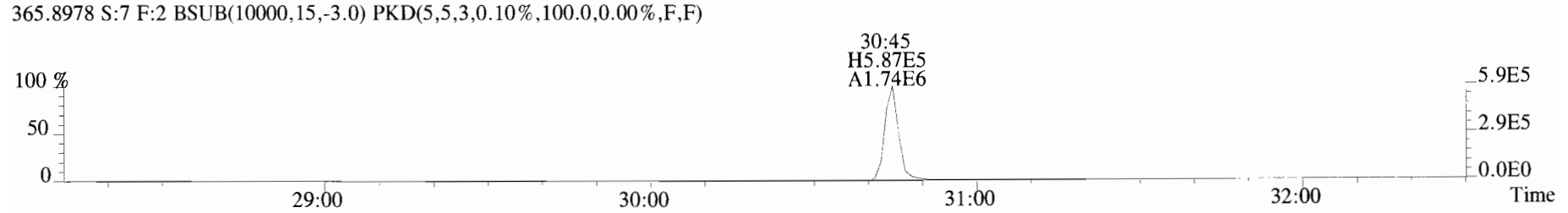
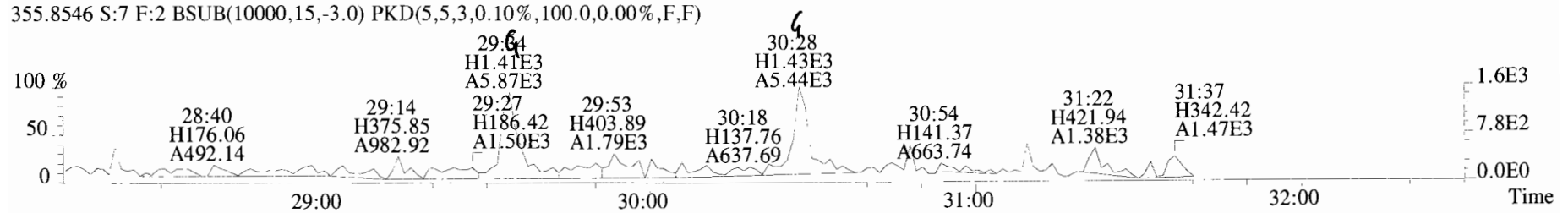
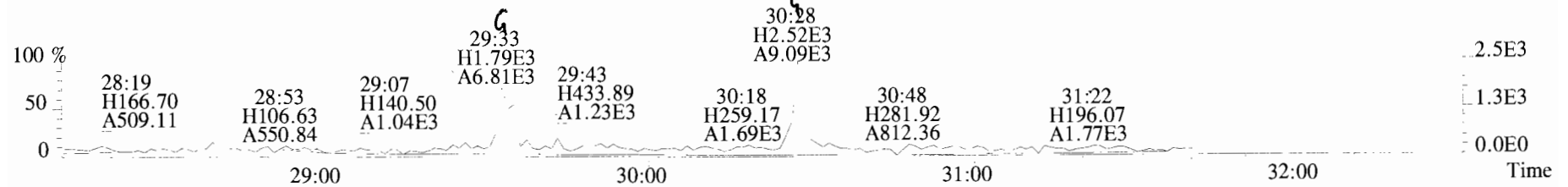
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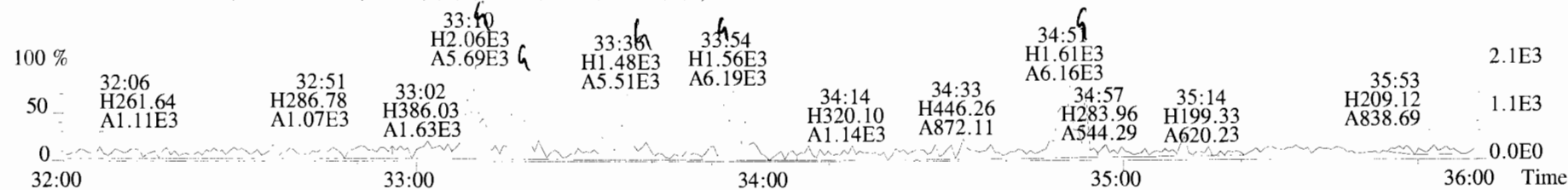
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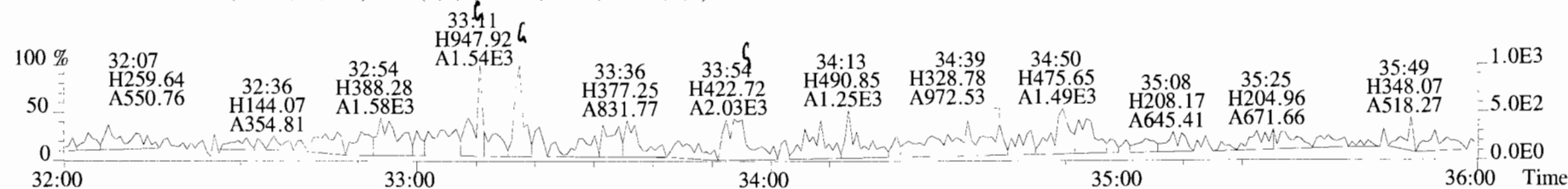
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 Sample#7 File Text:Viata Analytical Laboratory\_VG7 Text:B9J0251-BLK1 Method Blank 1 Exp:OCDD\_DB5  
 353.8576 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



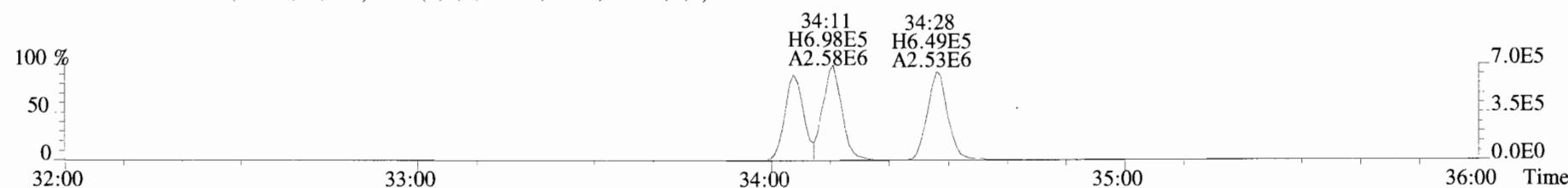
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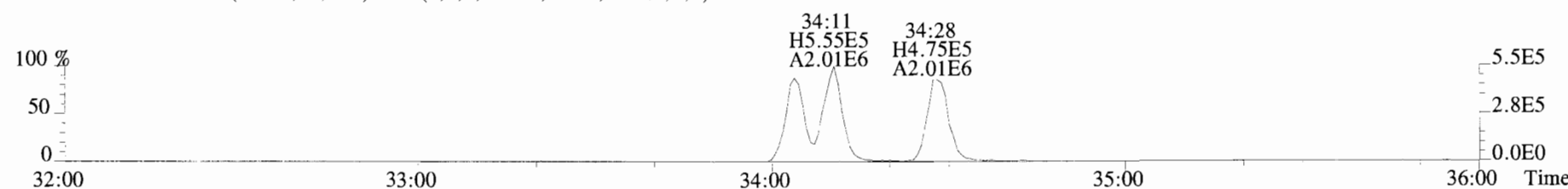
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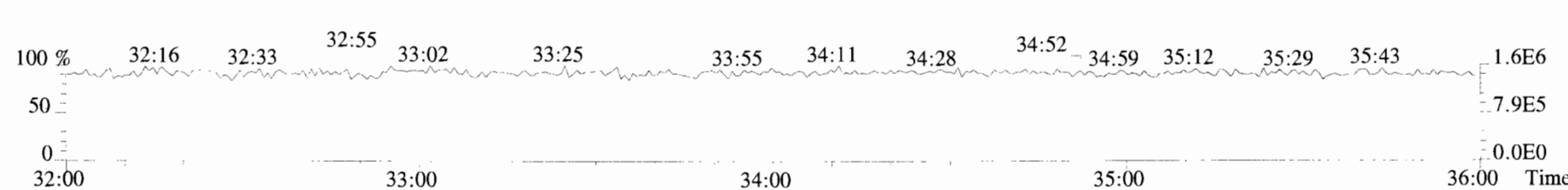
401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



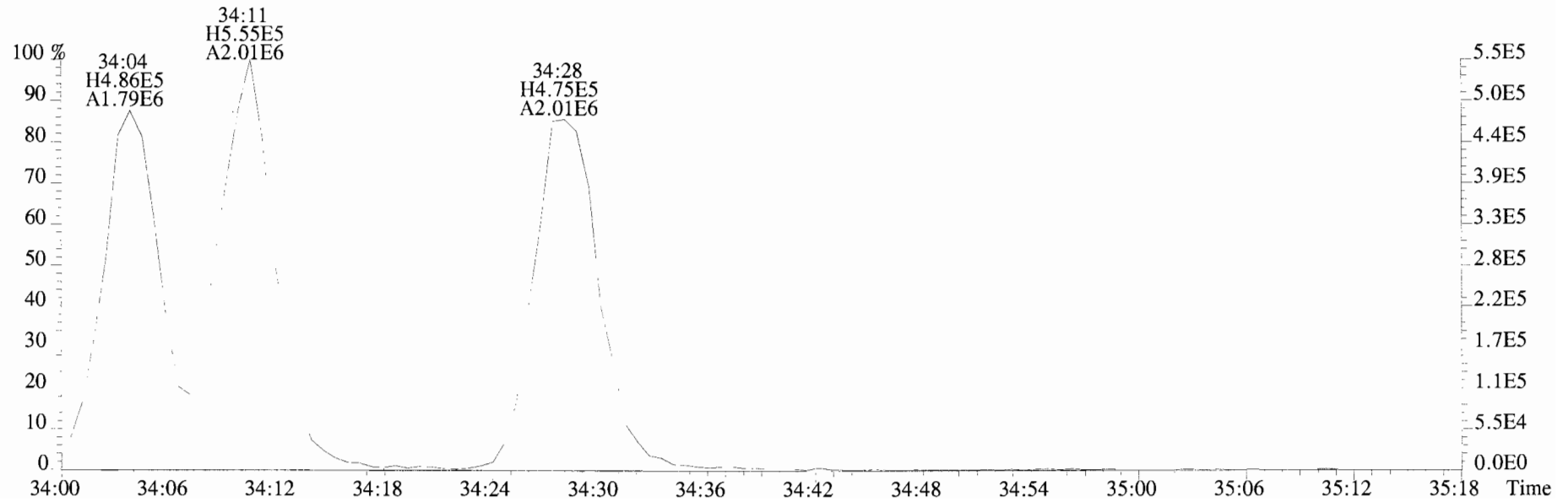
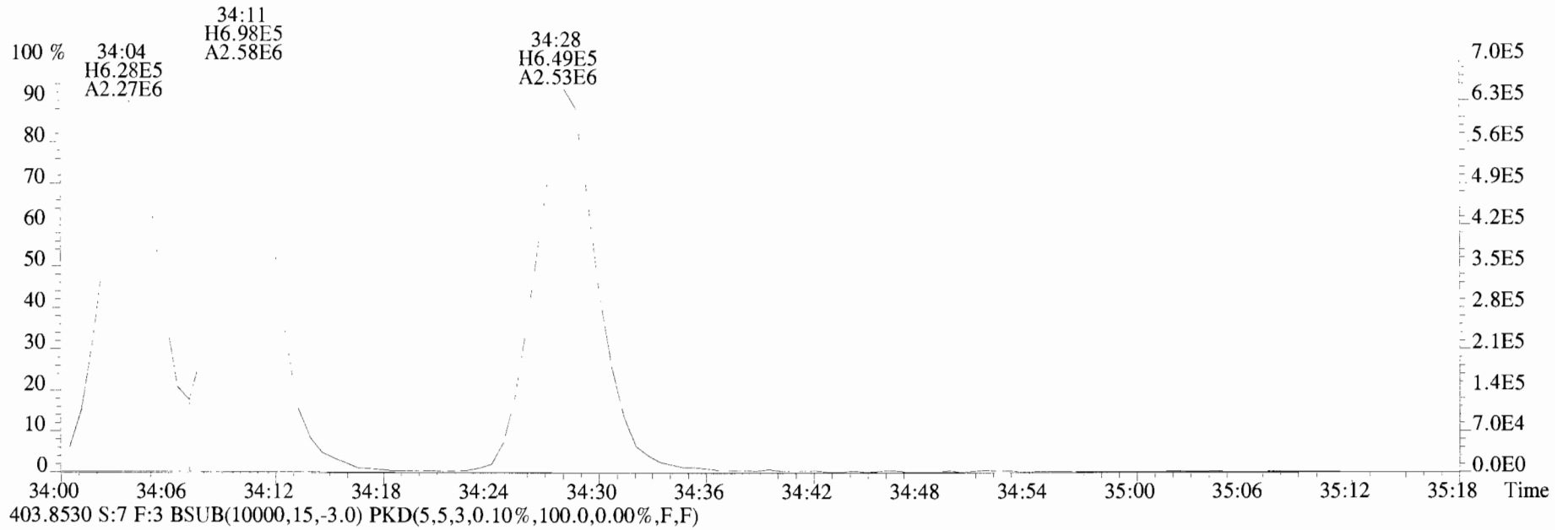
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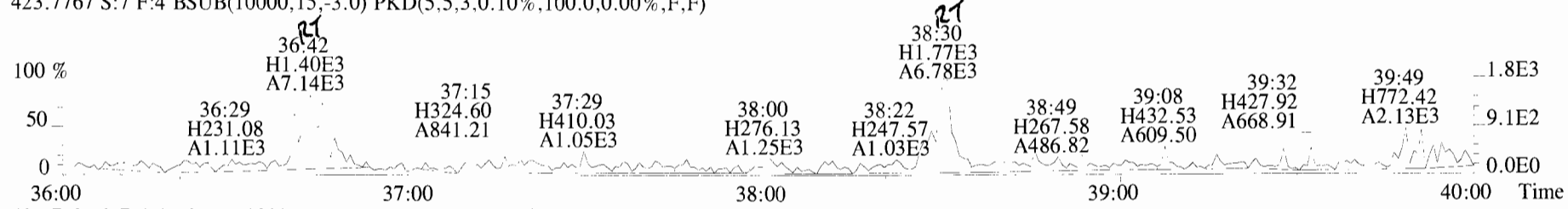
392.9760 S:7 F:3



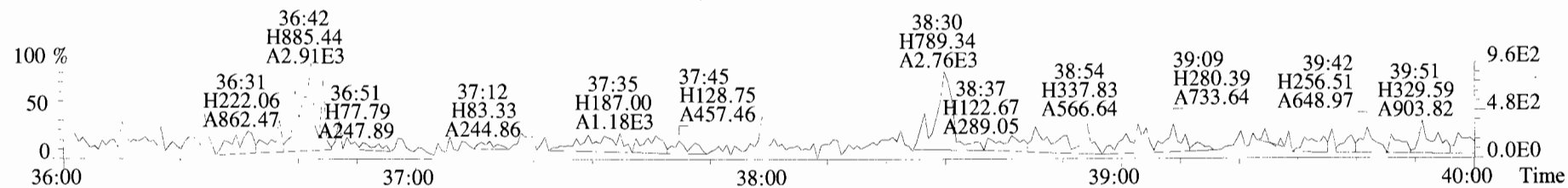
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Sample#7 File Text:Viata Analytical Laboratory\_VG7 Text:B9J0251-BLK1 Method Blank 1 Exp:OCDD\_DB5  
401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



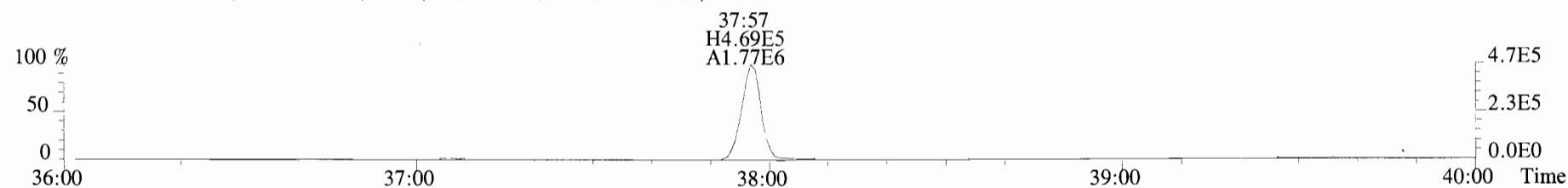
File:191028D1 #1-356 Acq:28-OCT-2019 17:01:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Viata Analytical Laboratory\_VG7 Text:B9J0251-BLK1 Method Blank 1 Exp:OCDD\_DB5  
423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



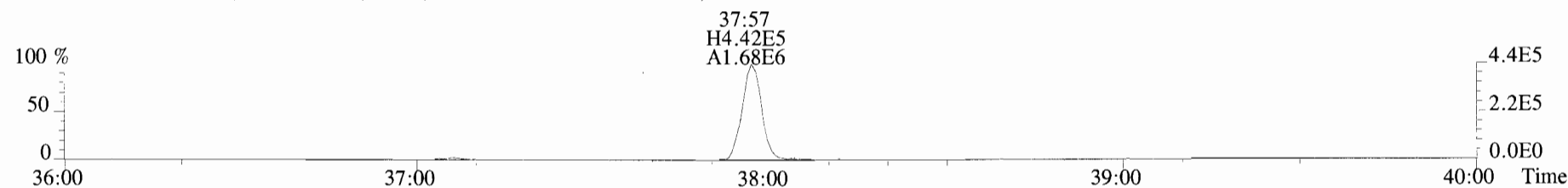
425.7737 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



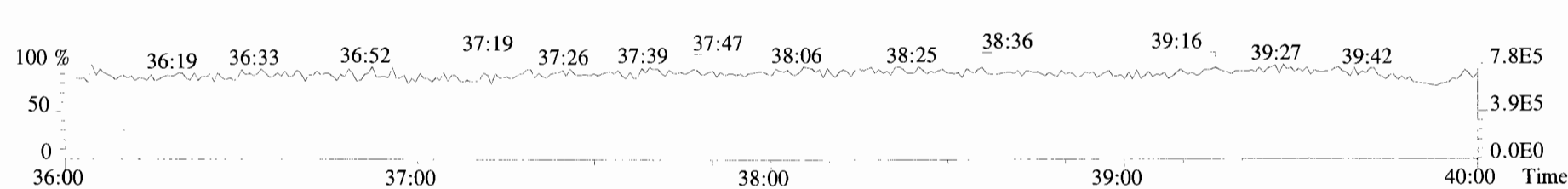
435.8169 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



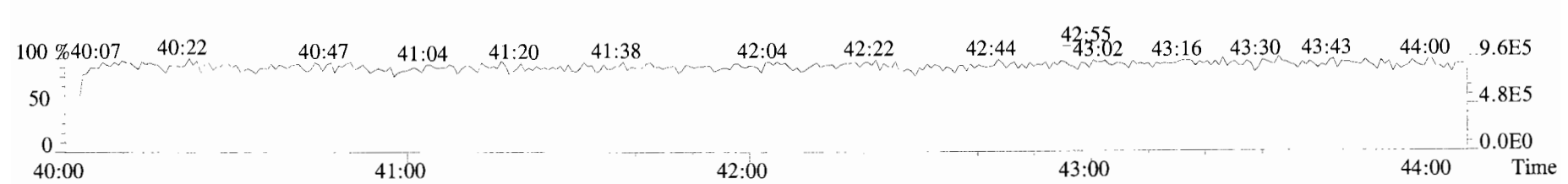
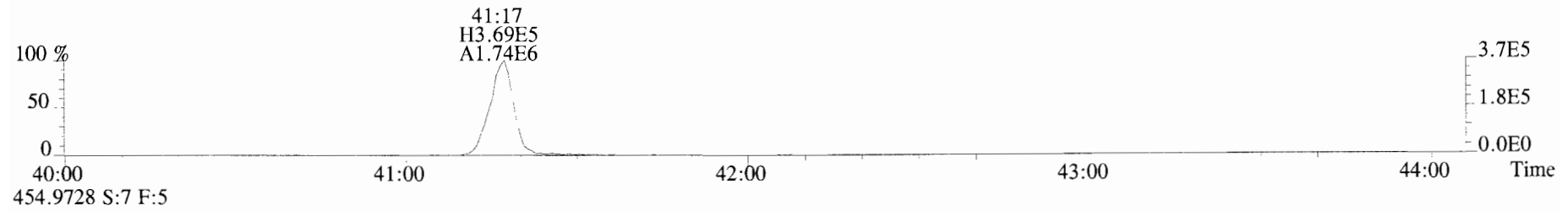
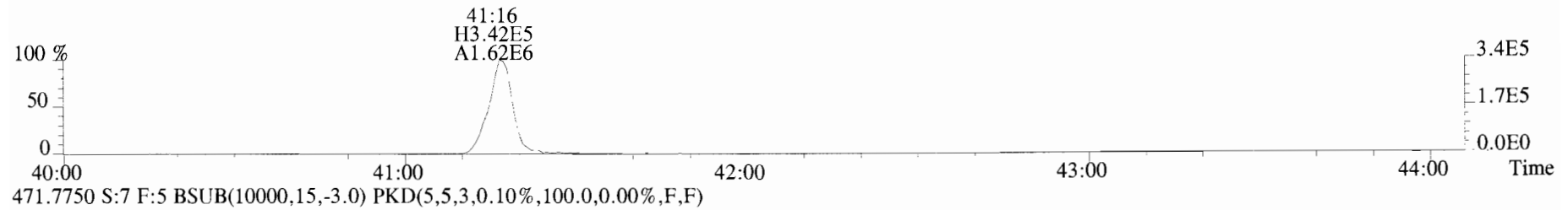
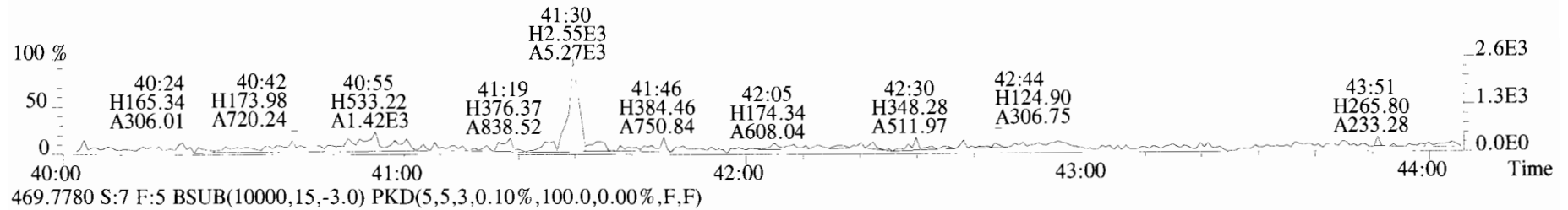
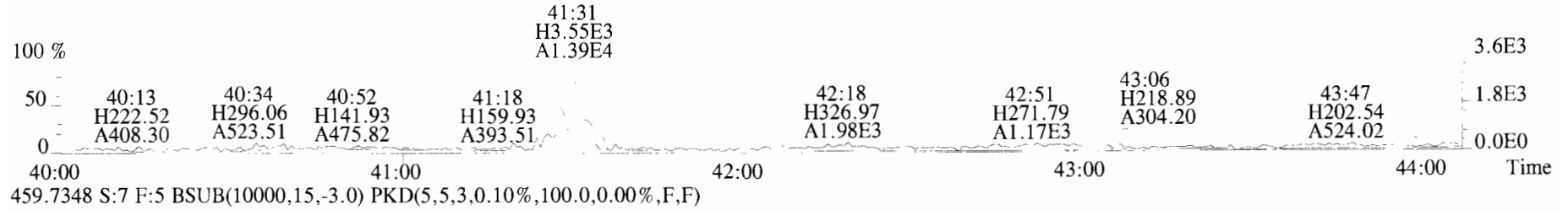
437.8140 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



454.9728 S:7 F:4

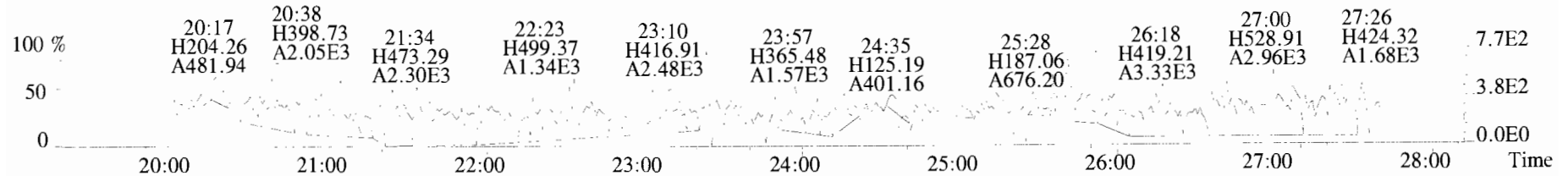


File:191028D1 #1-431 Acq:28-OCT-2019 17:01:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9J0251-BLK1 Method Blank 1 Exp:OCDD\_DB5  
457.7377 S:7 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

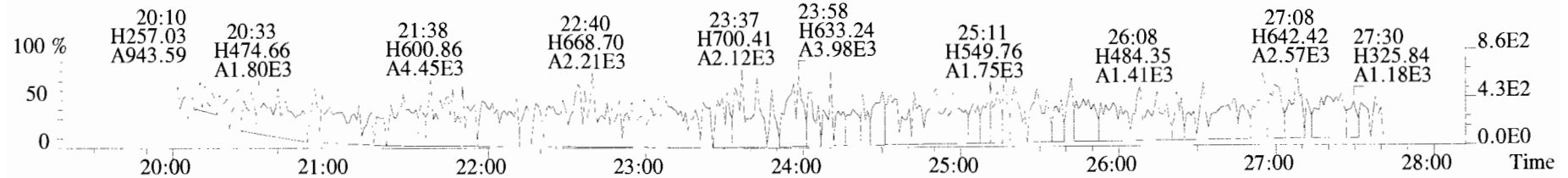




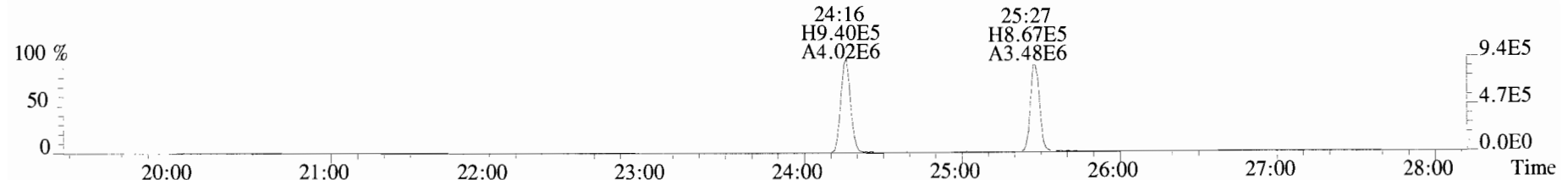
File:191028D1 #1-493 Acq:28-OCT-2019 17:01:01 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#7 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9J0251-BLK1 Method Blank 1 Exp:OCDD\_DB5  
 303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



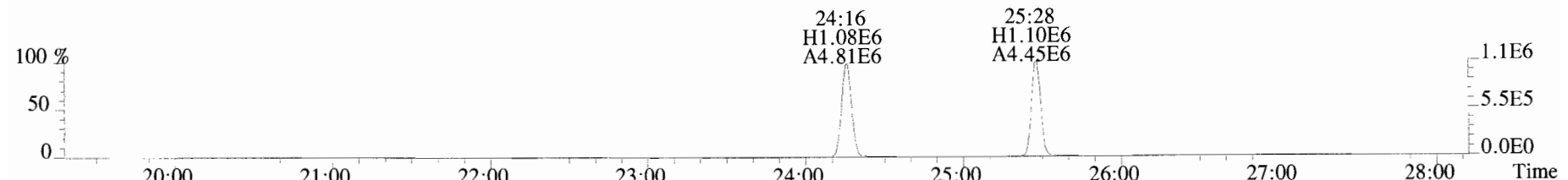
305.8987 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



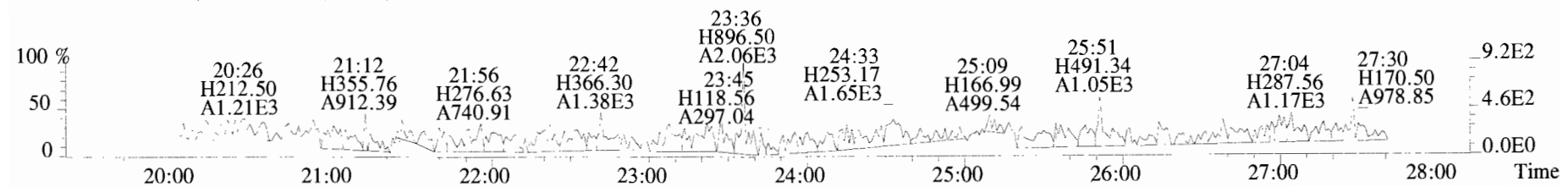
315.9419 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



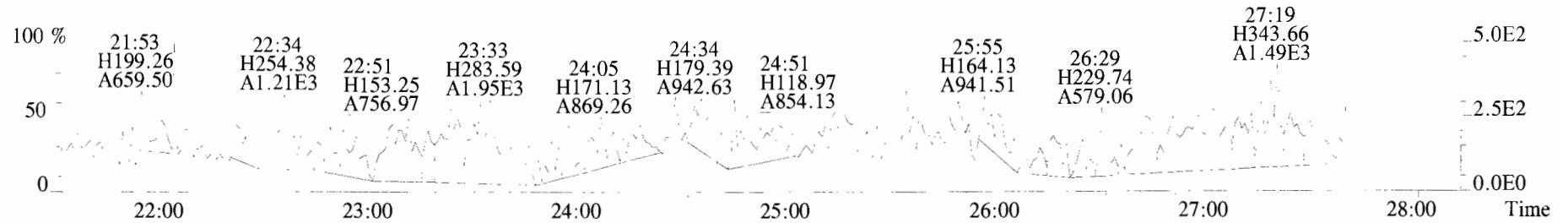
317.9389 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



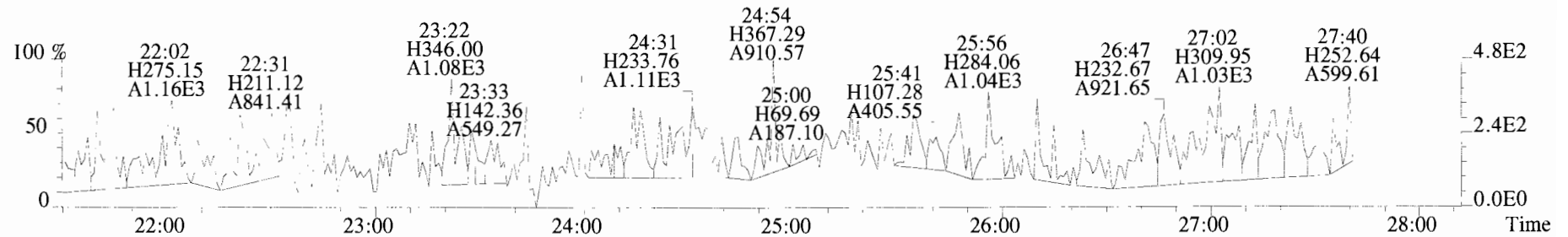
375.8364 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



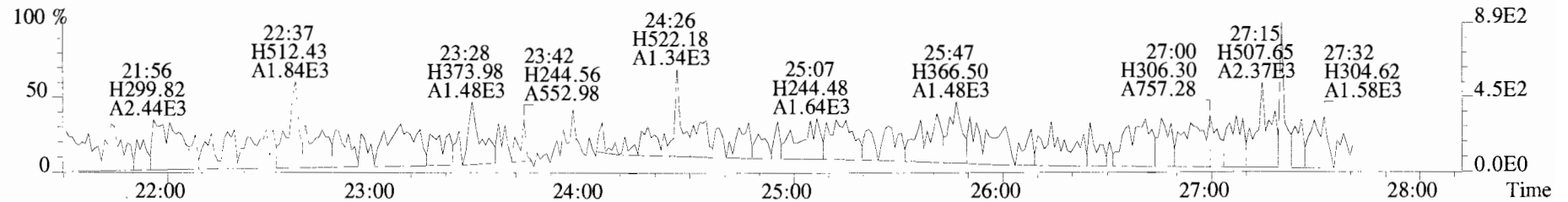
File:191028D1 #1-493 Acq:28-OCT-2019 17:01:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Viata Analytical Laboratory VG7 Text:B9J0251-BLK1 Method Blank 1 Exp:OCDD\_DB5  
339.8597 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



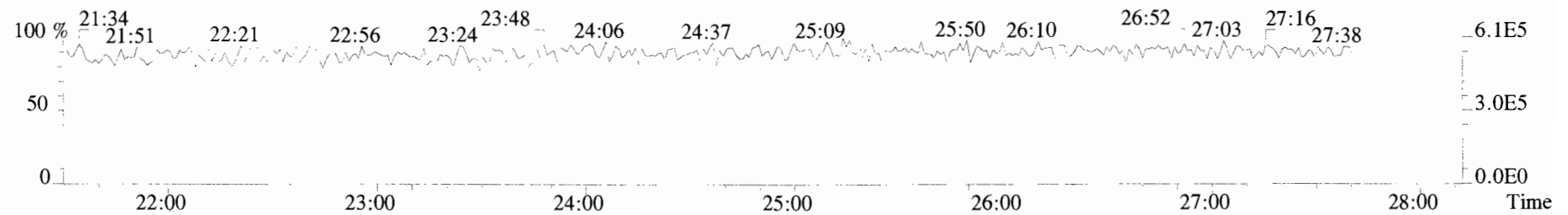
341.8568 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



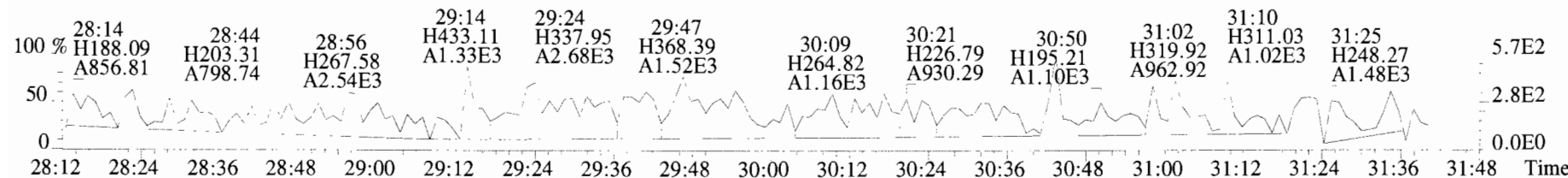
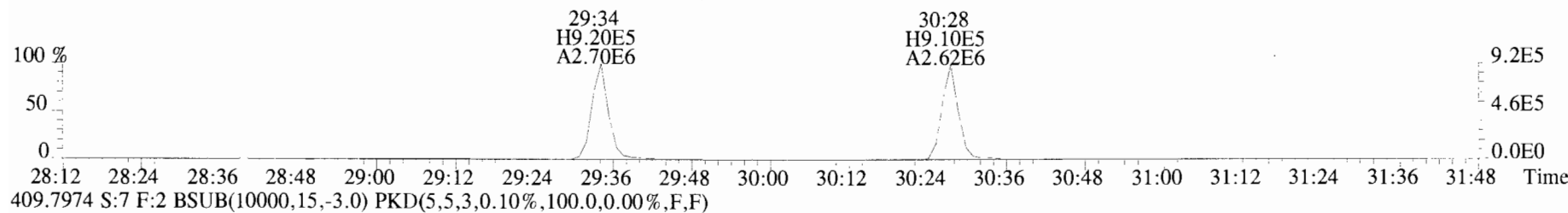
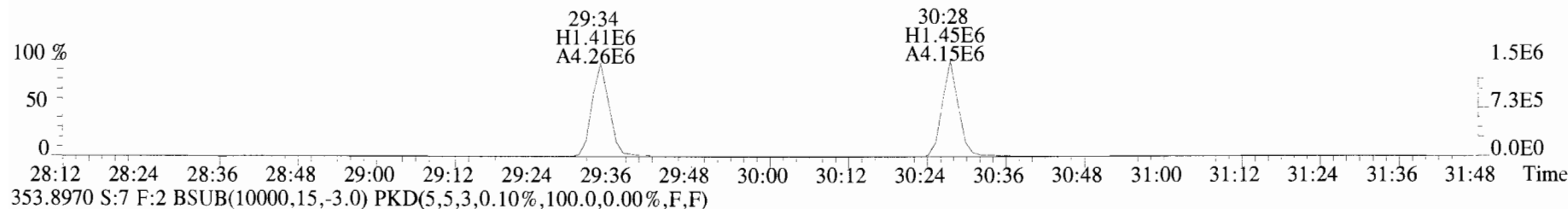
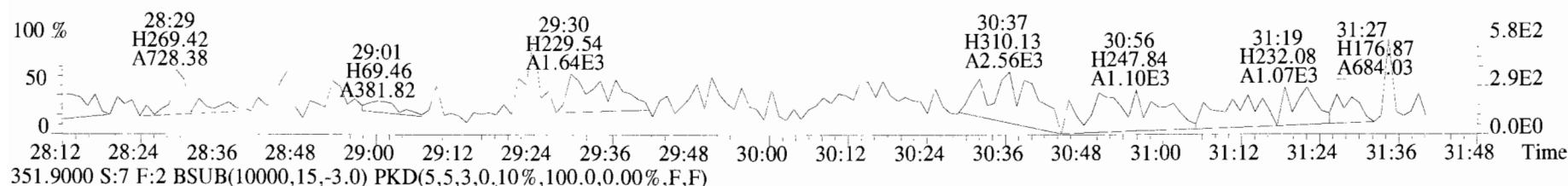
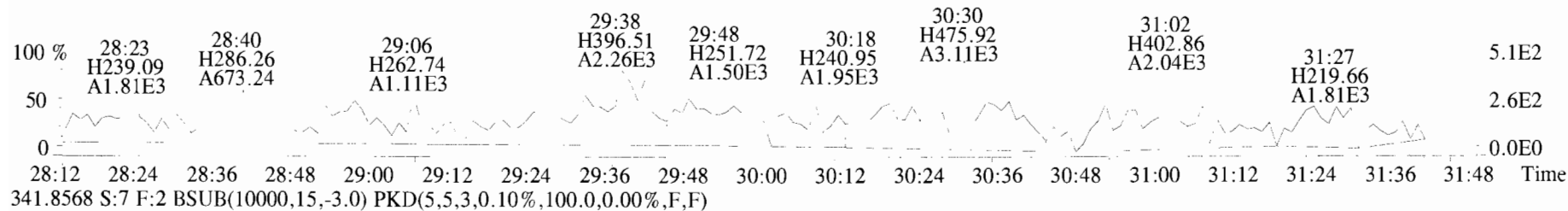
409.7974 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



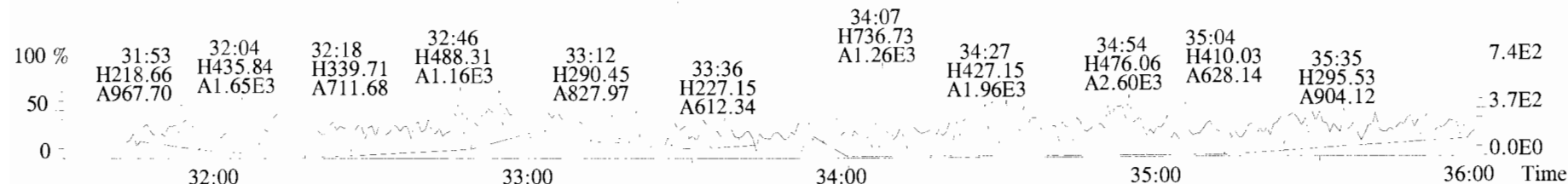
316.9824 S:7



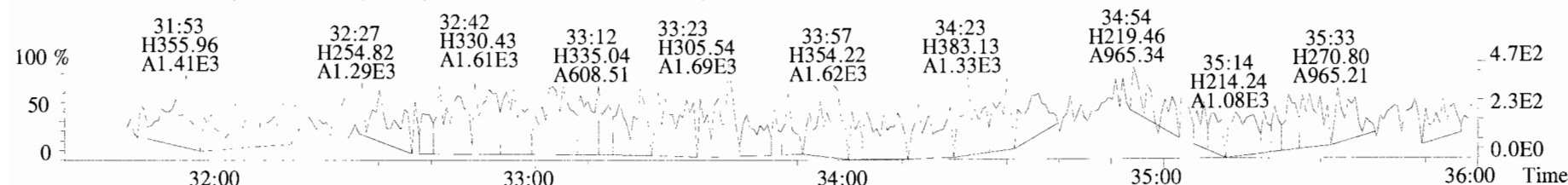
File: 191028D1 #1-210 Acq: 28-OCT-2019 17:01:01 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#7 File Text: Viata\_Analytical\_Laboratory\_VG7 Text: B9J0251-BLK1 Method Blank 1 Exp: OCDD\_DB5  
 339.8597 S: 7 F: 2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



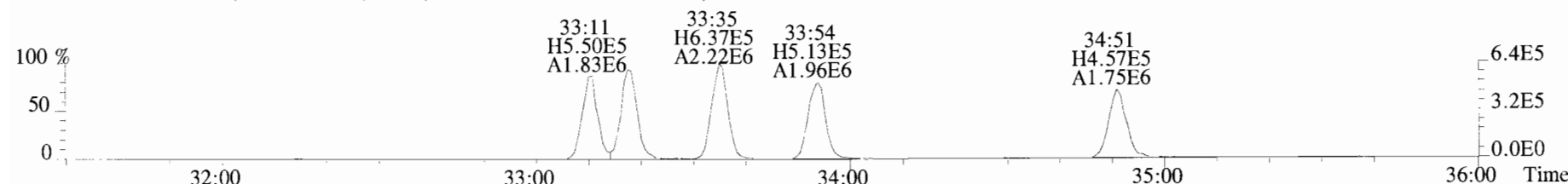
File:191028D1 #1-385 Acq:28-OCT-2019 17:01:01 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#7 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9J0251-BLK1 Method Blank 1 Exp:OCDD\_DB5  
 373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



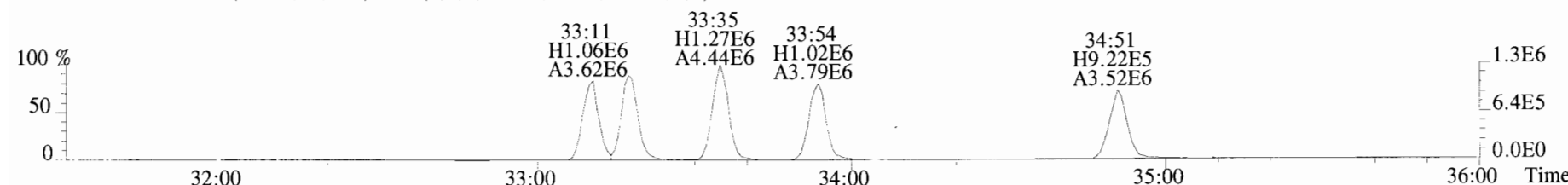
375.8178 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



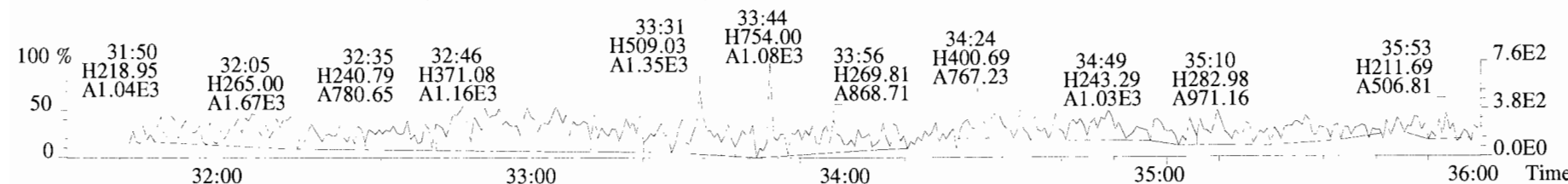
383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



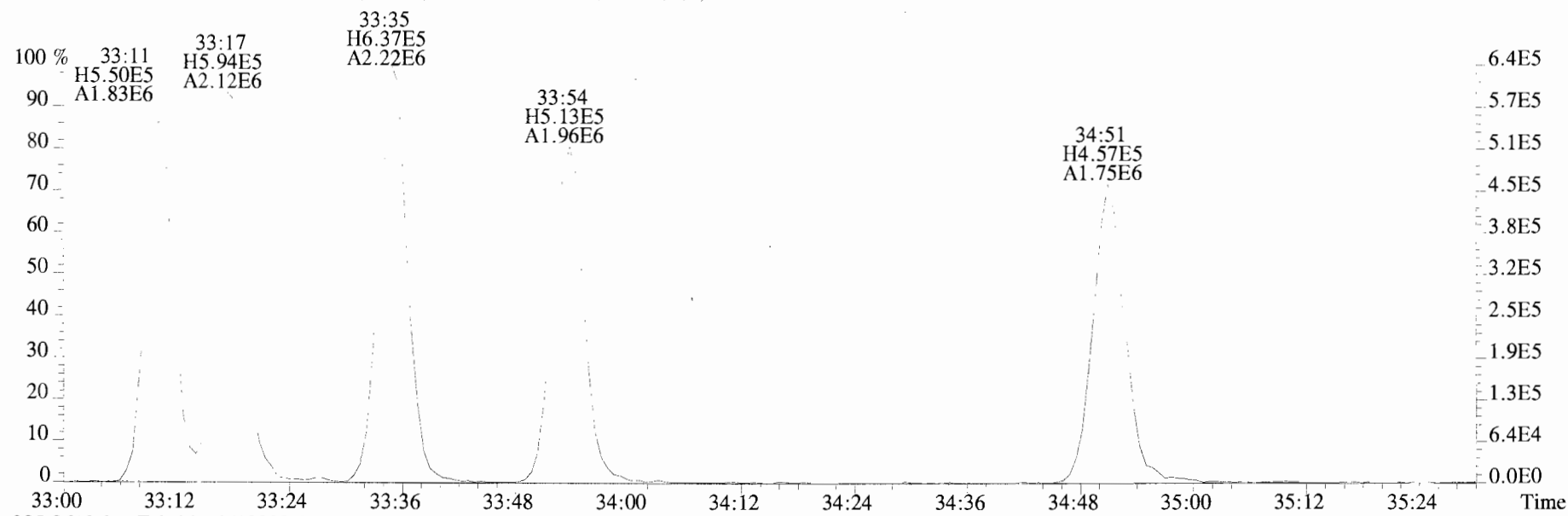
385.8610 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



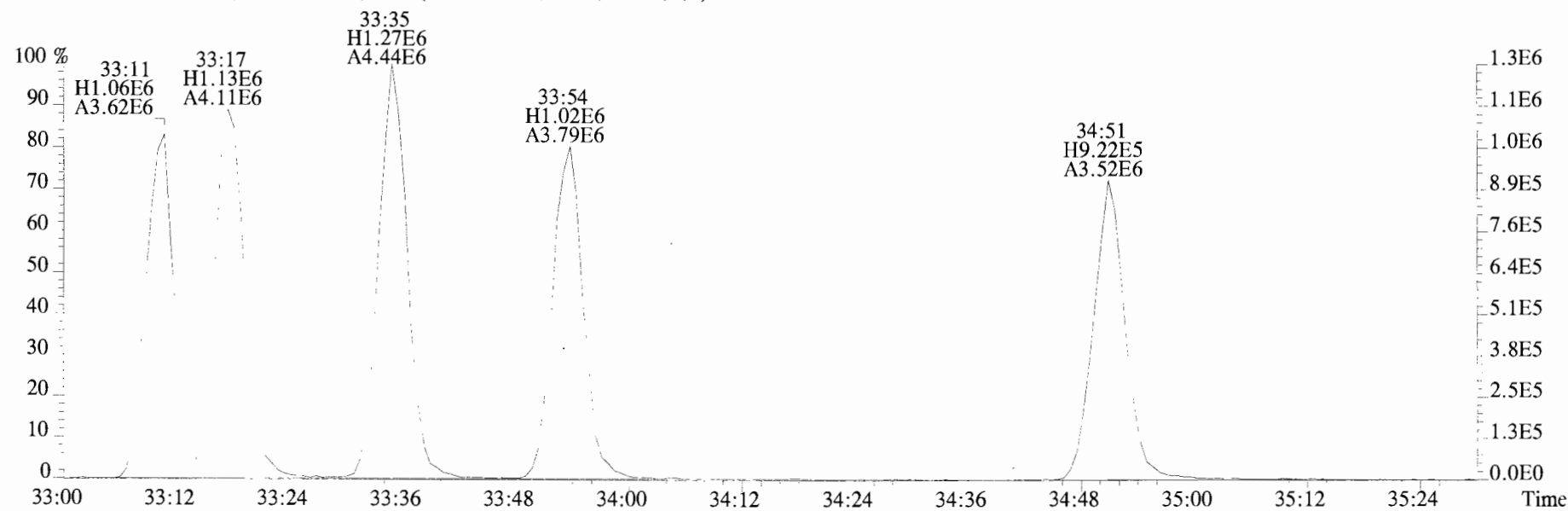
445.7555 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



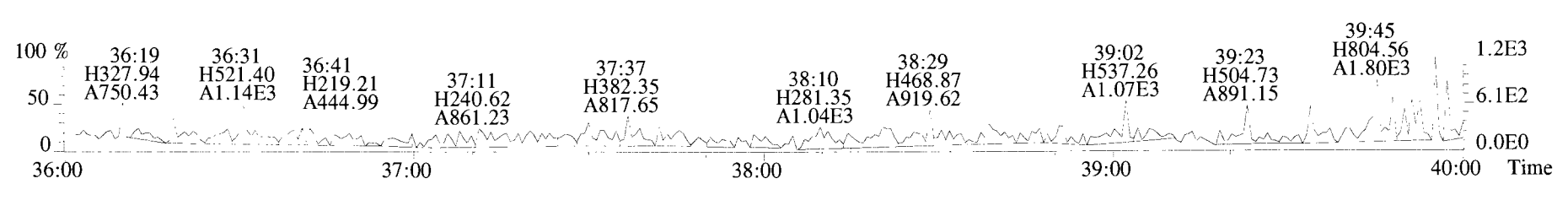
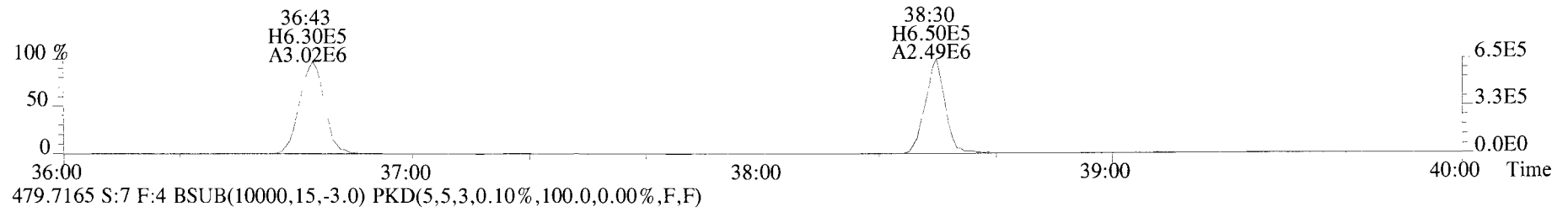
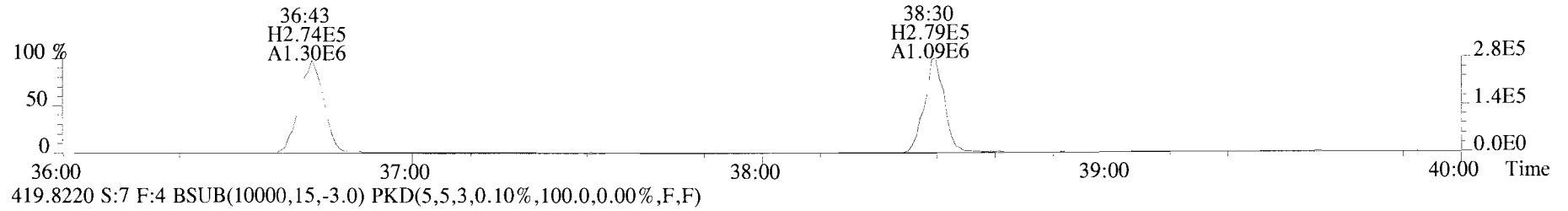
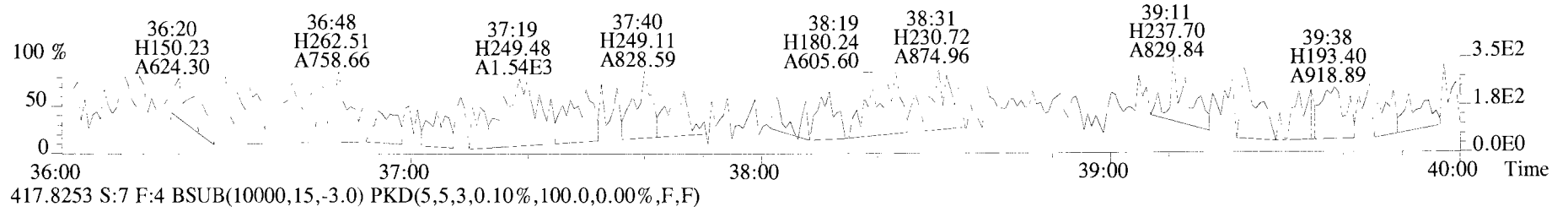
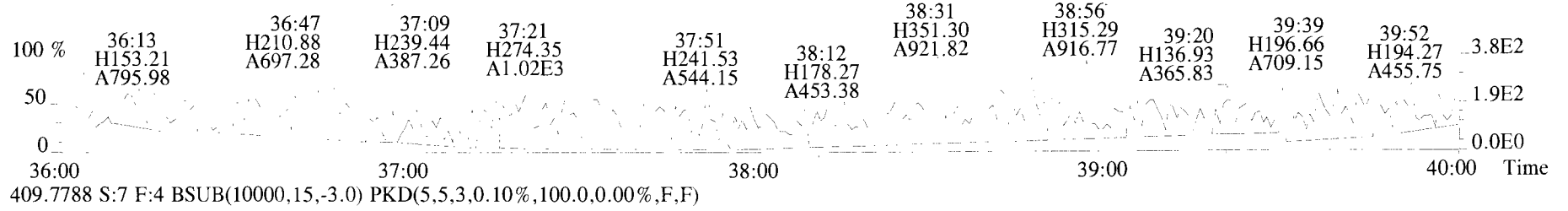
File:191028D1 #1-385 Acq:28-OCT-2019 17:01:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Viata Analytical Laboratory VG7 Text:B9J0251-BLK1 Method Blank 1 Exp:OCDD\_DB5  
383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



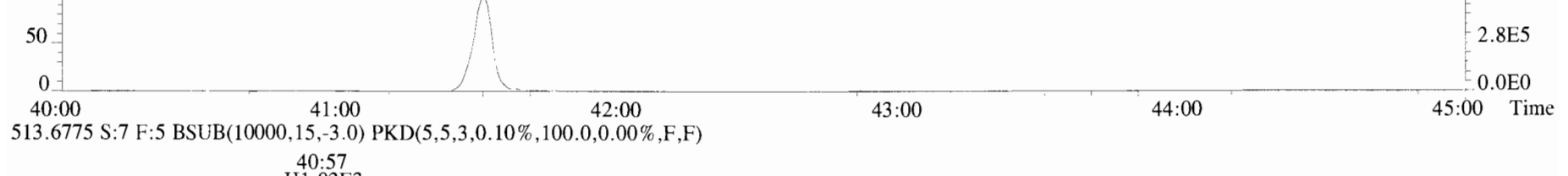
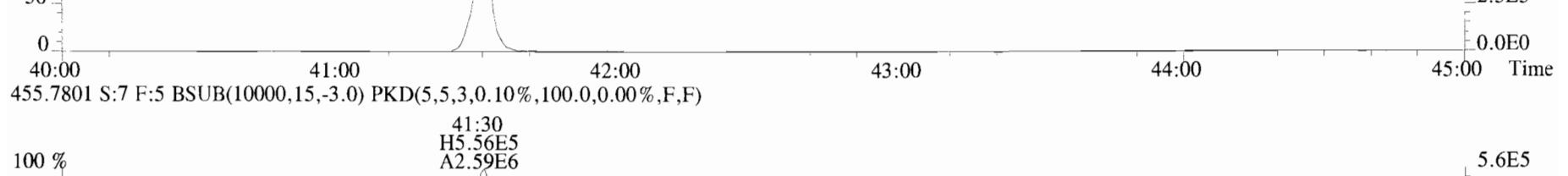
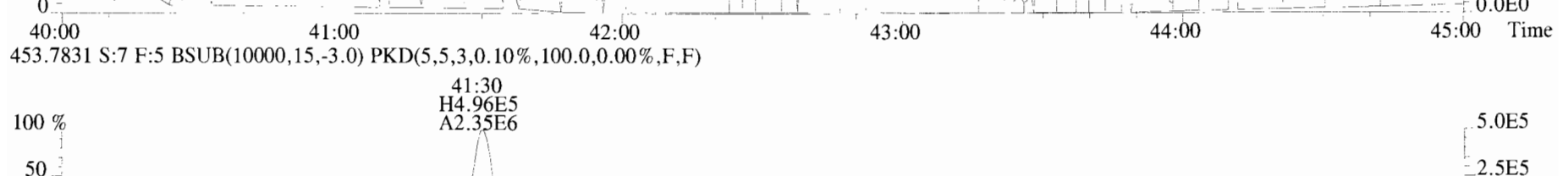
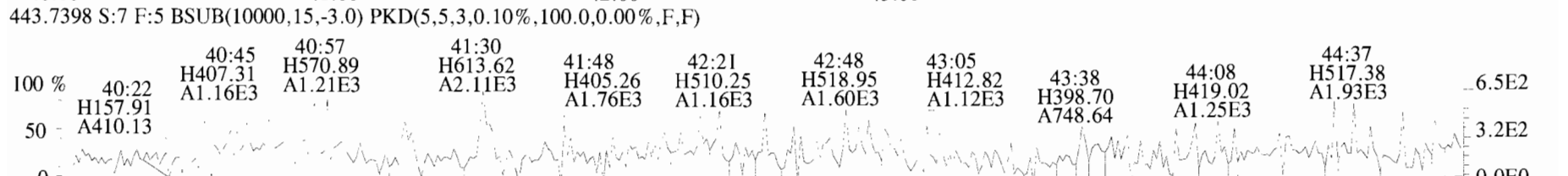
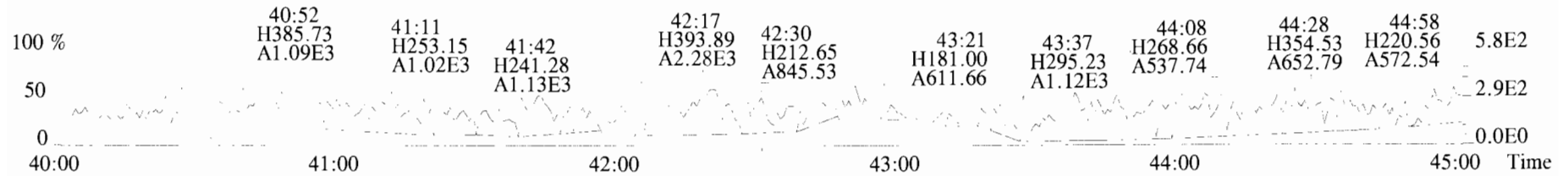
385.8610 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191028D1 #1-356 Acq:28-OCT-2019 17:01:01 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#7 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9J0251-BLK1 Method Blank 1 Exp:OCDD\_DB5  
 407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191028D1 #1-431 Acq:28-OCT-2019 17:01:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9J0251-BLK1 Method Blank 1 Exp:OCDD\_DB5  
441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



FORM 8A  
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory      Extraction Batch: B9J0251 BS1

Contract No.:                      SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS    OPR Data Filename: 191028D1-4

Ext. Date:                      Shift: Day    Analysis Date: 28-OCT-19    Time: 14:37:14

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

NATIVE ANALYTES	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
2,3,7,8-TCDD	10	11.4	6.7 - 15.8 7.3 - 14.6 (2)
1,2,3,7,8-PeCDD	50	52.7	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	52.9	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	55.0	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	52.7	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	52.8	35.0 - 70.0
OCDD	100	108	78.0 - 144.0
2,3,7,8-TCDF	10	10.5	7.5 - 15.8 8.0 - 14.7 (2)
1,2,3,7,8-PeCDF	50	54.1	40.0 - 67.0
2,3,4,7,8-PeCDF	50	52.2	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	52.2	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	52.1	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	54.8	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	52.6	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	51.3	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	50.5	39.0 - 69.0
OCDF	100	107	63.0 - 170.0

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

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

Analyst: DB

Date: 10/29/19



FORM 8B  
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory      Extraction Batch: B9J0251-BS1

Contract No.:                      SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS      OPR Data Filename: 191028D1-4

Ext. Date:                      Shift: Day      Analysis Date: 28-OCT-19      Time: 14:37:14

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

LABELED COMPOUNDS	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
13C-2,3,7,8-TCDD	100	97.1	20.0 - 175.0 25.0 - 141.0 (2)
13C-1,2,3,7,8-PeCDD	100	102	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	92.4	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	80.7	25.0 - 163.0
13C-1,2,3,7,8,9-HxCDD	100	85.1	21.0 - 193.0
13C-1,2,3,4,6,7,8-HpCDD	100	89.3	26.0 - 166.0
13C-OCDD	200	143	26.0 - 397.0
13C-2,3,7,8-TCDF	100	94.2	22.0 - 152.0 26.0 - 126.0 (2)
13C-1,2,3,7,8-PeCDF	100	92.8	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	97.3	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	96.3	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	92.3	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	90.7	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	92.8	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	96.1	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	98.6	20.0 - 186.0
13C-OCDF	200	176	26.0 - 397.0
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	41.0	12.4 - 76.4

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

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

Analyst: DB

Date: 10/29/19

Client ID: OPR  
Lab ID: B9J0251-BS1

Filename: 191028D1 S:4 Acq:28-OCT-19 14:37:14  
GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19 wt/vol: 1.000

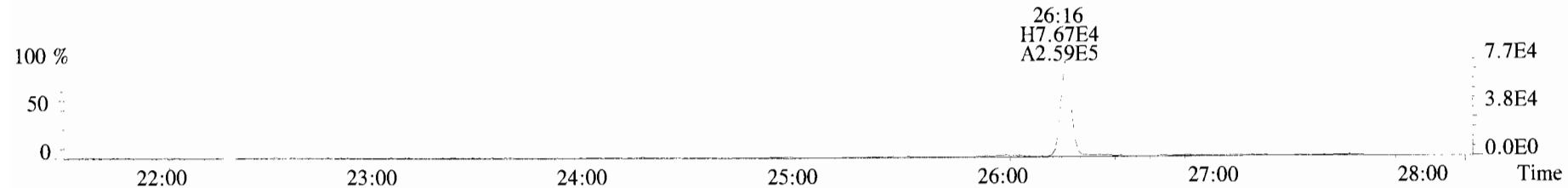
ConCal: ST191028D1 1  
EndCAL: ST191028D1 2

Page 4 of 4

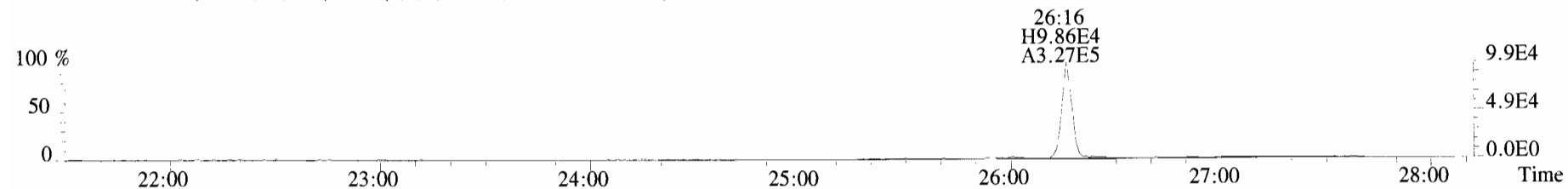
Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	5.86e+05	0.79 y	0.91	26:16	11.374		* 2.5		*	Total Tetra-Dioxins	11.7	13.4		*	*
1,2,3,7,8-PeCDD	2.28e+06	0.62 y	0.90	30:46	52.668		* 2.5		*	Total Penta-Dioxins	52.9	53.3		*	*
1,2,3,4,7,8-HxCDD	2.42e+06	1.27 y	1.10	34:05	52.905		* 2.5		*	Total Hexa-Dioxins	161	162		*	*
1,2,3,6,7,8-HxCDD	2.49e+06	1.18 y	0.94	34:12	54.974		* 2.5		*	Total Hepta-Dioxins	54.6	55.9		*	*
1,2,3,7,8,9-HxCDD	2.43e+06	1.20 y	0.96	34:29	52.735		* 2.5		*	Total Tetra-Furans	10.9	12.5		*	*
1,2,3,4,6,7,8-HpCDD	2.11e+06	1.01 y	0.98	37:58	52.779		* 2.5		*	Total Penta-Furans	106.89	108.67		*	*
OCDD	3.00e+06	0.88 y	0.96	41:18	108.02		* 2.5		*	Total Hexa-Furans	212	213		*	*
2,3,7,8-TCDF	8.85e+05	0.80 y	0.95	25:29	10.514		* 2.5		*	Total Hepta Furans	103	104		*	*
1,2,3,7,8-PeCDF	3.74e+06	1.71 y	0.96	29:35	54.087		* 2.5		*						
2,3,4,7,8-PeCDF	3.97e+06	1.61 y	1.01	30:29	52.171		* 2.5		*						
1,2,3,4,7,8-HxCDF	3.44e+06	1.21 y	1.18	33:11	52.241		* 2.5		*						
1,2,3,6,7,8-HxCDF	3.72e+06	1.23 y	1.07	33:19	52.109		* 2.5		*						
2,3,4,6,7,8-HxCDF	3.69e+06	1.24 y	1.11	33:55	54.817		* 2.5		*						
1,2,3,7,8,9-HxCDF	3.00e+06	1.24 y	1.06	34:52	52.596		* 2.5		*						
1,2,3,4,6,7,8-HpCDF	2.94e+06	1.02 y	1.13	36:44	51.282		* 2.5		*						
1,2,3,4,7,8,9-HpCDF	2.59e+06	1.03 y	1.28	38:30	50.501		* 2.5		*						
OCDF	4.29e+06	0.89 y	0.95	41:31	106.80		* 2.5		*						
IS	13C-2,3,7,8-TCDD	5.69e+06	0.79 y	1.10	26:15	97.097				Rec	Qual				
IS	13C-1,2,3,7,8-PeCDD	4.80e+06	0.61 y	0.88	30:45	101.73				97.1					
IS	13C-1,2,3,4,7,8-HxCDD	4.15e+06	1.32 y	0.64	34:04	92.433				102					
IS	13C-1,2,3,6,7,8-HxCDD	4.83e+06	1.28 y	0.86	34:11	80.682				92.4					
IS	13C-1,2,3,7,8,9-HxCDD	4.80e+06	1.31 y	0.81	34:29	85.056				80.7					
IS	13C-1,2,3,4,6,7,8-HpCDD	4.08e+06	1.08 y	0.65	37:57	89.256				85.1					
IS	13C-OCDD	5.80e+06	0.94 y	0.58	41:17	143.06				89.3					
IS	13C-2,3,7,8-TCDF	8.86e+06	0.77 y	1.03	25:28	94.186				71.5					
IS	13C-1,2,3,7,8-PeCDF	7.20e+06	1.58 y	0.85	29:34	92.752				94.2					
IS	13C-2,3,4,7,8-PeCDF	7.49e+06	1.63 y	0.85	30:28	97.303				92.8					
IS	13C-1,2,3,4,7,8-HxCDF	5.60e+06	0.51 y	0.83	33:10	96.317				97.3					
IS	13C-1,2,3,6,7,8-HxCDF	6.68e+06	0.51 y	1.03	33:18	92.310				96.3					
IS	13C-2,3,4,6,7,8-HxCDF	6.04e+06	0.49 y	0.95	33:54	90.662				92.3					
IS	13C-1,2,3,7,8,9-HxCDF	5.37e+06	0.49 y	0.83	34:51	92.784				90.7					
IS	13C-1,2,3,4,6,7,8-HpCDF	5.09e+06	0.43 y	0.76	36:43	96.089				92.8					
IS	13C-1,2,3,4,7,8,9-HpCDF	4.01e+06	0.43 y	0.58	38:30	98.627				96.1					
IS	13C-OCDF	8.49e+06	0.91 y	0.69	41:30	176.24				98.6					
C/Up	37Cl-2,3,7,8-TCDD	2.63e+06		1.20	26:16	40.988				88.1					
RS/RT	13C-1,2,3,4-TCDD	5.35e+06	0.78 y	1.00	25:41	100.00				102					
RS	13C-1,2,3,4-TCDF	9.09e+06	0.81 y	1.00	24:16	100.00				Integrations					
RS/RT	13C-1,2,3,4,6,9-HxCDF	6.99e+06	0.51 y	1.00	33:35	100.00				by					

Analyst: DB      Reviewed by: CT  
Date: 10/29/19      Date: 10/29/19

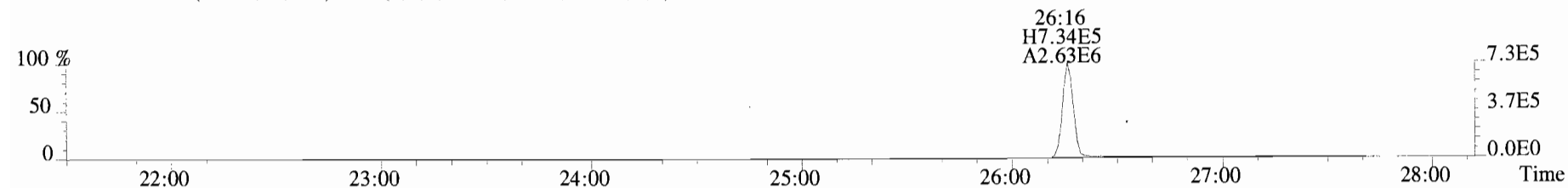
File:191028D1 #1-493 Acq:28-OCT-2019 14:37:14 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Viata Analytical Laboratory\_VG7 Text:B9J0251-BS1 OPR 1 Exp:OCDD\_DB5  
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



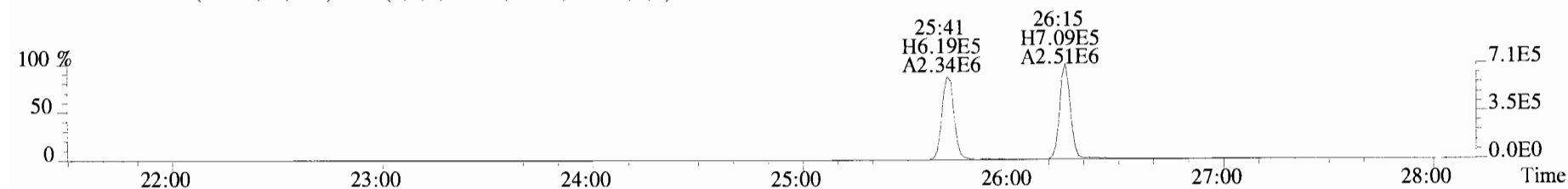
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



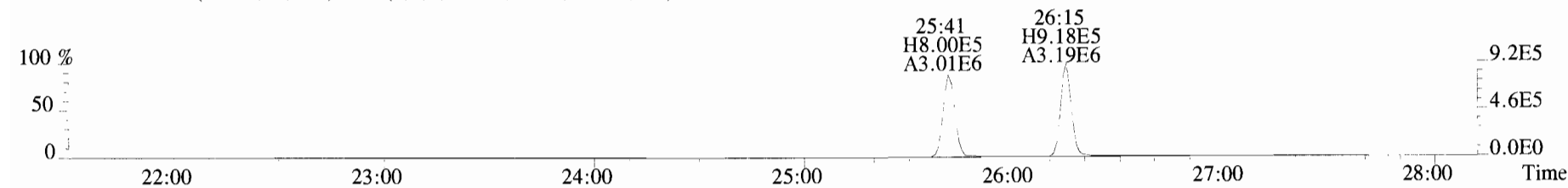
327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



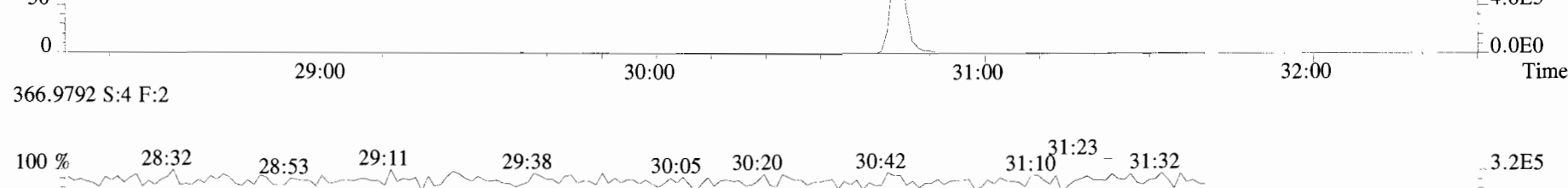
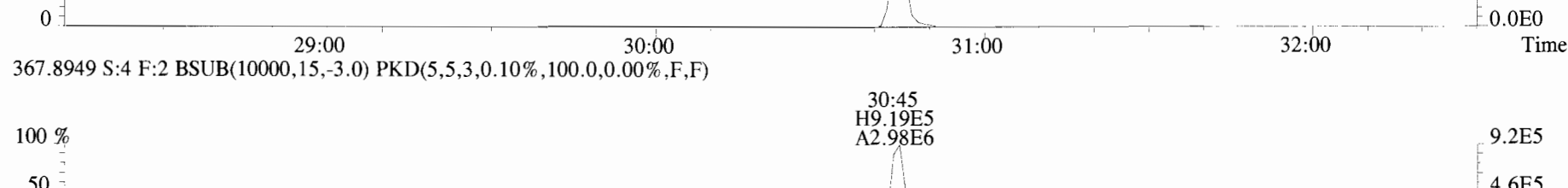
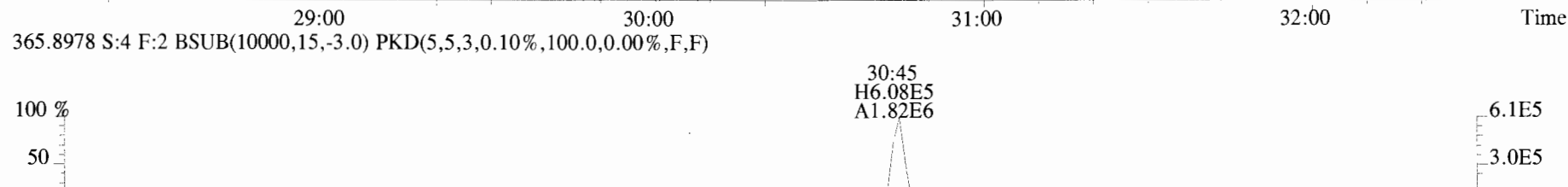
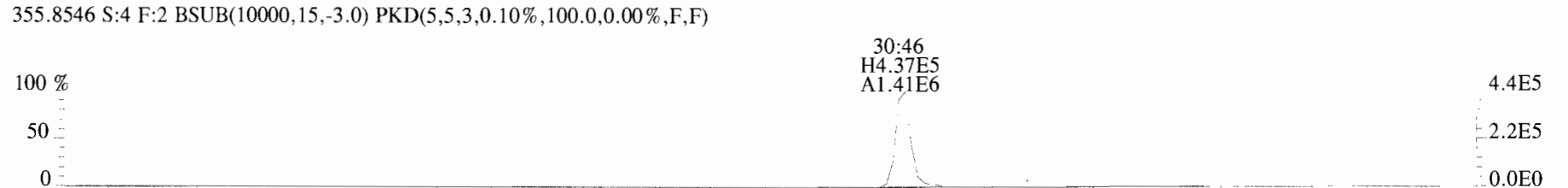
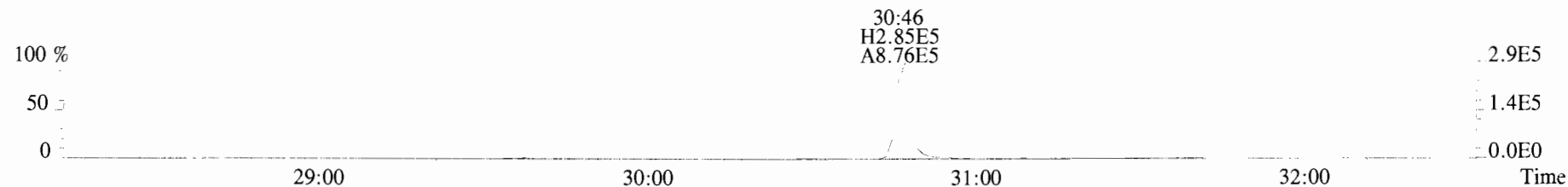
331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



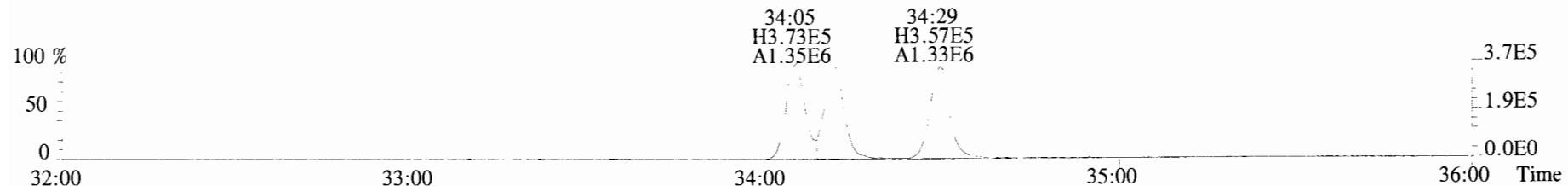
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



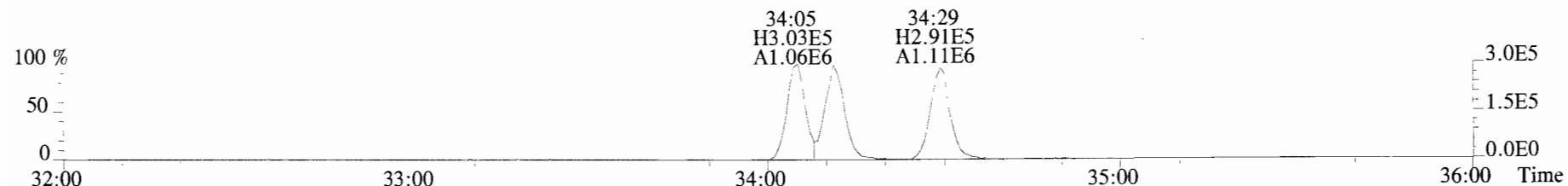
File:191028D1 #1-210 Acq:28-OCT-2019 14:37:14 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Viata Analytical Laboratory\_VG7 Text:B9J0251-BS1 OPR 1 Exp:OCDD\_DB5  
353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



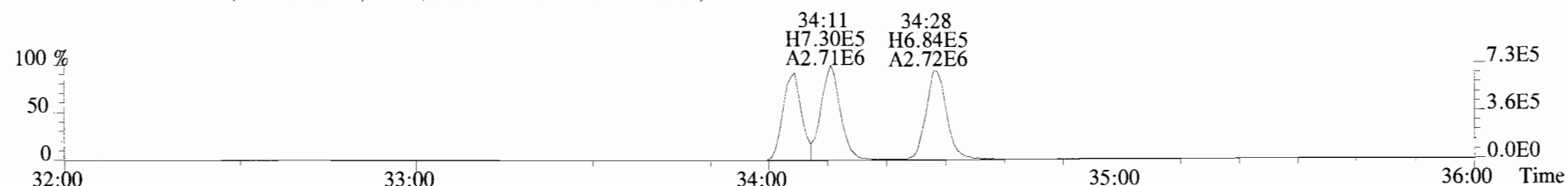
File:191028D1 #1-385 Acq:28-OCT-2019 14:37:14 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9J0251-BS1 OPR 1 Exp:OCDD\_DB5  
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



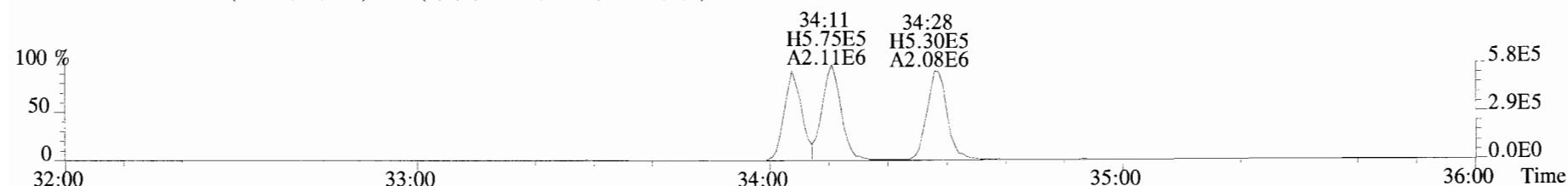
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



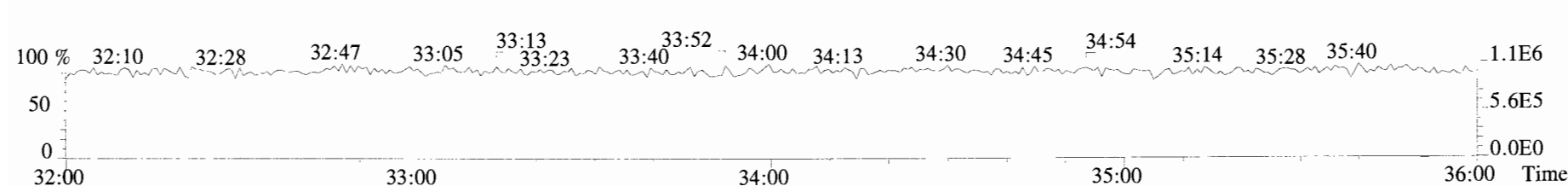
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



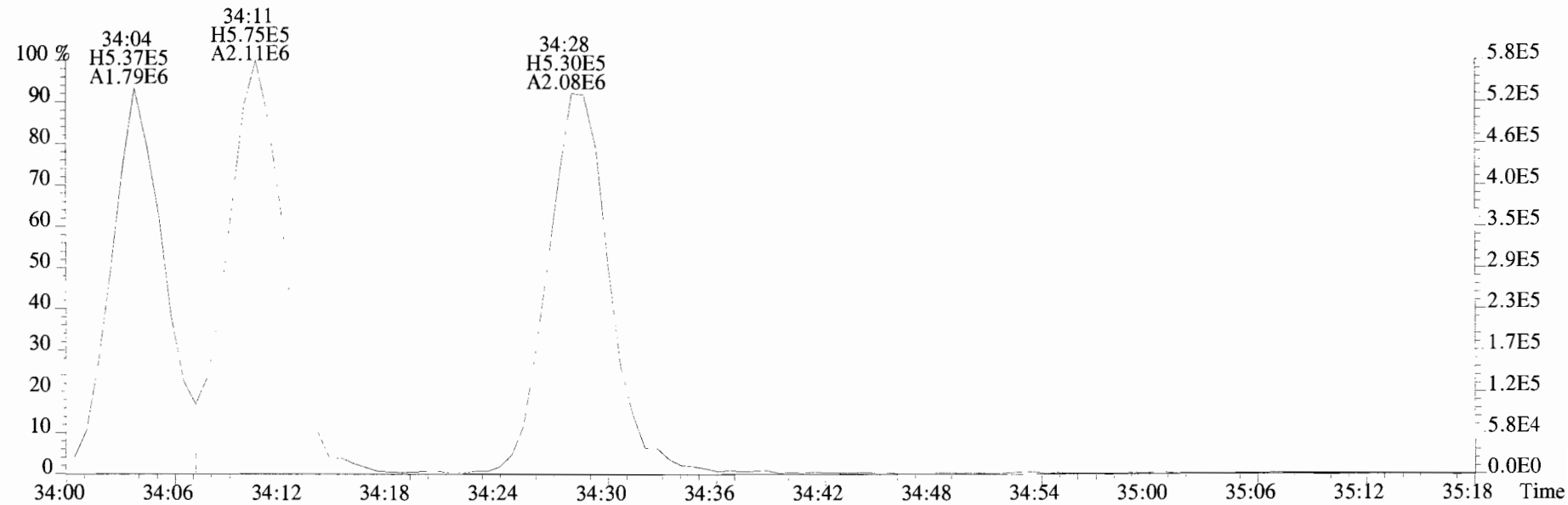
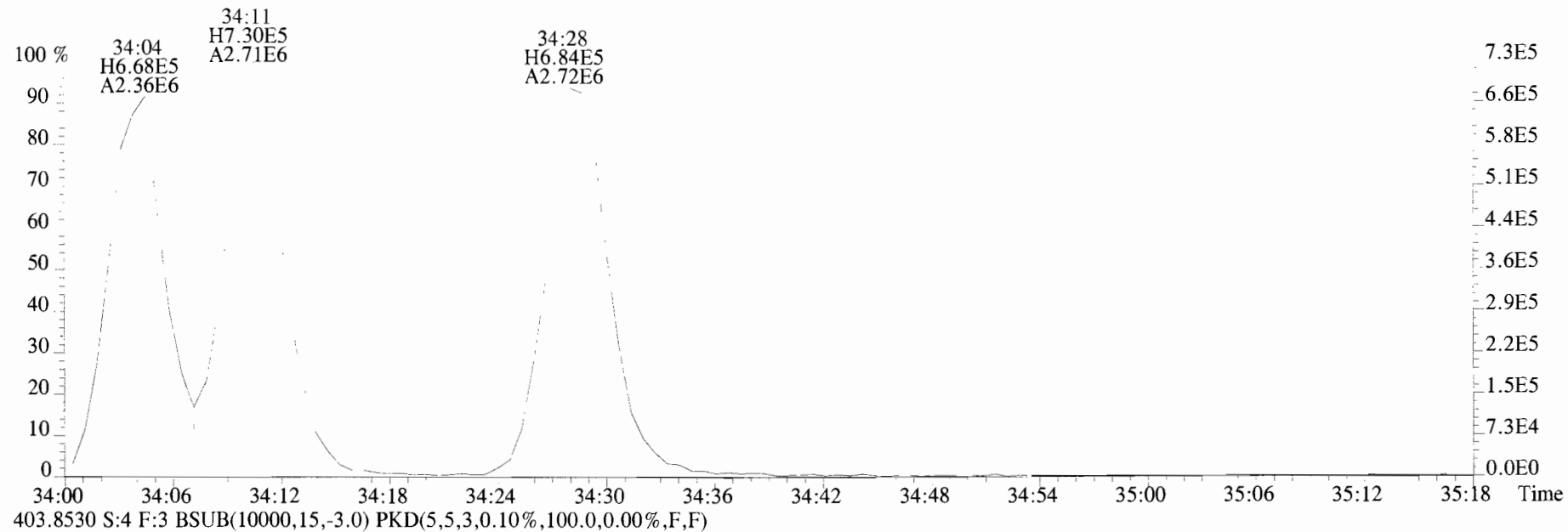
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



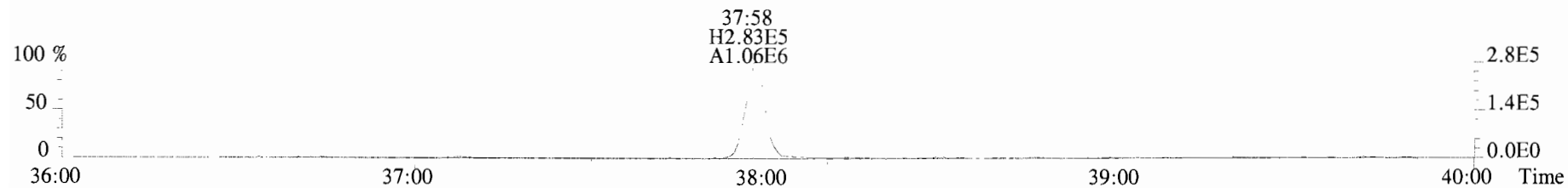
392.9760 S:4 F:3



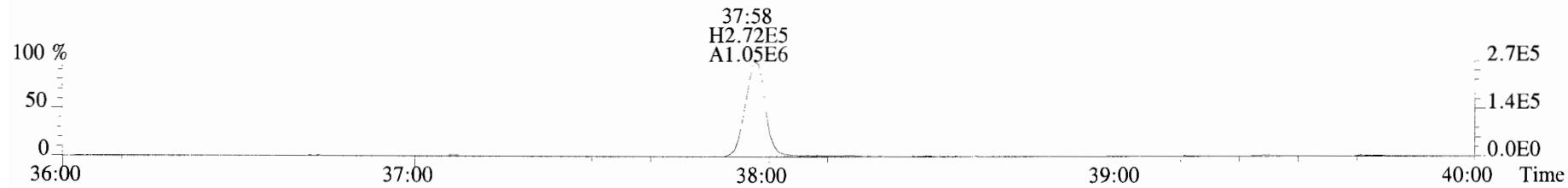
File:191028D1 #1-385 Acq:28-OCT-2019 14:37:14 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Viata Analytical Laboratory\_VG7 Text:B9J0251-BS1 OPR 1 Exp:OCDD\_DB5  
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



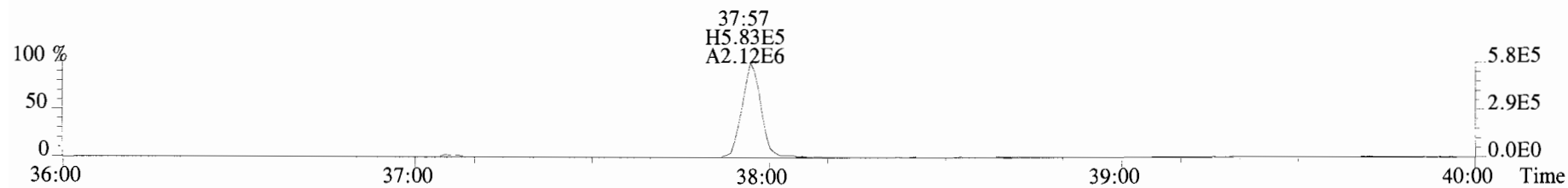
File:191028D1 #1-356 Acq:28-OCT-2019 14:37:14 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Viata Analytical Laboratory\_VG7 Text:B9J0251-BS1 OPR 1 Exp:OCDD\_DB5  
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



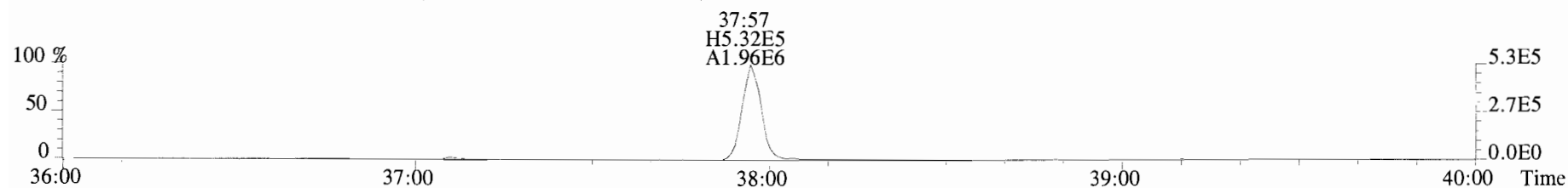
425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



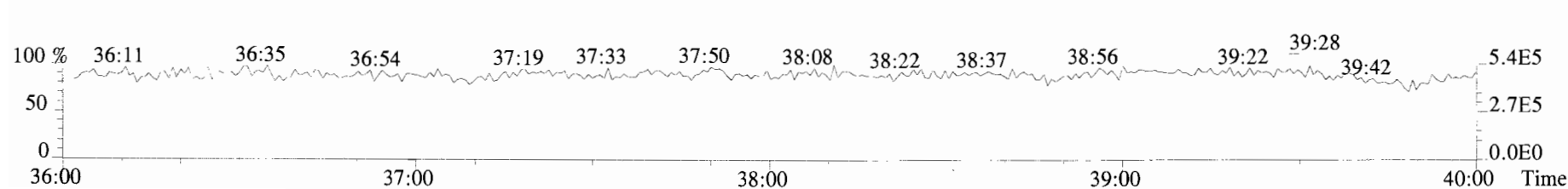
435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



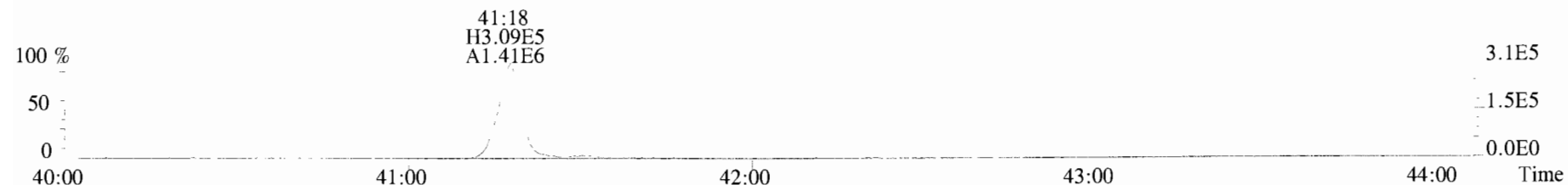
437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



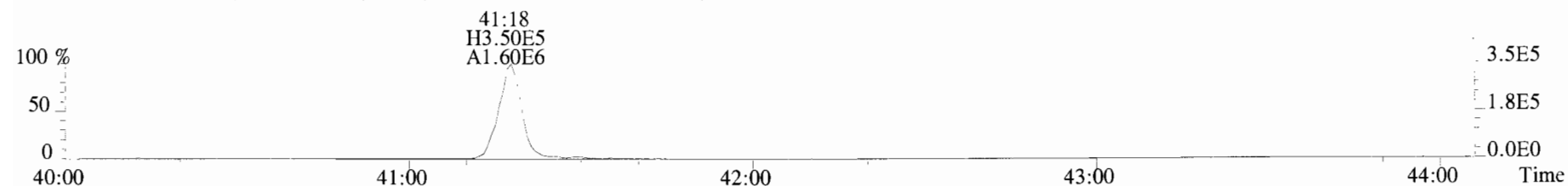
454.9728 S:4 F:4



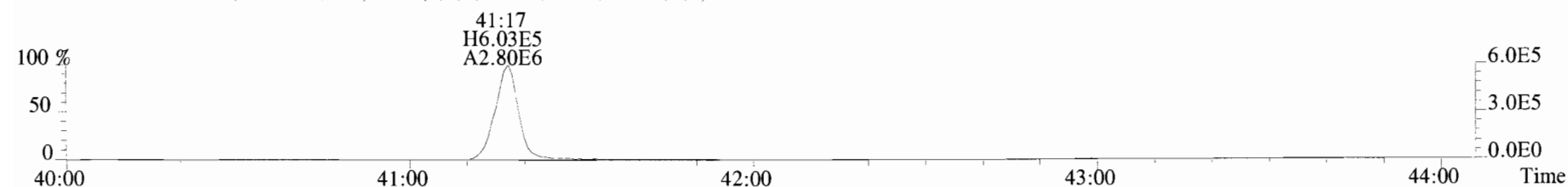
File:191028D1 #1-431 Acq:28-OCT-2019 14:37:14 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9J0251-BS1 OPR 1 Exp:OCDD\_DB5  
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



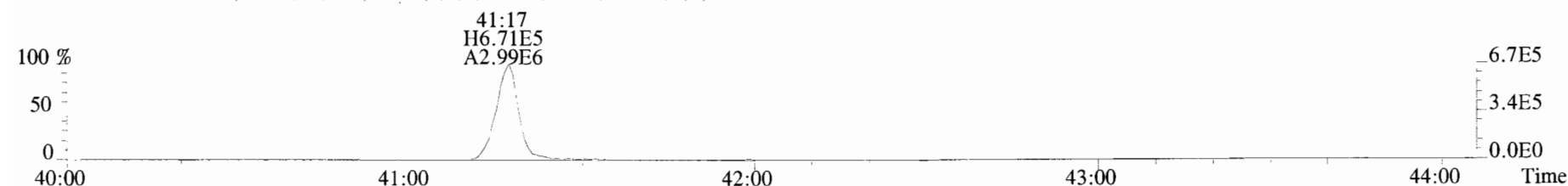
459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



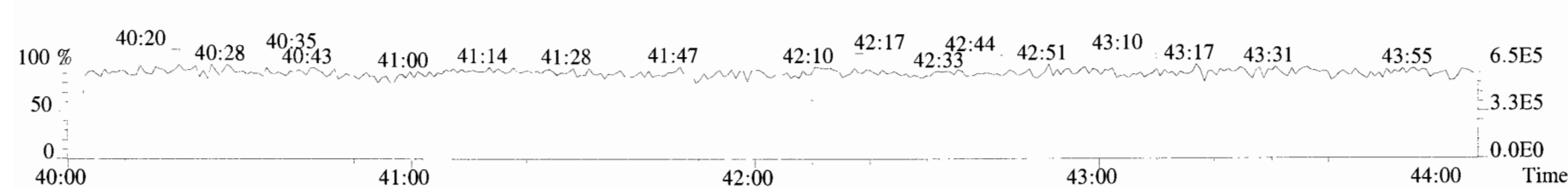
469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

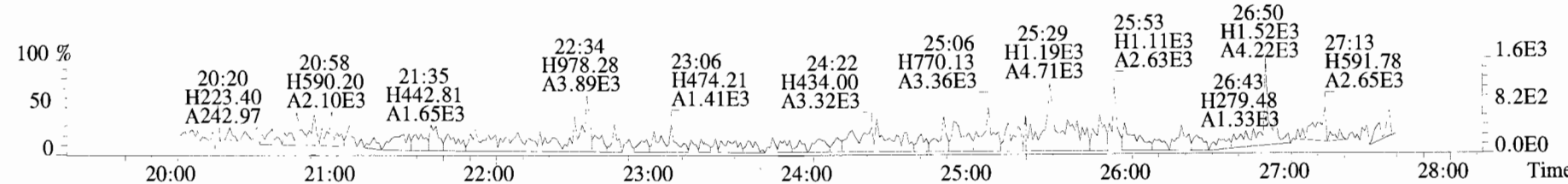
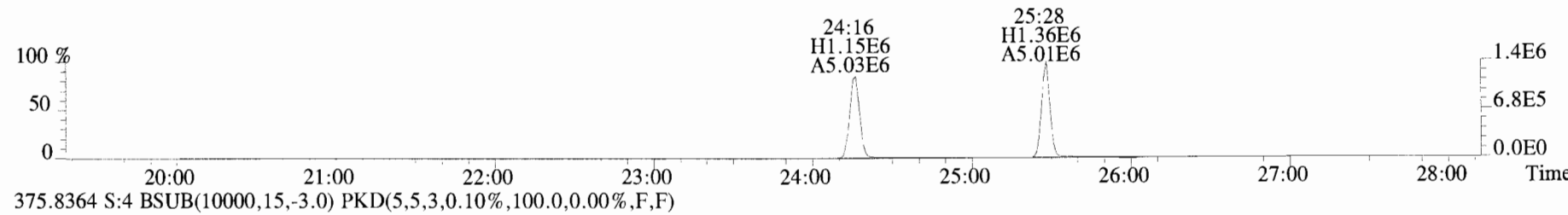
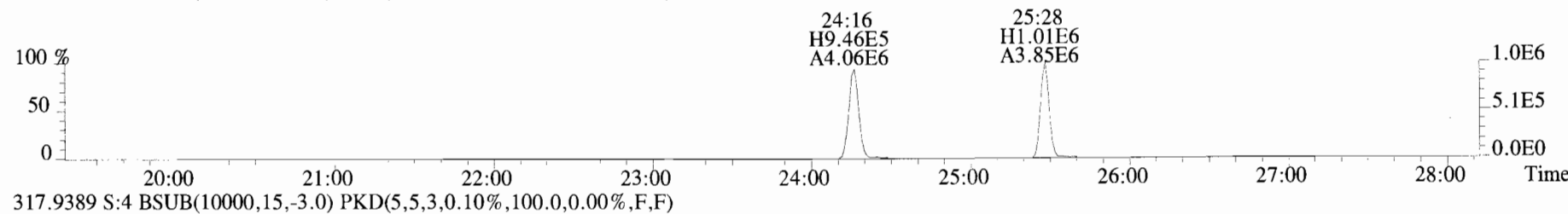
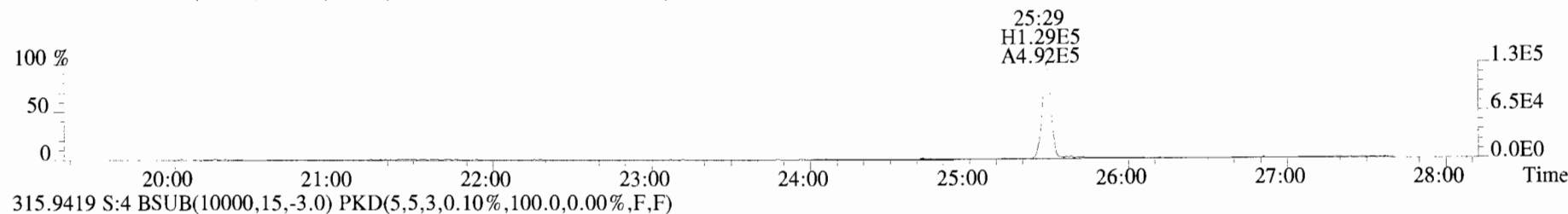
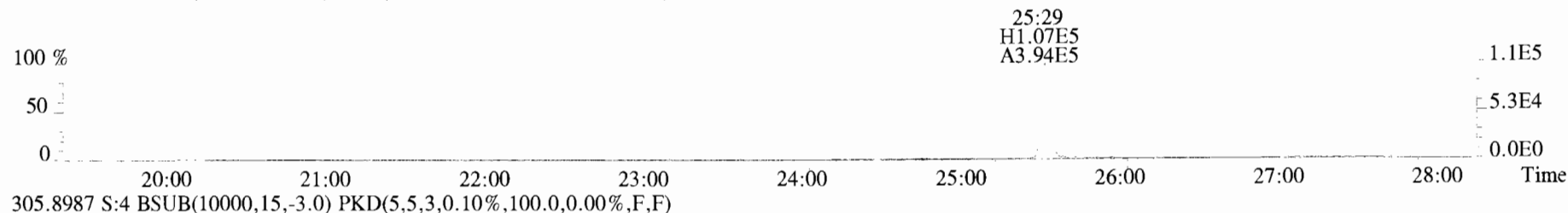


454.9728 S:4 F:5

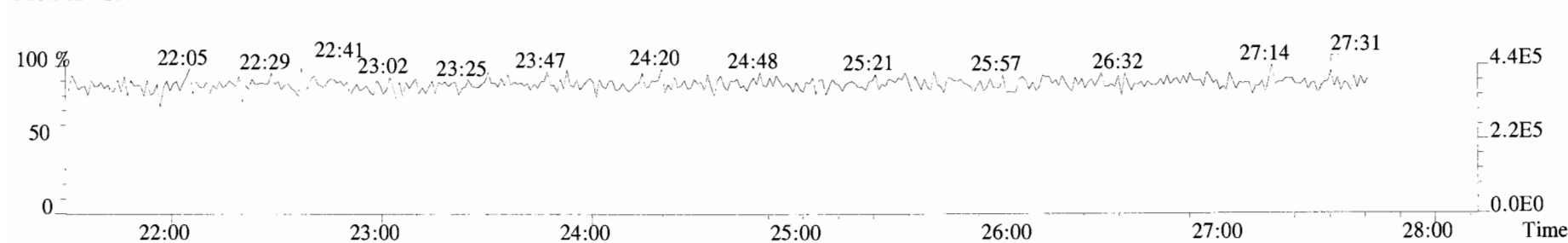
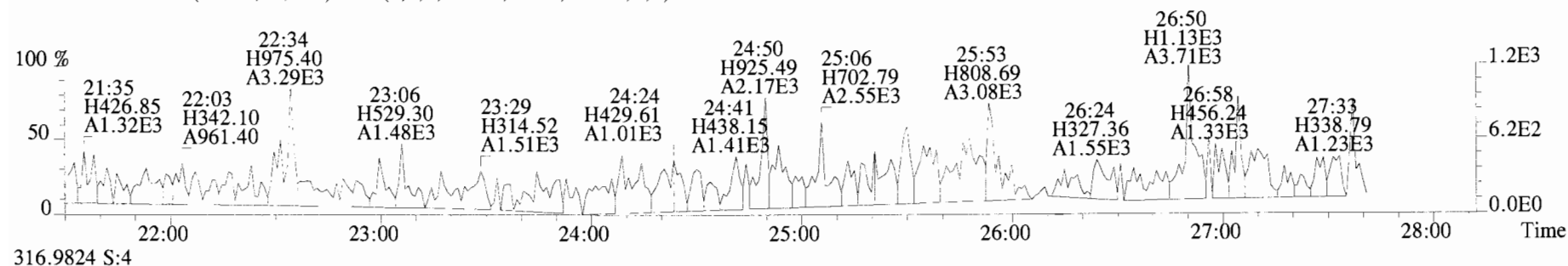
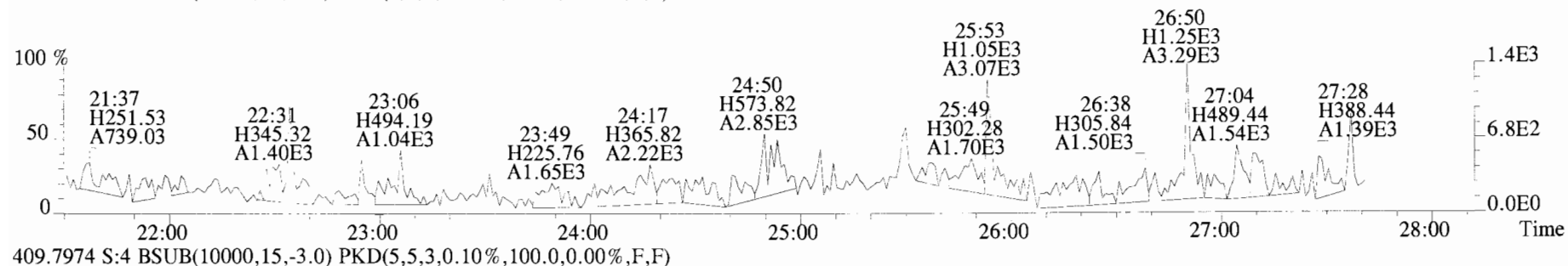
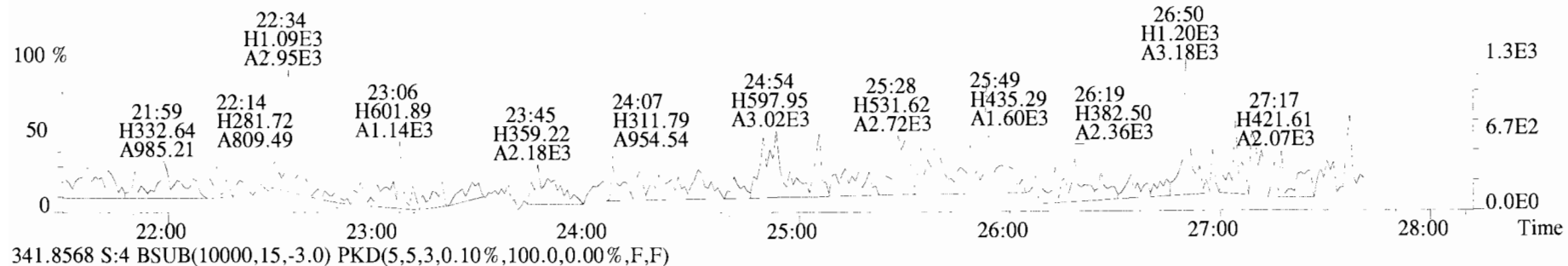




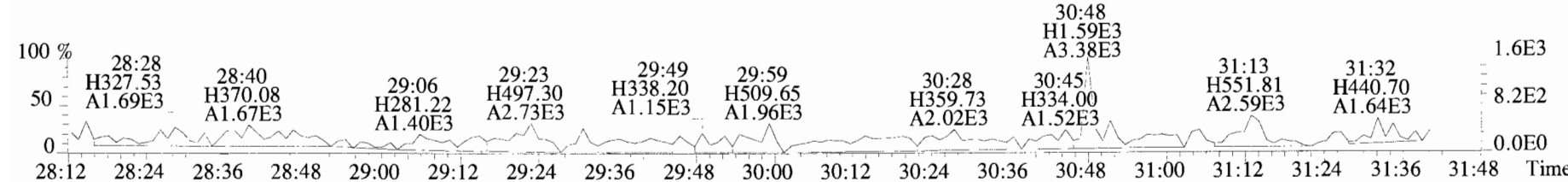
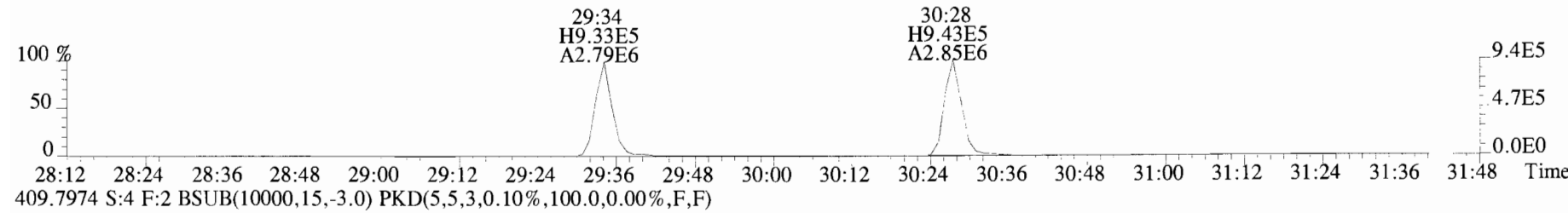
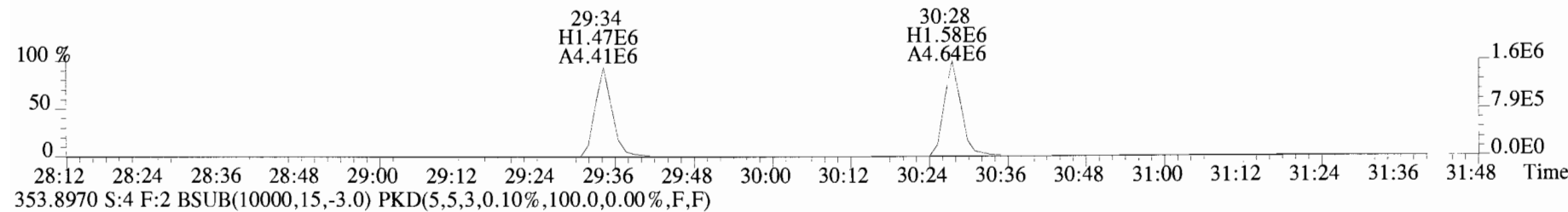
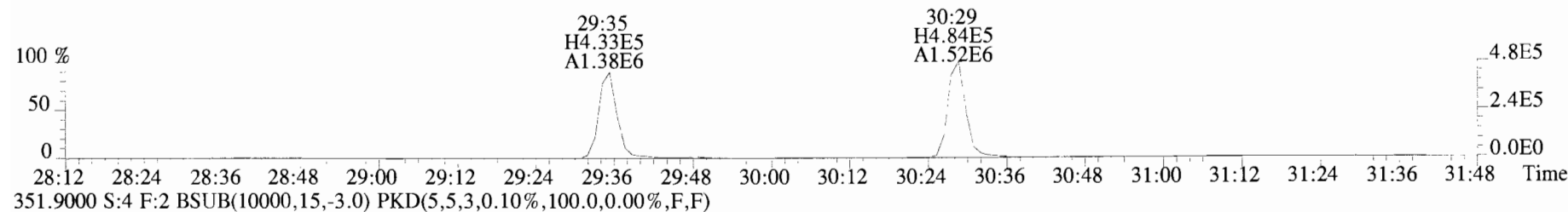
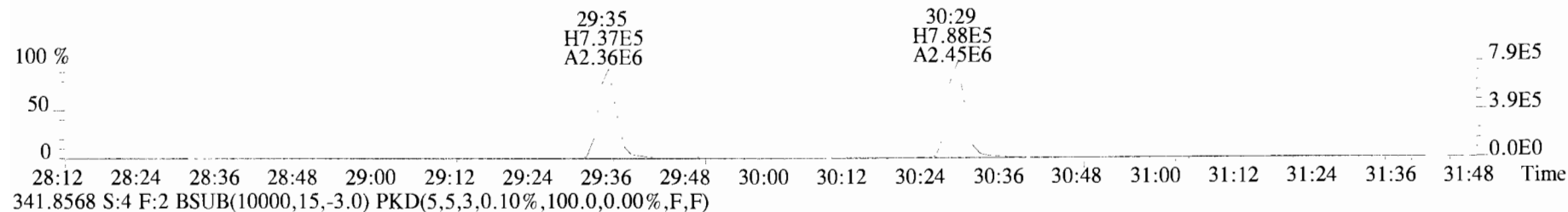
File:191028D1 #1-493 Acq:28-OCT-2019 14:37:14 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Viata Analytical Laboratory\_VG7 Text:B9J0251-BS1 OPR 1 Exp:OCDD\_DB5  
 303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



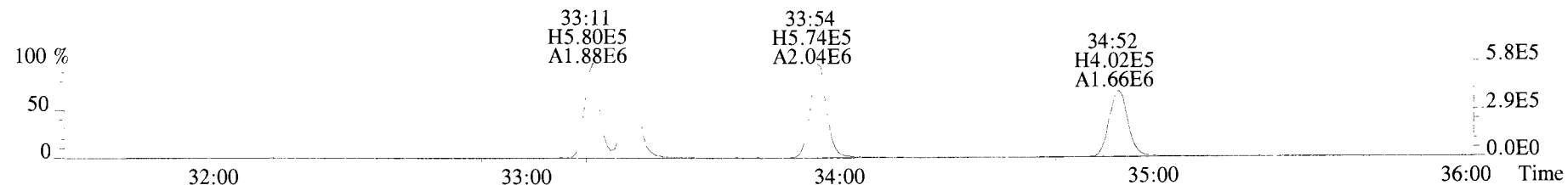
File:191028D1 #1-493 Acq:28-OCT-2019 14:37:14 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Viata Analytical Laboratory\_VG7 Text:B9J0251-BS1 OPR 1 Exp:OCDD\_DB5  
 339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



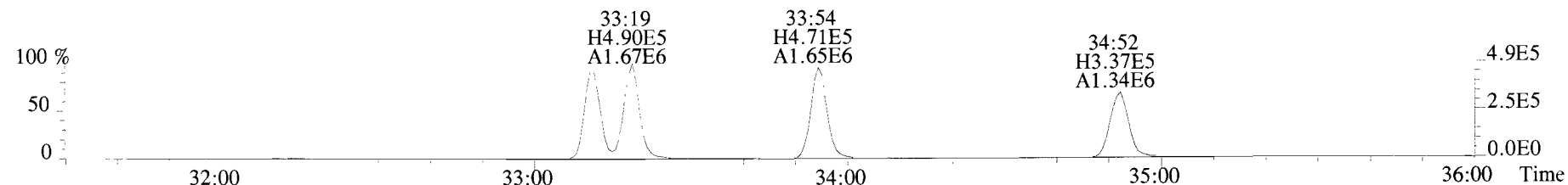
File:191028D1 #1-210 Acq:28-OCT-2019 14:37:14 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9J0251-BS1 OPR 1 Exp:OCDD\_DB5  
 339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



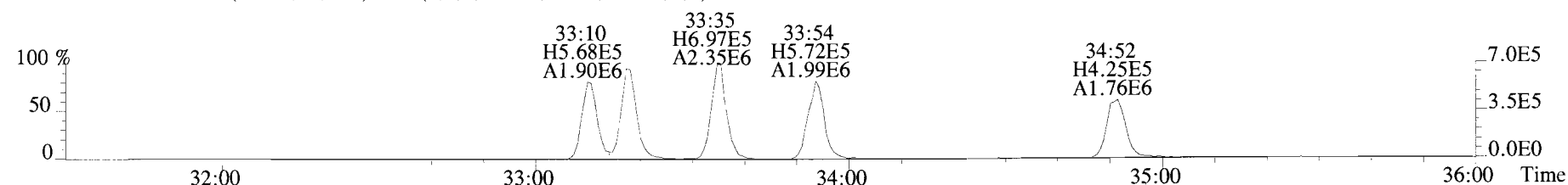
File:191028D1 #1-385 Acq:28-OCT-2019 14:37:14 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9J0251-BS1 OPR 1 Exp:OCDD\_DB5  
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



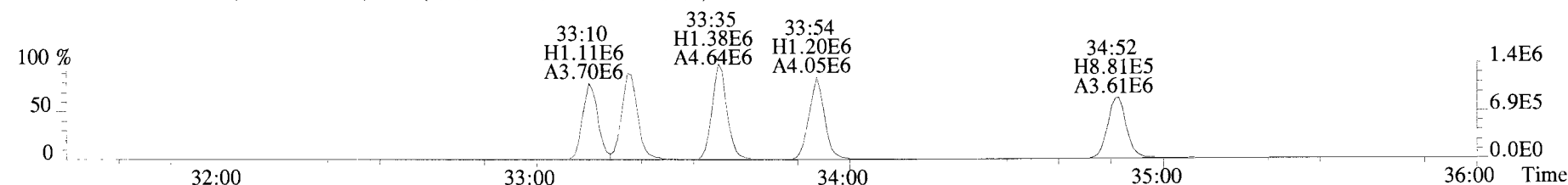
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



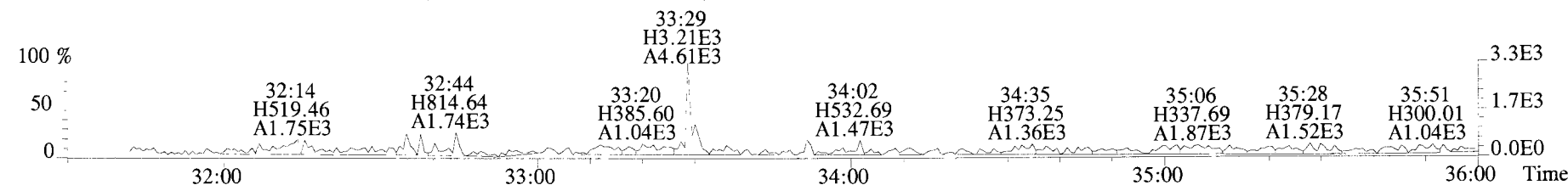
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



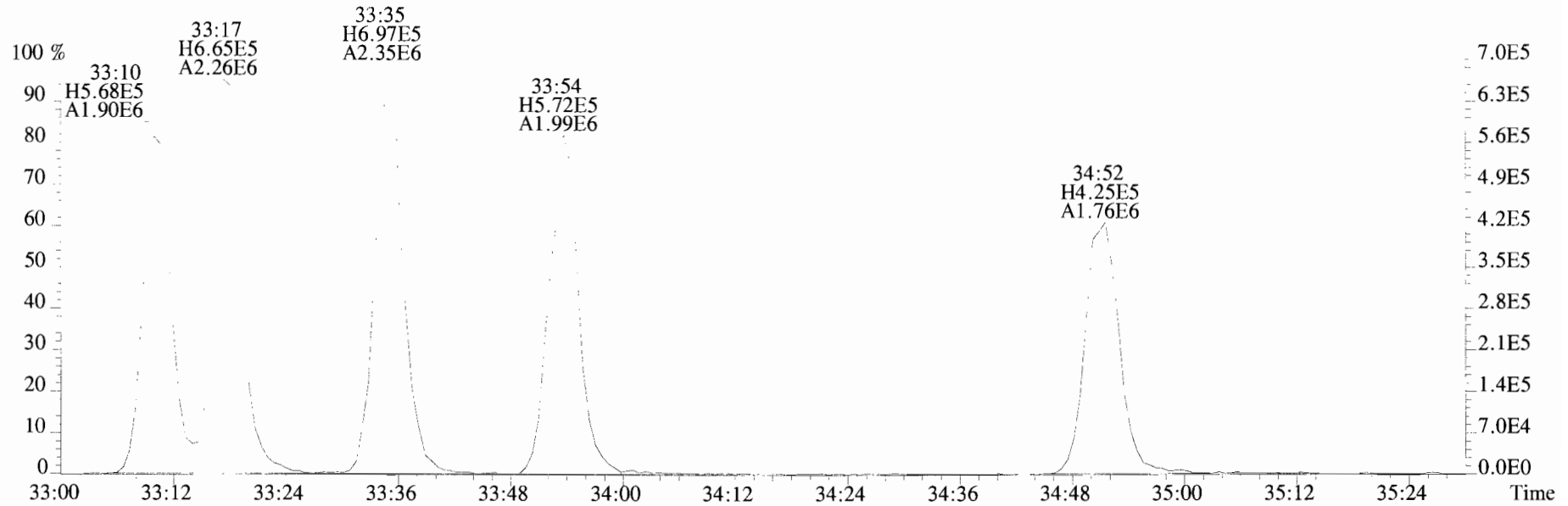
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



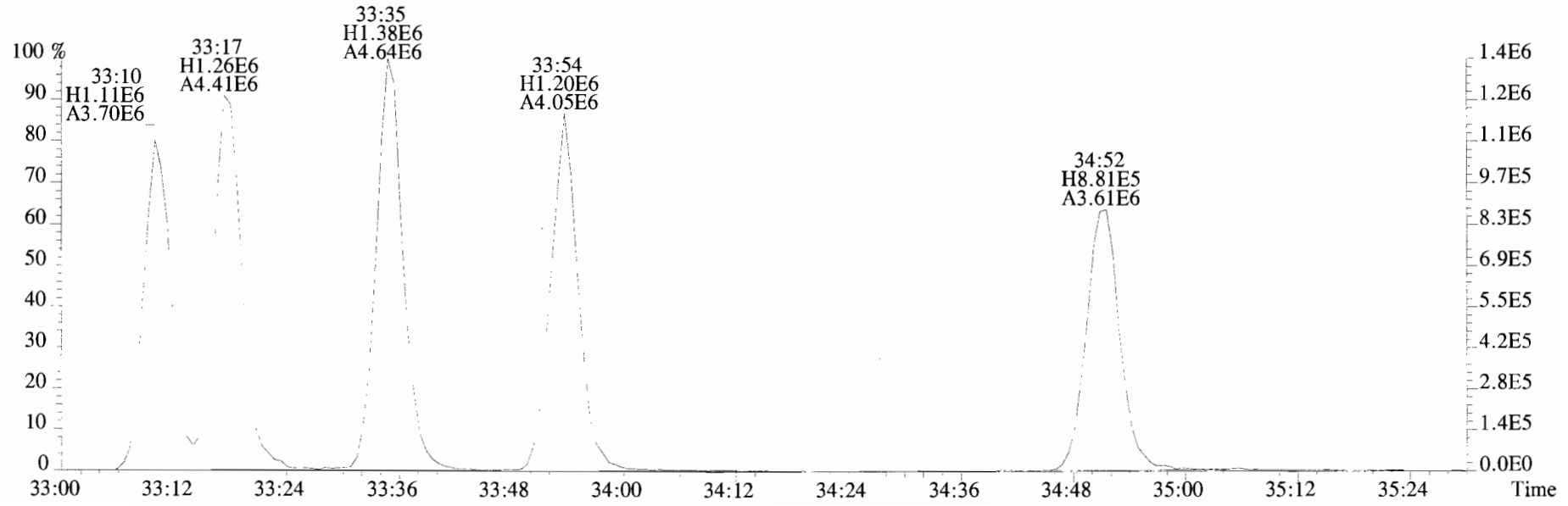
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



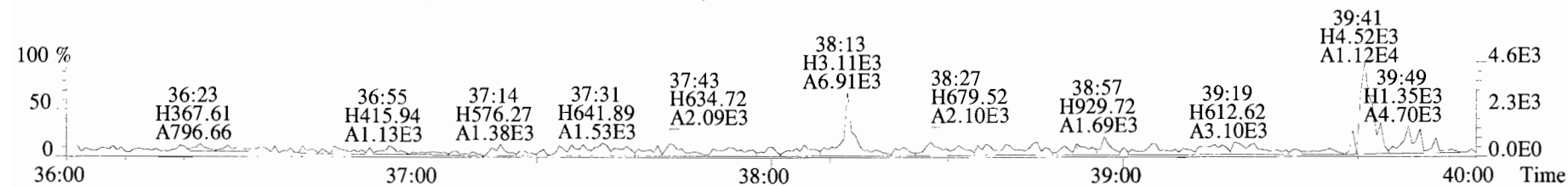
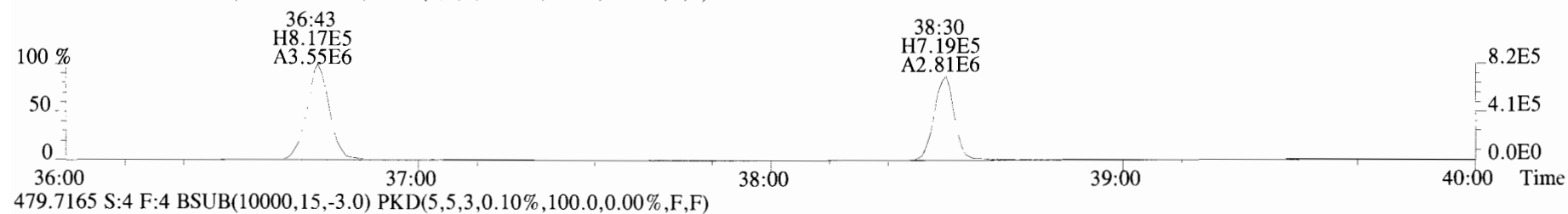
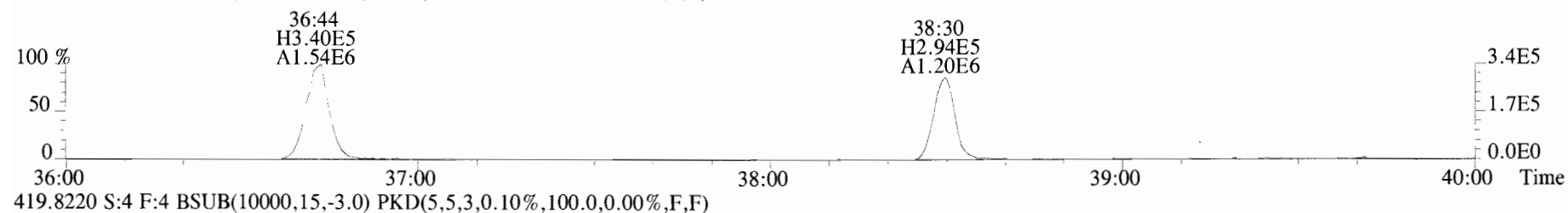
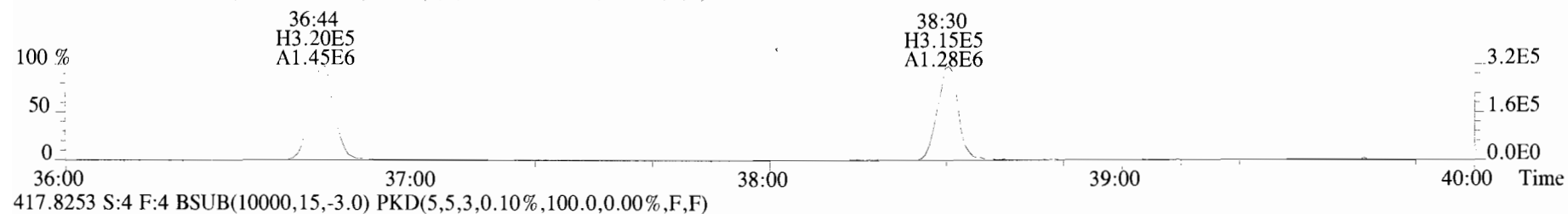
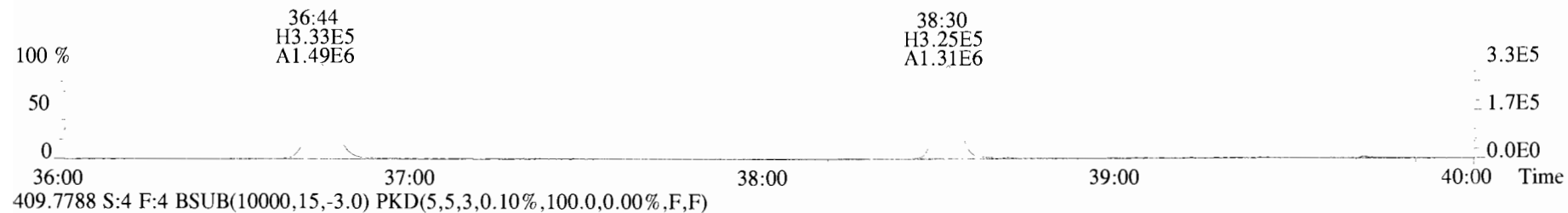
File:191028D1 #1-385 Acq:28-OCT-2019 14:37:14 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Viata Analytical Laboratory\_VG7 Text:B9J0251-BS1 OPR 1 Exp:OCDD\_DB5  
 383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



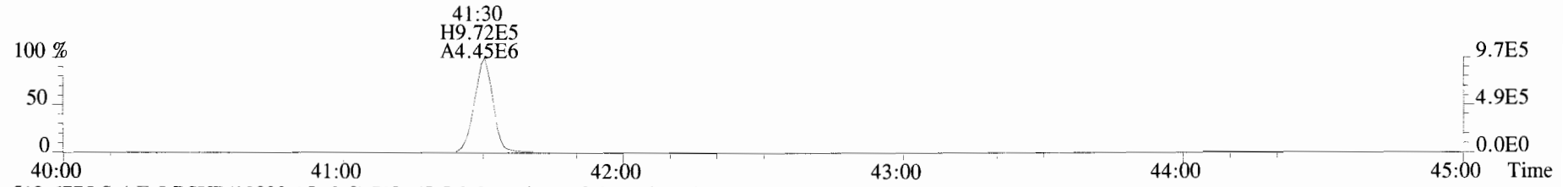
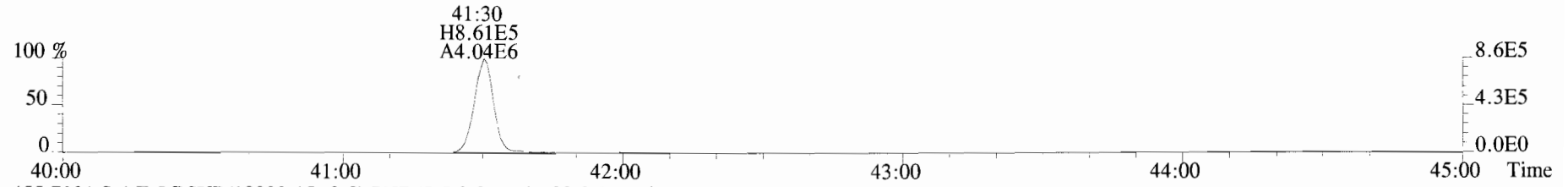
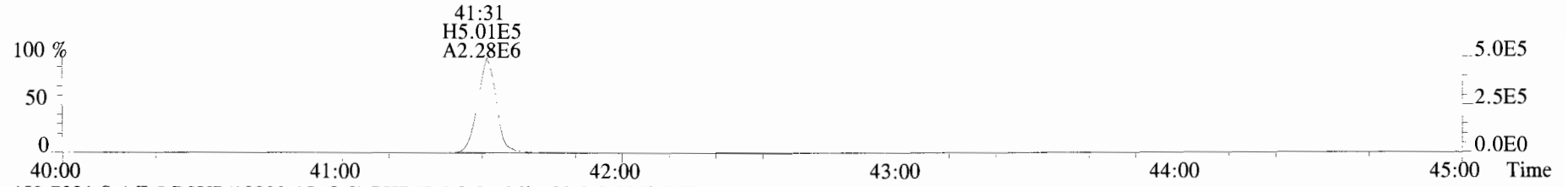
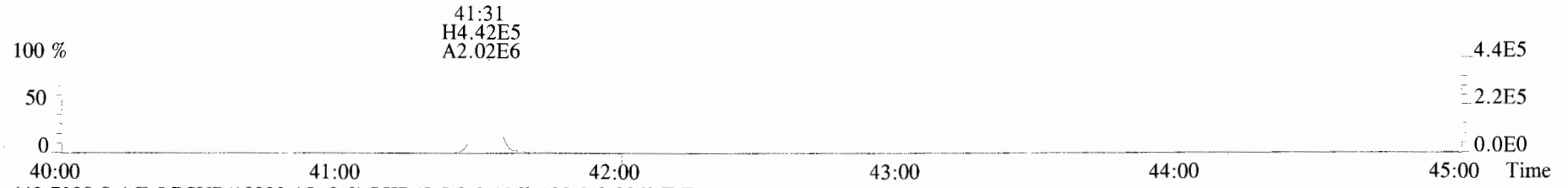
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191028D1 #1-356 Acq:28-OCT-2019 14:37:14 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9J0251-BS1 OPR 1 Exp:OCDD\_DB5  
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191028D1 #1-431 Acq:28-OCT-2019 14:37:14 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Viata Analytical Laboratory VG7 Text:B9J0251-BS1 OPR 1 Exp:OCDD\_DB5  
 441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Client ID: PDI FB-1910101246  
 Lab ID: 1903655-04

Filename: 191028D1 S:9 Acq:28-OCT-19 16:36:41  
 GC Column ID: ZB-5MS ICal: 1613VG7 10-9-19 wt/vol: 1.034

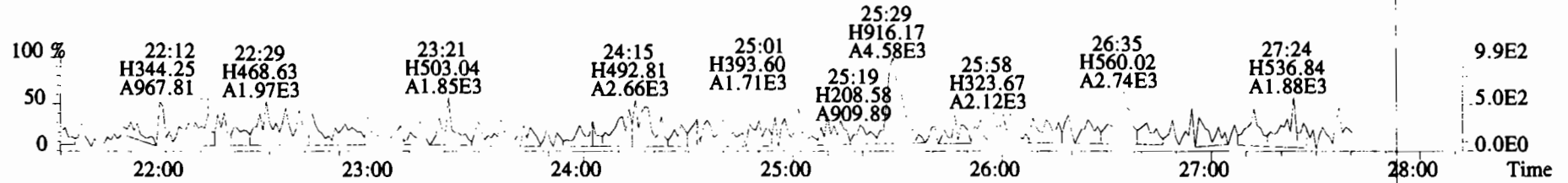
ConCal: ST191028D1-1  
 EndCAL: NA

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	*	* n	0.91	Not F <sub>7</sub>	*		116	2.5	0.644	Total Tetra-Dioxins	*	*		116	0.644
1,2,3,7,8-PeCDD	*	* n	0.90	Not F <sub>7</sub>	*		128	2.5	0.717	Total Penta-Dioxins	*	*		128	0.717
1,2,3,4,7,8-HxCDD	*	* n	1.10	Not F <sub>7</sub>	*		85.0	2.5	0.750	Total Hexa-Dioxins	*	*		85.0	0.793
1,2,3,6,7,8-HxCDD	*	* n	0.94	Not F <sub>7</sub>	*		85.0	2.5	0.845	Total Hepta-Dioxins	*	*		116	1.07
1,2,3,7,8,9-HxCDD	*	* n	0.96	Not F <sub>7</sub>	*		85.0	2.5	0.776	Total Tetra-Furans	*	*		104	0.414
1,2,3,4,6,7,8-HpCDD	*	* n	0.98	Not F <sub>7</sub>	*		116	2.5	1.07	Total Penta-Furans	0.0000	0.0000		135	0.746
OCDD	*	* n	0.96	Not F <sub>7</sub>	*		131	2.5	2.01	Total Hexa-Furans	*	*		115	0.453
										Total Hepta-Furans	*	*		90.9	0.494
2,3,7,8-TCDF	*	* n	0.95	Not F <sub>7</sub>	*		104	2.5	0.414						
1,2,3,7,8-PeCDF	*	* n	0.96	Not F <sub>7</sub>	*		135	2.5	0.789						
2,3,4,7,8-PeCDF	*	* n	1.01	Not F <sub>7</sub>	*		135	2.5	0.706						
1,2,3,4,7,8-HxCDF	*	* n	1.18	Not F <sub>7</sub>	*		115	2.5	0.420						
1,2,3,6,7,8-HxCDF	*	* n	1.07	Not F <sub>7</sub>	*		115	2.5	0.412						
2,3,4,6,7,8-HxCDF	*	* n	1.11	Not F <sub>7</sub>	*		115	2.5	0.437						
1,2,3,7,8,9-HxCDF	*	* n	1.06	Not F <sub>7</sub>	*		115	2.5	0.556						
1,2,3,4,6,7,8-HpCDF	*	* n	1.13	Not F <sub>7</sub>	*		90.9	2.5	0.516						
1,2,3,4,7,8,9-HpCDF	*	* n	1.28	Not F <sub>7</sub>	*		90.9	2.5	0.468						
OCDF	*	* n	0.95	Not F <sub>7</sub>	*		114	2.5	1.29						
IS										Rec	Qual				
IS	13C-2,3,7,8-TCDD	5.87e+06	0.79 y	1.10	26:16	2017.6				104					
IS	13C-1,2,3,7,8-PeCDD	4.66e+06	0.60 y	0.88	30:46	1989.2				103					
IS	13C-1,2,3,4,7,8-HxCDD	4.13e+06	1.28 y	0.64	34:05	1837.7				95.0					
IS	13C-1,2,3,6,7,8-HxCDD	4.81e+06	1.32 y	0.86	34:12	1605.4				83.0					
IS	13C-1,2,3,7,8,9-HxCDD	4.72e+06	1.25 y	0.81	34:30	1672.4				86.5					
IS	13C-1,2,3,4,6,7,8-HpCDD	3.93e+06	1.06 y	0.65	37:58	1718.1				88.8					
IS	13C-OCDD	5.75e+06	0.93 y	0.58	41:18	2836.0				73.3					
IS	13C-2,3,7,8-TCDF	8.95e+06	0.82 y	1.03	25:29	1969.3				102					
IS	13C-1,2,3,7,8-PeCDF	7.47e+06	1.62 y	0.85	29:36	1990.0				103					
IS	13C-2,3,4,7,8-PeCDF	7.40e+06	1.57 y	0.85	30:29	1987.6				103					
IS	13C-1,2,3,4,7,8-HxCDF	5.77e+06	0.51 y	0.83	33:12	1982.9				103					
IS	13C-1,2,3,6,7,8-HxCDF	6.67e+06	0.51 y	1.03	33:19	1841.3				95.2					
IS	13C-2,3,4,6,7,8-HxCDF	6.30e+06	0.51 y	0.95	33:55	1888.5				97.6					
IS	13C-1,2,3,7,8,9-HxCDF	5.59e+06	0.51 y	0.83	34:53	1929.0				99.7					
IS	13C-1,2,3,4,6,7,8-HpCDF	5.10e+06	0.43 y	0.76	36:44	1922.1				99.4					
IS	13C-1,2,3,4,7,8,9-HpCDF	4.04e+06	0.42 y	0.58	38:31	1984.4				103					
IS	13C-OCDF	8.07e+06	0.91 y	0.69	41:31	3348.1				86.5					
C/Up	37C1-2,3,7,8-TCDD	2.60e+06		1.20	26:17	816.38				106					
RS/RT	13C-1,2,3,4-TCDD	5.14e+06	0.79 y	1.00	25:43	1934.3									
RS	13C-1,2,3,4-TCDF	8.50e+06	0.83 y	1.00	24:17	1934.3									
RS/RT	13C-1,2,3,4,6,9-HxCDF	6.77e+06	0.50 y	1.00	33:37	1934.3									

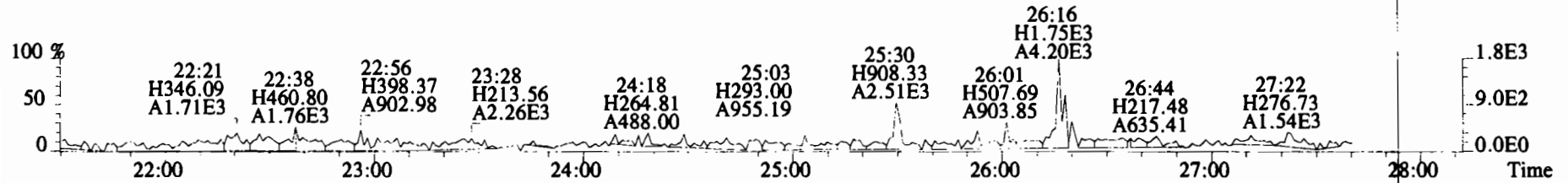
Integrations  
 by DB  
 Analyst: DB  
 Date: 10/29/19  
 Reviewed  
 by C7  
 Analyst: C7  
 Date: 11/05/19



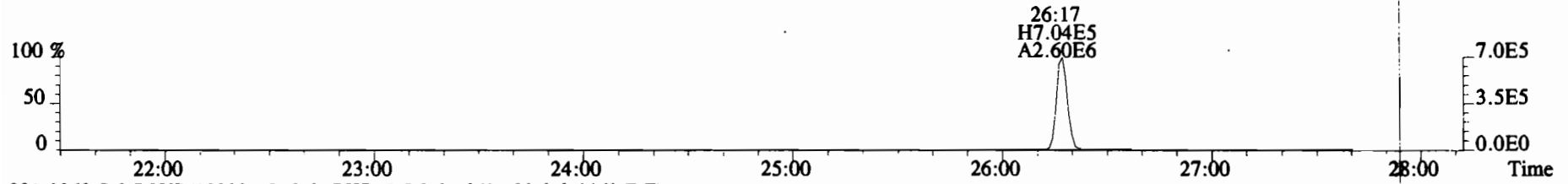
File:191028D1 #1-492 Acq:28-OCT-2019 18:36:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Viata Analytical Laboratory\_VG7 Text:1903655-04 PDI-FB-1910101246 1.03397 Exp:OCDD\_DB5  
319.8965 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



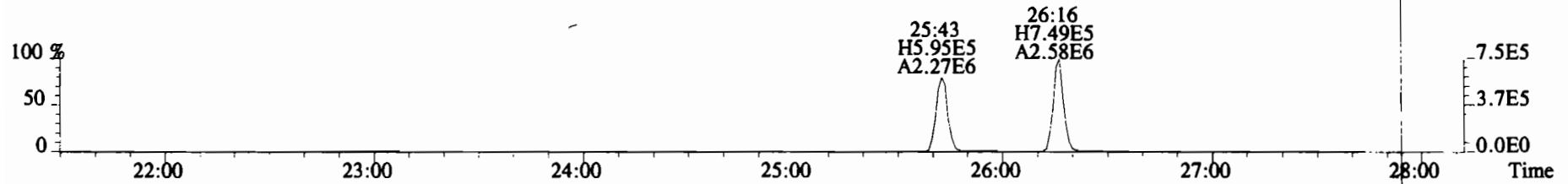
321.8936 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



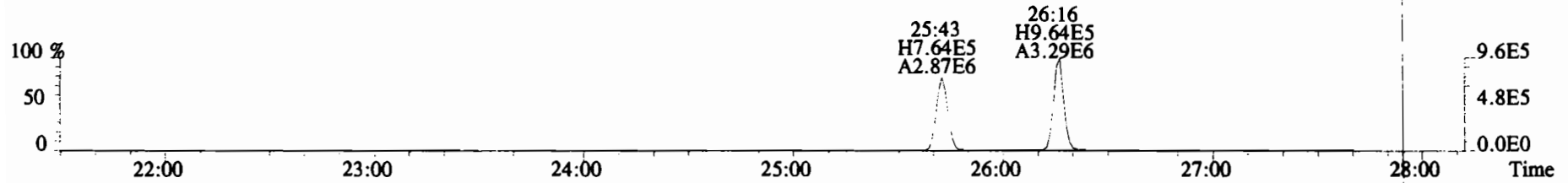
327.8847 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



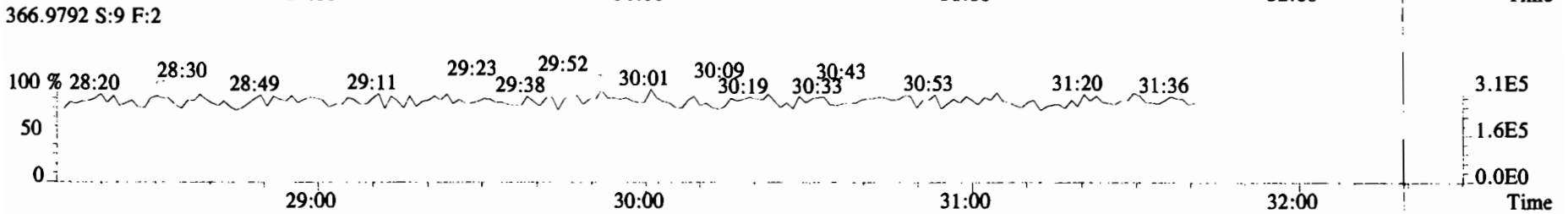
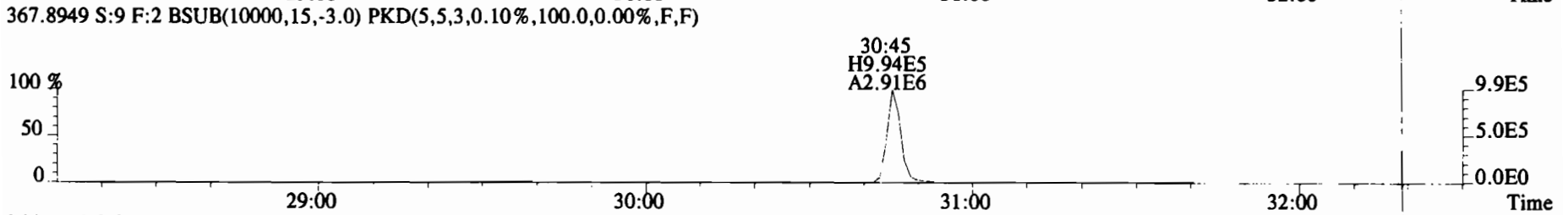
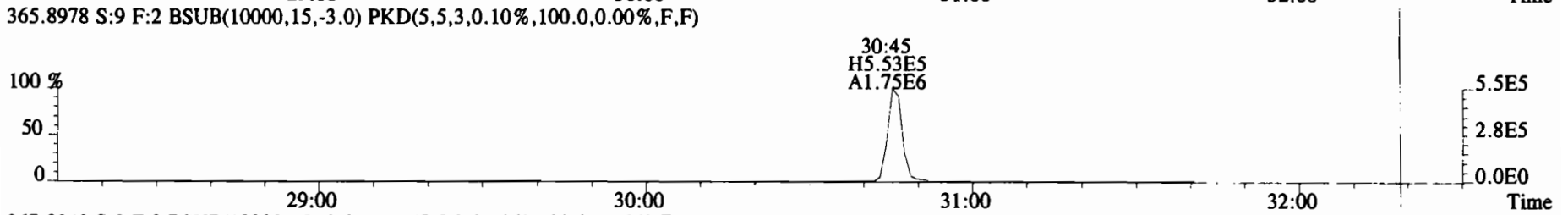
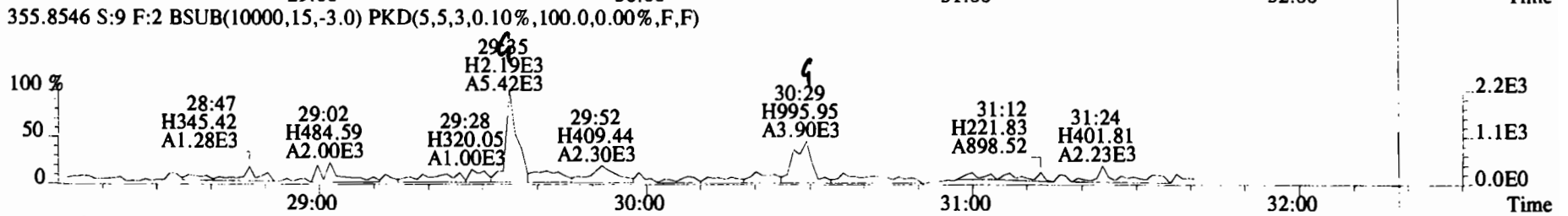
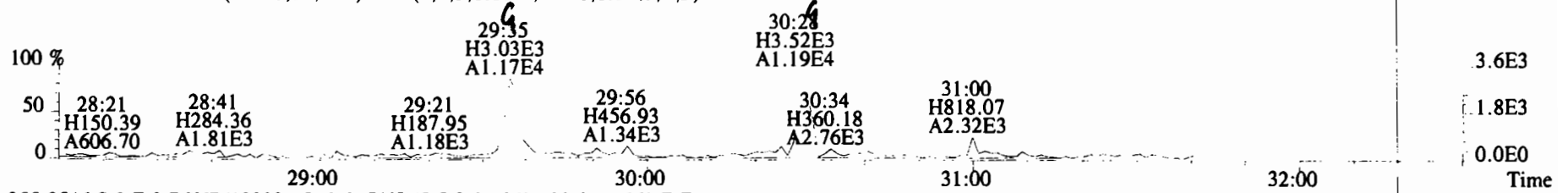
331.9368 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



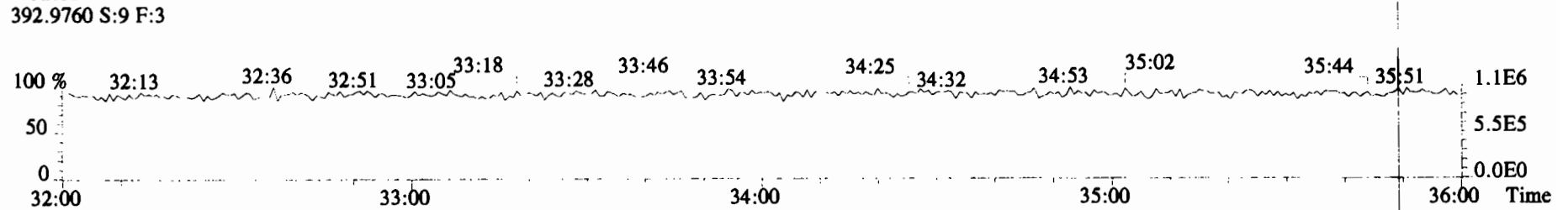
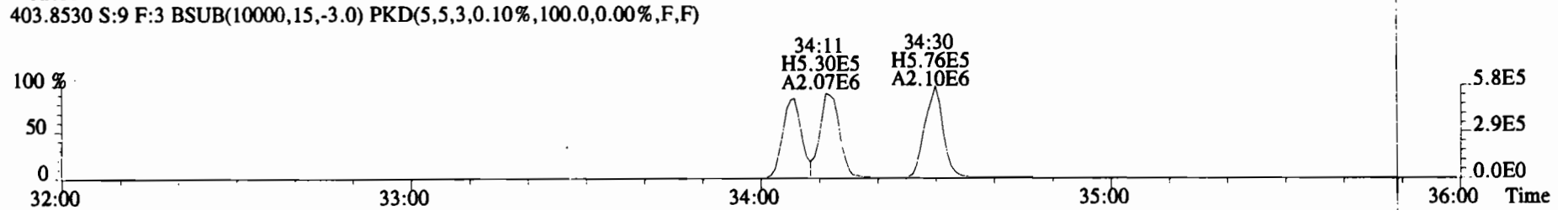
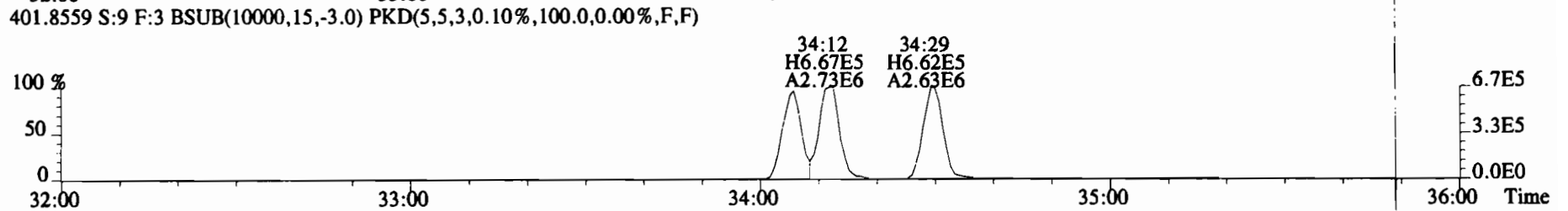
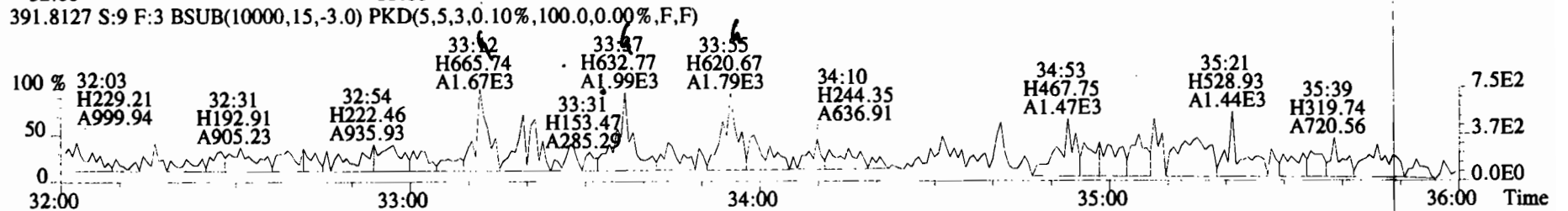
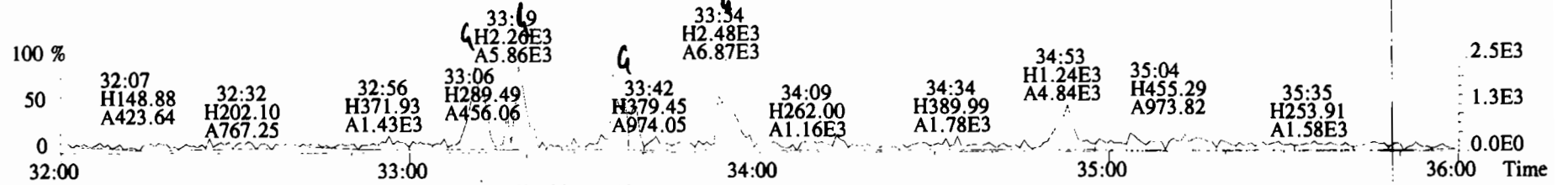
333.9339 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



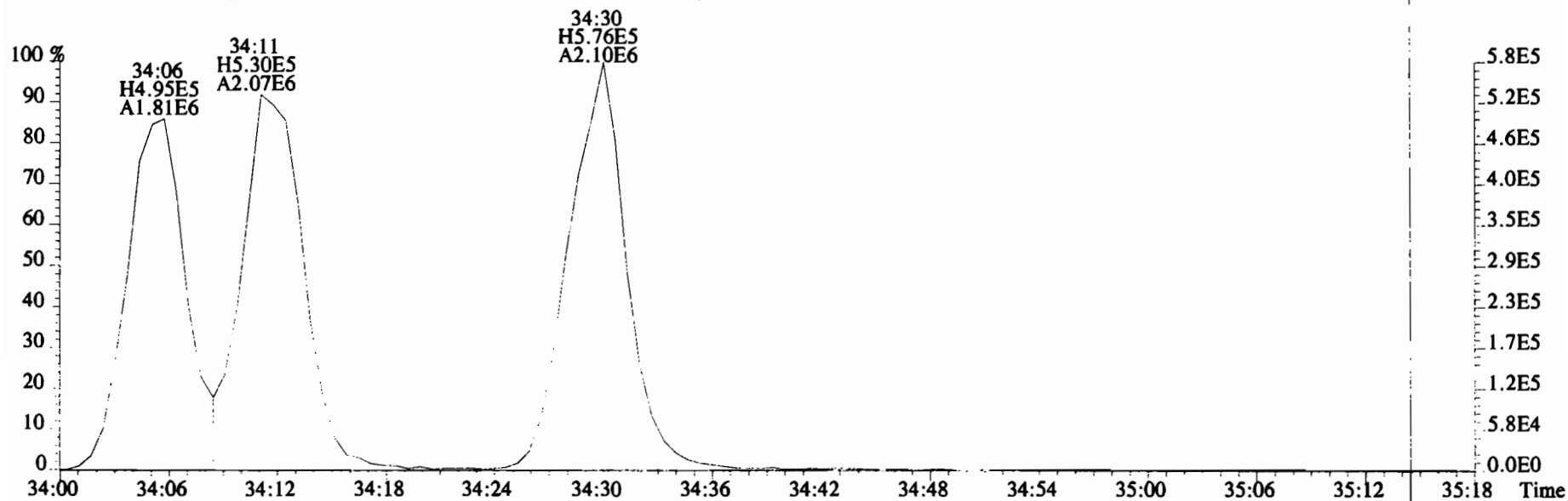
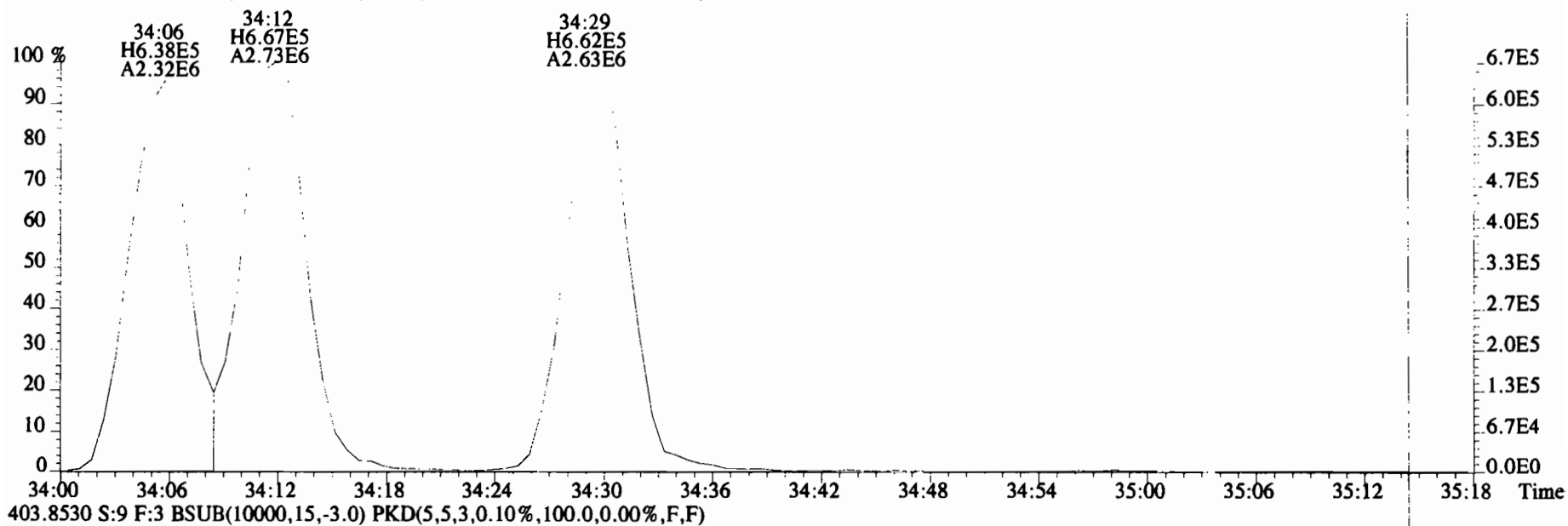
File:191028D1 #1-211 Acq:28-OCT-2019 18:36:41 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#9 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:1903655-04 PDI-FB-1910101246 1.03397 Exp:OCDD\_DB5  
 353.8576 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



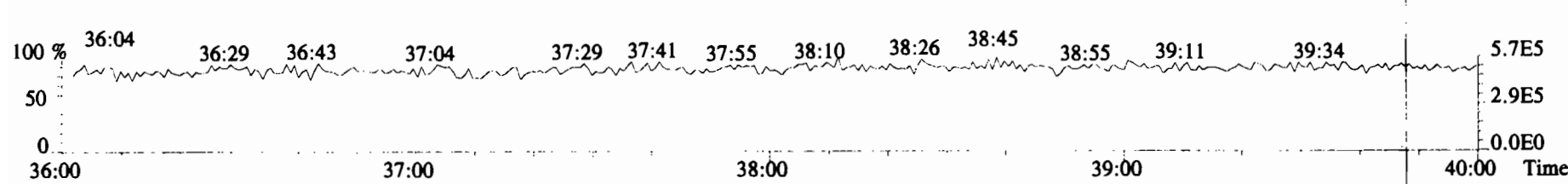
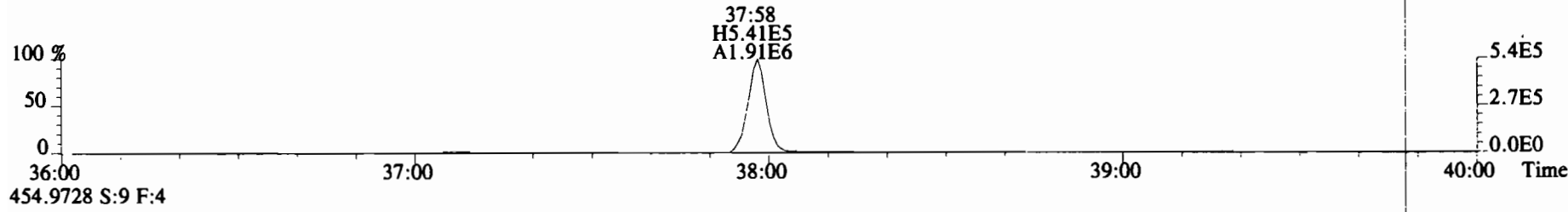
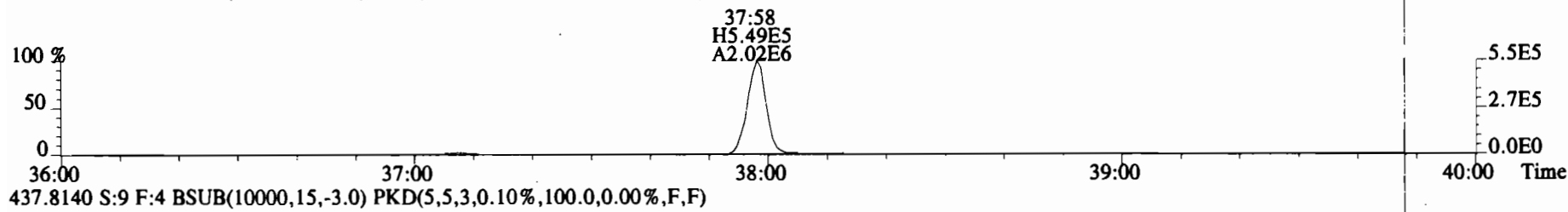
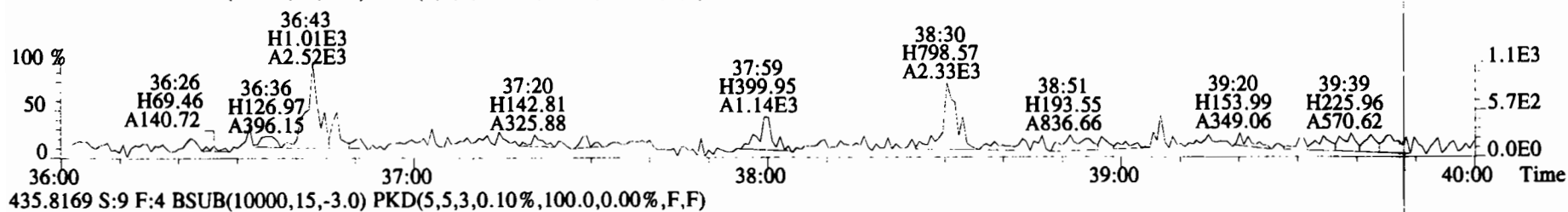
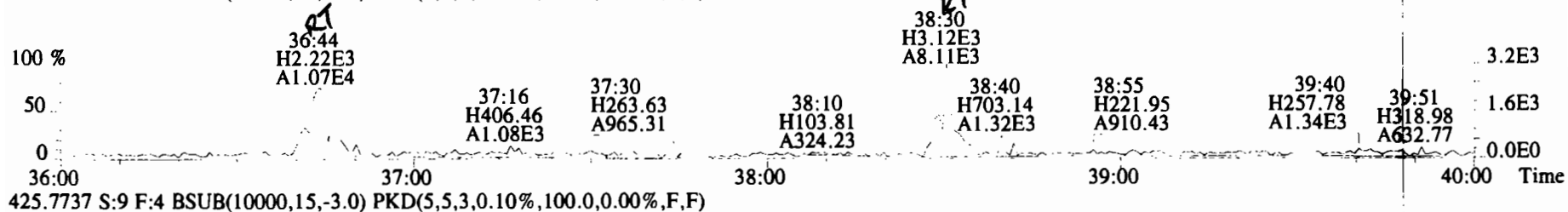
File:191028D1 #1-384 Acq:28-OCT-2019 18:36:41 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#9 File Text:Viata Analytical Laboratory\_VG7 Text:1903655-04 PDI-FB-1910101246 1.03397 Exp:OCDD\_DB5  
 389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



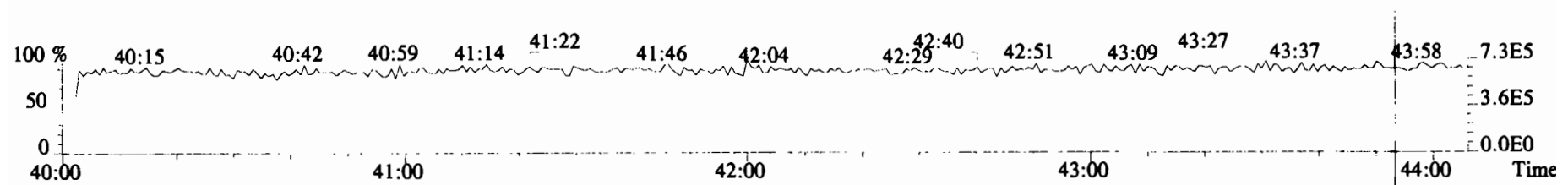
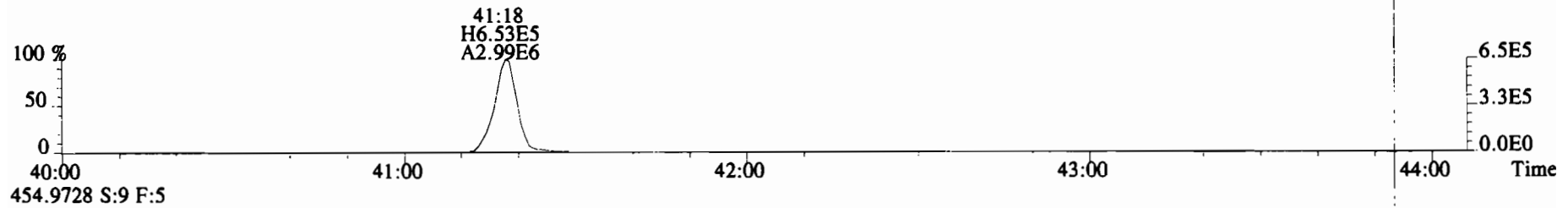
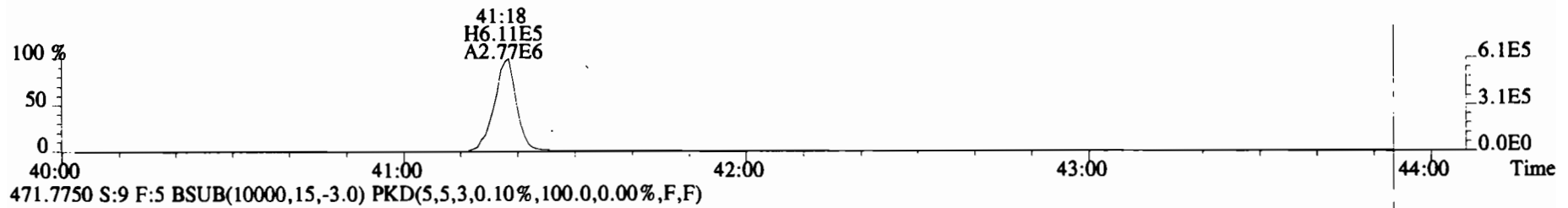
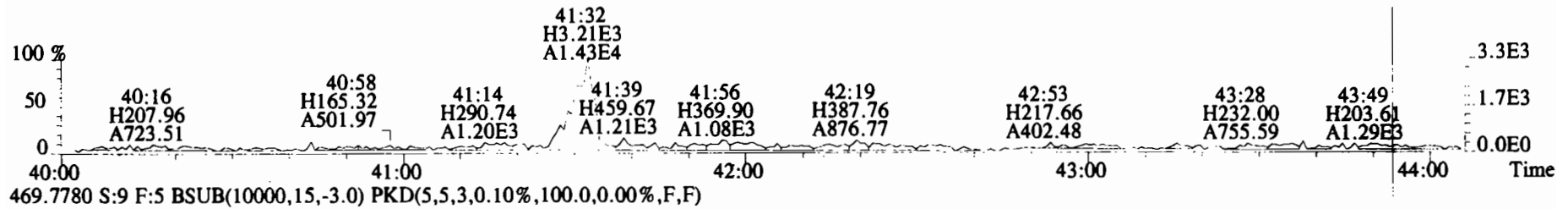
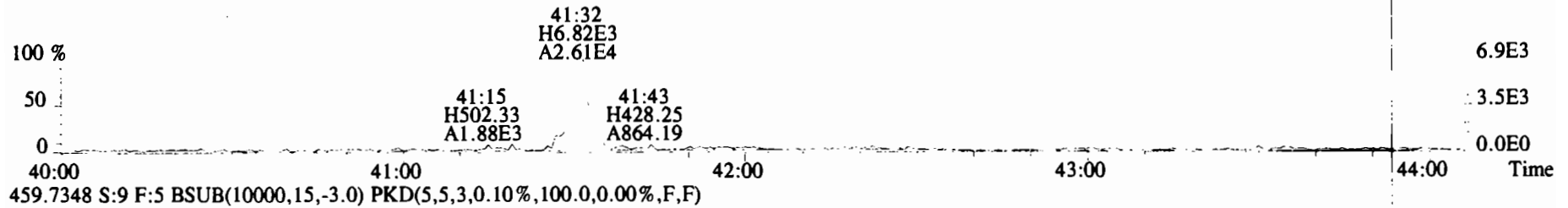
File:191028D1 #1-384 Acq:28-OCT-2019 18:36:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Viata Analytical Laboratory VG7 Text:1903655-04 PDI-FB-1910101246 1.03397 Exp:OCDD\_DB5  
401.8559 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



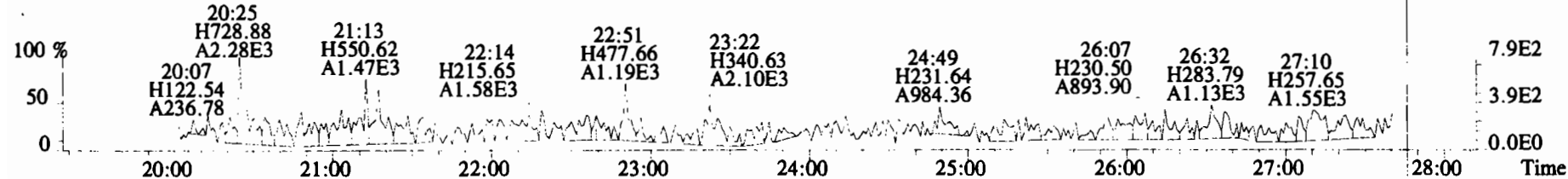
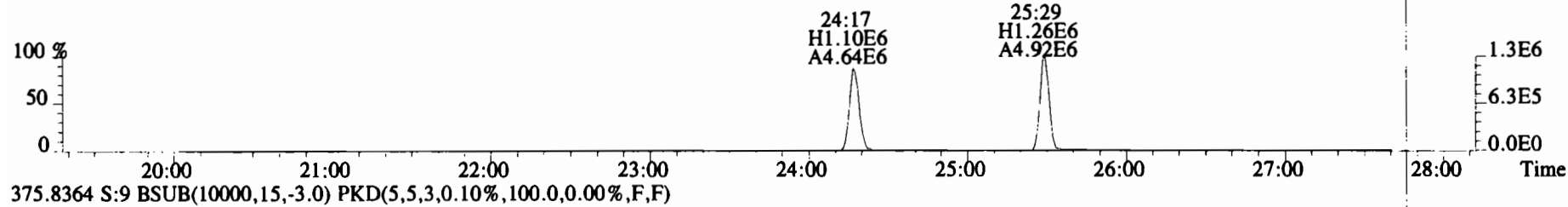
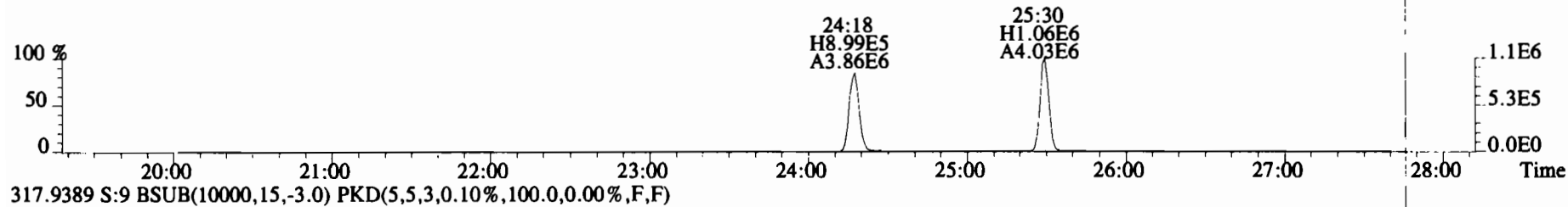
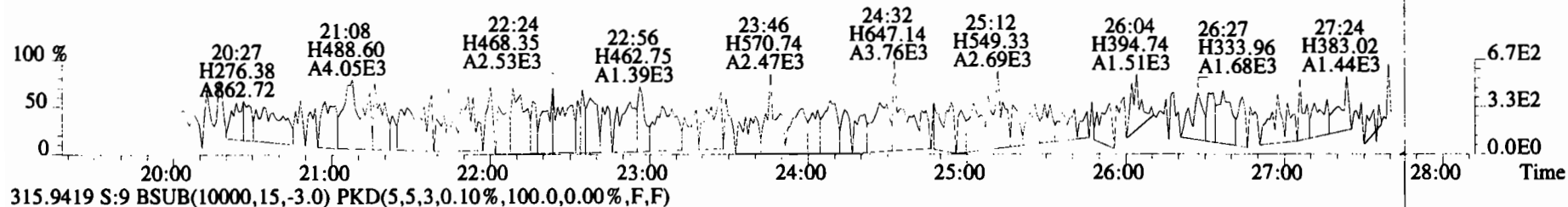
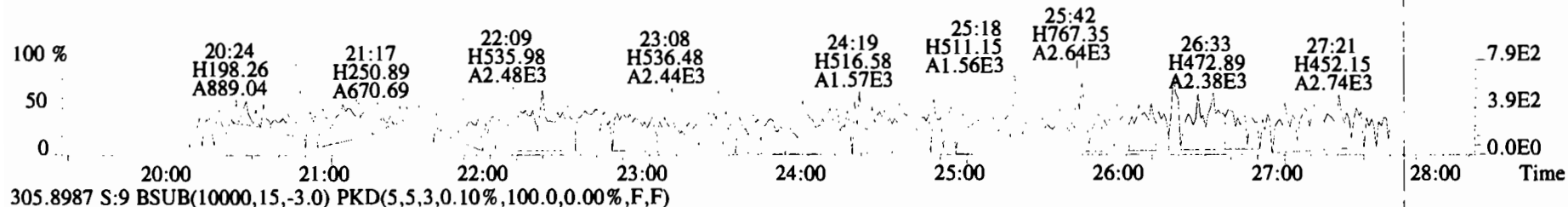
File: I91028D1 #1-356 Acq: 28-OCT-2019 18:36:41 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#9 File Text: Viata\_Analytical\_Laboratory\_VG7 Text: 1903655-04 PDI-FB-1910101246 1.03397 Exp: OCDD\_DB5  
 423.7767 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



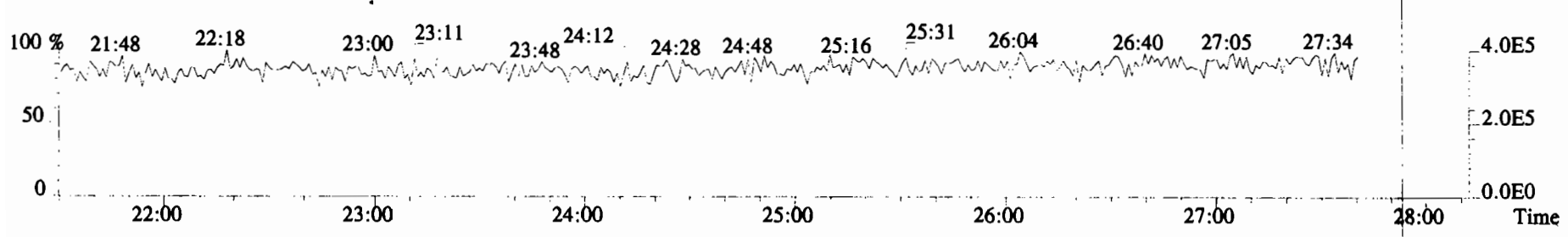
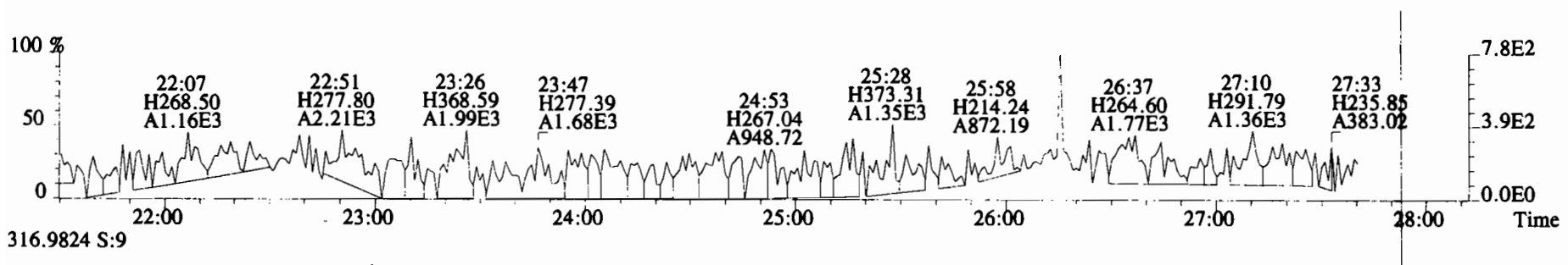
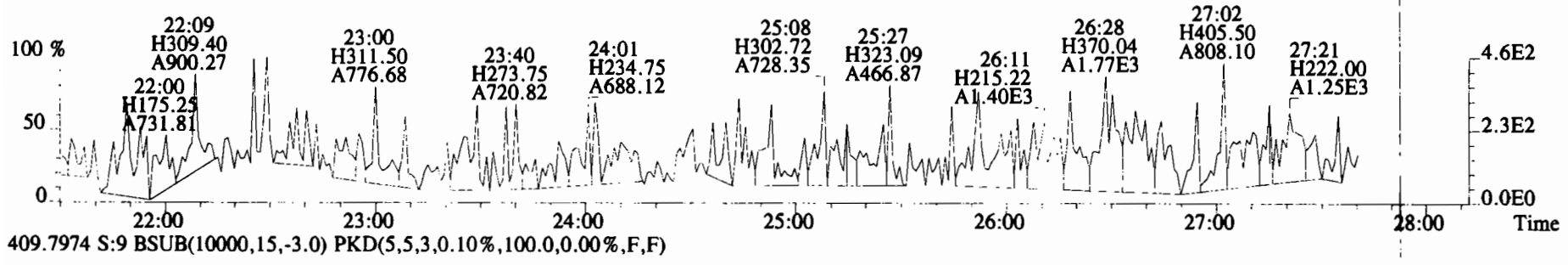
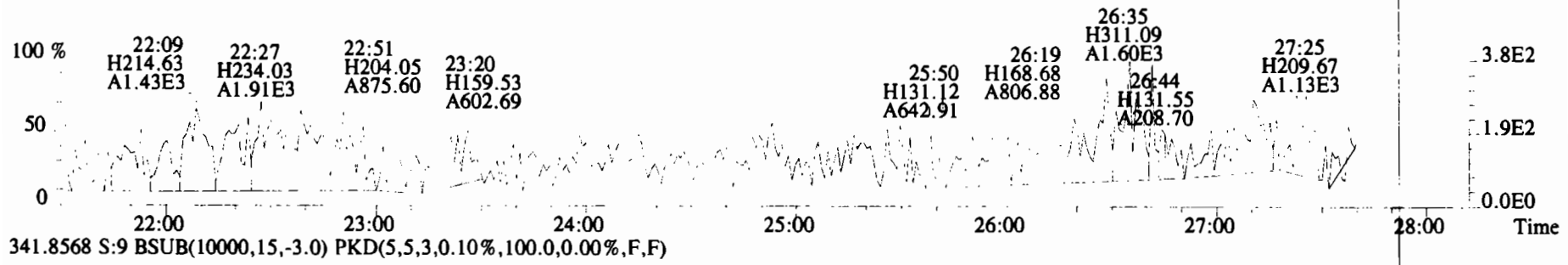
File:191028D1 #1-431 Acq:28-OCT-2019 18:36:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:1903655-04 PDI-FB-1910101246 1.03397 Exp:OCDD\_DB5  
457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191028D1 #1-492 Acq:28-OCT-2019 18:36:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:1903655-04 PDI-FB-1910101246 1.03397 Exp:OCDD\_DB5  
303.9016 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

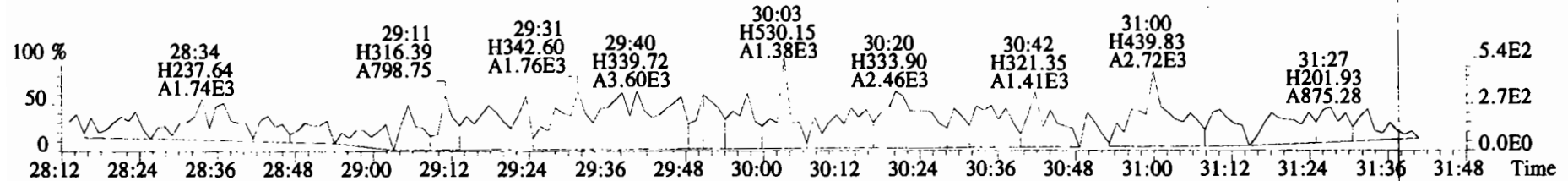
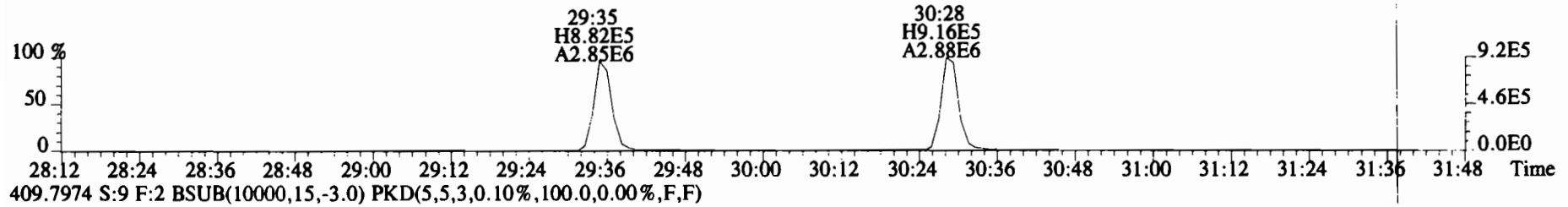
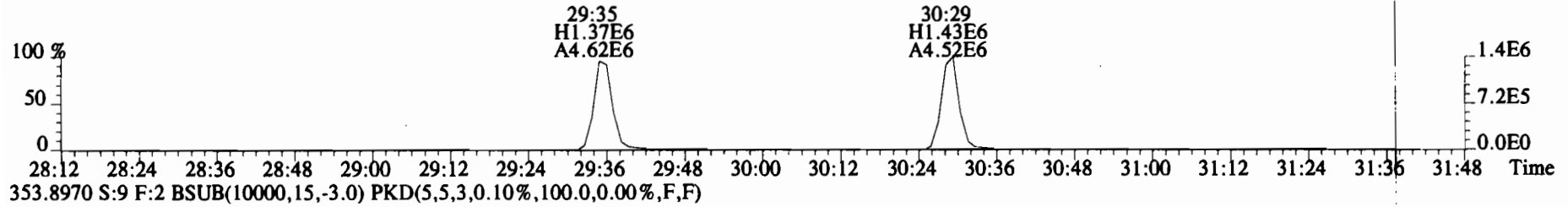
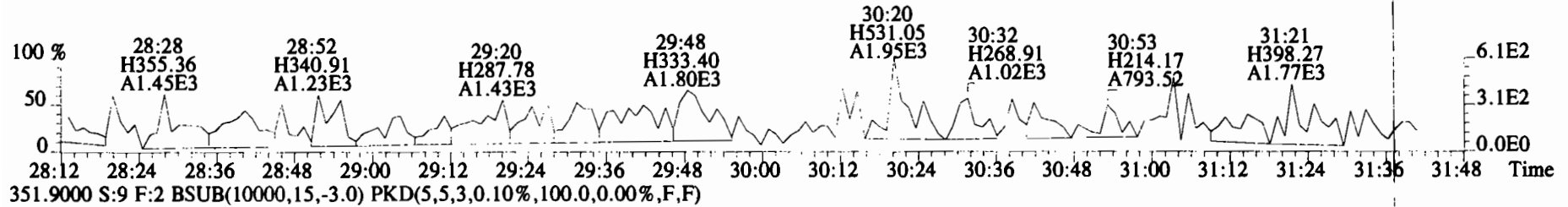
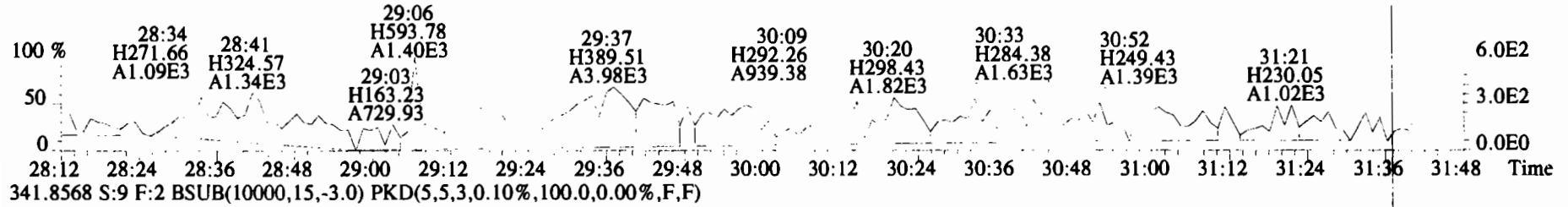


File:191028D1 #1-492 Acq:28-OCT-2019 18:36:41 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#9 File Text:Viata Analytical Laboratory VG7 Text:1903655-04 PDI-FB-1910101246 1.03397 Exp:OCDD\_DB5  
 339.8597 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

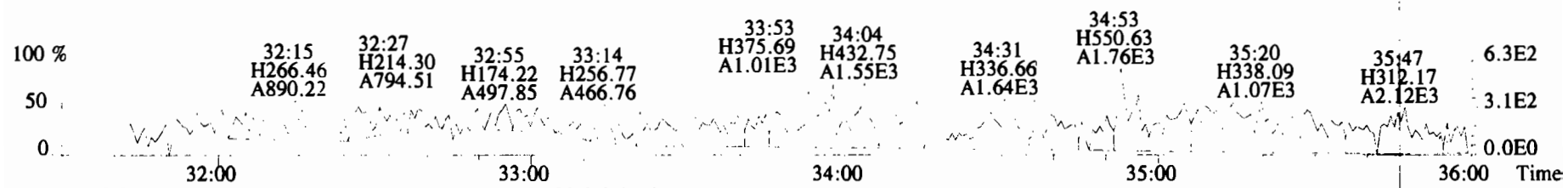




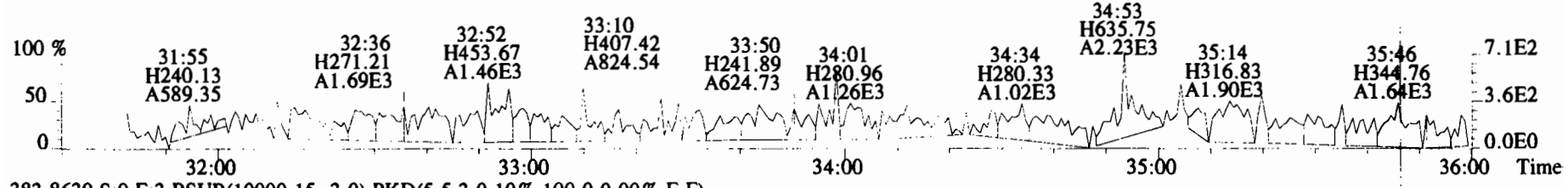
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 Sample#9 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:1903655-04 PDI-FB-1910101246 1.03397 Exp:OCDD\_DB5  
 339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



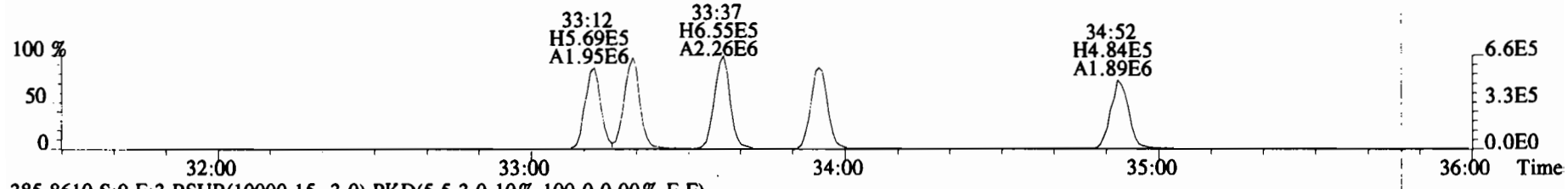
File:191028D1 #1-384 Acq:28-OCT-2019 18:36:41 GC EI+ Voltage SIR Autospec-UltimaE  
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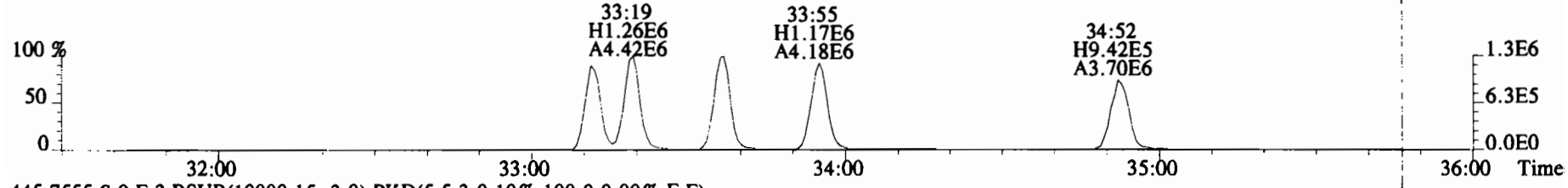
375.8178 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



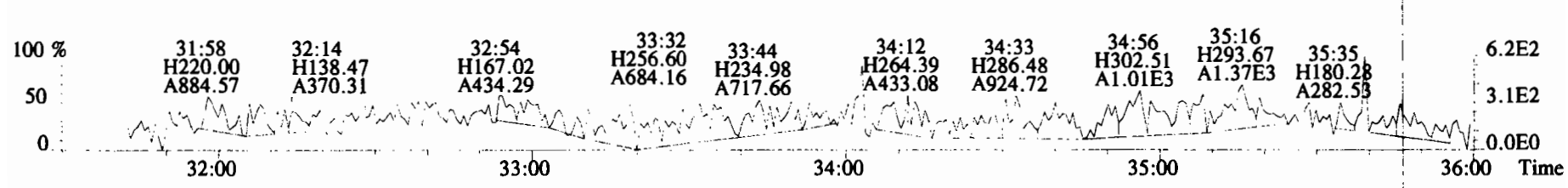
383.8639 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



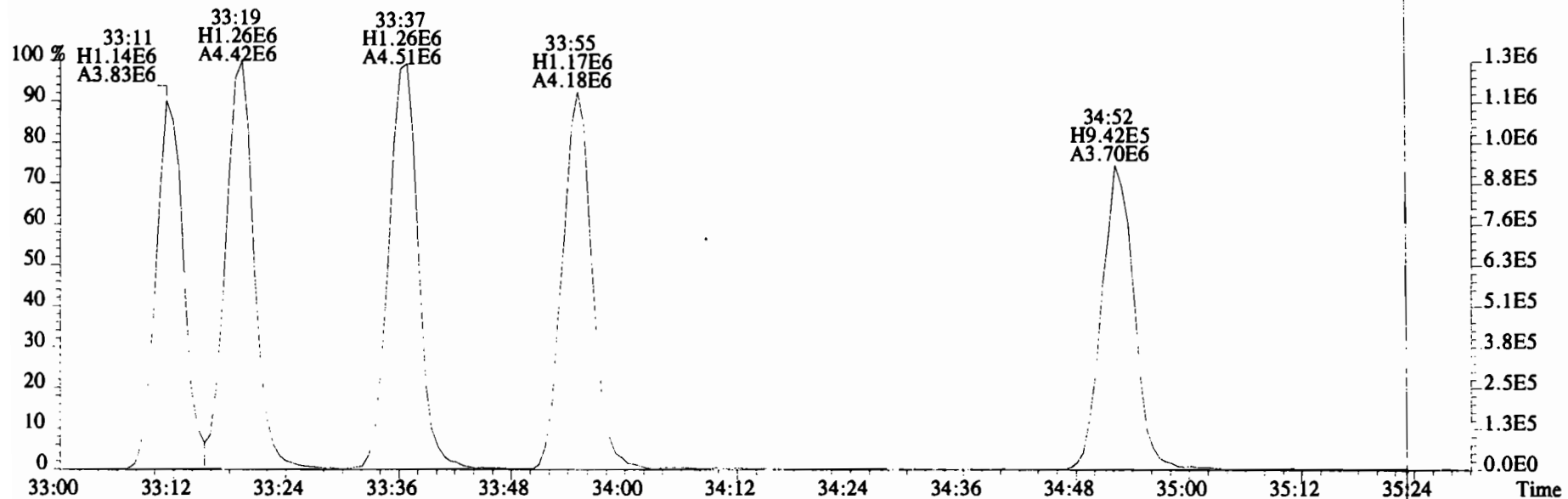
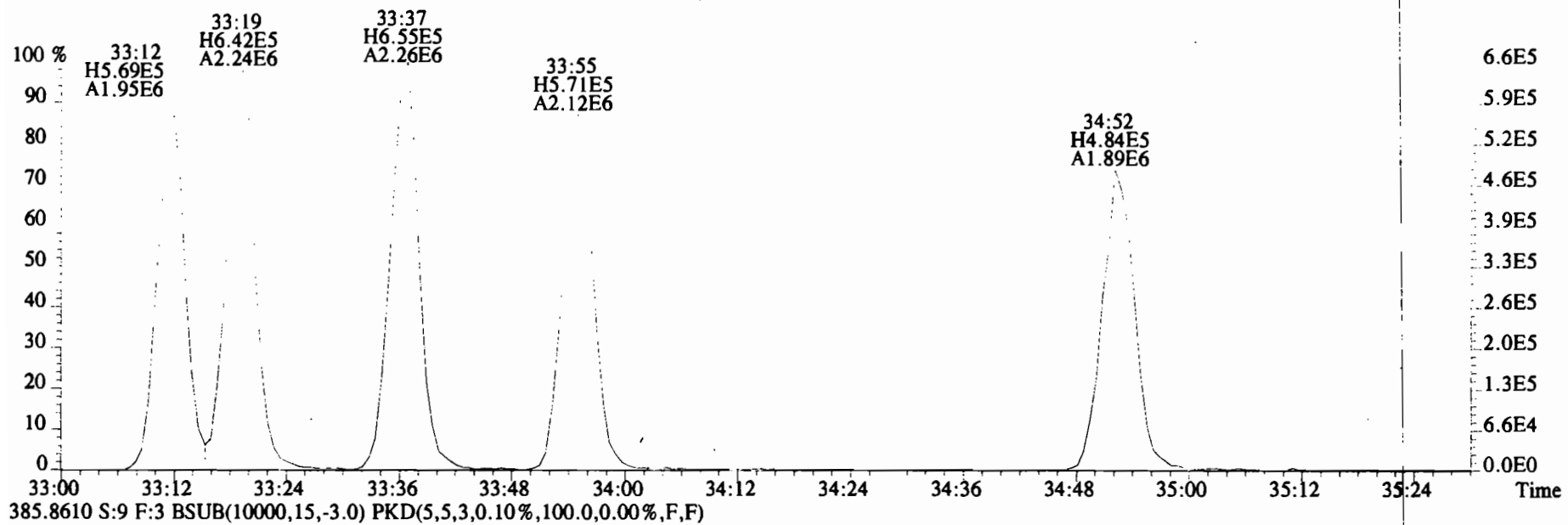
385.8610 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



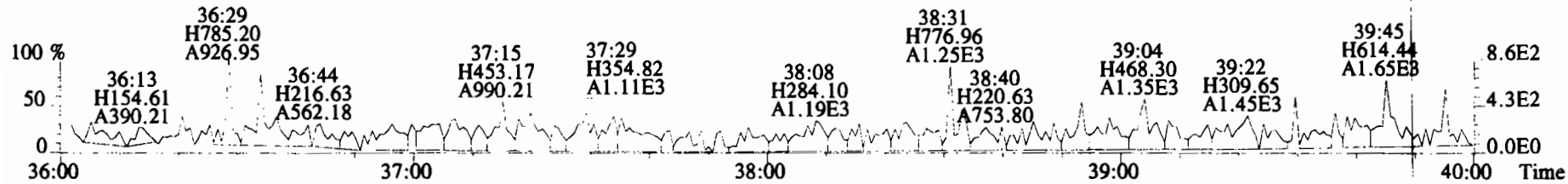
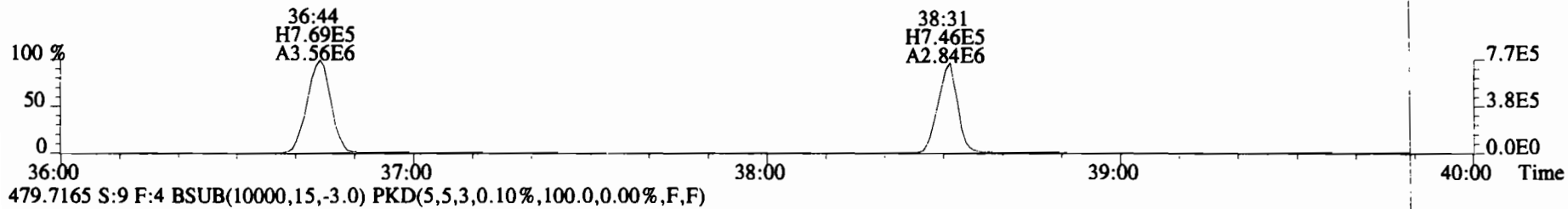
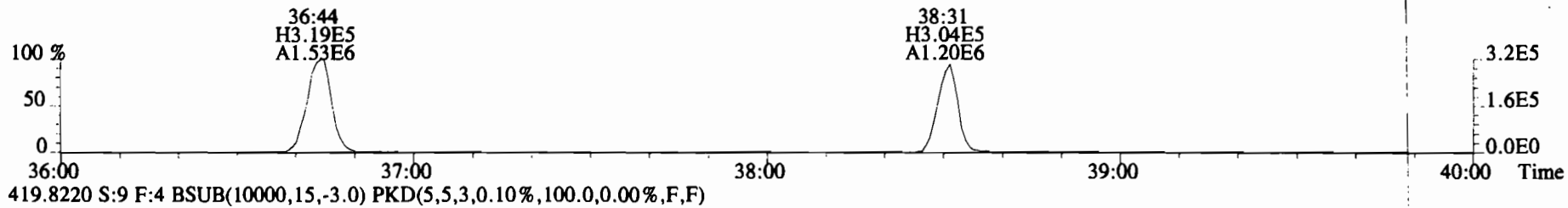
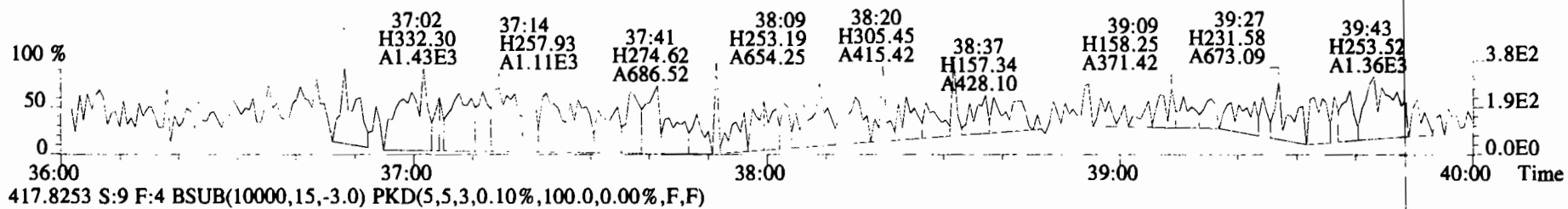
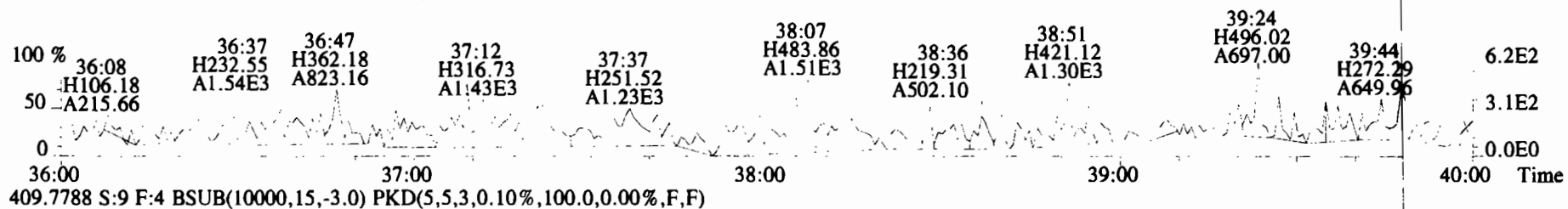
445.7555 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



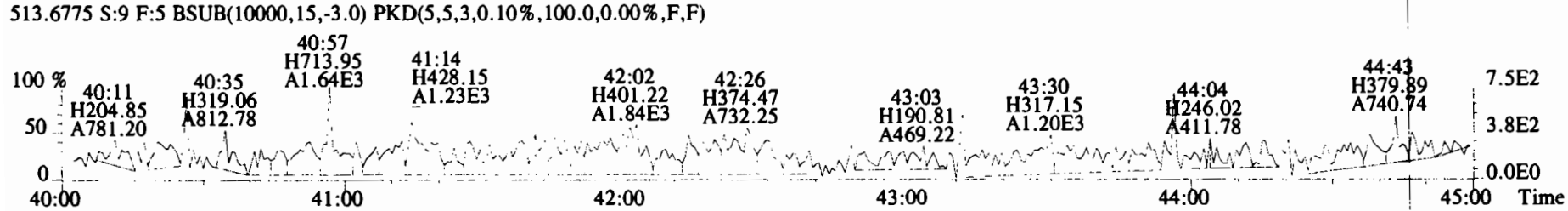
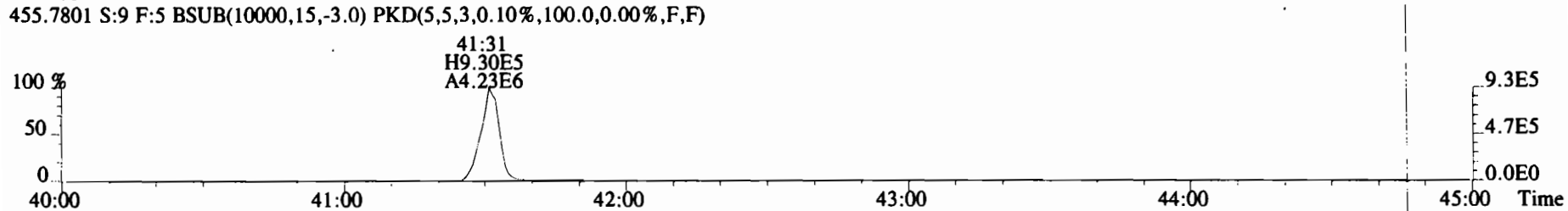
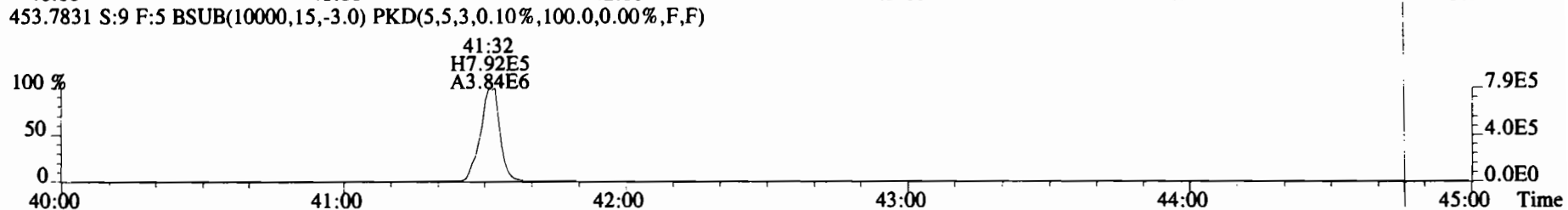
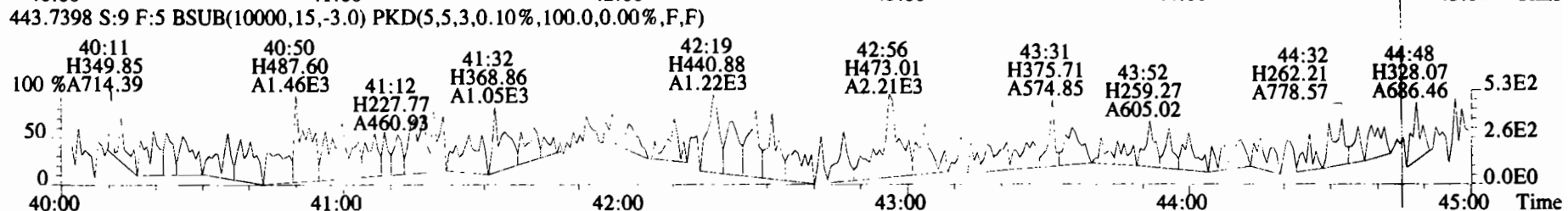
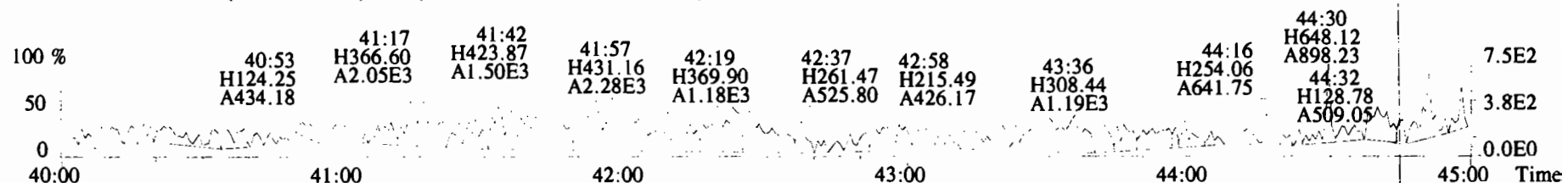
File:191028D1 #1-384 Acq:28-OCT-2019 18:36:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Viata Analytical Laboratory VG7 Text:1903655-04 PDI-FB-1910101246 1.03397 Exp:OCDD\_DB5  
383.8639 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191028D1 #1-356 Acq:28-OCT-2019 18:36:41 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#9 File Text:Viata Analytical Laboratory\_VG7 Text:1903655-04 PDI-FB-1910101246 1.03397 Exp:OCDD\_DB5  
 407.7818 S:9 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191028DI #1-431 Acq:28-OCT-2019 18:36:41 GC EI+ Voltage: SIR Autospec-UltimaE  
 Sample#9 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:1903655-04 PDI-FB-1910101246 1.03397 Exp:OCDD\_DB5  
 441.7428 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL
2,3,7,8-TCDD	*	* n	0.91	Not Fñ	*		134	2.5	0.758
1,2,3,7,8-PeCDD	*	* n	0.90	Not Fñ	*		112	2.5	0.626
1,2,3,4,7,8-HxCDD	*	* n	1.10	Not Fñ	*		130	2.5	1.22
1,2,3,6,7,8-HxCDD	*	* n	0.94	Not Fñ	*		130	2.5	1.34
1,2,3,7,8,9-HxCDD	*	* n	0.96	Not Fñ	*		130	2.5	1.37
1,2,3,4,6,7,8-HpCDD	*	* n	0.98	Not Fñ	*		153	2.5	1.81
OCDD	*	* n	0.96	Not Fñ	*		107	2.5	2.23
2,3,7,8-TCDF	*	* n	0.95	Not Fñ	*		138	2.5	0.510
1,2,3,7,8-PeCDF	*	* n	0.96	Not Fñ	*		162	2.5	0.871
2,3,4,7,8-PeCDF	*	* n	1.01	Not Fñ	*		162	2.5	0.744
1,2,3,4,7,8-HxCDF	*	* n	1.18	Not Fñ	*		107	2.5	0.432
1,2,3,6,7,8-HxCDF	*	* n	1.07	Not Fñ	*		107	2.5	0.410
2,3,4,6,7,8-HxCDF	*	* n	1.11	Not Fñ	*		107	2.5	0.457
1,2,3,7,8,9-HxCDF	*	* n	1.06	Not Fñ	*		107	2.5	0.608
1,2,3,4,6,7,8-HpCDF	*	* n	1.13	Not Fñ	*		122	2.5	0.871
1,2,3,4,7,8,9-HpCDF	*	* n	1.28	Not Fñ	*		122	2.5	0.805
OCDF	*	* n	0.95	Not Fñ	*		120	2.5	1.75

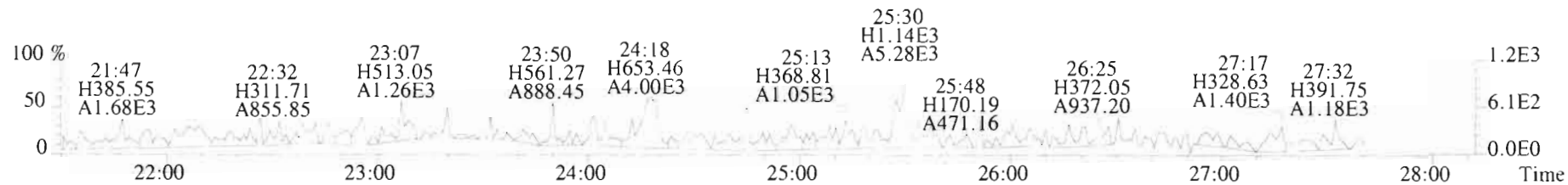
Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	*	*		134	0.758
Total Penta-Dioxins	*	*		112	0.626
Total Hexa-Dioxins	*	*		130	1.32
Total Hepta-Dioxins	*	*		153	1.81
Total Tetra-Furans	*	*		138	0.510
Total Penta-Furans	0.0000	0.0000		162	0.805
Total Hexa-Furans	*	*		107	0.472
Total Hepta-Furans	*	*		122	0.841

IS	Conc	Qual	Rec
13C-2,3,7,8-TCDD	6.02e+06	0.77 y	100
13C-1,2,3,7,8-PeCDD	4.85e+06	0.63 y	100
13C-1,2,3,4,7,8-HxCDD	4.03e+06	1.32 y	88.3
13C-1,2,3,6,7,8-HxCDD	4.63e+06	1.28 y	76.1
13C-1,2,3,7,8,9-HxCDD	4.40e+06	1.22 y	76.7
13C-1,2,3,4,6,7,8-HpCDD	3.29e+06	1.04 y	70.8
13C-OCDD	4.57e+06	0.94 y	55.4
13C-2,3,7,8-TCDF	9.74e+06	0.79 y	99.7
13C-1,2,3,7,8-PeCDF	7.74e+06	1.61 y	95.9
13C-2,3,4,7,8-PeCDF	7.88e+06	1.58 y	98.5
13C-1,2,3,4,7,8-HxCDF	5.45e+06	0.50 y	92.2
13C-1,2,3,6,7,8-HxCDF	6.43e+06	0.51 y	87.4
13C-2,3,4,6,7,8-HxCDF	6.03e+06	0.50 y	89.0
13C-1,2,3,7,8,9-HxCDF	5.46e+06	0.51 y	92.7
13C-1,2,3,4,6,7,8-HpCDF	4.27e+06	0.44 y	79.3
13C-1,2,3,4,7,8,9-HpCDF	3.43e+06	0.43 y	82.9
13C-OCDF	6.35e+06	0.91 y	64.8
C/Up 37C1-2,3,7,8-TCDD	2.53e+06	1.20	96.0
RS/RT 13C-1,2,3,4-TCDD	5.49e+06	0.79 y	1998.4
RS 13C-1,2,3,4-TCDF	9.44e+06	0.83 y	1998.4
RS/RT 13C-1,2,3,4,6,9-HxCDF	7.11e+06	0.51 y	1998.4

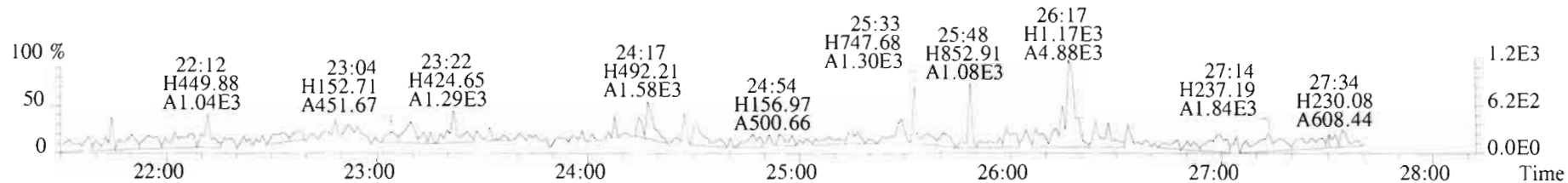
Rec Qual

Integrations Reviewed  
 by DB by CT  
 Analyst: DB Analyst: CT  
 Date: 10/29/19 Date: 11/05/19

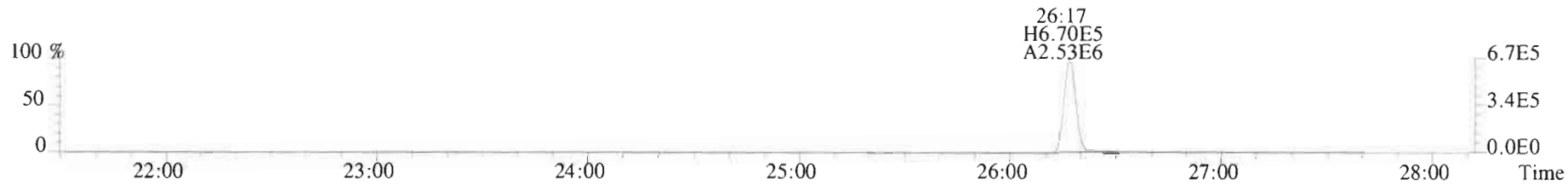
File:191028D1 #1-492 Acq:28-OCT-2019 19:24:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Viata Analytical Laboratory\_VG7 Text:1903655-05 PDI-RB-1910101241 1.00082 Exp:OCDD\_DB5  
319.8965 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



321.8936 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



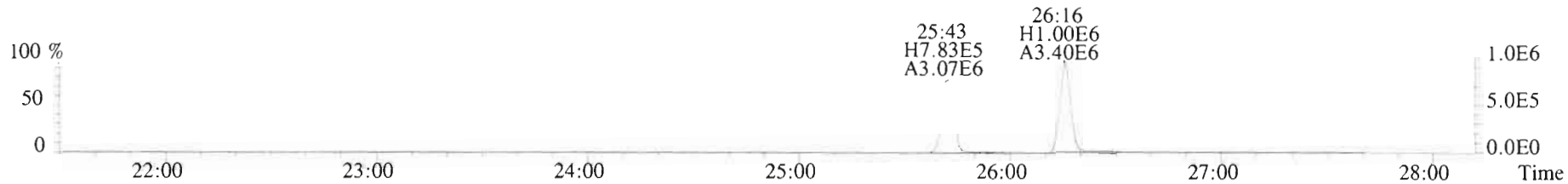
327.8847 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



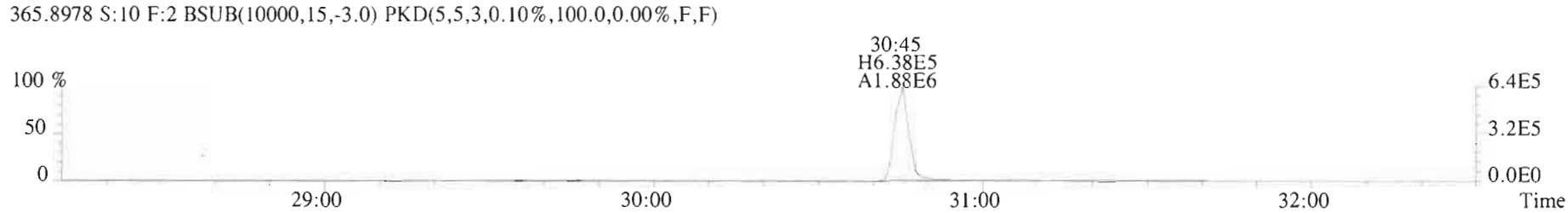
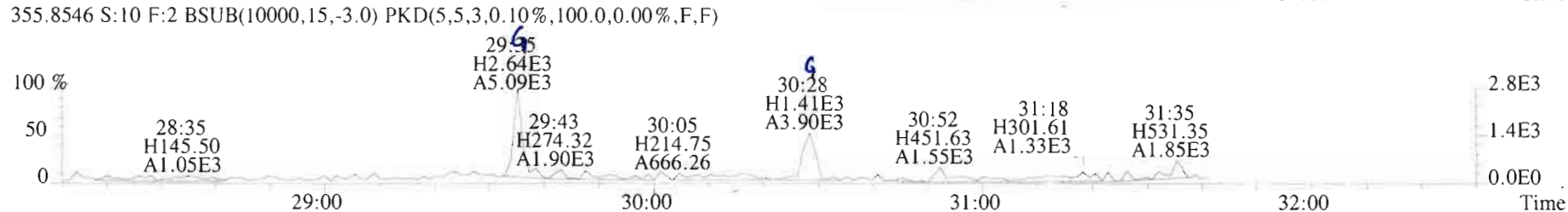
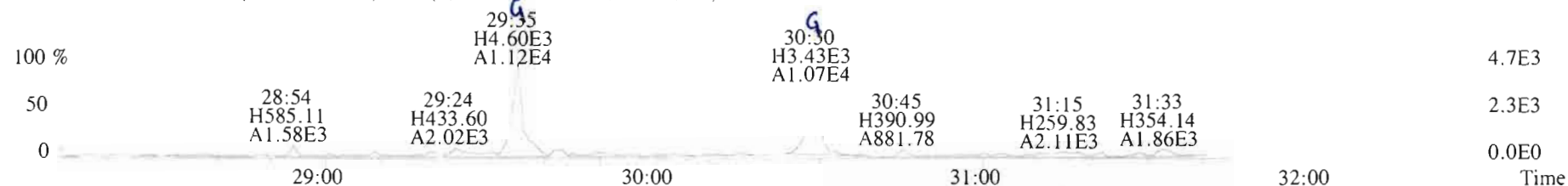
331.9368 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



333.9339 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

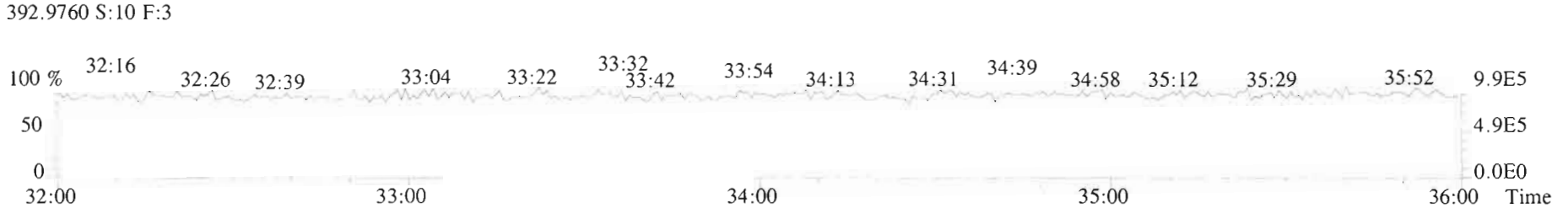
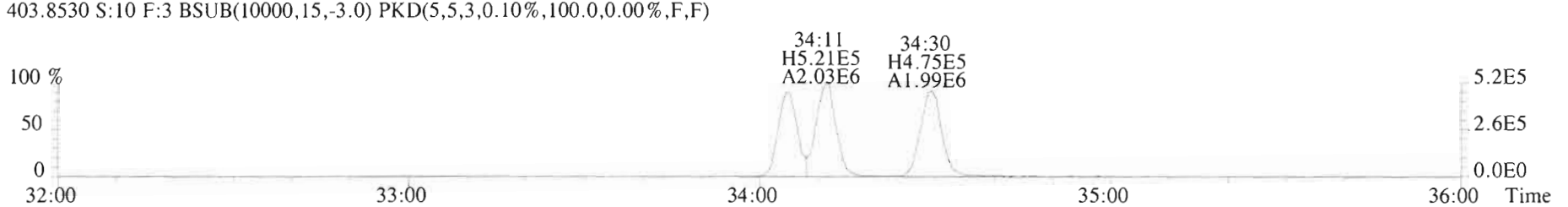
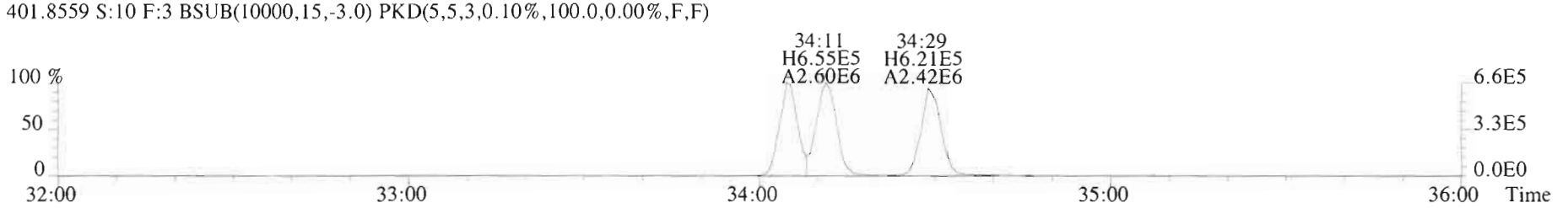
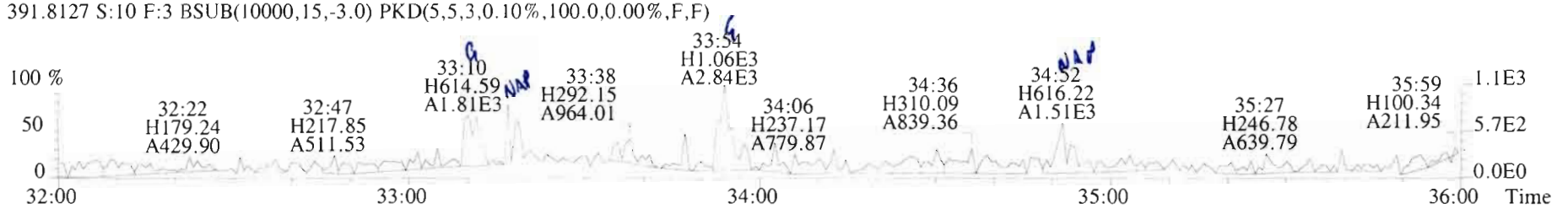
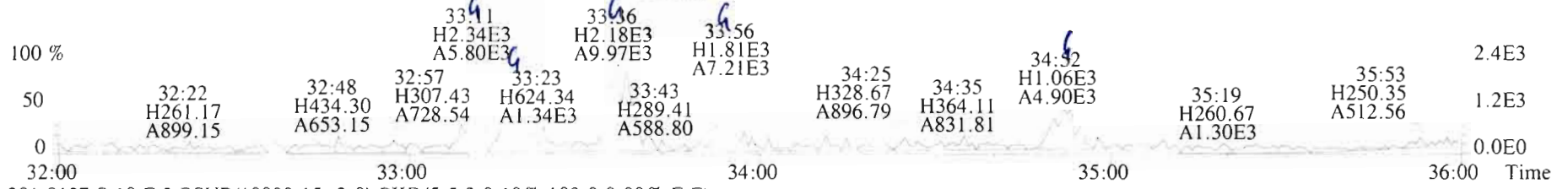


File:191028D1 #1-211 Acq:28-OCT-2019 19:24:29 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Viata Analytical Laboratory\_VG7 Text:1903655-05 PDI-RB-1910101241 1.00082 Exp:OCDD\_DB5  
 353.8576 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

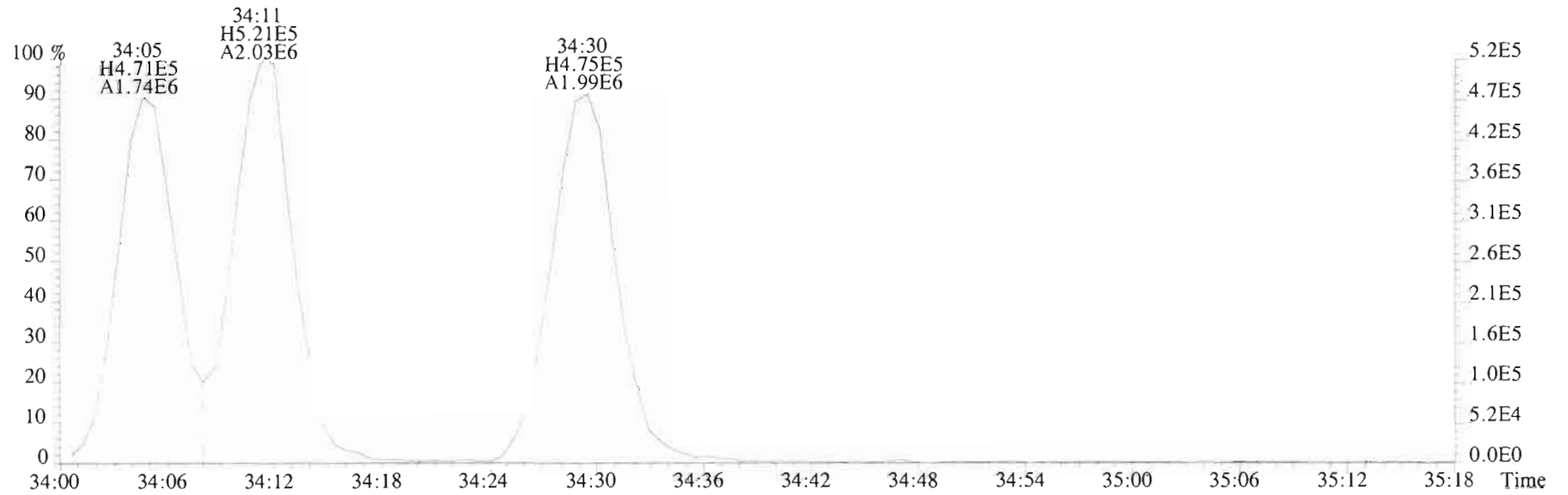
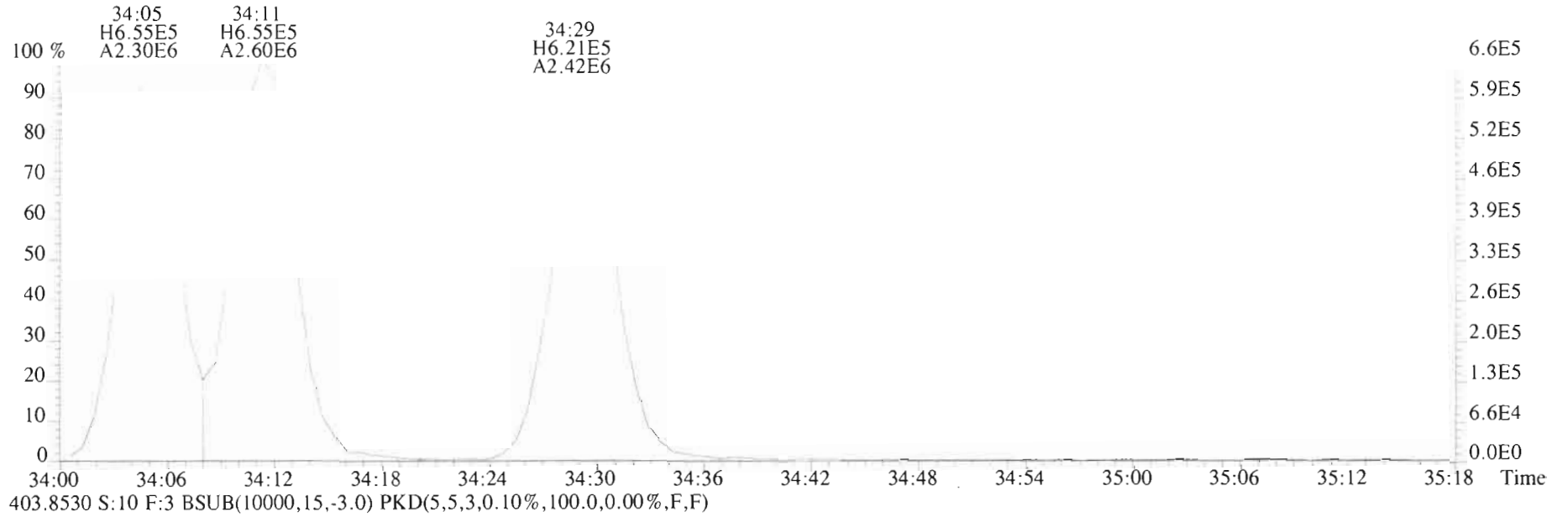




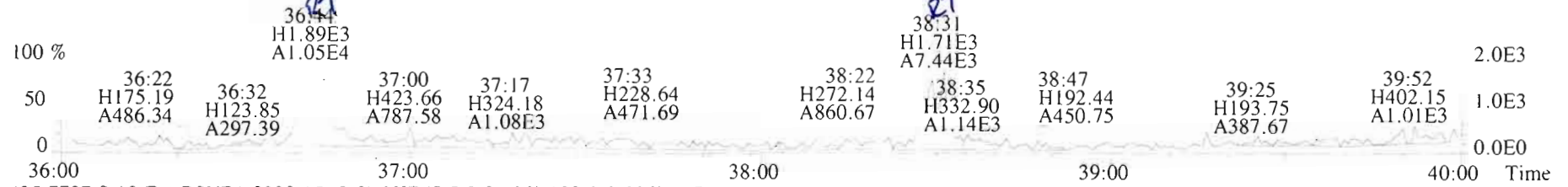
File:191028D1 #1-384 Acq:28-OCT-2019 19:24:29 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:1903655-05 PDI-RB-1910101241 1.00082 Exp:OCDD\_DB5  
 389.8156 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



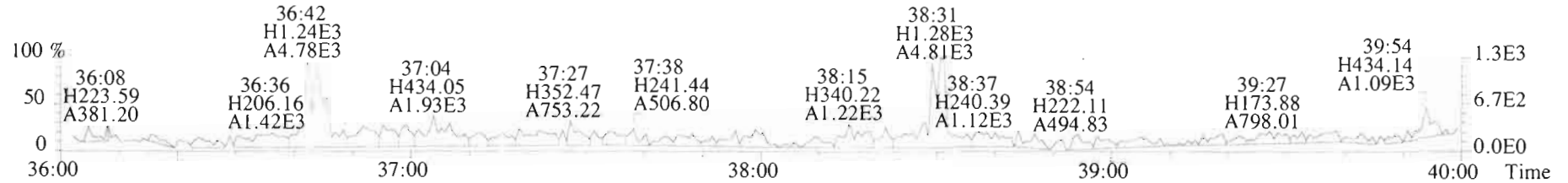
File:191028D1 #1-384 Acq:28-OCT-2019 19:24:29 GC I+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Viata Analytical Laboratory\_VG7 Text:1903655-05 PDI-RB-1910101241 1.00082 Exp:OCDD\_DB5  
 401.8559 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



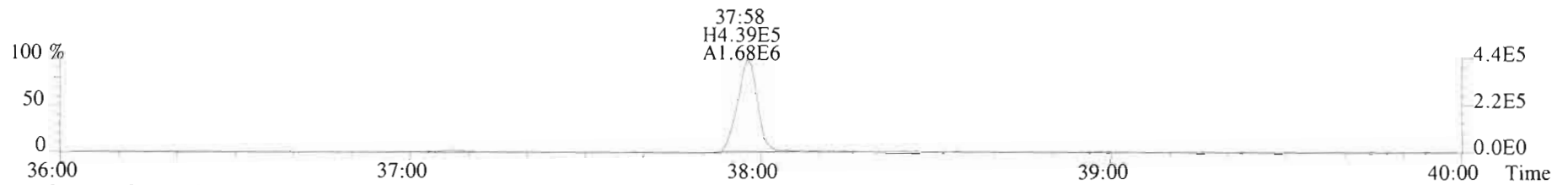
File:191028D1 #1-355 Acq:28-OCT-2019 19:24:29 GC EI+ Voltage SIR Autospec-UltimaF  
Sample#10 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:1903655-05 PDI-RB-1910101241 1.00082 Exp:OCDD\_DB5  
423.7767 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



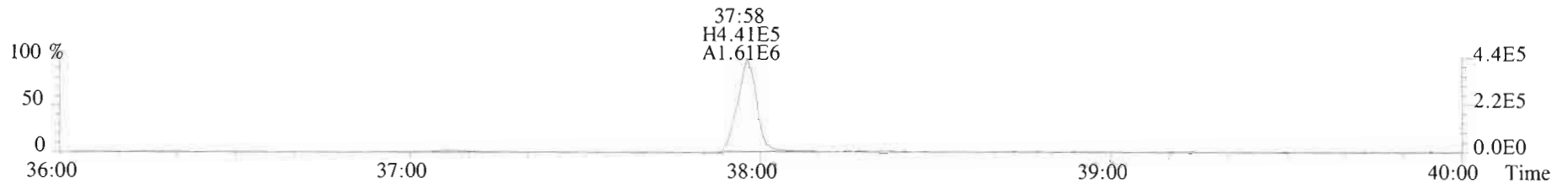
425.7737 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



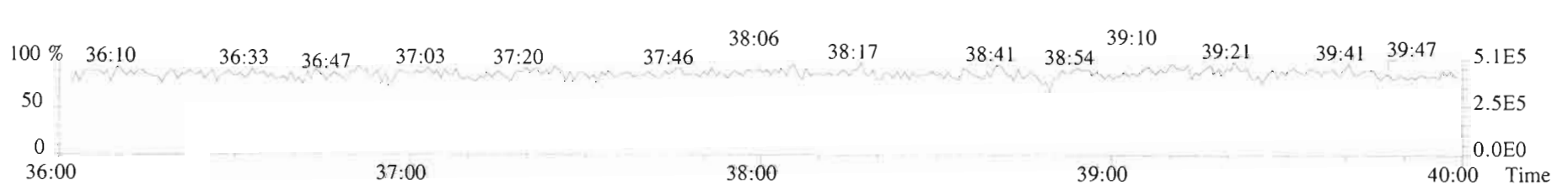
435.8169 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



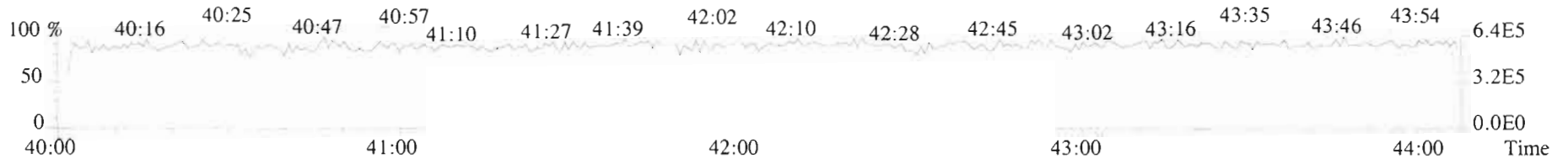
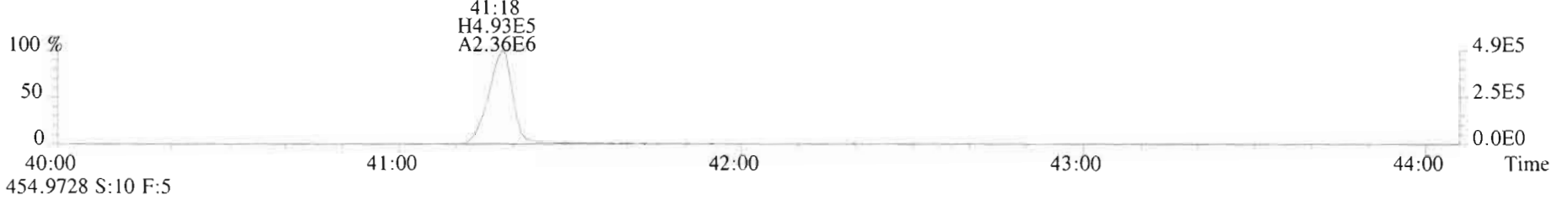
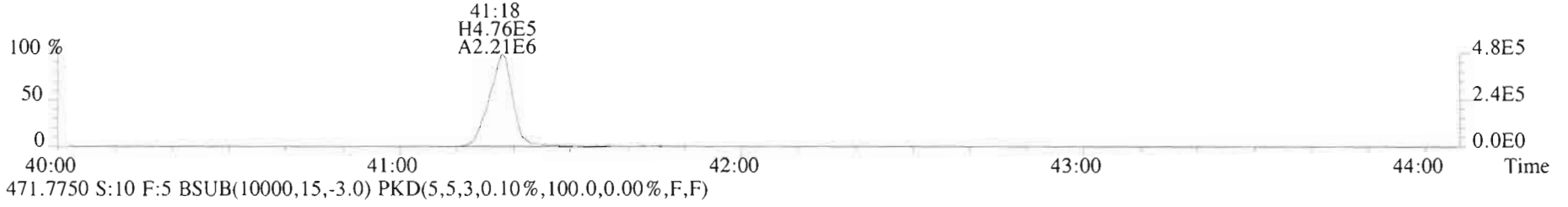
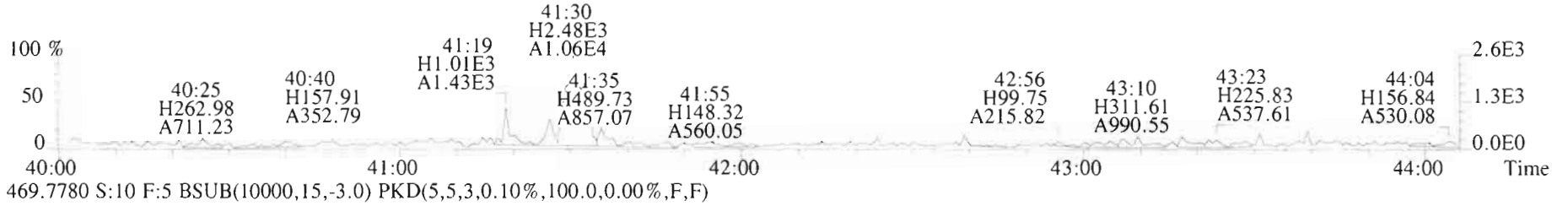
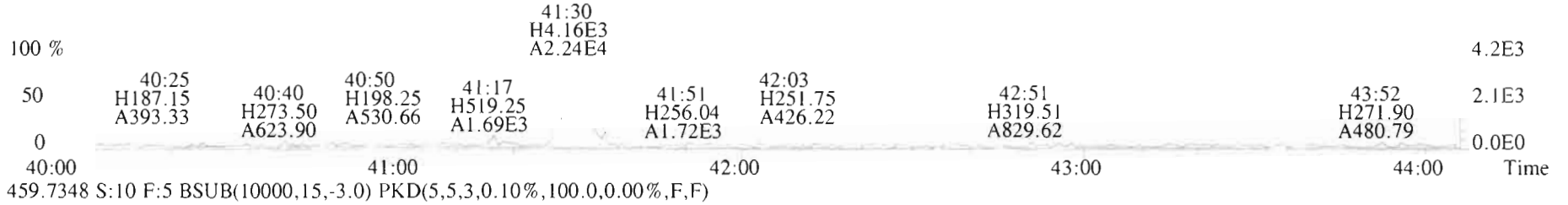
437.8140 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



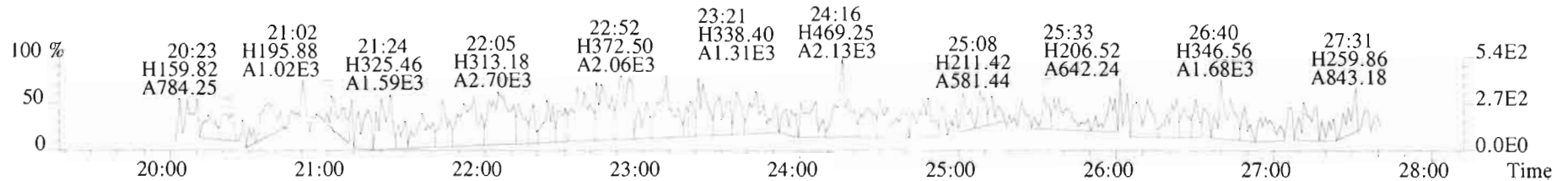
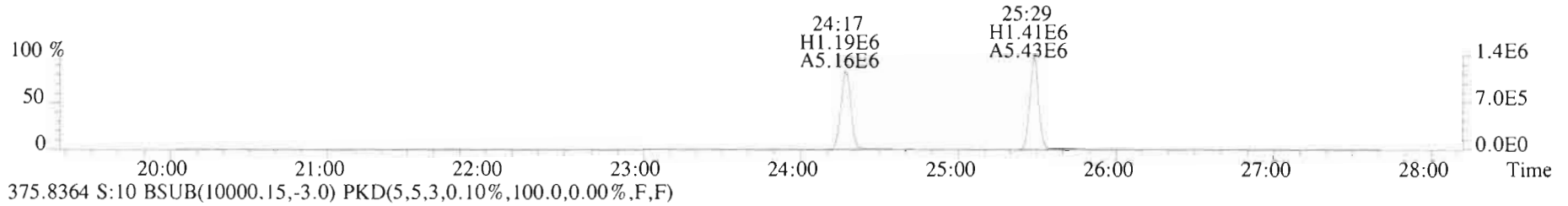
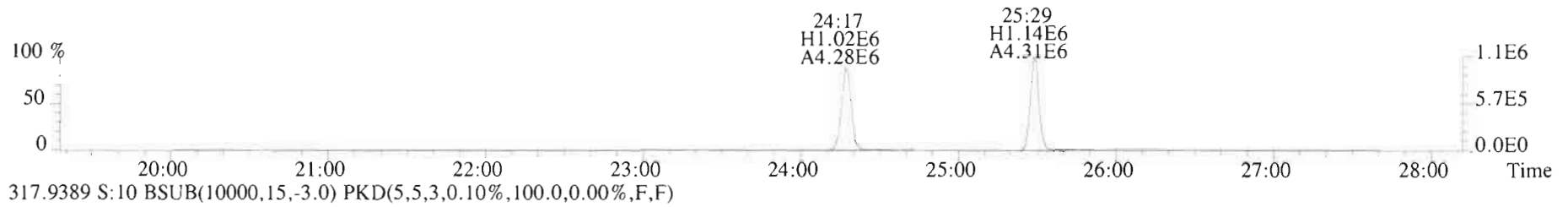
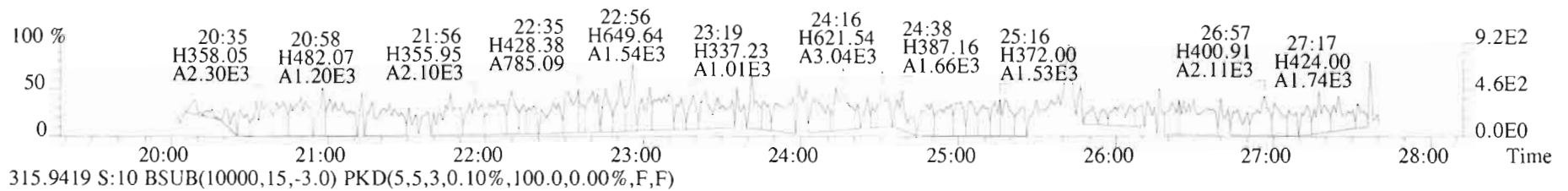
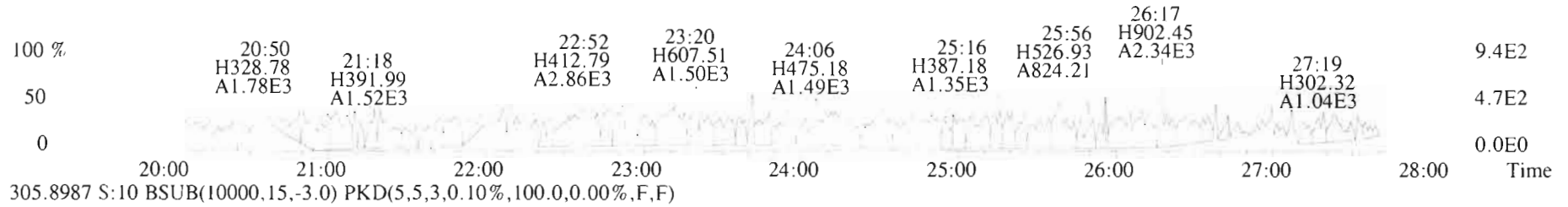
454.9728 S:10 F:4



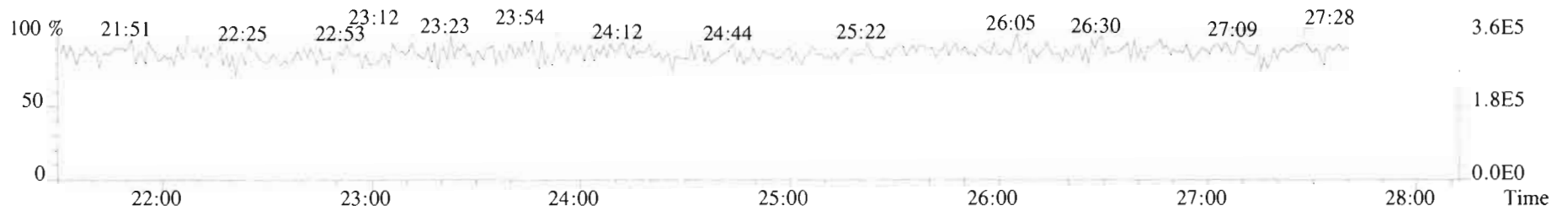
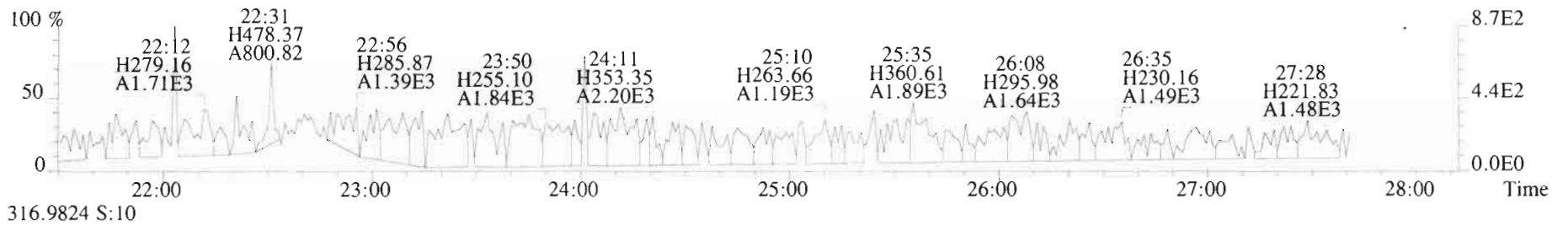
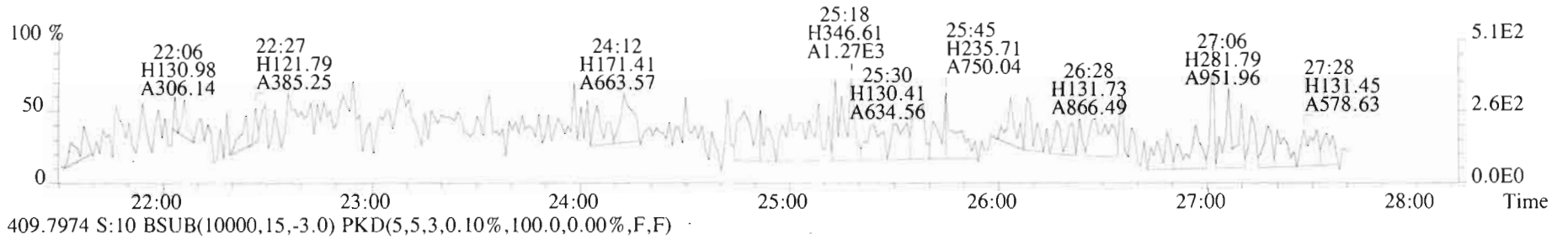
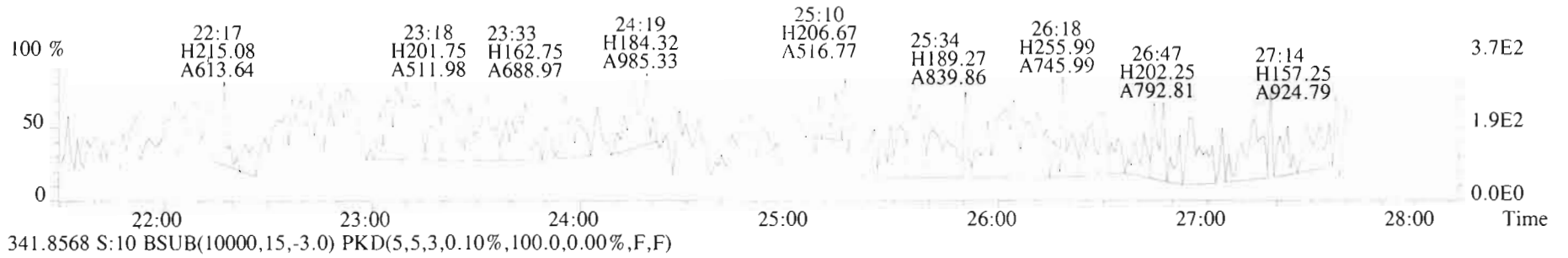
File:191028D1 #1-432 Acq:28-OCT-2019 19:24:29 GC EI+ Voltage: SIR Autospec-UltimaE  
 Sample#10 File Text:Viata Analytical Laboratory\_VG7 Text:1903655-05 PDI-RB-1910101241 1.00082 Exp:OCDD\_DB5  
 457.7377 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



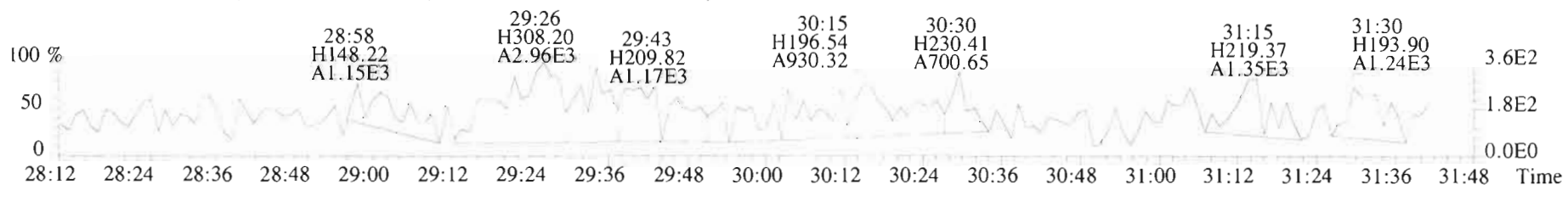
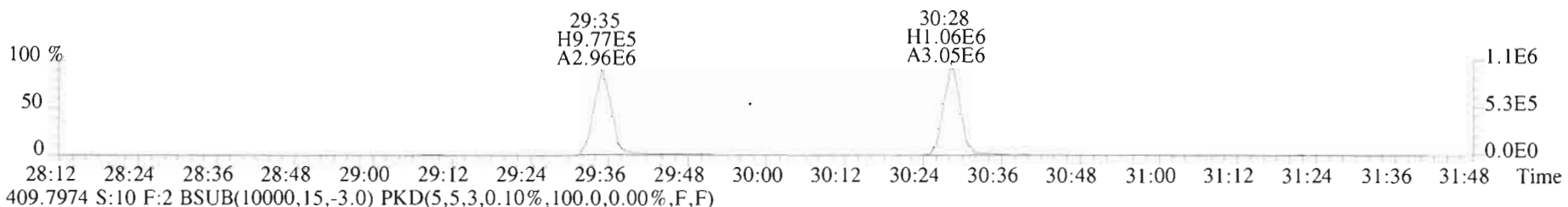
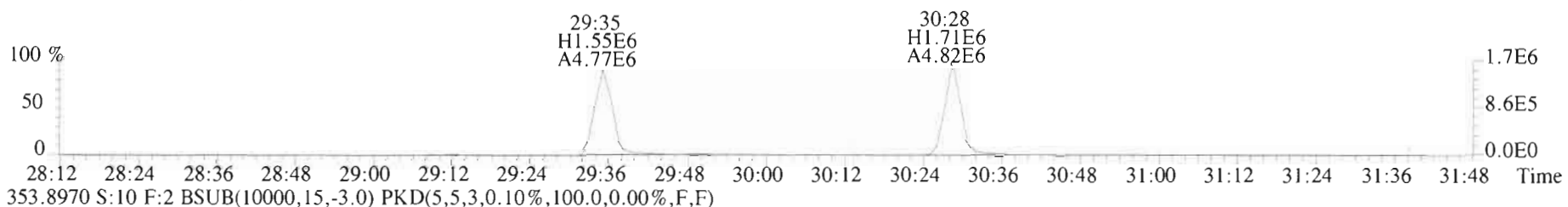
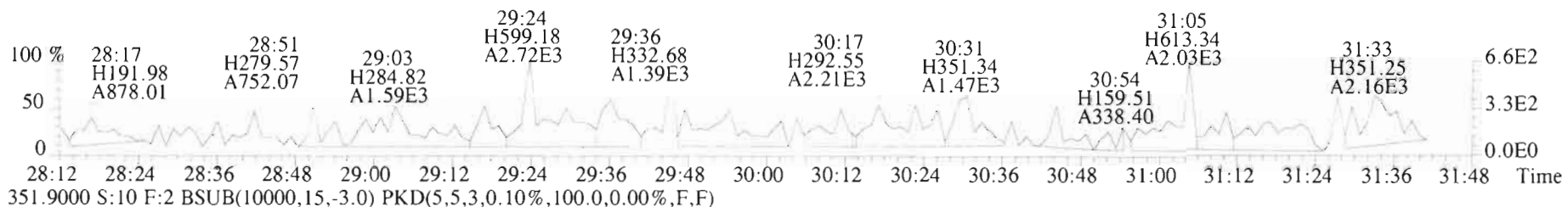
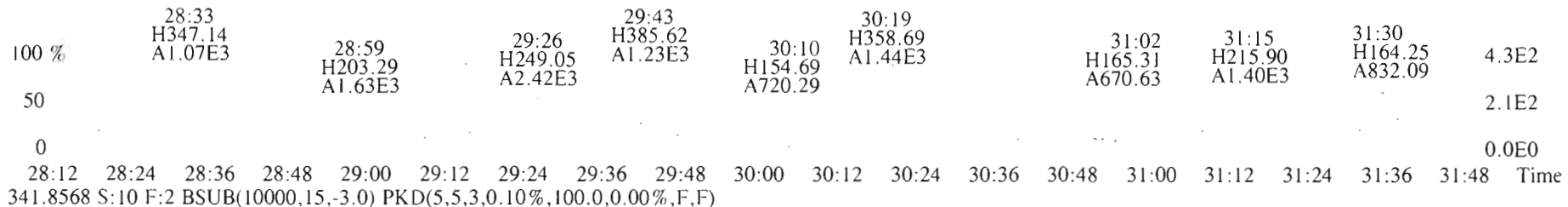
File:191028D1 #1-492 Acq:28-OCT-2019 19:24:29 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Viata Analytical Laboratory\_VG7 Text:1903655-05 PDI-RB-1910101241 1.00082 Exp:OCDD\_DB5  
 303.9016 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



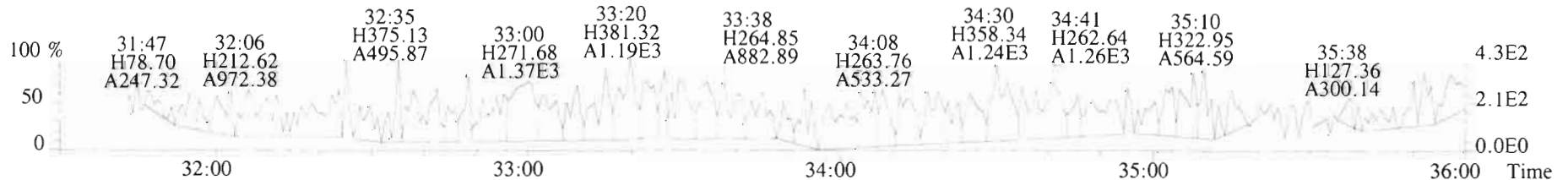
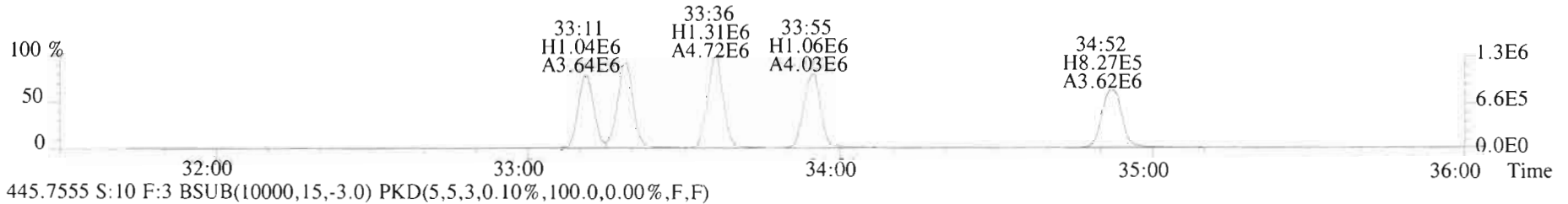
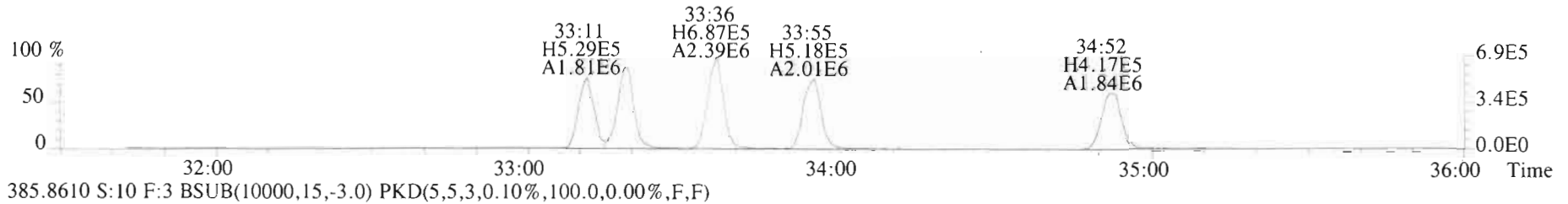
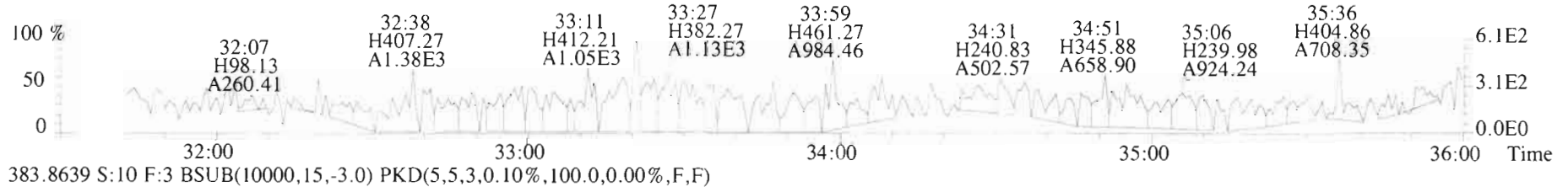
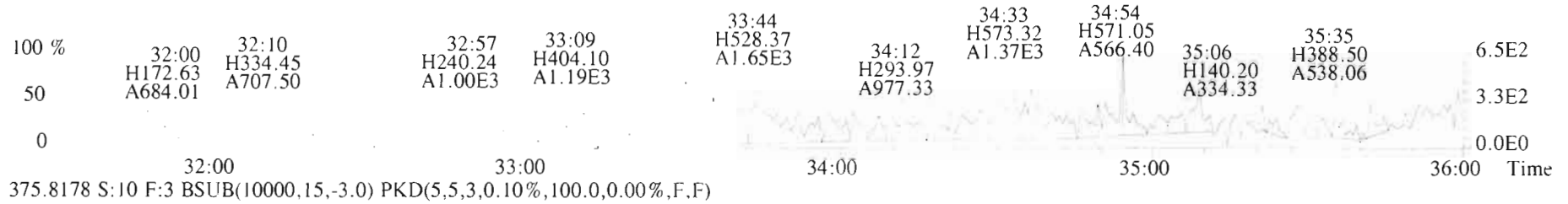
File:191028D1 #1-492 Acq:28-OCT-2019 19:24:29 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Viata Analytical Laboratory\_VG7 Text:1903655-05 PDI-RB-1910101241 1.00082 Exp:OCDD\_DB5  
 339.8597 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191028D1 #1-211 Acq:28-OCT-2019 19:24:29 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Viata Analytical Laboratory VG7 Text:1903655-05 PDI-RB-1910101241 1.00082 Exp:OCDD\_DB5  
 339.8597 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

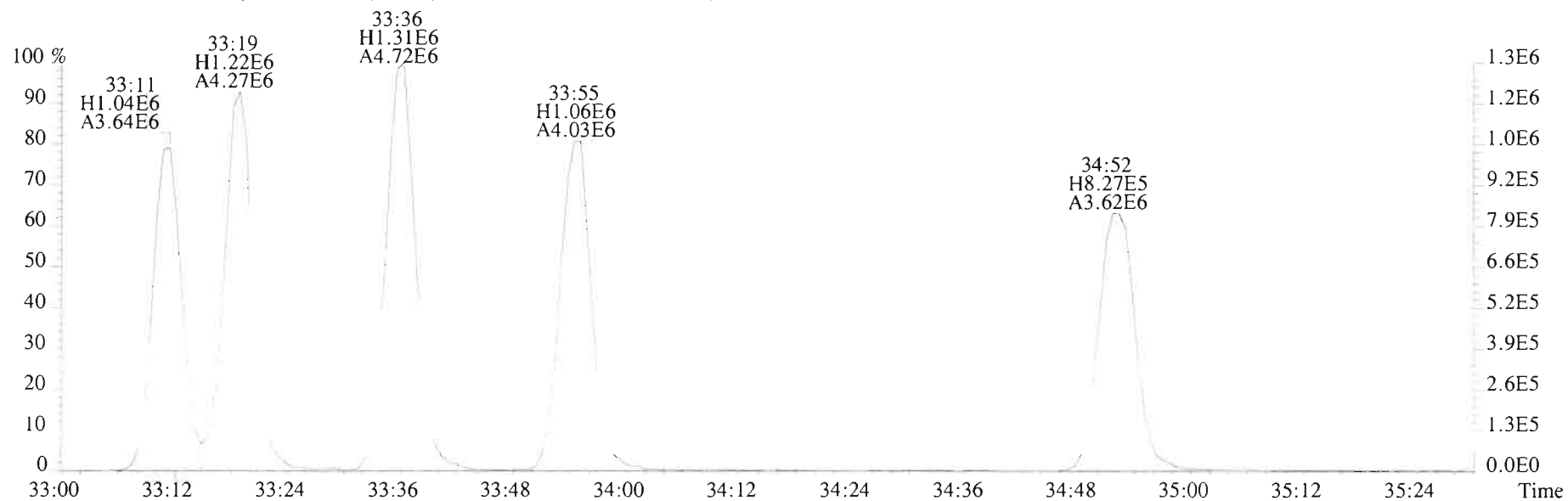
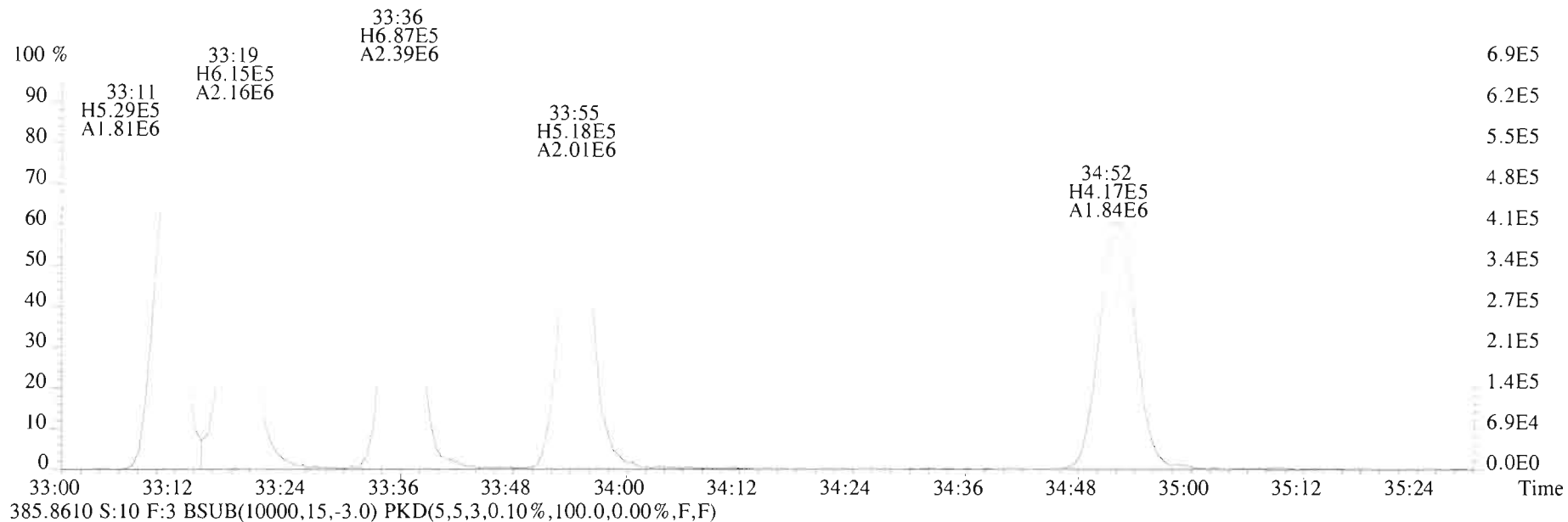


File:191028D1 #1-384 Acq:28-OCT-2019 19:24:29 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:1903655-05 PDI-RB-1910101241 1.00082 Exp:OCDD\_DB5  
 373.8207 S:10 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F)

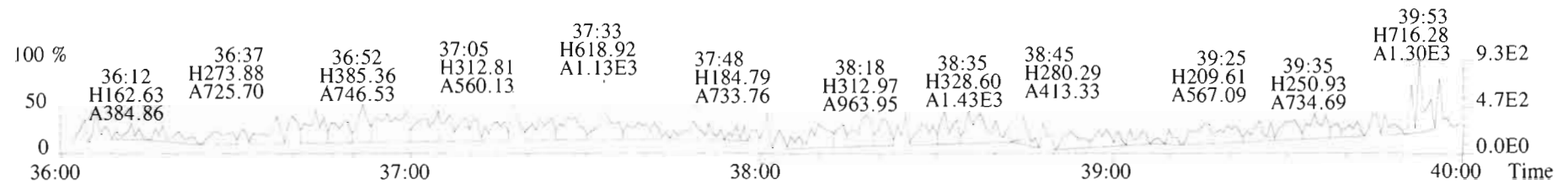
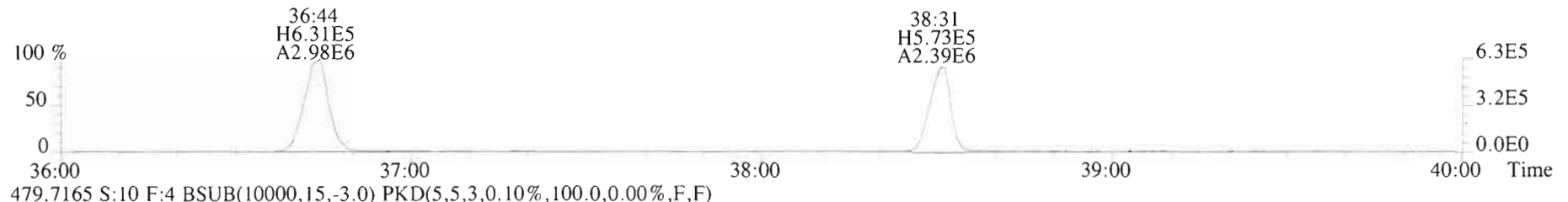
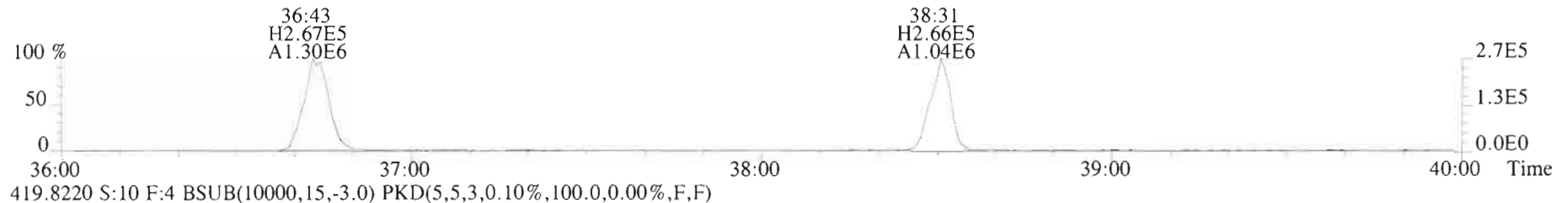
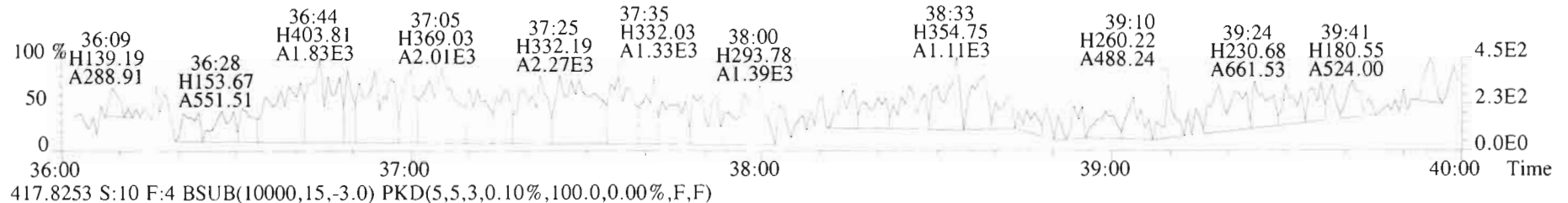
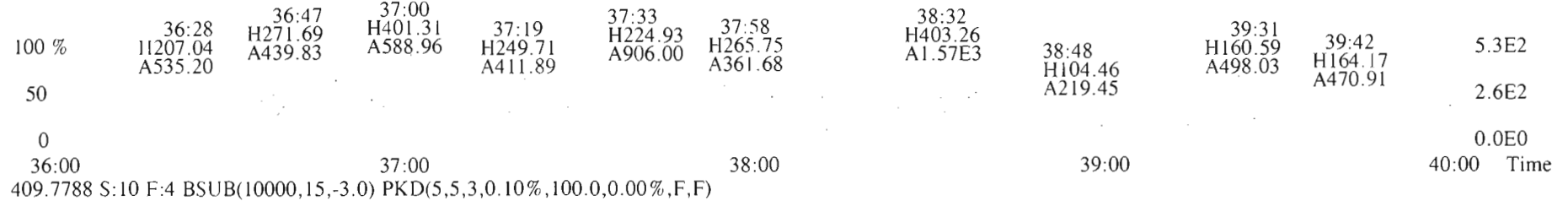




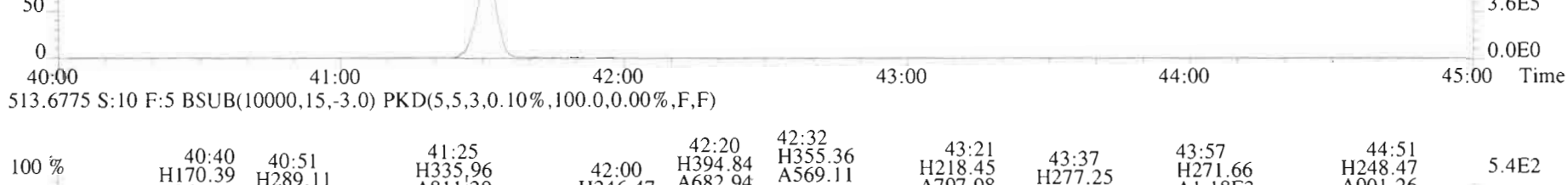
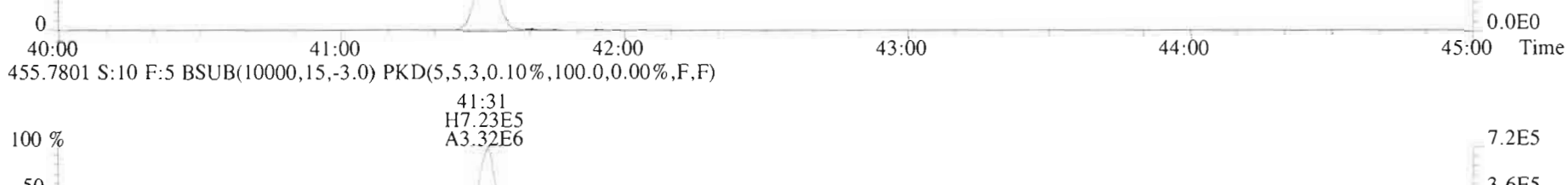
File:191028D1 #1-384 Acq:28-OCT-2019 19:24:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:1903655-05 PDI-RB-1910101241 1.00082 Exp:OCDD\_DB5  
383.8639 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191028D1 #1-355 Acq:28-OCT-2019 19:24:29 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:1903655-05 PDI-RB-1910101241 1.00082 Exp:OCDD\_DB5  
 407.7818 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191028D1 #1-432 Acq:28-OCT-2019 19:24:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:1903655-05 PDI-RB-1910101241 1.00082 Exp:OCDD\_DB5  
441.7428 S:10 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F)



**SAMPLE DATA – EPA METHOD 1668C**

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-8.qld

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*GRB 11/07/19*

*CT 01/07/2020*

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-04-19.mdb 05 Nov 2019 14:32:48  
 Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191106K1\_8, Date: 06-Nov-2019, Time: 20:04:48, ID: B9K0010-BLK1 Method Blank 5, Description: Method Blank

	# Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1			NO	1.02	5.000	15.68		1.001		YES			0.190	
2	2 PCB-2			NO	1.01	5.000	18.12		0.988		YES			0.193	
3	3 PCB-3			NO	1.01	5.000	18.35		1.001		YES			0.194	
4	4 PCB-4/10			NO	1.28	5.000	19.78		1.004		YES			1.56	
5	5 PCB-7/9			NO	0.976	5.000	21.60		1.003		YES			1.30	
6	6 PCB-6			NO	1.02	5.000	22.26		1.033		YES			1.24	
7	7 PCB-5/8			NO	1.01	5.000	22.67		1.052		YES			1.25	
8	8 PCB-14			NO	1.03	5.000	23.80		0.952		YES			1.19	
9	9 PCB-11			NO	1.10	5.000	25.03		1.001		YES			1.12	
10	10 PCB-12/13			NO	1.04	5.000	25.46		1.018		YES			1.19	
11	11 PCB-15			NO	1.03	5.000	25.76		1.030		YES			1.20	
12	12 PCB-19			NO	0.934	5.000	23.99		1.001		YES			0.443	
13	13 PCB-30			NO	1.48	5.000	24.91		1.040		YES			0.279	
14	14 PCB-18			NO	0.693	5.000	25.66		0.951		YES			0.410	
15	15 PCB-17			NO	0.667	5.000	25.84		0.958		YES			0.426	
16	16 PCB-24/27			NO	0.915	5.000	26.46		0.981		YES			0.310	
17	17 PCB-16/32			NO	0.792	5.000	26.99		1.001		YES			0.358	
18	18 PCB-34			NO	0.987	5.000	27.80		0.959		YES			0.423	
19	19 PCB-23			NO	0.974	5.000	27.90		0.962		YES			0.429	
20	20 PCB-29			NO	0.953	5.000	28.13		0.970		YES			0.438	
21	21 PCB-26			NO	1.00	5.000	28.38		0.979		YES			0.417	
22	22 PCB-25			NO	0.978	5.000	28.53		0.984		YES			0.427	
23	23 PCB-31			NO	1.12	5.000	28.92		0.998		YES			0.372	
24	24 PCB-28			NO	1.11	5.000	29.01		1.001		YES			0.378	
25	25 PCB-20/21/33			NO	1.00	5.000	29.65		1.023		YES			0.416	
26	26 PCB-22			NO	1.03	5.000	30.14		1.039		YES			0.404	
27	27 PCB-36			NO	1.18	5.000	30.70		0.930		YES			0.354	
28	28 PCB-39			NO	1.08	5.000	31.19		0.945		YES			0.384	
29	29 PCB-38			NO	1.13	5.000	32.00		0.970		YES			0.369	
30	30 PCB-35			NO	1.13	5.000	32.55		0.987		YES			0.368	
31	31 PCB-37			NO	1.11	5.000	33.03		1.001		YES			0.376	
32	32 PCB-54			NO	0.996	5.000	27.84		1.001		YES			0.284	

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-8.qld

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Name: 191106K1\_8, Date: 06-Nov-2019, Time: 20:04:48, ID: B9K0010-BLK1 Method Blank 5, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50			NO	0.781	5.000	29.08		1.045		YES			0.362	
34	34 PCB-53			NO	0.955	5.000	29.71		0.943		YES			0.365	
35	35 PCB-51			NO	1.02	5.000	30.06		0.955		YES			0.341	
36	36 PCB-45			NO	0.808	5.000	30.49		0.969		YES			0.432	
37	37 PCB-46			NO	0.754	5.000	31.01		0.985		YES			0.463	
38	38 PCB-52/69			NO	1.09	5.000	31.52		1.001		YES			0.320	
39	39 PCB-73			NO	1.29	5.000	31.65		1.005		YES			0.271	
40	40 PCB-43/49			NO	0.940	5.000	31.81		1.010		YES			0.371	
41	41 PCB-47	2.82e2	1.05	YES	0.869	5.000	32.03	32.02	1.001	1.001	NO	1.071		0.369	0.9248
42	42 PCB-48/75			NO	1.02	5.000	32.14		1.004		YES			0.313	
43	43 PCB-65			NO	1.11	5.000	32.41		1.013		YES			0.289	
44	44 PCB-62			NO	1.07	5.000	32.52		1.016		YES			0.301	
45	45 PCB-44			NO	0.761	5.000	32.86		1.027		YES			0.422	
46	46 PCB-42/59			NO	0.960	5.000	33.08		1.033		YES			0.334	
47	47 PCB-41/64/71/72			NO	1.08	5.000	33.70		1.053		YES			0.297	
48	48 PCB-68			NO	1.11	5.000	33.99		1.062		YES			0.289	
49	49 PCB-40			NO	0.577	5.000	34.21		1.069		YES			0.556	
50	50 PCB-57			NO	1.05	5.000	34.52		0.969		YES			0.286	
51	51 PCB-67			NO	0.993	5.000	34.84		0.978		YES			0.302	
52	52 PCB-58			NO	1.11	5.000	34.97		0.981		YES			0.270	
53	53 PCB-63			NO	0.962	5.000	35.12		0.986		YES			0.312	
54	54 PCB-74			NO	1.07	5.000	35.43		0.994		YES			0.282	
55	55 PCB-61/70			NO	0.986	5.000	35.65		1.000		YES			0.304	
56	56 PCB-76/66			NO	1.07	5.000	35.81		1.005		YES			0.281	
57	57 PCB-80			NO	1.08	5.000	36.10		1.001		YES			0.267	
58	58 PCB-55			NO	1.07	5.000	36.42		1.010		YES			0.271	
59	59 PCB-56/60			NO	0.934	5.000	36.96		1.024		YES			0.309	
60	60 PCB-79			NO	1.04	5.000	38.06		1.055		YES			0.277	
61	61 PCB-78			NO	1.03	5.000	38.76		0.987		YES			0.301	
62	62 PCB-81			NO	0.933	5.000	39.30		1.000		YES			0.333	
63	63 PCB-77			NO	1.03	5.000	39.92		1.000		YES			0.298	
64	64 PCB-104			NO	0.995	5.000	32.69		1.001		YES			0.331	
65	65 PCB-96			NO	0.996	5.000	34.02		1.041		YES			0.331	
66	66 PCB-103			NO	0.774	5.000	34.59		1.059		YES			0.426	
67	67 PCB-100			NO	0.778	5.000	34.97		1.070		YES			0.424	
68	68 PCB-94			NO	0.773	5.000	35.43		0.985		YES			0.577	

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-8.qld

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Name: 191106K1\_8, Date: 06-Nov-2019, Time: 20:04:48, ID: B9K0010-BLK1 Method Blank 5, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102			NO	1.01	5.000	35.90		0.999		YES			0.440	
70	70 PCB-93			NO	0.841	5.000	36.03		1.002		YES			0.530	
71	71 PCB-88/91			NO	0.890	5.000	36.38		1.012		YES			0.502	
72	72 PCB-121			NO	1.39	5.000	36.50		1.015		YES			0.322	
73	73 PCB-84/92			NO	0.879	5.000	37.33		0.990		YES			0.540	
74	74 PCB-89			NO	0.959	5.000	37.51		0.995		YES			0.495	
75	75 PCB-90/101			NO	0.944	5.000	37.72		1.000		YES			0.503	
76	76 PCB-113			NO	1.23	5.000	37.97		1.007		YES			0.386	
77	77 PCB-99			NO	1.12	5.000	38.07		1.010		YES			0.424	
78	78 PCB-119			NO	1.47	5.000	38.53		0.987		YES			0.381	
79	79 PCB-108/112			NO	1.25	5.000	38.69		0.991		YES			0.448	
80	80 PCB-83			NO	1.55	5.000	38.84		0.995		YES			0.362	
81	81 PCB-97			NO	1.07	5.000	39.08		1.001		YES			0.521	
82	82 PCB-86			NO	0.996	5.000	39.23		1.005		YES			0.563	
83	83 PCB-87/117/125			NO	1.33	5.000	39.34		1.008		YES			0.420	
84	84 PCB-111/115			NO	1.60	5.000	39.51		1.012		YES			0.350	
85	85 PCB-85/116			NO	1.22	5.000	39.63		1.015		YES			0.461	
86	86 PCB-120			NO	1.68	5.000	39.90		1.022		YES			0.333	
87	87 PCB-110			NO	1.49	5.000	40.04		1.026		YES			0.377	
88	88 PCB-82			NO	0.674	5.000	40.68		0.976		YES			0.596	
89	89 PCB-124			NO	1.16	5.000	41.40		0.993		YES			0.345	
90	90 PCB-107/109			NO	1.17	5.000	41.55		0.996		YES			0.344	
91	91 PCB-123			NO	1.04	5.000	41.72		1.000		YES			0.386	
92	92 PCB-106/118			NO	1.07	5.000	41.92		1.001		YES			0.369	
93	93 PCB-114			NO	1.16	5.000	42.58		1.000		YES			0.298	
94	94 PCB-122			NO	0.973	5.000	42.71		1.003		YES			0.356	
95	95 PCB-105			NO	1.10	5.000	43.47		1.000		YES			0.309	
96	96 PCB-127			NO	1.11	5.000	43.83		1.000		YES			0.306	
97	97 PCB-126			NO	1.21	5.000	45.78		1.000		YES			0.318	
98	98 PCB-155			NO	0.874	5.000	37.23		1.000		YES			0.362	
99	99 PCB-150			NO	0.881	5.000	38.56		1.036		YES			0.359	
100	1... PCB-152			NO	1.00	5.000	39.07		1.050		YES			0.315	
101	1... PCB-145			NO	1.00	5.000	39.53		1.062		YES			0.317	
102	1... PCB-136			NO	0.843	5.000	39.86		1.071		YES			0.375	
103	1... PCB-148			NO	0.693	5.000	40.00		1.075		YES			0.457	
104	1... PCB-154			NO	0.724	5.000	40.50		1.088		YES			0.437	

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-8.qld

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Name: 191106K1\_8, Date: 06-Nov-2019, Time: 20:04:48, ID: B9K0010-BLK1 Method Blank 5, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151			NO	0.632	5.000	41.16		1.106		YES			0.501	
106	1... PCB-135			NO	0.716	5.000	41.34		1.111		YES			0.442	
107	1... PCB-144			NO	0.667	5.000	41.44		1.114		YES			0.475	
108	1... PCB-147			NO	0.661	5.000	41.59		1.118		YES			0.479	
109	1... PCB-139/149			NO	0.738	5.000	41.93		1.127		YES			0.429	
110	1... PCB-140			NO	0.627	5.000	42.11		1.132		YES			0.505	
111	1... PCB-134/143			NO	0.733	5.000	42.53		0.975		YES			0.358	
112	1... PCB-131/133			NO	0.790	5.000	42.81		0.982		YES			0.333	
113	1... PCB-142			NO	0.708	5.000	42.97		0.985		YES			0.371	
114	1... PCB-146/165			NO	0.959	5.000	43.22		0.991		YES			0.274	
115	1... PCB-132/161			NO	0.974	5.000	43.46		0.996		YES			0.270	
116	1... PCB-153			NO	1.01	5.000	43.64		1.000		YES			0.260	
117	1... PCB-168			NO	1.02	5.000	43.87		1.006		YES			0.258	
118	1... PCB-141			NO	0.967	5.000	44.40		1.000		YES			0.325	
119	1... PCB-137			NO	0.987	5.000	44.78		1.009		YES			0.319	
120	1... PCB-130			NO	0.840	5.000	44.89		1.012		YES			0.374	
121	1... PCB-138/163/164			NO	1.23	5.000	45.29		1.001		YES			0.264	
122	1... PCB-158/160			NO	1.18	5.000	45.54		1.006		YES			0.275	
123	1... PCB-129			NO	0.819	5.000	45.78		1.012		YES			0.396	
124	1... PCB-166			NO	1.07	5.000	46.26		0.993		YES			0.262	
125	1... PCB-159			NO	1.12	5.000	46.60		1.000		YES			0.250	
126	1... PCB-128/162			NO	0.851	5.000	46.89		1.007		YES			0.329	
127	1... PCB-167			NO	1.04	5.000	47.30		1.000		YES			0.259	
128	1... PCB-156			NO	1.06	5.000	48.62		1.000		YES			0.263	
129	1... PCB-157			NO	0.978	5.000	48.93		1.001		YES			0.283	
130	1... PCB-169			NO	1.11	5.000	51.18		1.000		YES			0.296	
131	1... PCB-188			NO	1.19	5.000	43.26		1.001		YES			0.210	
132	1... PCB-184			NO	1.17	5.000	43.71		1.011		YES			0.215	
133	1... PCB-179			NO	1.18	5.000	44.52		1.030		YES			0.213	
134	1... PCB-176			NO	1.16	5.000	44.99		1.041		YES			0.216	
135	1... PCB-186			NO	1.22	5.000	45.61		1.055		YES			0.206	
136	1... PCB-178			NO	0.830	5.000	46.12		1.067		YES			0.301	
137	1... PCB-175			NO	0.849	5.000	46.48		1.075		YES			0.295	
138	1... PCB-182/187			NO	0.960	5.000	46.68		1.080		YES			0.261	
139	1... PCB-183			NO	0.957	5.000	47.01		1.088		YES			0.262	
140	1... PCB-185			NO	1.32	5.000	47.68		0.955		YES			0.343	



Dataset: U:\VG11.PRO\Results\191106K1\191106K1-8.qld

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Name: 191106K1\_8, Date: 06-Nov-2019, Time: 20:04:48, ID: B9K0010-BLK1 Method Blank 5, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174			NO	1.22	5.000	48.05		0.962		YES			0.372	
142	1... PCB-181			NO	1.41	5.000	48.15		0.964		YES			0.320	
143	1... PCB-177			NO	1.24	5.000	48.33		0.968		YES			0.365	
144	1... PCB-171			NO	1.24	5.000	48.62		0.974		YES			0.365	
145	1... PCB-173			NO	1.14	5.000	49.06		0.983		YES			0.397	
146	1... PCB-172			NO	1.31	5.000	49.55		0.992		YES			0.346	
147	1... PCB-192			NO	1.70	5.000	49.74		0.996		YES			0.266	
148	1... PCB-180			NO	1.32	5.000	49.95		1.000		YES			0.343	
149	1... PCB-193			NO	1.54	5.000	50.18		1.005		YES			0.294	
150	1... PCB-191			NO	1.57	5.000	50.43		1.010		YES			0.288	
151	1... PCB-170			NO	1.36	5.000	51.62		1.000		YES			0.389	
152	1... PCB-190			NO	1.84	5.000	51.80		1.004		YES			0.288	
153	1... PCB-189			NO	1.33	5.000	53.31		1.000		YES			0.284	
154	1... PCB-202			NO	1.02	5.000	48.87		1.001		YES			0.166	
155	1... PCB-201			NO	0.915	5.000	49.36		1.011		YES			0.185	
156	1... PCB-204			NO	0.979	5.000	49.51		1.014		YES			0.173	
157	1... PCB-197			NO	0.979	5.000	49.83		1.020		YES			0.173	
158	1... PCB-200			NO	0.954	5.000	50.78		1.040		YES			0.178	
159	1... PCB-198			NO	0.748	5.000	52.30		1.071		YES			0.227	
160	1... PCB-199			NO	0.706	5.000	52.41		1.073		YES			0.240	
161	1... PCB-196/203			NO	0.785	5.000	52.87		1.083		YES			0.216	
162	1... PCB-195			NO	1.03	5.000	53.98		0.984		YES			0.177	
163	1... PCB-194	1.20e2	1.61	YES	1.16	5.000	54.90	54.89	1.000	1.000	NO	0.6271		0.0623	0.4545
164	1... PCB-205			NO	1.40	5.000	55.17		1.005		YES			0.130	
165	1... PCB-208			NO	0.934	5.000	54.14		1.000		YES			0.132	
166	1... PCB-207			NO	0.912	5.000	54.46		1.006		YES			0.135	
167	1... PCB-206	6.82e1	1.34	NO	0.987	5.000	56.42	56.45	1.000	1.001	NO	0.4155		0.0441	0.4155
168	1... PCB-209			NO	0.943	5.000	57.64		1.000		YES			0.151	
169	1... 13C-PCB-1	7.52e5	3.59	NO	1.08	5.000	15.68	15.67	0.609	0.609	NO	1221	61.1	1.74	
170	1... 13C-PCB-3	7.99e5	3.48	NO	1.09	5.000	18.34	18.34	0.712	0.713	NO	1280	64.0	1.72	
171	1... 13C-PCB-4	4.85e5	1.54	NO	0.640	5.000	19.70	19.70	0.765	0.766	NO	1326	66.3	0.671	
172	1... 13C-PCB-9	7.69e5	1.55	NO	0.995	5.000	21.54	21.54	0.837	0.837	NO	1352	67.6	0.432	
173	1... 13C-PCB-11	8.41e5	1.60	NO	0.971	5.000	25.02	25.01	0.972	0.972	NO	1514	75.7	0.442	
174	1... 13C-PCB-19	5.66e5	1.01	NO	0.637	5.000	23.96	23.95	0.931	0.931	NO	1554	77.7	6.07	
175	1... 13C-PCB-32	8.47e5	1.03	NO	0.910	5.000	26.98	26.97	1.048	1.048	NO	1628	81.4	4.25	
176	1... 13C-PCB-28	7.14e5	1.01	NO	1.07	5.000	28.97	28.99	1.003	1.004	NO	1538	76.9	6.78	

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-8.qld

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Name: 191106K1\_8, Date: 06-Nov-2019, Time: 20:04:48, ID: B9K0010-BLK1 Method Blank 5, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	7.36e5	1.01	NO	0.959	5.000	32.97	32.99	1.141	1.142	NO	1769	88.4	7.55	
178	1... 13C-PCB-54	6.90e5	0.77	NO	1.10	5.000	27.83	27.82	0.754	0.754	NO	1639	81.9	1.37	
179	1... 13C-PCB-52	5.61e5	0.76	NO	0.844	5.000	31.48	31.49	0.853	0.853	NO	1733	86.7	1.79	
180	1... 13C-PCB-47	6.06e5	0.76	NO	0.893	5.000	32.00	32.01	0.867	0.867	NO	1772	88.6	1.69	
181	1... 13C-PCB-70	6.80e5	0.79	NO	1.01	5.000	35.63	35.63	0.965	0.965	NO	1762	88.1	1.50	
182	1... 13C-PCB-80	6.86e5	0.76	NO	1.05	5.000	36.06	36.08	0.977	0.977	NO	1711	85.6	1.44	
183	1... 13C-PCB-81	6.56e5	0.76	NO	0.985	5.000	39.28	39.28	1.064	1.064	NO	1738	86.9	1.53	
184	1... 13C-PCB-77	6.71e5	0.78	NO	0.958	5.000	39.89	39.90	1.080	1.081	NO	1827	91.3	1.57	
185	1... 13C-PCB-104	6.11e5	1.58	NO	1.10	5.000	32.67	32.67	0.827	0.828	NO	1726	86.3	0.835	
186	1... 13C-PCB-95	4.51e5	1.60	NO	0.852	5.000	35.95	35.95	0.910	0.910	NO	1641	82.0	1.07	
187	1... 13C-PCB-101	4.13e5	1.62	NO	0.814	5.000	37.70	37.70	0.955	0.955	NO	1573	78.6	1.13	
188	1... 13C-PCB-97	3.65e5	1.63	NO	0.709	5.000	39.04	39.04	0.989	0.989	NO	1596	79.8	1.29	
189	1... 13C-PCB-123	5.13e5	1.59	NO	0.922	5.000	41.67	41.70	1.055	1.056	NO	1725	86.2	0.993	
190	1... 13C-PCB-118	5.20e5	1.60	NO	0.975	5.000	41.86	41.89	1.060	1.061	NO	1653	82.6	0.939	
191	1... 13C-PCB-114	5.32e5	1.58	NO	1.52	5.000	42.56	42.56	0.908	0.908	NO	1621	81.1	1.19	
192	1... 13C-PCB-105	5.44e5	1.58	NO	1.58	5.000	43.45	43.45	0.927	0.927	NO	1590	79.5	1.14	
193	1... 13C-PCB-127	5.65e5	1.54	NO	1.62	5.000	43.81	43.81	0.935	0.935	NO	1611	80.6	1.11	
194	1... 13C-PCB-126	4.97e5	1.56	NO	1.45	5.000	45.76	45.76	0.976	0.977	NO	1591	79.5	1.25	
195	1... 13C-PCB-155	3.96e5	1.34	NO	1.03	5.000	37.21	37.22	0.942	0.943	NO	1196	59.8	0.246	
196	1... 13C-PCB-153	5.18e5	1.22	NO	1.42	5.000	43.62	43.62	0.931	0.931	NO	1683	84.2	1.14	
197	1... 13C-PCB-141	4.33e5	1.27	NO	1.14	5.000	44.40	44.38	0.947	0.947	NO	1755	87.7	1.42	
198	1... 13C-PCB-138	4.20e5	1.23	NO	1.18	5.000	45.25	45.25	0.966	0.966	NO	1647	82.4	1.38	
199	1... 13C-PCB-159	4.98e5	1.27	NO	1.43	5.000	46.60	46.58	0.994	0.994	NO	1606	80.3	1.13	
200	2... 13C-PCB-167	5.09e5	1.23	NO	1.42	5.000	47.30	47.28	1.009	1.009	NO	1653	82.7	1.14	
201	2... 13C-PCB-156	4.98e5	1.28	NO	1.40	5.000	48.62	48.60	1.038	1.037	NO	1649	82.4	1.16	
202	2... 13C-PCB-157	5.05e5	1.27	NO	1.41	5.000	48.91	48.89	1.044	1.043	NO	1660	83.0	1.15	
203	2... 13C-PCB-169	4.36e5	1.24	NO	1.35	5.000	51.18	51.16	1.092	1.092	NO	1499	74.9	1.21	
204	2... 13C-PCB-188	4.74e5	0.46	NO	1.46	5.000	43.22	43.22	0.926	0.926	NO	1866	93.3	1.12	
205	2... 13C-PCB-180	2.78e5	0.46	NO	0.932	5.000	49.93	49.93	1.070	1.070	NO	1718	85.9	1.76	
206	2... 13C-PCB-170	2.20e5	0.46	NO	0.796	5.000	51.60	51.60	1.106	1.106	NO	1590	79.5	2.06	
207	2... 13C-PCB-189	2.78e5	0.46	NO	1.09	5.000	53.28	53.28	1.142	1.142	NO	1466	73.3	1.50	
208	2... 13C-PCB-202	3.46e5	0.89	NO	1.45	5.000	48.83	48.83	1.046	1.046	NO	1372	68.6	0.606	
209	2... 13C-PCB-194	3.32e5	0.91	NO	0.714	5.000	54.89	54.89	0.995	0.995	NO	1712	85.6	0.947	
210	2... 13C-PCB-208	4.14e5	0.78	NO	0.896	5.000	54.13	54.13	0.982	0.981	NO	1701	85.0	1.00	
211	2... 13C-PCB-206	3.32e5	0.78	NO	0.653	5.000	56.41	56.41	1.023	1.023	NO	1875	93.7	1.38	
212	2... 13C-PCB-209	3.69e5	1.21	NO	0.806	5.000	57.64	57.64	1.045	1.045	NO	1687	84.3	0.252	

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Name: 191106K1\_8, Date: 06-Nov-2019, Time: 20:04:48, ID: B9K0010-BLK1 Method Blank 5, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	1.14e6	1.59	NO	1.00	5.000	25.74	25.74	1.000	0.000	NO	2000	100	0.430	
214	2... 13C-PCB-31	8.68e5	1.02	NO	1.00	5.000	28.90	28.88	1.000	0.000	NO	2000	100	7.25	
215	2... 13C-PCB-60	7.66e5	0.77	NO	1.00	5.000	36.94	36.92	1.000	0.000	NO	2000	100	1.51	
216	2... 13C-PCB-111	6.45e5	1.60	NO	1.00	5.000	39.51	39.49	1.000	0.000	NO	2000	100	0.915	
217	2... 13C-PCB-128	4.32e5	1.26	NO	1.00	5.000	46.86	46.86	1.000	0.000	NO	2000	100	1.62	
218	2... 13C-PCB-182	3.48e5	0.44	NO	1.00	5.000	46.69	46.67	0.000	0.000	NO	2000	100	1.64	
219	2... 13C-PCB-205	5.44e5	0.89	NO	1.00	5.000	55.16	55.15	1.000	0.000	NO	2000	100	0.675	
220	2... 13C-PCB-79	6.96e5	0.79	NO	1.03	5.000	38.05	38.02	1.031	1.030	NO	1759	88.0	1.46	
221	2... 13C-PCB-178	2.96e5	0.44	NO	0.875	5.000	46.12	46.12	0.988	0.988	NO	1568	78.4	1.62	
222	2... 13C-PCB-79	6.96e5	0.79	NO	1.05	5.000	38.01	38.02	0.967	0.968	NO	2029	101	1.71	
223	2... 13C-PCB-178	2.96e5	0.44	NO	0.975	5.000	46.12	46.12	0.924	0.924	NO	2185	109	2.23	
224	2... Total Mono-PCBs				1.01	5.000	0.00		0.000		NO			0.378	0.194 -
225	2... Total Di-PCBs				1.06	5.000	0.00		0.000		NO			10.0	1.56 -
226	2... 2nd Function Tri-PCBs				0.914	5.000	0.00		0.000		NO			2.23	
227	2... 3rd Function Tri-PCBs				1.06	5.000	0.00		0.000		NO			5.56	0.443 -
228	2... Total Tetra-PCBs				0.986	5.000	0.00		0.000		NO	0.0000		10.5	0.566 0.9248 -
229	2... 3rd Function Penta-PCBs				1.12	5.000	0.00		0.000		NO			12.5	
230	2... 4th Function Penta-PCBs				1.11	5.000	0.00		0.000		NO			1.58	0.596
231	2... 3rd Function Hexa-PCBs				0.774	5.000	0.00		0.000		NO			5.45	
232	2... 4th Function Hexa-PCBs				0.972	5.000	0.00		0.000		NO			0.02	0.505
233	2... Total Hepta-PCBs				1.26	5.000	0.00		0.000		NO			6.84	0.397
234	2... 4th Function Octa-PCBs				0.886	5.000	0.00		0.000		NO			1.56	
235	2... 5th Function Octa-PCBs				1.20	5.000	0.00		0.000		NO	0.0000		0.378	0.240 0.4545 -
236	2... Total Nona-PCBs				0.945	5.000	0.00		0.000		NO	0.4155		0.311	0.135 0.4155 -
237	2... Deca-CB				0.943	5.000	0.00		0.000		NO			0.151	-
238	2... Total PCBs														

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-8.qld

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Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-04-19.mdb 05 Nov 2019 14:32:48  
 Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

ID: B9K0010-BLK1 Method Blank 5, Description: Method Blank

**Total Mono-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**Total Di-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**2nd Function Tri-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**3rd Function Tri-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**Total Tetra-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	PCB-47	32.03	32.02	1.862e3	1.528e3	1.444e2	1.376e2	1.05	YES	2.820e2	0.00000	0.92484	0.369

**3rd Function Penta-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

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**ID: B9K0010-BLK1 Method Blank 5, Description: Method Blank**

**4th Function Penta-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**3rd Function Hexa-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**4th Function Hexa-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**Total Hepta-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**4th Function Octa-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**5th Function Octa-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	PCB-194	54.90	54.89	1.352e3	8.690e2	7.419e1	4.614e1	1.61	YES	1.203e2	0.00000	0.45447	0.0633

**Total Nona-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	PCB-206	56.42	56.45	5.410e2	6.560e2	3.901e1	2.920e1	1.34	NO	6.821e1	0.41549	0.41549	0.0441

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**ID: B9K0010-BLK1 Method Blank 5, Description: Method Blank**

**Deca-CB**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**Total PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**Total Mono-Isotopes**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-1	15.68	15.67	1.060e7	3.012e6	5.885e5	1.638e5	3.59	NO	7.524e5	1221.1	1.74
2	13C-PCB-3	18.34	18.34	1.047e7	3.039e6	6.202e5	1.783e5	3.48	NO	7.986e5	1280.2	1.72

**Total Di-Isotopes**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-4	19.70	19.70	4.875e6	3.149e6	2.944e5	1.909e5	1.54	NO	4.852e5	1326.1	0.671
2	13C-PCB-9	21.54	21.54	7.688e6	4.980e6	4.678e5	3.017e5	1.55	NO	7.695e5	1351.9	0.432
3	13C-PCB-11	25.02	25.01	7.999e6	5.027e6	5.173e5	3.240e5	1.60	NO	8.412e5	1514.4	0.442
4	13C-PCB-15	25.74	25.74	1.078e7	6.726e6	7.024e5	4.412e5	1.59	NO	1.144e6	2000.0	0.430

**2nd Function Tri-Isotopes**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-19	23.96	23.95	4.537e6	4.446e6	2.849e5	2.812e5	1.01	NO	5.661e5	1553.6	6.07
2	13C-PCB-32	26.98	26.97	6.661e6	6.515e6	4.299e5	4.173e5	1.03	NO	8.472e5	1628.3	4.25

**3rd Function Tri-Isotopes**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-31	28.90	28.88	5.985e6	5.849e6	4.373e5	4.307e5	1.02	NO	8.680e5	2000.0	7.25
2	13C-PCB-28	28.97	28.99	4.816e6	4.767e6	3.582e5	3.555e5	1.01	NO	7.137e5	1538.1	6.78
3	13C-PCB-37	32.97	32.99	4.845e6	4.819e6	3.705e5	3.659e5	1.01	NO	7.365e5	1768.6	7.55

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**ID: B9K0010-BLK1 Method Blank 5, Description: Method Blank**

**Tetra-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-54	27.83	27.82	4.039e6	5.201e6	2.990e5	3.905e5	0.77	NO	6.895e5	1638.7		1.37
2	13C-PCB-52	31.48	31.49	3.272e6	4.263e6	2.426e5	3.180e5	0.76	NO	5.605e5	1733.2		1.79
3	13C-PCB-47	32.00	32.01	3.547e6	4.662e6	2.616e5	3.447e5	0.76	NO	6.063e5	1771.5		1.69
4	13C-PCB-70	35.63	35.63	3.876e6	4.919e6	2.999e5	3.802e5	0.79	NO	6.801e5	1761.9		1.50
5	13C-PCB-80	36.06	36.08	3.947e6	5.144e6	2.966e5	3.891e5	0.76	NO	6.857e5	1711.4		1.44
6	13C-PCB-60	36.94	36.92	4.362e6	5.676e6	3.325e5	4.337e5	0.77	NO	7.662e5	2000.0		1.51
7	13C-PCB-79	38.05	38.02	3.939e6	4.979e6	3.059e5	3.897e5	0.79	NO	6.956e5	1759.4		1.46
8	13C-PCB-81	39.28	39.28	3.664e6	4.799e6	2.832e5	3.727e5	0.76	NO	6.558e5	1738.0		1.53
9	13C-PCB-77	39.89	39.90	3.765e6	4.772e6	2.948e5	3.759e5	0.78	NO	6.708e5	1826.9		1.57

**3rd Function Penta-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-104	32.67	32.67	4.977e6	3.156e6	3.744e5	2.364e5	1.58	NO	6.107e5	1725.9		0.835
2	13C-PCB-95	35.95	35.95	3.693e6	2.296e6	2.777e5	1.732e5	1.60	NO	4.509e5	1640.6		1.07
3	13C-PCB-101	37.70	37.70	3.486e6	2.099e6	2.553e5	1.575e5	1.62	NO	4.128e5	1572.8		1.13
4	13C-PCB-97	39.04	39.04	2.958e6	1.832e6	2.261e5	1.391e5	1.63	NO	3.652e5	1595.8		1.29
5	13C-PCB-111	39.51	39.49	5.103e6	3.214e6	3.971e5	2.481e5	1.60	NO	6.452e5	2000.0		0.915
6	13C-PCB-123	41.67	41.70	4.092e6	2.612e6	3.151e5	1.977e5	1.59	NO	5.128e5	1725.0		0.993
7	13C-PCB-118	41.86	41.89	4.172e6	2.612e6	3.198e5	2.000e5	1.60	NO	5.198e5	1652.7		0.939

**4th Function Penta-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-114	42.56	42.56	4.253e6	2.681e6	3.265e5	2.060e5	1.58	NO	5.325e5	1621.2		1.19
2	13C-PCB-105	43.45	43.45	4.324e6	2.700e6	3.333e5	2.107e5	1.58	NO	5.440e5	1589.6		1.14
3	13C-PCB-127	43.81	43.81	4.299e6	2.732e6	3.427e5	2.220e5	1.54	NO	5.647e5	1611.0		1.11
4	13C-PCB-126	45.76	45.76	3.791e6	2.439e6	3.027e5	1.942e5	1.56	NO	4.969e5	1590.5		1.25

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-8.qld

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 Printed: Thursday, November 07, 2019 11:52:56 Pacific Standard Time

ID: B9K0010-BLK1 Method Blank 5, Description: Method Blank

4th Function Hexa-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-153	43.62	43.62	3.683e6	2.984e6	2.848e5	2.332e5	1.22	NO	5.180e5	1683.3		1.14
2	13C-PCB-141	44.40	44.38	3.131e6	2.467e6	2.423e5	1.911e5	1.27	NO	4.335e5	1754.8		1.42
3	13C-PCB-138	45.25	45.25	3.000e6	2.440e6	2.321e5	1.881e5	1.23	NO	4.202e5	1647.5		1.38
4	13C-PCB-159	46.60	46.58	3.520e6	2.814e6	2.785e5	2.191e5	1.27	NO	4.976e5	1606.0		1.13
5	13C-PCB-128	46.86	46.86	2.941e6	2.315e6	2.409e5	1.914e5	1.26	NO	4.323e5	2000.0		1.62
6	13C-PCB-167	47.30	47.28	3.598e6	2.877e6	2.809e5	2.281e5	1.23	NO	5.090e5	1653.4		1.14
7	13C-PCB-156	48.62	48.60	3.567e6	2.779e6	2.800e5	2.182e5	1.28	NO	4.981e5	1648.9		1.16
8	13C-PCB-157	48.91	48.89	3.562e6	2.831e6	2.820e5	2.228e5	1.27	NO	5.048e5	1660.0		1.15
9	13C-PCB-169	51.18	51.16	2.984e6	2.408e6	2.418e5	1.944e5	1.24	NO	4.362e5	1498.9		1.21

5th Function Octa-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-194	54.89	54.89	2.882e6	3.161e6	1.579e5	1.741e5	0.91	NO	3.320e5	1711.9		0.947
2	13C-PCB-205	55.16	55.15	4.649e6	5.198e6	2.560e5	2.875e5	0.89	NO	5.435e5	2000.0		0.675



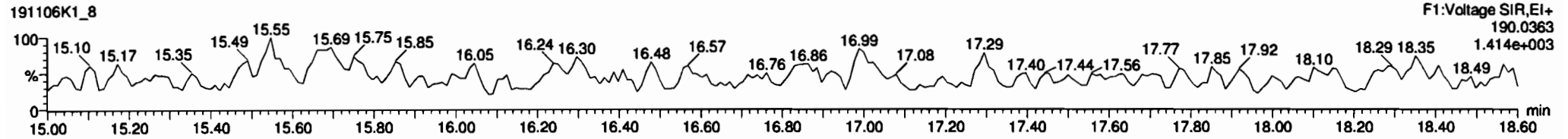
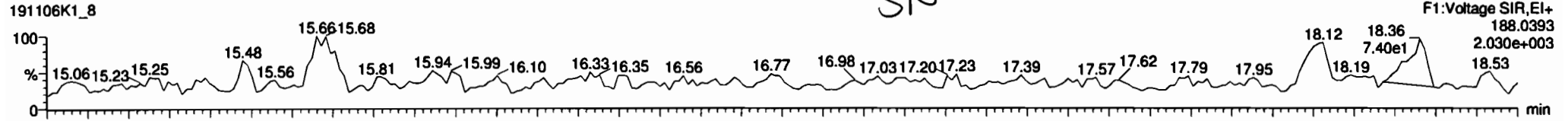
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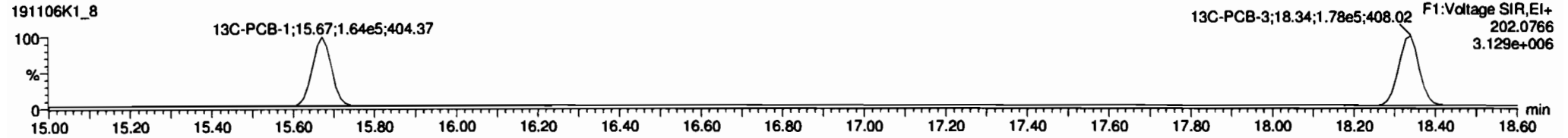
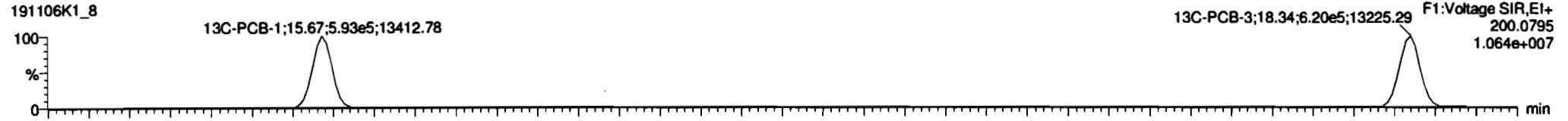
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PCB-1

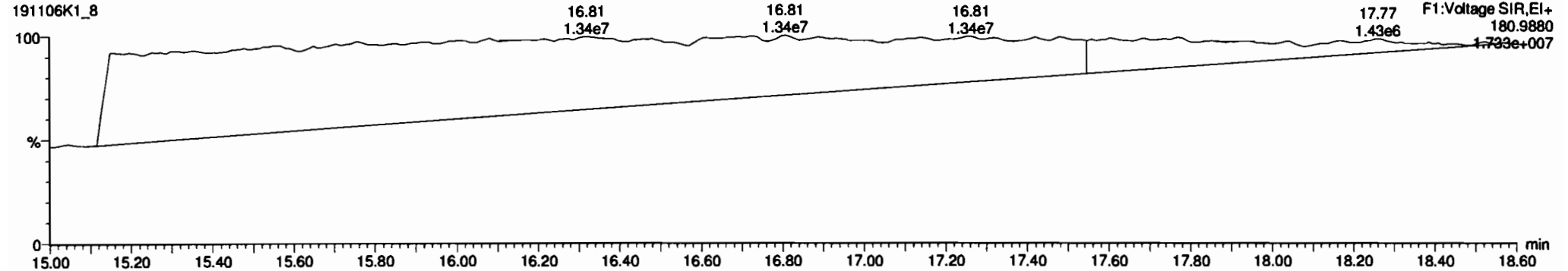
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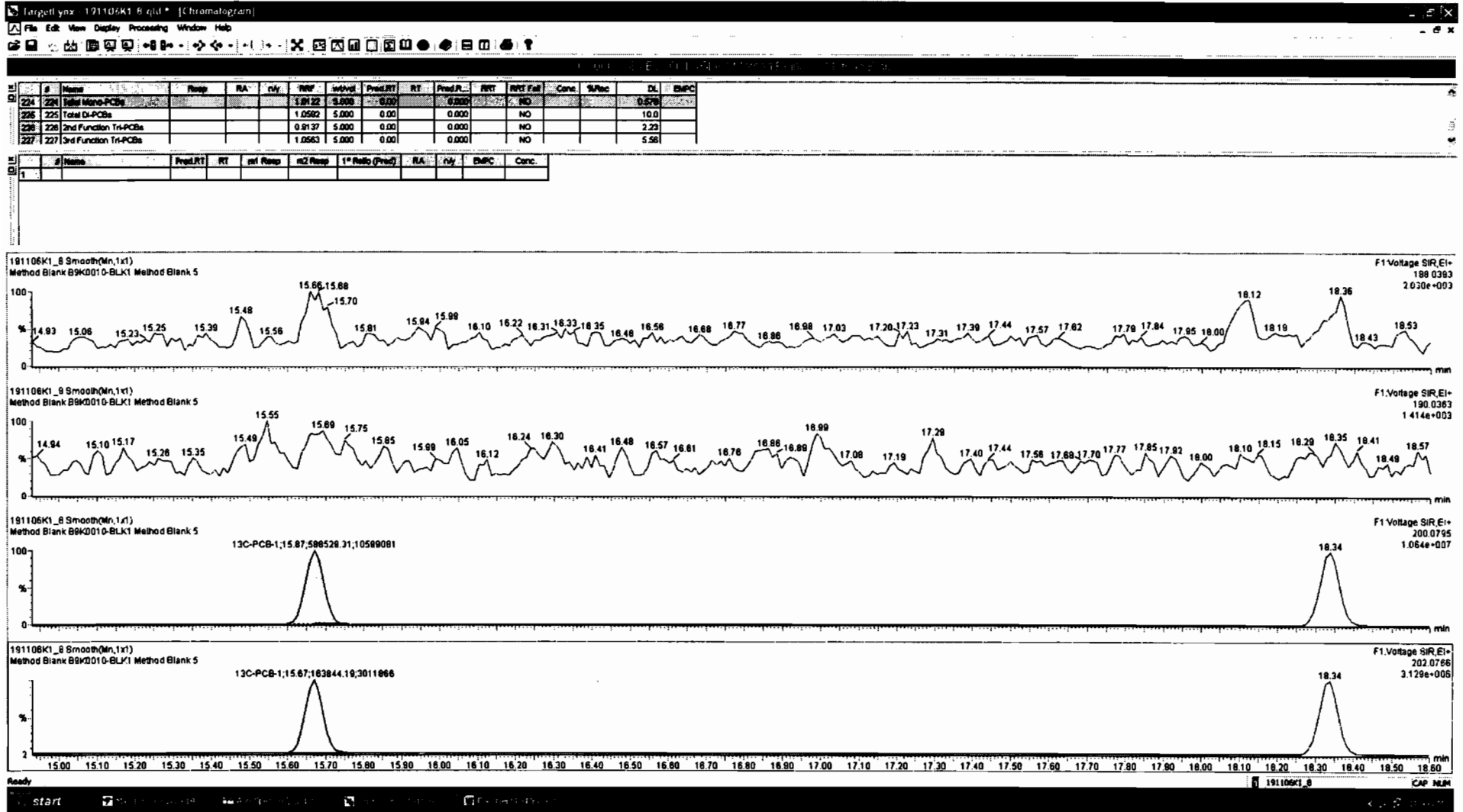


13C-PCB-1



PFK1



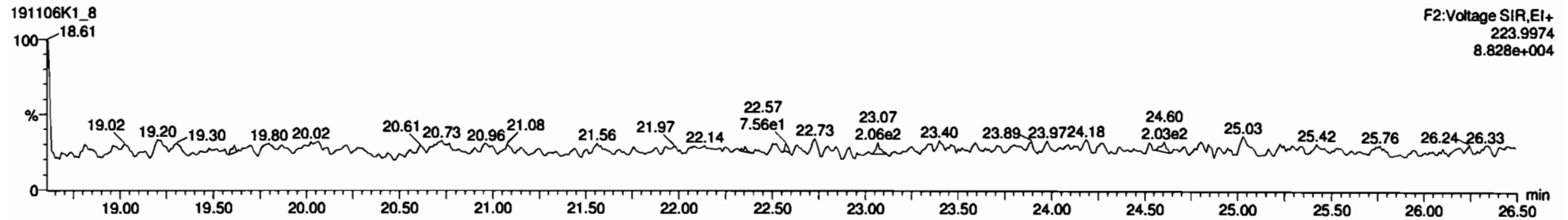
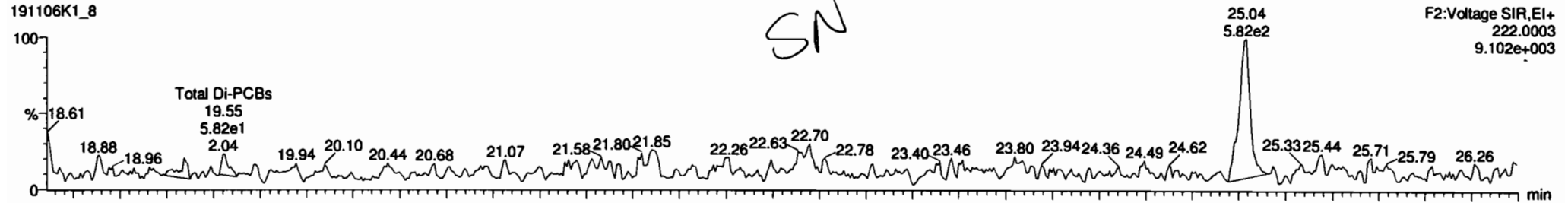


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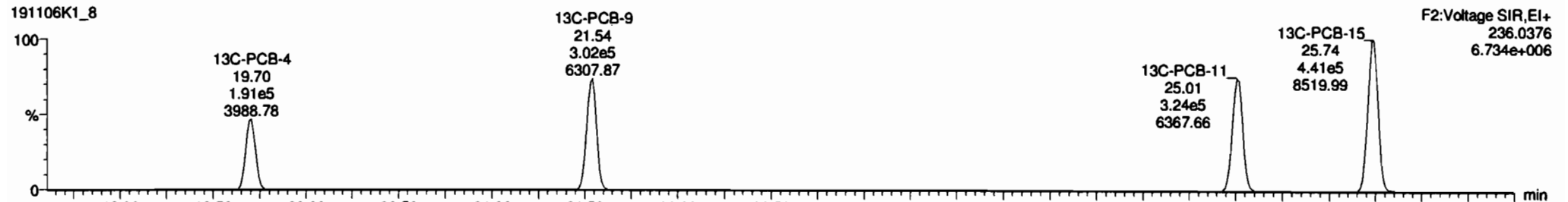
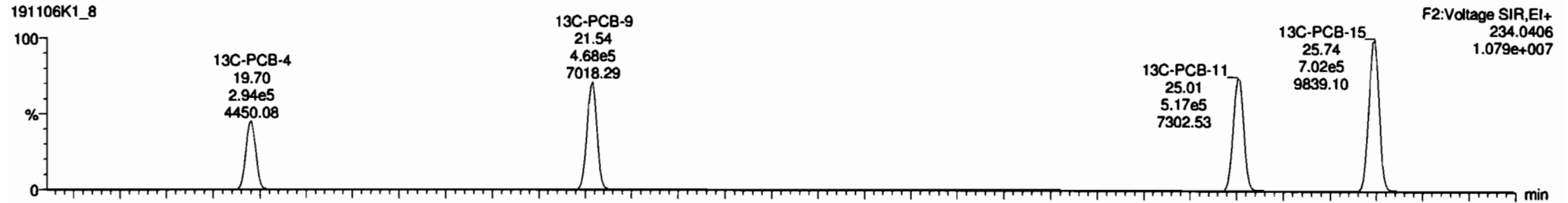
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PCB-4/10



13C-PCB-4



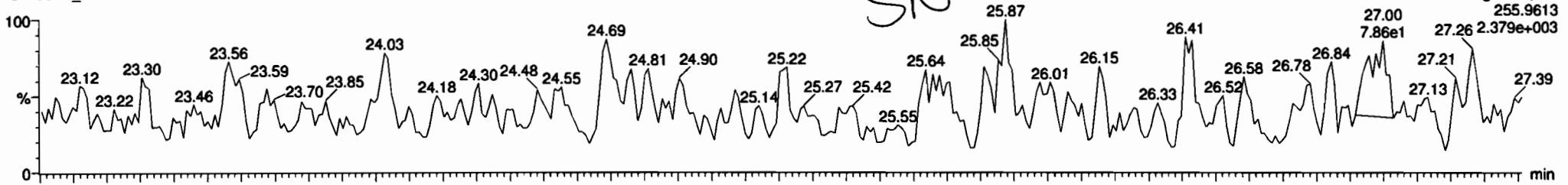
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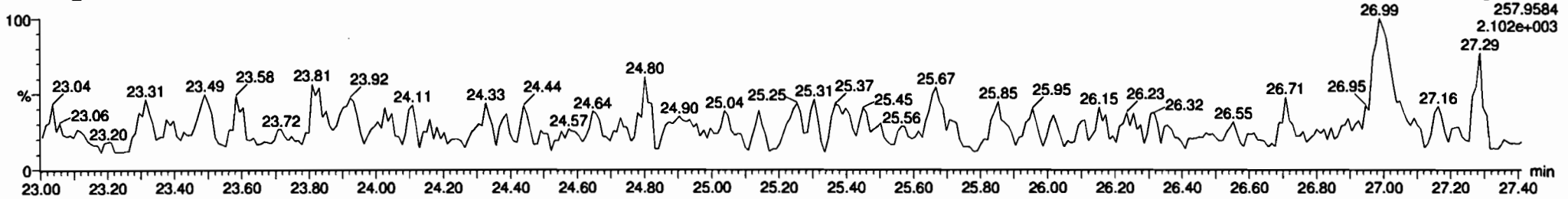
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PCB-19

191106K1\_8

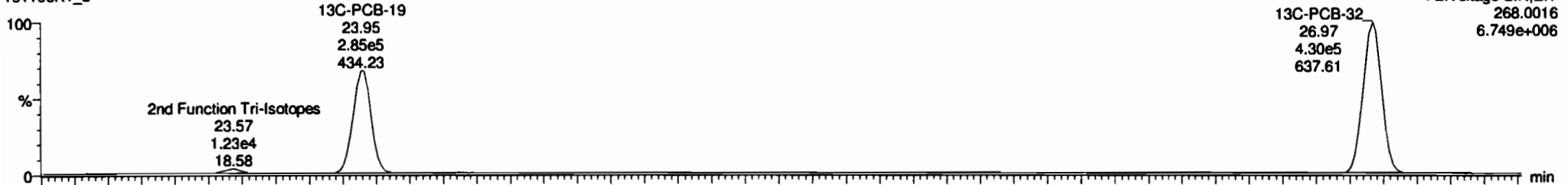


191106K1\_8



13C-PCB-19

191106K1\_8



191106K1\_8

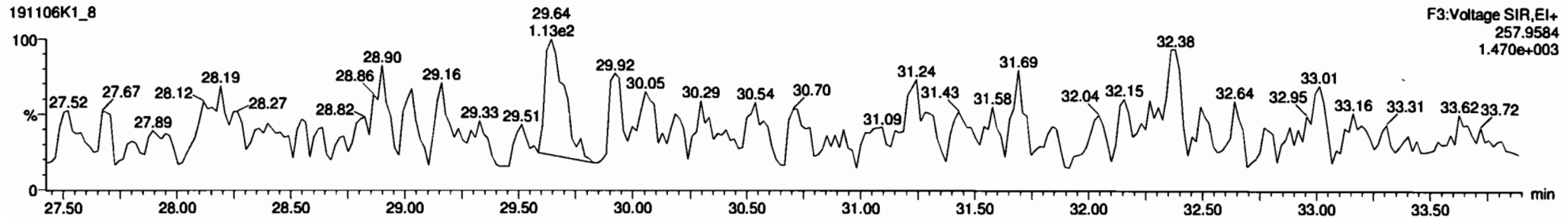
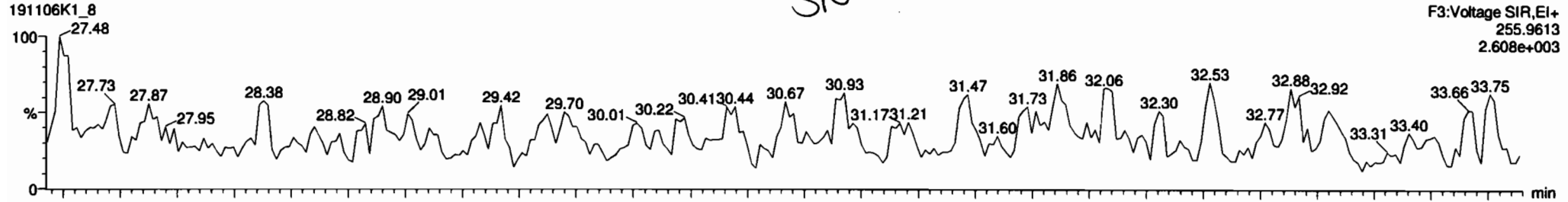


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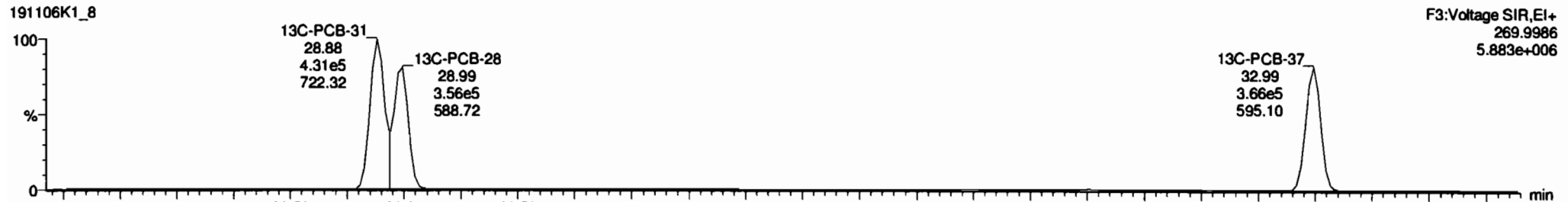
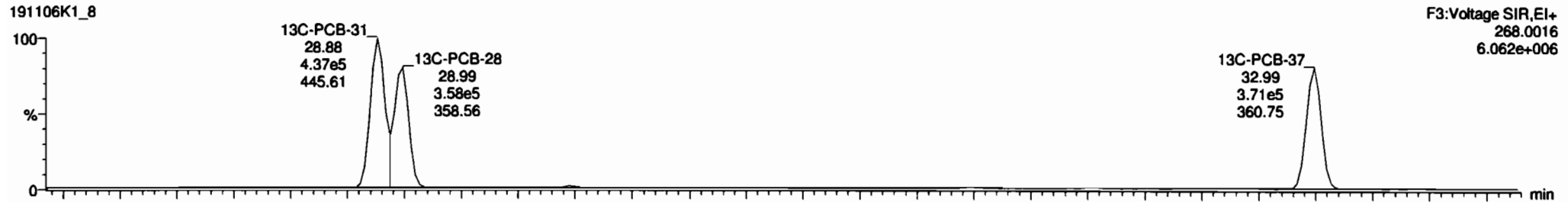
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PCB-34



13C-PCB-28



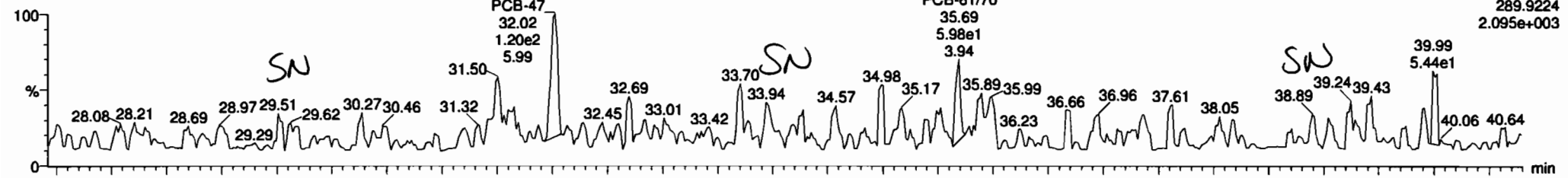
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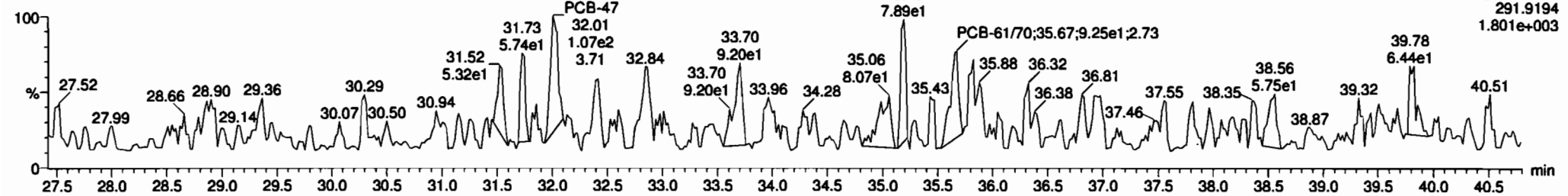
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PCB-54

191106K1\_8

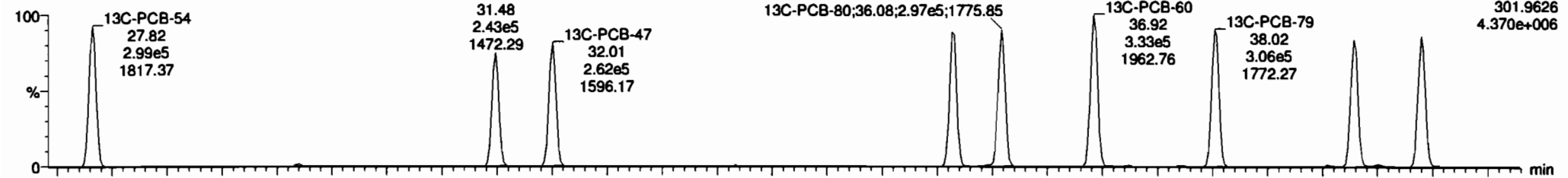


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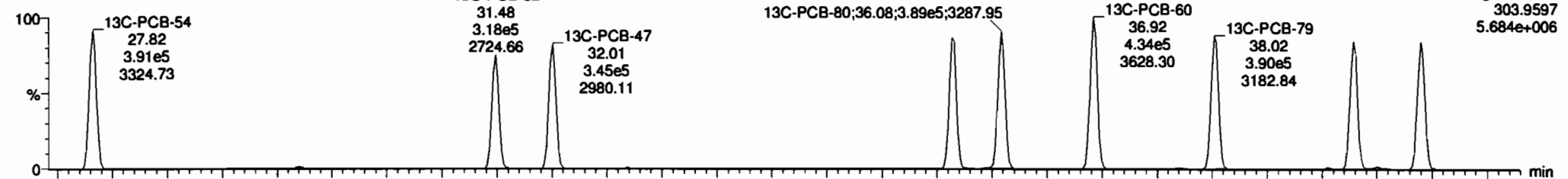


13C-PCB-54

191106K1\_8



191106K1\_8



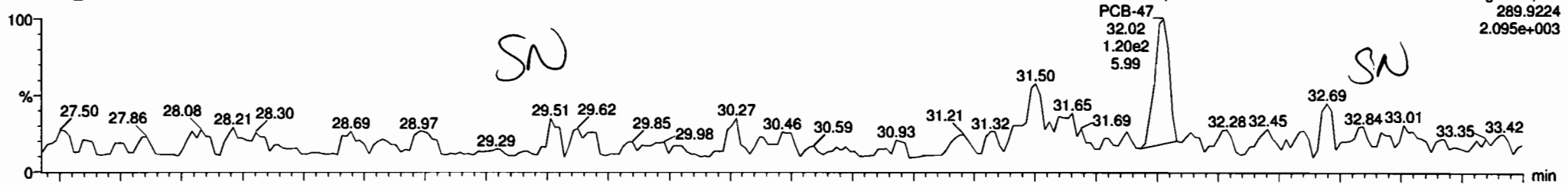
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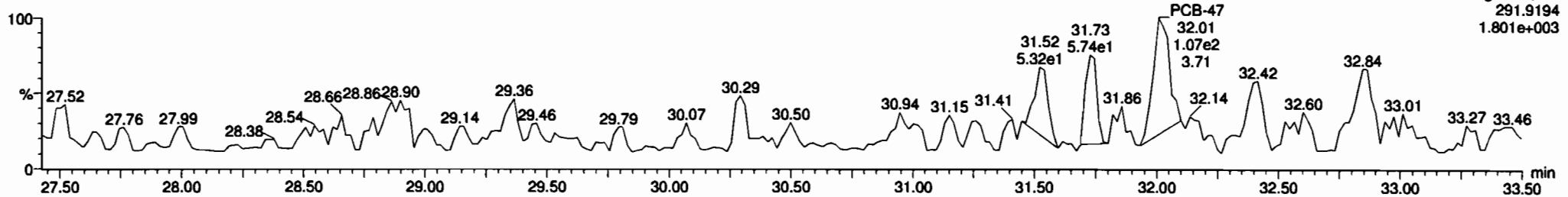
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PCB-50

191106K1\_8

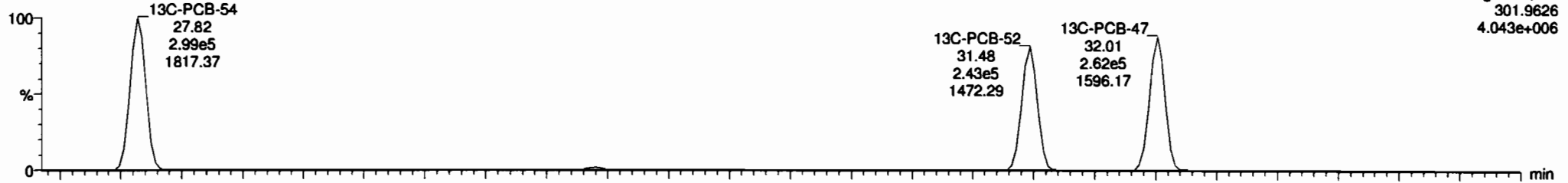


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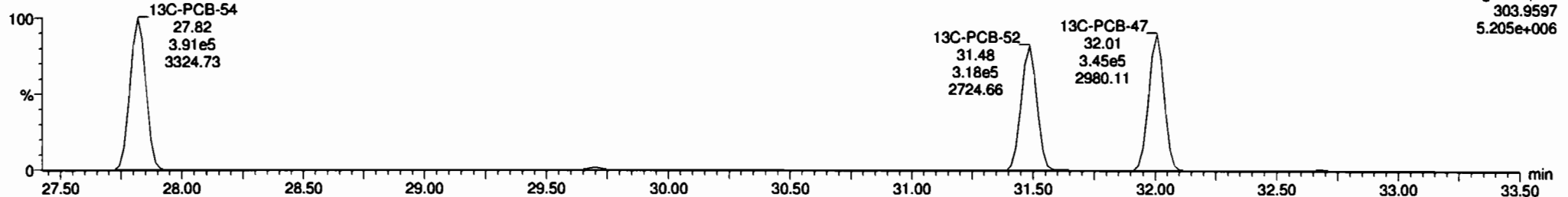


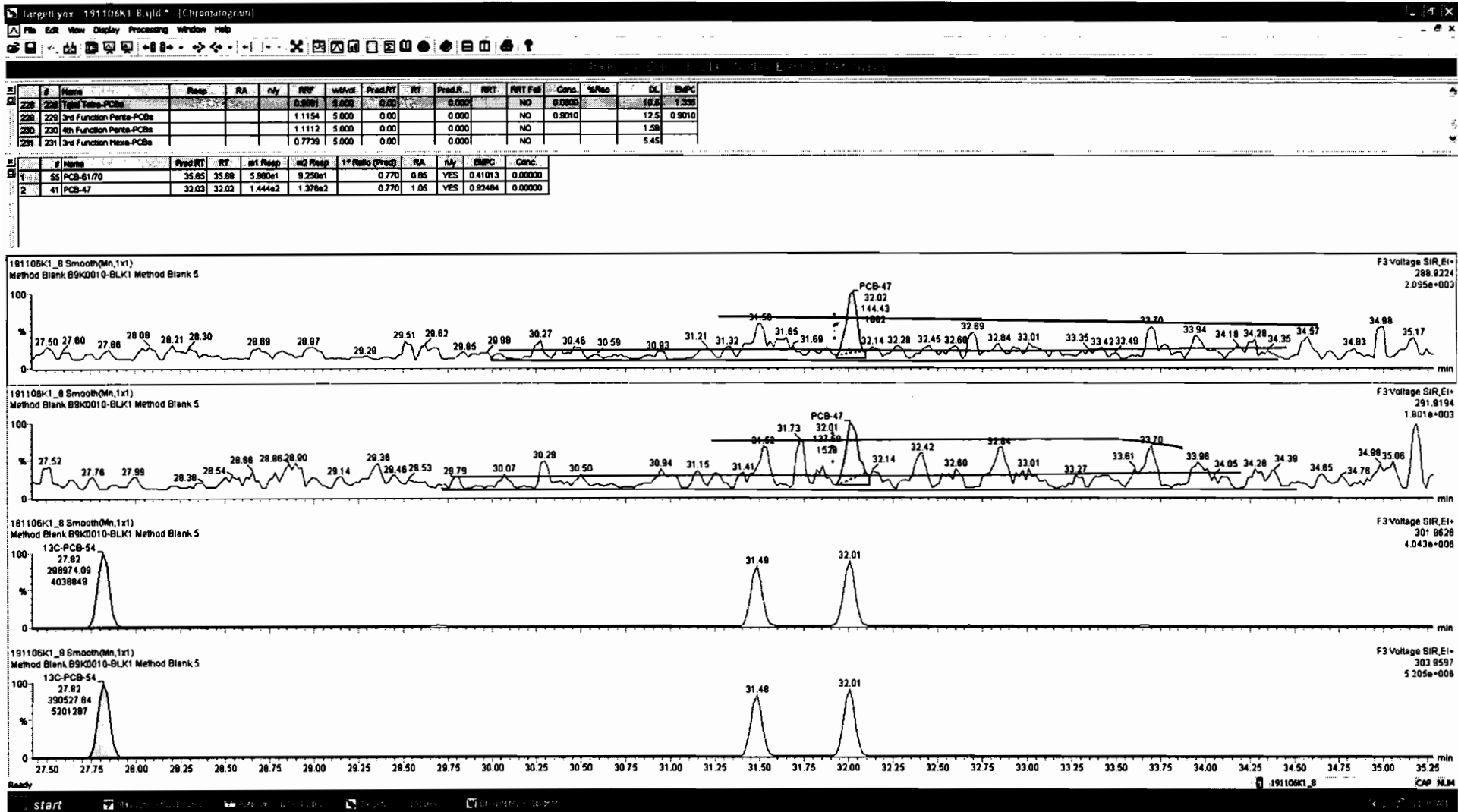
13C-PCB-52

191106K1\_8



191106K1\_8







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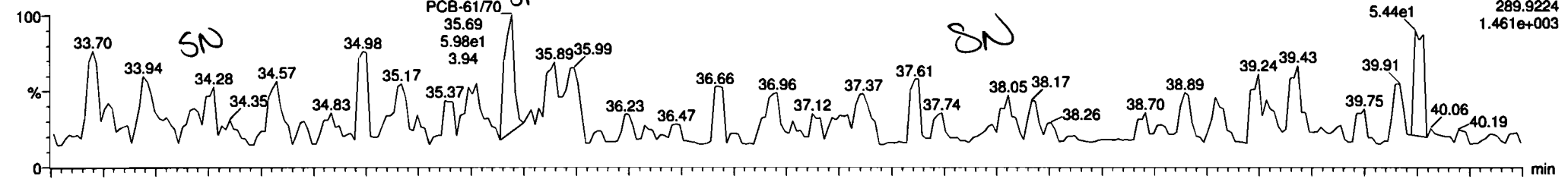
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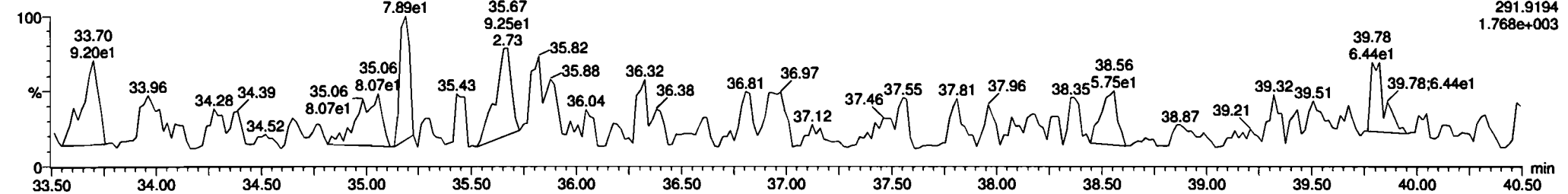
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PCB-68

191106K1\_8

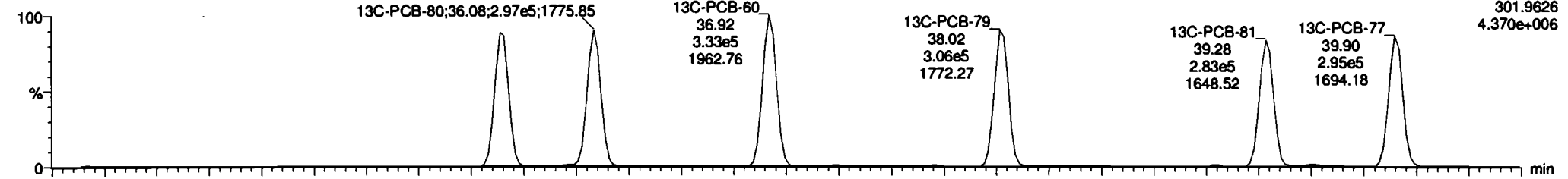


191106K1\_8

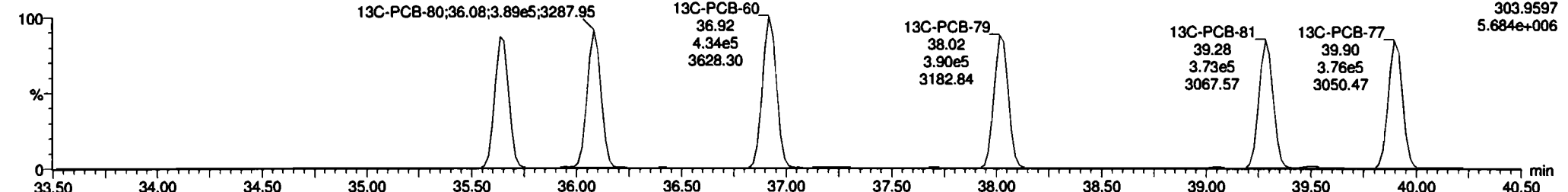


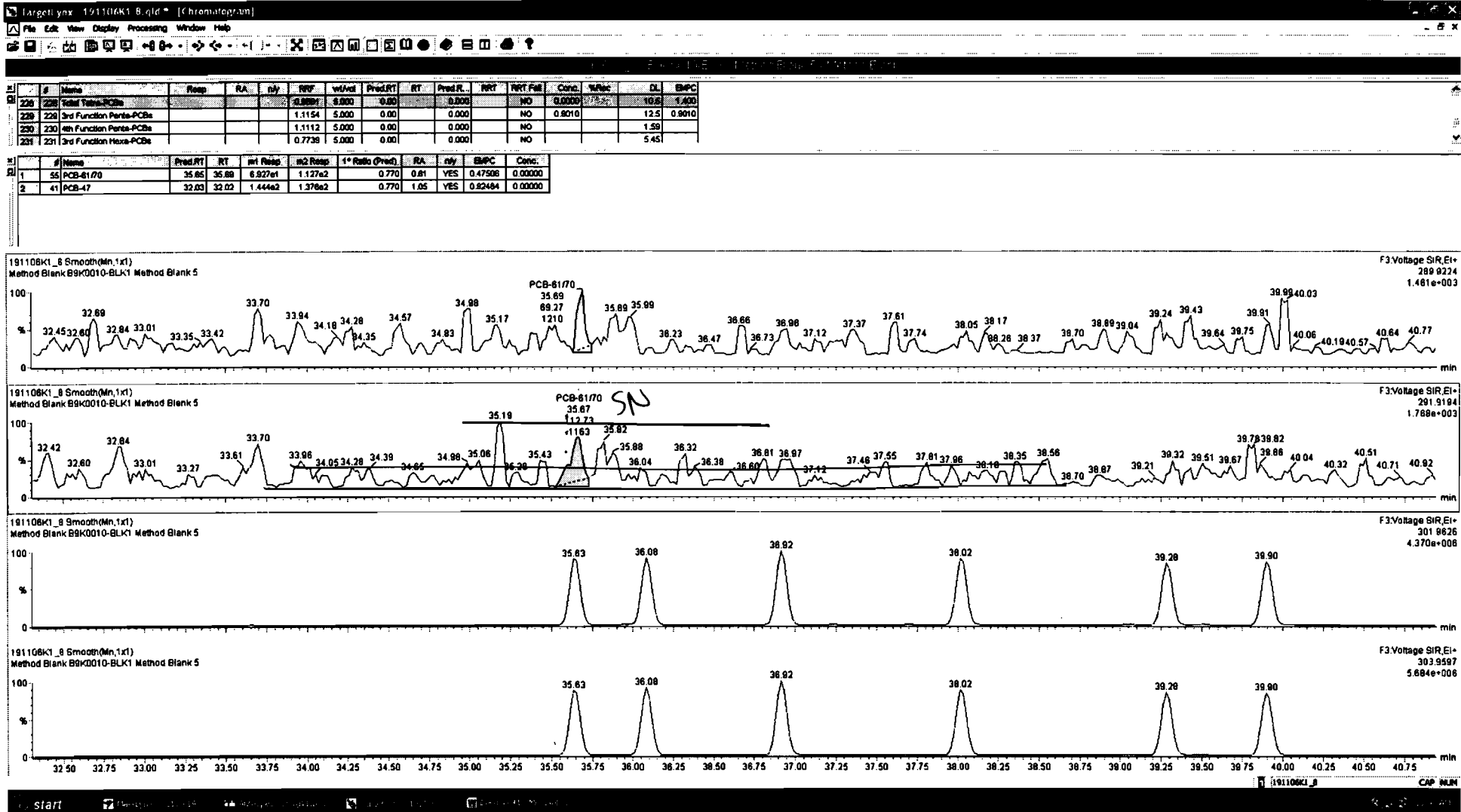
13C-PCB-60

191106K1\_8



191106K1\_8





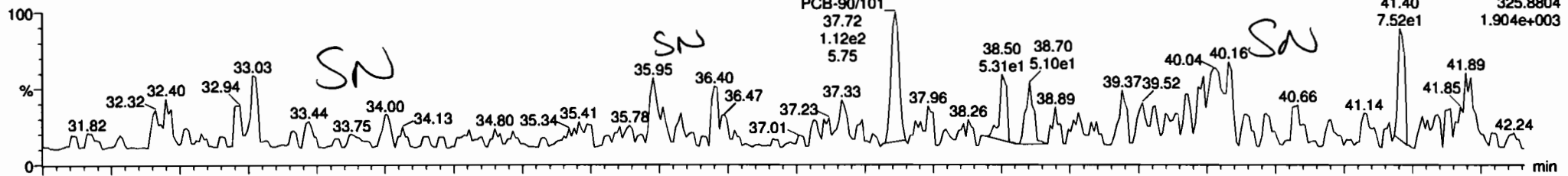
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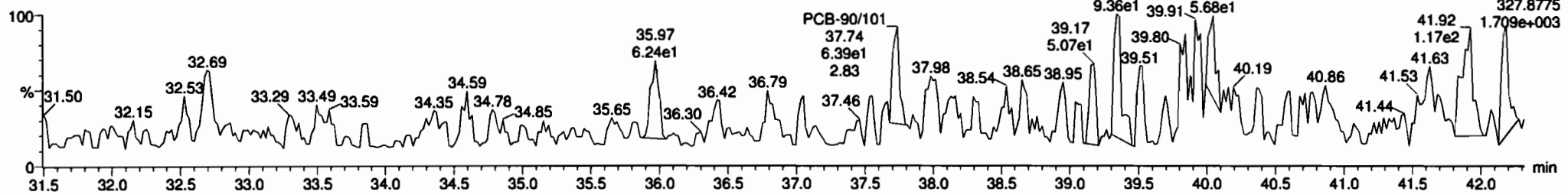
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PCB-104

191106K1\_8

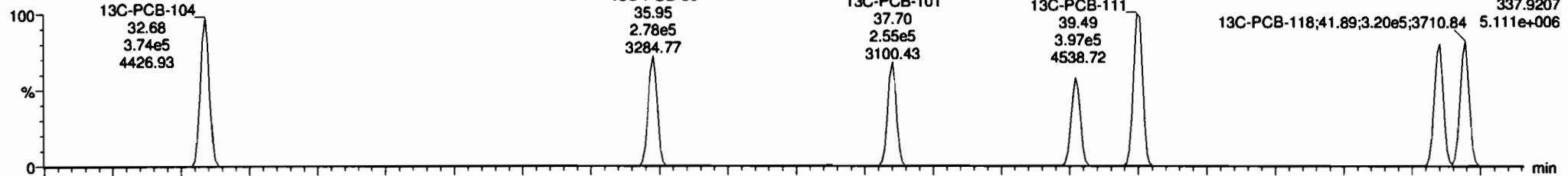


191106K1\_8

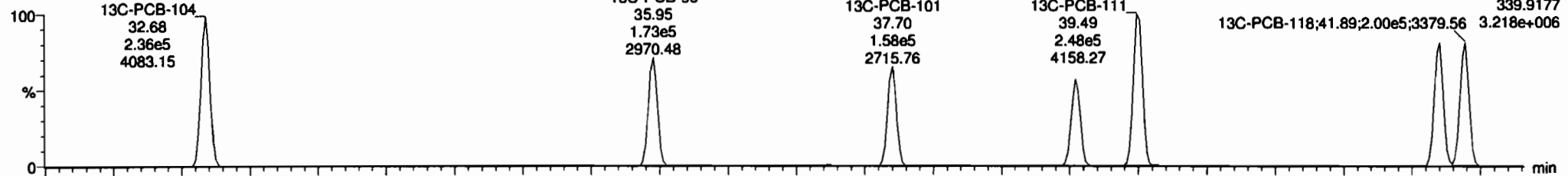


13C-PCB-104

191106K1\_8



191106K1\_8



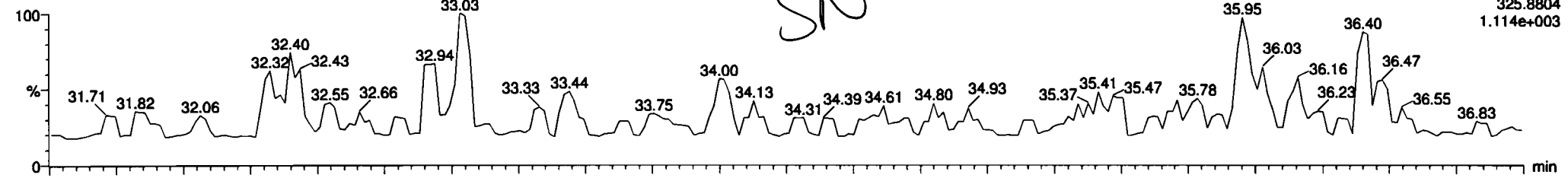
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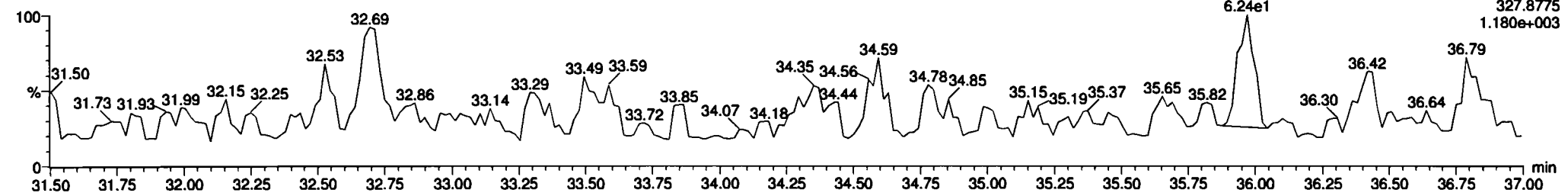
PCB-96

191106K1\_8



F3:Voltage SIR,EI+  
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1.114e+003

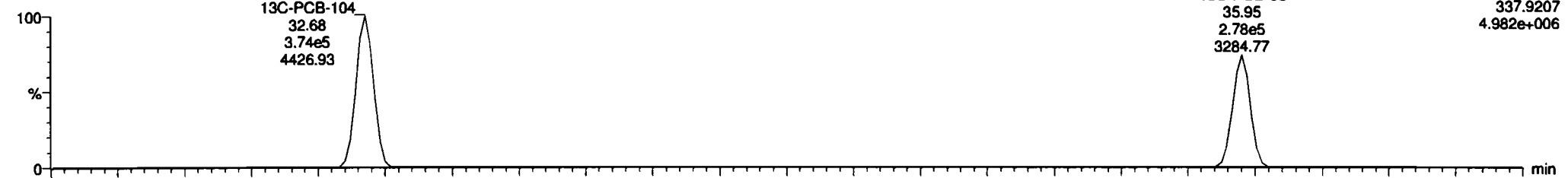
191106K1\_8



F3:Voltage SIR,EI+  
6.24e1  
327.8775  
1.180e+003

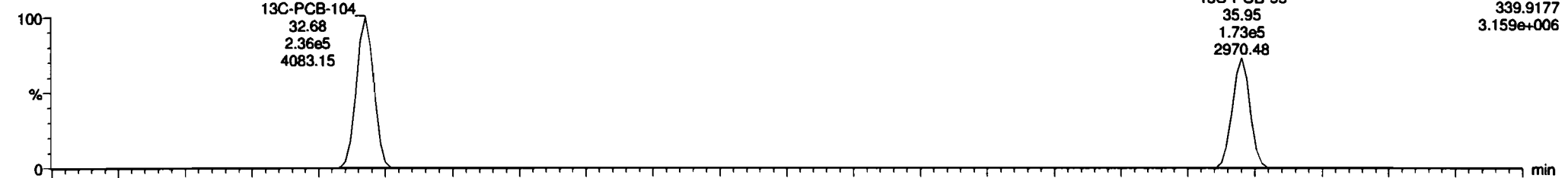
13C-PCB-95

191106K1\_8



F3:Voltage SIR,EI+  
337.9207  
4.982e+006

191106K1\_8



F3:Voltage SIR,EI+  
339.9177  
3.159e+006

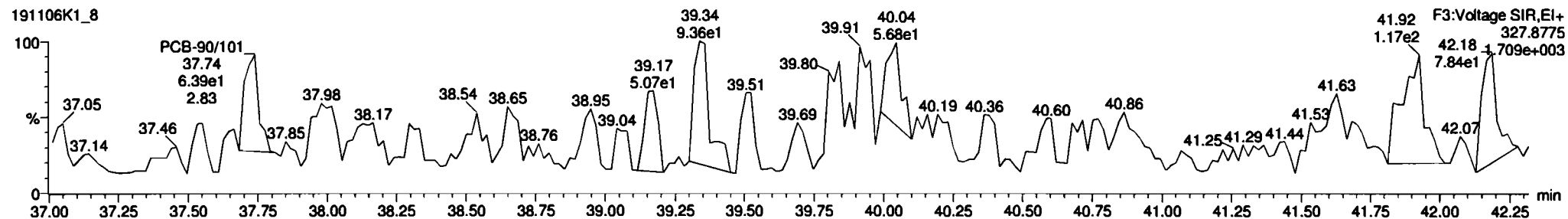
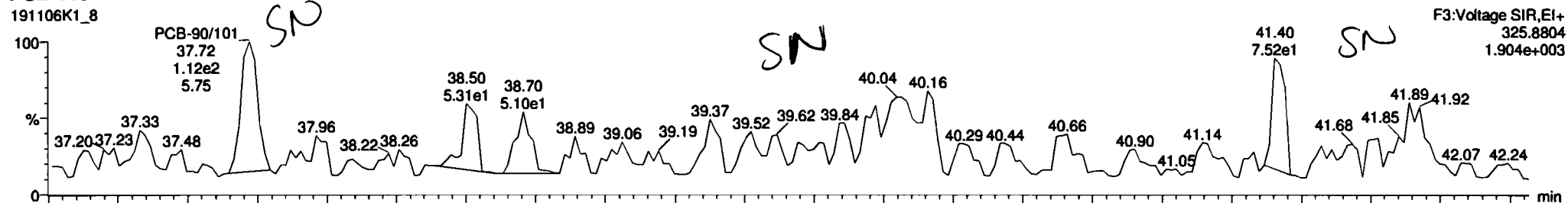
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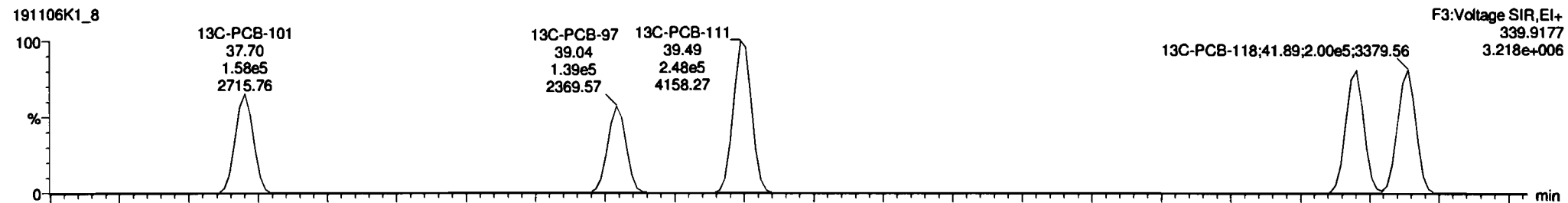
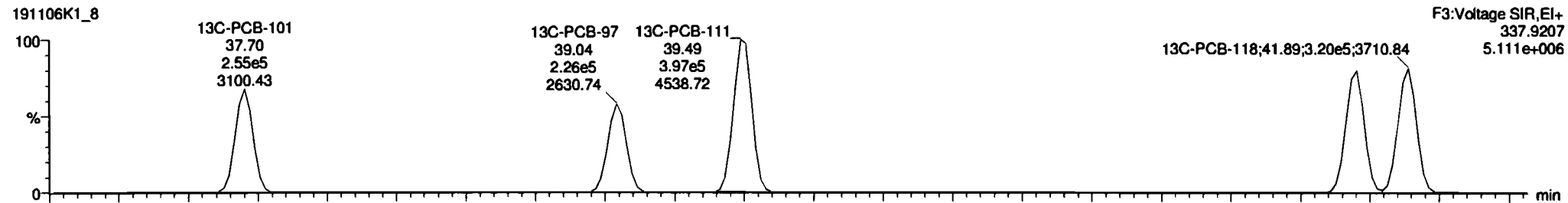
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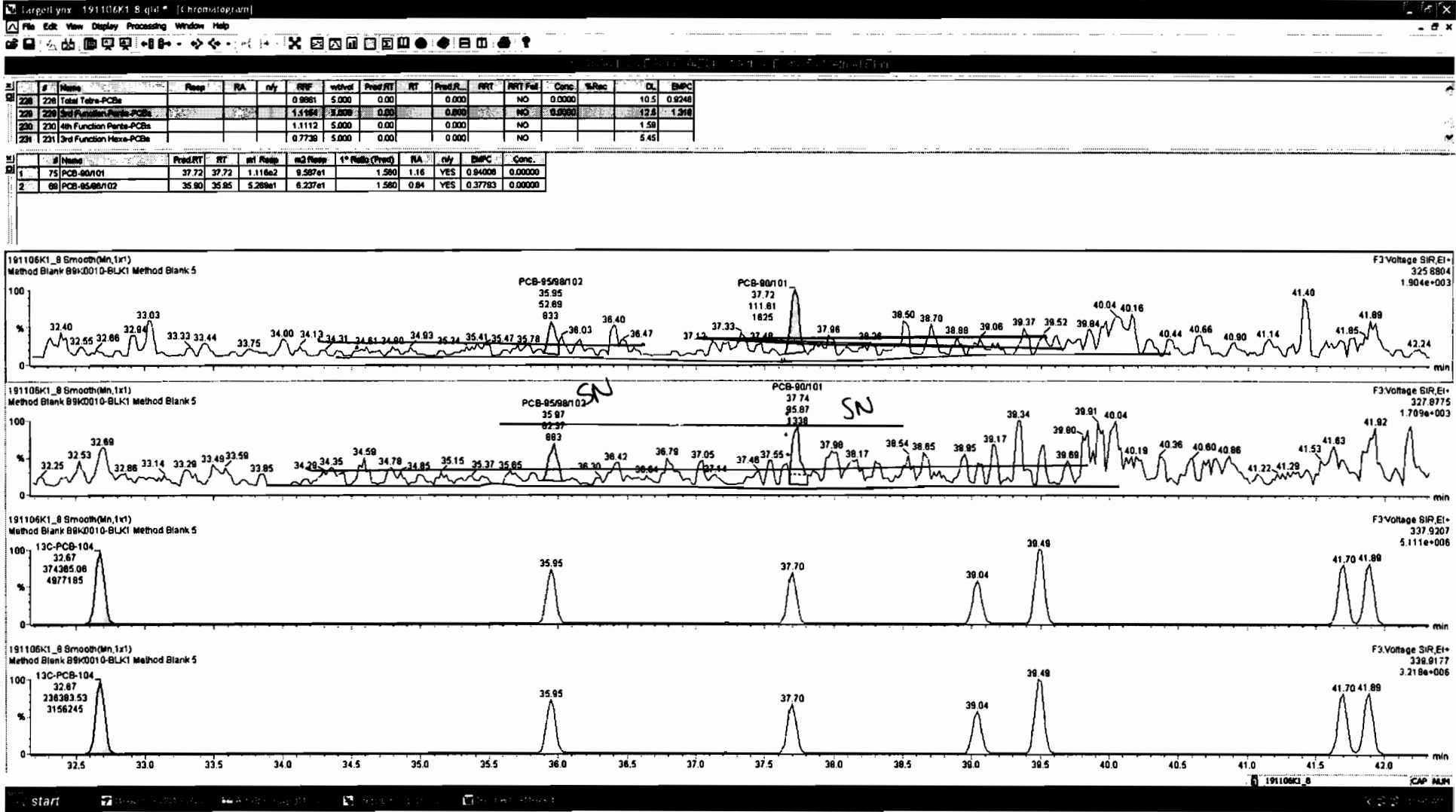
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PCB-119



13C-PCB-111



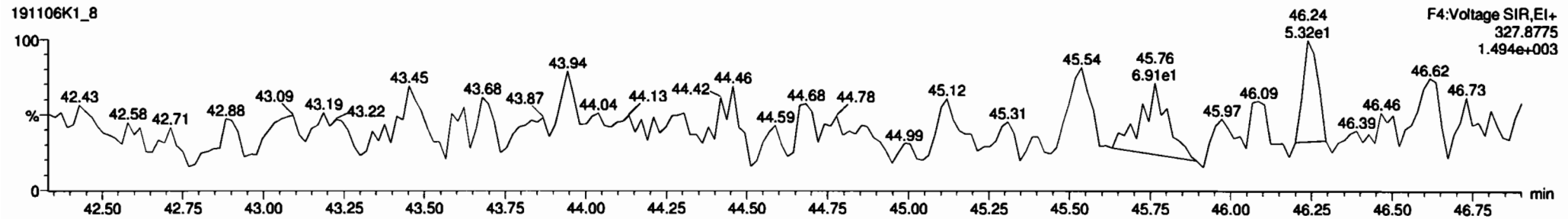
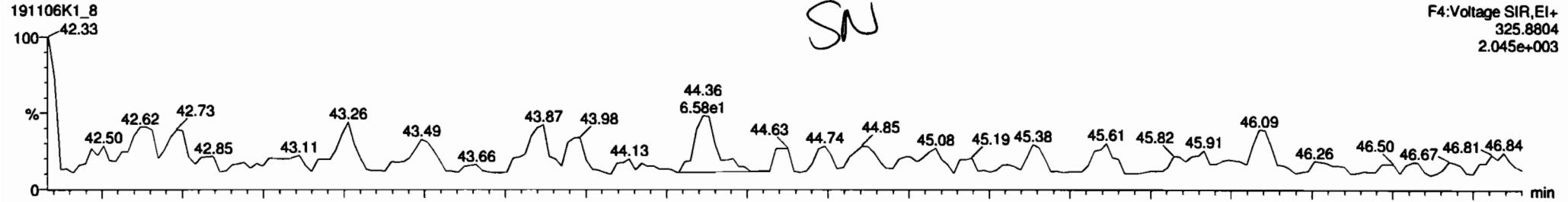


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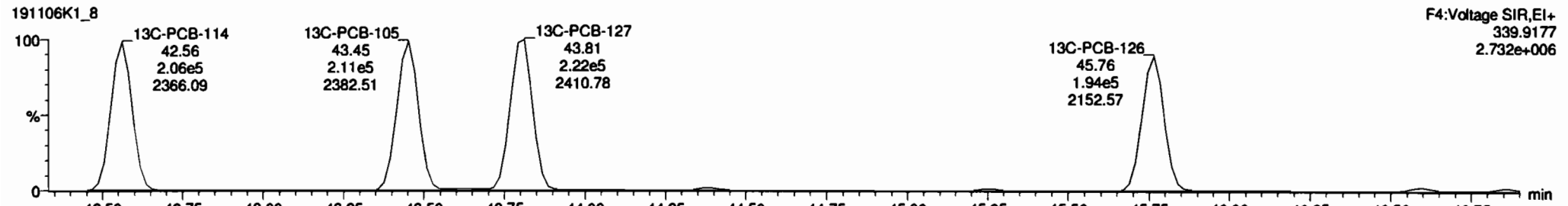
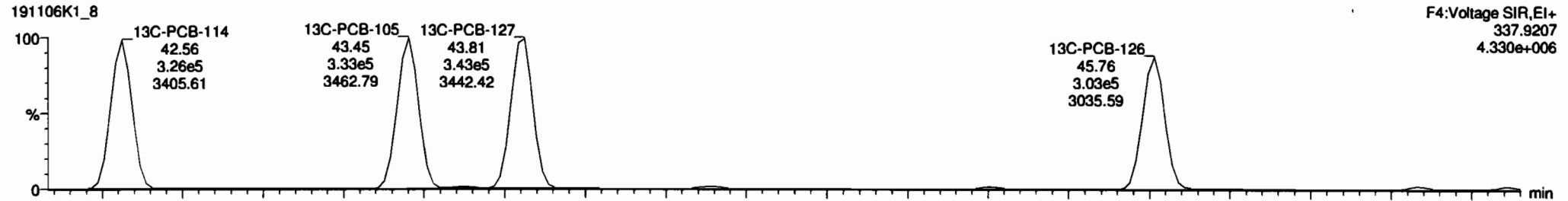
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PCB-114



13C-PCB-114



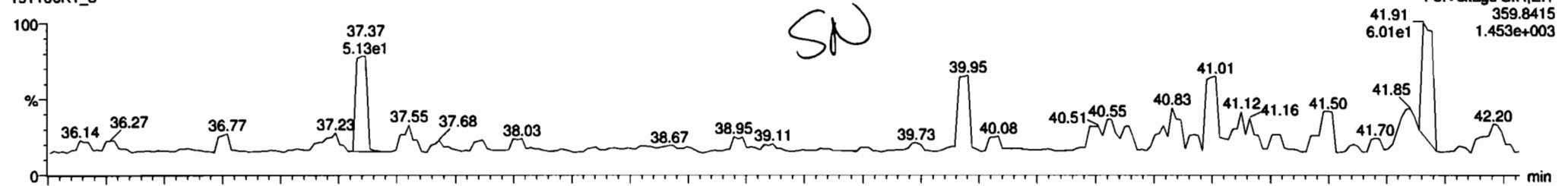
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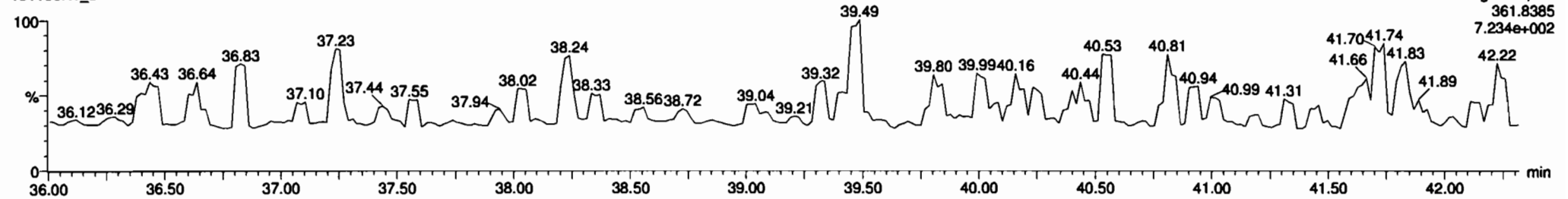
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PCB-155

191106K1\_8

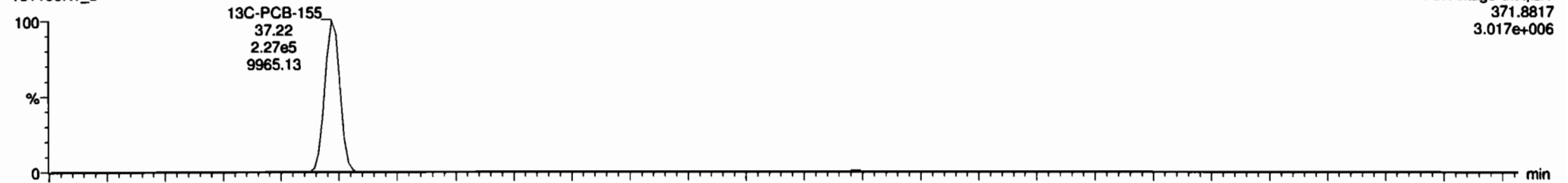


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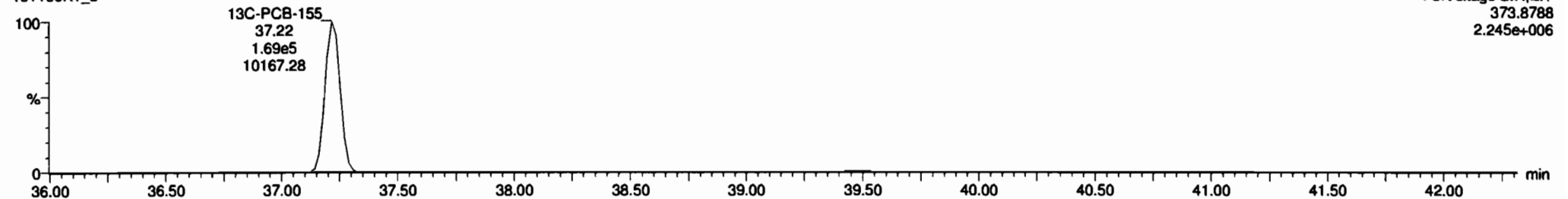


<sup>13</sup>C-PCB-155

191106K1\_8



191106K1\_8



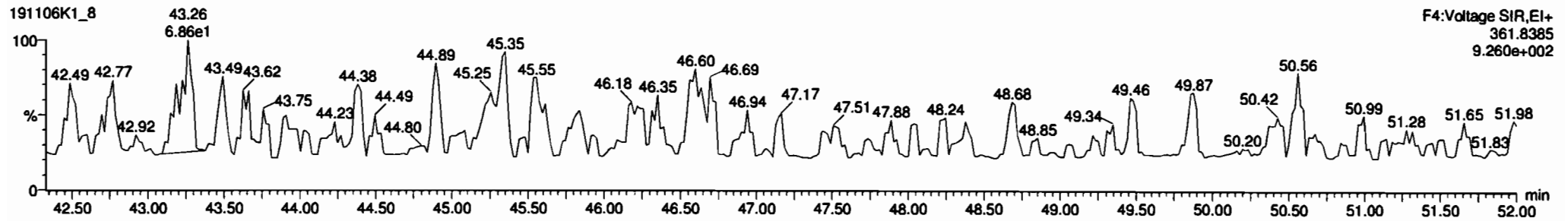
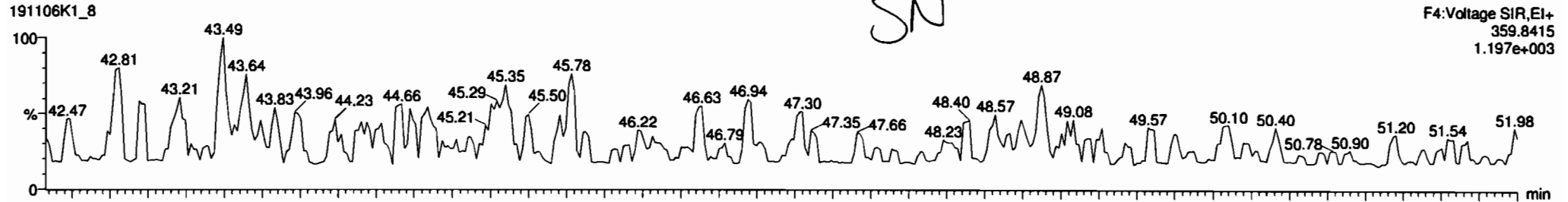


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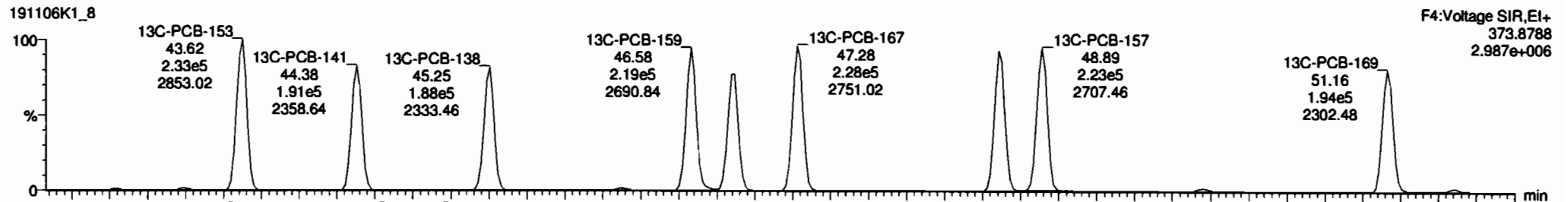
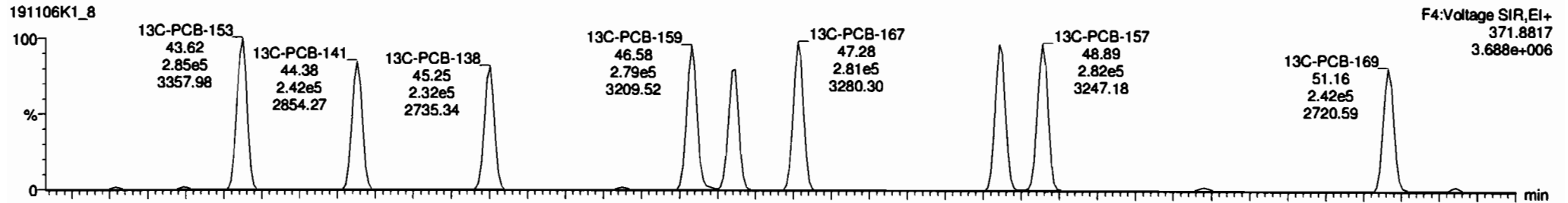
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PCB-134/143



13C-PCB-153



Dataset: Untitled

Last Altered: Thursday, November 07, 2019 08:56:58 Pacific Standard Time  
Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

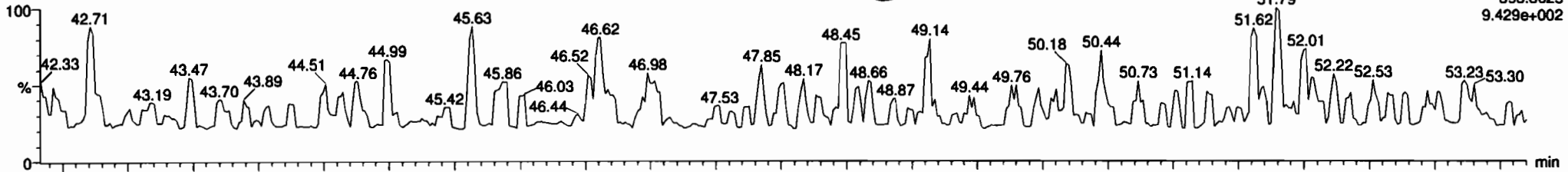
Name: 191106K1\_8, Date: 06-Nov-2019, Time: 20:04:48, ID: B9K0010-BLK1 Method Blank 5, Description: Method Blank

PCB-188

191106K1\_8

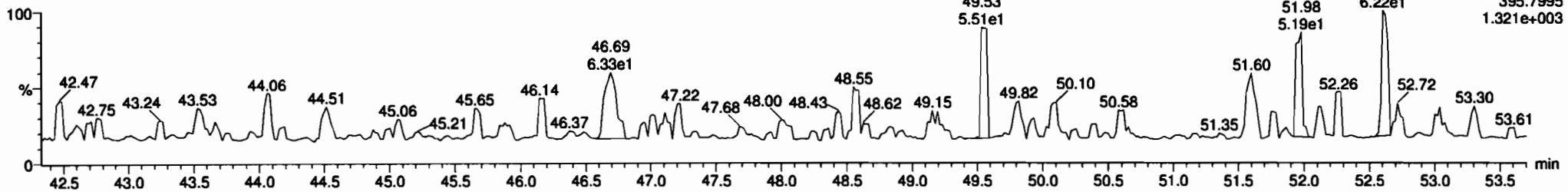
SN

F4:Voltage SIR,EI+  
393.8025  
9.429e+002



191106K1\_8

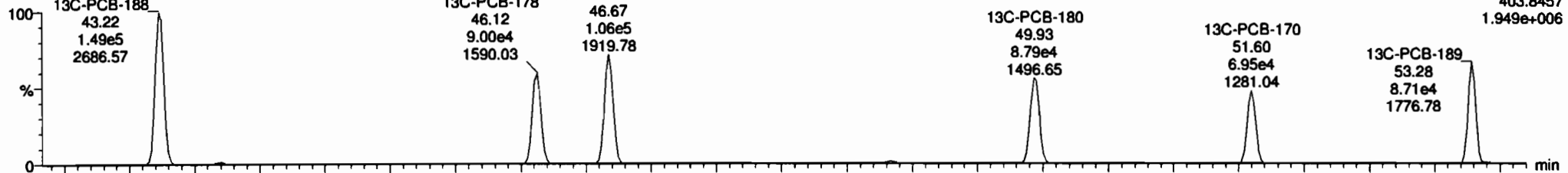
F4:Voltage SIR,EI+  
395.7995  
1.321e+003



13C-PCB-188

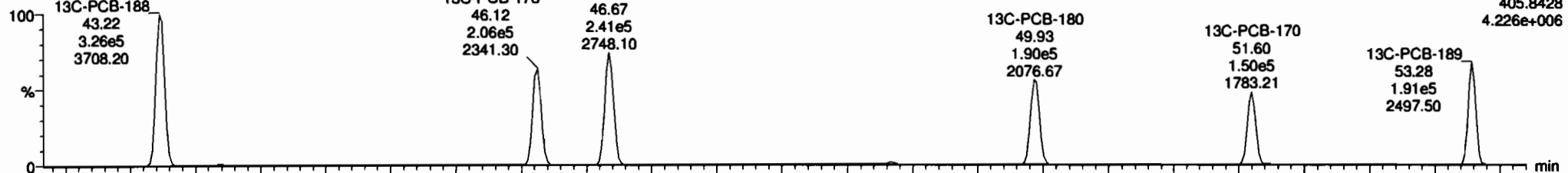
191106K1\_8

F4:Voltage SIR,EI+  
403.8457  
1.949e+006



191106K1\_8

F4:Voltage SIR,EI+  
405.8428  
4.226e+006



Dataset: Untitled

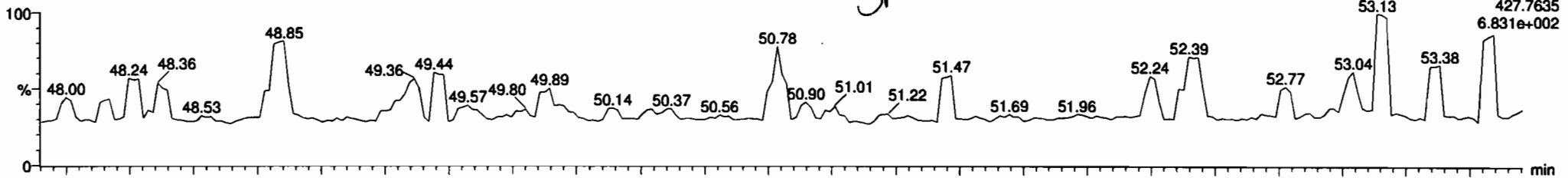
Last Altered: Thursday, November 07, 2019 08:56:58 Pacific Standard Time

Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

Name: 191106K1\_8, Date: 06-Nov-2019, Time: 20:04:48, ID: B9K0010-BLK1 Method Blank 5, Description: Method Blank

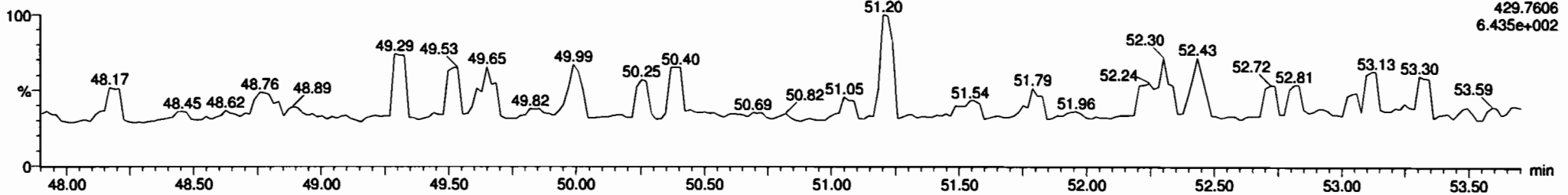
PCB-202

191106K1\_8



F4:Voltage SIR,EI+  
427.7635  
6.831e+002

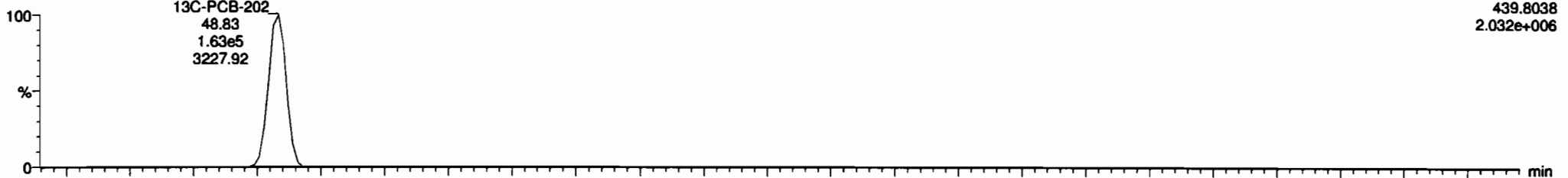
191106K1\_8



F4:Voltage SIR,EI+  
429.7606  
6.435e+002

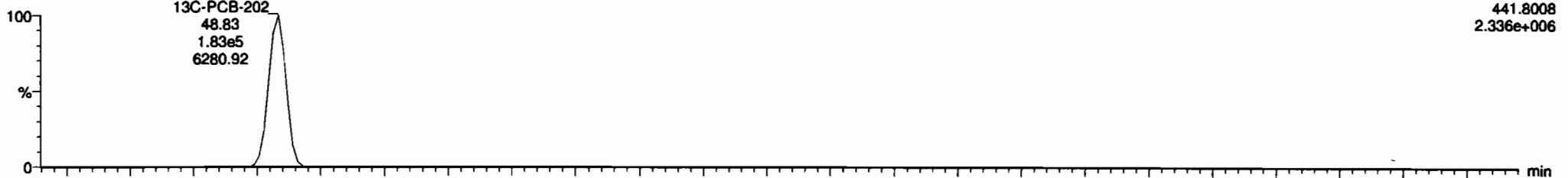
13C-PCB-202

191106K1\_8



F4:Voltage SIR,EI+  
439.8038  
2.032e+006

191106K1\_8



F4:Voltage SIR,EI+  
441.8008  
2.336e+006

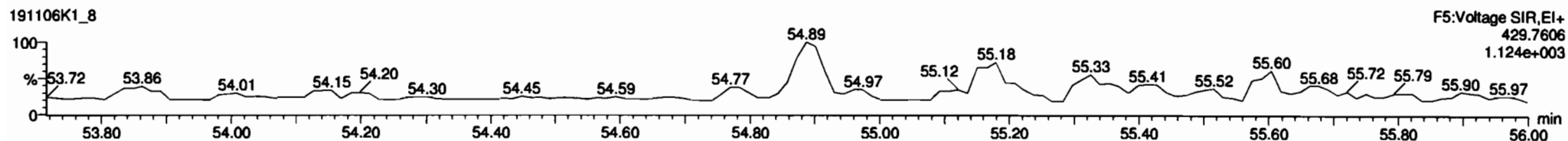
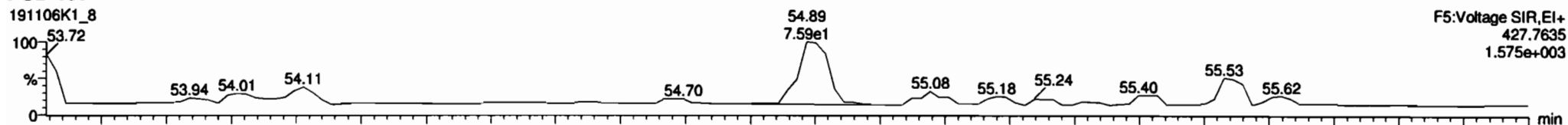
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Last Altered: Thursday, November 07, 2019 08:56:58 Pacific Standard Time

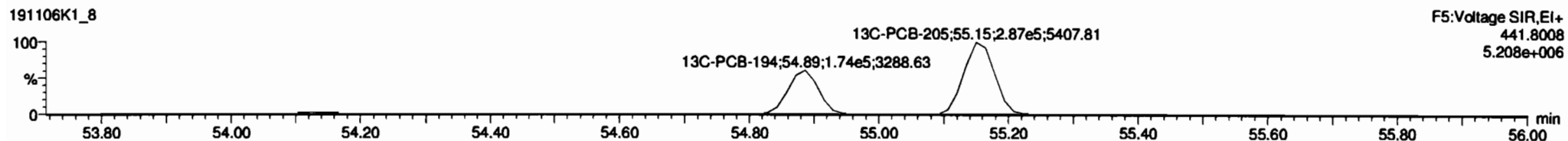
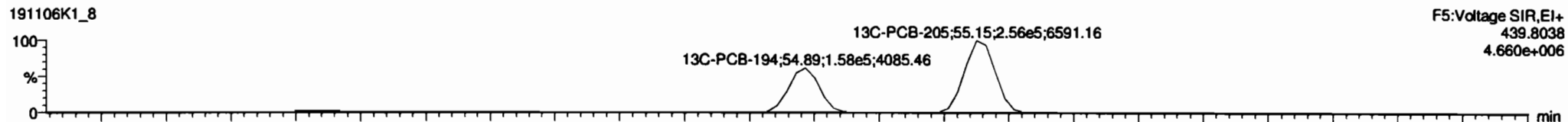
Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

Name: 191106K1\_8, Date: 06-Nov-2019, Time: 20:04:48, ID: B9K0010-BLK1 Method Blank 5, Description: Method Blank

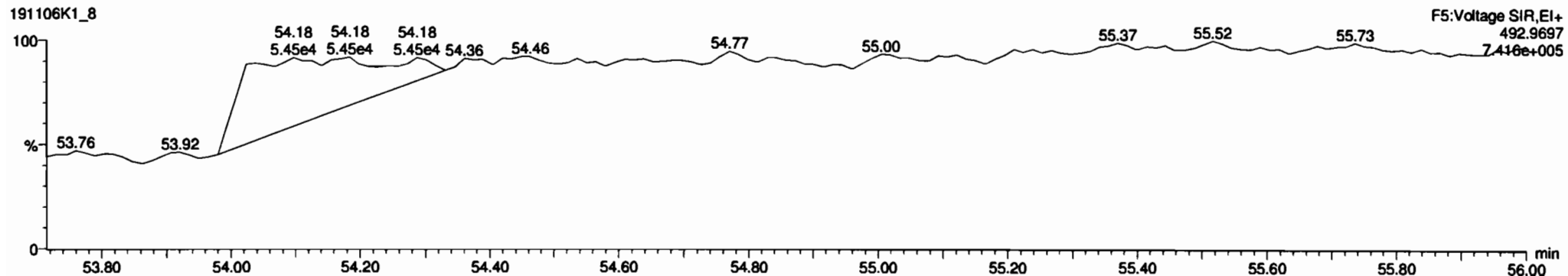
**PCB-195**

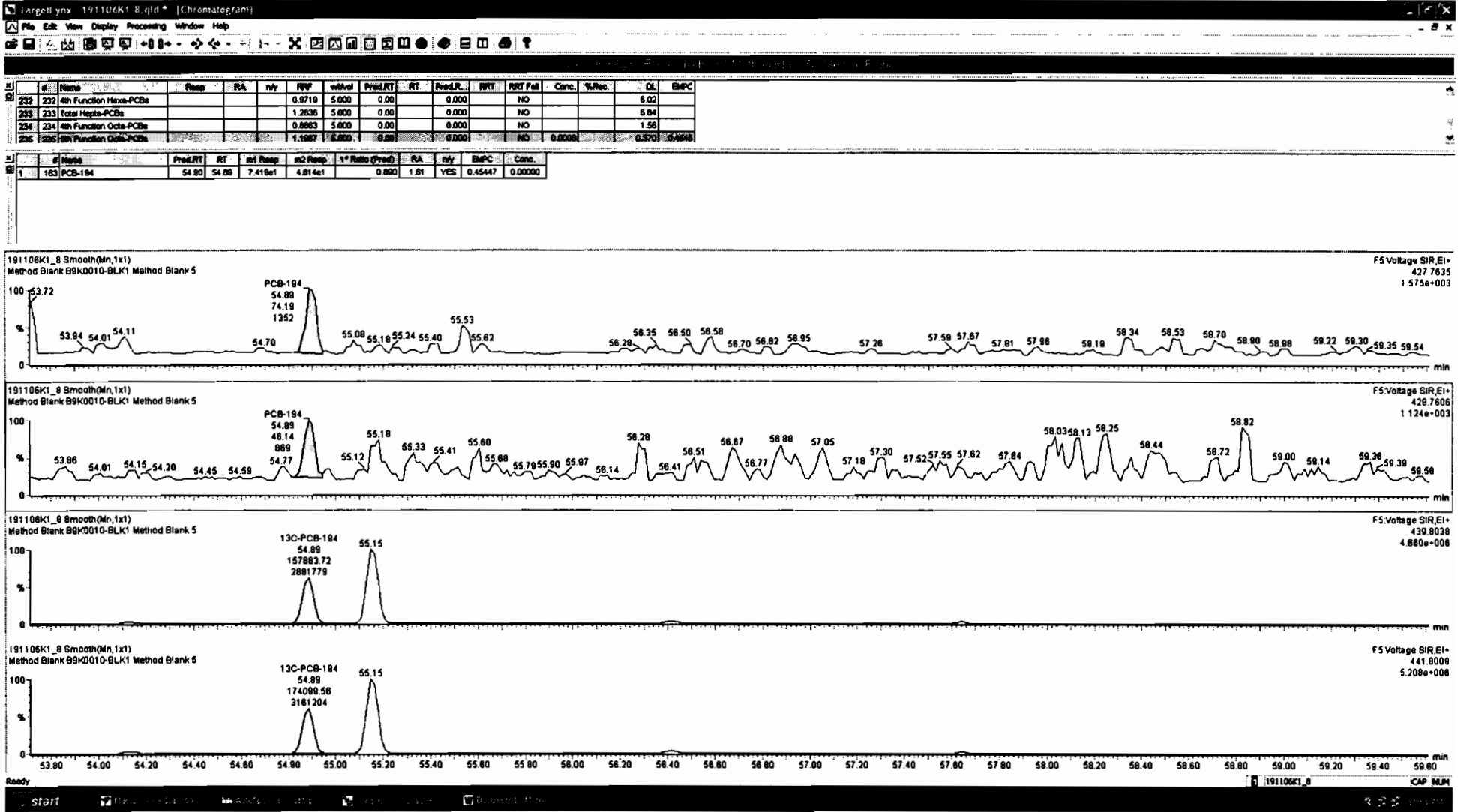


**13C-PCB-194**



**PFK5**





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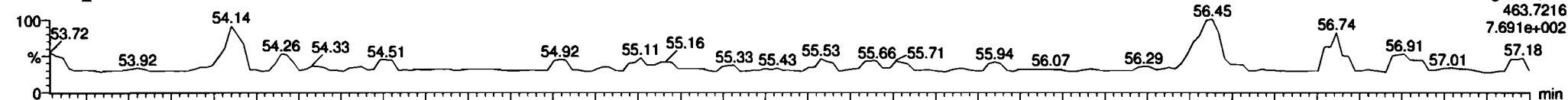
Last Altered: Thursday, November 07, 2019 08:56:58 Pacific Standard Time

Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

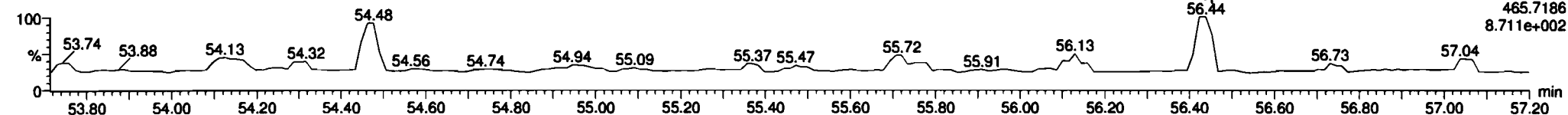
Name: 191106K1\_8, Date: 06-Nov-2019, Time: 20:04:48, ID: B9K0010-BLK1 Method Blank 5, Description: Method Blank

**PCB-208**

191106K1\_8

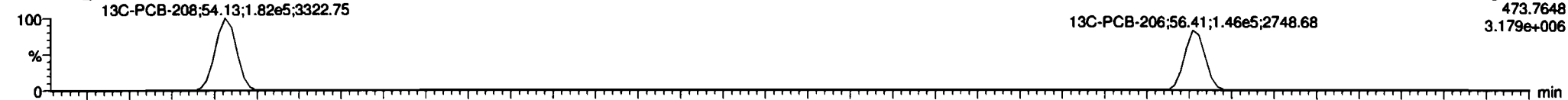


191106K1\_8

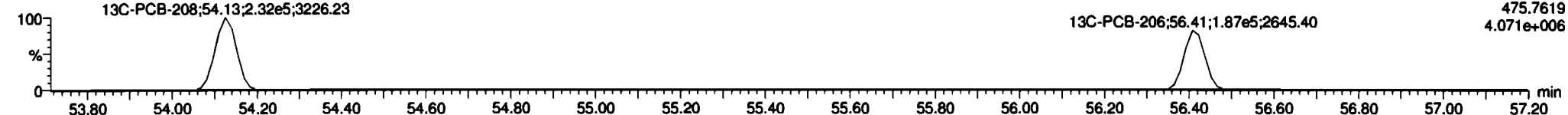


**13C-PCB-208**

191106K1\_8

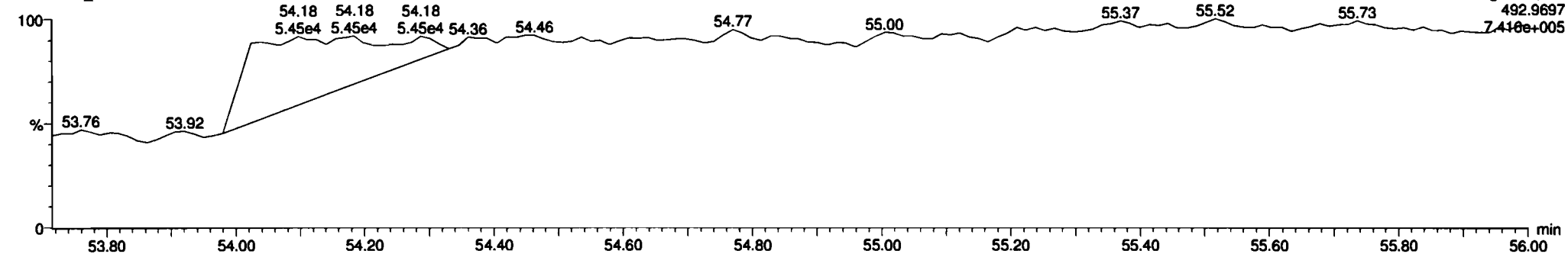


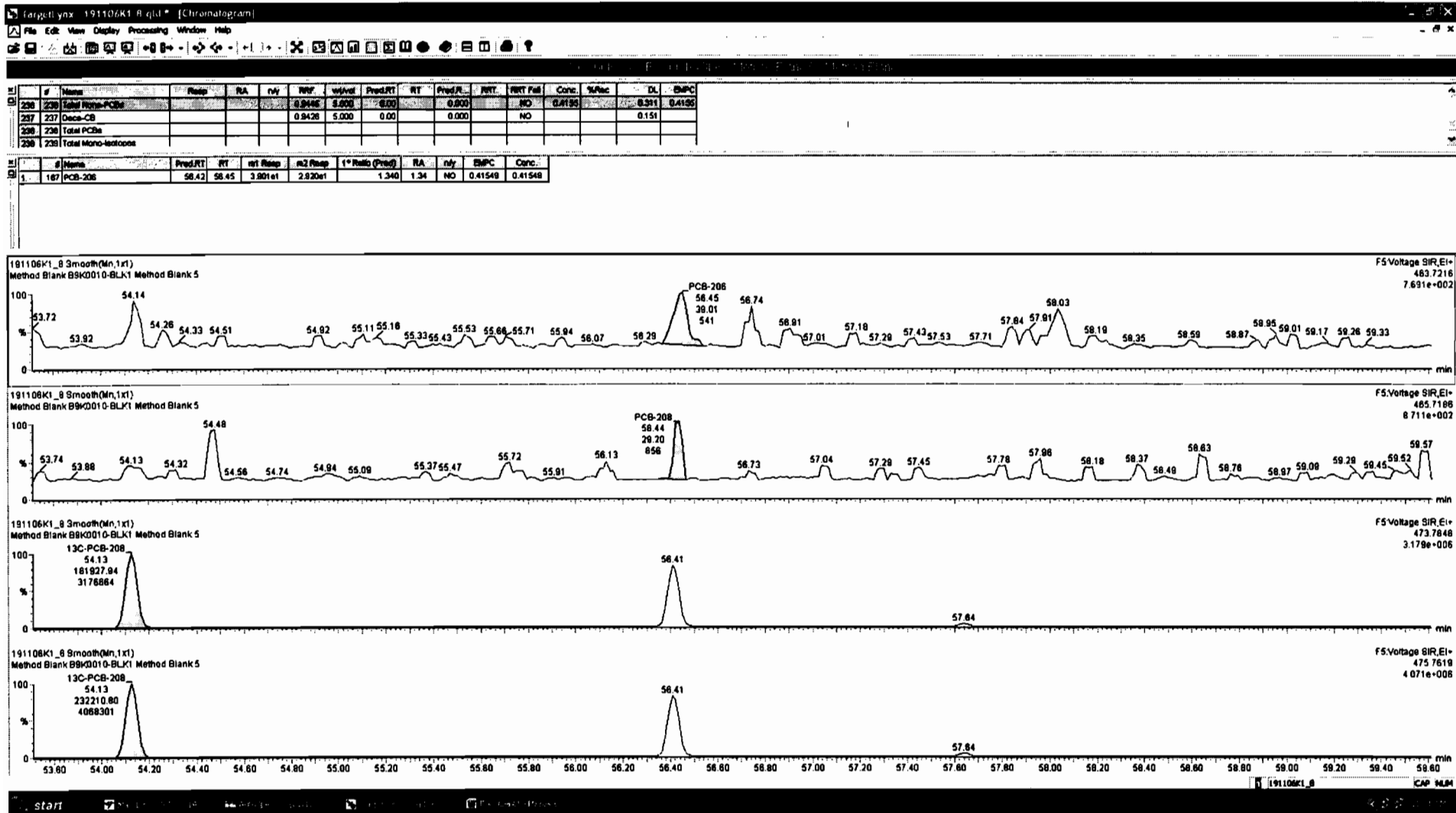
191106K1\_8



**PFK5**

191106K1\_8



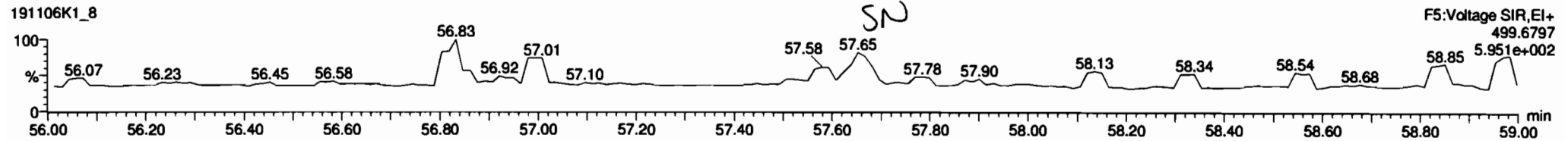
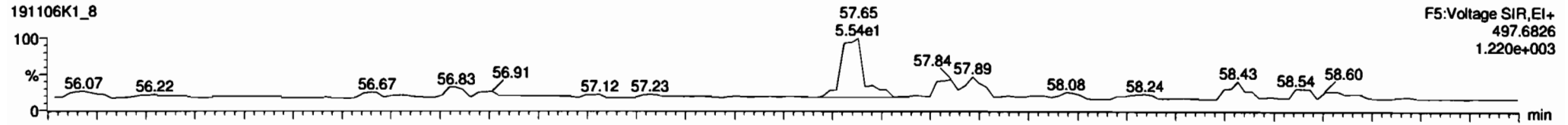


Dataset: Untitled

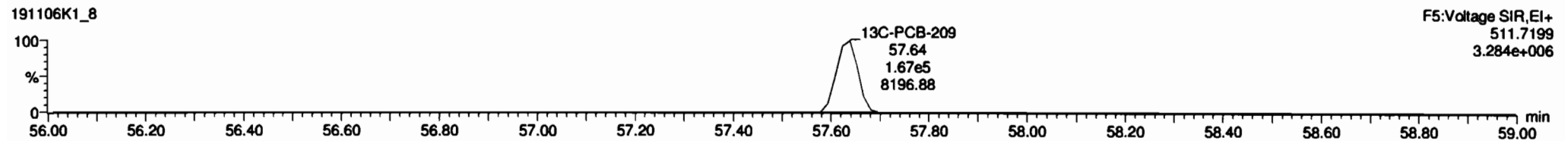
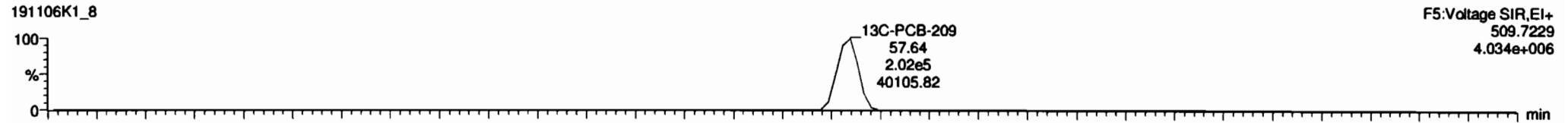
Last Altered: Thursday, November 07, 2019 08:56:58 Pacific Standard Time  
Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

Name: 191106K1\_8, Date: 06-Nov-2019, Time: 20:04:48, ID: B9K0010-BLK1 Method Blank 5, Description: Method Blank

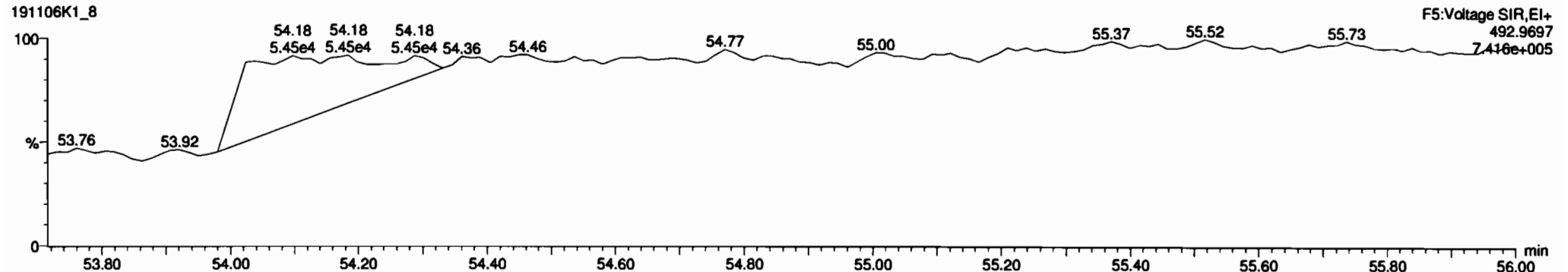
PCB-209



13C-PCB-209



PFK5





Dataset: U:\VG11.PRO\Results\191106K1\191106K1-4.qld

Last Altered: Thursday, November 07, 2019 11:41:25 Pacific Standard Time  
Printed: Thursday, November 07, 2019 11:41:49 Pacific Standard Time

*GRB 11/07/19 07:51/07/2020*

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-04-19.mdb 05 Nov 2019 14:32:48  
Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191106K1\_4, Date: 06-Nov-2019, Time: 15:59:24, ID: B9K0010-BS1 OPR 5, Description: OPR

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	3.15e5	3.19	NO	1.02	5.000	15.70	15.70	1.001	1.001	NO	1117		0.312	1117
2	2 PCB-2	3.21e5	3.19	NO	1.01	5.000	18.14	18.14	0.988	0.988	NO	1166		0.330	1166
3	3 PCB-3	3.14e5	3.14	NO	1.01	5.000	18.37	18.37	1.001	1.001	NO	1145		0.331	1145
4	4 PCB-4/10	4.07e5	1.58	NO	1.28	5.000	19.80	19.80	1.004	1.004	NO	2001		4.00	2001
5	5 PCB-7/9	4.99e5	1.54	NO	0.976	5.000	21.62	21.59	1.003	1.001	NO	2033		3.35	2033
6	6 PCB-6	2.84e5	1.59	NO	1.02	5.000	22.28	22.27	1.033	1.033	NO	1110		3.22	1110
7	7 PCB-5/8	5.81e5	1.56	NO	1.01	5.000	22.69	22.67	1.052	1.052	NO	2284		3.24	2284
8	8 PCB-14	3.05e5	1.55	NO	1.03	5.000	23.82	23.82	0.952	0.952	NO	1001		2.74	1001
9	9 PCB-11	3.29e5	1.58	NO	1.10	5.000	25.05	25.05	1.001	1.001	NO	1020		2.58	1020
10	10 PCB-12/13	6.34e5	1.58	NO	1.04	5.000	25.48	25.42	1.018	1.016	NO	2075		2.73	2075
11	11 PCB-15	3.17e5	1.57	NO	1.03	5.000	25.79	25.78	1.030	1.030	NO	1047		2.75	1047
12	12 PCB-19	1.88e5	0.99	NO	0.934	5.000	24.01	24.00	1.001	1.001	NO	1065		0.891	1065
13	13 PCB-30	3.12e5	0.98	NO	1.48	5.000	24.93	24.92	1.040	1.040	NO	1119		0.562	1119
14	14 PCB-18	2.08e5	0.97	NO	0.693	5.000	25.67	25.70	0.951	0.952	NO	1125		0.836	1125
15	15 PCB-17	1.94e5	0.98	NO	0.667	5.000	25.86	25.87	0.958	0.959	NO	1090		0.869	1090
16	16 PCB-24/27	5.36e5	0.98	NO	0.915	5.000	26.48	26.47	0.981	0.981	NO	2193		0.633	2193
17	17 PCB-16/32	4.52e5	0.98	NO	0.792	5.000	27.01	27.01	1.001	1.001	NO	2134		0.731	2134
18	18 PCB-34	2.51e5	1.07	NO	0.987	5.000	27.82	27.82	0.959	0.959	NO	978.1		1.05	978.1
19	19 PCB-23	2.26e5	1.06	NO	0.974	5.000	27.92	27.91	0.962	0.962	NO	891.5		1.06	891.5
20	20 PCB-29	2.30e5	1.04	NO	0.953	5.000	28.15	28.17	0.970	0.971	NO	930.7		1.09	930.7
21	21 PCB-26	2.37e5	1.05	NO	1.00	5.000	28.40	28.40	0.979	0.979	NO	913.3		1.03	913.3
22	22 PCB-25	2.44e5	1.06	NO	0.978	5.000	28.55	28.56	0.984	0.985	NO	961.7		1.06	961.7
23	23 PCB-31	2.83e5	1.07	NO	1.12	5.000	28.94	28.92	0.998	0.997	NO	969.3		0.921	969.3
24	24 PCB-28	2.78e5	1.07	NO	1.11	5.000	29.03	29.03	1.001	1.001	NO	966.8		0.936	966.8
25	25 PCB-20/21/33	7.56e5	1.08	NO	1.00	5.000	29.67	29.66	1.023	1.022	NO	2900		1.03	2900
26	26 PCB-22	2.82e5	1.05	NO	1.03	5.000	30.16	30.13	1.039	1.038	NO	1052		1.00	1052
27	27 PCB-36	3.12e5	1.08	NO	1.18	5.000	30.71	30.76	0.930	0.932	NO	981.1		0.844	981.1
28	28 PCB-39	2.91e5	1.06	NO	1.08	5.000	31.21	31.24	0.945	0.946	NO	991.8		0.916	991.8
29	29 PCB-38	3.00e5	1.06	NO	1.13	5.000	32.02	32.04	0.970	0.971	NO	982.0		0.880	982.0
30	30 PCB-35	3.07e5	1.07	NO	1.13	5.000	32.57	32.58	0.987	0.987	NO	1004		0.877	1004
31	31 PCB-37	3.09e5	1.07	NO	1.11	5.000	33.05	33.03	1.001	1.001	NO	1031		0.898	1031
32	32 PCB-54	2.27e5	0.75	NO	0.996	5.000	27.86	27.86	1.001	1.001	NO	1033		0.942	1033

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-4.qld

Last Altered: Thursday, November 07, 2019 11:41:25 Pacific Standard Time  
Printed: Thursday, November 07, 2019 11:41:49 Pacific Standard Time

Name: 191106K1\_4, Date: 06-Nov-2019, Time: 15:59:24, ID: B9K0010-BS1 OPR 5, Description: OPR

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50	1.91e5	0.73	NO	0.781	5.000	29.10	29.07	1.045	1.044	NO	1106		1.20	1106
34	34 PCB-53	1.76e5	0.74	NO	0.955	5.000	29.72	29.74	0.943	0.944	NO	946.8		1.13	946.8
35	35 PCB-51	2.00e5	0.75	NO	1.02	5.000	30.07	30.09	0.955	0.955	NO	1007		1.05	1007
36	36 PCB-45	1.62e5	0.73	NO	0.808	5.000	30.51	30.54	0.969	0.969	NO	1031		1.33	1031
37	37 PCB-46	1.60e5	0.75	NO	0.754	5.000	31.03	31.04	0.985	0.985	NO	1093		1.43	1093
38	38 PCB-52/69	4.66e5	0.75	NO	1.09	5.000	31.54	31.54	1.001	1.001	NO	2197		0.987	2197
39	39 PCB-73	2.64e5	0.74	NO	1.29	5.000	31.66	31.65	1.005	1.005	NO	1055		0.836	1055
40	40 PCB-43/49	3.96e5	0.74	NO	0.940	5.000	31.83	31.84	1.010	1.011	NO	2169		1.15	2169
41	41 PCB-47	2.03e5	0.74	NO	0.869	5.000	32.04	32.04	1.001	1.001	NO	1126		1.16	1126
42	42 PCB-48/75	4.55e5	0.74	NO	1.02	5.000	32.16	32.15	1.004	1.004	NO	2137		0.987	2137
43	43 PCB-65	2.50e5	0.74	NO	1.11	5.000	32.43	32.43	1.013	1.013	NO	1084		0.912	1084
44	44 PCB-62	2.33e5	0.74	NO	1.07	5.000	32.54	32.54	1.016	1.016	NO	1051		0.949	1051
45	45 PCB-44	1.73e5	0.75	NO	0.761	5.000	32.88	32.86	1.027	1.026	NO	1091		1.33	1091
46	46 PCB-42/59	4.33e5	0.75	NO	0.960	5.000	33.09	33.10	1.033	1.034	NO	2167		1.05	2167
47	47 PCB-41/64/71/72	9.72e5	0.75	NO	1.08	5.000	33.72	33.70	1.053	1.052	NO	4319		0.935	4319
48	48 PCB-68	2.50e5	0.74	NO	1.11	5.000	34.01	33.98	1.062	1.061	NO	1086		0.912	1086
49	49 PCB-40	1.20e5	0.77	NO	0.577	5.000	34.23	34.20	1.069	1.068	NO	1001		1.75	1001
50	50 PCB-57	2.55e5	0.75	NO	1.05	5.000	34.55	34.57	0.969	0.969	NO	1125		0.960	1125
51	51 PCB-67	2.45e5	0.73	NO	0.993	5.000	34.88	34.89	0.978	0.978	NO	1143		1.01	1143
52	52 PCB-58	2.68e5	0.73	NO	1.11	5.000	35.01	35.00	0.981	0.981	NO	1115		0.904	1115
53	53 PCB-63	2.27e5	0.74	NO	0.962	5.000	35.16	35.17	0.986	0.986	NO	1094		1.05	1094
54	54 PCB-74	2.46e5	0.75	NO	1.07	5.000	35.47	35.47	0.994	0.994	NO	1070		0.944	1070
55	55 PCB-61/70	4.54e5	0.74	NO	0.986	5.000	35.69	35.60	1.000	0.998	NO	2134		1.02	2134
56	56 PCB-76/66	4.85e5	0.74	NO	1.07	5.000	35.85	35.86	1.005	1.005	NO	2109		0.943	2109
57	57 PCB-80	2.56e5	0.73	NO	1.08	5.000	36.12	36.12	1.001	1.000	NO	1057		0.900	1057
58	58 PCB-55	2.59e5	0.72	NO	1.07	5.000	36.44	36.45	1.010	1.010	NO	1082		0.914	1082
59	59 PCB-56/60	4.70e5	0.74	NO	0.934	5.000	36.98	36.96	1.024	1.024	NO	2248		1.04	2248
60	60 PCB-79	2.79e5	0.74	NO	1.04	5.000	38.08	38.07	1.055	1.055	NO	1195		0.934	1195
61	61 PCB-78	2.63e5	0.73	NO	1.03	5.000	38.78	38.78	0.987	0.987	NO	1077		0.900	1077
62	62 PCB-81	2.40e5	0.74	NO	0.933	5.000	39.32	39.32	1.000	1.000	NO	1087		0.995	1087
63	63 PCB-77	2.62e5	0.75	NO	1.03	5.000	39.93	39.93	1.000	1.000	NO	1108		0.935	1108
64	64 PCB-104	2.17e5	1.59	NO	0.995	5.000	32.71	32.71	1.001	1.001	NO	1103		0.673	1103
65	65 PCB-96	2.03e5	1.57	NO	0.996	5.000	34.04	34.01	1.041	1.040	NO	1031		0.672	1031
66	66 PCB-103	1.57e5	1.48	NO	0.774	5.000	34.61	34.59	1.059	1.058	NO	1028		0.864	1028
67	67 PCB-100	1.62e5	1.50	NO	0.778	5.000	34.99	34.95	1.070	1.069	NO	1052		0.860	1052
68	68 PCB-94	1.21e5	1.47	NO	0.773	5.000	35.45	35.43	0.985	0.985	NO	1217		1.33	1217

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-4.qld

Last Altered: Thursday, November 07, 2019 11:41:25 Pacific Standard Time  
Printed: Thursday, November 07, 2019 11:41:49 Pacific Standard Time

Name: 191106K1\_4, Date: 06-Nov-2019, Time: 15:59:24, ID: B9K0010-BS1 OPR 5, Description: OPR

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102	4.82e5	1.53	NO	1.01	5.000	35.92	35.91	0.999	0.998	NO	3697		1.01	3697
70	70 PCB-93	1.06e5	1.54	NO	0.841	5.000	36.05	36.06	1.002	1.003	NO	981.4		1.22	981.4
71	71 PCB-88/91	2.83e5	1.52	NO	0.890	5.000	36.40	36.40	1.012	1.012	NO	2472		1.16	2472
72	72 PCB-121	2.07e5	1.52	NO	1.39	5.000	36.52	36.49	1.015	1.015	NO	1161		0.742	1161
73	73 PCB-84/92	2.81e5	1.64	NO	0.879	5.000	37.35	37.35	0.990	0.990	NO	2377		1.12	2377
74	74 PCB-89	1.54e5	1.54	NO	0.959	5.000	37.53	37.53	0.995	0.995	NO	1194		1.03	1194
75	75 PCB-90/101	2.97e5	1.54	NO	0.944	5.000	37.74	37.74	1.000	1.000	NO	2338		1.04	2338
76	76 PCB-113	2.10e5	1.53	NO	1.23	5.000	37.99	37.98	1.007	1.007	NO	1267		0.799	1267
77	77 PCB-99	1.77e5	1.55	NO	1.12	5.000	38.09	38.07	1.010	1.009	NO	1173		0.879	1173
78	78 PCB-119	2.17e5	1.52	NO	1.47	5.000	38.55	38.56	0.987	0.987	NO	1241		0.784	1241
79	79 PCB-108/112	3.58e5	1.56	NO	1.25	5.000	38.71	38.71	0.991	0.991	NO	2413		0.923	2413
80	80 PCB-83	2.18e5	1.54	NO	1.55	5.000	38.86	38.89	0.995	0.996	NO	1189		0.746	1189
81	81 PCB-97	1.55e5	1.47	NO	1.07	5.000	39.10	39.10	1.001	1.001	NO	1213		1.07	1213
82	82 PCB-86	1.45e5	1.47	NO	0.996	5.000	39.25	39.24	1.005	1.005	NO	1226		1.16	1226
83	83 PCB-87/117/125	5.76e5	1.53	NO	1.33	5.000	39.35	39.38	1.008	1.008	NO	3643		0.866	3643
84	84 PCB-111/115	4.66e5	1.51	NO	1.60	5.000	39.53	39.54	1.012	1.012	NO	2453		0.721	2453
85	85 PCB-85/116	3.50e5	1.57	NO	1.22	5.000	39.65	39.65	1.015	1.015	NO	2429		0.949	2429
86	86 PCB-120	2.36e5	1.51	NO	1.68	5.000	39.92	39.92	1.022	1.022	NO	1186		0.686	1186
87	87 PCB-110	2.10e5	1.52	NO	1.49	5.000	40.06	40.06	1.026	1.026	NO	1190		0.777	1190
88	88 PCB-82	1.24e5	1.54	NO	0.674	5.000	40.70	40.70	0.976	0.975	NO	1160		1.28	1160
89	89 PCB-124	2.10e5	1.48	NO	1.16	5.000	41.42	41.42	0.993	0.993	NO	1141		0.745	1141
90	90 PCB-107/109	4.20e5	1.59	NO	1.17	5.000	41.57	41.57	0.996	0.996	NO	2276		0.743	2276
91	91 PCB-123	1.91e5	1.58	NO	1.04	5.000	41.74	41.74	1.000	1.000	NO	1161		0.832	1161
92	92 PCB-106/118	4.02e5	1.61	NO	1.07	5.000	41.94	41.94	1.001	1.001	NO	2303		0.769	2303
93	93 PCB-114	2.26e5	1.60	NO	1.16	5.000	42.60	42.60	1.000	1.000	NO	1035		1.21	1035
94	94 PCB-122	1.94e5	1.60	NO	0.973	5.000	42.73	42.73	1.003	1.004	NO	1063		1.44	1063
95	95 PCB-105	2.12e5	1.54	NO	1.10	5.000	43.49	43.49	1.000	1.000	NO	1008		1.25	1008
96	96 PCB-127	2.25e5	1.59	NO	1.11	5.000	43.85	43.85	1.000	1.000	NO	1039		1.25	1039
97	97 PCB-126	2.44e5	1.58	NO	1.21	5.000	45.80	45.80	1.000	1.000	NO	1049		1.14	1049
98	98 PCB-155	1.25e5	1.30	NO	0.874	5.000	37.25	37.27	1.000	1.001	NO	1165		0.559	1165
99	99 PCB-150	1.42e5	1.28	NO	0.881	5.000	38.58	38.58	1.036	1.036	NO	1313		0.555	1313
100	1... PCB-152	1.53e5	1.34	NO	1.00	5.000	39.09	39.06	1.050	1.049	NO	1241		0.486	1241
101	1... PCB-145	1.49e5	1.27	NO	1.00	5.000	39.55	39.52	1.062	1.061	NO	1220		0.489	1220
102	1... PCB-136	1.31e5	1.30	NO	0.843	5.000	39.88	39.86	1.071	1.070	NO	1264		0.579	1264
103	1... PCB-148	9.95e4	1.31	NO	0.693	5.000	40.02	39.97	1.075	1.073	NO	1171		0.705	1171
104	1... PCB-154	1.08e5	1.31	NO	0.724	5.000	40.52	40.47	1.088	1.087	NO	1214		0.675	1214

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#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151	9.44e4	1.24	NO	0.632	5.000	41.19	41.14	1.106	1.105	NO	1220		0.773	1220
106	1... PCB-135	1.10e5	1.25	NO	0.716	5.000	41.36	41.37	1.111	1.111	NO	1257		0.682	1257
107	1... PCB-144	9.41e4	1.29	NO	0.667	5.000	41.46	41.48	1.114	1.114	NO	1153		0.733	1153
108	1... PCB-147	9.86e4	1.23	NO	0.661	5.000	41.61	41.61	1.118	1.117	NO	1218		0.739	1218
109	1... PCB-139/149	2.17e5	1.26	NO	0.738	5.000	41.95	41.89	1.127	1.125	NO	2404		0.662	2404
110	1... PCB-140	9.34e4	1.22	NO	0.627	5.000	42.14	42.07	1.132	1.130	NO	1215		0.779	1215
111	1... PCB-134/143	2.78e5	1.24	NO	0.733	5.000	42.55	42.52	0.975	0.974	NO	2216		1.70	2216
112	1... PCB-131/133	3.06e5	1.21	NO	0.790	5.000	42.83	42.83	0.982	0.981	NO	2263		1.58	2263
113	1... PCB-142	1.35e5	1.29	NO	0.708	5.000	42.99	43.00	0.985	0.985	NO	1119		1.76	1119
114	1... PCB-146/165	3.63e5	1.20	NO	0.959	5.000	43.24	43.22	0.991	0.990	NO	2213		1.30	2213
115	1... PCB-132/161	3.60e5	1.20	NO	0.974	5.000	43.48	43.47	0.996	0.996	NO	2159		1.28	2159
116	1... PCB-153	1.84e5	1.25	NO	1.01	5.000	43.66	43.66	1.000	1.000	NO	1061		1.23	1061
117	1... PCB-168	1.89e5	1.21	NO	1.02	5.000	43.89	43.89	1.006	1.006	NO	1083		1.22	1083
118	1... PCB-141	1.52e5	1.24	NO	0.967	5.000	44.42	44.42	1.000	1.000	NO	1086		1.58	1086
119	1... PCB-137	1.53e5	1.22	NO	0.987	5.000	44.80	44.82	1.009	1.009	NO	1074		1.55	1074
120	1... PCB-130	1.28e5	1.28	NO	0.840	5.000	44.91	44.93	1.012	1.012	NO	1053		1.82	1053
121	1... PCB-138/163/164	6.07e5	1.22	NO	1.23	5.000	45.31	45.31	1.001	1.001	NO	3351		1.20	3351
122	1... PCB-158/160	3.90e5	1.23	NO	1.18	5.000	45.56	45.56	1.006	1.006	NO	2241		1.25	2241
123	1... PCB-129	1.34e5	1.24	NO	0.819	5.000	45.81	45.80	1.012	1.012	NO	1103		1.80	1103
124	1... PCB-166	2.21e5	1.20	NO	1.07	5.000	46.28	46.27	0.993	0.993	NO	1103		1.10	1103
125	1... PCB-159	2.31e5	1.23	NO	1.12	5.000	46.62	46.62	1.000	1.000	NO	1100		1.06	1100
126	1... PCB-128/162	3.54e5	1.19	NO	0.851	5.000	46.90	46.92	1.007	1.007	NO	2222		1.39	2222
127	1... PCB-167	2.09e5	1.22	NO	1.04	5.000	47.32	47.32	1.000	1.000	NO	1090		1.13	1090
128	1... PCB-156	2.12e5	1.21	NO	1.06	5.000	48.64	48.64	1.000	1.000	NO	1110		1.15	1110
129	1... PCB-157	1.94e5	1.24	NO	0.978	5.000	48.95	48.93	1.001	1.000	NO	1065		1.22	1065
130	1... PCB-169	1.99e5	1.24	NO	1.11	5.000	51.20	51.20	1.000	1.000	NO	1095		1.24	1095
131	1... PCB-188	1.97e5	1.04	NO	1.19	5.000	43.28	43.28	1.001	1.001	NO	1103		0.998	1103
132	1... PCB-184	1.92e5	1.04	NO	1.17	5.000	43.73	43.74	1.011	1.011	NO	1099		1.02	1099
133	1... PCB-179	1.99e5	1.05	NO	1.18	5.000	44.54	44.53	1.030	1.030	NO	1127		1.01	1127
134	1... PCB-176	2.03e5	1.07	NO	1.16	5.000	45.01	45.02	1.041	1.041	NO	1166		1.03	1166
135	1... PCB-186	2.14e5	1.03	NO	1.22	5.000	45.63	45.65	1.055	1.056	NO	1175		0.977	1175
136	1... PCB-178	1.44e5	1.06	NO	0.830	5.000	46.14	46.16	1.067	1.067	NO	1160		1.43	1160
137	1... PCB-175	1.50e5	1.05	NO	0.849	5.000	46.50	46.52	1.075	1.076	NO	1179		1.40	1179
138	1... PCB-182/187	3.36e5	1.04	NO	0.960	5.000	46.70	46.69	1.080	1.080	NO	2332		1.24	2332
139	1... PCB-183	1.66e5	1.05	NO	0.957	5.000	47.03	47.01	1.088	1.087	NO	1161		1.24	1161
140	1... PCB-185	1.43e5	1.06	NO	1.32	5.000	47.70	47.69	0.955	0.955	NO	1083		1.35	1083

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#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174	1.39e5	1.03	NO	1.22	5.000	48.07	48.08	0.962	0.962	NO	1141		1.47	1141
142	1... PCB-181	1.51e5	1.08	NO	1.41	5.000	48.17	48.19	0.964	0.965	NO	1069		1.26	1069
143	1... PCB-177	1.36e5	1.04	NO	1.24	5.000	48.35	48.36	0.968	0.968	NO	1097		1.44	1097
144	1... PCB-171	1.35e5	1.04	NO	1.24	5.000	48.64	48.66	0.974	0.974	NO	1087		1.44	1087
145	1... PCB-173	1.31e5	1.05	NO	1.14	5.000	49.08	49.10	0.983	0.983	NO	1143		1.57	1143
146	1... PCB-172	1.52e5	1.03	NO	1.31	5.000	49.57	49.57	0.992	0.992	NO	1158		1.37	1158
147	1... PCB-192	1.96e5	1.03	NO	1.70	5.000	49.76	49.76	0.996	0.996	NO	1152		1.05	1152
148	1... PCB-180	1.50e5	1.04	NO	1.32	5.000	49.97	49.99	1.000	1.001	NO	1134		1.35	1134
149	1... PCB-193	1.77e5	1.06	NO	1.54	5.000	50.20	50.20	1.005	1.005	NO	1147		1.16	1147
150	1... PCB-191	1.76e5	1.04	NO	1.57	5.000	50.44	50.46	1.010	1.010	NO	1117		1.14	1117
151	1... PCB-170	1.22e5	1.05	NO	1.36	5.000	51.64	51.64	1.000	1.000	NO	1110		1.53	1110
152	1... PCB-190	1.64e5	1.05	NO	1.84	5.000	51.82	51.85	1.004	1.004	NO	1103		1.13	1103
153	1... PCB-189	1.77e5	1.05	NO	1.33	5.000	53.32	53.32	1.000	1.000	NO	1160		0.992	1160
154	1... PCB-202	1.42e5	0.86	NO	1.02	5.000	48.89	48.87	1.001	1.000	NO	1176		0.596	1176
155	1... PCB-201	1.35e5	0.92	NO	0.915	5.000	49.38	49.36	1.011	1.010	NO	1249		0.667	1249
156	1... PCB-204	1.44e5	0.89	NO	0.979	5.000	49.53	49.53	1.014	1.014	NO	1245		0.623	1245
157	1... PCB-197	1.37e5	0.88	NO	0.979	5.000	49.85	49.84	1.020	1.020	NO	1189		0.623	1189
158	1... PCB-200	1.28e5	0.88	NO	0.954	5.000	50.80	50.76	1.040	1.039	NO	1136		0.640	1136
159	1... PCB-198	9.46e4	0.88	NO	0.748	5.000	52.32	52.32	1.071	1.071	NO	1071		0.816	1071
160	1... PCB-199	9.34e4	0.94	NO	0.706	5.000	52.43	52.43	1.073	1.073	NO	1121		0.865	1121
161	1... PCB-196/203	2.04e5	0.93	NO	0.785	5.000	52.89	52.74	1.083	1.080	NO	2199		0.778	2199
162	1... PCB-195	1.44e5	0.89	NO	1.03	5.000	54.00	54.01	0.984	0.984	NO	1042		0.618	1042
163	1... PCB-194	1.53e5	0.89	NO	1.16	5.000	54.92	54.92	1.000	1.000	NO	993.7		0.552	993.7
164	1... PCB-205	1.96e5	0.89	NO	1.40	5.000	55.18	55.18	1.005	1.005	NO	1049		0.456	1049
165	1... PCB-208	1.62e5	1.33	NO	0.934	5.000	54.16	54.15	1.000	1.000	NO	1040		0.673	1040
166	1... PCB-207	1.62e5	1.30	NO	0.912	5.000	54.48	54.49	1.006	1.006	NO	1068		0.689	1068
167	1... PCB-206	1.27e5	1.33	NO	0.987	5.000	56.45	56.45	1.000	1.000	NO	1015		0.840	1015
168	1... PCB-209	1.41e5	1.26	NO	0.943	5.000	57.65	57.67	1.000	1.000	NO	1059		0.180	1059
169	1... 13C-PCB-1	5.53e5	3.32	NO	1.08	5.000	15.69	15.69	0.609	0.609	NO	1051	52.6	1.57	
170	1... 13C-PCB-3	5.45e5	3.59	NO	1.09	5.000	18.35	18.36	0.712	0.713	NO	1024	51.2	1.55	
171	1... 13C-PCB-4	3.19e5	1.60	NO	0.640	5.000	19.71	19.72	0.765	0.766	NO	1021	51.1	0.738	
172	1... 13C-PCB-9	5.03e5	1.59	NO	0.995	5.000	21.56	21.56	0.837	0.837	NO	1036	51.8	0.475	
173	1... 13C-PCB-11	5.89e5	1.57	NO	0.971	5.000	25.04	25.03	0.972	0.972	NO	1243	62.1	0.486	
174	1... 13C-PCB-19	3.77e5	1.02	NO	0.637	5.000	23.98	23.97	0.931	0.931	NO	1213	60.6	8.80	
175	1... 13C-PCB-32	5.34e5	1.03	NO	0.910	5.000	27.00	26.99	1.048	1.048	NO	1203	60.2	6.16	
176	1... 13C-PCB-28	5.19e5	1.02	NO	1.07	5.000	28.99	29.01	1.003	1.004	NO	1277	63.8	8.19	

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	# Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	5.41e5	1.02	NO	0.959	5.000	32.99	33.01	1.141	1.142	NO	1482	74.1	9.12	
178	1... 13C-PCB-54	4.42e5	0.76	NO	1.10	5.000	27.84	27.84	0.754	0.754	NO	1176	58.8	1.94	
179	1... 13C-PCB-52	3.88e5	0.75	NO	0.844	5.000	31.50	31.50	0.853	0.853	NO	1343	67.2	2.53	
180	1... 13C-PCB-47	4.16e5	0.74	NO	0.893	5.000	32.02	32.02	0.867	0.867	NO	1360	68.0	2.39	
181	1... 13C-PCB-70	4.32e5	0.78	NO	1.01	5.000	35.65	35.67	0.965	0.966	NO	1251	62.6	2.12	
182	1... 13C-PCB-80	4.48e5	0.78	NO	1.05	5.000	36.08	36.10	0.977	0.977	NO	1250	62.5	2.04	
183	1... 13C-PCB-81	4.74e5	0.76	NO	0.985	5.000	39.30	39.30	1.064	1.064	NO	1406	70.3	2.17	
184	1... 13C-PCB-77	4.58e5	0.75	NO	0.958	5.000	39.91	39.92	1.080	1.081	NO	1397	69.8	2.23	
185	1... 13C-PCB-104	3.95e5	1.61	NO	1.10	5.000	32.70	32.69	0.827	0.827	NO	1385	69.3	0.790	
186	1... 13C-PCB-95	2.57e5	1.58	NO	0.852	5.000	35.98	35.97	0.910	0.910	NO	1160	58.0	1.02	
187	1... 13C-PCB-101	2.70e5	1.55	NO	0.814	5.000	37.73	37.72	0.955	0.954	NO	1275	63.7	1.06	
188	1... 13C-PCB-97	2.37e5	1.54	NO	0.709	5.000	39.07	39.06	0.989	0.988	NO	1286	64.3	1.22	
189	1... 13C-PCB-123	3.16e5	1.64	NO	0.922	5.000	41.71	41.72	1.055	1.056	NO	1320	66.0	0.940	
190	1... 13C-PCB-118	3.26e5	1.70	NO	0.975	5.000	41.90	41.91	1.060	1.060	NO	1288	64.4	0.888	
191	1... 13C-PCB-114	3.76e5	1.58	NO	1.52	5.000	42.58	42.58	0.908	0.908	NO	1254	62.7	0.940	
192	1... 13C-PCB-105	3.82e5	1.56	NO	1.58	5.000	43.47	43.47	0.927	0.927	NO	1224	61.2	0.903	
193	1... 13C-PCB-127	3.91e5	1.62	NO	1.62	5.000	43.83	43.83	0.935	0.935	NO	1221	61.1	0.881	
194	1... 13C-PCB-126	3.83e5	1.61	NO	1.45	5.000	45.78	45.78	0.976	0.977	NO	1343	67.2	0.989	
195	1... 13C-PCB-155	2.45e5	1.32	NO	1.03	5.000	37.24	37.24	0.942	0.942	NO	918.8	45.9	0.432	
196	1... 13C-PCB-153	3.42e5	1.24	NO	1.42	5.000	43.64	43.64	0.931	0.931	NO	1218	60.9	0.995	
197	1... 13C-PCB-141	2.89e5	1.28	NO	1.14	5.000	44.42	44.40	0.947	0.947	NO	1281	64.1	1.24	
198	1... 13C-PCB-138	2.96e5	1.30	NO	1.18	5.000	45.27	45.27	0.966	0.966	NO	1270	63.5	1.20	
199	1... 13C-PCB-159	3.75e5	1.26	NO	1.43	5.000	46.62	46.60	0.994	0.994	NO	1325	66.3	0.988	
200	2... 13C-PCB-167	3.69e5	1.32	NO	1.42	5.000	47.32	47.30	1.009	1.009	NO	1312	65.6	0.994	
201	2... 13C-PCB-156	3.62e5	1.30	NO	1.40	5.000	48.64	48.62	1.038	1.037	NO	1311	65.6	1.01	
202	2... 13C-PCB-157	3.72e5	1.29	NO	1.41	5.000	48.93	48.91	1.044	1.043	NO	1339	67.0	1.01	
203	2... 13C-PCB-169	3.28e5	1.28	NO	1.35	5.000	51.20	51.18	1.092	1.092	NO	1236	61.8	1.05	
204	2... 13C-PCB-188	3.00e5	0.46	NO	1.46	5.000	43.24	43.24	0.926	0.926	NO	1301	65.1	0.965	
205	2... 13C-PCB-180	2.00e5	0.43	NO	0.932	5.000	49.95	49.95	1.070	1.070	NO	1365	68.3	1.51	
206	2... 13C-PCB-170	1.61e5	0.43	NO	0.796	5.000	51.62	51.62	1.106	1.105	NO	1288	64.4	1.77	
207	2... 13C-PCB-189	2.29e5	0.47	NO	1.09	5.000	53.30	53.30	1.142	1.142	NO	1335	66.7	1.29	
208	2... 13C-PCB-202	2.36e5	0.97	NO	1.45	5.000	48.85	48.85	1.046	1.046	NO	1033	51.7	0.505	
209	2... 13C-PCB-194	2.67e5	0.90	NO	0.714	5.000	54.92	54.90	0.995	0.995	NO	1363	68.2	0.849	
210	2... 13C-PCB-208	3.33e5	0.78	NO	0.896	5.000	54.16	54.14	0.982	0.981	NO	1356	67.8	0.791	
211	2... 13C-PCB-206	2.53e5	0.80	NO	0.653	5.000	56.44	56.44	1.023	1.023	NO	1413	70.6	1.09	
212	2... 13C-PCB-209	2.82e5	1.23	NO	0.806	5.000	57.67	57.65	1.045	1.045	NO	1279	64.0	0.241	

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-4.qld

Last Altered: Thursday, November 07, 2019 11:41:25 Pacific Standard Time

Printed: Thursday, November 07, 2019 11:41:49 Pacific Standard Time

Name: 191106K1\_4, Date: 06-Nov-2019, Time: 15:59:24, ID: B9K0010-BS1 OPR 5, Description: OPR

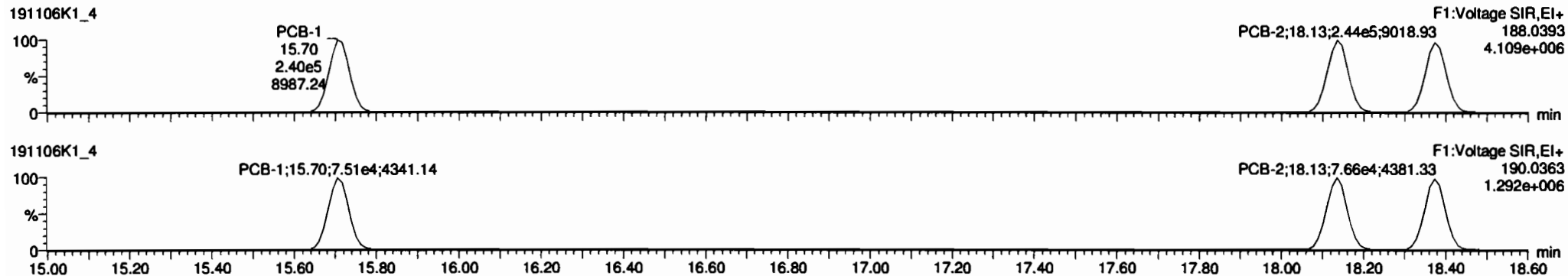
#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	9.76e5	1.56	NO	1.00	5.000	25.74	25.76	1.000	0.000	NO	2000	100	0.472	
214	2... 13C-PCB-31	7.61e5	1.02	NO	1.00	5.000	28.90	28.90	1.000	0.000	NO	2000	100	8.75	
215	2... 13C-PCB-60	6.85e5	0.77	NO	1.00	5.000	36.94	36.94	1.000	0.000	NO	2000	100	2.13	
216	2... 13C-PCB-111	5.20e5	1.59	NO	1.00	5.000	39.51	39.52	1.000	0.000	NO	2000	100	0.866	
217	2... 13C-PCB-128	3.95e5	1.28	NO	1.00	5.000	46.86	46.88	1.000	0.000	NO	2000	100	1.42	
218	2... 13C-PCB-182	3.15e5	0.45	NO	1.00	5.000	46.69	46.69	0.000	0.000	NO	2000	100	1.41	
219	2... 13C-PCB-205	5.48e5	0.89	NO	1.00	5.000	55.16	55.18	1.000	0.000	NO	2000	100	0.606	
220	2... 13C-PCB-79	5.42e5	0.77	NO	1.03	5.000	38.07	38.03	1.031	1.030	NO	1533	76.7	2.07	
221	2... 13C-PCB-178	2.19e5	0.45	NO	0.875	5.000	46.14	46.14	0.988	0.988	NO	1266	63.3	1.32	
222	2... 13C-PCB-79	5.42e5	0.77	NO	1.05	5.000	38.02	38.03	0.967	0.968	NO	2186	109	2.99	
223	2... 13C-PCB-178	2.19e5	0.45	NO	0.975	5.000	46.13	46.14	0.924	0.924	NO	2237	112	2.29	

Dataset: Untitled

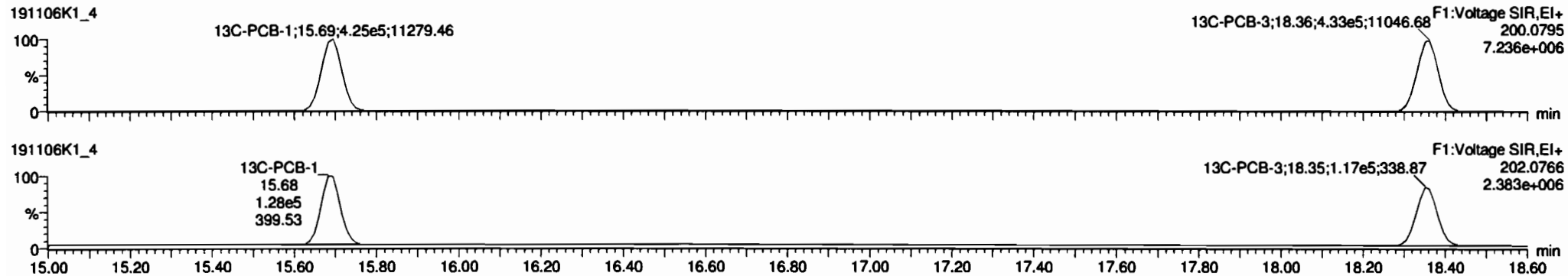
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

Name: 191106K1\_4, Date: 06-Nov-2019, Time: 15:59:24, ID: B9K0010-BS1 OPR 5, Description: OPR

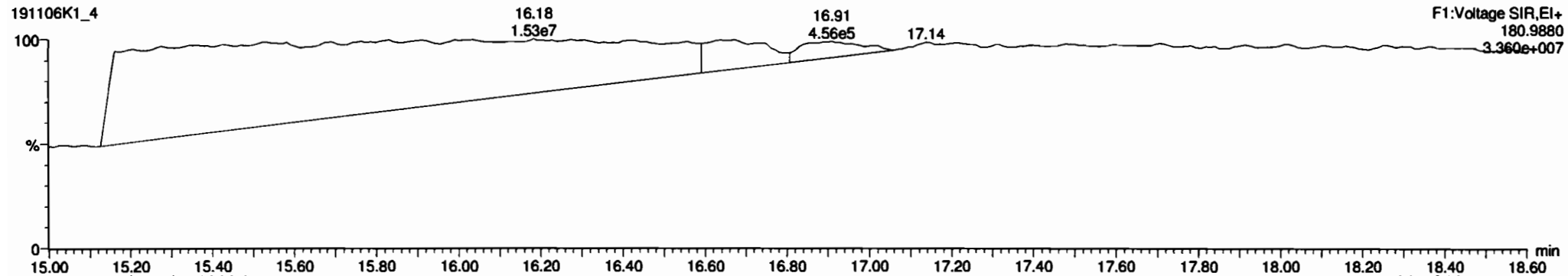
**PCB-1**



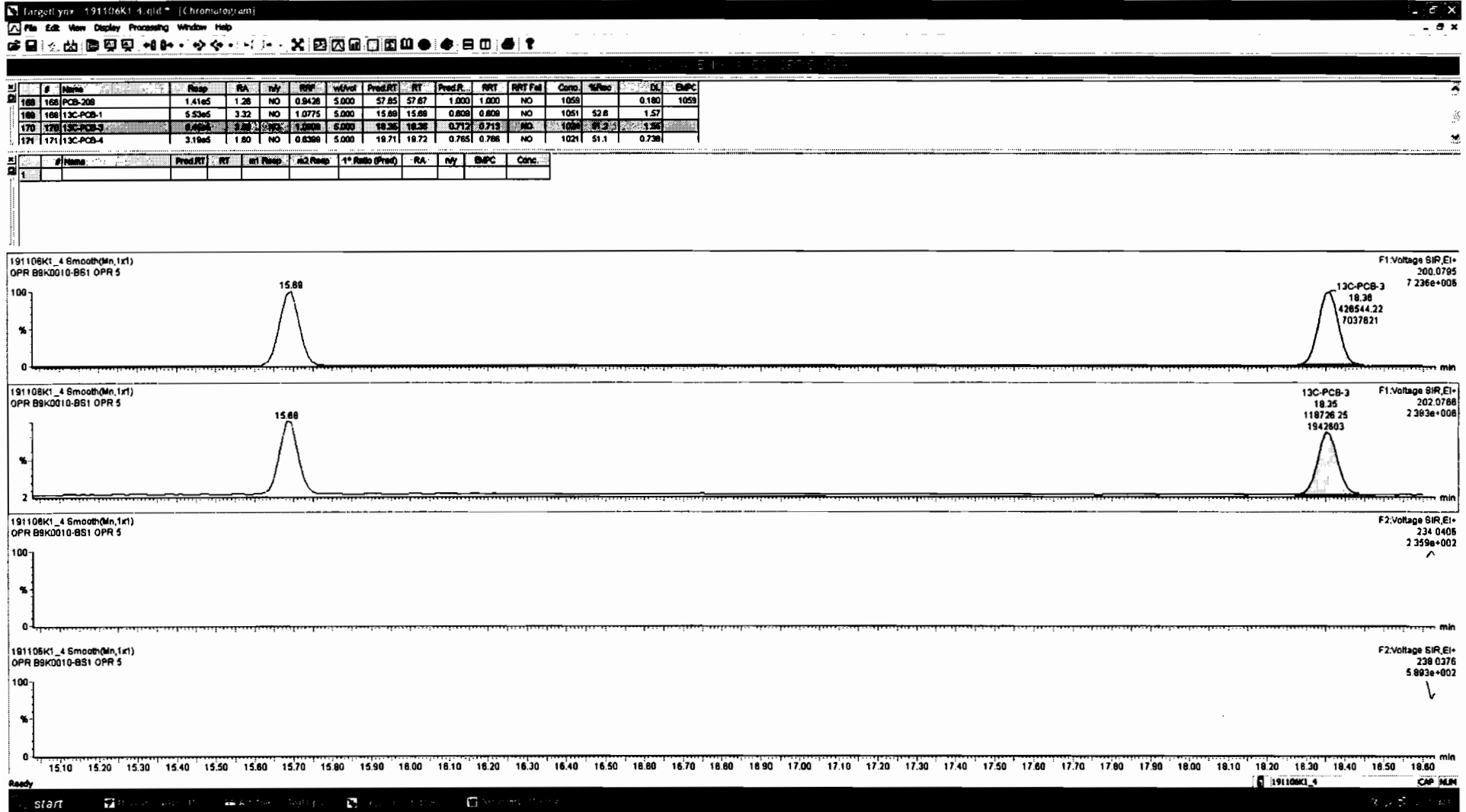
**13C-PCB-1**



**PFK1**





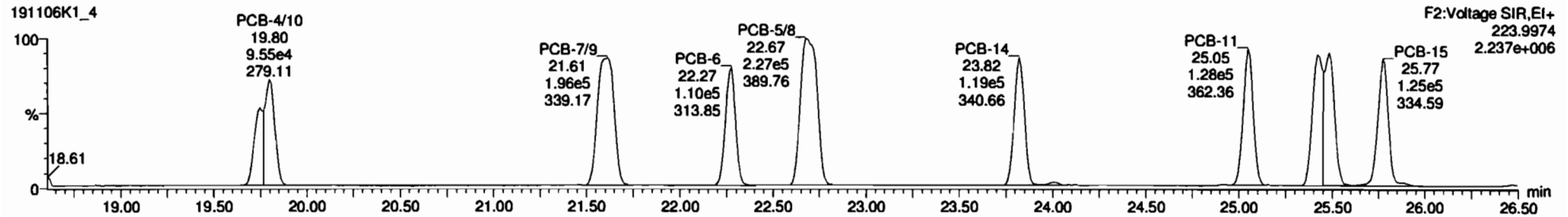
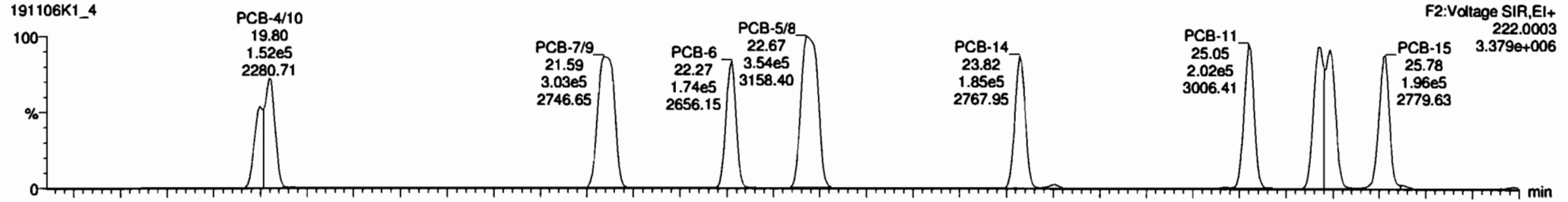


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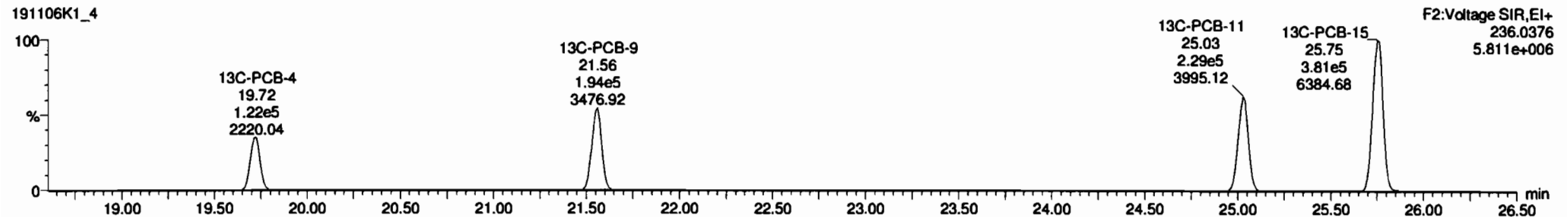
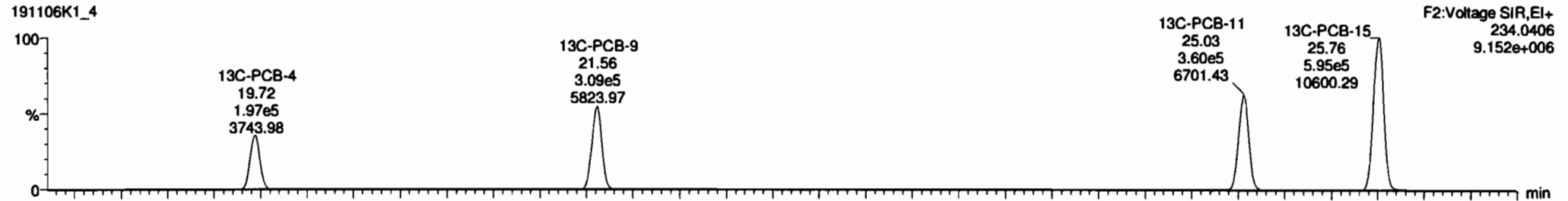
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Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

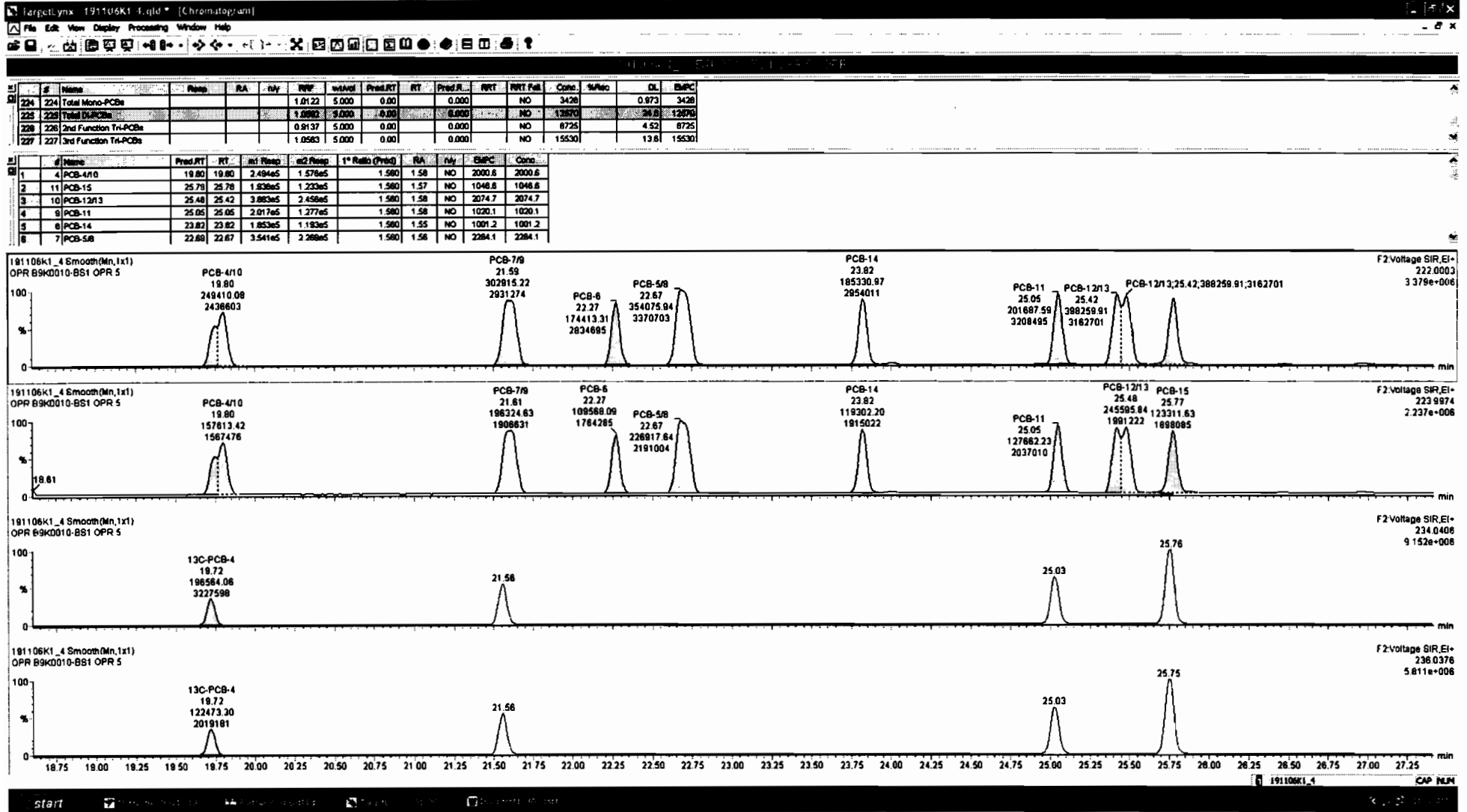
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**PCB-4/10**



**13C-PCB-4**



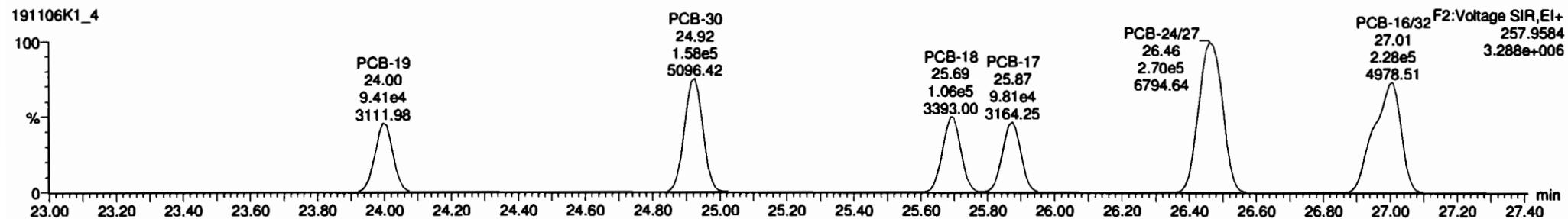
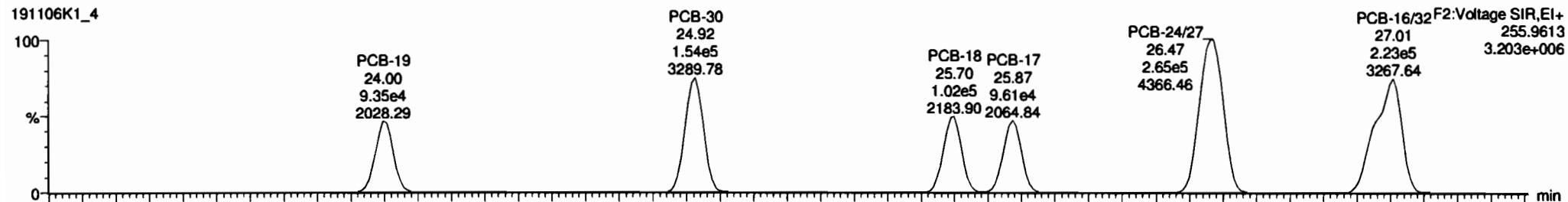


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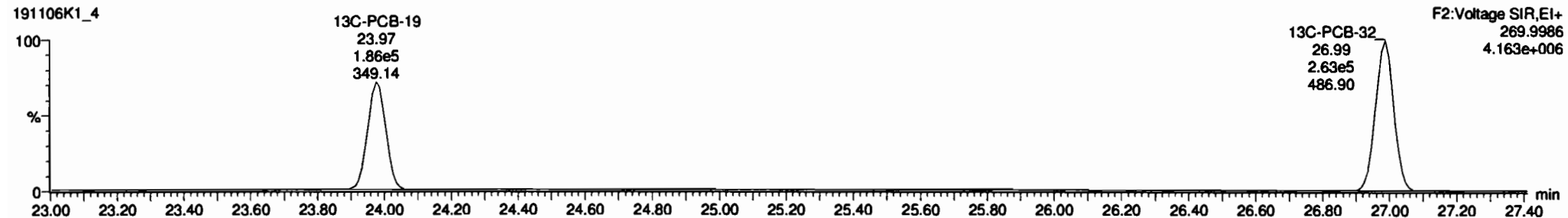
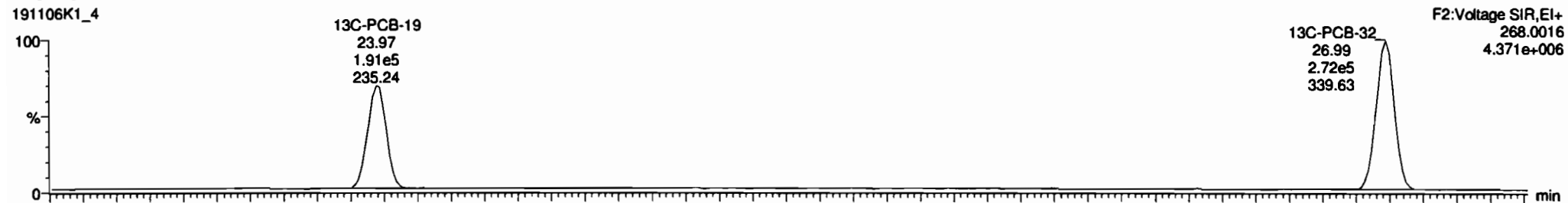
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Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

Name: 191106K1\_4, Date: 06-Nov-2019, Time: 15:59:24, ID: B9K0010-BS1 OPR 5, Description: OPR

PCB-19



13C-PCB-19



Dataset: Untitled

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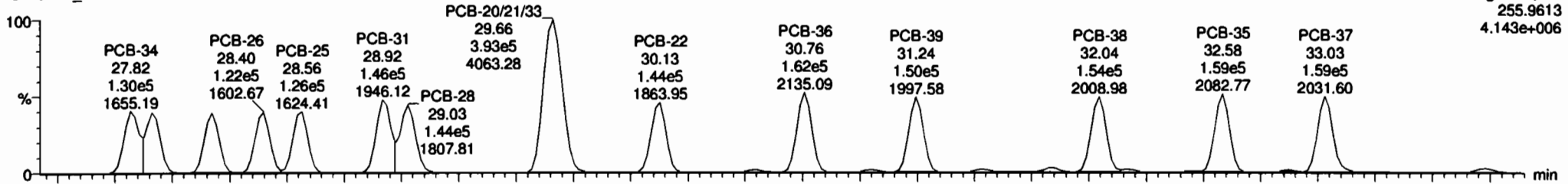
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

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PCB-34

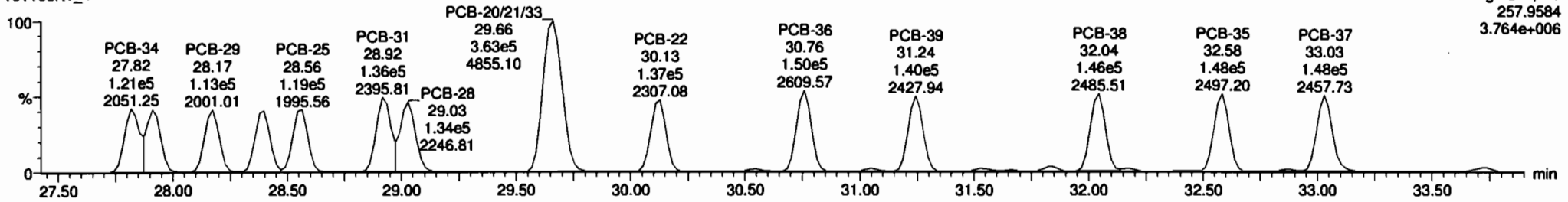
191106K1\_4

F3:Voltage SIR,EI+  
255.9613  
4.143e+006



191106K1\_4

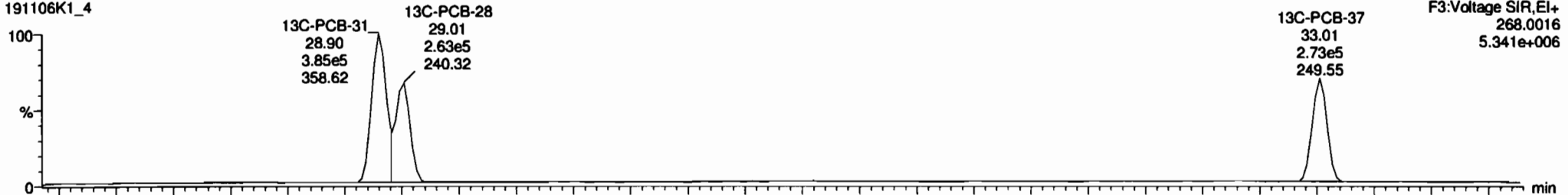
F3:Voltage SIR,EI+  
257.9584  
3.764e+006



13C-PCB-28

191106K1\_4

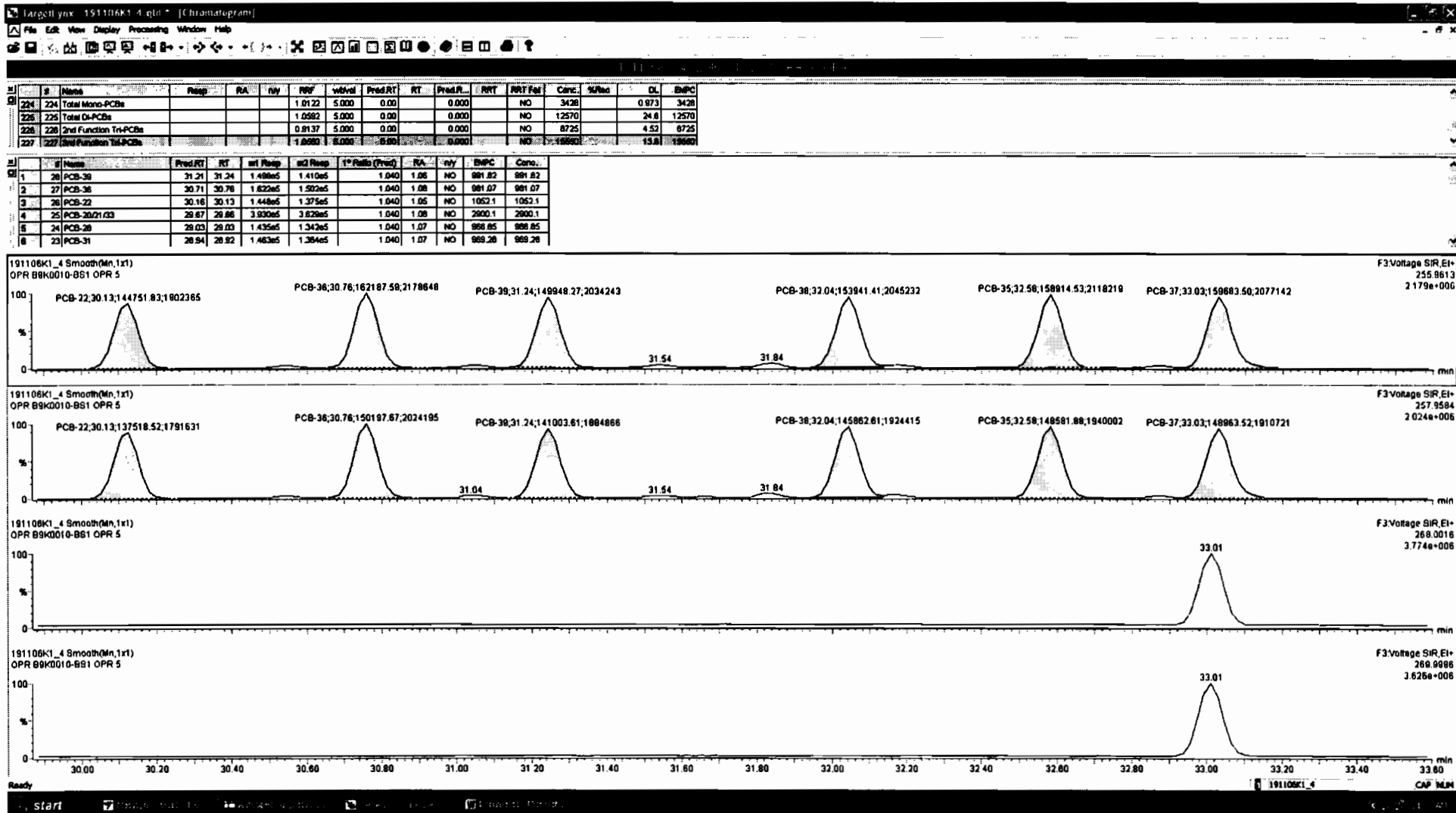
F3:Voltage SIR,EI+  
268.0016  
5.341e+006



191106K1\_4

F3:Voltage SIR,EI+  
269.9986  
5.146e+006





Dataset: Untitled

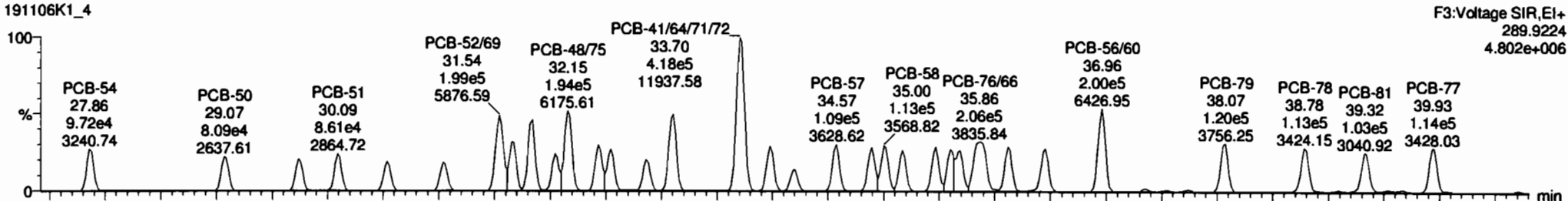
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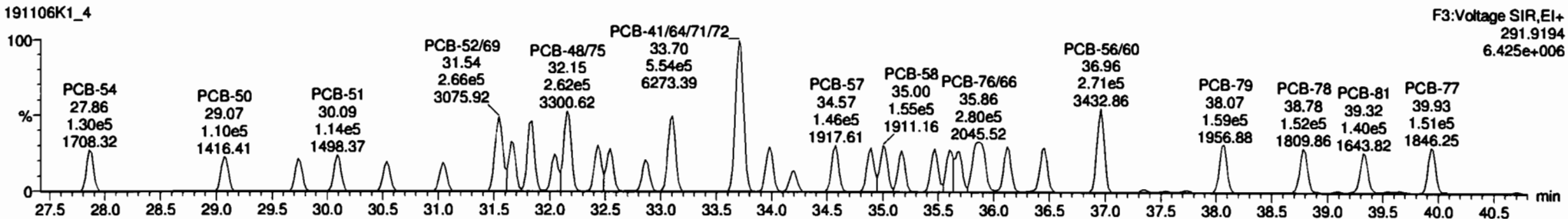
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**PCB-54**

191106K1\_4

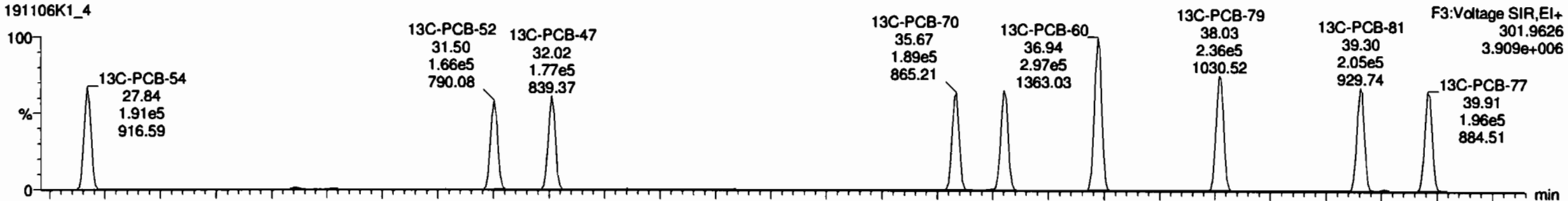


191106K1\_4

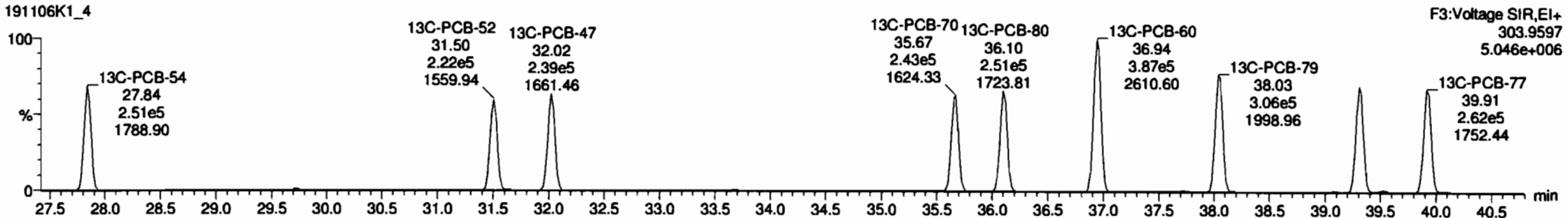


**13C-PCB-54**

191106K1\_4



191106K1\_4



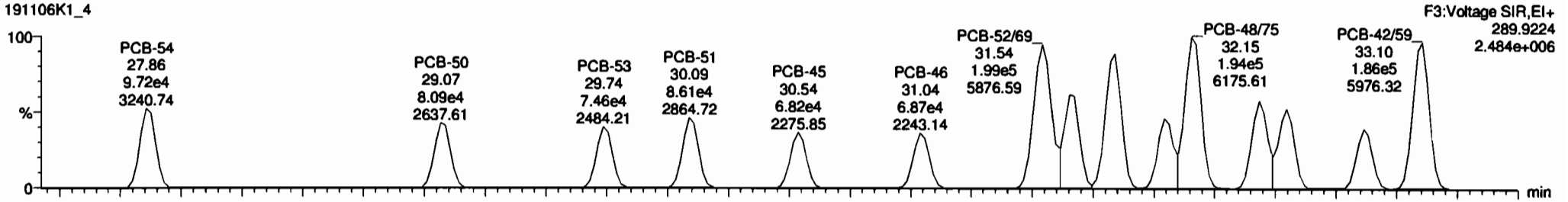
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Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

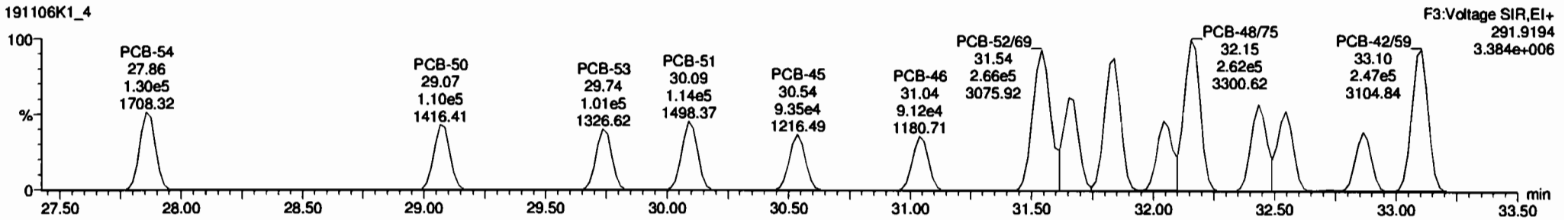
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PCB-50

191106K1\_4

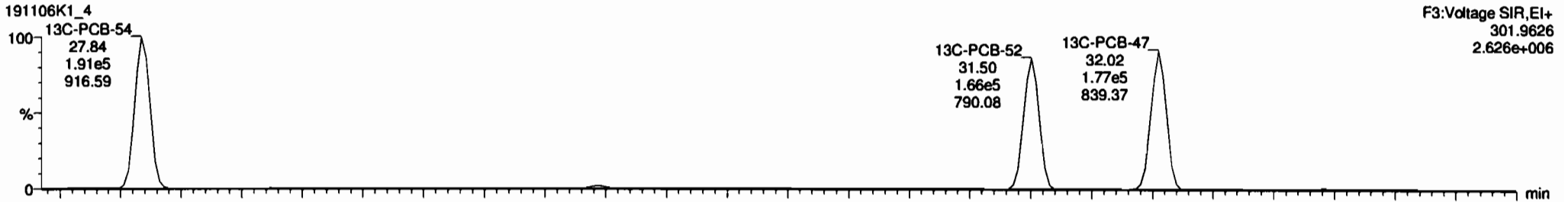


191106K1\_4

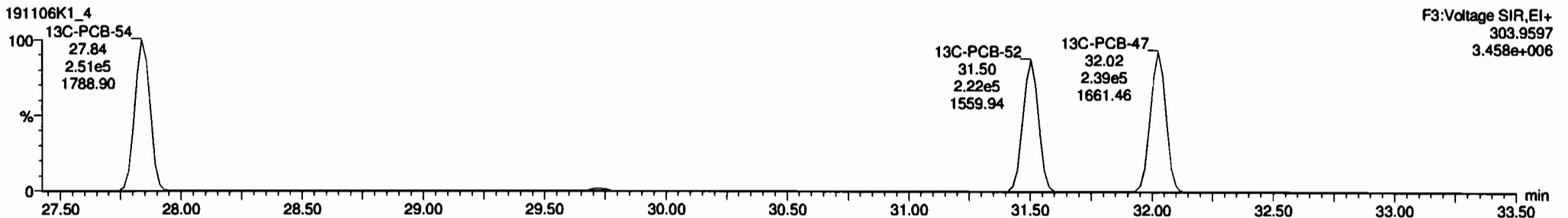


13C-PCB-52

191106K1\_4



191106K1\_4





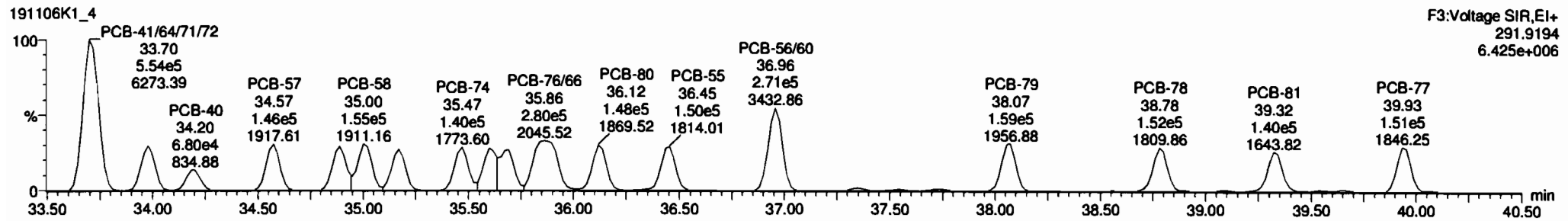
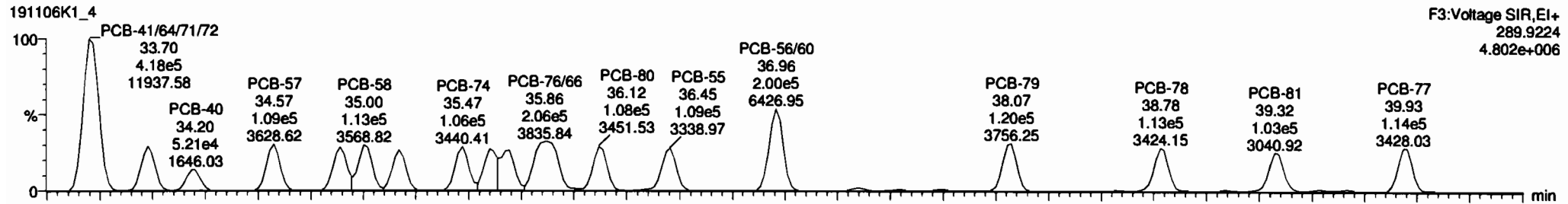
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Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time

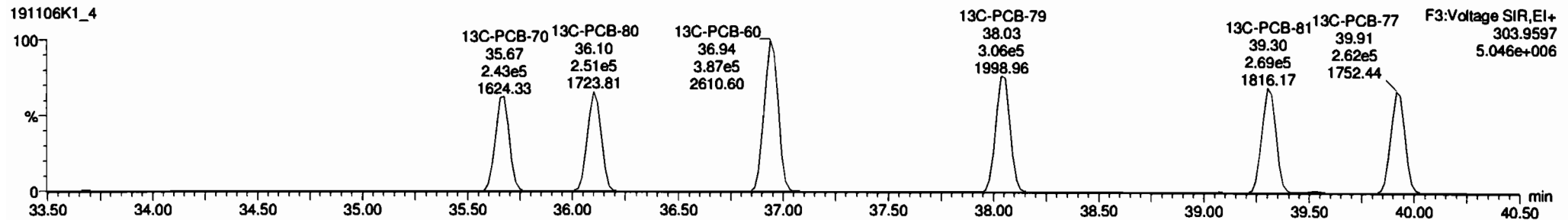
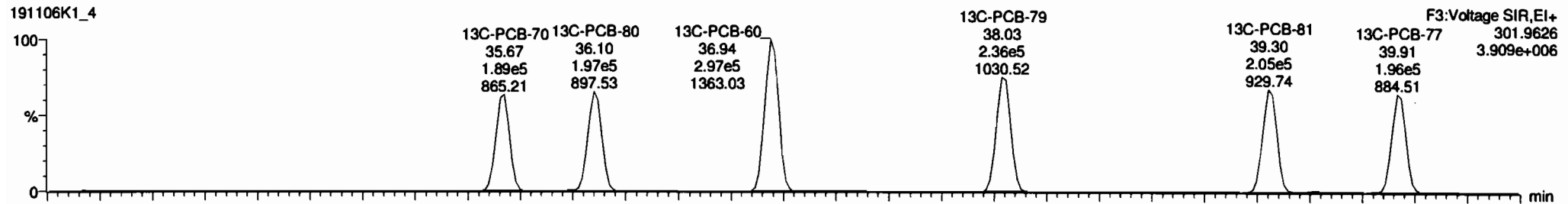
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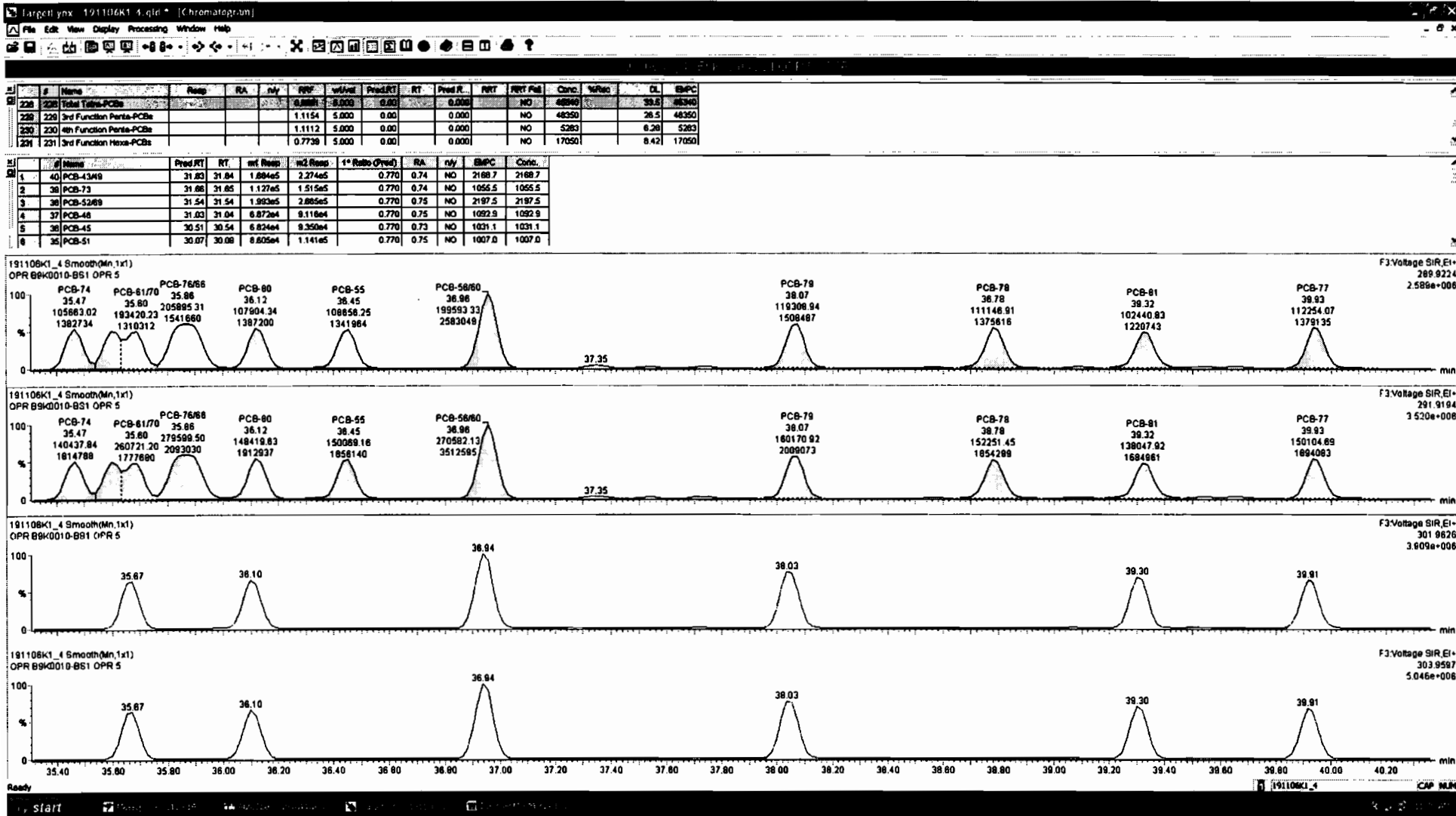
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PCB-68



13C-PCB-60





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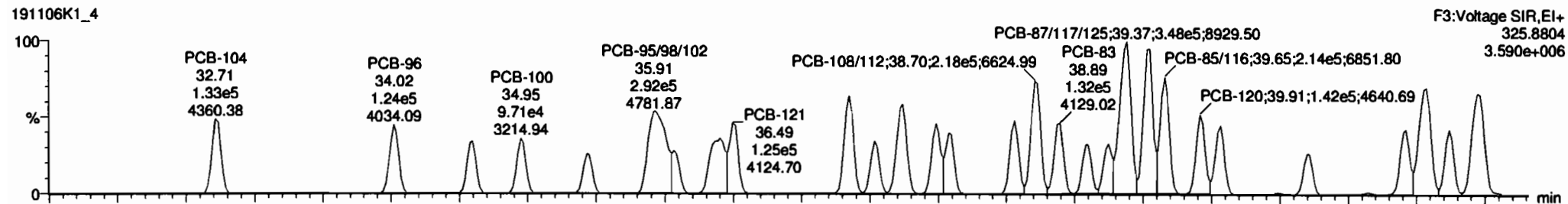
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Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

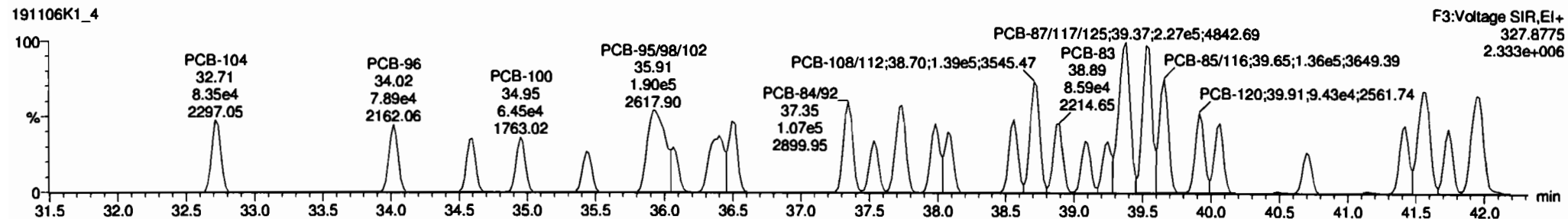
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PCB-104

191106K1\_4

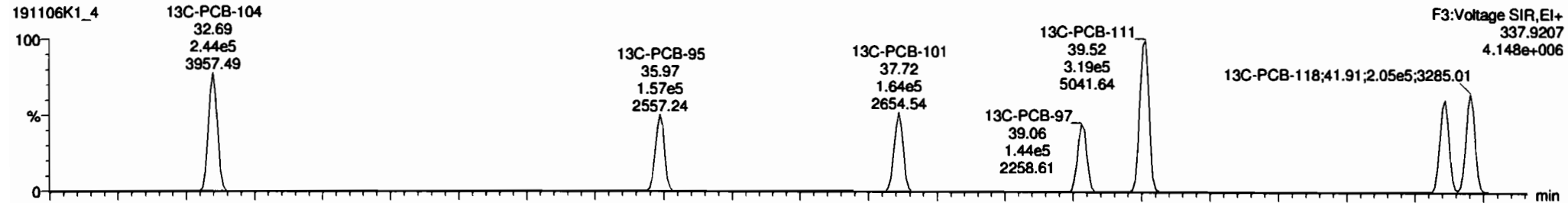


191106K1\_4

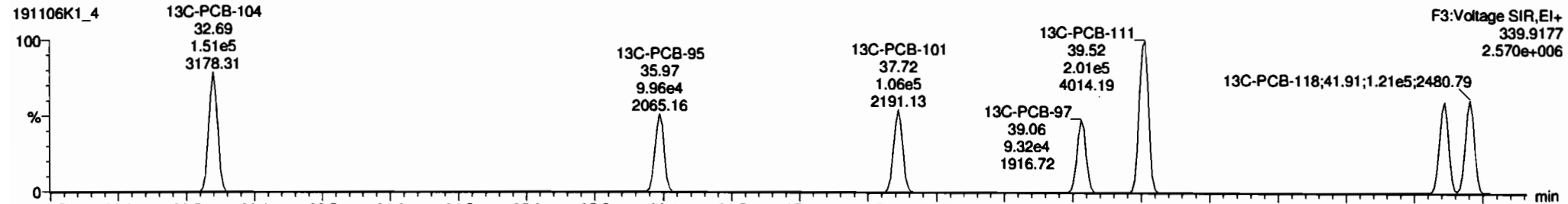


13C-PCB-104

191106K1\_4



191106K1\_4

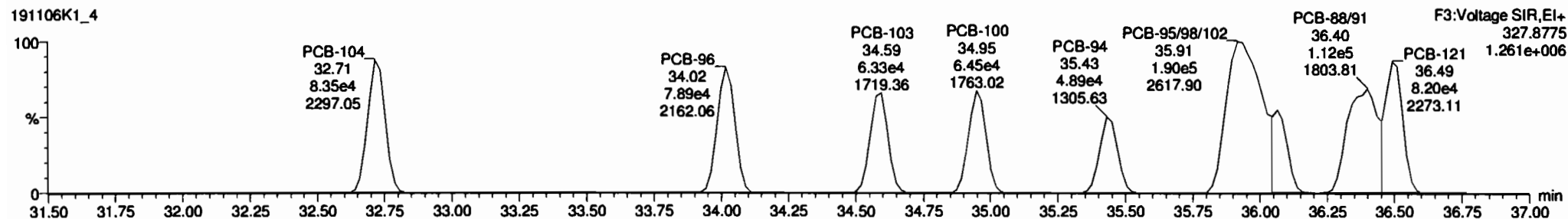
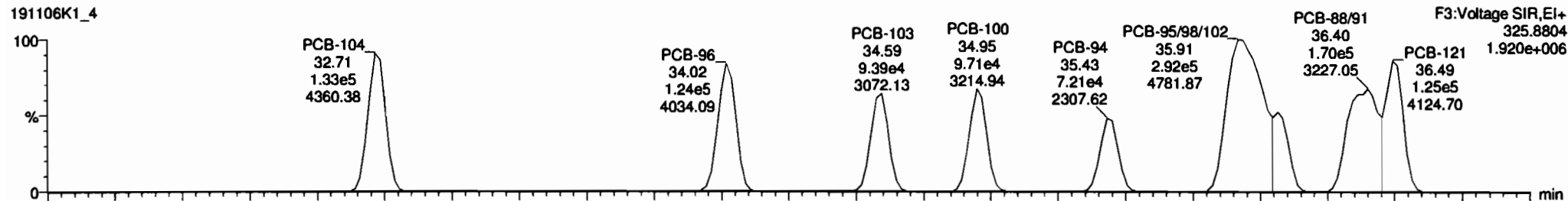


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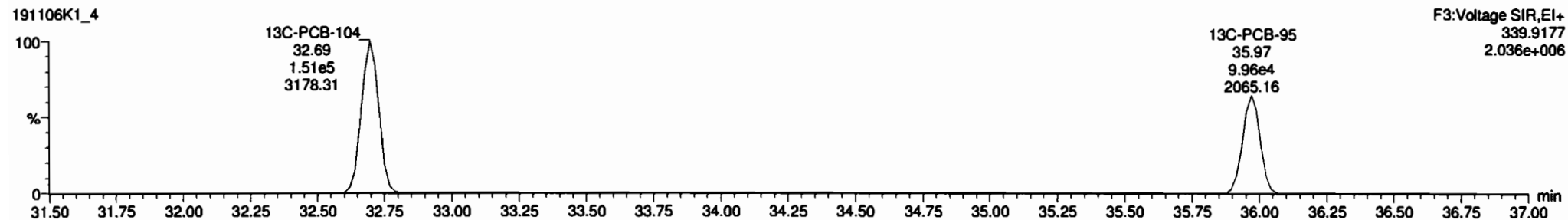
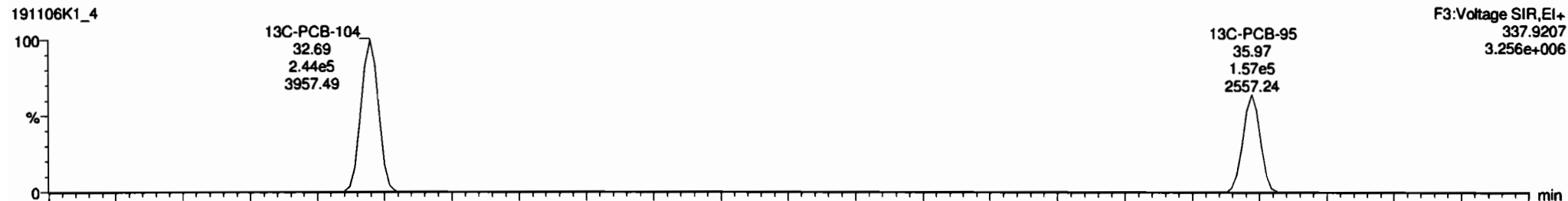
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Name: 191106K1\_4, Date: 06-Nov-2019, Time: 15:59:24, ID: B9K0010-BS1 OPR 5, Description: OPR

**PCB-96**



**13C-PCB-95**



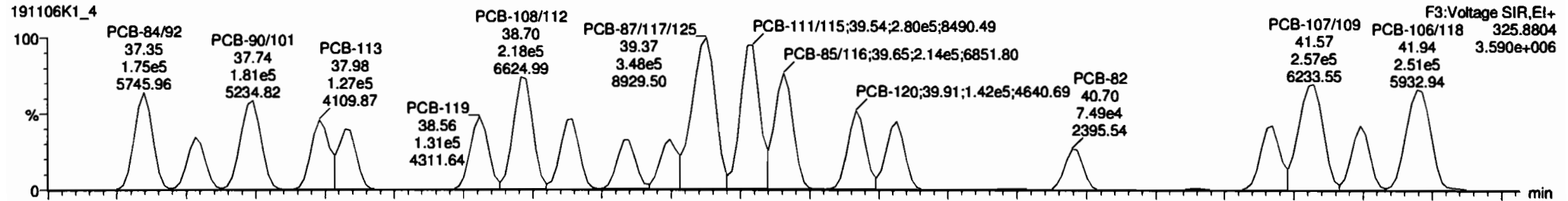
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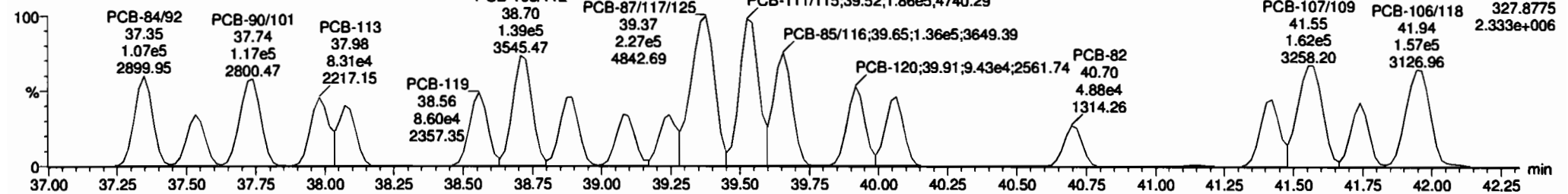
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

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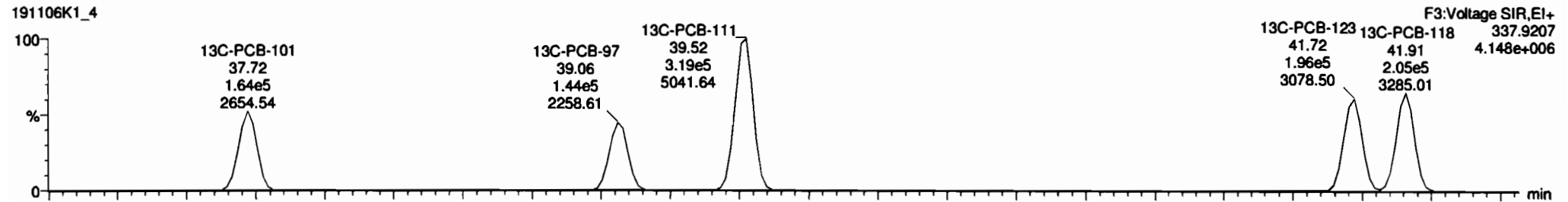
PCB-119



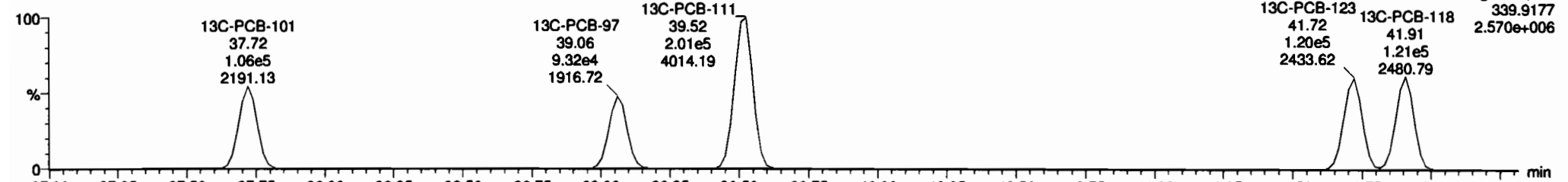
191106K1\_4

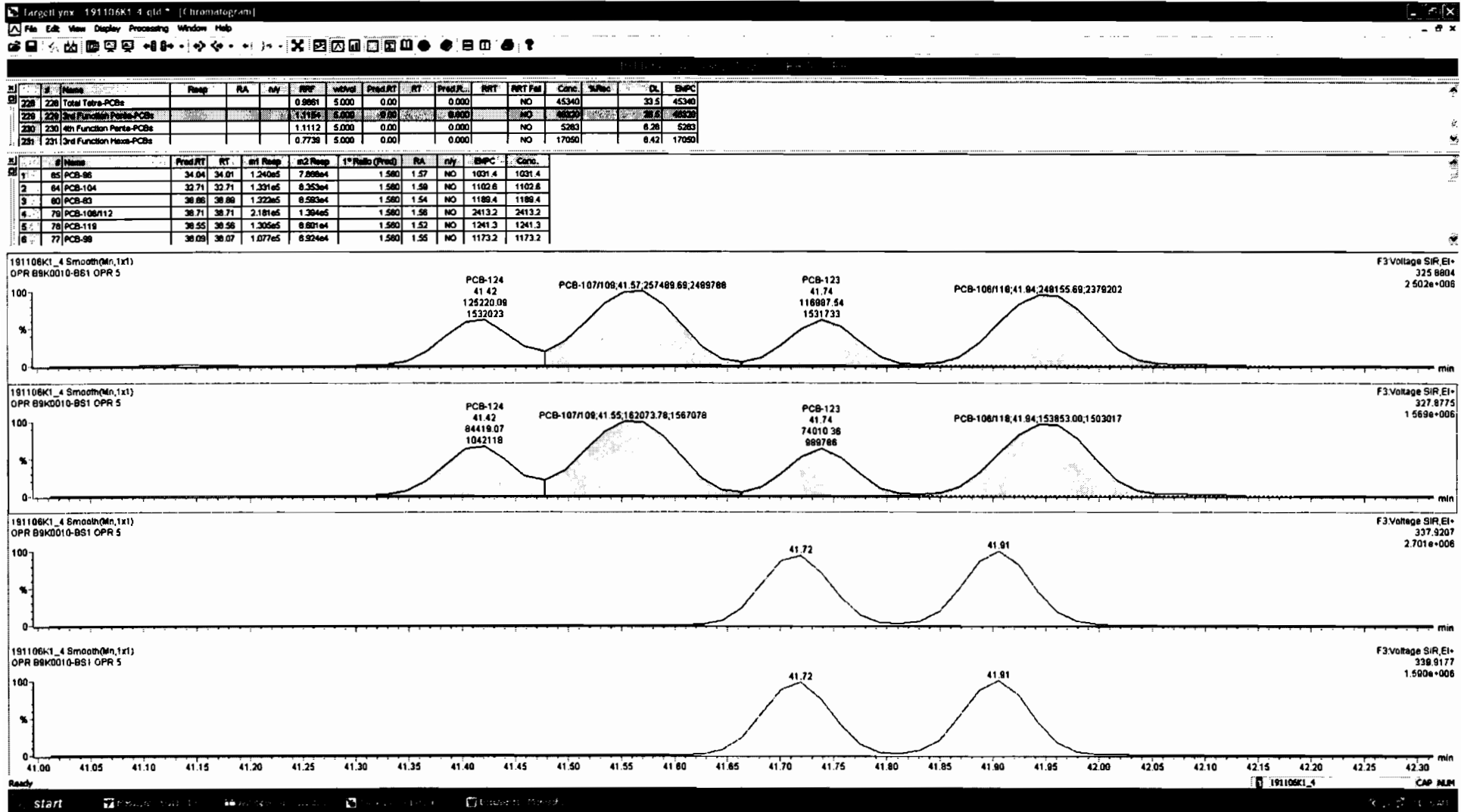


13C-PCB-111



191106K1\_4



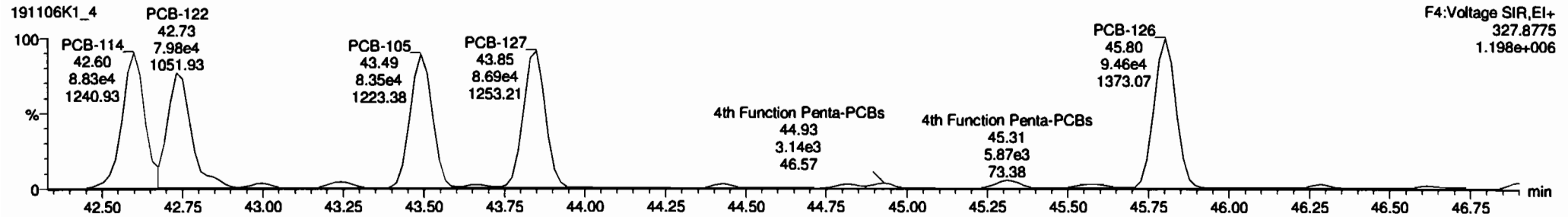
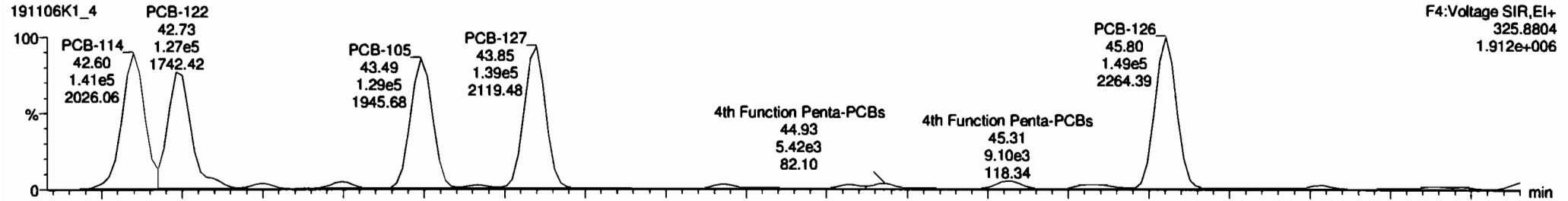


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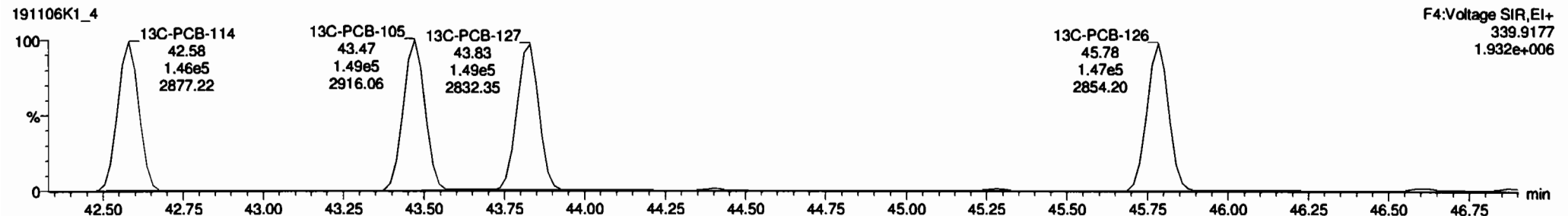
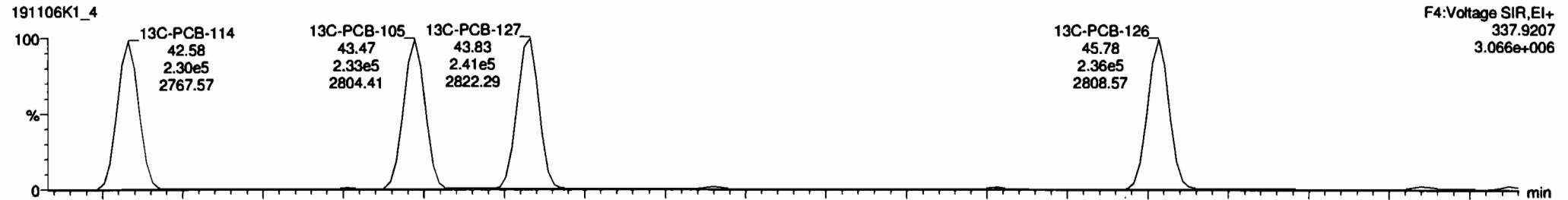
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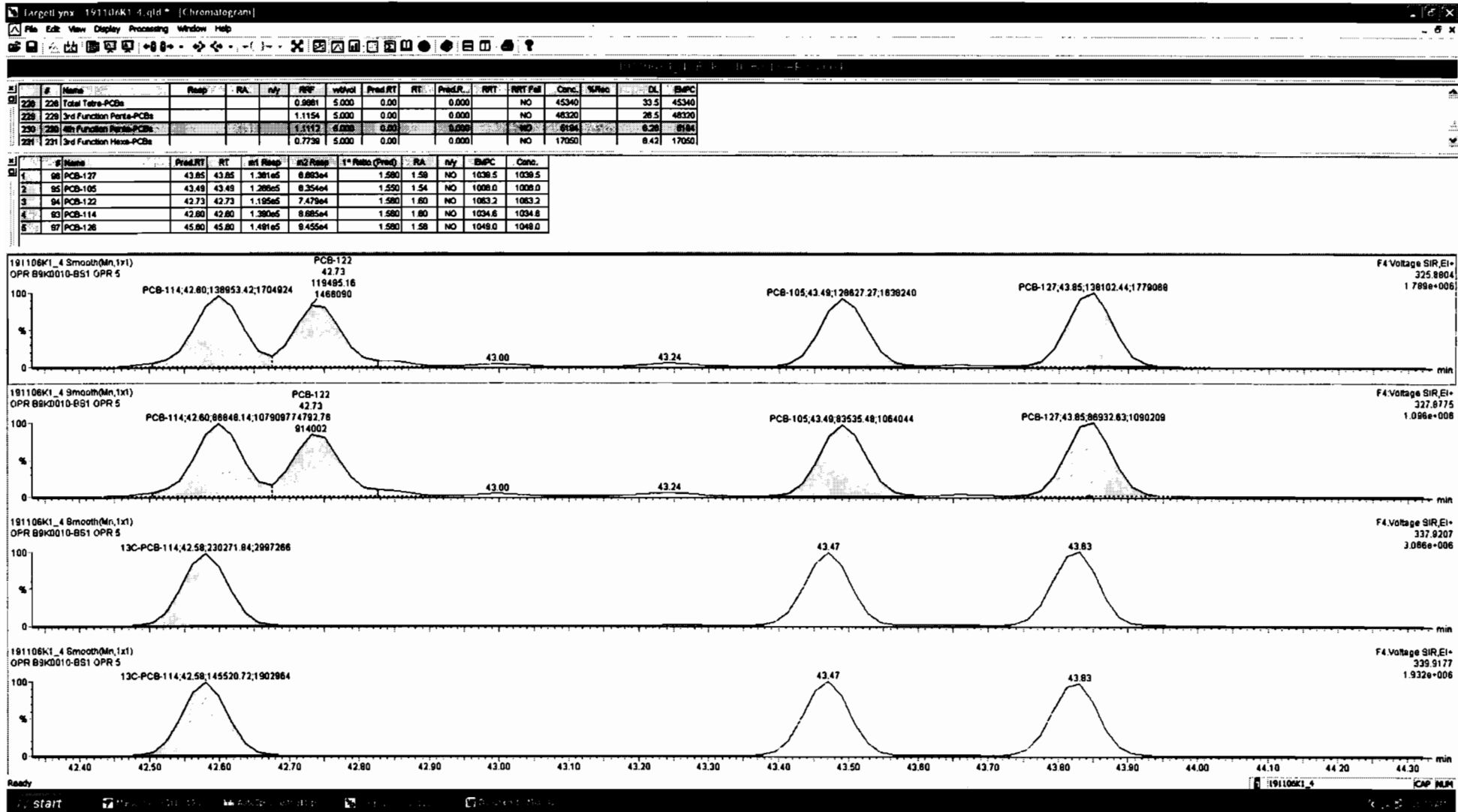
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**PCB-114**



**13C-PCB-114**







Dataset: Untitled

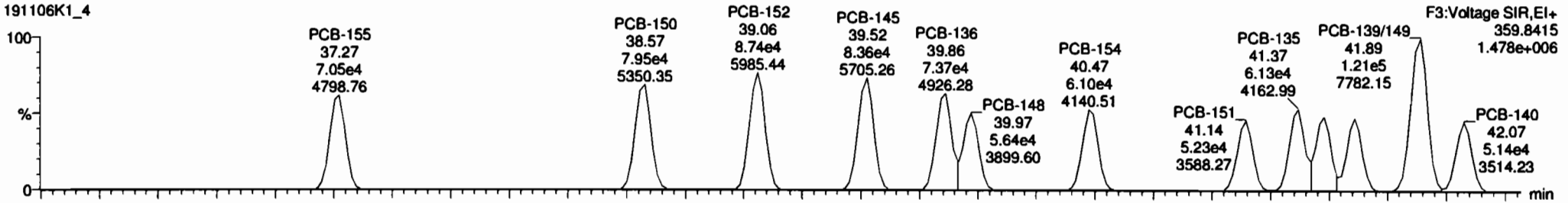
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time

Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

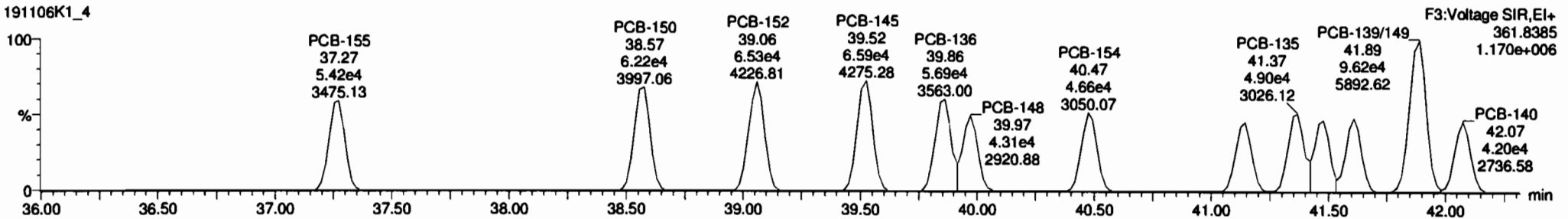
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PCB-155

191106K1\_4

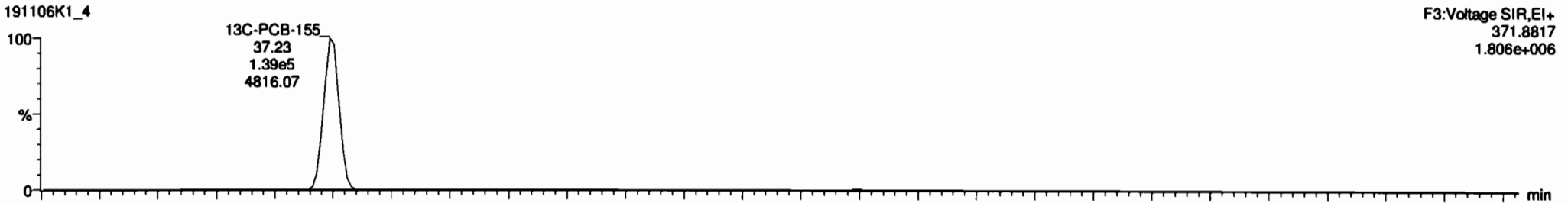


191106K1\_4

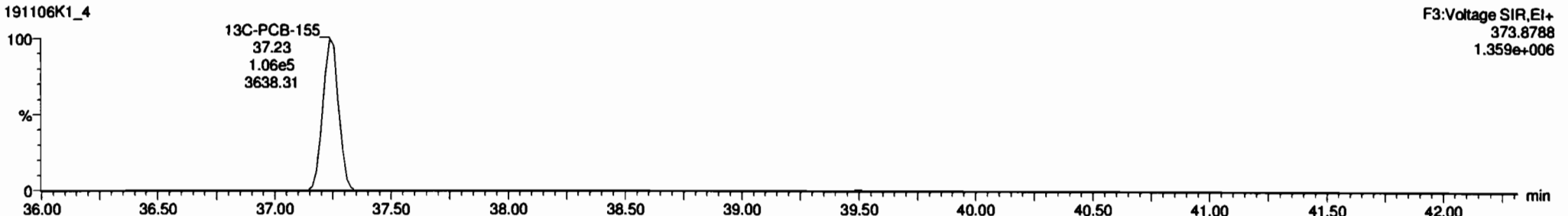


13C-PCB-155

191106K1\_4



191106K1\_4

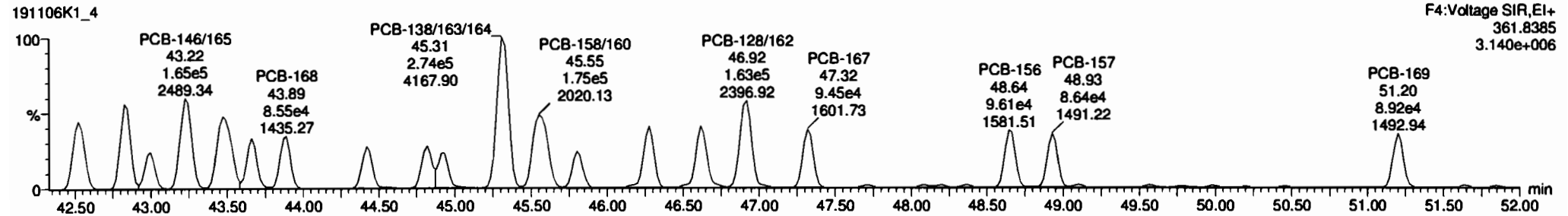
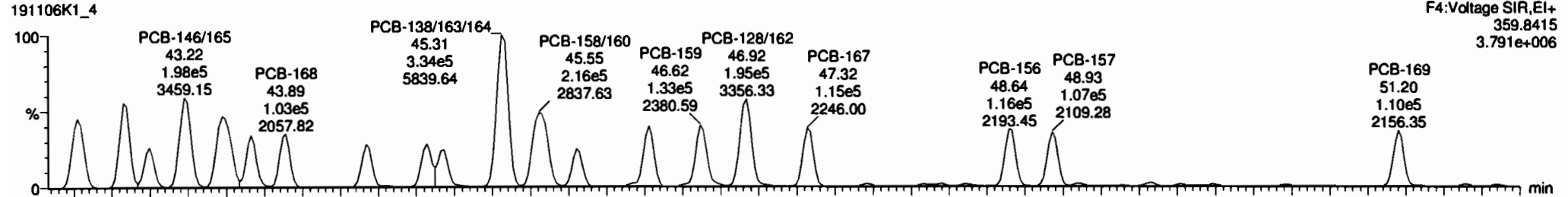


Dataset: Untitled

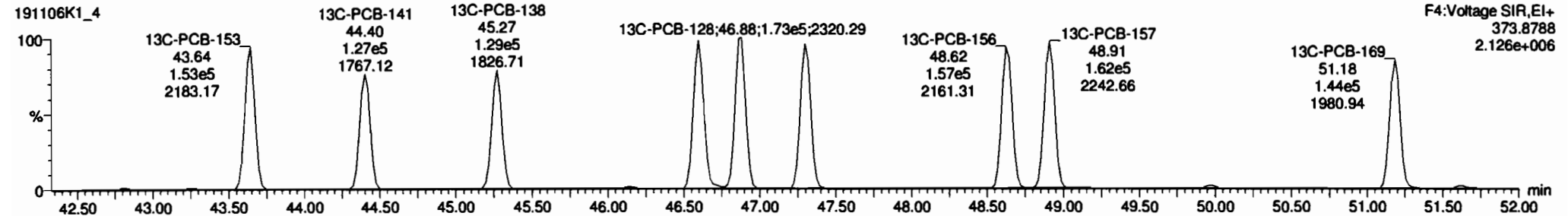
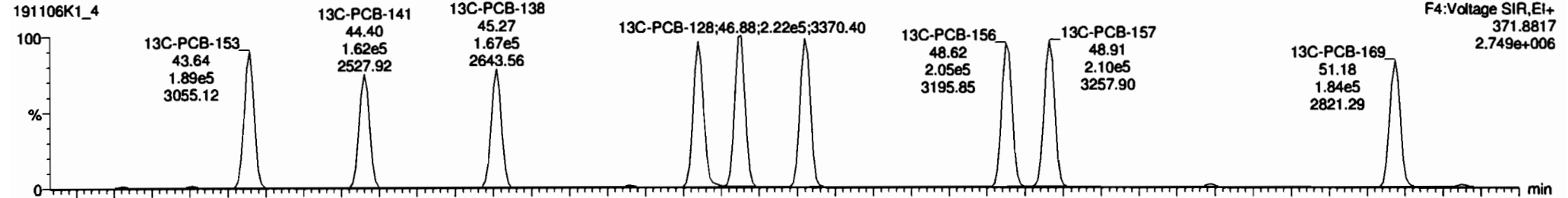
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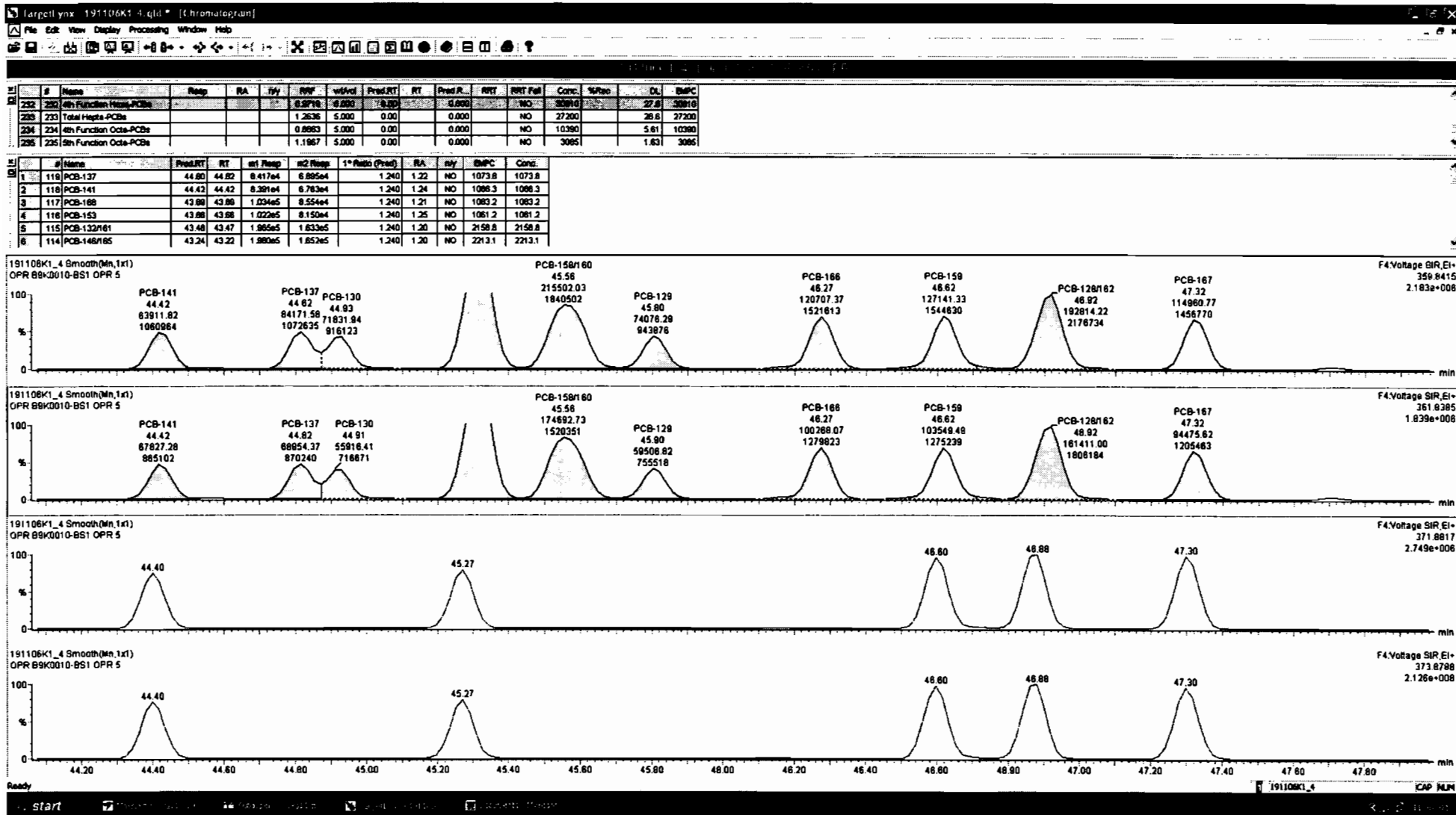
Name: 191106K1\_4, Date: 06-Nov-2019, Time: 15:59:24, ID: B9K0010-BS1 OPR 5, Description: OPR

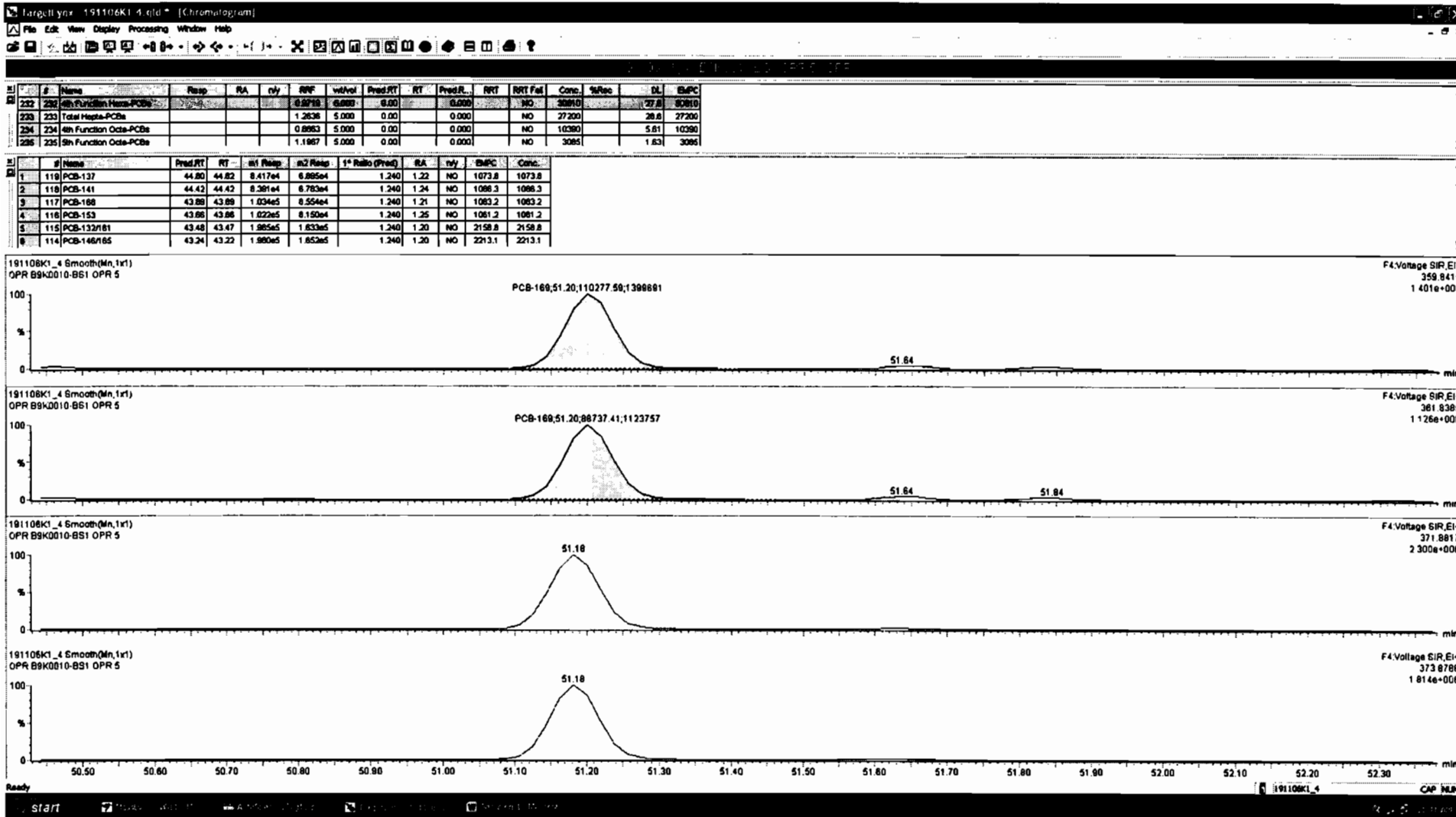
PCB-134/143



13C-PCB-153







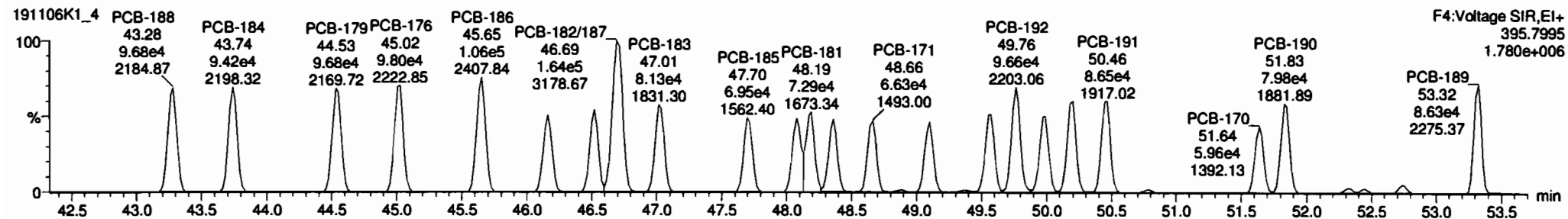
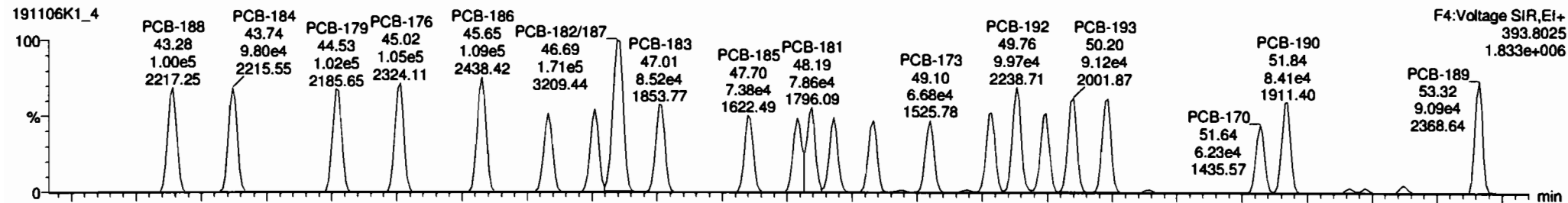
Dataset: Untitled

Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time

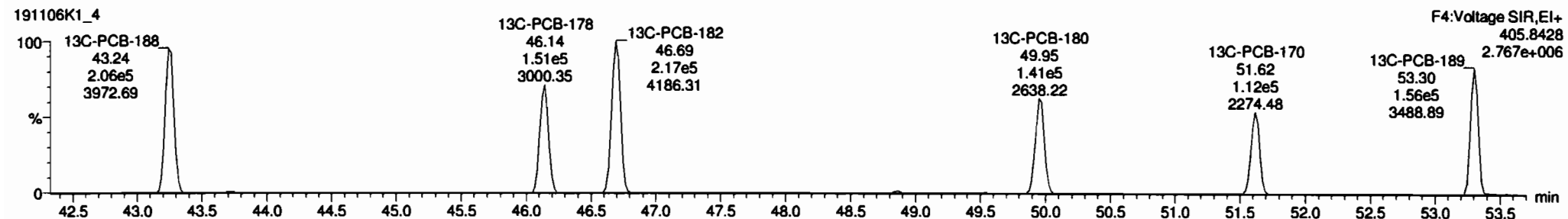
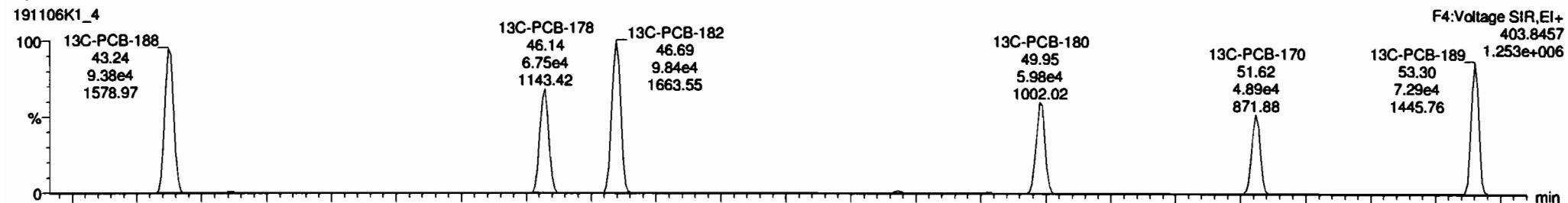
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

Name: 191106K1\_4, Date: 06-Nov-2019, Time: 15:59:24, ID: B9K0010-BS1 OPR 5, Description: OPR

PCB-188



13C-PCB-188



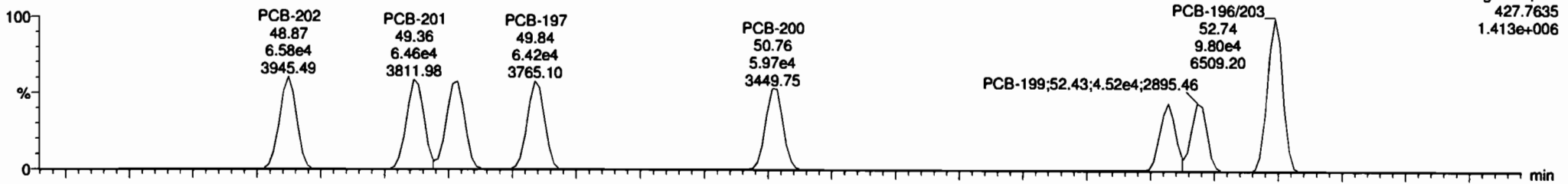
Dataset: Untitled

Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

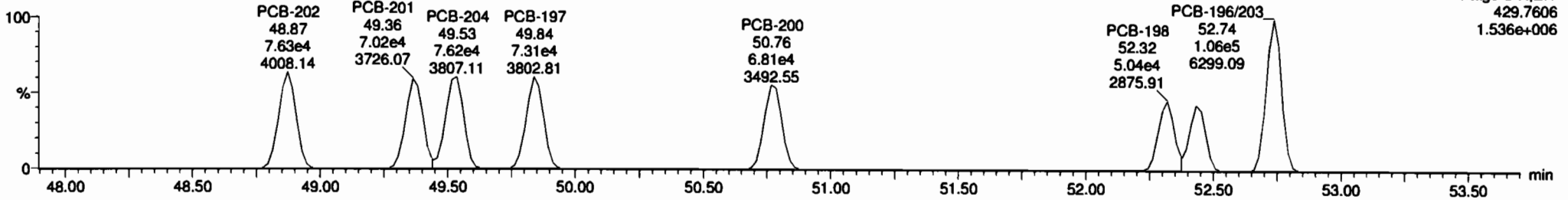
Name: 191106K1\_4, Date: 06-Nov-2019, Time: 15:59:24, ID: B9K0010-BS1 OPR 5, Description: OPR

PCB-202

191106K1\_4

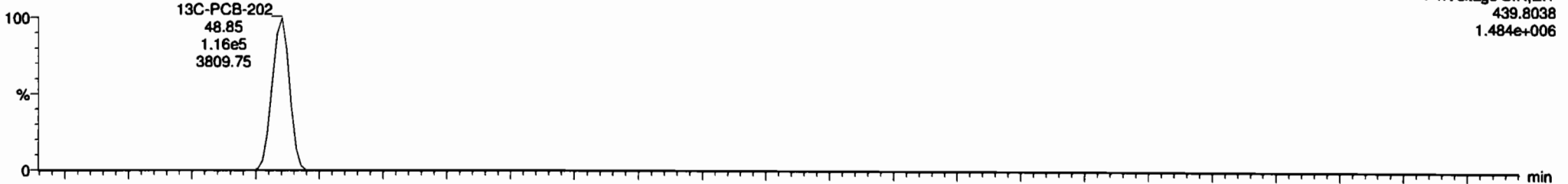


191106K1\_4

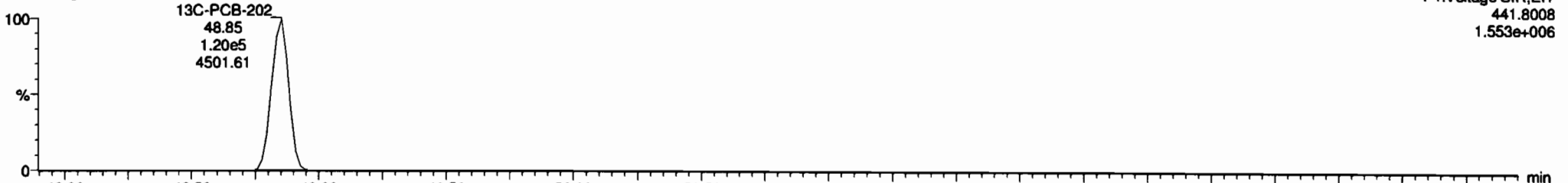


13C-PCB-202

191106K1\_4



191106K1\_4

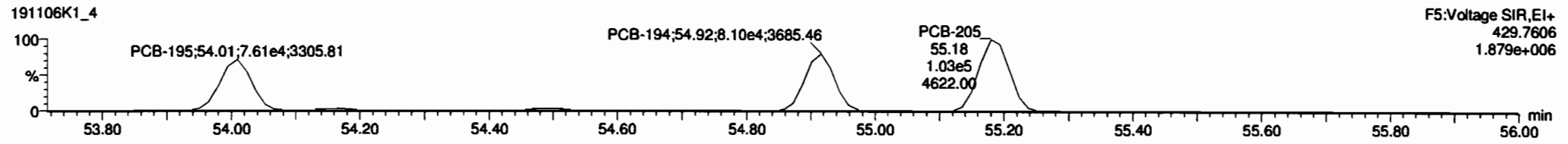
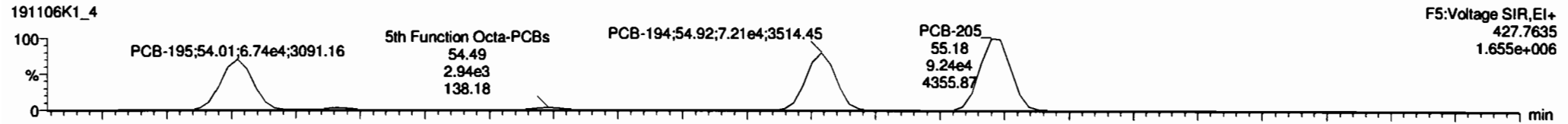


Dataset: Untitled

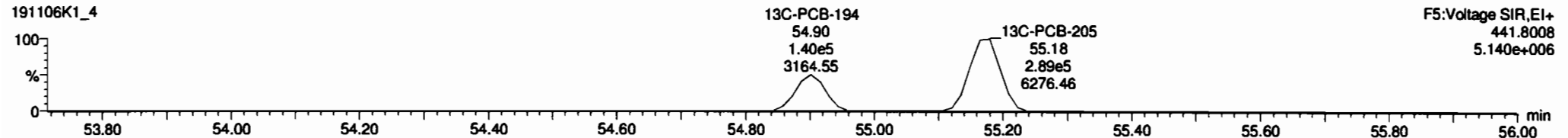
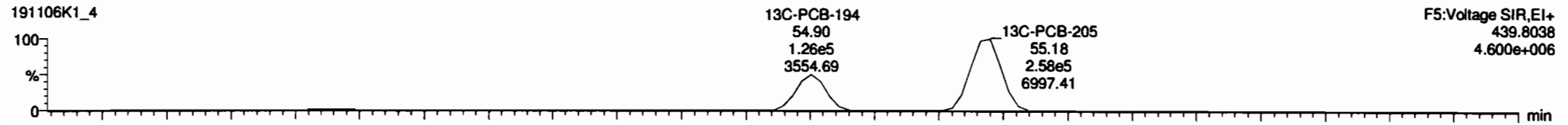
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

Name: 191106K1\_4, Date: 06-Nov-2019, Time: 15:59:24, ID: B9K0010-BS1 OPR 5, Description: OPR

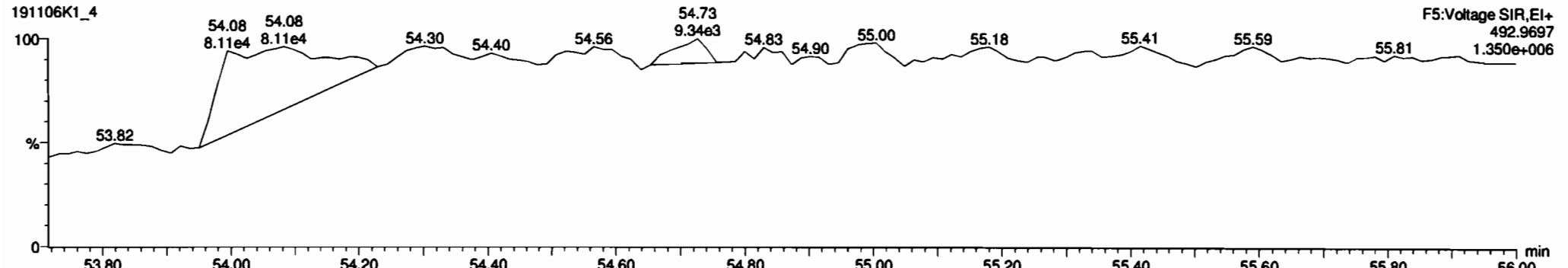
**PCB-195**



**13C-PCB-194**



**PFK5**

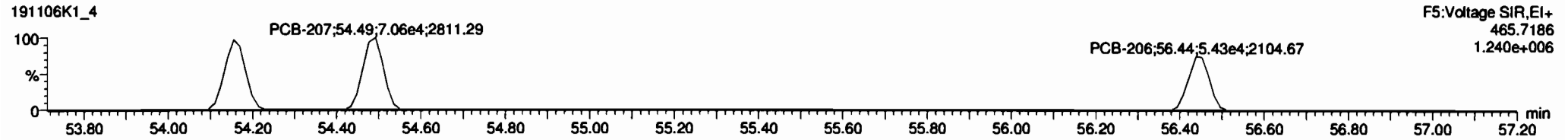
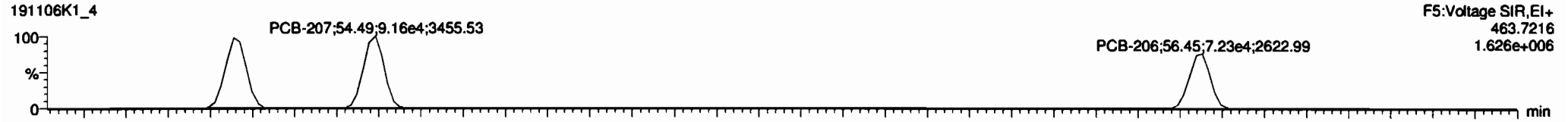


Dataset: Untitled

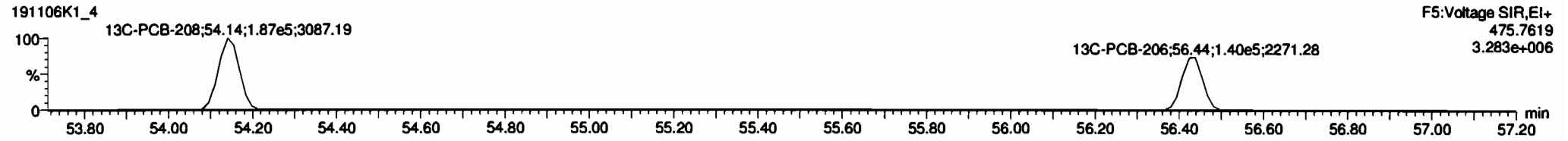
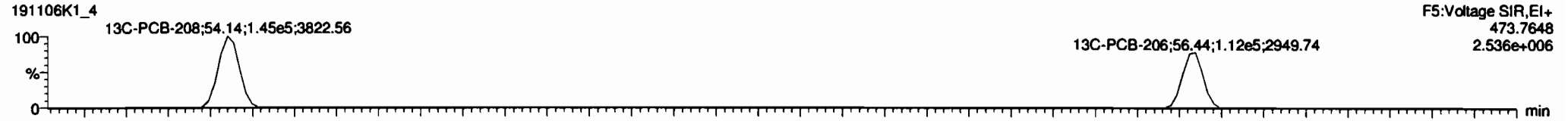
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

Name: 191106K1\_4, Date: 06-Nov-2019, Time: 15:59:24, ID: B9K0010-BS1 OPR 5, Description: OPR

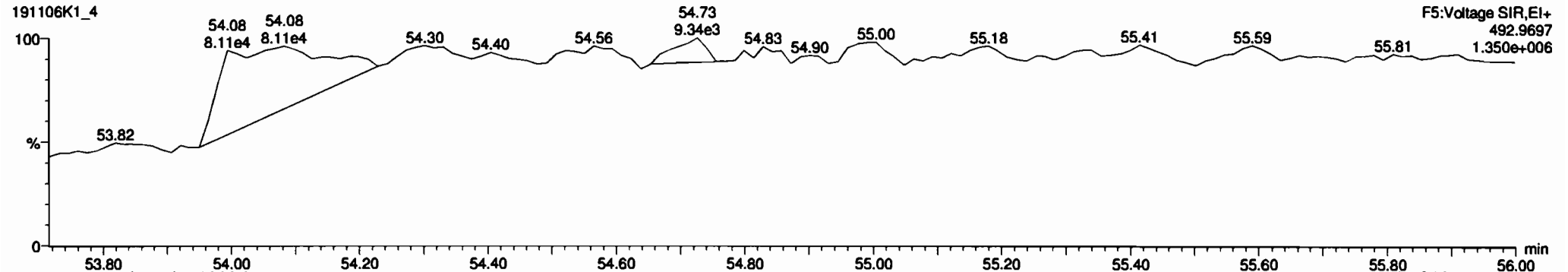
**PCB-208**



**13C-PCB-208**



**PFK5**





Dataset: Untitled

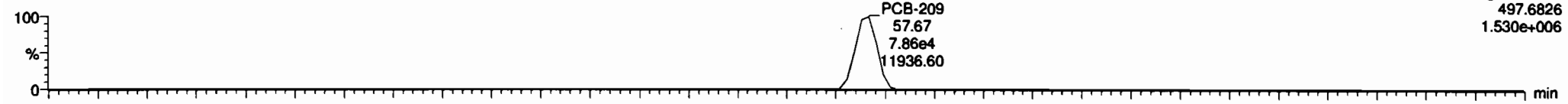
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time

Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

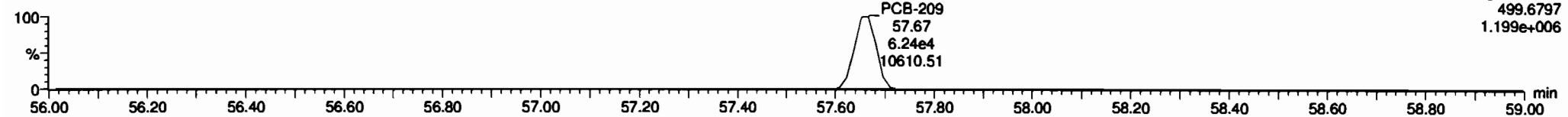
Name: 191106K1\_4, Date: 06-Nov-2019, Time: 15:59:24, ID: B9K0010-BS1 OPR 5, Description: OPR

**PCB-209**

191106K1\_4

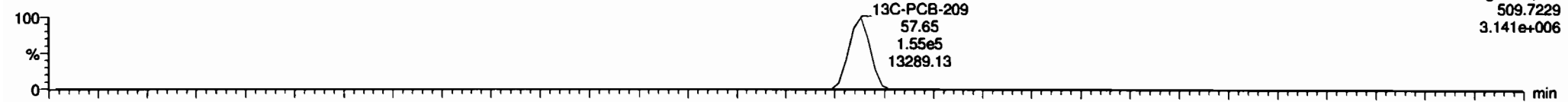


191106K1\_4

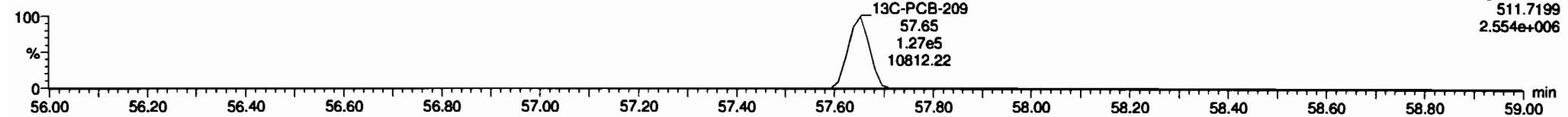


**13C-PCB-209**

191106K1\_4

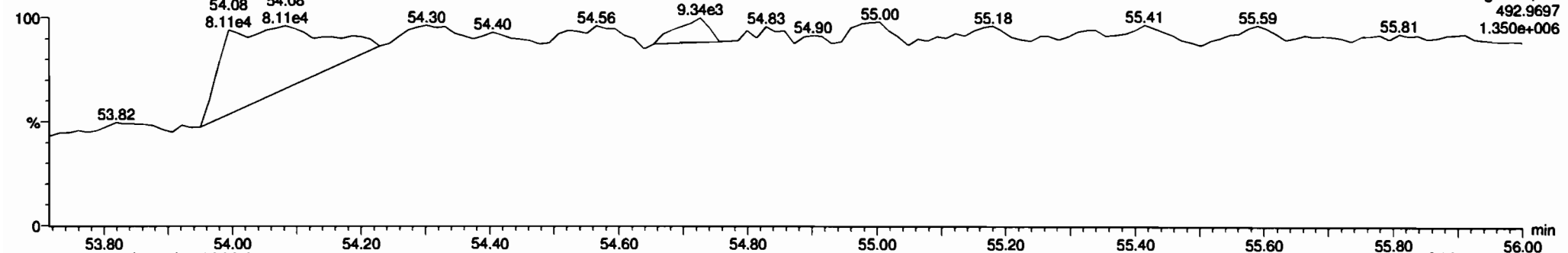


191106K1\_4



**PFK5**

191106K1\_4



Dataset: U:\VG11.PRO\Results\191114K2\191114K2-7.qld

Last Altered: Friday, November 15, 2019 12:41:38 Pacific Standard Time

Printed: Friday, November 15, 2019 12:42:01 Pacific Standard Time

GRB 11/15/19  
CT 11/18/19

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-14-19.mdb 14 Nov 2019 15:03:40  
Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	4.80e2	2.06	YES	1.02	1.000	15.65	15.65	1.001	1.001	NO	5.607		1.47	4.984
2	2 PCB-2			NO	1.01	1.000	18.07		0.988		YES			1.61	
3	3 PCB-3	6.22e2	2.47	YES	1.01	1.000	18.30	18.33	1.001	1.002	NO	7.608		1.61	7.147
4	4 PCB-4/10			NO	1.28	1.000	19.74		1.004		YES			5.43	
5	5 PCB-7/9			NO	0.976	1.000	21.56		1.003		YES			4.58	
6	6 PCB-6			NO	1.02	1.000	22.21		1.033		YES			4.39	
7	7 PCB-5/8			NO	1.01	1.000	22.62		1.052		YES			4.42	
8	8 PCB-14			NO	1.03	1.000	23.76		0.952		YES			4.69	
9	9 PCB-11			NO	1.10	1.000	24.98		1.001		YES			4.42	
10	10 PCB-12/13			NO	1.04	1.000	25.42		1.018		YES			4.67	
11	11 PCB-15			NO	1.03	1.000	25.72		1.030		YES			4.71	
12	12 PCB-19			NO	0.934	1.000	23.94		1.001		YES			3.49	
13	13 PCB-30			NO	1.48	1.000	24.86		1.040		YES			2.20	
14	14 PCB-18			NO	0.693	1.000	25.62		0.951		YES			3.11	
15	15 PCB-17			NO	0.667	1.000	25.80		0.958		YES			3.23	
16	16 PCB-24/27			NO	0.915	1.000	26.42		0.981		YES			2.36	
17	17 PCB-16/32	7.05e2	1.05	NO	0.792	1.000	26.95	26.93	1.001	1.000	NO	12.35		2.72	12.35
18	18 PCB-34			NO	0.987	1.000	27.75		0.959		YES			2.19	
19	19 PCB-23			NO	0.974	1.000	27.84		0.962		YES			2.22	
20	20 PCB-29			NO	0.953	1.000	28.08		0.970		YES			2.27	
21	21 PCB-26			NO	1.00	1.000	28.33		0.979		YES			2.16	
22	22 PCB-25			NO	0.978	1.000	28.47		0.984		YES			2.21	
23	23 PCB-31			NO	1.12	1.000	28.87		0.998		YES			1.93	
24	24 PCB-28			NO	1.11	1.000	28.95		1.001		YES			1.96	
25	25 PCB-20/21/33	8.87e2	1.22	YES	1.00	1.000	29.60	29.61	1.023	1.023	NO	11.50		2.16	10.55
26	26 PCB-22			NO	1.03	1.000	30.05		1.039		YES			2.09	
27	27 PCB-36			NO	1.18	1.000	30.70		0.932		YES			2.14	
28	28 PCB-39			NO	1.08	1.000	31.20		0.947		YES			2.32	
29	29 PCB-38			NO	1.13	1.000	32.00		0.971		YES			2.23	
30	30 PCB-35			NO	1.13	1.000	32.52		0.987		YES			2.22	

Dataset: U:\VG11.PRO\Results\191114K2\191114K2-7.qld

Last Altered: Friday, November 15, 2019 12:41:38 Pacific Standard Time

Printed: Friday, November 15, 2019 12:42:01 Pacific Standard Time

Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
31	31 PCB-37			NO	1.11	1.000	32.99		1.001		YES			2.28	
32	32 PCB-54			NO	0.996	1.000	27.80		1.001		YES			1.65	
33	33 PCB-50	9.93e1	0.70	NO	0.781	1.000	29.04	28.99	1.045	1.044	NO	1.974		2.10	1.974
34	34 PCB-53			NO	0.955	1.000	29.68		0.944		YES			2.47	
35	35 PCB-51			NO	1.02	1.000	30.00		0.955		YES			2.31	
36	36 PCB-45			NO	0.808	1.000	30.44		0.969		YES			2.92	
37	37 PCB-46			NO	0.754	1.000	30.96		0.985		YES			3.13	
38	38 PCB-52/69	3.97e2	0.63	YES	1.09	1.000	31.47	31.47	1.001	1.001	NO	7.916		2.16	7.010
39	39 PCB-73			NO	1.29	1.000	31.59		1.005		YES			1.83	
40	40 PCB-43/49			NO	0.940	1.000	31.76		1.010		YES			2.51	
41	41 PCB-47			NO	0.869	1.000	31.97		1.001		YES			2.52	
42	42 PCB-48/75	2.46e2	0.89	NO	1.02	1.000	32.08	32.10	1.004	1.005	NO	4.772		2.14	4.772
43	43 PCB-65			NO	1.11	1.000	32.35		1.013		YES			1.98	
44	44 PCB-62			NO	1.07	1.000	32.46		1.016		YES			2.06	
45	45 PCB-44			NO	0.761	1.000	32.80		1.027		YES			2.88	
46	46 PCB-42/59			NO	0.960	1.000	33.02		1.033		YES			2.28	
47	47 PCB-41/64/71/72	4.17e2	1.19	YES	1.08	1.000	33.64	33.64	1.053	1.053	NO	7.657		2.05	6.181
48	48 PCB-68			NO	1.11	1.000	33.90		1.061		YES			1.98	
49	49 PCB-40			NO	0.577	1.000	34.15		1.069		YES			3.80	
50	50 PCB-57			NO	1.05	1.000	34.48		0.969		YES			1.77	
51	51 PCB-67			NO	0.993	1.000	34.80		0.978		YES			1.87	
52	52 PCB-58			NO	1.11	1.000	34.93		0.981		YES			1.67	
53	53 PCB-63			NO	0.962	1.000	35.09		0.986		YES			1.93	
54	54 PCB-74			NO	1.07	1.000	35.40		0.994		YES			1.74	
55	55 PCB-61/70			NO	0.986	1.000	35.61		1.000		YES			1.89	
56	56 PCB-76/66			NO	1.07	1.000	35.77		1.005		YES			1.74	
57	57 PCB-80			NO	1.08	1.000	36.07		1.001		YES			1.70	
58	58 PCB-55			NO	1.07	1.000	36.39		1.010		YES			1.73	
59	59 PCB-56/60			NO	0.934	1.000	36.88		1.023		YES			1.97	
60	60 PCB-79			NO	1.04	1.000	38.00		1.054		YES			1.76	
61	61 PCB-78			NO	1.03	1.000	38.73		0.987		YES			1.96	
62	62 PCB-81			NO	0.933	1.000	39.26		1.000		YES			2.17	
63	63 PCB-77			NO	1.03	1.000	39.88		1.000		YES			2.01	

Dataset: U:\VG11.PRO\Results\191114K2\191114K2-7.qld

Last Altered: Friday, November 15, 2019 12:41:38 Pacific Standard Time

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Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
64	64 PCB-104			NO	0.995	1.000	32.64		1.001		YES			3.08	
65	65 PCB-96			NO	0.996	1.000	33.96		1.041		YES			3.08	
66	66 PCB-103			NO	0.774	1.000	34.53		1.059		YES			3.96	
67	67 PCB-100			NO	0.778	1.000	34.91		1.070		YES			3.94	
68	68 PCB-94			NO	0.773	1.000	35.37		0.985		YES			5.43	
69	69 PCB-95/98/102			NO	1.01	1.000	35.84		0.999		YES			4.14	
70	70 PCB-93			NO	0.841	1.000	35.97		1.002		YES			4.99	
71	71 PCB-88/91			NO	0.890	1.000	36.33		1.012		YES			4.72	
72	72 PCB-121			NO	1.39	1.000	36.44		1.015		YES			3.03	
73	73 PCB-84/92			NO	0.879	1.000	37.28		0.990		YES			5.34	
74	74 PCB-89			NO	0.959	1.000	37.45		0.995		YES			4.89	
75	75 PCB-90/101			NO	0.944	1.000	37.66		1.000		YES			4.97	
76	76 PCB-113			NO	1.23	1.000	37.91		1.007		YES			3.81	
77	77 PCB-99			NO	1.12	1.000	38.01		1.010		YES			4.19	
78	78 PCB-119			NO	1.47	1.000	38.49		0.987		YES			3.50	
79	79 PCB-108/112			NO	1.25	1.000	38.66		0.991		YES			4.12	
80	80 PCB-83			NO	1.55	1.000	38.81		0.995		YES			3.33	
81	81 PCB-97			NO	1.07	1.000	39.04		1.001		YES			4.79	
82	82 PCB-86			NO	0.996	1.000	39.19		1.005		YES			5.17	
83	83 PCB-87/117/125			NO	1.33	1.000	39.30		1.008		YES			3.86	
84	84 PCB-111/115			NO	1.60	1.000	39.47		1.012		YES			3.21	
85	85 PCB-85/116			NO	1.22	1.000	39.59		1.015		YES			4.23	
86	86 PCB-120			NO	1.68	1.000	39.86		1.022		YES			3.06	
87	87 PCB-110			NO	1.49	1.000	40.01		1.026		YES			3.46	
88	88 PCB-82			NO	0.674	1.000	40.63		0.976		YES			5.58	
89	89 PCB-124			NO	1.16	1.000	41.34		0.993		YES			3.24	
90	90 PCB-107/109			NO	1.17	1.000	41.50		0.996		YES			3.23	
91	91 PCB-123			NO	1.04	1.000	41.67		1.000		YES			3.61	
92	92 PCB-106/118			NO	1.07	1.000	41.87		1.001		YES			3.49	
93	93 PCB-114			NO	1.16	1.000	42.53		1.000		YES			2.93	
94	94 PCB-122			NO	0.973	1.000	42.66		1.003		YES			3.50	
95	95 PCB-105			NO	1.10	1.000	43.41		1.000		YES			3.06	
96	96 PCB-127			NO	1.11	1.000	43.77		1.000		YES			2.89	

Dataset: U:\VG11.PRO\Results\191114K2\191114K2-7.qld

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Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
97	97 PCB-126			NO	1.21	1.000	45.75		1.000		YES			3.16	
98	98 PCB-155			NO	0.874	1.000	37.20		1.000		YES			1.91	
99	99 PCB-150			NO	0.881	1.000	38.50		1.036		YES			1.89	
100	1... PCB-152			NO	1.00	1.000	38.98		1.048		YES			1.66	
101	1... PCB-145			NO	1.00	1.000	39.45		1.061		YES			1.67	
102	1... PCB-136			NO	0.843	1.000	39.78		1.070		YES			1.98	
103	1... PCB-148			NO	0.693	1.000	39.89		1.073		YES			2.40	
104	1... PCB-154			NO	0.724	1.000	40.42		1.087		YES			2.30	
105	1... PCB-151			NO	0.632	1.000	41.07		1.105		YES			2.64	
106	1... PCB-135			NO	0.716	1.000	41.29		1.111		YES			2.33	
107	1... PCB-144			NO	0.667	1.000	41.40		1.114		YES			2.50	
108	1... PCB-147			NO	0.661	1.000	41.53		1.117		YES			2.52	
109	1... PCB-139/149			NO	0.738	1.000	41.81		1.125		YES			2.26	
110	1... PCB-140			NO	0.627	1.000	42.00		1.130		YES			2.66	
111	1... PCB-134/143			NO	0.733	1.000	42.47		0.975		YES			1.84	
112	1... PCB-131/133			NO	0.790	1.000	42.76		0.982		YES			1.71	
113	1... PCB-142			NO	0.708	1.000	42.91		0.985		YES			1.91	
114	1... PCB-146/165			NO	0.959	1.000	43.17		0.991		YES			1.41	
115	1... PCB-132/161			NO	0.974	1.000	43.40		0.996		YES			1.39	
116	1... PCB-153			NO	1.01	1.000	43.59		1.000		YES			1.34	
117	1... PCB-168			NO	1.02	1.000	43.82		1.006		YES			1.33	
118	1... PCB-141			NO	0.967	1.000	44.34		1.000		YES			1.74	
119	1... PCB-137			NO	0.987	1.000	44.72		1.009		YES			1.70	
120	1... PCB-130			NO	0.840	1.000	44.84		1.012		YES			2.00	
121	1... PCB-138/163/164			NO	1.23	1.000	45.23		1.001		YES			1.29	
122	1... PCB-158/160			NO	1.18	1.000	45.48		1.006		YES			1.34	
123	1... PCB-129			NO	0.819	1.000	45.73		1.012		YES			1.93	
124	1... PCB-166			NO	1.07	1.000	46.23		0.993		YES			1.27	
125	1... PCB-159			NO	1.12	1.000	46.56		1.000		YES			1.21	
126	1... PCB-128/162			NO	0.851	1.000	46.85		1.007		YES			1.59	
127	1... PCB-167			NO	1.04	1.000	47.26		1.000		YES			1.28	
128	1... PCB-156			NO	1.06	1.000	48.59		1.000		YES			1.32	
129	1... PCB-157			NO	0.978	1.000	48.87		1.001		YES			1.51	

Dataset: U:\VG11.PRO\Results\191114K2\191114K2-7.qld

Last Altered: Friday, November 15, 2019 12:41:38 Pacific Standard Time  
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Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
130	1... PCB-169			NO	1.11	1.000	51.15		1.000		YES			1.58	
131	1... PCB-188			NO	1.19	1.000	43.23		1.001		YES			1.17	
132	1... PCB-184			NO	1.17	1.000	43.67		1.011		YES			1.19	
133	1... PCB-179			NO	1.18	1.000	44.48		1.030		YES			1.19	
134	1... PCB-176			NO	1.16	1.000	44.95		1.041		YES			1.20	
135	1... PCB-186			NO	1.22	1.000	45.57		1.055		YES			1.14	
136	1... PCB-178			NO	0.830	1.000	46.08		1.067		YES			1.68	
137	1... PCB-175			NO	0.849	1.000	46.44		1.075		YES			1.64	
138	1... PCB-182/187			NO	0.960	1.000	46.64		1.080		YES			1.45	
139	1... PCB-183			NO	0.957	1.000	46.97		1.088		YES			1.46	
140	1... PCB-185			NO	1.32	1.000	47.64		0.955		YES			1.79	
141	1... PCB-174			NO	1.22	1.000	48.02		0.962		YES			1.94	
142	1... PCB-181			NO	1.41	1.000	48.11		0.964		YES			1.67	
143	1... PCB-177			NO	1.24	1.000	48.29		0.968		YES			1.90	
144	1... PCB-171			NO	1.24	1.000	48.59		0.974		YES			1.90	
145	1... PCB-173			NO	1.14	1.000	49.03		0.983		YES			2.07	
146	1... PCB-172			NO	1.31	1.000	49.51		0.992		YES			1.81	
147	1... PCB-192			NO	1.70	1.000	49.71		0.996		YES			1.39	
148	1... PCB-180			NO	1.32	1.000	49.91		1.000		YES			1.79	
149	1... PCB-193			NO	1.54	1.000	50.14		1.005		YES			1.53	
150	1... PCB-191			NO	1.57	1.000	50.39		1.010		YES			1.50	
151	1... PCB-170			NO	1.36	1.000	51.58		1.000		YES			2.00	
152	1... PCB-190			NO	1.84	1.000	51.77		1.004		YES			1.48	
153	1... PCB-189			NO	1.33	1.000	53.27		1.000		YES			1.29	
154	1... PCB-202			NO	1.02	1.000	48.82		1.001		YES			1.79	
155	1... PCB-201			NO	0.915	1.000	49.30		1.011		YES			2.01	
156	1... PCB-204			NO	0.979	1.000	49.45		1.014		YES			1.88	
157	1... PCB-197			NO	0.979	1.000	49.77		1.020		YES			1.88	
158	1... PCB-200			NO	0.954	1.000	50.72		1.040		YES			1.93	
159	1... PCB-198			NO	0.748	1.000	52.24		1.071		YES			2.46	
160	1... PCB-199			NO	0.706	1.000	52.35		1.073		YES			2.60	
161	1... PCB-196/203			NO	0.785	1.000	52.68		1.080		YES			2.34	
162	1... PCB-195			NO	1.03	1.000	53.95		0.984		YES			1.60	

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Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
163	1... PCB-194	1.73e2	0.35	YES	1.16	1.000	54.88	54.87	1.000	1.000	NO	5.528		0.430	3.069
164	1... PCB-205			NO	1.40	1.000	55.14		1.005		YES			1.18	
165	1... PCB-208	5.28e1	1.56	YES	0.934	1.000	54.11	54.13	1.000	1.001	NO	1.657		0.522	1.513
166	1... PCB-207			NO	0.912	1.000	54.43		1.006		YES			0.873	
167	1... PCB-206			NO	0.987	1.000	56.40		1.000		YES			1.13	
168	1... PCB-209	6.30e1	0.59	YES	0.943	1.000	57.61	57.61	1.000	1.000	NO	2.463		0.258	1.695
169	1... 13C-PCB-1	1.68e6	3.05	NO	1.08	1.000	15.65	15.64	0.609	0.609	NO	12660	63.3	9.77	
170	1... 13C-PCB-3	1.62e6	3.23	NO	1.09	1.000	18.30	18.29	0.712	0.712	NO	12110	60.5	9.65	
171	1... 13C-PCB-4	1.23e6	1.62	NO	0.640	1.000	19.66	19.66	0.765	0.765	NO	15650	78.3	5.34	
172	1... 13C-PCB-9	2.01e6	1.58	NO	0.995	1.000	21.49	21.50	0.837	0.837	NO	16430	82.1	3.44	
173	1... 13C-PCB-11	1.87e6	1.58	NO	0.971	1.000	24.97	24.97	0.972	0.972	NO	15640	78.2	3.52	
174	1... 13C-PCB-19	9.14e5	1.00	NO	0.637	1.000	23.91	23.91	0.931	0.931	NO	11660	58.3	31.1	
175	1... 13C-PCB-32	1.44e6	0.98	NO	0.910	1.000	26.93	26.92	1.048	1.048	NO	12870	64.4	21.8	
176	1... 13C-PCB-28	1.54e6	0.96	NO	1.07	1.000	28.93	28.93	1.003	1.003	NO	14220	71.1	34.2	
177	1... 13C-PCB-37	1.47e6	1.00	NO	0.959	1.000	32.92	32.96	1.141	1.143	NO	15200	76.0	38.1	
178	1... 13C-PCB-54	1.29e6	0.76	NO	1.10	1.000	27.76	27.78	0.753	0.753	NO	17870	89.3	10.4	
179	1... 13C-PCB-52	9.19e5	0.74	NO	0.844	1.000	31.45	31.43	0.853	0.852	NO	16590	83.0	13.5	
180	1... 13C-PCB-47	1.01e6	0.75	NO	0.893	1.000	31.97	31.95	0.867	0.866	NO	17190	86.0	12.8	
181	1... 13C-PCB-70	1.16e6	0.75	NO	1.01	1.000	35.59	35.60	0.965	0.965	NO	17580	87.9	11.3	
182	1... 13C-PCB-80	1.19e6	0.75	NO	1.05	1.000	36.02	36.04	0.977	0.977	NO	17350	86.7	10.9	
183	1... 13C-PCB-81	1.08e6	0.76	NO	0.985	1.000	39.24	39.24	1.064	1.064	NO	16760	83.8	11.6	
184	1... 13C-PCB-77	1.07e6	0.78	NO	0.958	1.000	39.85	39.86	1.080	1.081	NO	16950	84.7	11.9	
185	1... 13C-PCB-104	9.86e5	1.62	NO	1.10	1.000	32.64	32.62	0.827	0.827	NO	17330	86.6	4.85	
186	1... 13C-PCB-95	7.16e5	1.64	NO	0.852	1.000	35.91	35.90	0.910	0.910	NO	16200	81.0	6.25	
187	1... 13C-PCB-101	6.38e5	1.66	NO	0.814	1.000	37.66	37.64	0.955	0.954	NO	15100	75.5	6.54	
188	1... 13C-PCB-97	5.90e5	1.59	NO	0.709	1.000	39.00	39.00	0.989	0.989	NO	16030	80.2	7.50	
189	1... 13C-PCB-123	7.99e5	1.64	NO	0.922	1.000	41.63	41.65	1.055	1.056	NO	16710	83.6	5.77	
190	1... 13C-PCB-118	8.26e5	1.62	NO	0.975	1.000	41.82	41.83	1.060	1.060	NO	16320	81.6	5.46	
191	1... 13C-PCB-114	8.85e5	1.49	NO	1.52	1.000	42.51	42.51	0.908	0.908	NO	16620	83.1	7.72	
192	1... 13C-PCB-105	8.89e5	1.53	NO	1.58	1.000	43.40	43.40	0.927	0.927	NO	16020	80.1	7.41	
193	1... 13C-PCB-127	9.35e5	1.48	NO	1.62	1.000	43.76	43.76	0.935	0.935	NO	16460	82.3	7.23	
194	1... 13C-PCB-126	8.39e5	1.54	NO	1.45	1.000	45.71	45.73	0.976	0.977	NO	16550	82.8	8.11	
195	1... 13C-PCB-155	6.14e5	1.33	NO	1.03	1.000	37.17	37.18	0.942	0.942	NO	11520	57.6	1.89	

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Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
196	1... 13C-PCB-153	7.63e5	1.24	NO	1.42	1.000	43.57	43.57	0.931	0.931	NO	15300	76.5	9.83	
197	1... 13C-PCB-141	6.40e5	1.27	NO	1.14	1.000	44.35	44.33	0.947	0.947	NO	15980	79.9	12.2	
198	1... 13C-PCB-138	6.54e5	1.26	NO	1.18	1.000	45.22	45.20	0.966	0.966	NO	15810	79.1	11.9	
199	1... 13C-PCB-159	8.11e5	1.25	NO	1.43	1.000	46.55	46.54	0.994	0.994	NO	16140	80.7	9.76	
200	2... 13C-PCB-167	7.92e5	1.28	NO	1.42	1.000	47.25	47.24	1.009	1.009	NO	15880	79.4	9.83	
201	2... 13C-PCB-156	7.48e5	1.25	NO	1.40	1.000	48.57	48.57	1.038	1.038	NO	15260	76.3	10.0	
202	2... 13C-PCB-157	7.69e5	1.28	NO	1.41	1.000	48.85	48.83	1.044	1.043	NO	15590	78.0	9.95	
203	2... 13C-PCB-169	6.44e5	1.26	NO	1.35	1.000	51.12	51.13	1.092	1.092	NO	13660	68.3	10.4	
204	2... 13C-PCB-188	6.74e5	0.45	NO	1.46	1.000	43.17	43.19	0.926	0.926	NO	15780	78.9	7.29	
205	2... 13C-PCB-180	4.01e5	0.45	NO	0.932	1.000	49.87	49.90	1.070	1.070	NO	14720	73.6	11.4	
206	2... 13C-PCB-170	3.46e5	0.45	NO	0.796	1.000	51.54	51.56	1.106	1.106	NO	14910	74.5	13.4	
207	2... 13C-PCB-189	4.93e5	0.44	NO	1.09	1.000	53.22	53.25	1.142	1.142	NO	15470	77.4	9.78	
208	2... 13C-PCB-202	5.70e5	0.92	NO	1.45	1.000	48.78	48.78	1.046	1.046	NO	13470	67.3	5.43	
209	2... 13C-PCB-194	5.40e5	0.90	NO	0.714	1.000	54.86	54.86	0.995	0.995	NO	15970	79.9	8.87	
210	2... 13C-PCB-208	6.83e5	0.79	NO	0.896	1.000	54.10	54.10	0.982	0.981	NO	16070	80.4	5.78	
211	2... 13C-PCB-206	4.75e5	0.78	NO	0.653	1.000	56.38	56.38	1.023	1.023	NO	15350	76.7	7.94	
212	2... 13C-PCB-209	5.43e5	1.25	NO	0.806	1.000	57.61	57.61	1.045	1.045	NO	14220	71.1	4.52	
213	2... 13C-PCB-15	2.46e6	1.58	NO	1.00	1.000	25.71	25.69	1.000	0.000	NO	20000	100	3.42	
214	2... 13C-PCB-31	2.02e6	0.96	NO	1.00	1.000	28.84	28.84	1.000	0.000	NO	20000	100	36.5	
215	2... 13C-PCB-60	1.31e6	0.76	NO	1.00	1.000	36.90	36.88	1.000	0.000	NO	20000	100	11.4	
216	2... 13C-PCB-111	1.04e6	1.64	NO	1.00	1.000	39.47	39.45	1.000	0.000	NO	20000	100	5.32	
217	2... 13C-PCB-128	7.01e5	1.27	NO	1.00	1.000	46.82	46.81	1.000	0.000	NO	20000	100	14.0	
218	2... 13C-PCB-182	5.84e5	0.46	NO	1.00	1.000	46.65	46.62	0.000	0.000	NO	20000	100	10.7	
219	2... 13C-PCB-205	9.48e5	0.90	NO	1.00	1.000	55.15	55.12	1.000	0.000	NO	20000	100	6.33	
220	2... 13C-PCB-79	1.16e6	0.75	NO	1.03	1.000	38.01	37.98	1.031	1.030	NO	17060	85.3	11.0	
221	2... 13C-PCB-178	4.63e5	0.44	NO	0.875	1.000	46.07	46.07	0.988	0.988	NO	15100	75.5	9.75	
222	2... 13C-PCB-79	1.16e6	0.75	NO	1.05	1.000	37.97	37.98	0.967	0.968	NO	20400	102	13.4	
223	2... 13C-PCB-178	4.63e5	0.44	NO	0.975	1.000	46.08	46.07	0.924	0.923	NO	23700	119	15.3	
224	2... Total Mono-PCBs				1.01	1.000	0.00		0.000		NO	0.0000		<del>4.09</del> 1.61	12.13
225	2... Total Di-PCBs				1.06	1.000	0.00		0.000		NO			37.2	5.43
226	2... 2nd Function Tri-PCBs				0.914	1.000	0.00		0.000		NO	12.35		17.1	12.35
227	2... 3rd Function Tri-PCBs				1.06	1.000	0.00		0.000		NO	0.0000		36.4	10.55
228	2... Total Tetra-PCBs				0.986	1.000	0.00		0.000		NO	6.746		66.7	3.80



Dataset: U:\VG11.PRO\Results\191114K2\191114K2-7.qld

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Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
229	2... 3rd Function Penta-PCBs				1.12	1.000	0.00		0.000		NO			14.7	
230	2... 4th Function Penta-PCBs				1.11	1.000	0.00		0.000		NO			15.8	
231	2... 3rd Function Hexa-PCBs				0.774	1.000	0.00		0.000		NO			28.7	
232	2... 4th Function Hexa-PCBs				0.972	1.000	0.00		0.000		NO			30.7	
233	2... Total Hepta-PCBs				1.26	1.000	0.00		0.000		NO			86.2	
234	2... 4th Function Octa-PCBs				0.886	1.000	0.00		0.000		NO			16.8	
235	2... 5th Function Octa-PCBs				1.20	1.000	0.00		0.000		NO	0.0000		3.21	3.069
236	2... Total Nona-PCBs				0.945	1.000	0.00		0.000		NO	0.0000		2.52	1.513
237	2... Deca-CB				0.943	1.000	0.00		0.000		NO	0.0000		0.253	1.695
238	2... Total PCBs														

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Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-14-19.mdb 14 Nov 2019 15:03:40

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

**Total Mono-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-1	15.65	15.65	5.910e3	2.105e3	3.233e2	1.567e2	2.06	YES	4.800e2	0.00000	4.9837	1.41
2	PCB-3	18.30	18.33	6.900e3	2.697e3	4.430e2	1.792e2	2.47	YES	6.222e2	0.00000	7.1473	1.61

**Total Di-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1													

**2nd Function Tri-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-16/32	26.95	26.93	3.956e3	4.915e3	3.610e2	3.439e2	1.05	NO	7.049e2	12.352	12.352	2.72

**3rd Function Tri-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-20/21/33	29.60	29.61	4.459e3	4.304e3	4.881e2	3.988e2	1.22	YES	8.868e2	0.00000	10.550	2.16

**Total Tetra-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-50	29.04	28.99	7.270e2	1.056e3	4.090e1	5.838e1	0.70	NO	9.927e1	1.9736	1.9736	2.10
2	PCB-52/69	31.47	31.47	2.241e3	2.987e3	1.530e2	2.442e2	0.63	YES	3.972e2	0.00000	7.0100	2.16
3	PCB-48/75	32.08	32.10	1.833e3	2.070e3	1.157e2	1.307e2	0.89	NO	2.464e2	4.7724	4.7724	2.14
4	PCB-41/64/71/72	33.64	33.64	2.149e3	2.291e3	2.271e2	1.904e2	1.19	YES	4.175e2	0.00000	6.1811	2.03

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Dataset: U:\VG11.PRO\Results\191114K2\191114K2-7.qld

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ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

3rd Function Penta-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

4th Function Penta-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

3rd Function Hexa-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

4th Function Hexa-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Total Hepta-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

4th Function Octa-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

5th Function Octa-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	PCB-194	54.88	54.87	8.050e2	2.545e3	4.513e1	1.275e2	0.35	YES	1.726e2	0.00000	3.0691	0.430

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**ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank**

**Total Nona-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-208	54.11	54.13	6.650e2	4.690e2	3.221e1	2.062e1	1.56	YES	5.283e1	0.00000	1.5133	0.522

**Deca-CB**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-209	57.61	57.61	5.370e2	6.720e2	2.339e1	3.963e1	0.59	YES	6.302e1	0.00000	1.6955	0.253

**Total PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**Total Mono-Isotopes**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 13C-PCB-1	15.65	15.64	2.183e7	7.124e6	1.263e6	4.144e5	3.05	NO	1.678e6	12660		9.77
2 13C-PCB-3	18.30	18.29	1.955e7	6.325e6	1.241e6	3.836e5	3.23	NO	1.624e6	12107		9.65

**Total Di-Isotopes**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 13C-PCB-4	19.66	19.66	1.262e7	7.799e6	7.612e5	4.707e5	1.62	NO	1.232e6	15654		5.34
2 13C-PCB-9	21.49	21.50	1.938e7	1.239e7	1.231e6	7.796e5	1.58	NO	2.011e6	16428		3.44
3 13C-PCB-11	24.97	24.97	1.789e7	1.133e7	1.145e6	7.231e5	1.58	NO	1.868e6	15638		3.52
4 13C-PCB-15	25.71	25.69	2.303e7	1.463e7	1.506e6	9.532e5	1.58	NO	2.460e6	20000		3.42

**2nd Function Tri-Isotopes**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 13C-PCB-19	23.91	23.91	7.260e6	7.255e6	4.559e5	4.582e5	1.00	NO	9.141e5	11664		31.1
2 13C-PCB-32	26.93	26.92	1.090e7	1.101e7	7.142e5	7.263e5	0.98	NO	1.441e6	12873		21.8

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ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

3rd Function Tri-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-31	28.84	28.84	1.256e7	1.288e7	9.926e5	1.029e6	0.96	NO	2.022e6	20000		36.5
2	13C-PCB-28	28.93	28.93	1.051e7	1.085e7	7.530e5	7.837e5	0.96	NO	1.537e6	14219		34.2
3	13C-PCB-37	32.92	32.96	9.194e6	9.134e6	7.356e5	7.386e5	1.00	NO	1.474e6	15200		38.1

Tetra-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-54	27.76	27.78	7.394e6	9.734e6	5.549e5	7.329e5	0.76	NO	1.288e6	17865		10.4
2	13C-PCB-52	31.45	31.43	5.077e6	6.859e6	3.917e5	5.275e5	0.74	NO	9.192e5	16590		13.5
3	13C-PCB-47	31.97	31.95	5.513e6	7.401e6	4.333e5	5.747e5	0.75	NO	1.008e6	17193		12.8
4	13C-PCB-70	35.59	35.60	6.502e6	8.676e6	4.999e5	6.630e5	0.75	NO	1.163e6	17583		11.3
5	13C-PCB-80	36.02	36.04	6.536e6	8.760e6	5.101e5	6.807e5	0.75	NO	1.191e6	17348		10.9
6	13C-PCB-60	36.90	36.88	7.332e6	9.643e6	5.651e5	7.476e5	0.76	NO	1.313e6	20000		11.4
7	13C-PCB-79	38.01	37.98	6.414e6	8.468e6	4.949e5	6.605e5	0.75	NO	1.155e6	17059		11.0
8	13C-PCB-81	39.24	39.24	5.998e6	7.823e6	4.681e5	6.152e5	0.76	NO	1.083e6	16758		11.6
9	13C-PCB-77	39.85	39.86	5.929e6	7.685e6	4.660e5	6.000e5	0.78	NO	1.066e6	16947		11.9

3rd Function Penta-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-104	32.64	32.62	7.833e6	4.873e6	6.097e5	3.768e5	1.62	NO	9.865e5	17329		4.85
2	13C-PCB-95	35.91	35.90	5.752e6	3.503e6	4.453e5	2.708e5	1.64	NO	7.161e5	16196		6.25
3	13C-PCB-101	37.66	37.64	5.166e6	3.128e6	3.976e5	2.402e5	1.66	NO	6.378e5	15105		6.54
4	13C-PCB-97	39.00	39.00	4.632e6	2.937e6	3.620e5	2.281e5	1.59	NO	5.902e5	16033		7.50
5	13C-PCB-111	39.47	39.45	8.473e6	5.196e6	6.447e5	3.932e5	1.64	NO	1.038e6	20000		5.32
6	13C-PCB-123	41.63	41.65	6.421e6	3.911e6	4.969e5	3.023e5	1.64	NO	7.992e5	16710		5.77
7	13C-PCB-118	41.82	41.83	6.436e6	4.007e6	5.108e5	3.151e5	1.62	NO	8.259e5	16325		5.46

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**4th Function Penta-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-114	42.51	42.51	6.567e6	4.354e6	5.300e5	3.552e5	1.49	NO	8.852e5	16623		7.72
2	13C-PCB-105	43.40	43.40	6.695e6	4.394e6	5.374e5	3.517e5	1.53	NO	8.891e5	16022		7.41
3	13C-PCB-127	43.76	43.76	6.967e6	4.710e6	5.582e5	3.772e5	1.48	NO	9.354e5	16458		7.23
4	13C-PCB-126	45.71	45.73	5.905e6	3.847e6	5.078e5	3.307e5	1.54	NO	8.385e5	16554		8.11

**4th Function Hexa-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-153	43.57	43.57	5.458e6	4.416e6	4.226e5	3.407e5	1.24	NO	7.633e5	15297		9.83
2	13C-PCB-141	44.35	44.33	4.427e6	3.497e6	3.577e5	2.824e5	1.27	NO	6.401e5	15983		12.2
3	13C-PCB-138	45.22	45.20	4.692e6	3.726e6	3.644e5	2.895e5	1.26	NO	6.539e5	15812		11.9
4	13C-PCB-159	46.55	46.54	5.476e6	4.421e6	4.509e5	3.600e5	1.25	NO	8.109e5	16142		9.76
5	13C-PCB-128	46.82	46.81	5.012e6	3.981e6	3.922e5	3.088e5	1.27	NO	7.010e5	20000		14.0
6	13C-PCB-167	47.25	47.24	5.612e6	4.353e6	4.455e5	3.469e5	1.28	NO	7.924e5	15875		9.83
7	13C-PCB-156	48.57	48.57	5.306e6	4.206e6	4.150e5	3.326e5	1.25	NO	7.475e5	15261		10.0
8	13C-PCB-157	48.85	48.83	5.084e6	4.084e6	4.315e5	3.372e5	1.28	NO	7.686e5	15591		9.95
9	13C-PCB-169	51.12	51.13	4.249e6	3.396e6	3.597e5	2.847e5	1.26	NO	6.444e5	13658		10.4

**5th Function Octa-Isotopes**

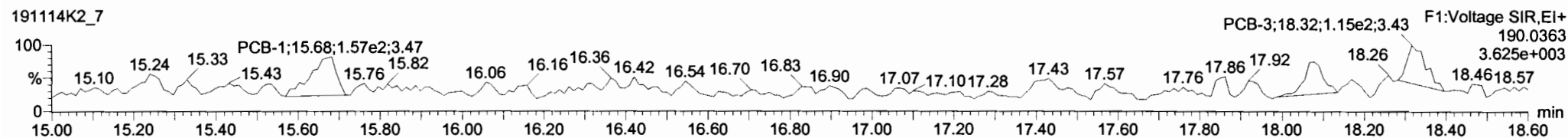
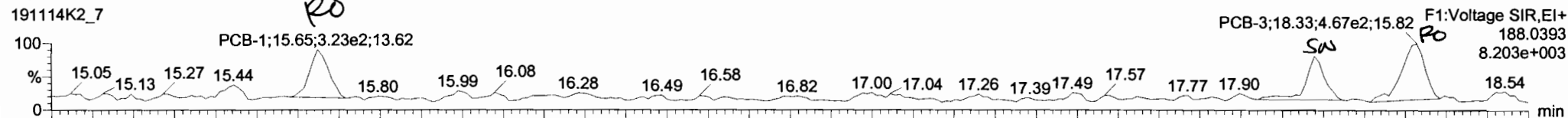
	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-194	54.86	54.86	4.568e6	5.108e6	2.558e5	2.845e5	0.90	NO	5.403e5	15974		8.87
2	13C-PCB-205	55.15	55.12	7.849e6	8.858e6	4.482e5	4.998e5	0.90	NO	9.479e5	20000		6.33

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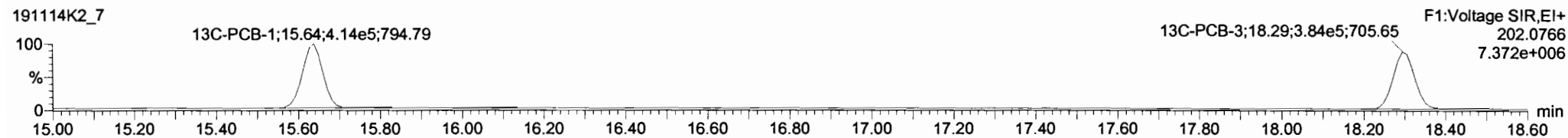
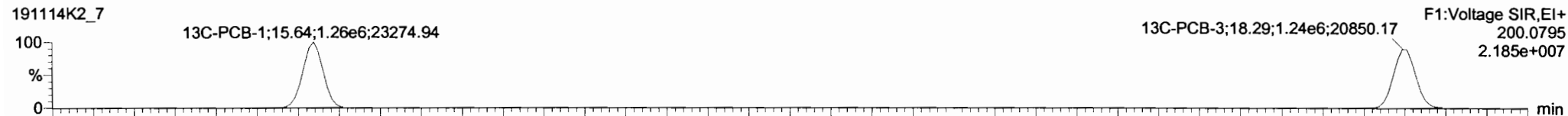
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Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

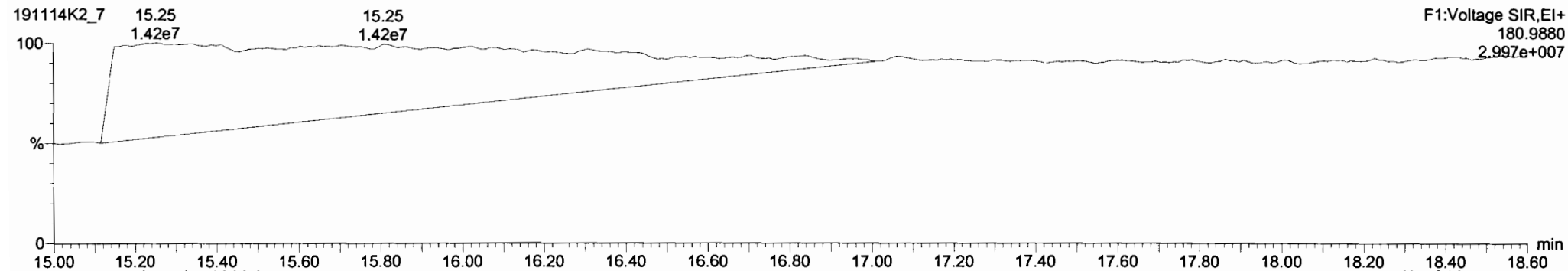
**PCB-1**



**13C-PCB-1**

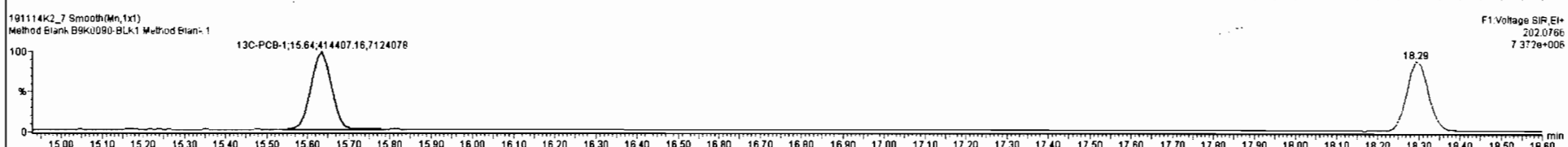
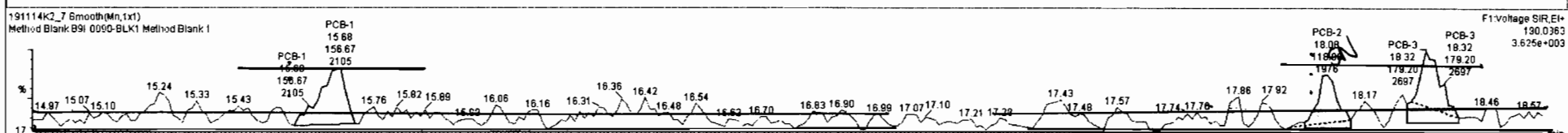
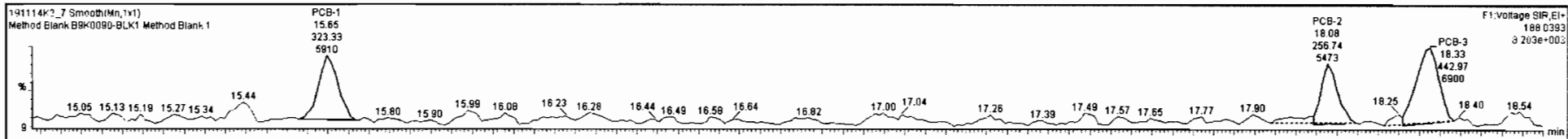


**PFK1**



#	Name	Resp	RA	nly	RF	wtd	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	PCB-1	15.65	15.65	3.233e2	1.567e2	3.130	2.06	YES	4.9637	0.00000					
225	Total DL-PCBs			1.0592	1.000	0.00	0.000	NO				0.0000		37.3	F1:18.27
226	2nd Function Tri-PCBs			0.9137	1.000	0.00	0.000	NO				0.0000		17.1	5.266

#	Name	Pred.RT	RT	wt Resp	wt2 Resp	* Ratio (Pred)	RA	nly	EMPC	Conc.
1	PCB-1	15.65	15.65	3.233e2	1.567e2	3.130	2.06	YES	4.9637	0.00000
2	PCB-2	18.07	18.06	2.567e2	1.181e2	3.130	2.17	YES	4.1340	0.00000
3	PCB-3	18.30	18.33	4.430e2	1.792e2	3.130	2.47	YES	7.1473	0.00000





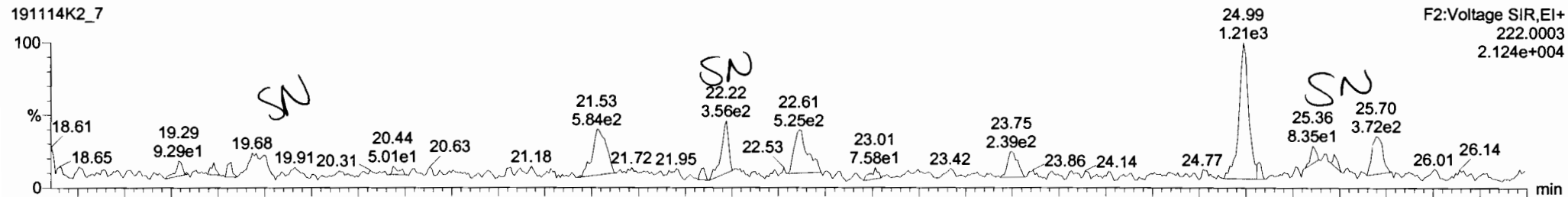
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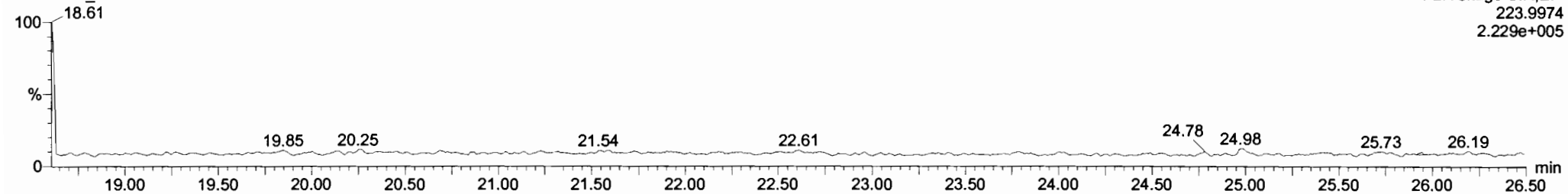
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PCB-4/10

191114K2\_7



191114K2\_7



13C-PCB-4

191114K2\_7

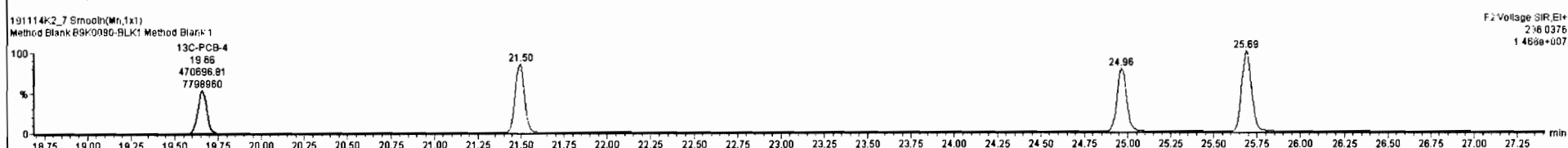
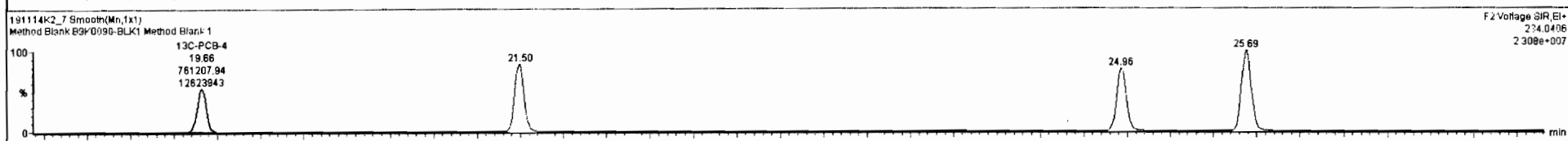
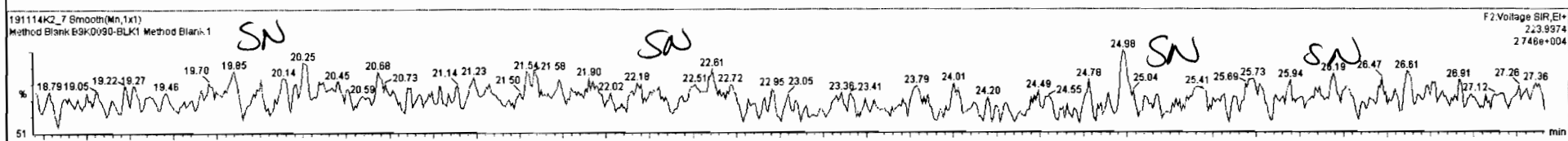
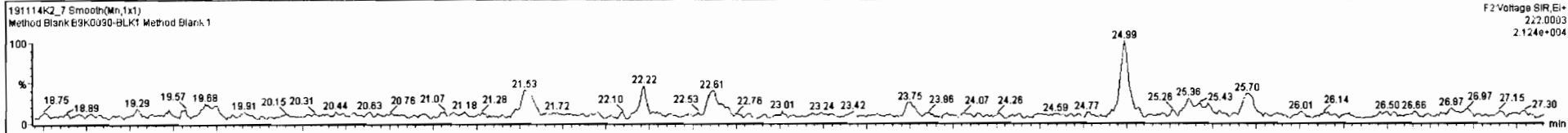


191114K2\_7



#	Name	Resp	RA	nly	RRT	wAdj	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	0.0000		4.63	12.13
225	225 Total Di-PCBs				3.3900	1.000	0.00		0.000		NO	0.0000		37.3	
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	0.0000		17.1	5.296

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	nly	EMPC	Conc.
1										



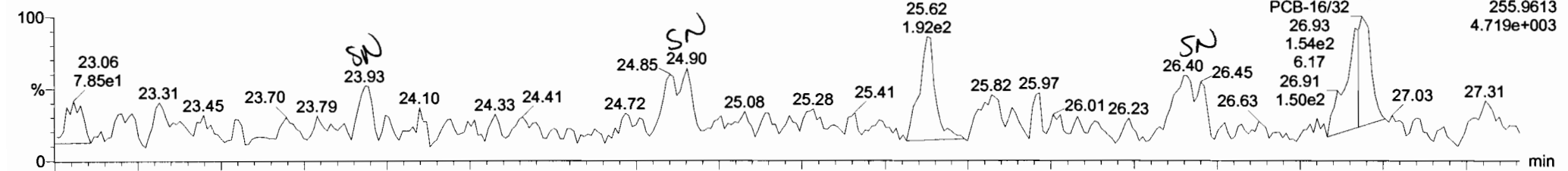
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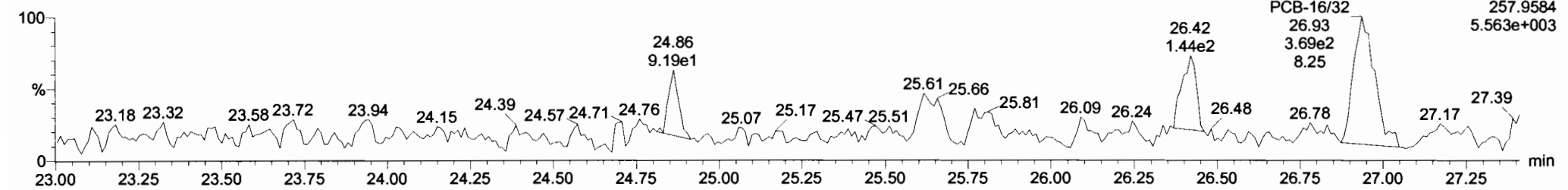
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PCB-19

191114K2\_7

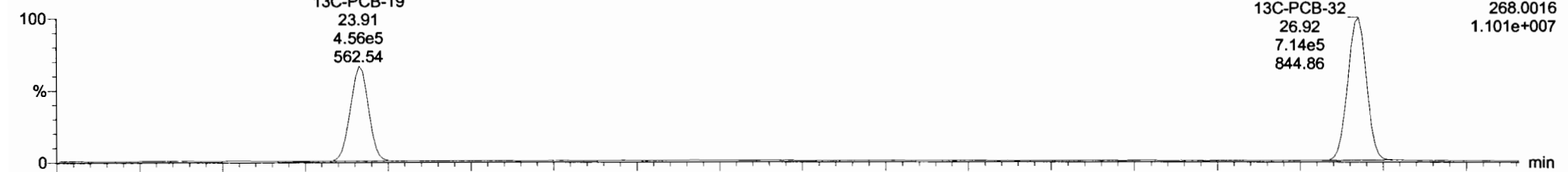


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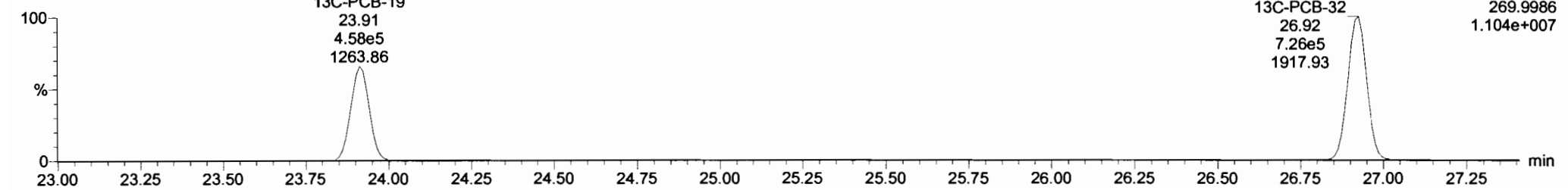


13C-PCB-19

191114K2\_7



191114K2\_7



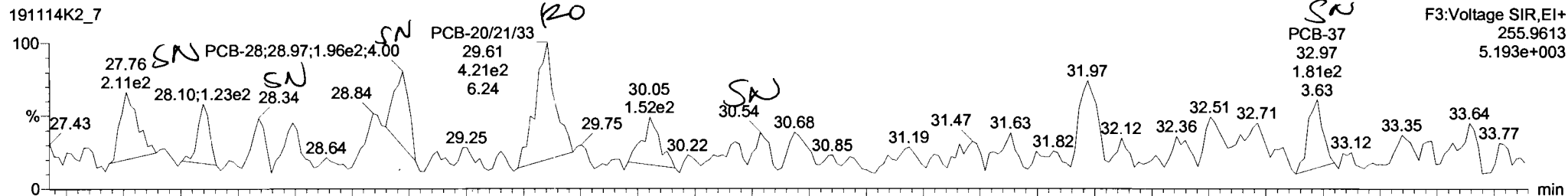


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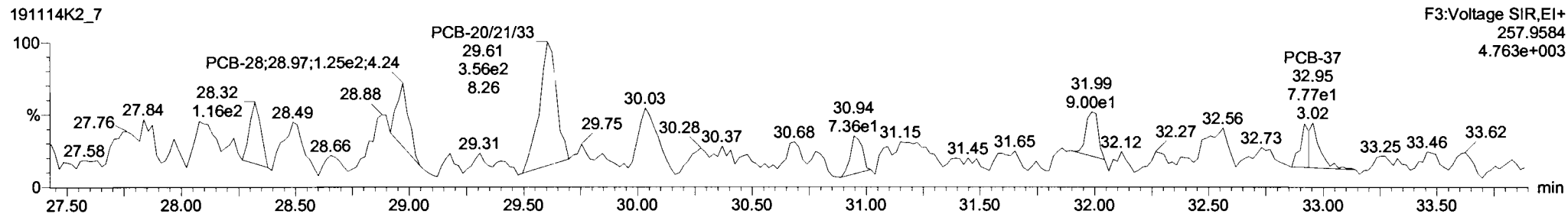
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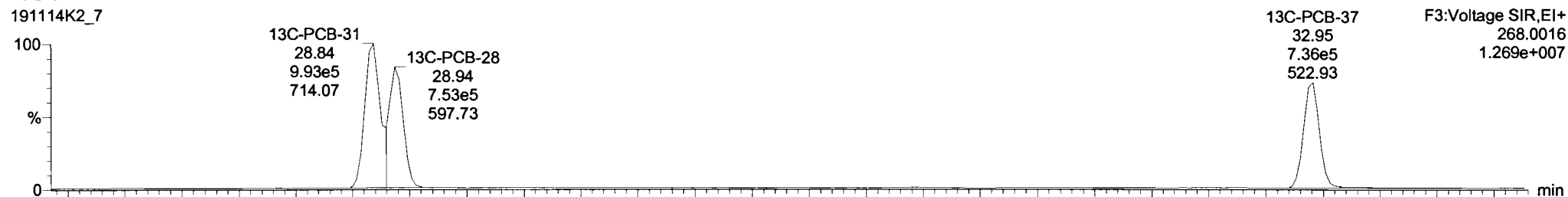
PCB-34



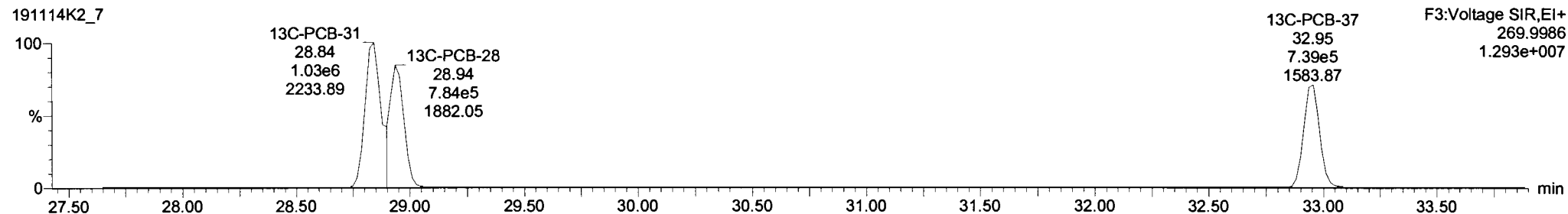
191114K2\_7



13C-PCB-28

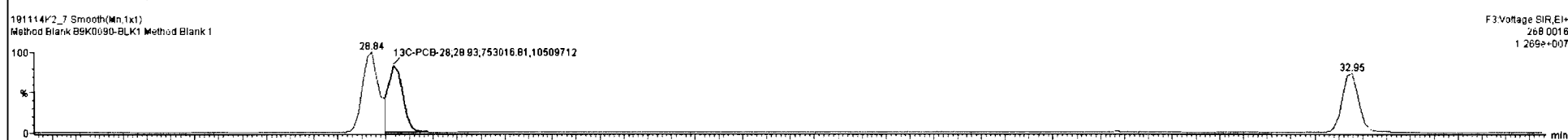
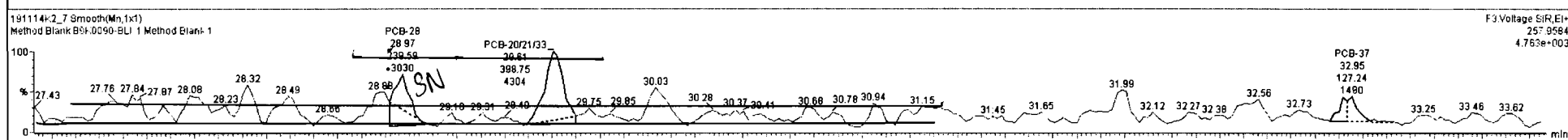
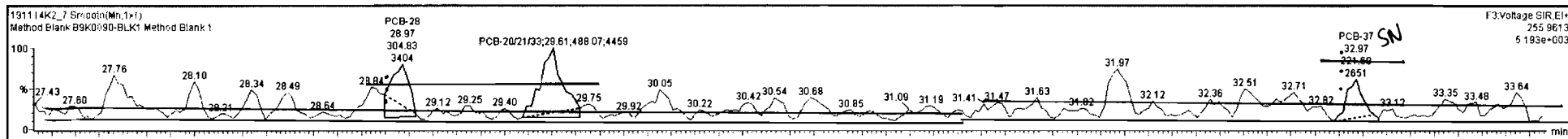


191114K2\_7



#	Name	Resp	RA	n/y	R/R	wtAnd	Prod RT	RT	Prod.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
227	3rd Function Tri-CBs				1.0358	1.000	28.00		0.000		NO	0.0000		30.4	18.48
228	Total Tetra-PCBs				0.9661	1.000	0.00		0.000		NO	0.349		68.7	34.97
229	3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	0.0000		117	3.518

#	Name	Prod RT	RT	w1 Resp	w2 Resp	1 <sup>st</sup> Ratio (Prod)	RA	n/y	EMPC	Conc.
1	24 PCB-28	28.95	28.97	3.048e2	2.396e2	1.040	1.27	YES	5.7520	0.00000
2	25 PCB-20/21/33	29.80	29.81	4.881e2	3.986e2	1.040	1.22	YES	10.550	0.00000
3	31 PCB-37	32.99	32.97	2.217e2	1.272e2	1.040	1.74	YES	3.1829	0.00000

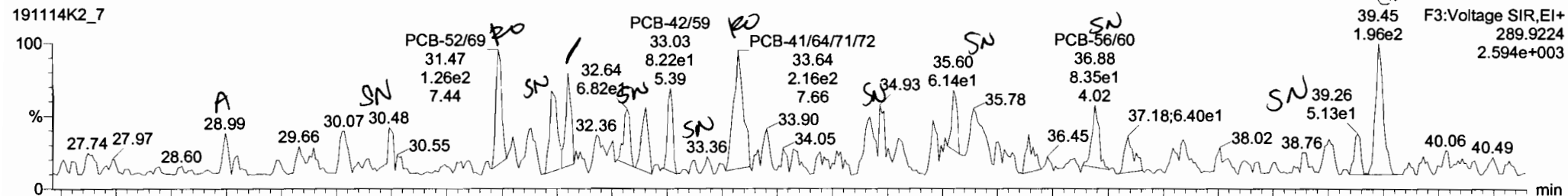


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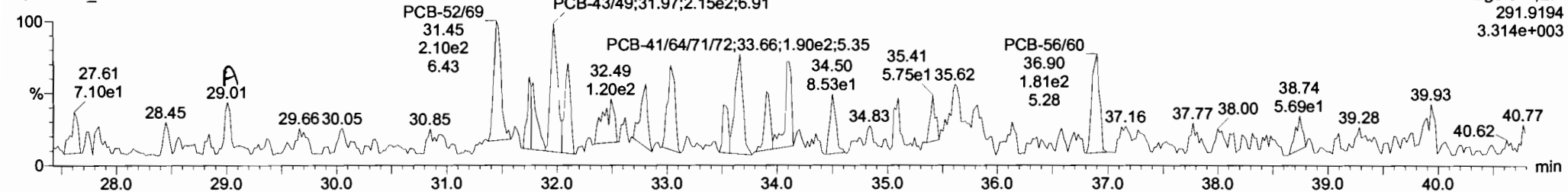
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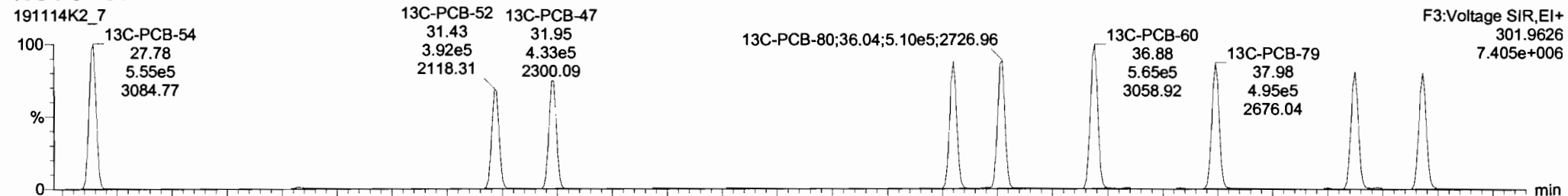
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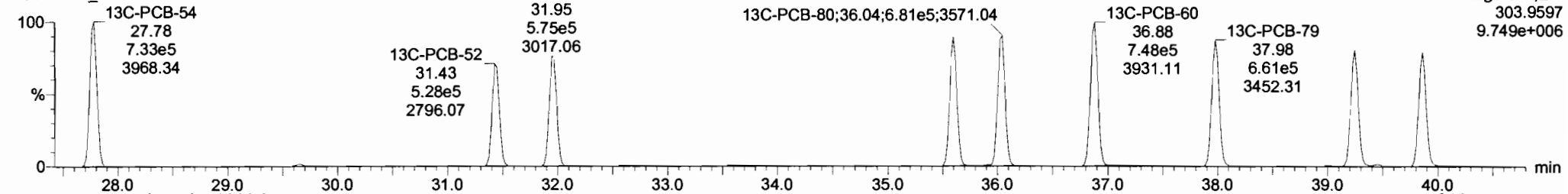
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13C-PCB-54



191114K2\_7



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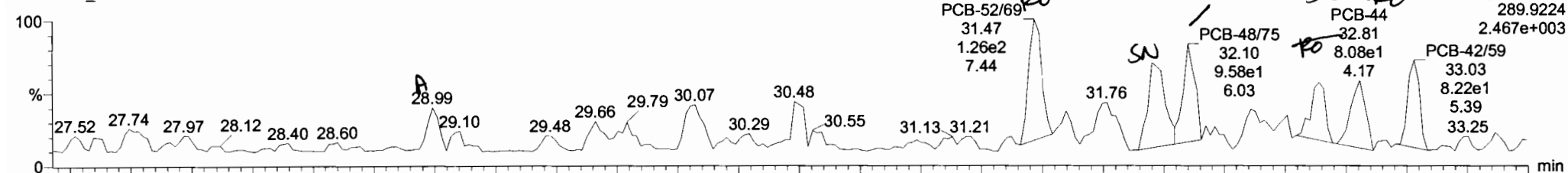
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Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

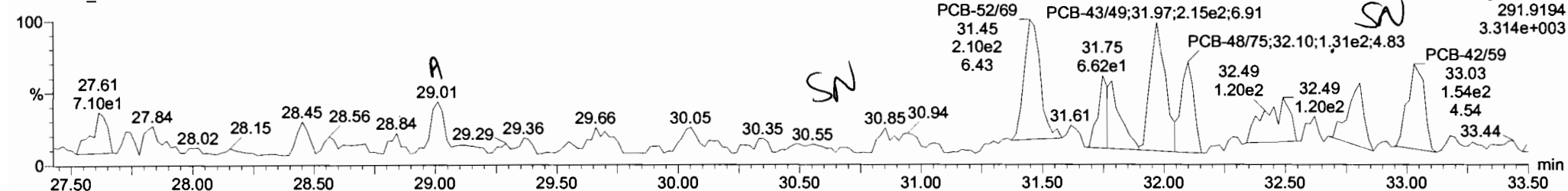
Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

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191114K2\_7

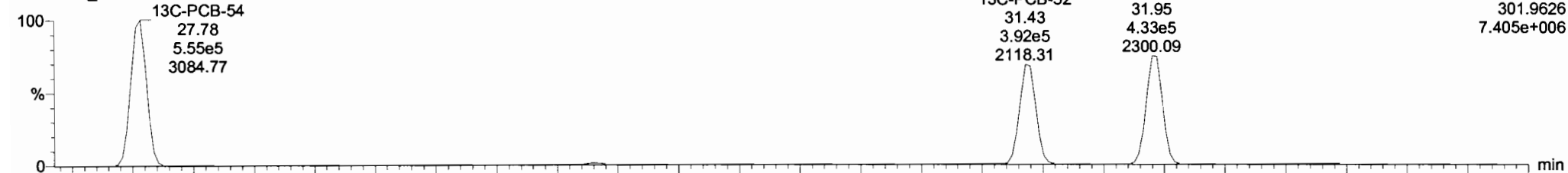


191114K2\_7

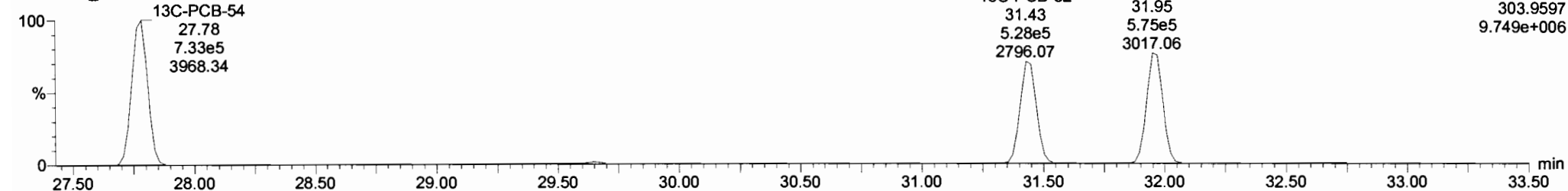


13C-PCB-52

191114K2\_7



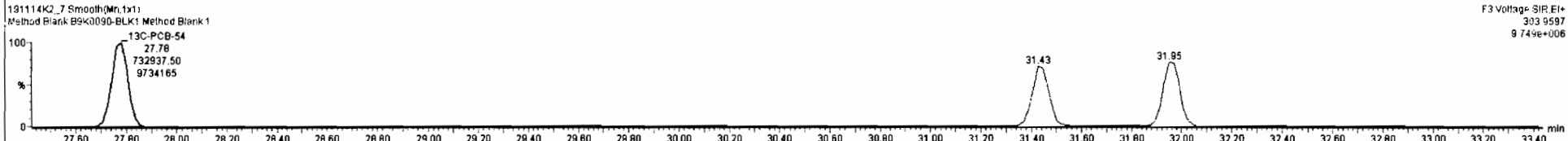
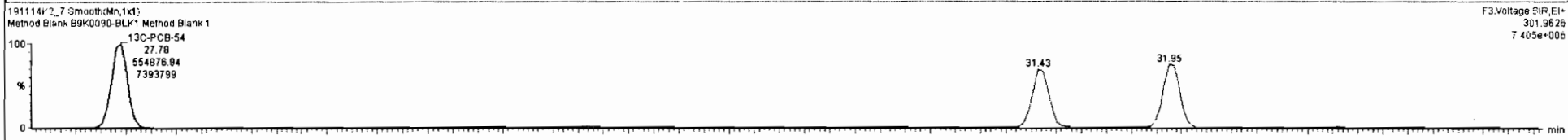
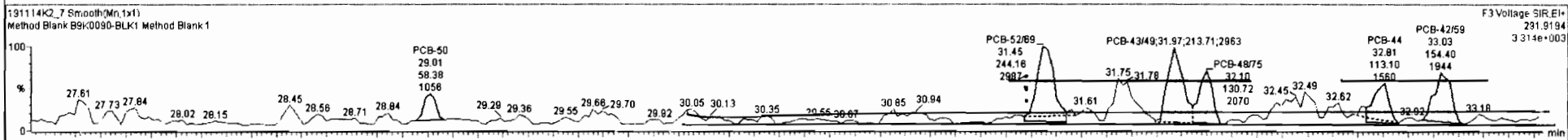
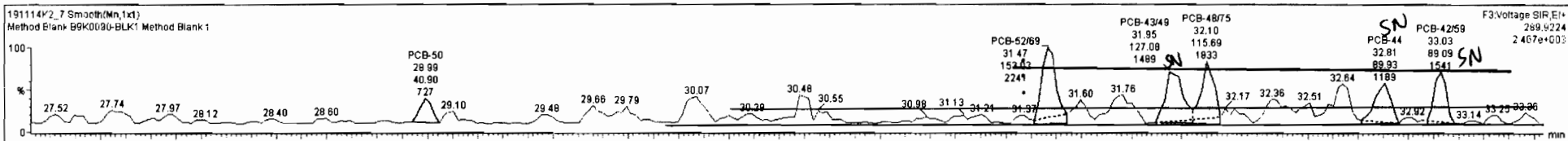
191114K2\_7





#	Name	Resp	RA	nly	R/R	wtAve	Pred.RT	RT	Pred.R	R/R	R/R Fail	Conc.	%Rec	DL	EMPC
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	0.0000		30.4	10.55
228	228 Total Tri-PCBs				1.0563	1.000	0.00		0.000		NO	12.04		88.7	36.87
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	0.0000		117	3.518

#	Name	Pred.RT	RT	wt Resp	nt2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	33 PCB-50	29.04	28.99	4.050e1	5.838e1	0.770	0.70	NO	1.9738	1.9738
2	38 PCB-52/69	31.47	31.47	1.530e2	2.442e2	0.770	0.83	YES	7.0100	0.00000
3	40 PCB-43/49	31.76	31.95	1.271e2	2.137e2	0.770	0.59	YES	6.7616	0.00000
4	42 PCB-48/75	32.08	32.10	1.157e2	1.307e2	0.770	0.89	NO	4.7724	4.7724
5	45 PCB-44	32.80	32.81	8.983e1	1.131e2	0.770	0.80	NO	5.2938	5.2938
6	46 PCB-42/59	33.02	33.03	6.909e1	1.544e2	0.770	0.58	YES	4.2322	0.00000



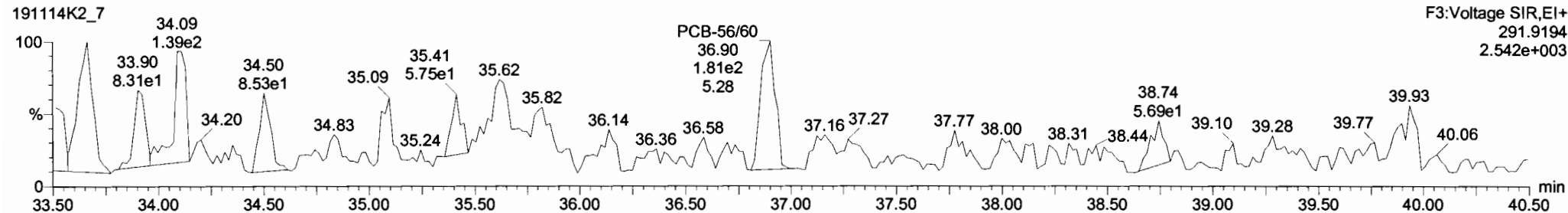
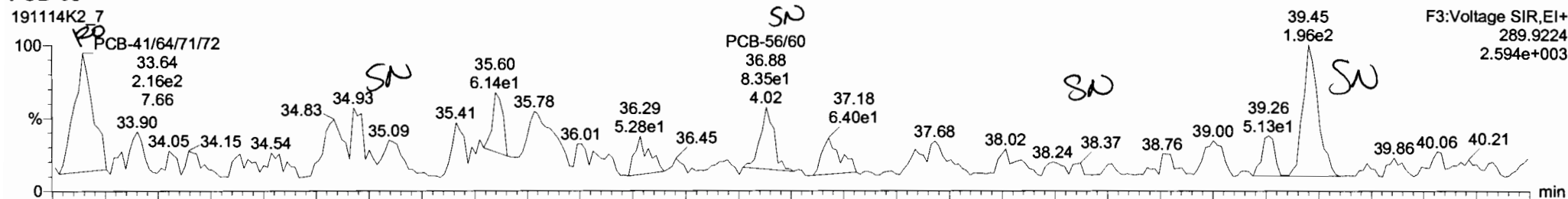
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Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time

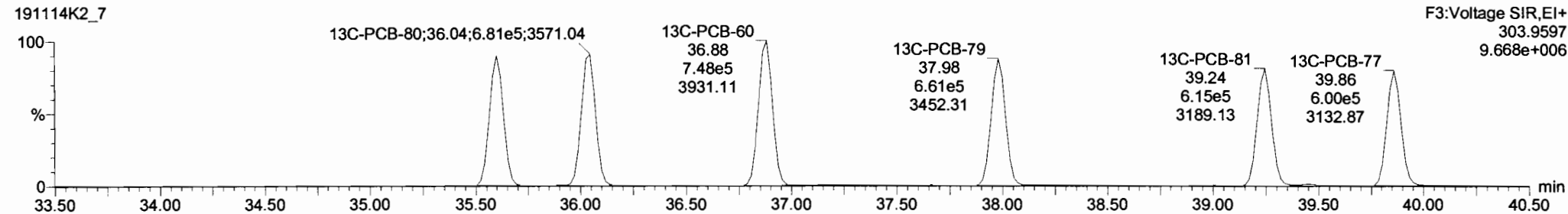
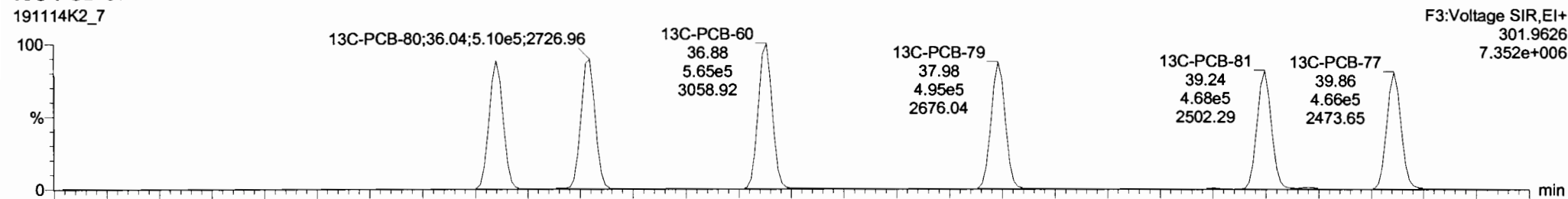
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

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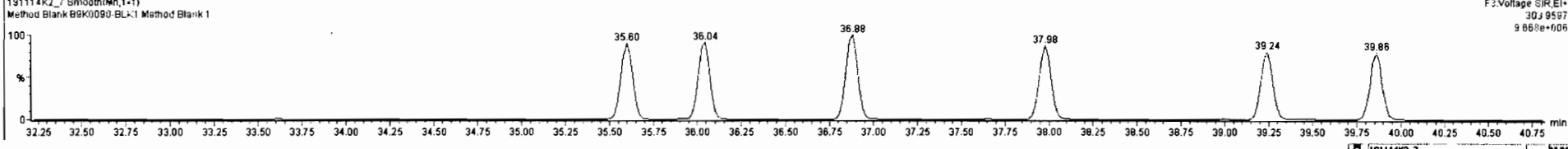
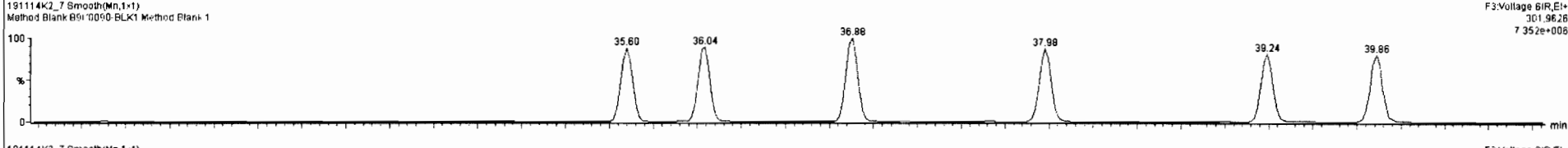
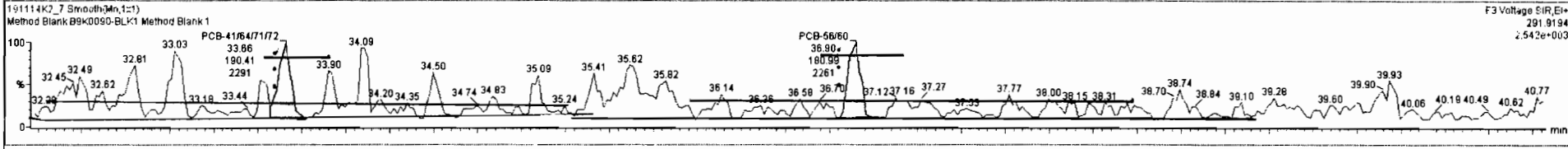
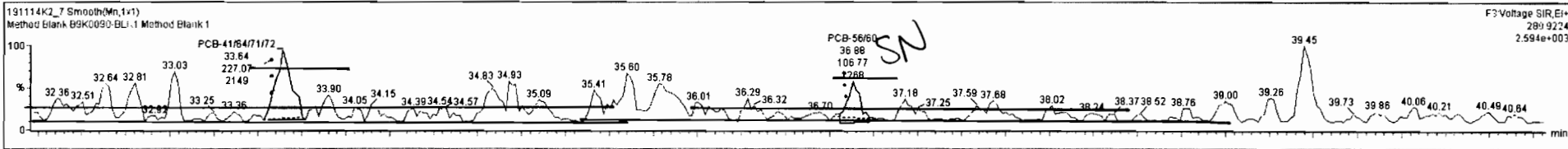


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#	Name	Resp	RA	nly	RRF	wtAve	Prod.RT	RT	Prod.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
227	3rd Function Tri-PCBs				1.0583	1.000	0.00		0.000		NO	0.0000		30.4	10.55
228	Total Tetra-PCBs				0.9688	1.000	0.00		0.000		NO	0.0000		117.7	2.438
229	3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	0.0000			

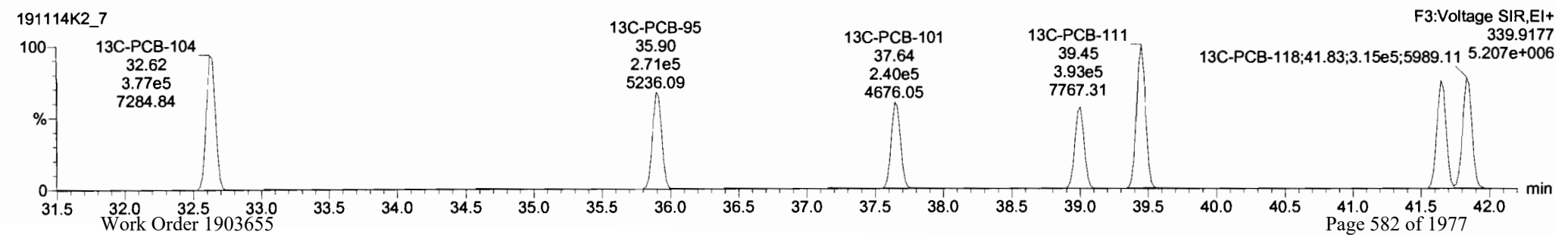
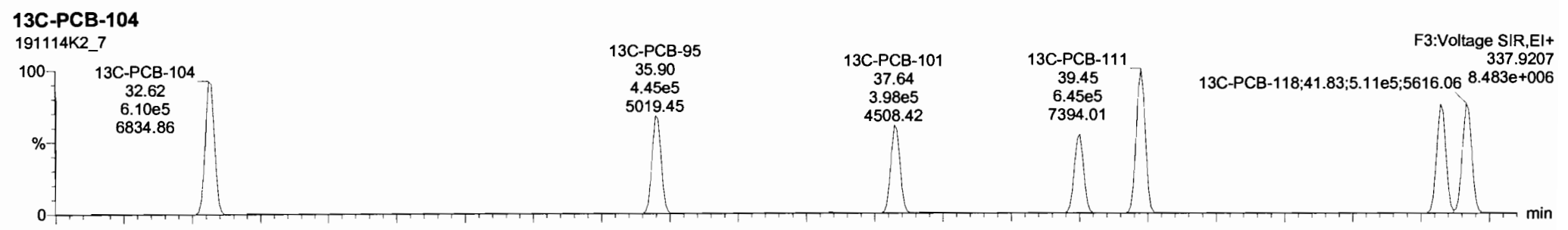
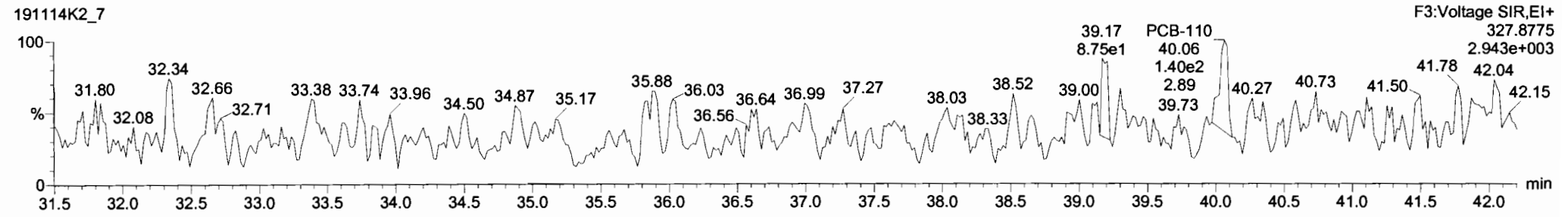
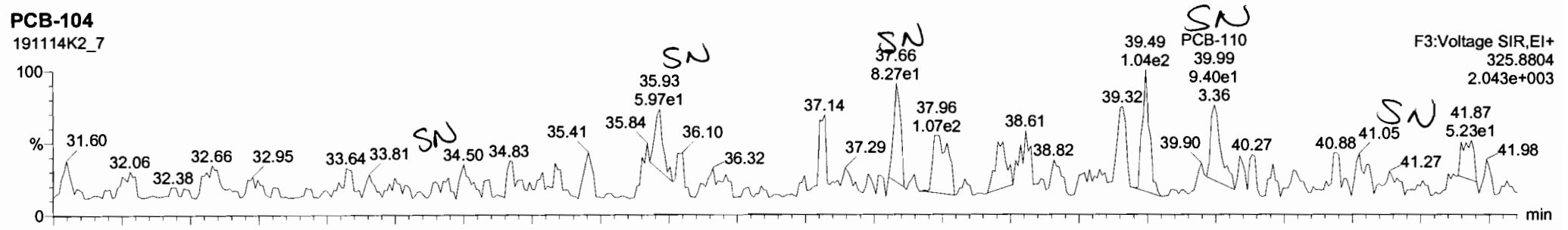
#	Name	Prod.RT	RT	m1 Resp	m2 Resp	1* Ratio (Prod)	RA	nly	EMPC	Conc.
1	33 PCB-50	29.04	29.99	4.090e1	5.836e1	0.770	0.70	NO	1.9736	1.9736
2	36 PCB-5269	31.47	31.47	1.530e2	2.442e2	0.770	0.63	YES	7.0100	0.00000
3	42 PCB-4875	32.08	32.10	1.157e2	1.307e2	0.770	0.89	NO	4.7724	4.7724
4	47 PCB-4164/1/2	33.64	33.64	2.271e2	1.904e2	0.770	1.19	YES	6.1811	0.00000
5	59 PCB-5660	36.88	36.88	1.068e2	1.810e2	0.770	0.59	YES	4.4119	0.00000



Dataset: Untitled

Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank



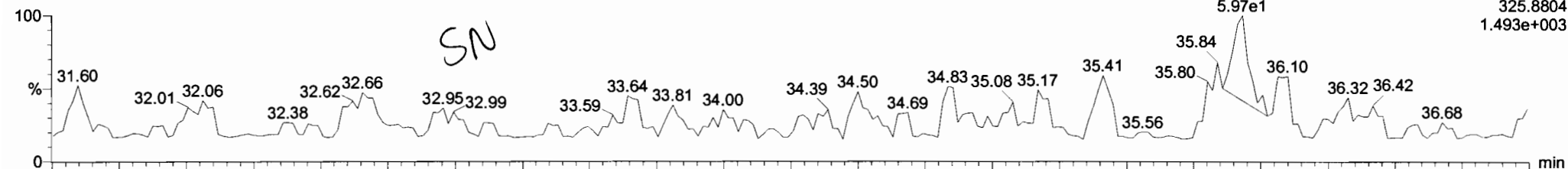
Dataset: Untitled

Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

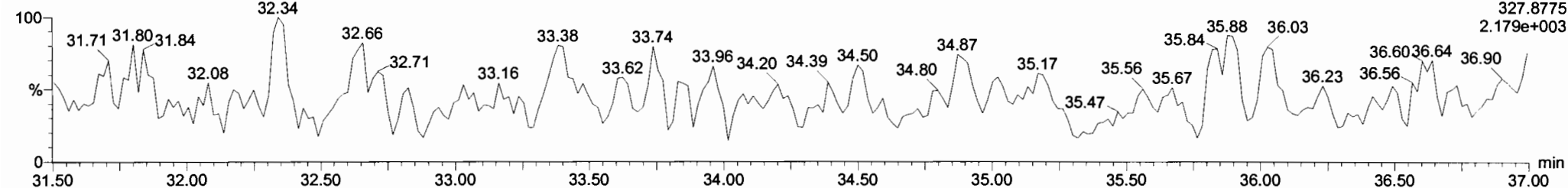
Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

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191114K2\_7

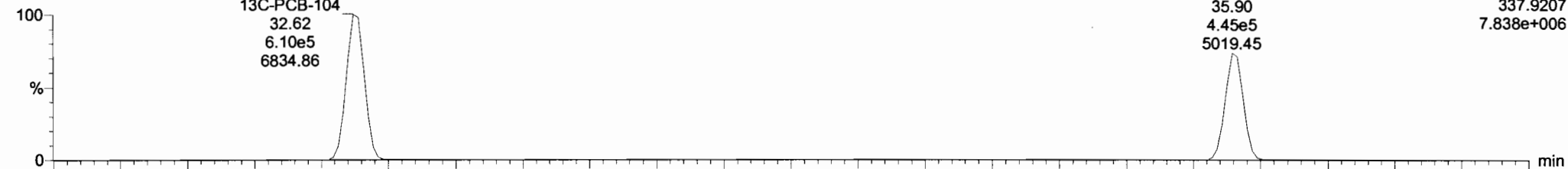


191114K2\_7

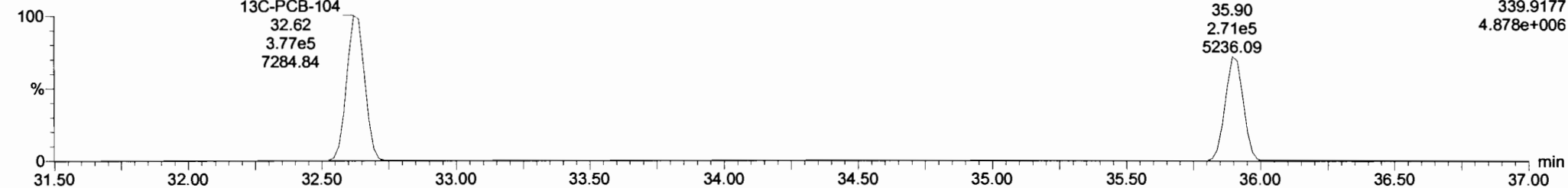


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191114K2\_7



191114K2\_7



Vista Analytical Laboratory VG-11

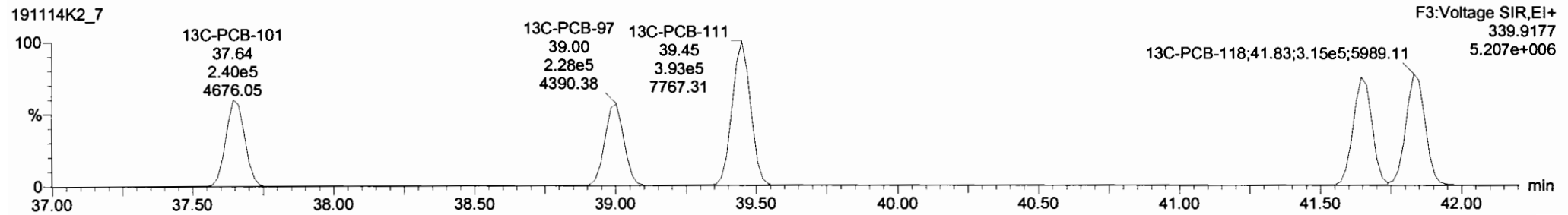
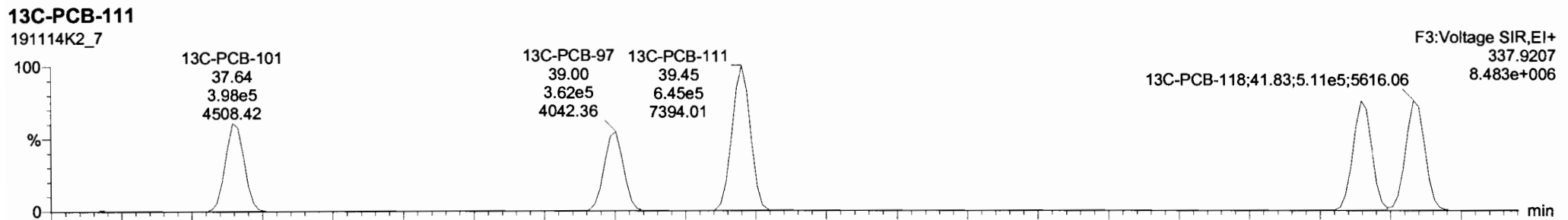
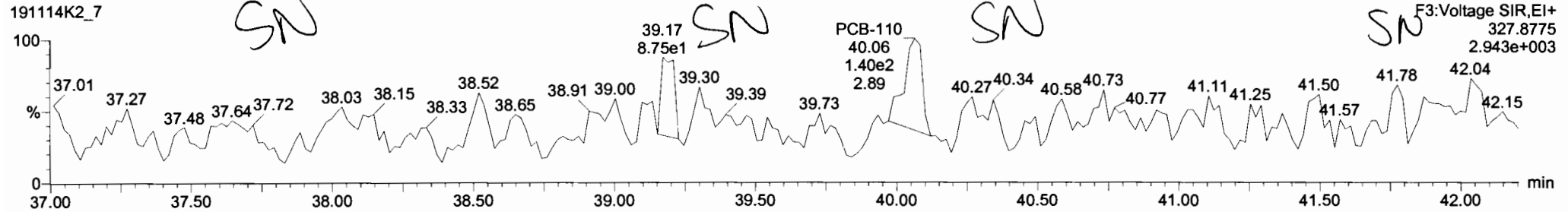
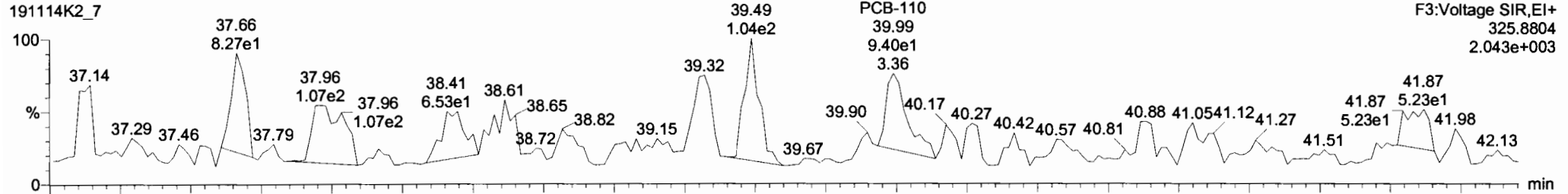
Dataset: Untitled

Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time

Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

PCB-119



Dataset: Untitled

Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time

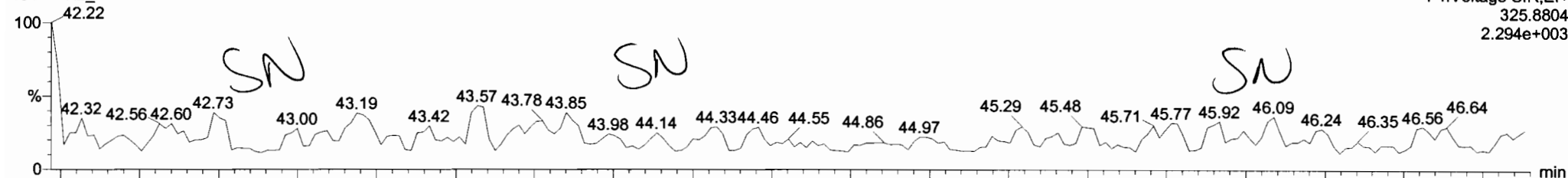
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

**PCB-114**

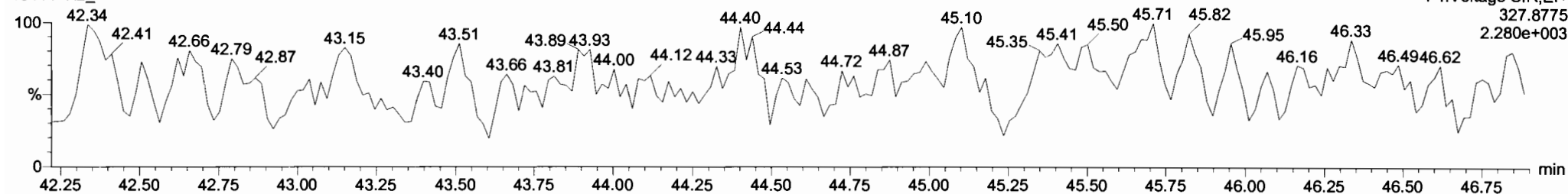
191114K2\_7

F4:Voltage SIR,EI+  
325.8804  
2.294e+003



191114K2\_7

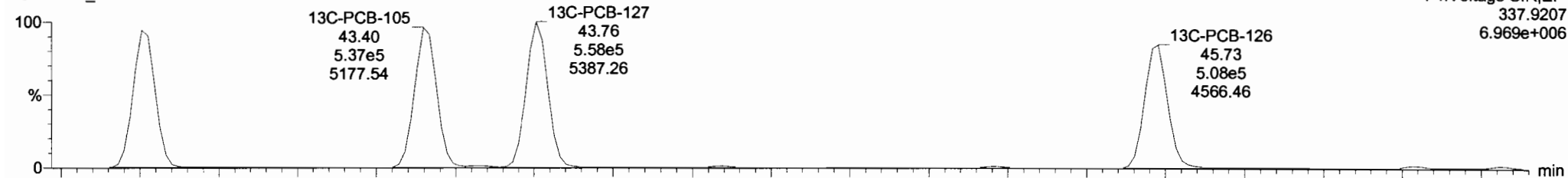
F4:Voltage SIR,EI+  
327.8775  
2.280e+003



**13C-PCB-114**

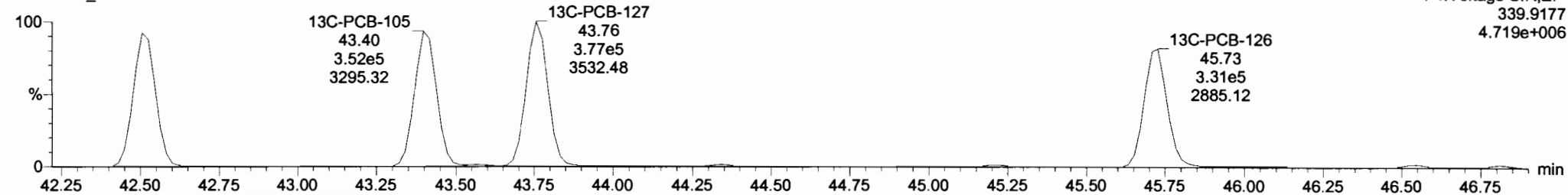
191114K2\_7

F4:Voltage SIR,EI+  
337.9207  
6.969e+006



191114K2\_7

F4:Voltage SIR,EI+  
339.9177  
4.719e+006



Dataset: Untitled

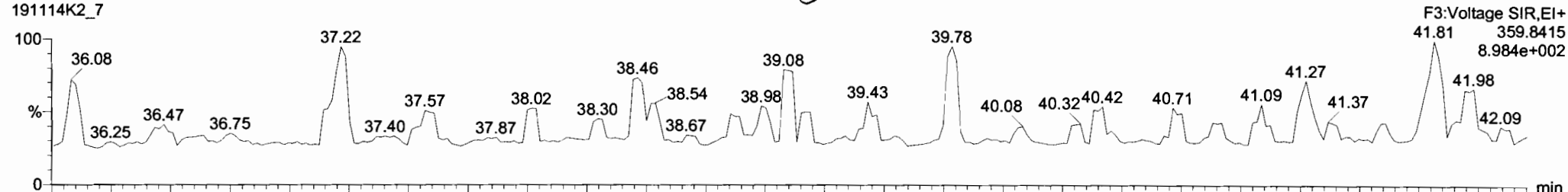
Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

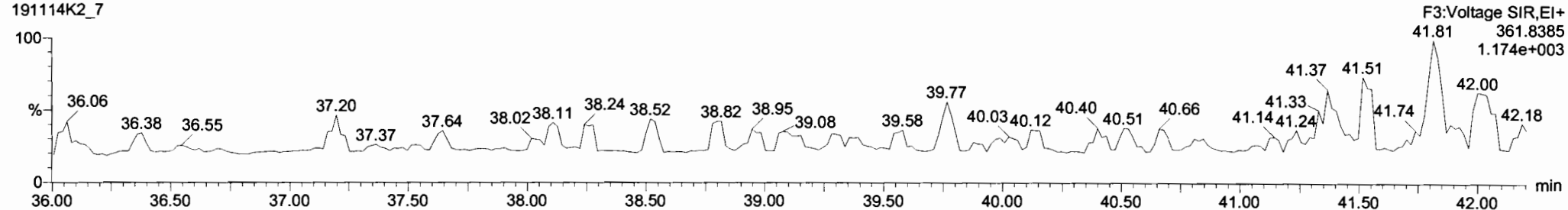
SN

PCB-155

191114K2\_7

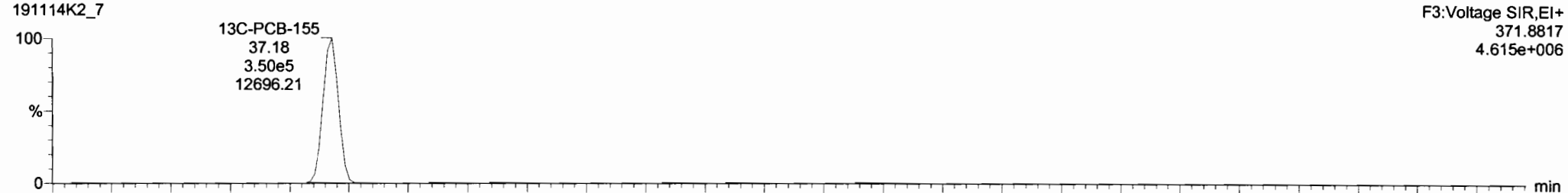


191114K2\_7

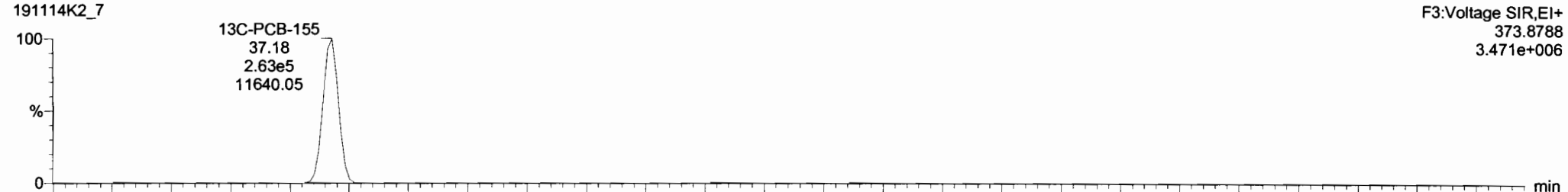


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191114K2\_7



191114K2\_7



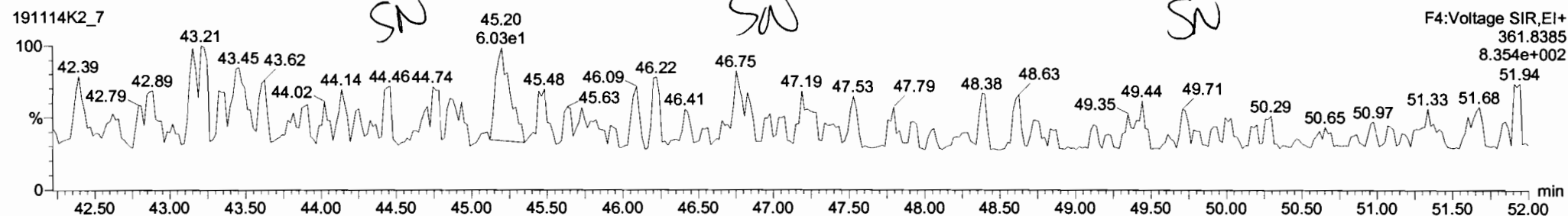
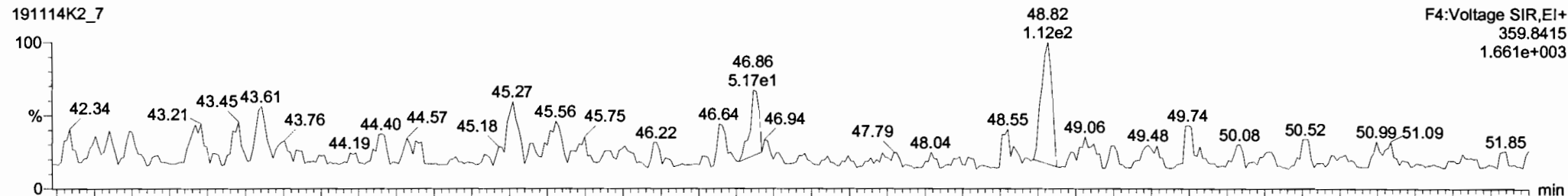


Dataset: Untitled

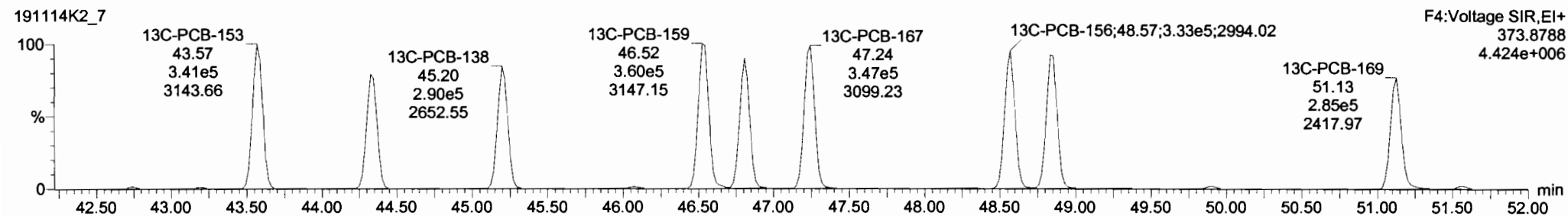
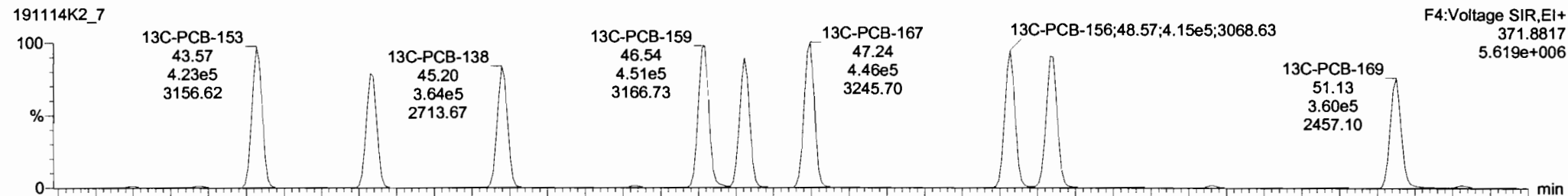
Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

PCB-134/143



13C-PCB-153



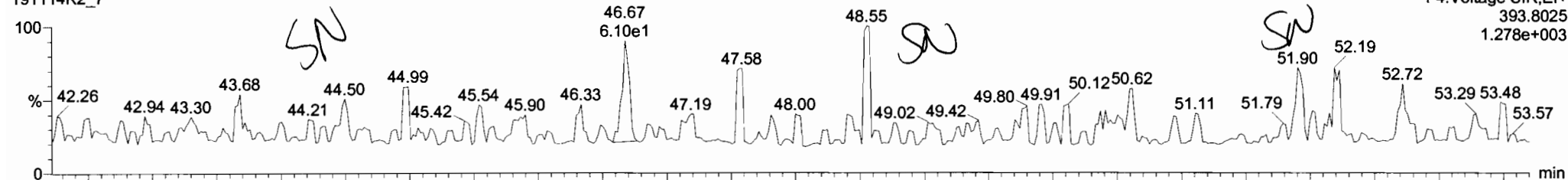
Dataset: Untitled

Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

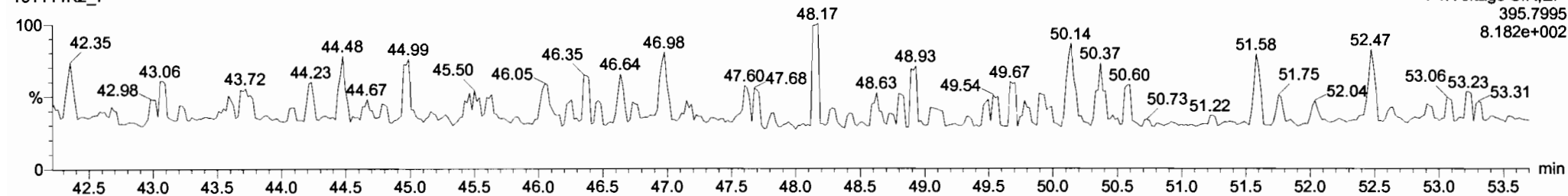
PCB-188

191114K2\_7



F4:Voltage SIR,EI+  
393.8025  
1.278e+003

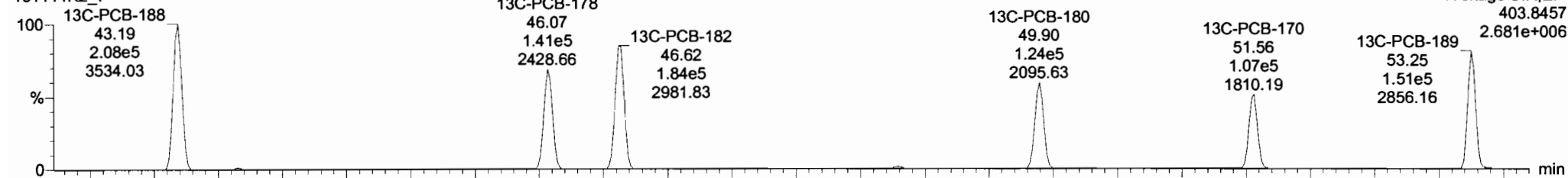
191114K2\_7



F4:Voltage SIR,EI+  
395.7995  
8.182e+002

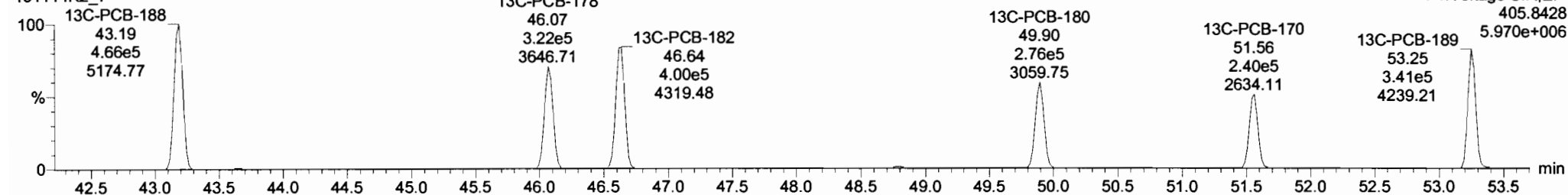
13C-PCB-188

191114K2\_7



F4:Voltage SIR,EI+  
403.8457  
2.681e+006

191114K2\_7



F4:Voltage SIR,EI+  
405.8428  
5.970e+006

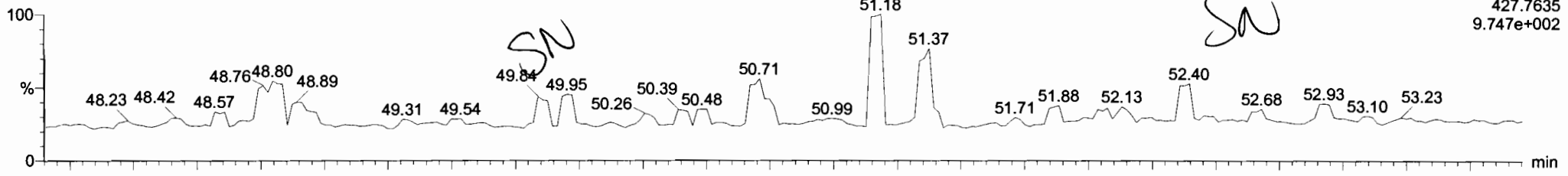
Dataset: Untitled

Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

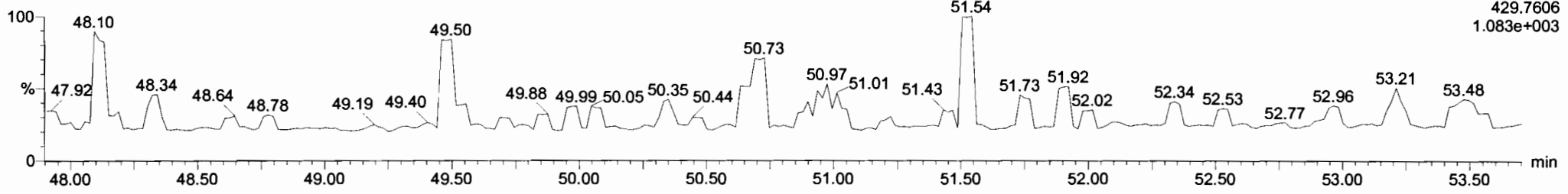
Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

PCB-202

191114K2\_7

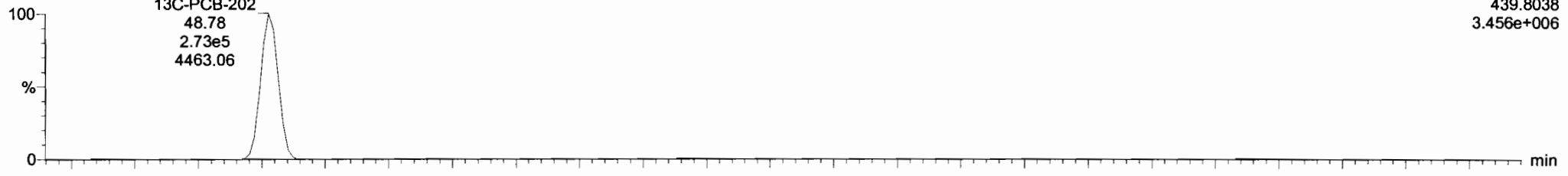


191114K2\_7

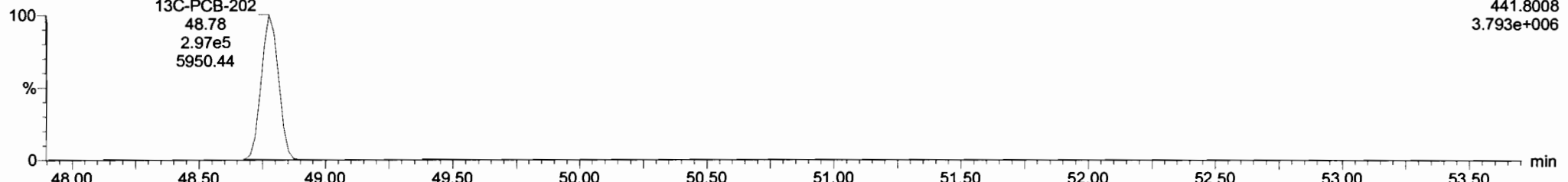


13C-PCB-202

191114K2\_7



191114K2\_7

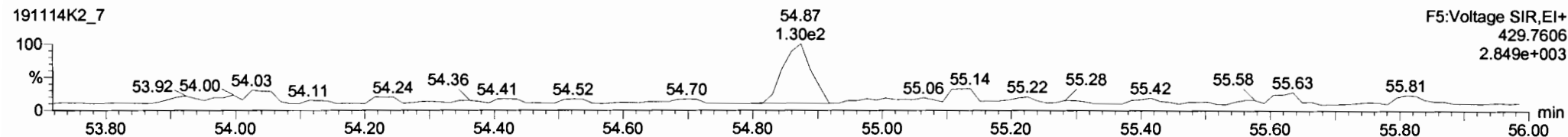
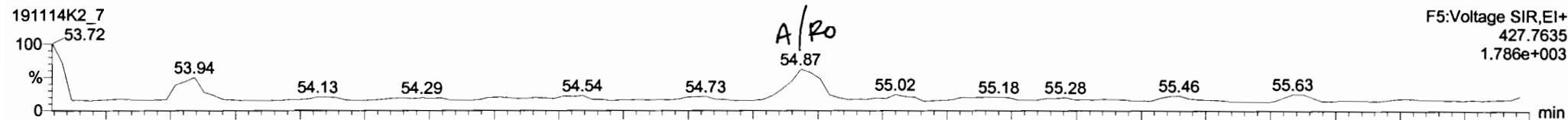


Dataset: Untitled

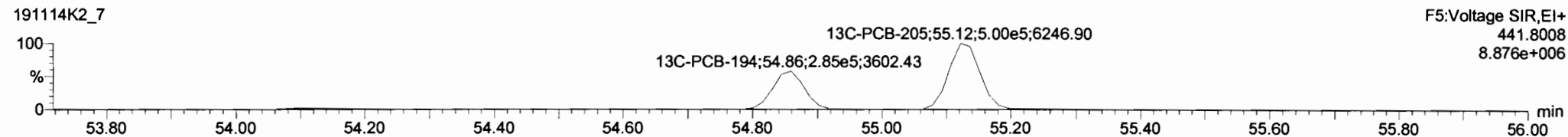
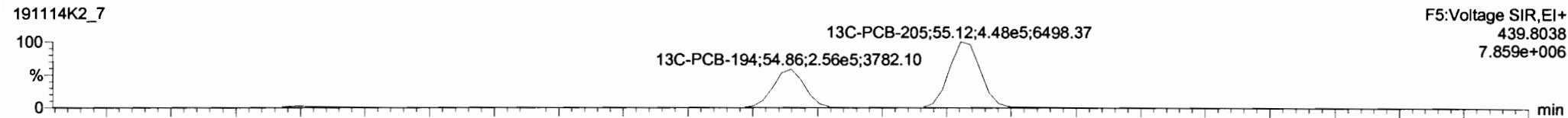
Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

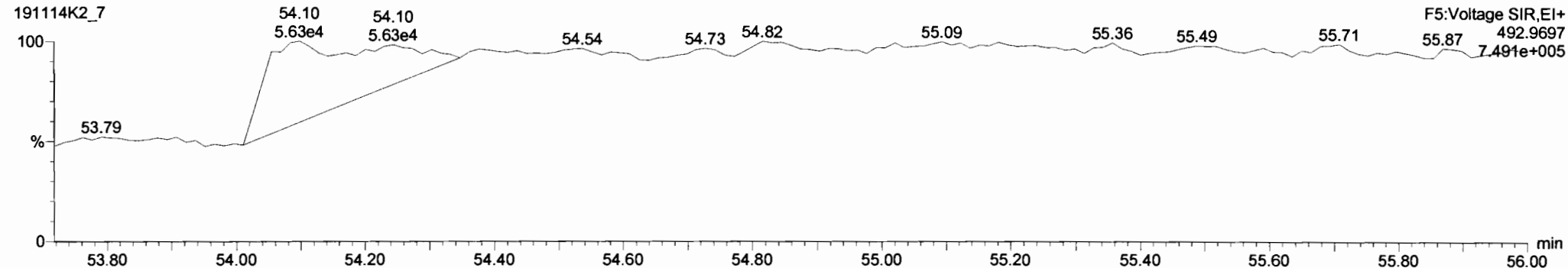
**PCB-195**

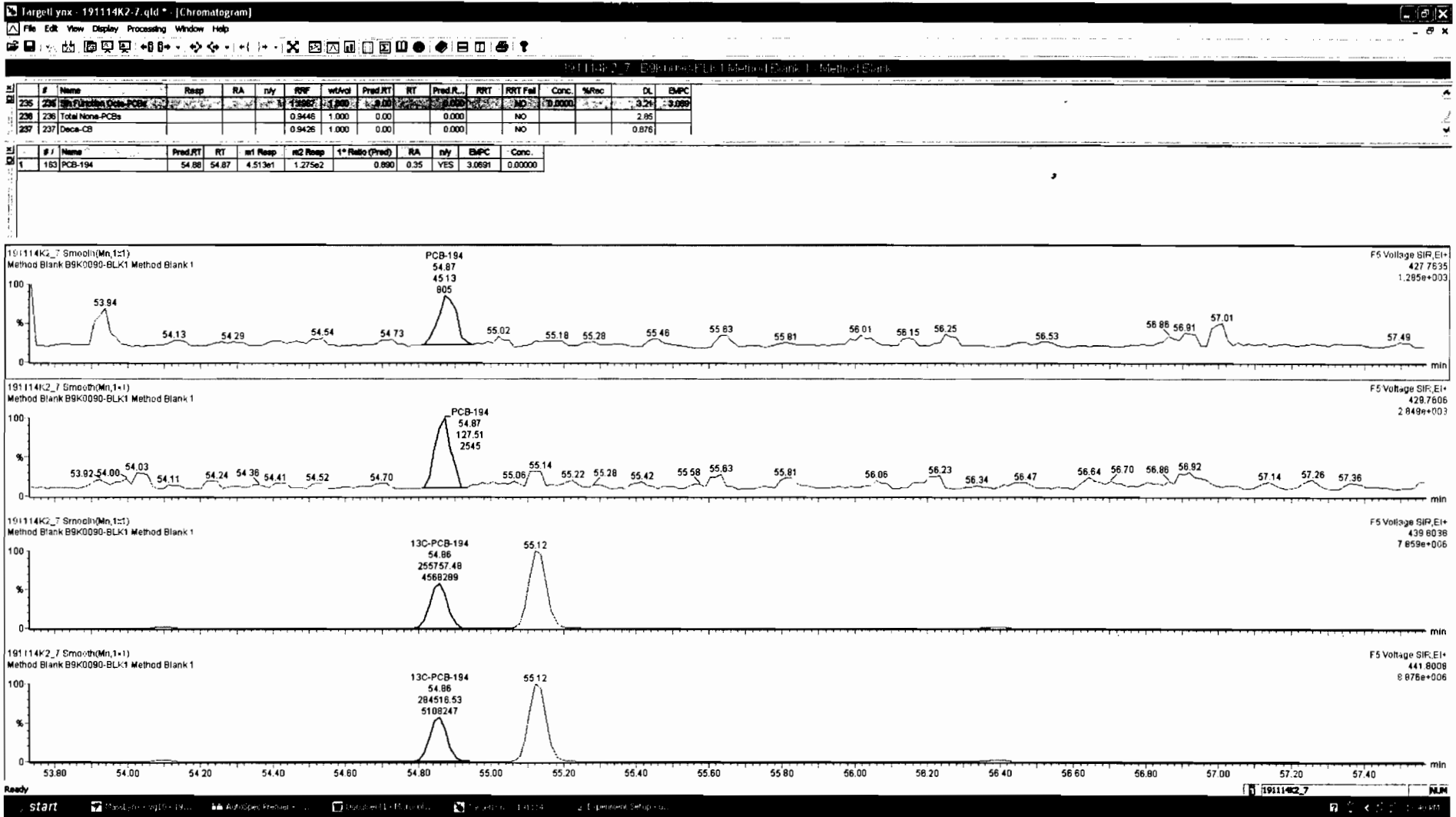


**13C-PCB-194**



**PFK5**



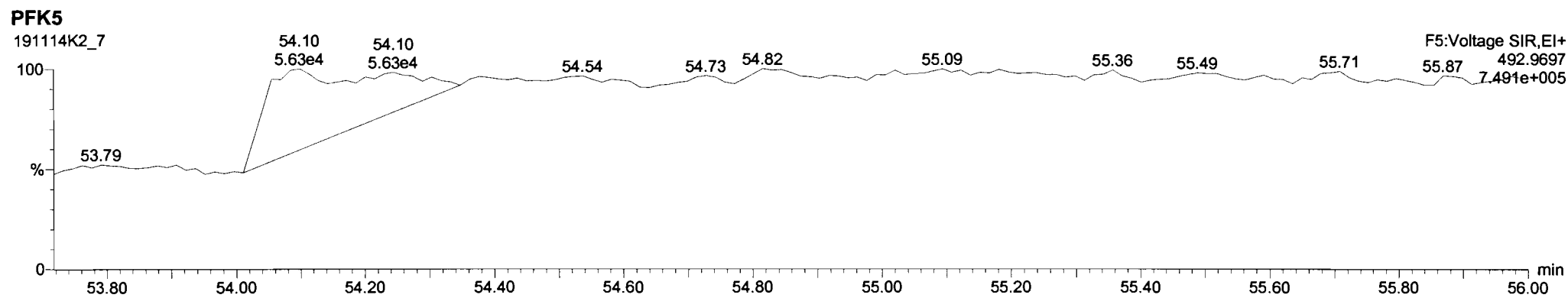
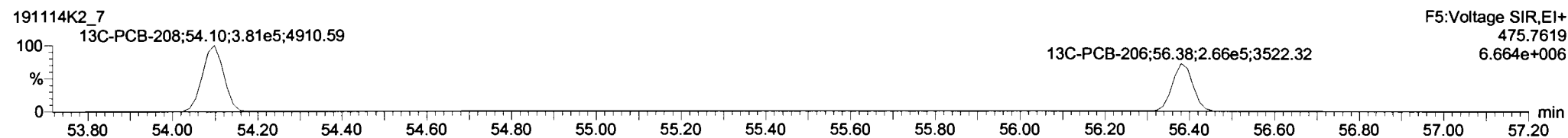
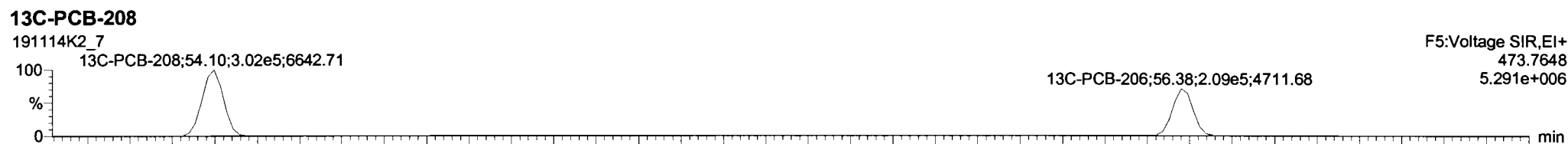
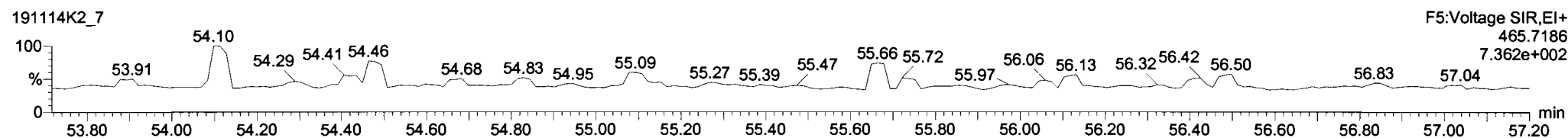
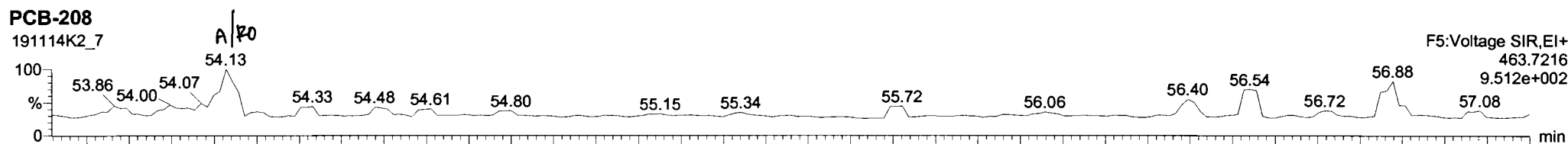


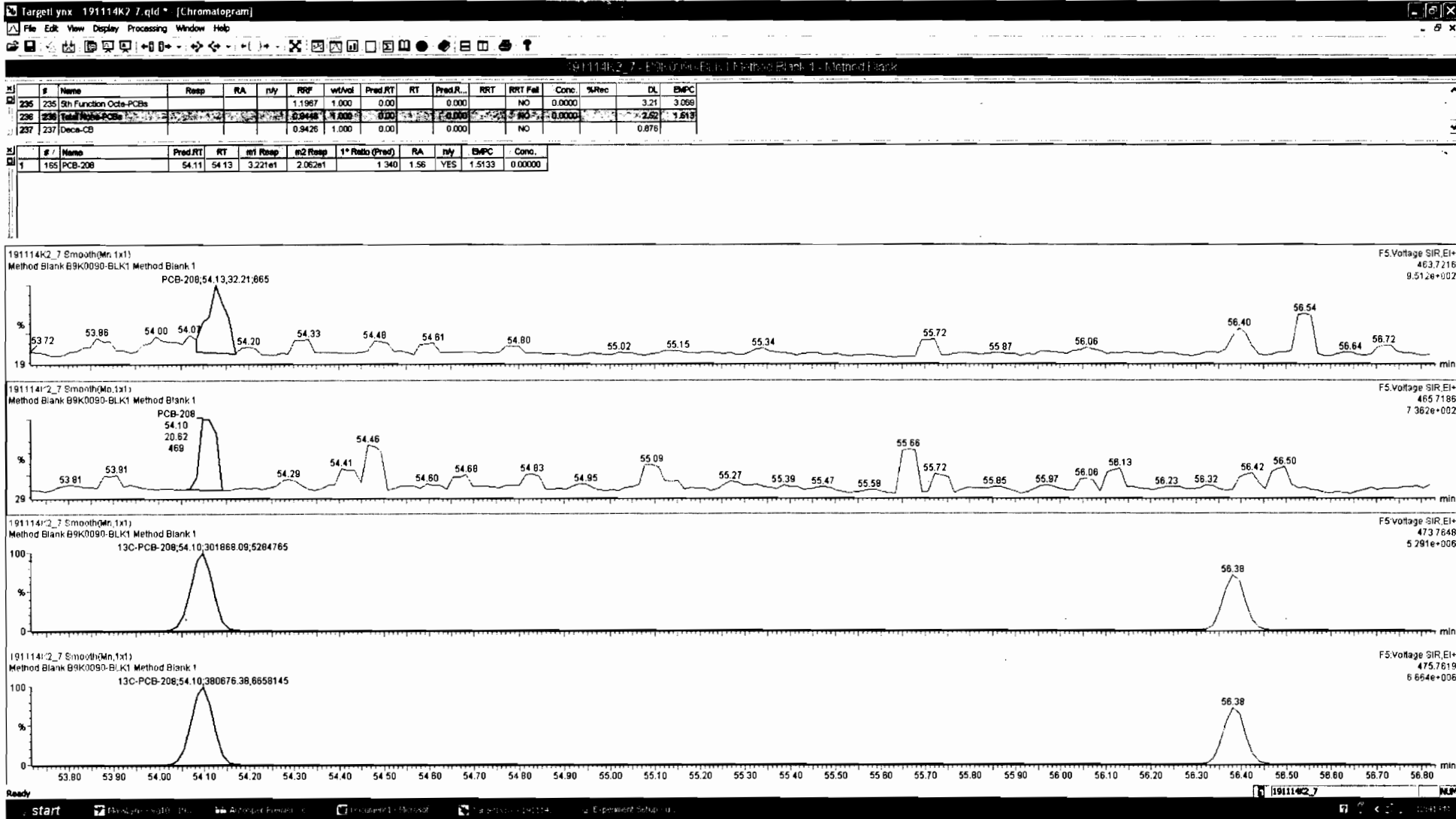
Dataset: Untitled

Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time

Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank





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Dataset: Untitled

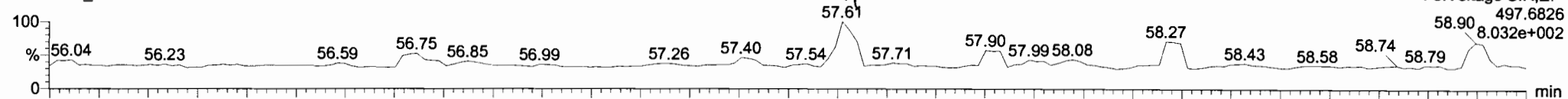
Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time

Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

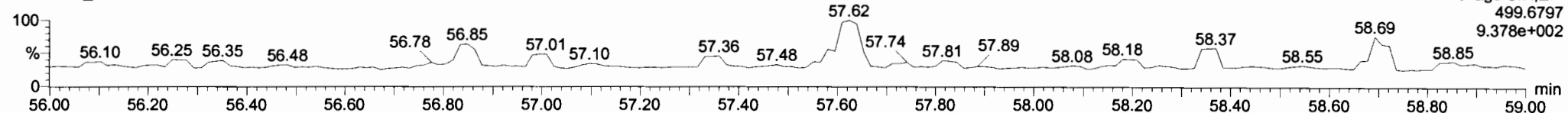
Name: 191114K2\_7, Date: 14-Nov-2019, Time: 22:15:08, ID: B9K0090-BLK1 Method Blank 1, Description: Method Blank

PCB-209

191114K2\_7

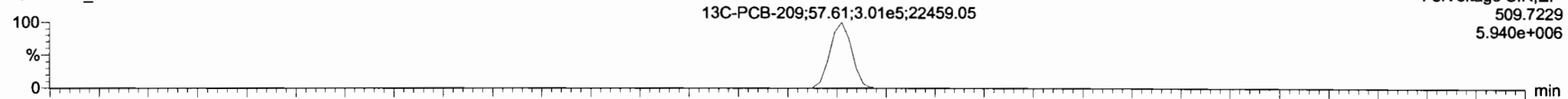


191114K2\_7

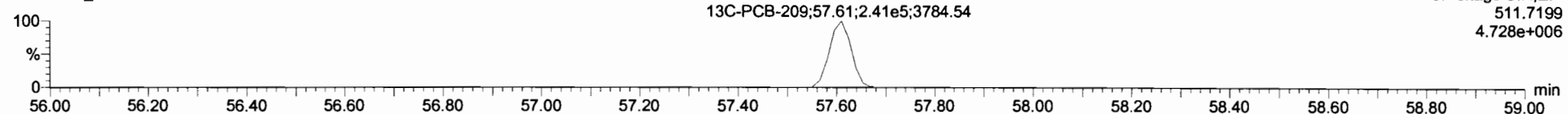


13C-PCB-209

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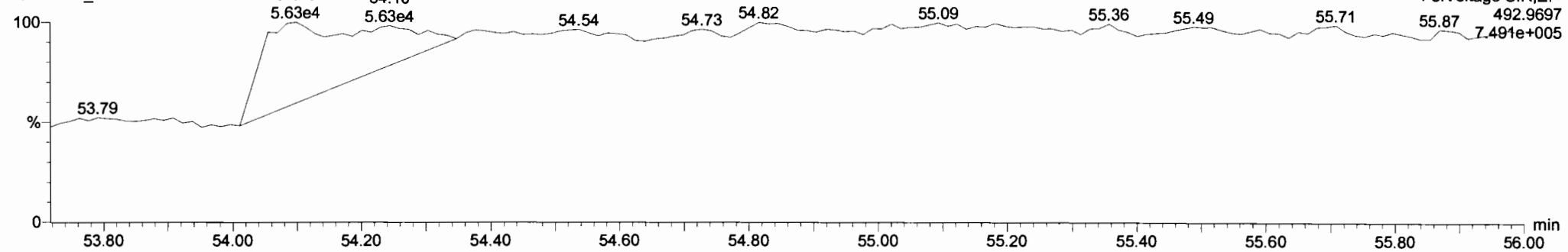


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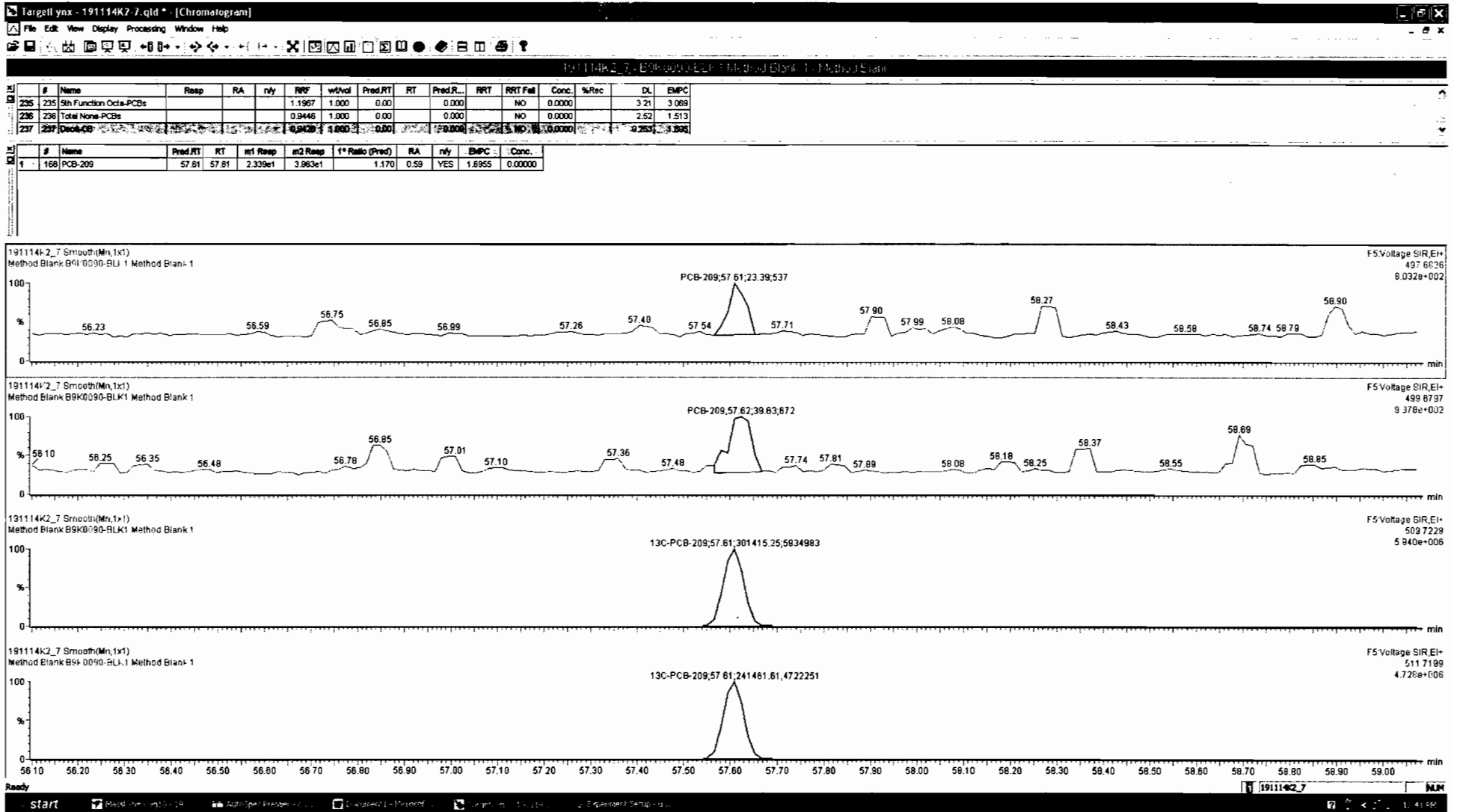


PFK5

191114K2\_7







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EL 11/15/19

CT 11/15/19

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-14-19.mdb 14 Nov 2019 15:03:40

Calibration: U:\VG11.PRO\CurveDB\cb1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

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1	PCB-1	1000873.0...	3.003	NO	1.02	1.000	15.67	15.68	1.00	1.00	NO	12120	1.72	12120
2	PCB-2	1105493.3...	3.147	NO	1.01	1.000	18.10	18.10	0.99	0.99	NO	12660	1.75	12660
3	PCB-3	1116622.281	3.106	NO	1.01	1.000	18.33	18.34	1.00	1.00	NO	12820	1.76	12820
4	PCB-4/10	1621132.2...	1.582	NO	1.28	1.000	19.76	19.76	1.00	1.00	NO	22680	8.54	22680
5	PCB-7/9	1904979.9...	1.584	NO	0.976	1.000	21.57	21.55	1.00	1.00	NO	22140	7.35	22140
6	PCB-6	1041494.6...	1.622	NO	1.02	1.000	22.22	22.23	1.03	1.03	NO	11620	7.06	11620
7	PCB-5/8	2073409.1...	1.559	NO	1.01	1.000	22.63	22.63	1.05	1.05	NO	23270	7.10	23270
8	PCB-14	1123300.5...	1.577	NO	1.03	1.000	23.78	23.78	0.95	0.95	NO	11090	6.40	11090
9	PCB-11	1214841.1...	1.586	NO	1.10	1.000	25.00	25.01	1.00	1.00	NO	11300	6.03	11300
10	PCB-12/13	2270910.7...	1.568	NO	1.04	1.000	25.44	25.44	1.02	1.02	NO	22330	6.37	22330
11	PCB-15	1135442.6...	1.594	NO	1.03	1.000	25.74	25.73	1.03	1.03	NO	11260	6.43	11260
12	PCB-19	546222.187	0.951	NO	0.934	1.000	23.96	23.95	1.00	1.00	NO	11940	4.22	11940
13	PCB-30	893991.219	0.962	NO	1.48	1.000	24.89	24.87	1.04	1.04	NO	12330	2.67	12330
14	PCB-18	580917.688	0.989	NO	0.693	1.000	25.63	25.65	0.95	0.95	NO	12140	4.21	12140
15	PCB-17	542742.688	0.982	NO	0.667	1.000	25.81	25.83	0.96	0.96	NO	11790	4.38	11790
16	PCB-24/27	1513236.4...	0.959	NO	0.915	1.000	26.43	26.42	0.98	0.98	NO	23960	3.19	23960
17	PCB-16/32	1284614.6...	0.961	NO	0.792	1.000	26.96	26.95	1.00	1.00	NO	23480	3.68	23480
18	PCB-34	830911.969	1.055	NO	0.987	1.000	27.76	27.78	0.96	0.96	NO	11020	4.81	11020
19	PCB-23	853916.500	1.079	NO	0.974	1.000	27.86	27.88	0.96	0.96	NO	11480	4.88	11480
20	PCB-29	817379.437	1.064	NO	0.953	1.000	28.10	28.12	0.97	0.97	NO	11220	4.98	11220
21	PCB-26	852051.906	1.071	NO	1.00	1.000	28.35	28.34	0.98	0.98	NO	11140	4.74	11140
22	PCB-25	876842.906	1.060	NO	0.978	1.000	28.49	28.51	0.98	0.98	NO	11740	4.86	11740
23	PCB-31	1050673.3...	1.050	NO	1.12	1.000	28.88	28.88	1.00	1.00	NO	12250	4.23	12250
24	PCB-28	958167.188	1.051	NO	1.11	1.000	28.97	28.97	1.00	1.00	NO	11340	4.29	11340
25	PCB-20/21/33	2830874.3...	1.078	NO	1.00	1.000	29.62	29.60	1.02	1.02	NO	36940	4.73	36940
26	PCB-22	971720.219	1.056	NO	1.03	1.000	30.07	30.07	1.04	1.04	NO	12320	4.60	12320
27	PCB-36	1016863.9...	1.109	NO	1.18	1.000	30.70	30.70	0.93	0.93	NO	11520	4.68	11520
28	PCB-39	908047.594	1.052	NO	1.08	1.000	31.20	31.20	0.95	0.95	NO	11160	5.07	11160
29	PCB-38	1003279.4...	1.057	NO	1.13	1.000	32.00	31.99	0.97	0.97	NO	11850	4.88	11850
30	PCB-35	971557.407	1.058	NO	1.13	1.000	32.52	32.53	0.99	0.99	NO	11440	4.86	11440

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31	PCB-37	934692.969	1.049	NO	1.11	1.000	32.99	32.99	1.00	1.00	NO	11260	4.97	11260
32	PCB-54	689594.282	0.722	NO	0.996	1.000	27.82	27.82	1.00	1.00	NO	11580	4.42	11580
33	PCB-50	554561.719	0.714	NO	0.781	1.000	29.06	29.03	1.05	1.04	NO	11870	5.63	11870
34	PCB-53	524530.297	0.719	NO	0.955	1.000	29.70	29.70	0.94	0.94	NO	11020	5.62	11020
35	PCB-51	553927.641	0.733	NO	1.02	1.000	30.02	30.05	0.95	0.96	NO	10850	5.25	10850
36	PCB-45	459085.626	0.729	NO	0.808	1.000	30.46	30.48	0.97	0.97	NO	11400	6.65	11400
37	PCB-46	435224.203	0.735	NO	0.754	1.000	30.98	31.00	0.99	0.99	NO	11580	7.13	11580
38	PCB-52/69	1260138.1...	0.725	NO	1.09	1.000	31.48	31.49	1.00	1.00	NO	23150	4.92	23150
39	PCB-73	751010.031	0.726	NO	1.29	1.000	31.61	31.61	1.01	1.01	NO	11680	4.16	11680
40	PCB-43/49	1060743.8...	0.726	NO	0.940	1.000	31.77	31.78	1.01	1.01	NO	22630	5.71	22630
41	PCB-47	515337.328	0.720	NO	0.869	1.000	31.99	32.01	1.00	1.00	NO	11360	5.97	11360
42	PCB-48/75	1242874.3...	0.739	NO	1.02	1.000	32.10	32.12	1.00	1.00	NO	23230	5.07	23230
43	PCB-65	655740.094	0.725	NO	1.11	1.000	32.37	32.38	1.01	1.01	NO	11330	4.68	11330
44	PCB-62	649346.281	0.740	NO	1.07	1.000	32.48	32.49	1.02	1.02	NO	11670	4.87	11670
45	PCB-44	426887.985	0.723	NO	0.761	1.000	32.82	32.83	1.03	1.03	NO	10740	6.82	10740
46	PCB-42/59	1123116.563	0.718	NO	0.960	1.000	33.04	33.05	1.03	1.03	NO	22400	5.40	22400
47	PCB-41/64/71/72	2458097.3...	0.727	NO	1.08	1.000	33.66	33.66	1.05	1.05	NO	43510	4.80	43510
48	PCB-68	632075.469	0.724	NO	1.11	1.000	33.92	33.92	1.06	1.06	NO	10920	4.68	10920
49	PCB-40	300399.586	0.725	NO	0.577	1.000	34.17	34.15	1.07	1.07	NO	9975	9.00	9975
50	PCB-57	681421.625	0.732	NO	1.05	1.000	34.50	34.52	0.97	0.97	NO	11040	4.33	11040
51	PCB-67	616743.922	0.732	NO	0.993	1.000	34.82	34.83	0.98	0.98	NO	10550	4.57	10550
52	PCB-58	736389.282	0.737	NO	1.11	1.000	34.95	34.97	0.98	0.98	NO	11250	4.08	11250
53	PCB-63	639937.688	0.727	NO	0.962	1.000	35.11	35.11	0.99	0.99	NO	11300	4.72	11300
54	PCB-74	722675.875	0.724	NO	1.07	1.000	35.42	35.41	0.99	0.99	NO	11520	4.26	11520
55	PCB-61/70	1343255.5...	0.726	NO	0.986	1.000	35.63	35.63	1.00	1.00	NO	23150	4.60	23150
56	PCB-76/66	1468410.4...	0.724	NO	1.07	1.000	35.79	35.84	1.00	1.01	NO	23390	4.26	23390
57	PCB-80	787240.250	0.723	NO	1.08	1.000	36.08	36.08	1.00	1.00	NO	11590	4.03	11590
58	PCB-55	783215.437	0.723	NO	1.07	1.000	36.40	36.40	1.01	1.01	NO	11700	4.09	11700
59	PCB-56/60	1389350.0...	0.719	NO	0.934	1.000	36.90	36.90	1.02	1.02	NO	23720	4.68	23720
60	PCB-79	771050.125	0.726	NO	1.04	1.000	38.02	38.02	1.05	1.05	NO	11770	4.19	11770
61	PCB-78	709838.657	0.724	NO	1.03	1.000	38.74	38.74	0.99	0.99	NO	11720	4.59	11720
62	PCB-81	644652.376	0.727	NO	0.933	1.000	39.28	39.28	1.00	1.00	NO	11770	5.08	11770
63	PCB-77	662288.969	0.720	NO	1.03	1.000	39.90	39.90	1.00	1.00	NO	11480	4.82	11480
64	PCB-104	539771.641	1.528	NO	0.995	1.000	32.66	32.67	1.00	1.00	NO	11560	3.51	11560

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65	PCB-96	504128.235	1.492	NO	0.996	1.000	33.98	33.98	1.04	1.04	NO	10780	3.50	10780
66	PCB-103	384824.922	1.514	NO	0.774	1.000	34.55	34.54	1.06	1.06	NO	10580	4.51	10580
67	PCB-100	397506.734	1.480	NO	0.778	1.000	34.93	34.91	1.07	1.07	NO	10890	4.49	10890
68	PCB-94	325488.961	1.493	NO	0.773	1.000	35.39	35.39	0.99	0.99	NO	11220	5.74	11220
69	PCB-95/98/102	1320292.5...	1.517	NO	1.01	1.000	35.86	35.88	1.00	1.00	NO	34680	4.38	34680
70	PCB-93	337269.344	1.557	NO	0.841	1.000	35.99	36.01	1.00	1.00	NO	10690	5.28	10690
71	PCB-88/91	755120.313	1.527	NO	0.890	1.000	36.34	36.34	1.01	1.01	NO	22630	4.99	22630
72	PCB-121	609745.781	1.561	NO	1.39	1.000	36.46	36.45	1.02	1.02	NO	11730	3.21	11730
73	PCB-84/92	748865.625	1.519	NO	0.879	1.000	37.30	37.29	0.99	0.99	NO	22880	5.07	22880
74	PCB-89	397757.438	1.518	NO	0.959	1.000	37.47	37.49	0.99	1.00	NO	11130	4.65	11130
75	PCB-90/101	803597.938	1.499	NO	0.944	1.000	37.68	37.68	1.00	1.00	NO	22860	4.72	22860
76	PCB-113	524531.813	1.530	NO	1.23	1.000	37.93	37.94	1.01	1.01	NO	11440	3.62	11440
77	PCB-99	483796.438	1.551	NO	1.12	1.000	38.03	38.03	1.01	1.01	NO	11610	3.98	11610
78	PCB-119	536746.203	1.524	NO	1.47	1.000	38.51	38.50	0.99	0.99	NO	11470	3.55	11470
79	PCB-108/112	918915.719	1.495	NO	1.25	1.000	38.67	38.67	0.99	0.99	NO	23130	4.18	23130
80	PCB-83	558527.266	1.490	NO	1.55	1.000	38.83	38.83	1.00	1.00	NO	11360	3.38	11360
81	PCB-97	396193.640	1.511	NO	1.07	1.000	39.06	39.04	1.00	1.00	NO	11590	4.86	11590
82	PCB-86	330855.297	1.482	NO	0.996	1.000	39.21	39.19	1.00	1.00	NO	10450	5.24	10450
83	PCB-87/117/125	1507420.0...	1.510	NO	1.33	1.000	39.32	39.32	1.01	1.01	NO	35580	3.92	35580
84	PCB-111/115	1151513.1...	1.470	NO	1.60	1.000	39.49	39.49	1.01	1.01	NO	22620	3.26	22620
85	PCB-85/116	878374.876	1.511	NO	1.22	1.000	39.61	39.60	1.02	1.01	NO	22720	4.29	22720
86	PCB-120	587135.047	1.509	NO	1.68	1.000	39.88	39.88	1.02	1.02	NO	10990	3.11	10990
87	PCB-110	524819.859	1.534	NO	1.49	1.000	40.02	40.01	1.03	1.03	NO	11110	3.51	11110
88	PCB-82	287546.453	1.557	NO	0.674	1.000	40.65	40.66	0.98	0.98	NO	10970	6.34	10970
89	PCB-124	496482.063	1.505	NO	1.16	1.000	41.36	41.37	0.99	0.99	NO	10980	3.68	10980
90	PCB-107/109	1029029.6...	1.511	NO	1.17	1.000	41.51	41.51	1.00	1.00	NO	22690	3.67	22690
91	PCB-123	472853.656	1.499	NO	1.04	1.000	41.68	41.68	1.00	1.00	NO	11680	4.11	11680
92	PCB-106/118	1031776.6...	1.508	NO	1.07	1.000	41.89	41.91	1.00	1.00	NO	23070	3.82	23070
93	PCB-114	625536.563	1.602	NO	1.16	1.000	42.55	42.54	1.00	1.00	NO	11100	6.04	11100
94	PCB-122	536559.704	1.578	NO	0.973	1.000	42.67	42.70	1.00	1.00	NO	11370	7.21	11370
95	PCB-105	635636.047	1.601	NO	1.10	1.000	43.43	43.45	1.00	1.00	NO	11490	6.21	11490
96	PCB-127	675334.094	1.607	NO	1.11	1.000	43.79	43.79	1.00	1.00	NO	11470	5.68	11470
97	PCB-126	629922.688	1.568	NO	1.21	1.000	45.75	45.76	1.00	1.00	NO	11560	6.59	11560
98	PCB-155	356559.329	1.253	NO	0.874	1.000	37.22	37.22	1.00	1.00	NO	11700	2.22	11700

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99	PCB-150	363065.797	1.303	NO	0.881	1.000	38.52	38.52	1.04	1.04	NO	11820	2.21	11820
100	PCB-152	404330.969	1.303	NO	1.00	1.000	39.00	39.00	1.05	1.05	NO	11550	1.94	11550
101	PCB-145	394037.297	1.282	NO	1.00	1.000	39.47	39.47	1.06	1.06	NO	11310	1.94	11310
102	PCB-136	318597.109	1.279	NO	0.843	1.000	39.80	39.80	1.07	1.07	NO	10840	2.31	10840
103	PCB-148	264535.344	1.308	NO	0.693	1.000	39.90	39.91	1.07	1.07	NO	10940	2.80	10940
104	PCB-154	259315.250	1.287	NO	0.724	1.000	40.44	40.44	1.09	1.09	NO	10270	2.69	10270
105	PCB-151	223929.546	1.312	NO	0.632	1.000	41.09	41.09	1.10	1.10	NO	10160	3.08	10160
106	PCB-135	247427.688	1.288	NO	0.716	1.000	41.31	41.31	1.11	1.11	NO	9912	2.72	9912
107	PCB-144	239225.235	1.291	NO	0.667	1.000	41.42	41.42	1.11	1.11	NO	10290	2.92	10290
108	PCB-147	236861.773	1.315	NO	0.661	1.000	41.55	41.55	1.12	1.12	NO	10280	2.94	10280
109	PCB-139/149	559591.281	1.303	NO	0.738	1.000	41.83	41.83	1.12	1.12	NO	21740	2.63	21740
110	PCB-140	232794.727	1.286	NO	0.627	1.000	42.02	42.02	1.13	1.13	NO	10640	3.10	10640
111	PCB-134/143	683067.437	1.175	NO	0.733	1.000	42.49	42.47	0.97	0.97	NO	22160	9.38	22160
112	PCB-131/133	722492.531	1.165	NO	0.790	1.000	42.78	42.79	0.98	0.98	NO	21750	8.71	21750
113	PCB-142	325665.172	1.193	NO	0.708	1.000	42.93	42.94	0.99	0.99	NO	10940	9.72	10940
114	PCB-146/165	893388.657	1.194	NO	0.959	1.000	43.19	43.19	0.99	0.99	NO	22150	7.17	22150
115	PCB-132/161	903122.750	1.200	NO	0.974	1.000	43.42	43.44	1.00	1.00	NO	22050	7.06	22050
116	PCB-153	469624.922	1.170	NO	1.01	1.000	43.60	43.60	1.00	1.00	NO	11040	6.80	11040
117	PCB-168	491013.844	1.197	NO	1.02	1.000	43.83	43.83	1.01	1.01	NO	11460	6.75	11460
118	PCB-141	368352.688	1.182	NO	0.967	1.000	44.36	44.38	1.00	1.00	NO	10850	8.70	10850
119	PCB-137	363852.203	1.176	NO	0.987	1.000	44.74	44.76	1.01	1.01	NO	10500	8.52	10500
120	PCB-130	324113.657	1.195	NO	0.840	1.000	44.86	44.87	1.01	1.01	NO	10990	10.0	10990
121	PCB-138/163/164	1483234.1...	1.191	NO	1.23	1.000	45.25	45.27	1.00	1.00	NO	34240	6.79	34240
122	PCB-158/160	917411.219	1.192	NO	1.18	1.000	45.50	45.52	1.01	1.01	NO	22040	7.07	22040
123	PCB-129	308924.438	1.171	NO	0.819	1.000	45.75	45.76	1.01	1.01	NO	10670	10.2	10670
124	PCB-166	481057.844	1.181	NO	1.07	1.000	46.23	46.22	0.99	0.99	NO	11520	7.23	11520
125	PCB-159	494299.922	1.179	NO	1.12	1.000	46.56	46.58	1.00	1.00	NO	11310	6.91	11310
126	PCB-128/162	758684.687	1.192	NO	0.851	1.000	46.85	46.86	1.01	1.01	NO	22840	9.09	22840
127	PCB-167	445866.250	1.179	NO	1.04	1.000	47.28	47.28	1.00	1.00	NO	11080	7.37	11080
128	PCB-156	485135.750	1.175	NO	1.06	1.000	48.61	48.61	1.00	1.00	NO	11610	7.14	11610
129	PCB-157	455872.203	1.217	NO	0.978	1.000	48.89	48.89	1.00	1.00	NO	11310	7.63	11310
130	PCB-169	479336.218	1.185	NO	1.11	1.000	51.17	51.16	1.00	1.00	NO	10800	7.01	10800
131	PCB-188	500541.453	1.033	NO	1.19	1.000	43.25	43.23	1.00	1.00	NO	11530	6.30	11530
132	PCB-184	466764.578	1.032	NO	1.17	1.000	43.69	43.68	1.01	1.01	NO	11000	6.44	11000

Dataset: U:\VG11.PRO\Results\191114K2\191114K2-3.qld

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133	PCB-179	482034.344	1.033	NO	1.18	1.000	44.50	44.50	1.03	1.03	NO	11260	6.39	11260
134	PCB-176	479861.625	1.028	NO	1.16	1.000	44.97	44.97	1.04	1.04	NO	11380	6.48	11380
135	PCB-186	512374.859	1.031	NO	1.22	1.000	45.59	45.60	1.06	1.06	NO	11560	6.17	11560
136	PCB-178	324435.187	1.024	NO	0.830	1.000	46.10	46.11	1.07	1.07	NO	10740	9.05	10740
137	PCB-175	311610.375	1.040	NO	0.849	1.000	46.46	46.47	1.08	1.08	NO	10090	8.86	10090
138	PCB-182/187	736307.719	1.033	NO	0.960	1.000	46.66	46.65	1.08	1.08	NO	21080	7.83	21080
139	PCB-183	346500.735	1.020	NO	0.957	1.000	46.99	46.98	1.09	1.09	NO	9956	7.86	9956
140	PCB-185	304535.750	1.045	NO	1.32	1.000	47.66	47.66	0.95	0.95	NO	9968	9.20	9968
141	PCB-174	280329.937	0.998	NO	1.22	1.000	48.04	48.04	0.96	0.96	NO	9935	9.96	9935
142	PCB-181	350265.891	1.049	NO	1.41	1.000	48.13	48.13	0.96	0.96	NO	10700	8.58	10700
143	PCB-177	285730.281	1.019	NO	1.24	1.000	48.31	48.30	0.97	0.97	NO	9948	9.78	9948
144	PCB-171	311924.907	1.006	NO	1.24	1.000	48.61	48.61	0.97	0.97	NO	10850	9.77	10850
145	PCB-173	285470.594	1.019	NO	1.14	1.000	49.05	49.04	0.98	0.98	NO	10800	10.6	10800
146	PCB-172	327267.266	1.013	NO	1.31	1.000	49.53	49.52	0.99	0.99	NO	10810	9.28	10810
147	PCB-192	436456.766	1.034	NO	1.70	1.000	49.72	49.71	1.00	1.00	NO	11080	7.13	11080
148	PCB-180	347149.375	1.046	NO	1.32	1.000	49.93	49.93	1.00	1.00	NO	11360	9.19	11360
149	PCB-193	405521.829	1.023	NO	1.54	1.000	50.16	50.14	1.00	1.00	NO	11380	7.88	11380
150	PCB-191	400039.360	1.016	NO	1.57	1.000	50.41	50.41	1.01	1.01	NO	10980	7.71	10980
151	PCB-170	294767.141	1.045	NO	1.36	1.000	51.60	51.60	1.00	1.00	NO	10770	9.81	10770
152	PCB-190	398996.140	1.020	NO	1.84	1.000	51.79	51.79	1.00	1.00	NO	10770	7.25	10770
153	PCB-189	404038.016	1.015	NO	1.33	1.000	53.29	53.29	1.00	1.00	NO	11680	7.00	11680
154	PCB-202	354050.687	0.890	NO	1.02	1.000	48.84	48.81	1.00	1.00	NO	11890	4.71	11890
155	PCB-201	313849.485	0.888	NO	0.915	1.000	49.32	49.33	1.01	1.01	NO	11790	5.28	11790
156	PCB-204	332008.062	0.879	NO	0.979	1.000	49.47	49.48	1.01	1.01	NO	11660	4.93	11660
157	PCB-197	342343.578	0.888	NO	0.979	1.000	49.79	49.80	1.02	1.02	NO	12020	4.93	12020
158	PCB-200	332519.126	0.909	NO	0.954	1.000	50.74	50.73	1.04	1.04	NO	11980	5.06	11980
159	PCB-198	240607.485	0.899	NO	0.748	1.000	52.26	52.28	1.07	1.07	NO	11060	6.45	11060
160	PCB-199	237034.032	0.885	NO	0.706	1.000	52.37	52.40	1.07	1.07	NO	11540	6.84	11540
161	PCB-196/203	512800.360	0.896	NO	0.785	1.000	52.70	52.70	1.08	1.08	NO	22470	6.15	22470
162	PCB-195	312313.734	0.903	NO	1.03	1.000	53.97	53.98	0.98	0.98	NO	10590	5.46	10590
163	PCB-194	364623.047	0.890	NO	1.16	1.000	54.89	54.89	1.00	1.00	NO	11050	4.88	11050
164	PCB-205	486287.609	0.905	NO	1.40	1.000	55.15	55.17	1.01	1.01	NO	12170	4.03	12170
165	PCB-208	332030.657	1.271	NO	0.934	1.000	54.13	54.13	1.00	1.00	NO	10660	5.93	10660
166	PCB-207	335576.203	1.276	NO	0.912	1.000	54.45	54.46	1.01	1.01	NO	11040	6.07	11040

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167	PCB-206	306061.016	1.303	NO	0.987	1.000	56.41	56.41	1.00	1.00	NO	10930	6.75	10930
168	PCB-209	350297.938	1.211	NO	0.943	1.000	57.62	57.64	1.00	1.00	NO	11510	0.930	11510
169	13C-PCB-1	1618283.8...	3.474	NO	1.08	1.000	15.66	15.66	0.61	0.61	NO	12300	61.5	11.0
170	13C-PCB-3	1730227.5...	3.165	NO	1.09	1.000	18.32	18.32	0.71	0.71	NO	12990	64.9	10.9
171	13C-PCB-4	1121060.2...	1.594	NO	0.640	1.000	19.67	19.68	0.77	0.77	NO	14350	71.7	6.16
172	13C-PCB-9	1762818.5...	1.579	NO	0.995	1.000	21.51	21.51	0.84	0.84	NO	14500	72.5	3.96
173	13C-PCB-11	1961084.6...	1.567	NO	0.971	1.000	24.99	24.99	0.97	0.97	NO	16530	82.7	4.06
174	13C-PCB-19	979391.469	0.996	NO	0.637	1.000	23.93	23.93	0.93	0.93	NO	12590	62.9	36.4
175	13C-PCB-32	1381038.0...	0.995	NO	0.910	1.000	26.95	26.93	1.05	1.05	NO	12430	62.2	25.5
176	13C-PCB-28	1527491.6...	0.982	NO	1.07	1.000	28.95	28.95	1.00	1.00	NO	14640	73.2	34.8
177	13C-PCB-37	1500212.4...	0.960	NO	0.959	1.000	32.94	32.96	1.14	1.14	NO	16020	80.1	38.7
178	13C-PCB-54	1195741.1...	0.735	NO	1.10	1.000	27.78	27.80	0.75	0.75	NO	14850	74.3	9.21
179	13C-PCB-52	997166.782	0.750	NO	0.844	1.000	31.46	31.45	0.85	0.85	NO	16110	80.6	12.0
180	13C-PCB-47	1044540.2...	0.767	NO	0.893	1.000	31.98	31.97	0.87	0.87	NO	15950	79.8	11.3
181	13C-PCB-70	1177556.9...	0.762	NO	1.01	1.000	35.61	35.62	0.97	0.97	NO	15940	79.7	10.0
182	13C-PCB-80	1253511.5...	0.769	NO	1.05	1.000	36.04	36.06	0.98	0.98	NO	16350	81.8	9.68
183	13C-PCB-81	1174026.5...	0.754	NO	0.985	1.000	39.26	39.26	1.06	1.06	NO	16260	81.3	10.3
184	13C-PCB-77	1117374.313	0.752	NO	0.958	1.000	39.87	39.88	1.08	1.08	NO	15900	79.5	10.6
185	13C-PCB-104	939185.219	1.614	NO	1.10	1.000	32.66	32.64	0.83	0.83	NO	15850	79.3	5.56
186	13C-PCB-95	750288.750	1.623	NO	0.852	1.000	35.93	35.91	0.91	0.91	NO	16310	81.5	7.15
187	13C-PCB-101	745009.657	1.652	NO	0.814	1.000	37.68	37.66	0.95	0.95	NO	16960	84.8	7.49
188	13C-PCB-97	635906.094	1.645	NO	0.709	1.000	39.02	39.02	0.99	0.99	NO	16600	83.0	8.59
189	13C-PCB-123	777575.063	1.650	NO	0.922	1.000	41.65	41.66	1.06	1.06	NO	15620	78.1	6.61
190	13C-PCB-118	835862.156	1.617	NO	0.975	1.000	41.84	41.85	1.06	1.06	NO	15880	79.4	6.25
191	13C-PCB-114	970101.750	1.497	NO	1.52	1.000	42.53	42.53	0.91	0.91	NO	20020	100	7.30
192	13C-PCB-105	1005187.6...	1.519	NO	1.58	1.000	43.42	43.42	0.93	0.93	NO	19910	99.5	7.00
193	13C-PCB-127	1062646.1...	1.483	NO	1.62	1.000	43.78	43.78	0.93	0.93	NO	20550	103	6.84
194	13C-PCB-126	898848.251	1.545	NO	1.45	1.000	45.73	45.73	0.98	0.98	NO	19500	97.5	7.67
195	13C-PCB-155	697311.500	1.308	NO	1.03	1.000	37.19	37.20	0.94	0.94	NO	12590	62.9	4.95
196	13C-PCB-153	840806.594	1.268	NO	1.42	1.000	43.59	43.59	0.93	0.93	NO	18520	92.6	9.67
197	13C-PCB-141	701849.688	1.242	NO	1.14	1.000	44.37	44.34	0.95	0.95	NO	19260	96.3	12.0
198	13C-PCB-138	706497.031	1.275	NO	1.18	1.000	45.23	45.22	0.97	0.97	NO	18780	93.9	11.7
199	13C-PCB-159	780904.812	1.253	NO	1.43	1.000	46.57	46.54	0.99	0.99	NO	17090	85.4	9.60
200	13C-PCB-167	771849.531	1.265	NO	1.42	1.000	47.27	47.26	1.01	1.01	NO	17000	85.0	9.67

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201	13C-PCB-156	790508.312	1.272	NO	1.40	1.000	48.59	48.59	1.04	1.04	NO	17740	88.7	9.85
202	13C-PCB-157	824201.719	1.244	NO	1.41	1.000	48.87	48.85	1.04	1.04	NO	18380	91.9	9.79
203	13C-PCB-169	802115.500	1.248	NO	1.35	1.000	51.14	51.15	1.09	1.09	NO	18690	93.4	10.2
204	13C-PCB-188	727708.062	0.451	NO	1.46	1.000	43.21	43.21	0.93	0.93	NO	18300	91.5	7.25
205	13C-PCB-180	463054.484	0.440	NO	0.932	1.000	49.91	49.91	1.07	1.07	NO	18280	91.4	11.4
206	13C-PCB-170	402252.945	0.457	NO	0.796	1.000	51.58	51.58	1.11	1.11	NO	18600	93.0	13.3
207	13C-PCB-189	519156.031	0.439	NO	1.09	1.000	53.26	53.27	1.14	1.14	NO	17510	87.6	9.73
208	13C-PCB-202	581731.125	0.972	NO	1.45	1.000	48.82	48.80	1.05	1.05	NO	14750	73.8	5.64
209	13C-PCB-194	570797.844	0.890	NO	0.714	1.000	54.89	54.87	1.00	0.99	NO	16040	80.2	8.49
210	13C-PCB-208	666665.469	0.786	NO	0.896	1.000	54.13	54.11	0.98	0.98	NO	14920	74.6	7.82
211	13C-PCB-206	567195.094	0.812	NO	0.653	1.000	56.41	56.40	1.02	1.02	NO	17430	87.1	10.7
212	13C-PCB-209	645907.219	1.212	NO	0.806	1.000	57.64	57.62	1.05	1.04	NO	16080	80.4	1.07
213	13C-PCB-15	2442075.4...	1.578	NO	1.00	1.000	25.71	25.71	1.00	0.00	NO	20000	100	3.94
214	13C-PCB-31	1951563.4...	0.977	NO	1.00	1.000	28.84	28.86	1.00	0.00	NO	20000	100	37.2
215	13C-PCB-60	1466151.3...	0.738	NO	1.00	1.000	36.90	36.90	1.00	0.00	NO	20000	100	10.1
216	13C-PCB-111	1080050.1...	1.625	NO	1.00	1.000	39.47	39.47	1.00	0.00	NO	20000	100	6.10
217	13C-PCB-128	637739.969	1.263	NO	1.00	1.000	46.82	46.83	1.00	0.00	NO	20000	100	13.8
218	13C-PCB-182	543748.594	0.448	NO	1.00	1.000	46.65	46.65	0.00	0.00	NO	20000	100	10.6
219	13C-PCB-205	997315.281	0.900	NO	1.00	1.000	55.15	55.15	1.00	0.00	NO	20000	100	6.06
220	13C-PCB-79	1369835.0...	0.745	NO	1.03	1.000	38.03	38.00	1.03	1.03	NO	18110	90.5	9.81
221	13C-PCB-178	464058.954	0.430	NO	0.875	1.000	46.10	46.09	0.99	0.99	NO	16640	83.2	9.86
222	13C-PCB-79	1369835.0...	0.745	NO	1.05	1.000	37.99	38.00	0.97	0.97	NO	22320	112	12.3
223	13C-PCB-178	464133.547	0.430	NO	0.975	1.000	46.10	46.09	0.92	0.92	NO	20560	103	12.6

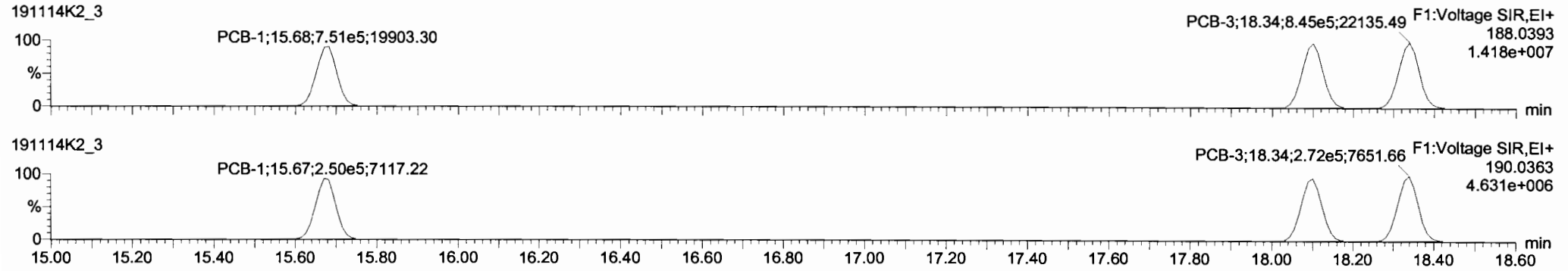


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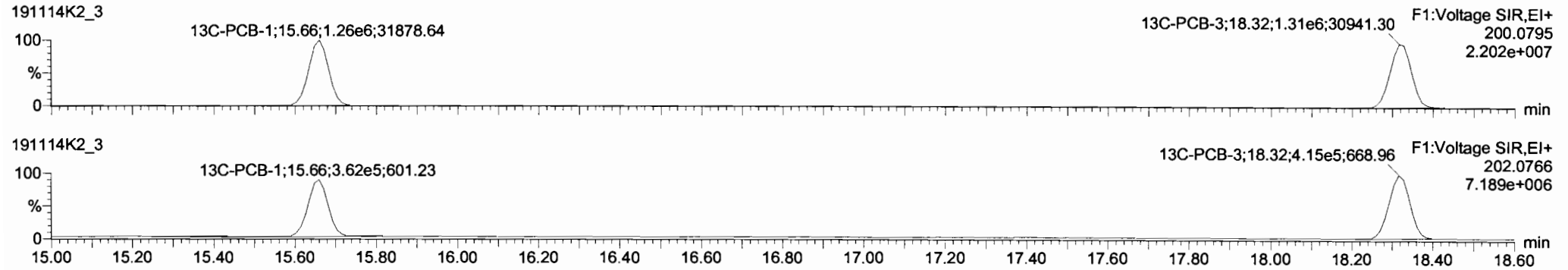
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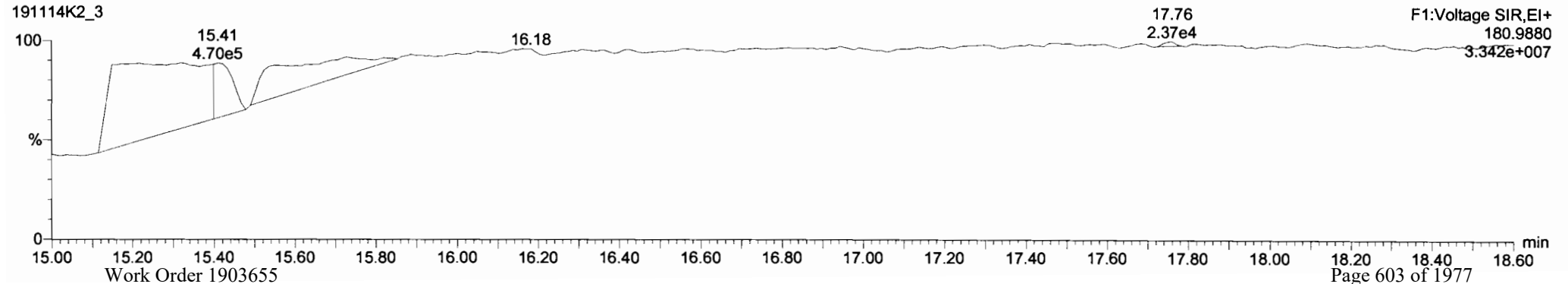
**PCB-1**



**13C-PCB-1**



**PFK1**



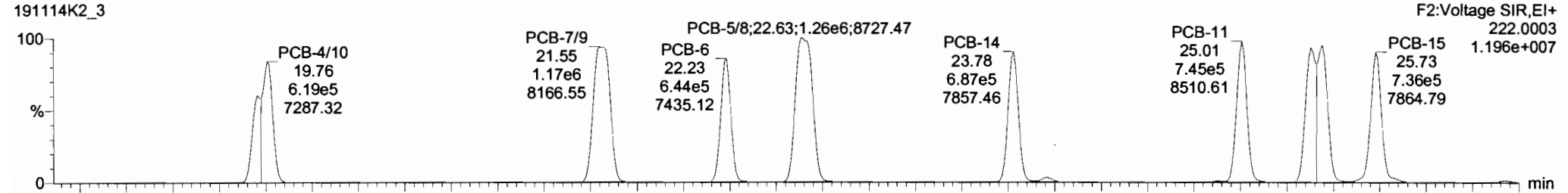
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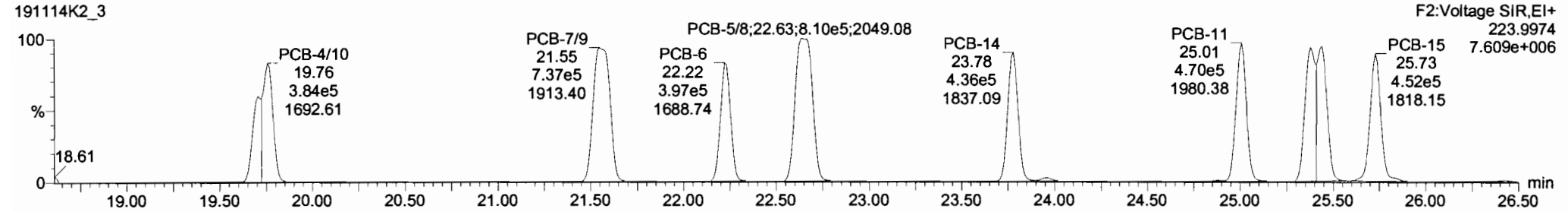
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**PCB-4/10**

191114K2\_3

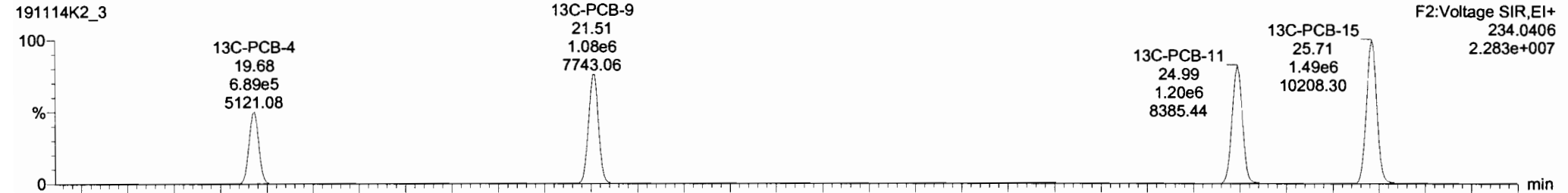


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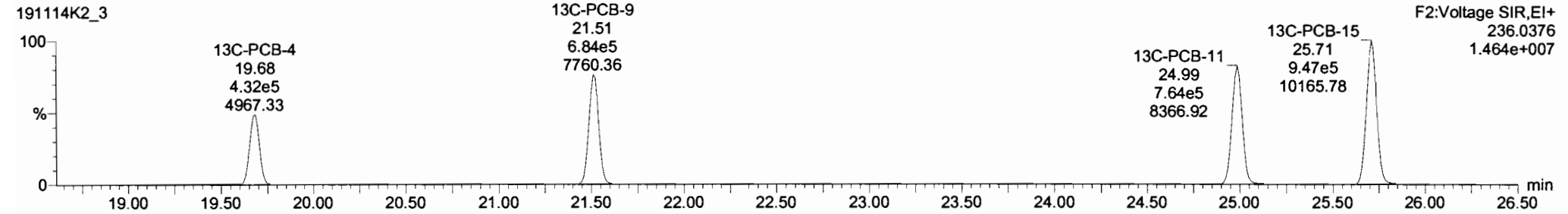


**13C-PCB-4**

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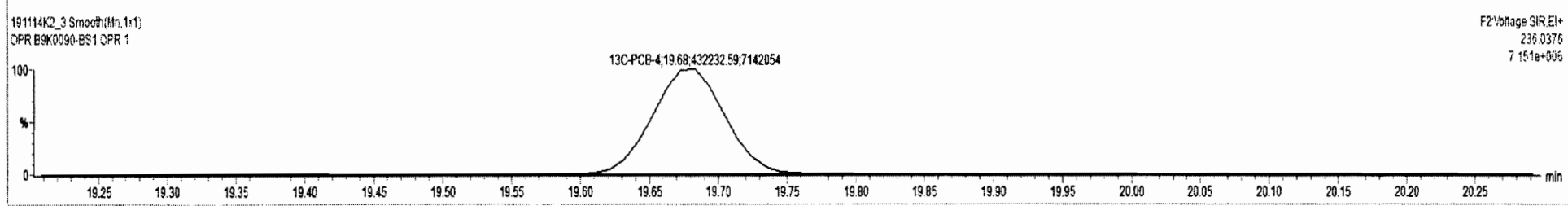
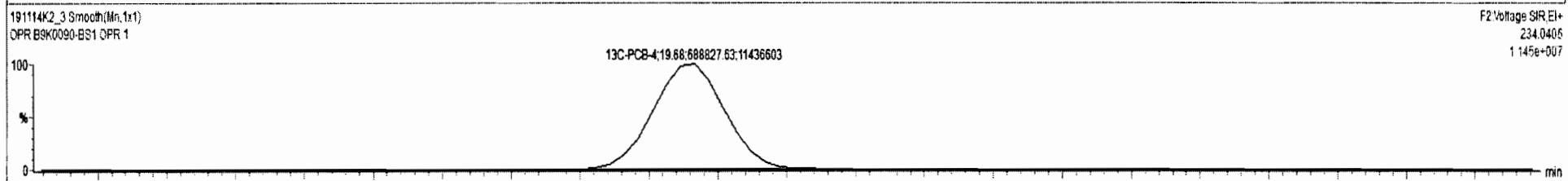
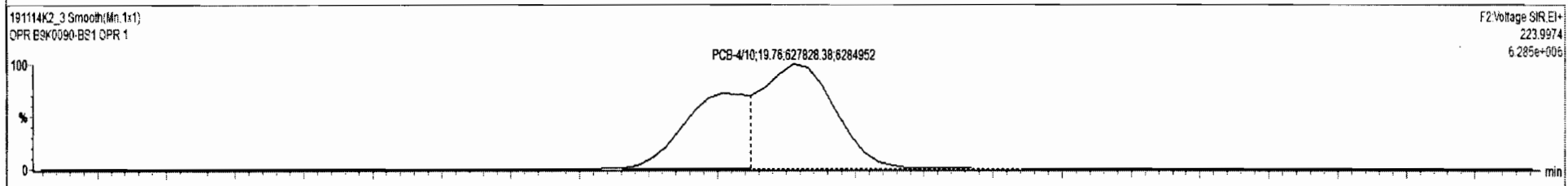
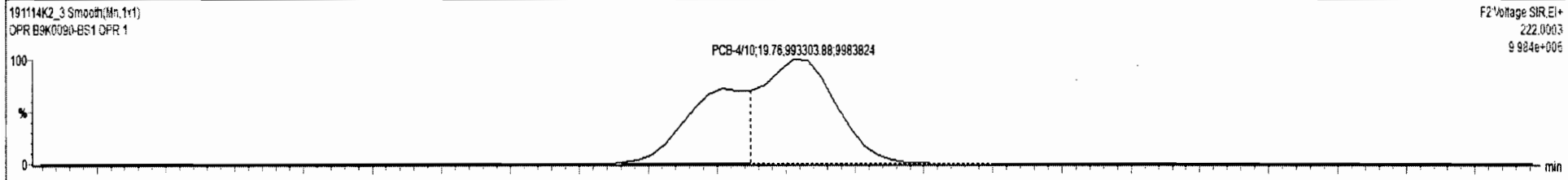


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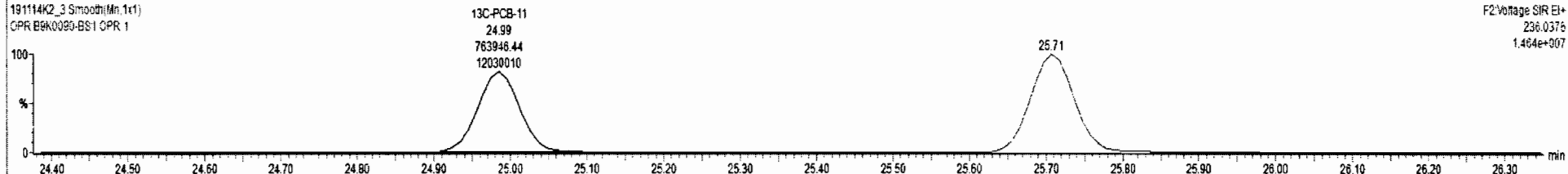
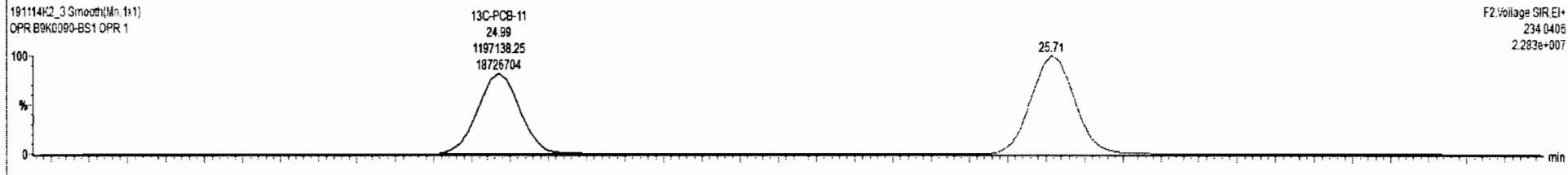
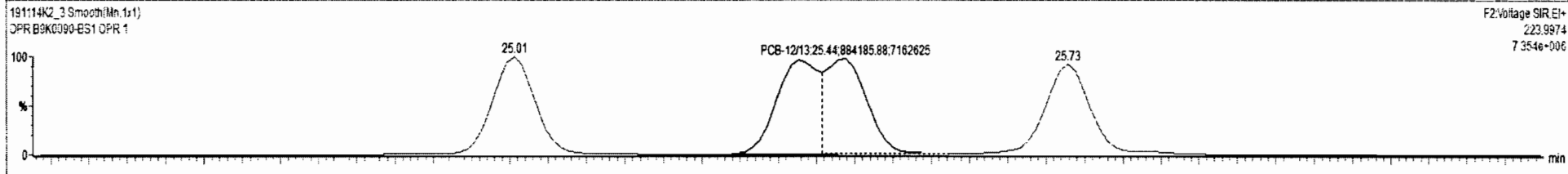
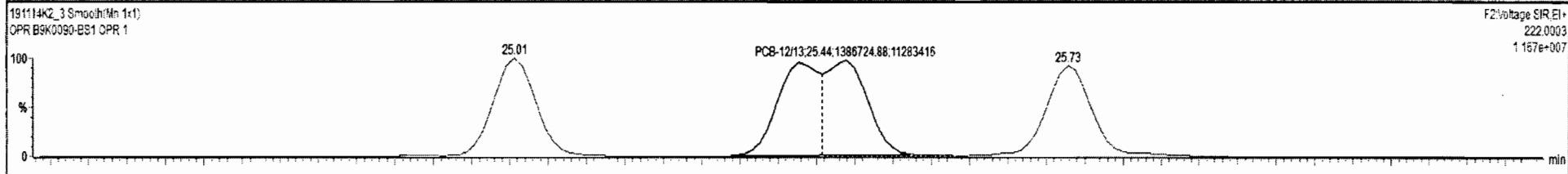
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1	PCB-1	1.00e5	3.00	NO	1.0206	1.000	15.67	15.68	1.001	1.001	NO	12120		1.72	12120
2	PCB-2	1.11e6	3.15	NO	1.0090	1.000	18.10	18.10	0.988	0.988	NO	12650		1.75	12650
3	PCB-3	1.12e6	3.11	NO	1.0070	1.000	18.33	18.34	1.001	1.001	NO	12820		1.76	12820
4	PCB-4/10	1.62e6	1.58	NO	1.2754	1.000	19.76	19.76	1.004	1.004	NO	22800		6.54	22800
5	PCB-7/9	1.90e6	1.58	NO	0.9761	1.000	21.57	21.55	1.003	1.002	NO	22140		7.35	22140
6	PCB-6	1.04e6	1.62	NO	1.0171	1.000	22.22	22.23	1.033	1.034	NO	11620		7.06	11620
7	PCB-5/8	2.07e6	1.56	NO	1.0111	1.000	22.63	22.83	1.052	1.052	NO	23270		7.10	23270
8	PCB-14	1.12e6	1.58	NO	1.0328	1.000	23.78	23.78	0.952	0.952	NO	11090		6.40	11090
9	PCB-11	1.21e6	1.59	NO	1.0950	1.000	25.00	25.01	1.001	1.001	NO	11300		6.03	11300
10	PCB-12/13	1.15e6	1.63	NO	1.0371	1.000	25.44	25.44	1.018	1.018	NO	11330		6.37	11330
11	PCB-15	1.19e6	1.63	NO	1.0284	1.000	25.74	25.73	1.030	1.030	NO	11780		6.43	11780
12	PCB-19	5.46e5	0.95	NO	0.9342	1.000	23.96	23.95	1.001	1.001	NO	11940		4.22	11940
13	PCB-30	8.94e5	0.96	NO	1.4809	1.000	24.89	24.87	1.040	1.039	NO	12330		2.67	12330



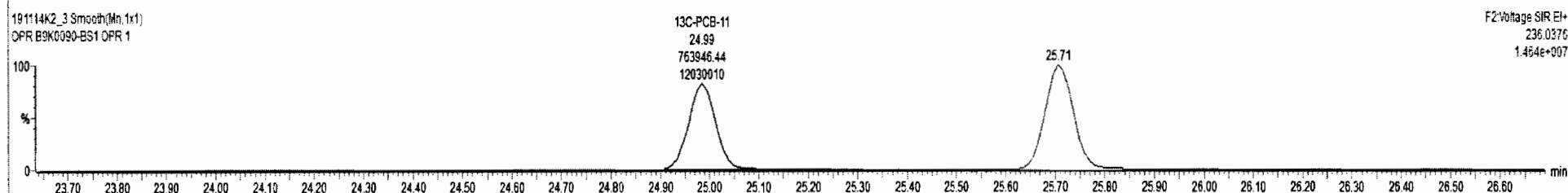
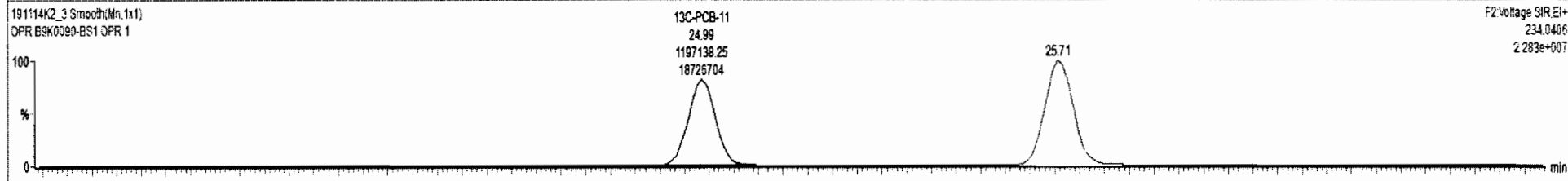
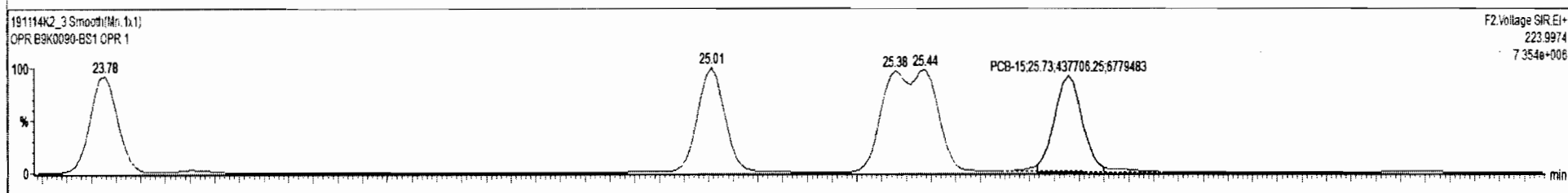
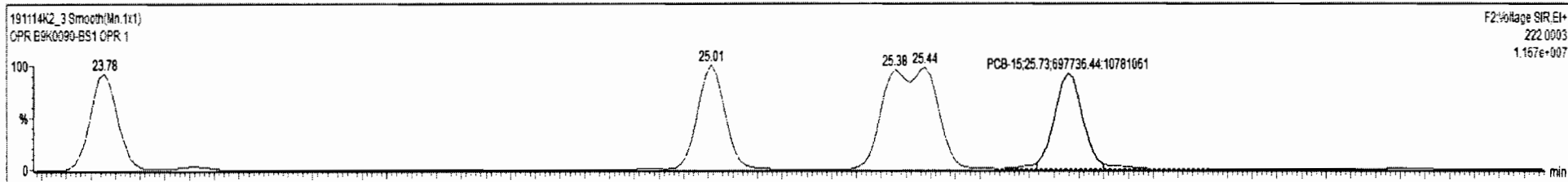
191114K2\_3 - B9K0090 BS1 OPR 1 - OPR

#	Name	Resp	RA	nly	RRF	wtVol	Prod.RT	RT	Prod.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	PCB-1	1.00e6	3.00	NO	1.0206	1.000	15.67	15.68	1.001	1.001	NO	12120		1.72	12120
2	PCB-2	1.11e6	3.15	NO	1.0090	1.000	18.10	18.10	0.998	0.998	NO	12650		1.75	12660
3	PCB-3	1.12e6	3.11	NO	1.0070	1.000	18.33	18.34	1.001	1.001	NO	12820		1.76	12820
4	PCB-4/10	1.62e6	1.58	NO	1.2754	1.000	19.76	19.76	1.004	1.004	NO	22680		8.54	22680
5	PCB-7/9	1.90e6	1.58	NO	0.9761	1.000	21.57	21.55	1.003	1.002	NO	22140		7.35	22140
6	PCB-6	1.04e6	1.62	NO	1.0171	1.000	22.22	22.23	1.033	1.034	NO	11620		7.06	11620
7	PCB-5/8	2.07e6	1.56	NO	1.0111	1.000	22.63	22.63	1.052	1.052	NO	23270		7.10	23270
8	PCB-14	1.12e6	1.58	NO	1.0328	1.000	23.78	23.78	0.952	0.952	NO	11090		6.40	11090
9	PCB-11	1.21e6	1.59	NO	1.0960	1.000	25.00	25.01	1.001	1.001	NO	11300		6.03	11300
10	PCB-12/13	2.27e6	1.57	NO	1.0371	1.000	25.44	25.44	1.018	1.018	NO	22330		6.37	22330
11	PCB-15	1.19e6	1.63	NO	1.0284	1.000	25.74	25.73	1.030	1.030	NO	11780		6.43	11780
12	PCB-19	5.46e5	0.95	NO	0.9342	1.000	23.96	23.95	1.001	1.001	NO	11940		4.22	11940
13	PCB-30	8.94e5	0.96	NO	1.4809	1.000	24.89	24.87	1.040	1.039	NO	12330		2.67	12330



Custom Reporting: Select reports to generate

#	Name	Resp	RA	n/y	RRF	w/wol	Pred.RT	RT	Pred.R...	RTT	RTT Fail	Conc.	%Rec	DL	EMPC
1	PCB-1	1.00e6	3.00	NO	1.0206	1.000	15.67	15.68	1.001	1.001	NO	12120		1.72	12120
2	PCB-2	1.11e6	3.15	NO	1.0090	1.000	18.10	18.10	0.988	0.988	NO	12660		1.75	12660
3	PCB-3	1.12e6	3.11	NO	1.0070	1.000	18.33	18.34	1.001	1.001	NO	12620		1.76	12620
4	PCB-4/10	1.62e6	1.58	NO	1.2754	1.000	19.76	19.76	1.004	1.004	NO	22680		8.54	22680
5	PCB-7/9	1.90e6	1.56	NO	0.9761	1.000	21.57	21.55	1.003	1.002	NO	22140		7.35	22140
6	PCB-6	1.04e6	1.62	NO	1.0171	1.000	22.22	22.23	1.033	1.034	NO	11620		7.06	11620
7	PCB-5/8	2.07e6	1.56	NO	1.0111	1.000	22.63	22.63	1.052	1.052	NO	23270		7.10	23270
8	PCB-14	1.12e6	1.58	NO	1.0328	1.000	23.78	23.78	0.952	0.952	NO	11090		6.40	11090
9	PCB-11	1.21e6	1.59	NO	1.0960	1.000	25.00	25.01	1.001	1.001	NO	11300		6.03	11300
10	PCB-12/13	2.27e6	1.57	NO	1.0371	1.000	25.44	25.44	1.018	1.018	NO	22330		6.37	22330
11	PCB-15	1.14e6	1.59	NO	1.0284	1.000	25.74	25.73	1.039	1.030	NO	11260		6.43	11260
12	PCB-19	5.46e5	0.95	NO	0.9342	1.000	23.96	23.95	1.001	1.001	NO	11940		4.22	11940
13	PCB-30	8.94e5	0.96	NO	1.4809	1.000	24.89	24.87	1.040	1.039	NO	12330		2.67	12330



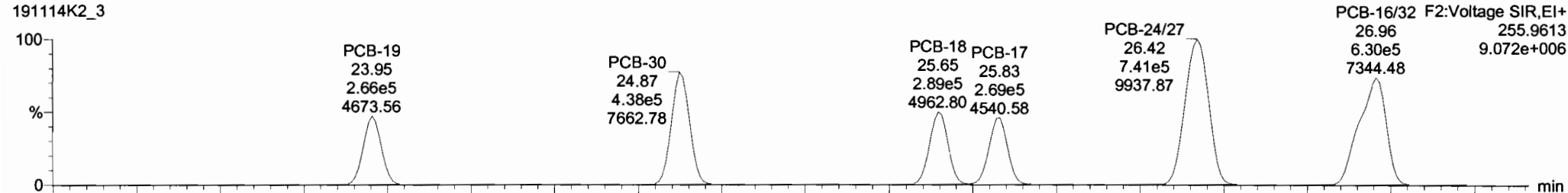
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Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

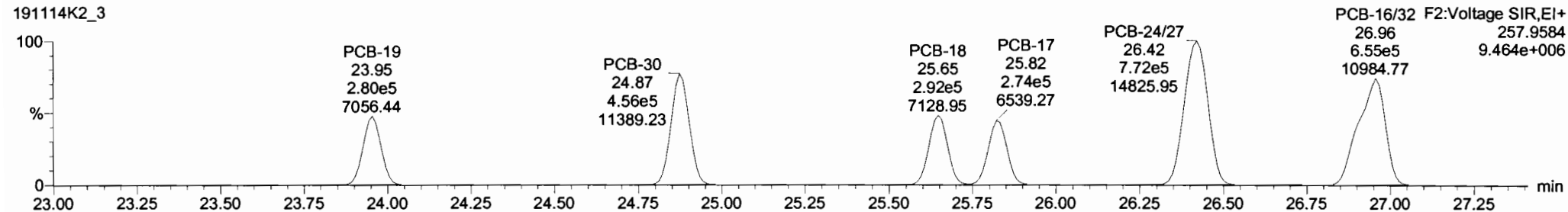
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PCB-19

191114K2\_3

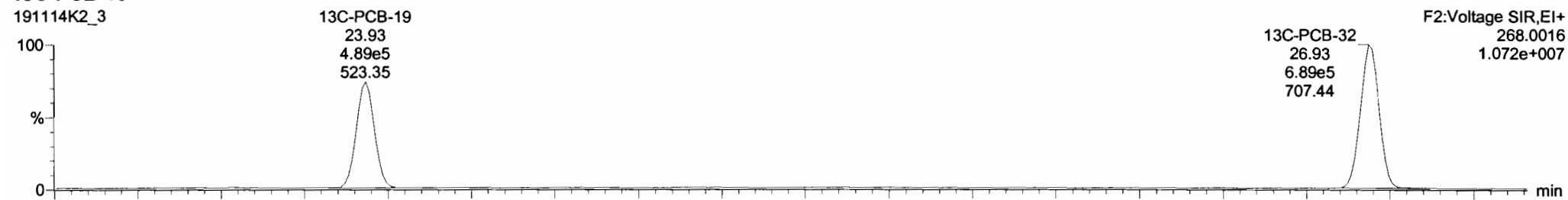


191114K2\_3

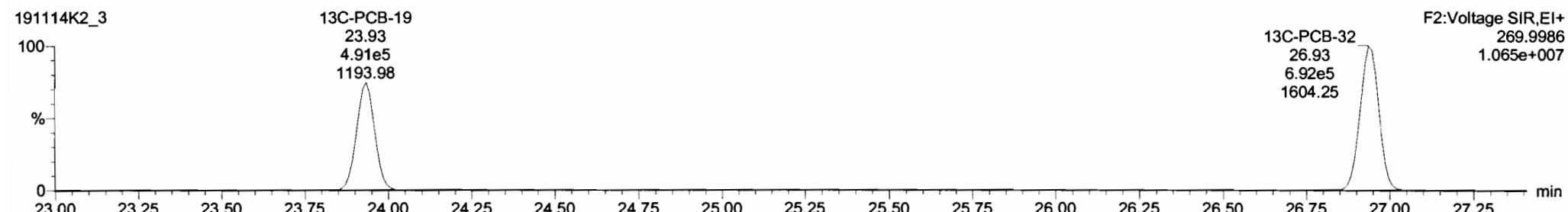


13C-PCB-19

191114K2\_3



191114K2\_3



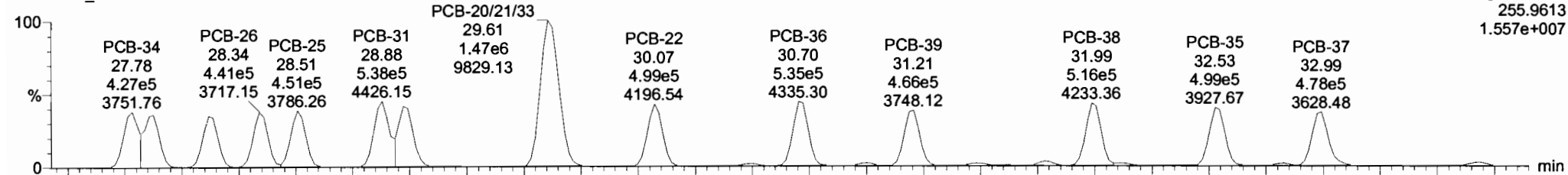
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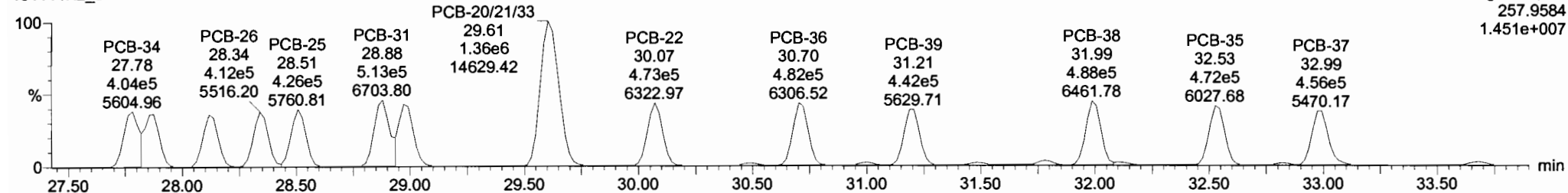
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**PCB-34**

191114K2\_3

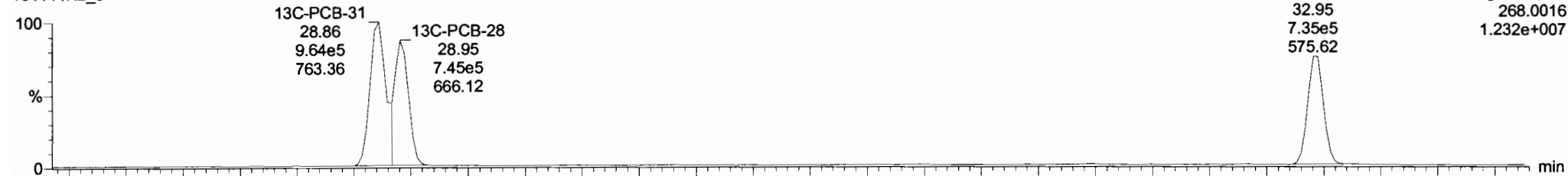


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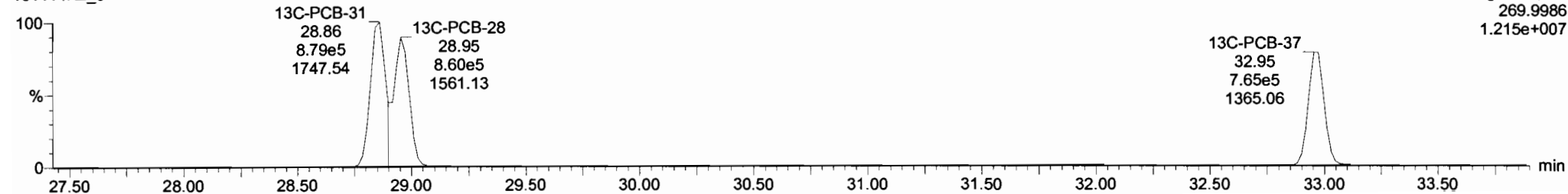


**13C-PCB-28**

191114K2\_3

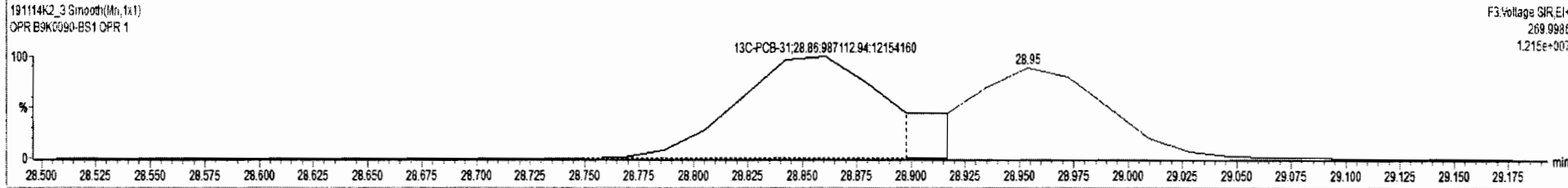
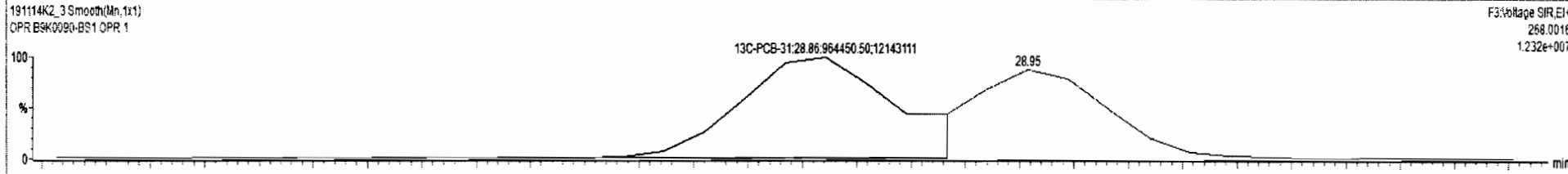
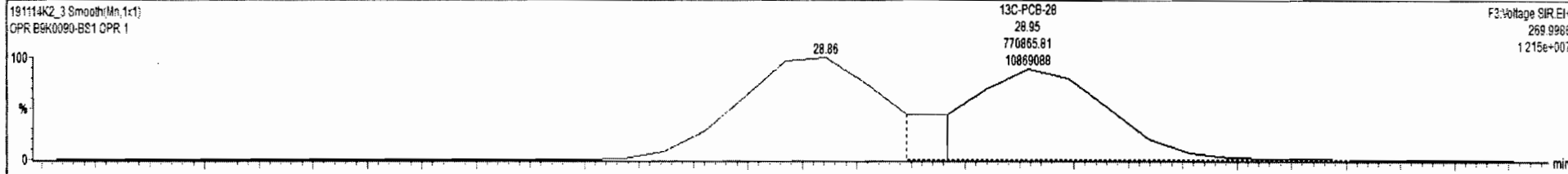
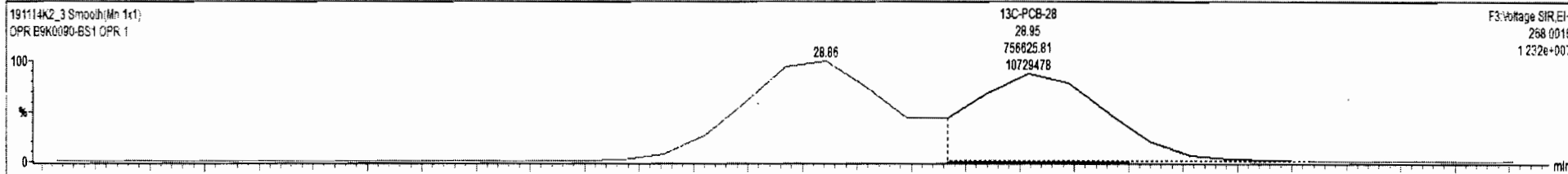


191114K2\_3



191114K2\_3 - B9K0090-BS1 OPR 1 - OPR

#	Name	Resp	RA	aly	RDF	wt/vol	Pred.RT	RT	Pred.RL	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
160	160 PCB-199	2.37e5	0.89	NO	0.7059	1.000	52.37	52.40	1.073	1.074	NO	11540		6.84	11540
161	161 PCB-196/203	5.13e5	0.90	NO	0.7848	1.000	52.70	52.70	1.080	1.080	NO	22470		6.15	22470
162	162 PCB-195	3.12e5	0.90	NO	1.0234	1.000	53.97	53.96	0.984	0.984	NO	10590		5.46	10590
163	163 PCB-194	3.65e5	0.89	NO	1.1560	1.000	54.89	54.89	1.000	1.000	NO	11050		4.88	11050
164	164 PCB-205	4.87e5	0.91	NO	1.4005	1.000	55.15	55.17	1.005	1.005	NO	12180		4.03	12180
165	165 PCB-208	3.32e5	1.27	NO	0.9343	1.000	54.13	54.13	1.000	1.000	NO	10660		5.93	10660
166	166 PCB-207	3.36e5	1.28	NO	0.9121	1.000	54.45	54.46	1.006	1.006	NO	11040		6.07	11040
167	167 PCB-206	3.09e5	1.30	NO	0.9875	1.000	56.41	56.41	1.000	1.000	NO	10930		8.75	10930
168	168 PCB-209	3.50e5	1.21	NO	0.9426	1.000	57.62	57.64	1.000	1.000	NO	11510		0.930	11510
169	169 13C-PCB-1	1.62e6	3.47	NO	1.0775	1.000	15.66	15.66	0.609	0.609	NO	12300	61.5	11.0	
170	170 13C-PCB-3	1.73e6	3.16	NO	1.0909	1.000	18.32	18.32	0.712	0.712	NO	12990	64.9	10.9	
171	171 13C-PCB-4	1.12e6	1.59	NO	0.6399	1.000	19.67	19.68	0.765	0.766	NO	14350	71.7	6.16	
172	172 13C-PCB-9	1.76e5	1.58	NO	0.9953	1.000	21.51	21.51	0.837	0.837	NO	14500	72.5	3.96	





Dataset: Untitled

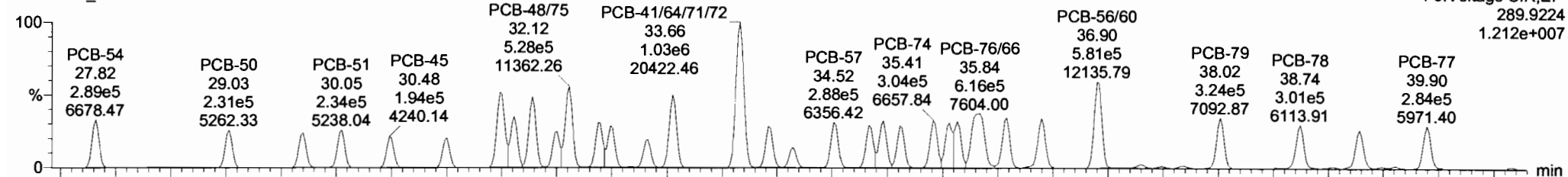
Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time

Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_3, Date: 14-Nov-2019, Time: 18:08:42, ID: B9K0090-BS1 OPR 1, Description: OPR

**PCB-54**

191114K2\_3

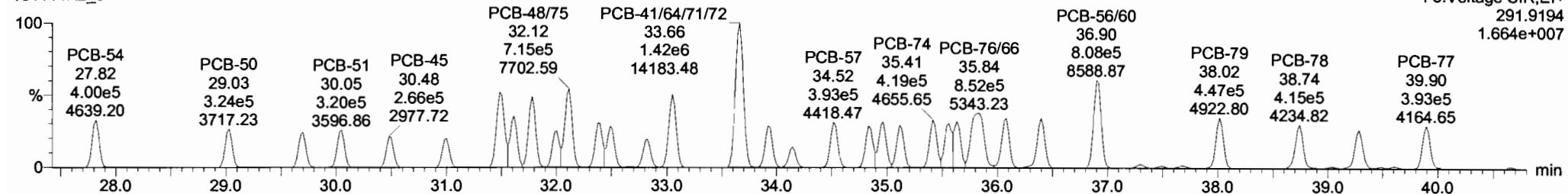


F3:Voltage SIR,EI+

289.9224

1.212e+007

191114K2\_3



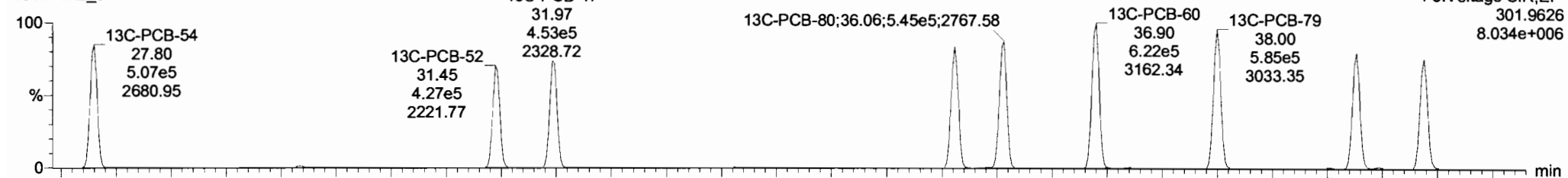
F3:Voltage SIR,EI+

291.9194

1.664e+007

**13C-PCB-54**

191114K2\_3

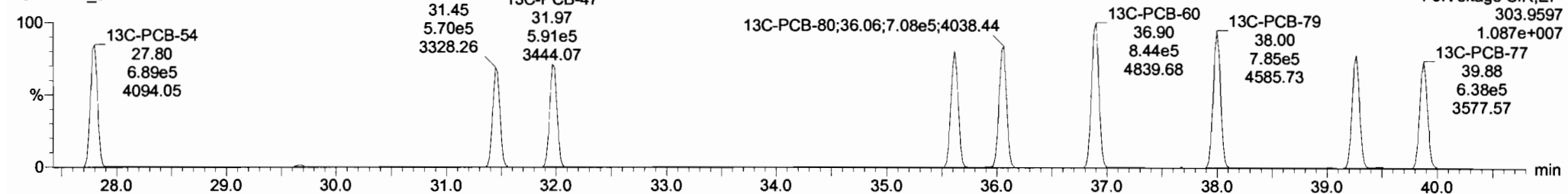


F3:Voltage SIR,EI+

301.9626

8.034e+006

191114K2\_3



F3:Voltage SIR,EI+

303.9597

1.087e+007

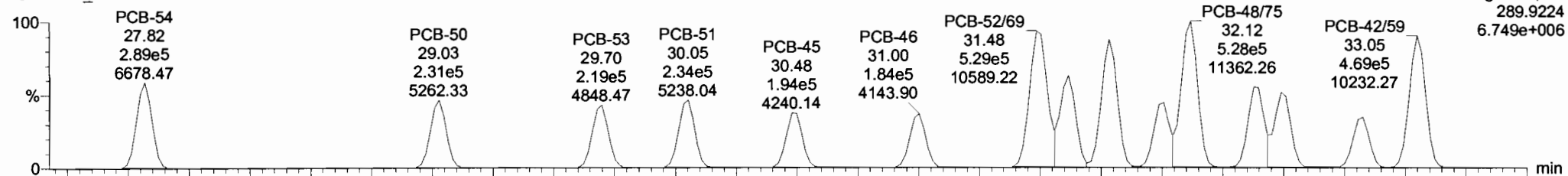
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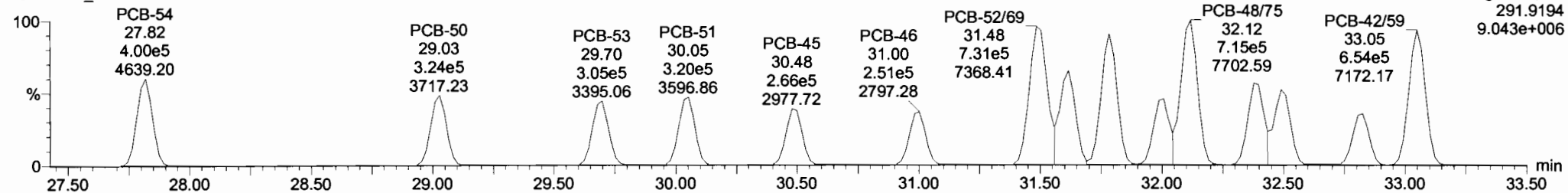
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PCB-50

191114K2\_3

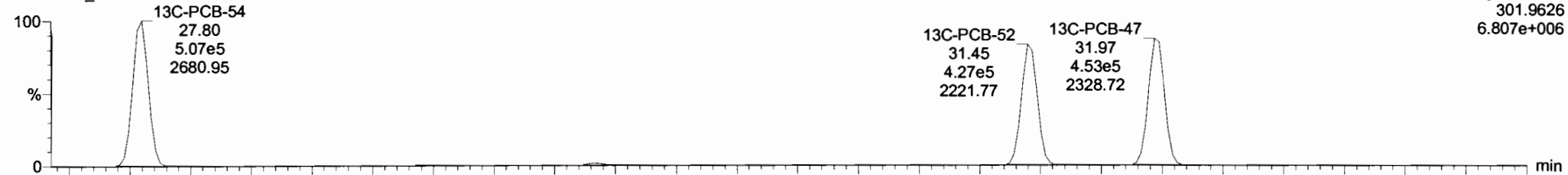


191114K2\_3

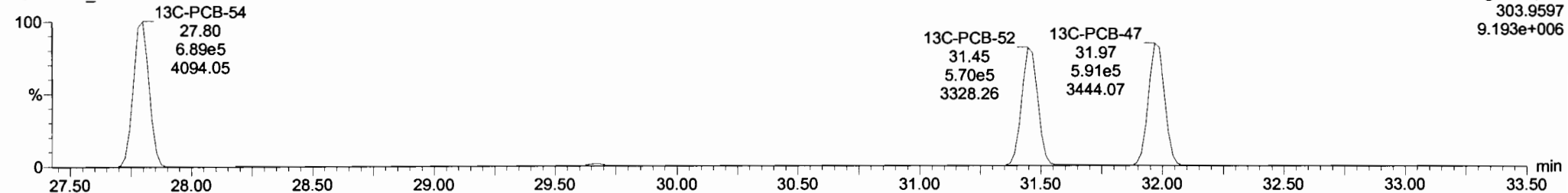


13C-PCB-52

191114K2\_3



191114K2\_3



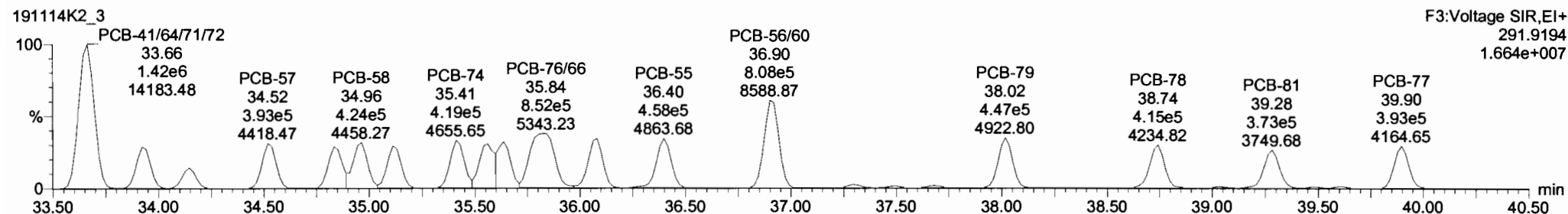
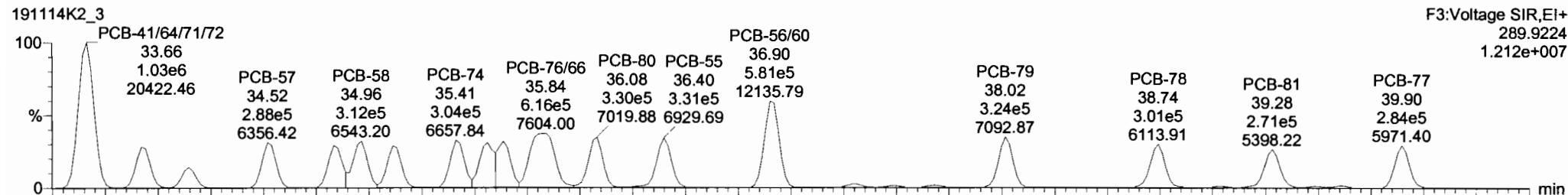
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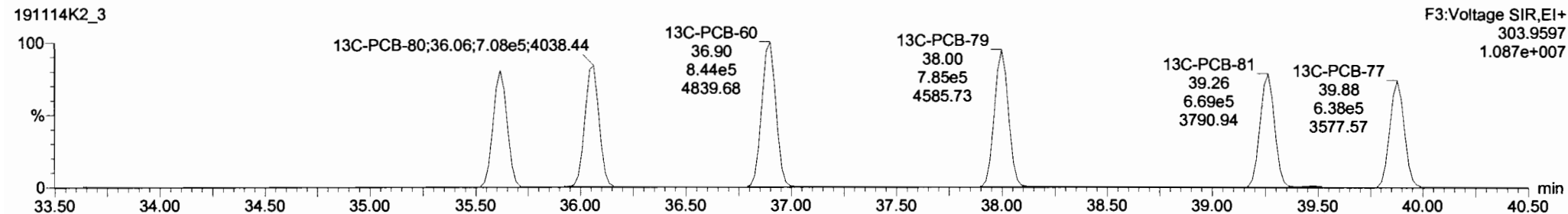
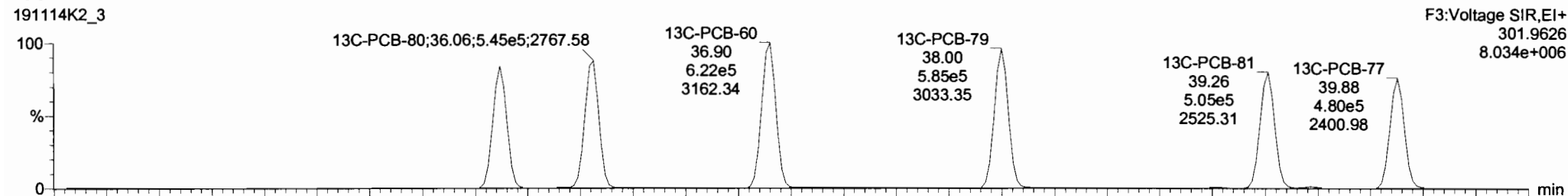
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Name: 191114K2\_3, Date: 14-Nov-2019, Time: 18:08:42, ID: B9K0090-BS1 OPR 1, Description: OPR

PCB-68

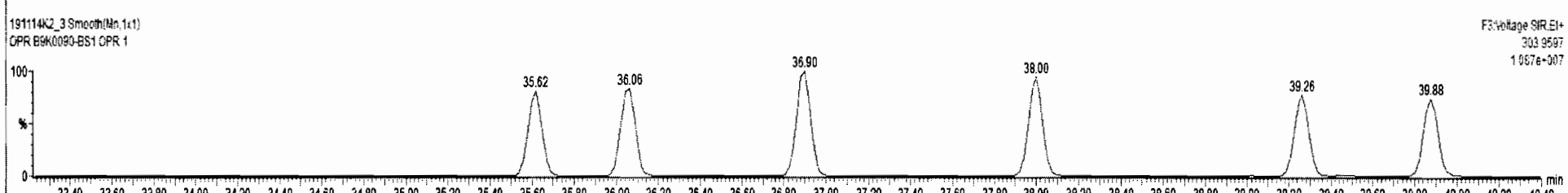
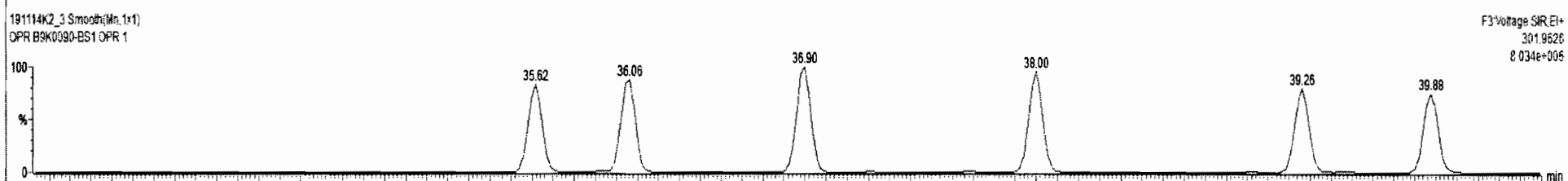
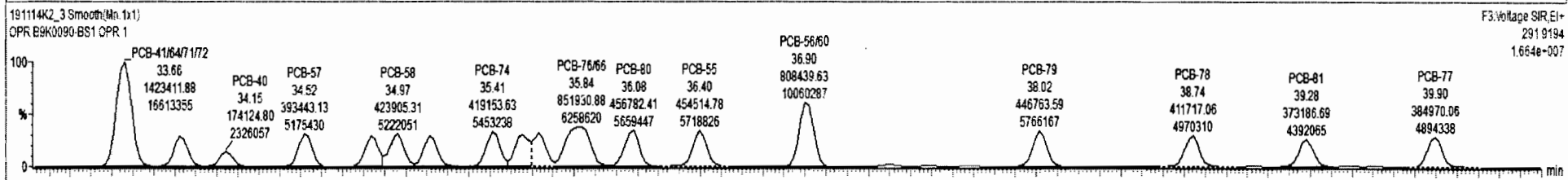
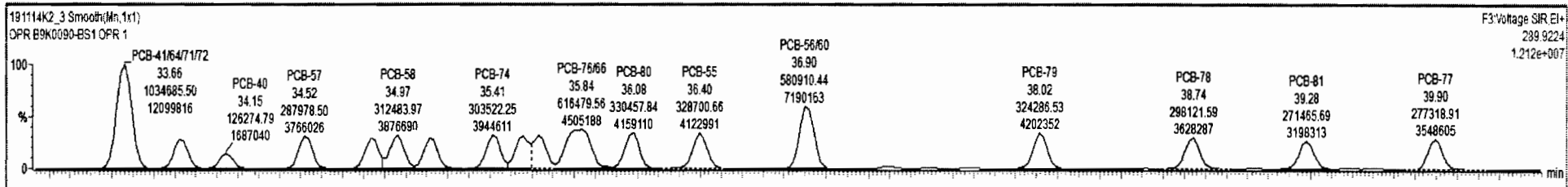


13C-PCB-60



191114K2\_3 - B9K0090-BS1 OPR 1 - OPR

#	Name	Resp	RA	My	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
220	220 13C-PCB-79	1.37e6	0.75	NO	1.0320	1.000	38.03	38.00	1.031	1.030	NO	18110	90.5	9.81	
221	221 13C-PCB-178	4.64e5	0.43	NO	0.8746	1.000	46.10	46.09	0.988	0.988	NO	16640	83.2	9.86	
222	222 13C-PCB-79	1.37e6	0.75	NO	1.0454	1.000	37.99	38.00	0.967	0.968	NO	22320	112	12.3	
223	223 13C-PCB-178	4.64e5	0.43	NO	0.9749	1.000	46.10	46.09	0.924	0.923	NO	20560	163	12.6	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	37600		5.23	37600
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	135700		55.3	135700
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	95630		22.3	95630
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	186700		66.6	186700
228	228 Total Tetra-PCBs				0.8881	1.000	0.00		0.000		NO	478900		143	478900
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	465400		123	465400
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	58630		31.7	58630
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	151500		33.5	151500
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	313700		159	313700



Dataset: Untitled

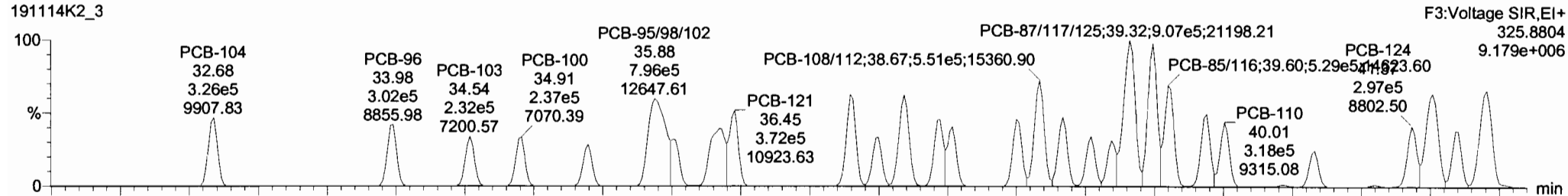
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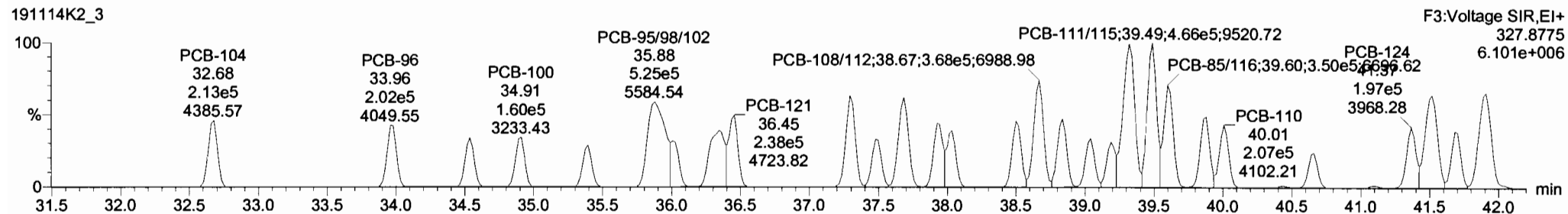
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**PCB-104**

191114K2\_3

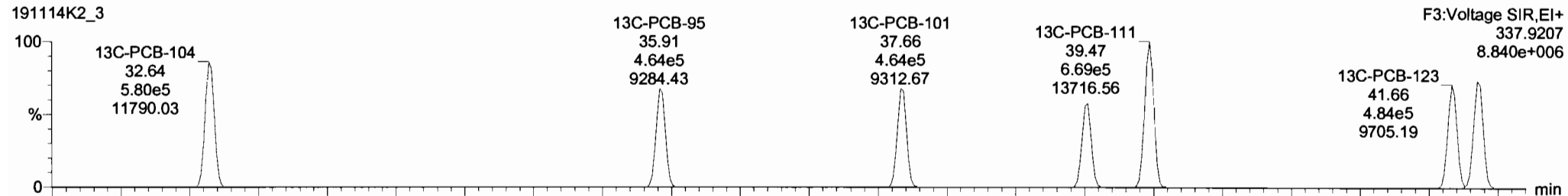


191114K2\_3

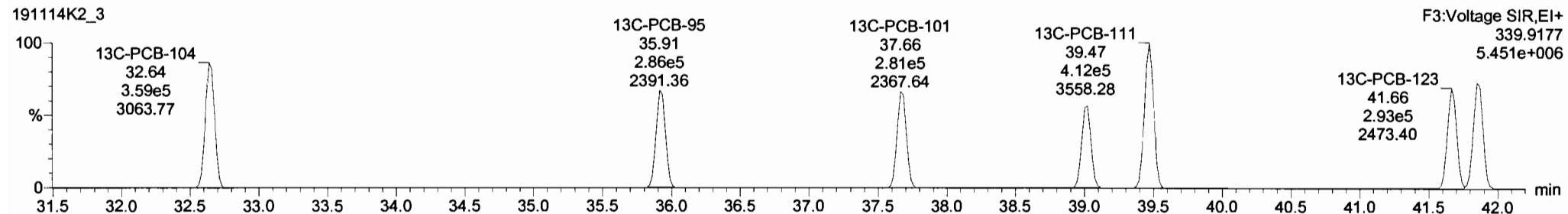


**13C-PCB-104**

191114K2\_3



191114K2\_3



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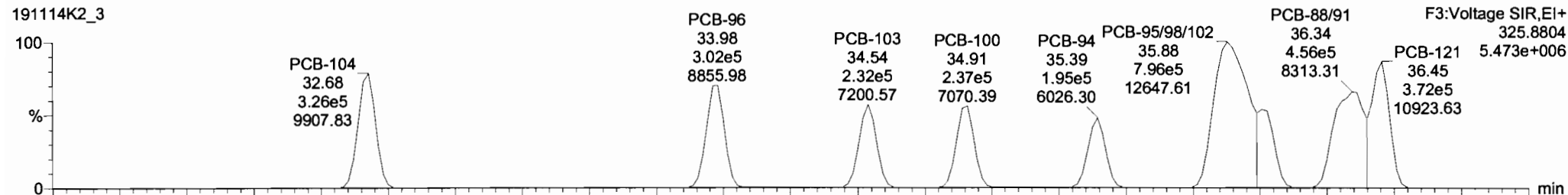
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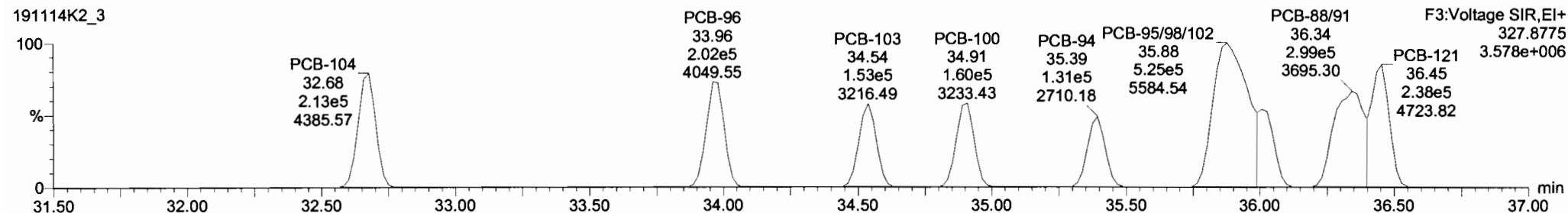
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**PCB-96**

191114K2\_3

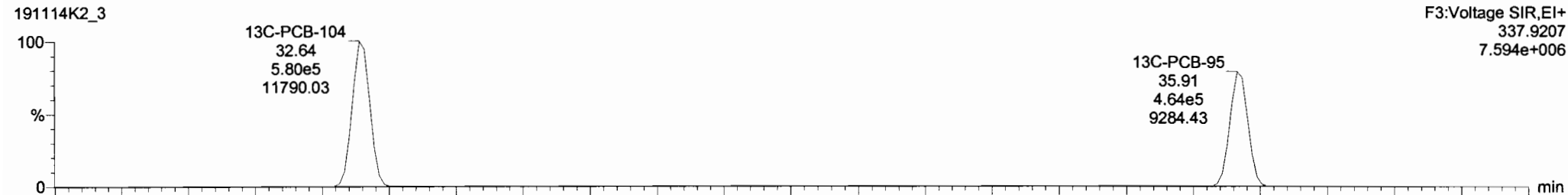


191114K2\_3

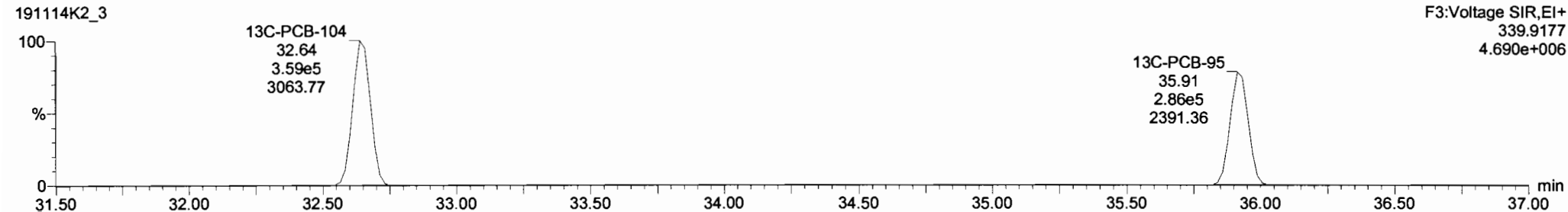


**13C-PCB-95**

191114K2\_3



191114K2\_3



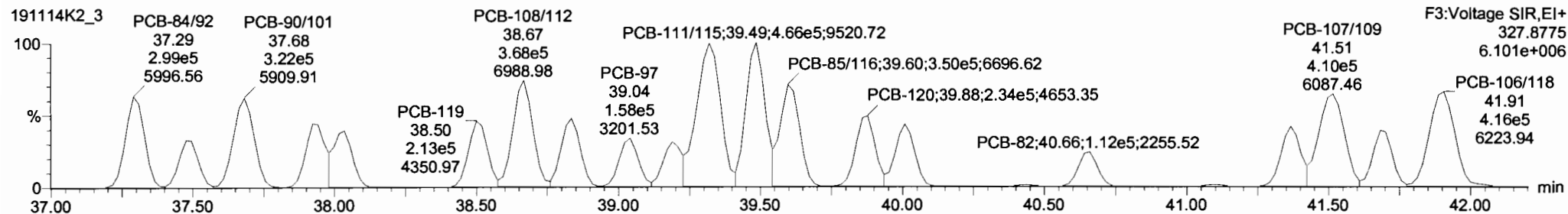
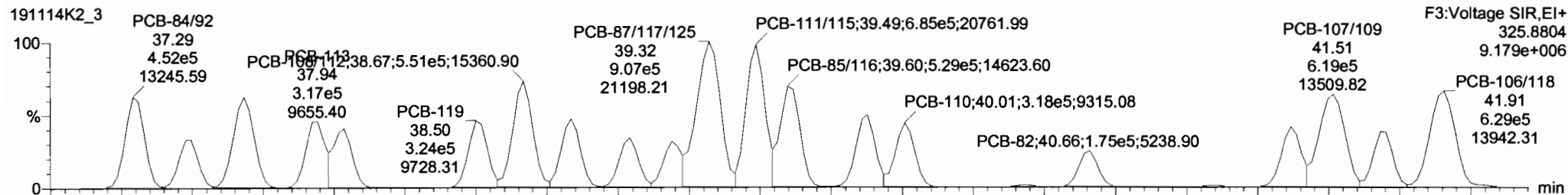
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Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time

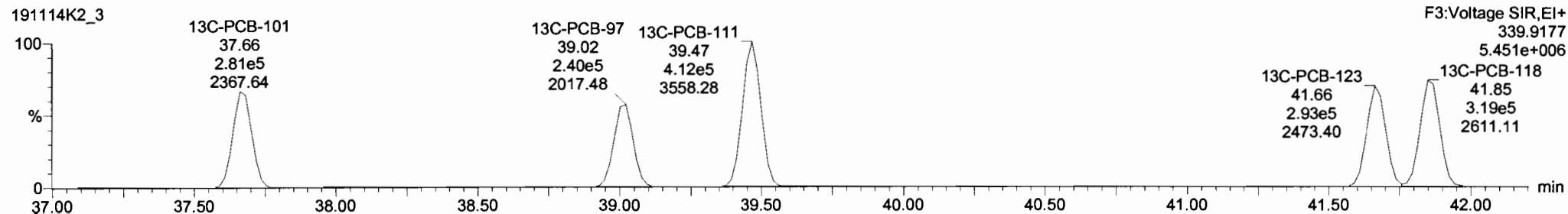
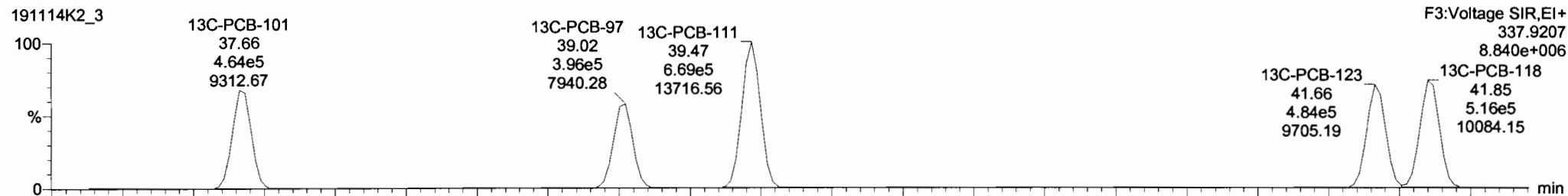
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_3, Date: 14-Nov-2019, Time: 18:08:42, ID: B9K0090-BS1 OPR 1, Description: OPR

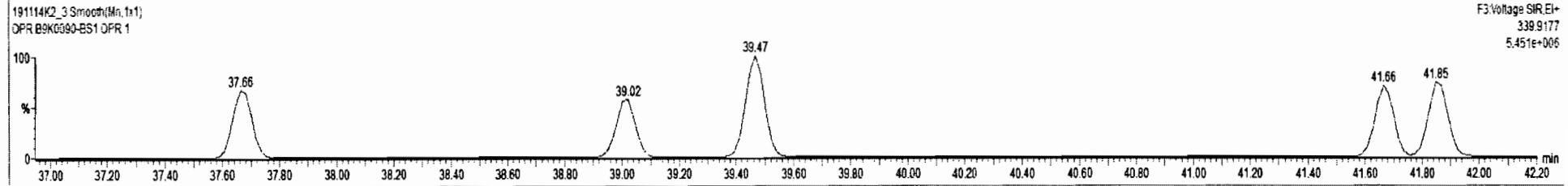
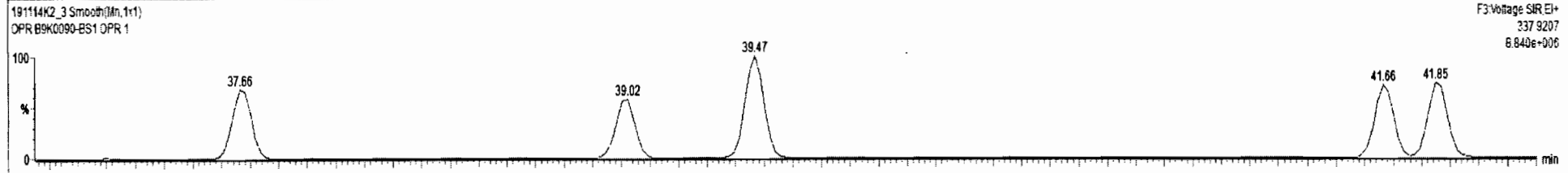
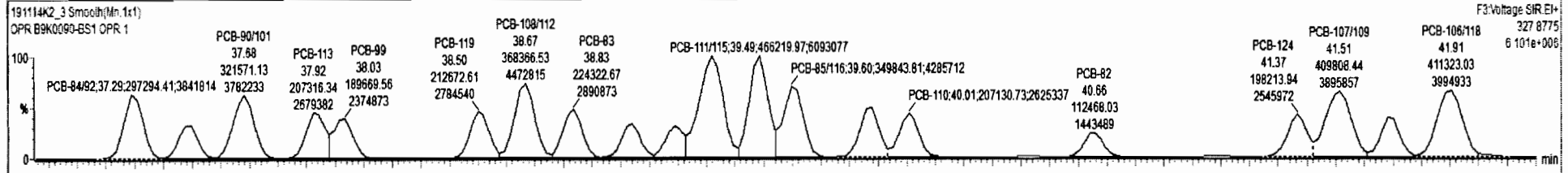
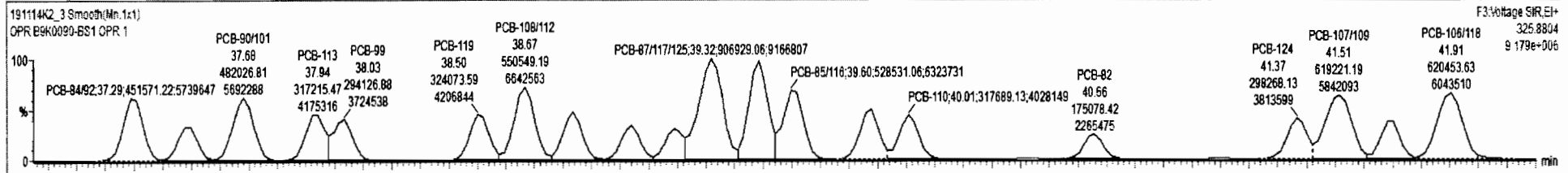
**PCB-119**



**13C-PCB-111**



#	Name	Resp	RA	nly	RRF	rt/rtol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
Z20	13C-PCB-79	1.37e6	0.75	NO	1.0220	1.000	38.03	38.00	1.031	1.020	NO	18110	90.5	9.81	
Z21	221 13C-PCB-178	4.64e5	0.43	NO	0.6746	1.000	46.10	46.09	0.988	0.988	NO	16640	83.2	9.86	
Z22	222 13C-PCB-79	1.37e6	0.75	NO	1.0454	1.000	37.99	38.00	0.967	0.968	NO	22320	112	12.3	
Z23	223 13C-PCB-178	4.64e5	0.43	NO	0.9749	1.000	46.10	46.09	0.924	0.923	NO	20560	103	12.6	
Z24	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	37600		5.23	37600
Z25	Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	135700		55.3	135700
Z26	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	95630		22.3	95630
Z27	3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	186700		66.6	186700
Z28	Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	478900		163	478900
Z29	3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	465100		123	465100
Z30	4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	58630		31.7	58630
Z31	3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	151500		33.5	151500
Z32	4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	313700		159	313700





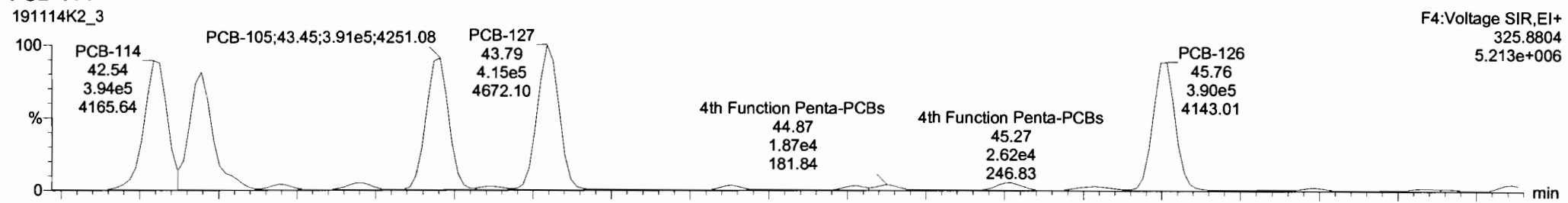
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Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time

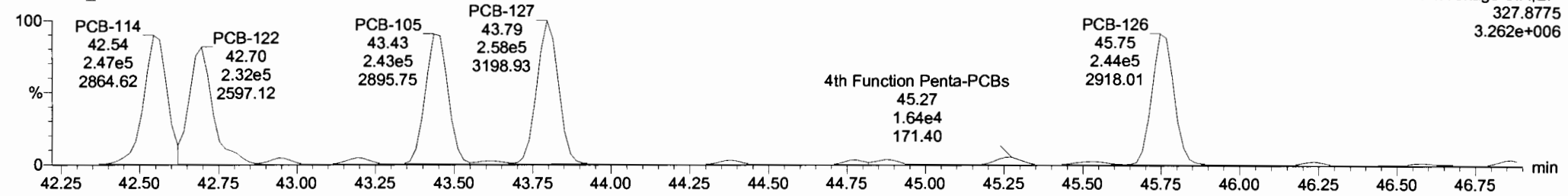
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_3, Date: 14-Nov-2019, Time: 18:08:42, ID: B9K0090-BS1 OPR 1, Description: OPR

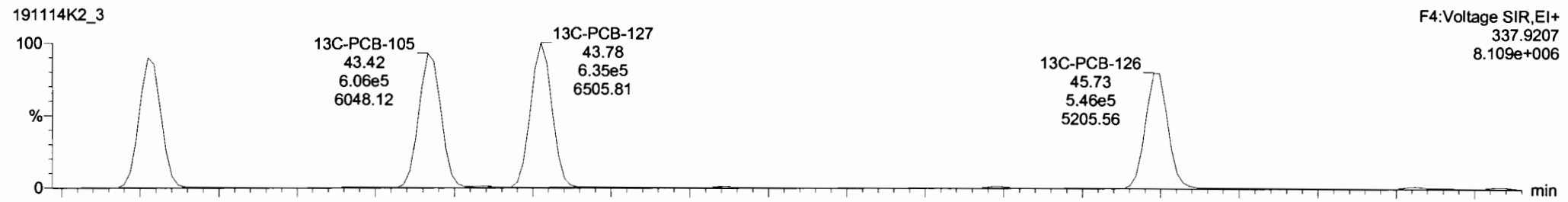
**PCB-114**



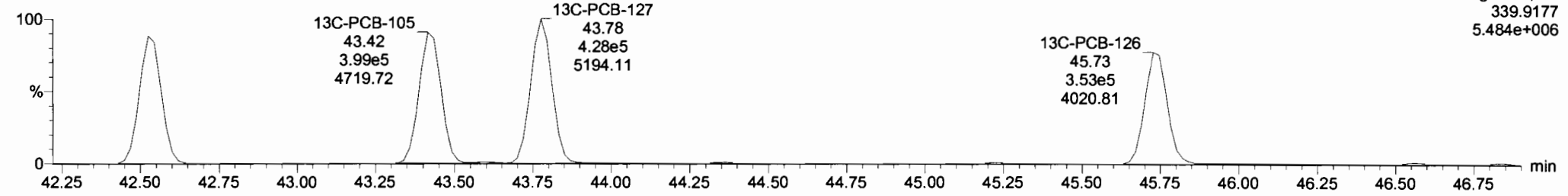
191114K2\_3



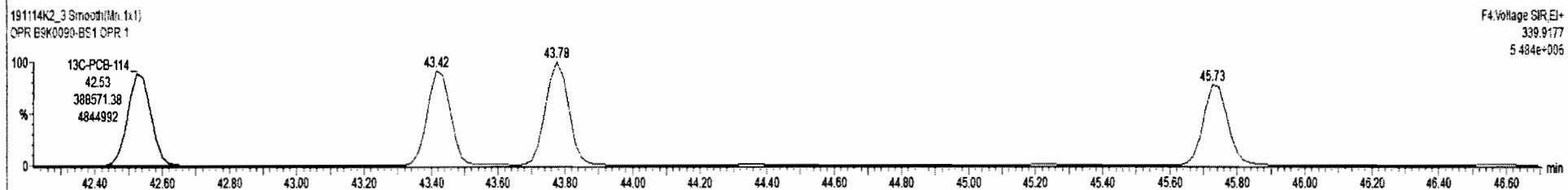
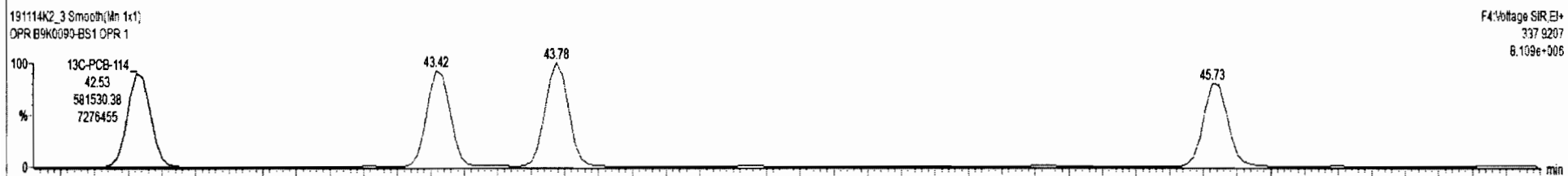
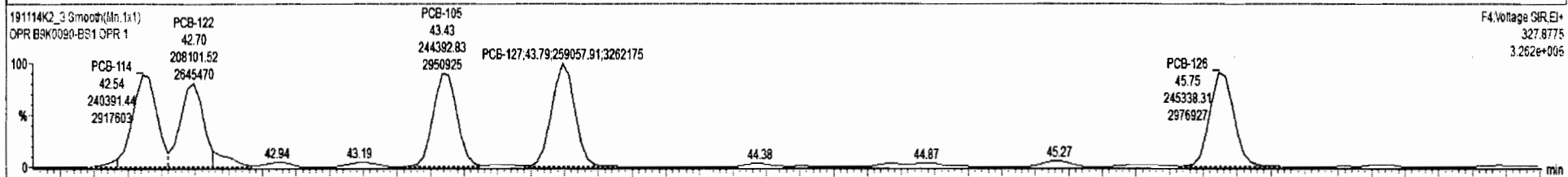
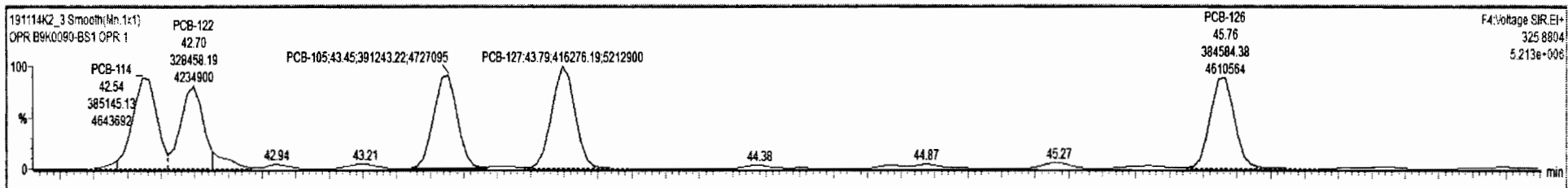
**13C-PCB-114**



191114K2\_3



#	Name	Resp	RA	nly	RRF	wtvol	Pred.RT	RT	Pred.R.	RRT	RRT Fnd	Conc.	%Rec	DL	EMPC
220	13C-PCB-79	1.37e6	0.75	NO	1.0320	1.000	38.03	38.00	1.031	1.030	NO	18110	90.5	9.81	
221	13C-PCB-178	4.64e5	0.43	NO	0.8746	1.000	46.10	46.09	0.988	0.988	NO	16640	83.2	9.86	
222	13C-PCB-79	1.37e6	0.75	NO	1.0454	1.000	37.99	38.00	0.967	0.968	NO	22320	112	12.3	
223	13C-PCB-178	4.64e5	0.43	NO	0.9749	1.000	46.10	46.09	0.924	0.923	NO	20560	103	12.6	
224	Total Mono-PCBs				1.0122	1.000	0.000				NO	37600	0.00	5.23	37600
225	Total Di-PCBs				1.0592	1.000	0.000				NO	135700	0.00	55.3	135700
226	2nd Function Tri-PCBs				0.9137	1.000	0.000				NO	95630	0.00	22.3	95630
227	3rd Function Tri-PCBs				1.0563	1.000	0.000				NO	186700	0.00	66.6	186700
228	Total Tetra-PCBs				0.9861	1.000	0.000				NO	476900	0.00	163	476900
229	3rd Function Penta-PCBs				1.1154	1.000	0.000				NO	465100	0.00	123	465100
230	4th Function Penta-PCBs				1.1112	1.000	0.000				NO	56990	0.00	31.7	56990
231	3rd Function Hexa-PCBs				0.7739	1.000	0.000				NO	151500	0.00	33.5	151500
232	4th Function Hexa-PCBs				0.9719	1.000	0.000				NO	313700	0.00	159	313700



Vista Analytical Laboratory VG-11

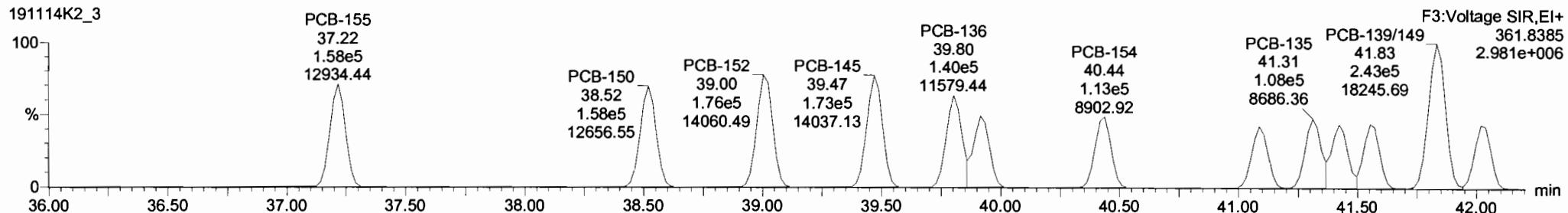
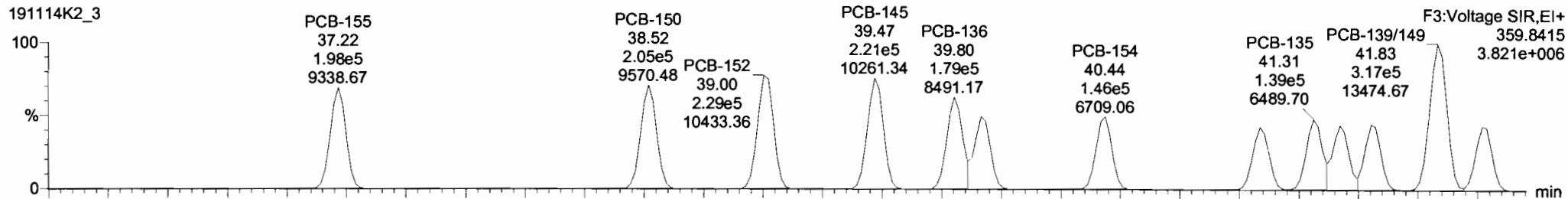
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Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time

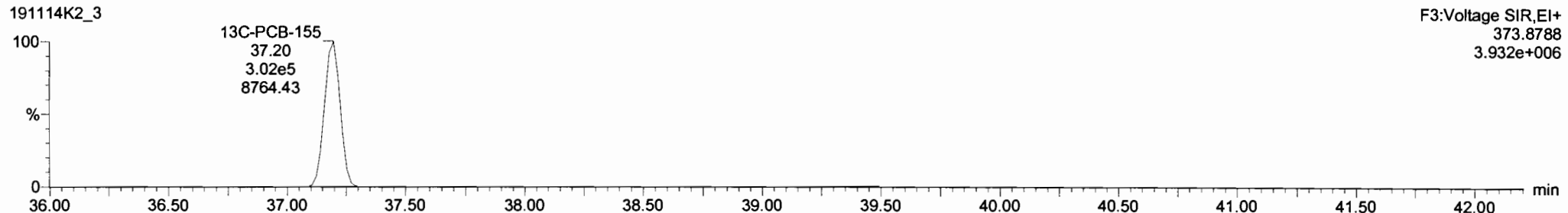
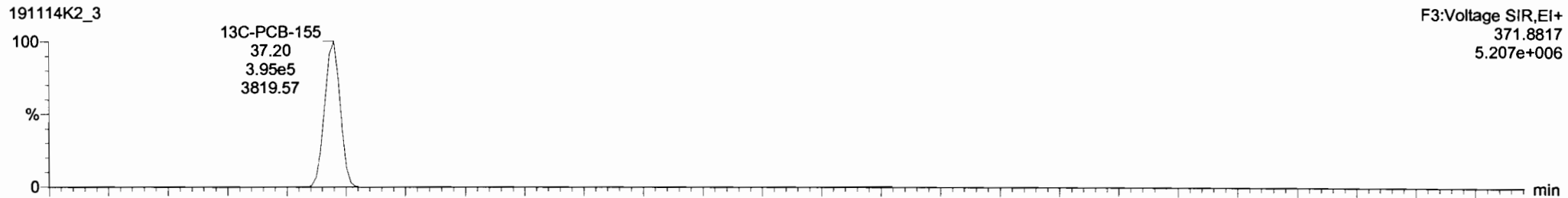
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_3, Date: 14-Nov-2019, Time: 18:08:42, ID: B9K0090-BS1 OPR 1, Description: OPR

PCB-155



13C-PCB-155

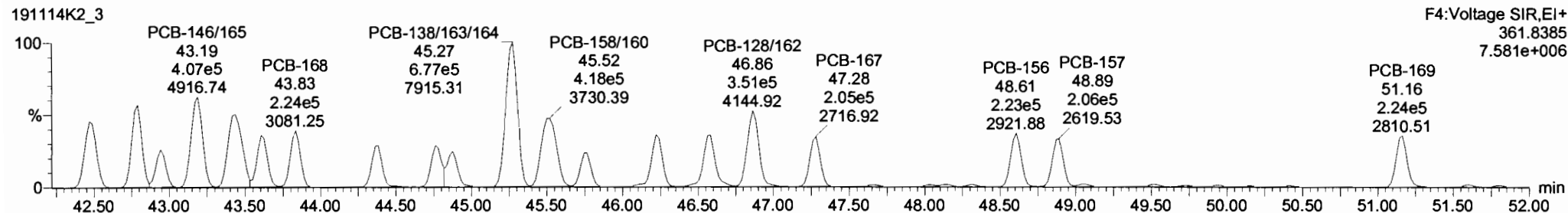
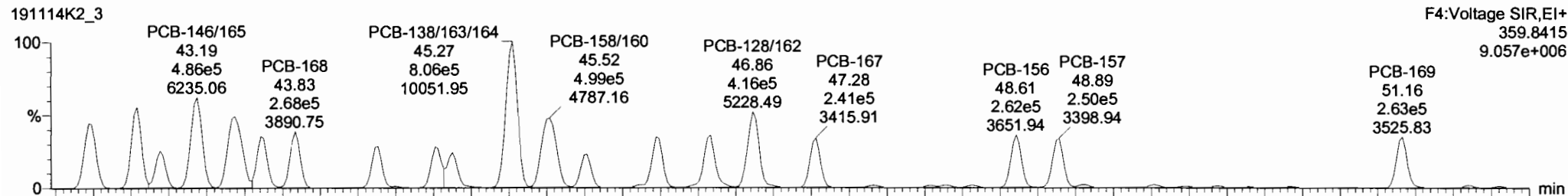


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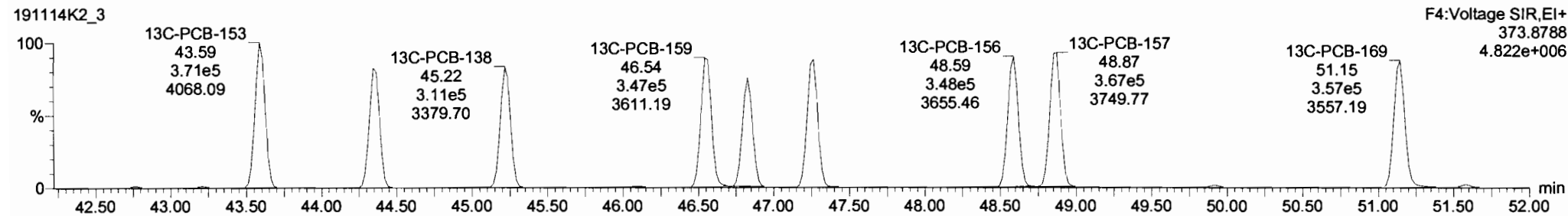
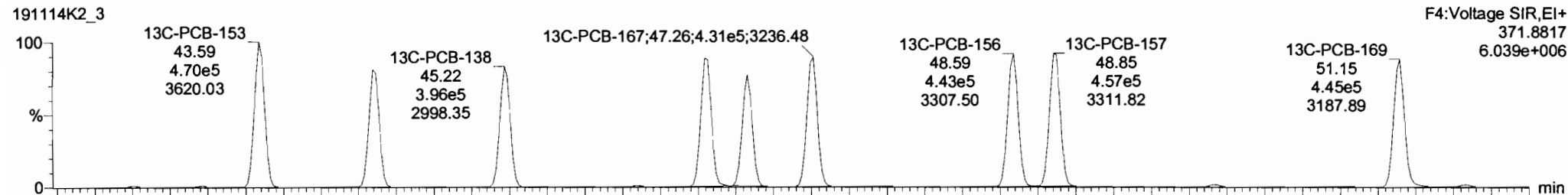
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Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_3, Date: 14-Nov-2019, Time: 18:08:42, ID: B9K0090-BS1 OPR 1, Description: OPR

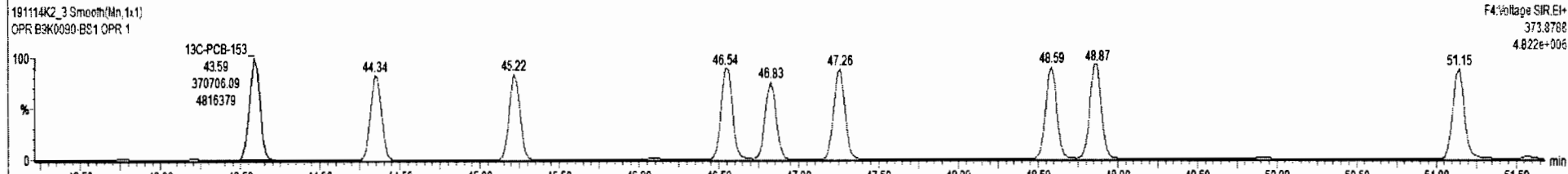
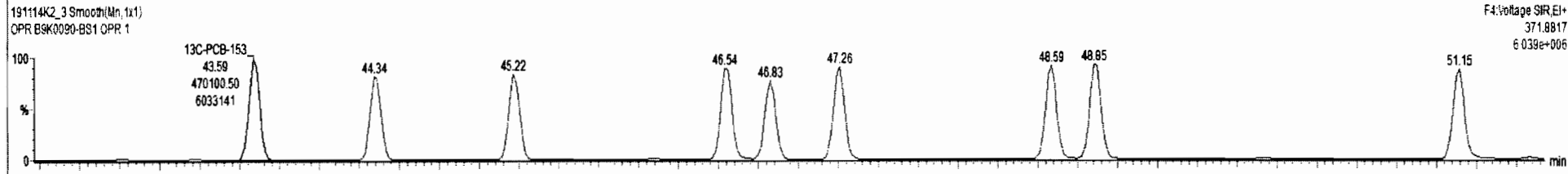
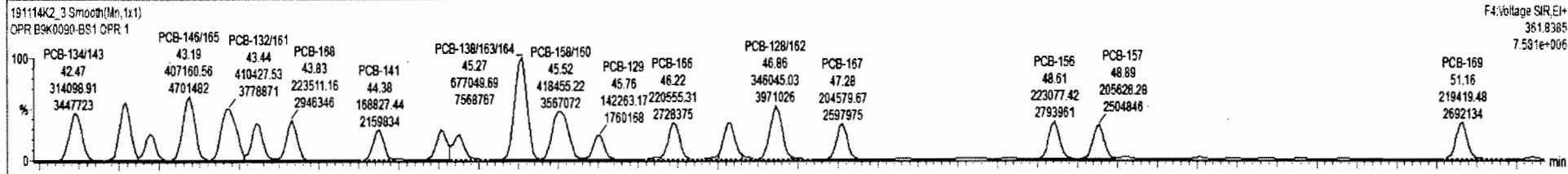
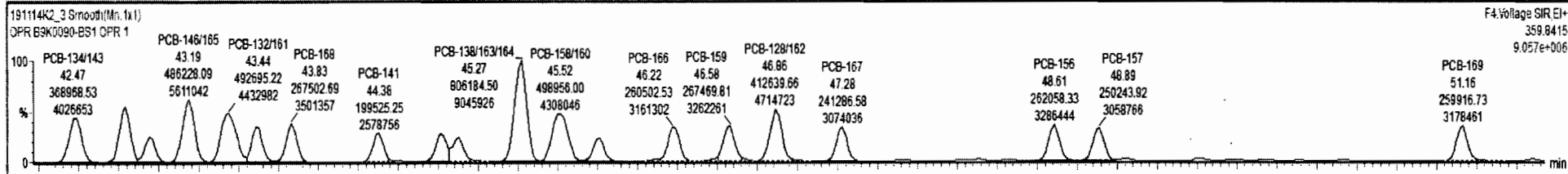
PCB-134/143



13C-PCB-153



#	Name	Resp	RA	aly	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	RRT Fnd	Conc.	%Rec	DL	EMPC
220	13C-PCB-79	1.37e6	0.75	NO	1.0320	1.000	38.03	38.00	1.031	1.030	NO	18110	90.5	5.81	
221	13C-PCB-178	4.64e5	0.43	NO	0.8746	1.000	46.10	46.09	0.988	0.988	NO	16640	83.2	9.86	
222	13C-PCB-79	1.37e6	0.75	NO	1.0454	1.000	37.99	38.00	0.967	0.968	NO	22320	112	12.3	
223	13C-PCB-178	4.64e5	0.43	NO	0.9749	1.000	46.10	46.09	0.924	0.923	NO	20560	103	12.6	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	37600		5.23	37600
225	Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	135700		55.3	135700
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	95630		22.3	95630
227	3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	186700		66.6	186700
228	Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	476900		163	476900
229	3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	465100		123	465100
230	4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	56990		31.7	56990
231	3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	151500		33.5	151500
232	4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	311300		158	311300



Dataset: Untitled

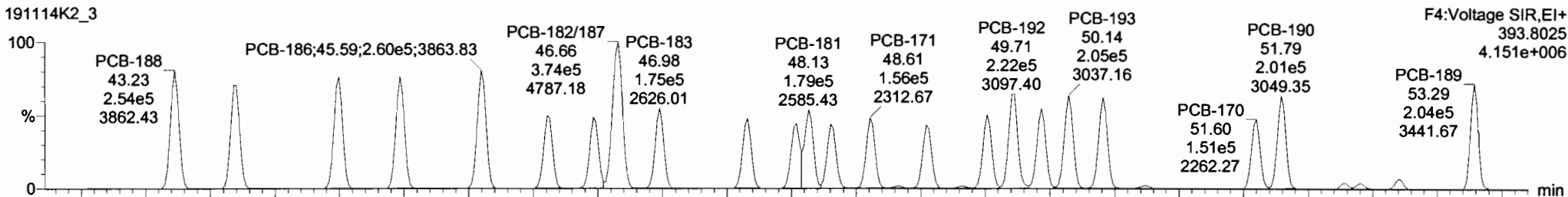
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Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

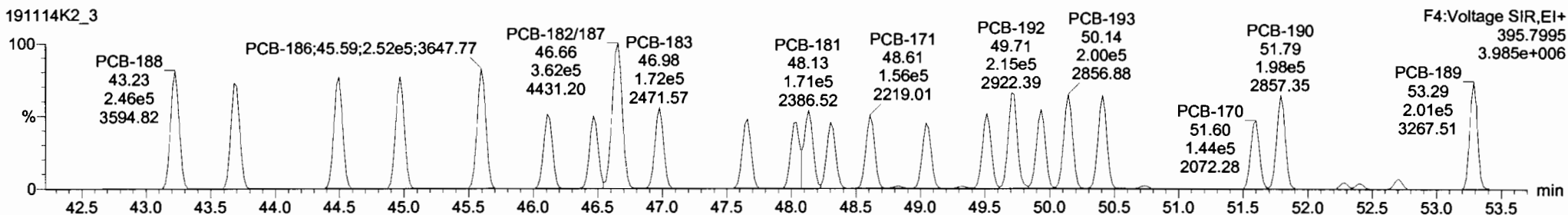
Name: 191114K2\_3, Date: 14-Nov-2019, Time: 18:08:42, ID: B9K0090-BS1 OPR 1, Description: OPR

**PCB-188**

191114K2\_3

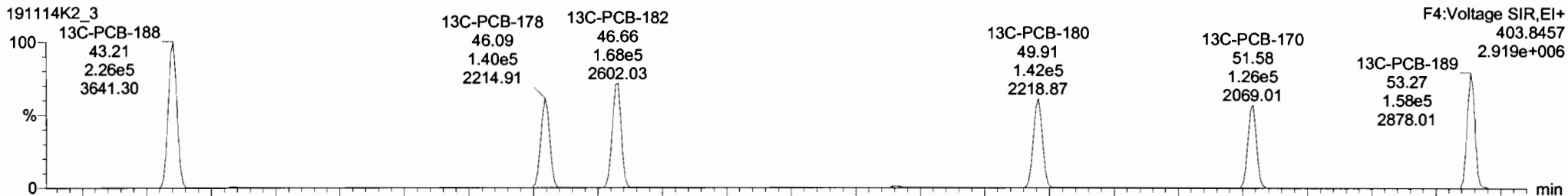


191114K2\_3

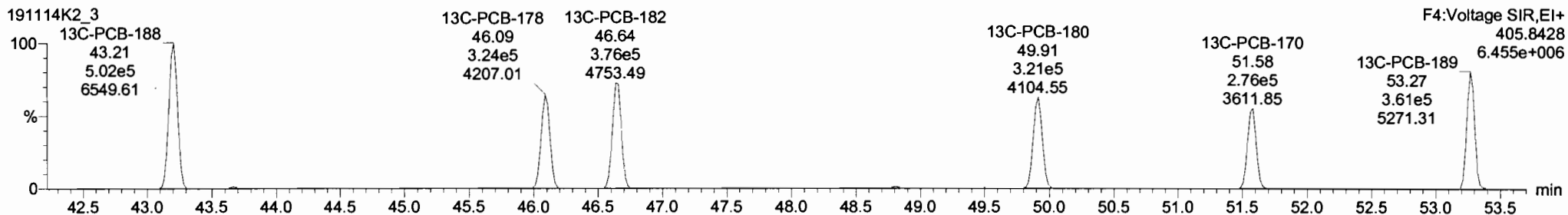


**13C-PCB-188**

191114K2\_3



191114K2\_3



Dataset: Untitled

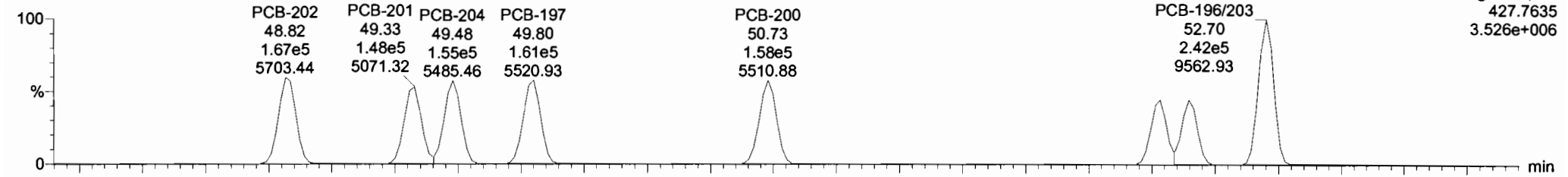
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Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

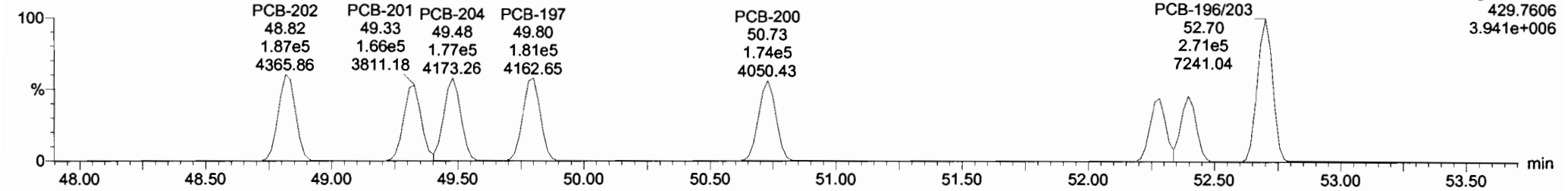
Name: 191114K2\_3, Date: 14-Nov-2019, Time: 18:08:42, ID: B9K0090-BS1 OPR 1, Description: OPR

**PCB-202**

191114K2\_3

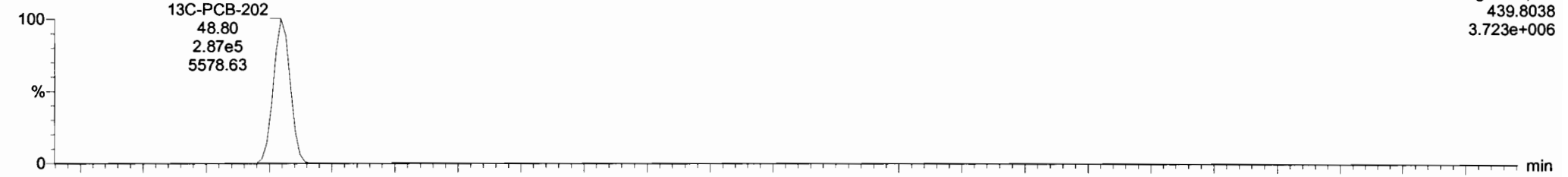


191114K2\_3

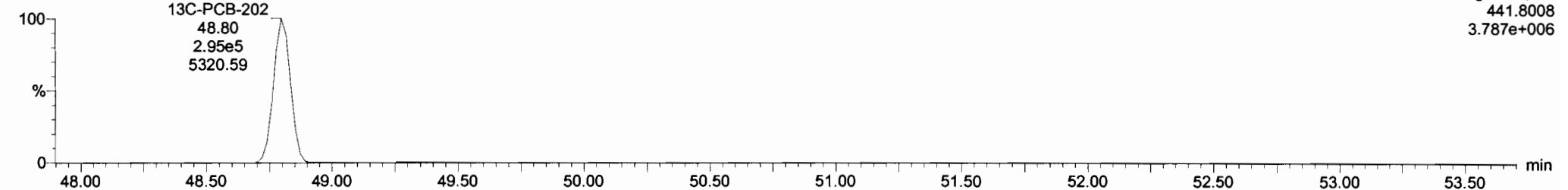


**13C-PCB-202**

191114K2\_3



191114K2\_3

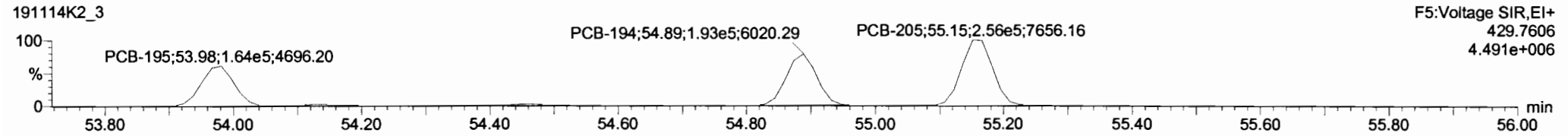
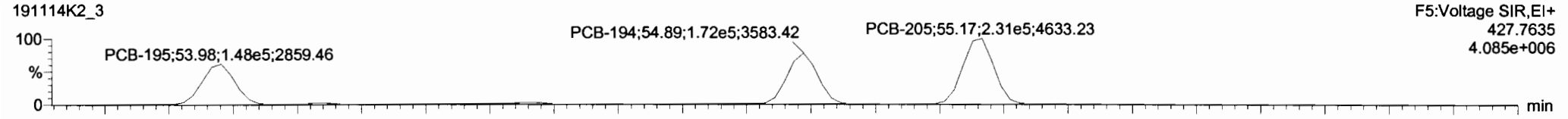


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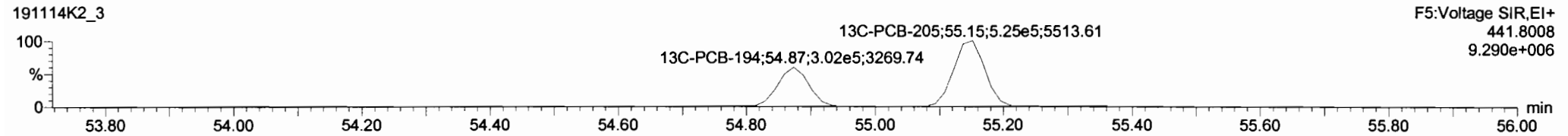
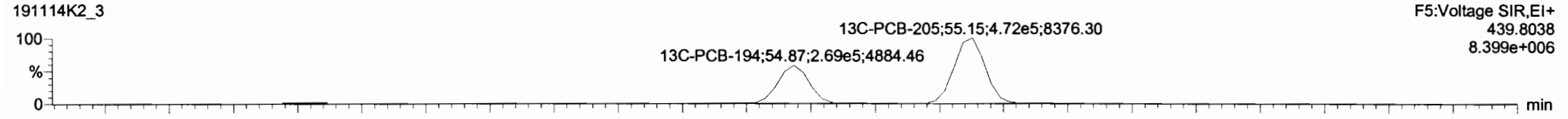
Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_3, Date: 14-Nov-2019, Time: 18:08:42, ID: B9K0090-BS1 OPR 1, Description: OPR

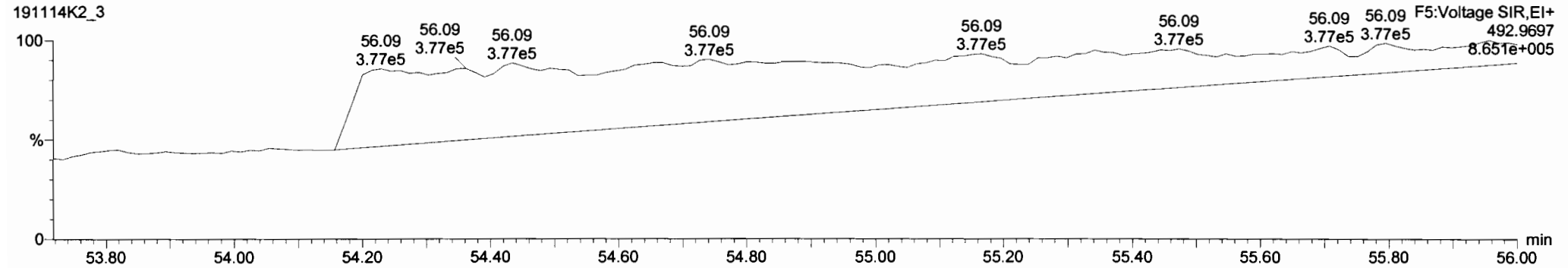
**PCB-195**



**13C-PCB-194**



**PFK5**

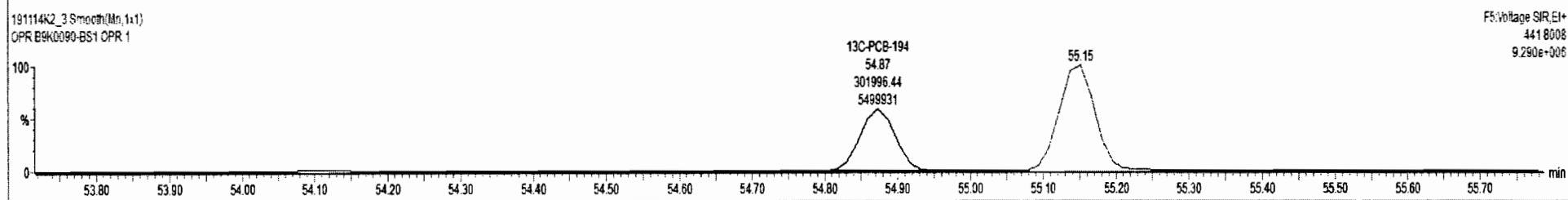
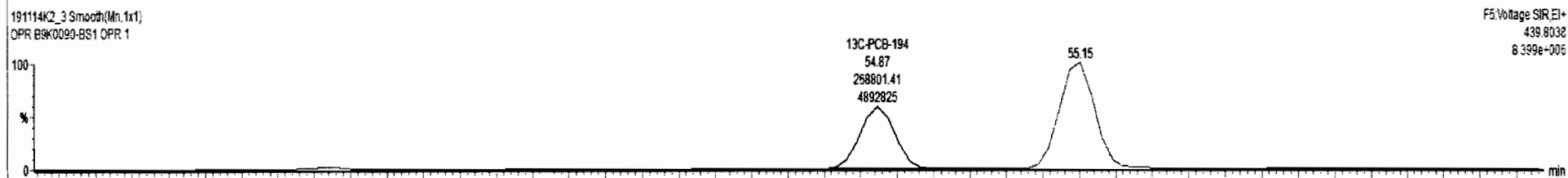
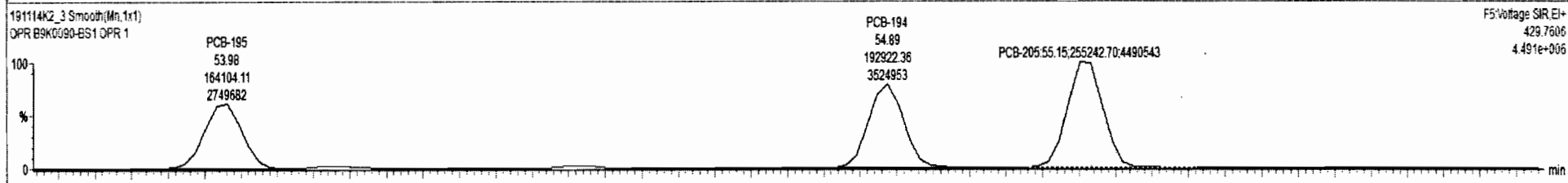
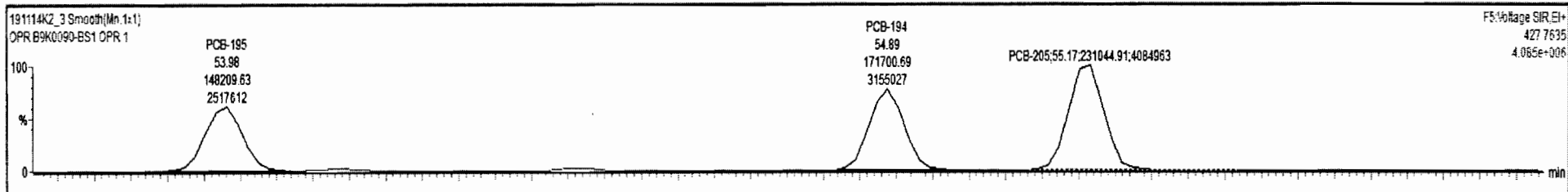






191114K2\_3 - B9K0090-BS1 OPR 1 - OPR

#	Name	Resp	RA	nlv	RRF	wtVol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
234	234 4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	104400	0.00	44.4	104400
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	33810	0.00	14.4	33810
236	236 Total Nona-PCBs				0.9446	1.000	0.00		0.000		NO	32630	0.00	16.8	32630
237	237 Deca-CB				0.9426	1.000	0.00		0.000		NO	11510	0.00	0.930	11510
238	238 Total PCBs														
239	239 Total Mono-isotopes														
240	240 Total Di-isotopes														
241	241 2nd Function Tri-isotopes														
242	242 3rd Function Tri-isotopes														
243	243 Tetra-isotopes				0.9649	1.000	0.00		1.000		NO	149500	0.00	93.0	0.0000
244	244 3rd Function Penta-isotopes				0.9096	1.000	0.00		0.000		NO	117200	0.00	47.8	0.0000
245	245 4th Function Penta-isotopes				1.5424	1.000	0.00		0.000		NO	79990	0.00	28.8	0.0000
246	246 4th Function Hexa-isotopes				1.3060	1.000	0.00		0.000		NO	165400	0.00	96.3	0.0000

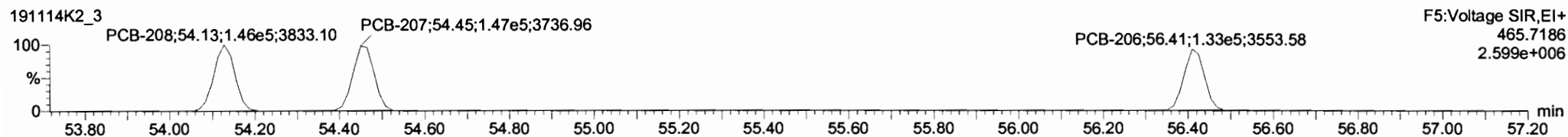
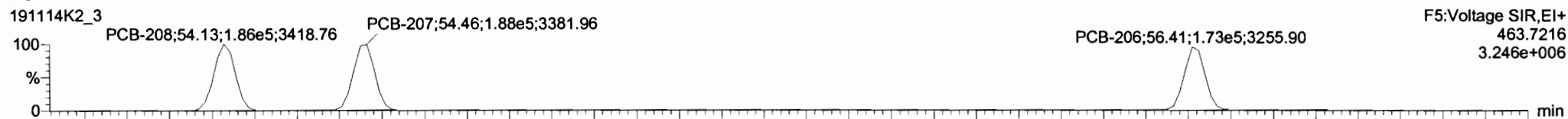


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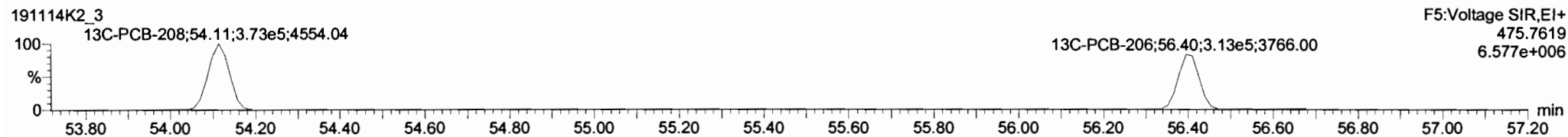
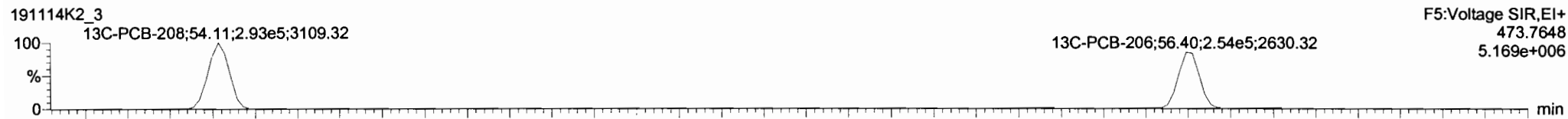
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Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_3, Date: 14-Nov-2019, Time: 18:08:42, ID: B9K0090-BS1 OPR 1, Description: OPR

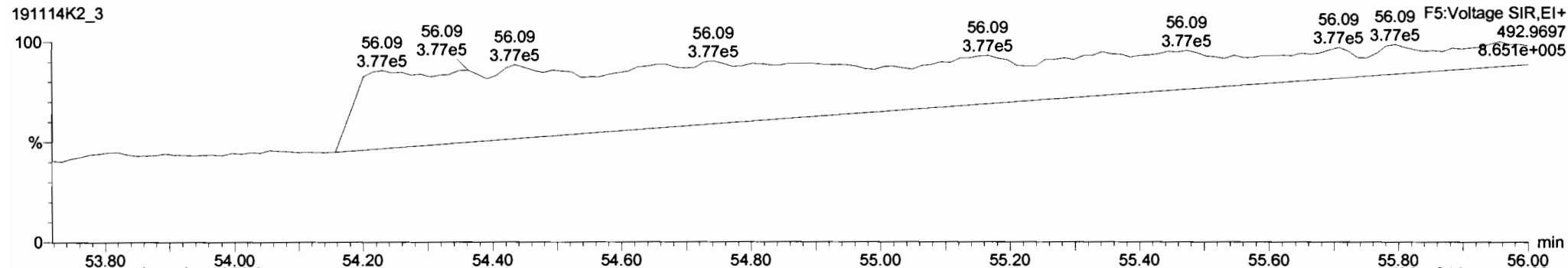
**PCB-208**



**13C-PCB-208**



**PFK5**



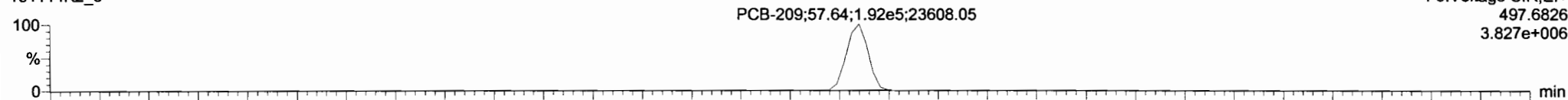
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Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

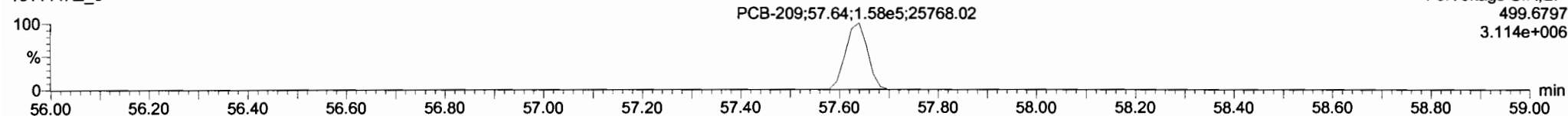
Name: 191114K2\_3, Date: 14-Nov-2019, Time: 18:08:42, ID: B9K0090-BS1 OPR 1, Description: OPR

**PCB-209**

191114K2\_3

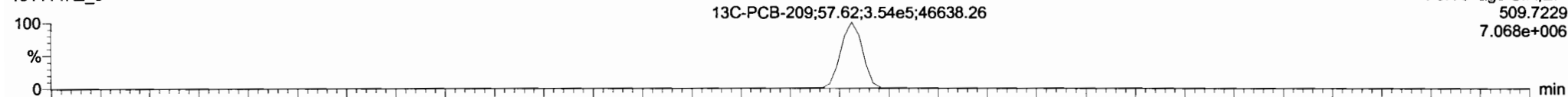


191114K2\_3

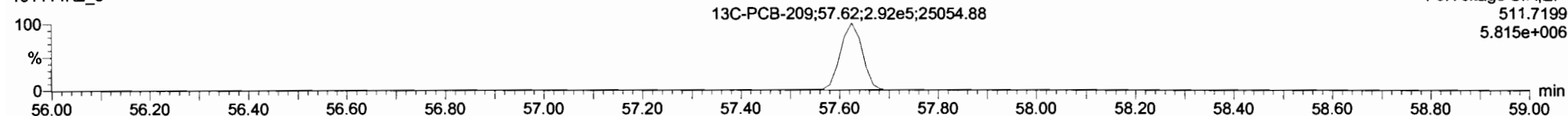


**13C-PCB-209**

191114K2\_3

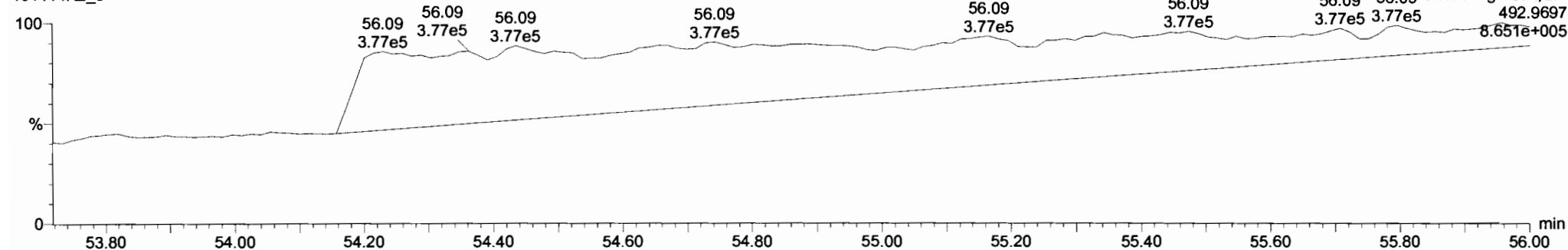


191114K2\_3



**PFK5**

191114K2\_3



Dataset: U:\VG11.PRO\Results\191107K2\191107K2-5.qld

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*HZ* 11-10-19 *CJ* 12-20  
*04/07*

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-04-19.mdb 05 Nov 2019 14:32:48

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	5.87e2	3.58	NO	1.02	5.010	15.69	15.69	1.001	1.001	NO	1.940		0.256	1.940
2	2 PCB-2	3.16e2	2.38	YES	1.01	5.010	18.12	18.12	0.988	0.988	NO	0.9503		0.252	0.8831
3	3 PCB-3	8.63e2	3.25	NO	1.01	5.010	18.35	18.36	1.001	1.001	NO	2.599		0.253	2.599
4	4 PCB-4/10			NO	1.28	5.010	19.77		1.004		YES			2.20	
5	5 PCB-7/9			NO	0.976	5.010	21.59		1.003		YES			1.73	
6	6 PCB-6			NO	1.02	5.010	22.24		1.033		YES			1.66	
7	7 PCB-5/8	3.86e3	1.44	NO	1.01	5.010	22.65	22.64	1.052	1.052	NO	11.95		1.67	11.95
8	8 PCB-14			NO	1.03	5.010	23.80		0.952		YES			1.50	
9	9 PCB-11			NO	1.10	5.010	25.03		1.001		YES			1.41	
10	10 PCB-12/13			NO	1.04	5.010	25.46		1.018		YES			1.49	
11	11 PCB-15	1.00e4	1.69	NO	1.03	5.010	25.76	25.75	1.030	1.030	NO	27.20		1.51	27.20
12	12 PCB-19	6.97e2	1.16	NO	0.934	5.010	23.99	23.99	1.001	1.001	NO	3.194		0.528	3.194
13	13 PCB-30			NO	1.48	5.010	24.91		1.040		YES			0.333	
14	14 PCB-18	1.52e4	1.02	NO	0.693	5.010	25.64	25.67	0.951	0.952	NO	58.80		0.443	58.80
15	15 PCB-17	8.17e3	0.94	NO	0.667	5.010	25.83	25.85	0.958	0.959	NO	32.86		0.460	32.86
16	16 PCB-24/27	1.66e3	1.00	NO	0.915	5.010	26.45	26.42	0.981	0.980	NO	4.873		0.336	4.873
17	17 PCB-16/32	1.24e4	1.01	NO	0.792	5.010	26.98	26.98	1.001	1.001	NO	42.14		0.388	42.14
18	18 PCB-34	1.09e3	0.92	NO	0.987	5.010	27.78	27.78	0.959	0.959	NO	3.529		0.626	3.529
19	19 PCB-23			NO	0.974	5.010	27.88		0.962		YES			0.635	
20	20 PCB-29			NO	0.953	5.010	28.11		0.970		YES			0.648	
21	21 PCB-26	9.45e3	1.11	NO	1.00	5.010	28.36	28.36	0.979	0.979	NO	30.16		0.618	30.16
22	22 PCB-25	7.29e3	1.01	NO	0.978	5.010	28.51	28.53	0.984	0.985	NO	23.81		0.632	23.81
23	23 PCB-31	5.46e4	1.02	NO	1.12	5.010	28.90	28.90	0.998	0.997	NO	155.3		0.550	155.3
24	24 PCB-28	7.14e4	1.09	NO	1.11	5.010	28.99	29.01	1.001	1.001	NO	206.3		0.559	206.3
25	25 PCB-20/21/33	2.36e4	1.00	NO	1.00	5.010	29.64	29.66	1.023	1.024	NO	74.99		0.616	74.99
26	26 PCB-22	1.51e4	1.00	NO	1.03	5.010	30.12	30.09	1.039	1.039	NO	46.74		0.599	46.74
27	27 PCB-36			NO	1.18	5.010	30.70		0.930		YES			0.514	
28	28 PCB-39	6.28e2	1.15	NO	1.08	5.010	31.19	31.22	0.945	0.946	NO	1.751		0.558	1.751
29	29 PCB-38	9.14e2	1.12	NO	1.13	5.010	32.00	32.04	0.970	0.971	NO	2.450		0.536	2.450
30	30 PCB-35	1.61e3	0.90	NO	1.13	5.010	32.55	32.58	0.987	0.988	NO	4.306		0.534	4.306
31	31 PCB-37	2.74e4	1.07	NO	1.11	5.010	33.03	33.01	1.001	1.001	NO	74.93		0.547	74.93
32	32 PCB-54	1.92e2	0.60	YES	0.996	5.010	27.84	27.86	1.001	1.001	NO	0.6482		0.301	0.5584

Dataset: U:\VG11.PRO\Results\191107K2\191107K2-5.qld

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Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50	2.23e2	1.66	YES	0.781	5.010	29.08	29.07	1.045	1.045	NO	0.9879		0.460	0.6385
34	34 PCB-53	8.34e3	0.75	NO	0.955	5.010	29.71	29.72	0.943	0.944	NO	34.32		0.448	34.32
35	35 PCB-51	3.37e3	0.77	NO	1.02	5.010	30.06	30.07	0.955	0.955	NO	12.94		0.418	12.94
36	36 PCB-45	6.78e3	0.74	NO	0.808	5.010	30.49	30.52	0.969	0.969	NO	32.96		0.530	32.96
37	37 PCB-46	3.04e3	0.88	NO	0.754	5.010	31.01	31.02	0.985	0.985	NO	15.83		0.568	15.83
38	38 PCB-52/69	9.28e4	0.73	NO	1.09	5.010	31.52	31.50	1.001	1.001	NO	333.9		0.392	333.9
39	39 PCB-73			NO	1.29	5.010	31.65		1.005		YES			0.332	
40	40 PCB-43/49	6.80e4	0.72	NO	0.940	5.010	31.81	31.82	1.010	1.011	NO	284.2		0.455	284.2
41	41 PCB-47	2.52e4	0.70	NO	0.869	5.010	32.04	32.04	1.001	1.001	NO	103.6		0.474	103.6
42	42 PCB-48/75	1.79e4	0.75	NO	1.02	5.010	32.16	32.15	1.004	1.004	NO	62.25		0.402	62.25
43	43 PCB-65			NO	1.11	5.010	32.43		1.013		YES			0.371	
44	44 PCB-62			NO	1.07	5.010	32.54		1.016		YES			0.386	
45	45 PCB-44	5.76e4	0.77	NO	0.761	5.010	32.88	32.84	1.027	1.026	NO	270.2		0.541	270.2
46	46 PCB-42/59	2.69e4	0.75	NO	0.960	5.010	33.09	33.08	1.033	1.033	NO	99.85		0.429	99.85
47	47 PCB-41/64/71/72	8.39e4	0.71	NO	1.08	5.010	33.72	33.68	1.053	1.052	NO	276.4		0.380	276.4
48	48 PCB-68	1.84e3	0.75	NO	1.11	5.010	34.01	33.94	1.062	1.060	NO	5.916		0.371	5.916
49	49 PCB-40	9.11e3	0.68	NO	0.577	5.010	34.23	34.16	1.069	1.067	NO	56.36		0.714	56.36
50	50 PCB-57	8.68e2	1.12	YES	1.05	5.010	34.52	34.54	0.969	0.969	NO	2.568		0.320	2.140
51	51 PCB-67	4.49e3	0.85	NO	0.993	5.010	34.84	34.85	0.978	0.978	NO	13.95		0.338	13.95
52	52 PCB-58	1.26e3	0.85	NO	1.11	5.010	34.97	34.98	0.981	0.982	NO	3.499		0.301	3.499
53	53 PCB-63	6.29e3	0.72	NO	0.962	5.010	35.12	35.15	0.986	0.986	NO	20.19		0.348	20.19
54	54 PCB-74	6.63e4	0.70	NO	1.07	5.010	35.43	35.43	0.994	0.994	NO	192.0		0.314	192.0
55	55 PCB-61/70	1.62e5	0.71	NO	0.986	5.010	35.65	35.65	1.000	1.001	NO	506.3		0.340	506.3
56	56 PCB-76/66	1.32e5	0.73	NO	1.07	5.010	35.81	35.88	1.005	1.007	NO	381.7		0.314	381.7
57	57 PCB-80			NO	1.08	5.010	36.10		1.001		YES			0.299	
58	58 PCB-55	1.19e3	0.82	NO	1.07	5.010	36.42	36.40	1.010	1.009	NO	3.266		0.304	3.266
59	59 PCB-56/60	6.87e4	0.75	NO	0.934	5.010	36.96	36.92	1.024	1.023	NO	216.4		0.347	216.4
60	60 PCB-79	2.32e3	0.78	NO	1.04	5.010	38.06	38.05	1.055	1.055	NO	6.548		0.310	6.548
61	61 PCB-78	6.38e2	0.56	YES	1.03	5.010	38.76	38.71	0.987	0.985	NO	1.980		0.344	1.617
62	62 PCB-81	7.27e2	0.83	NO	0.933	5.010	39.30	39.34	1.000	1.001	NO	2.469		0.380	2.469
63	63 PCB-77	1.26e4	0.78	NO	1.03	5.010	39.92	39.91	1.000	1.000	NO	39.87		0.362	39.87
64	64 PCB-104			NO	0.995	5.010	32.70		1.001		YES			0.255	
65	65 PCB-96	1.57e3	1.79	NO	0.996	5.010	34.02	34.00	1.041	1.040	NO	4.796		0.255	4.796
66	66 PCB-103	3.20e3	1.50	NO	0.774	5.010	34.59	34.56	1.059	1.058	NO	12.58		0.328	12.58
67	67 PCB-100	8.20e2	1.37	NO	0.778	5.010	34.97	34.93	1.070	1.069	NO	3.212		0.326	3.212
68	68 PCB-94	7.05e2	1.87	YES	0.773	5.010	35.43	35.39	0.985	0.984	NO	3.455		0.426	3.079

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Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102	1.15e5	1.53	NO	1.01	5.010	35.90	35.97	0.999	1.001	NO	431.2		0.325	431.2
70	70 PCB-93			NO	0.841	5.010	36.03		1.002		YES			0.392	
71	71 PCB-88/91	2.12e4	1.56	NO	0.890	5.010	36.38	36.38	1.012	1.012	NO	90.09		0.371	90.09
72	72 PCB-121			NO	1.39	5.010	36.50		1.015		YES			0.238	
73	73 PCB-84/92	6.64e4	1.54	NO	0.879	5.010	37.33	37.31	0.990	0.990	NO	293.0		0.389	293.0
74	74 PCB-89	2.38e3	1.00	YES	0.959	5.010	37.51	37.51	0.995	0.995	NO	9.819		0.357	7.904
75	75 PCB-90/101	1.83e5	1.55	NO	0.944	5.010	37.72	37.72	1.000	1.000	NO	751.7		0.362	751.7
76	76 PCB-113	5.76e2	1.23	YES	1.23	5.010	37.97	37.96	1.007	1.007	NO	1.815		0.276	1.640
77	77 PCB-99	8.06e4	1.53	NO	1.12	5.010	38.07	38.05	1.010	1.009	NO	279.1		0.306	279.1
78	78 PCB-119	7.47e3	1.46	NO	1.47	5.010	38.53	38.54	0.987	0.987	NO	22.59		0.260	22.59
79	79 PCB-108/112	7.68e3	1.50	NO	1.25	5.010	38.69	38.70	0.991	0.991	NO	27.33		0.306	27.33
80	80 PCB-83			NO	1.55	5.010	38.84		0.995		YES			0.247	
81	81 PCB-97	4.48e4	1.47	NO	1.07	5.010	39.08	39.06	1.001	1.000	NO	185.6		0.355	185.6
82	82 PCB-86	5.75e2	1.06	YES	0.996	5.010	39.23	39.23	1.005	1.005	NO	2.589		0.394	2.166
83	83 PCB-87/117/125	5.83e4	1.49	NO	1.33	5.010	39.34	39.36	1.008	1.008	NO	194.6		0.287	194.6
84	84 PCB-111/115	2.29e3	0.89	YES	1.60	5.010	39.51	39.51	1.012	1.012	NO	6.360		0.230	4.927
85	85 PCB-85/116	2.66e4	1.68	NO	1.22	5.010	39.63	39.62	1.015	1.015	NO	97.27		0.314	97.27
86	86 PCB-120	1.97e3	1.21	YES	1.68	5.010	39.90	39.88	1.022	1.021	NO	5.209		0.227	4.678
87	87 PCB-110	2.09e5	1.52	NO	1.49	5.010	40.04	40.03	1.026	1.025	NO	626.6		0.257	626.6
88	88 PCB-82	1.53e4	1.58	NO	0.674	5.010	40.66	40.68	0.976	0.976	NO	75.79		0.435	75.79
89	89 PCB-124	5.96e3	1.41	NO	1.16	5.010	41.38	41.38	0.993	0.993	NO	17.17		0.252	17.17
90	90 PCB-107/109	1.61e4	1.38	NO	1.17	5.010	41.53	41.55	0.996	0.997	NO	46.38		0.252	46.38
91	91 PCB-123	2.44e3	1.12	YES	1.04	5.010	41.70	41.72	1.000	1.001	NO	7.860		0.292	6.806
92	92 PCB-106/118	1.60e5	1.48	NO	1.07	5.010	41.91	41.91	1.001	1.001	NO	470.8		0.267	470.8
93	93 PCB-114	3.27e3	1.53	NO	1.16	5.010	42.58	42.58	1.000	1.000	NO	11.75		0.531	11.75
94	94 PCB-122	1.66e3	1.47	NO	0.973	5.010	42.71	42.71	1.003	1.004	NO	7.135		0.634	7.135
95	95 PCB-105	3.81e4	1.61	NO	1.10	5.010	43.47	43.47	1.000	1.000	NO	144.3		0.566	144.3
96	96 PCB-127			NO	1.11	5.010	43.81		1.000		YES			0.518	
97	97 PCB-126	9.94e2	1.15	YES	1.21	5.010	45.78	45.78	1.000	1.000	NO	3.528		0.517	3.105
98	98 PCB-155			NO	0.874	5.010	37.23		1.000		YES			0.154	
99	99 PCB-150	3.73e2	1.27	NO	0.881	5.010	38.56	38.56	1.036	1.036	NO	1.258		0.153	1.258
100	1... PCB-152	2.74e2	1.77	YES	1.00	5.010	39.07	39.04	1.050	1.049	NO	0.8126		0.174	0.6561
101	1... PCB-145			NO	1.00	5.010	39.53		1.062		YES			0.135	
102	1... PCB-136	3.50e4	1.26	NO	0.843	5.010	39.86	39.82	1.071	1.070	NO	123.3		0.160	123.3
103	1... PCB-148	5.58e2	1.00	YES	0.693	5.010	40.00	39.91	1.075	1.073	NO	2.303		0.184	2.165
104	1... PCB-154	4.29e3	1.16	NO	0.724	5.010	40.50	40.45	1.088	1.087	NO	17.62		0.186	17.62

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Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151	4.94e4	1.30	NO	0.632	5.010	41.16	41.10	1.106	1.104	NO	232.6		0.213	232.6
106	1... PCB-135	2.63e4	1.20	NO	0.716	5.010	41.34	41.33	1.111	1.111	NO	109.3		0.188	109.3
107	1... PCB-144	9.27e3	1.28	NO	0.667	5.010	41.44	41.44	1.114	1.113	NO	41.34		0.202	41.34
108	1... PCB-147	3.61e3	1.36	NO	0.661	5.010	41.59	41.59	1.118	1.118	NO	16.25		0.203	16.25
109	1... PCB-139/149	1.73e5	1.27	NO	0.738	5.010	41.93	41.85	1.127	1.125	NO	694.9		0.182	694.9
110	1... PCB-140	1.74e3	1.29	NO	0.627	5.010	42.11	42.04	1.132	1.130	NO	8.236		0.214	8.236
111	1... PCB-134/143	7.33e3	1.15	NO	0.733	5.010	42.51	42.52	0.975	0.975	NO	41.56		0.873	41.56
112	1... PCB-131/133	4.80e3	1.06	NO	0.790	5.010	42.80	42.81	0.982	0.982	NO	25.23		0.810	25.23
113	1... PCB-142	2.57e2	1.18	NO	0.708	5.010	42.95	42.96	0.985	0.985	NO	1.507		0.904	1.507
114	1... PCB-146/165	3.60e4	1.19	NO	0.959	5.010	43.20	43.22	0.991	0.991	NO	156.0		0.667	156.0
115	1... PCB-132/161	5.00e4	1.27	NO	0.974	5.010	43.44	43.49	0.996	0.997	NO	213.3		0.657	213.3
116	1... PCB-153	1.98e5	1.23	NO	1.01	5.010	43.62	43.64	1.000	1.001	NO	812.1		0.632	812.1
117	1... PCB-168	3.59e2	1.45	YES	1.02	5.010	43.85	43.85	1.006	1.006	NO	1.464		0.626	1.338
118	1... PCB-141	3.03e4	1.26	NO	0.967	5.010	44.40	44.40	1.000	1.000	NO	156.1		0.802	156.1
119	1... PCB-137	5.50e3	1.18	NO	0.987	5.010	44.78	44.80	1.009	1.009	NO	27.78		0.786	27.78
120	1... PCB-130	1.08e4	1.20	NO	0.840	5.010	44.89	44.89	1.012	1.012	NO	64.28		0.923	64.28
121	1... PCB-138/163/164	2.00e5	1.24	NO	1.23	5.010	45.27	45.27	1.001	1.001	NO	772.4		0.594	772.4
122	1... PCB-158/160	1.51e4	1.19	NO	1.18	5.010	45.52	45.52	1.006	1.006	NO	60.85		0.619	60.85
123	1... PCB-129	4.69e3	1.27	NO	0.819	5.010	45.77	45.78	1.012	1.012	NO	27.12		0.890	27.12
124	1... PCB-166	7.61e2	1.26	NO	1.07	5.010	46.26	46.26	0.993	0.993	NO	2.753		0.578	2.753
125	1... PCB-159	3.17e3	1.42	NO	1.12	5.010	46.60	46.65	1.000	1.002	NO	10.96		0.553	10.96
126	1... PCB-128/162	2.15e4	1.24	NO	0.851	5.010	46.89	46.86	1.007	1.006	NO	97.59		0.727	97.59
127	1... PCB-167	6.51e3	1.20	NO	1.04	5.010	47.30	47.30	1.000	1.000	NO	25.22		0.600	25.22
128	1... PCB-156	1.79e4	1.19	NO	1.06	5.010	48.62	48.62	1.000	1.000	NO	67.38		0.577	67.38
129	1... PCB-157	2.99e3	1.15	NO	0.978	5.010	48.93	48.91	1.001	1.000	NO	11.83		0.633	11.83
130	1... PCB-169			NO	1.11	5.010	51.18		1.000		YES			0.609	
131	1... PCB-188	1.64e2	1.13	NO	1.19	5.010	43.26	43.24	1.001	1.000	NO	0.5616		0.442	0.5616
132	1... PCB-184	2.00e2	0.91	NO	1.17	5.010	43.71	43.74	1.011	1.012	NO	0.7005		0.452	0.7005
133	1... PCB-179	3.79e4	1.01	NO	1.18	5.010	44.52	44.51	1.030	1.030	NO	132.0		0.448	132.0
134	1... PCB-176	1.20e4	0.93	NO	1.16	5.010	44.99	44.99	1.041	1.041	NO	42.27		0.455	42.27
135	1... PCB-186			NO	1.22	5.010	45.61		1.055		YES			0.433	
136	1... PCB-178	1.30e4	1.07	NO	0.830	5.010	46.12	46.14	1.067	1.068	NO	64.08		0.635	64.08
137	1... PCB-175	2.82e3	1.15	NO	0.849	5.010	46.48	46.50	1.075	1.076	NO	13.61		0.621	13.61
138	1... PCB-182/187	9.17e4	1.03	NO	0.960	5.010	46.68	46.65	1.080	1.079	NO	391.2		0.549	391.2
139	1... PCB-183	3.94e4	1.01	NO	0.957	5.010	47.01	46.99	1.088	1.087	NO	168.5		0.551	168.5
140	1... PCB-185	8.35e3	0.98	NO	1.32	5.010	47.68	47.68	0.955	0.955	NO	36.08		0.563	36.08

Dataset: U:\VG11.PRO\Results\191107K2\191107K2-5.qld

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Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174	6.86e4	1.07	NO	1.22	5.010	48.05	48.06	0.962	0.962	NO	321.0		0.610	321.0
142	1... PCB-181	3.91e3	1.05	NO	1.41	5.010	48.15	48.13	0.964	0.964	NO	15.76		0.526	15.76
143	1... PCB-177	3.59e4	1.02	NO	1.24	5.010	48.33	48.34	0.968	0.968	NO	165.1		0.599	165.1
144	1... PCB-171	1.73e4	0.98	NO	1.24	5.010	48.62	48.62	0.974	0.974	NO	79.47		0.599	79.47
145	1... PCB-173	1.43e3	1.15	NO	1.14	5.010	49.06	49.08	0.983	0.983	NO	7.154		0.651	7.154
146	1... PCB-172	1.06e4	1.07	NO	1.31	5.010	49.55	49.55	0.992	0.992	NO	46.04		0.569	46.04
147	1... PCB-192			NO	1.70	5.010	49.74		0.996		YES			0.437	
148	1... PCB-180	1.56e5	1.02	NO	1.32	5.010	49.95	49.95	1.000	1.000	NO	672.3		0.563	672.3
149	1... PCB-193	8.79e3	0.98	NO	1.54	5.010	50.18	50.16	1.005	1.005	NO	32.55		0.483	32.55
150	1... PCB-191	3.06e3	1.47	YES	1.57	5.010	50.43	50.42	1.010	1.010	NO	11.87		0.478	9.176
151	1... PCB-170	5.31e4	1.05	NO	1.36	5.010	51.62	51.62	1.000	1.000	NO	251.8		0.618	251.8
152	1... PCB-190	1.55e4	0.90	NO	1.84	5.010	51.80	51.81	1.004	1.004	NO	54.24		0.456	54.24
153	1... PCB-189	2.66e3	1.05	NO	1.33	5.010	53.31	53.30	1.000	1.000	NO	9.446		0.412	9.446
154	1... PCB-202	9.18e3	0.91	NO	1.02	5.010	48.85	48.83	1.001	1.000	NO	33.84		0.330	33.84
155	1... PCB-201	6.05e3	0.93	NO	0.915	5.010	49.34	49.34	1.011	1.011	NO	24.96		0.369	24.96
156	1... PCB-204	2.36e2	0.72	YES	0.979	5.010	49.49	49.50	1.014	1.014	NO	0.9114		0.245	0.8093
157	1... PCB-197	2.07e3	0.72	YES	0.979	5.010	49.81	49.82	1.020	1.021	NO	7.996		0.345	7.081
158	1... PCB-200	6.31e3	0.91	NO	0.954	5.010	50.76	50.75	1.040	1.040	NO	24.96		0.354	24.96
159	1... PCB-198	1.77e3	0.83	NO	0.748	5.010	52.28	52.30	1.071	1.071	NO	8.934		0.451	8.934
160	1... PCB-199	3.41e4	0.90	NO	0.706	5.010	52.39	52.41	1.073	1.074	NO	182.5		0.478	182.5
161	1... PCB-196/203	4.23e4	0.85	NO	0.785	5.010	52.85	52.72	1.083	1.080	NO	203.6		0.430	203.6
162	1... PCB-195	1.13e4	0.93	NO	1.03	5.010	53.98	53.99	0.984	0.984	NO	64.45		0.539	64.45
163	1... PCB-194	2.75e4	0.98	NO	1.16	5.010	54.90	54.90	1.000	1.000	NO	140.0		0.482	140.0
164	1... PCB-205	1.82e3	0.99	NO	1.40	5.010	55.17	55.16	1.005	1.005	NO	7.631		0.398	7.631
165	1... PCB-208	5.15e3	1.23	NO	0.934	5.010	54.14	54.14	1.000	1.000	NO	23.72		0.316	23.72
166	1... PCB-207	3.83e3	1.27	NO	0.912	5.010	54.46	54.48	1.006	1.007	NO	18.11		0.324	18.11
167	1... PCB-206	1.11e4	1.30	NO	0.987	5.010	56.44	56.44	1.000	1.000	NO	68.19		0.433	68.19
168	1... PCB-209	1.42e4	1.18	NO	0.943	5.010	57.64	57.65	1.000	1.000	NO	72.06		0.138	72.06
169	1... 13C-PCB-1	5.92e5	3.42	NO	1.08	5.010	15.67	15.68	0.609	0.610	NO	938.9	47.0	1.17	
170	1... 13C-PCB-3	6.58e5	3.57	NO	1.09	5.010	18.33	18.34	0.712	0.713	NO	1031	51.7	1.16	
171	1... 13C-PCB-4	3.81e5	1.59	NO	0.640	5.010	19.69	19.69	0.765	0.765	NO	1019	51.0	0.581	
172	1... 13C-PCB-9	6.38e5	1.57	NO	0.995	5.010	21.53	21.53	0.837	0.837	NO	1095	54.9	0.374	
173	1... 13C-PCB-11	7.16e5	1.57	NO	0.971	5.010	25.01	25.01	0.972	0.972	NO	1259	63.1	0.383	
174	1... 13C-PCB-19	4.66e5	0.99	NO	0.637	5.010	23.95	23.95	0.931	0.931	NO	1251	62.7	6.42	
175	1... 13C-PCB-32	7.44e5	0.99	NO	0.910	5.010	26.97	26.95	1.048	1.048	NO	1397	70.0	4.50	
176	1... 13C-PCB-28	6.25e5	1.03	NO	1.07	5.010	28.97	28.97	1.003	1.003	NO	1150	57.6	4.05	



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Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	6.60e5	1.05	NO	0.959	5.010	32.97	32.99	1.141	1.142	NO	1353	67.8	4.52	
178	1... 13C-PCB-54	5.94e5	0.75	NO	1.10	5.010	27.83	27.82	0.754	0.754	NO	1058	53.0	0.907	
179	1... 13C-PCB-52	5.08e5	0.75	NO	0.844	5.010	31.48	31.49	0.853	0.853	NO	1176	58.9	1.18	
180	1... 13C-PCB-47	5.60e5	0.75	NO	0.893	5.010	32.00	32.02	0.867	0.867	NO	1224	61.3	1.11	
181	1... 13C-PCB-70	6.47e5	0.77	NO	1.01	5.010	35.63	35.63	0.965	0.965	NO	1254	62.8	0.988	
182	1... 13C-PCB-80	6.78e5	0.76	NO	1.05	5.010	36.06	36.08	0.977	0.977	NO	1267	63.5	0.952	
183	1... 13C-PCB-81	6.30e5	0.77	NO	0.985	5.010	39.28	39.28	1.064	1.064	NO	1249	62.6	1.01	
184	1... 13C-PCB-77	6.10e5	0.75	NO	0.958	5.010	39.89	39.90	1.080	1.081	NO	1244	62.3	1.04	
185	1... 13C-PCB-104	6.55e5	1.55	NO	1.10	5.010	32.67	32.68	0.827	0.828	NO	1204	60.3	0.390	
186	1... 13C-PCB-95	5.27e5	1.57	NO	0.852	5.010	35.95	35.95	0.910	0.910	NO	1246	62.4	0.502	
187	1... 13C-PCB-101	5.15e5	1.56	NO	0.814	5.010	37.70	37.70	0.955	0.955	NO	1276	63.9	0.526	
188	1... 13C-PCB-97	4.49e5	1.55	NO	0.709	5.010	39.04	39.04	0.989	0.989	NO	1275	63.9	0.603	
189	1... 13C-PCB-123	5.95e5	1.57	NO	0.922	5.010	41.67	41.68	1.055	1.056	NO	1303	65.3	0.464	
190	1... 13C-PCB-118	6.34e5	1.60	NO	0.975	5.010	41.86	41.87	1.060	1.060	NO	1312	65.7	0.439	
191	1... 13C-PCB-114	4.79e5	1.58	NO	1.52	5.010	42.54	42.56	0.908	0.909	NO	1099	55.1	1.23	
192	1... 13C-PCB-105	4.79e5	1.56	NO	1.58	5.010	43.43	43.45	0.927	0.928	NO	1055	52.8	1.18	
193	1... 13C-PCB-127	5.08e5	1.61	NO	1.62	5.010	43.79	43.79	0.935	0.935	NO	1093	54.8	1.15	
194	1... 13C-PCB-126	4.62e5	1.58	NO	1.45	5.010	45.74	45.76	0.976	0.977	NO	1116	55.9	1.29	
195	1... 13C-PCB-155	6.71e5	1.27	NO	1.03	5.010	37.21	37.22	0.942	0.943	NO	1319	66.1	0.268	
196	1... 13C-PCB-153	4.80e5	1.25	NO	1.42	5.010	43.61	43.60	0.931	0.931	NO	1177	59.0	0.942	
197	1... 13C-PCB-141	4.00e5	1.24	NO	1.14	5.010	44.38	44.38	0.947	0.947	NO	1222	61.2	1.17	
198	1... 13C-PCB-138	4.21e5	1.24	NO	1.18	5.010	45.23	45.23	0.966	0.966	NO	1245	62.4	1.14	
199	1... 13C-PCB-159	5.16e5	1.24	NO	1.43	5.010	46.59	46.58	0.994	0.994	NO	1255	62.9	0.936	
200	2... 13C-PCB-167	4.94e5	1.24	NO	1.42	5.010	47.28	47.28	1.009	1.009	NO	1210	60.6	0.942	
201	2... 13C-PCB-156	5.01e5	1.24	NO	1.40	5.010	48.60	48.60	1.038	1.038	NO	1249	62.6	0.960	
202	2... 13C-PCB-157	5.16e5	1.24	NO	1.41	5.010	48.89	48.89	1.044	1.044	NO	1279	64.1	0.953	
203	2... 13C-PCB-169	4.83e5	1.28	NO	1.35	5.010	51.16	51.16	1.092	1.092	NO	1251	62.7	0.996	
204	2... 13C-PCB-188	4.87e5	0.45	NO	1.46	5.010	43.22	43.22	0.926	0.926	NO	1190	59.6	0.511	
205	2... 13C-PCB-180	3.50e5	0.44	NO	0.932	5.010	49.93	49.93	1.070	1.070	NO	1342	67.2	0.802	
206	2... 13C-PCB-170	3.09e5	0.44	NO	0.796	5.010	51.60	51.60	1.106	1.106	NO	1388	69.5	0.939	
207	2... 13C-PCB-189	4.21e5	0.44	NO	1.09	5.010	53.28	53.28	1.142	1.142	NO	1380	69.2	0.685	
208	2... 13C-PCB-202	5.28e5	0.91	NO	1.45	5.010	48.83	48.81	1.046	1.046	NO	1301	65.2	0.268	
209	2... 13C-PCB-194	3.39e5	0.89	NO	0.714	5.010	54.90	54.89	0.995	0.995	NO	1306	65.4	0.967	
210	2... 13C-PCB-208	4.63e5	0.77	NO	0.896	5.010	54.14	54.13	0.982	0.981	NO	1420	71.1	0.823	
211	2... 13C-PCB-206	3.28e5	0.78	NO	0.653	5.010	56.42	56.42	1.023	1.023	NO	1379	69.1	1.13	
212	2... 13C-PCB-209	4.18e5	1.20	NO	0.806	5.010	57.65	57.64	1.045	1.045	NO	1424	71.4	0.168	

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Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	1.17e6	1.58	NO	1.00	5.010	25.74	25.73	1.000	0.000	NO	1996	100	0.372	
214	2... 13C-PCB-31	1.01e6	1.05	NO	1.00	5.010	28.90	28.88	1.000	0.000	NO	1996	100	4.33	
215	2... 13C-PCB-60	1.02e6	0.78	NO	1.00	5.010	36.94	36.92	1.000	0.000	NO	1996	100	0.996	
216	2... 13C-PCB-111	9.90e5	1.54	NO	1.00	5.010	39.51	39.49	1.000	0.000	NO	1996	100	0.428	
217	2... 13C-PCB-128	5.72e5	1.27	NO	1.00	5.010	46.86	46.84	1.000	0.000	NO	1996	100	1.34	
218	2... 13C-PCB-182	5.59e5	0.45	NO	1.00	5.010	46.69	46.67	0.000	0.000	NO	1996	100	0.747	
219	2... 13C-PCB-205	7.27e5	0.90	NO	1.00	5.010	55.16	55.16	1.000	0.000	NO	1996	100	0.690	
220	2... 13C-PCB-79	7.08e5	0.78	NO	1.03	5.010	38.05	38.02	1.031	1.030	NO	1340	67.1	0.965	
221	2... 13C-PCB-178	3.46e5	0.44	NO	0.875	5.010	46.12	46.10	0.988	0.988	NO	1380	69.1	0.832	
222	2... 13C-PCB-79	7.08e5	0.78	NO	1.05	5.010	38.01	38.02	0.967	0.968	NO	2146	108	1.55	
223	2... 13C-PCB-178	3.46e5	0.44	NO	0.975	5.010	46.12	46.10	0.924	0.923	NO	2023	101	1.20	
224	2... Total Mono-PCBs				1.01	5.010	0.00		0.000		NO	4.539		0.761	5.422
225	2... Total Di-PCBs				1.06	5.010	0.00		0.000		NO	39.15		13.2	39.15
226	2... 2nd Function Tri-PCBs				0.914	5.010	0.00		0.000		NO	141.9	> 766.1 -	2.49	141.9 > 766.1
227	2... 3rd Function Tri-PCBs				1.06	5.010	0.00		0.000		NO	624.2		8.17	624.2
228	2... Total Tetra-PCBs				0.986	5.010	0.00		0.000		NO	2975		12.7	2980
229	2... 3rd Function Penta-PCBs				1.12	5.010	0.00		0.000		NO	3630		8.97	3661
230	2... 4th Function Penta-PCBs				1.11	5.010	0.00		0.000		NO	163.2	> 3793.2 -	2.80	166.3 > 3827.3 -
231	2... 3rd Function Hexa-PCBs				0.774	5.010	0.00		0.000		NO	1245		2.32	1248
232	2... 4th Function Hexa-PCBs				0.972	5.010	0.00		0.000		NO	2574	> 3819.0 -	14.1	2575 > 3823.0
233	2... Total Hepta-PCBs				1.26	5.010	0.00		0.000		NO	2504		12.1	2513
234	2... 4th Function Octa-PCBs				0.886	5.010	0.00		0.000		NO	478.7	> 690.80 -	3.10	486.6 > 696.7 -
235	2... 5th Function Octa-PCBs				1.20	5.010	0.00		0.000		NO	212.1		1.42	212.1
236	2... Total Nona-PCBs				0.945	5.010	0.00		0.000		NO	110.0		1.07	110.0
237	2... Deca-CB				0.943	5.010	0.00		0.000		NO	72.06		0.138	72.06
238	2... Total PCBs														

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Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-04-19.mdb 05 Nov 2019 14:32:48

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

**Total Mono-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-1	15.69	15.69	7.665e3	2.312e3	4.589e2	1.282e2	3.58	NO	5.871e2	1.9395	1.9395	0.256
2	PCB-2	18.12	18.12	3.689e3	2.053e3	2.227e2	9.353e1	2.38	YES	3.163e2	0.00000	0.88305	0.252
3	PCB-3	18.35	18.36	1.114e4	2.892e3	6.603e2	2.031e2	3.25	NO	8.633e2	2.5993	2.5993	0.253

**Total Di-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-5/8	22.65	22.64	3.547e4	2.710e4	2.280e3	1.581e3	1.44	NO	3.862e3	11.950	11.950	1.67
2	PCB-15	25.76	25.75	9.317e4	5.992e4	6.307e3	3.725e3	1.69	NO	1.003e4	27.203	27.203	1.51

**2nd Function Tri-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-19	23.99	23.99	4.859e3	6.028e3	3.741e2	3.232e2	1.16	NO	6.972e2	3.1937	3.1937	0.528
2	PCB-18	25.64	25.67	1.195e5	1.182e5	7.655e3	7.535e3	1.02	NO	1.519e4	58.801	58.801	0.443
3	PCB-17	25.83	25.85	6.525e4	6.358e4	3.959e3	4.210e3	0.94	NO	8.169e3	32.861	32.861	0.460
4	PCB-24/27	26.45	26.42	1.106e4	1.105e4	8.292e2	8.321e2	1.00	NO	1.661e3	4.8730	4.8730	0.336
5	PCB-16/32	26.98	26.98	6.793e4	6.315e4	6.264e3	6.184e3	1.01	NO	1.245e4	42.144	42.144	0.388

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3rd Function Tri-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-34	27.78	27.78	5.772e3	7.838e3	5.222e2	5.690e2	0.92	NO	1.091e3	3.5289	3.5289	0.626
2	PCB-26	28.36	28.36	6.549e4	5.949e4	4.966e3	4.487e3	1.11	NO	9.453e3	30.156	30.156	0.618
3	PCB-25	28.51	28.53	4.646e4	4.576e4	3.662e3	3.629e3	1.01	NO	7.291e3	23.805	23.805	0.632
4	PCB-31	28.90	28.90	3.528e5	3.446e5	2.754e4	2.710e4	1.02	NO	5.463e4	155.33	155.33	0.550
5	PCB-28	28.99	29.01	5.072e5	4.660e5	3.725e4	3.418e4	1.09	NO	7.143e4	206.26	206.26	0.559
6	PCB-20/21/33	29.64	29.66	1.500e5	1.466e5	1.179e4	1.178e4	1.00	NO	2.356e4	74.988	74.988	0.616
7	PCB-22	30.12	30.09	9.763e4	1.001e5	7.564e3	7.557e3	1.00	NO	1.512e4	46.743	46.743	0.599
8	PCB-39	31.19	31.22	4.247e3	3.361e3	3.351e2	2.925e2	1.15	NO	6.276e2	1.7513	1.7513	0.558
9	PCB-38	32.00	32.04	7.162e3	5.076e3	4.833e2	4.303e2	1.12	NO	9.136e2	2.4495	2.4495	0.536
10	PCB-35	32.55	32.58	8.671e3	1.170e4	7.619e2	8.496e2	0.90	NO	1.611e3	4.3062	4.3062	0.534
11	PCB-37	33.03	33.01	1.840e5	1.706e5	1.413e4	1.326e4	1.07	NO	2.740e4	74.934	74.934	0.547

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Total Tetra-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-54	27.84	27.86	1.266e3	1.968e3	7.204e1	1.202e2	0.60	YES	1.922e2	0.00000	0.55837	0.361
2	PCB-50	29.08	29.07	1.710e3	1.199e3	1.389e2	8.393e1	1.66	YES	2.229e2	0.00000	0.63845	0.460
3	PCB-53	29.71	29.72	4.923e4	6.120e4	3.566e3	4.775e3	0.75	NO	8.340e3	34.316	34.316	0.448
4	PCB-51	30.06	30.07	2.115e4	2.537e4	1.464e3	1.907e3	0.77	NO	3.370e3	12.938	12.938	0.418
5	PCB-45	30.49	30.52	3.621e4	5.200e4	2.889e3	3.887e3	0.74	NO	6.776e3	32.957	32.957	0.530
6	PCB-46	31.01	31.02	1.839e4	2.063e4	1.422e3	1.614e3	0.88	NO	3.035e3	15.829	15.829	0.568
7	PCB-52/69	31.52	31.50	5.148e5	7.142e5	3.908e4	5.369e4	0.73	NO	9.278e4	333.91	333.91	0.392
8	PCB-43/49	31.81	31.82	3.681e5	5.088e5	2.851e4	3.949e4	0.72	NO	6.800e4	284.24	284.24	0.455
9	PCB-47	32.04	32.04	1.341e5	1.890e5	1.038e4	1.485e4	0.70	NO	2.523e4	103.58	103.58	0.474
10	PCB-48/75	32.16	32.15	9.909e4	1.298e5	7.667e3	1.021e4	0.75	NO	1.788e4	62.253	62.253	0.402
11	PCB-44	32.88	32.84	3.335e5	4.314e5	2.505e4	3.260e4	0.77	NO	5.765e4	270.19	270.19	0.541
12	PCB-42/59	33.09	33.08	1.508e5	2.014e5	1.156e4	1.532e4	0.75	NO	2.688e4	99.851	99.851	0.429
13	PCB-41/64/71/72	33.72	33.68	4.270e5	5.880e5	3.481e4	4.905e4	0.71	NO	8.386e4	276.44	276.44	0.380
14	PCB-68	34.01	33.94	9.374e3	1.295e4	7.854e2	1.054e3	0.75	NO	1.839e3	5.9158	5.9158	0.371
15	PCB-40	34.23	34.16	4.813e4	6.948e4	3.695e3	5.418e3	0.68	NO	9.114e3	56.363	56.363	0.714
16	PCB-57	34.52	34.54	6.568e3	5.323e3	4.580e2	4.105e2	1.12	YES	8.685e2	0.00000	2.1400	0.320
17	PCB-67	34.84	34.85	2.445e4	3.212e4	2.059e3	2.428e3	0.85	NO	4.487e3	13.947	13.947	0.338
18	PCB-58	34.97	34.98	8.808e3	8.798e3	5.805e2	6.805e2	0.85	NO	1.261e3	3.4994	3.4994	0.301
19	PCB-63	35.12	35.15	3.032e4	4.647e4	2.624e3	3.668e3	0.72	NO	6.291e3	20.189	20.189	0.348
20	PCB-74	35.43	35.43	3.462e5	4.954e5	2.742e4	3.890e4	0.70	NO	6.632e4	192.05	192.05	0.314
21	PCB-61/70	35.65	35.65	8.777e5	1.237e6	6.738e4	9.430e4	0.71	NO	1.617e5	506.27	506.27	0.340
22	PCB-76/66	35.81	35.88	7.165e5	9.828e5	5.574e4	7.612e4	0.73	NO	1.319e5	381.74	381.74	0.314
23	PCB-55	36.42	36.40	5.670e3	7.864e3	5.335e2	6.520e2	0.82	NO	1.186e3	3.2663	3.2663	0.304
24	PCB-56/60	36.96	36.92	3.750e5	5.113e5	2.934e4	3.936e4	0.75	NO	6.870e4	216.37	216.37	0.347
25	PCB-79	38.06	38.05	1.197e4	1.584e4	1.016e3	1.309e3	0.78	NO	2.325e3	6.5483	6.5483	0.310
26	PCB-78	38.76	38.71	2.086e3	4.351e3	2.290e2	4.091e2	0.56	YES	6.381e2	0.00000	1.6171	0.344
27	PCB-81	39.30	39.34	9.767e3	1.206e4	3.295e2	3.973e2	0.83	NO	7.268e2	2.4692	2.4692	0.380
28	PCB-77	39.92	39.91	6.647e4	9.076e4	5.528e3	7.060e3	0.78	NO	1.259e4	39.868	39.868	0.362

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3rd Function Penta-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-96	34.02	34.00	1.146e4	7.879e3	1.006e3	5.621e2	1.79	NO	1.568e3	4.7965	4.7965	0.255
2	PCB-103	34.59	34.56	2.433e4	1.675e4	1.920e3	1.277e3	1.50	NO	3.197e3	12.576	12.576	0.328
3	PCB-100	34.97	34.93	5.662e3	4.286e3	4.745e2	3.456e2	1.37	NO	8.200e2	3.2123	3.2123	0.326
4	PCB-94	35.43	35.39	5.950e3	3.072e3	4.598e2	2.456e2	1.87	YES	7.053e2	0.00000	3.0794	0.426
5	PCB-95/98/102	35.90	35.97	8.904e5	5.755e5	6.983e4	4.567e4	1.53	NO	1.155e5	431.24	431.24	0.325
6	PCB-88/91	36.38	36.38	1.698e5	1.050e5	1.289e4	8.267e3	1.56	NO	2.115e4	90.092	90.092	0.371
7	PCB-84/92	37.33	37.31	5.136e5	3.309e5	4.022e4	2.620e4	1.54	NO	6.642e4	292.99	292.99	0.389
8	PCB-89	37.51	37.51	1.578e4	1.306e4	1.192e3	1.189e3	1.00	YES	2.381e3	0.00000	7.9041	0.357
9	PCB-90/101	37.72	37.72	1.453e6	9.157e5	1.114e5	7.168e4	1.55	NO	1.831e5	751.75	751.75	0.362
10	PCB-113	37.97	37.96	9.393e3	7.186e3	3.174e2	2.590e2	1.23	YES	5.764e2	0.00000	1.6403	0.278
11	PCB-99	38.07	38.05	6.356e5	4.138e5	4.879e4	3.180e4	1.53	NO	8.058e4	279.11	279.11	0.306
12	PCB-119	38.53	38.54	5.340e4	3.629e4	4.434e3	3.038e3	1.46	NO	7.472e3	22.593	22.593	0.260
13	PCB-108/112	38.69	38.70	6.216e4	3.833e4	4.604e3	3.072e3	1.50	NO	7.677e3	27.334	27.334	0.306
14	PCB-97	39.08	39.06	3.437e5	2.390e5	2.669e4	1.815e4	1.47	NO	4.484e4	185.57	185.57	0.355
15	PCB-86	39.23	39.23	5.244e3	3.884e3	2.954e2	2.794e2	1.06	YES	5.748e2	0.00000	2.1660	0.384
16	PCB-87/117/125	39.34	39.36	4.457e5	2.991e5	3.492e4	2.337e4	1.49	NO	5.830e4	194.62	194.62	0.287
17	PCB-111/115	39.51	39.51	1.859e4	1.747e4	1.081e3	1.208e3	0.89	YES	2.289e3	0.00000	4.9273	0.239
18	PCB-85/116	39.63	39.62	2.142e5	1.322e5	1.668e4	9.910e3	1.68	NO	2.659e4	97.274	97.274	0.314
19	PCB-120	39.90	39.88	1.362e4	8.799e3	1.077e3	8.911e2	1.21	YES	1.968e3	0.00000	4.6785	0.227
20	PCB-110	40.04	40.03	1.647e6	1.069e6	1.263e5	8.293e4	1.52	NO	2.093e5	626.56	626.56	0.257
21	PCB-82	40.66	40.68	1.182e5	7.769e4	9.347e3	5.904e3	1.58	NO	1.525e4	75.792	75.792	0.435
22	PCB-124	41.38	41.38	3.783e4	2.735e4	3.482e3	2.476e3	1.41	NO	5.958e3	17.170	17.170	0.252
23	PCB-107/109	41.53	41.55	1.218e5	8.289e4	9.356e3	6.784e3	1.38	NO	1.614e4	46.384	46.384	0.252
24	PCB-123	41.70	41.72	1.621e4	1.486e4	1.288e3	1.153e3	1.12	YES	2.442e3	0.00000	6.8062	0.282
25	PCB-106/118	41.91	41.91	1.185e6	7.860e5	9.558e4	6.451e4	1.48	NO	1.601e5	470.77	470.77	0.267

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4th Function Penta-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-114	42.58	42.58	2.134e4	1.387e4	1.977e3	1.296e3	1.53	NO	3.272e3	11.746	11.746	0.531
2 PCB-122	42.71	42.71	1.079e4	8.221e3	9.905e2	6.738e2	1.47	NO	1.664e3	7.1349	7.1349	0.634
3 PCB-105	43.47	43.47	2.901e5	1.792e5	2.351e4	1.460e4	1.61	NO	3.811e4	144.32	144.32	0.566
4 PCB-126	45.78	45.78	6.419e3	5.096e3	5.315e2	4.625e2	1.15	YES	9.939e2	0.00000	3.1047	0.547

3rd Function Hexa-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-150	38.56	38.56	2.176e3	2.014e3	2.085e2	1.640e2	1.27	NO	3.725e2	1.2579	1.2579	0.153
2 PCB-152	39.07	39.04	2.208e3	1.205e3	1.755e2	9.892e1	1.77	YES	2.744e2	0.00000	0.65605	0.134
3 PCB-136	39.86	39.82	2.494e5	1.995e5	1.947e4	1.549e4	1.26	NO	3.496e4	123.30	123.30	0.160
4 PCB-148	40.00	39.91	6.482e3	4.637e3	2.794e2	2.784e2	1.00	YES	5.578e2	0.00000	2.1649	0.194
5 PCB-154	40.50	40.45	2.971e4	2.417e4	2.304e3	1.984e3	1.16	NO	4.289e3	17.617	17.617	0.186
6 PCB-151	41.16	41.10	3.529e5	2.730e5	2.795e4	2.148e4	1.30	NO	4.944e4	232.61	232.61	0.213
7 PCB-135	41.34	41.33	1.777e5	1.549e5	1.434e4	1.198e4	1.20	NO	2.632e4	109.32	109.32	0.188
8 PCB-144	41.44	41.44	7.267e4	5.781e4	5.203e3	4.064e3	1.28	NO	9.267e3	41.345	41.345	0.202
9 PCB-147	41.59	41.59	2.481e4	1.932e4	2.079e3	1.533e3	1.36	NO	3.612e3	16.250	16.250	0.203
10 PCB-139/149	41.93	41.85	1.218e6	9.435e5	9.644e4	7.607e4	1.27	NO	1.725e5	694.87	694.87	0.182
11 PCB-140	42.11	42.04	1.143e4	9.455e3	9.787e2	7.586e2	1.29	NO	1.737e3	8.2357	8.2357	0.214

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4th Function Hexa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-134/143	42.51	42.52	4.621e4	3.976e4	3.927e3	3.408e3	1.15	NO	7.335e3	41.565	41.565	0.873
2	PCB-131/133	42.80	42.81	3.085e4	3.159e4	2.470e3	2.327e3	1.06	NO	4.797e3	25.231	25.231	0.810
3	PCB-142	42.95	42.96	1.882e3	1.506e3	1.391e2	1.176e2	1.18	NO	2.567e2	1.5066	1.5066	0.904
4	PCB-146/165	43.20	43.22	2.526e5	2.093e5	1.960e4	1.641e4	1.19	NO	3.601e4	155.96	155.96	0.667
5	PCB-132/161	43.44	43.49	3.627e5	2.902e5	2.795e4	2.205e4	1.27	NO	5.000e4	213.26	213.26	0.657
6	PCB-153	43.62	43.64	1.343e6	1.096e6	1.092e5	8.858e4	1.23	NO	1.978e5	812.10	812.10	0.632
7	PCB-168	43.85	43.85	3.029e3	1.826e3	2.125e2	1.466e2	1.45	YES	3.591e2	0.00000	1.3384	0.628
8	PCB-141	44.40	44.40	2.131e5	1.650e5	1.686e4	1.342e4	1.26	NO	3.028e4	156.06	156.06	0.802
9	PCB-137	44.78	44.80	3.875e4	3.230e4	2.982e3	2.520e3	1.18	NO	5.502e3	27.780	27.780	0.786
10	PCB-130	44.89	44.89	7.518e4	6.107e4	5.910e3	4.925e3	1.20	NO	1.083e4	64.283	64.283	0.923
11	PCB-138/163/164	45.27	45.27	1.215e6	9.883e5	1.105e5	8.939e4	1.24	NO	1.999e5	772.37	772.37	0.594
12	PCB-158/160	45.52	45.52	1.002e5	8.550e4	8.214e3	6.916e3	1.19	NO	1.513e4	60.850	60.850	0.619
13	PCB-129	45.77	45.78	3.430e4	2.538e4	2.622e3	2.066e3	1.27	NO	4.688e3	27.118	27.118	0.890
14	PCB-166	46.26	46.26	5.609e3	3.845e3	4.244e2	3.362e2	1.26	NO	7.605e2	2.7527	2.7527	0.578
15	PCB-159	46.60	46.65	2.262e4	1.539e4	1.858e3	1.311e3	1.42	NO	3.169e3	10.957	10.957	0.553
16	PCB-128/162	46.89	46.86	1.435e5	1.161e5	1.189e4	9.567e3	1.24	NO	2.145e4	97.593	97.593	0.727
17	PCB-167	47.30	47.30	4.529e4	3.633e4	3.544e3	2.965e3	1.20	NO	6.510e3	25.217	25.217	0.600
18	PCB-156	48.62	48.62	1.230e5	9.949e4	9.687e3	8.173e3	1.19	NO	1.786e4	67.384	67.384	0.577
19	PCB-157	48.93	48.91	2.085e4	1.632e4	1.601e3	1.387e3	1.15	NO	2.988e3	11.825	11.825	0.633



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Total Hepta-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-188	43.26	43.24	1.208e3	9.760e2	8.677e1	7.684e1	1.13	NO	1.636e2	0.56159	0.56159	0.442
2	PCB-184	43.71	43.74	9.640e2	9.360e2	9.493e1	1.046e2	0.91	NO	1.995e2	0.70048	0.70048	0.452
3	PCB-179	44.52	44.51	2.452e5	2.409e5	1.906e4	1.884e4	1.01	NO	3.790e4	131.99	131.99	0.448
4	PCB-176	44.99	44.99	7.354e4	8.072e4	5.756e3	6.210e3	0.93	NO	1.197e4	42.271	42.271	0.455
5	PCB-178	46.12	46.14	8.385e4	8.022e4	6.727e3	6.268e3	1.07	NO	1.299e4	64.084	64.084	0.635
6	PCB-175	46.48	46.50	1.754e4	1.528e4	1.509e3	1.311e3	1.15	NO	2.819e3	13.607	13.607	0.621
7	PCB-182/187	46.68	46.65	5.930e5	5.698e5	4.646e4	4.523e4	1.03	NO	9.169e4	391.16	391.16	0.549
8	PCB-183	47.01	46.99	2.437e5	2.479e5	1.973e4	1.963e4	1.01	NO	3.935e4	168.49	168.49	0.551
9	PCB-185	47.68	47.68	5.230e4	5.497e4	4.138e3	4.215e3	0.98	NO	8.352e3	36.082	36.082	0.563
10	PCB-174	48.05	48.06	4.443e5	4.083e5	3.541e4	3.322e4	1.07	NO	6.863e4	321.04	321.04	0.610
11	PCB-181	48.15	48.13	3.457e4	3.575e4	2.000e3	1.911e3	1.05	NO	3.912e3	15.764	15.764	0.526
12	PCB-177	48.33	48.34	2.140e5	2.162e5	1.809e4	1.782e4	1.02	NO	3.592e4	165.05	165.05	0.599
13	PCB-171	48.62	48.62	1.029e5	1.066e5	8.567e3	8.749e3	0.98	NO	1.732e4	79.470	79.470	0.599
14	PCB-173	49.06	49.08	9.029e3	8.094e3	7.647e2	6.677e2	1.15	NO	1.432e3	7.1535	7.1535	0.651
15	PCB-172	49.55	49.55	6.749e4	6.378e4	5.467e3	5.090e3	1.07	NO	1.056e4	46.039	46.039	0.569
16	PCB-180	49.95	49.95	9.870e5	9.827e5	7.851e4	7.717e4	1.02	NO	1.557e5	672.30	672.30	0.563
17	PCB-193	50.18	50.16	5.527e4	5.178e4	4.355e3	4.434e3	0.98	NO	8.790e3	32.551	32.551	0.483
18	PCB-191	50.43	50.42	2.305e4	1.602e4	1.820e3	1.236e3	1.47	YES	3.056e3	0.00000	9.1763	0.473
19	PCB-170	51.62	51.62	3.528e5	3.248e5	2.726e4	2.584e4	1.05	NO	5.310e4	251.78	251.78	0.618
20	PCB-190	51.80	51.81	9.423e4	1.046e5	7.333e3	8.148e3	0.90	NO	1.548e4	54.237	54.237	0.456
21	PCB-189	53.31	53.30	1.803e4	1.842e4	1.360e3	1.298e3	1.05	NO	2.658e3	9.4456	9.4456	0.412

Dataset: U:\VG11.PRO\Results\191107K2\191107K2-5.qld

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4th Function Octa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-202	48.85	48.83	5.170e4	6.161e4	4.363e3	4.812e3	0.91	NO	9.175e3	33.837	33.837	0.330
2	PCB-201	49.34	49.34	3.620e4	3.996e4	2.922e3	3.127e3	0.93	NO	6.049e3	24.965	24.965	0.369
3	PCB-204	49.49	49.50	1.228e3	1.703e3	9.878e1	1.375e2	0.72	YES	2.363e2	0.00000	0.80929	0.345
4	PCB-197	49.81	49.82	9.481e3	1.594e4	8.643e2	1.208e3	0.72	YES	2.073e3	0.00000	7.0808	0.345
5	PCB-200	50.76	50.75	3.817e4	4.026e4	3.002e3	3.304e3	0.91	NO	6.306e3	24.959	24.959	0.354
6	PCB-198	52.28	52.30	1.061e4	1.318e4	8.039e2	9.662e2	0.83	NO	1.770e3	8.9340	8.9340	0.451
7	PCB-199	52.39	52.41	2.235e5	2.517e5	1.614e4	1.797e4	0.90	NO	3.411e4	182.48	182.48	0.478
8	PCB-196/203	52.85	52.72	2.722e5	3.218e5	1.940e4	2.290e4	0.85	NO	4.230e4	203.55	203.55	0.430

5th Function Octa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-195	53.98	53.99	9.119e4	9.661e4	5.461e3	5.867e3	0.93	NO	1.133e4	64.455	64.455	0.539
2	PCB-194	54.90	54.90	2.465e5	2.498e5	1.364e4	1.389e4	0.98	NO	2.753e4	140.03	140.03	0.482
3	PCB-205	55.17	55.16	1.539e4	1.558e4	9.042e2	9.133e2	0.99	NO	1.817e3	7.6307	7.6307	0.398

Total Nona-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-208	54.14	54.14	4.853e4	3.691e4	2.843e3	2.304e3	1.23	NO	5.146e3	23.724	23.724	0.316
2	PCB-207	54.46	54.48	3.572e4	2.672e4	2.145e3	1.690e3	1.27	NO	3.835e3	18.107	18.107	0.324
3	PCB-206	56.44	56.44	1.053e5	8.084e4	6.243e3	4.814e3	1.30	NO	1.106e4	68.189	68.189	0.433

Deca-CB

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-209	57.64	57.65	1.541e5	1.244e5	7.703e3	6.516e3	1.18	NO	1.422e4	72.058	72.058	0.138

Total PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1													

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**Total Mono-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-1	15.67	15.68	8.230e6	2.345e6	4.579e5	1.341e5	3.42	NO	5.920e5	938.87		1.17
2	13C-PCB-3	18.33	18.34	8.532e6	2.426e6	5.141e5	1.442e5	3.57	NO	6.583e5	1031.3		1.16

**Total Di-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-4	19.69	19.69	3.888e6	2.490e6	2.343e5	1.471e5	1.59	NO	3.814e5	1018.6		0.581
2	13C-PCB-9	21.53	21.53	6.418e6	4.122e6	3.894e5	2.485e5	1.57	NO	6.379e5	1095.2		0.374
3	13C-PCB-11	25.01	25.01	7.032e6	4.491e6	4.377e5	2.781e5	1.57	NO	7.157e5	1259.1		0.383
4	13C-PCB-15	25.74	25.73	1.098e7	7.005e6	7.155e5	4.524e5	1.58	NO	1.168e6	1995.9		0.372

**2nd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-19	23.95	23.95	3.517e6	3.610e6	2.321e5	2.343e5	0.99	NO	4.664e5	1250.7		6.42
2	13C-PCB-32	26.97	26.95	5.649e6	5.721e6	3.705e5	3.735e5	0.99	NO	7.440e5	1397.2		4.50

**3rd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-31	28.90	28.88	6.827e6	6.464e6	5.186e5	4.956e5	1.05	NO	1.014e6	1995.9		4.33
2	13C-PCB-28	28.97	28.97	4.295e6	4.227e6	3.171e5	3.079e5	1.03	NO	6.250e5	1150.4		4.05
3	13C-PCB-37	32.97	32.99	4.420e6	4.291e6	3.371e5	3.224e5	1.05	NO	6.595e5	1352.6		4.52

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ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

**Tetra-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-54	27.83	27.82	3.427e6	4.545e6	2.557e5	3.388e5	0.75	NO	5.945e5	1057.7		0.907
2	13C-PCB-52	31.48	31.49	2.870e6	3.819e6	2.179e5	2.900e5	0.75	NO	5.079e5	1175.7		1.18
3	13C-PCB-47	32.00	32.02	2.990e6	3.977e6	2.405e5	3.191e5	0.75	NO	5.597e5	1224.2		1.11
4	13C-PCB-70	35.63	35.63	3.723e6	4.828e6	2.818e5	3.648e5	0.77	NO	6.467e5	1254.0		0.988
5	13C-PCB-80	36.06	36.08	3.817e6	5.002e6	2.933e5	3.849e5	0.76	NO	6.782e5	1267.1		0.952
6	13C-PCB-60	36.94	36.92	5.761e6	7.481e6	4.469e5	5.745e5	0.78	NO	1.021e6	1995.9		0.996
7	13C-PCB-79	38.05	38.02	4.082e6	5.217e6	3.096e5	3.980e5	0.78	NO	7.077e5	1339.9		0.965
8	13C-PCB-81	39.28	39.28	3.503e6	4.525e6	2.732e5	3.564e5	0.77	NO	6.296e5	1248.9		1.01
9	13C-PCB-77	39.89	39.90	3.287e6	4.422e6	2.616e5	3.486e5	0.75	NO	6.102e5	1244.1		1.04

**3rd Function Penta-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-104	32.67	32.68	5.357e6	3.476e6	3.983e5	2.569e5	1.55	NO	6.552e5	1204.1		0.390
2	13C-PCB-95	35.95	35.95	4.148e6	2.640e6	3.220e5	2.048e5	1.57	NO	5.268e5	1246.4		0.502
3	13C-PCB-101	37.70	37.70	3.989e6	2.578e6	3.141e5	2.009e5	1.56	NO	5.150e5	1276.1		0.526
4	13C-PCB-97	39.04	39.04	3.556e6	2.306e6	2.725e5	1.762e5	1.55	NO	4.487e5	1275.1		0.603
5	13C-PCB-111	39.51	39.49	7.839e6	5.121e6	6.005e5	3.896e5	1.54	NO	9.901e5	1995.9		0.428
6	13C-PCB-123	41.67	41.68	4.659e6	2.923e6	3.640e5	2.314e5	1.57	NO	5.955e5	1302.5		0.464
7	13C-PCB-118	41.86	41.87	4.818e6	3.001e6	3.901e5	2.442e5	1.60	NO	6.343e5	1311.6		0.439

**4th Function Penta-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-114	42.54	42.56	3.576e6	2.274e6	2.928e5	1.859e5	1.58	NO	4.787e5	1098.8		1.23
2	13C-PCB-105	43.43	43.45	3.530e6	2.263e6	2.920e5	1.867e5	1.56	NO	4.788e5	1054.7		1.18
3	13C-PCB-127	43.79	43.79	3.873e6	2.464e6	3.137e5	1.945e5	1.61	NO	5.081e5	1092.9		1.15
4	13C-PCB-126	45.74	45.76	3.330e6	2.096e6	2.835e5	1.789e5	1.58	NO	4.624e5	1115.8		1.29

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4th Function Hexa-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-153	43.61	43.60	3.337e6	2.685e6	2.664e5	2.139e5	1.25	NO	4.803e5	1176.6		0.942
2	13C-PCB-141	44.38	44.38	2.749e6	2.239e6	2.217e5	1.787e5	1.24	NO	4.004e5	1222.2		1.17
3	13C-PCB-138	45.23	45.23	2.923e6	2.350e6	2.331e5	1.881e5	1.24	NO	4.212e5	1244.9		1.14
4	13C-PCB-159	46.59	46.58	3.445e6	2.786e6	2.854e5	2.304e5	1.24	NO	5.158e5	1255.1		0.936
5	13C-PCB-128	46.86	46.84	4.041e6	3.159e6	3.200e5	2.522e5	1.27	NO	5.722e5	1995.9		1.34
6	13C-PCB-167	47.28	47.28	3.411e6	2.751e6	2.737e5	2.205e5	1.24	NO	4.942e5	1210.5		0.942
7	13C-PCB-156	48.60	48.60	3.487e6	2.775e6	2.766e5	2.239e5	1.24	NO	5.005e5	1249.2		0.960
8	13C-PCB-157	48.89	48.89	3.450e6	2.761e6	2.858e5	2.299e5	1.24	NO	5.157e5	1278.8		0.953
9	13C-PCB-169	51.16	51.16	3.208e6	2.527e6	2.713e5	2.116e5	1.28	NO	4.829e5	1251.1		0.996

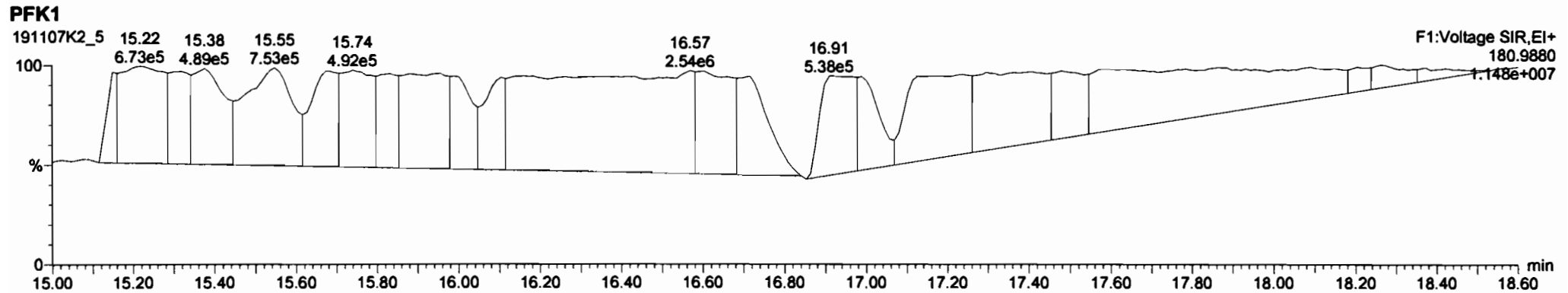
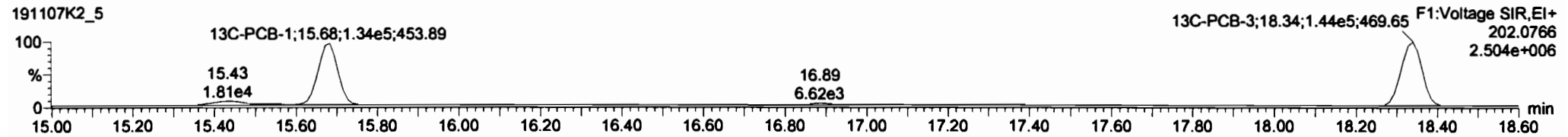
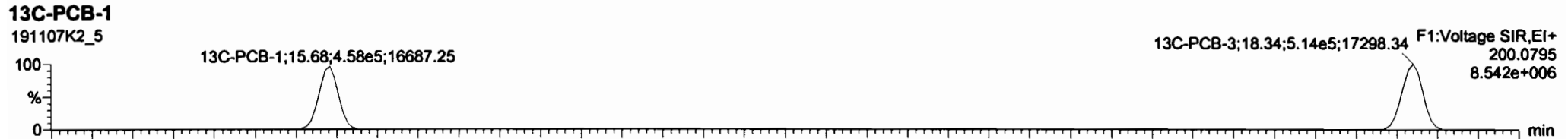
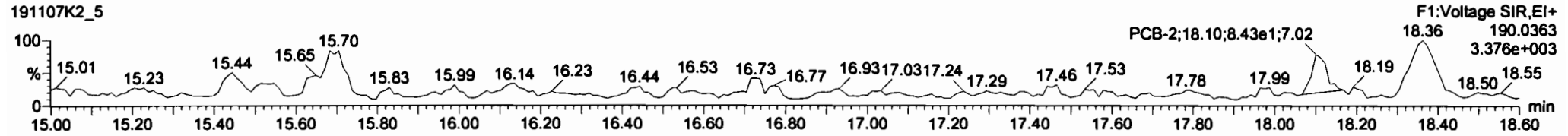
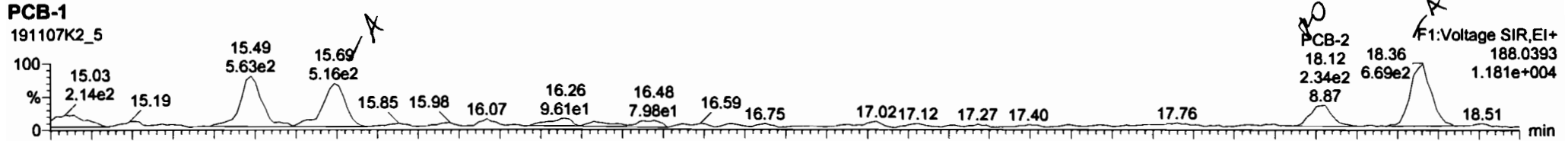
5th Function Octa-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-194	54.90	54.89	2.836e6	3.208e6	1.598e5	1.796e5	0.89	NO	3.394e5	1306.0		0.967
2	13C-PCB-205	55.16	55.16	5.985e6	6.588e6	3.437e5	3.833e5	0.90	NO	7.269e5	1995.9		0.690

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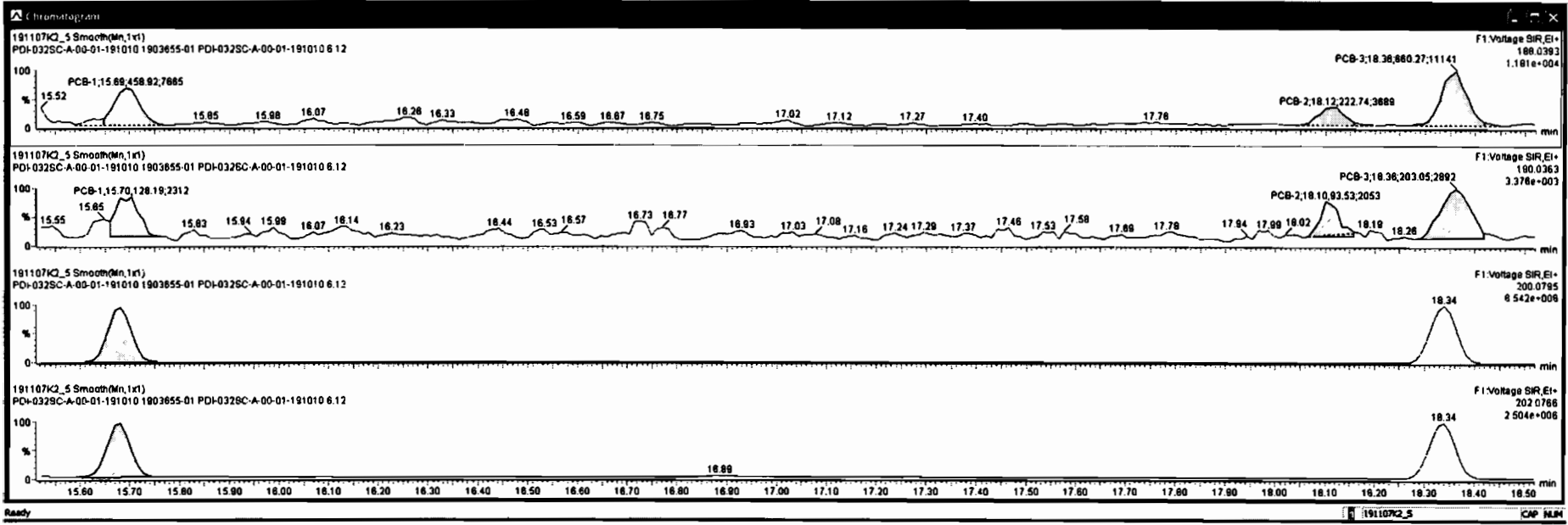
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Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010



#	Name	Resp	RA	n/y	R/F	int/nd	Prod.RT	RT	Prod.R.	R/R	R/R Fail	Conc.	%Spd	DL	EMPC
223	223 13C-PCB-178	3.48e5	0.44	NO	0.9748	5.010	46.12	46.10	0.824	0.823	NO	2020	101	1.20	
224	224 Total Mono-PCBs				1.8122	5.010	0.00		0.000		NO	4.630		0.701	6.422
225	225 Total Di-PCBs				1.0292	5.010	0.00		0.000		NO	38.87		13.2	43.47
226	226 2nd Function Tri-PCBs				0.9137	5.010	0.00		0.000		NO	141.8		2.48	141.8
227	227 3rd Function Tri-PCBs				1.0563	5.010	0.00		0.000		NO	622.3		8.17	628.0
228	228 Total Tetra-PCBs				0.9961	5.010	0.00		0.000		NO	2671		12.7	2691
229	229 3rd Function Penta-PCBs				1.1154	5.010	0.00		0.000		NO	3530		8.97	3605
230	230 4th Function Penta-PCBs				1.1112	5.010	0.00		0.000		NO	184.6		2.80	187.7

#	Name	Prod.RT	RT	int Resp	nd Resp	1* Ratio (Prod)	RA	n/y	EMPC	Conc.
1	PCB-1	15.80	15.80	4.598e2	1.282e2	3.130	3.58	NO	1.8395	1.8395
2	PCB-2	18.12	18.12	2.227e2	9.353e1	3.130	2.38	YES	0.86305	0.00000
3	PCB-3	18.35	18.36	6.803e2	2.031e2	3.130	3.25	NO	2.5883	2.5883

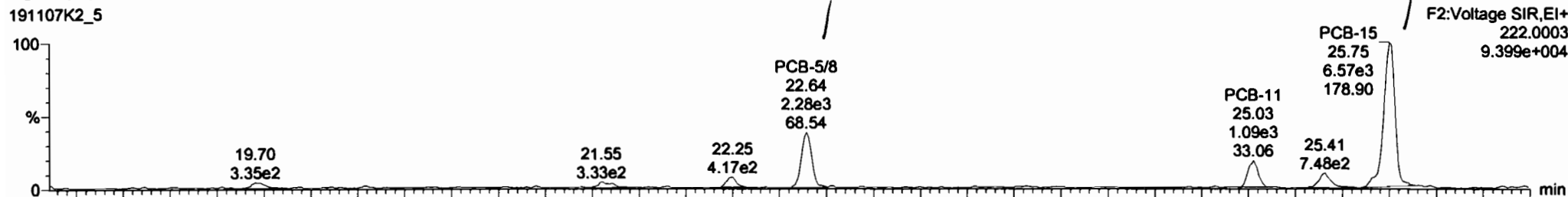


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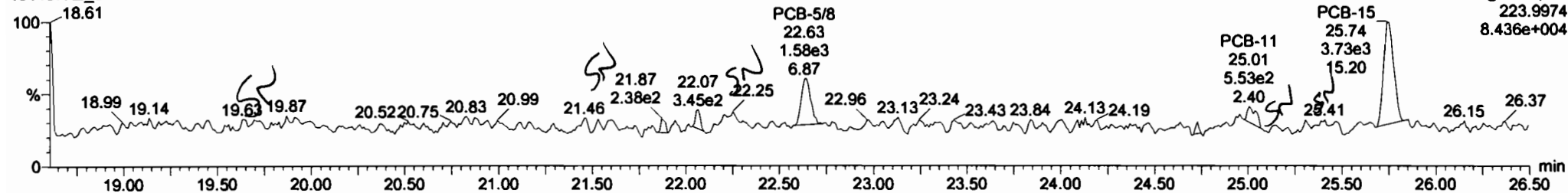
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Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

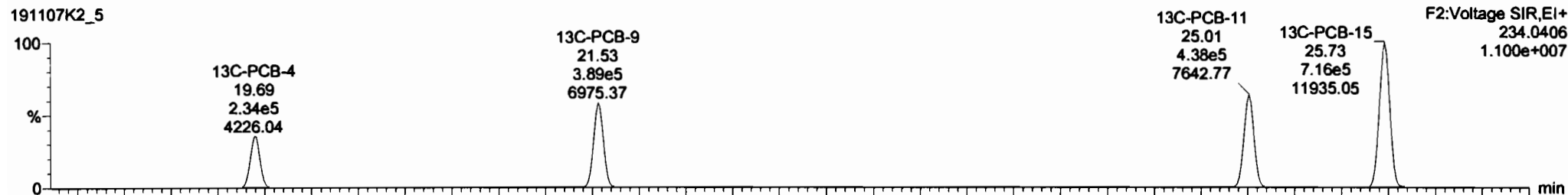
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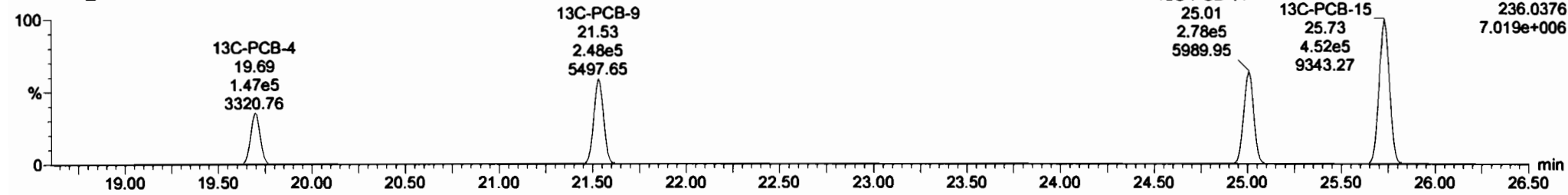
**191107K2\_5**



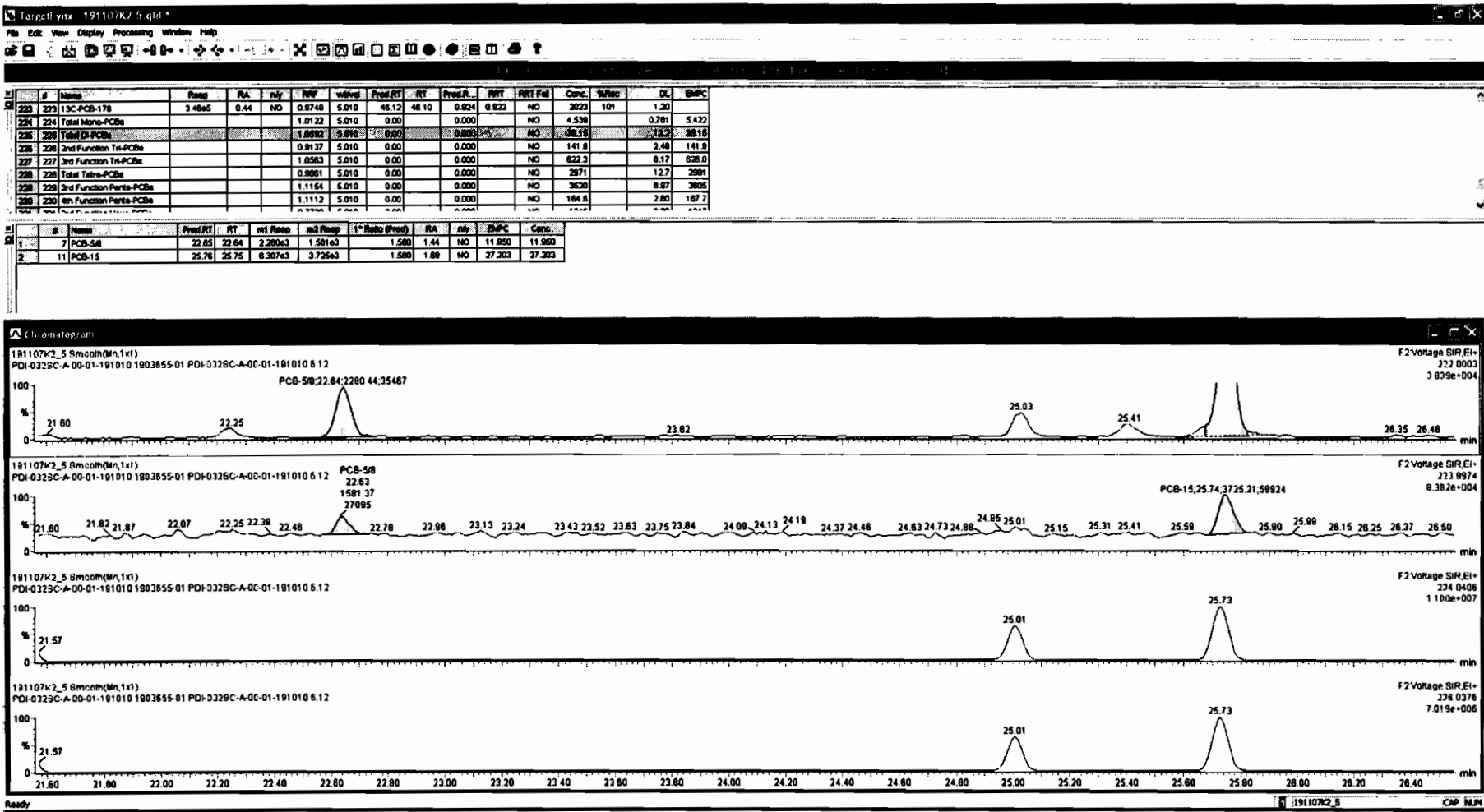
**13C-PCB-4**



**191107K2\_5**





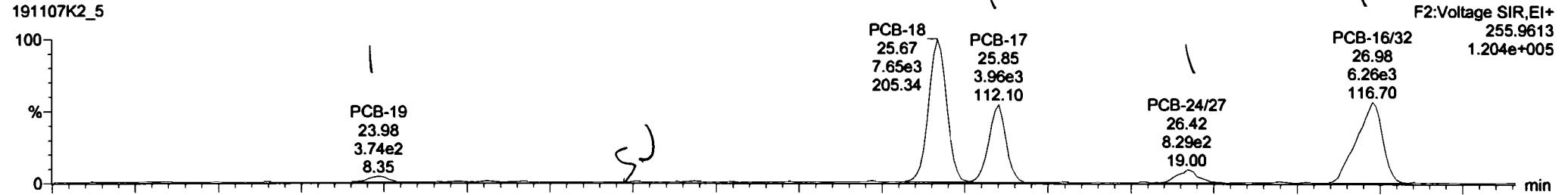


Dataset: Untitled

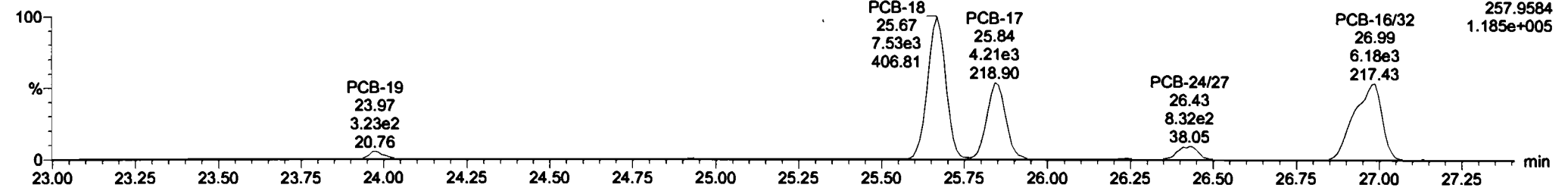
Last Altered: Friday, November 08, 2019 09:38:47 Pacific Standard Time  
Printed: Friday, November 08, 2019 09:38:56 Pacific Standard Time

Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

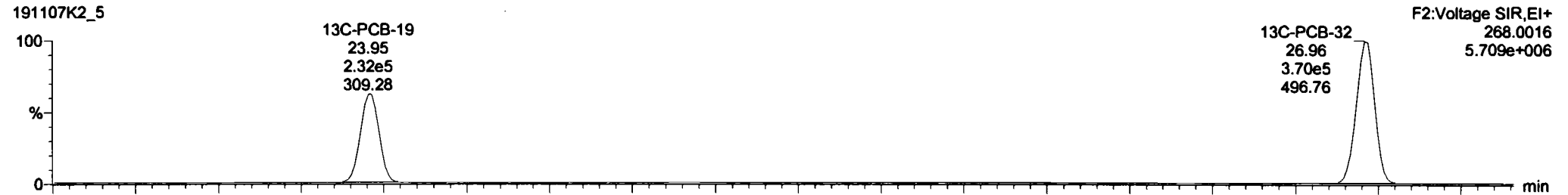
PCB-19



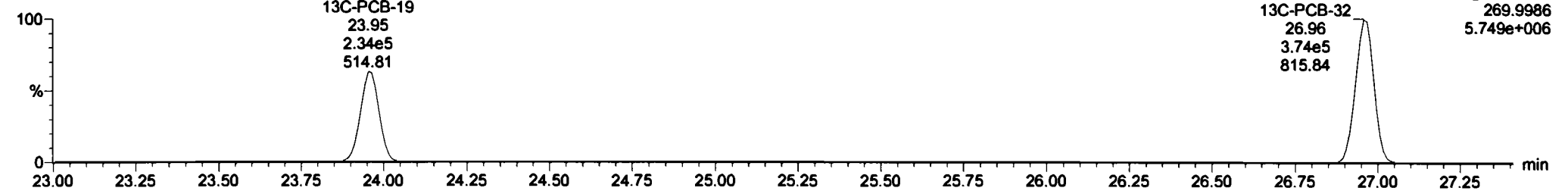
PCB-19



13C-PCB-19



13C-PCB-19

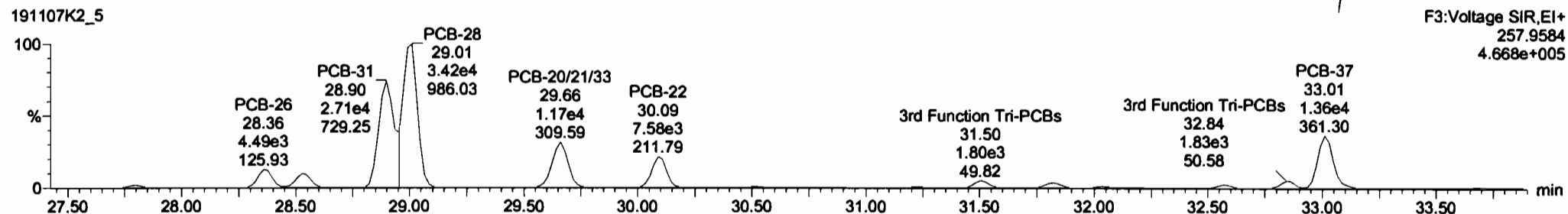
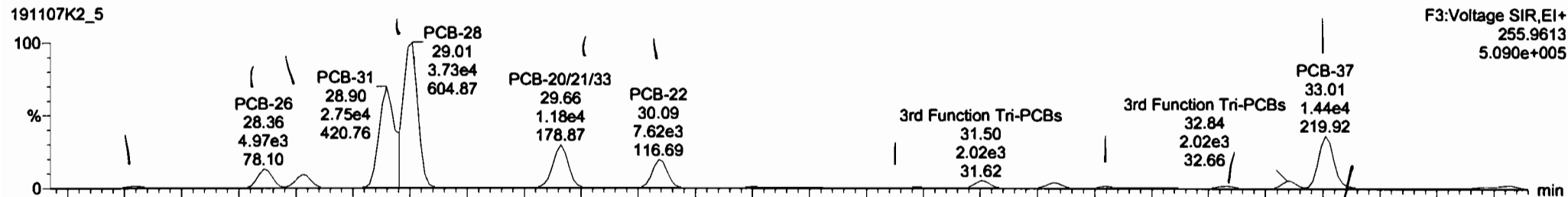


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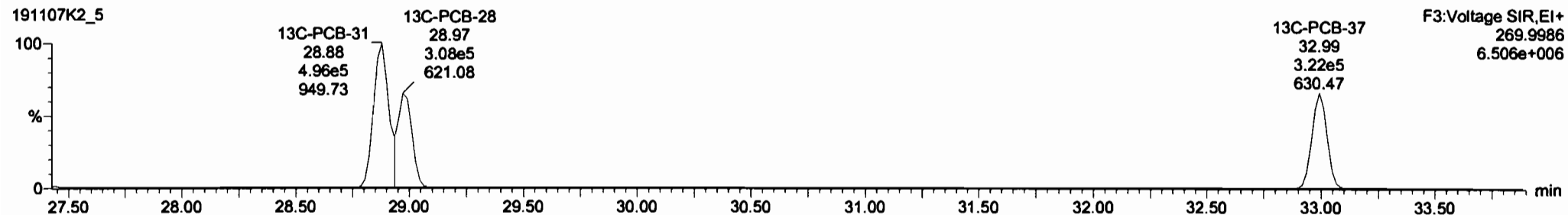
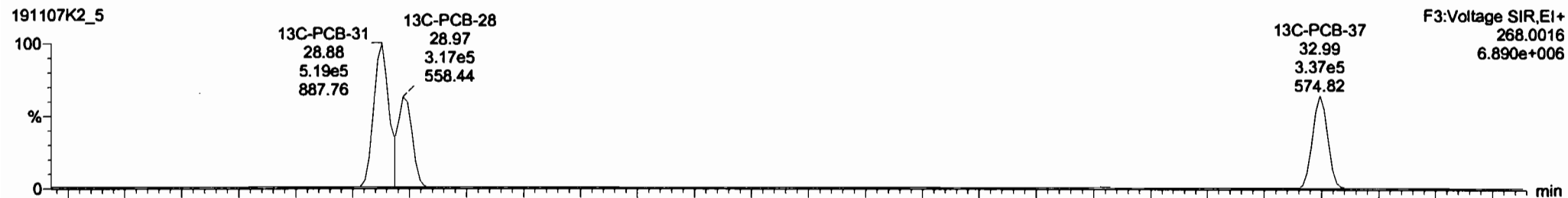
Last Altered: Friday, November 08, 2019 09:38:47 Pacific Standard Time  
Printed: Friday, November 08, 2019 09:38:56 Pacific Standard Time

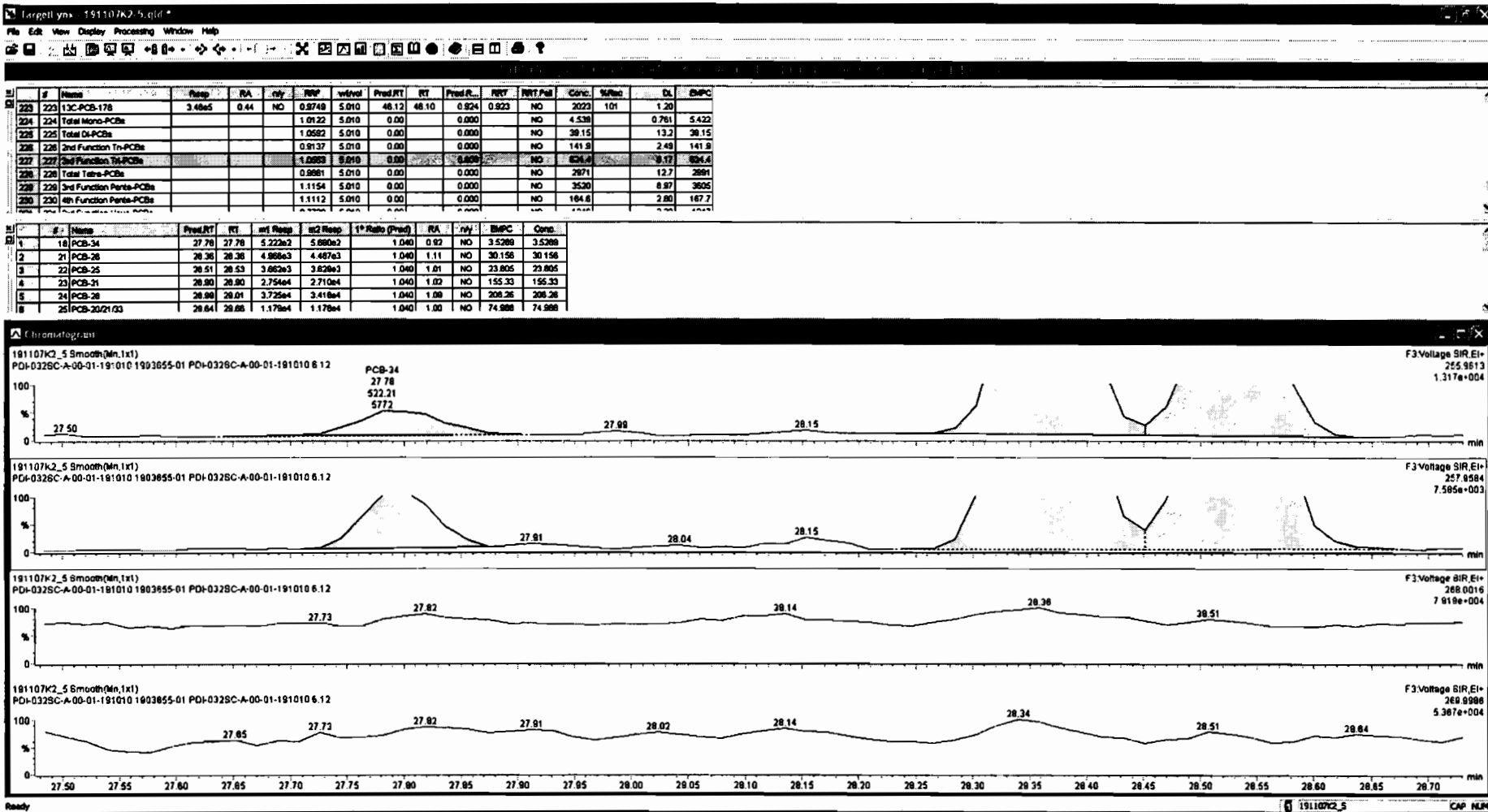
Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

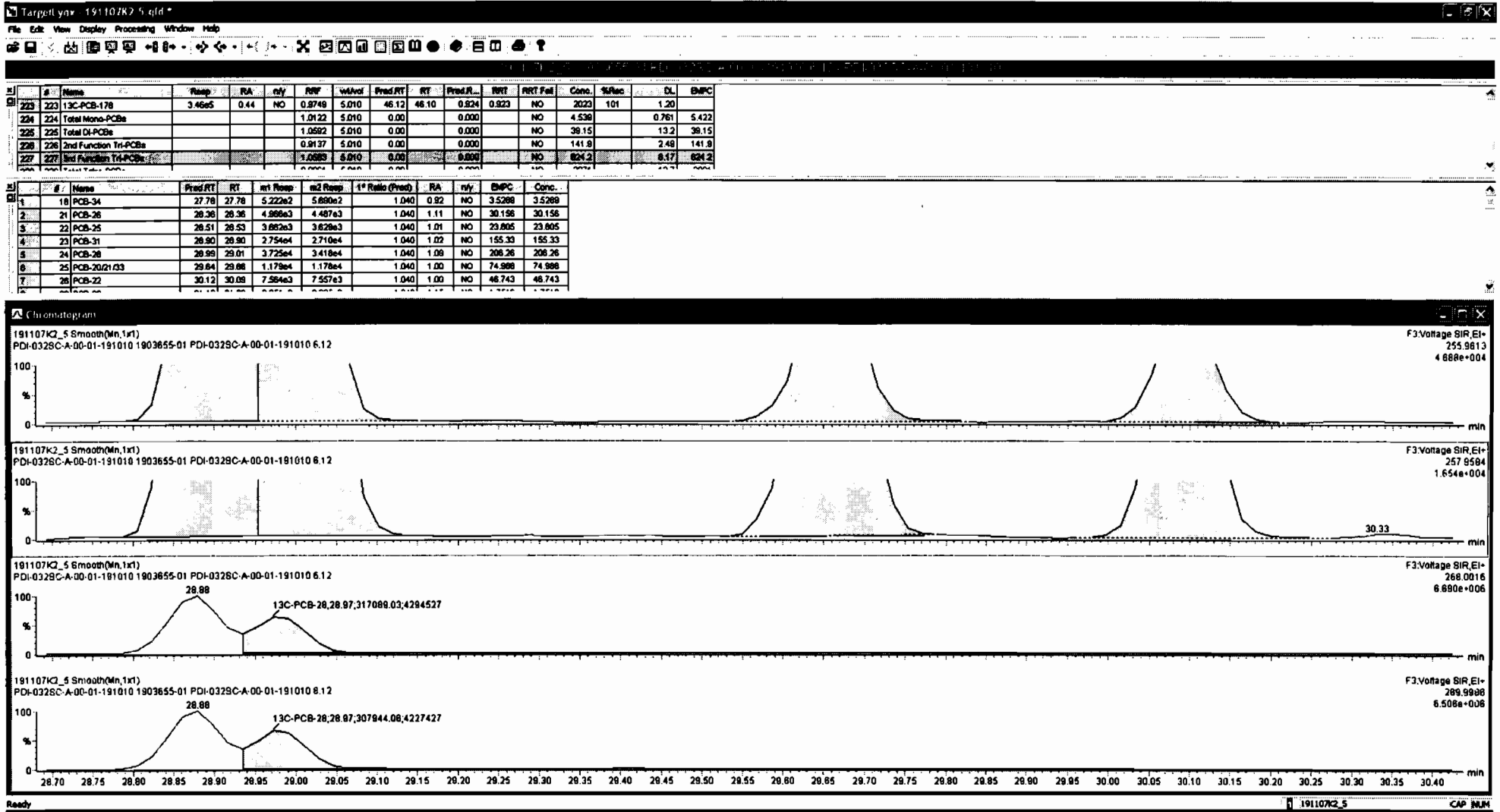
**PCB-34**

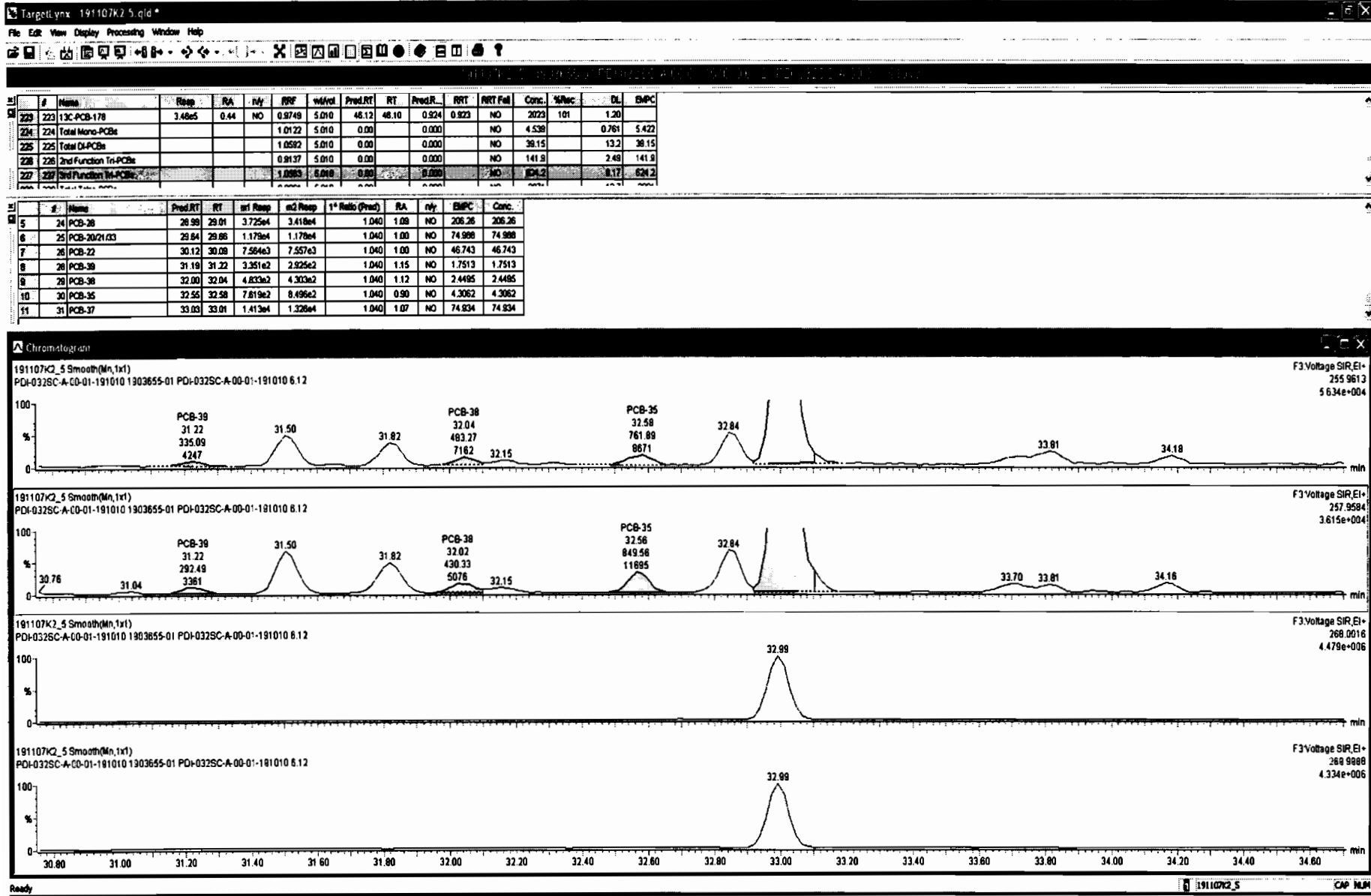


**13C-PCB-28**







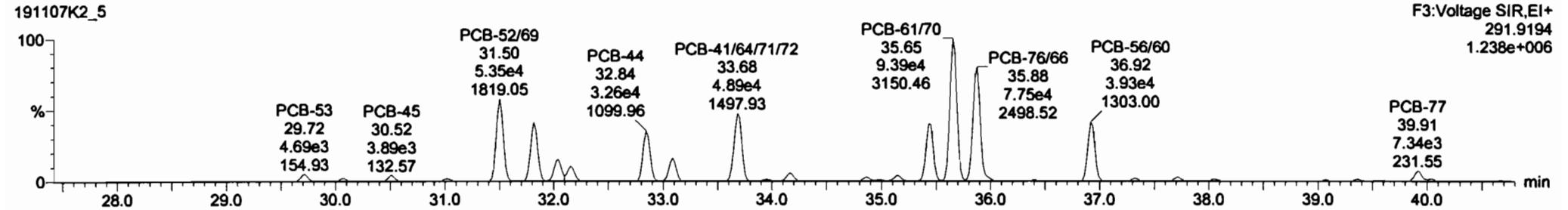
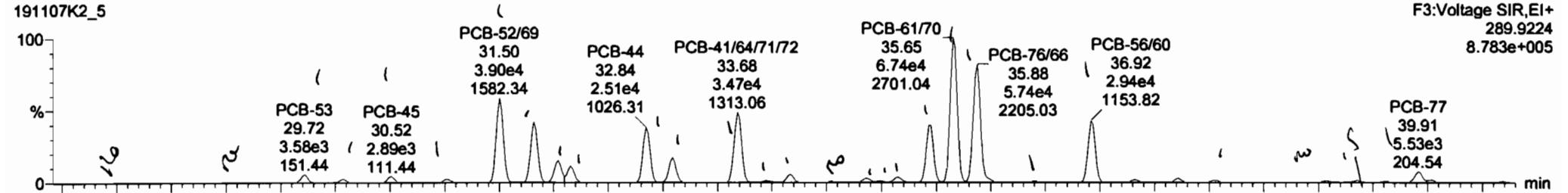


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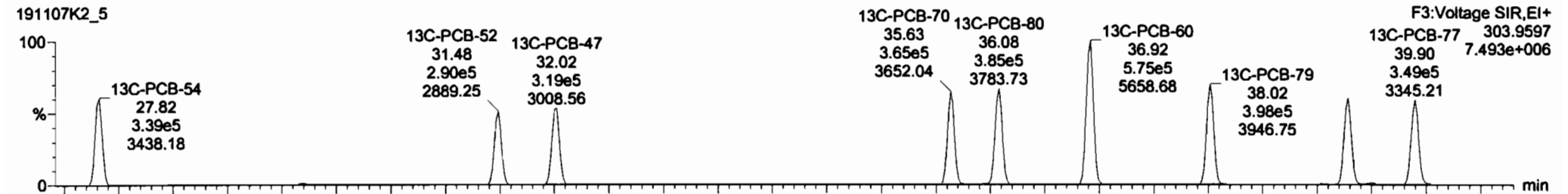
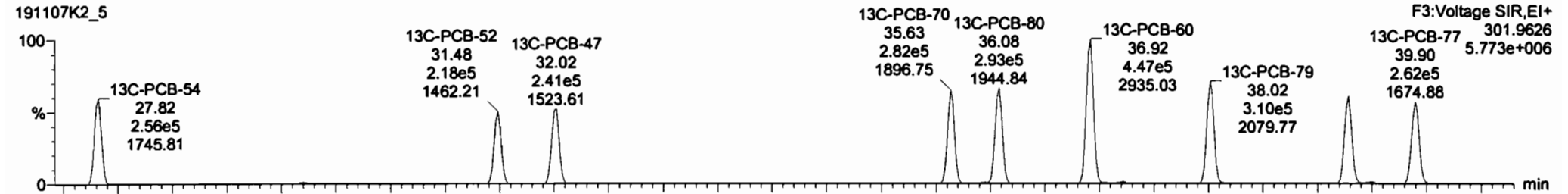
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Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

PCB-54



13C-PCB-54



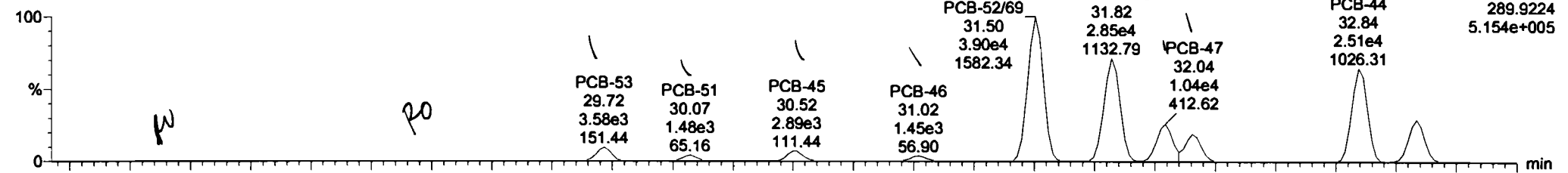
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Printed: Friday, November 08, 2019 09:38:56 Pacific Standard Time

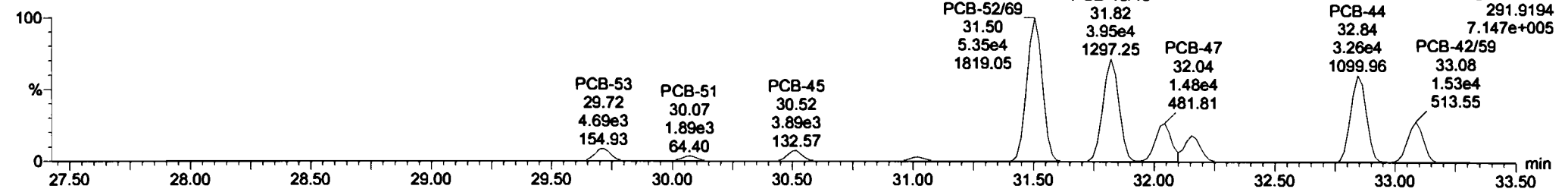
Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

**PCB-50**

191107K2\_5

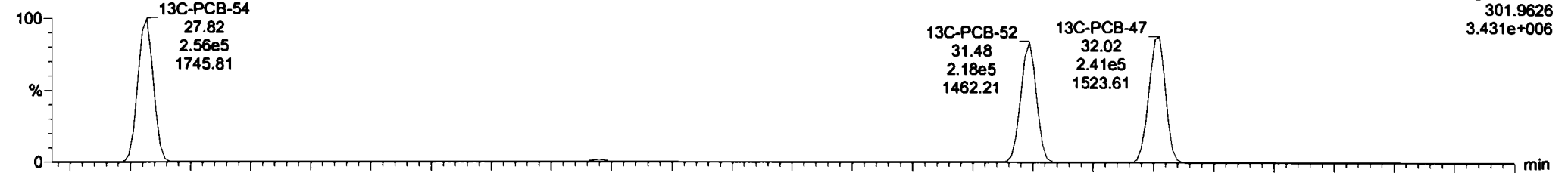


191107K2\_5

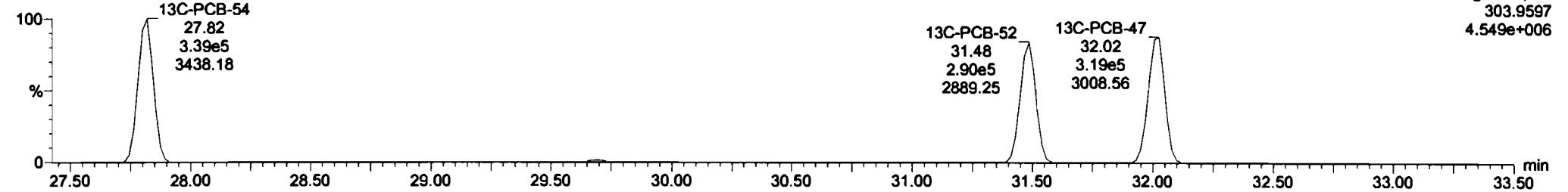


**13C-PCB-52**

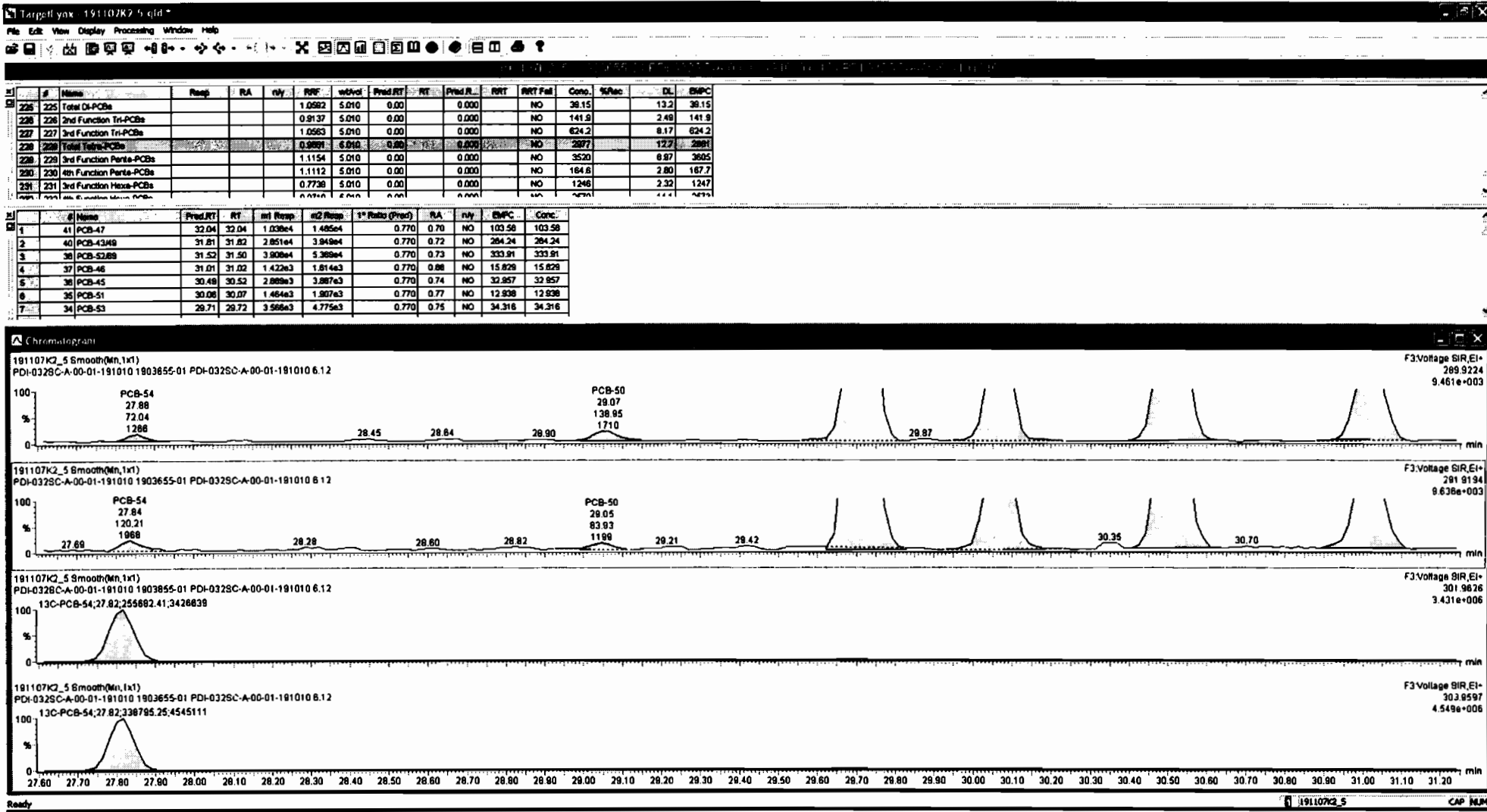
191107K2\_5



191107K2\_5

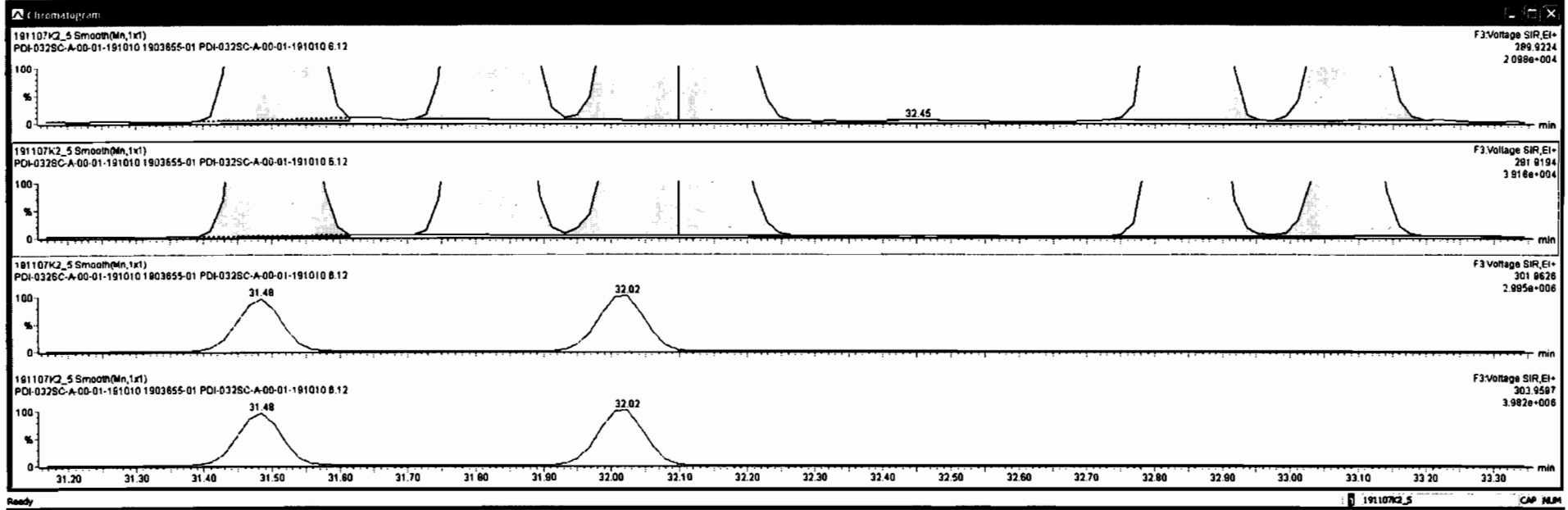






#	Name	Resp	RA	nly	FWF	valVol	Pred.RT	RT	Pred.R...	PRT	PRT Fail	Conc	%Rec	DL	EMPC
225	Total Di-PCBs				1.0582	5.010	0.00		0.000		NO	38.15		13.2	38.15
226	2nd Function Tri-PCBs				0.9137	5.010	0.00		0.000		NO	141.9		2.48	141.9
227	3rd Function Tri-PCBs				1.0583	5.010	0.00		0.000		NO	624.2		8.17	624.2
228	Total Tetra-PCBs				0.8801	5.010	0.00		0.000		NO	2877		12.7	2881
229	3rd Function Penta-PCBs				1.1154	5.010	0.00		0.000		NO	3520		8.87	3805
230	4th Function Penta-PCBs				1.1112	5.010	0.00		0.000		NO	164.6		2.80	167.7
231	3rd Function Hexa-PCBs				0.7738	5.010	0.00		0.000		NO	1248		2.32	1247

#	Name	Pred.RT	RT	ret Resp	in2 Resp	1+ Ratio (Pred)	RA	nly	EMPC	Conc.
8	PCB-47	32.04	32.04	1.038e4	1.485e4	0.770	0.70	NO	103.58	103.58
10	PCB-48/75	32.16	32.15	7.867e3	1.021e4	0.770	0.75	NO	82.253	82.253
11	PCB-44	32.86	32.84	2.505e4	3.260e4	0.770	0.77	NO	270.18	270.18
12	PCB-42/58	33.08	33.08	1.158e4	1.532e4	0.770	0.75	NO	99.851	99.851
13	PCB-41/84/71/72	33.72	33.88	3.481e4	4.805e4	0.770	0.71	NO	278.44	278.44
14	PCB-58	34.01	33.84	7.854e2	1.054e3	0.770	0.75	NO	5.9158	5.9158
15	PCB-40	34.23	34.16	3.885e3	5.418e3	0.770	0.88	NO	56.363	56.363

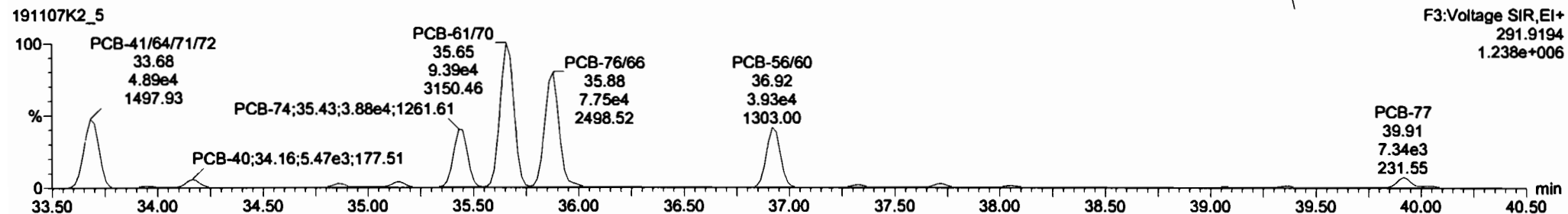
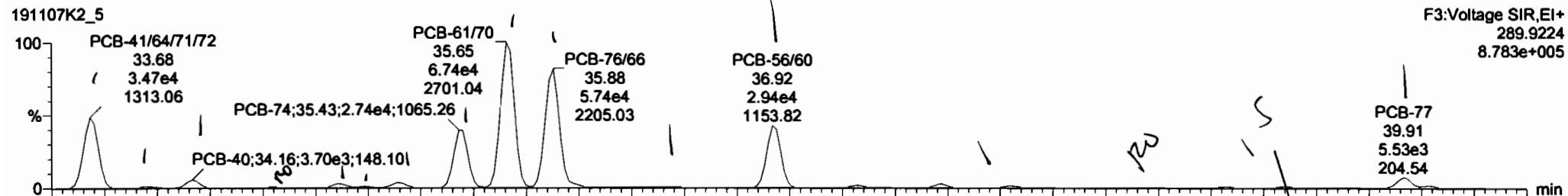


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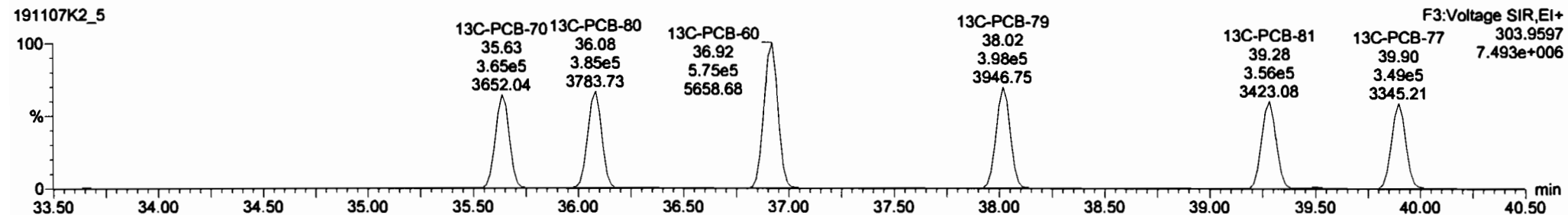
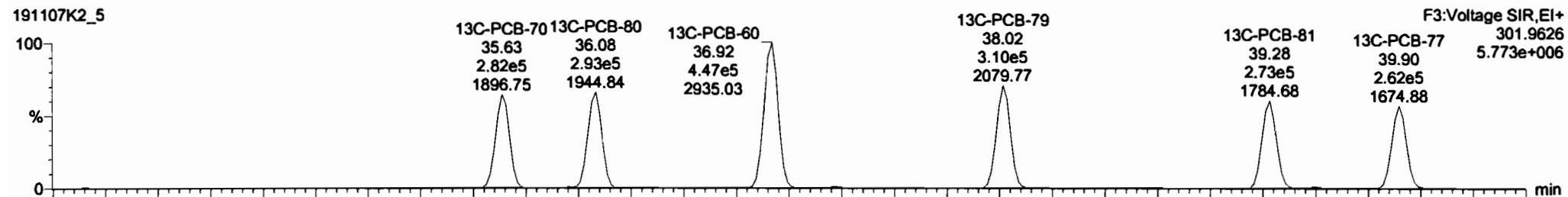
Last Altered: Friday, November 08, 2019 09:38:47 Pacific Standard Time  
Printed: Friday, November 08, 2019 09:38:56 Pacific Standard Time

Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

PCB-68



13C-PCB-60

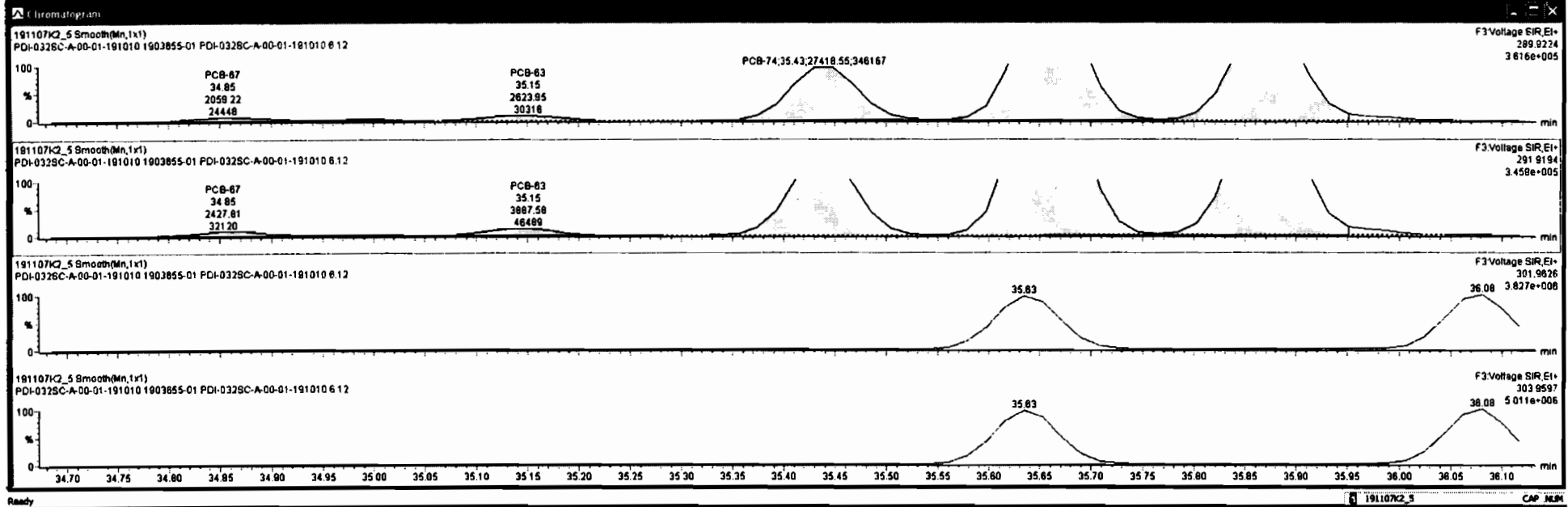


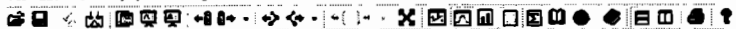




#	Name	Reop	RA	nY	RWF	WMSL	Pred.RT	RT	Pred.R...	RWT	RRT Fail	Conc.	%Rec	DL	EMPC
225	Total DI-PCBs				1.0582	5.010	0.00		0.000		NO	38.15		13.2	38.15
226	2nd Function Tri-PCBs				0.9137	5.010	0.00		0.000		NO	141.9		2.48	141.9
227	3rd Function Tri-PCBs				1.0583	5.010	0.00		0.000		NO	624.2		8.17	624.2
228	Total Tetra-PCBs				0.8891	0.810	0.00		0.880		NO	2877		12.7	2881
229	3rd Function Penta-PCBs				1.1154	5.010	0.00		0.000		NO	3520		8.87	3805
230	4th Function Penta-PCBs				1.1112	5.010	0.00		0.000		NO	164.8		2.80	167.7
231	3rd Function Hexa-PCBs				0.7738	5.010	0.00		0.000		NO	1246		2.32	1247

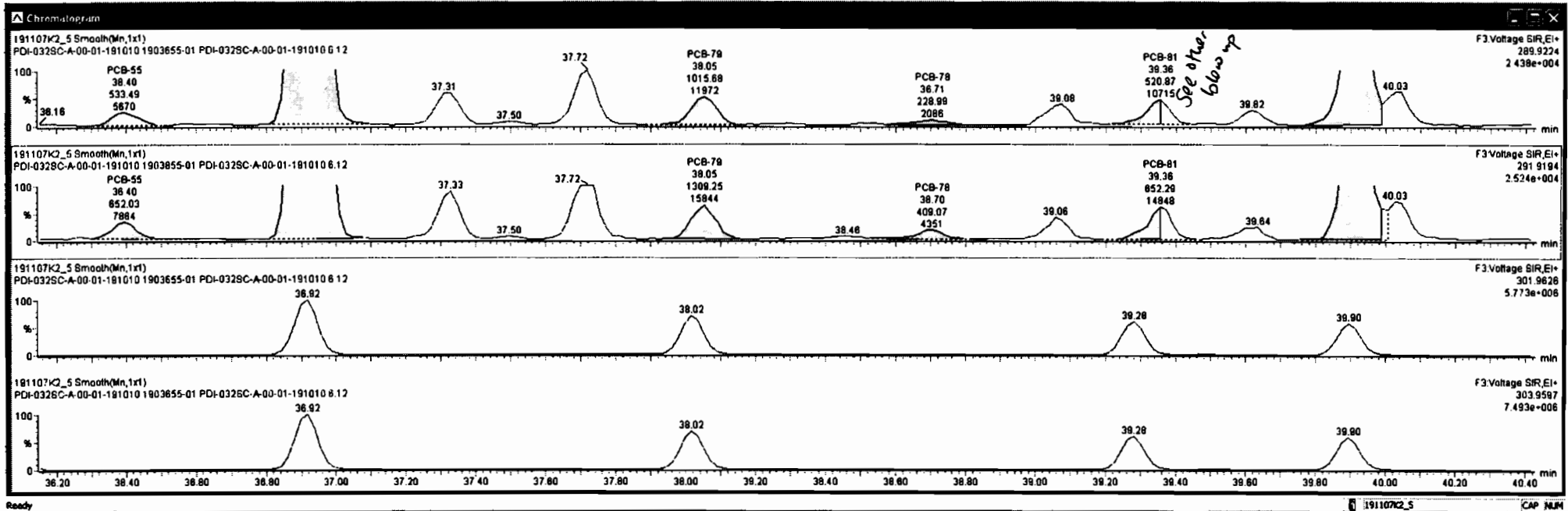
#	Name	Pred.RT	RT	m1 Reop	m2 Reop	1* Ratio (Pred)	RA	nY	EMPC	Conc.
22	PCB-76/88	35.81	35.88	5.574e4	7.612e4	0.770	0.73	NO	381.74	381.74
23	PCB-55	36.42	36.40	5.335e2	6.520e2	0.770	0.82	NO	3.2683	3.2683
24	PCB-56/60	36.98	36.82	2.934e4	3.936e4	0.770	0.75	NO	216.37	216.37
25	PCB-78	36.08	36.05	1.018e3	1.308e3	0.770	0.78	NO	6.5483	6.5483
26	PCB-79	36.76	36.71	2.290e2	4.091e2	0.770	0.56	YES	1.6171	0.00000
27	PCB-81	36.30	36.36	5.209e2	6.523e2	0.770	0.80	NO	3.9858	3.9858
28	PCB-77	36.92	36.91	5.528e3	7.080e3	0.770	0.78	NO	38.868	38.868





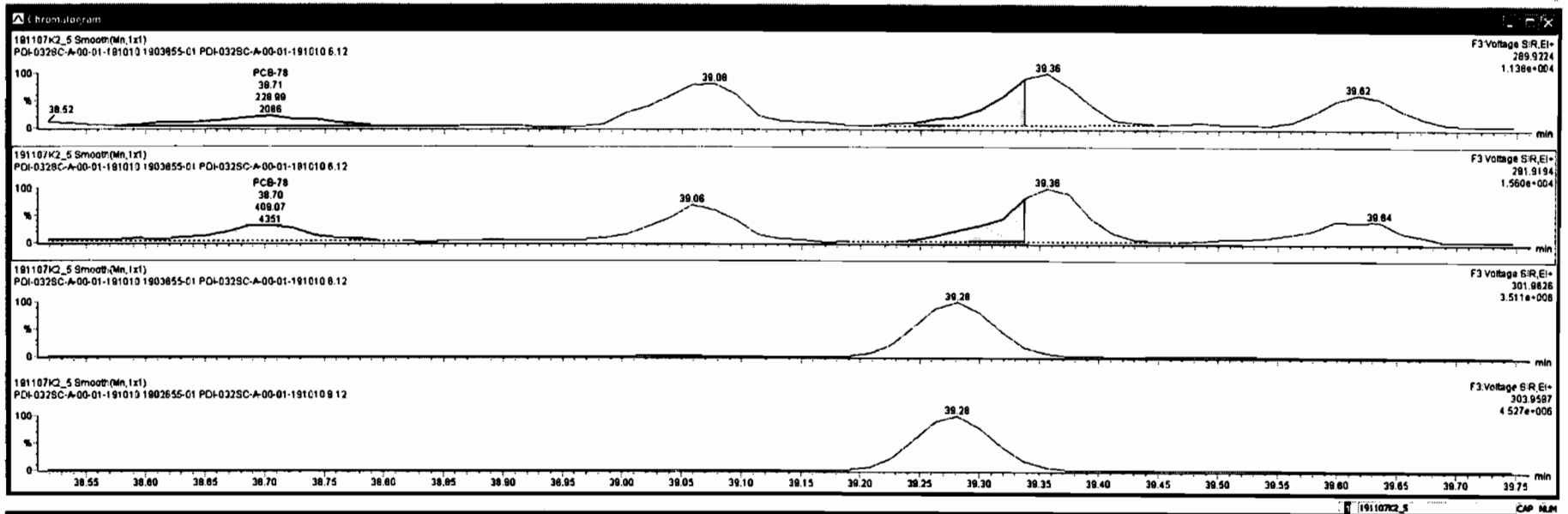
#	Name	Resp	RA	n/y	RFP	wAve	Prod.RT	RT	Prod.R...	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
225	Total Di-PCBs				1.0562	5.010	0.00		0.000		NO	38.15		13.2	38.15
226	2nd Function Tri-PCBs				0.9137	5.010	0.00		0.000		NO	141.8		2.48	141.8
227	3rd Function Tri-PCBs				1.0563	5.010	0.00		0.000		NO	624.2		8.17	624.2
228	Total Tetra-PCBs				0.8801	5.010	0.00		0.000		NO	3877		12.7	3881
229	3rd Function Penta-PCBs				1.1154	5.010	0.00		0.000		NO	3520		6.87	3505
230	4th Function Penta-PCBs				1.1112	5.010	0.00		0.000		NO	184.8		2.80	187.7
231	3rd Function Hexa-PCBs				0.7738	5.010	0.00		0.000		NO	1248		2.32	1247

#	Name	Prod.RT	RT	ref Resp	std Resp	* Ratio (Prod)	RA	n/y	EMPC	Conc.
22	PCB-76/68	35.81	35.88	5.574e4	7.812e4	0.770	0.73	NO	381.74	381.74
23	PCB-55	36.42	36.40	5.335e2	6.520e2	0.770	0.82	NO	3.2883	3.2883
24	PCB-56/60	36.96	36.82	2.834e4	3.836e4	0.770	0.75	NO	216.37	216.37
25	PCB-78	38.06	38.05	1.018e3	1.308e3	0.770	0.78	NO	6.5483	6.5483
26	PCB-76	38.78	38.71	2.280e2	4.081e2	0.770	0.58	YES	1.8171	0.00000
27	PCB-81	39.30	39.36	5.209e2	6.523e2	0.770	0.80	NO	3.8658	3.8658
28	PCB-77	39.92	39.91	5.528e3	7.080e3	0.770	0.78	NO	39.868	39.868



#	Name	Resp	RA	rv	RPF	wt/drd	Pred_RT	RT	Pred_R...	RRT	RRT Fall	Conc.	%Rec	DL	BMPc
225	225 Total D-PCBs				1.0582	5.010	0.00		0.000		NO	38.15		13.2	38.15
226	226 2nd Function TH-PCBs				0.9137	5.010	0.00		0.000		NO	141.8		2.48	141.8
227	227 3rd Function TH-PCBs				1.0583	5.010	0.00		0.000		NO	824.2		8.17	824.2
228	228 Total Tri-PCBs				0.0091	5.248	0.00		0.000		NO	2878		12.2	2880
229	229 3rd Function Penta-PCBs				1.1154	5.010	0.00		0.000		NO	3520		6.87	3525
230	230 4th Function Penta-PCBs				1.1112	5.010	0.00		0.000		NO	164.8		2.80	167.7
231	231 3rd Function Hexa-PCBs				0.7728	5.010	0.00		0.000		NO	1248		2.32	1247

#	Name	Pred_RT	RT	int Resp	ext Resp	1* Ratio (Pred)	RA	rv	BMPc	Conc.
22	58 PCB-76-68	35.81	35.88	5.574e4	7.812e4	0.770	0.73	NO	381.74	381.74
23	58 PCB-55	36.42	36.40	5.335e2	6.520e2	0.770	0.82	NO	3.2883	3.2883
24	59 PCB-58-60	38.98	38.82	2.934e4	3.938e4	0.770	0.75	NO	218.37	218.37
25	80 PCB-79	38.08	38.05	1.018e3	1.308e3	0.770	0.78	NO	6.5483	6.5483
26	81 PCB-78	38.78	38.71	2.280e2	4.081e2	0.770	0.58	YES	1.8171	0.00000
27	82 PCB-81	38.30	38.34	3.285e2	3.973e2	0.770	0.83	NO	2.4882	2.4882
28	83 PCB-77	38.82	38.91	5.528e3	7.080e3	0.770	0.78	NO	38.888	38.888



Dataset: Untitled

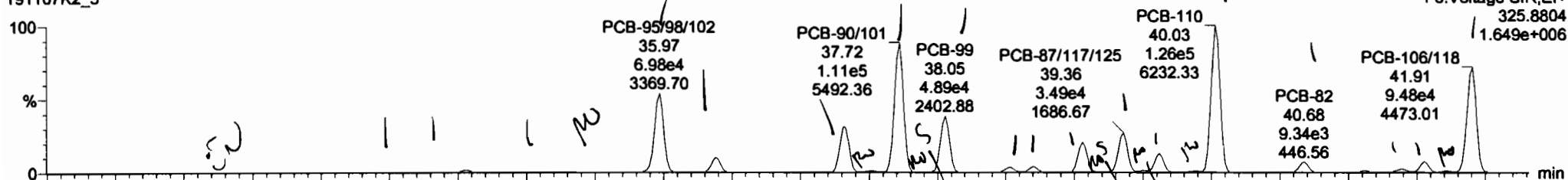
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Printed: Friday, November 08, 2019 09:38:56 Pacific Standard Time

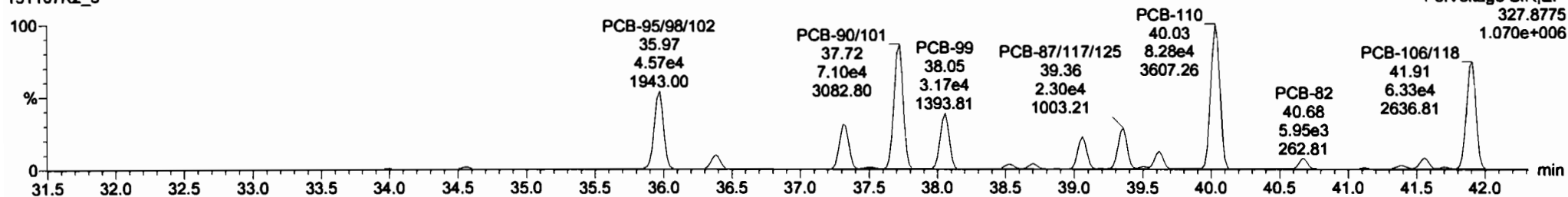
Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

**PCB-104**

191107K2\_5

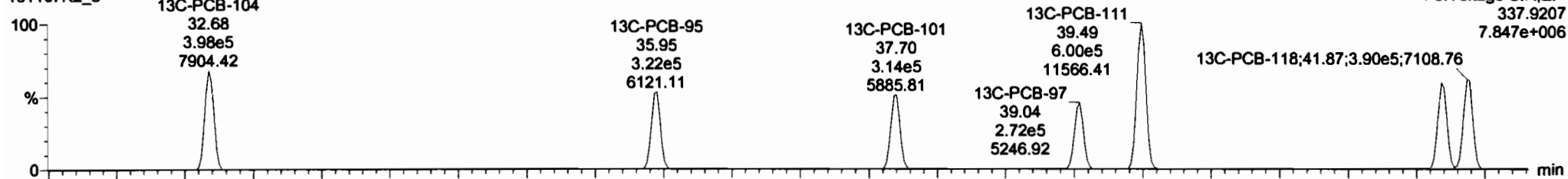


191107K2\_5

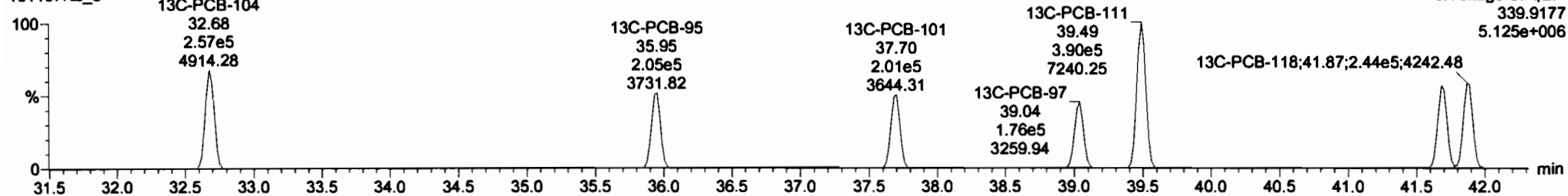


**13C-PCB-104**

191107K2\_5



191107K2\_5





Dataset: Untitled

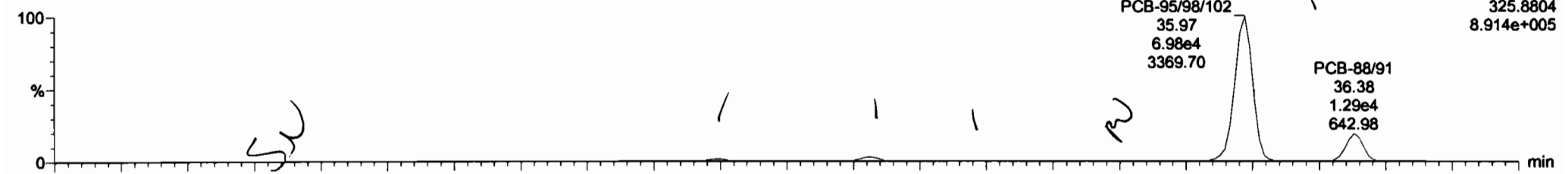
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Printed: Friday, November 08, 2019 09:38:56 Pacific Standard Time

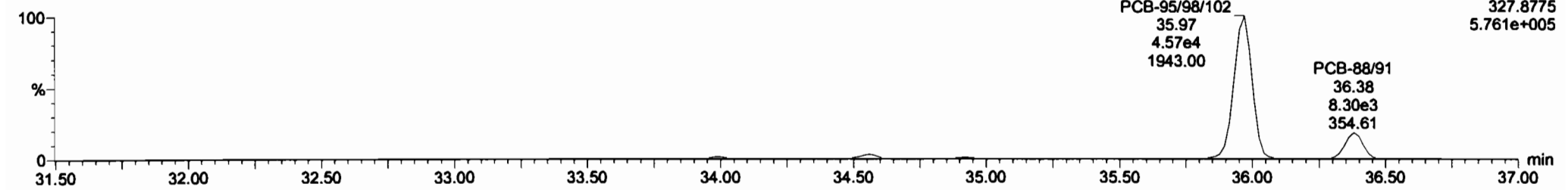
Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

**PCB-96**

191107K2\_5

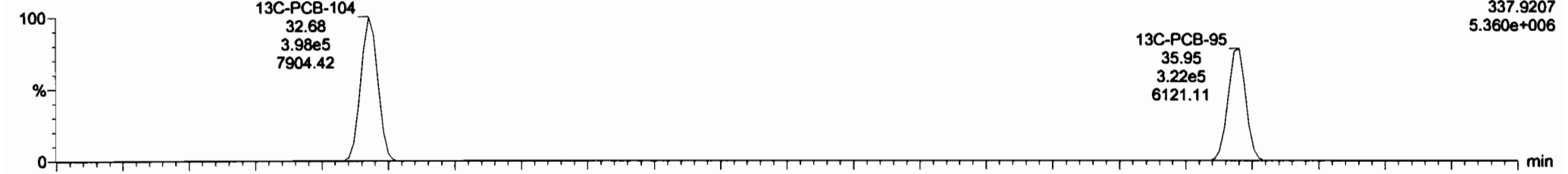


191107K2\_5

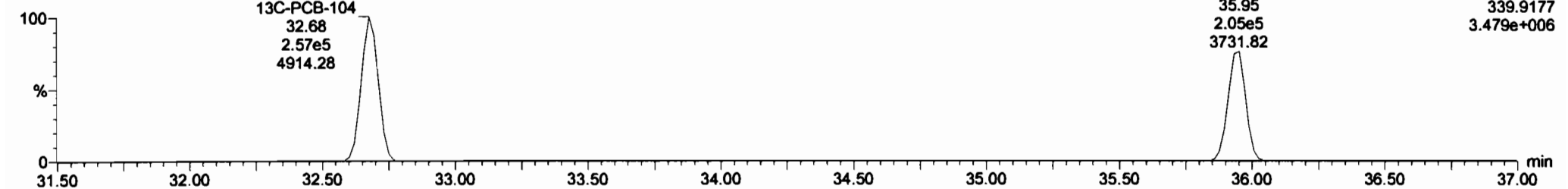


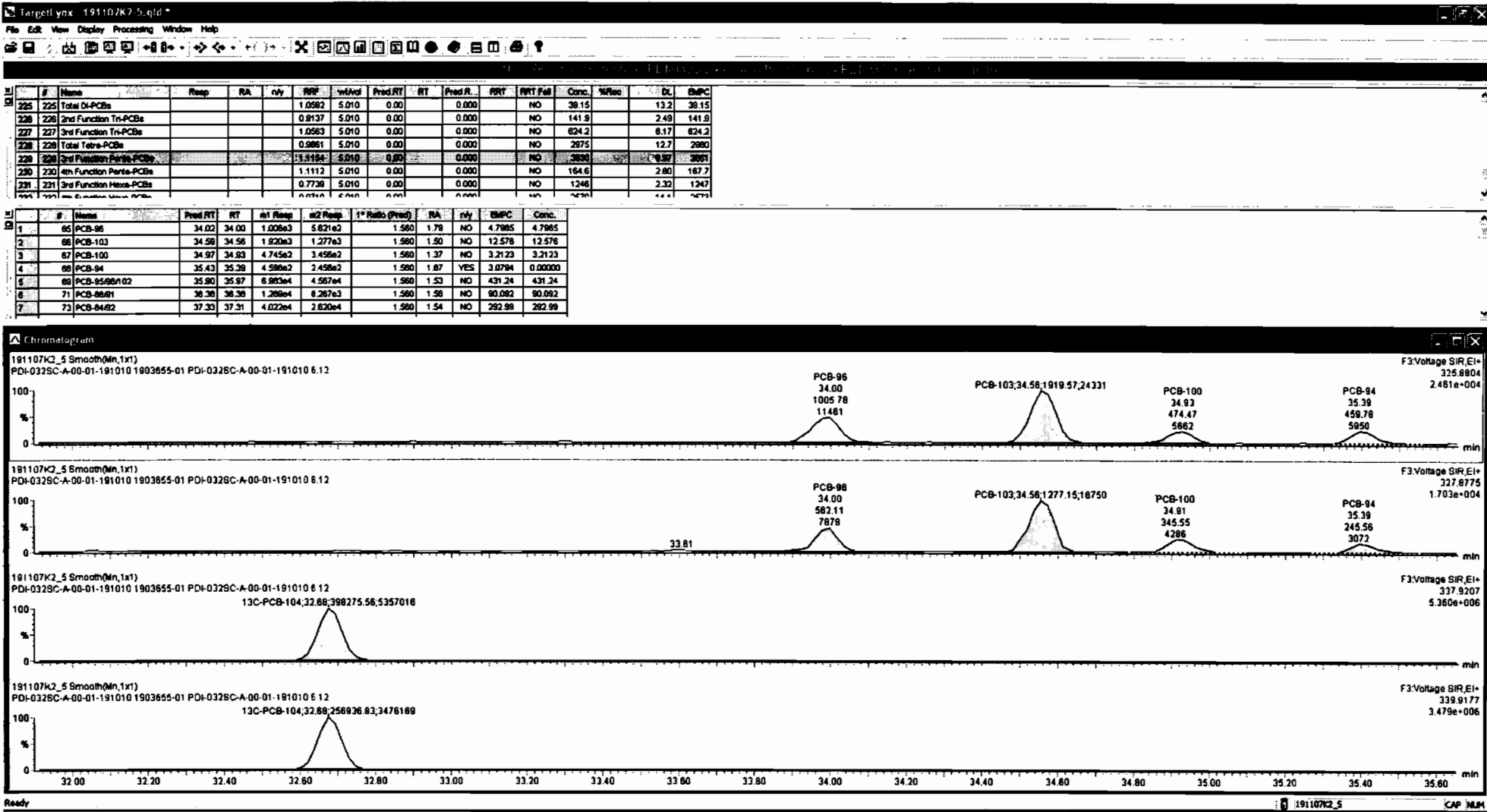
**13C-PCB-95**

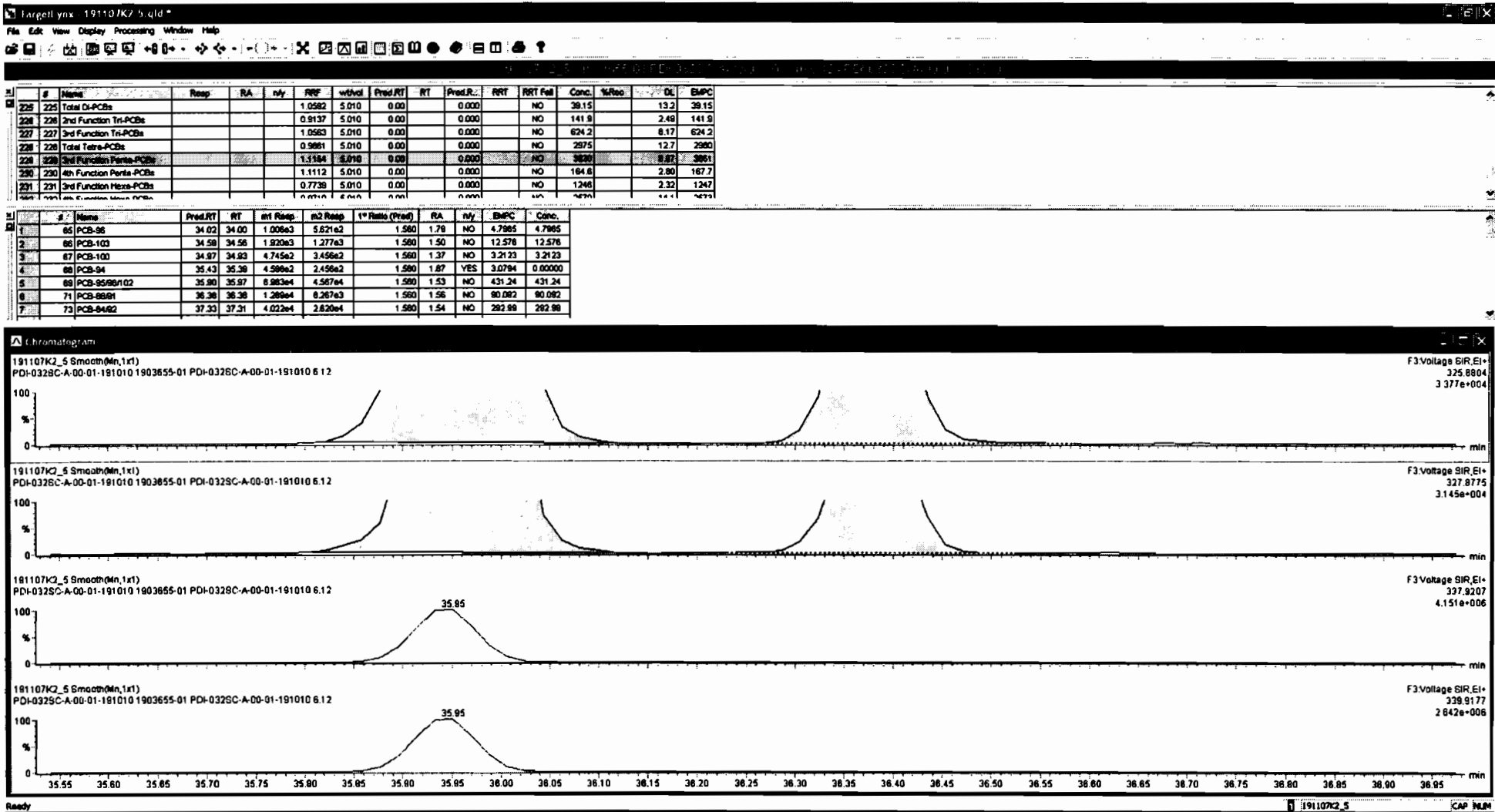
191107K2\_5



191107K2\_5





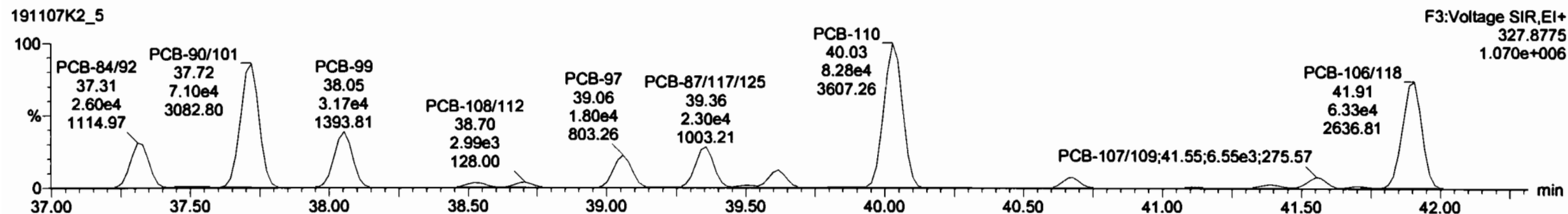
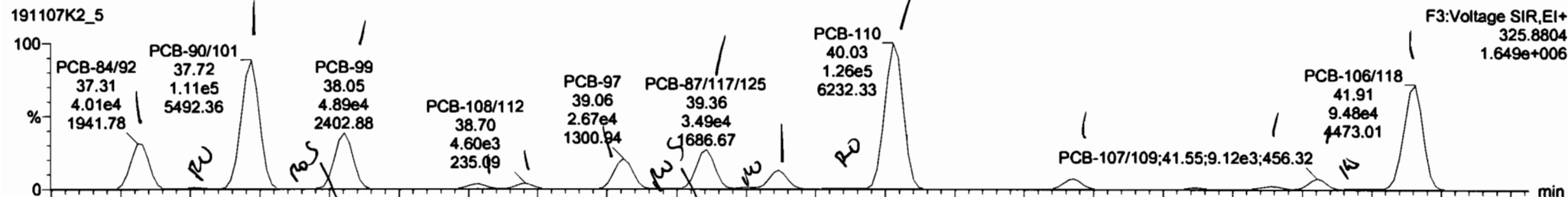


Dataset: Untitled

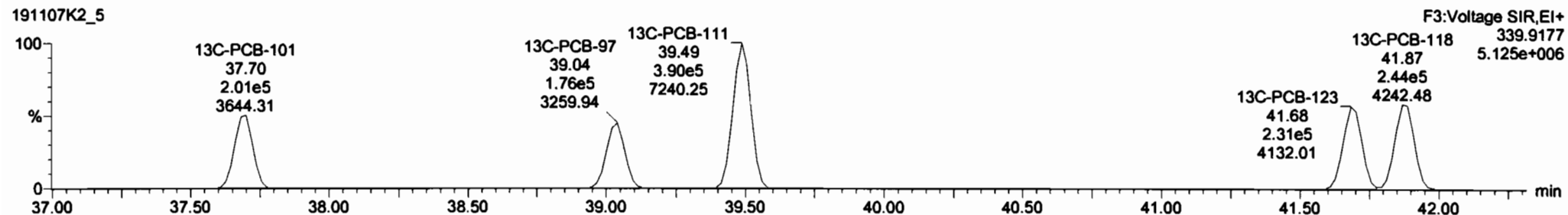
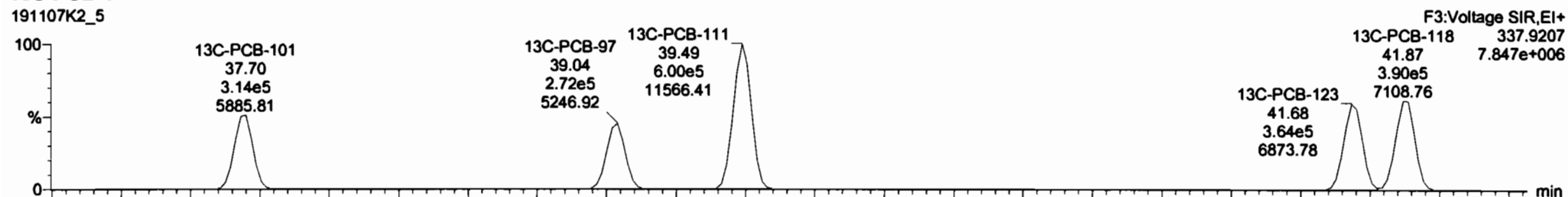
Last Altered: Friday, November 08, 2019 09:38:47 Pacific Standard Time  
Printed: Friday, November 08, 2019 09:38:56 Pacific Standard Time

Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

PCB-119

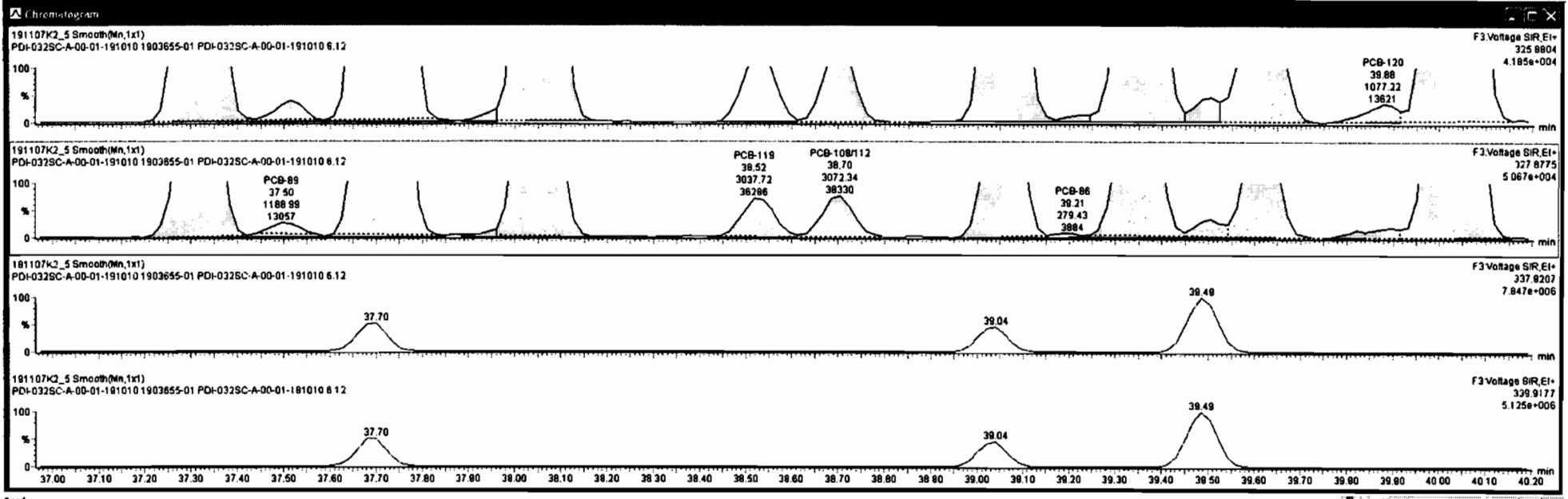


13C-PCB-111



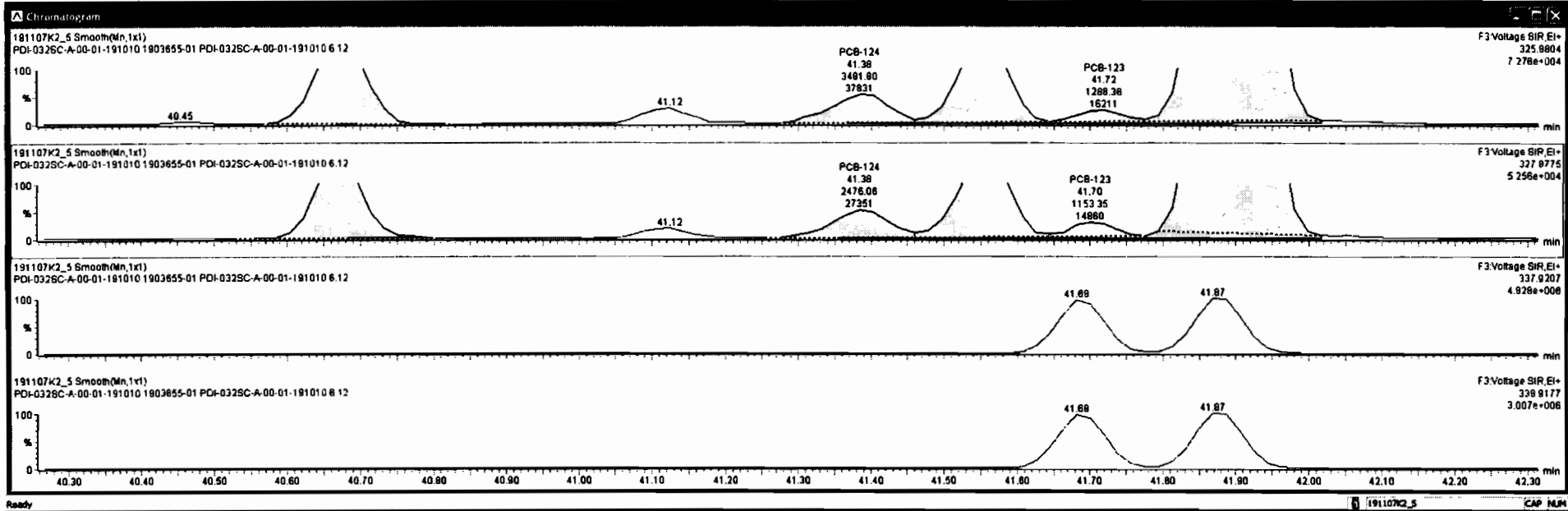
#	Name	Resp	RA	rvy	RF	wfRet	Pred_RT	RT	Pred_R	RRT	RRT Fail	Comp	%Rec	DL	EMPC
225	Total DI-PCBs				1.0582	5.010	0.00		0.000		NO	38.15		13.2	38.15
226	2nd Function Tri-PCBs				0.9137	5.010	0.00		0.000		NO	141.8		2.48	141.8
227	3rd Function Tri-PCBs				1.0583	5.010	0.00		0.000		NO	624.2		6.17	624.2
228	Total Tetra-PCBs				0.9861	5.010	0.00		0.000		NO	2675		12.7	2680
228	3rd Function Penta-PCBs				1.1184	5.010	0.00		0.000		NO	3830		8.97	3881
230	4th Function Penta-PCBs				1.1112	5.010	0.00		0.000		NO	184.8		2.80	167.7
231	3rd Function Hexa-PCBs				0.7736	5.010	0.00		0.000		NO	1246		2.32	1247

#	Name	Pred_RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	rvy	EMPC	Comp
18	88 PCB-120	38.80	38.88	1.077e3	8.911e2	1.580	1.21	YES	4.8785	0.00000
20	87 PCB-110	40.04	40.03	1.263e5	8.283e4	1.580	1.52	NO	626.58	626.58
21	86 PCB-82	40.88	40.88	9.347e3	5.904e3	1.580	1.58	NO	75.782	75.782
22	86 PCB-124	41.38	41.38	3.482e3	2.478e3	1.580	1.41	NO	17.170	17.170
23	90 PCB-107/108	41.53	41.55	9.358e3	6.784e3	1.580	1.38	NO	46.384	46.384
24	91 PCB-123	41.70	41.72	1.288e3	1.153e3	1.580	1.12	YES	6.8062	0.00000
25	92 PCB-108/118	41.91	41.91	9.558e4	6.451e4	1.580	1.48	NO	470.77	470.77



#	Name	Resp	RA	rvy	RVE	wtVol	Prod RT	RT	Prod.R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
225	225 Total Di-PCBs				1.0582	5.010	0.00		0.000		NO	38.15		13.2	38.15
226	226 2nd Function Tri-PCBs				0.9137	5.010	0.00		0.000		NO	141.9		2.49	141.9
227	227 3rd Function Tri-PCBs				1.0583	5.010	0.00		0.000		NO	624.2		8.17	624.2
228	228 Total Tetra-PCBs				0.9861	5.010	0.00		0.000		NO	2975		12.7	2975
229	229 3rd Function Penta-PCBs				1.1184	5.010	0.00		0.000		NO	3930		8.87	3930
230	230 4th Function Penta-PCBs				1.1112	5.010	0.00		0.000		NO	164.6		2.80	167.7
231	231 3rd Function Hexa-PCBs				0.7738	5.010	0.00		0.000		NO	1248		2.32	1247

#	Name	Prod RT	RT	Int Resp	W2 Resp	1* Ratio (Prod)	RA	rvy	EMPC	Conc.
19	86 PCB-120	39.90	38.88	1.077e3	8.911e2	1.560	1.21	YES	4.6785	0.00000
20	87 PCB-110	40.04	40.03	1.283e5	8.280e4	1.560	1.52	NO	626.56	626.56
21	88 PCB-82	40.88	40.88	9.347e3	5.804e3	1.560	1.58	NO	75.782	75.782
22	89 PCB-124	41.38	41.38	3.482e3	2.478e3	1.560	1.41	NO	17.170	17.170
23	90 PCB-107/108	41.53	41.55	8.358e3	6.784e3	1.560	1.38	NO	46.384	46.384
24	91 PCB-123	41.70	41.72	1.288e3	1.153e3	1.560	1.12	YES	6.8082	0.00000
25	92 PCB-106/118	41.91	41.91	9.550e4	6.451e4	1.560	1.48	NO	470.77	470.77

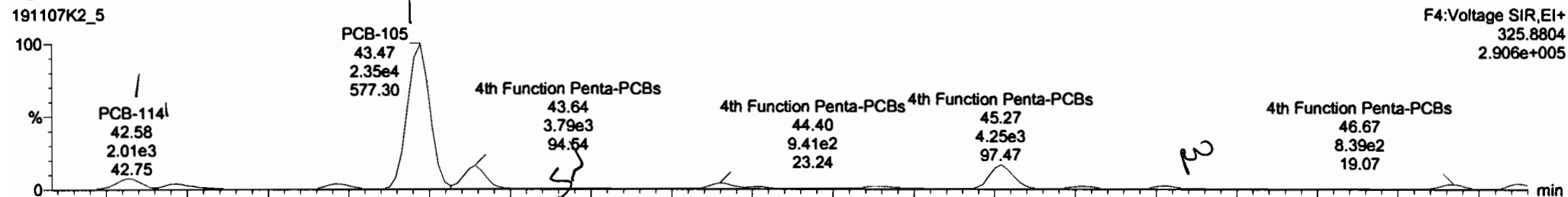


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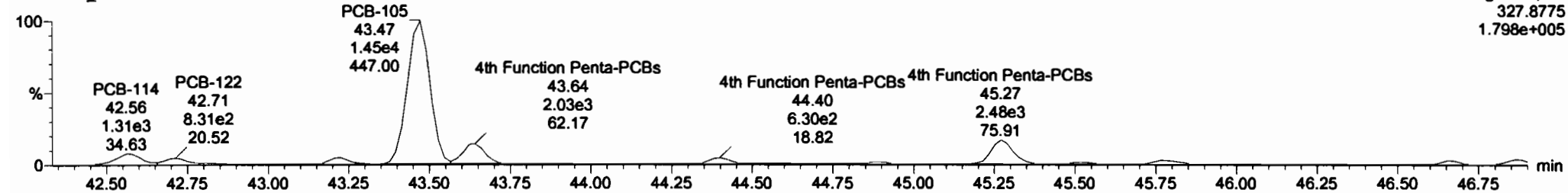
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Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

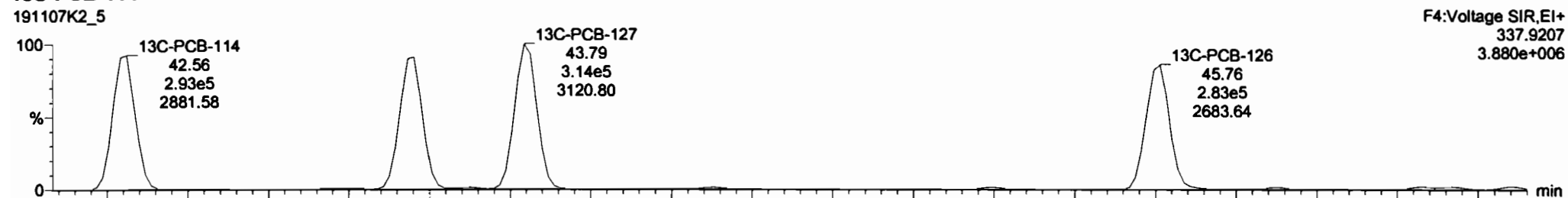
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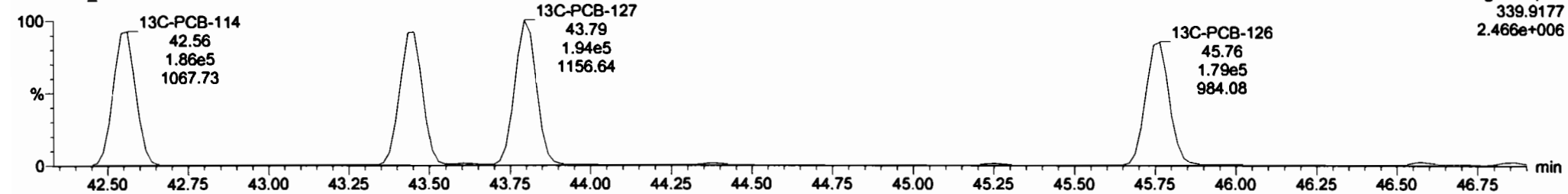
**PCB-114**



**13C-PCB-114**



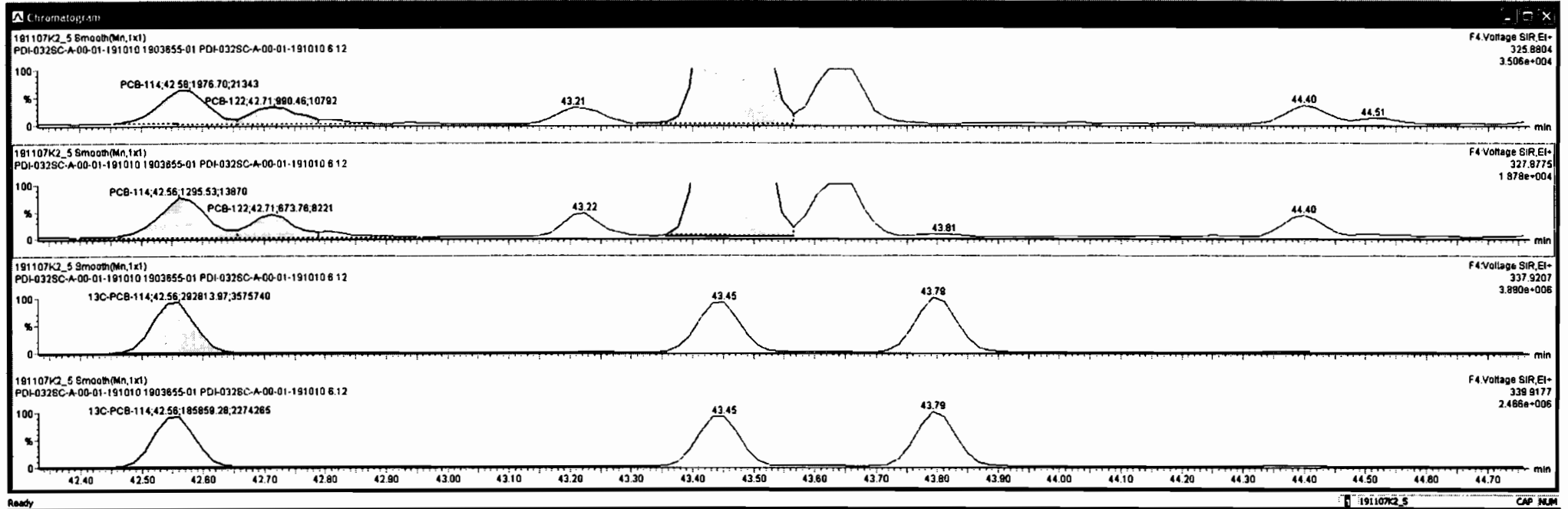
**13C-PCB-114**





#	Name	Resp	RA	n/y	RRT	wt/val	Pred.RT	RT	Pred.R...	RRT	RRT Fed	Conc.	%Rec	DL	EMPC
225	Total Di-PCBs				1.0592	5.010	0.00		0.000		NO	39.15		13.2	39.15
226	2nd Function Tri-PCBs				0.9137	5.010	0.00		0.000		NO	141.8		2.48	141.8
227	3rd Function Tri-PCBs				1.0583	5.010	0.00		0.000		NO	624.2		8.17	624.2
228	Total Tetra-PCBs				0.9961	5.010	0.00		0.000		NO	2975		12.7	2980
229	3rd Function Penta-PCBs				1.1154	5.010	0.00		0.000		NO	3630		6.97	3681
230	4th Function Penta-PCBs				1.1112	5.010	0.00		0.000		NO	180.9		2.96	186.9
231	3rd Function Hexa-PCBs				0.7739	5.010	0.00		0.000		NO	1246		2.32	1247

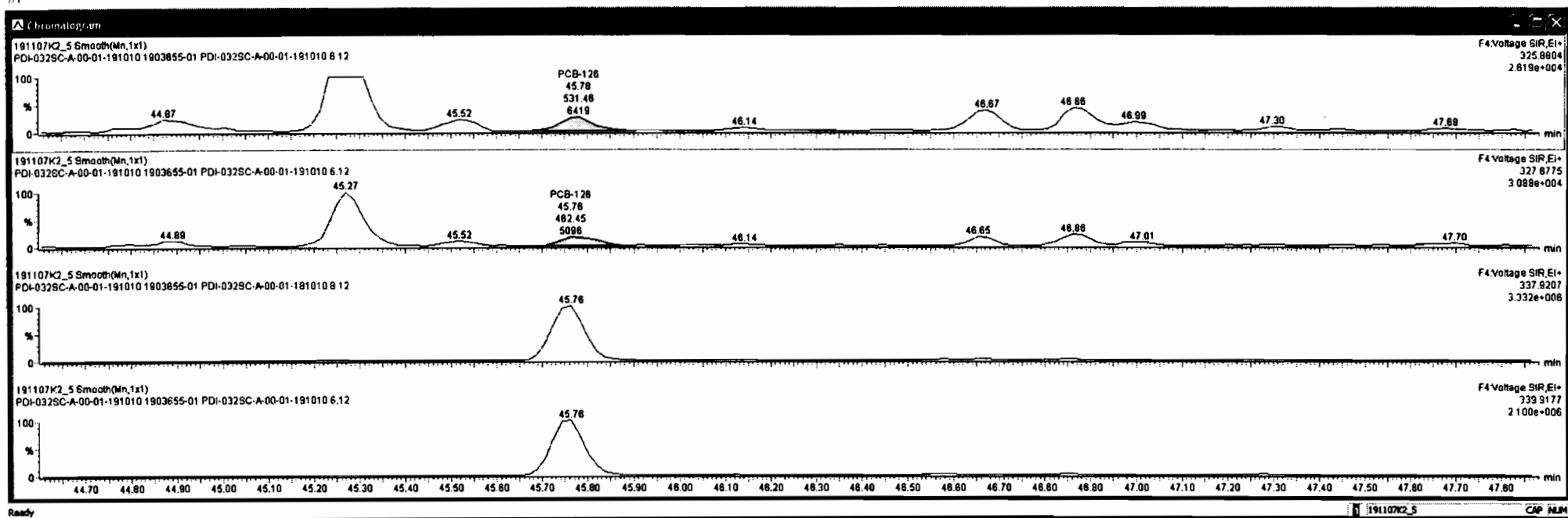
#	Name	Pred.RT	RT	mi Resp	st2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	93 PCB-114	42.58	42.58	1.877e3	1.296e3	1.580	1.53	NO	11.748	11.748
2	94 PCB-122	42.71	42.71	9.805e2	6.739e2	1.580	1.47	NO	7.1348	7.1348
3	95 PCB-105	43.47	43.47	2.351e4	1.460e4	1.550	1.81	NO	144.32	144.32
4	97 PCB-126	45.78	45.78	5.315e2	4.625e2	1.580	1.15	YES	3.1047	0.00000





#	Name	Resp	RA	rvf	RPF	wt/val	Pred.RT	RT	Pred.R.	PRT	PRT Fail	Conc.	%Rec	DL	EMPC
225	225 Total Di-PCBs				1.0582	5.010	0.00		0.000		NO	38.15		13.2	38.15
226	226 2nd Function Tri-PCBs				0.9137	5.010	0.00		0.000		NO	141.9		2.48	141.9
227	227 3rd Function Tri-PCBs				1.0563	5.010	0.00		0.000		NO	624.2		8.17	624.2
228	228 Total Tetra-PCBs				0.9861	5.010	0.00		0.000		NO	2875		12.7	2880
229	229 3rd Function Penta-PCBs				1.1154	5.010	0.00		0.000		NO	3630		8.87	3661
230	230 4th Function Penta-PCBs				1.1112	5.010	0.00		0.000		NO	169.2		2.80	188.3
231	231 3rd Function Hexa-PCBs				0.7738	5.010	0.00		0.000		NO	1246		2.32	1247

#	Name	Pred.RT	RT	rt Resp	rt2 Resp	1* Ratio (Pred)	RA	rvf	EMPC	Conc.
1	93 PCB-114	42.58	42.58	1.877e3	1.288e3	1.580	1.53	NO	11.748	11.748
2	94 PCB-122	42.71	42.71	8.805e2	6.738e2	1.580	1.47	NO	7.1348	7.1348
3	95 PCB-105	43.47	43.47	2.351e4	1.460e4	1.550	1.81	NO	144.32	144.32
4	97 PCB-126	45.78	45.78	5.315e2	4.625e2	1.580	1.15	YES	3.1047	0.00000



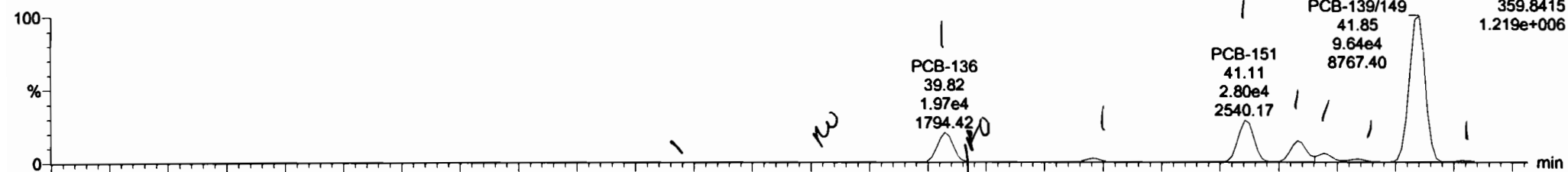
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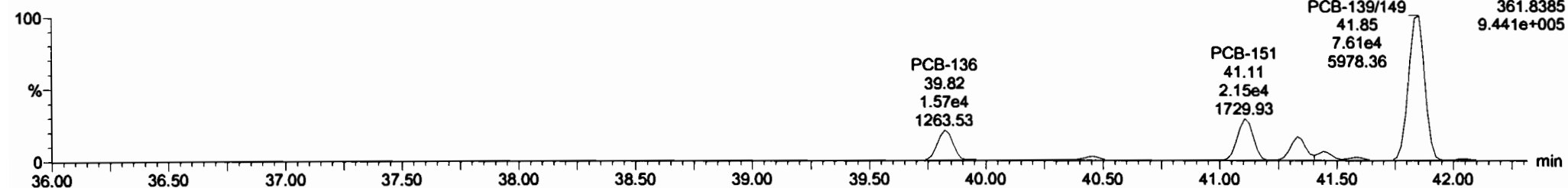
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PCB-155

191107K2\_5

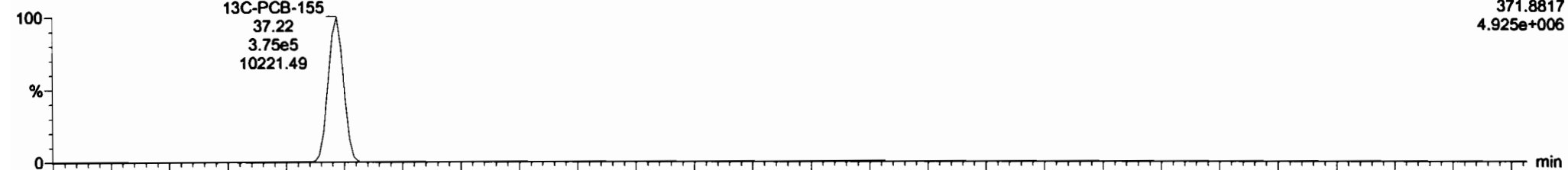


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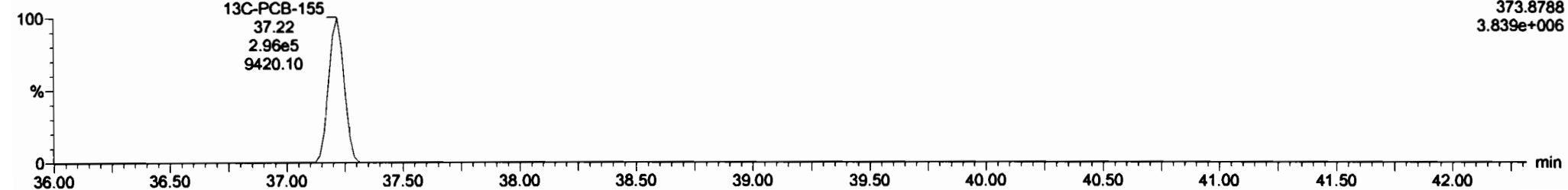


13C-PCB-155

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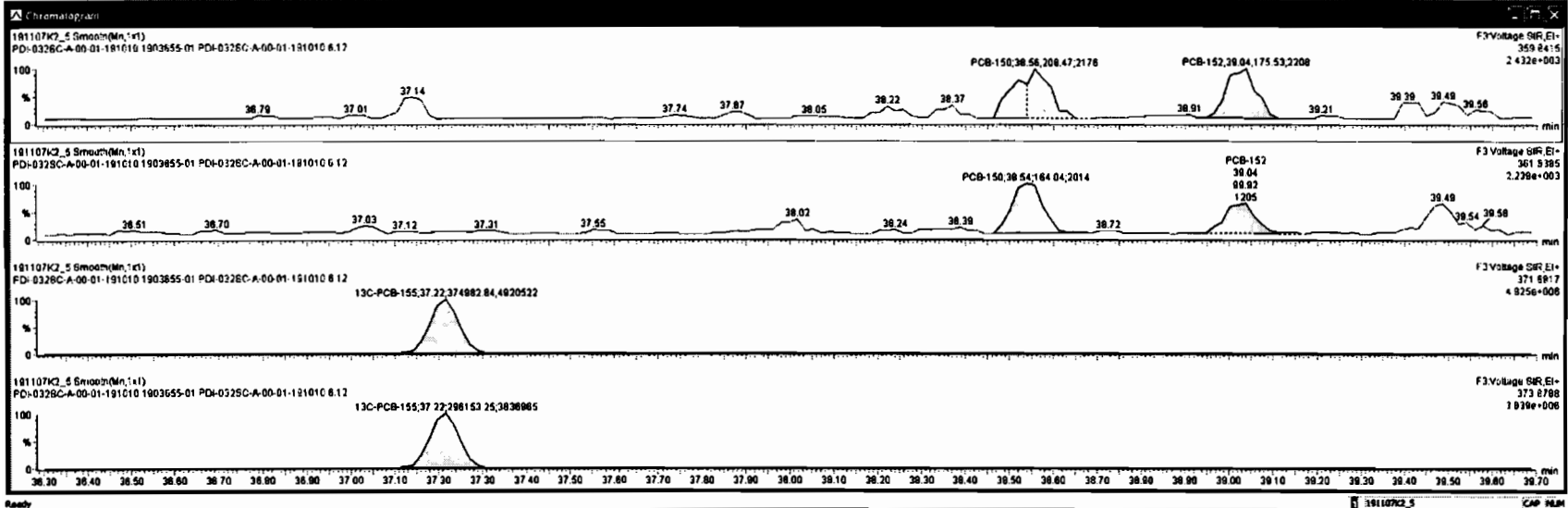


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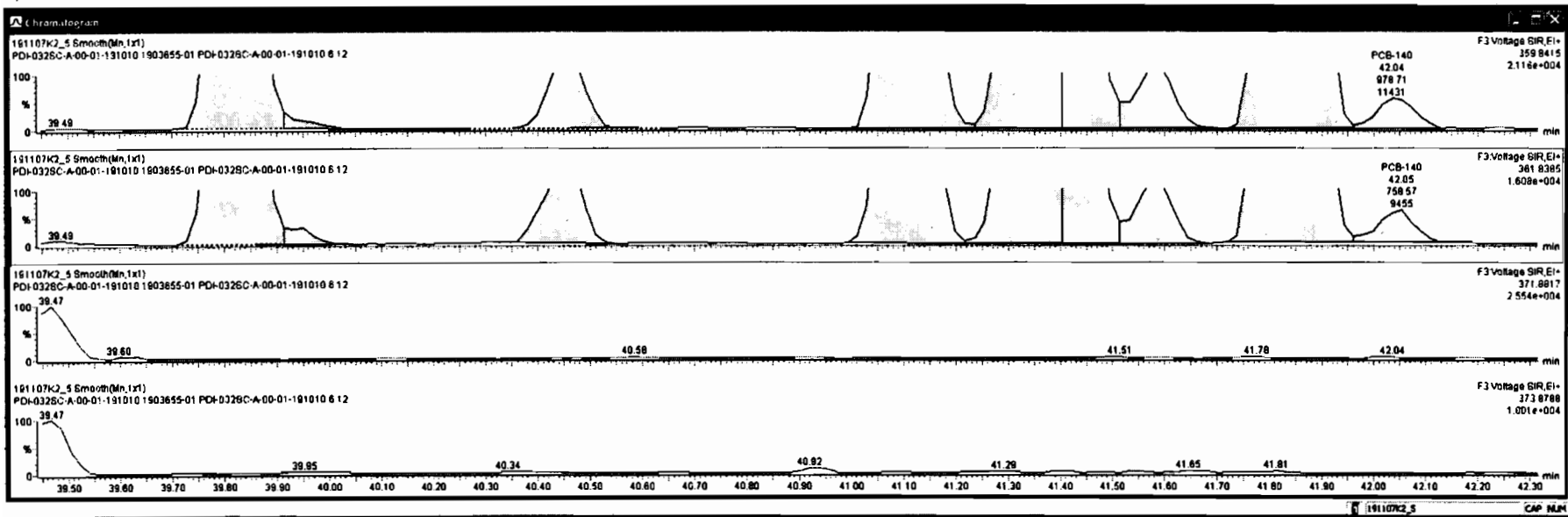
#	Name	Range	RA	rv	RP	wt-wt	Prod.RT	RT	Prod.RT	RP	RP	RP	RP	RP	RP	RP	RP	RP
225	Total Di-PCBs				1.0282	5.010	0.00		0.000		NO	38.15	13.2	38.15				
226	2nd Function Tri-PCBs				0.9137	5.010	0.00		0.000		NO	141.8	2.48	141.8				
227	2nd Function Tetra-PCBs				1.0583	5.010	0.00		0.000		NO	624.2	8.17	624.2				
228	Total Tetra-PCBs				0.9881	5.010	0.00		0.000		NO	2975	12.7	2980				
229	2nd Function Penta-PCBs				1.1154	5.010	0.00		0.000		NO	3530	8.87	3681				
230	4th Function Penta-PCBs				1.1112	5.010	0.00		0.000		NO	183.2	2.80	186.3				
231	2nd Function Hexa-PCBs				0.7728	6.819	0.00		0.000		NO	1248	2.33	1288				

#	Name	Prod.RT	RT	wt Range	wt Range	1st Ratio (Prod)	RA	rv	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
1	80 PCB-120	38.58	38.58	2.085e2	1.840e2	1.240	1.27	NO	1.2578	1.2578								
2	100 PCB-123	38.07	38.04	1.755e2	9.882e1	1.240	1.77	YES	0.89903	0.00000								
3	103 PCB-138	38.86	38.82	1.847e4	1.549e4	1.240	1.28	NO	123.30	123.30								
4	103 PCB-148	40.00	38.91	2.784e2	2.784e2	1.240	1.00	YES	2.1648	0.00000								
5	104 PCB-154	40.80	40.45	2.304e3	1.984e3	1.240	1.18	NO	17.817	17.817								
6	105 PCB-151	41.16	41.10	2.785e4	2.148e4	1.240	1.30	NO	232.81	232.81								
7	108 PCB-135	41.34	41.33	1.434e4	1.198e4	1.240	1.20	NO	108.32	108.32								



#	Name	Resp	RA	Qty	RT	Wt/ct	Prod RT	RT	Prod R <sub>1</sub>	RT	RT Fail	Cnts	%Acc	DL	DLPC
226	Total DLPCBs				1.0522	5.010	0.00	0.000		0.000	NO	3915		13.2	3815
228	2nd Function Tri-PCBs				0.9137	5.010	0.00	0.000		0.000	NO	1418		2.48	1418
227	3rd Function Tri-PCBs				1.0583	5.010	0.00	0.000		0.000	NO	6242		8.17	6242
229	Total Tetra-PCBs				0.9881	5.010	0.00	0.000		0.000	NO	2975		12.7	2990
228	2nd Function Penta-PCBs				1.1154	5.010	0.00	0.000		0.000	NO	3630		8.87	3681
230	4th Function Penta-PCBs				1.1112	5.010	0.00	0.000		0.000	NO	1632		2.80	1663
231	3rd Function Hexa-PCBs				0.7728	5.010	0.00	0.000		0.000	NO	1286		2.30	1286

#	Name	Prod RT	RT	Inf Resp	Inf Resp	* Rate (Prod)	RA	Qty	DLPC	Cnts
5	104 PCB-154	40.50	40.45	2.304e3	1.384e3	1.240	1.18	NO	17.817	17.817
6	105 PCB-151	41.16	41.10	2.785e4	2.149e4	1.240	1.30	NO	232.81	232.81
7	106 PCB-135	41.34	41.33	1.434e4	1.198e4	1.240	1.20	NO	109.32	109.32
8	107 PCB-144	41.44	41.44	5.203e3	4.084e3	1.240	1.28	NO	41.345	41.345
9	108 PCB-147	41.58	41.58	2.079e3	1.623e3	1.240	1.38	NO	16.250	16.250
10	109 PCB-136A 48	41.83	41.85	9.844e4	7.827e4	1.240	1.27	NO	894.87	894.87
11	110 PCB-146	42.11	42.04	9.787e2	7.586e2	1.240	1.28	NO	8.2357	8.2357



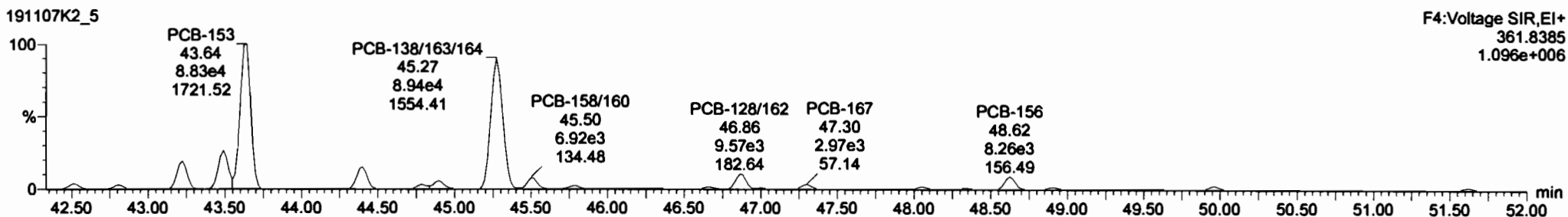
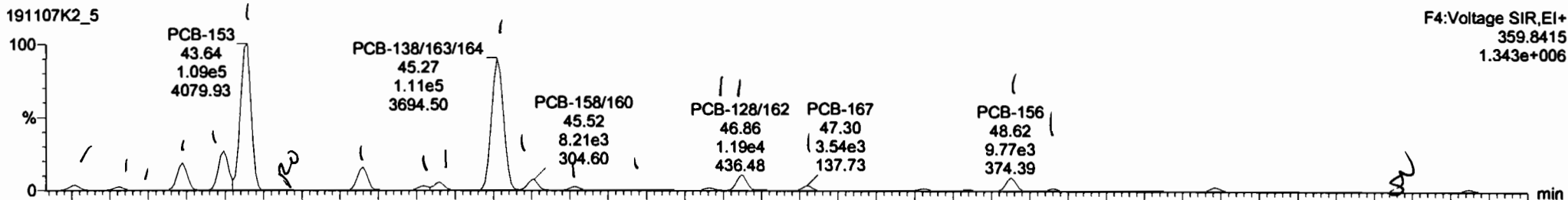
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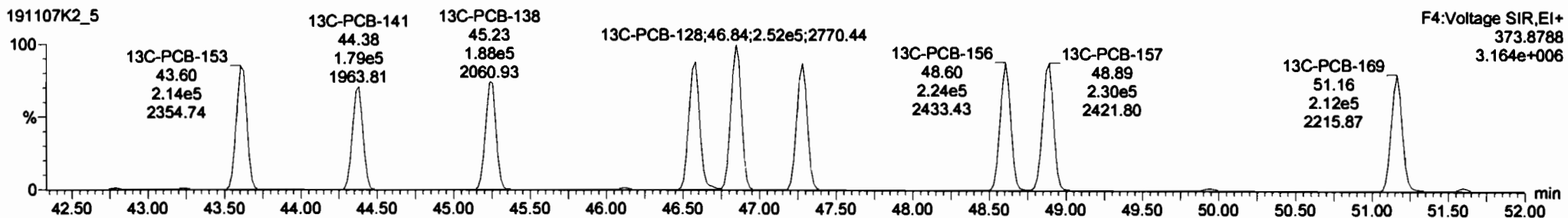
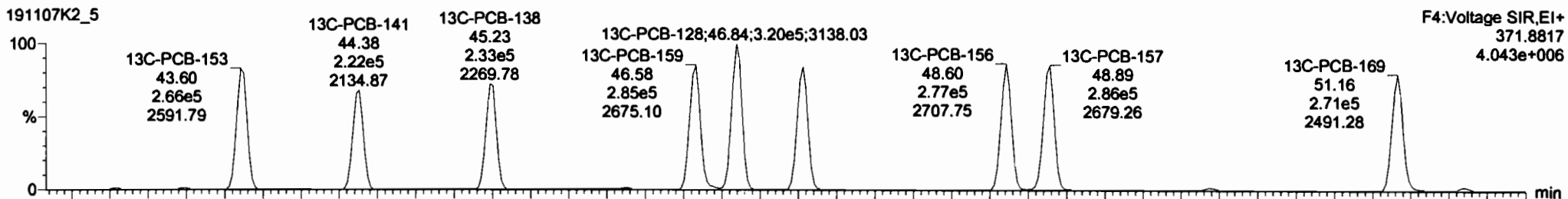
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PCB-134/143

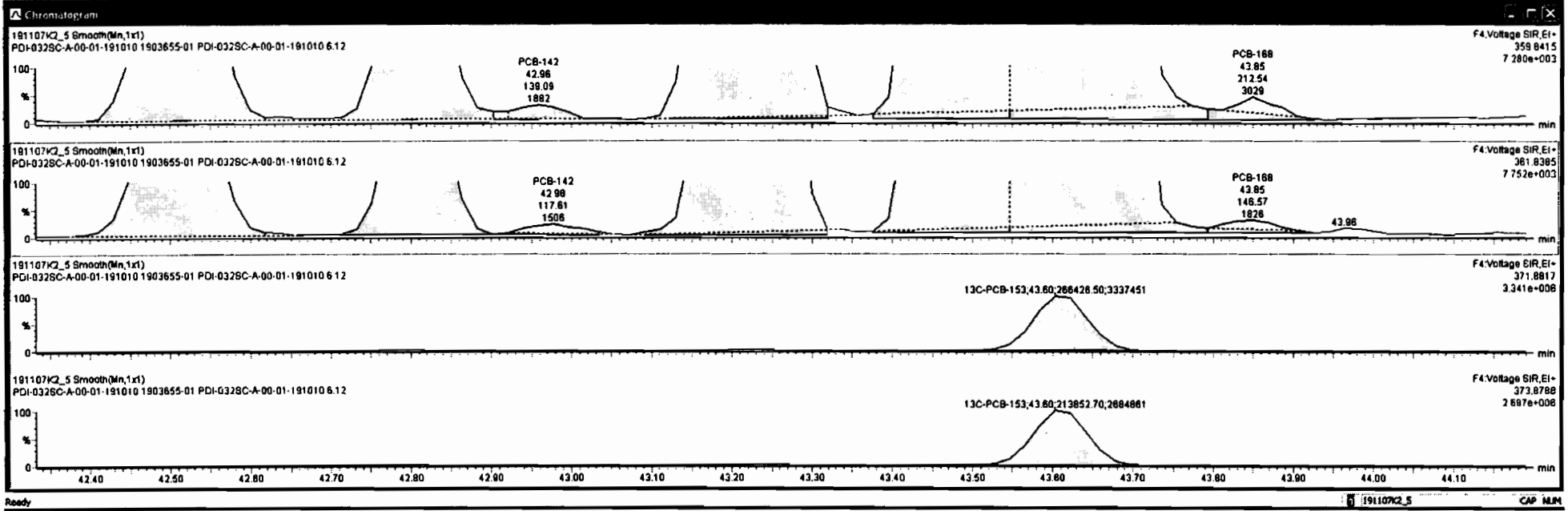


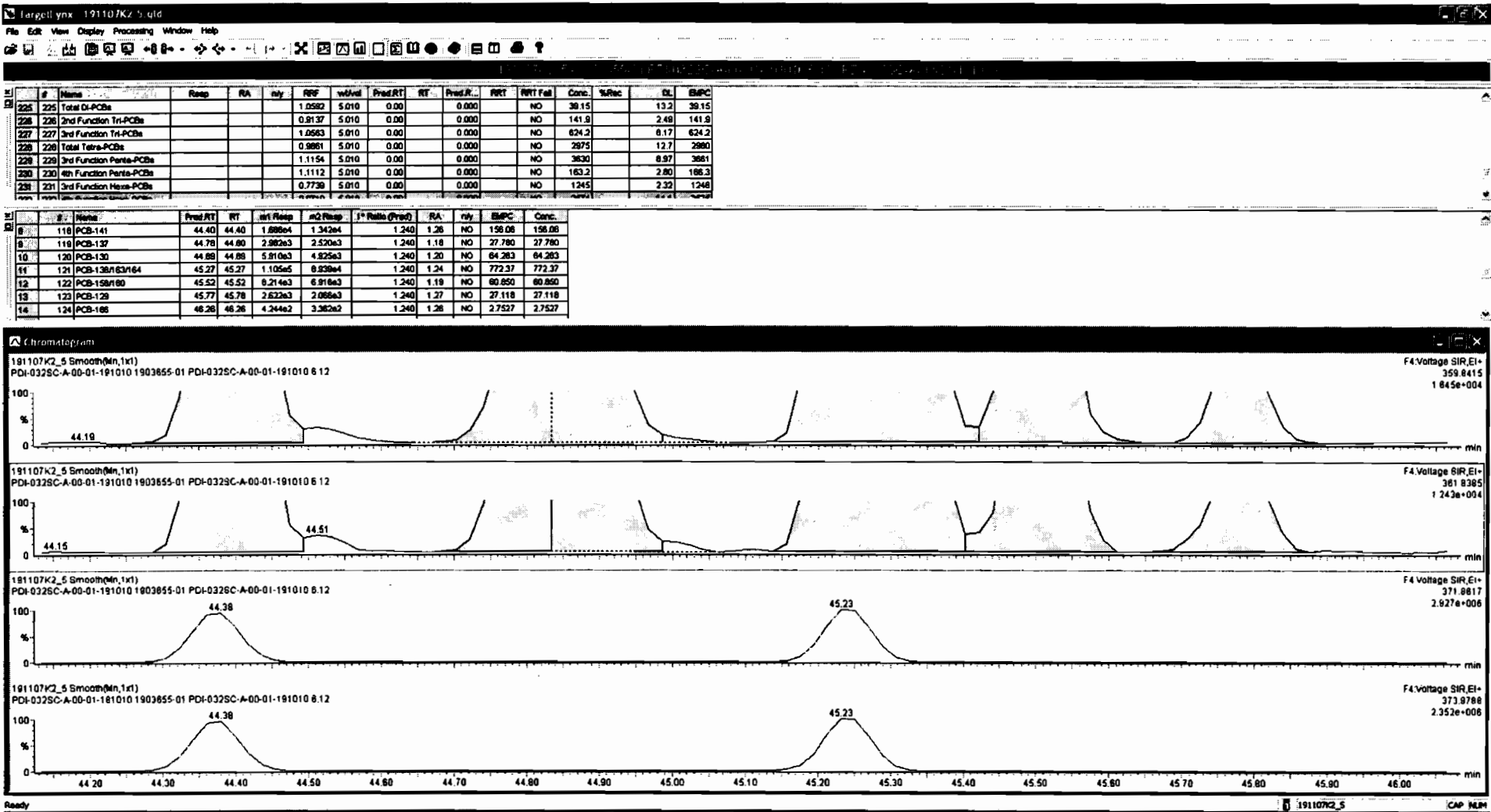
13C-PCB-153



#	Name	Resp	RA	nly	PPF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
225	225 Total Di-PCBs				1.0592	5.010	0.00		0.000		NO	39.15		13.2	39.15
226	226 2nd Function Tri-PCBs				0.8137	5.010	0.00		0.000		NO	141.9		2.48	141.9
227	227 3rd Function Tri-PCBs				1.0563	5.010	0.00		0.000		NO	624.2		8.17	624.2
228	228 Total Tetra-PCBs				0.9661	5.010	0.00		0.000		NO	2975		12.7	2980
229	229 2nd Function Penta-PCBs				1.1154	5.010	0.00		0.000		NO	3630		8.97	3661
230	230 4th Function Penta-PCBs				1.1112	5.010	0.00		0.000		NO	163.2		2.80	166.3
231	231 3rd Function Hexa-PCBs				0.7739	5.010	0.00		0.000		NO	1245		2.32	1248

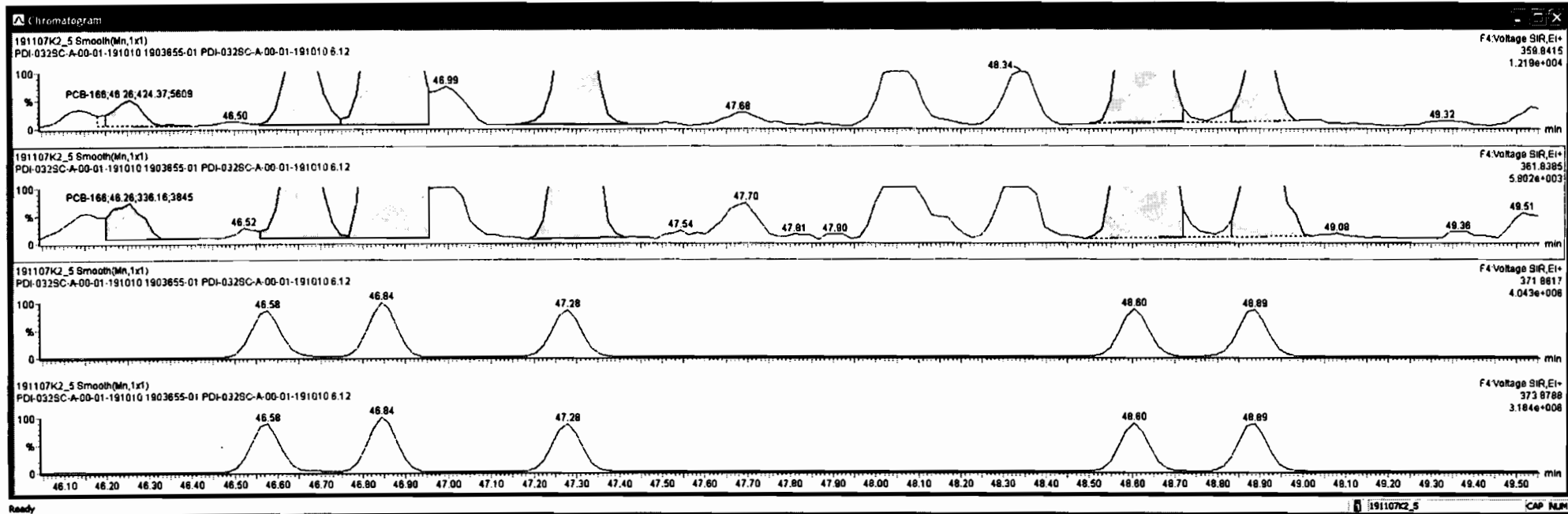
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	111 PCB-134/143	42.51	42.52	3.927e3	3.409e3	1.240	1.15	NO	41.565	41.565
2	112 PCB-131/133	42.80	42.81	2.470e3	2.327e3	1.240	1.08	NO	25.231	25.231
3	113 PCB-142	42.85	42.86	1.391e2	1.178e2	1.240	1.18	NO	1.5086	1.5086
4	114 PCB-148/165	43.20	43.22	1.980e4	1.841e4	1.240	1.19	NO	155.96	155.96
5	115 PCB-132/161	43.44	43.49	2.795e4	2.205e4	1.240	1.27	NO	213.26	213.26
6	116 PCB-153	43.82	43.84	1.092e5	8.858e4	1.240	1.23	NO	812.10	812.10
7	117 PCB-188	43.85	43.85	2.125e2	1.468e2	1.240	1.45	YES	1.3364	0.00000





#	Name	Resp	RA	ny	RfF	wWtd	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
225	Total Di-PCBs				1.0582	5.010	0.00		0.000		NO	39.15		13.2	39.15
226	2nd Function Tri-PCBs				0.9137	5.010	0.00		0.000		NO	141.9		2.49	141.9
227	3rd Function Tri-PCBs				1.0563	5.010	0.00		0.000		NO	624.2		8.17	624.2
228	Total Tetra-PCBs				0.9861	5.010	0.00		0.000		NO	2875		12.7	2900
229	3rd Function Penta-PCBs				1.1154	5.010	0.00		0.000		NO	3630		9.87	3661
230	4th Function Penta-PCBs				1.1112	5.010	0.00		0.000		NO	163.2		2.80	166.3
231	3rd Function Hexa-PCBs				0.7739	5.010	0.00		0.000		NO	1245		2.32	1248

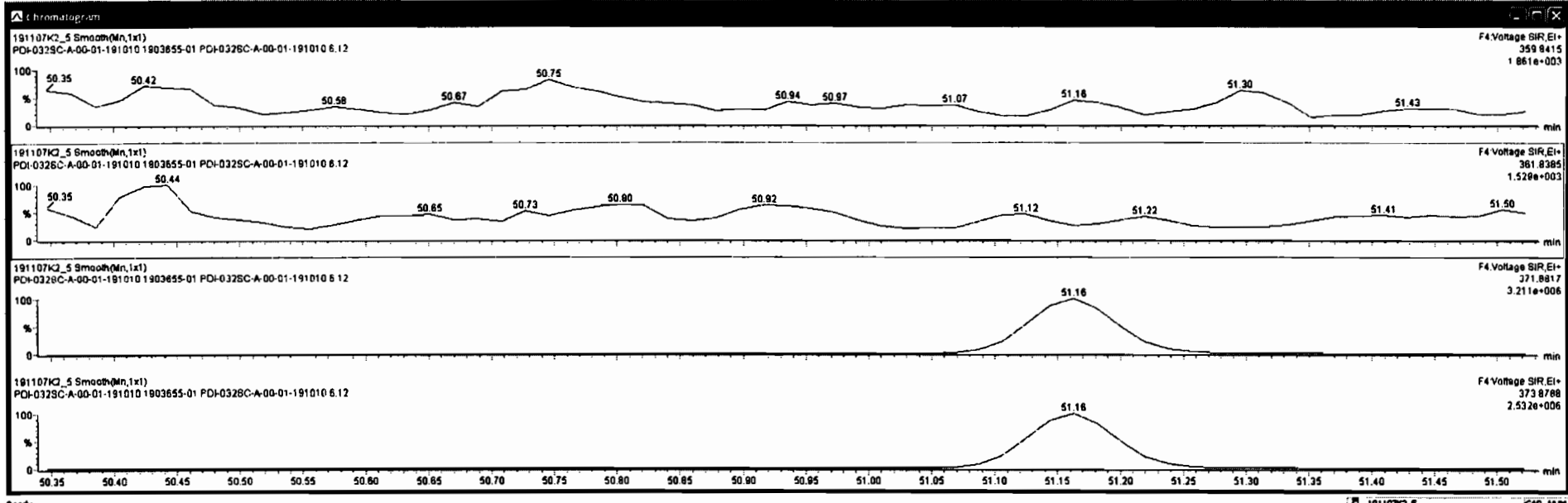
#	Name	Pred.RT	RT	ret Resp	m2 Resp	1+ Ratio (Pred)	RA	ny	EMPC	Conc.
9	118 PCB-141	44.40	44.40	1.688e4	1.342e4	1.240	1.26	NO	158.08	158.08
10	118 PCB-137	44.78	44.80	2.982e3	2.520e3	1.240	1.18	NO	27.780	27.780
11	120 PCB-130	44.86	44.88	5.910e3	4.925e3	1.240	1.20	NO	84.283	84.283
12	121 PCB-138/163/164	45.27	45.27	1.105e5	8.939e4	1.240	1.24	NO	772.37	772.37
13	122 PCB-158/160	45.52	45.52	8.214e3	6.916e3	1.240	1.19	NO	60.850	60.850
14	123 PCB-129	45.77	45.78	2.822e3	2.086e3	1.240	1.27	NO	27.118	27.118
15	124 PCB-166	46.26	46.26	4.244e2	3.362e2	1.240	1.26	NO	2.7527	2.7527





#	Name	Resp	RA	nly	NRF	wtd	Pred.RT	RT	Pred.R.	NRT	RRT	Fail	Conc.	%Rec	DL	BWPC
226	225 Total Di-PCBs				1.0582	5.010	0.00		0.000			NO	38.15		13.2	38.15
226	226 2nd Function Tri-PCBs				0.9137	5.010	0.00		0.000			NO	141.8		2.49	141.8
227	227 3rd Function Tri-PCBs				1.6563	5.010	0.00		0.000			NO	824.2		8.17	824.2
228	228 Total Tetra-PCBs				0.9861	5.010	0.00		0.000			NO	2875		12.7	2880
228	228 3rd Function Penta-PCBs				1.1154	5.010	0.00		0.000			NO	3630		6.97	3681
230	230 4th Function Penta-PCBs				1.1112	5.010	0.00		0.000			NO	163.2		2.80	166.3
231	231 3rd Function Hexa-PCBs				0.7738	5.010	0.00		0.000			NO	1245		2.32	1248

#	Name	Pred.RT	RT	Int Resp	Std Resp	1 <sup>st</sup> Ratio (Pred)	RA	nly	BWPC	Conc.
1	111 PCB-134/143	42.51	42.52	3.944e3	3.421e3	1.240	1.15	NO	41.734	41.734
2	112 PCB-131/133	42.80	42.81	2.504e3	2.327e3	1.240	1.08	NO	25.411	25.411
3	113 PCB-142	42.95	43.88	1.185e3	8.584e1	1.240	1.24	NO	1.2588	1.2588
4	114 PCB-146/165	43.20	43.22	1.958e4	1.833e4	1.240	1.20	NO	156.55	156.55
5	115 PCB-132/161	43.44	43.48	2.780e4	2.186e4	1.240	1.27	NO	212.24	212.24
6	116 PCB-153	43.62	43.84	1.088e5	8.630e4	1.240	1.23	NO	808.45	808.45
7	117 PCB-168	43.85	43.85	1.023e2	8.588e1	1.240	1.19	NO	0.76742	0.76742



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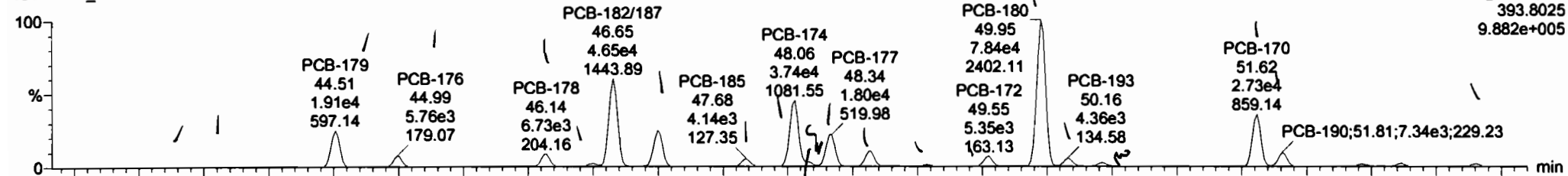
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Printed: Friday, November 08, 2019 09:38:56 Pacific Standard Time

Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

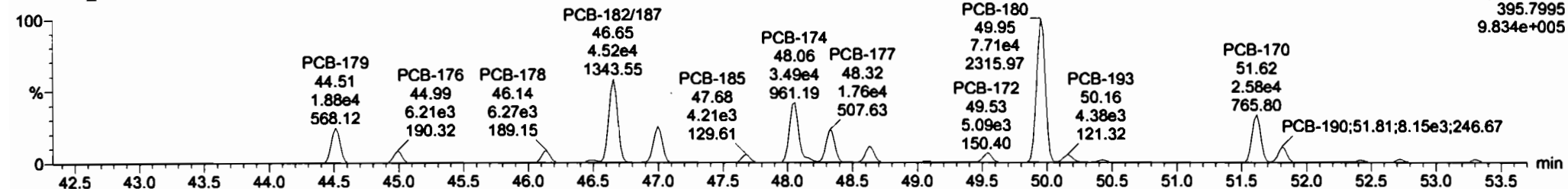
PCB-188

191107K2\_5



F4:Voltage SIR,EI+  
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9.882e+005

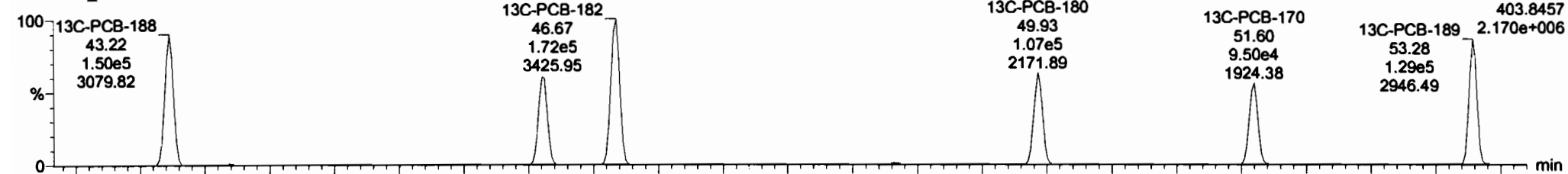
191107K2\_5



F4:Voltage SIR,EI+  
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9.834e+005

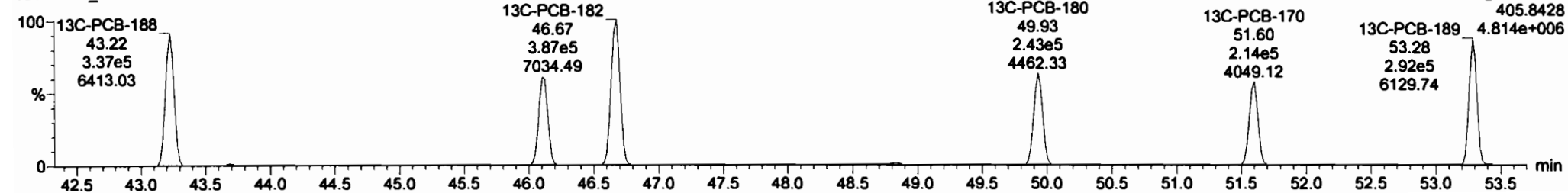
13C-PCB-188

191107K2\_5



F4:Voltage SIR,EI+  
403.8457  
2.170e+006

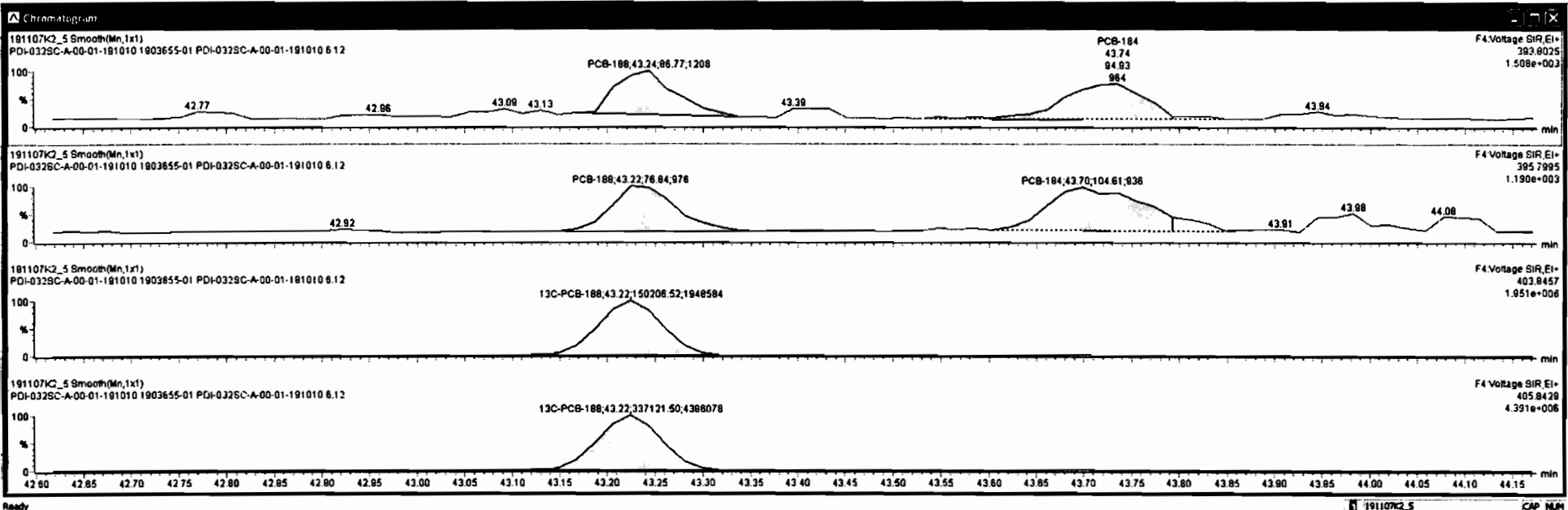
191107K2\_5



F4:Voltage SIR,EI+  
405.8428  
4.814e+006

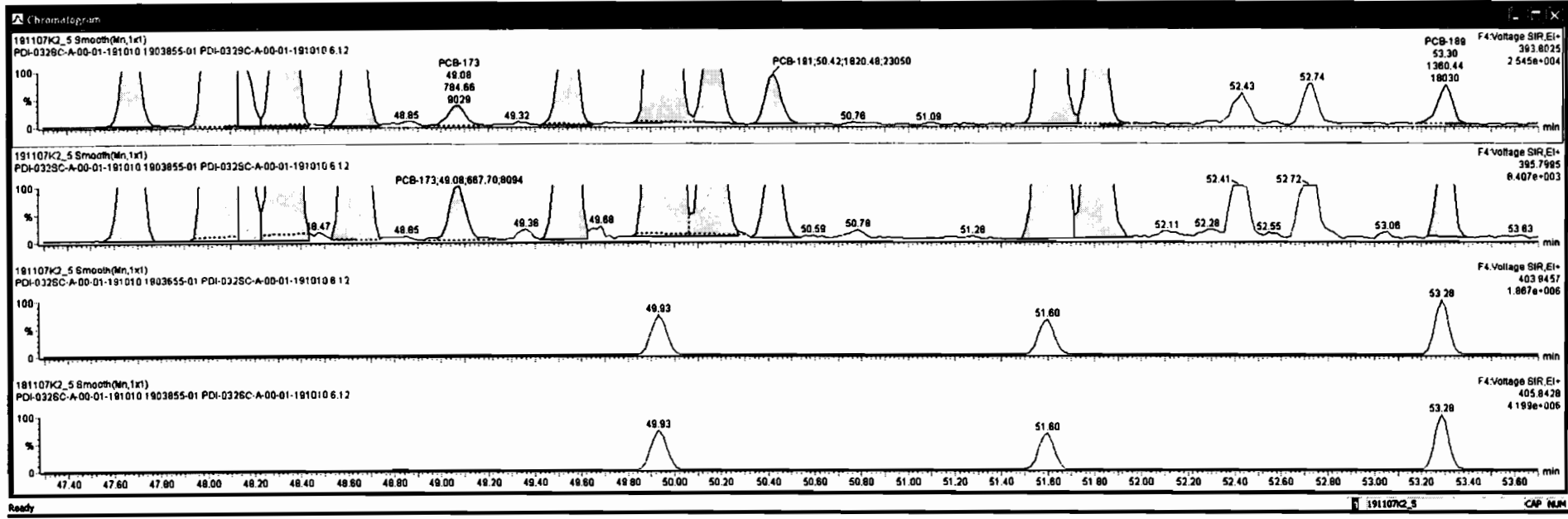
#	Name	Resp	RA	n/y	RRF	wtAct	Pred RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	SNPC
223	223 Total Hxns-PCBs				1.2638	5.910	0.00		0.000		NO	2489		12.1	2699
224	224 4th Function Octa-PCBs				0.8983	5.010	0.00		0.000		NO	483.8		3.10	484.3
225	225 5th Function Octa-PCBs				1.1987	5.010	0.00		0.000		NO	212.1		1.42	212.1
226	226 Total Hxns-PCBs				0.8448	5.010	0.00		0.000		NO	110.0		1.07	110.0
227	227 Deca-CB				0.9428	5.010	0.00		0.000		NO	72.08		0.138	72.08
228	228 Total PCBs														
229	229 Total Mono-Isotopes														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	SNPC	Conc.
1	131 PCB-188	43.26	43.24	8.677e1	7.684e1	1.050	1.13	NO	0.56159	0.56159
2	132 PCB-184	43.71	43.74	9.493e1	1.046e2	1.050	0.91	NO	0.70048	0.70048
3	133 PCB-178	44.52	44.51	1.806e4	1.884e4	1.050	1.01	NO	131.98	131.98
4	134 PCB-176	44.99	44.99	5.758e3	8.210e3	1.050	0.83	NO	42.271	42.271
5	136 PCB-178	46.12	46.14	6.727e3	8.388e3	1.050	1.07	NO	84.084	84.084
6	137 PCB-175	46.48	46.50	1.509e3	1.311e3	1.050	1.15	NO	13.807	13.807
7	138 PCB-182/187	46.68	46.65	4.646e4	4.523e4	1.050	1.03	NO	381.16	381.16



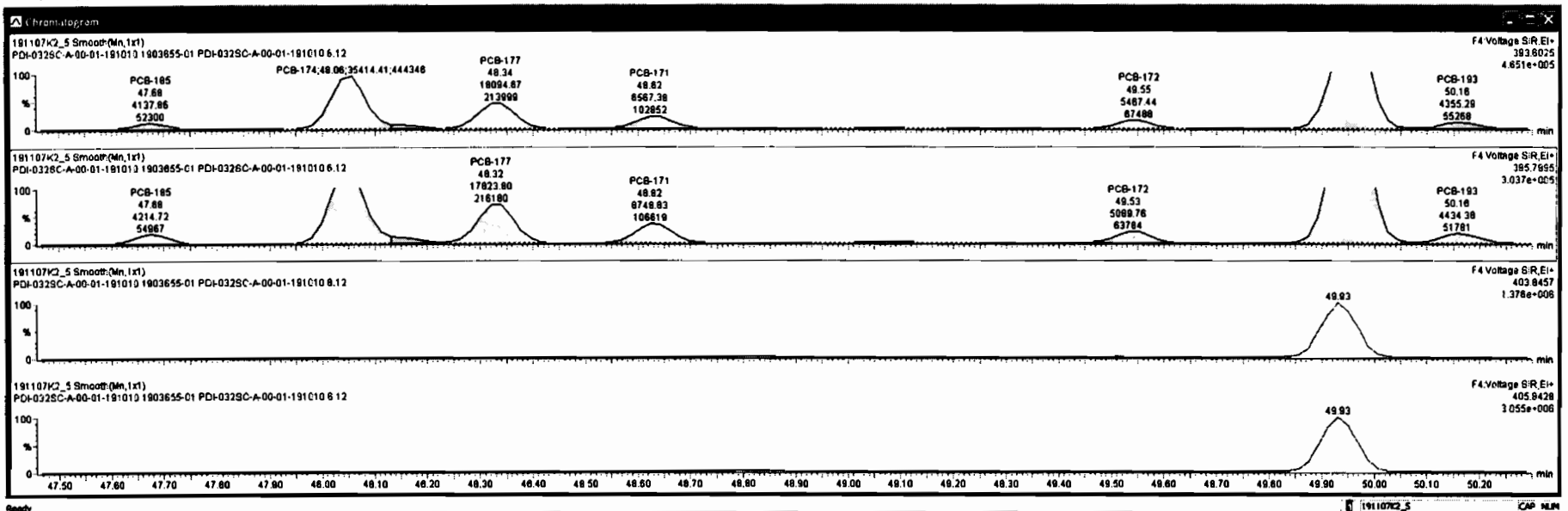
#	Name	Resp	RA	n/y	RF	wtAnd	Pred.RT	RT	Pred.R...	RRT	RRT Fat	Conc.	%Rec	DL	SLPC
233	233 Total Repts-PCBs				1.2836	5.010	0.00		0.000		NO	233.0		12.1	233.0
234	234 4th Function Octa-PCBs				0.8863	5.010	0.00		0.000		NO	483.8		3.10	484.3
235	235 5th Function Octa-PCBs				1.1887	5.010	0.00		0.000		NO	212.1		1.42	212.1
236	236 Total Nona-PCBs				0.9446	5.010	0.00		0.000		NO	110.0		1.07	110.0
237	237 Deca-CB				0.9426	5.010	0.00		0.000		NO	72.06		0.136	72.06
238	238 Total PCBs														
239	239 Total Mono-isotopes														

#	Name	Pred.RT	RT	wt Ratio	wt Resp	(% Ratio (Pred))	RA	n/y	SLPC	Conc.
1	131 PCB-188	43.26	43.24	6.677e1	7.894e1	1.050	1.13	NO	0.58158	0.58158
2	132 PCB-184	43.71	43.74	9.463e1	1.046e2	1.050	0.91	NO	0.70048	0.70048
3	133 PCB-178	44.52	44.51	1.908e4	1.884e4	1.050	1.01	NO	131.98	131.98
4	134 PCB-176	44.98	44.98	5.758e3	6.210e3	1.050	0.93	NO	42.271	42.271
5	136 PCB-178	46.12	46.14	6.727e3	6.288e3	1.050	1.07	NO	64.084	64.084
6	137 PCB-175	46.48	46.50	1.508e3	1.311e3	1.050	1.15	NO	13.807	13.807
7	138 PCB-182/187	46.88	46.85	4.848e4	4.523e4	1.050	1.03	NO	391.16	391.16



#	Name	Resp	RA	rvy	RRF	wtval	Prod.RT	RT	Prod.R.	RT	RRF Tot	Conc.	%Rec	DL	BMP
233	233 Total High-PCBs				1.2830	6.810	0.00	0.000		NO	2094	121	2913		
234	234 Min Function Ochs-PCBs				0.8823	5.010	0.00	0.000		NO	4638	310	484.3		
235	235 Min Function Ochs-PCBs				1.1867	5.010	0.00	0.000		NO	2121	1.42	2121		
236	236 Total Non-PCBs				0.9446	5.010	0.00	0.000		NO	110.0	1.07	110.0		
237	237 Ochs-CB				0.9426	5.010	0.00	0.000		NO	72.06	0.138	72.06		
238	238 Total PCBs														
239	239 Total Mono-Isotopes														

#	Name	Prod.RT	RT	int Resp	int2 Resp	1+ Ratio (Prod)	RA	rvy	BMP	Conc.
1	131 PCB-188	43.26	43.24	8.877e1	7.884e1	1.050	1.13	NO	0.58158	0.58158
2	132 PCB-184	43.71	43.74	9.493e1	1.048e2	1.050	0.81	NO	0.70048	0.70048
3	133 PCB-179	44.52	44.51	1.908e4	1.884e4	1.050	1.01	NO	131.98	131.98
4	134 PCB-176	44.98	44.98	5.758e3	6.210e3	1.050	0.93	NO	42.271	42.271
5	136 PCB-178	46.12	46.14	8.727e3	6.288e3	1.050	1.07	NO	64.084	64.084
6	137 PCB-175	46.48	46.50	1.508e3	1.311e3	1.050	1.15	NO	13.807	13.807
7	138 PCB-182A87	46.88	46.85	4.846e4	4.523e4	1.050	1.03	NO	381.16	381.16



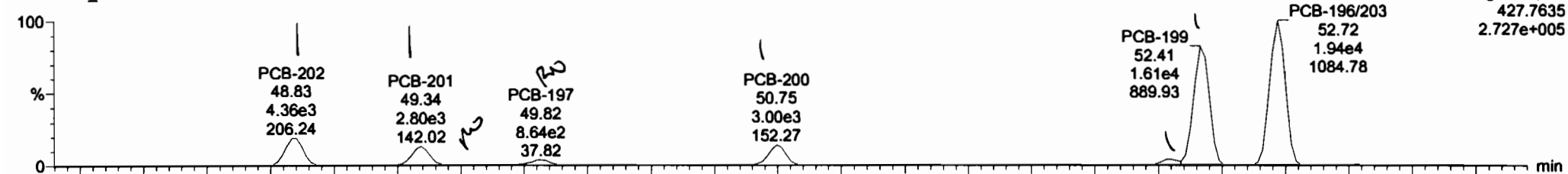
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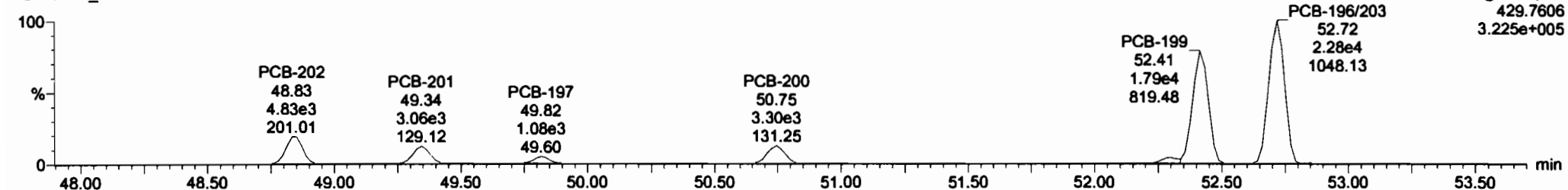
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**PCB-202**

191107K2\_5

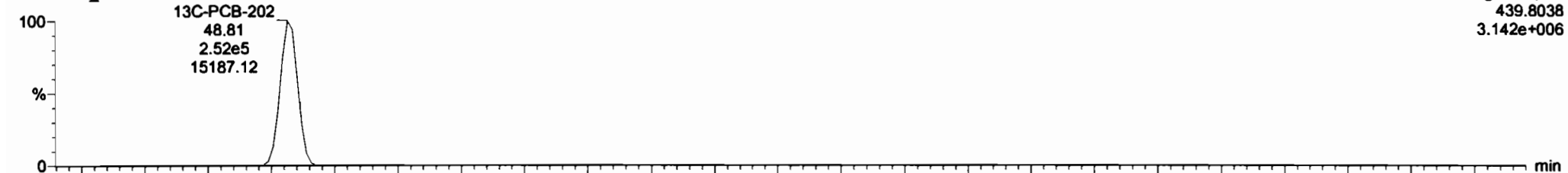


191107K2\_5

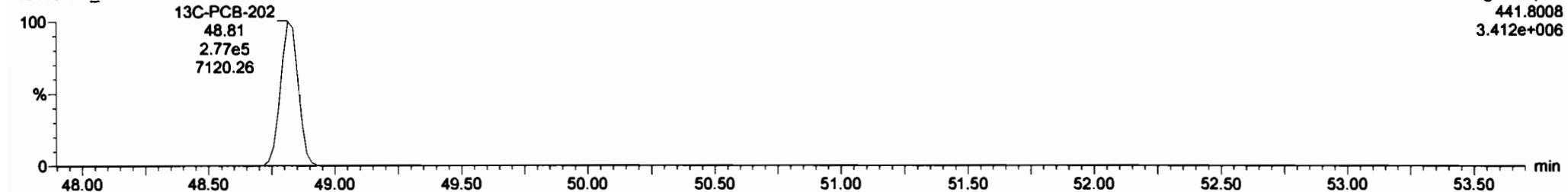


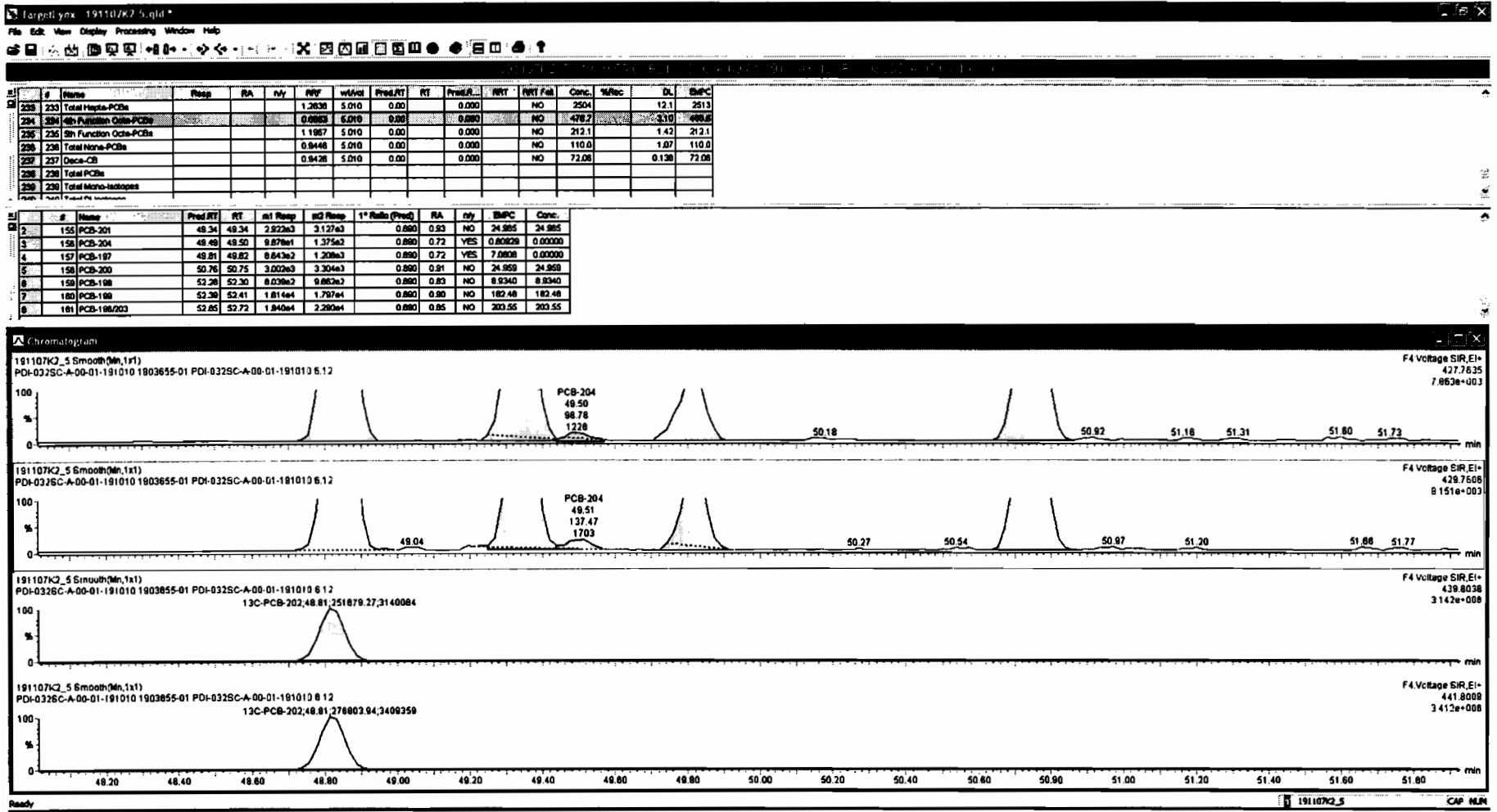
**13C-PCB-202**

191107K2\_5



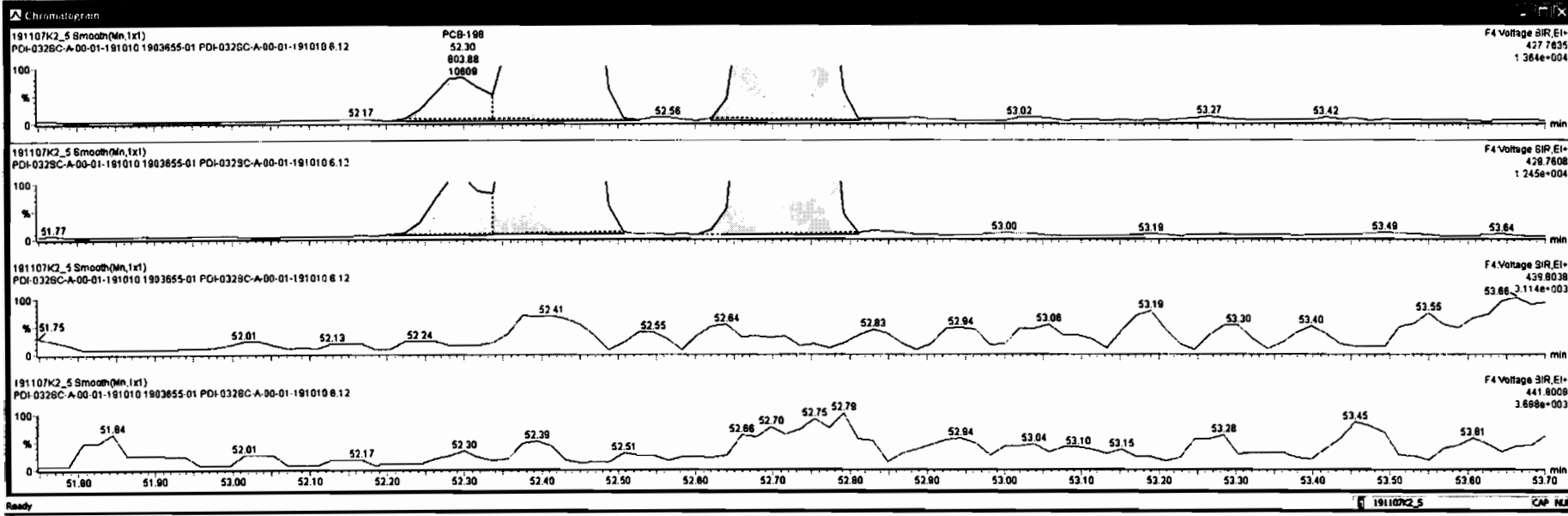
191107K2\_5





#	Name	Resp	RA	rv	RP	retval	Prod.RT	RT	Prod.R...	RET	RRT Fail	Conc.	%Rec	DL	EMPC
223	Total Hepta-PCBs				1.2638	5.010	0.00		0.000		NO	2504		12.1	2513
224	Min Function Octa-PCBs				0.8883	5.010	0.00		0.000		NO	478.7		3.10	485.8
225	Min Function Octa-PCBs				1.1987	5.010	0.00		0.000		NO	212.1		1.42	212.1
226	Total Nona-PCBs				0.9446	5.010	0.00		0.000		NO	110.0		1.07	110.0
227	Deca-CB				0.9426	5.010	0.00		0.000		NO	72.08		0.138	72.08
228	Total PCBs														
229	Total Mono-actinopes														

#	Name	Prod.RT	RT	int Resp	int Resp	1 <sup>st</sup> Ratio (Prod)	RA	rv	EMPC	Conc.
2	155 PCB-201	48.34	48.34	2.522e3	3.127e3	0.880	0.93	NO	24.985	24.985
3	156 PCB-204	48.40	48.50	8.878e1	1.375e2	0.880	0.72	YES	0.80826	0.00000
4	157 PCB-187	48.81	48.82	8.843e2	1.208e3	0.880	0.72	YES	7.0808	0.00000
6	158 PCB-200	50.78	50.75	3.002e3	3.304e3	0.880	0.91	NO	24.958	24.958
8	159 PCB-198	52.28	52.30	8.039e2	8.882e2	0.880	0.83	NO	8.9340	8.9340
7	160 PCB-198	52.38	52.41	1.814e4	1.787e4	0.880	0.90	NO	182.48	182.48
8	181 PCB-198/203	52.85	52.72	1.940e4	2.280e4	0.880	0.85	NO	203.55	203.55





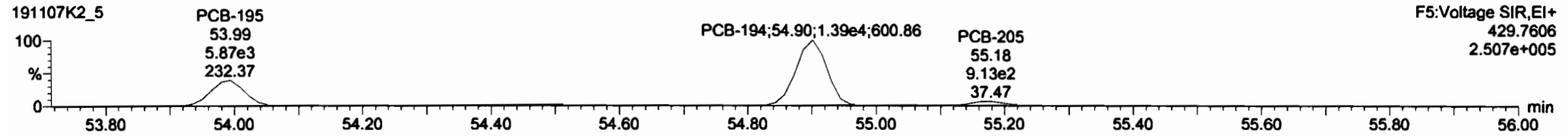
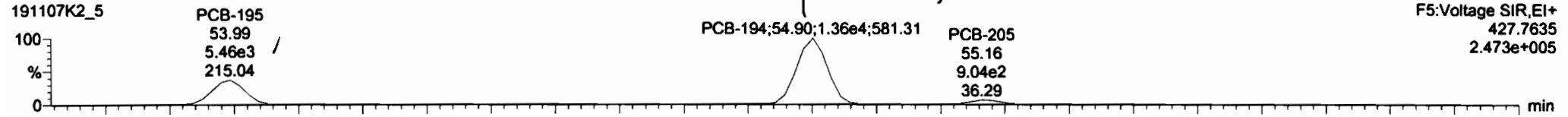
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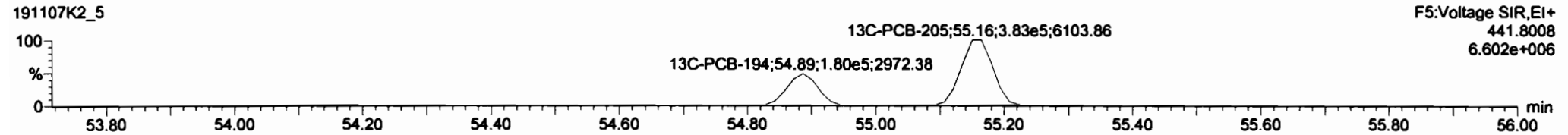
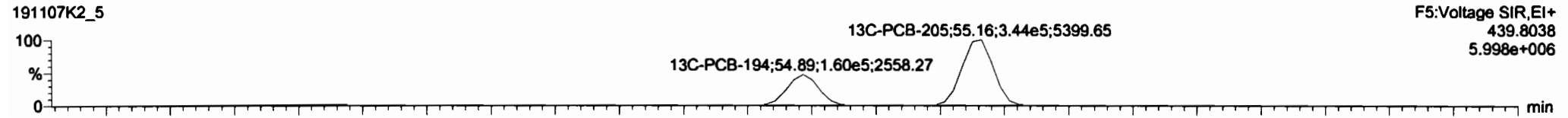
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Name: 191107K2\_5, Date: 08-Nov-2019, Time: 05:19:47, ID: 1903655-01 PDI-032SC-A-00-01-191010 6.12, Description: PDI-032SC-A-00-01-191010

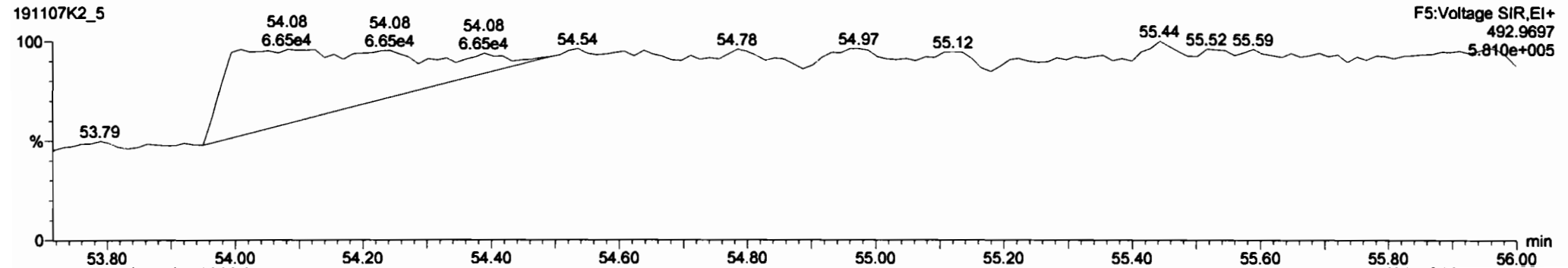
**PCB-195**



**13C-PCB-194**



**PFK5**



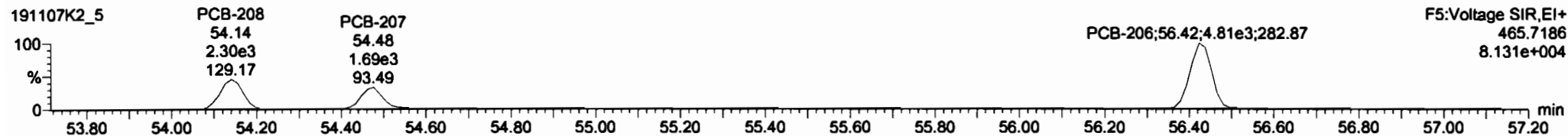
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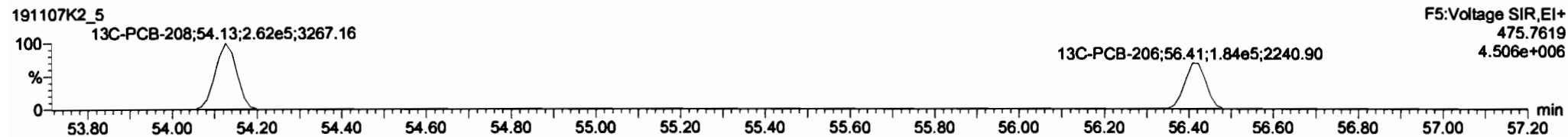
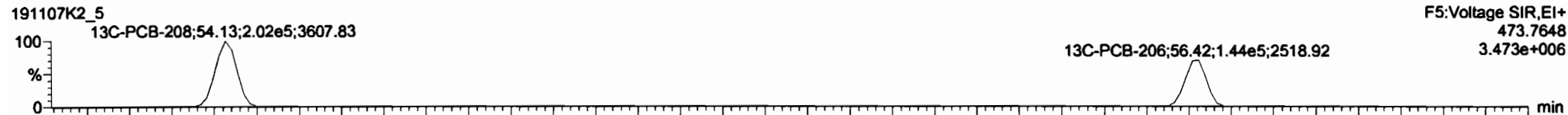
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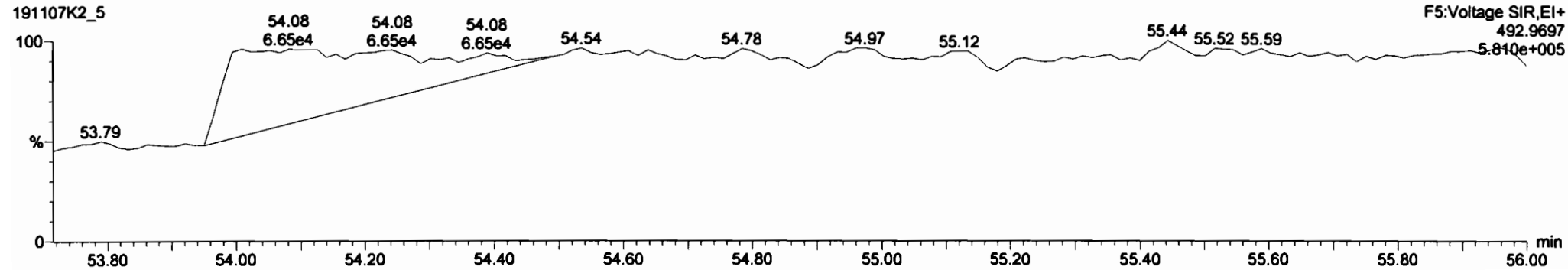
**PCB-208**



**13C-PCB-208**



**PFK5**



Dataset: Untitled

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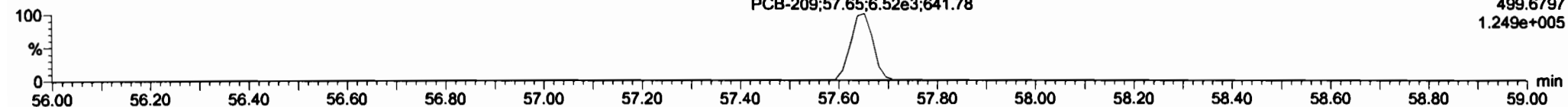
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**PCB-209**

191107K2\_5



191107K2\_5

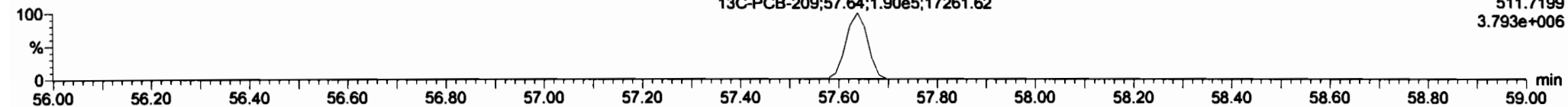


**13C-PCB-209**

191107K2\_5

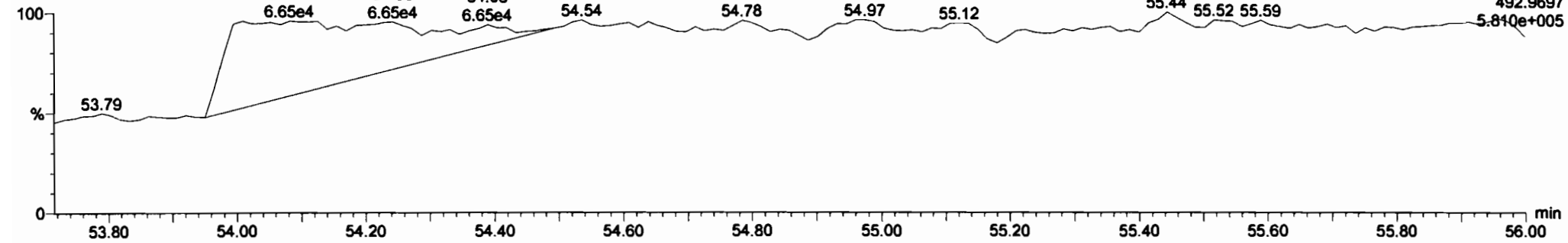


191107K2\_5



**PFK5**

191107K2\_5



Dataset: U:\VG11.PRO\Results\191114K2\191114K2-11.qld

Last Altered: Friday, November 15, 2019 14:48:43 Pacific Standard Time  
Printed: Monday, November 18, 2019 11:08:19 Pacific Standard Time

GRB 11/18/19

C1 01/07/2020

Method: Untitled 14 Nov 2019 15:03:40

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191114K2\_11, Date: 15-Nov-2019, Time: 02:20:59, ID: 1903655-06RE1 PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R	RRT	Check RRT	Conc	%Rec	DL	EMPC
1	32 PCB-54			NO	0.996	1.012	27.84		1.001		YES			3.74	
2	33 PCB-50			NO	0.781	1.012	29.08		1.045		YES			4.77	
3	34 PCB-53	1.26e4	0.74	NO	0.955	1.012	29.73	29.72	0.944	0.944	NO	308.8		4.52	308.8
4	35 PCB-51	3.68e3	0.75	NO	1.02	1.012	30.06	30.07	0.955	0.955	NO	84.20		4.22	84.20
5	36 PCB-45	1.26e4	0.73	NO	0.808	1.012	30.49	30.52	0.969	0.969	NO	365.6		5.34	365.6
6	37 PCB-46	5.06e3	0.63	YES	0.754	1.012	31.01	31.00	0.985	0.985	NO	157.0		5.73	140.2
7	38 PCB-52/69	1.38e5	0.73	NO	1.09	1.012	31.52	31.50	1.001	1.001	NO	2952		3.95	2952
8	39 PCB-73	3.41e2	0.75	NO	1.29	1.012	31.65	31.61	1.005	1.004	NO	6.185		3.35	6.185
9	40 PCB-43/49	8.57e4	0.73	NO	0.940	1.012	31.81	31.82	1.010	1.011	NO	2132		4.59	2132
10	41 PCB-47	3.30e4	0.72	NO	0.869	1.012	32.03	32.04	1.001	1.001	NO	810.6		4.79	810.6
11	42 PCB-48/75	2.59e4	0.72	NO	1.02	1.012	32.14	32.15	1.004	1.005	NO	539.5		4.06	539.5
12	43 PCB-65			NO	1.11	1.012	32.41		1.013		YES			3.75	
13	44 PCB-62			NO	1.07	1.012	32.52		1.016		YES			3.91	
14	45 PCB-44	8.32e4	0.69	NO	0.761	1.012	32.86	32.84	1.027	1.026	NO	2336		5.47	2336
15	46 PCB-42/59	3.15e4	0.72	NO	0.960	1.012	33.06	33.07	1.033	1.033	NO	699.8		4.33	699.8
16	47 PCB-41/64/71/72	1.12e5	0.72	NO	1.08	1.012	33.70	33.68	1.053	1.052	NO	2205		3.85	2205
17	48 PCB-68	1.36e3	0.66	NO	1.11	1.012	33.96	33.96	1.061	1.061	NO	26.20		3.75	26.20
18	49 PCB-40	1.01e4	0.72	NO	0.577	1.012	34.21	34.16	1.069	1.067	NO	372.3		7.22	372.3
19	50 PCB-57	8.62e2	0.69	NO	1.05	1.012	34.51	34.57	0.969	0.970	NO	17.13		3.59	17.13
20	51 PCB-67	4.91e3	0.69	NO	0.993	1.012	34.84	34.89	0.978	0.979	NO	103.0		3.79	103.0
21	52 PCB-58	5.91e2	0.99	YES	1.11	1.012	34.97	34.98	0.981	0.982	NO	11.07		3.28	9.826
22	53 PCB-63	7.45e3	0.70	NO	0.962	1.012	35.12	35.15	0.986	0.986	NO	161.3		3.91	161.3
23	54 PCB-74	6.00e4	0.72	NO	1.07	1.012	35.43	35.43	0.994	0.994	NO	1171		3.53	1171
24	55 PCB-61/70	1.92e5	0.73	NO	0.986	1.012	35.65	35.65	1.000	1.000	NO	4046		3.82	4046
25	56 PCB-76/66	1.64e5	0.72	NO	1.07	1.012	35.81	35.86	1.005	1.006	NO	3200		3.53	3200
26	57 PCB-80			NO	1.08	1.012	36.08		1.001		YES			3.03	
27	58 PCB-55	2.47e3	0.74	NO	1.07	1.012	36.41	36.40	1.010	1.009	NO	41.52		3.08	41.52
28	59 PCB-56/60	1.10e5	0.71	NO	0.934	1.012	36.90	36.92	1.023	1.024	NO	2117		3.52	2117
29	60 PCB-79	3.06e3	0.77	NO	1.04	1.012	38.03	38.03	1.054	1.055	NO	52.64		3.15	52.64
30	61 PCB-78	6.35e2	0.73	NO	1.03	1.012	38.74	38.67	0.987	0.985	NO	10.46		3.18	10.47

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Name: 191114K2\_11, Date: 15-Nov-2019, Time: 02:20:59, ID: 1903655-06RE1 PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc	%Rec	DL	EMPC
31	62 PCB-81	2.49e3	0.67	NO	0.933	1.012	39.28	39.34	1.000	1.002	NO	45.32		3.52	45.32
32	63 PCB-77	1.92e4	0.76	NO	1.03	1.012	39.90	39.90	1.000	1.000	NO	324.3		3.21	324.3
33	64 PCB-104			NO	0.995	1.012	32.68		1.001		YES			2.91	
34	65 PCB-96	1.21e3	1.55	NO	0.996	1.012	34.00	34.00	1.041	1.041	NO	30.82		2.90	30.82
35	66 PCB-103	1.95e3	1.30	YES	0.774	1.012	34.57	34.56	1.059	1.058	NO	63.81		3.73	59.19
36	67 PCB-100	6.35e2	1.32	YES	0.778	1.012	34.95	34.95	1.070	1.070	NO	20.69		3.72	19.31
37	68 PCB-94	4.10e2	1.70	NO	0.773	1.012	35.41	35.41	0.985	0.985	NO	16.80		4.62	16.80
38	69 PCB-95/98/102	1.22e5	1.47	NO	1.01	1.012	35.88	35.95	0.999	1.000	NO	3801		3.52	3801
39	70 PCB-93			NO	0.841	1.012	36.01		1.002		YES			4.25	
40	71 PCB-88/91	1.88e4	1.37	NO	0.890	1.012	36.36	36.36	1.012	1.012	NO	668.9		4.01	668.9
41	72 PCB-121			NO	1.39	1.012	36.48		1.015		YES			2.58	
42	73 PCB-84/92	6.20e4	1.55	NO	0.879	1.012	37.31	37.31	0.990	0.990	NO	2166		3.98	2166
43	74 PCB-89	2.13e3	1.75	NO	0.959	1.012	37.49	37.49	0.995	0.995	NO	68.23		3.64	68.23
44	75 PCB-90/101	1.96e5	1.49	NO	0.944	1.012	37.70	37.70	1.000	1.000	NO	6364		3.70	6364
45	76 PCB-113	2.64e2	2.00	YES	1.23	1.012	37.95	37.92	1.007	1.006	NO	6.562		2.84	5.613
46	77 PCB-99	7.24e4	1.46	NO	1.12	1.012	38.05	38.03	1.010	1.009	NO	1986		3.12	1986
47	78 PCB-119	4.96e3	1.46	NO	1.47	1.012	38.51	38.52	0.987	0.987	NO	111.6		2.59	111.6
48	79 PCB-108/112	7.57e3	1.42	NO	1.25	1.012	38.67	38.69	0.991	0.991	NO	200.7		3.04	200.7
49	80 PCB-83			NO	1.55	1.012	38.83		0.995		YES			2.46	
50	81 PCB-97	4.19e4	1.48	NO	1.07	1.012	39.06	39.04	1.001	1.000	NO	1291		3.54	1291
51	82 PCB-86	8.74e2	1.48	NO	0.996	1.012	39.21	39.19	1.005	1.004	NO	29.06		3.82	29.06
52	83 PCB-87/117/125	6.63e4	1.54	NO	1.33	1.012	39.32	39.34	1.008	1.008	NO	1647		2.85	1647
53	84 PCB-111/115	3.87e3	1.38	NO	1.60	1.012	39.49	39.49	1.012	1.012	NO	79.98		2.38	79.98
54	85 PCB-85/116	2.44e4	1.56	NO	1.22	1.012	39.61	39.60	1.015	1.015	NO	665.2		3.13	665.2
55	86 PCB-120	1.02e3	1.53	NO	1.68	1.012	39.88	39.82	1.022	1.020	NO	20.08		2.26	20.08
56	87 PCB-110	2.12e5	1.55	NO	1.49	1.012	40.02	40.01	1.026	1.025	NO	4724		2.56	4724
57	88 PCB-82	1.53e4	1.59	NO	0.674	1.012	40.67	40.66	0.976	0.975	NO	588.8		4.68	588.8
58	89 PCB-124	8.06e3	1.52	NO	1.16	1.012	41.38	41.37	0.993	0.992	NO	180.4		2.71	180.4
59	90 PCB-107/109	1.33e4	1.51	NO	1.17	1.012	41.53	41.53	0.996	0.996	NO	297.2		2.70	297.2
60	91 PCB-123	2.26e3	1.47	NO	1.04	1.012	41.70	41.70	1.000	1.000	NO	56.44		3.03	56.44
61	92 PCB-106/118	1.51e5	1.49	NO	1.07	1.012	41.91	41.89	1.001	1.000	NO	3753		2.96	3753
62	93 PCB-114	5.91e3	1.67	NO	1.16	1.012	42.56	42.54	1.000	1.000	NO	98.89		3.95	98.89
63	94 PCB-122	2.58e3	1.58	NO	0.973	1.012	42.69	42.72	1.003	1.004	NO	51.42		4.71	51.42

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#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
64	95 PCB-105	8.44e4	1.65	NO	1.10	1.012	43.43	43.45	1.000	1.001	NO	1450		4.06	1450
65	96 PCB-127			NO	1.11	1.012	43.79		1.000		YES			3.73	
66	97 PCB-126	1.80e3	1.66	NO	1.21	1.012	45.76	45.76	1.000	1.000	NO	27.57		3.68	27.57
67	98 PCB-155			NO	0.874	1.012	37.22		1.000		YES			2.89	
68	99 PCB-150	3.11e2	1.44	YES	0.881	1.012	38.52	38.52	1.036	1.036	NO	12.80		2.87	11.03
69	1... PCB-152			NO	1.00	1.012	39.00		1.048		YES			2.51	
70	1... PCB-145			NO	1.00	1.012	39.47		1.061		YES			2.53	
71	1... PCB-136	3.54e4	1.20	NO	0.843	1.012	39.80	39.80	1.070	1.070	NO	1427		2.99	1427
72	1... PCB-148	1.50e2	2.14	YES	0.693	1.012	39.91	39.93	1.073	1.074	NO	7.346		3.64	5.233
73	1... PCB-154	1.98e3	1.35	NO	0.724	1.012	40.44	40.44	1.087	1.087	NO	92.65		3.49	92.65
74	1... PCB-151	5.15e4	1.25	NO	0.632	1.012	41.09	41.09	1.105	1.105	NO	2767		3.99	2767
75	1... PCB-135	2.28e4	1.19	NO	0.716	1.012	41.32	41.31	1.111	1.110	NO	1081		3.53	1081
76	1... PCB-144	1.04e4	1.28	NO	0.667	1.012	41.42	41.42	1.114	1.114	NO	529.9		3.79	529.9
77	1... PCB-147	1.50e3	1.21	NO	0.661	1.012	41.55	41.55	1.117	1.117	NO	77.31		3.82	77.31
78	1... PCB-139/149	1.54e5	1.29	NO	0.738	1.012	41.83	41.83	1.125	1.125	NO	7077		3.42	7077
79	1... PCB-140	7.41e2	0.89	YES	0.627	1.012	42.02	42.04	1.130	1.130	NO	40.89		4.02	34.14
80	1... PCB-134/143	1.17e4	1.22	NO	0.733	1.012	42.49	42.49	0.975	0.975	NO	348.1		6.51	348.1
81	1... PCB-131/133	6.57e3	1.22	NO	0.790	1.012	42.78	42.79	0.982	0.982	NO	180.9		6.05	180.9
82	1... PCB-142	3.04e2	1.03	YES	0.708	1.012	42.93	42.94	0.985	0.985	NO	9.346		6.78	8.545
83	1... PCB-146/165	4.59e4	1.19	NO	0.959	1.012	43.19	43.21	0.991	0.991	NO	1040		4.98	1040
84	1... PCB-132/161	8.09e4	1.18	NO	0.974	1.012	43.42	43.47	0.996	0.997	NO	1804		4.90	1804
85	1... PCB-153	3.57e5	1.16	NO	1.01	1.012	43.60	43.62	1.000	1.001	NO	7676		4.72	7676
86	1... PCB-168			NO	1.02	1.012	43.83		1.006		YES			4.69	
87	1... PCB-141	6.64e4	1.17	NO	0.967	1.012	44.38	44.38	1.000	1.000	NO	1786		5.99	1786
88	1... PCB-137	7.11e3	1.14	NO	0.987	1.012	44.76	44.78	1.009	1.009	NO	187.2		5.87	187.2
89	1... PCB-130	1.28e4	1.07	NO	0.840	1.012	44.88	44.88	1.012	1.012	NO	395.9		6.89	395.9
90	1... PCB-138/163/164	3.13e5	1.18	NO	1.23	1.012	45.25	45.25	1.001	1.001	NO	6830		4.96	6830
91	1... PCB-158/160	3.29e4	1.17	NO	1.18	1.012	45.50	45.50	1.006	1.006	NO	747.5		5.16	747.5
92	1... PCB-129	6.93e3	1.27	NO	0.819	1.012	45.75	45.76	1.012	1.012	NO	226.7		7.42	226.7
93	1... PCB-166	9.50e2	1.56	YES	1.07	1.012	46.24	46.24	0.993	0.993	NO	17.95		4.22	15.70
94	1... PCB-159	6.98e3	1.16	NO	1.12	1.012	46.58	46.64	1.000	1.002	NO	125.7		4.03	125.7
95	1... PCB-128/162	3.00e4	1.16	NO	0.851	1.012	46.87	46.85	1.007	1.006	NO	712.3		5.31	712.3
96	1... PCB-167	1.04e4	1.13	NO	1.04	1.012	47.28	47.28	1.000	1.000	NO	211.0		4.47	211.0

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
97	1... PCB-156	2.78e4	1.18	NO	1.06	1.012	48.61	48.61	1.000	1.000	NO	570.7		4.60	570.7
98	1... PCB-157	4.55e3	1.12	NO	0.978	1.012	48.91	48.89	1.001	1.000	NO	101.2		5.22	101.2
99	1... PCB-169			NO	1.11	1.012	51.17		1.000		YES			4.64	
100	1... PCB-188			NO	1.19	1.012	43.25		1.001		YES			2.88	
101	1... PCB-184			NO	1.17	1.012	43.69		1.011		YES			2.95	
102	1... PCB-179	7.04e4	1.03	NO	1.18	1.012	44.50	44.50	1.030	1.030	NO	1680		2.92	1680
103	1... PCB-176	2.00e4	1.02	NO	1.16	1.012	44.97	44.97	1.041	1.041	NO	482.8		2.97	482.8
104	1... PCB-186	1.91e2	0.91	NO	1.22	1.012	45.59	45.61	1.055	1.056	NO	4.406		2.82	4.406
105	1... PCB-178	2.05e4	1.01	NO	0.830	1.012	46.10	46.11	1.067	1.067	NO	694.0		4.14	694.0
106	1... PCB-175	4.20e3	1.10	NO	0.849	1.012	46.46	46.49	1.075	1.076	NO	138.8		4.05	138.8
107	1... PCB-182/187	1.41e5	1.02	NO	0.960	1.012	46.66	46.64	1.080	1.079	NO	4107		3.58	4107
108	1... PCB-183	6.69e4	1.03	NO	0.957	1.012	46.99	46.98	1.088	1.087	NO	1961		3.59	1961
109	1... PCB-185	1.22e4	1.10	NO	1.32	1.012	47.66	47.66	0.955	0.955	NO	348.4		3.52	348.4
110	1... PCB-174	8.41e4	1.03	NO	1.22	1.012	48.04	48.04	0.962	0.962	NO	2600		3.81	2600
111	1... PCB-181	2.88e3	1.12	NO	1.41	1.012	48.13	48.11	0.964	0.964	NO	76.82		3.28	76.82
112	1... PCB-177	5.02e4	1.08	NO	1.24	1.012	48.31	48.30	0.968	0.968	NO	1525		3.74	1525
113	1... PCB-171	2.45e4	1.10	NO	1.24	1.012	48.61	48.61	0.974	0.974	NO	742.0		3.73	742.0
114	1... PCB-173	1.98e3	1.10	NO	1.14	1.012	49.04	49.04	0.983	0.983	NO	65.47		4.06	65.47
115	1... PCB-172	1.40e4	1.01	NO	1.31	1.012	49.53	49.52	0.992	0.992	NO	402.8		3.55	402.8
116	1... PCB-192			NO	1.70	1.012	49.72		0.996		YES			2.73	
117	1... PCB-180	2.34e5	1.01	NO	1.32	1.012	49.93	49.93	1.000	1.000	NO	6683		3.51	6683
118	1... PCB-193	1.30e4	0.92	NO	1.54	1.012	50.16	50.14	1.005	1.005	NO	317.5		3.01	317.5
119	1... PCB-191	4.53e3	0.83	YES	1.57	1.012	50.41	50.41	1.010	1.010	NO	109.6		2.98	96.15
120	1... PCB-170	8.01e4	1.01	NO	1.36	1.012	51.58	51.60	1.000	1.001	NO	2494		3.89	2494
121	1... PCB-190	2.27e4	1.04	NO	1.84	1.012	51.77	51.79	1.004	1.004	NO	522.5		2.87	522.5
122	1... PCB-189	3.89e3	1.14	NO	1.33	1.012	53.29	53.29	1.000	1.000	NO	98.29		2.79	98.29
123	1... PCB-202	9.29e3	0.81	NO	1.02	1.012	48.84	48.81	1.001	1.000	NO	296.9		1.79	296.9
124	1... PCB-201	7.21e3	0.83	NO	0.915	1.012	49.32	49.31	1.011	1.010	NO	257.8		2.00	257.8
125	1... PCB-204	1.73e2	0.56	YES	0.979	1.012	49.47	49.46	1.014	1.014	NO	5.793		1.97	4.418
126	1... PCB-197	2.09e3	0.78	NO	0.979	1.012	49.79	49.78	1.020	1.020	NO	69.99		1.87	69.99
127	1... PCB-200	7.20e3	0.87	NO	0.954	1.012	50.74	50.73	1.040	1.040	NO	246.9		1.92	246.9
128	1... PCB-198	2.09e3	0.93	NO	0.748	1.012	52.26	52.28	1.071	1.071	NO	91.52		2.45	91.52
129	1... PCB-199	3.10e4	0.90	NO	0.706	1.012	52.37	52.40	1.073	1.074	NO	1437		2.60	1437

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DU	EMPC
130	1... PCB-196/203	4.11e4	0.82	NO	0.785	1.012	52.71	52.70	1.080	1.080	NO	1713		2.34	1713
131	1... PCB-195	1.94e4	0.88	NO	1.03	1.012	53.97	53.97	0.984	0.984	NO	676.6		4.12	676.6
132	1... PCB-194	4.06e4	0.91	NO	1.16	1.012	54.89	54.89	1.000	1.000	NO	1268		3.69	1268
133	1... PCB-205	2.66e3	0.83	NO	1.40	1.012	55.15	55.15	1.005	1.005	NO	68.59		3.04	68.59
134	1... PCB-208	5.46e3	1.29	NO	0.934	1.012	54.11	54.11	1.000	1.000	NO	162.3		1.73	162.3
135	1... PCB-207	3.33e3	1.33	NO	0.912	1.012	54.43	54.45	1.006	1.007	NO	101.4		1.77	101.4
136	1... PCB-206	1.44e4	1.32	NO	0.987	1.012	56.41	56.41	1.000	1.000	NO	613.6		2.31	613.6
137	1... PCB-209	1.48e4	1.14	NO	0.943	1.012	57.61	57.62	1.000	1.000	NO	637.3		2.93	637.3
138	1... 13C-PCB-54	9.28e5	0.74	NO	1.10	1.012	27.78	27.82	0.753	0.754	NO	11860	60.1	8.28	
139	1... 13C-PCB-52	8.44e5	0.72	NO	0.844	1.012	31.47	31.49	0.853	0.853	NO	14040	71.1	10.8	
140	1... 13C-PCB-47	9.25e5	0.74	NO	0.893	1.012	31.99	32.01	0.867	0.867	NO	14540	73.6	10.2	
141	1... 13C-PCB-70	9.49e5	0.75	NO	1.01	1.012	35.61	35.63	0.965	0.966	NO	13220	66.9	9.03	
142	1... 13C-PCB-80	1.10e6	0.73	NO	1.05	1.012	36.04	36.06	0.977	0.977	NO	14760	74.7	8.70	
143	1... 13C-PCB-81	1.16e6	0.74	NO	0.985	1.012	39.26	39.26	1.064	1.064	NO	16560	83.9	9.24	
144	1... 13C-PCB-77	1.13e6	0.76	NO	0.958	1.012	39.87	39.88	1.080	1.081	NO	16590	84.0	9.49	
145	1... 13C-PCB-104	7.80e5	1.58	NO	1.10	1.012	32.66	32.66	0.827	0.827	NO	14120	71.5	4.91	
146	1... 13C-PCB-95	6.23e5	1.59	NO	0.852	1.012	35.93	35.93	0.910	0.910	NO	14530	73.5	6.32	
147	1... 13C-PCB-101	6.43e5	1.61	NO	0.814	1.012	37.68	37.68	0.955	0.955	NO	15700	79.5	6.62	
148	1... 13C-PCB-97	5.97e5	1.60	NO	0.709	1.012	39.02	39.02	0.989	0.989	NO	16710	84.6	7.60	
149	1... 13C-PCB-123	7.59e5	1.65	NO	0.922	1.012	41.65	41.68	1.055	1.056	NO	16350	82.8	5.85	
150	1... 13C-PCB-118	7.44e5	1.58	NO	0.975	1.012	41.84	41.87	1.060	1.061	NO	15160	76.8	5.53	
151	1... 13C-PCB-114	1.02e6	1.50	NO	1.52	1.012	42.53	42.54	0.908	0.909	NO	15960	80.8	10.2	
152	1... 13C-PCB-105	1.04e6	1.46	NO	1.58	1.012	43.42	43.42	0.927	0.927	NO	15730	79.6	9.81	
153	1... 13C-PCB-127	1.12e6	1.54	NO	1.62	1.012	43.78	43.78	0.935	0.935	NO	16420	83.1	9.58	
154	1... 13C-PCB-126	1.06e6	1.47	NO	1.45	1.012	45.73	45.75	0.976	0.977	NO	17500	88.6	10.7	
155	1... 13C-PCB-155	5.82e5	1.34	NO	1.03	1.012	37.19	37.20	0.942	0.942	NO	11260	57.0	2.69	
156	1... 13C-PCB-153	9.09e5	1.24	NO	1.42	1.012	43.59	43.59	0.931	0.931	NO	15220	77.0	8.49	
157	1... 13C-PCB-141	7.60e5	1.25	NO	1.14	1.012	44.37	44.36	0.947	0.947	NO	15850	80.2	10.6	
158	1... 13C-PCB-138	7.37e5	1.22	NO	1.18	1.012	45.23	45.22	0.966	0.966	NO	14890	75.4	10.2	
159	1... 13C-PCB-159	9.79e5	1.23	NO	1.43	1.012	46.57	46.56	0.994	0.994	NO	16290	82.5	8.43	
160	2... 13C-PCB-167	9.32e5	1.24	NO	1.42	1.012	47.27	47.26	1.009	1.009	NO	15600	79.0	8.48	
161	2... 13C-PCB-156	9.11e5	1.27	NO	1.40	1.012	48.59	48.59	1.038	1.038	NO	15530	78.6	8.65	
162	2... 13C-PCB-157	9.08e5	1.26	NO	1.41	1.012	48.87	48.87	1.044	1.044	NO	15390	77.9	8.59	



Dataset: U:\VG11.PRO\Results\191114K2\191114K2-11.qld

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Printed: Monday, November 18, 2019 11:08:19 Pacific Standard Time

Name: 191114K2\_11, Date: 15-Nov-2019, Time: 02:20:59, ID: 1903655-06RE1 PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
163	2... 13C-PCB-169	9.00e5	1.26	NO	1.35	1.012	51.14	51.15	1.092	1.092	NO	15940	80.7	8.98	
164	2... 13C-PCB-188	7.04e5	0.45	NO	1.46	1.012	43.21	43.21	0.926	0.926	NO	14230	72.0	6.05	
165	2... 13C-PCB-180	5.24e5	0.46	NO	0.932	1.012	49.91	49.91	1.070	1.070	NO	16620	84.2	9.49	
166	2... 13C-PCB-170	4.66e5	0.45	NO	0.796	1.012	51.58	51.56	1.106	1.105	NO	17310	87.6	11.1	
167	2... 13C-PCB-189	5.86e5	0.47	NO	1.09	1.012	53.26	53.27	1.142	1.142	NO	15890	80.5	8.11	
168	2... 13C-PCB-202	6.04e5	0.93	NO	1.45	1.012	48.82	48.80	1.046	1.046	NO	12300	62.3	5.11	
169	2... 13C-PCB-194	5.48e5	0.89	NO	0.714	1.012	54.88	54.87	0.995	0.995	NO	16750	84.8	11.2	
170	2... 13C-PCB-208	7.11e5	0.79	NO	0.896	1.012	54.12	54.10	0.982	0.981	NO	17310	87.6	6.69	
171	2... 13C-PCB-206	4.70e5	0.79	NO	0.653	1.012	56.39	56.40	1.023	1.023	NO	15730	79.6	9.19	
172	2... 13C-PCB-209	4.88e5	1.20	NO	0.806	1.012	57.62	57.61	1.045	1.045	NO	13210	66.9	2.70	
173	2... 13C-PCB-60	1.41e6	0.75	NO	1.00	1.012	36.90	36.90	1.000	0.000	NO	19750	100	9.10	
174	2... 13C-PCB-111	9.95e5	1.58	NO	1.00	1.012	39.47	39.47	1.000	0.000	NO	19750	100	5.39	
175	2... 13C-PCB-128	8.29e5	1.24	NO	1.00	1.012	46.82	46.83	1.000	0.000	NO	19750	100	12.1	
176	2... 13C-PCB-182	6.68e5	0.44	NO	1.00	1.012	46.65	46.66	0.000	0.000	NO	19750	100	8.85	
177	2... 13C-PCB-205	9.05e5	0.89	NO	1.00	1.012	55.15	55.14	1.000	0.000	NO	19750	100	8.02	
178	2... 13C-PCB-79	1.27e6	0.74	NO	1.03	1.012	38.03	38.02	1.031	1.030	NO	17350	87.8	8.82	
179	2... 13C-PCB-178	5.22e5	0.45	NO	0.875	1.012	46.10	46.09	0.988	0.988	NO	14220	72.0	8.08	
180	2... 13C-PCB-79	1.27e6	0.74	NO	1.05	1.012	37.99	38.02	0.967	0.968	NO	20730	105	11.2	
181	2... 13C-PCB-178	5.22e5	0.46	NO	0.975	1.012	46.10	46.09	0.924	0.923	NO	20180	102	11.3	

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Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191114K2\_11, Date: 15-Nov-2019, Time: 02:20:59, ID: 1903655-06RE1 PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R.	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	2... Total Tetra-PCBs				0.986	1.012	0.00		0.000		NO	24130		130	24280
2	2... 3rd Function Penta-PCBs				1.12	1.012	0.00		0.000		NO	28750	30,378	94.2	28830
3	2... 4th Function Penta-PCBs				1.11	1.012	0.00		0.000		NO	1628		20.1	1628
4	2... 3rd Function Hexa-PCBs				0.774	1.012	0.00		0.000		NO	13050	35,990	43.5	13100
5	2... 4th Function Hexa-PCBs				0.972	1.012	0.00		0.000		NO	22940		107	22970
6	2... Total Hepta-PCBs				1.26	1.012	0.00		0.000		NO	24940		77.3	25040
7	2... 4th Function Octa-PCBs				0.886	1.012	0.00		0.000		NO	4113	6,120	16.8	4118
8	2... 5th Function Octa-PCBs				1.20	1.012	0.00		0.000		NO	2013		10.9	2013
9	2... Total Nona-PCBs				0.945	1.012	0.00		0.000		NO	877.3		5.81	877.3
10	2... Deca-CB				0.943	1.012	0.00		0.000		NO	637.3		2.93	637.3

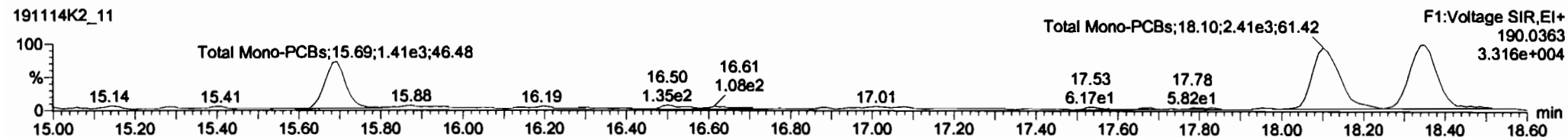
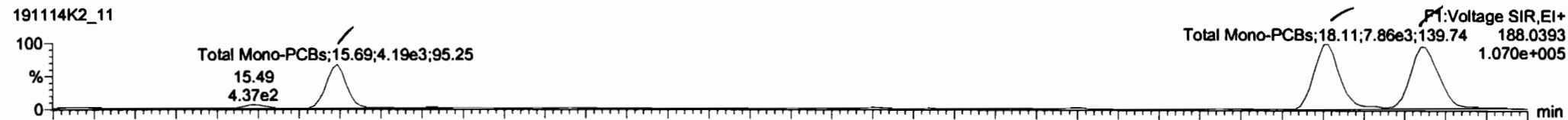
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30,070  
6,131

Dataset: Untitled

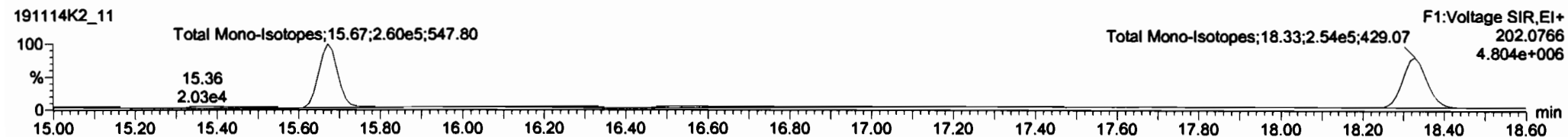
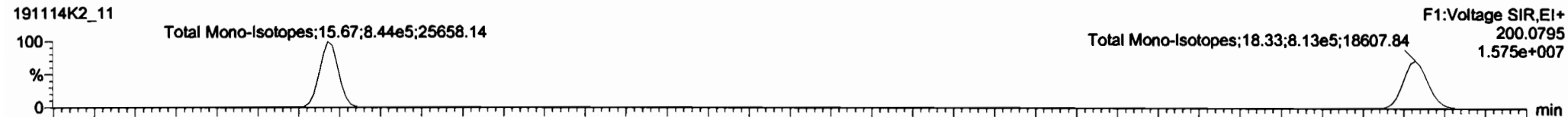
Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_11, Date: 15-Nov-2019, Time: 02:20:59, ID: 1903655-06RE1 PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

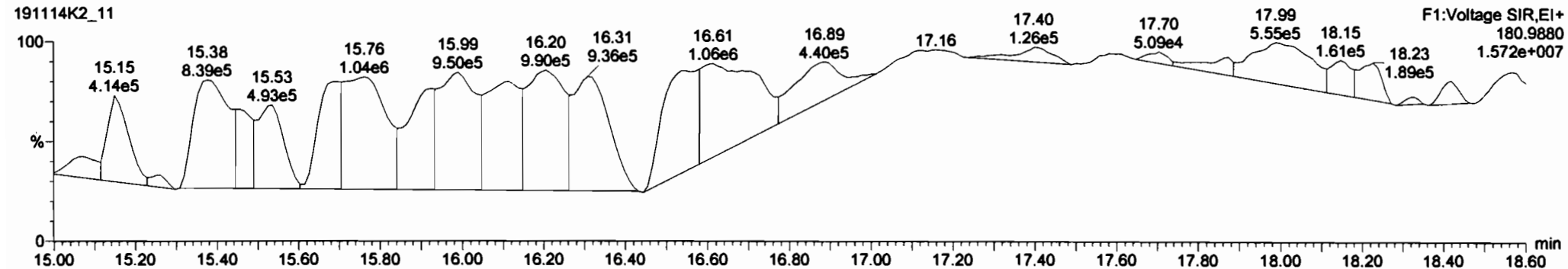
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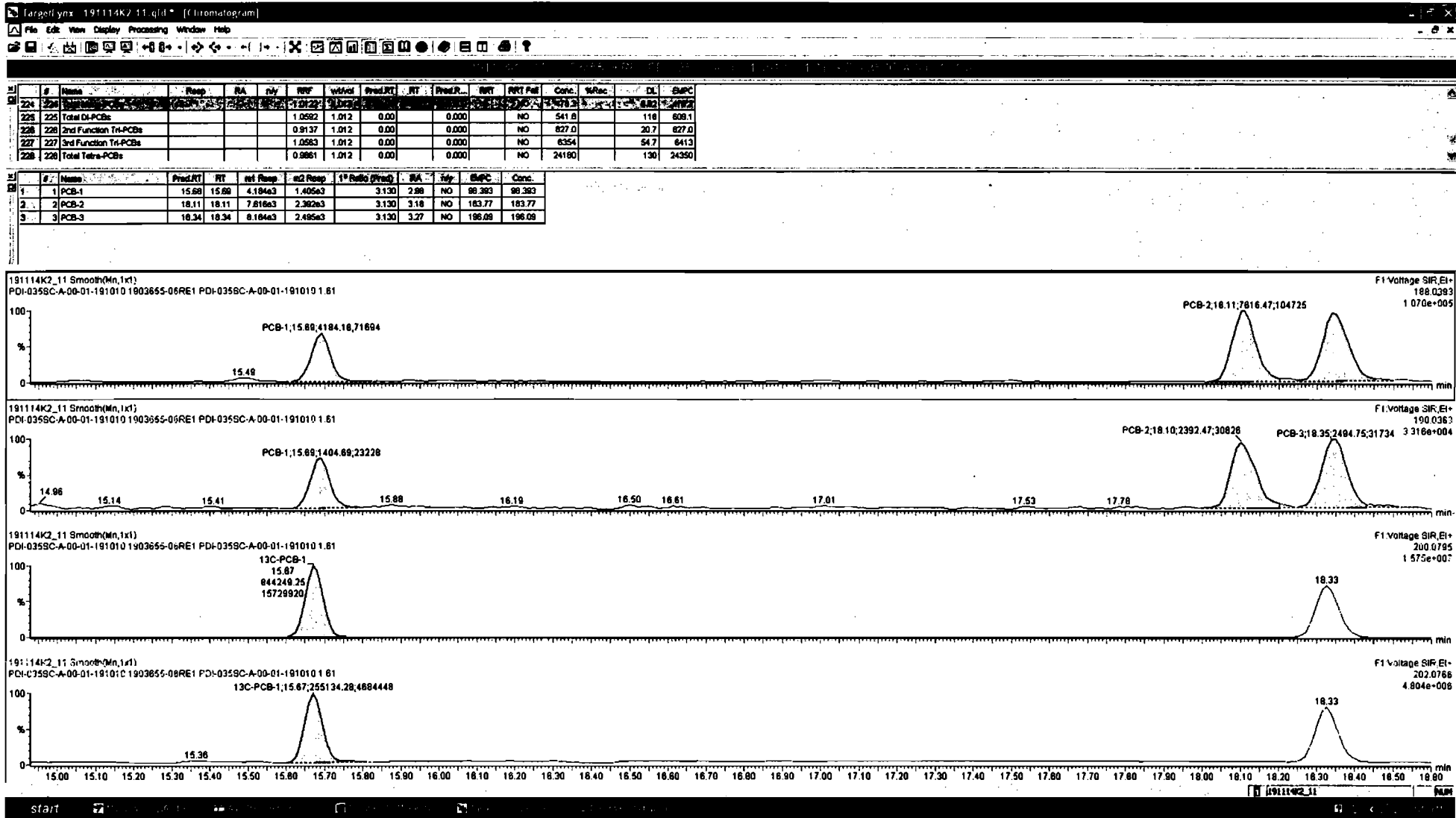


**13C-PCB-1**



**PFK1**





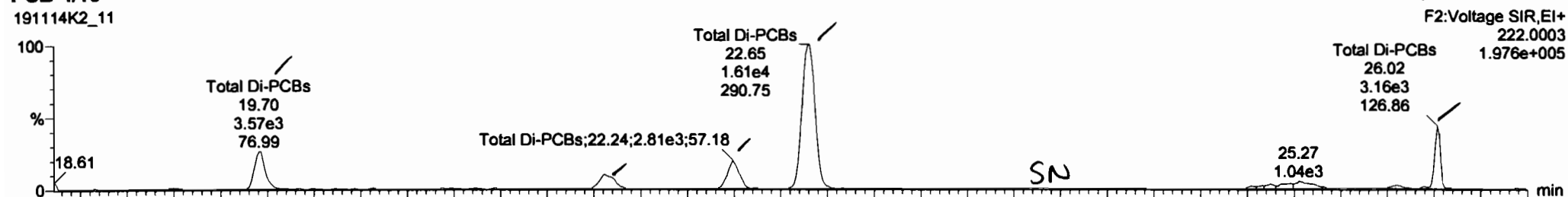
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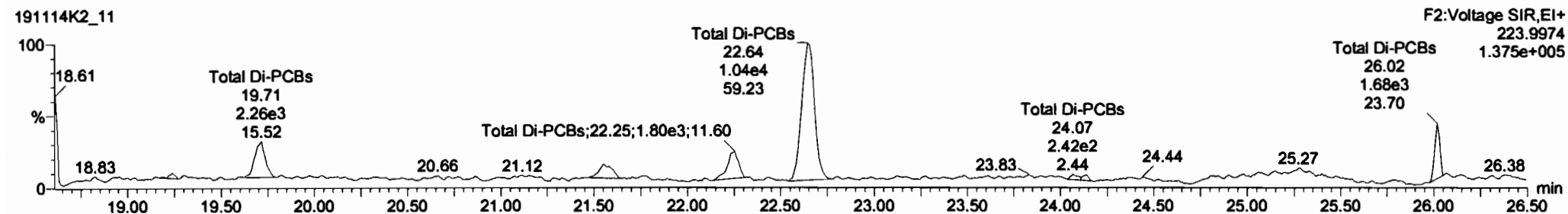
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**PCB-4/10**

191114K2\_11

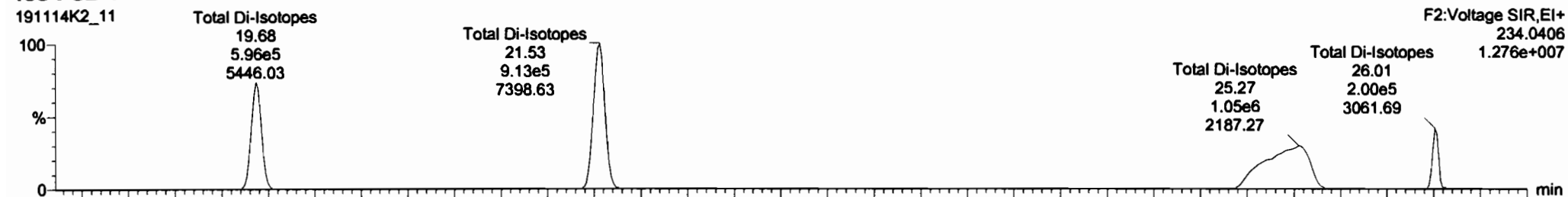


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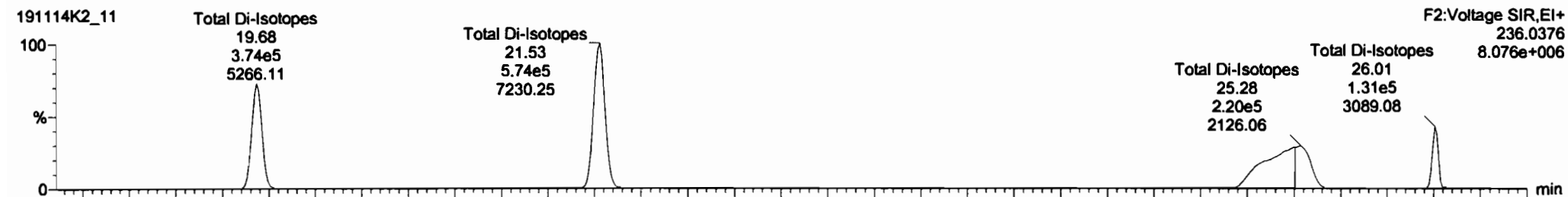


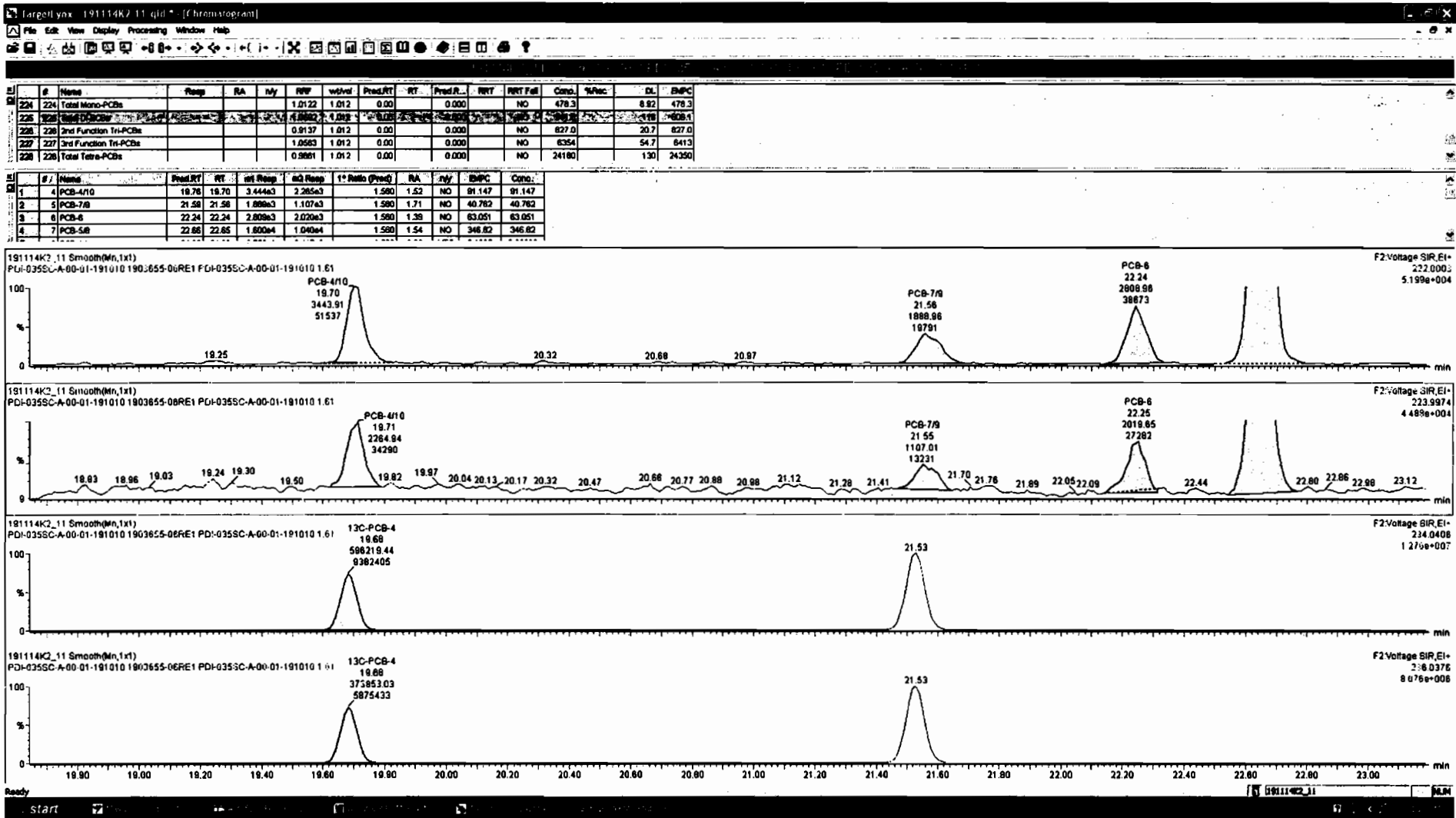
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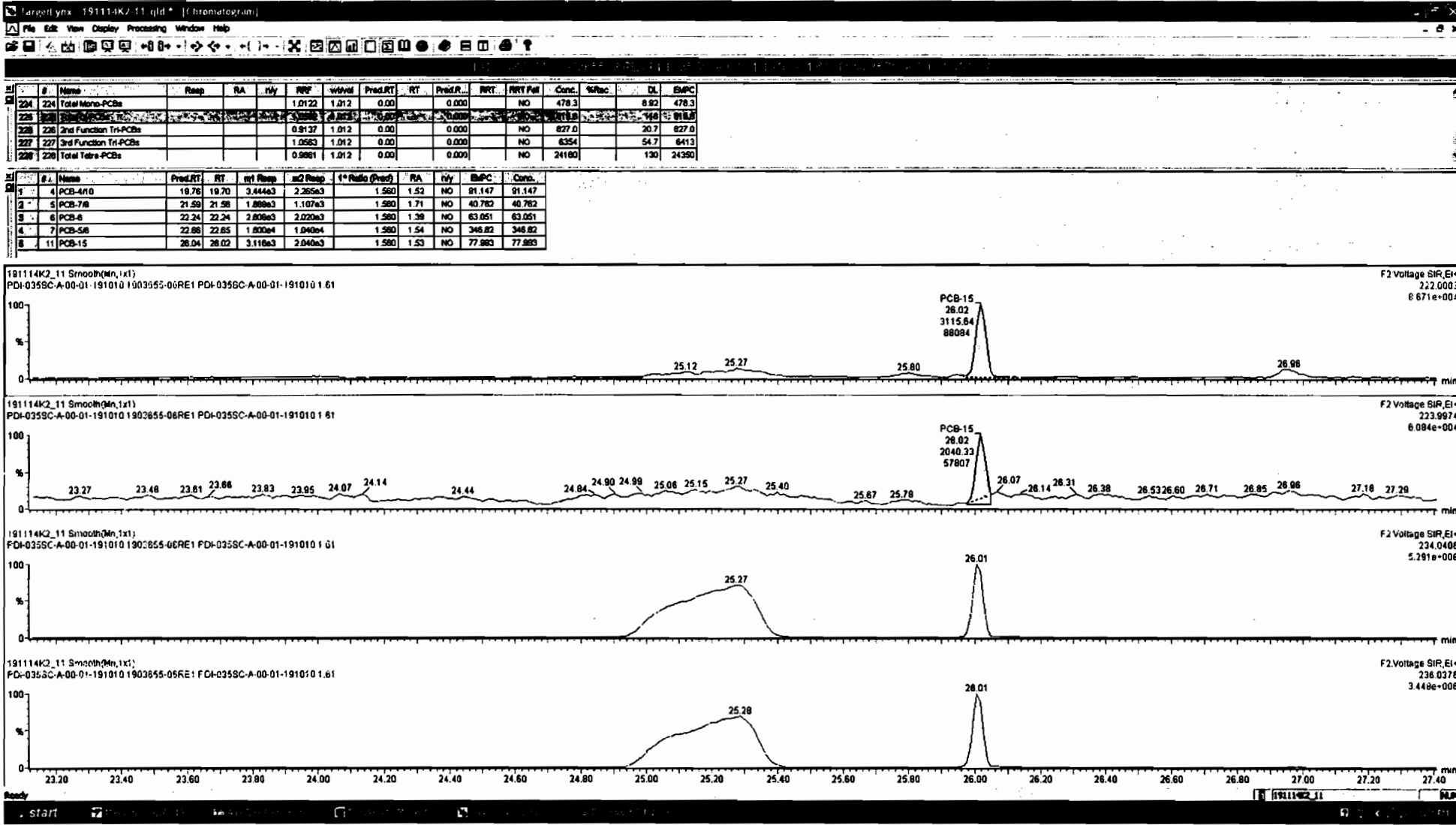
191114K2\_11



191114K2\_11







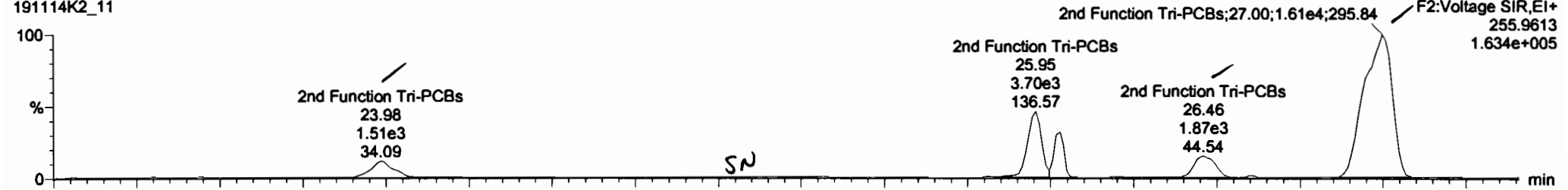
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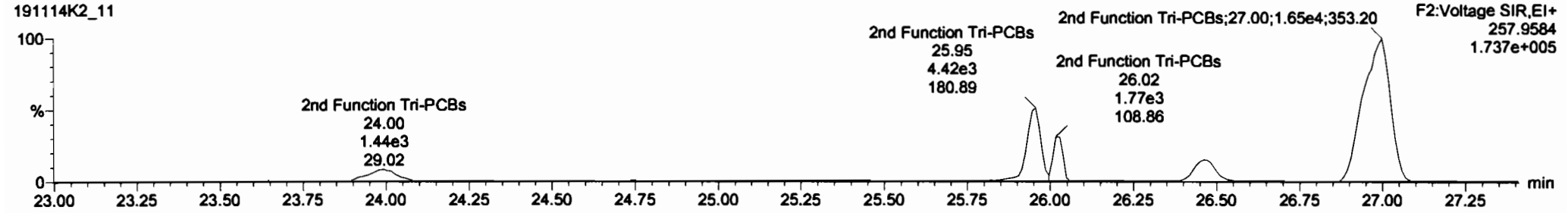
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PCB-19

191114K2\_11

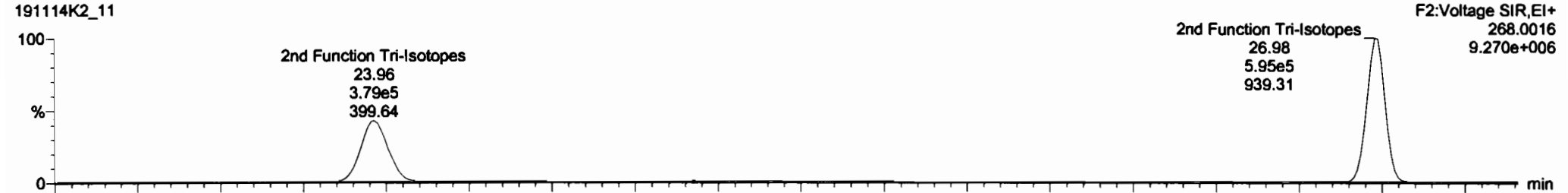


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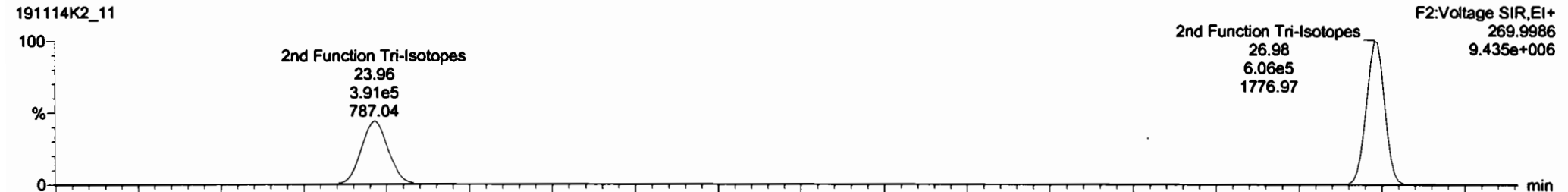


13C-PCB-19

191114K2\_11



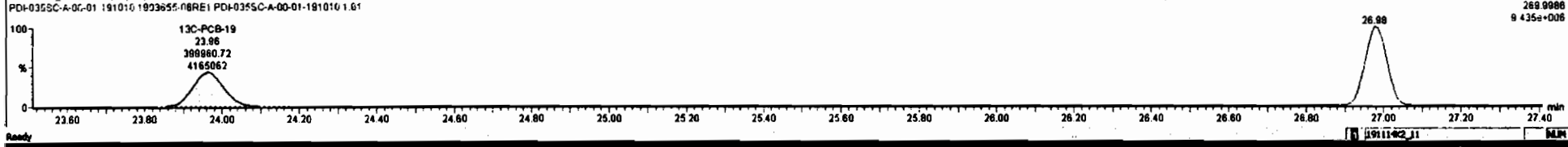
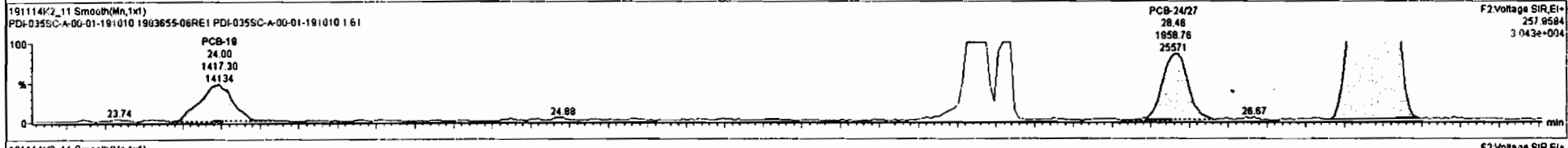
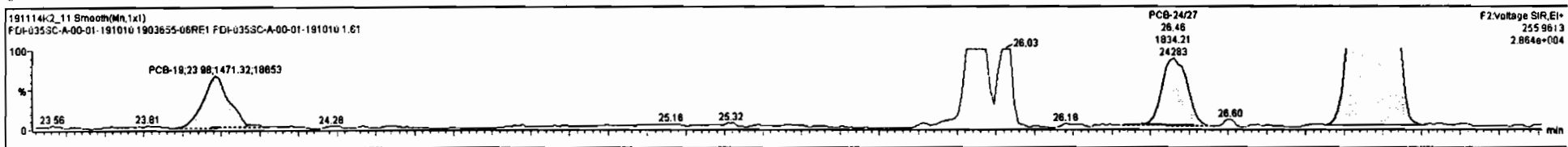
191114K2\_11





#	Name	Resp	RA	nly	RVF	wtVol	Pred.RT	RT	Pred.RT	RVF	RVF Fail	Conc.	%Rec	DL	EMPC
226	226 3rd Function Tri-PCBs				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	NO	6354		54.7	6413
228	228 Total Tetra-PCBs				0.9891	1.012	0.000		0.000		NO	24180		130	24350
229	229 3rd Function Penta-PCBs				1.1154	1.012	0.000		0.000		NO	26580		94.2	26670
230	230 4th Function Penta-PCBs				1.1112	1.012	0.000		0.000		NO	1650		20.1	1650

#	Name	Pred.RT	RT	Int Resp	Int Resp	* Ratio (Pred)	RA	nly	EMPC	Conc.
1	17 PCB-19	24.00	23.98	1.471e3	1.417e3	1.040	1.04	NO	79.662	79.662
2	16 PCB-24/27	26.47	26.46	1.834e3	1.959e3	1.040	0.94	NO	88.182	88.182
3	17 PCB-18/22	27.00	27.00	1.811e4	1.849e4	1.040	0.98	NO	676.42	676.42



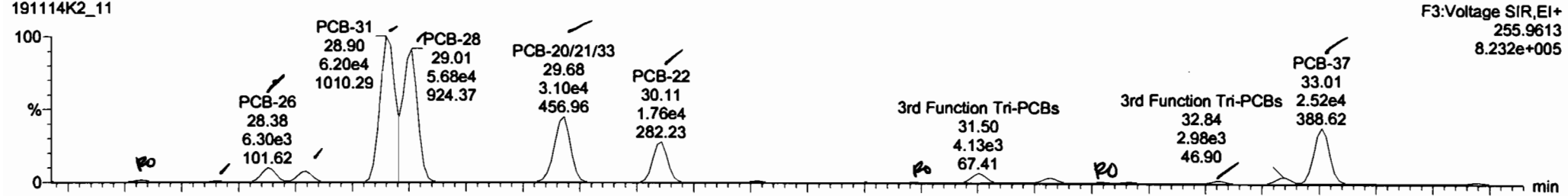
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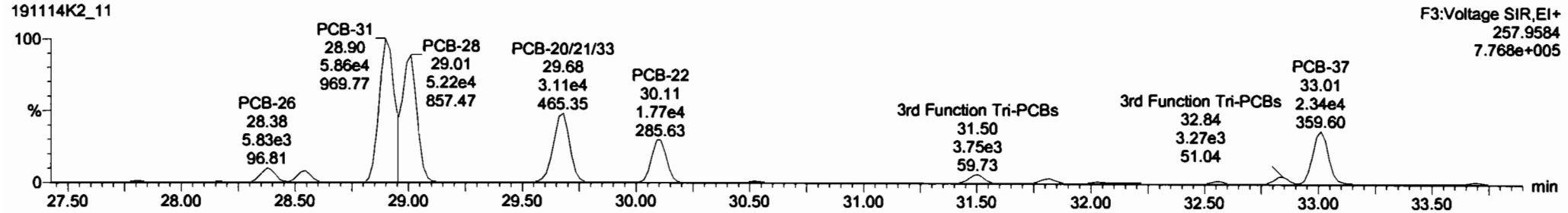
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PCB-34

191114K2\_11

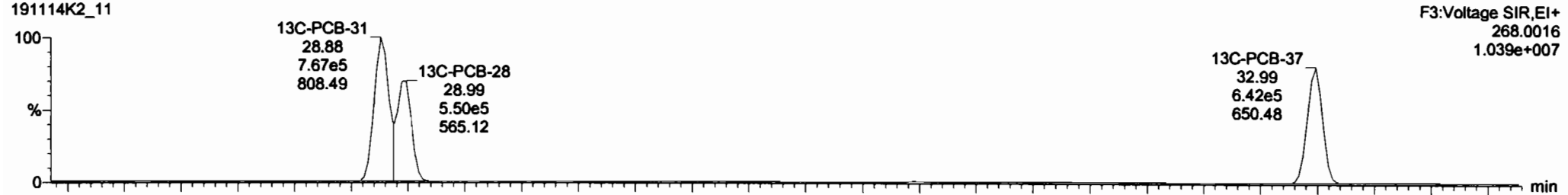


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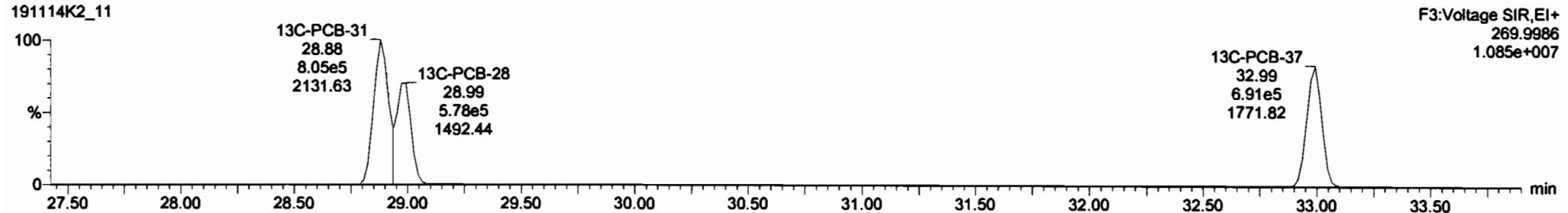


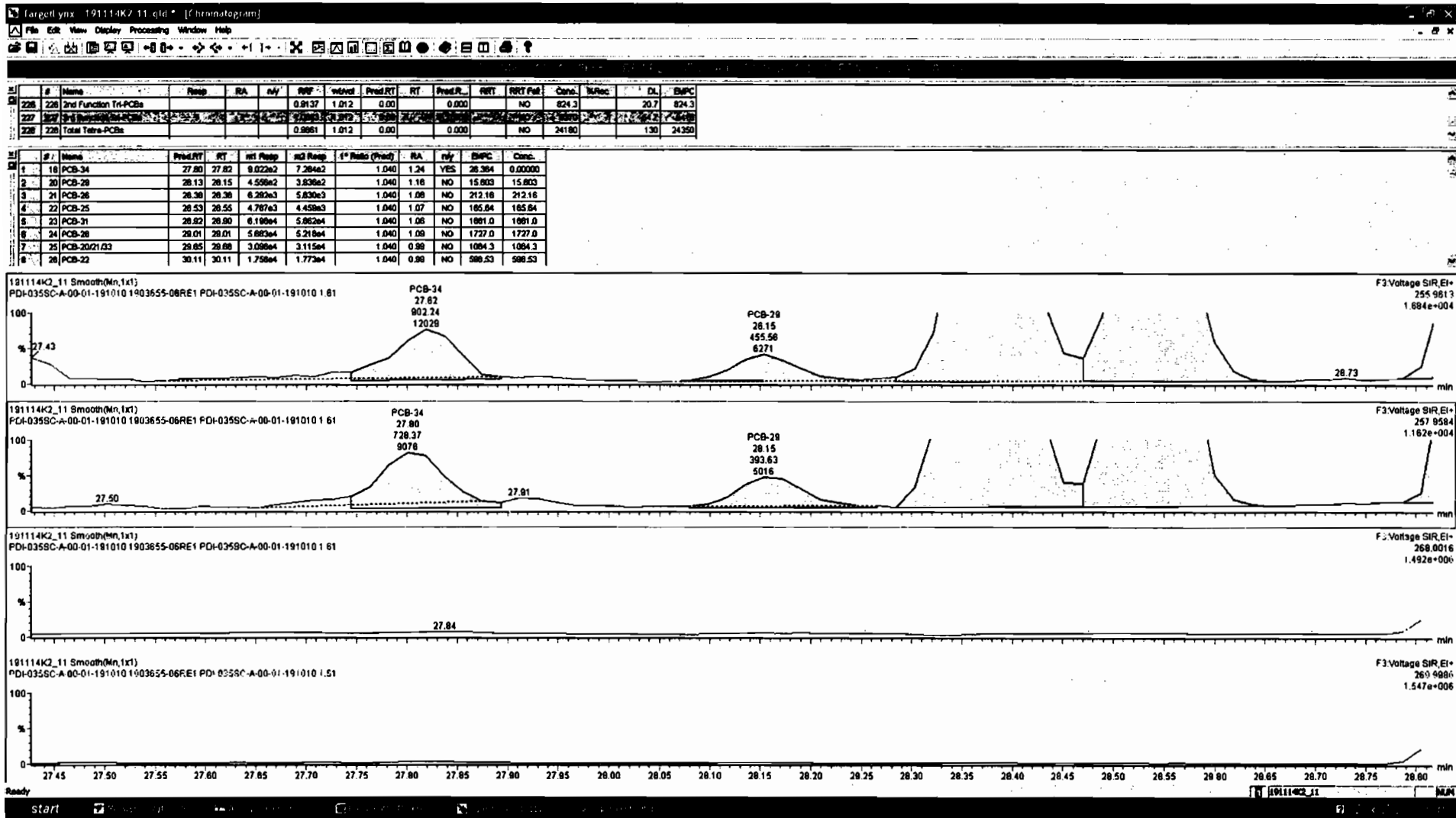
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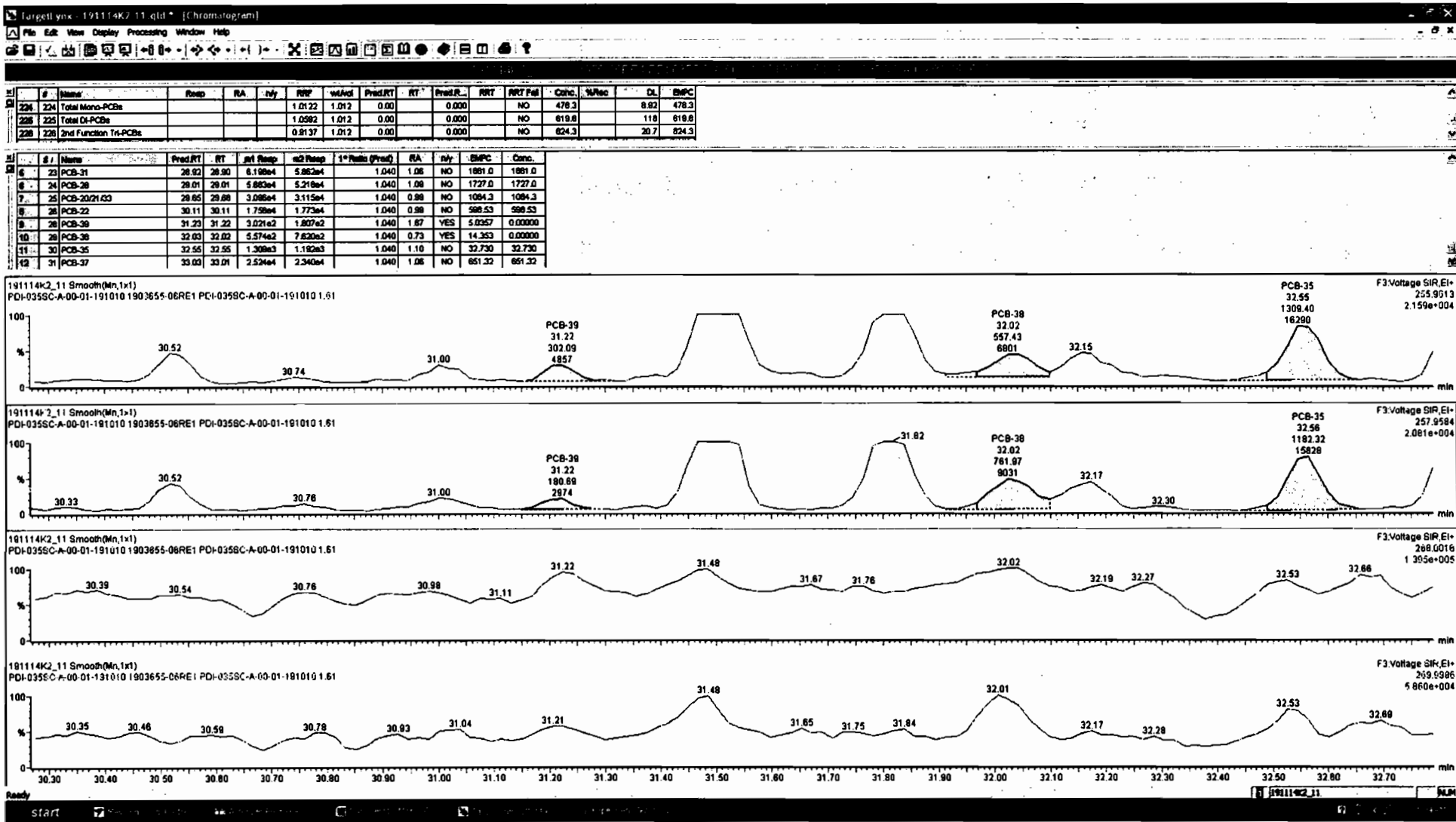
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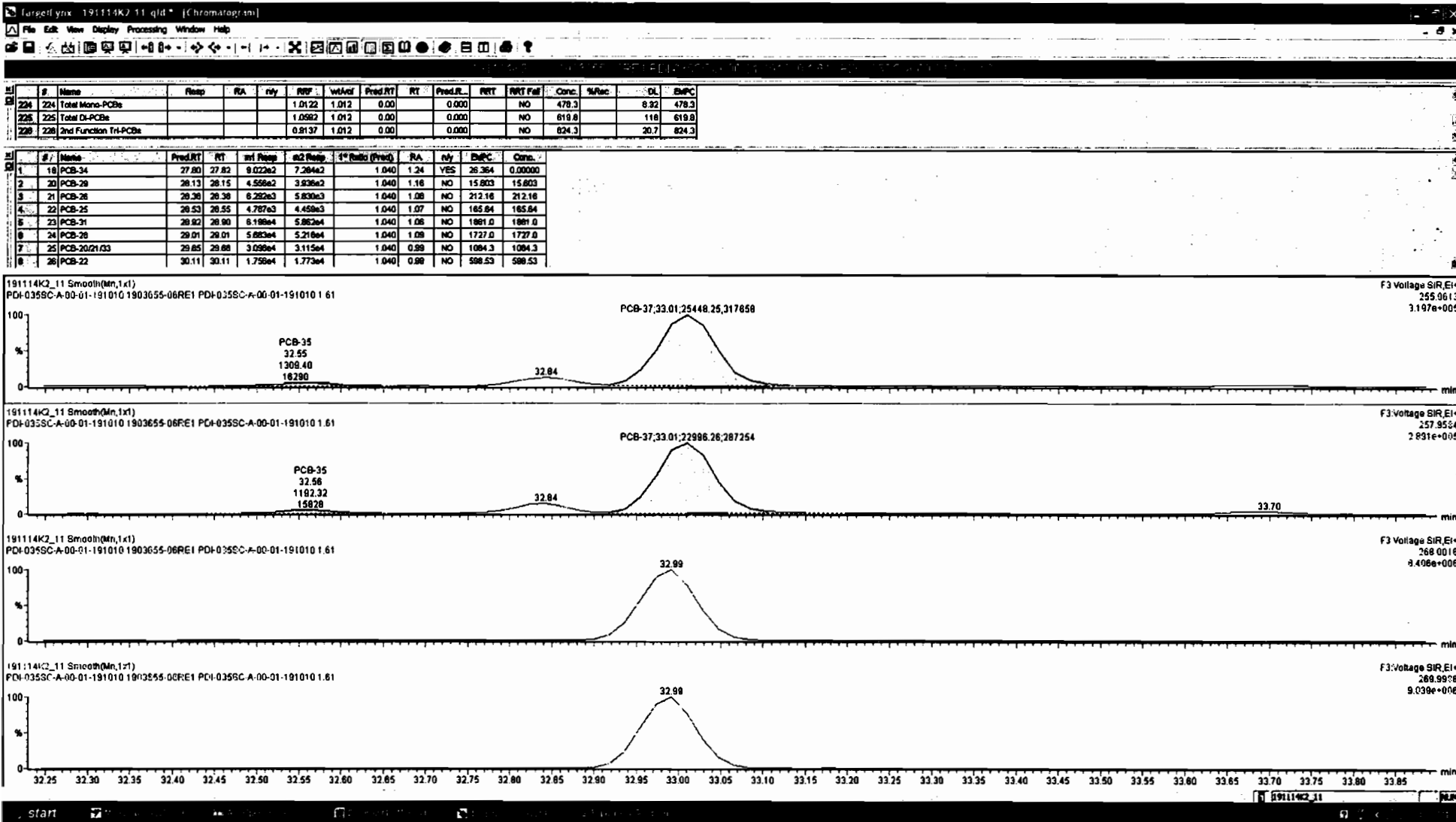


191114K2\_11







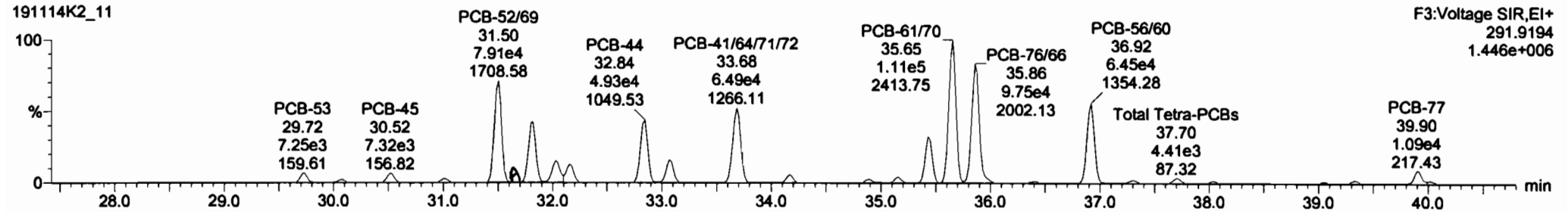
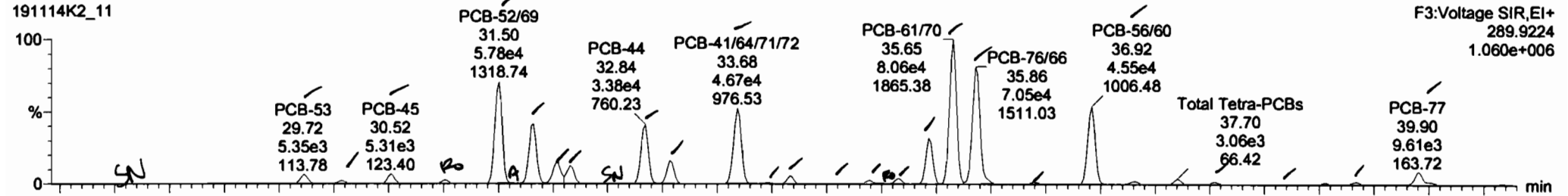


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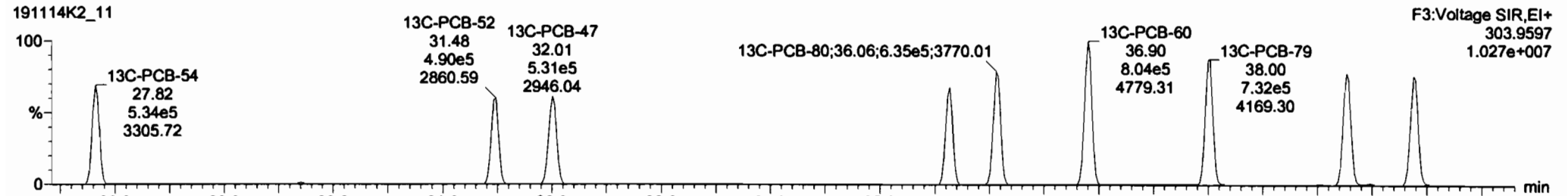
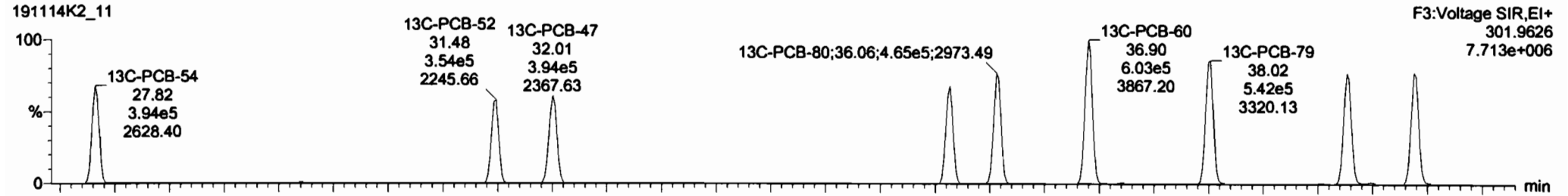
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Name: 191114K2\_11, Date: 15-Nov-2019, Time: 02:20:59, ID: 1903655-06RE1 PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

**PCB-54**



**13C-PCB-54**



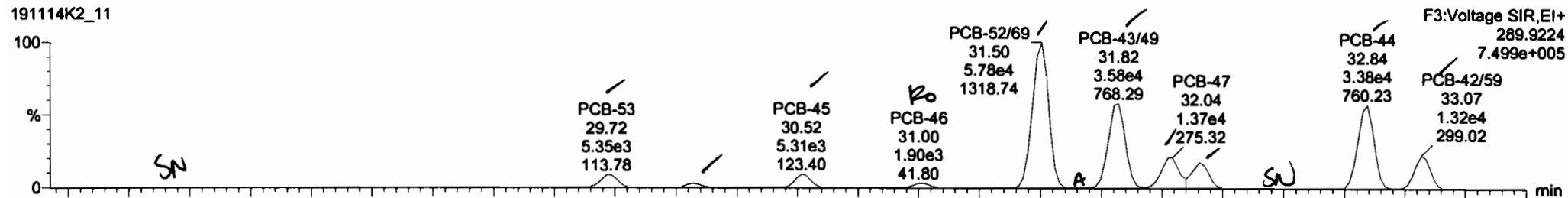
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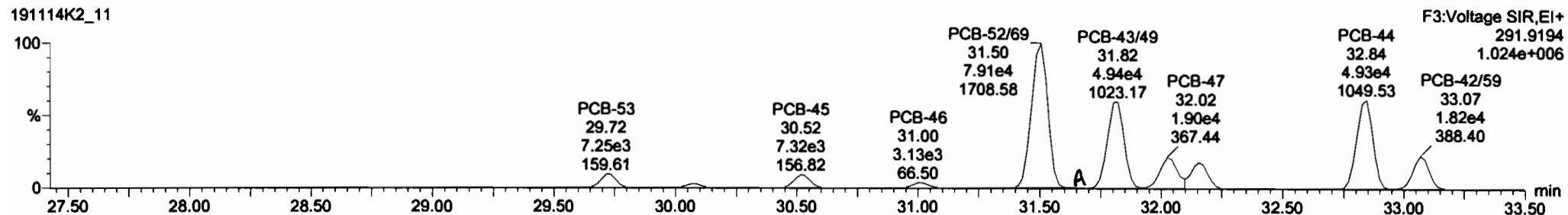
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**PCB-50**

191114K2\_11

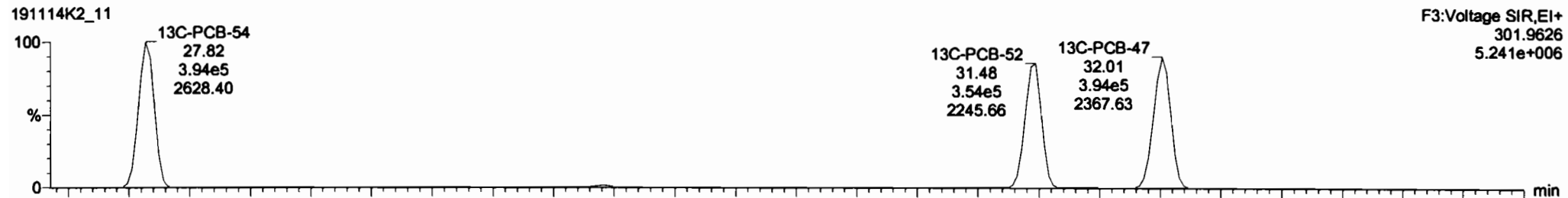


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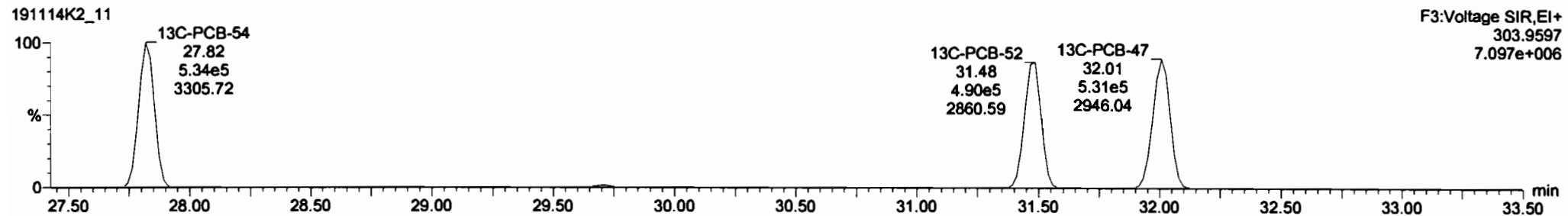


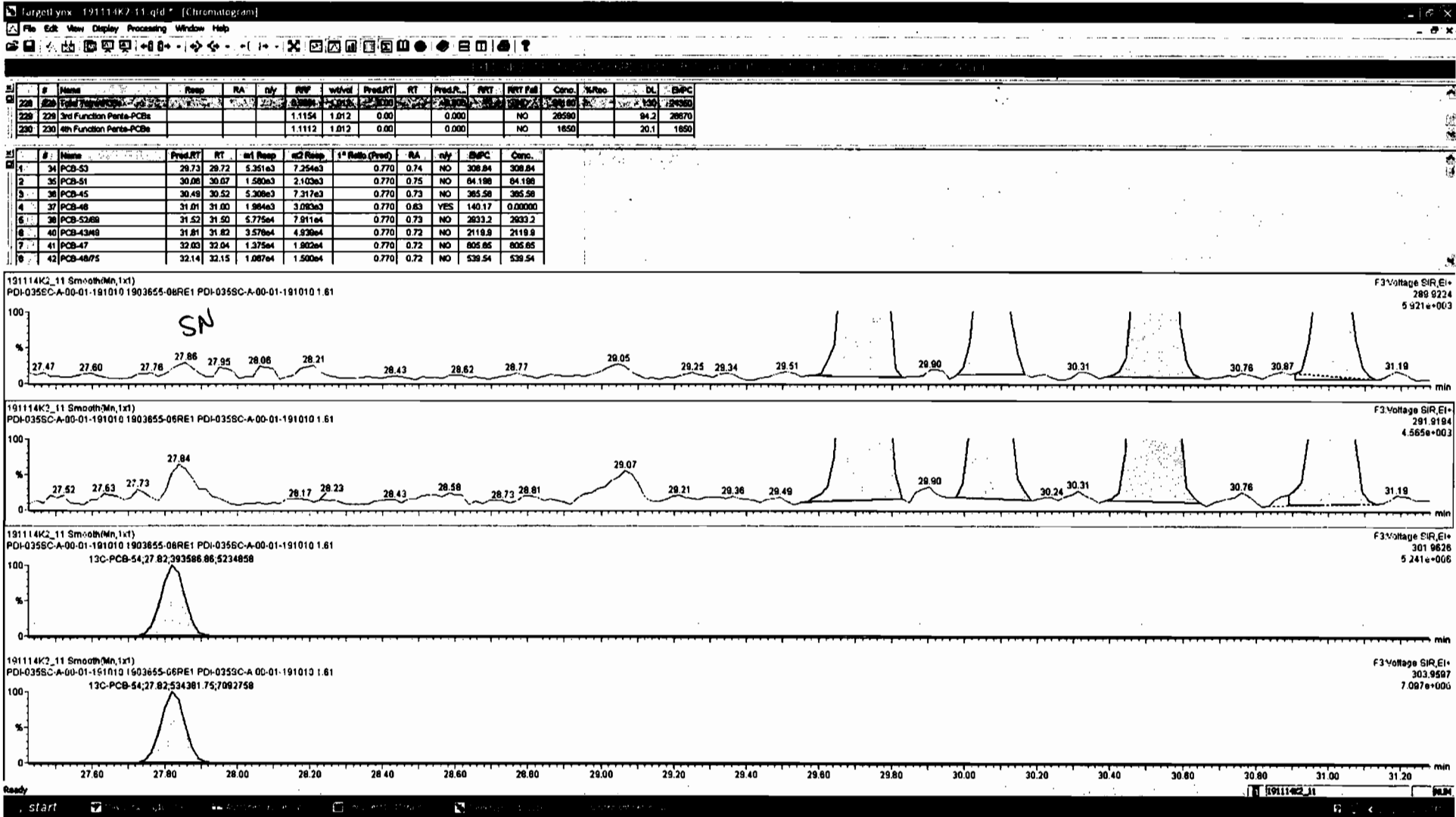
**13C-PCB-52**

191114K2\_11

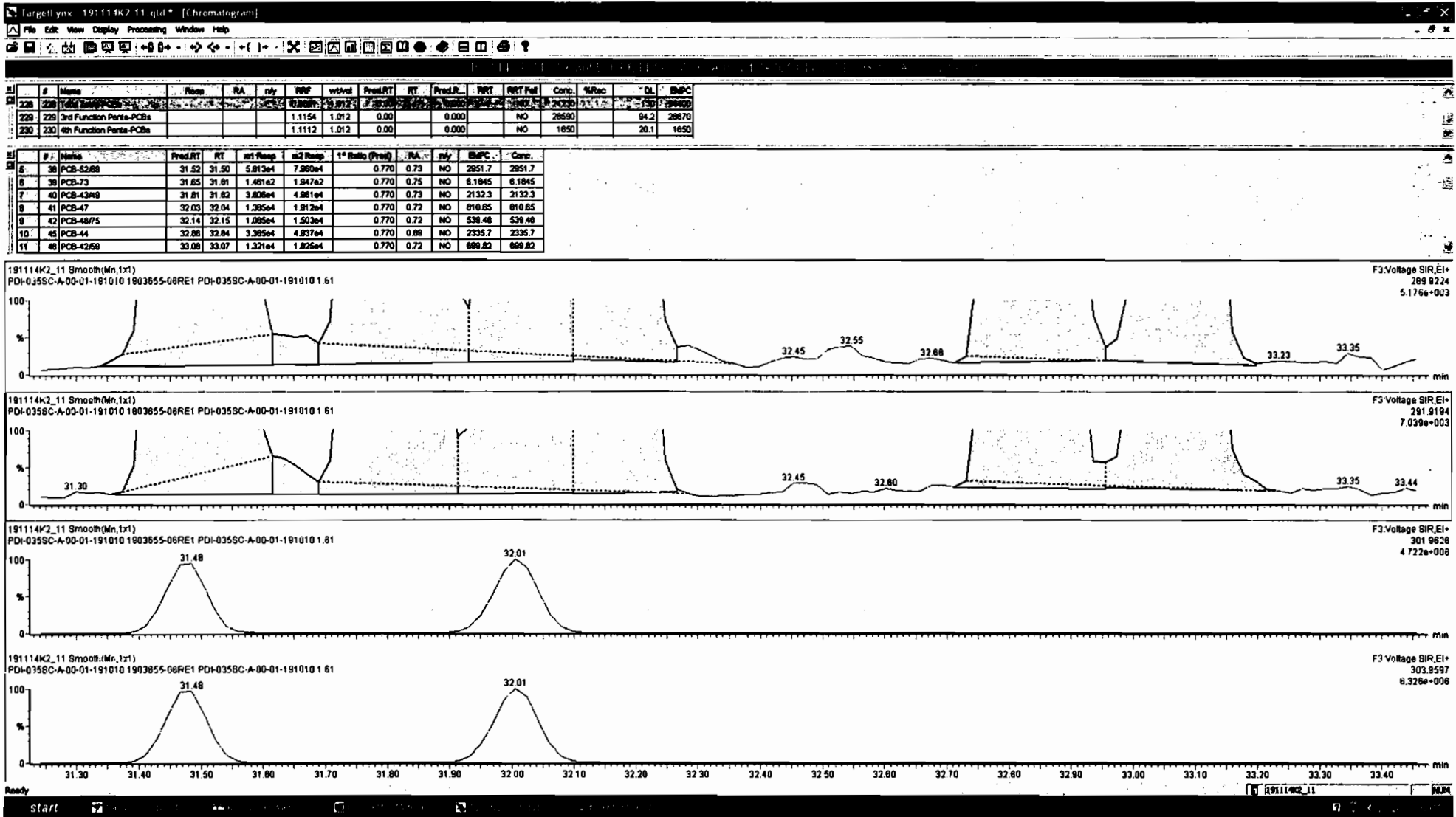


191114K2\_11









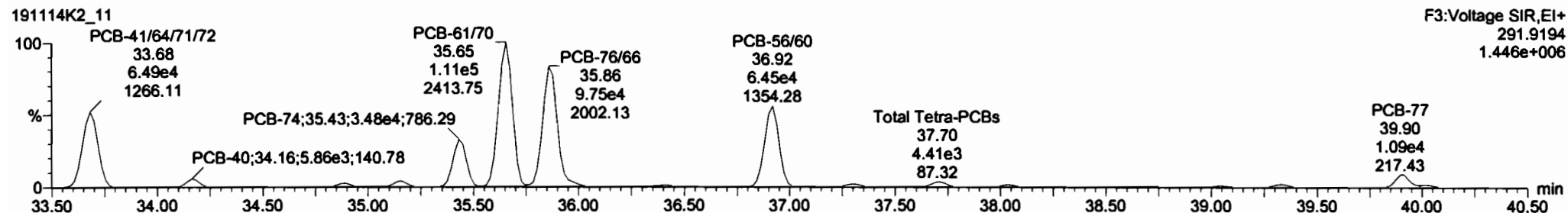
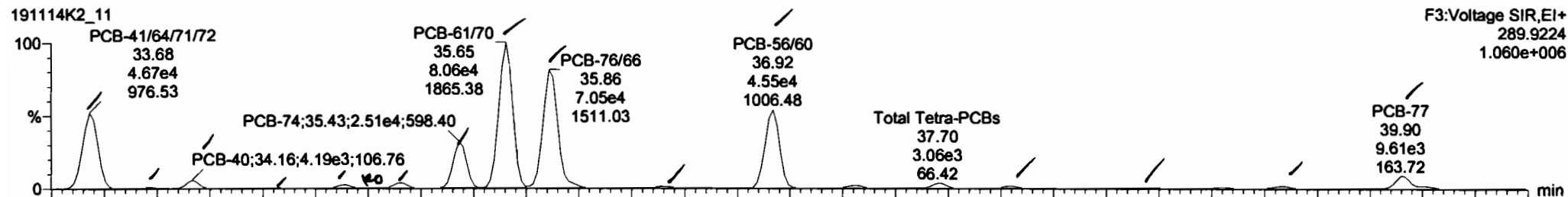
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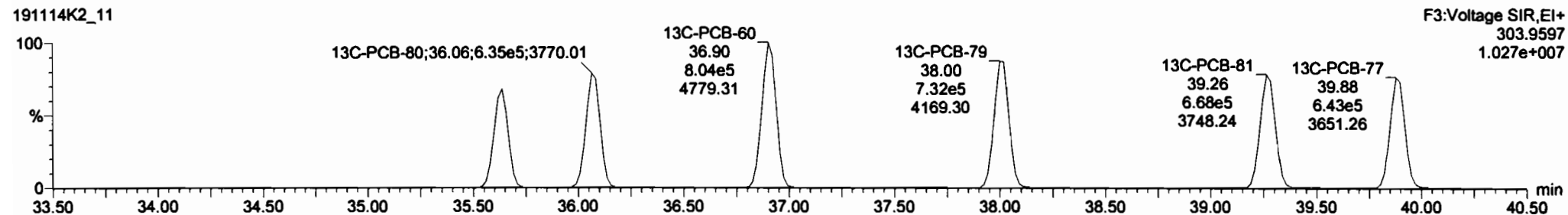
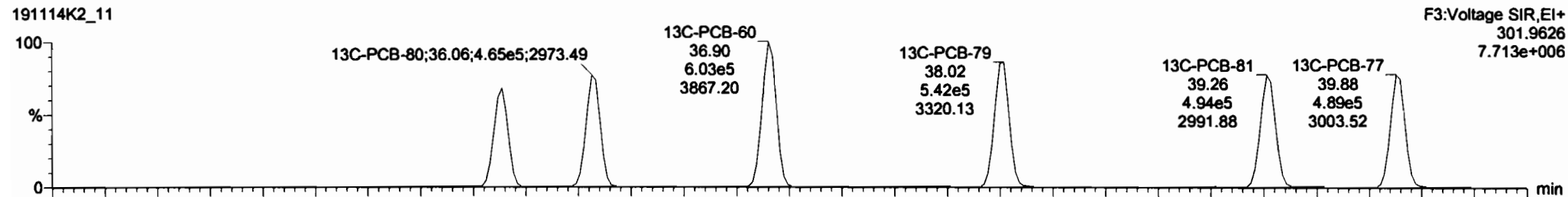
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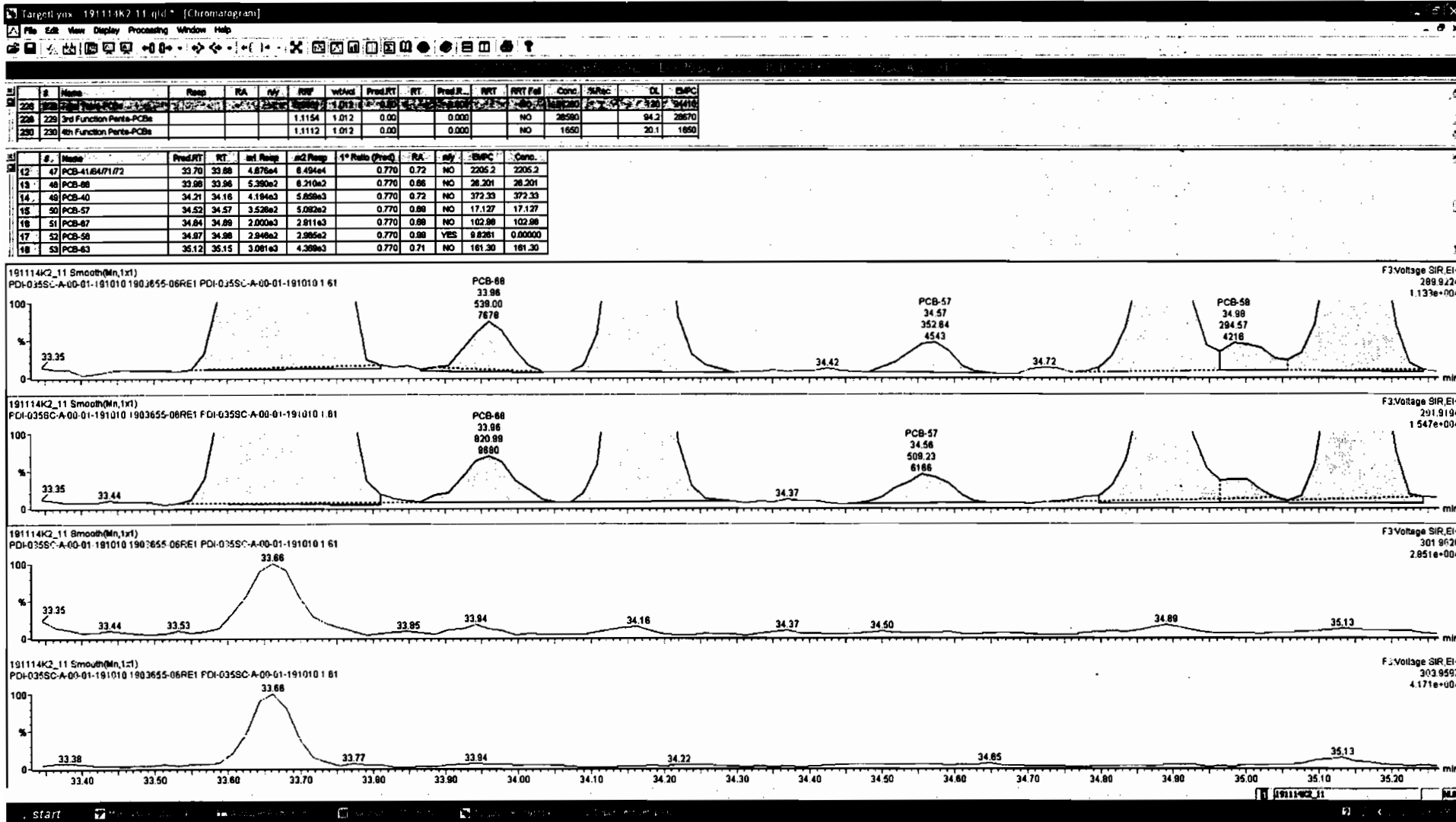
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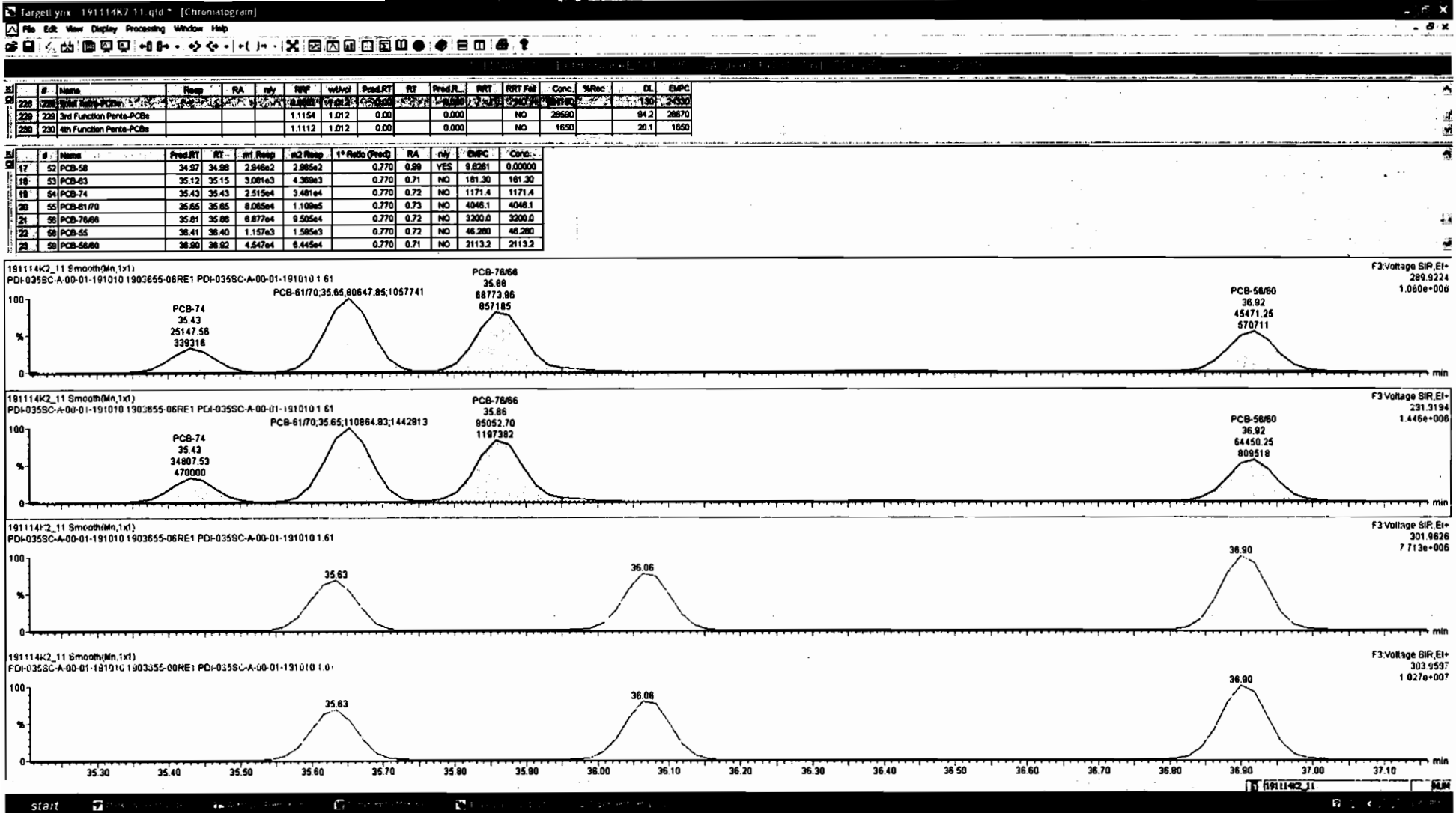
PCB-68

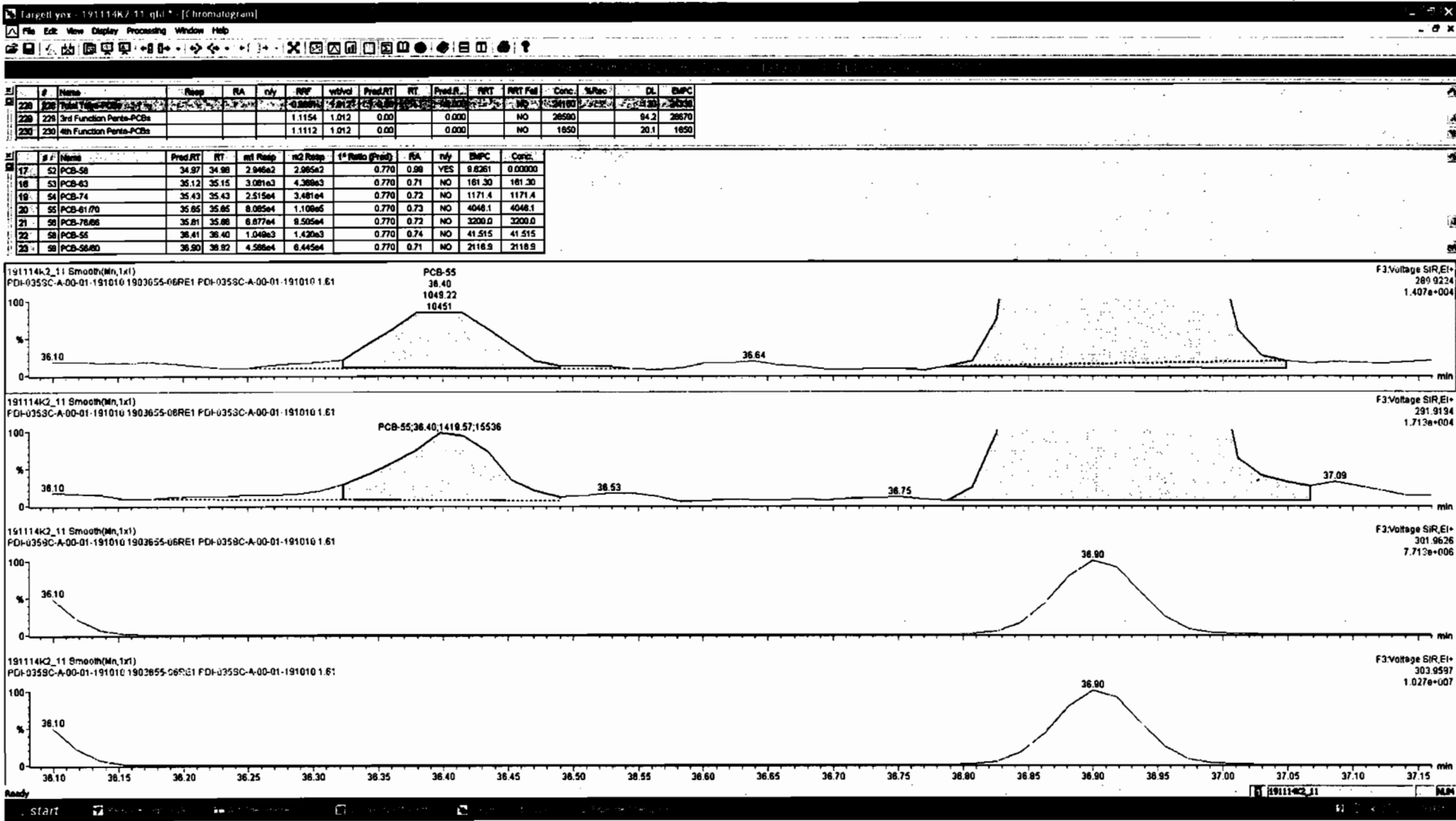


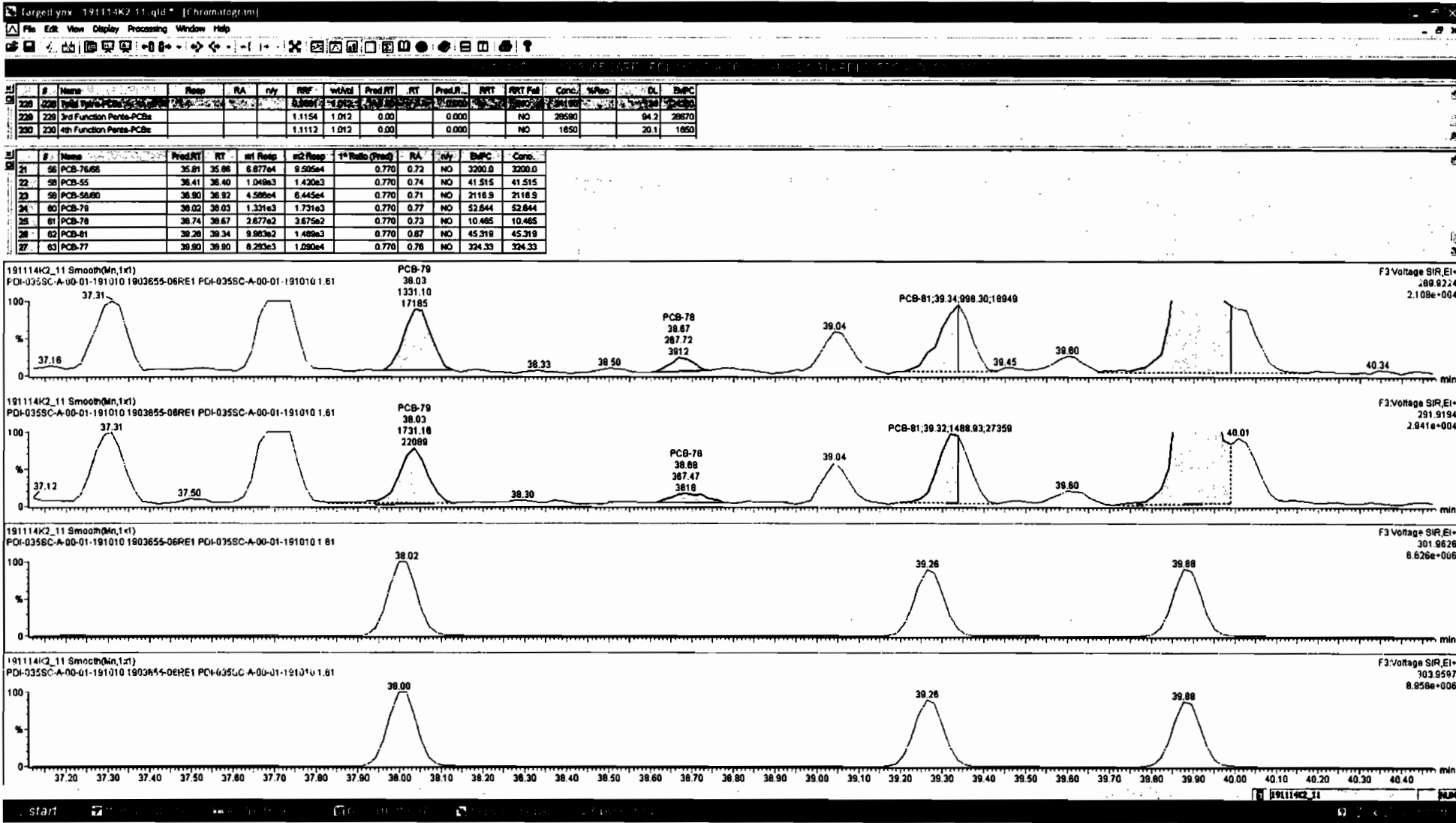
13C-PCB-60

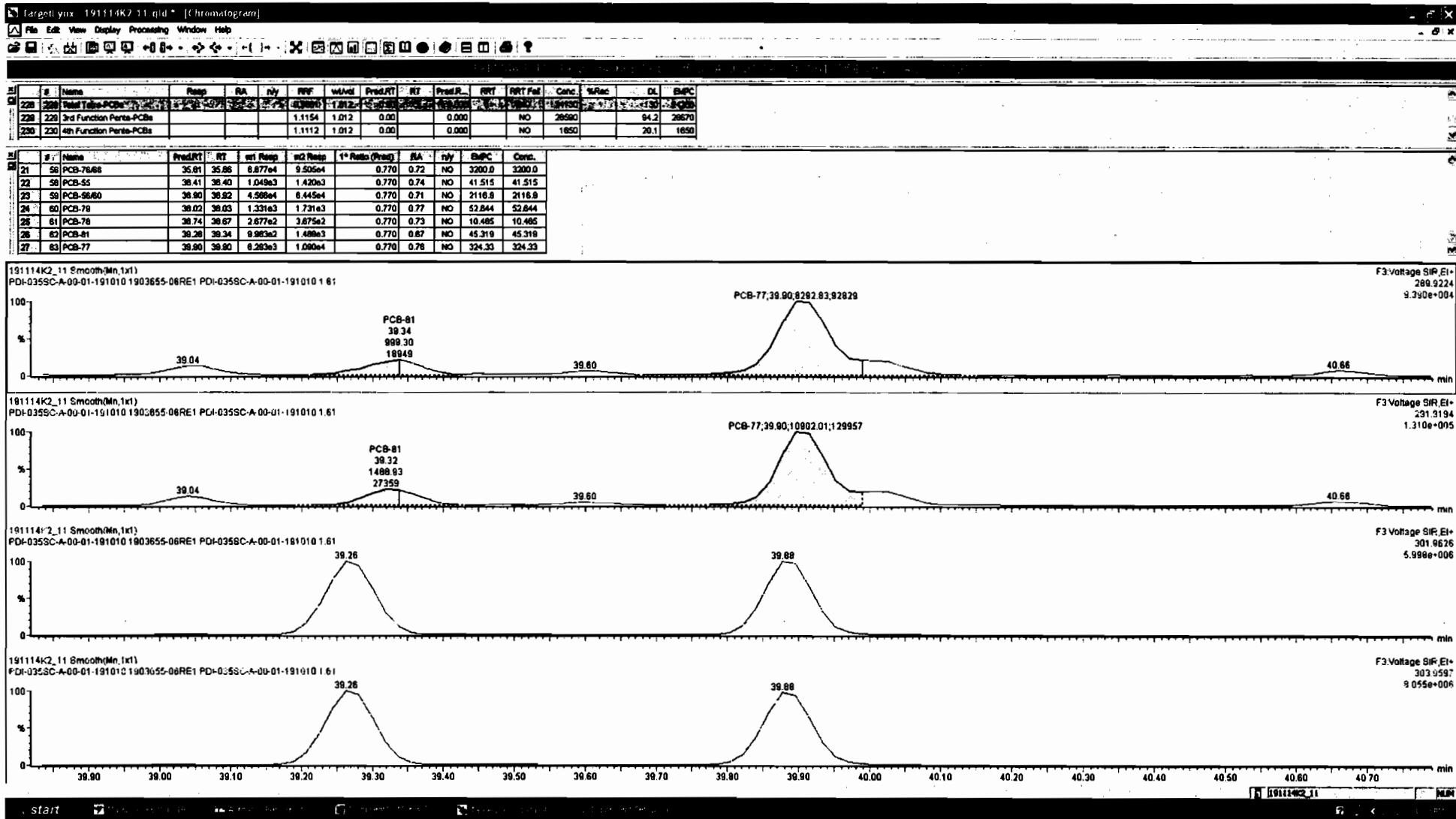












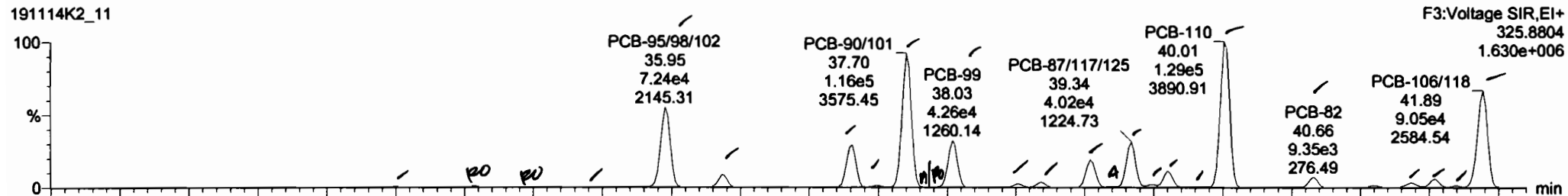
Dataset: Untitled

Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

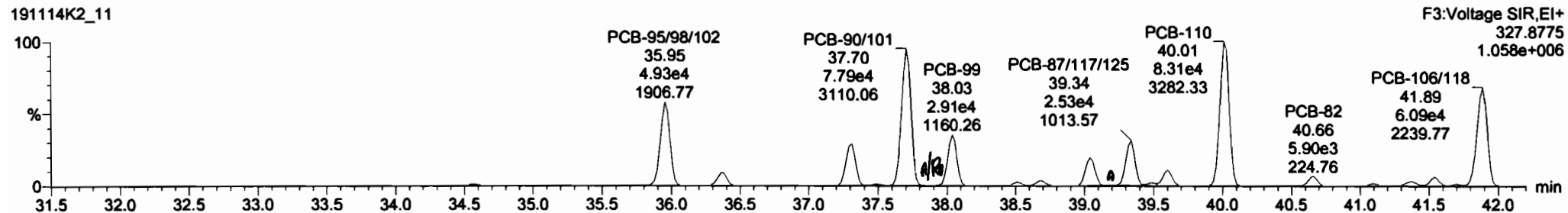
Name: 191114K2\_11, Date: 15-Nov-2019, Time: 02:20:59, ID: 1903655-06RE1 PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

PCB-104

191114K2\_11

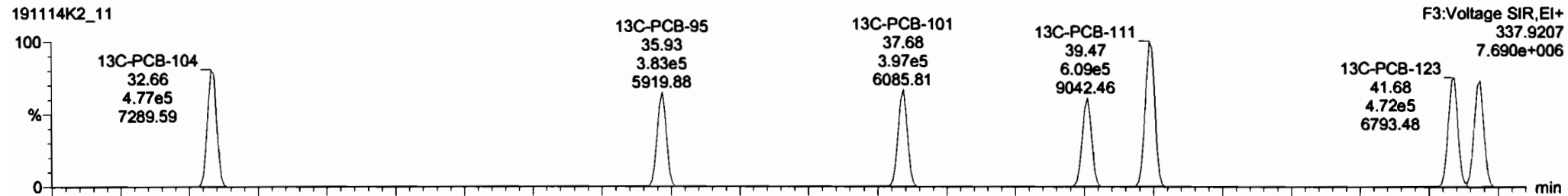


191114K2\_11

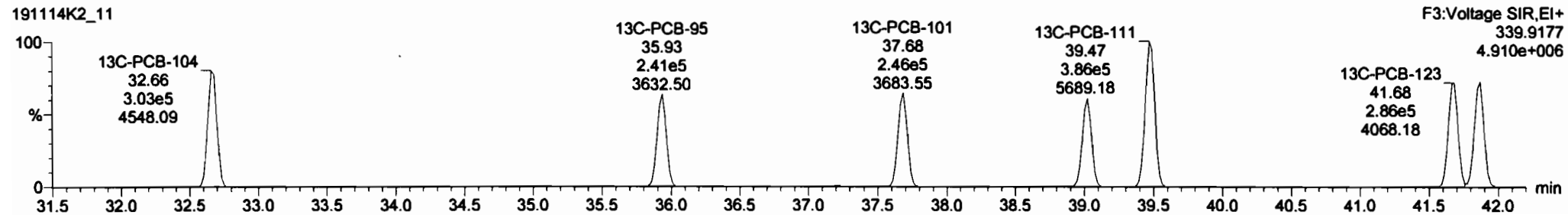


13C-PCB-104

191114K2\_11



191114K2\_11



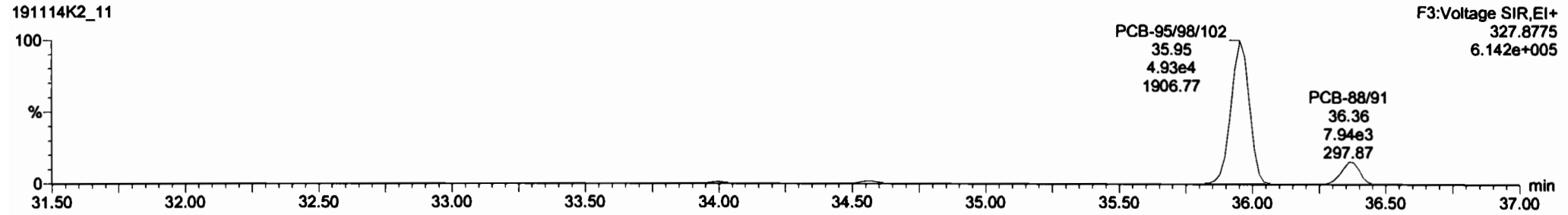
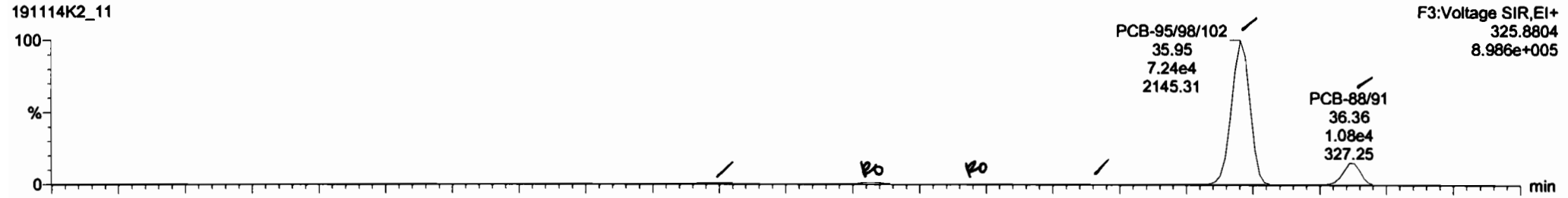


Dataset: Untitled

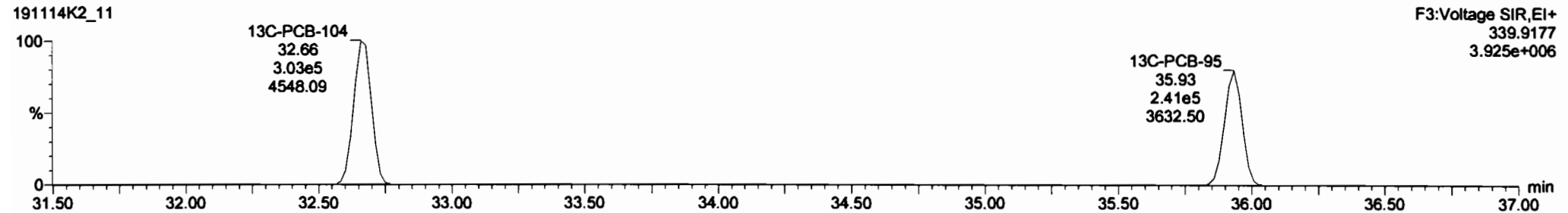
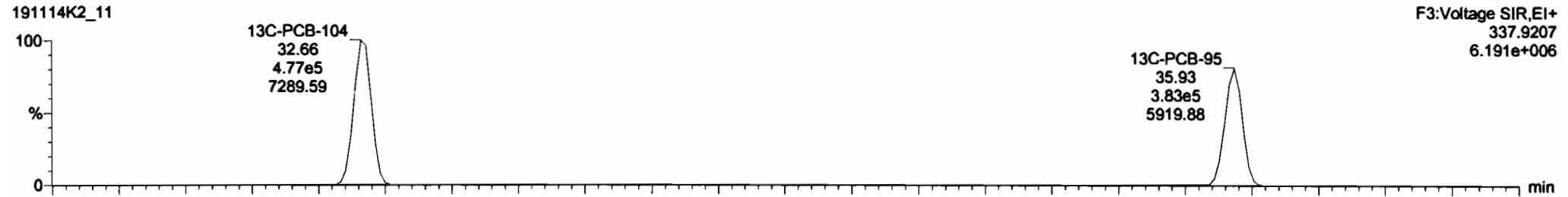
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Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

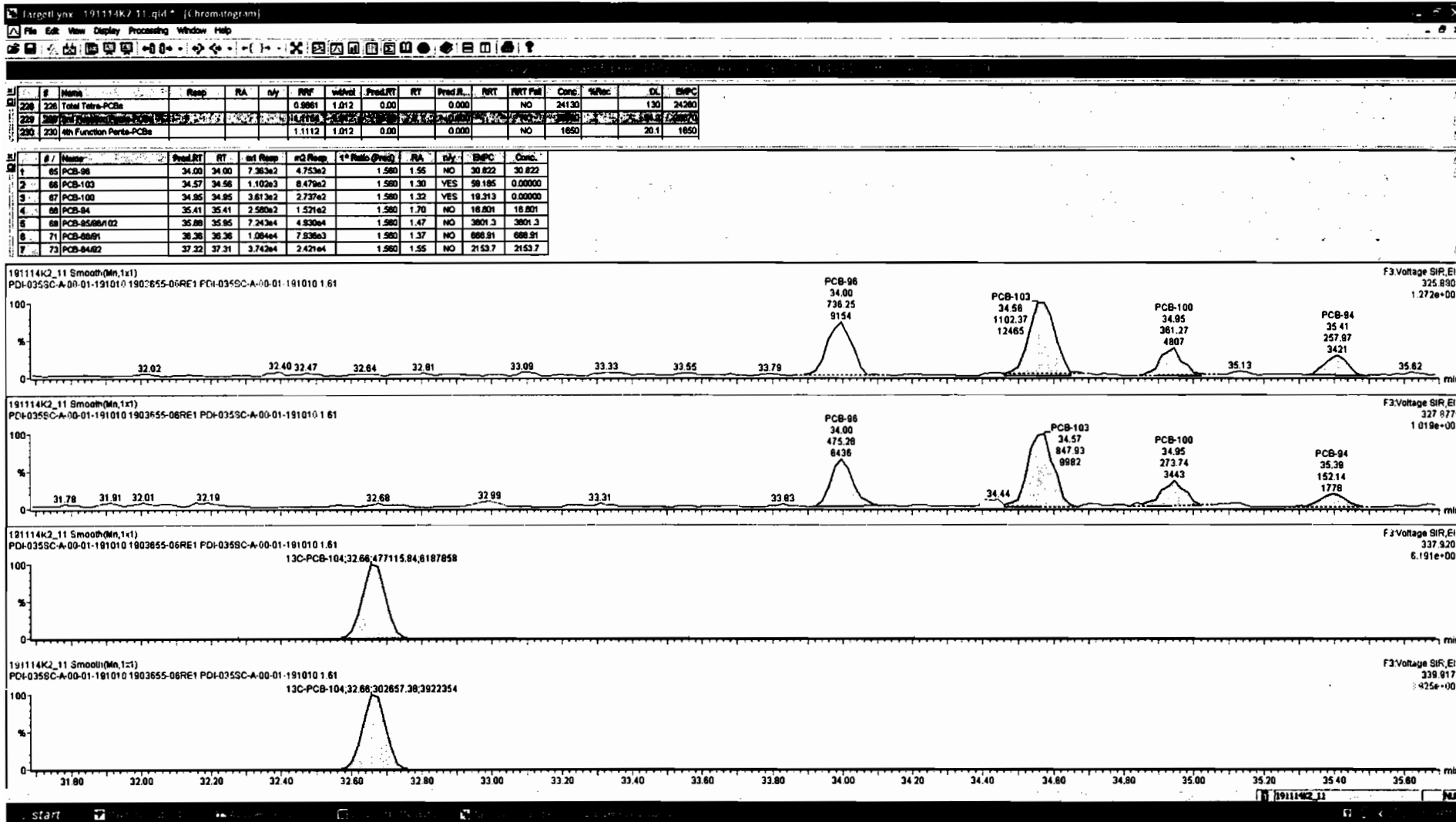
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PCB-96



13C-PCB-95





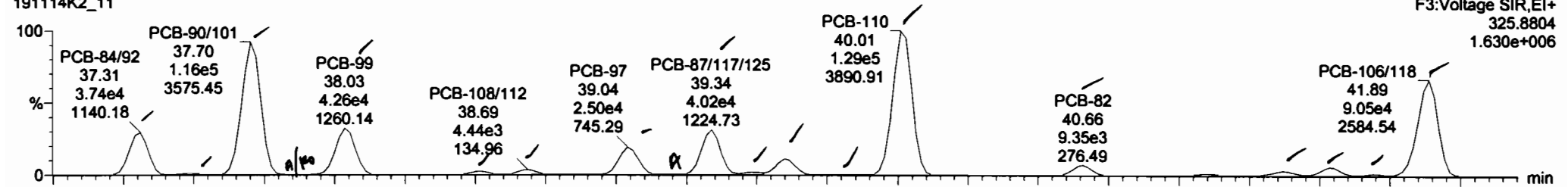
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Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

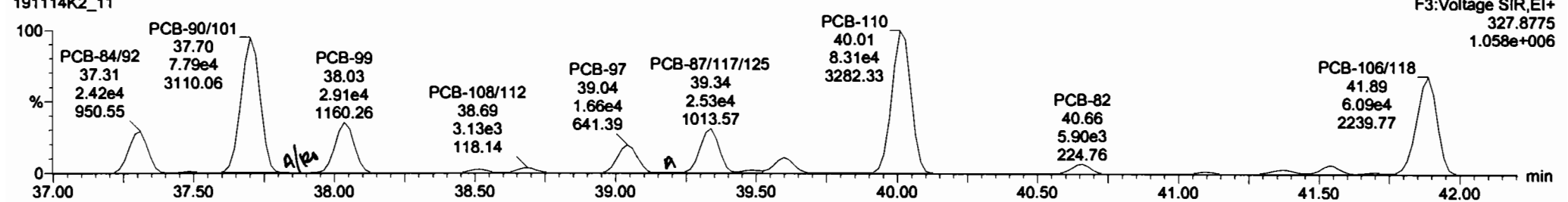
Name: 191114K2\_11, Date: 15-Nov-2019, Time: 02:20:59, ID: 1903655-06RE1 PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

**PCB-119**

191114K2\_11

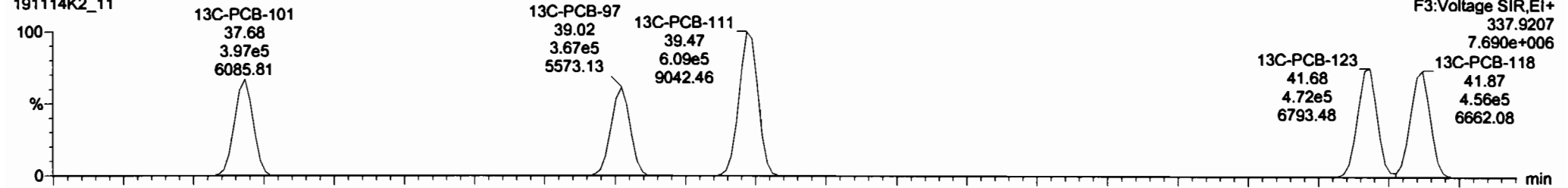


191114K2\_11

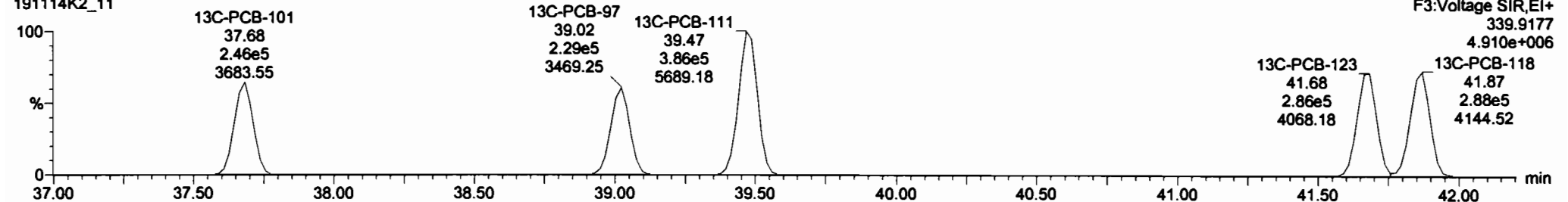


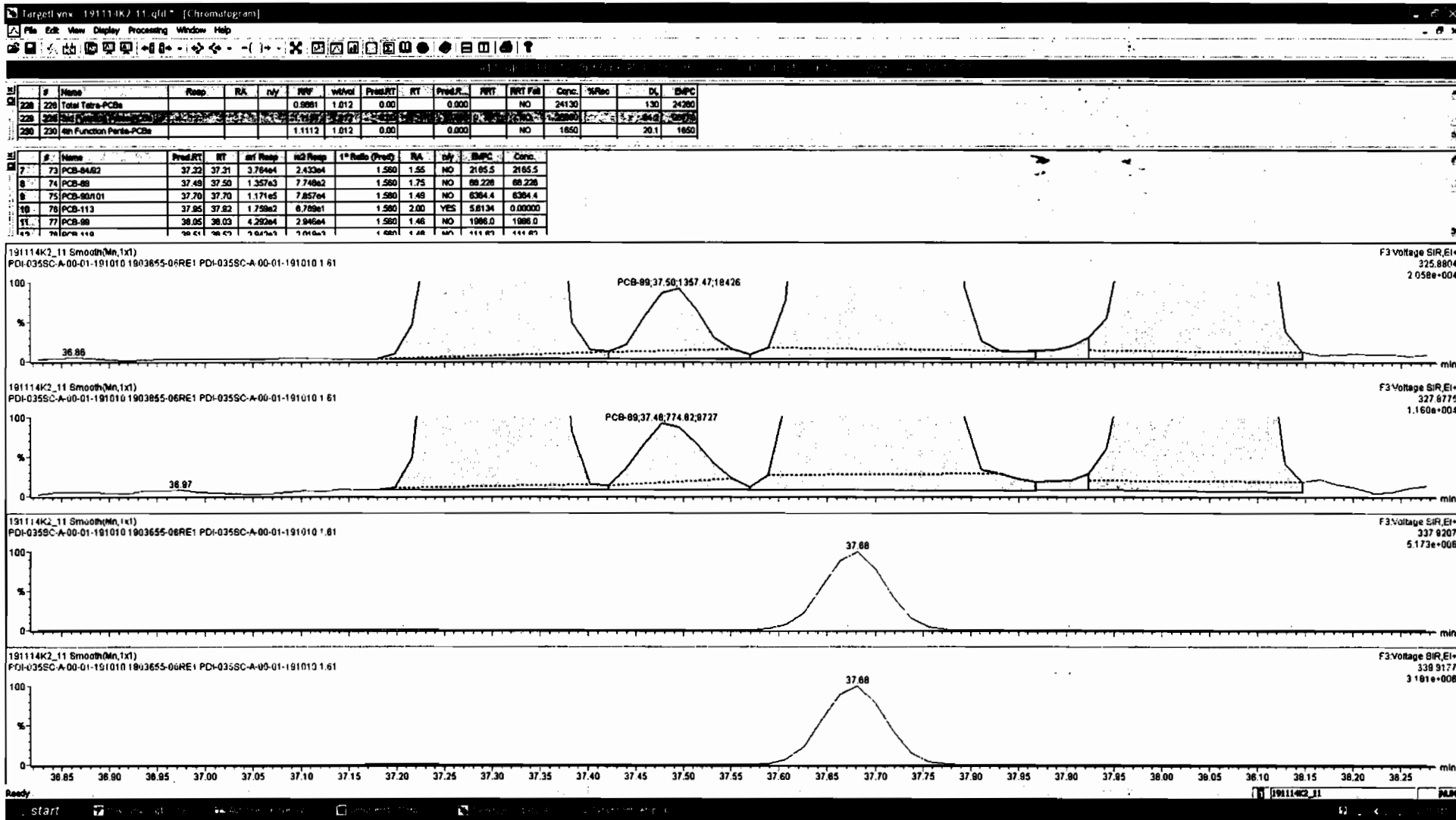
**13C-PCB-111**

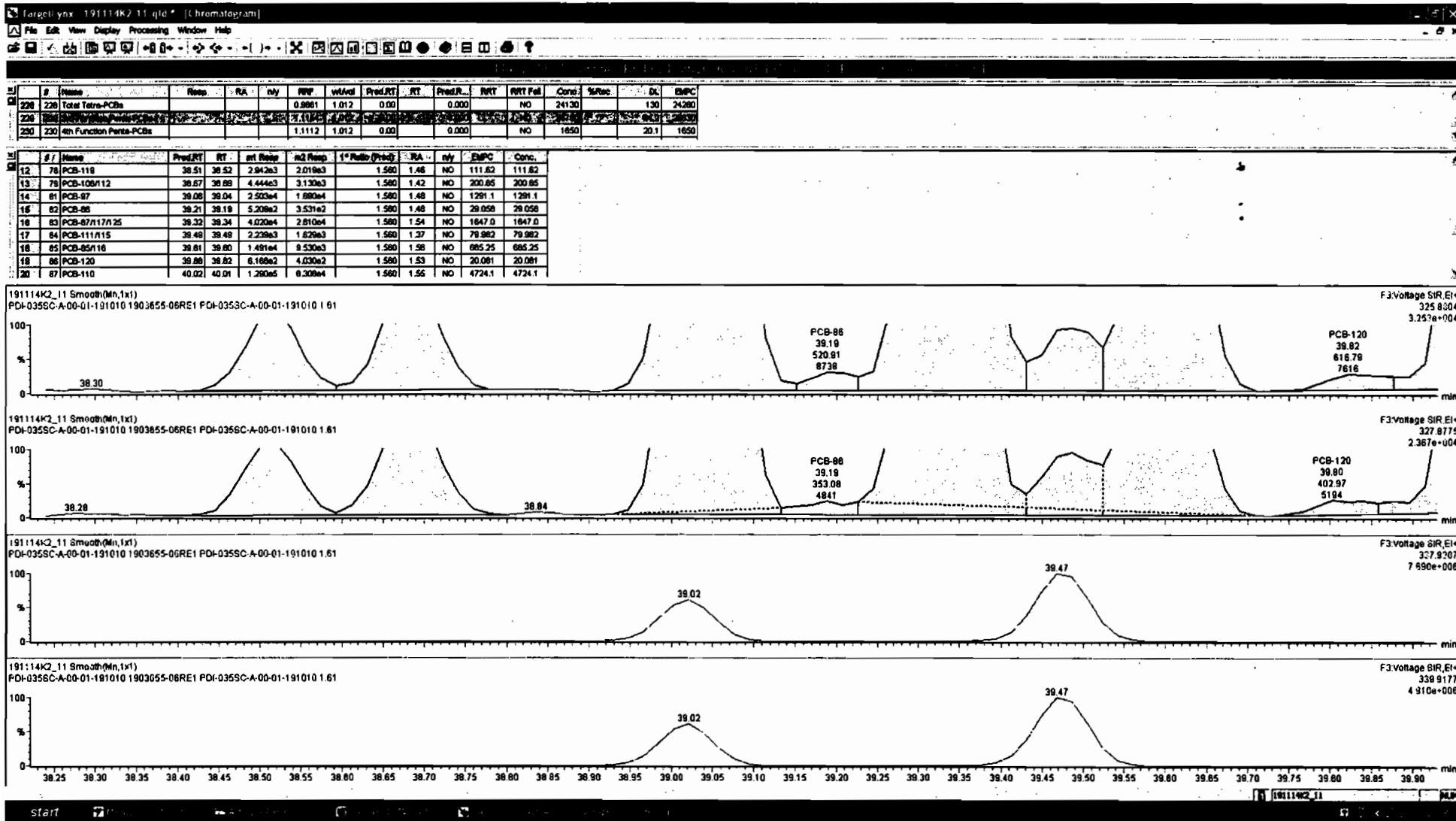
191114K2\_11

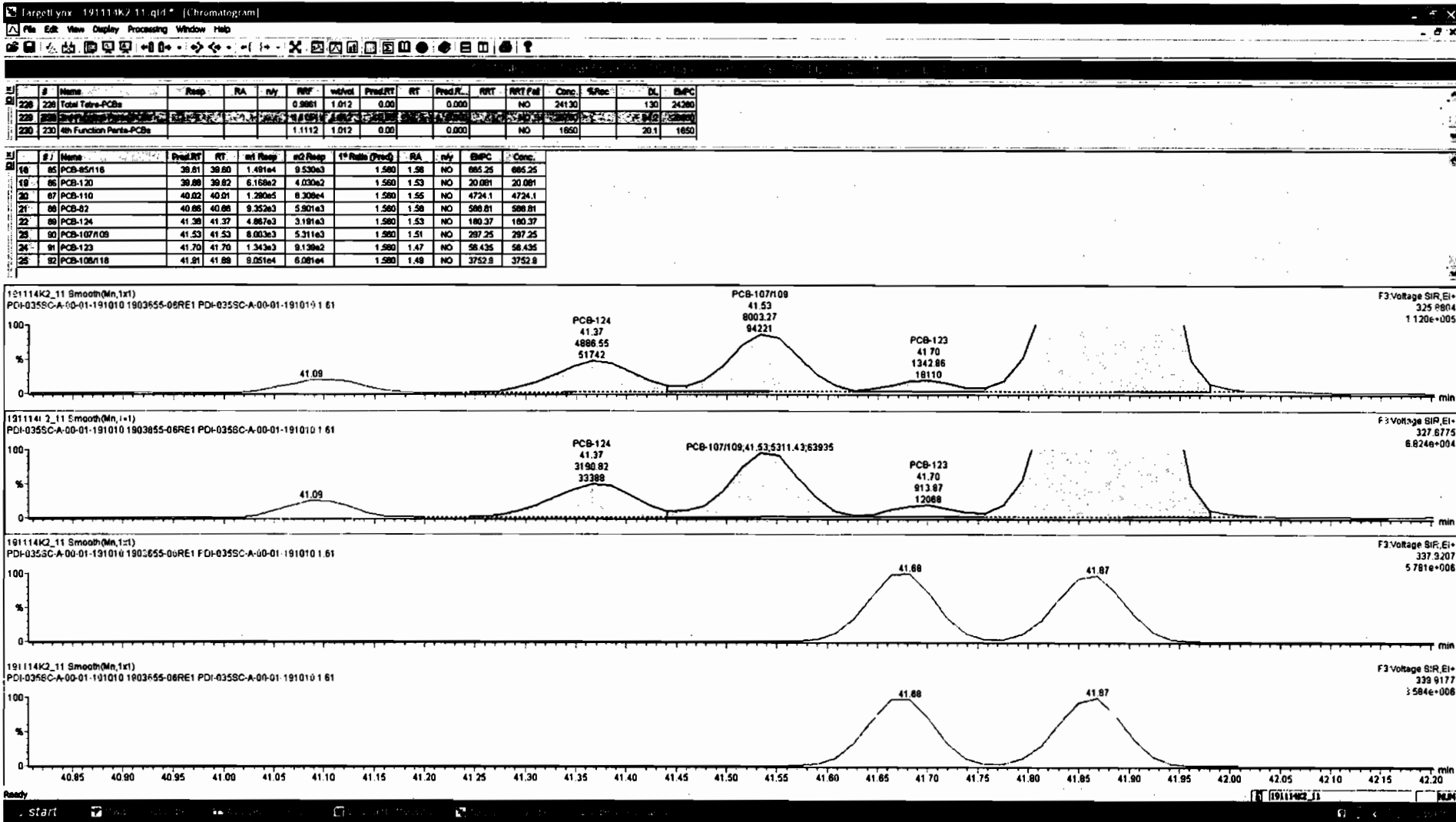


191114K2\_11









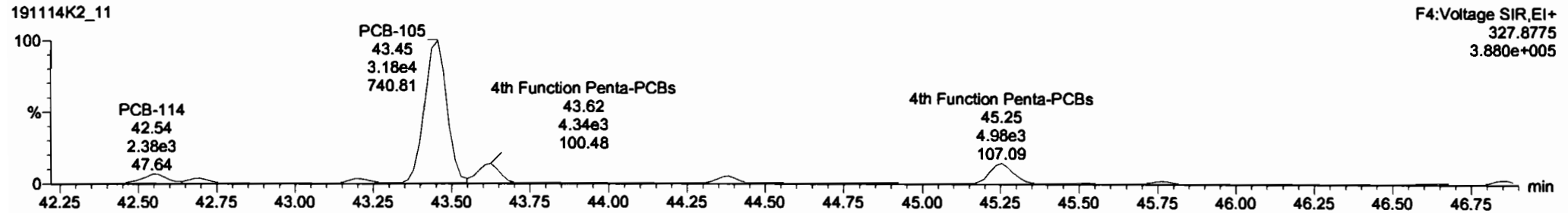
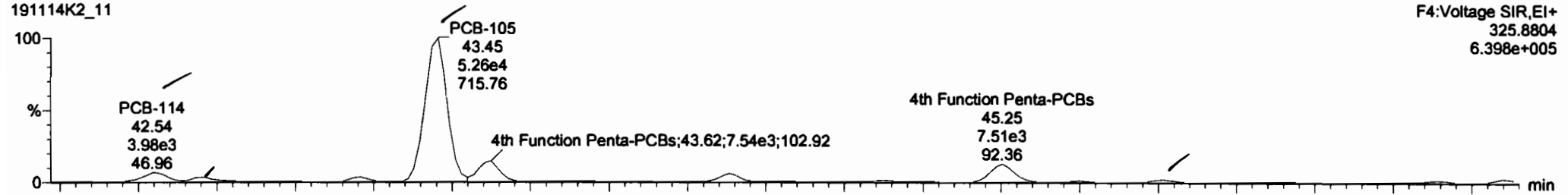
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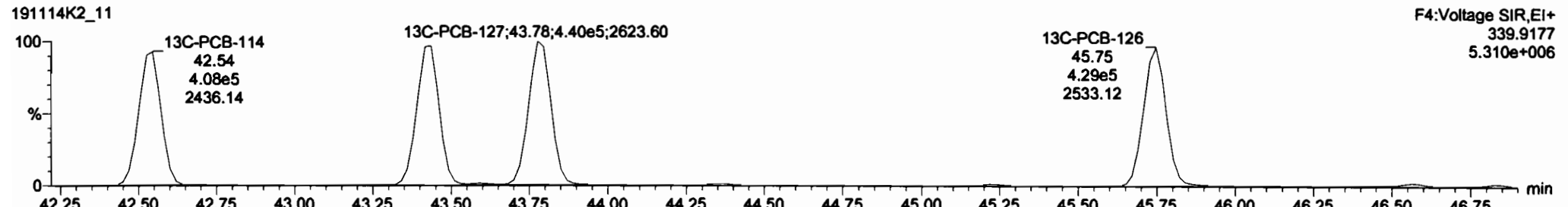
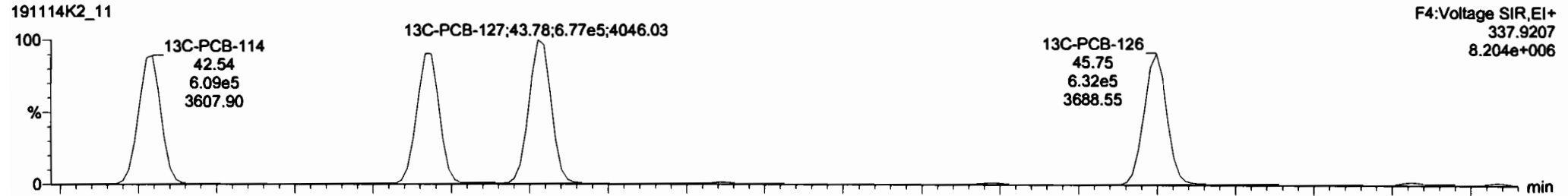
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

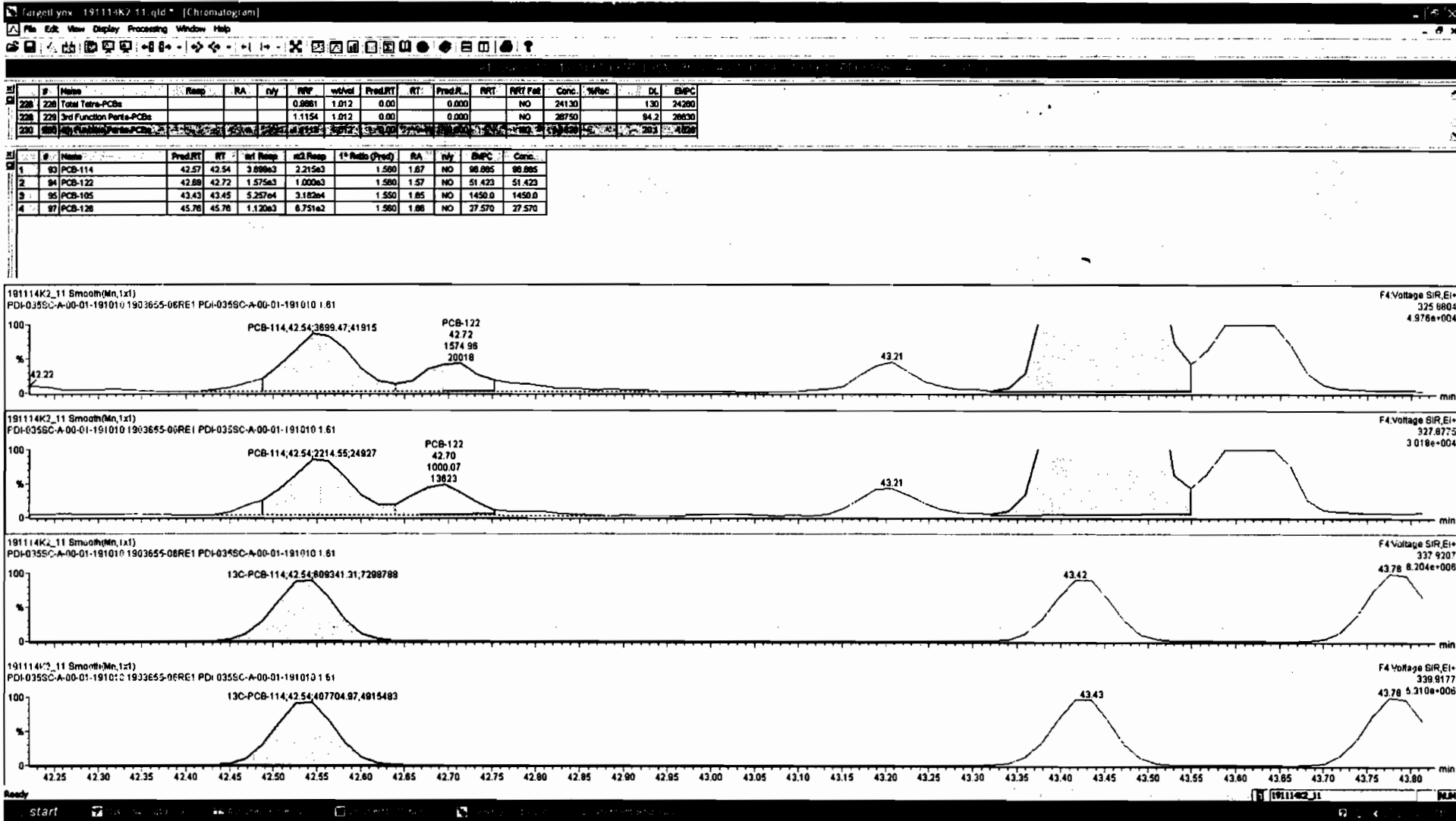
Name: 191114K2\_11, Date: 15-Nov-2019, Time: 02:20:59, ID: 1903655-06RE1 PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

**PCB-114**



**13C-PCB-114**







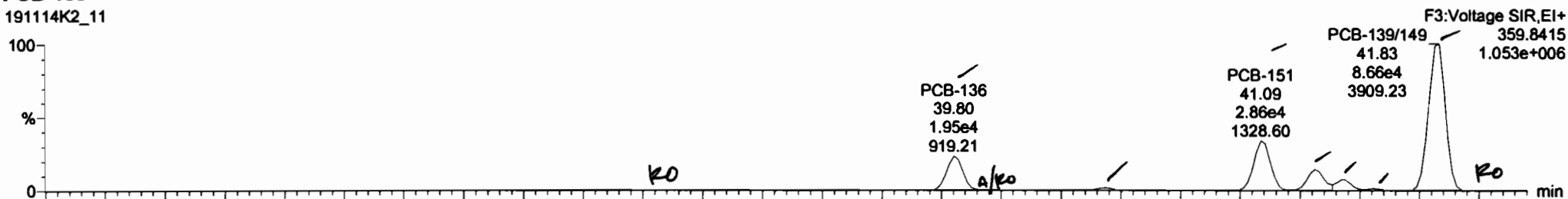
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Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

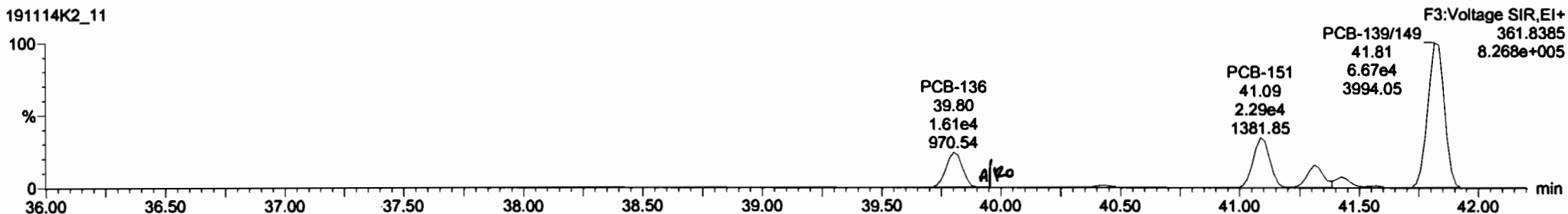
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PCB-155

191114K2\_11

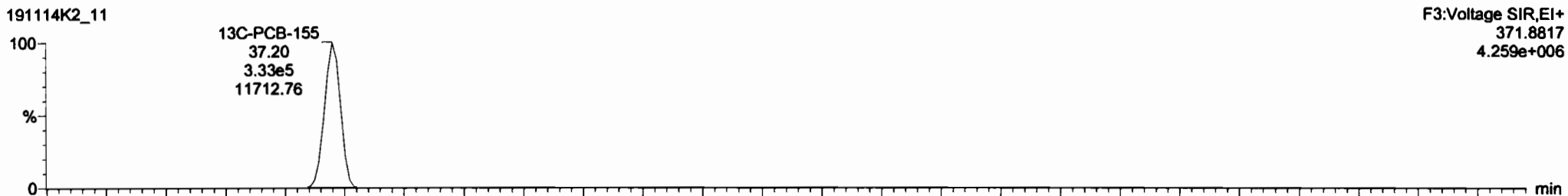


191114K2\_11

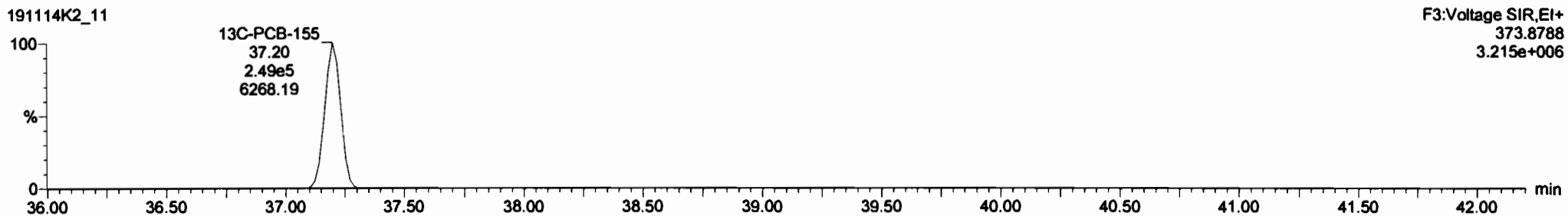


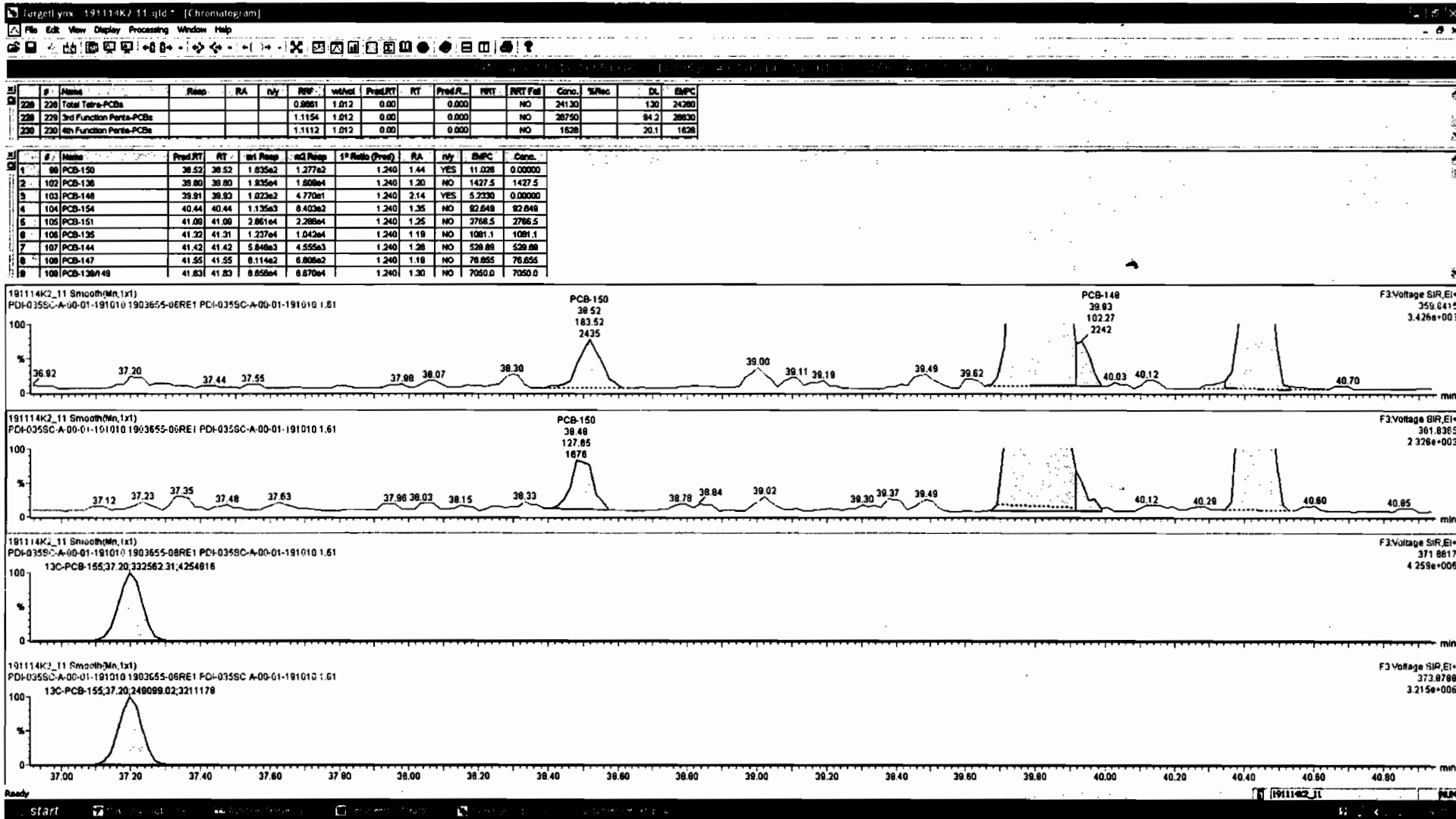
13C-PCB-155

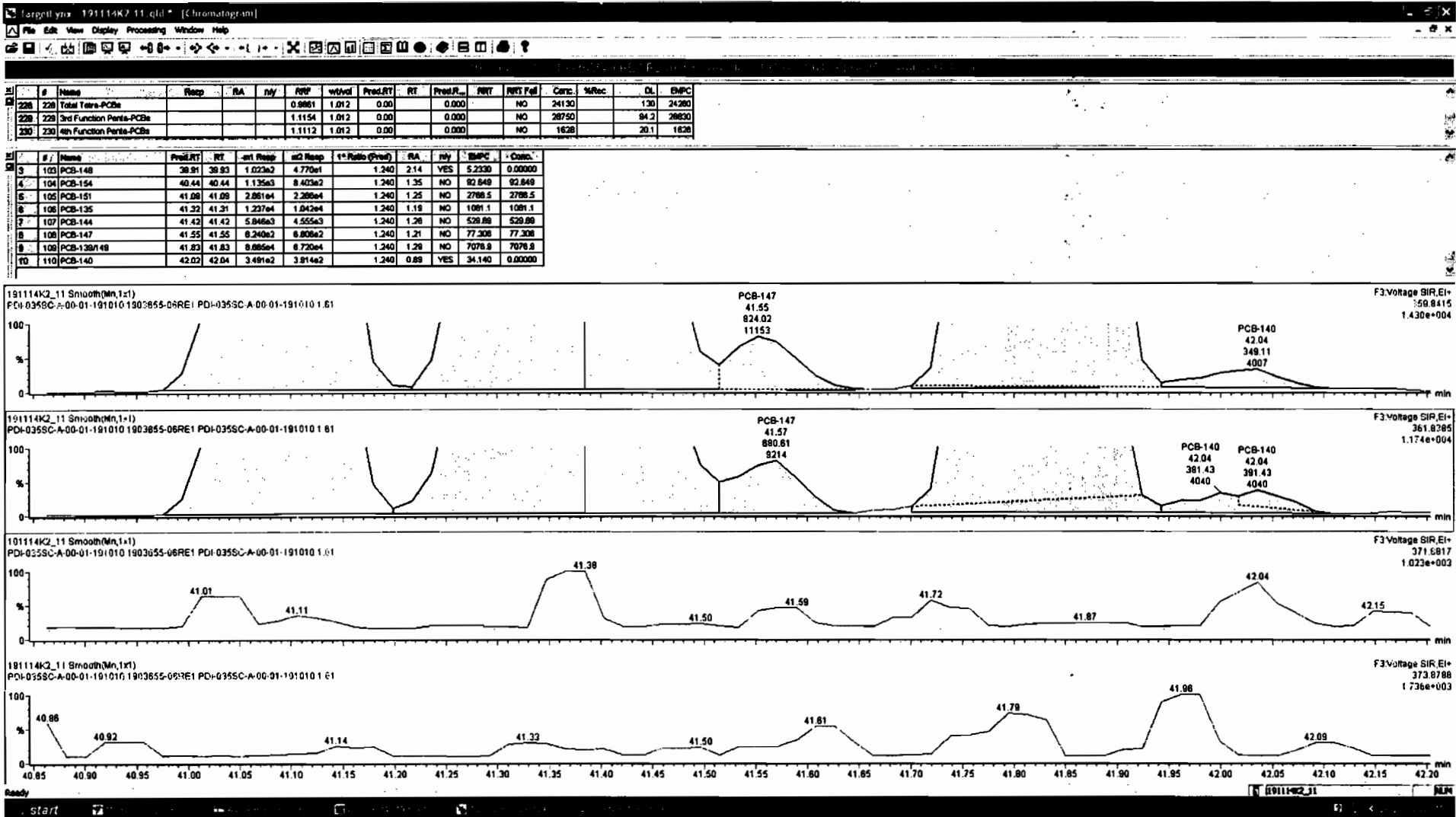
191114K2\_11



191114K2\_11







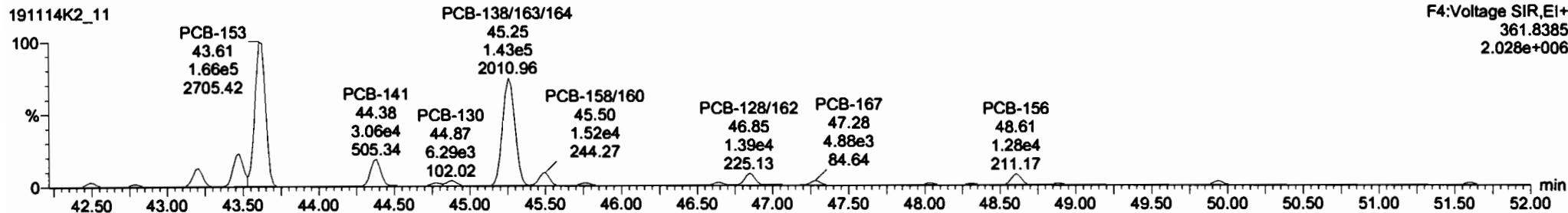
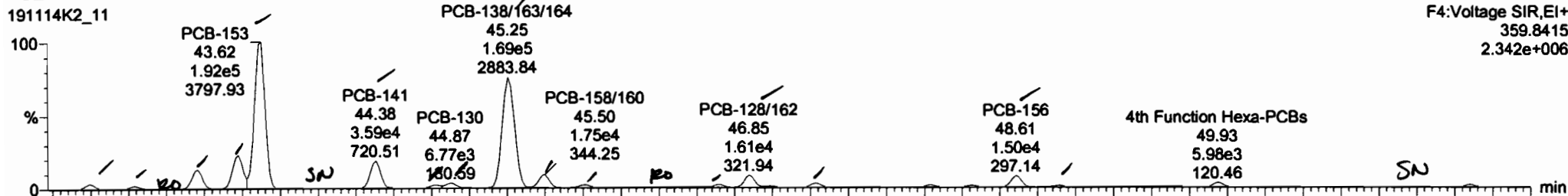
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Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time

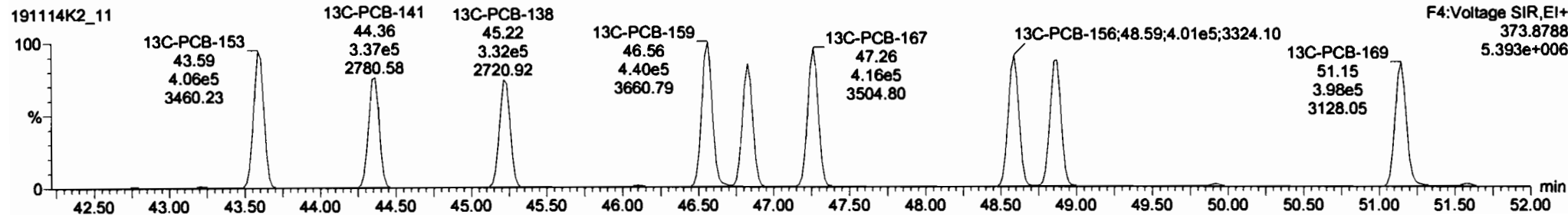
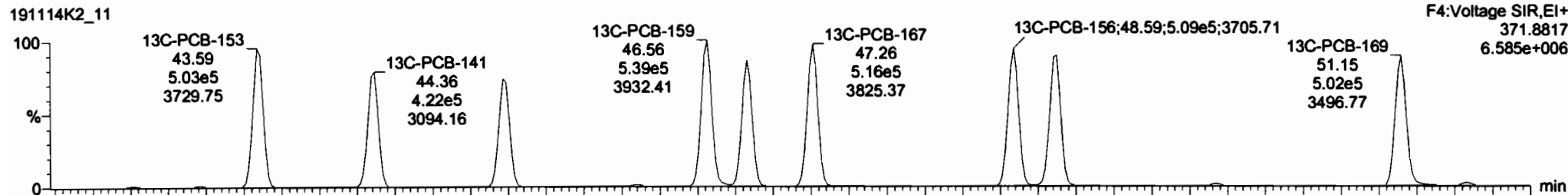
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

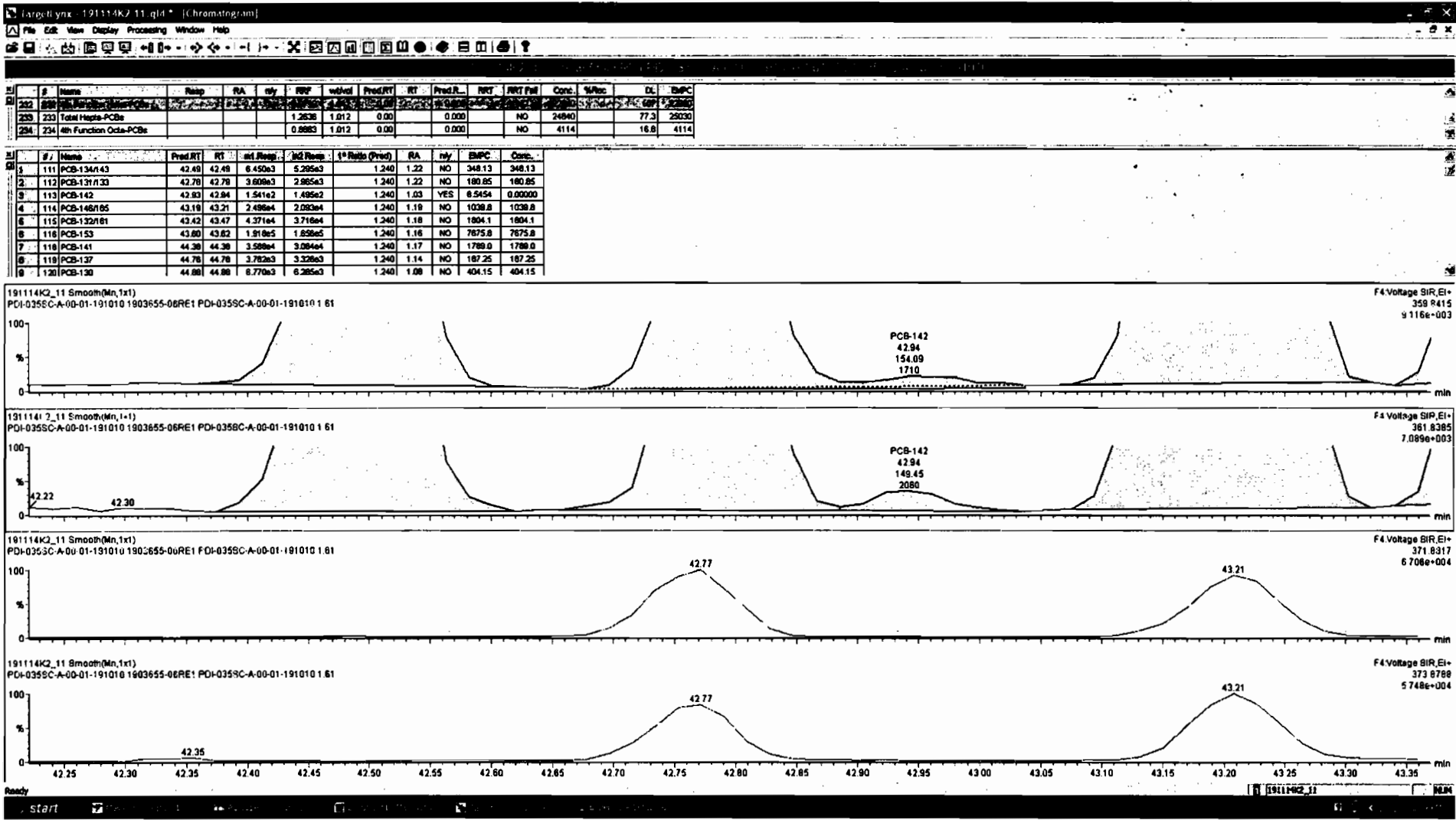
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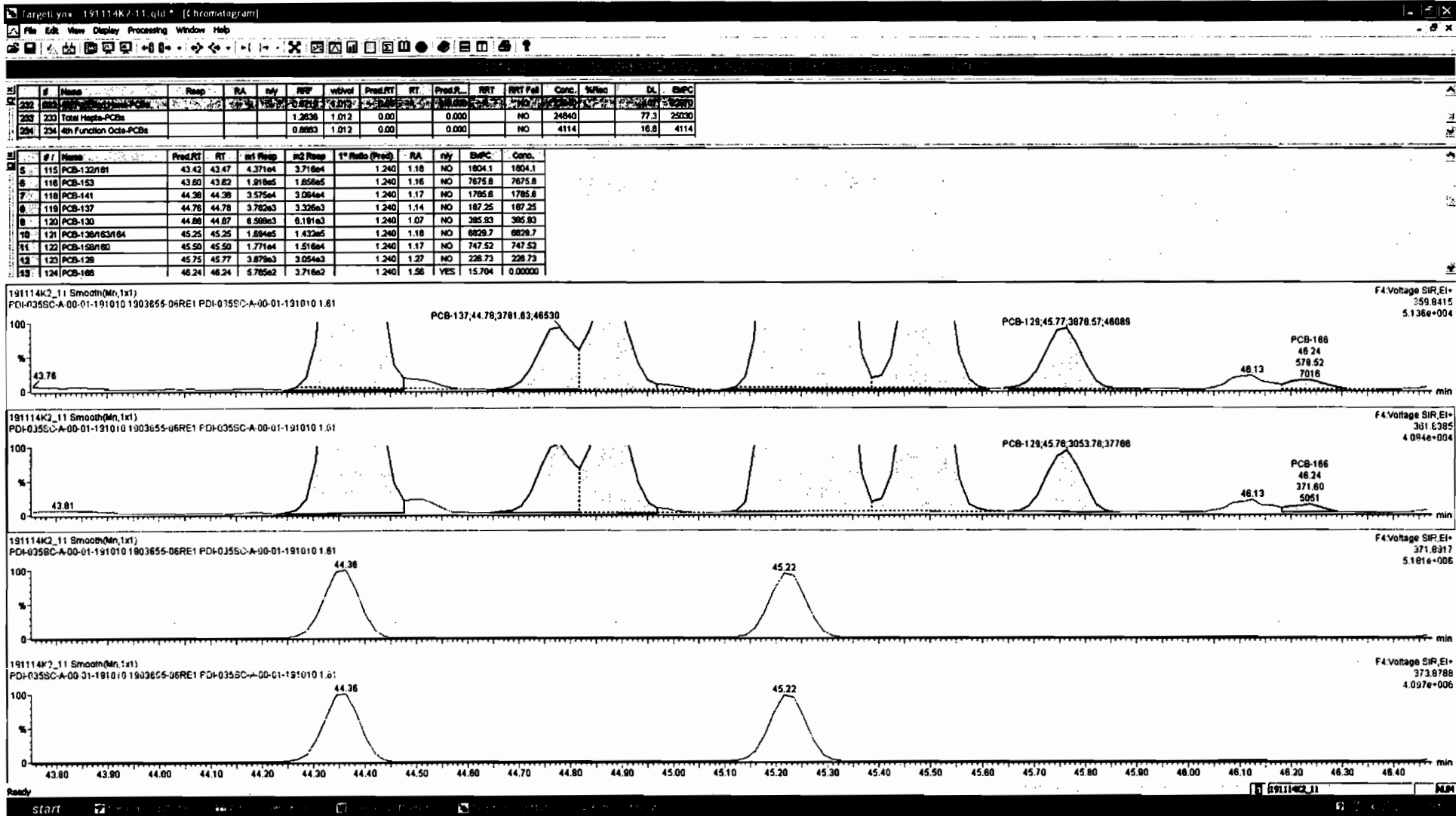
PCB-134/143

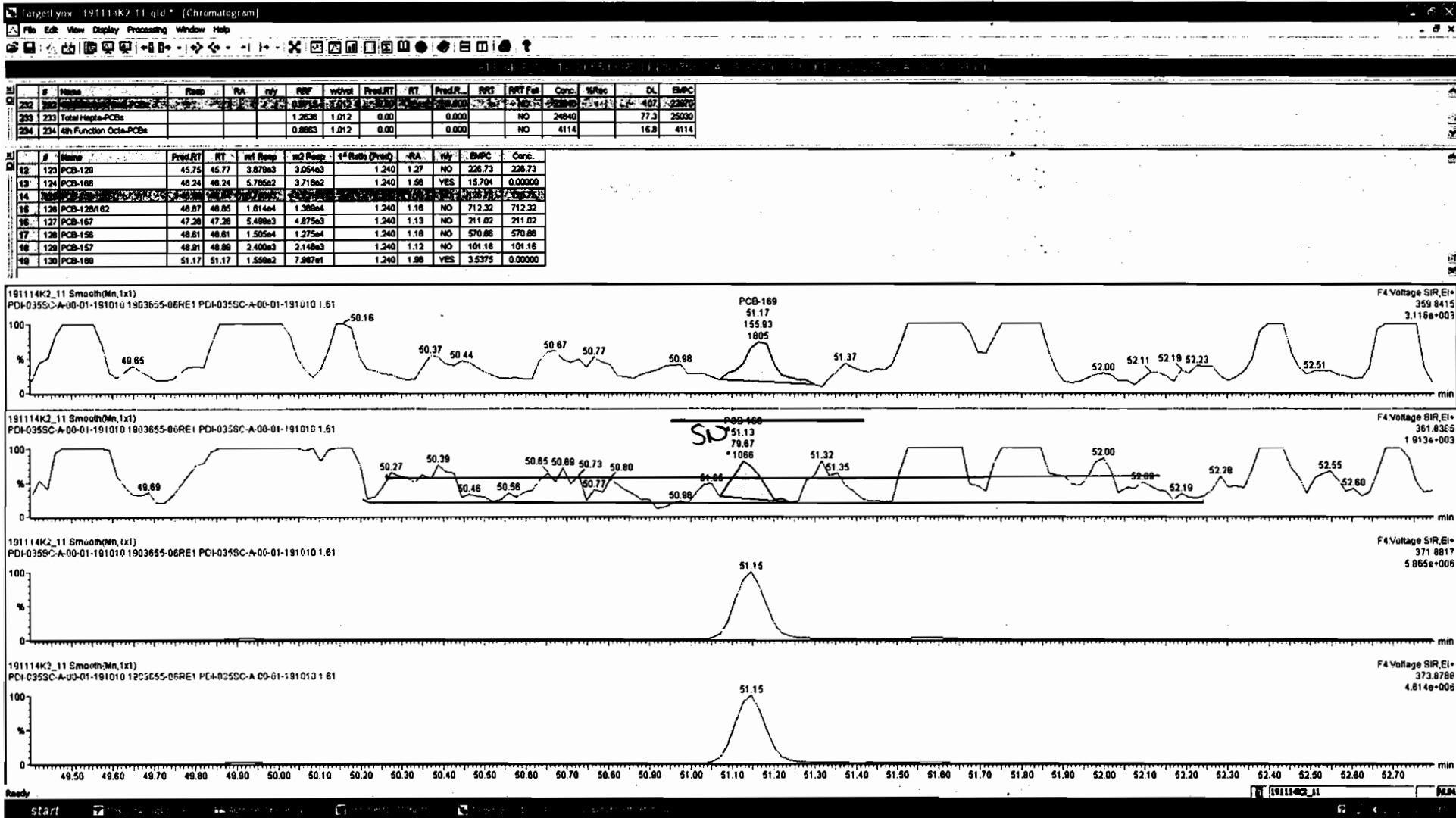


13C-PCB-153









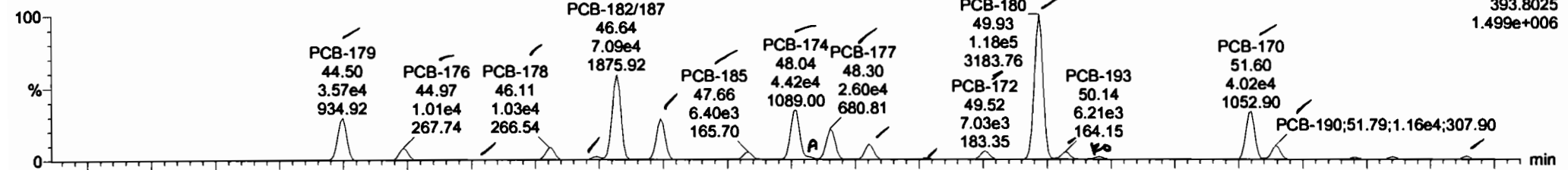
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Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

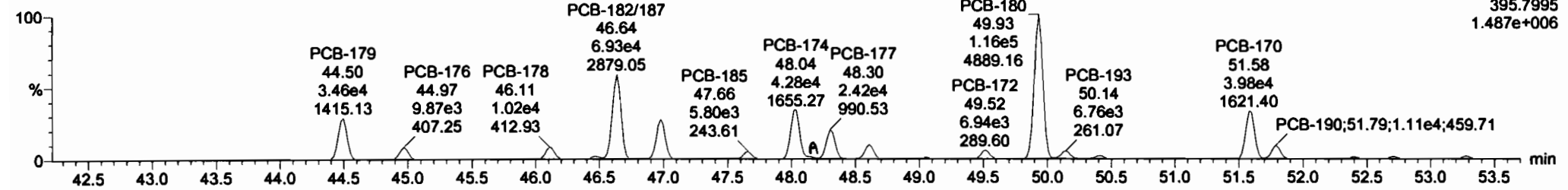
Name: 191114K2\_11, Date: 15-Nov-2019, Time: 02:20:59, ID: 1903655-06RE1 PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

PCB-188

191114K2\_11

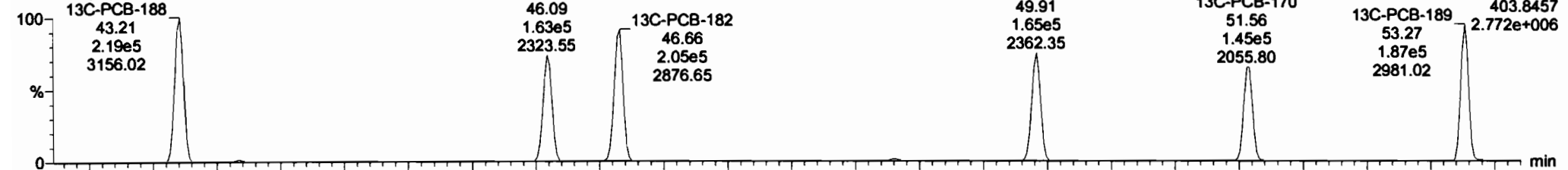


191114K2\_11

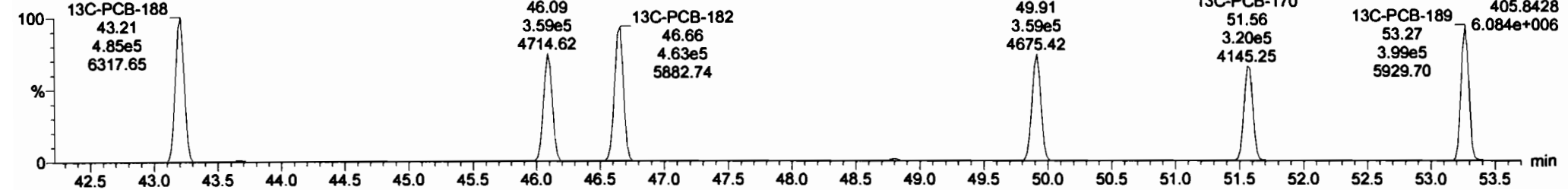


13C-PCB-188

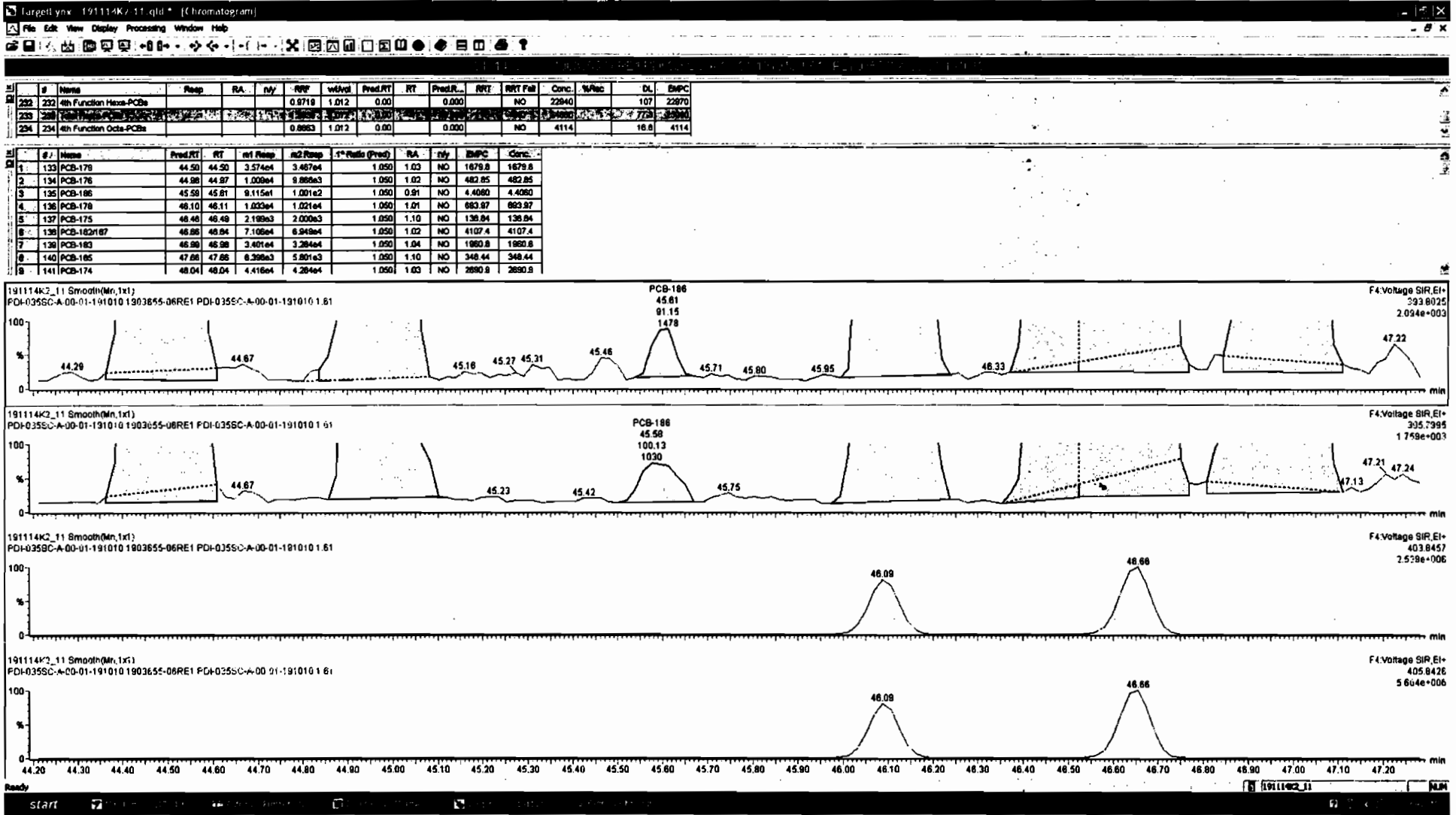
191114K2\_11

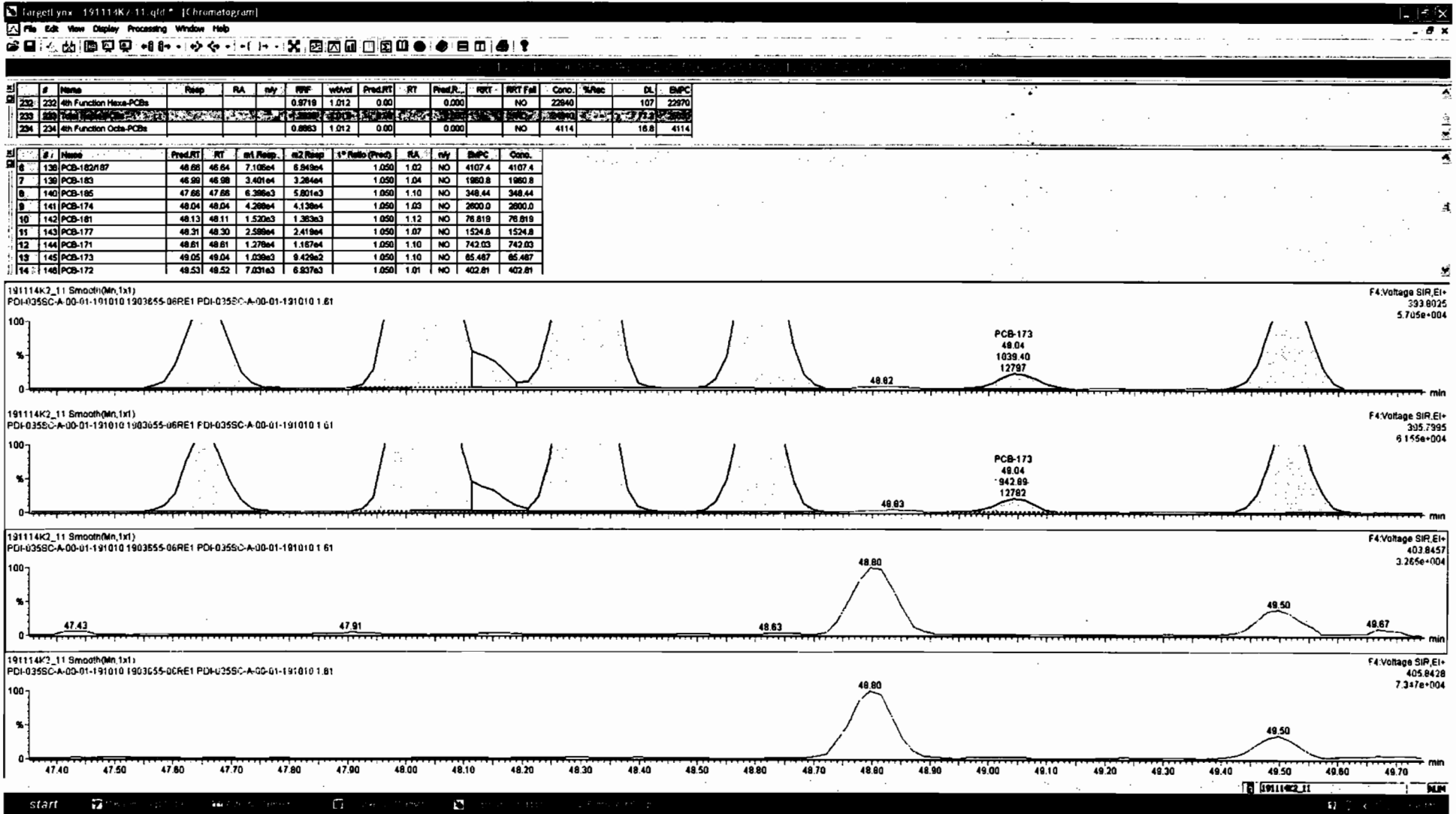


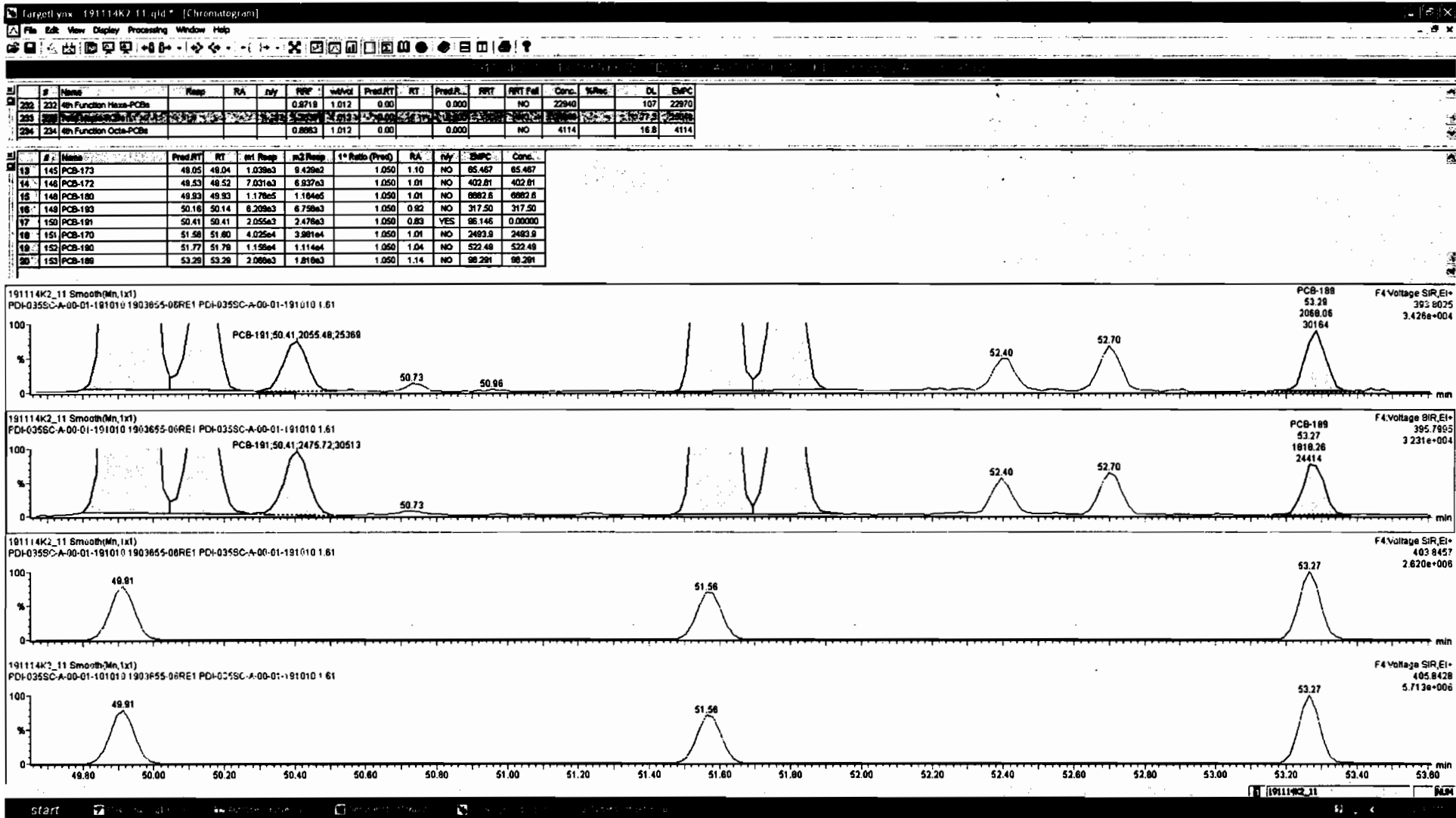
191114K2\_11









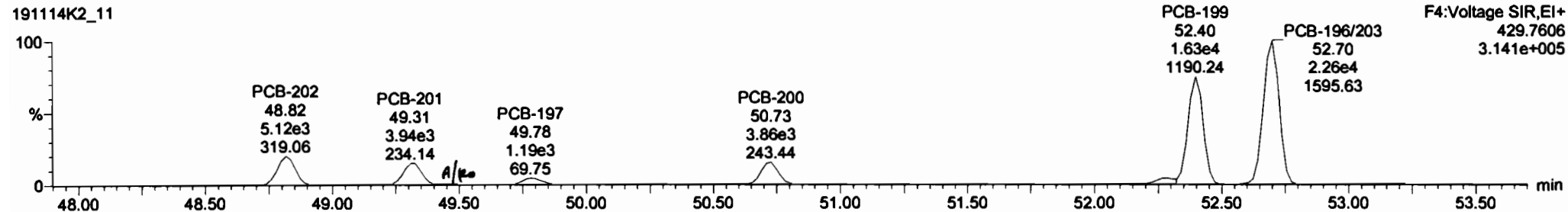
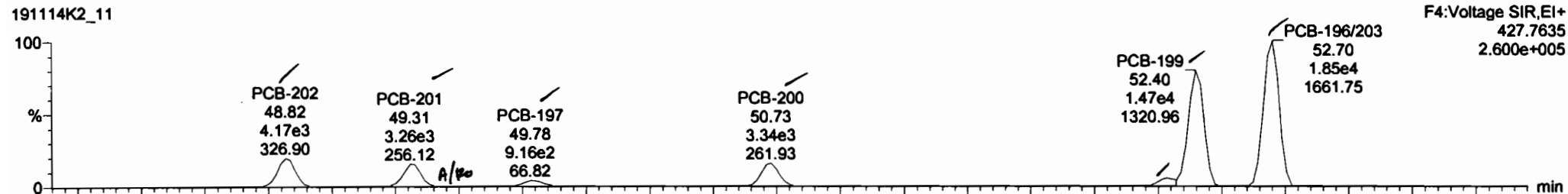


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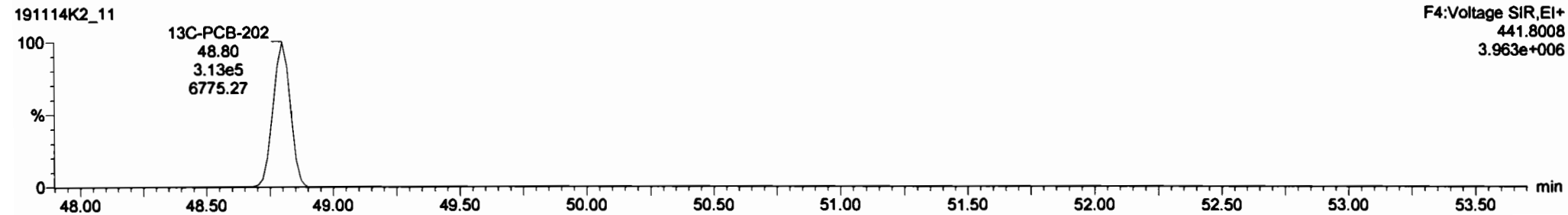
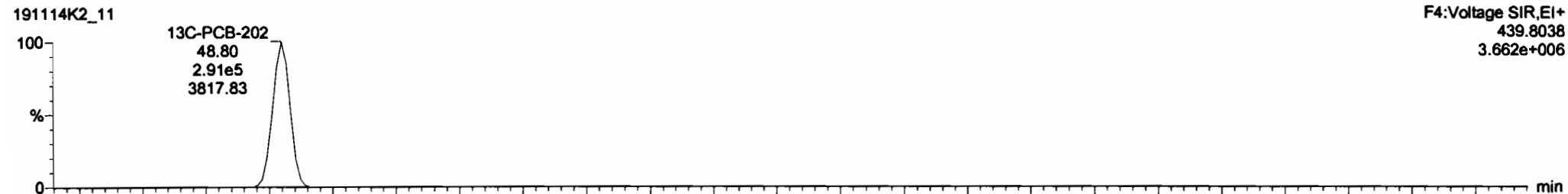
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Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

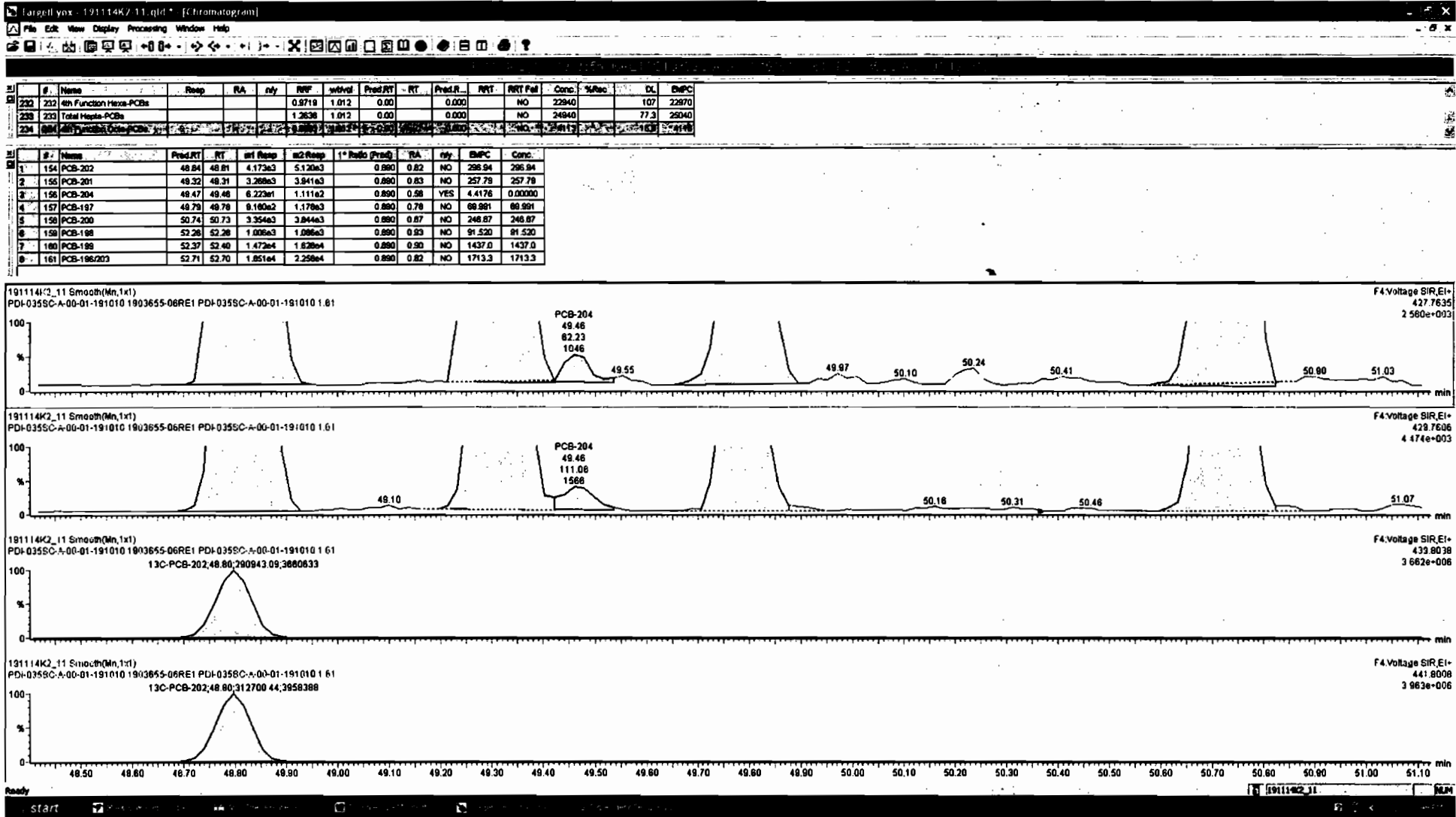
Name: 191114K2\_11, Date: 15-Nov-2019, Time: 02:20:59, ID: 1903655-06RE1 PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

PCB-202



13C-PCB-202

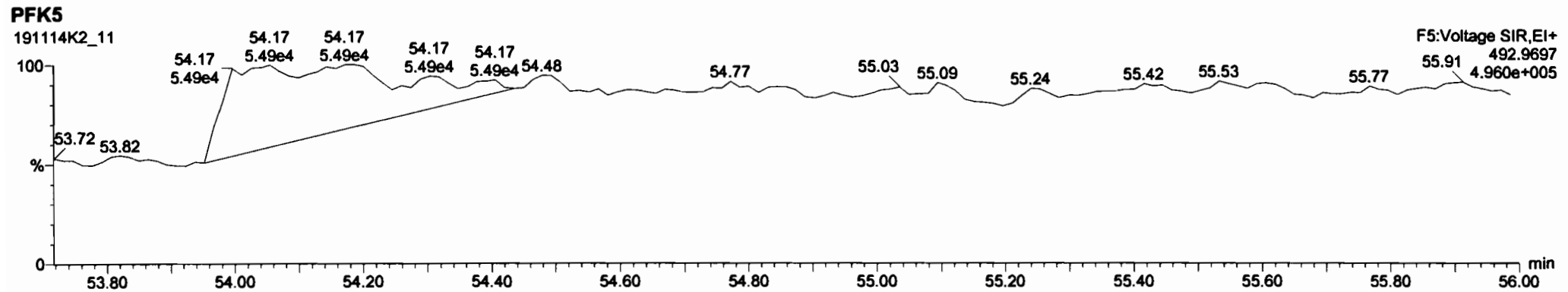
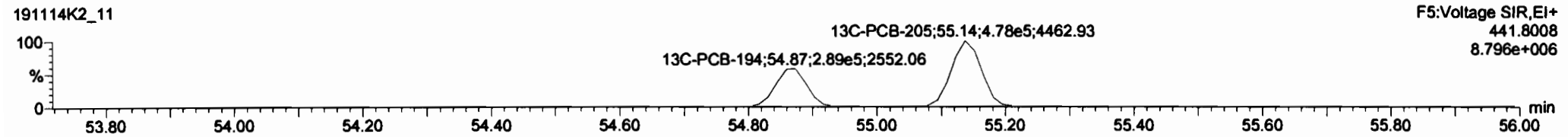
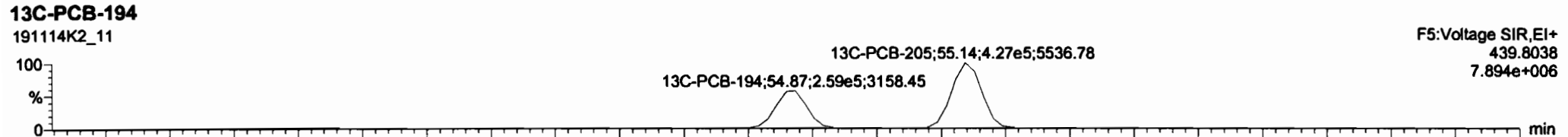
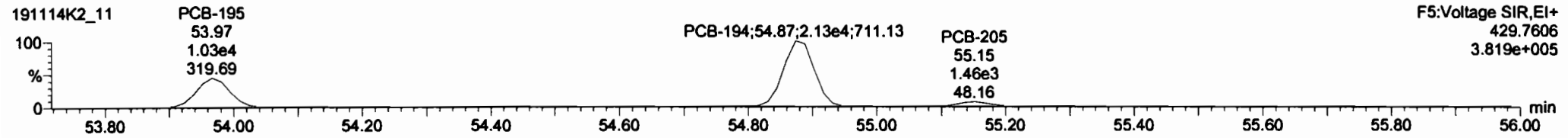
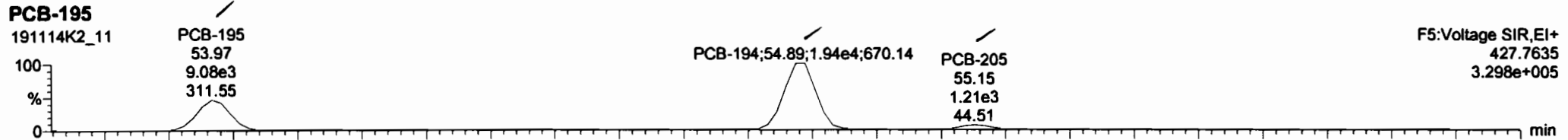




Dataset: Untitled

Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_11, Date: 15-Nov-2019, Time: 02:20:59, ID: 1903655-06RE1 PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010



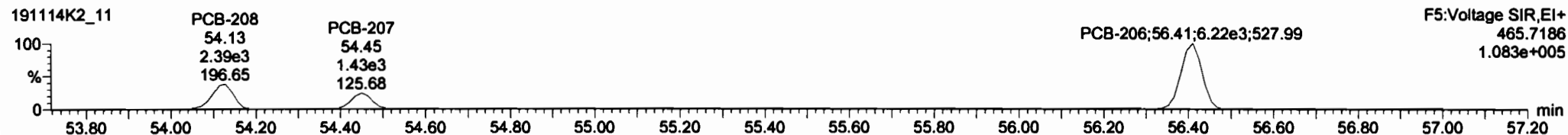
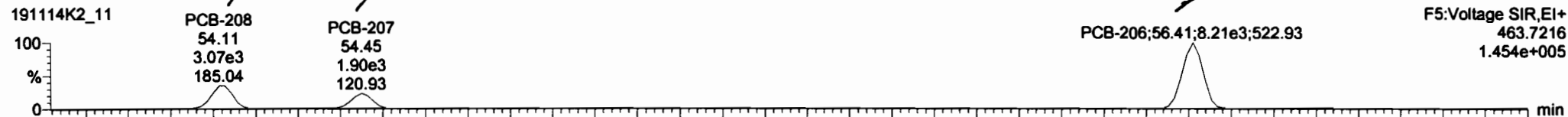
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Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time

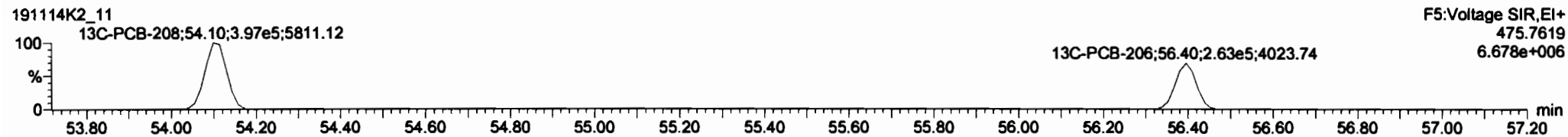
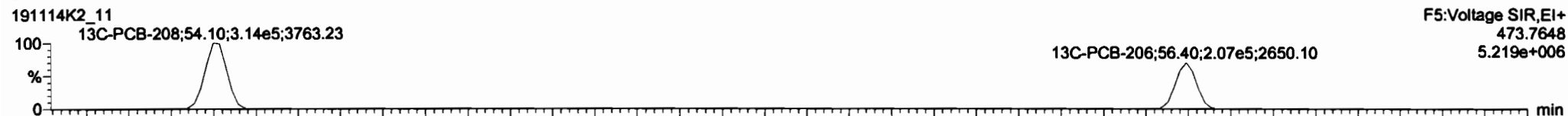
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_11, Date: 15-Nov-2019, Time: 02:20:59, ID: 1903655-06RE1 PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

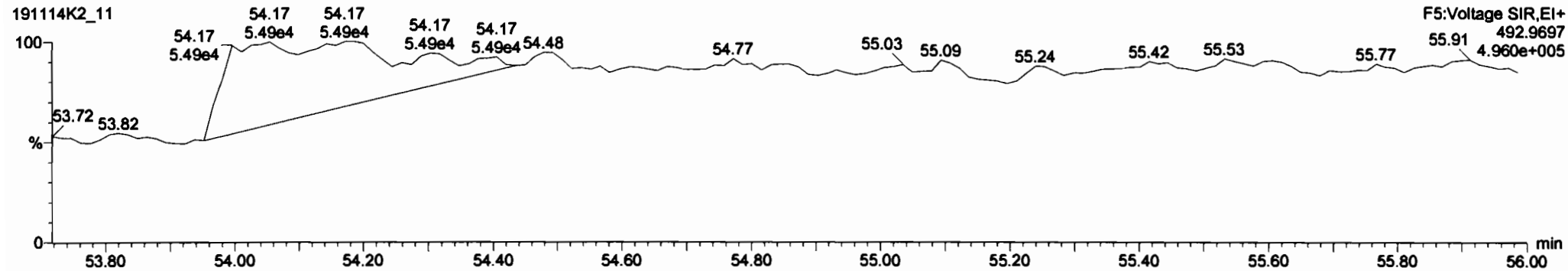
**PCB-208**



**13C-PCB-208**



**PFK5**



Dataset: Untitled

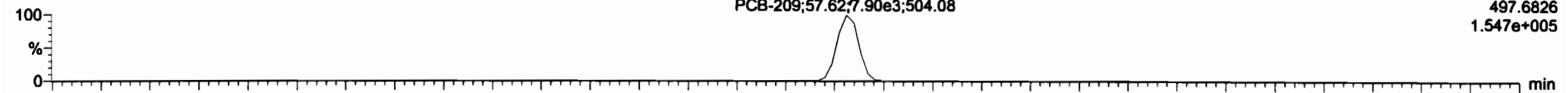
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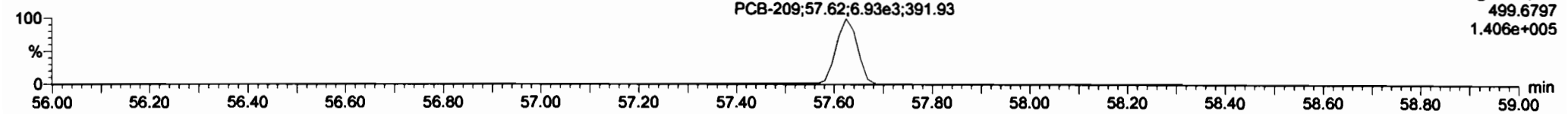
Name: 191114K2\_11, Date: 15-Nov-2019, Time: 02:20:59, ID: 1903655-06RE1 PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

**PCB-209**

191114K2\_11

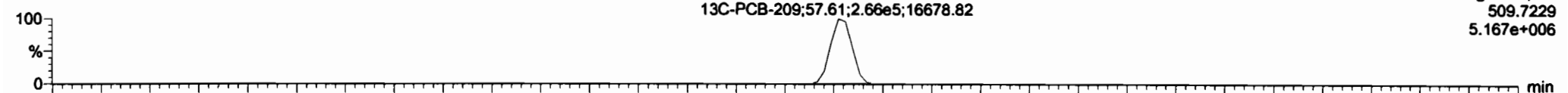


191114K2\_11

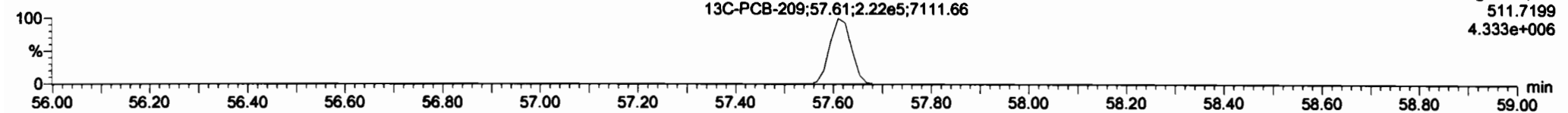


**13C-PCB-209**

191114K2\_11

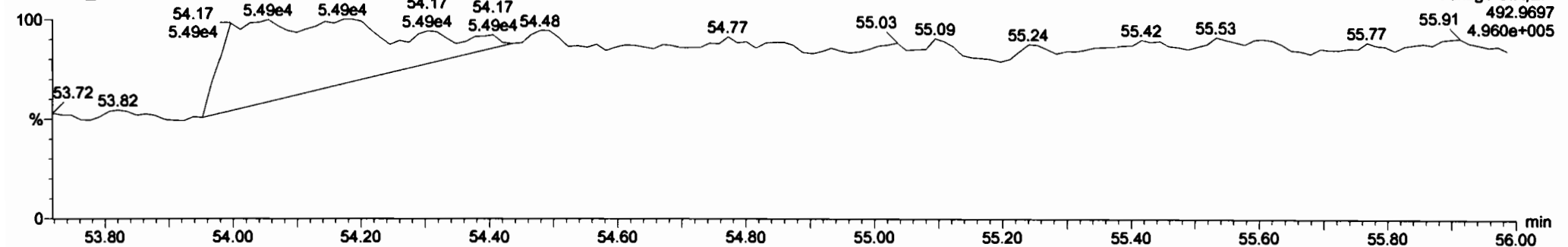


191114K2\_11



**PFK5**

191114K2\_11





Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

Last Altered: Monday, November 18, 2019 11:37:11 Pacific Standard Time

Printed: Monday, November 18, 2019 11:38:25 Pacific Standard Time

GRB 11/18/19

C7 01/07/2020

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-14-19.mdb 14 Nov 2019 15:03:40

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

#	Name	Resp	RA	nY	RRE	w/vol	Pred RT	RT	Pred R	RRT	Check RRT	Conc	%Rec	DI	EMPC
1	1 PCB-1	1.52e3	3.15	NO	1.02	1.012	15.68	15.69	1.001	1.001	NO	196.9		17.9	196.9
2	2 PCB-2	2.49e3	2.69	NO	1.01	1.012	18.12	18.12	0.988	0.988	NO	310.5		17.4	310.5
3	3 PCB-3	3.36e3	2.81	NO	1.01	1.012	18.35	18.36	1.001	1.001	NO	419.8		17.4	419.8
4	4 PCB-4/10			NO	1.28	1.012	19.77		1.004		YES			58.8	
5	5 PCB-7/9			NO	0.976	1.012	21.59		1.003		YES			48.4	
6	6 PCB-6			NO	1.02	1.012	22.24		1.033		YES			46.5	
7	7 PCB-5/8	3.13e3	1.53	NO	1.01	1.012	22.65	22.64	1.052	1.052	NO	380.0		46.7	380.0
8	8 PCB-14			NO	1.03	1.012	23.82		0.952		YES			54.8	
9	9 PCB-11			NO	1.10	1.012	25.05		1.001		YES			51.6	
10	10 PCB-12/13			NO	1.04	1.012	25.48		1.018		YES			54.5	
11	11 PCB-15	3.23e3	1.29	YES	1.03	1.012	25.79	25.76	1.030	1.029	NO	378.9		55.0	347.8
12	12 PCB-19	4.36e2	1.12	NO	0.934	1.012	23.97	23.95	1.001	1.000	NO	116.6		34.1	116.6
13	13 PCB-30			NO	1.48	1.012	24.90		1.040		YES			21.5	
14	14 PCB-18	2.10e3	1.05	NO	0.693	1.012	25.64	25.69	0.951	0.953	NO	519.6		33.7	519.6
15	15 PCB-17	2.33e3	1.00	NO	0.667	1.012	25.83	25.84	0.958	0.959	NO	597.2		35.0	597.2
16	16 PCB-24/27	5.39e2	0.90	NO	0.915	1.012	26.45	26.42	0.981	0.980	NO	100.9		25.5	100.9
17	17 PCB-16/32	3.25e3	0.96	NO	0.792	1.012	26.98	26.96	1.001	1.000	NO	703.2		29.5	703.2
18	18 PCB-34			NO	0.987	1.012	27.78		0.959		YES			23.8	
19	19 PCB-23			NO	0.974	1.012	27.88		0.962		YES			24.1	
20	20 PCB-29			NO	0.953	1.012	28.11		0.970		YES			24.6	
21	21 PCB-26	1.91e3	0.94	NO	1.00	1.012	28.36	28.36	0.979	0.979	NO	251.8		23.5	251.8
22	22 PCB-25	9.66e2	0.98	NO	0.978	1.012	28.51	28.53	0.984	0.985	NO	130.6		24.0	130.6
23	23 PCB-31	1.11e4	1.06	NO	1.12	1.012	28.90	28.90	0.998	0.997	NO	1310		20.9	1310
24	24 PCB-28	1.52e4	1.07	NO	1.11	1.012	28.99	28.99	1.001	1.001	NO	1816		21.2	1816
25	25 PCB-20/21/33	6.05e3	1.11	NO	1.00	1.012	29.64	29.64	1.023	1.023	NO	797.4		23.4	797.4
26	26 PCB-22	3.77e3	1.07	NO	1.03	1.012	30.09	30.09	1.039	1.039	NO	482.4		22.7	482.4
27	27 PCB-36			NO	1.18	1.012	30.74		0.932		YES			23.5	
28	28 PCB-39			NO	1.08	1.012	31.23		0.947		YES			25.5	
29	29 PCB-38			NO	1.13	1.012	32.03		0.971		YES			24.5	
30	30 PCB-35			NO	1.13	1.012	32.55		0.987		YES			24.5	

Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

Last Altered: Monday, November 18, 2019 11:37:11 Pacific Standard Time  
Printed: Monday, November 18, 2019 11:38:25 Pacific Standard Time

Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
31	31 PCB-37	4.75e3	0.97	NO	1.11	1.012	33.03	33.01	1.001	1.001	NO	641.0		25.0	641.0
32	1... 13C-PCB-1	1.49e5	3.09	NO	1.08	1.012	15.67	15.67	0.609	0.609	NO	13010	65.9		133
33	1... 13C-PCB-3	1.57e5	3.41	NO	1.09	1.012	18.33	18.34	0.712	0.713	NO	13500	68.4		131
34	1... 13C-PCB-4	9.81e4	1.69	NO	0.640	1.012	19.69	19.69	0.765	0.765	NO	14400	72.9		53.8
35	1... 13C-PCB-9	1.61e5	1.59	NO	0.995	1.012	21.53	21.53	0.837	0.837	NO	15160	76.7		34.6
36	1... 13C-PCB-11	1.65e5	1.62	NO	0.971	1.012	25.01	25.03	0.972	0.973	NO	15950	80.8		35.5
37	1... 13C-PCB-19	7.90e4	1.02	NO	0.637	1.012	23.95	23.94	0.931	0.931	NO	11640	58.9		322
38	1... 13C-PCB-32	1.15e5	1.03	NO	0.910	1.012	26.97	26.95	1.048	1.048	NO	11900	60.3		228
39	1... 13C-PCB-28	1.49e5	1.01	NO	1.07	1.012	28.95	28.97	1.003	1.004	NO	18150	91.9		333
40	1... 13C-PCB-37	1.32e5	1.01	NO	0.959	1.012	32.94	32.99	1.141	1.143	NO	17900	90.6		372
41	2... 13C-PCB-15	2.10e5	1.58	NO	1.00	1.012	25.71	25.73	1.000	0.000	NO	19750	100		34.4
42	2... 13C-PCB-31	1.52e5	0.93	NO	1.00	1.012	28.84	28.86	1.000	0.000	NO	19750	100		357

Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

Last Altered: Monday, November 18, 2019 11:37:11 Pacific Standard Time  
Printed: Monday, November 18, 2019 11:38:33 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-14-19.mdb 14 Nov 2019 15:03:40  
Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R	RRT	Check RRT	Conc	%Rec	DI	EMPC
1	2... Total Mono-PCBs				1.01	1.012	0.00		0.000		NO	927.3		52.8	927.3
2	2... Total Di-PCBs				1.06	1.012	0.00		0.000		NO	380.0		416	727.8
3	2... 2nd Function Tri-PCBs				0.914	1.012	0.00		0.000		NO	2037		179	2037
4	2... 3rd Function Tri-PCBs				1.06	1.012	0.00		0.000		NO	5429	7, Aldo -	331	5429

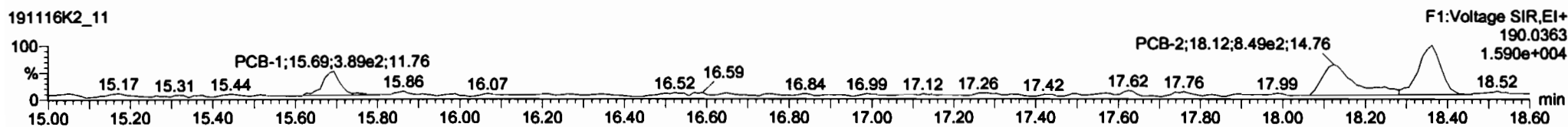
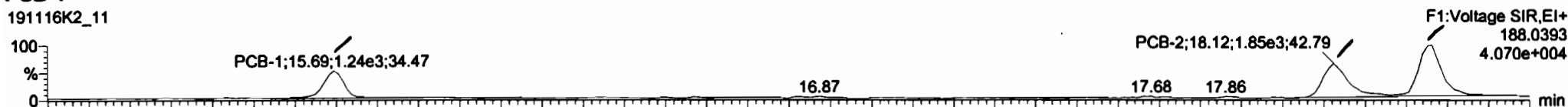
Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time  
Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

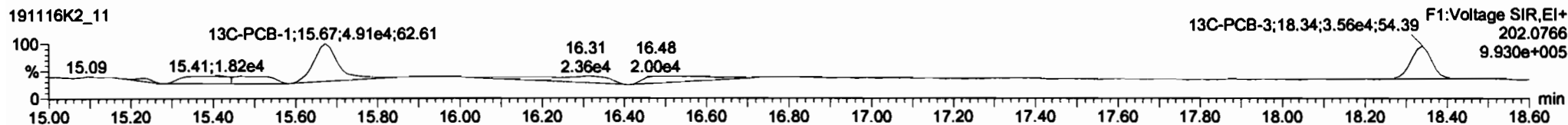
Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-14-19.mdb 14 Nov 2019 15:03:40  
Calibration: U:\VG11.PRO\CurveDB\1b1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

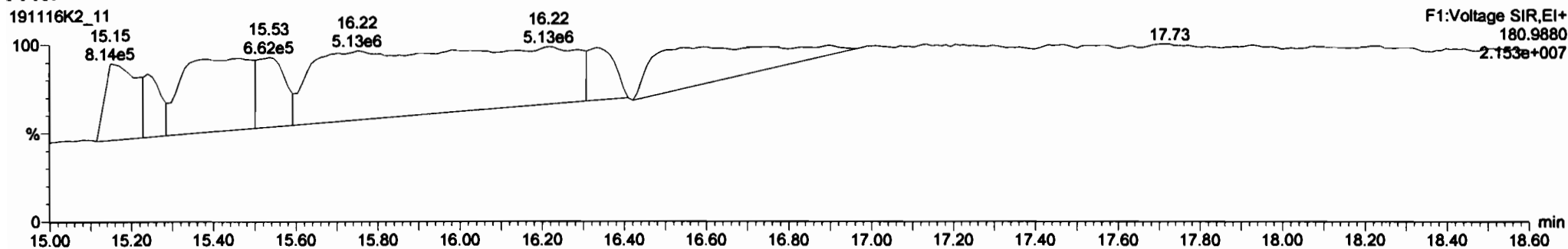
**PCB-1**

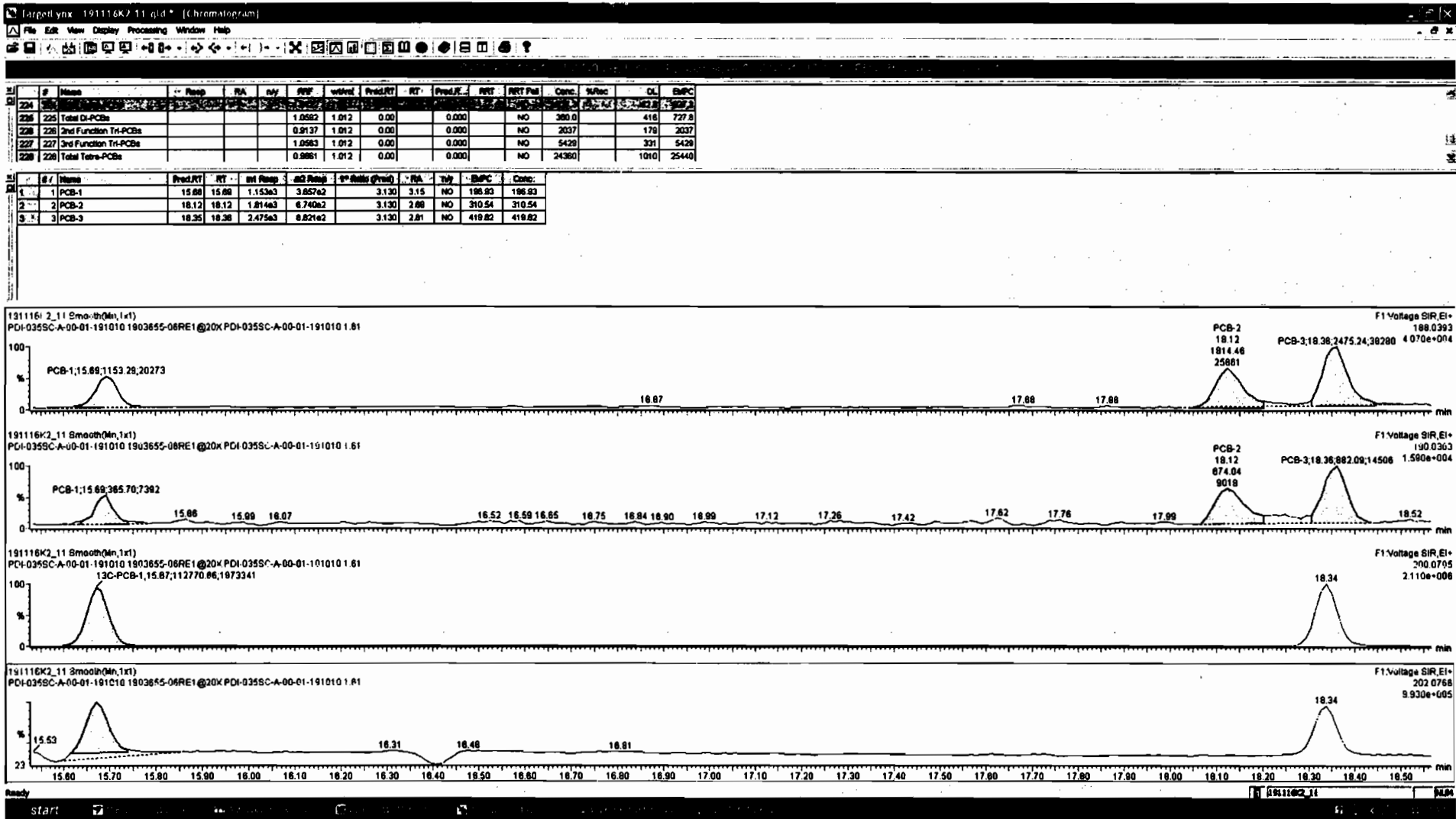


**13C-PCB-1**



**PFK1**



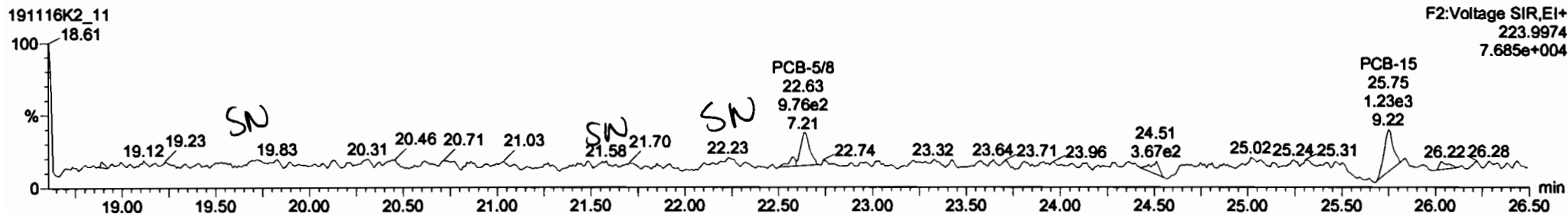
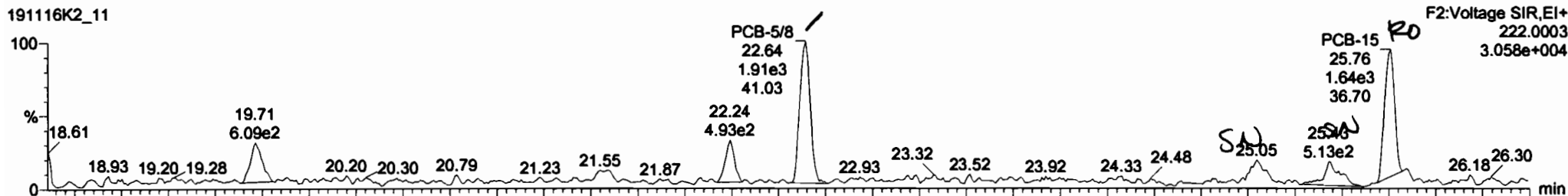


Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

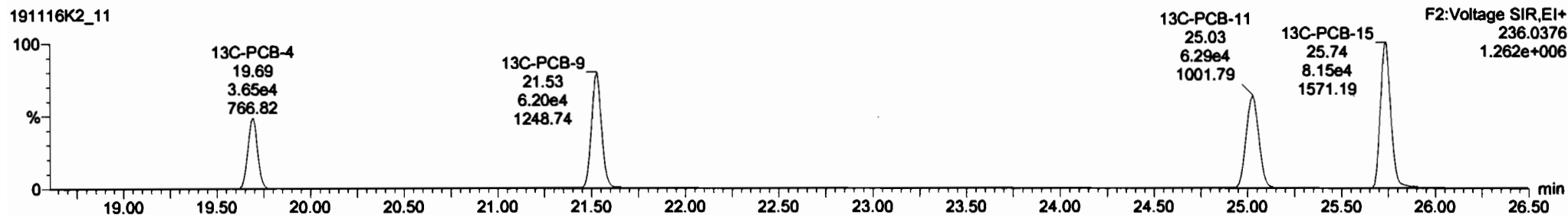
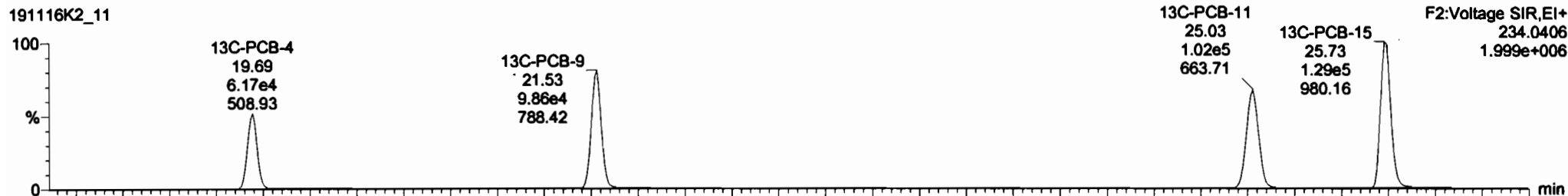
Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time  
Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

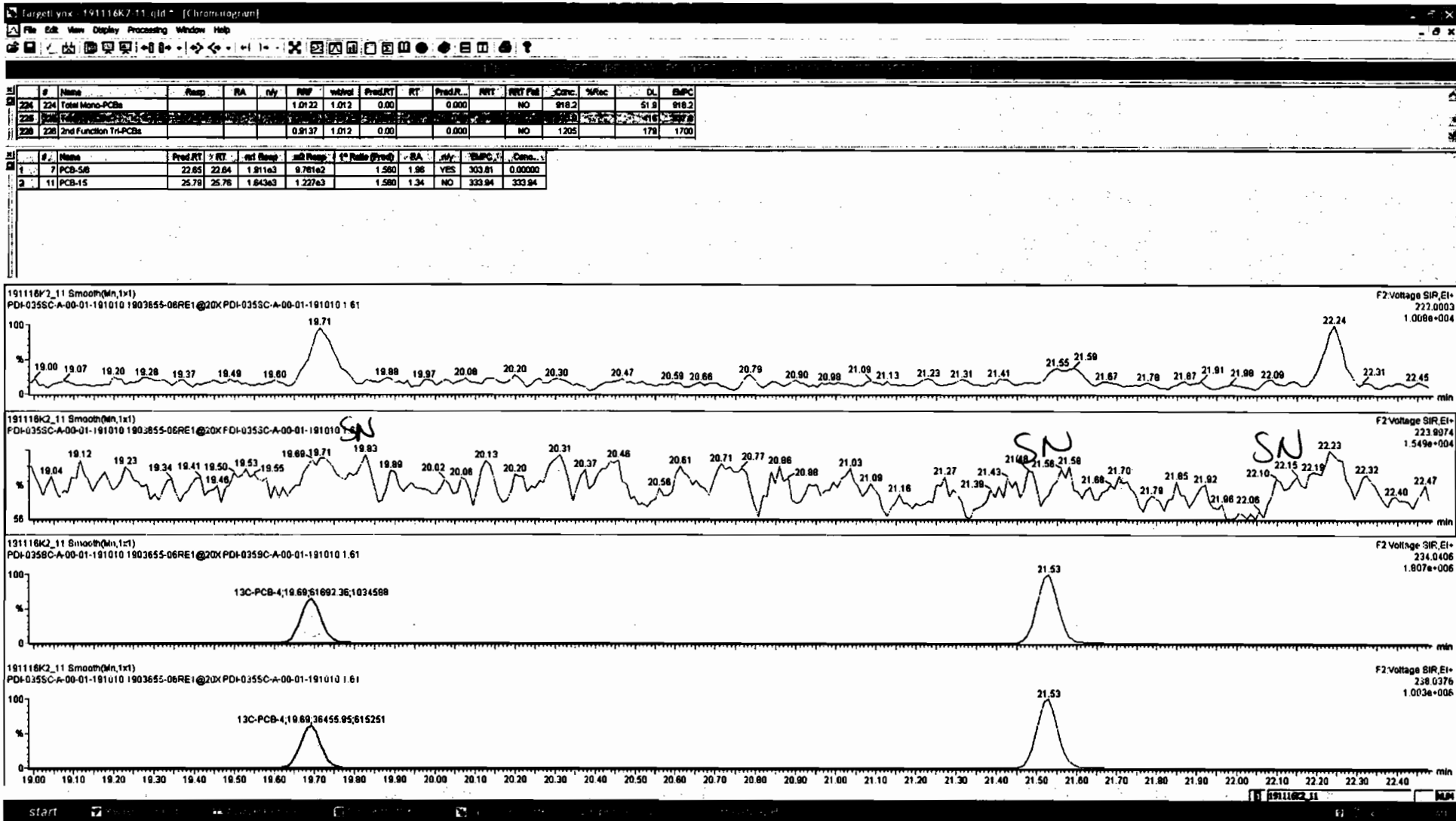
Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

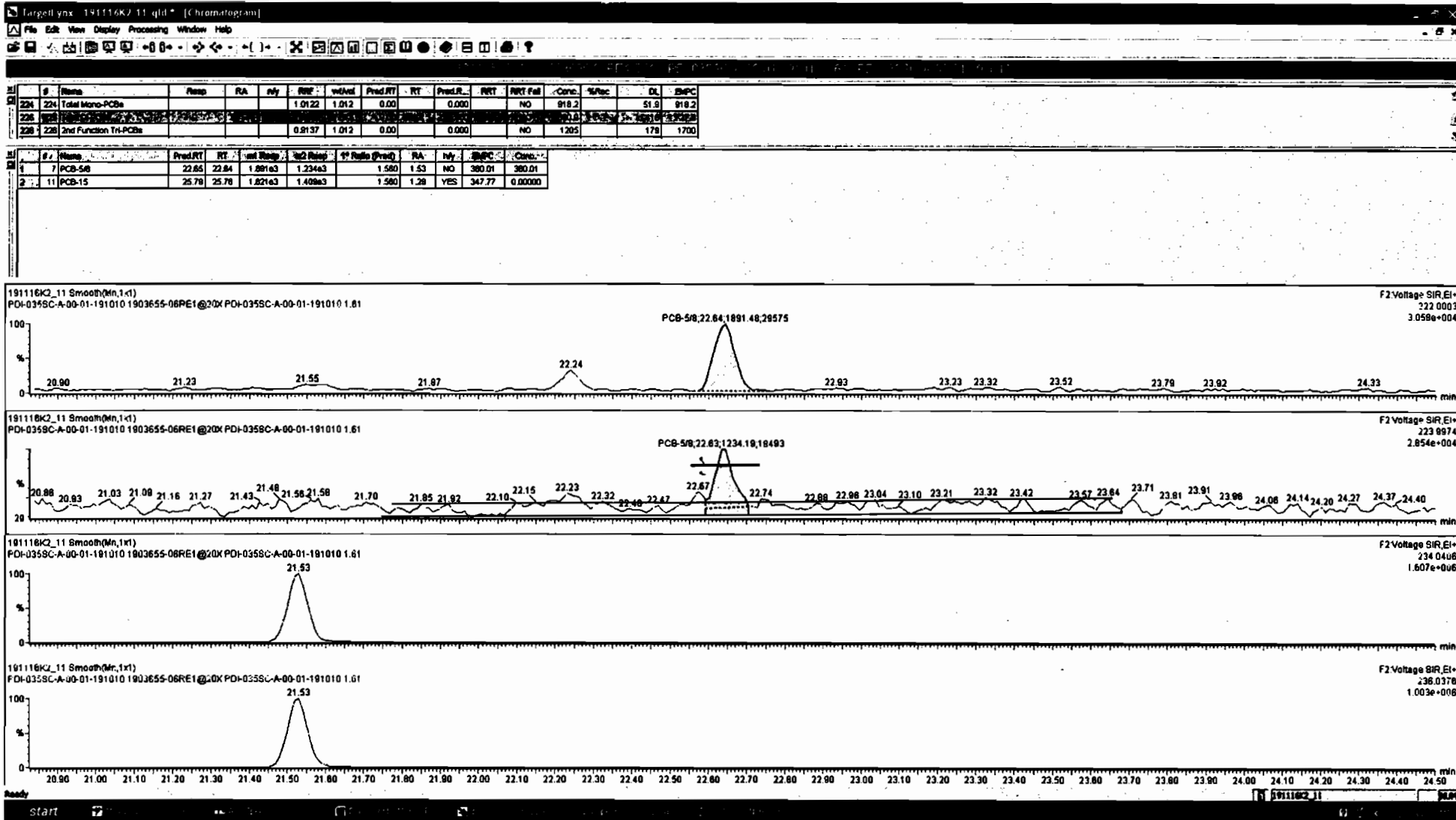
PCB-4/10



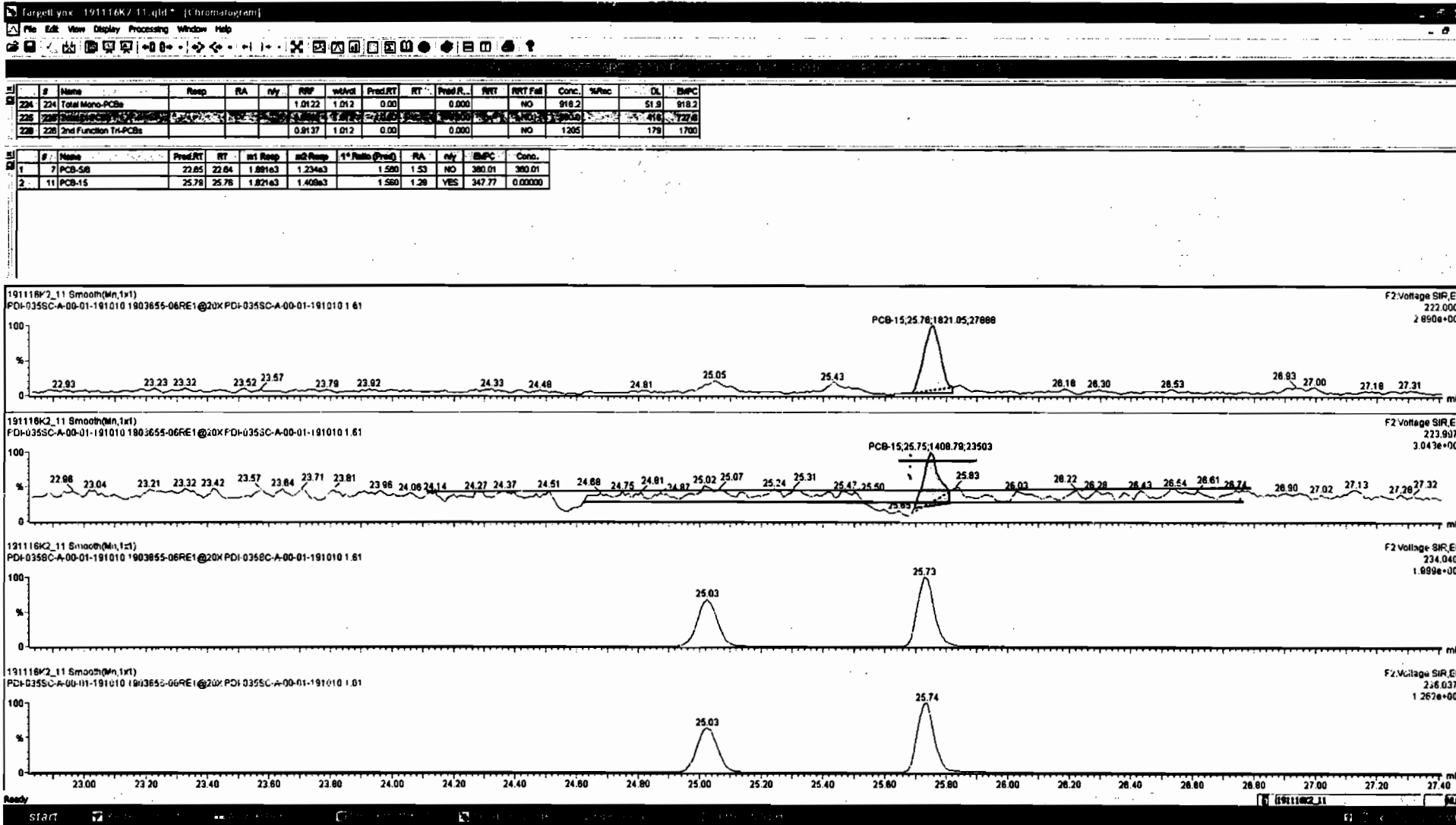
13C-PCB-4











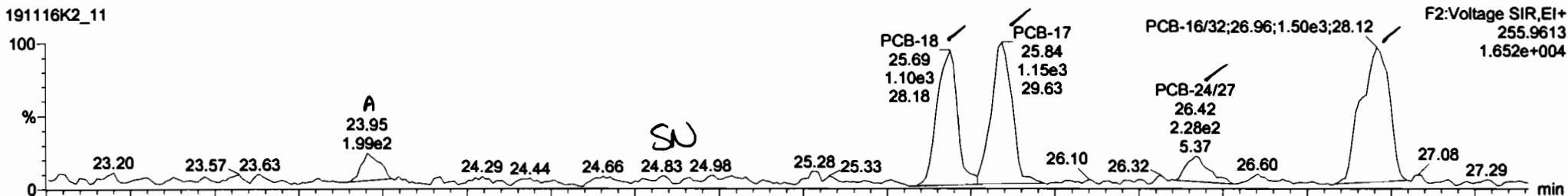
Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time  
 Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

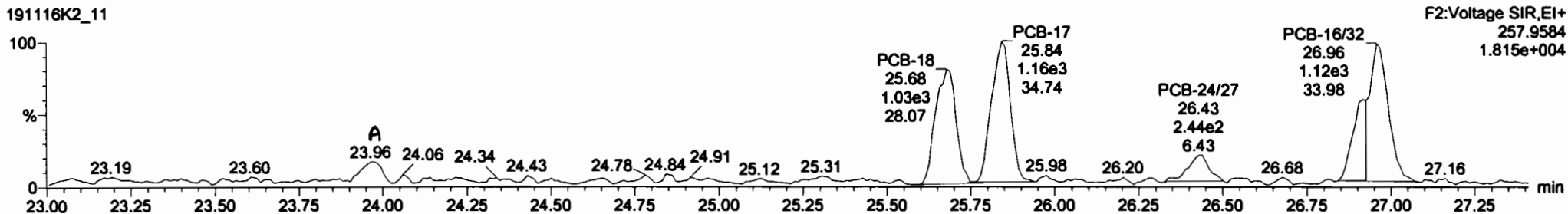
Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

**PCB-19**

191116K2\_11

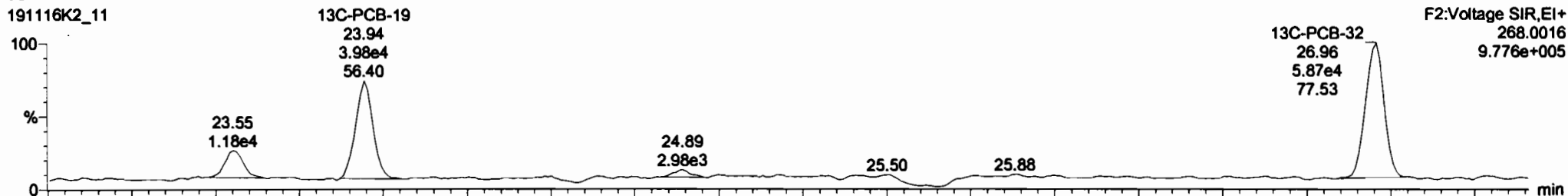


191116K2\_11

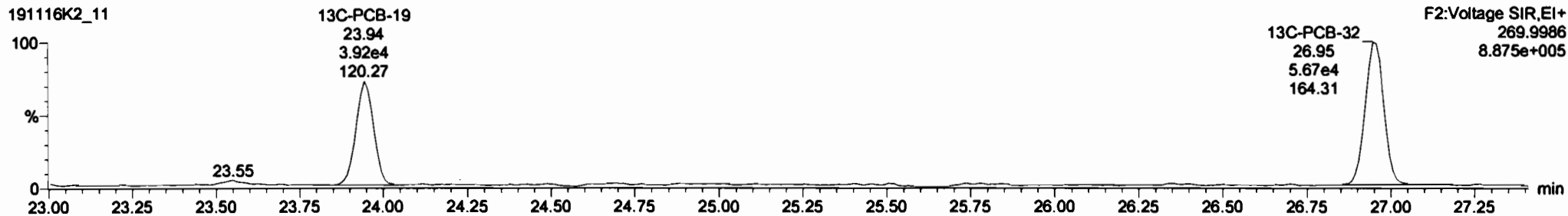


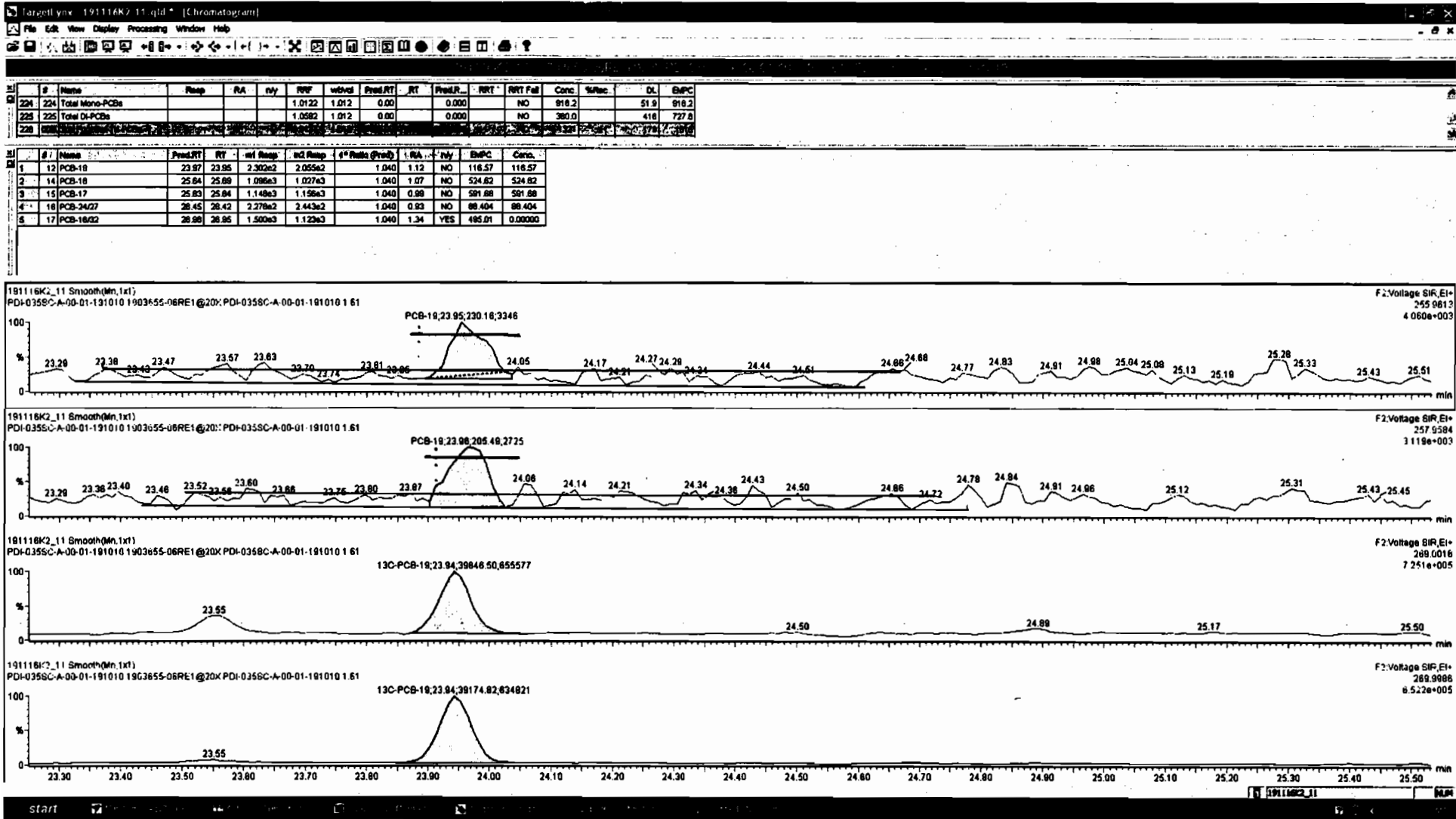
**13C-PCB-19**

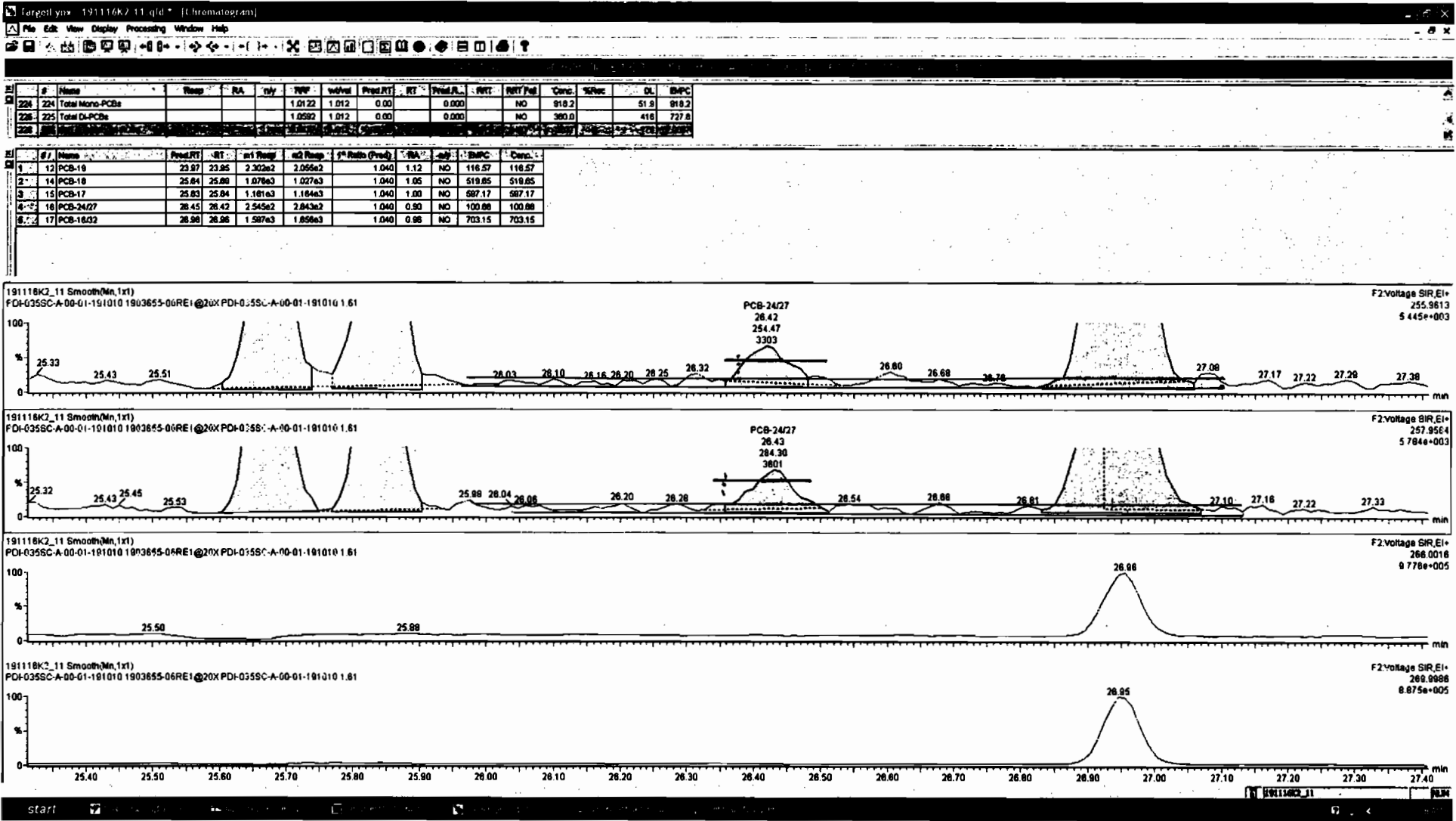
191116K2\_11



191116K2\_11





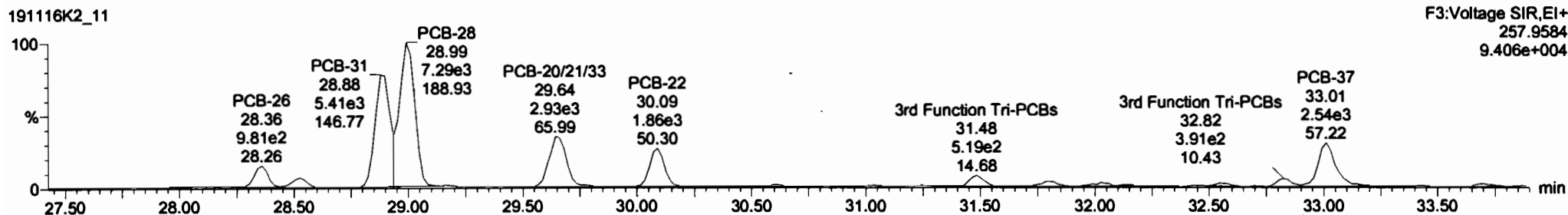
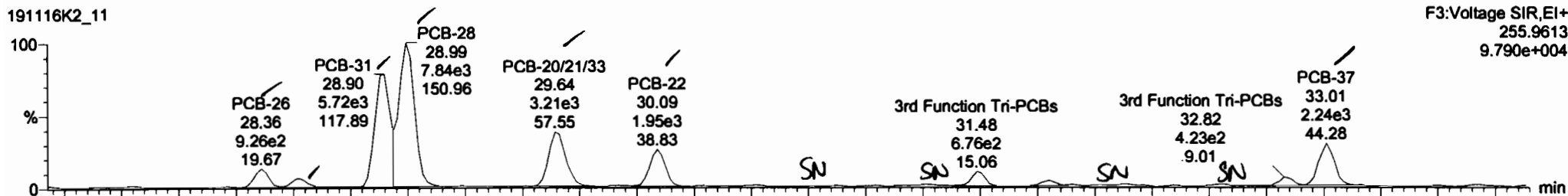


Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

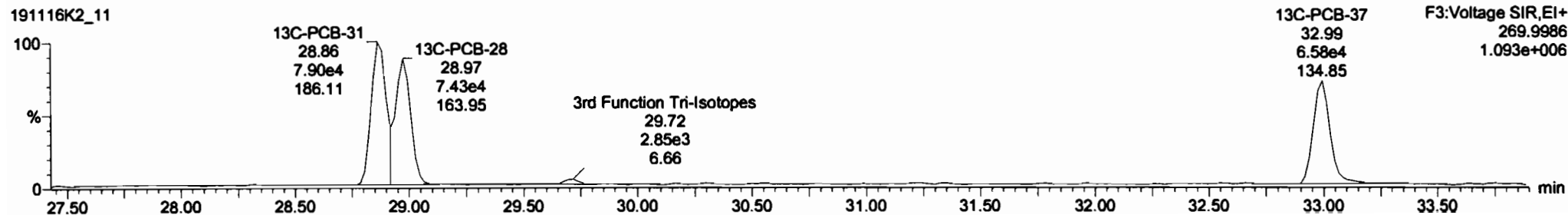
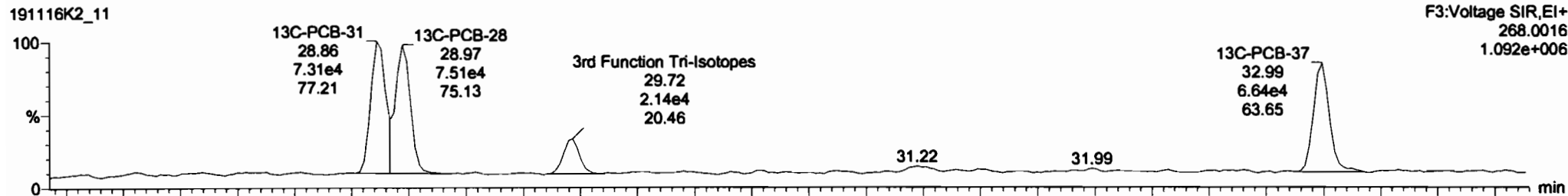
Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time  
 Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

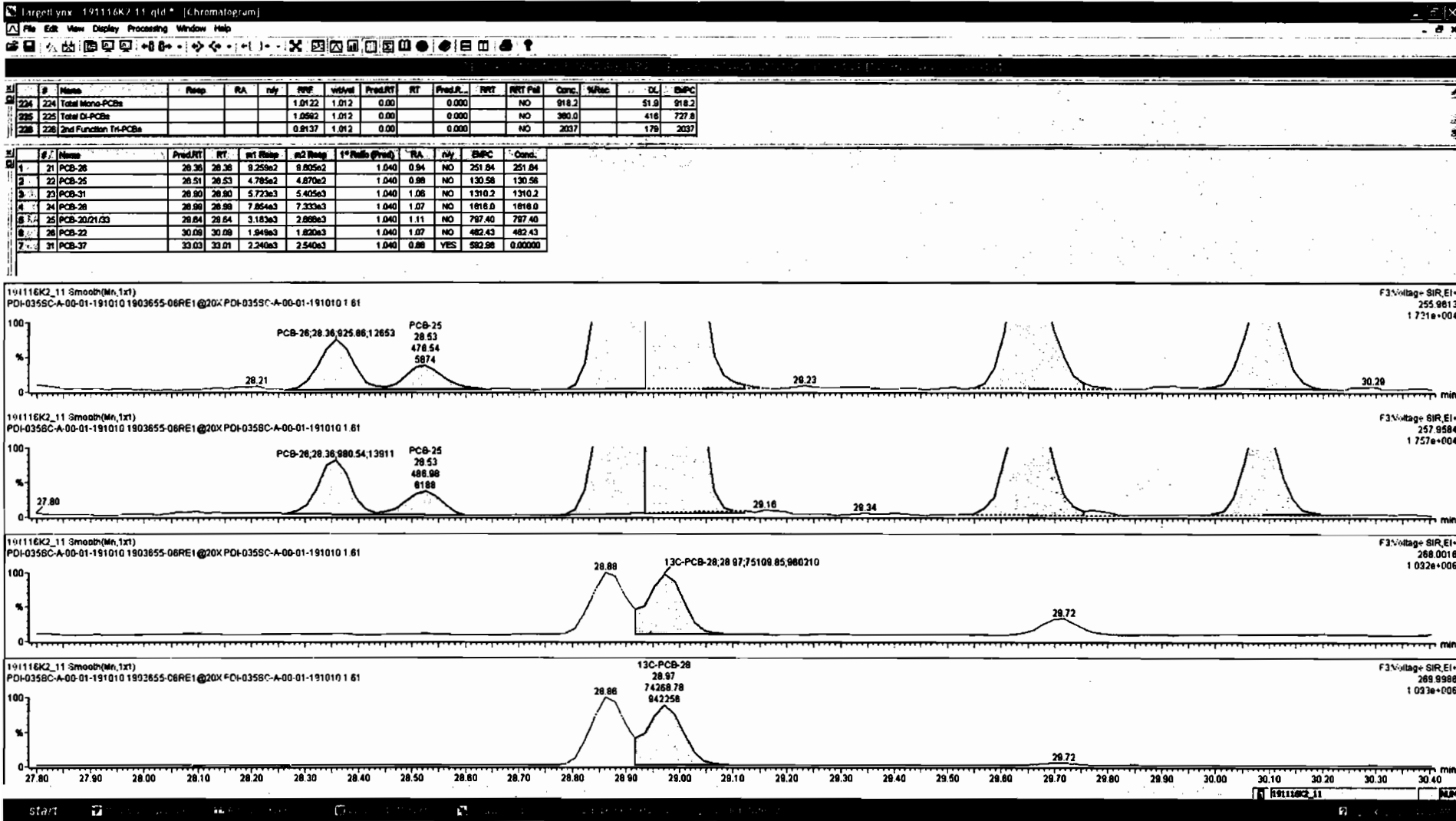
Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

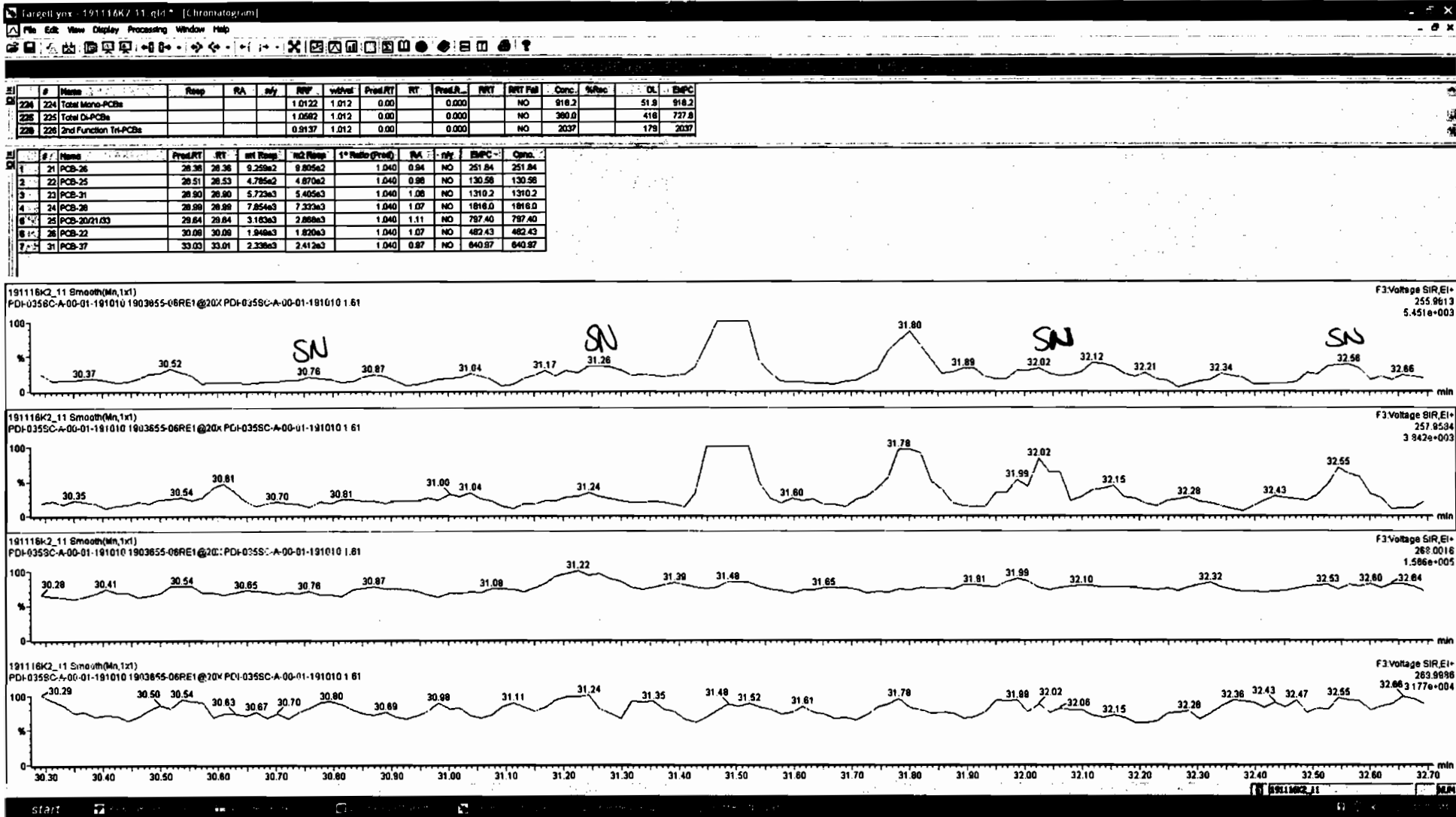
**PCB-34**

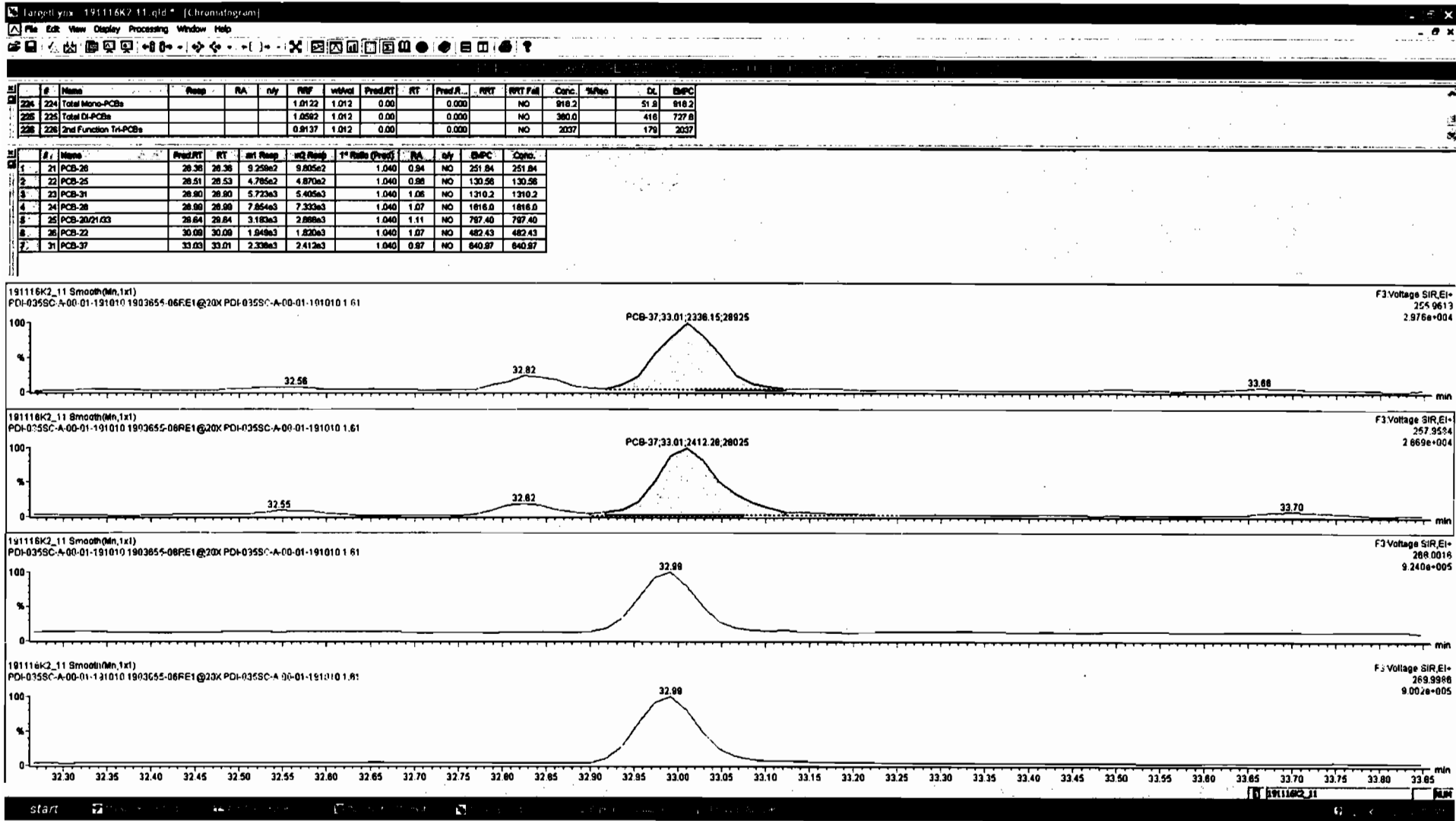


**13C-PCB-28**









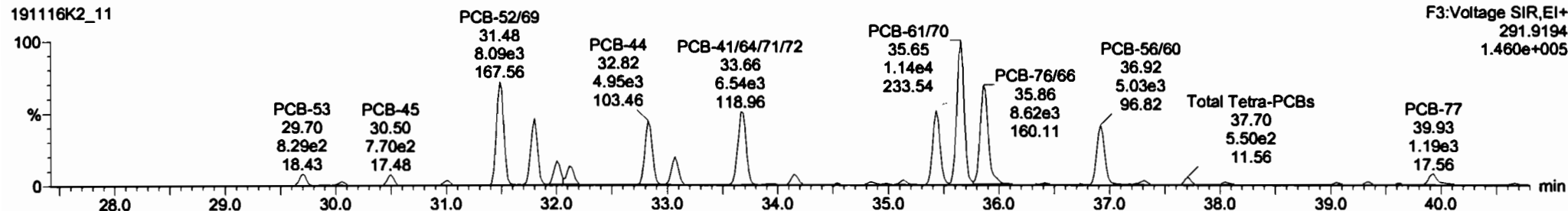
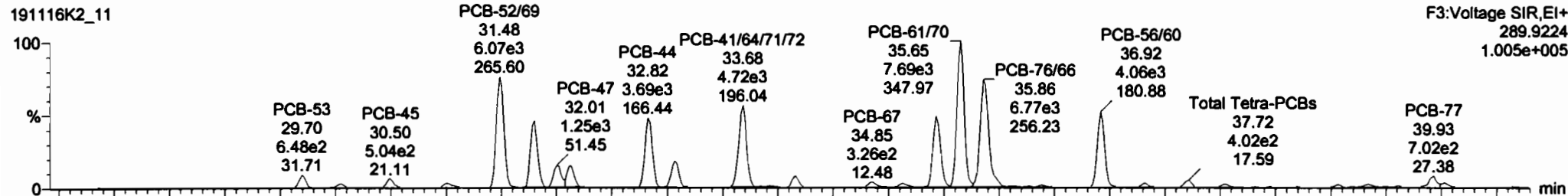


Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

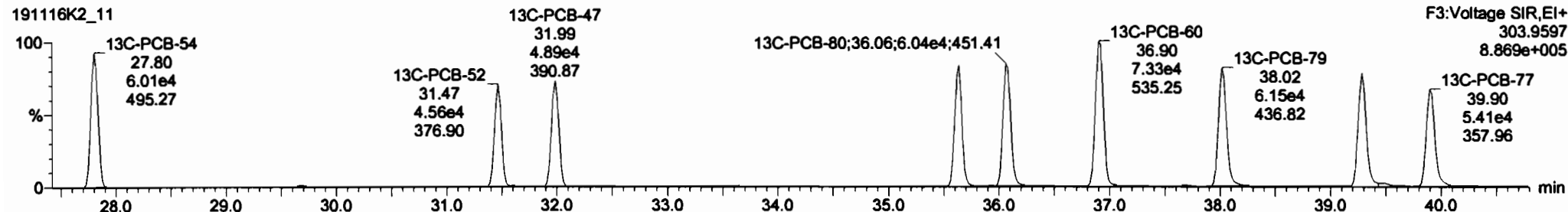
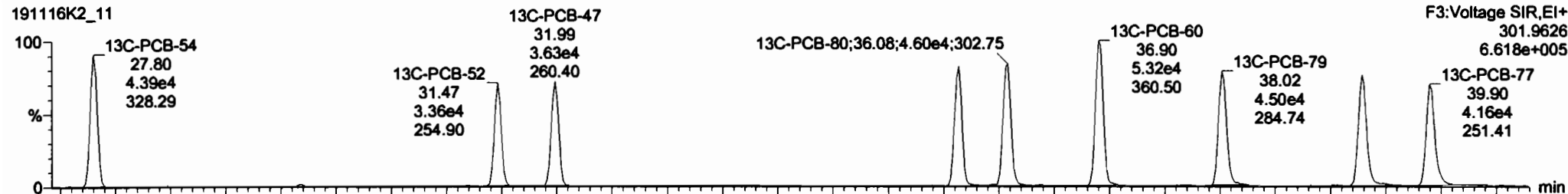
Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time  
 Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

**PCB-54**



**13C-PCB-54**

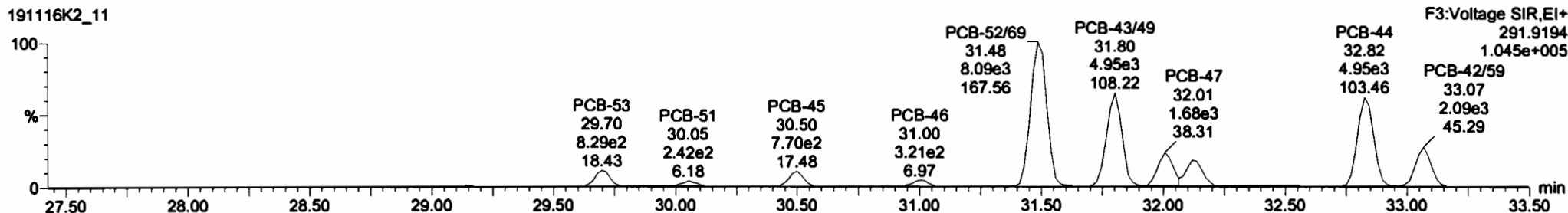
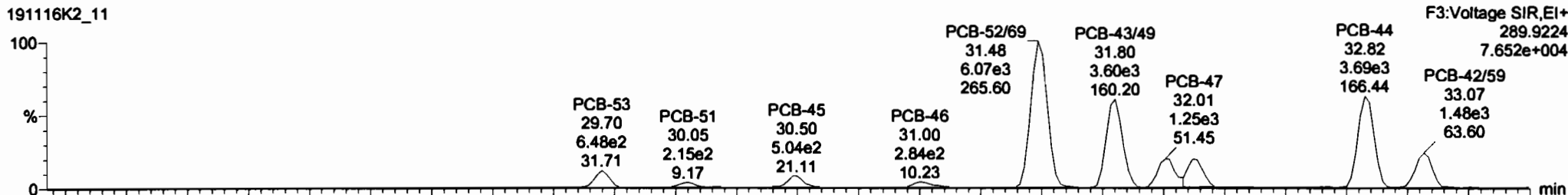


Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

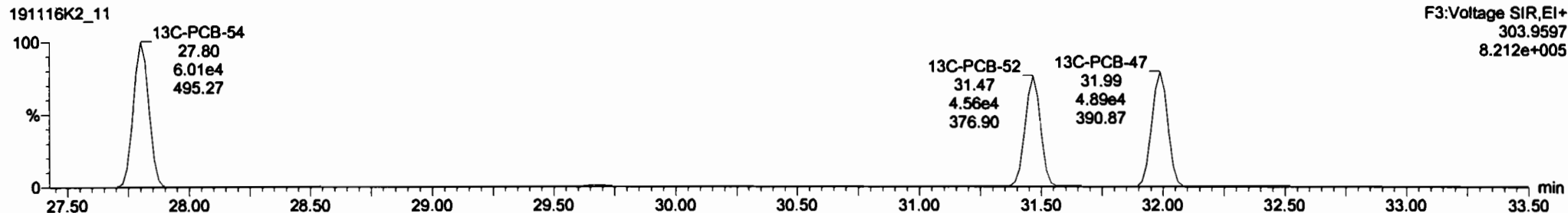
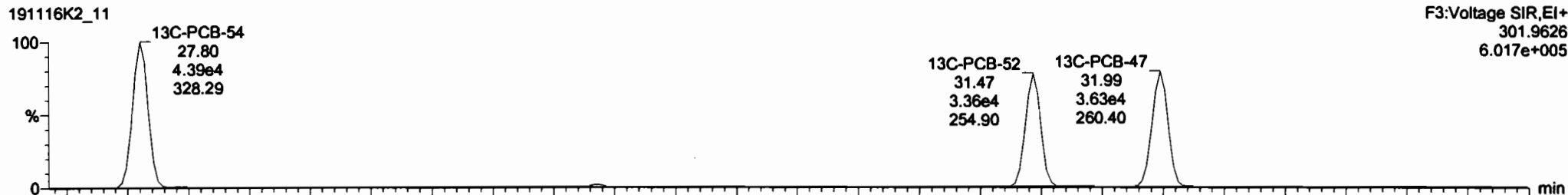
Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time  
 Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

**PCB-50**



**13C-PCB-52**

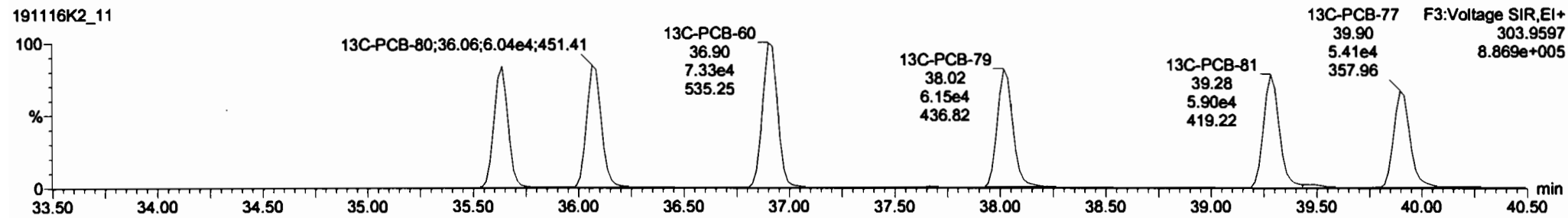
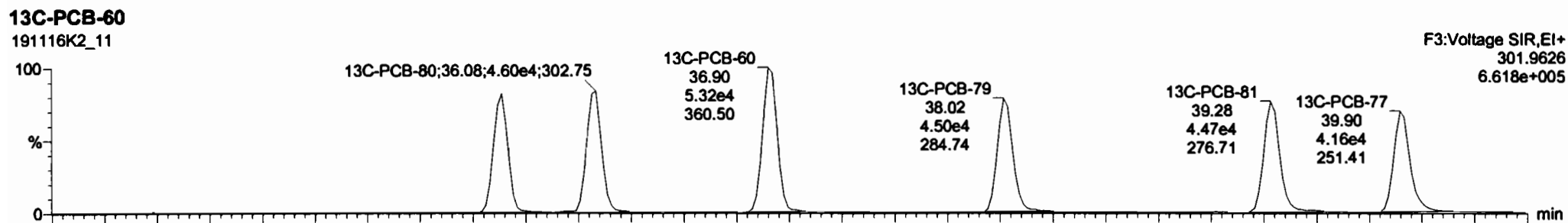
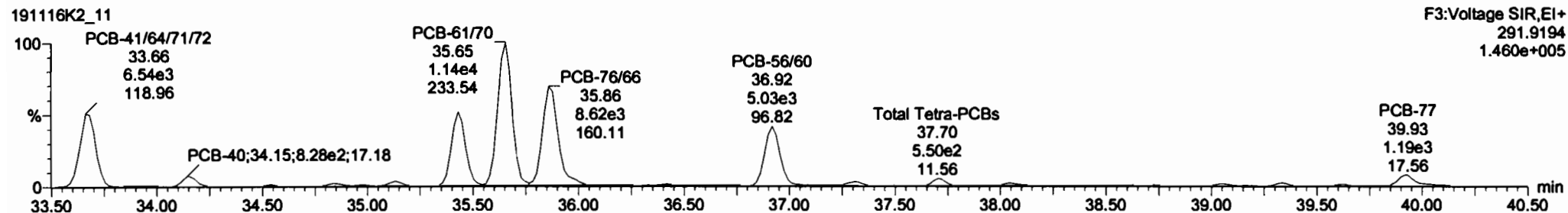
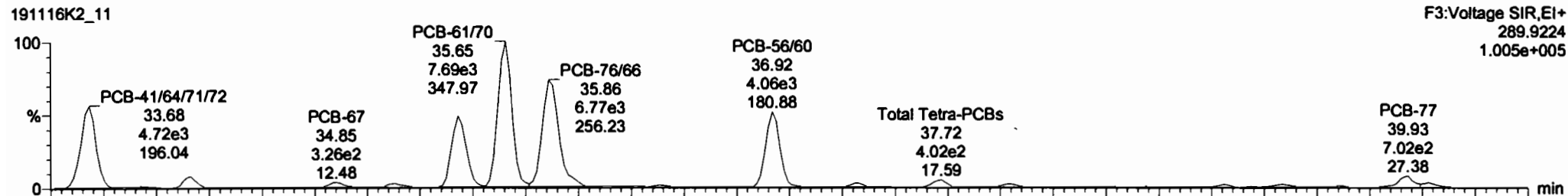


Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time  
Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

PCB-68



Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

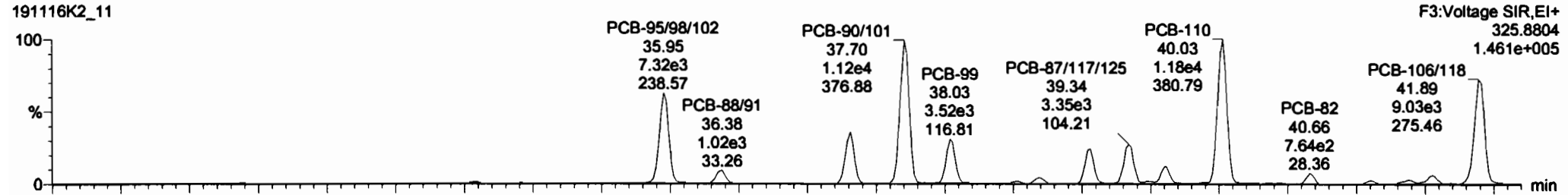
Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time

Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

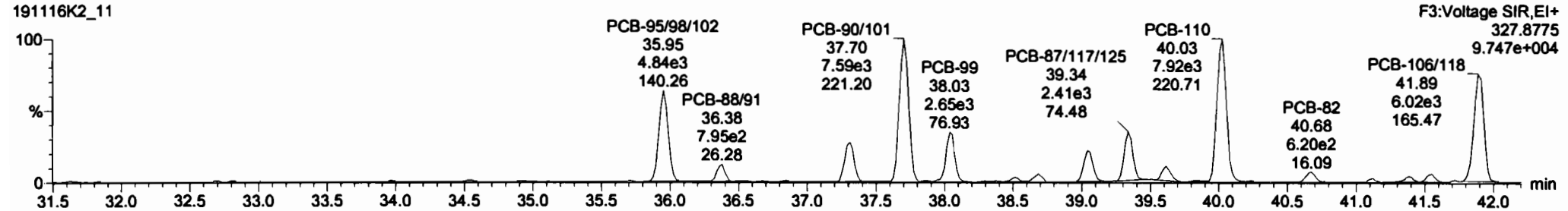
Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

PCB-104

191116K2\_11

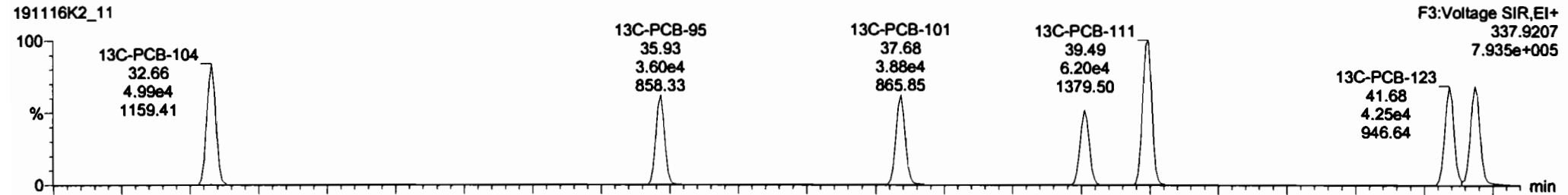


191116K2\_11

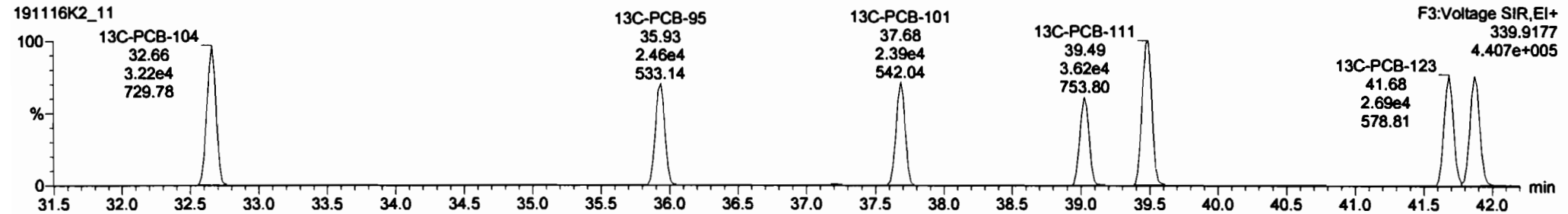


13C-PCB-104

191116K2\_11



191116K2\_11



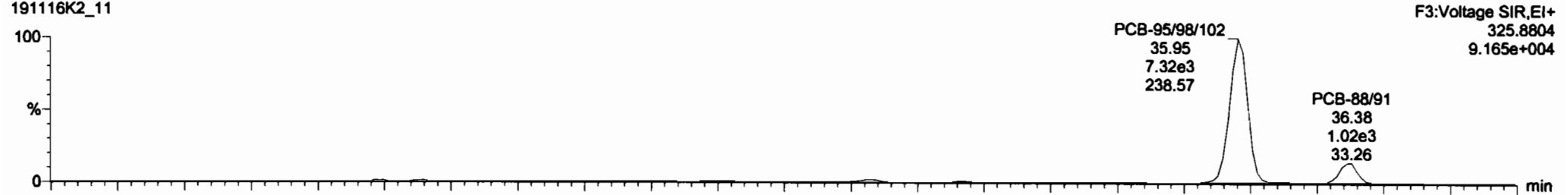
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Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time  
Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

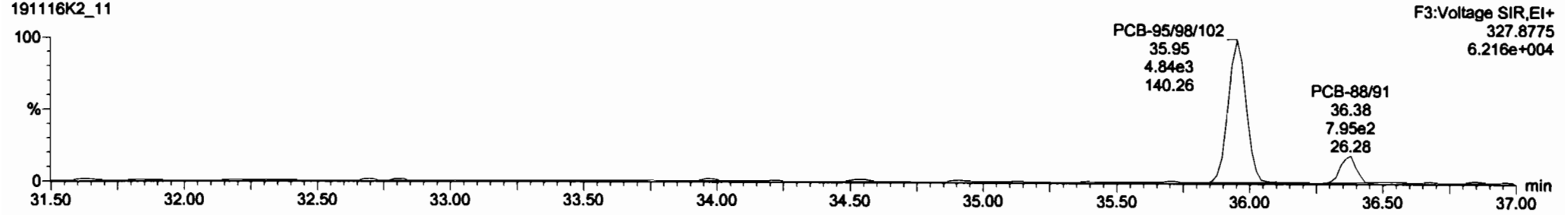
Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

**PCB-96**

191116K2\_11

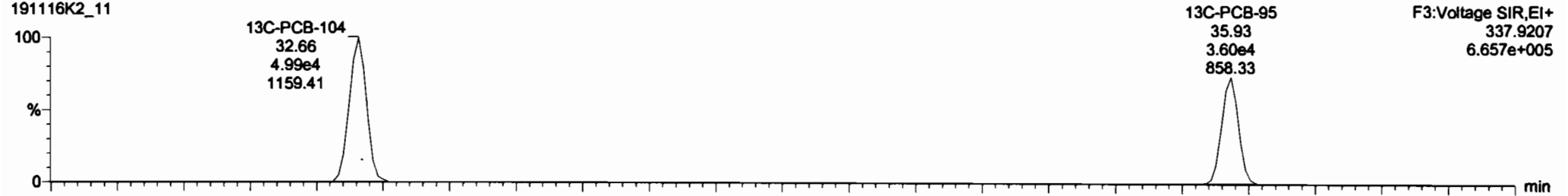


191116K2\_11

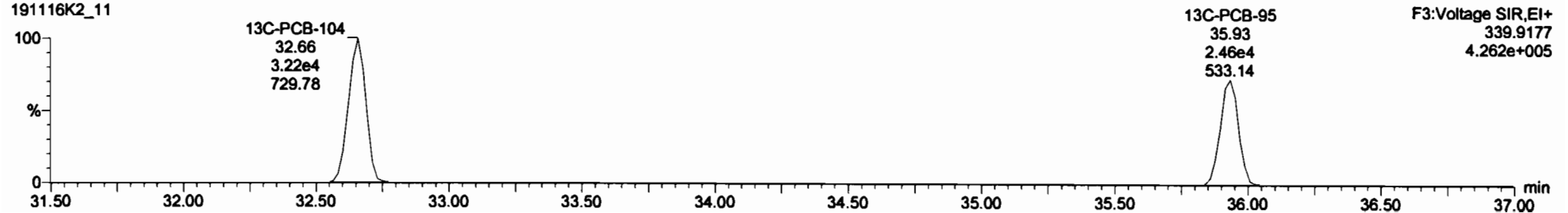


**13C-PCB-95**

191116K2\_11



191116K2\_11



Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

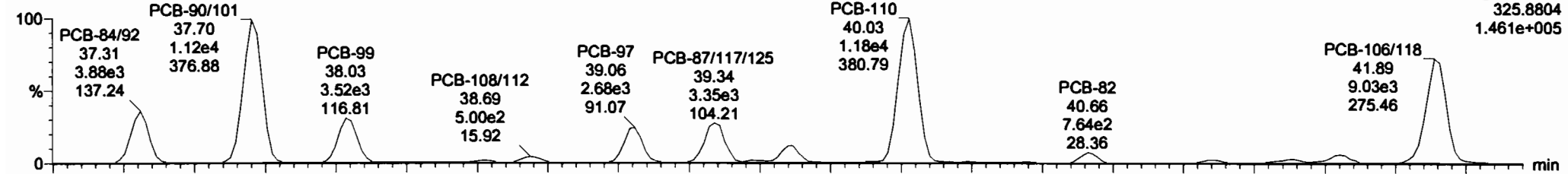
Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time

Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

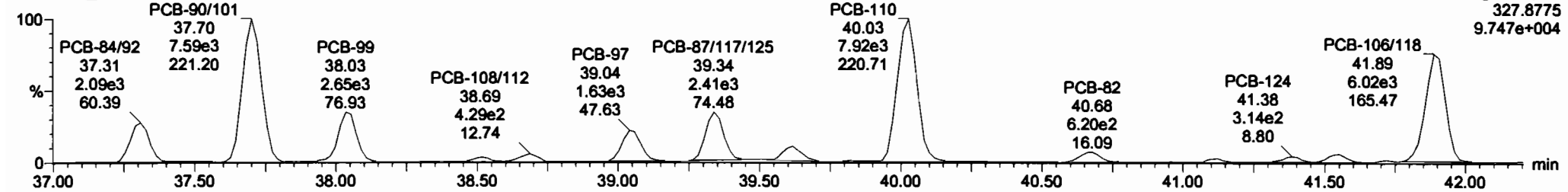
Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

**PCB-119**

191116K2\_11

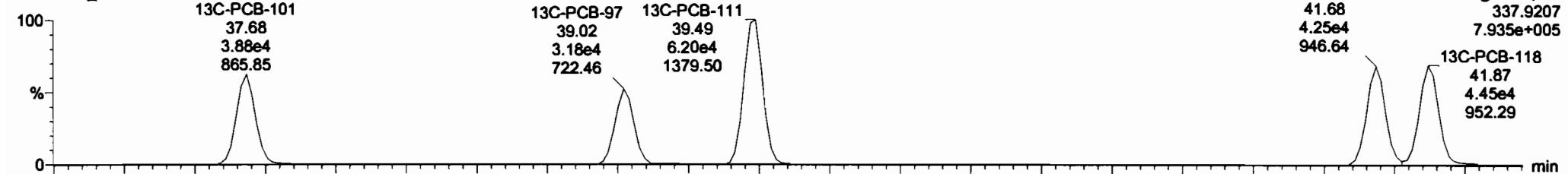


191116K2\_11

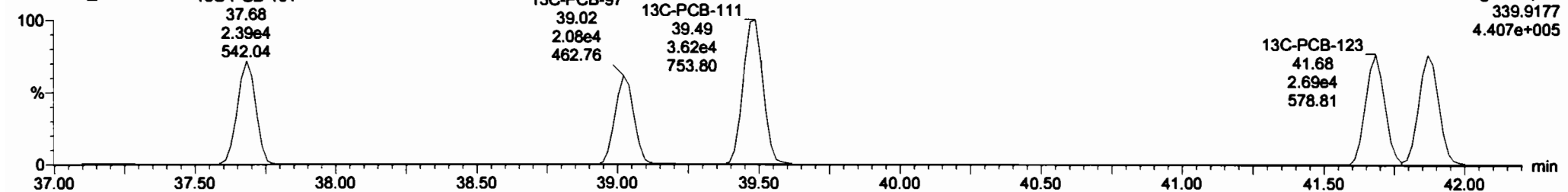


**13C-PCB-111**

191116K2\_11



191116K2\_11



Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

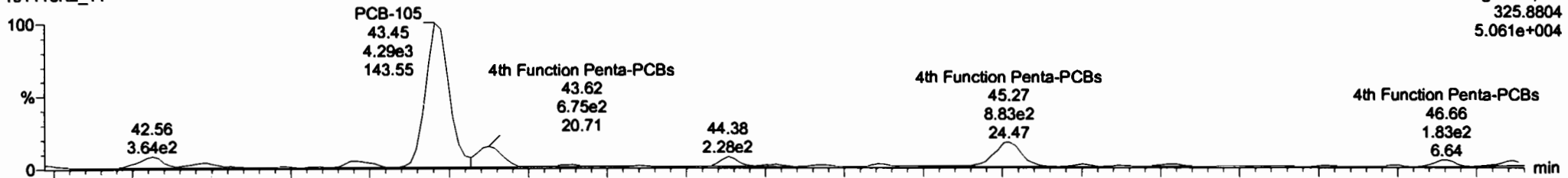
Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time  
Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

**PCB-114**

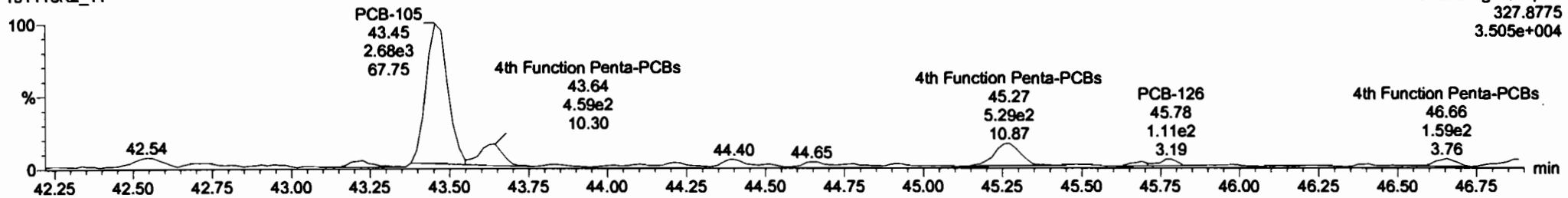
191116K2\_11

F4:Voltage SIR,EI+  
325.8804  
5.061e+004



191116K2\_11

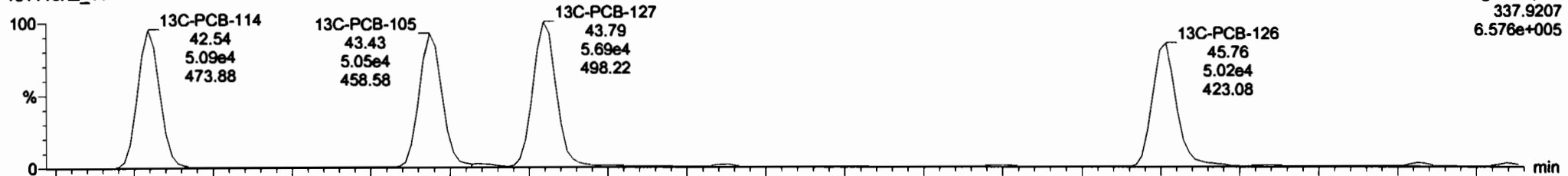
F4:Voltage SIR,EI+  
327.8775  
3.505e+004



**13C-PCB-114**

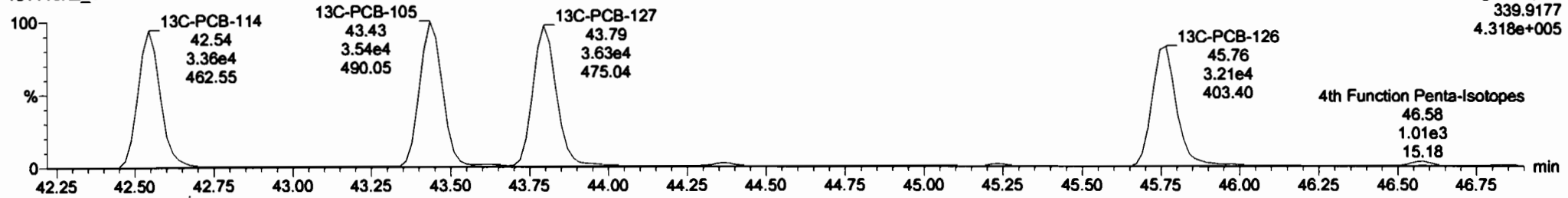
191116K2\_11

F4:Voltage SIR,EI+  
337.9207  
6.576e+005



191116K2\_11

F4:Voltage SIR,EI+  
339.9177  
4.318e+005



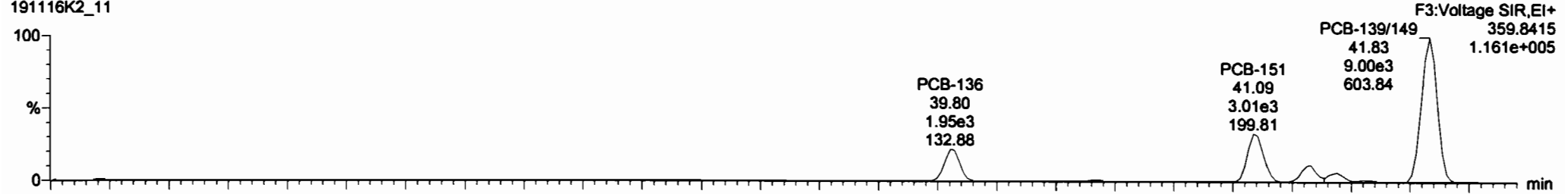
Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time  
Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

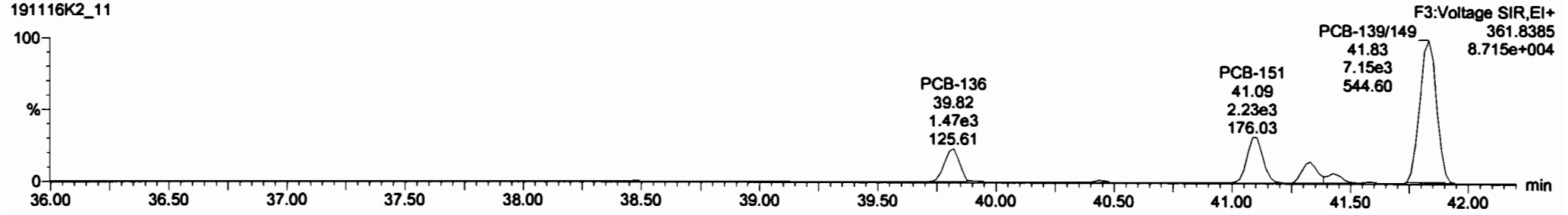
Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

**PCB-155**

191116K2\_11

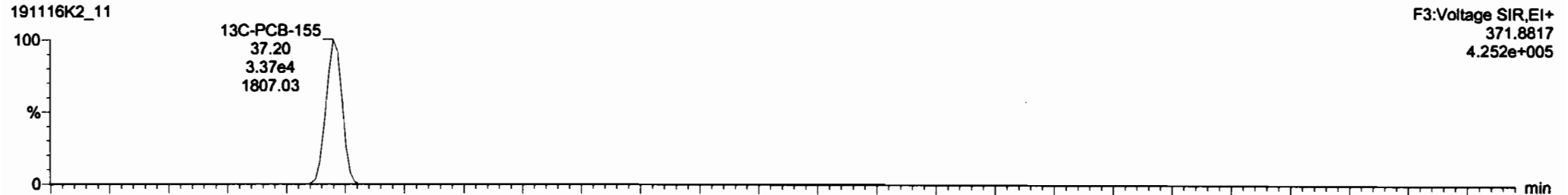


191116K2\_11

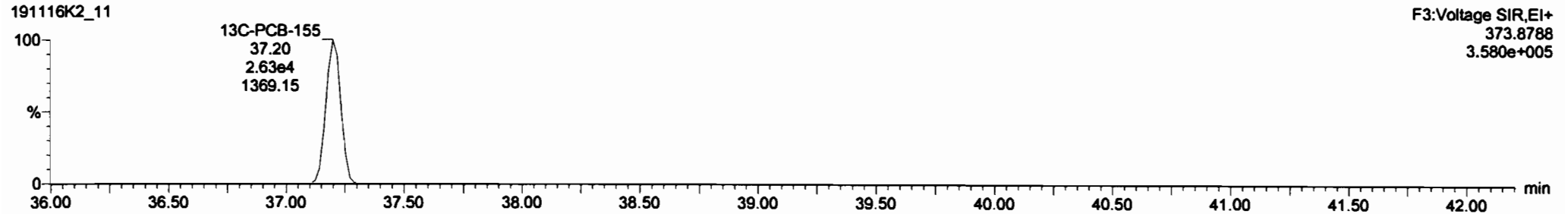


**13C-PCB-155**

191116K2\_11



191116K2\_11



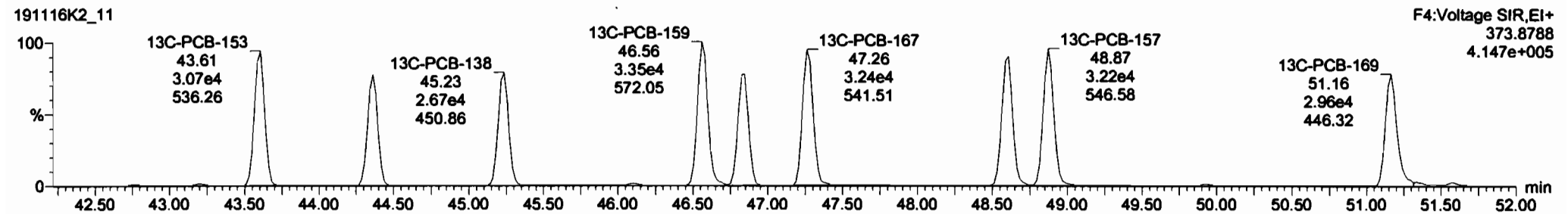
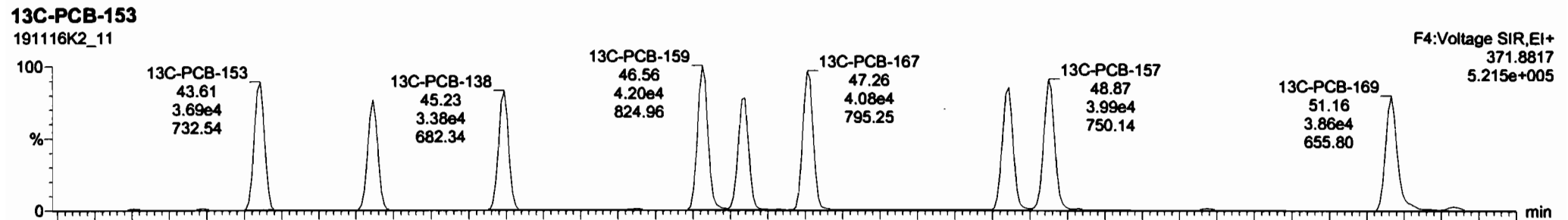
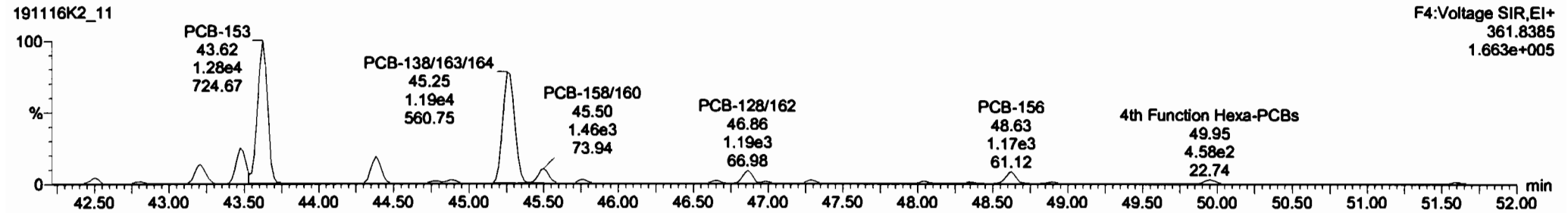
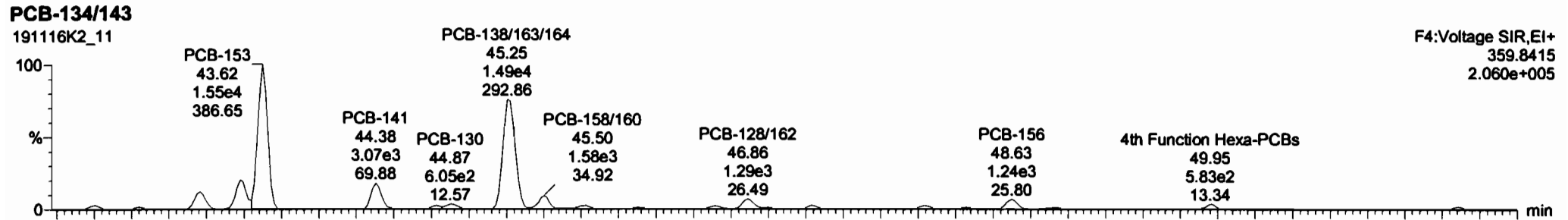


Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time

Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010



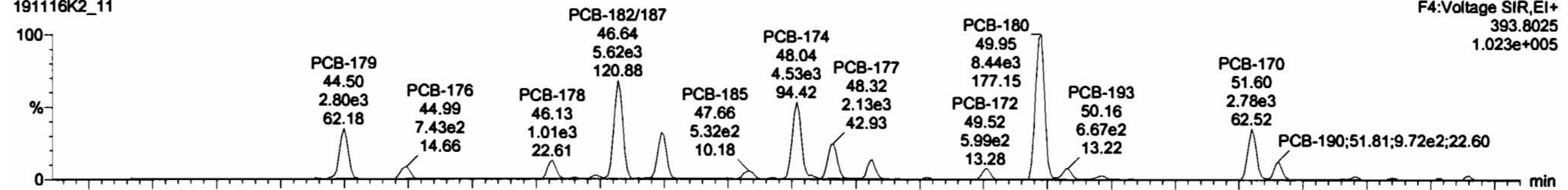
Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time  
Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

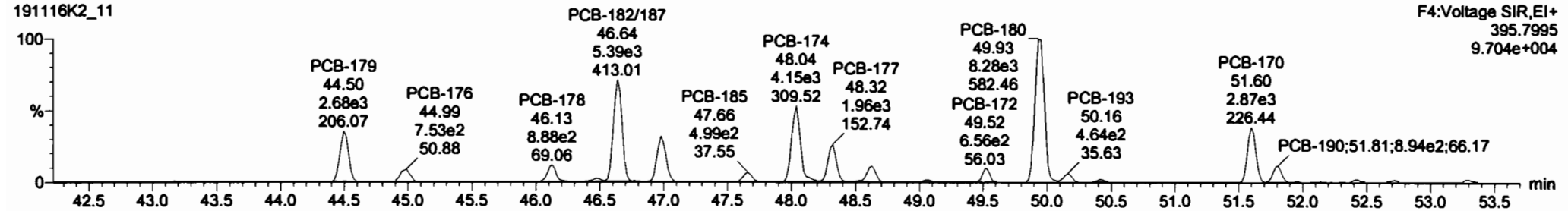
Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

**PCB-188**

191116K2\_11

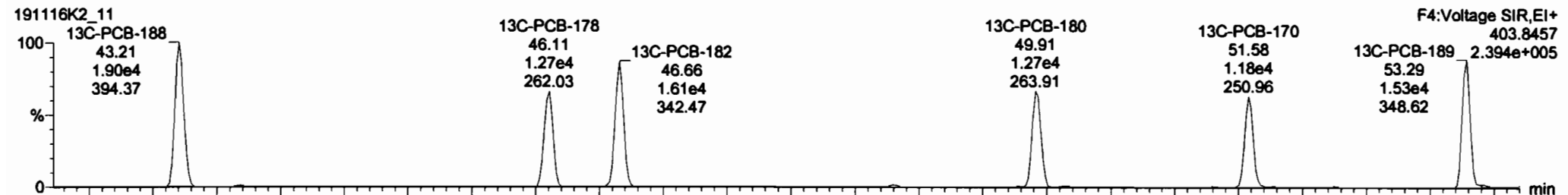


191116K2\_11

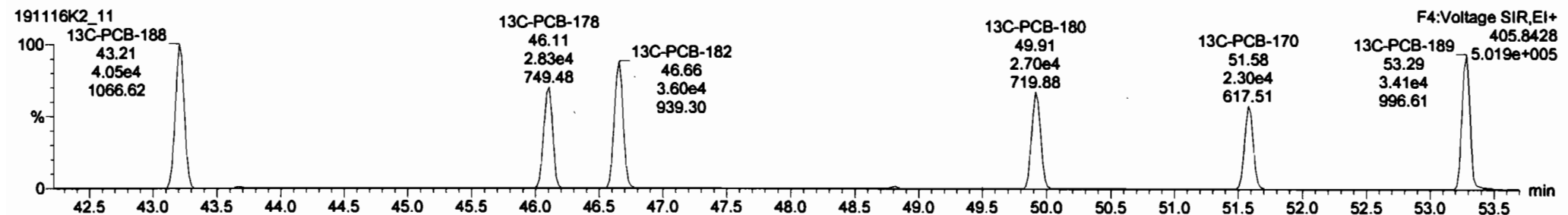


**13C-PCB-188**

191116K2\_11



191116K2\_11



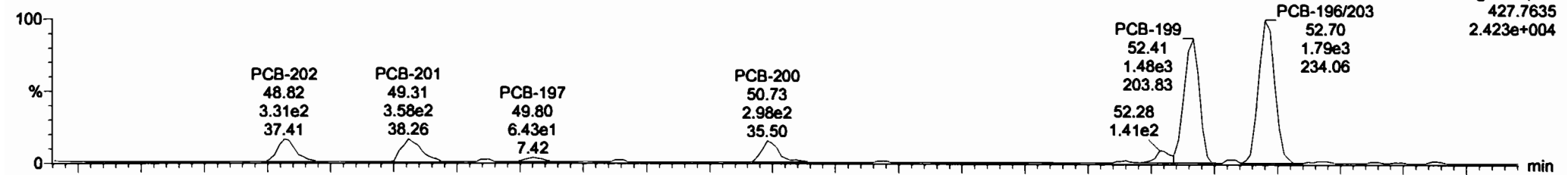
Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time  
Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

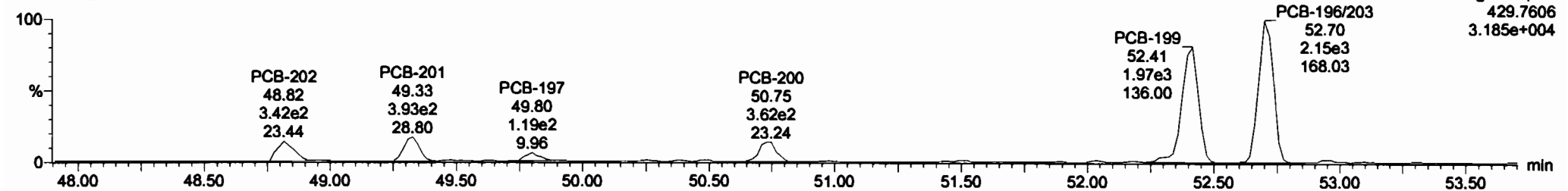
Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

**PCB-202**

191116K2\_11

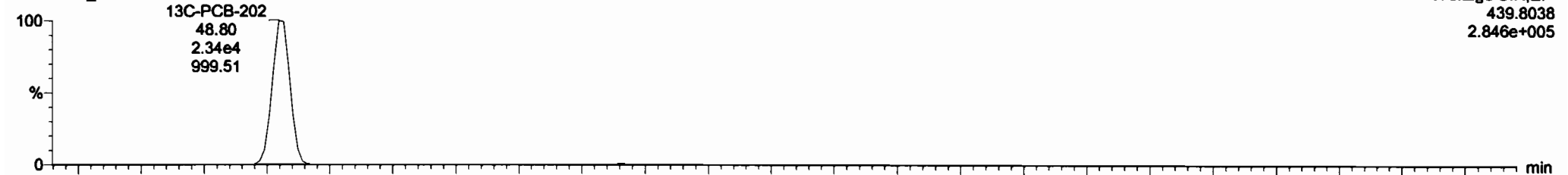


191116K2\_11

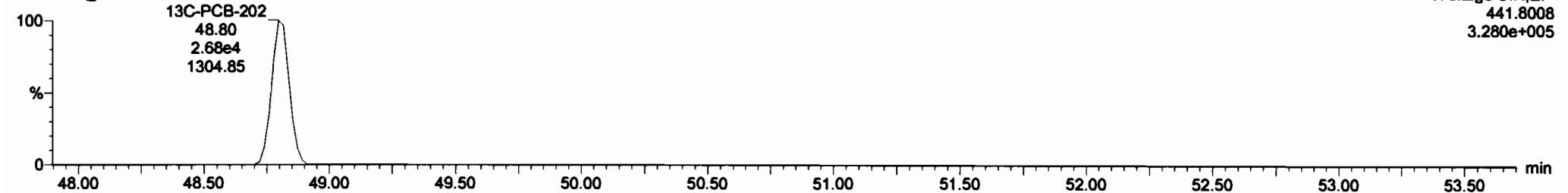


**13C-PCB-202**

191116K2\_11



191116K2\_11



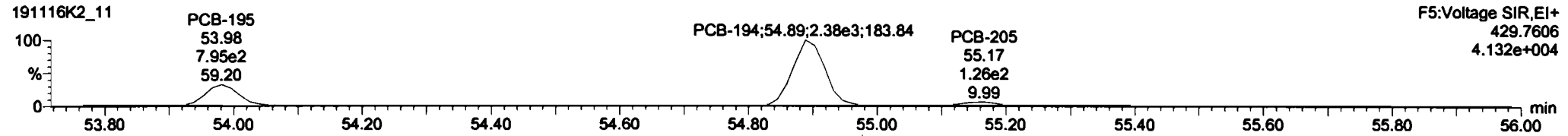
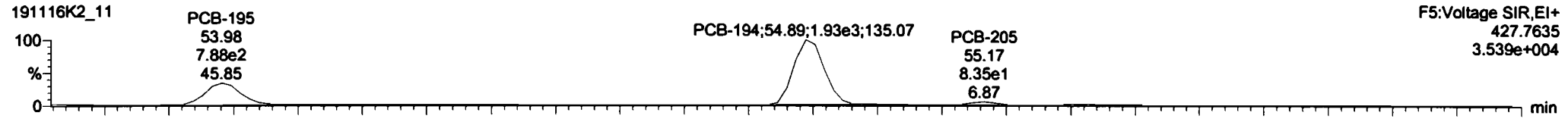
Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time

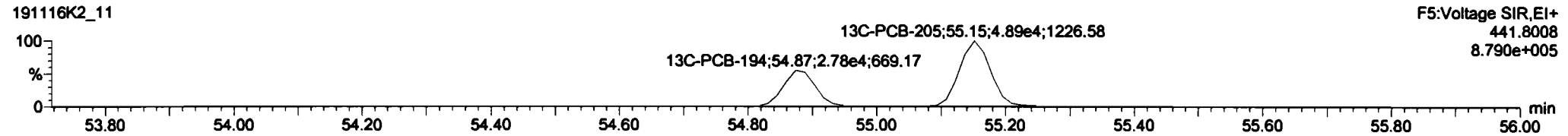
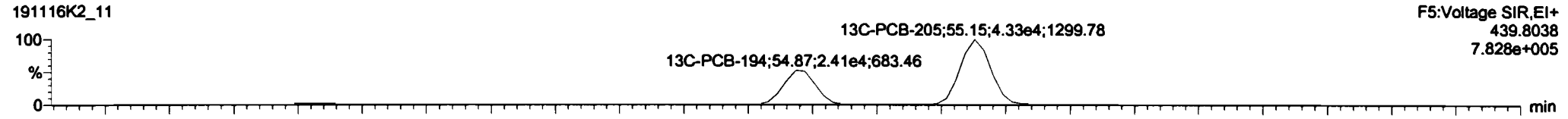
Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

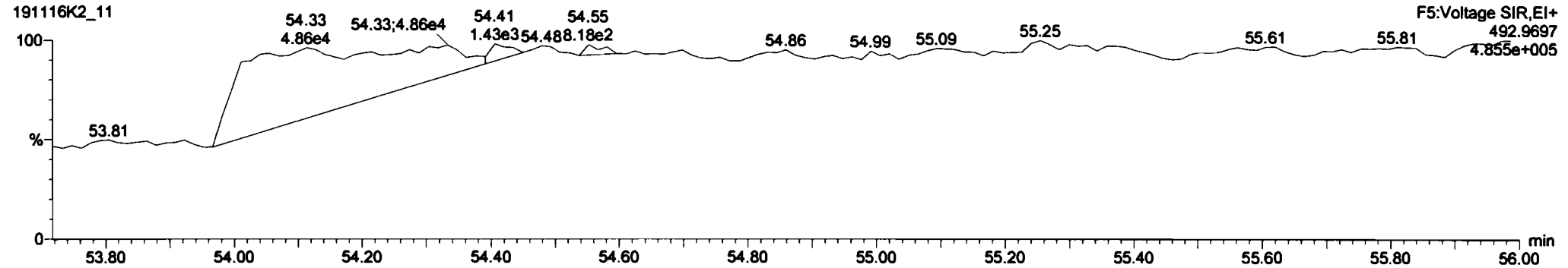
**PCB-195**



**13C-PCB-194**



**PFK5**

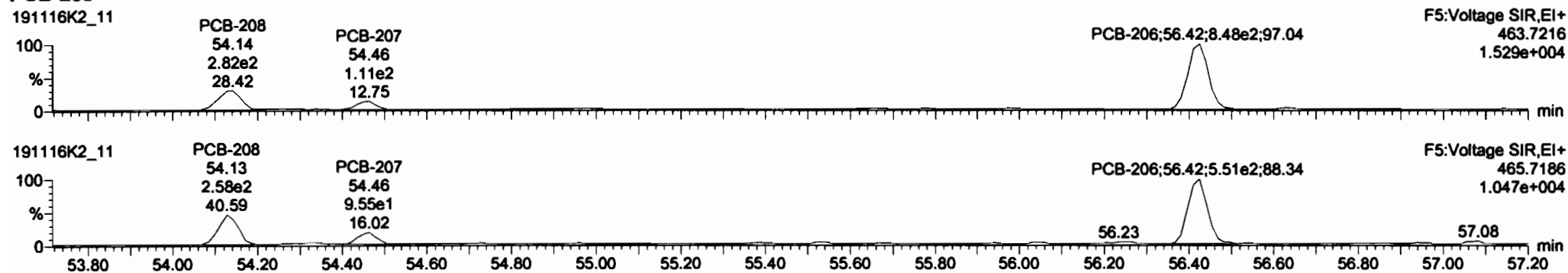


Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

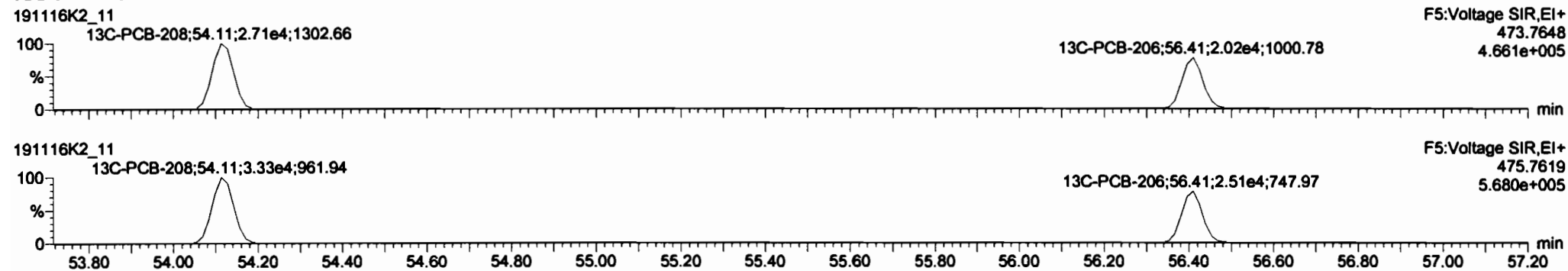
Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time  
Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

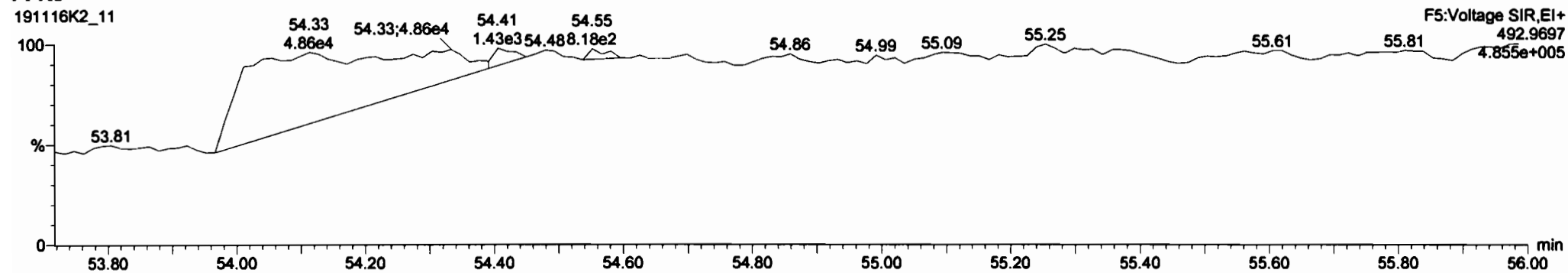
### PCB-208



### 13C-PCB-208



### PFK5



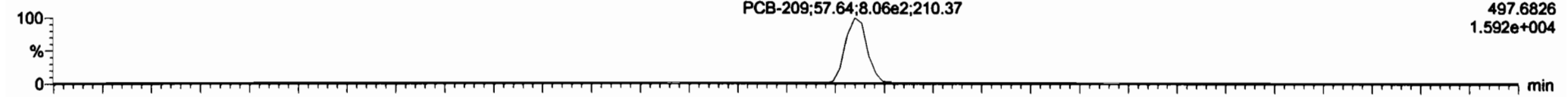
Dataset: U:\VG11.PRO\Results\191116K2\191116K2-11.qld

Last Altered: Monday, November 18, 2019 10:12:53 Pacific Standard Time  
Printed: Monday, November 18, 2019 10:15:06 Pacific Standard Time

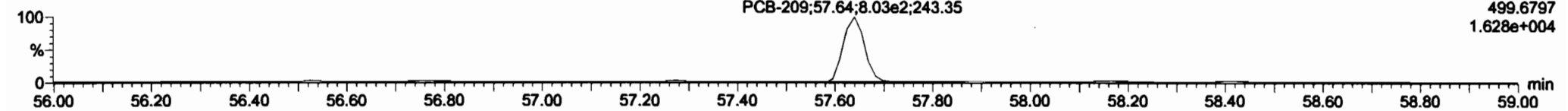
Name: 191116K2\_11, Date: 17-Nov-2019, Time: 14:14:12, ID: 1903655-06RE1@20X PDI-035SC-A-00-01-191010 1.61, Description: PDI-035SC-A-00-01-191010

**PCB-209**

191116K2\_11

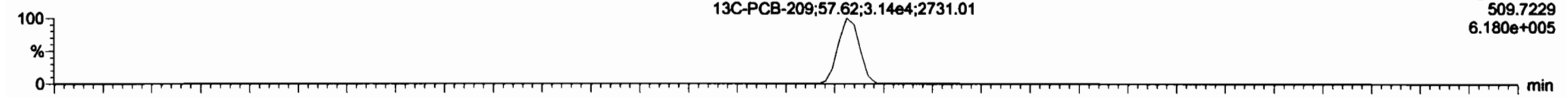


191116K2\_11

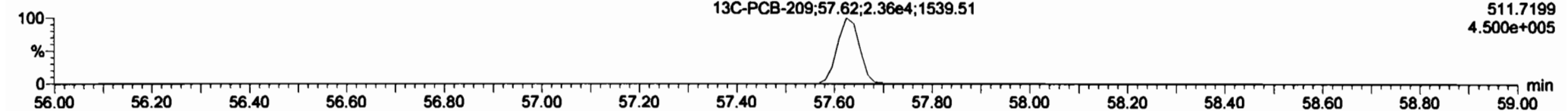


**13C-PCB-209**

191116K2\_11

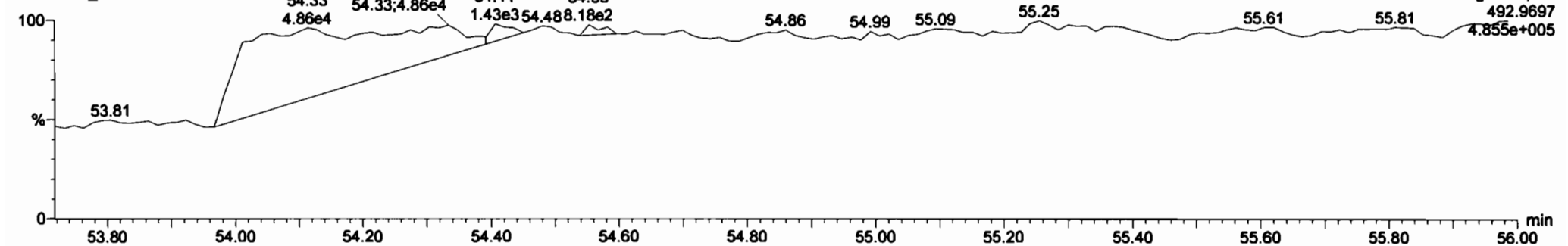


191116K2\_11



**PFK5**

191116K2\_11



Dataset: U:\VG11.PRO\Results\191106K1\191106K1-6.qld

Last Altered: Thursday, November 07, 2019 10:24:17 Pacific Standard Time

Printed: Thursday, November 07, 2019 10:24:39 Pacific Standard Time

GRB 11/07/19

CT 11/15/19

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-04-19.mdb 05 Nov 2019 14:32:48

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191106K1\_6, Date: 06-Nov-2019, Time: 18:01:14, ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1			NO	1.02	1.000	15.69		1.001		YES			0.309	
2	2 PCB-2			NO	1.01	1.000	18.13		0.988		YES			0.315	
3	3 PCB-3			NO	1.01	1.000	18.36		1.001		YES			0.316	
4	4 PCB-4/10			NO	1.28	1.000	19.79		1.004		YES			2.76	
5	5 PCB-7/9			NO	0.976	1.000	21.60		1.003		YES			2.37	
6	6 PCB-6			NO	1.02	1.000	22.26		1.033		YES			2.27	
7	7 PCB-5/8			NO	1.01	1.000	22.67		1.052		YES			2.29	
8	8 PCB-14			NO	1.03	1.000	23.81		0.952		YES			2.38	
9	9 PCB-11			NO	1.10	1.000	25.04		1.001		YES			2.24	
10	10 PCB-12/13			NO	1.04	1.000	25.47		1.018		YES			2.37	
11	11 PCB-15			NO	1.03	1.000	25.77		1.030		YES			2.39	
12	12 PCB-19			NO	0.934	1.000	24.00		1.001		YES			0.687	
13	13 PCB-30			NO	1.48	1.000	24.92		1.040		YES			0.433	
14	14 PCB-18			NO	0.693	1.000	25.66		0.951		YES			0.647	
15	15 PCB-17			NO	0.667	1.000	25.85		0.958		YES			0.673	
16	16 PCB-24/27			NO	0.915	1.000	26.47		0.981		YES			0.490	
17	17 PCB-16/32			NO	0.792	1.000	27.00		1.001		YES			0.566	
18	18 PCB-34			NO	0.987	1.000	27.80		0.959		YES			0.611	
19	19 PCB-23			NO	0.974	1.000	27.90		0.962		YES			0.619	
20	20 PCB-29			NO	0.953	1.000	28.13		0.970		YES			0.633	
21	21 PCB-26			NO	1.00	1.000	28.38		0.979		YES			0.603	
22	22 PCB-25			NO	0.978	1.000	28.53		0.984		YES			0.617	
23	23 PCB-31			NO	1.12	1.000	28.92		0.998		YES			0.537	
24	24 PCB-28			NO	1.11	1.000	29.01		1.001		YES			0.546	
25	25 PCB-20/21/33			NO	1.00	1.000	29.65		1.023		YES			0.601	
26	26 PCB-22			NO	1.03	1.000	30.14		1.039		YES			0.584	
27	27 PCB-36			NO	1.18	1.000	30.70		0.930		YES			0.569	
28	28 PCB-39			NO	1.08	1.000	31.19		0.945		YES			0.617	
29	29 PCB-38			NO	1.13	1.000	32.00		0.970		YES			0.593	
30	30 PCB-35			NO	1.13	1.000	32.55		0.987		YES			0.591	
31	31 PCB-37			NO	1.11	1.000	33.03		1.001		YES			0.605	
32	32 PCB-54			NO	0.996	1.000	27.86		1.001		YES			0.453	

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-6.qld

Last Altered: Thursday, November 07, 2019 10:24:17 Pacific Standard Time

Printed: Thursday, November 07, 2019 10:24:39 Pacific Standard Time

Name: 191106K1\_6, Date: 06-Nov-2019, Time: 18:01:14, ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50			NO	0.781	1.000	29.10		1.045		YES			0.577	
34	34 PCB-53			NO	0.955	1.000	29.71		0.943		YES			0.581	
35	35 PCB-51			NO	1.02	1.000	30.06		0.955		YES			0.542	
36	36 PCB-45			NO	0.808	1.000	30.49		0.969		YES			0.686	
37	37 PCB-46			NO	0.754	1.000	31.01		0.985		YES			0.736	
38	38 PCB-52/69			NO	1.09	1.000	31.52		1.001		YES			0.508	
39	39 PCB-73			NO	1.29	1.000	31.65		1.005		YES			0.430	
40	40 PCB-43/49			NO	0.940	1.000	31.81		1.010		YES			0.590	
41	41 PCB-47	3.24e2	0.63	YES	0.869	1.000	32.03	32.02	1.001	1.001	NO	1.908		0.633	1.691
42	42 PCB-48/75			NO	1.02	1.000	32.14		1.004		YES			0.537	
43	43 PCB-65			NO	1.11	1.000	32.41		1.013		YES			0.496	
44	44 PCB-62			NO	1.07	1.000	32.52		1.016		YES			0.516	
45	45 PCB-44			NO	0.761	1.000	32.86		1.027		YES			0.723	
46	46 PCB-42/59			NO	0.960	1.000	33.08		1.033		YES			0.573	
47	47 PCB-41/64/71/72			NO	1.08	1.000	33.70		1.053		YES			0.508	
48	48 PCB-68			NO	1.11	1.000	33.99		1.062		YES			0.496	
49	49 PCB-40			NO	0.577	1.000	34.21		1.069		YES			0.954	
50	50 PCB-57			NO	1.05	1.000	34.53		0.969		YES			0.429	
51	51 PCB-67			NO	0.993	1.000	34.86		0.978		YES			0.452	
52	52 PCB-58			NO	1.11	1.000	34.99		0.981		YES			0.404	
53	53 PCB-63			NO	0.962	1.000	35.14		0.986		YES			0.467	
54	54 PCB-74			NO	1.07	1.000	35.45		0.994		YES			0.421	
55	55 PCB-61/70			NO	0.986	1.000	35.67		1.000		YES			0.456	
56	56 PCB-76/66			NO	1.07	1.000	35.83		1.005		YES			0.421	
57	57 PCB-80			NO	1.08	1.000	36.10		1.001		YES			0.426	
58	58 PCB-55			NO	1.07	1.000	36.42		1.010		YES			0.433	
59	59 PCB-56/60			NO	0.934	1.000	36.96		1.024		YES			0.495	
60	60 PCB-79			NO	1.04	1.000	38.06		1.055		YES			0.442	
61	61 PCB-78			NO	1.03	1.000	38.78		0.987		YES			0.452	
62	62 PCB-81			NO	0.933	1.000	39.32		1.000		YES			0.500	
63	63 PCB-77			NO	1.03	1.000	39.93		1.000		YES			0.461	
64	64 PCB-104			NO	0.995	1.000	32.70		1.001		YES			0.632	
65	65 PCB-96			NO	0.996	1.000	34.02		1.041		YES			0.631	
66	66 PCB-103			NO	0.774	1.000	34.59		1.059		YES			0.812	
67	67 PCB-100			NO	0.778	1.000	34.97		1.070		YES			0.809	
68	68 PCB-94			NO	0.773	1.000	35.43		0.985		YES			0.947	



Dataset: U:\VG11.PRO\Results\191106K1\191106K1-6.qld

Last Altered: Thursday, November 07, 2019 10:24:17 Pacific Standard Time  
Printed: Thursday, November 07, 2019 10:24:39 Pacific Standard Time

Name: 191106K1\_6, Date: 06-Nov-2019, Time: 18:01:14, ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102			NO	1.01	1.000	35.90		0.999		YES			0.722	
70	70 PCB-93			NO	0.841	1.000	36.03		1.002		YES			0.871	
71	71 PCB-88/91			NO	0.890	1.000	36.38		1.012		YES			0.823	
72	72 PCB-121			NO	1.39	1.000	36.50		1.015		YES			0.528	
73	73 PCB-84/92			NO	0.879	1.000	37.33		0.990		YES			0.937	
74	74 PCB-89			NO	0.959	1.000	37.51		0.995		YES			0.858	
75	75 PCB-90/101			NO	0.944	1.000	37.72		1.000		YES			0.872	
76	76 PCB-113			NO	1.23	1.000	37.97		1.007		YES			0.669	
77	77 PCB-99			NO	1.12	1.000	38.07		1.010		YES			0.736	
78	78 PCB-119			NO	1.47	1.000	38.53		0.987		YES			0.654	
79	79 PCB-108/112			NO	1.25	1.000	38.69		0.991		YES			0.770	
80	80 PCB-83			NO	1.55	1.000	38.84		0.995		YES			0.622	
81	81 PCB-97			NO	1.07	1.000	39.08		1.001		YES			0.895	
82	82 PCB-86			NO	0.996	1.000	39.23		1.005		YES			0.967	
83	83 PCB-87/117/125			NO	1.33	1.000	39.34		1.008		YES			0.722	
84	84 PCB-111/115			NO	1.60	1.000	39.51		1.012		YES			0.601	
85	85 PCB-85/116			NO	1.22	1.000	39.63		1.015		YES			0.792	
86	86 PCB-120			NO	1.68	1.000	39.90		1.022		YES			0.573	
87	87 PCB-110			NO	1.49	1.000	40.04		1.026		YES			0.648	
88	88 PCB-82			NO	0.674	1.000	40.68		0.976		YES			1.10	
89	89 PCB-124			NO	1.16	1.000	41.40		0.993		YES			0.639	
90	90 PCB-107/109			NO	1.17	1.000	41.55		0.996		YES			0.638	
91	91 PCB-123			NO	1.04	1.000	41.72		1.000		YES			0.714	
92	92 PCB-106/118			NO	1.07	1.000	41.92		1.001		YES			0.680	
93	93 PCB-114			NO	1.16	1.000	42.58		1.000		YES			0.512	
94	94 PCB-122			NO	0.973	1.000	42.71		1.003		YES			0.612	
95	95 PCB-105			NO	1.10	1.000	43.47		1.000		YES			0.525	
96	96 PCB-127			NO	1.11	1.000	43.83		1.000		YES			0.479	
97	97 PCB-126			NO	1.21	1.000	45.78		1.000		YES			0.522	
98	98 PCB-155			NO	0.874	1.000	37.25		1.000		YES			0.430	
99	99 PCB-150			NO	0.881	1.000	38.58		1.036		YES			0.427	
100	1... PCB-152			NO	1.00	1.000	39.09		1.050		YES			0.374	
101	1... PCB-145			NO	1.00	1.000	39.55		1.062		YES			0.376	
102	1... PCB-136			NO	0.843	1.000	39.88		1.071		YES			0.446	
103	1... PCB-148			NO	0.693	1.000	40.02		1.075		YES			0.542	
104	1... PCB-154			NO	0.724	1.000	40.52		1.088		YES			0.519	

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	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151			NO	0.632	1.000	41.19		1.106		YES			0.595	
106	1... PCB-135			NO	0.716	1.000	41.36		1.111		YES			0.525	
107	1... PCB-144			NO	0.667	1.000	41.46		1.114		YES			0.564	
108	1... PCB-147			NO	0.661	1.000	41.61		1.118		YES			0.569	
109	1... PCB-139/149			NO	0.738	1.000	41.95		1.127		YES			0.509	
110	1... PCB-140			NO	0.627	1.000	42.14		1.132		YES			0.599	
111	1... PCB-134/143			NO	0.733	1.000	42.53		0.975		YES			0.600	
112	1... PCB-131/133			NO	0.790	1.000	42.81		0.982		YES			0.557	
113	1... PCB-142			NO	0.708	1.000	42.97		0.985		YES			0.622	
114	1... PCB-146/165			NO	0.959	1.000	43.22		0.991		YES			0.459	
115	1... PCB-132/161			NO	0.974	1.000	43.46		0.996		YES			0.452	
116	1... PCB-153			NO	1.01	1.000	43.64		1.000		YES			0.435	
117	1... PCB-168			NO	1.02	1.000	43.87		1.006		YES			0.432	
118	1... PCB-141			NO	0.967	1.000	44.40		1.000		YES			0.540	
119	1... PCB-137			NO	0.987	1.000	44.78		1.009		YES			0.529	
120	1... PCB-130			NO	0.840	1.000	44.89		1.012		YES			0.622	
121	1... PCB-138/163/164			NO	1.23	1.000	45.29		1.001		YES			0.427	
122	1... PCB-158/160			NO	1.18	1.000	45.54		1.006		YES			0.445	
123	1... PCB-129			NO	0.819	1.000	45.78		1.012		YES			0.640	
124	1... PCB-166			NO	1.07	1.000	46.26		0.993		YES			0.434	
125	1... PCB-159			NO	1.12	1.000	46.60		1.000		YES			0.414	
126	1... PCB-128/162			NO	0.851	1.000	46.89		1.007		YES			0.545	
127	1... PCB-167			NO	1.04	1.000	47.30		1.000		YES			0.470	
128	1... PCB-156			NO	1.06	1.000	48.64		1.000		YES			0.503	
129	1... PCB-157			NO	0.978	1.000	48.93		1.001		YES			0.542	
130	1... PCB-169			NO	1.11	1.000	51.18		1.000		YES			0.494	
131	1... PCB-188			NO	1.19	1.000	43.28		1.001		YES			0.351	
132	1... PCB-184			NO	1.17	1.000	43.73		1.011		YES			0.359	
133	1... PCB-179			NO	1.18	1.000	44.54		1.030		YES			0.356	
134	1... PCB-176			NO	1.16	1.000	45.01		1.041		YES			0.361	
135	1... PCB-186			NO	1.22	1.000	45.63		1.055		YES			0.343	
136	1... PCB-178			NO	0.830	1.000	46.14		1.067		YES			0.504	
137	1... PCB-175			NO	0.849	1.000	46.50		1.075		YES			0.493	
138	1... PCB-182/187			NO	0.960	1.000	46.70		1.080		YES			0.436	
139	1... PCB-183			NO	0.957	1.000	47.03		1.088		YES			0.437	
140	1... PCB-185			NO	1.32	1.000	47.70		0.955		YES			0.591	

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174			NO	1.22	1.000	48.07		0.962		YES			0.639	
142	1... PCB-181			NO	1.41	1.000	48.17		0.964		YES			0.551	
143	1... PCB-177			NO	1.24	1.000	48.35		0.968		YES			0.628	
144	1... PCB-171			NO	1.24	1.000	48.64		0.974		YES			0.627	
145	1... PCB-173			NO	1.14	1.000	49.08		0.983		YES			0.683	
146	1... PCB-172			NO	1.31	1.000	49.57		0.992		YES			0.596	
147	1... PCB-192			NO	1.70	1.000	49.76		0.996		YES			0.458	
148	1... PCB-180			NO	1.32	1.000	49.97		1.000		YES			0.590	
149	1... PCB-193			NO	1.54	1.000	50.20		1.005		YES			0.506	
150	1... PCB-191			NO	1.57	1.000	50.44		1.010		YES			0.495	
151	1... PCB-170			NO	1.36	1.000	51.62		1.000		YES			0.628	
152	1... PCB-190			NO	1.84	1.000	51.80		1.004		YES			0.464	
153	1... PCB-189			NO	1.33	1.000	53.31		1.000		YES			0.435	
154	1... PCB-202			NO	1.02	1.000	48.87		1.001		YES			0.333	
155	1... PCB-201			NO	0.915	1.000	49.36		1.011		YES			0.372	
156	1... PCB-204			NO	0.979	1.000	49.51		1.014		YES			0.348	
157	1... PCB-197			NO	0.979	1.000	49.83		1.020		YES			0.348	
158	1... PCB-200			NO	0.954	1.000	50.78		1.040		YES			0.357	
159	1... PCB-198			NO	0.748	1.000	52.30		1.071		YES			0.455	
160	1... PCB-199			NO	0.706	1.000	52.41		1.073		YES			0.483	
161	1... PCB-196/203			NO	0.785	1.000	52.87		1.083		YES			0.434	
162	1... PCB-195			NO	1.03	1.000	53.98		0.984		YES			0.360	
163	1... PCB-194	1.26e2	0.34	YES	1.16	1.000	54.90	54.90	1.000	1.000	NO	0.9862		0.108	0.5175
164	1... PCB-205			NO	1.40	1.000	55.17		1.005		YES			0.266	
165	1... PCB-208	5.22e1	0.66	YES	0.934	1.000	54.16	54.14	1.000	1.000	NO	0.3973		0.0743	0.2764
166	1... PCB-207			NO	0.912	1.000	54.48		1.006		YES			0.151	
167	1... PCB-206			NO	0.987	1.000	56.44		1.000		YES			0.199	
168	1... PCB-209	5.01e1	3.54	YES	0.943	1.000	57.64	57.62	1.000	1.000	NO	0.4895		0.0668	0.2338
169	1... 13C-PCB-1	5.21e5	3.57	NO	1.08	1.000	15.68	15.68	0.609	0.609	NO	1175	58.7	2.25	
170	1... 13C-PCB-3	5.53e5	3.12	NO	1.09	1.000	18.34	18.35	0.712	0.713	NO	1231	61.6	2.22	
171	1... 13C-PCB-4	3.49e5	1.55	NO	0.640	1.000	19.70	19.71	0.765	0.766	NO	1324	66.2	1.03	
172	1... 13C-PCB-9	5.48e5	1.56	NO	0.995	1.000	21.54	21.54	0.837	0.837	NO	1337	66.8	0.663	
173	1... 13C-PCB-11	5.16e5	1.58	NO	0.971	1.000	25.02	25.02	0.972	0.972	NO	1291	64.6	0.680	
174	1... 13C-PCB-19	3.51e5	1.00	NO	0.637	1.000	23.96	23.96	0.931	0.931	NO	1338	66.9	9.90	
175	1... 13C-PCB-32	5.29e5	0.97	NO	0.910	1.000	26.98	26.98	1.048	1.048	NO	1411	70.6	6.93	
176	1... 13C-PCB-28	5.40e5	1.07	NO	1.07	1.000	28.97	28.99	1.003	1.004	NO	1462	73.1	8.19	

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Name: 191106K1\_6, Date: 06-Nov-2019, Time: 18:01:14, ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	4.78e5	1.01	NO	0.959	1.000	32.97	32.99	1.141	1.142	NO	1444	72.2	9.13	
178	1... 13C-PCB-54	4.76e5	0.76	NO	1.10	1.000	27.84	27.84	0.754	0.754	NO	1317	65.8	2.02	
179	1... 13C-PCB-52	3.85e5	0.75	NO	0.844	1.000	31.50	31.49	0.853	0.852	NO	1384	69.2	2.63	
180	1... 13C-PCB-47	3.91e5	0.73	NO	0.893	1.000	32.02	32.01	0.867	0.867	NO	1329	66.4	2.49	
181	1... 13C-PCB-70	4.74e5	0.77	NO	1.01	1.000	35.65	35.65	0.965	0.965	NO	1427	71.4	2.20	
182	1... 13C-PCB-80	4.83e5	0.80	NO	1.05	1.000	36.08	36.08	0.977	0.977	NO	1403	70.1	2.12	
183	1... 13C-PCB-81	4.82e5	0.78	NO	0.985	1.000	39.30	39.30	1.064	1.064	NO	1485	74.3	2.26	
184	1... 13C-PCB-77	4.64e5	0.78	NO	0.958	1.000	39.91	39.91	1.080	1.081	NO	1469	73.5	2.32	
185	1... 13C-PCB-104	3.76e5	1.57	NO	1.10	1.000	32.69	32.68	0.827	0.827	NO	1441	72.0	0.893	
186	1... 13C-PCB-95	3.20e5	1.63	NO	0.852	1.000	35.97	35.95	0.910	0.910	NO	1579	79.0	1.15	
187	1... 13C-PCB-101	2.87e5	1.61	NO	0.814	1.000	37.72	37.70	0.955	0.954	NO	1487	74.3	1.20	
188	1... 13C-PCB-97	2.55e5	1.63	NO	0.709	1.000	39.05	39.04	0.989	0.988	NO	1515	75.8	1.38	
189	1... 13C-PCB-123	3.14e5	1.56	NO	0.922	1.000	41.69	41.70	1.055	1.056	NO	1432	71.6	1.06	
190	1... 13C-PCB-118	3.28e5	1.65	NO	0.975	1.000	41.88	41.89	1.060	1.060	NO	1417	70.8	1.00	
191	1... 13C-PCB-114	3.78e5	1.59	NO	1.52	1.000	42.56	42.56	0.908	0.908	NO	1443	72.2	1.18	
192	1... 13C-PCB-105	3.93e5	1.57	NO	1.58	1.000	43.45	43.45	0.927	0.927	NO	1440	72.0	1.13	
193	1... 13C-PCB-127	4.18e5	1.61	NO	1.62	1.000	43.81	43.81	0.935	0.935	NO	1495	74.8	1.11	
194	1... 13C-PCB-126	3.67e5	1.61	NO	1.45	1.000	45.76	45.76	0.976	0.977	NO	1476	73.8	1.24	
195	1... 13C-PCB-155	2.64e5	1.30	NO	1.03	1.000	37.23	37.24	0.942	0.943	NO	1081	54.0	0.303	
196	1... 13C-PCB-153	3.59e5	1.22	NO	1.42	1.000	43.62	43.62	0.931	0.931	NO	1465	73.3	1.22	
197	1... 13C-PCB-141	3.10e5	1.30	NO	1.14	1.000	44.40	44.38	0.947	0.947	NO	1575	78.8	1.52	
198	1... 13C-PCB-138	3.08e5	1.25	NO	1.18	1.000	45.25	45.25	0.966	0.966	NO	1517	75.9	1.47	
199	1... 13C-PCB-159	3.59e5	1.27	NO	1.43	1.000	46.60	46.58	0.994	0.994	NO	1454	72.7	1.21	
200	2... 13C-PCB-167	3.42e5	1.31	NO	1.42	1.000	47.30	47.28	1.009	1.009	NO	1395	69.7	1.22	
201	2... 13C-PCB-156	3.13e5	1.31	NO	1.40	1.000	48.62	48.62	1.038	1.038	NO	1299	65.0	1.24	
202	2... 13C-PCB-157	3.10e5	1.26	NO	1.41	1.000	48.91	48.89	1.044	1.043	NO	1280	64.0	1.24	
203	2... 13C-PCB-169	3.16e5	1.25	NO	1.35	1.000	51.18	51.16	1.092	1.092	NO	1361	68.1	1.29	
204	2... 13C-PCB-188	3.01e5	0.45	NO	1.46	1.000	43.22	43.24	0.926	0.927	NO	1530	76.5	1.19	
205	2... 13C-PCB-180	1.63e5	0.46	NO	0.932	1.000	49.93	49.95	1.070	1.070	NO	1300	65.0	1.87	
206	2... 13C-PCB-170	1.50e5	0.45	NO	0.796	1.000	51.60	51.60	1.106	1.106	NO	1401	70.0	2.20	
207	2... 13C-PCB-189	1.94e5	0.44	NO	1.09	1.000	53.28	53.28	1.142	1.142	NO	1322	66.1	1.60	
208	2... 13C-PCB-202	1.97e5	0.87	NO	1.45	1.000	48.83	48.83	1.046	1.046	NO	1009	50.5	0.647	
209	2... 13C-PCB-194	2.26e5	0.90	NO	0.714	1.000	54.90	54.89	0.995	0.995	NO	1497	74.8	1.12	
210	2... 13C-PCB-208	2.81e5	0.81	NO	0.896	1.000	54.14	54.14	0.982	0.981	NO	1481	74.1	0.662	
211	2... 13C-PCB-206	1.90e5	0.80	NO	0.653	1.000	56.42	56.42	1.023	1.023	NO	1373	68.7	0.909	
212	2... 13C-PCB-209	2.17e5	1.16	NO	0.806	1.000	57.65	57.64	1.045	1.045	NO	1272	63.6	0.165	

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	8.24e5	1.56	NO	1.00	1.000	25.74	25.74	1.000	0.000	NO	2000	100	0.660	
214	2... 13C-PCB-31	6.91e5	1.01	NO	1.00	1.000	28.90	28.88	1.000	0.000	NO	2000	100	8.76	
215	2... 13C-PCB-60	6.59e5	0.78	NO	1.00	1.000	36.94	36.94	1.000	0.000	NO	2000	100	2.22	
216	2... 13C-PCB-111	4.75e5	1.58	NO	1.00	1.000	39.51	39.51	1.000	0.000	NO	2000	100	0.980	
217	2... 13C-PCB-128	3.44e5	1.25	NO	1.00	1.000	46.86	46.86	1.000	0.000	NO	2000	100	1.74	
218	2... 13C-PCB-182	2.69e5	0.48	NO	1.00	1.000	46.69	46.67	0.000	0.000	NO	2000	100	1.75	
219	2... 13C-PCB-205	4.24e5	0.92	NO	1.00	1.000	55.16	55.16	1.000	0.000	NO	2000	100	0.800	
220	2... 13C-PCB-79	5.54e5	0.73	NO	1.03	1.000	38.07	38.03	1.031	1.030	NO	1629	81.4	2.15	
221	2... 13C-PCB-178	2.16e5	0.43	NO	0.875	1.000	46.12	46.12	0.988	0.988	NO	1432	71.6	1.55	
222	2... 13C-PCB-79	5.54e5	0.73	NO	1.05	1.000	38.02	38.03	0.967	0.968	NO	2198	110	2.95	
223	2... 13C-PCB-178	2.16e5	0.43	NO	0.975	1.000	46.13	46.12	0.924	0.923	NO	2714	136	2.97	
224	2... Total Mono-PCBs				1.01	1.000	0.00		0.000		NO			0.940	0.316 -
225	2... Total Di-PCBs				1.06	1.000	0.00		0.000		NO			19.1	2.76 -
226	2... 2nd Function Tri-PCBs				0.914	1.000	0.00		0.000		NO			2.50	
227	2... 3rd Function Tri-PCBs				1.06	1.000	0.00		0.000		NO			8.33	0.687 -
228	2... Total Tetra-PCBs				0.986	1.000	0.00		0.000		NO	0.0000		16.0	0.954 1.691 -
229	2... 3rd Function Penta-PCBs				1.12	1.000	0.00		0.000		NO			21.9	
230	2... 4th Function Penta-PCBs				1.11	1.000	0.00		0.000		NO			2.65	1.10
231	2... 3rd Function Hexa-PCBs				0.774	1.000	0.00		0.000		NO			6.48	
232	2... 4th Function Hexa-PCBs				0.972	1.000	0.00		0.000		NO			10.2	0.622
233	2... Total Hepta-PCBs				1.26	1.000	0.00		0.000		NO			11.5	0.683
234	2... 4th Function Octa-PCBs				0.886	1.000	0.00		0.000		NO			3.12	
235	2... 5th Function Octa-PCBs				1.20	1.000	0.00		0.000		NO	0.0000		6.793	0.483 0.5175
236	2... Total Nona-PCBs				0.945	1.000	0.00		0.000		NO	0.0000		6.425	0.199 0.2764
237	2... Deca-CB				0.943	1.000	0.00		0.000		NO	0.0000		0.0668	0.2338
238	2... Total PCBs														

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Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-04-19.mdb 05 Nov 2019 14:32:48

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

Total Mono-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc..	EMPC	DL
1												

Total Di-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc..	EMPC	DL
1												

2nd Function Tri-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc..	EMPC	DL
1												

3rd Function Tri-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc..	EMPC	DL
1												

Total Tetra-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc..	EMPC	DL	
1	PCB-47	32.03	32.02	1.625e3	2.580e3	1.250e2	1.992e2	0.63	YES	3.242e2	0.00000	1.6910	0.633

3rd Function Penta-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc..	EMPC	DL
1												

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-6.qld

Last Altered: Thursday, November 07, 2019 10:24:17 Pacific Standard Time

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ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

**4th Function Penta-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**3rd Function Hexa-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**4th Function Hexa-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**Total Hepta-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**4th Function Octa-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**5th Function Octa-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	PCB-194	54.90	54.90	7.220e2	1.602e3	3.188e1	9.452e1	0.34	YES	1.264e2	0.00000	0.51751	0.168

**Total Nona-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	PCB-208	54.16	54.14	4.490e2	6.350e2	2.079e1	3.140e1	0.66	YES	5.219e1	0.00000	0.27639	0.0743

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-6.qld

Last Altered: Thursday, November 07, 2019 10:24:17 Pacific Standard Time

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ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

Deca-CB

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-209	57.64	57.62	7.250e2	2.450e2	3.907e1	1.103e1	3.54	YES	5.010e1	0.00000	0.23381	0.0668

Total PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Total Mono-Isotopes

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 13C-PCB-1	15.68	15.68	7.425e6	1.985e6	4.071e5	1.141e5	3.57	NO	5.212e5	1174.8		2.25
2 13C-PCB-3	18.34	18.35	7.141e6	2.253e6	4.191e5	1.341e5	3.12	NO	5.532e5	1231.5		2.22

Total Di-Isotopes

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 13C-PCB-4	19.70	19.71	3.502e6	2.306e6	2.122e5	1.367e5	1.55	NO	3.489e5	1324.2		1.03
2 13C-PCB-9	21.54	21.54	5.339e6	3.448e6	3.336e5	2.143e5	1.56	NO	5.478e5	1336.6		0.663
3 13C-PCB-11	25.02	25.02	5.047e6	3.264e6	3.161e5	2.004e5	1.58	NO	5.165e5	1291.1		0.680
4 13C-PCB-15	25.74	25.74	7.728e6	4.947e6	5.024e5	3.212e5	1.56	NO	8.236e5	2000.0		0.660

2nd Function Tri-Isotopes

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 13C-PCB-19	23.96	23.96	2.824e6	2.849e6	1.753e5	1.759e5	1.00	NO	3.512e5	1338.3		9.90
2 13C-PCB-32	26.98	26.98	3.990e6	4.154e6	2.608e5	2.679e5	0.97	NO	5.287e5	1411.0		6.93

3rd Function Tri-Isotopes

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 13C-PCB-31	28.90	28.88	4.758e6	4.741e6	3.472e5	3.434e5	1.01	NO	6.906e5	2000.0		8.76
2 13C-PCB-28	28.97	28.99	3.565e6	3.342e6	2.789e5	2.610e5	1.07	NO	5.399e5	1462.4		8.19
3 13C-PCB-37	32.97	32.99	3.120e6	3.082e6	2.401e5	2.383e5	1.01	NO	4.784e5	1443.9		9.13



Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-6.qld

Last Altered: Thursday, November 07, 2019 10:24:17 Pacific Standard Time

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ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

Tetra-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-54	27.84	27.84	2.683e6	3.550e6	2.050e5	2.714e5	0.76	NO	4.764e5	1316.5		2.02
2	13C-PCB-52	31.50	31.49	2.176e6	2.901e6	1.653e5	2.196e5	0.75	NO	3.849e5	1383.7		2.63
3	13C-PCB-47	32.02	32.01	2.156e6	2.993e6	1.651e5	2.260e5	0.73	NO	3.911e5	1328.7		2.49
4	13C-PCB-70	35.65	35.65	2.730e6	3.537e6	2.068e5	2.670e5	0.77	NO	4.738e5	1427.2		2.20
5	13C-PCB-80	36.08	36.08	2.706e6	3.498e6	2.152e5	2.682e5	0.80	NO	4.834e5	1402.9		2.12
6	13C-PCB-60	36.94	36.94	3.652e6	4.700e6	2.882e5	3.707e5	0.78	NO	6.590e5	2000.0		2.22
7	13C-PCB-79	38.07	38.03	3.012e6	4.115e6	2.337e5	3.202e5	0.73	NO	5.539e5	1629.0		2.15
8	13C-PCB-81	39.30	39.30	2.639e6	3.379e6	2.112e5	2.709e5	0.78	NO	4.820e5	1485.2		2.26
9	13C-PCB-77	39.91	39.91	2.589e6	3.237e6	2.036e5	2.604e5	0.78	NO	4.639e5	1469.2		2.32

3rd Function Penta-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-104	32.69	32.68	3.007e6	1.901e6	2.292e5	1.464e5	1.57	NO	3.756e5	1440.7		0.893
2	13C-PCB-95	35.97	35.95	2.620e6	1.621e6	1.981e5	1.218e5	1.63	NO	3.198e5	1579.4		1.15
3	13C-PCB-101	37.72	37.70	2.322e6	1.423e6	1.774e5	1.101e5	1.61	NO	2.875e5	1486.6		1.20
4	13C-PCB-97	39.05	39.04	1.996e6	1.204e6	1.583e5	9.710e4	1.63	NO	2.554e5	1515.2		1.38
5	13C-PCB-111	39.51	39.51	3.763e6	2.375e6	2.914e5	1.839e5	1.58	NO	4.753e5	2000.0		0.980
6	13C-PCB-123	41.69	41.70	2.537e6	1.613e6	1.910e5	1.226e5	1.56	NO	3.136e5	1431.6		1.06
7	13C-PCB-118	41.88	41.89	2.652e6	1.589e6	2.045e5	1.239e5	1.65	NO	3.283e5	1416.9		1.00

4th Function Penta-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-114	42.56	42.56	2.998e6	1.889e6	2.320e5	1.457e5	1.59	NO	3.777e5	1443.3		1.18
2	13C-PCB-105	43.45	43.45	3.069e6	1.955e6	2.400e5	1.528e5	1.57	NO	3.928e5	1440.2		1.13
3	13C-PCB-127	43.81	43.81	3.378e6	2.082e6	2.577e5	1.600e5	1.61	NO	4.177e5	1495.4		1.11
4	13C-PCB-126	45.76	45.76	2.826e6	1.759e6	2.264e5	1.410e5	1.61	NO	3.674e5	1476.0		1.24

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-6.qld

Last Altered: Thursday, November 07, 2019 10:24:17 Pacific Standard Time

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ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

4th Function Hexa-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-153	43.62	43.62	2.588e6	2.129e6	1.976e5	1.617e5	1.22	NO	3.593e5	1465.1		1.22
2	13C-PCB-141	44.40	44.38	2.238e6	1.714e6	1.750e5	1.350e5	1.30	NO	3.100e5	1575.3		1.52
3	13C-PCB-138	45.25	45.25	2.194e6	1.769e6	1.711e5	1.372e5	1.25	NO	3.084e5	1517.2		1.47
4	13C-PCB-159	46.60	46.58	2.496e6	1.984e6	2.004e5	1.584e5	1.27	NO	3.589e5	1453.8		1.21
5	13C-PCB-128	46.86	46.86	2.457e6	1.960e6	1.911e5	1.534e5	1.25	NO	3.445e5	2000.0		1.74
6	13C-PCB-167	47.30	47.28	2.399e6	1.828e6	1.943e5	1.478e5	1.31	NO	3.421e5	1394.9		1.22
7	13C-PCB-156	48.62	48.62	2.205e6	1.684e6	1.771e5	1.356e5	1.31	NO	3.127e5	1299.3		1.24
8	13C-PCB-157	48.91	48.89	2.180e6	1.706e6	1.732e5	1.370e5	1.26	NO	3.101e5	1280.0		1.24
9	13C-PCB-169	51.18	51.16	2.109e6	1.671e6	1.756e5	1.400e5	1.25	NO	3.156e5	1361.3		1.29

5th Function Octa-Isotopes

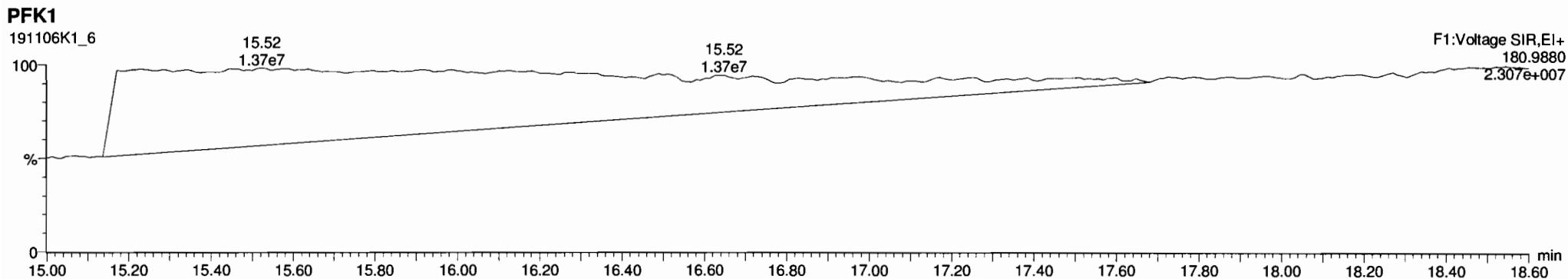
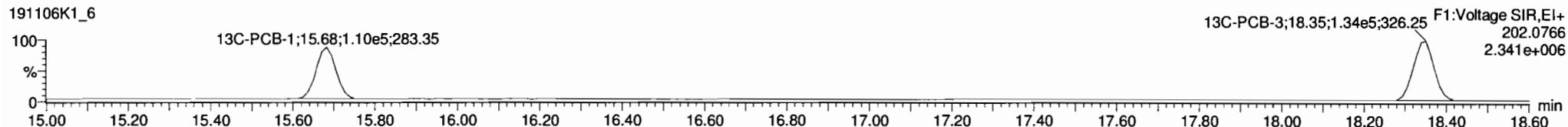
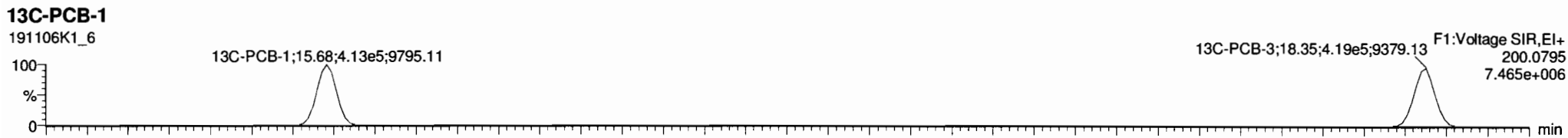
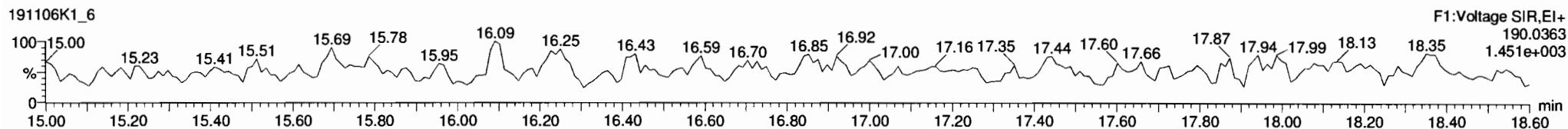
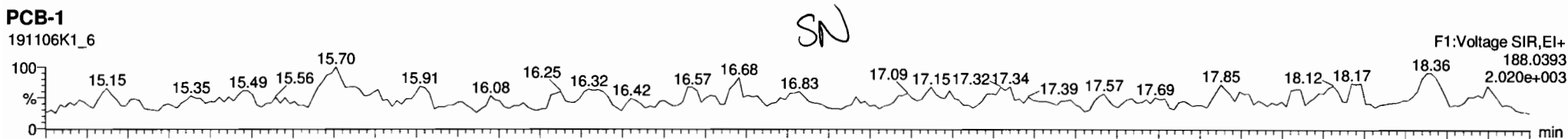
	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-194	54.90	54.89	1.966e6	2.207e6	1.075e5	1.189e5	0.90	NO	2.263e5	1496.9		1.12
2	13C-PCB-205	55.16	55.16	3.728e6	4.026e6	2.030e5	2.208e5	0.92	NO	4.238e5	2000.0		0.800

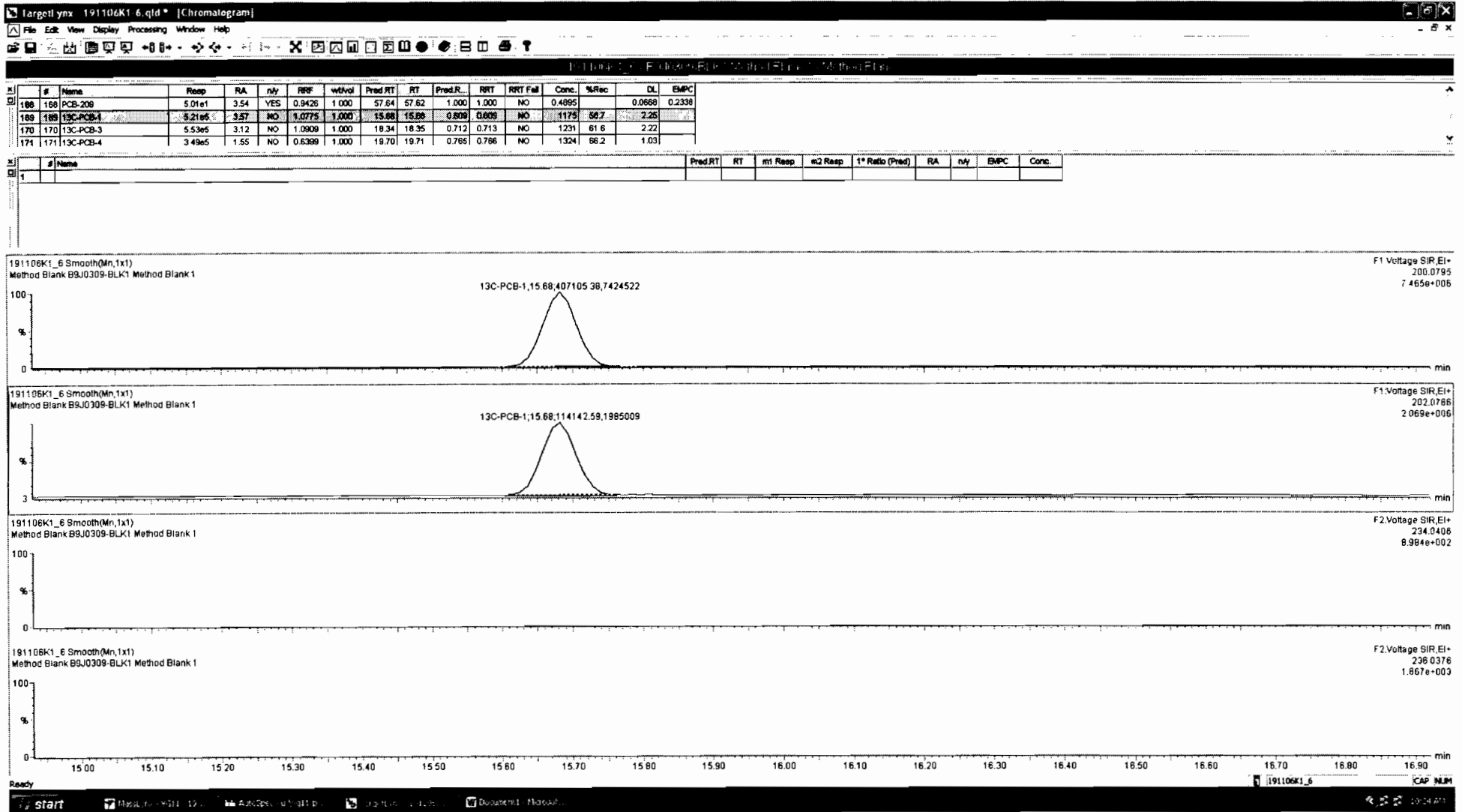
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Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

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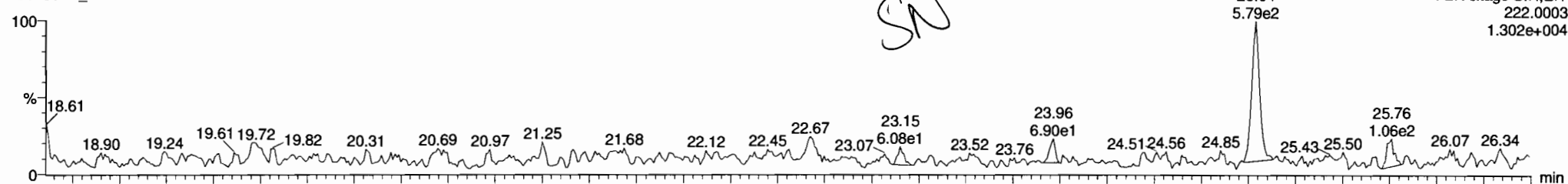
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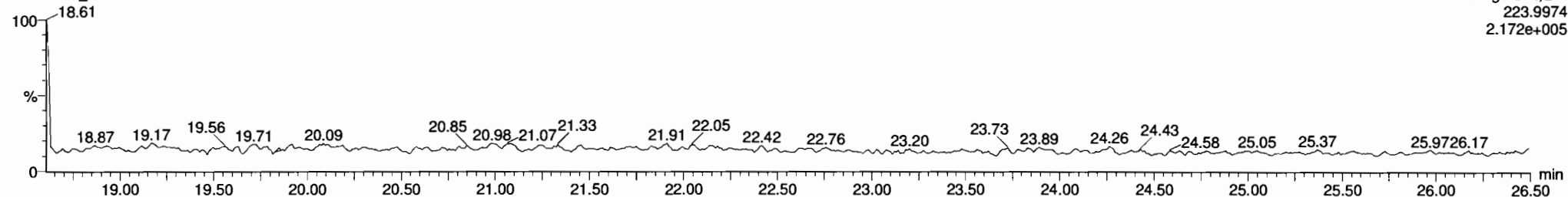
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PCB-4/10

191106K1\_6

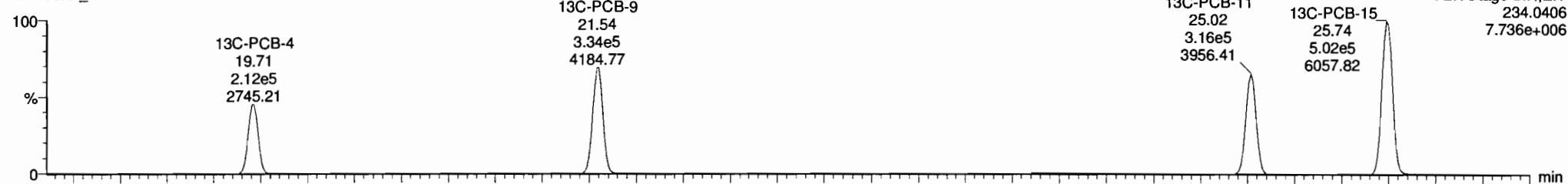


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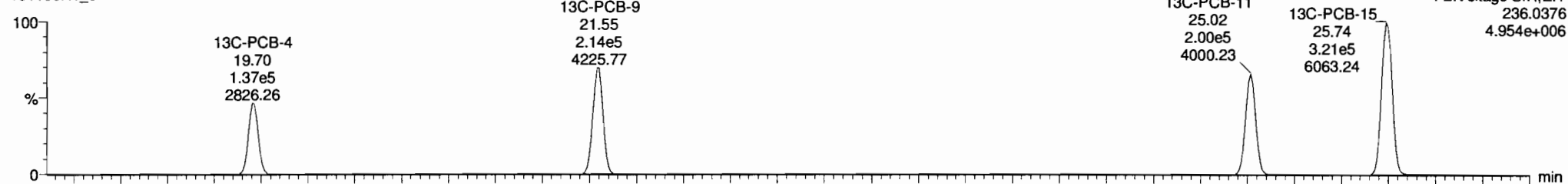


13C-PCB-4

191106K1\_6



191106K1\_6

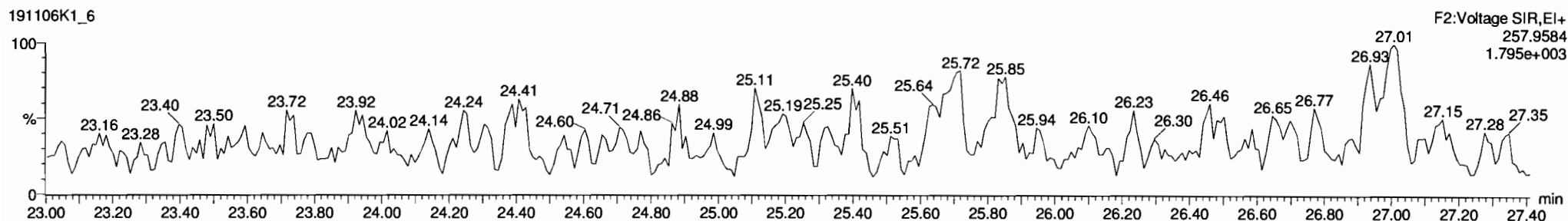
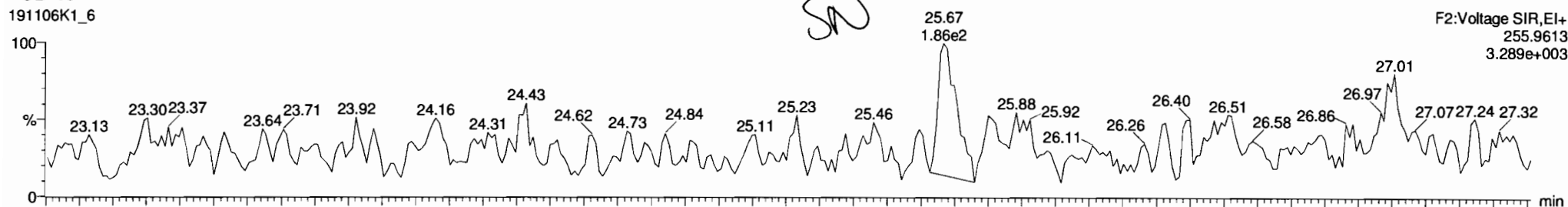


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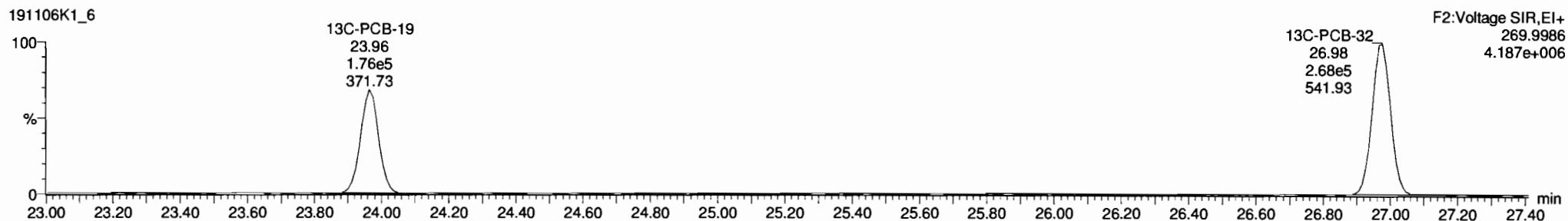
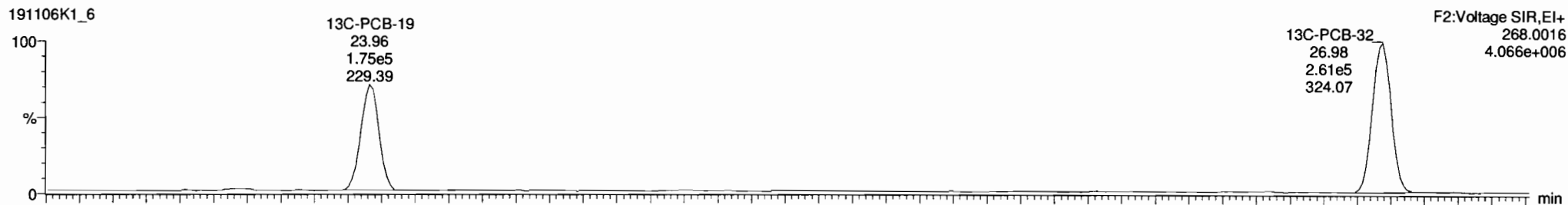
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PCB-19



13C-PCB-19

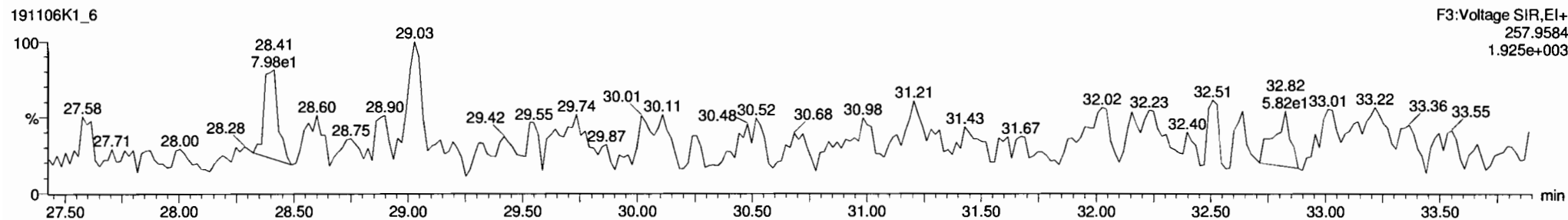
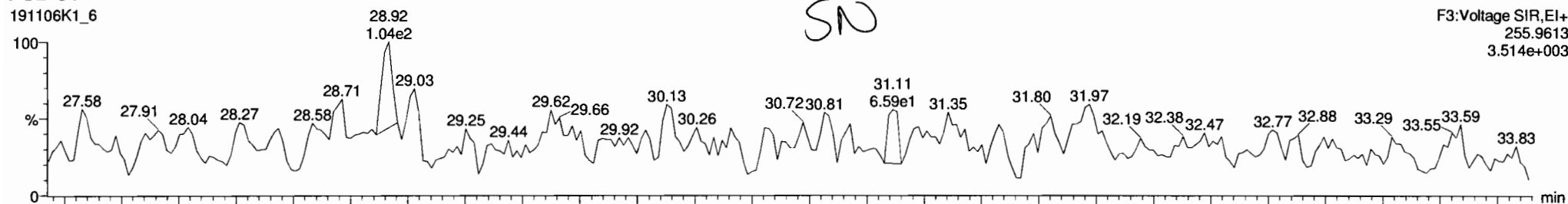


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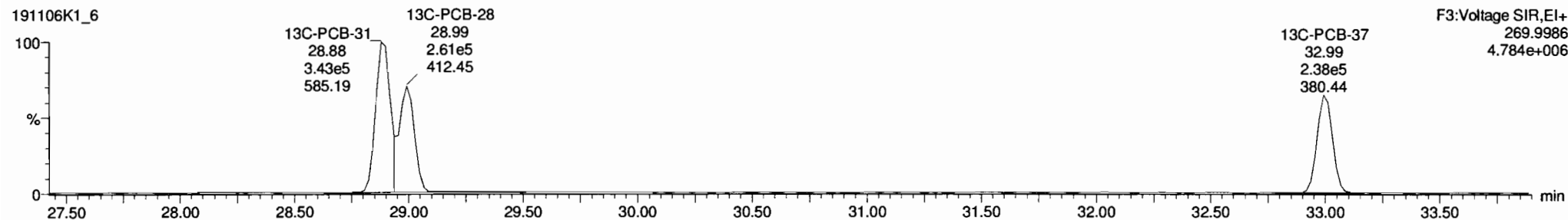
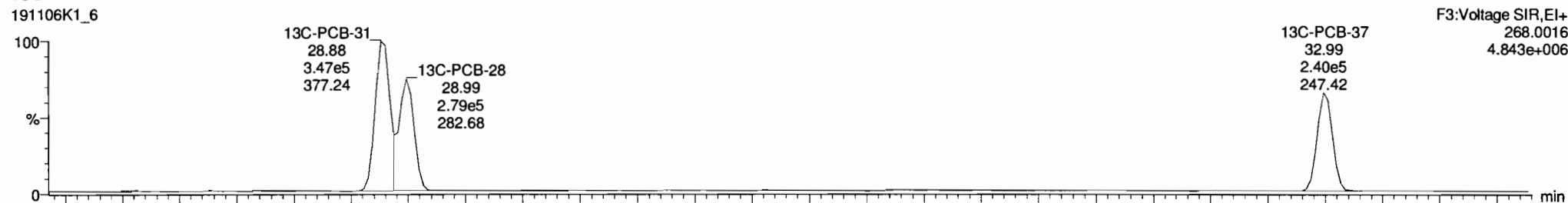
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PCB-34



13C-PCB-28

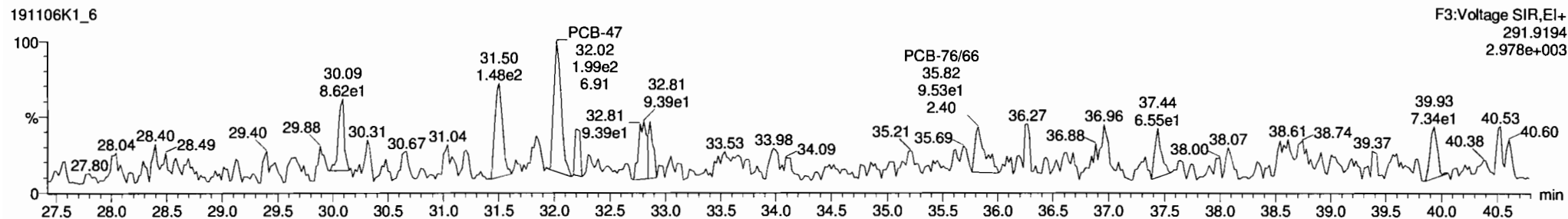
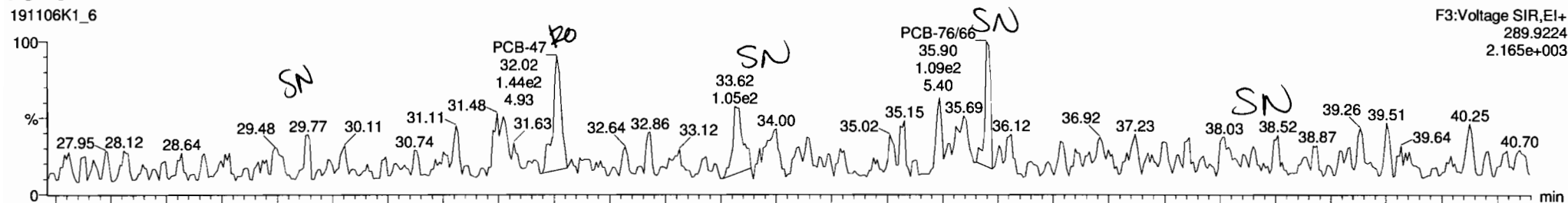


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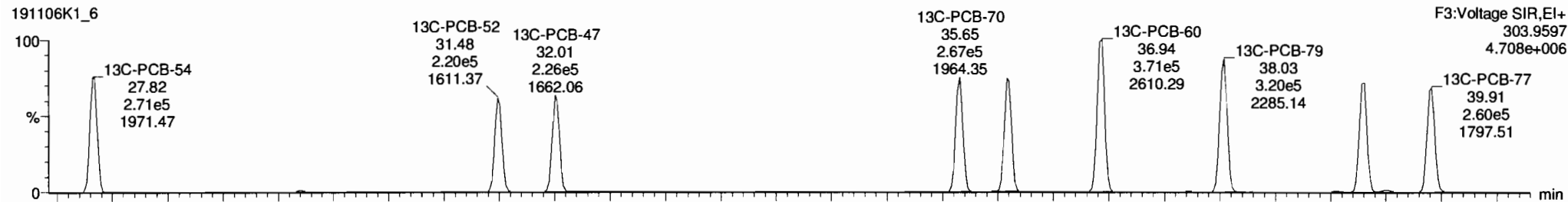
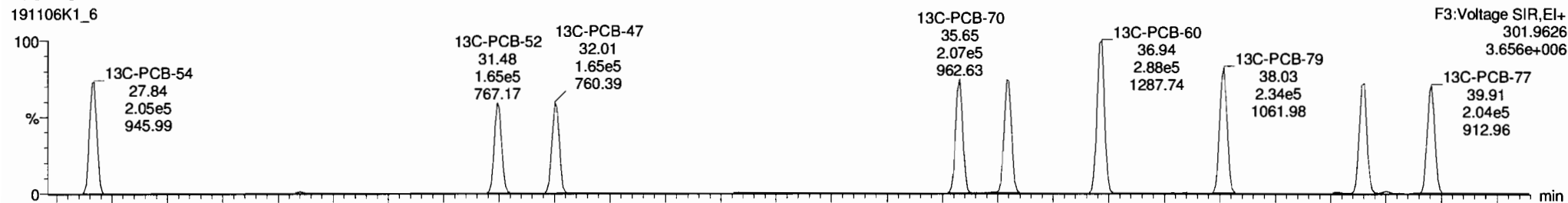
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**PCB-54**



**13C-PCB-54**





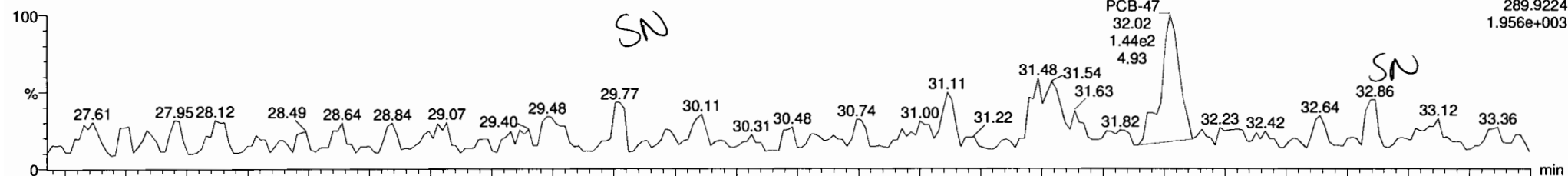
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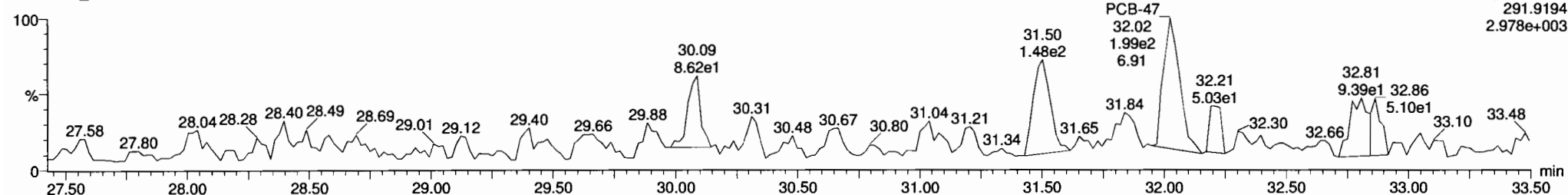
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PCB-50

191106K1\_6

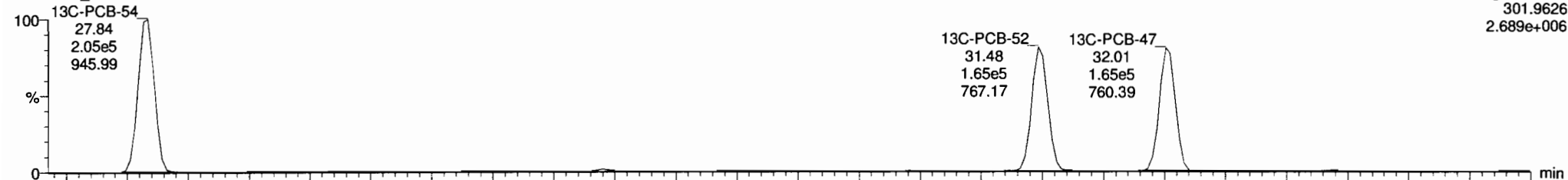


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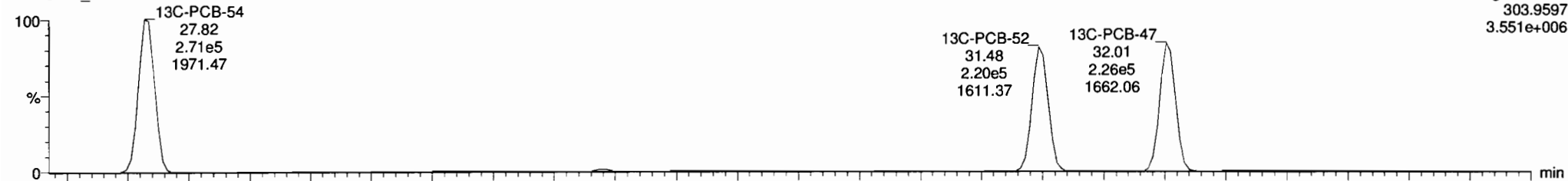


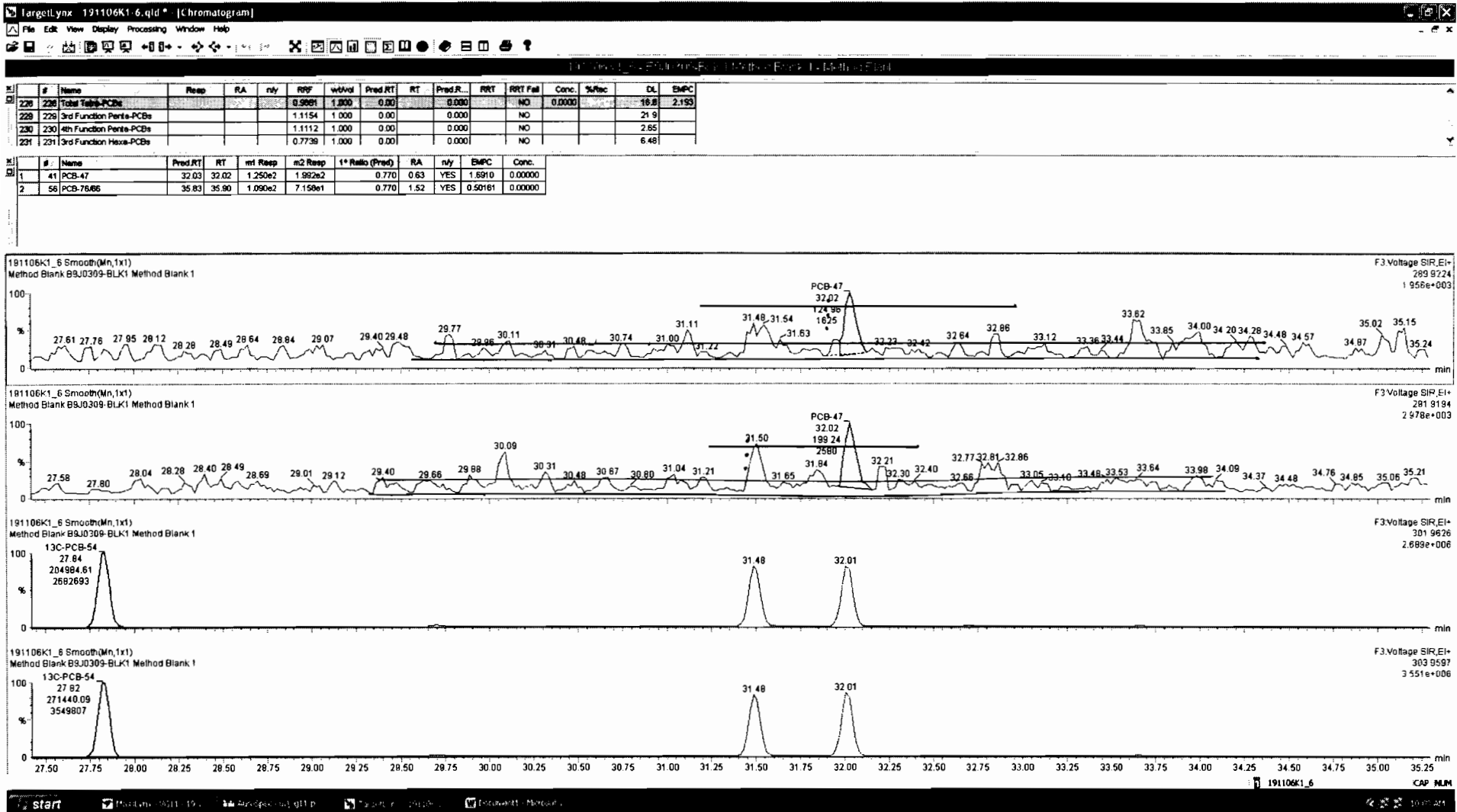
13C-PCB-52

191106K1\_6



191106K1\_6





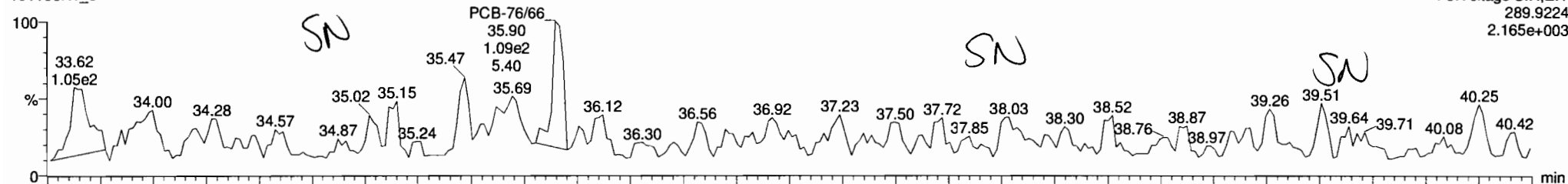
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Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

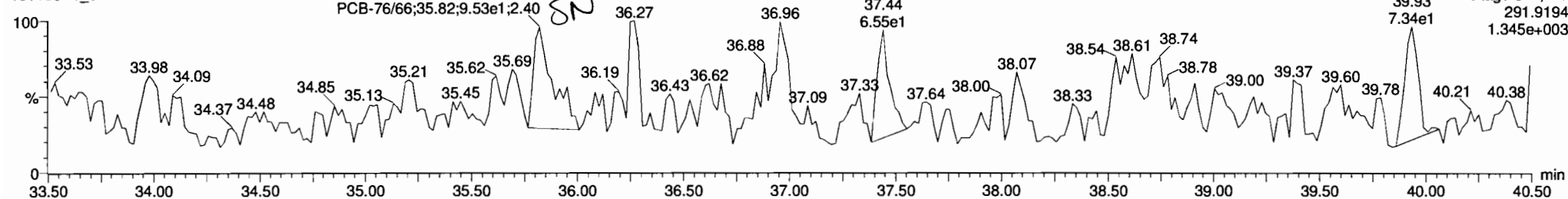
Name: 191106K1\_6, Date: 06-Nov-2019, Time: 18:01:14, ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

PCB-68

191106K1\_6

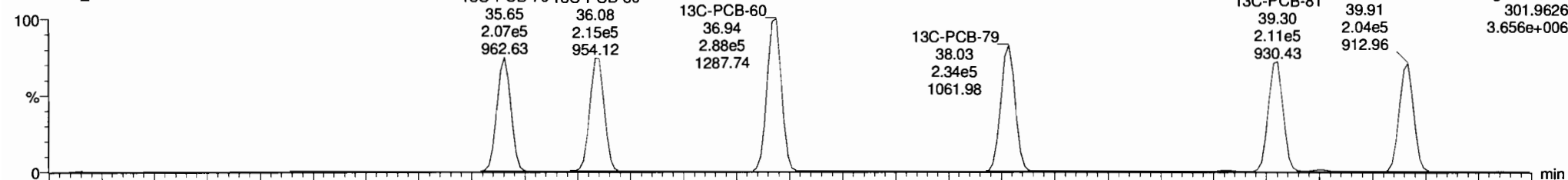


191106K1\_6

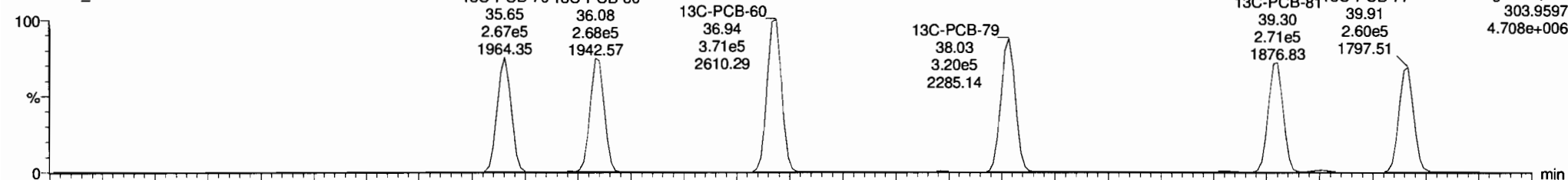


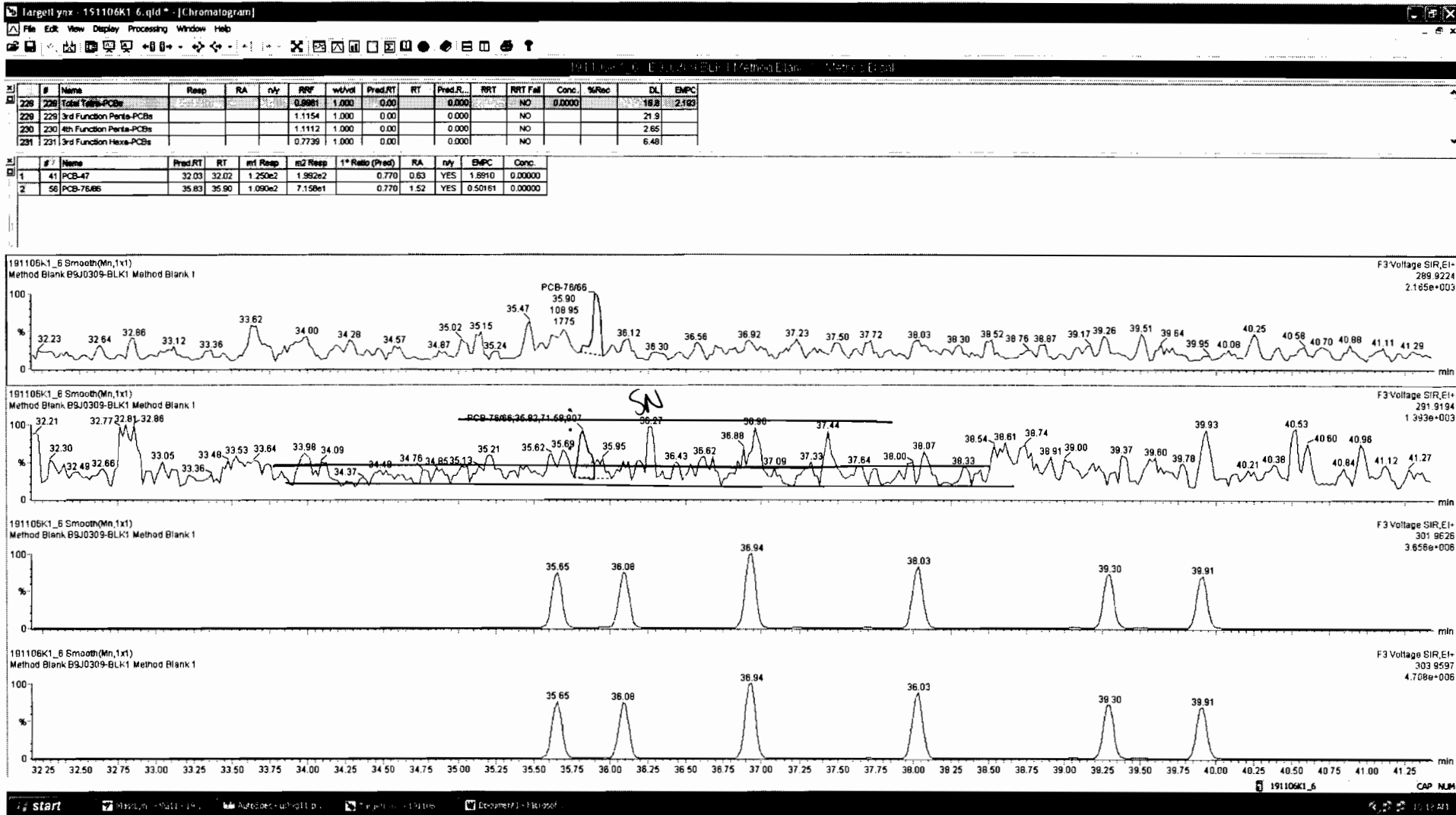
13C-PCB-60

191106K1\_6



191106K1\_6



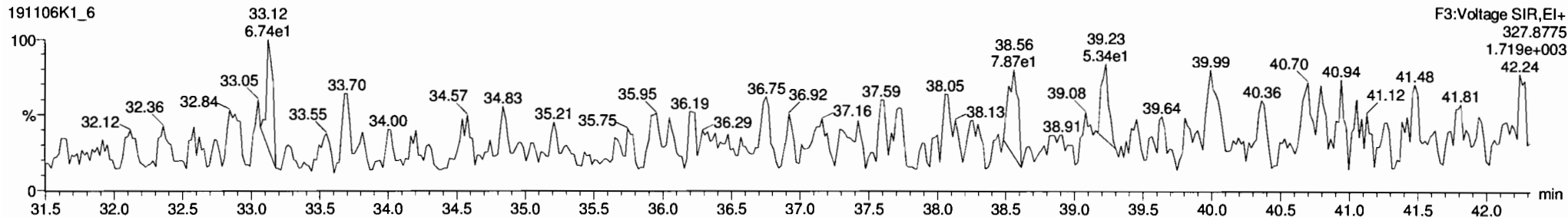
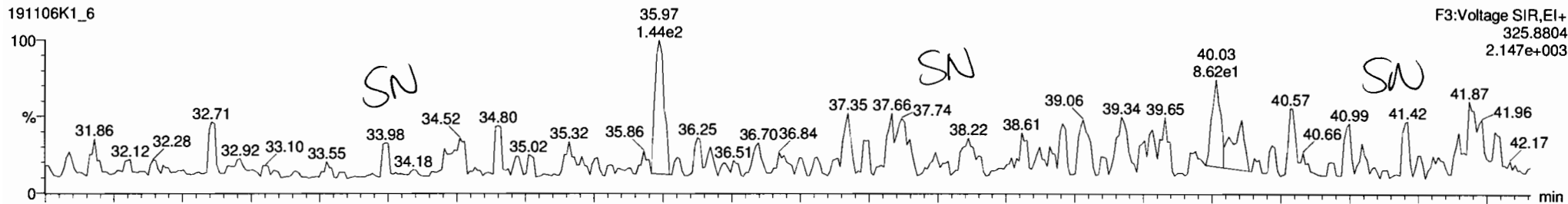


Dataset: Untitled

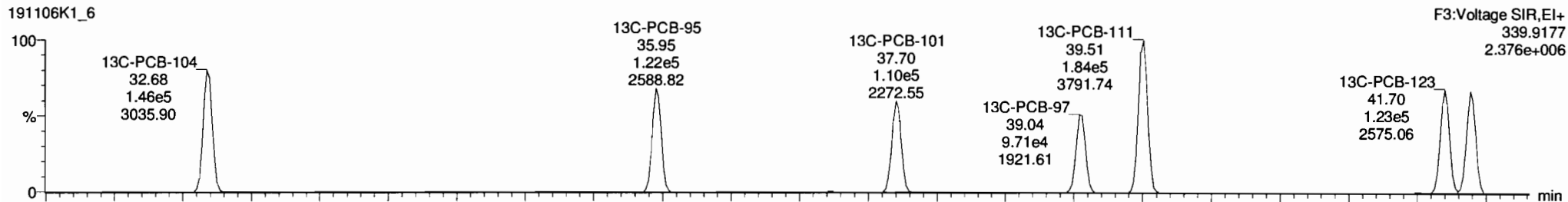
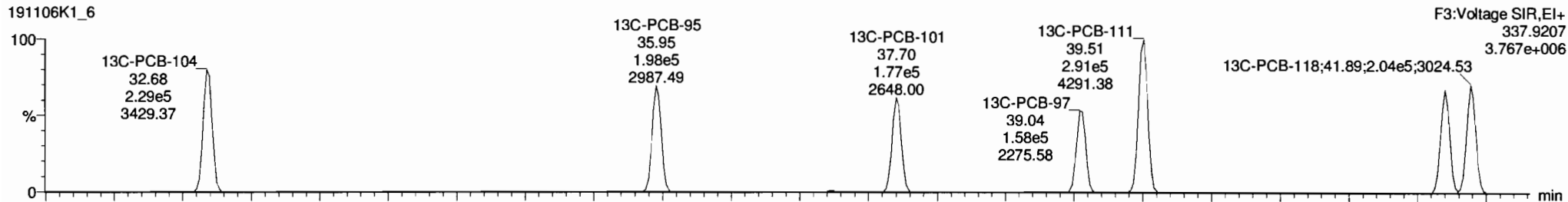
Last Altered: Thursday, November 07, 2019 08:56:58 Pacific Standard Time  
Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

Name: 191106K1\_6, Date: 06-Nov-2019, Time: 18:01:14, ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

PCB-104



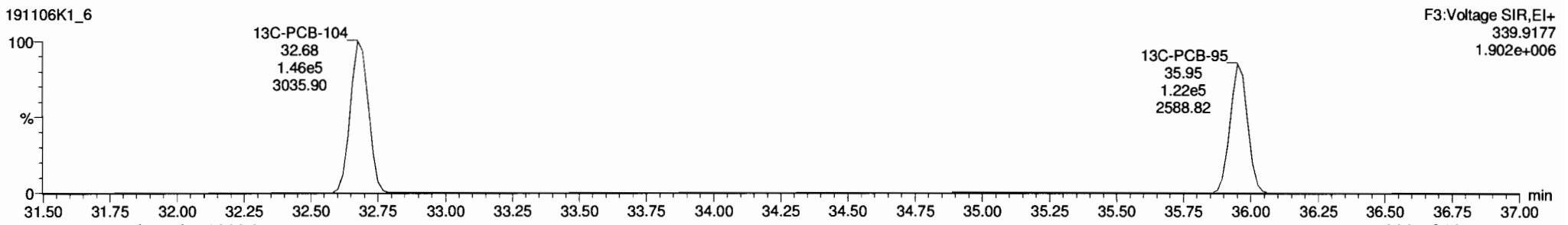
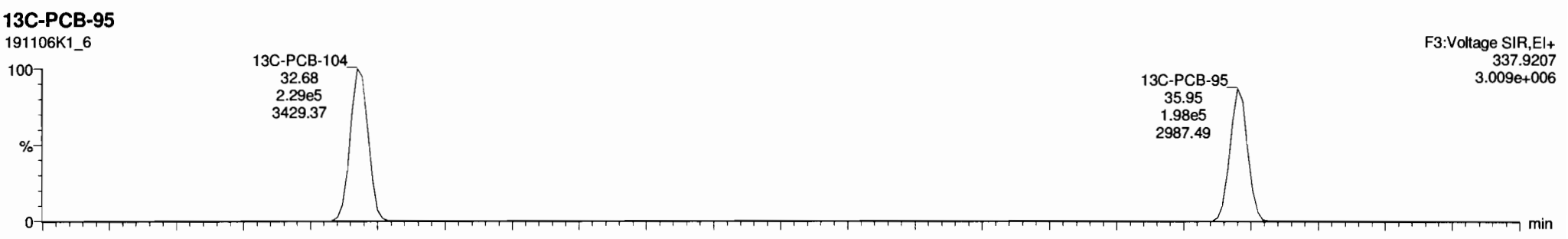
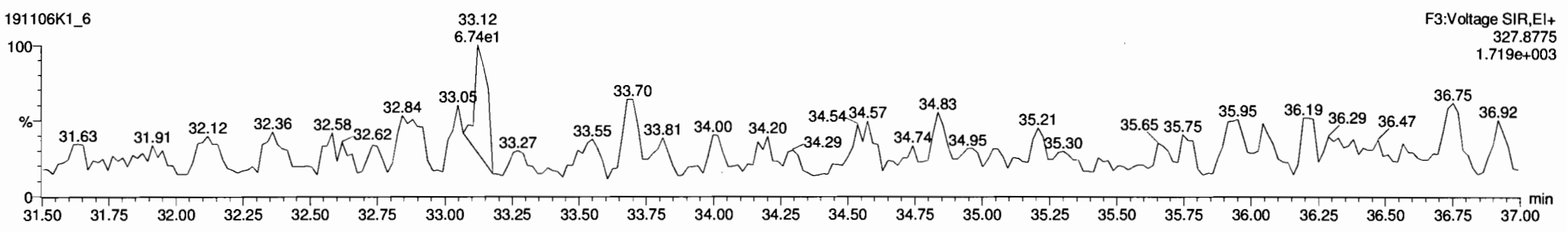
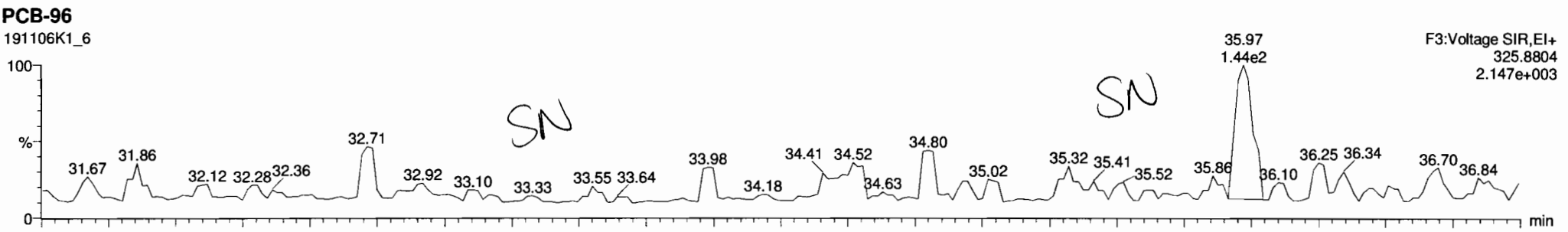
13C-PCB-104



Dataset: Untitled

Last Altered: Thursday, November 07, 2019 08:56:58 Pacific Standard Time  
Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

Name: 191106K1\_6, Date: 06-Nov-2019, Time: 18:01:14, ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

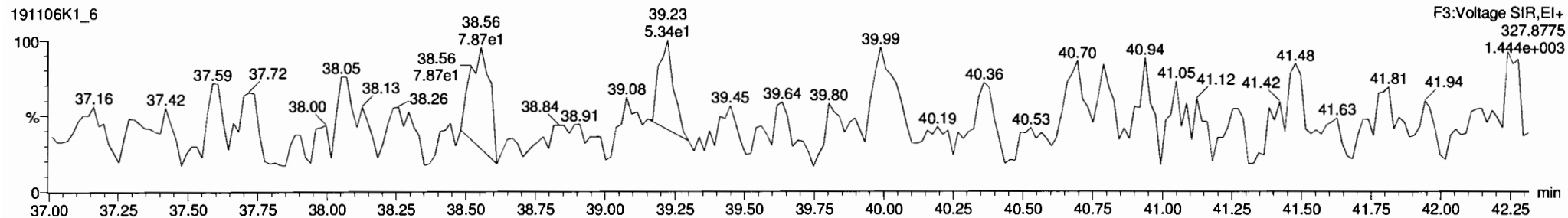
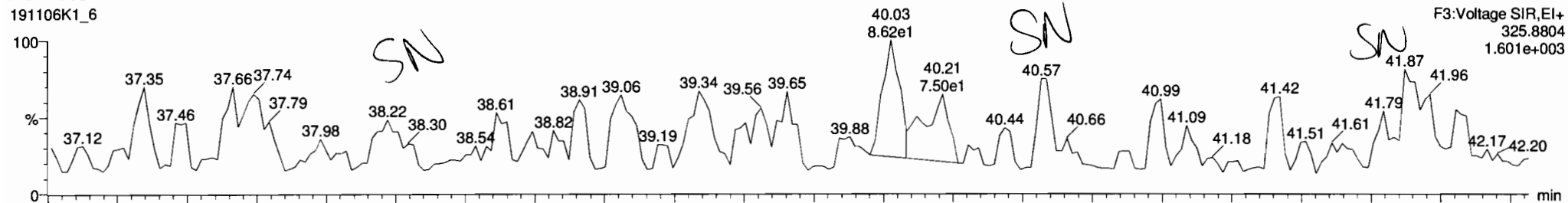


Dataset: Untitled

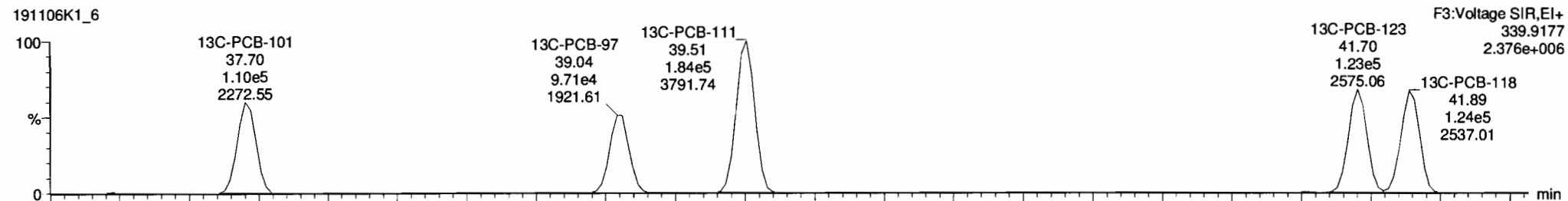
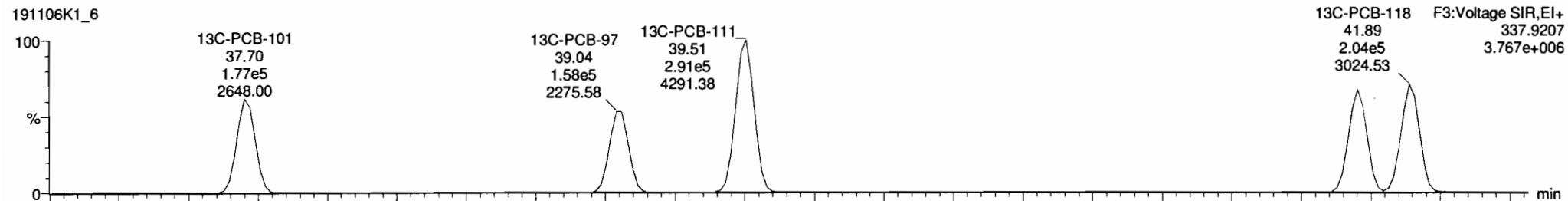
Last Altered: Thursday, November 07, 2019 08:56:58 Pacific Standard Time  
Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

Name: 191106K1\_6, Date: 06-Nov-2019, Time: 18:01:14, ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

PCB-119



13C-PCB-111

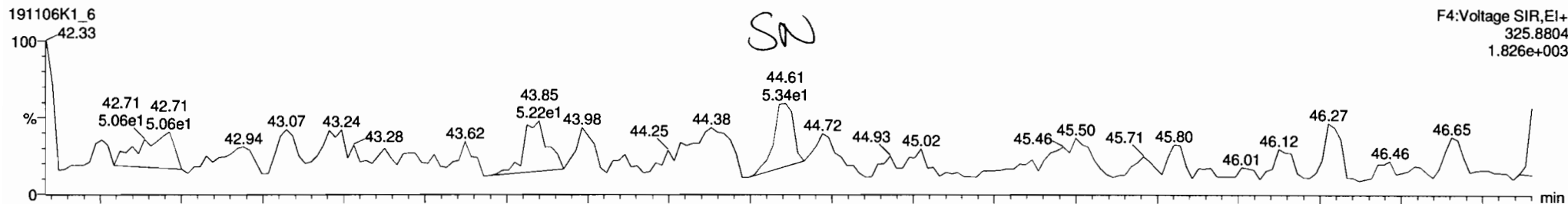


Dataset: Untitled

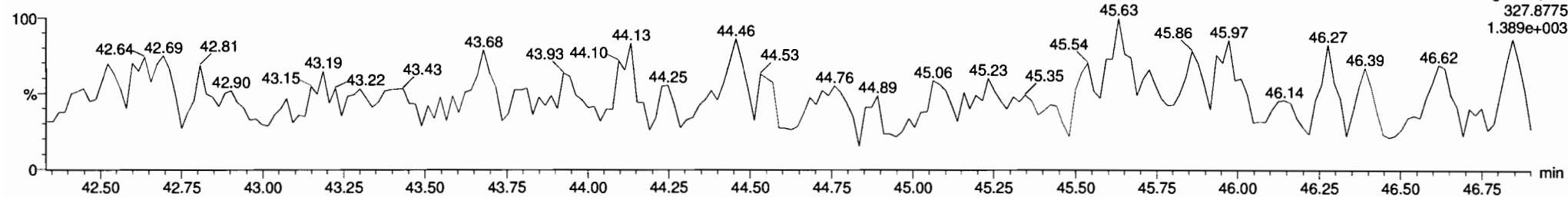
Last Altered: Thursday, November 07, 2019 08:56:58 Pacific Standard Time  
Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

Name: 191106K1\_6, Date: 06-Nov-2019, Time: 18:01:14, ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

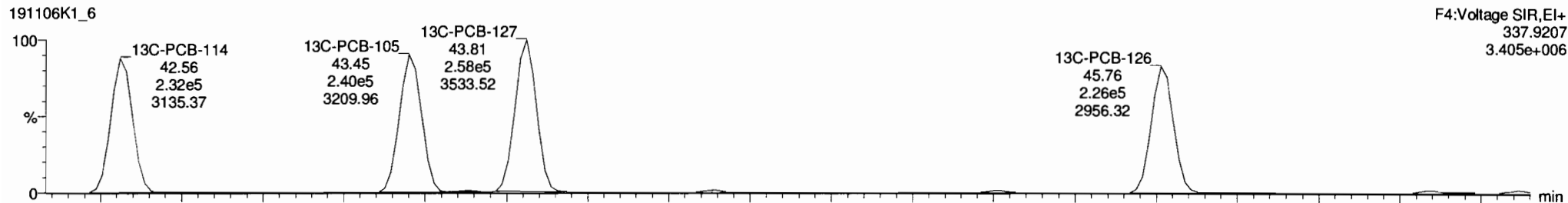
PCB-114



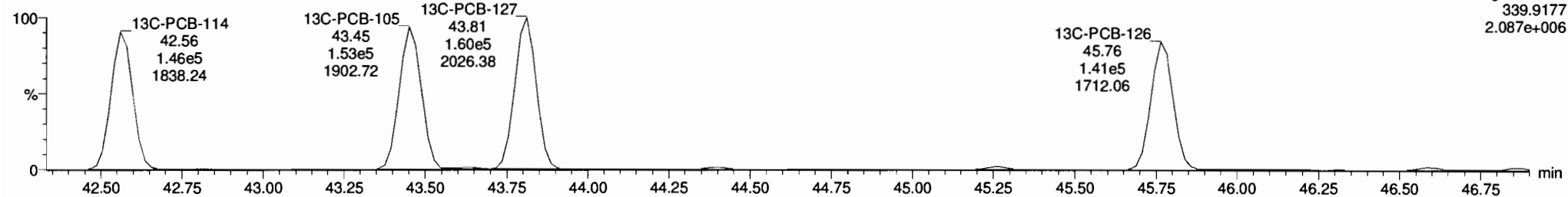
191106K1\_6



13C-PCB-114



191106K1\_6





Dataset: Untitled

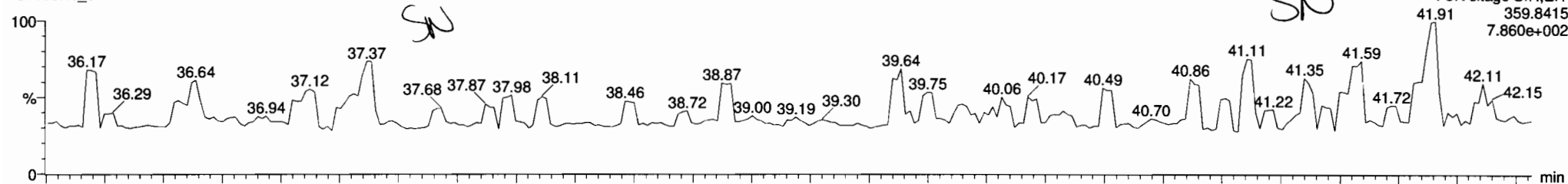
Last Altered: Thursday, November 07, 2019 08:56:58 Pacific Standard Time

Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

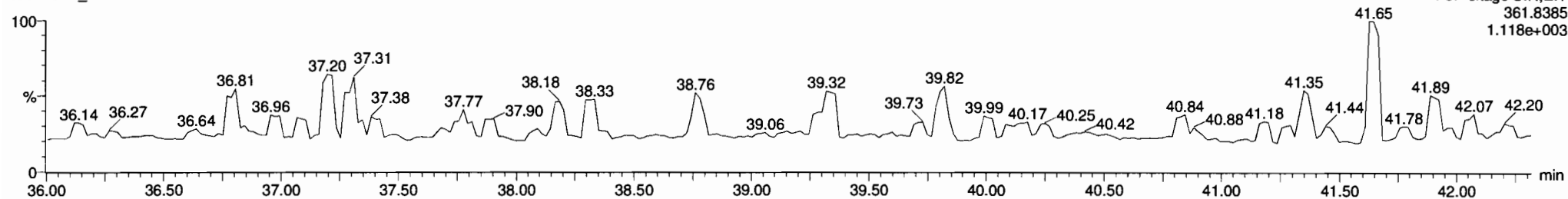
Name: 191106K1\_6, Date: 06-Nov-2019, Time: 18:01:14, ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

PCB-155

191106K1\_6

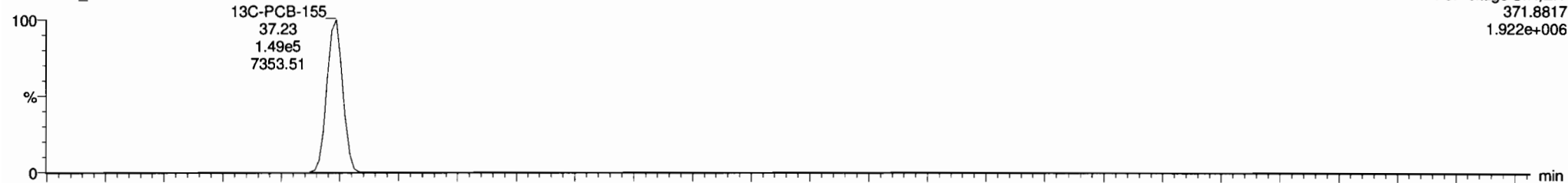


191106K1\_6

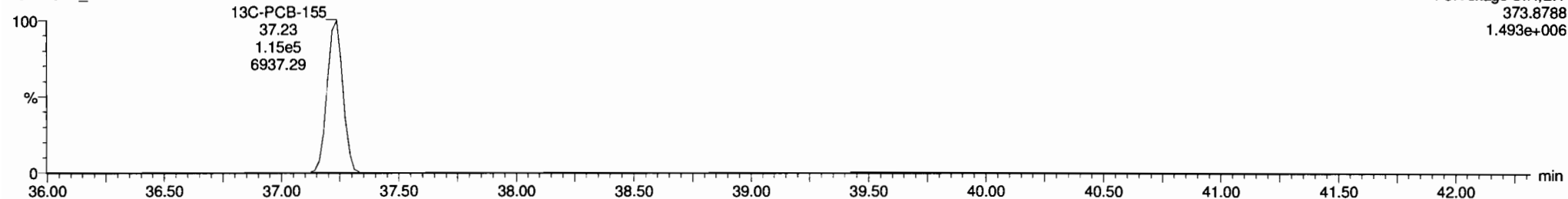


13C-PCB-155

191106K1\_6



191106K1\_6

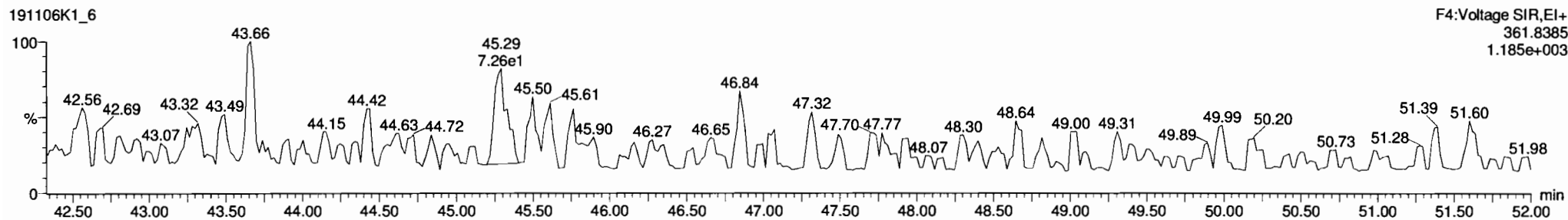
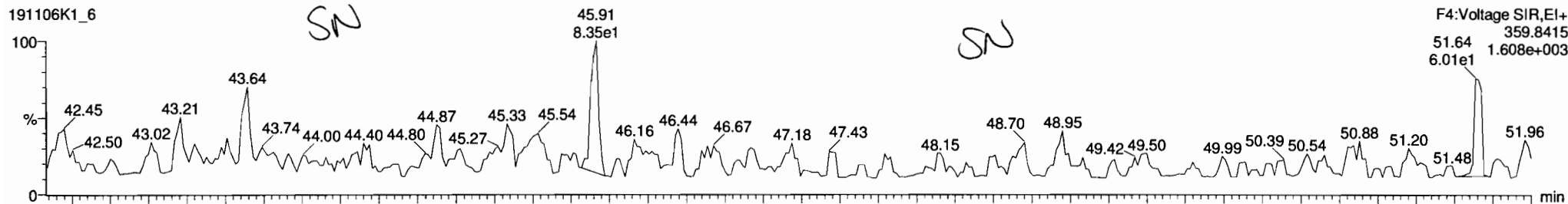


Dataset: Untitled

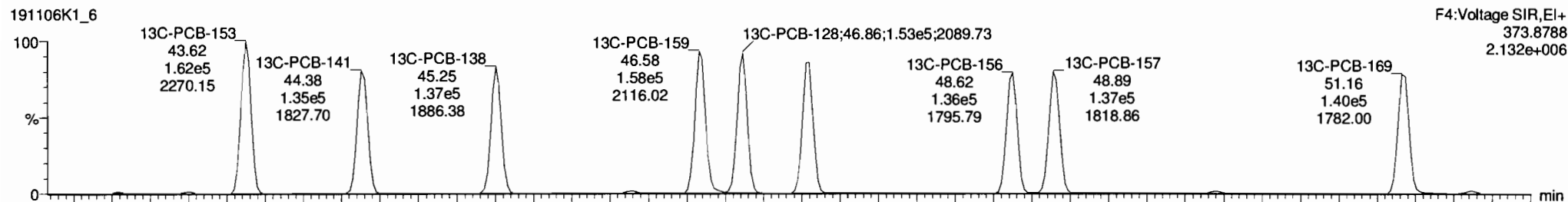
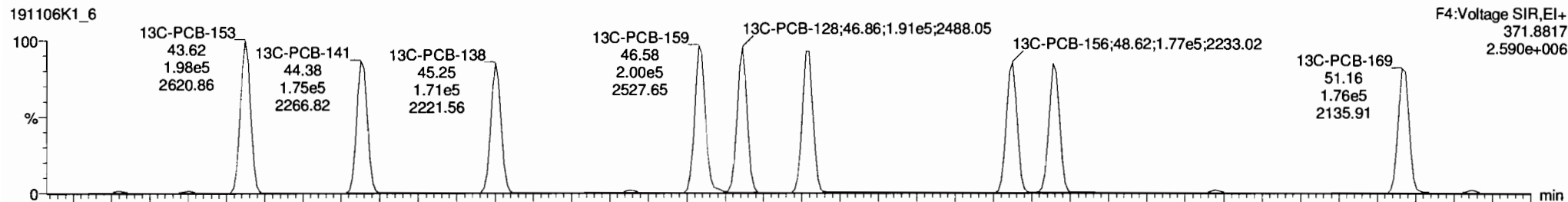
Last Altered: Thursday, November 07, 2019 08:56:58 Pacific Standard Time  
Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

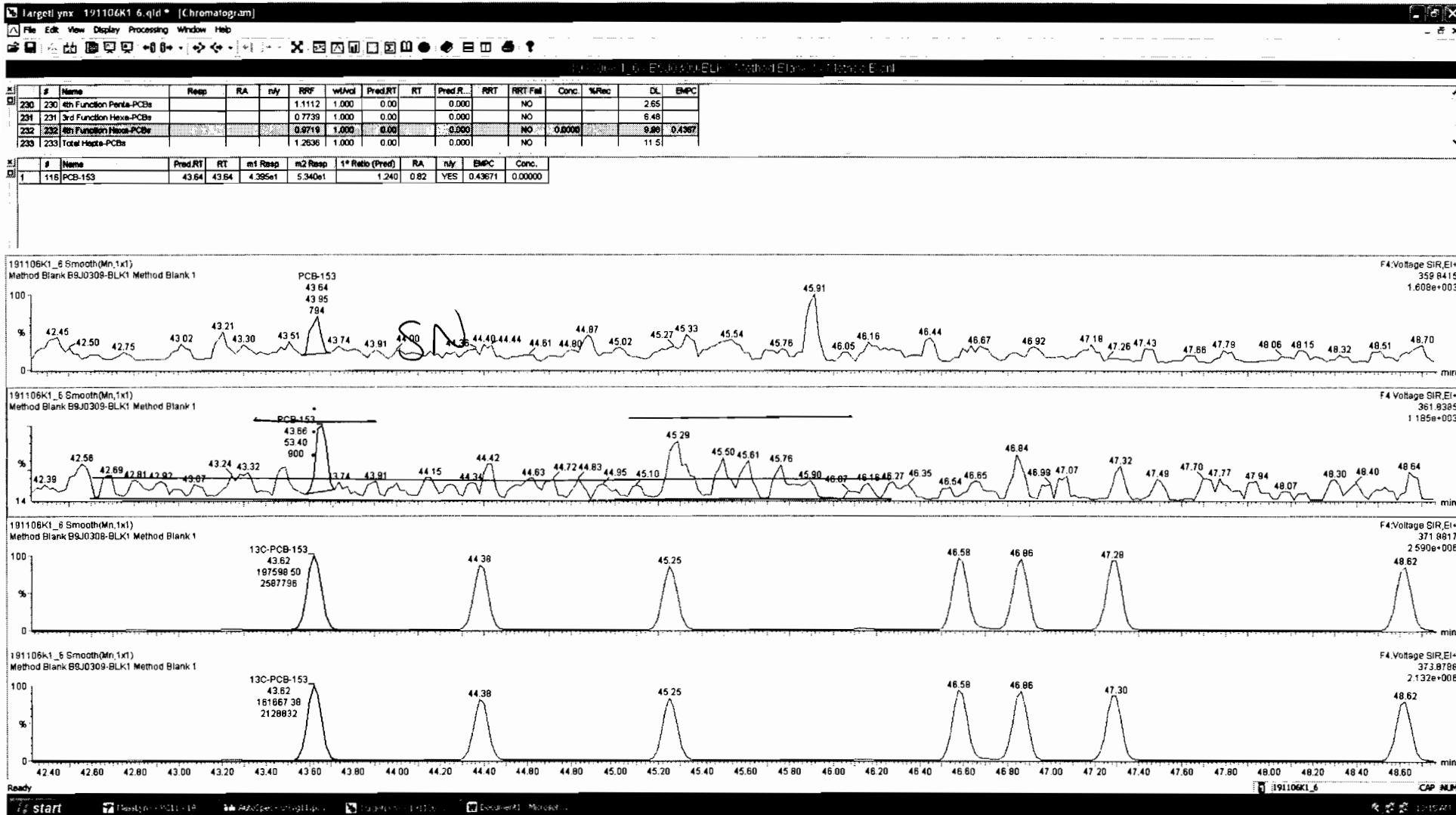
Name: 191106K1\_6, Date: 06-Nov-2019, Time: 18:01:14, ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

PCB-134/143



13C-PCB-153





Dataset: Untitled

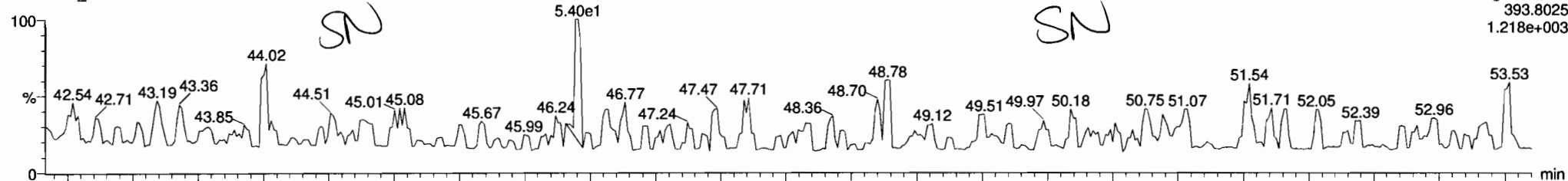
Last Altered: Thursday, November 07, 2019 08:56:58 Pacific Standard Time

Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

Name: 191106K1\_6, Date: 06-Nov-2019, Time: 18:01:14, ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

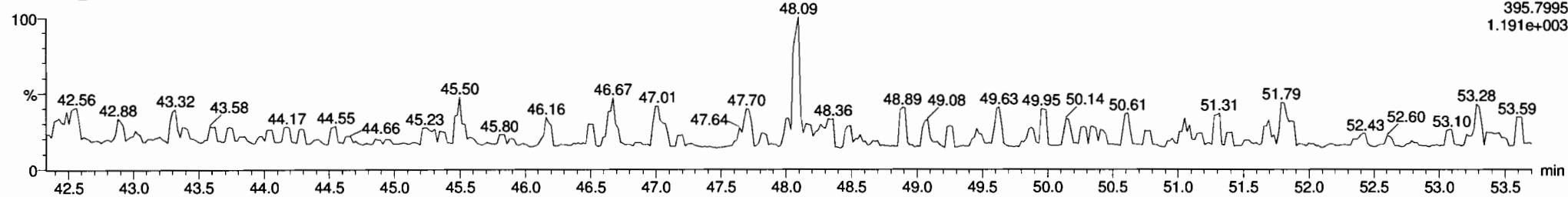
PCB-188

191106K1\_6



F4:Voltage SIR,EI+  
393.8025  
1.218e+003

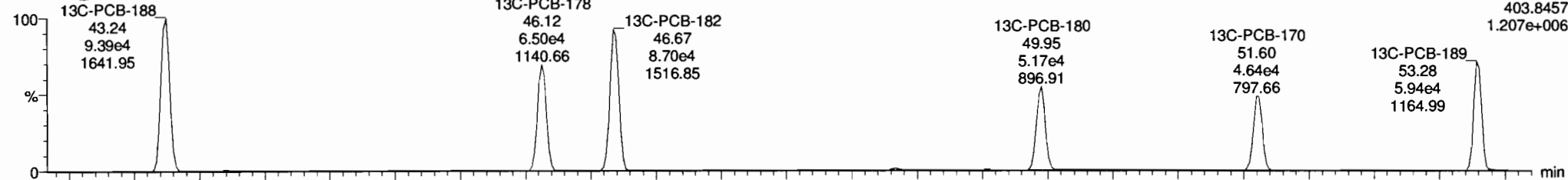
191106K1\_6



F4:Voltage SIR,EI+  
395.7995  
1.191e+003

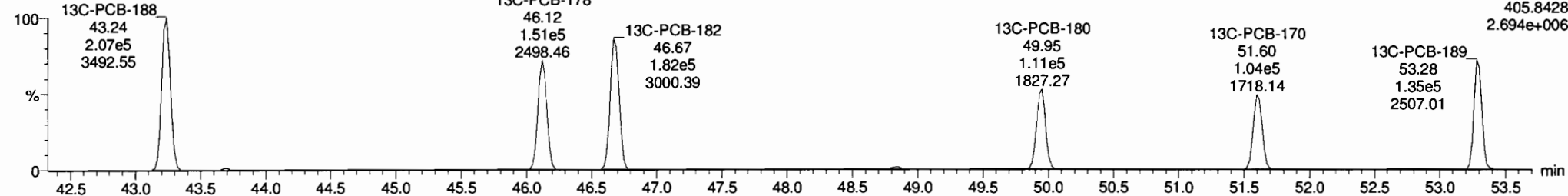
13C-PCB-188

191106K1\_6



F4:Voltage SIR,EI+  
403.8457  
1.207e+006

191106K1\_6



F4:Voltage SIR,EI+  
405.8428  
2.694e+006

Dataset: Untitled

Last Altered: Thursday, November 07, 2019 08:56:58 Pacific Standard Time  
Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

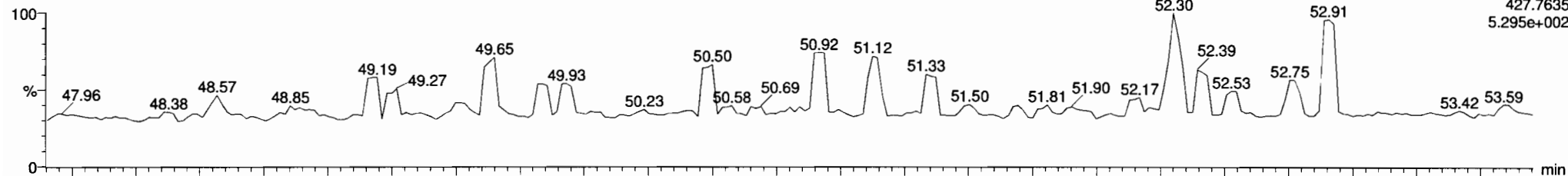
Name: 191106K1\_6, Date: 06-Nov-2019, Time: 18:01:14, ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

PCB-202

191106K1\_6

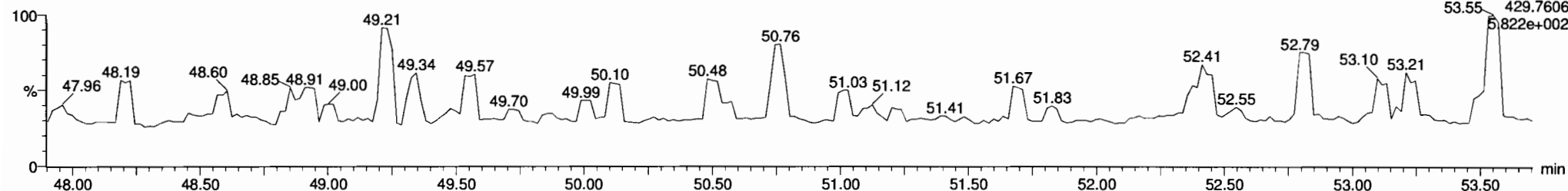
SN

F4:Voltage SIR,EI+  
427.7635  
5.295e+002



191106K1\_6

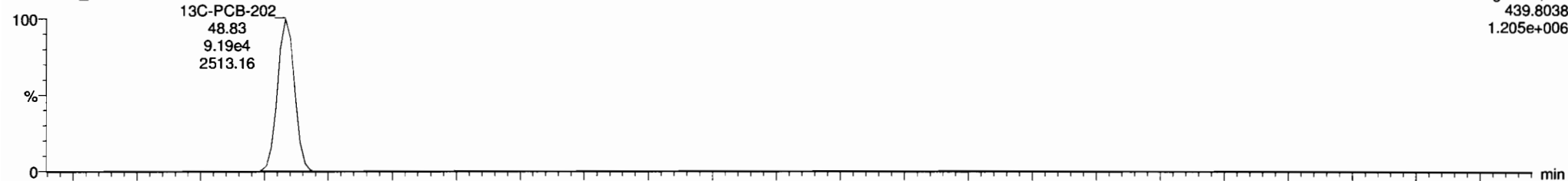
F4:Voltage SIR,EI+  
53.55 429.7606  
5.822e+002



13C-PCB-202

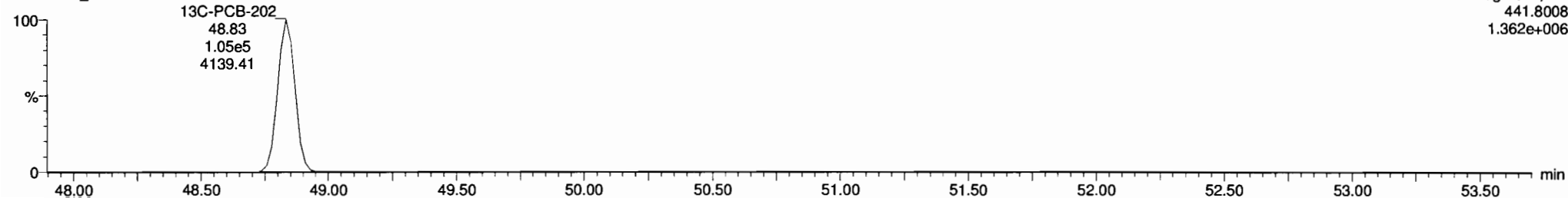
191106K1\_6

F4:Voltage SIR,EI+  
439.8038  
1.205e+006



191106K1\_6

F4:Voltage SIR,EI+  
441.8008  
1.362e+006

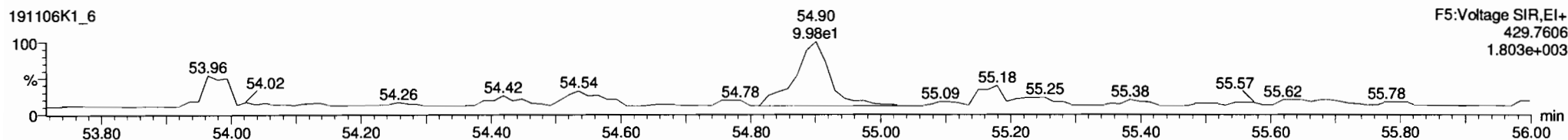
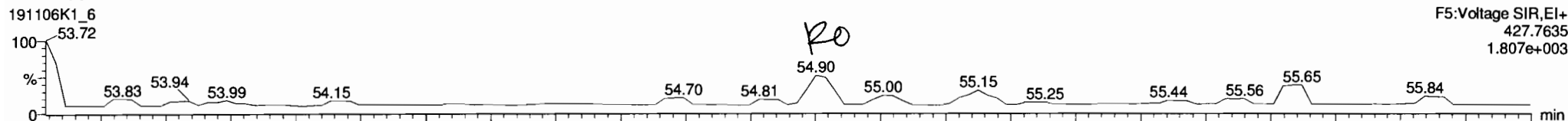


Dataset: Untitled

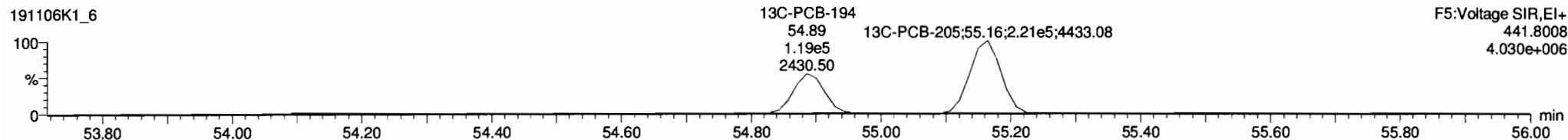
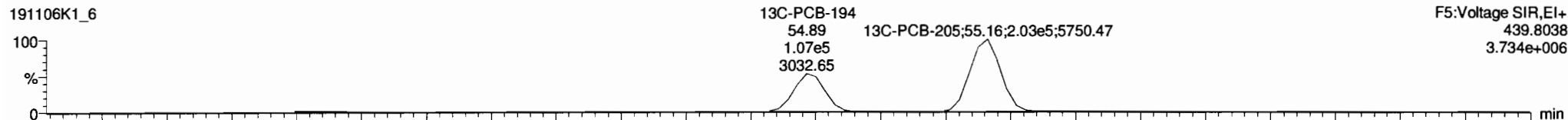
Last Altered: Thursday, November 07, 2019 08:56:58 Pacific Standard Time  
Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

Name: 191106K1\_6, Date: 06-Nov-2019, Time: 18:01:14, ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

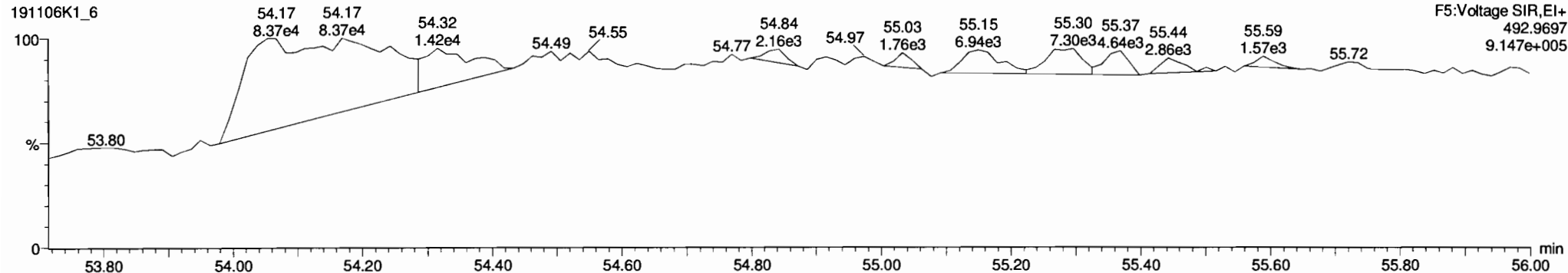
PCB-195

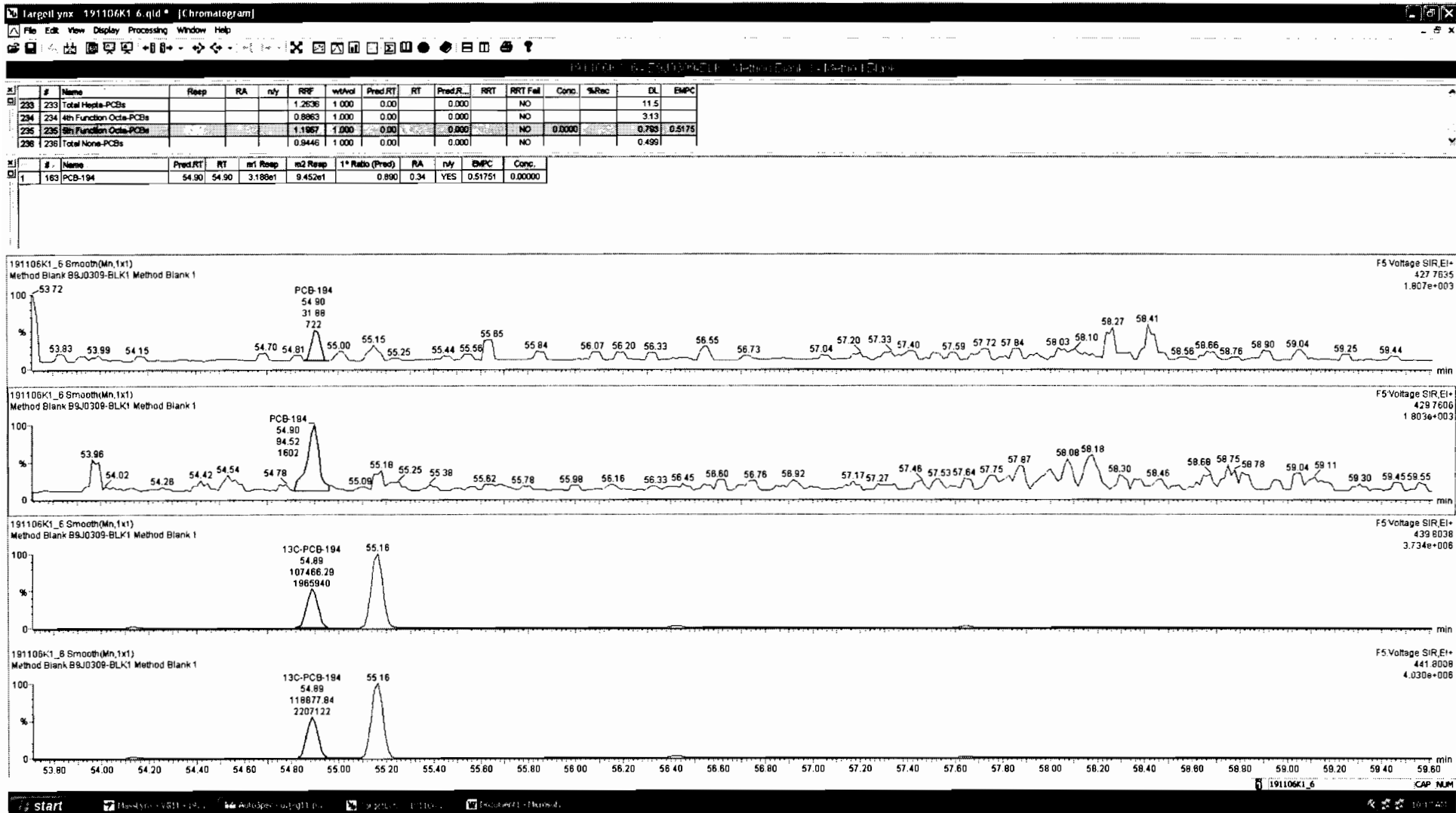


13C-PCB-194



PFK5



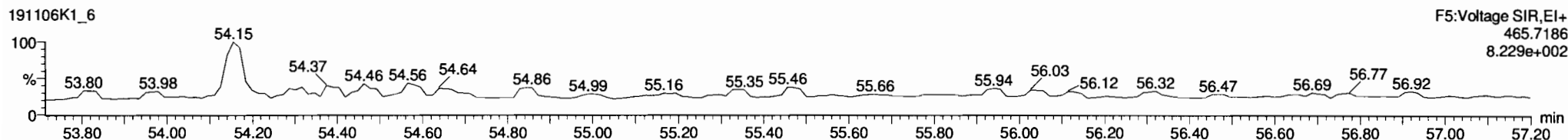
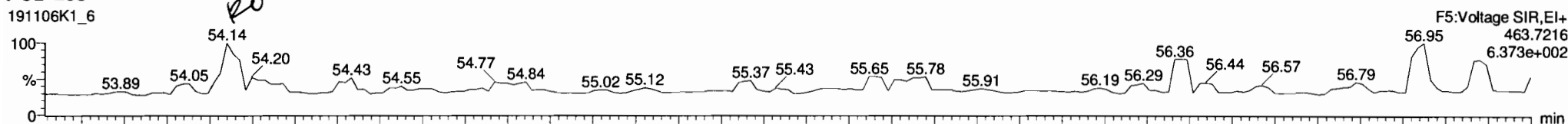


Dataset: Untitled

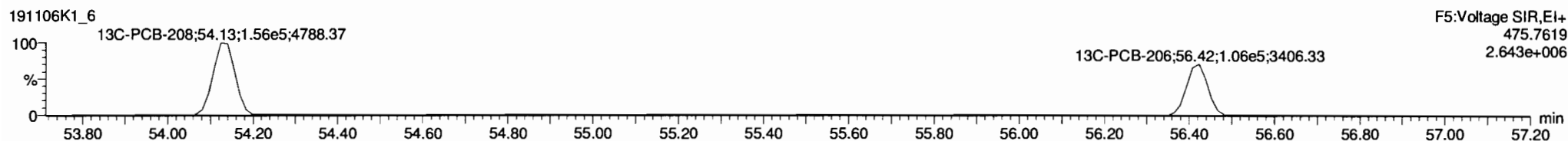
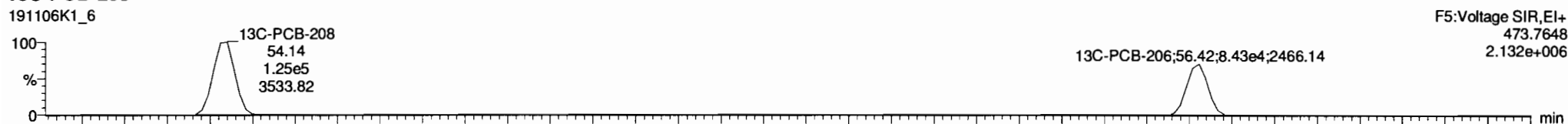
Last Altered: Thursday, November 07, 2019 08:56:58 Pacific Standard Time  
Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

Name: 191106K1\_6, Date: 06-Nov-2019, Time: 18:01:14, ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

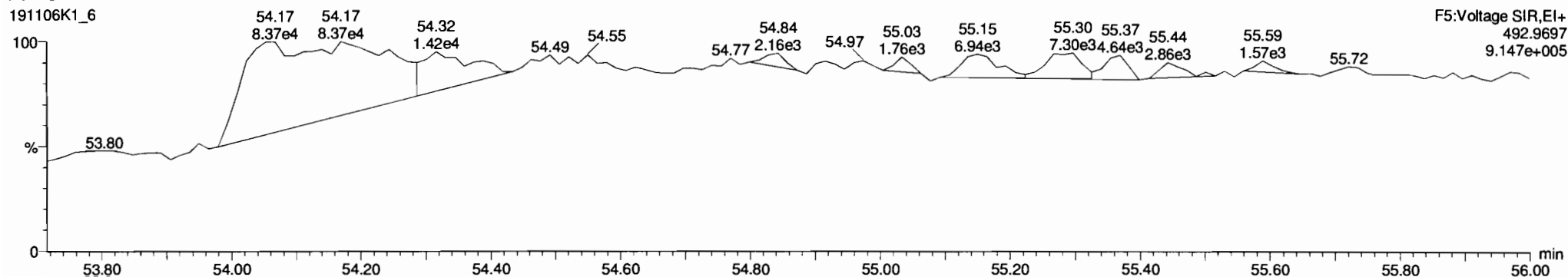
**PCB-208**



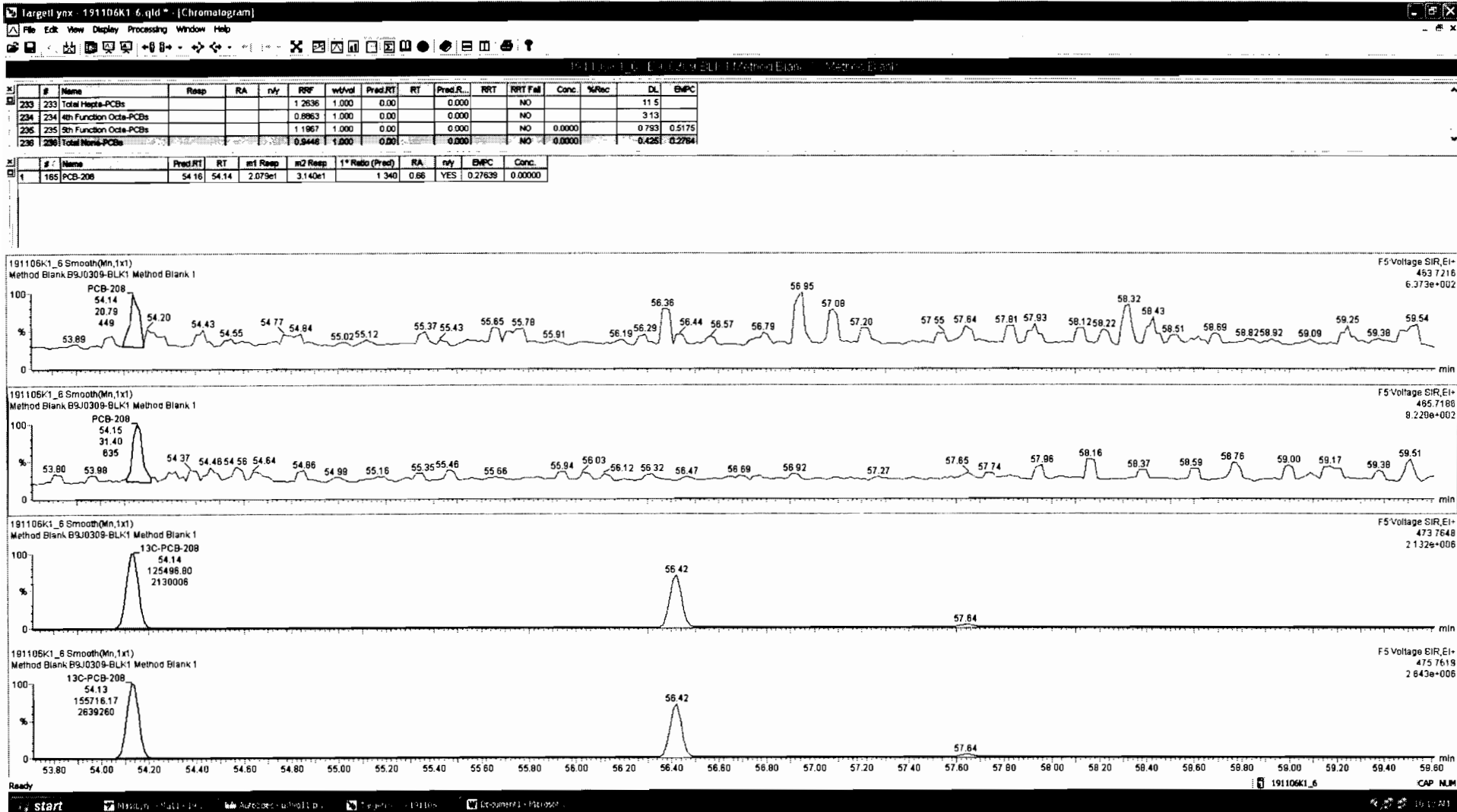
**13C-PCB-208**



**PFK5**





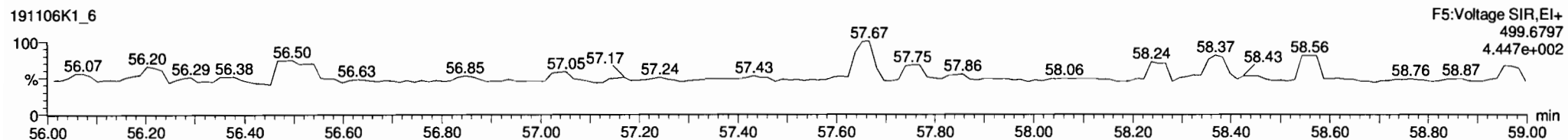


Dataset: Untitled

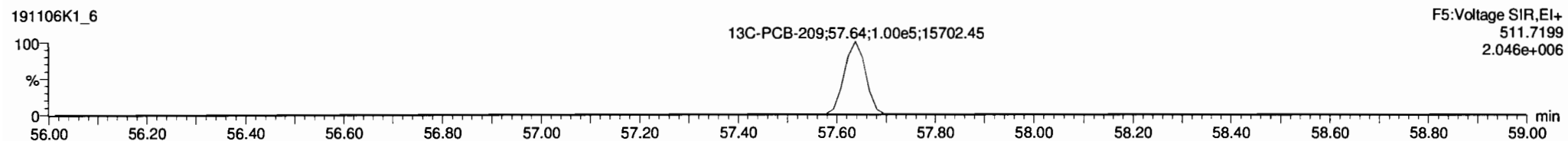
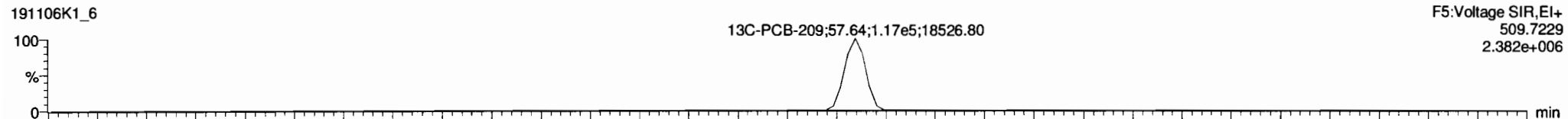
Last Altered: Thursday, November 07, 2019 08:56:58 Pacific Standard Time  
Printed: Thursday, November 07, 2019 08:59:19 Pacific Standard Time

Name: 191106K1\_6, Date: 06-Nov-2019, Time: 18:01:14, ID: B9J0309-BLK1 Method Blank 1, Description: Method Blank

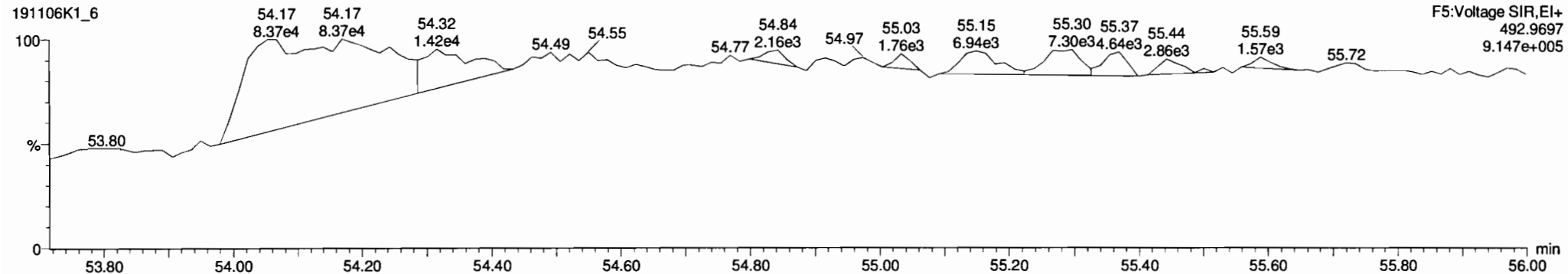
**PCB-209**

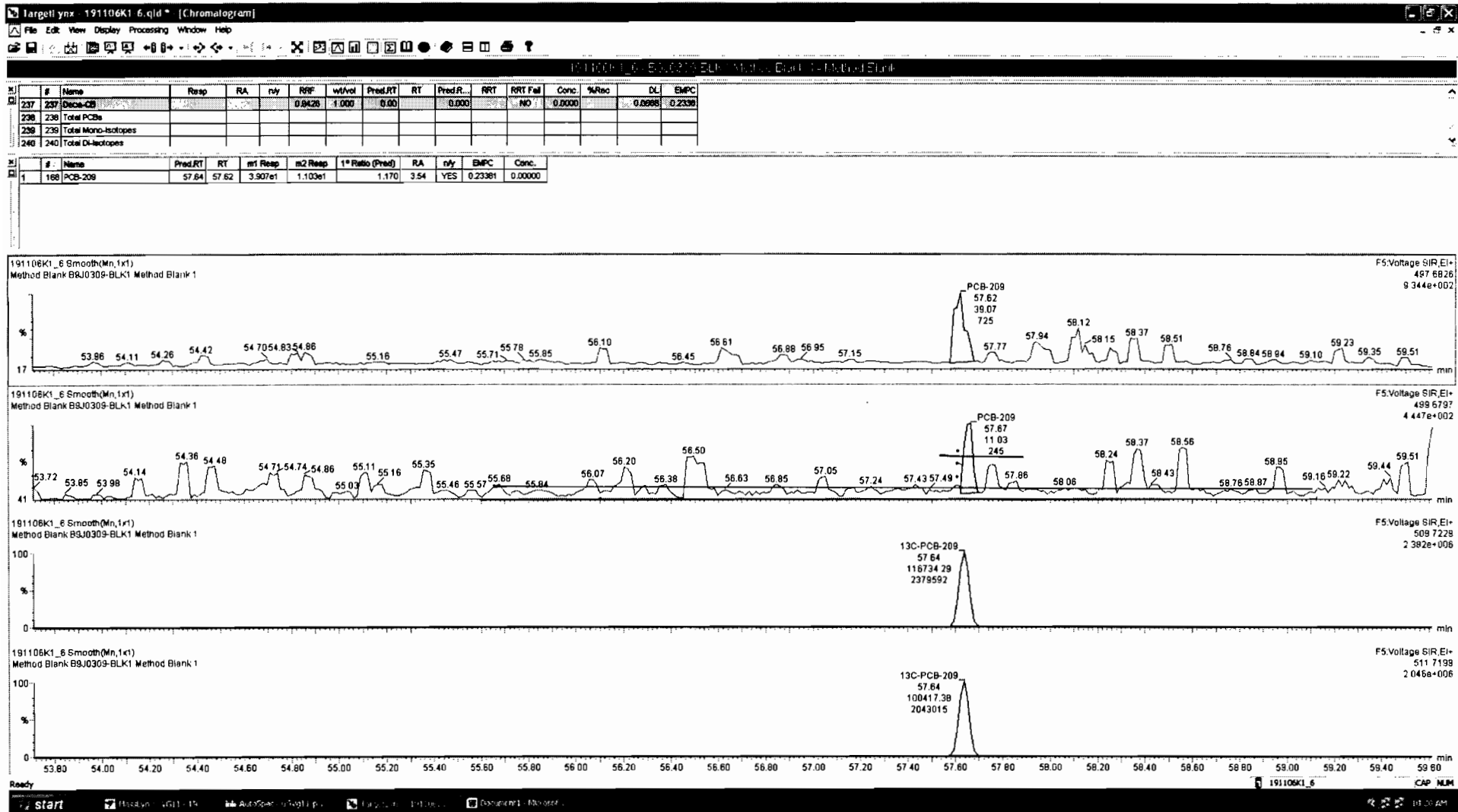


**13C-PCB-209**



**PFK5**





Dataset: U:\VG11.PRO\Results\191106K1\191106K1-2.qld

Last Altered: Thursday, November 07, 2019 10:04:02 Pacific Standard Time

Printed: Thursday, November 07, 2019 10:04:35 Pacific Standard Time

GKB 11/07/19

Method: Untitled 05 Nov 2019 14:32:48

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

CT 11/13/19

Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	3.44e5	3.03	NO	1.02	1.000	15.70	15.70	1.001	1.001	NO	1069		0.336	1069
2	2 PCB-2	3.58e5	3.12	NO	1.01	1.000	18.13	18.14	0.988	0.988	NO	1174		0.373	1174
3	3 PCB-3	3.49e5	3.14	NO	1.01	1.000	18.36	18.37	1.001	1.001	NO	1146		0.374	1146
4	4 PCB-4/10	4.46e5	1.57	NO	1.28	1.000	19.79	19.80	1.004	1.004	NO	2037		4.60	2037
5	5 PCB-7/9	6.00e5	1.58	NO	0.976	1.000	21.61	21.59	1.003	1.002	NO	2088		3.68	2088
6	6 PCB-6	3.16e5	1.56	NO	1.02	1.000	22.27	22.26	1.033	1.033	NO	1056		3.53	1056
7	7 PCB-5/8	6.07e5	1.58	NO	1.01	1.000	22.68	22.67	1.052	1.052	NO	2039		3.55	2039
8	8 PCB-14	3.08e5	1.55	NO	1.03	1.000	23.82	23.82	0.952	0.952	NO	1061		3.74	1061
9	9 PCB-11	3.13e5	1.56	NO	1.10	1.000	25.05	25.05	1.001	1.001	NO	1013		3.52	1013
10	10 PCB-12/13	5.97e5	1.56	NO	1.04	1.000	25.48	25.48	1.018	1.018	NO	2046		3.73	2046
11	11 PCB-15	2.92e5	1.55	NO	1.03	1.000	25.79	25.77	1.030	1.030	NO	1009		3.76	1009
12	12 PCB-19	1.99e5	1.00	NO	0.934	1.000	24.01	24.00	1.001	1.001	NO	1098		0.961	1098
13	13 PCB-30	3.05e5	0.95	NO	1.48	1.000	24.93	24.92	1.040	1.040	NO	1061		0.606	1061
14	14 PCB-18	2.05e5	0.95	NO	0.693	1.000	25.67	25.70	0.951	0.952	NO	1065		0.931	1065
15	15 PCB-17	1.91e5	0.94	NO	0.667	1.000	25.86	25.87	0.958	0.959	NO	1032		0.967	1032
16	16 PCB-24/27	5.37e5	1.01	NO	0.915	1.000	26.48	26.46	0.981	0.981	NO	2110		0.705	2110
17	17 PCB-16/32	4.78e5	0.97	NO	0.792	1.000	27.01	27.01	1.001	1.001	NO	2170		0.814	2170
18	18 PCB-34	2.58e5	1.05	NO	0.987	1.000	27.82	27.82	0.959	0.959	NO	932.3		2.92	932.3
19	19 PCB-23	2.27e5	1.10	NO	0.974	1.000	27.92	27.91	0.962	0.962	NO	829.9		2.96	829.9
20	20 PCB-29	2.39e5	1.06	NO	0.953	1.000	28.15	28.17	0.970	0.971	NO	892.4		3.03	892.4
21	21 PCB-26	2.71e5	1.08	NO	1.00	1.000	28.40	28.40	0.979	0.979	NO	965.3		2.88	965.3
22	22 PCB-25	2.83e5	1.07	NO	0.978	1.000	28.55	28.56	0.984	0.985	NO	1033		2.95	1033
23	23 PCB-31	3.03e5	1.05	NO	1.12	1.000	28.94	28.92	0.998	0.997	NO	963.2		2.57	963.2
24	24 PCB-28	3.02e5	1.06	NO	1.11	1.000	29.03	29.03	1.001	1.001	NO	973.7		2.61	973.7
25	25 PCB-20/21/33	8.98e5	1.05	NO	1.00	1.000	29.67	29.66	1.023	1.022	NO	3190		2.88	3190
26	26 PCB-22	3.09e5	1.07	NO	1.03	1.000	30.16	30.13	1.039	1.038	NO	1067		2.79	1067
27	27 PCB-36	3.12e5	1.05	NO	1.18	1.000	30.71	30.76	0.930	0.932	NO	1042		2.74	1042
28	28 PCB-39	2.89e5	1.06	NO	1.08	1.000	31.21	31.24	0.945	0.946	NO	1048		2.97	1048
29	29 PCB-38	2.89e5	1.06	NO	1.13	1.000	32.02	32.04	0.970	0.971	NO	1007		2.86	1007
30	30 PCB-35	3.03e5	1.06	NO	1.13	1.000	32.57	32.58	0.987	0.987	NO	1053		2.85	1053
31	31 PCB-37	2.79e5	1.07	NO	1.11	1.000	33.05	33.03	1.001	1.001	NO	990.6		2.92	990.6
32	32 PCB-54	2.53e5	0.73	NO	0.996	1.000	27.86	27.86	1.001	1.001	NO	1051		0.999	1051

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-2.qld

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Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50	2.14e5	0.73	NO	0.781	1.000	29.10	29.07	1.045	1.044	NO	1133		1.27	1133
34	34 PCB-53	2.07e5	0.73	NO	0.955	1.000	29.72	29.74	0.943	0.944	NO	1038		1.21	1038
35	35 PCB-51	2.20e5	0.74	NO	1.02	1.000	30.07	30.09	0.955	0.955	NO	1031		1.13	1031
36	36 PCB-45	1.83e5	0.71	NO	0.808	1.000	30.51	30.54	0.969	0.969	NO	1088		1.43	1088
37	37 PCB-46	1.76e5	0.72	NO	0.754	1.000	31.03	31.04	0.985	0.985	NO	1122		1.53	1122
38	38 PCB-52/69	4.89e5	0.74	NO	1.09	1.000	31.54	31.54	1.001	1.001	NO	2150		1.06	2150
39	39 PCB-73	2.77e5	0.75	NO	1.29	1.000	31.66	31.65	1.005	1.005	NO	1030	0.896		1030
40	40 PCB-43/49	4.11e5	0.73	NO	0.940	1.000	31.83	31.84	1.010	1.011	NO	2097		1.23	2097
41	41 PCB-47	2.03e5	0.73	NO	0.869	1.000	32.04	32.04	1.001	1.001	NO	1085		1.30	1085
42	42 PCB-48/75	4.62e5	0.74	NO	1.02	1.000	32.16	32.15	1.004	1.004	NO	2090		1.10	2090
43	43 PCB-65	2.51e5	0.73	NO	1.11	1.000	32.43	32.43	1.013	1.013	NO	1048		1.02	1048
44	44 PCB-62	2.38e5	0.75	NO	1.07	1.000	32.54	32.54	1.016	1.016	NO	1034		1.06	1034
45	45 PCB-44	1.71e5	0.74	NO	0.761	1.000	32.88	32.86	1.027	1.026	NO	1042		1.48	1042
46	46 PCB-42/59	4.33e5	0.73	NO	0.960	1.000	33.09	33.10	1.033	1.034	NO	2087		1.17	2087
47	47 PCB-41/64/71/72	9.70e5	0.73	NO	1.08	1.000	33.72	33.70	1.053	1.052	NO	4153		1.04	4153
48	48 PCB-68	2.50e5	0.72	NO	1.11	1.000	34.01	33.98	1.062	1.061	NO	1043		1.02	1043
49	49 PCB-40	1.25e5	0.71	NO	0.577	1.000	34.23	34.20	1.069	1.068	NO	1005		1.95	1005
50	50 PCB-57	2.61e5	0.75	NO	1.05	1.000	34.55	34.57	0.969	0.969	NO	1017	0.994		1017
51	51 PCB-67	2.49e5	0.73	NO	0.993	1.000	34.88	34.89	0.978	0.978	NO	1024		1.05	1024
52	52 PCB-58	2.75e5	0.74	NO	1.11	1.000	35.01	35.00	0.981	0.981	NO	1012		0.937	1012
53	53 PCB-63	2.50e5	0.75	NO	0.962	1.000	35.16	35.17	0.986	0.986	NO	1061		1.08	1061
54	54 PCB-74	2.82e5	0.74	NO	1.07	1.000	35.47	35.47	0.994	0.994	NO	1079		0.978	1079
55	55 PCB-61/70	5.09e5	0.74	NO	0.986	1.000	35.69	35.60	1.000	0.998	NO	2110		1.06	2110
56	56 PCB-76/66	5.54e5	0.73	NO	1.07	1.000	35.85	35.86	1.005	1.005	NO	2121		0.977	2121
57	57 PCB-80	2.96e5	0.74	NO	1.08	1.000	36.12	36.12	1.001	1.000	NO	1039		0.885	1039
58	58 PCB-55	2.99e5	0.72	NO	1.07	1.000	36.44	36.45	1.010	1.010	NO	1066		0.898	1066
59	59 PCB-56/60	5.32e5	0.74	NO	0.934	1.000	36.98	36.96	1.024	1.024	NO	2169		1.03	2169
60	60 PCB-79	2.85e5	0.75	NO	1.04	1.000	38.08	38.07	1.055	1.055	NO	1038		0.918	1038
61	61 PCB-78	2.74e5	0.75	NO	1.03	1.000	38.78	38.78	0.987	0.987	NO	1046		0.969	1046
62	62 PCB-81	2.48e5	0.74	NO	0.933	1.000	39.32	39.32	1.000	1.000	NO	1047		1.07	1047
63	63 PCB-77	2.71e5	0.75	NO	1.03	1.000	39.93	39.95	1.000	1.001	NO	1077		1.06	1077
64	64 PCB-104	2.27e5	1.54	NO	0.995	1.000	32.71	32.71	1.001	1.001	NO	1110		0.724	1110
65	65 PCB-96	2.28e5	1.51	NO	0.996	1.000	34.04	34.01	1.041	1.040	NO	1112		0.723	1112
66	66 PCB-103	1.73e5	1.53	NO	0.774	1.000	34.61	34.59	1.059	1.058	NO	1089		0.930	1089
67	67 PCB-100	1.82e5	1.52	NO	0.778	1.000	34.99	34.95	1.070	1.069	NO	1135		0.926	1135
68	68 PCB-94	1.55e5	1.56	NO	0.773	1.000	35.45	35.43	0.985	0.985	NO	1170		1.14	1170

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-2.qld

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Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102	5.95e5	1.55	NO	1.01	1.000	35.92	35.93	0.999	0.999	NO	3421		0.868	3421
70	70 PCB-93	1.34e5	1.52	NO	0.841	1.000	36.05	36.06	1.002	1.003	NO	932.2		1.05	932.2
71	71 PCB-88/91	3.66e5	1.51	NO	0.890	1.000	36.40	36.40	1.012	1.012	NO	2403		0.990	2403
72	72 PCB-121	2.66e5	1.52	NO	1.39	1.000	36.52	36.49	1.015	1.014	NO	1118		0.635	1118
73	73 PCB-84/92	3.30e5	1.61	NO	0.879	1.000	37.35	37.35	0.990	0.990	NO	2259		1.04	2259
74	74 PCB-89	1.82e5	1.58	NO	0.959	1.000	37.53	37.53	0.995	0.995	NO	1140		0.949	1140
75	75 PCB-90/101	3.51e5	1.54	NO	0.944	1.000	37.74	37.74	1.000	1.001	NO	2235		0.964	2235
76	76 PCB-113	2.42e5	1.54	NO	1.23	1.000	37.99	37.98	1.007	1.007	NO	1184		0.740	1184
77	77 PCB-99	1.98e5	1.51	NO	1.12	1.000	38.09	38.07	1.010	1.009	NO	1067		0.813	1067
78	78 PCB-119	2.40e5	1.52	NO	1.47	1.000	38.55	38.56	0.987	0.987	NO	1097		0.712	1097
79	79 PCB-108/112	4.04e5	1.55	NO	1.25	1.000	38.71	38.72	0.991	0.991	NO	2177		0.838	2177
80	80 PCB-83	2.47e5	1.59	NO	1.55	1.000	38.86	38.89	0.995	0.996	NO	1074		0.677	1074
81	81 PCB-97	1.75e5	1.60	NO	1.07	1.000	39.10	39.10	1.001	1.001	NO	1093		0.974	1093
82	82 PCB-86	1.60e5	1.56	NO	0.996	1.000	39.25	39.24	1.005	1.005	NO	1083		1.05	1083
83	83 PCB-87/117/125	6.58e5	1.55	NO	1.33	1.000	39.35	39.38	1.008	1.008	NO	3326		0.786	3326
84	84 PCB-111/115	5.15e5	1.59	NO	1.60	1.000	39.53	39.54	1.012	1.012	NO	2164		0.654	2164
85	85 PCB-85/116	3.99e5	1.57	NO	1.22	1.000	39.65	39.65	1.015	1.015	NO	2207		0.861	2207
86	86 PCB-120	2.68e5	1.61	NO	1.68	1.000	39.92	39.91	1.022	1.022	NO	1072		0.623	1072
87	87 PCB-110	2.53e5	1.56	NO	1.49	1.000	40.06	40.06	1.026	1.026	NO	1148		0.705	1148
88	88 PCB-82	1.45e5	1.53	NO	0.674	1.000	40.70	40.70	0.976	0.975	NO	1172		1.22	1172
89	89 PCB-124	2.37e5	1.62	NO	1.16	1.000	41.42	41.42	0.993	0.993	NO	1111		0.707	1111
90	90 PCB-107/109	4.55e5	1.59	NO	1.17	1.000	41.57	41.57	0.996	0.996	NO	2127		0.705	2127
91	91 PCB-123	2.13e5	1.54	NO	1.04	1.000	41.74	41.74	1.000	1.000	NO	1116		0.790	1116
92	92 PCB-106/118	4.42e5	1.61	NO	1.07	1.000	41.94	41.94	1.001	1.001	NO	2205		0.754	2205
93	93 PCB-114	2.21e5	1.57	NO	1.16	1.000	42.60	42.60	1.000	1.000	NO	1003		1.23	1003
94	94 PCB-122	1.98e5	1.60	NO	0.973	1.000	42.73	42.75	1.003	1.004	NO	1076		1.47	1076
95	95 PCB-105	2.17e5	1.57	NO	1.10	1.000	43.49	43.49	1.000	1.000	NO	979.6		1.24	979.6
96	96 PCB-127	2.43e5	1.55	NO	1.11	1.000	43.85	43.85	1.000	1.000	NO	1034		1.19	1034
97	97 PCB-126	2.64e5	1.63	NO	1.21	1.000	45.80	45.80	1.000	1.000	NO	1012		1.08	1012
98	98 PCB-155	1.66e5	1.24	NO	0.874	1.000	37.25	37.27	1.000	1.001	NO	1117		0.648	1117
99	99 PCB-150	1.74e5	1.31	NO	0.881	1.000	38.58	38.58	1.036	1.036	NO	1169		0.643	1169
100	1... PCB-152	1.86e5	1.26	NO	1.00	1.000	39.09	39.06	1.050	1.049	NO	1093		0.564	1093
101	1... PCB-145	1.88e5	1.26	NO	1.00	1.000	39.55	39.52	1.062	1.061	NO	1111		0.567	1111
102	1... PCB-136	1.65e5	1.26	NO	0.843	1.000	39.88	39.86	1.071	1.070	NO	1153		0.672	1153
103	1... PCB-148	1.33e5	1.27	NO	0.693	1.000	40.02	39.97	1.075	1.073	NO	1127		0.817	1127
104	1... PCB-154	1.37e5	1.29	NO	0.724	1.000	40.52	40.47	1.088	1.087	NO	1116		0.783	1116

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-2.qld

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Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151	1.15e5	1.19	NO	0.632	1.000	41.19	41.14	1.106	1.105	NO	1070		0.896	1070
106	1... PCB-135	1.36e5	1.26	NO	0.716	1.000	41.36	41.37	1.111	1.111	NO	1117		0.791	1117
107	1... PCB-144	1.13e5	1.19	NO	0.667	1.000	41.46	41.48	1.114	1.114	NO	1002		0.850	1002
108	1... PCB-147	1.23e5	1.23	NO	0.661	1.000	41.61	41.61	1.118	1.117	NO	1097		0.857	1097
109	1... PCB-139/149	2.68e5	1.26	NO	0.738	1.000	41.95	41.89	1.127	1.125	NO	2140		0.767	2140
110	1... PCB-140	1.15e5	1.19	NO	0.627	1.000	42.14	42.07	1.132	1.130	NO	1081		0.903	1081
111	1... PCB-134/143	2.89e5	1.24	NO	0.733	1.000	42.55	42.52	0.975	0.974	NO	2046		1.32	2046
112	1... PCB-131/133	3.17e5	1.21	NO	0.790	1.000	42.83	42.85	0.982	0.982	NO	2084		1.22	2084
113	1... PCB-142	1.44e5	1.28	NO	0.708	1.000	42.99	43.00	0.985	0.985	NO	1056		1.37	1056
114	1... PCB-146/165	3.86e5	1.21	NO	0.959	1.000	43.24	43.22	0.991	0.990	NO	2092		1.01	2092
115	1... PCB-132/161	3.89e5	1.20	NO	0.974	1.000	43.48	43.47	0.996	0.996	NO	2076		0.993	2076
116	1... PCB-153	2.05e5	1.22	NO	1.01	1.000	43.66	43.66	1.000	1.000	NO	1052		0.956	1052
117	1... PCB-168	2.12e5	1.22	NO	1.02	1.000	43.89	43.89	1.006	1.006	NO	1082		0.949	1082
118	1... PCB-141	1.74e5	1.28	NO	0.967	1.000	44.42	44.42	1.000	1.000	NO	1060		1.14	1060
119	1... PCB-137	1.83e5	1.23	NO	0.987	1.000	44.80	44.82	1.009	1.009	NO	1092		1.12	1092
120	1... PCB-130	1.54e5	1.21	NO	0.840	1.000	44.91	44.93	1.012	1.012	NO	1082		1.32	1082
121	1... PCB-138/163/164	6.99e5	1.24	NO	1.23	1.000	45.31	45.31	1.001	1.001	NO	3206		0.838	3206
122	1... PCB-158/160	4.45e5	1.22	NO	1.18	1.000	45.56	45.56	1.006	1.006	NO	2125		0.872	2125
123	1... PCB-129	1.53e5	1.24	NO	0.819	1.000	45.81	45.80	1.012	1.012	NO	1048		1.25	1048
124	1... PCB-166	2.44e5	1.21	NO	1.07	1.000	46.28	46.27	0.993	0.993	NO	1086		0.861	1086
125	1... PCB-159	2.50e5	1.26	NO	1.12	1.000	46.62	46.62	1.000	1.000	NO	1061		0.822	1061
126	1... PCB-128/162	3.95e5	1.23	NO	0.851	1.000	46.90	46.92	1.007	1.007	NO	2207		1.08	2207
127	1... PCB-167	2.32e5	1.23	NO	1.04	1.000	47.32	47.32	1.000	1.000	NO	1056		0.863	1056
128	1... PCB-156	2.36e5	1.24	NO	1.06	1.000	48.64	48.66	1.000	1.001	NO	1103		0.918	1103
129	1... PCB-157	2.17e5	1.22	NO	0.978	1.000	48.95	48.93	1.001	1.000	NO	1054		0.929	1054
130	1... PCB-169	2.43e5	1.23	NO	1.11	1.000	51.20	51.20	1.000	1.000	NO	1043		0.830	1043
131	1... PCB-188	2.20e5	1.05	NO	1.19	1.000	43.30	43.28	1.001	1.000	NO	1084		1.05	1084
132	1... PCB-184	2.19e5	1.03	NO	1.17	1.000	43.75	43.74	1.011	1.011	NO	1103		1.07	1103
133	1... PCB-179	2.45e5	1.04	NO	1.18	1.000	44.56	44.53	1.030	1.029	NO	1225		1.06	1225
134	1... PCB-176	2.46e5	1.05	NO	1.16	1.000	45.03	45.02	1.041	1.041	NO	1248		1.08	1248
135	1... PCB-186	2.60e5	1.05	NO	1.22	1.000	45.65	45.65	1.055	1.055	NO	1254		1.02	1254
136	1... PCB-178	1.71e5	1.05	NO	0.830	1.000	46.16	46.16	1.067	1.067	NO	1210		1.50	1210
137	1... PCB-175	1.72e5	1.03	NO	0.849	1.000	46.52	46.52	1.075	1.075	NO	1191		1.47	1191
138	1... PCB-182/187	3.90e5	1.02	NO	0.960	1.000	46.72	46.71	1.080	1.080	NO	2385		1.30	2385
139	1... PCB-183	1.95e5	1.07	NO	0.957	1.000	47.05	47.03	1.088	1.087	NO	1197		1.30	1197
140	1... PCB-185	1.73e5	1.02	NO	1.32	1.000	47.72	47.69	0.955	0.954	NO	1156		1.43	1156

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Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174	1.65e5	1.03	NO	1.22	1.000	48.09	48.07	0.962	0.962	NO	1194		1.55	1194
142	1... PCB-181	1.88e5	1.04	NO	1.41	1.000	48.19	48.19	0.964	0.964	NO	1171		1.33	1171
143	1... PCB-177	1.57e5	1.02	NO	1.24	1.000	48.36	48.36	0.968	0.968	NO	1113		1.52	1113
144	1... PCB-171	1.64e5	1.08	NO	1.24	1.000	48.66	48.66	0.974	0.974	NO	1160		1.52	1160
145	1... PCB-173	1.47e5	1.07	NO	1.14	1.000	49.10	49.10	0.983	0.983	NO	1135		1.65	1135
146	1... PCB-172	1.73e5	1.05	NO	1.31	1.000	49.58	49.57	0.992	0.992	NO	1163		1.44	1163
147	1... PCB-192	2.20e5	1.04	NO	1.70	1.000	49.78	49.76	0.996	0.996	NO	1140		1.11	1140
148	1... PCB-180	1.77e5	1.05	NO	1.32	1.000	49.99	49.99	1.000	1.000	NO	1179		1.43	1179
149	1... PCB-193	2.11e5	1.04	NO	1.54	1.000	50.22	50.20	1.005	1.005	NO	1206		1.23	1206
150	1... PCB-191	2.12e5	1.04	NO	1.57	1.000	50.46	50.46	1.010	1.010	NO	1189		1.20	1189
151	1... PCB-170	1.58e5	1.02	NO	1.36	1.000	51.64	51.64	1.000	1.000	NO	1050		1.30	1050
152	1... PCB-190	2.17e5	1.03	NO	1.84	1.000	51.82	51.85	1.004	1.004	NO	1065		0.960	1065
153	1... PCB-189	2.22e5	1.05	NO	1.33	1.000	53.32	53.32	1.000	1.000	NO	1082		0.882	1082
154	1... PCB-202	1.68e5	0.91	NO	1.02	1.000	48.89	48.87	1.001	1.000	NO	1159		0.650	1159
155	1... PCB-201	1.54e5	0.91	NO	0.915	1.000	49.38	49.36	1.011	1.010	NO	1190		0.727	1190
156	1... PCB-204	1.63e5	0.91	NO	0.979	1.000	49.53	49.53	1.014	1.014	NO	1177		0.680	1177
157	1... PCB-197	1.59e5	0.93	NO	0.979	1.000	49.85	49.84	1.020	1.020	NO	1144		0.680	1144
158	1... PCB-200	1.63e5	0.93	NO	0.954	1.000	50.80	50.78	1.040	1.040	NO	1203		0.697	1203
159	1... PCB-198	1.31e5	0.88	NO	0.748	1.000	52.32	52.32	1.071	1.071	NO	1232		0.889	1232
160	1... PCB-199	1.30e5	0.89	NO	0.706	1.000	52.43	52.43	1.073	1.073	NO	1297		0.943	1297
161	1... PCB-196/203	2.74e5	0.84	NO	0.785	1.000	52.89	52.74	1.083	1.080	NO	2465		0.848	2465
162	1... PCB-195	1.61e5	0.90	NO	1.03	1.000	54.00	54.01	0.984	0.984	NO	1043		0.622	1043
163	1... PCB-194	1.79e5	0.91	NO	1.16	1.000	54.92	54.92	1.000	1.000	NO	1036		0.556	1036
164	1... PCB-205	2.22e5	0.90	NO	1.40	1.000	55.18	55.19	1.005	1.005	NO	1065		0.459	1065
165	1... PCB-208	1.84e5	1.34	NO	0.934	1.000	54.16	54.15	1.000	1.000	NO	1046		0.857	1046
166	1... PCB-207	1.80e5	1.33	NO	0.912	1.000	54.48	54.49	1.006	1.006	NO	1051		0.877	1051
167	1... PCB-206	1.35e5	1.32	NO	0.987	1.000	56.45	56.45	1.000	1.000	NO	1057		1.12	1057
168	1... PCB-209	1.54e5	1.24	NO	0.943	1.000	57.65	57.67	1.000	1.000	NO	1072		0.210	1072
169	1... 13C-PCB-1	6.31e5	3.51	NO	1.08	1.000	15.68	15.69	0.609	0.609	NO	1439	71.9	2.34	
170	1... 13C-PCB-3	6.05e5	3.60	NO	1.09	1.000	18.35	18.35	0.712	0.713	NO	1363	68.1	2.31	
171	1... 13C-PCB-4	3.44e5	1.60	NO	0.640	1.000	19.71	19.71	0.765	0.766	NO	1319	66.0	0.824	
172	1... 13C-PCB-9	5.89e5	1.58	NO	0.995	1.000	21.55	21.55	0.837	0.837	NO	1454	72.7	0.529	
173	1... 13C-PCB-11	5.63e5	1.61	NO	0.971	1.000	25.03	25.03	0.972	0.972	NO	1423	71.2	0.543	
174	1... 13C-PCB-19	3.88e5	0.97	NO	0.637	1.000	23.97	23.97	0.931	0.931	NO	1496	74.8	11.9	
175	1... 13C-PCB-32	5.56e5	0.98	NO	0.910	1.000	26.99	26.99	1.048	1.048	NO	1502	75.1	8.35	
176	1... 13C-PCB-28	5.61e5	1.01	NO	1.07	1.000	28.99	29.01	1.003	1.004	NO	1433	71.7	9.45	



Dataset: U:\VG11.PRO\Results\191106K1\191106K1-2.qld

Last Altered: Thursday, November 07, 2019 10:04:02 Pacific Standard Time

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Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	5.09e5	1.01	NO	0.959	1.000	32.99	33.01	1.141	1.142	NO	1450	72.5	10.5	
178	1... 13C-PCB-54	4.83e5	0.77	NO	1.10	1.000	27.84	27.84	0.754	0.754	NO	1287	64.3	2.41	
179	1... 13C-PCB-52	4.17e5	0.75	NO	0.844	1.000	31.50	31.50	0.853	0.853	NO	1445	72.2	3.13	
180	1... 13C-PCB-47	4.32e5	0.76	NO	0.893	1.000	32.02	32.02	0.867	0.867	NO	1414	70.7	2.96	
181	1... 13C-PCB-70	4.90e5	0.78	NO	1.01	1.000	35.65	35.67	0.965	0.966	NO	1421	71.1	2.62	
182	1... 13C-PCB-80	5.25e5	0.76	NO	1.05	1.000	36.08	36.10	0.977	0.977	NO	1469	73.5	2.53	
183	1... 13C-PCB-81	5.08e5	0.75	NO	0.985	1.000	39.30	39.30	1.064	1.064	NO	1508	75.4	2.69	
184	1... 13C-PCB-77	4.87e5	0.77	NO	0.958	1.000	39.91	39.91	1.080	1.081	NO	1487	74.4	2.76	
185	1... 13C-PCB-104	4.11e5	1.51	NO	1.10	1.000	32.70	32.69	0.827	0.827	NO	1397	69.8	0.776	
186	1... 13C-PCB-95	3.43e5	1.61	NO	0.852	1.000	35.98	35.97	0.910	0.910	NO	1499	75.0	0.999	
187	1... 13C-PCB-101	3.32e5	1.64	NO	0.814	1.000	37.73	37.72	0.955	0.954	NO	1522	76.1	1.05	
188	1... 13C-PCB-97	2.97e5	1.62	NO	0.709	1.000	39.07	39.06	0.989	0.988	NO	1560	78.0	1.20	
189	1... 13C-PCB-123	3.67e5	1.61	NO	0.922	1.000	41.71	41.72	1.055	1.056	NO	1484	74.2	0.924	
190	1... 13C-PCB-118	3.75e5	1.60	NO	0.975	1.000	41.90	41.90	1.060	1.060	NO	1431	71.6	0.873	
191	1... 13C-PCB-114	3.79e5	1.59	NO	1.52	1.000	42.58	42.58	0.908	0.908	NO	1281	64.0	1.01	
192	1... 13C-PCB-105	4.02e5	1.60	NO	1.58	1.000	43.47	43.47	0.927	0.927	NO	1304	65.2	0.965	
193	1... 13C-PCB-127	4.24e5	1.58	NO	1.62	1.000	43.83	43.83	0.935	0.935	NO	1343	67.1	0.942	
194	1... 13C-PCB-126	4.31e5	1.58	NO	1.45	1.000	45.78	45.78	0.976	0.977	NO	1531	76.6	1.06	
195	1... 13C-PCB-155	3.39e5	1.31	NO	1.03	1.000	37.24	37.24	0.942	0.942	NO	1231	61.6	0.477	
196	1... 13C-PCB-153	3.85e5	1.26	NO	1.42	1.000	43.64	43.64	0.931	0.931	NO	1389	69.4	1.06	
197	1... 13C-PCB-141	3.40e5	1.27	NO	1.14	1.000	44.42	44.40	0.947	0.947	NO	1528	76.4	1.32	
198	1... 13C-PCB-138	3.56e5	1.21	NO	1.18	1.000	45.27	45.27	0.966	0.966	NO	1549	77.5	1.28	
199	1... 13C-PCB-159	4.21e5	1.32	NO	1.43	1.000	46.62	46.60	0.994	0.994	NO	1509	75.5	1.05	
200	2... 13C-PCB-167	4.21e5	1.24	NO	1.42	1.000	47.32	47.30	1.009	1.009	NO	1521	76.0	1.06	
201	2... 13C-PCB-156	4.04e5	1.26	NO	1.40	1.000	48.64	48.62	1.038	1.037	NO	1487	74.4	1.08	
202	2... 13C-PCB-157	4.21e5	1.28	NO	1.41	1.000	48.93	48.91	1.044	1.043	NO	1539	76.9	1.07	
203	2... 13C-PCB-169	4.20e5	1.23	NO	1.35	1.000	51.20	51.18	1.092	1.092	NO	1603	80.2	1.12	
204	2... 13C-PCB-188	3.40e5	0.44	NO	1.46	1.000	43.24	43.26	0.926	0.927	NO	1416	70.8	0.997	
205	2... 13C-PCB-180	2.27e5	0.47	NO	0.932	1.000	49.95	49.97	1.070	1.070	NO	1483	74.2	1.57	
206	2... 13C-PCB-170	2.21e5	0.47	NO	0.796	1.000	51.62	51.62	1.106	1.106	NO	1691	84.6	1.83	
207	2... 13C-PCB-189	3.08e5	0.45	NO	1.09	1.000	53.30	53.30	1.142	1.142	NO	1718	85.9	1.34	
208	2... 13C-PCB-202	2.83e5	0.88	NO	1.45	1.000	48.85	48.85	1.046	1.046	NO	1189	59.5	0.542	
209	2... 13C-PCB-194	2.98e5	0.90	NO	0.714	1.000	54.92	54.90	0.995	0.995	NO	1548	77.4	1.08	
210	2... 13C-PCB-208	3.76e5	0.79	NO	0.896	1.000	54.16	54.14	0.982	0.981	NO	1556	77.8	0.873	
211	2... 13C-PCB-206	2.58e5	0.78	NO	0.653	1.000	56.44	56.44	1.023	1.023	NO	1467	73.3	1.20	
212	2... 13C-PCB-209	3.05e5	1.24	NO	0.806	1.000	57.67	57.65	1.045	1.045	NO	1405	70.2	0.298	

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Last Altered: Thursday, November 07, 2019 10:04:02 Pacific Standard Time

Printed: Thursday, November 07, 2019 10:04:35 Pacific Standard Time

Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

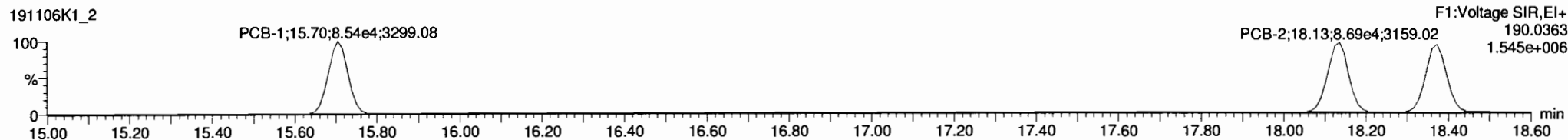
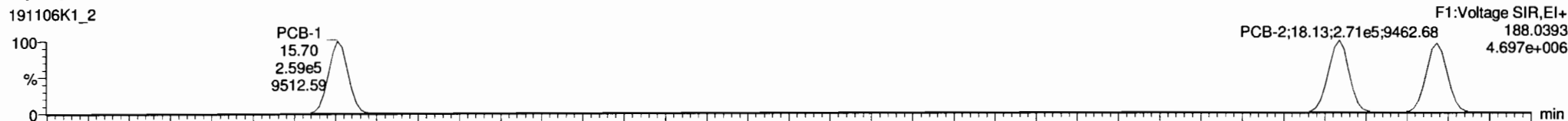
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214	2... 13C-PCB-31	7.32e5	1.02	NO	1.00	1.000	28.90	28.90	1.000	0.000	NO	2000	100	10.1	
215	2... 13C-PCB-60	6.84e5	0.79	NO	1.00	1.000	36.94	36.94	1.000	0.000	NO	2000	100	2.64	
216	2... 13C-PCB-111	5.37e5	1.65	NO	1.00	1.000	39.51	39.52	1.000	0.000	NO	2000	100	0.851	
217	2... 13C-PCB-128	3.89e5	1.29	NO	1.00	1.000	46.86	46.88	1.000	0.000	NO	2000	100	1.51	
218	2... 13C-PCB-182	3.29e5	0.45	NO	1.00	1.000	46.69	46.69	0.000	0.000	NO	2000	100	1.46	
219	2... 13C-PCB-205	5.40e5	0.91	NO	1.00	1.000	55.16	55.18	1.000	0.000	NO	2000	100	0.769	
220	2... 13C-PCB-79	5.77e5	0.75	NO	1.03	1.000	38.07	38.05	1.031	1.030	NO	1636	81.8	2.56	
221	2... 13C-PCB-178	2.72e5	0.43	NO	0.875	1.000	46.14	46.14	0.988	0.988	NO	1598	79.9	1.42	
222	2... 13C-PCB-79	5.77e5	0.75	NO	1.05	1.000	38.02	38.05	0.967	0.968	NO	2175	109	3.44	
223	2... 13C-PCB-178	2.72e5	0.43	NO	0.975	1.000	46.15	46.14	0.924	0.923	NO	2456	123	2.22	

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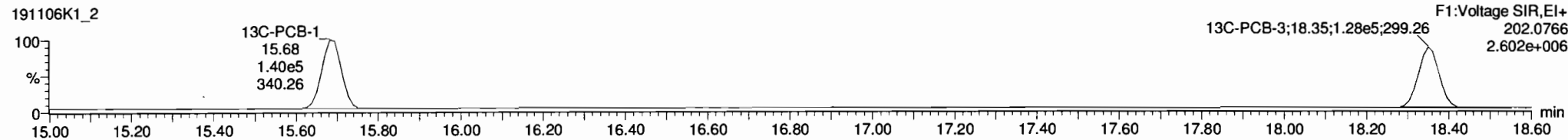
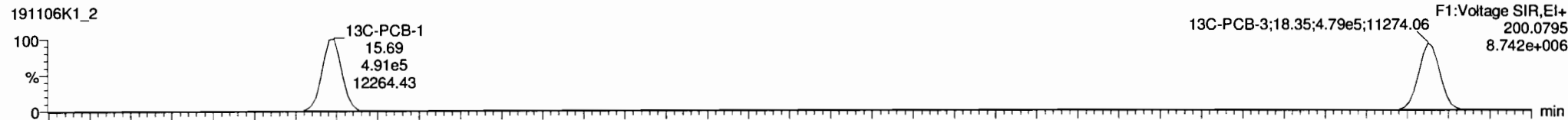
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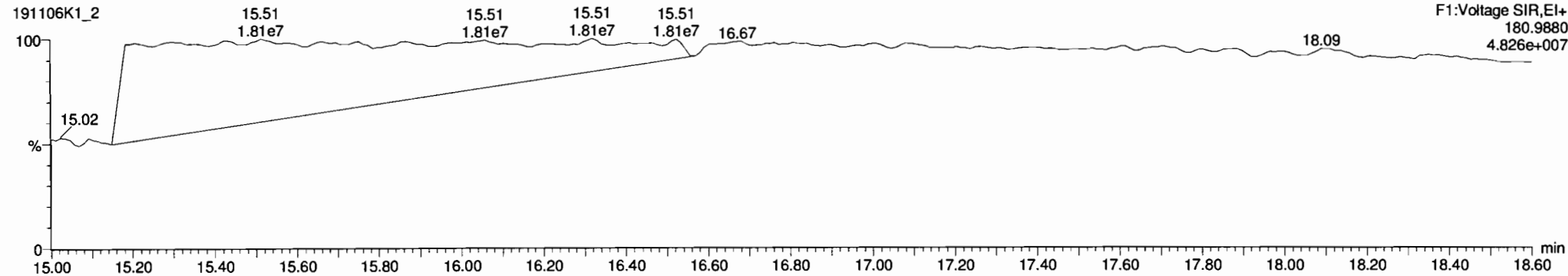
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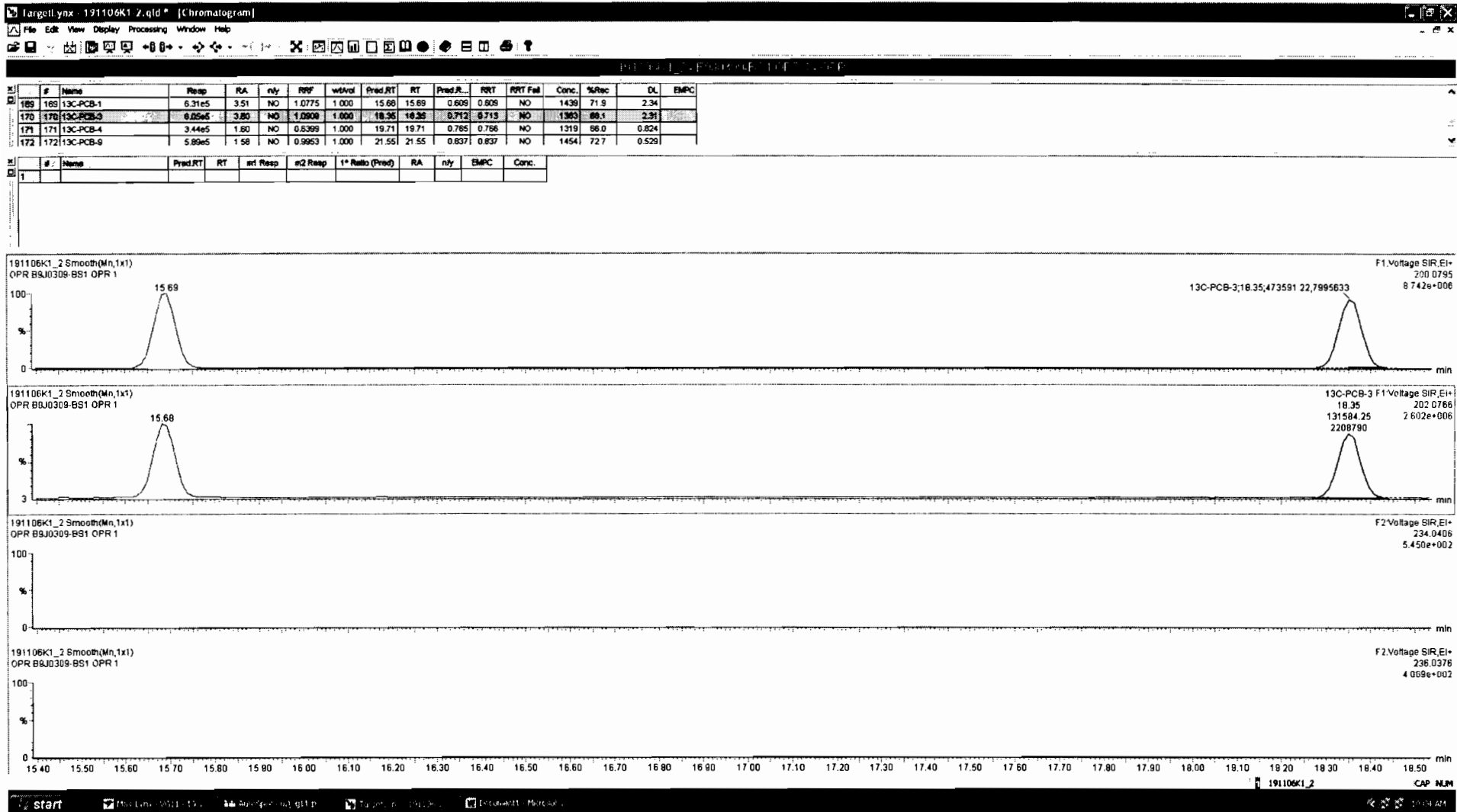


**13C-PCB-1**



**PFK1**





Vista Analytical Laboratory VG-11

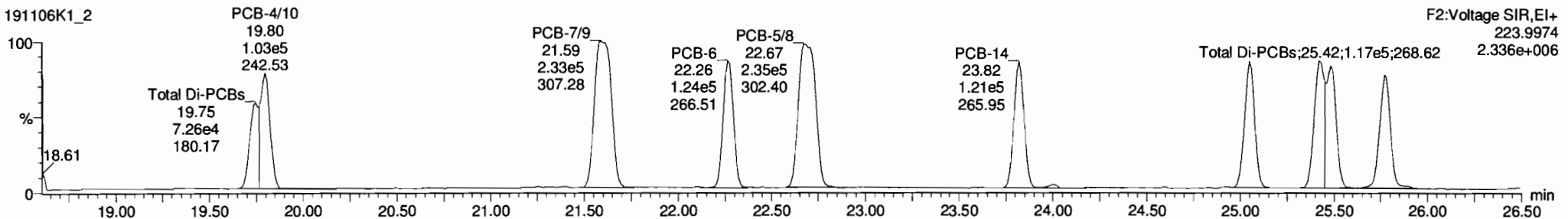
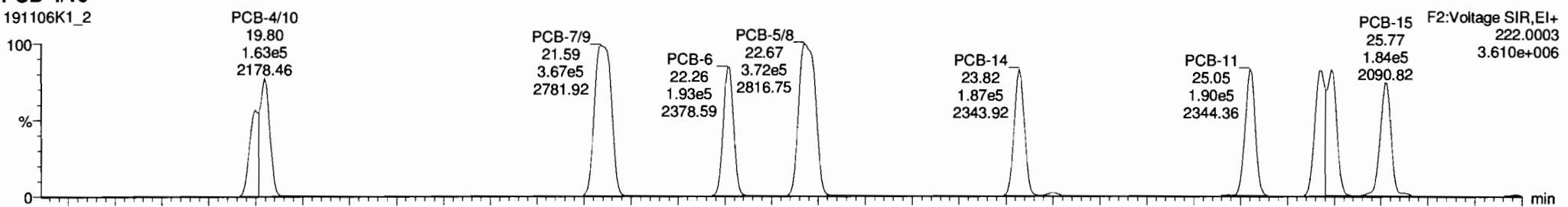
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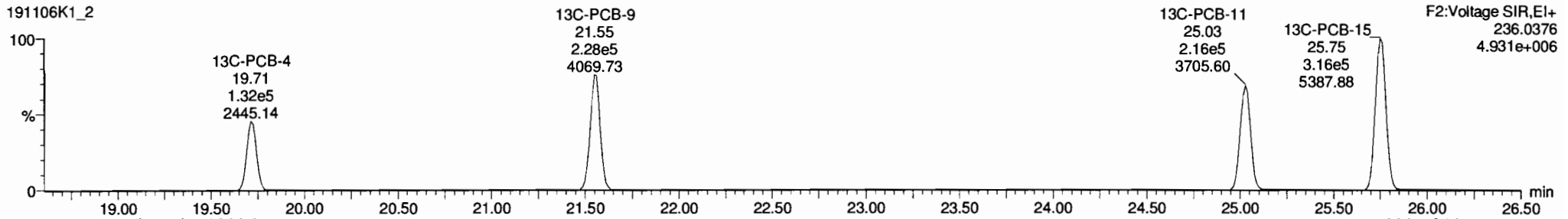
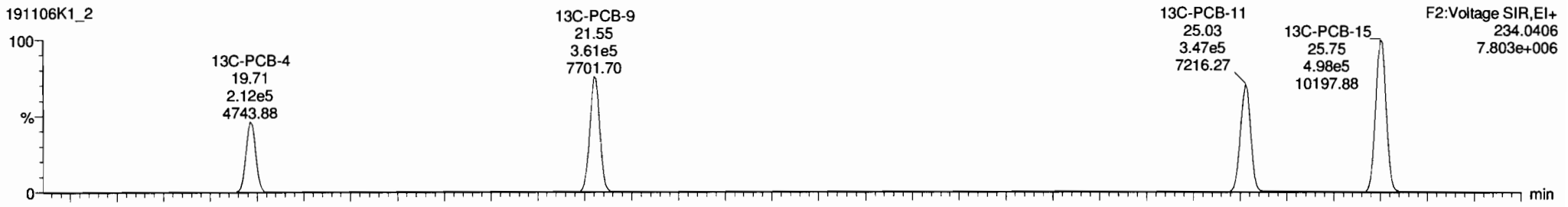
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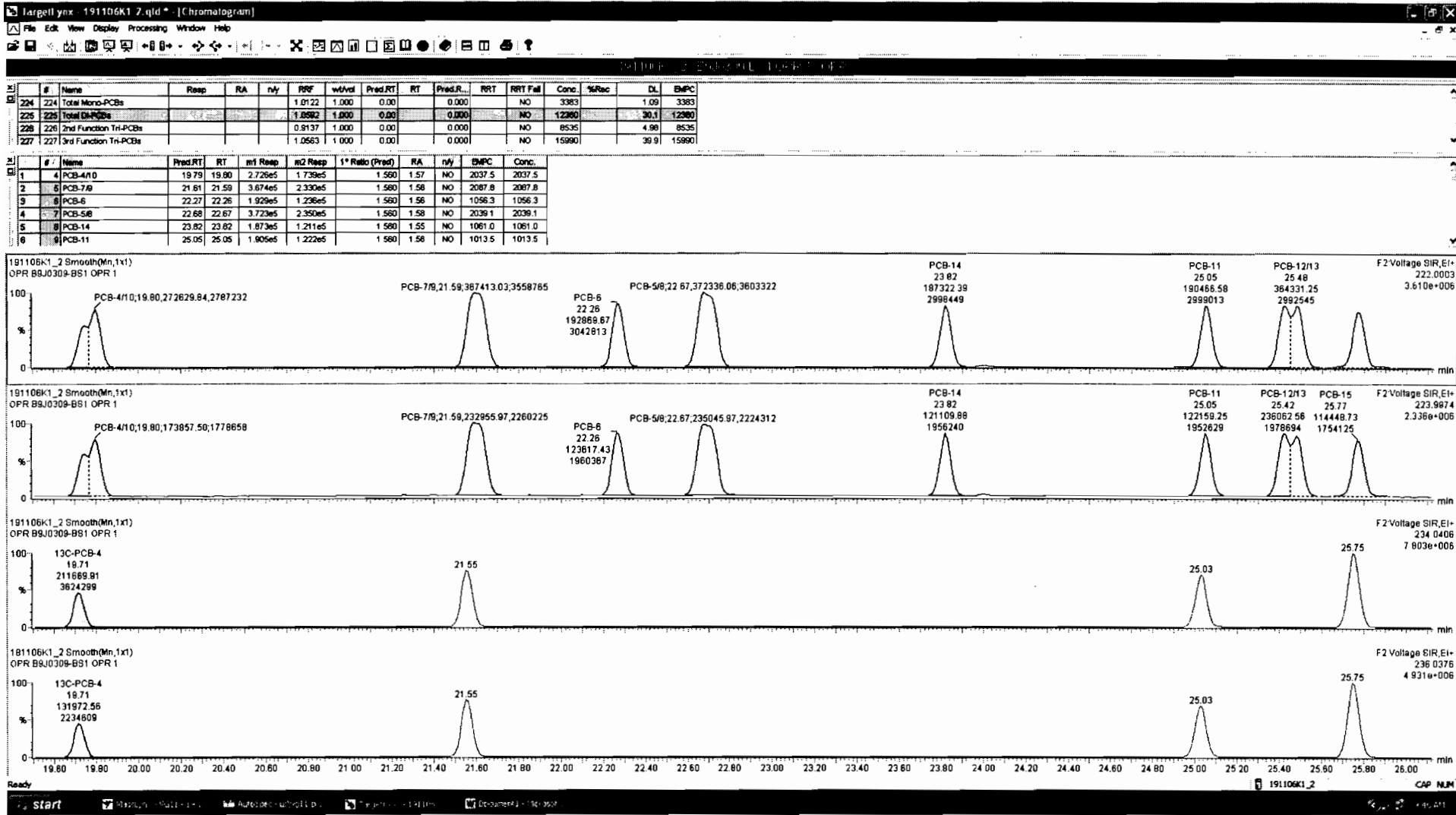
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PCB-4/10



13C-PCB-4



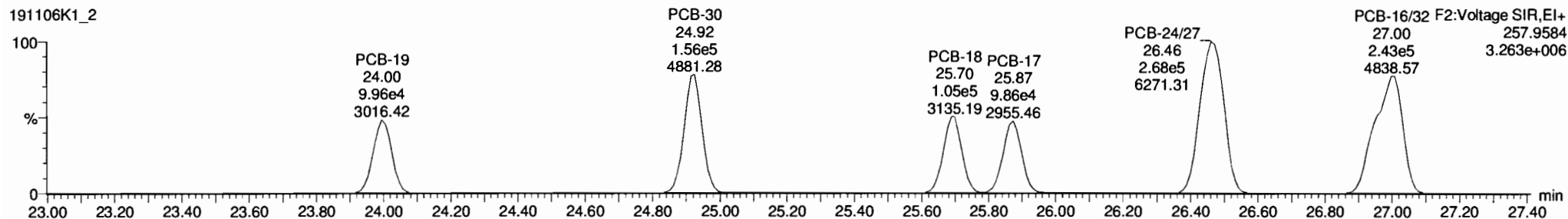
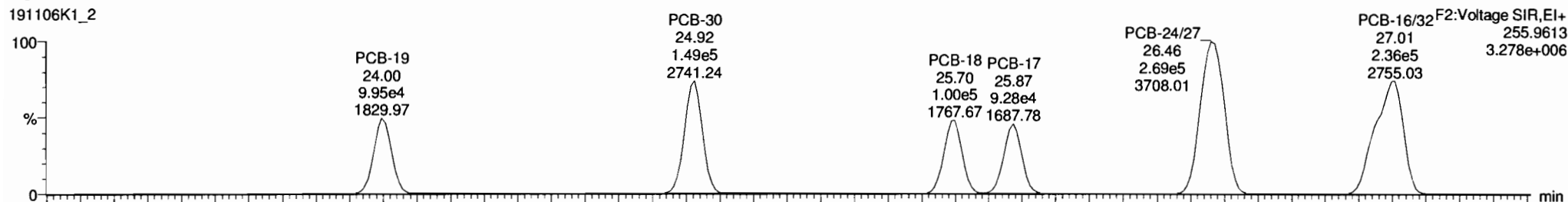


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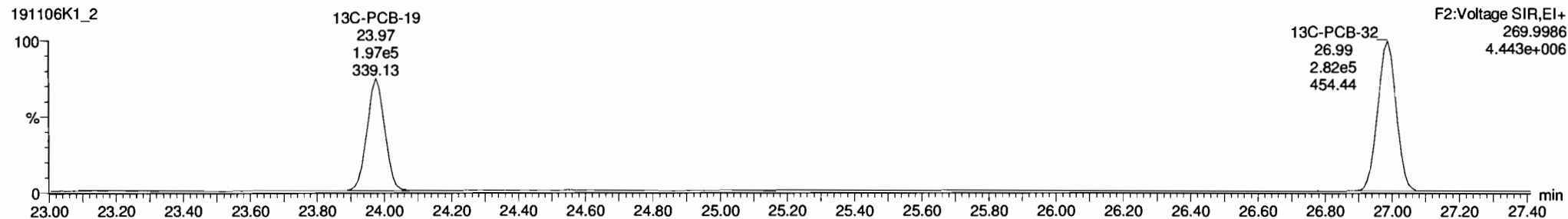
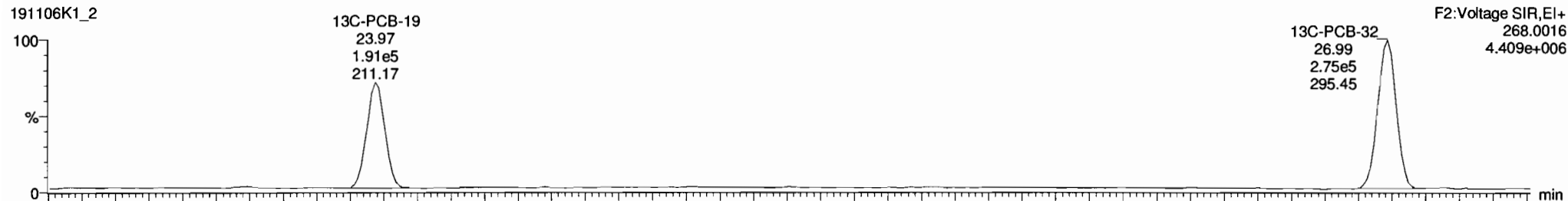
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PCB-19



13C-PCB-19

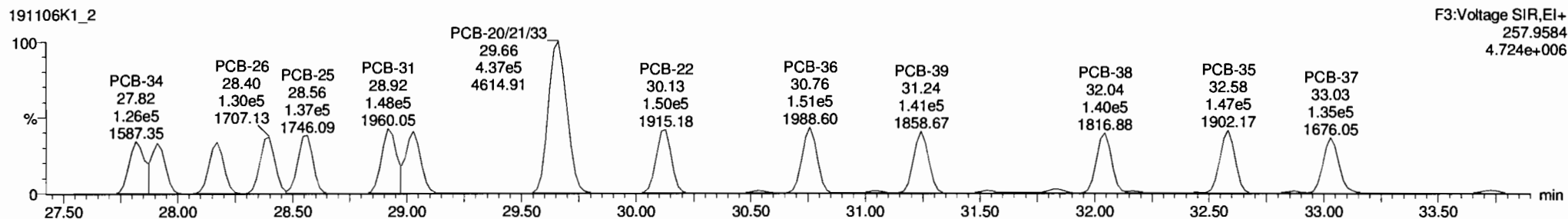
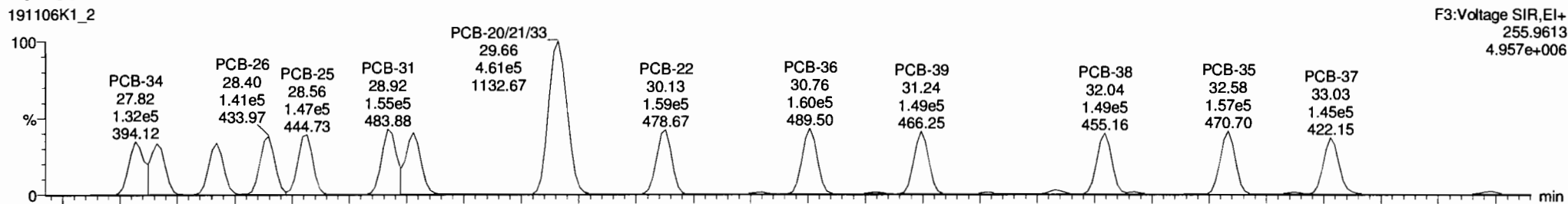


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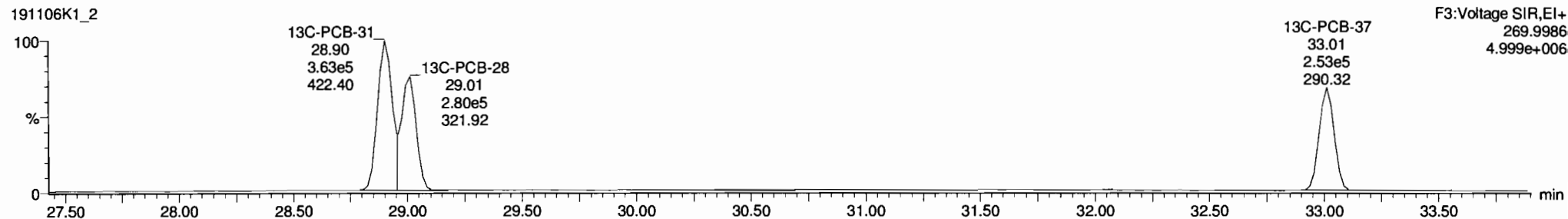
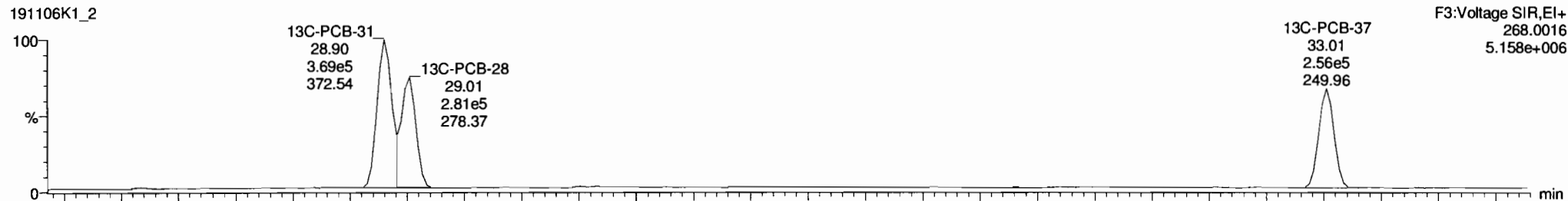
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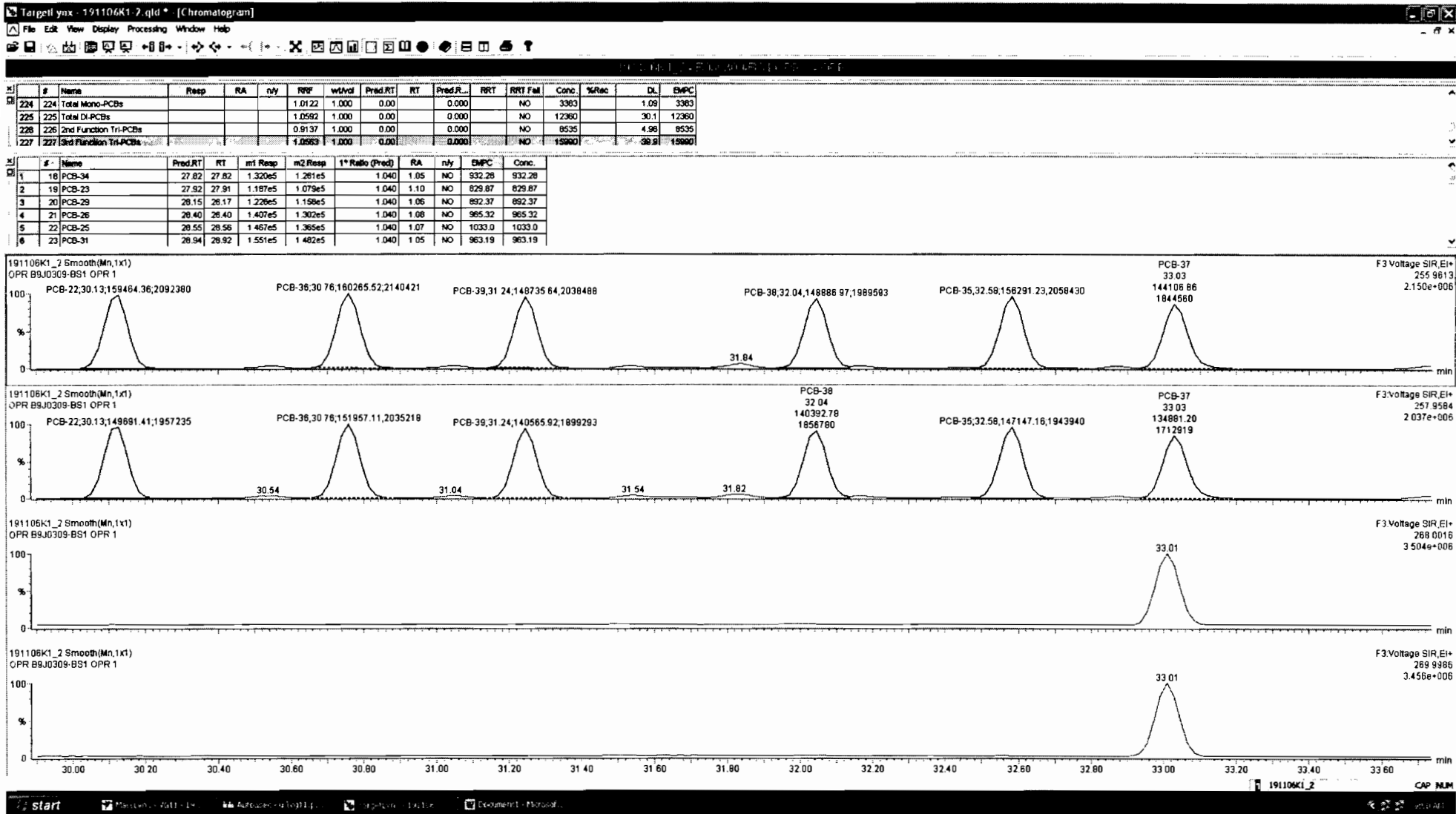
PCB-34



13C-PCB-28





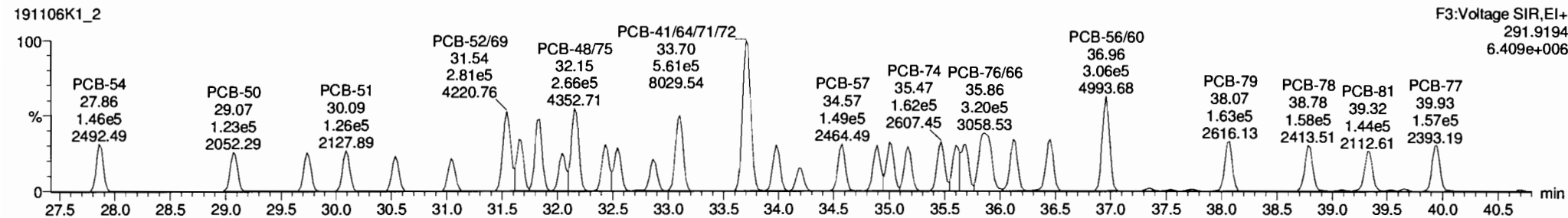
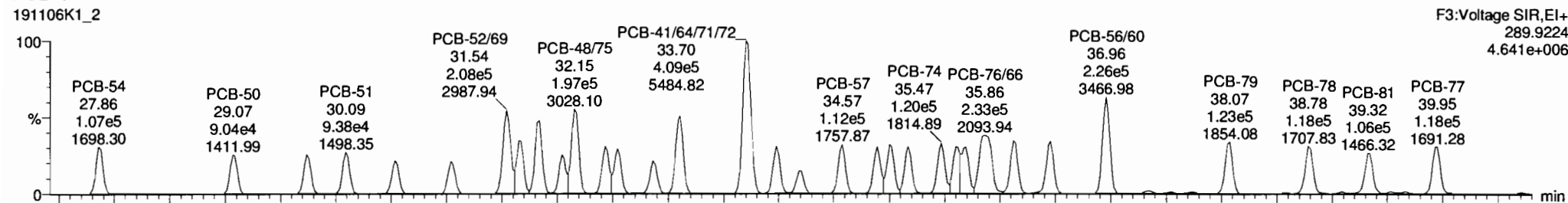


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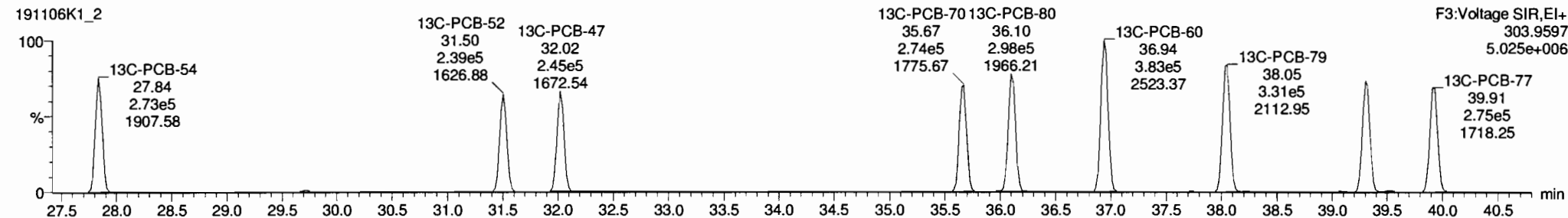
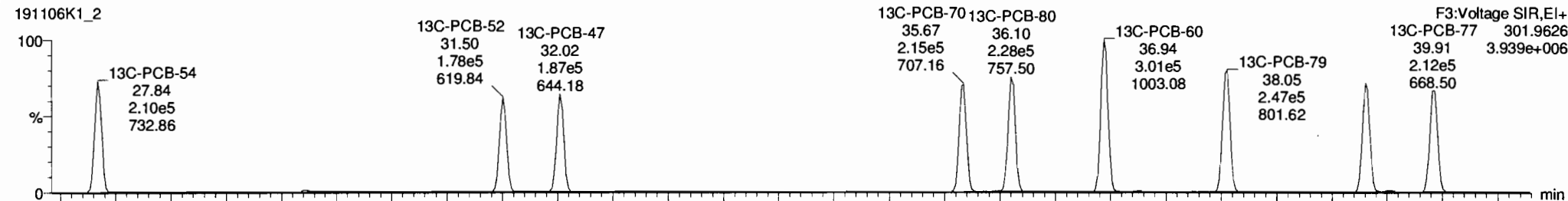
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**PCB-54**



**13C-PCB-54**



Vista Analytical Laboratory VG-11

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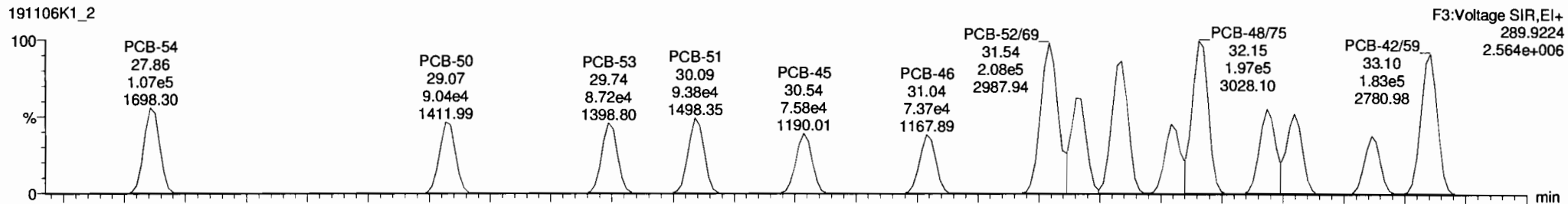
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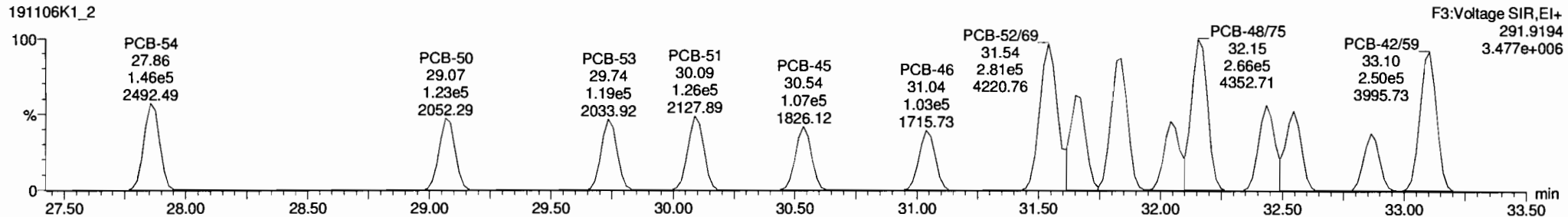
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PCB-50

191106K1\_2

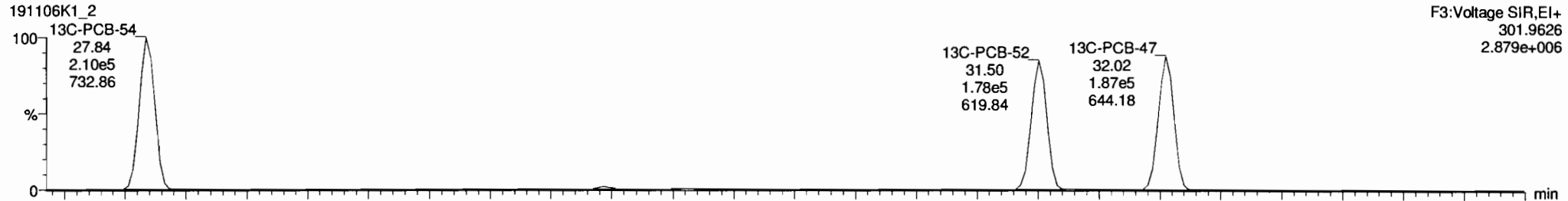


191106K1\_2

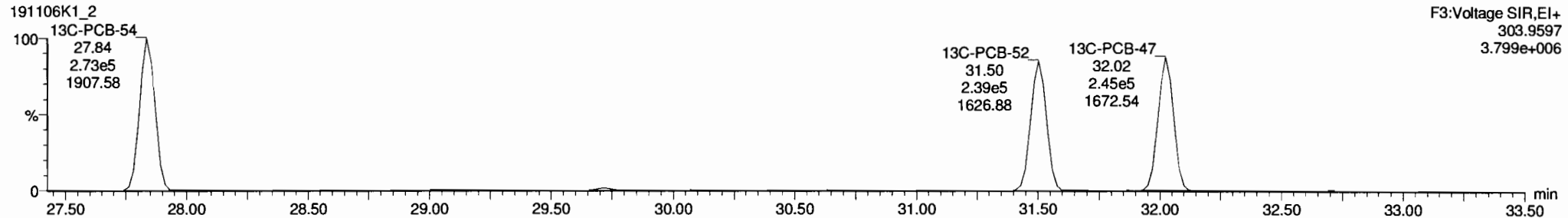


13C-PCB-52

191106K1\_2



191106K1\_2

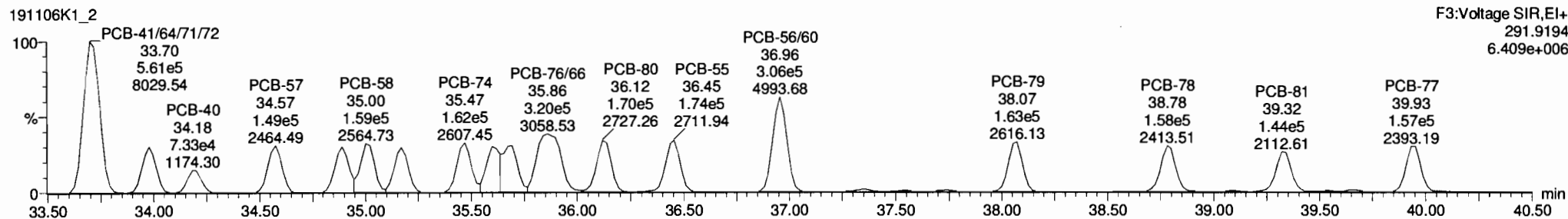
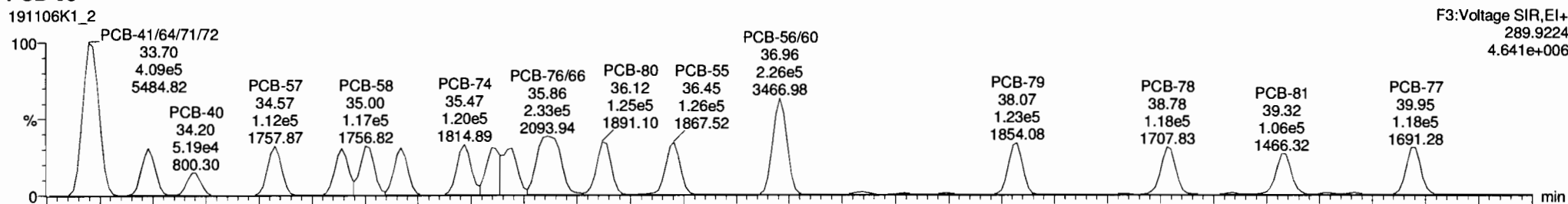


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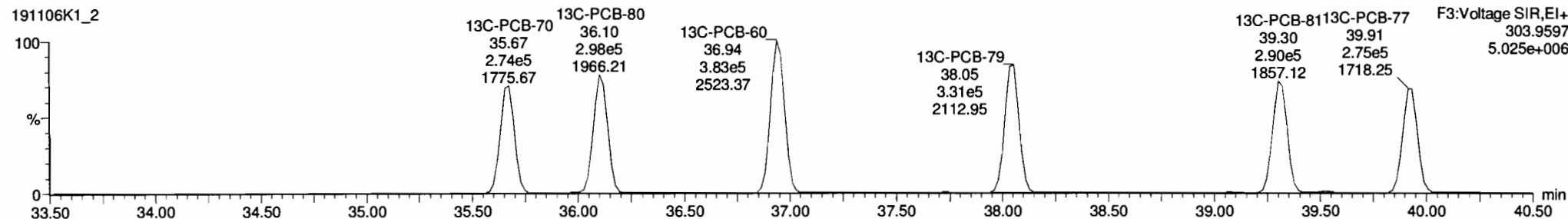
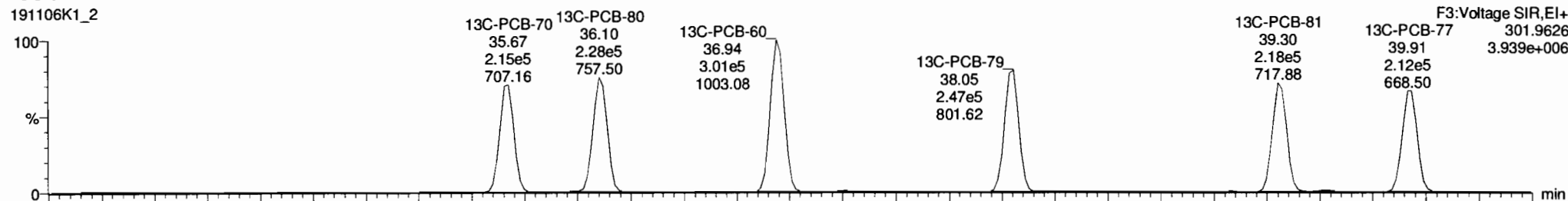
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Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

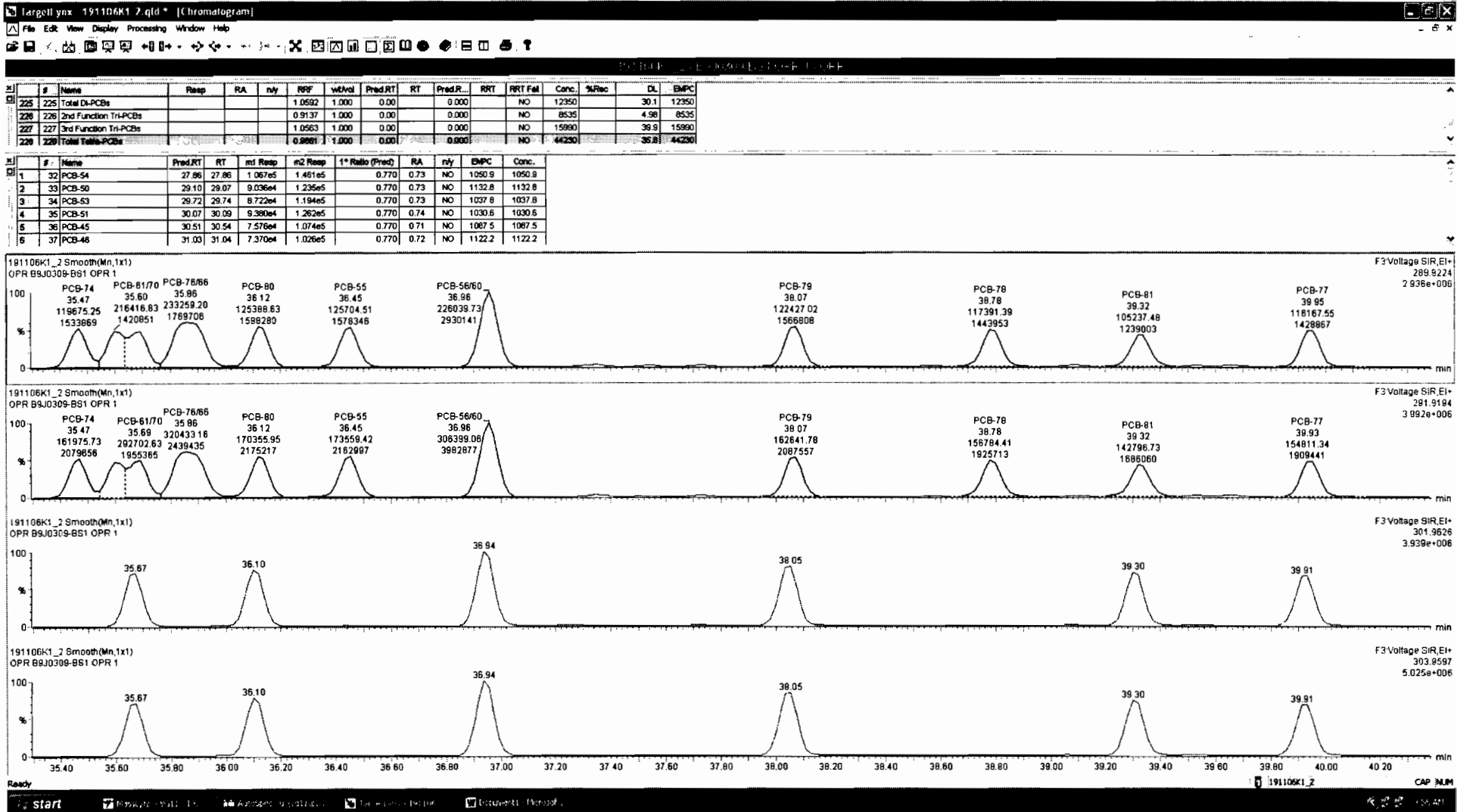
Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

PCB-68



13C-PCB-60





Dataset: Untitled

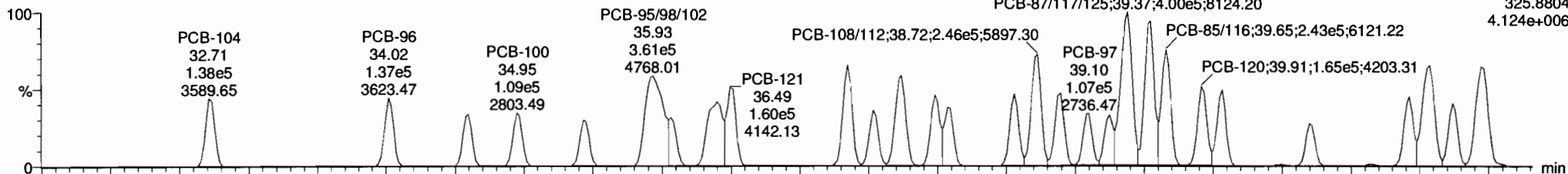
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

PCB-104

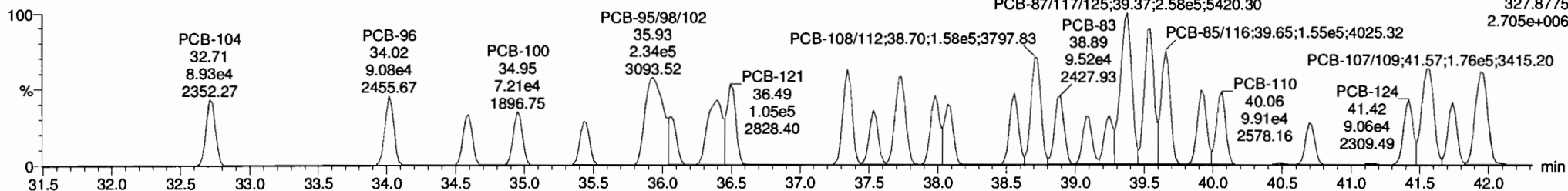
191106K1\_2

F3:Voltage SIR,EI+  
325.8804  
4.124e+006



191106K1\_2

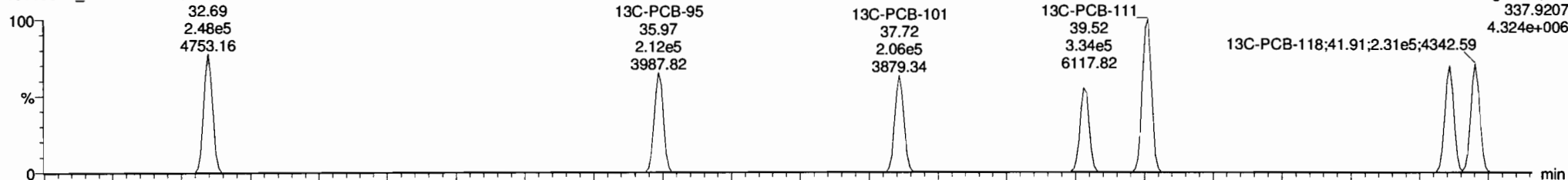
F3:Voltage SIR,EI+  
327.8775  
2.705e+006



13C-PCB-104

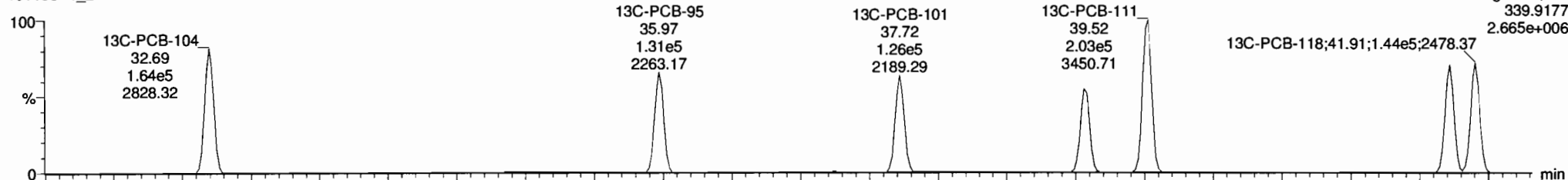
191106K1\_2

F3:Voltage SIR,EI+  
337.9207  
4.324e+006



191106K1\_2

F3:Voltage SIR,EI+  
339.9177  
2.665e+006

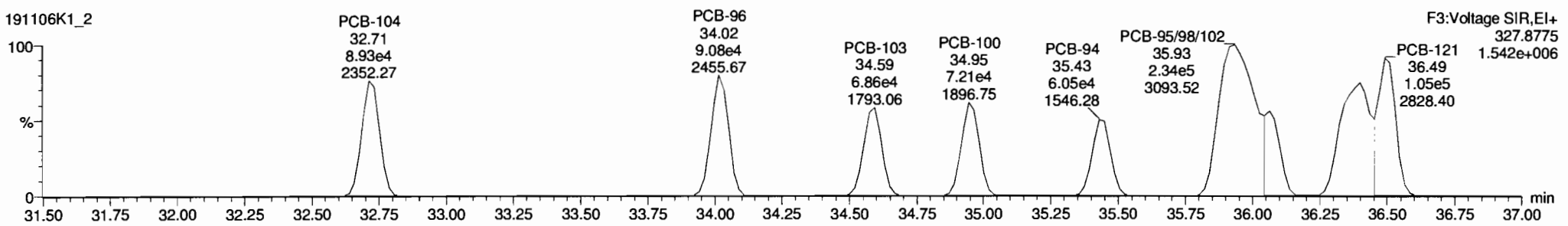
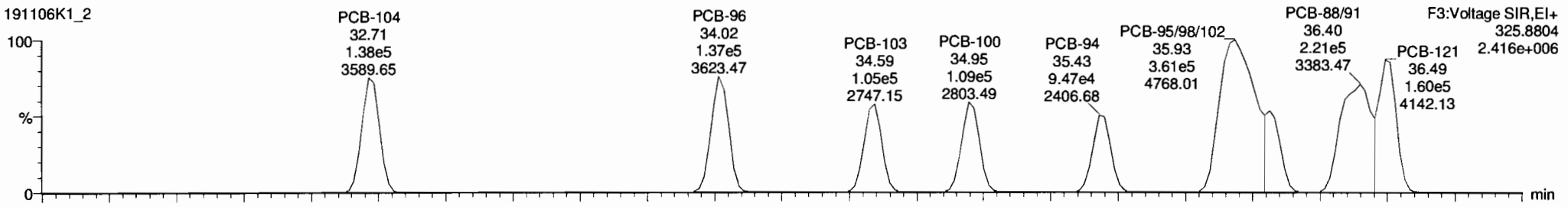


Dataset: Untitled

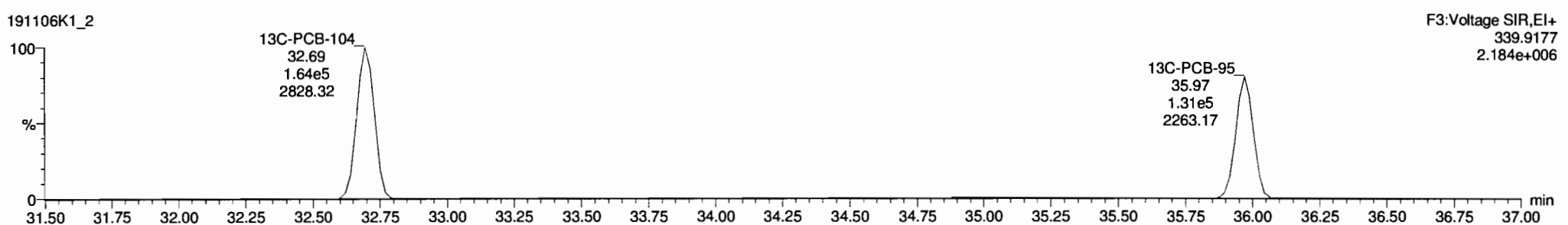
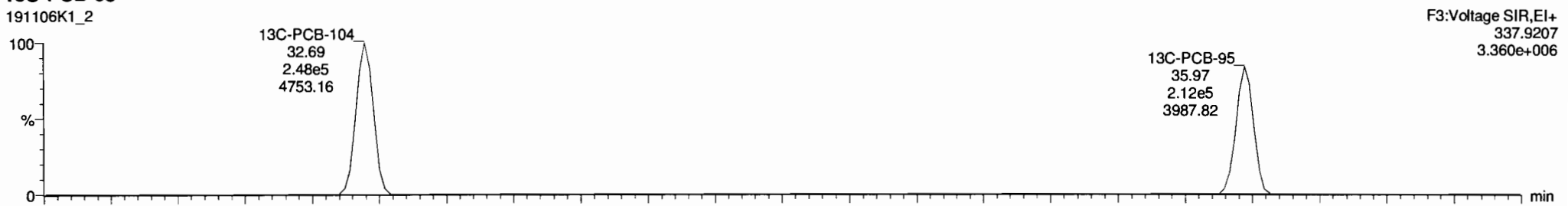
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

**PCB-96**



**13C-PCB-95**

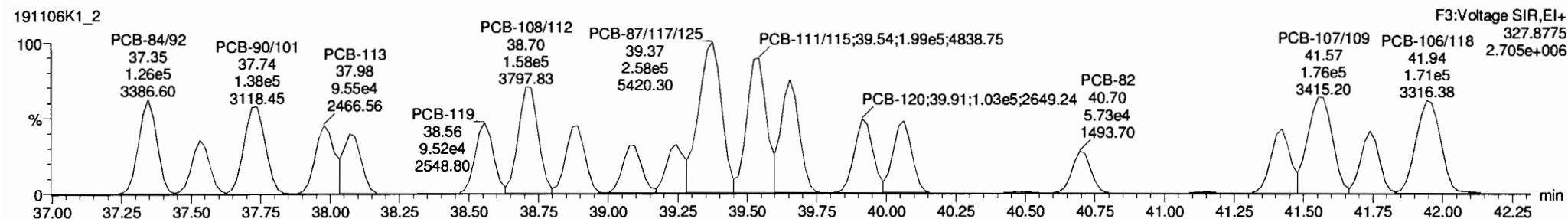
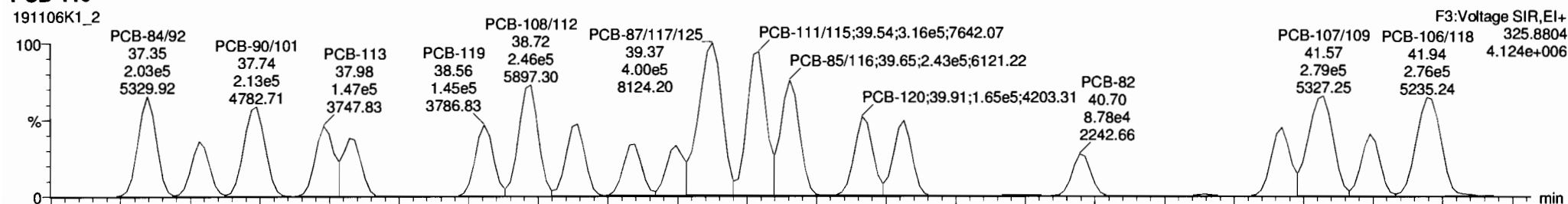


Dataset: Untitled

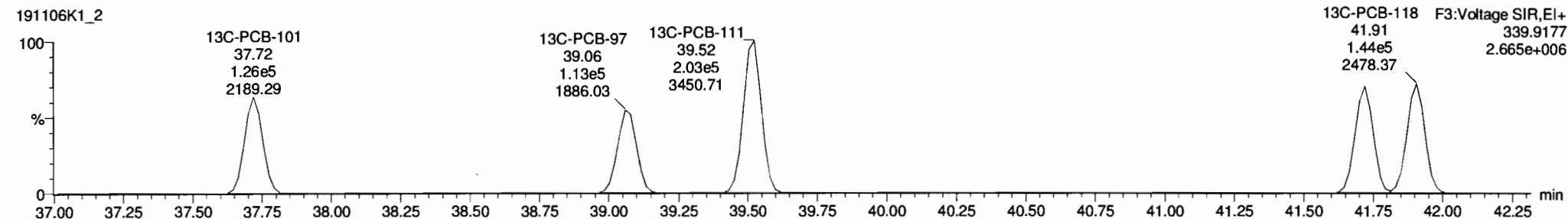
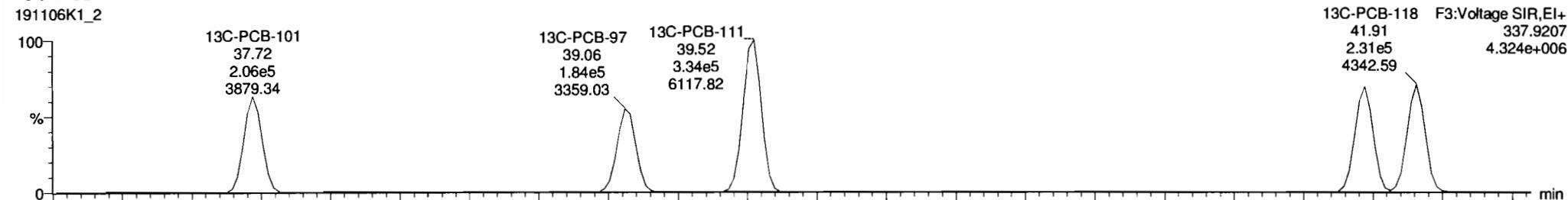
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
 Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

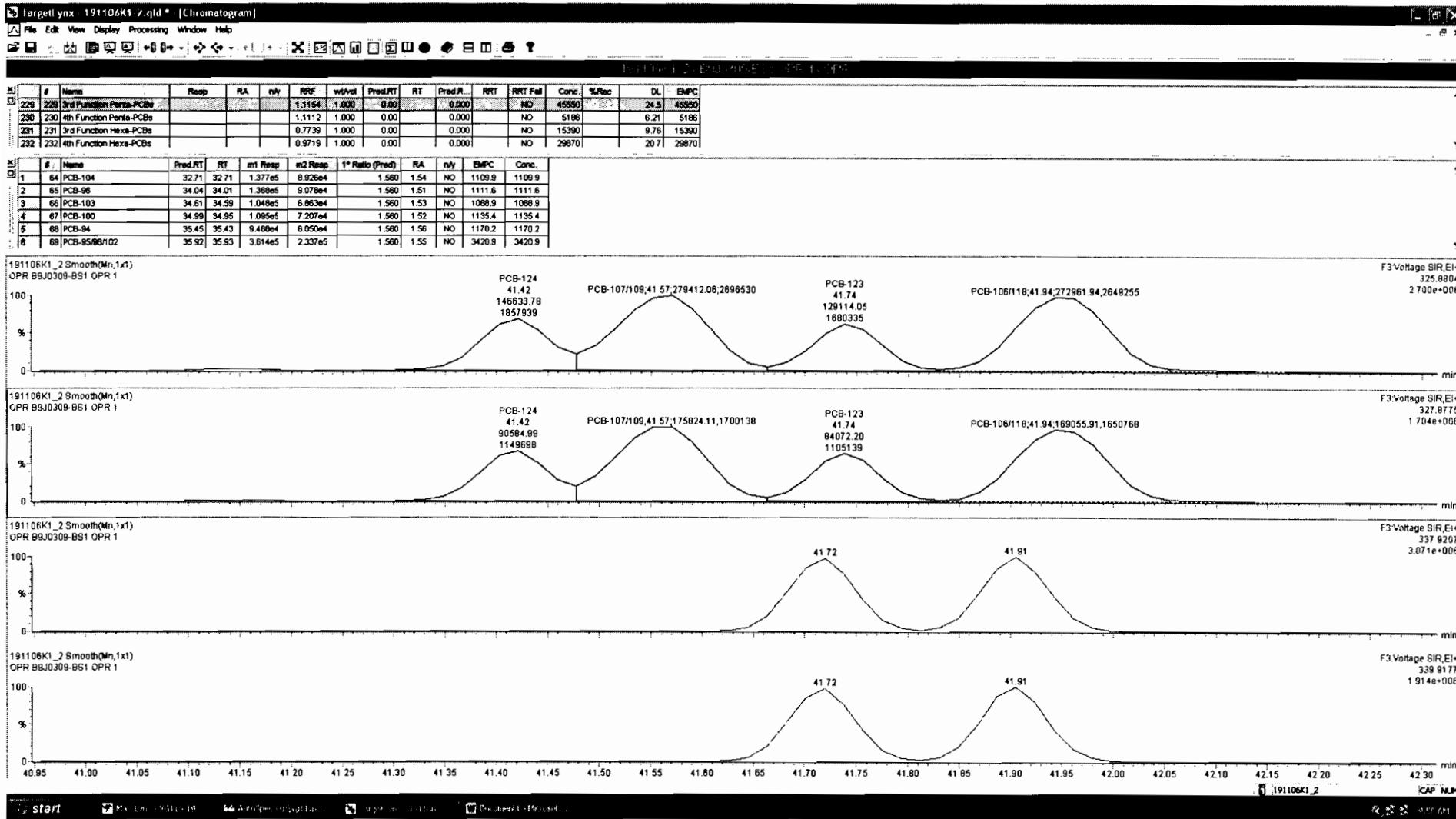
**PCB-119**



**13C-PCB-111**





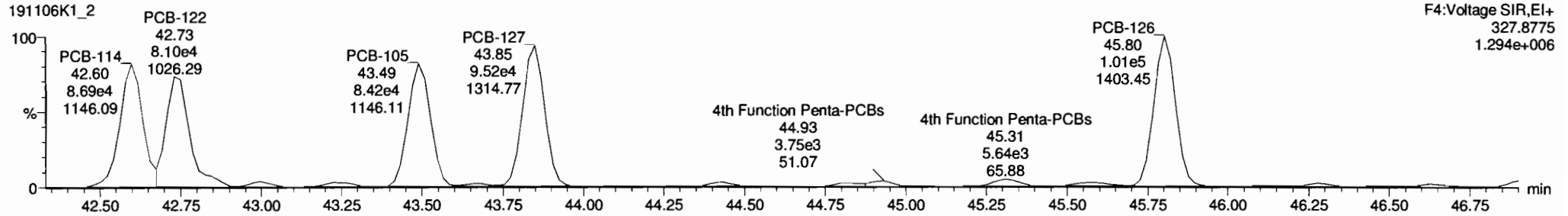
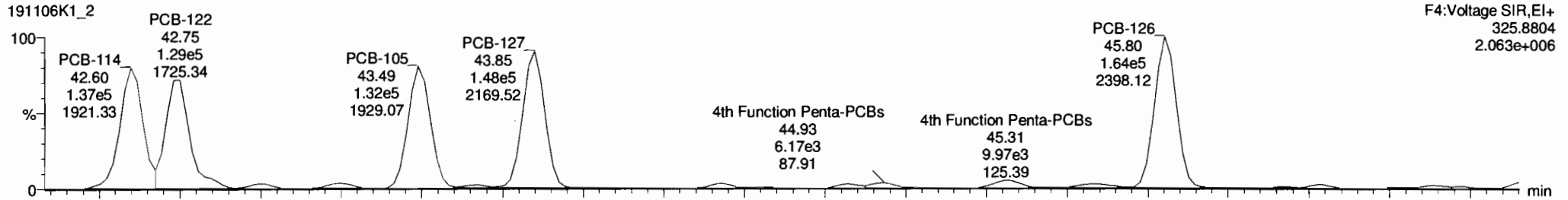


Dataset: Untitled

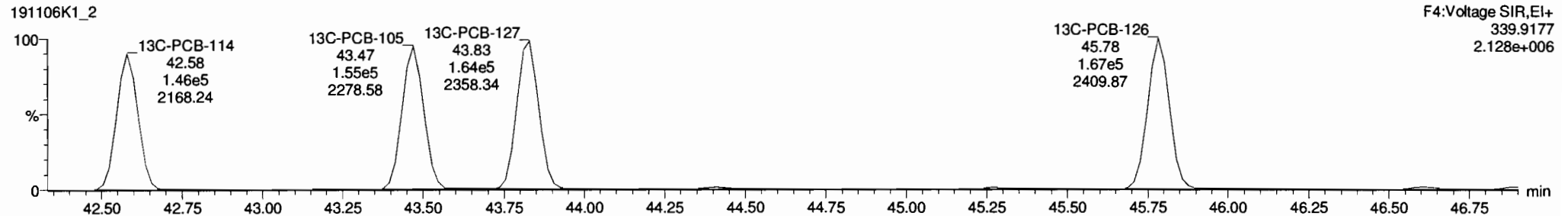
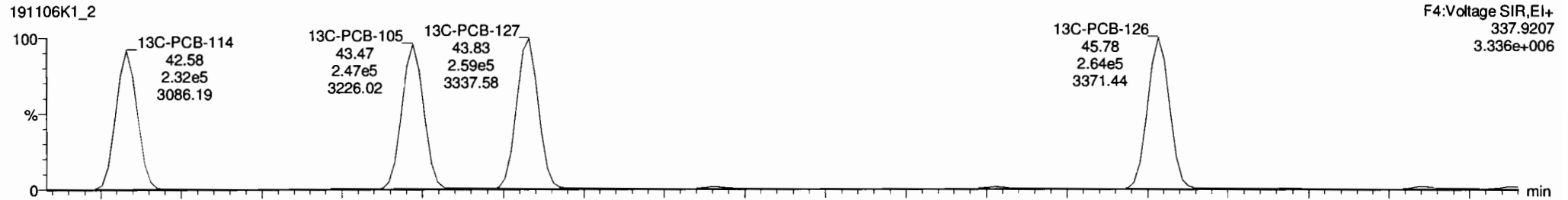
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

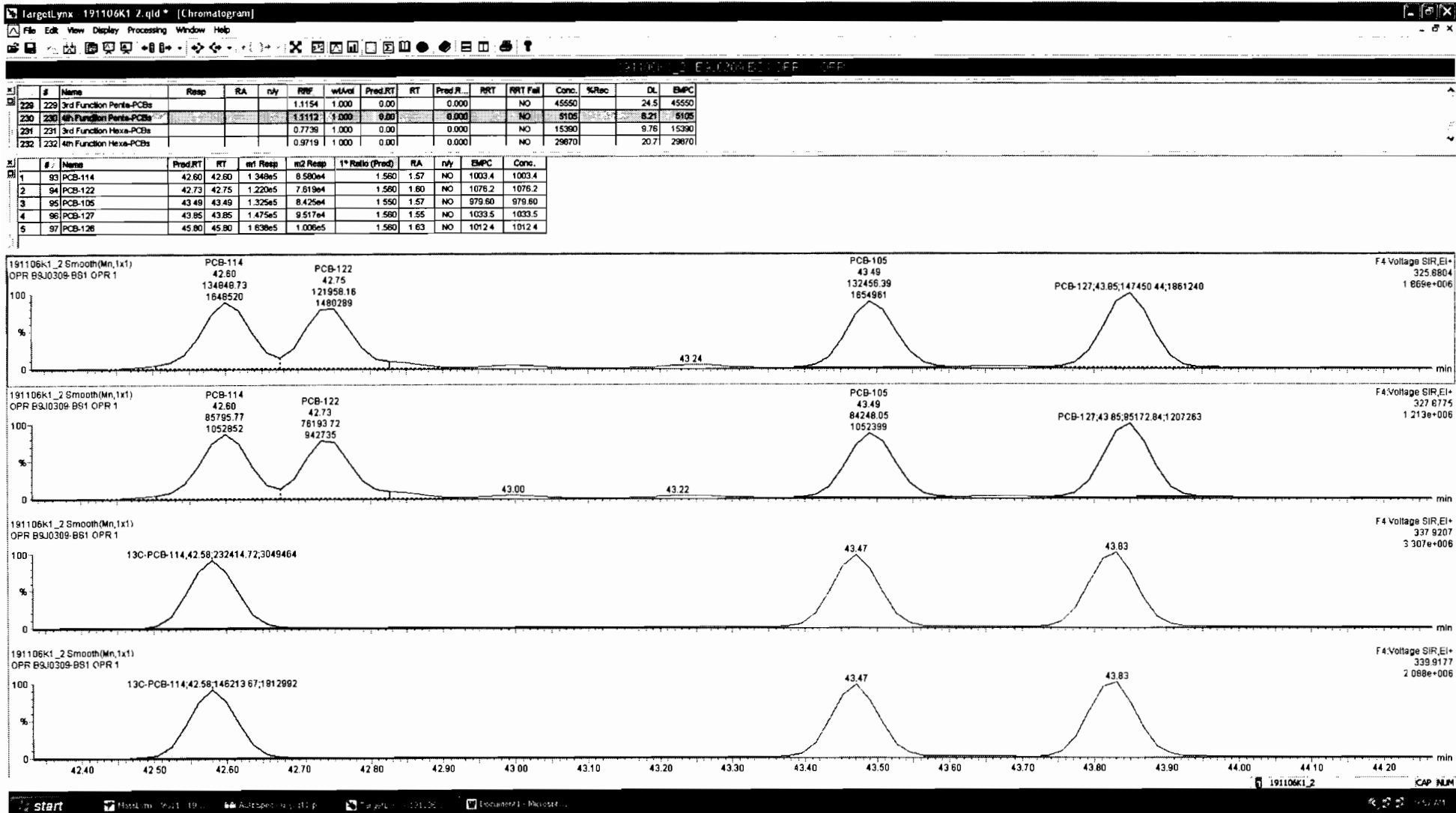
Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

**PCB-114**



**13C-PCB-114**



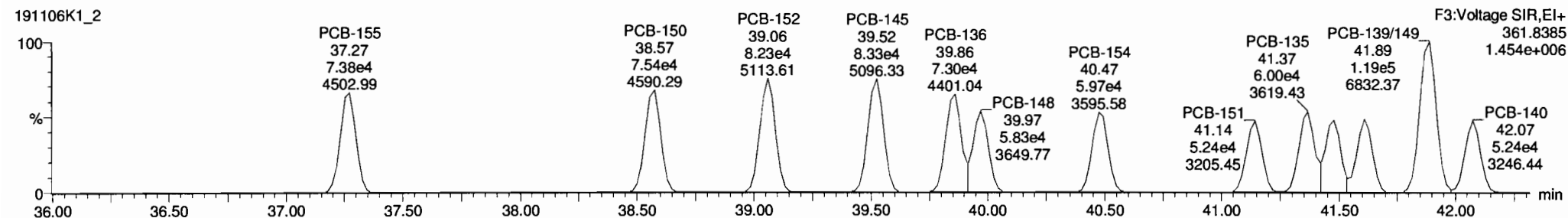
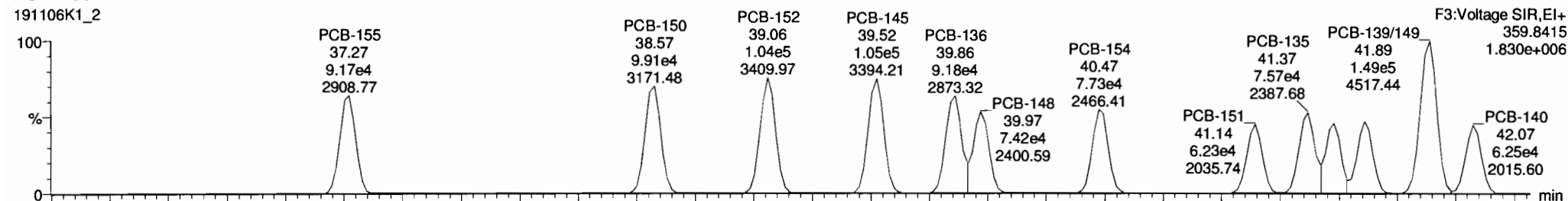


Dataset: Untitled

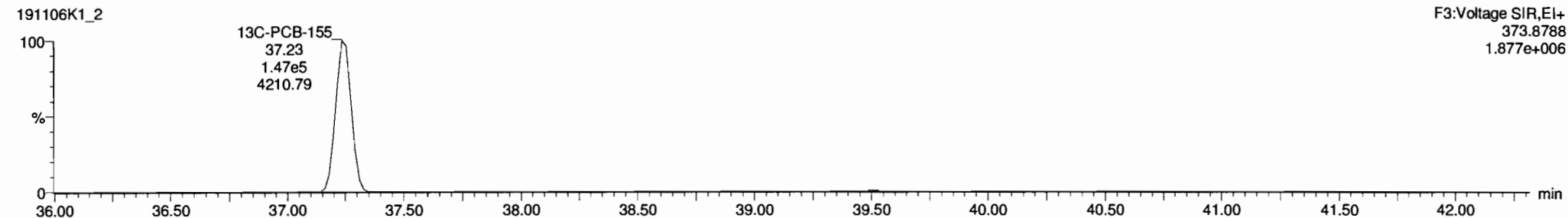
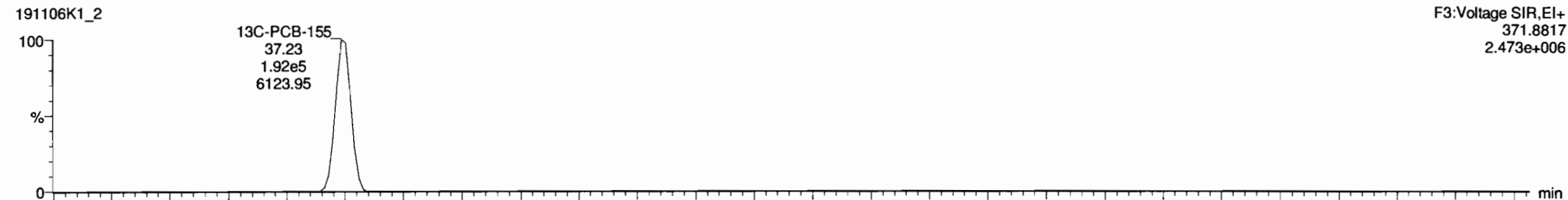
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

PCB-155



13C-PCB-155

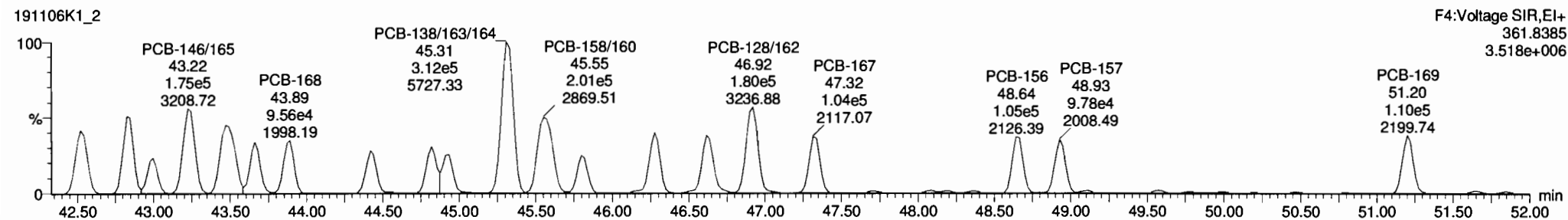
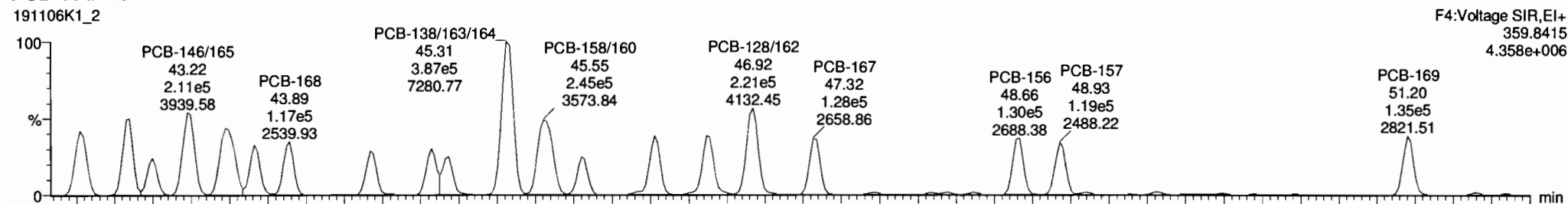


Dataset: Untitled

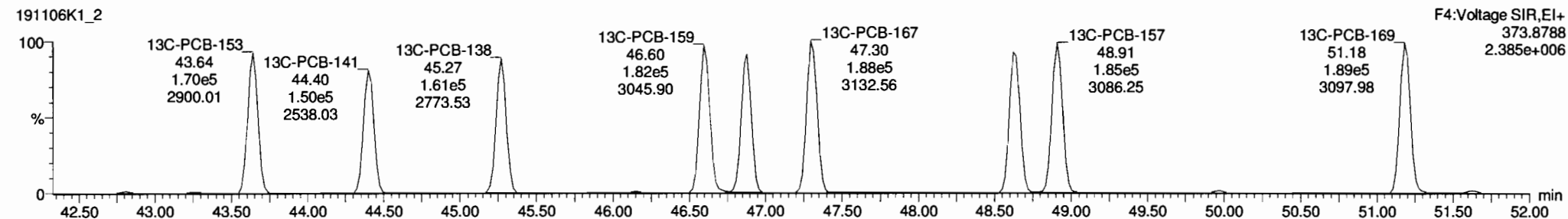
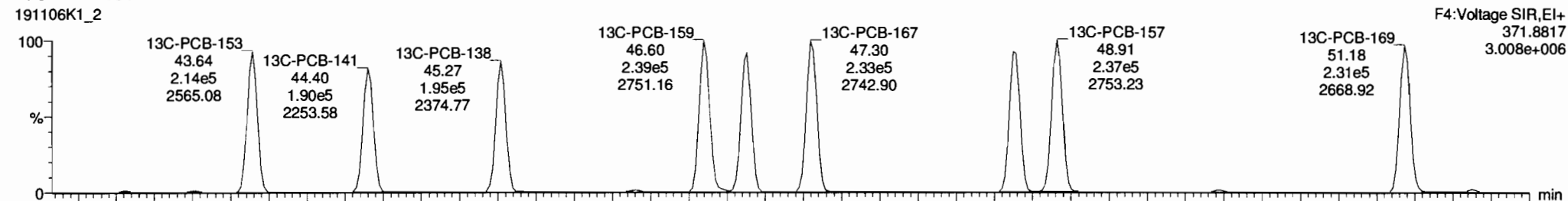
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

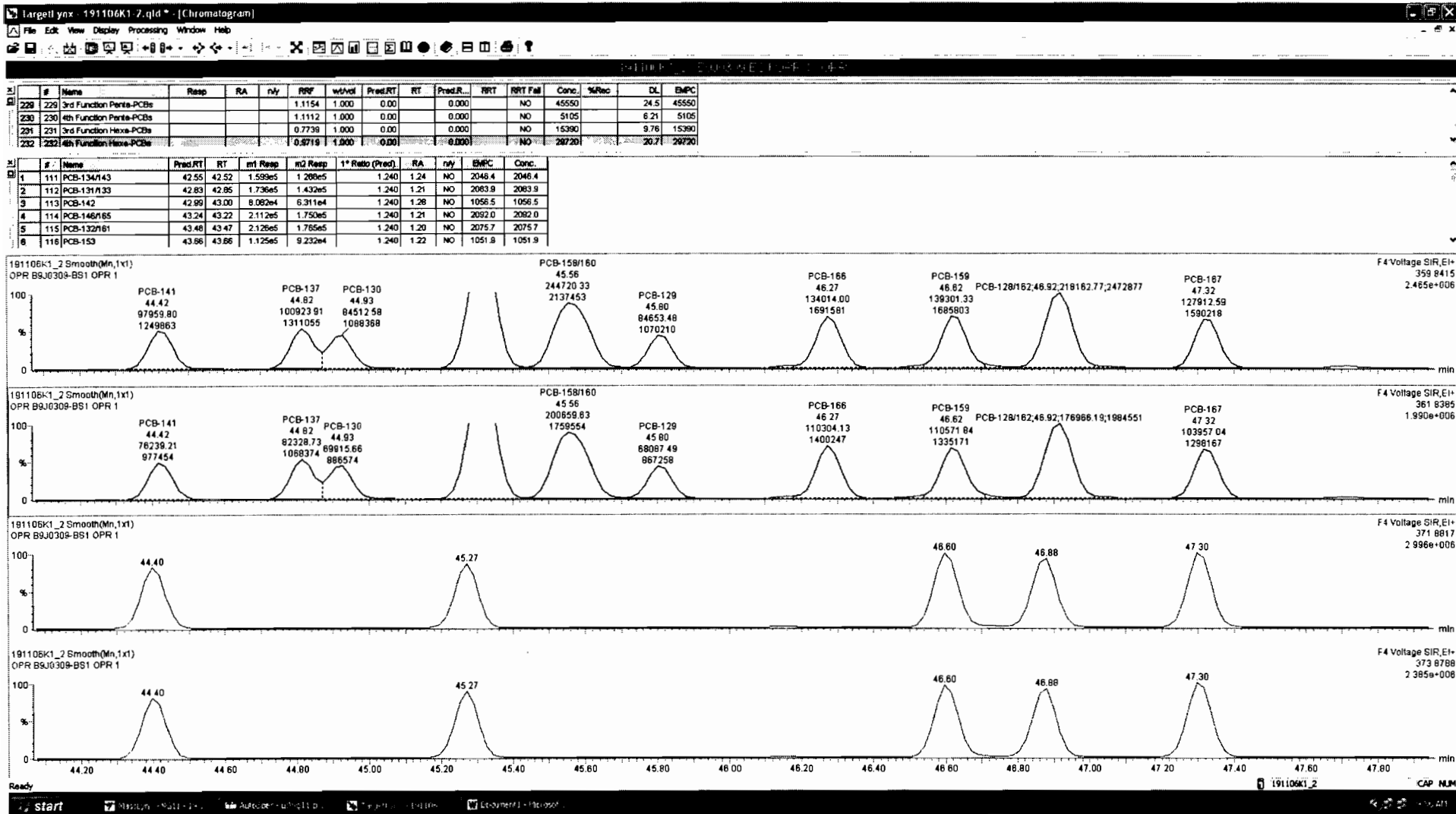
Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

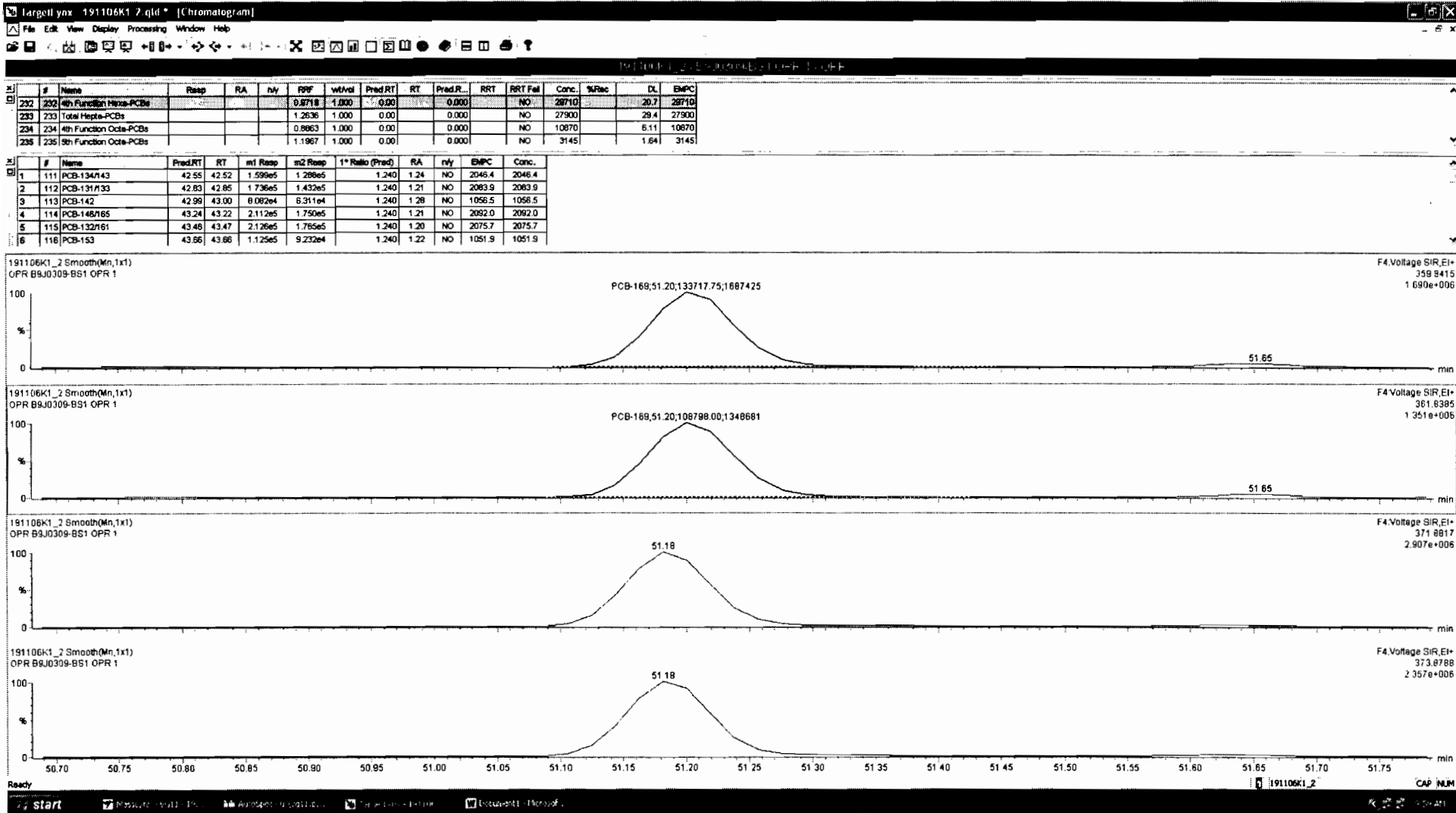
### PCB-134/143



### 13C-PCB-153





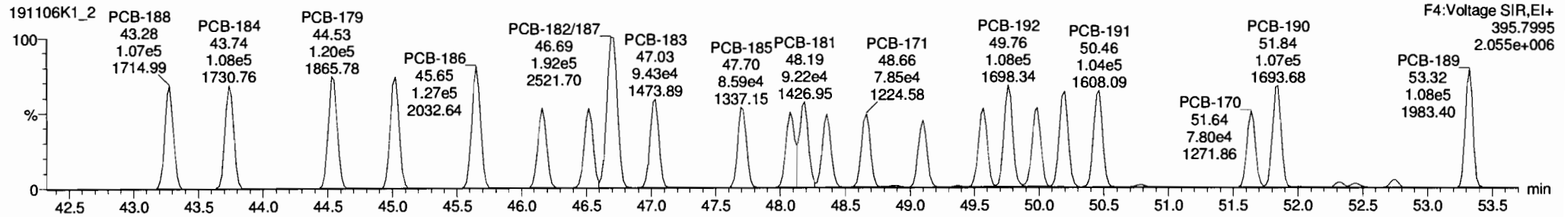
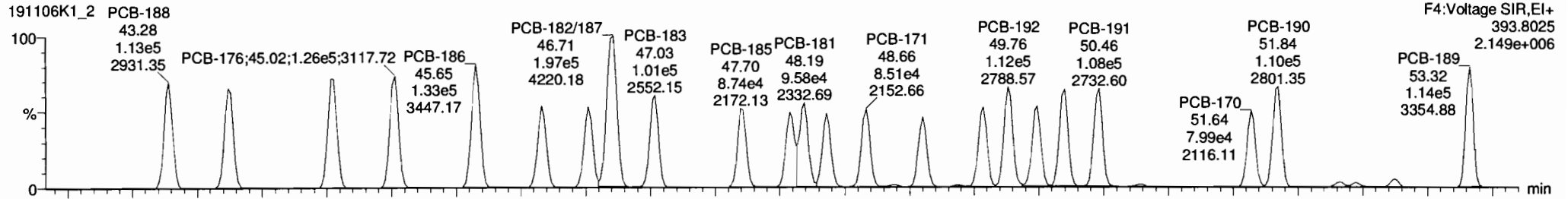


Dataset: Untitled

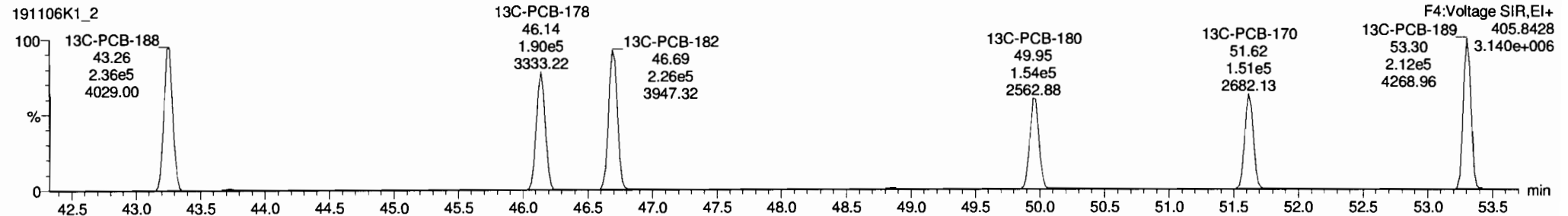
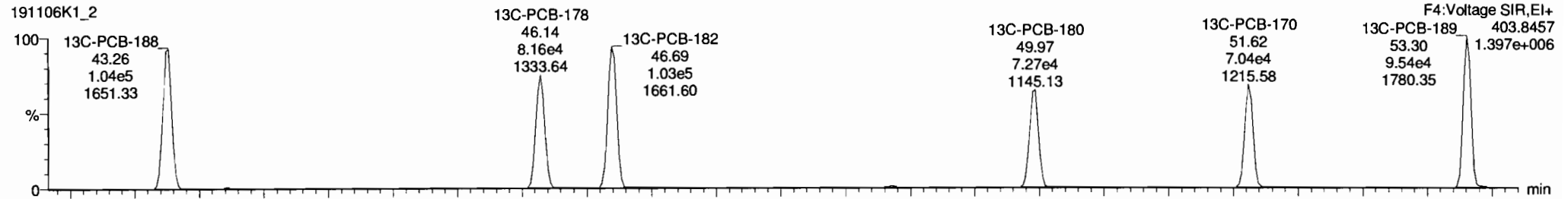
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

PCB-188



13C-PCB-188





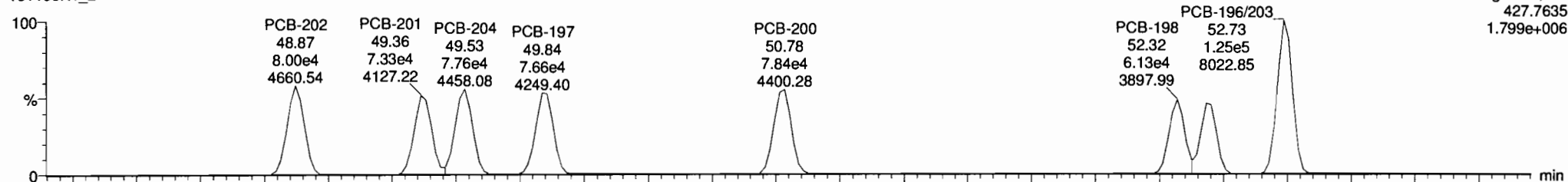
Dataset: Untitled

Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

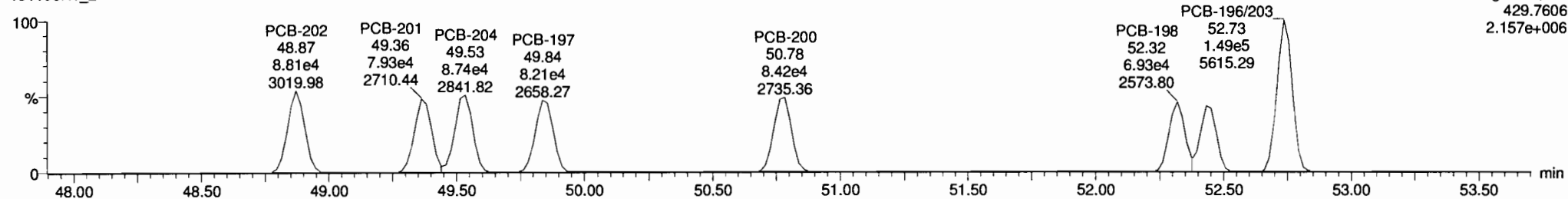
Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

PCB-202

191106K1\_2

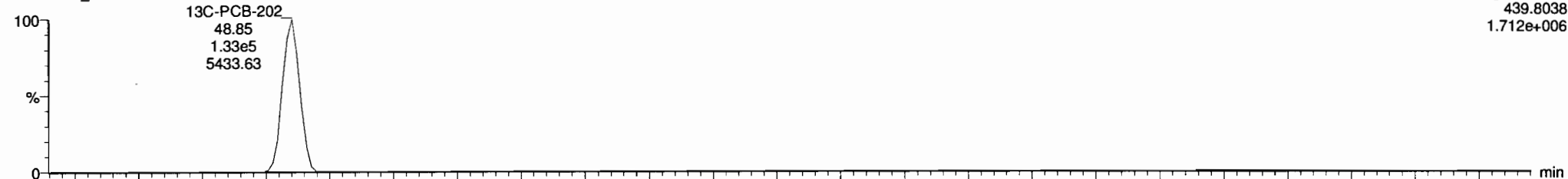


191106K1\_2

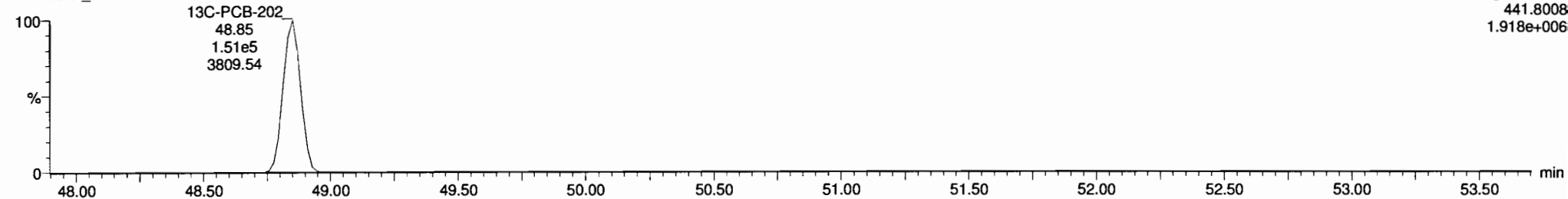


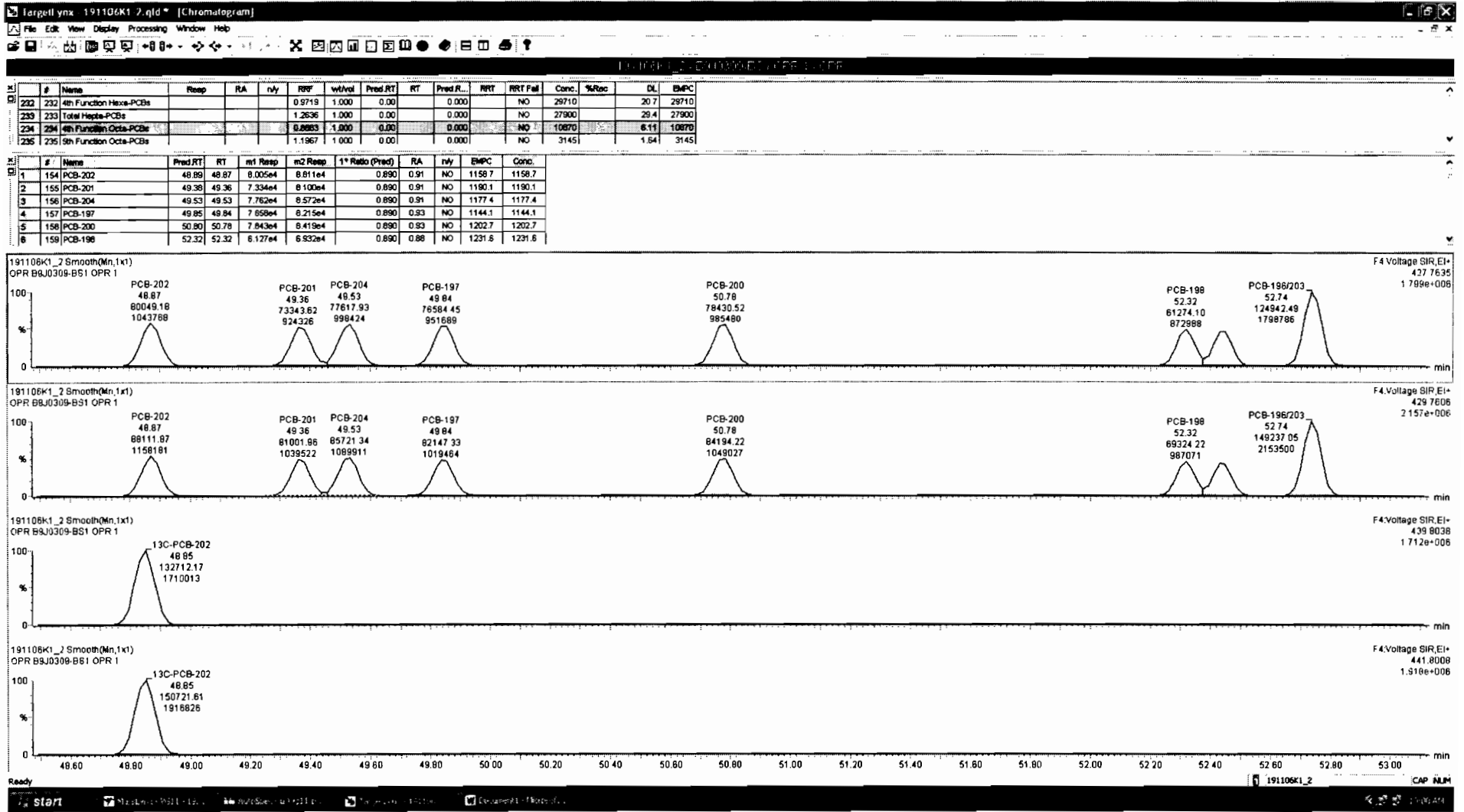
13C-PCB-202

191106K1\_2



191106K1\_2





Dataset: Untitled

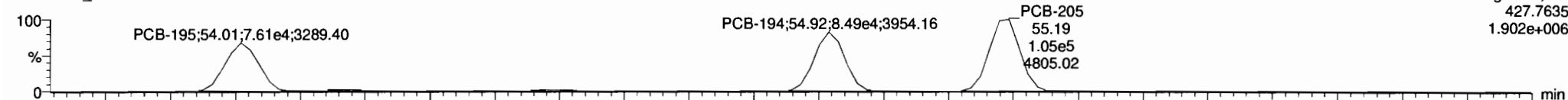
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

**PCB-195**

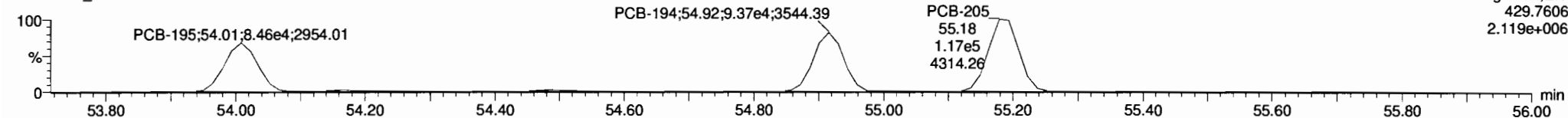
191106K1\_2

F5:Voltage SIR,EI+  
427.7635  
1.902e+006



191106K1\_2

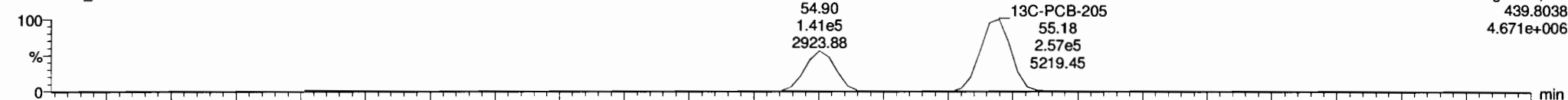
F5:Voltage SIR,EI+  
429.7606  
2.119e+006



**13C-PCB-194**

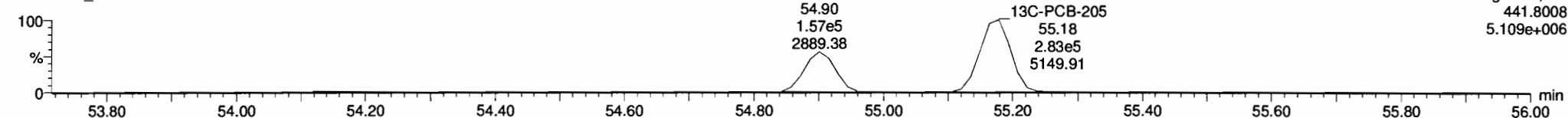
191106K1\_2

F5:Voltage SIR,EI+  
439.8038  
4.671e+006



191106K1\_2

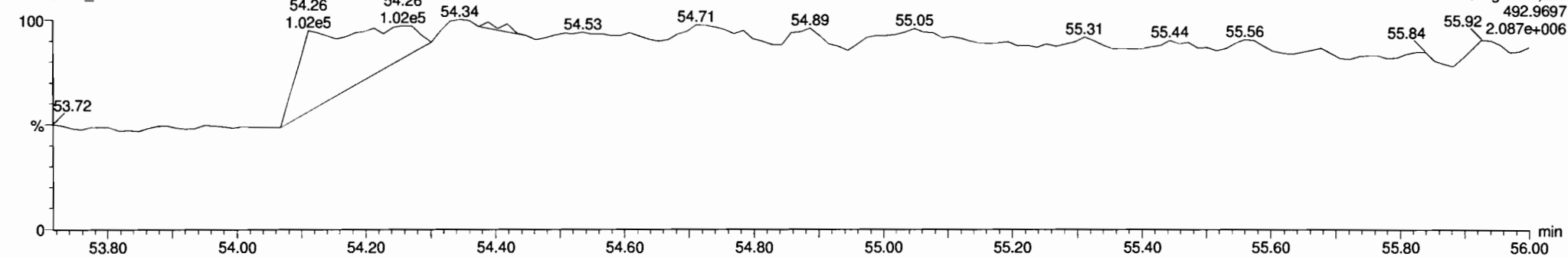
F5:Voltage SIR,EI+  
441.8008  
5.109e+006



**PFK5**

191106K1\_2

F5:Voltage SIR,EI+  
492.9697  
2.087e+006

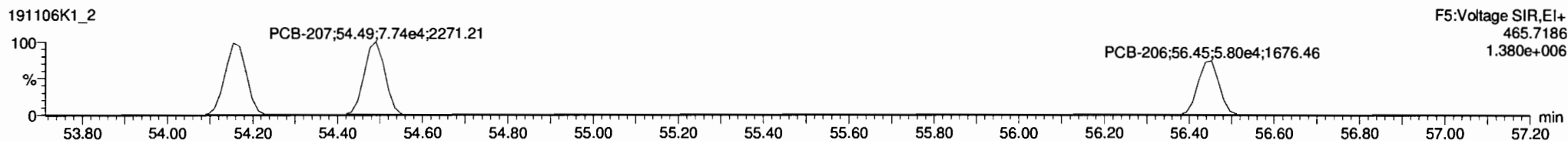
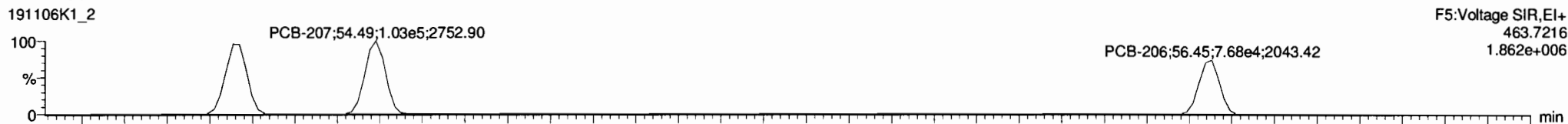


Dataset: Untitled

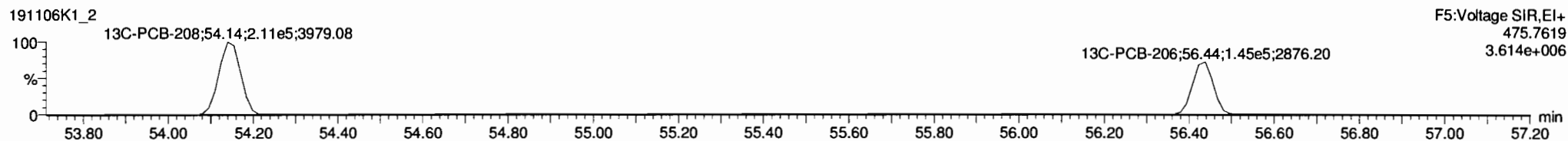
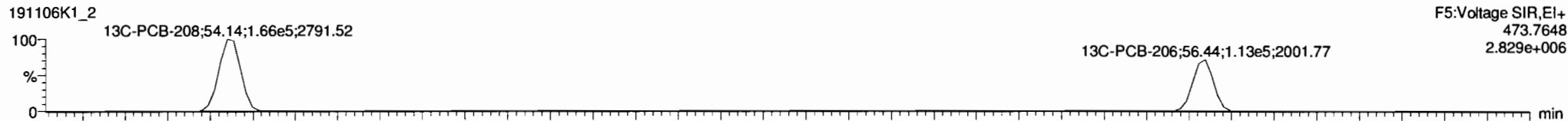
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

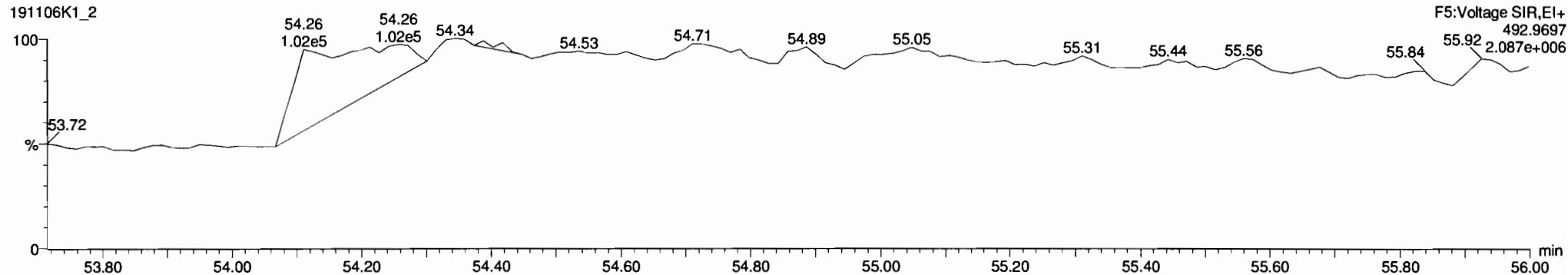
**PCB-208**



**13C-PCB-208**



**PFK5**



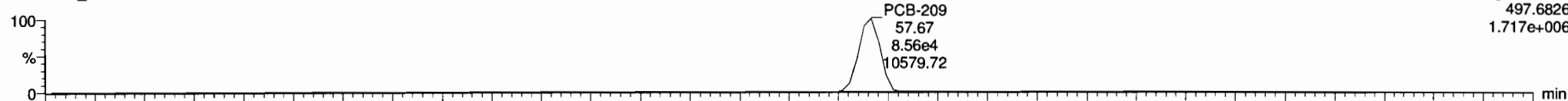
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Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

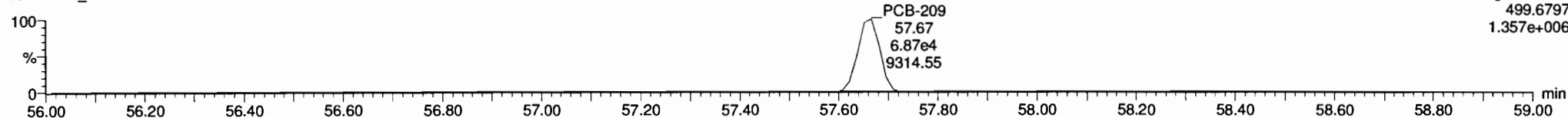
Name: 191106K1\_2, Date: 06-Nov-2019, Time: 13:57:53, ID: B9J0309-BS1 OPR 1, Description: OPR

**PCB-209**

191106K1\_2

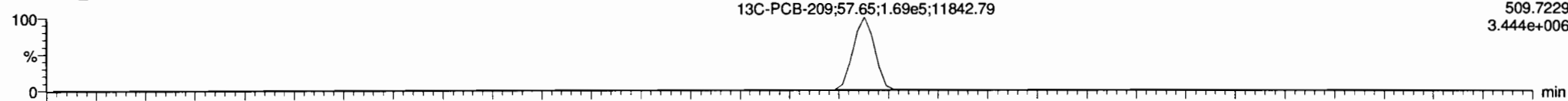


191106K1\_2

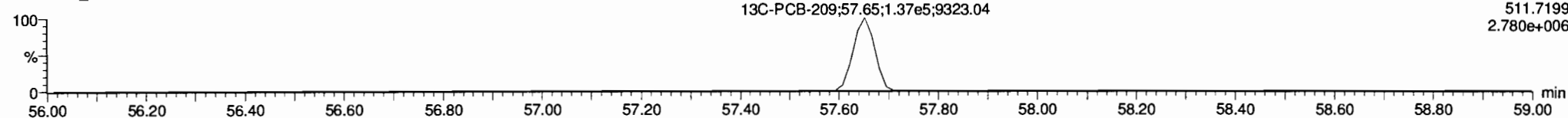


**13C-PCB-209**

191106K1\_2

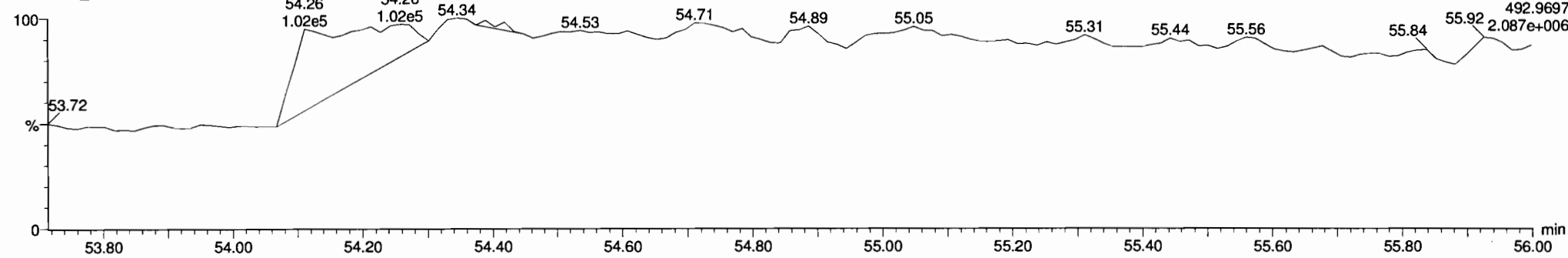


191106K1\_2



**PFK5**

191106K1\_2



Dataset: U:\VG11.PRO\Results\191106K2\191106K2-6.qld

Last Altered: Sunday, November 10, 2019 13:13:32 Pacific Standard Time  
Printed: Sunday, November 10, 2019 13:14:38 Pacific Standard Time

*HL 11.10.19* *OT 01/07/2020*

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-04-19.mdb 05 Nov 2019 14:32:48  
Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191106K2\_6, Date: 07-Nov-2019, Time: 05:24:32, ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	4.08e2	2.70	NO	1.02	1.010	15.69	15.70	1.001	1.001	NO	1.465		0.320	1.465
2	2 PCB-2			NO	1.01	1.010	18.13		0.988		YES			0.334	
3	3 PCB-3			NO	1.01	1.010	18.36		1.001		YES			0.335	
4	4 PCB-4/10			NO	1.28	1.010	19.79		1.004		YES			1.85	
5	5 PCB-7/9			NO	0.976	1.010	21.60		1.003		YES			1.46	
6	6 PCB-6			NO	1.02	1.010	22.26		1.033		YES			1.40	
7	7 PCB-5/8			NO	1.01	1.010	22.67		1.052		YES			1.41	
8	8 PCB-14			NO	1.03	1.010	23.81		0.952		YES			1.43	
9	9 PCB-11	2.51e3	1.10	YES	1.10	1.010	25.04	25.04	1.001	1.001	NO	8.844		0.208	7.603
10	10 PCB-12/13			NO	1.04	1.010	25.47		1.018		YES			1.43	
11	11 PCB-15			NO	1.03	1.010	25.77		1.030		YES			1.44	
12	12 PCB-19			NO	0.934	1.010	24.00		1.001		YES			0.470	
13	13 PCB-30			NO	1.48	1.010	24.92		1.040		YES			0.296	
14	14 PCB-18	3.43e2	1.08	NO	0.693	1.010	25.66	25.68	0.951	0.952	NO	1.961		0.496	1.961
15	15 PCB-17	2.16e2	1.30	YES	0.667	1.010	25.84	25.86	0.958	0.959	NO	1.285		0.516	1.140
16	16 PCB-24/27			NO	0.915	1.010	26.46		0.981		YES			0.376	
17	17 PCB-16/32	3.94e2	1.17	NO	0.792	1.010	26.99	26.98	1.001	1.000	NO	1.968		0.434	1.968
18	18 PCB-34			NO	0.987	1.010	27.80		0.959		YES			0.500	
19	19 PCB-23			NO	0.974	1.010	27.90		0.962		YES			0.507	
20	20 PCB-29			NO	0.953	1.010	28.13		0.970		YES			0.518	
21	21 PCB-26			NO	1.00	1.010	28.38		0.979		YES			0.493	
22	22 PCB-25			NO	0.978	1.010	28.53		0.984		YES			0.505	
23	23 PCB-31	2.67e2	1.03	NO	1.12	1.010	28.92	28.92	0.998	0.997	NO	0.9737		0.440	0.9737
24	24 PCB-28	3.38e2	1.82	YES	1.11	1.010	29.01	29.01	1.001	1.001	NO	1.251		0.446	0.9036
25	25 PCB-20/21/33			NO	1.00	1.010	29.65		1.023		YES			0.492	
26	26 PCB-22			NO	1.03	1.010	30.14		1.039		YES			0.478	
27	27 PCB-36			NO	1.18	1.010	30.70		0.930		YES			0.427	
28	28 PCB-39			NO	1.08	1.010	31.19		0.945		YES			0.463	
29	29 PCB-38	3.72e2	1.53	YES	1.13	1.010	32.00	32.02	0.970	0.971	NO	1.347		0.448	1.086
30	30 PCB-35			NO	1.13	1.010	32.55		0.987		YES			0.444	
31	31 PCB-37			NO	1.11	1.010	33.03		1.001		YES			0.454	
32	32 PCB-54			NO	0.996	1.010	27.84		1.001		YES			0.465	

Dataset: U:\VG11.PRO\Results\191106K2\191106K2-6.qld

Last Altered: Sunday, November 10, 2019 13:13:32 Pacific Standard Time

Printed: Sunday, November 10, 2019 13:14:38 Pacific Standard Time

Name: 191106K2\_6, Date: 07-Nov-2019, Time: 05:24:32, ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50			NO	0.781	1.010	29.08		1.045		YES			0.593	
34	34 PCB-53			NO	0.955	1.010	29.71		0.943		YES			0.530	
35	35 PCB-51	7.03e2	0.64	YES	1.02	1.010	30.06	30.09	0.955	0.956	NO	3.582		0.494	3.203
36	36 PCB-45			NO	0.808	1.010	30.49		0.969		YES			0.626	
37	37 PCB-46			NO	0.754	1.010	31.01		0.985		YES			0.672	
38	38 PCB-52/69	2.14e2	0.73	NO	1.09	1.010	31.52	31.52	1.001	1.001	NO	1.023		0.464	1.023
39	39 PCB-73			NO	1.29	1.010	31.65		1.005		YES			0.393	
40	40 PCB-43/49	1.74e2	0.69	NO	0.940	1.010	31.81	31.82	1.010	1.011	NO	0.9673		0.538	0.9673
41	41 PCB-47	6.22e3	0.79	NO	0.869	1.010	32.03	32.02	1.001	1.001	NO	35.49		0.554	35.49
42	42 PCB-48/75			NO	1.02	1.010	32.14		1.004		YES			0.470	
43	43 PCB-65			NO	1.11	1.010	32.41		1.013		YES			0.434	
44	44 PCB-62			NO	1.07	1.010	32.52		1.016		YES			0.452	
45	45 PCB-44	1.54e2	0.77	NO	0.761	1.010	32.86	32.86	1.027	1.027	NO	1.004		0.633	1.004
46	46 PCB-42/59			NO	0.960	1.010	33.08		1.033		YES			0.502	
47	47 PCB-41/64/71/72	1.77e2	1.16	YES	1.08	1.010	33.70	33.70	1.053	1.053	NO	0.8699		0.445	0.6630
48	48 PCB-68	8.52e2	0.74	NO	1.11	1.010	33.99	33.96	1.062	1.061	NO	3.808		0.434	3.808
49	49 PCB-40			NO	0.577	1.010	34.21		1.069		YES			0.835	
50	50 PCB-57			NO	1.05	1.010	34.53		0.969		YES			0.439	
51	51 PCB-67			NO	0.993	1.010	34.86		0.978		YES			0.463	
52	52 PCB-58			NO	1.11	1.010	34.99		0.981		YES			0.414	
53	53 PCB-63			NO	0.962	1.010	35.14		0.986		YES			0.478	
54	54 PCB-74			NO	1.07	1.010	35.45		0.994		YES			0.432	
55	55 PCB-61/70			NO	0.986	1.010	35.67		1.000		YES			0.467	
56	56 PCB-76/66	2.33e2	1.26	YES	1.07	1.010	35.83	35.88	1.005	1.006	NO	1.903		0.432	0.7862
57	57 PCB-80			NO	1.08	1.010	36.10		1.001		YES			0.403	
58	58 PCB-55			NO	1.07	1.010	36.42		1.010		YES			0.409	
59	59 PCB-56/60			NO	0.934	1.010	36.96		1.024		YES			0.468	
60	60 PCB-79			NO	1.04	1.010	38.06		1.055		YES			0.419	
61	61 PCB-78			NO	1.03	1.010	38.76		0.987		YES			0.431	
62	62 PCB-81			NO	0.933	1.010	39.30		1.000		YES			0.476	
63	63 PCB-77			NO	1.03	1.010	39.92		1.000		YES			0.452	
64	64 PCB-104			NO	0.995	1.010	32.70		1.001		YES			0.400	
65	65 PCB-96			NO	0.996	1.010	34.02		1.041		YES			0.399	
66	66 PCB-103			NO	0.774	1.010	34.59		1.059		YES			0.513	
67	67 PCB-100			NO	0.778	1.010	34.97		1.070		YES			0.511	
68	68 PCB-94			NO	0.773	1.010	35.43		0.985		YES			0.734	

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Name: 191106K2\_6, Date: 07-Nov-2019, Time: 05:24:32, ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102			NO	1.01	1.010	35.90		0.999		YES			0.559	
70	70 PCB-93			NO	0.841	1.010	36.03		1.002		YES			0.675	
71	71 PCB-88/91			NO	0.890	1.010	36.38		1.012		YES			0.638	
72	72 PCB-121			NO	1.39	1.010	36.50		1.015		YES			0.410	
73	73 PCB-84/92			NO	0.879	1.010	37.33		0.990		YES			0.612	
74	74 PCB-89			NO	0.959	1.010	37.51		0.995		YES			0.561	
75	75 PCB-90/101	2.76e2	1.47	NO	0.944	1.010	37.72	37.72	1.000	1.000	NO	1.857		0.570	1.857
76	76 PCB-113			NO	1.23	1.010	37.97		1.007		YES			0.437	
77	77 PCB-99			NO	1.12	1.010	38.07		1.010		YES			0.481	
78	78 PCB-119			NO	1.47	1.010	38.53		0.987		YES			0.413	
79	79 PCB-108/112			NO	1.25	1.010	38.69		0.991		YES			0.486	
80	80 PCB-83			NO	1.55	1.010	38.84		0.995		YES			0.393	
81	81 PCB-97			NO	1.07	1.010	39.08		1.001		YES			0.565	
82	82 PCB-86			NO	0.996	1.010	39.23		1.005		YES			0.610	
83	83 PCB-87/117/125			NO	1.33	1.010	39.34		1.008		YES			0.456	
84	84 PCB-111/115			NO	1.60	1.010	39.51		1.012		YES			0.379	
85	85 PCB-85/116			NO	1.22	1.010	39.63		1.015		YES			0.500	
86	86 PCB-120			NO	1.68	1.010	39.90		1.022		YES			0.361	
87	87 PCB-110	2.49e2	1.11	YES	1.49	1.010	40.04	40.03	1.026	1.025	NO	1.177		0.406	1.015
88	88 PCB-82			NO	0.674	1.010	40.68		0.976		YES			0.707	
89	89 PCB-124			NO	1.16	1.010	41.40		0.993		YES			0.410	
90	90 PCB-107/109			NO	1.17	1.010	41.55		0.996		YES			0.409	
91	91 PCB-123			NO	1.04	1.010	41.72		1.000		YES			0.458	
92	92 PCB-106/118			NO	1.07	1.010	41.92		1.001		YES			0.451	
93	93 PCB-114			NO	1.16	1.010	42.58		1.000		YES			0.516	
94	94 PCB-122			NO	0.973	1.010	42.71		1.003		YES			0.616	
95	95 PCB-105			NO	1.10	1.010	43.47		1.000		YES			0.549	
96	96 PCB-127			NO	1.11	1.010	43.83		1.000		YES			0.538	
97	97 PCB-126			NO	1.21	1.010	45.78		1.000		YES			0.473	
98	98 PCB-155			NO	0.874	1.010	37.23		1.000		YES			0.384	
99	99 PCB-150			NO	0.881	1.010	38.56		1.036		YES			0.381	
100	1... PCB-152			NO	1.00	1.010	39.07		1.050		YES			0.334	
101	1... PCB-145			NO	1.00	1.010	39.53		1.062		YES			0.336	
102	1... PCB-136			NO	0.843	1.010	39.86		1.071		YES			0.398	
103	1... PCB-148			NO	0.693	1.010	40.00		1.075		YES			0.484	
104	1... PCB-154			NO	0.724	1.010	40.50		1.088		YES			0.464	



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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151			NO	0.632	1.010	41.16		1.106		YES			0.531	
106	1... PCB-135			NO	0.716	1.010	41.34		1.111		YES			0.469	
107	1... PCB-144			NO	0.667	1.010	41.44		1.114		YES			0.504	
108	1... PCB-147			NO	0.661	1.010	41.59		1.118		YES			0.508	
109	1... PCB-139/149	1.20e2	1.62	YES	0.738	1.010	41.93	41.85	1.127	1.125	NO	1.079		0.293	0.9215
110	1... PCB-140			NO	0.627	1.010	42.11		1.132		YES			0.535	
111	1... PCB-134/143			NO	0.733	1.010	42.53		0.975		YES			0.389	
112	1... PCB-131/133			NO	0.790	1.010	42.81		0.982		YES			0.361	
113	1... PCB-142			NO	0.708	1.010	42.97		0.985		YES			0.403	
114	1... PCB-146/165			NO	0.959	1.010	43.22		0.991		YES			0.297	
115	1... PCB-132/161			NO	0.974	1.010	43.46		0.996		YES			0.293	
116	1... PCB-153			NO	1.01	1.010	43.64		1.000		YES			0.282	
117	1... PCB-168			NO	1.02	1.010	43.87		1.006		YES			0.280	
118	1... PCB-141			NO	0.967	1.010	44.40		1.000		YES			0.342	
119	1... PCB-137			NO	0.987	1.010	44.78		1.009		YES			0.335	
120	1... PCB-130			NO	0.840	1.010	44.89		1.012		YES			0.394	
121	1... PCB-138/163/164	1.64e2	1.91	YES	1.23	1.010	45.29	45.27	1.001	1.000	NO	0.8868		0.244	0.6836
122	1... PCB-158/160			NO	1.18	1.010	45.54		1.006		YES			0.254	
123	1... PCB-129			NO	0.819	1.010	45.78		1.012		YES			0.366	
124	1... PCB-166			NO	1.07	1.010	46.26		0.993		YES			0.248	
125	1... PCB-159			NO	1.12	1.010	46.60		1.000		YES			0.237	
126	1... PCB-128/162			NO	0.851	1.010	46.89		1.007		YES			0.311	
127	1... PCB-167			NO	1.04	1.010	47.30		1.000		YES			0.249	
128	1... PCB-156			NO	1.06	1.010	48.62		1.000		YES			0.266	
129	1... PCB-157			NO	0.978	1.010	48.93		1.001		YES			0.286	
130	1... PCB-169			NO	1.11	1.010	51.18		1.000		YES			0.292	
131	1... PCB-188			NO	1.19	1.010	43.26		1.001		YES			0.186	
132	1... PCB-184			NO	1.17	1.010	43.71		1.011		YES			0.191	
133	1... PCB-179			NO	1.18	1.010	44.52		1.030		YES			0.189	
134	1... PCB-176			NO	1.16	1.010	44.99		1.041		YES			0.192	
135	1... PCB-186			NO	1.22	1.010	45.61		1.055		YES			0.183	
136	1... PCB-178			NO	0.830	1.010	46.12		1.067		YES			0.268	
137	1... PCB-175			NO	0.849	1.010	46.48		1.075		YES			0.262	
138	1... PCB-182/187			NO	0.960	1.010	46.68		1.080		YES			0.232	
139	1... PCB-183			NO	0.957	1.010	47.01		1.088		YES			0.233	
140	1... PCB-185			NO	1.32	1.010	47.70		0.955		YES			0.261	

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174			NO	1.22	1.010	48.07		0.962		YES			0.283	
142	1... PCB-181			NO	1.41	1.010	48.17		0.964		YES			0.244	
143	1... PCB-177			NO	1.24	1.010	48.35		0.968		YES			0.278	
144	1... PCB-171			NO	1.24	1.010	48.64		0.974		YES			0.278	
145	1... PCB-173			NO	1.14	1.010	49.08		0.983		YES			0.302	
146	1... PCB-172			NO	1.31	1.010	49.57		0.992		YES			0.264	
147	1... PCB-192			NO	1.70	1.010	49.76		0.996		YES			0.203	
148	1... PCB-180			NO	1.32	1.010	49.97		1.000		YES			0.261	
149	1... PCB-193			NO	1.54	1.010	50.20		1.005		YES			0.224	
150	1... PCB-191			NO	1.57	1.010	50.44		1.010		YES			0.219	
151	1... PCB-170			NO	1.36	1.010	51.62		1.000		YES			0.307	
152	1... PCB-190			NO	1.84	1.010	51.80		1.004		YES			0.227	
153	1... PCB-189			NO	1.33	1.010	53.31		1.000		YES			0.199	
154	1... PCB-202			NO	1.02	1.010	48.87		1.001		YES			0.216	
155	1... PCB-201			NO	0.915	1.010	49.36		1.011		YES			0.242	
156	1... PCB-204			NO	0.979	1.010	49.51		1.014		YES			0.226	
157	1... PCB-197			NO	0.979	1.010	49.83		1.020		YES			0.226	
158	1... PCB-200			NO	0.954	1.010	50.78		1.040		YES			0.232	
159	1... PCB-198			NO	0.748	1.010	52.30		1.071		YES			0.295	
160	1... PCB-199			NO	0.706	1.010	52.41		1.073		YES			0.313	
161	1... PCB-196/203			NO	0.785	1.010	52.87		1.083		YES			0.282	
162	1... PCB-195			NO	1.03	1.010	53.98		0.984		YES			0.323	
163	1... PCB-194	1.31e2	1.15	YES	1.16	1.010	54.90	54.89	1.000	1.000	NO	0.9860		0.186	0.8410
164	1... PCB-205			NO	1.40	1.010	55.17		1.005		YES			0.238	
165	1... PCB-208	3.35e1	1.71	YES	0.934	1.010	54.16	54.15	1.000	1.000	NO	0.2342		0.0764	0.2020
166	1... PCB-207			NO	0.912	1.010	54.48		1.006		YES			0.128	
167	1... PCB-206			NO	0.987	1.010	56.44		1.000		YES			0.165	
168	1... PCB-209			NO	0.943	1.010	57.64		1.000		YES			0.165	
169	1... 13C-PCB-1	5.39e5	3.15	NO	1.08	1.010	15.68	15.68	0.609	0.609	NO	1331	67.3	2.32	
170	1... 13C-PCB-3	5.56e5	3.47	NO	1.09	1.010	18.34	18.35	0.712	0.713	NO	1355	68.5	2.29	
171	1... 13C-PCB-4	3.04e5	1.57	NO	0.640	1.010	19.70	19.71	0.765	0.766	NO	1264	63.9	0.862	
172	1... 13C-PCB-9	5.22e5	1.57	NO	0.995	1.010	21.54	21.54	0.837	0.837	NO	1393	70.4	0.554	
173	1... 13C-PCB-11	5.12e5	1.56	NO	0.971	1.010	25.02	25.02	0.972	0.972	NO	1401	70.8	0.567	
174	1... 13C-PCB-19	3.67e5	1.00	NO	0.637	1.010	23.96	23.96	0.931	0.931	NO	1530	77.3	8.83	
175	1... 13C-PCB-32	5.00e5	0.99	NO	0.910	1.010	26.98	26.97	1.048	1.048	NO	1461	73.8	6.18	
176	1... 13C-PCB-28	4.84e5	1.01	NO	1.07	1.010	28.97	28.99	1.003	1.004	NO	1457	73.6	7.72	

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	# Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	4.84e5	1.02	NO	0.959	1.010	32.97	32.99	1.141	1.142	NO	1625	82.1	8.60	
178	1... 13C-PCB-54	4.20e5	0.76	NO	1.10	1.010	27.83	27.82	0.754	0.754	NO	1313	66.3	1.49	
179	1... 13C-PCB-52	3.80e5	0.76	NO	0.844	1.010	31.48	31.49	0.853	0.853	NO	1545	78.1	1.94	
180	1... 13C-PCB-47	4.00e5	0.78	NO	0.893	1.010	32.00	32.01	0.867	0.867	NO	1536	77.6	1.84	
181	1... 13C-PCB-70	4.32e5	0.75	NO	1.01	1.010	35.63	35.65	0.965	0.966	NO	1471	74.3	1.63	
182	1... 13C-PCB-80	4.39e5	0.76	NO	1.05	1.010	36.06	36.08	0.977	0.977	NO	1443	72.9	1.57	
183	1... 13C-PCB-81	4.45e5	0.76	NO	0.985	1.010	39.28	39.28	1.064	1.064	NO	1551	78.3	1.67	
184	1... 13C-PCB-77	4.37e5	0.76	NO	0.958	1.010	39.89	39.90	1.080	1.081	NO	1565	79.0	1.71	
185	1... 13C-PCB-104	4.12e5	1.59	NO	1.10	1.010	32.69	32.68	0.827	0.827	NO	1532	77.4	1.01	
186	1... 13C-PCB-95	2.99e5	1.57	NO	0.852	1.010	35.97	35.95	0.910	0.910	NO	1428	72.2	1.30	
187	1... 13C-PCB-101	3.12e5	1.61	NO	0.814	1.010	37.72	37.70	0.955	0.954	NO	1561	78.9	1.37	
188	1... 13C-PCB-97	2.82e5	1.63	NO	0.709	1.010	39.05	39.04	0.989	0.988	NO	1617	81.7	1.57	
189	1... 13C-PCB-123	3.49e5	1.63	NO	0.922	1.010	41.69	41.70	1.055	1.056	NO	1543	78.0	1.21	
190	1... 13C-PCB-118	3.51e5	1.60	NO	0.975	1.010	41.88	41.89	1.060	1.060	NO	1468	74.1	1.14	
191	1... 13C-PCB-114	3.22e5	1.63	NO	1.52	1.010	42.56	42.56	0.908	0.908	NO	1287	65.0	1.24	
192	1... 13C-PCB-105	3.25e5	1.62	NO	1.58	1.010	43.45	43.45	0.927	0.927	NO	1246	62.9	1.19	
193	1... 13C-PCB-127	3.37e5	1.59	NO	1.62	1.010	43.81	43.81	0.935	0.935	NO	1260	63.6	1.17	
194	1... 13C-PCB-126	3.43e5	1.57	NO	1.45	1.010	45.76	45.76	0.976	0.977	NO	1441	72.8	1.31	
195	1... 13C-PCB-155	2.98e5	1.33	NO	1.03	1.010	37.23	37.22	0.942	0.942	NO	1185	59.8	0.371	
196	1... 13C-PCB-153	3.17e5	1.26	NO	1.42	1.010	43.62	43.62	0.931	0.931	NO	1353	68.4	1.40	
197	1... 13C-PCB-141	2.72e5	1.34	NO	1.14	1.010	44.40	44.38	0.947	0.947	NO	1447	73.1	1.74	
198	1... 13C-PCB-138	2.98e5	1.27	NO	1.18	1.010	45.25	45.25	0.966	0.966	NO	1534	77.5	1.69	
199	1... 13C-PCB-159	3.53e5	1.29	NO	1.43	1.010	46.60	46.58	0.994	0.994	NO	1494	75.5	1.39	
200	2... 13C-PCB-167	3.57e5	1.26	NO	1.42	1.010	47.30	47.28	1.009	1.009	NO	1522	76.9	1.40	
201	2... 13C-PCB-156	3.40e5	1.28	NO	1.40	1.010	48.62	48.60	1.038	1.037	NO	1475	74.5	1.42	
202	2... 13C-PCB-157	3.39e5	1.31	NO	1.41	1.010	48.91	48.89	1.044	1.043	NO	1462	73.9	1.41	
203	2... 13C-PCB-169	3.03e5	1.25	NO	1.35	1.010	51.18	51.16	1.092	1.092	NO	1365	69.0	1.48	
204	2... 13C-PCB-188	2.94e5	0.44	NO	1.46	1.010	43.22	43.22	0.926	0.926	NO	1394	70.4	1.18	
205	2... 13C-PCB-180	1.94e5	0.45	NO	0.932	1.010	49.93	49.95	1.070	1.070	NO	1443	72.9	1.85	
206	2... 13C-PCB-170	1.51e5	0.44	NO	0.796	1.010	51.60	51.60	1.106	1.106	NO	1313	66.4	2.16	
207	2... 13C-PCB-189	2.16e5	0.44	NO	1.09	1.010	53.28	53.28	1.142	1.142	NO	1370	69.2	1.58	
208	2... 13C-PCB-202	2.51e5	0.94	NO	1.45	1.010	48.83	48.83	1.046	1.046	NO	1199	60.6	0.661	
209	2... 13C-PCB-194	2.35e5	0.94	NO	0.714	1.010	54.90	54.89	0.995	0.995	NO	1519	76.7	1.07	
210	2... 13C-PCB-208	3.03e5	0.79	NO	0.896	1.010	54.14	54.14	0.982	0.981	NO	1559	78.8	1.05	
211	2... 13C-PCB-206	2.06e5	0.77	NO	0.653	1.010	56.42	56.42	1.023	1.023	NO	1453	73.4	1.44	
212	2... 13C-PCB-209	2.08e5	1.23	NO	0.806	1.010	57.65	57.64	1.045	1.045	NO	1190	60.1	0.203	

Dataset: U:\VG11.PRO\Results\191106K2\191106K2-6.qld

Last Altered: Sunday, November 10, 2019 13:13:32 Pacific Standard Time  
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Name: 191106K2\_6, Date: 07-Nov-2019, Time: 05:24:32, ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	7.44e5	1.60	NO	1.00	1.010	25.74	25.74	1.000	0.000	NO	1979	100	0.551	
214	2... 13C-PCB-31	6.14e5	1.03	NO	1.00	1.010	28.90	28.88	1.000	0.000	NO	1979	100	8.25	
215	2... 13C-PCB-60	5.76e5	0.77	NO	1.00	1.010	36.94	36.92	1.000	0.000	NO	1979	100	1.64	
216	2... 13C-PCB-111	4.86e5	1.63	NO	1.00	1.010	39.51	39.51	1.000	0.000	NO	1979	100	1.11	
217	2... 13C-PCB-128	3.26e5	1.24	NO	1.00	1.010	46.86	46.86	1.000	0.000	NO	1979	100	1.99	
218	2... 13C-PCB-182	2.86e5	0.45	NO	1.00	1.010	46.69	46.67	0.000	0.000	NO	1979	100	1.72	
219	2... 13C-PCB-205	4.30e5	0.89	NO	1.00	1.010	55.16	55.16	1.000	0.000	NO	1979	100	0.765	
220	2... 13C-PCB-79	5.24e5	0.76	NO	1.03	1.010	38.05	38.03	1.031	1.030	NO	1743	88.1	1.59	
221	2... 13C-PCB-178	2.26e5	0.43	NO	0.875	1.010	46.12	46.12	0.988	0.988	NO	1568	79.2	1.73	
222	2... 13C-PCB-79	5.24e5	0.76	NO	1.05	1.010	38.01	38.03	0.967	0.968	NO	2230	113	1.99	
223	2... 13C-PCB-178	2.26e5	0.43	NO	0.975	1.010	46.13	46.12	0.924	0.923	NO	2363	119	2.67	
224	2... Total Mono-PCBs				1.01	1.010	0.00		0.000		NO	1.465		0.989	1.465
225	2... Total Di-PCBs				1.06	1.010	0.00		0.000		NO	0.0000		10.6	7.603
226	2... 2nd Function Tri-PCBs				0.914	1.010	0.00		0.000		NO	3.929		2.69	5.068
227	2... 3rd Function Tri-PCBs				1.06	1.010	0.00		0.000		NO	0.9737		6.61	2.963
228	2... Total Tetra-PCBs				0.986	1.010	0.00		0.000		NO	42.29		15.7	46.95
229	2... 3rd Function Penta-PCBs				1.12	1.010	0.00		0.000		NO	1.857		14.5	2.872
230	2... 4th Function Penta-PCBs				1.11	1.010	0.00		0.000		NO			2.69	
231	2... 3rd Function Hexa-PCBs				0.774	1.010	0.00		0.000		NO	0.0000		5.53	0.9215
232	2... 4th Function Hexa-PCBs				0.972	1.010	0.00		0.000		NO	0.0000		6.73	0.6836
233	2... Total Hepta-PCBs				1.26	1.010	0.00		0.000		NO			5.48	
234	2... 4th Function Octa-PCBs				0.886	1.010	0.00		0.000		NO			2.830, 3.07	
235	2... 5th Function Octa-PCBs				1.20	1.010	0.00		0.000		NO	0.0000		0.728	0.8410
236	2... Total Nona-PCBs				0.945	1.010	0.00		0.000		NO	0.0000		0.364	0.2020
237	2... Deca-CB				0.943	1.010	0.00		0.000		NO			0.165	
238	2... Total PCBs														

Handwritten notes in the table area:  
 - Next to row 226: > 4.9027 -  
 - Next to row 227: > 8.031 -  
 - Next to row 232: > 1.6051 -  
 - Next to row 234: 2.830, 3.07

Dataset: U:\VG11.PRO\Results\191106K2\191106K2-6.qld

Last Altered: Sunday, November 10, 2019 13:13:32 Pacific Standard Time  
 Printed: Sunday, November 10, 2019 13:15:21 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-04-19.mdb 05 Nov 2019 14:32:48  
 Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

**Total Mono-PCBs**

Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-1	15.69	15.70	5.924e3	1.731e3	2.976e2	1.101e2	2.70	NO	4.076e2	1.4655	1.4655	0.320

**Total Di-PCBs**

Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-11	25.04	25.04	2.301e4	1.598e4	1.313e3	1.194e3	1.10	YES	2.507e3	0.00000	7.6032	0.208

**2nd Function Tri-PCBs**

Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-18	25.66	25.68	2.747e3	3.367e3	1.780e2	1.652e2	1.08	NO	3.432e2	1.9610	1.9610	0.496
2 PCB-17	25.84	25.86	1.883e3	1.570e3	1.224e2	9.408e1	1.30	YES	2.165e2	0.00000	1.1396	0.516
3 PCB-16/32	26.99	26.98	1.957e3	1.719e3	2.127e2	1.811e2	1.17	NO	3.938e2	1.9680	1.9680	0.434

**3rd Function Tri-PCBs**

Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-31	28.92	28.92	2.029e3	1.946e3	1.357e2	1.315e2	1.03	NO	2.672e2	0.97365	0.97365	0.440
2 PCB-28	29.01	29.01	3.225e3	1.554e3	2.182e2	1.197e2	1.82	YES	3.379e2	0.00000	0.90356	0.446
3 PCB-38	32.00	32.02	2.671e3	2.363e3	2.250e2	1.470e2	1.53	YES	3.719e2	0.00000	1.0862	0.445

Dataset: U:\VG11.PRO\Results\191106K2\191106K2-6.qld

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ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

**Total Tetra-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-51	30.06	30.09	3.863e3	5.768e3	2.736e2	4.298e2	0.64	YES	7.034e2	0.00000	3.2029	0.494
2	PCB-52/69	31.52	31.52	1.228e3	1.376e3	9.022e1	1.240e2	0.73	NO	2.143e2	1.0229	1.0229	0.464
3	PCB-43/49	31.81	31.82	1.028e3	1.305e3	7.152e1	1.029e2	0.69	NO	1.745e2	0.96729	0.96729	0.538
4	PCB-47	32.03	32.02	3.615e4	4.557e4	2.746e3	3.477e3	0.79	NO	6.224e3	35.492	35.492	0.554
5	PCB-44	32.86	32.86	8.570e2	1.420e3	6.711e1	8.705e1	0.77	NO	1.542e2	1.0037	1.0037	0.633
6	PCB-41/64/71/72	33.70	33.70	1.460e3	1.343e3	9.507e1	8.179e1	1.16	YES	1.769e2	0.00000	0.66298	0.445
7	PCB-68	33.99	33.96	5.302e3	5.958e3	3.613e2	4.908e2	0.74	NO	8.521e2	3.8080	3.8080	0.434
8	PCB-76/66	35.83	35.88	1.194e3	1.411e3	1.298e2	1.032e2	1.26	YES	2.331e2	0.00000	0.78617	0.432

**3rd Function Penta-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-90/101	37.72	37.72	1.393e3	1.251e3	1.643e2	1.118e2	1.47	NO	2.761e2	1.8570	1.8570	0.570
2	PCB-110	40.04	40.03	1.801e3	1.628e3	1.307e2	1.180e2	1.11	YES	2.488e2	0.00000	1.0152	0.409

**4th Function Penta-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1													

**3rd Function Hexa-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-139/149	41.93	41.85	8.130e2	6.820e2	7.430e1	4.577e1	1.62	YES	1.201e2	0.00000	0.92149	0.203

**4th Function Hexa-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-138/163/164	45.29	45.27	1.361e3	6.970e2	1.075e2	5.640e1	1.91	YES	1.639e2	0.00000	0.68360	0.244

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ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

**Total Hepta-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**4th Function Octa-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**5th Function Octa-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	PCB-194	54.90	54.89	1.351e3	1.211e3	7.022e1	6.113e1	1.15	YES	1.313e2	0.00000	0.84098	0.166

**Total Nona-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	PCB-208	54.16	54.15	4.690e2	2.840e2	2.117e1	1.236e1	1.71	YES	3.353e1	0.00000	0.20203	0.0704

**Deca-CB**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**Total PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**Total Mono-Isotopes**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-1	15.68	15.68	7.262e6	2.312e6	4.094e5	1.301e5	3.15	NO	5.395e5	1331.5	2.32
2	13C-PCB-3	18.34	18.35	7.188e6	2.042e6	4.316e5	1.243e5	3.47	NO	5.559e5	1355.2	2.29

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ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

**Total Di-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-4	19.70	19.71	3.080e6	1.982e6	1.860e5	1.181e5	1.57	NO	3.041e5	1264.0		0.862
2	13C-PCB-9	21.54	21.54	5.103e6	3.273e6	3.188e5	2.027e5	1.57	NO	5.216e5	1393.5		0.554
3	13C-PCB-11	25.02	25.02	4.896e6	3.195e6	3.121e5	1.998e5	1.56	NO	5.119e5	1401.4		0.567
4	13C-PCB-15	25.74	25.74	7.183e6	4.400e6	4.585e5	2.859e5	1.60	NO	7.443e5	1979.4		0.551

**2nd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-19	23.96	23.96	2.942e6	2.953e6	1.831e5	1.836e5	1.00	NO	3.667e5	1530.2		8.83
2	13C-PCB-32	26.98	26.97	3.740e6	3.884e6	2.487e5	2.512e5	0.99	NO	4.999e5	1461.0		6.18

**3rd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-31	28.90	28.88	4.276e6	4.146e6	3.120e5	3.024e5	1.03	NO	6.144e5	1979.4		8.25
2	13C-PCB-28	28.97	28.99	3.228e6	3.117e6	2.434e5	2.401e5	1.01	NO	4.836e5	1457.1		7.72
3	13C-PCB-37	32.97	32.99	3.188e6	3.155e6	2.450e5	2.391e5	1.02	NO	4.841e5	1625.4		8.60

**Tetra-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-54	27.83	27.82	2.396e6	3.204e6	1.811e5	2.387e5	0.76	NO	4.198e5	1313.0		1.49
2	13C-PCB-52	31.48	31.49	2.193e6	2.876e6	1.640e5	2.158e5	0.76	NO	3.798e5	1545.3		1.94
3	13C-PCB-47	32.00	32.01	2.343e6	2.971e6	1.753e5	2.242e5	0.78	NO	3.996e5	1536.3		1.84
4	13C-PCB-70	35.63	35.65	2.404e6	3.208e6	1.856e5	2.459e5	0.75	NO	4.315e5	1470.9		1.63
5	13C-PCB-80	36.06	36.08	2.546e6	3.347e6	1.903e5	2.491e5	0.76	NO	4.393e5	1442.9		1.57
6	13C-PCB-60	36.94	36.92	3.190e6	4.225e6	2.510e5	3.253e5	0.77	NO	5.763e5	1979.4		1.64
7	13C-PCB-79	38.05	38.03	2.882e6	3.824e6	2.261e5	2.976e5	0.76	NO	5.237e5	1742.9		1.59
8	13C-PCB-81	39.28	39.28	2.500e6	3.257e6	1.921e5	2.525e5	0.76	NO	4.447e5	1550.7		1.67
9	13C-PCB-77	39.89	39.90	2.383e6	3.101e6	1.889e5	2.476e5	0.76	NO	4.365e5	1564.5		1.71



Dataset: U:\VG11.PRO\Results\191106K2\191106K2-6.qld

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ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

3rd Function Penta-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-104	32.69	32.68	3.402e6	2.140e6	2.529e5	1.595e5	1.59	NO	4.125e5	1531.8		1.01
2	13C-PCB-95	35.97	35.95	2.372e6	1.560e6	1.824e5	1.164e5	1.57	NO	2.987e5	1428.4		1.30
3	13C-PCB-101	37.72	37.70	2.532e6	1.568e6	1.925e5	1.193e5	1.61	NO	3.118e5	1561.4		1.37
4	13C-PCB-97	39.05	39.04	2.252e6	1.392e6	1.747e5	1.069e5	1.63	NO	2.816e5	1617.1		1.57
5	13C-PCB-111	39.51	39.51	3.853e6	2.376e6	3.013e5	1.845e5	1.63	NO	4.859e5	1979.4		1.11
6	13C-PCB-123	41.69	41.70	2.865e6	1.729e6	2.162e5	1.329e5	1.63	NO	3.491e5	1543.1		1.21
7	13C-PCB-118	41.88	41.89	2.813e6	1.752e6	2.160e5	1.353e5	1.60	NO	3.512e5	1467.6		1.14

4th Function Penta-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-114	42.56	42.56	2.591e6	1.575e6	1.999e5	1.224e5	1.63	NO	3.223e5	1287.3		1.24
2	13C-PCB-105	43.45	43.45	2.560e6	1.584e6	2.009e5	1.241e5	1.62	NO	3.251e5	1245.9		1.19
3	13C-PCB-127	43.81	43.81	2.579e6	1.628e6	2.069e5	1.297e5	1.59	NO	3.366e5	1259.5		1.17
4	13C-PCB-126	45.76	45.76	2.665e6	1.690e6	2.097e5	1.335e5	1.57	NO	3.431e5	1440.7		1.31

4th Function Hexa-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-153	43.62	43.62	2.309e6	1.830e6	1.769e5	1.406e5	1.26	NO	3.175e5	1353.0		1.40
2	13C-PCB-141	44.40	44.38	2.047e6	1.504e6	1.560e5	1.164e5	1.34	NO	2.724e5	1446.6		1.74
3	13C-PCB-138	45.25	45.25	2.211e6	1.735e6	1.670e5	1.313e5	1.27	NO	2.983e5	1533.9		1.69
4	13C-PCB-159	46.60	46.58	2.517e6	1.950e6	1.988e5	1.540e5	1.29	NO	3.528e5	1493.7		1.39
5	13C-PCB-128	46.86	46.86	2.292e6	1.859e6	1.804e5	1.458e5	1.24	NO	3.262e5	1979.4		1.99
6	13C-PCB-167	47.30	47.28	2.540e6	2.020e6	1.993e5	1.579e5	1.26	NO	3.572e5	1522.2		1.40
7	13C-PCB-156	48.62	48.60	2.368e6	1.828e6	1.910e5	1.488e5	1.28	NO	3.398e5	1475.4		1.42
8	13C-PCB-157	48.91	48.89	2.401e6	1.852e6	1.923e5	1.467e5	1.31	NO	3.390e5	1462.4		1.41
9	13C-PCB-169	51.18	51.16	2.036e6	1.630e6	1.685e5	1.344e5	1.25	NO	3.029e5	1365.4		1.48

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191106K2\191106K2-6.qld

Last Altered: Sunday, November 10, 2019 13:13:32 Pacific Standard Time

Printed: Sunday, November 10, 2019 13:15:21 Pacific Standard Time

ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

5th Function Octa-Isotopes

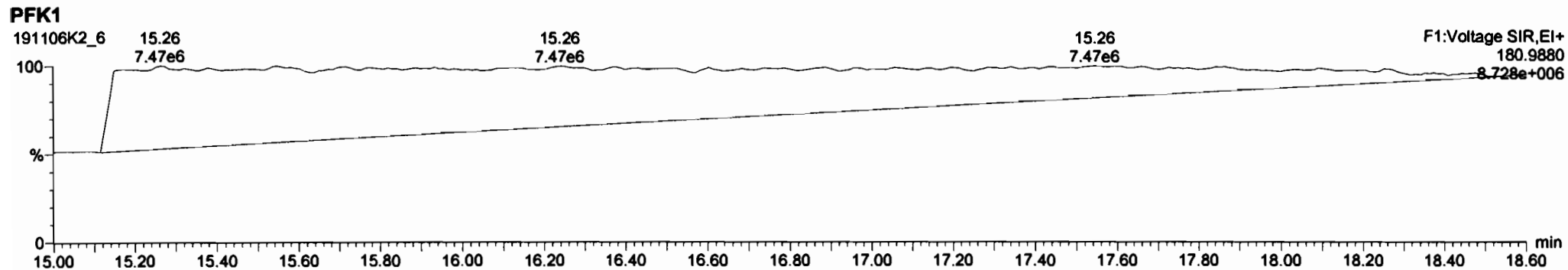
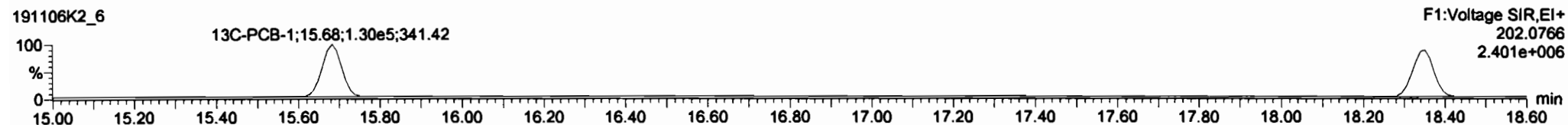
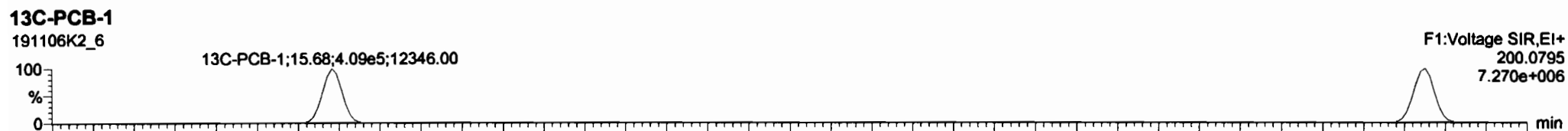
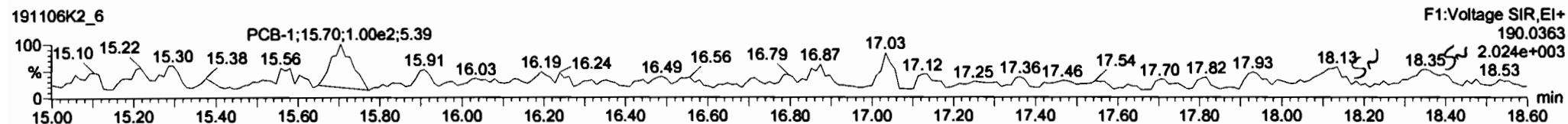
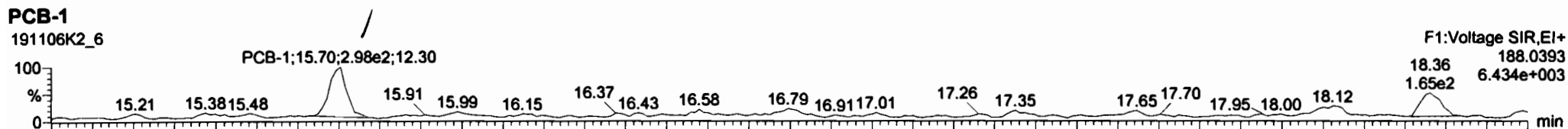
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1	13C-PCB-194	54.90	54.89	2.066e6	2.193e6	1.142e5	1.211e5	0.94	NO	2.352e5	1518.9		1.07
2	13C-PCB-205	55.16	55.16	3.760e6	4.188e6	2.023e5	2.274e5	0.89	NO	4.296e5	1979.4		0.765

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Last Altered: Thursday, November 07, 2019 12:25:35 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:28:48 Pacific Standard Time

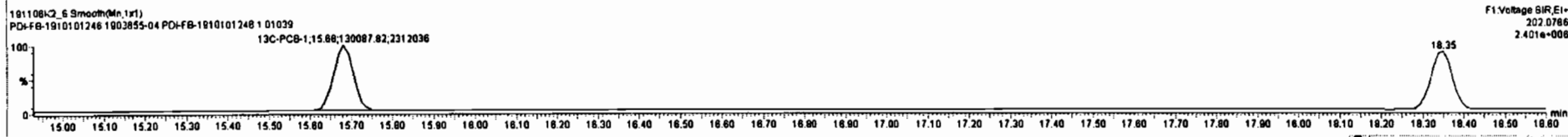
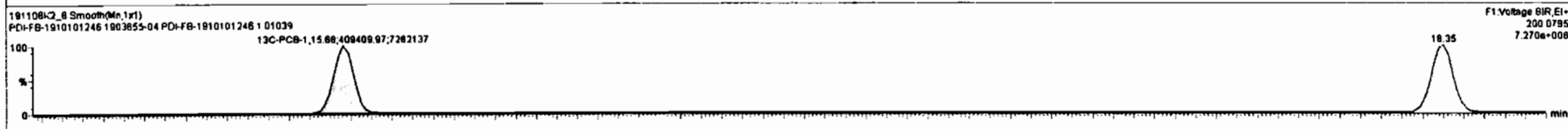
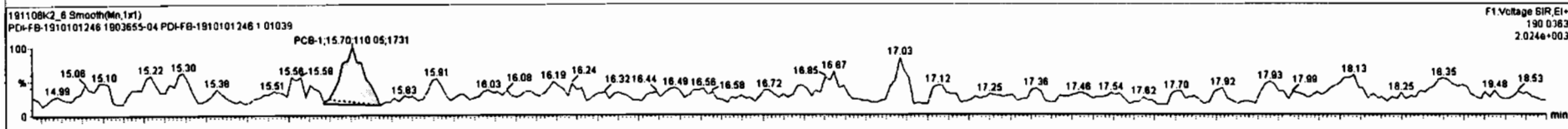
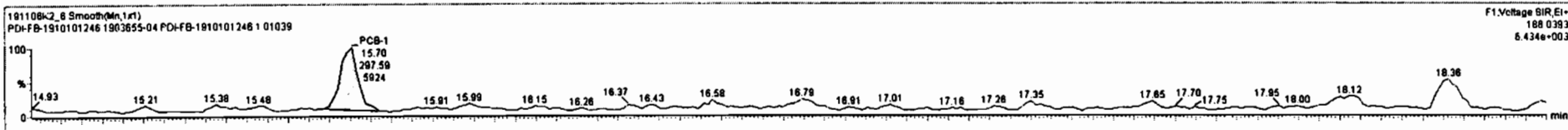
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Name: 191106K2\_6, Date: 07-Nov-2019, Time: 05:24:32, ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246



#	Name	Resp	RA	nly	RSP	wAve	Pred RT	RT	Pred R	RRT	RRT Fat	Conc.	%Res	DL	EMPC
224	224 Total Mono-PCBs				0.9722	1.010	0.00	0.000	0.000	NO	1.486			0.580	1.486
225	225 Total Di-PCBs				1.0582	1.010	0.00	0.000	0.000	NO	0.0000	2.58	0.2912		
226	226 2nd Function Tri-PCBs				0.9137	1.010	0.00	0.000	0.000	NO	1.066	6.61	3.194		
227	227 3rd Function Tri-PCBs				1.0583	1.010	0.00	0.000	0.000	NO	38.88	15.7	45.07		
228	228 Total Tetra-PCBs				0.9861	1.010	0.00	0.000	0.000	NO	0.0000	14.5	1.827		
229	229 3rd Function Penta-PCBs				1.1154	1.010	0.00	0.000	0.000	NO					
230	230 4th Function Penta-PCBs				1.1112	1.010	0.00	0.000	0.000	NO					

#	Name	Pred RT	RT	ret Resp	w2 Resp	*Ratio (Pred)	RA	nly	EMPC	Conc.
1	1 PCB-1	15.68	15.70	2.976e2	1.101e2	3.130	2.70	NO	1.4855	1.4855



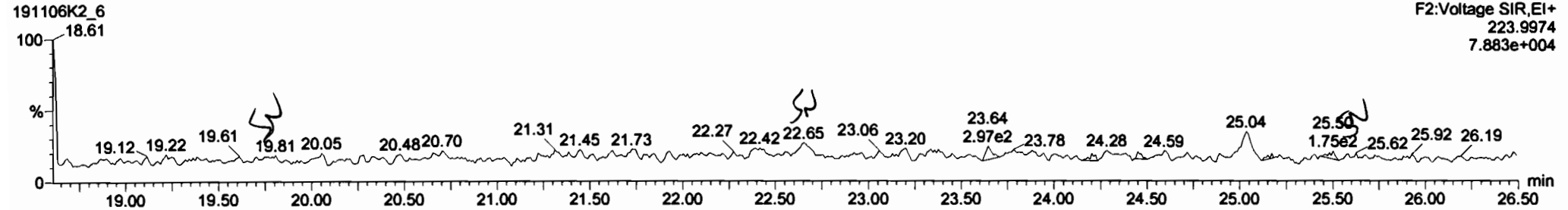
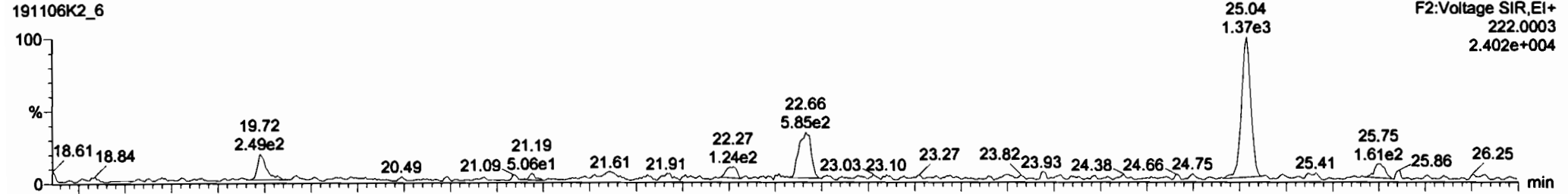
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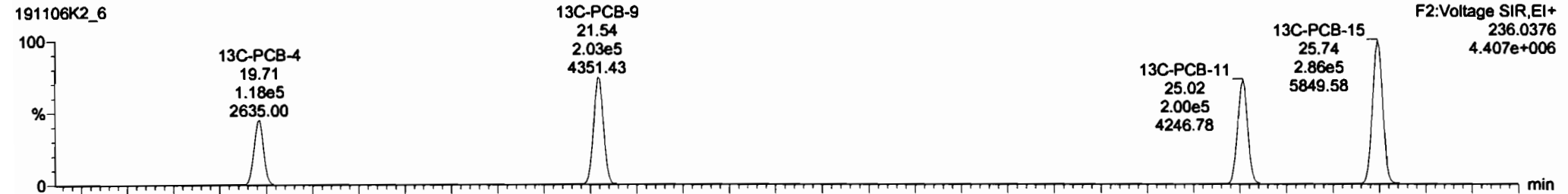
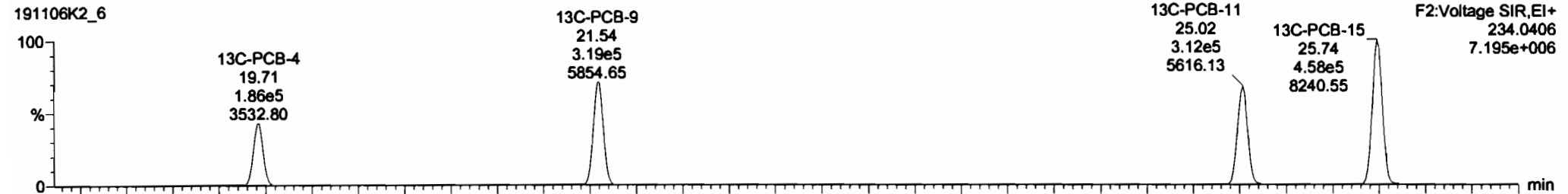
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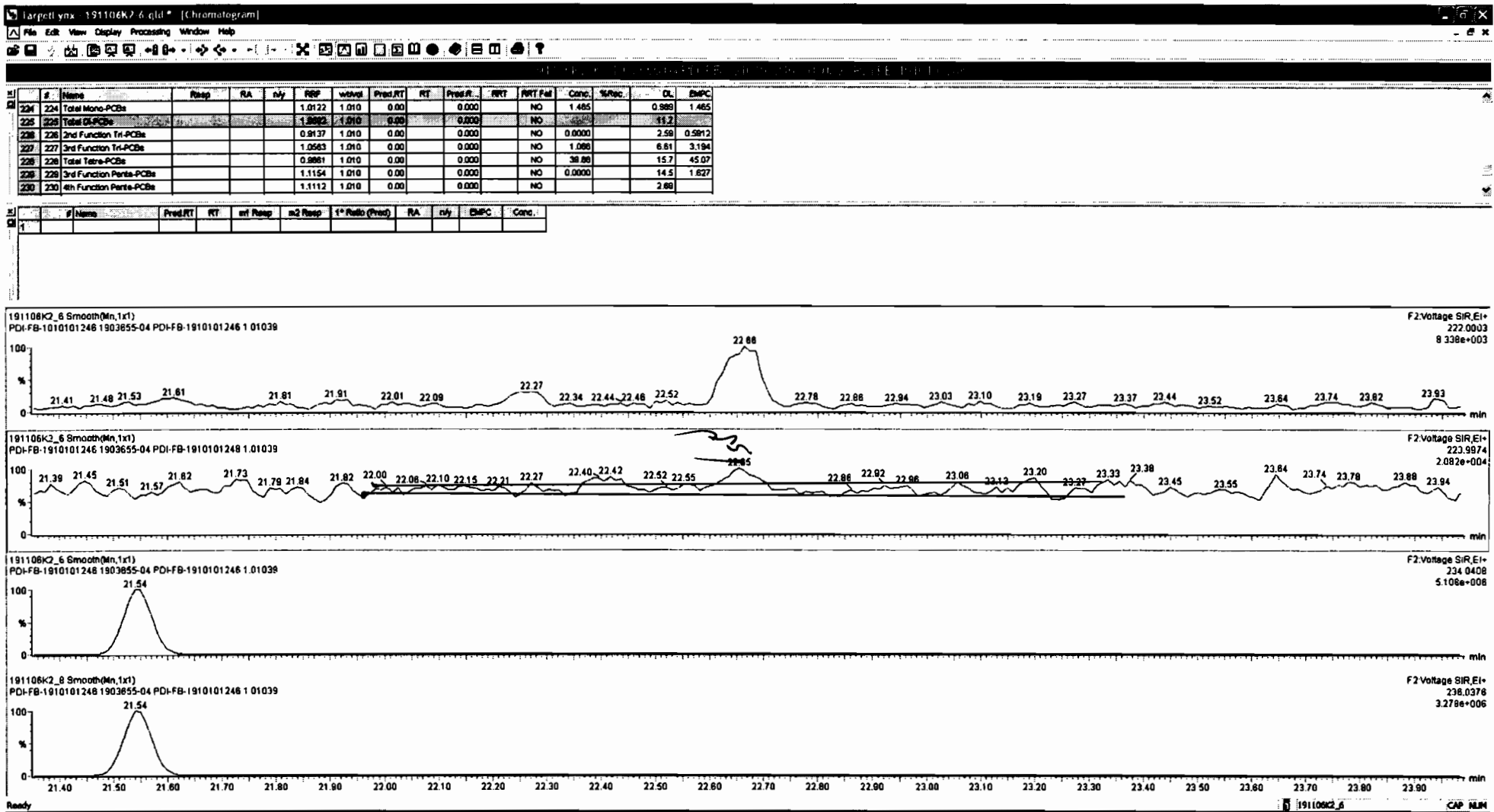
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PCB-4/10



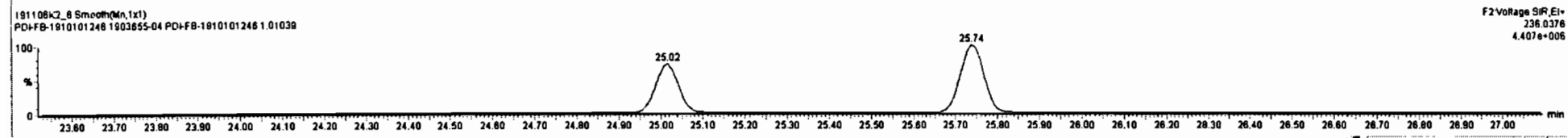
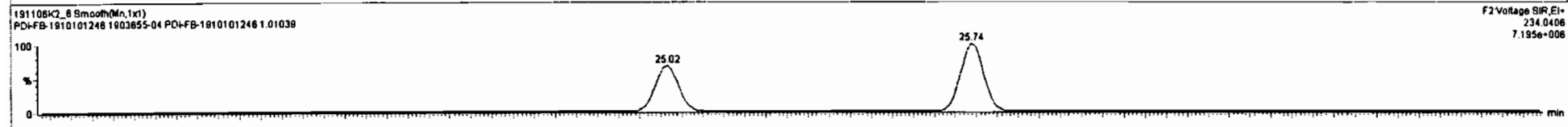
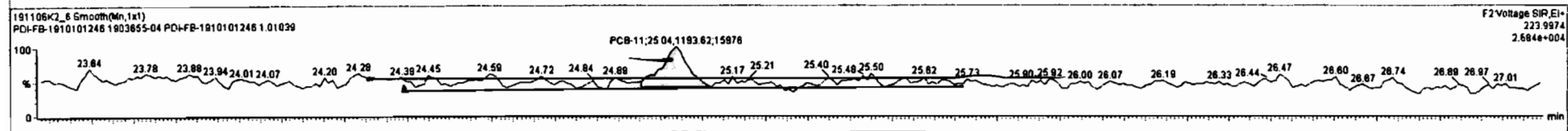
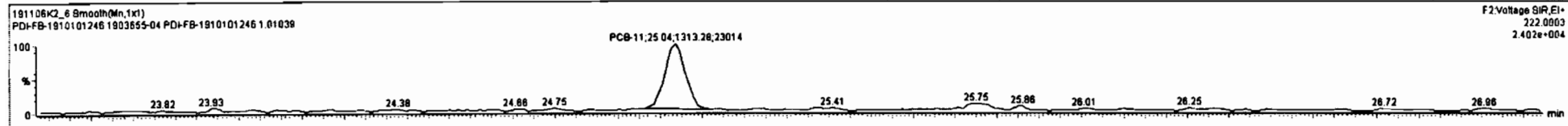
13C-PCB-4





#	Name	Resp	RA	nlv	RfF	wtVnd	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0122	1.010	0.00	0.000			NO	1.465		0.989	1.465
225	225 Total Di-PCBs				1.0082	1.010	0.00	0.000			NO	0.0000		10.8	7.868
226	226 2nd Function Tri-PCBs				0.9137	1.010	0.00	0.000			NO	0.0000		2.58	0.5912
227	227 3rd Function Tri-PCBs				1.0563	1.010	0.00	0.000			NO	1.086		6.61	3.194
228	228 Total Tetra-PCBs				0.9861	1.010	0.00	0.000			NO	39.88		15.7	45.07
229	229 3rd Function Penta-PCBs				1.1154	1.010	0.00	0.000			NO	0.0000		14.5	1.627
230	230 4th Function Penta-PCBs				1.1112	1.010	0.00	0.000			NO			2.69	

#	Name	Pred.RT	RT	nlv Resp	w2 Resp	1* Ratio (Pred)	RA	nlv	EMPC	Conc.
1	8 PCB-11	25.04	25.04	1.313e3	1.184e3	1.980	1.10	YES	7.8032	0.00000



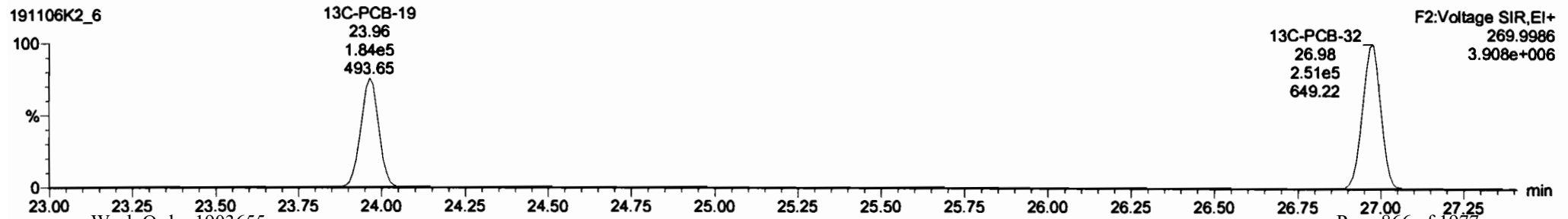
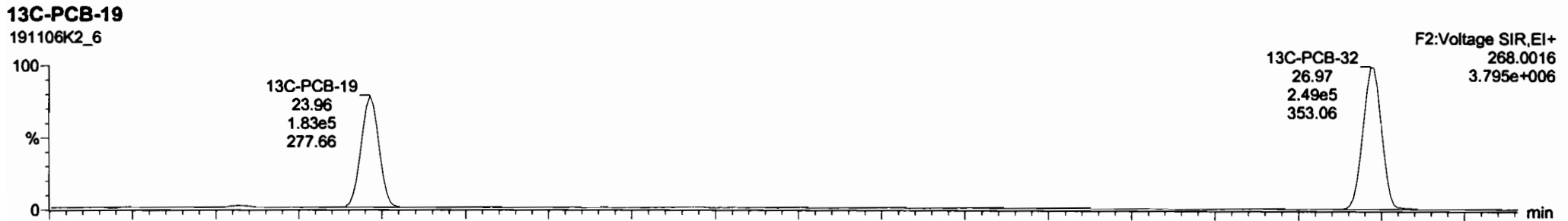
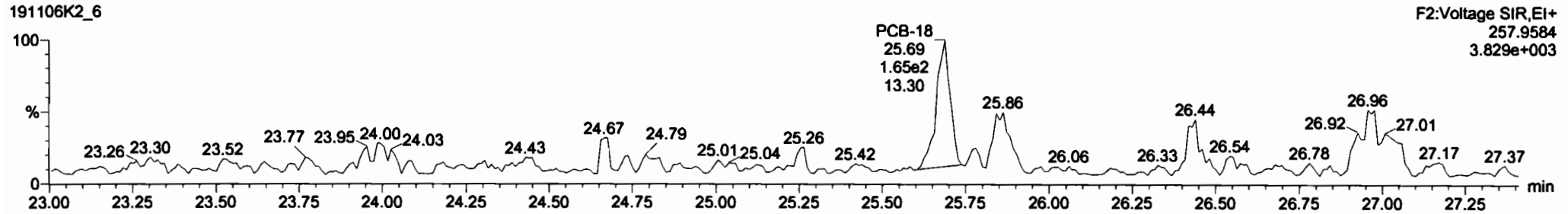
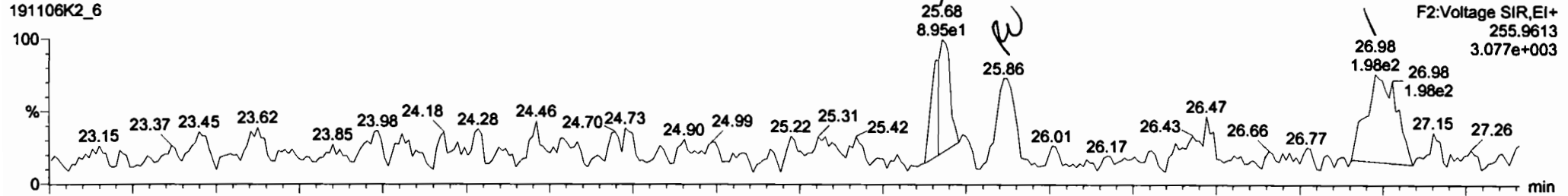
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Last Altered: Thursday, November 07, 2019 12:25:35 Pacific Standard Time

Printed: Thursday, November 07, 2019 12:28:48 Pacific Standard Time

Name: 191106K2\_6, Date: 07-Nov-2019, Time: 05:24:32, ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

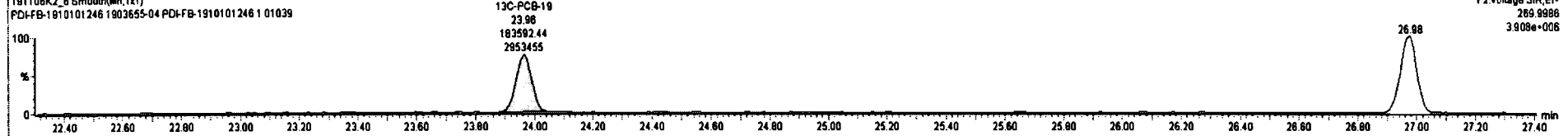
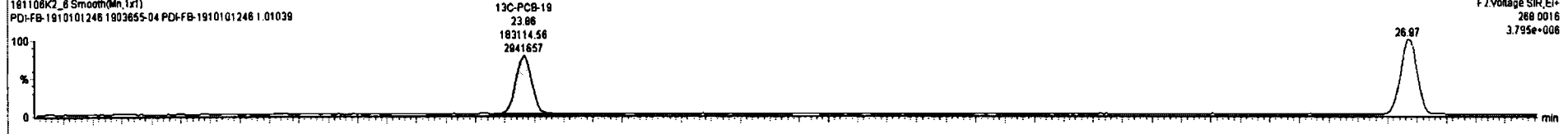
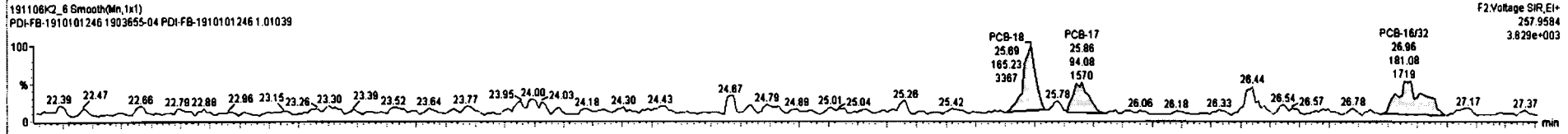
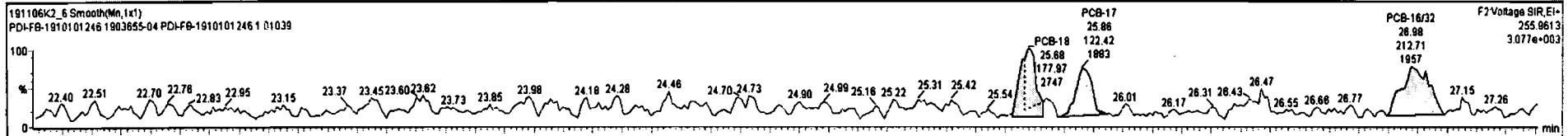
**PCB-19**





#	Name	Resp	RA	n/y	RRF	wtdet	Pred.RT	RT	Pred.RT	RT	RT Fat	Conc.	%Rec	DL	EMPC
224	Total Mono-PCBs				1.0122	1.010	0.00		0.000		NO	1.485		0.988	1.485
225	Total Di-PCBs				1.0592	1.010	0.00		0.000		NO	0.0000		10.6	7.603
226	2nd Function Tri-PCBs				0.9737	1.010	0.00		0.000		NO	3.928		2.98	5.088
227	3rd Function Tri-PCBs				1.0583	1.010	0.00		0.000		NO	1.088		6.81	3.194
228	Total Tetra-PCBs				0.9861	1.010	0.00		0.000		NO	39.88		15.7	45.07
229	3rd Function Penta-PCBs				1.1154	1.010	0.00		0.000		NO	0.0000		14.5	1.527
230	4th Function Penta-PCBs				1.1112	1.010	0.00		0.000		NO				2.89

#	Name	Pred.RT	RT	sr1 Resp	sr2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	14 PCB-18	25.86	25.88	1.780e2	1.652e2	1.040	1.08	NO	1.9810	1.9810
2	15 PCB-17	25.84	25.86	1.224e2	9.408e1	1.040	1.30	YES	1.1388	0.00000
3	17 PCB-16/32	26.98	26.98	2.127e2	1.811e2	1.040	1.17	NO	1.9890	1.9890



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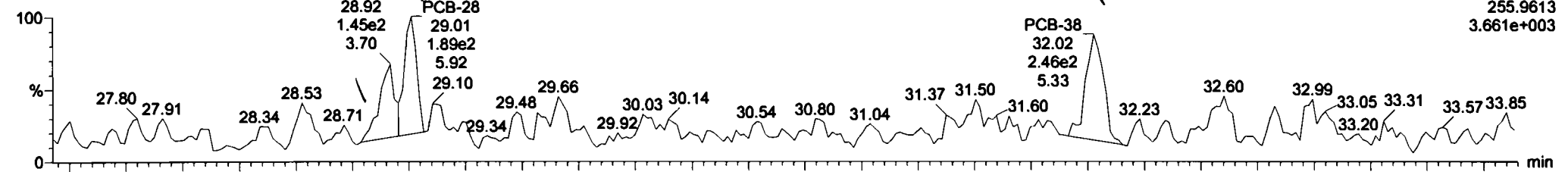
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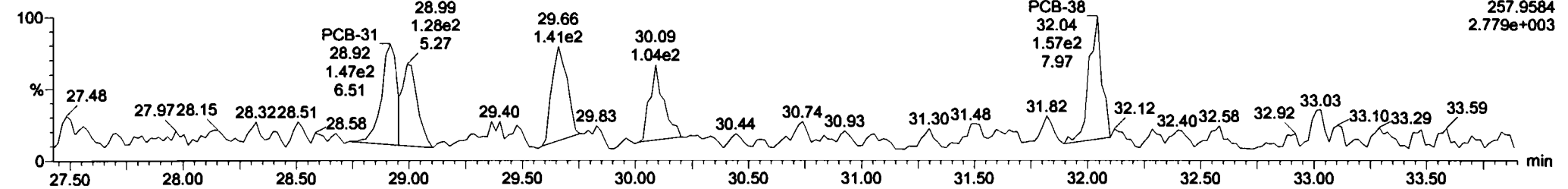
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**PCB-34**

191106K2\_6

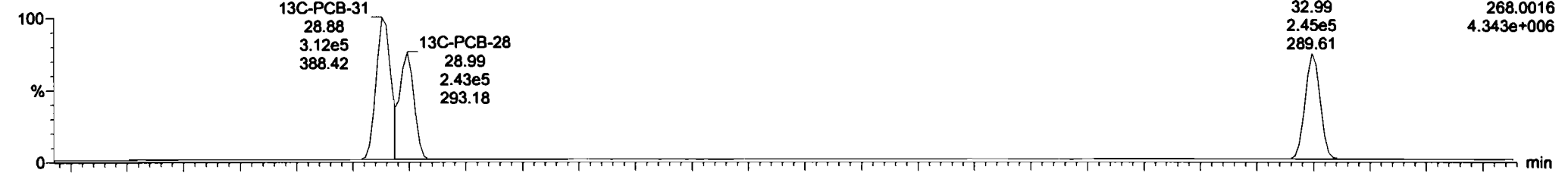


191106K2\_6

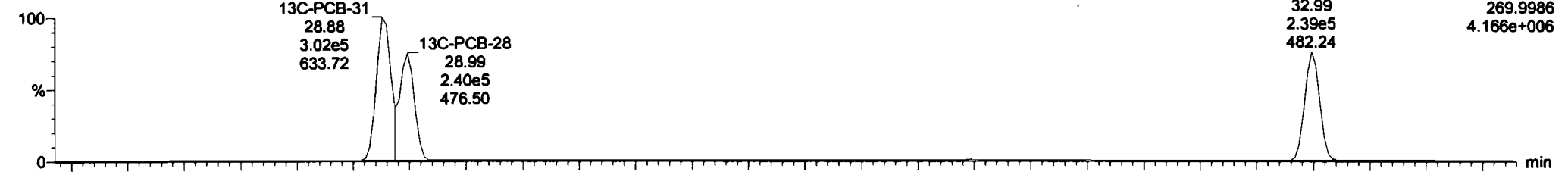


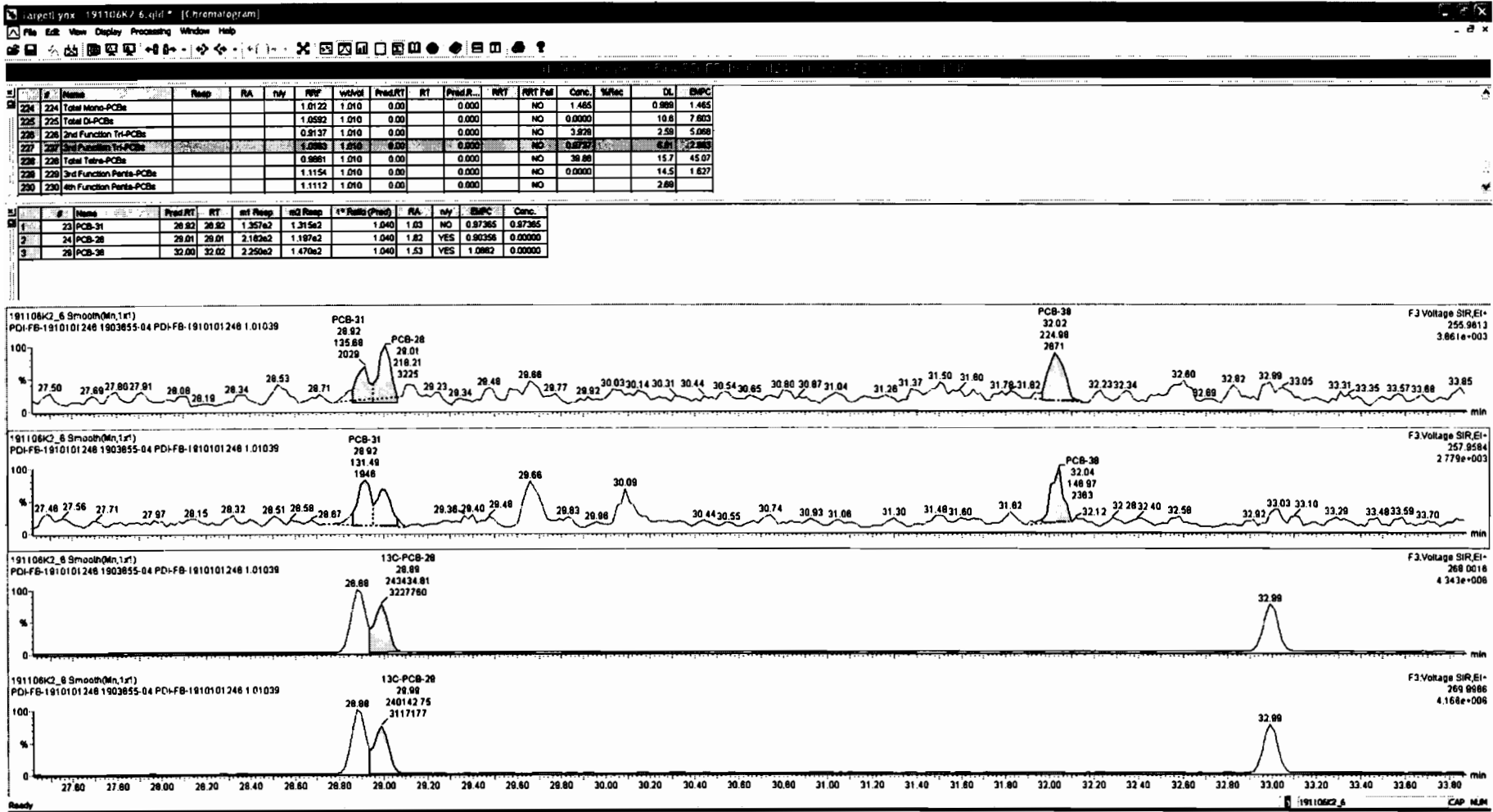
**13C-PCB-28**

191106K2\_6



191106K2\_6



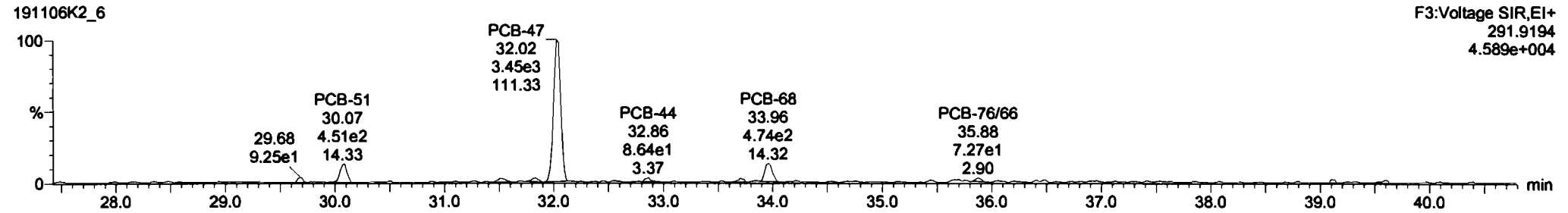
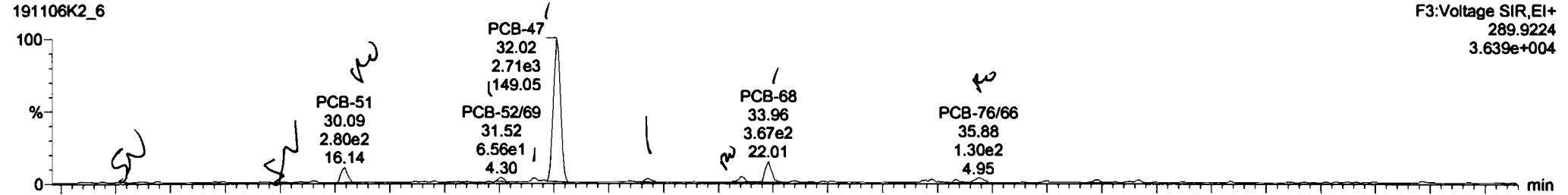


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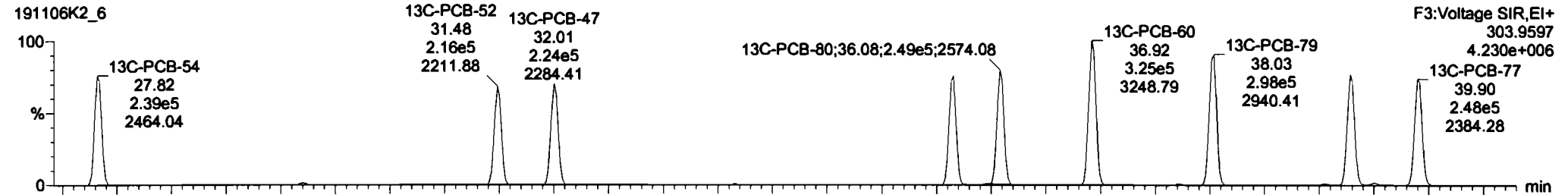
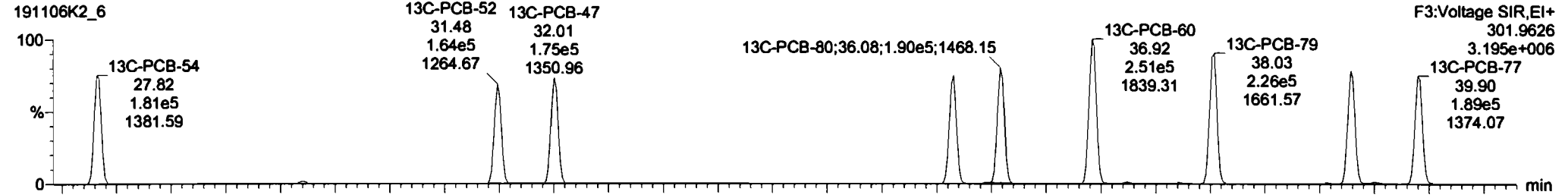
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PCB-54



13C-PCB-54



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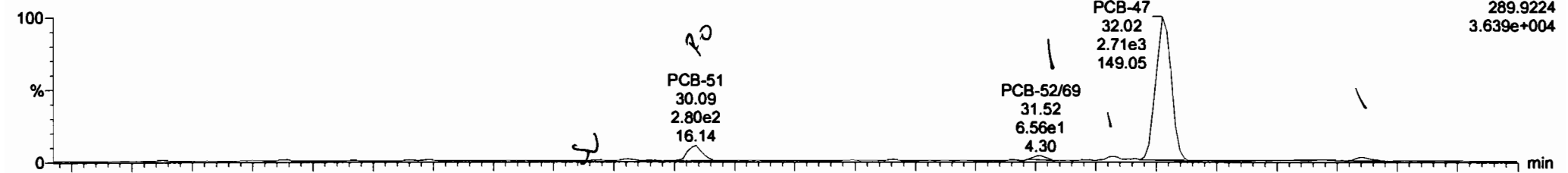
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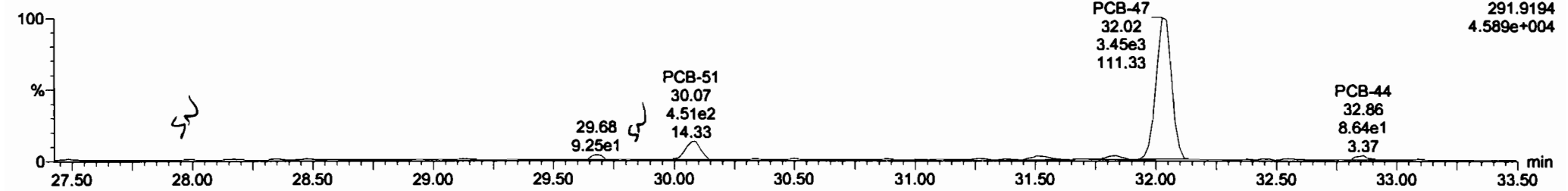
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**PCB-50**

191106K2\_6

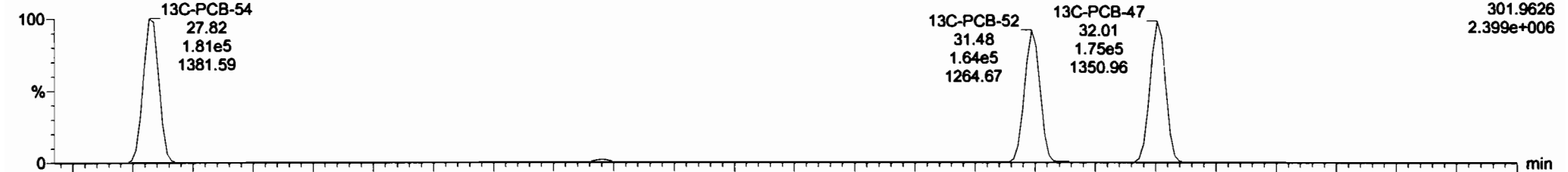


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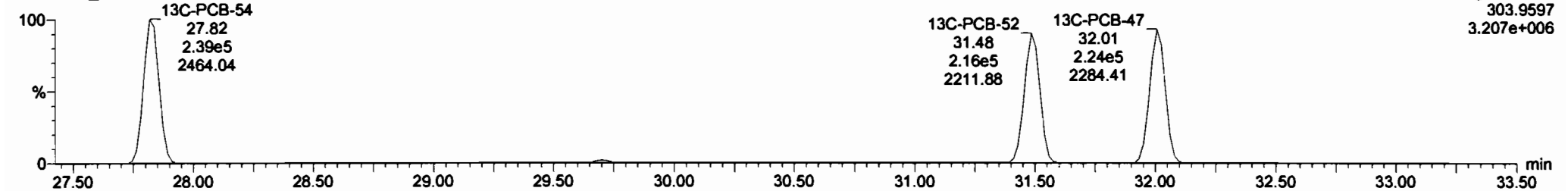


**13C-PCB-52**

191106K2\_6

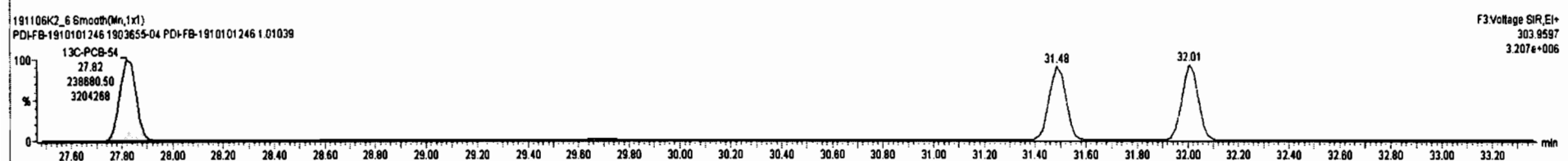
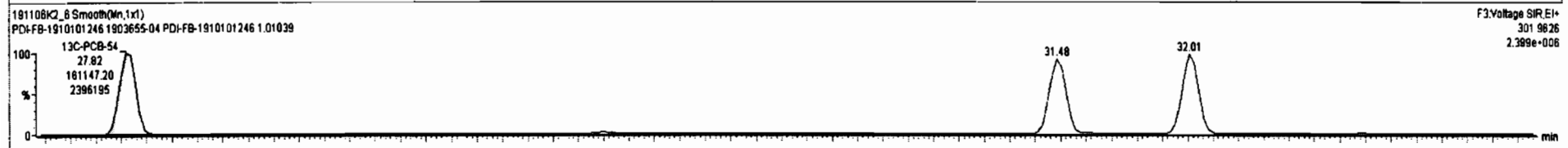
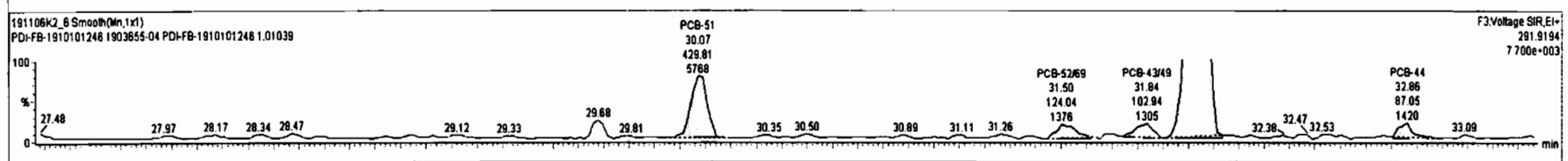
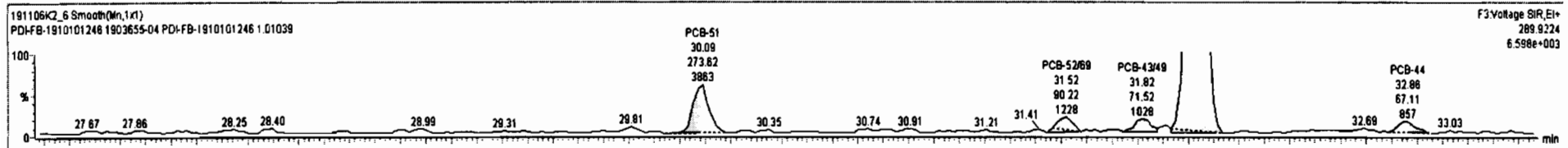


191106K2\_6



#	Name	Resp	RA	nly	RRF	refVal	Prod_RT	RT	Prod_R	RRT	RRT Fail	Conc.	%Rec	DL	ExpC
224	Total Mono-PCBs				1.0122	1.010	0.00		0.000		NO	1.465		0.999	1.465
225	Total Di-PCBs				1.0592	1.010	0.00		0.000		NO	0.0000		10.8	7.603
226	2nd Function Tri-PCBs				0.9137	1.010	0.00		0.000		NO	3.928		2.59	5.088
227	3rd Function Tri-PCBs				1.0563	1.010	0.00		0.000		NO	0.9737		6.61	2.953
228	Total Tetra-PCBs				0.9891	1.010	0.00		0.9891		NO	42.28		16.2	46.86
229	3rd Function Penta-PCBs				1.1154	1.010	0.00		0.000		NO	0.0000		14.5	1.627
230	4th Function Penta-PCBs				1.1112	1.010	0.00		0.000		NO				2.89

#	Name	Prod_RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Prod)	RA	nly	ExpC	Conc.
1	35 PCB-51	30.06	30.09	2.736e2	4.298e2	0.770	0.64	YES	3.2028	0.00000
2	36 PCB-52/69	31.52	31.52	9.022e1	1.240e2	0.770	0.73	NO	1.0228	1.0228
3	40 PCB-43/49	31.81	31.82	7.152e1	1.029e2	0.770	0.69	NO	0.96728	0.96728
4	41 PCB-47	32.03	32.02	2.746e3	3.477e3	0.770	0.79	NO	35.492	35.492
5	45 PCB-44	32.86	32.86	6.711e1	8.705e1	0.770	0.77	NO	1.0037	1.0037
6	47 PCB-41/64/1/72	33.70	33.70	9.507e1	8.179e1	0.770	1.16	YES	0.86298	0.00000

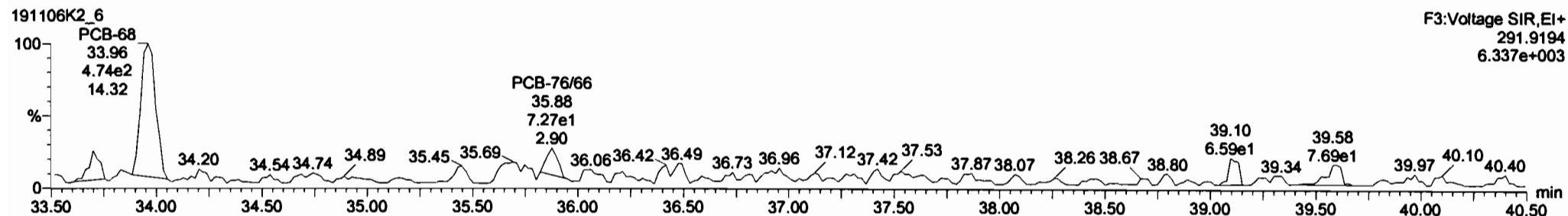
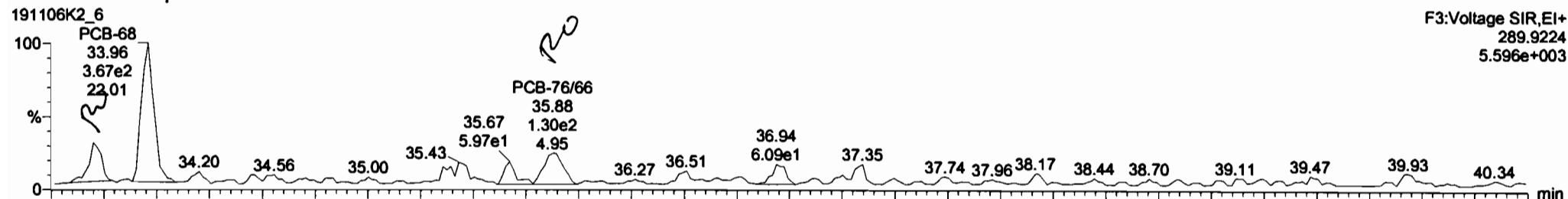


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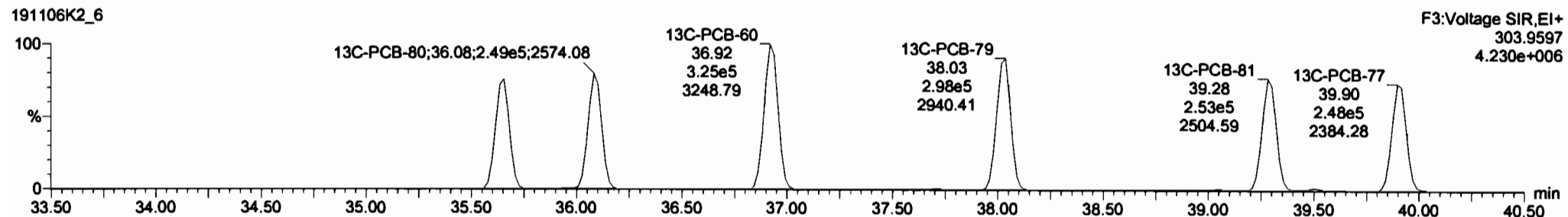
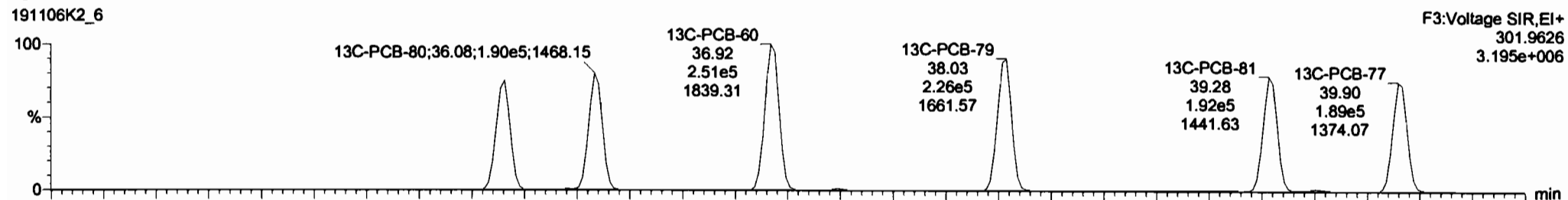
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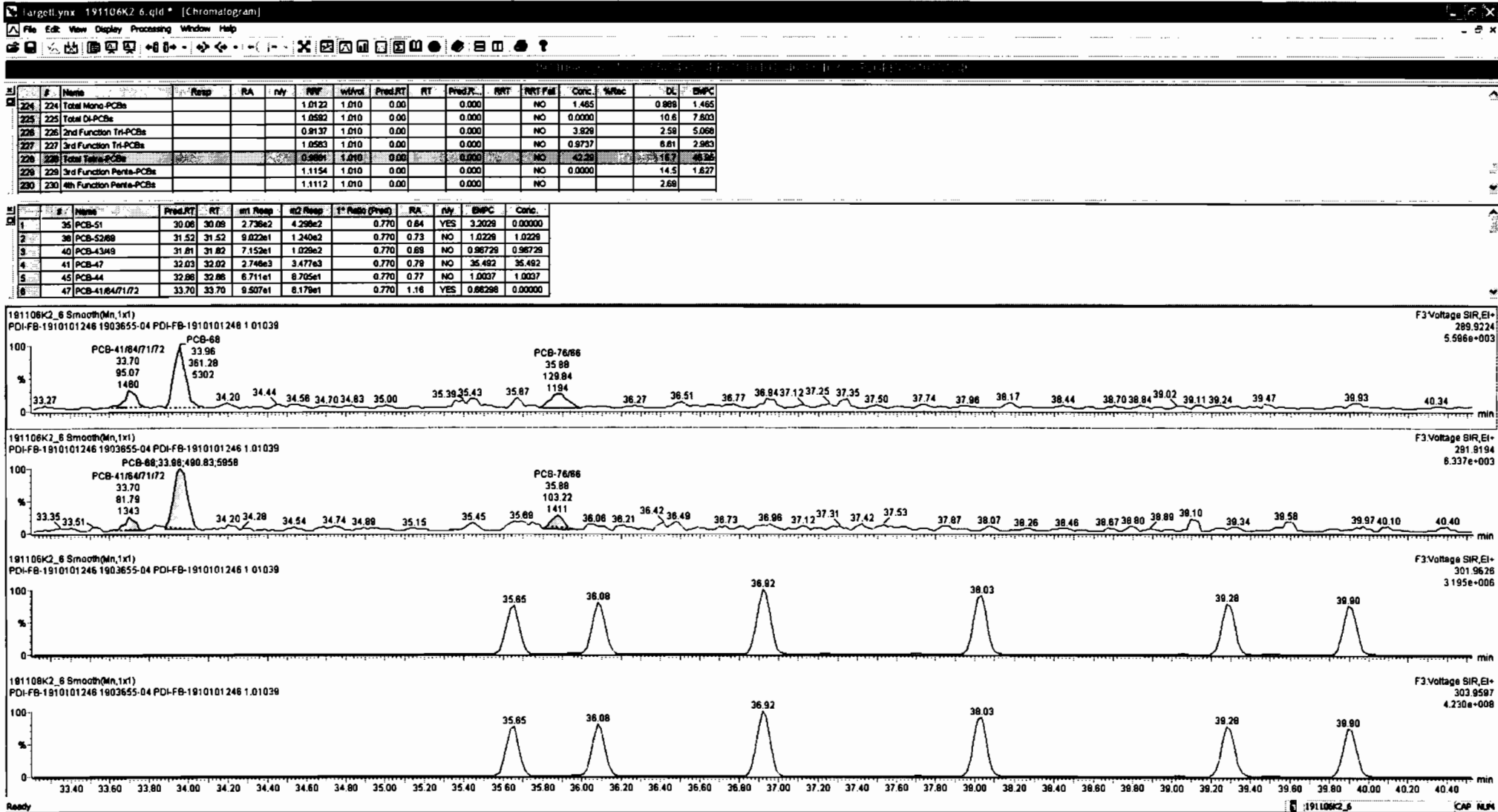
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PCB-68



13C-PCB-60

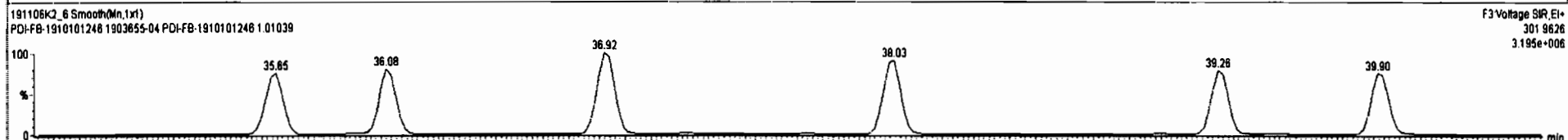
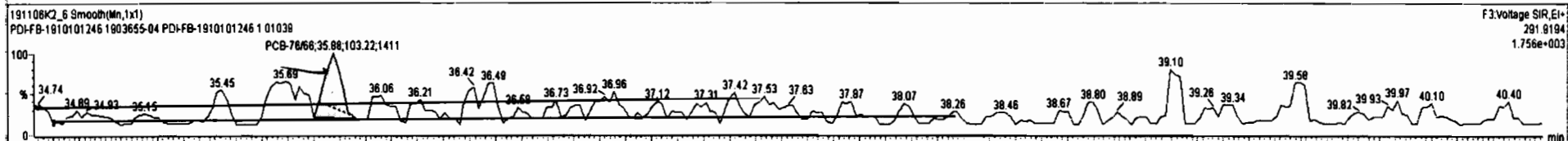
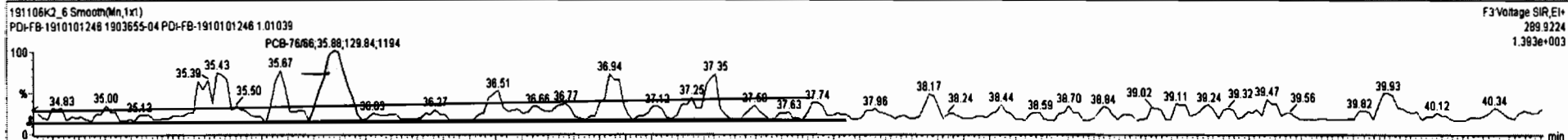






#	Name	Resp	RA	nly	RPF	wtCnd	Pred.RT	RT	Pred.RT	RT	RRT	RRT	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0122	1.010	0.00		0.000				NO	1.465	0.989	1.465
225	225 Total Di-PCBs				1.0582	1.010	0.00		0.000				NO	0.0000	10.6	7.603
226	226 2nd Function Tri-PCBs				0.9137	1.010	0.00		0.000				NO	3.929	2.59	5.068
227	227 3rd Function Tri-PCBs				1.0563	1.010	0.00		0.000				NO	0.9737	6.61	2.963
228	228 Total Tetra-PCBs				0.8891	1.010	0.00		0.000				NO	42.29	16.7	46.85
229	229 3rd Function Penta-PCBs				1.1154	1.010	0.00		0.000				NO	0.0000	14.5	1.627
230	230 4th Function Penta-PCBs				1.1112	1.010	0.00		0.000				NO		2.68	

#	Name	Pred.RT	RT	wf Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
3	40 PCB-43/49	31.81	31.82	7.152e1	1.029e2	0.770	0.68	NO	0.96729	0.96729
4	41 PCB-47	32.03	32.02	2.748e3	3.477e3	0.770	0.79	NO	35.482	35.482
5	45 PCB-44	32.86	32.86	6.711e1	8.705e1	0.770	0.77	NO	1.0037	1.0037
6	47 PCB-41/64/71/72	33.70	33.70	9.507e1	8.179e1	0.770	1.16	YES	0.66298	0.00000
7	48 PCB-68	33.99	33.98	3.613e2	4.908e2	0.770	0.74	NO	3.8080	3.8080
8	56 PCB-76/66	35.83	35.88	1.298e2	1.032e2	0.770	1.26	YES	0.78817	0.00000



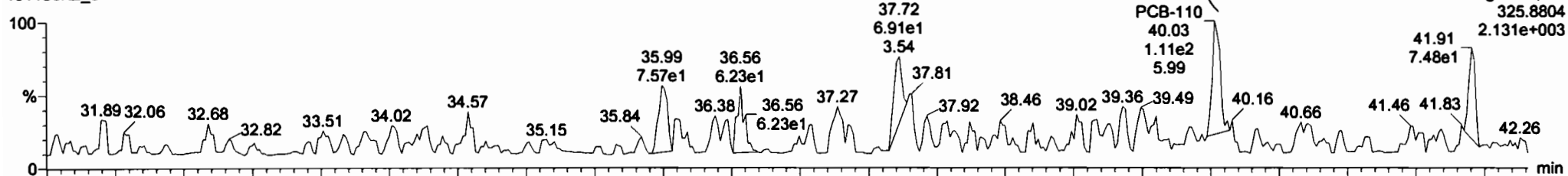
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Last Altered: Thursday, November 07, 2019 12:25:35 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:28:48 Pacific Standard Time

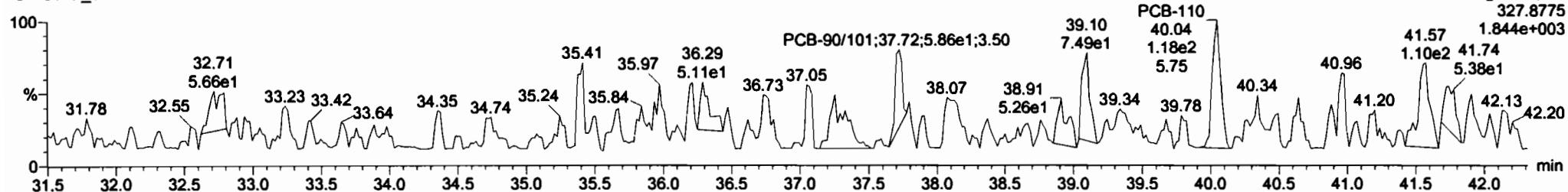
Name: 191106K2\_6, Date: 07-Nov-2019, Time: 05:24:32, ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

PCB-104

191106K2\_6

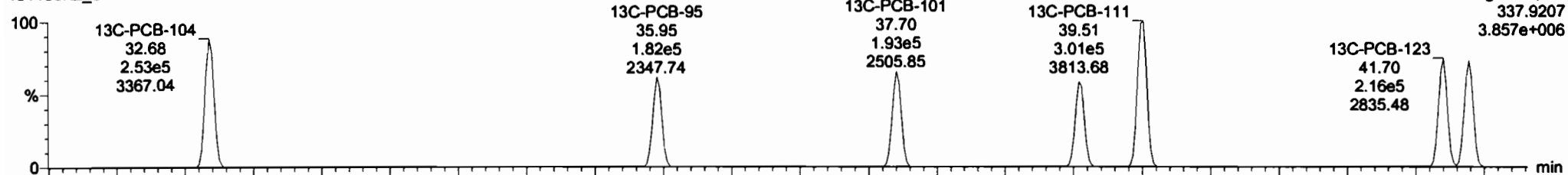


191106K2\_6

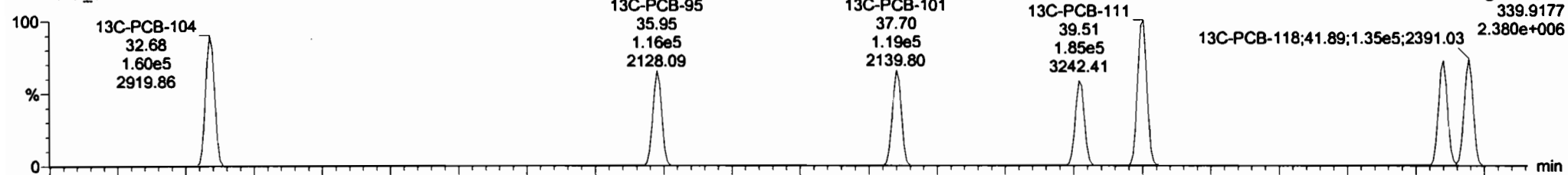


13C-PCB-104

191106K2\_6



191106K2\_6

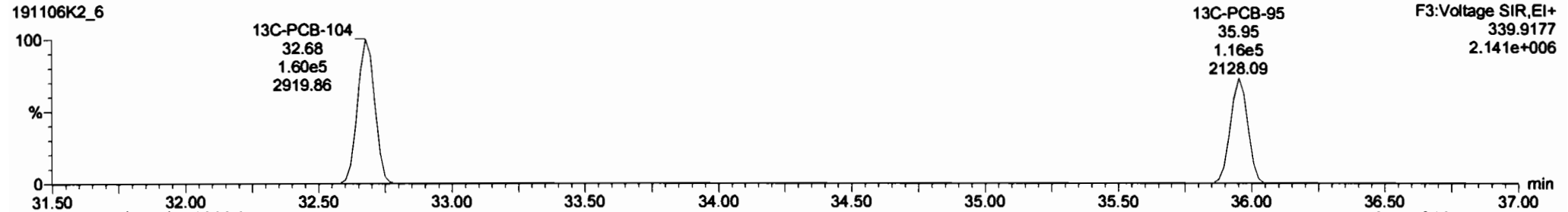
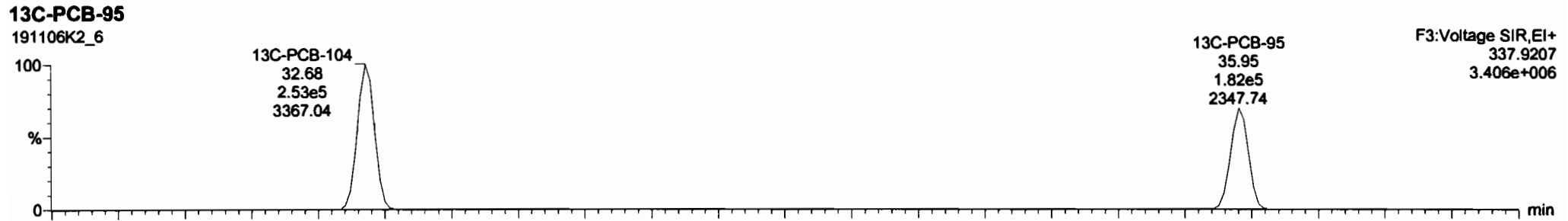
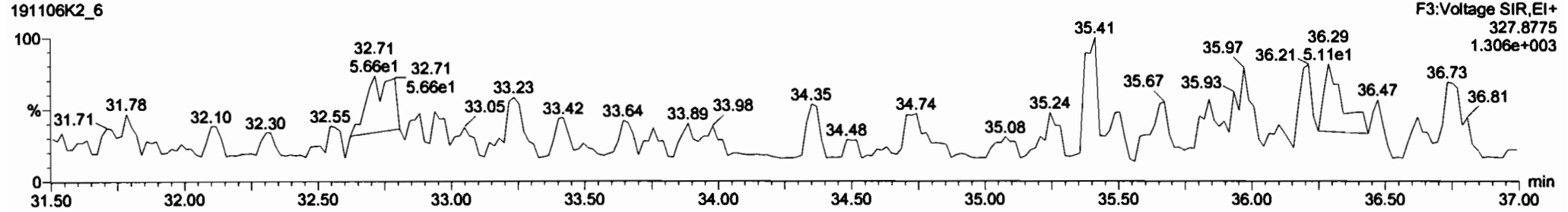
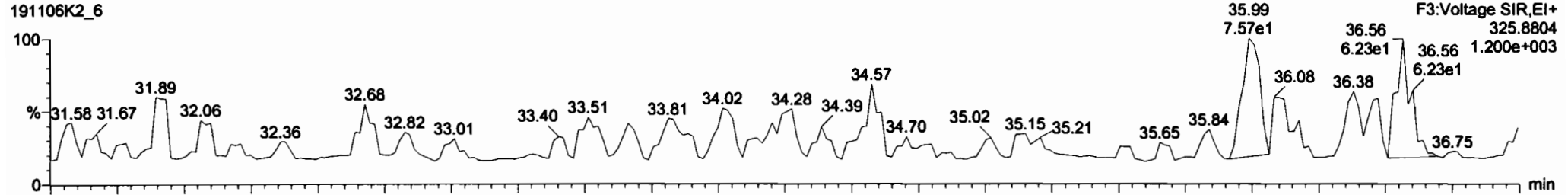


Dataset: Untitled

Last Altered: Thursday, November 07, 2019 12:25:35 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:28:48 Pacific Standard Time

Name: 191106K2\_6, Date: 07-Nov-2019, Time: 05:24:32, ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

**PCB-96**

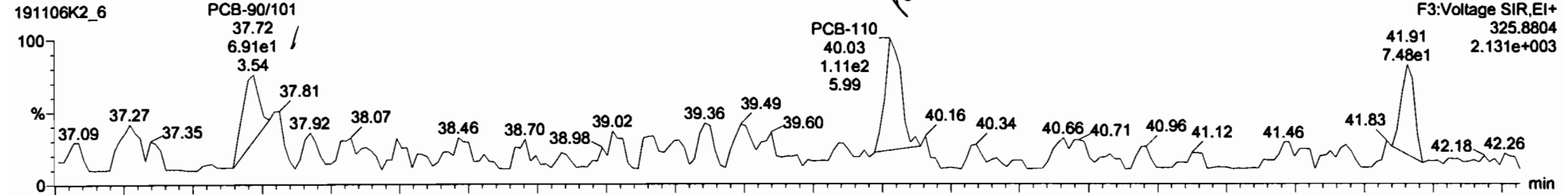


Dataset: Untitled

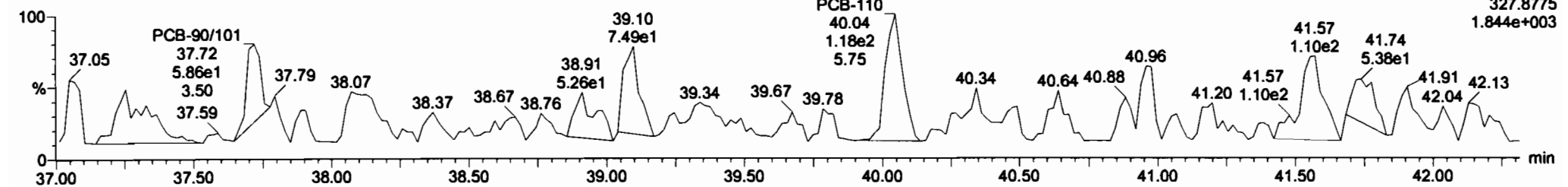
Last Altered: Thursday, November 07, 2019 12:25:35 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:28:48 Pacific Standard Time

Name: 191106K2\_6, Date: 07-Nov-2019, Time: 05:24:32, ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

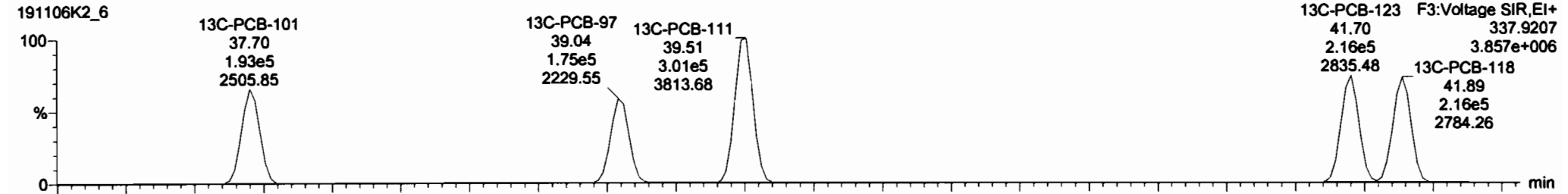
PCB-119



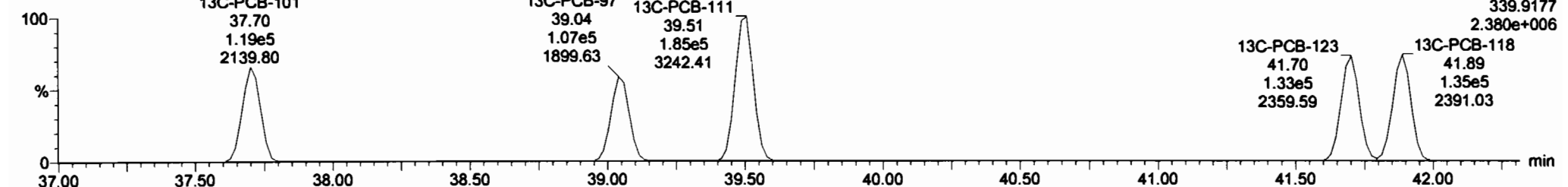
191106K2\_6



13C-PCB-111

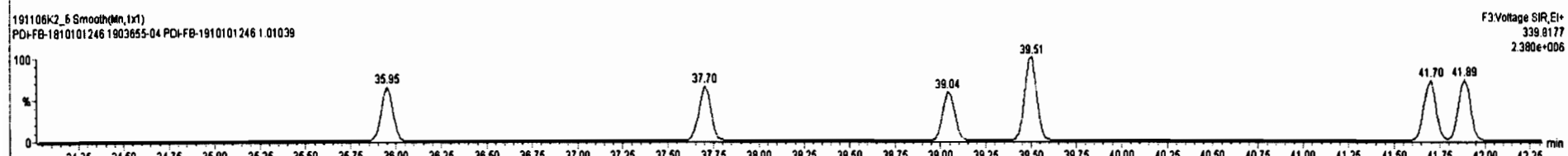
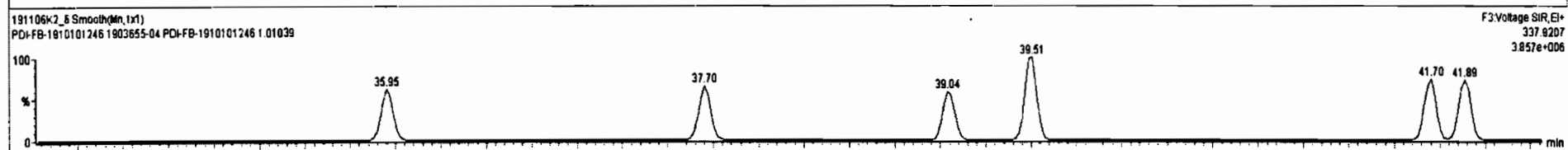
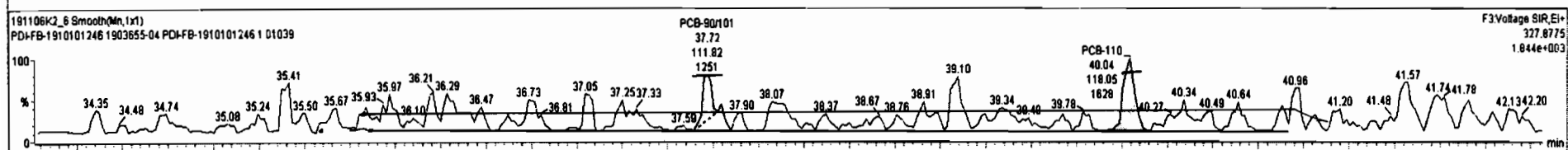
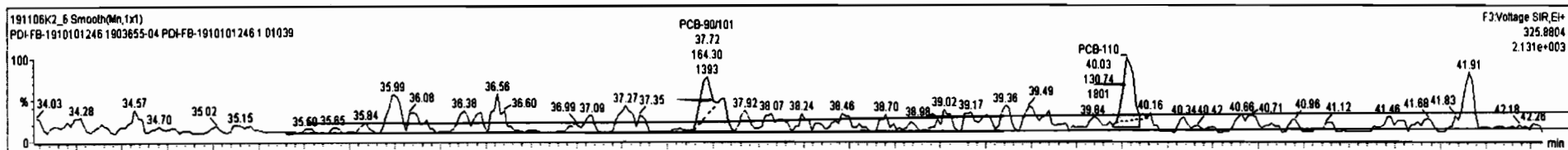


191106K2\_6



#	Name	Resp	RA	nly	RRT	wVal	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0122	1.010	0.00	0.000			NO	1.465		0.989	1.465
225	225 Total Di-PCBs				1.0592	1.010	0.00	0.000			NO	0.0000		10.6	7.603
226	226 2nd Function Tri-PCBs				0.9137	1.010	0.00	0.000			NO	3.929		2.58	5.068
227	227 3rd Function Tri-PCBs				1.0583	1.010	0.00	0.000			NO	0.9737		6.61	2.963
228	228 Total Tetra-PCBs				0.9981	1.010	0.00	0.000			NO	42.29		15.7	46.95
228	228 3rd Function Penta-PCBs				1.1154	1.010	0.00	0.000			NO	1.867		14.5	2.079
230	230 4th Function Penta-PCBs				1.1112	1.010	0.00	0.000			NO				2.69

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Prec)	RA	nly	EMPC	Conc.
1	75 PCB-90/101	37.72	37.72	1.843e2	1.118e2	1.580	1.47	NO	1.8570	1.8570
2	87 PCB-110	40.04	40.03	1.307e2	1.180e2	1.580	1.11	YES	1.0152	0.00000

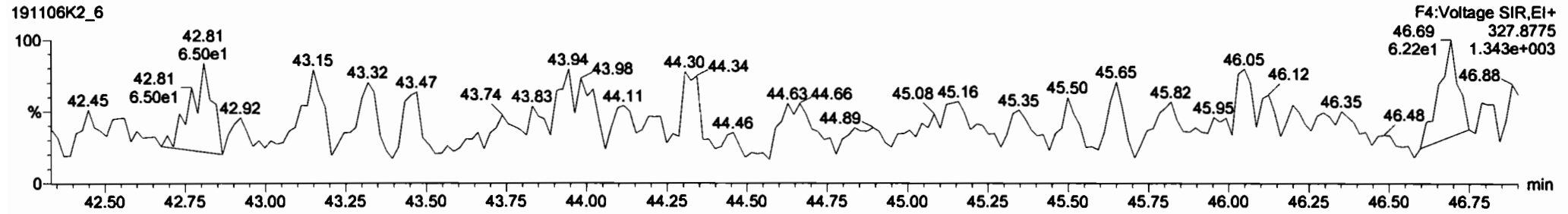
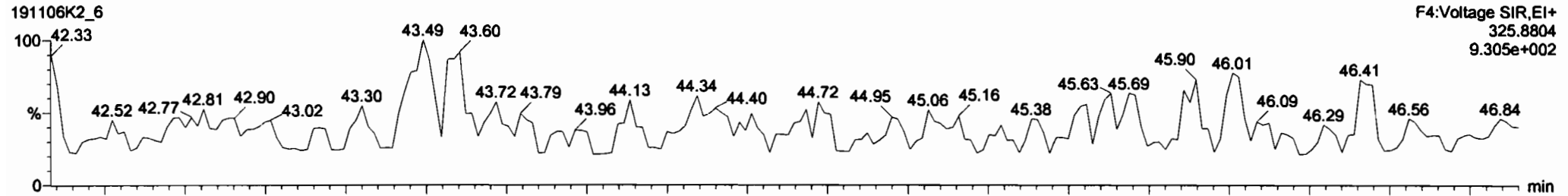


Dataset: Untitled

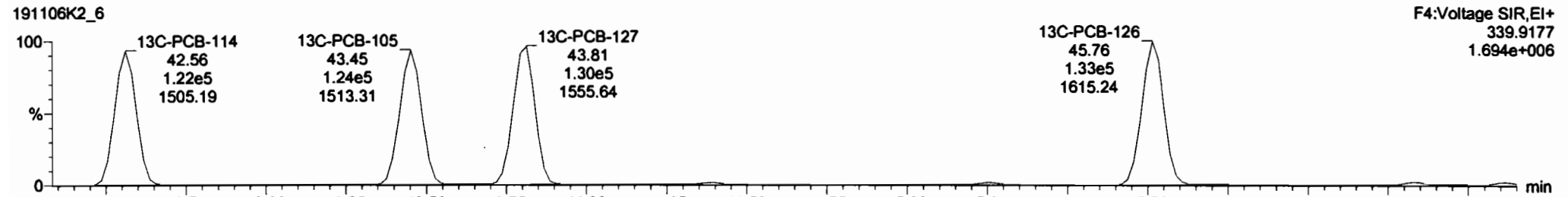
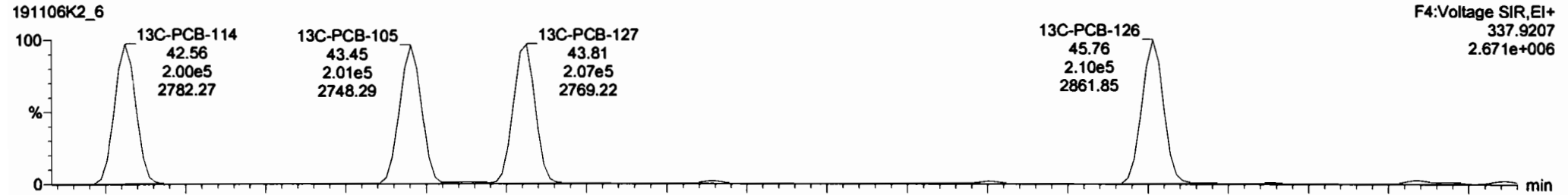
Last Altered: Thursday, November 07, 2019 12:25:35 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:28:48 Pacific Standard Time

Name: 191106K2\_6, Date: 07-Nov-2019, Time: 05:24:32, ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

PCB-114



13C-PCB-114



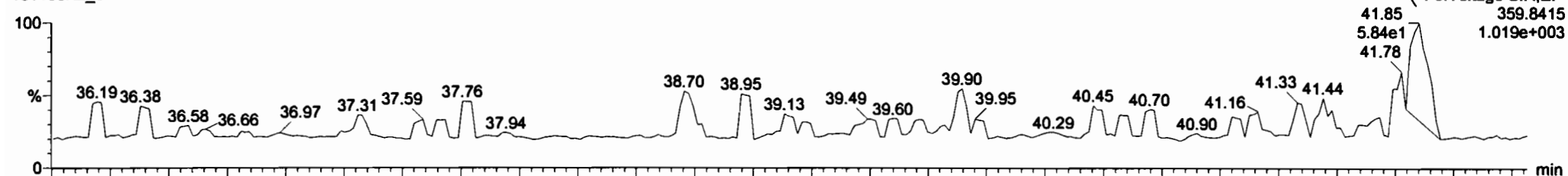
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Last Altered: Thursday, November 07, 2019 12:25:35 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:28:48 Pacific Standard Time

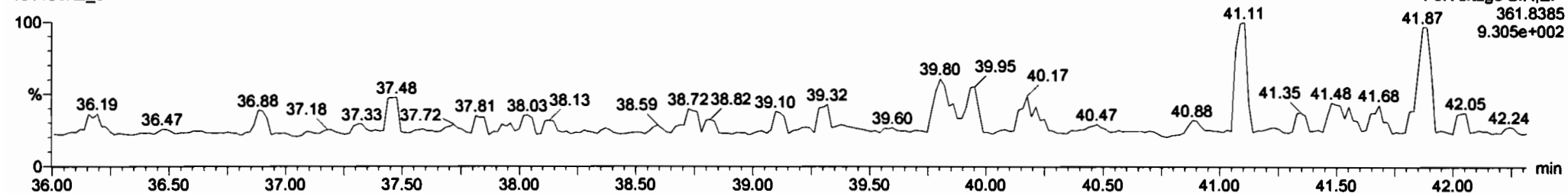
Name: 191106K2\_6, Date: 07-Nov-2019, Time: 05:24:32, ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

PCB-155

191106K2\_6

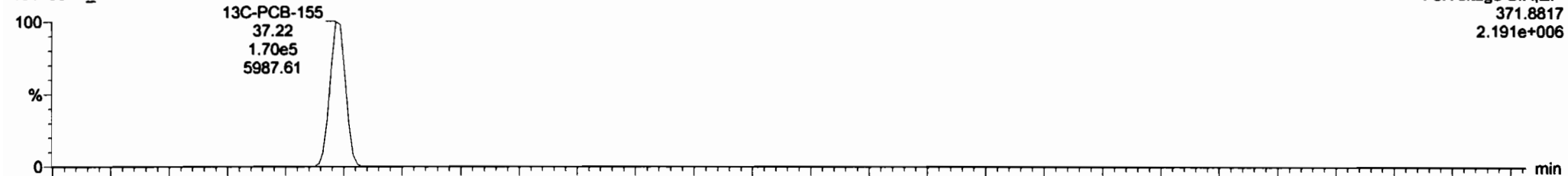


191106K2\_6

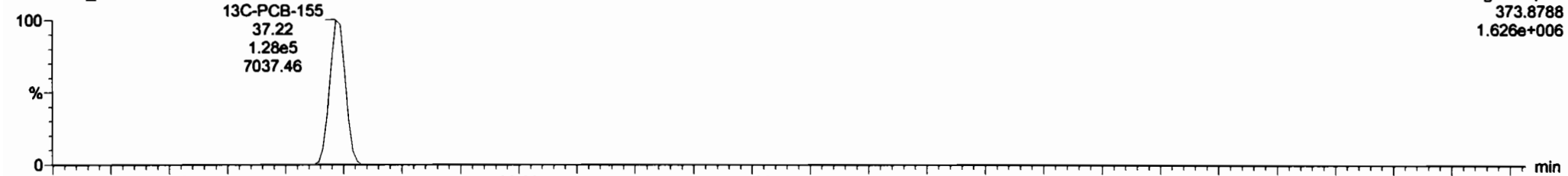


13C-PCB-155

191106K2\_6



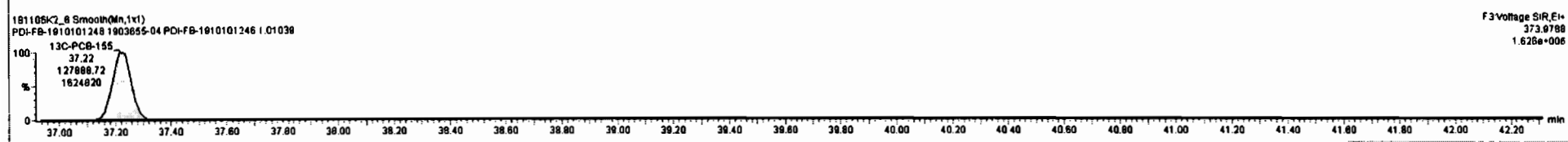
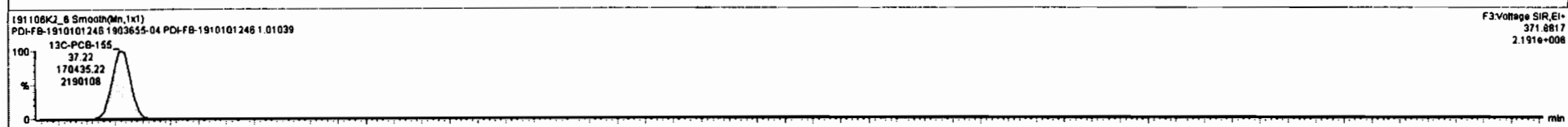
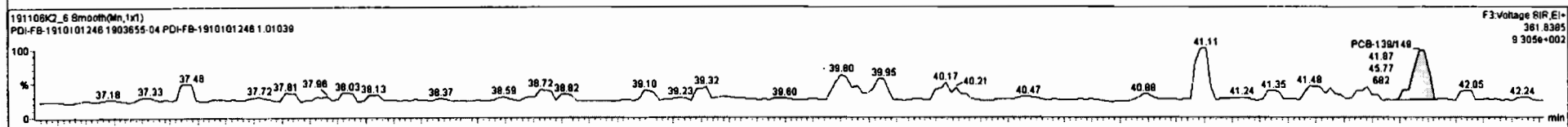
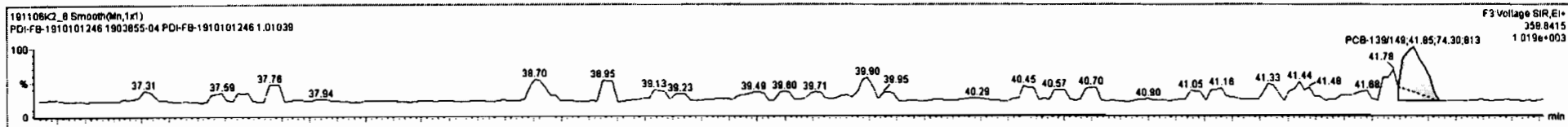
191106K2\_6





#	Name	Resp	RA	inj	RRF	wUnd	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	Total Mono-PCBs				1.0122	1.010	0.00	0.000		NO		1.485		0.989	1.485
226	Total Di-PCBs				1.0582	1.010	0.00	0.000		NO		0.0000		10.6	7.803
228	2nd Function Tri-PCBs				0.8137	1.010	0.00	0.000		NO		3.928		2.58	5.088
227	3rd Function Tri-PCBs				1.0583	1.010	0.00	0.000		NO		0.9737		6.81	2.963
228	Total Tetra-PCBs				0.9861	1.010	0.00	0.000		NO		42.28		15.7	48.95
229	3rd Function Penta-PCBs				1.1154	1.010	0.00	0.000		NO		1.857		14.5	2.872
230	4th Function Penta-PCBs				1.1112	1.010	0.00	0.000		NO				2.88	

#	Name	Pred.RT	RT	inj Resp	inj Resp	1* Ratio (Pred)	RA	inj	EMPC	Conc.
100	PCB-139/148	41.83	41.85	7.430e1	4.577e1	1.240	1.82	YES	0.92148	0.00000



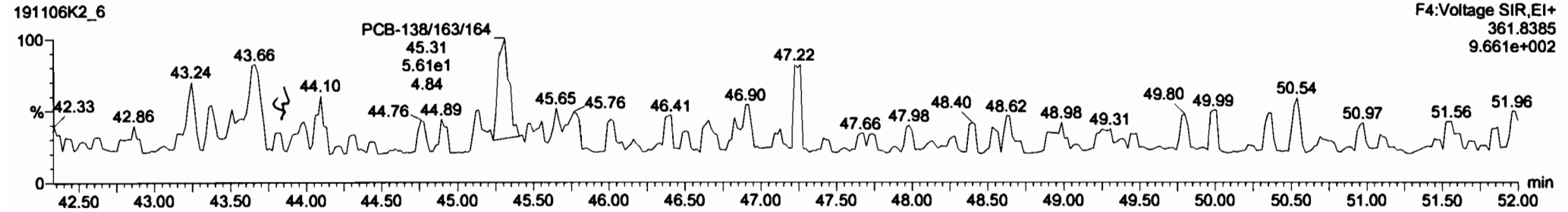
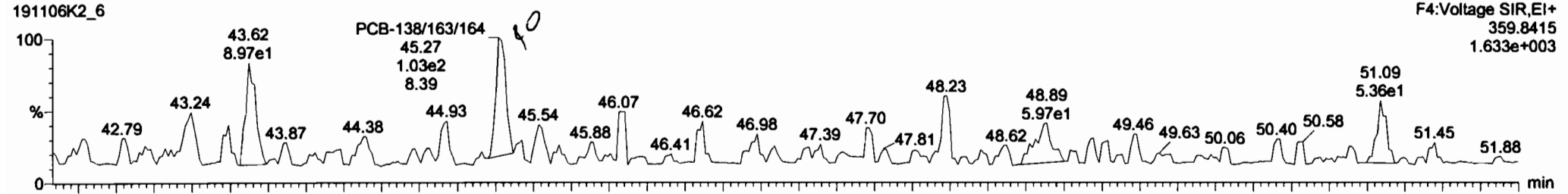


Dataset: Untitled

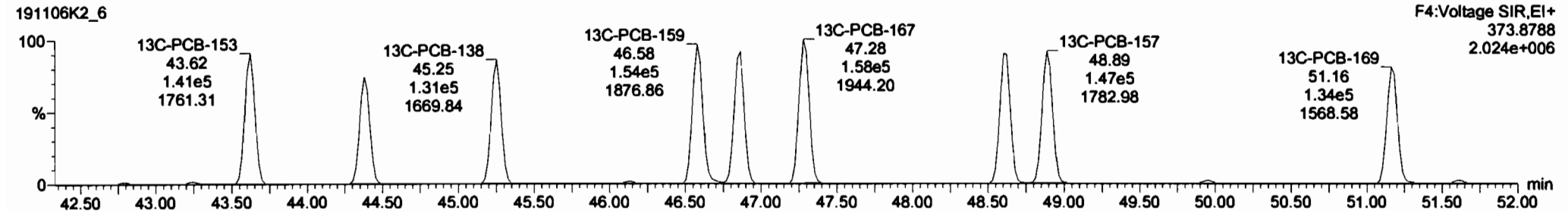
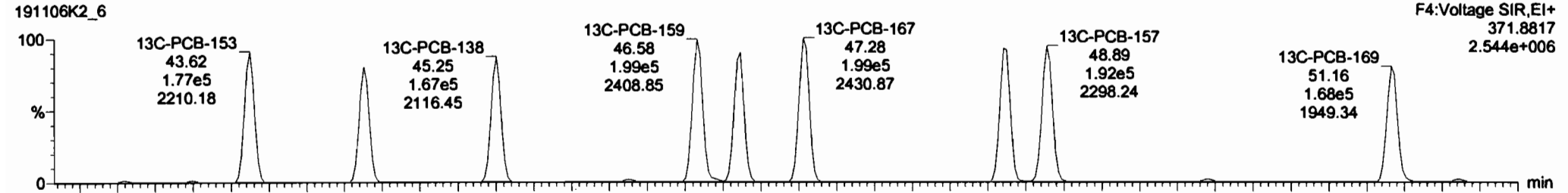
Last Altered: Thursday, November 07, 2019 12:25:35 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:28:48 Pacific Standard Time

Name: 191106K2\_6, Date: 07-Nov-2019, Time: 05:24:32, ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

PCB-134/143

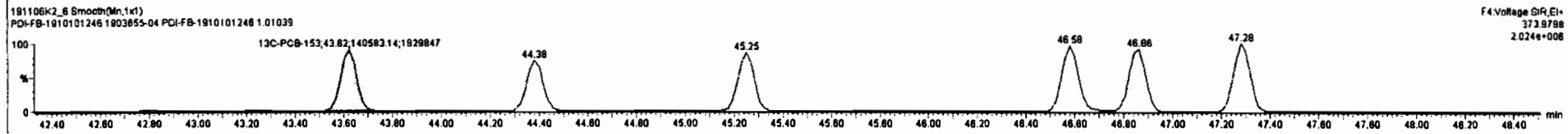
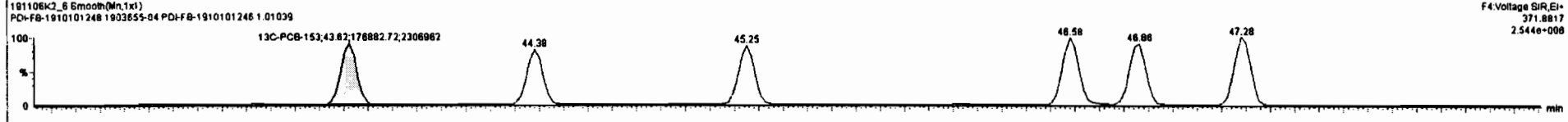
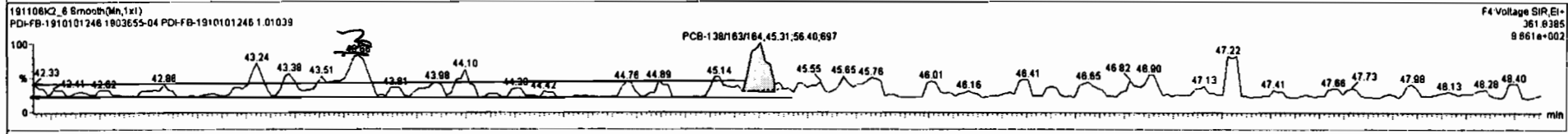
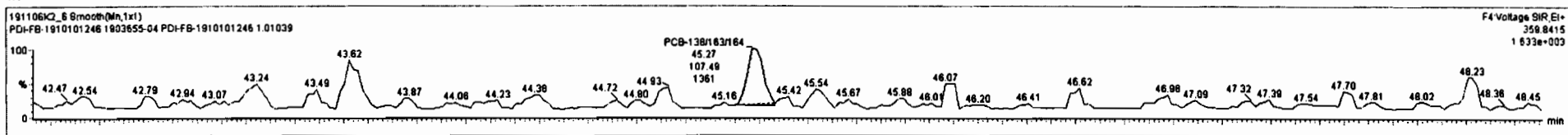


13C-PCB-153



#	Name	Resp	RA	n/y	RRF	VolAdj	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	4th Function Hepta-PCBs				0.8718	1.910	0.00		0.000		NO	0.0000		0.19	0.8830
233	Total Hepta-PCBs				1.2636	1.010	0.00		0.000		NO			5.48	
234	4th Function Octa-PCBs				0.8883	1.010	0.00		0.000		NO			2.03	
235	5th Function Octa-PCBs				1.1987	1.010	0.00		0.000		NO			0.851	
236	Total Nona-PCBs				0.9446	1.010	0.00		0.000		NO			0.418	
237	Deca-CB				0.9428	1.010	0.00		0.000		NO			0.165	
238	Total PCBs														

#	Name	Pred.RT	RT	nt Resp	st Resp	1% Ratio (Pred)	RA	n/y	EMPC	Conc.
121	PCB-138/163/164	45.28	45.27	1.075e2	5.840e1	1.240	1.91	YES	0.8830	0.00000



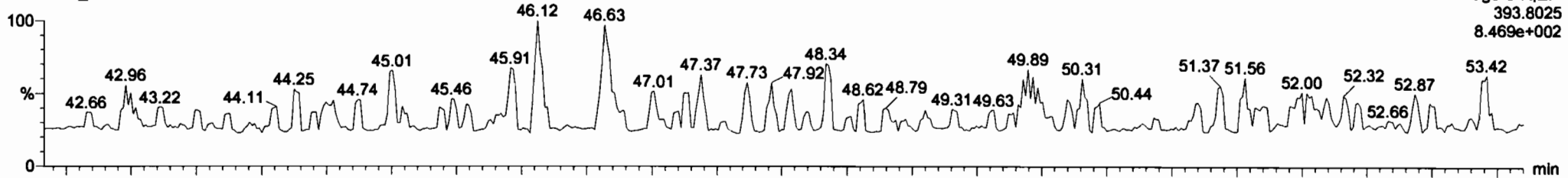
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Printed: Thursday, November 07, 2019 12:28:48 Pacific Standard Time

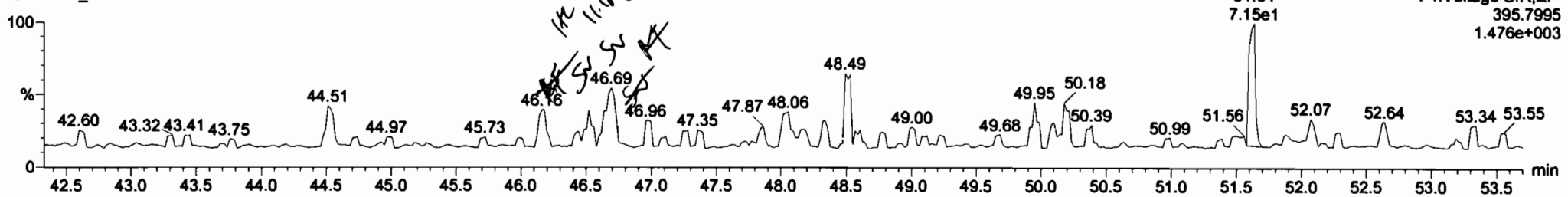
Name: 191106K2\_6, Date: 07-Nov-2019, Time: 05:24:32, ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

PCB-188

191106K2\_6

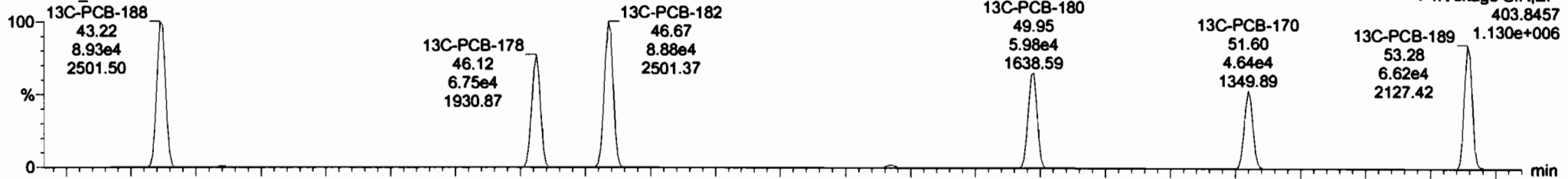


191106K2\_6

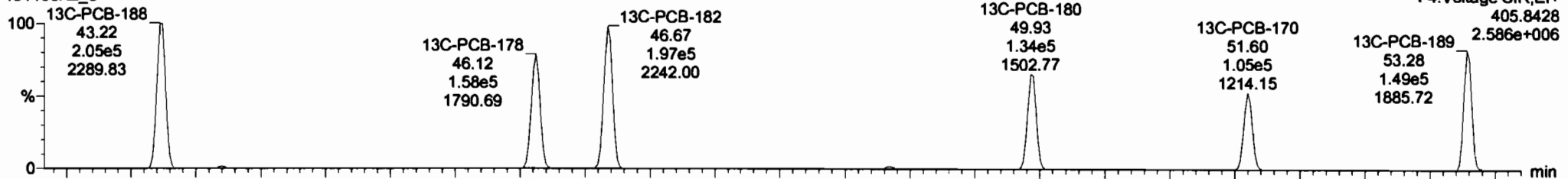


13C-PCB-188

191106K2\_6



191106K2\_6



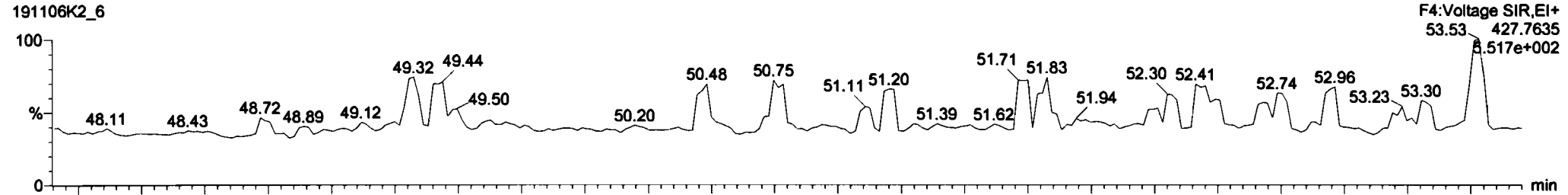
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Last Altered: Thursday, November 07, 2019 12:25:35 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:28:48 Pacific Standard Time

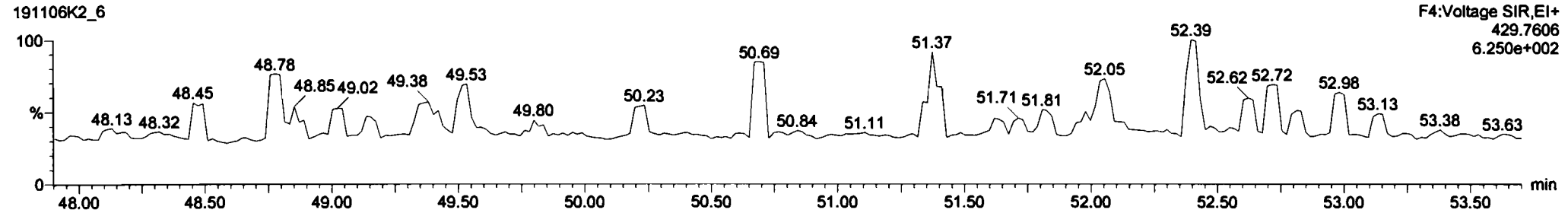
Name: 191106K2\_6, Date: 07-Nov-2019, Time: 05:24:32, ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

**PCB-202**

191106K2\_6

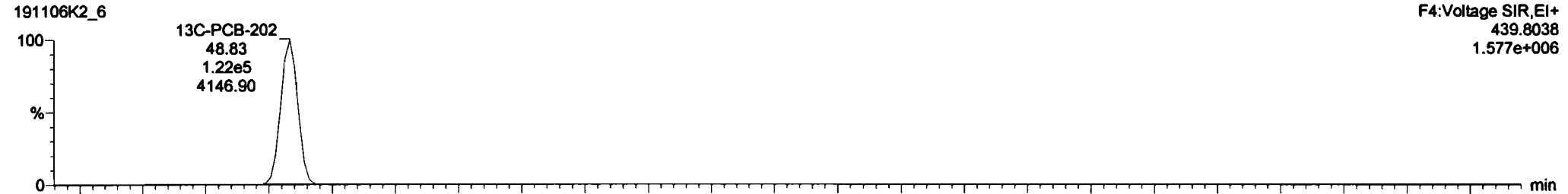


191106K2\_6

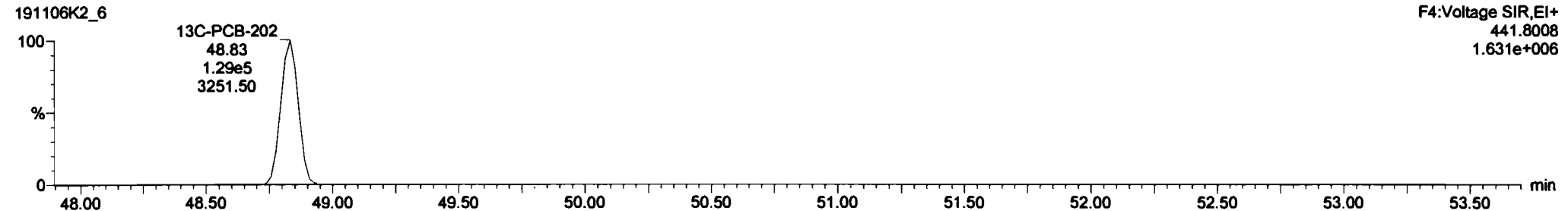


**13C-PCB-202**

191106K2\_6



191106K2\_6

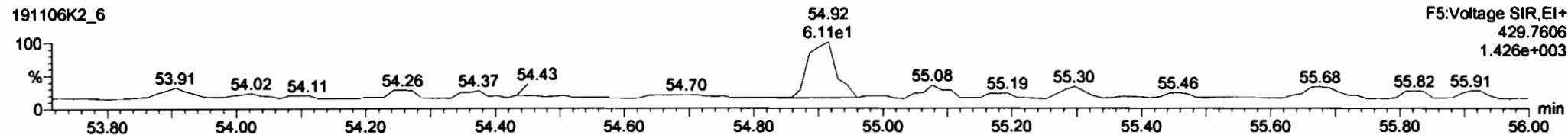
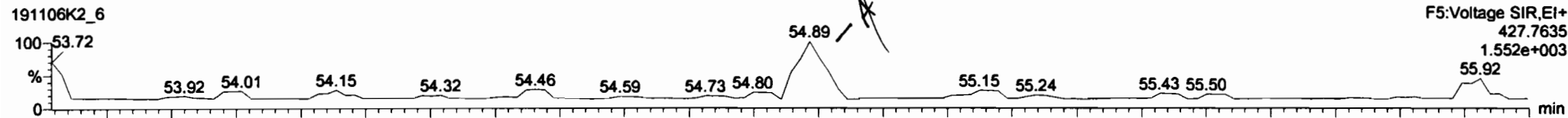


Dataset: Untitled

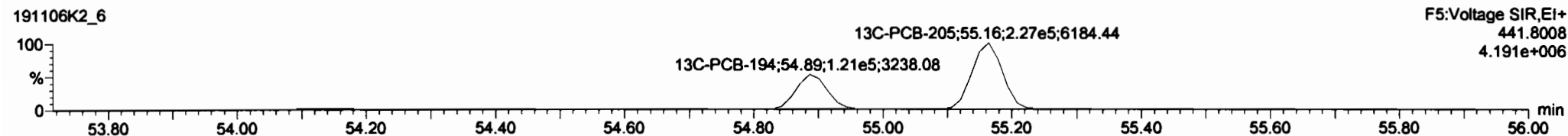
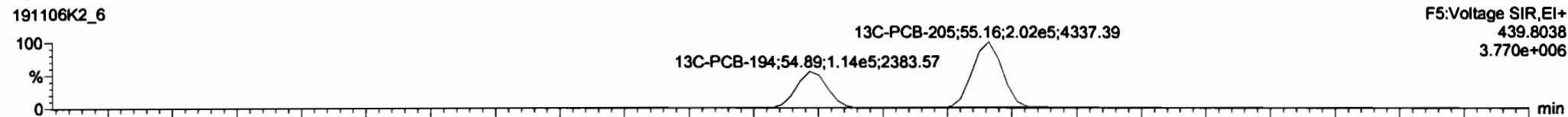
Last Altered: Thursday, November 07, 2019 12:25:35 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:28:48 Pacific Standard Time

Name: 191106K2\_6, Date: 07-Nov-2019, Time: 05:24:32, ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

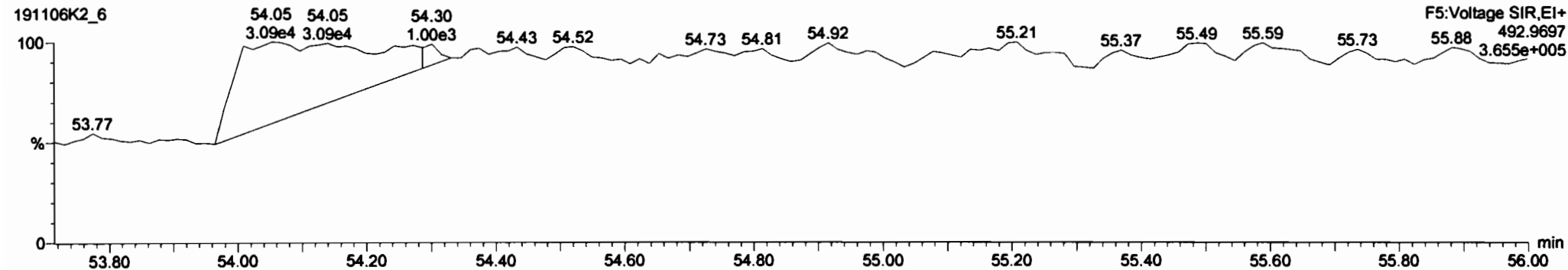
**PCB-195**



**13C-PCB-194**

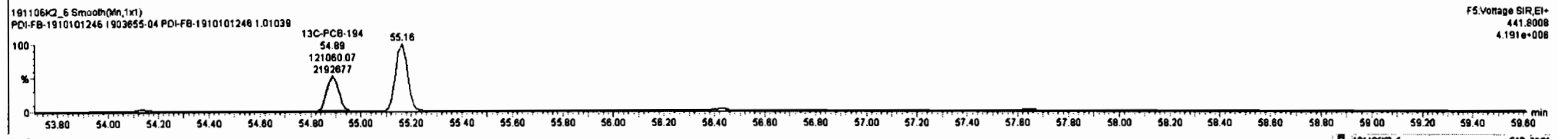
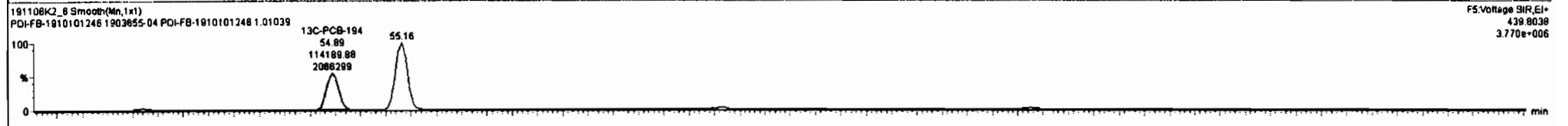
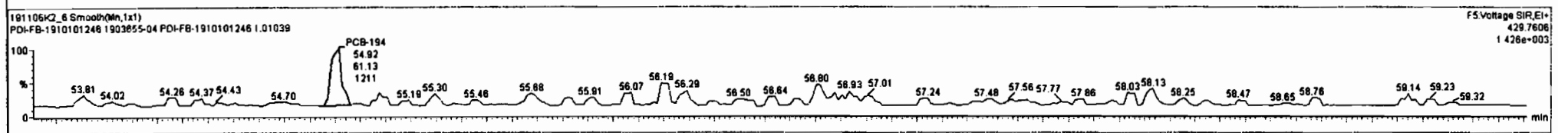
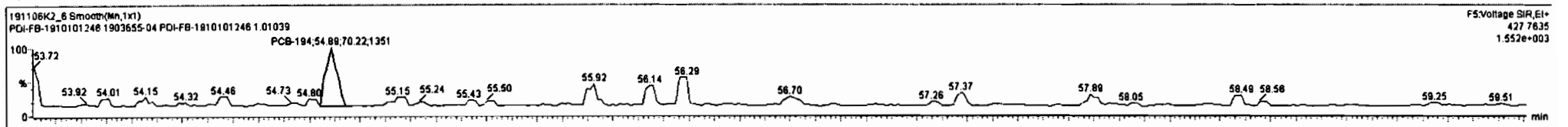


**PFK5**



#	Name	Resp	RA	rvy	RP	wArd	Prod.RT	RT	Prod.R.	RRT	RRT Fal	Comp.	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				0.9719	1.010	0.00		0.000		NO	0.0000		8.13	0.6836
233	233 Total Hepta-PCBs				1.2636	1.010	0.00		0.000		NO			5.48	
234	234 4th Function Octa-PCBs				0.8663	1.010	0.00		0.000		NO	0.0000		2.03	
235	235 5th Function Octa-PCBs				1.3887	1.010	0.00		0.000		NO	0.0000		8.728	0.8410
236	236 Total Nona-PCBs				0.9446	1.010	0.00		0.000		NO			0.418	
237	237 Deca-CB				0.9426	1.010	0.00		0.000		NO			0.165	
238	238 Total PCBs														

#	Name	Prod.RT	RT	ret Resp	int Resp	1* Ratio (Prod)	RA	rvy	EMPC	Comp.
1	163 PCB-194	54.80	54.89	7.022e1	6.113e1	0.880	1.15	YES	0.84098	0.00000



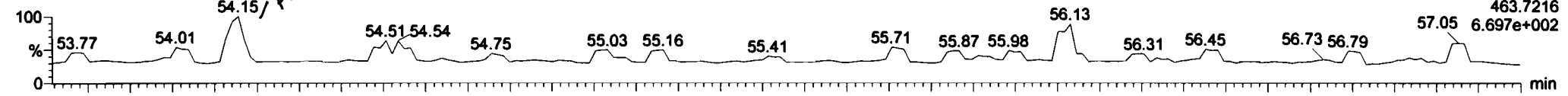
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Last Altered: Thursday, November 07, 2019 12:25:35 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:28:48 Pacific Standard Time

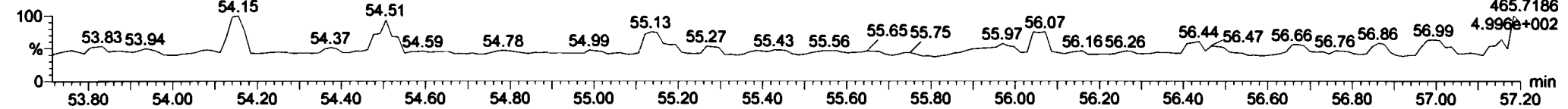
Name: 191106K2\_6, Date: 07-Nov-2019, Time: 05:24:32, ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

**PCB-208**

191106K2\_6

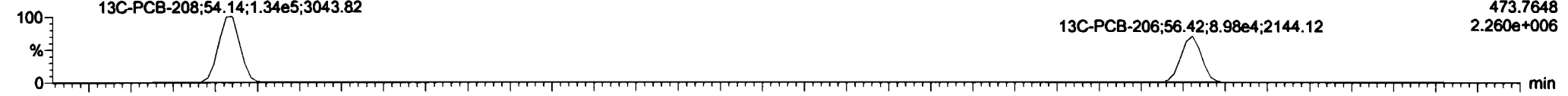


191106K2\_6

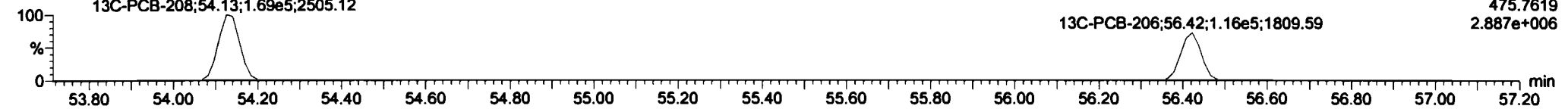


**13C-PCB-208**

191106K2\_6

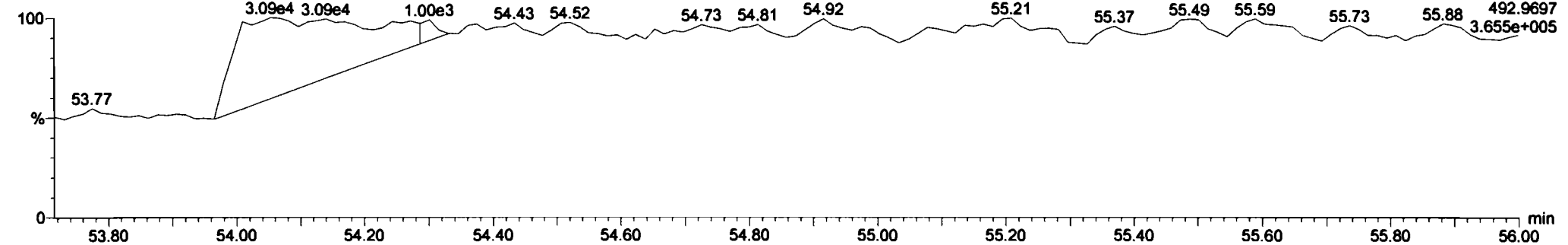


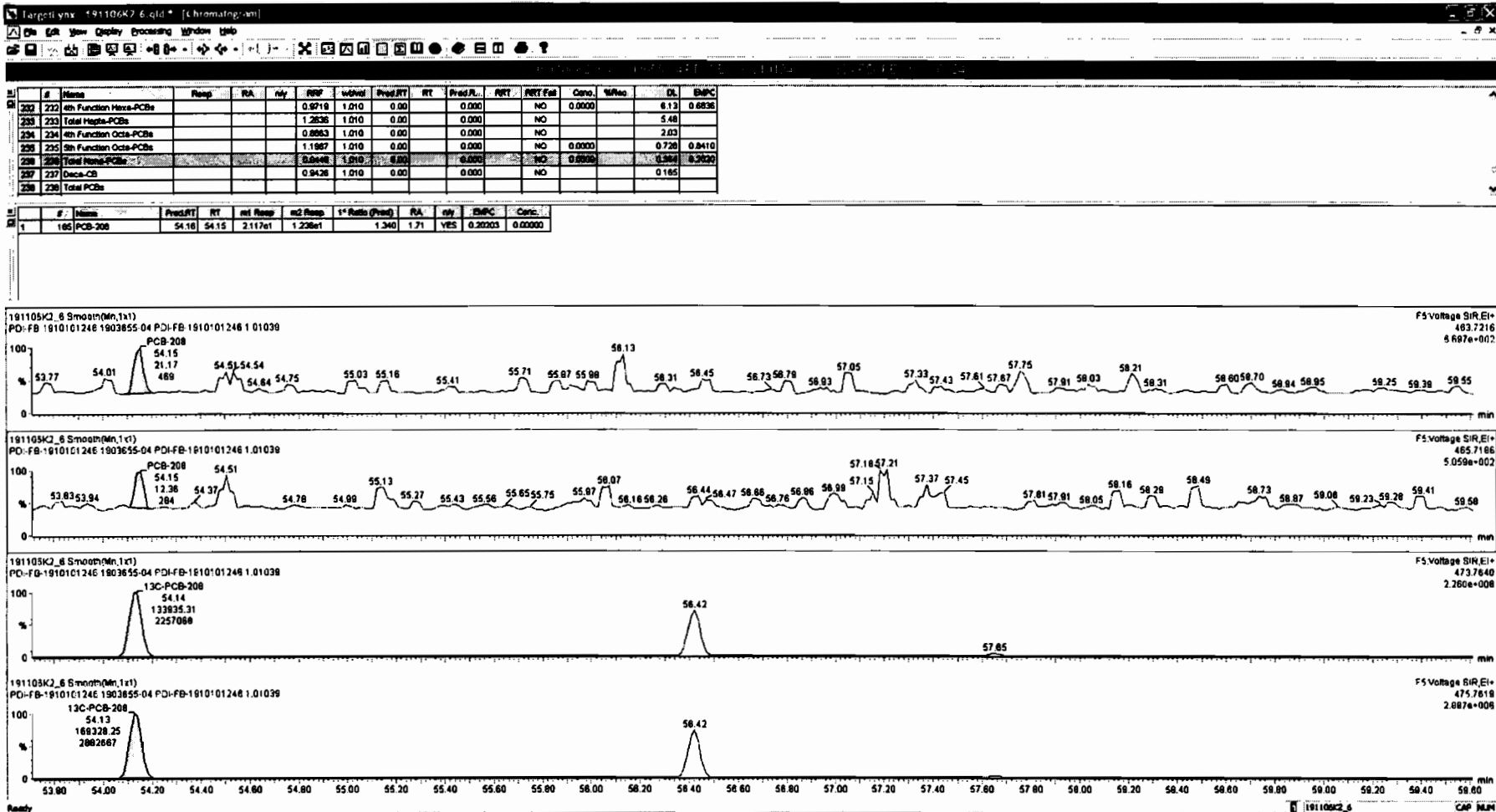
191106K2\_6



**PFK5**

191106K2\_6





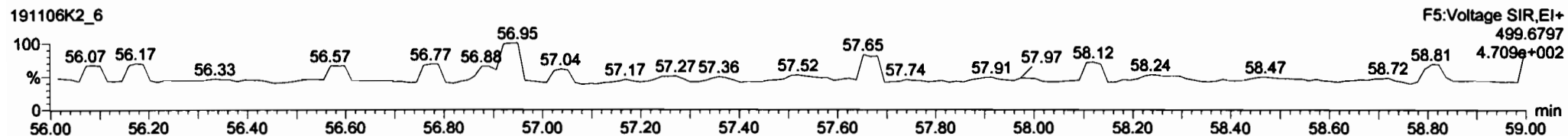
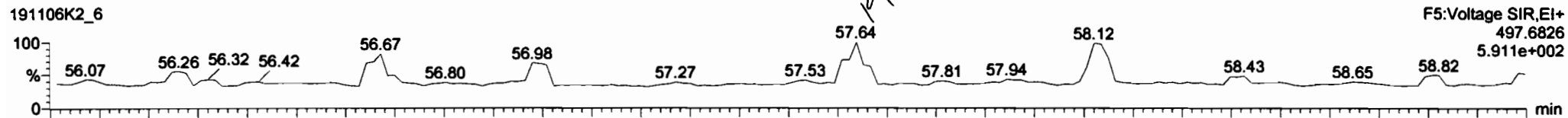


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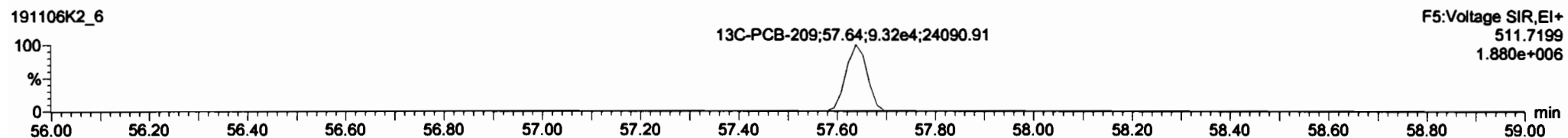
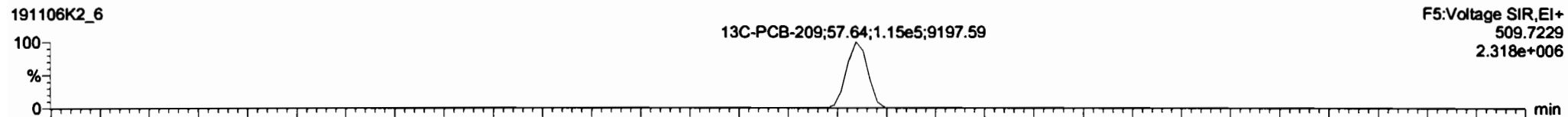
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Printed: Thursday, November 07, 2019 12:28:48 Pacific Standard Time

Name: 191106K2\_6, Date: 07-Nov-2019, Time: 05:24:32, ID: 1903655-04 PDI-FB-1910101246 1.01039, Description: PDI-FB-1910101246

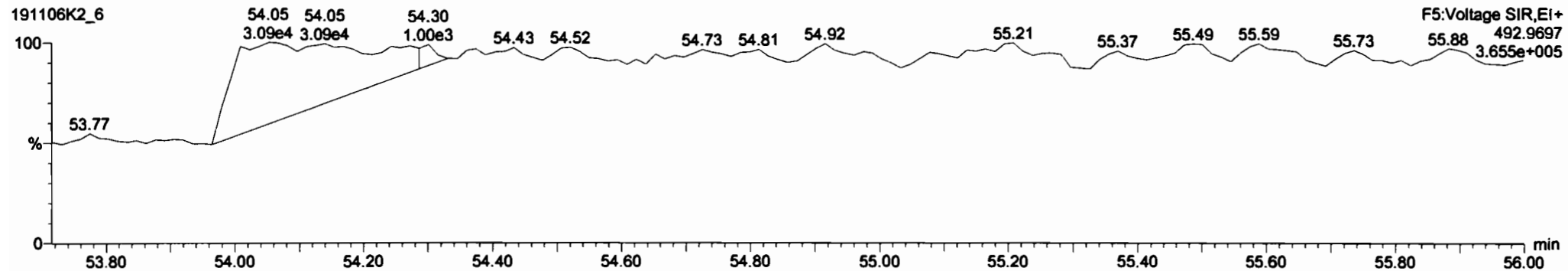
**PCB-209**

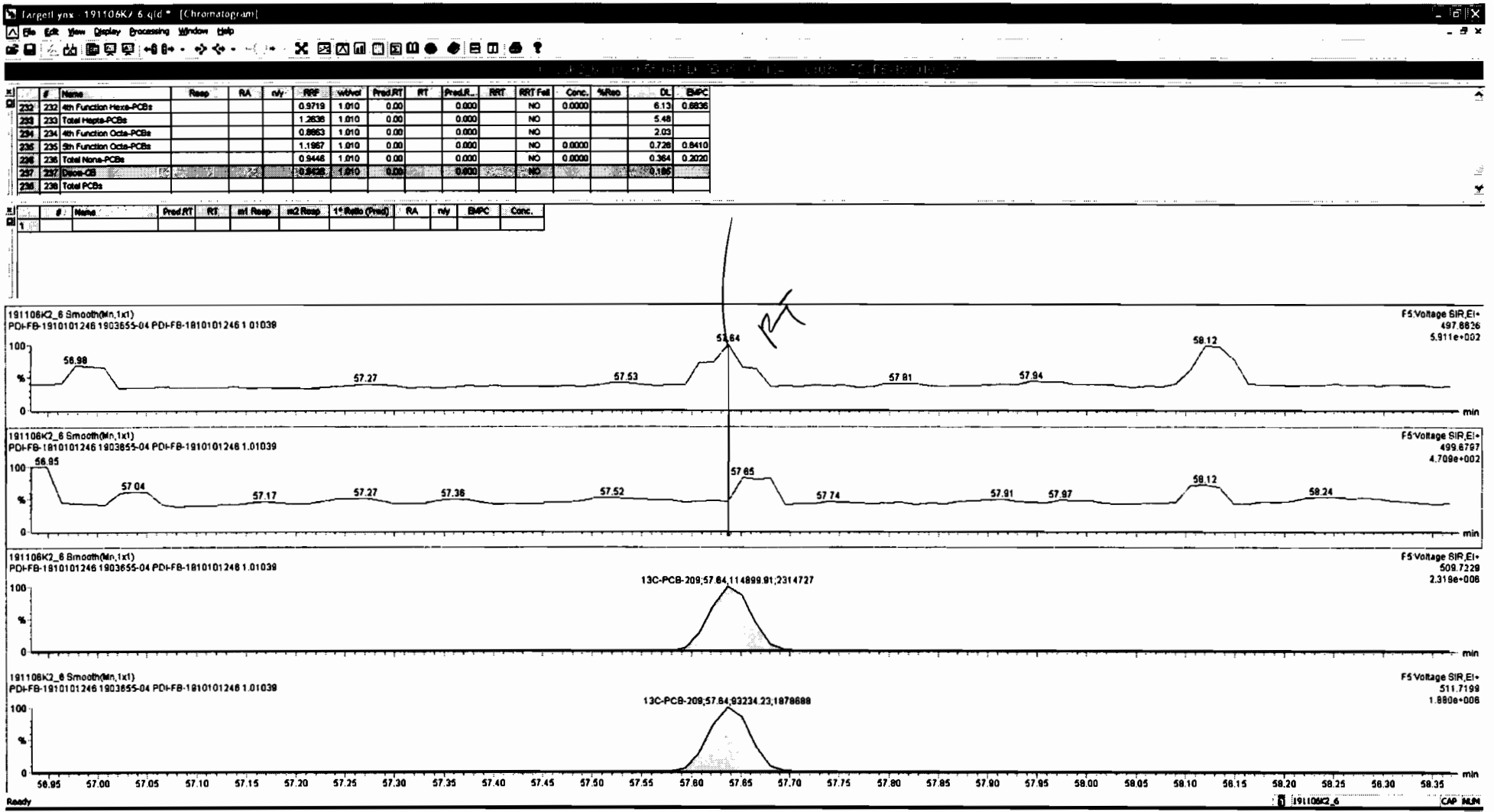


**13C-PCB-209**



**PFK5**





Dataset: U:\VG11.PRO\Results\191106K2\191106K2-7.qld

Last Altered: Sunday, November 10, 2019 15:08:38 Pacific Standard Time

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*HL 11.10.19*

*07/01/07/2020*

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-04-19.mdb 05 Nov 2019 14:32:48

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191106K2\_7, Date: 07-Nov-2019, Time: 06:26:36, ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	4.13e2	2.09	YES	1.02	1.005	15.69	15.68	1.001	1.000	NO	1.186		0.208	1.014
2	2 PCB-2			NO	1.01	1.005	18.12		0.988		YES			0.202	
3	3 PCB-3	2.84e2	2.23	YES	1.01	1.005	18.35	18.36	1.001	1.001	NO	0.7871		0.203	0.6441
4	4 PCB-4/10			NO	1.28	1.005	19.78		1.004		YES			1.31	
5	5 PCB-7/9			NO	0.976	1.005	21.60		1.003		YES			1.22	
6	6 PCB-6			NO	1.02	1.005	22.26		1.033		YES			1.18	
7	7 PCB-5/8			NO	1.01	1.005	22.67		1.052		YES			1.18	
8	8 PCB-14			NO	1.03	1.005	23.81		0.952		YES			1.12	
9	9 PCB-11	2.39e3	1.38	NO	1.10	1.005	25.04	25.04	1.001	1.001	NO	5.984		0.164	5.984
10	10 PCB-12/13			NO	1.04	1.005	25.47		1.018		YES			1.12	
11	11 PCB-15			NO	1.03	1.005	25.77		1.030		YES			1.13	
12	12 PCB-19			NO	0.934	1.005	24.00		1.001		YES			0.383	
13	13 PCB-30			NO	1.48	1.005	24.92		1.040		YES			0.242	
14	14 PCB-18	4.14e2	1.18	NO	0.693	1.005	25.66	25.69	0.951	0.953	NO	1.597		0.376	1.597
15	15 PCB-17	1.88e2	0.65	YES	0.667	1.005	25.84	25.88	0.958	0.960	NO	0.7543		0.381	0.5832
16	16 PCB-24/27			NO	0.915	1.005	26.46		0.981		YES			0.285	
17	17 PCB-16/32	4.01e2	1.41	YES	0.792	1.005	26.99	26.98	1.001	1.000	NO	1.386		0.229	1.149
18	18 PCB-34			NO	0.987	1.005	27.80		0.959		YES			0.352	
19	19 PCB-23			NO	0.974	1.005	27.90		0.962		YES			0.357	
20	20 PCB-29			NO	0.953	1.005	28.13		0.970		YES			0.364	
21	21 PCB-26	1.36e2	0.76	YES	1.00	1.005	28.38	28.36	0.979	0.978	NO	0.4411		0.347	0.3723
22	22 PCB-25			NO	0.978	1.005	28.53		0.984		YES			0.355	
23	23 PCB-31	3.89e2	0.85	YES	1.12	1.005	28.92	28.90	0.998	0.997	NO	1.125		0.389	1.016
24	24 PCB-28	3.53e2	1.46	YES	1.11	1.005	29.01	29.01	1.001	1.001	NO	1.087		0.314	0.8610
25	25 PCB-20/21/33	3.27e2	1.01	NO	1.00	1.005	29.65	29.66	1.023	1.023	NO	1.058		0.346	1.058
26	26 PCB-22	3.04e2	2.03	YES	1.03	1.005	30.14	30.09	1.039	1.038	NO	0.9574		0.286	0.6447
27	27 PCB-36			NO	1.18	1.005	30.70		0.930		YES			0.281	
28	28 PCB-39			NO	1.08	1.005	31.19		0.945		YES			0.305	
29	29 PCB-38			NO	1.13	1.005	32.00		0.970		YES			0.293	
30	30 PCB-35			NO	1.13	1.005	32.55		0.987		YES			0.292	
31	31 PCB-37			NO	1.11	1.005	33.03		1.001		YES			0.299	
32	32 PCB-54			NO	0.996	1.005	27.84		1.001		YES			0.328	

Dataset: U:\VG11.PRO\Results\191106K2\191106K2-7.qld

Last Altered: Sunday, November 10, 2019 15:08:38 Pacific Standard Time  
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Name: 191106K2\_7, Date: 07-Nov-2019, Time: 06:26:36, ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50			NO	0.781	1.005	29.08		1.045		YES			0.419	
34	34 PCB-53			NO	0.955	1.005	29.71		0.943		YES			0.437	
35	35 PCB-51			NO	1.02	1.005	30.06		0.955		YES			0.407	
36	36 PCB-45			NO	0.808	1.005	30.49		0.969		YES			0.516	
37	37 PCB-46			NO	0.754	1.005	31.01		0.985		YES			0.553	
38	38 PCB-52/69	2.92e2	0.62	YES	1.09	1.005	31.52	31.54	1.001	1.002	NO	1.089		0.382	0.9555
39	39 PCB-73			NO	1.29	1.005	31.65		1.005		YES			0.323	
40	40 PCB-43/49	1.58e2	0.62	YES	0.940	1.005	31.81	31.82	1.010	1.011	NO	0.6848		0.444	0.6032
41	41 PCB-47	5.28e2	0.57	YES	0.869	1.005	32.03	32.02	1.001	1.001	NO	2.264		0.446	1.883
42	42 PCB-48/75			NO	1.02	1.005	32.14		1.004		YES			0.378	
43	43 PCB-65			NO	1.11	1.005	32.41		1.013		YES			0.349	
44	44 PCB-62			NO	1.07	1.005	32.52		1.016		YES			0.364	
45	45 PCB-44	2.24e2	0.70	NO	0.761	1.005	32.86	32.83	1.027	1.026	NO	1.097 OK		0.509	1.097
46	46 PCB-42/59	8.76e1	0.74	NO	0.960	1.005	33.08	33.08	1.033	1.034	NO	0.3402		0.404	0.3402
47	47 PCB-41/64/71/72	2.98e2	1.16	YES	1.08	1.005	33.70	33.70	1.053	1.053	NO	1.027		0.258	0.8407
48	48 PCB-68			NO	1.11	1.005	33.99		1.062		YES			0.349	
49	49 PCB-40			NO	0.577	1.005	34.21		1.069		YES			0.672	
50	50 PCB-57			NO	1.05	1.005	34.52		0.969		YES			0.351	
51	51 PCB-67			NO	0.993	1.005	34.84		0.978		YES			0.370	
52	52 PCB-58			NO	1.11	1.005	34.97		0.981		YES			0.331	
53	53 PCB-63			NO	0.962	1.005	35.12		0.986		YES			0.382	
54	54 PCB-74	2.31e2	0.44	YES	1.07	1.005	35.43	35.45	0.994	0.995	NO	0.7254		0.345	0.5082
55	55 PCB-61/70	3.64e2	1.37	YES	0.986	1.005	35.65	35.67	1.000	1.001	NO	1.229		0.373	0.9232
56	56 PCB-76/66	3.30e2	0.67	NO	1.07	1.005	35.81	35.88	1.005	1.007	NO	1.036		0.345	1.036
57	57 PCB-80			NO	1.08	1.005	36.10		1.001		YES			0.317	
58	58 PCB-55			NO	1.07	1.005	36.42		1.010		YES			0.322	
59	59 PCB-56/60	1.85e2	1.27	YES	0.934	1.005	36.96	36.90	1.024	1.023	NO	0.6885		0.368	0.5135
60	60 PCB-79			NO	1.04	1.005	38.06		1.055		YES			0.329	
61	61 PCB-78			NO	1.03	1.005	38.76		0.987		YES			0.390	
62	62 PCB-81			NO	0.933	1.005	39.30		1.000		YES			0.432	
63	63 PCB-77			NO	1.03	1.005	39.92		1.000		YES			0.396	
64	64 PCB-104			NO	0.995	1.005	32.70		1.001		YES			0.297	
65	65 PCB-96			NO	0.996	1.005	34.02		1.041		YES			0.296	
66	66 PCB-103			NO	0.774	1.005	34.59		1.059		YES			0.381	
67	67 PCB-100			NO	0.778	1.005	34.97		1.070		YES			0.380	
68	68 PCB-94			NO	0.773	1.005	35.43		0.985		YES			0.536	

Dataset: U:\VG11.PRO\Results\191106K2\191106K2-7.qld

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Name: 191106K2\_7, Date: 07-Nov-2019, Time: 06:26:36, ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPG
69	69 PCB-95/98/102			NO	1.01	1.005	35.90		0.999		YES			0.408	
70	70 PCB-93			NO	0.841	1.005	36.03		1.002		YES			0.493	
71	71 PCB-88/91	1.11e2	0.88	YES	0.890	1.005	36.38	36.38	1.012	1.012	NO	0.5907		0.466	0.4462
72	72 PCB-121			NO	1.39	1.005	36.50		1.015		YES			0.299	
73	73 PCB-84/92			NO	0.879	1.005	37.33		0.990		YES			0.515	
74	74 PCB-89			NO	0.959	1.005	37.51		0.995		YES			0.471	
75	75 PCB-90/101	2.35e2	1.08	YES	0.944	1.005	37.72	37.76	1.000	1.001	NO	1.266		0.479	1.070
76	76 PCB-113			NO	1.23	1.005	37.97		1.007		YES			0.367	
77	77 PCB-99			NO	1.12	1.005	38.07		1.010		YES			0.404	
78	78 PCB-119			NO	1.47	1.005	38.53		0.987		YES			0.362	
79	79 PCB-108/112			NO	1.25	1.005	38.69		0.991		YES			0.426	
80	80 PCB-83			NO	1.55	1.005	38.84		0.995		YES			0.344	
81	81 PCB-97			NO	1.07	1.005	39.08		1.001		YES			0.495	
82	82 PCB-86			NO	0.996	1.005	39.23		1.005		YES			0.535	
83	83 PCB-87/117/125			NO	1.33	1.005	39.34		1.008		YES			0.399	
84	84 PCB-111/115			NO	1.60	1.005	39.51		1.012		YES			0.332	
85	85 PCB-85/116			NO	1.22	1.005	39.63		1.015		YES			0.438	
86	86 PCB-120			NO	1.68	1.005	39.90		1.022		YES			0.317	
87	87 PCB-110	2.27e2	0.99	YES	1.49	1.005	40.04	40.04	1.026	1.026	NO	0.8961		0.258	0.7334
88	88 PCB-82			NO	0.674	1.005	40.68		0.976		YES			0.607	
89	89 PCB-124			NO	1.16	1.005	41.40		0.993		YES			0.352	
90	90 PCB-107/109			NO	1.17	1.005	41.55		0.996		YES			0.351	
91	91 PCB-123			NO	1.04	1.005	41.72		1.000		YES			0.393	
92	92 PCB-106/118			NO	1.07	1.005	41.92		1.001		YES			0.364	
93	93 PCB-114			NO	1.16	1.005	42.58		1.000		YES			0.333	
94	94 PCB-122			NO	0.973	1.005	42.71		1.003		YES			0.398	
95	95 PCB-105			NO	1.10	1.005	43.47		1.000		YES			0.351	
96	96 PCB-127			NO	1.11	1.005	43.81		1.000		YES			0.346	
97	97 PCB-126			NO	1.21	1.005	45.78		1.000		YES			0.362	
98	98 PCB-155			NO	0.874	1.005	37.23		1.000		YES			0.277	
99	99 PCB-150			NO	0.881	1.005	38.56		1.036		YES			0.274	
100	1... PCB-152			NO	1.00	1.005	39.07		1.050		YES			0.241	
101	1... PCB-145			NO	1.00	1.005	39.53		1.062		YES			0.242	
102	1... PCB-136			NO	0.843	1.005	39.86		1.071		YES			0.287	
103	1... PCB-148			NO	0.693	1.005	40.00		1.075		YES			0.349	
104	1... PCB-154			NO	0.724	1.005	40.50		1.088		YES			0.334	

Dataset: U:\VG11.PRO\Results\191106K2\191106K2-7.qld

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Name: 191106K2\_7, Date: 07-Nov-2019, Time: 06:26:36, ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151			NO	0.632	1.005	41.16		1.106		YES			0.382	
106	1... PCB-135			NO	0.716	1.005	41.34		1.111		YES			0.338	
107	1... PCB-144			NO	0.667	1.005	41.44		1.114		YES			0.363	
108	1... PCB-147			NO	0.661	1.005	41.59		1.118		YES			0.366	
109	1... PCB-139/149			NO	0.738	1.005	41.93		1.127		YES			0.327	
110	1... PCB-140			NO	0.627	1.005	42.11		1.132		YES			0.385	
111	1... PCB-134/143			NO	0.733	1.005	42.53		0.975		YES			0.322	
112	1... PCB-131/133			NO	0.790	1.005	42.81		0.982		YES			0.299	
113	1... PCB-142			NO	0.708	1.005	42.97		0.985		YES			0.333	
114	1... PCB-146/165			NO	0.959	1.005	43.22		0.991		YES			0.246	
115	1... PCB-132/161			NO	0.974	1.005	43.46		0.996		YES			0.242	
116	1... PCB-153			NO	1.01	1.005	43.64		1.000		YES			0.233	
117	1... PCB-168			NO	1.02	1.005	43.87		1.006		YES			0.231	
118	1... PCB-141			NO	0.967	1.005	44.40		1.000		YES			0.278	
119	1... PCB-137			NO	0.987	1.005	44.78		1.009		YES			0.272	
120	1... PCB-130			NO	0.840	1.005	44.89		1.012		YES			0.319	
121	1... PCB-138/163/164			NO	1.23	1.005	45.29		1.001		YES			0.225	
122	1... PCB-158/160			NO	1.18	1.005	45.54		1.006		YES			0.234	
123	1... PCB-129			NO	0.819	1.005	45.78		1.012		YES			0.337	
124	1... PCB-166			NO	1.07	1.005	46.26		0.993		YES			0.229	
125	1... PCB-159			NO	1.12	1.005	46.60		1.000		YES			0.219	
126	1... PCB-128/162			NO	0.851	1.005	46.89		1.007		YES			0.288	
127	1... PCB-167			NO	1.04	1.005	47.30		1.000		YES			0.238	
128	1... PCB-156			NO	1.06	1.005	48.62		1.000		YES			0.233	
129	1... PCB-157			NO	0.978	1.005	48.93		1.001		YES			0.252	
130	1... PCB-169			NO	1.11	1.005	51.18		1.000		YES			0.222	
131	1... PCB-188			NO	1.19	1.005	43.26		1.001		YES			0.188	
132	1... PCB-184			NO	1.17	1.005	43.71		1.011		YES			0.192	
133	1... PCB-179			NO	1.18	1.005	44.52		1.030		YES			0.191	
134	1... PCB-176			NO	1.16	1.005	44.99		1.041		YES			0.194	
135	1... PCB-186			NO	1.22	1.005	45.61		1.055		YES			0.184	
136	1... PCB-178			NO	0.830	1.005	46.12		1.067		YES			0.270	
137	1... PCB-175			NO	0.849	1.005	46.48		1.075		YES			0.264	
138	1... PCB-182/187			NO	0.960	1.005	46.68		1.080		YES			0.234	
139	1... PCB-183			NO	0.957	1.005	47.01		1.088		YES			0.235	
140	1... PCB-185			NO	1.32	1.005	47.68		0.955		YES			0.271	

Dataset: U:\VG11.PRO\Results\191106K2\191106K2-7.qld

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Name: 191106K2\_7, Date: 07-Nov-2019, Time: 06:26:36, ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174			NO	1.22	1.005	48.05		0.962		YES			0.293	
142	1... PCB-181			NO	1.41	1.005	48.15		0.964		YES			0.253	
143	1... PCB-177			NO	1.24	1.005	48.33		0.968		YES			0.288	
144	1... PCB-171			NO	1.24	1.005	48.62		0.974		YES			0.288	
145	1... PCB-173			NO	1.14	1.005	49.06		0.983		YES			0.313	
146	1... PCB-172			NO	1.31	1.005	49.55		0.992		YES			0.273	
147	1... PCB-192			NO	1.70	1.005	49.74		0.996		YES			0.210	
148	1... PCB-180			NO	1.32	1.005	49.95		1.000		YES			0.271	
149	1... PCB-193			NO	1.54	1.005	50.18		1.005		YES			0.232	
150	1... PCB-191			NO	1.57	1.005	50.43		1.010		YES			0.227	
151	1... PCB-170			NO	1.36	1.005	51.62		1.000		YES			0.288	
152	1... PCB-190			NO	1.84	1.005	51.80		1.004		YES			0.213	
153	1... PCB-189			NO	1.33	1.005	53.31		1.000		YES			0.209	
154	1... PCB-202			NO	1.02	1.005	48.87		1.001		YES			0.179	
155	1... PCB-201			NO	0.915	1.005	49.36		1.011		YES			0.200	
156	1... PCB-204			NO	0.979	1.005	49.51		1.014		YES			0.187	
157	1... PCB-197			NO	0.979	1.005	49.83		1.020		YES			0.187	
158	1... PCB-200			NO	0.954	1.005	50.78		1.040		YES			0.192	
159	1... PCB-198			NO	0.748	1.005	52.30		1.071		YES			0.245	
160	1... PCB-199			NO	0.706	1.005	52.41		1.073		YES			0.259	
161	1... PCB-196/203			NO	0.785	1.005	52.87		1.083		YES			0.233	
162	1... PCB-195			NO	1.03	1.005	53.98		0.984		YES			0.192	
163	1... PCB-194	1.21e2	0.75	YES	1.16	1.005	54.90	54.89	1.000	1.000	NO	0.6986		0.172	0.6081
164	1... PCB-205			NO	1.40	1.005	55.17		1.005		YES			0.142	
165	1... PCB-208			NO	0.934	1.005	54.14		1.000		YES			0.0987	
166	1... PCB-207			NO	0.912	1.005	54.46		1.006		YES			0.101	
167	1... PCB-206			NO	0.987	1.005	56.44		1.000		YES			0.127	
168	1... PCB-209	4.41e1	0.92	YES	0.943	1.005	57.64	57.67	1.000	1.001	NO	0.2858		0.0459	0.2582
169	1... 13C-PCB-1	7.09e5	3.18	NO	1.08	1.005	15.68	15.68	0.609	0.609	NO	1344	67.5	1.66	
170	1... 13C-PCB-3	7.93e5	3.50	NO	1.09	1.005	18.34	18.34	0.712	0.713	NO	1484	74.6	1.64	
171	1... 13C-PCB-4	4.56e5	1.58	NO	0.640	1.005	19.70	19.70	0.765	0.766	NO	1454	73.1	0.673	
172	1... 13C-PCB-9	6.63e5	1.57	NO	0.995	1.005	21.54	21.54	0.837	0.837	NO	1360	68.4	0.433	
173	1... 13C-PCB-11	7.24e5	1.58	NO	0.971	1.005	25.02	25.02	0.972	0.972	NO	1521	76.4	0.443	
174	1... 13C-PCB-19	5.25e5	1.01	NO	0.637	1.005	23.96	23.96	0.931	0.931	NO	1682	84.5	6.18	
175	1... 13C-PCB-32	7.44e5	0.98	NO	0.910	1.005	26.98	26.97	1.048	1.048	NO	1669	83.9	4.33	
176	1... 13C-PCB-28	6.13e5	1.00	NO	1.07	1.005	28.97	28.99	1.003	1.004	NO	1513	76.1	5.97	

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Name: 191106K2\_7, Date: 07-Nov-2019, Time: 06:26:36, ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	6.48e5	1.03	NO	0.959	1.005	32.97	32.99	1.141	1.142	NO	1782	89.6	6.65	
178	1... 13C-PCB-54	6.26e5	0.77	NO	1.10	1.005	27.83	27.82	0.754	0.754	NO	1670	84.0	1.46	
179	1... 13C-PCB-52	4.88e5	0.74	NO	0.844	1.005	31.48	31.49	0.853	0.853	NO	1696	85.2	1.90	
180	1... 13C-PCB-47	5.34e5	0.76	NO	0.893	1.005	32.00	32.01	0.867	0.867	NO	1752	88.1	1.80	
181	1... 13C-PCB-70	5.94e5	0.77	NO	1.01	1.005	35.63	35.63	0.965	0.965	NO	1729	86.9	1.59	
182	1... 13C-PCB-80	5.99e5	0.77	NO	1.05	1.005	36.06	36.08	0.977	0.977	NO	1680	84.5	1.54	
183	1... 13C-PCB-81	5.33e5	0.76	NO	0.985	1.005	39.28	39.28	1.064	1.064	NO	1588	79.8	1.63	
184	1... 13C-PCB-77	5.47e5	0.77	NO	0.958	1.005	39.89	39.90	1.080	1.081	NO	1673	84.1	1.68	
185	1... 13C-PCB-104	5.98e5	1.56	NO	1.10	1.005	32.67	32.68	0.827	0.828	NO	1951	98.1	0.723	
186	1... 13C-PCB-95	4.29e5	1.56	NO	0.852	1.005	35.95	35.95	0.910	0.910	NO	1801	90.5	0.931	
187	1... 13C-PCB-101	3.95e5	1.57	NO	0.814	1.005	37.70	37.70	0.955	0.955	NO	1735	87.2	0.975	
188	1... 13C-PCB-97	3.40e5	1.61	NO	0.709	1.005	39.04	39.04	0.989	0.989	NO	1713	86.1	1.12	
189	1... 13C-PCB-123	4.64e5	1.53	NO	0.922	1.005	41.67	41.70	1.055	1.056	NO	1801	90.5	0.861	
190	1... 13C-PCB-118	4.73e5	1.61	NO	0.975	1.005	41.86	41.89	1.060	1.061	NO	1735	87.2	0.814	
191	1... 13C-PCB-114	4.39e5	1.55	NO	1.52	1.005	42.56	42.56	0.908	0.908	NO	1534	77.1	1.66	
192	1... 13C-PCB-105	4.49e5	1.61	NO	1.58	1.005	43.45	43.45	0.927	0.927	NO	1508	75.8	1.59	
193	1... 13C-PCB-127	4.64e5	1.55	NO	1.62	1.005	43.81	43.79	0.935	0.935	NO	1519	76.4	1.55	
194	1... 13C-PCB-126	4.06e5	1.57	NO	1.45	1.005	45.76	45.76	0.976	0.977	NO	1494	75.1	1.74	
195	1... 13C-PCB-155	4.16e5	1.31	NO	1.03	1.005	37.21	37.22	0.942	0.943	NO	1452	73.0	0.342	
196	1... 13C-PCB-153	4.43e5	1.21	NO	1.42	1.005	43.62	43.62	0.931	0.931	NO	1653	83.1	1.43	
197	1... 13C-PCB-141	3.77e5	1.23	NO	1.14	1.005	44.40	44.38	0.947	0.947	NO	1755	88.2	1.78	
198	1... 13C-PCB-138	3.77e5	1.21	NO	1.18	1.005	45.25	45.25	0.966	0.966	NO	1699	85.4	1.73	
199	1... 13C-PCB-159	4.24e5	1.28	NO	1.43	1.005	46.60	46.58	0.994	0.994	NO	1571	79.0	1.42	
200	2... 13C-PCB-167	4.17e5	1.27	NO	1.42	1.005	47.30	47.28	1.009	1.009	NO	1556	78.2	1.43	
201	2... 13C-PCB-156	4.27e5	1.25	NO	1.40	1.005	48.62	48.60	1.038	1.037	NO	1622	81.5	1.46	
202	2... 13C-PCB-157	4.29e5	1.25	NO	1.41	1.005	48.91	48.89	1.044	1.043	NO	1622	81.5	1.45	
203	2... 13C-PCB-169	4.39e5	1.24	NO	1.35	1.005	51.18	51.16	1.092	1.092	NO	1731	87.0	1.51	
204	2... 13C-PCB-188	4.29e5	0.46	NO	1.46	1.005	43.22	43.22	0.926	0.926	NO	1741	87.5	0.867	
205	2... 13C-PCB-180	2.72e5	0.44	NO	0.932	1.005	49.93	49.93	1.070	1.070	NO	1734	87.1	1.36	
206	2... 13C-PCB-170	2.40e5	0.44	NO	0.796	1.005	51.60	51.60	1.106	1.106	NO	1791	90.0	1.59	
207	2... 13C-PCB-189	3.06e5	0.44	NO	1.09	1.005	53.28	53.28	1.142	1.142	NO	1663	83.6	1.16	
208	2... 13C-PCB-202	3.49e5	0.87	NO	1.45	1.005	48.83	48.83	1.046	1.046	NO	1429	71.8	0.565	
209	2... 13C-PCB-194	3.10e5	0.92	NO	0.714	1.005	54.90	54.89	0.995	0.995	NO	1681	84.5	0.855	
210	2... 13C-PCB-208	3.84e5	0.81	NO	0.896	1.005	54.14	54.13	0.982	0.981	NO	1659	83.4	0.863	
211	2... 13C-PCB-206	2.80e5	0.78	NO	0.653	1.005	56.42	56.42	1.023	1.023	NO	1660	83.4	1.18	
212	2... 13C-PCB-209	3.21e5	1.18	NO	0.806	1.005	57.65	57.64	1.045	1.045	NO	1542	77.5	0.272	



Dataset: U:\VG11.PRO\Results\191106K2\191106K2-7.qld

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Name: 191106K2\_7, Date: 07-Nov-2019, Time: 06:26:36, ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	9.74e5	1.58	NO	1.00	1.005	25.74	25.74	1.000	0.000	NO	1990	100	0.431	
214	2... 13C-PCB-31	7.53e5	1.02	NO	1.00	1.005	28.90	28.88	1.000	0.000	NO	1990	100	6.38	
215	2... 13C-PCB-60	6.78e5	0.77	NO	1.00	1.005	36.94	36.92	1.000	0.000	NO	1990	100	1.61	
216	2... 13C-PCB-111	5.56e5	1.53	NO	1.00	1.005	39.51	39.49	1.000	0.000	NO	1990	100	0.794	
217	2... 13C-PCB-128	3.74e5	1.25	NO	1.00	1.005	46.86	46.86	1.000	0.000	NO	1990	100	2.04	
218	2... 13C-PCB-182	3.35e5	0.45	NO	1.00	1.005	46.69	46.67	0.000	0.000	NO	1990	100	1.27	
219	2... 13C-PCB-205	5.15e5	0.89	NO	1.00	1.005	55.16	55.16	1.000	0.000	NO	1990	100	0.610	
220	2... 13C-PCB-79	5.94e5	0.76	NO	1.03	1.005	38.05	38.02	1.031	1.030	NO	1687	84.8	1.56	
221	2... 13C-PCB-178	2.86e5	0.44	NO	0.875	1.005	46.12	46.12	0.988	0.988	NO	1734	87.2	1.36	
222	2... 13C-PCB-79	5.94e5	0.76	NO	1.05	1.005	38.01	38.02	0.967	0.968	NO	2118	106	1.98	
223	2... 13C-PCB-178	2.86e5	0.44	NO	0.975	1.005	46.12	46.12	0.924	0.924	NO	2140	108	1.63	
224	2... Total Mono-PCBs				1.01	1.005	0.00		0.000		NO	0.0000		0.612	1.658
225	2... Total Di-PCBs				1.06	1.005	0.00		0.000		NO	5.984		8.43	5.984
226	2... 2nd Function Tri-PCBs				0.914	1.005	0.00		0.000		NO	1.597		2.91	3.330
227	2... 3rd Function Tri-PCBs				1.06	1.005	0.00		0.000		NO	1.058		4.55	3.951
228	2... Total Tetra-PCBs				0.986	1.005	0.00		0.000		NO	2.473		12.9	8.700
229	2... 3rd Function Penta-PCBs				1.12	1.005	0.00		0.000		NO	0.0000		11.9	2.250
230	2... 4th Function Penta-PCBs				1.11	1.005	0.00		0.000		NO			1.79	
231	2... 3rd Function Hexa-PCBs				0.774	1.005	0.00		0.000		NO			4.16	
232	2... 4th Function Hexa-PCBs				0.972	1.005	0.00		0.000		NO			5.25	
233	2... Total Hepta-PCBs				1.26	1.005	0.00		0.000		NO			5.58	
234	2... 4th Function Octa-PCBs				0.886	1.005	0.00		0.000		NO			1.68	
235	2... 5th Function Octa-PCBs				1.20	1.005	0.00		0.000		NO	0.0000		0.505	0.6081
236	2... Total Nona-PCBs				0.945	1.005	0.00		0.000		NO			0.327	
237	2... Deca-CB				0.943	1.005	0.00		0.000		NO	0.0000		0.0439	0.2582
238	2... Total PCBs														

Handwritten notes and corrections in the table:

- Row 226: Conc. 1.597 → 2.655
- Row 227: Conc. 1.058 → 7.250
- Row 228: Conc. 2.473 → 12.9
- Row 229: Conc. 0.0000 → 11.9
- Row 231: Conc. 4.16 → 3.85
- Row 232: Conc. 5.25 → 0.385
- Row 233: Conc. 5.58 → 0.313
- Row 235: Conc. 0.505 → 0.127

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Dataset: U:\VG11.PRO\Results\191106K2\191106K2-7.qld

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Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-04-19.mdb 05 Nov 2019 14:32:48

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

**Total Mono-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-1	15.69	15.68	4.441e3	1.964e3	2.796e2	1.337e2	2.09	YES	4.133e2	0.00000	1.0142	0.208
2 PCB-3	18.35	18.36	3.281e3	1.439e3	1.959e2	8.786e1	2.23	YES	2.838e2	0.00000	0.64411	0.203

**Total Di-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-11	25.04	25.04	2.195e4	1.390e4	1.385e3	1.001e3	1.38	NO	2.385e3	5.9842	5.9842	0.164

**2nd Function Tri-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-18	25.66	25.69	2.855e3	2.818e3	2.241e2	1.896e2	1.18	NO	4.137e2	1.5974	1.5974	0.376
2 PCB-17	25.84	25.88	1.292e3	2.480e3	7.410e1	1.139e2	0.65	YES	1.880e2	0.00000	0.58318	0.391
3 PCB-16/32	26.99	26.98	2.675e3	2.567e3	2.346e2	1.668e2	1.41	YES	4.014e2	0.00000	1.1490	0.329

**3rd Function Tri-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-26	28.38	28.36	9.220e2	8.680e2	5.849e1	7.747e1	0.76	YES	1.360e2	0.00000	0.37227	0.347
2 PCB-31	28.92	28.90	2.448e3	2.860e3	1.791e2	2.101e2	0.85	YES	3.892e2	0.00000	1.0159	0.309
3 PCB-28	29.01	29.01	2.714e3	2.020e3	2.095e2	1.437e2	1.46	YES	3.533e2	0.00000	0.86101	0.314
4 PCB-20/21/33	29.65	29.66	1.621e3	1.758e3	1.643e2	1.624e2	1.01	NO	3.268e2	1.0575	1.0575	0.346
5 PCB-22	30.14	30.09	2.198e3	1.122e3	2.040e2	1.005e2	2.03	YES	3.045e2	0.00000	0.64467	0.336

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Dataset: U:\VG11.PRO\Results\191106K2\191106K2-7.qld

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ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

**Total Tetra-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-52/69	31.52	31.54	1.414e3	2.606e3	1.113e2	1.804e2	0.62	YES	2.917e2	0.00000	0.95549	0.382
2	PCB-43/49	31.81	31.82	9.810e2	1.505e3	6.053e1	9.743e1	0.62	YES	1.580e2	0.00000	0.60323	0.444
3	PCB-47	32.03	32.02	2.406e3	3.953e3	1.909e2	3.368e2	0.57	YES	5.277e2	0.00000	1.8827	0.446
4	PCB-44	32.86	32.83	1.004e3	1.633e3	9.194e1	1.320e2	0.70	NO	2.239e2	1.0970	1.0970	0.509
5	PCB-42/59	33.08	33.08	6.300e2	6.150e2	3.730e1	5.032e1	0.74	NO	8.762e1	0.34021	0.34021	0.404
6	PCB-41/64/71/72	33.70	33.70	2.010e3	1.772e3	1.602e2	1.379e2	1.16	YES	2.980e2	0.00000	0.84070	0.358
7	PCB-74	35.43	35.45	1.179e3	1.755e3	7.035e1	1.604e2	0.44	YES	2.308e2	0.00000	0.50822	0.345
8	PCB-61/70	35.65	35.67	2.186e3	1.841e3	2.110e2	1.535e2	1.37	YES	3.645e2	0.00000	0.92319	0.373
9	PCB-76/66	35.81	35.88	1.185e3	3.197e3	1.322e2	1.973e2	0.67	NO	3.296e2	1.0355	1.0355	0.345
10	PCB-56/60	36.96	36.90	8.780e2	9.290e2	1.036e2	8.164e1	1.27	YES	1.853e2	0.00000	0.51354	0.368

**3rd Function Penta-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-88/91	36.38	36.38	9.390e2	6.210e2	5.214e1	5.922e1	0.88	YES	1.114e2	0.00000	0.44618	0.466
2	PCB-90/101	37.72	37.76	1.635e3	9.870e2	1.221e2	1.130e2	1.08	YES	2.351e2	0.00000	1.0704	0.479
3	PCB-110	40.04	40.04	1.721e3	1.547e3	1.133e2	1.139e2	0.99	YES	2.273e2	0.00000	0.73336	0.358

**4th Function Penta-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1													

**3rd Function Hexa-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1													

**4th Function Hexa-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1													

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ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

**Total Hepta-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**4th Function Octa-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**5th Function Octa-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	PCB-194	54.90	54.89	1.179e3	1.278e3	5.163e1	6.891e1	0.75	YES	1.205e2	0.00000	0.60813	0.172

**Total Nona-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**Deca-CB**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL	
1	PCB-209	57.64	57.67	3.250e2	4.560e2	2.120e1	2.293e1	0.92	YES	4.413e1	0.00000	0.25821	0.0439

**Total PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

**Total Mono-Isotopes**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-1	15.68	15.68	9.743e6	3.016e6	5.393e5	1.697e5	3.18	NO	7.090e5	1343.8	1.66
2	13C-PCB-3	18.34	18.34	1.034e7	2.999e6	6.167e5	1.762e5	3.50	NO	7.929e5	1484.2	1.64

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ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

**Total Di-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-4	19.70	19.70	4.753e6	2.987e6	2.793e5	1.763e5	1.58	NO	4.556e5	1454.0		0.673
2	13C-PCB-9	21.54	21.54	6.635e6	4.230e6	4.055e5	2.575e5	1.57	NO	6.630e5	1360.3		0.433
3	13C-PCB-11	25.02	25.02	6.843e6	4.345e6	4.433e5	2.802e5	1.58	NO	7.235e5	1520.9		0.443
4	13C-PCB-15	25.74	25.74	9.229e6	5.882e6	5.969e5	3.773e5	1.58	NO	9.743e5	1989.5		0.431

**2nd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-19	23.96	23.96	4.194e6	4.152e6	2.634e5	2.614e5	1.01	NO	5.248e5	1681.8		6.18
2	13C-PCB-32	26.98	26.97	5.685e6	5.825e6	3.678e5	3.757e5	0.98	NO	7.435e5	1668.7		4.33

**3rd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-31	28.90	28.88	5.151e6	5.002e6	3.811e5	3.723e5	1.02	NO	7.533e5	1989.5		6.38
2	13C-PCB-28	28.97	28.99	4.074e6	4.109e6	3.062e5	3.064e5	1.00	NO	6.126e5	1513.1		5.97
3	13C-PCB-37	32.97	32.99	4.342e6	4.178e6	3.284e5	3.191e5	1.03	NO	6.475e5	1782.2		6.65

**Tetra-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-54	27.83	27.82	3.712e6	4.837e6	2.720e5	3.535e5	0.77	NO	6.255e5	1670.4		1.46
2	13C-PCB-52	31.48	31.49	2.839e6	3.851e6	2.071e5	2.811e5	0.74	NO	4.882e5	1696.0		1.90
3	13C-PCB-47	32.00	32.01	3.104e6	4.098e6	2.300e5	3.038e5	0.76	NO	5.338e5	1752.4		1.80
4	13C-PCB-70	35.63	35.63	3.302e6	4.292e6	2.585e5	3.354e5	0.77	NO	5.939e5	1728.7		1.59
5	13C-PCB-80	36.06	36.08	3.538e6	4.519e6	2.611e5	3.381e5	0.77	NO	5.992e5	1680.3		1.54
6	13C-PCB-60	36.94	36.92	3.902e6	5.059e6	2.961e5	3.822e5	0.77	NO	6.784e5	1989.5		1.61
7	13C-PCB-79	38.05	38.02	3.296e6	4.435e6	2.561e5	3.375e5	0.76	NO	5.936e5	1687.0		1.56
8	13C-PCB-81	39.28	39.28	2.984e6	3.943e6	2.297e5	3.036e5	0.76	NO	5.334e5	1588.1		1.63
9	13C-PCB-77	39.89	39.90	2.960e6	3.854e6	2.373e5	3.094e5	0.77	NO	5.467e5	1672.9		1.68

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ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

3rd Function Penta-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-104	32.67	32.68	4.936e6	3.134e6	3.643e5	2.339e5	1.56	NO	5.982e5	1951.3		0.723
2	13C-PCB-95	35.95	35.95	3.515e6	2.243e6	2.611e5	1.678e5	1.56	NO	4.289e5	1801.1		0.931
3	13C-PCB-101	37.70	37.70	3.233e6	2.014e6	2.411e5	1.535e5	1.57	NO	3.946e5	1735.5		0.975
4	13C-PCB-97	39.04	39.04	2.776e6	1.733e6	2.097e5	1.299e5	1.61	NO	3.396e5	1713.1		1.12
5	13C-PCB-111	39.51	39.49	4.381e6	2.807e6	3.359e5	2.201e5	1.53	NO	5.560e5	1989.5		0.794
6	13C-PCB-123	41.67	41.70	3.537e6	2.267e6	2.807e5	1.830e5	1.53	NO	4.638e5	1800.6		0.861
7	13C-PCB-118	41.86	41.89	3.792e6	2.383e6	2.919e5	1.809e5	1.61	NO	4.727e5	1734.9		0.814

4th Function Penta-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-114	42.56	42.56	3.466e6	2.226e6	2.666e5	1.721e5	1.55	NO	4.387e5	1533.9		1.66
2	13C-PCB-105	43.45	43.45	3.520e6	2.193e6	2.768e5	1.724e5	1.61	NO	4.493e5	1507.5		1.59
3	13C-PCB-127	43.81	43.79	3.500e6	2.258e6	2.820e5	1.817e5	1.55	NO	4.637e5	1519.3		1.55
4	13C-PCB-126	45.76	45.76	3.069e6	1.935e6	2.482e5	1.581e5	1.57	NO	4.064e5	1493.8		1.74

4th Function Hexa-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-153	43.62	43.62	3.068e6	2.533e6	2.423e5	2.007e5	1.21	NO	4.430e5	1653.1		1.43
2	13C-PCB-141	44.40	44.38	2.722e6	2.212e6	2.085e5	1.690e5	1.23	NO	3.775e5	1754.9		1.78
3	13C-PCB-138	45.25	45.25	2.628e6	2.162e6	2.068e5	1.706e5	1.21	NO	3.774e5	1699.2		1.73
4	13C-PCB-159	46.60	46.58	3.032e6	2.382e6	2.383e5	1.856e5	1.28	NO	4.239e5	1571.3		1.42
5	13C-PCB-128	46.86	46.86	2.581e6	2.035e6	2.084e5	1.661e5	1.25	NO	3.745e5	1989.5		2.04
6	13C-PCB-167	47.30	47.28	2.978e6	2.349e6	2.330e5	1.841e5	1.27	NO	4.171e5	1556.2		1.43
7	13C-PCB-156	48.62	48.60	2.992e6	2.383e6	2.372e5	1.893e5	1.25	NO	4.266e5	1621.5		1.46
8	13C-PCB-157	48.91	48.89	2.989e6	2.401e6	2.386e5	1.907e5	1.25	NO	4.294e5	1621.7		1.45
9	13C-PCB-169	51.18	51.16	2.980e6	2.417e6	2.431e5	1.955e5	1.24	NO	4.386e5	1730.9		1.51

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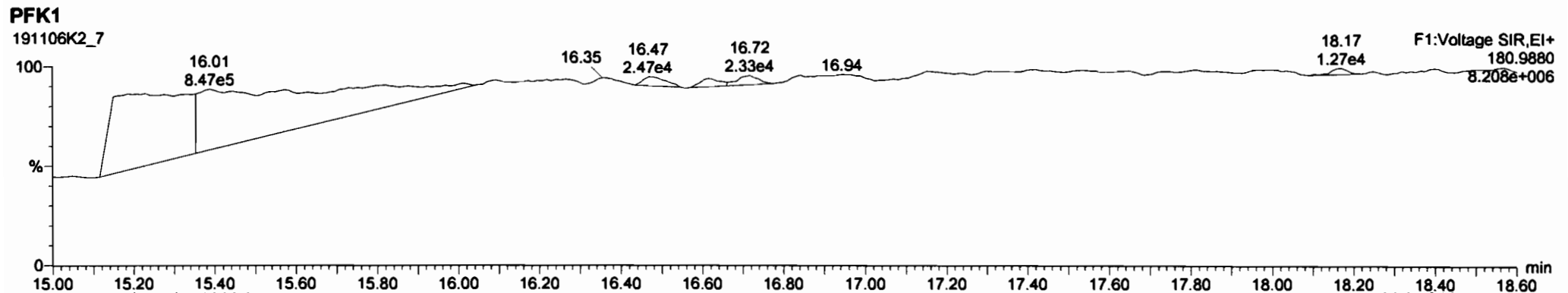
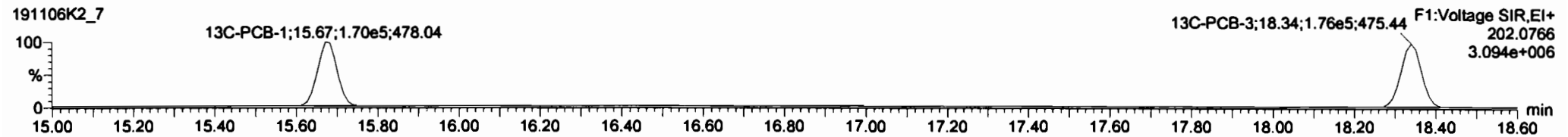
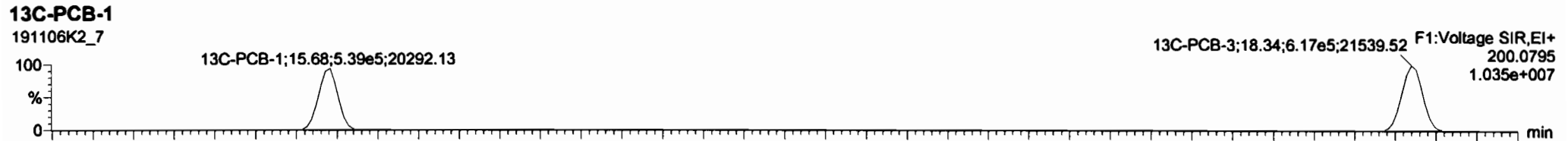
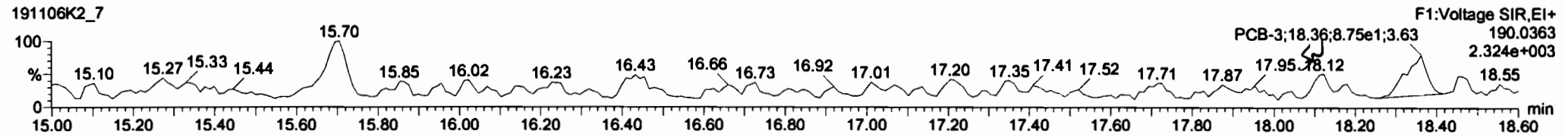
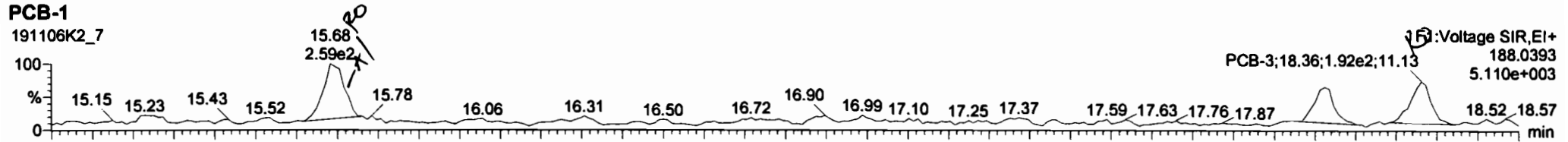
5th Function Octa-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-194	54.90	54.89	2.774e6	3.006e6	1.487e5	1.615e5	0.92	NO	3.103e5	1681.0		0.855
2	13C-PCB-205	55.16	55.16	4.327e6	4.841e6	2.427e5	2.719e5	0.89	NO	5.146e5	1989.5		0.610

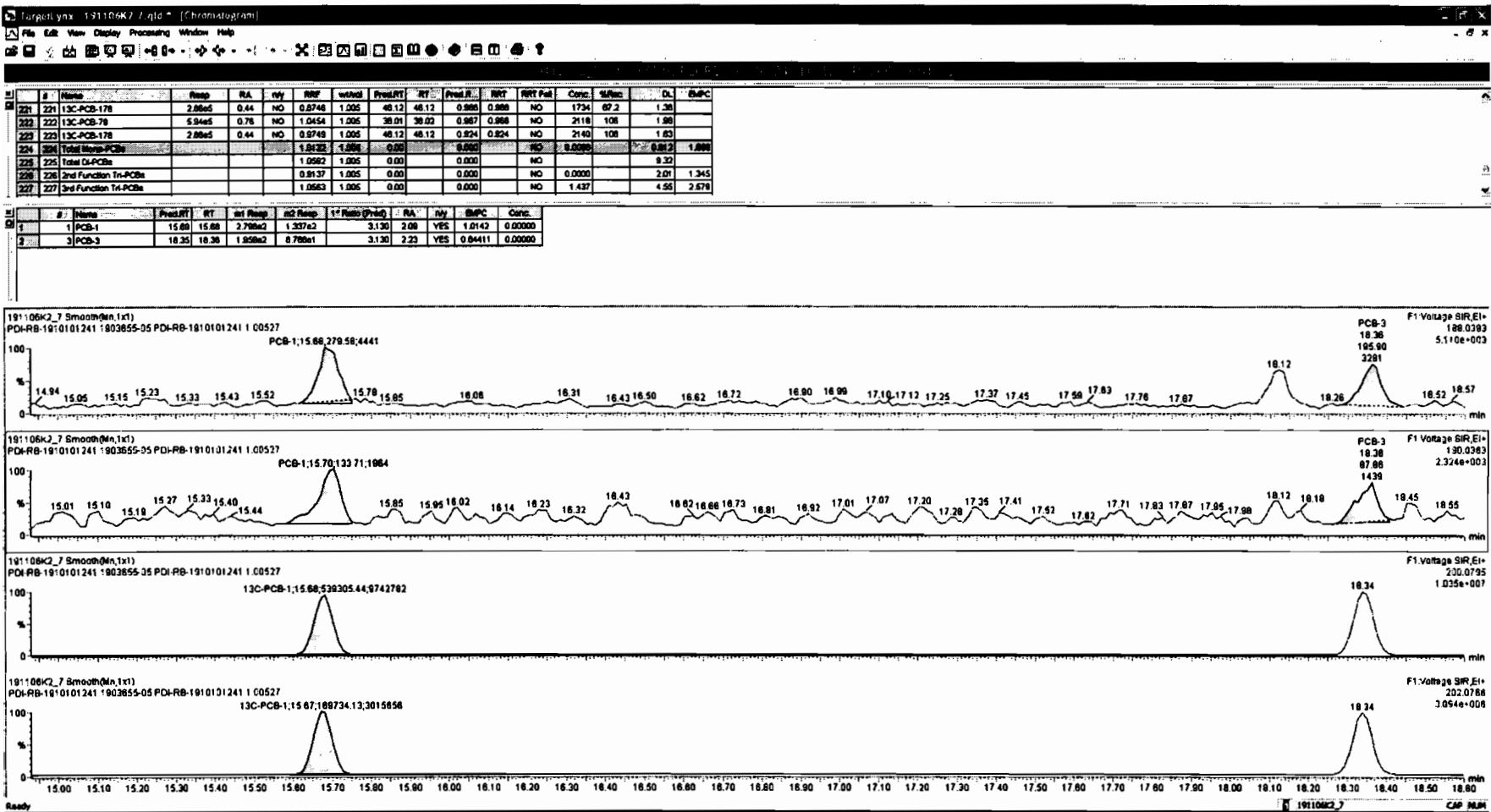
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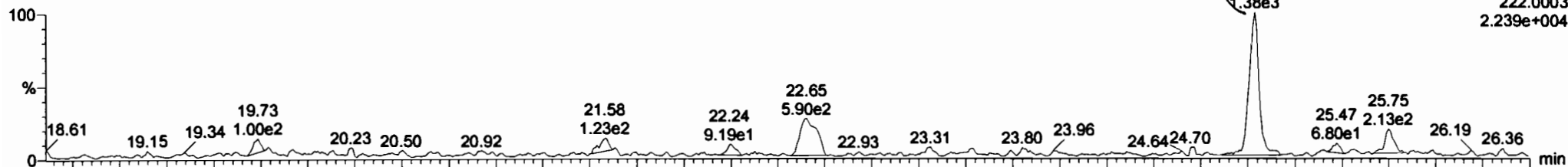
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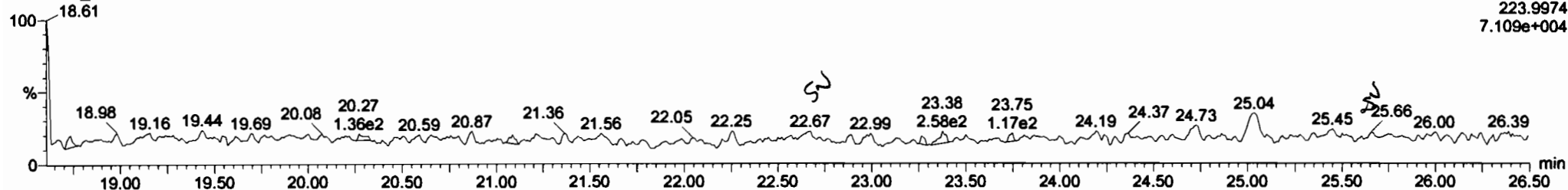
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PCB-4/10

191106K2\_7

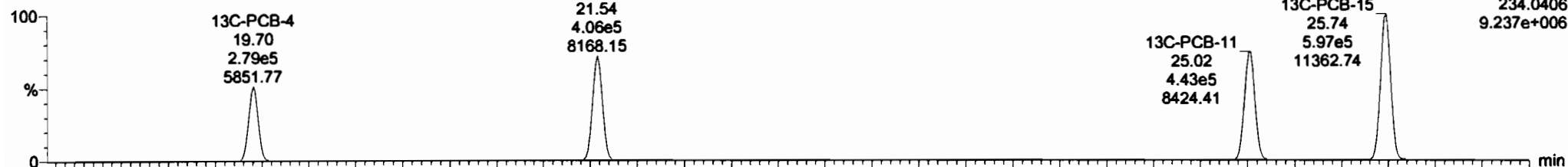


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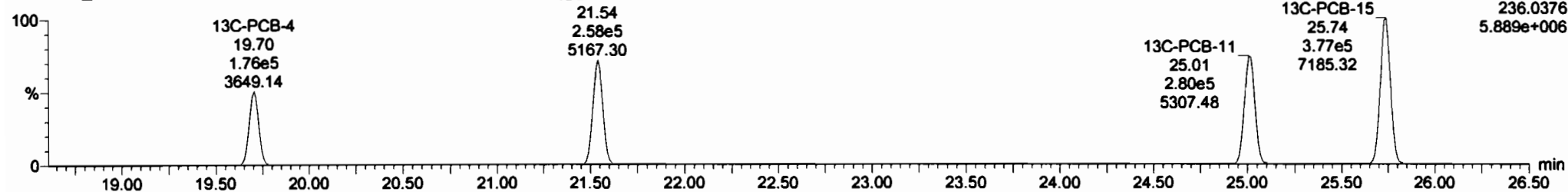


13C-PCB-4

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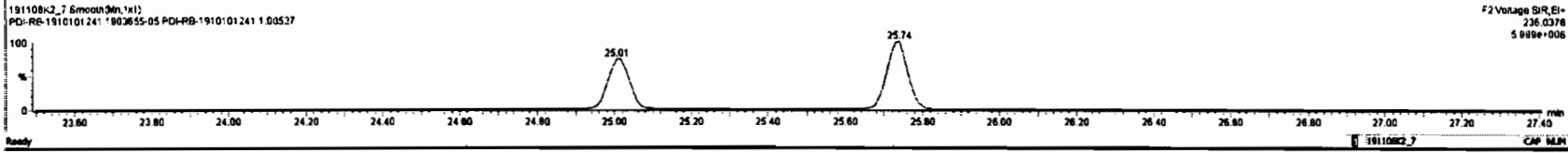
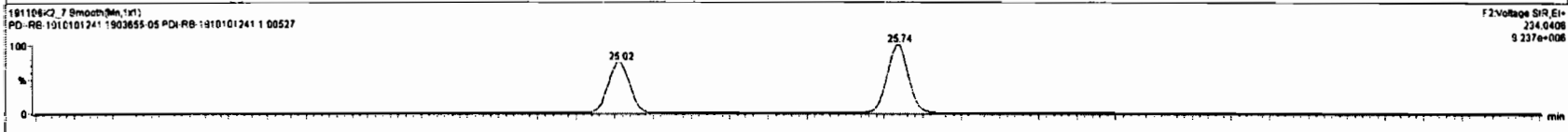
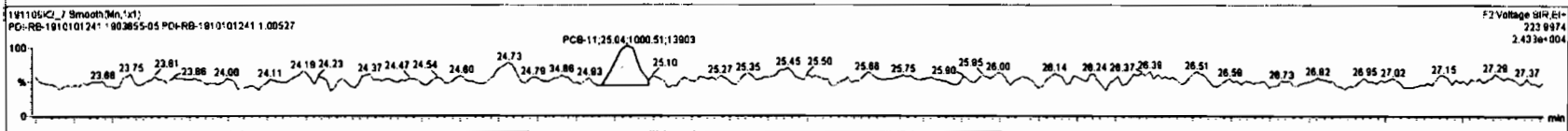
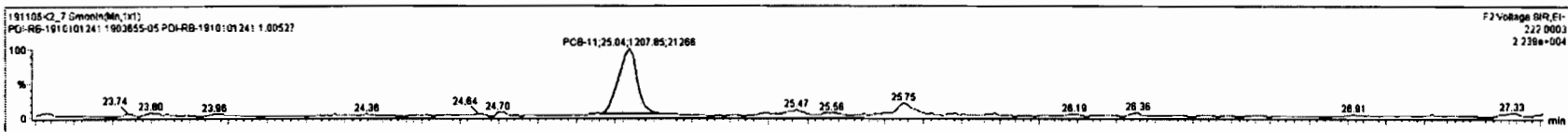


191106K2\_7



#	Name	Resp	RA	RV	RP	Value1	ProdRT	RT	ProdR	RTT	RTT Pct	Conc	Subc	SL	QPC
221	13C-PCB-178	2.86e5	0.44	NO	0.8748	1.005	48.12	48.12	0.000	0.000	NO	1724	87.2	1.38	
222	13C-PCB-78	5.84e5	0.78	NO	1.0454	1.005	38.01	38.02	0.007	0.000	NO	2118	108	1.38	
223	13C-PCB-178	2.86e5	0.44	NO	0.8748	1.005	48.12	48.12	0.024	0.024	NO	2140	108	1.03	
224	Total Mono-PCBs				1.0122	1.005	0.00		0.000		NO	0.0000		0.812	1.858
225	Total Di-PCBs				1.0083	1.005	0.00		0.000		NO	0.0000		8.43	4.873
226	2nd Function Tri-PCBs				0.8137	1.005	0.00		0.000		NO	0.0000		2.01	1.345
227	3rd Function Tri-PCBs				1.0983	1.005	0.00		0.000		NO	1.437		4.55	3.578

#	Name	ProdRT	RT	Int Resp	Int Resp	1st Retn (Prod)	RA	RV	QPC	Conc.
1	PCB-11	25.04	25.04	1.208e3	1.001e3	1.580	1.2	YES	4.8731	0.00000



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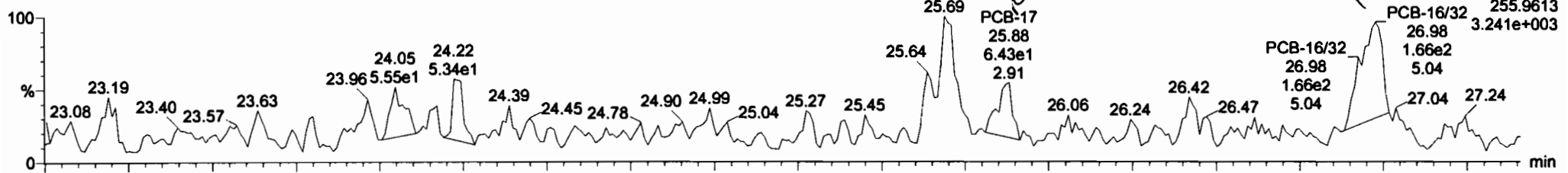
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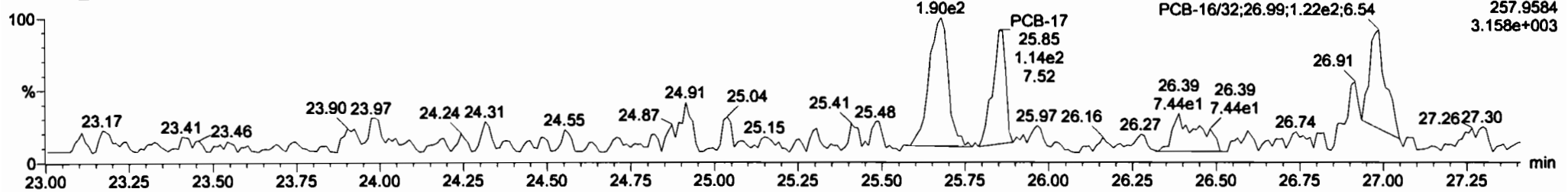
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PCB-19

191106K2\_7

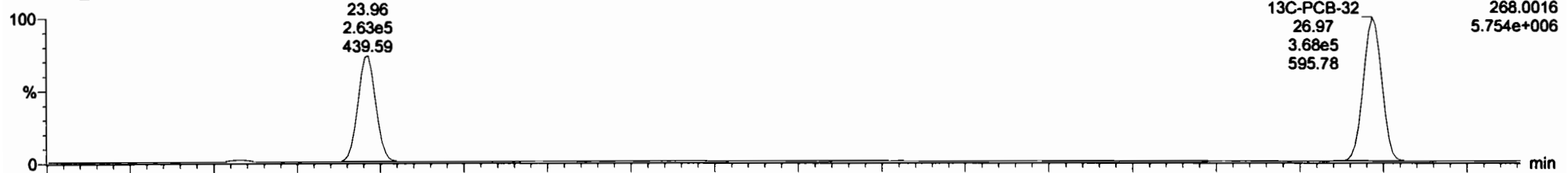


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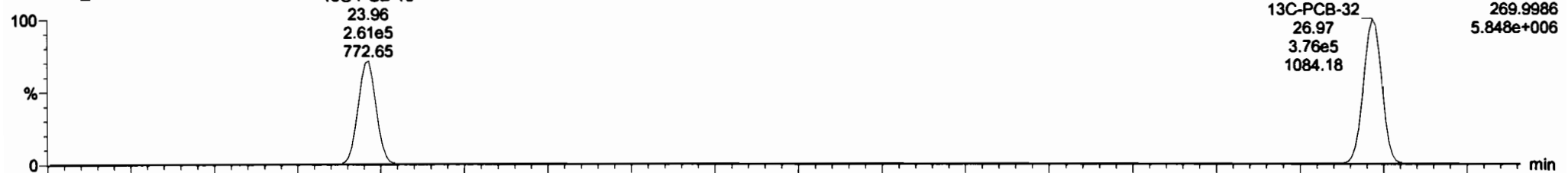


13C-PCB-19

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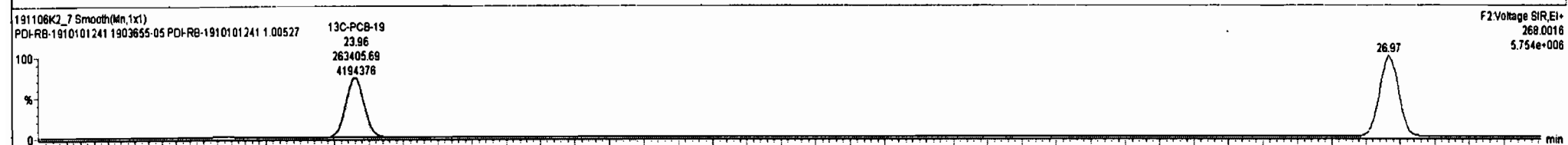
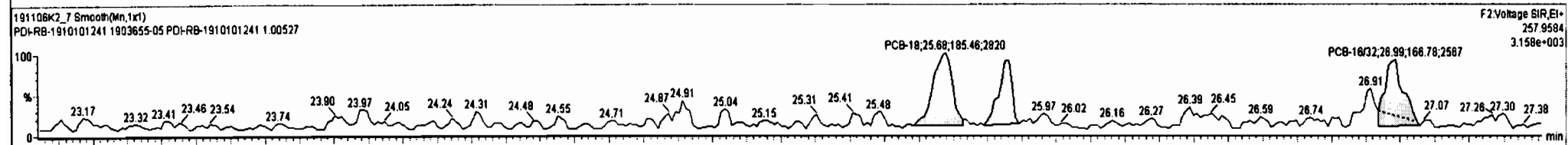
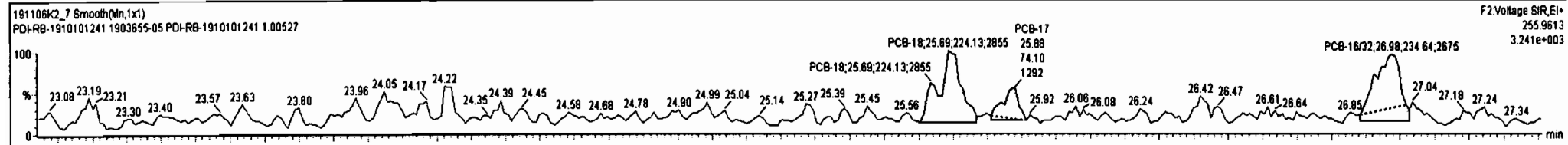


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#	Name	Resp	RA	rvy	RRF	wAval	Pred.RT	RT	Pred.RT	RRF	RRF Fail	Conc.	%Rec	DL	EMPC
221	221 13C-PCB-178	2.86e5	0.44	NO	0.8746	1.005	46.12	46.12	0.988	0.988	NO	1734	87.2	1.38	
222	222 13C-PCB-79	5.94e5	0.76	NO	1.0454	1.005	38.01	38.02	0.957	0.958	NO	2118	106	1.98	
223	223 13C-PCB-178	2.86e5	0.44	NO	0.9749	1.005	46.12	46.12	0.924	0.924	NO	2140	108	1.63	
224	224 Total Mono-PCBs				1.0122	1.005	0.00		0.000		NO	0.0000		0.612	1.658
225	225 Total Di-PCBs				1.0592	1.005	0.00		0.000		NO	0.0000		8.43	4.973
226	226 2nd Function Tri-PCBs				0.9137	1.005	0.00		0.000		NO	0.0000		2.09	3.193
227	227 2nd Function Tri-PCBs				1.0563	1.005	0.00		0.000		NO	1.437		4.55	2.579

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	rvy	EMPC	Conc.
1	14 PCB-18	25.66	25.69	2.241e2	1.855e2	1.040	1.21	YES	1.4608	0.00000
2	15 PCB-17	25.84	25.88	7.410e1	1.139e2	1.040	0.65	YES	0.58318	0.00000
3	17 PCB-16/32	26.99	26.98	2.346e2	1.688e2	1.040	1.41	YES	1.1490	0.00000



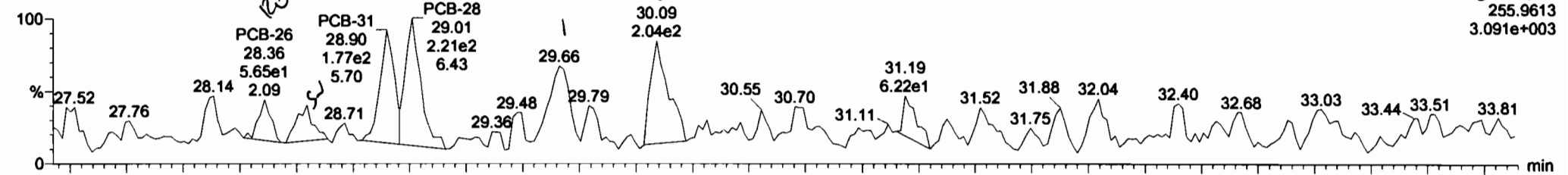
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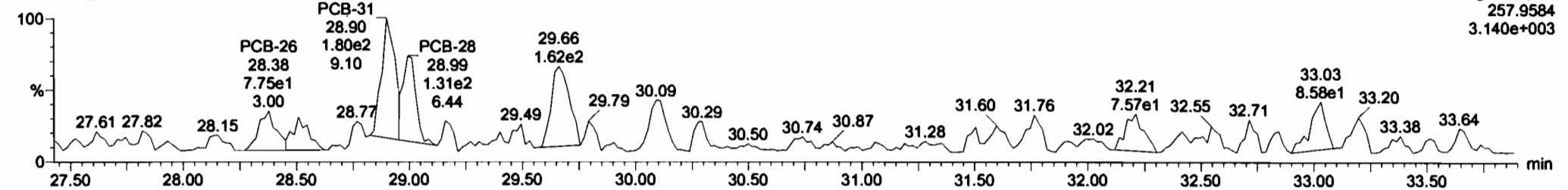
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PCB-34

191106K2\_7

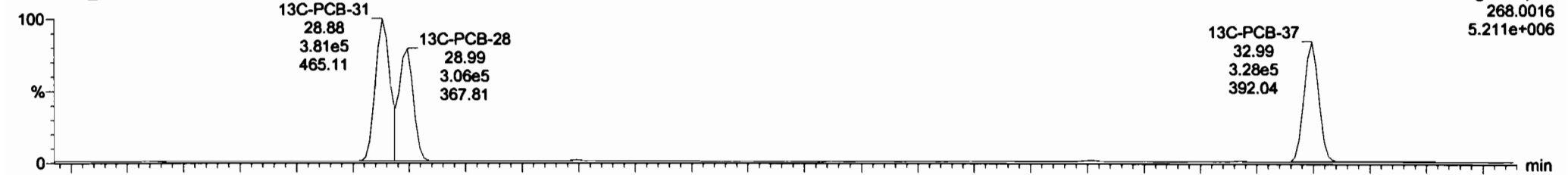


191106K2\_7

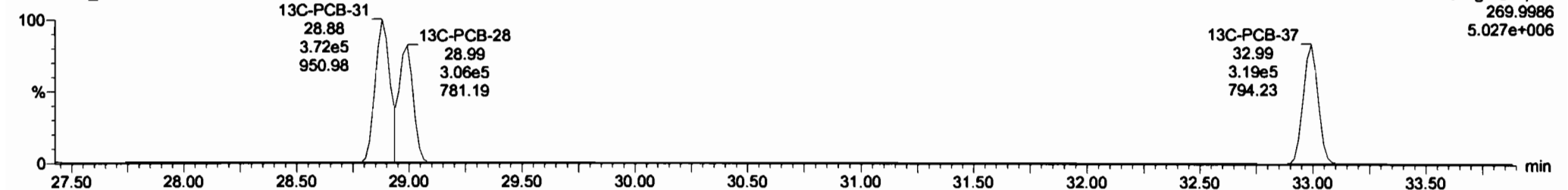


13C-PCB-28

191106K2\_7

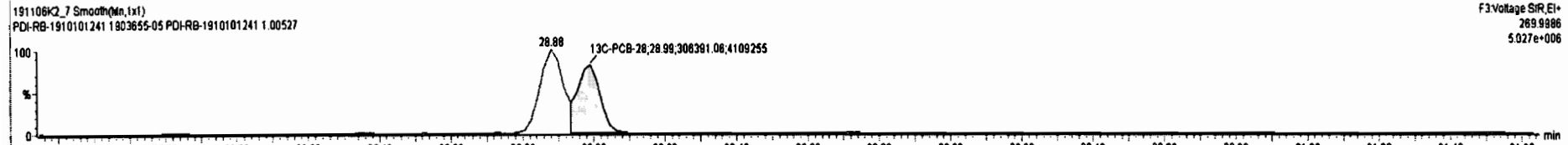
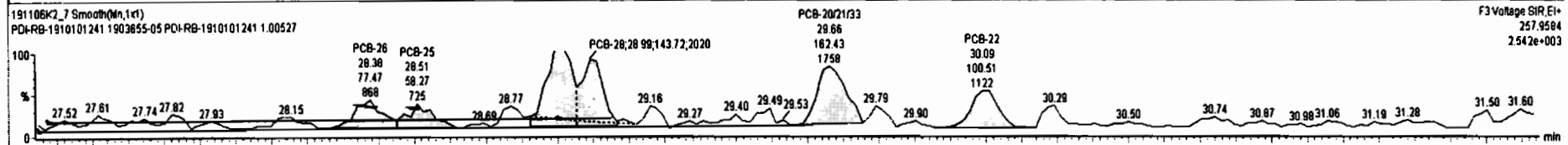
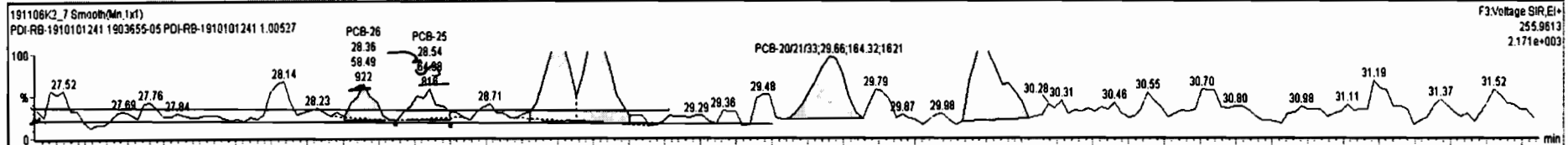


191106K2\_7



#	Name	Resp	RA	rly	RNF	ndVol	Prod.RT	RT	Prod.R.	RRT	RRT Fal	Conc.	%Res	DL	EMPC
221	13C-PCB-178	2.86e5	0.44	NO	0.8746	1.005	46.12	46.12	0.988	0.988	NO	1734	87.2	1.36	
222	13C-PCB-79	5.94e5	0.76	NO	1.0454	1.005	38.01	38.02	0.967	0.968	NO	2118	108	1.98	
223	13C-PCB-178	2.86e5	0.44	NO	0.9749	1.005	46.12	46.12	0.924	0.924	NO	2140	108	1.63	
224	Total Mono-PCBs				1.0122	1.005	0.00		0.000		NO	0.0000		0.812	1.658
225	Total Di-PCBs				1.0562	1.005	0.00		0.000		NO	0.0000		8.43	4.973
226	2nd Function Tri-PCBs				0.9137	1.005	0.00		0.000		NO	0.0000		2.01	3.193
227	2nd Function Tri-PCBs				1.0883	1.005	0.00		0.000		NO	1.487		4.85	4.991

#	Name	Prod.RT	RT	m1 Resp	m2 Resp	1* Ratio (Prod)	RA	rly	EMPC	Conc.
1	21 PCB-26	28.38	28.36	5.849e1	7.747e1	1.040	0.76	YES	0.37227	0.00000
2	22 PCB-25	28.53	28.54	6.499e1	5.827e1	1.040	1.12	NO	0.40834	0.40834
3	23 PCB-31	28.92	28.90	1.791e2	2.101e2	1.040	0.85	YES	1.0159	0.00000
4	24 PCB-28	29.01	29.01	2.085e2	1.437e2	1.040	1.46	YES	0.86101	0.00000
5	25 PCB-20/21/33	28.85	28.86	1.643e2	1.624e2	1.040	1.01	NO	1.0575	1.0575
6	26 PCB-22	30.14	30.09	2.040e2	1.005e2	1.040	2.03	YES	0.64467	0.00000



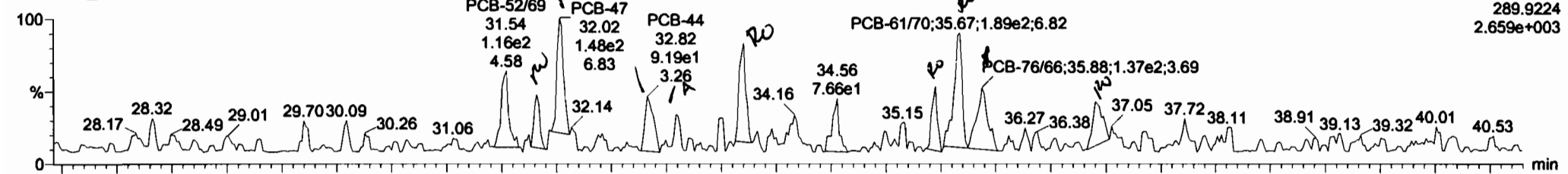
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Printed: Thursday, November 07, 2019 12:28:48 Pacific Standard Time

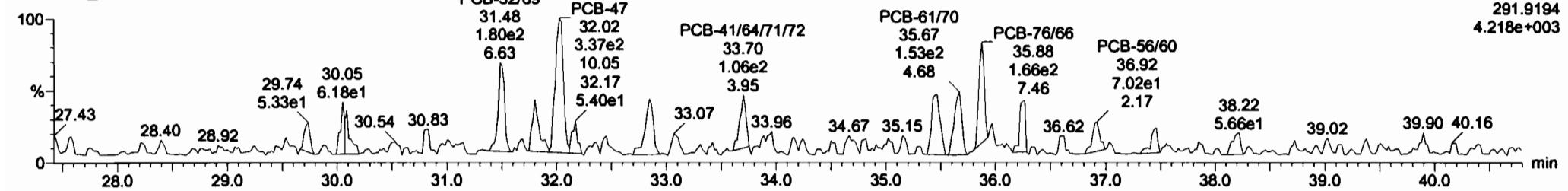
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PCB-54

191106K2\_7

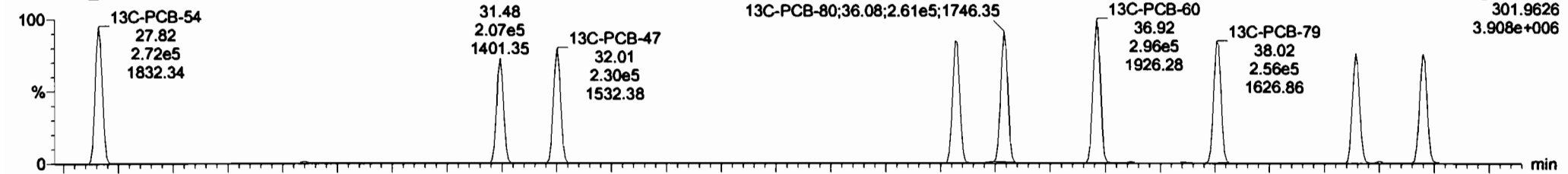


191106K2\_7

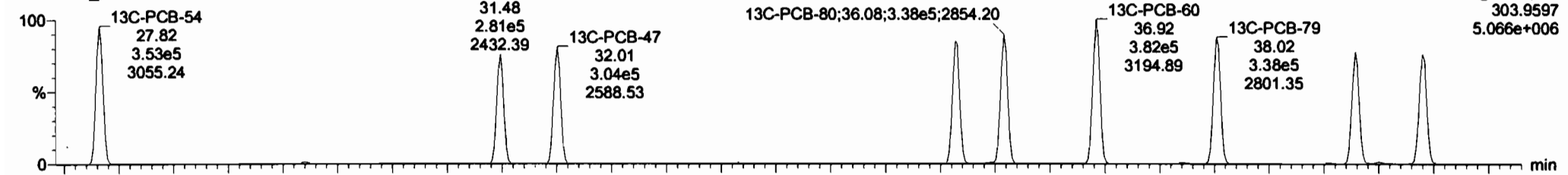


13C-PCB-54

191106K2\_7



191106K2\_7





Dataset: Untitled

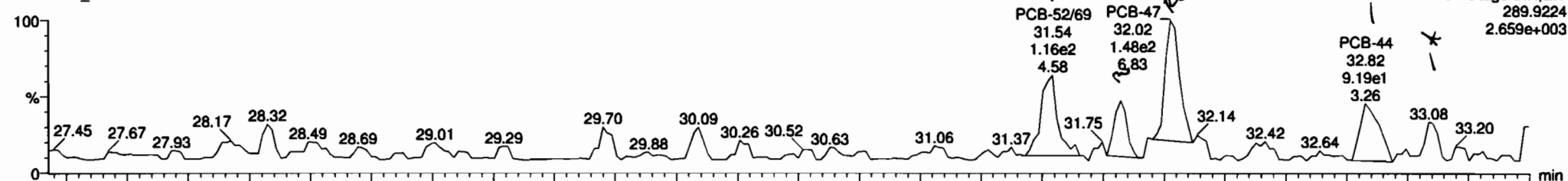
Last Altered: Thursday, November 07, 2019 12:36:40 Pacific Standard Time

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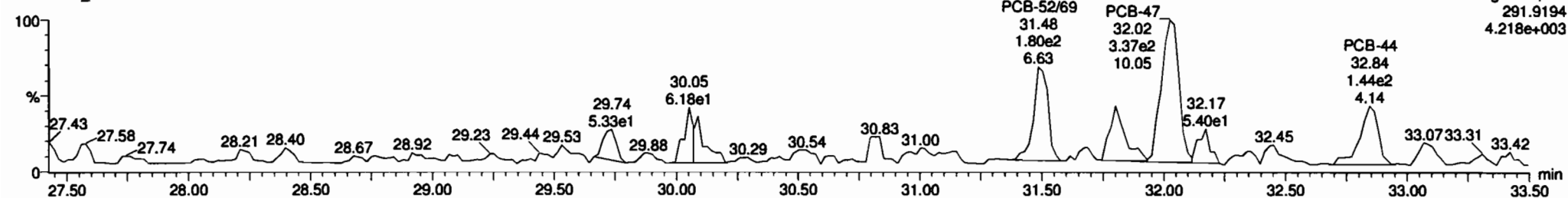
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PCB-50

191106K2\_7

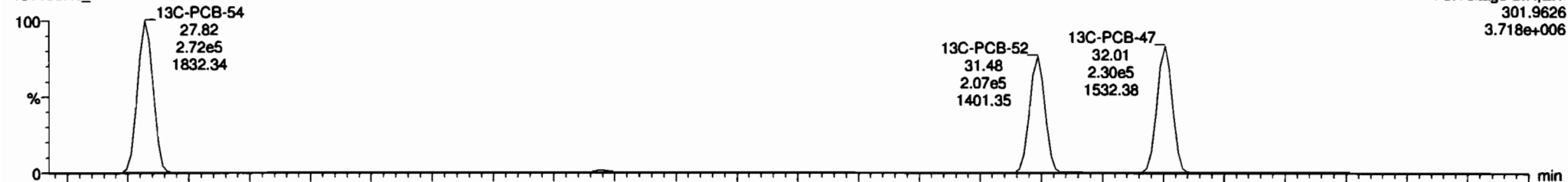


191106K2\_7

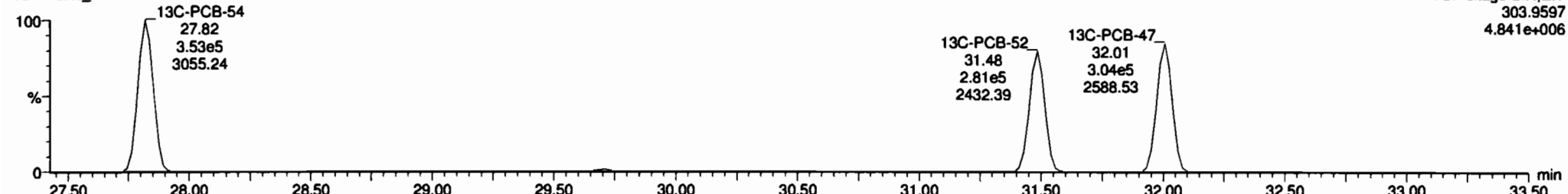


13C-PCB-52

191106K2\_7

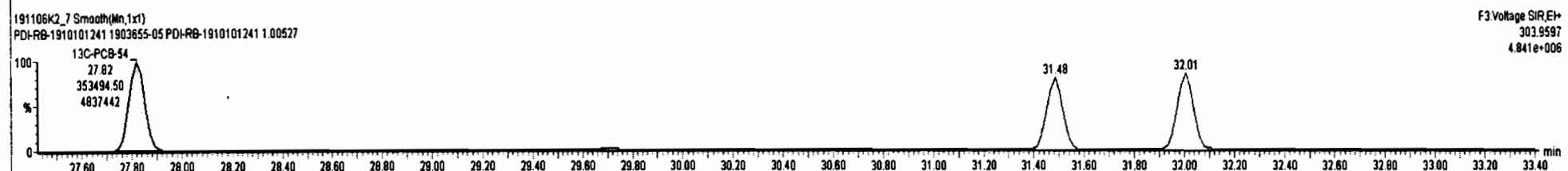
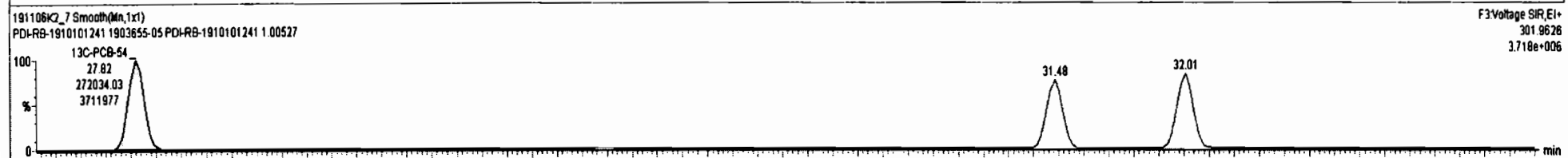
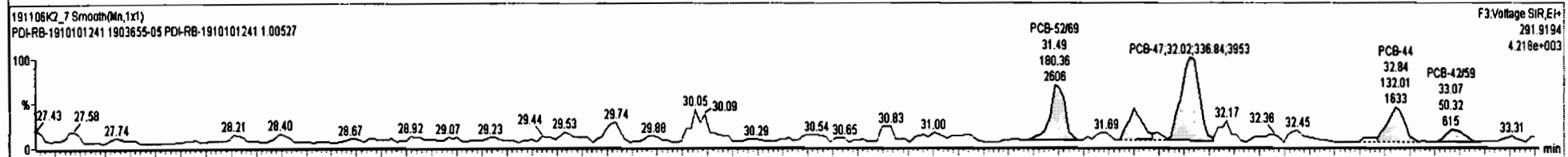
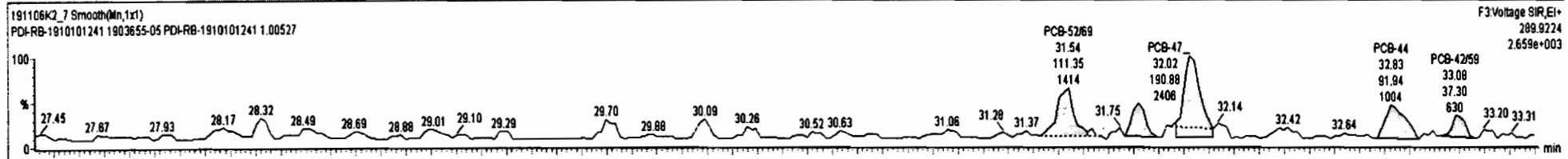


191106K2\_7



#	Name	Resp	RA	n/y	RRF	wtAveI	Prod.RT	RT	Prod.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
221	221 13C-PCB-178	2.86e5	0.44	NO	0.8746	1.005	46.12	46.12	0.988	0.988	NO	1734	87.2	1.36	
222	222 13C-PCB-79	5.94e5	0.76	NO	1.0454	1.005	38.01	38.02	0.967	0.968	NO	2118	106	1.98	
223	223 13C-PCB-178	2.86e5	0.44	NO	0.9749	1.005	46.12	46.12	0.924	0.924	NO	2140	108	1.63	
224	224 Total Mono-PCBs				1.0122	1.005	0.00		0.000		NO	0.0000		0.812	1.658
225	225 Total Di-PCBs				1.0532	1.005	0.00		0.000		NO	0.0000		8.43	4.973
226	226 2nd Function Tri-PCBs				0.9137	1.005	0.00		0.000		NO	0.0000		2.01	3.193
227	227 3rd Function Tri-PCBs				1.0563	1.005	0.00		0.000		NO	1.058		4.55	3.951

#	Name	Prod.RT	RT	m1 Resp	m2 Resp	* Ratio (Prod)	RA	n/y	EMPC	Conc.
36	PCB-52/69	31.52	31.54	1.113e2	1.804e2	0.770	0.62	YES	0.95549	0.00000
40	PCB-43/49	31.81	31.82	6.053e1	9.743e1	0.770	0.62	YES	0.60323	0.00000
41	PCB-47	32.03	32.02	1.908e2	3.368e2	0.770	0.57	YES	1.8827	0.00000
45	PCB-44	32.86	32.83	9.194e1	1.320e2	0.770	0.70	NO	1.0970	1.0970
46	PCB-42/59	33.08	33.08	3.730e1	5.032e1	0.770	0.74	NO	0.34021	0.34021
47	PCB-41/64/71/72	33.70	33.70	1.802e2	1.379e2	0.770	1.16	YES	0.84070	0.00000

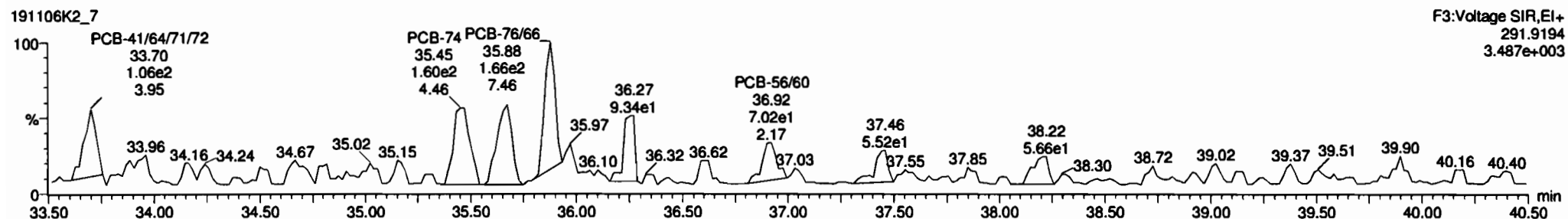
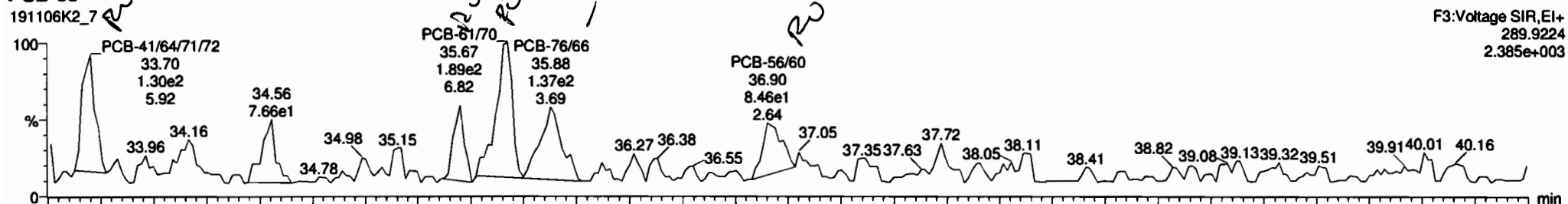


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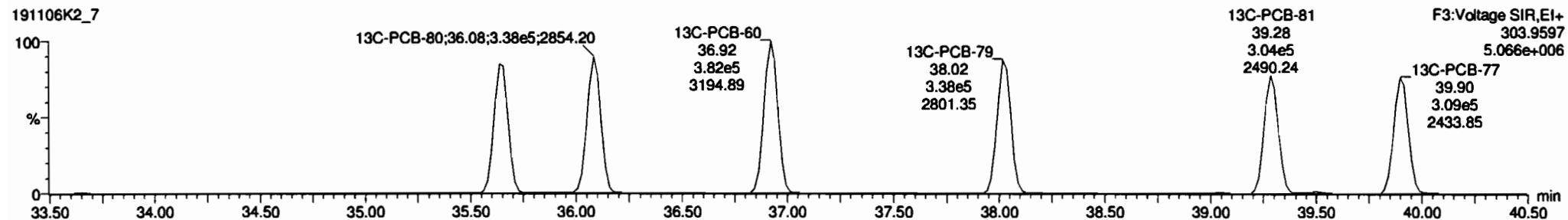
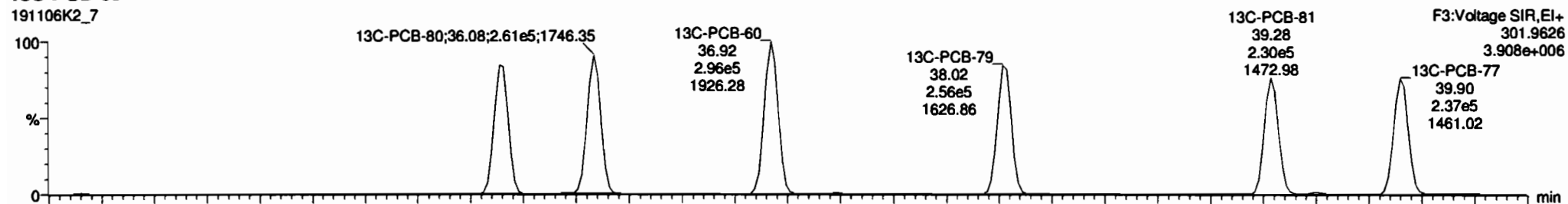
Last Altered: Thursday, November 07, 2019 12:36:40 Pacific Standard Time  
 Printed: Thursday, November 07, 2019 12:41:35 Pacific Standard Time

Name: 191106K2\_7, Date: 07-Nov-2019, Time: 06:26:36, ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

**PCB-68**

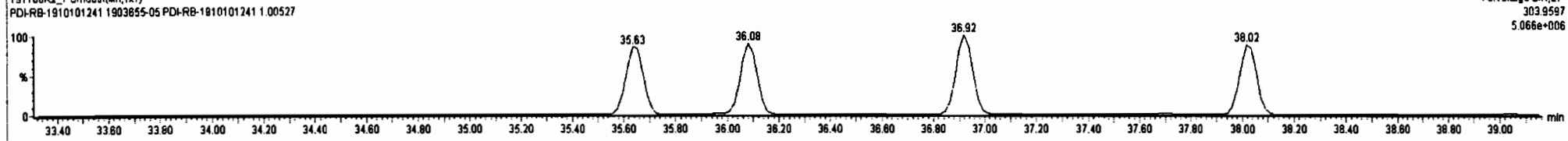
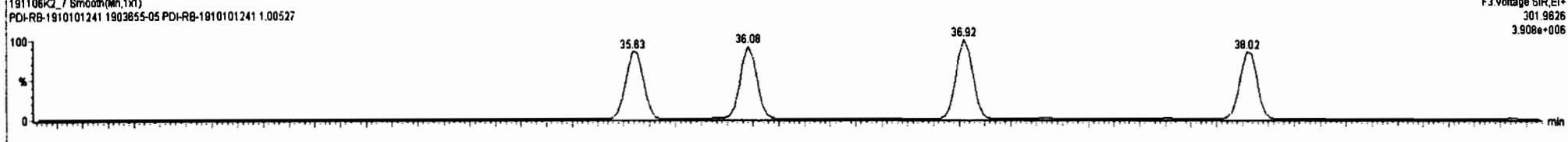
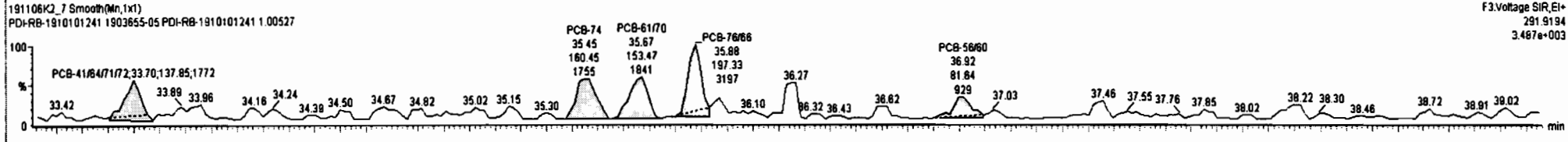
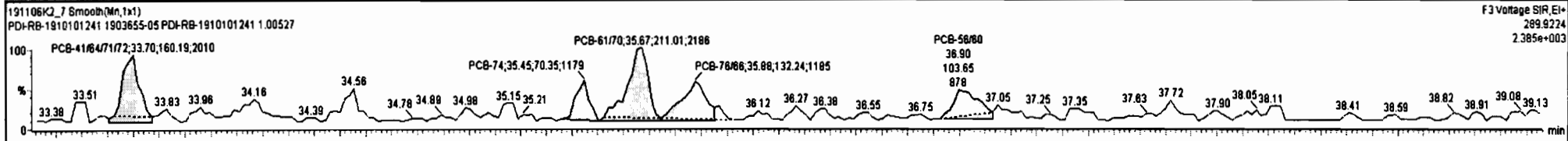


**13C-PCB-60**



#	Name	Resp	RA	nly	RRF	whVol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
221	13C-PCB-178	2.86e5	0.44	NO	0.9746	1.005	46.12	46.12	0.988	0.988	NO	1734	87.2	1.36	
222	13C-PCB-78	5.94e5	0.76	NO	1.0454	1.005	38.01	38.02	0.967	0.968	NO	2118	106	1.98	
223	13C-PCB-178	2.86e5	0.44	NO	0.9749	1.005	46.12	46.12	0.924	0.924	NO	2140	106	1.63	
224	Total Mono-PCBs				1.0122	1.005	0.00		0.000		NO	0.0000		0.612	1.658
225	Total Di-PCBs				1.0592	1.005	0.00		0.000		NO	0.0000		8.43	4.973
226	2nd Function Tri-PCBs				0.9137	1.005	0.00		0.000		NO	0.0000		2.01	3.183
227	3rd Function Tri-PCBs				1.0583	1.005	0.00		0.000		NO	1.058		4.55	3.951

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	*Ratio (Pred)	RA	nly	EMPC	Conc.
1	38 PCB-5269	31.52	31.54	1.113e2	1.804e2	0.770	0.62	YES	0.95549	0.00000
2	40 PCB-4349	31.81	31.82	6.053e1	9.743e1	0.770	0.62	YES	0.60323	0.00000
3	41 PCB-47	32.03	32.02	1.909e2	3.369e2	0.770	0.57	YES	1.8827	0.00000
4	45 PCB-44	32.86	32.83	9.194e1	1.320e2	0.770	0.70	NO	1.0970	1.0970
5	46 PCB-4259	33.08	33.08	3.730e1	5.032e1	0.770	0.74	NO	0.34021	0.34021
6	47 PCB-4164/172	33.70	33.70	1.602e2	1.379e2	0.770	1.16	YES	0.84070	0.00000



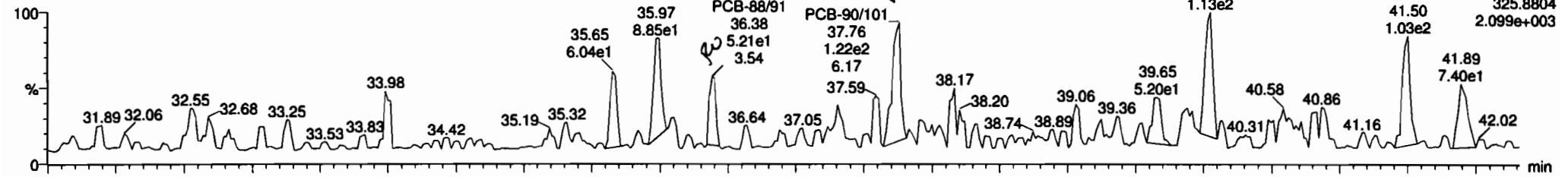
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Printed: Thursday, November 07, 2019 12:41:35 Pacific Standard Time

Name: 191106K2\_7, Date: 07-Nov-2019, Time: 06:26:36, ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

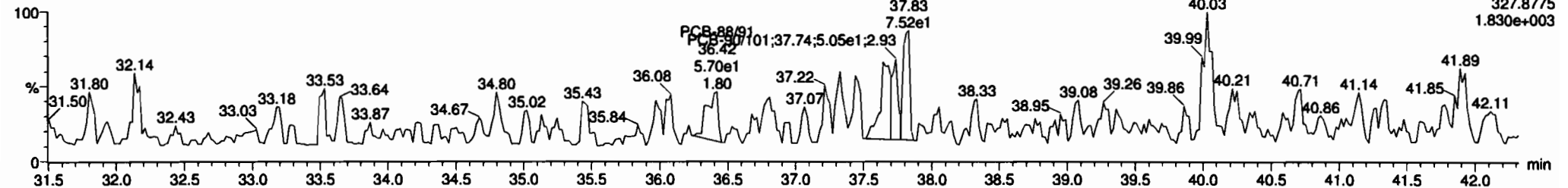
PCB-104

191106K2\_7



F3:Voltage SIR,EI+  
325.8804  
2.099e+003

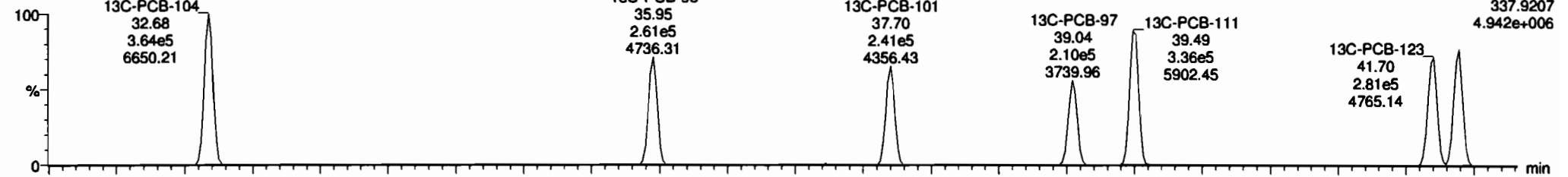
191106K2\_7



F3:Voltage SIR,EI+  
327.8775  
1.830e+003

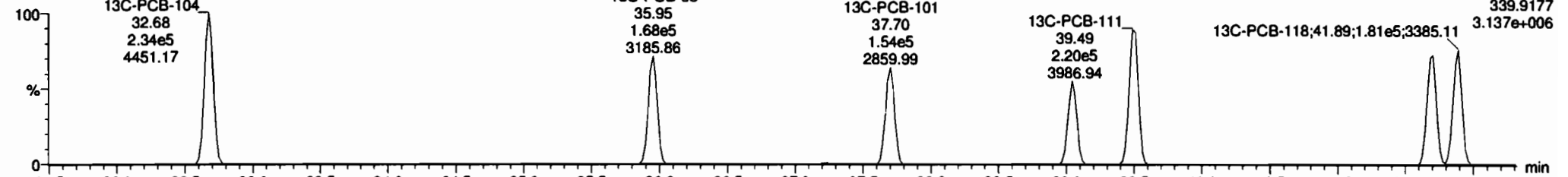
13C-PCB-104

191106K2\_7



F3:Voltage SIR,EI+  
337.9207  
4.942e+006

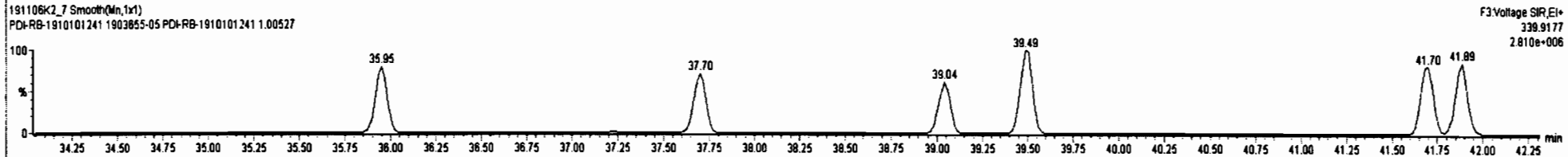
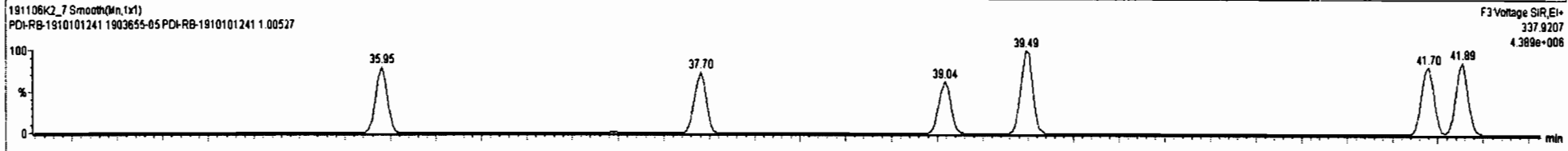
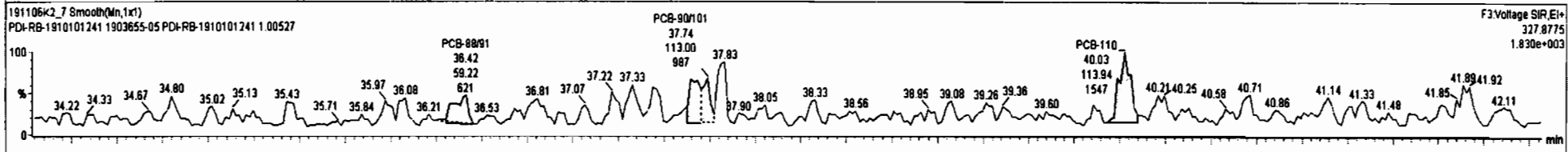
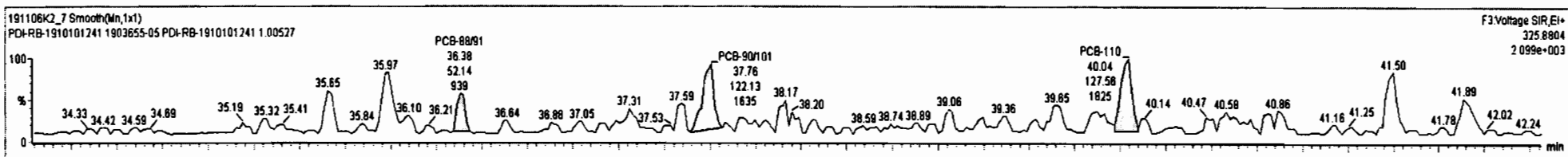
191106K2\_7



F3:Voltage SIR,EI+  
339.9177  
3.137e+006

#	Name	Resp	RA	nly	RFF	retVol	Pred.RT	RT	Pred.R...	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
228	228 3rd Function Penta-PCBs				1.1194	1.005	0.00		0.000		NO	0.0000		11.8	2.942
230	230 4th Function Penta-PCBs				1.1112	1.005	0.00		0.000		NO				1.79
231	231 3rd Function Hexa-PCBs				0.7739	1.005	0.00		0.000		NO				4.16
232	232 4th Function Hexa-PCBs				0.9719	1.005	0.00		0.000		NO				5.25
233	233 Total Hepta-PCBs				1.2636	1.005	0.00		0.000		NO				5.58
234	234 4th Function Octa-PCBs				0.8863	1.005	0.00		0.000		NO				1.68
235	235 5th Function Octa-PCBs				1.1967	1.005	0.00		0.000		NO	0.0000		0.505	0.6061

#	Name	Pred.RT	RT	Int Resp	Int2 Resp	1st Ratio (Pred)	RA	nly	EMPC	Conc.
1	71 PCB-88/91	36.38	36.38	5.214e1	5.822e1	1.560	0.88	YES	0.44618	0.00000
2	75 PCB-90/101	37.72	37.76	1.221e2	1.130e2	1.560	1.08	YES	1.0704	0.00000
3	87 PCB-110	40.04	40.04	1.276e2	1.139e2	1.560	1.12	YES	0.82538	0.00000



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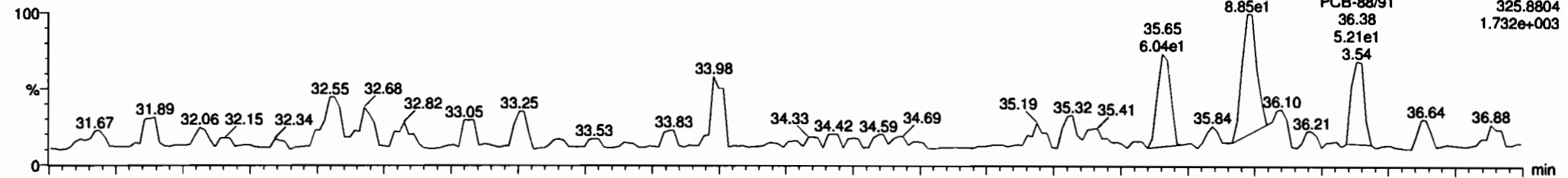
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Printed: Thursday, November 07, 2019 12:41:35 Pacific Standard Time

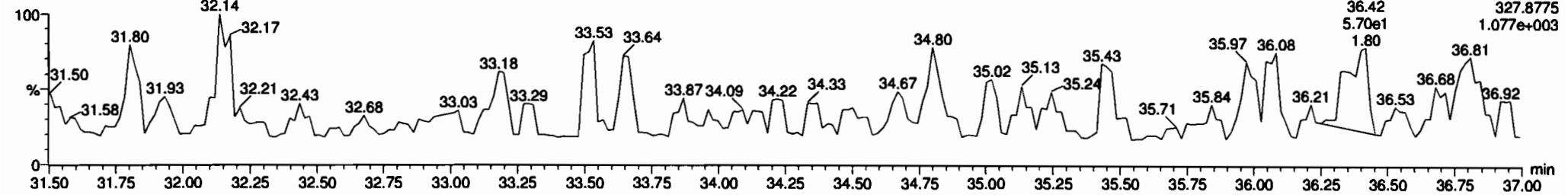
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**PCB-96**

191106K2\_7

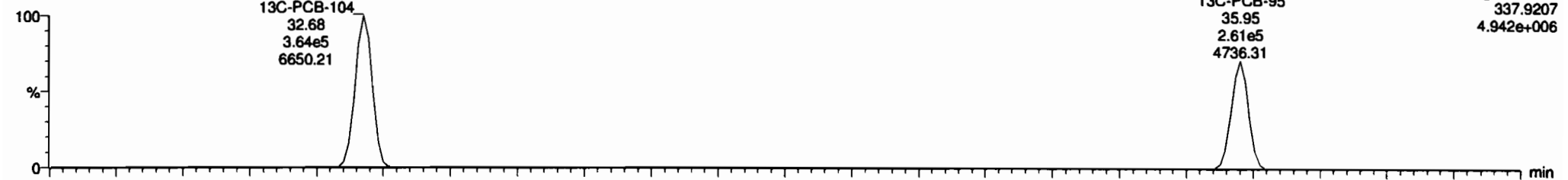


191106K2\_7

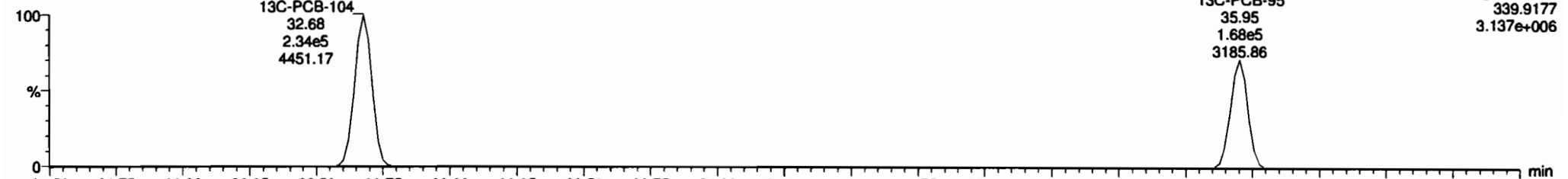


**13C-PCB-95**

191106K2\_7



191106K2\_7



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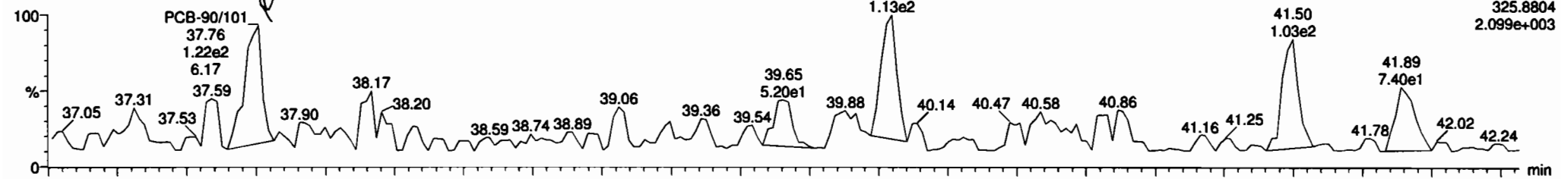
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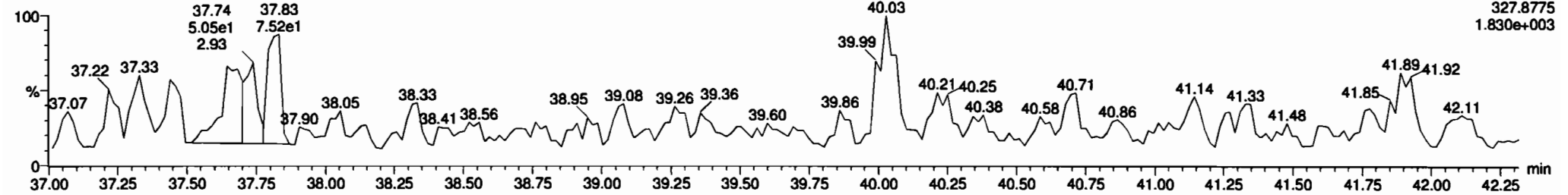
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PCB-119

191106K2\_7

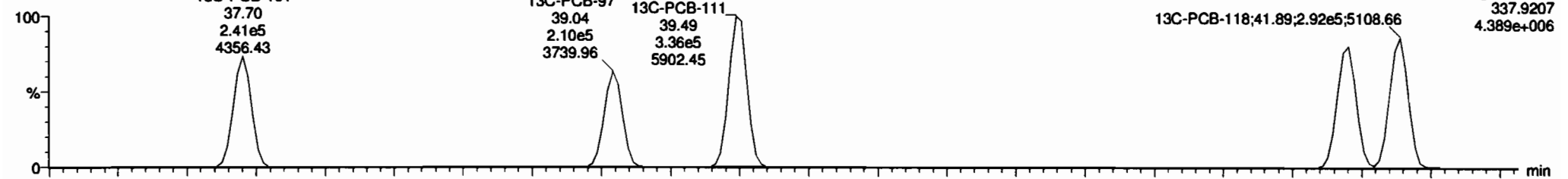


191106K2\_7

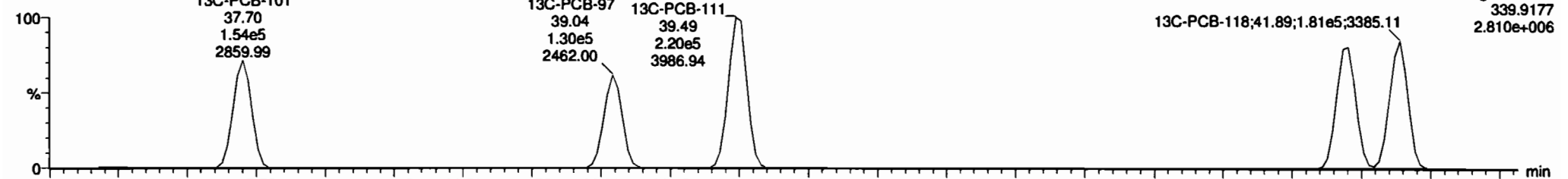


13C-PCB-111

191106K2\_7



191106K2\_7



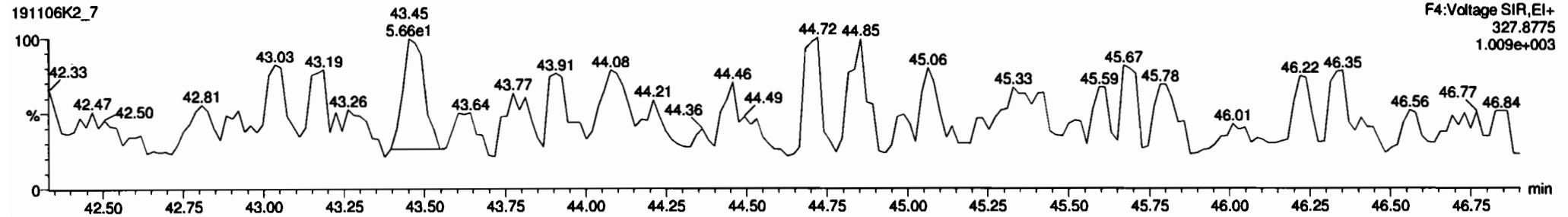
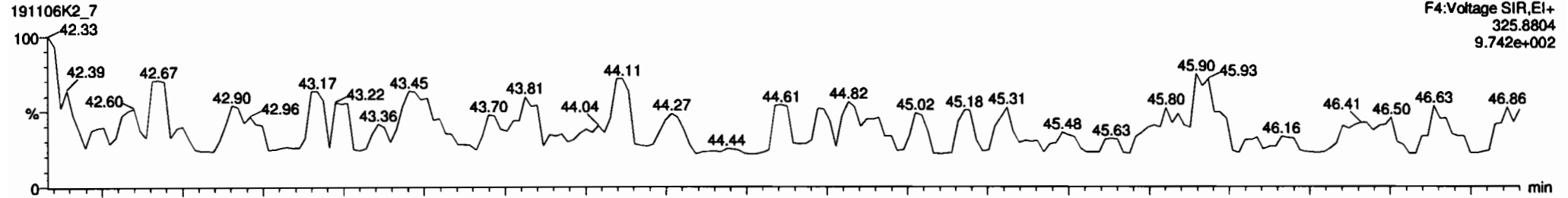


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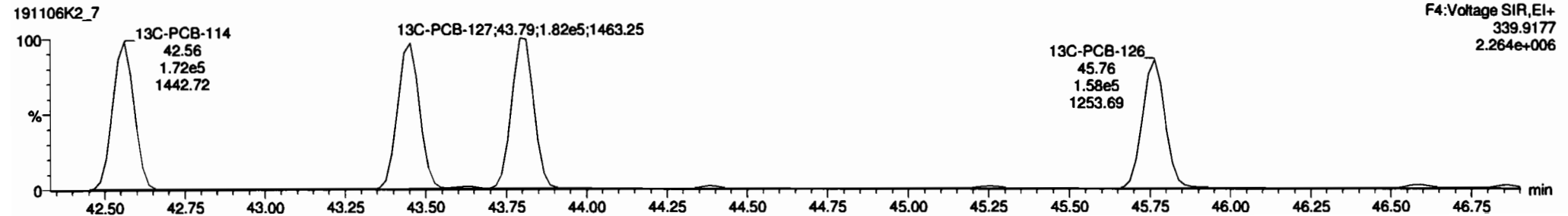
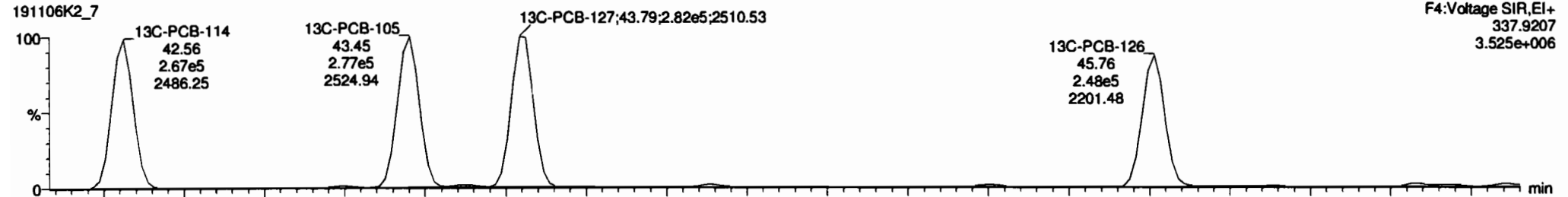
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**PCB-114**



**13C-PCB-114**



Dataset: Untitled

Last Altered: Thursday, November 07, 2019 12:36:40 Pacific Standard Time

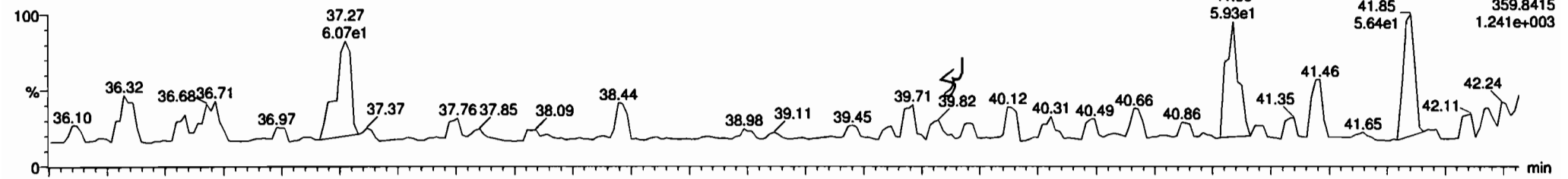
Printed: Thursday, November 07, 2019 12:41:35 Pacific Standard Time

Name: 191106K2\_7, Date: 07-Nov-2019, Time: 06:26:36, ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

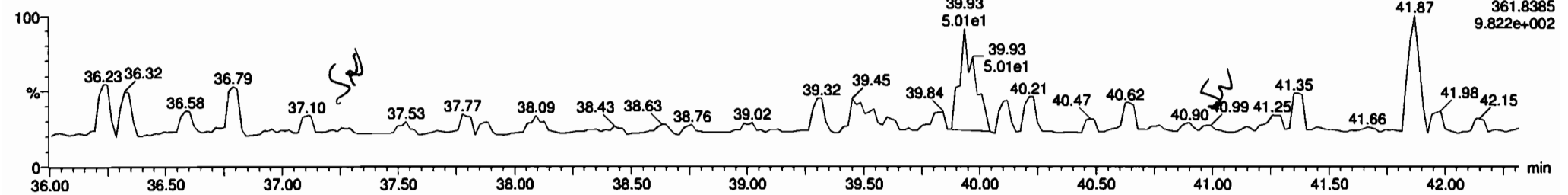
*Handwritten signature and date:*  
11.10.19.1

**PCB-155**

191106K2\_7

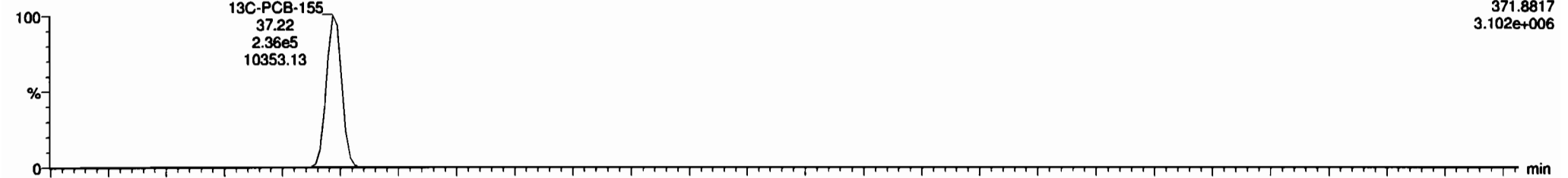


191106K2\_7

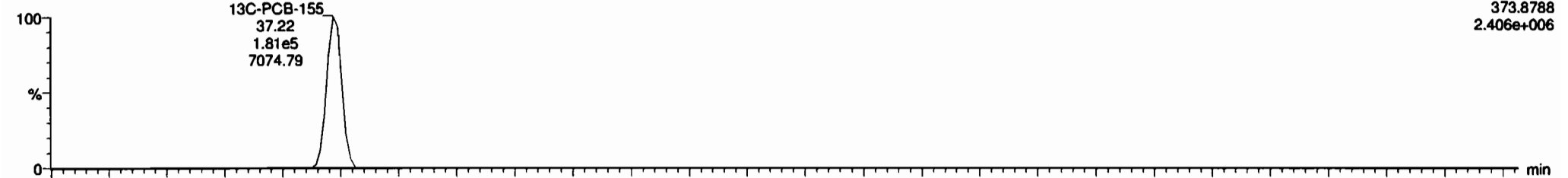


**13C-PCB-155**

191106K2\_7

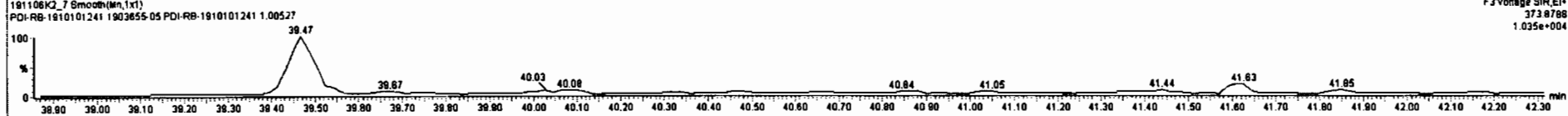
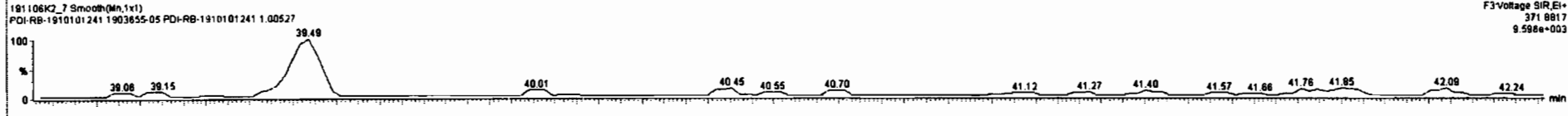
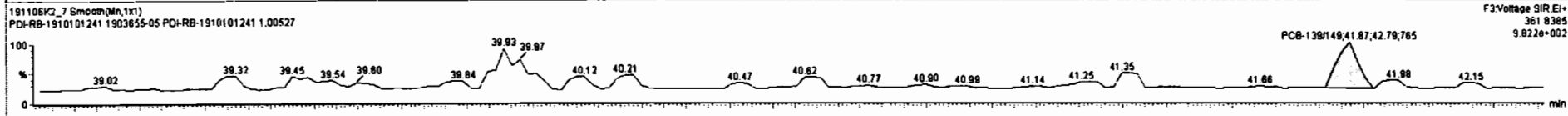
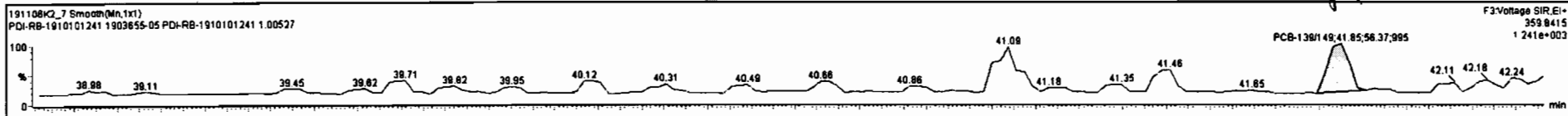


191106K2\_7



#	Name	Resp	RA	rvy	RRF	valvol	Pred.RT	RT	Pred.R.	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
105	105 PCB-151			NO	0.8320	1.005	41.16		1.106		YES			0.362	
106	106 PCB-135			NO	0.7159	1.005	41.84		1.111		YES			0.338	
107	107 PCB-144			NO	0.8698	1.005	41.44		1.114		YES			0.363	
108	108 PCB-147			NO	0.8610	1.005	41.59		1.118		YES			0.368	
109	109 PCB-138/148	0.8248	1.32	NO	0.7985	1.005	41.89	41.88	1.127	1.128	NO	0.8118		0.162	0.8418
110	110 PCB-140			NO	0.6273	1.005	42.11		1.132		YES			0.385	
111	111 PCB-134/143			NO	0.7333	1.005	42.05		0.975		YES			0.322	
112	112 PCB-131/133			NO	0.7802	1.005	42.81		0.982		YES			0.289	
113	113 PCB-142			NO	0.7080	1.005	42.87		0.985		YES			0.333	
114	114 PCB-148/165			NO	0.9584	1.005	43.22		0.981		YES			0.248	

#	Name	Pred.RT	RT	ret Resp	in2 Resp	1+ Ratio (Pred)	RA	rvy	EMPC	Conc.
1										

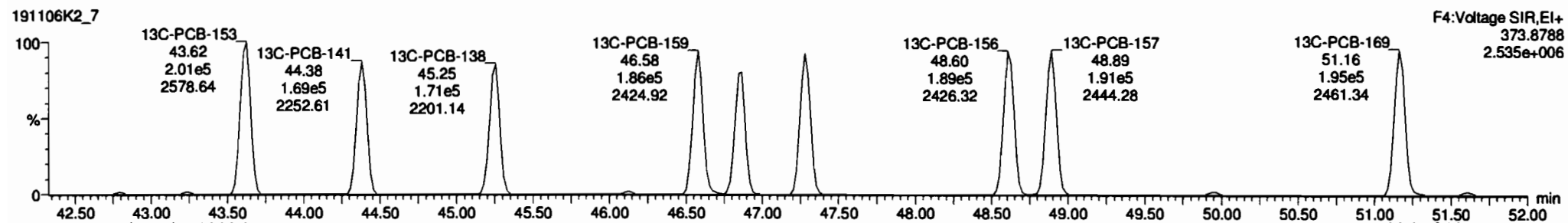
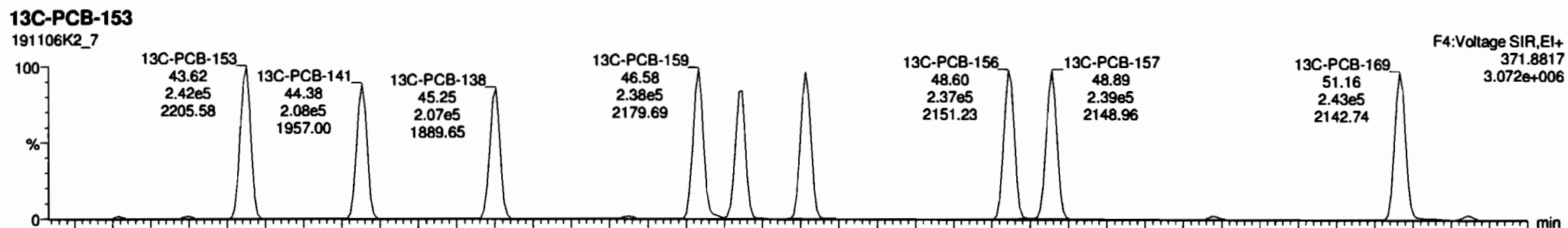
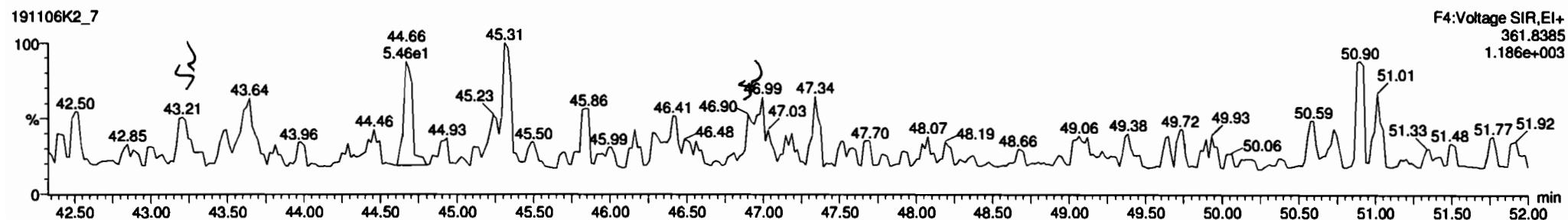
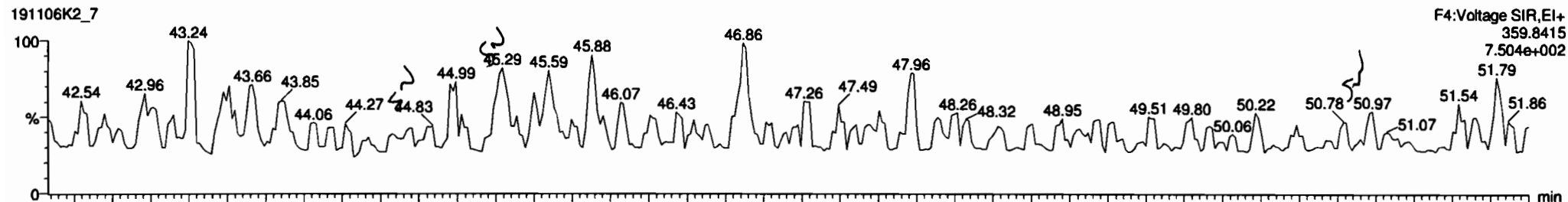


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Last Altered: Thursday, November 07, 2019 12:36:40 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:41:35 Pacific Standard Time

Name: 191106K2\_7, Date: 07-Nov-2019, Time: 06:26:36, ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

PCB-134/143



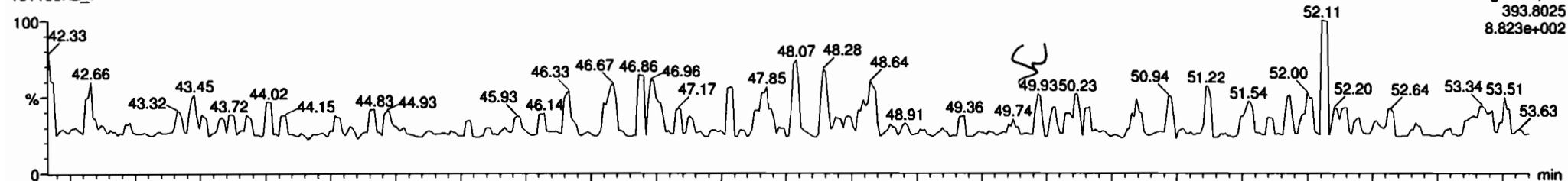
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Last Altered: Thursday, November 07, 2019 12:36:40 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:41:35 Pacific Standard Time

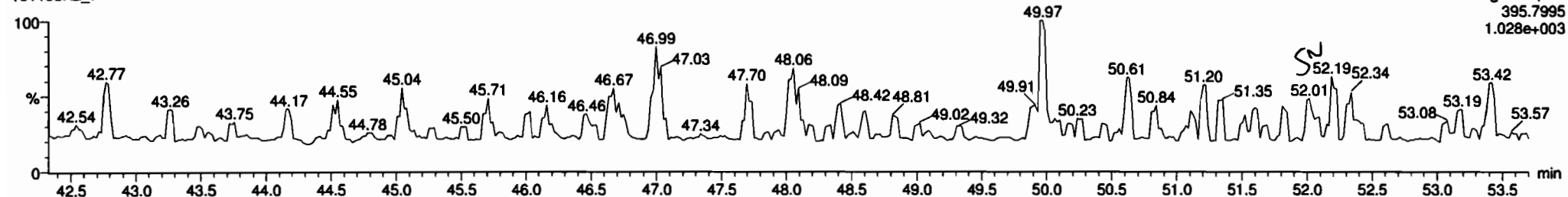
Name: 191106K2\_7, Date: 07-Nov-2019, Time: 06:26:36, ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

PCB-188

191106K2\_7

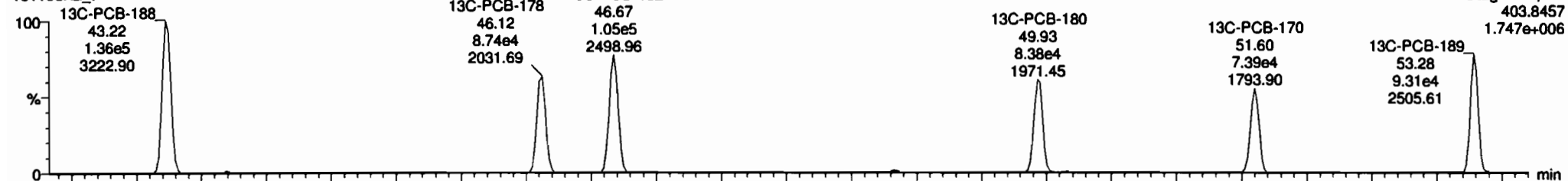


191106K2\_7

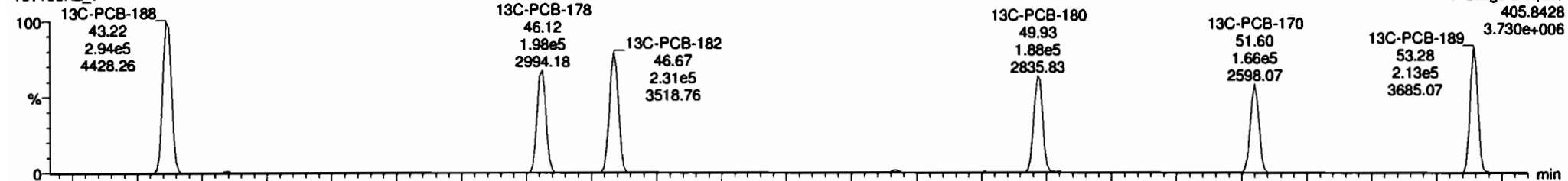


13C-PCB-188

191106K2\_7



191106K2\_7



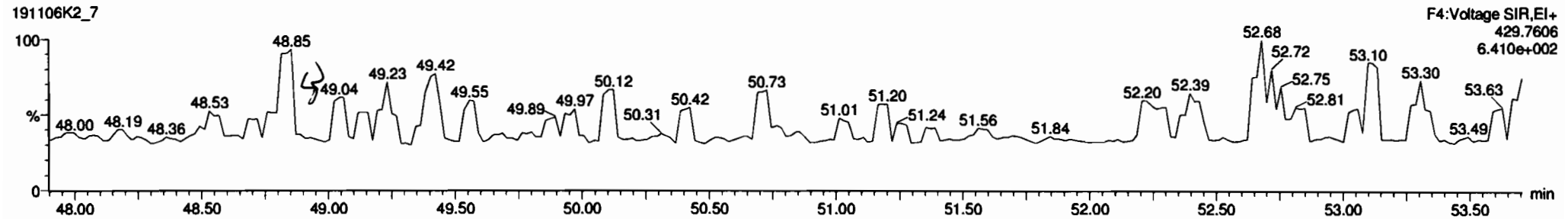
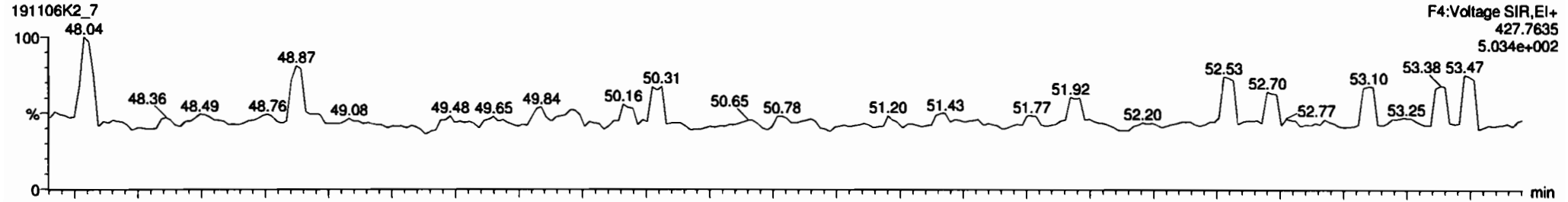
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Last Altered: Thursday, November 07, 2019 12:36:40 Pacific Standard Time

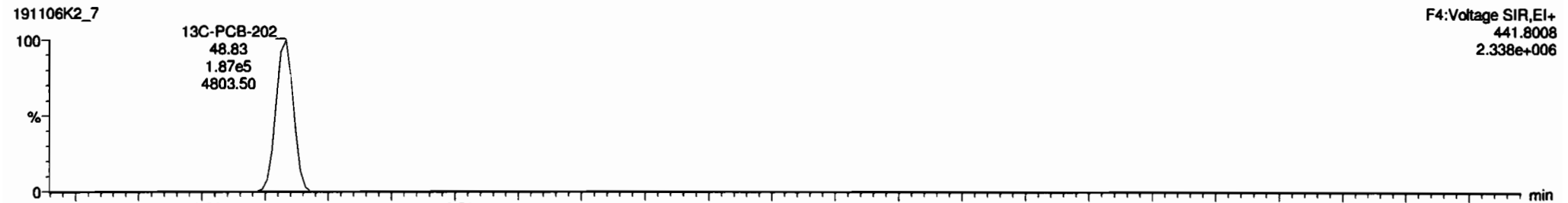
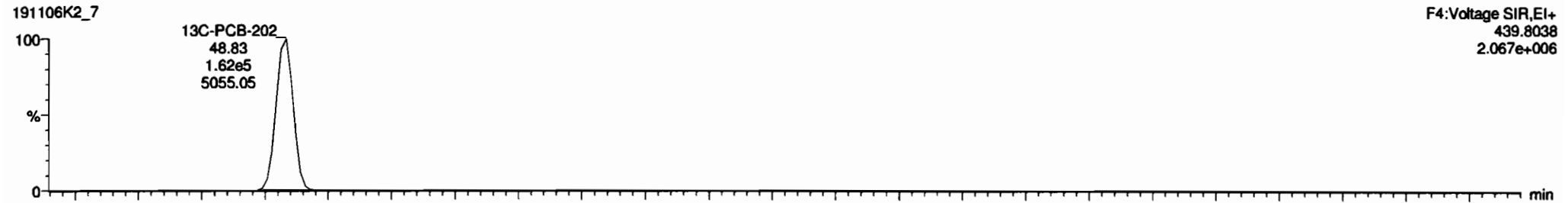
Printed: Thursday, November 07, 2019 12:41:35 Pacific Standard Time

Name: 191106K2\_7, Date: 07-Nov-2019, Time: 06:26:36, ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

**PCB-202**



**13C-PCB-202**



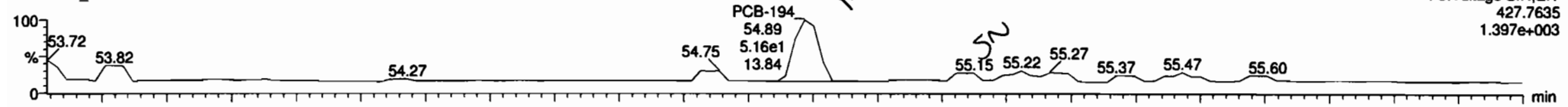
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Last Altered: Thursday, November 07, 2019 12:36:40 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:41:35 Pacific Standard Time

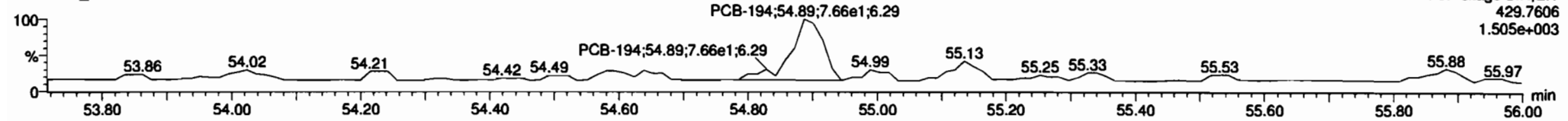
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**PCB-195**

191106K2\_7

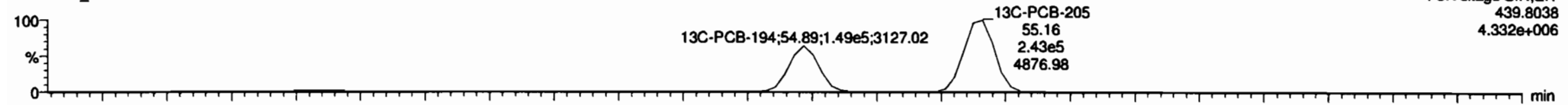


191106K2\_7

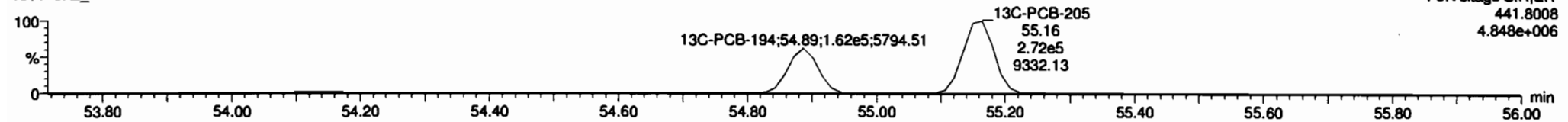


**13C-PCB-194**

191106K2\_7

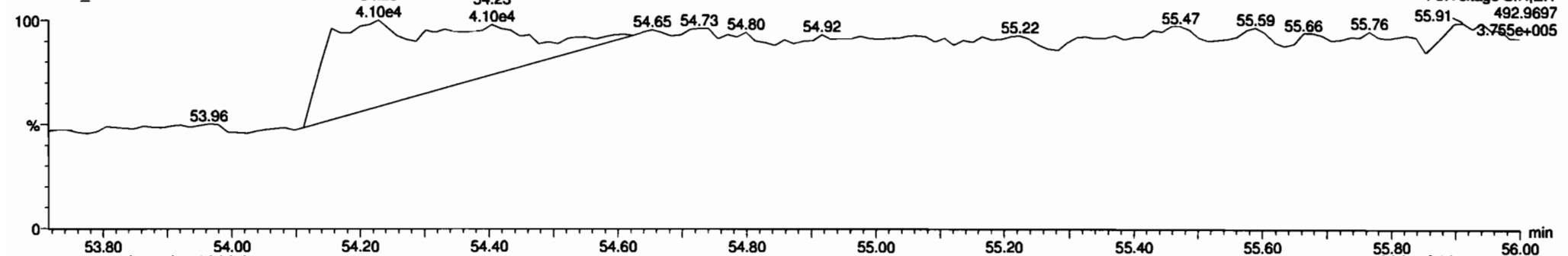


191106K2\_7



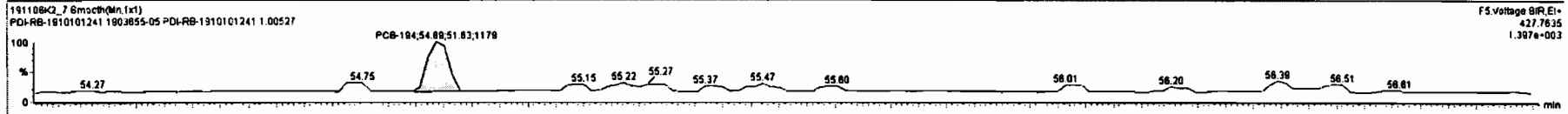
**PFK5**

191106K2\_7

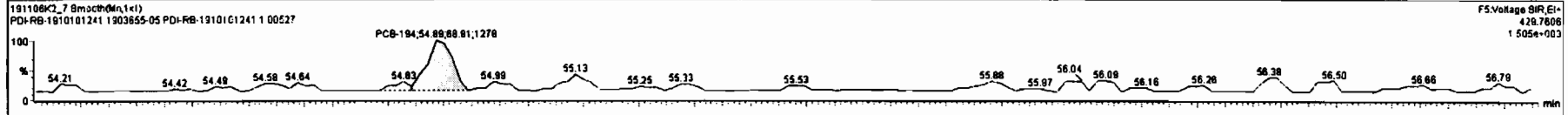


#	Name	Resp	RA	nly	RRF	ng/dml	Pred RT	RT	Pred R	RRT	RRT Fall	Conc.	%Rec	DL	BMP
221	231 3rd Function Hexa-PCBs				0.7739	1.005	0.00		0.000		NO			4.16	
222	232 4th Function Hexa-PCBs				0.9719	1.005	0.00		0.000		NO			5.25	
223	233 Total Hepta-PCBs				1.2636	1.005	0.00		0.000		NO			5.58	
224	234 4th Function Octa-PCBs				0.8883	1.005	0.00		0.000		NO			1.88	
225	235 4th Function Deca-PCBs				1.1887	1.005	0.00		0.000		NO	6.0000		0.850	0.0001
226	235 Total Nona-PCBs				0.8446	1.005	0.00		0.000		NO			0.327	
227	237 Deca-CB				0.9426	1.005	0.00		0.000		NO			0.148	
228	238 Total PCBs														
229	239 Total Mono-Arillopenes														
240	240 Total Di-Arillopenes														

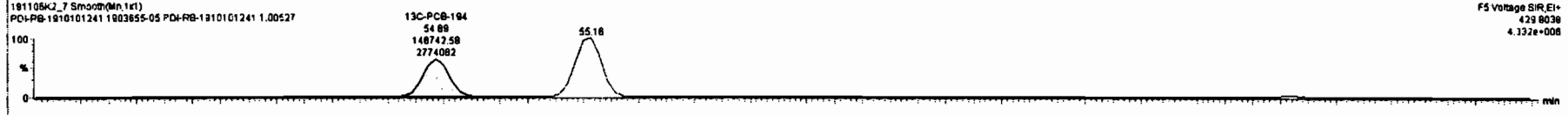
#	Name	Pred RT	RT	nt Resp	ng Resp	1 <sup>st</sup> Ratio (Pred)	RA	nly	BMP	Conc.
1	163 PCB-194	54.80	54.88	5.163e1	6.881e1	0.880	0.75	YES	0.80813	0.00000



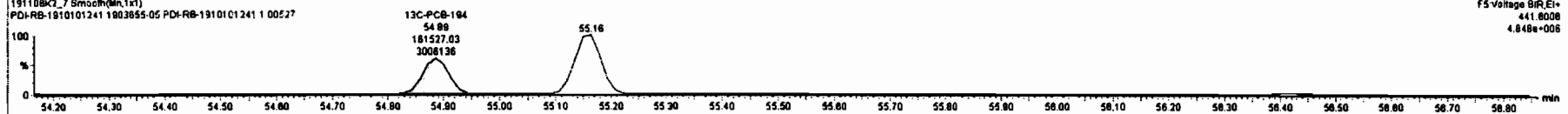
F5 Voltage SIR.EI+  
427.7635  
1.387e+003



F5 Voltage SIR.EI+  
428.7606  
1.505e+003



F5 Voltage SIR.EI+  
429.8038  
4.322e+008



F5 Voltage SIR.EI+  
441.8008  
4.848e+008



Dataset: Untitled

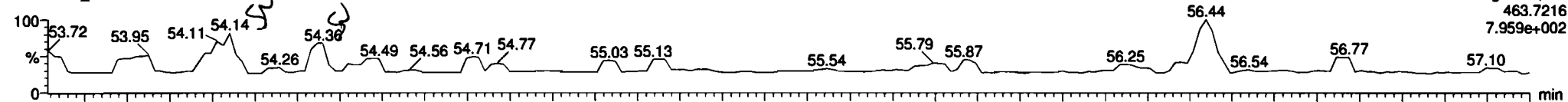
Last Altered: Thursday, November 07, 2019 12:36:40 Pacific Standard Time

Printed: Thursday, November 07, 2019 12:41:35 Pacific Standard Time

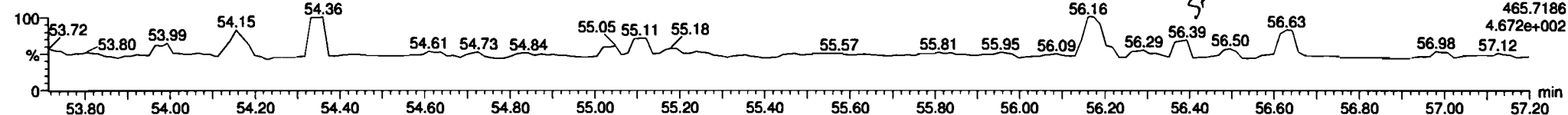
Name: 191106K2\_7, Date: 07-Nov-2019, Time: 06:26:36, ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

**PCB-208**

191106K2\_7

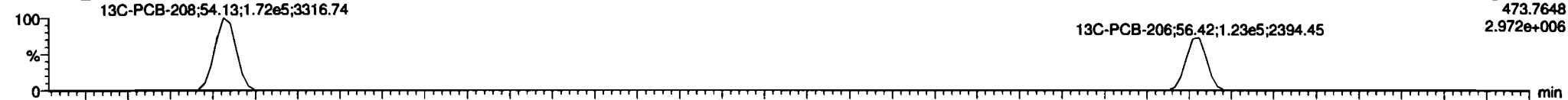


191106K2\_7

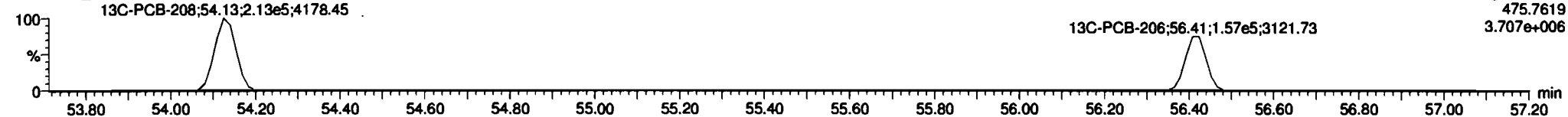


**13C-PCB-208**

191106K2\_7

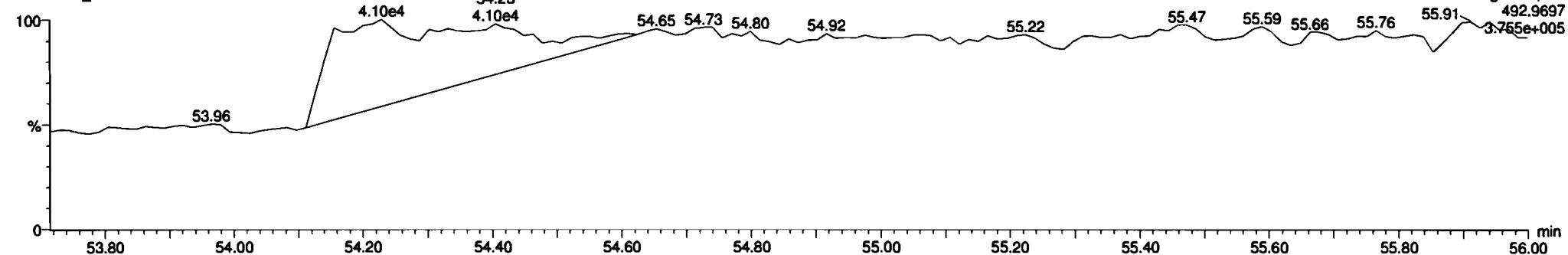


191106K2\_7



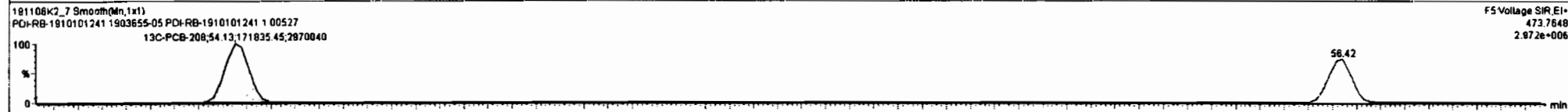
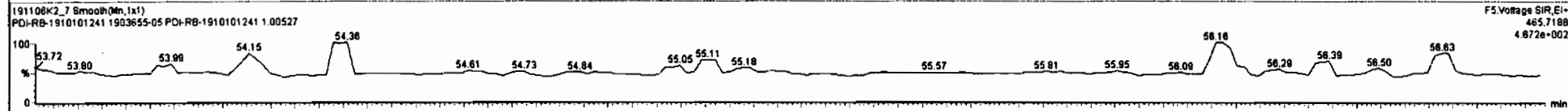
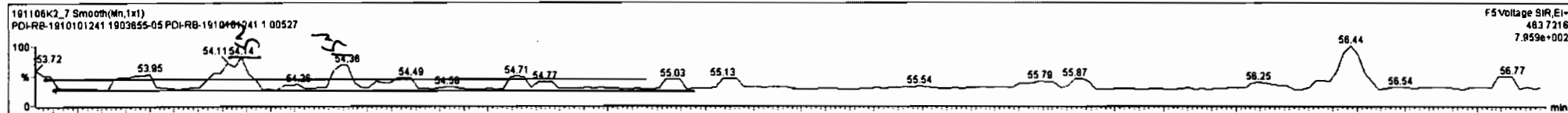
**PFK5**

191106K2\_7



#	Name	Resp	RA	n/y	RRF	wAnd	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
231	3rd Function Hexa-PCBs				0.7738	1.005	0.00		0.000		NO			4.18	
232	4th Function Hexa-PCBs				0.9718	1.005	0.00		0.000		NO			5.25	
233	Total Hepta-PCBs				1.2636	1.005	0.00		0.000		NO			5.58	
234	4th Function Octa-PCBs				0.8863	1.005	0.00		0.000		NO			1.88	
235	5th Function Octa-PCBs				1.1867	1.005	0.00		0.000		NO	0.0000		0.505	0.6081
236	Total Nona-PCBs				0.8448	1.005	0.00		0.000		NO			0.327	
237	Deca-CB				0.9426	1.005	0.00		0.000		NO			0.149	
238	Total PCBs														
239	Total Mono-isotopes														
240	Total Di-isotopes														

#	Name	Pred.RT	RT	w1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1										



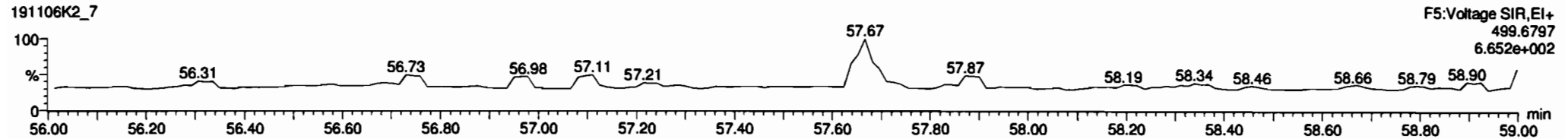
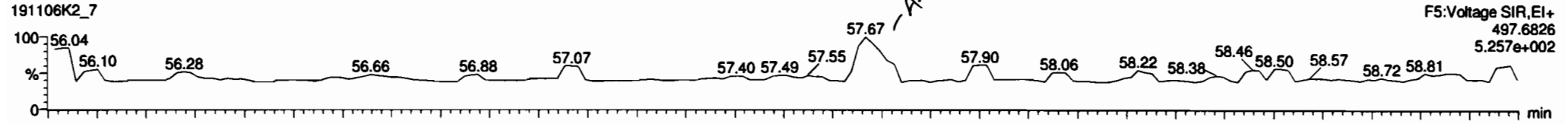
Ready 191106K2\_7 CAP NLM

Dataset: Untitled

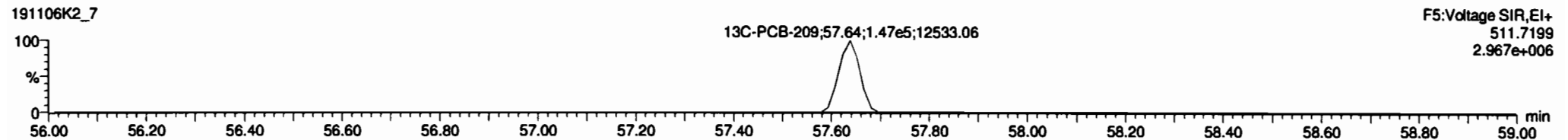
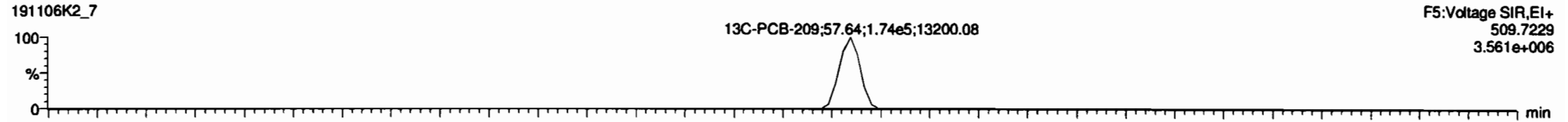
Last Altered: Thursday, November 07, 2019 12:36:40 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:41:35 Pacific Standard Time

Name: 191106K2\_7, Date: 07-Nov-2019, Time: 06:26:36, ID: 1903655-05 PDI-RB-1910101241 1.00527, Description: PDI-RB-1910101241

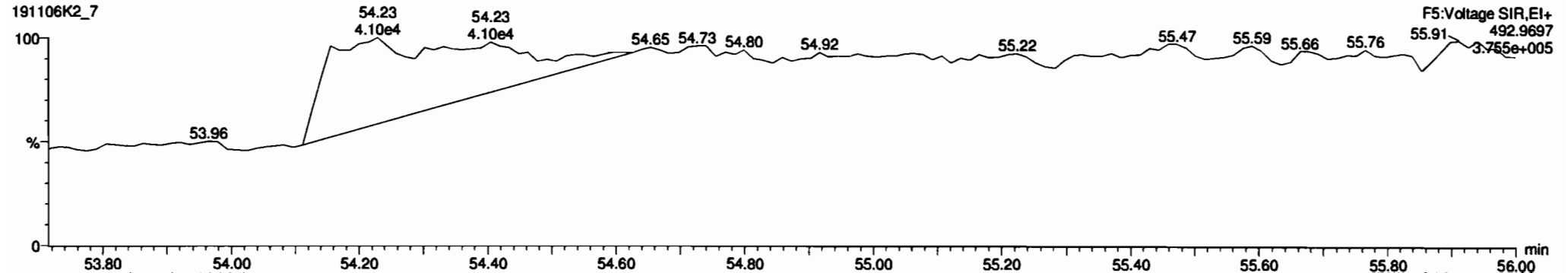
**PCB-209**



**13C-PCB-209**

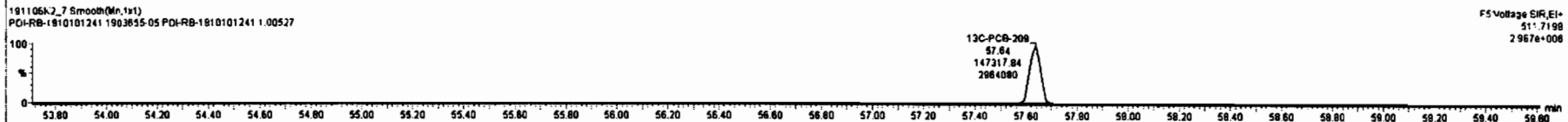
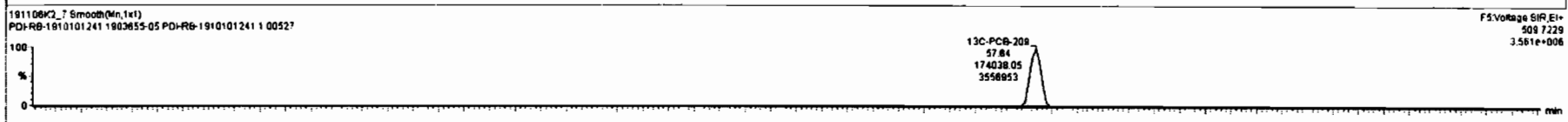
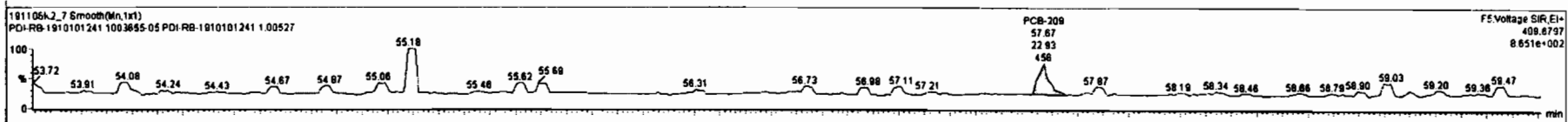
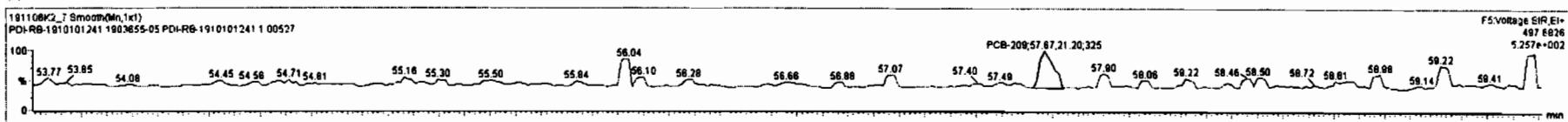


**PFK5**



#	Name	Resp	RA	nly	RFP	ndVal	Prod.RT	RT	Prod.R	RRT	RRT Fall	Conc	%Res	DL	SLPC
221	221 3rd Function Hexa-PCBs				0.7739	1.005	0.00	0.000		NO				4.16	
222	222 4th Function Hexa-PCBs				0.8719	1.005	0.00	0.000		NO				5.25	
223	223 Total Hepta-PCBs				1.2636	1.005	0.00	0.000		NO				5.58	
224	224 4th Function Octa-PCBs				0.8863	1.005	0.00	0.000		NO				1.68	
225	225 5th Function Octa-PCBs				1.1987	1.005	0.00	0.000		NO	0.0000		0.505	0.8081	
226	226 Total Nona-PCBs				0.9448	1.005	0.00	0.000		NO				0.327	
227	227 Dioxin-PCBs				0.8428	1.005	0.00	0.000		NO	0.8888		0.0430	0.2982	
228	228 Total PCBs														
229	229 Total Mono-Isotopes														
240	240 Total Di-Isotopes														

#	Name	Prod.RT	RT	m1 Resp	m2 Resp	1* Ratio (Prod)	RA	nly	SLPC	Conc
100	PCB-208	57.84	57.87	2.120e1	2.283e1	1.170	0.92	YES	0.25821	0.00000



## **CONFIRMATION**

Name	Resp	RA	RT	RRF	Conc	Rec
13C-1,2,3,4-TCDF	1.19e+07	0.78 y	15:35	1.00	199.9	-
13C-2,3,7,8-TCDF	1.01e+07	0.77 y	17:42	1.02	166.4	83.2
2,3,7,8-TCDF	3.64e+05	0.75 y	17:43	0.95	7.591	

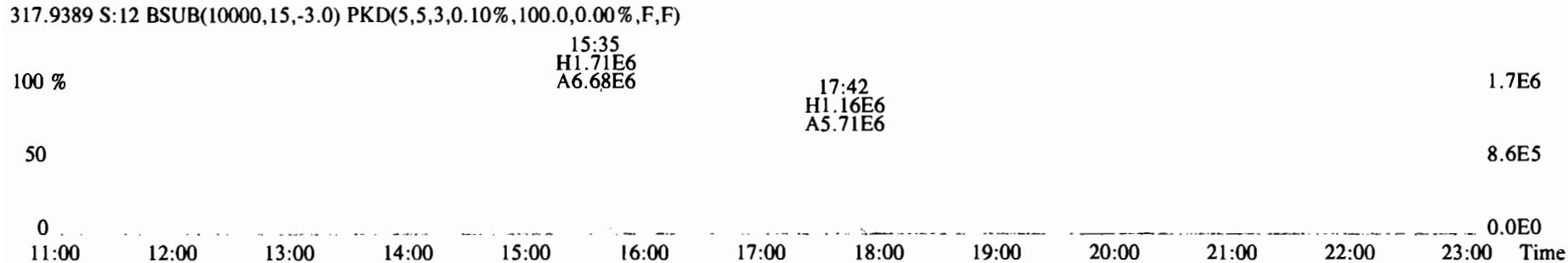
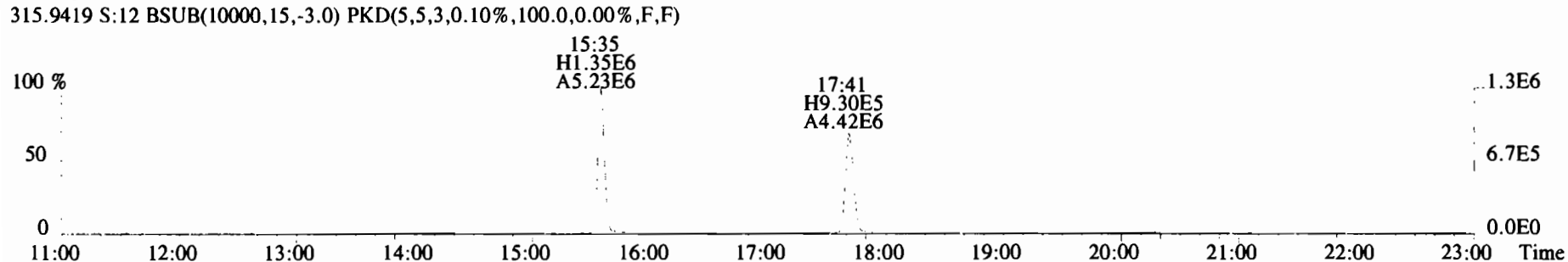
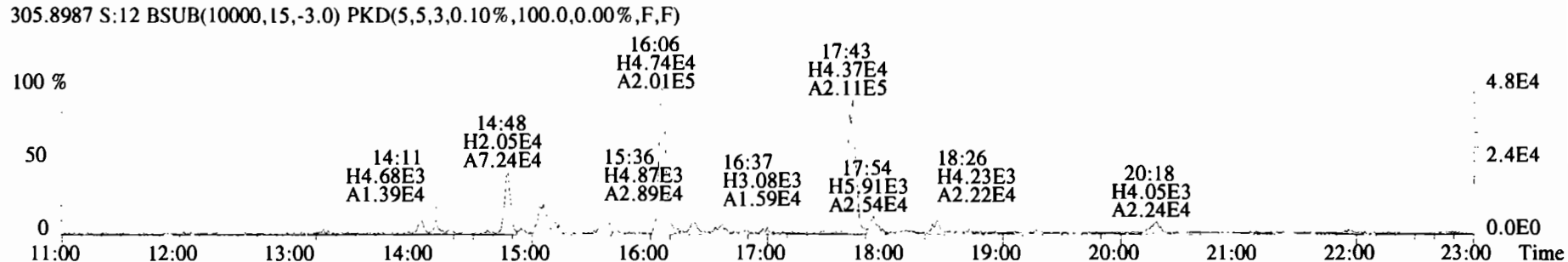
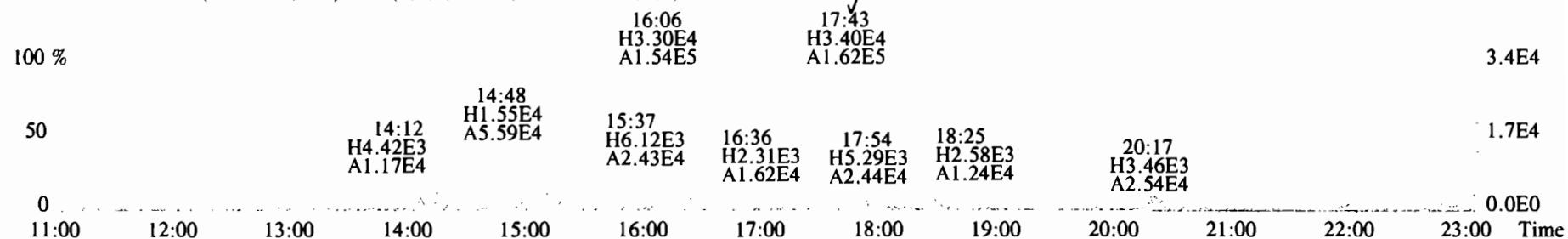
Integrations  
by  
Analyst: DB

Date: 1/3/20

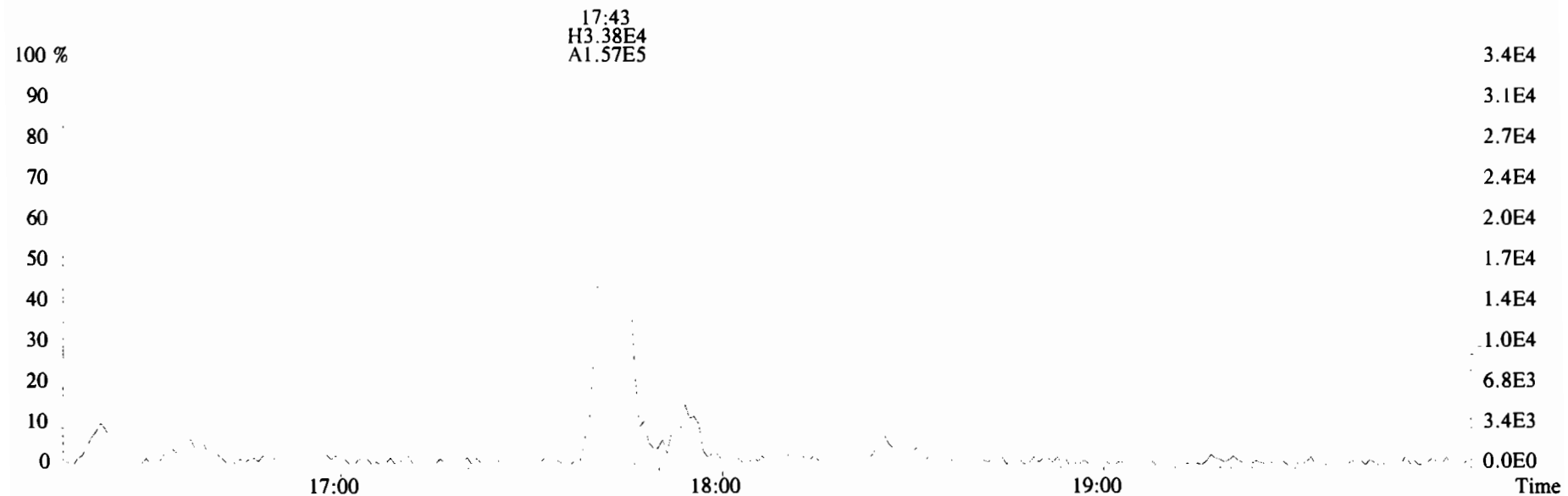
Reviewed  
by  
Analyst: ML

Date: 1/6/20

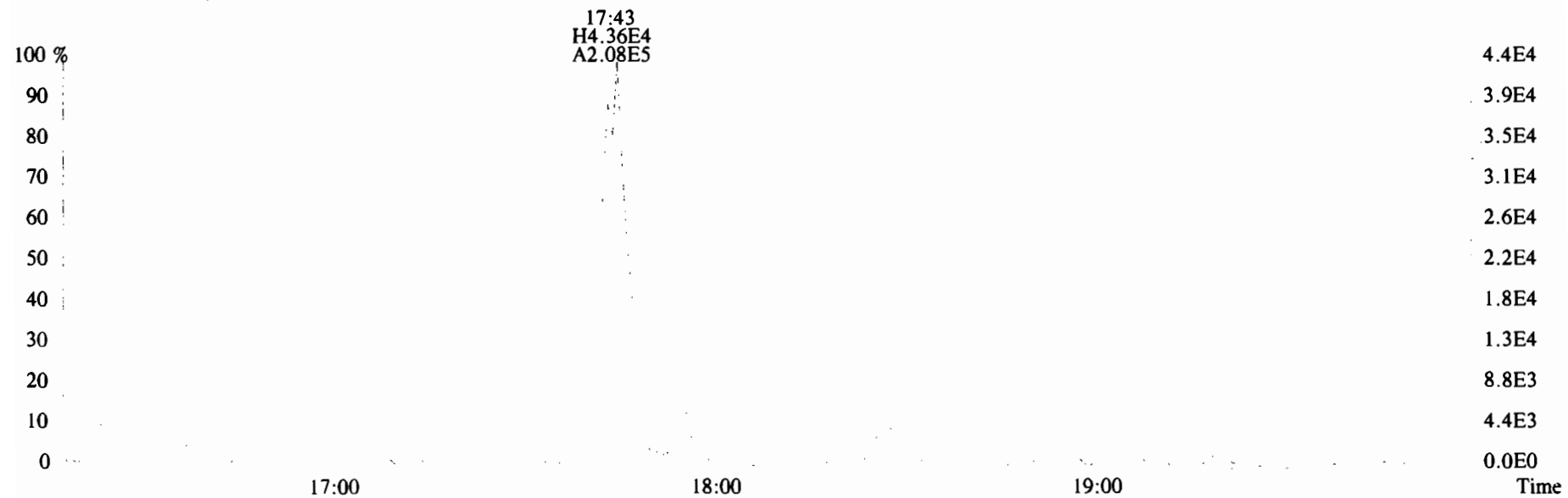
File:200102D1 #1-1682 Acq: 2-JAN-2020 19:16:13 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#12 File Text: Vista Analytical Laboratory VG7 Text: 1903655-01RE1 PDI-032SC-A-00-01-191010 12.22 Exp:TCDF\_DB225  
 303.9016 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:200102D1 #1-1682 Acq: 2-JAN-2020 19:16:13 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#12 File Text: Vista Analytical Laboratory\_VG7 Text: 1903655-01REI PDI-032SC-A-00-01-191010 12.22 Exp:TCDF\_DB225  
 303.9016 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

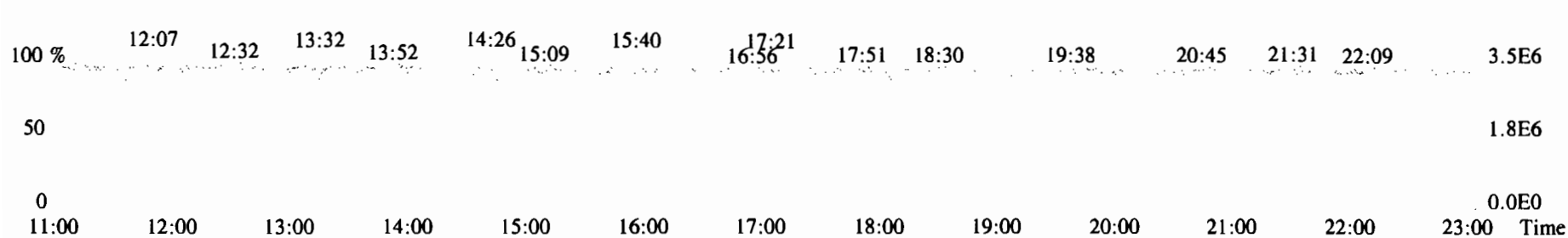
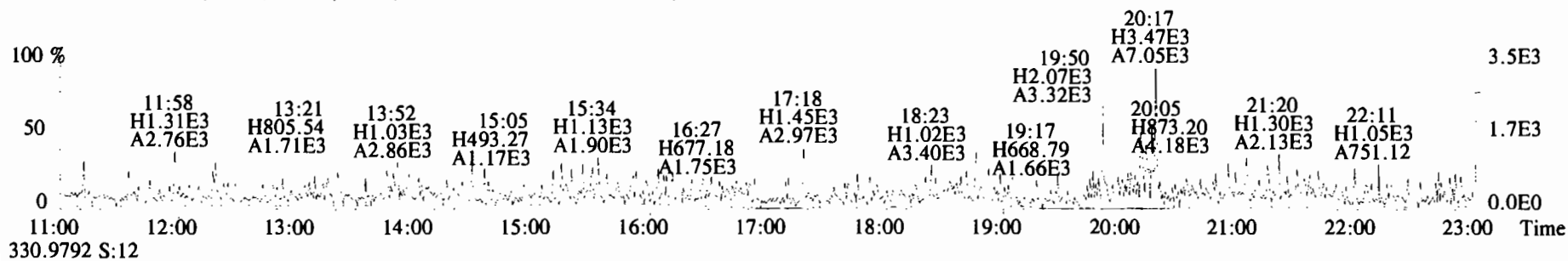
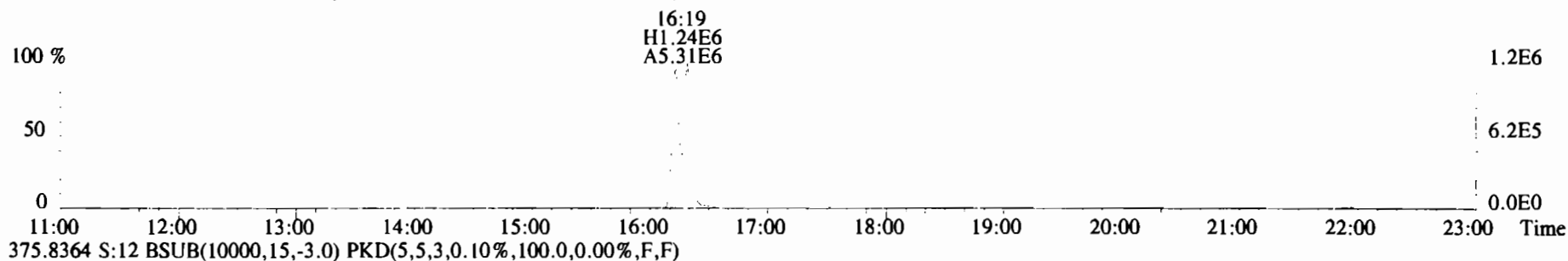
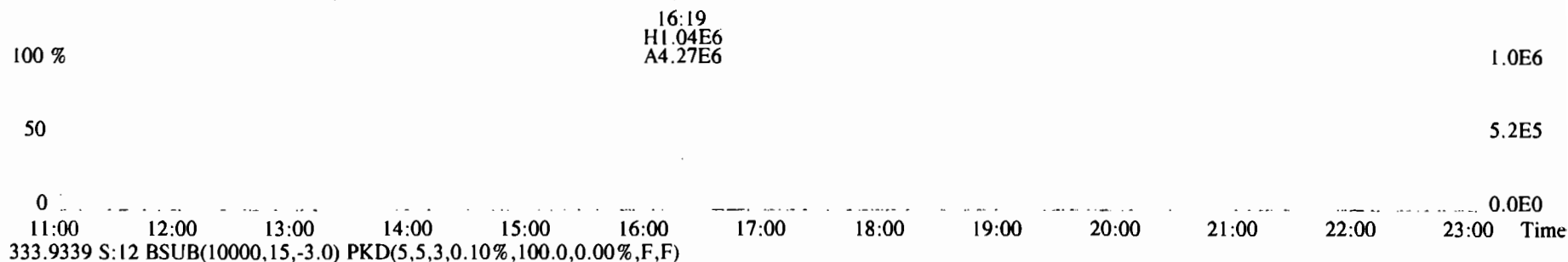


305.8987 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)





File:200102D1 #1-1682 Acq: 2-JAN-2020 19:16:13 GC EI+ Voltage SIR Autospec-UltimaF  
 Sample#12 File Text: Vista Analytical Laboratory\_VG7 Text:1903655-01RE1 PDI-032SC-A-00-01-191010 12.22 Exp:TCDF\_DB225  
 331.9368 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Name	Resp	RA	RT	RRF	Conc	Rec
13C-1,2,3,4-TCDF	1.23e+07	0.78 y	15:40	1.00	199.8	-
13C-2,3,7,8-TCDF	8.65e+06	0.77 y	17:45	1.02	137.4	68.8
2,3,7,8-TCDF	3.62e+06	0.77 y	17:46	0.95	88.10	

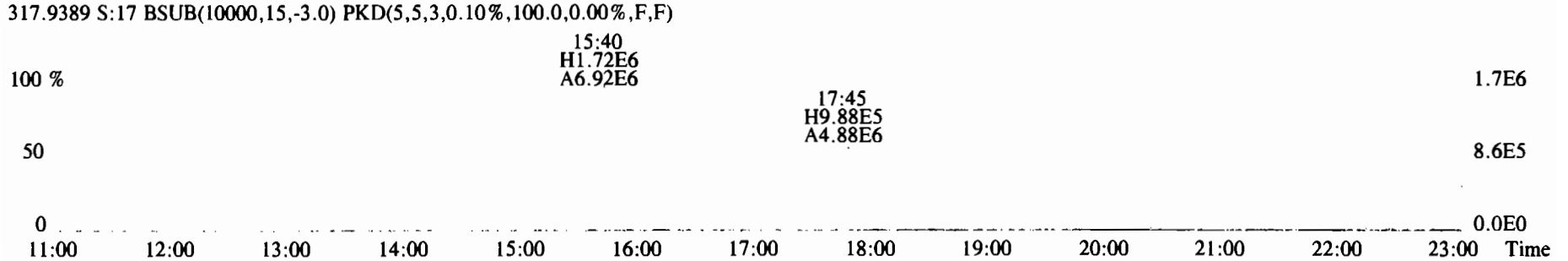
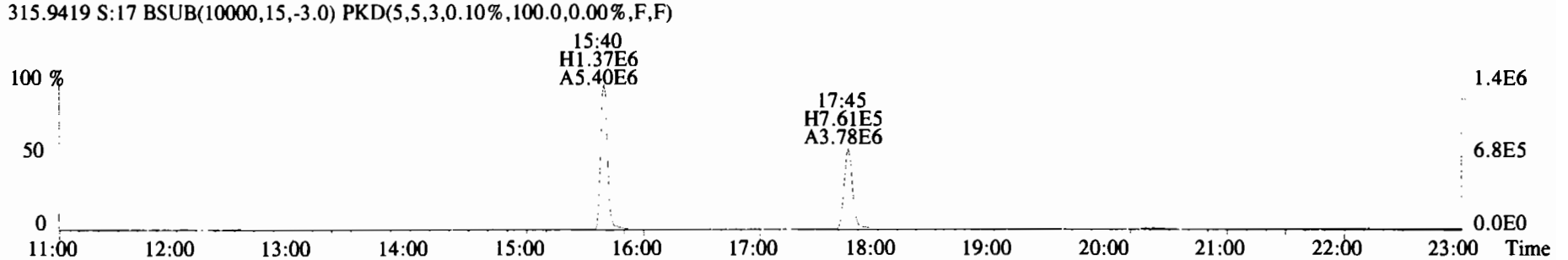
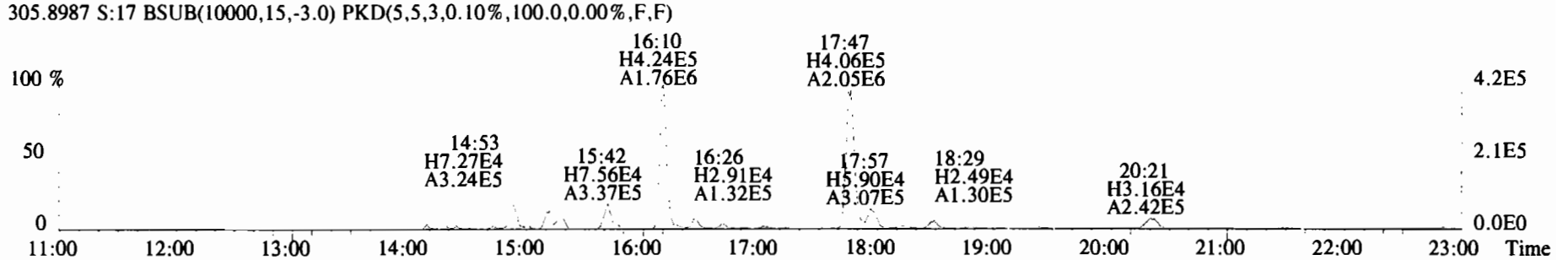
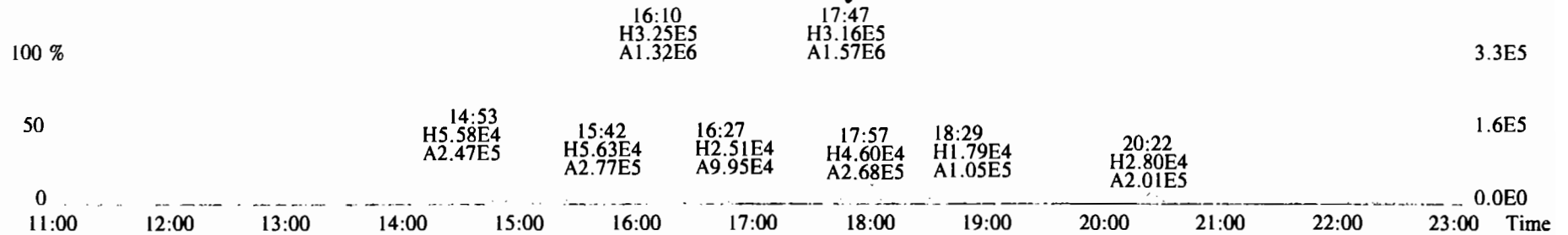
Integrations  
by  
Analyst: DB

Date: 1/3/20

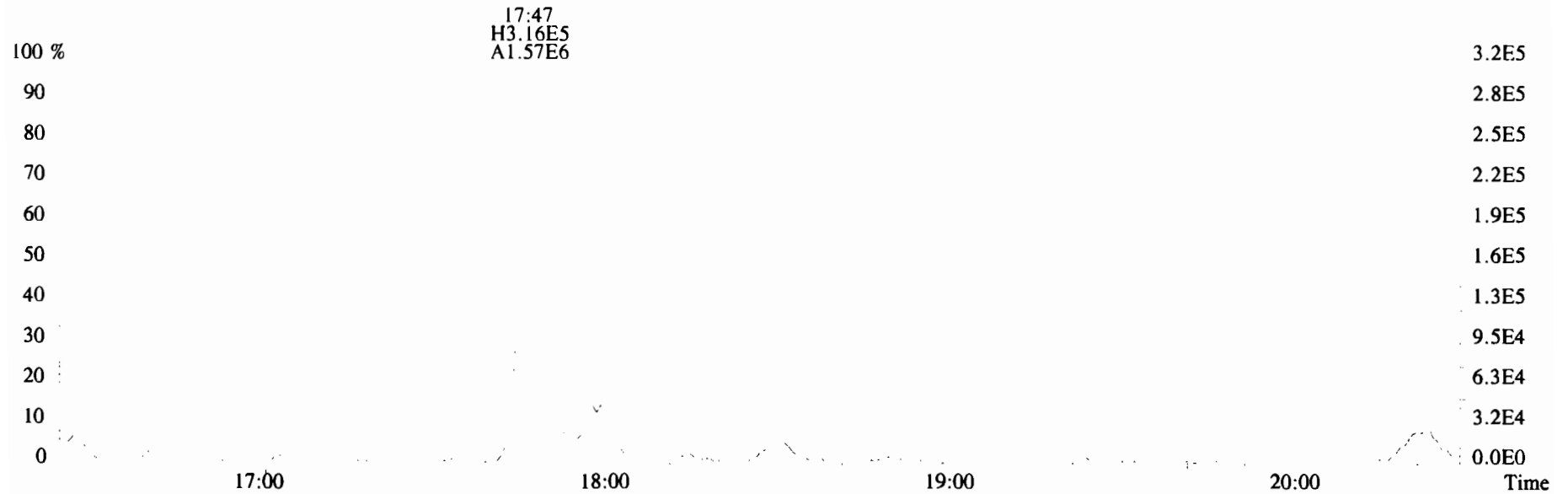
Reviewed  
by  
Analyst: mm

Date: 1/10/20

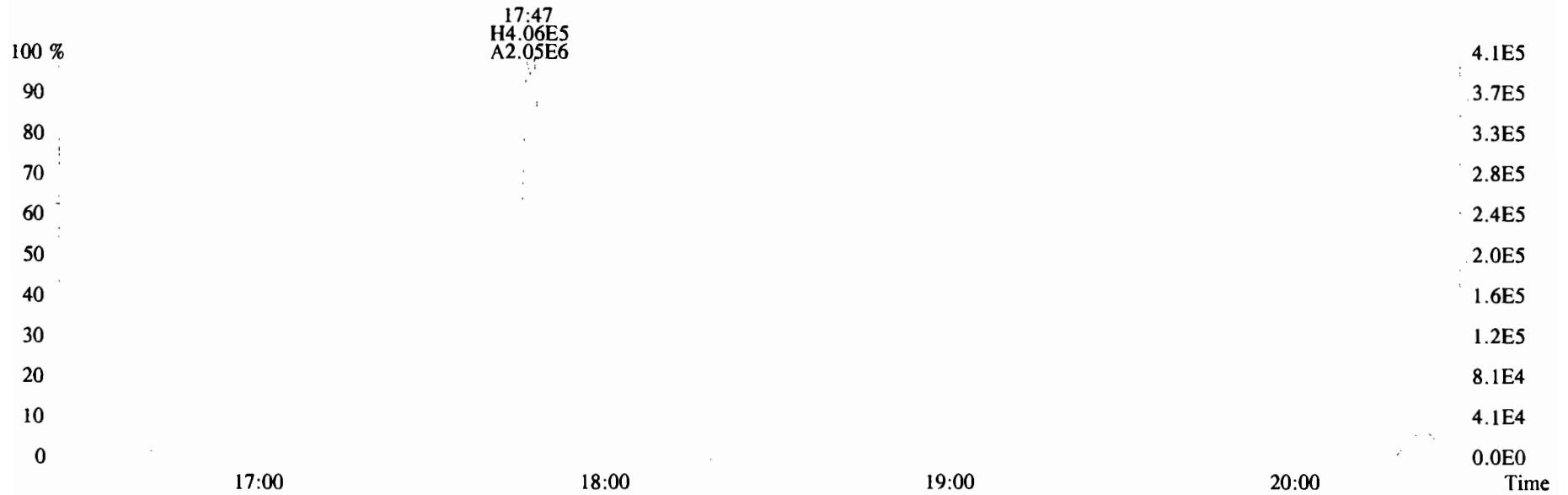
File: 200102D1 #1-1683 Acq: 2-JAN-2020 21:57:55 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#17 File Text: Vista Analytical Laboratory VG7 Text: 1903655-06RE1 PDI-035SC-A-00-01-191010 15.92 Exp: TCDF\_DB225  
 303.9016 S:17 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



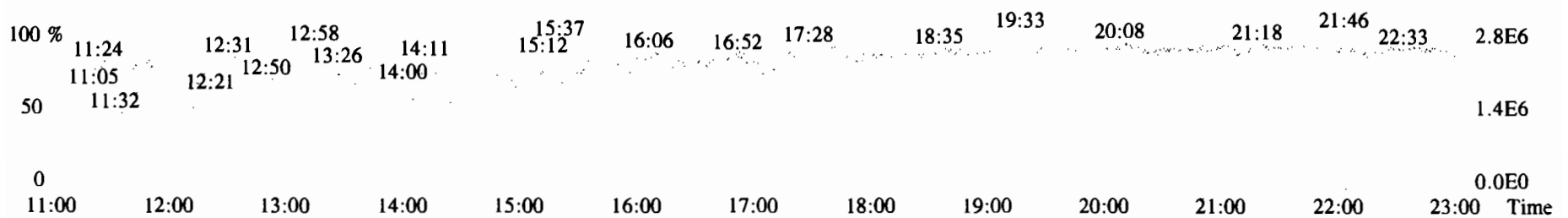
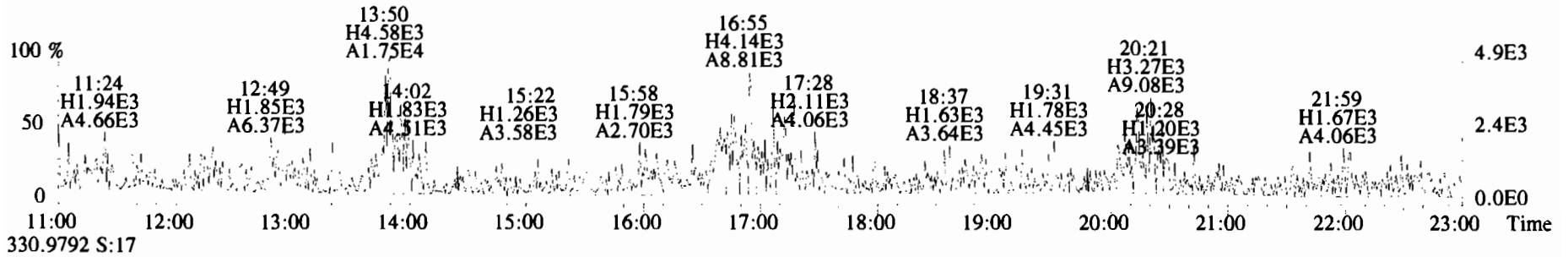
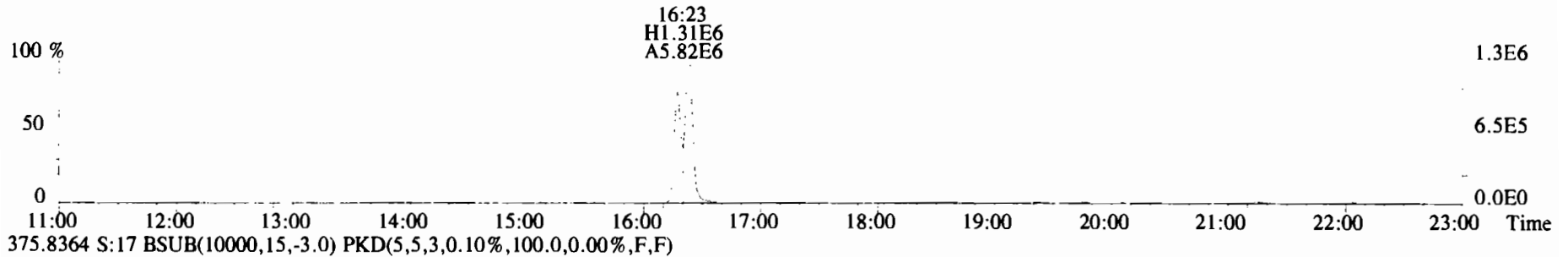
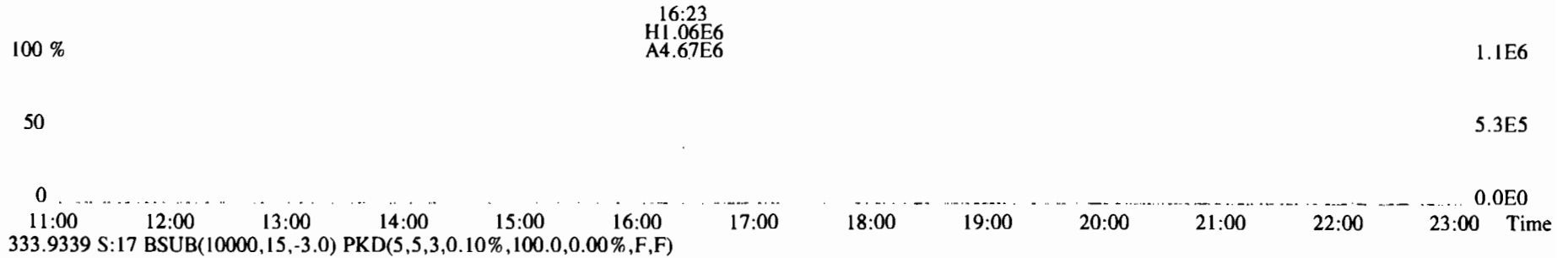
File:200102DI #1-1683 Acq: 2-JAN-2020 21:57:55 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#17 File Text: Vista Analytical Laboratory VG7 Text:1903655-06REI PDI-035SC-A-00-01-191010 15.92 Exp:TCDF\_DB225  
 303.9016 S:17 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



305.8987 S:17 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:200102D1 #1-1683 Acq: 2-JAN-2020 21:57:55 GC EI+ Voltage SIR Autospec-UltimaF  
 Sample#17 File Text:Vista Analytical Laboratory VG7 Text:1903655-06RE1 PDI-035SC-A-00-01-191010 15.92 Exp:TCDF\_DB225  
 331.9368 S:17 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



**CONTINUING CALIBRATION**

# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST191028D1-1

**Reviewed By:** CT 10/29/19  
*Initials & Date*

**End Calibration ID:** ST191028D1-2

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
<b>Ion abundance within QC limits?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Mass resolution <math>\geq</math></b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Concentrations within criteria?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> A	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614    1699    429    1613/1668/8280		
<b>TCDD/TCDF Valleys &lt;25%</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Intergrated peaks display correctly?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>First and last eluters present?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>GC Break &lt;20%</b>	<input type="checkbox"/> NA	
<b>Retention Times within criteria?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b><u>8280 CS1 End Standard:</u></b>		
<b>Verification Std. named correctly?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>- Ratios within limits, S/N &lt;2.5:1, CS1 within 12 hours</b>	<input type="checkbox"/> NA	
<b>(ST-Year-Month-Day-VG ID)</b>					
<b>Forms signed and dated?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Comments:</b> A: End std for tetras only		
<b>Correct ICAL referenced?</b>	<u>DB</u>	<u>DB</u>			
<b><u>Run Log:</u></b>					
<b>- Correct instrument listed?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<b>- Samples within 12 hour clock?</b>	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N			
<b>- Bottle position verified?</b>	<u>DB</u>				

FORM 4A  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

CCAL ID: ST191028D1-1

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 191028D1 S#1 Analysis Date: 28-OCT-19 Time: 12:13:23

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			
2,3,7,8-TCDD	M/M+2	0.86	0.65-0.89	y	11.6	7.8 - 12.9 8.2 - 12.3 (4)
1,2,3,7,8-PeCDD	M/M+2	0.64	0.54-0.72	y	52.1	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.21	1.05-1.43	y	51.7	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	51.1	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.20	1.05-1.43	y	53.1	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	0.88-1.20	y	51.0	43.0 - 58.0
OCDD	M+2/M+4	0.90	0.76-1.02	y	108	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	y	9.93	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.63	1.32-1.78	y	53.2	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	52.2	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	49.8	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.28	1.05-1.43	y	50.6	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	51.5	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.23	1.05-1.43	y	51.5	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	0.88-1.20	y	50.0	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.04	0.88-1.20	y	49.6	43.0 - 58.0
OCDF	M+2/M+4	0.91	0.76-1.02	y	102	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

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

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

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: DB

Date: 10/28/19



FORM 4B  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 191028D1 S#1 Analysis Date: 28-OCT-19 Time: 12:13:23

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.74	0.65-0.89	y	103	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.64	0.54-0.72	y	106	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	101	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	92.2	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05-1.43	y	90.4	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	99.2	72.0 - 138.0
13C-OCDD	M/M+2	0.91	0.76-1.02	y	187	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.79	0.65-0.89	y	103	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.57	1.32-1.78	y	104	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	104	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	103	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	102	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	102	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	100	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.45	0.37-0.51	y	105	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.45	0.37-0.51	y	107	77.0 - 129.0
13C-OCDF	M+2/M+4	0.89	0.76-1.02	y	210	96.0 - 415.0
CLEANUP STANDARD (3)						
37Cl-2,3,7,8-TCDD					9.91	7.9 - 12.7

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified

(3) No ion abundance ratio; report concentration found.

Analyst: DB

Date: 10/28/19

FORM 6A  
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 191028D1 S#1 Analysis Date: 28-OCT-19 Time: 12:13:23

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME		RRT	QC LIMITS (1)
	REFERENCE	RRT	RRT	
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002	
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002	
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003	
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.001	0.999-1.002	
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.001	0.999-1.002	

LABELED COMPOUNDS

13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.197	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.991	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.152	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.186	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052

Analyst: DB

Date: 10/28/19

FORM 6B  
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 191028D1 S#1 Analysis Date: 28-OCT-19 Time: 12:13:23

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.000	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.001	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.000	0.999-1.001
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.001	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.001	0.998-1.004
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001
OCDD	13C-OCDD	1.000	0.999-1.001
OCDF	13C-OCDF	1.000	0.999-1.001

LABELED COMPOUNDS

13C-1,2,3,4,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.988	0.975-1.001
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.991	0.979-1.005
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.009	1.001-1.020
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.038	1.002-1.072
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.014	1.002-1.026
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.018	1.007-1.029
13C-1,2,3,7,8,9-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.026	1.014-1.038
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.093	1.069-1.111
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.146	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.130	1.117-1.141
13C-OCDD	13C-1,2,3,4,6,9-HxCDF	1.229	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.236	1.091-1.371

Analyst: DB

Date: 10/28/19

## FORM 5

## PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-7 Initial Calibration Date: 10-9-19

RT Window Data Filename: 191028D1 S#1 Analysis Date: 28-OCT-19 Time: 12:13:23

ZB-5MS IS Data Filename: 191028D1 S#1 Analysis Date: 28-OCT-19 Time: 12:13:23

DB\_225 IS Data Filename: Analysis Date: Time:

## ZB-5MS RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	22:51	1,3,6,8-TCDF (F)	20:43
1,2,8,9-TCDD (L)	27:05	1,2,8,9-TCDF (L)	27:14
1,2,4,7,9-PeCDD (F)	28:42	1,3,4,6,8-PeCDF (F)	27:12
1,2,3,8,9-PeCDD (L)	31:06	1,2,3,8,9-PeCDF (L)	31:20
1,2,4,6,7,9-HxCDD (F)	32:32	1,2,3,4,6,8-HxCDF (F)	31:59
1,2,3,7,8,9-HxCDD (L)	34:29	1,2,3,7,8,9-HxCDF (L)	34:51
1,2,3,4,6,7,9-HpCDD (F)	37:06	1,2,3,4,6,7,8-HpCDF (F)	36:43
1,2,3,4,6,7,8-HpCDD (L)	37:57	1,2,3,4,7,8,9-HpCDF (L)	38:30

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

## =====

## ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT  
BETWEEN  
COMPARED PEAKS (1)

&lt;25%

(1) To meet contract requirements, %Valley Height Between Compared  
Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: DBDate: 10/28/19

Client ID: 1612 CS3 19C2204  
 Lab ID: ST191028D1-1

Filename: 191028D1 S:1 Acq:28-OCT-19 12:13:23  
 GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19 wt/vol: 1.000

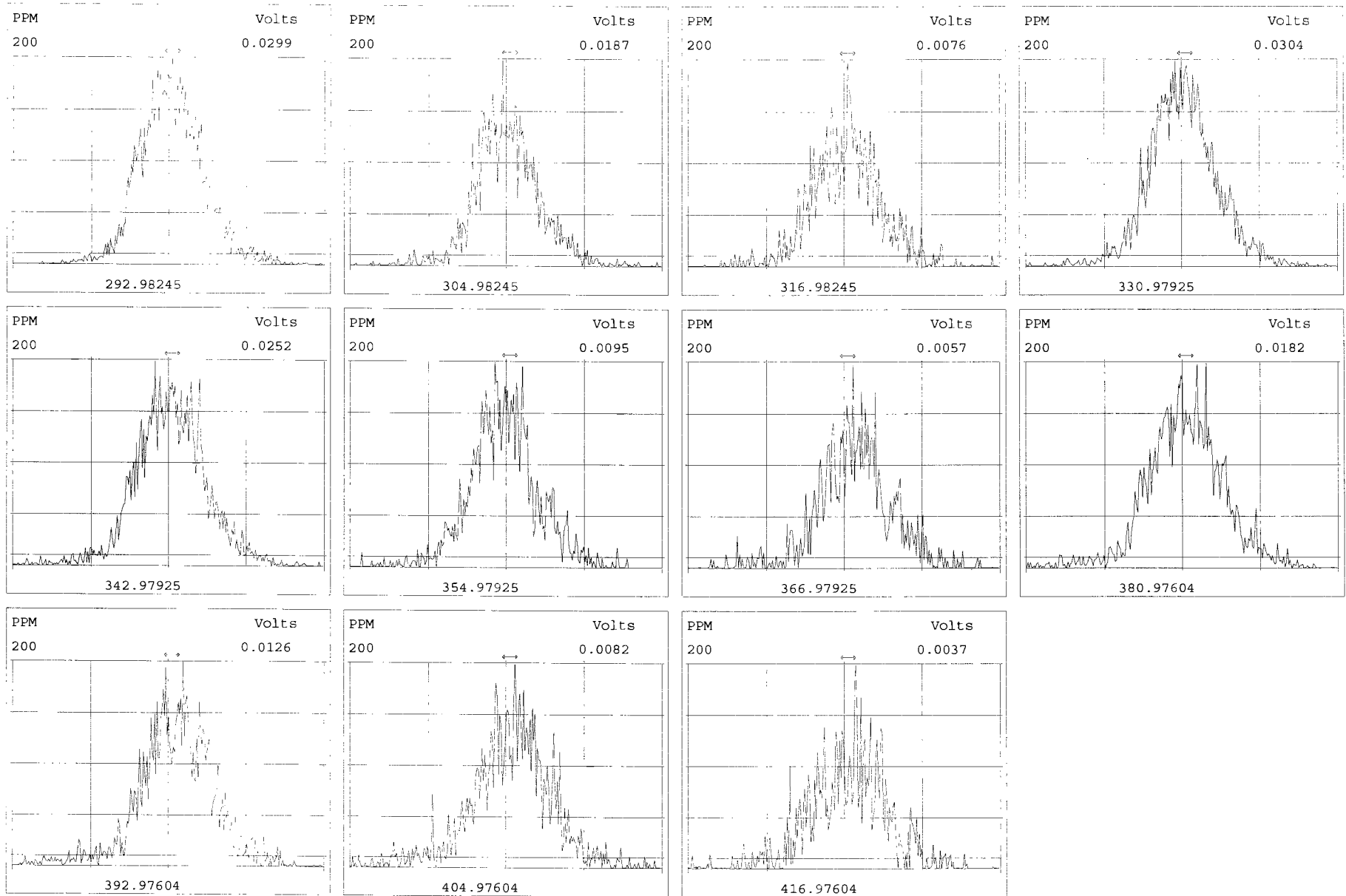
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 EndCAL: ST191028D1-2

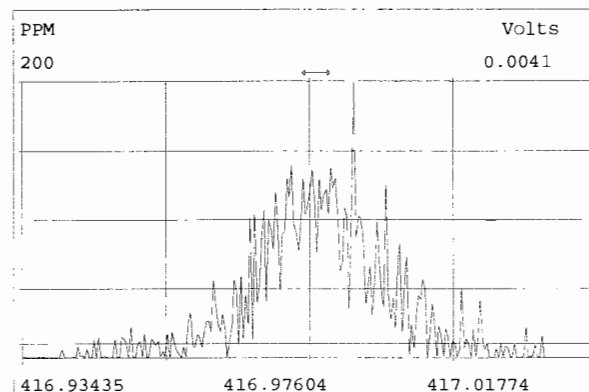
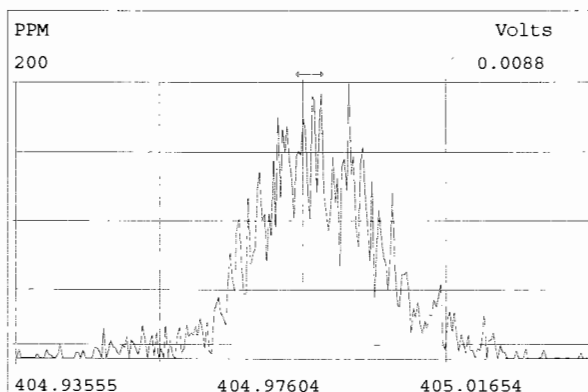
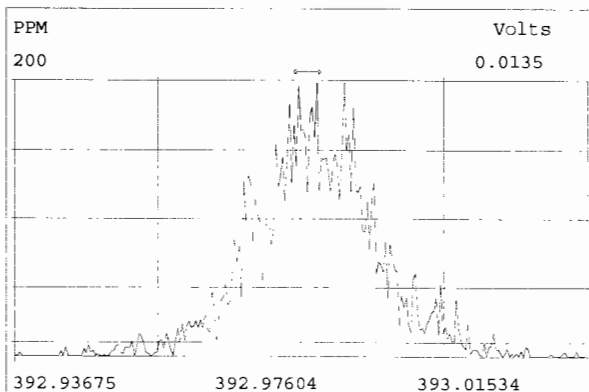
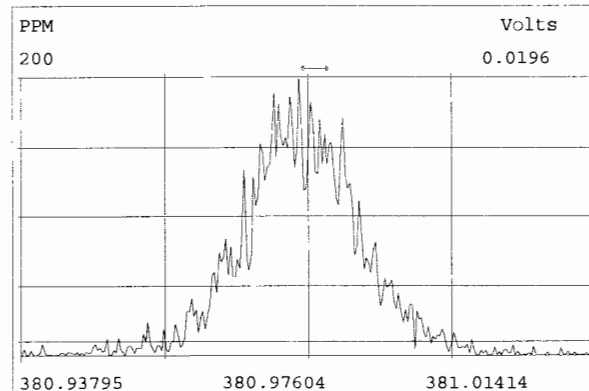
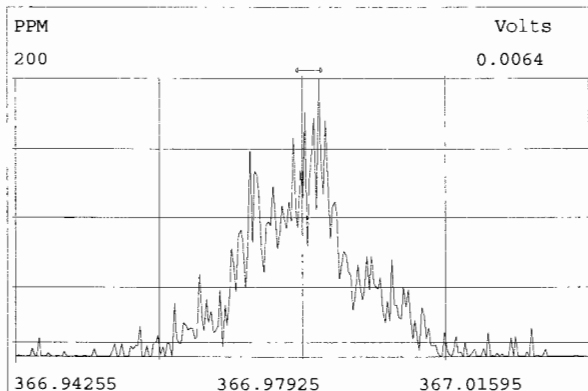
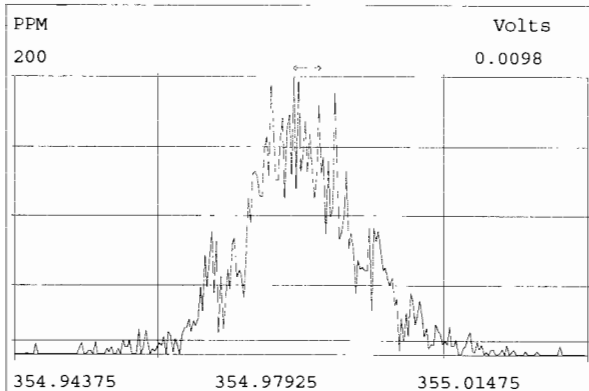
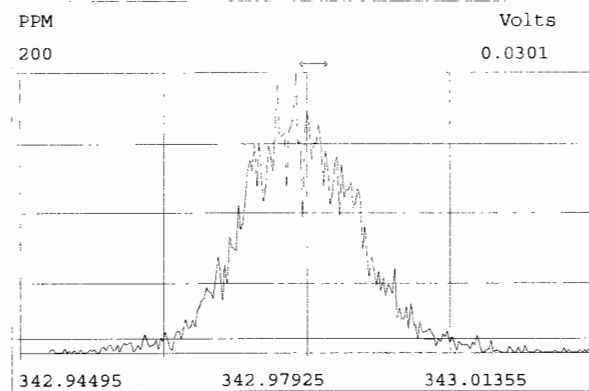
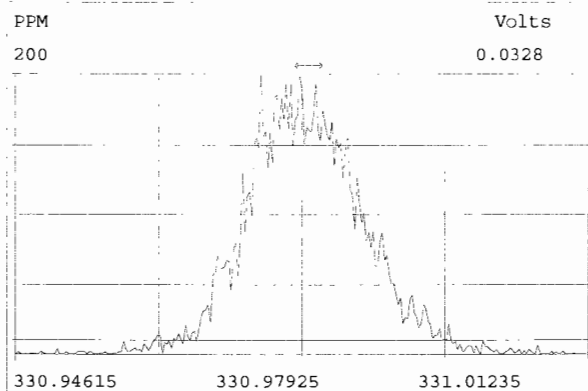
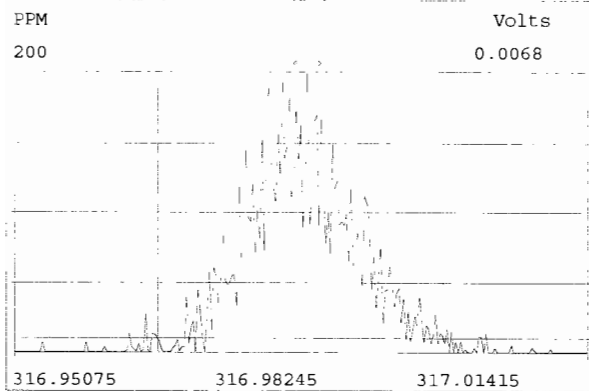
Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	7.48e+05	0.86 y	0.91	26:14	11.616		* 2.5		*	Total Tetra-Dioxins	80.8	81.6		*	*
1,2,3,7,8-PeCDD	2.79e+06	0.64 y	0.90	30:45	52.144		* 2.5		*	Total Penta-Dioxins	193	193		*	*
1,2,3,4,7,8-HxCDD	3.04e+06	1.21 y	1.10	34:04	51.720		* 2.5		*	Total Hexa-Dioxins	230	232		*	*
1,2,3,6,7,8-HxCDD	3.12e+06	1.27 y	0.94	34:11	51.116		* 2.5		*	Total Hepta-Dioxins	120	122		*	*
1,2,3,7,8,9-HxCDD	3.08e+06	1.20 y	0.96	34:29	53.137		* 2.5		*	Total Tetra-Furans	38.4	39.1		*	*
1,2,3,4,6,7,8-HpCDD	2.68e+06	1.02 y	0.98	37:57	51.050		* 2.5		*	Total Penta-Furans	226.83	227.24		*	*
OCDD	4.62e+06	0.90 y	0.96	41:17	107.59		* 2.5		*	Total Hexa-Furans	270	271		*	*
										Total Hepta-Furans	100	102		*	*
2,3,7,8-TCDF	1.04e+06	0.78 y	0.95	25:27	9.9321		* 2.5		*						
1,2,3,7,8-PeCDF	4.71e+06	1.63 y	0.96	29:34	53.232		* 2.5		*						
2,3,4,7,8-PeCDF	4.85e+06	1.62 y	1.01	30:28	52.205		* 2.5		*						
1,2,3,4,7,8-HxCDF	4.14e+06	1.22 y	1.18	33:10	49.840		* 2.5		*						
1,2,3,6,7,8-HxCDF	4.72e+06	1.28 y	1.07	33:18	50.593		* 2.5		*						
2,3,4,6,7,8-HxCDF	4.60e+06	1.26 y	1.11	33:54	51.543		* 2.5		*						
1,2,3,7,8,9-HxCDF	3.74e+06	1.23 y	1.06	34:51	51.502		* 2.5		*						
1,2,3,4,6,7,8-HpCDF	3.69e+06	1.04 y	1.13	36:43	49.970		* 2.5		*						
1,2,3,4,7,8,9-HpCDF	3.27e+06	1.04 y	1.28	38:30	49.625		* 2.5		*						
OCDF	5.75e+06	0.91 y	0.95	41:30	101.81		* 2.5		*						
										Rec	Qual				
IS 13C-2,3,7,8-TCDD	7.11e+06	0.74 y	1.10	26:13	102.90					103					
IS 13C-1,2,3,7,8-PeCDD	5.92e+06	0.64 y	0.88	30:43	106.43					106					
IS 13C-1,2,3,4,7,8-HxCDD	5.33e+06	1.26 y	0.64	34:03	100.58					101					
IS 13C-1,2,3,6,7,8-HxCDD	6.51e+06	1.28 y	0.86	34:10	92.170					92.2					
IS 13C-1,2,3,7,8,9-HxCDD	6.02e+06	1.26 y	0.81	34:28	90.378					90.4					
IS 13C-1,2,3,4,6,7,8-HpCDD	5.36e+06	1.05 y	0.65	37:57	99.232					99.2					
IS 13C-OCDD	8.97e+06	0.91 y	0.58	41:17	187.30					93.7					
IS 13C-2,3,7,8-TCDF	1.11e+07	0.79 y	1.03	25:26	103.48					103					
IS 13C-1,2,3,7,8-PeCDF	9.22e+06	1.57 y	0.85	29:33	104.42					104					
IS 13C-2,3,4,7,8-PeCDF	9.15e+06	1.59 y	0.85	30:26	104.50					104					
IS 13C-1,2,3,4,7,8-HxCDF	7.06e+06	0.52 y	0.83	33:10	102.80					103					
IS 13C-1,2,3,6,7,8-HxCDF	8.73e+06	0.51 y	1.03	33:17	102.17					102					
IS 13C-2,3,4,6,7,8-HxCDF	8.01e+06	0.51 y	0.95	33:53	101.69					102					
IS 13C-1,2,3,7,8,9-HxCDF	6.85e+06	0.52 y	0.83	34:51	100.17					100					
IS 13C-1,2,3,4,6,7,8-HpCDF	6.56e+06	0.45 y	0.76	36:42	104.83					105					
IS 13C-1,2,3,4,7,8,9-HpCDF	5.14e+06	0.45 y	0.58	38:29	107.11					107					
IS 13C-OCDF	1.19e+07	0.89 y	0.69	41:29	209.70					105					
C/Up 37C1-2,3,7,8-TCDD	7.49e+05		1.20	26:14	9.9091					99.1					
											Integrations				Reviewed
											by				by
RS/RT 13C-1,2,3,4-TCDD	6.31e+06	0.77 y	1.00	25:39	100.00						Analyst: <u>DB</u>				Analyst: <u>CT</u>
RS 13C-1,2,3,4-TCDF	1.03e+07	0.80 y	1.00	24:14	100.00										
RS/RT 13C-1,2,3,4,6,9-HxCDF	8.26e+06	0.50 y	1.00	33:35	100.00										

Date: 10/28/19 Date: 10/29/19

Vista Analytical Laboratory - Injection Log Run file: 191028D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
191028D1	1	ST191028D1-1	DB	28-OCT-19	12:13:23	ST191028D1-1	ST191028D1-2
191028D1	2	B9J0132-BS1	DB	28-OCT-19	13:01:23	ST191028D1-1	NA
191028D1	3	B9J0264-BS1	DB	28-OCT-19	13:49:19	ST191028D1-1	NA
191028D1	4	B9J0251-BS1	DB	28-OCT-19	14:37:14	ST191028D1-1	ST191028D1-2
191028D1	5	SOLVENT BLANK	DB	28-OCT-19	15:25:10	ST191028D1-1	NA
191028D1	6	B9J0264-BLK1	DB	28-OCT-19	16:13:05	ST191028D1-1	NA
191028D1	7	B9J0251-BLK1	DB	28-OCT-19	17:01:01	ST191028D1-1	ST191028D1-2
191028D1	8	1903568-01	DB	28-OCT-19	17:48:56	ST191028D1-1	ST191028D1-2
191028D1	9	1903655-04	DB	28-OCT-19	18:36:41	ST191028D1-1	NA
191028D1	10	1903655-05	DB	28-OCT-19	19:24:29	ST191028D1-1	NA
191028D1	11	1903419-01REL	DB	28-OCT-19	20:12:13	ST191028D1-1	NA
191028D1	12	1903772-01	DB	28-OCT-19	20:59:58	ST191028D1-1	NA
191028D1	13	1903772-02	DB	28-OCT-19	21:47:42	ST191028D1-1	NA
191028D1	14	1903569-01	DB	28-OCT-19	22:35:31	ST191028D1-1	NA
191028D1	15	1903569-02	DB	28-OCT-19	23:23:16	ST191028D1-1	NA
191028D1	16	SOLVENT BLANK	DB	29-OCT-19	00:11:01	ST191028D1-1	NA
191028D1	17	ST191028D1-2	DB	29-OCT-19	00:58:46	ST191028D1-1	ST191028D1-2

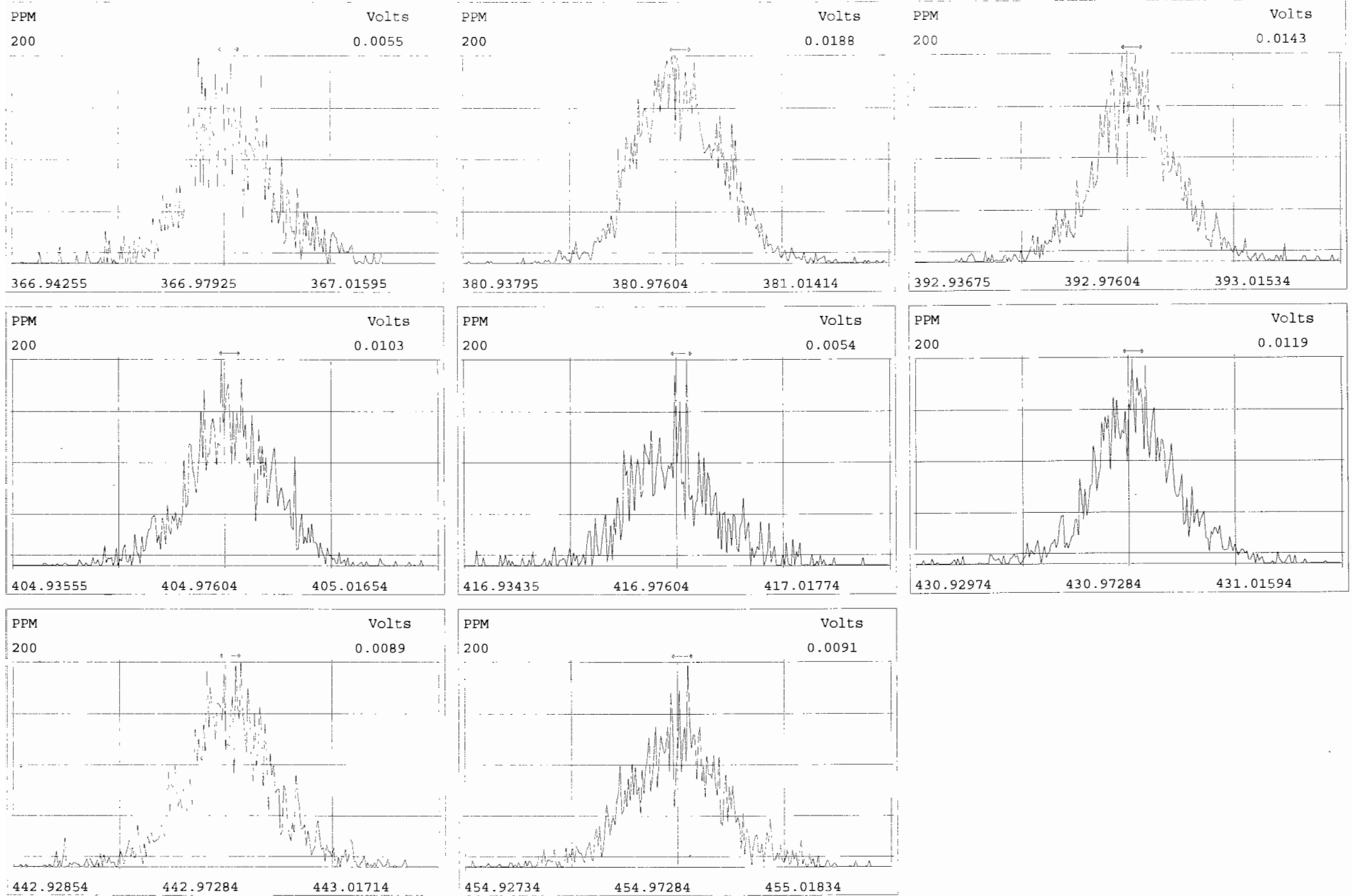






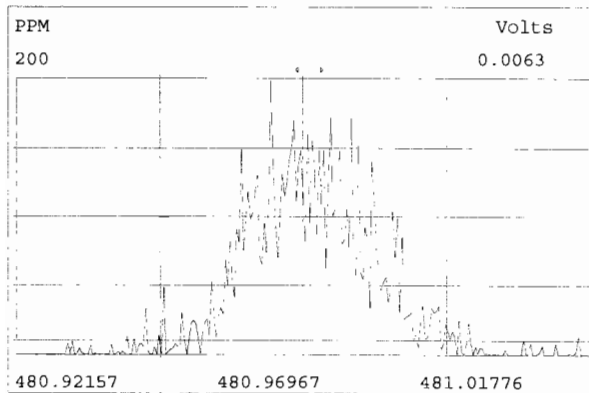
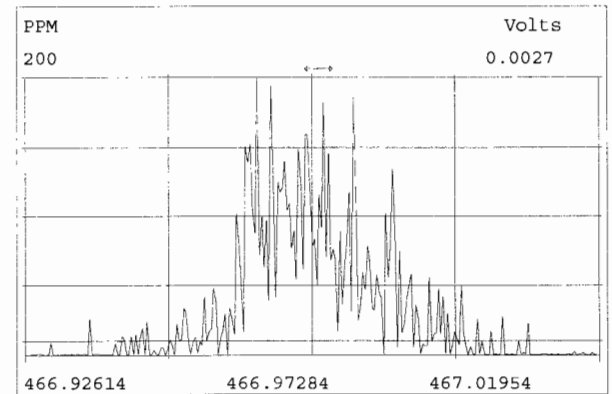
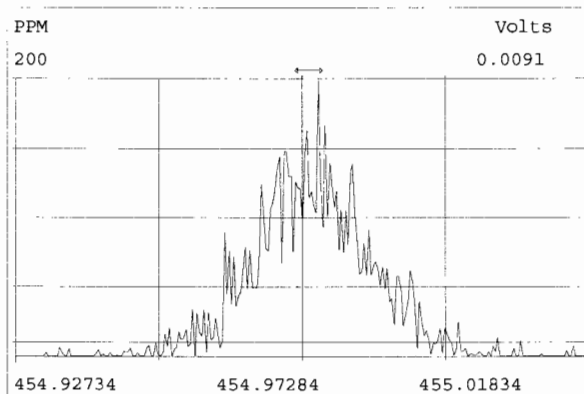
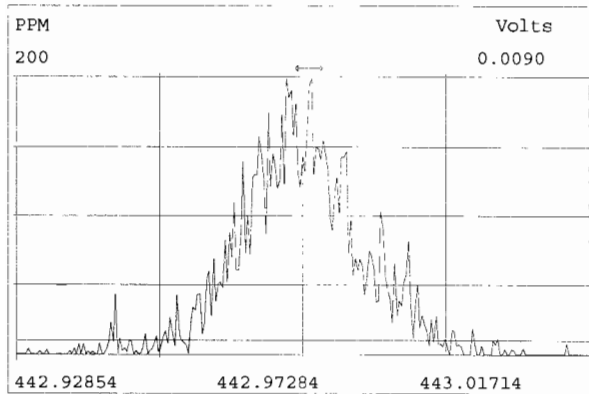
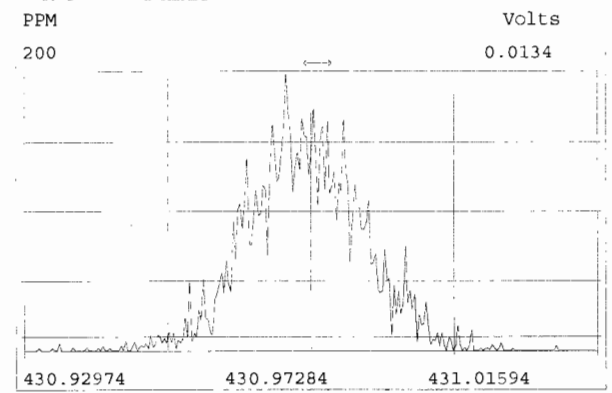
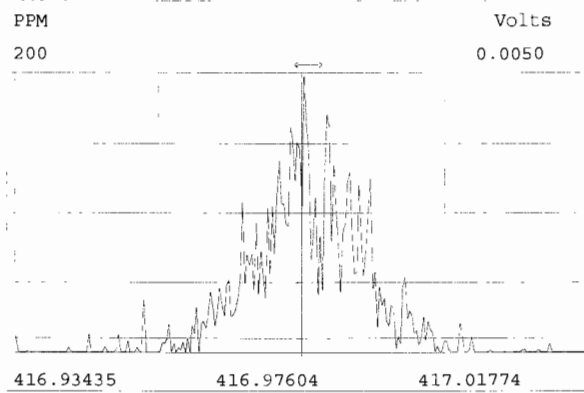
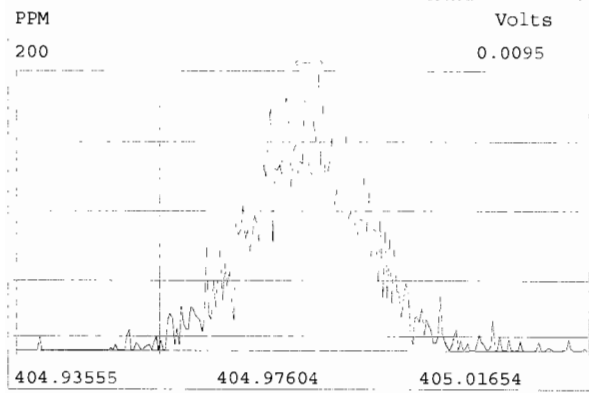
Peak Locate Examination:28-OCT-2019:12:11 File:191028D1

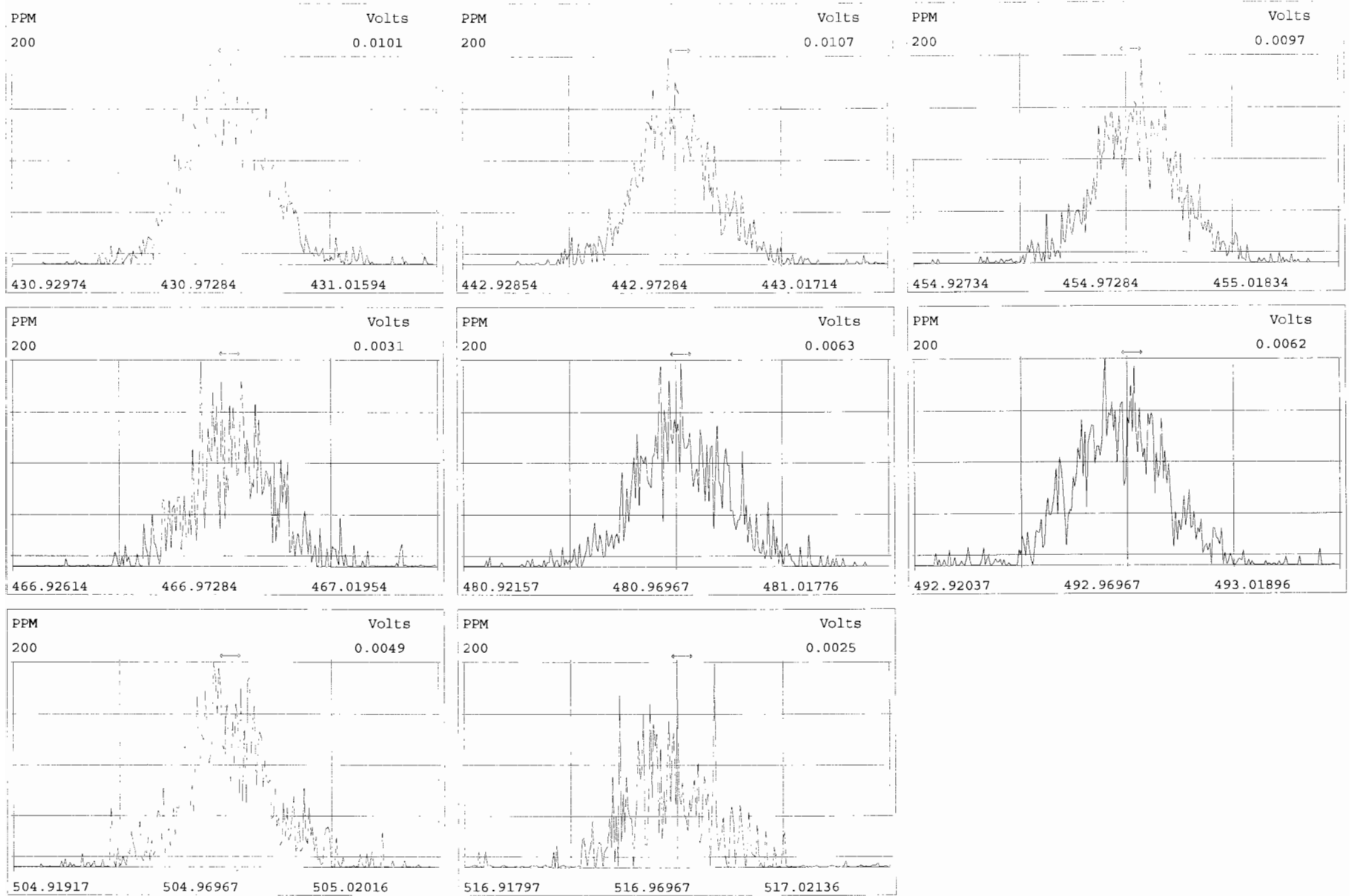
Experiment:OCDD\_DB5 Function:3 Reference:PFK



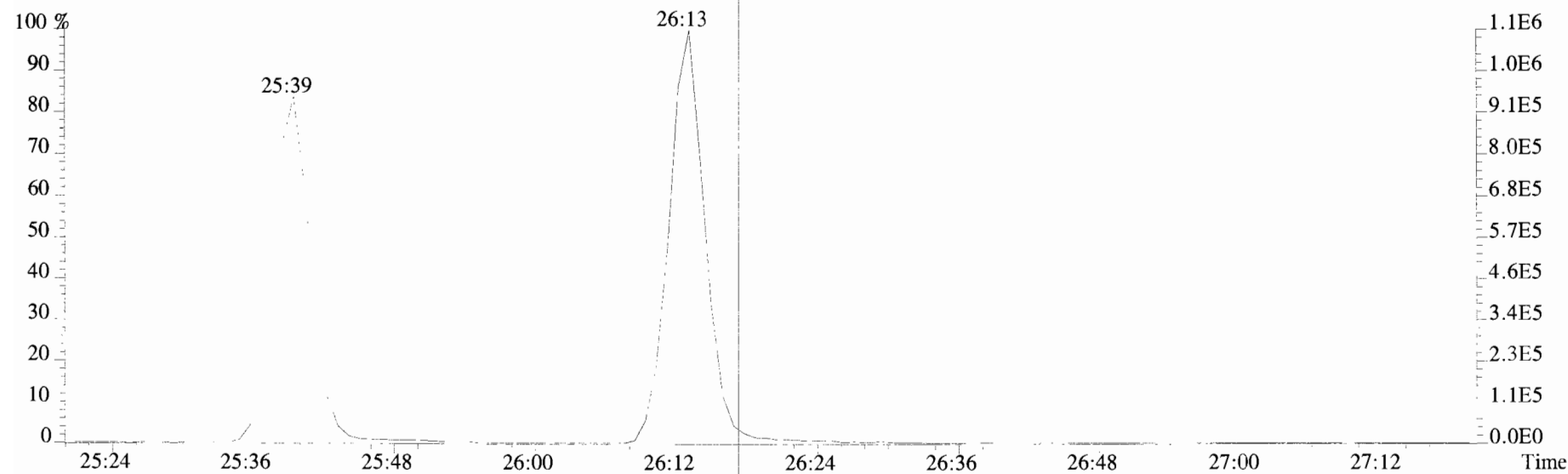
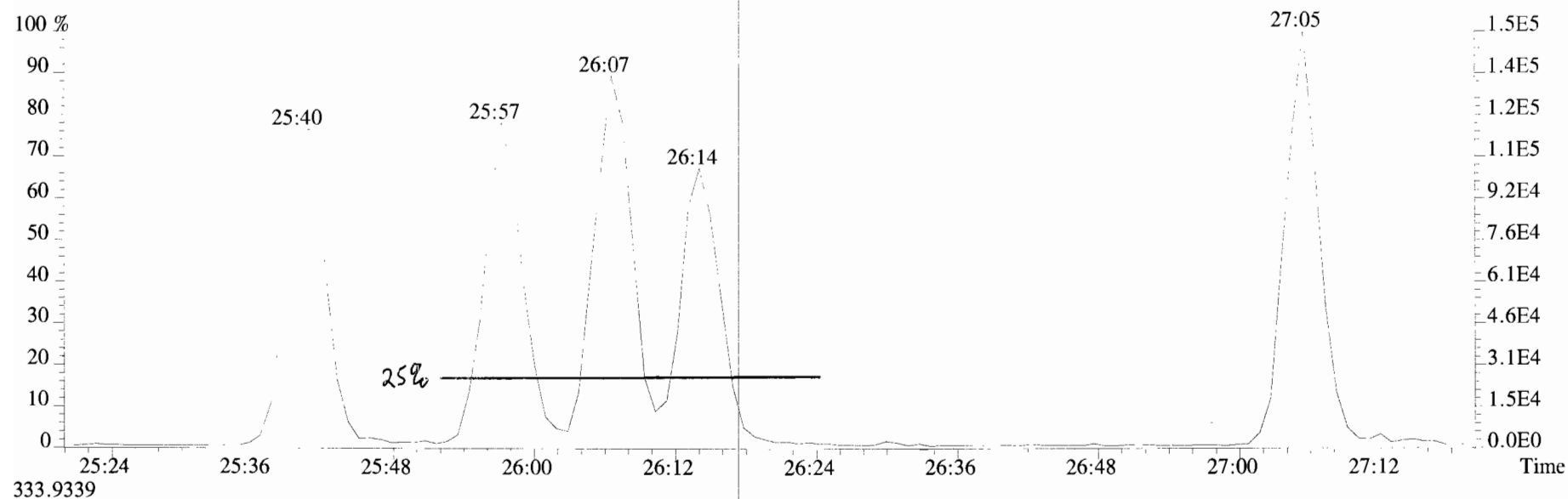
Peak Locate Examination:28-OCT-2019:12:11 File:191028D1

Experiment:OCDD\_DB5 Function:4 Reference:PFK

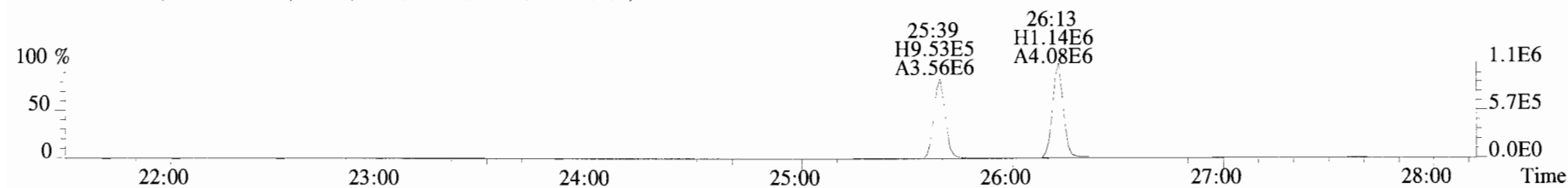
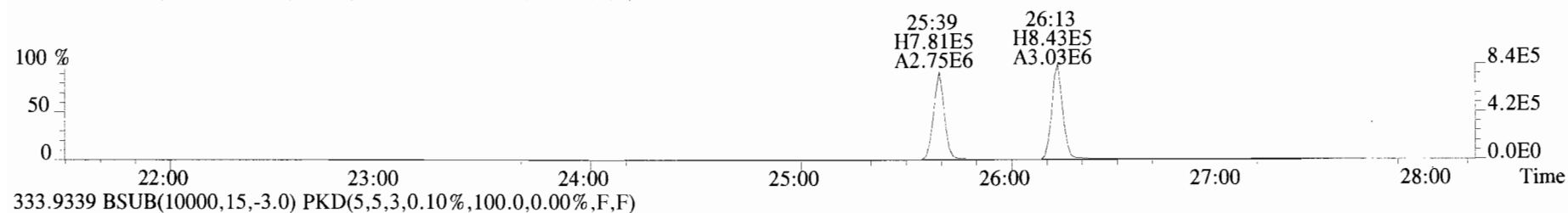
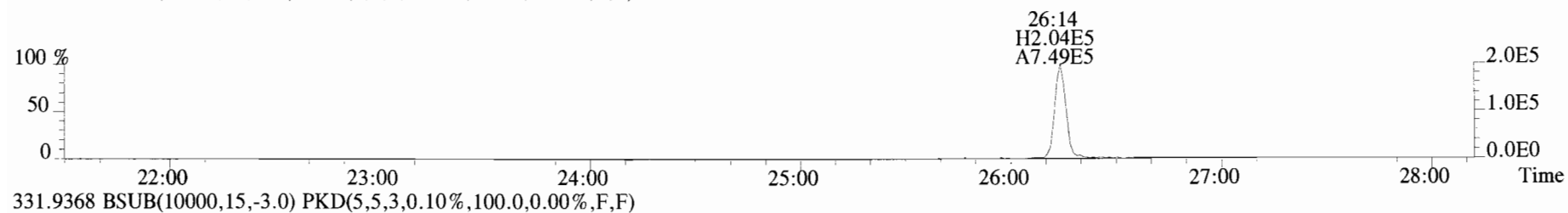
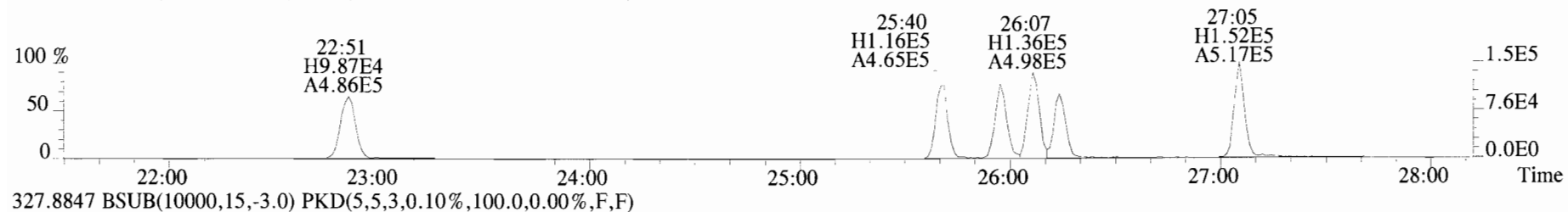
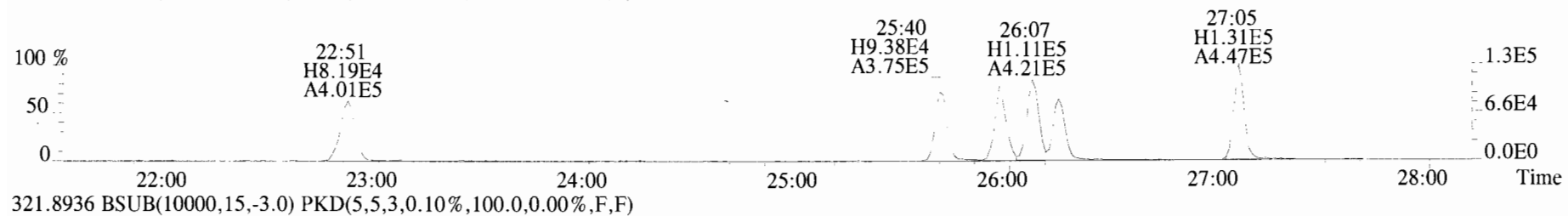




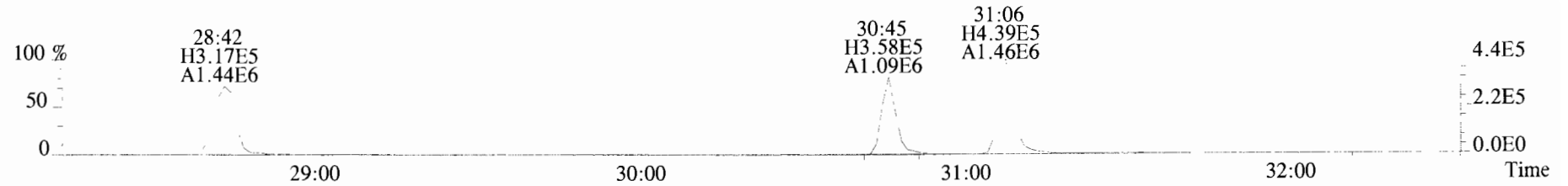
File:191028D1 #1-493 Acq:28-OCT-2019 12:13:23 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191028D1-1 1612 CS3 19C2204 Exp:OCDD\_DB5  
321.8936



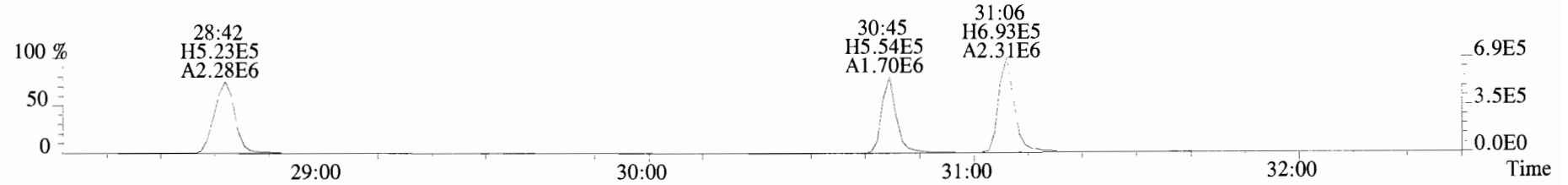
File:191028D1 #1-493 Acq:28-OCT-2019 12:13:23 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191028D1-1 1612 CS3 19C2204 Exp:OCDD\_DB5  
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



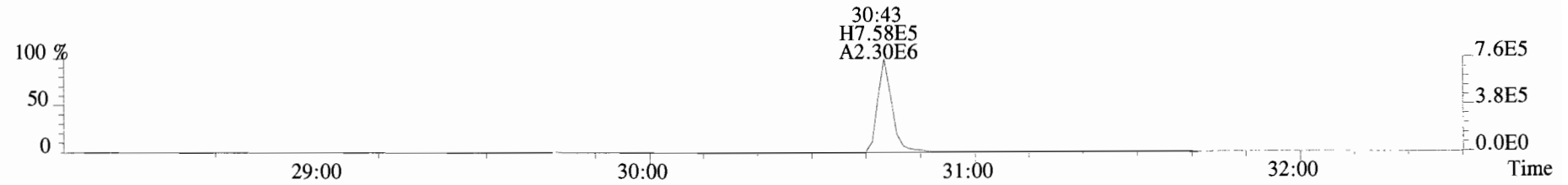
File:191028D1 #1-210 Acq:28-OCT-2019 12:13:23 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata Analytical Laboratory\_VG7 Text:ST191028D1-1 1612 CS3 19C2204 Exp:OCDD\_DB5  
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



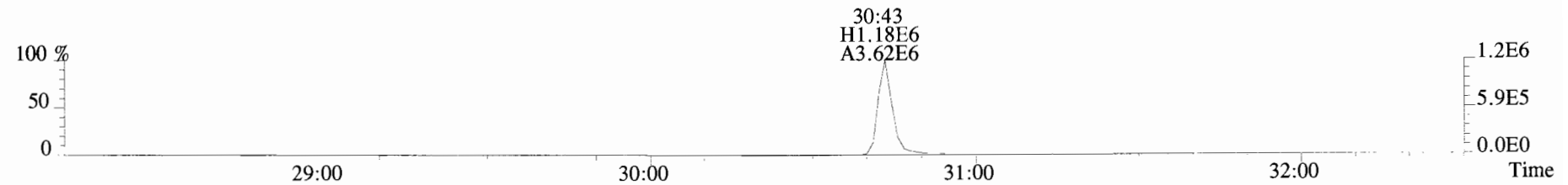
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



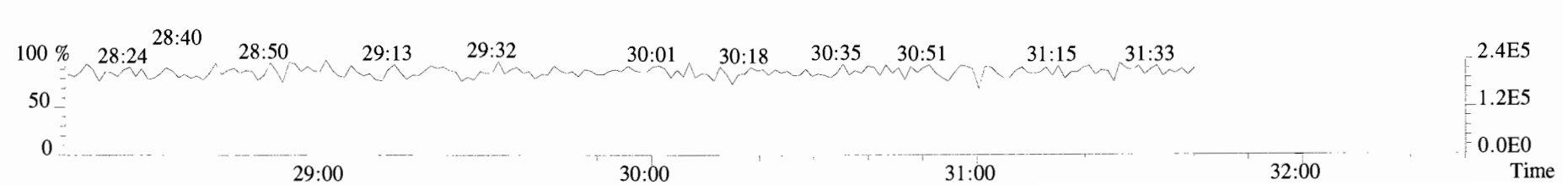
365.8978 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



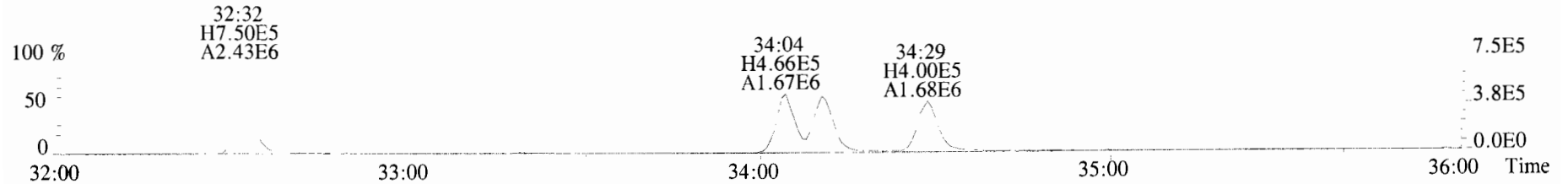
367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



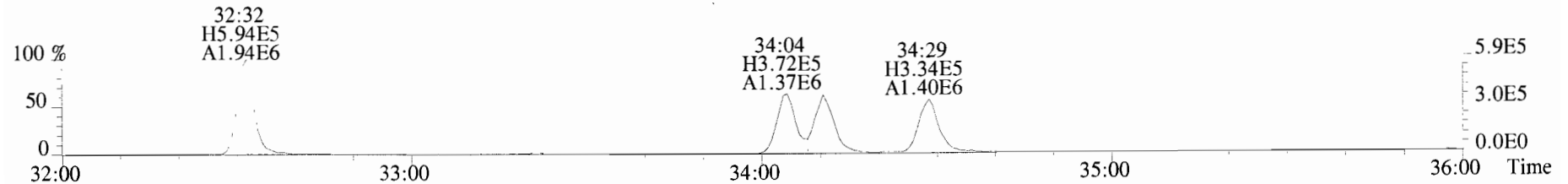
366.9792 F:2



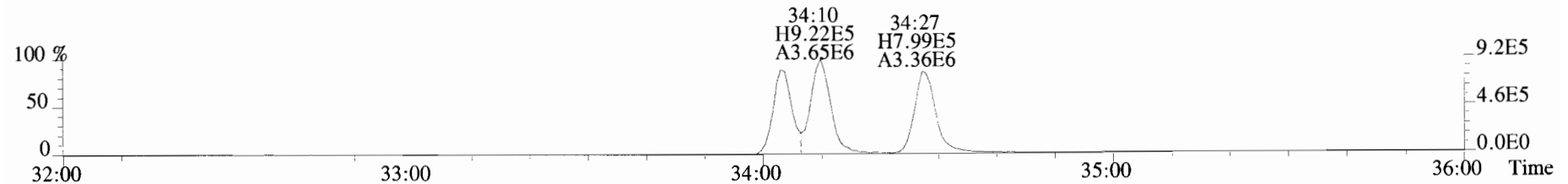
File:191028D1 #1-385 Acq:28-OCT-2019 12:13:23 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191028D1-1 1612 CS3 19C2204 Exp:OCDD\_DB5  
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



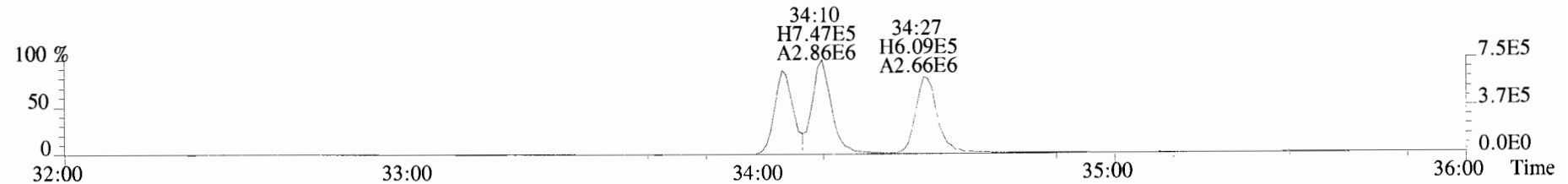
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



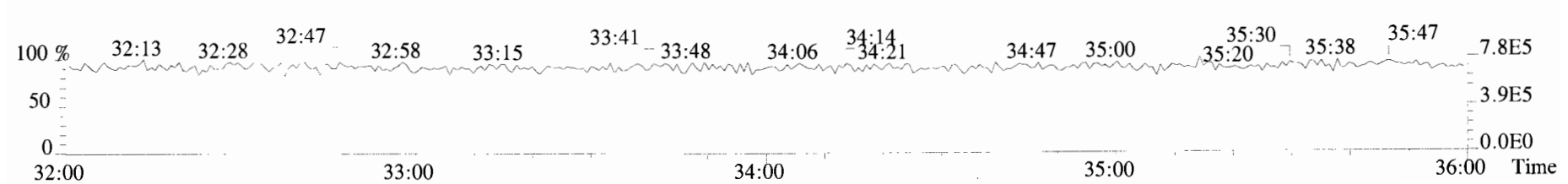
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



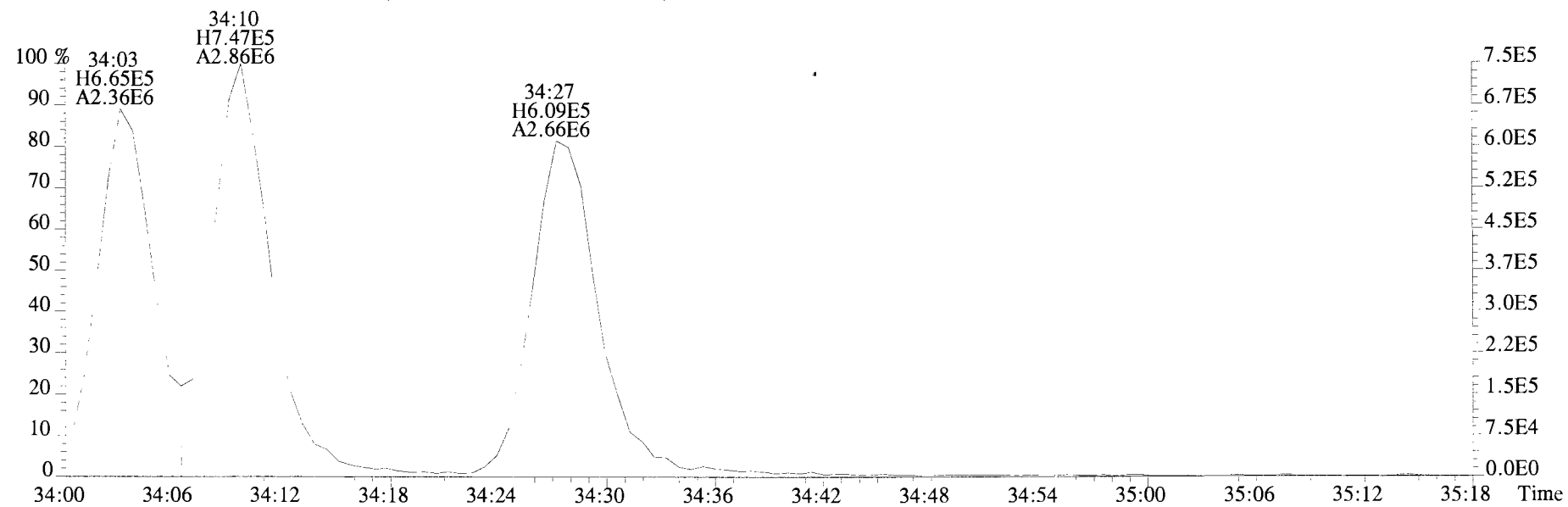
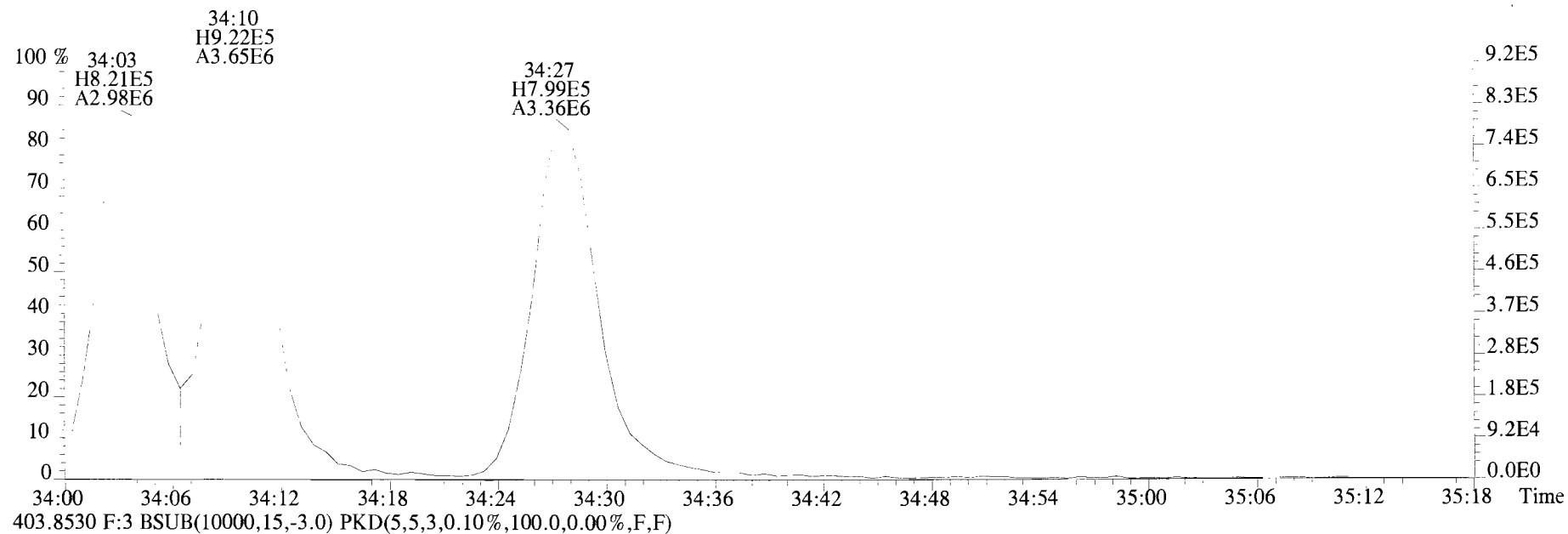
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



392.9760 F:3

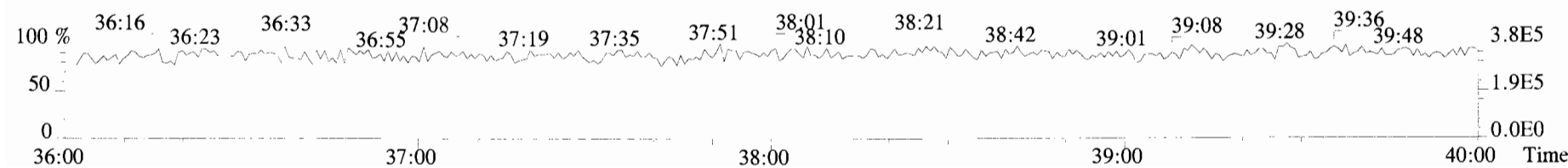
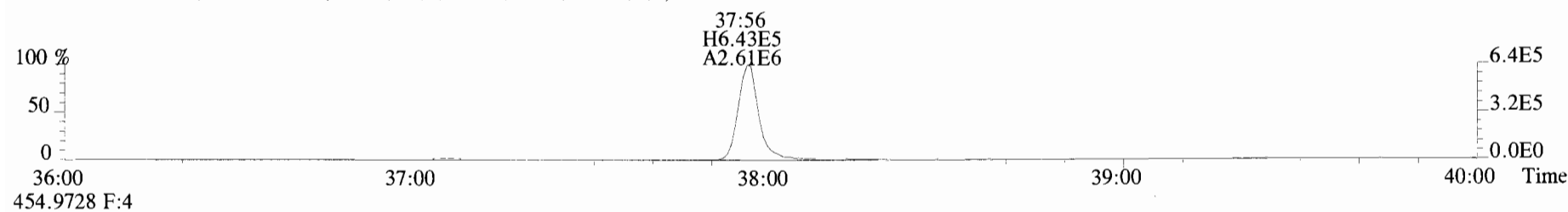
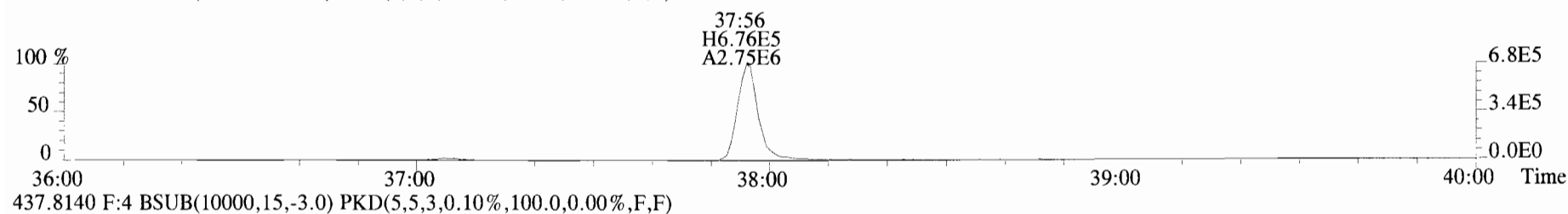
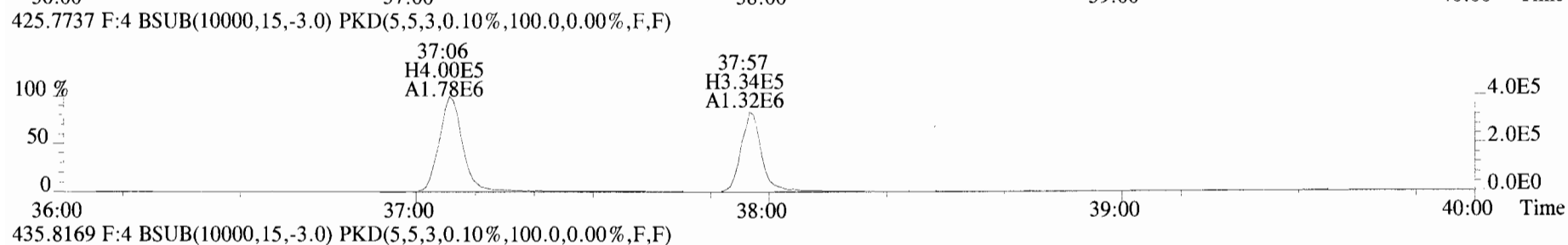
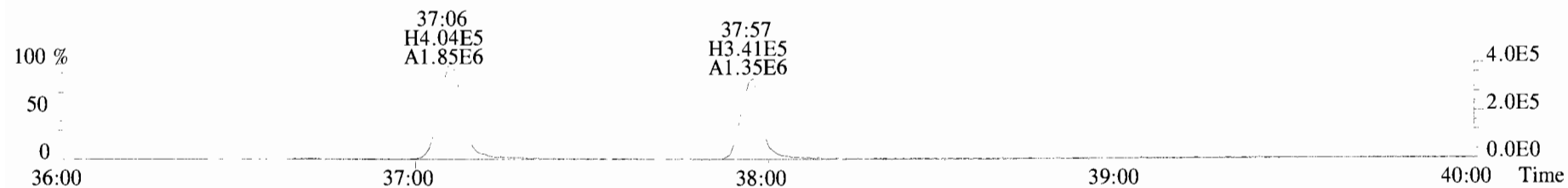


File:191028D1 #1-385 Acq:28-OCT-2019 12:13:23 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191028D1-1 1612 CS3 19C2204 Exp:OCDD\_DB5  
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

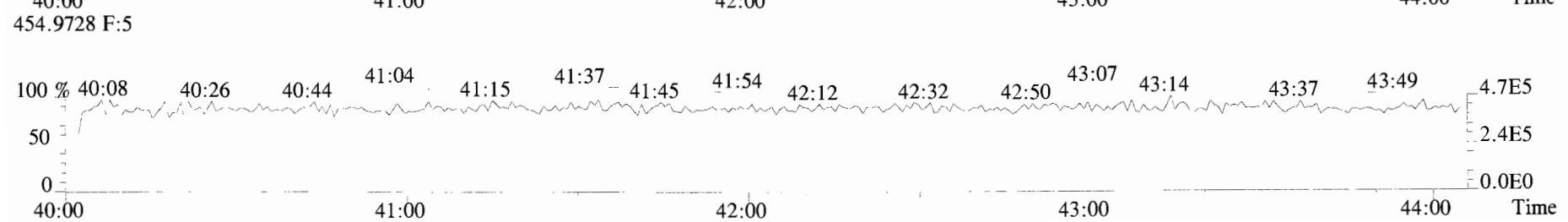
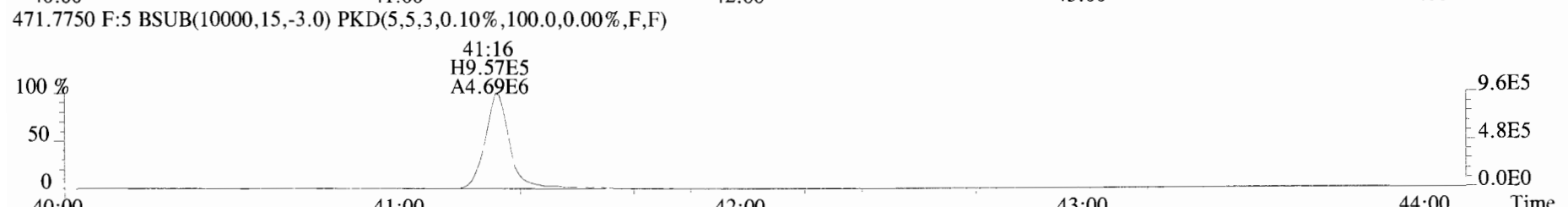
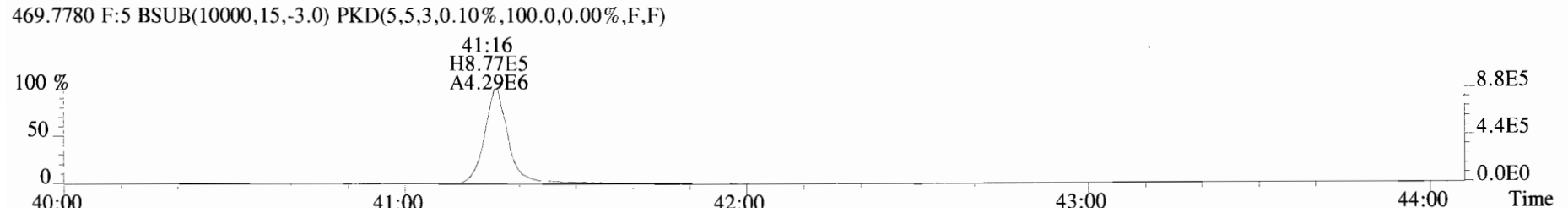
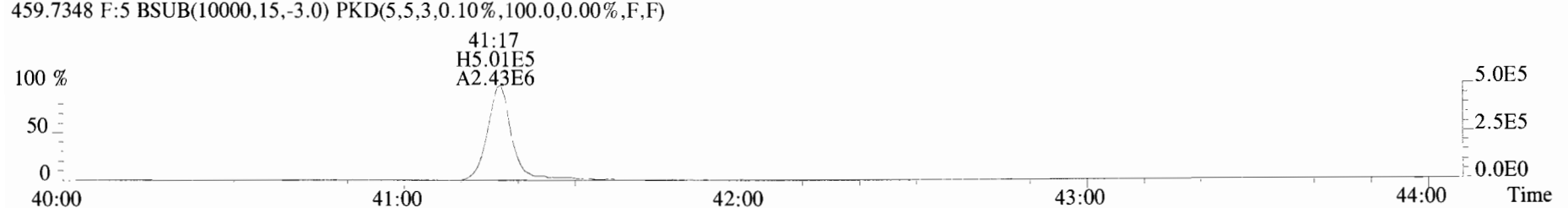
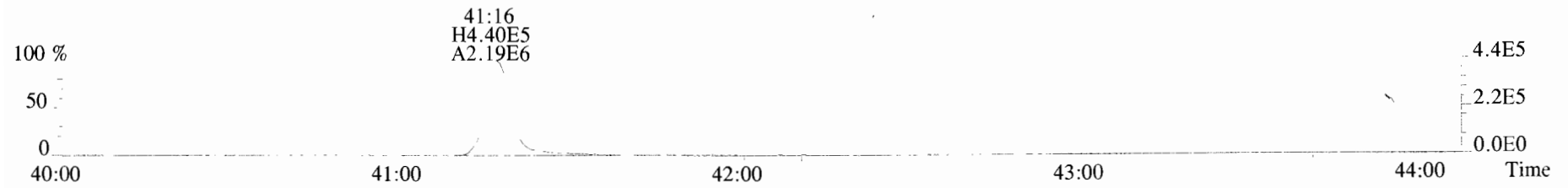




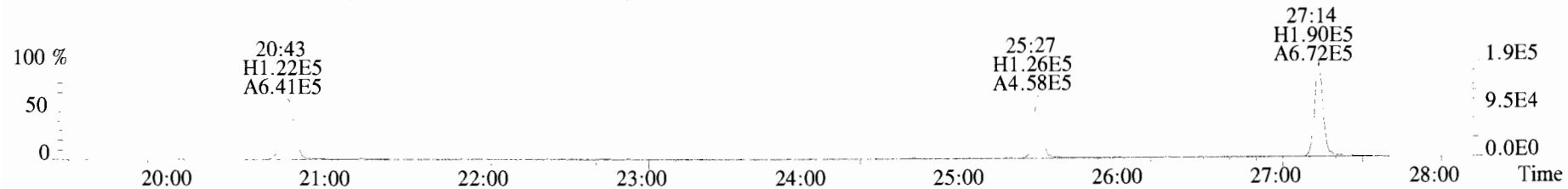
File:191028D1 #1-356 Acq:28-OCT-2019 12:13:23 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata Analytical Laboratory VG7 Text:ST191028D1-1 1612 CS3 19C2204 Exp:OCDD\_DB5  
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



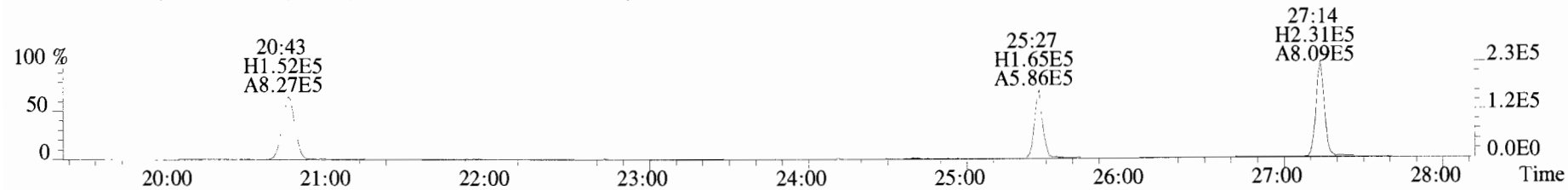
File:191028D1 #1-431 Acq:28-OCT-2019 12:13:23 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata Analytical Laboratory VG7 Text:ST191028D1-1 1612 CS3 19C2204 Exp:OCDD\_DB5  
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



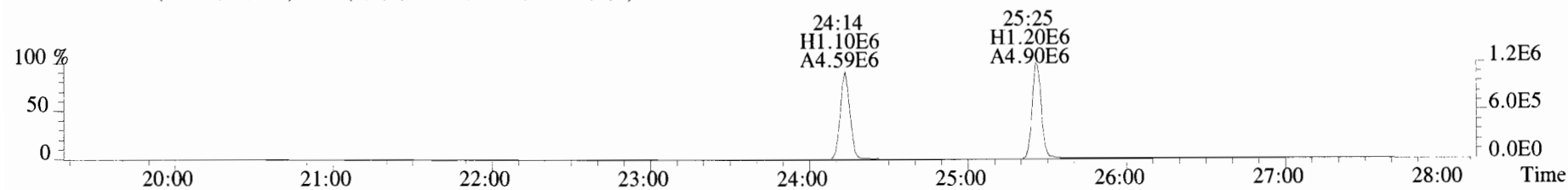
File:191028D1 #1-493 Acq:28-OCT-2019 12:13:23 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Viata Analytical Laboratory VG7 Text:ST191028D1-1 1612 CS3 19C2204 Exp:OCDD\_DB5  
 303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



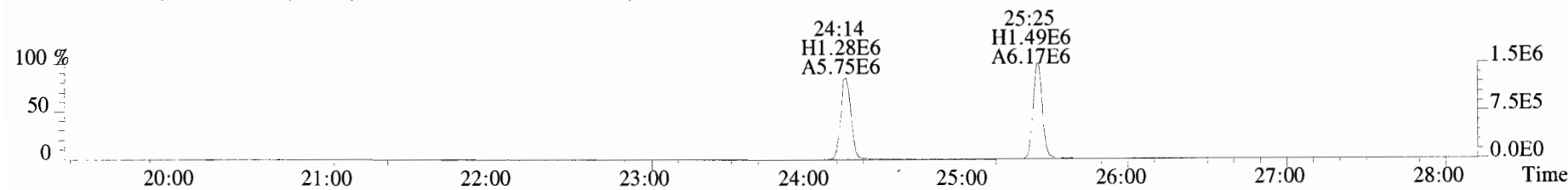
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



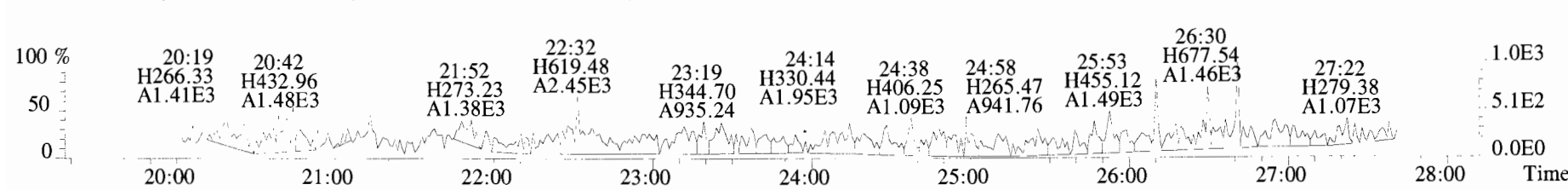
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



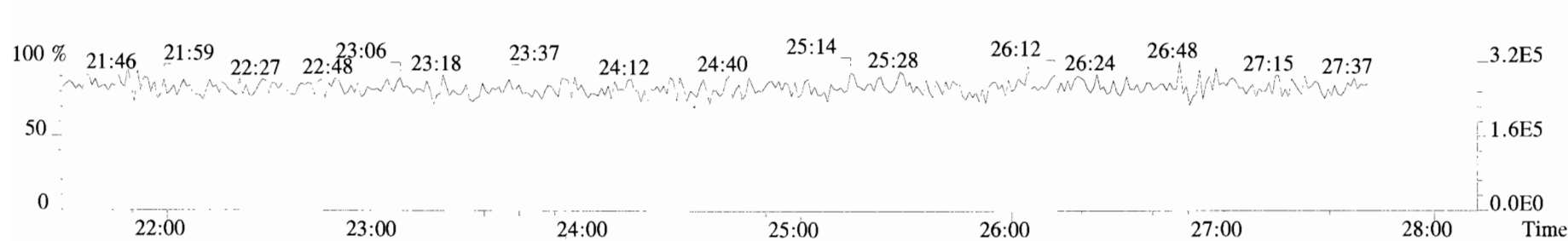
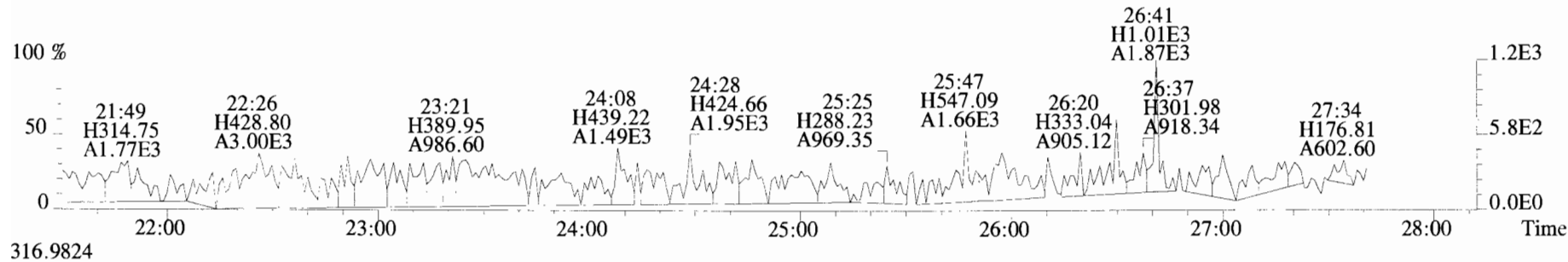
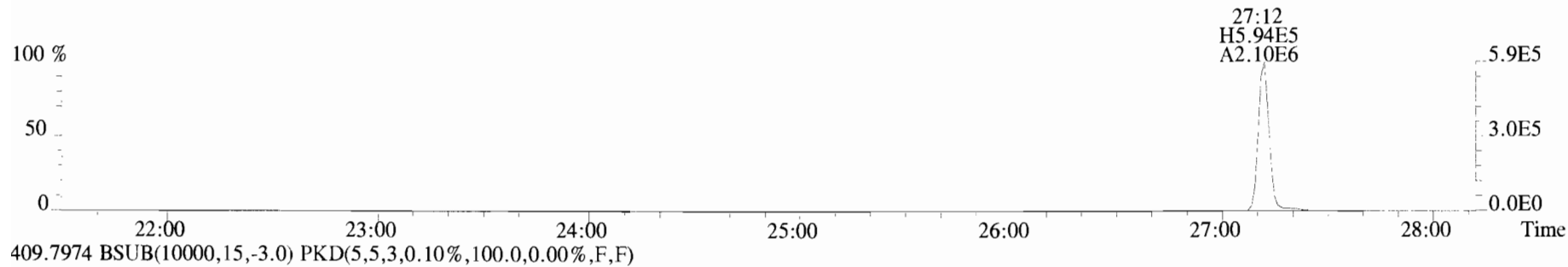
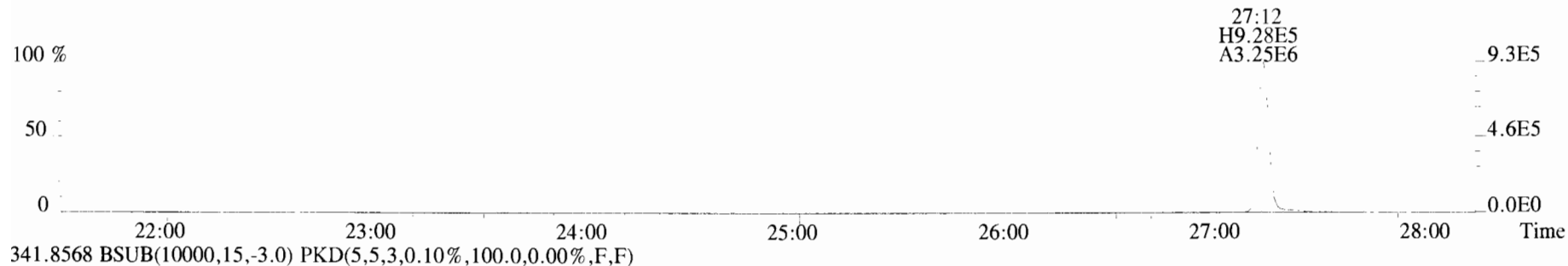
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



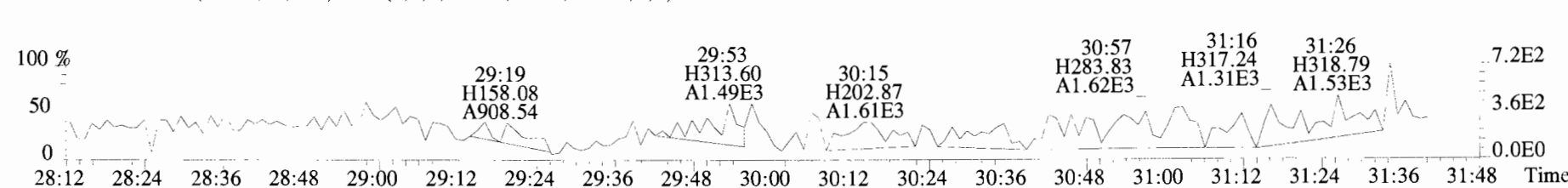
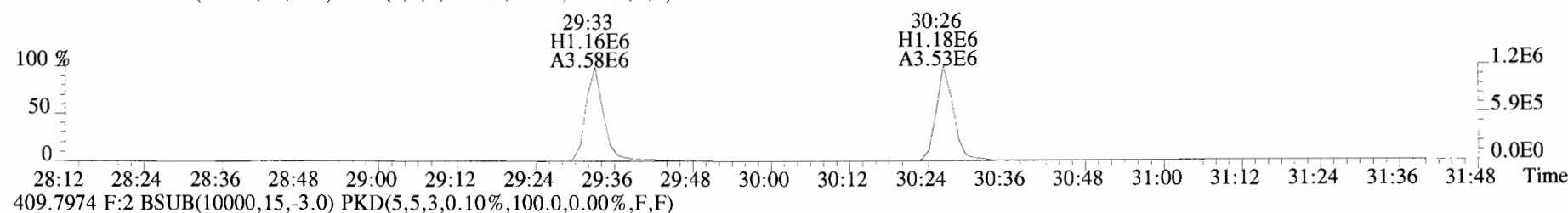
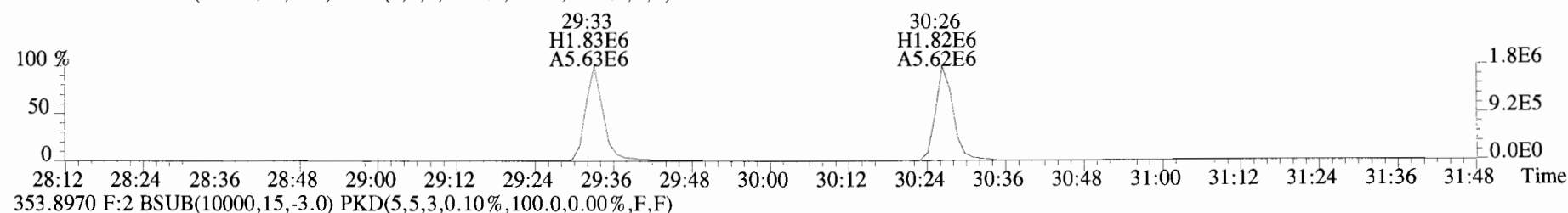
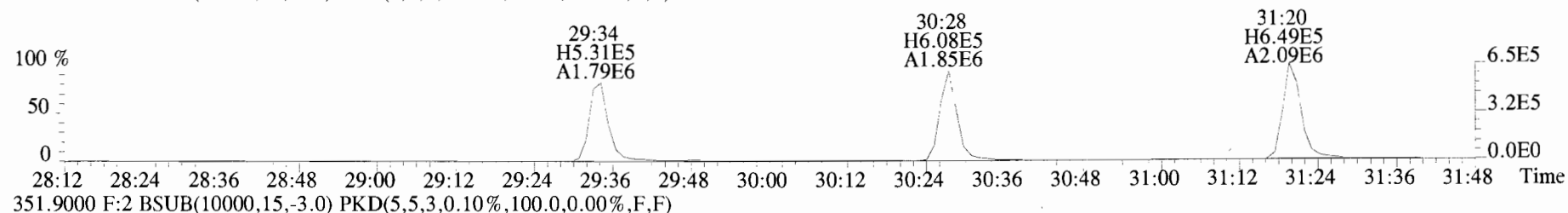
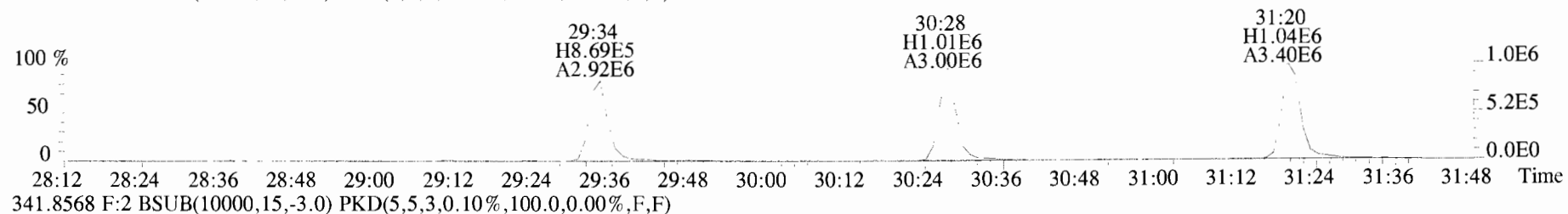
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



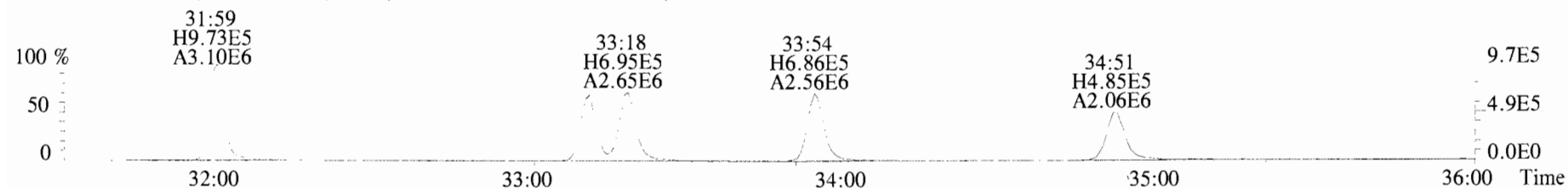
File:191028D1 #1-493 Acq:28-OCT-2019 12:13:23 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191028D1-1 1612 CS3 19C2204 Exp:OCDD\_DB5  
 339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



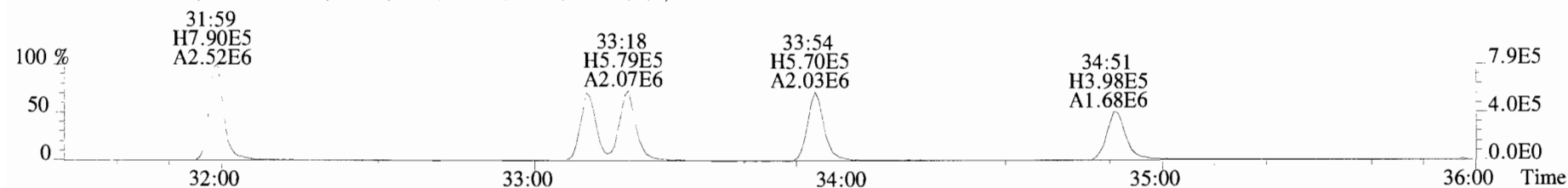
File:191028D1 #1-210 Acq:28-OCT-2019 12:13:23 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata Analytical Laboratory\_VG7 Text:ST191028D1-1 1612 CS3 19C2204 Exp:OCDD\_DB5  
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



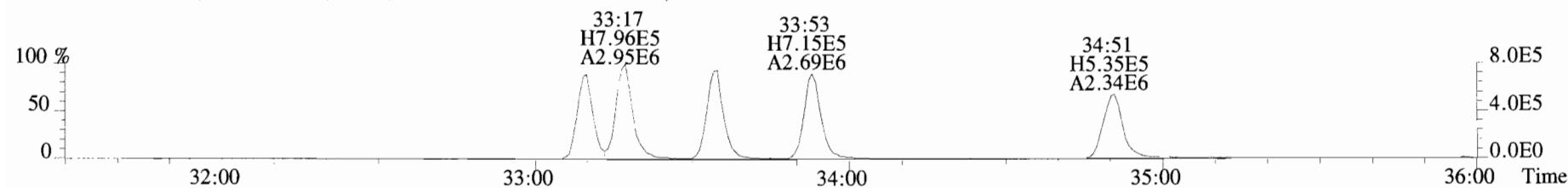
File:191028D1 #1-385 Acq:28-OCT-2019 12:13:23 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191028D1-1 1612 CS3 19C2204 Exp:OCDD\_DB5  
 373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



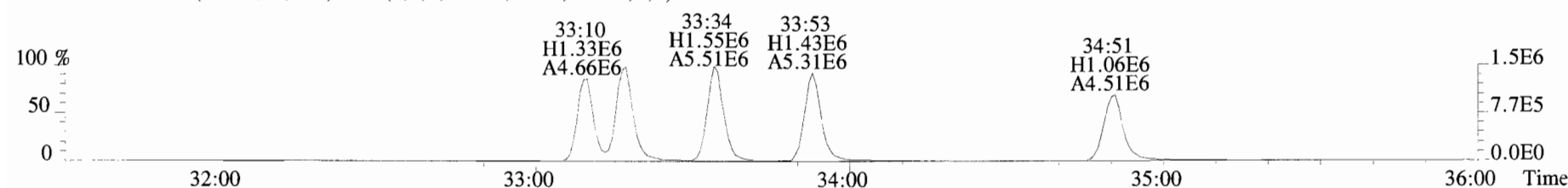
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



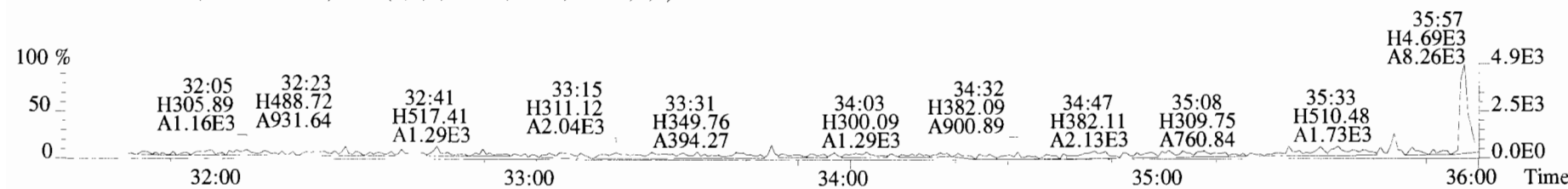
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



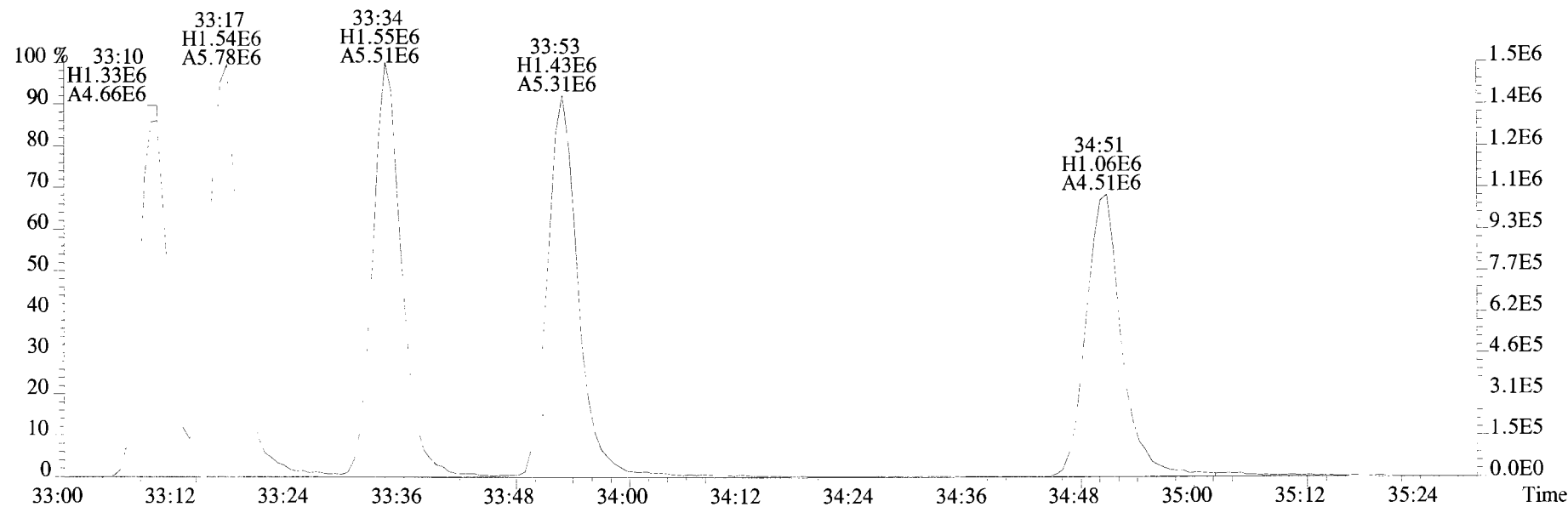
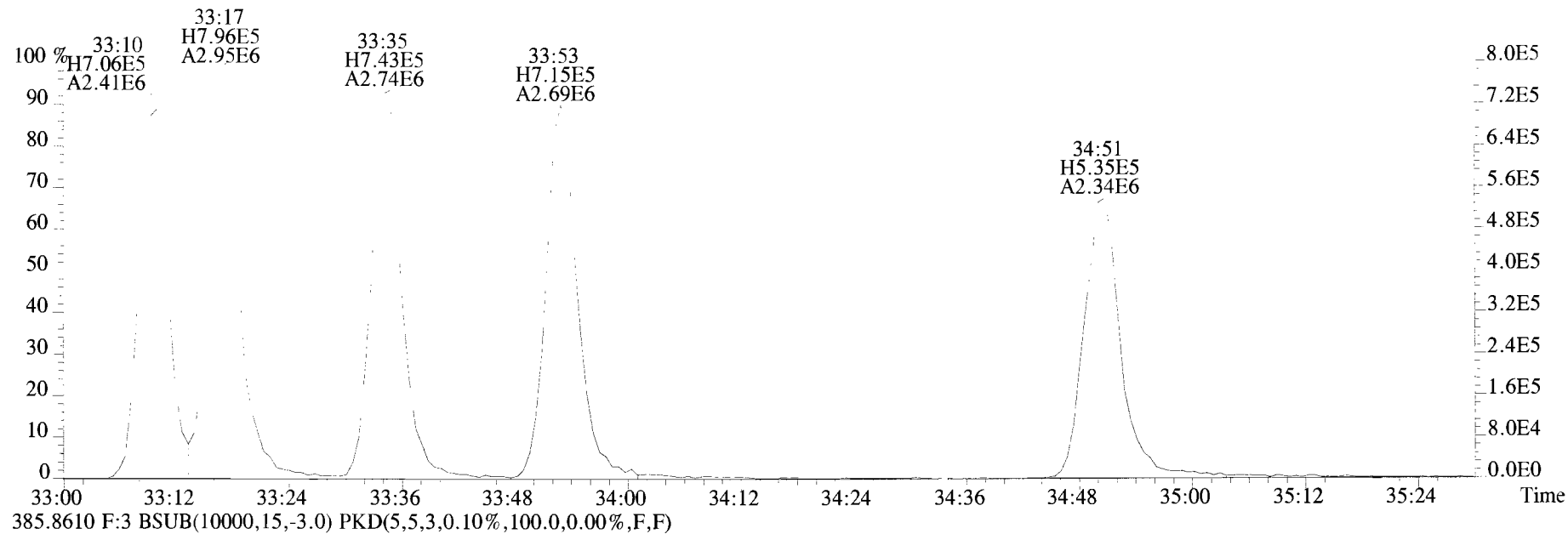
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



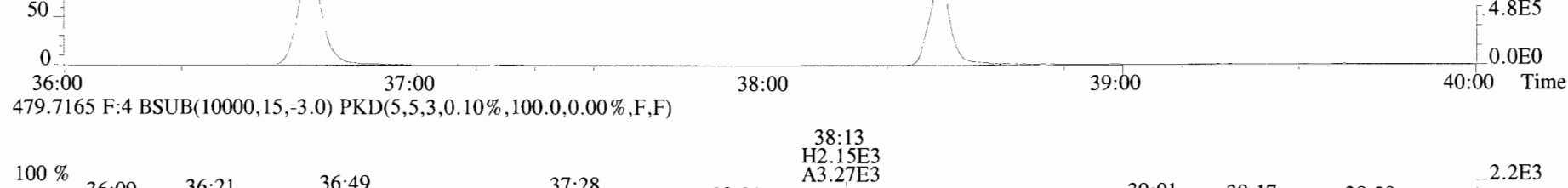
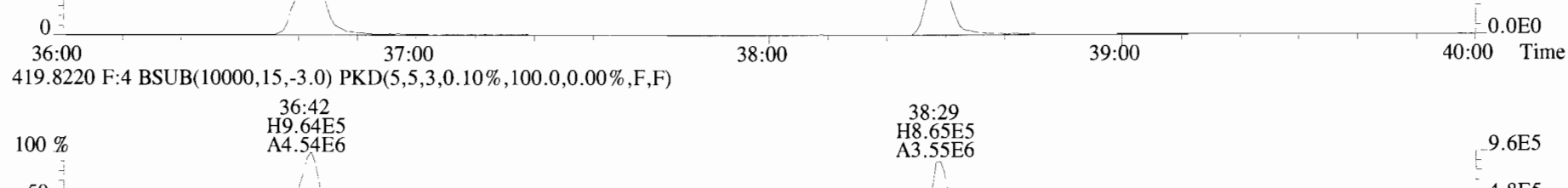
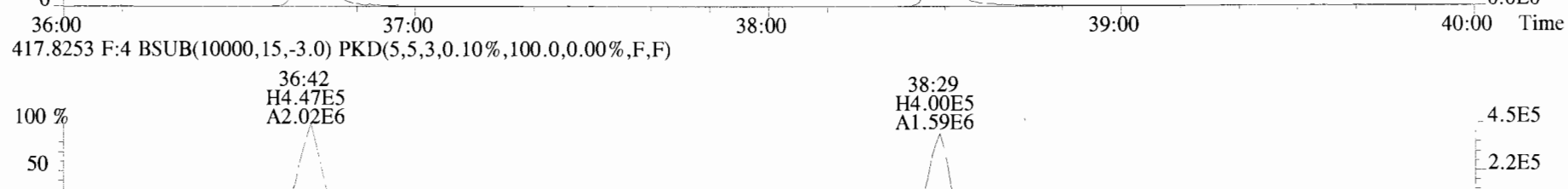
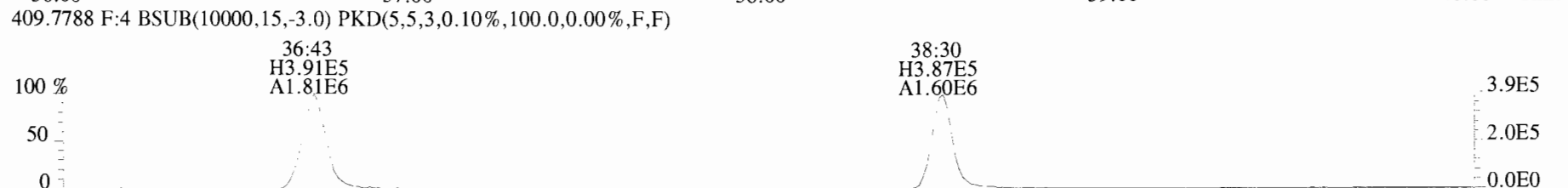
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File: 191028D1 #1-385 Acq: 28-OCT-2019 12:13:23 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Viata\_Analytical\_Laboratory\_VG7 Text: ST191028D1-1 1612 CS3 19C2204 Exp: OCDD\_DB5  
383.8639 F: 3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

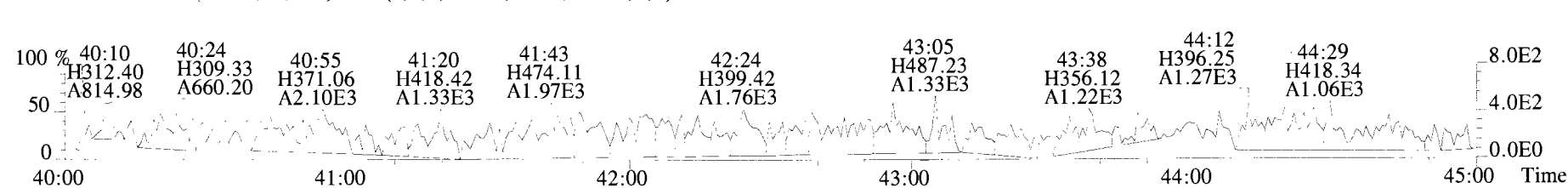
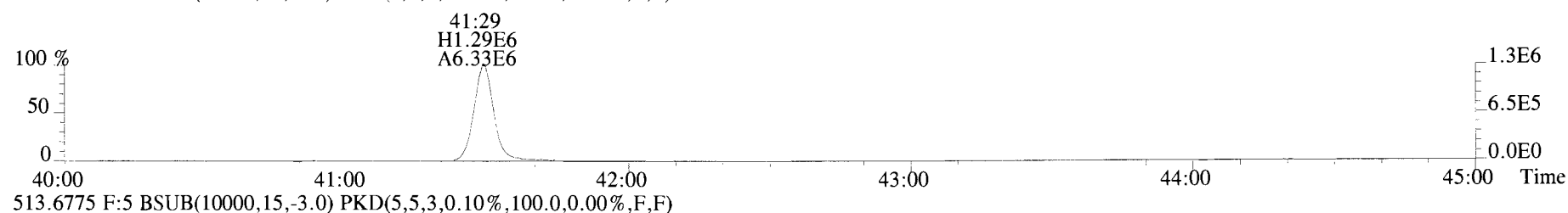
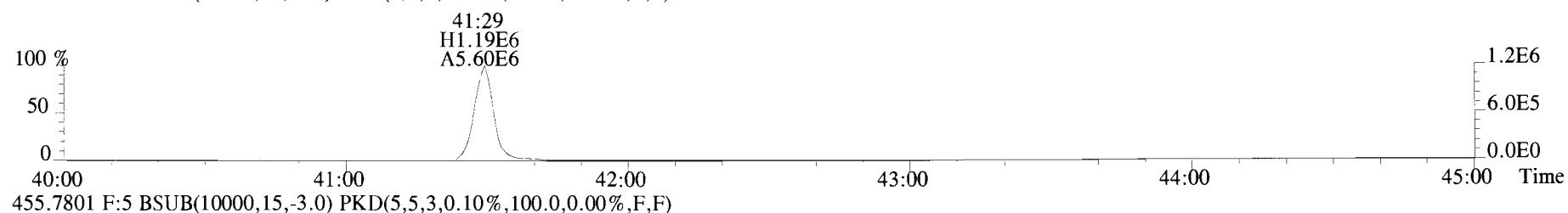
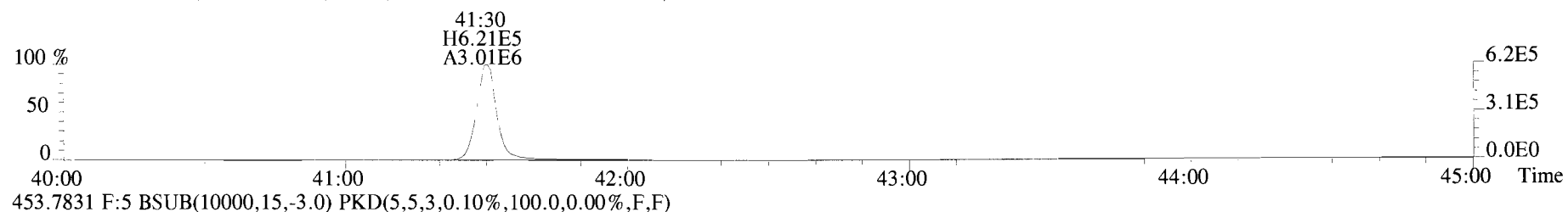
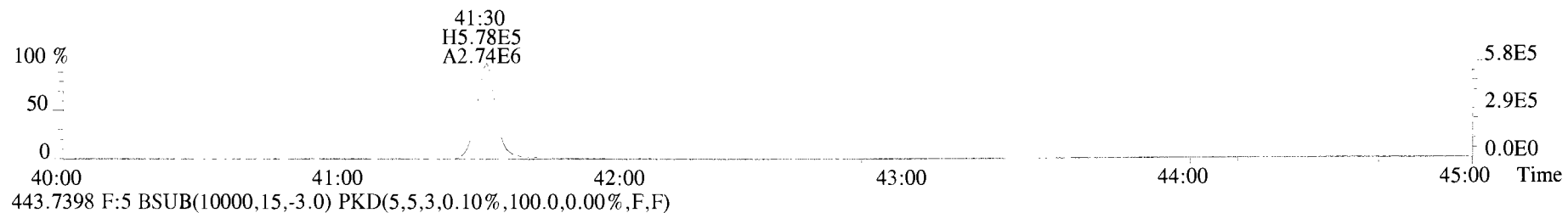


File:191028D1 #1-356 Acq:28-OCT-2019 12:13:23 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191028D1-1 1612 CS3 19C2204 Exp:OCDD\_DB5  
 407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



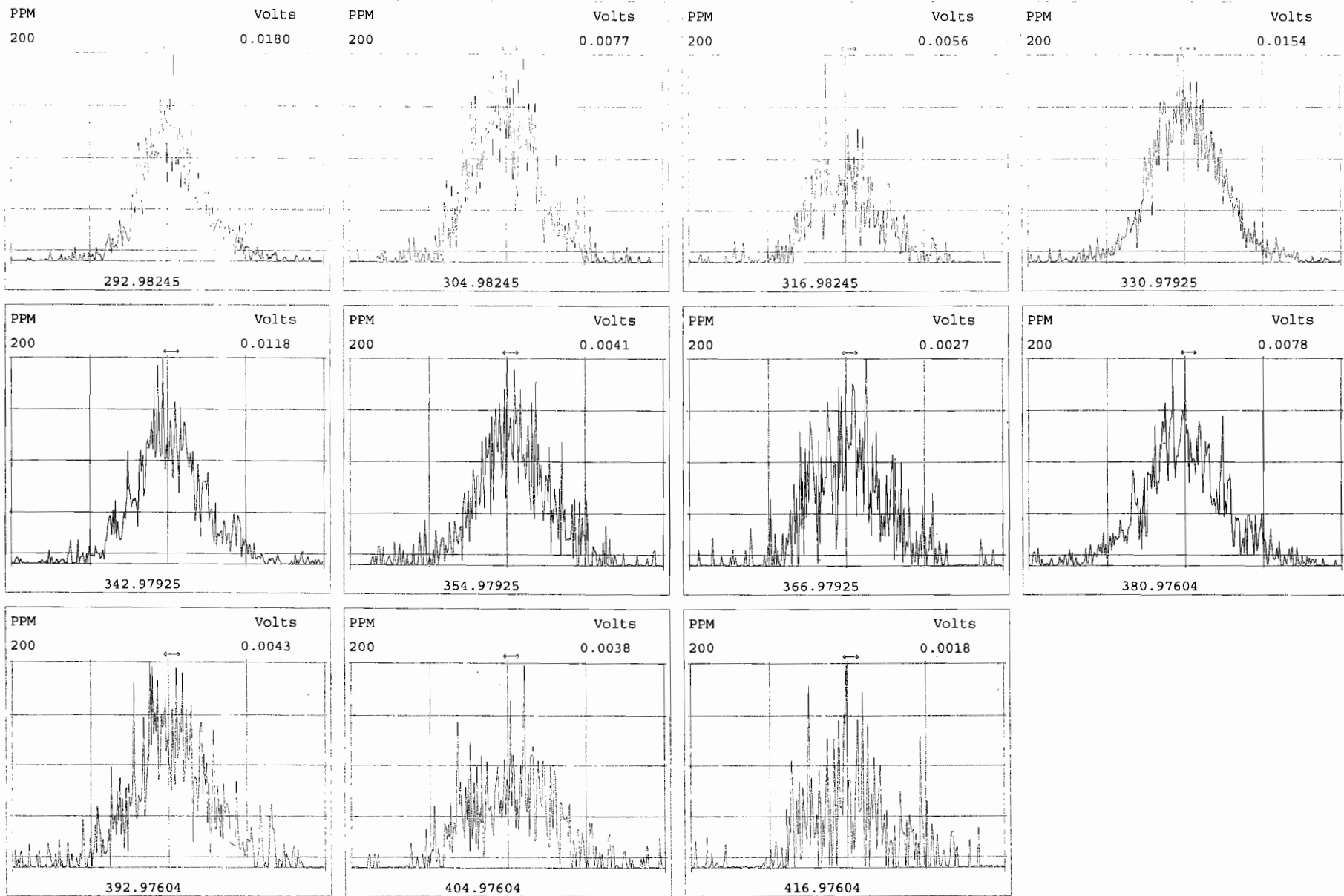


File:191028D1 #1-431 Acq:28-OCT-2019 12:13:23 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191028D1-1 1612 CS3 19C2204 Exp:OCDD\_DB5  
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



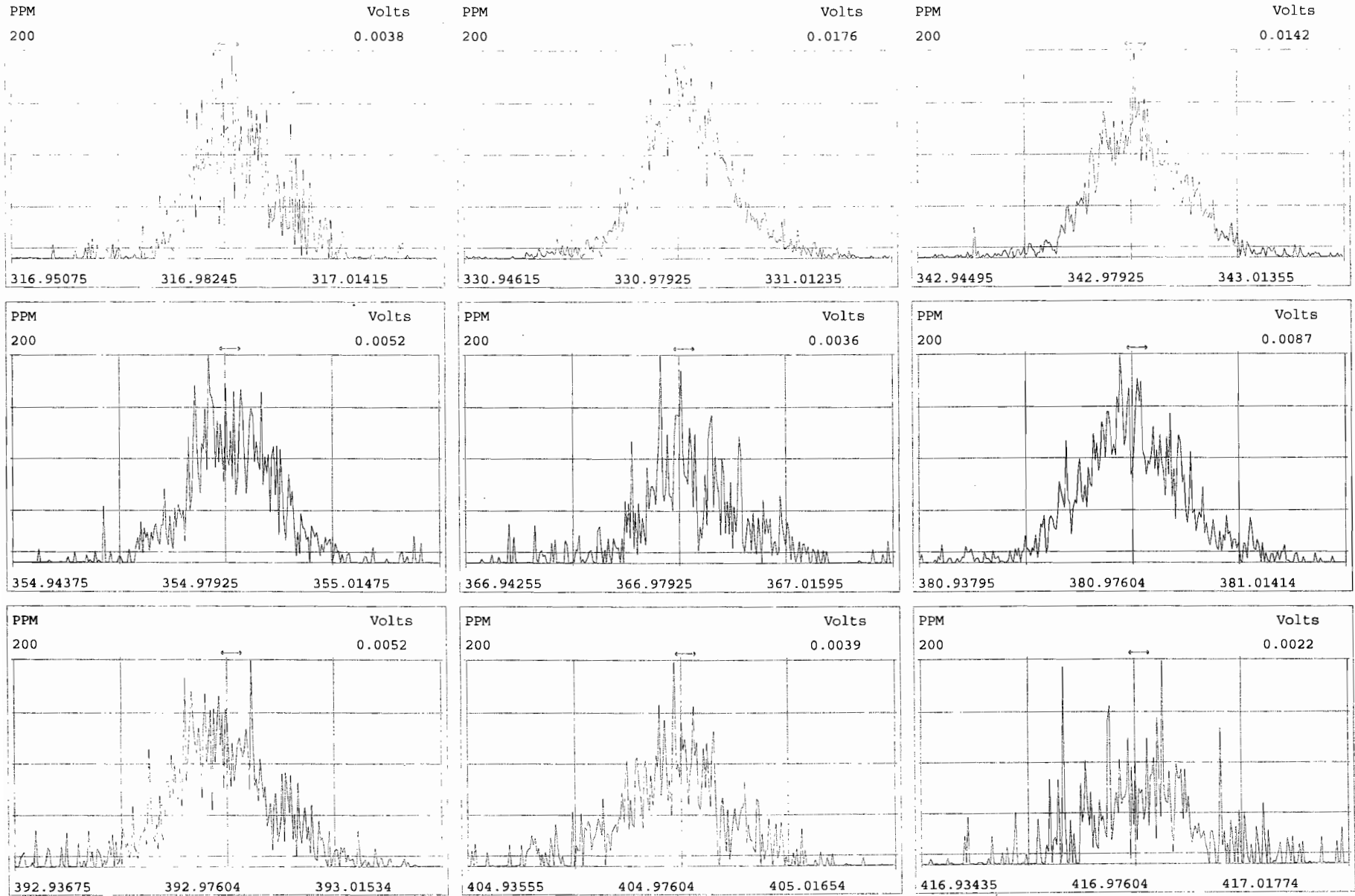
Peak Locate Examination:29-OCT-2019:01:56 File:RES\_CHECK

Experiment:OCDD\_DB5 Function:1 Reference:PFK



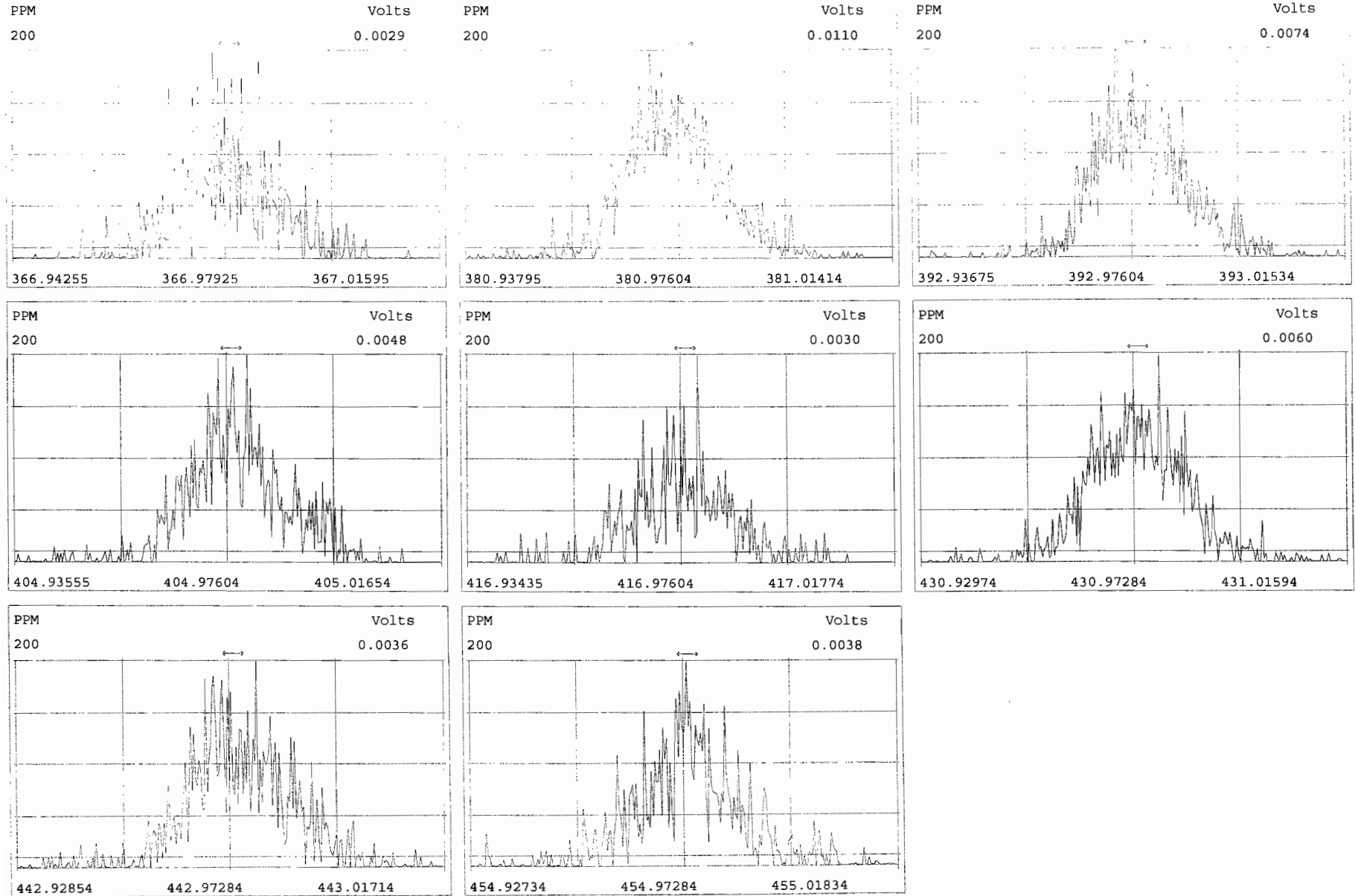
Peak Locate Examination:29-OCT-2019:01:57 File:RES\_CHECK

Experiment:OCDD\_DB5 Function:2 Reference:PFK



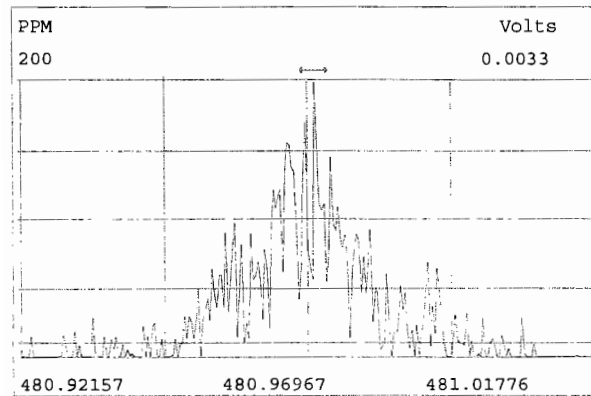
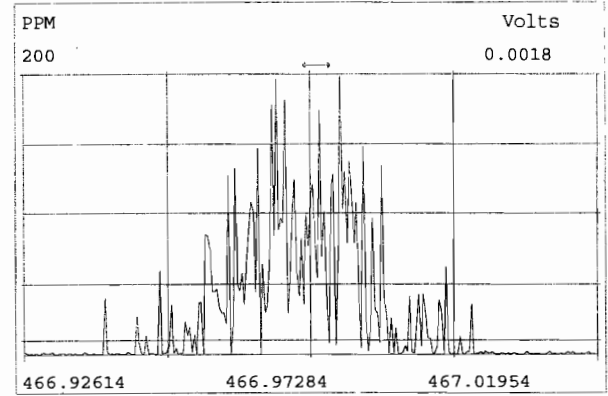
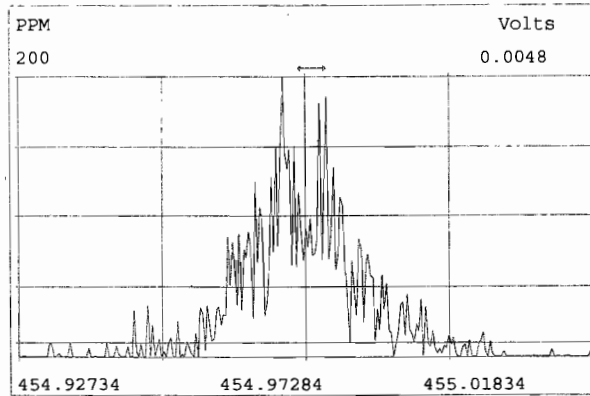
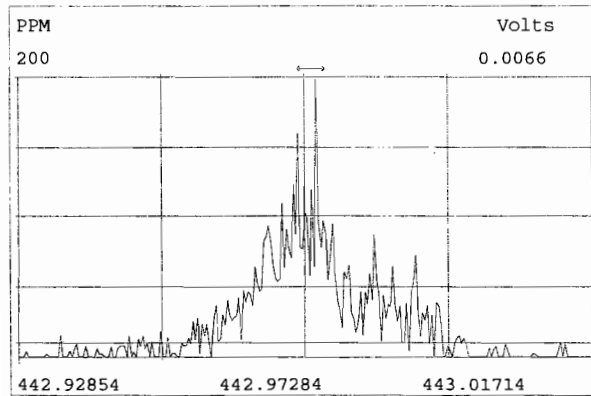
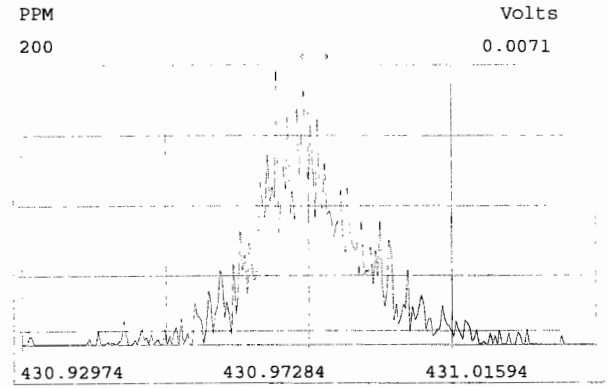
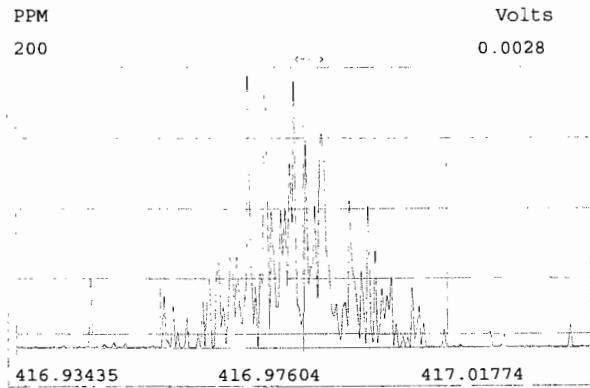
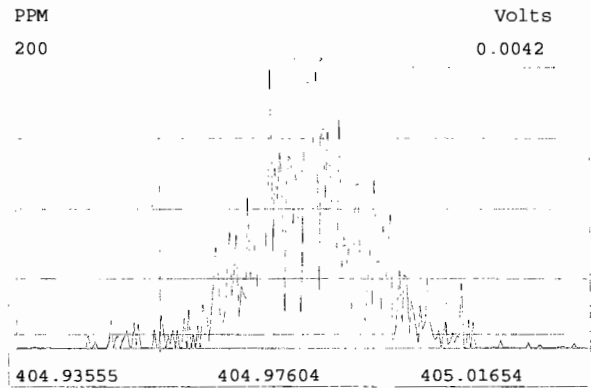
Peak Locate Examination:29-OCT-2019:01:58 File:RES\_CHECK

Experiment:OCDD\_DB5 Function:3 Reference:PFK



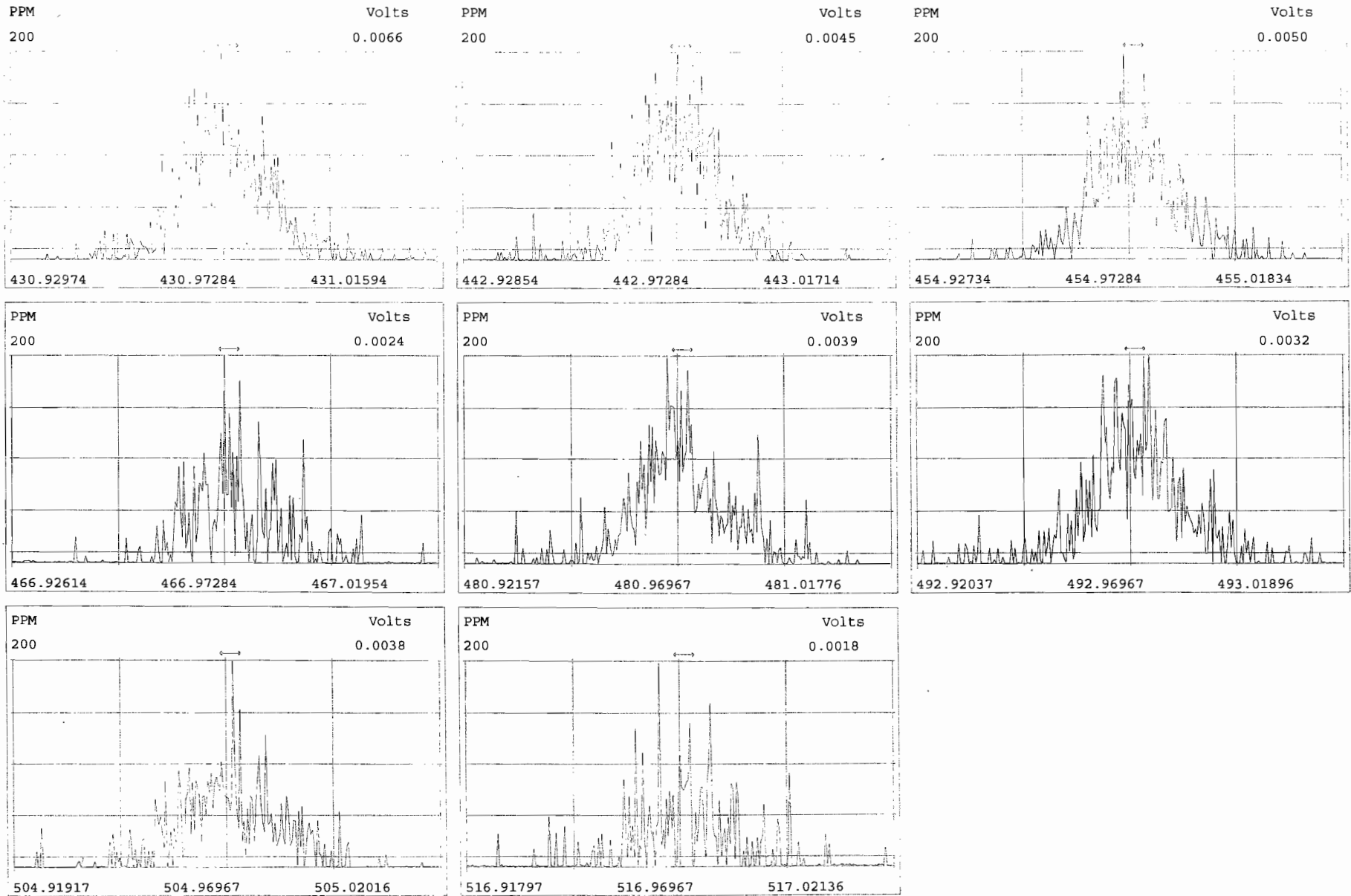
Peak Locate Examination:29-OCT-2019:01:59 File:RES\_CHECK

Experiment:OCDD\_DB5 Function:4 Reference:PFK



Peak Locate Examination:29-OCT-2019:02:00 File:RES\_CHECK

Experiment:OCDD\_DB5 Function:5 Reference:PFK



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST191217K21

**Reviewed By:** GPB 12/19/19

*Initials & Date*

**End Calibration ID:** NA

	<u>Beg.</u>	<u>End</u>
<b>Ion abundance within QC limits?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Concentrations within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>TCDD/TCDF Valleys &lt;25%</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>First and last eluters present?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Retention Times within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Verification Std. named correctly?</b> (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Forms signed and dated?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Correct ICAL referenced?</b>	<u>NA HC</u>	<u>H</u>
<b><u>Run Log:</u></b>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
- Samples within 12 hour clock?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- Bottle position verified?	<u>HC</u>	<u>HC</u>

**Mass resolution  $\geq$**

5k    6-8K    8K    10K  
 1614   1699   429   1613/1668/8280

**Intergrated peaks display correctly?**

**GC Break <20%**

**8280 CS1 End Standard:**

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

**Comments:**

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-1.qld

Last Altered: Wednesday, December 18, 2019 18:10:47 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:11:15 Pacific Standard Time

*HC 12-18-19*

*GRB 12/19/19*

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:36

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2\_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	4.66e4	5.07e5	0.74	NO	0.925	26.18	26.17	NO	1.001	1.001	9.9476	99.5	NO
2	2 1,2,3,7,8-PeCDD	1.58e5	3.40e5	0.60	NO	0.905	31.31	31.31	NO	1.001	1.001	51.251	103	NO
3	3 1,2,3,4,7,8-HxCDD	1.53e5	2.71e5	1.28	NO	1.07	34.65	34.66	NO	1.000	1.001	52.807	106	NO
4	4 1,2,3,6,7,8-HxCDD	1.66e5	3.23e5	1.27	NO	0.967	34.75	34.76	NO	1.000	1.000	52.912	106	NO
5	5 1,2,3,7,8,9-HxCDD	1.49e5	3.03e5	1.34	NO	0.978	35.04	35.03	NO	1.001	1.001	50.317	101	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.18e5	2.38e5	1.09	NO	1.04	38.53	38.53	NO	1.000	1.000	47.683	95.4	NO
7	7 OCDD	1.97e5	3.77e5	0.90	NO	0.972	41.78	41.79	NO	1.000	1.000	107.58	108	NO
8	8 2,3,7,8-TCDF	6.98e4	7.21e5	0.78	NO	0.938	25.18	25.19	NO	1.001	1.001	10.332	103	NO
9	9 1,2,3,7,8-PeCDF	2.74e5	5.15e5	1.61	NO	0.976	30.00	30.00	NO	1.001	1.001	54.361	109	NO
10	10 2,3,4,7,8-PeCDF	2.69e5	4.95e5	1.58	NO	1.00	31.00	30.99	NO	1.001	1.001	53.946	108	NO
11	11 1,2,3,4,7,8-HxCDF	2.48e5	3.81e5	1.28	NO	1.24	33.78	33.79	NO	1.000	1.000	52.299	105	NO
12	12 1,2,3,6,7,8-HxCDF	2.64e5	4.50e5	1.29	NO	1.10	33.90	33.91	NO	1.000	1.001	53.450	107	NO
13	13 2,3,4,6,7,8-HxCDF	2.64e5	4.20e5	1.29	NO	1.18	34.51	34.48	NO	1.001	1.000	53.263	107	NO
14	14 1,2,3,7,8,9-HxCDF	2.02e5	3.54e5	1.26	NO	1.07	35.35	35.37	NO	1.000	1.001	53.047	106	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.07e5	3.45e5	1.09	NO	1.13	37.13	37.10	NO	1.001	1.000	52.991	106	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.59e5	2.31e5	1.10	NO	1.26	39.12	39.15	NO	1.000	1.001	54.661	109	NO
17	17 OCDF	2.67e5	5.19e5	0.91	NO	1.10	41.97	41.98	NO	1.000	1.000	93.359	93.4	NO
18	18 13C-2,3,7,8-TCDD	5.07e5	4.69e5	0.77	NO	1.05	26.15	26.15	NO	1.027	1.028	102.98	103	NO
19	19 13C-1,2,3,7,8-PeCDD	3.40e5	4.69e5	0.61	NO	0.743	31.29	31.29	NO	1.230	1.229	97.570	97.6	NO
20	20 13C-1,2,3,4,7,8-HxCDD	2.71e5	4.67e5	1.23	NO	0.646	34.64	34.64	NO	1.014	1.014	89.816	89.8	NO
21	21 13C-1,2,3,6,7,8-HxCDD	3.23e5	4.67e5	1.23	NO	0.777	34.73	34.75	NO	1.017	1.017	89.079	89.1	NO
22	22 13C-1,2,3,7,8,9-HxCDD	3.03e5	4.67e5	1.22	NO	0.659	35.01	35.01	NO	1.025	1.025	98.202	98.2	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.38e5	4.67e5	1.13	NO	0.534	38.51	38.52	NO	1.127	1.128	95.286	95.3	NO
24	24 13C-OCDD	3.77e5	4.67e5	0.89	NO	0.470	41.79	41.78	NO	1.223	1.223	171.54	85.8	NO
25	25 13C-2,3,7,8-TCDF	7.21e5	7.02e5	0.73	NO	0.977	25.16	25.16	NO	0.989	0.989	105.03	105	NO
26	26 13C-1,2,3,7,8-PeCDF	5.15e5	7.02e5	1.48	NO	0.778	29.98	29.98	NO	1.178	1.178	94.370	94.4	NO
27	27 13C-2,3,4,7,8-PeCDF	4.95e5	7.02e5	1.52	NO	0.750	30.97	30.97	NO	1.217	1.217	94.069	94.1	NO
28	28 13C-1,2,3,4,7,8-HxCDF	3.81e5	4.67e5	0.54	NO	0.845	33.77	33.78	NO	0.989	0.989	96.398	96.4	NO
29	29 13C-1,2,3,6,7,8-HxCDF	4.50e5	4.67e5	0.54	NO	1.03	33.89	33.89	NO	0.992	0.992	93.832	93.8	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.20e5	4.67e5	0.52	NO	0.893	34.46	34.47	NO	1.009	1.009	100.62	101	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.54e5	4.67e5	0.55	NO	0.734	35.37	35.35	NO	1.035	1.035	103.17	103	NO



Dataset: U:\VG11.PRO\Results\191217K2\191217K2-1.qld

Last Altered: Wednesday, December 18, 2019 18:10:47 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:11:15 Pacific Standard Time

Name: 191217K2\_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.45e5	4.67e5	0.44	NO	0.754	37.08	37.09	NO	1.085	1.086	97.965	98.0	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.31e5	4.67e5	0.47	NO	0.539	39.11	39.12	NO	1.145	1.145	91.735	91.7	NO
34	34 13C-OCDF	5.19e5	4.67e5	0.87	NO	0.593	41.97	41.97	NO	1.229	1.228	187.30	93.7	NO
35	35 37Cl-2,3,7,8-TCDD	5.03e4	4.69e5			1.07	26.17	26.17	NO	1.028	1.028	10.016	100	NO
36	36 13C-1,2,3,4-TCDD	4.69e5	4.69e5	0.80	NO	1.00	25.45	25.45	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	7.02e5	7.02e5	0.75	NO	1.00	23.55	23.55	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	4.67e5	4.67e5	0.53	NO	1.00	34.16	34.16	NO	1.000	1.000	100.00	100	NO

Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:00:16 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57  
Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	191217K2_1	ST191217K2-1 1613 CS3 19C2204	17-Dec-19	13:52:02
2	191217K2_2	B9J0322-BS1 OPR 10	17-Dec-19	14:39:35
3	191217K2_3	SOLVENT BLANK	17-Dec-19	15:27:59
4	191217K2_4	B9J0322-BLK1 Method Blank 10	17-Dec-19	16:16:19
5	191217K2_5	1903742-05 PDI-1069SC-A-13-14.3-191016 1...	17-Dec-19	17:04:40
6	191217K2_6	1903742-06 PDI-022SC-A-11-12-191016 11.41	17-Dec-19	17:53:02
7	191217K2_7	1903742-07 PDI-022SC-A-12-13.1-191016 13....	17-Dec-19	18:42:37
8	191217K2_8	B9J0322-DUP1 Duplicate 15.31	17-Dec-19	19:30:44
9	191217K2_9	1903648-01 PDI-073SC-A-11-12-191013 15.27	17-Dec-19	20:18:05
10	191217K2_10	1903648-02 PDI-073SC-A-12-12.6-191013 14....	17-Dec-19	21:06:27
11	191217K2_11	1903648-03 PDI-1073SC-A-12-12.6-191013 1...	17-Dec-19	21:54:47
12	191217K2_12	1903648-04 PDI-075SC-A-14-15-191013 15.95	17-Dec-19	22:43:08
13	191217K2_13	1903648-05 PDI-075SC-A-15-16-191013 15.4	17-Dec-19	23:32:25
14	191217K2_14	1903648-06 PDI-076SC-A-10-11-191013 13.56	18-Dec-19	00:19:49
15	191217K2_15	1903648-07 PDI-076SC-A-11-11.9-191013 14.2	18-Dec-19	01:09:29

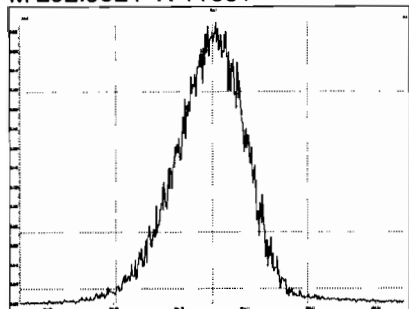
Experiment Calibration Report

MassLynx 4.1 SCN815

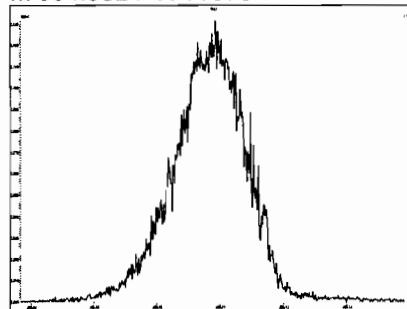
File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, December 17, 2019 13:45:39 Pacific Standard Time

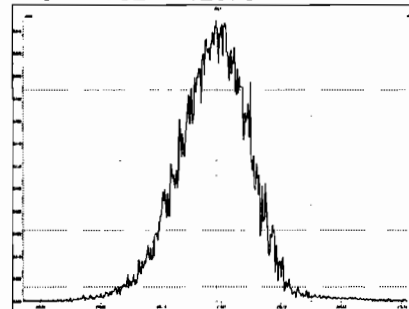
M 292.9824 R 11681



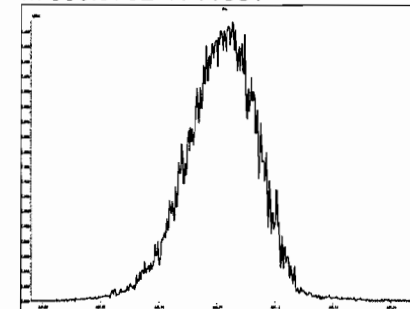
M 304.9824 R 11679



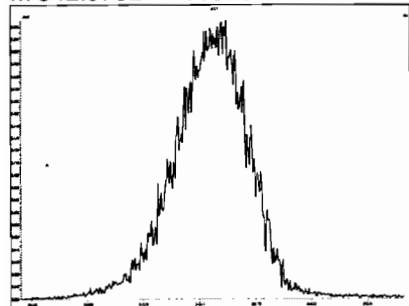
M 318.9792 R 12378



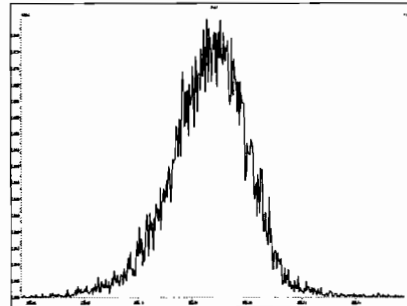
M 330.9792 R 11961



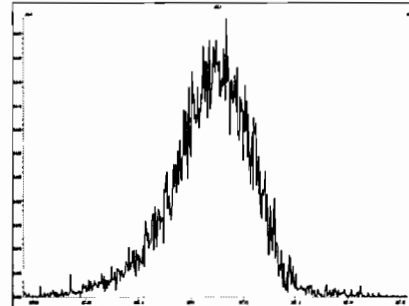
M 342.9792 R 11366



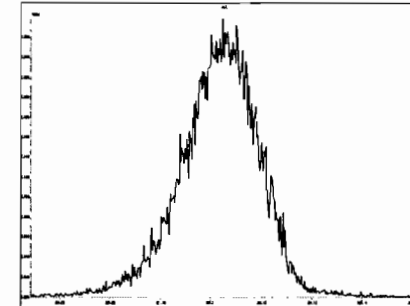
M 354.9792 R 10639



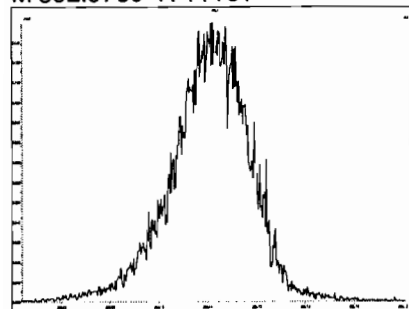
M 366.9792 R 11525



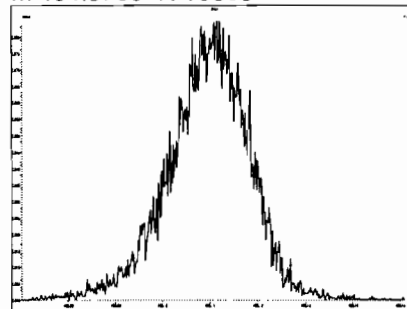
M 380.9760 R 11630



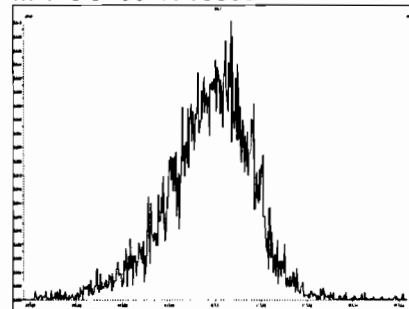
M 392.9760 R 11161



M 404.9760 R 10869



M 416.9760 R 10506



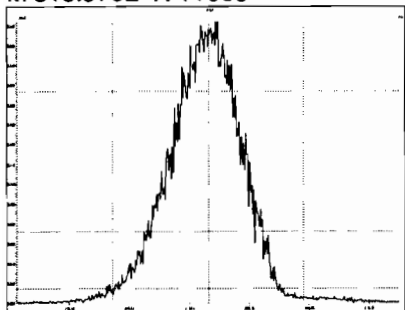
Experiment Calibration Report

MassLynx 4.1 SCN815

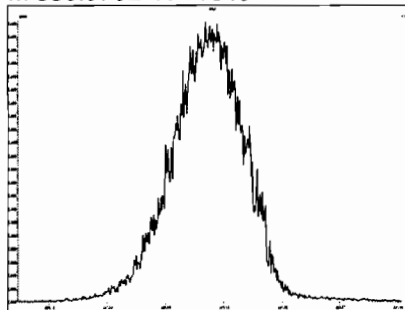
File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, December 17, 2019 13:46:41 Pacific Standard Time

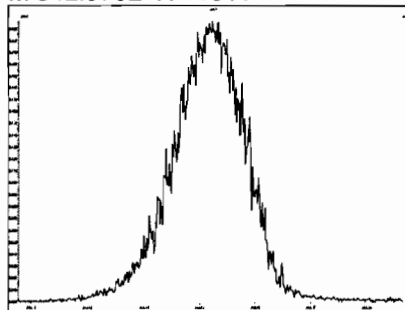
M 318.9792 R 11685



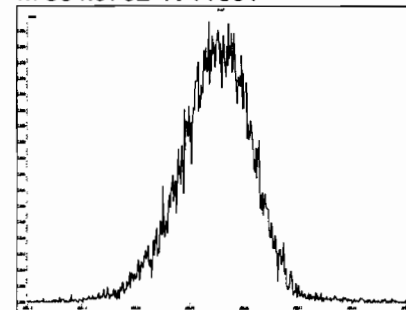
M 330.9792 R 11849



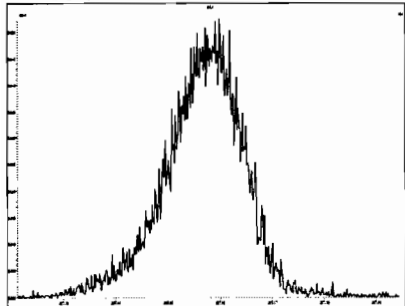
M 342.9792 R 11311



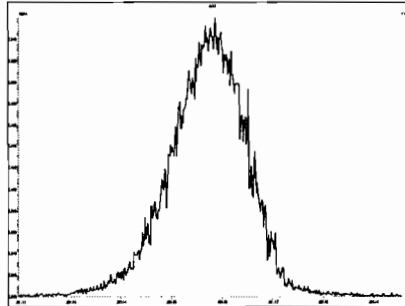
M 354.9792 R 11851



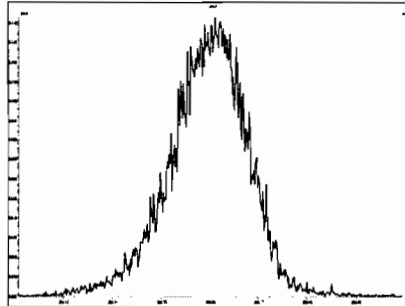
M 366.9792 R 11161



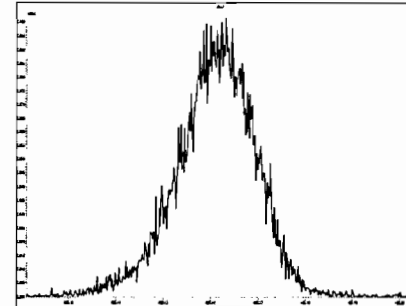
M 380.9760 R 11467



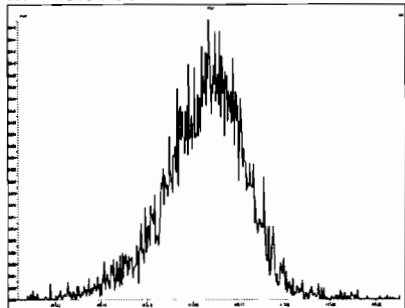
M 392.9760 R 10915



M 404.9760 R 10505



M 416.9760 R 11573



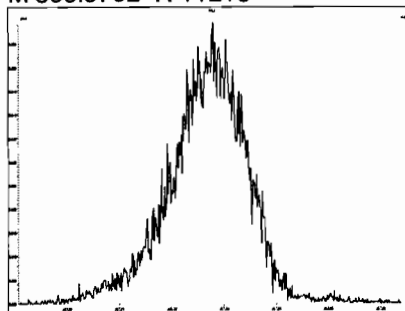
Experiment Calibration Report

MassLynx 4.1 SCN815

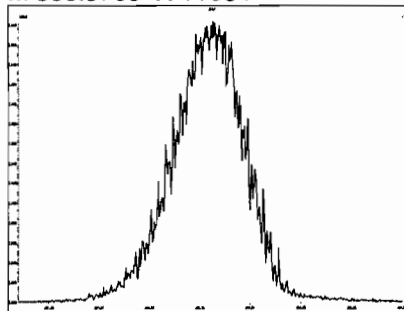
File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, December 17, 2019 13:48:04 Pacific Standard Time

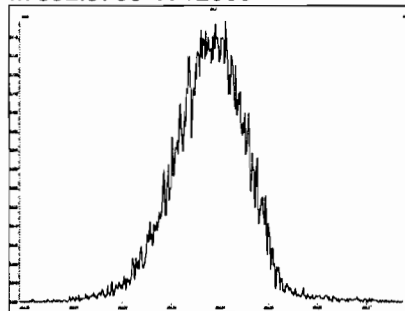
M 366.9792 R 11213



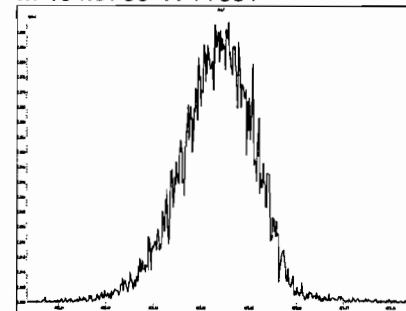
M 380.9760 R 11684



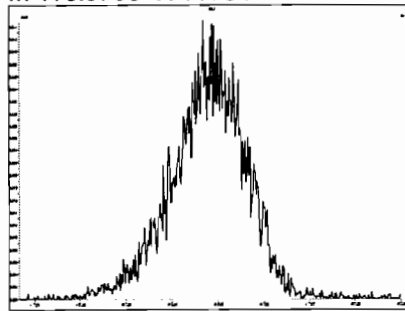
M 392.9760 R 12500



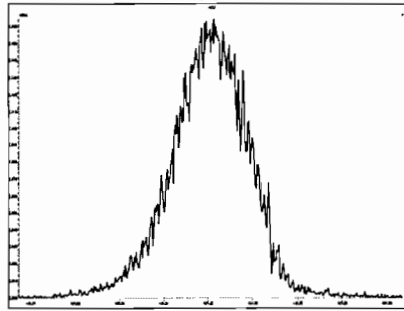
M 404.9760 R 11631



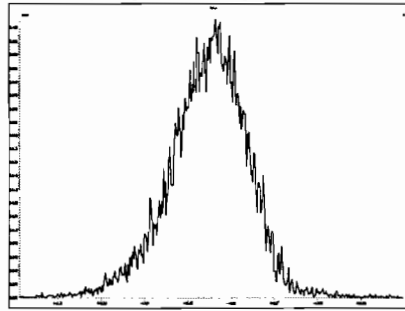
M 416.9760 R 11734



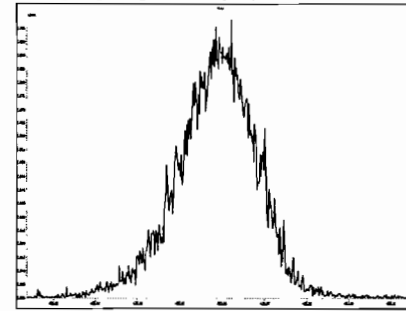
M 430.9728 R 10961



M 442.9728 R 11110



M 454.9728 R 11846



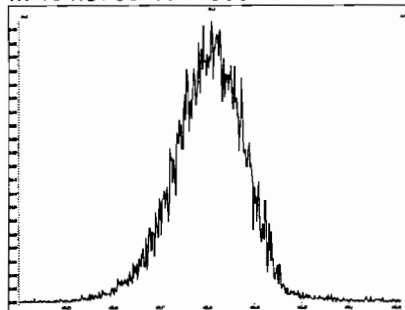
Experiment Calibration Report

MassLynx 4.1 SCN815

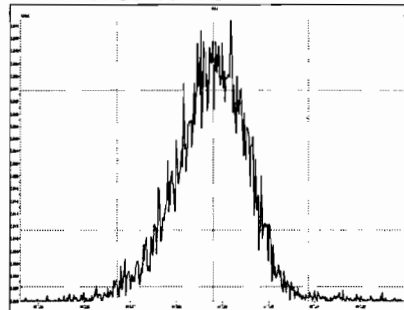
File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, December 17, 2019 13:49:48 Pacific Standard Time

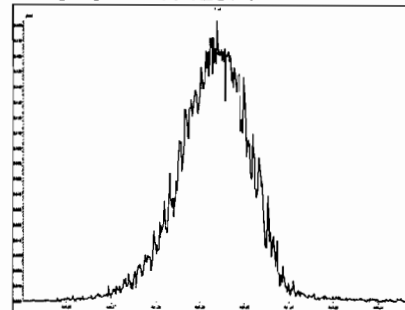
M 404.9760 R 11363



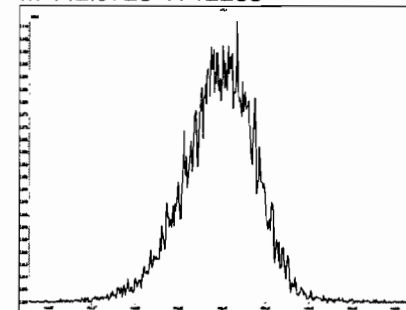
M 416.9760 R 12314



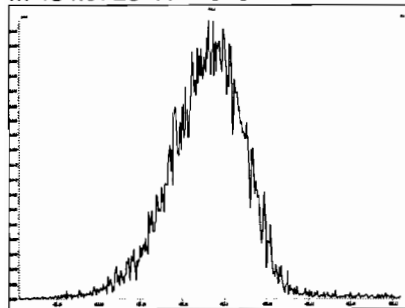
M 430.9728 R 12374



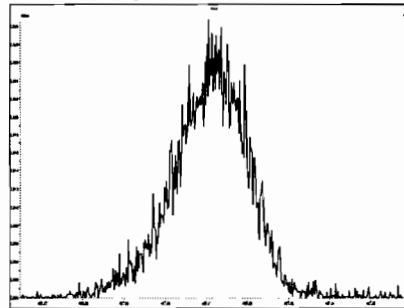
M 442.9728 R 12255



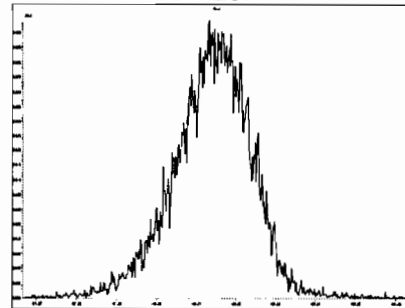
M 454.9728 R 11363



M 466.9728 R 12134



M 480.9696 R 11262

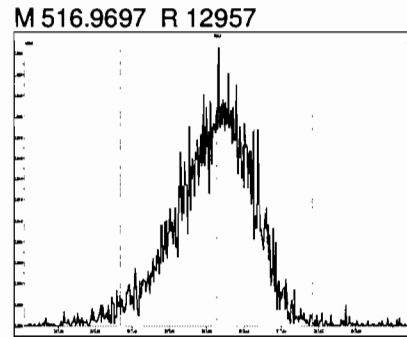
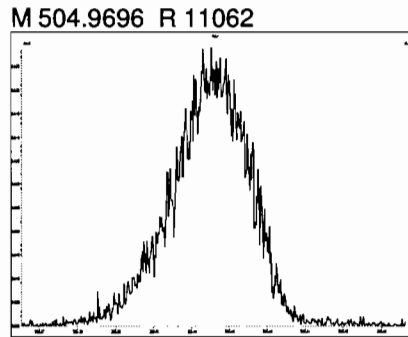
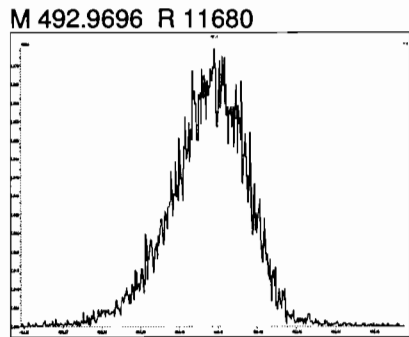
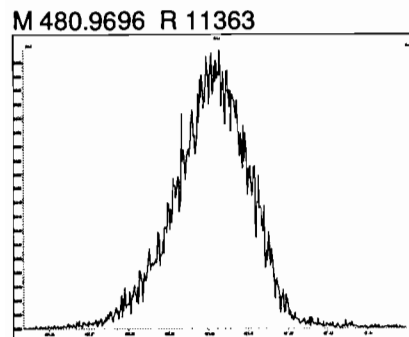
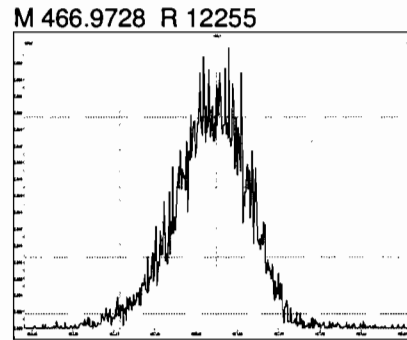
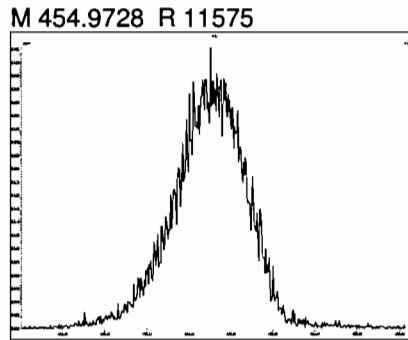
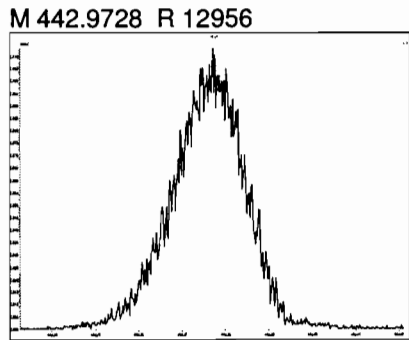
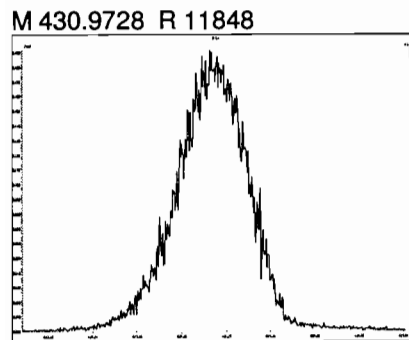


Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, December 17, 2019 13:50:29 Pacific Standard Time



Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 17:56:33 Pacific Standard Time

Printed: Wednesday, December 18, 2019 17:56:46 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\CPSM.mdb 18 Dec 2019 17:57:56

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2\_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

#	Name	RT
1	1,3,6,8-TCDD (First)	21.84
2	1,2,8,9-TCDD (Last)	27.19
3	1,2,4,7,9-PeCDD (First)	29.08
4	1,2,3,8,9-PeCDD (Last)	31.69
5	1,2,4,6,7,9-HxCDD (First)	33.19
6	1,2,3,7,8,9-HxCDD (Last)	35.03
7	1,2,3,4,6,7,9-HpCDD (First)	37.50
8	1,2,3,4,6,7,8-HpCDD (Last)	38.53
9	1,3,6,8-TCDF (First)	19.79
10	1,2,8,9-TCDF (Last)	27.33
11	1,3,4,6,8-PeCDF (First)	27.31
12	1,2,3,8,9-PeCDF (Last)	31.93
13	1,2,3,4,6,8-HxCDF (First)	32.64
14	1,2,3,7,8,9-HxCDF (Last)	35.37
15	1,2,3,4,6,7,8-HpCDF (First)	37.11
16	1,2,3,4,7,8,9-HpCDF (Last)	39.15



Dataset: Untitled

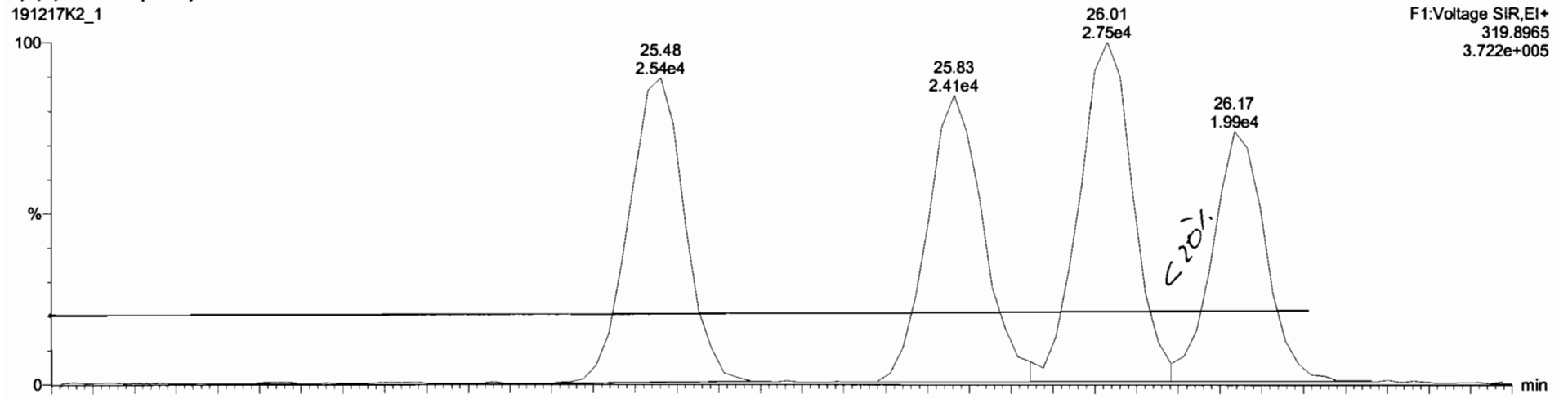
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Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

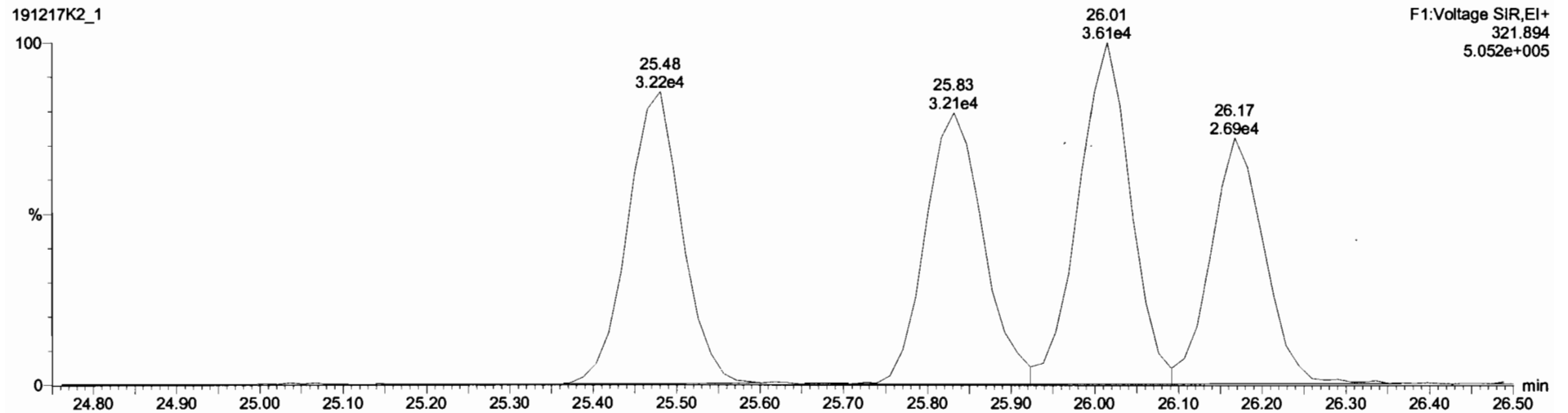
Name: 191217K2\_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

1,3,6,8-TCDD (First)

191217K2\_1



191217K2\_1



Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

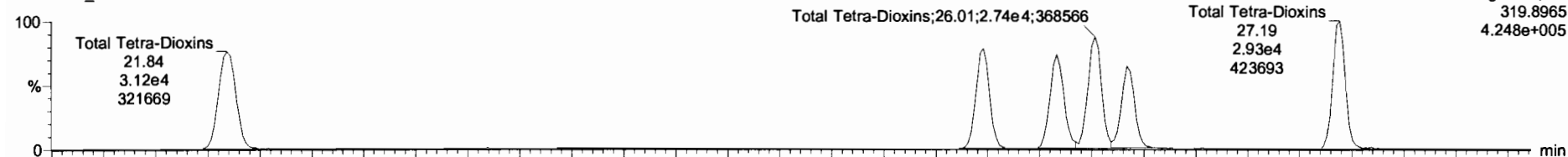
Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2\_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

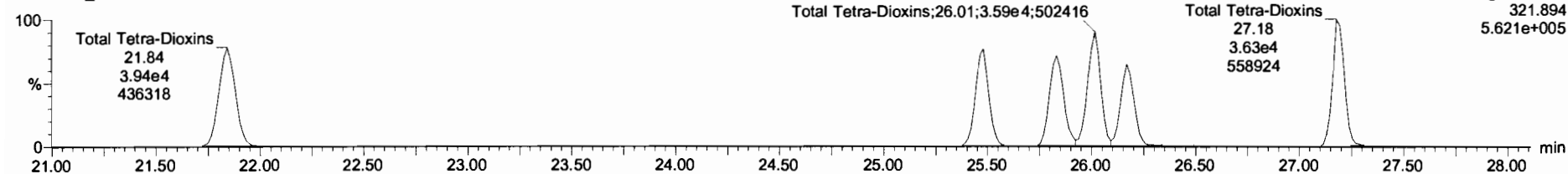
### 2,3,7,8-TCDD

191217K2\_1



F1:Voltage SIR,EI+  
319.8965  
4.248e+005

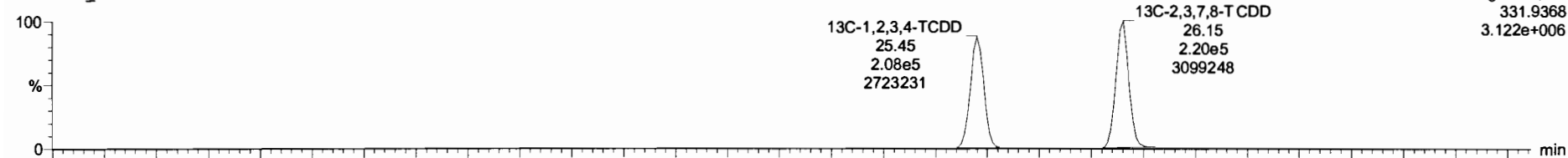
191217K2\_1



F1:Voltage SIR,EI+  
321.894  
5.621e+005

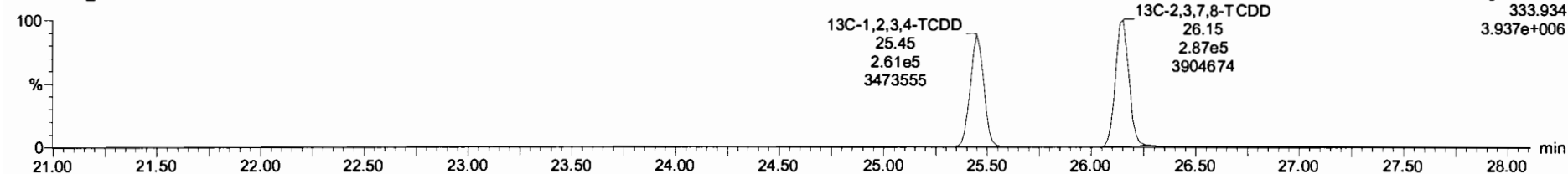
### 13C-2,3,7,8-TCDD

191217K2\_1



F1:Voltage SIR,EI+  
331.9368  
3.122e+006

191217K2\_1



F1:Voltage SIR,EI+  
333.934  
3.937e+006

Dataset: Untitled

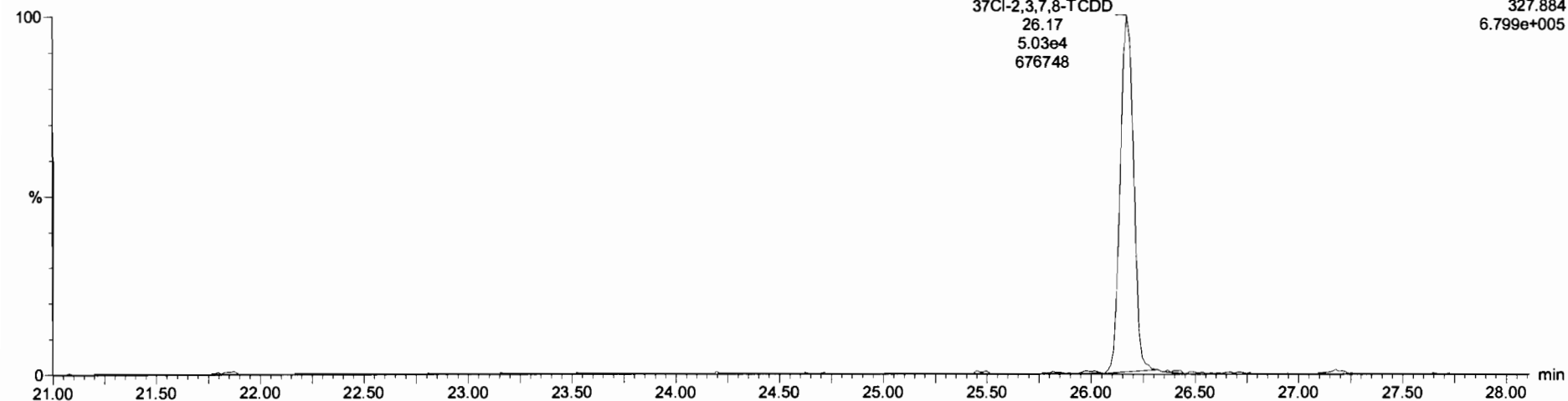
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

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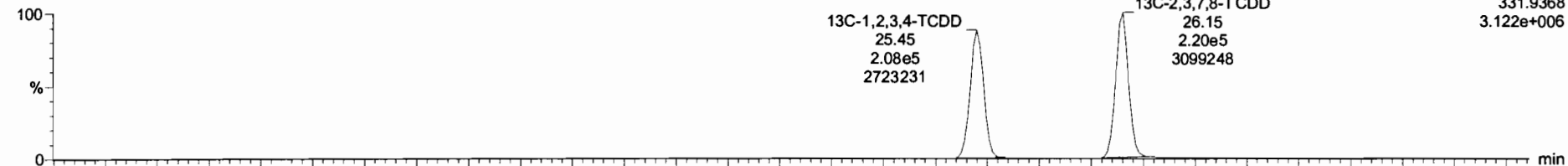
**37Cl-2,3,7,8-TCDD**

191217K2\_1

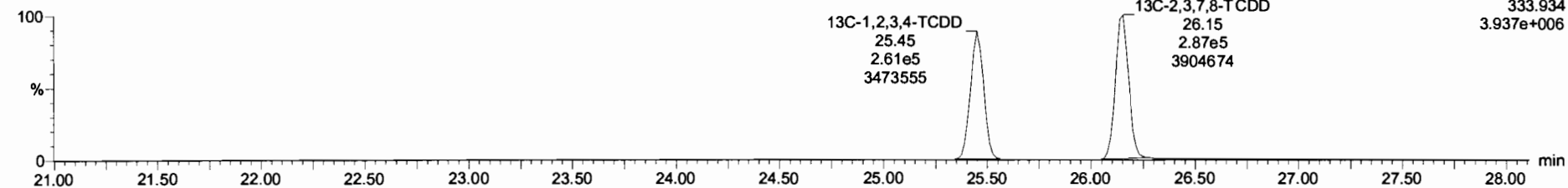


**13C-1,2,3,4-TCDD**

191217K2\_1



191217K2\_1



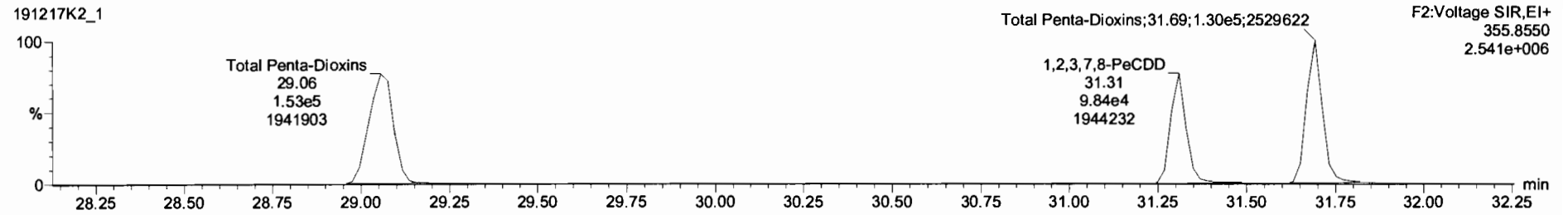
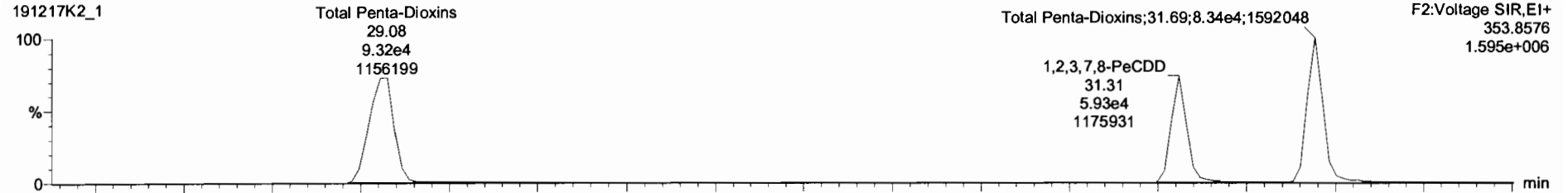
Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

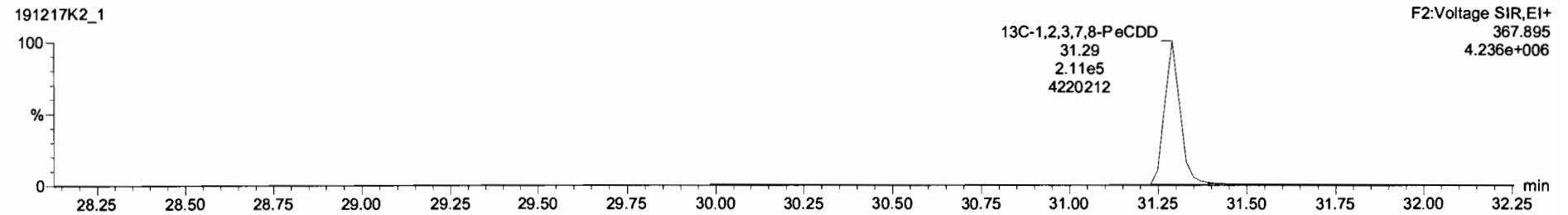
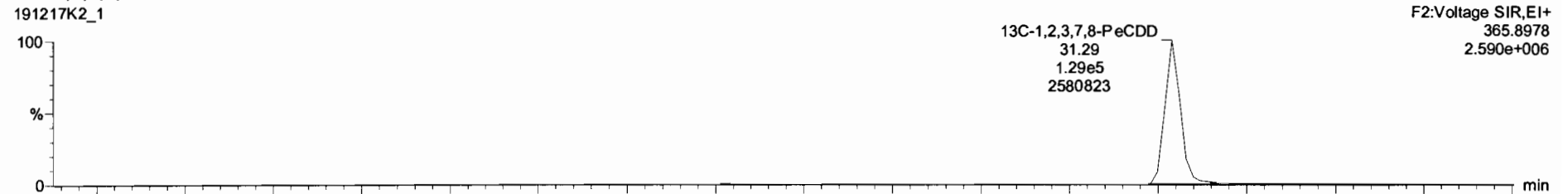
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2\_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

1,2,3,7,8-PeCDD



13C-1,2,3,7,8-PeCDD

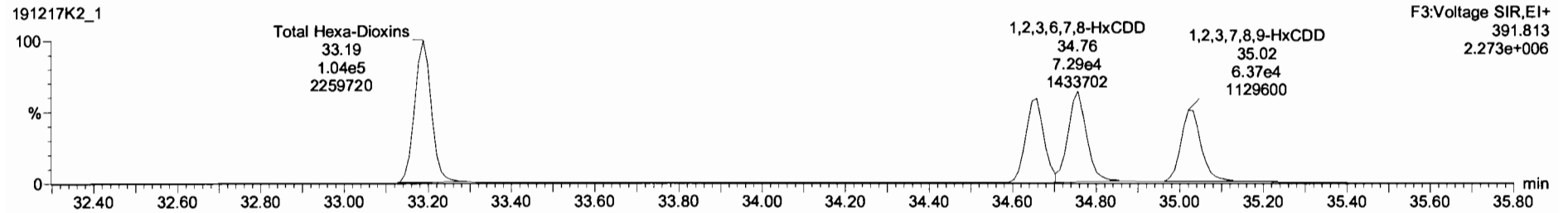
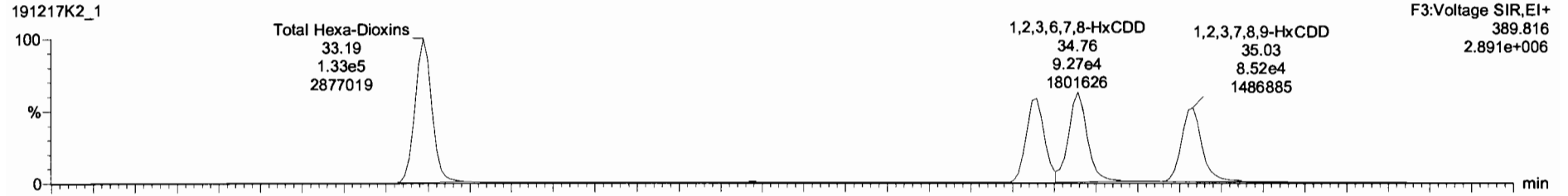


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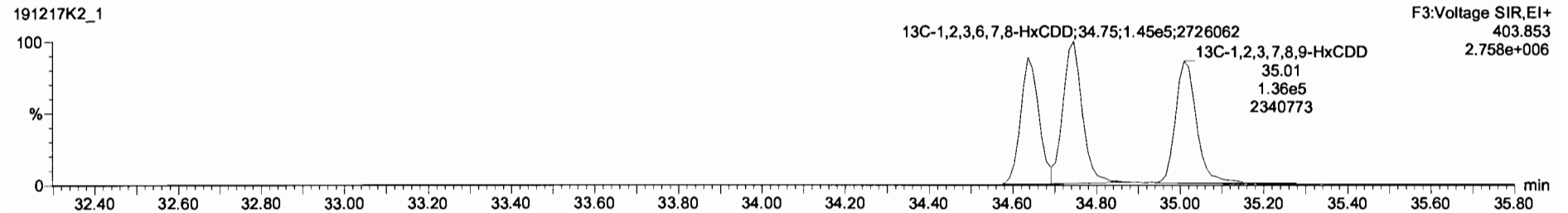
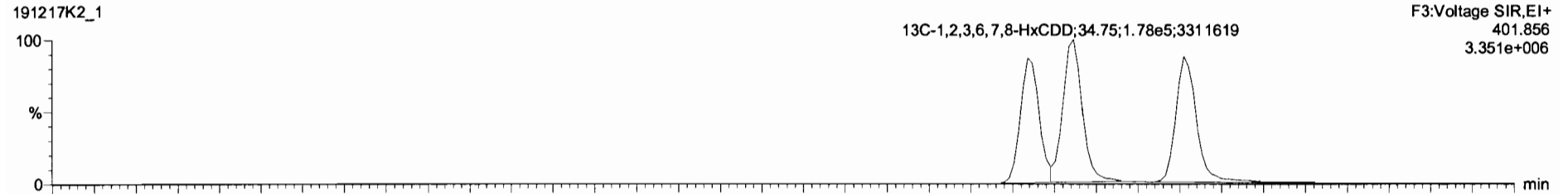
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Name: 191217K2\_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

**1,2,3,4,7,8-HxCDD**



**13C-1,2,3,4,7,8-HxCDD**



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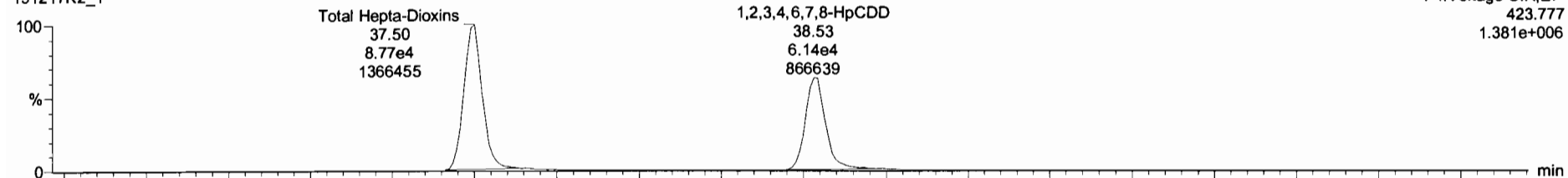
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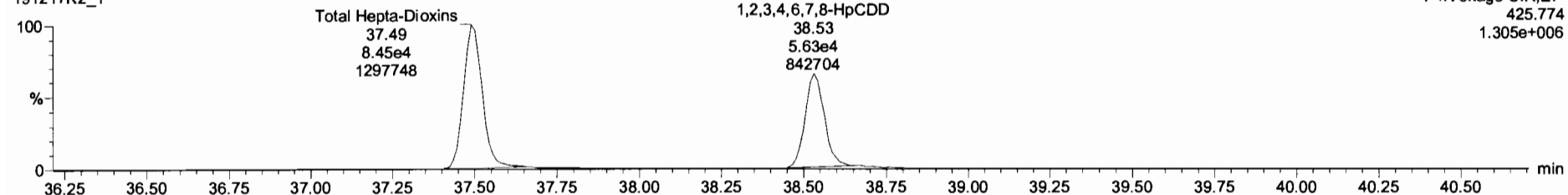
**1,2,3,4,6,7,8-HpCDD**

191217K2\_1



F4:Voltage SIR,EI+  
423.777  
1.381e+006

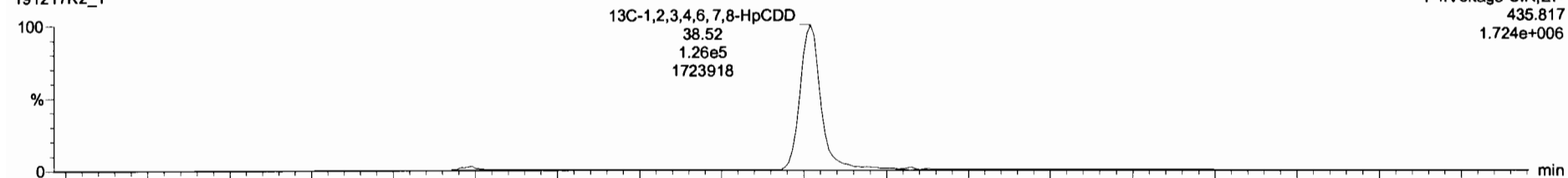
191217K2\_1



F4:Voltage SIR,EI+  
425.774  
1.305e+006

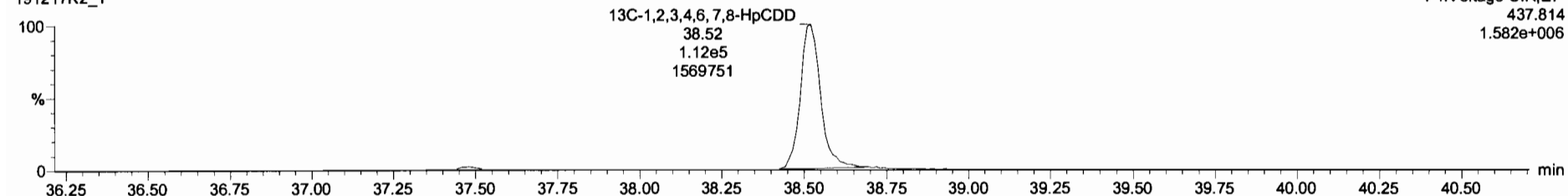
**13C-1,2,3,4,6,7,8-HpCDD**

191217K2\_1



F4:Voltage SIR,EI+  
435.817  
1.724e+006

191217K2\_1



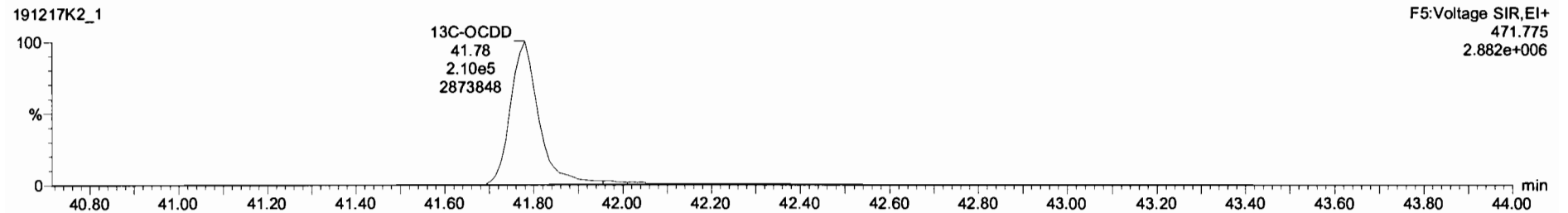
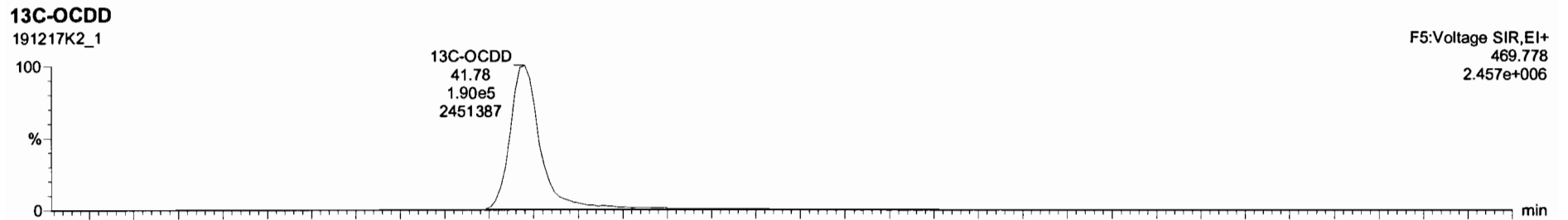
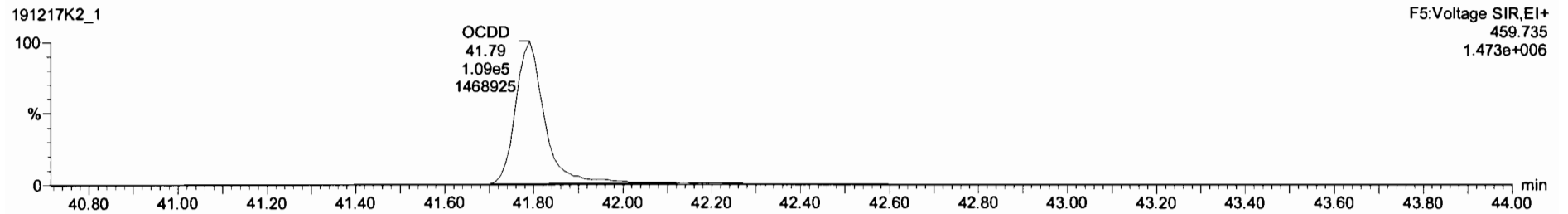
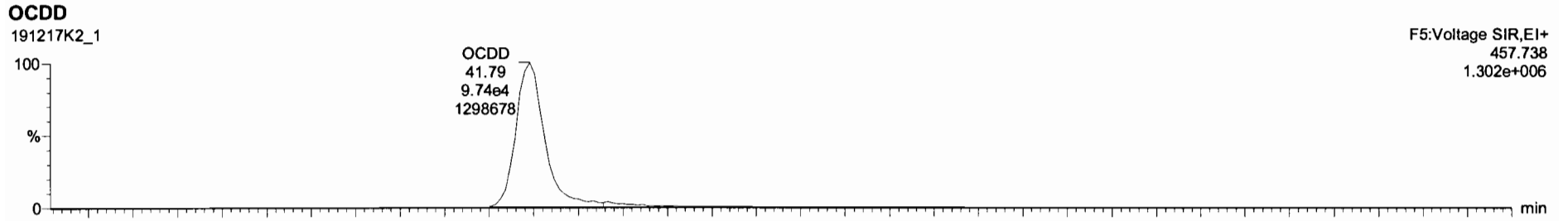
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1.582e+006

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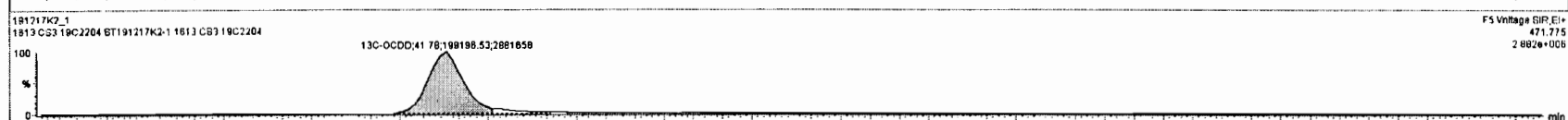
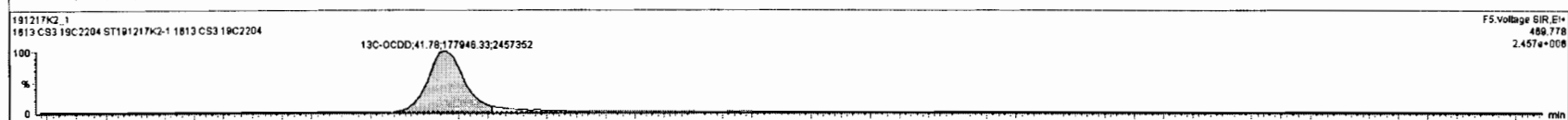
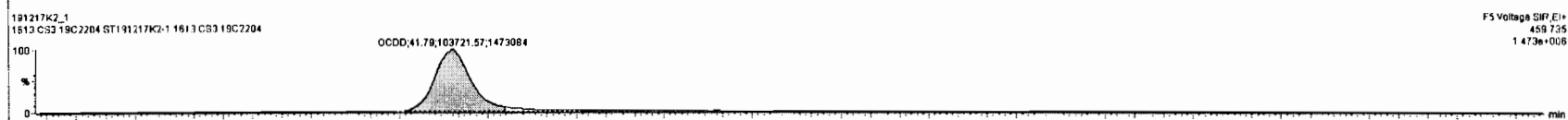
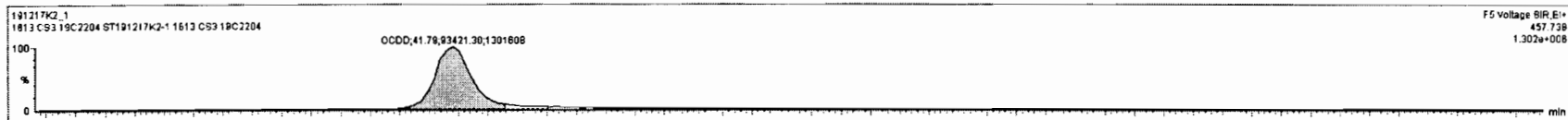
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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2\_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204



#	Name	Resp	RA	Hy	RF	wt/vol	RT	RRT	Conc	%Rec	DL	RMC
1	2,3,7,8-TCDD	4.66e4	0.74	NO	0.92	1.000	26.17	1.001	9.95	99.5	0.108	9.95
2	1,2,3,7,8-PeCDD	1.58e5	0.80	NO	0.90	1.000	31.31	1.001	51.3	103	0.138	51.3
3	1,2,3,4,7,8-HxCDD	1.53e5	1.28	NO	1.07	1.000	34.86	1.001	52.8	106	0.217	52.8
4	1,2,3,6,7,8-HxCDD	1.66e5	1.27	NO	0.97	1.000	34.78	1.000	52.9	106	0.210	52.9
5	1,2,3,7,8,9-HxCDD	1.49e5	1.34	NO	0.98	1.000	35.03	1.001	50.3	101	0.235	50.3
6	1,2,3,4,6,7,8-HpCDD	1.18e5	1.09	NO	1.04	1.000	38.53	1.000	47.7	95.4	0.318	47.7
7	OCDD	1.97e5	0.98	NO	0.97	1.000	41.79	1.000	106	188	0.287	106
8	2,3,7,8-TCDF	8.99e4	0.78	NO	0.94	1.000	25.19	1.001	10.3	103	0.0938	10.3
9	1,2,3,7,8-PeCDF	2.74e5	1.51	NO	0.98	1.000	30.00	1.001	54.4	108	0.138	54.4
10	1,2,3,4,7,8-HxCDF	2.89e5	1.58	NO	1.00	1.000	30.99	1.001	53.9	108	0.131	53.9
11	1,2,3,6,7,8-HxCDF	2.48e5	1.28	NO	1.24	1.000	33.79	1.000	52.3	105	0.238	52.3
12	1,2,3,8,9-HxCDF	2.84e5	1.29	NO	1.10	1.000	33.91	1.001	53.4	107	0.238	53.4
13	2,3,4,6,7,8-HpCDF	2.84e5	1.29	NO	1.18	1.000	34.48	1.000	53.3	107	0.235	53.3
14	1,2,3,7,8,9-HxCDF	2.02e5	1.28	NO	1.07	1.000	35.37	1.001	53.0	106	0.357	53.0
15	1,2,3,4,6,7,8-HpCDF	2.07e5	1.09	NO	1.13	1.000	37.10	1.000	53.0	106	0.198	53.0
16	1,2,3,4,7,8,9-HpCDF	1.59e5	1.10	NO	1.26	1.000	38.15	1.001	54.7	108	0.282	54.7
17	OCDF	2.75e5	0.93	NO	1.10	1.000	41.98	1.000	91.7	91.7	0.220	91.7





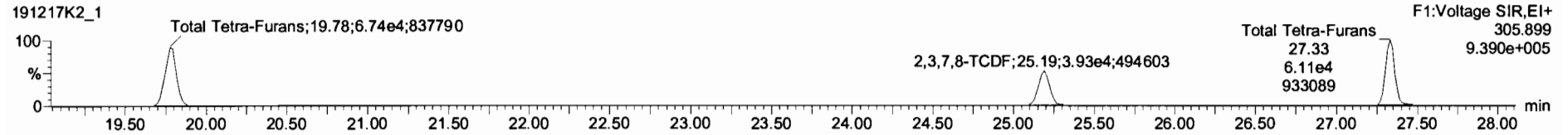
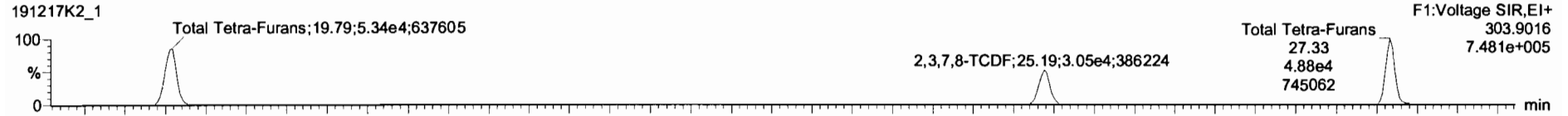
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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

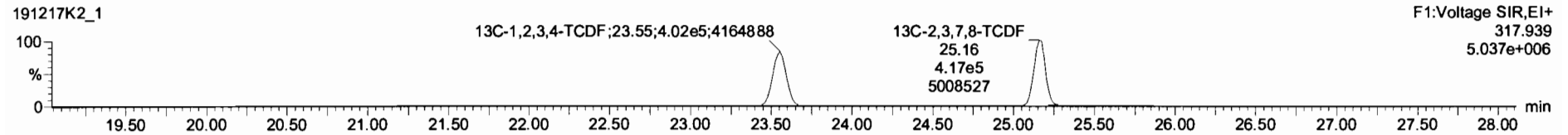
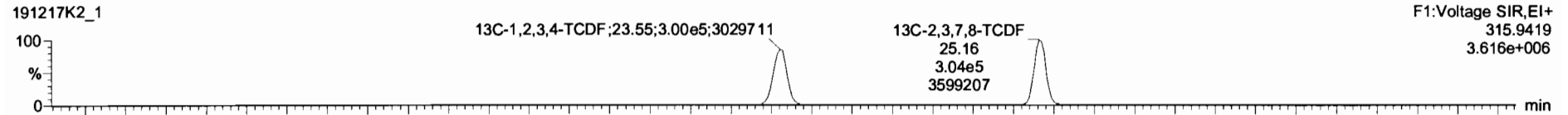
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2\_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

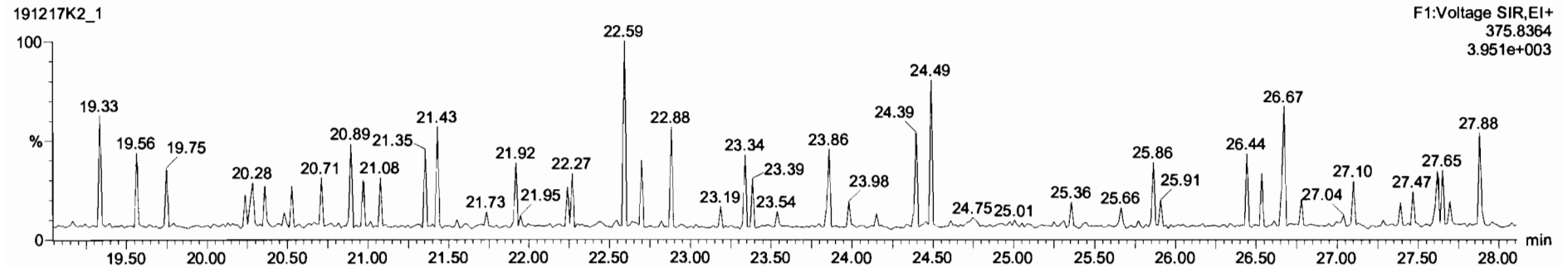
**2,3,7,8-TCDF**



**13C-2,3,7,8-TCDF**



**DPE1**



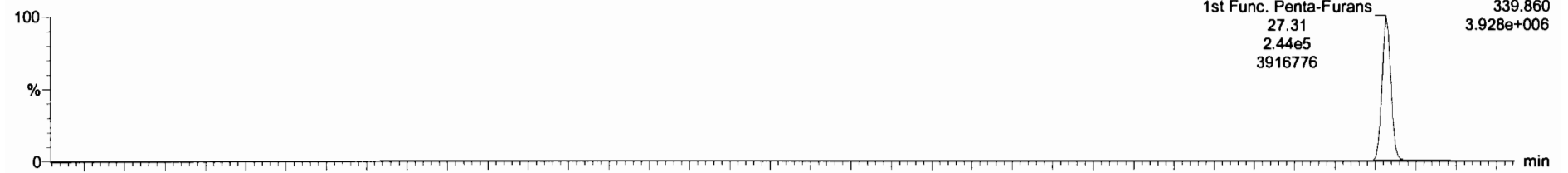
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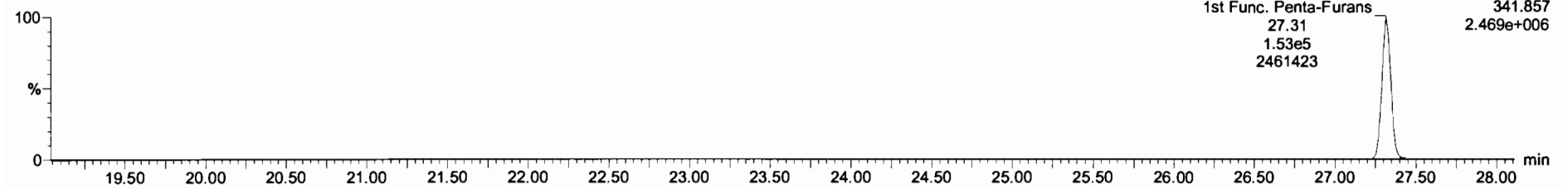
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1st Func. Penta-Furans

191217K2\_1

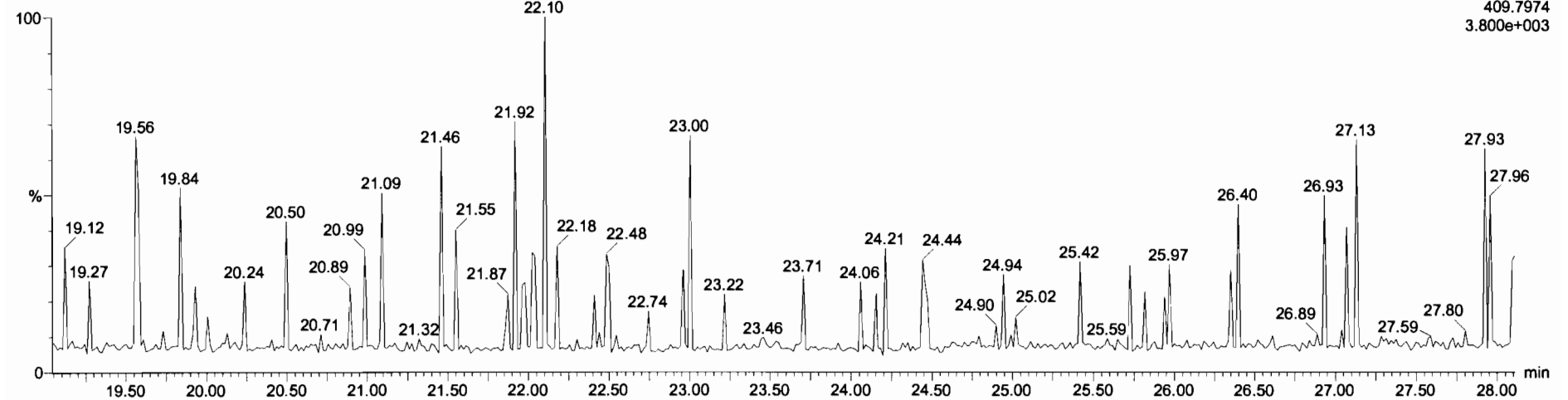


191217K2\_1



DPE6

191217K2\_1



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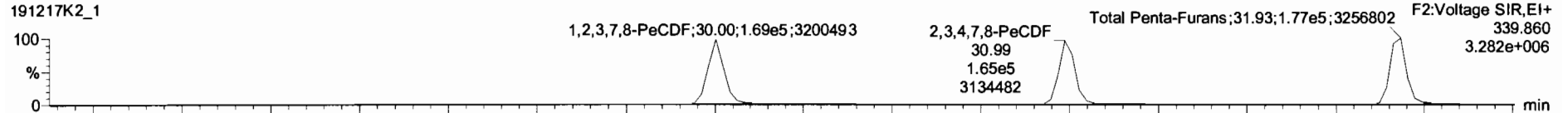
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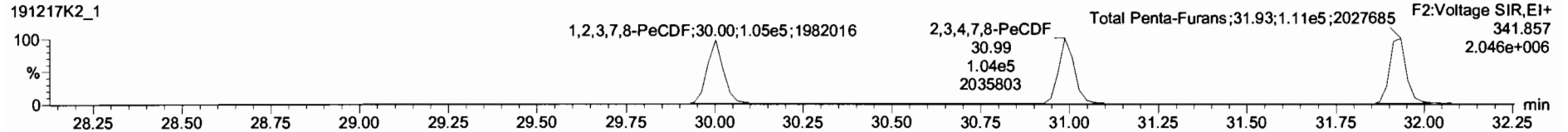
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**1,2,3,7,8-PeCDF**

191217K2\_1

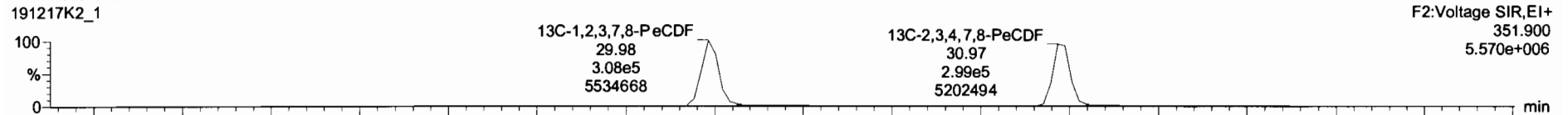


191217K2\_1

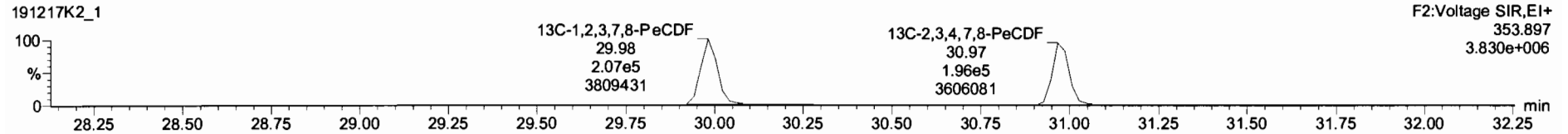


**13C-1,2,3,7,8-PeCDF**

191217K2\_1

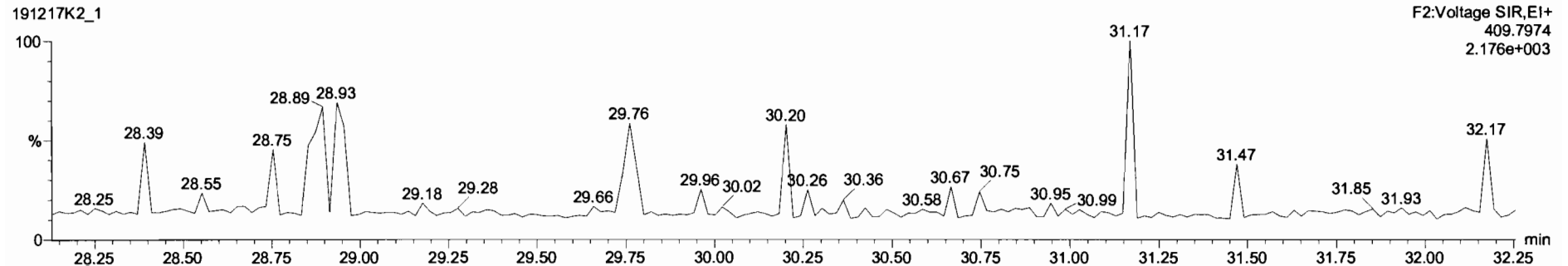


191217K2\_1



**DPE2**

191217K2\_1

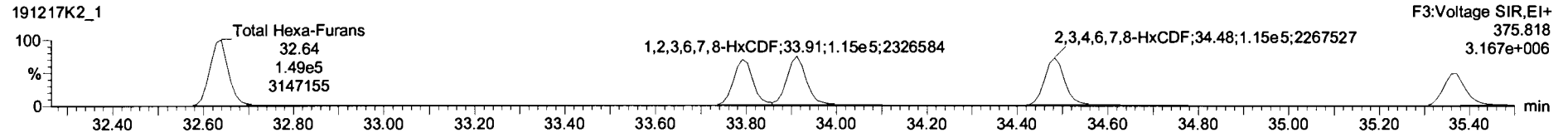
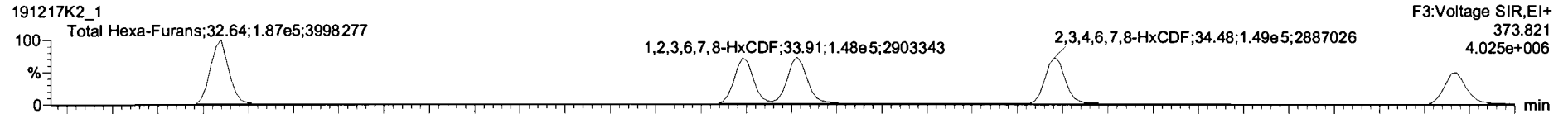


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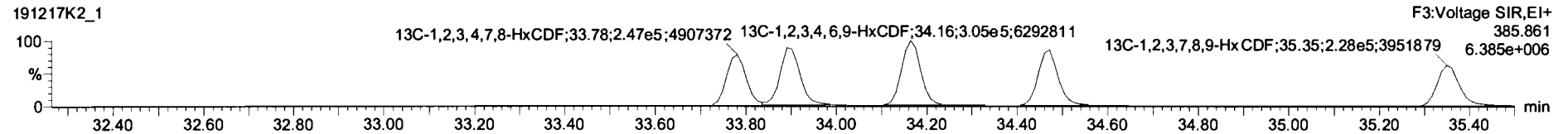
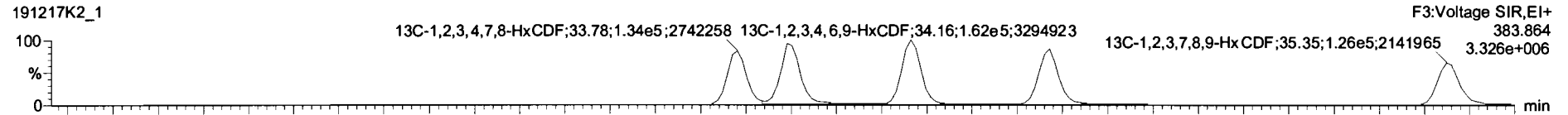
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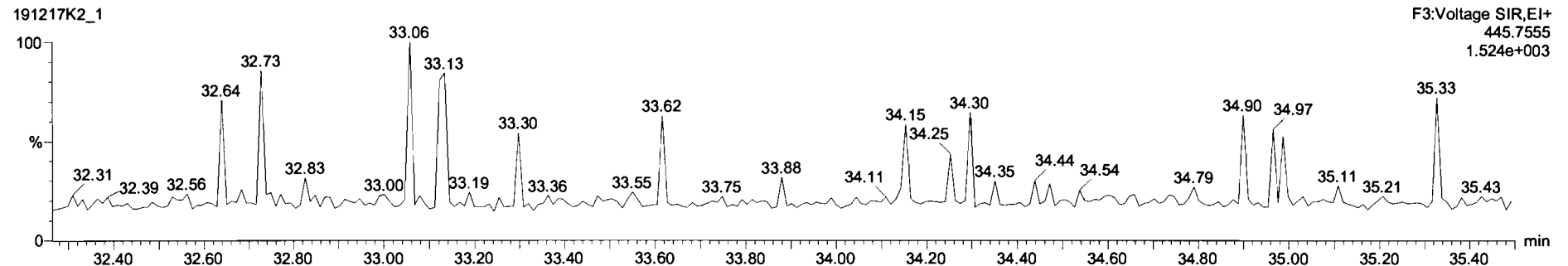
**1,2,3,4,7,8-HxCDF**



**13C-1,2,3,4,7,8-HxCDF**



**DPE3**

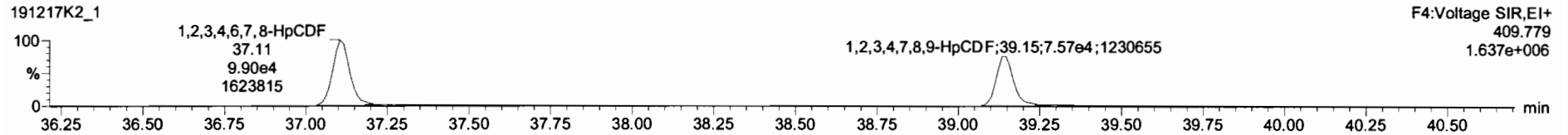
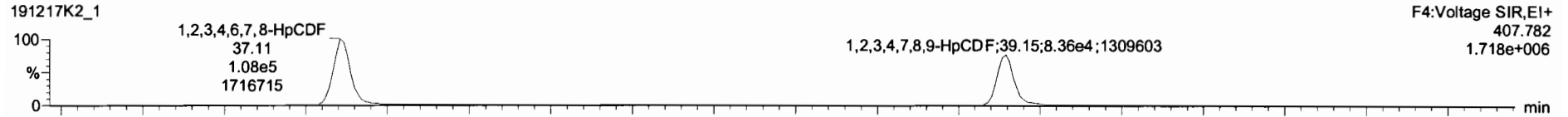


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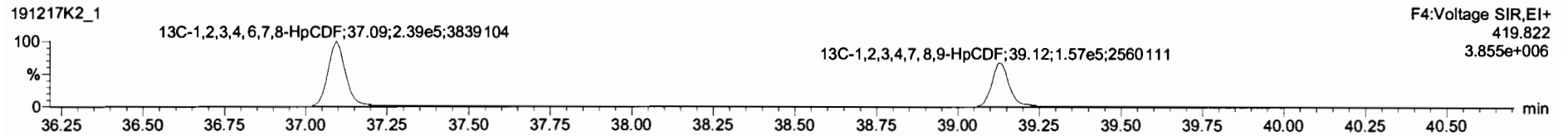
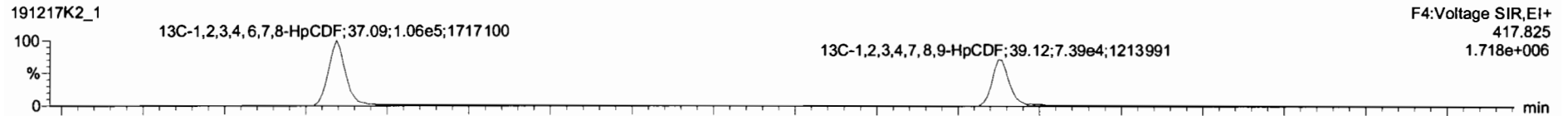
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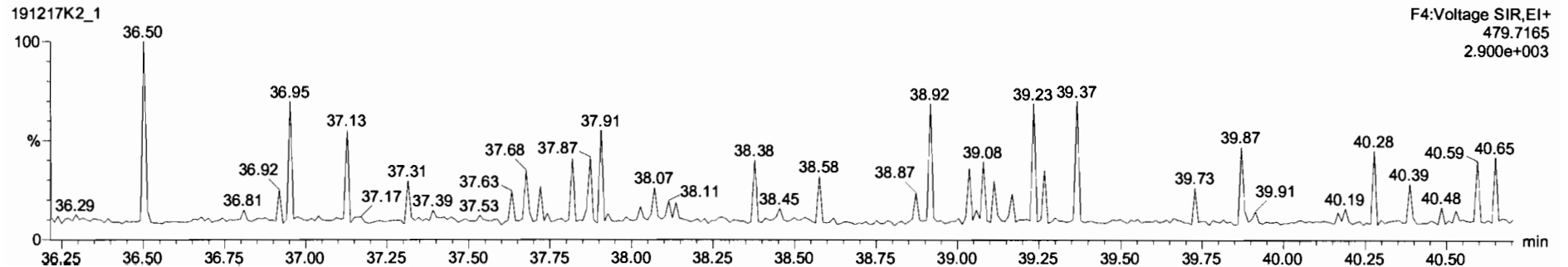
**1,2,3,4,6,7,8-HpCDF**



**13C-1,2,3,4,6,7,8-HpCDF**



**DPE4**

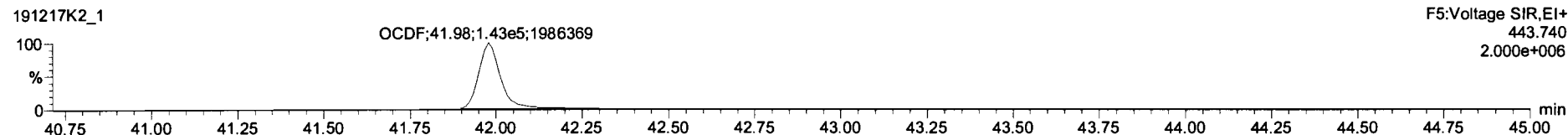
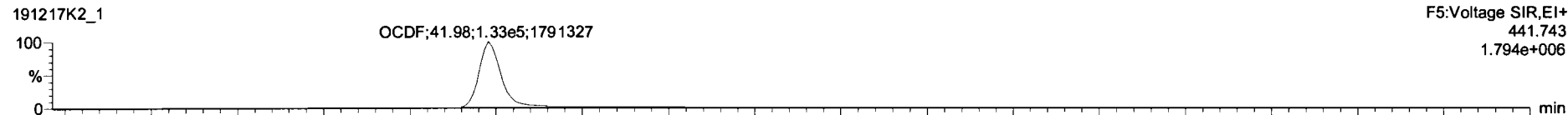


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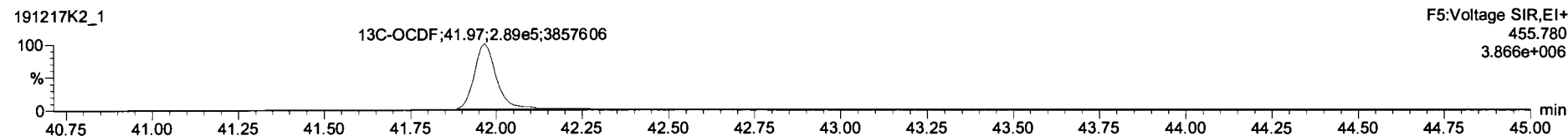
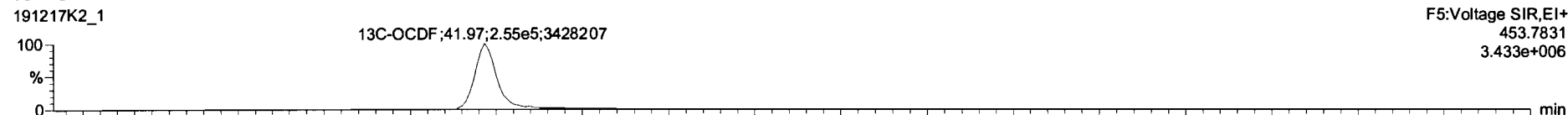
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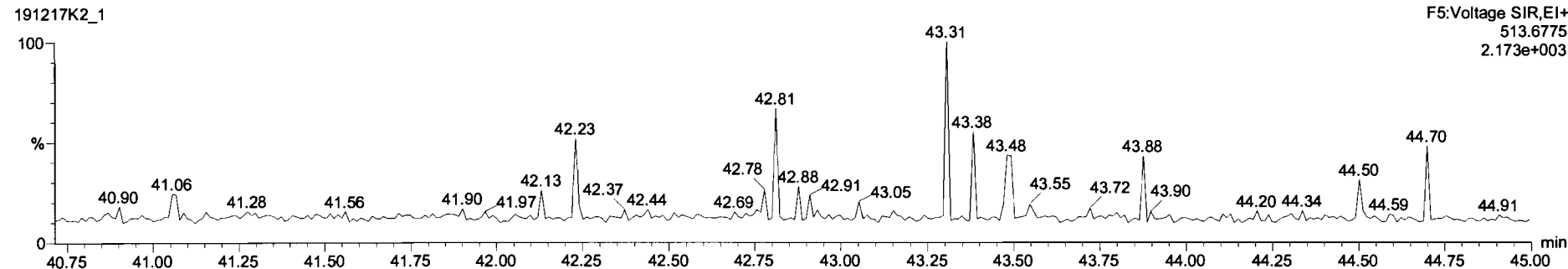
**OCDF**

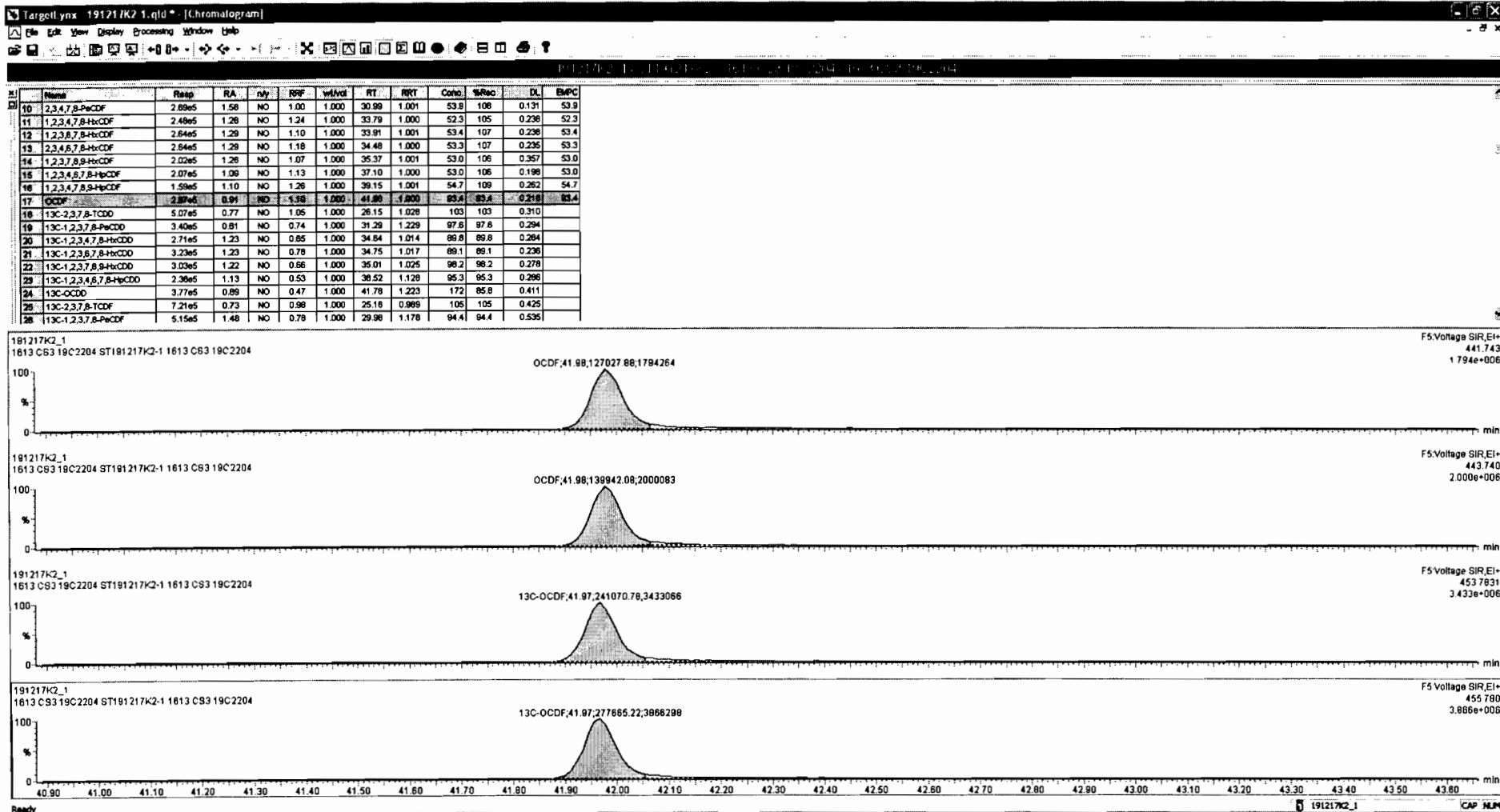


**13C-OCDF**



**DPE5**



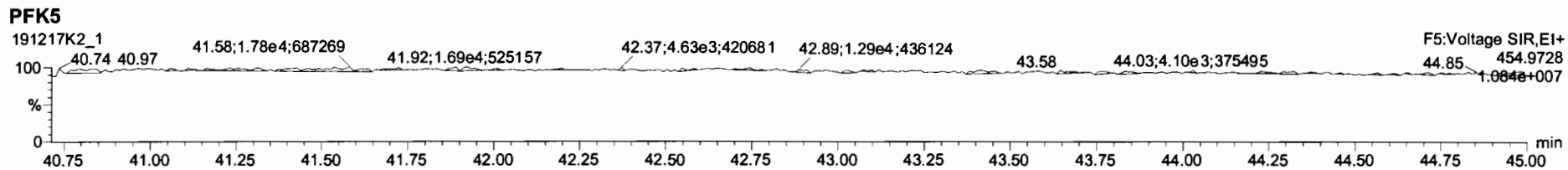
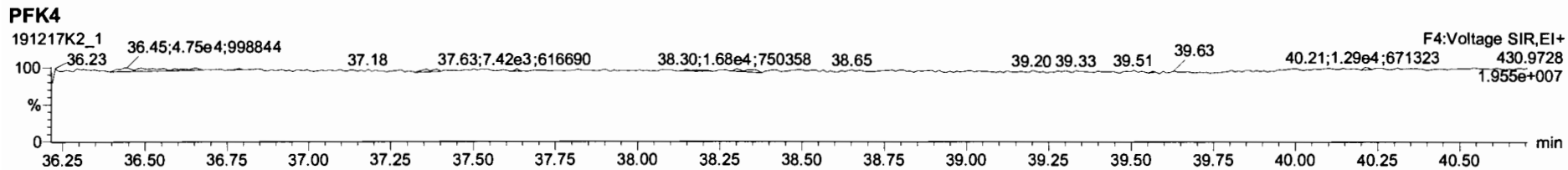
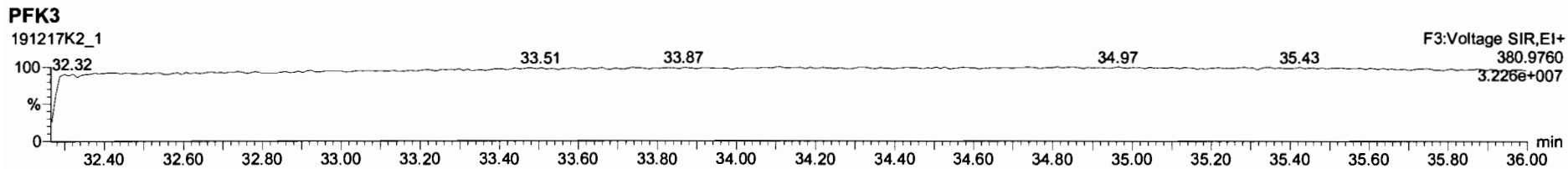
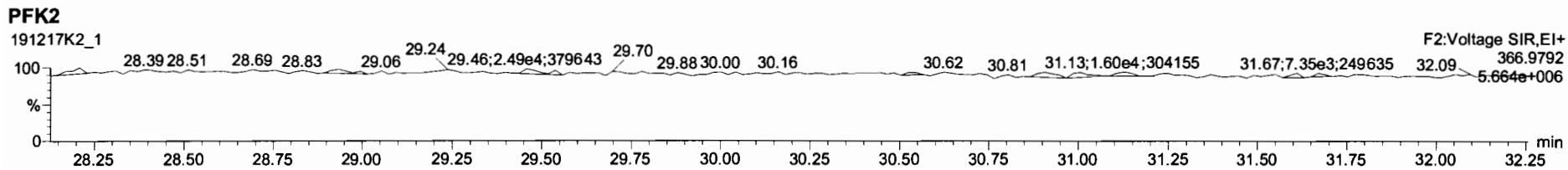
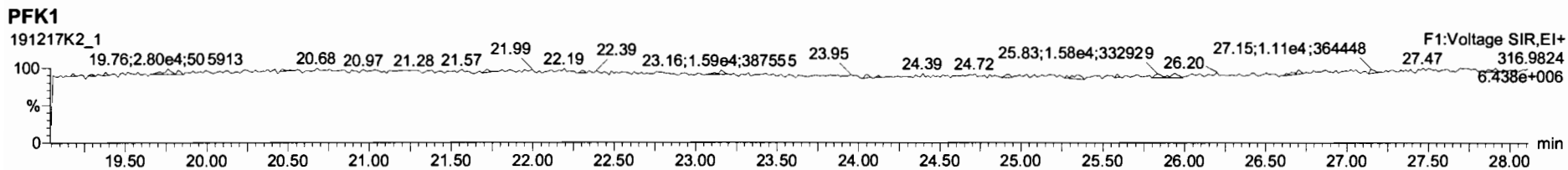


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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

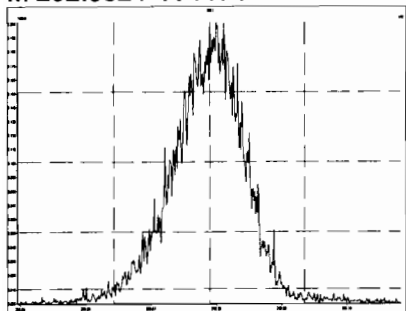
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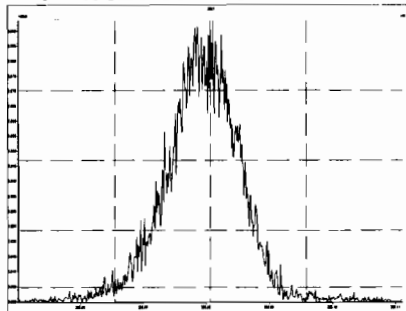


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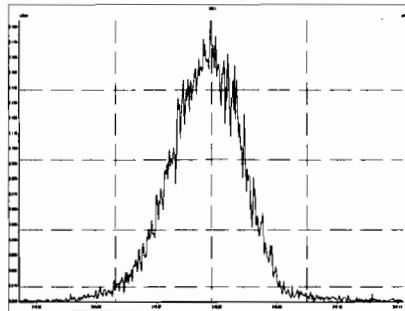
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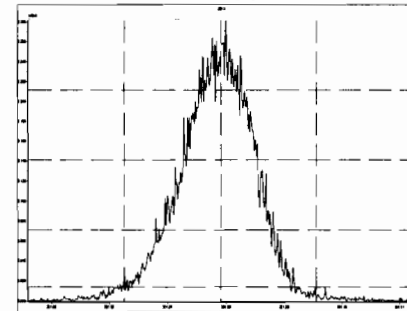
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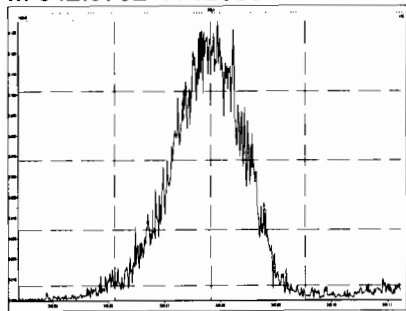
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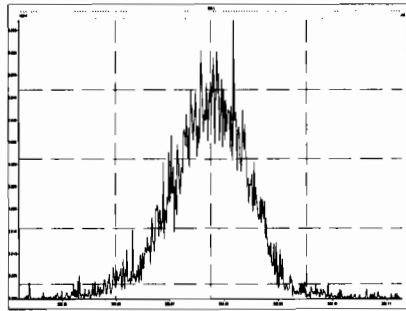
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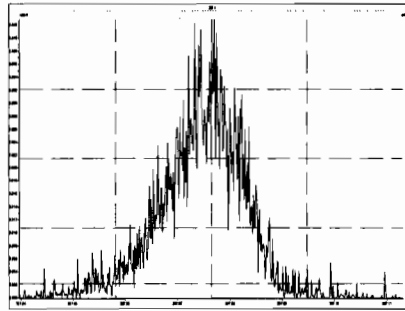
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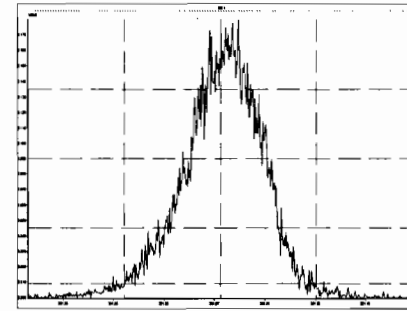
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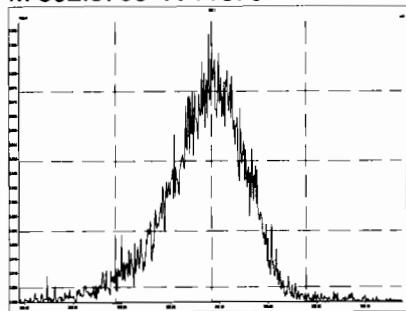
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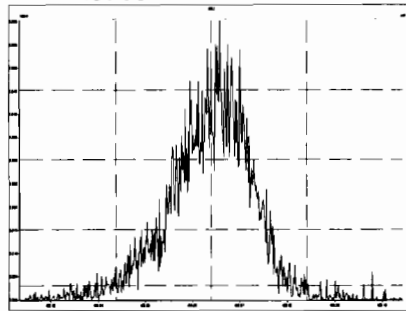
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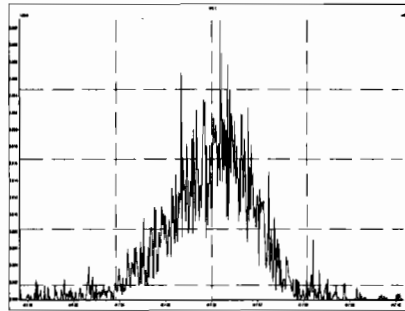
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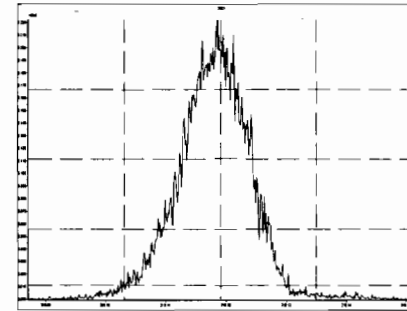
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M 416.9760 R 13251

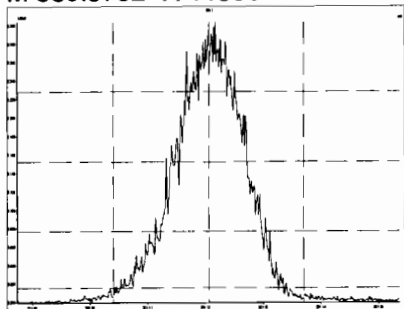


M 318.9792 R 12806

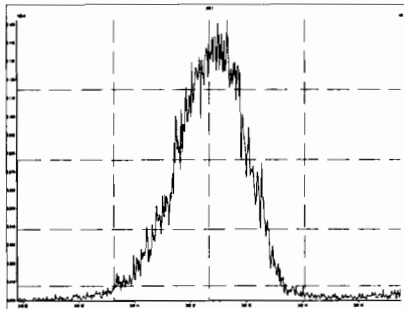


Printed: Wednesday, December 18, 2019 02:05:14 Pacific Standard Time

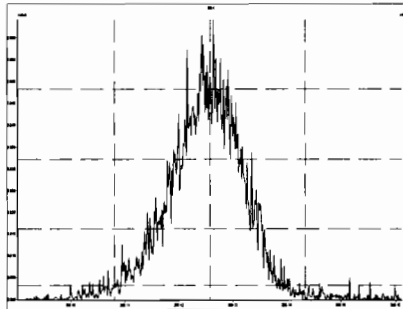
M 330.9792 R 11990



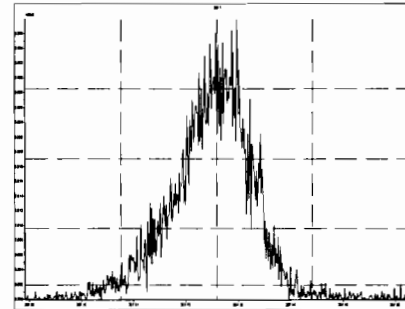
M 342.9792 R 12077



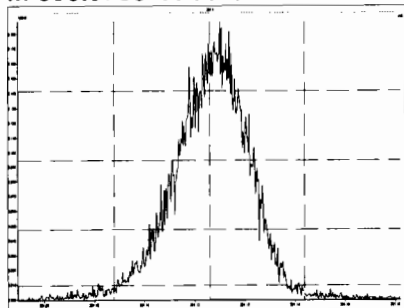
M 354.9792 R 12053



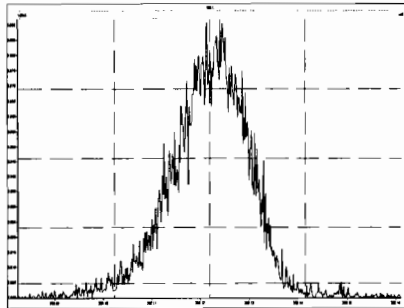
M 366.9792 R 12699



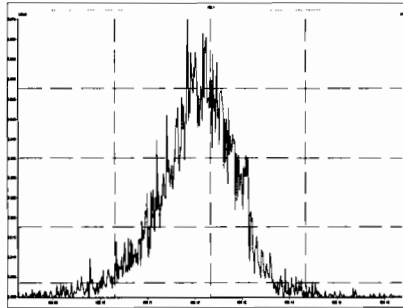
M 380.9760 R 11471



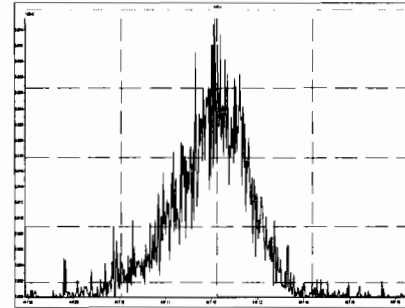
M 392.9760 R 11772



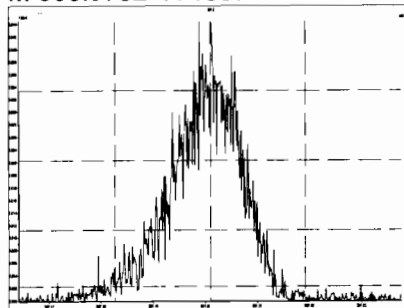
M 404.9760 R 12049



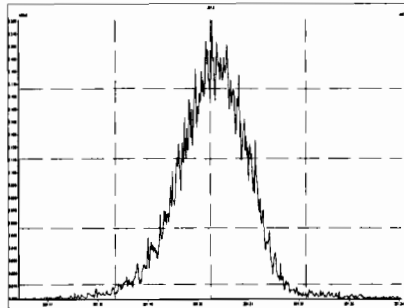
M 416.9760 R 13797



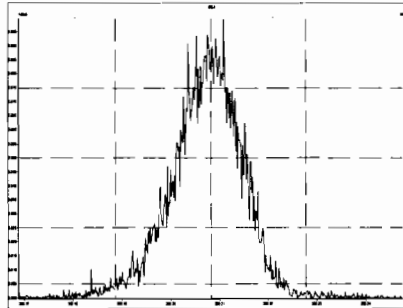
M 366.9792 R 13578



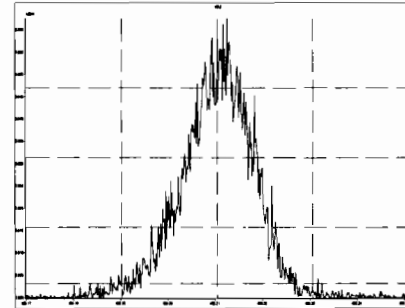
M 380.9760 R 12205



M 392.9760 R 13219

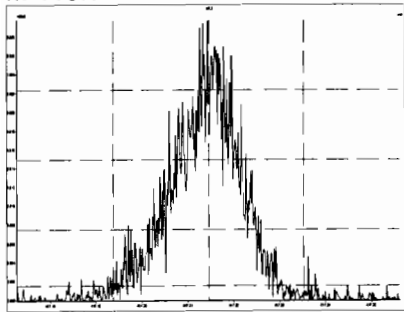


M 404.9760 R 12347

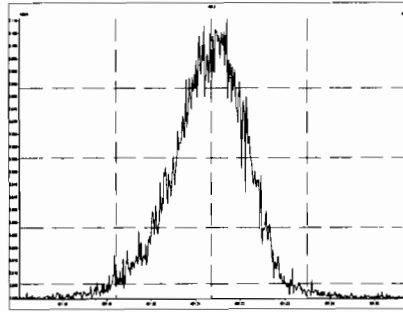


Printed: Wednesday, December 18, 2019 02:05:14 Pacific Standard Time

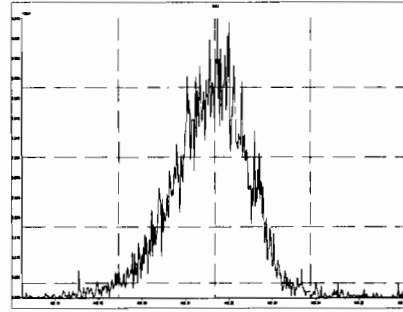
M 416.9760 R 14169



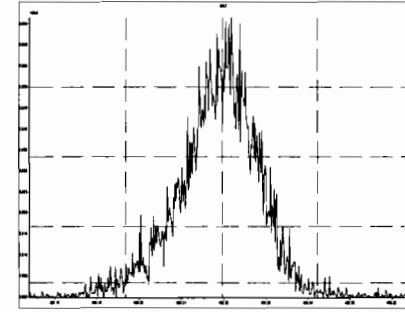
M 430.9728 R 12205



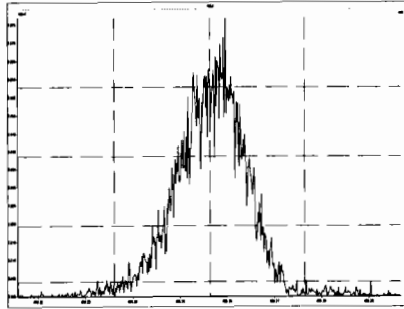
M 442.9728 R 12695



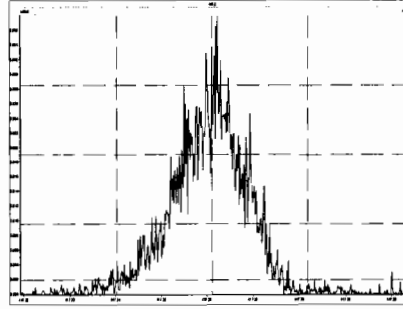
M 454.9728 R 11728



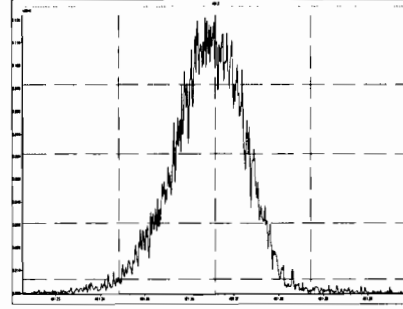
M 404.9760 R 13545



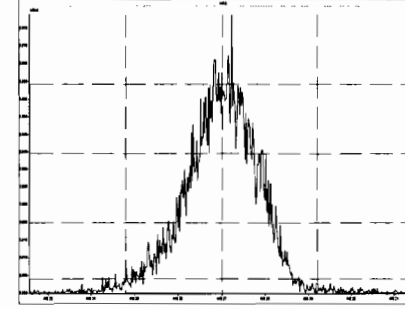
M 416.9760 R 13387



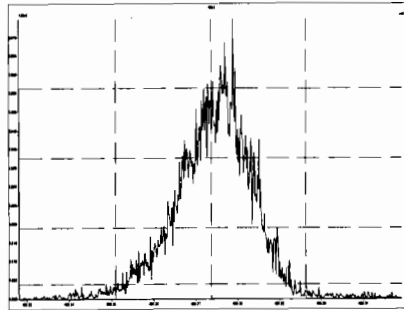
M 430.9728 R 12112



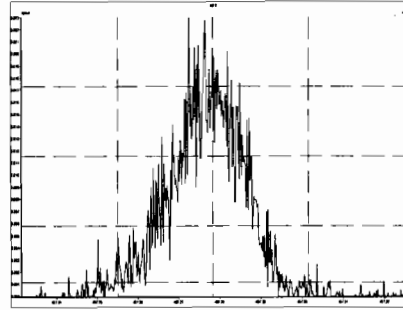
M 442.9728 R 12634



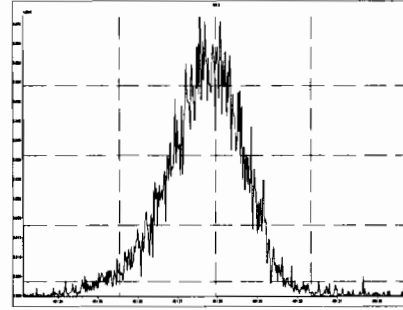
M 454.9728 R 12516



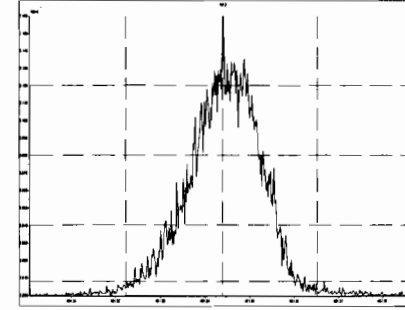
M 466.9728 R 13280



M 480.9696 R 12099

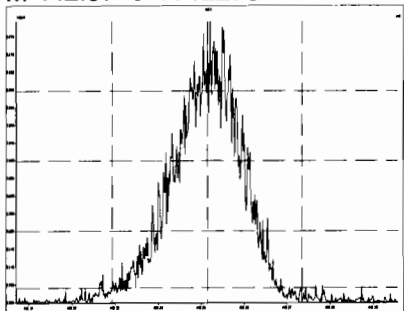


M 430.9728 R 12316

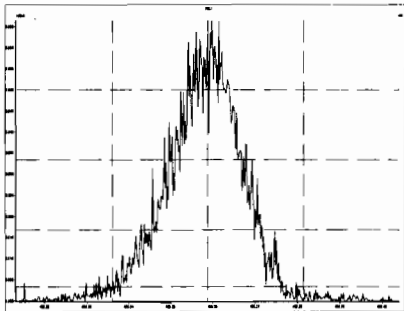


Printed: Wednesday, December 18, 2019 02:05:14 Pacific Standard Time

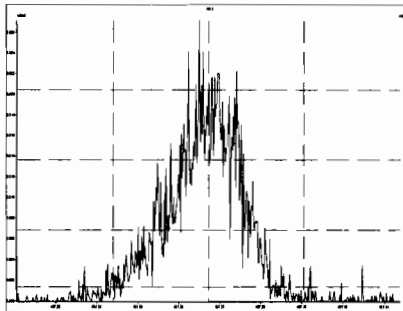
M 442.9728 R 12278



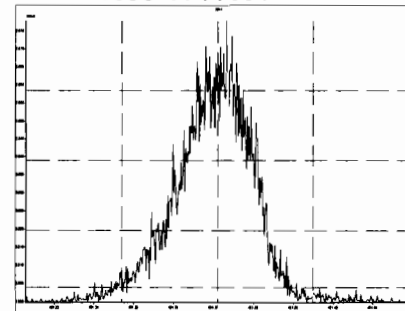
M 454.9728 R 11990



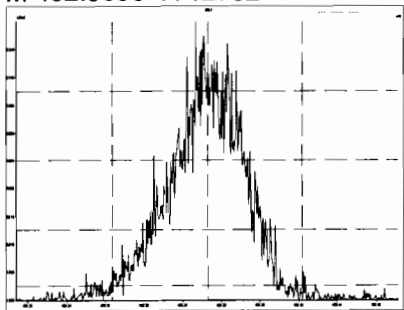
M 466.9728 R 12691



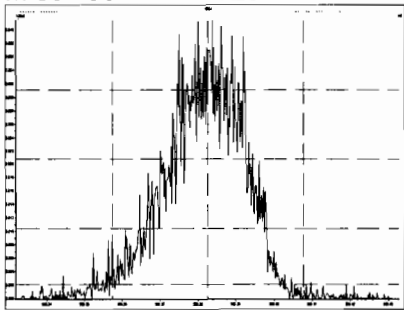
M 480.9696 R 11691



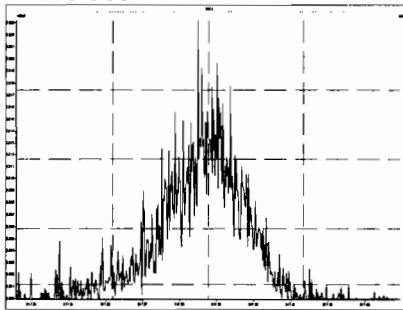
M 492.9696 R 12762



M 504.9696 R 11720



M 516.9697 R 13826



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST191217163-1

**Reviewed By:** GAB 12/19/19

*Initials & Date*

**End Calibration ID:** NA

	<u>Beg.</u>	<u>End</u>
<b>Ion abundance within QC limits?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
<b>Concentrations within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>TCDD/TCDF Valleys &lt;25%</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>First and last eluters present?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Retention Times within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Verification Std. named correctly?</b> (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Forms signed and dated?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Correct ICAL referenced?</b>	<u>He</u>	<u>Ⓟ</u>
<b><u>Run Log:</u></b>		
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
- Bottle position verified?	<u>He</u>	

**Mass resolution ≥**

5k     6-8K     8K     10K  
 1614    1699    429    1613/1668/8280

**Intergrated peaks display correctly?**

**GC Break <20%**

NA

**8280 CS1 End Standard:**

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

**Comments:**

Ⓐ one mass did not centroid

<u>Beg.</u>	<u>End</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
<input checked="" type="checkbox"/>	<input type="checkbox"/> NA

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-2.qld

Last Altered: Wednesday, December 18, 2019 18:16:15 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:16:32 Pacific Standard Time

HC 12/18/19

GRB 12/19/19

Method: U:\VG11.PRO\MethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_2, Date: 18-Dec-2019, Time: 02:54:19, ID: ST191217K3-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	2,3,7,8-TCDD	3.22e4	3.31e5	0.80	NO	0.925	26.18	26.18	NO	1.001	1.001	10.511	105	NO
2	1,2,3,7,8-PeCDD	9.90e4	2.13e5	0.63	NO	0.905	31.33	31.33	NO	1.001	1.001	51.499	103	NO
3	1,2,3,4,7,8-HxCDD	9.03e4	1.60e5	1.26	NO	1.07	34.67	34.67	NO	1.000	1.000	52.816	106	NO
4	1,2,3,6,7,8-HxCDD	1.01e5	1.94e5	1.24	NO	0.967	34.76	34.77	NO	1.000	1.000	53.907	108	NO
5	1,2,3,7,8,9-HxCDD	8.24e4	1.67e5	1.20	NO	0.978	35.07	35.05	NO	1.001	1.001	50.441	101	NO
6	1,2,3,4,6,7,8-HpCDD	6.33e4	1.24e5	1.03	NO	1.04	38.55	38.55	NO	1.000	1.000	49.410	98.8	NO
7	OCDD	1.07e5	2.12e5	0.87	NO	0.972	41.81	41.82	NO	1.000	1.000	103.77	104	NO
8	2,3,7,8-TCDF	5.01e4	4.99e5	0.79	NO	0.938	25.20	25.19	NO	1.001	1.001	10.705	107	NO
9	1,2,3,7,8-PeCDF	1.83e5	3.54e5	1.69	NO	0.976	30.02	30.02	NO	1.001	1.001	52.888	106	NO
10	2,3,4,7,8-PeCDF	1.74e5	3.21e5	1.55	NO	1.00	31.02	31.01	NO	1.001	1.001	54.076	108	NO
11	1,2,3,4,7,8-HxCDF	1.51e5	2.35e5	1.25	NO	1.24	33.80	33.81	NO	1.000	1.000	51.767	104	NO
12	1,2,3,6,7,8-HxCDF	1.75e5	2.96e5	1.22	NO	1.10	33.92	33.92	NO	1.000	1.000	53.912	108	NO
13	1,2,3,4,6,7,8-HxCDF	1.61e5	2.46e5	1.21	NO	1.18	34.52	34.50	NO	1.001	1.001	55.499	111	NO
14	1,2,3,7,8,9-HxCDF	1.23e5	2.11e5	1.19	NO	1.07	35.37	35.38	NO	1.000	1.000	54.366	109	NO
15	1,2,3,4,6,7,8-HpCDF	1.21e5	1.99e5	1.09	NO	1.13	37.15	37.13	NO	1.001	1.000	53.743	107	NO
16	1,2,3,4,7,8,9-HpCDF	9.09e4	1.36e5	1.04	NO	1.26	39.15	39.16	NO	1.000	1.000	52.891	106	NO
17	OCDF	1.56e5	2.99e5	0.92	NO	1.10	42.00	42.01	NO	1.000	1.000	94.818	94.8	NO
18	13C-2,3,7,8-TCDD	3.31e5	3.22e5	0.78	NO	1.05	26.16	26.15	NO	1.027	1.027	98.008	98.0	NO
19	13C-1,2,3,7,8-PeCDD	2.13e5	3.22e5	0.65	NO	0.743	31.31	31.31	NO	1.230	1.229	88.801	88.8	NO
20	13C-1,2,3,4,7,8-HxCDD	1.60e5	2.89e5	1.24	NO	0.646	34.66	34.66	NO	1.014	1.014	85.637	85.6	NO
21	13C-1,2,3,6,7,8-HxCDD	1.94e5	2.89e5	1.23	NO	0.777	34.76	34.76	NO	1.017	1.017	86.585	86.6	NO
22	13C-1,2,3,7,8,9-HxCDD	1.67e5	2.89e5	1.20	NO	0.659	35.03	35.03	NO	1.025	1.025	87.698	87.7	NO
23	13C-1,2,3,4,6,7,8-HpCDD	1.24e5	2.89e5	1.06	NO	0.534	38.53	38.54	NO	1.127	1.127	80.063	80.1	NO
24	13C-OCDD	2.12e5	2.89e5	0.90	NO	0.470	41.81	41.81	NO	1.223	1.223	155.80	77.9	NO
25	13C-2,3,7,8-TCDF	4.99e5	5.29e5	0.73	NO	0.977	25.17	25.17	NO	0.989	0.989	96.535	96.5	NO
26	13C-1,2,3,7,8-PeCDF	3.54e5	5.29e5	1.61	NO	0.778	30.00	30.00	NO	1.178	1.178	86.067	86.1	NO
27	13C-2,3,4,7,8-PeCDF	3.21e5	5.29e5	1.52	NO	0.750	30.99	30.99	NO	1.217	1.217	80.793	80.8	NO
28	13C-1,2,3,4,7,8-HxCDF	2.35e5	2.89e5	0.54	NO	0.845	33.80	33.80	NO	0.989	0.989	96.108	96.1	NO
29	13C-1,2,3,6,7,8-HxCDF	2.96e5	2.89e5	0.52	NO	1.03	33.91	33.91	NO	0.992	0.992	99.767	99.8	NO
30	13C-2,3,4,6,7,8-HxCDF	2.46e5	2.89e5	0.54	NO	0.893	34.49	34.48	NO	1.009	1.009	95.297	95.3	NO
31	13C-1,2,3,7,8,9-HxCDF	2.11e5	2.89e5	0.54	NO	0.734	35.39	35.37	NO	1.035	1.035	99.524	99.5	NO

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-2.qld

Last Altered: Wednesday, December 18, 2019 18:16:15 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:16:32 Pacific Standard Time

Name: 191217K3\_2, Date: 18-Dec-2019, Time: 02:54:19, ID: ST191217K3-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	13C-1,2,3,4,6,7,8-HpCDF	1.99e5	2.89e5	0.45	NO	0.754	37.11	37.12	NO	1.085	1.086	91.233	91.2	NO
33	13C-1,2,3,4,7,8,9-HpCDF	1.36e5	2.89e5	0.46	NO	0.539	39.13	39.15	NO	1.145	1.145	87.538	87.5	NO
34	13C-OCDF	2.99e5	2.89e5	0.88	NO	0.593	42.00	42.00	NO	1.229	1.229	174.54	87.3	NO
35	37Cl-2,3,7,8-TCDD	3.48e4	3.22e5			1.07	26.18	26.18	NO	1.028	1.028	10.092	101	NO
36	13C-1,2,3,4-TCDD	3.22e5	3.22e5	0.81	NO	1.00	25.45	25.47	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	5.29e5	5.29e5	0.75	NO	1.00	23.55	23.55	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	2.89e5	2.89e5	0.52	NO	1.00	34.16	34.19	NO	1.000	1.000	100.00	100	NO

Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time  
Printed: Wednesday, December 18, 2019 18:18:17 Pacific Standard Time

Method: U:\VG11.PROMethDB\1613\_rrt-12-17-19.mdb 17 Dec 2019 14:52:57  
Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

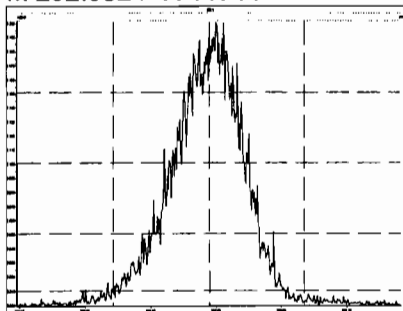
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	191217K3_1	SOLVENT BLANK	18-Dec-19	02:06:30
2	191217K3_2	ST191217K3-1 1613 CS3 19C2204	18-Dec-19	02:54:19
3	191217K3_3	SOLVENT BLANK	18-Dec-19	03:41:48
4	191217K3_4	1903655-01 PDI-032SC-A-00-01-191010 12.22	18-Dec-19	04:30:11
5	191217K3_5	1903655-02 PDI-032SC-A-11-12-191010 11.52	18-Dec-19	05:18:35
6	191217K3_6	1903655-03 PDI-032SC-A-12-12.8-191010 14	18-Dec-19	06:08:15
7	191217K3_7	1903655-06 PDI-035SC-A-00-01-191010 15.92	18-Dec-19	06:56:35
8	191217K3_8	1903655-07 PDI-035SC-A-11-12-191010 11.88	18-Dec-19	07:44:36
9	191217K3_9	1903655-08 PDI-035SC-A-12-12.7-191010 13.....	18-Dec-19	08:32:07
10	191217K3_10	1903655-09 PDI-041SC-A-12-13-191010 11.8	18-Dec-19	09:20:29
11	191217K3_11	1903655-10 PDI-041SC-A-13-14.2-191010 14.....	18-Dec-19	10:08:52
12	191217K3_12	1903655-11 PDI-045SC-A-12-13-191010 13.17	18-Dec-19	10:57:15
13	191217K3_13	1903655-12 PDI-045SC-A-13-13.6-191010 13.....	18-Dec-19	11:45:38
14	191217K3_14	1903655-13 PDI-067SC-A-12-13-191010 14.56	18-Dec-19	12:35:17
15	191217K3_15	1903655-14 PDI-067SC-A-13-13.8-191010 14.....	18-Dec-19	13:23:13
16	191217K3_16	1903739-01 PDI-026SC-A-11-12-191014 15.79	18-Dec-19	14:10:41

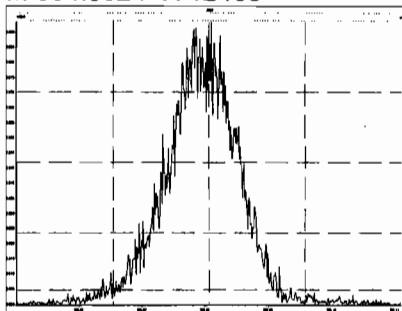


Printed: Wednesday, December 18, 2019 02:05:14 Pacific Standard Time

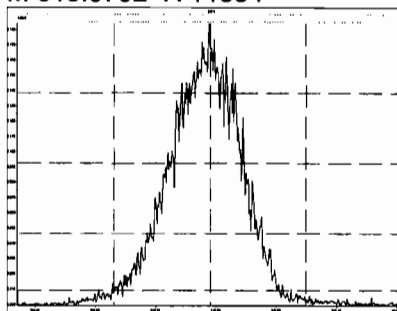
M 292.9824 R 11711



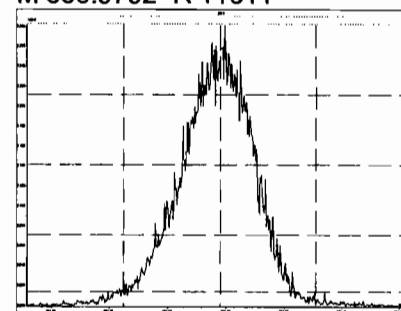
M 304.9824 R 12438



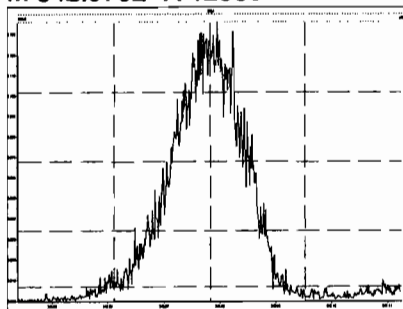
M 318.9792 R 11884



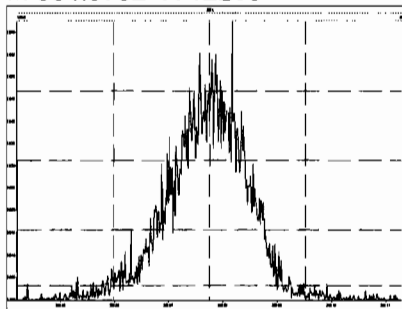
M 330.9792 R 11611



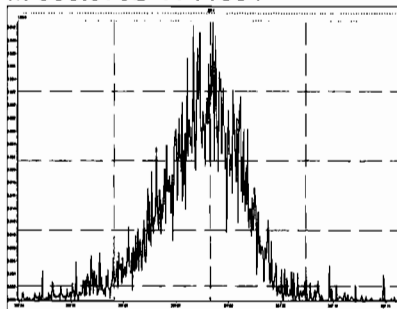
M 342.9792 R 12356



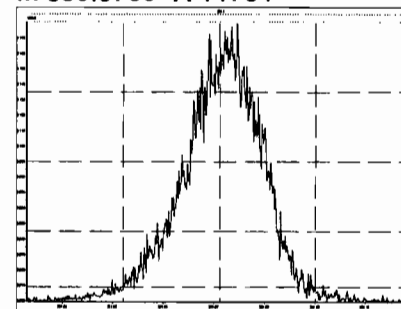
M 354.9792 R 12209



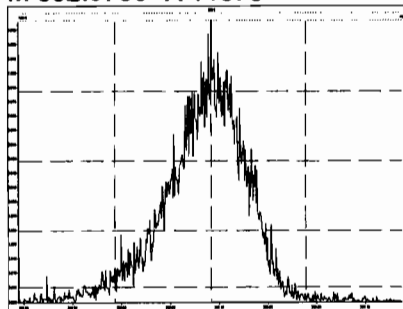
M 366.9792 R 11884



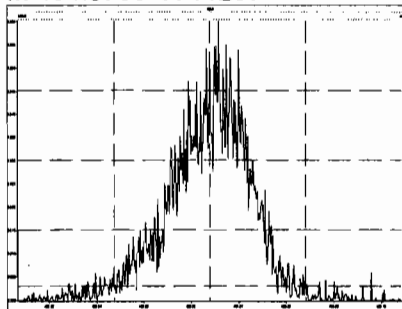
M 380.9760 R 11764



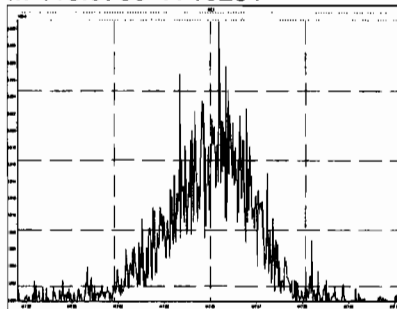
M 392.9760 R 11573



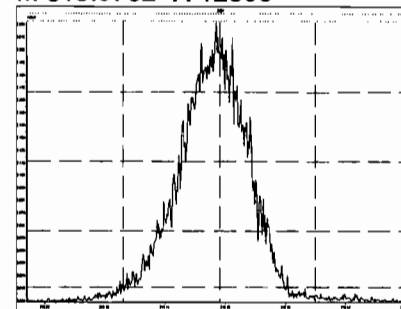
M 404.9760 R 11287



M 416.9760 R 13251

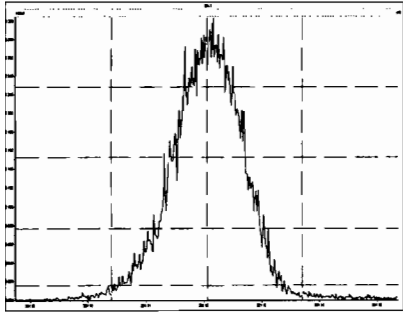


M 318.9792 R 12806

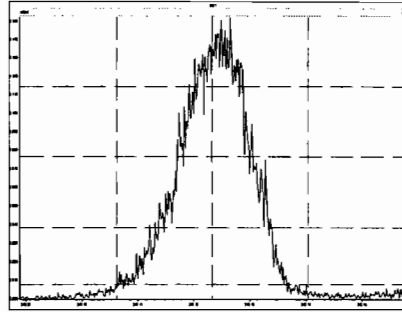


Printed: Wednesday, December 18, 2019 02:05:14 Pacific Standard Time

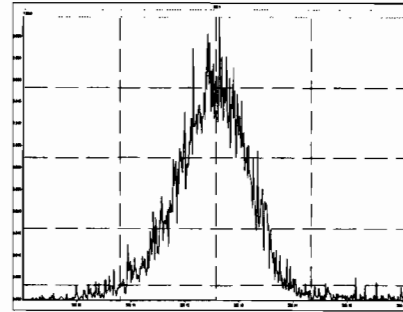
M 330.9792 R 11990



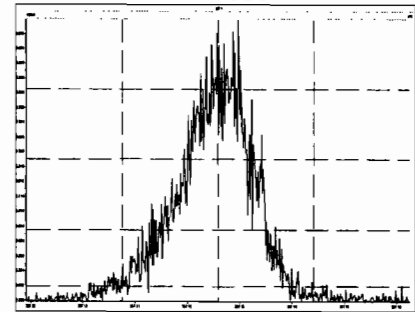
M 342.9792 R 12077



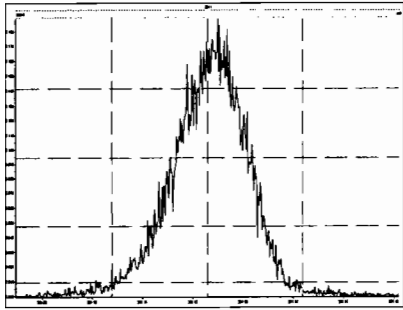
M 354.9792 R 12053



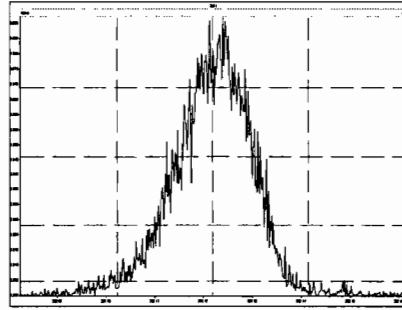
M 366.9792 R 12699



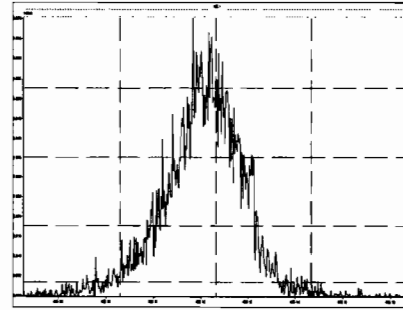
M 380.9760 R 11471



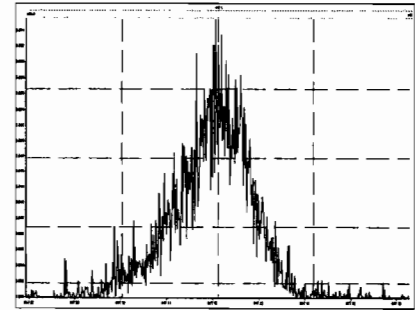
M 392.9760 R 11772



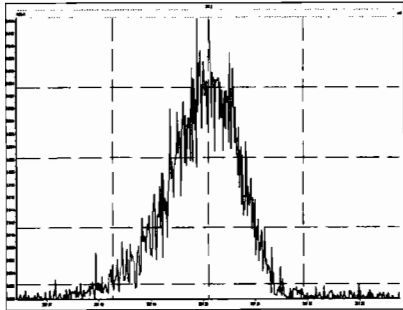
M 404.9760 R 12049



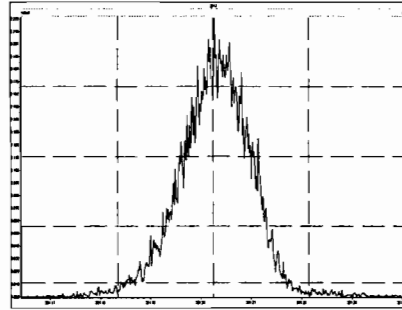
M 416.9760 R 13797



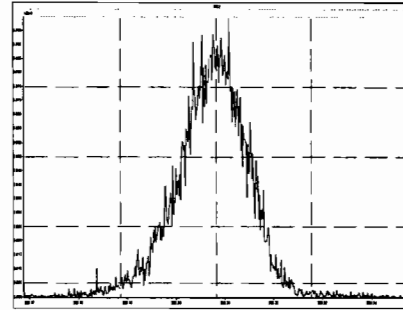
M 366.9792 R 13578



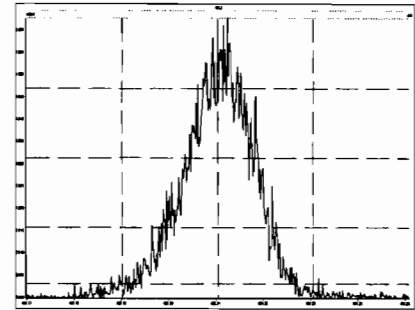
M 380.9760 R 12205



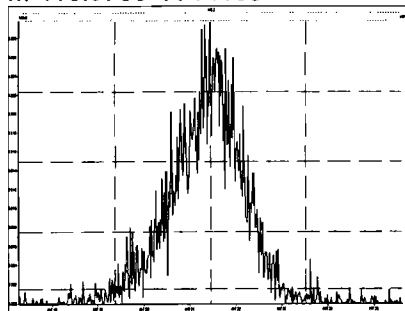
M 392.9760 R 13219



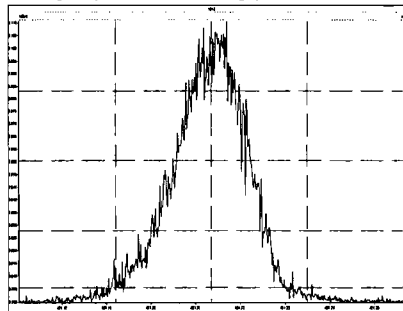
M 404.9760 R 12347



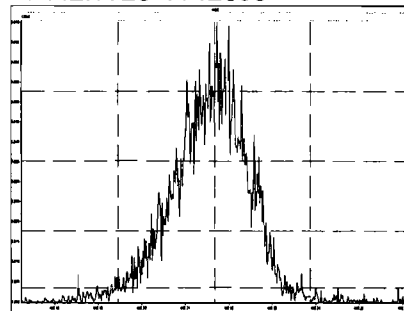
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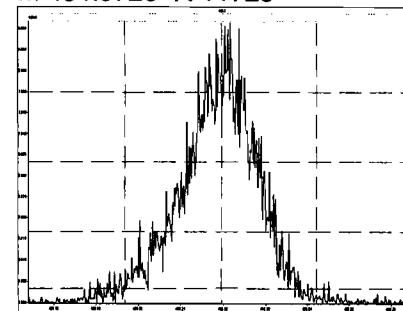
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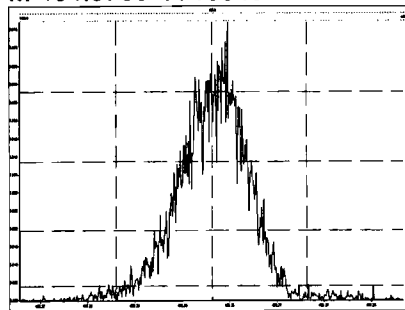
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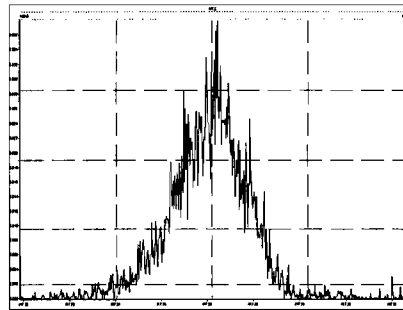
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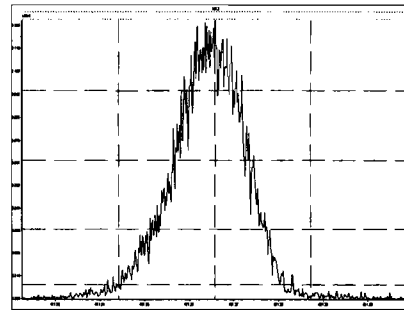
M 404.9760 R 13545



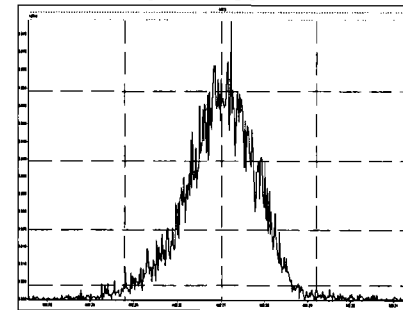
M 416.9760 R 13387



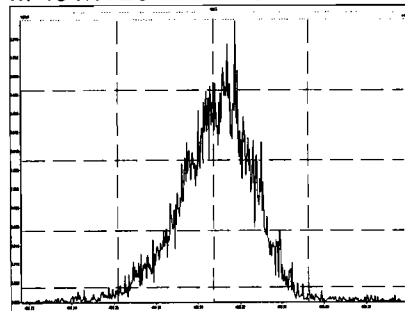
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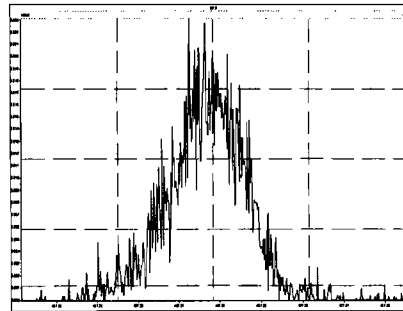
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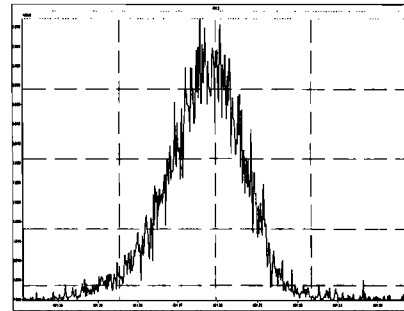
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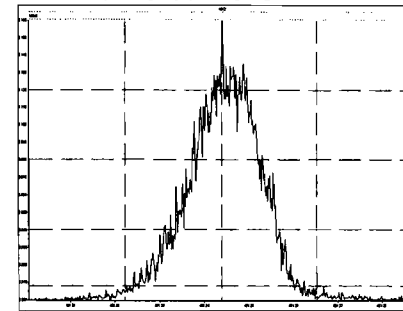
M 466.9728 R 13280



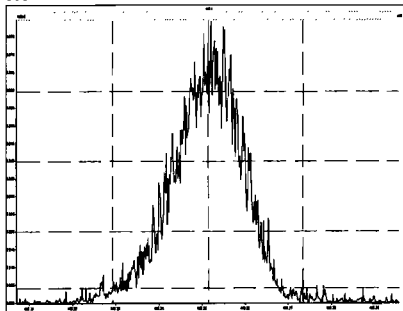
M 480.9696 R 12099



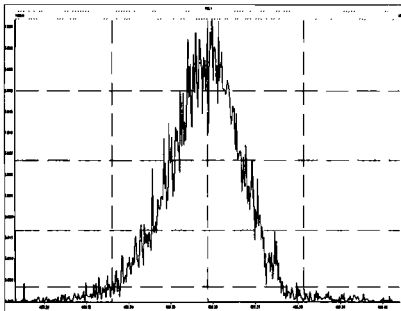
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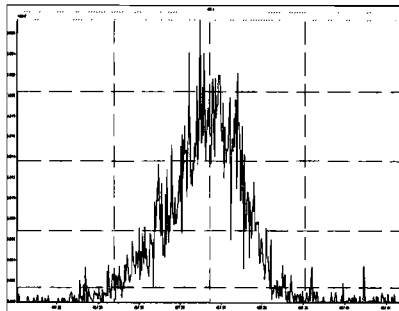
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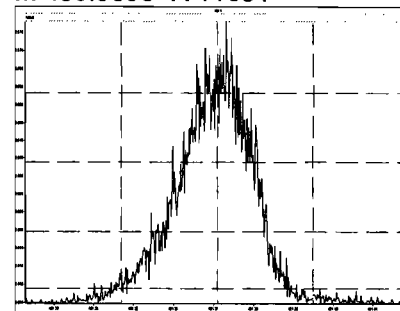
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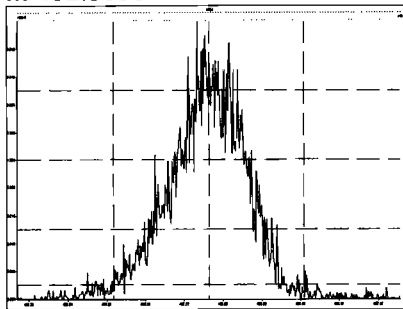
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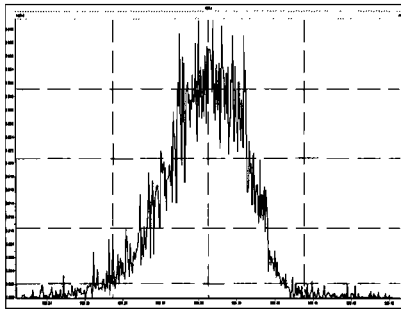
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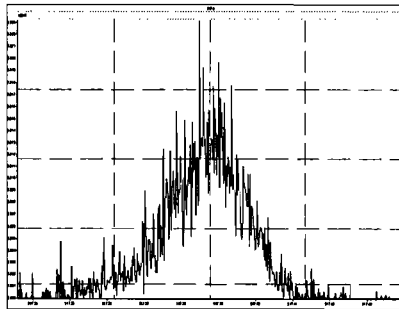
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M 504.9696 R 11720



M 516.9697 R 13826



Dataset: U:\VG11.PRO\Results\191217K3\191217K3-CPSM.qld

Last Altered: Wednesday, December 18, 2019 17:57:05 Pacific Standard Time

Printed: Wednesday, December 18, 2019 17:57:27 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\CPSM.mdb 18 Dec 2019 17:58:17

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K3\_2, Date: 18-Dec-2019, Time: 02:54:19, ID: ST191217K3-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

#	Name	RT
1	1,3,6,8-TCDD (First)	21.84
2	1,2,8,9-TCDD (Last)	27.19
3	1,2,4,7,9-PeCDD (First)	29.08
4	1,2,3,8,9-PeCDD (Last)	31.71
5	1,2,4,6,7,9-HxCDD (First)	33.20
6	1,2,3,7,8,9-HxCDD (Last)	35.05
7	1,2,3,4,6,7,9-HpCDD (First)	37.51
8	1,2,3,4,6,7,8-HpCDD (Last)	38.55
9	1,3,6,8-TCDF (First)	19.78
10	1,2,8,9-TCDF (Last)	27.34
11	1,3,4,6,8-PeCDF (First)	27.33
12	1,2,3,8,9-PeCDF (Last)	31.93
13	1,2,3,4,6,8-HxCDF (First)	32.65
14	1,2,3,7,8,9-HxCDF (Last)	35.38
15	1,2,3,4,6,7,8-HpCDF (First)	37.13
16	1,2,3,4,7,8,9-HpCDF (Last)	39.16

Dataset: U:\VG11.PRO\Results\191217K3\191217K3-CPSM.qld

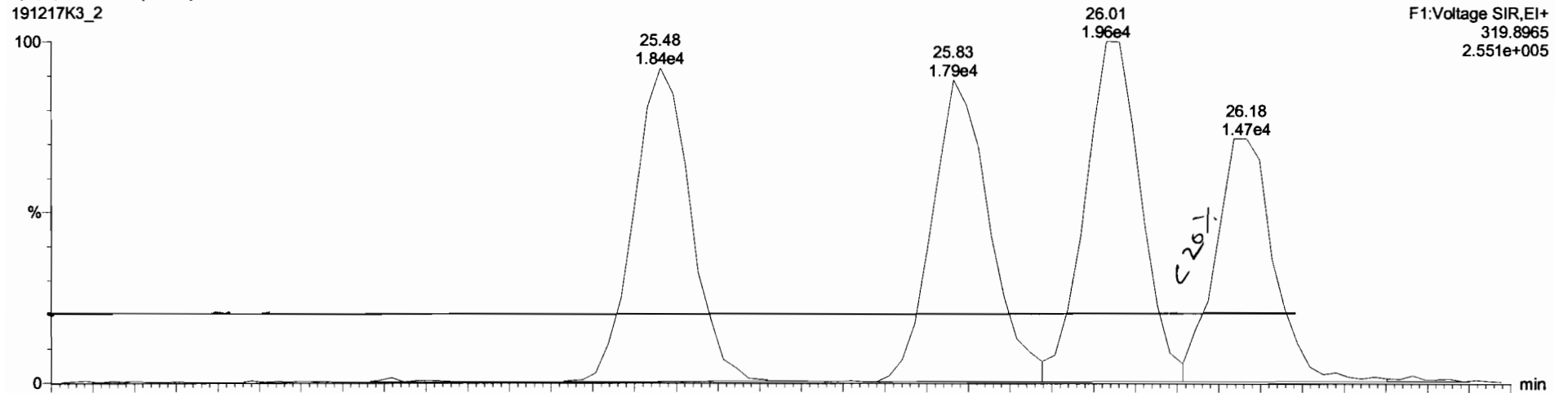
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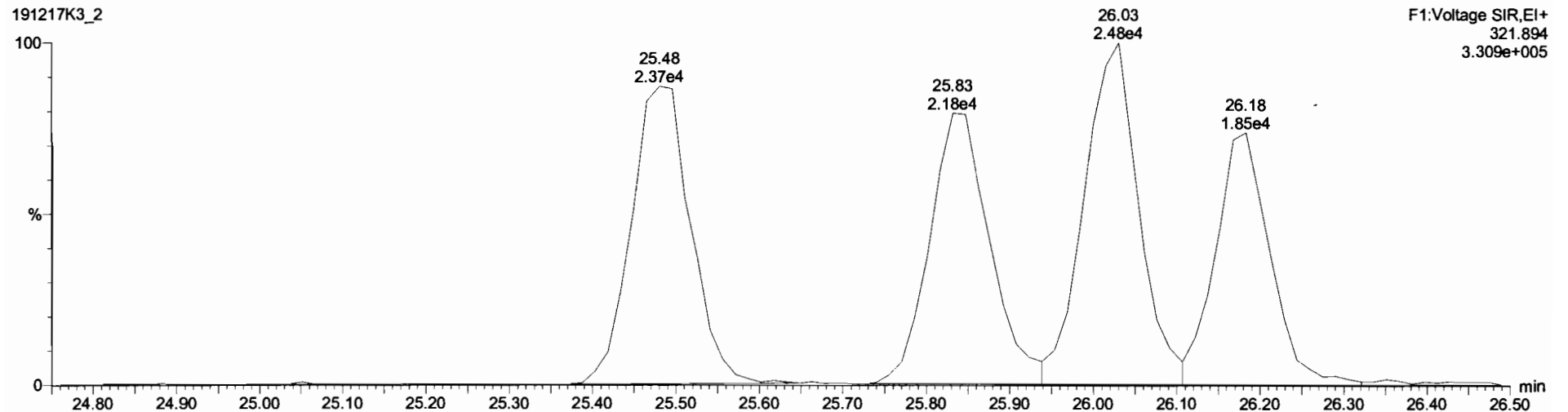
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1,3,6,8-TCDD (First)

191217K3\_2



191217K3\_2



Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

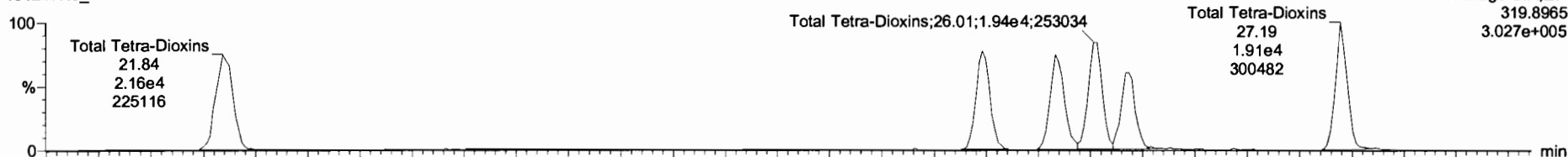
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Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

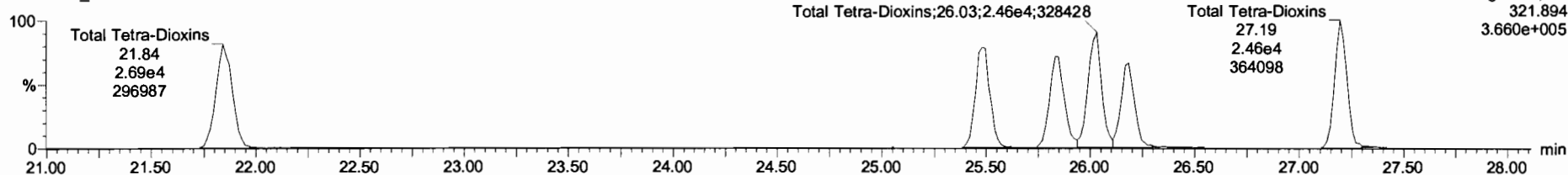
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2,3,7,8-TCDD

191217K3\_2

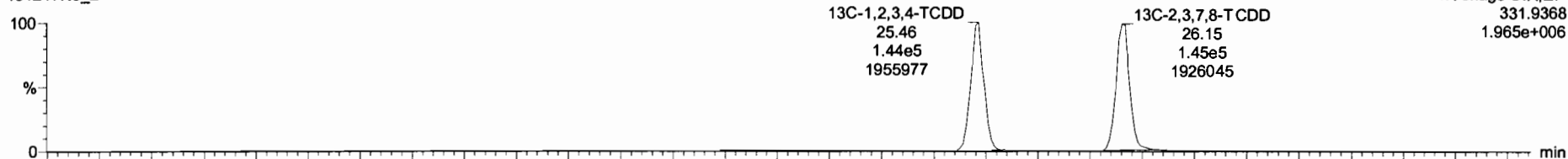


191217K3\_2

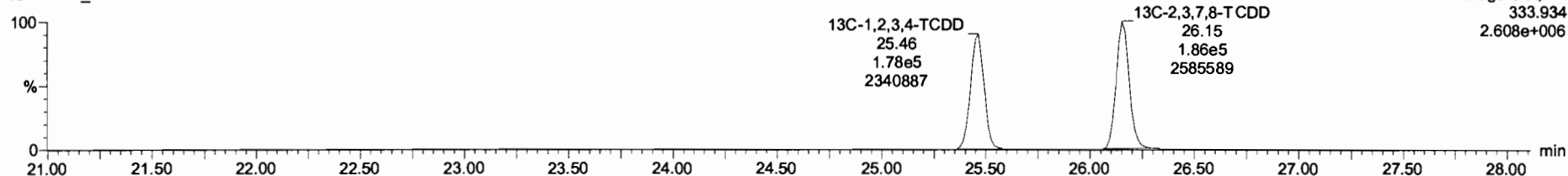


13C-2,3,7,8-TCDD

191217K3\_2



191217K3\_2



Dataset: Untitled

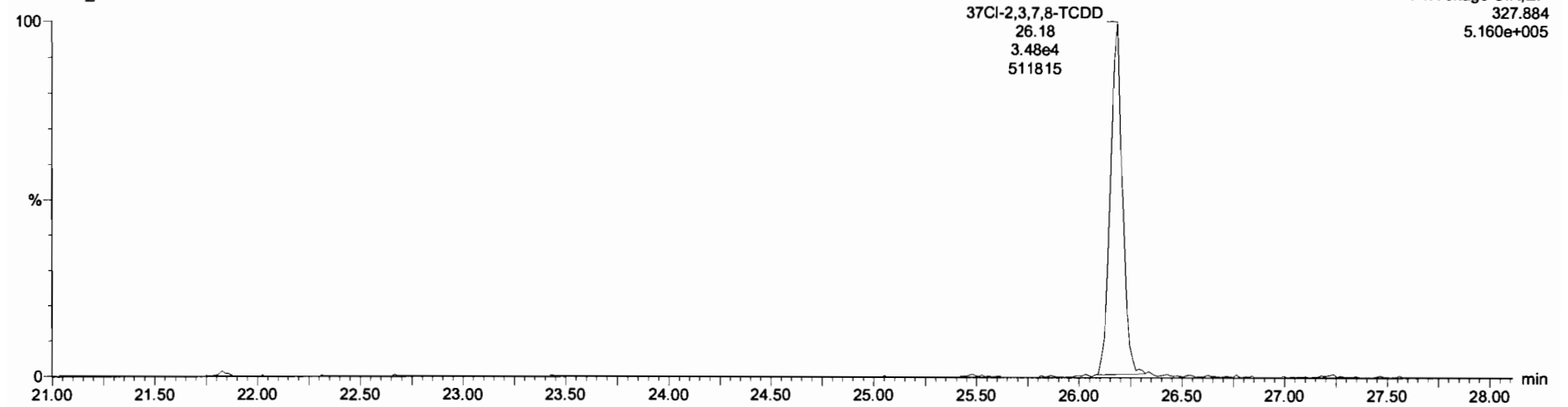
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

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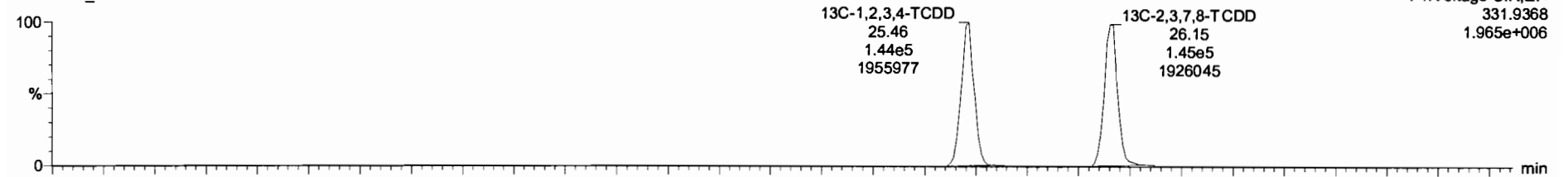
**37Cl-2,3,7,8-TCDD**

191217K3\_2

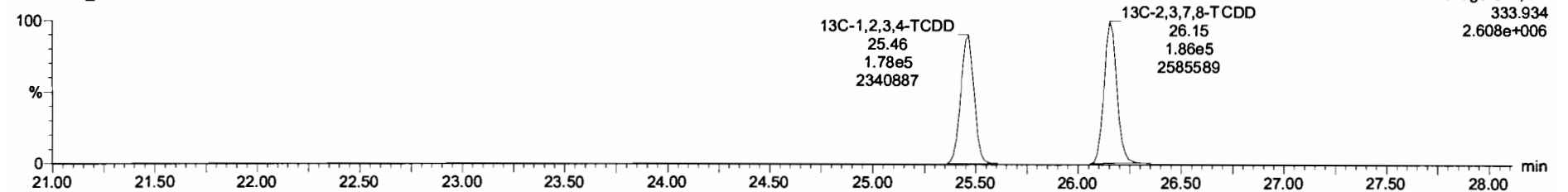


**13C-1,2,3,4-TCDD**

191217K3\_2



191217K3\_2





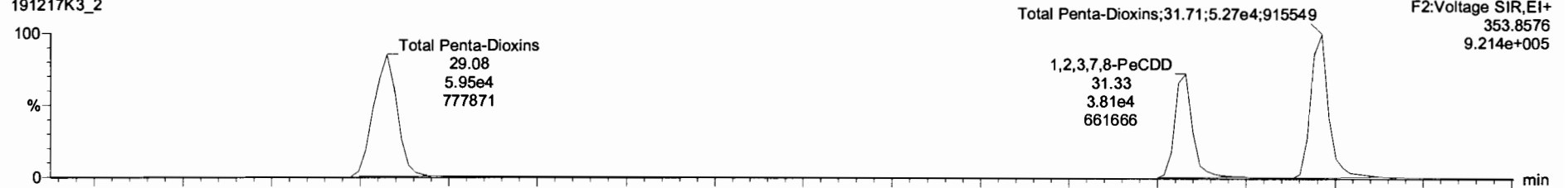
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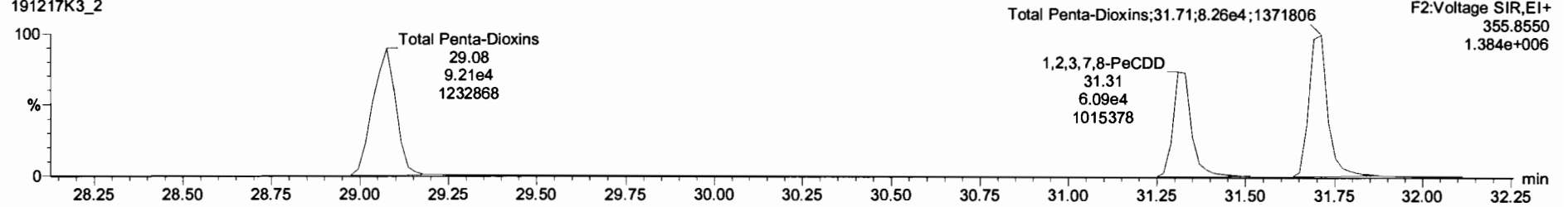
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**1,2,3,7,8-PeCDD**

191217K3\_2

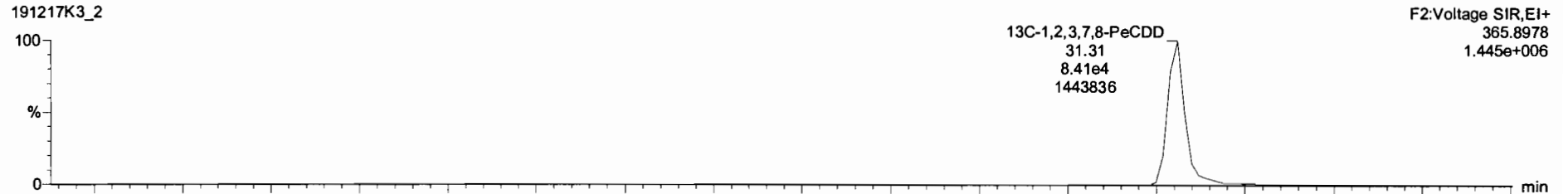


191217K3\_2

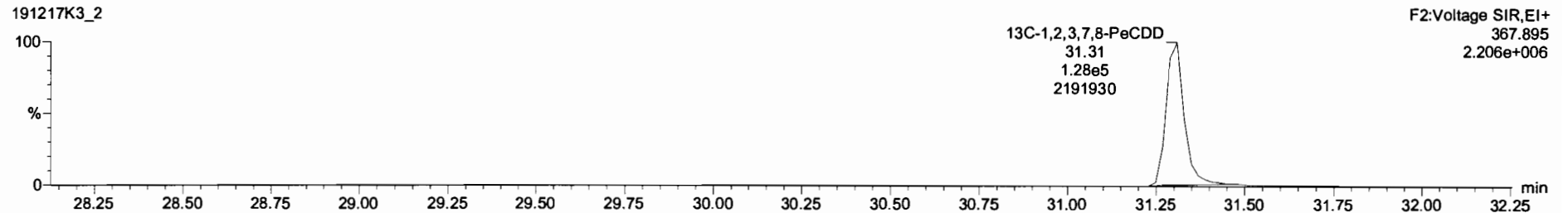


**13C-1,2,3,7,8-PeCDD**

191217K3\_2



191217K3\_2



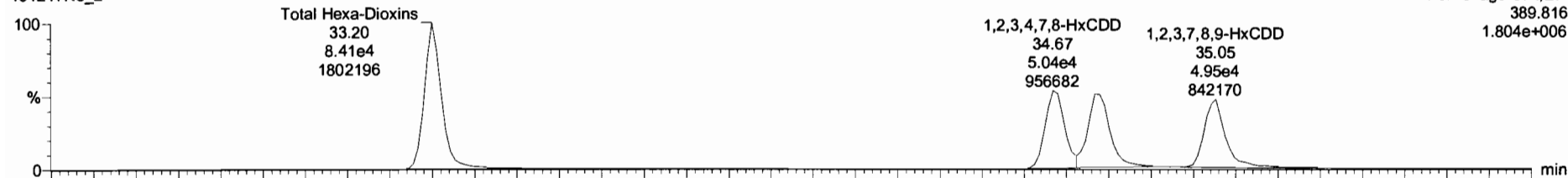
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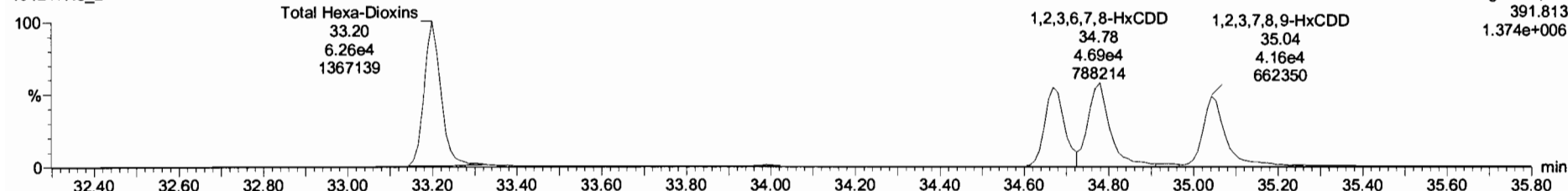
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1,2,3,4,7,8-HxCDD

191217K3\_2

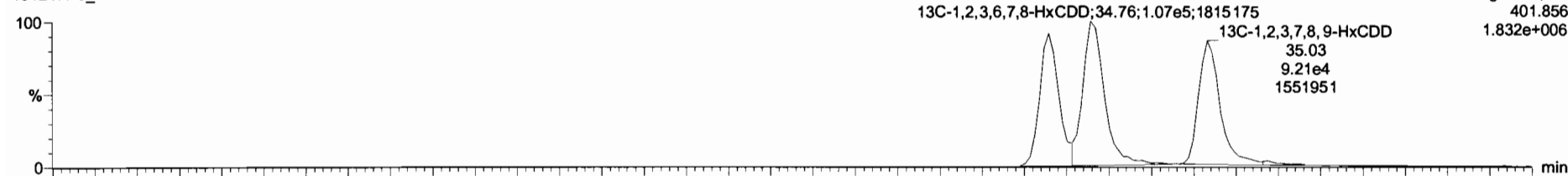


191217K3\_2

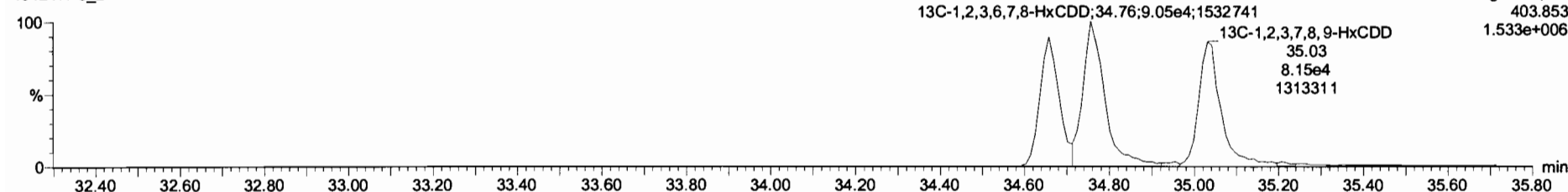


13C-1,2,3,4,7,8-HxCDD

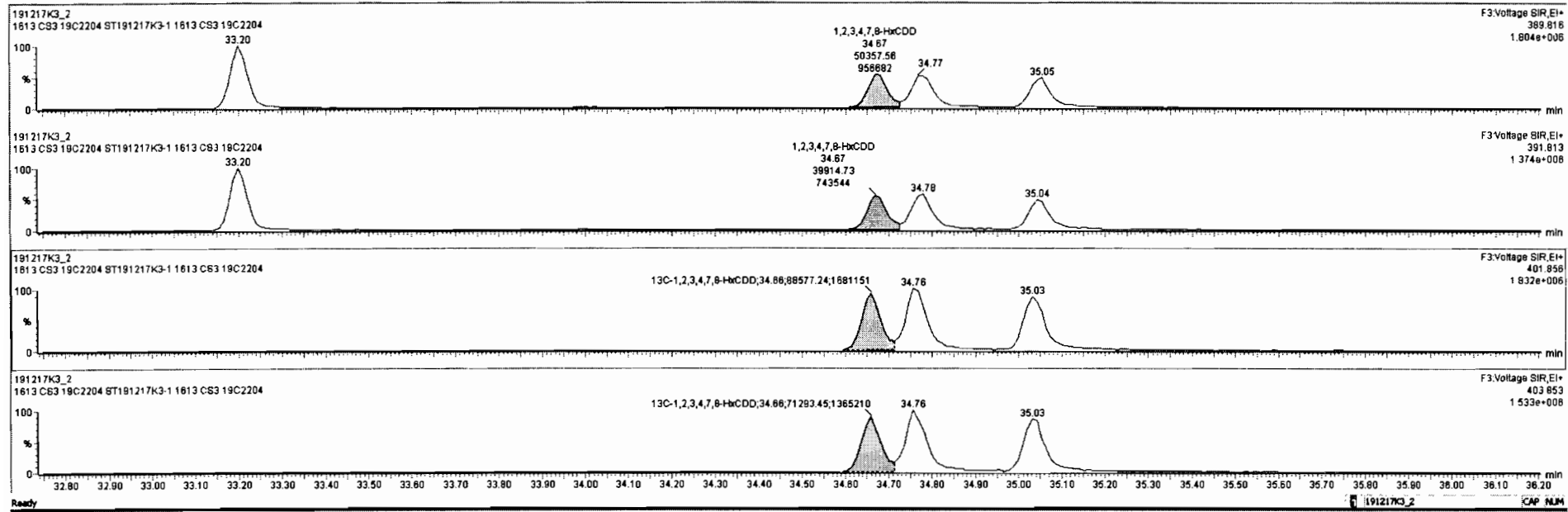
191217K3\_2



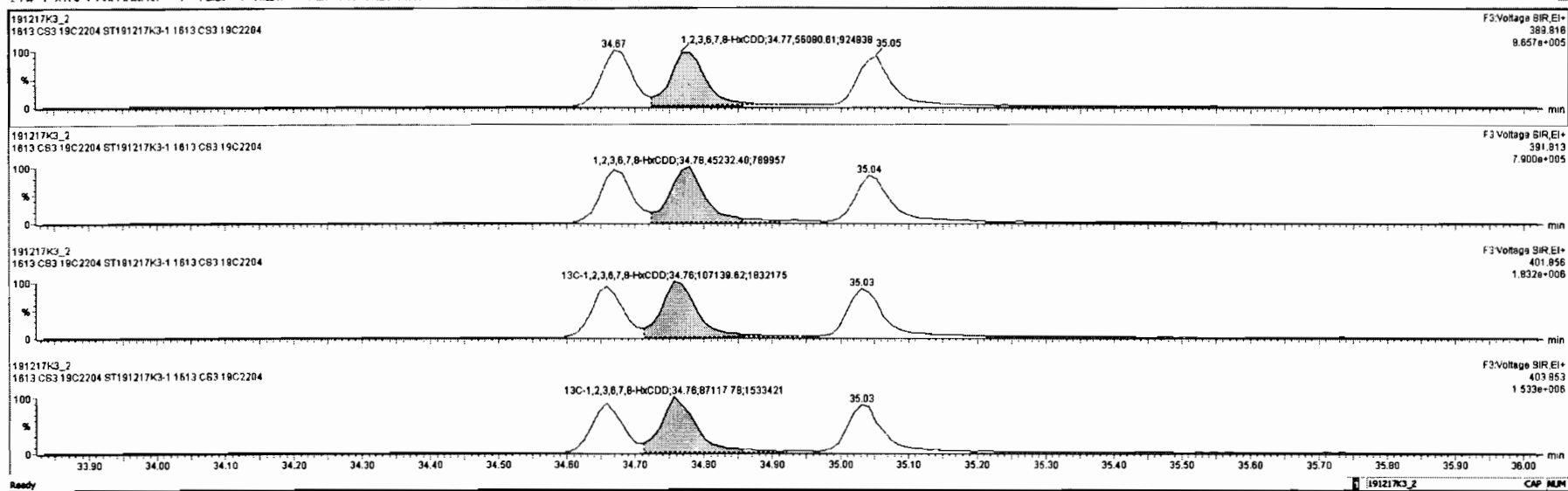
191217K3\_2



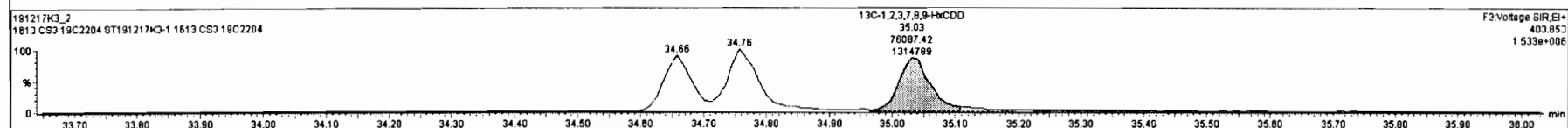
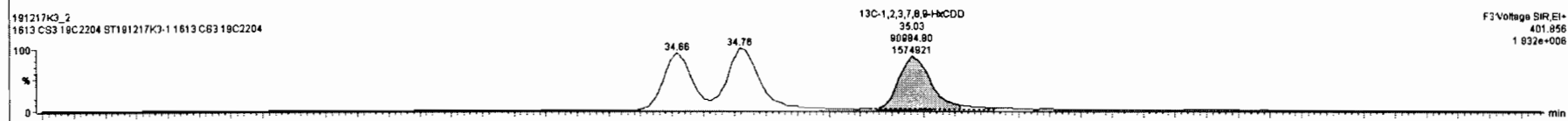
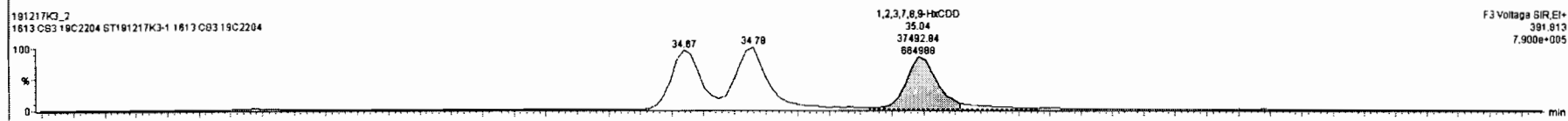
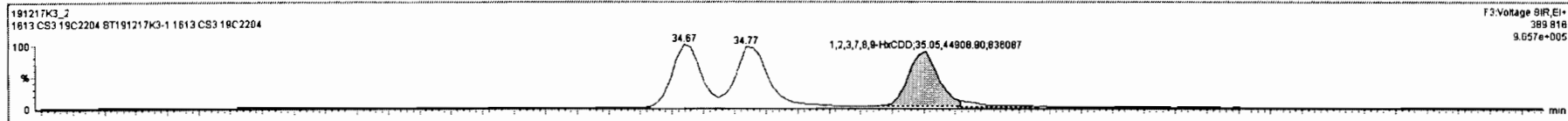
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1	1,2,3,7,8-TCDD	3.22e4	3.31e5	0.77	0.80	NO	0.9249	26.18	26.18	NO	1.001	1.001	10.5	105	NO
2	1,2,3,7,8-PeCDD	9.90e4	2.13e5	0.83	0.83	NO	0.9046	31.33	31.33	NO	1.001	1.001	51.5	103	NO
3	1,2,3,4,7,8-HxCDD	8.03e4	1.00e5	1.24	1.28	NO	1.0861	34.67	34.67	NO	1.000	1.000	82.8	108	NO
4	1,2,3,6,7,8-HxCDD	1.01e5	1.97e5	1.24	1.18	NO	0.9675	34.76	34.77	NO	1.000	1.000	53.1	106	NO
5	1,2,3,7,8,9-HxCDD	9.10e4	1.74e5	1.24	1.19	NO	0.9778	35.07	35.05	NO	1.001	1.001	53.6	107	NO
6	1,2,3,4,6,7,8-HpCDD	6.66e4	1.27e5	1.04	1.00	NO	1.0375	36.55	36.55	NO	1.000	1.000	50.6	101	NO
7	OCDD	1.21e5	2.26e5	0.86	0.92	NO	0.9718	41.81	41.82	NO	1.000	1.000	110	110	NO
8	1,2,3,7,8-TCDF	5.01e4	4.99e5	0.77	0.79	NO	0.9376	25.20	25.19	NO	1.001	1.001	10.7	107	NO
9	1,2,3,7,8-PeCDF	1.63e5	3.54e5	1.55	1.58	NO	0.9762	30.02	30.02	NO	1.001	1.001	52.9	106	NO
10	1,2,3,4,7,8-HxCDF	1.78e5	3.21e5	1.55	1.51	NO	1.0049	31.02	31.01	NO	1.001	1.001	54.8	109	NO
11	1,2,3,4,7,8-HxCDF	1.51e5	2.35e5	1.24	1.25	NO	1.2434	33.80	33.81	NO	1.000	1.000	51.8	104	NO
12	1,2,3,6,7,8-HxCDF	1.75e5	2.96e5	1.24	1.22	NO	1.0950	33.92	33.92	NO	1.000	1.000	53.9	108	NO
13	1,2,3,4,6,7,8-HpCDF	1.81e5	2.46e5	1.24	1.21	NO	1.1806	34.52	34.50	NO	1.001	1.001	55.5	111	NO
14	1,2,3,7,8,9-HxCDF	1.23e5	2.11e5	1.24	1.19	NO	1.0729	35.37	35.36	NO	1.000	1.000	54.4	109	NO
15	1,2,3,4,6,7,8-HpCDF	1.21e5	1.89e5	1.04	1.09	NO	1.1300	37.15	37.13	NO	1.001	1.000	53.7	107	NO
16	1,2,3,4,7,8,9-HpCDF	0.98e4	1.36e5	1.04	1.04	NO	1.2809	39.15	39.16	NO	1.000	1.000	52.9	106	NO
17	OCDF	1.71e5	3.27e5	0.88	0.92	NO	1.1025	42.00	42.01	NO	1.000	1.000	95.2	95.2	NO



#	Name	Temp	IS Resp	Pred RA	RA	nY	RF	Pred RT	RT	RT Flag	Pred RRT	RRT	Cons	%Rec	STD out
3	1,2,3,4,7,8-HxCDD	9.00e4	1.80e5	1.24	1.26	NO	1.0001	34.67	34.67	NO	1.000	1.000	52.8	108	NO
4	1,2,3,6,7,8-HxCDD	7.81e5	1.86e5	1.26	1.26	NO	0.8875	34.76	34.77	NO	1.000	1.000	63.8	108	NO
5	1,2,3,7,8,9-HxCDD	8.24e4	1.67e5	1.24	1.20	NO	0.8778	35.07	35.05	NO	1.001	1.001	50.4	101	NO
6	1,2,3,4,6,7,8-HpCDD	8.33e4	1.24e5	1.04	1.03	NO	1.0375	36.55	36.55	NO	1.000	1.000	48.4	98.8	NO
7	OCDD	1.07e5	2.12e5	0.89	0.87	NO	0.8718	41.81	41.82	NO	1.000	1.000	104	104	NO
8	2,3,7,8-TCDF	5.01e4	4.89e5	0.77	0.79	NO	0.8376	25.20	25.19	NO	1.001	1.001	10.7	107	NO
9	1,2,3,7,8-HxCDF	1.83e5	3.54e5	1.55	1.68	NO	0.9762	30.02	30.02	NO	1.001	1.001	52.9	106	NO
10	2,3,4,7,8-HxCDF	1.74e5	3.21e5	1.55	1.55	NO	1.0049	31.02	31.01	NO	1.001	1.001	54.1	108	NO
11	1,2,3,4,7,8-HxCDF	1.51e5	2.35e5	1.24	1.25	NO	1.2434	33.80	33.81	NO	1.000	1.000	51.8	104	NO
12	1,2,3,6,7,8-HxCDF	1.75e5	2.98e5	1.24	1.22	NO	1.0650	33.92	33.92	NO	1.000	1.000	53.9	108	NO
13	2,3,4,6,7,8-HxCDF	1.61e5	2.48e5	1.24	1.21	NO	1.1806	34.52	34.50	NO	1.001	1.001	55.5	111	NO
14	1,2,3,7,8,9-HxCDF	1.23e5	2.11e5	1.24	1.19	NO	1.0728	35.37	35.38	NO	1.000	1.000	54.4	109	NO
15	1,2,3,4,6,7,8-HpCDF	1.21e5	1.89e5	1.04	1.05	NO	1.1300	37.15	37.13	NO	1.001	1.000	53.7	107	NO
16	1,2,3,4,7,8,9-HpCDF	9.08e4	1.38e5	1.04	1.04	NO	1.2808	39.15	39.16	NO	1.000	1.000	52.9	106	NO
17	OCDF	1.56e5	2.99e5	0.89	0.92	NO	1.1025	42.00	42.01	NO	1.000	1.000	94.8	94.8	NO
18	13C-2,3,7,8-TCDF	3.31e5	3.22e5	0.77	0.78	NO	1.0488	26.15	26.15	NO	1.027	1.027	98.0	98.0	NO
19	13C-1,2,3,7,8-HxCDF	2.13e5	3.22e5	0.63	0.65	NO	0.7429	31.31	31.31	NO	1.230	1.229	88.8	88.8	NO
20	13C-1,2,3,4,7,8-HpCDD	1.80e5	2.89e5	1.24	1.24	NO	0.8463	34.88	34.88	NO	1.014	1.014	65.6	65.6	NO
21	13C-1,2,3,6,7,8-HxCDD	1.84e5	2.89e5	1.24	1.24	NO	0.7367	34.76	34.76	NO	1.017	1.017	66.6	66.6	NO



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RPV	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	32294	33165	0.77	0.80	NO	0.9249	26.18	26.18	NO	1.001	1.001	10.5	105	NO
2	1,2,3,7,8-PeCDD	90064	21365	0.63	0.63	NO	0.9046	31.33	31.33	NO	1.001	1.001	51.5	103	NO
3	1,2,3,4,7,8-HxCDD	90364	18065	1.24	1.26	NO	1.0691	34.67	34.67	NO	1.000	1.000	52.8	106	NO
4	1,2,3,6,7,8-HxCDD	90864	18665	1.24	1.19	NO	0.9675	34.76	34.77	NO	1.000	1.000	54.8	110	NO
5	1,2,3,7,8,9-HxCDD	82364	18765	1.24	1.20	NO	0.9779	35.07	35.05	NO	1.001	1.001	50.4	101	NO
6	1,2,3,4,6,7,8-HpCDD	66664	12765	1.04	1.00	NO	1.0375	36.55	36.55	NO	1.000	1.000	50.6	101	NO
7	OCDD	12165	22665	0.89	0.92	NO	0.8718	41.81	41.82	NO	1.000	1.000	110	110	NO
8	1,2,3,7,8-TCDF	50164	48965	0.77	0.79	NO	0.9378	25.20	25.19	NO	1.001	1.001	10.7	107	NO
9	1,2,3,7,8-PeCDF	18365	35465	1.55	1.59	NO	0.8762	30.02	30.02	NO	1.001	1.001	52.9	106	NO
10	1,2,3,4,7,8-PeCDF	17865	32165	1.55	1.51	NO	1.0049	31.02	31.01	NO	1.001	1.001	54.6	108	NO
11	1,2,3,4,7,8-HxCDF	15165	23565	1.24	1.25	NO	1.2434	33.80	33.81	NO	1.000	1.000	51.8	104	NO
12	1,2,3,6,7,8-HxCDF	17565	29665	1.24	1.22	NO	1.0660	33.82	33.92	NO	1.000	1.000	53.9	108	NO
13	1,2,3,4,6,7,8-HpCDF	18165	24665	1.24	1.21	NO	1.1808	34.52	34.50	NO	1.001	1.001	55.5	111	NO
14	1,2,3,7,8,9-HxCDF	12365	21165	1.24	1.18	NO	1.0728	35.37	35.36	NO	1.000	1.000	54.4	109	NO
15	1,2,3,4,6,7,8-HpCDF	12165	19965	1.04	1.06	NO	1.1300	37.15	37.13	NO	1.001	1.000	53.7	107	NO
16	1,2,3,4,7,8,9-HpCDF	90864	13665	1.04	1.04	NO	1.2609	39.15	39.16	NO	1.000	1.000	52.9	106	NO
17	OCDF	17165	32765	0.89	0.92	NO	1.1025	42.00	42.01	NO	1.000	1.000	95.2	95.2	NO



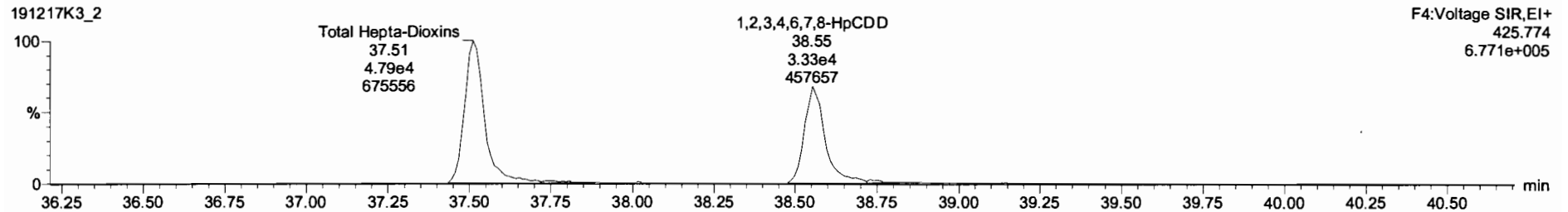
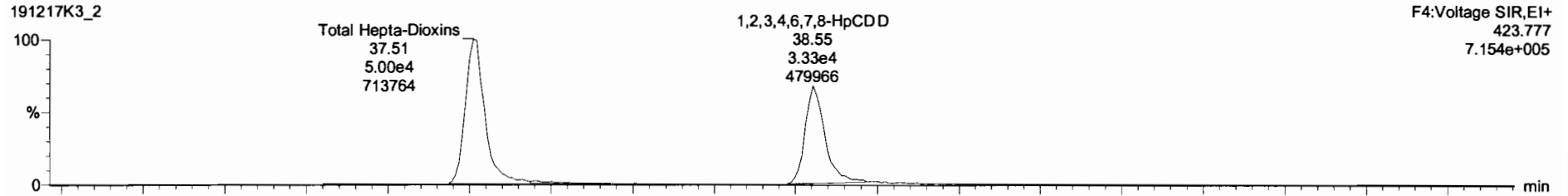
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Last Altered: Wednesday, December 18, 2019 18:18:07 Pacific Standard Time

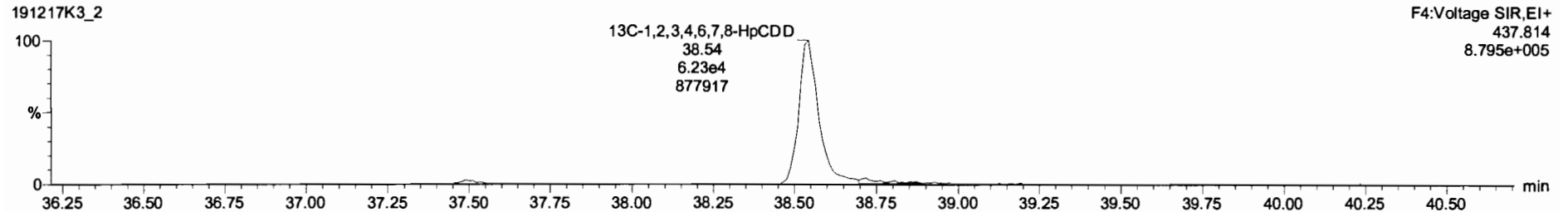
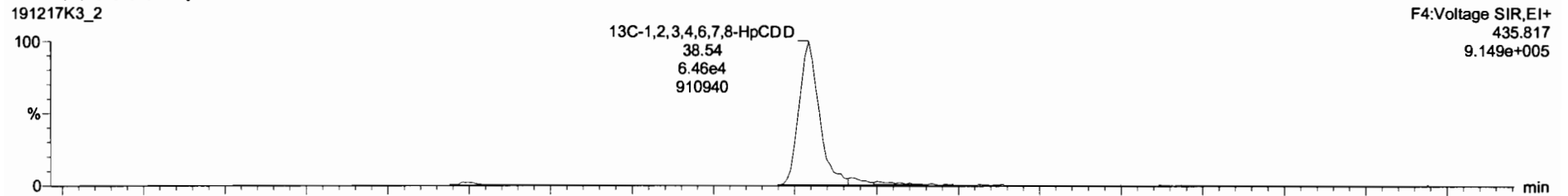
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Name: 191217K3\_2, Date: 18-Dec-2019, Time: 02:54:19, ID: ST191217K3-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

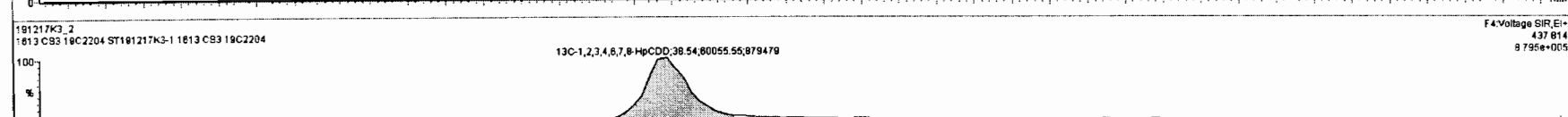
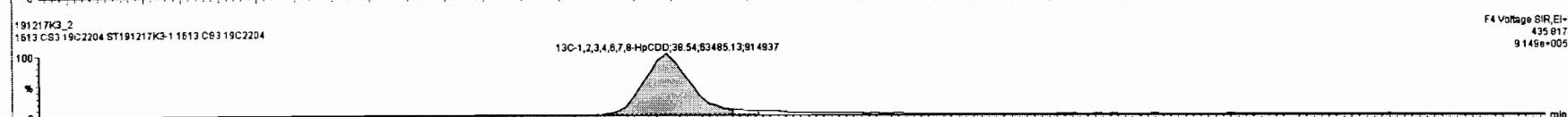
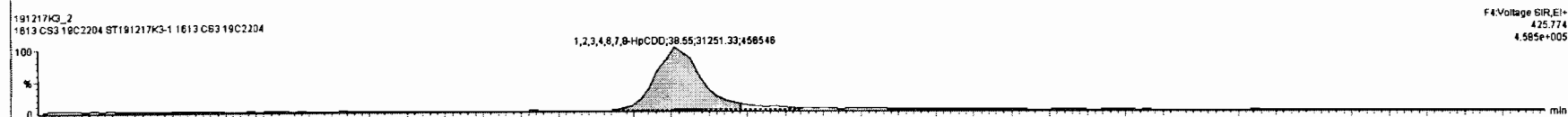
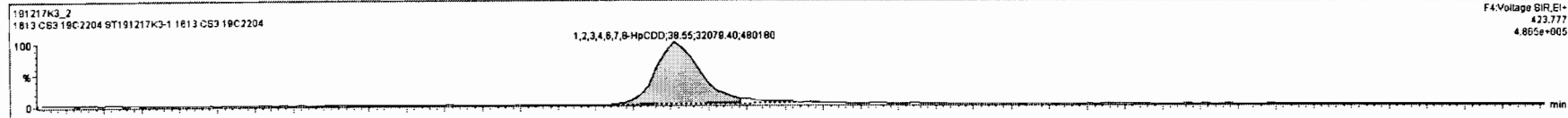
1,2,3,4,6,7,8-HpCDD



13C-1,2,3,4,6,7,8-HpCDD



#	Name	Resp	IS Resp	Final RA	RA	nly	NPF	Pred.RT	RT	RT Flag	Pred.NRT	NRT	Conc.	%Rec	STD out
1	2,3,7,8-TCDD	3.22e4	3.31e5	0.77	0.80	NO	0.9249	26.18	26.16	NO	1.001	1.001	10.5	105	NO
2	1,2,3,7,8-PeCDD	9.90e4	2.13e5	0.63	0.63	NO	0.9046	31.33	31.33	NO	1.001	1.001	51.5	103	NO
3	1,2,3,4,7,8-HxCDD	9.03e4	1.60e5	1.24	1.26	NO	1.0691	34.67	34.67	NO	1.000	1.000	52.8	106	NO
4	1,2,3,6,7,8-HxCDD	9.86e4	1.86e5	1.24	1.19	NO	0.9675	34.78	34.77	NO	1.000	1.000	54.8	110	NO
5	1,2,3,7,8,9-HxCDD	8.24e4	1.67e5	1.24	1.20	NO	0.9778	35.07	35.05	NO	1.001	1.001	50.4	101	NO
6	1,2,3,4,6,7,8-HpCDD	8.33e4	1.29e5	1.04	1.03	ND	1.0378	36.55	36.55	NO	1.000	1.000	48.4	96.8	NO
7	OCDD	1.21e5	2.26e5	0.89	0.82	NO	0.9718	41.81	41.82	NO	1.000	1.000	110	110	NO
8	2,3,7,8-TCDF	5.01e4	4.99e5	0.77	0.79	NO	0.9376	25.20	25.19	NO	1.001	1.001	10.7	107	NO
9	1,2,3,7,8-PeCDF	1.83e5	3.54e5	1.55	1.69	NO	0.9762	30.02	30.02	NO	1.001	1.001	52.9	108	NO
10	1,2,3,4,7,8-HxCDF	1.76e5	3.21e5	1.55	1.51	NO	1.0049	31.02	31.01	NO	1.001	1.001	54.6	109	NO
11	1,2,3,4,7,8,9-HxCDF	1.51e5	2.36e5	1.24	1.25	NO	1.2434	33.80	33.81	NO	1.000	1.000	51.8	104	NO
12	1,2,3,6,7,8-HxCDF	1.75e5	2.98e5	1.24	1.22	NO	1.0650	33.92	33.92	NO	1.000	1.000	53.9	108	NO
13	2,3,4,6,7,8-HxCDF	1.81e5	2.48e5	1.24	1.21	NO	1.1806	34.52	34.50	NO	1.001	1.001	55.5	111	NO
14	1,2,3,7,8,9-HxCDF	1.23e5	2.11e5	1.24	1.19	NO	1.0726	35.37	35.38	NO	1.000	1.000	54.4	109	NO
15	1,2,3,4,6,7,8-HpCDF	1.21e5	1.99e5	1.04	1.08	NO	1.1300	37.15	37.13	NO	1.001	1.000	53.7	107	NO
16	1,2,3,4,7,8,9-HpCDF	9.09e4	1.36e5	1.04	1.04	NO	1.2608	39.15	39.16	NO	1.000	1.000	52.9	106	NO
17	OCDF	1.71e5	3.27e5	0.88	0.92	NO	1.1025	42.00	42.01	NO	1.000	1.000	95.2	95.2	NO



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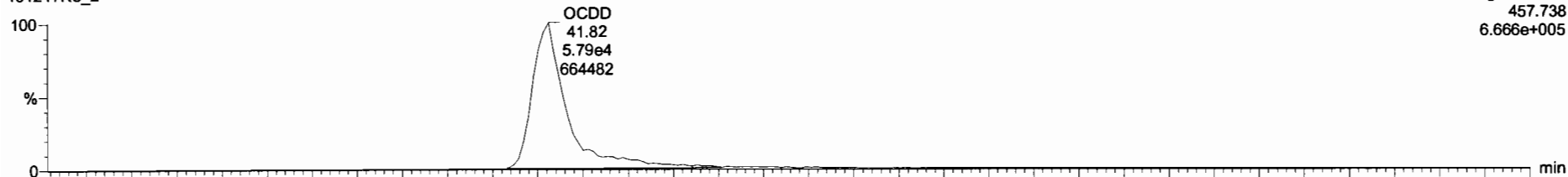
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Name: 191217K3\_2, Date: 18-Dec-2019, Time: 02:54:19, ID: ST191217K3-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

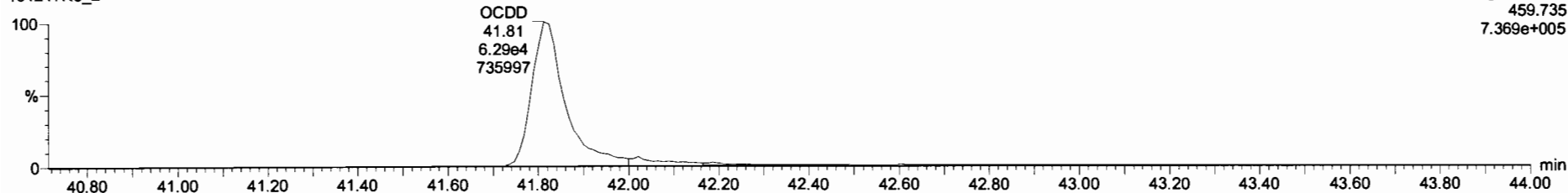
**OCDD**

191217K3\_2



F5:Voltage SIR,EI+  
457.738  
6.666e+005

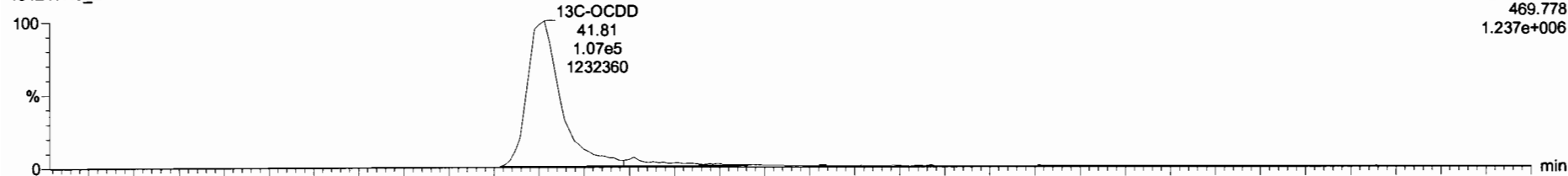
191217K3\_2



F5:Voltage SIR,EI+  
459.735  
7.369e+005

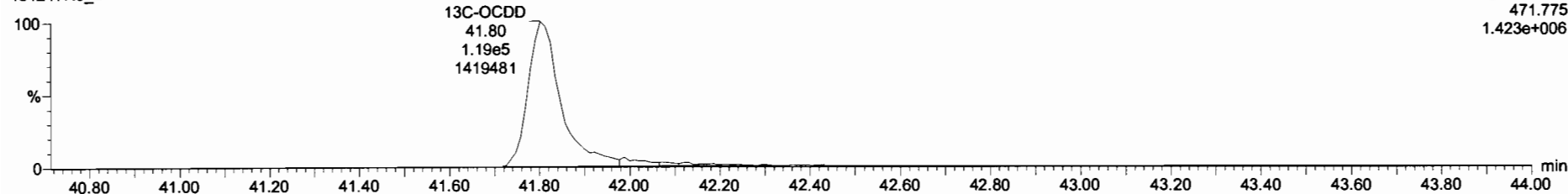
**13C-OCDD**

191217K3\_2



F5:Voltage SIR,EI+  
469.778  
1.237e+006

191217K3\_2

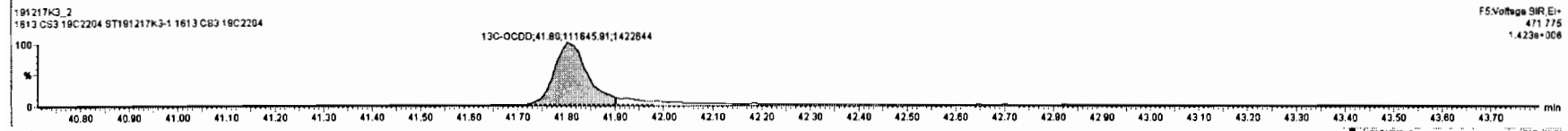
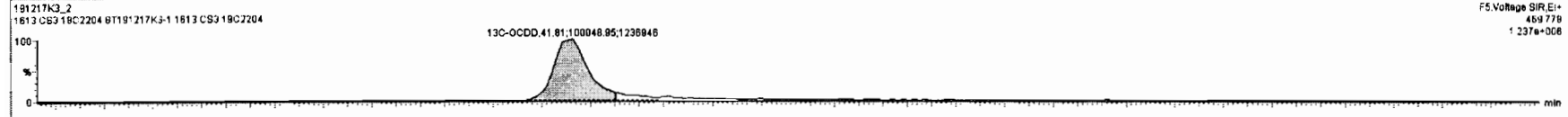
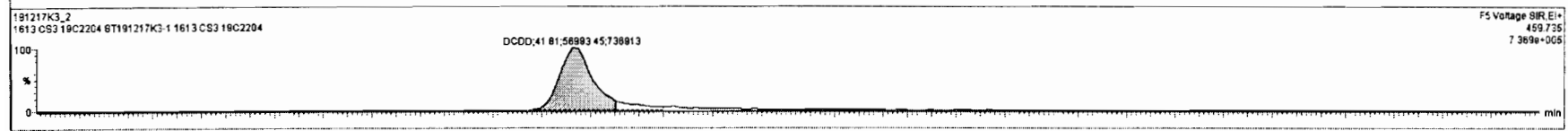
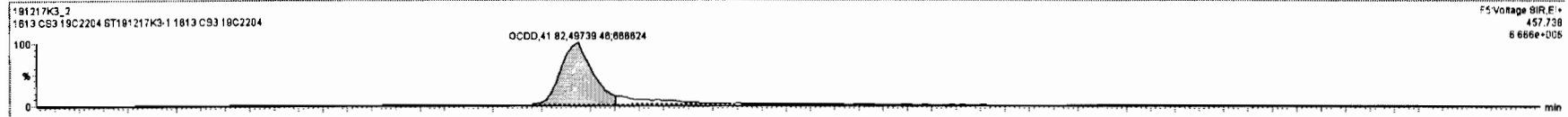


F5:Voltage SIR,EI+  
471.775  
1.423e+006





#	Name	Resp	IS Resp	Prod RA	RA	n/y	RNF	Prod RT	RT	RT Flag	Prod RRT	RRT	Conc.	%Rec	STD out
1	2,3,7,8-TCDD	3.22e4	3.31e5	0.77	0.80	NO	0.9248	26.19	26.16	NO	1.001	1.001	10.5	105	NO
2	1,2,3,7,8-PeCDD	9.00e4	2.13e5	0.83	0.83	NO	0.9046	31.33	31.33	NO	1.001	1.001	51.5	103	NO
3	1,2,3,4,7,8-HxCDD	9.03e4	1.60e5	1.24	1.28	NO	1.0691	34.87	34.87	NO	1.000	1.000	52.8	108	NO
4	1,2,3,6,7,8-HxCDD	9.09e4	1.86e5	1.24	1.19	NO	0.9675	34.78	34.77	NO	1.000	1.000	54.8	110	NO
5	1,2,3,7,8-HxCDD	8.24e4	1.57e5	1.24	1.20	NO	0.9778	35.07	35.05	NO	1.001	1.001	60.4	101	NO
6	1,2,3,4,6,7,8-HpCDD	6.33e4	1.24e5	1.04	1.03	NO	1.0375	38.55	38.55	NO	1.000	1.000	48.4	98.8	NO
7	OCDD	1.87e5	2.13e5	0.88	0.87	NO	0.8718	41.81	41.82	NO	1.000	1.000	104	104	NO
8	2,3,7,8-TCDF	5.01e4	4.99e5	0.77	0.78	NO	0.9378	25.20	25.19	NO	1.001	1.001	10.7	107	NO
9	1,2,3,7,8-PeCDF	1.83e5	3.54e5	1.55	1.68	NO	0.9782	30.02	30.02	NO	1.001	1.001	52.9	108	NO
10	2,3,4,7,8-PeCDF	1.78e5	3.21e5	1.55	1.51	NO	1.0048	31.02	31.01	NO	1.001	1.001	54.8	109	NO
11	1,2,3,6,7,8-HxCDF	1.51e5	2.35e5	1.24	1.25	NO	1.2434	33.80	33.81	NO	1.000	1.000	51.8	104	NO
12	1,2,3,6,7,8-HxCDF	1.75e5	2.98e5	1.24	1.22	NO	1.0950	33.92	33.92	NO	1.000	1.000	53.9	108	NO
13	2,3,4,6,7,8-HxCDF	1.61e5	2.48e5	1.24	1.21	NO	1.1805	34.52	34.50	NO	1.001	1.001	55.5	111	NO
14	1,2,3,7,8,9-HxCDF	1.23e5	2.11e5	1.24	1.19	NO	1.0726	35.37	35.36	NO	1.000	1.000	54.4	109	NO
15	1,2,3,4,6,7,8-HpCDF	1.21e5	1.99e5	1.04	1.06	NO	1.1300	37.15	37.13	NO	1.001	1.000	53.7	107	NO
16	1,2,3,4,7,8,9-HpCDF	8.09e4	1.39e5	1.04	1.04	NO	1.2809	39.15	39.18	NO	1.000	1.000	52.9	108	NO
17	OCDF	1.71e5	3.27e5	0.88	0.92	NO	1.1025	42.00	42.01	NO	1.000	1.000	95.2	95.2	NO

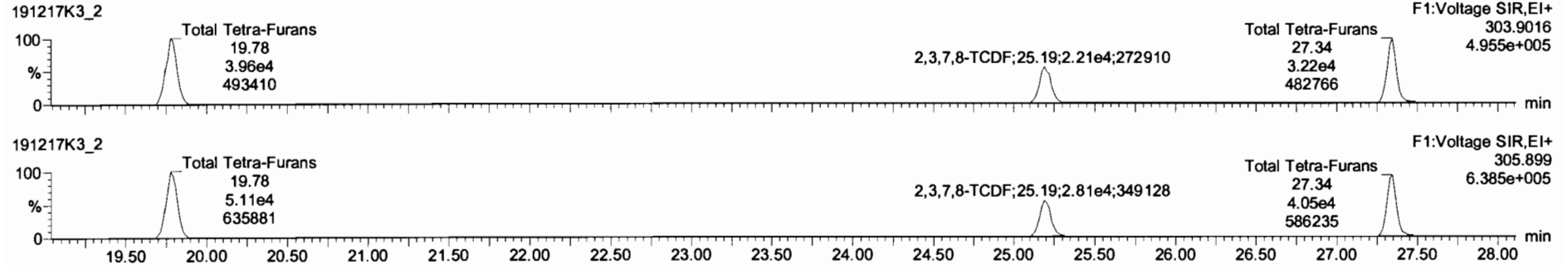


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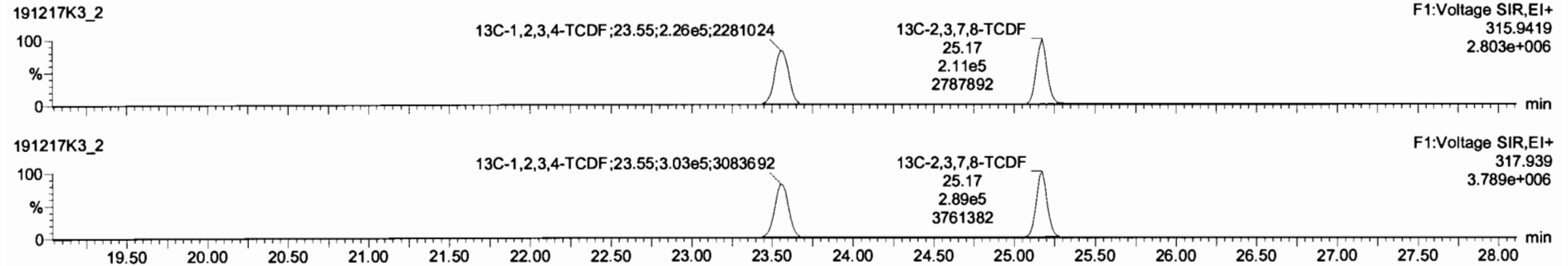
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

Name: 191217K3\_2, Date: 18-Dec-2019, Time: 02:54:19, ID: ST191217K3-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

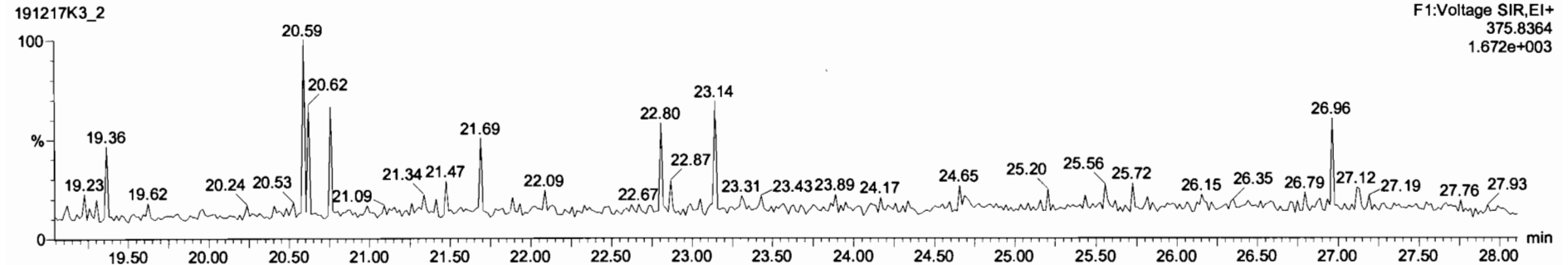
**2,3,7,8-TCDF**



**13C-2,3,7,8-TCDF**



**DPE1**



Dataset: Untitled

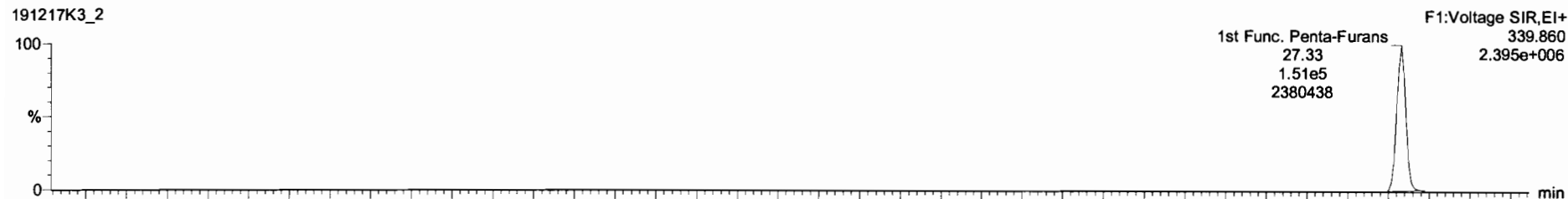
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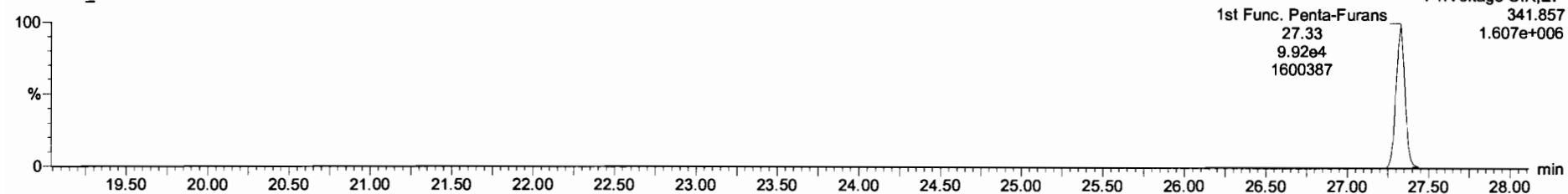
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1st Func. Penta-Furans

191217K3\_2

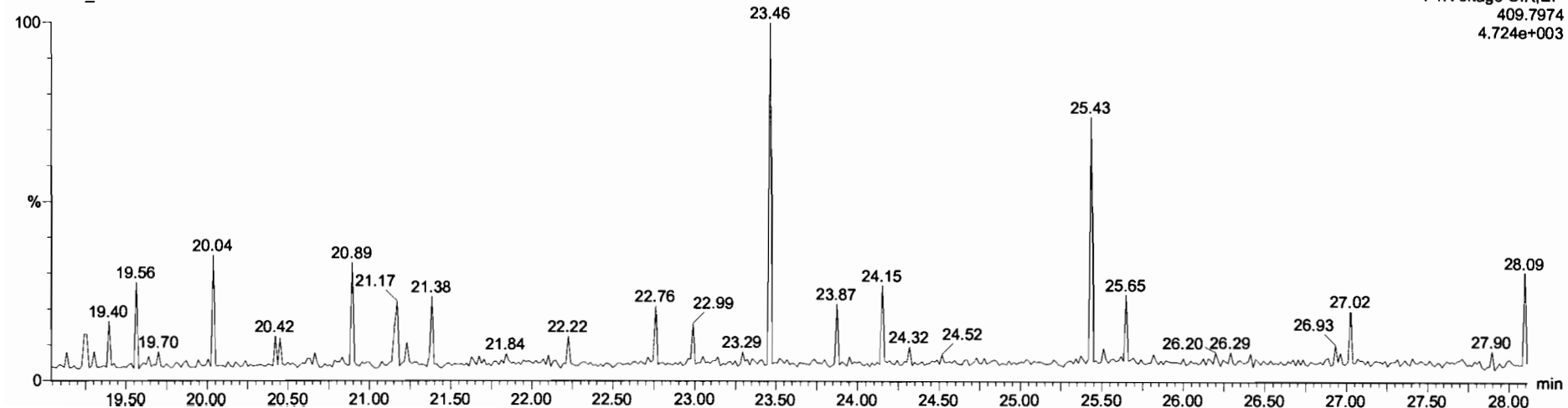


191217K3\_2



DPE6

191217K3\_2



Dataset: Untitled

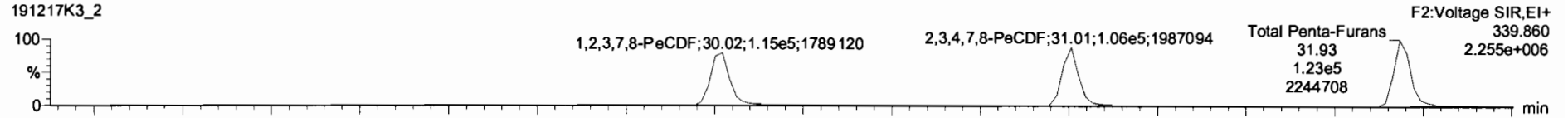
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Printed: Wednesday, December 18, 2019 18:18:52 Pacific Standard Time

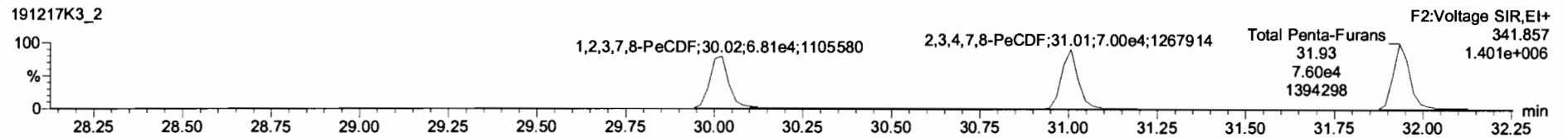
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**1,2,3,7,8-PeCDF**

191217K3\_2

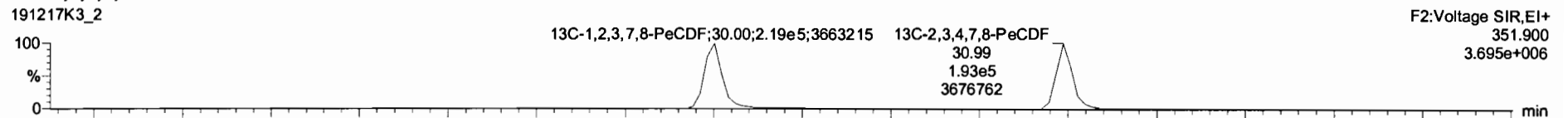


191217K3\_2

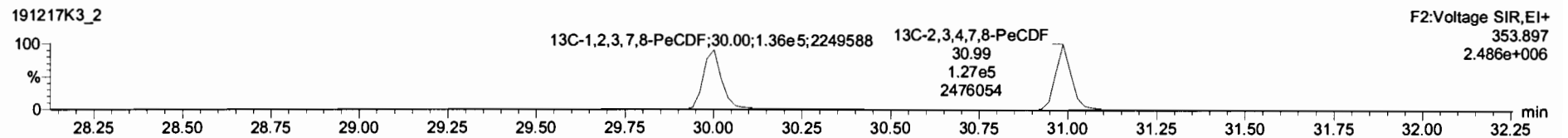


**13C-1,2,3,7,8-PeCDF**

191217K3\_2

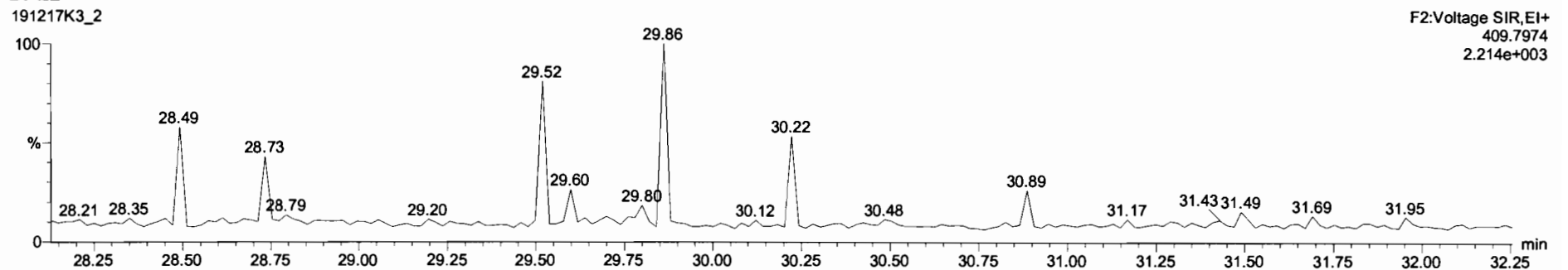


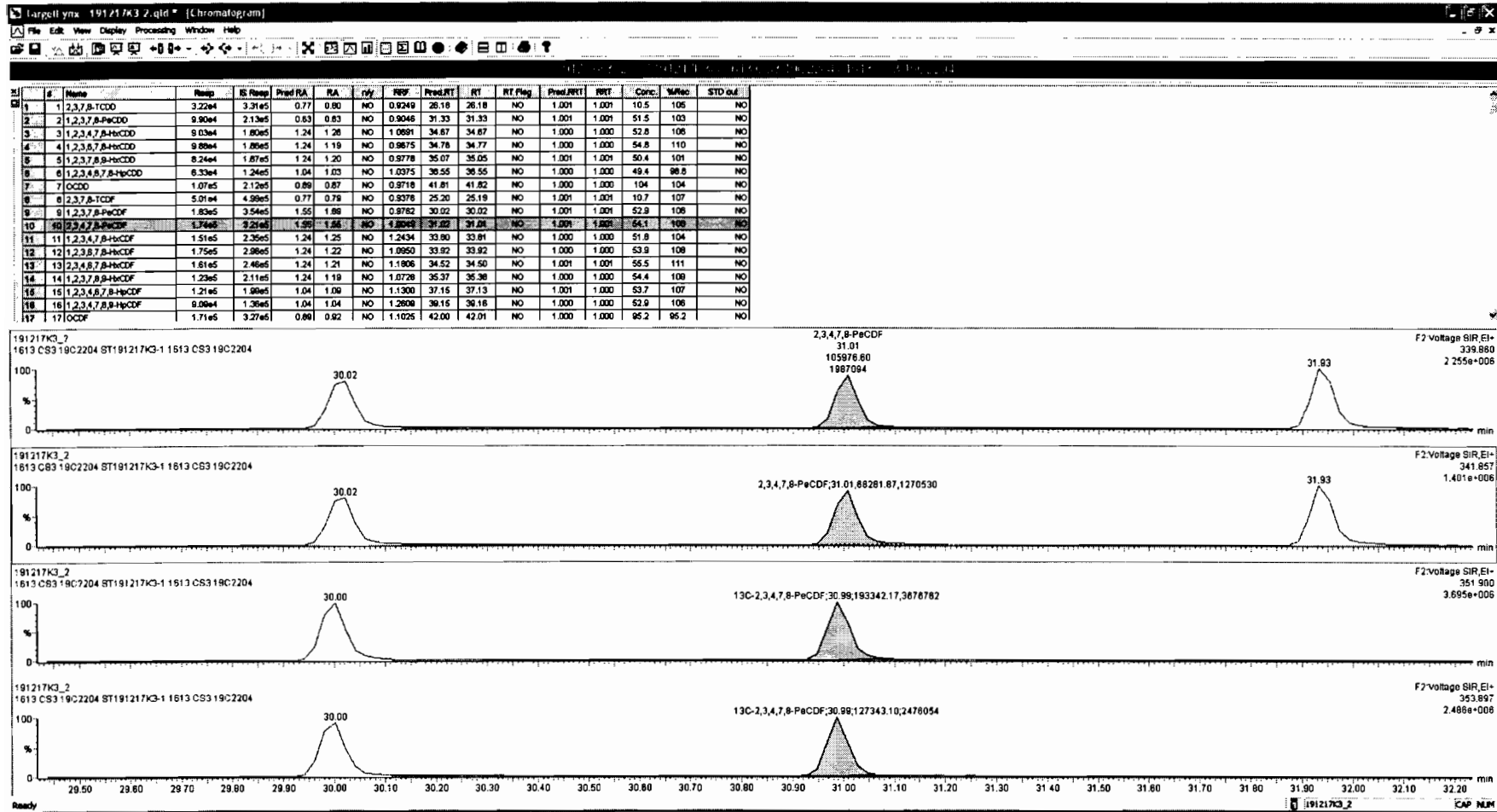
191217K3\_2



**DPE2**

191217K3\_2





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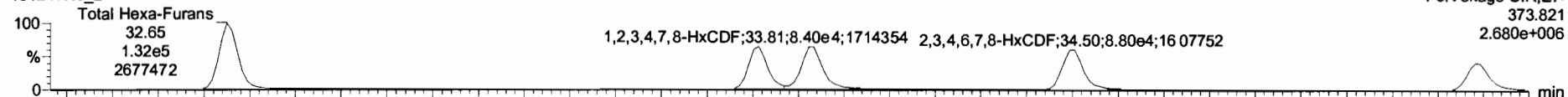
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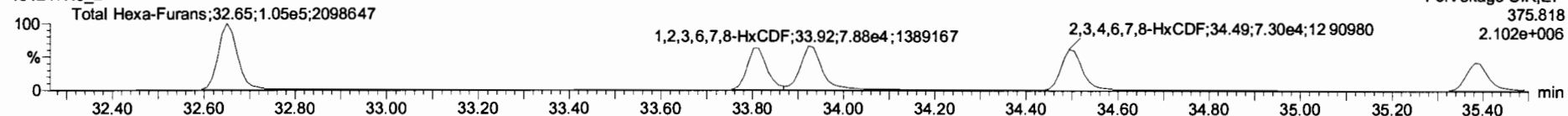
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**1,2,3,4,7,8-HxCDF**

191217K3\_2

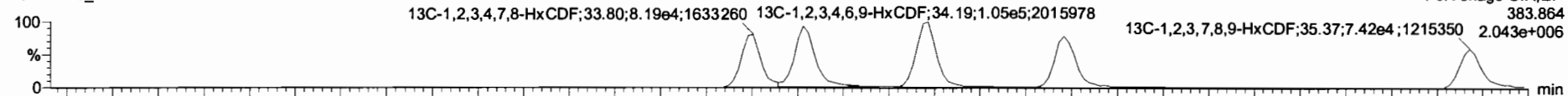


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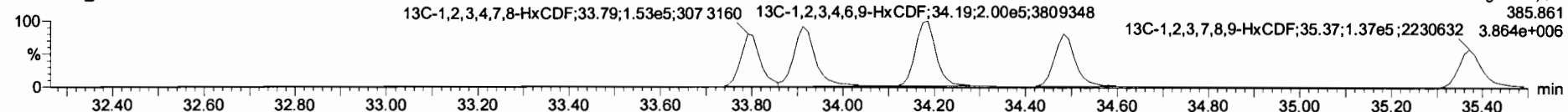


**13C-1,2,3,4,7,8-HxCDF**

191217K3\_2

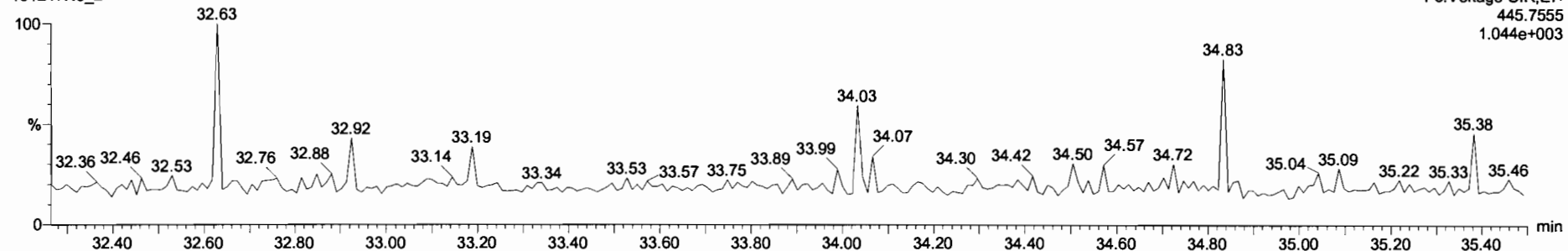


191217K3\_2



**DPE3**

191217K3\_2

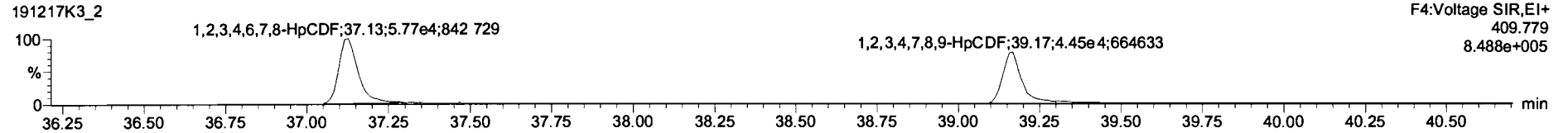
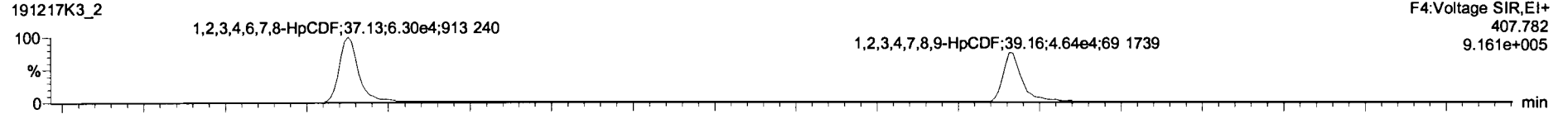


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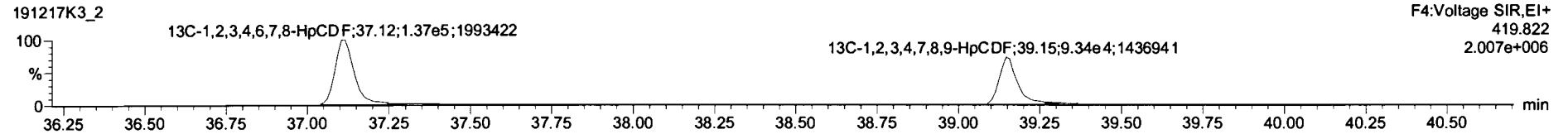
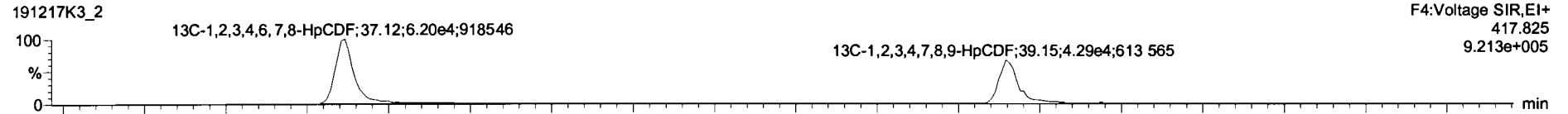
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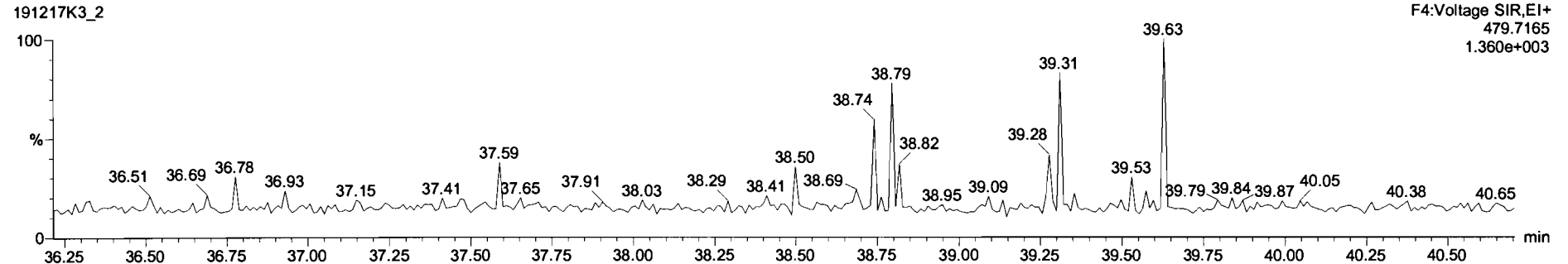
**1,2,3,4,6,7,8-HpCDF**



**13C-1,2,3,4,6,7,8-HpCDF**



**DPE4**

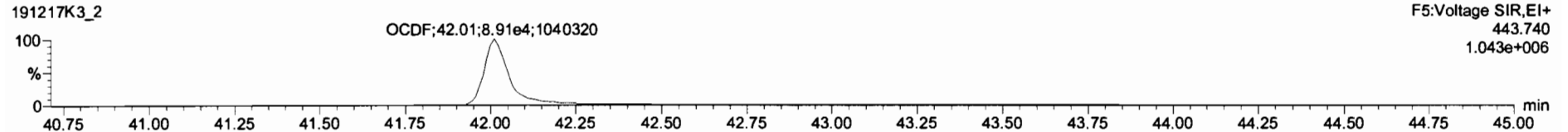
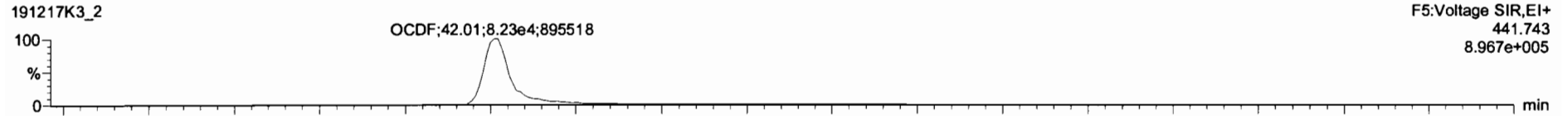


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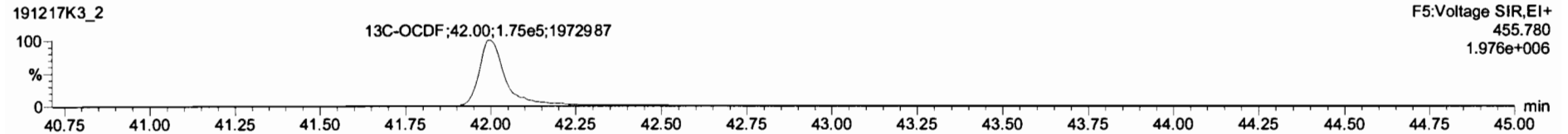
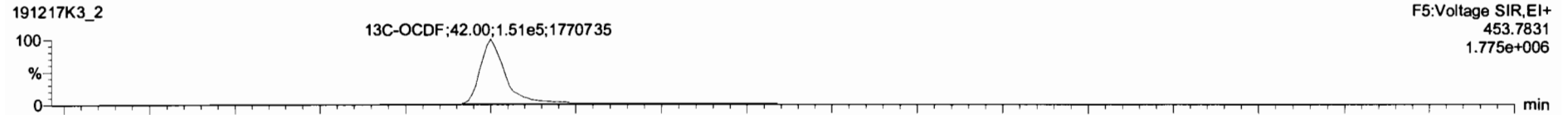
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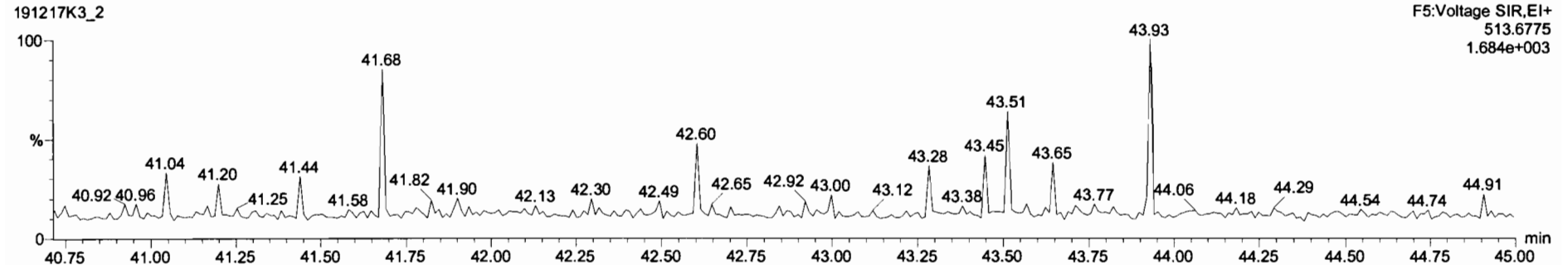
**OCDF**



**13C-OCDF**



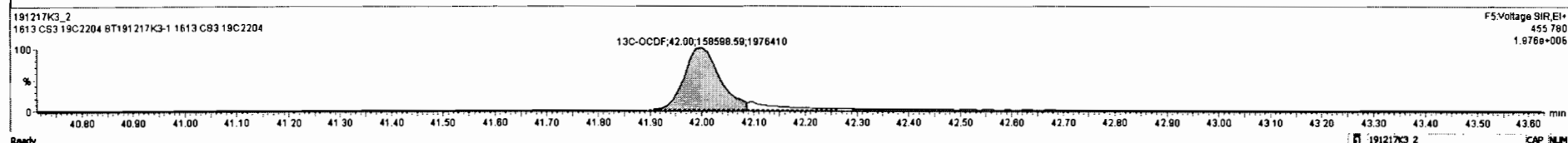
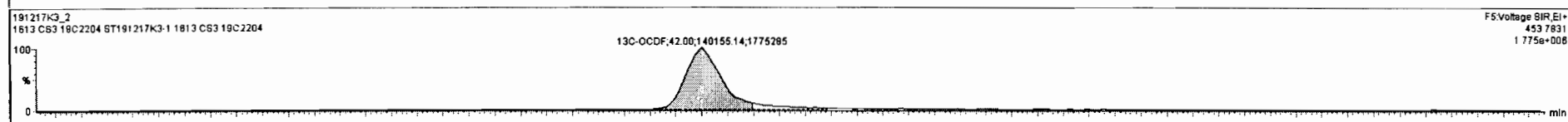
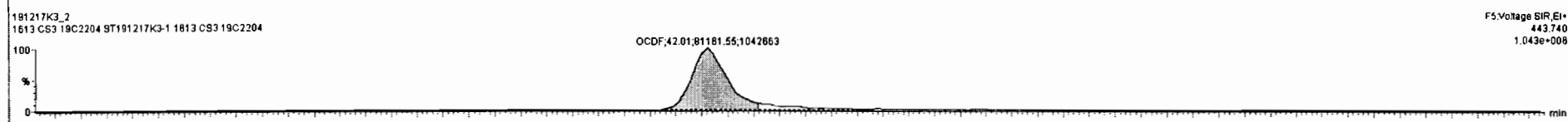
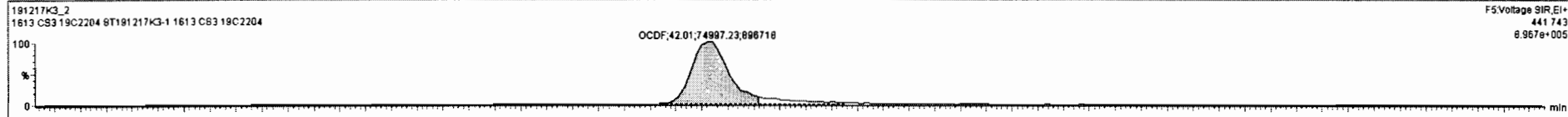
**DPE5**







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16	1,2,3,4,7,8,9-HpCDF	9.09e4	1.36e5	1.04	1.04	NO	1.2609	39.15	39.16	NO	1.000	1.000	52.9	106	NO
17	OCDF	1.28e5	2.88e5	0.80	0.80	NO	1.1026	42.00	42.01	NO	1.000	1.000	94.8	94.8	NO
18	13C-2,3,7,8-TCDD	3.31e5	3.22e5	0.77	0.78	NO	1.0489	26.16	26.15	NO	1.027	1.027	98.0	98.0	NO
19	13C-1,2,3,7,8-PeCDD	2.13e5	3.22e5	0.63	0.65	NO	0.7429	31.31	31.31	NO	1.230	1.229	88.8	88.8	NO
20	13C-1,2,3,4,7,8-HxCDD	1.80e5	2.89e5	1.24	1.24	NO	0.8463	34.86	34.86	NO	1.014	1.014	85.6	85.6	NO
21	13C-1,2,3,6,7,8-HxCDD	1.86e5	2.89e5	1.24	1.20	NO	0.7767	34.76	34.76	NO	1.017	1.017	83.1	83.1	YES
22	13C-1,2,3,7,8-HxCDD	1.87e5	2.89e5	1.24	1.20	NO	0.6595	35.03	35.03	NO	1.025	1.025	87.7	87.7	NO
23	13C-1,2,3,4,6,7,8-HpCDD	1.24e5	2.89e5	1.04	1.06	NO	0.5342	38.53	38.54	NO	1.127	1.127	80.1	80.1	NO
24	13C-OCDD	2.12e5	2.89e5	0.89	0.90	NO	0.4704	41.81	41.81	NO	1.223	1.223	156	77.9	NO
25	13C-2,3,7,8-TCDF	4.99e5	5.29e5	0.77	0.73	NO	0.9775	25.17	25.17	NO	0.989	0.989	98.5	98.5	NO
26	13C-1,2,3,7,8-PeCDF	3.54e5	5.29e5	1.55	1.61	NO	0.7778	30.00	30.00	NO	1.178	1.178	86.1	86.1	NO
27	13C-2,3,4,7,8-PeCDF	3.21e5	5.29e5	1.55	1.52	NO	0.7489	30.98	30.99	NO	1.217	1.217	80.8	80.8	NO
28	13C-1,2,3,4,7,8-HxCDF	2.35e5	2.89e5	0.51	0.54	NO	0.8452	33.80	33.80	NO	0.989	0.989	96.1	96.1	NO
29	13C-1,2,3,6,7,8-HxCDF	2.96e5	2.89e5	0.51	0.52	NO	1.0267	33.91	33.91	NO	0.992	0.992	99.8	99.8	NO
30	13C-2,3,4,6,7,8-HxCDF	2.46e5	2.89e5	0.51	0.54	NO	0.8829	34.49	34.48	NO	1.009	1.009	95.3	95.3	NO
31	13C-1,2,3,7,8,9-HxCDF	2.11e5	2.89e5	0.51	0.54	NO	0.7343	35.38	35.37	NO	1.035	1.035	88.5	88.5	NO
32	13C-1,2,3,4,6,7,8-HpCDF	1.99e5	2.89e5	0.44	0.45	NO	0.7542	37.11	37.12	NO	1.085	1.086	91.2	91.2	NO

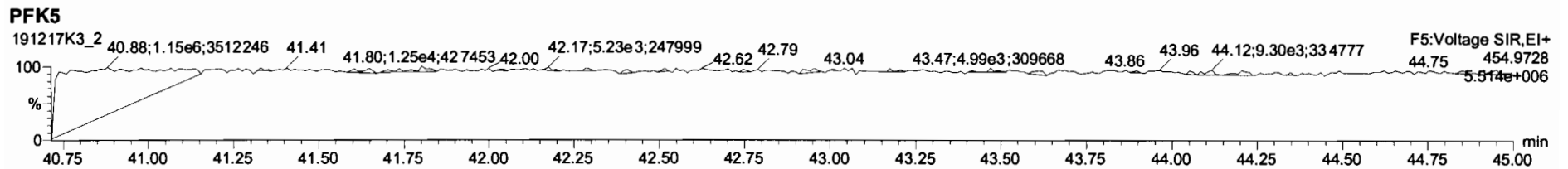
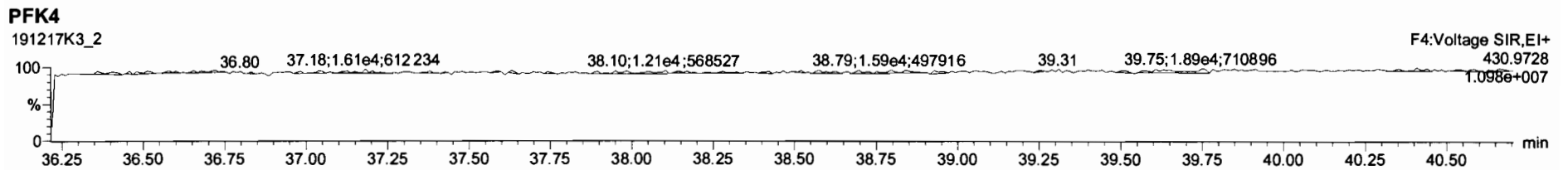
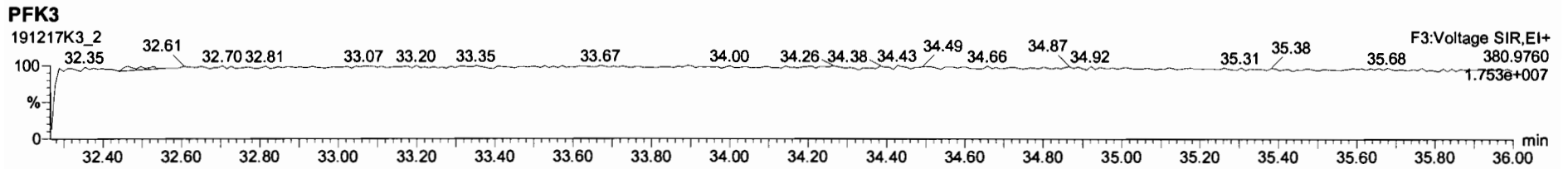
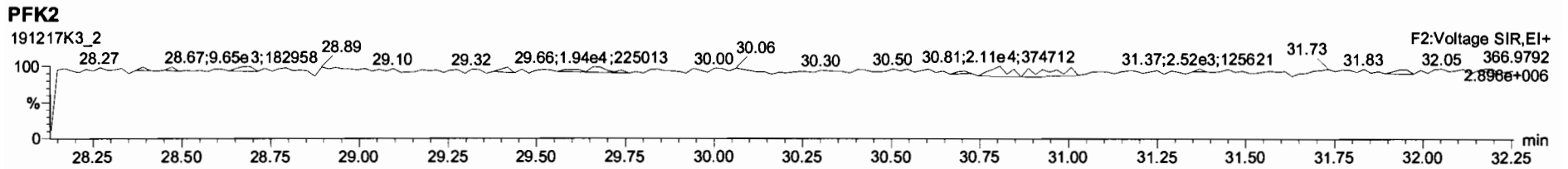
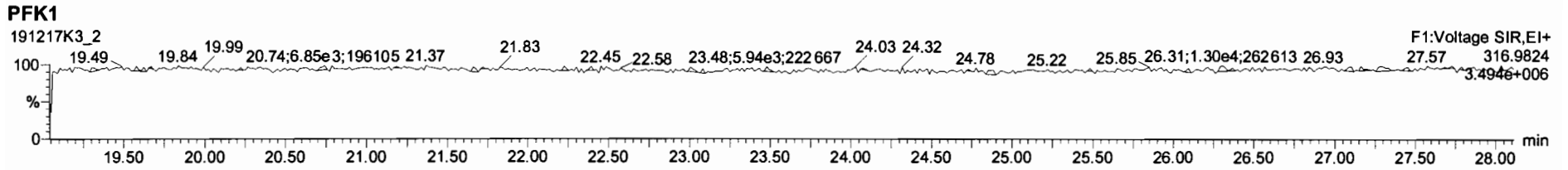


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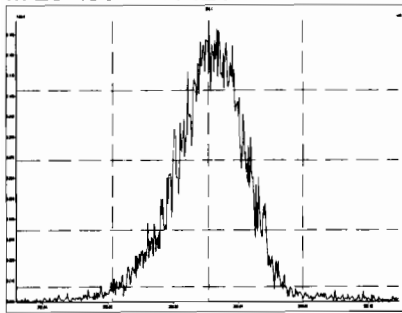
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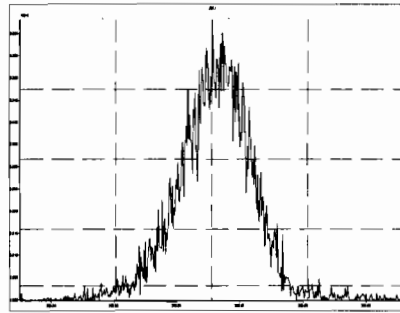
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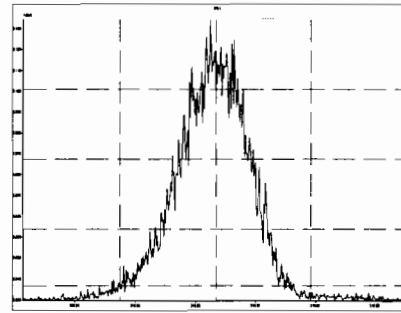
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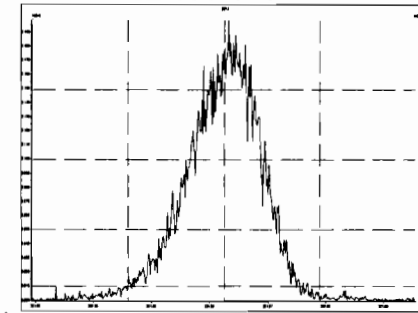
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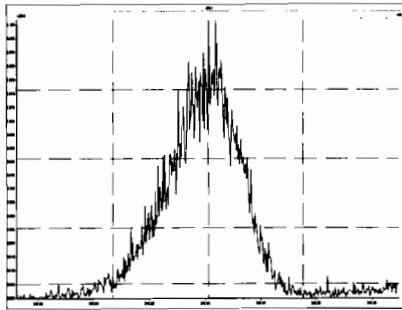
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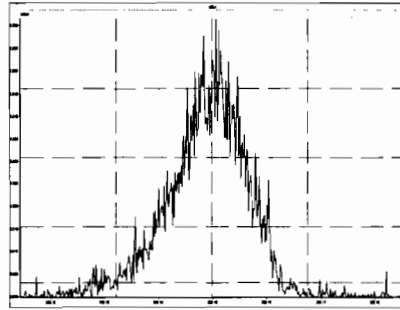
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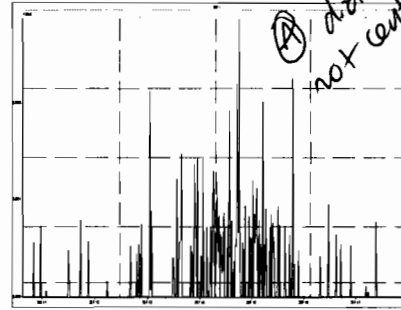
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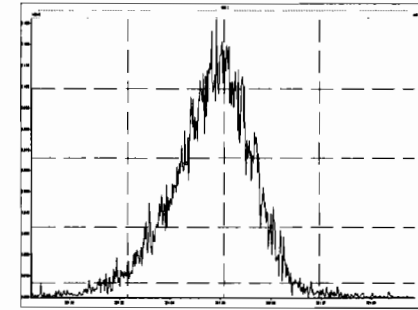
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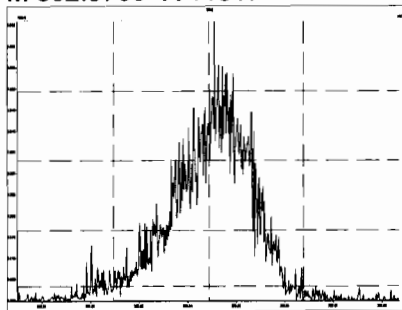
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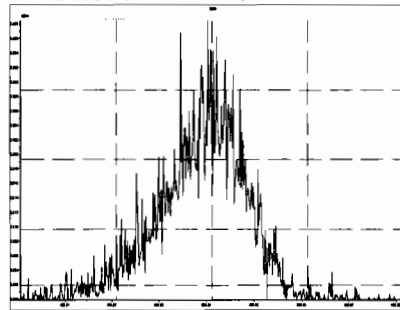
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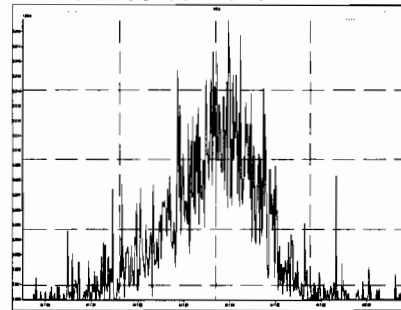
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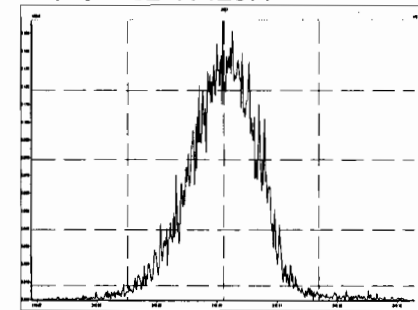
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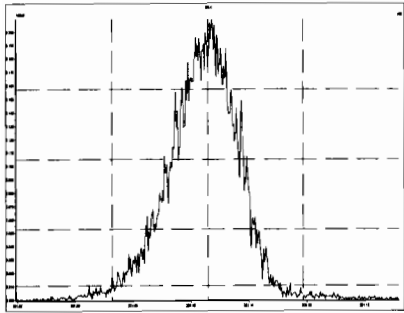
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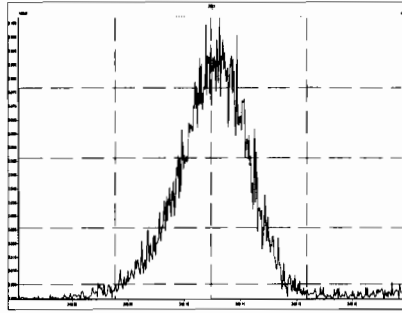
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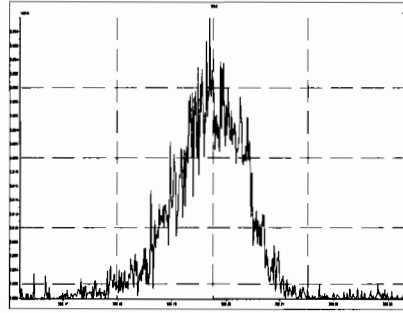
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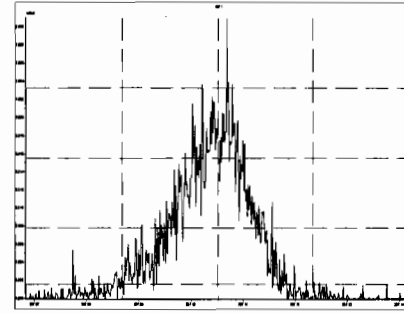
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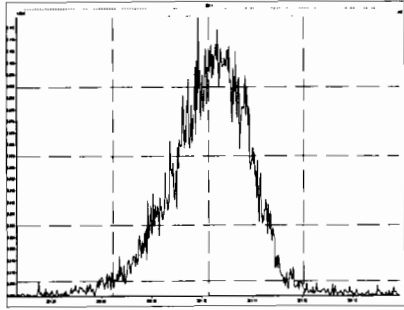
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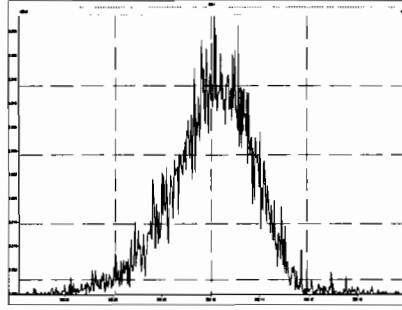
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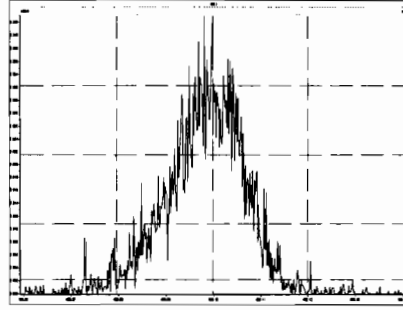
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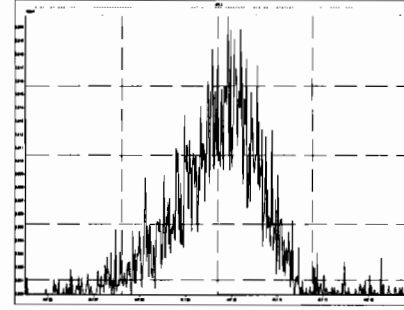
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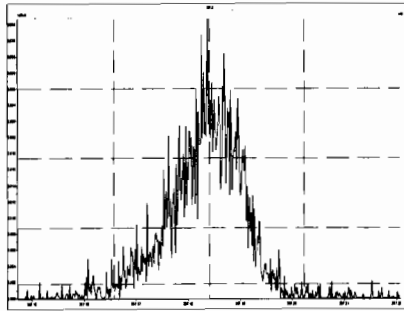
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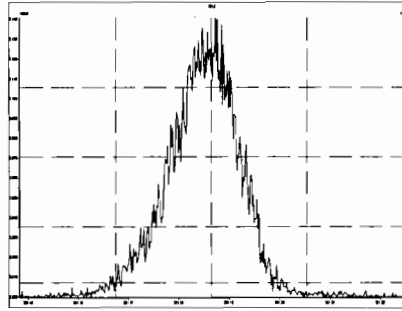
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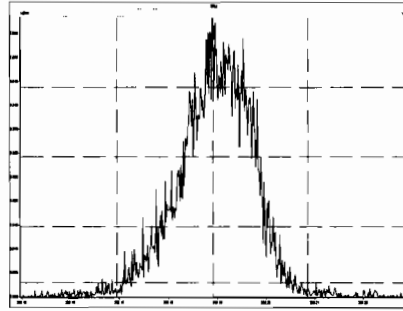
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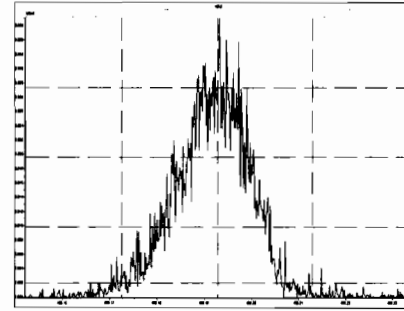
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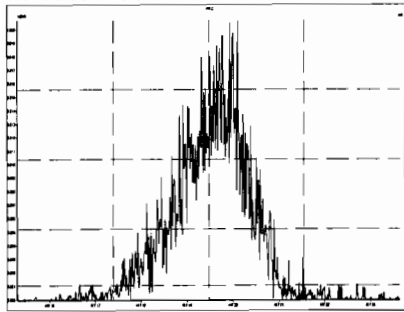


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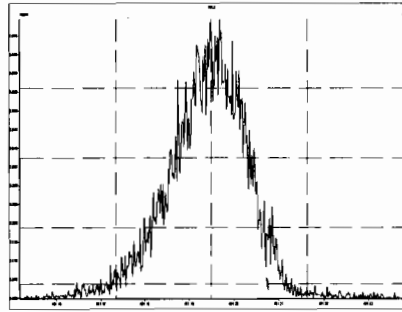


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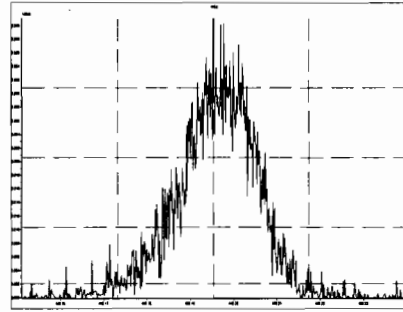
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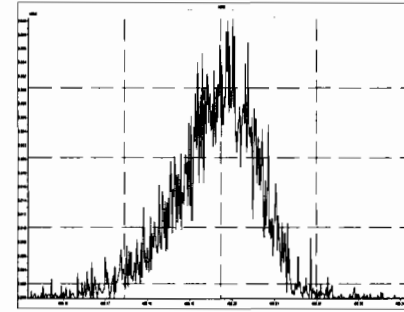
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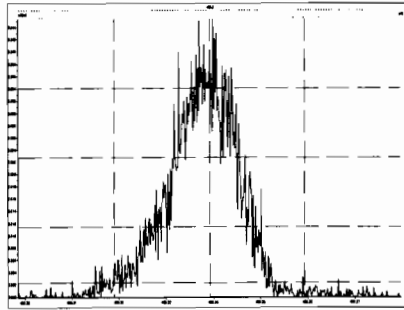
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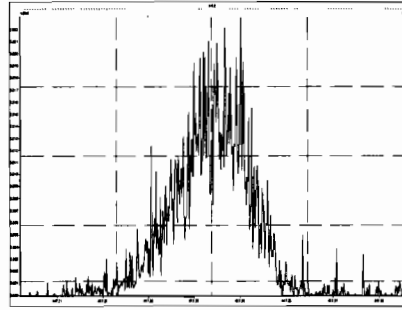
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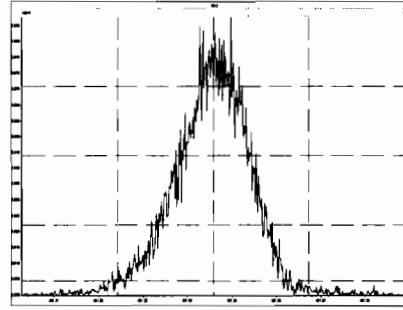
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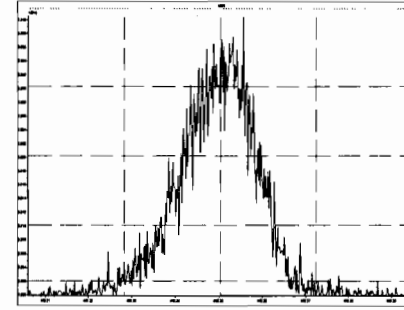
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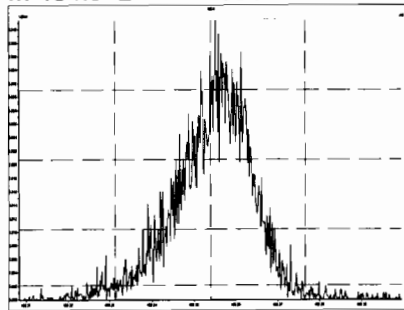
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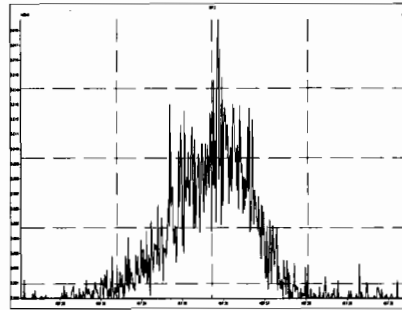
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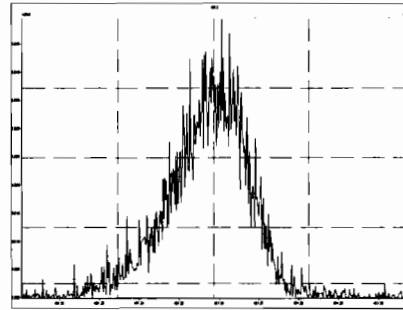
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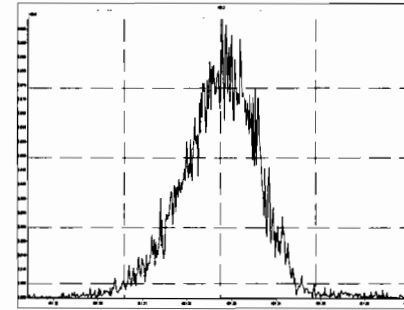
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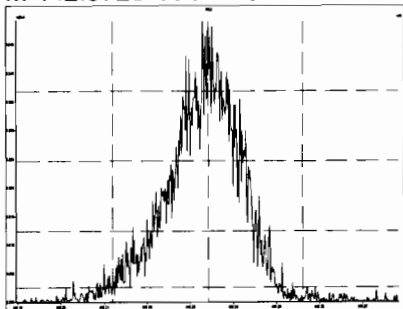


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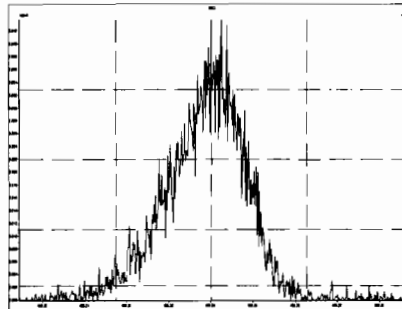


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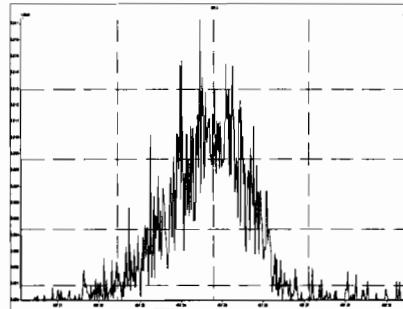
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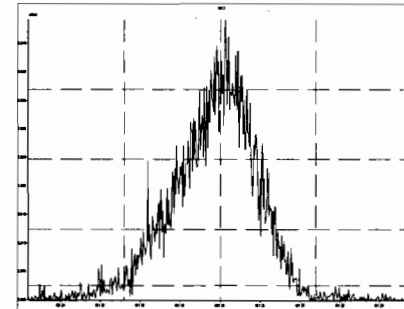
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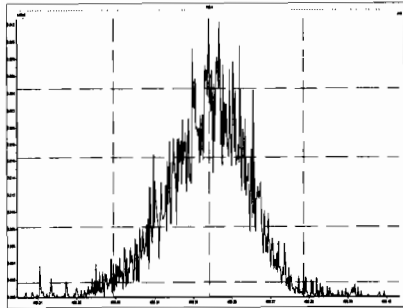
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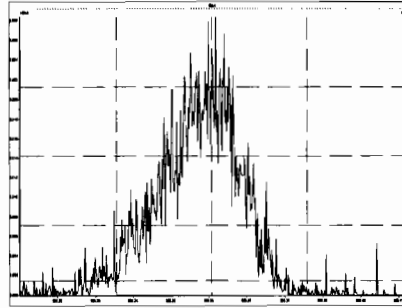
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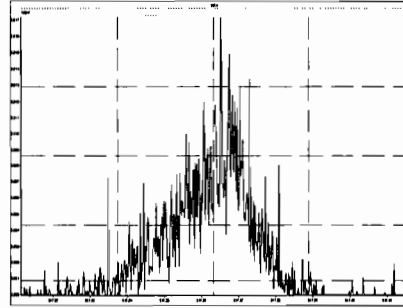
M 492.9696 R 12241



M 504.9696 R 11908



M 516.9697 R 14623



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Reg. Calibration ID:** ST200102D1-1

**Reviewed By:** CT 01/03/20

*Initials & Date*

**End Calibration ID:** ST200102D1-2

	<b>Reg.</b>	<b>End</b>
<b>Ion abundance within QC limits?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Concentrations within criteria?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>TCDD/TCDF Valleys &lt;25%</b>	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>
<b>First and last eluters present?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Retention Times within criteria?</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Verification Std. named correctly?</b> (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Forms signed and dated?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Correct ICAL referenced?</b>	<u>DB</u>	<u>DB</u>
<b><u>Run Log:</u></b>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
- Sample within 12 hour clock?	<input checked="" type="checkbox" value="Y"/>	<input type="checkbox" value="N"/>
- Bottle position verified?	<u>DB</u>	

	<b>Reg.</b>	<b>End</b>
<b>Mass resolution <math>\geq</math></b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614    1699    429    1613/1668/8280		
<b>Integrated peaks display correctly?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>GC Break &lt;20%</b>		<input type="checkbox" value="NA"/>
<b><u>8280 CS1 End Standard:</u></b>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox" value="NA"/>

**Comments:**

FORM 4A/4B  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory

CCAL ID: ST200102D1-1

Initial Calibration Date: 5-30-19

Instrument ID: VG-7

GC Column ID: DB-225

VER Data Filename: 200102D1 S#2 Analysis Date: 2-JAN-20 Time: 13:52:56

ANALYTES	M/Z'S	ION	QC	CONC. FOUND	CONC. RANGE	CONC. RANGE
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)		1613 (ng/mL)	8290 (ng/mL)
2,3,7,8-TCDF	M/M+2	0.72	0.65-0.89	8.5	8.4 - 12.0 (3) 8.6 - 11.6 (4)	8.0 - 12.0
13C-2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	100.6	71.0 - 140.0 (3) 76.0 - 131.0 (4)	70.0 - 130.0

(1) See Table 8, Method 1613, for m/z specifications.

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

(3) Contract-required concentration range as specified in Table 6a, Method 1613, under VER.

(4) Contract required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: DBDate: 1/2/20



Client ID: 1613 CS3 19C2204  
Lab ID: ST200102D1-1

Filename: 200102D1 S:2 Acq: 2-JAN-20 13:52:56  
GC Column ID: DB-225 ICal: 1613TCDFVG7-5-30-19 wt/vol: 1.000

ConCal: ST200102D1-1  
EndCAL: ST200102D1-2

Name	Resp	RA	RT	RRF	Conc	Rec
13C-1,2,3,4-TCDF	1.35e+07	0.79 y	15:36	1.00	100.0	-
13C-2,3,7,8-TCDF	1.38e+07	0.78 y	17:43	1.02	100.6	100.6
2,3,7,8-TCDF	1.11e+06	0.72 y	17:44	0.95	8.500	

Integrations  
by  
Analyst: DB

Date: 1/2/20

Reviewed  
by  
Analyst: CT

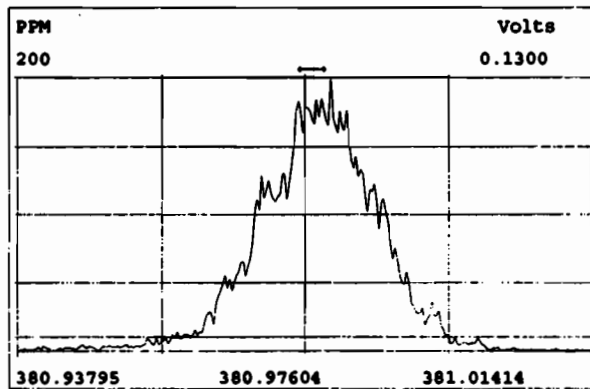
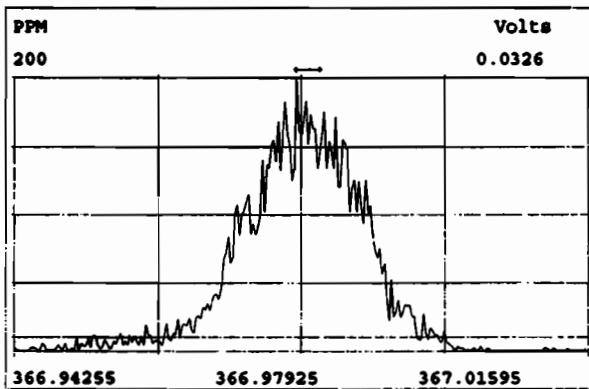
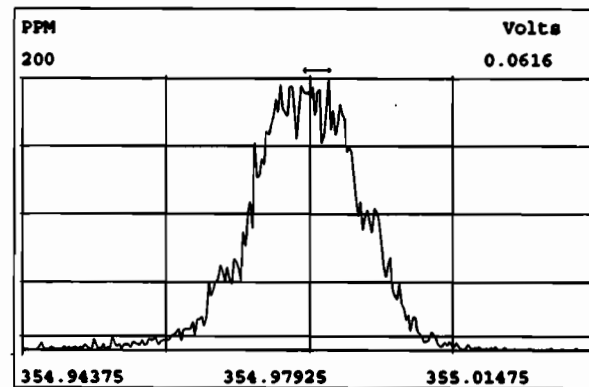
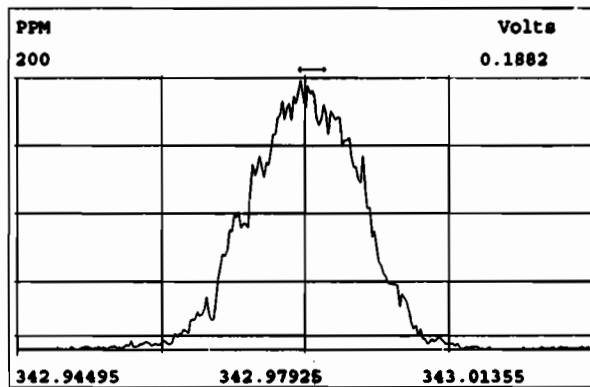
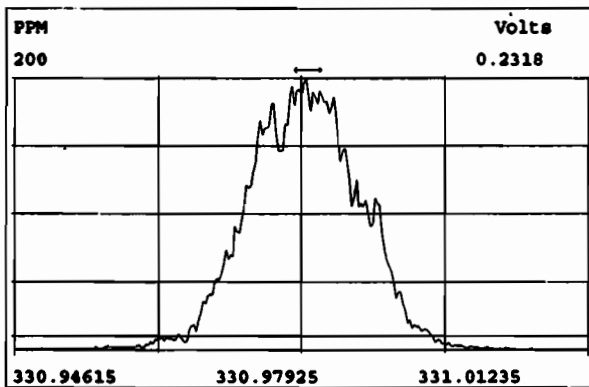
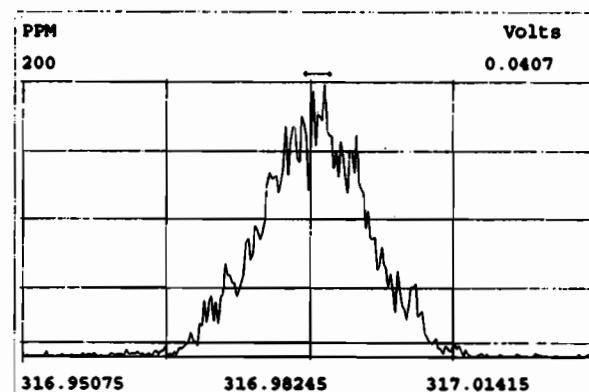
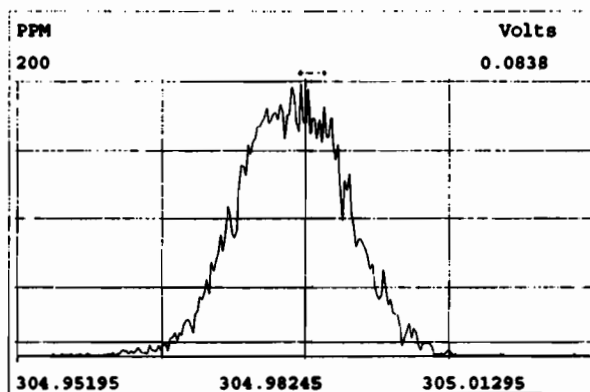
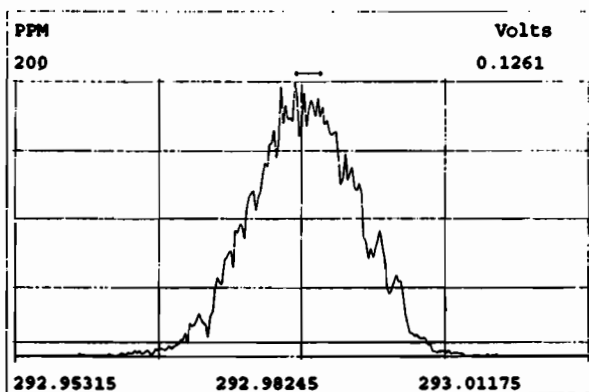
Date: 01/03/20

Vista Analytical Laboratory - Injection Log Run file: 200102D1 Instrument ID: VG-7 GC Column ID: DB-225

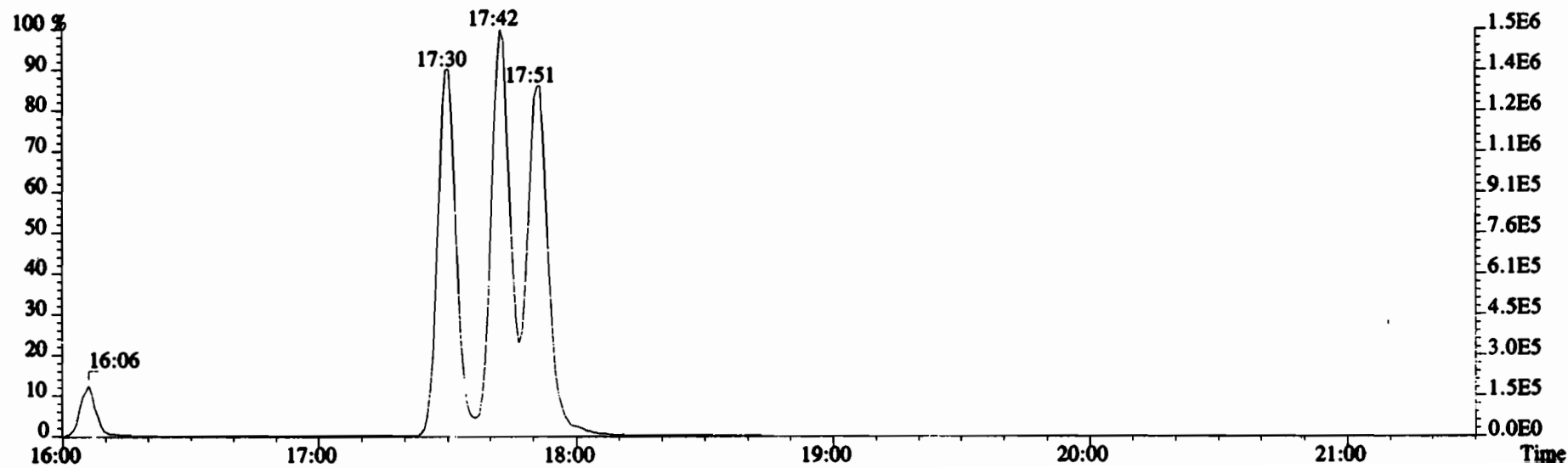
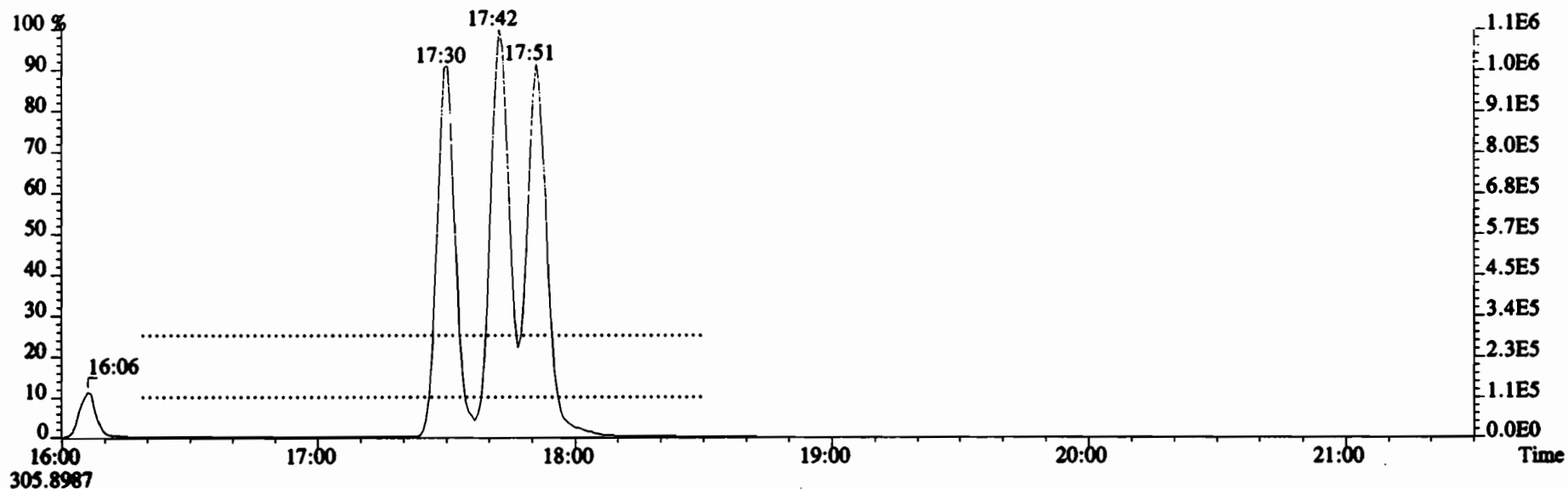
Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	Ecal
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200102D1	3	SOLVENT BLANK	DB	2-JAN-20	14:25:17	NA	NA
200102D1	4	1904006-03RE1	DB	2-JAN-20	14:57:38	ST200102D1-1	ST200102D1-2
200102D1	5	1904006-07RE1	DB	2-JAN-20	15:29:58	ST200102D1-1	ST200102D1-2
200102D1	6	1904006-09RE1	DB	2-JAN-20	16:02:14	ST200102D1-1	ST200102D1-2
200102D1	7	1904006-10RE1	DB	2-JAN-20	16:34:35	ST200102D1-1	ST200102D1-2
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200102D1	11	1904016-06RE1	DB	2-JAN-20	18:43:54	ST200102D1-1	NA
200102D1	12	1903655-01RE1	DB	2-JAN-20	19:16:13	ST200102D1-1	NA
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200102D1	15	1903461-11RE2	DB	2-JAN-20	20:53:11	ST200102D1-1	NA
200102D1	16	1903461-13RE3	DB	2-JAN-20	21:25:33	ST200102D1-1	NA
200102D1	17	1903655-06RE1	DB	2-JAN-20	21:57:55	ST200102D1-1	NA
200102D1	18	1903461-12RE2	DB	2-JAN-20	22:30:17	ST200102D1-1	NA
200102D1	19	SOLVENT BLANK	DB	2-JAN-20	23:02:38	NA	NA
200102D1	20	ST200102D1-2	DB	2-JAN-20	23:34:59	ST200102D1-1	ST200102D1-2

Peak Locate Examination: 2-JAN-2020:13:20 File:200102D1

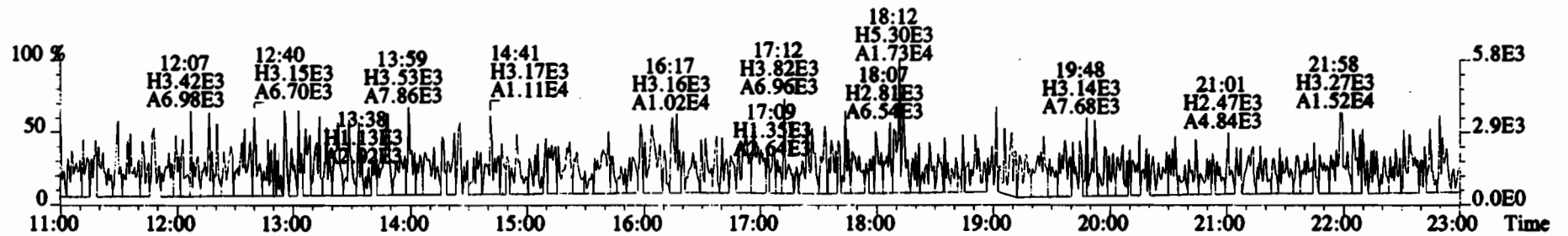
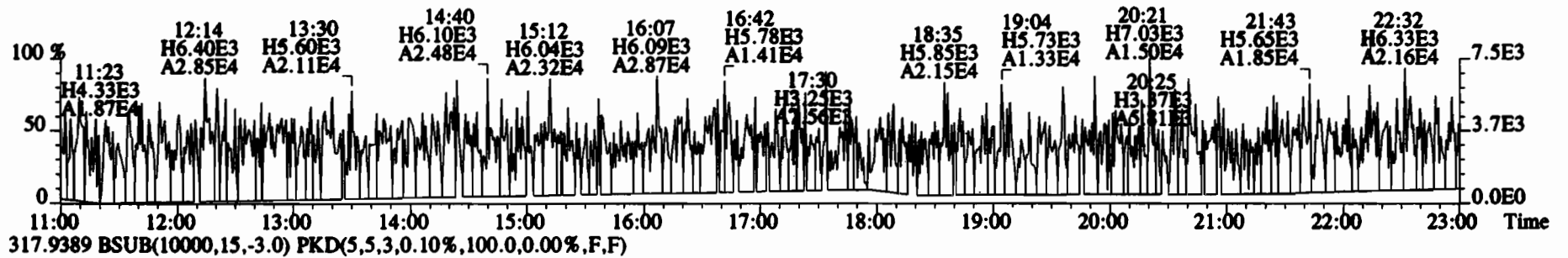
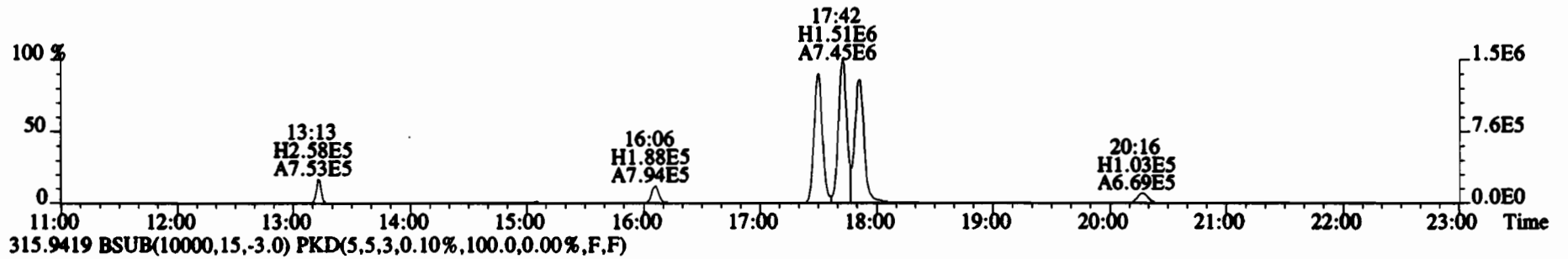
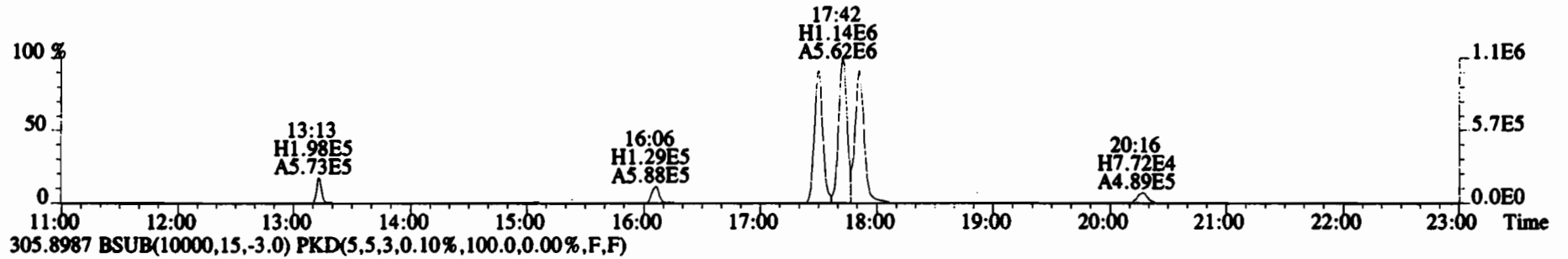
Experiment:TCDF\_DB225 Function:1 Reference:PFK



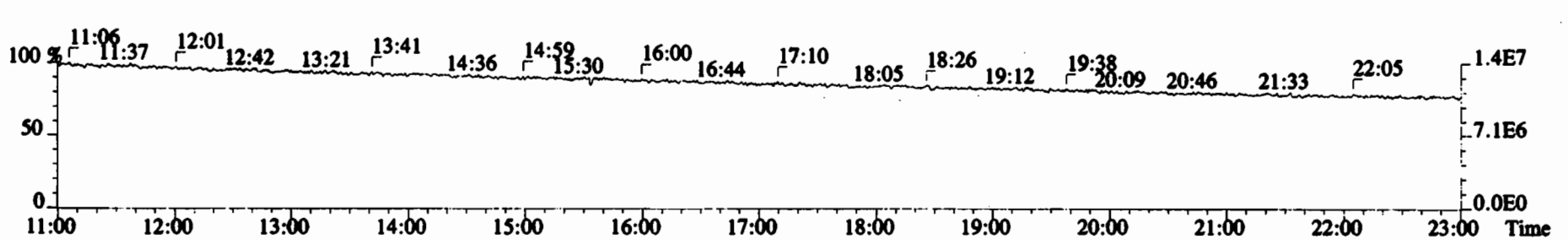
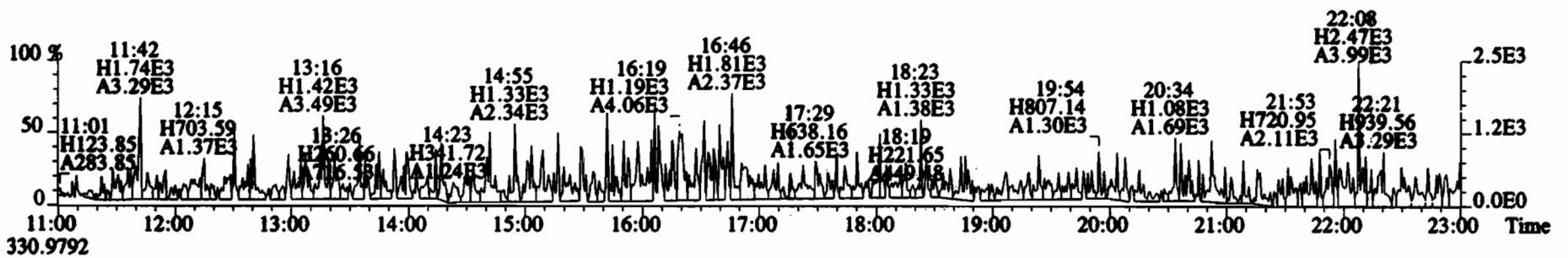
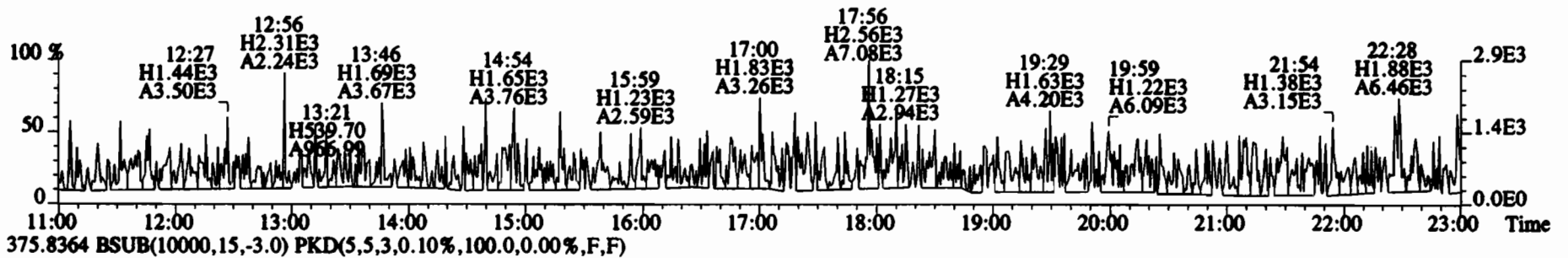
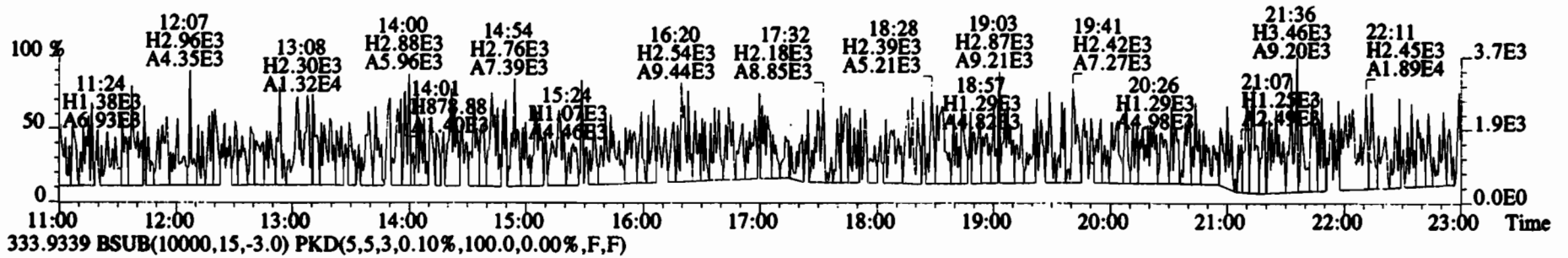
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303.9016



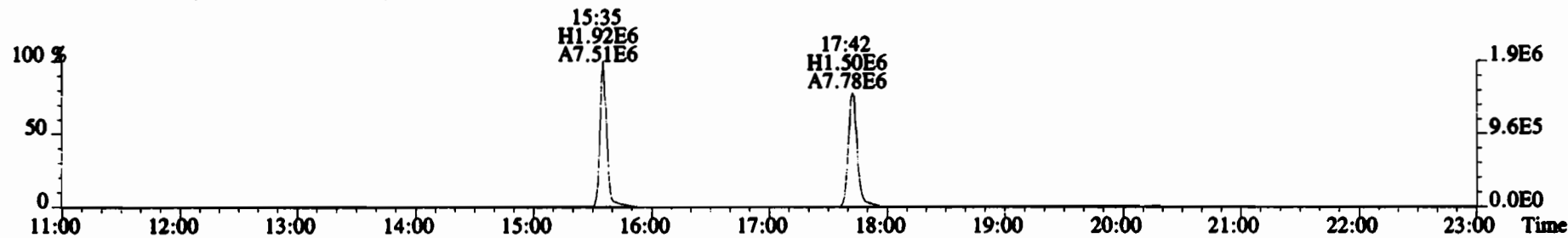
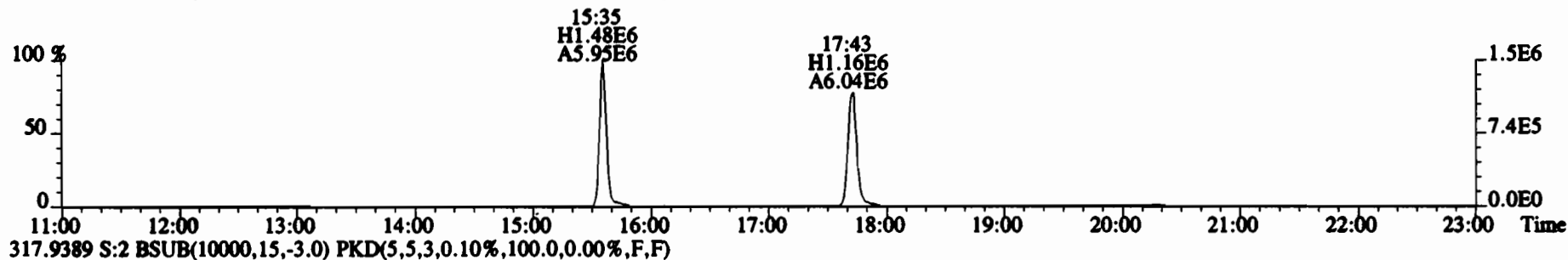
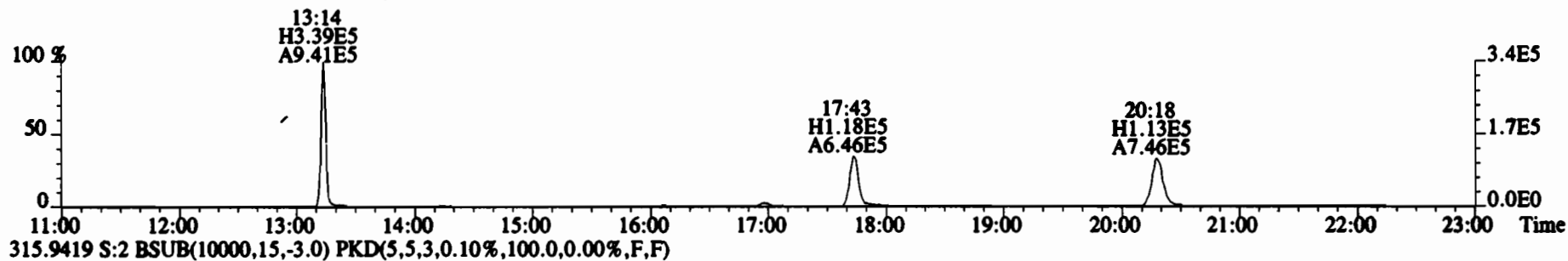
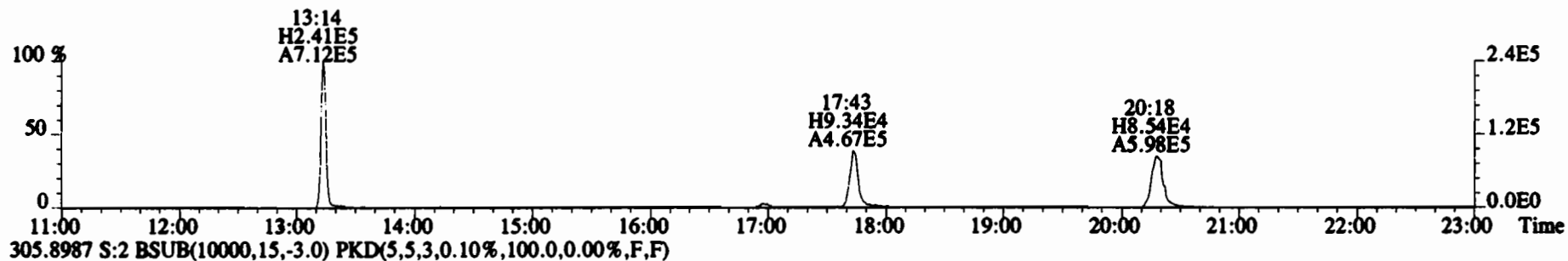
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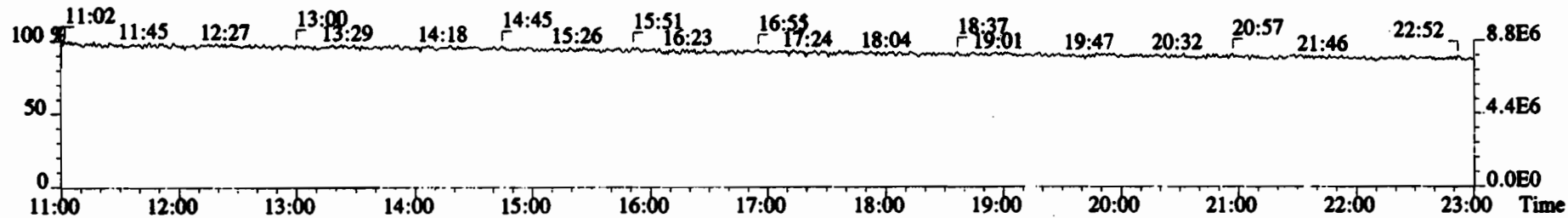
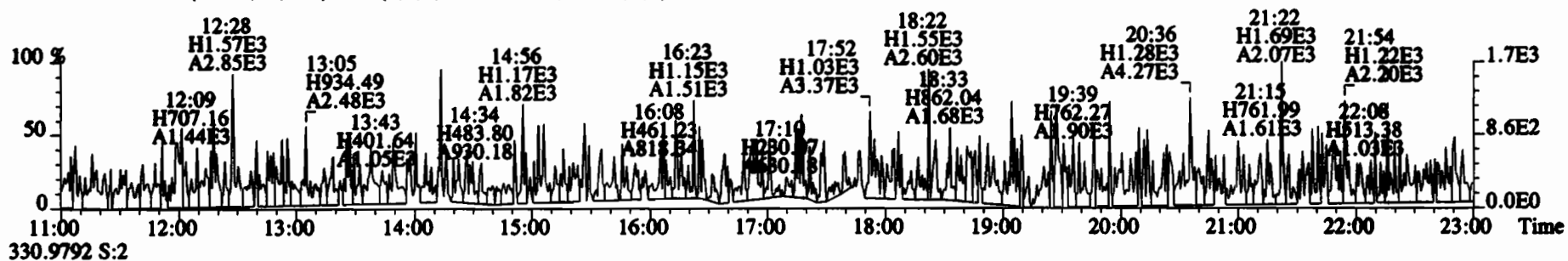
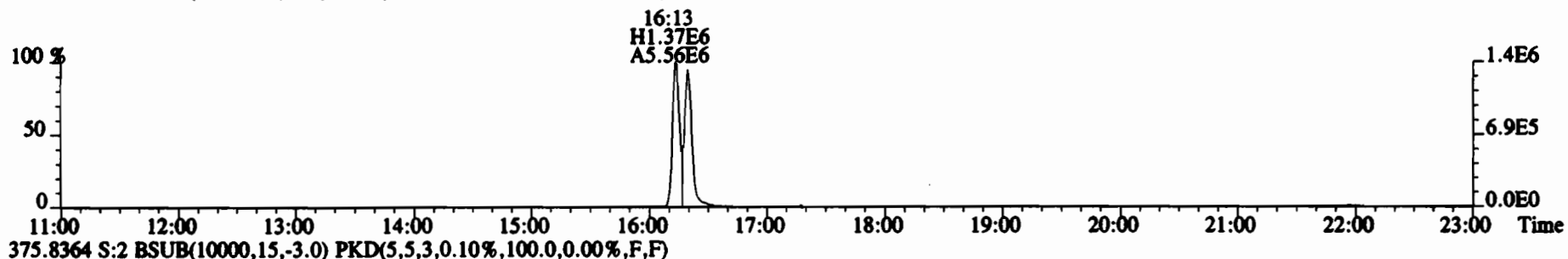
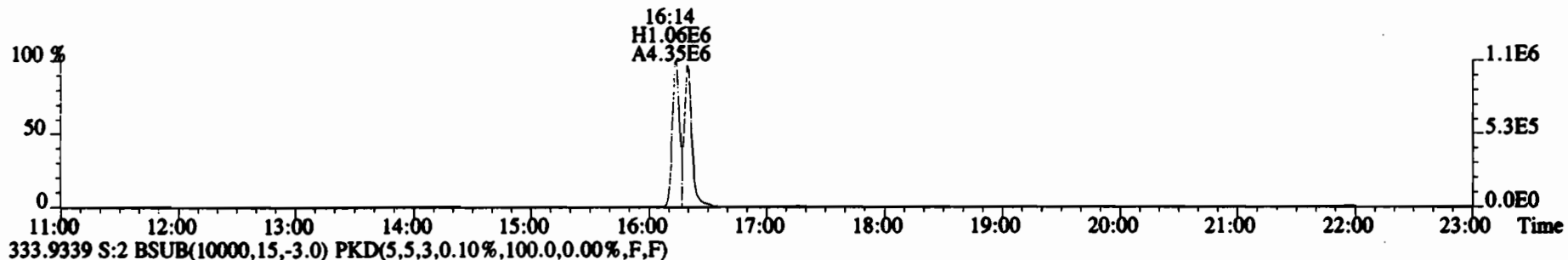
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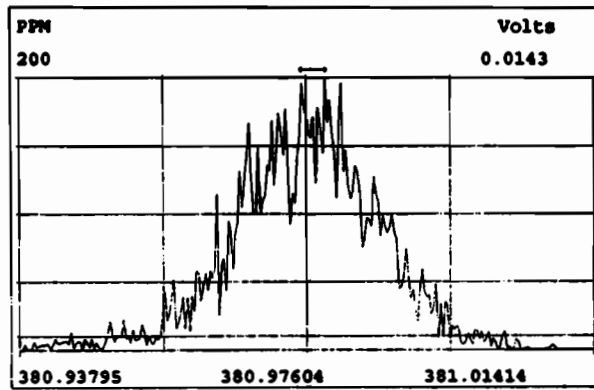
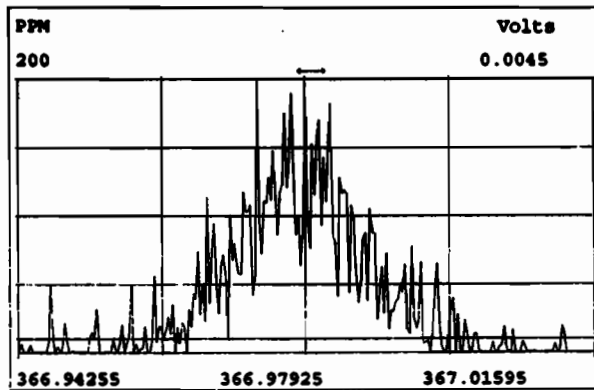
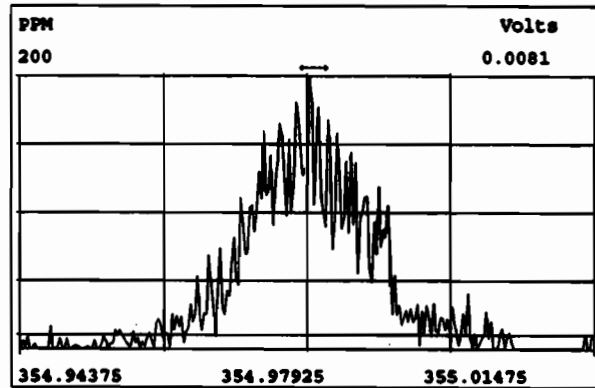
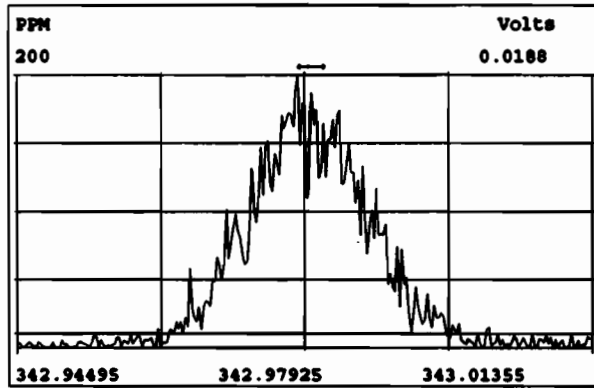
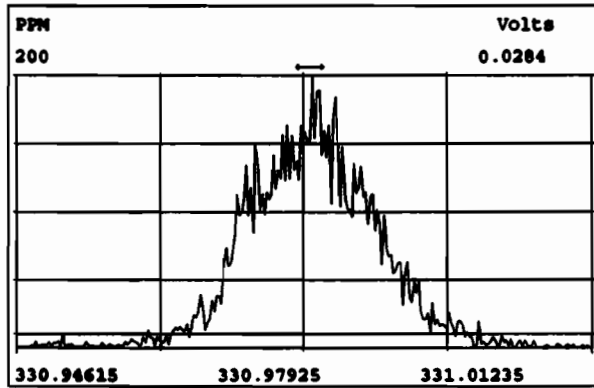
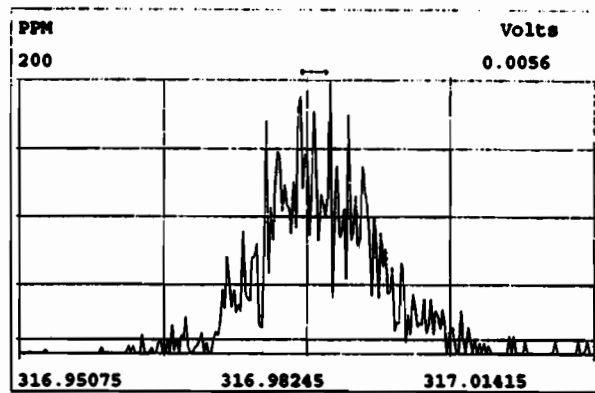
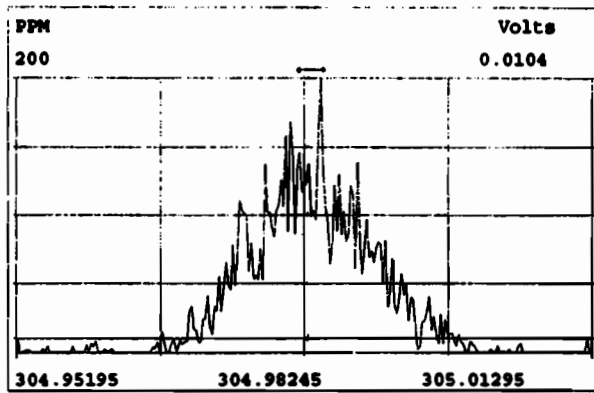
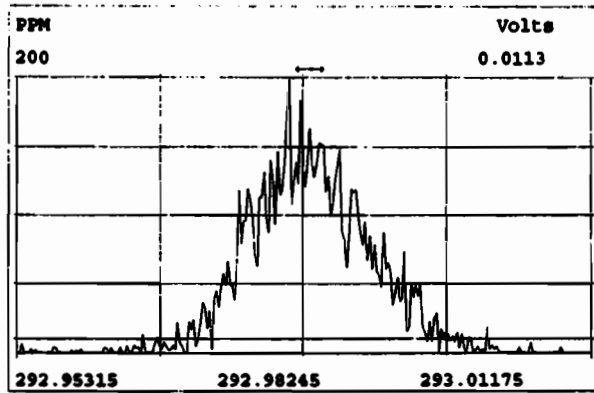
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Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST200102D1-1 1613 CS3 19C2204 Exp:TCDF\_DB225  
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:200102D1 #1-1682 Acq: 2-JAN-2020 13:52:56 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST200102D1-1 1613 CS3 19C2204 Exp:TCDF\_DB225  
 331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)







# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST200103D2-1

**Reviewed By:** CT 01/07/20  
*Initials & Date*

**End Calibration ID:** ST200103D2-2

**Ion abundance within QC limits?** Beg.  End

**Concentrations within criteria?** Beg.  End

**TCDD/TCDF Valleys <25%** Beg.  End

**First and last eluters present?** Beg.  End

**Retention Times within criteria?** Beg.  End

**Verification Std. named correctly?** Beg.  End   
 (ST-Year-Month-Day-VG ID)

**Forms signed and dated?** Beg.  End

**Correct ICAL referenced?** DB DB

**Run Log:**

**- Correct Instrument listed?** Beg.  End

**- Samples within 12 hour clock?** Y N

**- Bottle position verified?** DB

**Mass resolution  $\geq$**  Beg.  End

5k    6-8K    8K    10K  
 1614   1699   429   1613/1668/8280

**Intergrated peaks display correctly?** Beg.  End

**GC Break <20%** NA

**8280 CS1 End Standard:**

**- Ratios within limits, S/N <2.5:1, CS1 within 12 hours** NA

**Comments:**

FORM 4A  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

CCAL ID: ST200103D2-1

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: 2B-5MS

VER Data Filename: 200103D2 S#1 Analysis Date: 3-JAN-20 Time: 14:51:42

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC.	CONC.
	FORMING	ABUND.	LIMITS		FOUND	RANGE (3)
	RATIO (1)	RATIO	(2)			(ng/mL)
2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	y	11.8	7.8 - 12.9
1,2,3,7,8-PeCDD	M/M+2	0.63	0.54-0.72	y	53.5	8.2 - 12.3 (4) 39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	52.0	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.21	1.05-1.43	y	52.6	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.19	1.05-1.43	y	53.2	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	0.88-1.20	y	51.1	43.0 - 58.0
OCDD	M+2/M+4	0.92	0.76-1.02	y	107	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.81	0.65-0.89	y	9.38	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	55.0	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.63	1.32-1.78	y	50.8	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	47.5	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.18	1.05-1.43	y	47.5	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.20	1.05-1.43	y	49.1	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.23	1.05-1.43	y	48.0	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.00	0.88-1.20	y	47.1	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	y	46.4	43.0 - 58.0
OCDF	M+2/M+4	0.89	0.76-1.02	y	94.2	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

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

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

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: DB

Date: 1/3/20

FORM 4B  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-SMS

VER Data Filename: 200103D2 S#1 Analysis Date: 3-JAN-20 Time: 14:51:42

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.82	0.65-0.89	y	106	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.64	0.54-0.72	y	97.7	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	100	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	91.2	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	94.0	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	102	72.0 - 138.0
13C-OCDD	M/M+2	0.90	0.76-1.02	y	188	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.76	0.65-0.89	y	99.4	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.63	1.32-1.78	y	96.2	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	94.7	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	107	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	101	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	100	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.50	0.43-0.59	y	104	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.43	0.37-0.51	y	101	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.41	0.37-0.51	y	105	77.0 - 129.0
13C-OCDF	M+2/M+4	0.90	0.76-1.02	y	206	96.0 - 415.0
CLEANUP STANDARD (3)						
37Cl-2,3,7,8-TCDD					9.94	7.9 - 12.7

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified

(3) No ion abundance ratio; report concentration found.

Analyst: DB

Date: 1/3/20

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

CCAL ID: ST200103D2-1

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-SMS

VER Data Filename: 200103D2 S#1 Analysis Date: 3-JAN-20 Time: 14:51:42

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC.	CONC.
	FORMING	ABUND.	LIMITS		FOUND	RANGE
	RATIO	RATIO				(ng/mL)
2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	y	11.8	8.00 - 12.0
1,2,3,7,8-PeCDD	M/M+2	0.63	0.54-0.72	y	53.5	40.0 - 60.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	52.0	40.0 - 60.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.21	1.05-1.43	y	52.6	40.0 - 60.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.19	1.05-1.43	y	53.2	40.0 - 60.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	0.88-1.20	y	51.1	40.0 - 60.0
OCDD	M+2/M+4	0.92	0.76-1.02	y	107	80.0 - 120
2,3,7,8-TCDF	M/M+2	0.81	0.65-0.89	y	9.38	8.00 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	55.0	40.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.63	1.32-1.78	y	50.8	40.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	47.5	40.0 - 60.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.18	1.05-1.43	y	47.5	40.0 - 60.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.20	1.05-1.43	y	49.1	40.0 - 60.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.23	1.05-1.43	y	48.0	40.0 - 60.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.00	0.88-1.20	y	47.1	40.0 - 60.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	y	46.4	40.0 - 60.0
OCDF	M+2/M+4	0.89	0.76-1.02	y	94.2	80.0 - 120

Analyst: DB

Date: 1/3/20

## EPA METHOD 8290

## PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-SMS

VER Data Filename: 200103D2 S#1 Analysis Date: 3-JAN-20 Time: 14:51:42

LABELED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.82	0.65-0.89	y	106	70.0 - 130
13C-1,2,3,7,8-PeCDD	M/M+2	0.64	0.54-0.72	y	97.7	70.0 - 130
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	100	70.0 - 130
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	91.2	70.0 - 130
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	94.0	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	102	70.0 - 130
13C-OCDD	M+2/M+4	0.90	0.76-1.02	y	188	140 - 260
13C-2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	99.4	70.0 - 130
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.63	1.32-1.78	y	96.2	70.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	94.7	70.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	107	70.0 - 130
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	101	70.0 - 130
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	100	70.0 - 130
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.50	0.43-0.59	y	104	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.43	0.37-0.51	y	101	70.0 - 130
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.41	0.37-0.51	y	105	70.0 - 130
13C-OCDF	M+2/M+4	0.90	0.76-1.02	y	206	140 - 260
CLEANUP STANDARD						
37Cl-2,3,7,8-TCDD					9.94	7.00 - 13.0

Analyst: DBDate: 1/3/20

FORM 5  
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-7 Initial Calibration Date: 10-9-19

RT Window Data Filename: 200103D2 S#1 Analysis Date: 3-JAN-20 Time: 14:51:42

ZB-5MS IS Data Filename: 200103D2 S#1 Analysis Date: 3-JAN-20 Time: 14:51:42

DB\_225 IS Data Filename: Analysis Date: Time:

ZB-5MS RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	22:33	1,3,6,8-TCDF (F)	20:24
1,2,8,9-TCDD (L)	26:53	1,2,8,9-TCDF (L)	27:02
1,2,4,7,9-PeCDD (F)	28:31	1,3,4,6,8-PeCDF (F)	26:59
1,2,3,8,9-PeCDD (L)	30:56	1,2,3,8,9-PeCDF (L)	31:10
1,2,4,6,7,9-HxCDD (F)	32:21	1,2,3,4,6,8-HxCDF (F)	31:50
1,2,3,7,8,9-HxCDD (L)	34:17	1,2,3,7,8,9-HxCDF (L)	34:40
1,2,3,4,6,7,9-HpCDD (F)	36:54	1,2,3,4,6,7,8-HpCDF (F)	36:30
1,2,3,4,6,7,8-HpCDD (L)	37:46	1,2,3,4,7,8,9-HpCDF (L)	38:18

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT  
BETWEEN  
COMPARED PEAKS (1)

<25%

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: DB

Date: 1/3/20

FORM 6A  
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 200103D2 S#1 Analysis Date: 3-JAN-20 Time: 14:51:42

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.001	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002

LABELED COMPOUNDS

13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.023	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.202	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.991	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.156	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.191	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.023	0.989-1.052

Analyst: DB

Date: 1/3/20



FORM 6B  
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7 GC Column ID: ZB-SMS

VER Data Filename: 200103D2 S#1 Analysis Date: 3-JAN-20 Time: 14:51:42

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.000	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.001	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.000	0.999-1.001
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.000	0.998-1.004
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.001	0.999-1.001
OCDD	13C-OCDD	1.000	0.999-1.001
OCDF	13C-OCDF	1.000	0.999-1.001

LABELED COMPOUNDS

13C-1,2,3,4,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.988	0.975-1.001
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.992	0.979-1.005
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.009	1.001-1.020
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.038	1.002-1.072
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.014	1.002-1.026
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.018	1.007-1.029
13C-1,2,3,7,8,9-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.027	1.014-1.038
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.093	1.069-1.111
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.147	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.131	1.117-1.141
13C-OCDD	13C-1,2,3,4,6,9-HxCDF	1.228	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.235	1.091-1.371

Analyst: DB

Date: 1/3/20

Client ID: 1613 CS3 19C2204  
Lab ID: ST200103D2-1

Filename: 200103D2 S:1 Acq: 3-JAN-20 14:51:42  
GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19 wt/vol: 1.000

ConCal: ST200103D2-1  
EndCAL: ST200103D2-2

	Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL
	2,3,7,8-TCDD	1.66e+06	0.77 y	0.91	26:01	11.829		* 2.5		*
	1,2,3,7,8-PeCDD	5.57e+06	0.63 y	0.90	30:35	53.508		* 2.5		*
	1,2,3,4,7,8-HxCDD	5.67e+06	1.25 y	1.10	33:53	51.983		* 2.5		*
	1,2,3,6,7,8-HxCDD	5.95e+06	1.21 y	0.94	33:60	52.647		* 2.5		*
	1,2,3,7,8,9-HxCDD	5.98e+06	1.19 y	0.96	34:17	53.209		* 2.5		*
	1,2,3,4,6,7,8-HpCDD	5.13e+06	1.02 y	0.98	37:46	51.077		* 2.5		*
	OCDD	8.58e+06	0.92 y	0.96	41:02	106.65		* 2.5		*
	2,3,7,8-TCDF	2.11e+06	0.81 y	0.95	25:13	9.3820		* 2.5		*
	1,2,3,7,8-PeCDF	1.00e+07	1.60 y	0.96	29:24	54.988		* 2.5		*
	2,3,4,7,8-PeCDF	9.52e+06	1.63 y	1.01	30:17	50.761		* 2.5		*
	1,2,3,4,7,8-HxCDF	7.64e+06	1.23 y	1.18	32:60	47.549		* 2.5		*
	1,2,3,6,7,8-HxCDF	8.14e+06	1.18 y	1.07	33:07	47.464		* 2.5		*
	2,3,4,6,7,8-HxCDF	8.06e+06	1.20 y	1.11	33:43	49.126		* 2.5		*
	1,2,3,7,8,9-HxCDF	6.75e+06	1.23 y	1.06	34:40	48.005		* 2.5		*
	1,2,3,4,6,7,8-HpCDF	6.28e+06	1.00 y	1.13	36:30	47.091		* 2.5		*
	1,2,3,4,7,8,9-HpCDF	5.57e+06	1.02 y	1.28	38:18	46.446		* 2.5		*
	OCDF	9.78e+06	0.89 y	0.95	41:15	94.243		* 2.5		*
IS	13C-2,3,7,8-TCDD	1.55e+07	0.82 y	1.10	25:60	105.73				
IS	13C-1,2,3,7,8-PeCDD	1.15e+07	0.64 y	0.88	30:34	97.736				
IS	13C-1,2,3,4,7,8-HxCDD	9.90e+06	1.29 y	0.64	33:52	100.07				
IS	13C-1,2,3,6,7,8-HxCDD	1.20e+07	1.28 y	0.86	33:59	91.240				
IS	13C-1,2,3,7,8,9-HxCDD	1.17e+07	1.24 y	0.81	34:16	94.017				
IS	13C-1,2,3,4,6,7,8-HpCDD	1.03e+07	1.07 y	0.65	37:45	101.79				
IS	13C-OCDD	1.68e+07	0.90 y	0.58	41:01	187.86				
IS	13C-2,3,7,8-TCDF	2.37e+07	0.76 y	1.03	25:12	99.390				
IS	13C-1,2,3,7,8-PeCDF	1.89e+07	1.63 y	0.85	29:22	96.211				
IS	13C-2,3,4,7,8-PeCDF	1.85e+07	1.58 y	0.85	30:17	94.679				
IS	13C-1,2,3,4,7,8-HxCDF	1.37e+07	0.50 y	0.83	32:59	106.51				
IS	13C-1,2,3,6,7,8-HxCDF	1.60e+07	0.50 y	1.03	33:07	100.60				
IS	13C-2,3,4,6,7,8-HxCDF	1.47e+07	0.50 y	0.95	33:42	100.29				
IS	13C-1,2,3,7,8,9-HxCDF	1.33e+07	0.50 y	0.83	34:39	103.87				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.18e+07	0.43 y	0.76	36:29	101.27				
IS	13C-1,2,3,4,7,8,9-HpCDF	9.37e+06	0.41 y	0.58	38:17	104.58				
IS	13C-OCDF	2.19e+07	0.90 y	0.69	41:14	206.41				
C/Up	37C1-2,3,7,8-TCDD	1.59e+06		1.20	26:01	9.9392				
RS/RT	13C-1,2,3,4-TCDD	1.34e+07	0.84 y	1.00	25:25	100.00				
RS	13C-1,2,3,4-TCDF	2.30e+07	0.81 y	1.00	23:58	100.00				
RS/RT	13C-1,2,3,4,6,9-HxCDF	1.54e+07	0.51 y	1.00	33:23	100.00				

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	82.0	82.4		*	*
Total Penta-Dioxins	210	210		*	*
Total Hexa-Dioxins	235	236		*	*
Total Hepta-Dioxins	118	119		*	*
Total Tetra-Furans	37.4	37.9		*	*
Total Penta-Furans	231.24	232.21		*	*
Total Hexa-Furans	256	257		*	*
Total Hepta-Furans	94.3	95.5		*	*

Rec Qual

106  
97.7  
100  
91.2  
94.0  
102  
93.9  
99.4  
96.2  
94.7  
107  
101  
100  
104  
101  
105  
103

99.4

Integrations  
by  
Analyst: DB

Reviewed  
by  
Analyst: \_\_\_\_\_

Date: 1/3/20

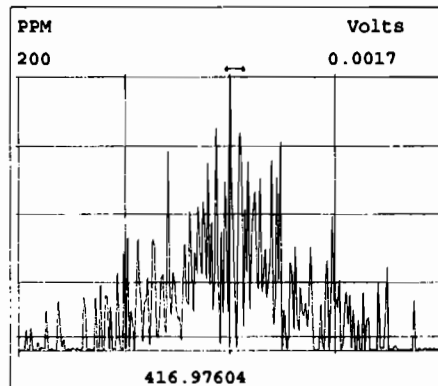
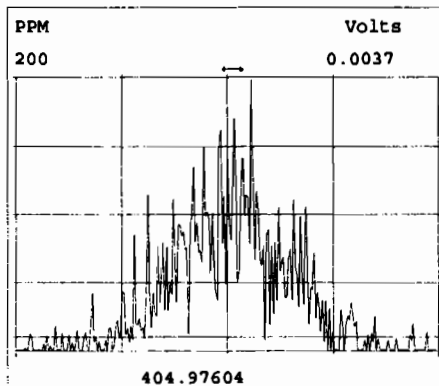
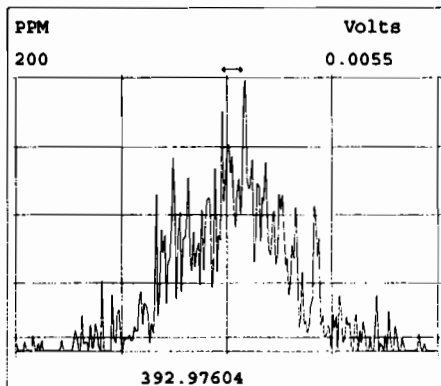
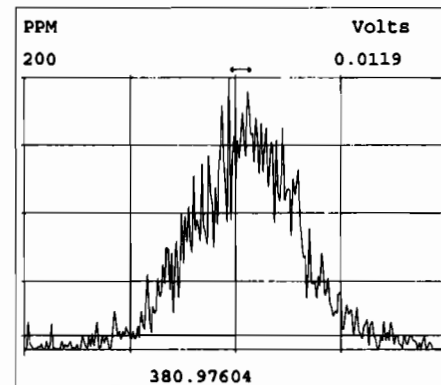
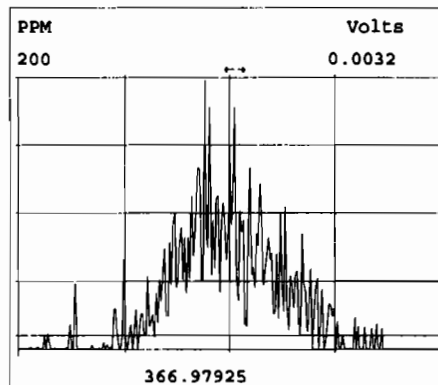
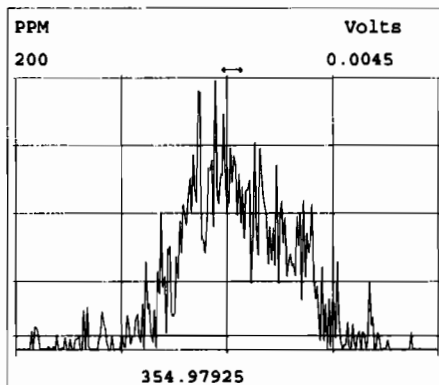
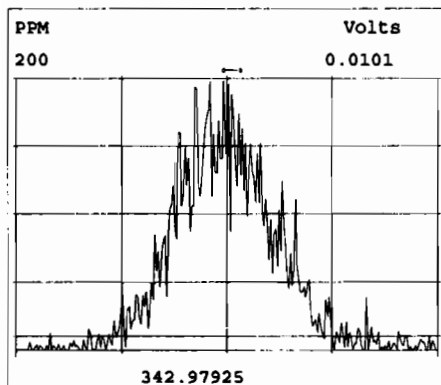
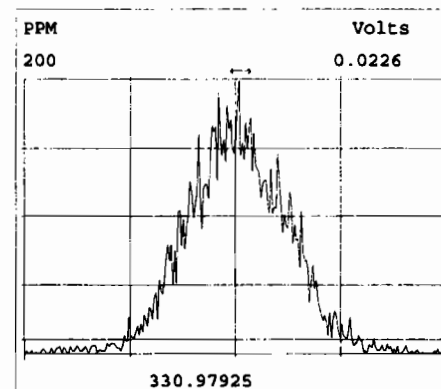
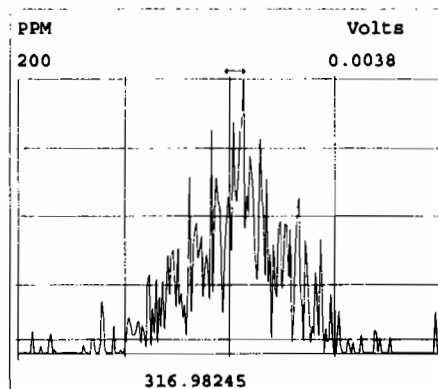
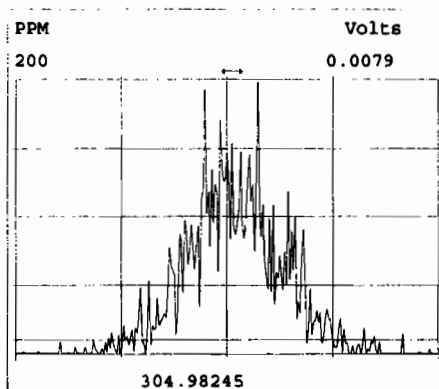
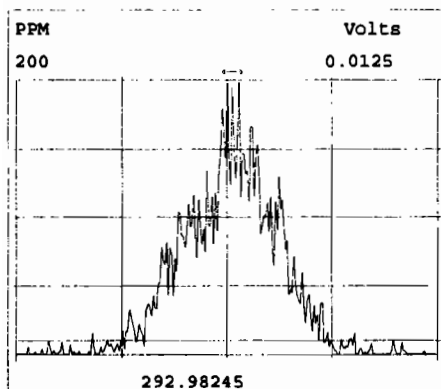
Date: \_\_\_\_\_

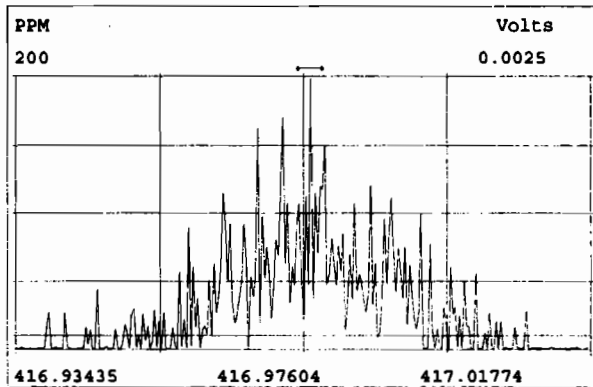
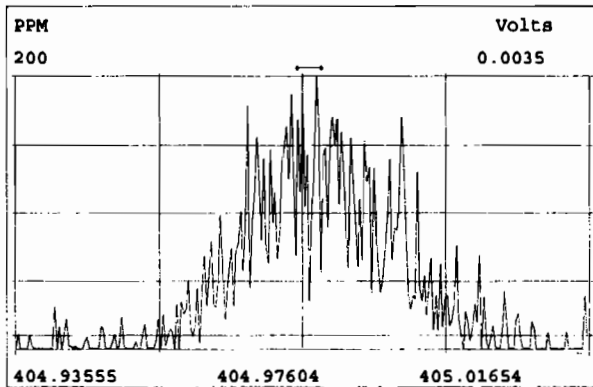
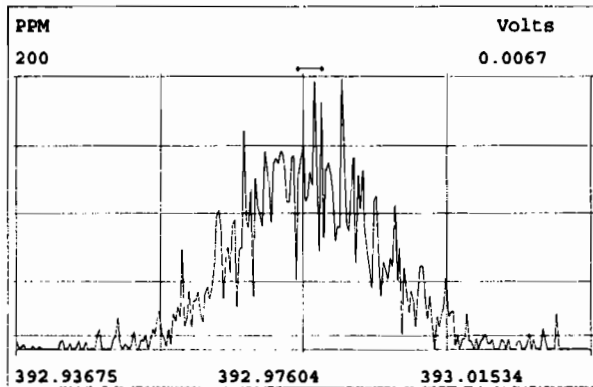
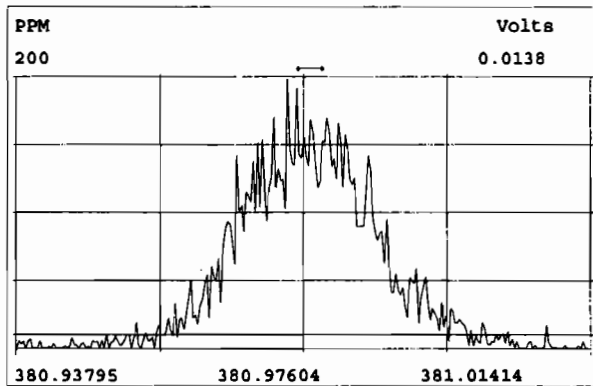
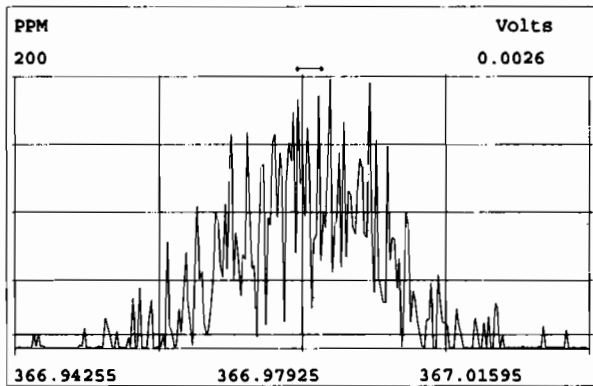
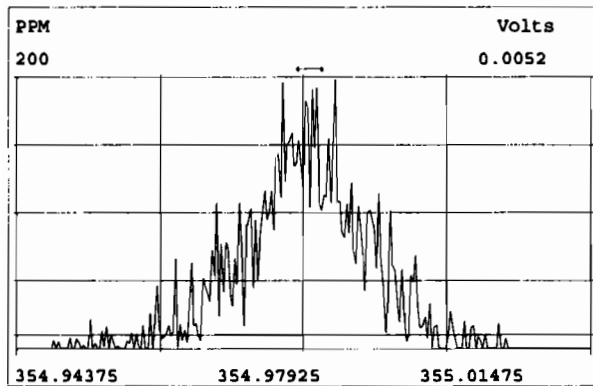
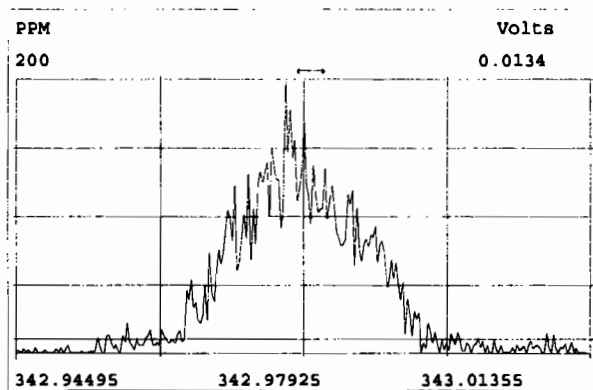
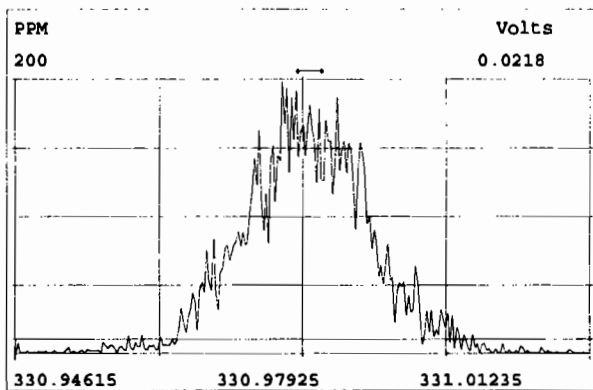
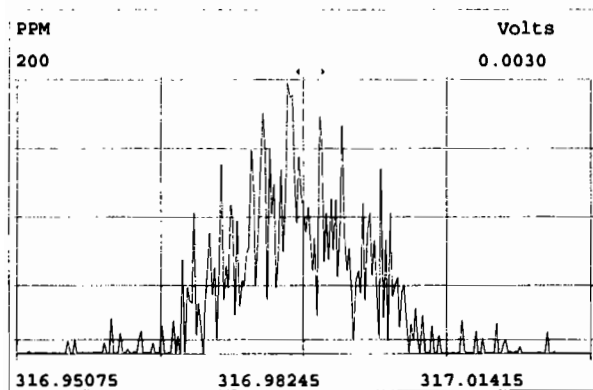
Vista Analytical Laboratory - Injection Log Run file: 200103D2 Instrument ID: VG-7 GC Column ID: ZB-5MS

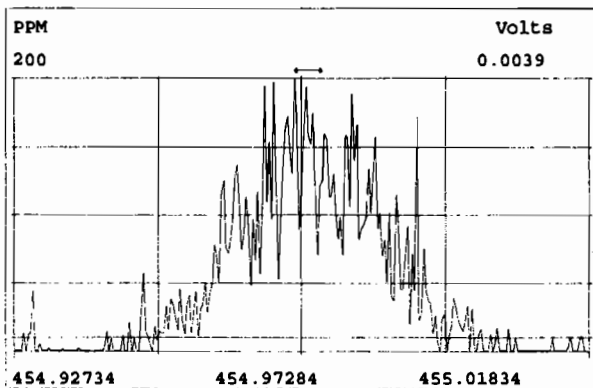
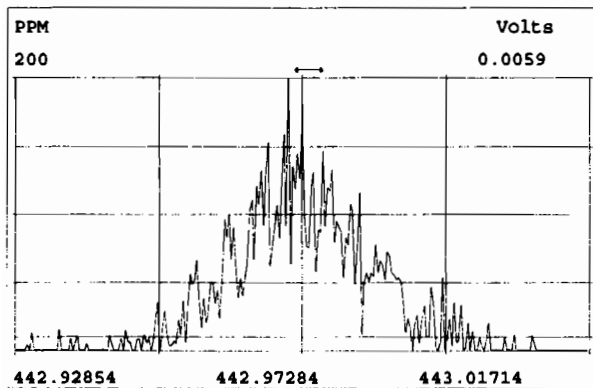
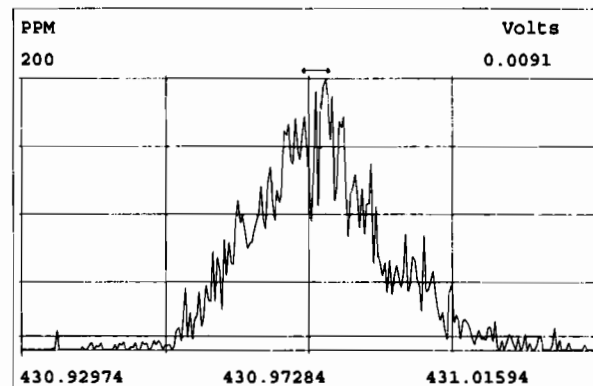
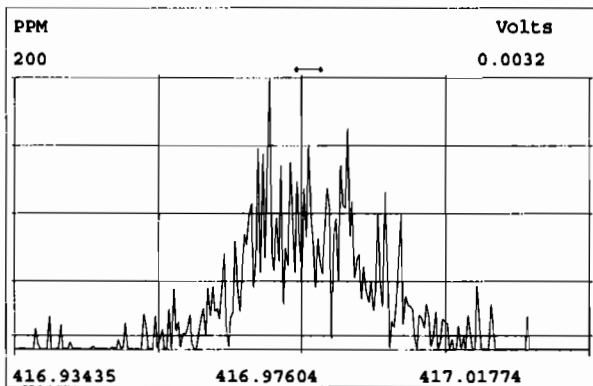
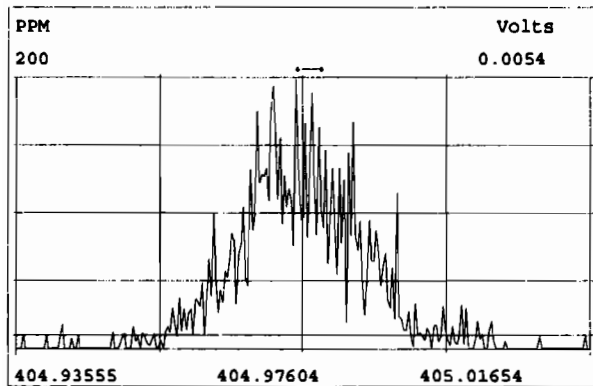
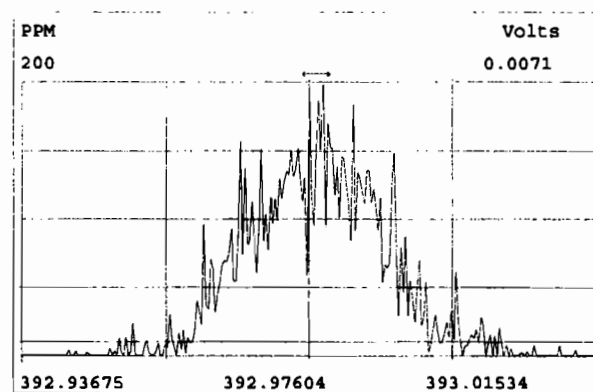
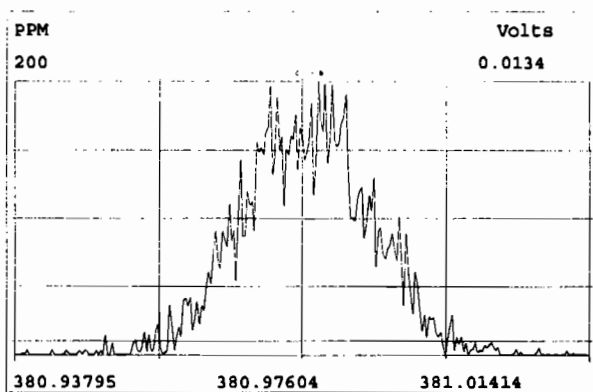
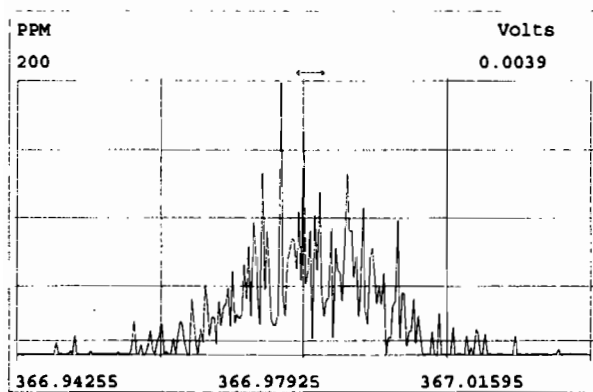
Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
200103D2	1	ST200103D2-1	DB	3-JAN-20	14:51:42	ST200103D2-1	ST200103D2-2
200103D2	2	B9L0055-BS1	DB	3-JAN-20	15:39:42	ST200103D2-1	NA
200103D2	3	B9L0221-BS1	DB	3-JAN-20	16:27:27	ST200103D2-1	NA
200103D2	4	SOLVENT BLANK	DB	3-JAN-20	17:15:23	NA	NA
200103D2	5	B9L0055-BLK1	DB	3-JAN-20	18:03:08	ST200103D2-1	NA
200103D2	6	B9L0221-BLK1	DB	3-JAN-20	18:50:54	ST200103D2-1	NA
200103D2	7	1903995-08	DB	3-JAN-20	19:38:39	ST200103D2-1	ST200103D2-2
200103D2	8	1903995-09	DB	3-JAN-20	20:26:24	ST200103D2-1	ST200103D2-2
200103D2	9	1903995-10	DB	3-JAN-20	21:14:09	ST200103D2-1	ST200103D2-2
200103D2	10	1903995-11	DB	3-JAN-20	22:01:57	ST200103D2-1	ST200103D2-2
200103D2	11	1904049-01	DB	3-JAN-20	22:49:52	ST200103D2-1	NA
200103D2	12	1904016-06@3X	DB	3-JAN-20	23:37:36	ST200103D2-1	NA
200103D2	13	1903655-06@10X	DB	4-JAN-20	00:25:25	ST200103D2-1	NA
200103D2	14	1904271-01	DB	4-JAN-20	01:12:33	ST200103D2-1	NA
200103D2	15	SOLVENT BLANK	DB	4-JAN-20	02:00:18	NA	NA
200103D2	16	ST200103D2-2	DB	4-JAN-20	02:47:28	ST200103D2-1	ST200103D2-2

Peak Locate Examination: 3-JAN-2020:14:45 File:200103D2

Experiment:OCDD\_DB5 Function:1 Reference:PFK

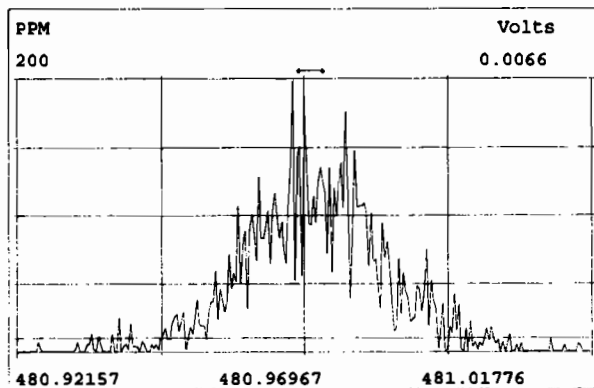
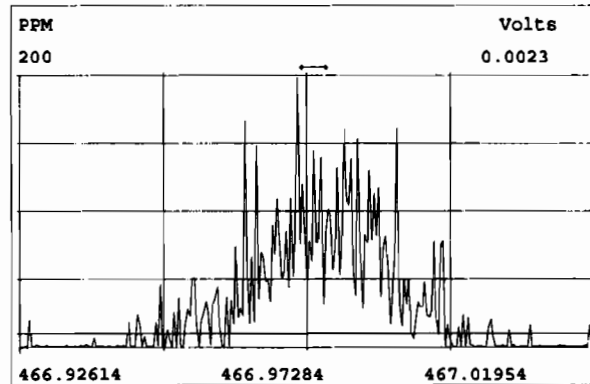
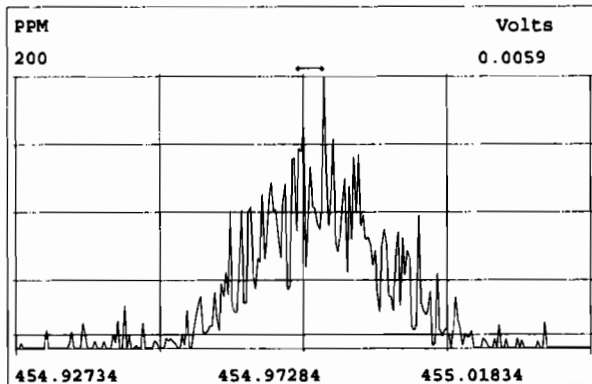
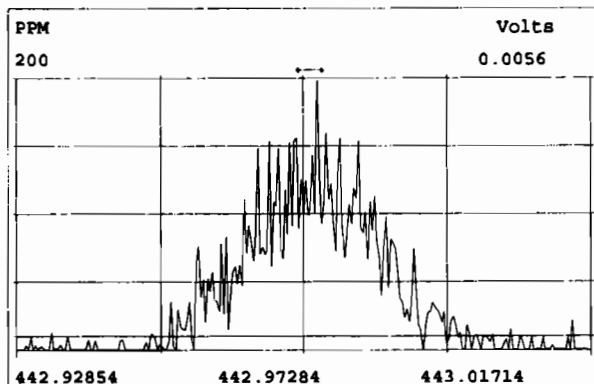
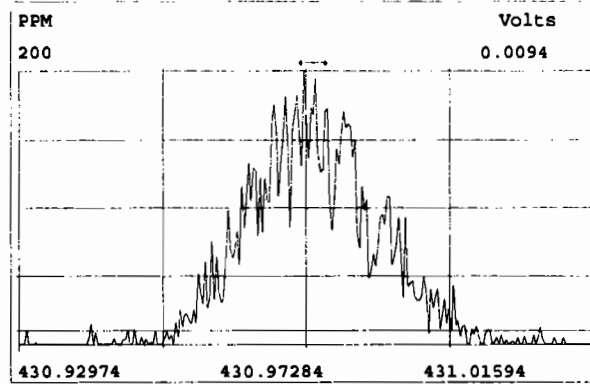
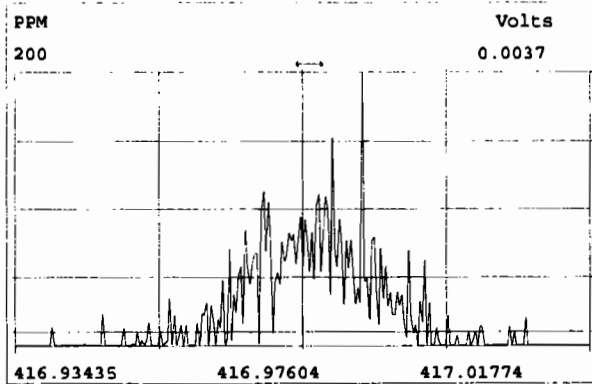
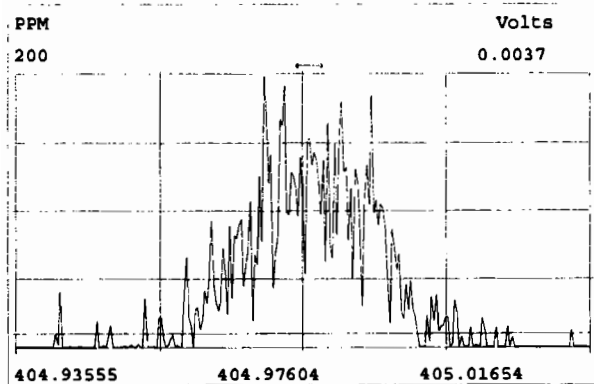






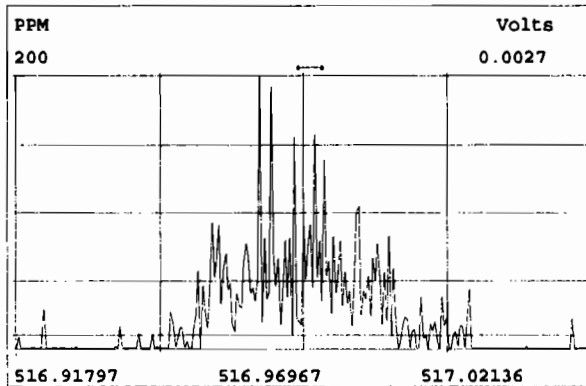
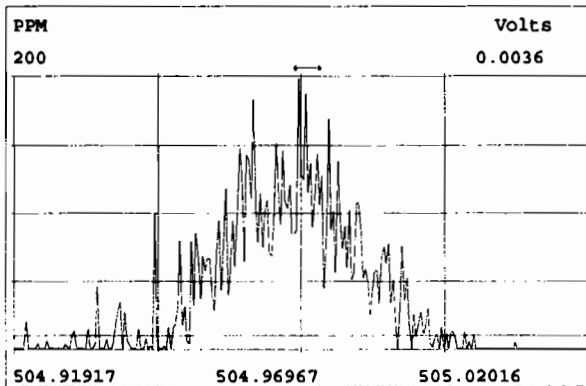
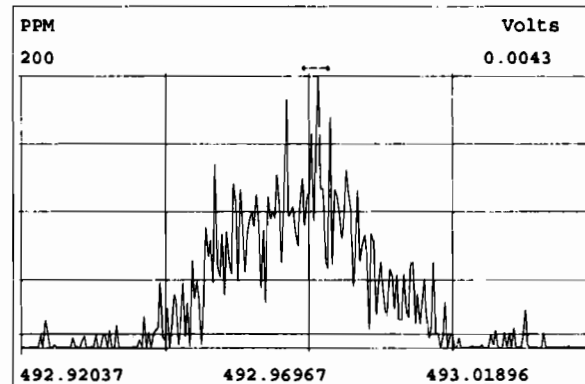
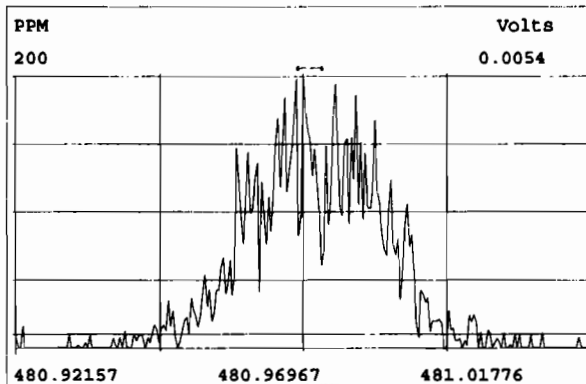
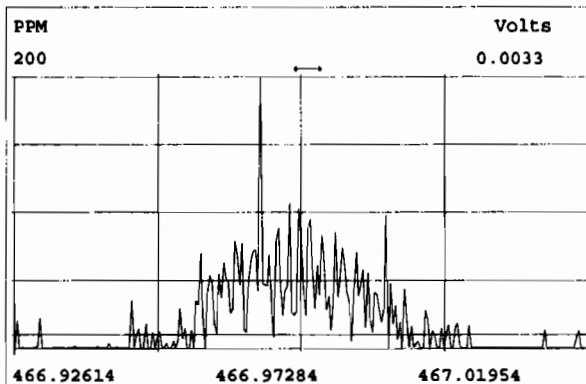
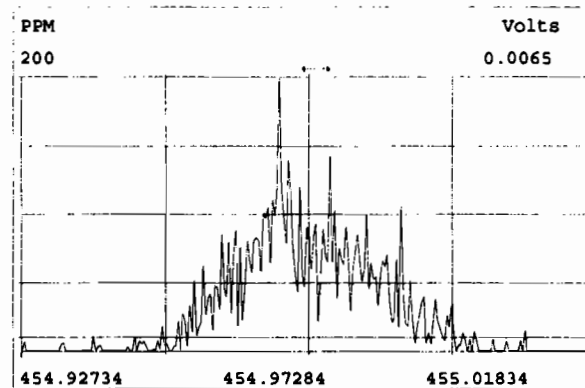
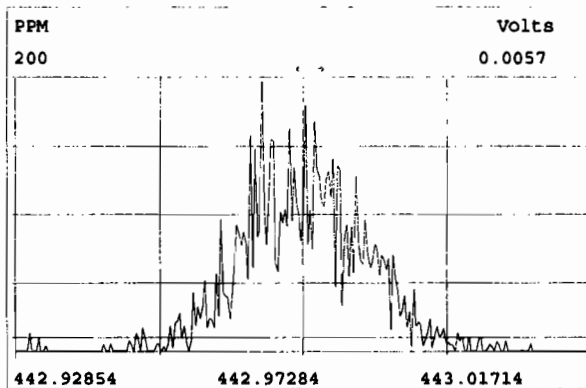
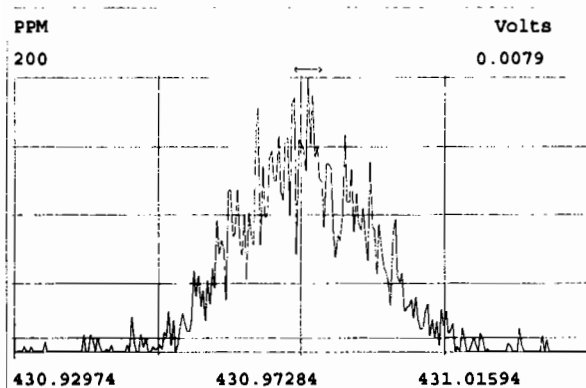
Peak Locate Examination: 3-JAN-2020:14:49 File:200103D2

Experiment:OCDD\_DB5 Function:4 Reference:PFK



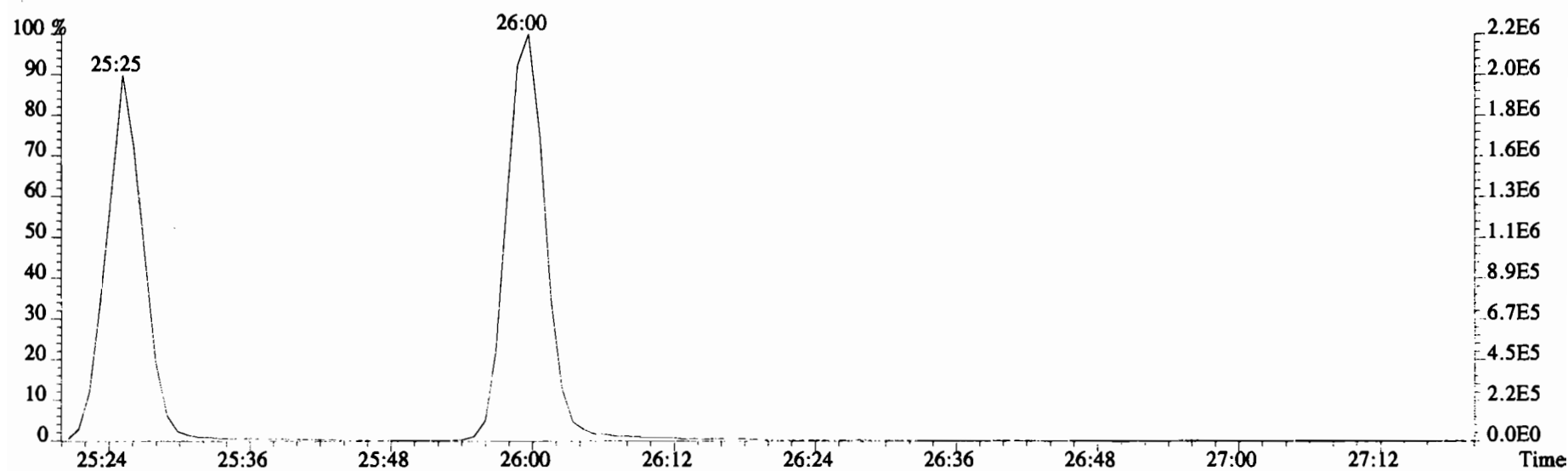
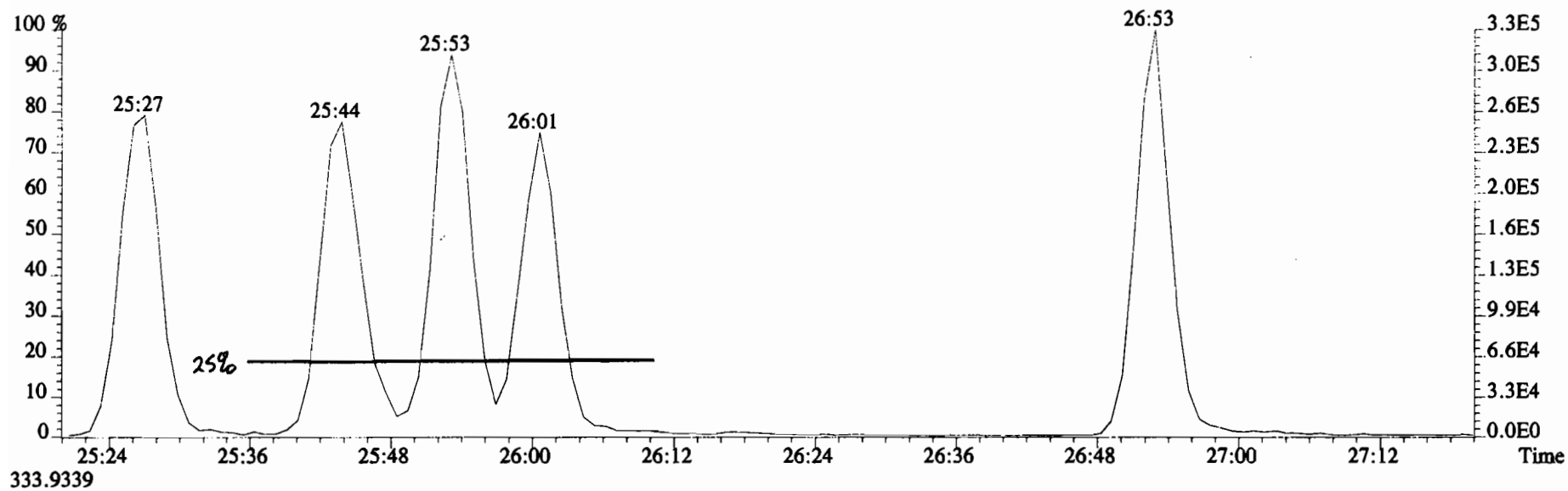
Peak Locate Examination: 3-JAN-2020:14:50 File:200103D2

Experiment:OCDD\_DB5 Function:5 Reference:PFK

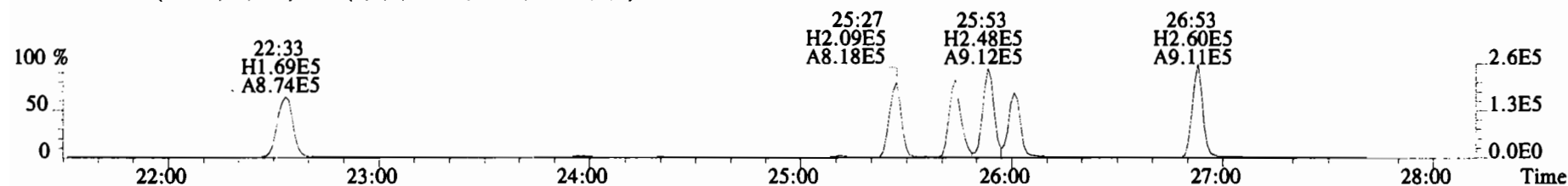




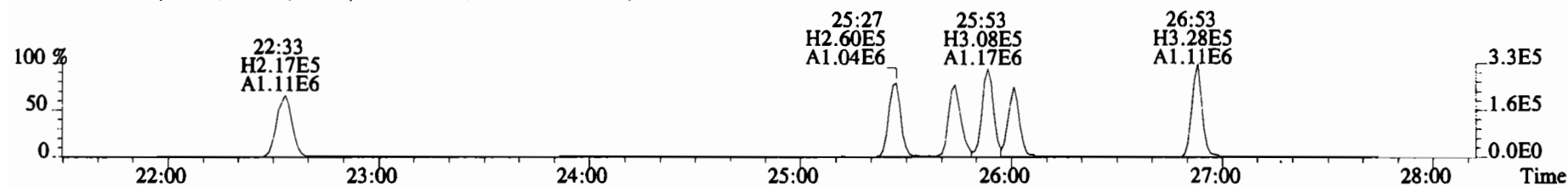
File:200103D2 #1-493 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
321.8936



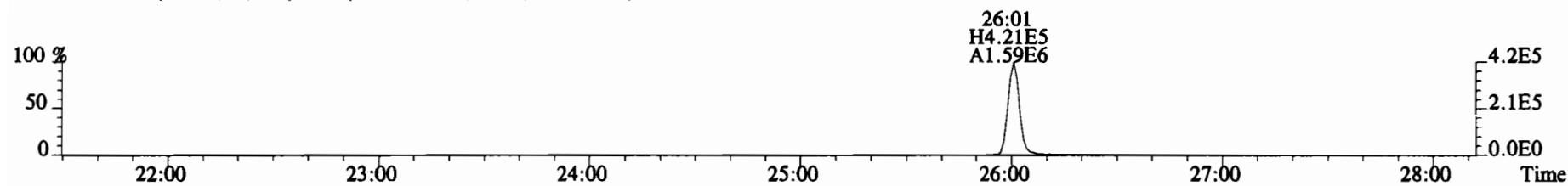
File:200103D2 #1-493 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



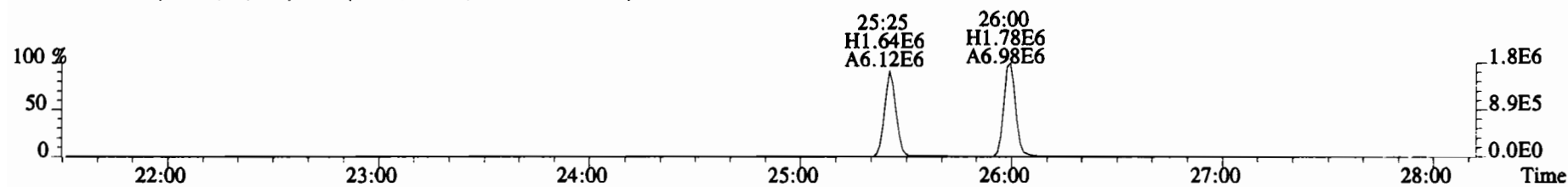
321.8936 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



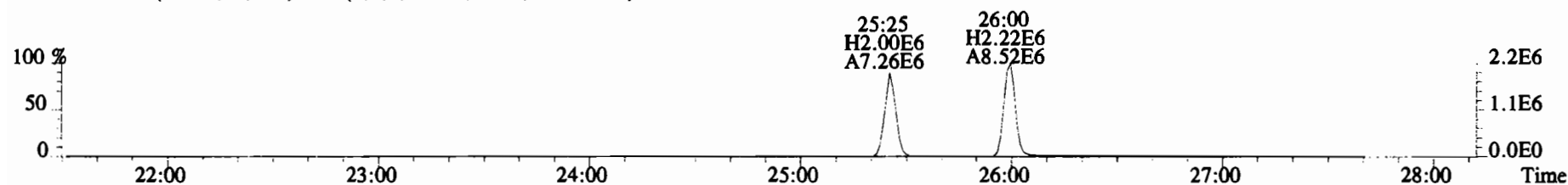
327.8847 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



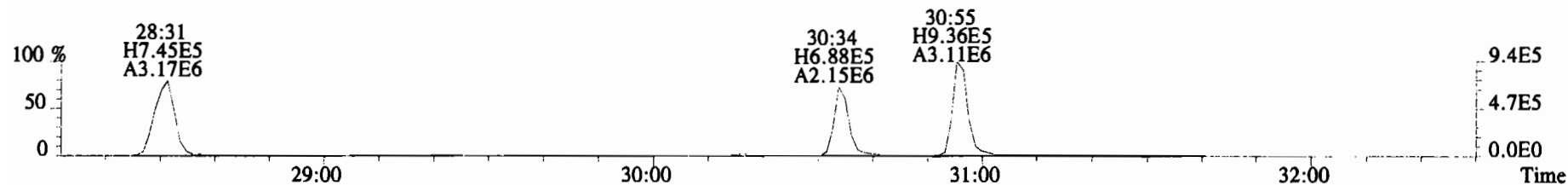
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



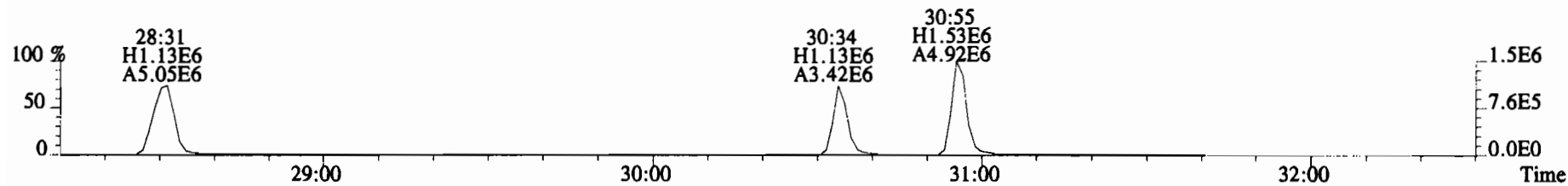
333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



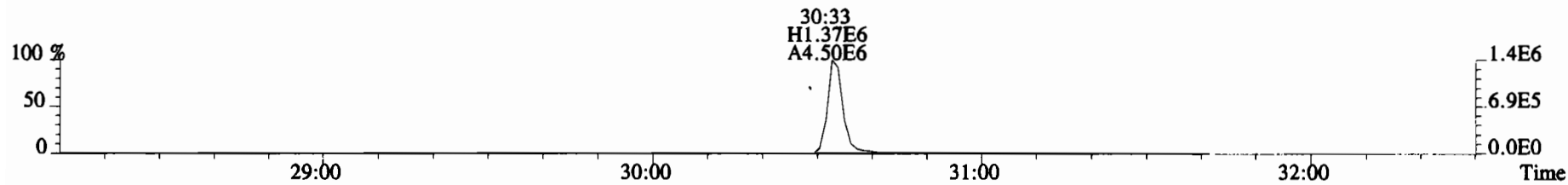
File:200103D2 #1-211 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
 353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



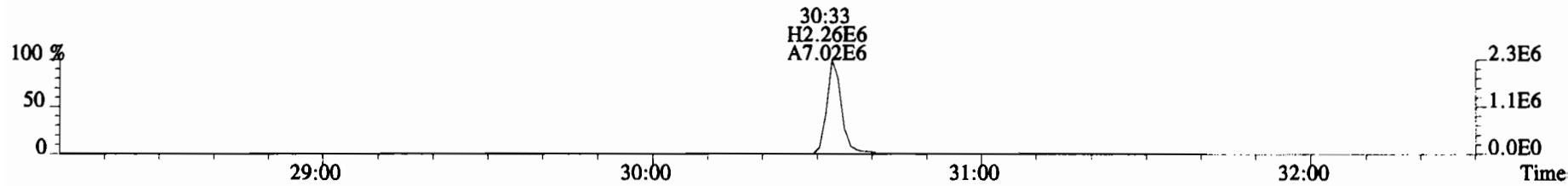
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



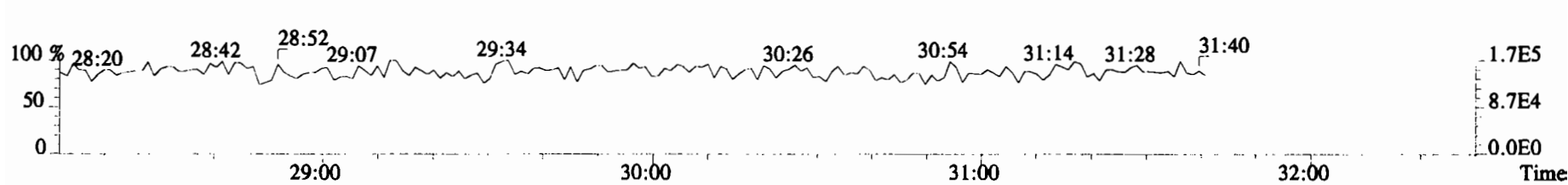
365.8978 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



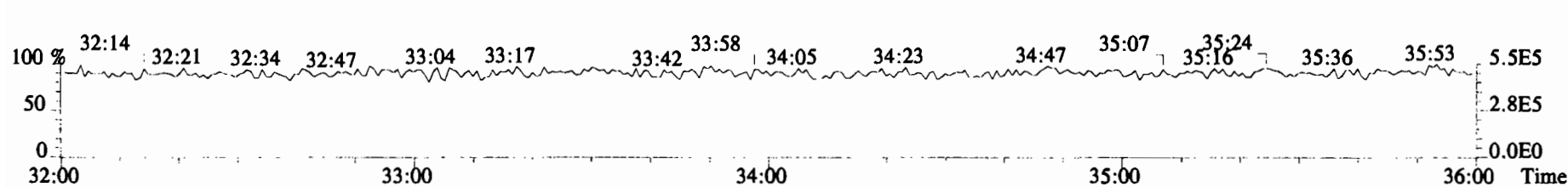
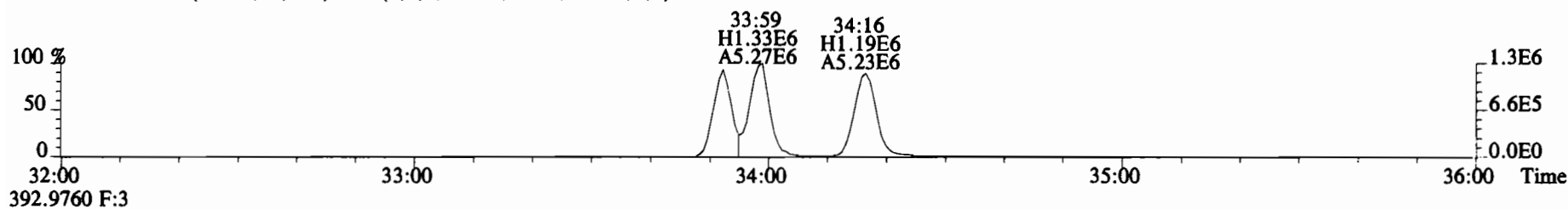
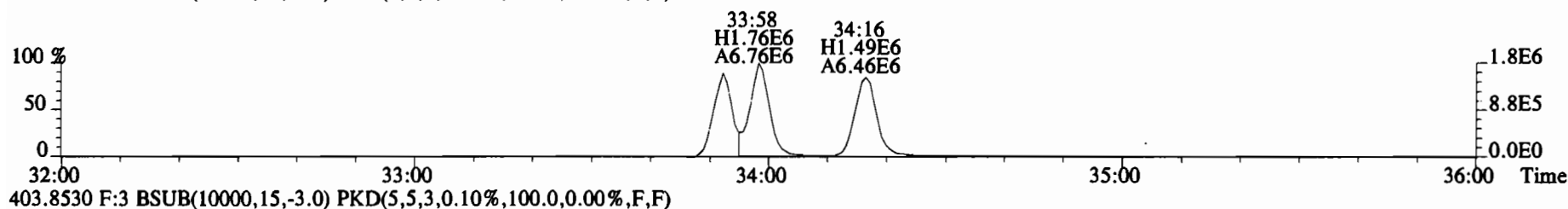
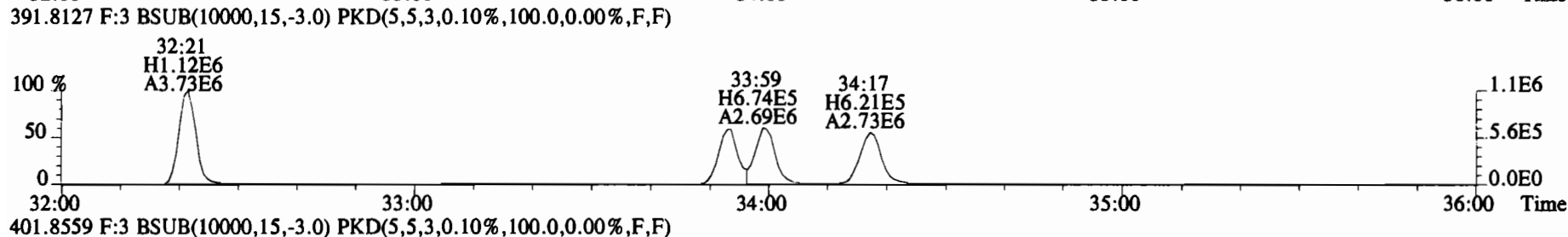
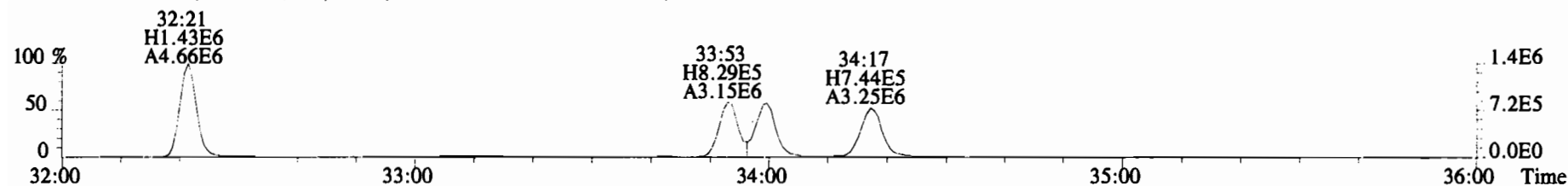
367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



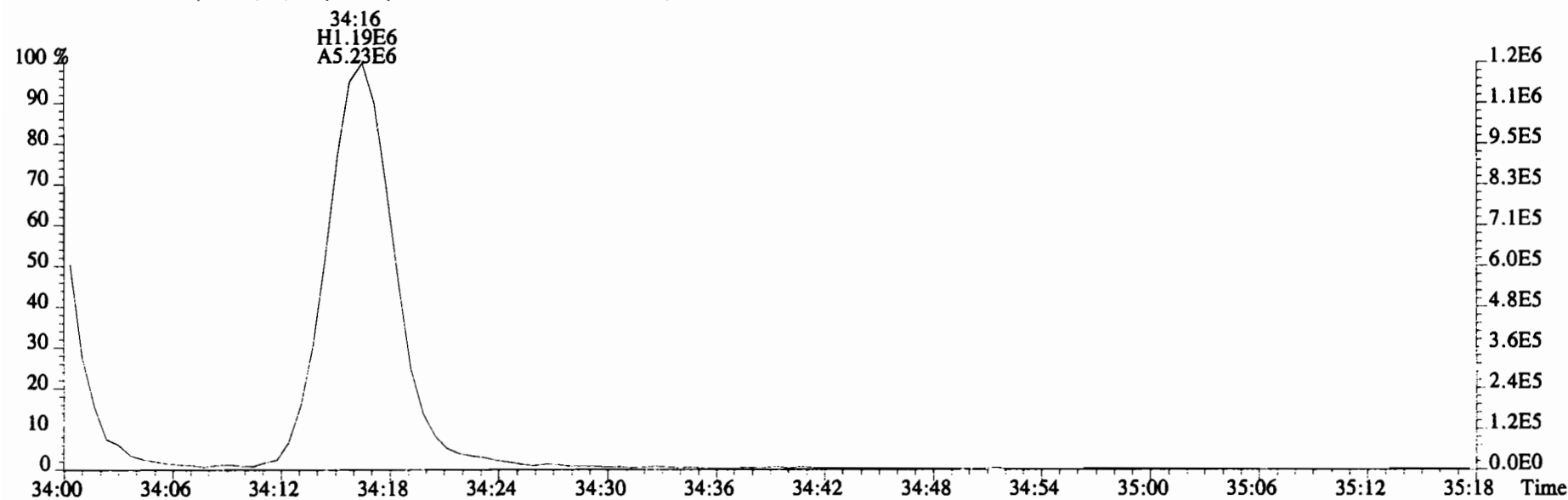
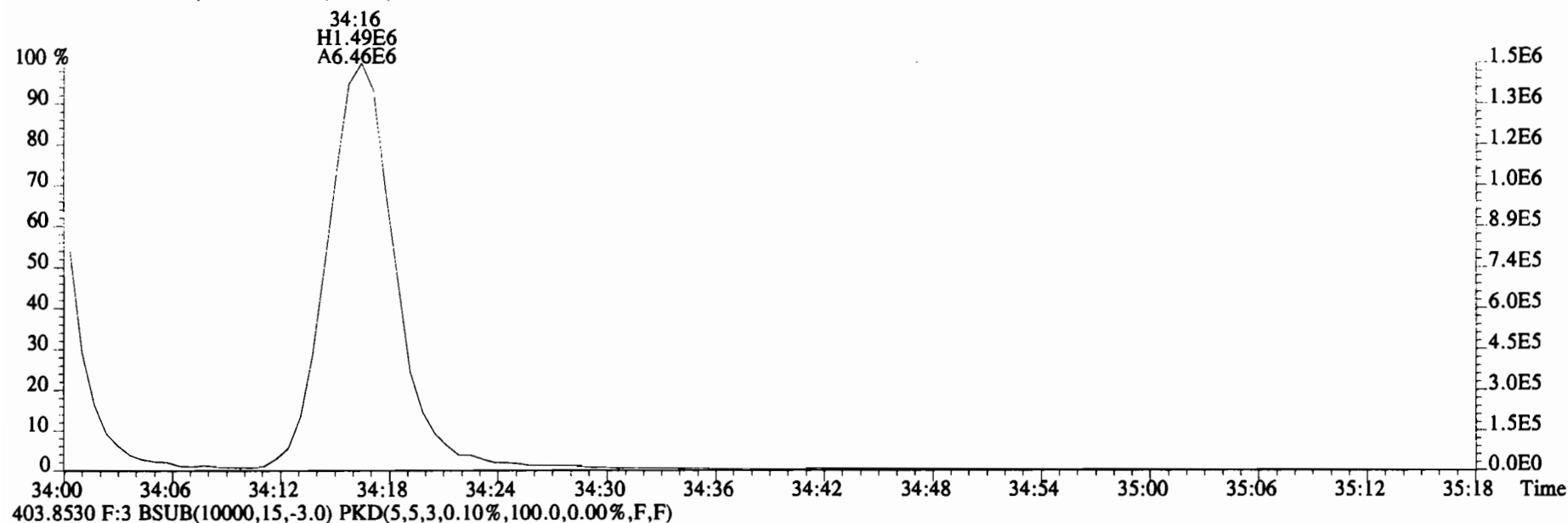
366.9792 F:2



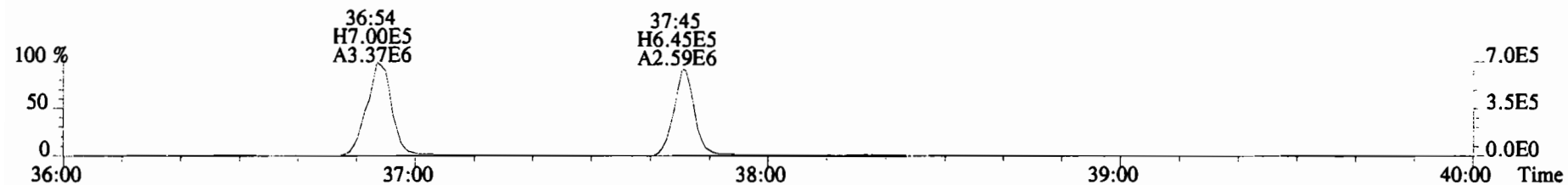
File:200103D2 #1-384 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory\_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



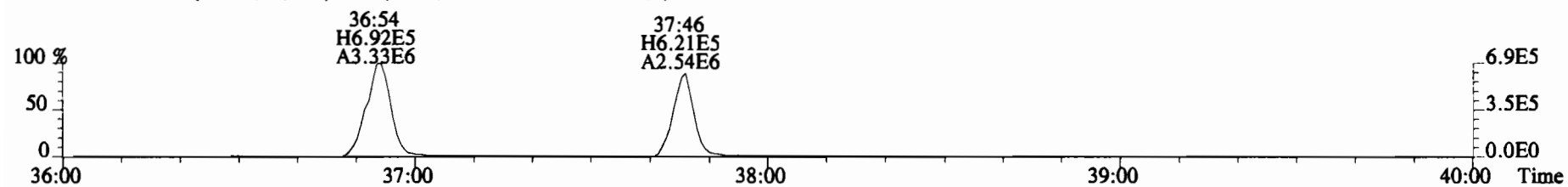
File:200103D2 #1-384 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



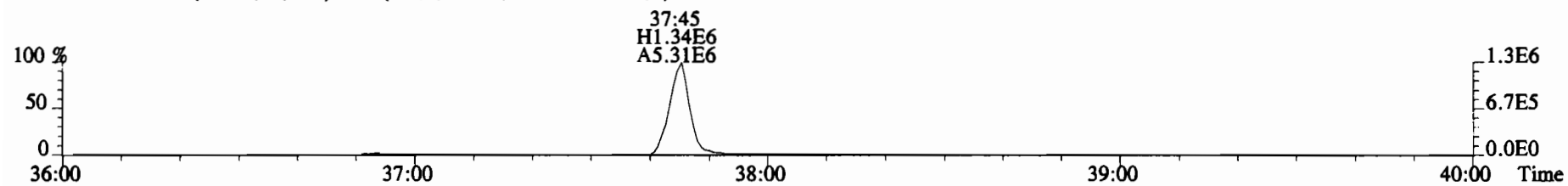
File:200103D2 #1-356 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



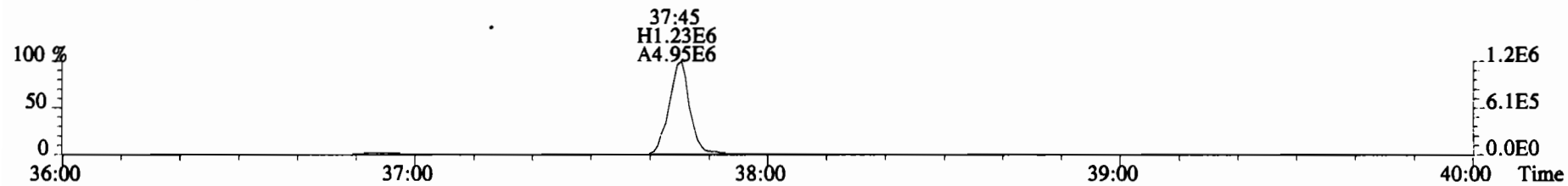
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



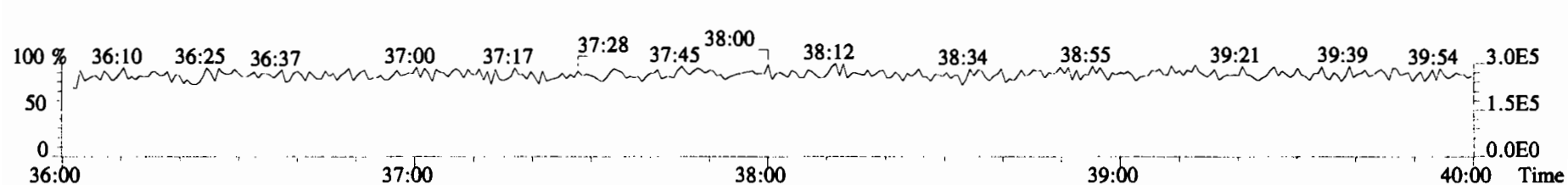
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



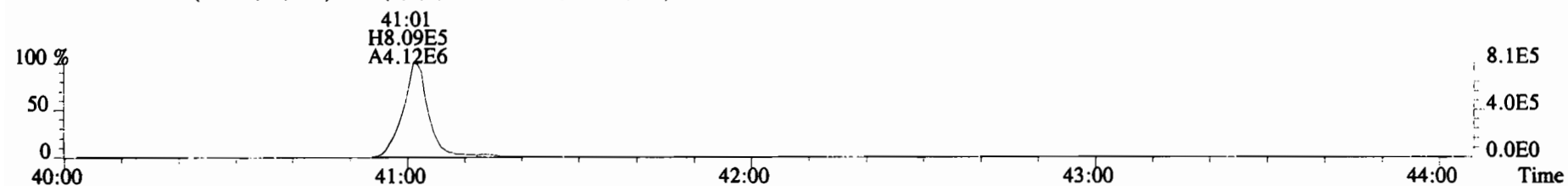
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



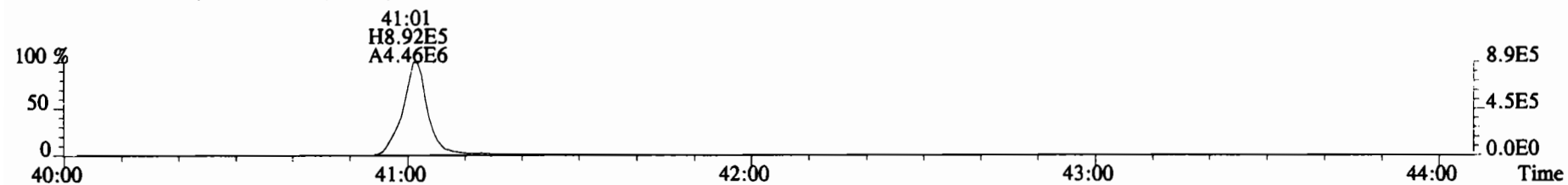
454.9728 F:4



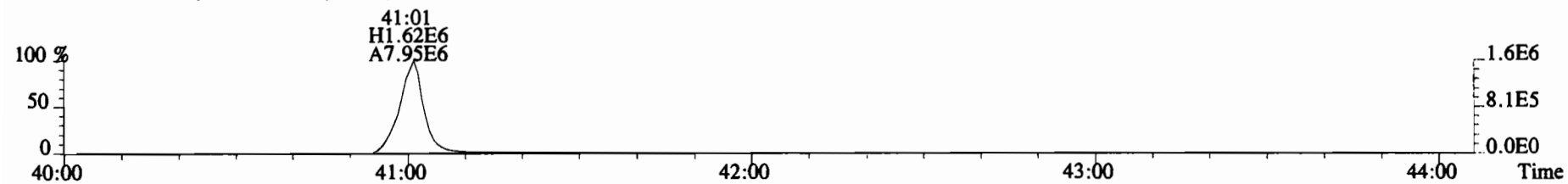
File:200103D2 #1-432 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



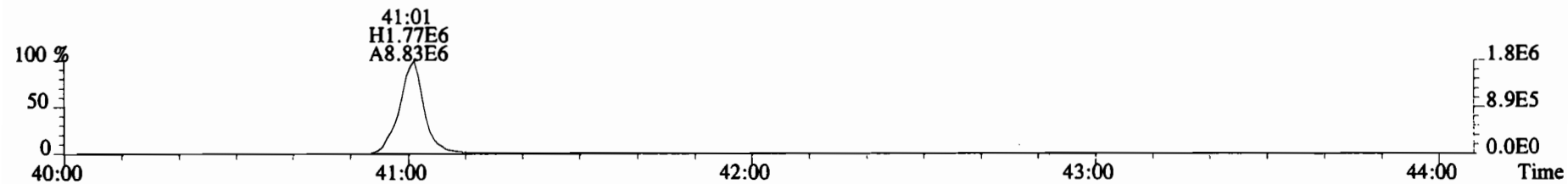
459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



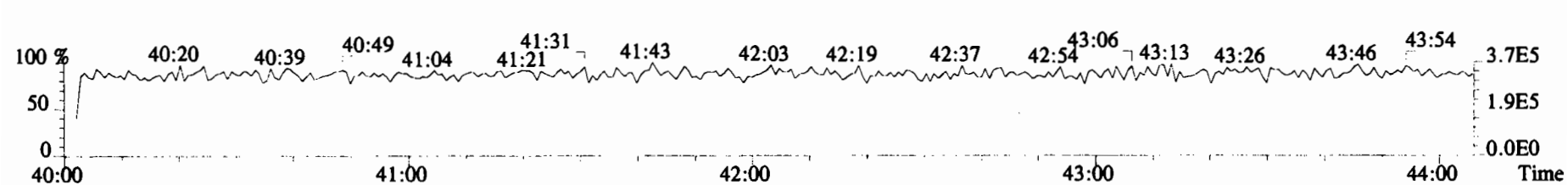
469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



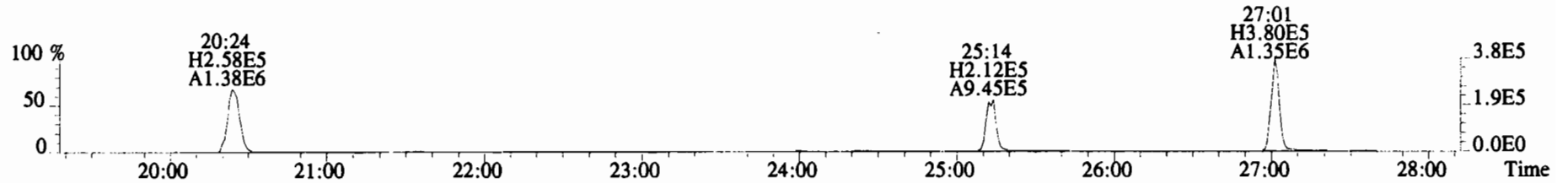
471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



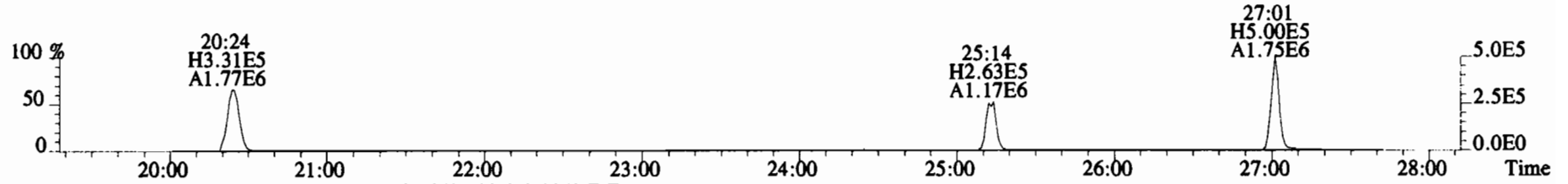
454.9728 F:5



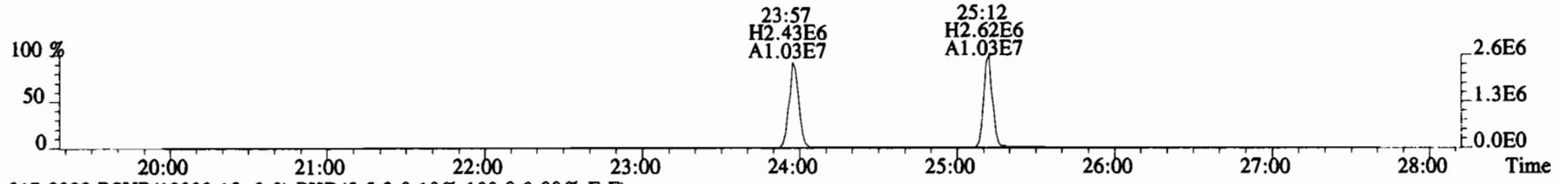
File:200103D2 #1-493 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
 303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



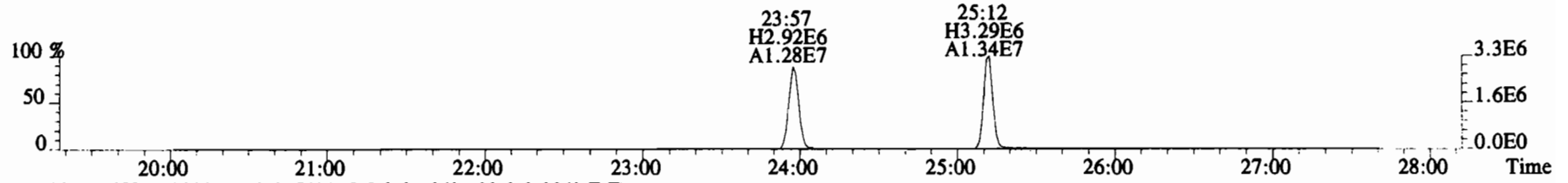
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



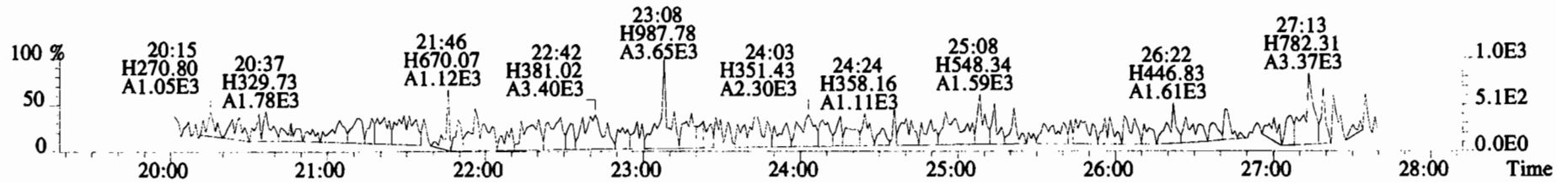
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

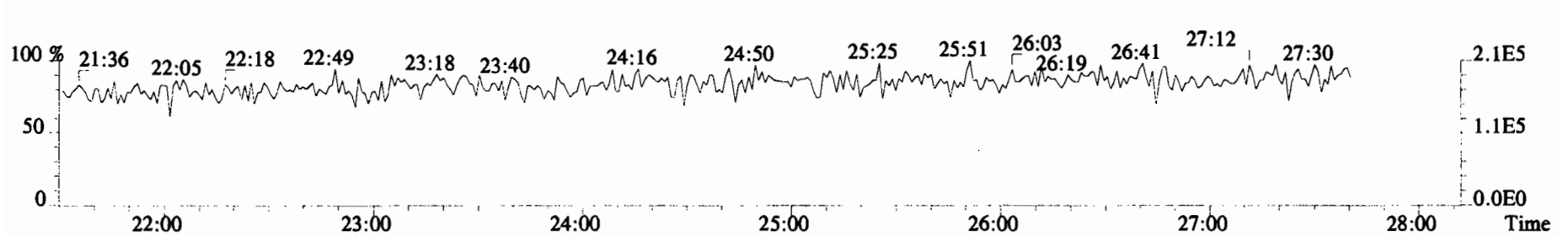
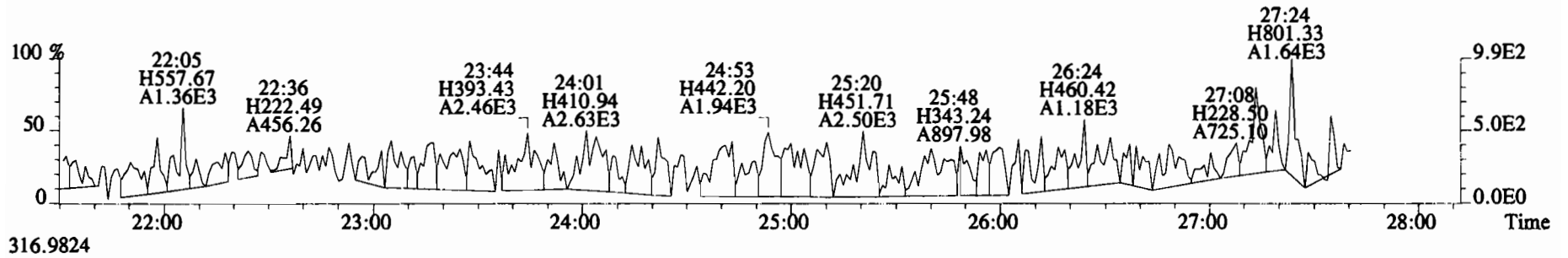
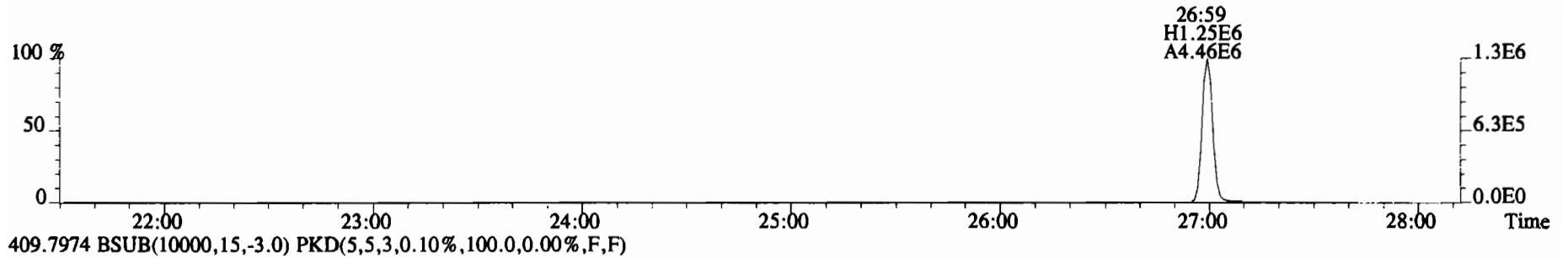
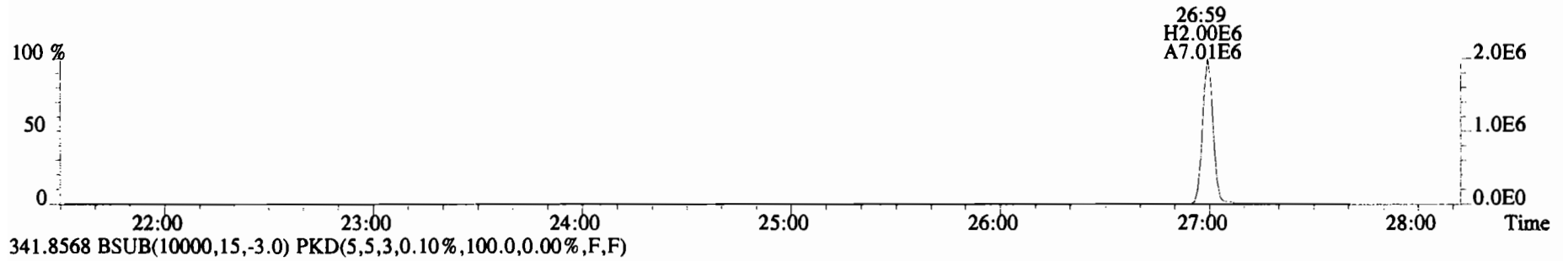


375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

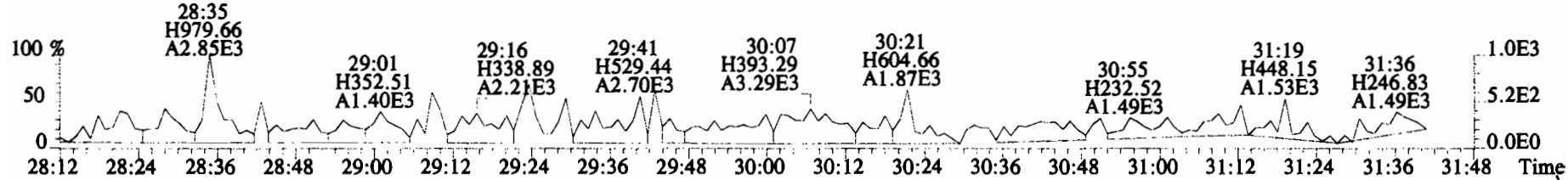
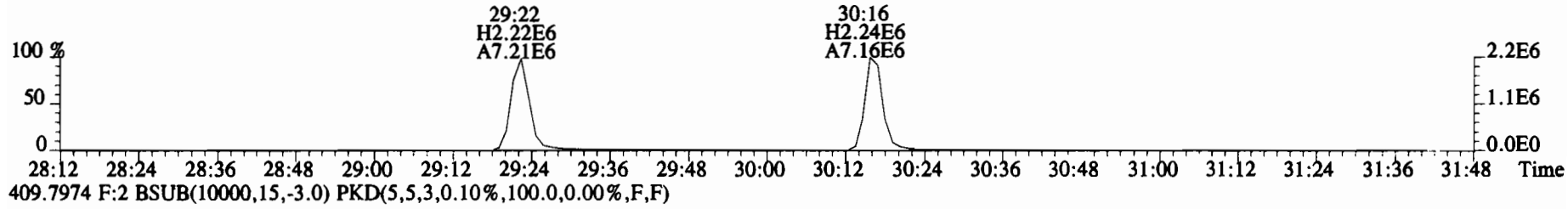
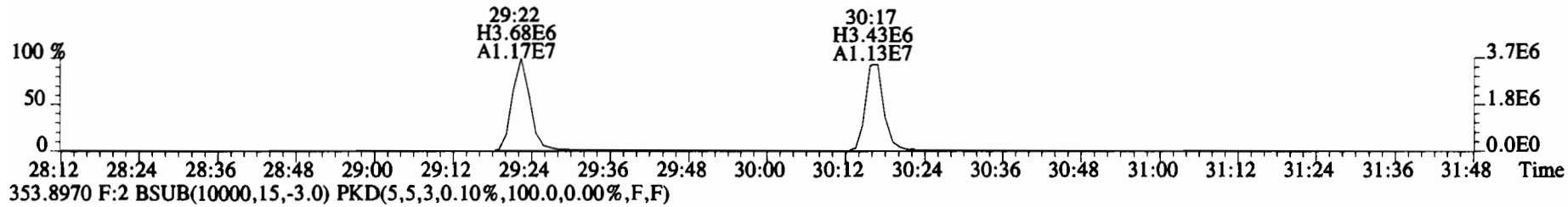
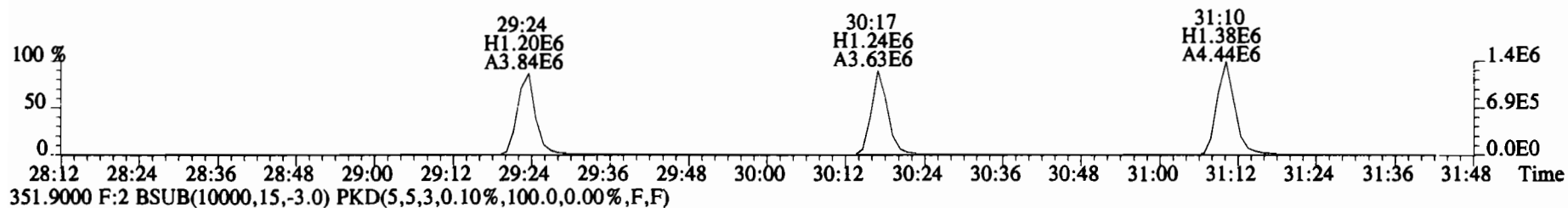
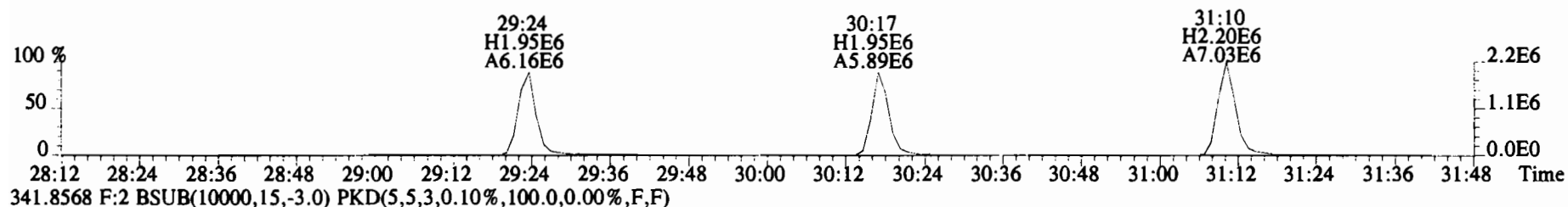




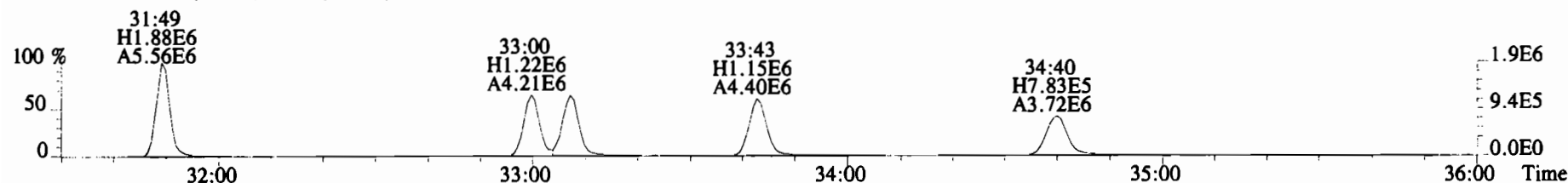
File:200103D2 #1-493 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
 339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



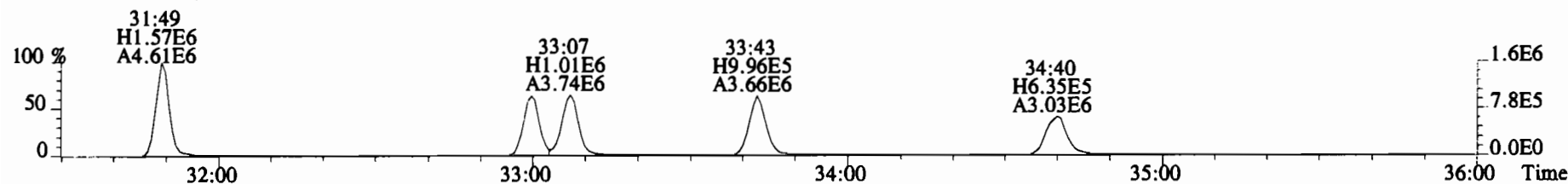
File:200103D2 #1-211 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
 339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



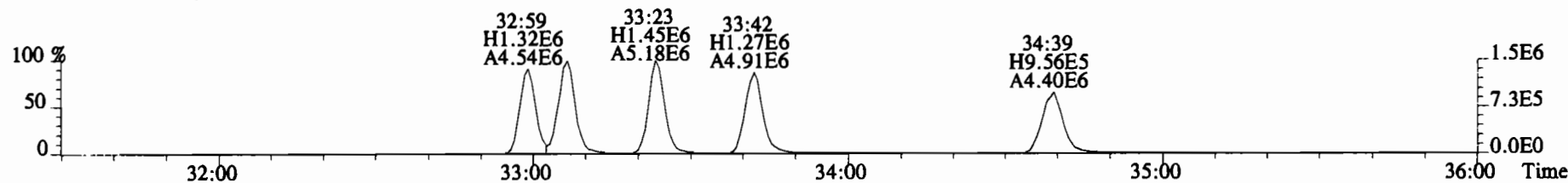
File:200103D2 #1-384 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
 373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



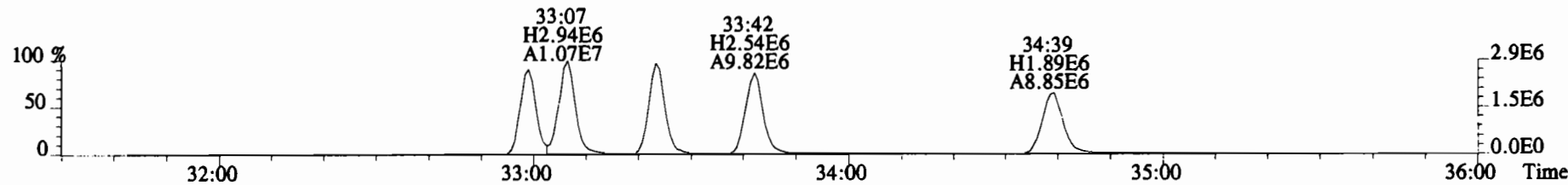
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



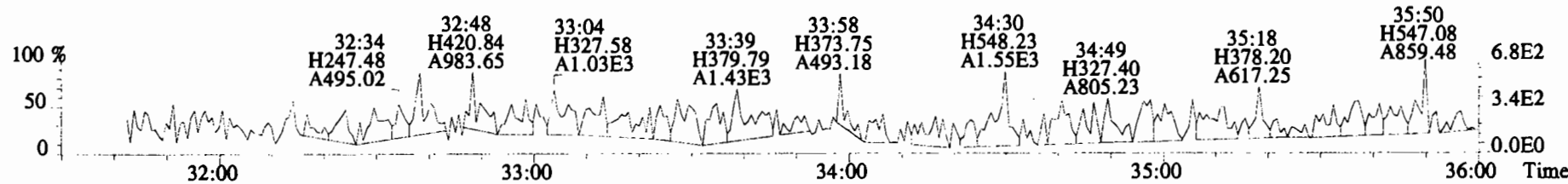
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



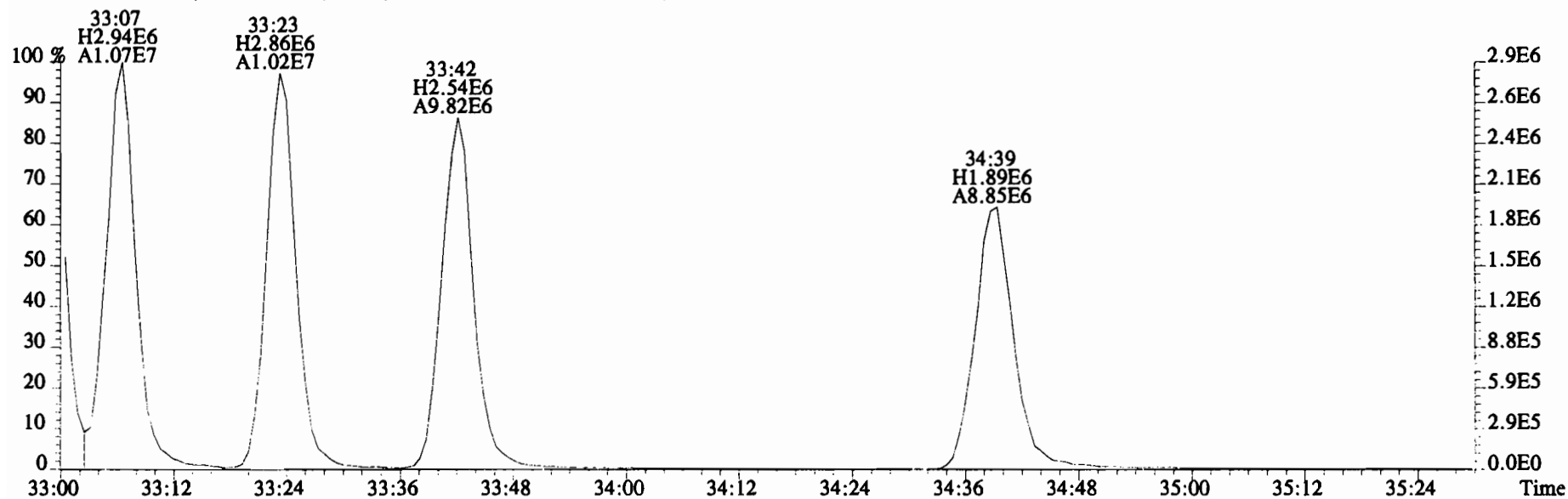
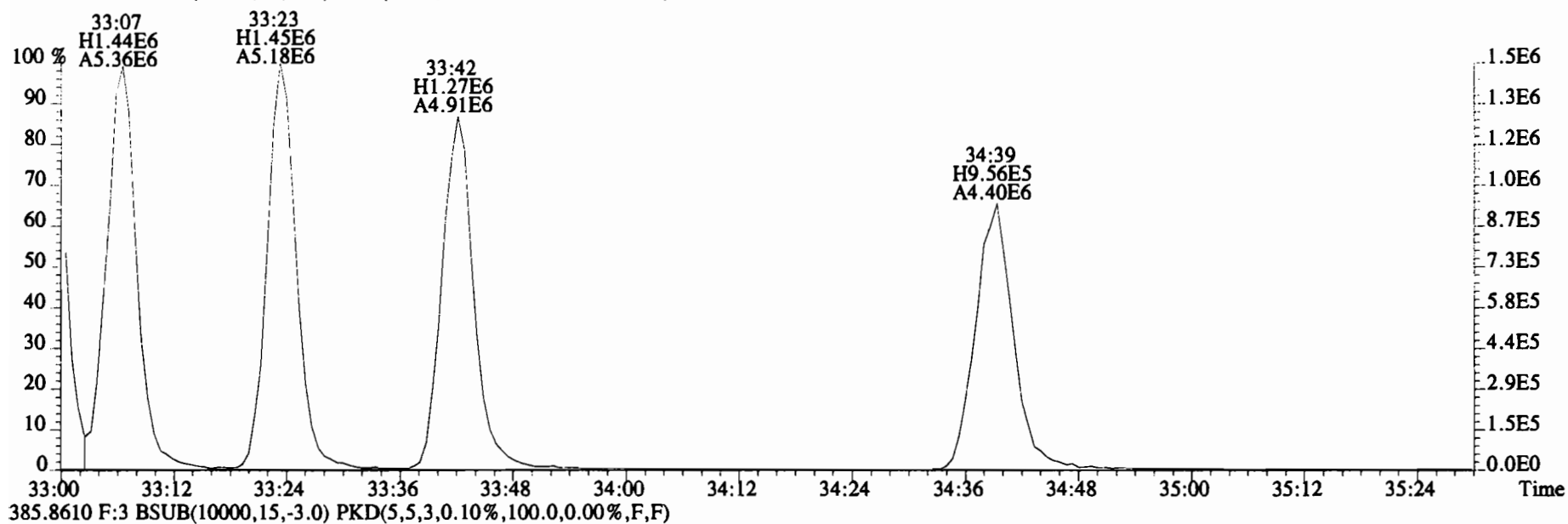
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



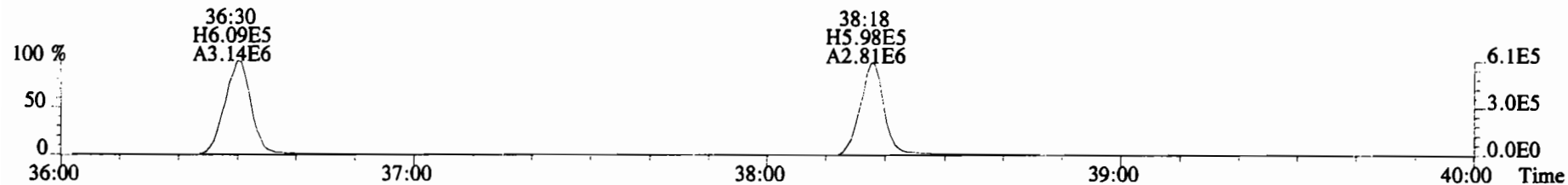
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



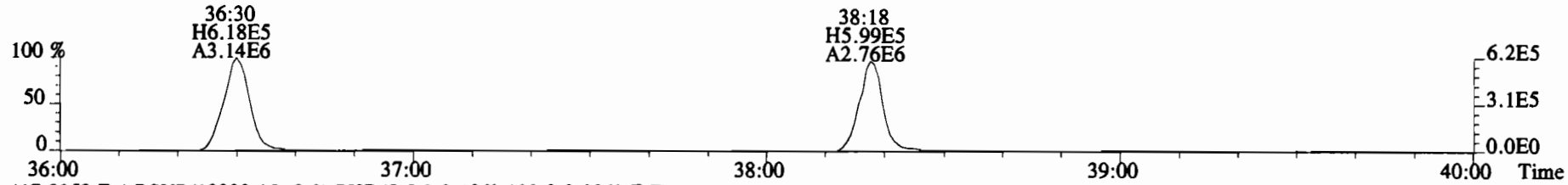
File:200103D2 #1-384 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



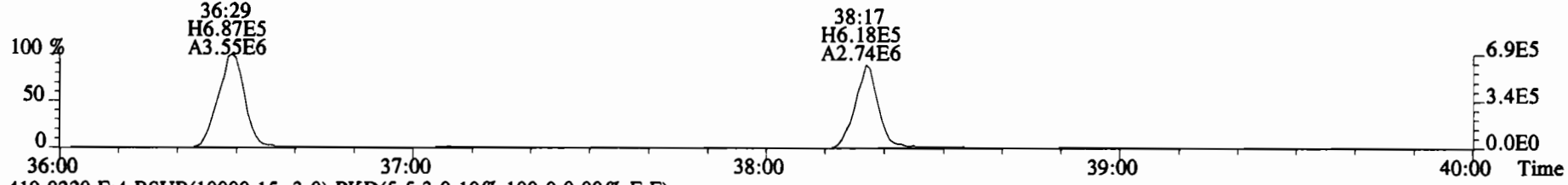
File:200103D2 #1-356 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
 407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



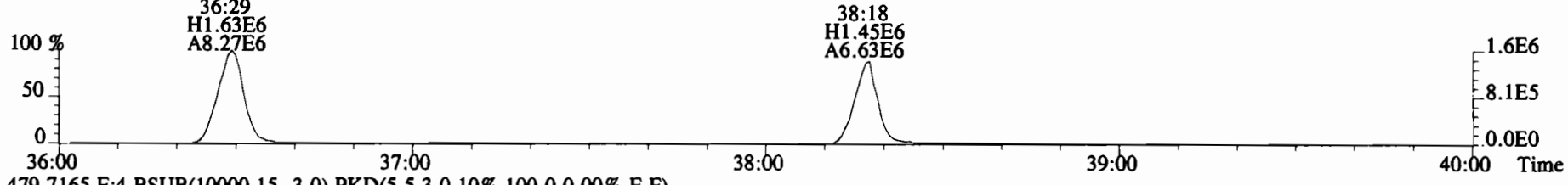
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



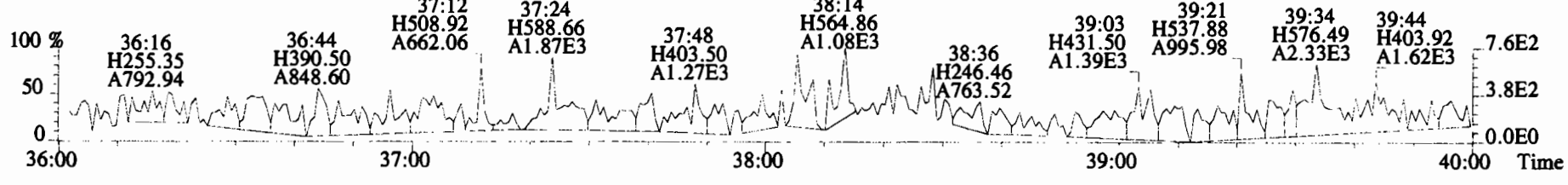
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



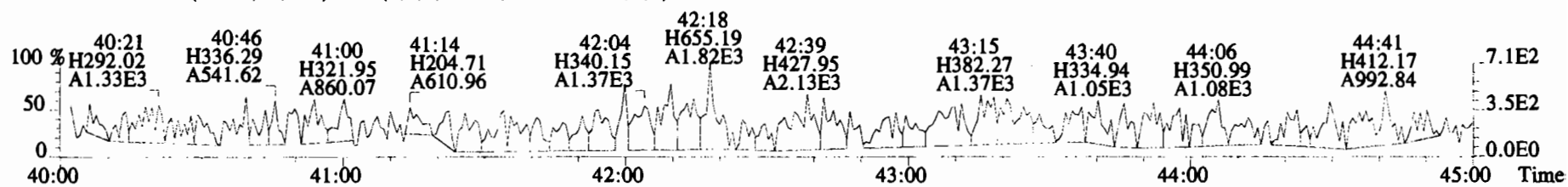
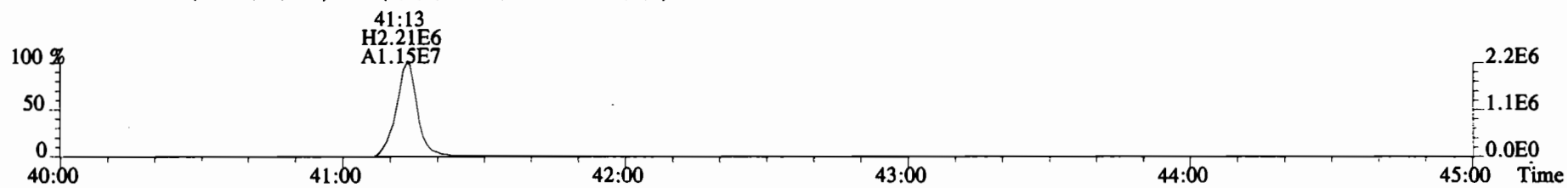
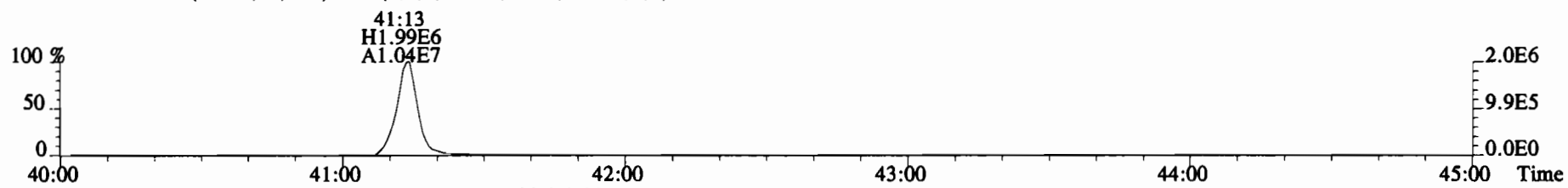
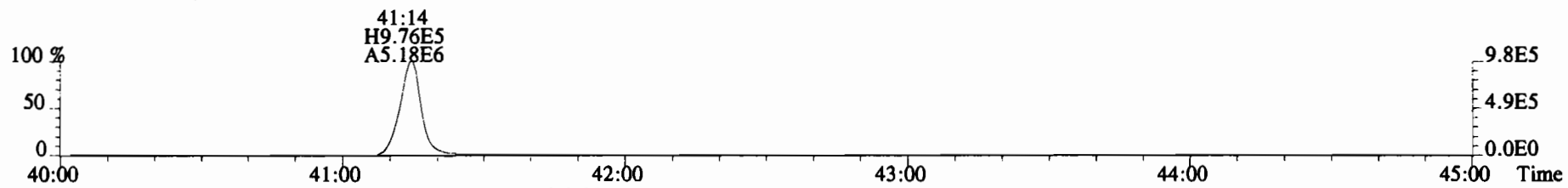
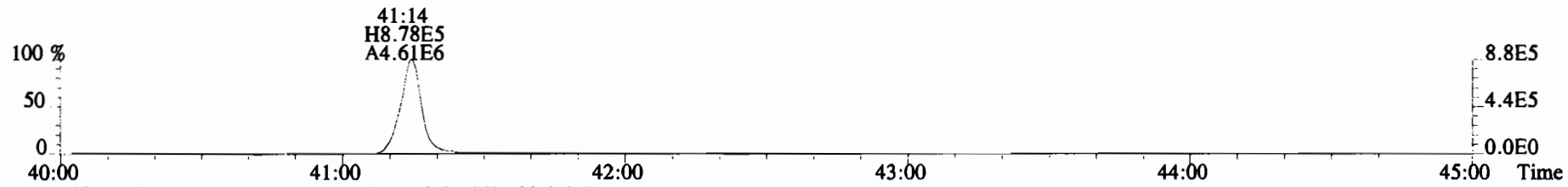
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

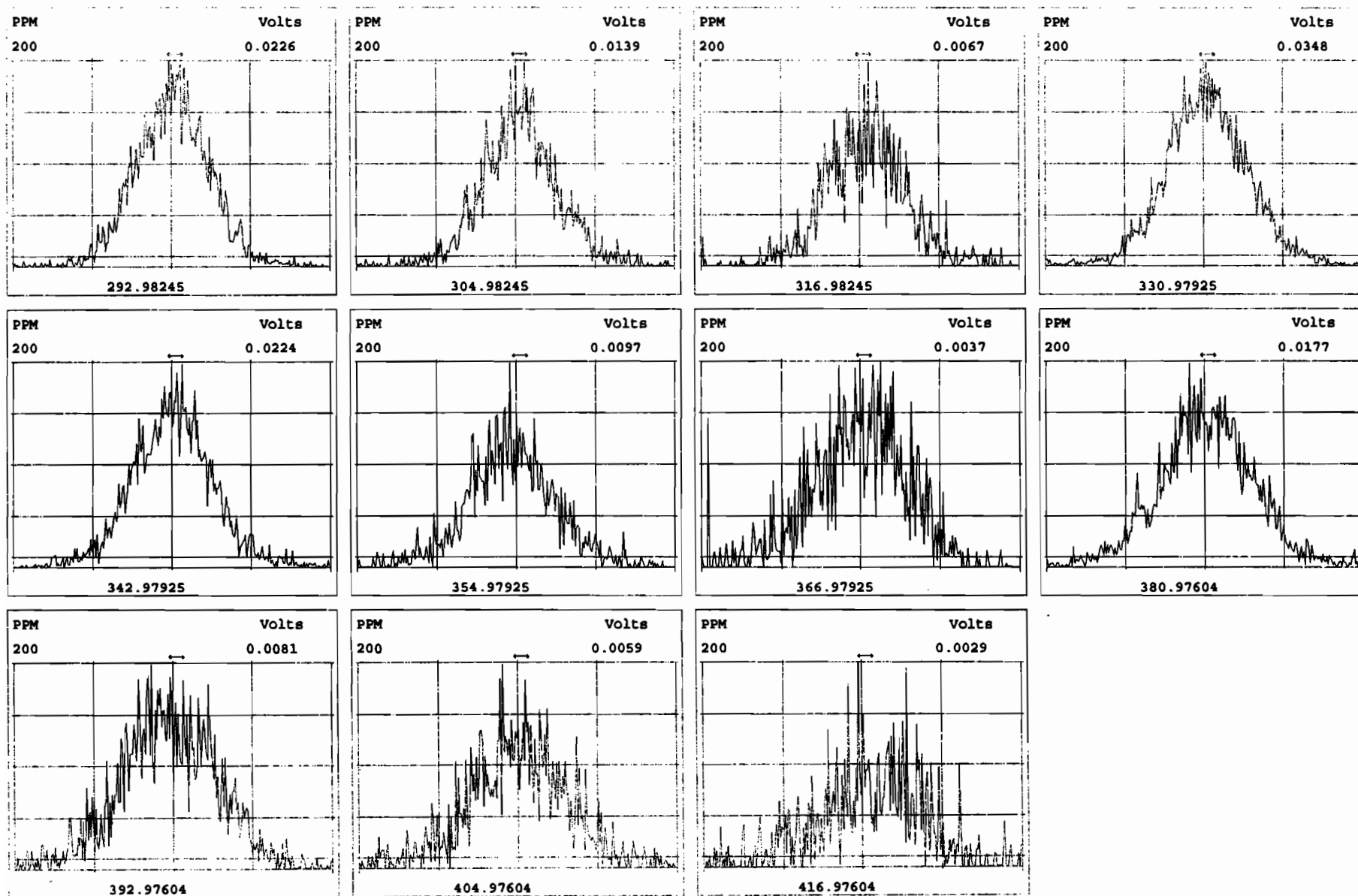


File:200103D2 #1-432 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
 441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



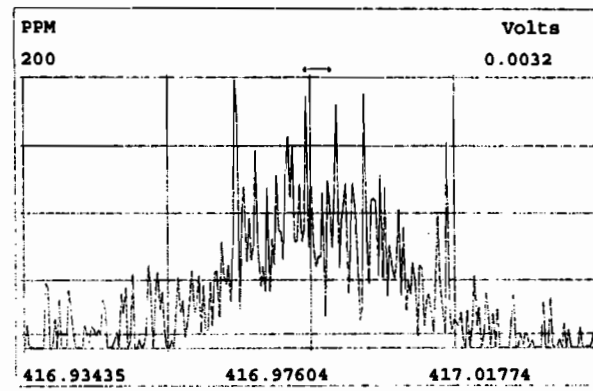
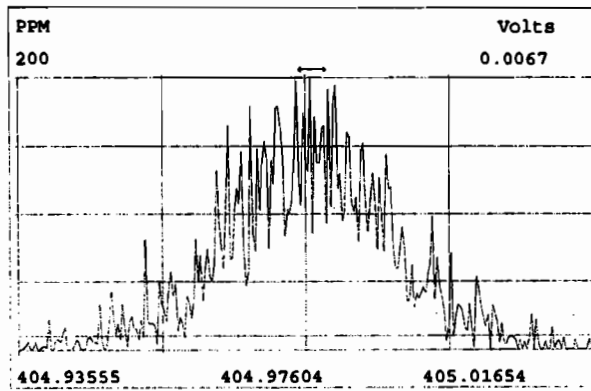
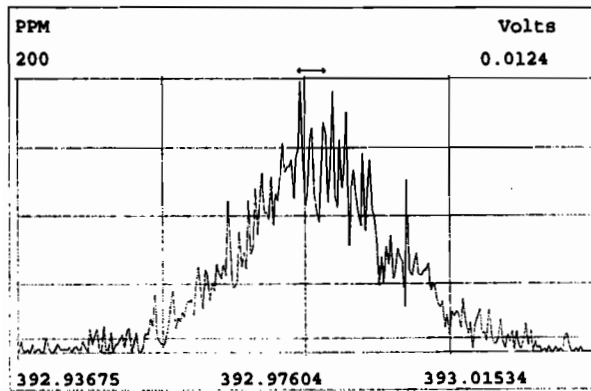
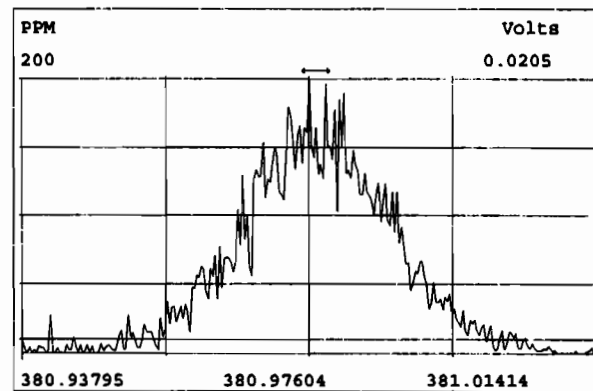
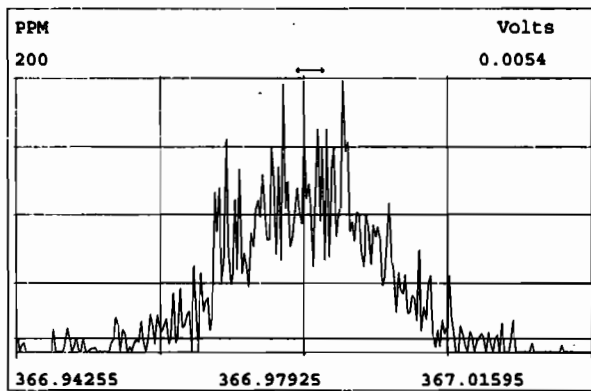
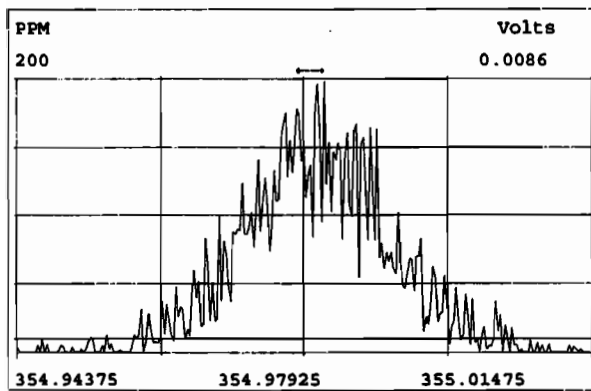
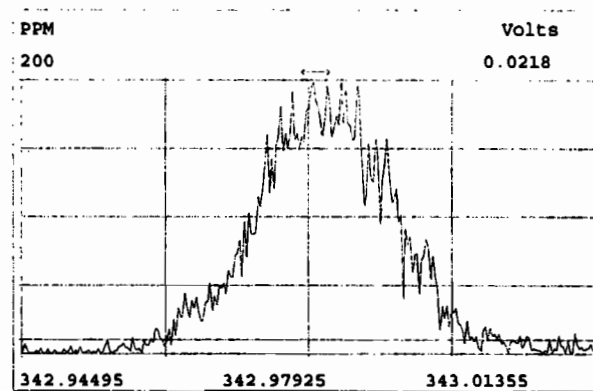
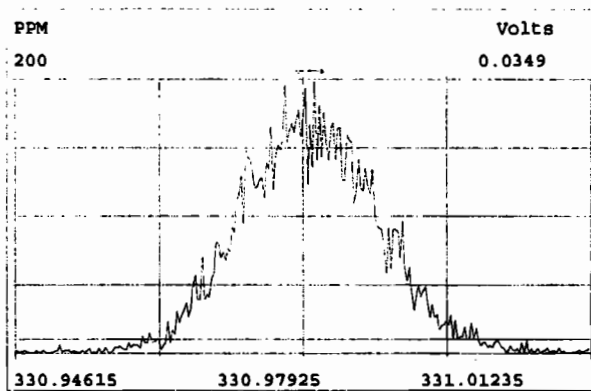
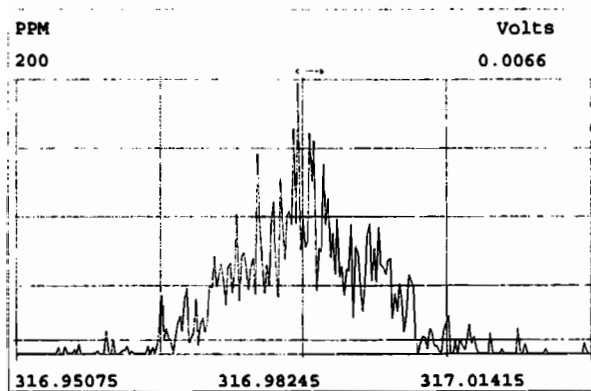
Peak Locate Examination: 4-JAN-2020:03:45 File:RES\_CHECK

Experiment:OCDD\_DB5 Function:1 Reference:PFK



Peak Locate Examination: 4-JAN-2020:03:45 File:RES\_CHECK

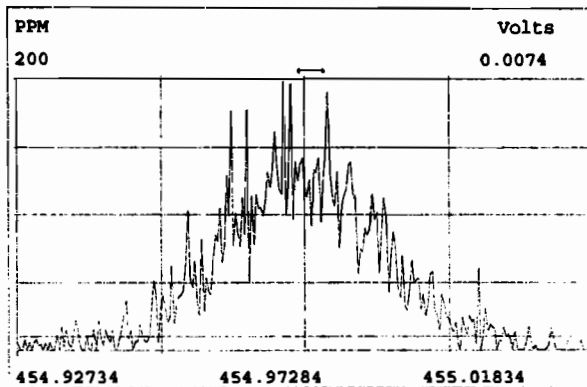
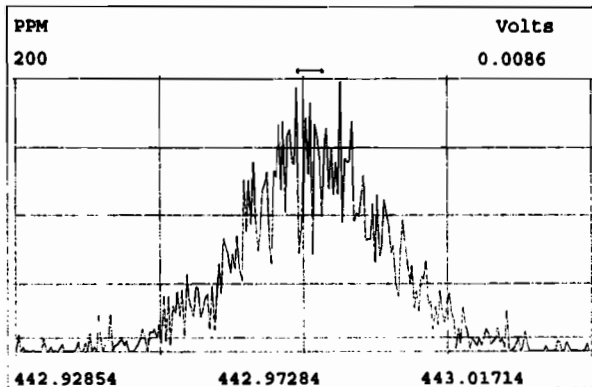
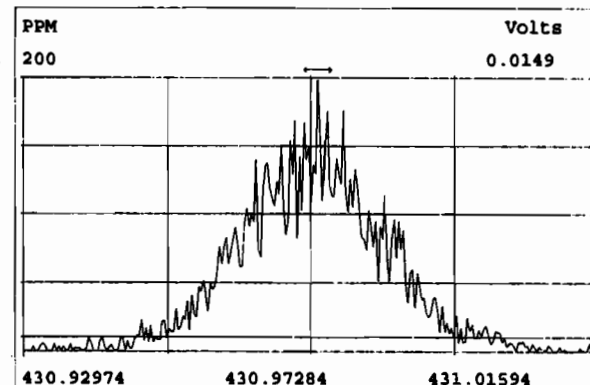
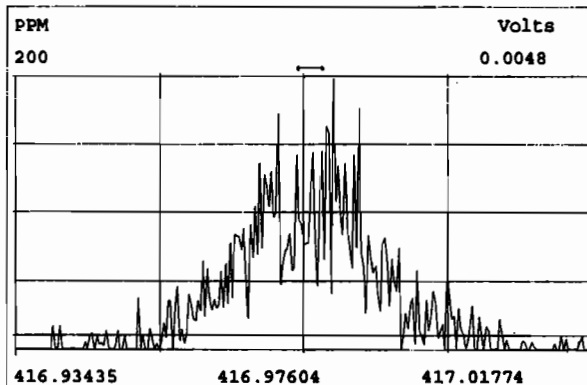
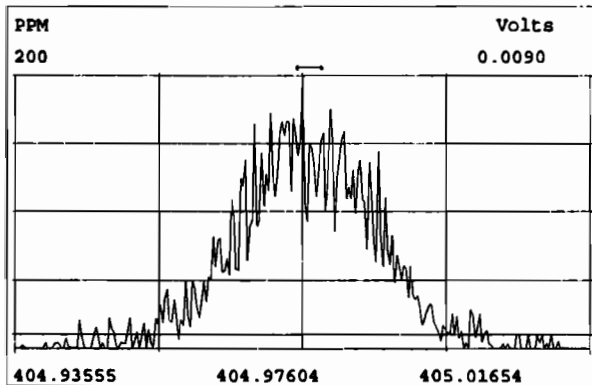
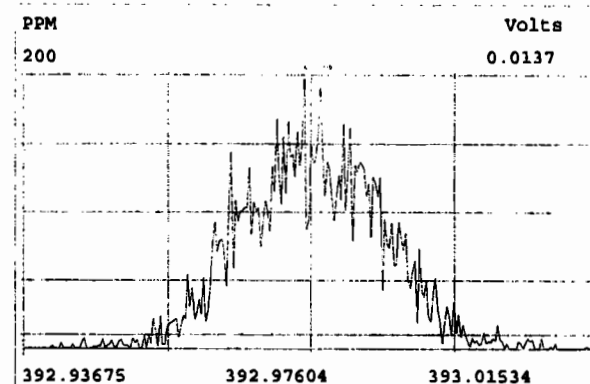
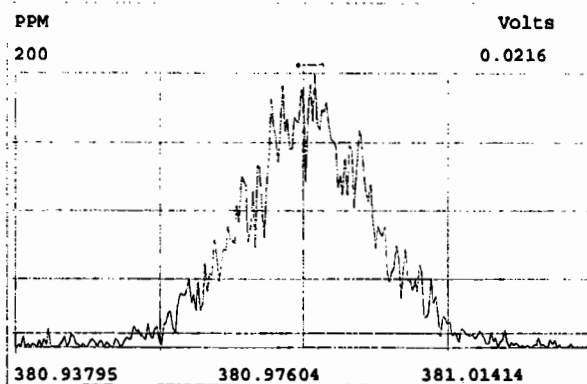
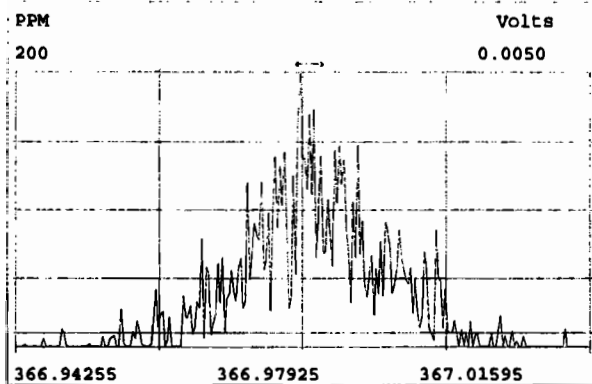
Experiment:OCDD\_DB5 Function:2 Reference:PFK





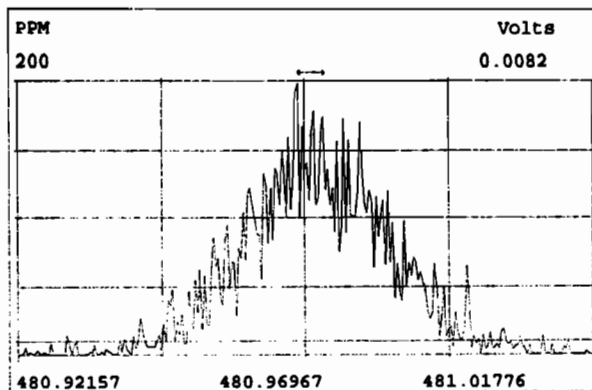
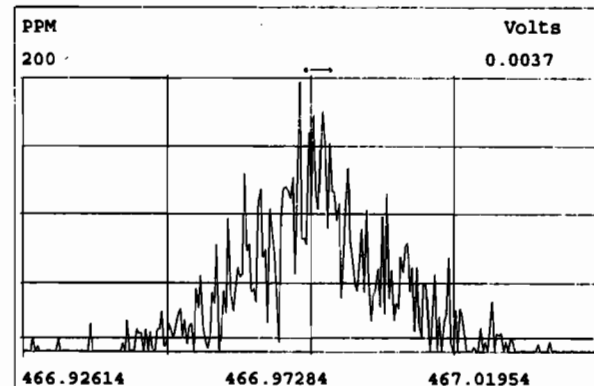
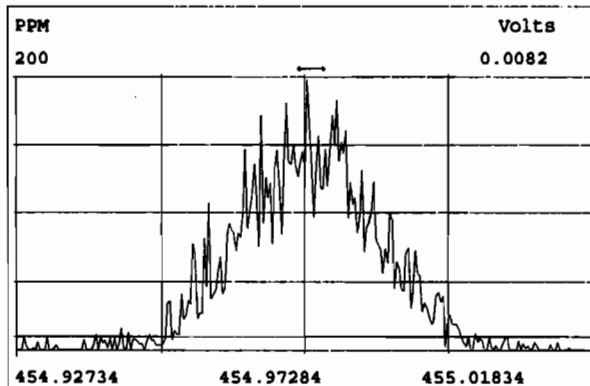
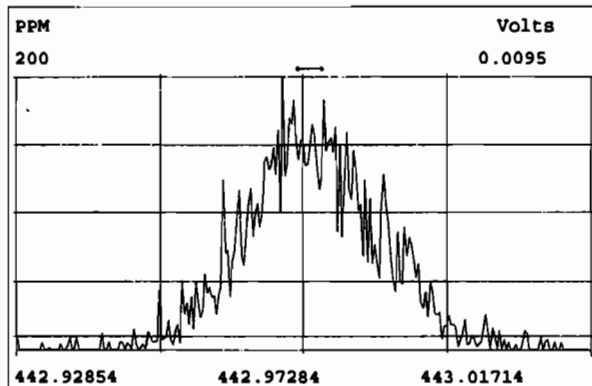
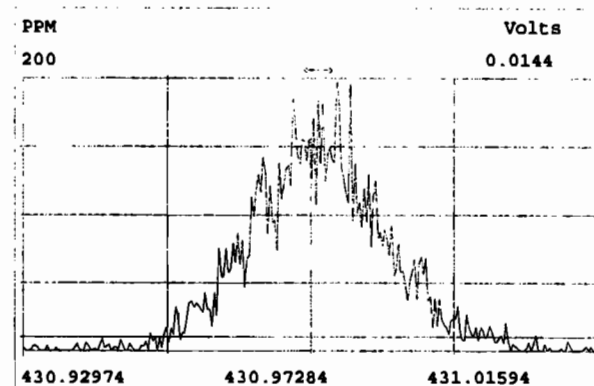
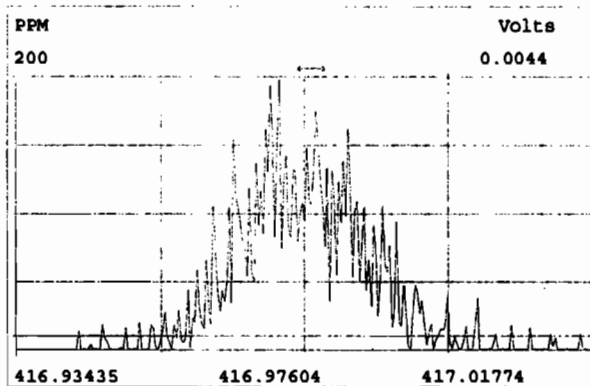
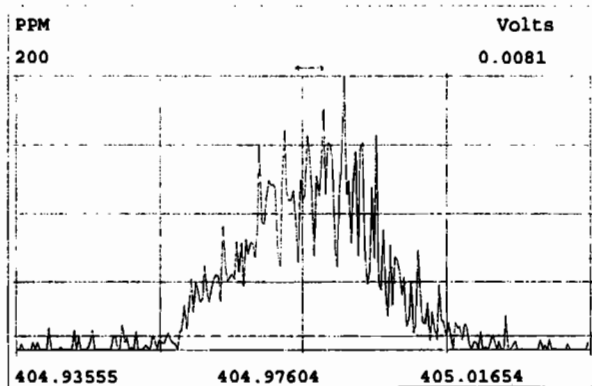
Peak Locate Examination: 4-JAN-2020:03:46 File:RES\_CHECK

Experiment:OCDD\_DB5 Function:3 Reference:PPK



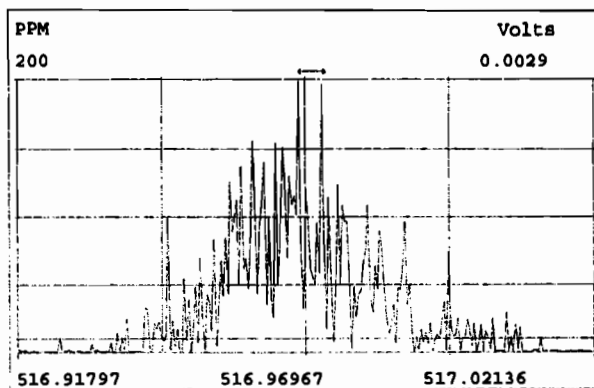
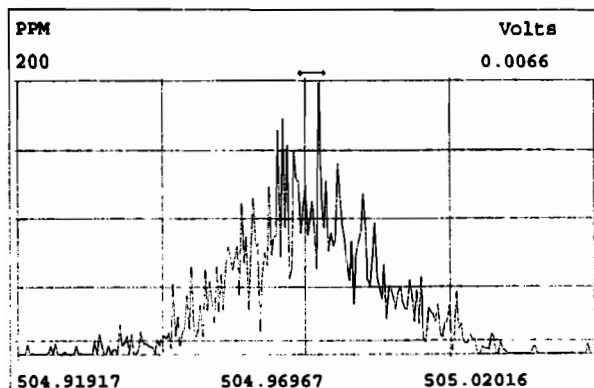
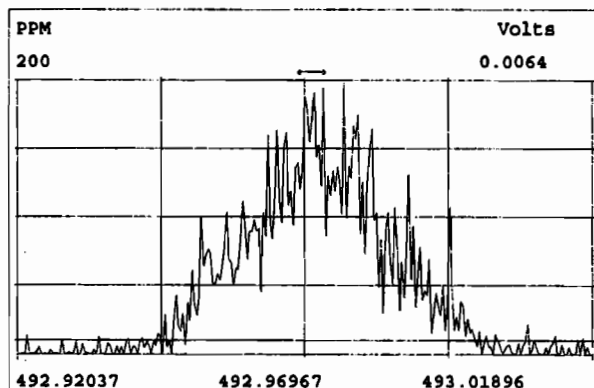
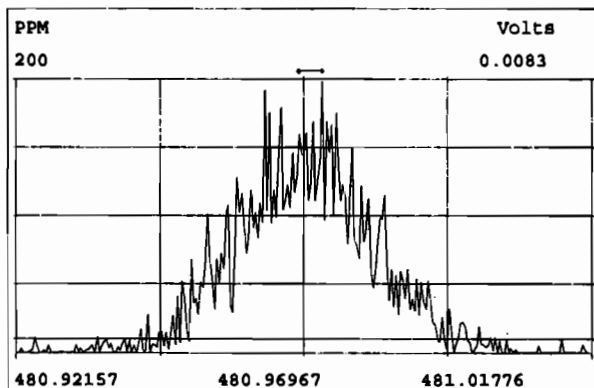
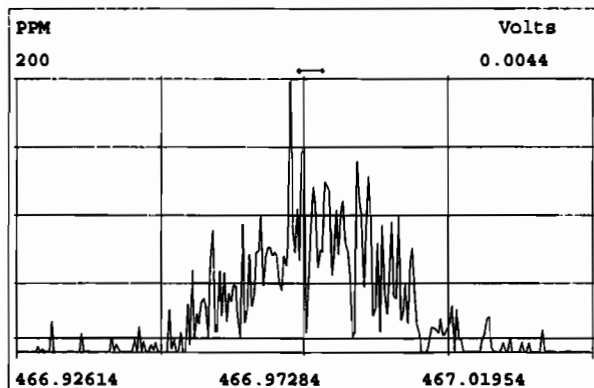
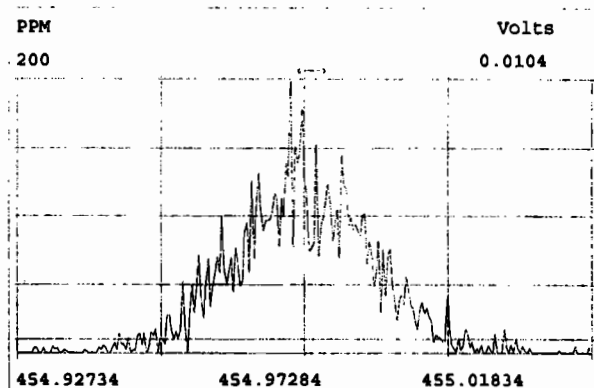
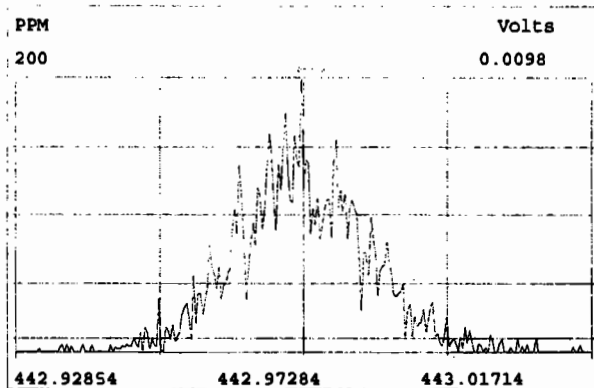
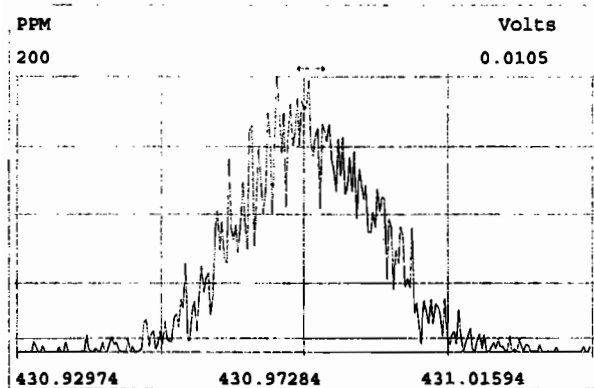
Peak Locate Examination: 4-JAN-2020:03:47 File:RES\_CHECK

Experiment:OCDD\_DB5 Function:4 Reference:PFK



Peak Locate Examination: 4-JAN-2020:03:48 File:RES\_CHECK

Experiment:OCDD\_DB5 Function:5 Reference:PPK



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST191106K1-1

**Reviewed By:** GT 11/07/19  
*Initials & Date*

**End Calibration ID:** NA

	<u>Beg.</u>	<u>End</u>
<b>Ion abundance within QC limits?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
<b>Concentrations within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>TCDD/TCDF Valleys &lt;25%</b>	<input type="checkbox"/> NA	<input type="checkbox"/>
<b>First and last eluters present?</b>	<input type="checkbox"/> NA	<input type="checkbox"/>
<b>Retention Times within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Verification Std. named correctly?</b> (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Forms signed and dated?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Correct ICAL referenced?</b>	<u>GPB</u>	<u>↓</u>
<b>Run Log:</b>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
- Samples within 12 hour clock?	<input type="checkbox"/> (Y)	<input type="checkbox"/> N
- Bottle position verified?	<u>GPB</u>	

**Mass resolution  $\geq$**

5k    6-8K    8K    10K  
 1614   1699   429   1613/1668/8280

**Intergrated peaks display correctly?**

**GC Break <20%**

**8280 CS1 End Standard:**

**- Ratios within limits, S/N <2.5:1, CS1 within 12 hours**

**Comments:**

(A) END RES CHECK HAD PFK DRAIN THAT RESULTED IN SOME:  
 - COLUMN BLEEDS  
 - MASSES DID NOT CENTROID      GPB 11/07/19

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-1.qld

Last Altered: Thursday, November 07, 2019 09:17:59 Pacific Standard Time

Printed: Thursday, November 07, 2019 09:19:24 Pacific Standard Time

GRB 11/07/19

C7 11/08/19

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-04-19.mdb 05 Nov 2019 14:32:48

Calibration: U:\VG11.PRO\CurveDB\cb1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191106K1\_1, Date: 06-Nov-2019, Time: 12:53:19, ID: ST191106K1-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	6.83e5	3.13	NO	1.02	1.000	15.68	15.68	1.001	1.001	NO	51.53	103.5	0.00873	51.53
2	2 PCB-2	7.20e5	3.05	NO	1.01	1.000	18.12	18.11	0.988	0.988	NO	50.28	101	0.00860	50.28
3	3 PCB-3	7.13e5	3.01	NO	1.01	1.000	18.35	18.35	1.001	1.001	NO	49.89	99.8	0.00862	49.89
4	4 PCB-4/10	9.53e5	1.52	NO	1.28	1.000	19.77	19.78	1.004	1.004	NO	97.33	97.3	0.135	97.33
5	5 PCB-7/9	1.14e6	1.59	NO	0.976	1.000	21.59	21.57	1.003	1.002	NO	99.61	99.6	0.119	99.61
6	6 PCB-6	5.95e5	1.58	NO	1.02	1.000	22.24	22.25	1.033	1.034	NO	50.03	100	0.114	50.03
7	7 PCB-5/8	1.19e6	1.56	NO	1.01	1.000	22.65	22.65	1.052	1.052	NO	100.3	100	0.115	100.3
8	8 PCB-14	6.42e5	1.61	NO	1.03	1.000	23.80	23.80	0.952	0.952	NO	50.56	101	0.113	50.56
9	9 PCB-11	6.84e5	1.56	NO	1.10	1.000	25.03	25.03	1.001	1.001	NO	50.79	102	0.106	50.79
10	10 PCB-12/13	1.29e6	1.57	NO	1.04	1.000	25.46	25.40	1.018	1.016	NO	101.2	101	0.112	101.2
11	11 PCB-15	6.51e5	1.53	NO	1.03	1.000	25.76	25.75	1.030	1.030	NO	51.50	103	0.113	51.50
12	12 PCB-19	4.14e5	0.98	NO	0.934	1.000	23.99	23.97	1.001	1.001	NO	50.58	101	0.0266	50.58
13	13 PCB-30	6.49e5	0.99	NO	1.48	1.000	24.91	24.90	1.040	1.040	NO	50.03	100	0.0168	50.03
14	14 PCB-18	4.30e5	0.97	NO	0.693	1.000	25.66	25.68	0.951	0.952	NO	51.65	103	0.0264	51.65
15	15 PCB-17	4.10e5	1.02	NO	0.667	1.000	25.84	25.85	0.958	0.959	NO	51.17	102	0.0275	51.17
16	16 PCB-24/27	1.15e6	1.00	NO	0.915	1.000	26.46	26.44	0.981	0.980	NO	104.5	105	0.0200	104.5
17	17 PCB-16/32	9.71e5	0.97	NO	0.792	1.000	26.99	26.99	1.001	1.001	NO	102.1	102	0.0231	102.1
18	18 PCB-34	5.61e5	1.08	NO	0.987	1.000	27.80	27.80	0.959	0.959	NO	51.91	104	0.0385	51.91
19	19 PCB-23	5.00e5	1.06	NO	0.974	1.000	27.90	27.89	0.962	0.962	NO	46.81	93.6	0.0391	46.81
20	20 PCB-29	5.19e5	1.06	NO	0.953	1.000	28.13	28.15	0.970	0.971	NO	49.66	99.3	0.0399	49.66
21	21 PCB-26	5.34e5	1.06	NO	1.00	1.000	28.38	28.38	0.979	0.979	NO	48.71	97.4	0.0380	48.71
22	22 PCB-25	5.47e5	1.06	NO	0.978	1.000	28.53	28.55	0.984	0.985	NO	51.02	102	0.0389	51.02
23	23 PCB-31	5.95e5	1.05	NO	1.12	1.000	28.92	28.90	0.998	0.997	NO	48.35	96.7	0.0339	48.35
24	24 PCB-28	5.73e5	1.07	NO	1.11	1.000	29.01	29.01	1.001	1.001	NO	47.32	94.6	0.0344	47.32
25	25 PCB-20/21/33	1.63e6	1.07	NO	1.00	1.000	29.65	29.64	1.023	1.022	NO	148.6	99.0	0.0379	148.6
26	26 PCB-22	5.79e5	1.07	NO	1.03	1.000	30.14	30.11	1.039	1.039	NO	51.12	102	0.0368	51.12
27	27 PCB-36	5.88e5	1.05	NO	1.18	1.000	30.70	30.74	0.930	0.932	NO	48.83	97.7	0.0353	48.83
28	28 PCB-39	5.34e5	1.06	NO	1.08	1.000	31.19	31.22	0.945	0.946	NO	48.14	96.3	0.0383	48.14
29	29 PCB-38	5.55e5	1.07	NO	1.13	1.000	32.00	32.02	0.970	0.971	NO	48.09	96.2	0.0368	48.09
30	30 PCB-35	5.69e5	1.07	NO	1.13	1.000	32.55	32.56	0.987	0.987	NO	49.12	98.2	0.0367	49.12
31	31 PCB-37	5.43e5	1.06	NO	1.11	1.000	33.03	33.01	1.001	1.001	NO	47.97	95.9	0.0375	47.97

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-1.qld

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Name: 191106K1\_1, Date: 06-Nov-2019, Time: 12:53:19, ID: ST191106K1-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 PCB-54	4.97e5	0.73	NO	0.996	1.000	27.84	27.84	1.001	1.001	NO	49.27	98.5	0.0212	49.27
33	33 PCB-50	4.01e5	0.73	NO	0.781	1.000	29.08	29.05	1.045	1.044	NO	50.65	101	0.0271	50.65
34	34 PCB-53	3.75e5	0.74	NO	0.955	1.000	29.71	29.72	0.943	0.944	NO	47.55	95.1	0.0278	47.55
35	35 PCB-51	4.04e5	0.72	NO	1.02	1.000	30.06	30.07	0.955	0.955	NO	47.84	95.7	0.0259	47.84
36	36 PCB-45	3.27e5	0.75	NO	0.808	1.000	30.49	30.52	0.969	0.969	NO	49.03	98.1	0.0328	49.03
37	37 PCB-46	3.11e5	0.73	NO	0.754	1.000	31.01	31.02	0.985	0.985	NO	50.00	100	0.0352	50.00
38	38 PCB-52/69	9.13e5	0.74	NO	1.09	1.000	31.52	31.52	1.001	1.001	NO	101.4	101	0.0243	101.4
39	39 PCB-73	5.15e5	0.74	NO	1.29	1.000	31.65	31.63	1.005	1.005	NO	48.45	96.9	0.0206	48.45
40	40 PCB-43/49	7.64e5	0.75	NO	0.940	1.000	31.81	31.82	1.010	1.011	NO	98.47	98.5	0.0282	98.47
41	41 PCB-47	3.83e5	0.73	NO	0.869	1.000	32.03	32.02	1.001	1.001	NO	50.88	102	0.0292	50.88
42	42 PCB-48/75	8.82e5	0.73	NO	1.02	1.000	32.14	32.14	1.004	1.004	NO	99.35	99.3	0.0248	99.35
43	43 PCB-65	4.93e5	0.74	NO	1.11	1.000	32.41	32.42	1.013	1.013	NO	51.32	103	0.0229	51.32
44	44 PCB-62	4.54e5	0.73	NO	1.07	1.000	32.52	32.53	1.016	1.016	NO	49.17	98.3	0.0238	49.17
45	45 PCB-44	3.27e5	0.73	NO	0.761	1.000	32.86	32.84	1.027	1.026	NO	49.61	99.2	0.0334	49.61
46	46 PCB-42/59	8.24e5	0.75	NO	0.960	1.000	33.08	33.08	1.033	1.034	NO	98.96	99.0	0.0265	98.96
47	47 PCB-41/64/71/72	1.87e6	0.73	NO	1.08	1.000	33.70	33.68	1.053	1.052	NO	199.7	99.9	0.0235	199.7
48	48 PCB-68	4.79e5	0.75	NO	1.11	1.000	33.99	33.96	1.062	1.061	NO	49.78	99.6	0.0229	49.78
49	49 PCB-40	2.38e5	0.78	NO	0.577	1.000	34.21	34.18	1.069	1.068	NO	47.68	95.4	0.0440	47.68
50	50 PCB-57	5.13e5	0.72	NO	1.05	1.000	34.53	34.56	0.969	0.969	NO	52.45	105	0.0229	52.45
51	51 PCB-67	4.72e5	0.73	NO	0.993	1.000	34.86	34.87	0.978	0.978	NO	50.93	102	0.0241	50.93
52	52 PCB-58	5.24e5	0.74	NO	1.11	1.000	34.99	34.98	0.981	0.981	NO	50.52	101	0.0216	50.52
53	53 PCB-63	4.66e5	0.72	NO	0.962	1.000	35.14	35.15	0.986	0.986	NO	51.98	104	0.0249	51.98
54	54 PCB-74	5.18e5	0.74	NO	1.07	1.000	35.45	35.45	0.994	0.994	NO	52.08	104	0.0225	52.08
55	55 PCB-61/70	9.24e5	0.74	NO	0.986	1.000	35.67	35.58	1.000	0.998	NO	100.5	101	0.0243	100.5
56	56 PCB-76/66	9.77e5	0.75	NO	1.07	1.000	35.83	35.86	1.005	1.006	NO	98.24	98.2	0.0225	98.24
57	57 PCB-80	5.16e5	0.74	NO	1.08	1.000	36.10	36.10	1.001	1.001	NO	49.05	98.1	0.0212	49.05
58	58 PCB-55	5.16e5	0.73	NO	1.07	1.000	36.42	36.44	1.010	1.010	NO	49.84	99.7	0.0216	49.84
59	59 PCB-56/60	9.23e5	0.74	NO	0.934	1.000	36.96	36.94	1.024	1.024	NO	101.8	102	0.0246	101.8
60	60 PCB-79	5.21e5	0.76	NO	1.04	1.000	38.06	38.05	1.055	1.055	NO	51.37	103	0.0220	51.37
61	61 PCB-78	5.03e5	0.74	NO	1.03	1.000	38.76	38.76	0.987	0.987	NO	49.39	98.8	0.0232	49.39
62	62 PCB-81	4.50e5	0.74	NO	0.933	1.000	39.30	39.32	1.000	1.001	NO	48.83	97.7	0.0257	48.83
63	63 PCB-77	4.95e5	0.75	NO	1.03	1.000	39.93	39.93	1.000	1.000	NO	50.35	101	0.0239	50.35
64	64 PCB-104	4.74e5	1.53	NO	0.995	1.000	32.70	32.69	1.001	1.001	NO	53.53	107	0.0207	53.53
65	65 PCB-96	4.69e5	1.57	NO	0.996	1.000	34.02	34.00	1.041	1.040	NO	52.91	106	0.0207	52.91

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-1.qld

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Name: 191106K1\_1, Date: 06-Nov-2019, Time: 12:53:19, ID: ST191106K1-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
66	66 PCB-103	3.61e5	1.60	NO	0.774	1.000	34.59	34.57	1.059	1.058	NO	52.42	105	0.0266	52.42
67	67 PCB-100	3.67e5	1.58	NO	0.778	1.000	34.97	34.93	1.070	1.069	NO	53.10	106	0.0265	53.10
68	68 PCB-94	2.89e5	1.52	NO	0.773	1.000	35.43	35.43	0.985	0.986	NO	56.40	113	0.0360	56.40
69	69 PCB-95/98/102	1.09e6	1.51	NO	1.01	1.000	35.90	35.91	0.999	0.999	NO	162.5	108	0.0274	162.5
70	70 PCB-93	2.60e5	1.60	NO	0.841	1.000	36.03	36.04	1.002	1.003	NO	46.56	93.1	0.0331	46.56
71	71 PCB-88/91	6.37e5	1.58	NO	0.890	1.000	36.38	36.38	1.012	1.012	NO	107.9	108	0.0313	107.9
72	72 PCB-121	4.70e5	1.66	NO	1.39	1.000	36.50	36.49	1.015	1.015	NO	51.05	102	0.0201	51.05
73	73 PCB-84/92	6.19e5	1.52	NO	0.879	1.000	37.33	37.33	0.990	0.990	NO	110.1	110	0.0327	110.1
74	74 PCB-89	3.38e5	1.51	NO	0.959	1.000	37.51	37.51	0.995	0.995	NO	55.03	110	0.0299	55.03
75	75 PCB-90/101	6.60e5	1.55	NO	0.944	1.000	37.72	37.72	1.000	1.001	NO	109.2	109	0.0304	109.2
76	76 PCB-113	4.49e5	1.49	NO	1.23	1.000	37.97	37.96	1.007	1.007	NO	57.00	114	0.0233	57.00
77	77 PCB-99	3.86e5	1.54	NO	1.12	1.000	38.07	38.07	1.010	1.010	NO	53.84	108	0.0256	53.84
78	78 PCB-119	4.59e5	1.52	NO	1.47	1.000	38.53	38.54	0.987	0.987	NO	52.90	106	0.0218	52.90
79	79 PCB-108/112	7.69e5	1.54	NO	1.25	1.000	38.69	38.71	0.991	0.991	NO	104.3	104	0.0256	104.3
80	80 PCB-83	4.80e5	1.53	NO	1.55	1.000	38.84	38.87	0.995	0.996	NO	52.61	105	0.0207	52.61
81	81 PCB-97	3.42e5	1.58	NO	1.07	1.000	39.08	39.08	1.001	1.001	NO	53.86	108	0.0298	53.86
82	82 PCB-86	3.08e5	1.50	NO	0.996	1.000	39.23	39.23	1.005	1.005	NO	52.54	105	0.0321	52.54
83	83 PCB-87/117/125	1.27e6	1.53	NO	1.33	1.000	39.34	39.36	1.008	1.008	NO	161.1	107	0.0240	161.1
84	84 PCB-111/115	9.99e5	1.52	NO	1.60	1.000	39.51	39.52	1.012	1.012	NO	105.8	106	0.0200	105.8
85	85 PCB-85/116	7.74e5	1.52	NO	1.22	1.000	39.63	39.63	1.015	1.015	NO	107.9	108	0.0263	107.9
86	86 PCB-120	5.12e5	1.52	NO	1.68	1.000	39.90	39.90	1.022	1.022	NO	51.64	103	0.0190	51.64
87	87 PCB-110	4.65e5	1.53	NO	1.49	1.000	40.04	40.04	1.026	1.026	NO	53.07	106	0.0215	53.07
88	88 PCB-82	2.90e5	1.54	NO	0.674	1.000	40.68	40.68	0.976	0.975	NO	56.23	112	0.0365	56.23
89	89 PCB-124	4.65e5	1.58	NO	1.16	1.000	41.40	41.40	0.993	0.993	NO	52.30	105	0.0212	52.30
90	90 PCB-107/109	9.35e5	1.57	NO	1.17	1.000	41.55	41.55	0.996	0.996	NO	104.9	105	0.0211	104.9
91	91 PCB-123	4.27e5	1.57	NO	1.04	1.000	41.72	41.72	1.000	1.000	NO	53.67	107	0.0236	53.67
92	92 PCB-106/118	8.90e5	1.56	NO	1.07	1.000	41.92	41.94	1.001	1.001	NO	105.5	105	0.0224	105.5
93	93 PCB-114	4.22e5	1.60	NO	1.16	1.000	42.58	42.58	1.000	1.000	NO	48.85	97.7	0.0336	48.85
94	94 PCB-122	3.78e5	1.60	NO	0.973	1.000	42.71	42.73	1.003	1.004	NO	52.27	105	0.0401	52.27
95	95 PCB-105	4.11e5	1.58	NO	1.10	1.000	43.47	43.47	1.000	1.000	NO	48.72	97.4	0.0343	48.72
96	96 PCB-127	4.39e5	1.59	NO	1.11	1.000	43.83	43.83	1.000	1.000	NO	49.40	98.8	0.0323	49.40
97	97 PCB-126	4.49e5	1.57	NO	1.21	1.000	45.78	45.78	1.000	1.000	NO	50.09	100	0.0340	50.09
98	98 PCB-155	3.17e5	1.30	NO	0.874	1.000	37.23	37.25	1.000	1.001	NO	55.47	111	0.0181	55.47
99	99 PCB-150	3.36e5	1.34	NO	0.881	1.000	38.56	38.56	1.036	1.036	NO	58.35	117	0.0180	58.35

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-1.qld

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Name: 191106K1\_1, Date: 06-Nov-2019, Time: 12:53:19, ID: ST191106K1-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
100	1... PCB-152	3.78e5	1.29	NO	1.00	1.000	39.07	39.04	1.050	1.049	NO	57.68	115	0.0157	57.68
101	1... PCB-145	3.76e5	1.30	NO	1.00	1.000	39.53	39.51	1.062	1.062	NO	57.64	115	0.0158	57.64
102	1... PCB-136	3.22e5	1.28	NO	0.843	1.000	39.86	39.84	1.071	1.071	NO	58.38	117	0.0188	58.38
103	1... PCB-148	2.52e5	1.31	NO	0.693	1.000	40.00	39.95	1.075	1.074	NO	55.74	111	0.0228	55.74
104	1... PCB-154	2.70e5	1.32	NO	0.724	1.000	40.50	40.45	1.088	1.087	NO	57.19	114	0.0219	57.19
105	1... PCB-151	2.35e5	1.32	NO	0.632	1.000	41.16	41.12	1.106	1.105	NO	57.01	114	0.0250	57.01
106	1... PCB-135	2.64e5	1.26	NO	0.716	1.000	41.34	41.35	1.111	1.111	NO	56.46	113	0.0221	56.46
107	1... PCB-144	2.47e5	1.33	NO	0.667	1.000	41.44	41.46	1.114	1.114	NO	56.70	113	0.0237	56.70
108	1... PCB-147	2.44e5	1.35	NO	0.661	1.000	41.59	41.59	1.118	1.118	NO	56.49	113	0.0239	56.49
109	1... PCB-139/149	5.56e5	1.27	NO	0.738	1.000	41.93	41.87	1.127	1.125	NO	115.3	115	0.0214	115.3
110	1... PCB-140	2.33e5	1.26	NO	0.627	1.000	42.11	42.06	1.132	1.130	NO	56.92	114	0.0252	56.92
111	1... PCB-134/143	5.63e5	1.19	NO	0.733	1.000	42.53	42.51	0.975	0.974	NO	105.0	105	0.0626	105.0
112	1... PCB-131/133	6.10e5	1.19	NO	0.790	1.000	42.81	42.83	0.982	0.982	NO	105.7	106	0.0581	105.7
113	1... PCB-142	2.69e5	1.21	NO	0.708	1.000	42.97	42.98	0.985	0.985	NO	51.96	104	0.0649	51.96
114	1... PCB-146/165	7.25e5	1.19	NO	0.959	1.000	43.22	43.22	0.991	0.991	NO	103.4	103	0.0479	103.4
115	1... PCB-132/161	7.17e5	1.21	NO	0.974	1.000	43.46	43.45	0.996	0.996	NO	100.7	101	0.0471	100.7
116	1... PCB-153	3.76e5	1.24	NO	1.01	1.000	43.64	43.64	1.000	1.000	NO	50.76	102	0.0454	50.76
117	1... PCB-168	3.79e5	1.22	NO	1.02	1.000	43.87	43.87	1.006	1.006	NO	50.83	102	0.0451	50.83
118	1... PCB-141	3.02e5	1.24	NO	0.967	1.000	44.40	44.40	1.000	1.000	NO	50.24	100	0.0563	50.24
119	1... PCB-137	3.02e5	1.22	NO	0.987	1.000	44.78	44.80	1.009	1.009	NO	49.32	98.6	0.0551	49.32
120	1... PCB-130	2.66e5	1.26	NO	0.840	1.000	44.89	44.91	1.012	1.012	NO	50.94	102	0.0648	50.94
121	1... PCB-138/163/164	1.18e6	1.20	NO	1.23	1.000	45.29	45.31	1.001	1.001	NO	152.0	101	0.0433	152.0
122	1... PCB-158/160	7.51e5	1.20	NO	1.18	1.000	45.54	45.54	1.006	1.006	NO	100.9	101	0.0451	100.9
123	1... PCB-129	2.60e5	1.19	NO	0.819	1.000	45.79	45.78	1.012	1.012	NO	50.15	100	0.0649	50.15
124	1... PCB-166	4.22e5	1.21	NO	1.07	1.000	46.26	46.26	0.993	0.993	NO	52.65	105	0.0442	52.65
125	1... PCB-159	4.26e5	1.21	NO	1.12	1.000	46.60	46.62	1.000	1.001	NO	50.77	102	0.0422	50.77
126	1... PCB-128/162	6.76e5	1.19	NO	0.851	1.000	46.89	46.90	1.007	1.007	NO	105.9	106	0.0555	105.9
127	1... PCB-167	4.20e5	1.23	NO	1.04	1.000	47.30	47.32	1.000	1.001	NO	49.85	99.7	0.0412	49.85
128	1... PCB-156	4.41e5	1.22	NO	1.06	1.000	48.64	48.64	1.000	1.000	NO	50.96	102	0.0402	50.96
129	1... PCB-157	4.08e5	1.24	NO	0.978	1.000	48.93	48.91	1.001	1.000	NO	51.82	104	0.0449	51.82
130	1... PCB-169	4.27e5	1.24	NO	1.11	1.000	51.18	51.18	1.000	1.000	NO	49.87	99.7	0.0432	49.87
131	1... PCB-188	4.33e5	1.06	NO	1.19	1.000	43.28	43.26	1.001	1.000	NO	52.43	105	0.0377	52.43
132	1... PCB-184	4.20e5	1.04	NO	1.17	1.000	43.73	43.72	1.011	1.011	NO	52.04	104	0.0386	52.04
133	1... PCB-179	4.23e5	1.02	NO	1.18	1.000	44.54	44.53	1.030	1.030	NO	52.04	104	0.0383	52.04

75-125%



Dataset: U:\VG11.PRO\Results\191106K1\191106K1-1.qld

Last Altered: Thursday, November 07, 2019 09:17:59 Pacific Standard Time

Printed: Thursday, November 07, 2019 09:19:24 Pacific Standard Time

Name: 191106K1\_1, Date: 06-Nov-2019, Time: 12:53:19, ID: ST191106K1-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
134	1... PCB-176	4.27e5	1.04	NO	1.16	1.000	45.01	45.01	1.041	1.041	NO	53.18	106	0.0388	53.18
135	1... PCB-186	4.59e5	1.05	NO	1.22	1.000	45.63	45.63	1.055	1.055	NO	54.54	109	0.0370	54.54
136	1... PCB-178	3.05e5	1.01	NO	0.830	1.000	46.14	46.14	1.067	1.067	NO	53.08	106	0.0542	53.08
137	1... PCB-175	3.16e5	1.03	NO	0.849	1.000	46.50	46.50	1.075	1.075	NO	53.90	108	0.0530	53.90
138	1... PCB-182/187	7.00e5	1.04	NO	0.960	1.000	46.70	46.69	1.080	1.080	NO	105.4	105	0.0469	105.4
139	1... PCB-183	3.57e5	1.01	NO	0.957	1.000	47.03	47.01	1.088	1.087	NO	53.92	108	0.0471	53.92
140	1... PCB-185	3.30e5	1.04	NO	1.32	1.000	47.70	47.69	0.955	0.955	NO	52.75	105	0.0501	52.75
141	1... PCB-174	3.12e5	1.02	NO	1.22	1.000	48.07	48.06	0.962	0.962	NO	53.93	108	0.0543	53.93
142	1... PCB-181	3.66e5	1.05	NO	1.41	1.000	48.17	48.17	0.964	0.964	NO	54.59	109	0.0468	54.59
143	1... PCB-177	3.05e5	1.02	NO	1.24	1.000	48.35	48.34	0.968	0.968	NO	51.83	104	0.0533	51.83
144	1... PCB-171	3.14e5	1.02	NO	1.24	1.000	48.64	48.64	0.974	0.974	NO	53.35	107	0.0533	53.35
145	1... PCB-173	2.91e5	1.02	NO	1.14	1.000	49.08	49.08	0.983	0.983	NO	53.74	107	0.0580	53.74
146	1... PCB-172	3.19e5	1.06	NO	1.31	1.000	49.57	49.55	0.992	0.992	NO	51.47	103	0.0506	51.47
147	1... PCB-192	4.11e5	1.05	NO	1.70	1.000	49.76	49.74	0.996	0.996	NO	50.95	102	0.0389	50.95
148	1... PCB-180	3.29e5	1.06	NO	1.32	1.000	49.97	49.97	1.000	1.000	NO	52.64	105	0.0501	52.64
149	1... PCB-193	3.79e5	1.01	NO	1.54	1.000	50.20	50.18	1.005	1.005	NO	51.93	104	0.0430	51.93
150	1... PCB-191	3.86e5	1.03	NO	1.57	1.000	50.44	50.44	1.010	1.010	NO	51.78	104	0.0420	51.78
151	1... PCB-170	2.69e5	0.99	NO	1.36	1.000	51.62	51.62	1.000	1.000	NO	50.72	101	0.0585	50.72
152	1... PCB-190	3.64e5	1.02	NO	1.84	1.000	51.80	51.83	1.004	1.004	NO	50.72	101	0.0432	50.72
153	1... PCB-189	3.80e5	1.04	NO	1.33	1.000	53.31	53.30	1.000	1.000	NO	52.90	106	0.0375	52.90
154	1... PCB-202	3.33e5	0.88	NO	1.02	1.000	48.87	48.85	1.001	1.000	NO	53.67	107	0.0199	53.67
155	1... PCB-201	2.98e5	0.89	NO	0.915	1.000	49.36	49.36	1.011	1.011	NO	53.65	107	0.0222	53.65
156	1... PCB-204	3.19e5	0.89	NO	0.979	1.000	49.51	49.51	1.014	1.014	NO	53.72	107	0.0208	53.72
157	1... PCB-197	3.23e5	0.90	NO	0.979	1.000	49.83	49.84	1.020	1.021	NO	54.40	109	0.0208	54.40
158	1... PCB-200	3.02e5	0.92	NO	0.954	1.000	50.78	50.76	1.040	1.040	NO	52.25	105	0.0213	52.25
159	1... PCB-198	2.18e5	0.90	NO	0.748	1.000	52.30	52.30	1.071	1.071	NO	48.03	96.1	0.0272	48.03
160	1... PCB-199	2.25e5	0.93	NO	0.706	1.000	52.41	52.43	1.073	1.074	NO	52.43	105	0.0288	52.43
161	1... PCB-196/203	4.66e5	0.90	NO	0.785	1.000	52.87	52.72	1.083	1.080	NO	97.99	98.0	0.0259	97.99
162	1... PCB-195	2.97e5	0.90	NO	1.03	1.000	53.98	53.99	0.984	0.984	NO	48.97	97.9	0.0238	48.97
163	1... PCB-194	3.34e5	0.89	NO	1.16	1.000	54.90	54.90	1.000	1.000	NO	49.33	98.7	0.0213	49.33
164	1... PCB-205	4.07e5	0.90	NO	1.40	1.000	55.17	55.18	1.005	1.005	NO	49.54	99.1	0.0176	49.54
165	1... PCB-208	3.35e5	1.33	NO	0.934	1.000	54.14	54.14	1.000	1.000	NO	50.80	102	0.0259	50.80
166	1... PCB-207	3.39e5	1.32	NO	0.912	1.000	54.46	54.48	1.006	1.007	NO	52.62	105	0.0265	52.62
167	1... PCB-206	2.63e5	1.31	NO	0.987	1.000	56.44	56.44	1.000	1.000	NO	49.69	99.4	0.0314	49.69

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-1.qld

Last Altered: Thursday, November 07, 2019 09:17:59 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:19:24 Pacific Standard Time

Name: 191106K1\_1, Date: 06-Nov-2019, Time: 12:53:19, ID: ST191106K1-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
168	1... PCB-209	2.93e5	1.17	NO	0.943	1.000	57.64	57.65	1.000	1.000	NO	50.56	101.76-125%	0.00497	50.56
169	1... 13C-PCB-1	1.30e6	3.30	NO	1.08	1.000	15.67	15.67	0.609	0.609	NO	92.58	50-145%	0.0765	
170	1... 13C-PCB-3	1.42e6	3.38	NO	1.09	1.000	18.33	18.34	0.712	0.713	NO	99.97	100	0.0756	
171	1... 13C-PCB-4	7.68e5	1.59	NO	0.640	1.000	19.69	19.69	0.765	0.765	NO	92.20	92.2	0.0428	
172	1... 13C-PCB-9	1.17e6	1.58	NO	0.995	1.000	21.53	21.53	0.837	0.837	NO	90.21	90.2	0.0275	
173	1... 13C-PCB-11	1.23e6	1.58	NO	0.971	1.000	25.01	25.01	0.972	0.972	NO	97.17	97.2	0.0282	
174	1... 13C-PCB-19	8.76e5	1.01	NO	0.637	1.000	23.95	23.95	0.931	0.931	NO	105.6	106	0.567	
175	1... 13C-PCB-32	1.20e6	1.00	NO	0.910	1.000	26.97	26.97	1.048	1.048	NO	101.3	101	0.397	
176	1... 13C-PCB-28	1.10e6	1.00	NO	1.07	1.000	28.97	28.99	1.003	1.004	NO	95.66	95.7	0.388	
177	1... 13C-PCB-37	1.02e6	1.01	NO	0.959	1.000	32.97	32.99	1.141	1.142	NO	99.50	99.5	0.432	
178	1... 13C-PCB-54	1.01e6	0.78	NO	1.10	1.000	27.83	27.82	0.754	0.754	NO	95.64	95.6	0.108	
179	1... 13C-PCB-52	8.25e5	0.76	NO	0.844	1.000	31.48	31.49	0.853	0.853	NO	101.2	101	0.141	
180	1... 13C-PCB-47	8.67e5	0.76	NO	0.893	1.000	32.00	32.01	0.867	0.867	NO	100.6	101	0.133	
181	1... 13C-PCB-70	9.33e5	0.76	NO	1.01	1.000	35.63	35.65	0.965	0.966	NO	95.91	95.9	0.118	
182	1... 13C-PCB-80	9.70e5	0.77	NO	1.05	1.000	36.06	36.08	0.977	0.977	NO	96.10	96.1	0.114	
183	1... 13C-PCB-81	9.86e5	0.74	NO	0.985	1.000	39.28	39.28	1.064	1.064	NO	103.8	104	0.121	
184	1... 13C-PCB-77	9.53e5	0.76	NO	0.958	1.000	39.89	39.92	1.080	1.081	NO	103.0	103	0.124	
185	1... 13C-PCB-104	8.90e5	1.55	NO	1.10	1.000	32.69	32.68	0.827	0.827	NO	98.87	98.9	0.0382	
186	1... 13C-PCB-95	6.64e5	1.61	NO	0.852	1.000	35.97	35.95	0.910	0.910	NO	94.91	94.9	0.0492	
187	1... 13C-PCB-101	6.40e5	1.61	NO	0.814	1.000	37.72	37.70	0.955	0.954	NO	95.90	95.9	0.0516	
188	1... 13C-PCB-97	5.90e5	1.58	NO	0.709	1.000	39.05	39.04	0.989	0.988	NO	101.3	101	0.0591	
189	1... 13C-PCB-123	7.64e5	1.61	NO	0.922	1.000	41.69	41.70	1.055	1.056	NO	101.0	101	0.0455	
190	1... 13C-PCB-118	7.89e5	1.58	NO	0.975	1.000	41.88	41.89	1.060	1.060	NO	98.56	98.6	0.0430	
191	1... 13C-PCB-114	7.44e5	1.57	NO	1.52	1.000	42.56	42.56	0.908	0.908	NO	86.92	86.9	0.0416	
192	1... 13C-PCB-105	7.66e5	1.56	NO	1.58	1.000	43.45	43.45	0.927	0.927	NO	85.94	85.9	0.0399	
193	1... 13C-PCB-127	8.02e5	1.58	NO	1.62	1.000	43.81	43.81	0.935	0.935	NO	87.81	87.8	0.0390	
194	1... 13C-PCB-126	7.39e5	1.55	NO	1.45	1.000	45.76	45.76	0.976	0.977	NO	90.83	90.8	0.0438	
195	1... 13C-PCB-155	6.53e5	1.34	NO	1.03	1.000	37.23	37.22	0.942	0.942	NO	77.59	77.6	0.0250	
196	1... 13C-PCB-153	7.31e5	1.27	NO	1.42	1.000	43.62	43.62	0.931	0.931	NO	91.21	91.2	0.0553	
197	1... 13C-PCB-141	6.21e5	1.26	NO	1.14	1.000	44.40	44.38	0.947	0.947	NO	96.49	96.5	0.0689	
198	1... 13C-PCB-138	6.32e5	1.25	NO	1.18	1.000	45.25	45.25	0.966	0.966	NO	95.12	95.1	0.0668	
199	1... 13C-PCB-159	7.50e5	1.28	NO	1.43	1.000	46.60	46.58	0.994	0.994	NO	92.97	93.0	0.0550	
200	2... 13C-PCB-167	8.09e5	1.22	NO	1.42	1.000	47.30	47.28	1.009	1.009	NO	100.9	101	0.0553	
201	2... 13C-PCB-156	8.20e5	1.27	NO	1.40	1.000	48.62	48.62	1.038	1.038	NO	104.2	104	0.0564	

Dataset: U:\VG11.PRO\Results\191106K1\191106K1-1.qld

Last Altered: Thursday, November 07, 2019 09:17:59 Pacific Standard Time

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Name: 191106K1\_1, Date: 06-Nov-2019, Time: 12:53:19, ID: ST191106K1-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R	RRT	Check RRT	Conc.	%Rec	DL	EMPC
202	2... 13C-PCB-157	8.05e5	1.24	NO	1.41	1.000	48.91	48.89	1.044	1.043	NO	101.6	102.50-145%	0.0560	
203	2... 13C-PCB-169	7.73e5	1.27	NO	1.35	1.000	51.18	51.16	1.092	1.092	NO	101.9	102	0.0585	
204	2... 13C-PCB-188	6.92e5	0.45	NO	1.46	1.000	43.22	43.24	0.926	0.927	NO	98.51	98.5	0.0412	
205	2... 13C-PCB-180	4.74e5	0.46	NO	0.932	1.000	49.93	49.95	1.070	1.070	NO	105.9	106	0.0646	
206	2... 13C-PCB-170	3.89e5	0.44	NO	0.796	1.000	51.60	51.60	1.106	1.106	NO	101.9	102	0.0756	
207	2... 13C-PCB-189	5.39e5	0.45	NO	1.09	1.000	53.28	53.28	1.142	1.142	NO	103.0	103	0.0552	
208	2... 13C-PCB-202	6.07e5	0.95	NO	1.45	1.000	48.83	48.83	1.046	1.046	NO	87.11	87.1	0.0376	
209	2... 13C-PCB-194	5.86e5	0.91	NO	0.714	1.000	54.90	54.89	0.995	0.995	NO	104.1	104	0.0425	
210	2... 13C-PCB-208	7.05e5	0.79	NO	0.896	1.000	54.14	54.13	0.982	0.981	NO	99.71	99.7	0.0375	
211	2... 13C-PCB-206	5.35e5	0.78	NO	0.653	1.000	56.42	56.42	1.023	1.023	NO	103.9	104	0.0516	
212	2... 13C-PCB-209	6.14e5	1.22	NO	0.806	1.000	57.65	57.64	1.045	1.045	NO	96.54	96.5	0.00948	
213	2... 13C-PCB-15	1.30e6	1.58	NO	1.00	1.000	25.74	25.73	1.000	0.000	NO	100.0	100	0.0274	
214	2... 13C-PCB-31	1.07e6	1.01	NO	1.00	1.000	28.90	28.88	1.000	0.000	NO	100.0	100	0.415	
215	2... 13C-PCB-60	9.65e5	0.74	NO	1.00	1.000	36.94	36.92	1.000	0.000	NO	100.0	100	0.119	
216	2... 13C-PCB-111	8.21e5	1.55	NO	1.00	1.000	39.51	39.51	1.000	0.000	NO	100.0	100	0.0420	
217	2... 13C-PCB-128	5.63e5	1.27	NO	1.00	1.000	46.86	46.86	1.000	0.000	NO	100.0	100	0.0788	
218	2... 13C-PCB-182	4.80e5	0.45	NO	1.00	1.000	46.69	46.67	0.000	0.000	NO	100.0	100	0.0602	
219	2... 13C-PCB-205	7.89e5	0.93	NO	1.00	1.000	55.16	55.16	1.000	0.000	NO	100.0	100	0.0303	
220	2... 13C-PCB-79	9.94e5	0.75	NO	1.03	1.000	38.05	38.03	1.031	1.030	NO	99.82	99.8 75-125%	0.115	
221	2... 13C-PCB-178	4.45e5	0.44	NO	0.875	1.000	46.12	46.12	0.988	0.988	NO	90.38	90.4	0.0596	
222	2... 13C-PCB-79	9.94e5	0.75	NO	1.05	1.000	38.01	38.03	0.967	0.968	NO	96.41	96.4	0.115	
223	2... 13C-PCB-178	4.45e5	0.44	NO	0.975	1.000	46.13	46.12	0.924	0.923	NO	96.31	96.3	0.0638	

Dataset: Untitled

Last Altered: Thursday, November 07, 2019 13:25:18 Pacific Standard Time

Printed: Thursday, November 07, 2019 13:25:35 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-04-19.mdb 05 Nov 2019 14:32:48  
Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

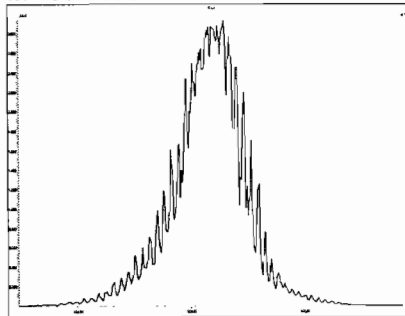
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2	191106K1_2	B9J0309-BS1 OPR 1	06-Nov-19	13:57:53
3	191106K1_3	B9J0215-BS1 OPR 10	06-Nov-19	14:58:32
4	191106K1_4	B9K0010-BS1 OPR 5	06-Nov-19	15:59:24
5	191106K1_5	SOLVENT BLANK	06-Nov-19	17:00:14
6	191106K1_6	B9J0309-BLK1 Method Blank 1	06-Nov-19	18:01:14
7	191106K1_7	B9J0215-BLK1 Method Blank 10	06-Nov-19	19:03:14
8	191106K1_8	B9K0010-BLK1 Method Blank 5	06-Nov-19	20:04:48
9	191106K1_9	1903588-17 A4-FPS-202-0-12-0919-MDNR-S ...	06-Nov-19	21:05:28
10	191106K1_10	1903588-19 A4-FPS-202-24-34-0919-MDNR-...	06-Nov-19	22:07:33
11	191106K1_11	1903588-20 A4-FPS-206-0-12-0919-MDNR-S ...	06-Nov-19	23:09:26

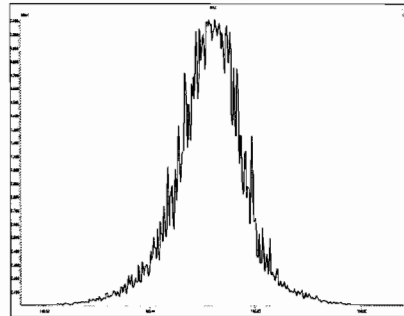
File: Experiment: PCB\_ZB1.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, November 06, 2019 12:48:45 Pacific Standard Time

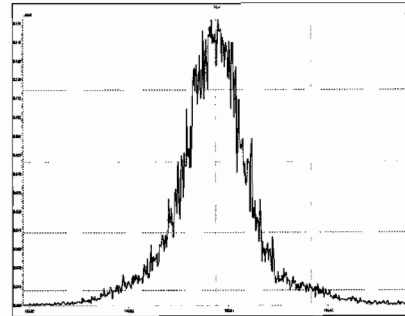
M 168.9888 R 11314



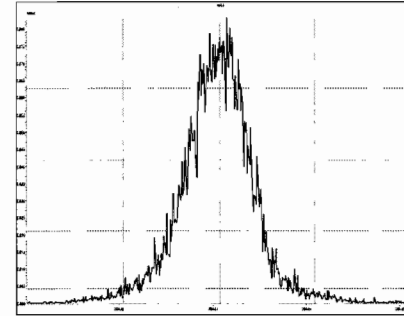
M 180.9888 R 11790



M 192.9888 R 10459



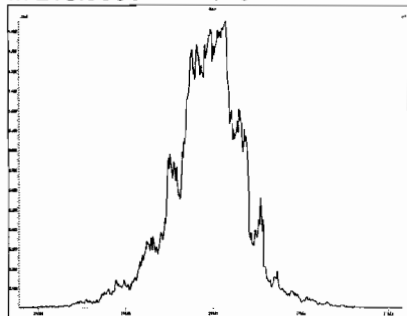
M 204.9888 R 13158



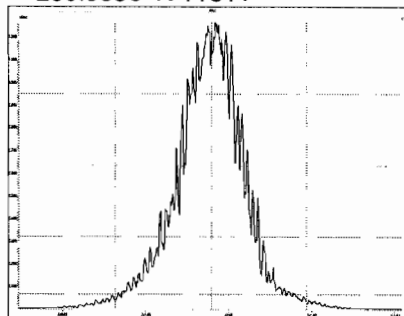
File: Experiment: PCB\_ZB1.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, November 06, 2019 12:49:18 Pacific Standard Time

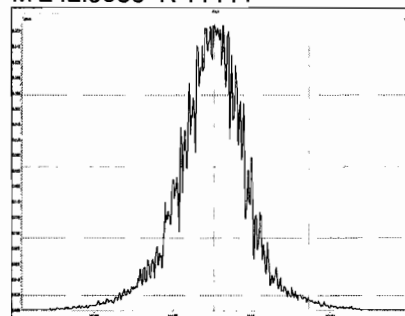
M 218.9856 R 11015



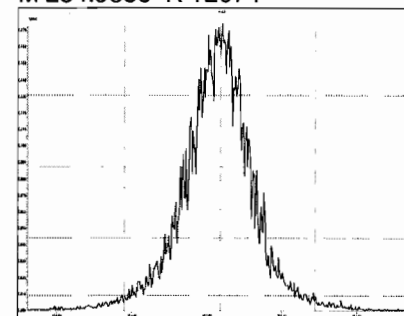
M 230.9856 R 11311



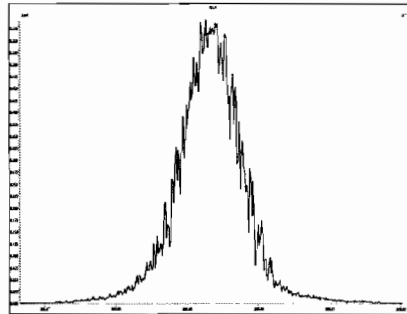
M 242.9856 R 11111



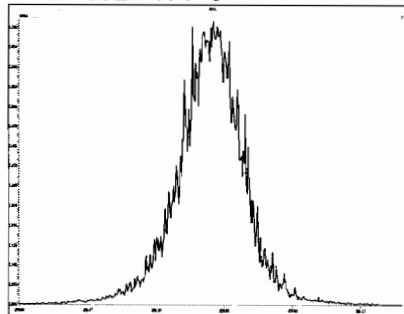
M 254.9856 R 12074



M 268.9824 R 12959



M 280.9824 R 12372



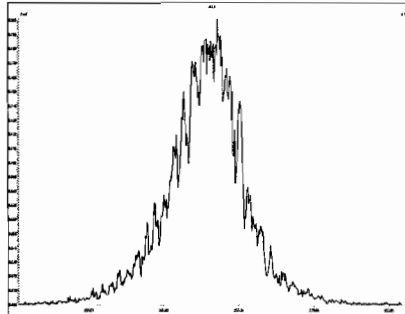
Experiment Calibration Report

MassLynx 4.1 SCN815

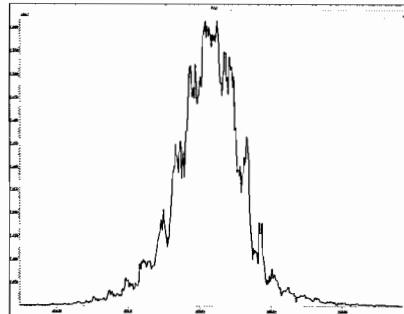
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Printed: Wednesday, November 06, 2019 12:50:14 Pacific Standard Time

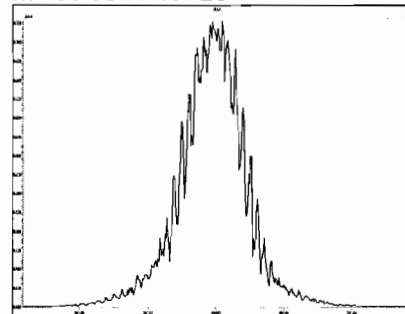
M 254.9856 R 11060



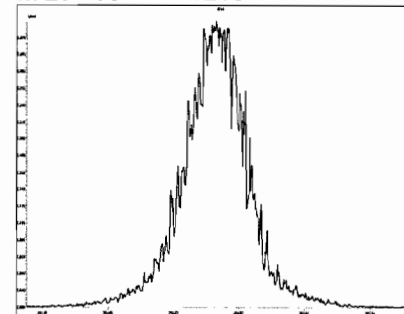
M 268.9824 R 12019



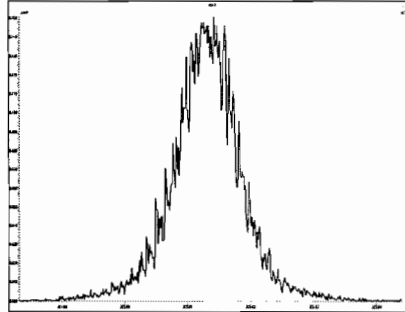
M 280.9824 R 12374



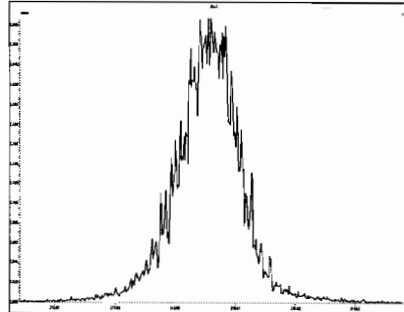
M 292.9824 R 12137



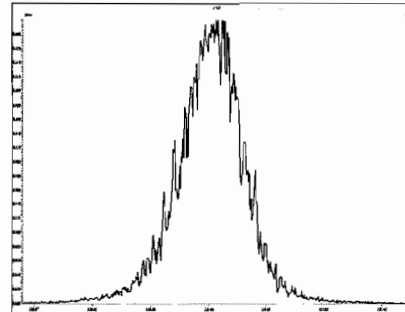
M 304.9824 R 12314



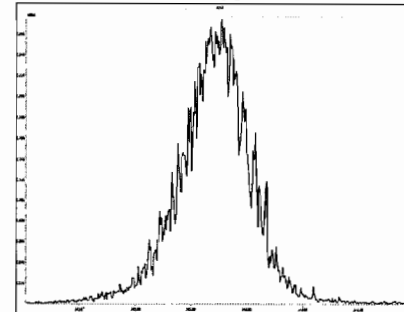
M 318.9792 R 13295



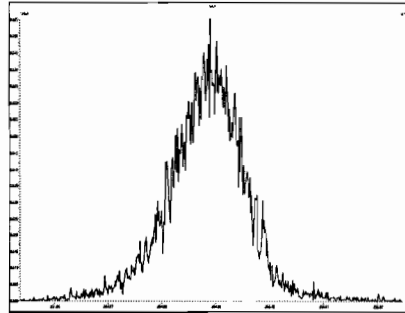
M 330.9792 R 13090



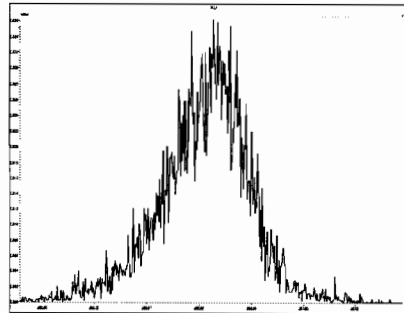
M 342.9792 R 11681



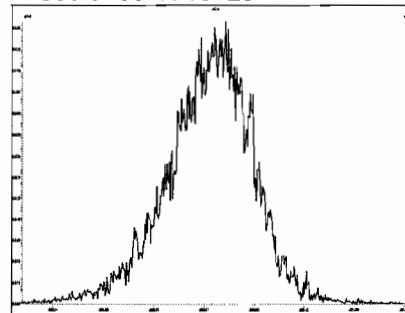
M 354.9792 R 11522



M 366.9792 R 11013



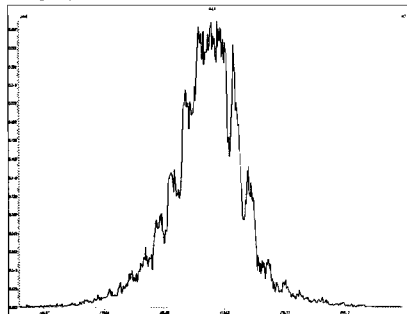
M 380.9760 R 10120



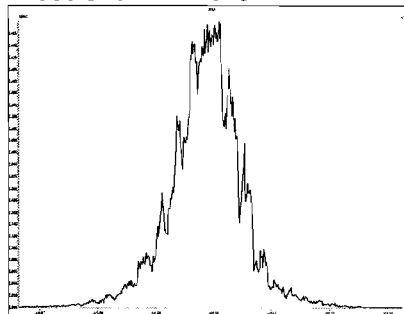
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Printed: Wednesday, November 06, 2019 12:50:54 Pacific Standard Time

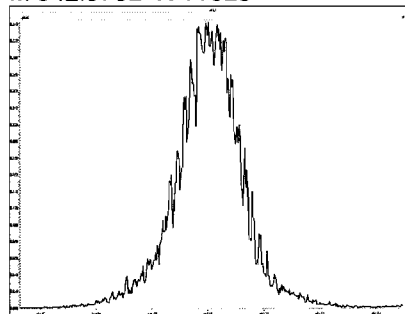
M 318.9792 R 11063



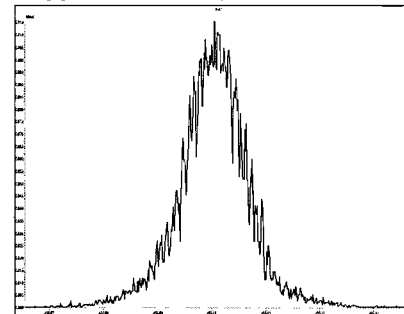
M 330.9792 R 12018



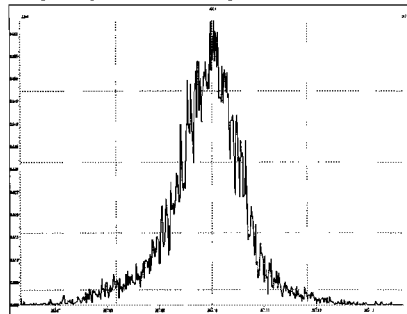
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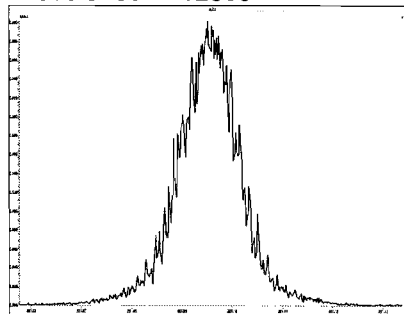
M 354.9792 R 12821



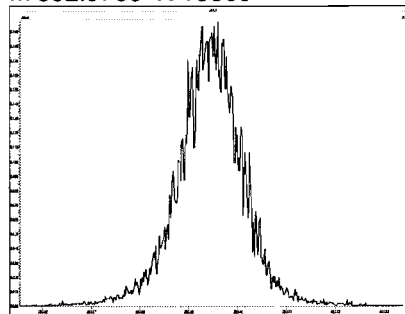
M 366.9792 R 13156



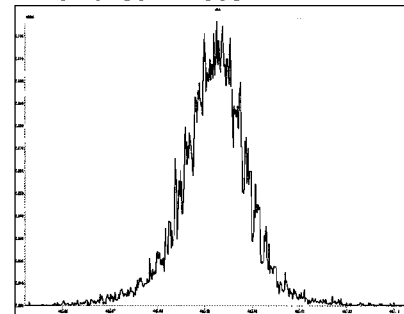
M 380.9760 R 12560



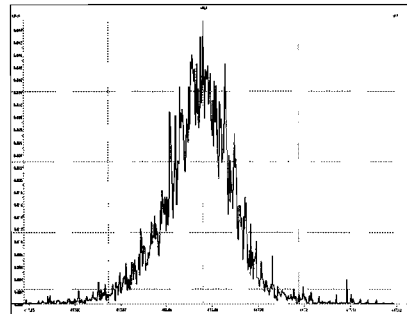
M 392.9760 R 13369



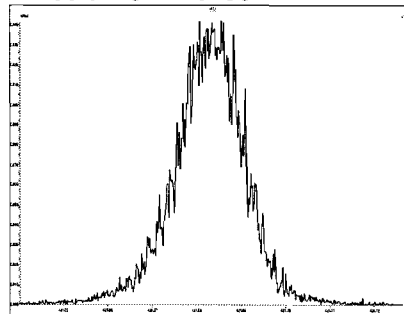
M 404.9760 R 13367



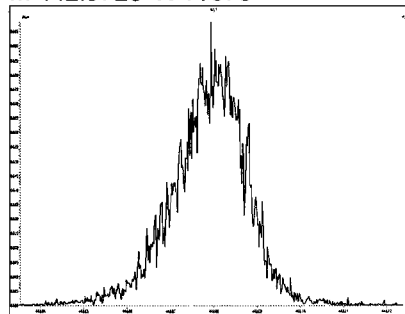
M 416.9760 R 13371



M 430.9728 R 13298



M 442.9728 R 11573





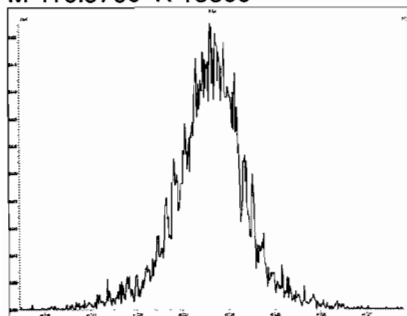
Experiment Calibration Report

MassLynx 4.1 SCN815

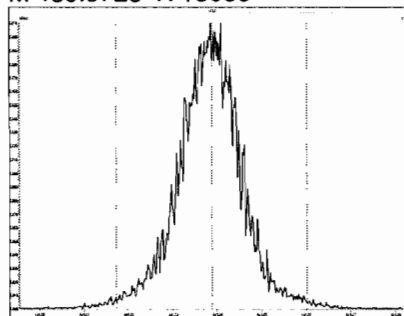
File: Experiment: PCB\_ZB1.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, November 06, 2019 12:51:38 Pacific Standard Time

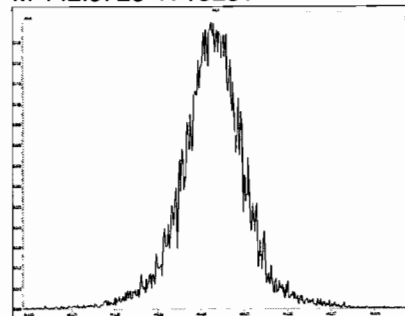
M 416.9760 R 13366



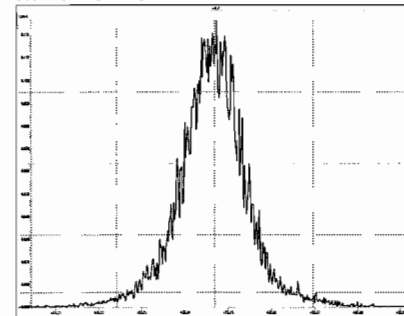
M 430.9728 R 13089



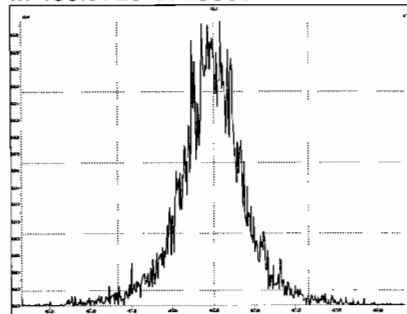
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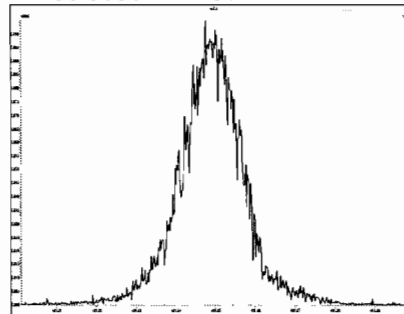
M 454.9728 R 13018



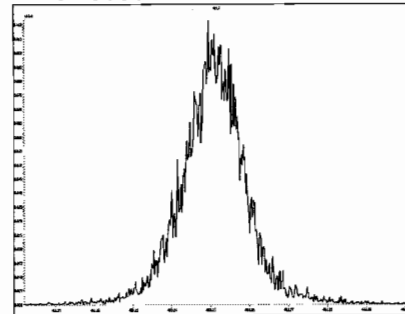
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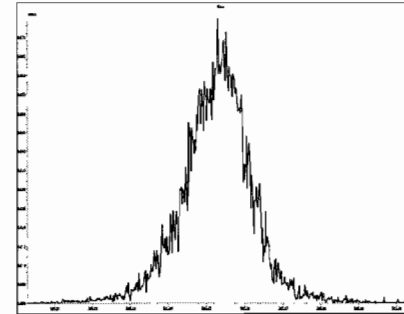
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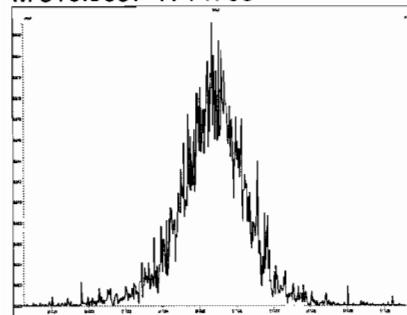
M 492.9696 R 13300



M 504.9696 R 13021



M 516.9697 R 14705



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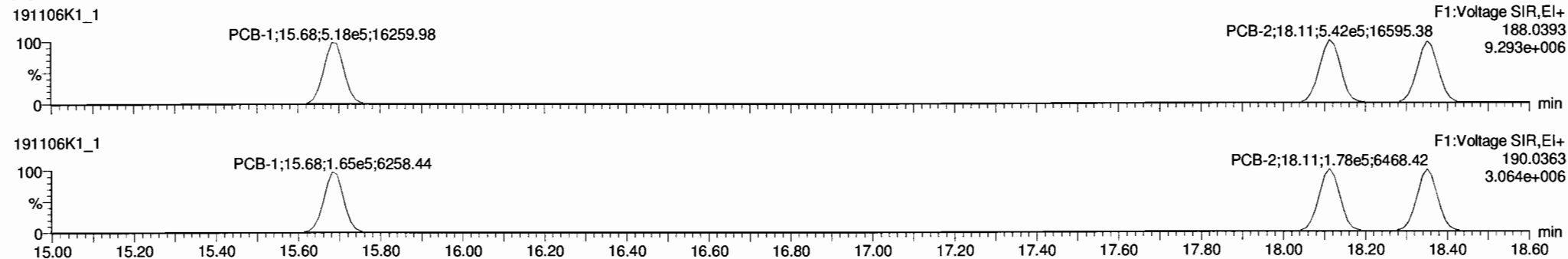
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time

Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

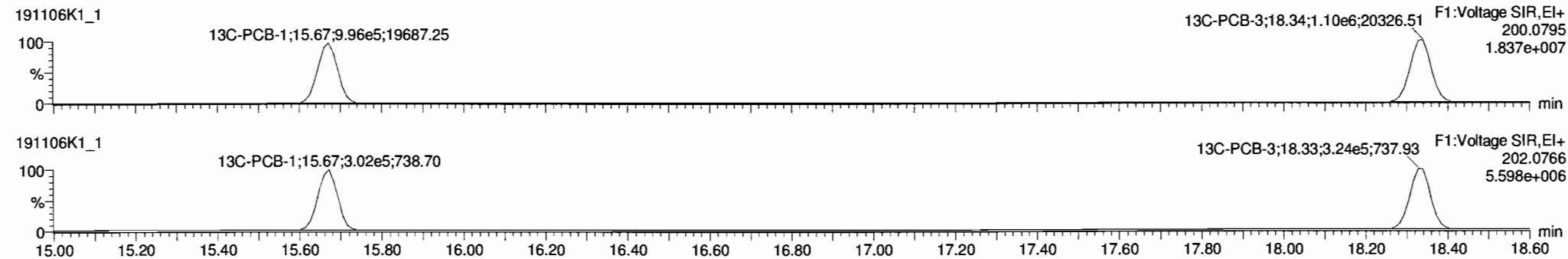
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Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191106K1\_1, Date: 06-Nov-2019, Time: 12:53:19, ID: ST191106K1-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

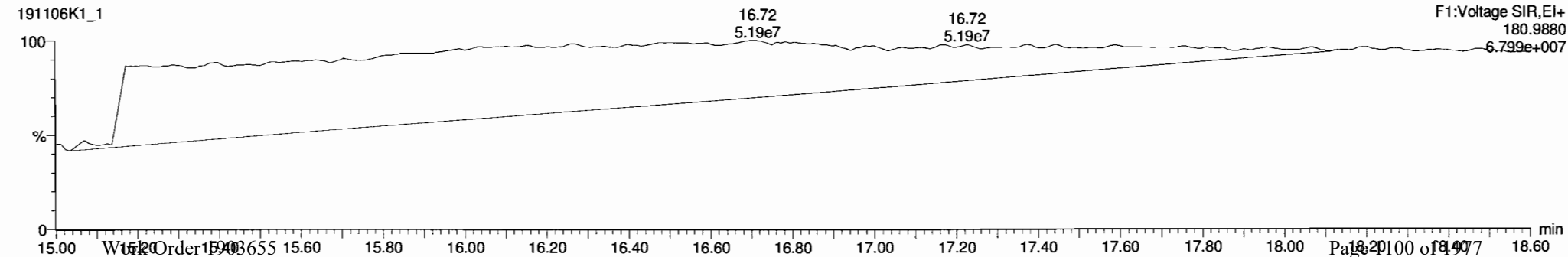
**PCB-1**



**13C-PCB-1**



**PFK1**

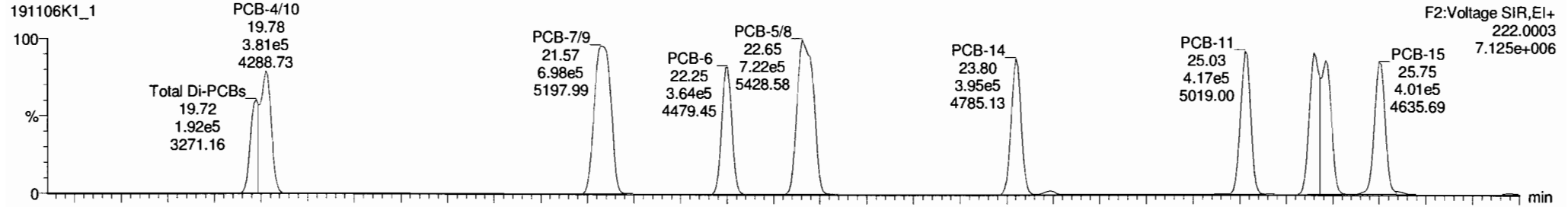


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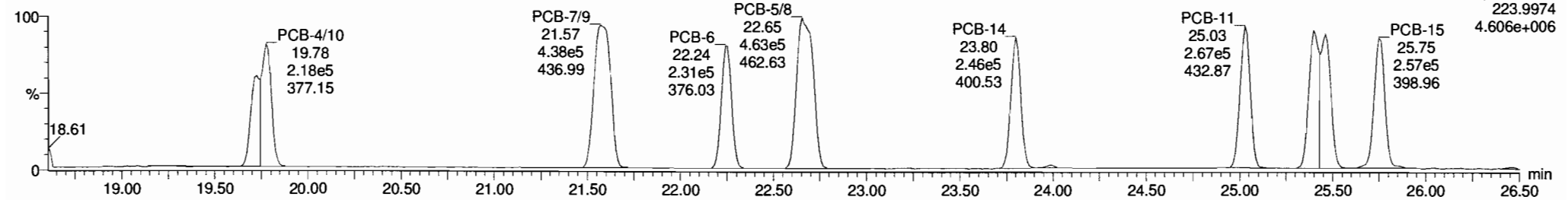
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 Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

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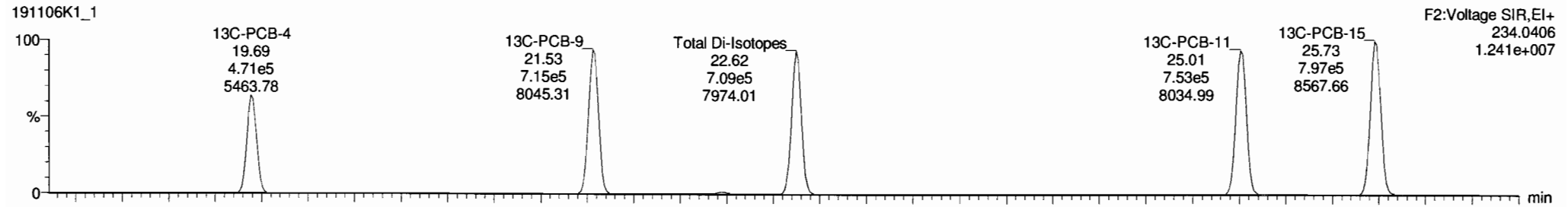
**PCB-4/10**



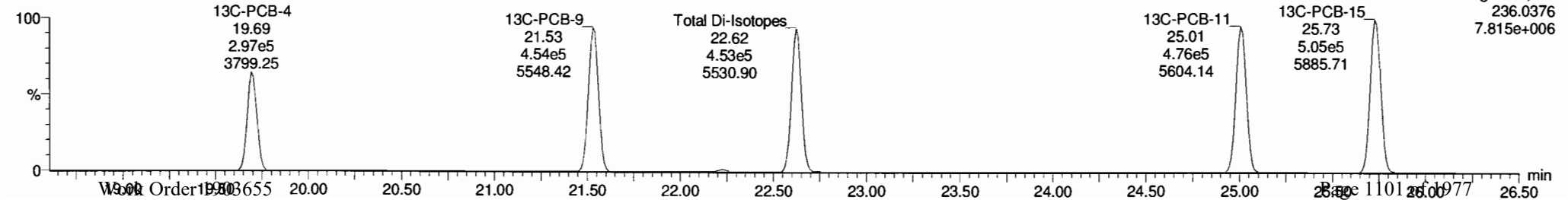
**PCB-4/10**

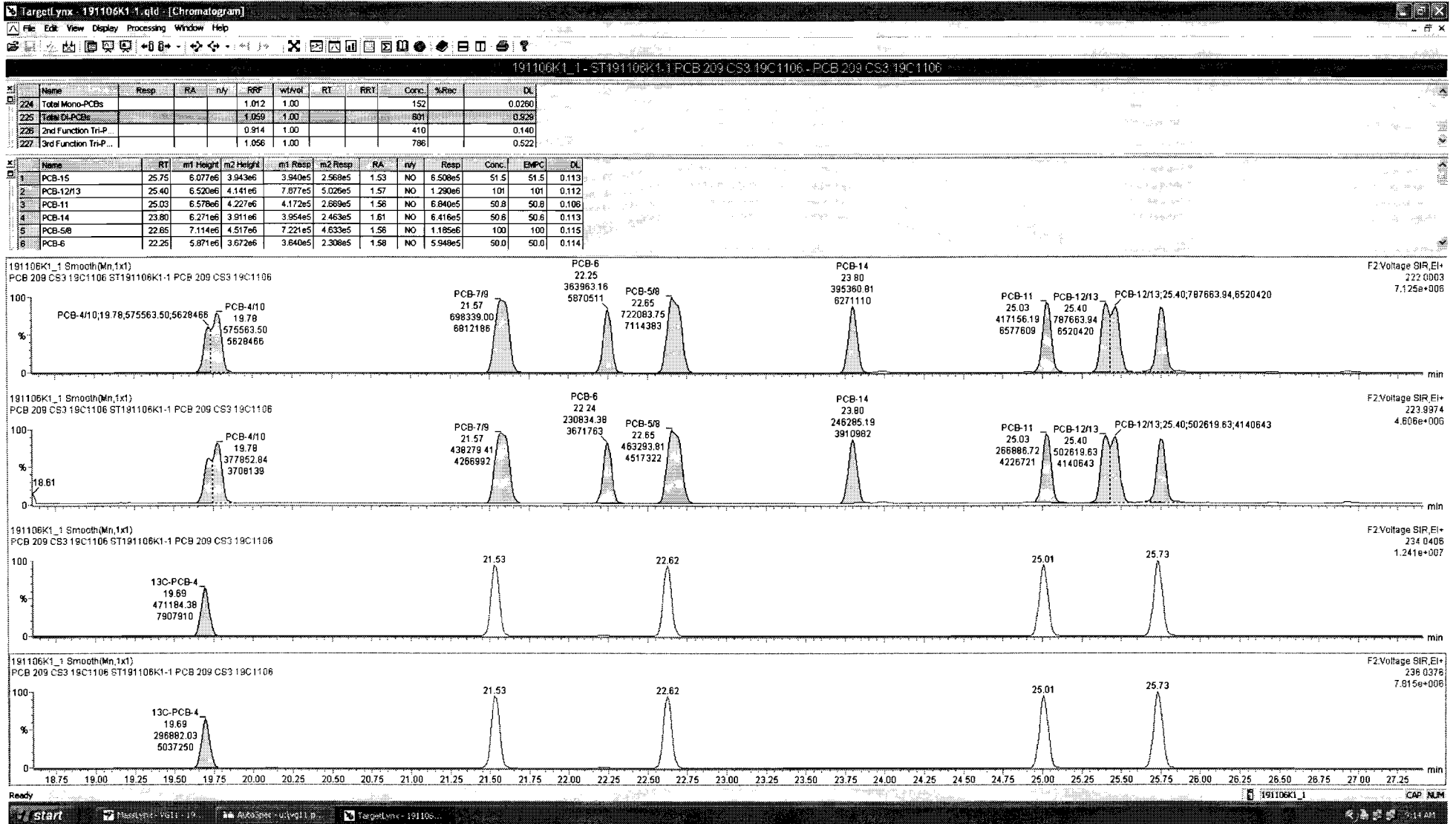


**13C-PCB-4**



**13C-PCB-4**





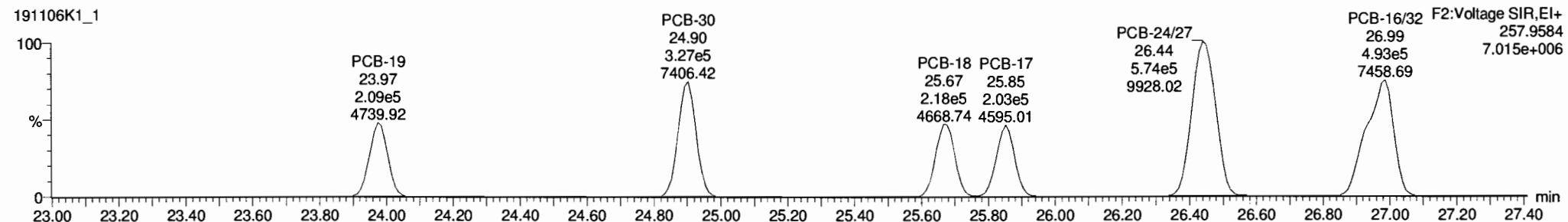
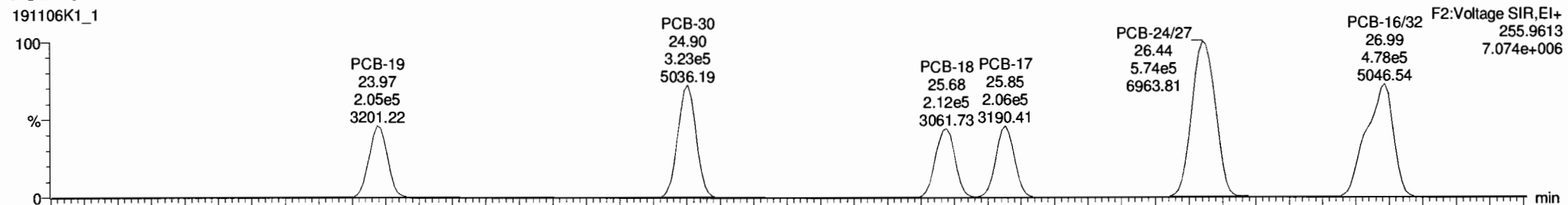
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Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time

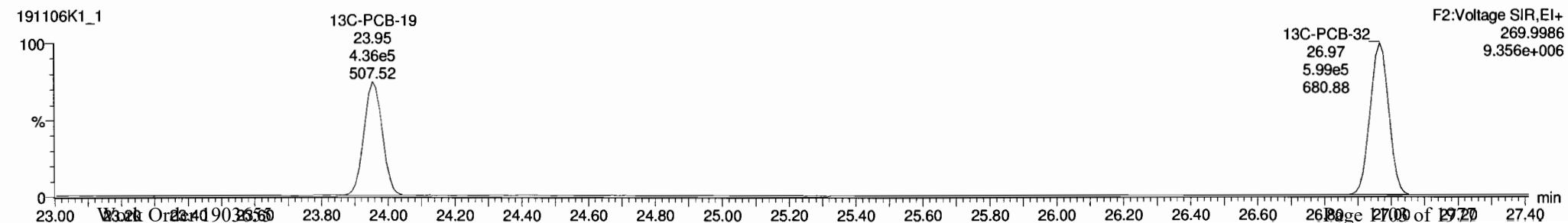
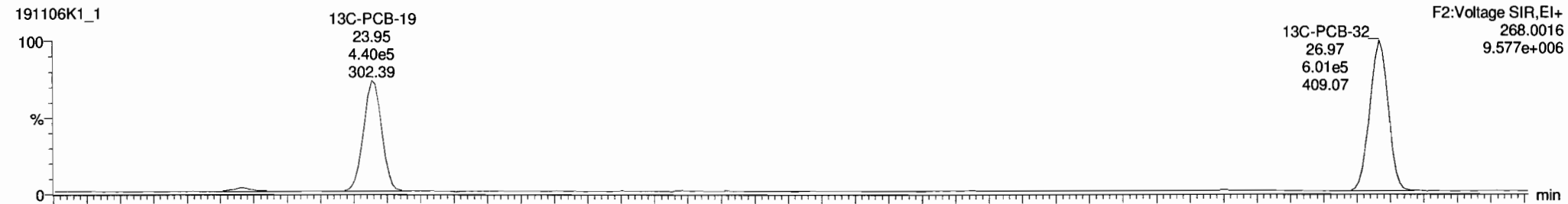
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Name: 191106K1\_1, Date: 06-Nov-2019, Time: 12:53:19, ID: ST191106K1-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-19**



**13C-PCB-19**

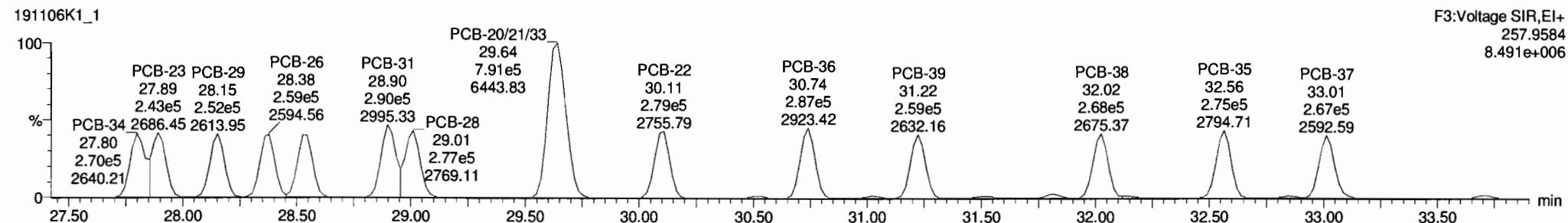
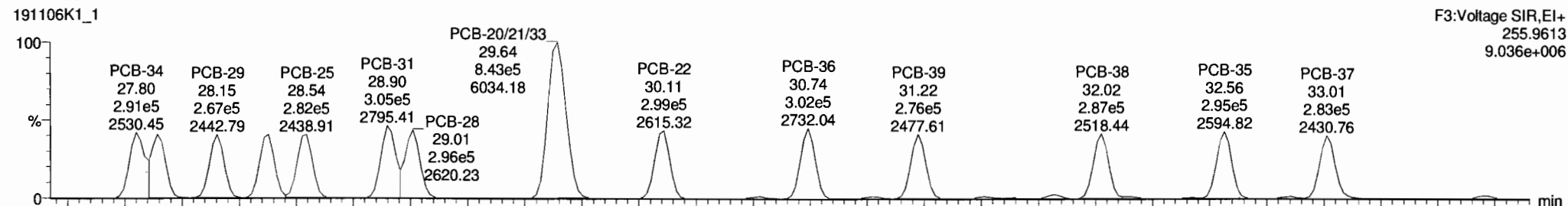


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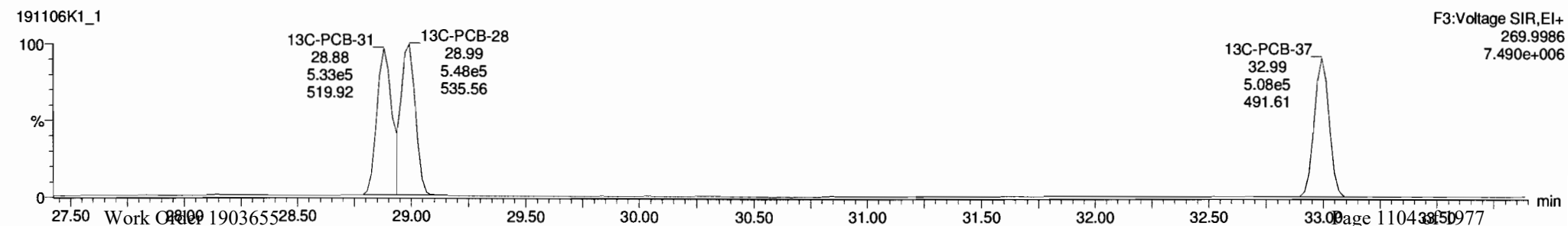
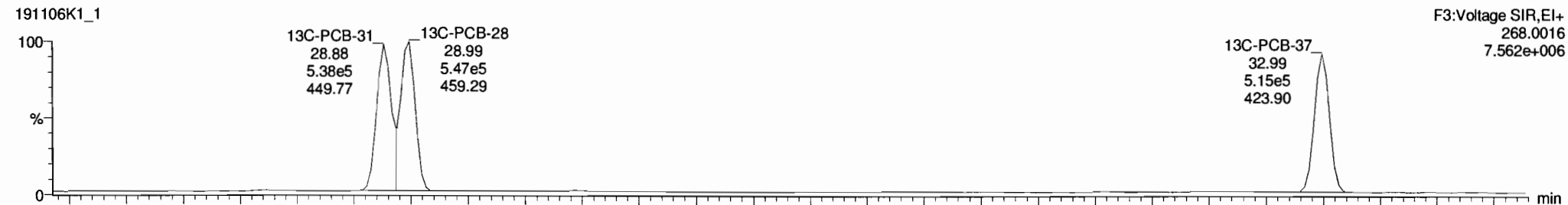
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 Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

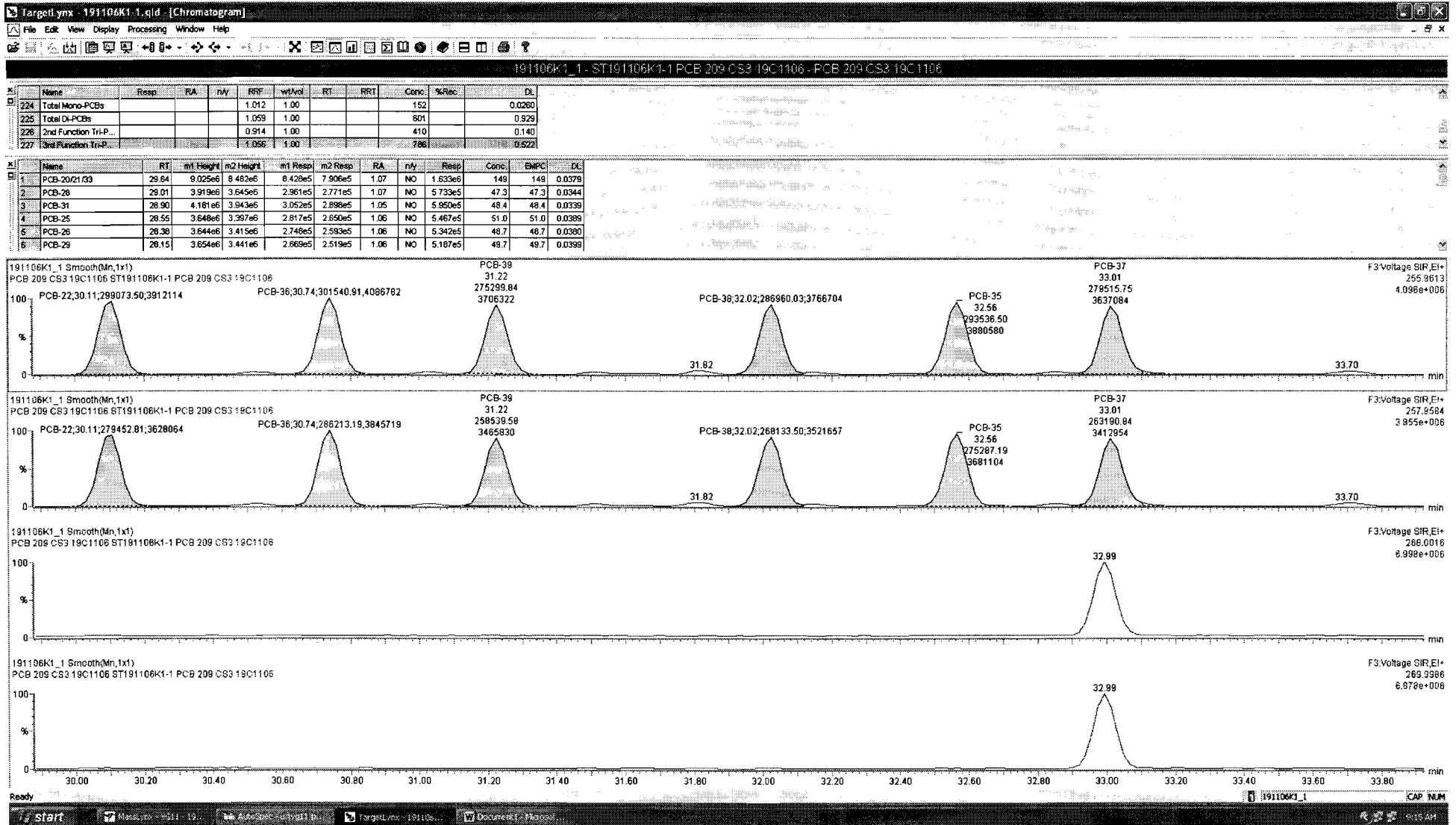
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**PCB-34**



**13C-PCB-28**





Dataset: Untitled

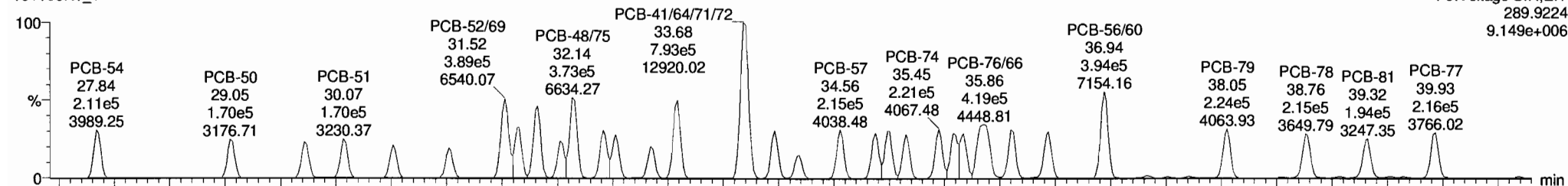
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Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

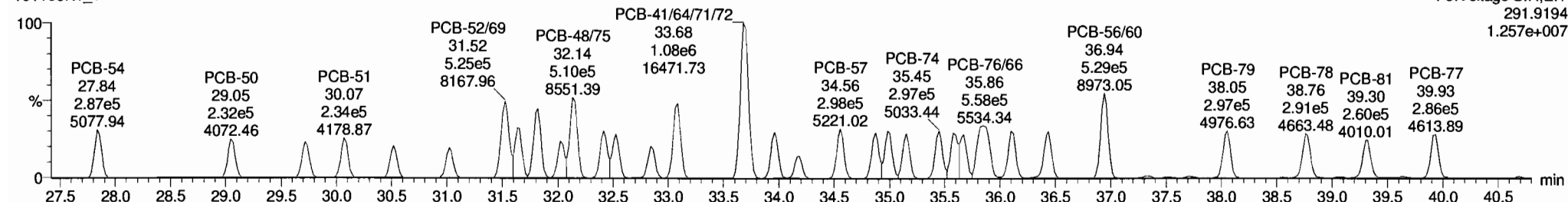
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**PCB-54**

191106K1\_1



191106K1\_1

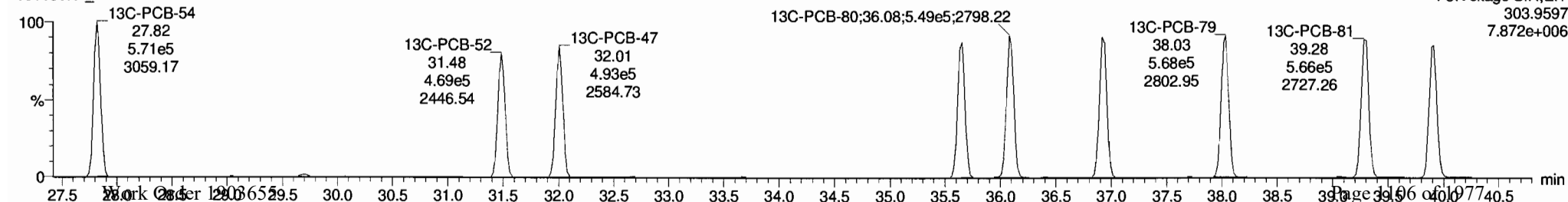


**13C-PCB-54**

191106K1\_1



191106K1\_1



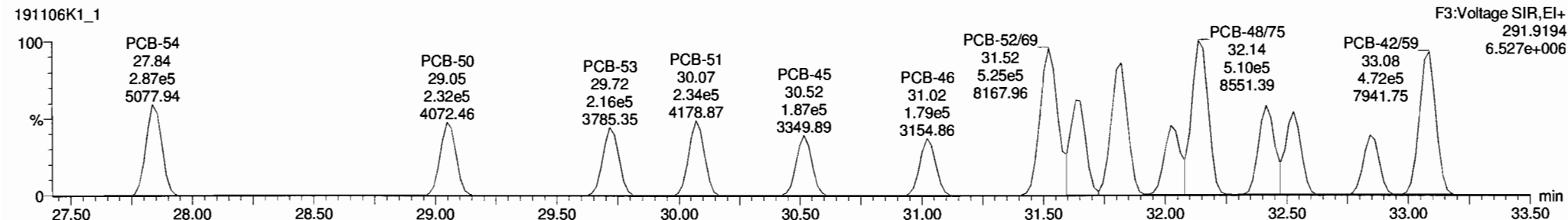
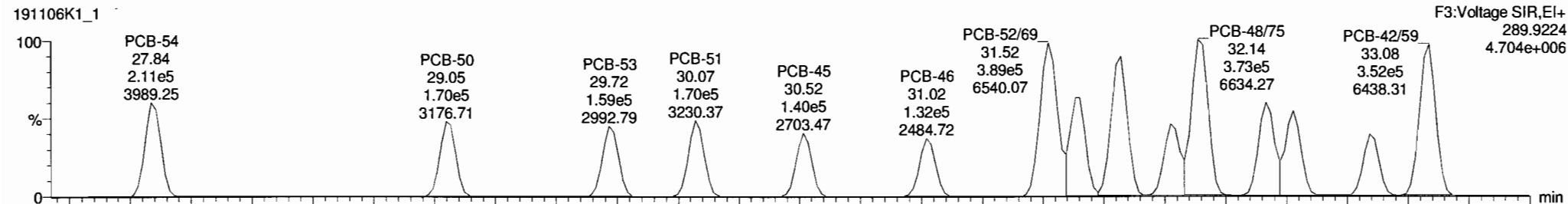


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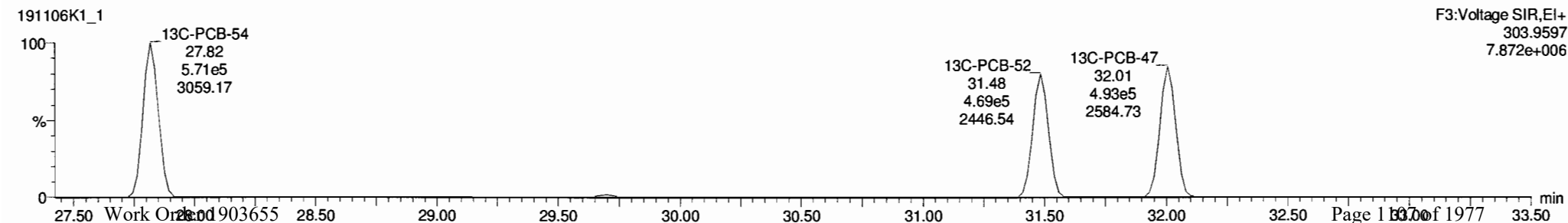
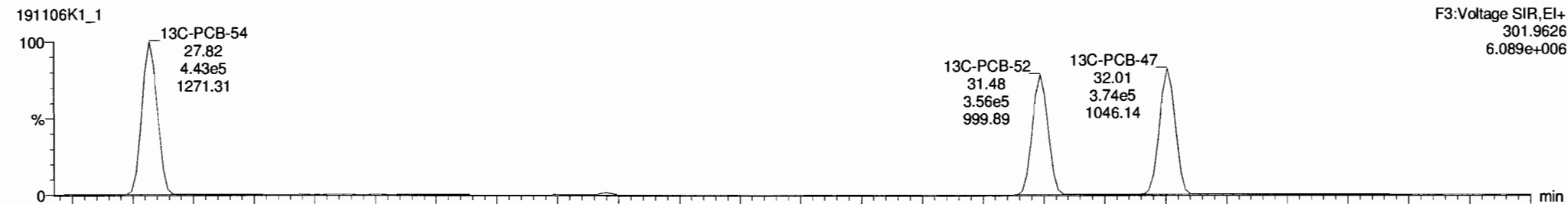
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 Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

Name: 191106K1\_1, Date: 06-Nov-2019, Time: 12:53:19, ID: ST191106K1-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-50**



**13C-PCB-52**

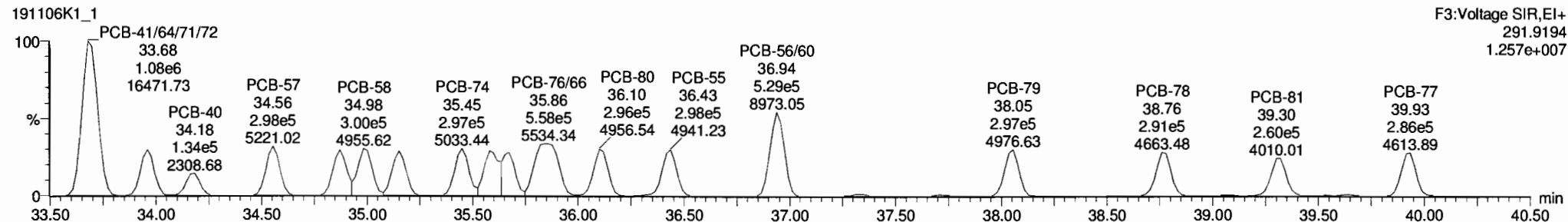
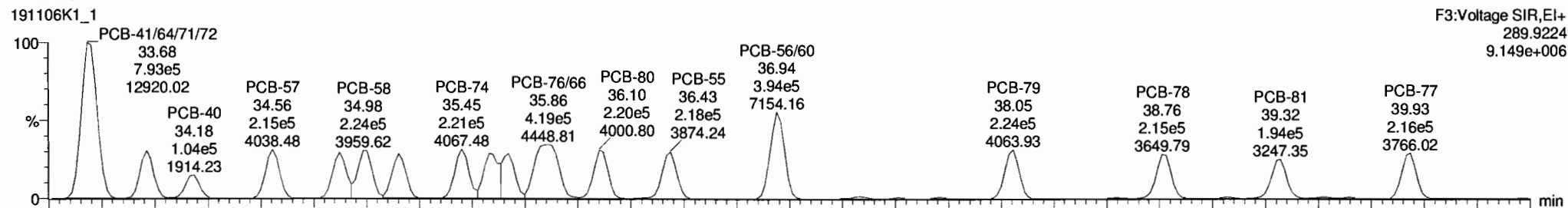


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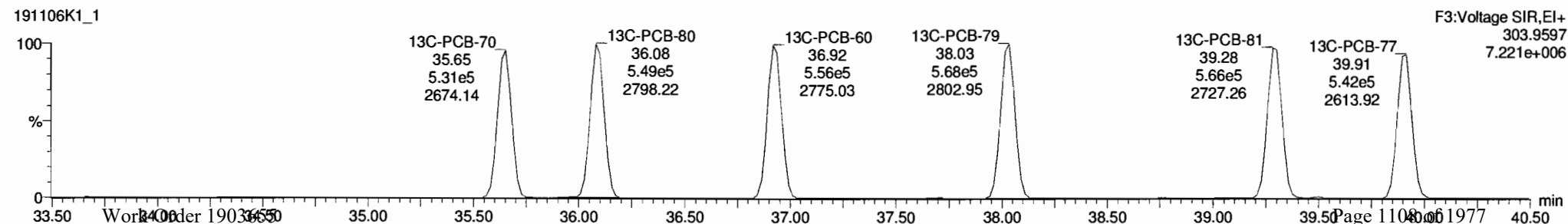
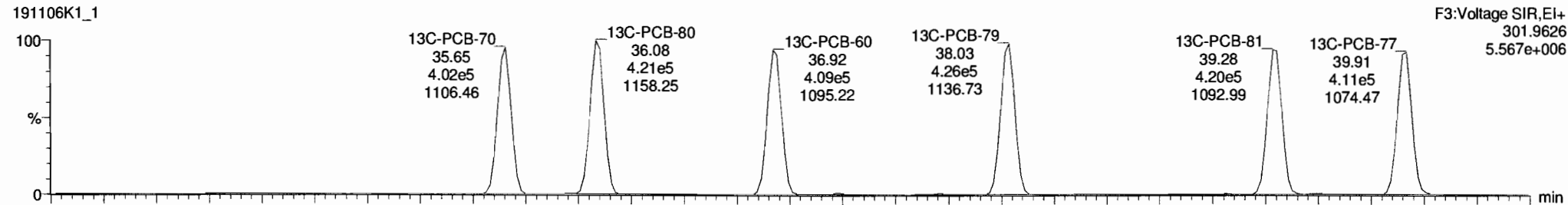
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Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

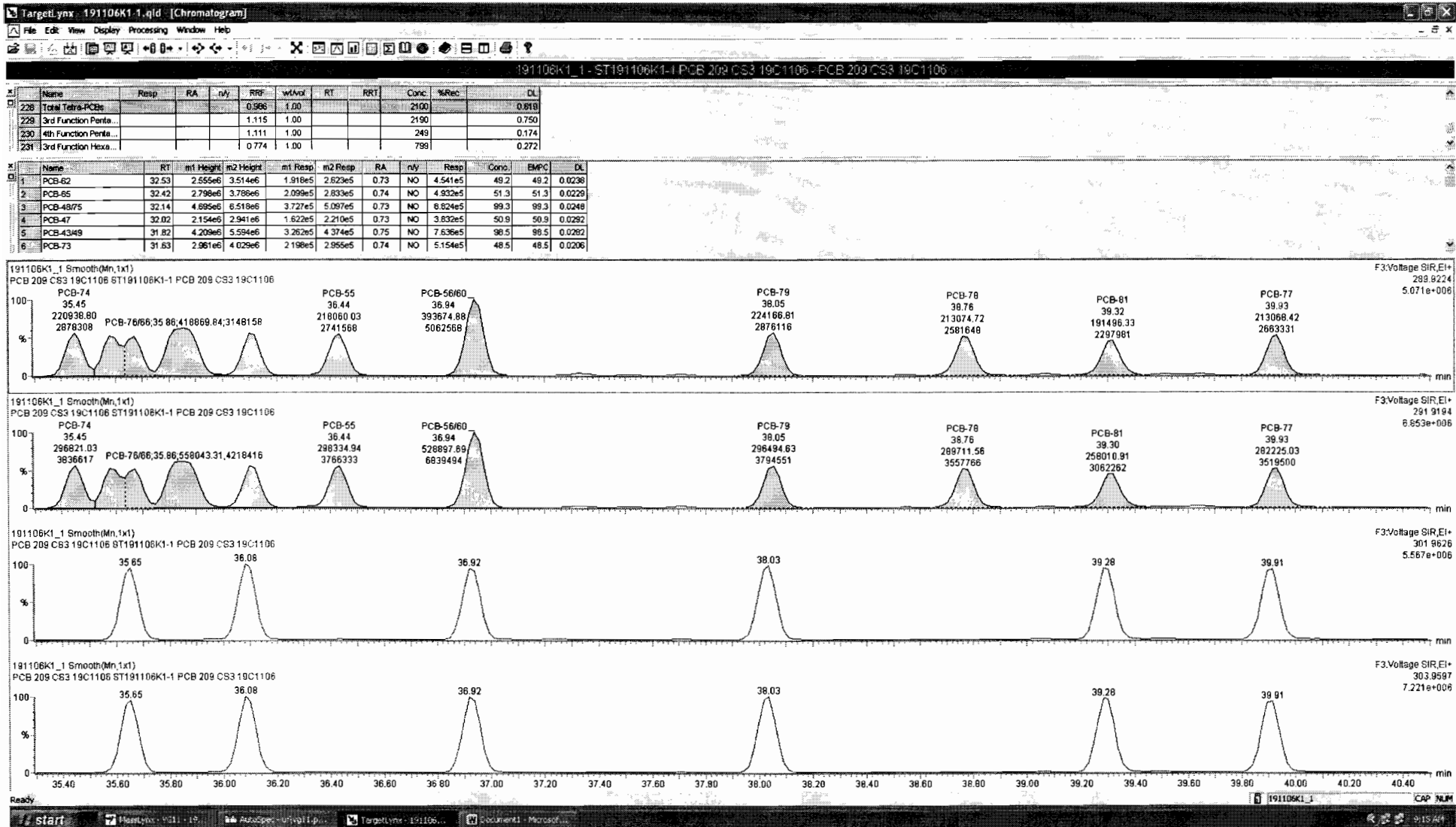
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PCB-68



13C-PCB-60



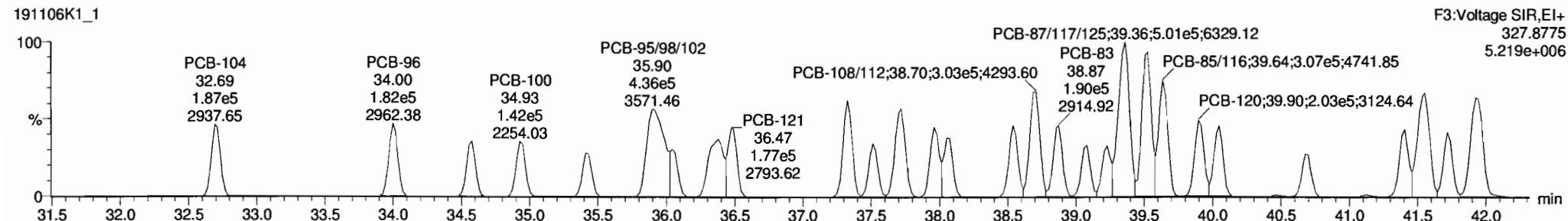
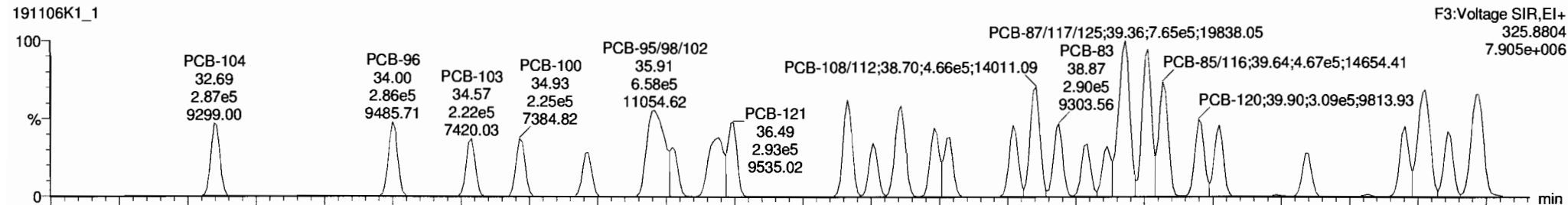


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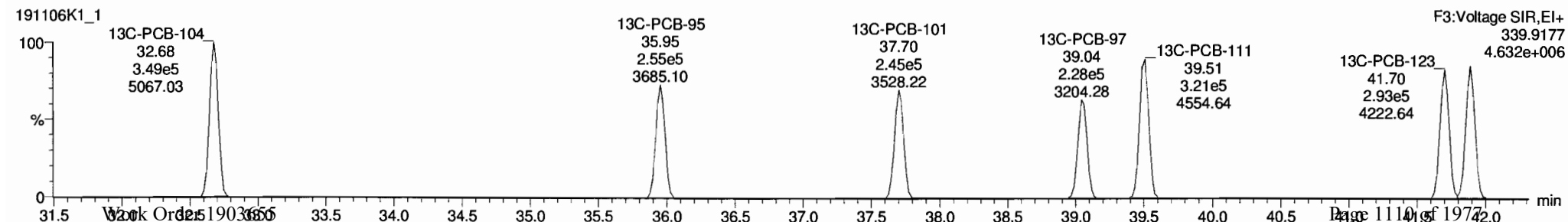
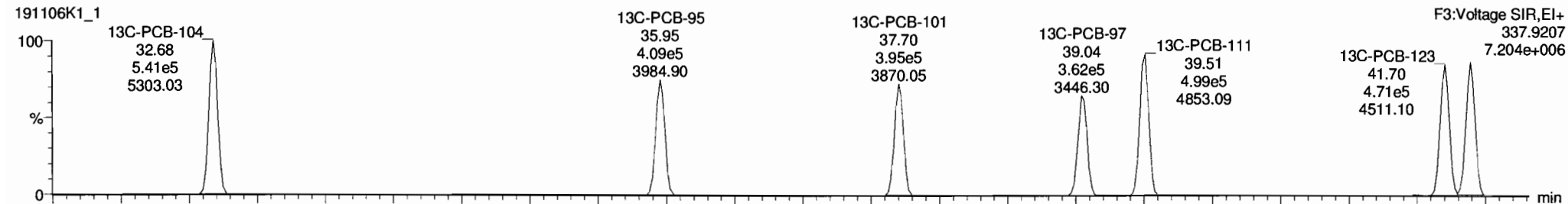
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

Name: 191106K1\_1, Date: 06-Nov-2019, Time: 12:53:19, ID: ST191106K1-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

PCB-104



13C-PCB-104

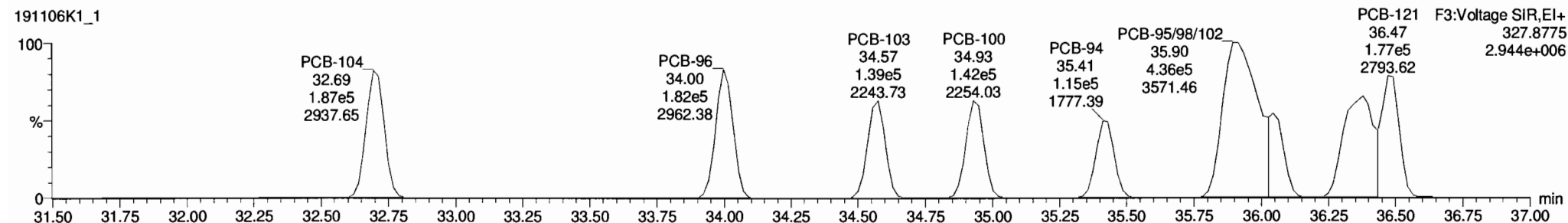
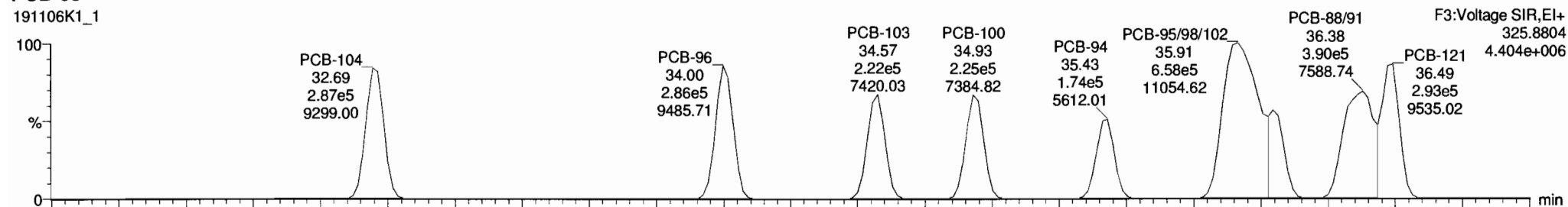


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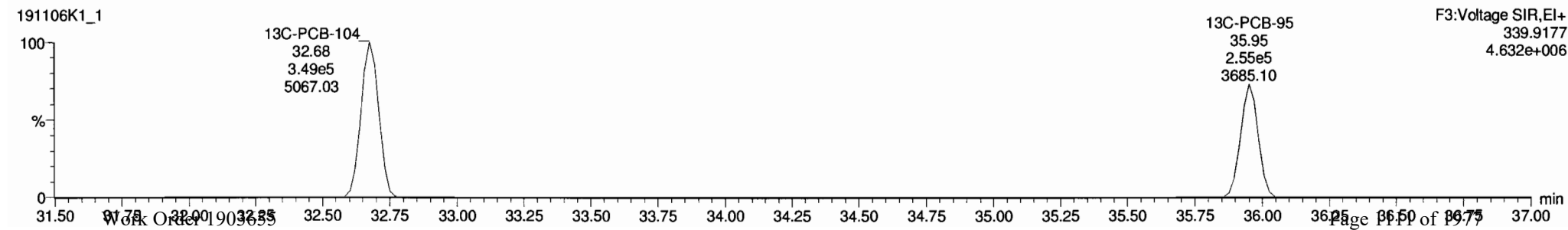
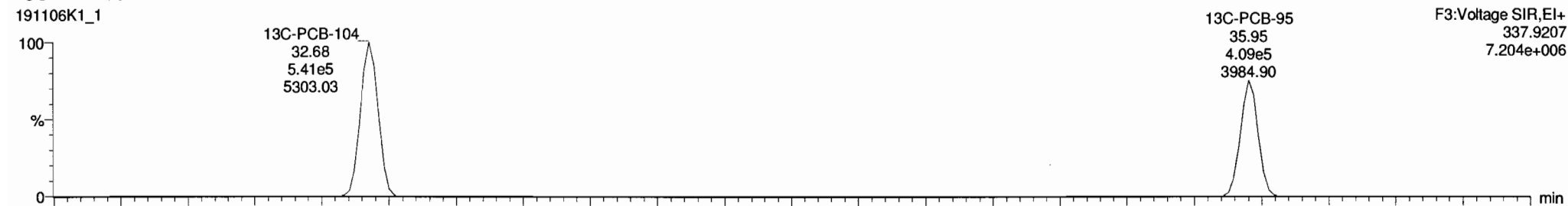
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
 Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

Name: 191106K1\_1, Date: 06-Nov-2019, Time: 12:53:19, ID: ST191106K1-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-96**



**13C-PCB-95**



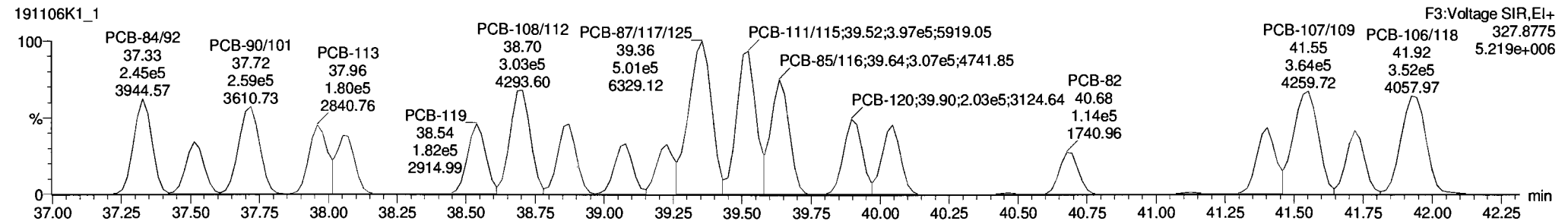
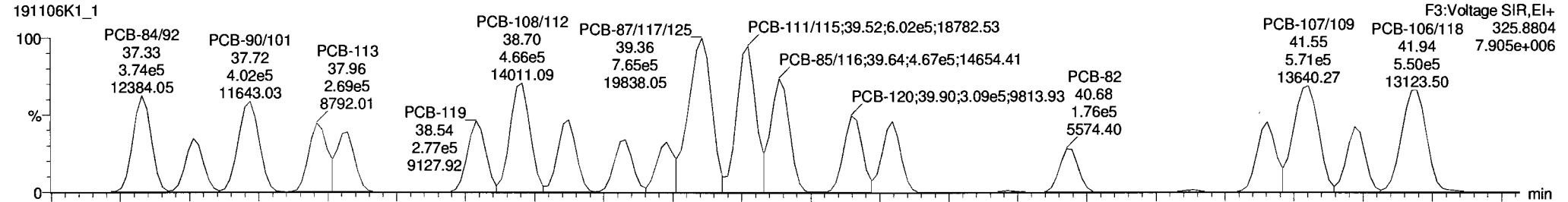
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Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time

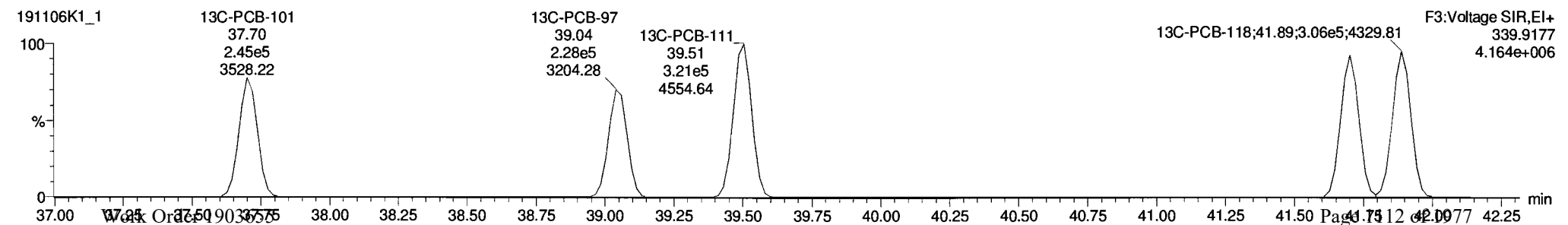
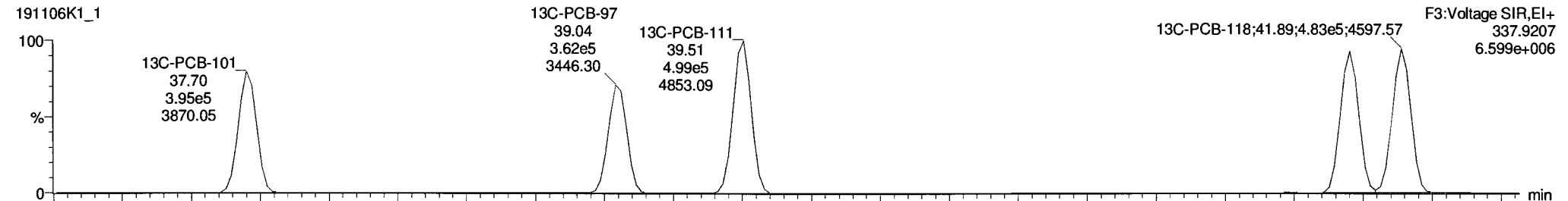
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

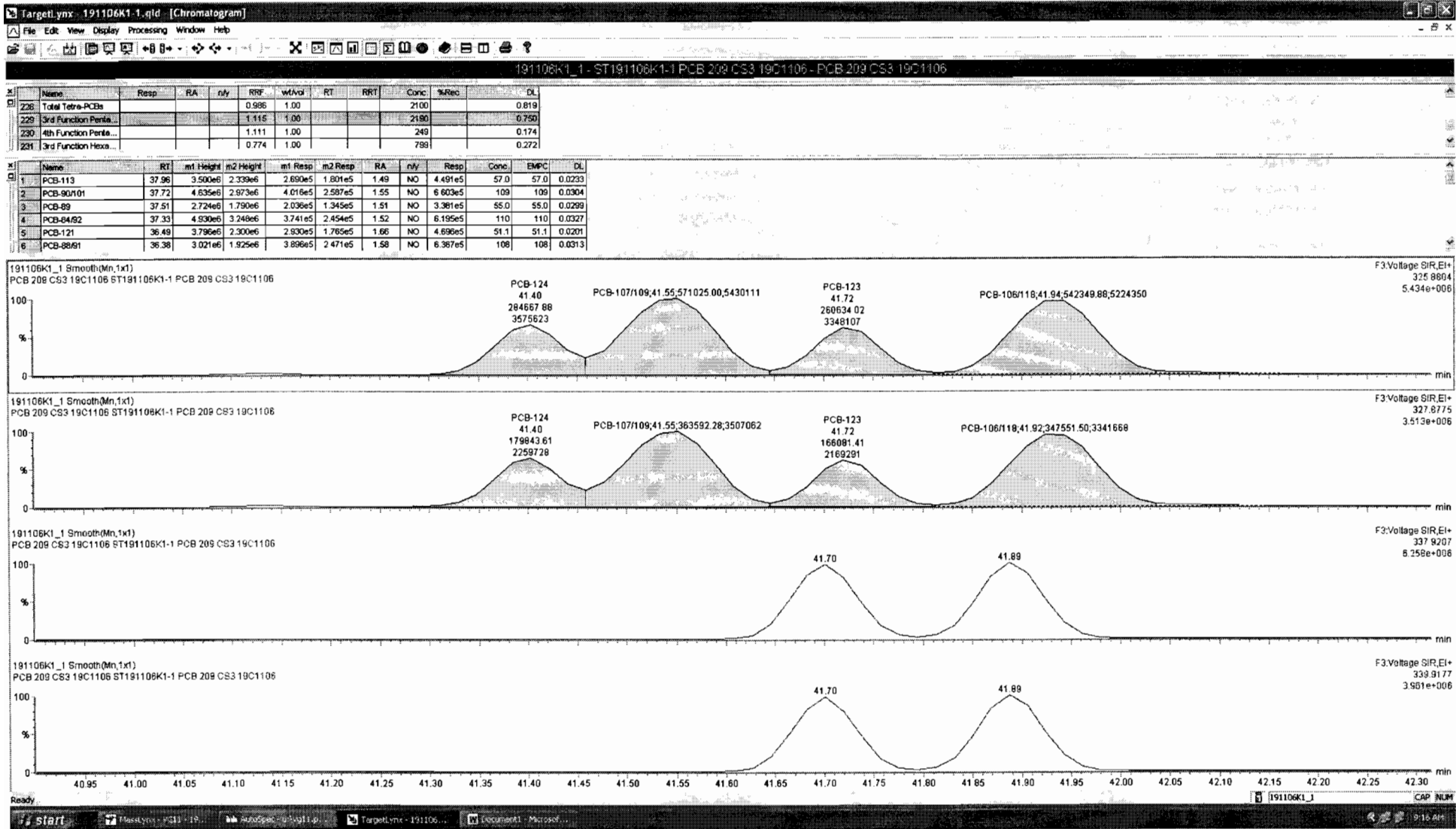
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PCB-119



13C-PCB-111





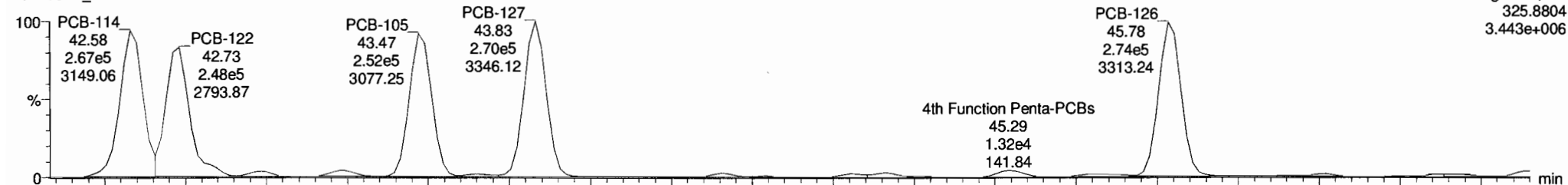
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Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
 Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

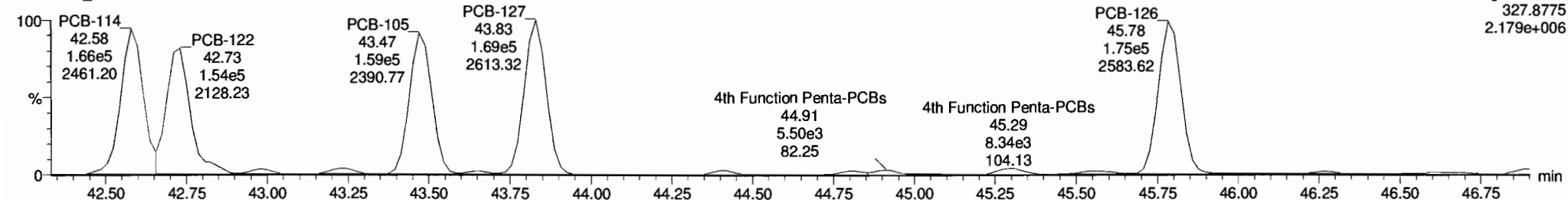
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**PCB-114**

191106K1\_1

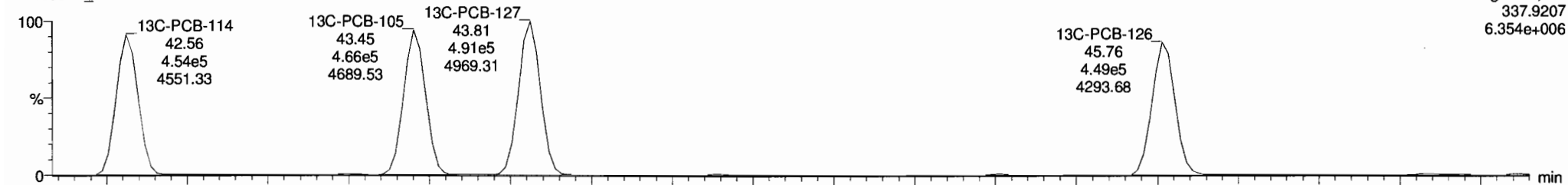


191106K1\_1

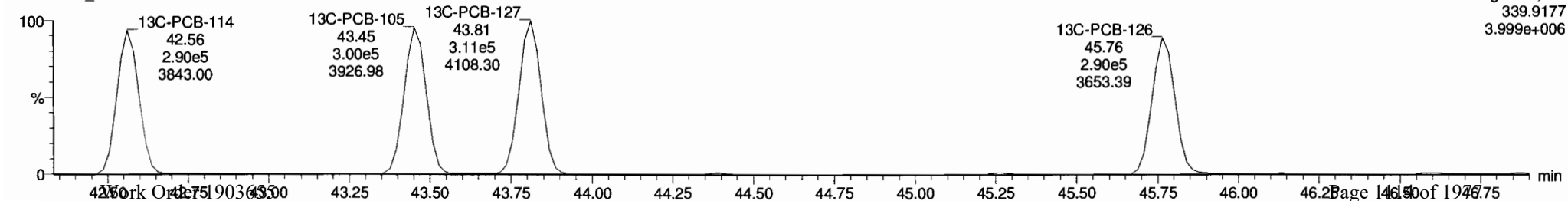


**13C-PCB-114**

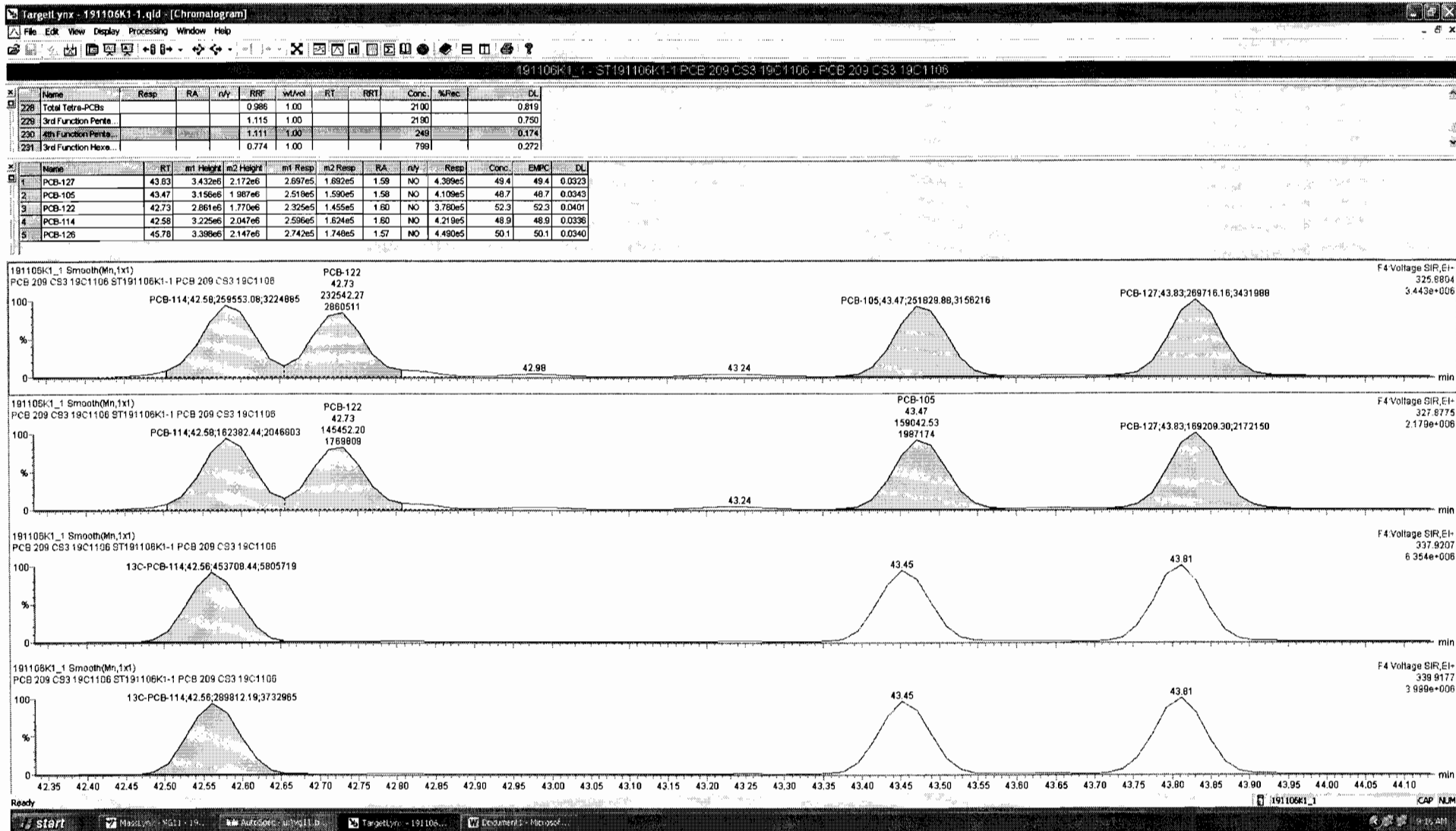
191106K1\_1



191106K1\_1







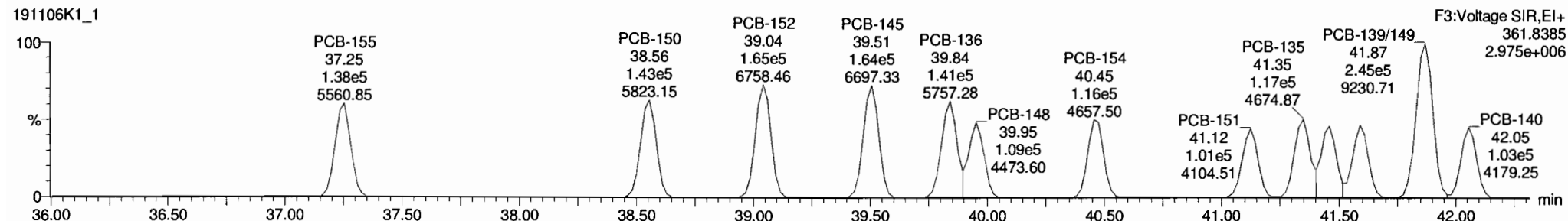
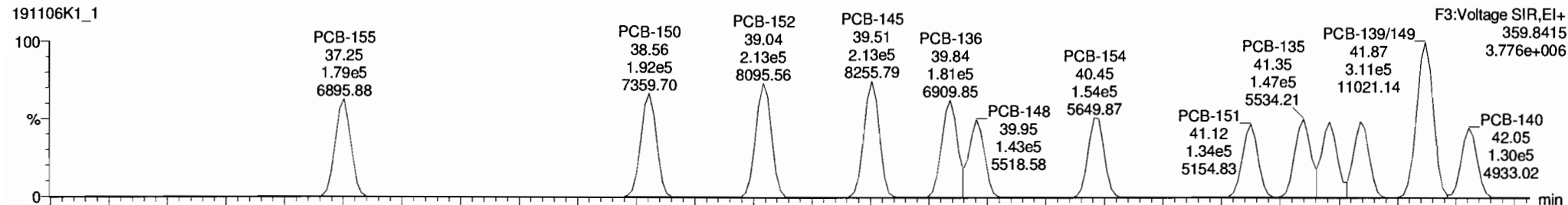
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Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time

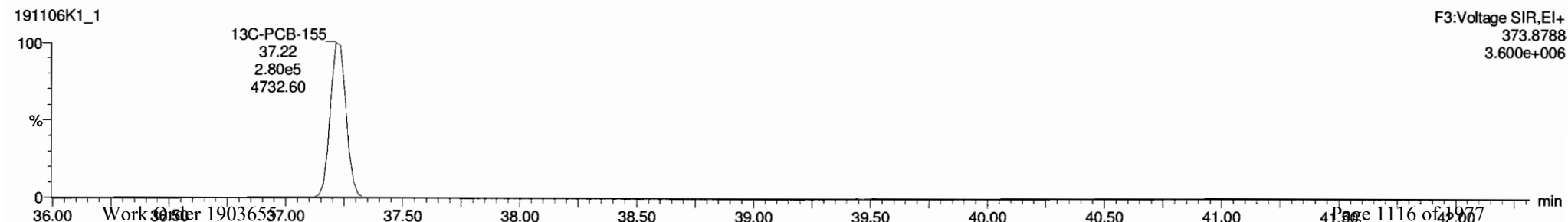
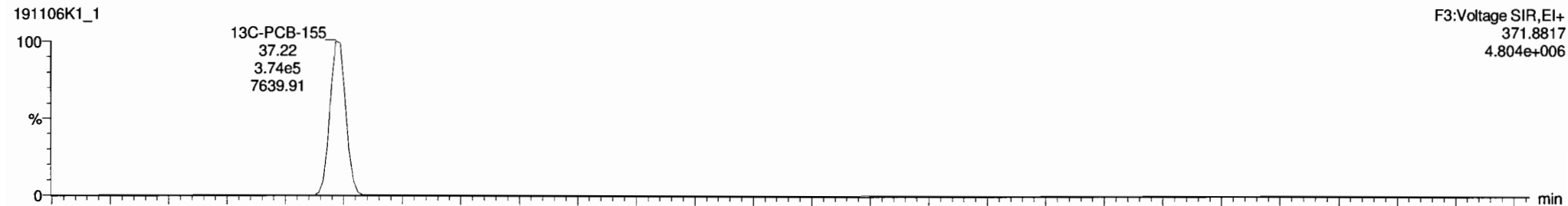
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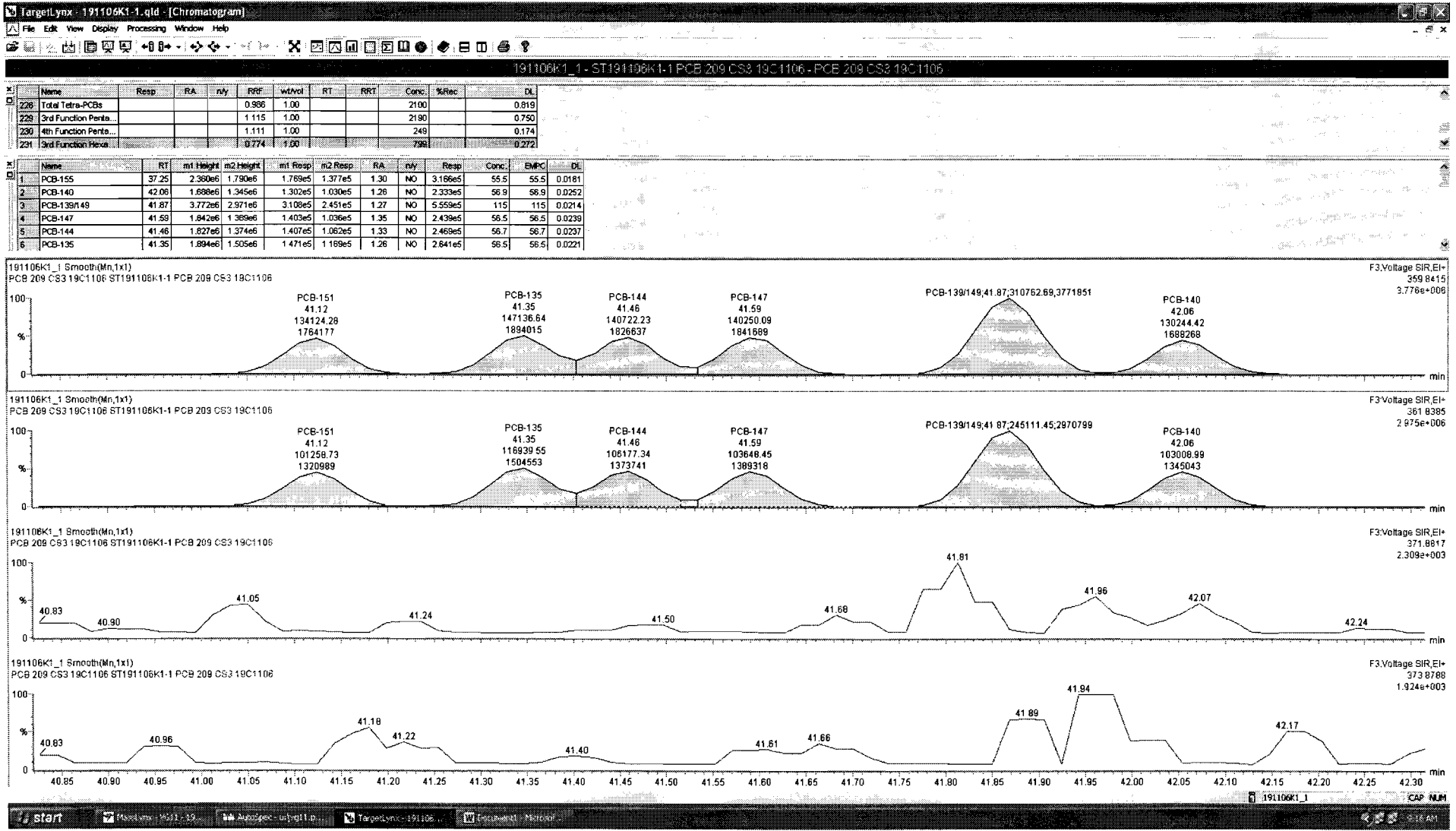
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PCB-155



13C-PCB-155



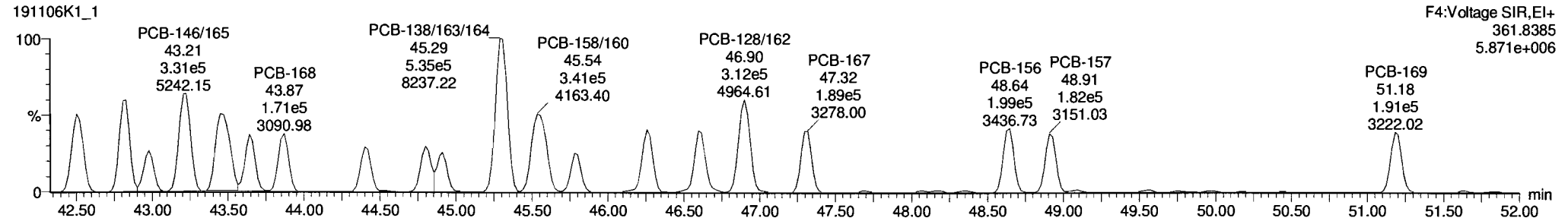
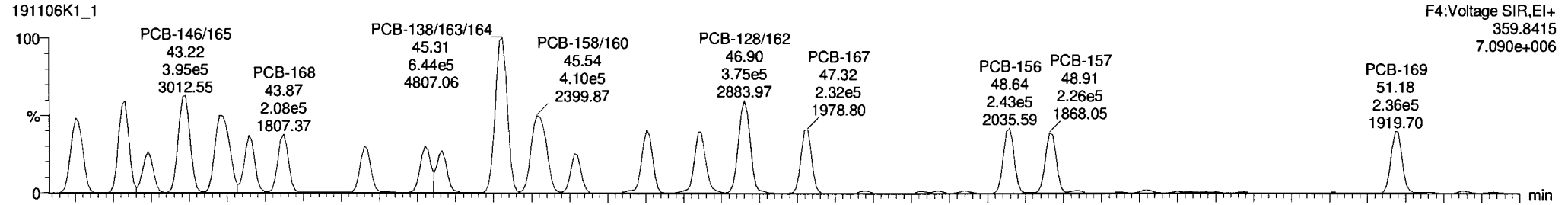


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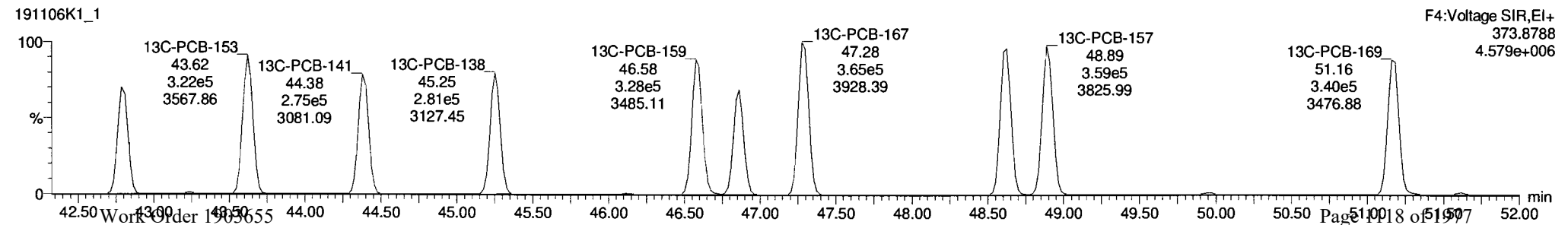
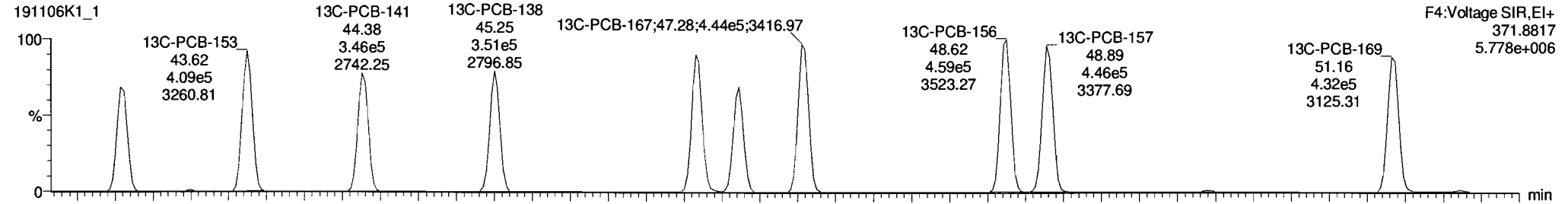
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Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

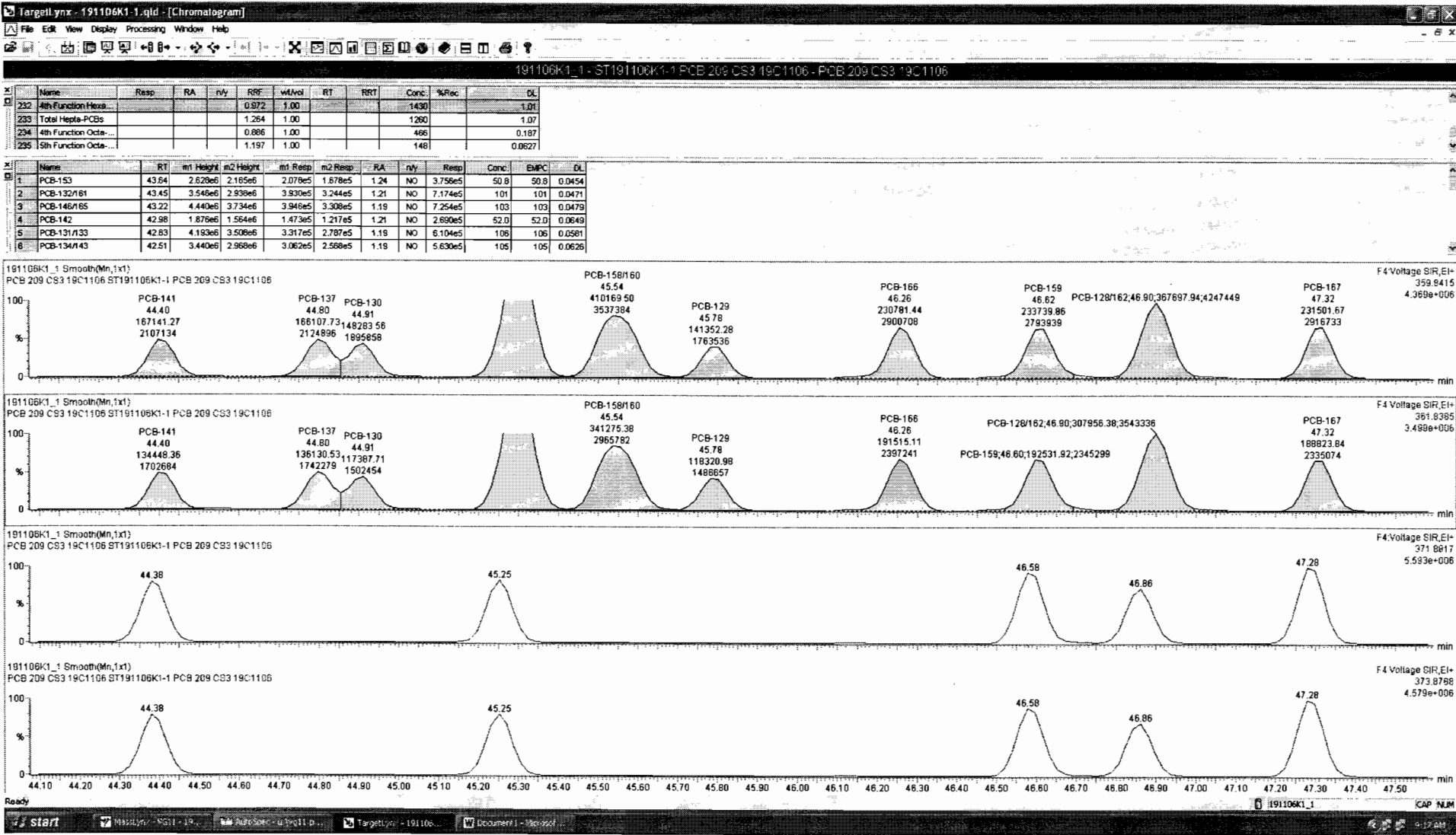
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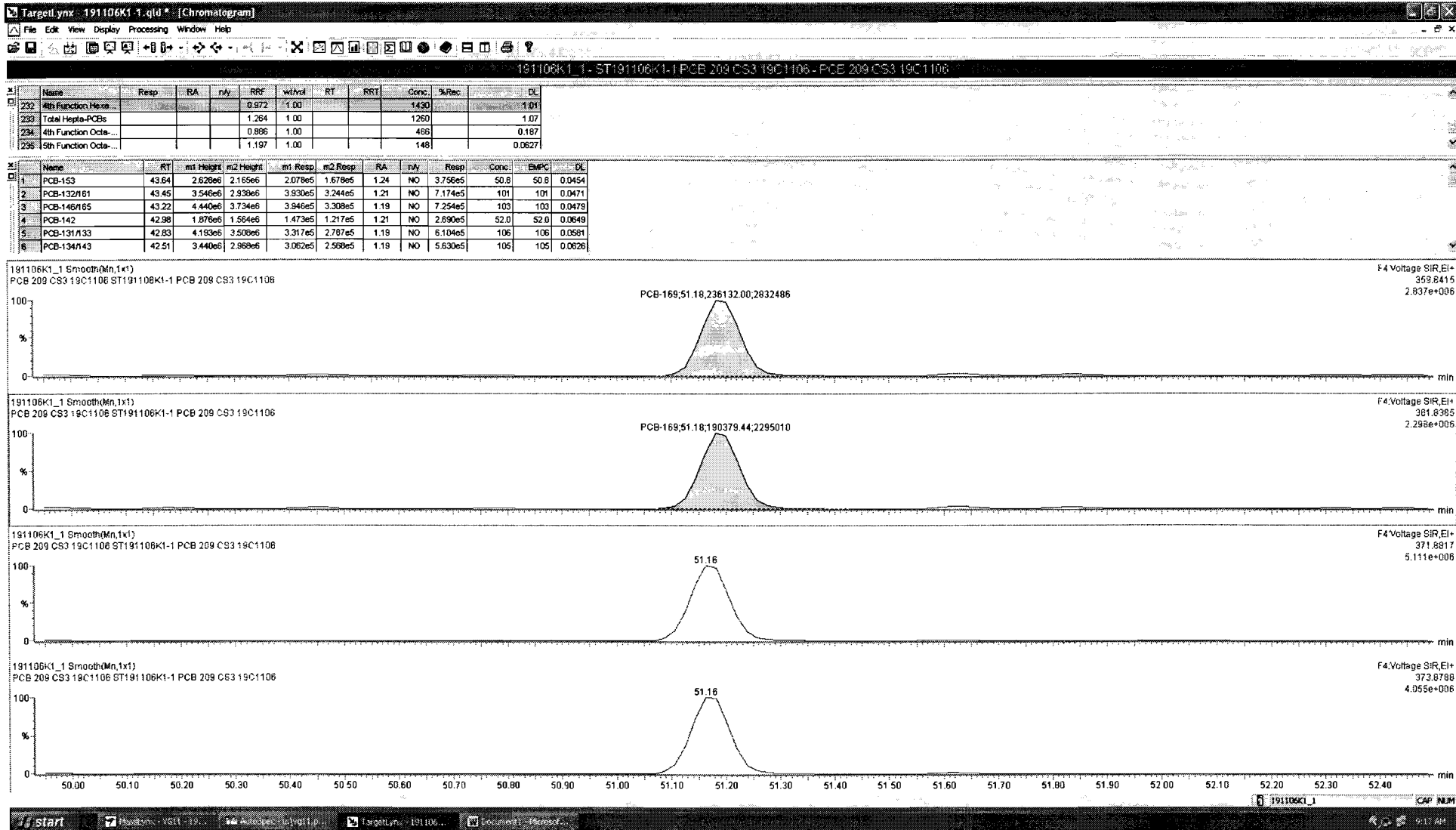
PCB-134/143



13C-PCB-153







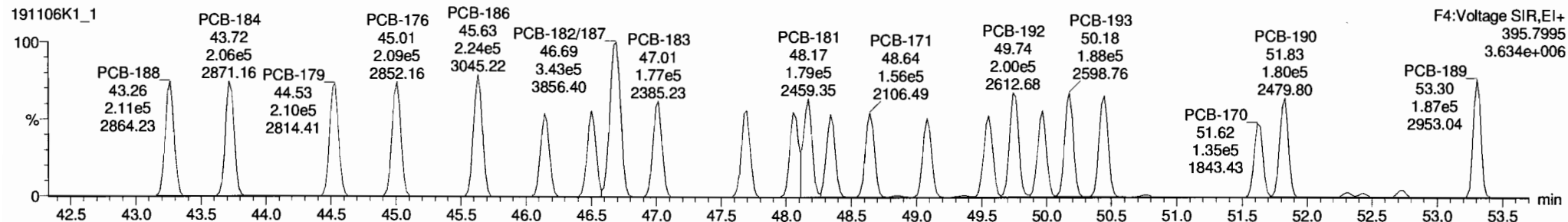
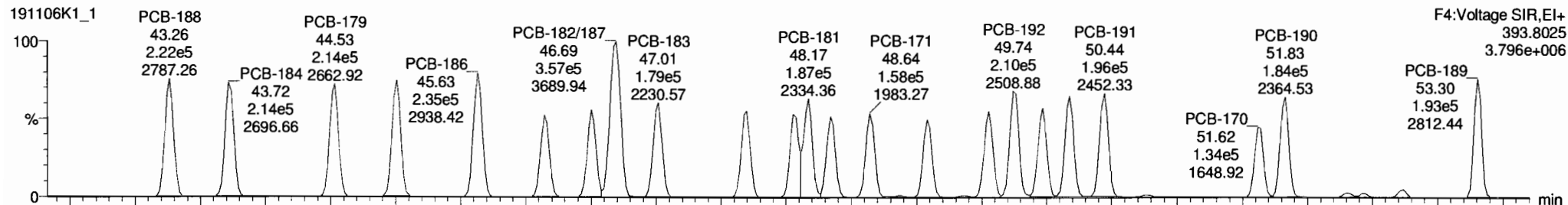
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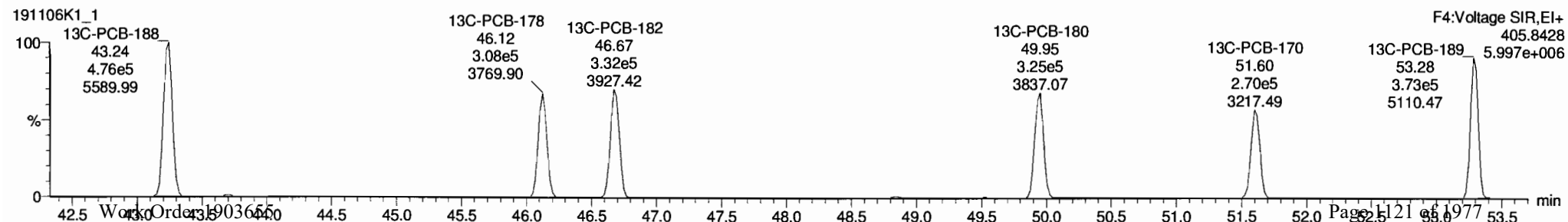
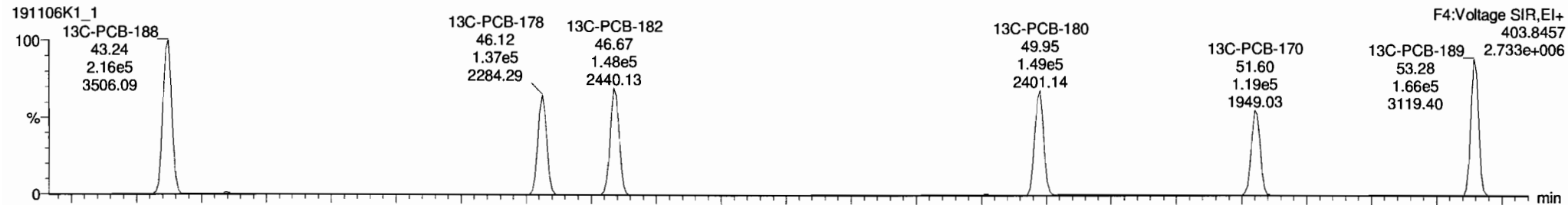
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

Name: 191106K1\_1, Date: 06-Nov-2019, Time: 12:53:19, ID: ST191106K1-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

PCB-188



13C-PCB-188



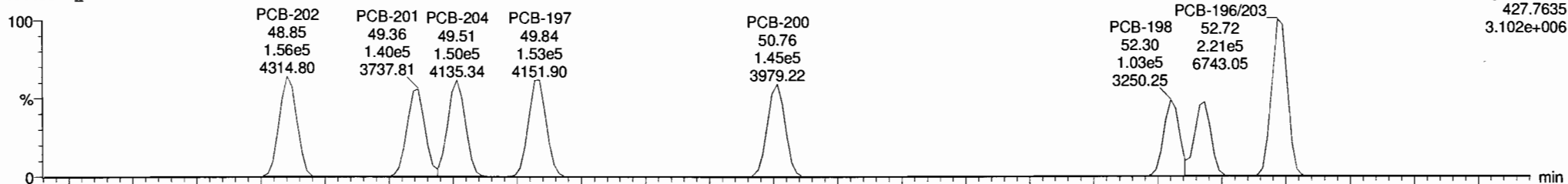
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Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

Name: 191106K1\_1, Date: 06-Nov-2019, Time: 12:53:19, ID: ST191106K1-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

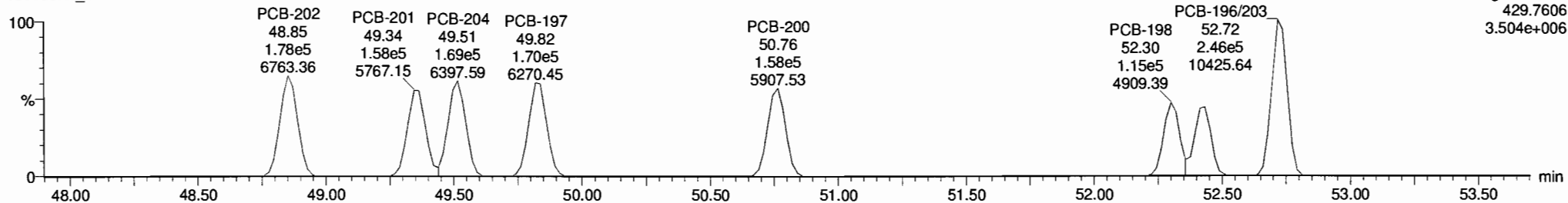
PCB-202

191106K1\_1



F4:Voltage SIR,EI+  
427.7635  
3.102e+006

191106K1\_1



F4:Voltage SIR,EI+  
429.7606  
3.504e+006

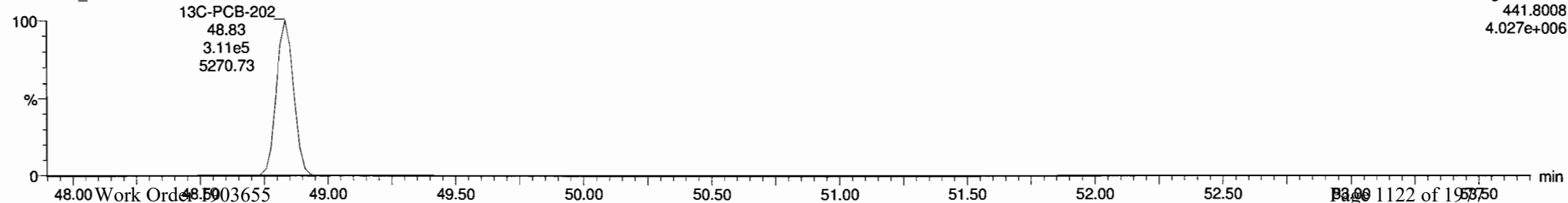
13C-PCB-202

191106K1\_1



F4:Voltage SIR,EI+  
439.8038  
3.806e+006

191106K1\_1



F4:Voltage SIR,EI+  
441.8008  
4.027e+006

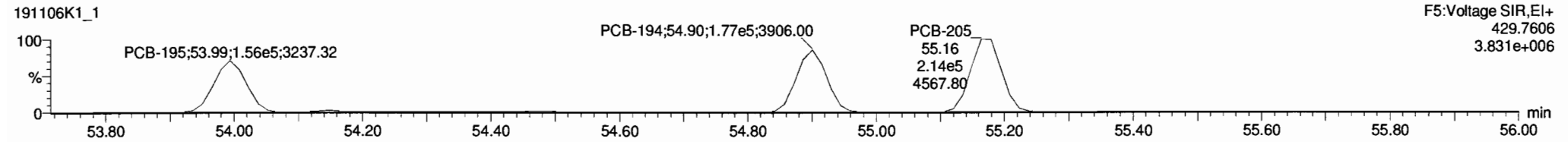
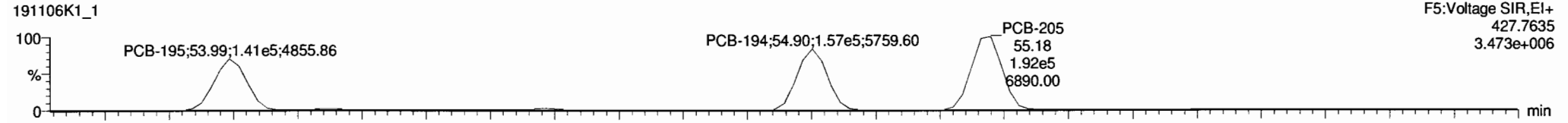


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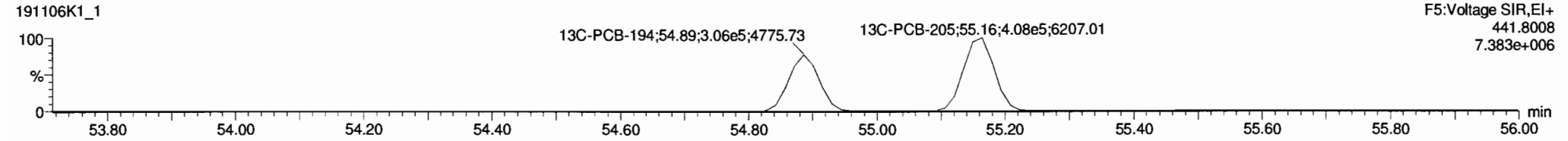
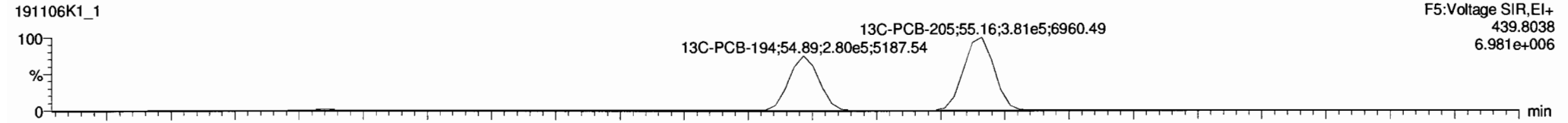
Last Altered: Thursday, November 07, 2019 09:00:44 Pacific Standard Time  
Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

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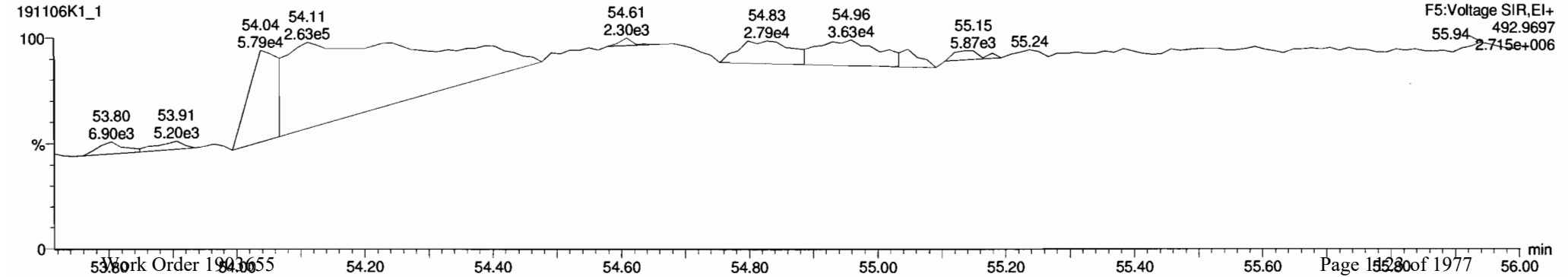
**PCB-195**



**13C-PCB-194**



**PFK5**

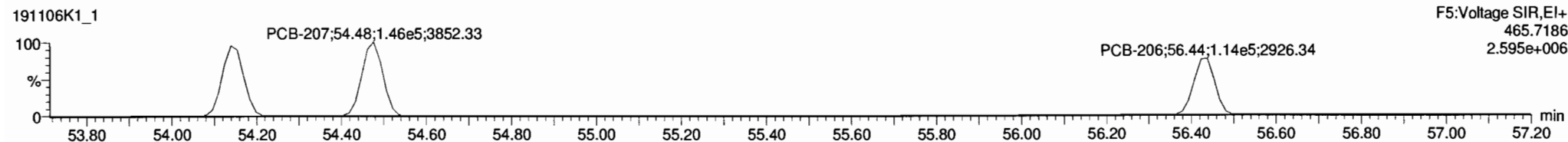


Dataset: Untitled

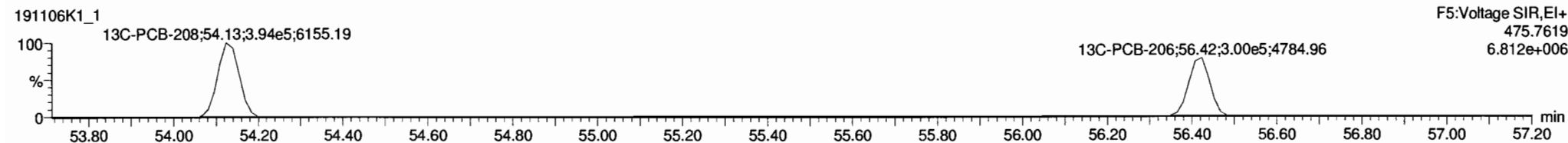
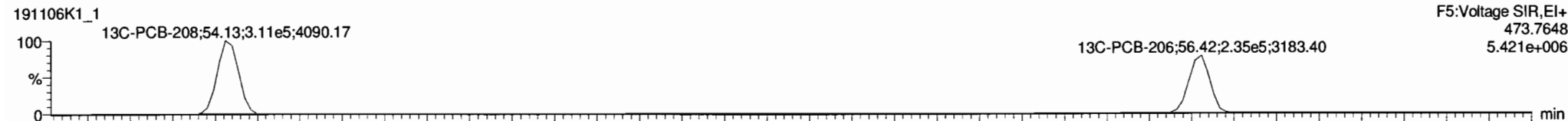
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Printed: Thursday, November 07, 2019 09:02:34 Pacific Standard Time

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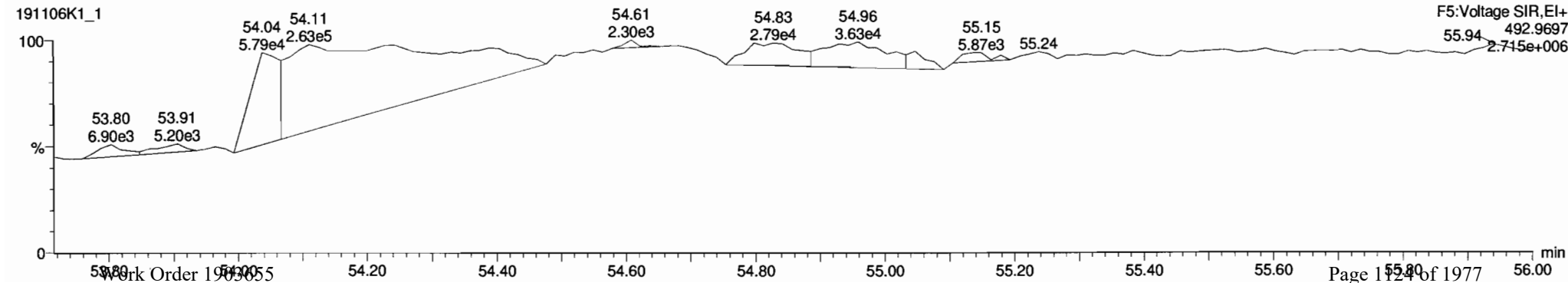
### PCB-208



### 13C-PCB-208



### PFK5

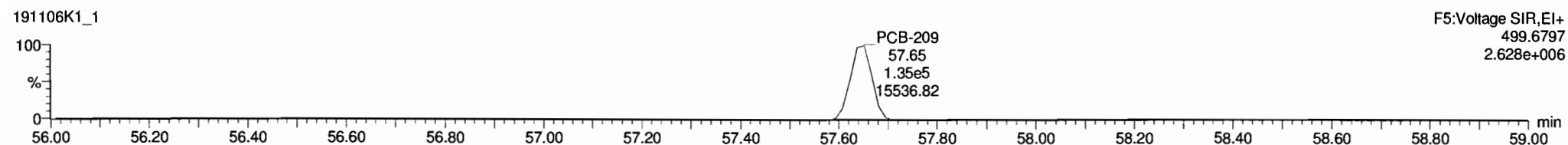
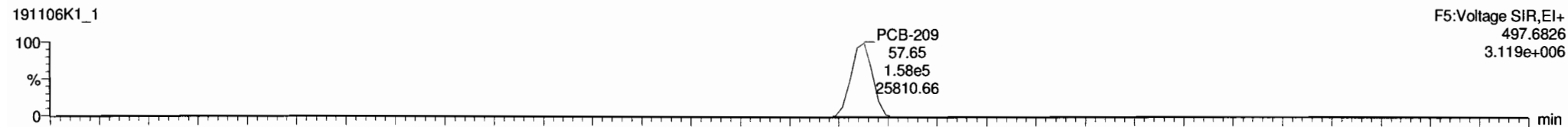


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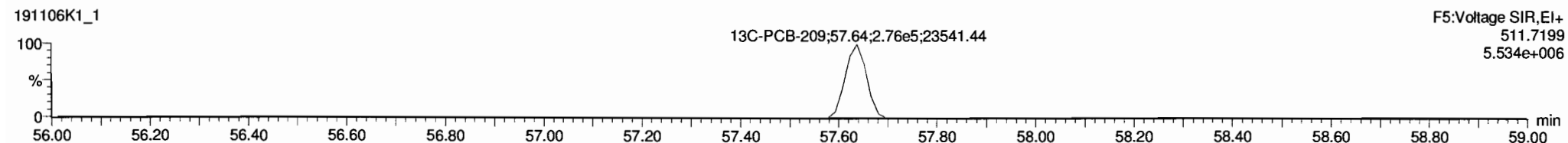
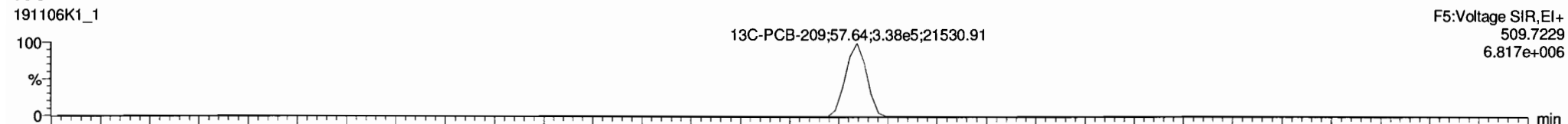
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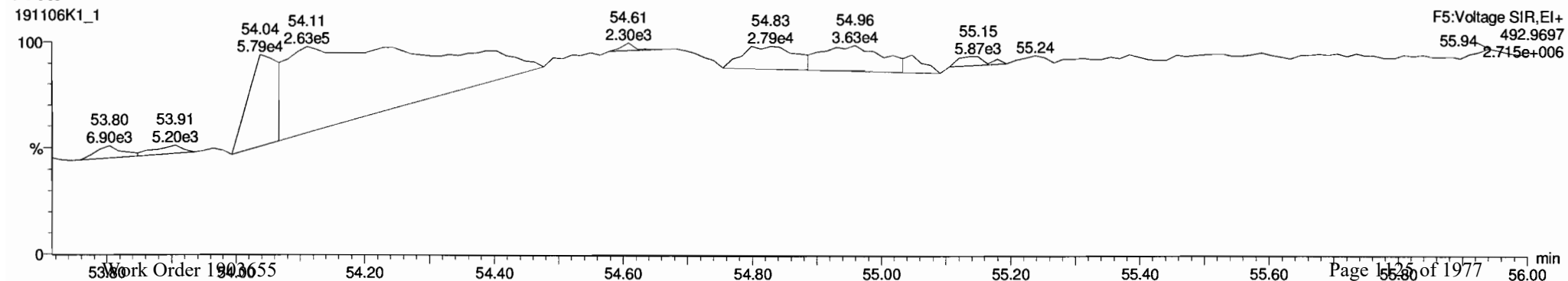
### PCB-209



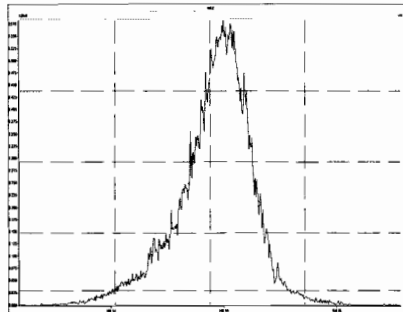
### 13C-PCB-209



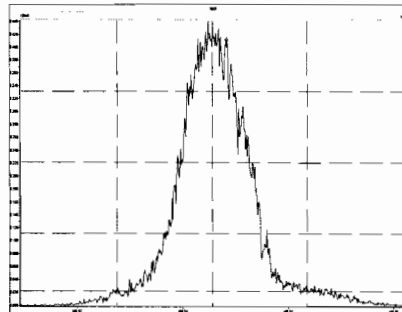
### PFK5



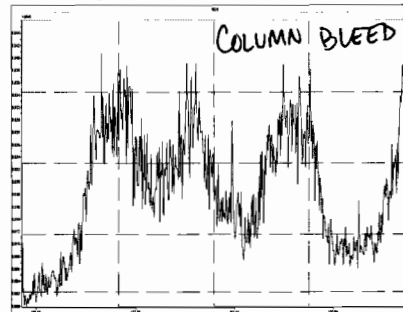
M 168.9888 R 10729



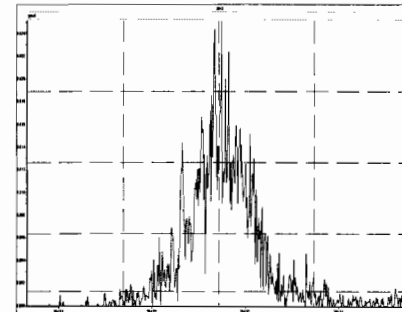
M 180.9888 R 10882



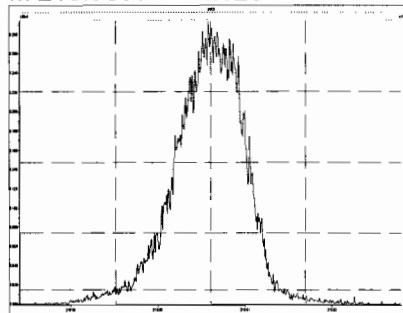
M 192.9888 R 0



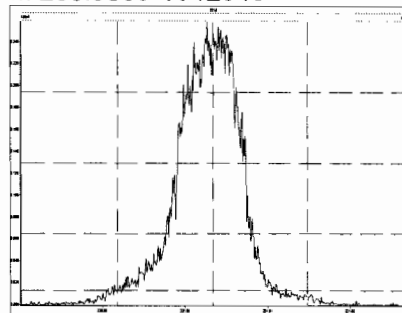
M 204.9888 R 19532



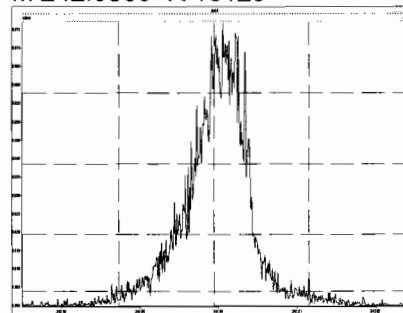
M 218.9856 R 12525



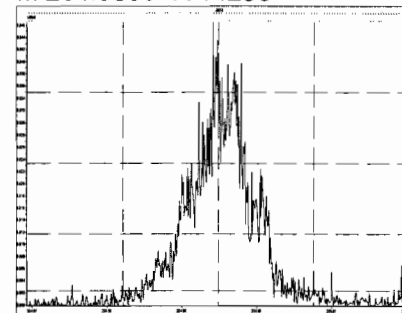
M 230.9856 R 12048



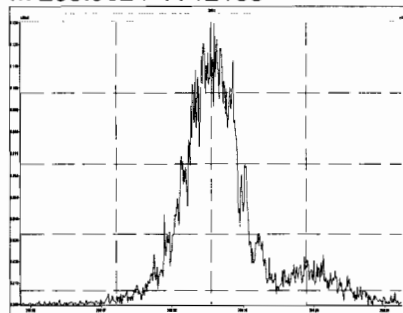
M 242.9856 R 13129



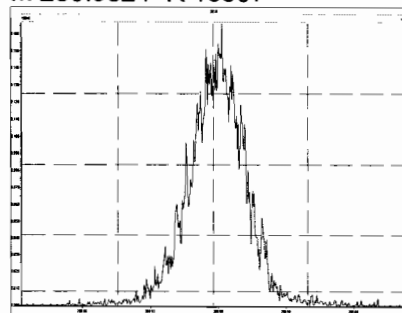
M 254.9856 R 14296



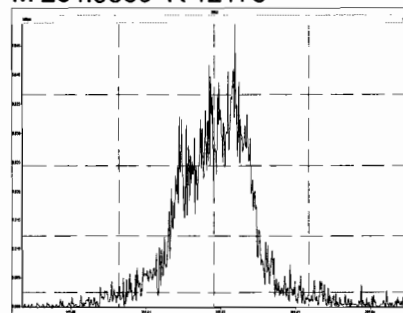
M 268.9824 R 12188



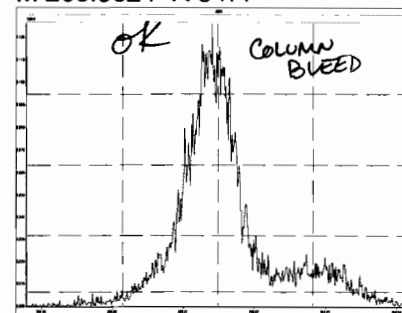
M 280.9824 R 15307



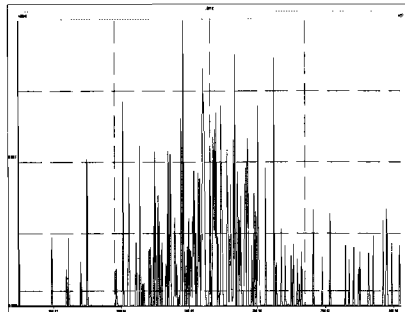
M 254.9856 R 12173



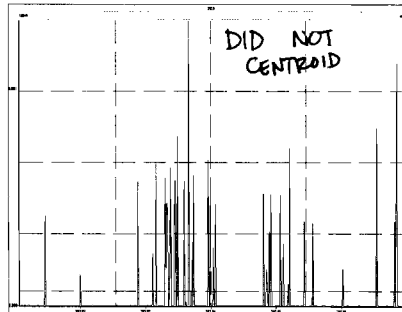
M 268.9824 R 8477



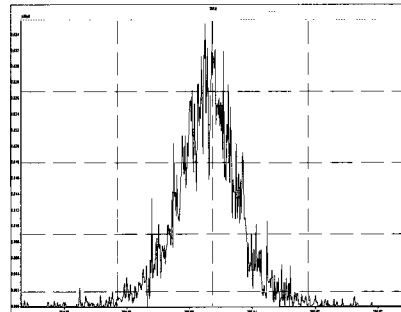
M 280.9824 R 466665



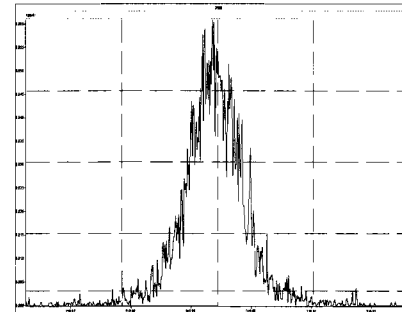
M 292.9824 R 416672



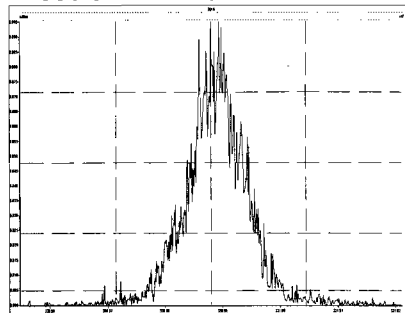
M 304.9824 R 16892



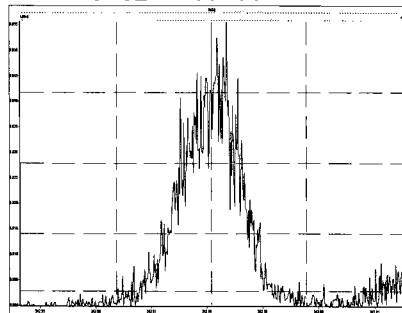
M 318.9792 R 18386



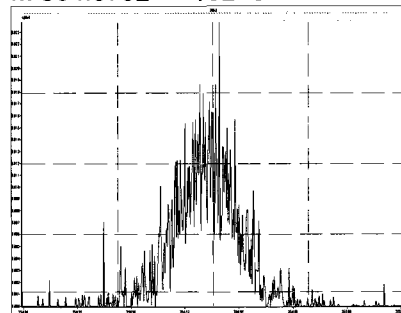
M 330.9792 R 15271



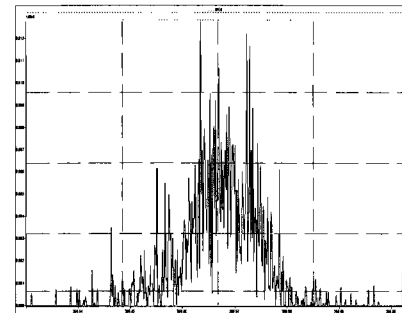
M 342.9792 R 15755



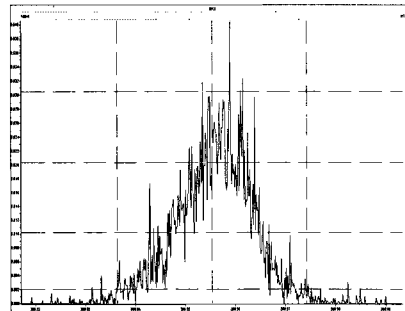
M 354.9792 R 18248



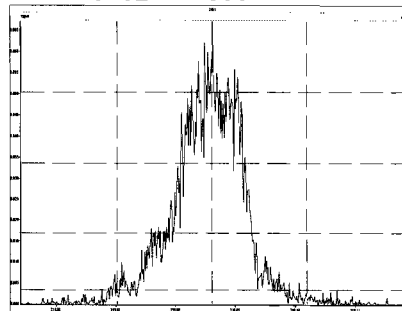
M 366.9792 R 22756



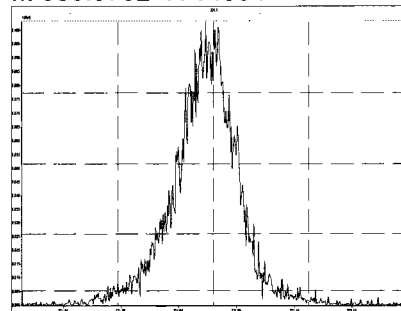
M 380.9760 R 12759



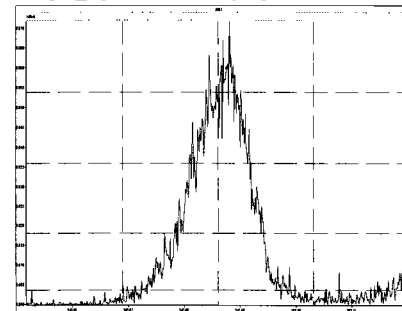
M 318.9792 R 13661



M 330.9792 R 14654

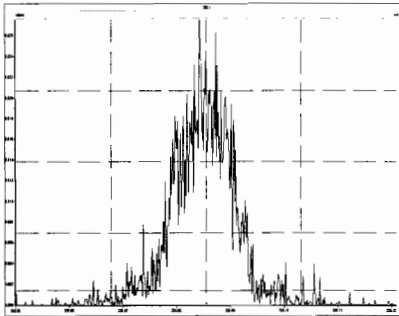


M 342.9792 R 14579

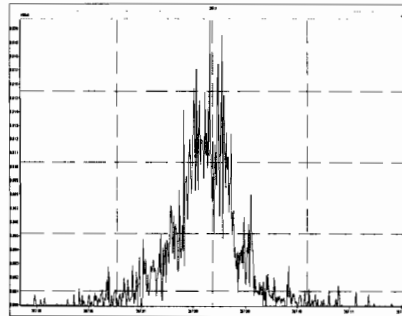


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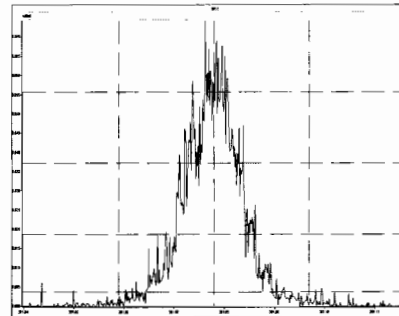
M 354.9792 R 18124



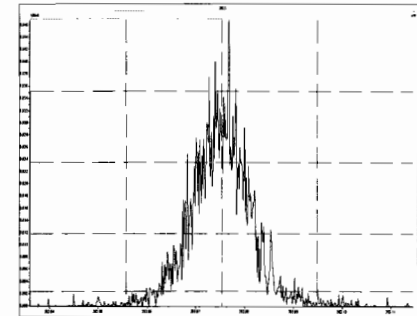
M 366.9792 R 17210



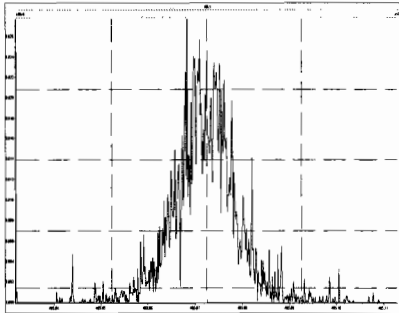
M 380.9760 R 15106



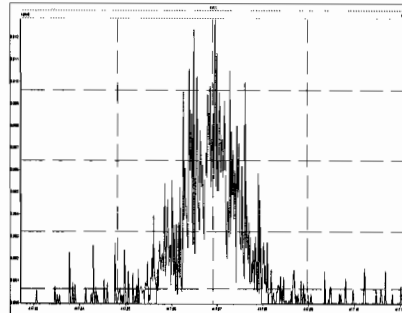
M 392.9760 R 16336



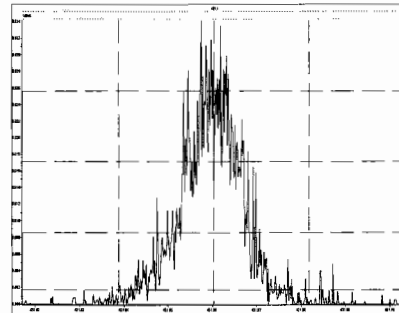
M 404.9760 R 17639



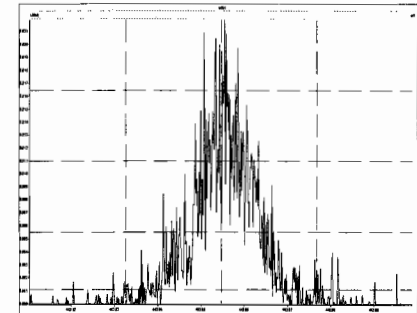
M 416.9760 R 22281



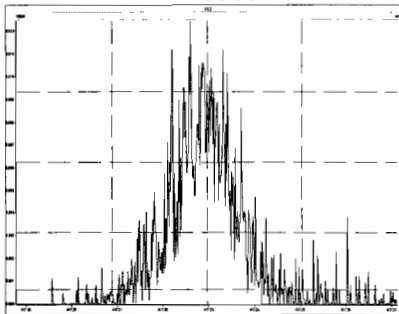
M 430.9728 R 17855



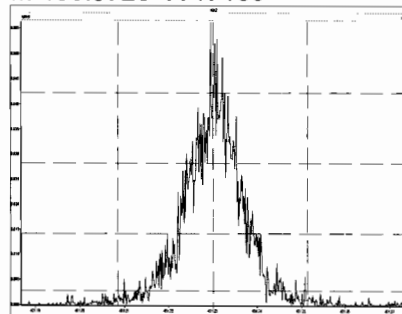
M 442.9728 R 17831



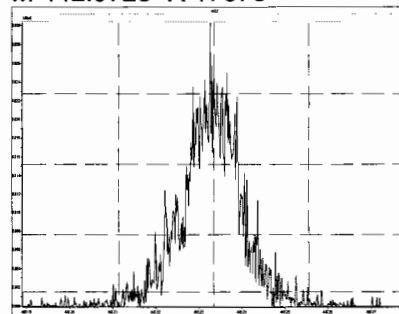
M 416.9760 R 18506



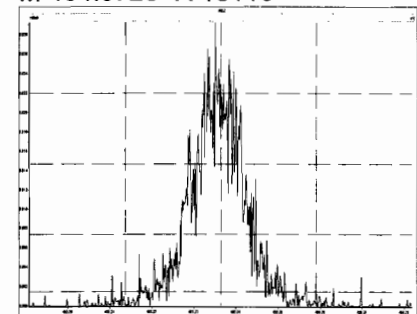
M 430.9728 R 17109



M 442.9728 R 17678

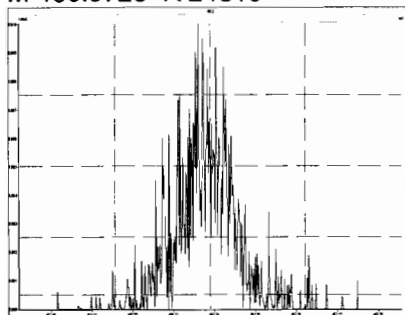


M 454.9728 R 18116

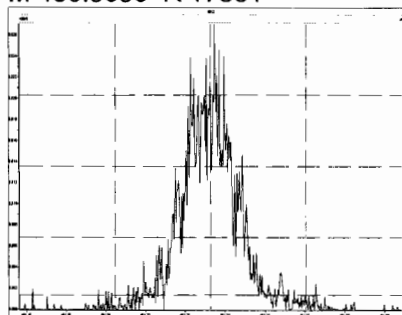


Printed: Thursday, November 07, 2019 00:18:44 Pacific Standard Time

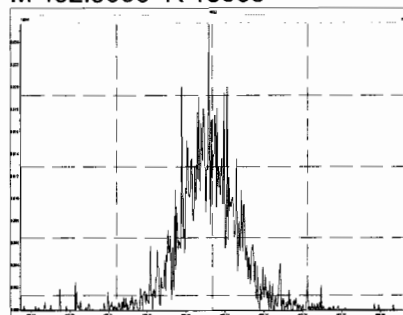
M 466.9728 R 24310



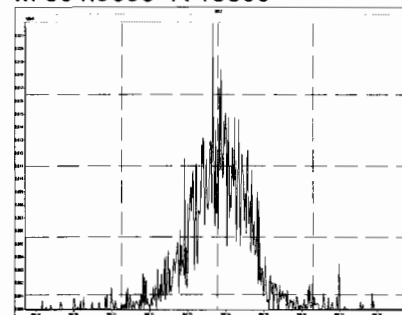
M 480.9696 R 17381



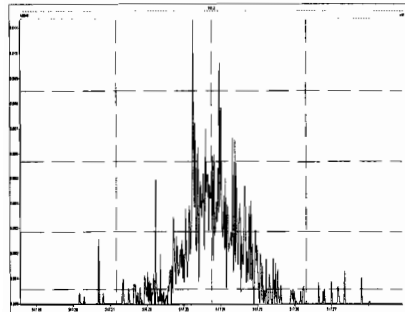
M 492.9696 R 18568



M 504.9696 R 18800



M 516.9697 R 26387



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST91106K2-1

**Reviewed By:** C7 11/08/19  
*Initials & Date*

**End Calibration ID:** NA

	<u>Beg.</u>	<u>End</u>
<b>Ion abundance within QC limits?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
<b>Concentrations within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>TCDD/TCDF Valleys &lt;25%</b>	<input type="checkbox"/> NA	<input type="checkbox"/>
<b>First and last eluters present?</b>	<input type="checkbox"/> NA	<input type="checkbox"/>
<b>Retention Times within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Verification Std. named correctly?</b> (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Forms signed and dated?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Correct ICAL referenced?</b>	<u>GRB</u>	<u>↓</u>
<b><u>Run Log:</u></b>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
- Bottle position verified?	<u>GRB</u>	

**Mass resolution  $\geq$**

5k    6-8K    8K    10K  
 1614   1699   429   1613/1668/8280

**Intergrated peaks display correctly?**

**GC Break <20%**

NA

**8280 CS1 End Standard:**

**- Ratios within limits, S/N <2.5:1, CS1 within 12 hours**

<u>(A) Beg.</u>	<u>(A) End</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/> NA

<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
-------------------------------------	-----------------------------

NA

**Comments:**

(A) BEG. & END RES CHECK HAD PFK DRAIN:  
 - SOME MASSES HAD COLUMN BLEED  
 - SOME MASSES DID NOT CENTROID



Dataset: U:\VG11.PRO\Results\191106K2\191106K2-2.qld

Last Altered: Thursday, November 07, 2019 07:55:07 Pacific Standard Time

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GRB 11/07/19

CT 11/08/19

Method: Untitled 05 Nov 2019 14:32:48

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191106K2\_2, Date: 07-Nov-2019, Time: 01:20:30, ID: ST191106K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	8.54e5	3.09	NO	1.02	1.000	15.69	15.70	1.001	1.001	NO	51.31	103.75-125%	0.00554	51.31
2	2 PCB-2	8.77e5	3.06	NO	1.01	1.000	18.13	18.12	0.988	0.988	NO	49.92	99.8	0.00567	49.92
3	3 PCB-3	8.65e5	3.03	NO	1.01	1.000	18.36	18.36	1.001	1.001	NO	49.30	98.6	0.00569	49.30
4	4 PCB-4/10	1.12e6	1.52	NO	1.28	1.000	19.78	19.79	1.004	1.004	NO	93.53	93.5	0.0388	93.53
5	5 PCB-7/9	1.31e6	1.55	NO	0.976	1.000	21.60	21.60	1.003	1.003	NO	95.54	95.5	0.0344	95.54
6	6 PCB-6	6.91e5	1.55	NO	1.02	1.000	22.25	22.25	1.033	1.033	NO	48.19	96.4	0.0330	48.19
7	7 PCB-5/8	1.42e6	1.55	NO	1.01	1.000	22.67	22.66	1.052	1.052	NO	99.66	99.7	0.0332	99.67
8	8 PCB-14	7.34e5	1.58	NO	1.03	1.000	23.81	23.81	0.952	0.952	NO	49.18	98.4	0.0336	49.18
9	9 PCB-11	7.87e5	1.54	NO	1.10	1.000	25.04	25.04	1.001	1.001	NO	49.69	99.4	0.0316	49.69
10	10 PCB-12/13	1.47e6	1.55	NO	1.04	1.000	25.47	25.41	1.018	1.016	NO	98.32	98.3	0.0334	98.32
11	11 PCB-15	7.51e5	1.55	NO	1.03	1.000	25.77	25.76	1.030	1.030	NO	50.52	101	0.0337	50.52
12	12 PCB-19	4.95e5	0.97	NO	0.934	1.000	24.00	23.99	1.001	1.001	NO	50.83	102	0.0114	50.83
13	13 PCB-30	7.82e5	0.98	NO	1.48	1.000	24.92	24.90	1.040	1.039	NO	50.61	101	0.00721	50.61
14	14 PCB-18	5.28e5	0.97	NO	0.693	1.000	25.66	25.68	0.951	0.952	NO	51.92	104	0.0116	51.92
15	15 PCB-17	5.02e5	0.97	NO	0.667	1.000	25.84	25.85	0.958	0.959	NO	51.28	103	0.0121	51.28
16	16 PCB-24/27	1.38e6	1.01	NO	0.915	1.000	26.46	26.45	0.981	0.981	NO	102.8	103	0.00880	102.8
17	17 PCB-16/32	1.17e6	0.98	NO	0.792	1.000	26.99	26.99	1.001	1.001	NO	100.5	101	0.0102	100.5
18	18 PCB-34	5.90e5	1.05	NO	0.987	1.000	27.80	27.80	0.959	0.959	NO	49.40	98.8	0.0252	49.40
19	19 PCB-23	5.42e5	1.07	NO	0.974	1.000	27.90	27.89	0.962	0.962	NO	46.02	92.0	0.0255	46.02
20	20 PCB-29	5.53e5	1.05	NO	0.953	1.000	28.13	28.15	0.970	0.971	NO	47.92	95.8	0.0261	47.91
21	21 PCB-26	5.80e5	1.05	NO	1.00	1.000	28.38	28.38	0.979	0.979	NO	47.88	95.8	0.0248	47.88
22	22 PCB-25	5.76e5	1.08	NO	0.978	1.000	28.53	28.55	0.984	0.985	NO	48.65	97.3	0.0254	48.65
23	23 PCB-31	6.40e5	1.05	NO	1.12	1.000	28.92	28.90	0.998	0.997	NO	47.08	94.2	0.0221	47.08
24	24 PCB-28	6.48e5	1.06	NO	1.11	1.000	29.01	29.01	1.001	1.001	NO	48.41	96.8	0.0225	48.41
25	25 PCB-20/21/33	1.69e6	1.05	NO	1.00	1.000	29.66	29.64	1.023	1.023	NO	139.2	92.8	0.0248	139.2
26	26 PCB-22	6.18e5	1.04	NO	1.03	1.000	30.14	30.11	1.039	1.038	NO	49.48	99.0	0.0240	49.48
27	27 PCB-36	6.46e5	1.07	NO	1.18	1.000	30.70	30.74	0.930	0.932	NO	42.15	84.3	0.0200	42.15
28	28 PCB-39	5.92e5	1.08	NO	1.08	1.000	31.19	31.22	0.945	0.946	NO	41.89	83.8	0.0217	41.89
29	29 PCB-38	6.73e5	1.07	NO	1.13	1.000	32.00	32.02	0.970	0.971	NO	45.82	91.6	0.0209	45.82
30	30 PCB-35	6.69e5	1.07	NO	1.13	1.000	32.55	32.56	0.987	0.987	NO	45.36	90.7	0.0208	45.36
31	31 PCB-37	6.69e5	1.05	NO	1.11	1.000	33.03	33.01	1.001	1.001	NO	46.43	92.9	0.0213	46.43
32	32 PCB-54	5.95e5	0.75	NO	0.996	1.000	27.84	27.86	1.001	1.001	NO	48.77	97.5	0.0237	48.77

Dataset: U:\VG11.PRO\Results\191106K2\191106K2-2.qld

Last Altered: Thursday, November 07, 2019 07:55:07 Pacific Standard Time  
Printed: Thursday, November 07, 2019 13:56:49 Pacific Standard Time

Name: 191106K2\_2, Date: 07-Nov-2019, Time: 01:20:30, ID: ST191106K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50	4.66e5	0.73	NO	0.781	1.000	29.08	29.05	1.045	1.044	NO	48.69	97.4	0.0302	48.69
34	34 PCB-53	4.21e5	0.74	NO	0.955	1.000	29.71	29.72	0.943	0.944	NO	44.58	89.2	0.0300	44.58
35	35 PCB-51	4.66e5	0.74	NO	1.02	1.000	30.06	30.07	0.955	0.955	NO	46.04	92.1	0.0280	46.04
36	36 PCB-45	3.78e5	0.71	NO	0.808	1.000	30.49	30.52	0.969	0.969	NO	47.29	94.6	0.0355	47.29
37	37 PCB-46	3.69e5	0.73	NO	0.754	1.000	31.01	31.02	0.985	0.985	NO	49.51	99.0	0.0381	49.51
38	38 PCB-52/69	1.10e6	0.73	NO	1.09	1.000	31.52	31.52	1.001	1.001	NO	102.3	102	0.0263	102.3
39	39 PCB-73	6.33e5	0.74	NO	1.29	1.000	31.65	31.65	1.005	1.005	NO	49.62	99.2	0.0223	49.62
40	40 PCB-43/49	9.37e5	0.74	NO	0.940	1.000	31.81	31.82	1.010	1.011	NO	100.8	101	0.0305	100.8
41	41 PCB-47	4.65e5	0.75	NO	0.869	1.000	32.03	32.02	1.001	1.001	NO	50.00	100	0.0311	50.00
42	42 PCB-48/75	1.09e6	0.74	NO	1.02	1.000	32.14	32.14	1.004	1.004	NO	99.42	99.4	0.0264	99.42
43	43 PCB-65	6.03e5	0.74	NO	1.11	1.000	32.41	32.42	1.013	1.013	NO	50.79	102	0.0244	50.79
44	44 PCB-62	5.64e5	0.74	NO	1.07	1.000	32.52	32.53	1.016	1.016	NO	49.44	98.9	0.0254	49.44
45	45 PCB-44	4.10e5	0.74	NO	0.761	1.000	32.86	32.84	1.027	1.026	NO	50.29	101	0.0355	50.29
46	46 PCB-42/59	1.04e6	0.75	NO	0.960	1.000	33.08	33.08	1.033	1.034	NO	101.2	101	0.0282	101.2
47	47 PCB-41/64/71/72	2.35e6	0.74	NO	1.08	1.000	33.70	33.68	1.053	1.052	NO	202.6	101	0.0250	202.6
48	48 PCB-68	6.17e5	0.73	NO	1.11	1.000	33.99	33.96	1.062	1.061	NO	51.99	104	0.0244	51.99
49	49 PCB-40	3.12e5	0.74	NO	0.577	1.000	34.21	34.18	1.069	1.068	NO	50.52	101	0.0469	50.52
50	50 PCB-57	6.50e5	0.73	NO	1.05	1.000	34.53	34.56	0.969	0.969	NO	52.18	104	0.0239	52.18
51	51 PCB-67	6.03e5	0.73	NO	0.993	1.000	34.86	34.87	0.978	0.978	NO	51.09	102	0.0252	51.09
52	52 PCB-58	6.69e5	0.75	NO	1.11	1.000	34.99	34.98	0.981	0.981	NO	50.66	101	0.0225	50.66
53	53 PCB-63	5.91e5	0.73	NO	0.962	1.000	35.14	35.15	0.986	0.986	NO	51.75	103	0.0260	51.74
54	54 PCB-74	6.33e5	0.75	NO	1.07	1.000	35.45	35.45	0.994	0.994	NO	49.98	100	0.0235	49.98
55	55 PCB-61/70	1.16e6	0.74	NO	0.986	1.000	35.67	35.67	1.000	1.000	NO	99.07	99.1	0.0254	99.06
56	56 PCB-76/66	1.24e6	0.74	NO	1.07	1.000	35.83	35.84	1.005	1.005	NO	97.91	97.9	0.0235	97.91
57	57 PCB-80	6.35e5	0.75	NO	1.08	1.000	36.10	36.10	1.001	1.000	NO	49.11	98.2	0.0228	49.11
58	58 PCB-55	6.08e5	0.75	NO	1.07	1.000	36.42	36.44	1.010	1.010	NO	47.67	95.3	0.0231	47.67
59	59 PCB-56/60	1.05e6	0.74	NO	0.934	1.000	36.96	36.94	1.024	1.024	NO	93.93	93.9	0.0264	93.93
60	60 PCB-79	5.90e5	0.74	NO	1.04	1.000	38.06	38.05	1.055	1.055	NO	47.30	94.6	0.0236	47.30
61	61 PCB-78	5.54e5	0.73	NO	1.03	1.000	38.76	38.76	0.987	0.987	NO	48.46	96.9	0.0264	48.46
62	62 PCB-81	5.17e5	0.74	NO	0.933	1.000	39.30	39.30	1.000	1.000	NO	50.01	100	0.0293	50.01
63	63 PCB-77	5.79e5	0.74	NO	1.03	1.000	39.92	39.93	1.000	1.001	NO	50.71	101	0.0270	50.71
64	64 PCB-104	5.77e5	1.55	NO	0.995	1.000	32.69	32.69	1.001	1.001	NO	54.31	109	0.0133	54.31
65	65 PCB-96	5.74e5	1.52	NO	0.996	1.000	34.02	34.00	1.041	1.040	NO	53.94	108	0.0133	53.94
66	66 PCB-103	4.45e5	1.53	NO	0.774	1.000	34.59	34.57	1.059	1.058	NO	53.72	107	0.0170	53.72
67	67 PCB-100	4.45e5	1.54	NO	0.778	1.000	34.97	34.93	1.070	1.069	NO	53.57	107	0.0170	53.57
68	68 PCB-94	3.53e5	1.58	NO	0.773	1.000	35.43	35.41	0.985	0.985	NO	55.79	112	0.0225	55.79

Dataset: U:\VG11.PRO\Results\191106K2\191106K2-2.qld

Last Altered: Thursday, November 07, 2019 07:55:07 Pacific Standard Time

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Name: 191106K2\_2, Date: 07-Nov-2019, Time: 01:20:30, ID: ST191106K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102	1.36e6	1.54	NO	1.01	1.000	35.90	35.91	0.999	0.999	NO	163.8	109.75-125%	0.0171	163.8
70	70 PCB-93	3.08e5	1.59	NO	0.841	1.000	36.03	36.04	1.002	1.003	NO	44.74	89.5	0.0207	44.74
71	71 PCB-88/91	7.49e5	1.58	NO	0.890	1.000	36.38	36.38	1.012	1.012	NO	103.0	103	0.0196	103.0
72	72 PCB-121	5.44e5	1.57	NO	1.39	1.000	36.50	36.47	1.015	1.015	NO	47.99	96.0	0.0125	47.98
73	73 PCB-84/92	6.78e5	1.58	NO	0.879	1.000	37.33	37.33	0.990	0.990	NO	107.5	107	0.0225	107.5
74	74 PCB-89	3.75e5	1.58	NO	0.959	1.000	37.51	37.51	0.995	0.995	NO	54.43	109	0.0206	54.43
75	75 PCB-90/101	7.30e5	1.56	NO	0.944	1.000	37.72	37.72	1.000	1.000	NO	107.6	108	0.0209	107.6
76	76 PCB-113	4.99e5	1.59	NO	1.23	1.000	37.97	37.96	1.007	1.007	NO	56.42	113	0.0161	56.42
77	77 PCB-99	4.16e5	1.54	NO	1.12	1.000	38.07	38.05	1.010	1.009	NO	51.78	104	0.0177	51.78
78	78 PCB-119	4.95e5	1.51	NO	1.47	1.000	38.53	38.54	0.987	0.987	NO	53.83	108	0.0158	53.83
79	79 PCB-108/112	8.55e5	1.51	NO	1.25	1.000	38.69	38.71	0.991	0.991	NO	109.5	110	0.0186	109.5
80	80 PCB-83	5.21e5	1.57	NO	1.55	1.000	38.85	38.87	0.995	0.996	NO	53.87	108	0.0150	53.87
81	81 PCB-97	3.79e5	1.49	NO	1.07	1.000	39.08	39.08	1.001	1.001	NO	56.41	113	0.0216	56.41
82	82 PCB-86	3.39e5	1.56	NO	0.996	1.000	39.23	39.23	1.005	1.005	NO	54.54	109	0.0233	54.54
83	83 PCB-87/117/125	1.39e6	1.59	NO	1.33	1.000	39.34	39.36	1.008	1.008	NO	166.9	111	0.0174	166.9
84	84 PCB-111/115	1.11e6	1.61	NO	1.60	1.000	39.51	39.52	1.012	1.012	NO	111.3	111	0.0145	111.3
85	85 PCB-85/116	8.45e5	1.58	NO	1.22	1.000	39.63	39.63	1.015	1.015	NO	111.2	111	0.0191	111.2
86	86 PCB-120	5.80e5	1.59	NO	1.68	1.000	39.90	39.90	1.022	1.022	NO	55.25	110	0.0138	55.25
87	87 PCB-110	5.21e5	1.62	NO	1.49	1.000	40.04	40.04	1.026	1.026	NO	56.07	112	0.0156	56.07
88	88 PCB-82	3.18e5	1.55	NO	0.674	1.000	40.68	40.68	0.976	0.975	NO	54.66	109	0.0250	54.66
89	89 PCB-124	5.24e5	1.54	NO	1.16	1.000	41.40	41.40	0.993	0.993	NO	52.23	104	0.0145	52.23
90	90 PCB-107/109	1.05e6	1.60	NO	1.17	1.000	41.55	41.53	0.996	0.996	NO	104.5	104	0.0145	104.5
91	91 PCB-123	4.76e5	1.59	NO	1.04	1.000	41.72	41.72	1.000	1.000	NO	53.00	106	0.0162	53.00
92	92 PCB-106/118	1.03e6	1.58	NO	1.07	1.000	41.92	41.92	1.001	1.001	NO	108.5	108	0.0152	108.5
93	93 PCB-114	4.84e5	1.58	NO	1.16	1.000	42.58	42.58	1.000	1.000	NO	48.27	96.5	0.0217	48.27
94	94 PCB-122	4.19e5	1.62	NO	0.973	1.000	42.71	42.71	1.003	1.004	NO	49.89	99.8	0.0259	49.89
95	95 PCB-105	4.61e5	1.60	NO	1.10	1.000	43.47	43.47	1.000	1.000	NO	48.41	96.8	0.0231	48.41
96	96 PCB-127	4.89e5	1.56	NO	1.11	1.000	43.83	43.83	1.000	1.000	NO	48.42	96.8	0.0220	48.42
97	97 PCB-126	4.96e5	1.56	NO	1.21	1.000	45.78	45.78	1.000	1.000	NO	48.88	97.8	0.0221	48.88
98	98 PCB-155	3.28e5	1.30	NO	0.874	1.000	37.24	37.25	1.000	1.001	NO	54.35	109	0.00980	54.35
99	99 PCB-150	3.45e5	1.25	NO	0.881	1.000	38.56	38.56	1.036	1.036	NO	56.80	114	0.00972	56.80
100	1... PCB-152	3.96e5	1.25	NO	1.00	1.000	39.07	39.04	1.050	1.049	NO	57.03	114	0.00853	57.03
101	1... PCB-145	4.04e5	1.30	NO	1.00	1.000	39.53	39.51	1.062	1.061	NO	58.55	117	0.00857	58.55
102	1... PCB-136	3.47e5	1.32	NO	0.843	1.000	39.86	39.84	1.071	1.071	NO	59.54	119	0.0102	59.55
103	1... PCB-148	2.77e5	1.35	NO	0.693	1.000	40.00	39.95	1.075	1.074	NO	57.83	116	0.0124	57.83
104	1... PCB-154	2.95e5	1.25	NO	0.724	1.000	40.50	40.45	1.088	1.087	NO	59.02	118	0.0118	59.02

Dataset: U:\VG11.PRO\Results\191106K2\191106K2-2.qld

Last Altered: Thursday, November 07, 2019 07:55:07 Pacific Standard Time  
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Name: 191106K2\_2, Date: 07-Nov-2019, Time: 01:20:30, ID: ST191106K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151	2.55e5	1.26	NO	0.632	1.000	41.17	41.12	1.106	1.105	NO	58.38	117 <del>75-125%</del>	0.0136	58.38
106	1... PCB-135	2.92e5	1.29	NO	0.716	1.000	41.34	41.35	1.111	1.111	NO	59.11	118	0.0120	59.11
107	1... PCB-144	2.54e5	1.28	NO	0.667	1.000	41.44	41.46	1.114	1.114	NO	55.17	110	0.0128	55.17
108	1... PCB-147	2.78e5	1.28	NO	0.661	1.000	41.59	41.59	1.118	1.117	NO	60.82	122	0.0130	60.82
109	1... PCB-139/149	6.07e5	1.30	NO	0.738	1.000	41.93	41.87	1.127	1.125	NO	119.1	119	0.0116	119.1
110	1... PCB-140	2.59e5	1.32	NO	0.627	1.000	42.11	42.06	1.132	1.130	NO	59.70	119	0.0137	59.70
111	1... PCB-134/143	6.48e5	1.22	NO	0.733	1.000	42.53	42.51	0.975	0.974	NO	104.1	104	0.0510	104.1
112	1... PCB-131/133	6.94e5	1.20	NO	0.790	1.000	42.81	42.81	0.982	0.981	NO	103.5	103	0.0473	103.5
113	1... PCB-142	3.11e5	1.21	NO	0.708	1.000	42.97	42.98	0.985	0.985	NO	51.70	103	0.0528	51.70
114	1... PCB-146/165	8.29e5	1.19	NO	0.959	1.000	43.22	43.21	0.991	0.990	NO	101.8	102	0.0390	101.8
115	1... PCB-132/161	8.37e5	1.21	NO	0.974	1.000	43.46	43.45	0.996	0.996	NO	101.3	101	0.0384	101.3
116	1... PCB-153	4.28e5	1.20	NO	1.01	1.000	43.64	43.64	1.000	1.000	NO	49.86	99.7	0.0369	49.86
117	1... PCB-168	4.38e5	1.18	NO	1.02	1.000	43.87	43.87	1.006	1.006	NO	50.63	101	0.0367	50.63
118	1... PCB-141	3.53e5	1.21	NO	0.967	1.000	44.40	44.40	1.000	1.000	NO	49.89	99.8	0.0448	49.89
119	1... PCB-137	3.55e5	1.18	NO	0.987	1.000	44.78	44.80	1.009	1.009	NO	49.06	98.1	0.0438	49.06
120	1... PCB-130	2.97e5	1.23	NO	0.840	1.000	44.90	44.91	1.012	1.012	NO	48.34	96.7	0.0515	48.34
121	1... PCB-138/163/164	1.34e6	1.21	NO	1.23	1.000	45.29	45.29	1.001	1.001	NO	150.8	101	0.0357	150.8
122	1... PCB-158/160	8.61e5	1.19	NO	1.18	1.000	45.54	45.54	1.006	1.006	NO	100.6	101	0.0372	100.6
123	1... PCB-129	2.96e5	1.19	NO	0.819	1.000	45.79	45.78	1.012	1.012	NO	49.66	99.3	0.0534	49.66
124	1... PCB-166	4.77e5	1.19	NO	1.07	1.000	46.26	46.26	0.993	0.993	NO	51.51	103	0.0354	51.51
125	1... PCB-159	5.00e5	1.21	NO	1.12	1.000	46.60	46.60	1.000	1.000	NO	51.52	103	0.0338	51.52
126	1... PCB-128/162	7.71e5	1.18	NO	0.851	1.000	46.88	46.90	1.007	1.007	NO	104.6	105	0.0444	104.6
127	1... PCB-167	4.66e5	1.22	NO	1.04	1.000	47.30	47.30	1.000	1.000	NO	50.41	101	0.0353	50.41
128	1... PCB-156	4.88e5	1.19	NO	1.06	1.000	48.62	48.64	1.000	1.001	NO	51.07	102	0.0352	51.07
129	1... PCB-157	4.55e5	1.20	NO	0.978	1.000	48.93	48.91	1.001	1.000	NO	51.53	103	0.0371	51.53
130	1... PCB-169	4.94e5	1.24	NO	1.11	1.000	51.18	51.18	1.000	1.000	NO	50.11	100	0.0337	50.11
131	1... PCB-188	5.10e5	1.01	NO	1.19	1.000	43.28	43.26	1.001	1.000	NO	52.82	106	0.0307	52.83
132	1... PCB-184	4.89e5	0.99	NO	1.17	1.000	43.73	43.72	1.011	1.011	NO	51.83	104	0.0314	51.83
133	1... PCB-179	5.07e5	1.05	NO	1.18	1.000	44.54	44.51	1.030	1.029	NO	53.31	107	0.0312	53.31
134	1... PCB-176	4.92e5	1.06	NO	1.16	1.000	45.01	45.01	1.041	1.041	NO	52.49	105	0.0316	52.49
135	1... PCB-186	5.39e5	1.03	NO	1.22	1.000	45.63	45.63	1.055	1.055	NO	54.77	110	0.0301	54.77
136	1... PCB-178	3.58e5	1.05	NO	0.830	1.000	46.14	46.14	1.067	1.067	NO	53.30	107	0.0442	53.30
137	1... PCB-175	3.66e5	1.03	NO	0.849	1.000	46.50	46.50	1.075	1.075	NO	53.36	107	0.0432	53.36
138	1... PCB-182/187	8.35e5	1.05	NO	0.960	1.000	46.70	46.69	1.080	1.080	NO	107.5	108	0.0382	107.5
139	1... PCB-183	4.12e5	1.02	NO	0.957	1.000	47.03	47.01	1.088	1.087	NO	53.26	107	0.0383	53.26
140	1... PCB-185	3.63e5	1.01	NO	1.32	1.000	47.68	47.68	0.955	0.955	NO	50.97	102	0.0412	50.97

Dataset: U:\VG11.PRO\Results\191106K2\191106K2-2.qld

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Name: 191106K2\_2, Date: 07-Nov-2019, Time: 01:20:30, ID: ST191106K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174	3.44e5	1.02	NO	1.22	1.000	48.05	48.06	0.962	0.962	NO	52.29	105 <del>75-125%</del>	0.0446	52.29
142	1... PCB-181	3.84e5	1.03	NO	1.41	1.000	48.15	48.17	0.964	0.965	NO	50.27	101	0.0384	50.27
143	1... PCB-177	3.34e5	1.06	NO	1.24	1.000	48.33	48.34	0.968	0.968	NO	49.88	99.8	0.0438	49.88
144	1... PCB-171	3.48e5	1.03	NO	1.24	1.000	48.62	48.64	0.974	0.974	NO	51.88	104	0.0438	51.88
145	1... PCB-173	3.24e5	1.04	NO	1.14	1.000	49.06	49.08	0.983	0.983	NO	52.63	105	0.0476	52.63
146	1... PCB-172	3.64e5	1.04	NO	1.31	1.000	49.55	49.55	0.992	0.992	NO	51.54	103	0.0416	51.54
147	1... PCB-192	4.68e5	1.04	NO	1.70	1.000	49.74	49.74	0.996	0.996	NO	50.97	102	0.0320	50.97
148	1... PCB-180	3.62e5	1.05	NO	1.32	1.000	49.95	49.97	1.000	1.001	NO	50.84	102	0.0412	50.84
149	1... PCB-193	4.15e5	1.03	NO	1.54	1.000	50.18	50.18	1.005	1.005	NO	49.95	99.9	0.0353	49.95
150	1... PCB-191	4.26e5	1.04	NO	1.57	1.000	50.42	50.44	1.010	1.010	NO	50.20	100	0.0345	50.20
151	1... PCB-170	3.15e5	1.03	NO	1.36	1.000	51.62	51.62	1.000	1.000	NO	50.92	102	0.0457	50.92
152	1... PCB-190	4.20e5	1.05	NO	1.84	1.000	51.81	51.83	1.004	1.004	NO	50.20	100	0.0337	50.20
153	1... PCB-189	4.18e5	1.05	NO	1.33	1.000	53.31	53.30	1.000	1.000	NO	54.90	110	0.0330	54.90
154	1... PCB-202	3.63e5	0.93	NO	1.02	1.000	48.87	48.85	1.001	1.000	NO	54.07	108	0.0141	54.07
155	1... PCB-201	3.29e5	0.91	NO	0.915	1.000	49.36	49.34	1.011	1.010	NO	54.92	110	0.0158	54.92
156	1... PCB-204	3.51e5	0.91	NO	0.979	1.000	49.51	49.51	1.014	1.014	NO	54.70	109	0.0148	54.70
157	1... PCB-197	3.49e5	0.92	NO	0.979	1.000	49.83	49.82	1.020	1.020	NO	54.45	109	0.0148	54.45
158	1... PCB-200	3.36e5	0.94	NO	0.954	1.000	50.78	50.76	1.040	1.040	NO	53.75	108	0.0152	53.75
159	1... PCB-198	2.43e5	0.91	NO	0.748	1.000	52.30	52.30	1.071	1.071	NO	49.61	99.2	0.0194	49.62
160	1... PCB-199	2.49e5	0.91	NO	0.706	1.000	52.41	52.43	1.073	1.074	NO	53.77	108	0.0205	53.77
161	1... PCB-196/203	5.14e5	0.92	NO	0.785	1.000	52.87	52.72	1.083	1.079	NO	100.0	100	0.0185	100.0
162	1... PCB-195	3.12e5	0.87	NO	1.03	1.000	53.98	53.99	0.984	0.984	NO	46.11	92.2	0.0176	46.11
163	1... PCB-194	3.74e5	0.89	NO	1.16	1.000	54.90	54.90	1.000	1.000	NO	49.52	99.0	0.0157	49.52
164	1... PCB-205	4.77e5	0.91	NO	1.40	1.000	55.17	55.18	1.005	1.005	NO	52.04	104	0.0130	52.04
165	1... PCB-208	3.63e5	1.33	NO	0.934	1.000	54.14	54.14	1.000	1.000	NO	50.23	100	0.0168	50.23
166	1... PCB-207	3.64e5	1.32	NO	0.912	1.000	54.46	54.48	1.006	1.007	NO	51.57	103	0.0172	51.57
167	1... PCB-206	3.07e5	1.32	NO	0.987	1.000	56.44	56.44	1.000	1.000	NO	49.32	98.6	0.0187	49.32
168	1... PCB-209	3.37e5	1.20	NO	0.943	1.000	57.64	57.65	1.000	1.000	NO	52.03	104	0.00404	52.03
169	1... 13C-PCB-1	1.63e6	3.06	NO	1.08	1.000	15.68	15.68	0.609	0.609	NO	100.7	101 <del>50-145%</del>	0.0558	
170	1... 13C-PCB-3	1.74e6	3.37	NO	1.09	1.000	18.34	18.35	0.712	0.713	NO	106.2	106	0.0552	
171	1... 13C-PCB-4	9.42e5	1.59	NO	0.640	1.000	19.70	19.70	0.765	0.766	NO	97.90	97.9	0.0316	
172	1... 13C-PCB-9	1.41e6	1.60	NO	0.995	1.000	21.54	21.54	0.837	0.837	NO	94.21	94.2	0.0203	
173	1... 13C-PCB-11	1.45e6	1.55	NO	0.971	1.000	25.02	25.02	0.972	0.972	NO	98.94	98.9	0.0208	
174	1... 13C-PCB-19	1.04e6	1.01	NO	0.637	1.000	23.96	23.96	0.931	0.931	NO	108.8	109	0.244	
175	1... 13C-PCB-32	1.47e6	1.02	NO	0.910	1.000	26.98	26.97	1.048	1.048	NO	107.2	107	0.171	
176	1... 13C-PCB-28	1.21e6	1.00	NO	1.07	1.000	28.97	28.99	1.003	1.004	NO	99.50	99.5	0.237	

Dataset: U:\VG11.PRO\Results\191106K2\191106K2-2.qld

Last Altered: Thursday, November 07, 2019 07:55:07 Pacific Standard Time  
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Name: 191106K2\_2, Date: 07-Nov-2019, Time: 01:20:30, ID: ST191106K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	1.30e6	1.01	NO	0.959	1.000	32.97	32.99	1.141	1.142	NO	119.3	119.5	0.264	
178	1... 13C-PCB-54	1.23e6	0.78	NO	1.10	1.000	27.83	27.82	0.754	0.753	NO	102.1	102	0.0441	
179	1... 13C-PCB-52	9.89e5	0.75	NO	0.844	1.000	31.48	31.49	0.853	0.853	NO	107.2	107	0.0573	
180	1... 13C-PCB-47	1.07e6	0.74	NO	0.893	1.000	32.00	32.01	0.867	0.867	NO	109.7	110	0.0542	
181	1... 13C-PCB-70	1.19e6	0.76	NO	1.01	1.000	35.63	35.65	0.965	0.966	NO	107.9	108	0.0480	
182	1... 13C-PCB-80	1.19e6	0.76	NO	1.05	1.000	36.06	36.08	0.977	0.977	NO	104.4	104	0.0463	
183	1... 13C-PCB-81	1.11e6	0.77	NO	0.985	1.000	39.28	39.28	1.064	1.064	NO	103.0	103	0.0491	
184	1... 13C-PCB-77	1.11e6	0.78	NO	0.958	1.000	39.89	39.90	1.080	1.081	NO	105.6	106	0.0505	
185	1... 13C-PCB-104	1.07e6	1.58	NO	1.10	1.000	32.69	32.68	0.827	0.827	NO	106.7	107	0.0354	
186	1... 13C-PCB-95	8.17e5	1.60	NO	0.852	1.000	35.97	35.95	0.910	0.910	NO	105.0	105	0.0455	
187	1... 13C-PCB-101	7.18e5	1.64	NO	0.814	1.000	37.72	37.70	0.955	0.954	NO	96.63	96.6	0.0477	
188	1... 13C-PCB-97	6.25e5	1.60	NO	0.709	1.000	39.06	39.04	0.989	0.988	NO	96.44	96.4	0.0547	
189	1... 13C-PCB-123	8.63e5	1.63	NO	0.922	1.000	41.69	41.70	1.055	1.056	NO	102.5	102	0.0421	
190	1... 13C-PCB-118	8.85e5	1.61	NO	0.975	1.000	41.88	41.89	1.060	1.060	NO	99.34	99.3	0.0398	
191	1... 13C-PCB-114	8.64e5	1.57	NO	1.52	1.000	42.56	42.56	0.908	0.908	NO	88.09	88.1	0.0499	
192	1... 13C-PCB-105	8.65e5	1.57	NO	1.58	1.000	43.45	43.45	0.927	0.927	NO	84.67	84.7	0.0479	
193	1... 13C-PCB-127	9.11e5	1.56	NO	1.62	1.000	43.81	43.81	0.935	0.935	NO	87.03	87.0	0.0468	
194	1... 13C-PCB-126	8.37e5	1.59	NO	1.45	1.000	45.76	45.76	0.976	0.977	NO	89.75	89.8	0.0525	
195	1... 13C-PCB-155	6.91e5	1.30	NO	1.03	1.000	37.23	37.22	0.942	0.942	NO	73.68	73.7	0.0106	
196	1... 13C-PCB-153	8.49e5	1.23	NO	1.42	1.000	43.62	43.62	0.931	0.931	NO	92.36	92.4	0.0571	
197	1... 13C-PCB-141	7.32e5	1.25	NO	1.14	1.000	44.40	44.38	0.947	0.947	NO	99.28	99.3	0.0712	
198	1... 13C-PCB-138	7.26e5	1.24	NO	1.18	1.000	45.25	45.25	0.966	0.966	NO	95.38	95.4	0.0689	
199	1... 13C-PCB-159	8.67e5	1.28	NO	1.43	1.000	46.60	46.58	0.994	0.994	NO	93.69	93.7	0.0567	
200	2... 13C-PCB-167	8.88e5	1.25	NO	1.42	1.000	47.30	47.28	1.009	1.009	NO	96.59	96.6	0.0571	
201	2... 13C-PCB-156	9.04e5	1.24	NO	1.40	1.000	48.62	48.60	1.038	1.037	NO	100.2	100	0.0582	
202	2... 13C-PCB-157	9.03e5	1.25	NO	1.41	1.000	48.91	48.89	1.044	1.043	NO	99.43	99.4	0.0578	
203	2... 13C-PCB-169	8.90e5	1.24	NO	1.35	1.000	51.18	51.16	1.092	1.092	NO	102.4	102	0.0604	
204	2... 13C-PCB-188	8.08e5	0.45	NO	1.46	1.000	43.22	43.24	0.926	0.927	NO	101.6	102	0.0290	
205	2... 13C-PCB-180	5.40e5	0.44	NO	0.932	1.000	49.93	49.93	1.070	1.070	NO	106.5	107	0.0456	
206	2... 13C-PCB-170	4.54e5	0.45	NO	0.796	1.000	51.60	51.60	1.106	1.105	NO	104.9	105	0.0534	
207	2... 13C-PCB-189	5.72e5	0.46	NO	1.09	1.000	53.28	53.28	1.142	1.142	NO	96.42	96.4	0.0389	
208	2... 13C-PCB-202	6.55e5	0.90	NO	1.45	1.000	48.83	48.83	1.046	1.046	NO	83.08	83.1	0.0202	
209	2... 13C-PCB-194	6.54e5	0.88	NO	0.714	1.000	54.90	54.89	0.995	0.995	NO	99.00	99.0	0.0377	
210	2... 13C-PCB-208	7.74e5	0.76	NO	0.896	1.000	54.14	54.13	0.982	0.981	NO	93.35	93.3	0.0307	
211	2... 13C-PCB-206	6.30e5	0.79	NO	0.653	1.000	56.42	56.42	1.023	1.023	NO	104.2	104	0.0422	
212	2... 13C-PCB-209	6.88e5	1.24	NO	0.806	1.000	57.65	57.64	1.045	1.045	NO	92.22	92.2	0.00613	

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#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	1.50e6	1.56	NO	1.00	1.000	25.74	25.74	1.000	0.000	NO	100.0	100	0.0202	
214	2... 13C-PCB-31	1.14e6	1.00	NO	1.00	1.000	28.90	28.88	1.000	0.000	NO	100.0	100	0.253	
215	2... 13C-PCB-60	1.09e6	0.77	NO	1.00	1.000	36.94	36.92	1.000	0.000	NO	100.0	100	0.0484	
216	2... 13C-PCB-111	9.14e5	1.57	NO	1.00	1.000	39.51	39.51	1.000	0.000	NO	100.0	100	0.0388	
217	2... 13C-PCB-128	6.45e5	1.26	NO	1.00	1.000	46.86	46.86	1.000	0.000	NO	100.0	100	0.0813	
218	2... 13C-PCB-182	5.44e5	0.45	NO	1.00	1.000	46.69	46.67	0.000	0.000	NO	100.0	100	0.0425	
219	2... 13C-PCB-205	9.26e5	0.90	NO	1.00	1.000	55.16	55.16	1.000	0.000	NO	100.0	100	0.0269	
220	2... 13C-PCB-79	1.11e6	0.75	NO	1.03	1.000	38.05	38.03	1.031	1.030	NO	98.58	98.6	0.0469	
221	2... 13C-PCB-178	5.07e5	0.44	NO	0.875	1.000	46.12	46.12	0.988	0.988	NO	89.89	89.9	0.0409	
222	2... 13C-PCB-79	1.11e6	0.75	NO	1.05	1.000	38.01	38.03	0.967	0.968	NO	96.00	96.0	0.0464	
223	2... 13C-PCB-178	5.07e5	0.44	NO	0.975	1.000	46.12	46.12	0.924	0.924	NO	96.40	96.4	0.0445	

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Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Compound name: PCB-1

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1	191106K2_1	SOLVENT BLANK	07-Nov-19	00:18:52
2	191106K2_2	ST191106K2-1 PCB 209 CS3 19C1106	07-Nov-19	01:20:30
3	191106K2_3	B9K0053-BS1 OPR 1	07-Nov-19	02:22:02
4	191106K2_4	SOLVENT BLANK	07-Nov-19	03:22:44
5	191106K2_5	B9K0053-BLK1 Method Blank 1	07-Nov-19	04:23:37
6	191106K2_6	1903655-04 PDI-FB-1910101246 1.01039	07-Nov-19	05:24:32
7	191106K2_7	1903655-05 PDI-RB-1910101241 1.00527	07-Nov-19	06:26:36
8	191106K2_8	1903665-01 OWS-FDBL-T191015134348 0.9...	07-Nov-19	07:28:08
9	191106K2_9	1903588-05@20X A4-FPS-211-0-12-0919-MD...	07-Nov-19	08:28:52
10	191106K2_10	1903588-06@20X A4-FPS-211-12-24-0919-M...	07-Nov-19	09:29:44
11	191106K2_11	1903588-09@20X A4-FPS-205-0-12-0919-MD...	07-Nov-19	10:30:35
12	191106K2_12	1903588-03 A4-FPS-204-0-12-0919-MDNR-S ...	07-Nov-19	11:31:25



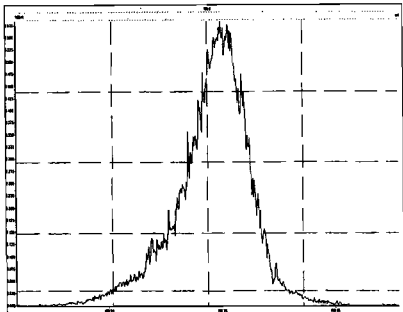
Resolution Check Report

MassLynx 4.1 SCN815

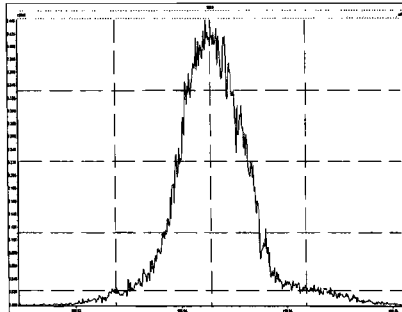
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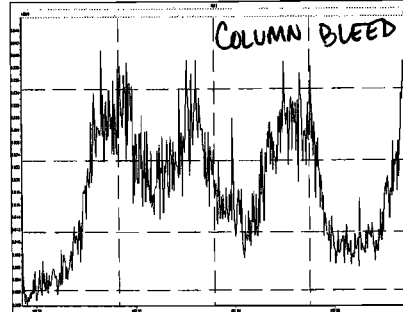
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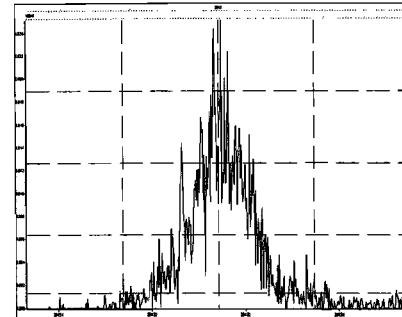
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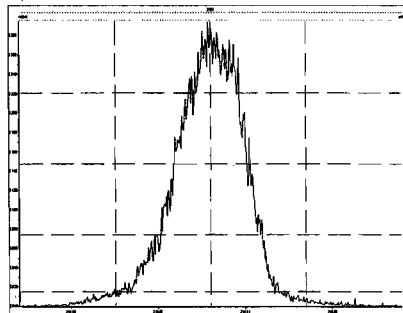
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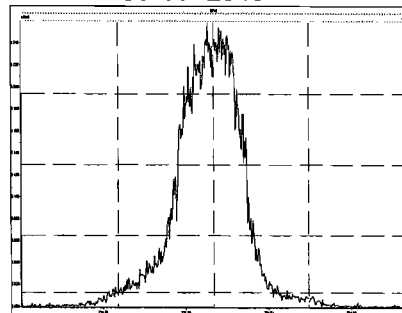
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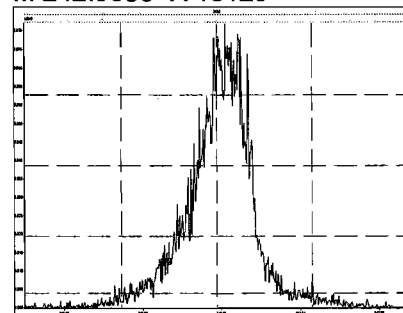
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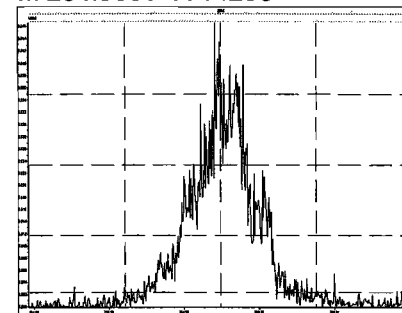
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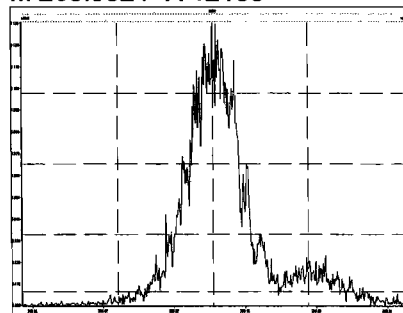
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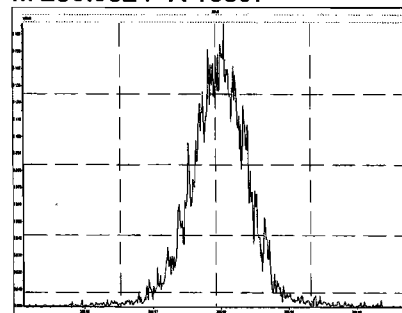
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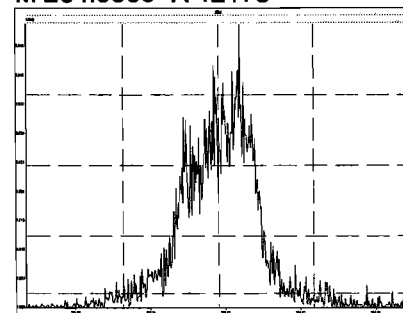
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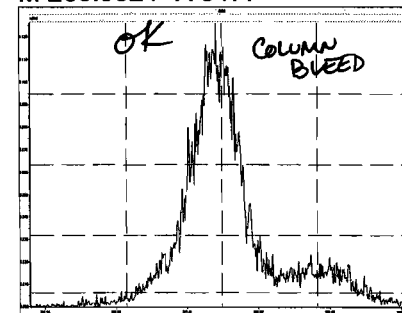
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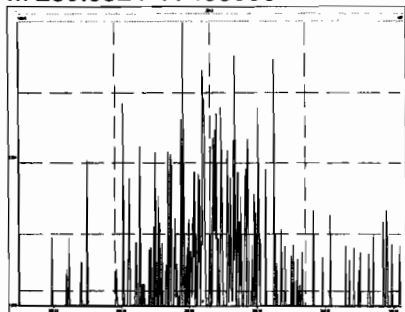
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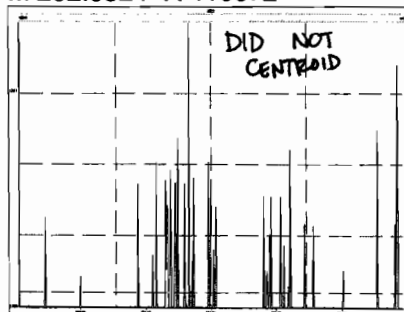
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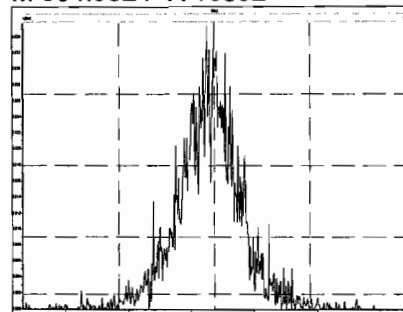
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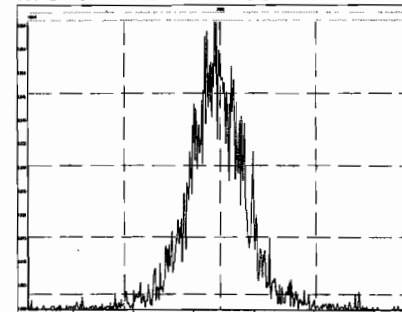
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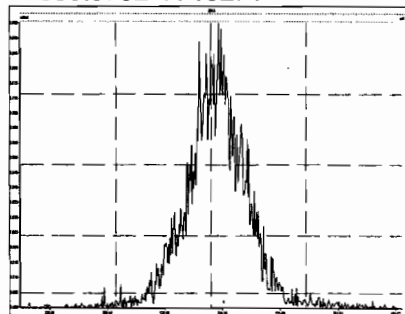
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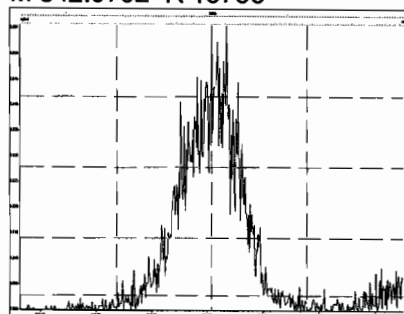
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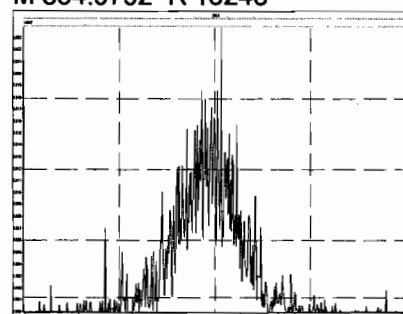
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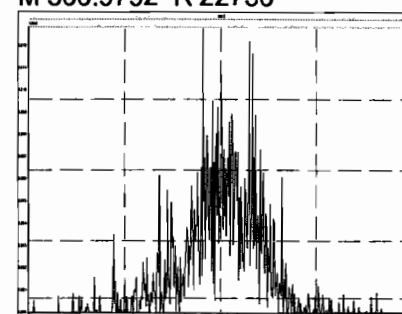
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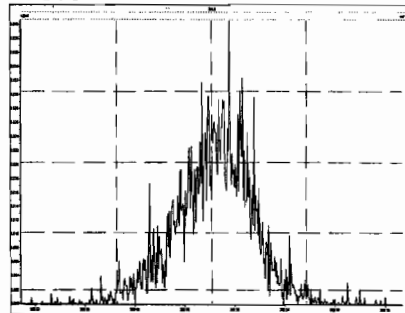
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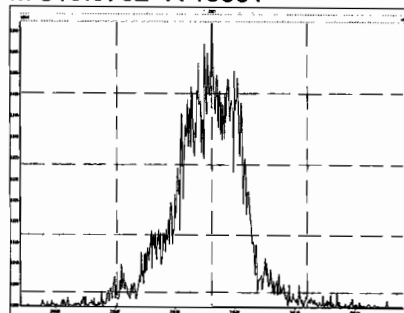
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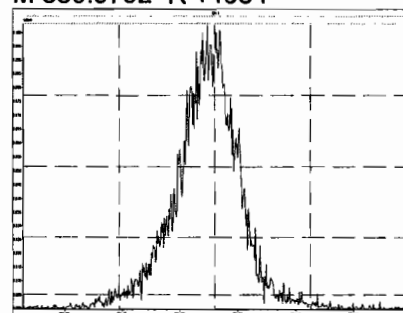
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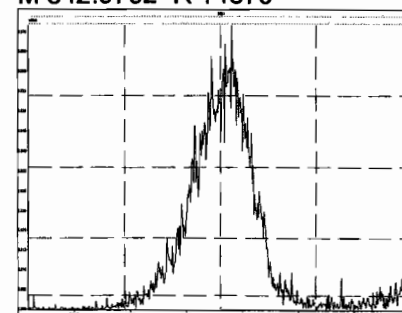
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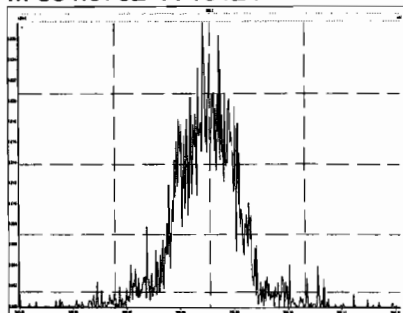


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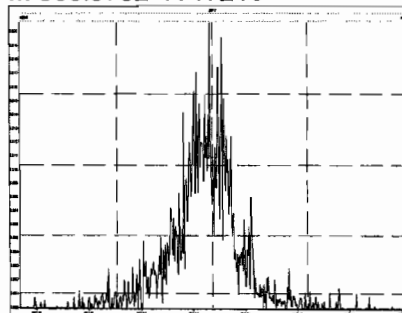


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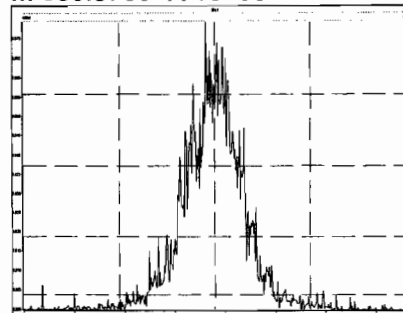
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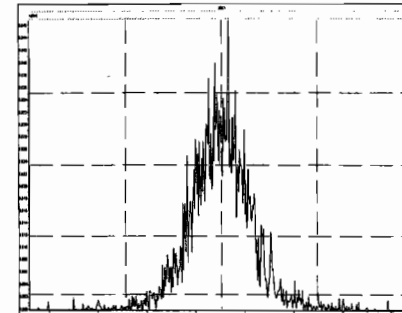
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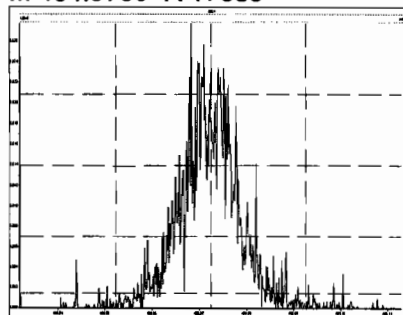
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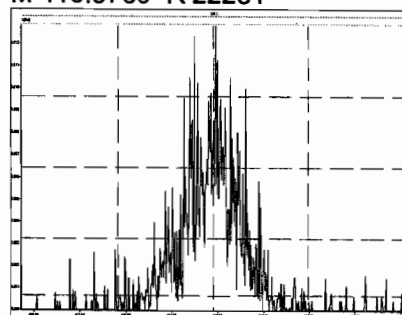
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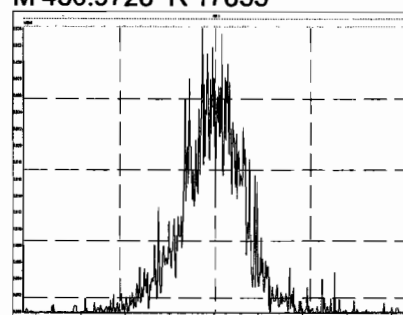
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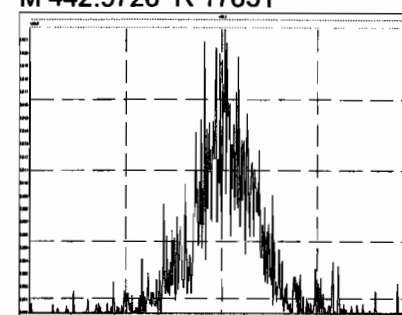
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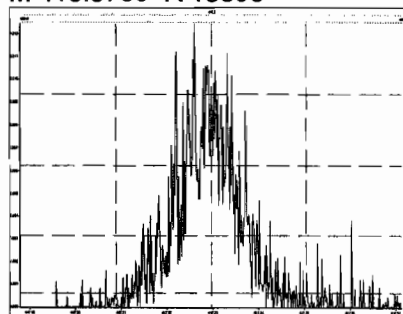
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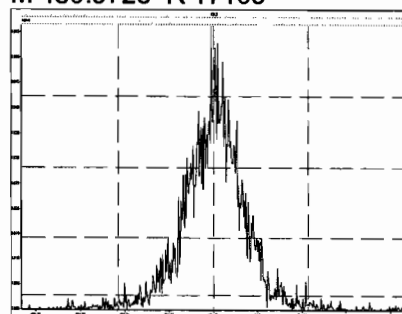
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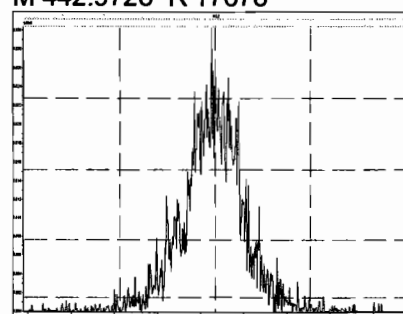
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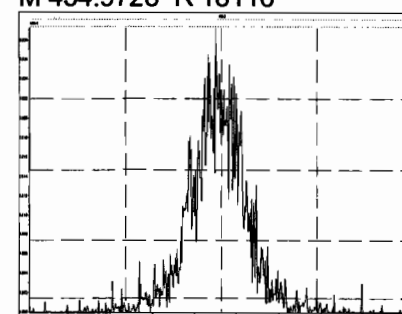
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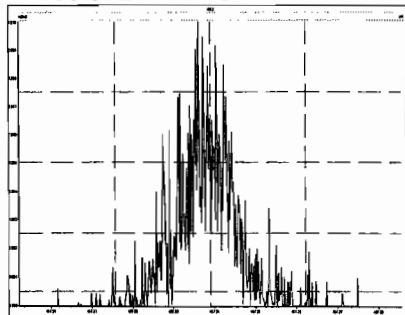


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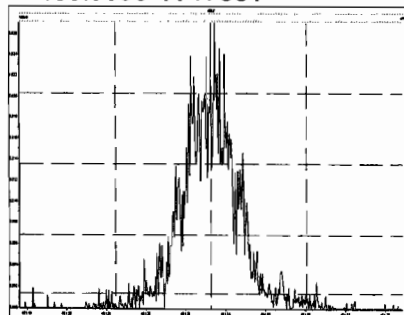


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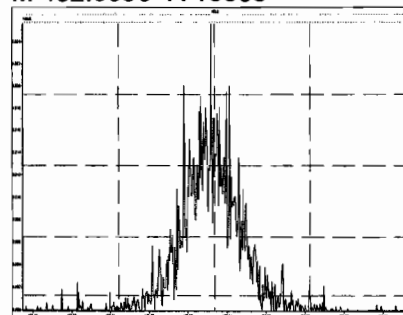
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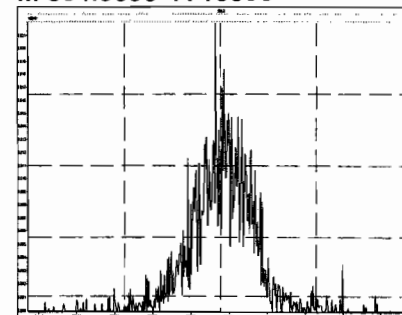
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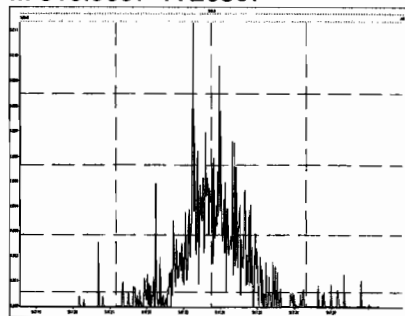
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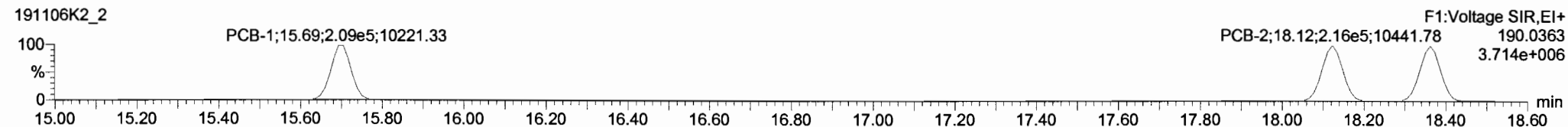
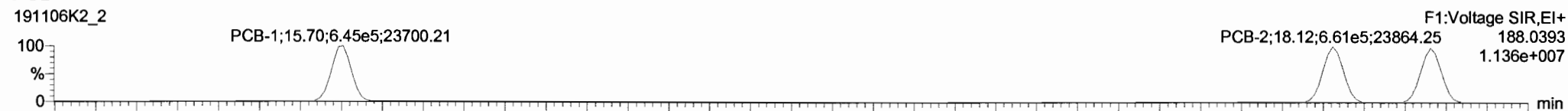
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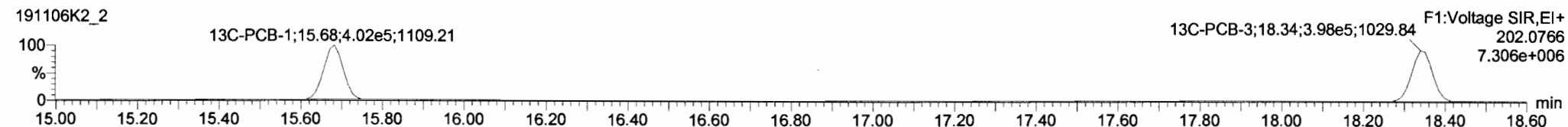
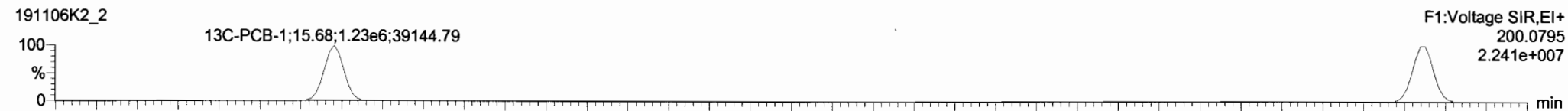
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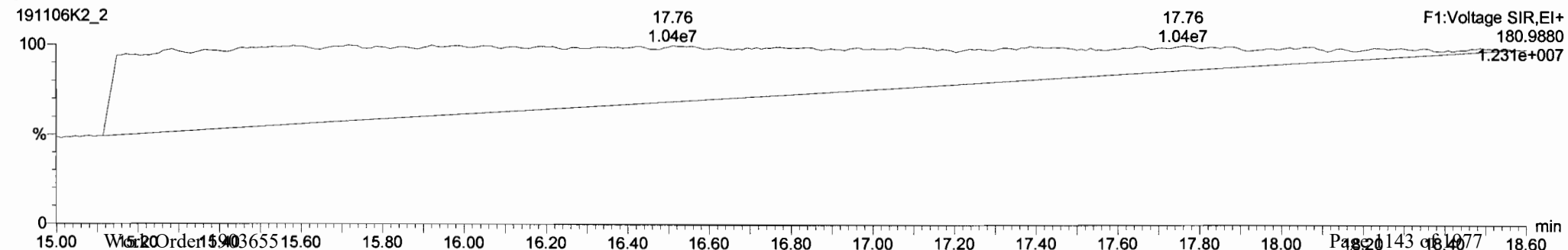
**PCB-1**



**13C-PCB-1**



**PFK1**



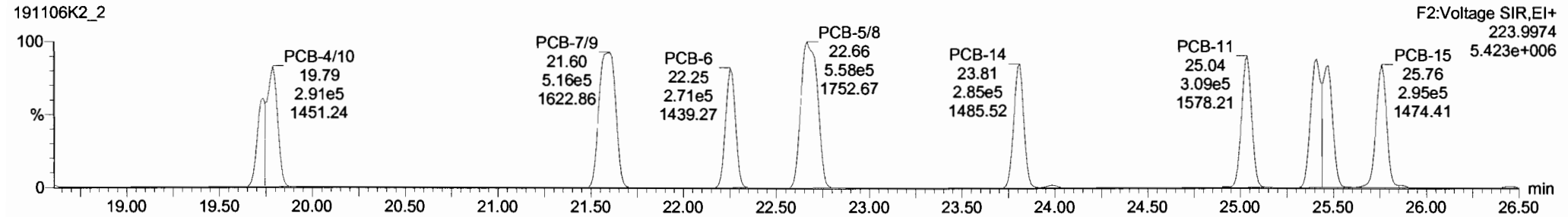
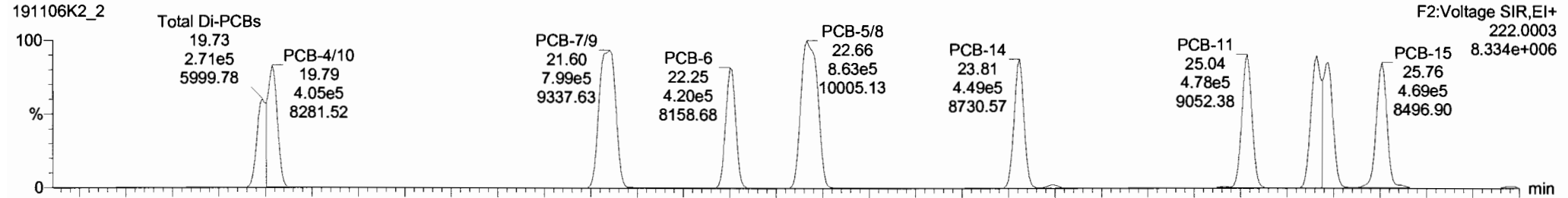
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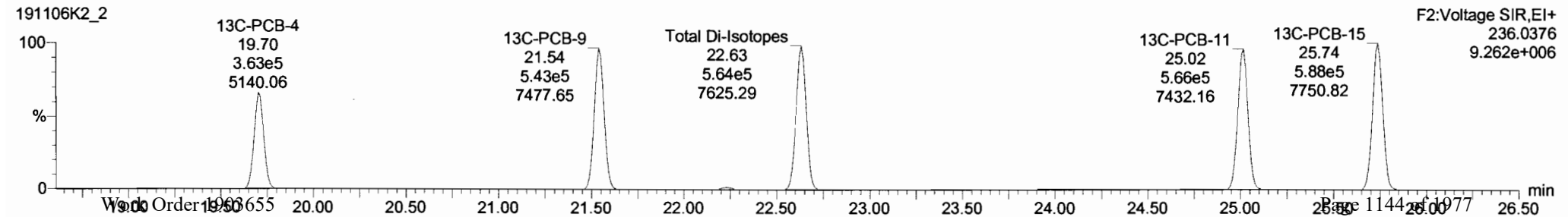
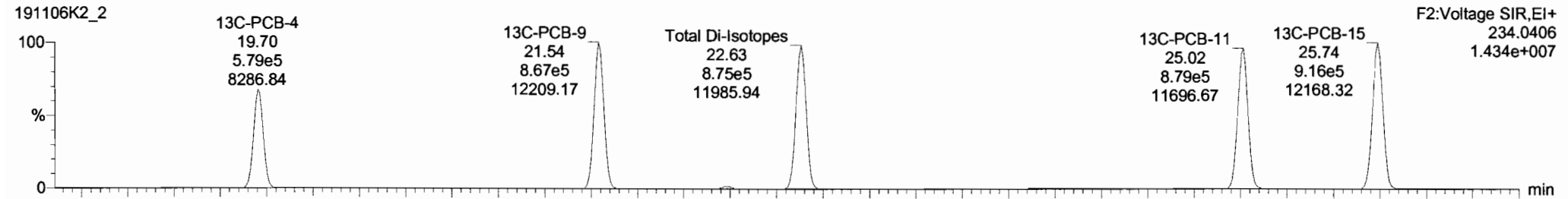
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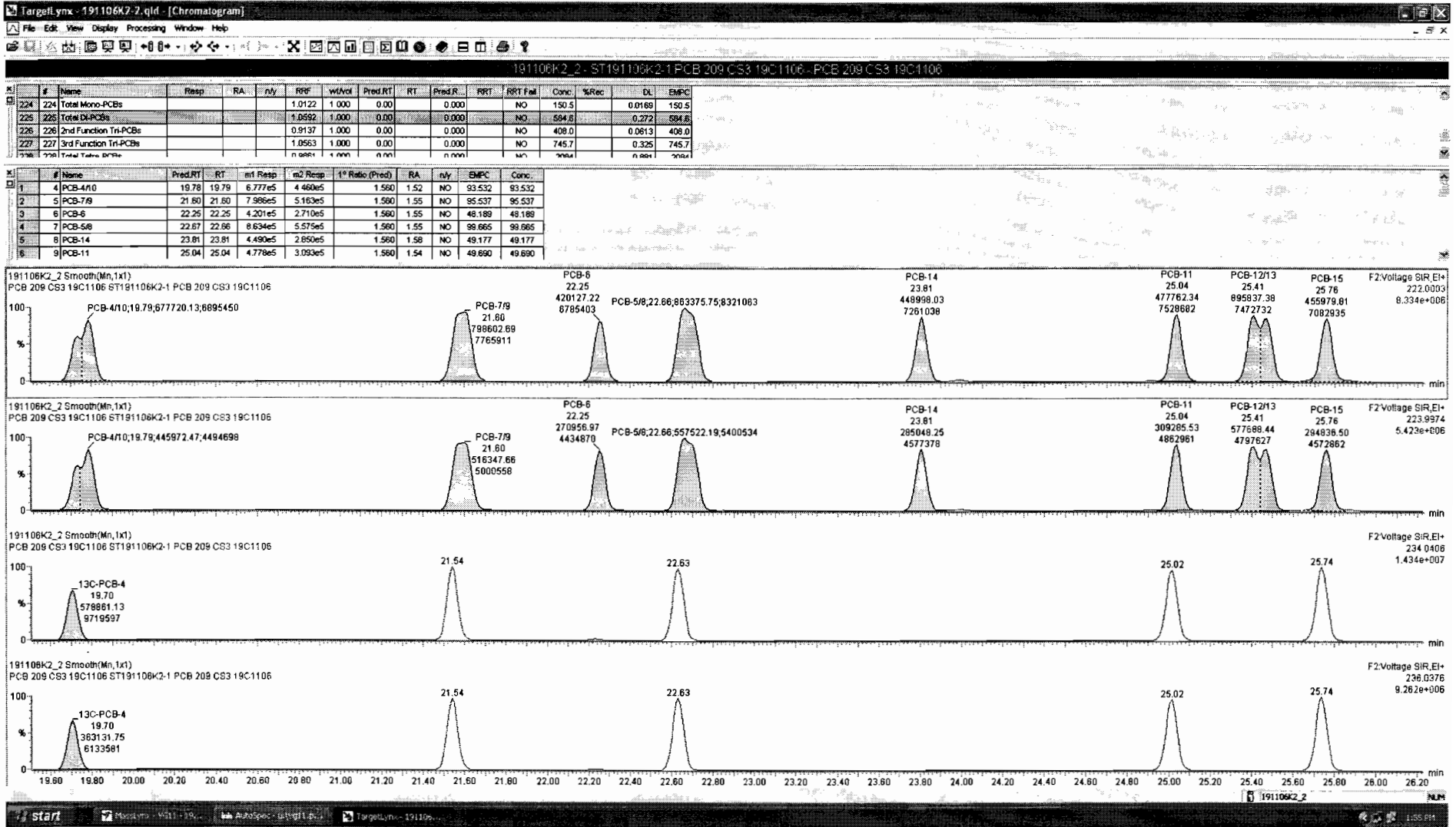
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**PCB-4/10**



**13C-PCB-4**





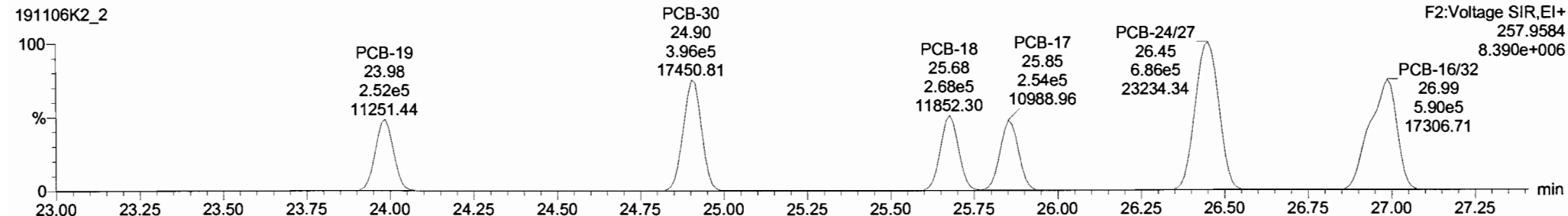
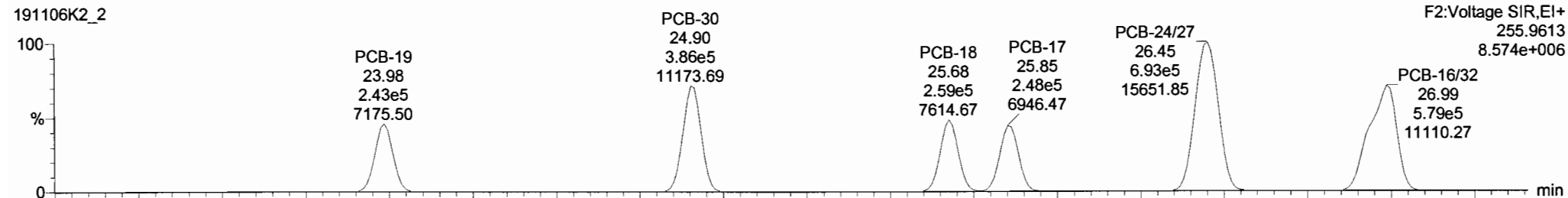
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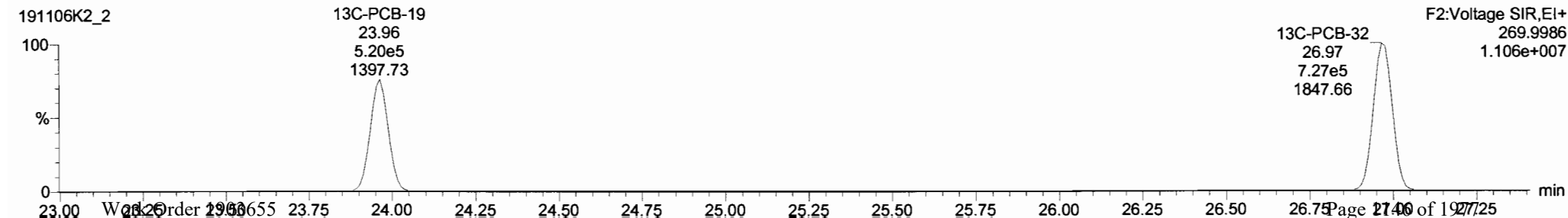
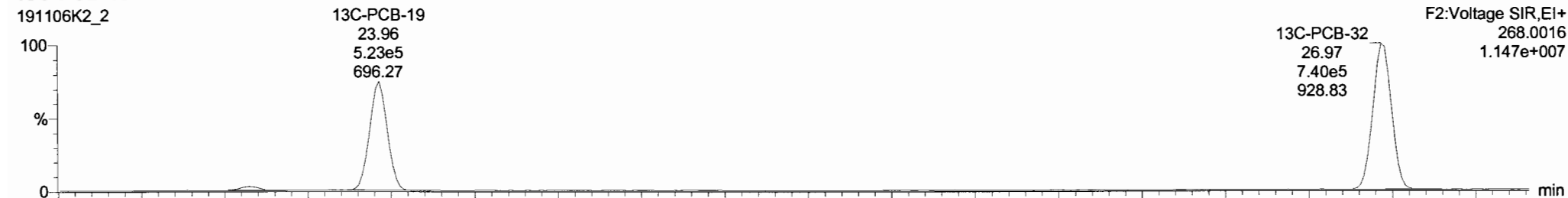
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**PCB-19**



**13C-PCB-19**





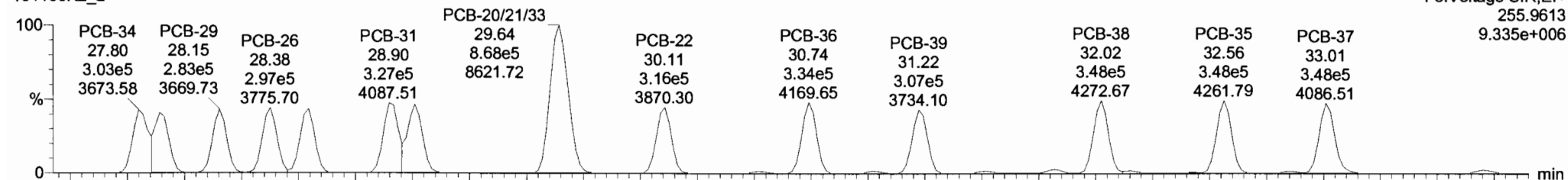
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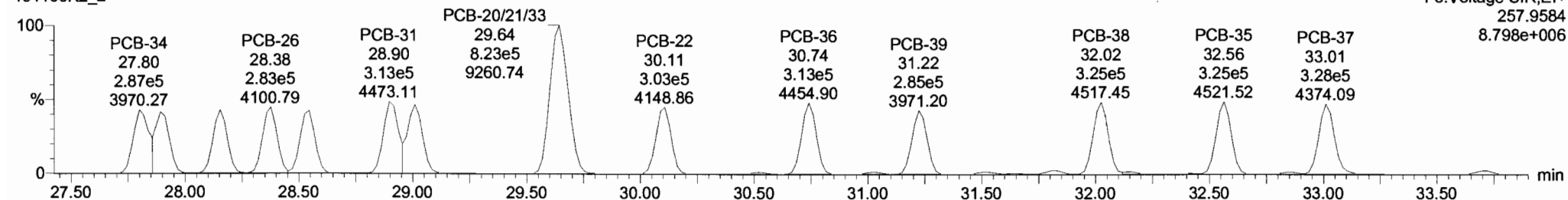
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**PCB-34**

191106K2\_2



191106K2\_2

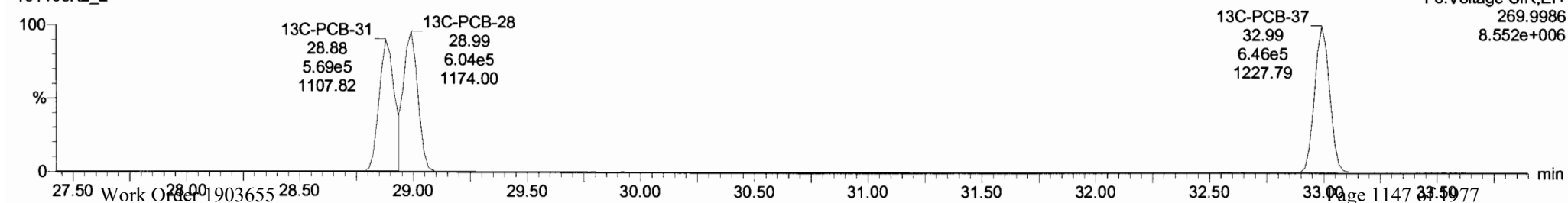


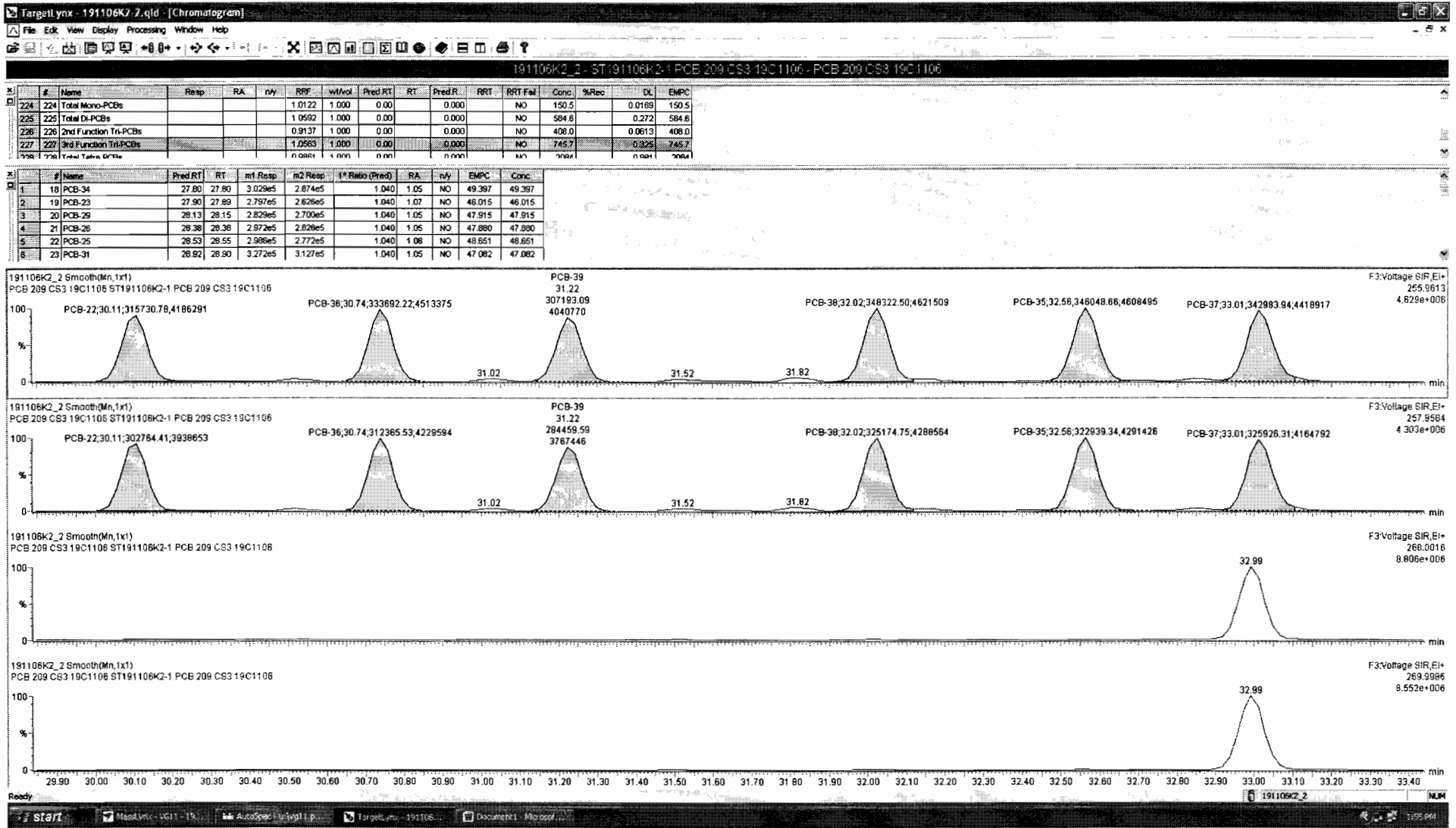
**13C-PCB-28**

191106K2\_2



191106K2\_2



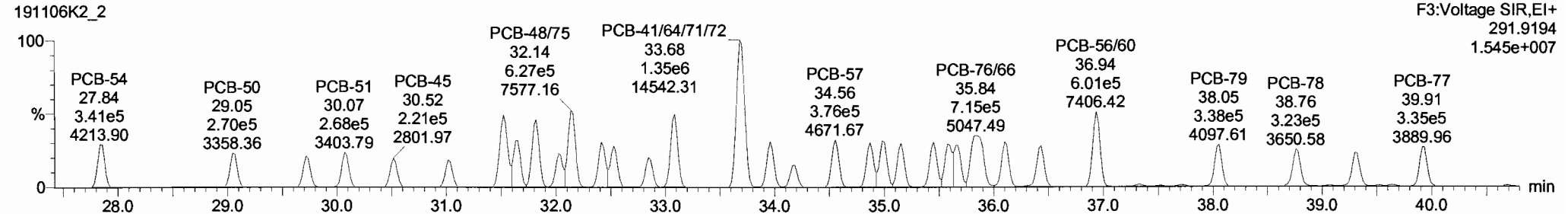
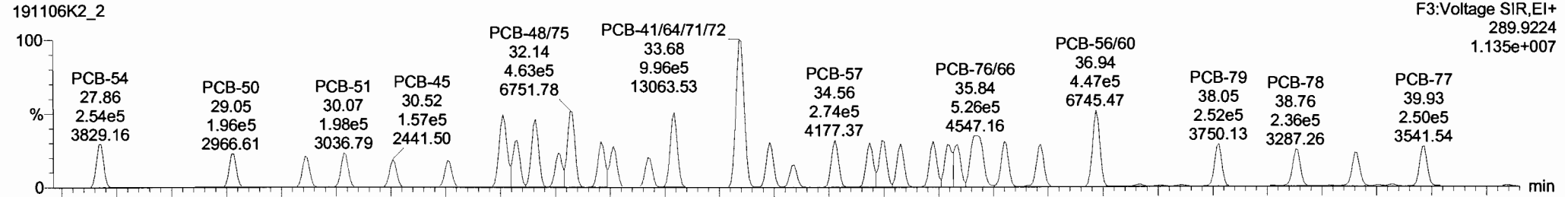


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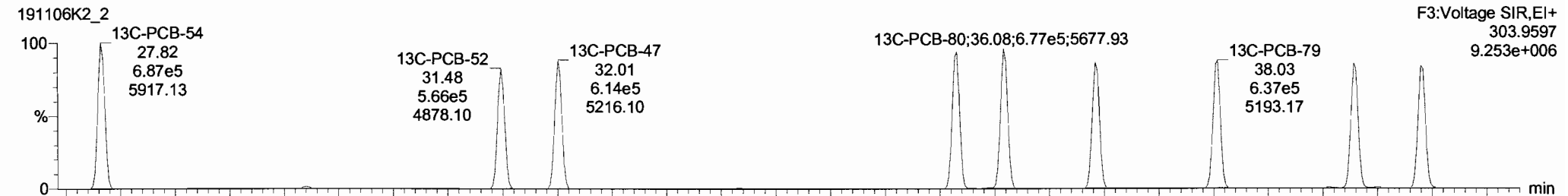
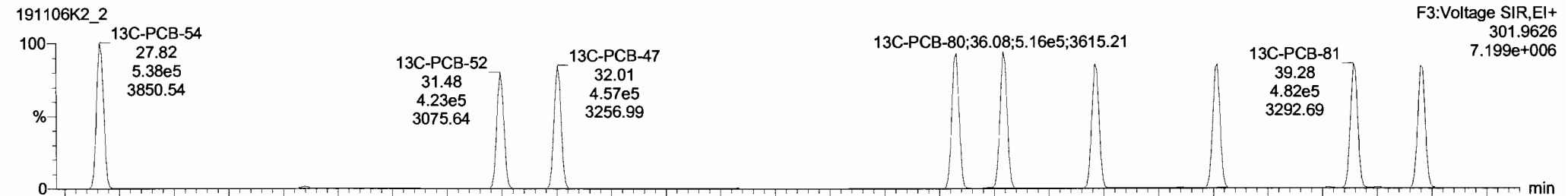
Last Altered: Thursday, November 07, 2019 12:11:56 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:13:14 Pacific Standard Time

Name: 191106K2\_2, Date: 07-Nov-2019, Time: 01:20:30, ID: ST191106K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

PCB-54



13C-PCB-54



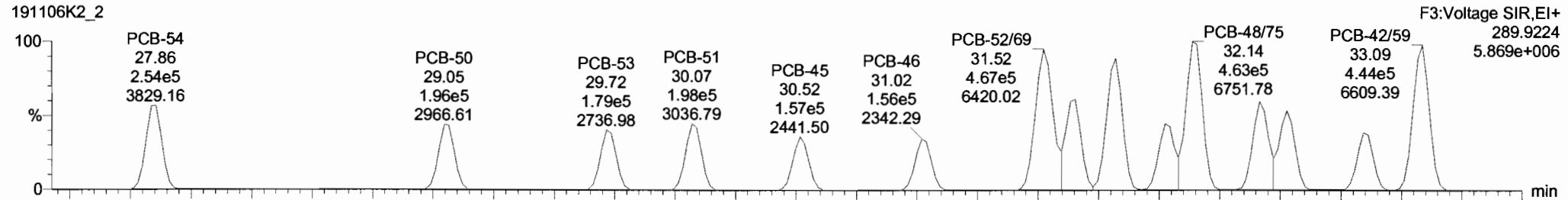
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Last Altered: Thursday, November 07, 2019 12:11:56 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:13:14 Pacific Standard Time

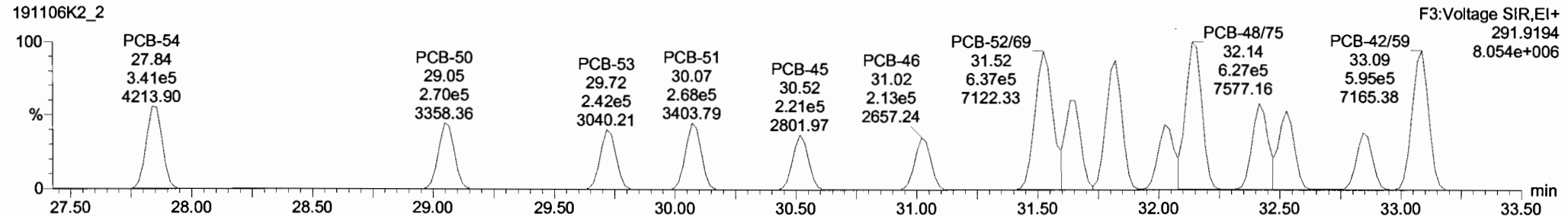
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**PCB-50**

191106K2\_2

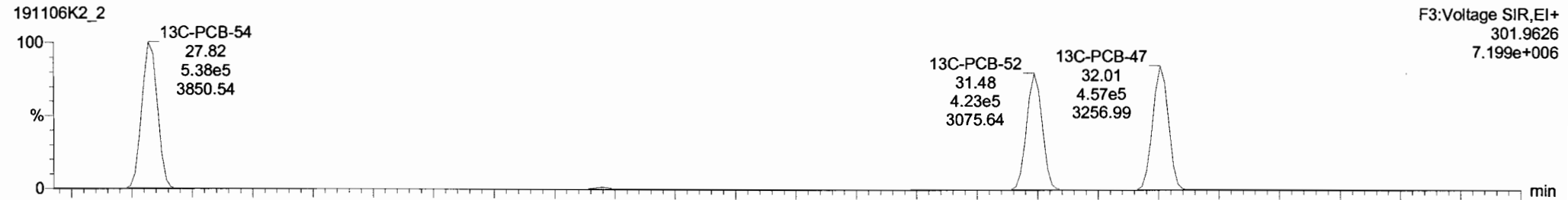


191106K2\_2

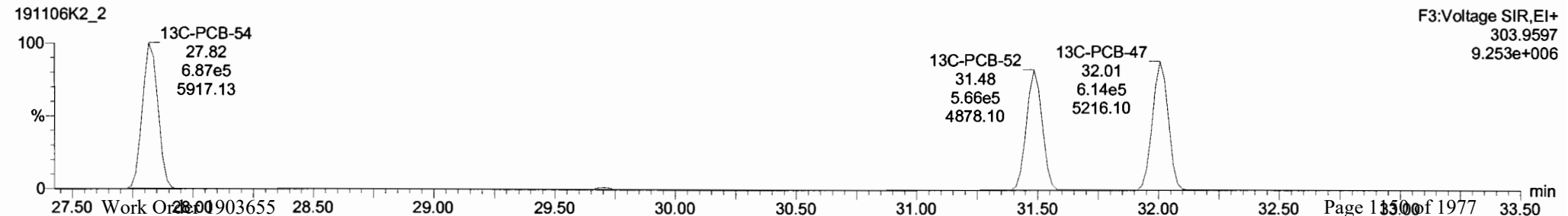


**13C-PCB-52**

191106K2\_2



191106K2\_2



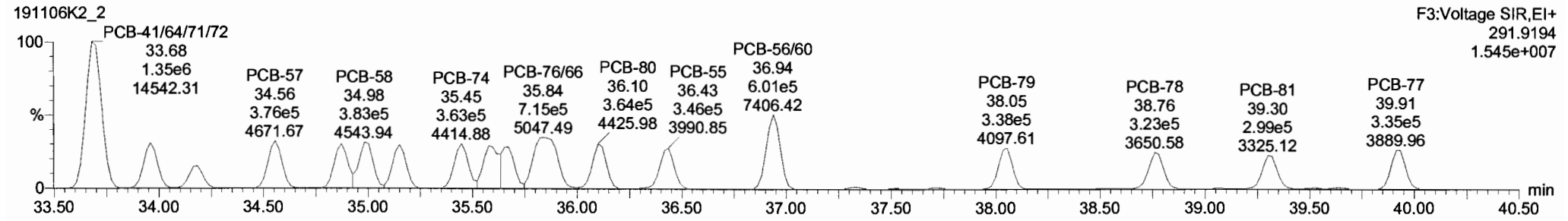
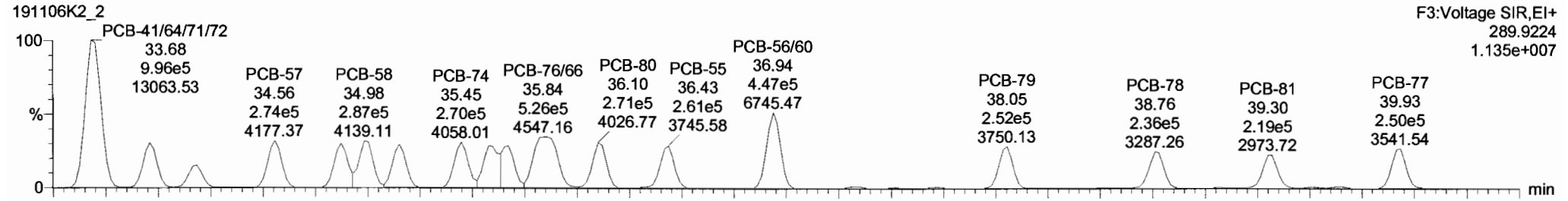
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Last Altered: Thursday, November 07, 2019 12:11:56 Pacific Standard Time

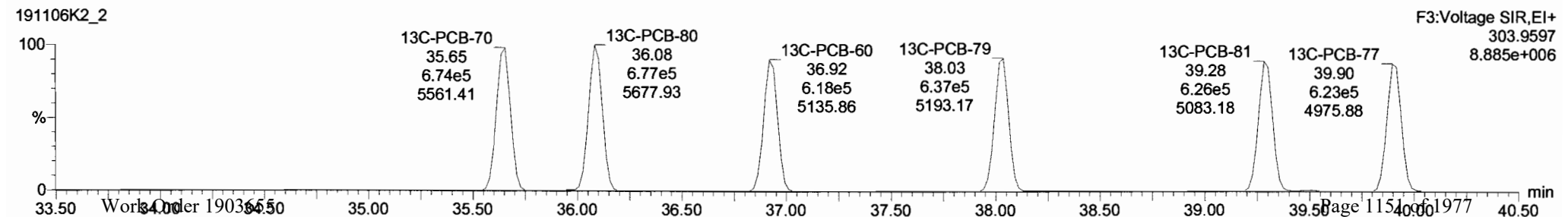
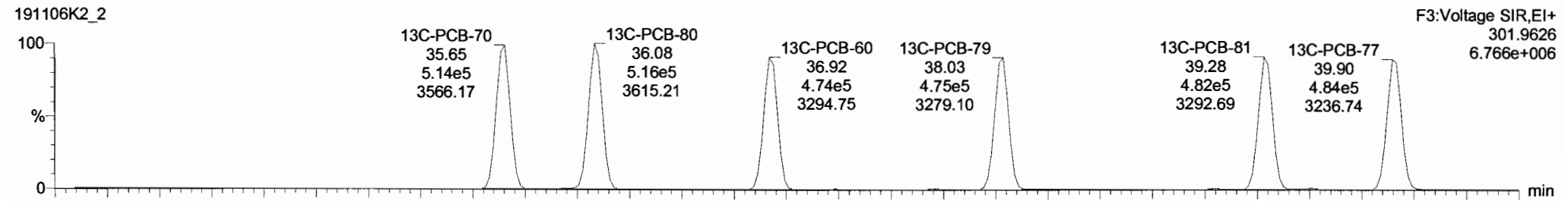
Printed: Thursday, November 07, 2019 12:13:14 Pacific Standard Time

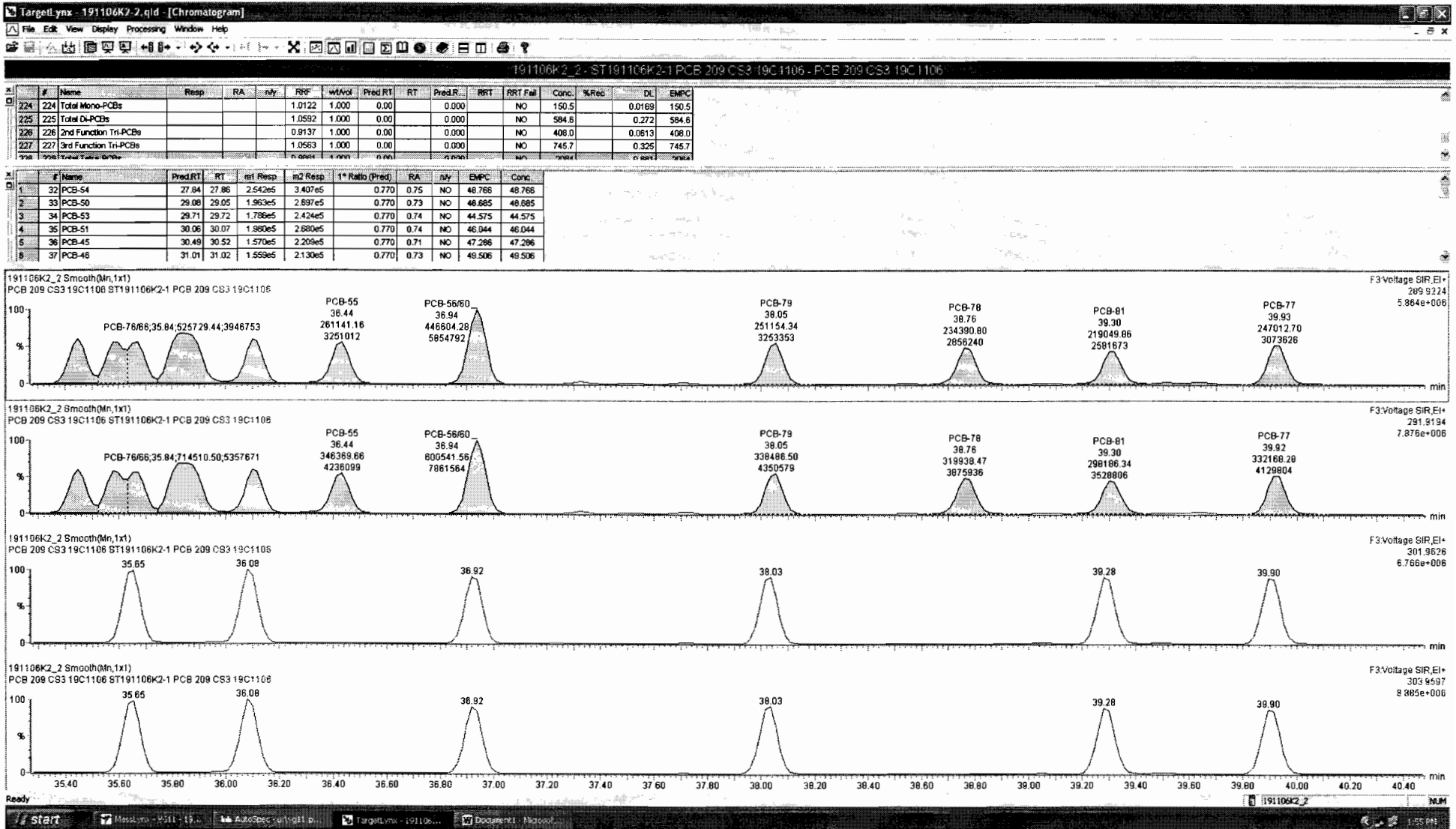
Name: 191106K2\_2, Date: 07-Nov-2019, Time: 01:20:30, ID: ST191106K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-68**



**13C-PCB-60**





Dataset: Untitled

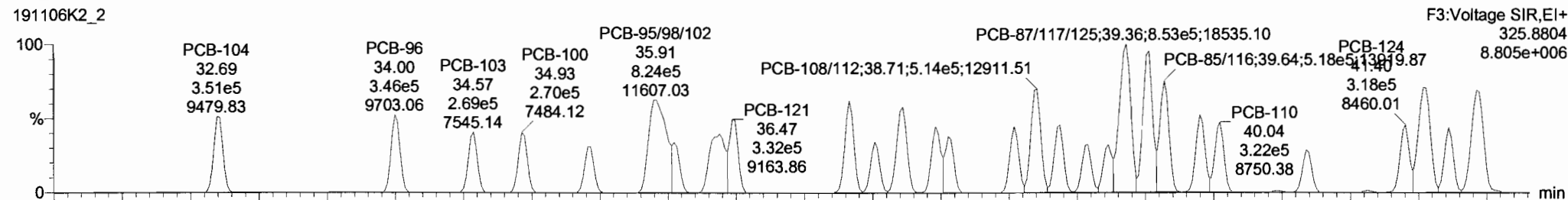
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Printed: Thursday, November 07, 2019 12:13:14 Pacific Standard Time

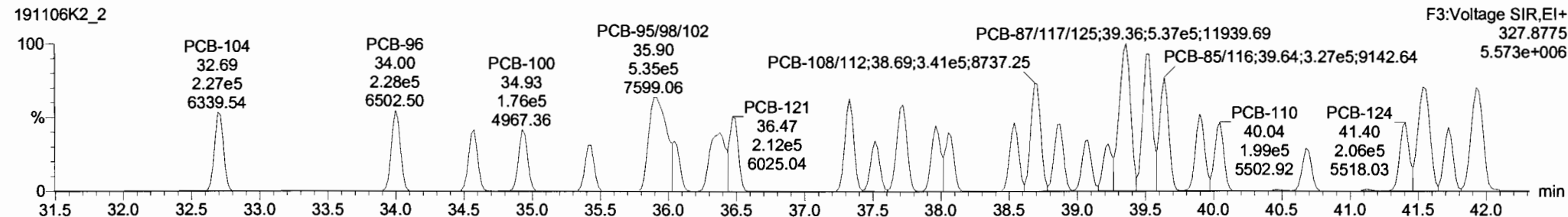
Name: 191106K2\_2, Date: 07-Nov-2019, Time: 01:20:30, ID: ST191106K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

### PCB-104

191106K2\_2

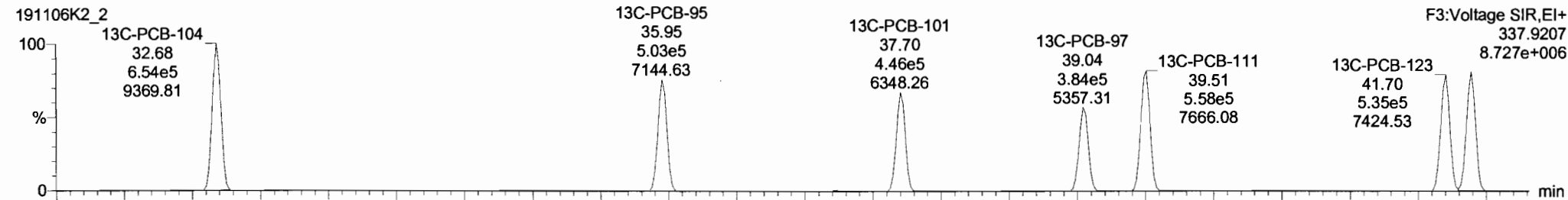


191106K2\_2

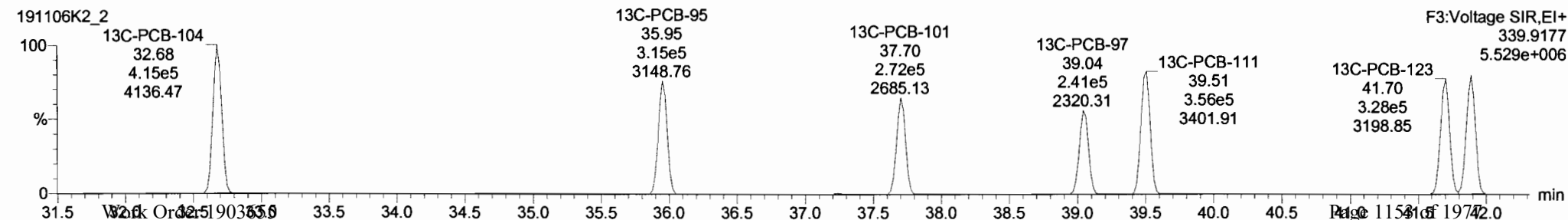


### 13C-PCB-104

191106K2\_2



191106K2\_2



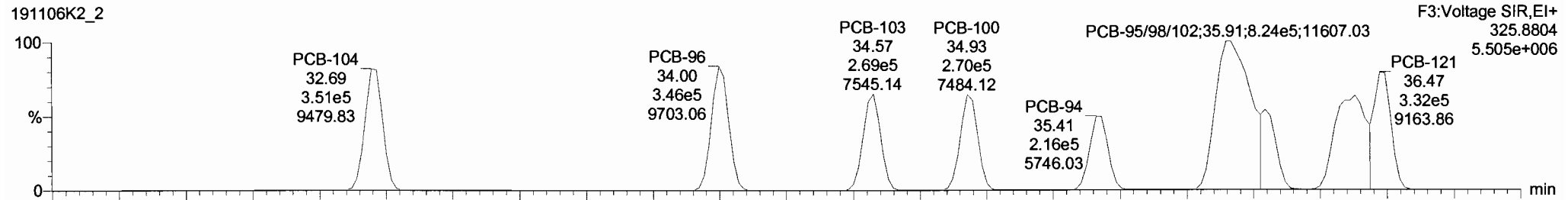
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Printed: Thursday, November 07, 2019 12:13:14 Pacific Standard Time

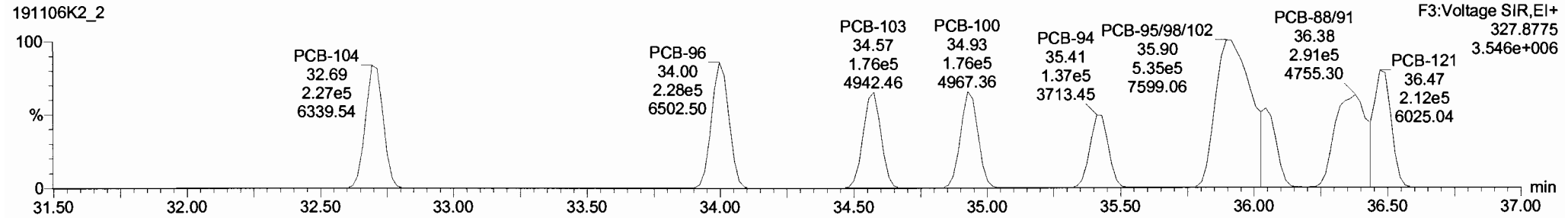
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**PCB-96**

191106K2\_2

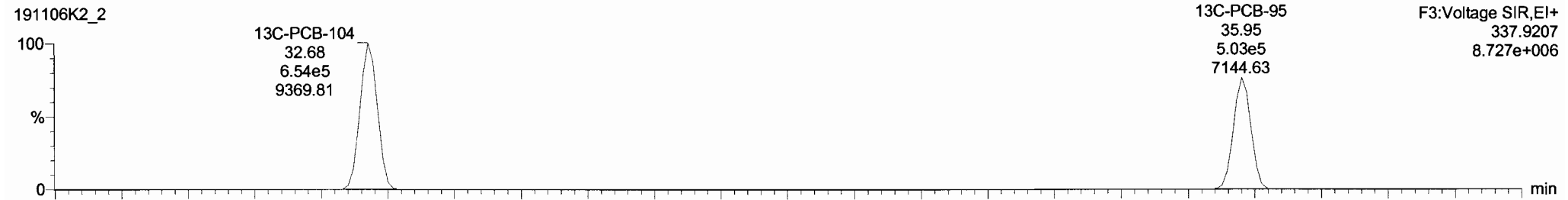


191106K2\_2

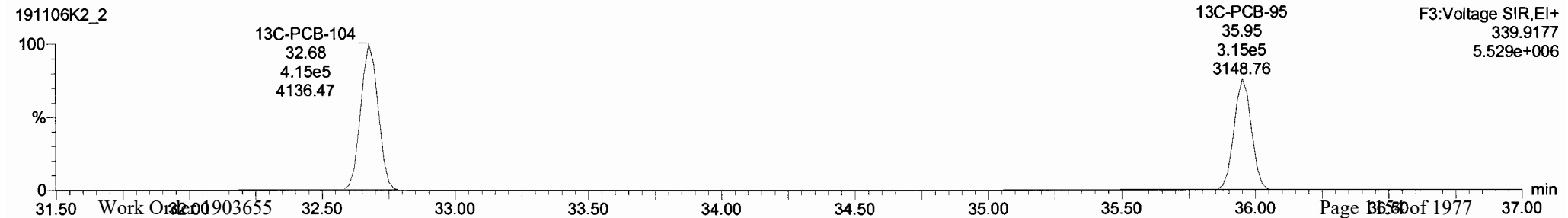


**13C-PCB-95**

191106K2\_2



191106K2\_2



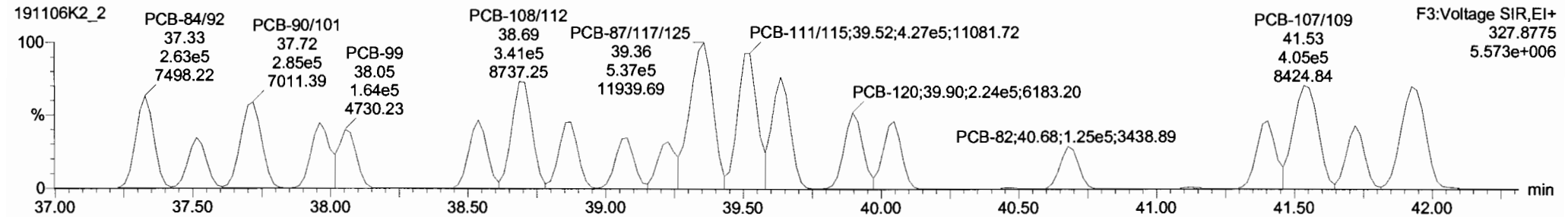
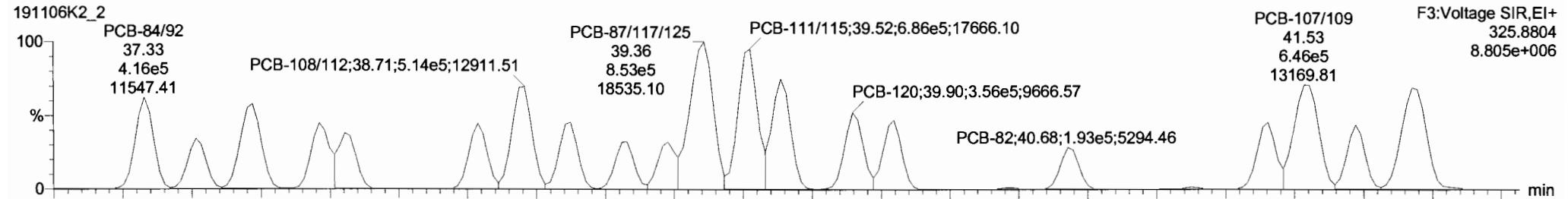


Dataset: Untitled

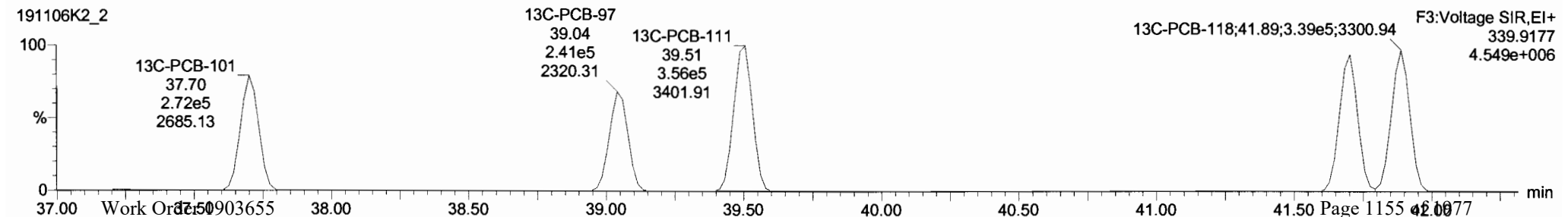
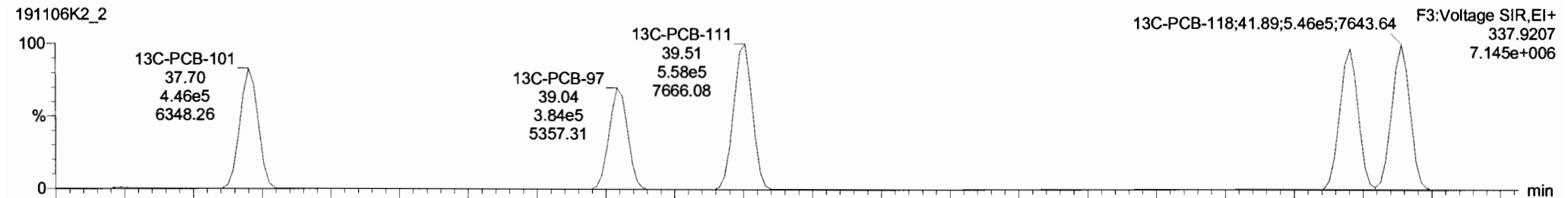
Last Altered: Thursday, November 07, 2019 12:11:56 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:13:14 Pacific Standard Time

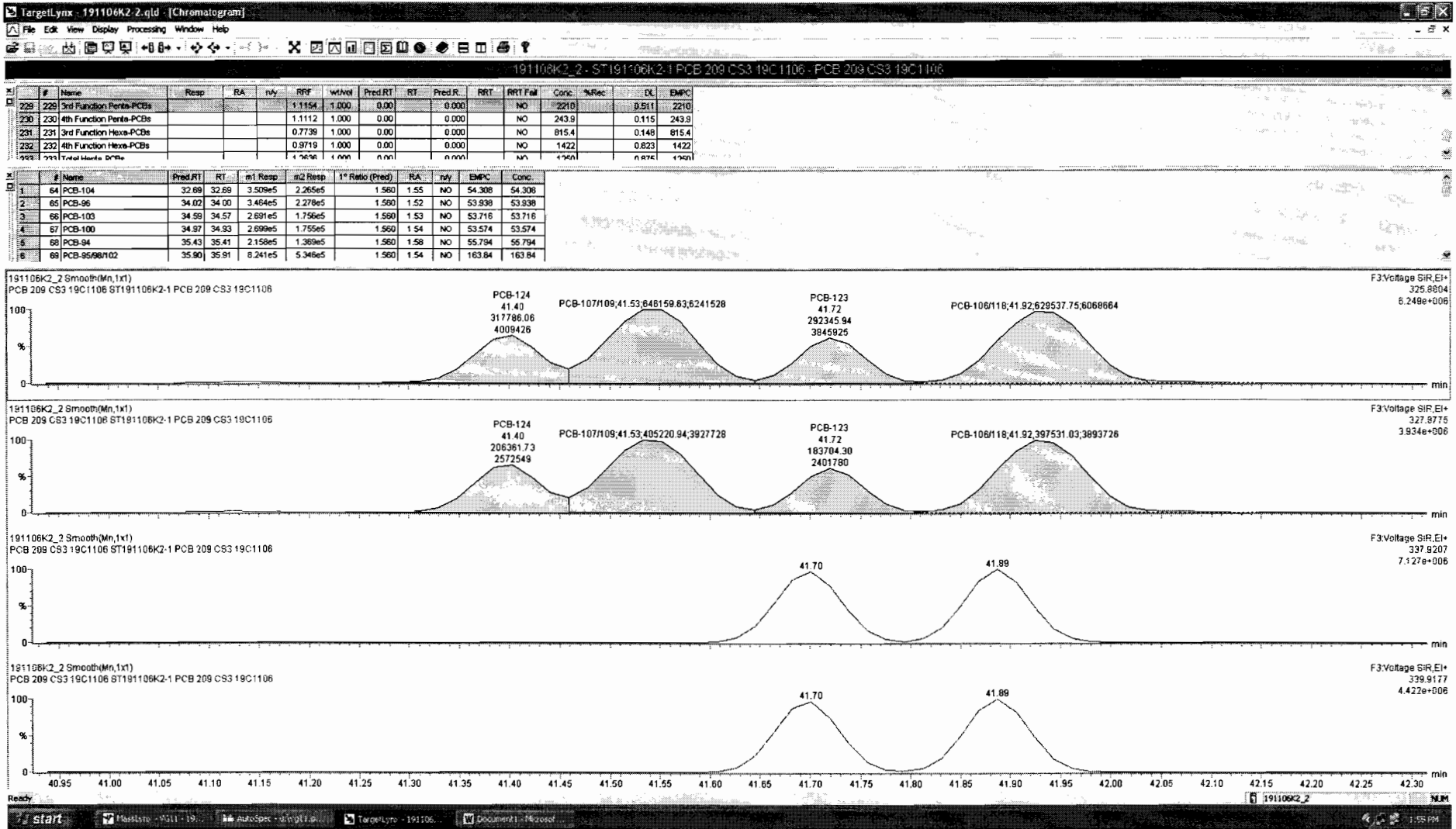
Name: 191106K2\_2, Date: 07-Nov-2019, Time: 01:20:30, ID: ST191106K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-119**



**13C-PCB-111**





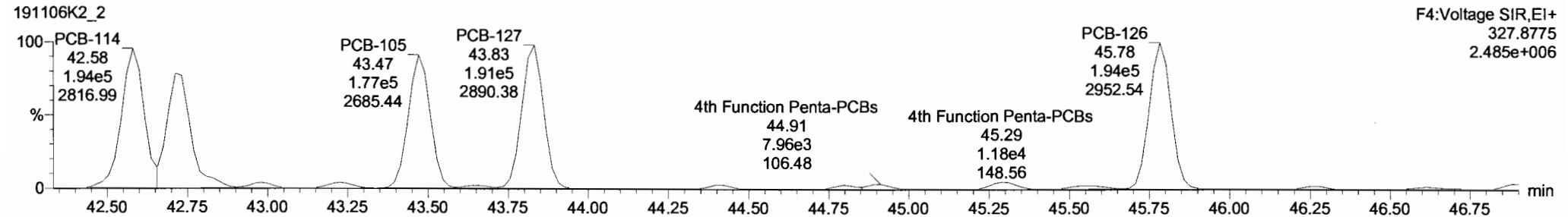
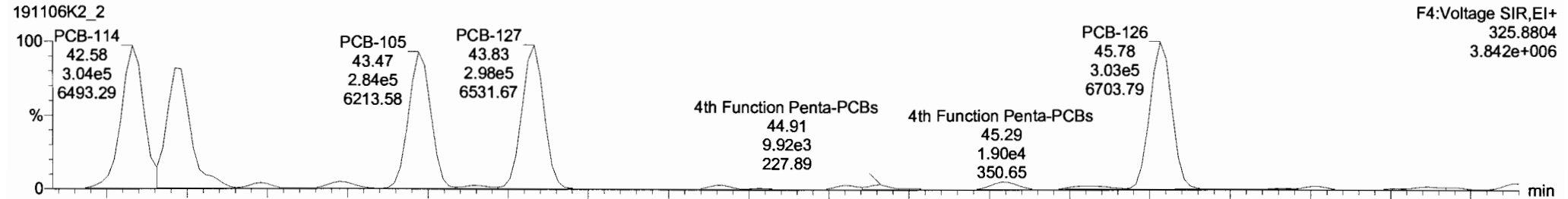
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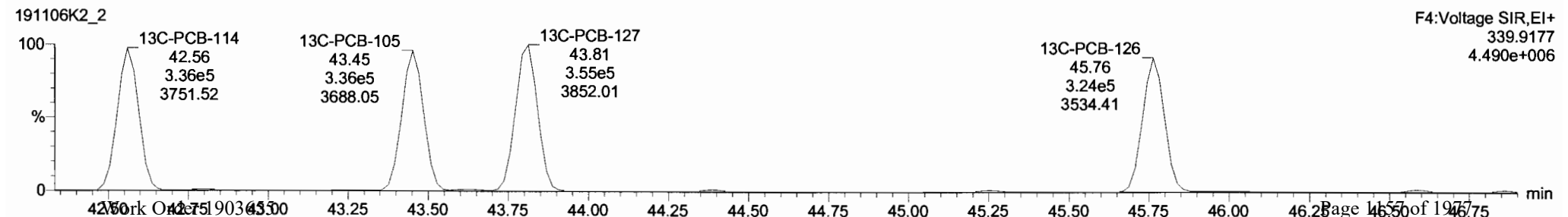
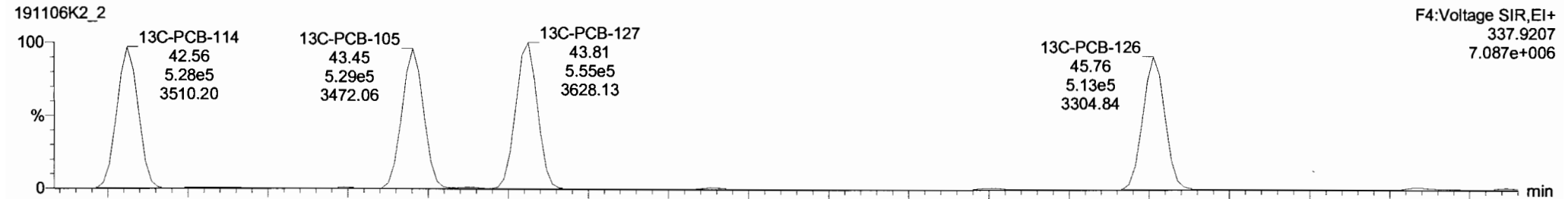
Printed: Thursday, November 07, 2019 12:13:14 Pacific Standard Time

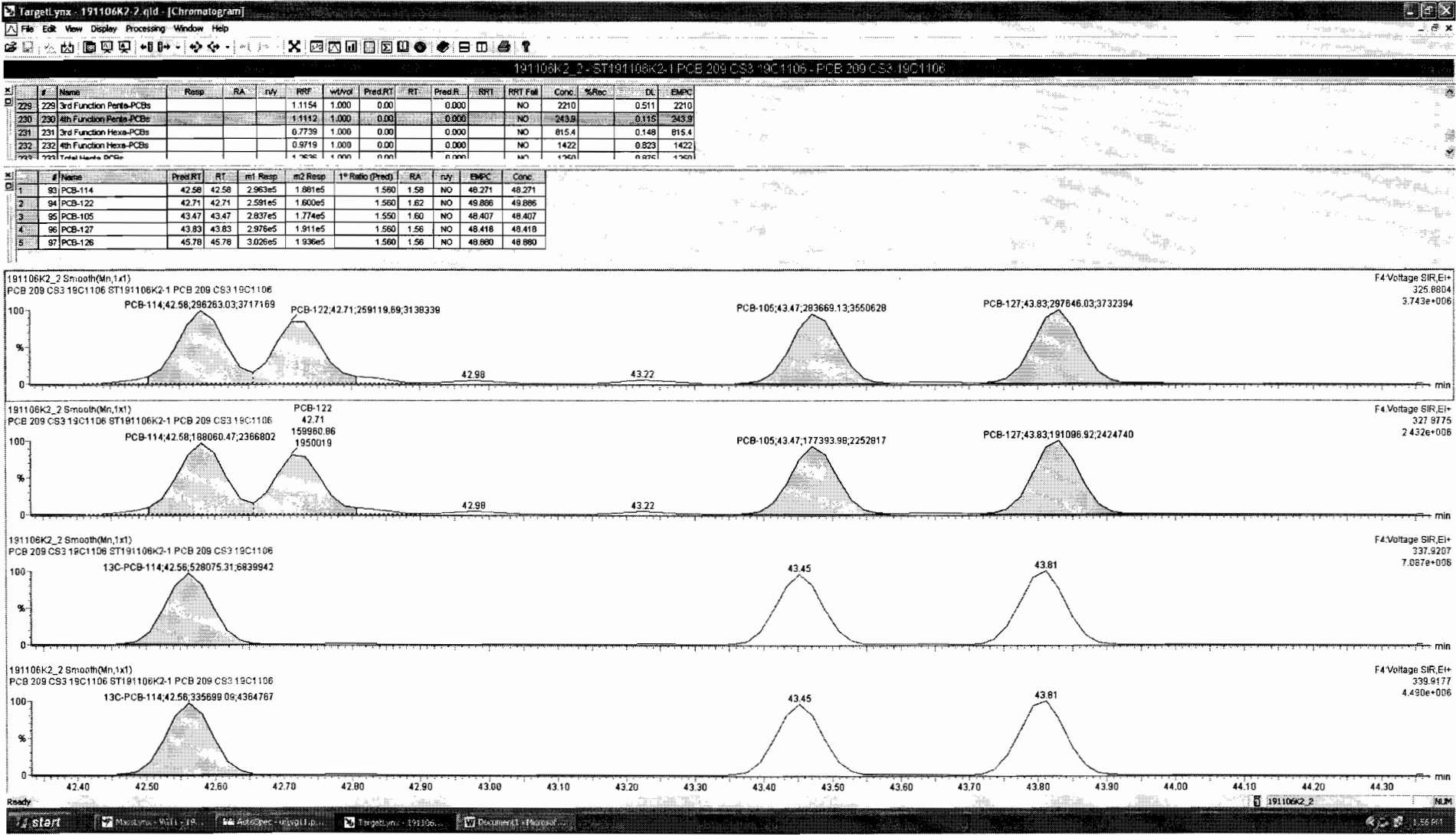
Name: 191106K2\_2, Date: 07-Nov-2019, Time: 01:20:30, ID: ST191106K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-114**



**13C-PCB-114**



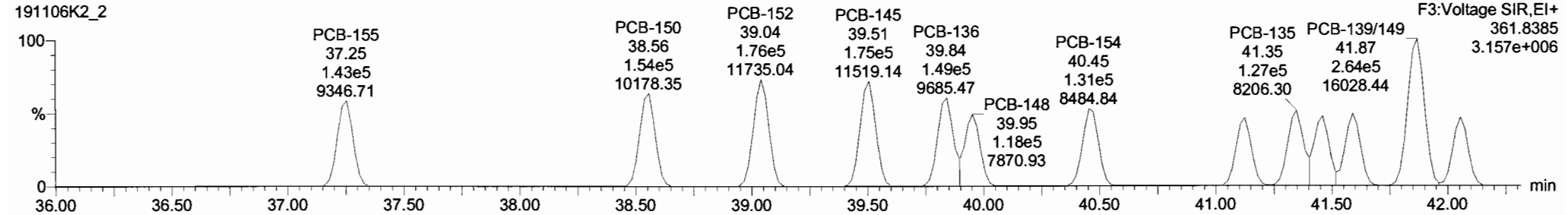
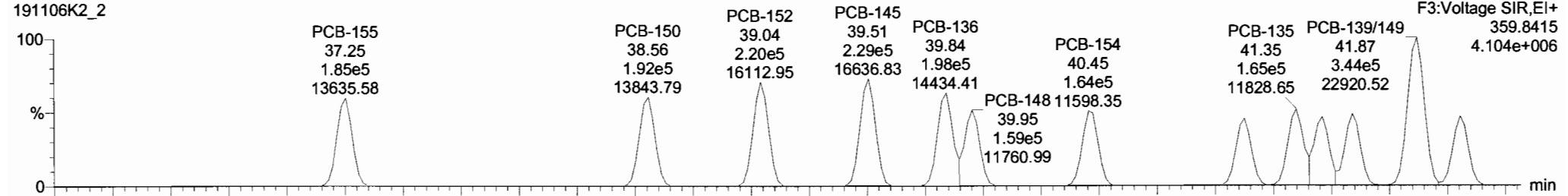


Dataset: Untitled

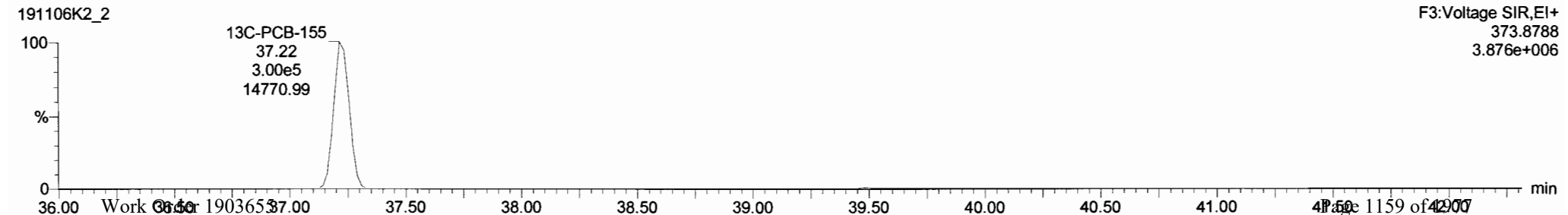
Last Altered: Thursday, November 07, 2019 12:11:56 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:13:14 Pacific Standard Time

Name: 191106K2\_2, Date: 07-Nov-2019, Time: 01:20:30, ID: ST191106K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-155**



**13C-PCB-155**



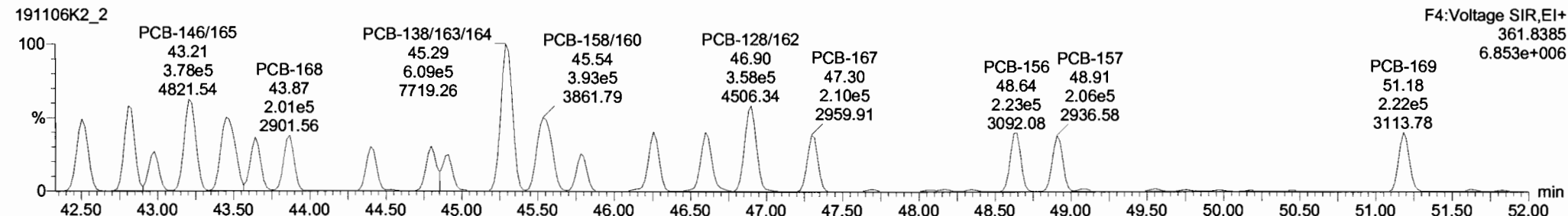
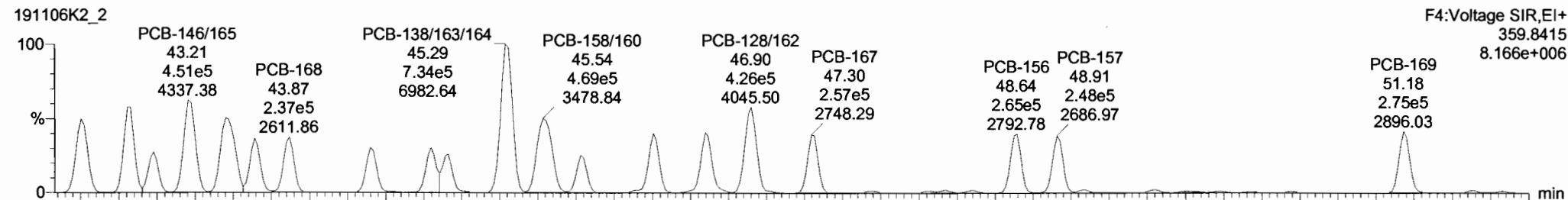
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Last Altered: Thursday, November 07, 2019 12:11:56 Pacific Standard Time

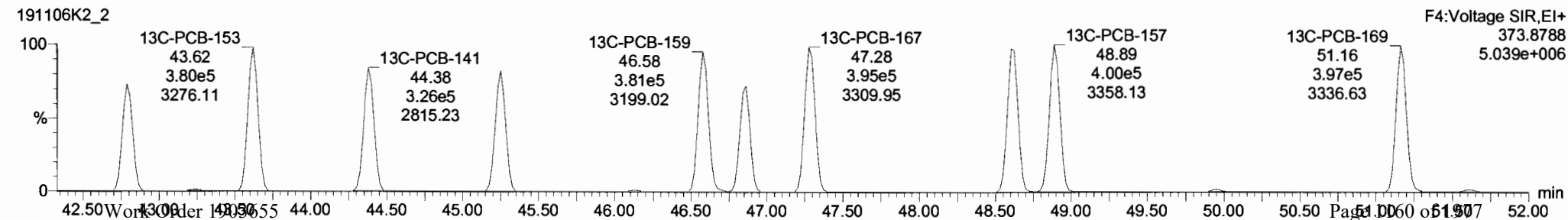
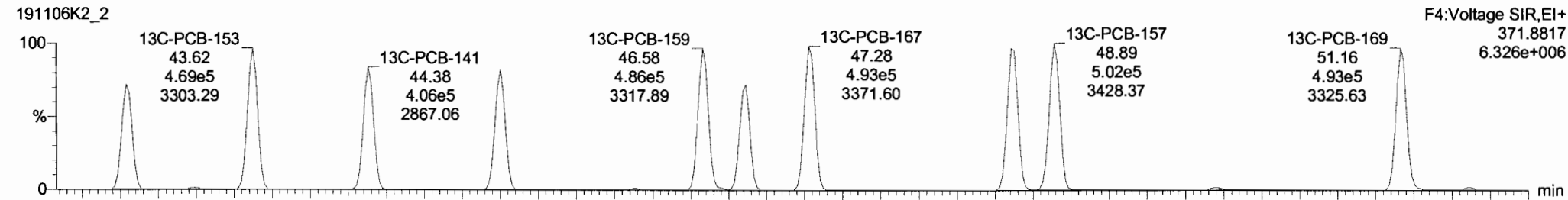
Printed: Thursday, November 07, 2019 12:13:14 Pacific Standard Time

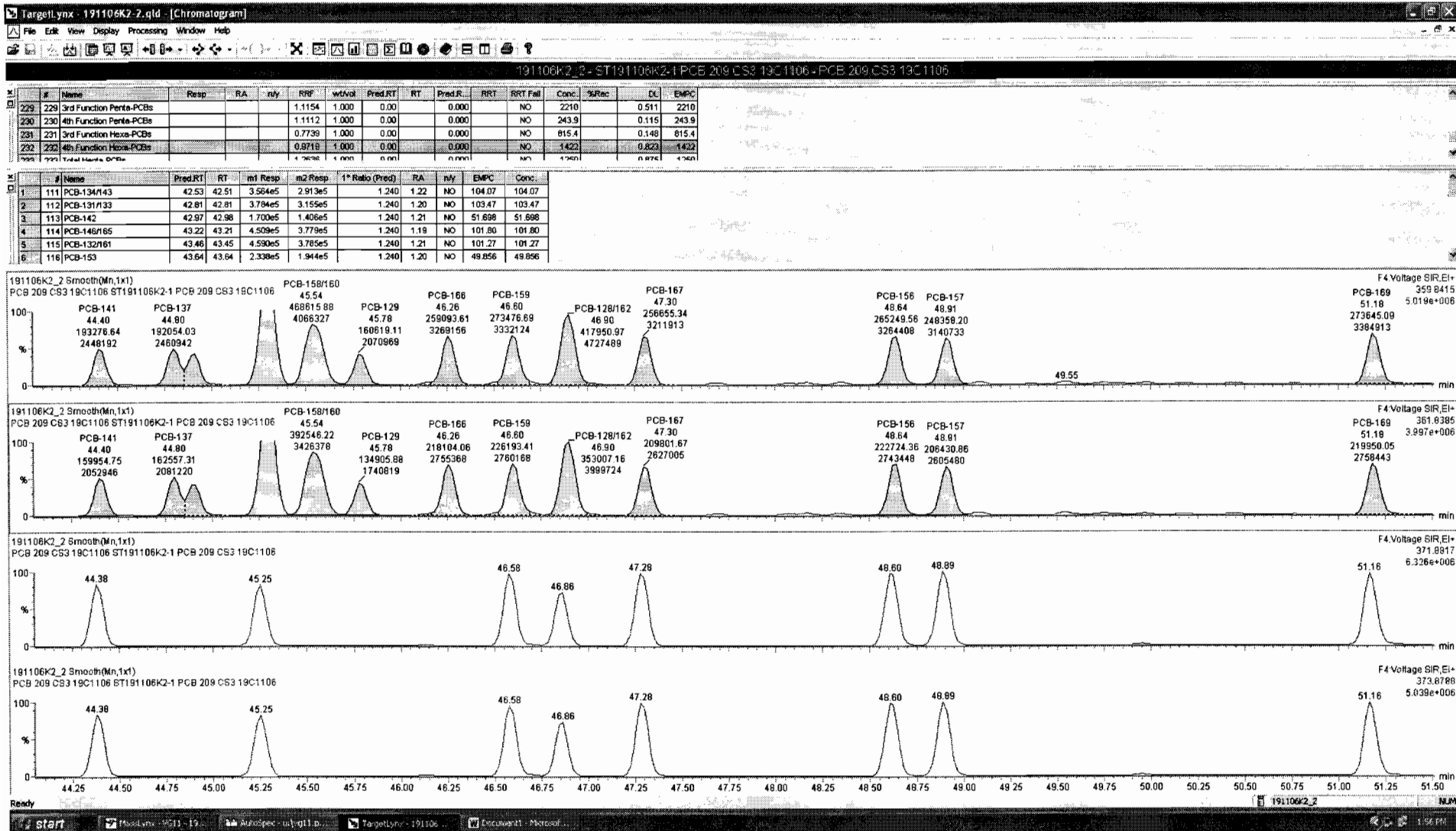
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PCB-134/143



13C-PCB-153



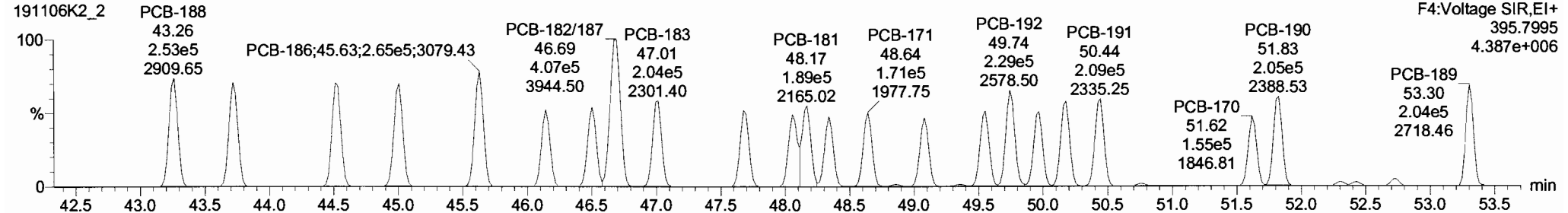
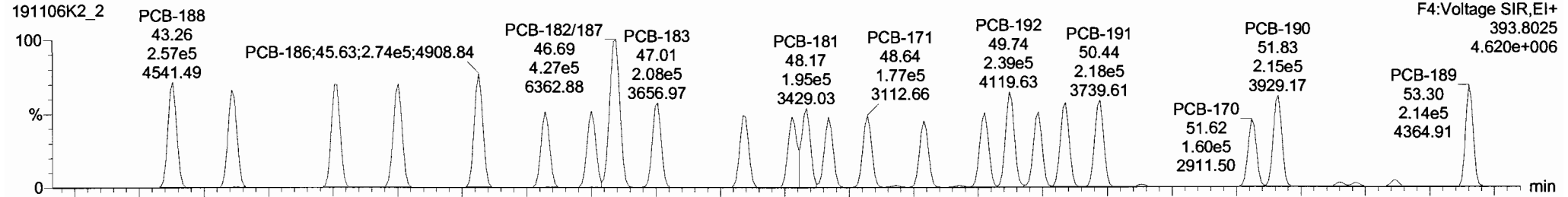


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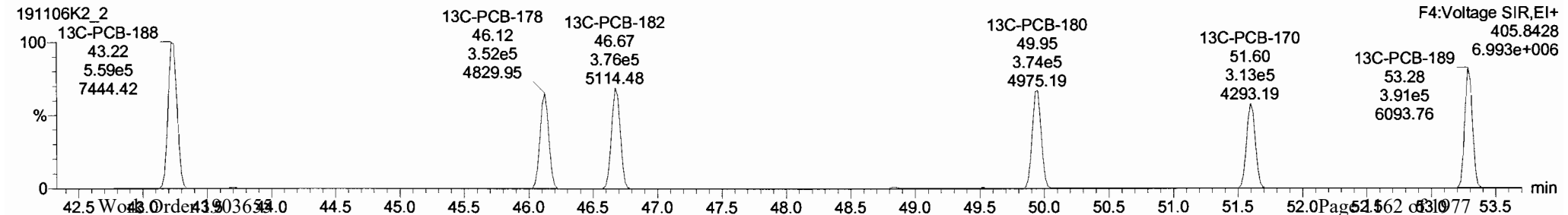
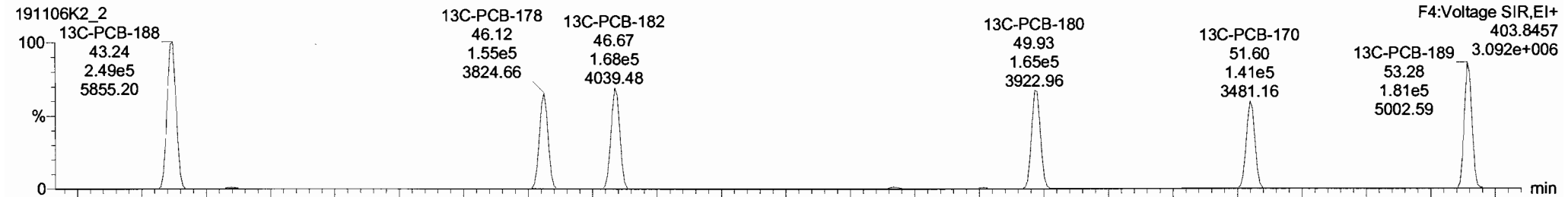
Last Altered: Thursday, November 07, 2019 12:11:56 Pacific Standard Time  
Printed: Thursday, November 07, 2019 12:13:14 Pacific Standard Time

Name: 191106K2\_2, Date: 07-Nov-2019, Time: 01:20:30, ID: ST191106K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

PCB-188



13C-PCB-188



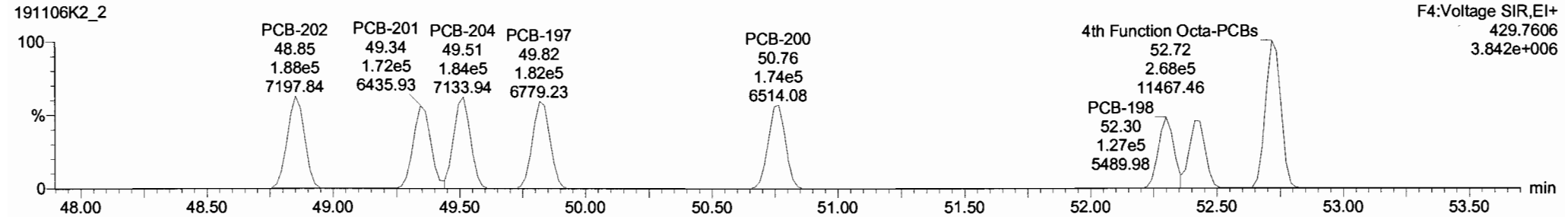
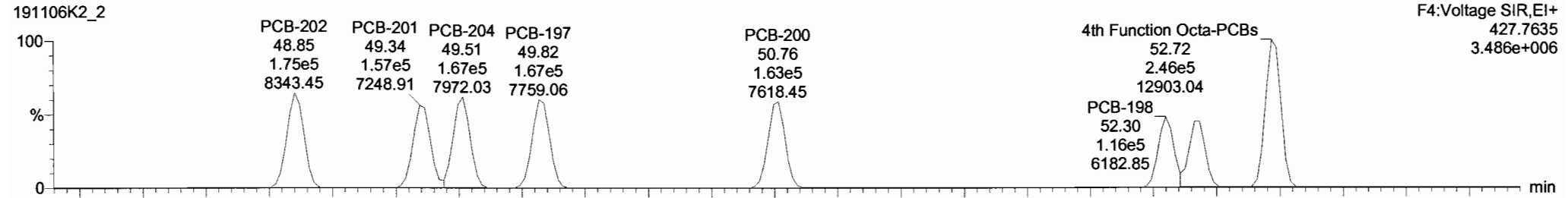


Dataset: Untitled

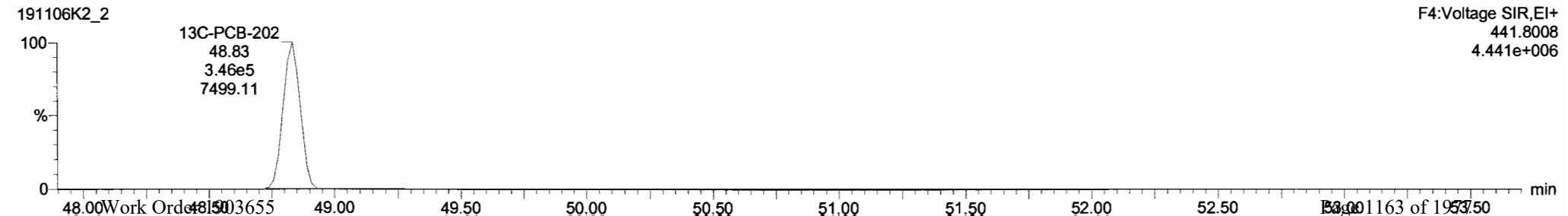
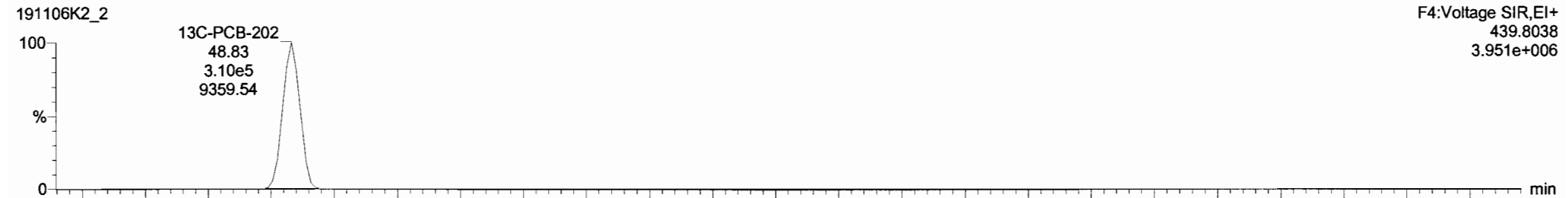
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Printed: Thursday, November 07, 2019 12:13:14 Pacific Standard Time

Name: 191106K2\_2, Date: 07-Nov-2019, Time: 01:20:30, ID: ST191106K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

PCB-202



13C-PCB-202

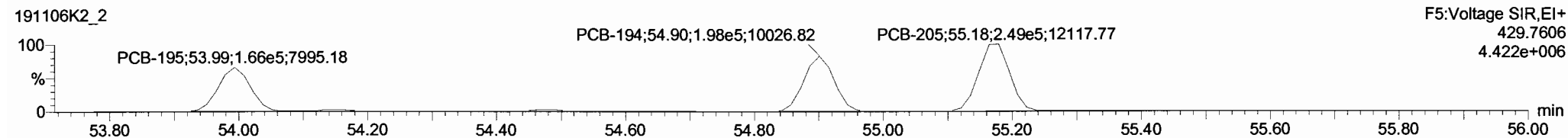
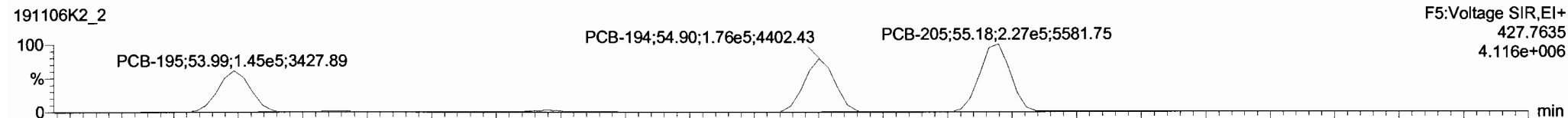


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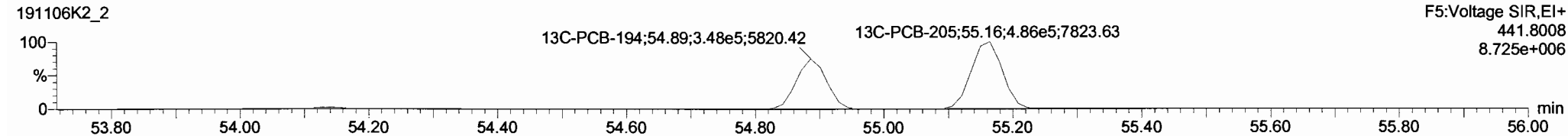
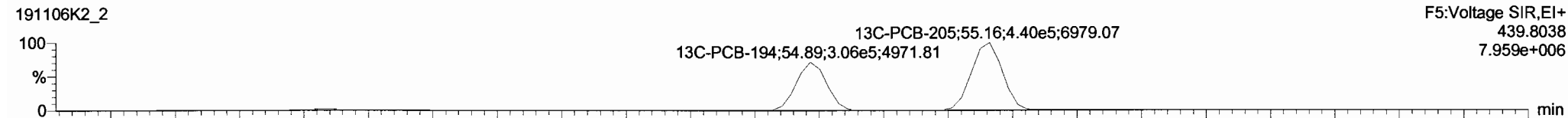
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Printed: Thursday, November 07, 2019 12:13:14 Pacific Standard Time

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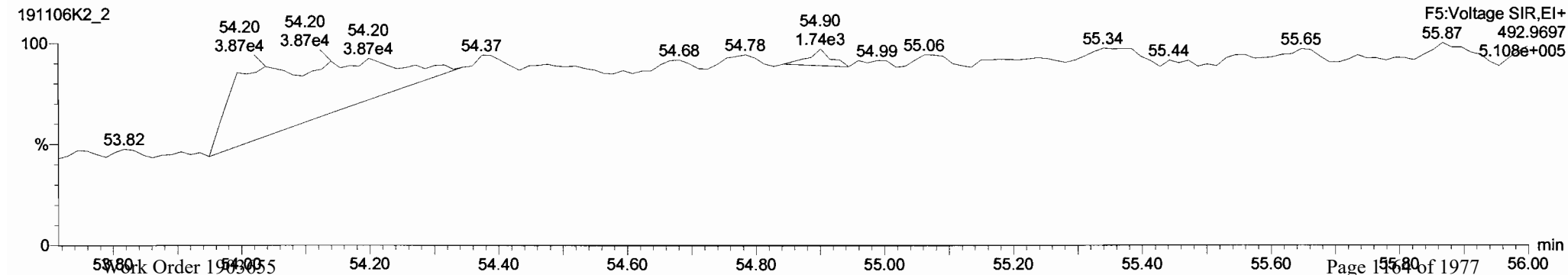
**PCB-195**



**13C-PCB-194**



**PFK5**

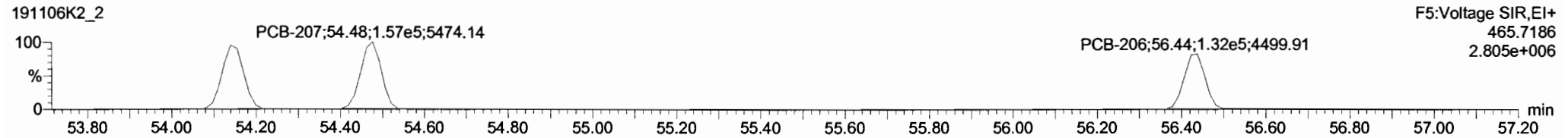
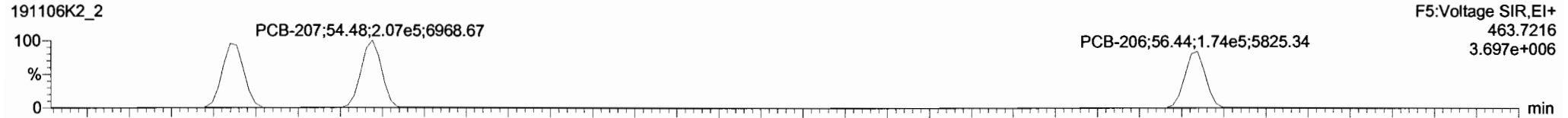


Dataset: Untitled

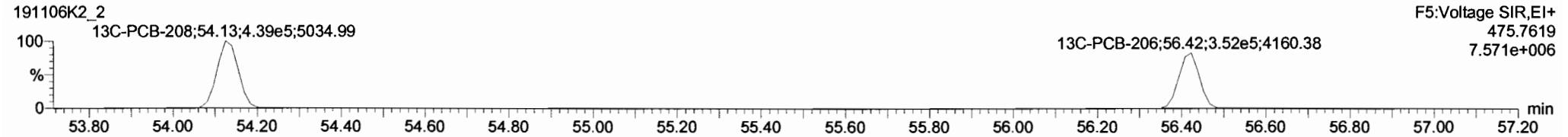
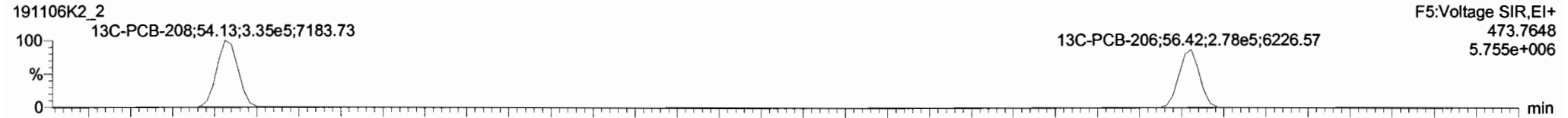
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Printed: Thursday, November 07, 2019 12:13:14 Pacific Standard Time

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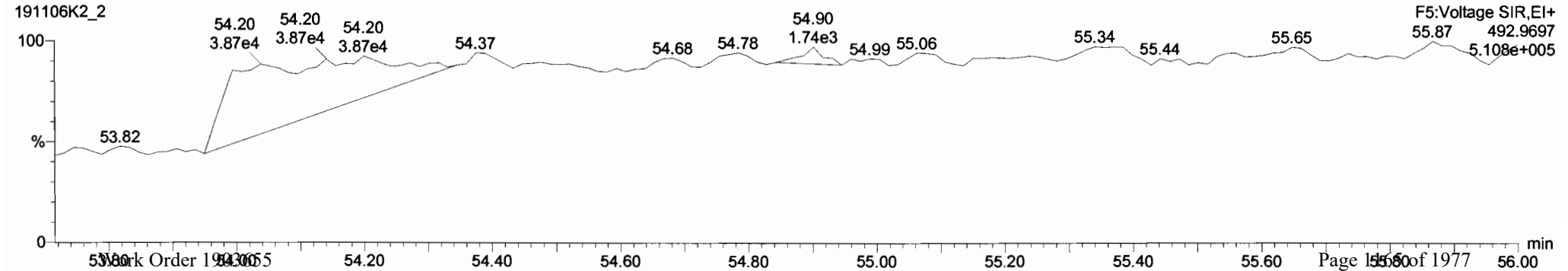
**PCB-208**



**13C-PCB-208**



**PFK5**



Dataset: Untitled

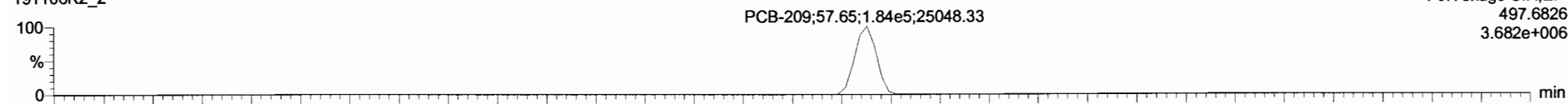
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Printed: Thursday, November 07, 2019 12:13:14 Pacific Standard Time

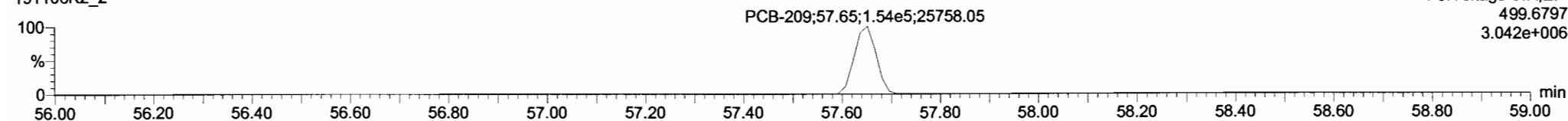
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**PCB-209**

191106K2\_2

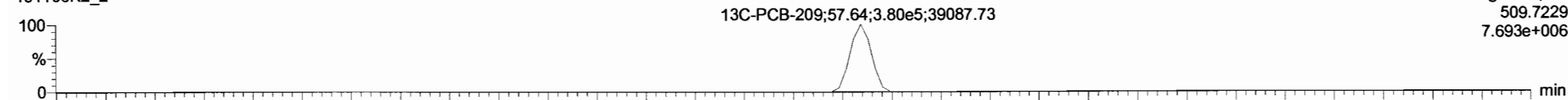


191106K2\_2

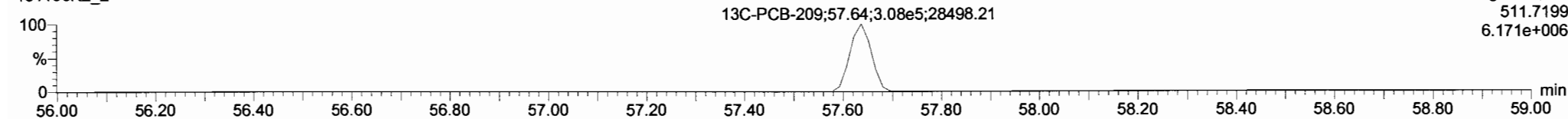


**13C-PCB-209**

191106K2\_2

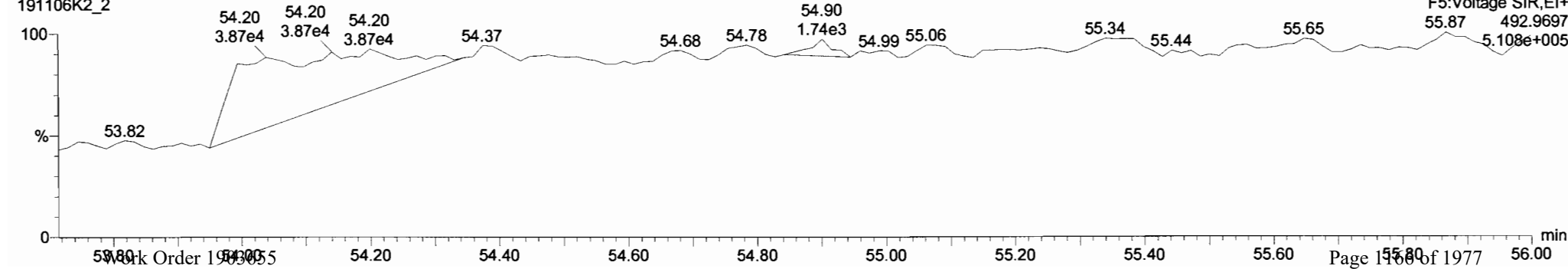


191106K2\_2



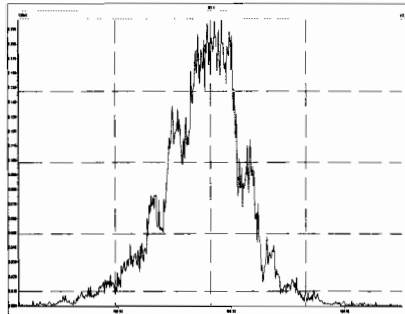
**PFK5**

191106K2\_2

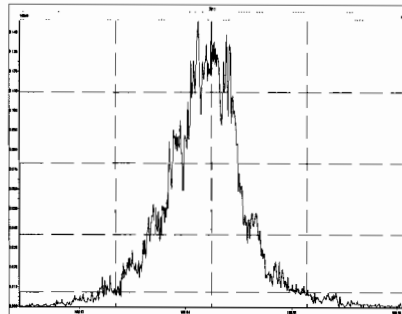


Printed: Thursday, November 07, 2019 12:40:39 Pacific Standard Time

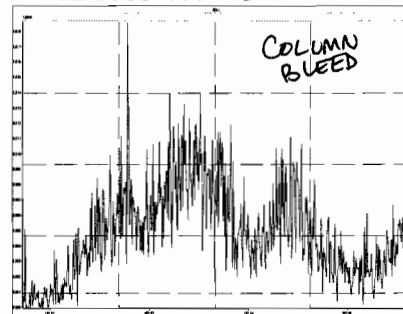
M 168.9888 R 10833



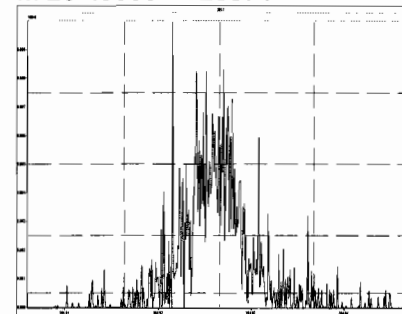
M 180.9888 R 11072



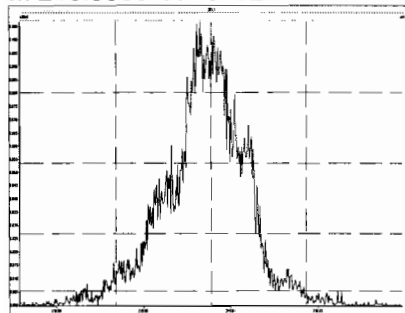
M 192.9888 R 7113



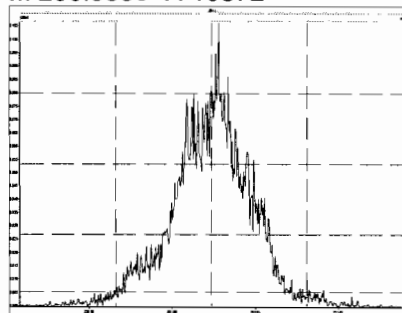
M 204.9888 R 25574



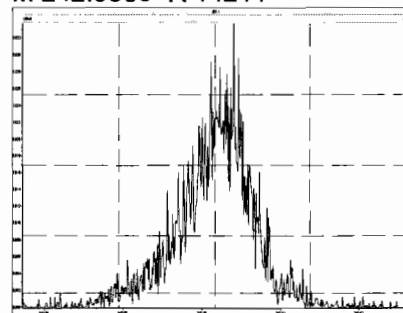
M 218.9856 R 10462



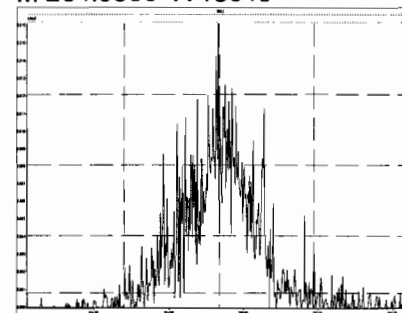
M 230.9856 R 10872



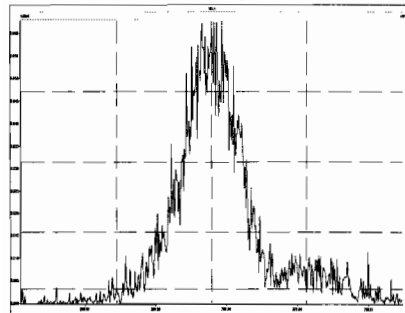
M 242.9856 R 14211



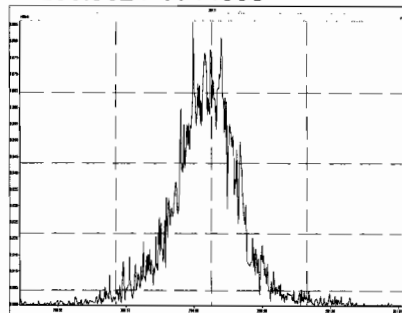
M 254.9856 R 18645



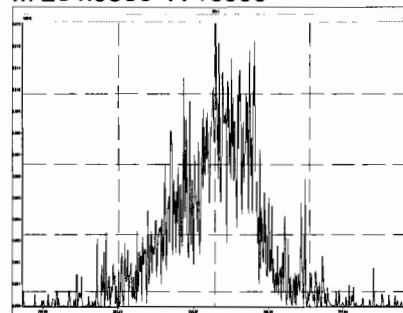
M 268.9824 R 12881



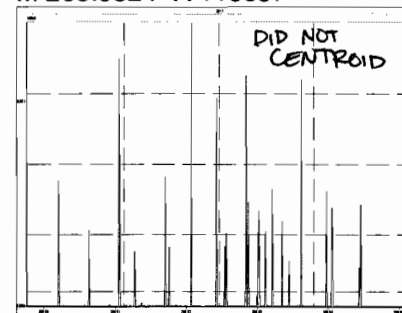
M 280.9824 R 14995



M 254.9856 R 16999

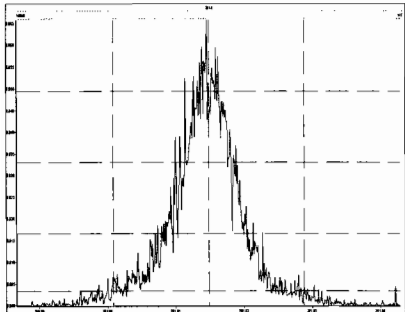


M 268.9824 R 113637

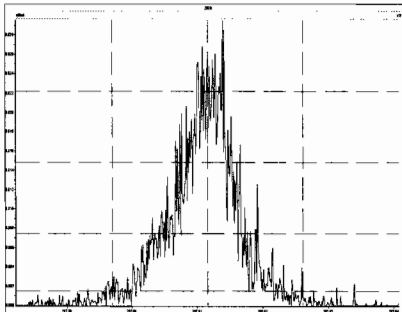


Printed: Thursday, November 07, 2019 12:40:39 Pacific Standard Time

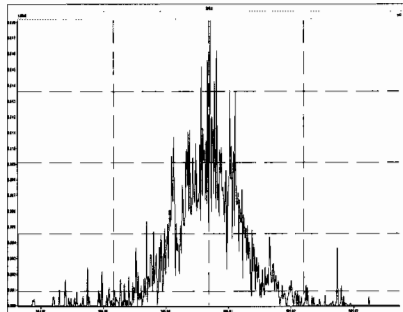
M 280.9824 R 12898



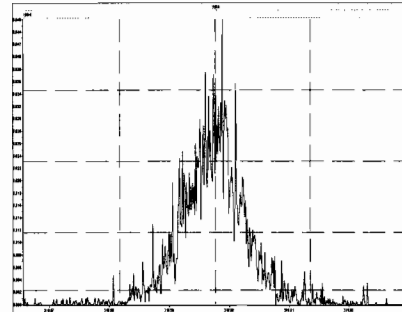
M 292.9824 R 15047



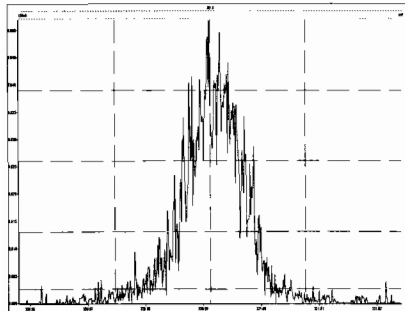
M 304.9824 R 15825



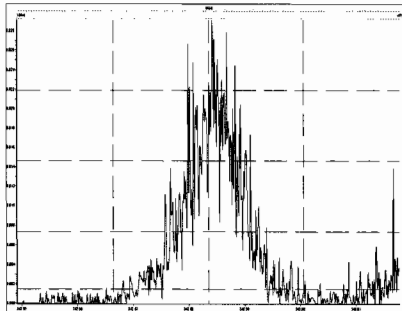
M 318.9792 R 15197



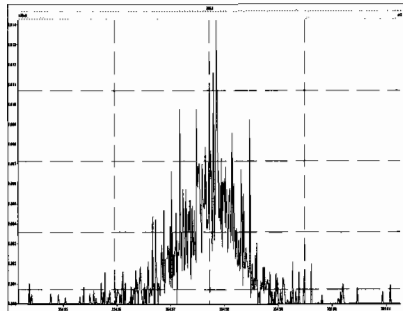
M 330.9792 R 16990



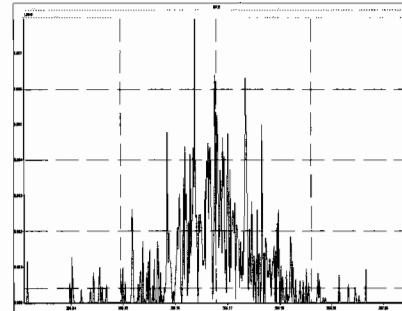
M 342.9792 R 18181



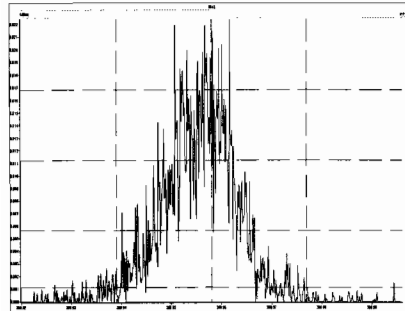
M 354.9792 R 24702



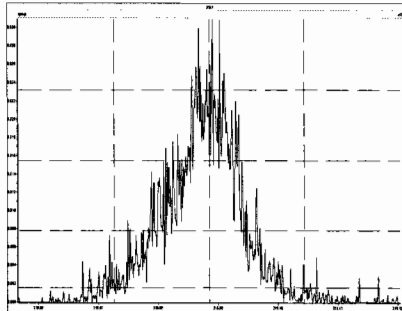
M 366.9792 R 62499



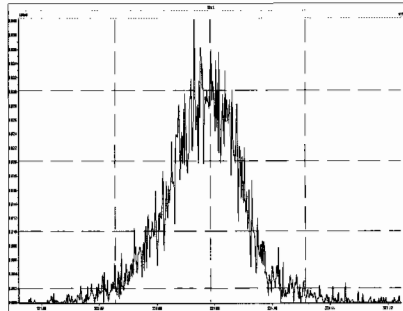
M 380.9760 R 15763



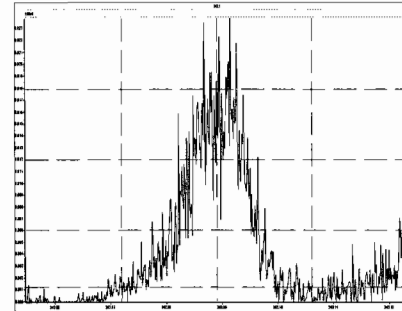
M 318.9792 R 12775



M 330.9792 R 12236

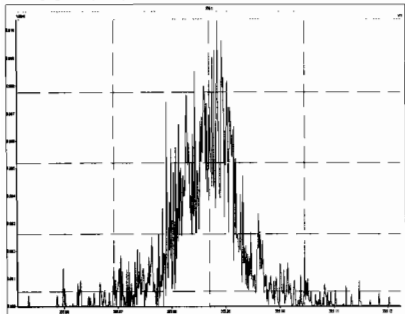


M 342.9792 R 14527

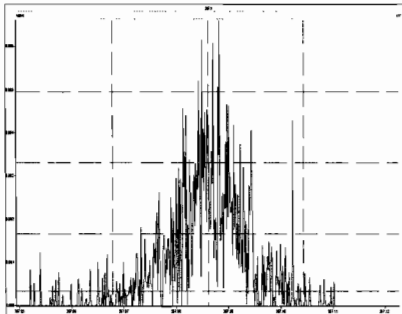


Printed: Thursday, November 07, 2019 12:40:39 Pacific Standard Time

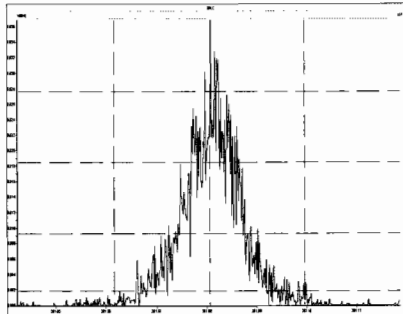
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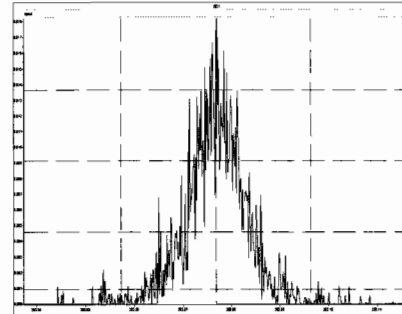
M 366.9792 R 27597



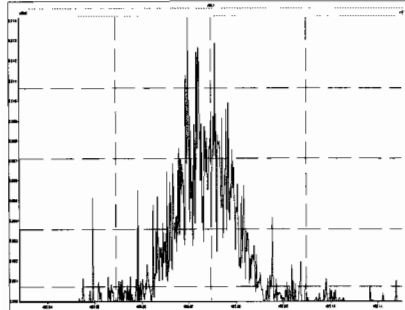
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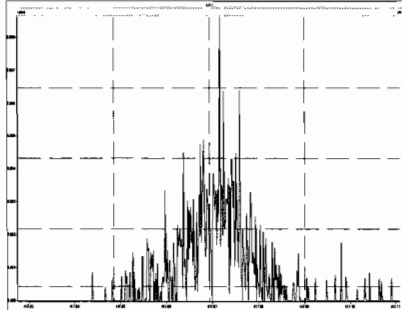
M 392.9760 R 18506



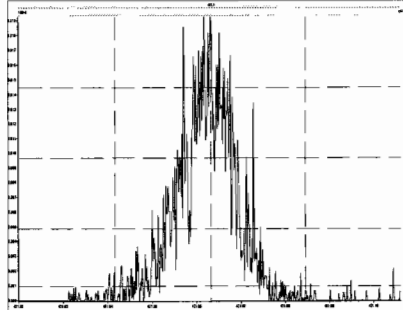
M 404.9760 R 18417



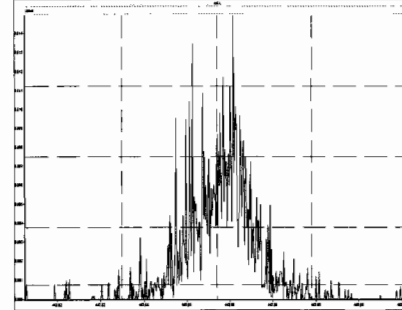
M 416.9760 R 45638



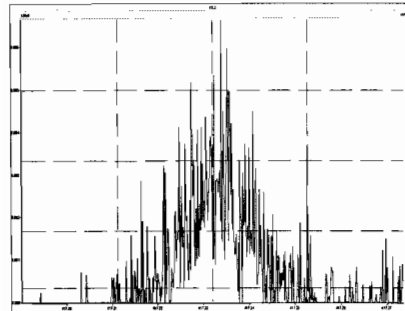
M 430.9728 R 18672



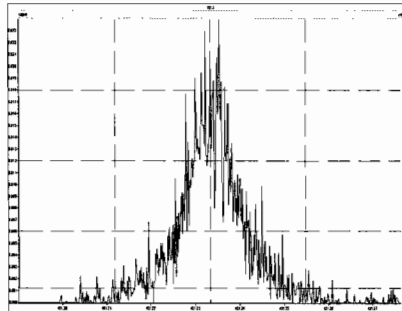
M 442.9728 R 21081



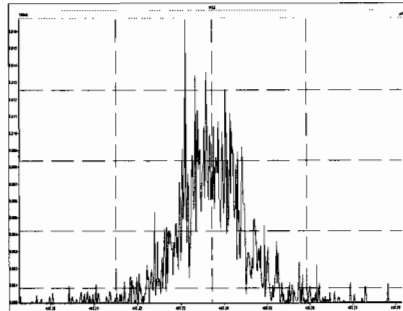
M 416.9760 R 24207



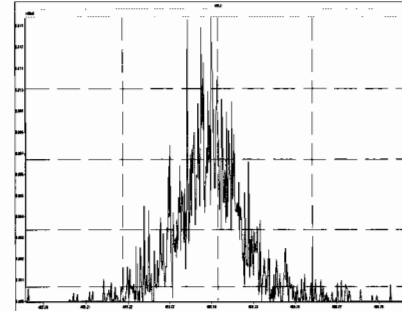
M 430.9728 R 16236



M 442.9728 R 18107

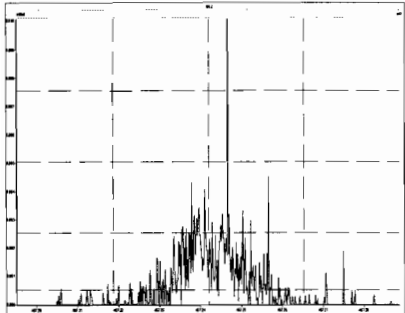


M 454.9728 R 19285

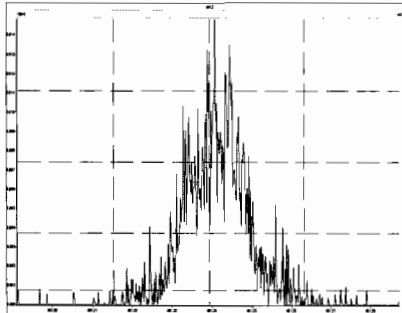


Printed: Thursday, November 07, 2019 12:40:39 Pacific Standard Time

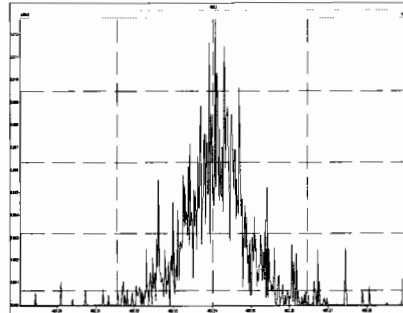
M 466.9728 R 39877



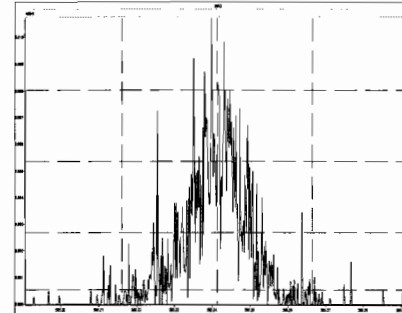
M 480.9696 R 19220



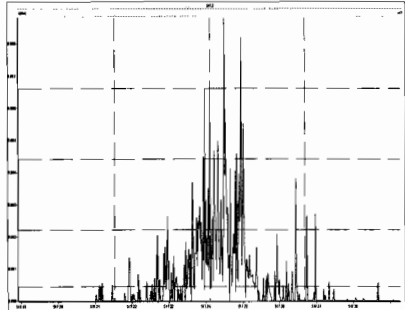
M 492.9696 R 19220



M 504.9696 R 24182



M 516.9697 R 47726





# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST91107K2-1

**Reviewed By:** CT 11/08/19  
*Initials & Date*

**End Calibration ID:** NA

	<u>Beg.</u>	<u>End</u>
<b>Ion abundance within QC limits?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
<b>Concentrations within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>TCDD/TCDF Valleys &lt;25%</b>	<input type="checkbox"/> NA	<input type="checkbox"/>
<b>First and last eluters present?</b>	<input type="checkbox"/> NA	<input type="checkbox"/>
<b>Retention Times within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Verification Std. named correctly?</b> (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Forms signed and dated?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Correct ICAL referenced?</b>	<u>GRB</u>	<u>✓</u>
<b><u>Run Log:</u></b>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
- Bottle position verified?	<u>GRB</u>	

**Mass resolution  $\geq$**   
 5k    6-8K    8K    10K  
 1614   1699   429   1613/1668/8280

**Intergrated peaks display correctly?**

**GC Break <20%**    NA

**8280 CS1 End Standard:**

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours    NA

(A) <u>Beg.</u>	(B) <u>End</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/> NA

**Comments:**

(A) BEG. RES CHECK HAD PFK DRAW:  
 - SOME MASSES HAD COLUMN BLEED  
 - SOME DID NOT CENTROID

(B) END RES CHECK PROCESSED MANUALLY; MORE PFK ADDED, NO ADJUSTMENTS MADE TO TUNING.  
 - ONE MASS DID NOT CENTROID  
 GRB 11/08/19

Dataset: U:\VG11.PRO\Results\191107K2\191107K2-2.qld

Last Altered: Friday, November 08, 2019 07:38:09 Pacific Standard Time

Printed: Friday, November 08, 2019 10:54:11 Pacific Standard Time

GRB 11/08/19

ET 11/08/19

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-04-19.mdb 05 Nov 2019 14:32:48

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191107K2\_2, Date: 08-Nov-2019, Time: 02:17:16, ID: ST191107K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	6.14e5	3.03	NO	1.02	1.000	15.68	15.68	1.001	1.001	NO	49.59	99.275-125%	0.00769	49.59
2	2 PCB-2	6.15e5	3.12	NO	1.01	1.000	18.11	18.11	0.988	0.988	NO	49.91	99.8	0.00796	49.91
3	3 PCB-3	6.16e5	3.06	NO	1.01	1.000	18.34	18.35	1.001	1.001	NO	50.10	100	0.00798	50.09
4	4 PCB-4/10	8.26e5	1.53	NO	1.28	1.000	19.77	19.78	1.004	1.004	NO	94.23	94.2	0.0704	94.23
5	5 PCB-7/9	1.02e6	1.57	NO	0.976	1.000	21.59	21.56	1.003	1.001	NO	99.10	99.1	0.0611	99.10
6	6 PCB-6	5.42e5	1.56	NO	1.02	1.000	22.24	22.24	1.033	1.033	NO	50.39	101	0.0586	50.39
7	7 PCB-5/8	1.08e6	1.59	NO	1.01	1.000	22.66	22.64	1.052	1.052	NO	101.1	101	0.0590	101.1
8	8 PCB-14	5.34e5	1.55	NO	1.03	1.000	23.79	23.79	0.952	0.952	NO	49.74	99.5	0.0617	49.74
9	9 PCB-11	5.59e5	1.53	NO	1.10	1.000	25.01	25.02	1.001	1.001	NO	49.08	98.2	0.0581	49.08
10	10 PCB-12/13	1.04e6	1.53	NO	1.04	1.000	25.45	25.39	1.018	1.016	NO	96.90	96.9	0.0614	96.90
11	11 PCB-15	5.50e5	1.55	NO	1.03	1.000	25.75	25.74	1.030	1.030	NO	51.44	103	0.0619	51.44
12	12 PCB-19	3.55e5	1.00	NO	0.934	1.000	23.97	23.96	1.001	1.001	NO	49.76	99.5	0.0155	49.76
13	13 PCB-30	5.45e5	1.03	NO	1.48	1.000	24.90	24.89	1.040	1.040	NO	48.23	96.5	0.00977	48.23
14	14 PCB-18	3.72e5	0.99	NO	0.693	1.000	25.65	25.67	0.951	0.952	NO	52.04	104	0.0154	52.04
15	15 PCB-17	3.55e5	0.99	NO	0.667	1.000	25.83	25.84	0.958	0.959	NO	51.63	103	0.0160	51.63
16	16 PCB-24/27	9.59e5	0.97	NO	0.915	1.000	26.45	26.43	0.981	0.980	NO	101.6	102	0.0117	101.6
17	17 PCB-16/32	8.07e5	0.97	NO	0.792	1.000	26.98	26.98	1.001	1.001	NO	98.69	98.7	0.0135	98.69
18	18 PCB-34	4.07e5	1.05	NO	0.987	1.000	27.78	27.78	0.959	0.959	NO	47.84	95.7	0.0469	47.84
19	19 PCB-23	3.81e5	1.08	NO	0.974	1.000	27.88	27.88	0.962	0.962	NO	45.38	90.8	0.0475	45.38
20	20 PCB-29	3.69e5	1.06	NO	0.953	1.000	28.11	28.14	0.970	0.971	NO	44.84	89.7	0.0486	44.84
21	21 PCB-26	4.00e5	1.07	NO	1.00	1.000	28.36	28.36	0.979	0.979	NO	46.29	92.6	0.0463	46.29
22	22 PCB-25	4.08e5	1.08	NO	0.978	1.000	28.51	28.53	0.984	0.985	NO	48.33	96.7	0.0474	48.33
23	23 PCB-31	4.18e5	1.06	NO	1.12	1.000	28.90	28.90	0.998	0.997	NO	43.18	86.4	0.0412	43.18
24	24 PCB-28	4.49e5	1.09	NO	1.11	1.000	28.99	28.99	1.001	1.001	NO	47.06	94.1	0.0419	47.06
25	25 PCB-20/21/33	1.20e6	1.08	NO	1.00	1.000	29.64	29.62	1.023	1.023	NO	138.4	92.3	0.0462	138.4
26	26 PCB-22	4.41e5	1.08	NO	1.03	1.000	30.12	30.09	1.039	1.038	NO	49.46	98.9	0.0448	49.46
27	27 PCB-36	4.28e5	1.09	NO	1.18	1.000	30.68	30.72	0.930	0.932	NO	46.69	93.4	0.0446	46.69
28	28 PCB-39	3.98e5	1.07	NO	1.08	1.000	31.17	31.21	0.945	0.946	NO	47.18	94.4	0.0484	47.18
29	29 PCB-38	4.14e5	1.07	NO	1.13	1.000	31.98	32.01	0.970	0.971	NO	47.17	94.3	0.0465	47.17
30	30 PCB-35	4.05e5	1.08	NO	1.13	1.000	32.53	32.55	0.987	0.987	NO	45.97	91.9	0.0464	45.97
31	31 PCB-37	4.17e5	1.08	NO	1.11	1.000	33.01	32.99	1.001	1.001	NO	48.40	96.8	0.0475	48.40

Dataset: U:\VG11.PRO\Results\191107K2\191107K2-2.qld

Last Altered: Friday, November 08, 2019 07:38:09 Pacific Standard Time

Printed: Friday, November 08, 2019 10:54:11 Pacific Standard Time

Name: 191107K2\_2, Date: 08-Nov-2019, Time: 02:17:16, ID: ST191107K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R.	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 PCB-54	4.19e5	0.76	NO	0.996	1.000	27.82	27.84	1.001	1.001	NO	48.09	96.2	0.0328	48.09
33	33 PCB-50	3.30e5	0.72	NO	0.781	1.000	29.06	29.05	1.045	1.045	NO	48.33	96.7	0.0418	48.33
34	34 PCB-53	2.96e5	0.72	NO	0.955	1.000	29.69	29.70	0.943	0.944	NO	45.65	91.3	0.0441	45.65
35	35 PCB-51	3.37e5	0.74	NO	1.02	1.000	30.04	30.05	0.955	0.955	NO	48.43	96.9	0.0412	48.43
36	36 PCB-45	2.62e5	0.75	NO	0.808	1.000	30.48	30.50	0.969	0.969	NO	47.65	95.3	0.0522	47.65
37	37 PCB-46	2.50e5	0.73	NO	0.754	1.000	30.99	31.00	0.985	0.985	NO	48.70	97.4	0.0559	48.70
38	38 PCB-52/69	7.13e5	0.73	NO	1.09	1.000	31.50	31.50	1.001	1.001	NO	95.99	96.0	0.0386	95.99
39	39 PCB-73	4.16e5	0.75	NO	1.29	1.000	31.63	31.63	1.005	1.005	NO	47.40	94.8	0.0327	47.40
40	40 PCB-43/49	6.11e5	0.74	NO	0.940	1.000	31.79	31.80	1.010	1.011	NO	95.57	95.6	0.0448	95.57
41	41 PCB-47	3.04e5	0.73	NO	0.869	1.000	32.01	32.01	1.001	1.001	NO	48.76	97.5	0.0451	48.76
42	42 PCB-48/75	6.98e5	0.74	NO	1.02	1.000	32.12	32.14	1.004	1.005	NO	95.05	95.1	0.0382	95.05
43	43 PCB-65	3.77e5	0.73	NO	1.11	1.000	32.39	32.40	1.013	1.013	NO	47.42	94.8	0.0353	47.42
44	44 PCB-62	3.61e5	0.74	NO	1.07	1.000	32.50	32.51	1.016	1.016	NO	47.26	94.5	0.0367	47.26
45	45 PCB-44	2.57e5	0.73	NO	0.761	1.000	32.84	32.83	1.027	1.026	NO	47.13	94.3	0.0514	47.13
46	46 PCB-42/59	6.56e5	0.75	NO	0.960	1.000	33.06	33.07	1.033	1.034	NO	95.34	95.3	0.0408	95.34
47	47 PCB-41/64/71/72	1.46e6	0.73	NO	1.08	1.000	33.68	33.68	1.053	1.053	NO	188.0	94.0	0.0362	188.0
48	48 PCB-68	3.62e5	0.72	NO	1.11	1.000	33.97	33.94	1.062	1.061	NO	45.59	91.2	0.0353	45.59
49	49 PCB-40	1.95e5	0.74	NO	0.577	1.000	34.19	34.17	1.069	1.068	NO	47.09	94.2	0.0679	47.09
50	50 PCB-57	3.85e5	0.74	NO	1.05	1.000	34.52	34.54	0.969	0.969	NO	49.09	98.2	0.0371	49.09
51	51 PCB-67	3.52e5	0.74	NO	0.993	1.000	34.84	34.85	0.978	0.978	NO	47.35	94.7	0.0391	47.35
52	52 PCB-58	3.96e5	0.75	NO	1.11	1.000	34.97	34.98	0.981	0.982	NO	47.51	95.0	0.0349	47.51
53	53 PCB-63	3.47e5	0.76	NO	0.962	1.000	35.13	35.13	0.986	0.986	NO	48.14	96.3	0.0404	48.14
54	54 PCB-74	3.79e5	0.74	NO	1.07	1.000	35.44	35.43	0.994	0.994	NO	47.39	94.8	0.0364	47.39
55	55 PCB-61/70	6.92e5	0.74	NO	0.986	1.000	35.65	35.65	1.000	1.000	NO	93.74	93.7	0.0394	93.74
56	56 PCB-76/66	7.60e5	0.73	NO	1.07	1.000	35.81	35.82	1.005	1.005	NO	95.11	95.1	0.0364	95.11
57	57 PCB-80	4.01e5	0.74	NO	1.08	1.000	36.08	36.08	1.001	1.000	NO	48.08	96.2	0.0343	48.08
58	58 PCB-55	3.91e5	0.75	NO	1.07	1.000	36.40	36.42	1.010	1.010	NO	47.49	95.0	0.0348	47.49
59	59 PCB-56/60	7.10e5	0.74	NO	0.934	1.000	36.94	36.92	1.024	1.024	NO	98.61	98.6	0.0398	98.61
60	60 PCB-79	3.84e5	0.75	NO	1.04	1.000	38.04	38.03	1.055	1.055	NO	47.73	95.5	0.0356	47.73
61	61 PCB-78	3.57e5	0.73	NO	1.03	1.000	38.74	38.74	0.987	0.987	NO	47.82	95.6	0.0408	47.82
62	62 PCB-81	3.30e5	0.74	NO	0.933	1.000	39.28	39.30	1.000	1.001	NO	48.98	98.0	0.0451	48.98
63	63 PCB-77	3.61e5	0.74	NO	1.03	1.000	39.92	39.92	1.000	1.000	NO	49.32	98.6	0.0412	49.32
64	64 PCB-104	4.24e5	1.48	NO	0.995	1.000	32.68	32.69	1.001	1.001	NO	47.90	95.8	0.0150	47.90
65	65 PCB-96	4.20e5	1.50	NO	0.996	1.000	34.00	33.98	1.041	1.041	NO	47.39	94.8	0.0150	47.39

Dataset: U:\VG11.PRO\Results\191107K2\191107K2-2.qld

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Name: 191107K2\_2, Date: 08-Nov-2019, Time: 02:17:16, ID: ST191107K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
66	66 PCB-103	3.14e5	1.51	NO	0.774	1.000	34.57	34.56	1.059	1.058	NO	45.63	91.3	0.0193	45.63
67	67 PCB-100	3.18e5	1.56	NO	0.778	1.000	34.95	34.91	1.070	1.069	NO	45.98	92.0	0.0192	45.98
68	68 PCB-94	2.51e5	1.56	NO	0.773	1.000	35.41	35.41	0.985	0.985	NO	49.41	98.8	0.0263	49.41
69	69 PCB-95/98/102	1.01e6	1.52	NO	1.01	1.000	35.88	35.90	0.999	0.999	NO	151.8	101	0.0201	151.8
70	70 PCB-93	2.40e5	1.54	NO	0.841	1.000	36.01	36.03	1.002	1.003	NO	43.33	86.7	0.0242	43.33
71	71 PCB-88/91	5.72e5	1.50	NO	0.890	1.000	36.36	36.36	1.012	1.012	NO	97.79	97.8	0.0229	97.80
72	72 PCB-121	4.11e5	1.53	NO	1.39	1.000	36.48	36.45	1.015	1.015	NO	45.11	90.2	0.0147	45.10
73	73 PCB-84/92	5.41e5	1.48	NO	0.879	1.000	37.32	37.31	0.990	0.990	NO	100.9	101	0.0249	100.9
74	74 PCB-89	3.04e5	1.54	NO	0.959	1.000	37.49	37.49	0.995	0.995	NO	51.90	104	0.0228	51.90
75	75 PCB-90/101	5.84e5	1.49	NO	0.944	1.000	37.70	37.70	1.000	1.000	NO	101.2	101	0.0231	101.2
76	76 PCB-113	3.85e5	1.50	NO	1.23	1.000	37.95	37.94	1.007	1.007	NO	51.27	103	0.0177	51.27
77	77 PCB-99	3.36e5	1.51	NO	1.12	1.000	38.05	38.03	1.010	1.009	NO	49.13	98.3	0.0195	49.13
78	78 PCB-119	3.89e5	1.50	NO	1.47	1.000	38.51	38.52	0.987	0.987	NO	49.20	98.4	0.0175	49.20
79	79 PCB-108/112	6.64e5	1.50	NO	1.25	1.000	38.67	38.69	0.991	0.991	NO	98.98	99.0	0.0206	98.98
80	80 PCB-83	4.04e5	1.51	NO	1.55	1.000	38.83	38.85	0.995	0.996	NO	48.58	97.2	0.0166	48.58
81	81 PCB-97	2.93e5	1.50	NO	1.07	1.000	39.06	39.06	1.001	1.001	NO	50.69	101	0.0239	50.69
82	82 PCB-86	2.60e5	1.51	NO	0.996	1.000	39.21	39.21	1.005	1.005	NO	48.57	97.1	0.0259	48.57
83	83 PCB-87/117/125	1.09e6	1.51	NO	1.33	1.000	39.32	39.34	1.008	1.008	NO	152.2	101	0.0193	152.2
84	84 PCB-111/115	8.51e5	1.49	NO	1.60	1.000	39.49	39.51	1.012	1.012	NO	98.89	98.9	0.0161	98.89
85	85 PCB-85/116	6.46e5	1.52	NO	1.22	1.000	39.61	39.62	1.015	1.015	NO	98.94	98.9	0.0212	98.94
86	86 PCB-120	4.28e5	1.49	NO	1.68	1.000	39.88	39.88	1.022	1.022	NO	47.34	94.7	0.0153	47.34
87	87 PCB-110	3.85e5	1.54	NO	1.49	1.000	40.02	40.03	1.026	1.026	NO	48.18	96.4	0.0173	48.18
88	88 PCB-82	2.39e5	1.53	NO	0.674	1.000	40.67	40.66	0.976	0.975	NO	53.21	106	0.0299	53.21
89	89 PCB-124	3.79e5	1.51	NO	1.16	1.000	41.38	41.38	0.993	0.993	NO	48.91	97.8	0.0174	48.91
90	90 PCB-107/109	7.60e5	1.49	NO	1.17	1.000	41.53	41.53	0.996	0.996	NO	97.88	97.9	0.0173	97.88
91	91 PCB-123	3.44e5	1.53	NO	1.04	1.000	41.70	41.70	1.000	1.000	NO	49.59	99.2	0.0194	49.59
92	92 PCB-106/118	7.33e5	1.53	NO	1.07	1.000	41.91	41.91	1.001	1.001	NO	99.02	99.0	0.0182	99.02
93	93 PCB-114	2.92e5	1.57	NO	1.16	1.000	42.56	42.56	1.000	1.000	NO	48.76	97.5	0.0640	48.76
94	94 PCB-122	2.57e5	1.60	NO	0.973	1.000	42.69	42.71	1.003	1.004	NO	51.20	102	0.0764	51.20
95	95 PCB-105	2.75e5	1.59	NO	1.10	1.000	43.45	43.45	1.000	1.000	NO	48.44	96.9	0.0680	48.44
96	96 PCB-127	2.98e5	1.57	NO	1.11	1.000	43.81	43.81	1.000	1.000	NO	49.43	98.9	0.0640	49.43
97	97 PCB-126	3.00e5	1.58	NO	1.21	1.000	45.76	45.76	1.000	1.000	NO	50.33	101	0.0664	50.33
98	98 PCB-155	3.59e5	1.23	NO	0.874	1.000	37.22	37.24	1.000	1.001	NO	48.04	96.1	0.0108	48.04
99	99 PCB-150	3.76e5	1.26	NO	0.881	1.000	38.54	38.54	1.036	1.036	NO	49.88	99.8	0.0107	49.88

Dataset: U:\VG11.PRO\Results\191107K2\191107K2-2.qld

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Name: 191107K2\_2, Date: 08-Nov-2019, Time: 02:17:16, ID: ST191107K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
100	1... PCB-152	4.27e5	1.27	NO	1.00	1.000	39.05	39.02	1.050	1.049	NO	49.75	99.575	0.00938	49.75
101	1... PCB-145	4.19e5	1.27	NO	1.00	1.000	39.51	39.49	1.062	1.061	NO	48.99	98.0	0.00942	48.99
102	1... PCB-136	3.59e5	1.25	NO	0.843	1.000	39.84	39.82	1.071	1.071	NO	49.85	99.7	0.0112	49.84
103	1... PCB-148	2.83e5	1.27	NO	0.693	1.000	39.98	39.93	1.075	1.074	NO	47.70	95.4	0.0136	47.70
104	1... PCB-154	3.00e5	1.28	NO	0.724	1.000	40.48	40.44	1.088	1.087	NO	48.43	96.9	0.0130	48.43
105	1... PCB-151	2.54e5	1.30	NO	0.632	1.000	41.14	41.10	1.106	1.105	NO	46.91	93.8	0.0149	46.91
106	1... PCB-135	2.97e5	1.25	NO	0.716	1.000	41.31	41.33	1.111	1.111	NO	48.47	96.9	0.0132	48.47
107	1... PCB-144	2.59e5	1.25	NO	0.667	1.000	41.42	41.44	1.114	1.114	NO	45.36	90.7	0.0141	45.36
108	1... PCB-147	2.76e5	1.25	NO	0.661	1.000	41.57	41.57	1.118	1.118	NO	48.81	97.6	0.0142	48.81
109	1... PCB-139/149	6.13e5	1.28	NO	0.738	1.000	41.91	41.85	1.127	1.125	NO	97.17	97.2	0.0128	97.17
110	1... PCB-140	2.59e5	1.26	NO	0.627	1.000	42.09	42.04	1.132	1.130	NO	48.30	96.6	0.0150	48.30
111	1... PCB-134/143	4.11e5	1.21	NO	0.733	1.000	42.51	42.49	0.975	0.974	NO	102.8	103	0.0606	102.8
112	1... PCB-131/133	4.39e5	1.21	NO	0.790	1.000	42.80	42.81	0.982	0.982	NO	102.0	102	0.0563	102.0
113	1... PCB-142	1.92e5	1.23	NO	0.708	1.000	42.95	42.96	0.985	0.985	NO	49.81	99.6	0.0628	49.81
114	1... PCB-146/165	5.00e5	1.18	NO	0.959	1.000	43.20	43.21	0.991	0.991	NO	95.64	95.6	0.0463	95.64
115	1... PCB-132/161	5.12e5	1.18	NO	0.974	1.000	43.44	43.43	0.996	0.996	NO	96.48	96.5	0.0456	96.48
116	1... PCB-153	2.66e5	1.17	NO	1.01	1.000	43.62	43.62	1.000	1.000	NO	48.24	96.5	0.0439	48.24
117	1... PCB-168	2.80e5	1.21	NO	1.02	1.000	43.85	43.85	1.006	1.006	NO	50.33	101	0.0436	50.33
118	1... PCB-141	2.24e5	1.23	NO	0.967	1.000	44.38	44.38	1.000	1.000	NO	48.36	96.7	0.0527	48.36
119	1... PCB-137	2.17e5	1.20	NO	0.987	1.000	44.76	44.78	1.009	1.009	NO	45.86	91.7	0.0516	45.86
120	1... PCB-130	1.90e5	1.22	NO	0.840	1.000	44.88	44.89	1.012	1.012	NO	47.26	94.5	0.0607	47.26
121	1... PCB-138/163/164	8.59e5	1.19	NO	1.23	1.000	45.27	45.29	1.001	1.001	NO	148.4	99.0	0.0430	148.4
122	1... PCB-158/160	5.30e5	1.19	NO	1.18	1.000	45.52	45.52	1.006	1.006	NO	95.28	95.3	0.0447	95.28
123	1... PCB-129	1.88e5	1.22	NO	0.819	1.000	45.77	45.76	1.012	1.012	NO	48.77	97.5	0.0643	48.77
124	1... PCB-166	2.97e5	1.20	NO	1.07	1.000	46.24	46.24	0.993	0.993	NO	49.70	99.4	0.0431	49.70
125	1... PCB-159	3.09e5	1.23	NO	1.12	1.000	46.58	46.58	1.000	1.000	NO	49.46	98.9	0.0412	49.46
126	1... PCB-128/162	4.90e5	1.23	NO	0.851	1.000	46.87	46.88	1.007	1.007	NO	103.0	103	0.0542	103.0
127	1... PCB-167	2.87e5	1.19	NO	1.04	1.000	47.28	47.30	1.000	1.001	NO	47.75	95.5	0.0424	47.75
128	1... PCB-156	2.86e5	1.19	NO	1.06	1.000	48.62	48.62	1.000	1.000	NO	48.84	97.7	0.0443	48.84
129	1... PCB-157	2.69e5	1.20	NO	0.978	1.000	48.91	48.89	1.001	1.000	NO	48.76	97.5	0.0460	48.76
130	1... PCB-169	2.89e5	1.21	NO	1.11	1.000	51.16	51.16	1.000	1.000	NO	48.42	96.8	0.0446	48.42
131	1... PCB-188	3.62e5	1.04	NO	1.19	1.000	43.26	43.24	1.001	1.000	NO	50.78	102	0.0297	50.78
132	1... PCB-184	3.53e5	1.00	NO	1.17	1.000	43.71	43.70	1.011	1.011	NO	50.60	101	0.0304	50.60
133	1... PCB-179	3.67e5	1.02	NO	1.18	1.000	44.52	44.49	1.030	1.029	NO	52.22	104	0.0301	52.22

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Name: 191107K2\_2, Date: 08-Nov-2019, Time: 02:17:16, ID: ST191107K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
134	1... PCB-176	3.58e5	1.04	NO	1.16	1.000	44.99	44.99	1.041	1.041	NO	51.72	103.75-125%	0.0305	51.72
135	1... PCB-186	3.85e5	1.01	NO	1.22	1.000	45.61	45.61	1.055	1.055	NO	52.83	106	0.0291	52.83
136	1... PCB-178	2.54e5	1.02	NO	0.830	1.000	46.12	46.12	1.067	1.067	NO	51.19	102	0.0426	51.20
137	1... PCB-175	2.54e5	1.04	NO	0.849	1.000	46.48	46.48	1.075	1.075	NO	50.04	100	0.0417	50.04
138	1... PCB-182/187	6.03e5	1.03	NO	0.960	1.000	46.68	46.67	1.080	1.080	NO	105.1	105	0.0369	105.1
139	1... PCB-183	3.04e5	1.04	NO	0.957	1.000	47.01	46.99	1.088	1.087	NO	53.13	106	0.0370	53.13
140	1... PCB-185	2.61e5	1.03	NO	1.32	1.000	47.68	47.66	0.955	0.955	NO	49.84	99.7	0.0401	49.84
141	1... PCB-174	2.51e5	1.04	NO	1.22	1.000	48.05	48.04	0.962	0.962	NO	51.90	104	0.0434	51.90
142	1... PCB-181	2.85e5	1.03	NO	1.41	1.000	48.15	48.15	0.964	0.964	NO	50.69	101	0.0374	50.69
143	1... PCB-177	2.38e5	1.03	NO	1.24	1.000	48.33	48.32	0.968	0.968	NO	48.35	96.7	0.0426	48.35
144	1... PCB-171	2.54e5	1.02	NO	1.24	1.000	48.62	48.62	0.974	0.974	NO	51.48	103	0.0426	51.48
145	1... PCB-173	2.32e5	1.01	NO	1.14	1.000	49.06	49.06	0.983	0.983	NO	51.09	102	0.0463	51.09
146	1... PCB-172	2.55e5	1.02	NO	1.31	1.000	49.55	49.53	0.992	0.992	NO	49.17	98.3	0.0404	49.17
147	1... PCB-192	3.29e5	1.00	NO	1.70	1.000	49.74	49.72	0.996	0.996	NO	48.68	97.4	0.0311	48.68
148	1... PCB-180	2.64e5	1.03	NO	1.32	1.000	49.95	49.95	1.000	1.000	NO	50.35	101	0.0400	50.35
149	1... PCB-193	3.05e5	1.02	NO	1.54	1.000	50.18	50.16	1.005	1.005	NO	49.86	99.7	0.0343	49.86
150	1... PCB-191	3.13e5	1.06	NO	1.57	1.000	50.42	50.42	1.010	1.010	NO	49.99	100	0.0336	49.99
151	1... PCB-170	2.31e5	1.06	NO	1.36	1.000	51.60	51.60	1.000	1.000	NO	47.46	94.9	0.0429	47.46
152	1... PCB-190	2.99e5	1.04	NO	1.84	1.000	51.79	51.81	1.004	1.004	NO	45.34	90.7	0.0317	45.34
153	1... PCB-189	3.42e5	1.03	NO	1.33	1.000	53.31	53.30	1.000	1.000	NO	49.83	99.7	0.0270	49.83
154	1... PCB-202	3.47e5	0.90	NO	1.02	1.000	48.85	48.83	1.001	1.000	NO	50.08	100	0.0164	50.08
155	1... PCB-201	3.05e5	0.88	NO	0.915	1.000	49.34	49.34	1.011	1.011	NO	49.29	98.6	0.0184	49.29
156	1... PCB-204	3.24e5	0.91	NO	0.979	1.000	49.49	49.49	1.014	1.014	NO	48.94	97.9	0.0172	48.95
157	1... PCB-197	3.24e5	0.88	NO	0.979	1.000	49.81	49.82	1.020	1.021	NO	48.89	97.8	0.0172	48.88
158	1... PCB-200	3.21e5	0.89	NO	0.954	1.000	50.76	50.75	1.040	1.040	NO	49.66	99.3	0.0176	49.66
159	1... PCB-198	2.60e5	0.90	NO	0.748	1.000	52.28	52.28	1.071	1.071	NO	51.35	103	0.0225	51.35
160	1... PCB-199	2.41e5	0.89	NO	0.706	1.000	52.39	52.41	1.073	1.074	NO	50.47	101	0.0238	50.47
161	1... PCB-196/203	5.42e5	0.90	NO	0.785	1.000	52.85	52.72	1.083	1.080	NO	102.1	102	0.0214	102.1
162	1... PCB-195	2.32e5	0.91	NO	1.03	1.000	53.97	53.98	0.984	0.984	NO	47.16	94.3	0.0250	47.16
163	1... PCB-194	2.66e5	0.90	NO	1.16	1.000	54.89	54.89	1.000	1.000	NO	48.27	96.5	0.0223	48.27
164	1... PCB-205	3.44e5	0.88	NO	1.40	1.000	55.15	55.16	1.005	1.005	NO	51.55	103	0.0184	51.55
165	1... PCB-208	2.82e5	1.32	NO	0.934	1.000	54.14	54.14	1.000	1.000	NO	49.46	98.9	0.0310	49.46
166	1... PCB-207	2.87e5	1.33	NO	0.912	1.000	54.46	54.46	1.006	1.006	NO	51.66	103	0.0318	51.66
167	1... PCB-206	2.42e5	1.30	NO	0.987	1.000	56.42	56.42	1.000	1.000	NO	48.80	97.6	0.0339	48.80

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Name: 191107K2\_2, Date: 08-Nov-2019, Time: 02:17:16, ID: ST191107K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R	RRT	Check RRT	Conc.	%Rec	DL	EMPC
168	1... PCB-209	3.08e5	1.17	NO	0.943	1.000	57.62	57.64	1.000	1.000	NO	49.04	98.175-125%	0.00550	49.04
169	1... 13C-PCB-1	1.21e6	3.45	NO	1.08	1.000	15.66	15.67	0.609	0.609	NO	104.7	105.50-145%	0.0605	
170	1... 13C-PCB-3	1.22e6	3.28	NO	1.09	1.000	18.32	18.33	0.712	0.713	NO	104.0	104	0.0598	
171	1... 13C-PCB-4	6.87e5	1.58	NO	0.640	1.000	19.68	19.69	0.765	0.766	NO	99.79	99.8	0.0362	
172	1... 13C-PCB-9	1.06e6	1.58	NO	0.995	1.000	21.52	21.53	0.837	0.837	NO	98.78	98.8	0.0233	
173	1... 13C-PCB-11	1.04e6	1.55	NO	0.971	1.000	25.00	25.00	0.972	0.972	NO	99.44	99.4	0.0239	
174	1... 13C-PCB-19	7.63e5	1.00	NO	0.637	1.000	23.94	23.94	0.931	0.931	NO	111.3	111	0.306	
175	1... 13C-PCB-32	1.03e6	1.01	NO	0.910	1.000	26.96	26.95	1.048	1.048	NO	105.4	105	0.214	
176	1... 13C-PCB-28	8.62e5	1.01	NO	1.07	1.000	28.95	28.97	1.003	1.004	NO	102.6	103	0.282	
177	1... 13C-PCB-37	7.78e5	1.05	NO	0.959	1.000	32.94	32.97	1.141	1.143	NO	103.1	103	0.315	
178	1... 13C-PCB-54	8.74e5	0.75	NO	1.10	1.000	27.81	27.80	0.754	0.753	NO	107.2	107	0.0724	
179	1... 13C-PCB-52	6.80e5	0.75	NO	0.844	1.000	31.47	31.47	0.853	0.853	NO	108.5	108	0.0942	
180	1... 13C-PCB-47	7.17e5	0.75	NO	0.893	1.000	31.99	31.99	0.867	0.867	NO	108.1	108	0.0890	
181	1... 13C-PCB-70	7.49e5	0.78	NO	1.01	1.000	35.61	35.63	0.965	0.966	NO	100.1	100	0.0789	
182	1... 13C-PCB-80	7.70e5	0.76	NO	1.05	1.000	36.04	36.06	0.977	0.977	NO	99.16	99.2	0.0760	
183	1... 13C-PCB-81	7.23e5	0.77	NO	0.985	1.000	39.26	39.26	1.064	1.064	NO	98.85	98.8	0.0807	
184	1... 13C-PCB-77	7.08e5	0.77	NO	0.958	1.000	39.87	39.90	1.080	1.081	NO	99.46	99.5	0.0830	
185	1... 13C-PCB-104	8.89e5	1.57	NO	1.10	1.000	32.67	32.66	0.827	0.827	NO	108.4	108	0.0397	
186	1... 13C-PCB-95	6.58e5	1.60	NO	0.852	1.000	35.95	35.93	0.910	0.910	NO	103.2	103	0.0511	
187	1... 13C-PCB-101	6.11e5	1.57	NO	0.814	1.000	37.70	37.68	0.955	0.954	NO	100.4	100	0.0535	
188	1... 13C-PCB-97	5.37e5	1.56	NO	0.709	1.000	39.04	39.02	0.989	0.988	NO	101.3	101	0.0613	
189	1... 13C-PCB-123	6.66e5	1.56	NO	0.922	1.000	41.67	41.68	1.055	1.056	NO	96.63	96.6	0.0472	
190	1... 13C-PCB-118	6.92e5	1.55	NO	0.975	1.000	41.86	41.87	1.060	1.060	NO	94.98	95.0	0.0446	
191	1... 13C-PCB-114	5.15e5	1.57	NO	1.52	1.000	42.54	42.54	0.908	0.908	NO	80.44	80.4	0.0468	
192	1... 13C-PCB-105	5.16e5	1.59	NO	1.58	1.000	43.43	43.43	0.927	0.927	NO	77.25	77.2	0.0449	
193	1... 13C-PCB-127	5.44e5	1.60	NO	1.62	1.000	43.79	43.79	0.935	0.935	NO	79.52	79.5	0.0439	
194	1... 13C-PCB-126	4.91e5	1.58	NO	1.45	1.000	45.74	45.74	0.976	0.976	NO	80.54	80.5	0.0492	
195	1... 13C-PCB-155	8.55e5	1.25	NO	1.03	1.000	37.21	37.20	0.942	0.942	NO	111.5	111	0.0162	
196	1... 13C-PCB-153	5.45e5	1.24	NO	1.42	1.000	43.61	43.60	0.931	0.931	NO	90.76	90.8	0.0631	
197	1... 13C-PCB-141	4.79e5	1.25	NO	1.14	1.000	44.38	44.36	0.947	0.947	NO	99.33	99.3	0.0787	
198	1... 13C-PCB-138	4.72e5	1.25	NO	1.18	1.000	45.23	45.23	0.966	0.966	NO	94.78	94.8	0.0762	
199	1... 13C-PCB-159	5.59e5	1.24	NO	1.43	1.000	46.58	46.56	0.994	0.994	NO	92.46	92.5	0.0627	
200	2... 13C-PCB-167	5.77e5	1.24	NO	1.42	1.000	47.28	47.26	1.009	1.009	NO	96.09	96.1	0.0631	
201	2... 13C-PCB-156	5.53e5	1.22	NO	1.40	1.000	48.60	48.60	1.038	1.038	NO	93.89	93.9	0.0643	

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202	2... 13C-PCB-157	5.65e5	1.27	NO	1.41	1.000	48.89	48.87	1.044	1.043	NO	95.20	95.20-145 %	0.0639	
203	2... 13C-PCB-169	5.40e5	1.23	NO	1.35	1.000	51.16	51.14	1.092	1.092	NO	95.06	95.1	0.0668	
204	2... 13C-PCB-188	5.98e5	0.42	NO	1.46	1.000	43.21	43.22	0.926	0.927	NO	92.02	92.0	0.0508	
205	2... 13C-PCB-180	3.97e5	0.42	NO	0.932	1.000	49.91	49.93	1.070	1.070	NO	96.01	96.0	0.0797	
206	2... 13C-PCB-170	3.57e5	0.44	NO	0.796	1.000	51.58	51.58	1.106	1.106	NO	101.2	101	0.0934	
207	2... 13C-PCB-189	5.15e5	0.45	NO	1.09	1.000	53.26	53.28	1.142	1.142	NO	106.4	106	0.0682	
208	2... 13C-PCB-202	6.76e5	0.91	NO	1.45	1.000	48.81	48.81	1.046	1.046	NO	105.0	105	0.0263	
209	2... 13C-PCB-194	4.76e5	0.90	NO	0.714	1.000	54.89	54.87	0.995	0.995	NO	98.41	98.4	0.0442	
210	2... 13C-PCB-208	6.09e5	0.78	NO	0.896	1.000	54.13	54.13	0.982	0.981	NO	100.2	100	0.0366	
211	2... 13C-PCB-206	5.01e5	0.78	NO	0.653	1.000	56.41	56.41	1.023	1.023	NO	113.2	113	0.0502	
212	2... 13C-PCB-209	6.66e5	1.20	NO	0.806	1.000	57.64	57.62	1.045	1.045	NO	121.8	122	0.0114	
213	2... 13C-PCB-15	1.08e6	1.60	NO	1.00	1.000	25.74	25.72	1.000	0.000	NO	100.0	100	0.0232	
214	2... 13C-PCB-31	7.86e5	1.02	NO	1.00	1.000	28.90	28.86	1.000	0.000	NO	100.0	100	0.302	
215	2... 13C-PCB-60	7.43e5	0.75	NO	1.00	1.000	36.94	36.90	1.000	0.000	NO	100.0	100	0.0795	
216	2... 13C-PCB-111	7.48e5	1.55	NO	1.00	1.000	39.51	39.49	1.000	0.000	NO	100.0	100	0.0435	
217	2... 13C-PCB-128	4.22e5	1.22	NO	1.00	1.000	46.86	46.84	1.000	0.000	NO	100.0	100	0.0899	
218	2... 13C-PCB-182	4.44e5	0.44	NO	1.00	1.000	46.69	46.65	0.000	0.000	NO	100.0	100	0.0743	
219	2... 13C-PCB-205	6.78e5	0.90	NO	1.00	1.000	55.16	55.15	1.000	0.000	NO	100.0	100	0.0316	
220	2... 13C-PCB-79	7.67e5	0.77	NO	1.03	1.000	38.03	38.02	1.031	1.030	NO	100.0	100 75-125 %	0.0771	
221	2... 13C-PCB-178	3.96e5	0.44	NO	0.875	1.000	46.10	46.10	0.988	0.988	NO	107.3	107	0.0908	
222	2... 13C-PCB-79	7.67e5	0.77	NO	1.05	1.000	37.99	38.02	0.967	0.968	NO	101.4	101	0.0805	
223	2... 13C-PCB-178	3.96e5	0.44	NO	0.975	1.000	46.12	46.10	0.924	0.923	NO	102.2	102	0.0874	



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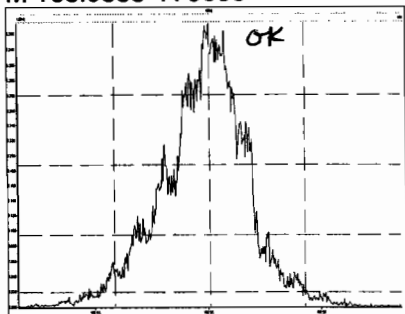
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Compound name: PCB-1

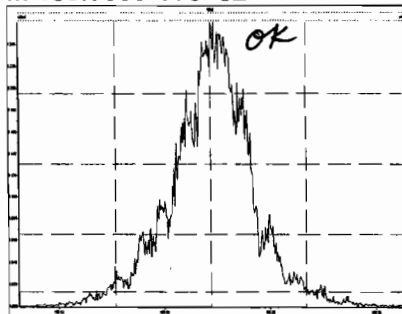
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1	191107K2_1	SOLVENT BLANK	08-Nov-19	01:15:43
2	191107K2_2	ST191107K2-1 PCB 209 CS3 19C1106	08-Nov-19	02:17:16
3	191107K2_3	SOLVENT BLANK	08-Nov-19	03:17:59
4	191107K2_4	1903590-01 SPC000001187(570-9695-1) 2.01...	08-Nov-19	04:18:53
5	191107K2_5	1903655-01 PDI-032SC-A-00-01-191010 6.12	08-Nov-19	05:19:47
6	191107K2_6	1903655-06 PDI-035SC-A-00-01-191010 8.12	08-Nov-19	06:21:27
7	191107K2_7	1903588-14RE1@20X A4-FPS-203-0-12-0919...	08-Nov-19	07:23:01
8	191107K2_8	1903588-14RE1 A4-FPS-203-0-12-0919-MDN...	08-Nov-19	08:23:40
9	191107K2_9	1903588-18RE1 A4-FPS-202-12-24-0919-MD...	08-Nov-19	09:24:52

Printed: Friday, November 08, 2019 01:14:26 Pacific Standard Time

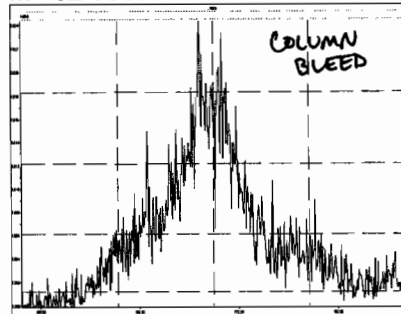
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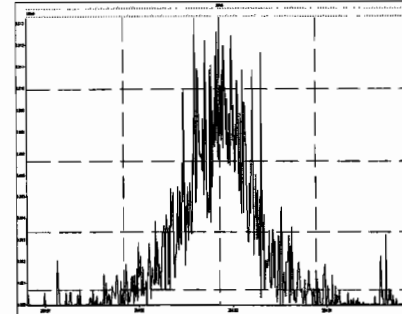
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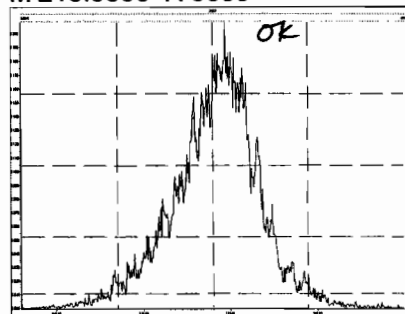
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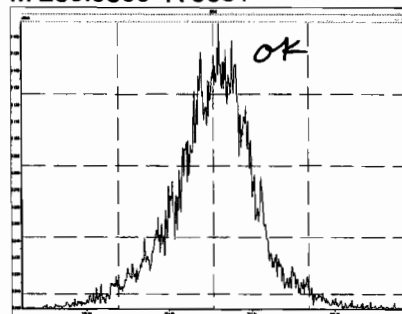
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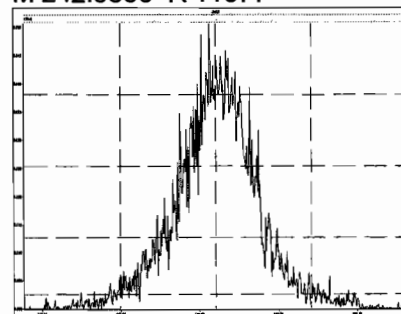
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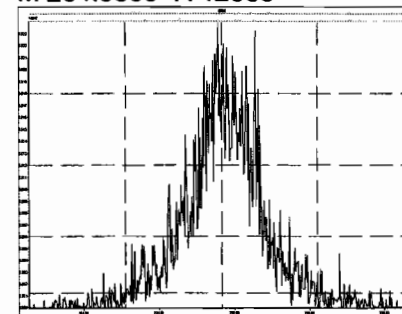
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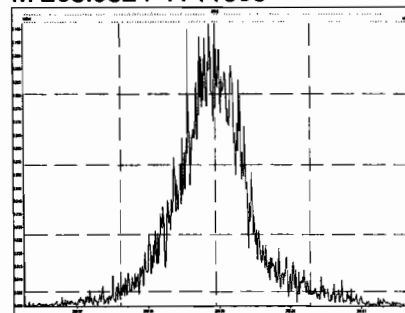
M 242.9856 R 11677



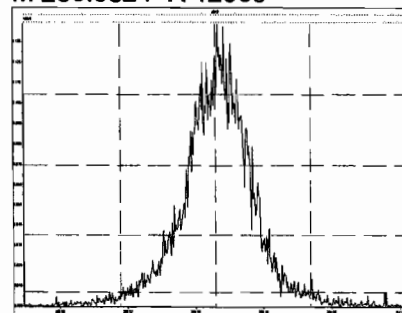
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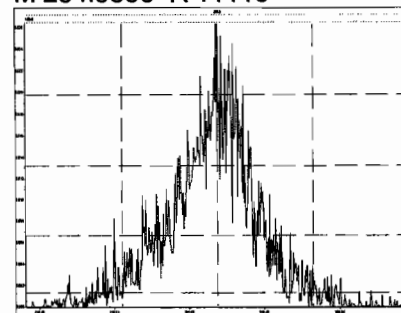
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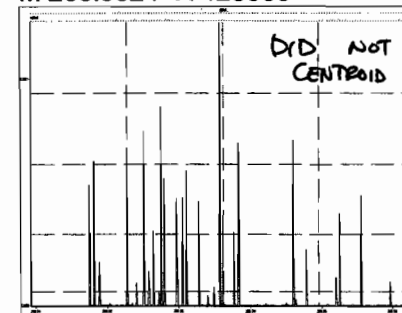
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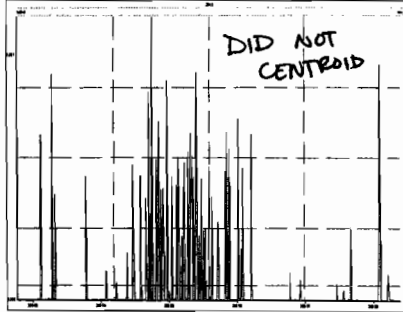


Resolution Check Report

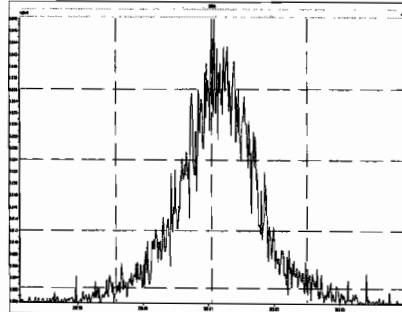
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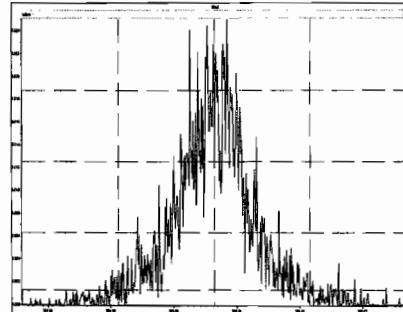
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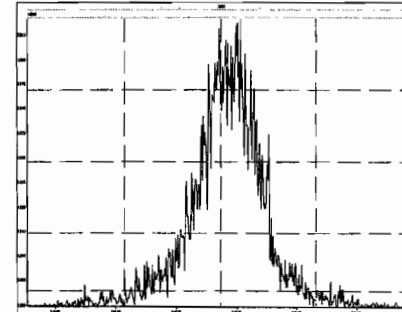
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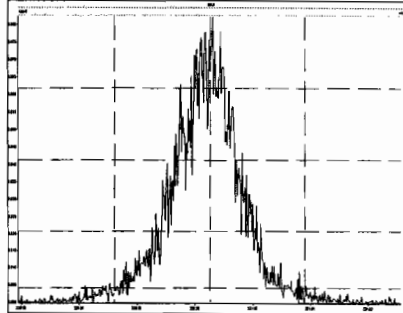
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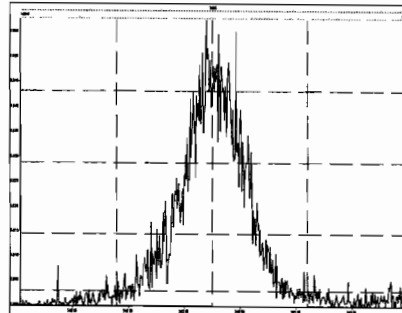
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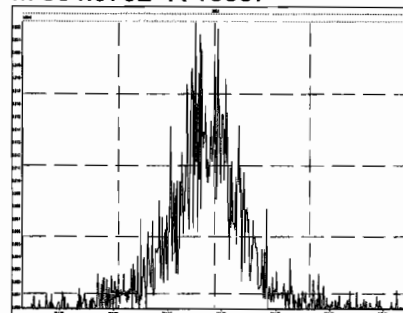
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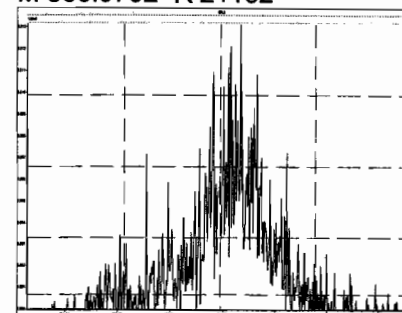
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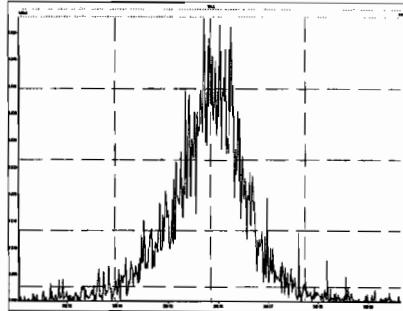
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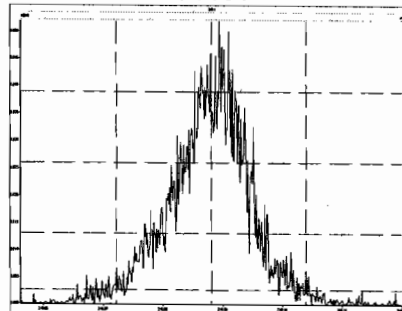
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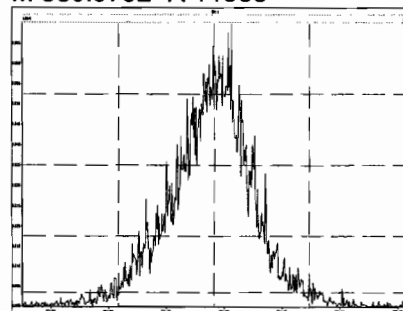
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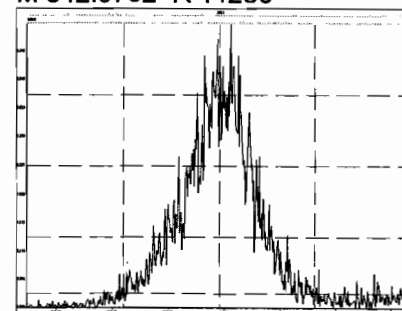
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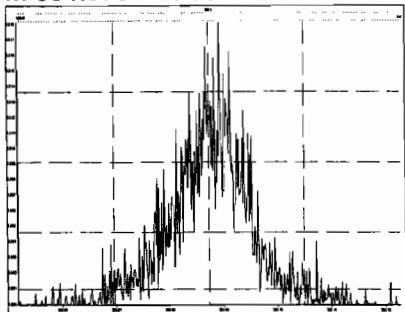


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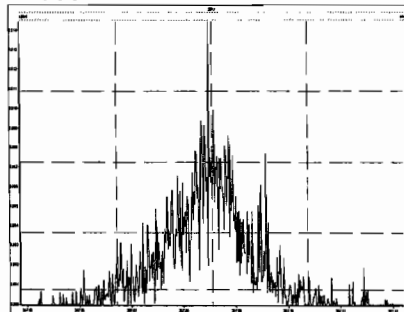


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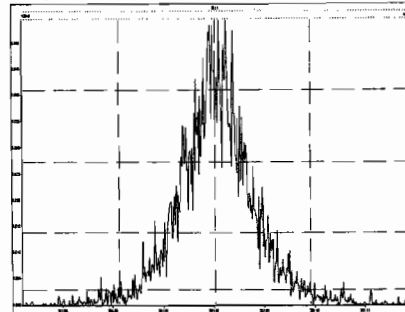
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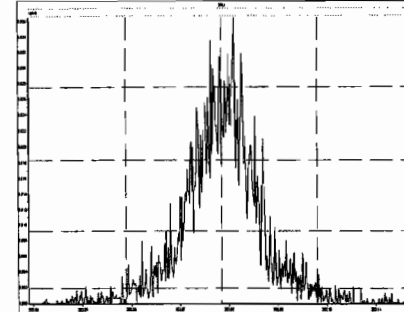
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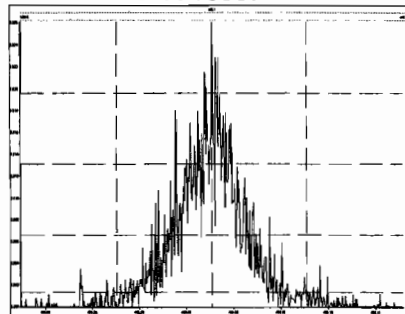
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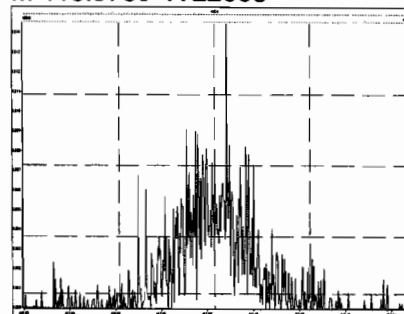
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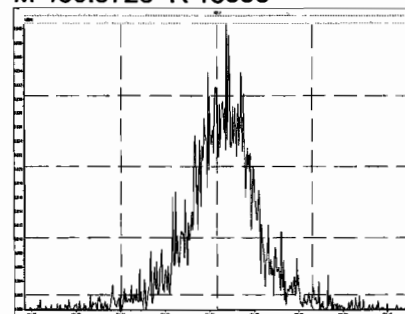
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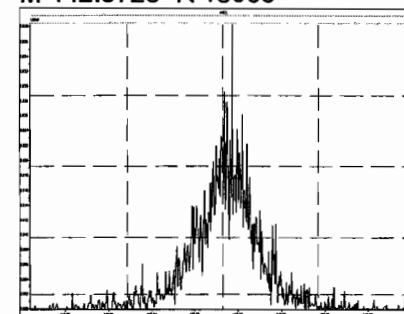
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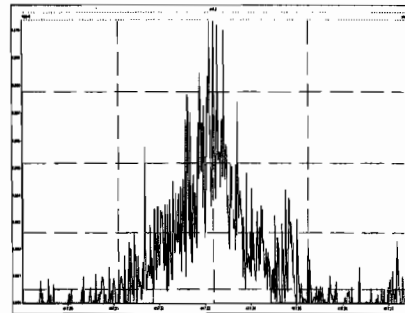
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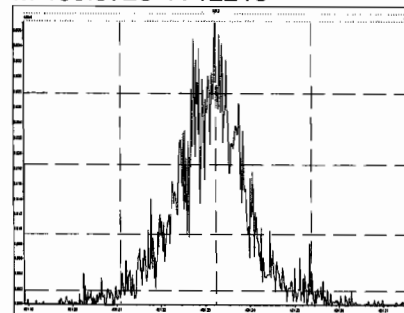
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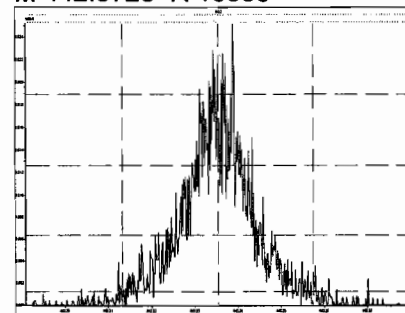
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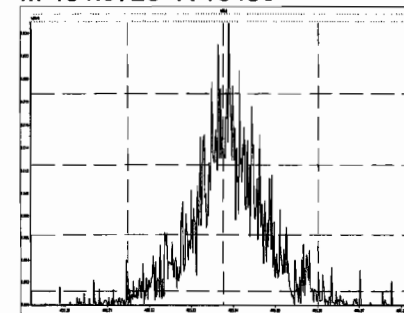
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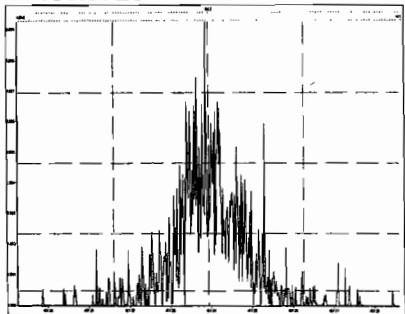


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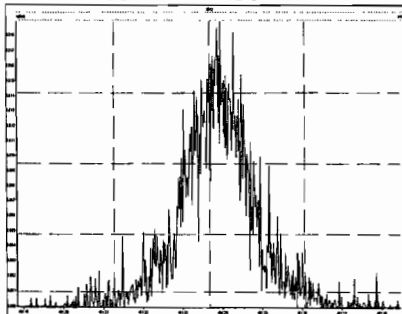


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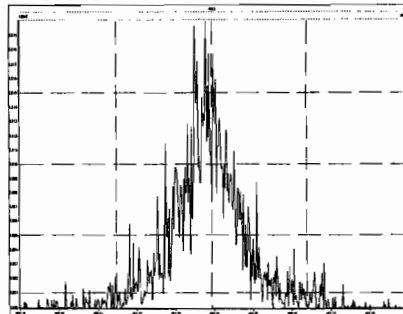
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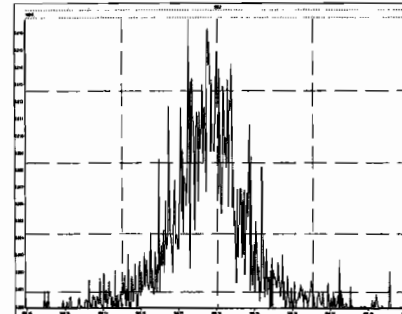
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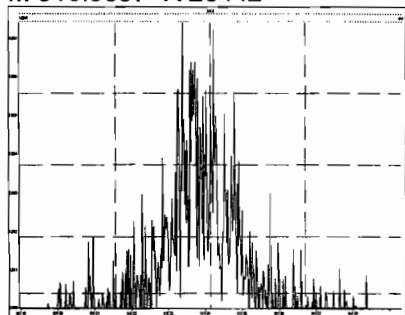
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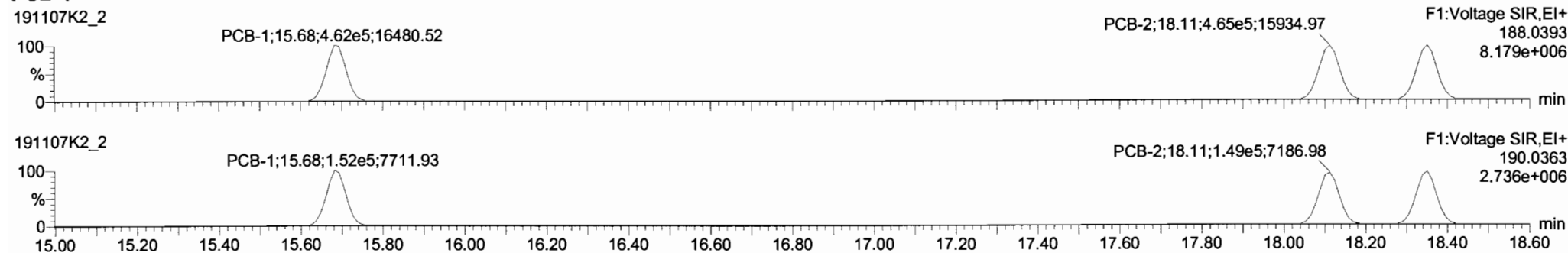
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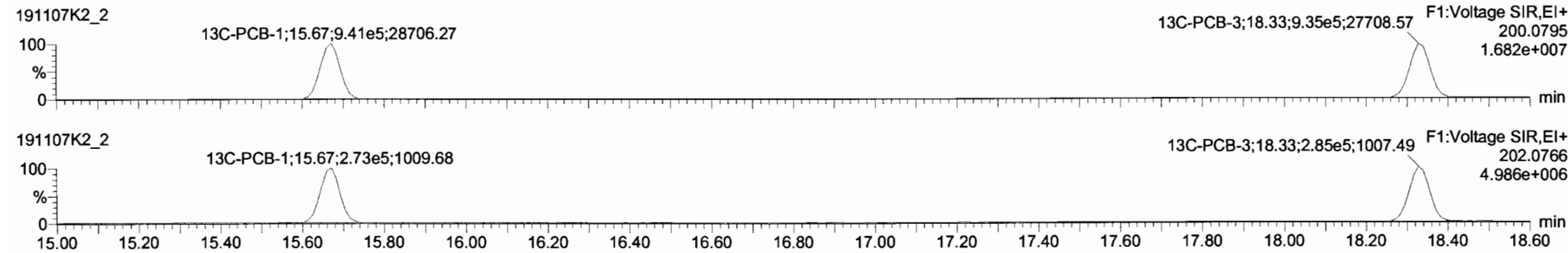
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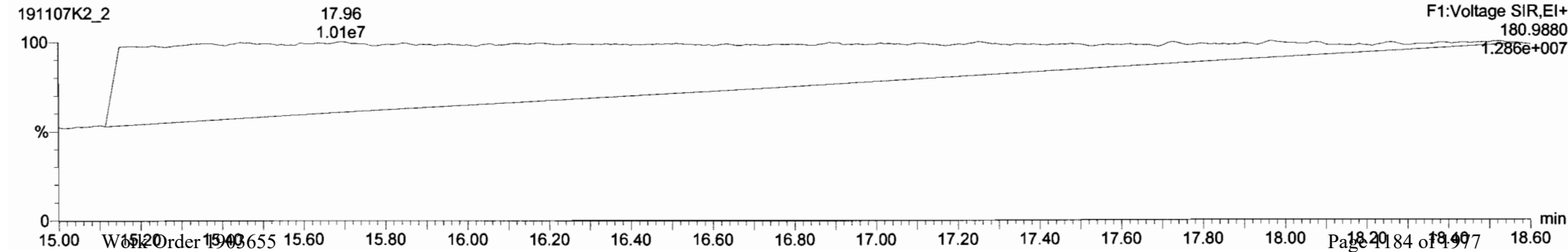
**PCB-1**



**13C-PCB-1**



**PFK1**

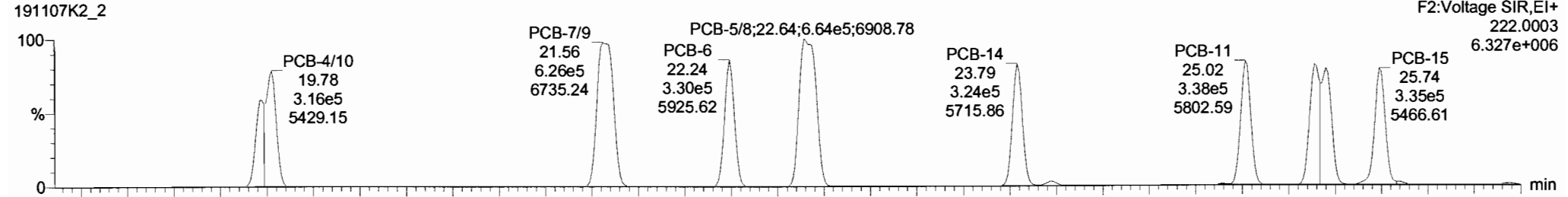


Dataset: Untitled

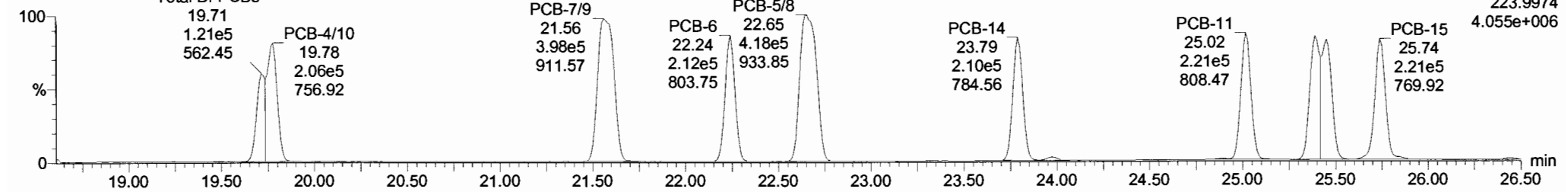
Last Altered: Friday, November 08, 2019 10:55:17 Pacific Standard Time  
Printed: Friday, November 08, 2019 10:55:41 Pacific Standard Time

Name: 191107K2\_2, Date: 08-Nov-2019, Time: 02:17:16, ID: ST191107K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

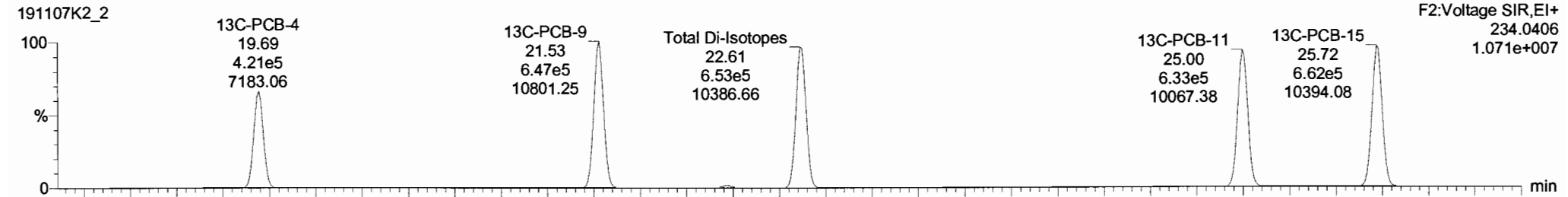
**PCB-4/10**



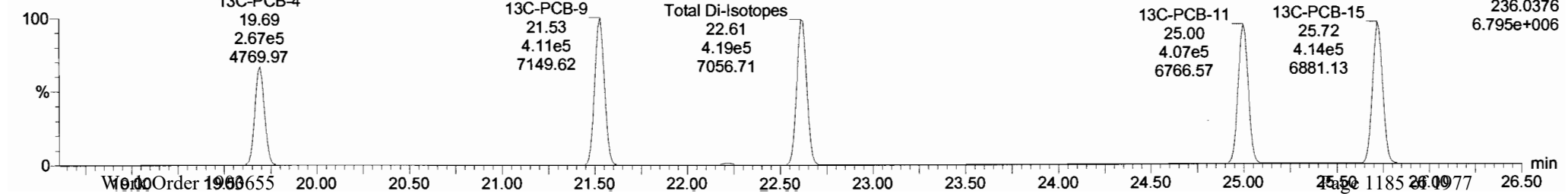
**Total Di-PCBs**

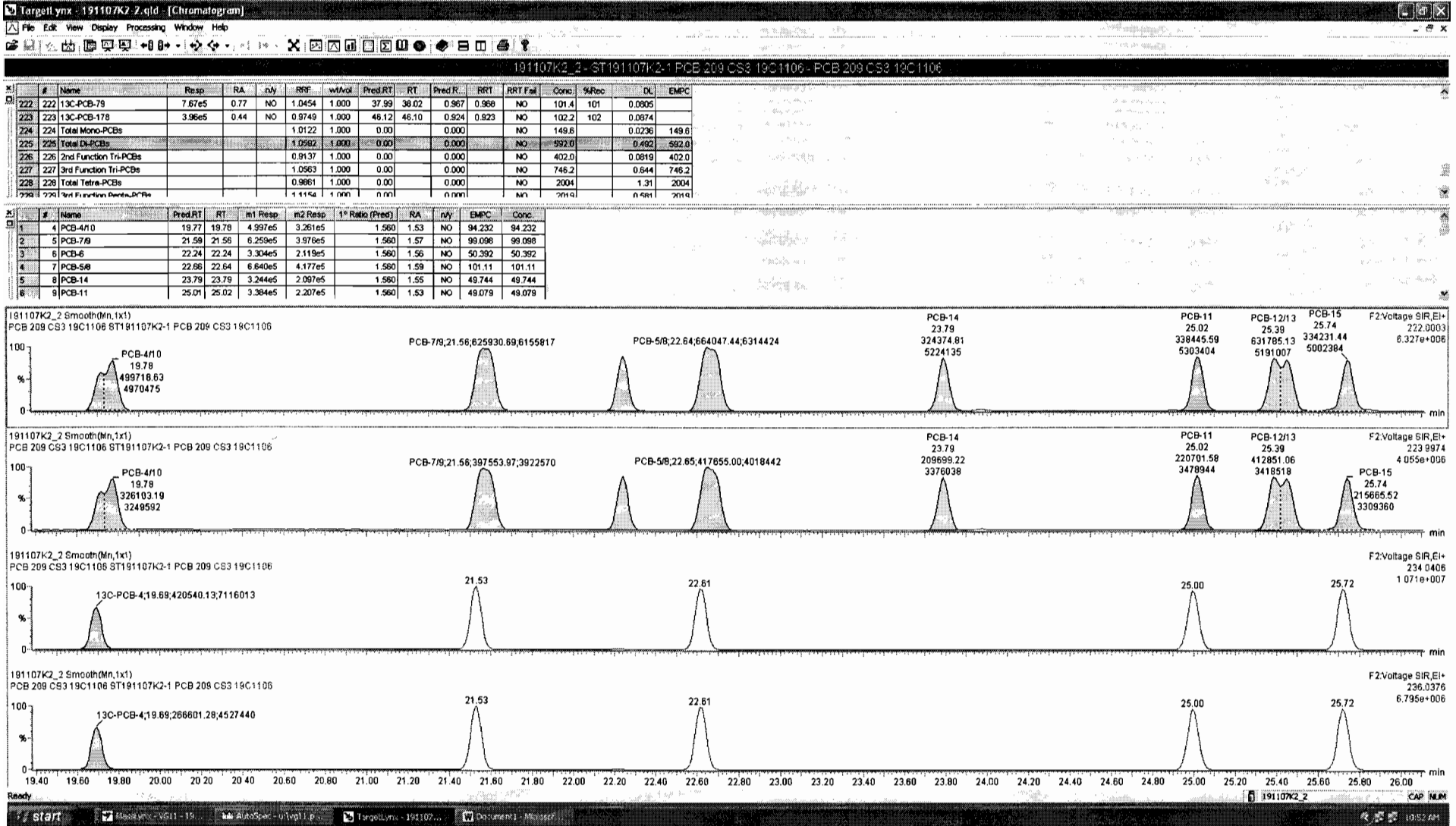


**13C-PCB-4**



**13C-PCB-4**







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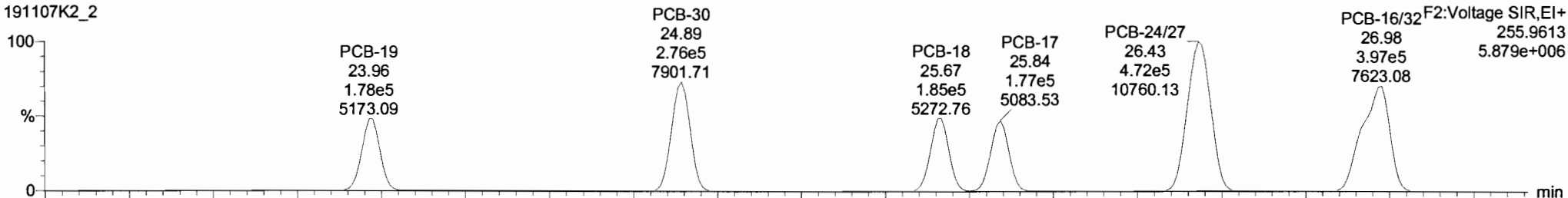
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Printed: Friday, November 08, 2019 10:55:41 Pacific Standard Time

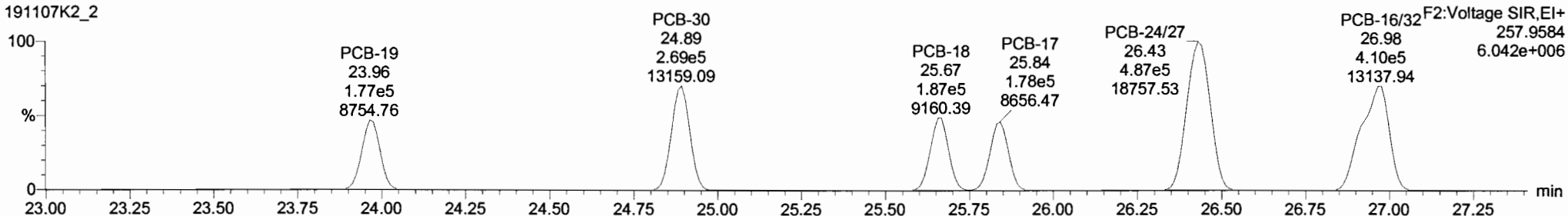
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**PCB-19**

191107K2\_2

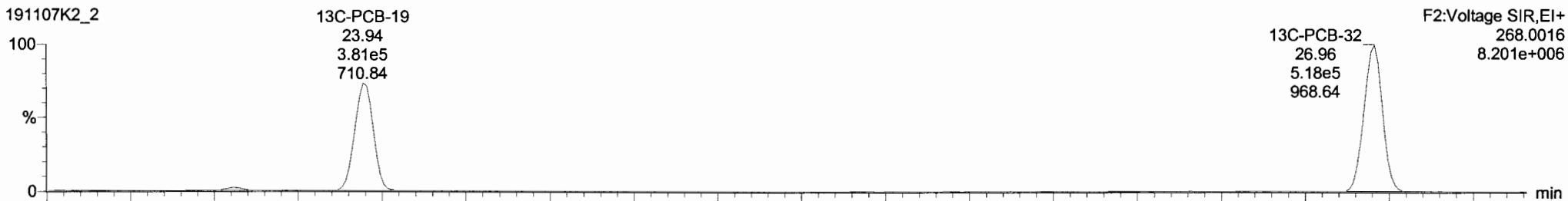


191107K2\_2

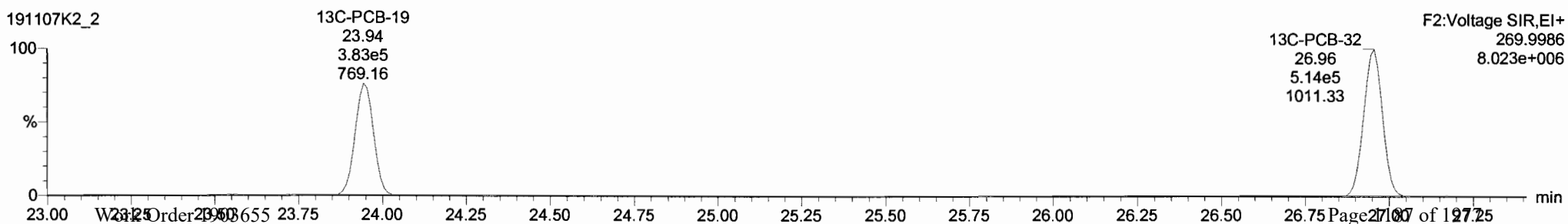


**13C-PCB-19**

191107K2\_2



191107K2\_2



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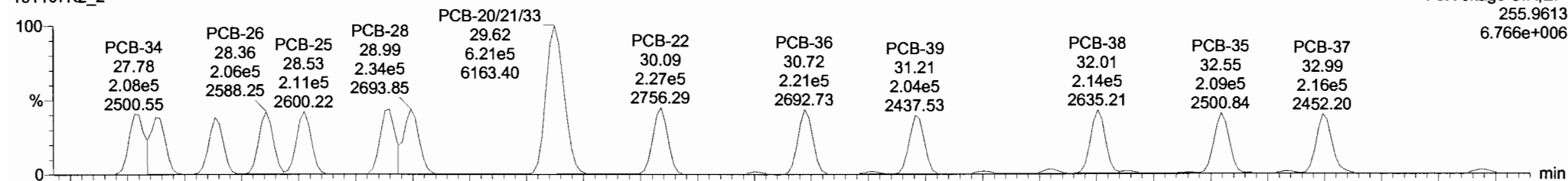
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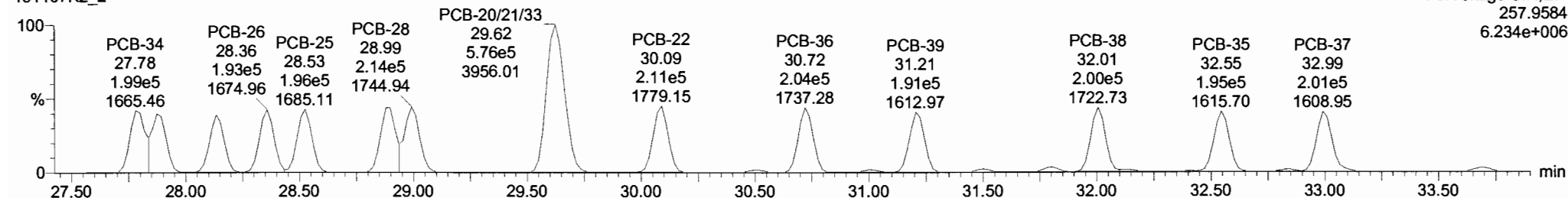
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**PCB-34**

191107K2\_2

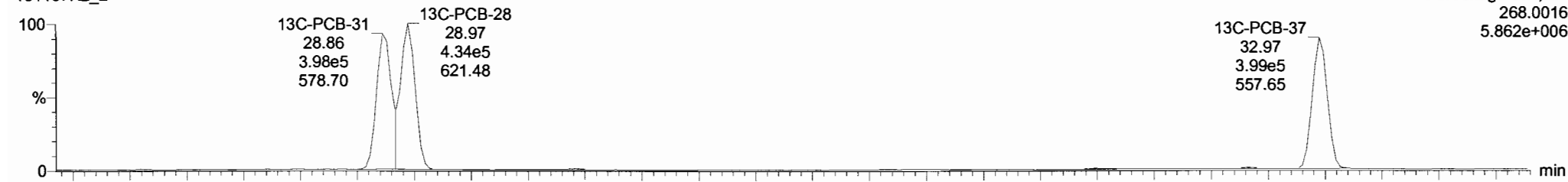


191107K2\_2

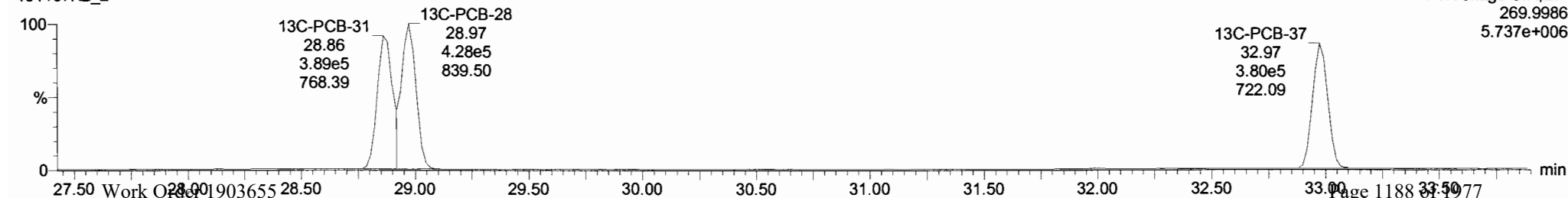


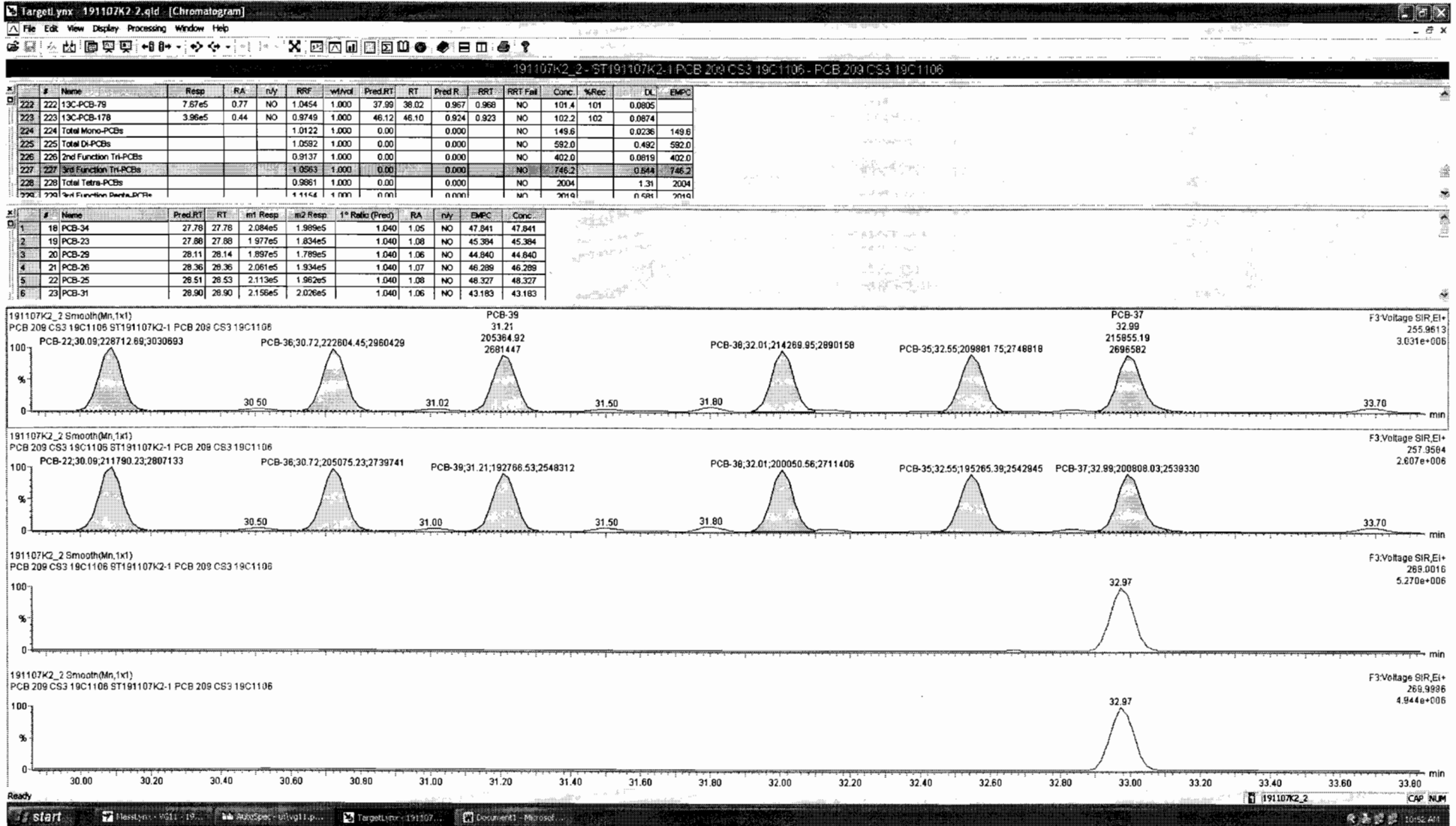
**13C-PCB-28**

191107K2\_2



191107K2\_2





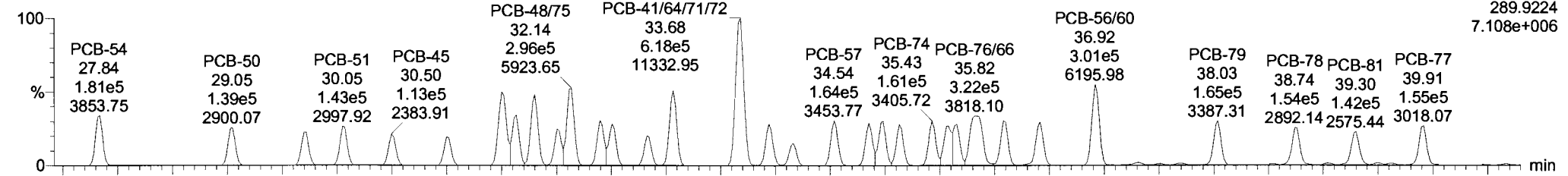
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Printed: Friday, November 08, 2019 10:55:41 Pacific Standard Time

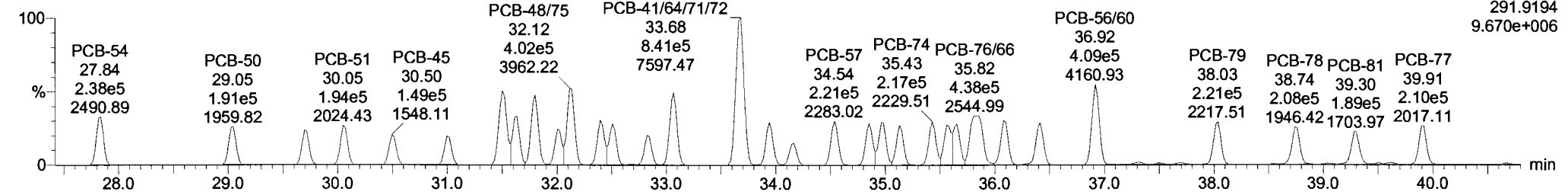
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**PCB-54**

191107K2\_2

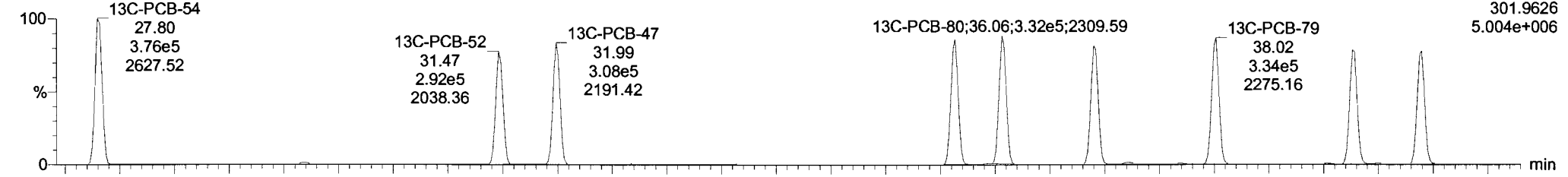


191107K2\_2

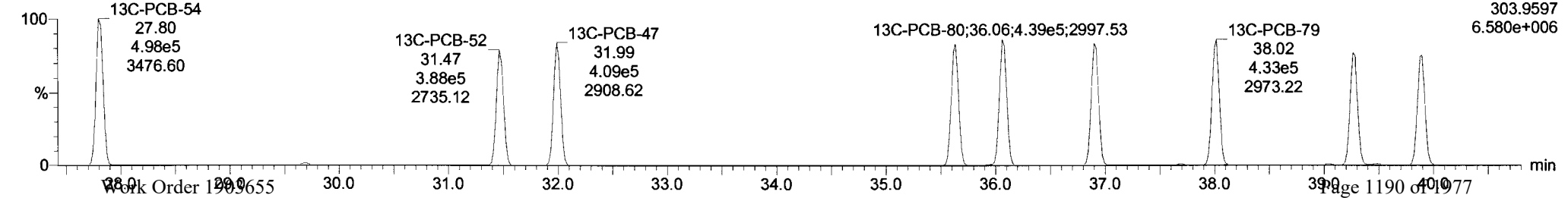


**13C-PCB-54**

191107K2\_2



191107K2\_2

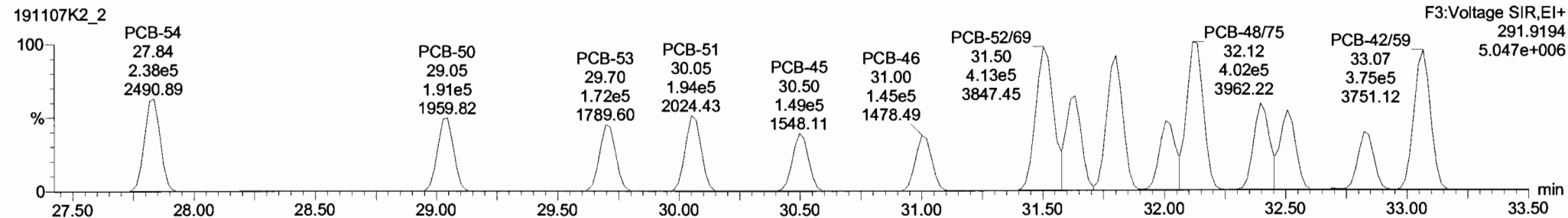
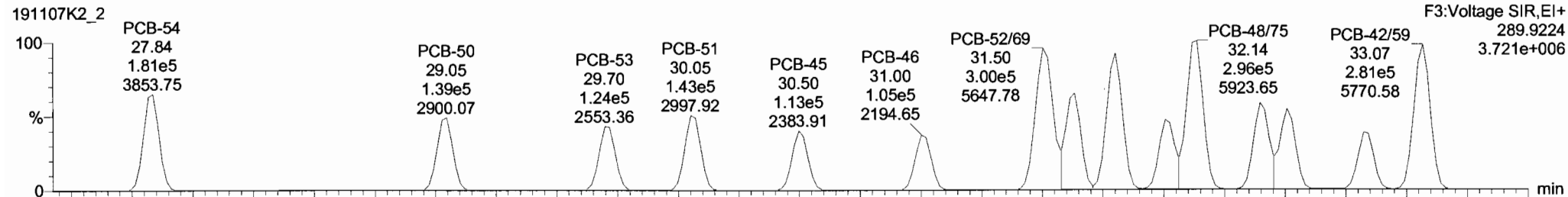


Dataset: Untitled

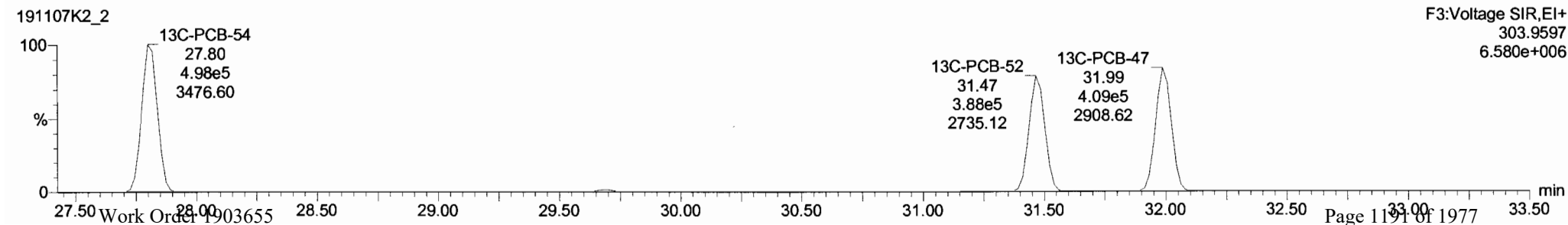
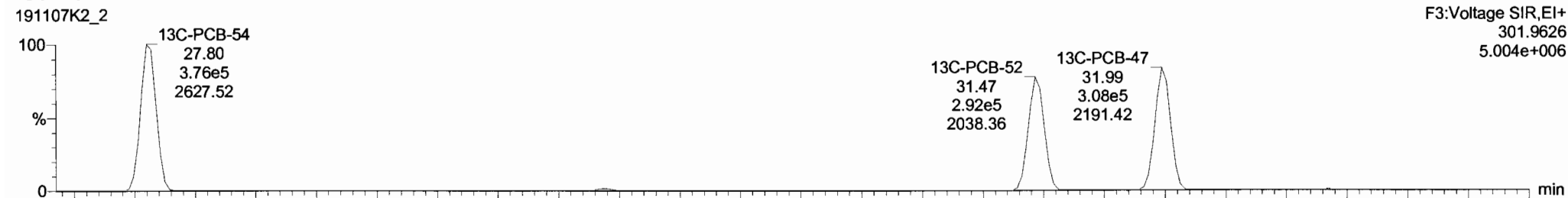
Last Altered: Friday, November 08, 2019 10:55:17 Pacific Standard Time  
Printed: Friday, November 08, 2019 10:55:41 Pacific Standard Time

Name: 191107K2\_2, Date: 08-Nov-2019, Time: 02:17:16, ID: ST191107K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

PCB-50



13C-PCB-52



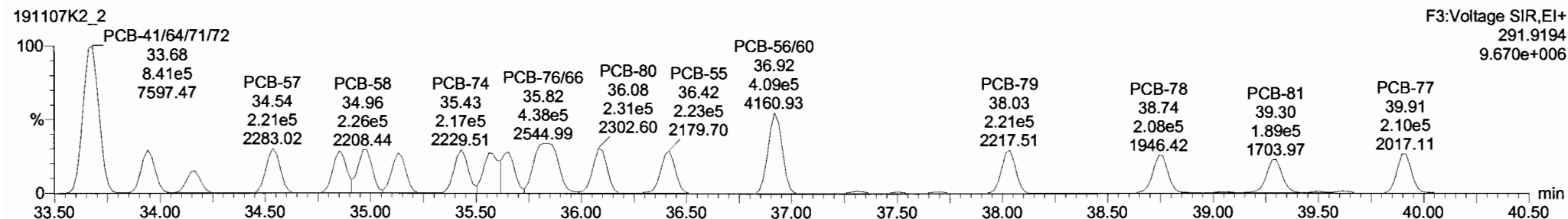
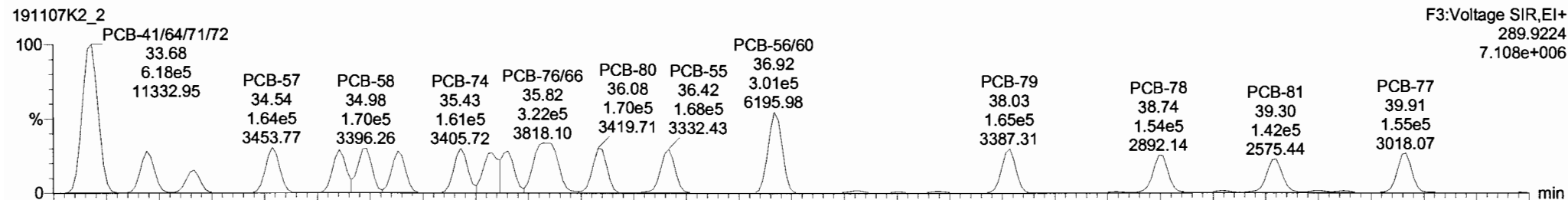
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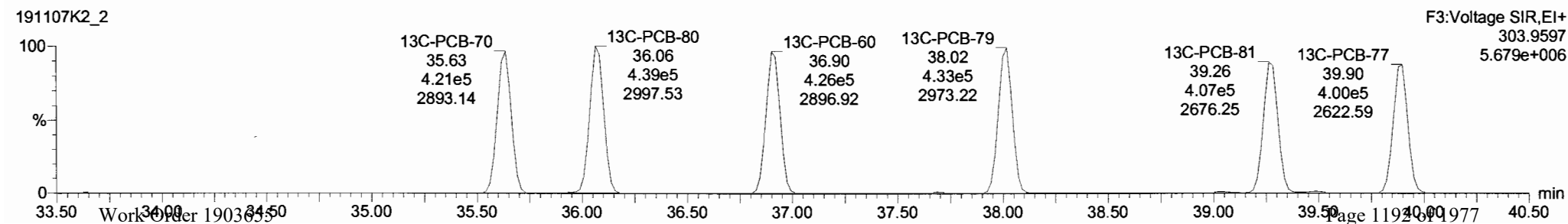
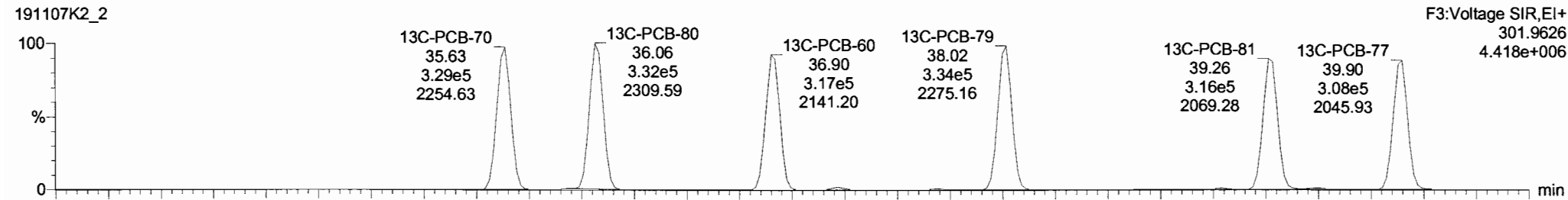
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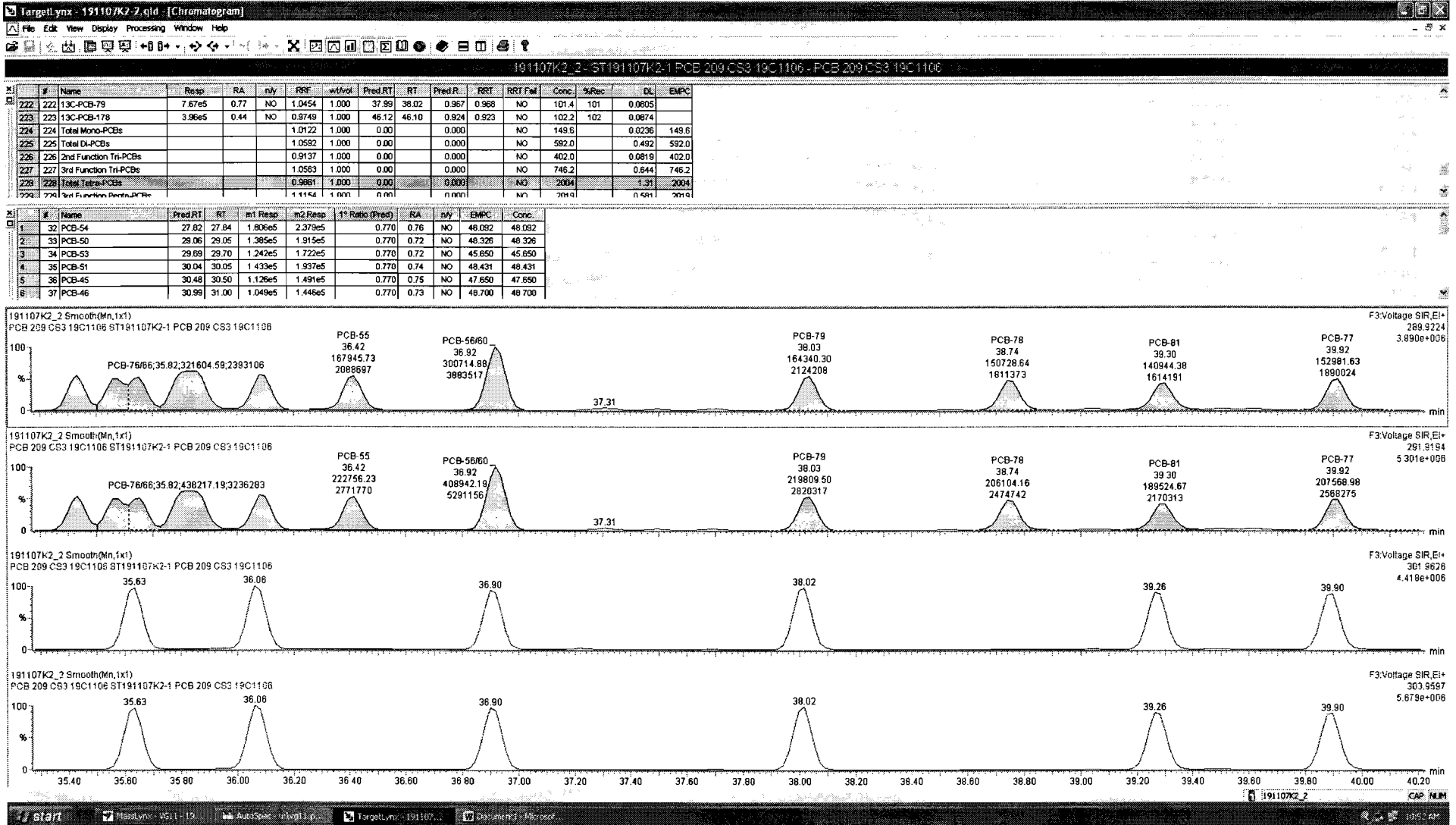
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PCB-68



13C-PCB-60





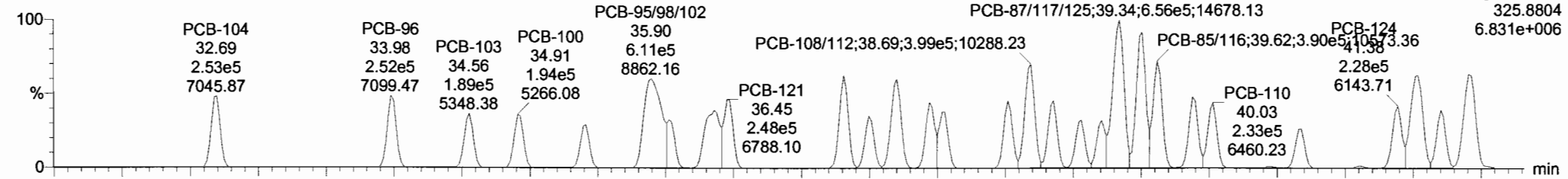
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Printed: Friday, November 08, 2019 10:55:41 Pacific Standard Time

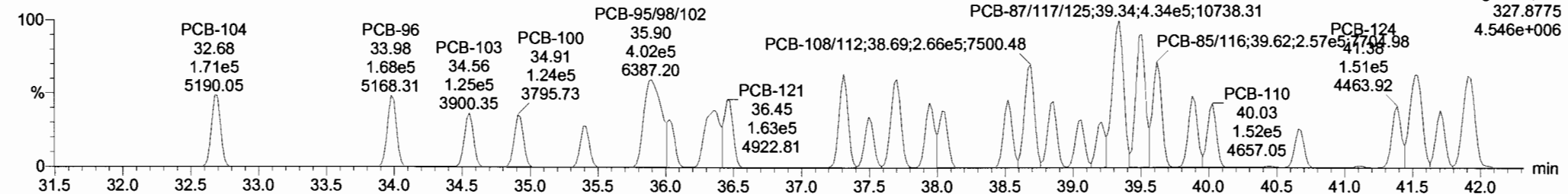
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**PCB-104**

191107K2\_2

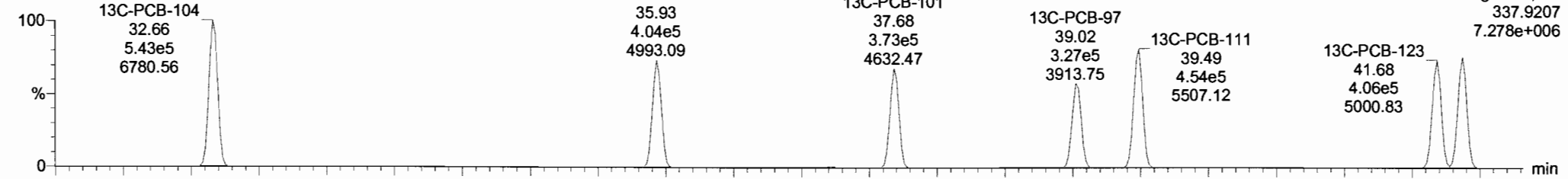


191107K2\_2

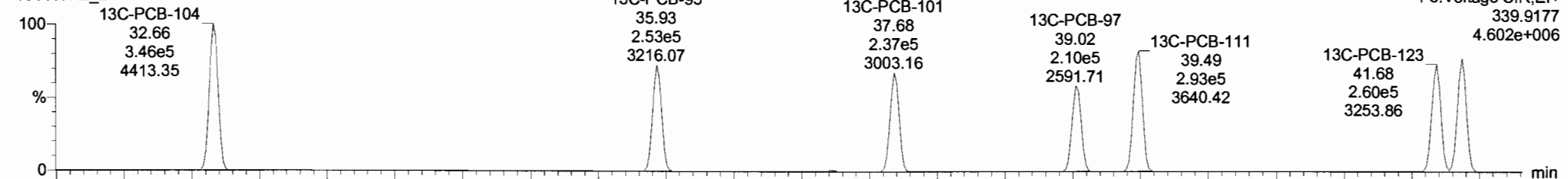


**13C-PCB-104**

191107K2\_2



191107K2\_2





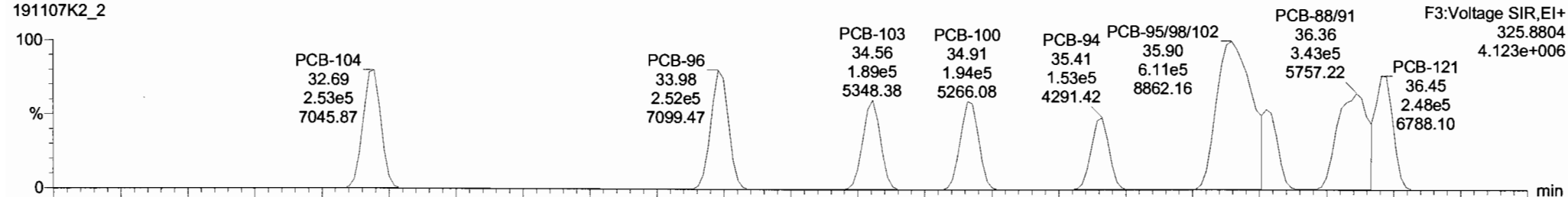
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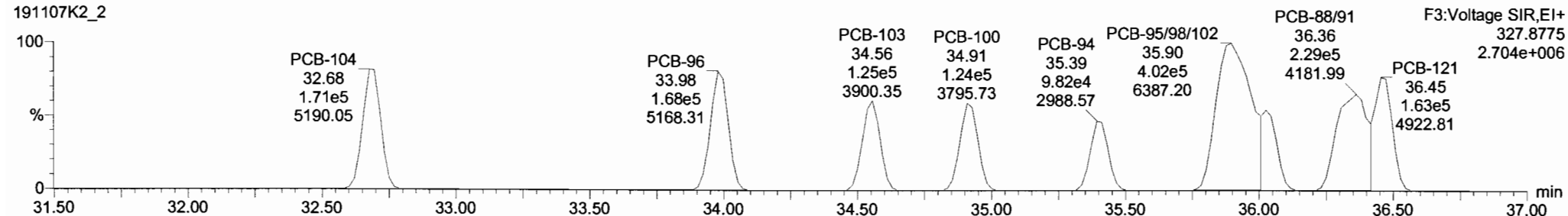
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**PCB-96**

191107K2\_2

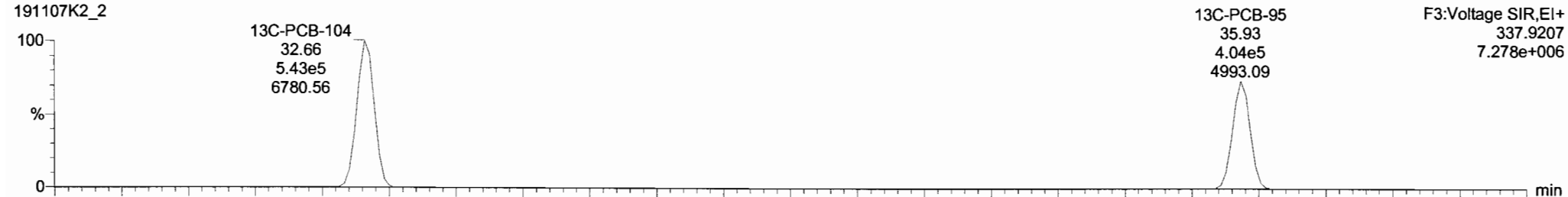


191107K2\_2



**13C-PCB-95**

191107K2\_2



191107K2\_2

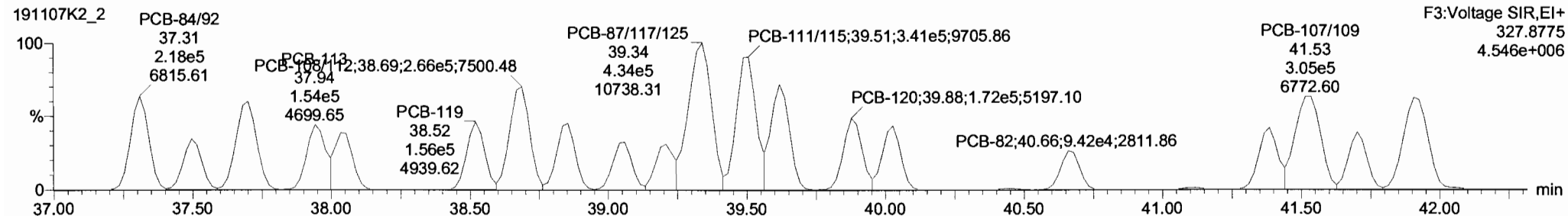
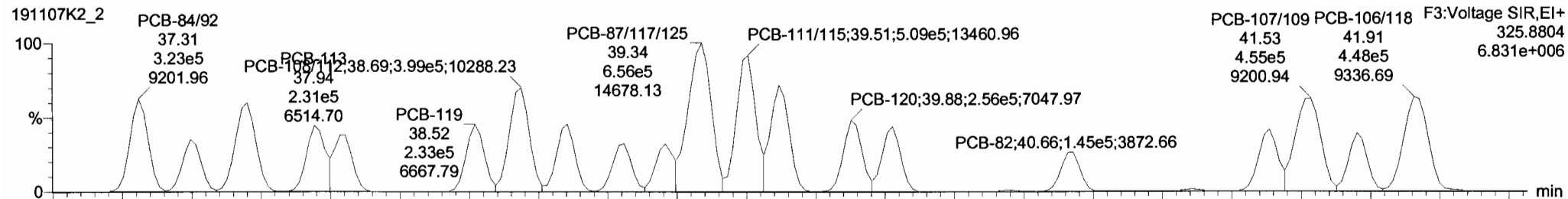


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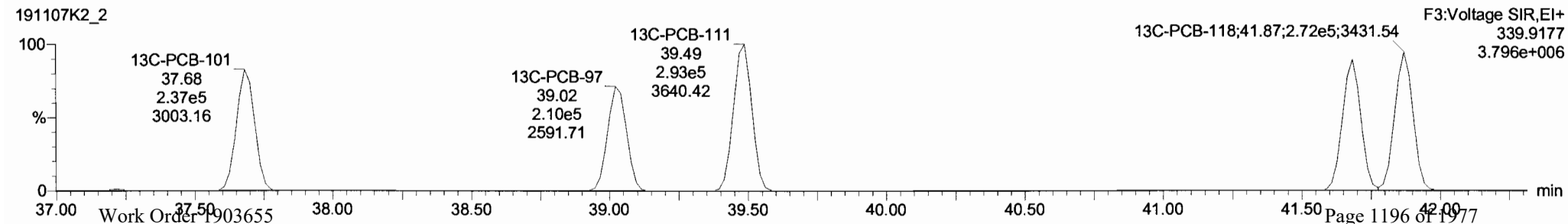
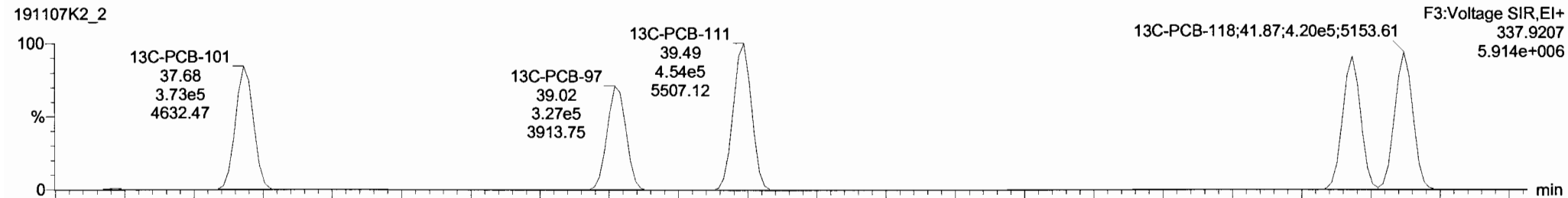
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Printed: Friday, November 08, 2019 10:55:41 Pacific Standard Time

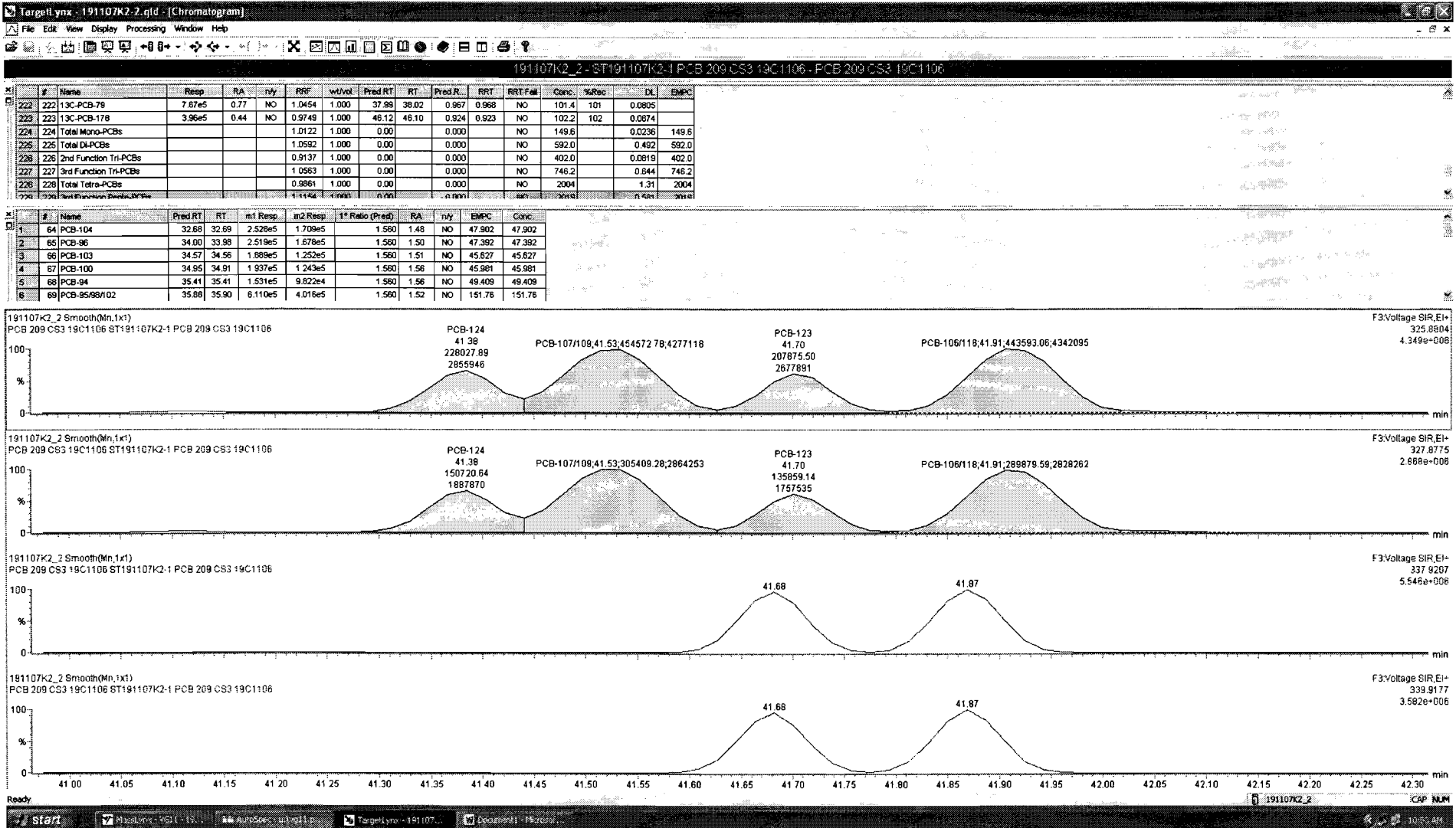
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**PCB-119**



**13C-PCB-111**



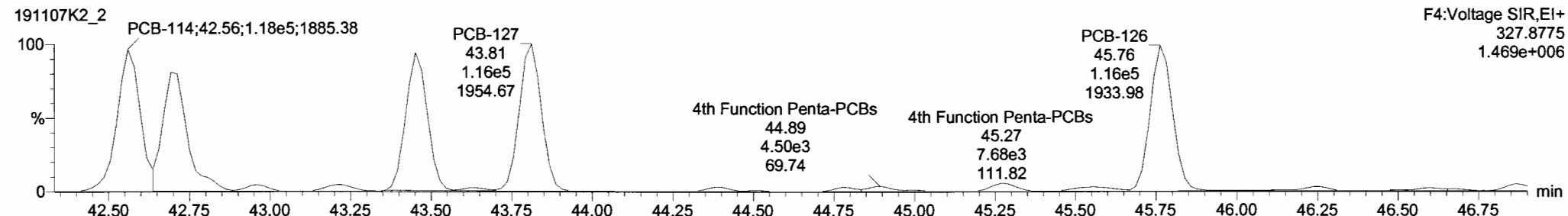
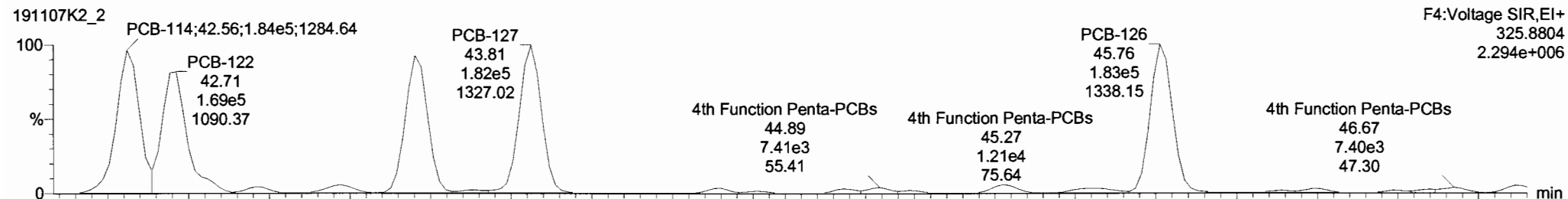


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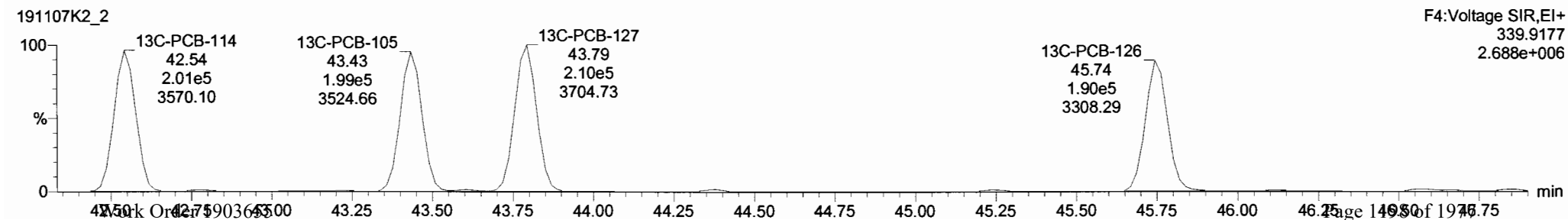
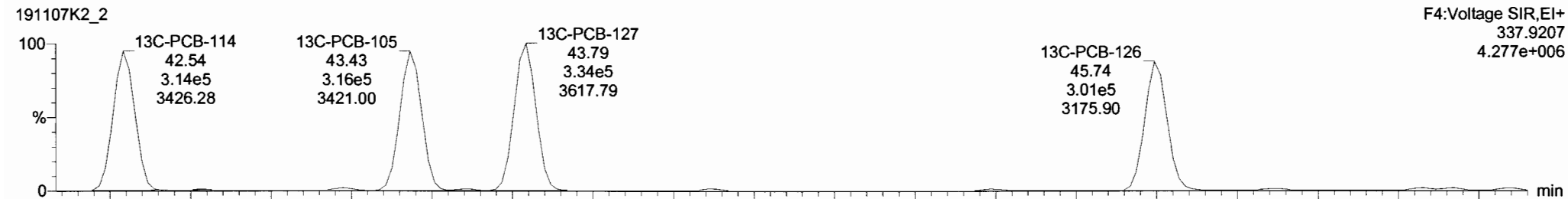
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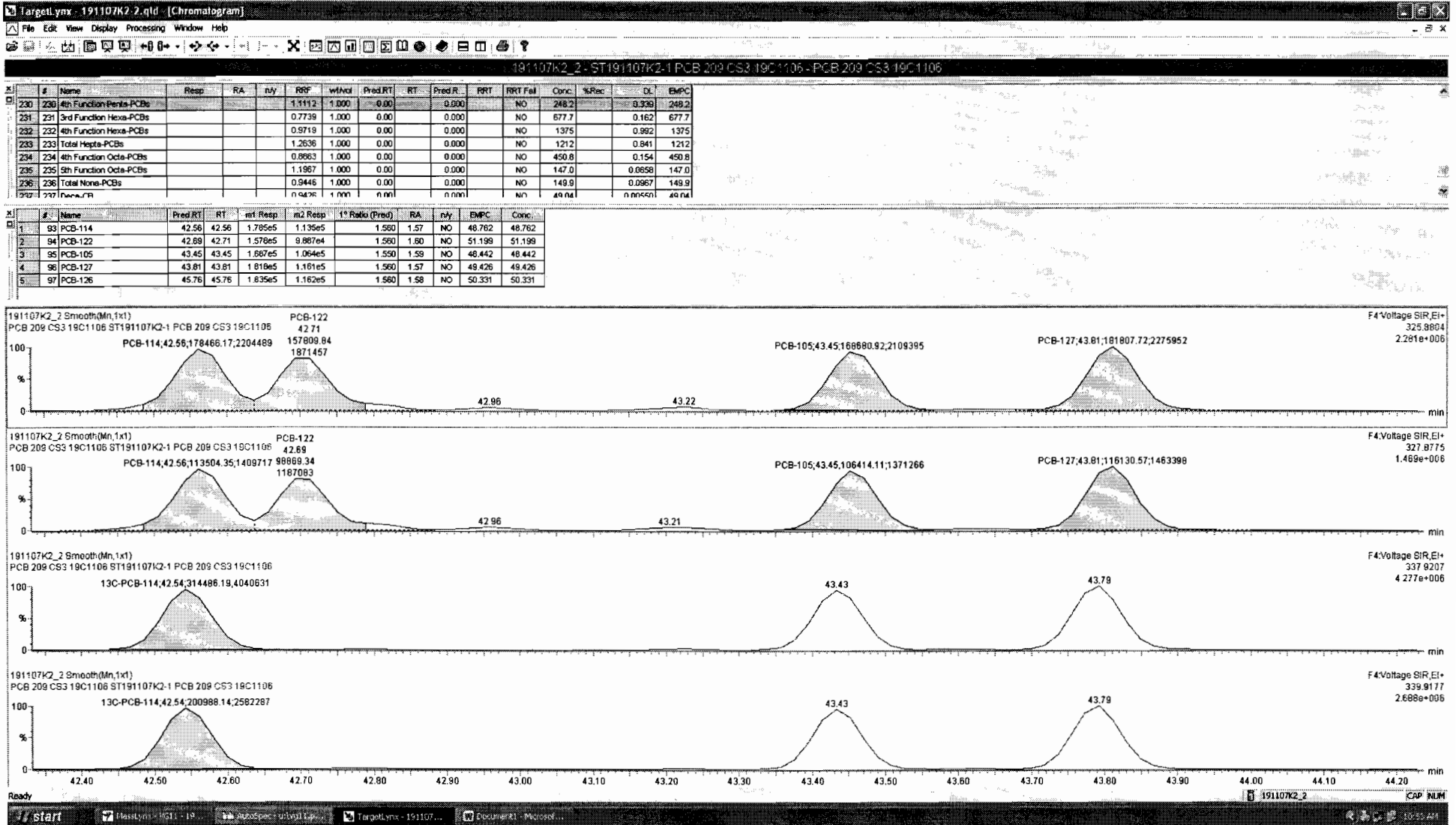
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**PCB-114**



**13C-PCB-114**





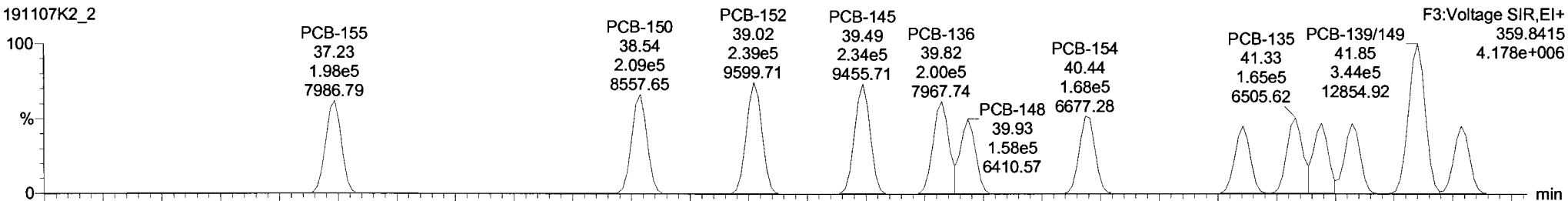
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Printed: Friday, November 08, 2019 10:55:41 Pacific Standard Time

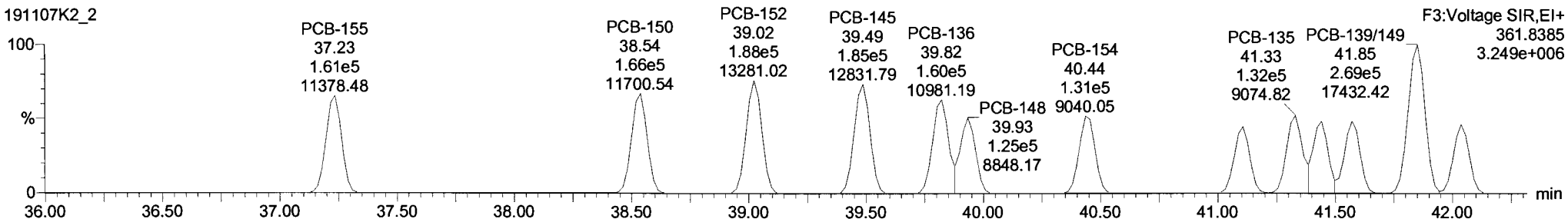
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**PCB-155**

191107K2\_2

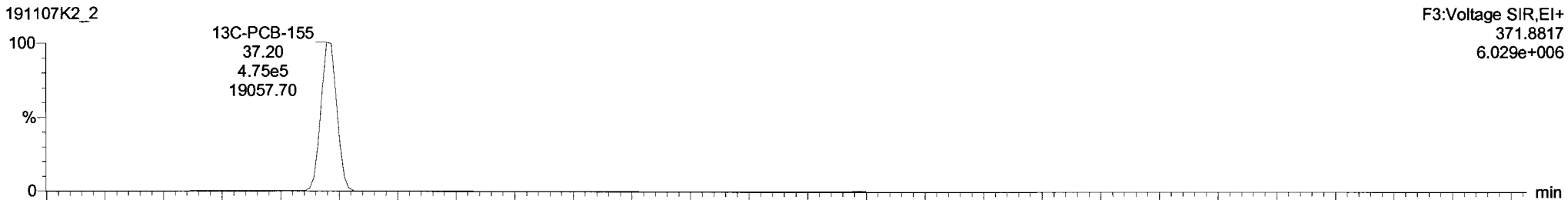


191107K2\_2

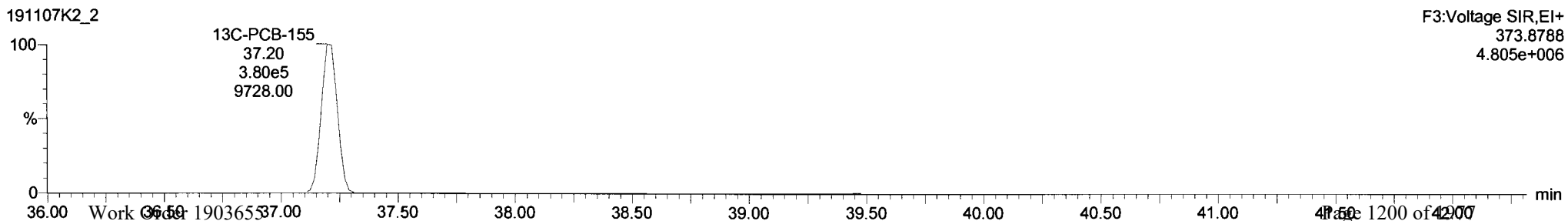


**13C-PCB-155**

191107K2\_2



191107K2\_2

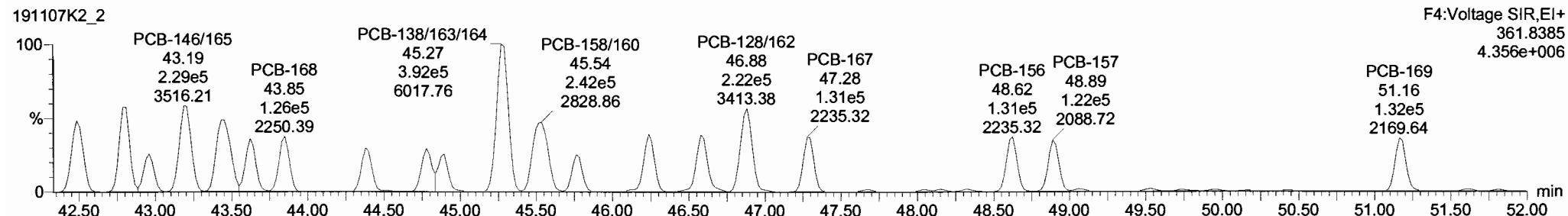
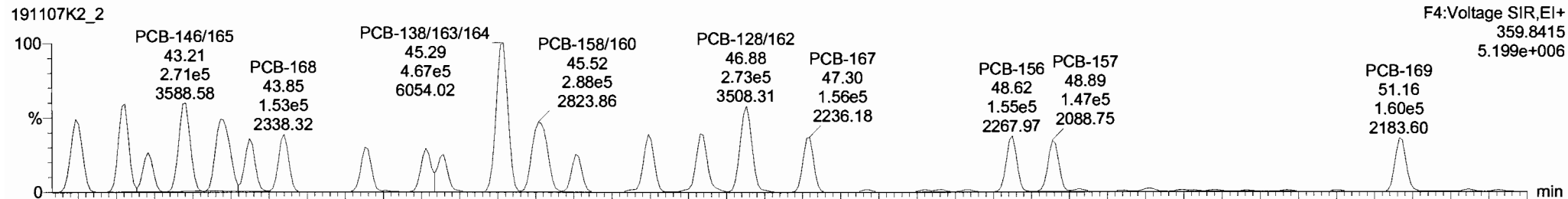


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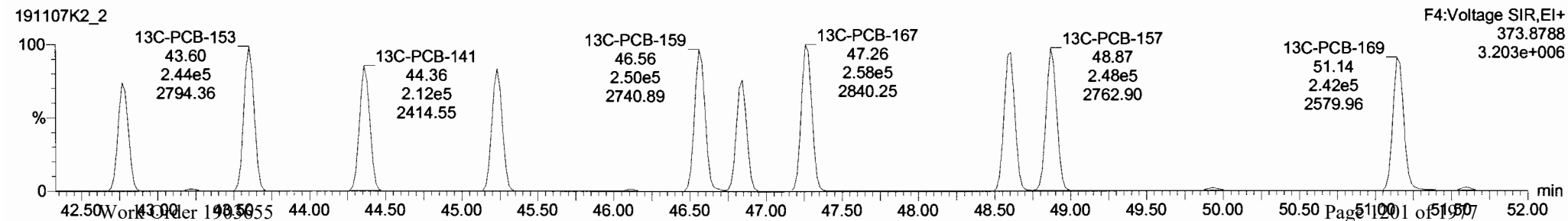
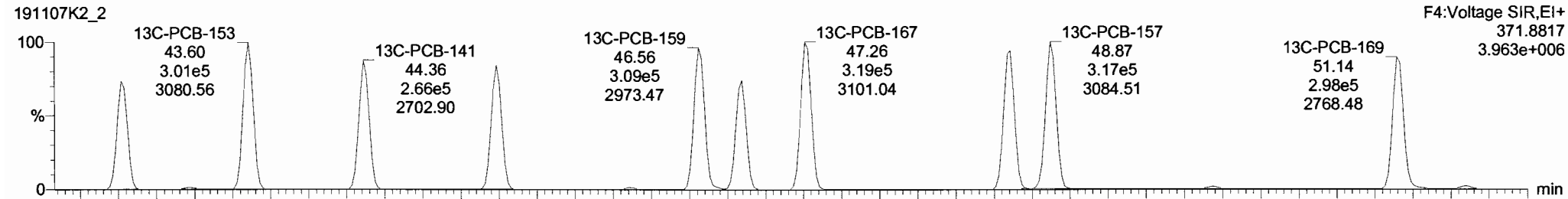
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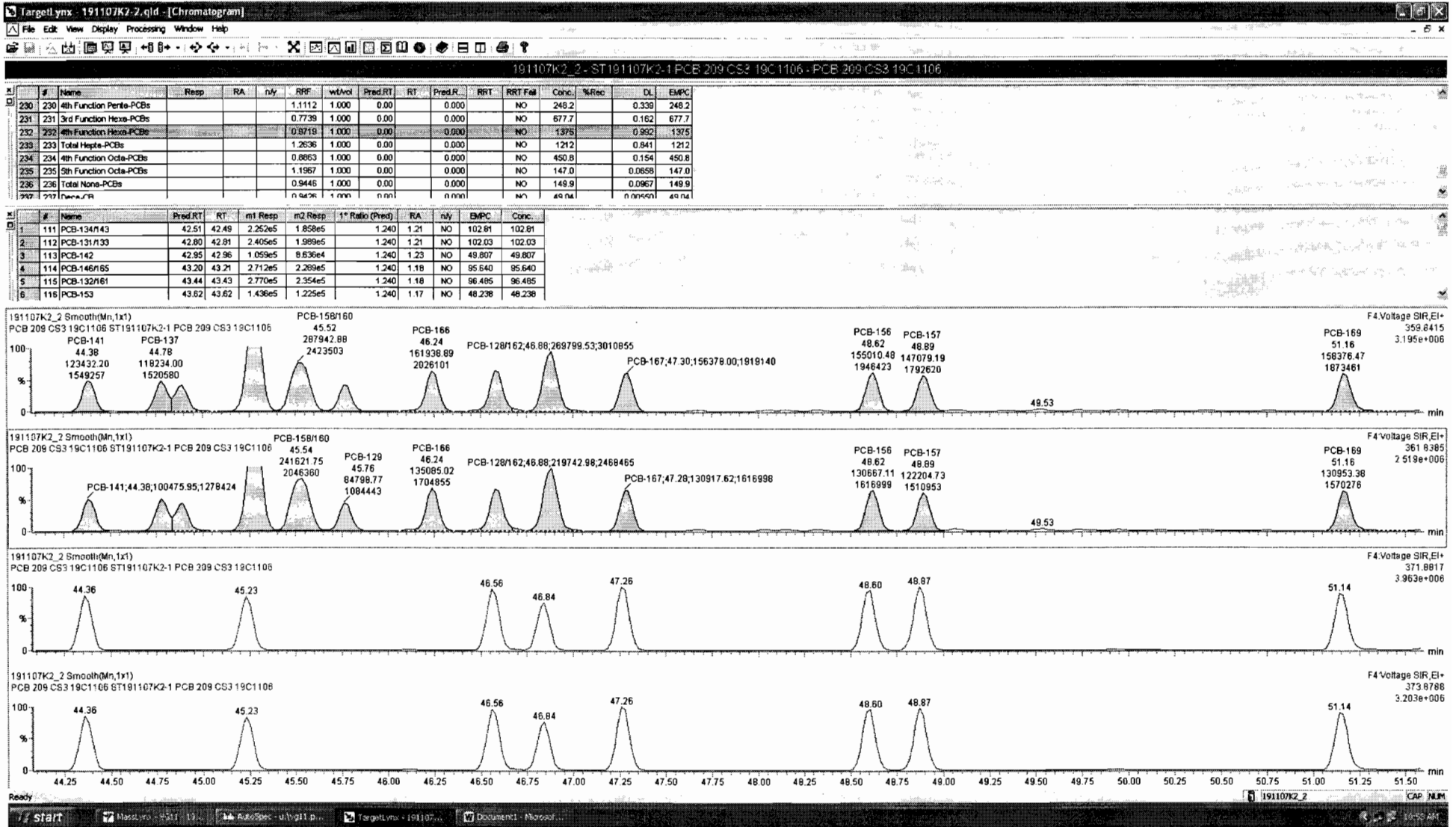
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PCB-134/143



13C-PCB-153





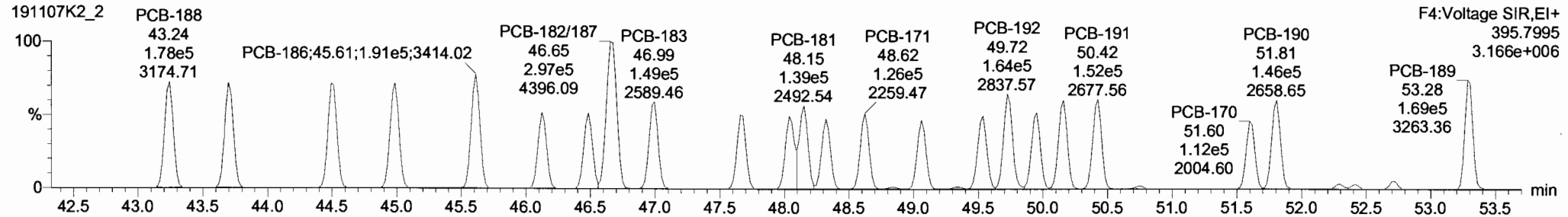
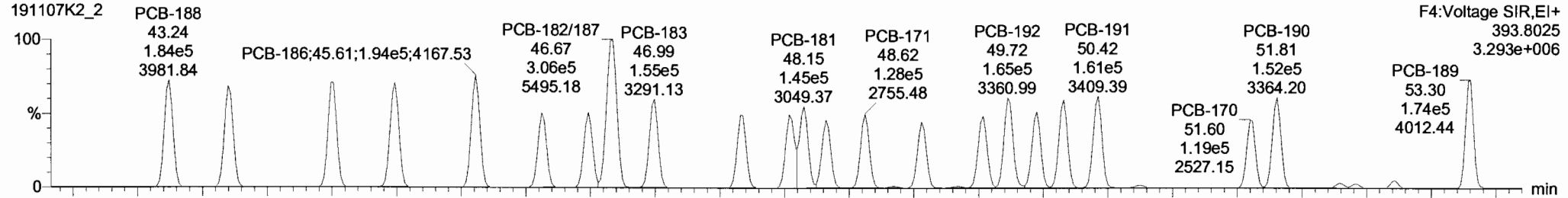


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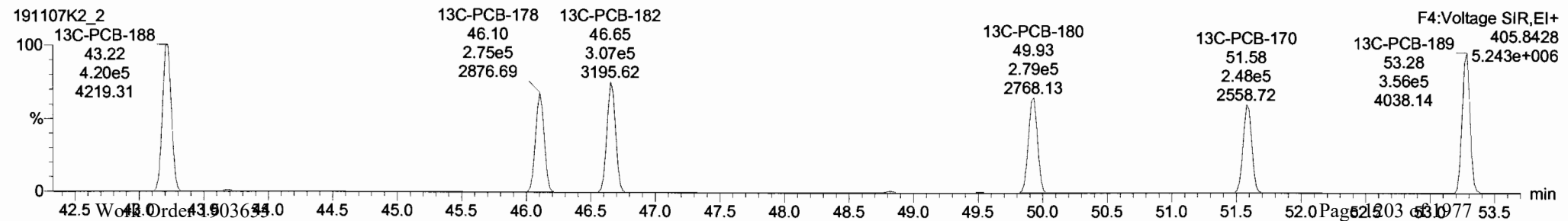
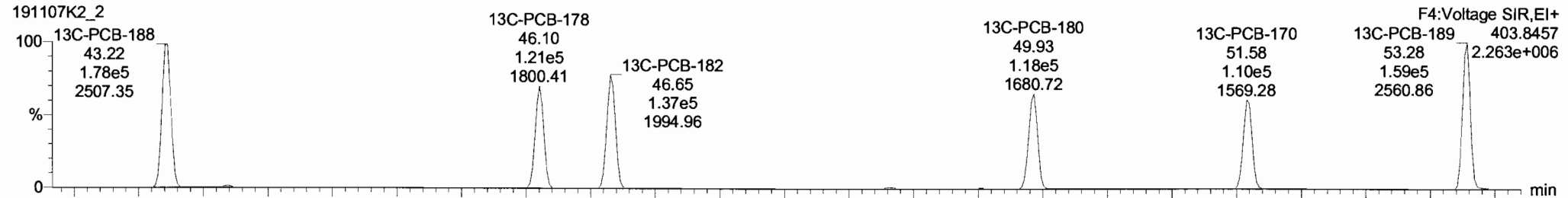
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PCB-188



13C-PCB-188



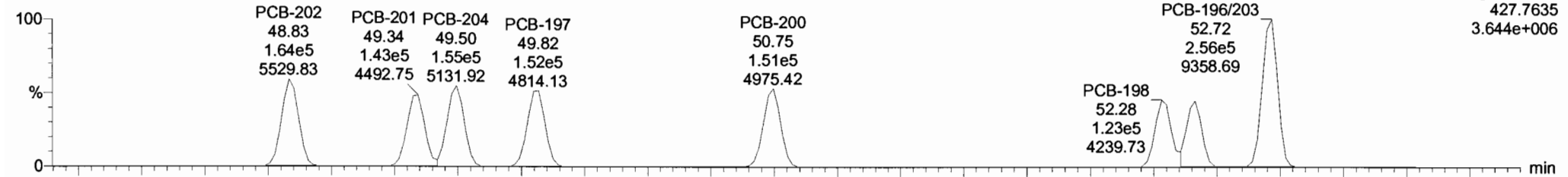
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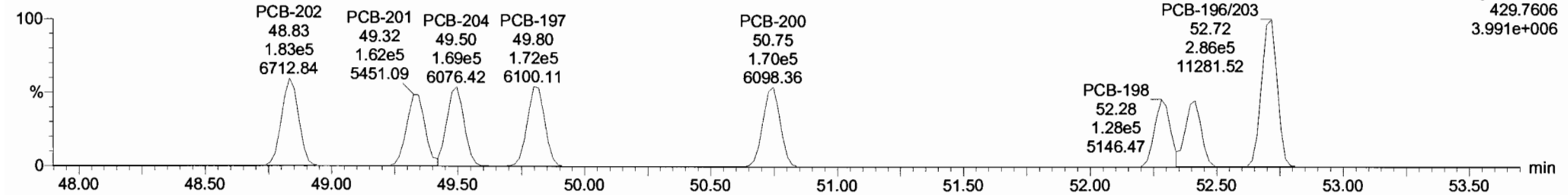
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**PCB-202**

191107K2\_2

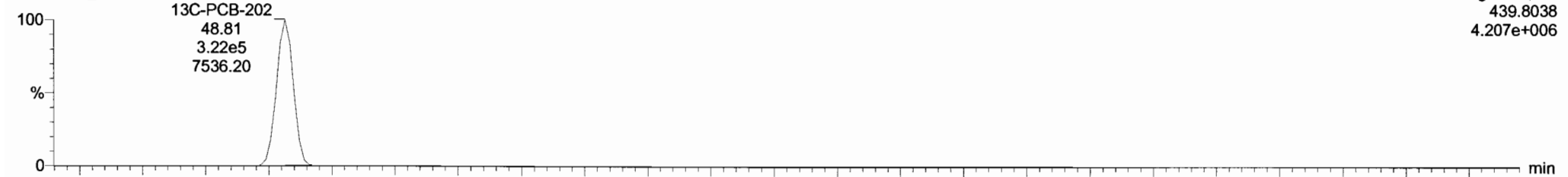


191107K2\_2

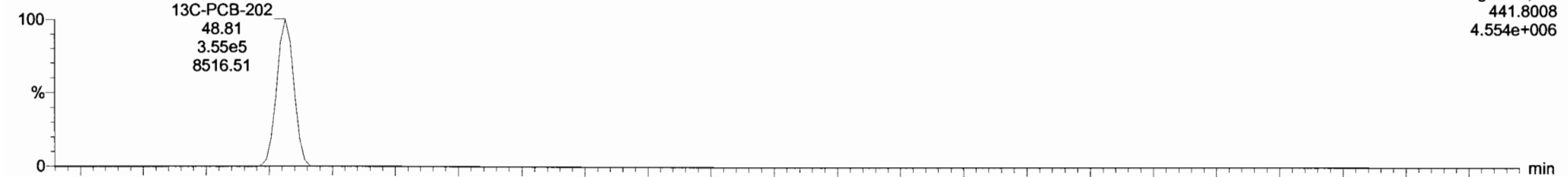


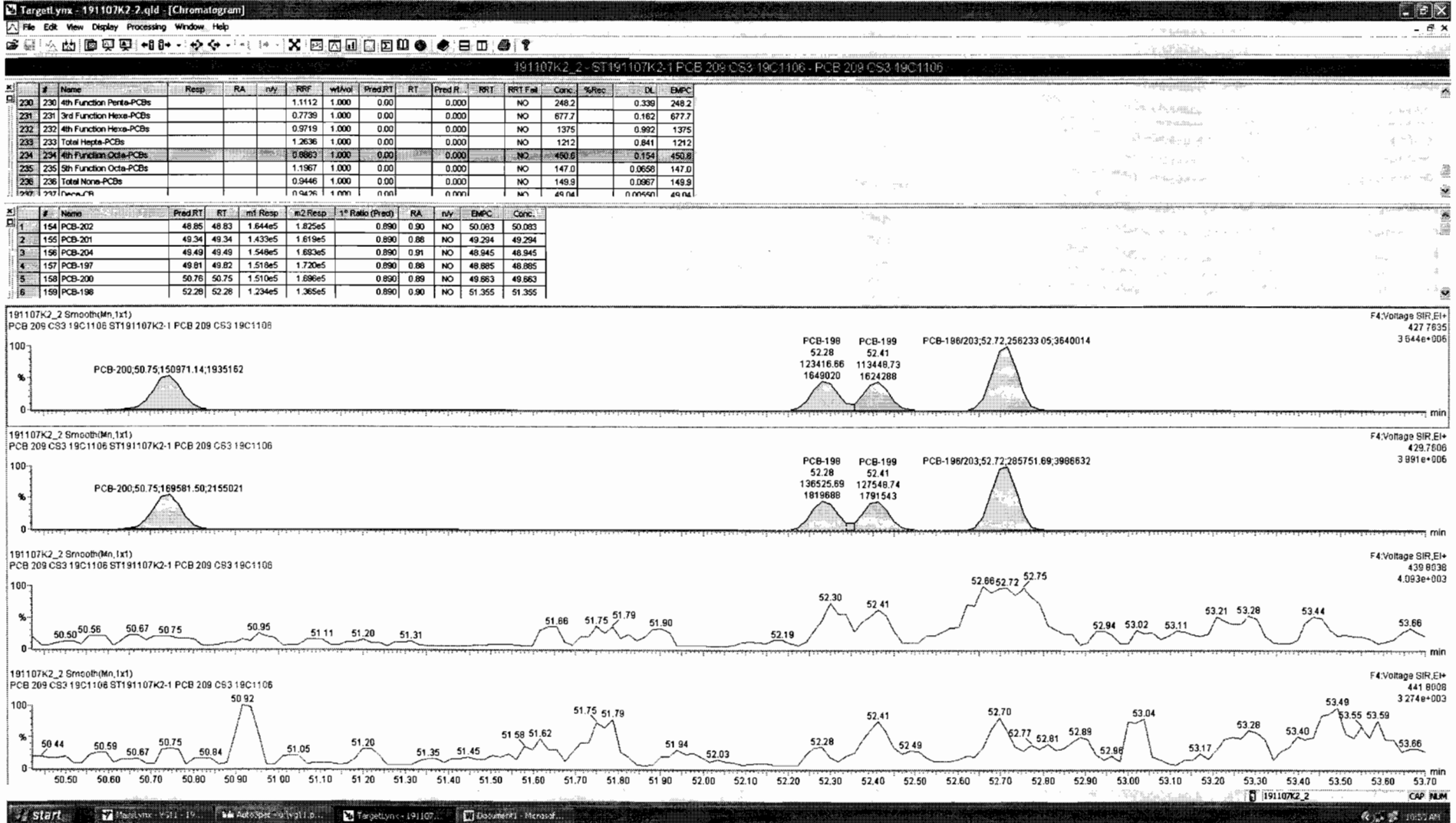
**13C-PCB-202**

191107K2\_2



191107K2\_2



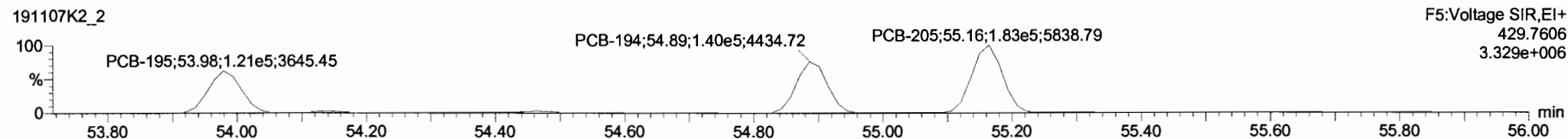
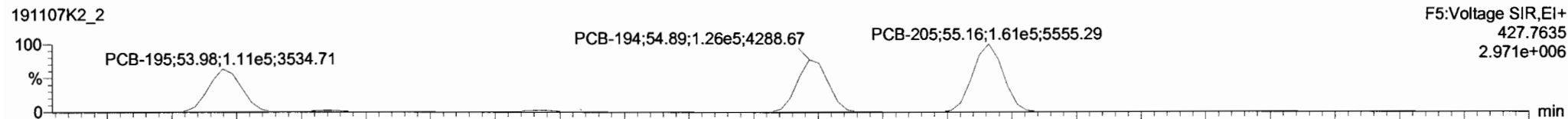


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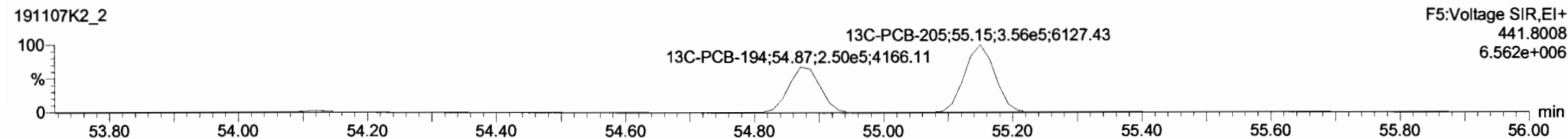
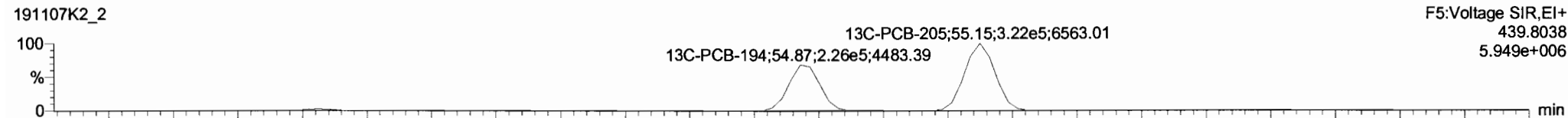
Last Altered: Friday, November 08, 2019 10:55:17 Pacific Standard Time  
Printed: Friday, November 08, 2019 10:55:41 Pacific Standard Time

Name: 191107K2\_2, Date: 08-Nov-2019, Time: 02:17:16, ID: ST191107K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

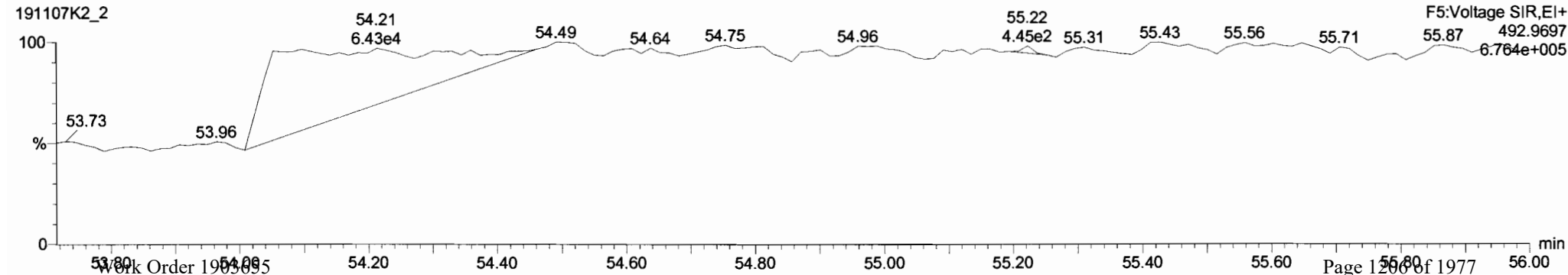
**PCB-195**



**13C-PCB-194**



**PFK5**



Dataset: Untitled

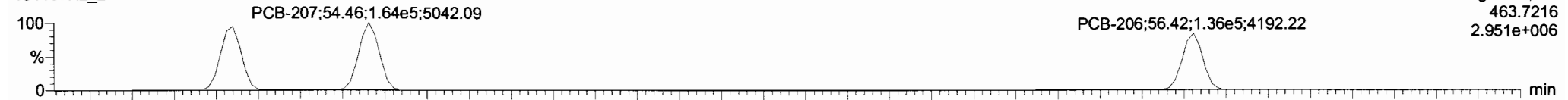
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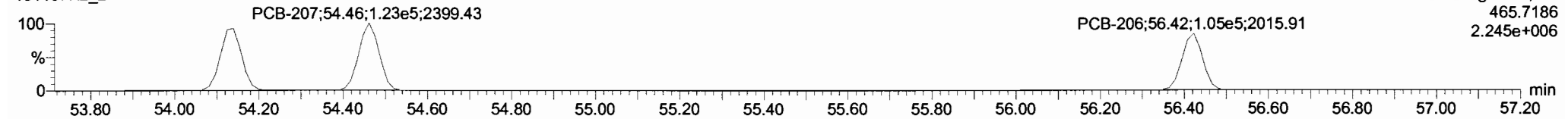
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**PCB-208**

191107K2\_2

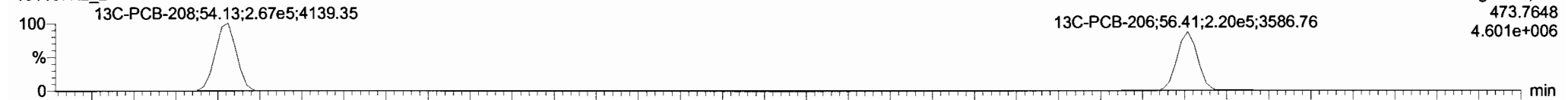


191107K2\_2

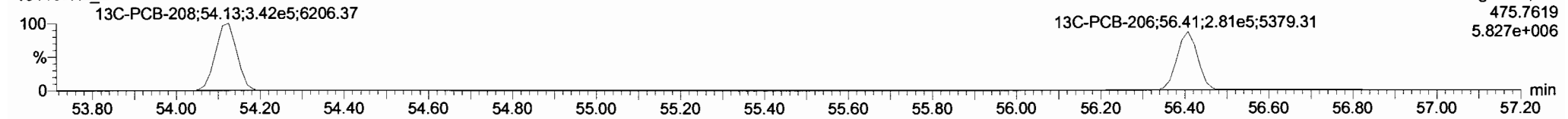


**13C-PCB-208**

191107K2\_2

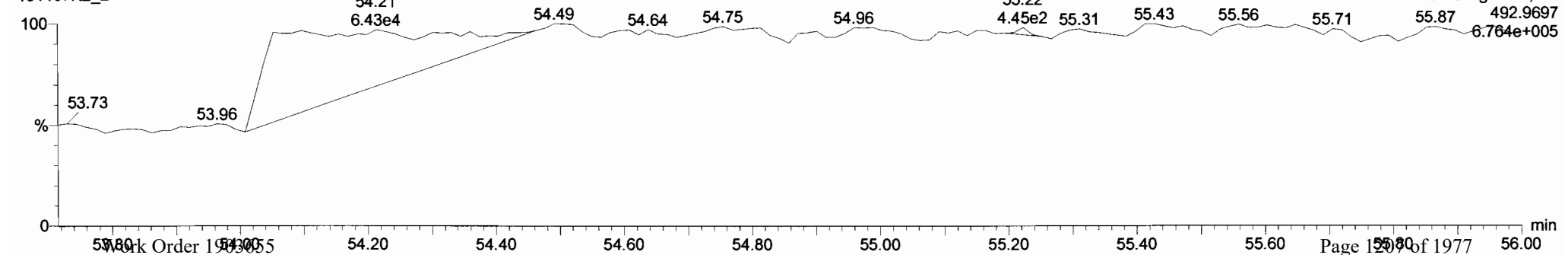


191107K2\_2



**PFK5**

191107K2\_2



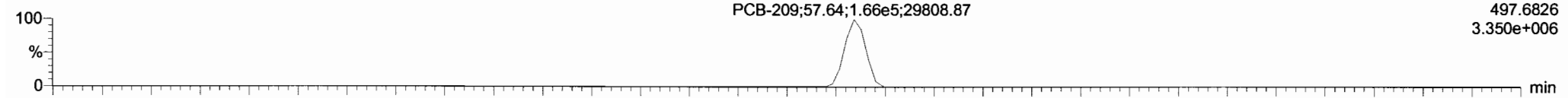
Dataset: Untitled

Last Altered: Friday, November 08, 2019 10:55:17 Pacific Standard Time  
Printed: Friday, November 08, 2019 10:55:41 Pacific Standard Time

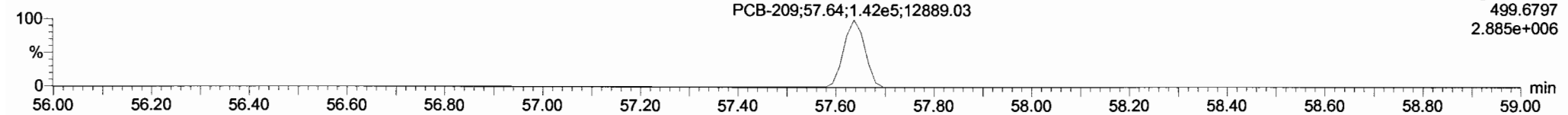
Name: 191107K2\_2, Date: 08-Nov-2019, Time: 02:17:16, ID: ST191107K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-209**

191107K2\_2

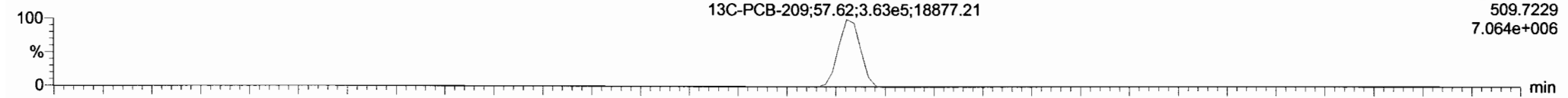


191107K2\_2

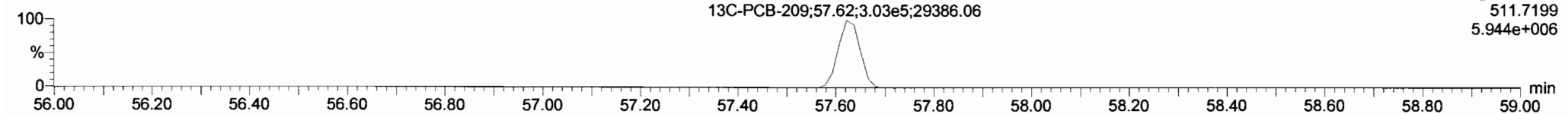


**13C-PCB-209**

191107K2\_2

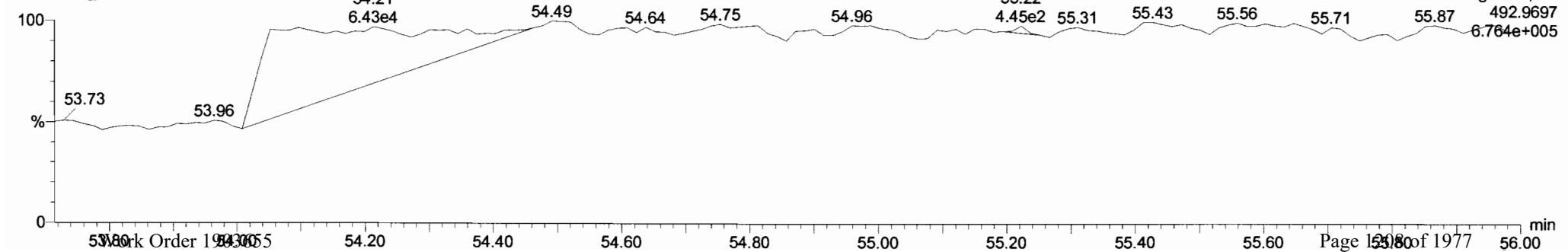


191107K2\_2



**PFK5**

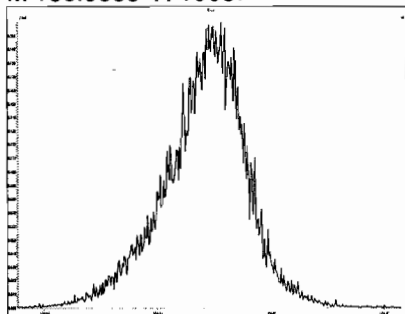
191107K2\_2



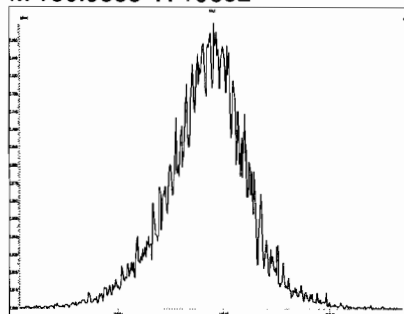
File: Experiment: PCB\_ZB1.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, November 08, 2019 10:43:18 Pacific Standard Time

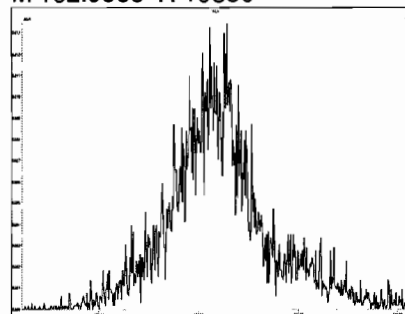
M 168.9888 R 10037



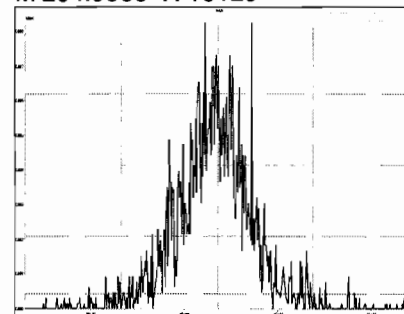
M 180.9888 R 10682



M 192.9888 R 10330



M 204.9888 R 16129



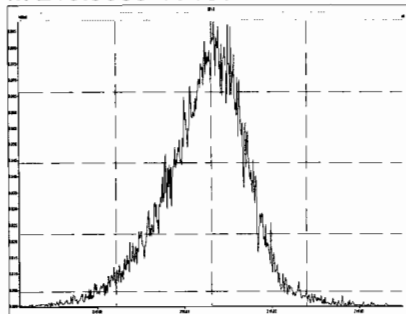
**Experiment Calibration Report**

**MassLynx 4.1 SCN815**

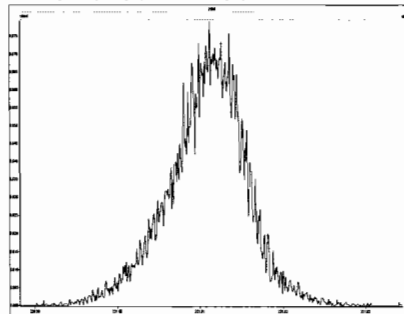
File: Experiment: PCB\_ZB1.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, November 08, 2019 10:43:56 Pacific Standard Time

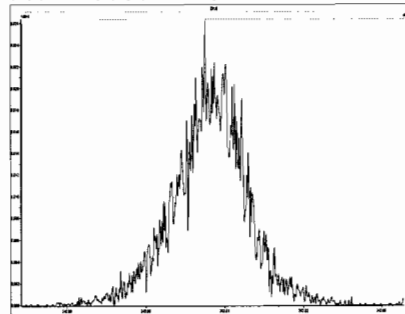
M 218.9856 R 10502



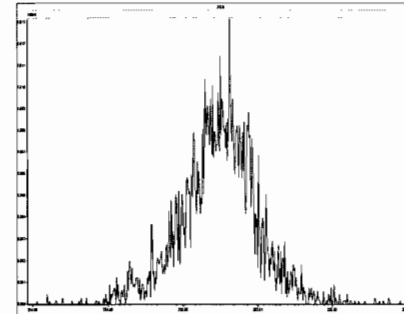
M 230.9856 R 11311



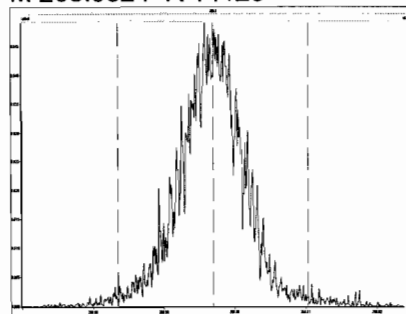
M 242.9856 R 13298



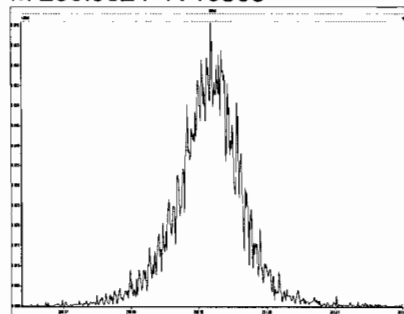
M 254.9856 R 14617



M 268.9824 R 14123



M 280.9824 R 13808

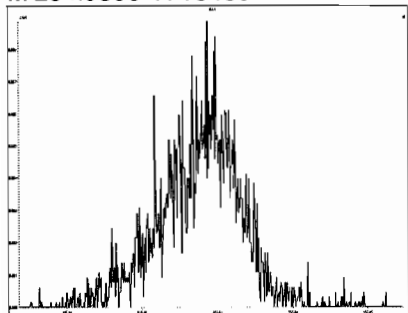




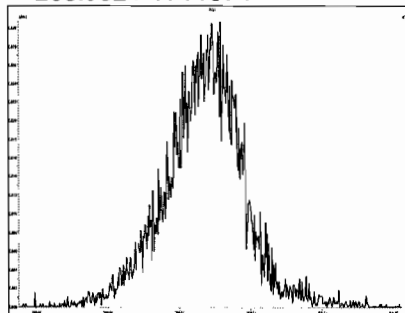
File: Experiment: PCB\_ZB1.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, November 08, 2019 10:45:05 Pacific Standard Time

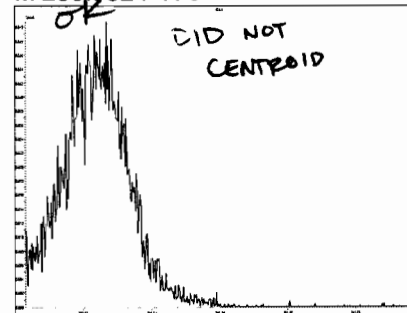
M 254.9856 R 13439



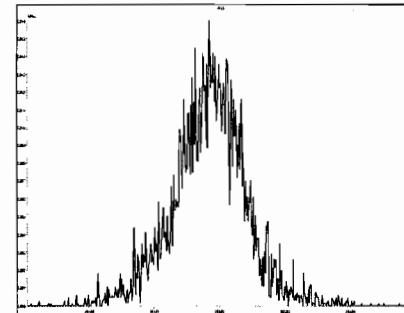
M 268.9824 R 11574



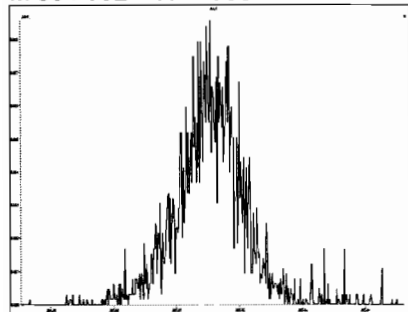
M 280.9824 R 0



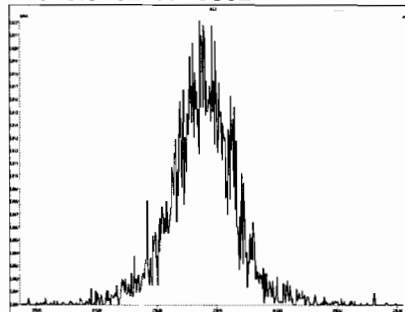
M 292.9824 R 14787



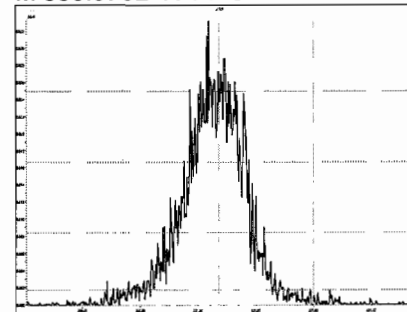
M 304.9824 R 17985



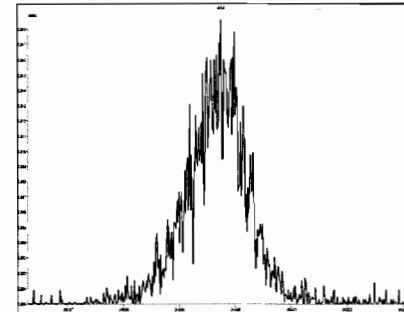
M 318.9792 R 15532



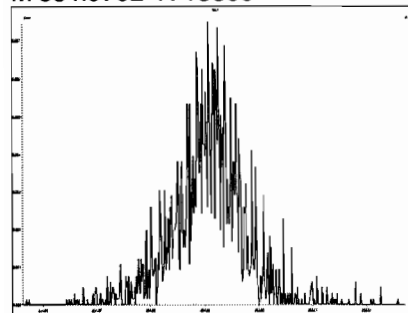
M 330.9792 R 14452



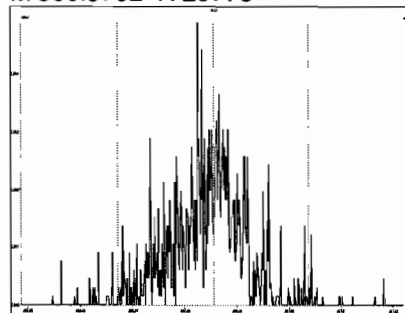
M 342.9792 R 13440



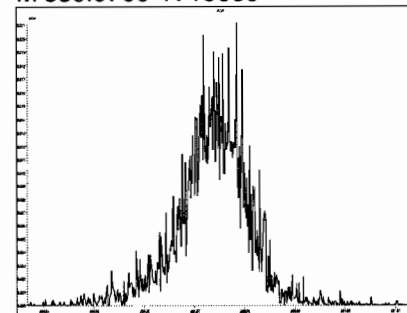
M 354.9792 R 18800



M 366.9792 R 25773



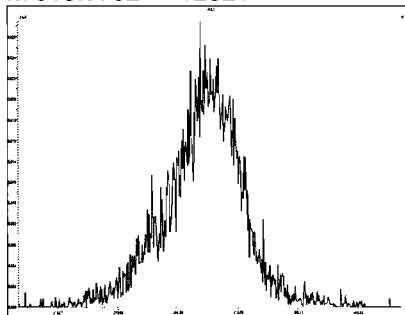
M 380.9760 R 13585



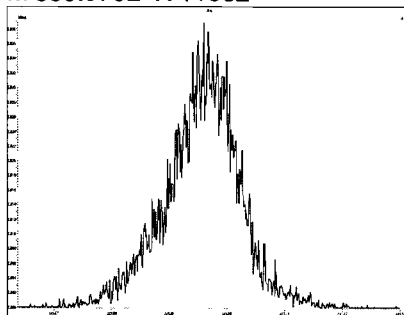
File: Experiment: PCB\_ZB1.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, November 08, 2019 10:46:09 Pacific Standard Time

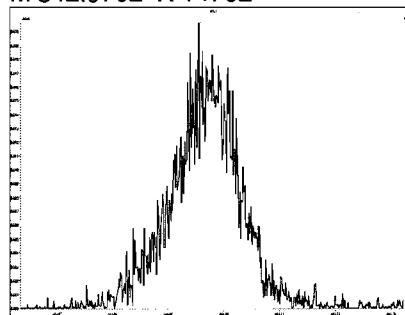
M 318.9792 R 12821



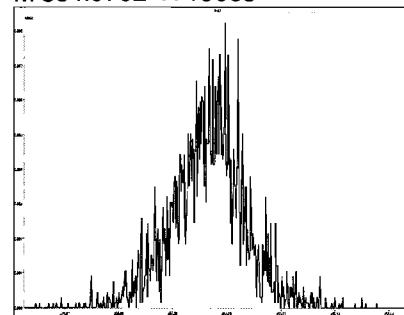
M 330.9792 R 11362



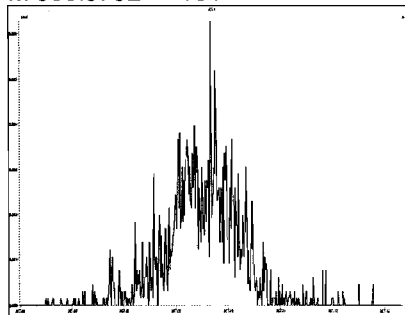
M 342.9792 R 14702



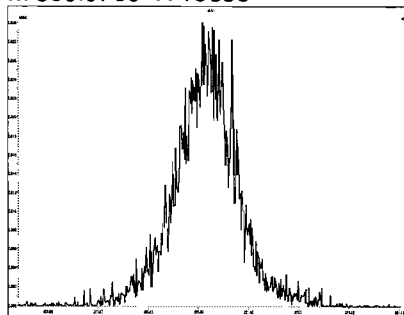
M 354.9792 R 19085



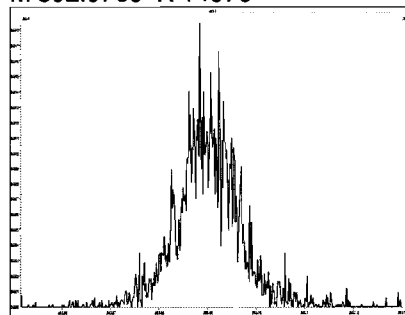
M 366.9792 R 16127



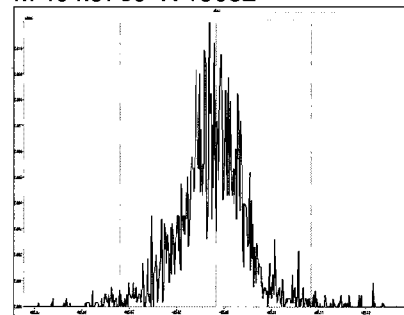
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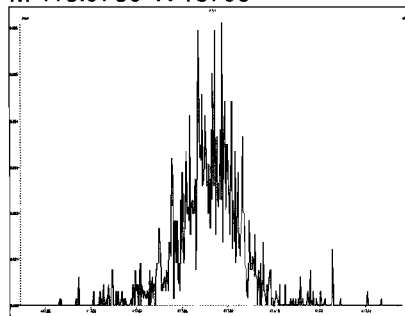
M 392.9760 R 14970



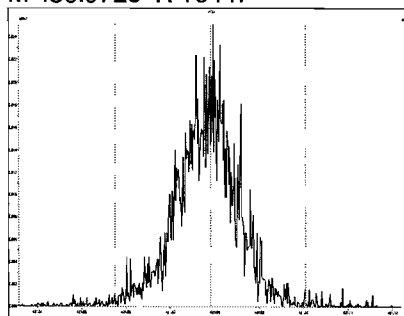
M 404.9760 R 19082



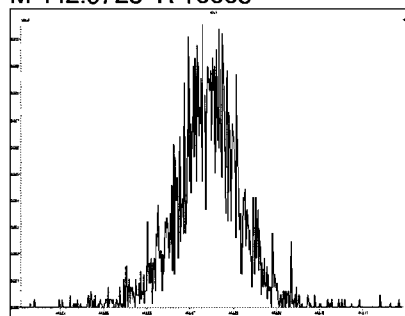
M 416.9760 R 18799



M 430.9728 R 16447



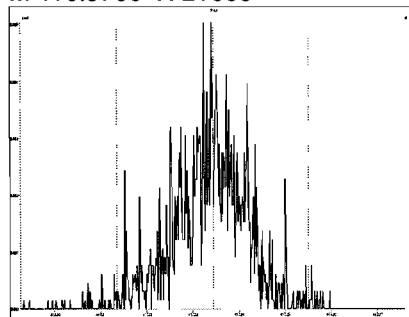
M 442.9728 R 16665



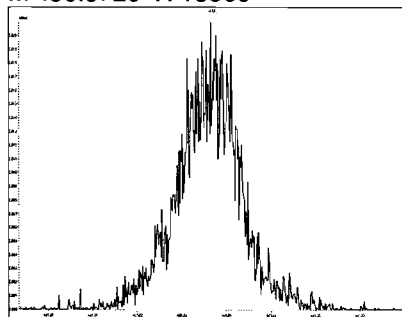
File: Experiment: PCB\_ZB1.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, November 08, 2019 10:47:04 Pacific Standard Time

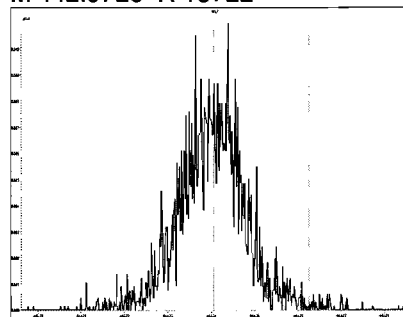
M 416.9760 R 21003



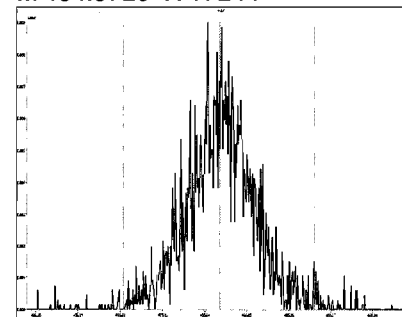
M 430.9728 R 13369



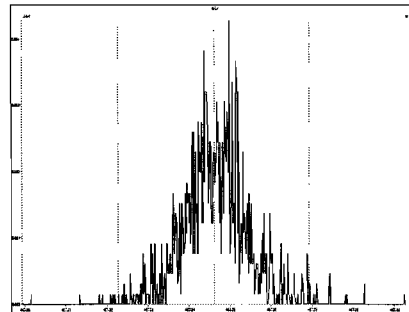
M 442.9728 R 15722



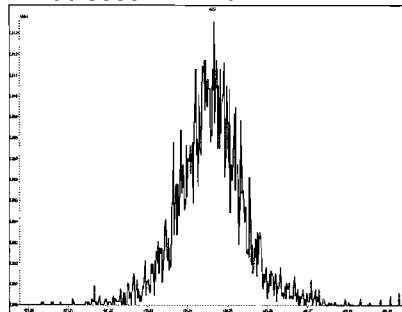
M 454.9728 R 17244



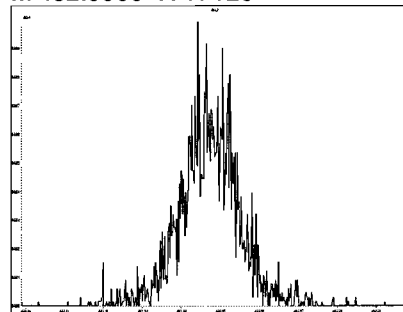
M 466.9728 R 19084



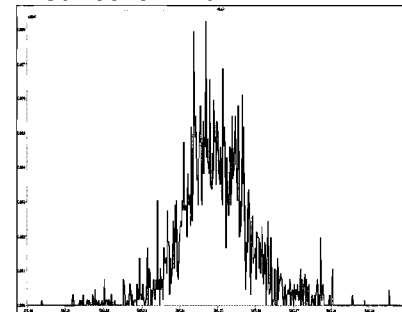
M 480.9696 R 14204



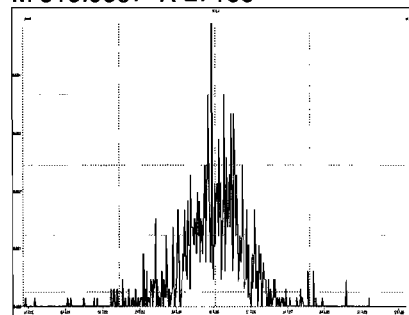
M 492.9696 R 17120



M 504.9696 R 18117



M 516.9697 R 27188



**HKMS CALIBRATION STANDARDS REVIEW CHECKLIST**

**Beg. Calibration ID:** ST191114K21

**Reviewed By:** EL 11/15/19

*Initials & Date*

**End Calibration ID:** NA

	<u>Beg.</u>	<u>End</u>
<b>Ion abundance within QC limits?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
<b>Concentrations within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>TCDD/TCDF Valleys &lt;25%</b>	<input type="checkbox"/> NA	<input type="checkbox"/>
<b>First and last eluters present?</b>	<input type="checkbox"/> NA	<input type="checkbox"/>
<b>Retention Times within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Verification Std. named correctly?</b> (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Forms signed and dated?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Correct ICAL referenced?</b>	<u>HC</u>	<u>↓</u>
<b><u>Run Log:</u></b>		
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
- Samples within 12 hour clock?	<u>(Y)</u>	N
- Bottle position verified?	<u>HC</u>	

**Mass resolution ≥**

5k    6-8K    8K    10K  
 1614   1699   429   1613/1668/8280

**Intergrated peaks display correctly?**

**GC Break <20%**

NA

**8280 CS1 End Standard:**

**- Ratios within limits, S/N <2.5:1, CS1 within 12 hours**

**Comments:**

Ⓟ End res check had PFK drain  
 there were some masses that had  
 column bleed and others did not  
 centroid

	<u>Beg.</u>	<u>End</u>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Ⓟ
	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
	<input type="checkbox"/> NA	<input type="checkbox"/> NA

Dataset: U:\VG11.PRO\Results\191114K2\191114K2-1.qld

Last Altered: Friday, November 15, 2019 07:32:05 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:49:54 Pacific Standard Time

HL 11-15-19 EL 11-15-19

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-14-19.mdb 14 Nov 2019 15:03:40  
Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	6.87e5	3.09	NO	1.02	1.000	15.66	15.67	1.001	1.002	NO	58.05	116	0.0139	58.05
2	2 PCB-2	6.93e5	3.12	NO	1.01	1.000	18.10	18.10	0.988	0.988	NO	58.06	116	0.0145	58.06
3	3 PCB-3	6.79e5	3.02	NO	1.01	1.000	18.33	18.33	1.001	1.001	NO	57.04	114	0.0145	57.04
4	4 PCB-4/10	9.95e5	1.57	NO	1.28	1.000	19.75	19.75	1.004	1.004	NO	107.0	107	0.0660	107.0
5	5 PCB-7/9	1.25e6	1.58	NO	0.976	1.000	21.57	21.57	1.003	1.003	NO	104.3	104	0.0519	104.3
6	6 PCB-6	6.82e5	1.59	NO	1.02	1.000	22.22	22.23	1.033	1.034	NO	54.66	109	0.0498	54.66
7	7 PCB-5/8	1.38e6	1.60	NO	1.01	1.000	22.63	22.63	1.052	1.052	NO	111.3	111	0.0501	111.3
8	8 PCB-14	7.08e5	1.60	NO	1.03	1.000	23.78	23.78	0.952	0.952	NO	53.75	108	0.0488	53.75
9	9 PCB-11	7.46e5	1.60	NO	1.10	1.000	25.00	25.01	1.001	1.001	NO	53.41	107	0.0460	53.41
10	10 PCB-12/13	1.36e6	1.56	NO	1.04	1.000	25.44	25.38	1.018	1.016	NO	103.0	103	0.0486	103.0
11	11 PCB-15	6.66e5	1.58	NO	1.03	1.000	25.74	25.73	1.030	1.030	NO	50.83	102	0.0490	50.83
12	12 PCB-19	3.41e5	0.96	NO	0.934	1.000	23.96	23.95	1.001	1.001	NO	55.13	110	0.0314	55.13
13	13 PCB-30	5.47e5	0.96	NO	1.48	1.000	24.89	24.87	1.040	1.039	NO	55.75	112	0.0198	55.75
14	14 PCB-18	3.48e5	0.95	NO	0.693	1.000	25.64	25.65	0.951	0.952	NO	57.15	114	0.0332	57.15
15	15 PCB-17	3.22e5	0.95	NO	0.667	1.000	25.82	25.83	0.958	0.959	NO	55.01	110	0.0345	55.01
16	16 PCB-24/27	9.08e5	1.00	NO	0.915	1.000	26.44	26.42	0.981	0.980	NO	112.9	113	0.0251	112.9
17	17 PCB-16/32	7.46e5	0.99	NO	0.792	1.000	26.97	26.95	1.001	1.000	NO	107.0	107	0.0290	107.0
18	18 PCB-34	4.94e5	1.07	NO	0.987	1.000	27.76	27.78	0.959	0.960	NO	44.06	88.1	0.0332	44.06
19	19 PCB-23	5.28e5	1.05	NO	0.974	1.000	27.86	27.88	0.962	0.963	NO	47.75	95.5	0.0337	47.75
20	20 PCB-29	5.06e5	1.05	NO	0.953	1.000	28.10	28.14	0.970	0.972	NO	46.78	93.6	0.0344	46.78
21	21 PCB-26	5.55e5	1.06	NO	1.00	1.000	28.35	28.34	0.979	0.979	NO	48.82	97.6	0.0328	48.81
22	22 PCB-25	5.48e5	1.07	NO	0.978	1.000	28.49	28.51	0.984	0.985	NO	49.36	98.7	0.0336	49.36
23	23 PCB-31	6.43e5	1.08	NO	1.12	1.000	28.89	28.88	0.998	0.997	NO	50.47	101	0.0292	50.47
24	24 PCB-28	5.90e5	1.04	NO	1.11	1.000	28.97	28.99	1.001	1.001	NO	47.00	94.0	0.0297	47.00
25	25 PCB-20/21/33	1.75e6	1.05	NO	1.00	1.000	29.62	29.60	1.023	1.023	NO	154.0	103	0.0327	154.0
26	26 PCB-22	6.30e5	1.06	NO	1.03	1.000	30.08	30.07	1.039	1.038	NO	53.72	107	0.0318	53.72
27	27 PCB-36	6.21e5	1.05	NO	1.18	1.000	30.72	30.72	0.932	0.932	NO	57.35	115	0.0337	57.35
28	28 PCB-39	5.60e5	1.05	NO	1.08	1.000	31.21	31.20	0.947	0.946	NO	56.15	112	0.0366	56.15
29	29 PCB-38	5.88e5	1.05	NO	1.13	1.000	32.01	31.99	0.971	0.970	NO	56.62	113	0.0352	56.62
30	30 PCB-35	5.60e5	1.05	NO	1.13	1.000	32.53	32.54	0.987	0.987	NO	53.77	108	0.0350	53.77
31	31 PCB-37	5.42e5	1.07	NO	1.11	1.000	33.01	32.99	1.001	1.001	NO	53.22	106	0.0359	53.22
32	32 PCB-54	4.06e5	0.72	NO	0.996	1.000	27.82	27.82	1.001	1.001	NO	54.48	109	0.0319	54.48

75-125%

Dataset: U:\VG11.PRO\Results\191114K2\191114K2-1.qld

Last Altered: Friday, November 15, 2019 07:32:05 Pacific Standard Time

Printed: Friday, November 15, 2019 07:49:54 Pacific Standard Time

Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50	3.33e5	0.73	NO	0.781	1.000	29.06	29.03	1.045	1.044	NO	56.88	114	0.0407	56.88
34	34 PCB-53	3.14e5	0.73	NO	0.955	1.000	29.72	29.70	0.944	0.944	NO	53.13	106	0.0421	53.13
35	35 PCB-51	3.45e5	0.74	NO	1.02	1.000	30.04	30.05	0.955	0.955	NO	54.50	109	0.0393	54.49
36	36 PCB-45	2.68e5	0.73	NO	0.808	1.000	30.48	30.50	0.969	0.969	NO	53.68	107	0.0497	53.68
37	37 PCB-46	2.57e5	0.72	NO	0.754	1.000	30.99	31.00	0.985	0.985	NO	55.15	110	0.0533	55.15
38	38 PCB-52/69	7.18e5	0.73	NO	1.09	1.000	31.50	31.50	1.001	1.001	NO	106.4	106	0.0368	106.4
39	39 PCB-73	4.47e5	0.73	NO	1.29	1.000	31.63	31.61	1.005	1.005	NO	56.04	112	0.0312	56.04
40	40 PCB-43/49	6.18e5	0.72	NO	0.940	1.000	31.79	31.78	1.010	1.010	NO	106.3	106	0.0428	106.3
41	41 PCB-47	2.89e5	0.72	NO	0.869	1.000	32.01	32.01	1.001	1.001	NO	51.74	103	0.0444	51.74
42	42 PCB-48/75	7.31e5	0.73	NO	1.02	1.000	32.12	32.12	1.004	1.004	NO	111.1	111	0.0376	111.1
43	43 PCB-65	4.18e5	0.74	NO	1.11	1.000	32.39	32.40	1.013	1.013	NO	58.68	117	0.0348	58.68
44	44 PCB-62	3.47e5	0.74	NO	1.07	1.000	32.50	32.51	1.016	1.016	NO	50.72	101	0.0362	50.72
45	45 PCB-44	2.48e5	0.73	NO	0.761	1.000	32.84	32.83	1.027	1.026	NO	50.67	101	0.0506	50.67
46	46 PCB-42/59	6.48e5	0.72	NO	0.960	1.000	33.06	33.05	1.033	1.033	NO	105.2	105	0.0401	105.2
47	47 PCB-41/64/71/72	1.41e6	0.73	NO	1.08	1.000	33.68	33.66	1.053	1.052	NO	202.6	101	0.0356	202.6
48	48 PCB-68	3.69e5	0.72	NO	1.11	1.000	33.94	33.94	1.061	1.061	NO	51.89	104	0.0348	51.89
49	49 PCB-40	1.79e5	0.72	NO	0.577	1.000	34.19	34.15	1.069	1.067	NO	48.25	96.5	0.0668	48.25
50	50 PCB-57	4.08e5	0.72	NO	1.05	1.000	34.50	34.52	0.969	0.969	NO	50.37	101	0.0300	50.37
51	51 PCB-67	4.09e5	0.72	NO	0.993	1.000	34.82	34.85	0.978	0.979	NO	53.29	107	0.0317	53.29
52	52 PCB-58	4.16e5	0.73	NO	1.11	1.000	34.95	34.97	0.981	0.982	NO	48.29	96.6	0.0283	48.29
53	53 PCB-63	3.99e5	0.74	NO	0.962	1.000	35.11	35.13	0.986	0.986	NO	53.66	107	0.0327	53.66
54	54 PCB-74	4.38e5	0.73	NO	1.07	1.000	35.42	35.41	0.994	0.994	NO	53.13	106	0.0295	53.13
55	55 PCB-61/70	8.20e5	0.73	NO	0.986	1.000	35.63	35.56	1.000	0.998	NO	107.5	107	0.0319	107.5
56	56 PCB-76/66	8.83e5	0.72	NO	1.07	1.000	35.79	35.80	1.005	1.005	NO	107.0	107	0.0295	107.0
57	57 PCB-80	4.63e5	0.75	NO	1.08	1.000	36.08	36.08	1.001	1.000	NO	53.04	106	0.0281	53.04
58	58 PCB-55	4.63e5	0.71	NO	1.07	1.000	36.41	36.40	1.010	1.009	NO	53.91	108	0.0286	53.91
59	59 PCB-56/60	8.15e5	0.73	NO	0.934	1.000	36.90	36.92	1.023	1.024	NO	108.4	108	0.0327	108.4
60	60 PCB-79	4.41e5	0.72	NO	1.04	1.000	38.03	38.02	1.054	1.054	NO	52.51	105	0.0292	52.51
61	61 PCB-78	4.12e5	0.72	NO	1.03	1.000	38.74	38.74	0.987	0.987	NO	56.19	112	0.0340	56.19
62	62 PCB-81	3.54e5	0.73	NO	0.933	1.000	39.28	39.28	1.000	1.000	NO	53.47	107	0.0376	53.47
63	63 PCB-77	3.66e5	0.72	NO	1.03	1.000	39.90	39.90	1.000	1.000	NO	53.13	106	0.0364	53.13
64	64 PCB-104	2.99e5	1.53	NO	0.995	1.000	32.68	32.68	1.001	1.001	NO	52.78	106	0.0458	52.78
65	65 PCB-96	2.85e5	1.50	NO	0.996	1.000	34.00	33.98	1.041	1.041	NO	50.32	101	0.0457	50.32
66	66 PCB-103	2.27e5	1.50	NO	0.774	1.000	34.57	34.54	1.059	1.058	NO	51.62	103	0.0588	51.62
67	67 PCB-100	2.41e5	1.52	NO	0.778	1.000	34.95	34.91	1.070	1.069	NO	54.57	109	0.0585	54.57
68	68 PCB-94	1.90e5	1.58	NO	0.773	1.000	35.41	35.39	0.985	0.985	NO	52.91	106	0.0717	52.91

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Dataset: U:\VG11.PRO\Results\191114K2\191114K2-1.qld

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Printed: Friday, November 15, 2019 07:49:54 Pacific Standard Time

Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102	7.67e5	1.52	NO	1.01	1.000	35.88	35.88	0.999	0.998	NO	162.7	108	0.0547	162.7
70	70 PCB-93	2.08e5	1.53	NO	0.841	1.000	36.01	36.03	1.002	1.003	NO	53.21	106	0.0660	53.21
71	71 PCB-88/91	4.37e5	1.51	NO	0.890	1.000	36.36	36.36	1.012	1.012	NO	105.7	106	0.0624	105.7
72	72 PCB-121	3.71e5	1.52	NO	1.39	1.000	36.48	36.45	1.015	1.015	NO	57.63	115	0.0400	57.63
73	73 PCB-84/92	4.24e5	1.49	NO	0.879	1.000	37.31	37.31	0.990	0.990	NO	109.3	109	0.0657	109.3
74	74 PCB-89	2.29e5	1.55	NO	0.959	1.000	37.49	37.49	0.995	0.995	NO	54.00	108	0.0602	54.00
75	75 PCB-90/101	4.58e5	1.53	NO	0.944	1.000	37.70	37.68	1.000	1.000	NO	109.7	110	0.0611	109.7
76	76 PCB-113	3.38e5	1.51	NO	1.23	1.000	37.95	37.94	1.007	1.007	NO	62.14	124	0.0469	62.14
77	77 PCB-99	2.41e5	1.52	NO	1.12	1.000	38.05	38.03	1.010	1.009	NO	48.80	97.6	0.0516	48.80
78	78 PCB-119	3.12e5	1.54	NO	1.47	1.000	38.51	38.52	0.987	0.987	NO	57.56	115	0.0473	57.56
79	79 PCB-108/112	5.12e5	1.50	NO	1.25	1.000	38.67	38.67	0.991	0.991	NO	111.1	111	0.0557	111.1
80	80 PCB-83	3.15e5	1.51	NO	1.55	1.000	38.83	38.83	0.995	0.995	NO	55.17	110	0.0450	55.17
81	81 PCB-97	2.13e5	1.51	NO	1.07	1.000	39.06	39.04	1.001	1.000	NO	53.70	107	0.0648	53.70
82	82 PCB-86	2.12e5	1.53	NO	0.996	1.000	39.21	39.19	1.005	1.004	NO	57.61	115	0.0700	57.61
83	83 PCB-87/117/125	7.88e5	1.52	NO	1.33	1.000	39.32	39.32	1.008	1.008	NO	160.3	107	0.0523	160.3
84	84 PCB-111/115	6.23e5	1.62	NO	1.60	1.000	39.49	39.49	1.012	1.012	NO	105.4	105	0.0435	105.4
85	85 PCB-85/116	4.61e5	1.38	NO	1.22	1.000	39.61	39.62	1.015	1.015	NO	102.8	103	0.0573	102.8
86	86 PCB-120	3.21e5	1.54	NO	1.68	1.000	39.88	39.88	1.022	1.022	NO	51.75	104	0.0414	51.76
87	87 PCB-110	2.72e5	1.57	NO	1.49	1.000	40.02	40.01	1.026	1.025	NO	49.64	99.3	0.0469	49.64
88	88 PCB-82	1.59e5	1.52	NO	0.674	1.000	40.65	40.66	0.976	0.976	NO	49.31	98.6	0.0829	49.31
89	89 PCB-124	2.81e5	1.52	NO	1.16	1.000	41.36	41.37	0.993	0.993	NO	50.58	101	0.0481	50.58
90	90 PCB-107/109	6.13e5	1.52	NO	1.17	1.000	41.51	41.51	0.996	0.996	NO	110.0	110	0.0479	110.0
91	91 PCB-123	2.68e5	1.53	NO	1.04	1.000	41.69	41.70	1.000	1.001	NO	53.99	108	0.0537	53.99
92	92 PCB-106/118	5.93e5	1.51	NO	1.07	1.000	41.91	41.91	1.001	1.001	NO	107.5	108	0.0483	107.5
93	93 PCB-114	3.74e5	1.57	NO	1.16	1.000	42.56	42.56	1.000	1.000	NO	51.00	102	0.0414	51.00
94	94 PCB-122	3.36e5	1.61	NO	0.973	1.000	42.69	42.70	1.003	1.004	NO	54.74	109	0.0495	54.74
95	95 PCB-105	3.66e5	1.60	NO	1.10	1.000	43.45	43.45	1.000	1.000	NO	52.56	105	0.0429	52.56
96	96 PCB-127	3.85e5	1.58	NO	1.11	1.000	43.79	43.79	1.000	1.000	NO	53.47	107	0.0411	53.47
97	97 PCB-126	3.52e5	1.54	NO	1.21	1.000	45.76	45.76	1.000	1.000	NO	52.18	104	0.0451	52.18
98	98 PCB-155	1.92e5	1.23	NO	0.874	1.000	37.22	37.22	1.000	1.000	NO	55.06	110	0.0185	55.06
99	99 PCB-150	1.98e5	1.26	NO	0.881	1.000	38.52	38.52	1.036	1.036	NO	56.34	113	0.0184	56.34
100	1... PCB-152	2.13e5	1.27	NO	1.00	1.000	39.00	39.02	1.048	1.049	NO	52.99	106	0.0161	52.99
101	1... PCB-145	2.01e5	1.28	NO	1.00	1.000	39.47	39.47	1.061	1.061	NO	50.41	101	0.0162	50.41
102	1... PCB-136	1.72e5	1.38	NO	0.843	1.000	39.80	39.80	1.070	1.070	NO	51.10	102	0.0192	51.10
103	1... PCB-148	1.31e5	1.13	NO	0.693	1.000	39.91	39.93	1.073	1.074	NO	47.08	94.2	0.0234	47.08
104	1... PCB-154	1.39e5	1.26	NO	0.724	1.000	40.44	40.44	1.087	1.087	NO	48.17	96.3	0.0224	48.17

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Dataset: U:\VG11.PRO\Results\191114K2\191114K2-1.qld

Last Altered: Friday, November 15, 2019 07:32:05 Pacific Standard Time

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Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151	1.22e5	1.24	NO	0.632	1.000	41.09	41.09	1.105	1.105	NO	48.37	96.7	0.0256	48.37
106	1... PCB-135	1.37e5	1.31	NO	0.716	1.000	41.32	41.31	1.111	1.110	NO	47.79	95.6	0.0226	47.79
107	1... PCB-144	1.36e5	1.25	NO	0.667	1.000	41.42	41.42	1.114	1.114	NO	50.87	102	0.0243	50.87
108	1... PCB-147	1.34e5	1.30	NO	0.661	1.000	41.55	41.57	1.117	1.118	NO	50.75	102	0.0245	50.75
109	1... PCB-139/149	3.04e5	1.28	NO	0.738	1.000	41.83	41.83	1.125	1.125	NO	103.1	103	0.0219	103.1
110	1... PCB-140	1.29e5	1.30	NO	0.627	1.000	42.02	42.04	1.130	1.130	NO	51.41	103	0.0258	51.41
111	1... PCB-134/143	4.03e5	1.21	NO	0.733	1.000	42.49	42.49	0.975	0.975	NO	105.9	106	0.0610	105.9
112	1... PCB-131/133	4.30e5	1.18	NO	0.790	1.000	42.78	42.79	0.982	0.982	NO	104.9	105	0.0566	104.9
113	1... PCB-142	1.96e5	1.19	NO	0.708	1.000	42.93	42.94	0.985	0.985	NO	53.35	107	0.0631	53.35
114	1... PCB-146/165	5.30e5	1.21	NO	0.959	1.000	43.19	43.19	0.991	0.991	NO	106.3	106	0.0466	106.3
115	1... PCB-132/161	5.30e5	1.19	NO	0.974	1.000	43.42	43.44	0.996	0.997	NO	104.8	105	0.0459	104.8
116	1... PCB-153	2.67e5	1.20	NO	1.01	1.000	43.60	43.62	1.000	1.001	NO	50.84	102	0.0442	50.84
117	1... PCB-168	2.74e5	1.18	NO	1.02	1.000	43.83	43.83	1.006	1.006	NO	51.83	104	0.0439	51.84
118	1... PCB-141	2.15e5	1.21	NO	0.967	1.000	44.38	44.38	1.000	1.000	NO	52.57	105	0.0547	52.56
119	1... PCB-137	2.27e5	1.20	NO	0.987	1.000	44.76	44.78	1.009	1.009	NO	54.53	109	0.0536	54.53
120	1... PCB-130	1.66e5	1.24	NO	0.840	1.000	44.88	44.88	1.012	1.012	NO	46.71	93.4	0.0630	46.70
121	1... PCB-138/163/164	8.19e5	1.19	NO	1.23	1.000	45.25	45.27	1.001	1.001	NO	159.0	106	0.0449	159.0
122	1... PCB-158/160	5.22e5	1.17	NO	1.18	1.000	45.50	45.52	1.006	1.007	NO	105.5	106	0.0468	105.5
123	1... PCB-129	1.70e5	1.22	NO	0.819	1.000	45.75	45.76	1.012	1.012	NO	49.44	98.9	0.0673	49.44
124	1... PCB-166	2.87e5	1.17	NO	1.07	1.000	46.24	46.24	0.993	0.993	NO	52.44	105	0.0422	52.44
125	1... PCB-159	3.09e5	1.17	NO	1.12	1.000	46.58	46.58	1.000	1.000	NO	53.98	108	0.0403	53.98
126	1... PCB-128/162	4.48e5	1.18	NO	0.851	1.000	46.87	46.86	1.007	1.007	NO	103.0	103	0.0530	103.0
127	1... PCB-167	2.72e5	1.15	NO	1.04	1.000	47.28	47.28	1.000	1.000	NO	52.53	105	0.0441	52.53
128	1... PCB-156	3.01e5	1.17	NO	1.06	1.000	48.61	48.61	1.000	1.000	NO	52.92	106	0.0399	52.92
129	1... PCB-157	2.76e5	1.20	NO	0.978	1.000	48.91	48.89	1.001	1.000	NO	51.76	104	0.0444	51.76
130	1... PCB-169	2.92e5	1.19	NO	1.11	1.000	51.17	51.17	1.000	1.000	NO	51.45	103	0.0424	51.45
131	1... PCB-188	2.82e5	1.05	NO	1.19	1.000	43.25	43.23	1.001	1.000	NO	53.74	107	0.0457	53.74
132	1... PCB-184	2.69e5	1.01	NO	1.17	1.000	43.69	43.70	1.011	1.011	NO	52.39	105	0.0467	52.39
133	1... PCB-179	2.72e5	1.05	NO	1.18	1.000	44.50	44.50	1.030	1.030	NO	52.51	105	0.0464	52.51
134	1... PCB-176	2.66e5	1.03	NO	1.16	1.000	44.97	44.97	1.041	1.041	NO	52.11	104	0.0470	52.11
135	1... PCB-186	2.78e5	1.03	NO	1.22	1.000	45.59	45.60	1.055	1.055	NO	51.91	104	0.0448	51.91
136	1... PCB-178	1.81e5	1.03	NO	0.830	1.000	46.10	46.13	1.067	1.067	NO	49.58	99.2	0.0657	49.58
137	1... PCB-175	1.87e5	1.03	NO	0.849	1.000	46.46	46.49	1.075	1.076	NO	50.17	100	0.0643	50.17
138	1... PCB-182/187	4.18e5	1.03	NO	0.960	1.000	46.66	46.65	1.080	1.080	NO	98.89	98.9	0.0568	98.89
139	1... PCB-183	2.06e5	1.02	NO	0.957	1.000	46.99	46.98	1.088	1.087	NO	48.98	98.0	0.0570	48.98
140	1... PCB-185	1.94e5	1.02	NO	1.32	1.000	47.66	47.66	0.955	0.955	NO	51.00	102	0.0633	51.00



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Last Altered: Friday, November 15, 2019 07:32:05 Pacific Standard Time

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Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174	1.81e5	1.17	NO	1.22	1.000	48.04	48.04	0.962	0.962	NO	51.52	103	0.0686	51.52
142	1... PCB-181	2.11e5	0.92	NO	1.41	1.000	48.13	48.13	0.964	0.964	NO	51.86	104	0.0591	51.86
143	1... PCB-177	1.81e5	1.04	NO	1.24	1.000	48.31	48.32	0.968	0.968	NO	50.55	101	0.0674	50.55
144	1... PCB-171	1.90e5	1.04	NO	1.24	1.000	48.61	48.61	0.974	0.974	NO	53.06	106	0.0673	53.06
145	1... PCB-173	1.74e5	1.00	NO	1.14	1.000	49.04	49.06	0.983	0.983	NO	52.86	106	0.0732	52.86
146	1... PCB-172	1.94e5	1.05	NO	1.31	1.000	49.53	49.52	0.992	0.992	NO	51.61	103	0.0639	51.61
147	1... PCB-192	2.56e5	1.01	NO	1.70	1.000	49.72	49.72	0.996	0.996	NO	52.27	105	0.0491	52.27
148	1... PCB-180	2.04e5	1.05	NO	1.32	1.000	49.93	49.93	1.000	1.000	NO	53.61	107	0.0633	53.61
149	1... PCB-193	2.36e5	1.01	NO	1.54	1.000	50.16	50.14	1.005	1.005	NO	53.26	107	0.0543	53.26
150	1... PCB-191	2.41e5	1.04	NO	1.57	1.000	50.41	50.41	1.010	1.010	NO	53.06	106	0.0531	53.06
151	1... PCB-170	1.72e5	1.02	NO	1.36	1.000	51.60	51.60	1.000	1.000	NO	50.66	101	0.0676	50.66
152	1... PCB-190	2.37e5	1.01	NO	1.84	1.000	51.79	51.79	1.004	1.004	NO	51.79	104	0.0499	51.79
153	1... PCB-189	2.22e5	1.02	NO	1.33	1.000	53.29	53.29	1.000	1.000	NO	53.49	107	0.0525	53.49
154	1... PCB-202	2.08e5	0.89	NO	1.02	1.000	48.83	48.83	1.001	1.001	NO	55.47	111	0.0343	55.47
155	1... PCB-201	1.82e5	0.89	NO	0.915	1.000	49.32	49.33	1.011	1.011	NO	54.05	108	0.0383	54.06
156	1... PCB-204	1.96e5	0.89	NO	0.979	1.000	49.47	49.48	1.014	1.014	NO	54.48	109	0.0358	54.48
157	1... PCB-197	1.96e5	0.90	NO	0.979	1.000	49.79	49.80	1.020	1.021	NO	54.47	109	0.0358	54.47
158	1... PCB-200	1.90e5	0.88	NO	0.954	1.000	50.74	50.73	1.040	1.040	NO	54.31	109	0.0368	54.31
159	1... PCB-198	1.33e5	0.88	NO	0.748	1.000	52.26	52.28	1.071	1.071	NO	48.54	97.1	0.0469	48.54
160	1... PCB-199	1.33e5	0.87	NO	0.706	1.000	52.37	52.40	1.073	1.074	NO	51.29	103	0.0497	51.29
161	1... PCB-196/203	2.65e5	0.89	NO	0.785	1.000	52.71	52.70	1.080	1.080	NO	92.06	92.1	0.0447	92.06
162	1... PCB-195	1.84e5	0.92	NO	1.03	1.000	53.97	53.98	0.984	0.984	NO	45.90	91.8	0.0414	45.90
163	1... PCB-194	2.27e5	0.89	NO	1.16	1.000	54.89	54.89	1.000	1.000	NO	50.59	101	0.0371	50.59
164	1... PCB-205	3.03e5	0.89	NO	1.40	1.000	55.15	55.17	1.005	1.005	NO	55.71	111	0.0306	55.71
165	1... PCB-208	2.01e5	1.30	NO	0.934	1.000	54.13	54.13	1.000	1.000	NO	51.07	102	0.0434	51.07
166	1... PCB-207	2.07e5	1.32	NO	0.912	1.000	54.45	54.46	1.006	1.007	NO	53.78	108	0.0444	53.78
167	1... PCB-206	1.77e5	1.32	NO	0.987	1.000	56.43	56.42	1.000	1.000	NO	49.77	99.5	0.0490	49.77
168	1... PCB-209	1.90e5	1.19	NO	0.943	1.000	57.62	57.64	1.000	1.000	NO	52.30	105	0.00581	52.30
169	1... 13C-PCB-1	1.16e6	3.29	NO	1.08	1.000	15.66	15.65	0.609	0.609	NO	85.26	85.3	0.104	
170	1... 13C-PCB-3	1.18e6	3.53	NO	1.09	1.000	18.32	18.32	0.712	0.712	NO	85.79	85.8	0.103	
171	1... 13C-PCB-4	7.30e5	1.59	NO	0.640	1.000	19.67	19.67	0.765	0.765	NO	90.26	90.3	0.0567	
172	1... 13C-PCB-9	1.23e6	1.59	NO	0.995	1.000	21.51	21.51	0.837	0.837	NO	97.59	97.6	0.0365	
173	1... 13C-PCB-11	1.27e6	1.59	NO	0.971	1.000	24.99	24.99	0.972	0.972	NO	103.9	104	0.0374	
174	1... 13C-PCB-19	6.63e5	0.99	NO	0.637	1.000	23.93	23.93	0.931	0.931	NO	82.31	82.3	0.439	
175	1... 13C-PCB-32	8.79e5	1.00	NO	0.910	1.000	26.95	26.94	1.048	1.048	NO	76.49	76.5	0.307	
176	1... 13C-PCB-28	1.14e6	0.96	NO	1.07	1.000	28.95	28.95	1.003	1.003	NO	112.9	113	0.446	

Dataset: U:\VG11.PRO\Results\191114K2\191114K2-1.qld

Last Altered: Friday, November 15, 2019 07:32:05 Pacific Standard Time

Printed: Friday, November 15, 2019 07:49:54 Pacific Standard Time

Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	9.20e5	0.95	NO	0.959	1.000	32.94	32.97	1.141	1.143	NO	102.0	102	0.497	
178	1... 13C-PCB-54	7.49e5	0.75	NO	1.10	1.000	27.78	27.80	0.753	0.753	NO	86.64	86.6	0.0795	
179	1... 13C-PCB-52	6.18e5	0.77	NO	0.844	1.000	31.47	31.47	0.853	0.853	NO	93.02	93.0	0.103	
180	1... 13C-PCB-47	6.42e5	0.76	NO	0.893	1.000	31.99	31.99	0.867	0.867	NO	91.32	91.3	0.0977	
181	1... 13C-PCB-70	7.74e5	0.75	NO	1.01	1.000	35.61	35.62	0.965	0.965	NO	97.58	97.6	0.0866	
182	1... 13C-PCB-80	8.05e5	0.75	NO	1.05	1.000	36.04	36.06	0.977	0.977	NO	97.74	97.7	0.0835	
183	1... 13C-PCB-81	7.10e5	0.76	NO	0.985	1.000	39.26	39.26	1.064	1.064	NO	91.60	91.6	0.0886	
184	1... 13C-PCB-77	6.67e5	0.75	NO	0.958	1.000	39.87	39.88	1.080	1.081	NO	88.39	88.4	0.0911	
185	1... 13C-PCB-104	5.69e5	1.62	NO	1.10	1.000	32.66	32.66	0.827	0.827	NO	102.2	102	0.0478	
186	1... 13C-PCB-95	4.64e5	1.58	NO	0.852	1.000	35.93	35.93	0.910	0.910	NO	107.4	107	0.0615	
187	1... 13C-PCB-101	4.42e5	1.62	NO	0.814	1.000	37.68	37.68	0.955	0.955	NO	107.0	107	0.0644	
188	1... 13C-PCB-97	3.69e5	1.61	NO	0.709	1.000	39.02	39.02	0.989	0.989	NO	102.5	102	0.0739	
189	1... 13C-PCB-123	4.77e5	1.63	NO	0.922	1.000	41.65	41.66	1.055	1.056	NO	102.1	102	0.0569	
190	1... 13C-PCB-118	5.15e5	1.65	NO	0.975	1.000	41.84	41.87	1.060	1.061	NO	104.2	104	0.0538	
191	1... 13C-PCB-114	6.32e5	1.52	NO	1.52	1.000	42.53	42.54	0.908	0.909	NO	118.9	119	0.0769	
192	1... 13C-PCB-105	6.32e5	1.50	NO	1.58	1.000	43.42	43.44	0.927	0.928	NO	114.2	114	0.0738	
193	1... 13C-PCB-127	6.49e5	1.49	NO	1.62	1.000	43.78	43.78	0.935	0.935	NO	114.5	114	0.0721	
194	1... 13C-PCB-126	5.56e5	1.51	NO	1.45	1.000	45.73	45.75	0.976	0.977	NO	110.1	110	0.0808	
195	1... 13C-PCB-155	4.00e5	1.27	NO	1.03	1.000	37.19	37.20	0.942	0.942	NO	76.80	76.8	0.0338	
196	1... 13C-PCB-153	5.19e5	1.25	NO	1.42	1.000	43.59	43.59	0.931	0.931	NO	104.3	104	0.0911	
197	1... 13C-PCB-141	4.22e5	1.29	NO	1.14	1.000	44.37	44.36	0.947	0.947	NO	105.6	106	0.113	
198	1... 13C-PCB-138	4.20e5	1.30	NO	1.18	1.000	45.23	45.22	0.966	0.966	NO	101.7	102	0.110	
199	1... 13C-PCB-159	5.12e5	1.25	NO	1.43	1.000	46.57	46.56	0.994	0.994	NO	102.1	102	0.0905	
200	2... 13C-PCB-167	4.97e5	1.28	NO	1.42	1.000	47.27	47.26	1.009	1.009	NO	99.82	99.8	0.0910	
201	2... 13C-PCB-156	5.37e5	1.24	NO	1.40	1.000	48.59	48.59	1.038	1.038	NO	110.0	110	0.0928	
202	2... 13C-PCB-157	5.44e5	1.25	NO	1.41	1.000	48.87	48.87	1.044	1.044	NO	110.7	111	0.0922	
203	2... 13C-PCB-169	5.13e5	1.25	NO	1.35	1.000	51.14	51.15	1.092	1.092	NO	109.1	109	0.0963	
204	2... 13C-PCB-188	4.40e5	0.46	NO	1.46	1.000	43.21	43.21	0.926	0.926	NO	103.8	104	0.0731	
205	2... 13C-PCB-180	2.88e5	0.47	NO	0.932	1.000	49.91	49.91	1.070	1.070	NO	106.7	107	0.115	
206	2... 13C-PCB-170	2.49e5	0.46	NO	0.796	1.000	51.58	51.58	1.106	1.106	NO	107.8	108	0.134	
207	2... 13C-PCB-189	3.11e5	0.45	NO	1.09	1.000	53.26	53.27	1.142	1.142	NO	98.48	98.5	0.0981	
208	2... 13C-PCB-202	3.67e5	0.93	NO	1.45	1.000	48.81	48.80	1.046	1.046	NO	87.25	87.2	0.0426	
209	2... 13C-PCB-194	3.88e5	0.88	NO	0.714	1.000	54.89	54.87	0.995	0.995	NO	95.57	95.6	0.0806	
210	2... 13C-PCB-208	4.22e5	0.81	NO	0.896	1.000	54.13	54.11	0.982	0.981	NO	82.70	82.7	0.0831	
211	2... 13C-PCB-206	3.60e5	0.79	NO	0.653	1.000	56.41	56.41	1.023	1.023	NO	96.79	96.8	0.114	
212	2... 13C-PCB-209	3.85e5	1.24	NO	0.806	1.000	57.64	57.62	1.045	1.045	NO	83.95	84.0	0.0178	

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Dataset: U:\VG11.PRO\Results\191114K2\191114K2-1.qld

Last Altered: Friday, November 15, 2019 07:32:05 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:49:54 Pacific Standard Time

Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	1.26e6	1.58	NO	1.00	1.000	25.71	25.71	1.000	0.000	NO	100.0	100	0.0363	
214	2... 13C-PCB-31	9.41e5	0.97	NO	1.00	1.000	28.84	28.86	1.000	0.000	NO	100.0	100	0.477	
215	2... 13C-PCB-60	7.87e5	0.74	NO	1.00	1.000	36.90	36.90	1.000	0.000	NO	100.0	100	0.0873	
216	2... 13C-PCB-111	5.07e5	1.66	NO	1.00	1.000	39.47	39.47	1.000	0.000	NO	100.0	100	0.0524	
217	2... 13C-PCB-128	3.50e5	1.30	NO	1.00	1.000	46.82	46.83	1.000	0.000	NO	100.0	100	0.130	
218	2... 13C-PCB-182	2.90e5	0.45	NO	1.00	1.000	46.65	46.65	0.000	0.000	NO	100.0	100	0.107	
219	2... 13C-PCB-205	5.69e5	0.89	NO	1.00	1.000	55.15	55.15	1.000	0.000	NO	100.0	100	0.0575	
220	2... 13C-PCB-79	7.87e5	0.74	NO	1.03	1.000	38.03	38.00	1.031	1.030	NO	96.96	97.0	0.0846	
221	2... 13C-PCB-178	2.68e5	0.43	NO	0.875	1.000	46.10	46.09	0.988	0.988	NO	87.58	87.6	0.0994	
222	2... 13C-PCB-79	7.86e5	0.74	NO	1.05	1.000	37.99	38.00	0.967	0.968	NO	105.9	106	0.0940	
223	2... 13C-PCB-178	2.68e5	0.43	NO	0.975	1.000	46.10	46.09	0.924	0.923	NO	95.34	95.3	0.109	

75-125  
↓  
71

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time

Printed: Friday, November 15, 2019 07:12:57 Pacific Standard Time

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Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

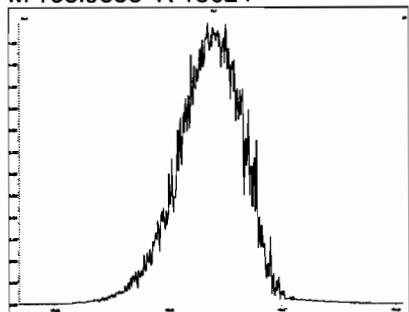
Compound name: PCB-1

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2	191114K2_2	B9J0272-BS1 OPR 10	14-Nov-19	17:06:43
3	191114K2_3	B9K0090-BS1 OPR 1	14-Nov-19	18:08:42
4	191114K2_4	B9K0059-BS1 OPR 10	14-Nov-19	19:10:42
5	191114K2_5	SOLVENT BLANK	14-Nov-19	20:12:22
6	191114K2_6	B9J0272-BLK1 Method Blank 10	14-Nov-19	21:13:01
7	191114K2_7	B9K0090-BLK1 Method Blank 1	14-Nov-19	22:15:08
8	191114K2_8	B9K0059-BLK1 Method Blank 10	14-Nov-19	23:17:07
9	191114K2_9	1903588-14RE2 A4-FPS-203-0-12-0919-MDN...	15-Nov-19	00:17:49
10	191114K2_10	1903588-18RE2 A4-FPS-202-12-24-0919-MD...	15-Nov-19	01:19:29
11	191114K2_11	1903655-06RE1 PDI-035SC-A-00-01-191010 ...	15-Nov-19	02:20:59

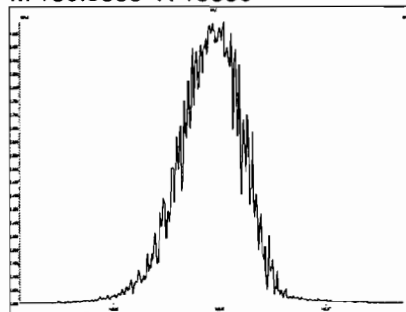
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Printed: Thursday, November 14, 2019 15:59:18 Pacific Standard Time

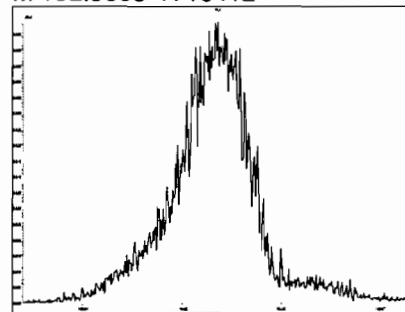
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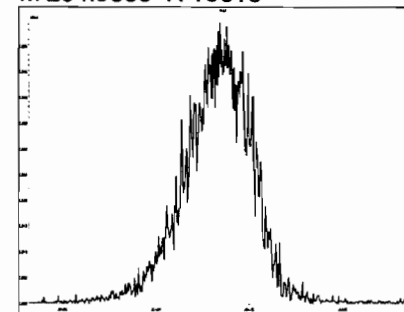
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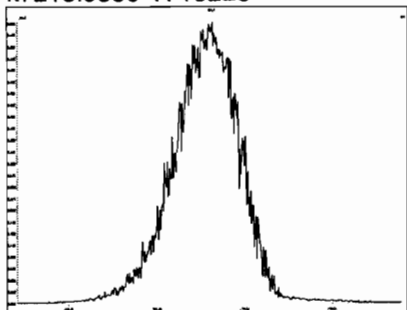
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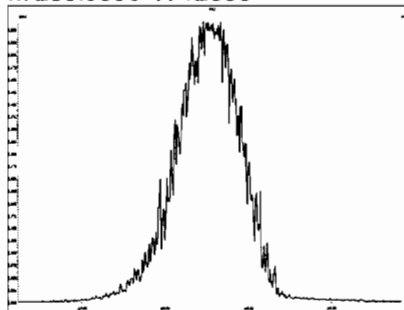
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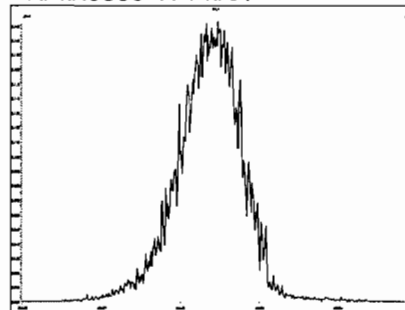
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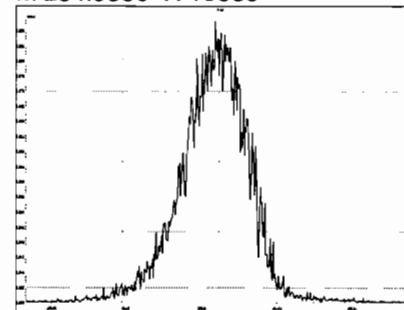
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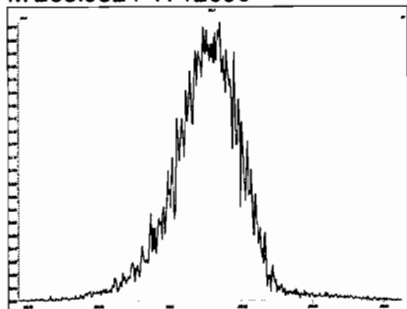
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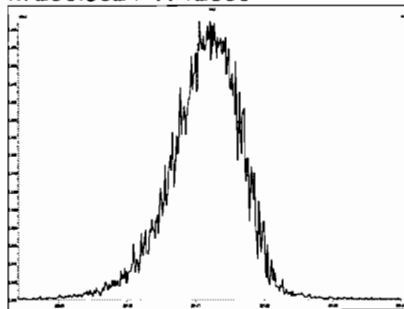
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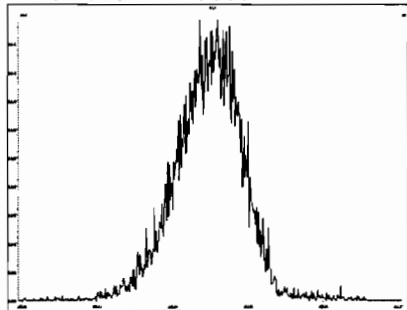
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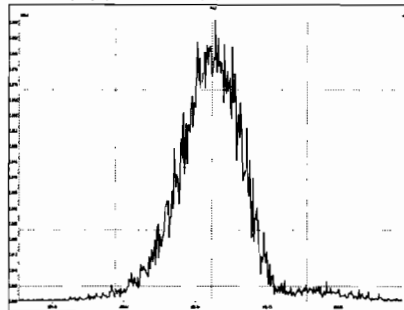
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Printed: Thursday, November 14, 2019 16:03:11 Pacific Standard Time

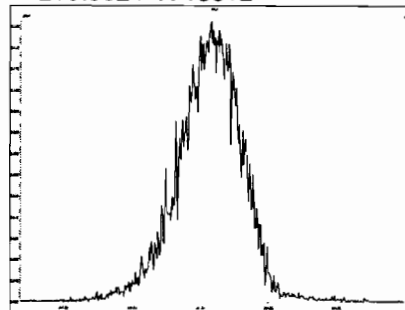
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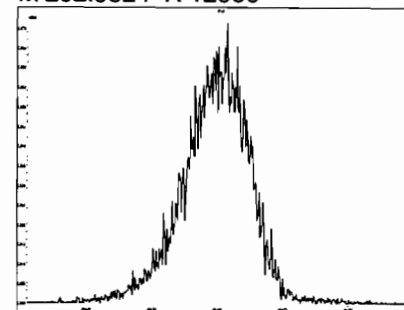
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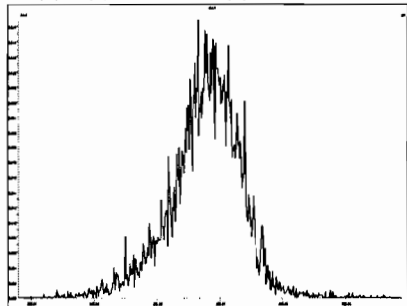
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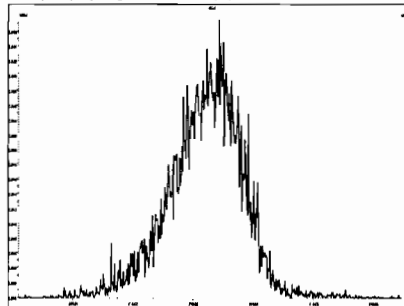
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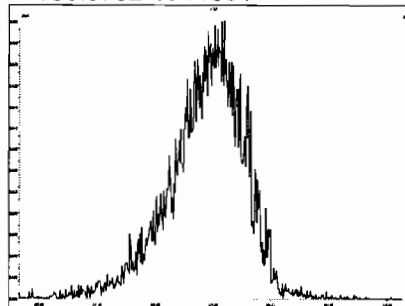
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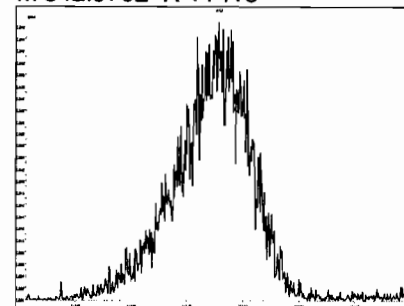
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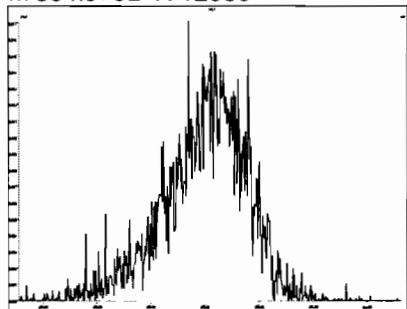
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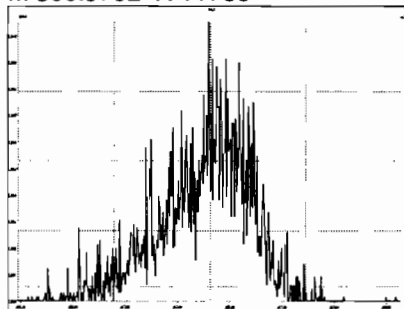
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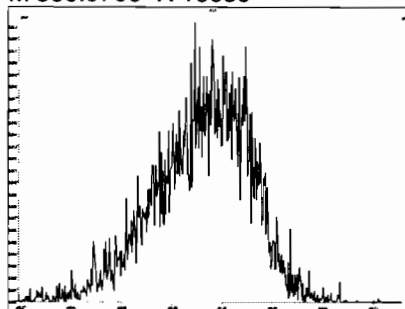
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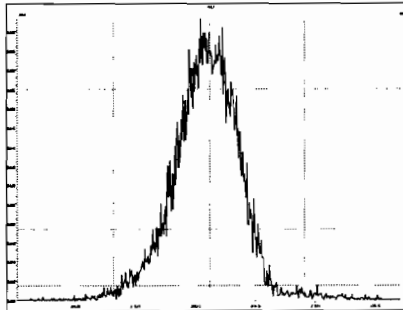
Experiment Calibration Report

MassLynx 4.1 SCN815

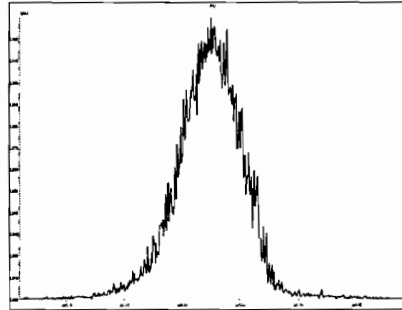
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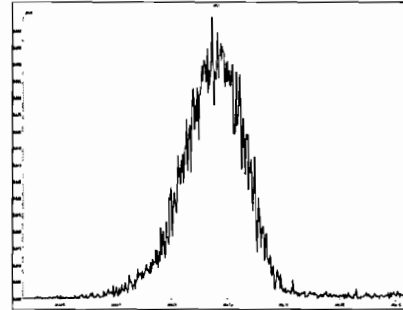
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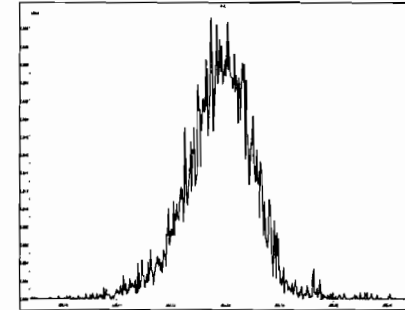
M 330.9792 R 13089



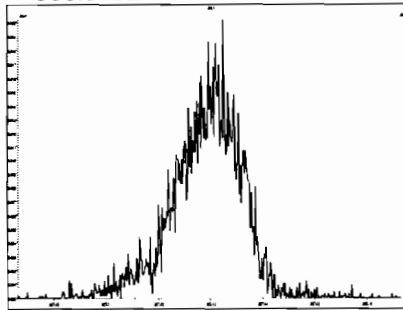
M 342.9792 R 13816



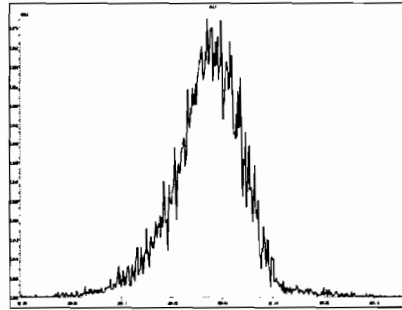
M 354.9792 R 13891



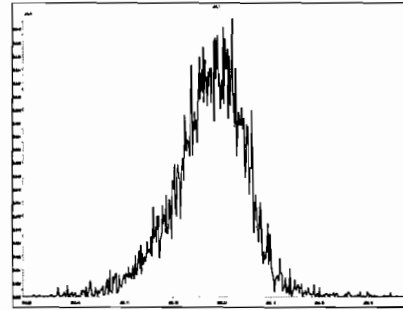
M 366.9792 R 16666



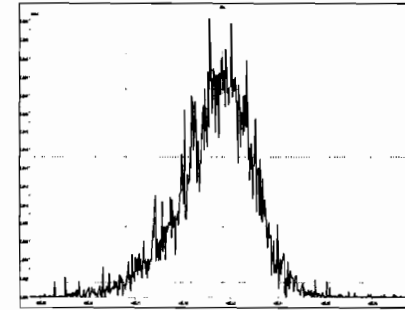
M 380.9760 R 13734



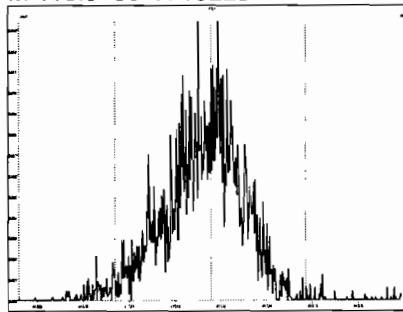
M 392.9760 R 12317



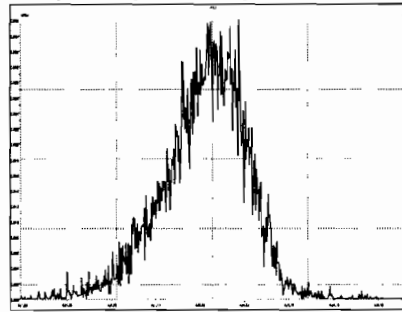
M 404.9760 R 13020



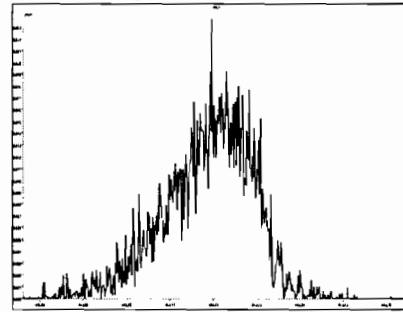
M 416.9760 R 13225



M 430.9728 R 11108



M 442.9728 R 11415

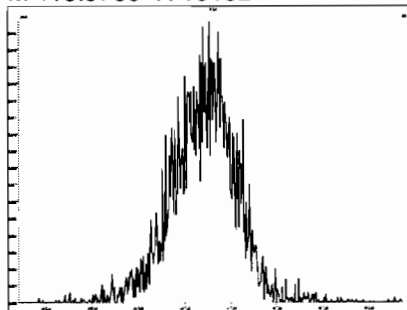




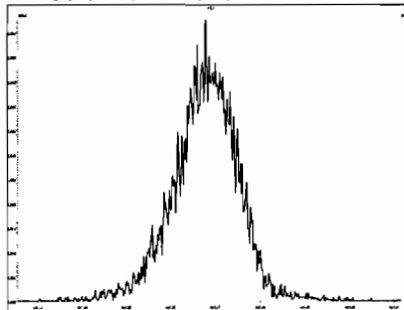
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Printed: Thursday, November 14, 2019 16:04:54 Pacific Standard Time

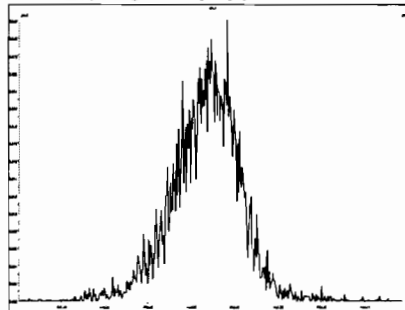
M 416.9760 R 16132



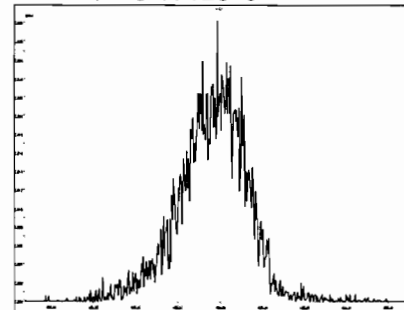
M 430.9728 R 13737



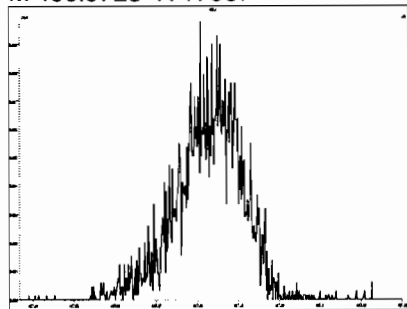
M 442.9728 R 13736



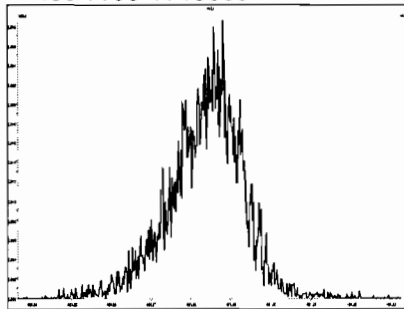
M 454.9728 R 12819



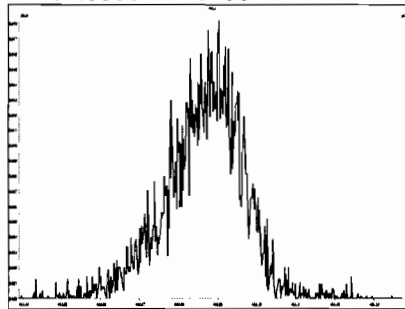
M 466.9728 R 17987



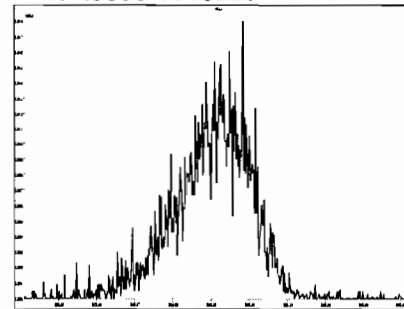
M 480.9696 R 13089



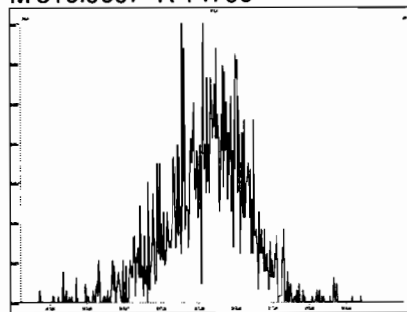
M 492.9696 R 13296



M 504.9696 R 13229



M 516.9697 R 14706



Dataset: Untitled

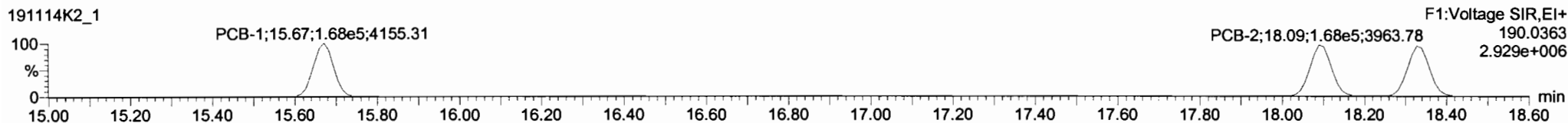
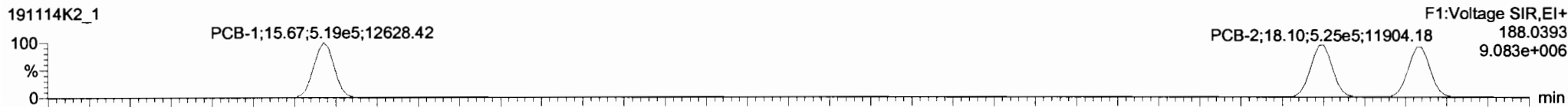
Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time

Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

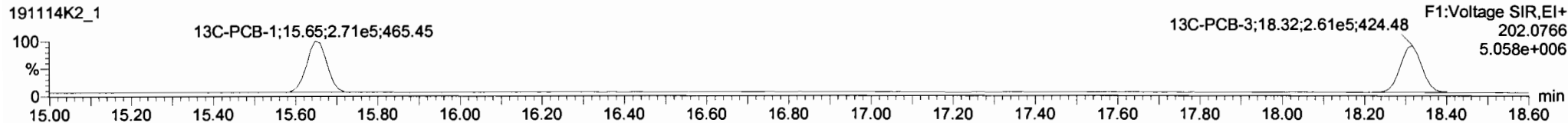
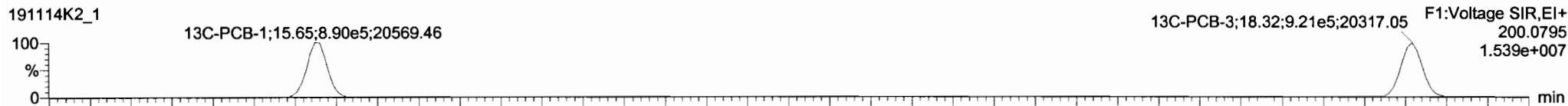
Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-14-19.mdb 14 Nov 2019 15:03:40  
Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

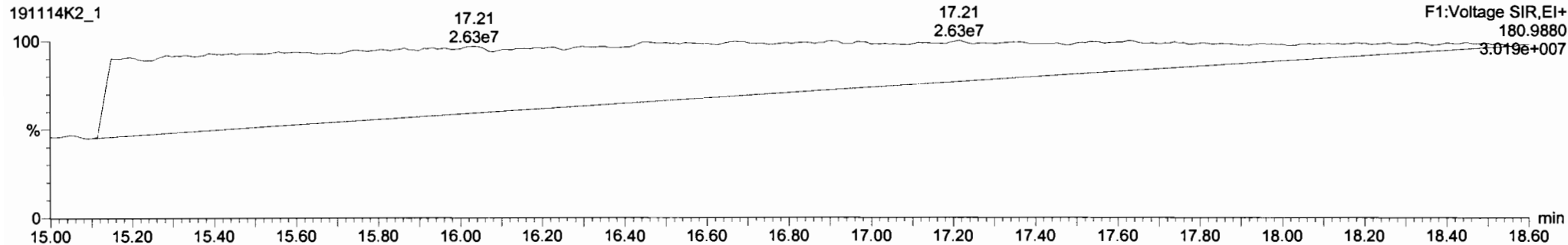
**PCB-1**



**13C-PCB-1**



**PFK1**

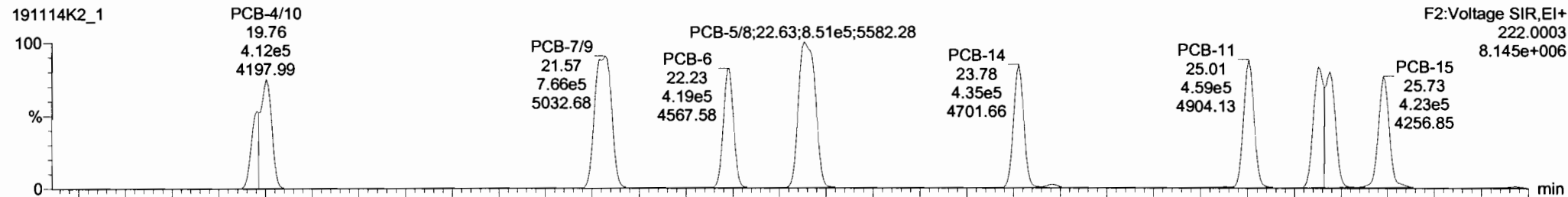


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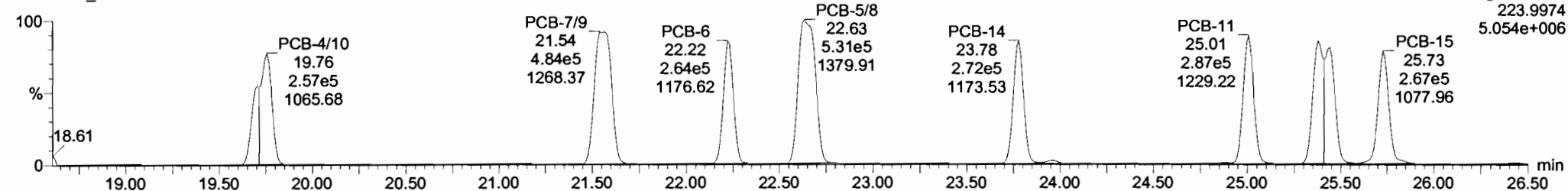
Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
 Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

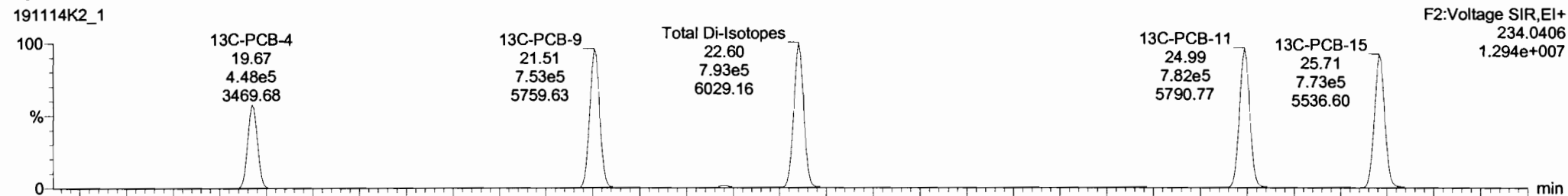
**PCB-4/10**



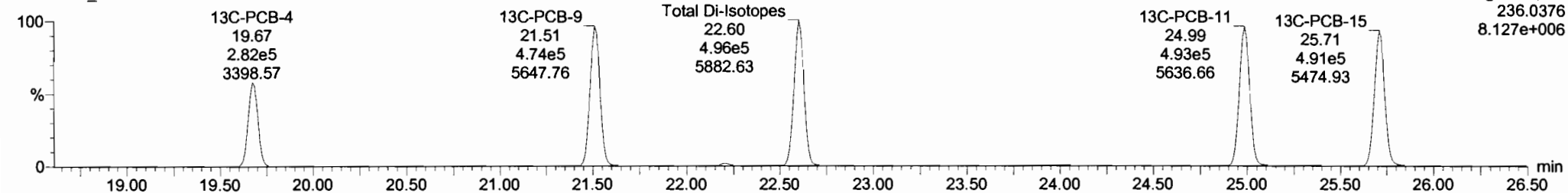
191114K2\_1



**13C-PCB-4**

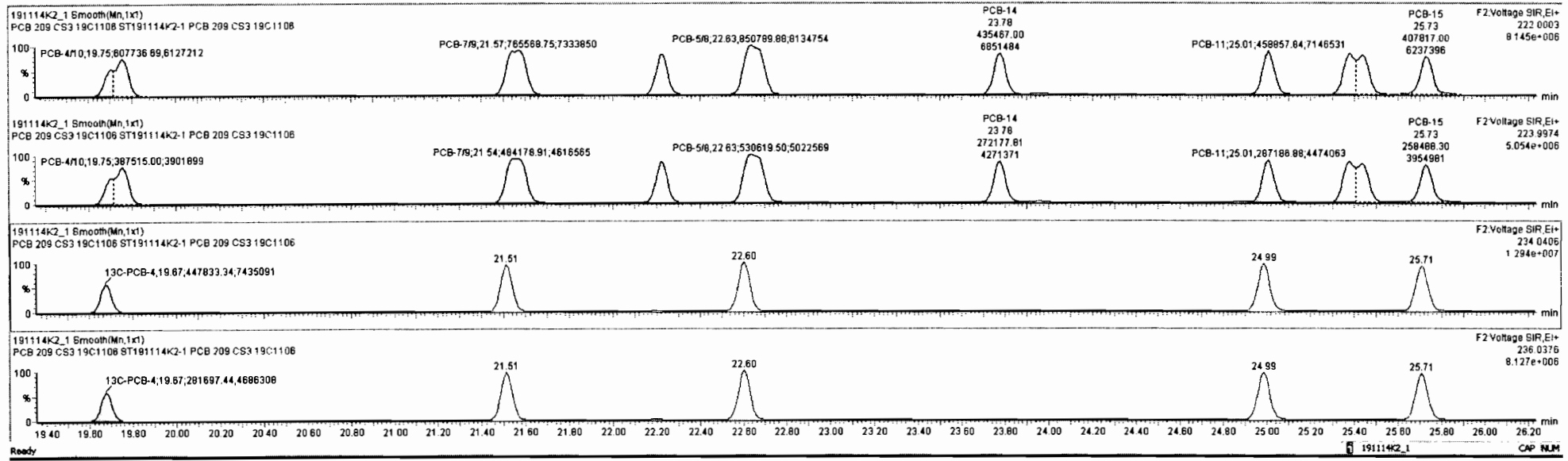


191114K2\_1



#	Name	Resp	RA	nly	RRF	wVol	Prod.RT	RT	Prod.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	173.2		0.0429	173.2
225	225 Total Di-PCBs				1.2592	1.000	0.00		0.000		NO	636.3		0.410	636.3
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	443.0		0.173	443.0
227	227 3rd Function Tri-PCBs				1.0593	1.000	0.00		0.000		NO	819.0		0.487	819.0
228	228 Total Tetra-PCBs				0.9961	1.000	0.00		0.000		NO	2231		1.19	2231
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	2202		1.59	2202
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	265.0		0.220	265.0
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	713.5		0.279	713.5
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	1464		0.996	1464

#	Name	Prod.RT	RT	m1 Resp	m2 Resp	1* Ratio (Prod)	RA	nly	EMPC	Conc.
1	11 PCB-15	25.74	25.73	4.078e5	2.585e5	1.580	1.58	NO	50.832	50.832
2	10 PCB-12/13	25.44	25.38	8.269e5	5.322e5	1.580	1.58	NO	102.97	102.97
3	9 PCB-11	25.00	25.01	4.589e5	2.872e5	1.580	1.60	NO	53.406	53.406
4	8 PCB-14	23.78	23.78	4.355e5	2.722e5	1.560	1.60	NO	53.754	53.754
5	7 PCB-5/6	22.63	22.63	8.508e5	5.306e5	1.580	1.60	NO	111.35	111.35
6	6 PCB-6	22.22	22.23	4.195e5	2.636e5	1.580	1.59	NO	54.682	54.682
7	5 PCB-7/8	21.57	21.57	7.856e5	4.842e5	1.580	1.56	NO	104.34	104.34
8	4 PCB-4/10	19.75	19.75	6.077e5	3.875e5	1.560	1.57	NO	106.97	106.97

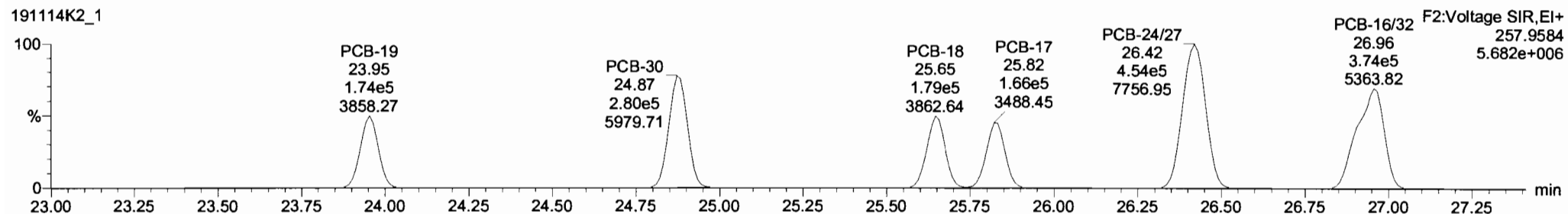
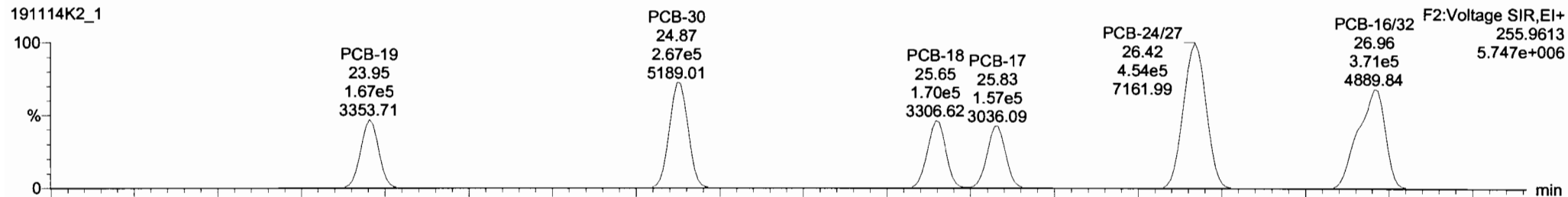


Dataset: Untitled

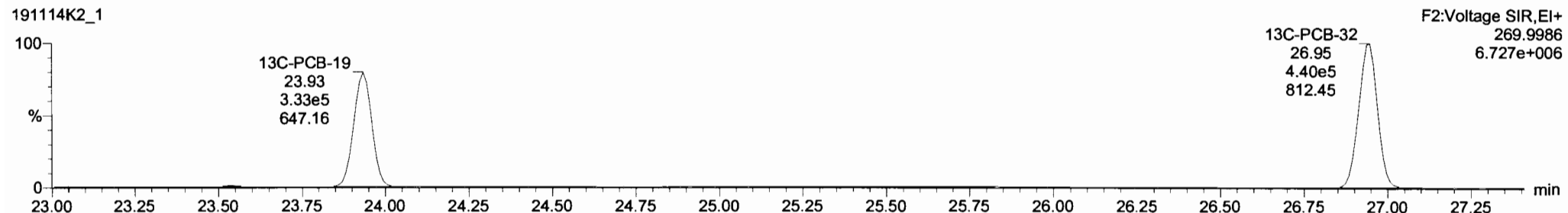
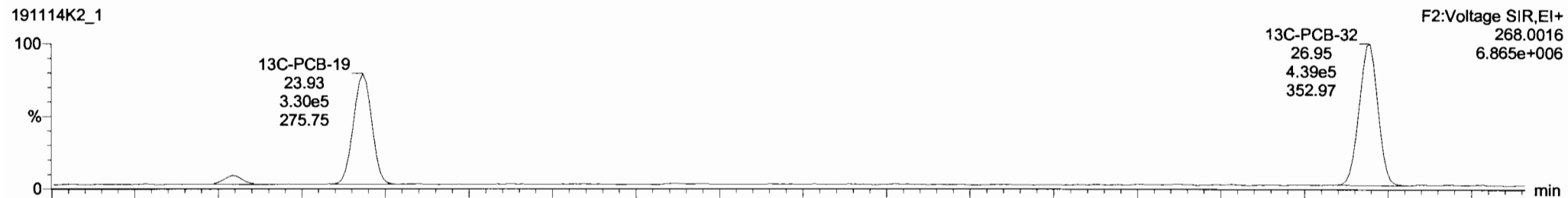
Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-19**



**13C-PCB-19**



Dataset: Untitled

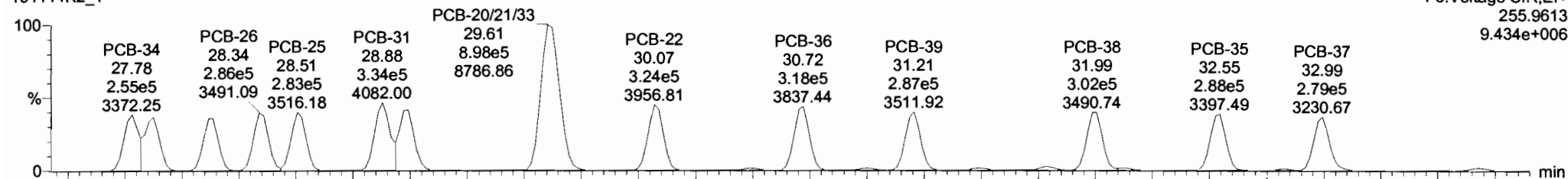
Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time

Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

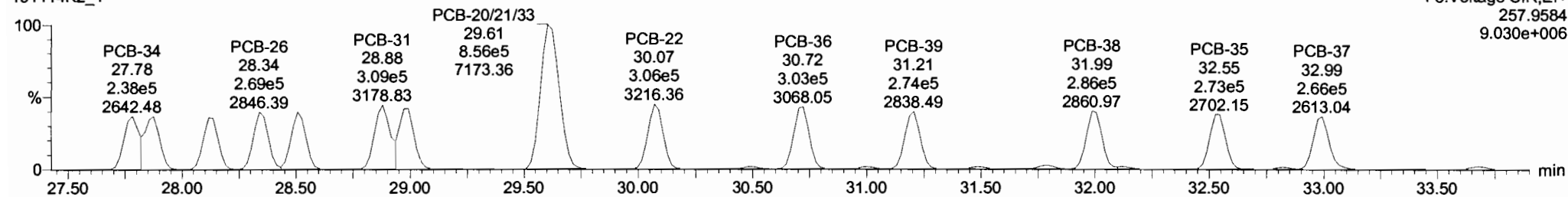
Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-34**

191114K2\_1

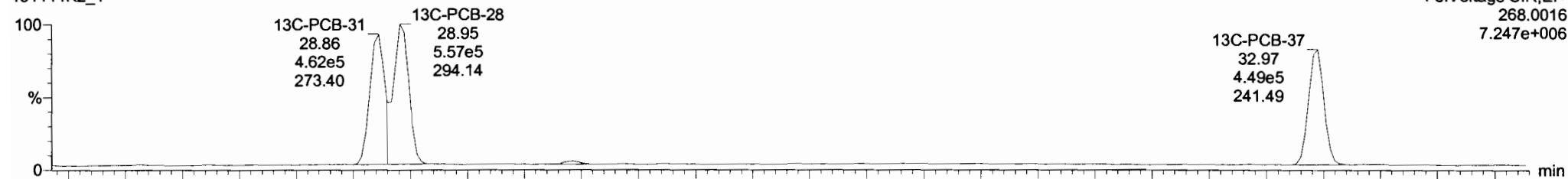


191114K2\_1

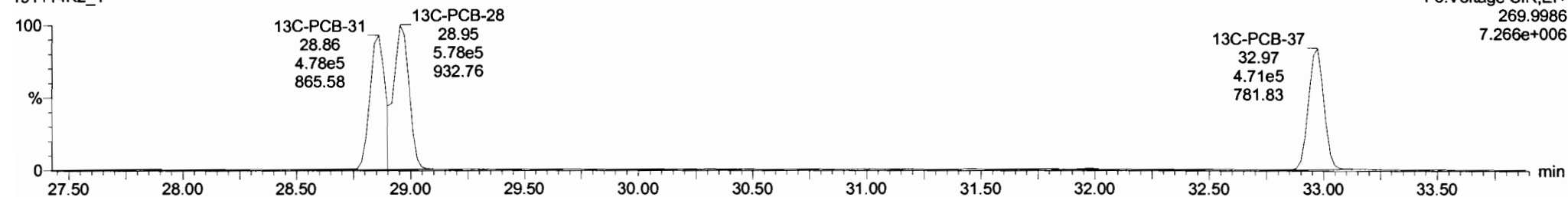


**13C-PCB-28**

191114K2\_1



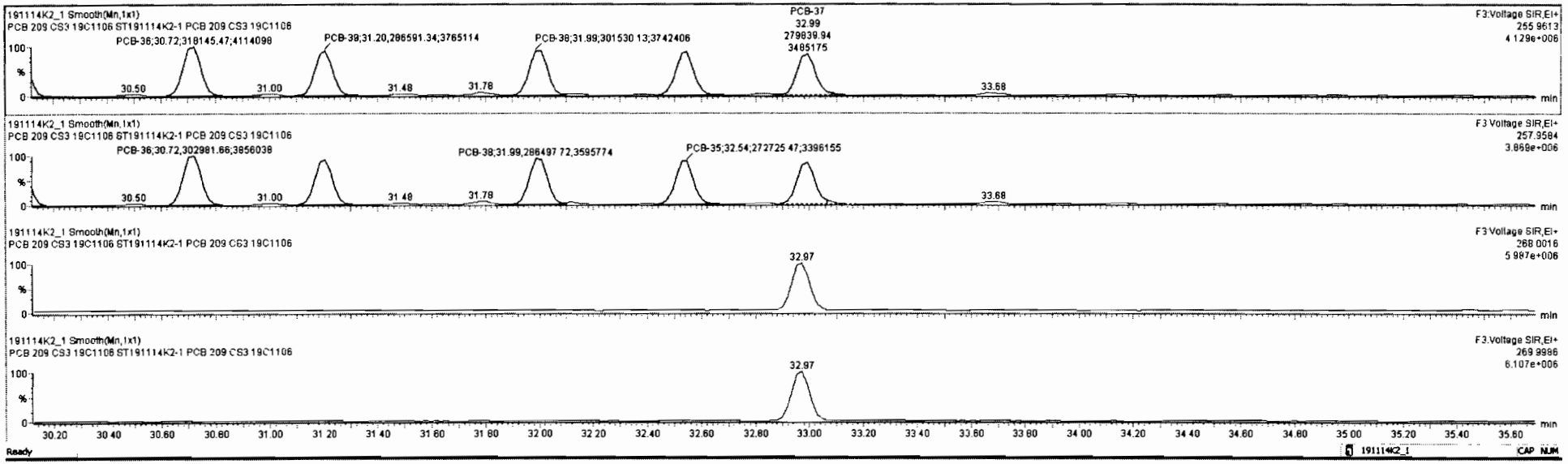
191114K2\_1



191114K2\_1 ST191114K2-1 PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wAveI	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	173.2		0.0429	173.2
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	638.3		0.410	638.3
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	443.0		0.173	443.0
227	227 3rd Function Tri-PCBs				1.0593	1.000	0.00		0.000		NO	619.0		0.467	619.0
228	228 Total Tetra-PCBs				0.9661	1.000	0.00		0.000		NO	2231		1.19	2231
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	2202		1.59	2202
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	265.0		0.220	265.0
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	713.5		0.279	713.5
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	1464		0.998	1464

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	26 PCB-22	30.07	30.07	3.240e5	3.058e5	1.040	1.06	NO	53.720	53.720
2	25 PCB-20/21/33	29.62	29.80	8.975e5	8.561e5	1.040	1.05	NO	153.98	153.98
3	24 PCB-28	26.97	28.99	3.006e5	2.894e5	1.040	1.04	NO	47.004	47.004
4	23 PCB-31	26.88	26.88	3.342e5	3.092e5	1.040	1.08	NO	50.469	50.469
5	22 PCB-25	26.49	26.51	2.826e5	2.653e5	1.040	1.07	NO	49.362	49.362
6	21 PCB-26	26.35	26.34	2.857e5	2.689e5	1.040	1.06	NO	48.815	48.815
7	20 PCB-29	26.10	26.14	2.597e5	2.455e5	1.040	1.05	NO	46.778	46.778
8	19 PCB-23	27.86	27.86	2.689e5	2.580e5	1.040	1.05	NO	47.754	47.754
9	18 PCB-34	27.76	27.78	2.553e5	2.384e5	1.040	1.07	NO	44.055	44.055



Dataset: Untitled

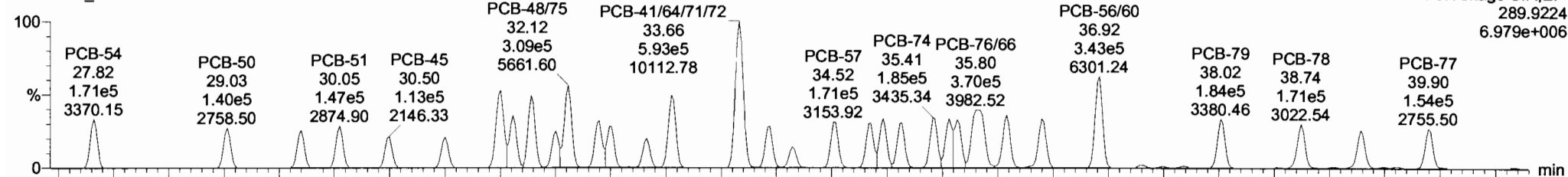
Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time

Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

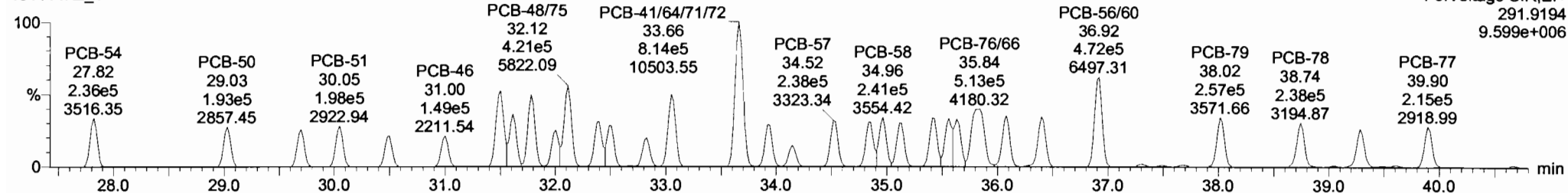
**PCB-54**

191114K2\_1



F3:Voltage SIR,EI+  
289.9224  
6.979e+006

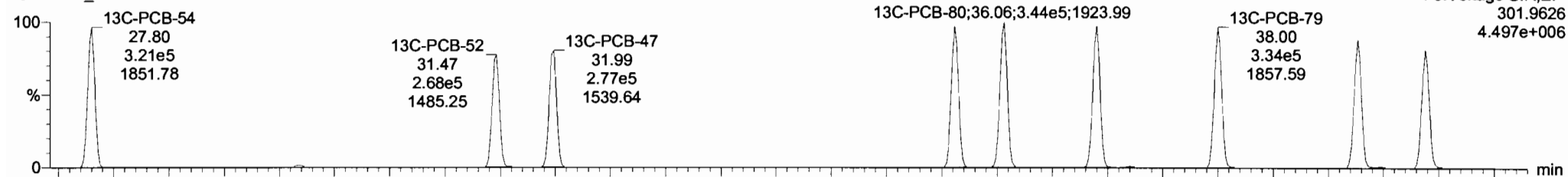
191114K2\_1



F3:Voltage SIR,EI+  
291.9194  
9.599e+006

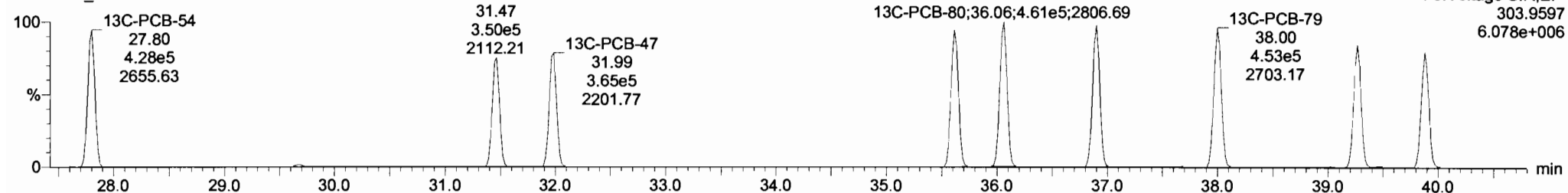
**13C-PCB-54**

191114K2\_1



F3:Voltage SIR,EI+  
301.9626  
4.497e+006

191114K2\_1



F3:Voltage SIR,EI+  
303.9597  
6.078e+006



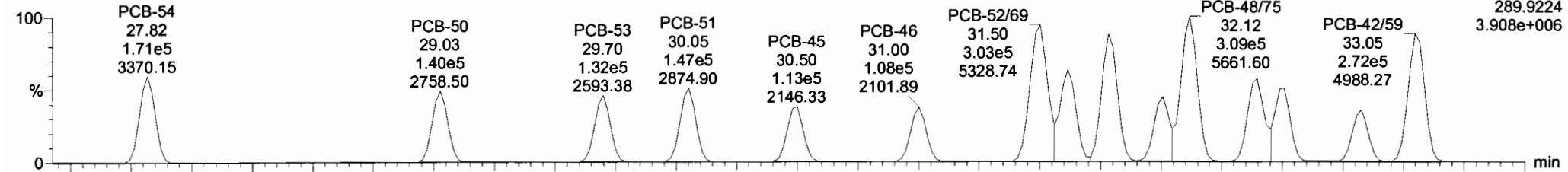
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Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

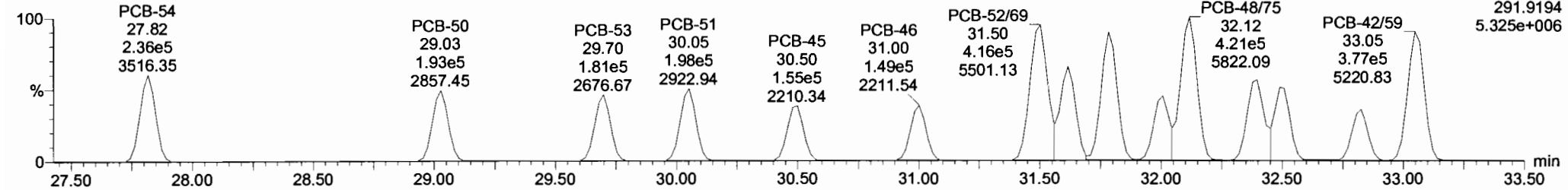
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**PCB-50**

191114K2\_1

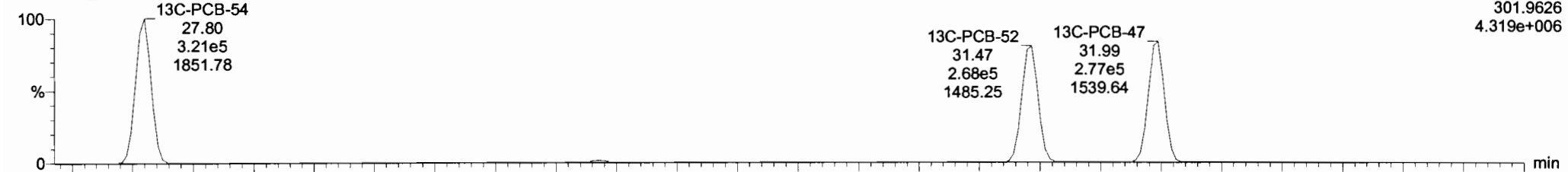


191114K2\_1

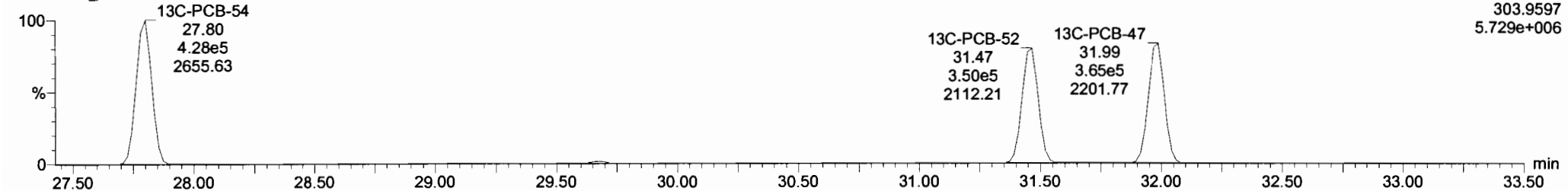


**13C-PCB-52**

191114K2\_1



191114K2\_1



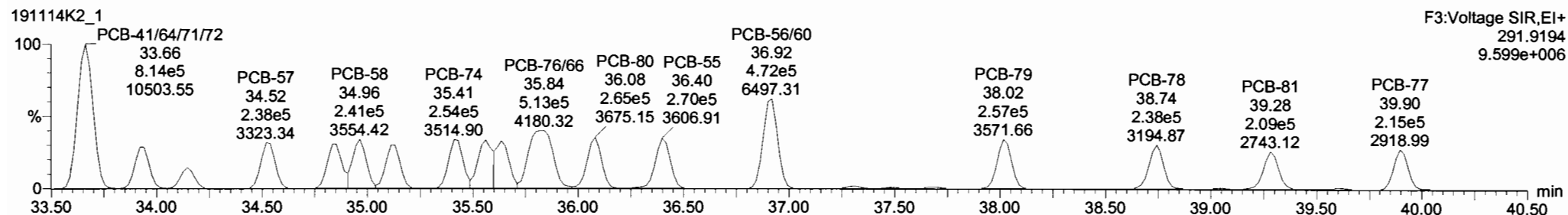
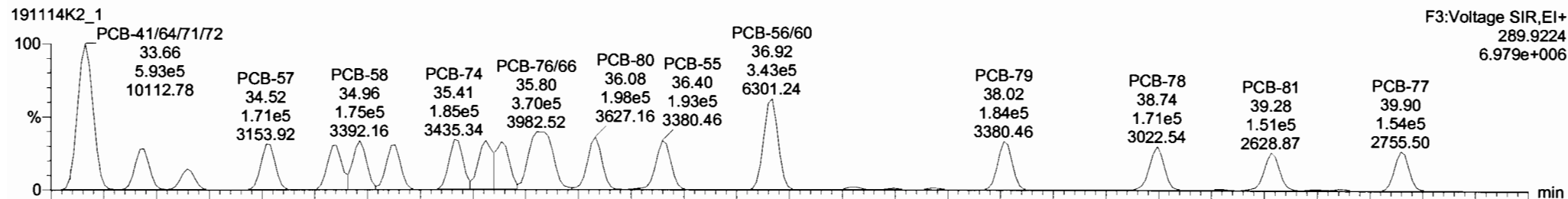
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Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time

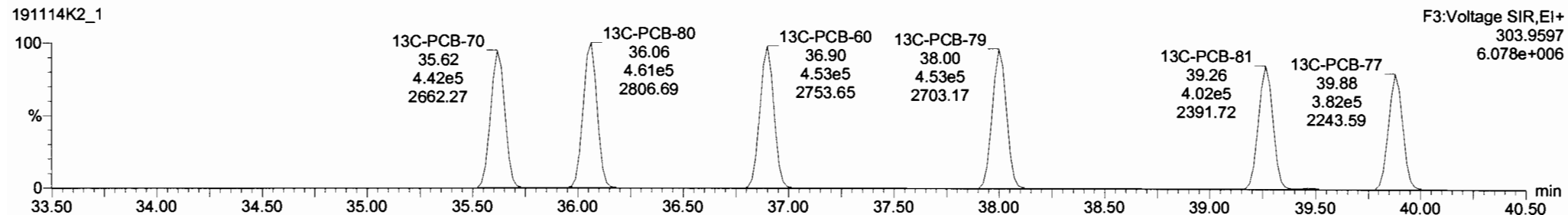
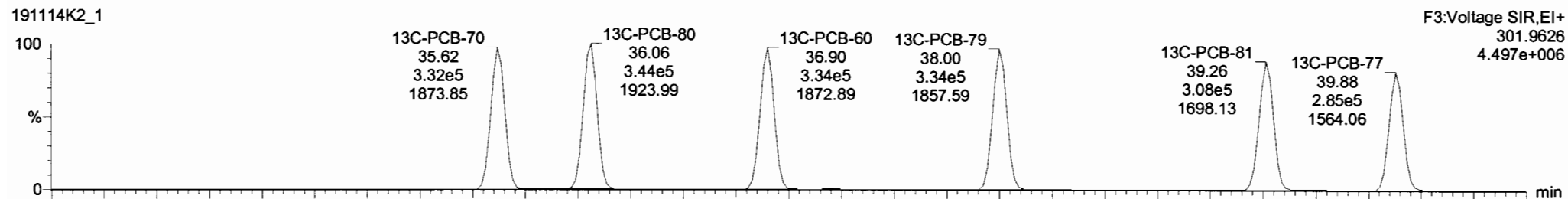
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

PCB-68

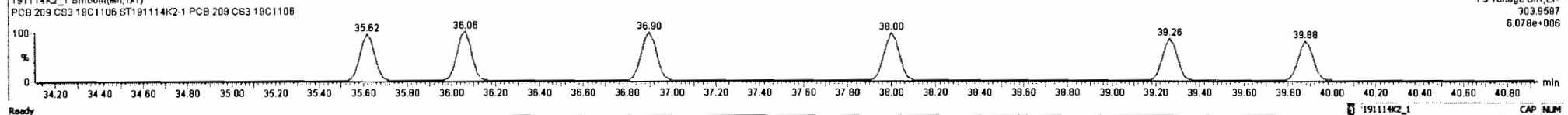
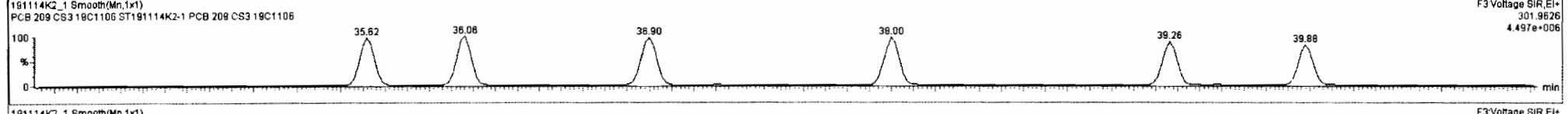
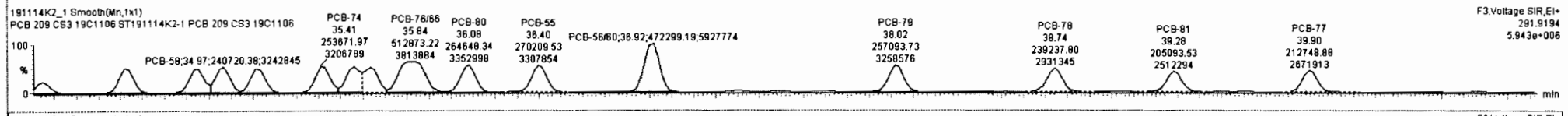
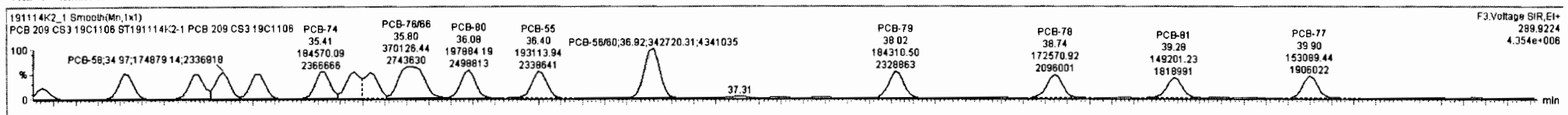


13C-PCB-60



#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	173.2		0.0429	173.2
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	638.3		0.410	638.3
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	443.0		0.173	443.0
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	819.0		0.467	819.0
228	228 Total Tetra-PCBs				0.9091	1.000	0.00		0.000		NO	2291		1.18	2291
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	2202		1.59	2202
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	265.0		0.220	265.0
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	713.5		0.279	713.5
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	1464		0.998	1464

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	33 PCB-50	29.08	29.03	1.401e5	1.927e5	0.770	0.73	NO	56.890	56.890
2	32 PCB-54	27.82	27.82	1.706e5	2.356e5	0.770	0.72	NO	54.478	54.478
3	48 PCB-42/59	33.06	33.05	2.719e5	3.766e5	0.770	0.72	NO	105.21	105.20
4	45 PCB-44	32.84	32.83	1.041e5	1.434e5	0.770	0.73	NO	50.866	50.866
5	44 PCB-62	32.50	32.51	1.470e5	1.997e5	0.770	0.74	NO	50.715	50.715
6	43 PCB-65	32.38	32.40	1.770e5	2.406e5	0.770	0.74	NO	58.684	58.684
7	42 PCB-48/75	32.12	32.12	3.092e5	4.214e5	0.770	0.73	NO	111.08	111.08
8	41 PCB-47	32.01	32.01	1.209e5	1.677e5	0.770	0.72	NO	51.737	51.737
9	40 PCB-43/49	31.79	31.78	2.578e5	3.600e5	0.770	0.72	NO	106.33	106.33



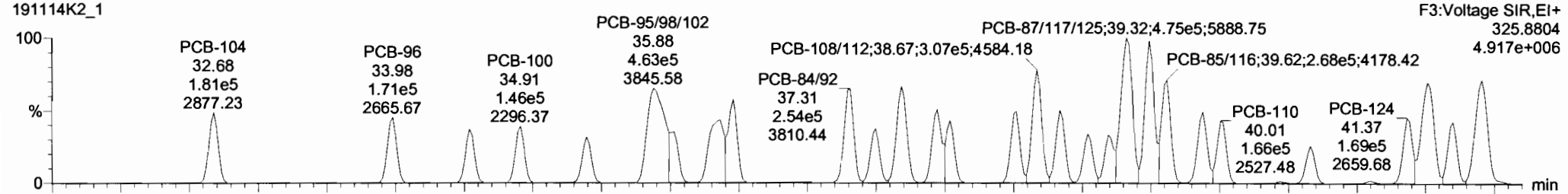
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Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

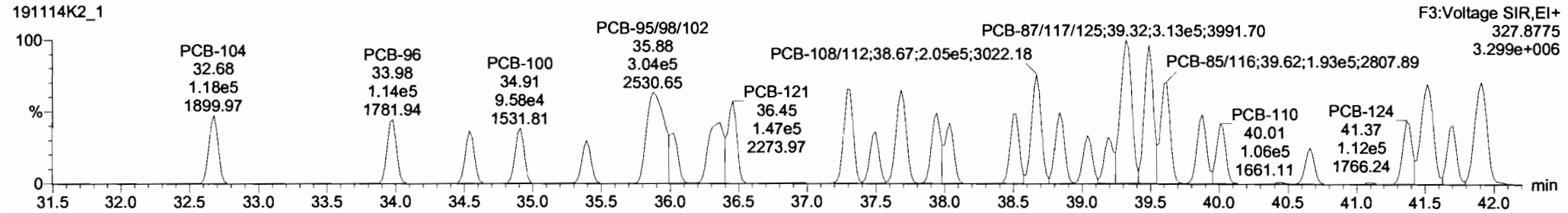
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PCB-104

191114K2\_1

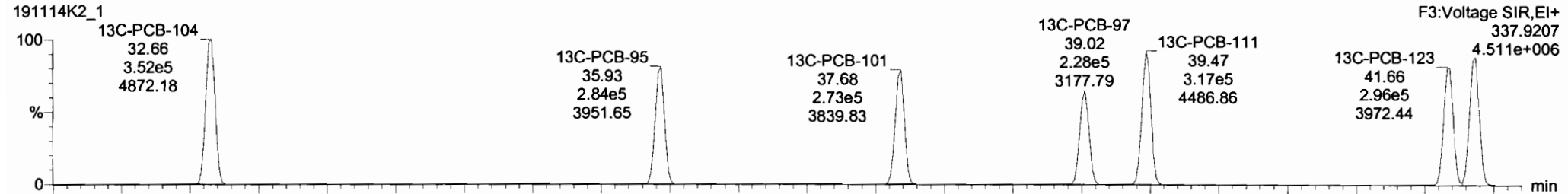


191114K2\_1

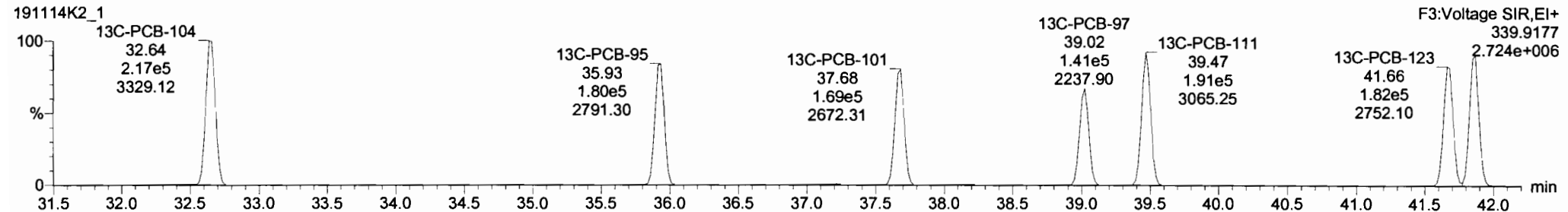


13C-PCB-104

191114K2\_1



191114K2\_1

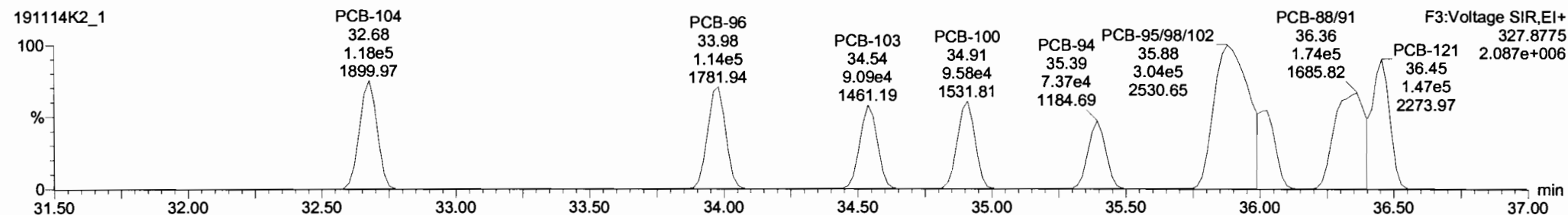
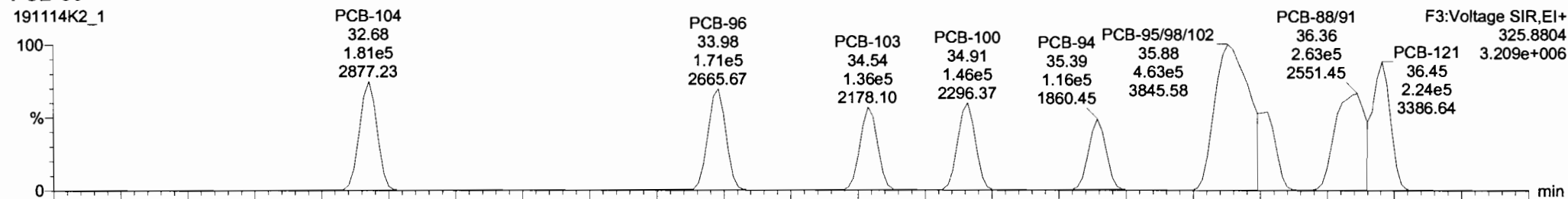


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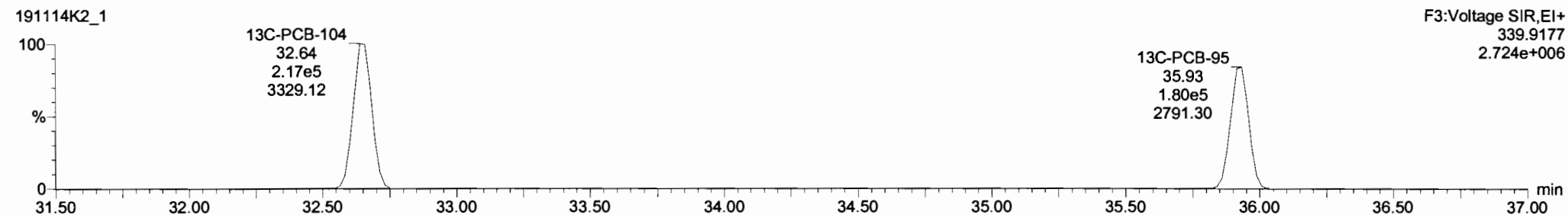
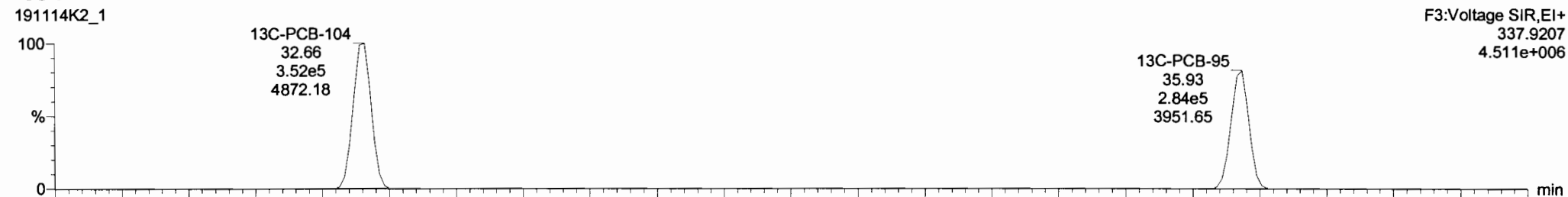
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Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-96**



**13C-PCB-95**



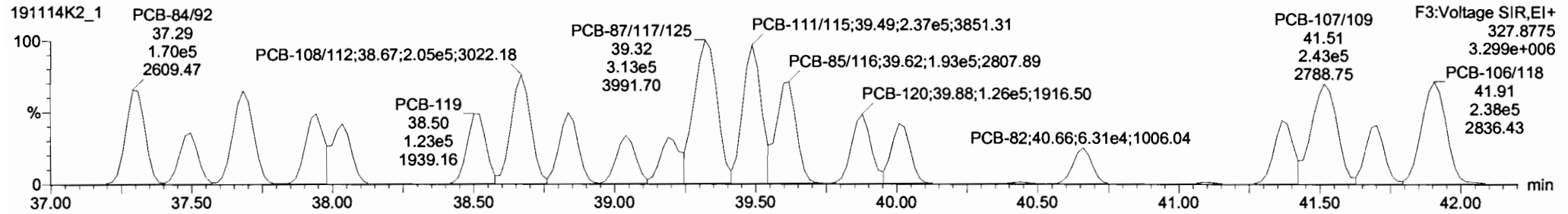
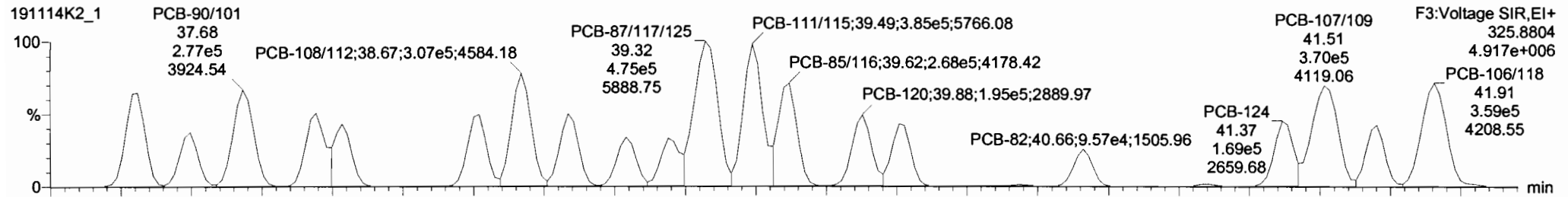
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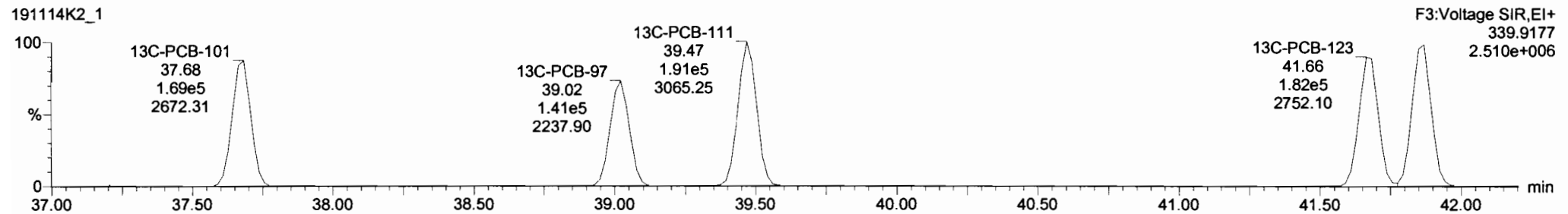
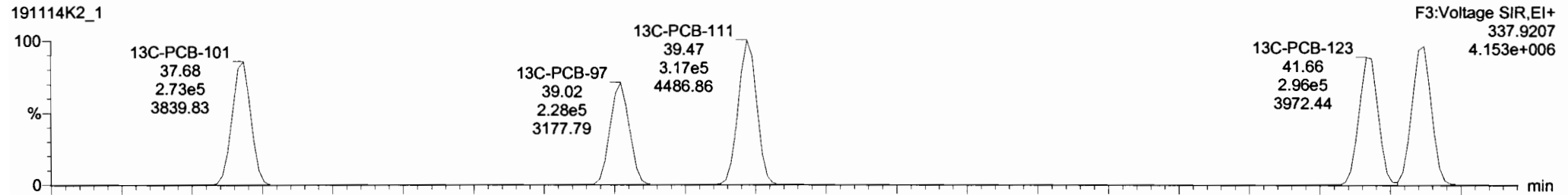
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PCB-119



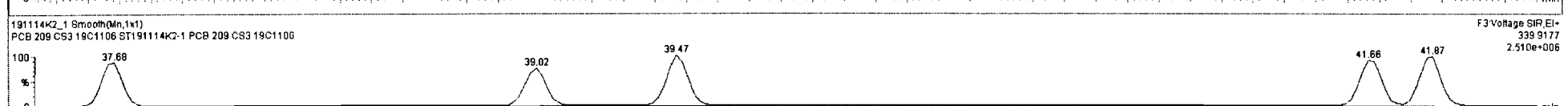
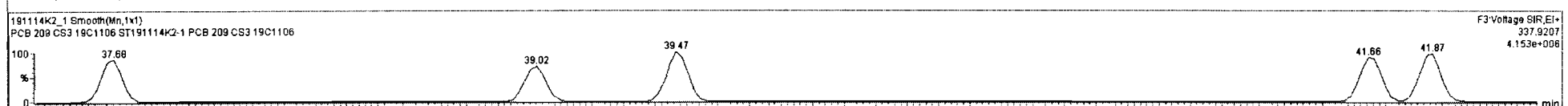
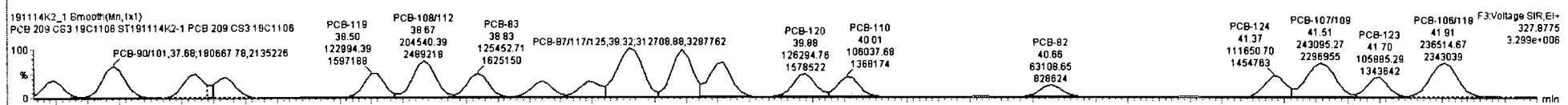
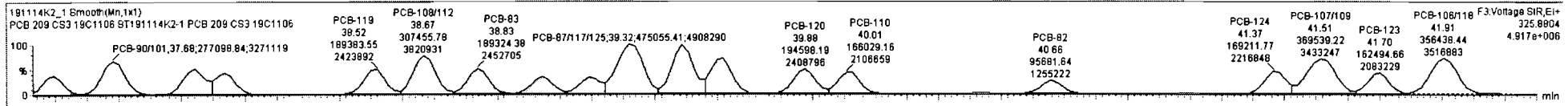
13C-PCB-111



191114K2\_1 ST191114K2-1 PCB 209 CS3 19C1106

#	Name	Resp	RA	nly	RRF	wl/wd	PredRT	RT	Pred.R...	RRT	RRT Fall	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	173.2	0.0420	173.2	
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	636.3	0.410	636.3	
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	443.0	0.173	443.0	
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	819.0	0.467	819.0	
228	228 Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	2231	1.19	2231	
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	2202	1.99	2202	
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	265.0	0.220	265.0	
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	713.5	0.279	713.5	
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	1464	0.998	1464	

#	Name	PredRT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	70 PCB-93	36.01	36.03	1.250e5	6.207e4	1.580	1.53	NO	53.213	53.213
2	69 PCB-95/98/102	35.88	35.88	4.827e5	3.041e5	1.580	1.52	NO	162.69	162.69
3	68 PCB-94	35.41	35.39	1.164e5	7.365e4	1.580	1.58	NO	52.910	52.910
4	67 PCB-100	34.95	34.91	1.455e5	9.579e4	1.580	1.52	NO	54.572	54.572
5	66 PCB-103	34.57	34.54	1.365e5	9.085e4	1.580	1.50	NO	51.624	51.624
6	65 PCB-96	34.00	33.98	1.709e5	1.141e5	1.580	1.50	NO	50.322	50.322
7	64 PCB-104	32.68	32.68	1.807e5	1.178e5	1.580	1.53	NO	52.784	52.784
8	65 PCB-85/116	39.61	39.62	2.677e5	1.932e5	1.580	1.38	NO	102.76	102.76
9	64 PCB-111/115	39.49	39.49	3.854e5	2.373e5	1.580	1.62	NO	105.44	105.44



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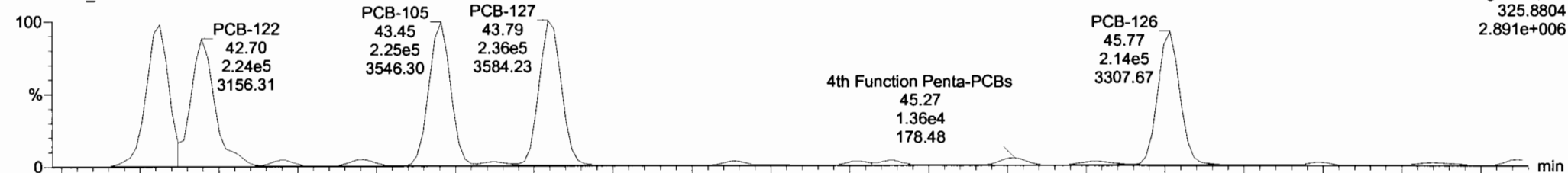
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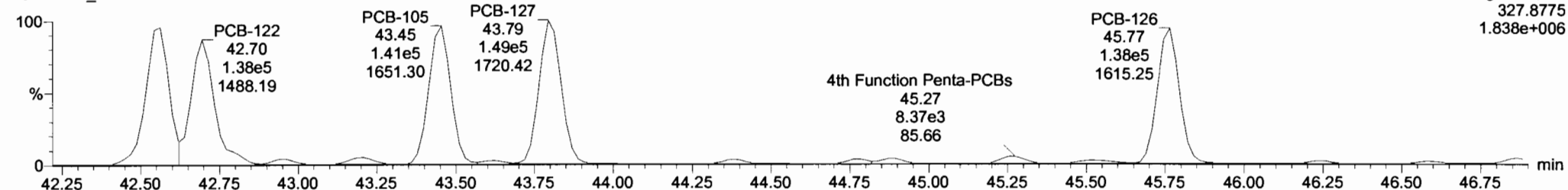
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**PCB-114**

191114K2\_1

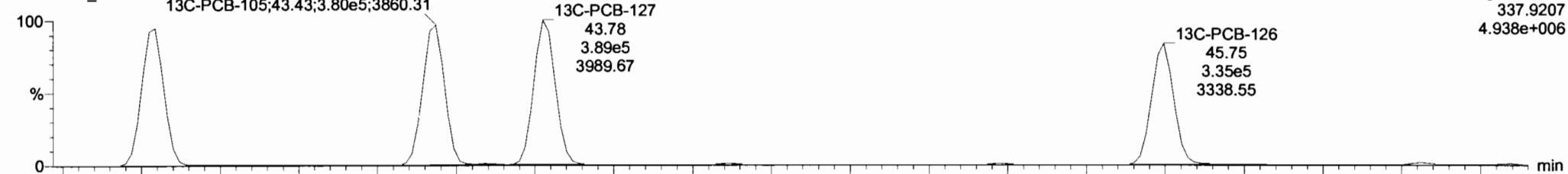


191114K2\_1

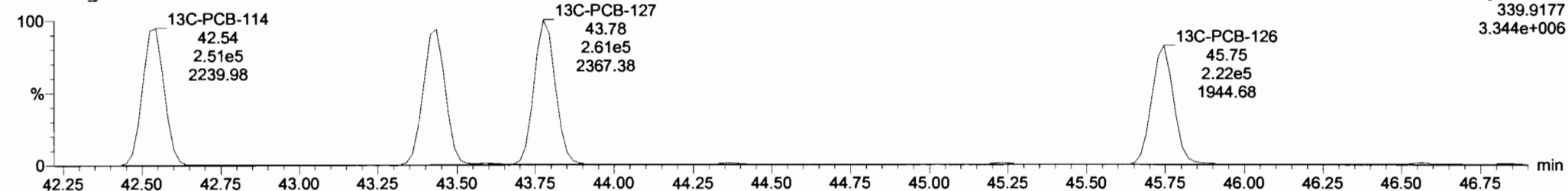


**13C-PCB-114**

191114K2\_1



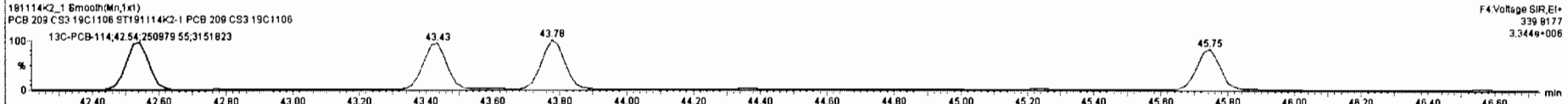
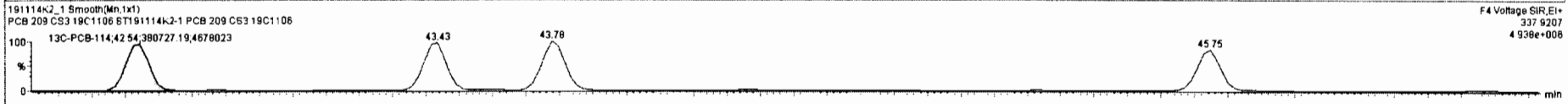
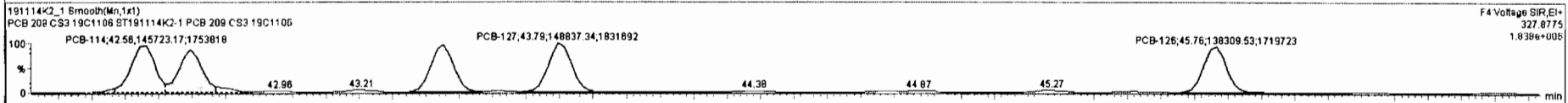
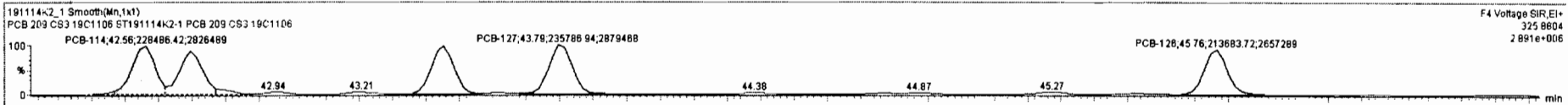
191114K2\_1





#	Name	Resp	RA	n/y	RPF	wtAve	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	173.2		0.0428	173.2
225	Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	638.3		0.410	638.3
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	443.0		0.173	443.0
227	3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	819.0		0.467	819.0
228	Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	2231		1.19	2231
229	3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	2202		1.59	2202
230	4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	283.9		0.220	283.9
231	3rd Function Hexa-PCBs				0.7738	1.000	0.00		0.000		NO	713.5		0.275	713.5
232	4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	1484		0.998	1484

#	Name	Pred RT	RT	int Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
96	PCB-127	43.79	43.78	2.358e5	1.488e5	1.580	1.58	NO	53.467	53.467
95	PCB-105	43.45	43.45	2.252e5	1.408e5	1.550	1.60	NO	52.556	52.556
94	PCB-122	42.89	42.70	2.075e5	1.288e5	1.560	1.61	NO	54.736	54.736
93	PCB-114	42.57	42.56	2.285e5	1.437e5	1.560	1.57	NO	50.998	50.998
97	PCB-126	45.76	45.76	2.137e5	1.383e5	1.560	1.54	NO	52.180	52.180



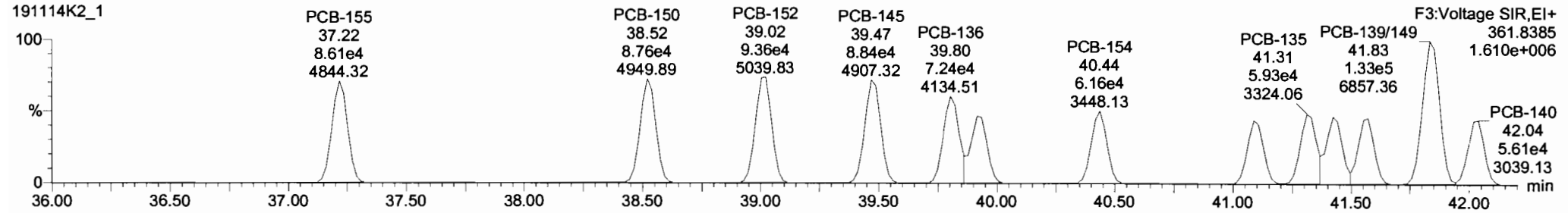
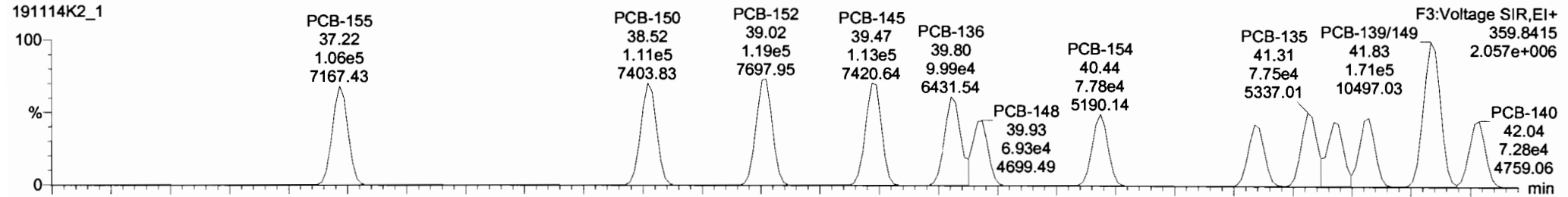
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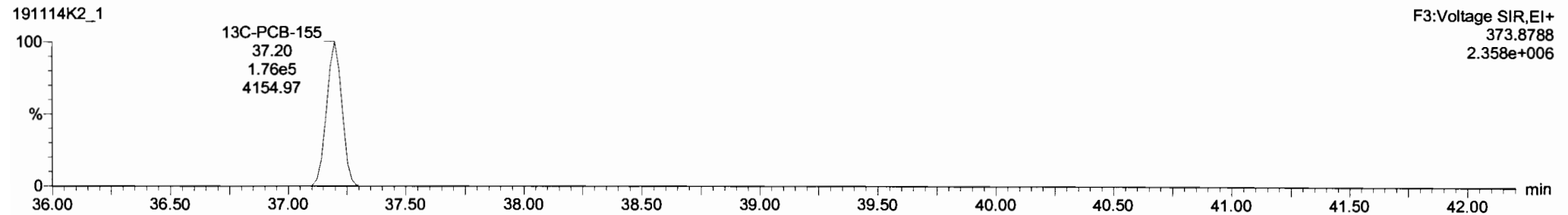
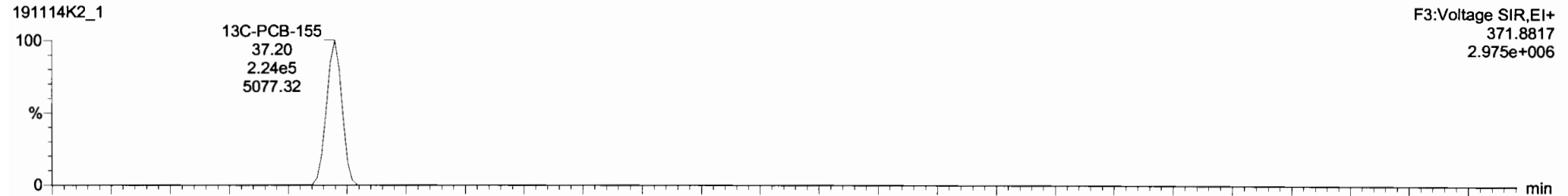
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Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-155**



**13C-PCB-155**

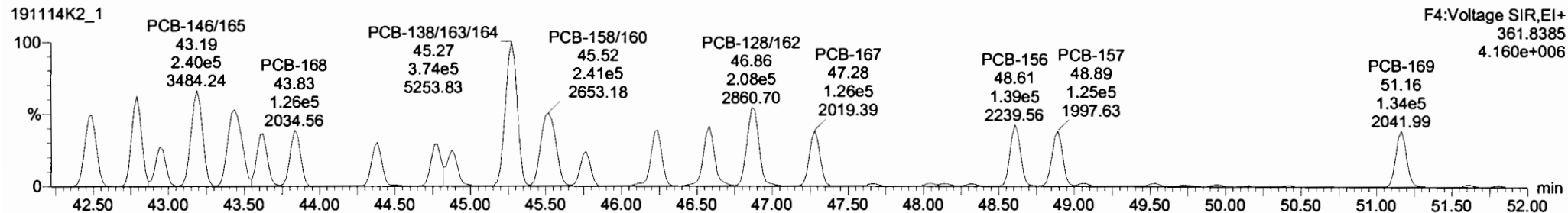
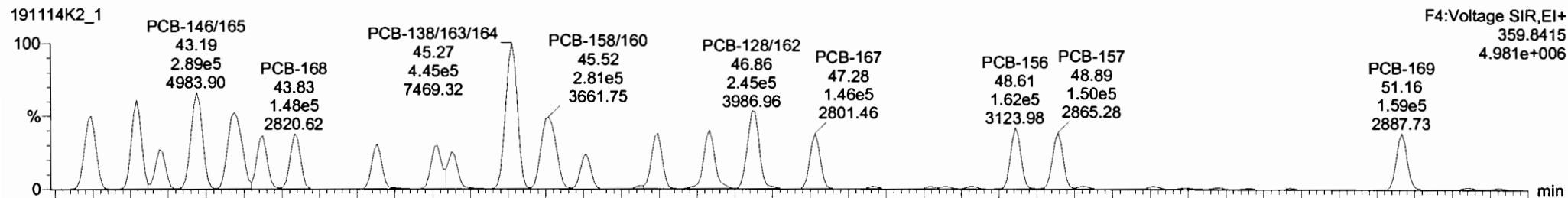


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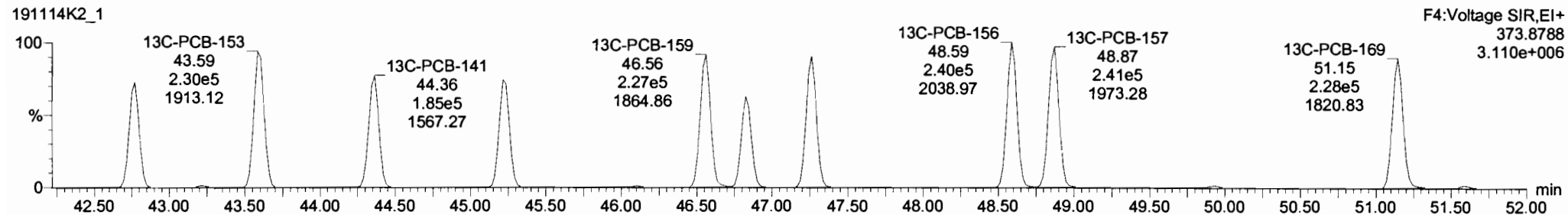
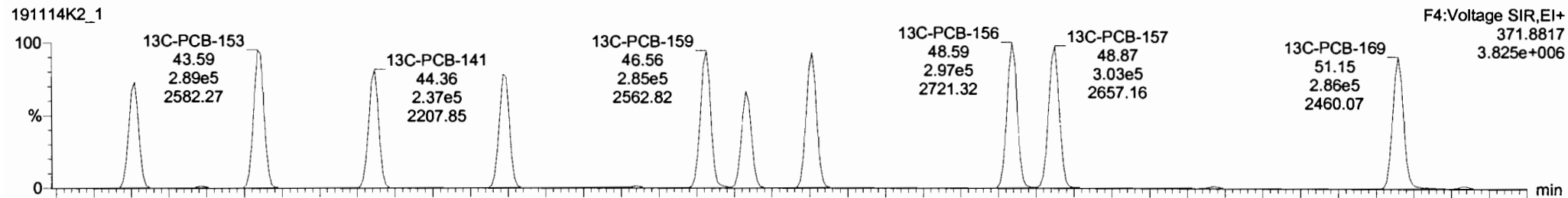
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PCB-134/143

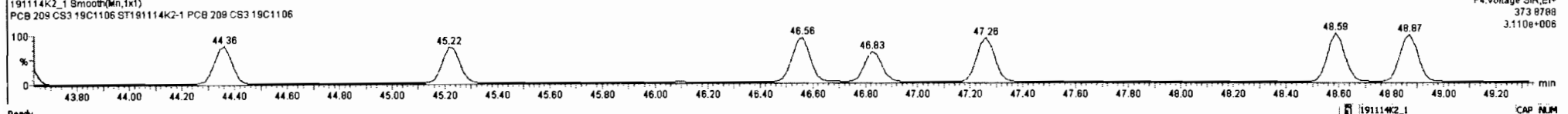
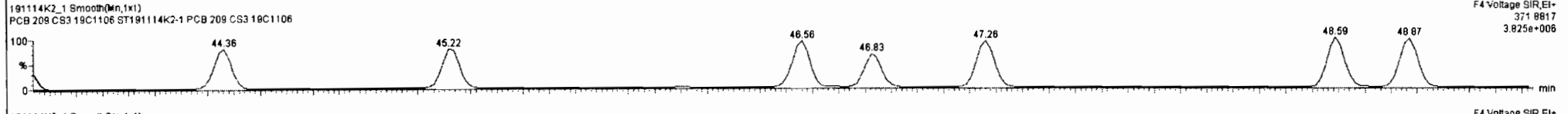
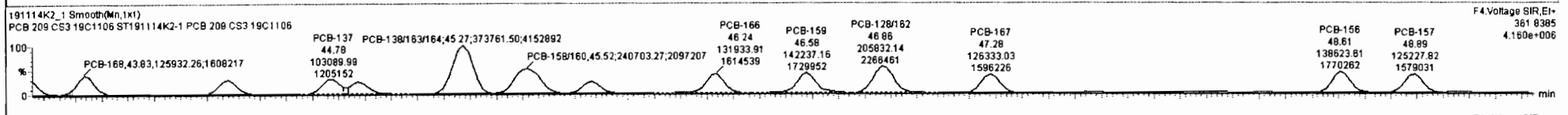
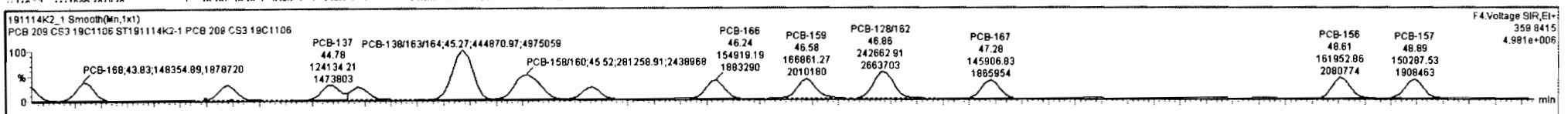


13C-PCB-153



#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	173.2		0.0429	173.2
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	636.3		0.410	636.3
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	443.0		0.173	443.0
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	819.0		0.467	819.0
228	228 Total Tetra-PCBs				0.9661	1.000	0.00		0.000		NO	2231		1.18	2231
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	2202		1.58	2202
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	263.9		0.220	263.9
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	713.5		0.279	713.5
232	232 4th Function Hexa-PCBs				0.8719	1.000	0.00		0.000		NO	1464		0.998	1464

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	120 PCB-130	44.88	44.86	9.161e4	7.400e4	1.240	1.24	NO	46.705	46.705
2	119 PCB-137	44.76	44.78	1.241e5	1.031e5	1.240	1.20	NO	54.533	54.533
3	118 PCB-141	44.38	44.36	1.175e5	9.700e4	1.240	1.21	NO	52.565	52.565
4	117 PCB-168	43.83	43.83	1.484e5	1.259e5	1.240	1.18	NO	51.835	51.835
5	116 PCB-153	43.60	43.62	1.455e5	1.216e5	1.240	1.20	NO	50.837	50.837
6	115 PCB-132/161	43.42	43.44	2.879e5	2.422e5	1.240	1.19	NO	104.81	104.81
7	114 PCB-146/165	43.19	43.19	2.893e5	2.402e5	1.240	1.20	NO	106.33	106.33
8	113 PCB-142	42.93	42.94	1.065e5	8.963e4	1.240	1.19	NO	53.354	53.354
9	112 PCB-131/133	42.78	42.78	2.325e5	1.977e5	1.240	1.18	NO	104.89	104.89

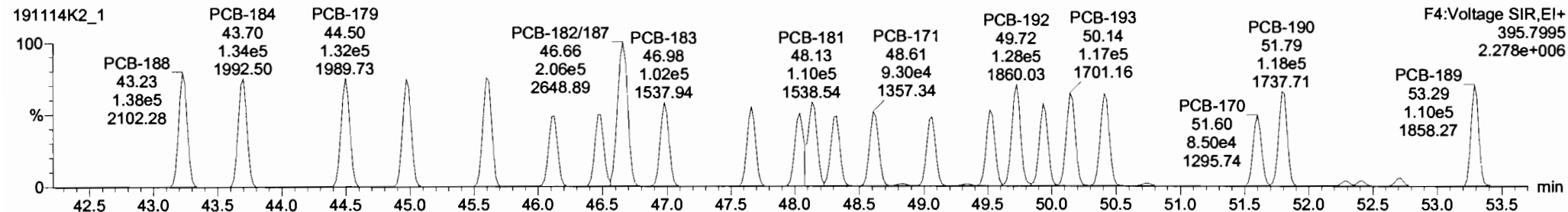
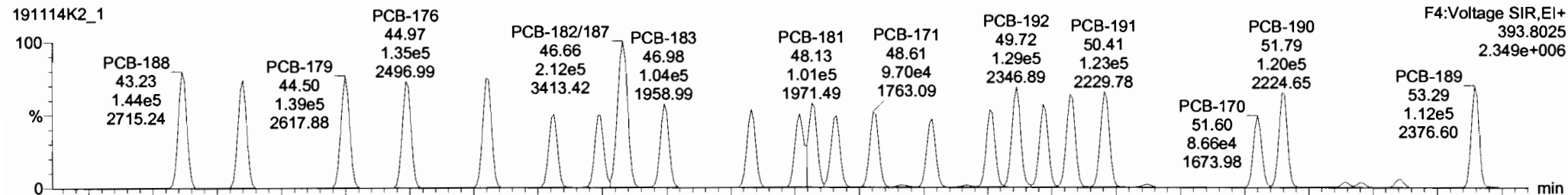


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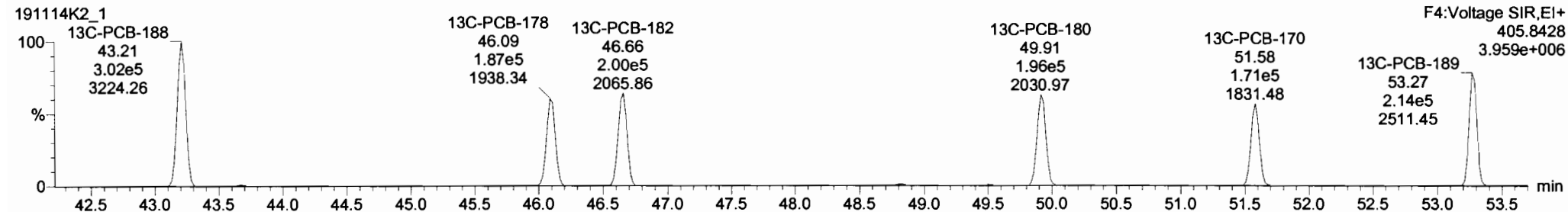
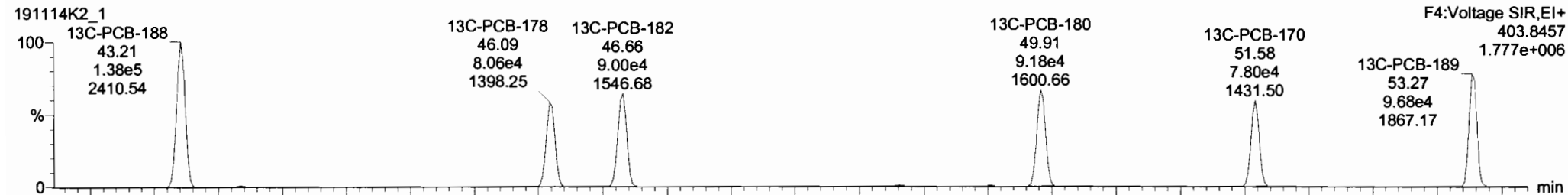
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Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-188**



**13C-PCB-188**



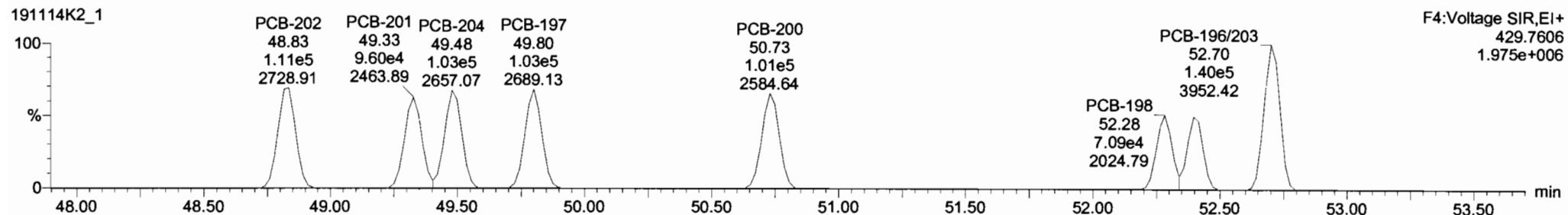
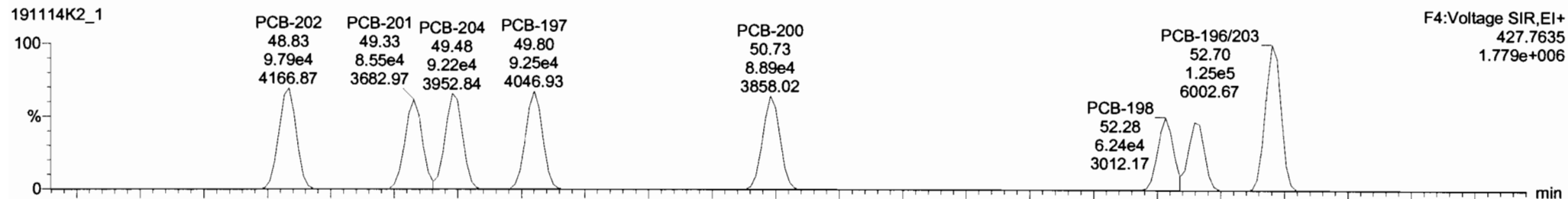
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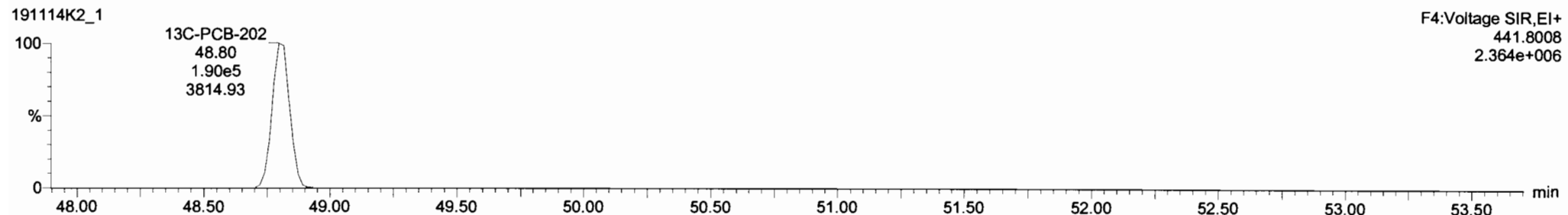
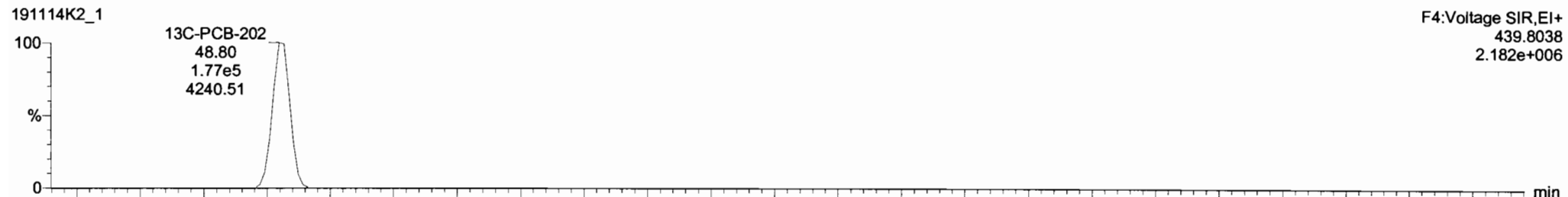
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**PCB-202**



**13C-PCB-202**



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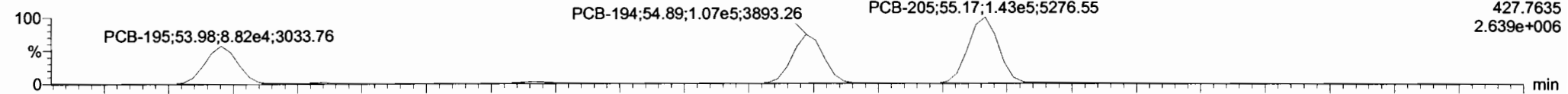
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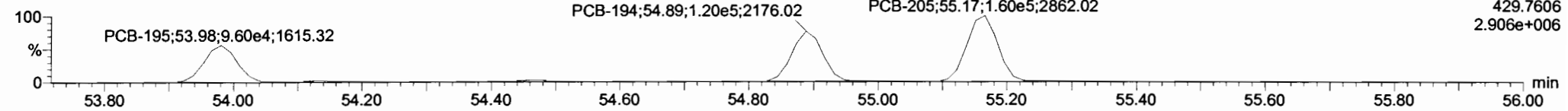
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**PCB-195**

191114K2\_1

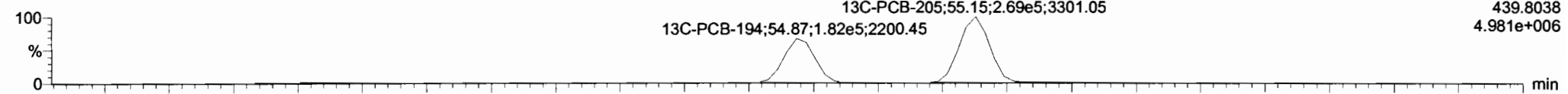


191114K2\_1

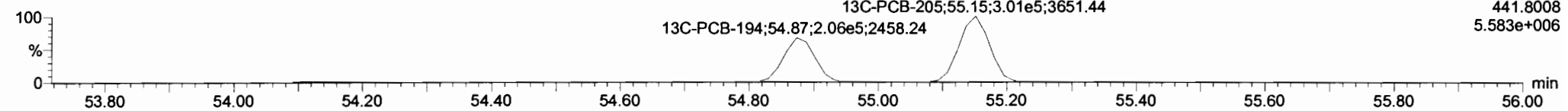


**13C-PCB-194**

191114K2\_1

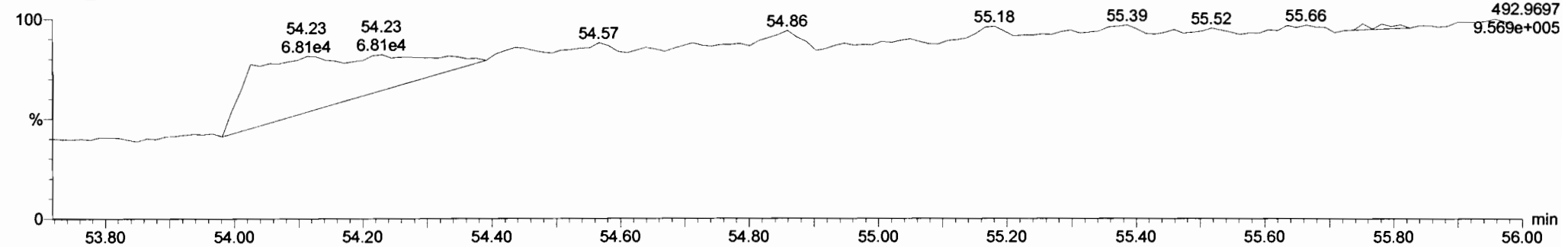


191114K2\_1



**PFK5**

191114K2\_1



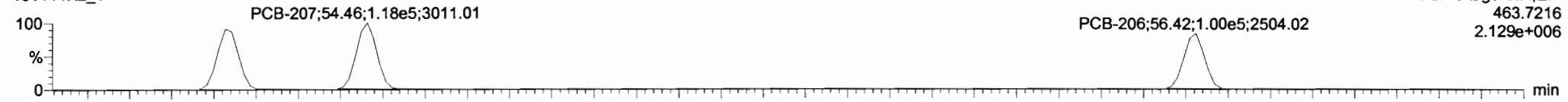
Dataset: Untitled

Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time  
Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

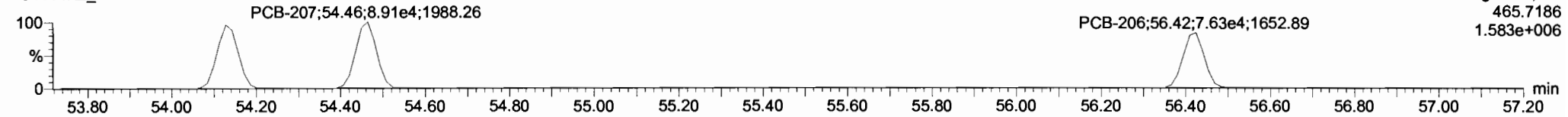
Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-208**

191114K2\_1

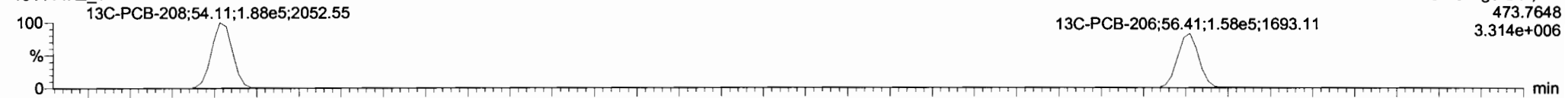


191114K2\_1

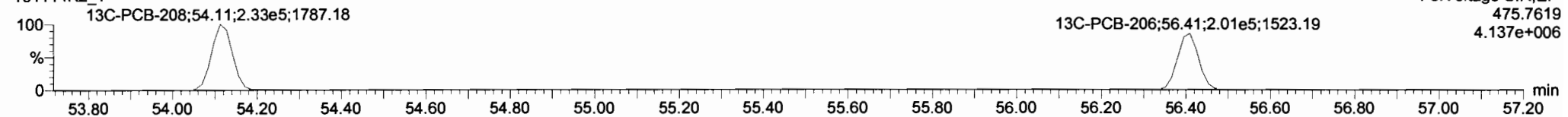


**13C-PCB-208**

191114K2\_1

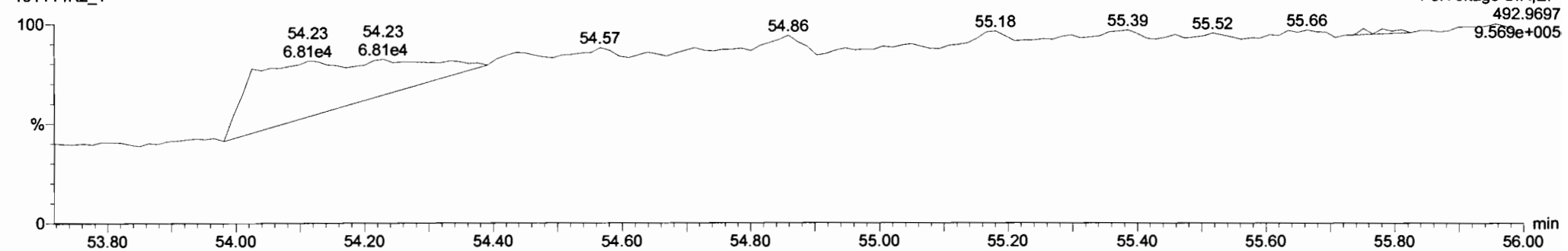


191114K2\_1



**PFK5**

191114K2\_1





Dataset: Untitled

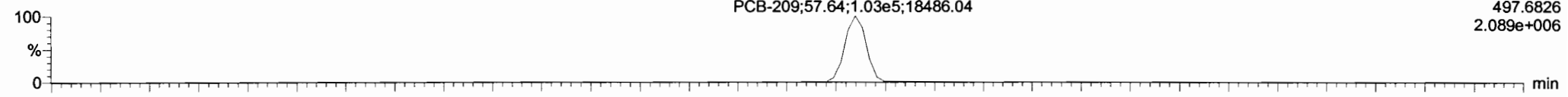
Last Altered: Friday, November 15, 2019 07:12:32 Pacific Standard Time

Printed: Friday, November 15, 2019 07:14:21 Pacific Standard Time

Name: 191114K2\_1, Date: 14-Nov-2019, Time: 16:05:20, ID: ST191114K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

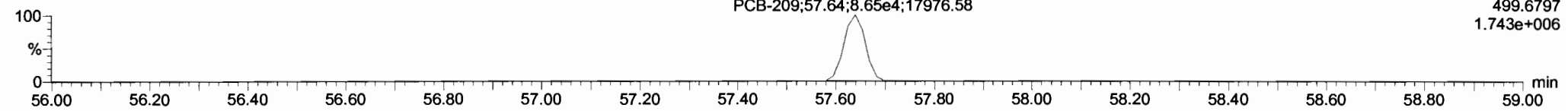
**PCB-209**

191114K2\_1



F5:Voltage SIR,EI+  
497.6826  
2.089e+006

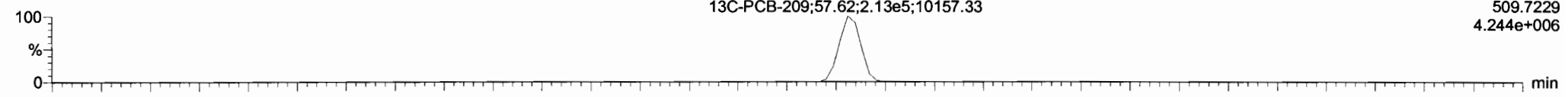
191114K2\_1



F5:Voltage SIR,EI+  
499.6797  
1.743e+006

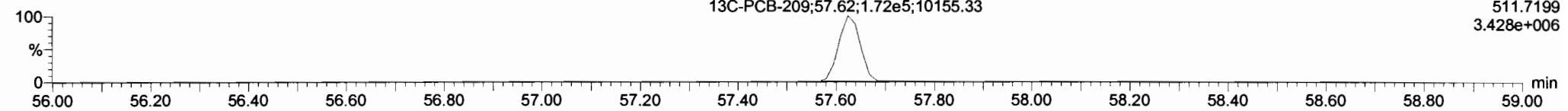
**13C-PCB-209**

191114K2\_1



F5:Voltage SIR,EI+  
509.7229  
4.244e+006

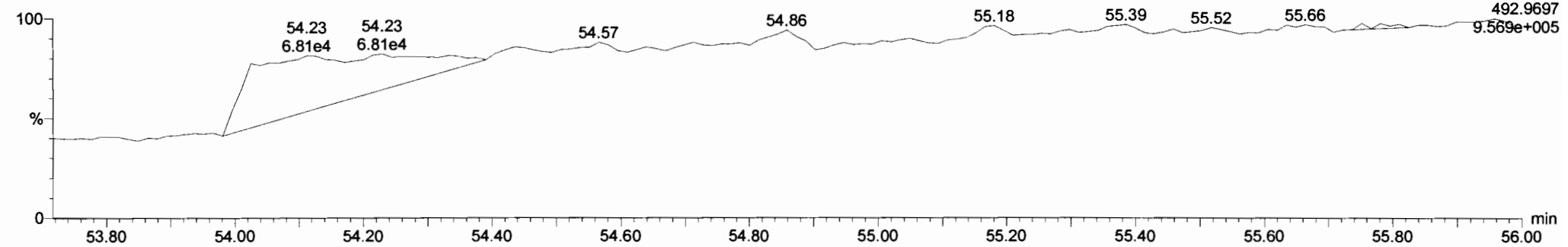
191114K2\_1



F5:Voltage SIR,EI+  
511.7199  
3.428e+006

**PFK5**

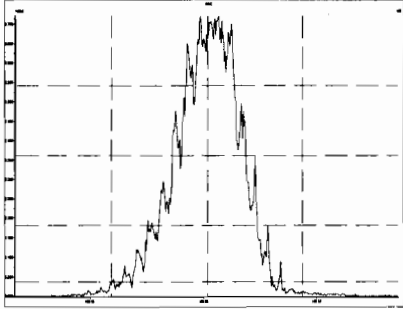
191114K2\_1



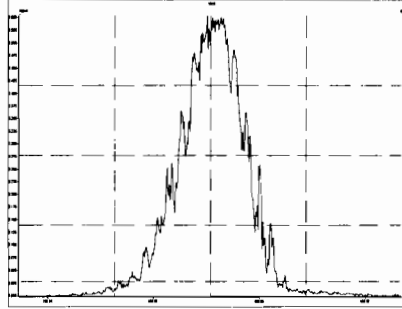
F5:Voltage SIR,EI+  
492.9697  
9.569e+005

Ⓟ did not centroid

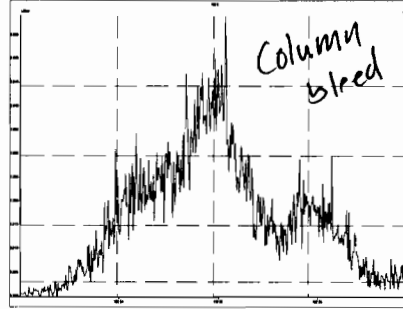
M 168.9888 R 13283



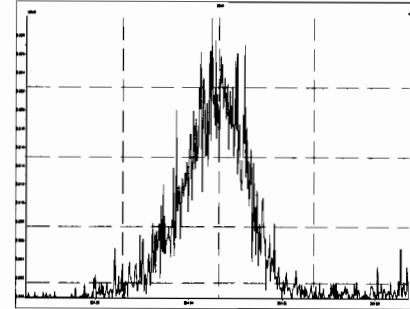
M 180.9888 R 12821



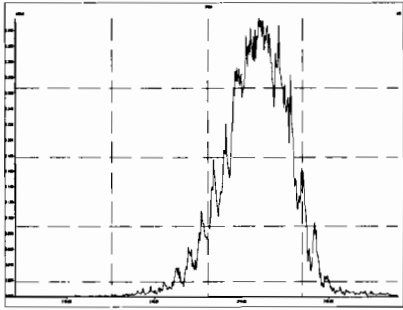
M 192.9888 R 6203



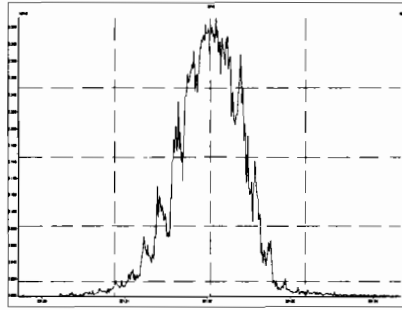
M 204.9888 R 14894



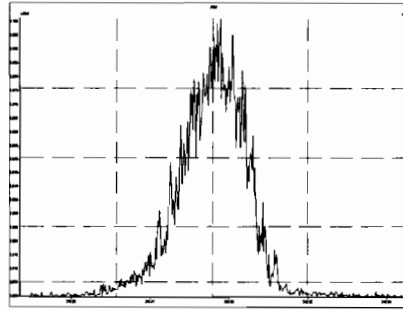
M 218.9856 R 103102



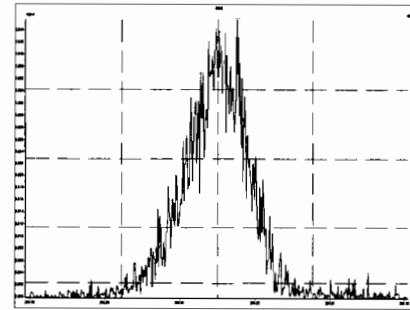
M 230.9856 R 13303



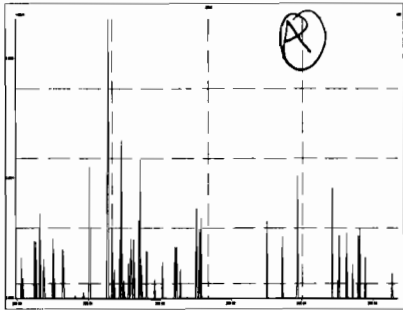
M 242.9856 R 14398



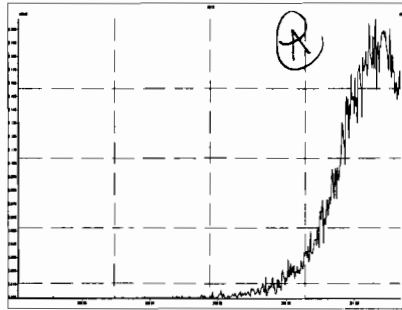
M 254.9856 R 15723



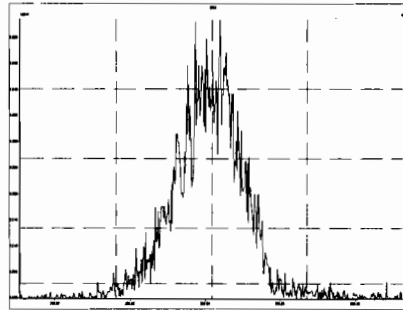
M 268.9824 R 321975



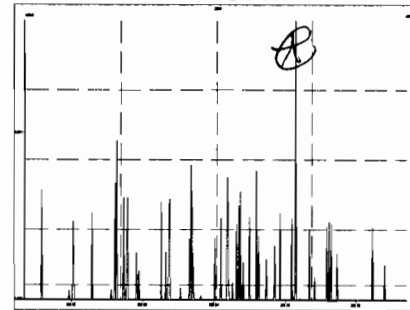
M 280.9824 R 357171



M 254.9856 R 13635

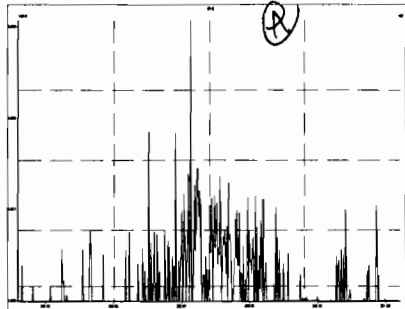


M 268.9824 R 119047

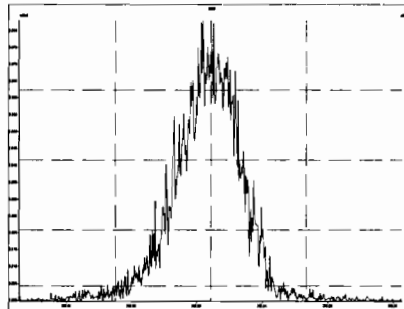


Printed: Friday, November 15, 2019 03:30:04 Pacific Standard Time

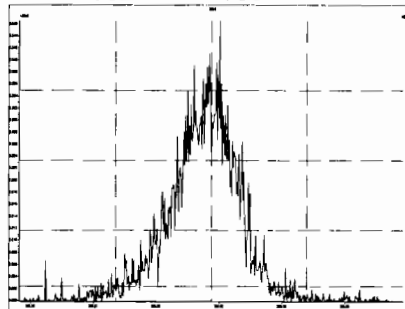
M 280.9824 R 292206



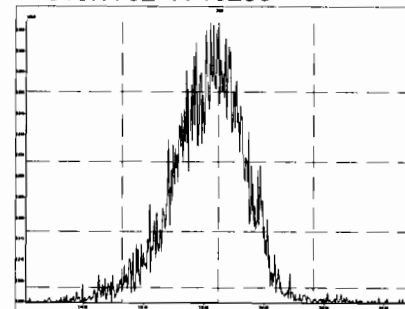
M 292.9824 R 13966



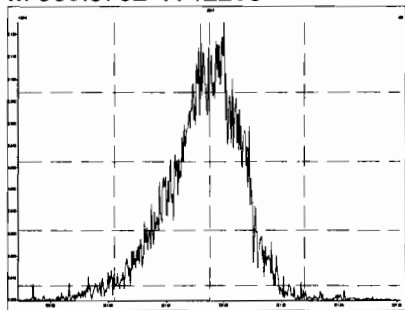
M 304.9824 R 14088



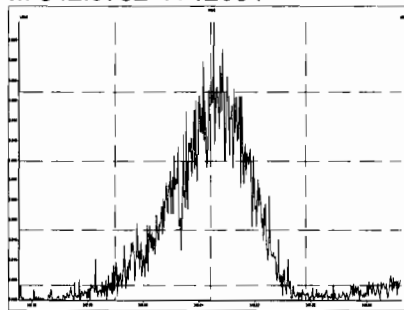
M 318.9792 R 13236



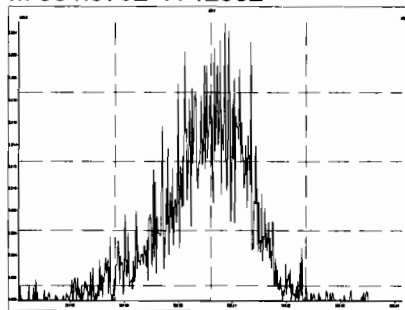
M 330.9792 R 12255



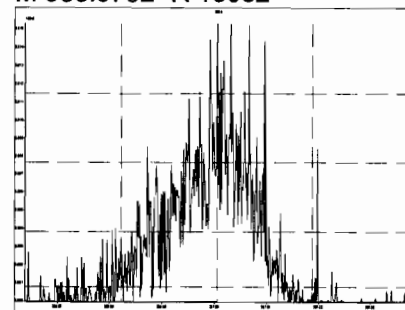
M 342.9792 R 12084



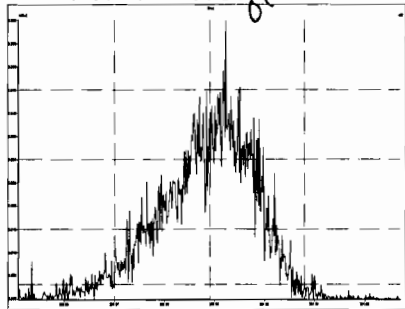
M 354.9792 R 12982



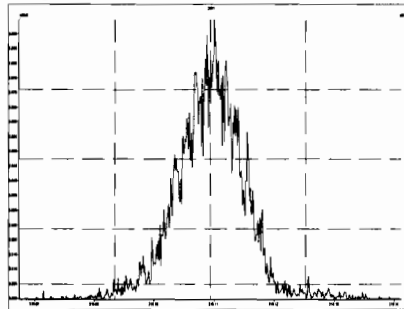
M 366.9792 R 16052



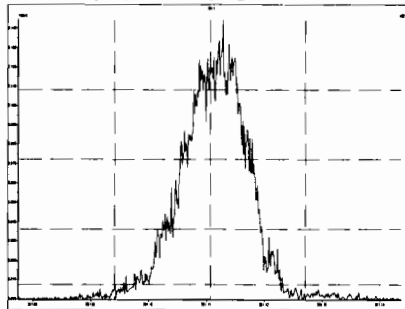
M 380.9760 R 9785 ✓



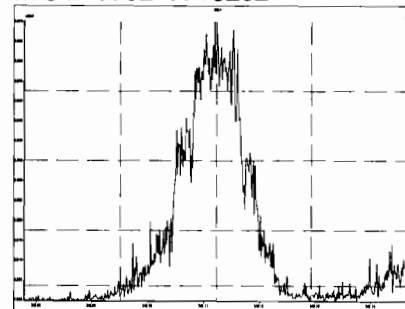
M 318.9792 R 13736



M 330.9792 R 13481

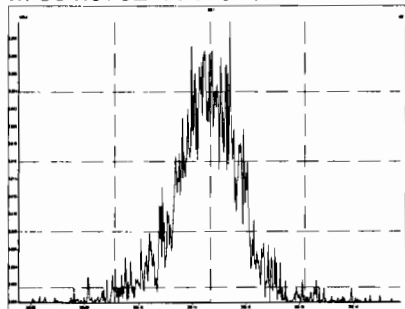


M 342.9792 R 13262

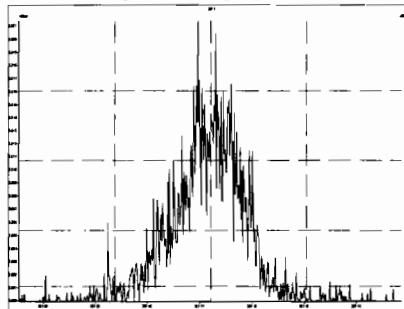


Printed: Friday, November 15, 2019 03:30:04 Pacific Standard Time

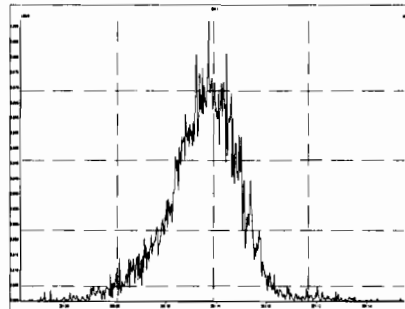
M 354.9792 R 14928



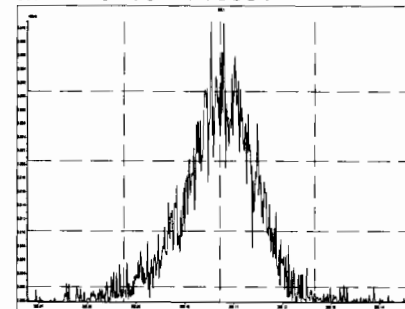
M 366.9792 R 15943



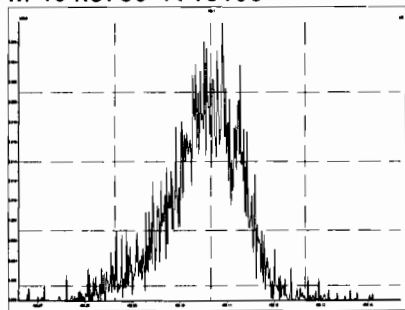
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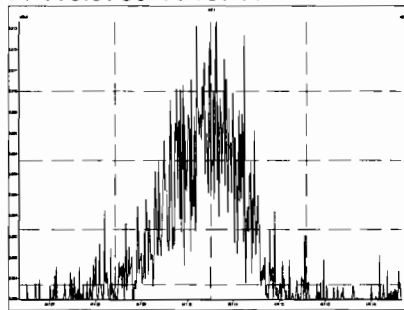
M 392.9760 R 13851



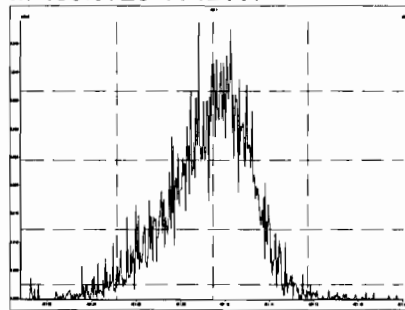
M 404.9760 R 15106



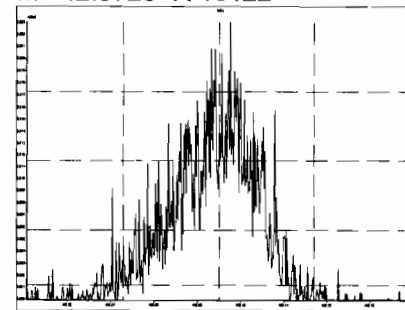
M 416.9760 R 15741



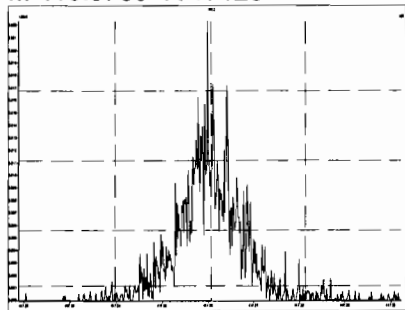
M 430.9728 R 12607



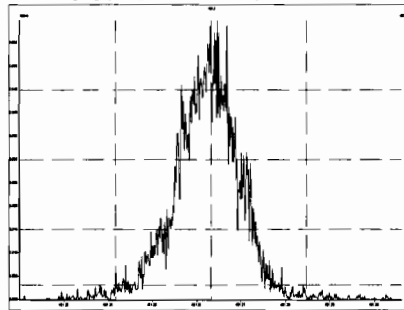
M 442.9728 R 13122



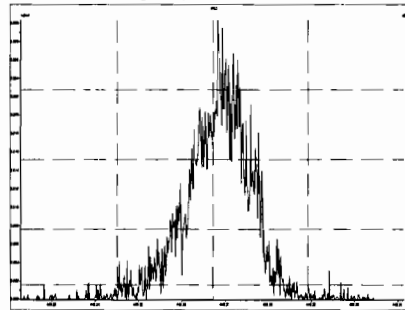
M 416.9760 R 17126



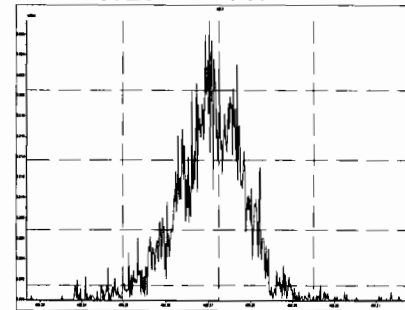
M 430.9728 R 15128



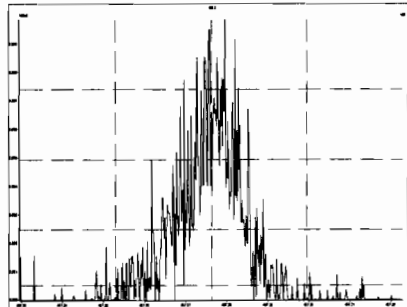
M 442.9728 R 16364



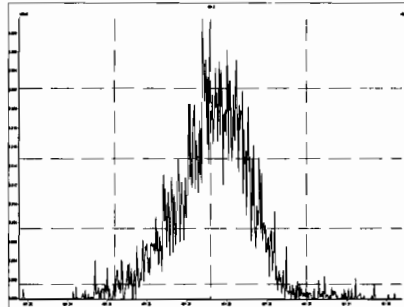
M 454.9728 R 14767



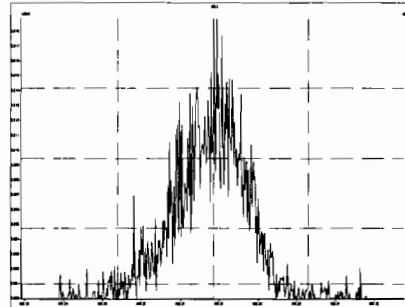
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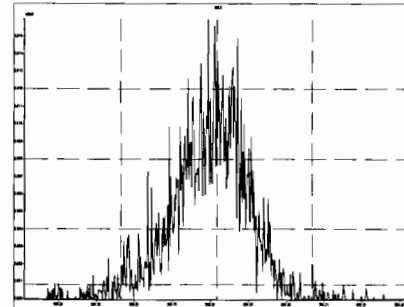
M 480.9696 R 13892



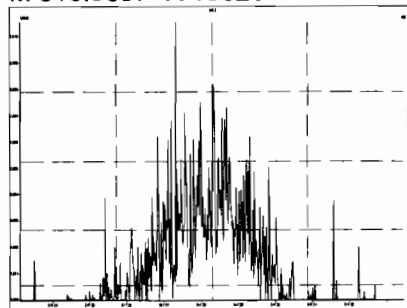
M 492.9696 R 15486



M 504.9696 R 15218



M 516.9697 R 19526



PKMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST19 11/16/12-1

Reviewed By: EL 11/18/19

Initials & Date

End Calibration ID: NA

	Beg.	End
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input type="checkbox"/> NK	<input type="checkbox"/>
First and last eluters present?	<input type="checkbox"/> NK	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<input checked="" type="checkbox"/> HZ	<input type="checkbox"/>
<u>Run Log:</u>		
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> (Y)	<input type="checkbox"/> N
- Bottle position verified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

	Beg.	End
Mass resolution ≥	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614    1699    429    1613/1668/8280	<input checked="" type="checkbox"/>	<input type="checkbox"/> NK
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NK
GC Break <20%	<input type="checkbox"/>	<input type="checkbox"/> NA
8280 CS1 End Standard:		<input type="checkbox"/> NK
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NK

**Comments:**  
 (A) some masses affected by column bleed. Others did not centroid.

Dataset: U:\VG11.PRO\Results\191116K2\191116K2-2.qld

Last Altered: Monday, November 18, 2019 07:08:06 Pacific Standard Time

Printed: Monday, November 18, 2019 08:44:24 Pacific Standard Time

HL 11-18-19 EL 11-18-19

Method: Untitled 14 Nov 2019 15:03:40

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	1.28e6	3.09	NO	1.02	1.000	15.66	15.67	1.001	1.002	NO	58.93	118	0.00854	58.93
2	2 PCB-2	1.20e6	3.10	NO	1.01	1.000	18.10	18.10	0.988	0.988	NO	57.53	115	0.00934	57.53
3	3 PCB-3	1.23e6	3.11	NO	1.01	1.000	18.33	18.34	1.001	1.001	NO	59.26	119	0.00936	59.26
4	4 PCB-4/10	1.89e6	1.58	NO	1.28	1.000	19.75	19.75	1.004	1.004	NO	105.1	105	0.0283	105.1
5	5 PCB-7/9	2.28e6	1.58	NO	0.976	1.000	21.57	21.57	1.003	1.003	NO	104.6	105	0.0240	104.6
6	6 PCB-6	1.18e6	1.60	NO	1.02	1.000	22.22	22.22	1.033	1.033	NO	51.84	104	0.0231	51.84
7	7 PCB-5/8	2.35e6	1.58	NO	1.01	1.000	22.63	22.63	1.052	1.052	NO	104.1	104	0.0232	104.1
8	8 PCB-14	1.17e6	1.61	NO	1.03	1.000	23.78	23.78	0.952	0.952	NO	53.35	107	0.0259	53.35
9	9 PCB-11	1.23e6	1.59	NO	1.10	1.000	25.00	25.01	1.001	1.001	NO	52.87	106	0.0244	52.87
10	10 PCB-12/13	2.27e6	1.59	NO	1.04	1.000	25.44	25.38	1.018	1.016	NO	103.6	104	0.0258	103.6
11	11 PCB-15	1.14e6	1.57	NO	1.03	1.000	25.74	25.73	1.030	1.030	NO	52.38	105	0.0260	52.38
12	12 PCB-19	5.56e5	1.01	NO	0.934	1.000	23.95	23.94	1.001	1.001	NO	56.88	114	0.0170	56.88
13	13 PCB-30	8.82e5	1.00	NO	1.48	1.000	24.88	24.87	1.040	1.040	NO	56.93	114	0.0107	56.94
14	14 PCB-18	5.79e5	0.98	NO	0.693	1.000	25.62	25.64	0.951	0.952	NO	53.46	107	0.0160	53.46
15	15 PCB-17	5.53e5	0.97	NO	0.667	1.000	25.80	25.82	0.958	0.959	NO	53.09	106	0.0166	53.09
16	16 PCB-24/27	1.60e6	0.96	NO	0.915	1.000	26.42	26.41	0.981	0.981	NO	112.3	112	0.0121	112.3
17	17 PCB-16/32	1.38e6	0.99	NO	0.792	1.000	26.95	26.94	1.001	1.001	NO	111.8	112	0.0140	111.8
18	18 PCB-34	9.89e5	1.06	NO	0.987	1.000	27.76	27.76	0.959	0.959	NO	53.44	107	0.0257	53.44
19	19 PCB-23	9.09e5	1.08	NO	0.974	1.000	27.86	27.86	0.962	0.962	NO	49.83	99.7	0.0261	49.83
20	20 PCB-29	9.10e5	1.06	NO	0.953	1.000	28.10	28.12	0.970	0.971	NO	50.92	102	0.0266	50.92
21	21 PCB-26	9.35e5	1.06	NO	1.00	1.000	28.35	28.34	0.979	0.979	NO	49.84	99.7	0.0254	49.84
22	22 PCB-25	9.66e5	1.05	NO	0.978	1.000	28.49	28.51	0.984	0.985	NO	52.74	105	0.0260	52.73
23	23 PCB-31	1.03e6	1.08	NO	1.12	1.000	28.88	28.86	0.998	0.997	NO	49.11	98.2	0.0226	49.11
24	24 PCB-28	1.09e6	1.06	NO	1.11	1.000	28.97	28.97	1.001	1.001	NO	52.72	105	0.0230	52.72
25	25 PCB-20/21/33	2.95e6	1.06	NO	1.00	1.000	29.62	29.60	1.023	1.023	NO	157.1	105	0.0253	157.1
26	26 PCB-22	1.03e6	1.05	NO	1.03	1.000	30.07	30.07	1.039	1.039	NO	53.39	107	0.0246	53.39
27	27 PCB-36	1.01e6	1.05	NO	1.18	1.000	30.70	30.70	0.932	0.932	NO	52.35	105	0.0262	52.35
28	28 PCB-39	8.95e5	1.07	NO	1.08	1.000	31.19	31.20	0.947	0.947	NO	50.13	100	0.0284	50.13
29	29 PCB-38	9.98e5	1.07	NO	1.13	1.000	32.00	31.99	0.971	0.971	NO	53.70	107	0.0273	53.70
30	30 PCB-35	9.56e5	1.06	NO	1.13	1.000	32.52	32.53	0.987	0.987	NO	51.29	103	0.0272	51.29
31	31 PCB-37	9.88e5	1.08	NO	1.11	1.000	32.99	32.99	1.001	1.001	NO	54.27	109	0.0279	54.27
32	32 PCB-54	7.45e5	0.74	NO	0.996	1.000	27.80	27.80	1.001	1.001	NO	54.21	108	0.0194	54.22

Dataset: U:\VG11.PRO\Results\191116K2\191116K2-2.qld

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50	5.72e5	0.73	NO	0.781	1.000	29.04	29.01	1.045	1.044	NO	53.00	106	0.0248	53.00
34	34 PCB-53	5.31e5	0.74	NO	0.955	1.000	29.70	29.68	0.944	0.944	NO	53.98	108	0.0276	53.98
35	35 PCB-51	5.94e5	0.72	NO	1.02	1.000	30.02	30.03	0.955	0.955	NO	56.30	113	0.0257	56.30
36	36 PCB-45	4.44e5	0.73	NO	0.808	1.000	30.46	30.48	0.969	0.969	NO	53.33	107	0.0326	53.33
37	37 PCB-46	4.16e5	0.74	NO	0.754	1.000	30.98	30.98	0.985	0.985	NO	53.62	107	0.0349	53.62
38	38 PCB-52/69	1.24e6	0.74	NO	1.09	1.000	31.49	31.49	1.001	1.001	NO	110.2	110	0.0241	110.2
39	39 PCB-73	7.06e5	0.75	NO	1.29	1.000	31.61	31.60	1.005	1.005	NO	53.10	106	0.0204	53.10
40	40 PCB-43/49	1.03e6	0.74	NO	0.940	1.000	31.77	31.78	1.010	1.011	NO	106.2	106	0.0280	106.2
41	41 PCB-47	5.26e5	0.72	NO	0.869	1.000	31.99	31.99	1.001	1.001	NO	55.93	112	0.0286	55.93
42	42 PCB-48/75	1.19e6	0.73	NO	1.02	1.000	32.10	32.10	1.004	1.004	NO	107.7	108	0.0243	107.7
43	43 PCB-65	6.70e5	0.74	NO	1.11	1.000	32.37	32.38	1.013	1.013	NO	55.83	112	0.0224	55.83
44	44 PCB-62	6.27e5	0.74	NO	1.07	1.000	32.48	32.49	1.016	1.016	NO	54.35	109	0.0234	54.34
45	45 PCB-44	4.36e5	0.73	NO	0.761	1.000	32.82	32.81	1.027	1.026	NO	52.94	106	0.0327	52.94
46	46 PCB-42/59	1.15e6	0.74	NO	0.960	1.000	33.04	33.05	1.033	1.034	NO	110.2	110	0.0259	110.2
47	47 PCB-41/64/71/72	2.59e6	0.73	NO	1.08	1.000	33.66	33.66	1.053	1.053	NO	221.4	111	0.0230	221.4
48	48 PCB-68	6.67e5	0.73	NO	1.11	1.000	33.92	33.92	1.061	1.061	NO	55.56	111	0.0224	55.56
49	49 PCB-40	3.19e5	0.72	NO	0.577	1.000	34.17	34.15	1.069	1.068	NO	51.10	102	0.0431	51.10
50	50 PCB-57	7.13e5	0.73	NO	1.05	1.000	34.50	34.52	0.969	0.969	NO	55.66	111	0.0221	55.66
51	51 PCB-67	6.50e5	0.74	NO	0.993	1.000	34.82	34.83	0.978	0.978	NO	53.49	107	0.0233	53.49
52	52 PCB-58	7.33e5	0.74	NO	1.11	1.000	34.95	34.95	0.981	0.981	NO	53.91	108	0.0208	53.91
53	53 PCB-63	6.52e5	0.74	NO	0.962	1.000	35.11	35.11	0.986	0.986	NO	55.38	111	0.0241	55.38
54	54 PCB-74	7.27e5	0.74	NO	1.07	1.000	35.42	35.41	0.994	0.994	NO	55.75	111	0.0218	55.75
55	55 PCB-61/70	1.34e6	0.73	NO	0.986	1.000	35.63	35.63	1.000	1.000	NO	111.5	111	0.0235	111.5
56	56 PCB-76/66	1.45e6	0.74	NO	1.07	1.000	35.79	35.84	1.005	1.006	NO	111.3	111	0.0217	111.3
57	57 PCB-80	7.61e5	0.74	NO	1.08	1.000	36.06	36.06	1.001	1.000	NO	54.68	109	0.0206	54.68
58	58 PCB-55	7.47e5	0.73	NO	1.07	1.000	36.39	36.40	1.010	1.010	NO	54.42	109	0.0209	54.42
59	59 PCB-56/60	1.32e6	0.73	NO	0.934	1.000	36.88	36.90	1.023	1.024	NO	109.8	110	0.0239	109.8
60	60 PCB-79	7.23e5	0.73	NO	1.04	1.000	38.01	38.02	1.054	1.055	NO	53.88	108	0.0214	53.88
61	61 PCB-78	6.78e5	0.71	NO	1.03	1.000	38.74	38.74	0.987	0.987	NO	54.94	110	0.0243	54.94
62	62 PCB-81	6.15e5	0.74	NO	0.933	1.000	39.28	39.28	1.000	1.000	NO	55.07	110	0.0269	55.07
63	63 PCB-77	6.68e5	0.74	NO	1.03	1.000	39.90	39.90	1.000	1.000	NO	55.14	110	0.0247	55.14
64	64 PCB-104	5.26e5	1.52	NO	0.995	1.000	32.66	32.66	1.001	1.001	NO	53.35	107	0.0174	53.35
65	65 PCB-96	5.19e5	1.53	NO	0.996	1.000	33.98	33.96	1.041	1.041	NO	52.58	105	0.0174	52.58
66	66 PCB-103	3.90e5	1.54	NO	0.774	1.000	34.55	34.54	1.059	1.058	NO	50.82	102	0.0224	50.82
67	67 PCB-100	3.99e5	1.51	NO	0.778	1.000	34.93	34.89	1.070	1.069	NO	51.78	104	0.0223	51.78
68	68 PCB-94	3.08e5	1.47	NO	0.773	1.000	35.39	35.37	0.985	0.985	NO	53.48	107	0.0302	53.48



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Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102	1.27e6	1.51	NO	1.01	1.000	35.86	35.86	0.999	0.998	NO	167.5	112	0.0230	167.5
70	70 PCB-93	2.73e5	1.54	NO	0.841	1.000	35.99	36.01	1.002	1.003	NO	43.53	87.1	0.0278	43.53
71	71 PCB-88/91	7.18e5	1.50	NO	0.890	1.000	36.34	36.34	1.012	1.012	NO	108.2	108	0.0263	108.2
72	72 PCB-121	5.24e5	1.50	NO	1.39	1.000	36.46	36.44	1.015	1.015	NO	50.70	101	0.0169	50.70
73	73 PCB-84/92	6.53e5	1.52	NO	0.879	1.000	37.30	37.29	0.990	0.990	NO	105.1	105	0.0280	105.1
74	74 PCB-89	3.69e5	1.51	NO	0.959	1.000	37.47	37.48	0.995	0.995	NO	54.37	109	0.0256	54.37
75	75 PCB-90/101	7.30e5	1.50	NO	0.944	1.000	37.68	37.68	1.000	1.000	NO	109.3	109	0.0261	109.3
76	76 PCB-113	4.92e5	1.49	NO	1.23	1.000	37.93	37.92	1.007	1.007	NO	56.49	113	0.0200	56.49
77	77 PCB-99	4.10e5	1.53	NO	1.12	1.000	38.03	38.02	1.010	1.009	NO	51.84	104	0.0220	51.84
78	78 PCB-119	4.85e5	1.51	NO	1.47	1.000	38.49	38.50	0.987	0.987	NO	53.84	108	0.0197	53.84
79	79 PCB-108/112	8.11e5	1.53	NO	1.25	1.000	38.66	38.65	0.991	0.991	NO	106.0	106	0.0232	106.0
80	80 PCB-83	5.07e5	1.52	NO	1.55	1.000	38.81	38.83	0.995	0.996	NO	53.47	107	0.0187	53.48
81	81 PCB-97	3.50e5	1.54	NO	1.07	1.000	39.04	39.02	1.001	1.000	NO	53.18	106	0.0269	53.18
82	82 PCB-86	3.19e5	1.46	NO	0.996	1.000	39.19	39.19	1.005	1.005	NO	52.32	105	0.0291	52.33
83	83 PCB-87/117/125	1.33e6	1.51	NO	1.33	1.000	39.30	39.32	1.008	1.008	NO	163.1	109	0.0217	163.1
84	84 PCB-111/115	1.11e6	1.53	NO	1.60	1.000	39.47	39.47	1.012	1.012	NO	112.9	113	0.0181	112.9
85	85 PCB-85/116	7.93e5	1.55	NO	1.22	1.000	39.59	39.60	1.015	1.015	NO	106.6	107	0.0238	106.6
86	86 PCB-120	5.62e5	1.52	NO	1.68	1.000	39.86	39.86	1.022	1.022	NO	54.57	109	0.0172	54.57
87	87 PCB-110	4.95e5	1.52	NO	1.49	1.000	40.01	40.01	1.026	1.026	NO	54.37	109	0.0195	54.37
88	88 PCB-82	2.83e5	1.50	NO	0.674	1.000	40.65	40.64	0.976	0.975	NO	51.26	103	0.0326	51.26
89	89 PCB-124	5.08e5	1.53	NO	1.16	1.000	41.36	41.37	0.993	0.993	NO	53.49	107	0.0189	53.49
90	90 PCB-107/109	1.03e6	1.52	NO	1.17	1.000	41.51	41.51	0.996	0.996	NO	108.1	108	0.0189	108.1
91	91 PCB-123	4.67e5	1.54	NO	1.04	1.000	41.68	41.68	1.000	1.000	NO	54.91	110	0.0211	54.91
92	92 PCB-106/118	1.01e6	1.52	NO	1.07	1.000	41.89	41.89	1.001	1.001	NO	107.9	108	0.0192	107.9
93	93 PCB-114	6.38e5	1.61	NO	1.16	1.000	42.55	42.54	1.000	1.000	NO	52.28	105	0.0315	52.28
94	94 PCB-122	5.46e5	1.58	NO	0.973	1.000	42.67	42.68	1.003	1.004	NO	53.42	107	0.0377	53.42
95	95 PCB-105	6.28e5	1.58	NO	1.10	1.000	43.43	43.44	1.000	1.000	NO	52.97	106	0.0328	52.98
96	96 PCB-127	6.49e5	1.59	NO	1.11	1.000	43.79	43.79	1.000	1.000	NO	52.94	106	0.0318	52.94
97	97 PCB-126	6.41e5	1.59	NO	1.21	1.000	45.74	45.75	1.000	1.000	NO	54.06	108	0.0360	54.06
98	98 PCB-155	3.13e5	1.24	NO	0.874	1.000	37.20	37.22	1.000	1.001	NO	54.71	109	0.0139	54.71
99	99 PCB-150	3.15e5	1.22	NO	0.881	1.000	38.50	38.52	1.036	1.036	NO	54.59	109	0.0138	54.59
100	1... PCB-152	3.60e5	1.27	NO	1.00	1.000	38.98	39.00	1.048	1.049	NO	54.81	110	0.0121	54.81
101	1... PCB-145	3.66e5	1.22	NO	1.00	1.000	39.45	39.47	1.061	1.062	NO	55.97	112	0.0121	55.97
102	1... PCB-136	3.08e5	1.24	NO	0.843	1.000	39.78	39.80	1.070	1.071	NO	55.91	112	0.0144	55.91
103	1... PCB-148	2.33e5	1.26	NO	0.693	1.000	39.89	39.92	1.073	1.074	NO	51.37	103	0.0175	51.37
104	1... PCB-154	2.50e5	1.25	NO	0.724	1.000	40.42	40.42	1.087	1.087	NO	52.78	106	0.0168	52.78

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Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151	2.23e5	1.27	NO	0.632	1.000	41.07	41.09	1.105	1.105	NO	53.85	108 <i>75-107</i>	0.0192	53.85
106	1... PCB-135	2.58e5	1.30	NO	0.716	1.000	41.29	41.31	1.111	1.111	NO	55.19	110	0.0169	55.19
107	1... PCB-144	2.22e5	1.30	NO	0.667	1.000	41.40	41.42	1.114	1.114	NO	51.00	102	0.0182	51.00
108	1... PCB-147	2.44e5	1.29	NO	0.661	1.000	41.53	41.55	1.117	1.118	NO	56.33	113	0.0184	56.33
109	1... PCB-139/149	5.54e5	1.29	NO	0.738	1.000	41.81	41.83	1.125	1.125	NO	114.6	115	0.0164	114.6
110	1... PCB-140	2.28e5	1.29	NO	0.627	1.000	42.00	42.02	1.130	1.130	NO	55.66	111	0.0193	55.66
111	1... PCB-134/143	6.62e5	1.21	NO	0.733	1.000	42.49	42.47	0.975	0.974	NO	105.9	106	0.0448	105.9
112	1... PCB-131/133	7.29e5	1.18	NO	0.790	1.000	42.78	42.77	0.982	0.981	NO	108.3	108	0.0416	108.3
113	1... PCB-142	3.12e5	1.23	NO	0.708	1.000	42.93	42.94	0.985	0.985	NO	51.76	104	0.0464	51.76
114	1... PCB-146/165	8.66e5	1.18	NO	0.959	1.000	43.19	43.17	0.991	0.990	NO	106.0	106	0.0342	106.0
115	1... PCB-132/161	8.80e5	1.18	NO	0.974	1.000	43.42	43.42	0.996	0.996	NO	106.0	106	0.0337	106.0
116	1... PCB-153	4.52e5	1.21	NO	1.01	1.000	43.60	43.60	1.000	1.000	NO	52.40	105	0.0325	52.40
117	1... PCB-168	4.64e5	1.20	NO	1.02	1.000	43.83	43.83	1.006	1.006	NO	53.40	107	0.0322	53.40
118	1... PCB-141	3.59e5	1.21	NO	0.967	1.000	44.36	44.36	1.000	1.000	NO	52.33	105	0.0408	52.33
119	1... PCB-137	3.61e5	1.17	NO	0.987	1.000	44.74	44.76	1.009	1.009	NO	51.52	103	0.0400	51.52
120	1... PCB-130	2.91e5	1.18	NO	0.840	1.000	44.86	44.86	1.012	1.012	NO	48.89	97.8	0.0470	48.89
121	1... PCB-138/163/164	1.41e6	1.20	NO	1.23	1.000	45.25	45.25	1.001	1.001	NO	163.3	109	0.0328	163.3
122	1... PCB-158/160	8.83e5	1.20	NO	1.18	1.000	45.50	45.50	1.006	1.006	NO	106.6	107	0.0341	106.6
123	1... PCB-129	2.95e5	1.18	NO	0.819	1.000	45.75	45.75	1.012	1.012	NO	51.27	103	0.0491	51.27
124	1... PCB-166	4.81e5	1.17	NO	1.07	1.000	46.22	46.22	0.993	0.993	NO	51.72	103	0.0314	51.72
125	1... PCB-159	5.35e5	1.21	NO	1.12	1.000	46.56	46.56	1.000	1.000	NO	54.96	110	0.0300	54.96
126	1... PCB-128/162	7.86e5	1.19	NO	0.851	1.000	46.85	46.86	1.007	1.007	NO	106.3	106	0.0395	106.3
127	1... PCB-167	4.84e5	1.20	NO	1.04	1.000	47.26	47.26	1.000	1.000	NO	52.90	106	0.0319	52.90
128	1... PCB-156	4.91e5	1.21	NO	1.06	1.000	48.59	48.61	1.000	1.001	NO	53.88	108	0.0335	53.88
129	1... PCB-157	4.46e5	1.20	NO	0.978	1.000	48.89	48.87	1.001	1.000	NO	51.94	104	0.0349	51.94
130	1... PCB-169	4.70e5	1.20	NO	1.11	1.000	51.17	51.17	1.000	1.000	NO	51.81	104	0.0355	51.81
131	1... PCB-188	4.64e5	1.02	NO	1.19	1.000	43.23	43.21	1.001	1.000	NO	53.05	106	0.0302	53.05
132	1... PCB-184	4.29e5	1.01	NO	1.17	1.000	43.67	43.68	1.011	1.011	NO	50.18	100	0.0309	50.18
133	1... PCB-179	4.33e5	1.05	NO	1.18	1.000	44.48	44.48	1.030	1.030	NO	50.18	100	0.0306	50.18
134	1... PCB-176	4.32e5	1.02	NO	1.16	1.000	44.96	44.95	1.041	1.041	NO	50.86	102	0.0311	50.86
135	1... PCB-186	4.62e5	1.03	NO	1.22	1.000	45.57	45.60	1.055	1.056	NO	51.68	103	0.0296	51.68
136	1... PCB-178	3.00e5	1.02	NO	0.830	1.000	46.08	46.11	1.067	1.068	NO	49.29	98.6	0.0434	49.29
137	1... PCB-175	3.07e5	1.02	NO	0.849	1.000	46.44	46.47	1.075	1.076	NO	49.40	98.8	0.0425	49.40
138	1... PCB-182/187	7.31e5	1.05	NO	0.960	1.000	46.64	46.64	1.080	1.080	NO	103.8	104	0.0375	103.8
139	1... PCB-183	3.71e5	1.05	NO	0.957	1.000	46.97	46.96	1.088	1.087	NO	52.88	106	0.0377	52.88
140	1... PCB-185	3.09e5	1.03	NO	1.32	1.000	47.66	47.64	0.955	0.955	NO	51.28	103 <i>7</i>	0.0458	51.28

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Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174	2.97e5	1.03	NO	1.22	1.000	48.04	48.02	0.962	0.962	NO	53.47	107	0.0496	53.47
142	1... PCB-181	3.17e5	1.04	NO	1.41	1.000	48.13	48.13	0.964	0.964	NO	49.20	98.4	0.0427	49.20
143	1... PCB-177	2.82e5	1.01	NO	1.24	1.000	48.31	48.30	0.968	0.968	NO	49.84	99.7	0.0487	49.84
144	1... PCB-171	2.98e5	1.05	NO	1.24	1.000	48.61	48.61	0.974	0.974	NO	52.65	105	0.0486	52.65
145	1... PCB-173	2.66e5	1.00	NO	1.14	1.000	49.05	49.04	0.983	0.983	NO	50.99	102	0.0529	50.99
146	1... PCB-172	3.01e5	1.03	NO	1.31	1.000	49.53	49.52	0.992	0.992	NO	50.50	101	0.0462	50.50
147	1... PCB-192	4.01e5	1.05	NO	1.70	1.000	49.72	49.71	0.996	0.996	NO	51.64	103	0.0355	51.65
148	1... PCB-180	3.18e5	1.03	NO	1.32	1.000	49.93	49.93	1.000	1.000	NO	52.79	106	0.0458	52.80
149	1... PCB-193	3.67e5	1.02	NO	1.54	1.000	50.16	50.14	1.005	1.005	NO	52.30	105	0.0392	52.30
150	1... PCB-191	3.75e5	1.04	NO	1.57	1.000	50.41	50.41	1.010	1.010	NO	52.20	104	0.0384	52.20
151	1... PCB-170	2.71e5	1.04	NO	1.36	1.000	51.58	51.58	1.000	1.000	NO	50.11	100	0.0494	50.11
152	1... PCB-190	3.71e5	1.04	NO	1.84	1.000	51.77	51.79	1.004	1.004	NO	50.80	102	0.0365	50.80
153	1... PCB-189	3.94e5	1.02	NO	1.33	1.000	53.29	53.29	1.000	1.000	NO	54.00	108	0.0334	54.01
154	1... PCB-202	3.22e5	0.89	NO	1.02	1.000	48.83	48.81	1.001	1.000	NO	53.82	108	0.0175	53.82
155	1... PCB-201	2.76e5	0.87	NO	0.915	1.000	49.32	49.31	1.011	1.010	NO	51.51	103	0.0195	51.51
156	1... PCB-204	3.07e5	0.89	NO	0.979	1.000	49.47	49.46	1.014	1.014	NO	53.68	107	0.0183	53.68
157	1... PCB-197	3.05e5	0.89	NO	0.979	1.000	49.79	49.78	1.020	1.020	NO	53.19	106	0.0183	53.19
158	1... PCB-200	2.93e5	0.89	NO	0.954	1.000	50.74	50.71	1.040	1.039	NO	52.44	105	0.0187	52.44
159	1... PCB-198	2.13e5	0.89	NO	0.748	1.000	52.26	52.26	1.071	1.071	NO	48.58	97.2	0.0239	48.58
160	1... PCB-199	2.17e5	0.88	NO	0.706	1.000	52.37	52.40	1.073	1.074	NO	52.49	105	0.0253	52.49
161	1... PCB-196/203	4.58e5	0.88	NO	0.785	1.000	52.71	52.70	1.080	1.080	NO	99.76	99.8	0.0228	99.76
162	1... PCB-195	3.29e5	0.91	NO	1.03	1.000	53.95	53.97	0.984	0.984	NO	47.17	94.3	0.0222	47.17
163	1... PCB-194	4.01e5	0.91	NO	1.16	1.000	54.88	54.87	1.000	1.000	NO	51.41	103	0.0198	51.41
164	1... PCB-205	5.25e5	0.90	NO	1.40	1.000	55.14	55.15	1.005	1.005	NO	55.48	111	0.0164	55.48
165	1... PCB-208	3.54e5	1.30	NO	0.934	1.000	54.12	54.11	1.000	1.000	NO	50.72	101	0.0172	50.72
166	1... PCB-207	3.61e5	1.30	NO	0.912	1.000	54.43	54.45	1.006	1.007	NO	52.92	106	0.0176	52.92
167	1... PCB-206	3.06e5	1.30	NO	0.987	1.000	56.41	56.41	1.000	1.000	NO	51.30	103	0.0197	51.30
168	1... PCB-209	3.48e5	1.19	NO	0.943	1.000	57.61	57.62	1.000	1.000	NO	54.43	109	0.00529	54.43
169	1... 13C-PCB-1	2.12e6	3.31	NO	1.08	1.000	15.66	15.65	0.609	0.609	NO	90.04	90.0	0.0699	90.0
170	1... 13C-PCB-3	2.07e6	3.45	NO	1.09	1.000	18.32	18.32	0.712	0.712	NO	86.51	86.5	0.0690	86.5
171	1... 13C-PCB-4	1.41e6	1.61	NO	0.640	1.000	19.67	19.67	0.765	0.765	NO	100.6	101	0.0407	100.6
172	1... 13C-PCB-9	2.24e6	1.58	NO	0.995	1.000	21.51	21.51	0.837	0.837	NO	102.6	103	0.0262	102.6
173	1... 13C-PCB-11	2.12e6	1.58	NO	0.971	1.000	24.99	24.99	0.972	0.972	NO	99.45	99.5	0.0268	99.45
174	1... 13C-PCB-19	1.05e6	0.99	NO	0.637	1.000	23.93	23.92	0.931	0.931	NO	74.93	74.9	0.177	74.93
175	1... 13C-PCB-32	1.56e6	0.98	NO	0.910	1.000	26.95	26.92	1.048	1.047	NO	78.40	78.4	0.124	78.40
176	1... 13C-PCB-28	1.87e6	0.98	NO	1.07	1.000	28.93	28.95	1.003	1.004	NO	102.5	103	0.154	102.5

Dataset: U:\VG11.PRO\Results\191116K2\191116K2-2.qld

Last Altered: Monday, November 18, 2019 07:08:06 Pacific Standard Time  
Printed: Monday, November 18, 2019 08:44:24 Pacific Standard Time

Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	1.65e6	0.96	NO	0.959	1.000	32.92	32.96	1.141	1.143	NO	100.4	100	0.172	
178	1... 13C-PCB-54	1.38e6	0.75	NO	1.10	1.000	27.76	27.78	0.753	0.753	NO	101.0	101	0.0642	
179	1... 13C-PCB-52	1.03e6	0.77	NO	0.844	1.000	31.45	31.45	0.853	0.853	NO	98.07	98.1	0.0835	
180	1... 13C-PCB-47	1.08e6	0.77	NO	0.893	1.000	31.97	31.97	0.867	0.867	NO	97.38	97.4	0.0789	
181	1... 13C-PCB-70	1.22e6	0.77	NO	1.01	1.000	35.59	35.62	0.965	0.966	NO	97.51	97.5	0.0700	
182	1... 13C-PCB-80	1.28e6	0.78	NO	1.05	1.000	36.02	36.04	0.977	0.977	NO	98.67	98.7	0.0674	
183	1... 13C-PCB-81	1.20e6	0.76	NO	0.985	1.000	39.24	39.26	1.064	1.065	NO	97.55	97.5	0.0716	
184	1... 13C-PCB-77	1.17e6	0.78	NO	0.958	1.000	39.85	39.88	1.080	1.081	NO	98.34	98.3	0.0735	
185	1... 13C-PCB-104	9.92e5	1.60	NO	1.10	1.000	32.66	32.64	0.827	0.827	NO	101.3	101	0.0302	
186	1... 13C-PCB-95	7.46e5	1.65	NO	0.852	1.000	35.93	35.91	0.910	0.910	NO	98.03	98.0	0.0389	
187	1... 13C-PCB-101	7.07e5	1.66	NO	0.814	1.000	37.68	37.66	0.955	0.954	NO	97.37	97.4	0.0408	
188	1... 13C-PCB-97	6.12e5	1.68	NO	0.709	1.000	39.02	39.00	0.989	0.988	NO	96.72	96.7	0.0467	
189	1... 13C-PCB-123	8.17e5	1.62	NO	0.922	1.000	41.65	41.66	1.055	1.056	NO	99.37	99.4	0.0360	
190	1... 13C-PCB-118	8.77e5	1.62	NO	0.975	1.000	41.84	41.85	1.060	1.060	NO	100.8	101	0.0340	
191	1... 13C-PCB-114	1.05e6	1.49	NO	1.52	1.000	42.53	42.53	0.908	0.908	NO	113.9	114	0.0473	
192	1... 13C-PCB-105	1.08e6	1.53	NO	1.58	1.000	43.42	43.42	0.927	0.927	NO	112.1	112	0.0454	
193	1... 13C-PCB-127	1.11e6	1.53	NO	1.62	1.000	43.78	43.78	0.935	0.935	NO	112.5	112	0.0444	
194	1... 13C-PCB-126	9.78e5	1.49	NO	1.45	1.000	45.73	45.73	0.976	0.976	NO	111.6	112	0.0498	
195	1... 13C-PCB-155	6.54e5	1.32	NO	1.03	1.000	37.19	37.18	0.942	0.942	NO	71.44	71.4	0.0112	
196	1... 13C-PCB-153	8.52e5	1.26	NO	1.42	1.000	43.59	43.59	0.931	0.931	NO	98.66	98.7	0.0522	
197	1... 13C-PCB-141	7.09e5	1.25	NO	1.14	1.000	44.37	44.34	0.947	0.947	NO	102.3	102	0.0650	
198	1... 13C-PCB-138	7.02e5	1.28	NO	1.18	1.000	45.23	45.22	0.966	0.966	NO	98.12	98.1	0.0630	
199	1... 13C-PCB-159	8.69e5	1.29	NO	1.43	1.000	46.57	46.54	0.994	0.994	NO	99.93	99.9	0.0518	
200	2... 13C-PCB-167	8.77e5	1.26	NO	1.42	1.000	47.27	47.24	1.009	1.009	NO	101.5	102	0.0522	
201	2... 13C-PCB-156	8.63e5	1.26	NO	1.40	1.000	48.59	48.57	1.038	1.037	NO	101.8	102	0.0532	
202	2... 13C-PCB-157	8.78e5	1.26	NO	1.41	1.000	48.87	48.85	1.044	1.043	NO	102.8	103	0.0528	
203	2... 13C-PCB-169	8.19e5	1.26	NO	1.35	1.000	51.14	51.15	1.092	1.092	NO	100.3	100	0.0552	
204	2... 13C-PCB-188	7.33e5	0.45	NO	1.46	1.000	43.19	43.19	0.926	0.926	NO	100.7	101	0.0458	
205	2... 13C-PCB-180	4.56e5	0.47	NO	0.932	1.000	49.89	49.91	1.070	1.070	NO	98.33	98.3	0.0718	
206	2... 13C-PCB-170	3.97e5	0.46	NO	0.796	1.000	51.56	51.56	1.106	1.106	NO	100.2	100	0.0842	
207	2... 13C-PCB-189	5.48e5	0.47	NO	1.09	1.000	53.24	53.27	1.142	1.142	NO	101.0	101	0.0614	
208	2... 13C-PCB-202	5.85e5	0.91	NO	1.45	1.000	48.80	48.80	1.046	1.046	NO	81.00	81.0	0.0214	
209	2... 13C-PCB-194	6.75e5	0.89	NO	0.714	1.000	54.88	54.86	0.995	0.995	NO	95.82	95.8	0.0325	
210	2... 13C-PCB-208	7.47e5	0.79	NO	0.896	1.000	54.12	54.10	0.982	0.981	NO	84.39	84.4	0.0354	
211	2... 13C-PCB-206	6.03e5	0.80	NO	0.653	1.000	56.39	56.40	1.023	1.023	NO	93.60	93.6	0.0486	
212	2... 13C-PCB-209	6.79e5	1.20	NO	0.806	1.000	57.62	57.61	1.045	1.045	NO	85.36	85.4	0.00666	

50-115%

Dataset: U:\VG11.PRO\Results\191116K2\191116K2-2.qld

Last Altered: Monday, November 18, 2019 07:08:06 Pacific Standard Time  
Printed: Monday, November 18, 2019 08:44:24 Pacific Standard Time

Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	2.19e6	1.58	NO	1.00	1.000	25.71	25.71	1.000	0.000	NO	100.0	100	0.0260	
214	2... 13C-PCB-31	1.71e6	0.96	NO	1.00	1.000	28.84	28.84	1.000	0.000	NO	100.0	100	0.165	
215	2... 13C-PCB-60	1.24e6	0.75	NO	1.00	1.000	36.90	36.88	1.000	0.000	NO	100.0	100	0.0705	
216	2... 13C-PCB-111	8.93e5	1.59	NO	1.00	1.000	39.47	39.47	1.000	0.000	NO	100.0	100	0.0332	
217	2... 13C-PCB-128	6.07e5	1.28	NO	1.00	1.000	46.82	46.83	1.000	0.000	NO	100.0	100	0.0743	
218	2... 13C-PCB-182	4.98e5	0.44	NO	1.00	1.000	46.65	46.64	0.000	0.000	NO	100.0	100	0.0670	
219	2... 13C-PCB-205	9.88e5	0.90	NO	1.00	1.000	55.15	55.14	1.000	0.000	NO	100.0	100	0.0232	
220	2... 13C-PCB-79	1.27e6	0.75	NO	1.03	1.000	38.01	38.00	1.031	1.030	NO	98.52	98.5	0.0683	75175
221	2... 13C-PCB-178	4.39e5	0.46	NO	0.875	1.000	46.09	46.09	0.988	0.988	NO	82.75	82.8	0.0672	
222	2... 13C-PCB-79	1.26e6	0.76	NO	1.05	1.000	37.99	38.00	0.967	0.968	NO	100.8	101	0.0719	
223	2... 13C-PCB-178	4.39e5	0.46	NO	0.975	1.000	46.10	46.09	0.924	0.923	NO	98.73	98.7	0.0790	

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Monday, November 18, 2019 08:42:29 Pacific Standard Time

Printed: Monday, November 18, 2019 08:42:43 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_11-14-19.mdb 14 Nov 2019 15:03:40

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Compound name: PCB-1

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1	191116K2_1	SOLVENT BLANK	17-Nov-19	04:01:45
2	191116K2_2	ST191116K2-1 PCB 209 CS3 19C1106	17-Nov-19	05:02:28
3	191116K2_3	SOLVENT BLANK	17-Nov-19	06:03:22
4	191116K2_4	1903630-01@5X EK255 14.27	17-Nov-19	07:05:20
5	191116K2_5	1903630-04@5X EK258 12.74	17-Nov-19	08:06:57
6	191116K2_6	1903630-08@5X EK262 13.84	17-Nov-19	09:07:38
7	191116K2_7	1903830-01RE1@20X SRL-47457 SY 6852.3...	17-Nov-19	10:08:28
8	191116K2_8	1903588-18RE2@10 A4-FPS-202-12-24-0919...	17-Nov-19	11:09:19
9	191116K2_9	1903020-01RE1@20X SRL-47432 SY6852.34...	17-Nov-19	12:11:28
10	191116K2_10	1903588-19@20X A4-FPS-202-24-34-0919-M...	17-Nov-19	13:13:22
11	191116K2_11	1903655-06RE1@20X PDI-035SC-A-00-01-19...	17-Nov-19	14:14:12
12	191116K2_12	1903588-14RE2@20X A4-FPS-203-0-12-0919...	17-Nov-19	15:15:06

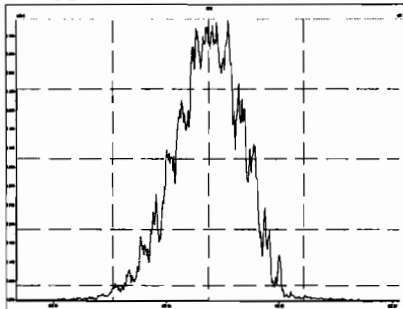
Resolution Check Report

MassLynx 4.1 SCN815

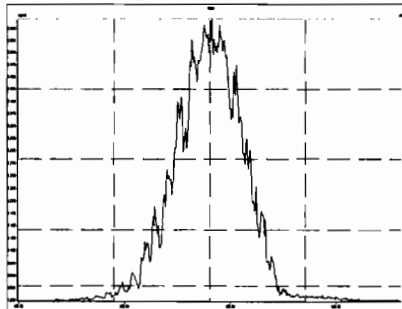
Printed: Sunday, November 17, 2019 04:01:43 Pacific Standard Time

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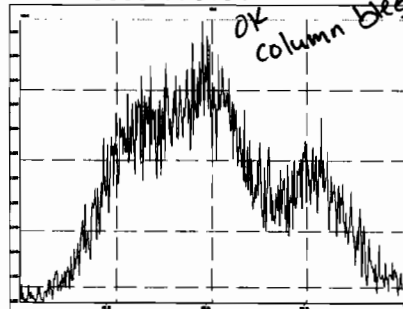
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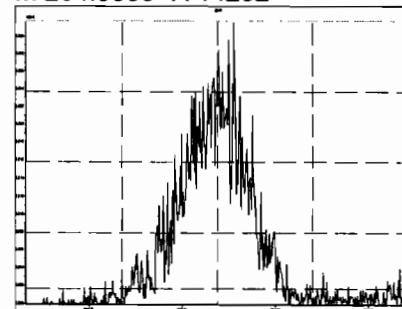
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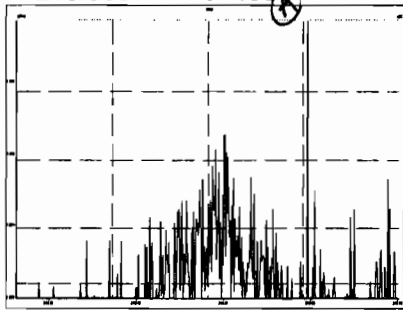
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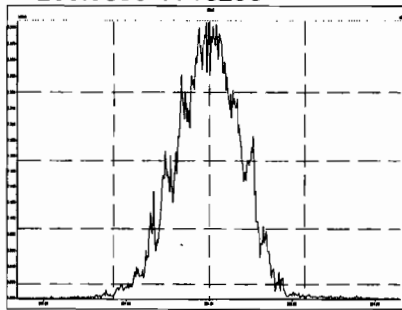
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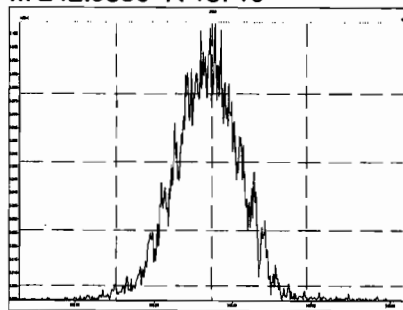
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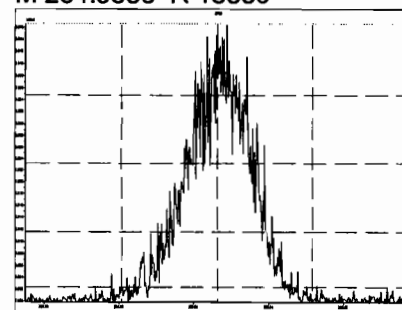
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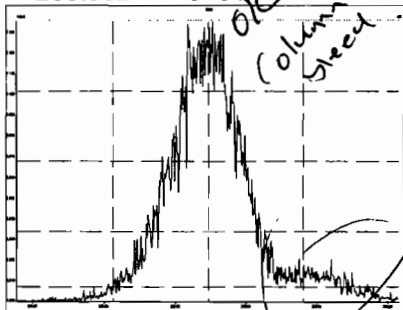
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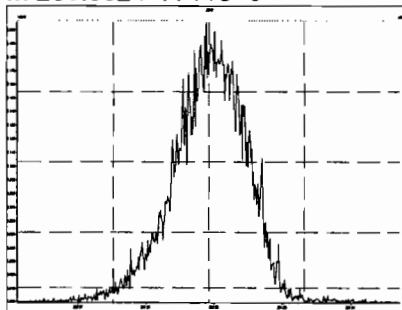
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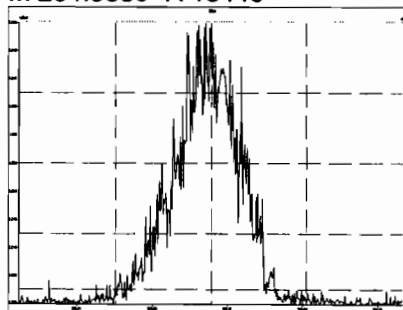
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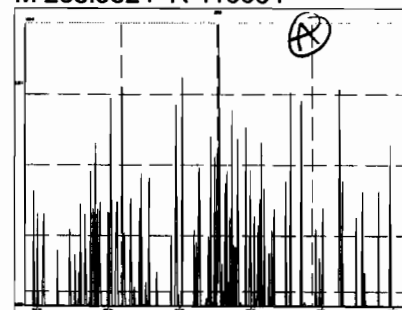
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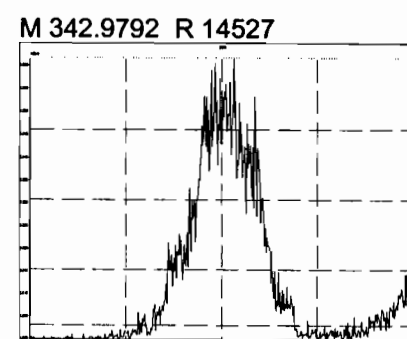
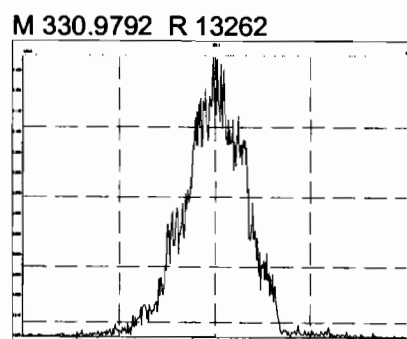
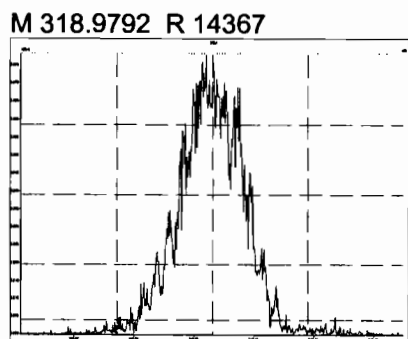
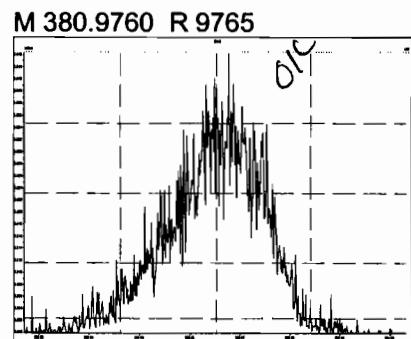
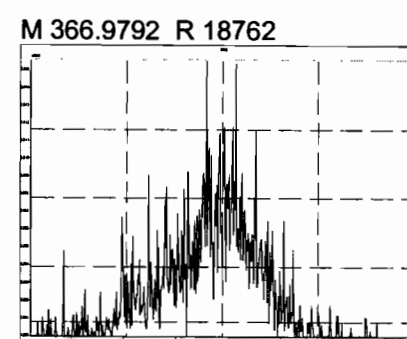
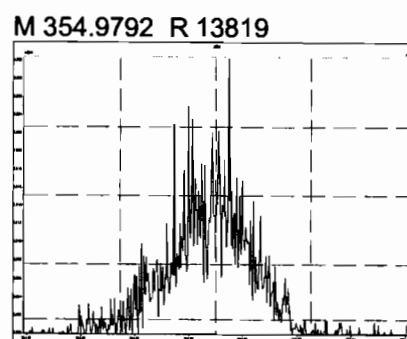
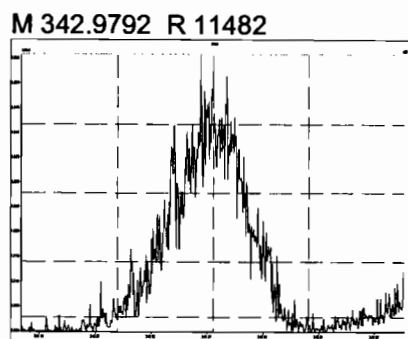
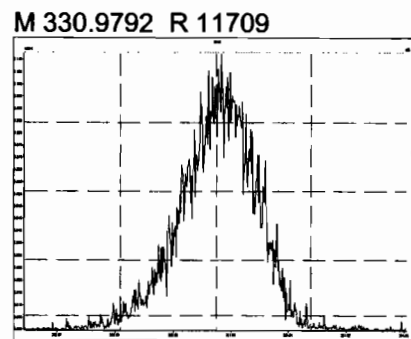
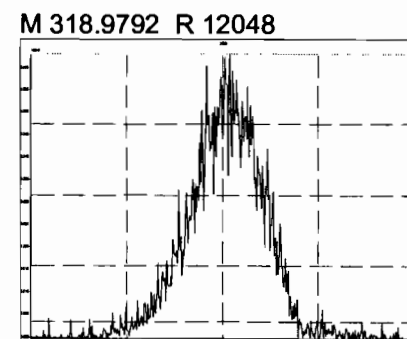
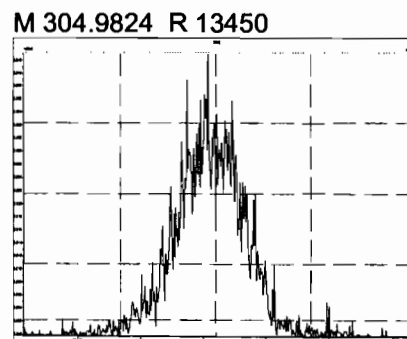
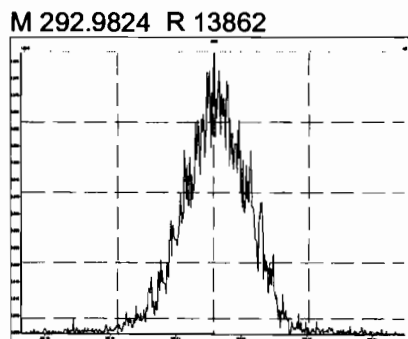
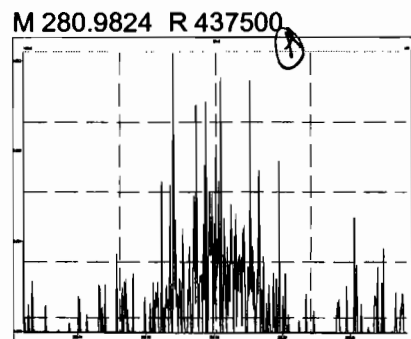
M 254.9856 R 13446



M 268.9824 R 416664



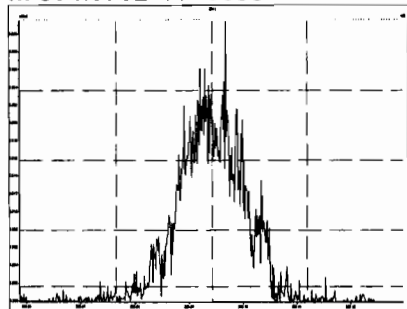
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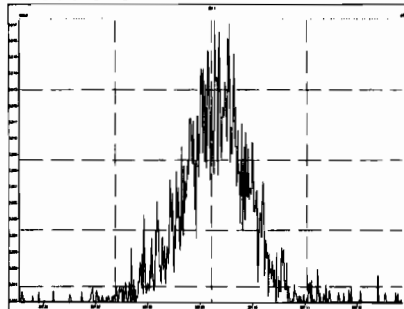


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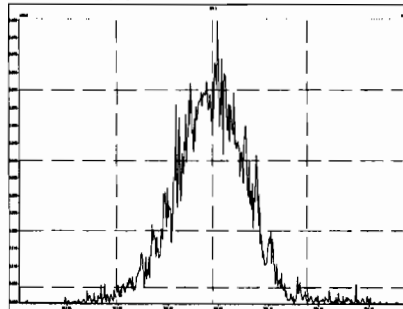
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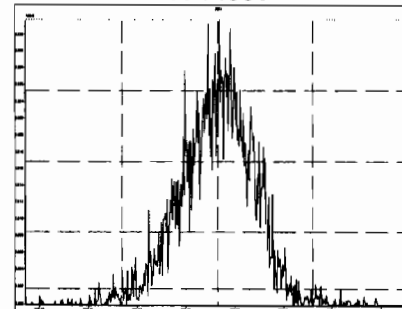
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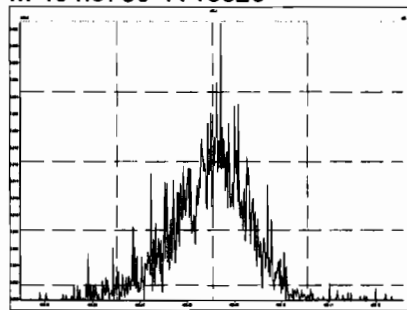
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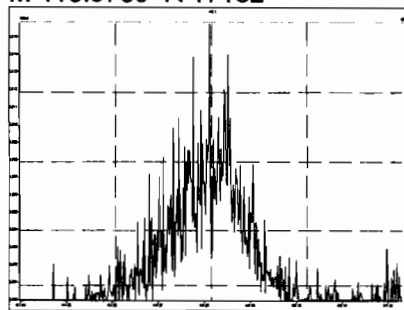
M 392.9760 R 14665



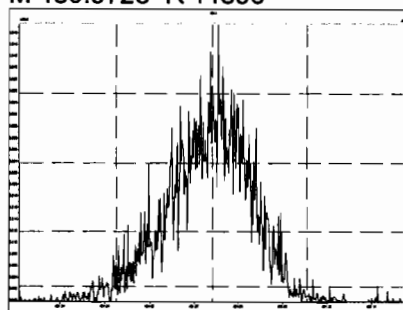
M 404.9760 R 15926



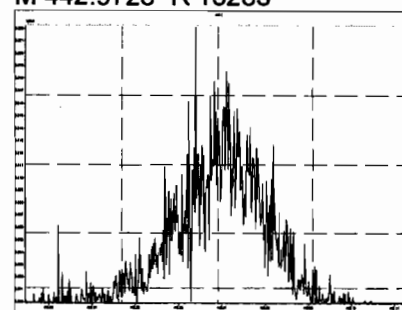
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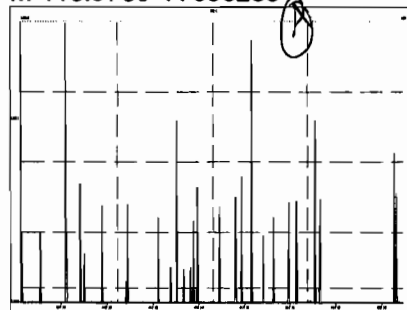
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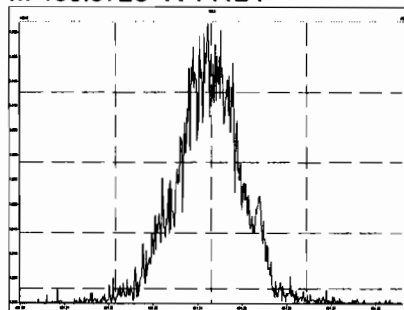
M 442.9728 R 15283



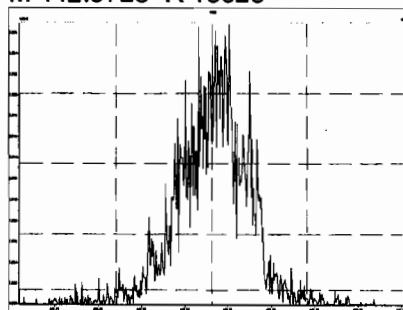
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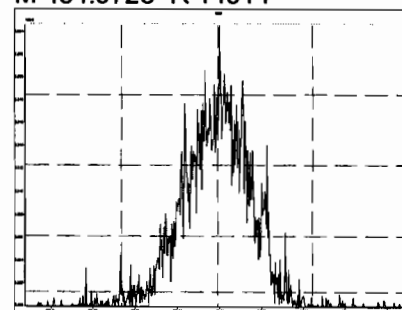
M 430.9728 R 14124



M 442.9728 R 15625

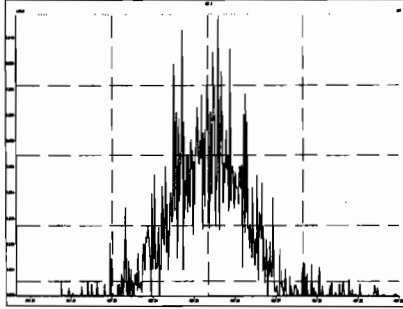


M 454.9728 R 14914

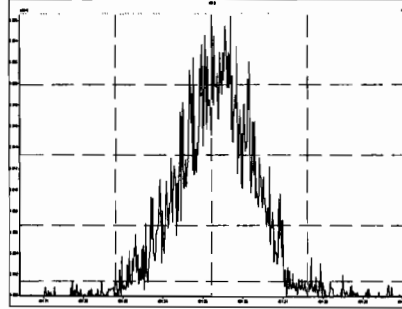


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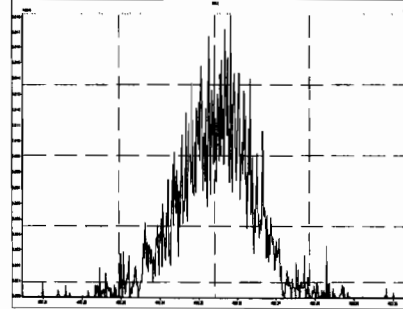
M 466.9728 R 18406



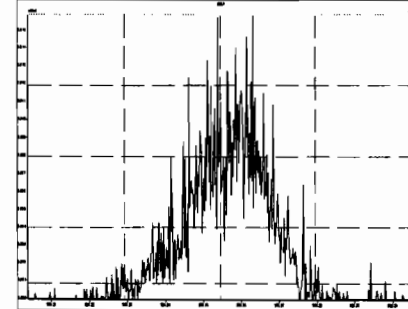
M 480.9696 R 13450



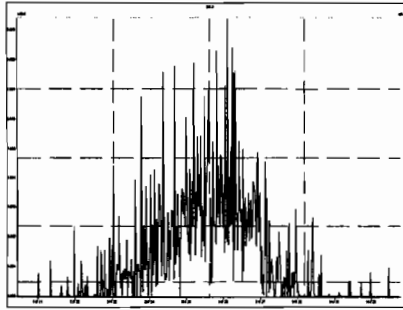
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M 504.9696 R 13334



M 516.9697 R 19446



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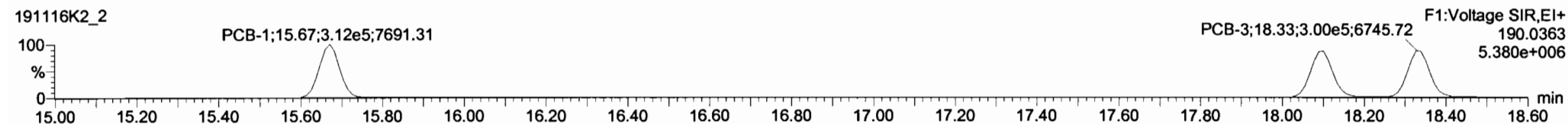
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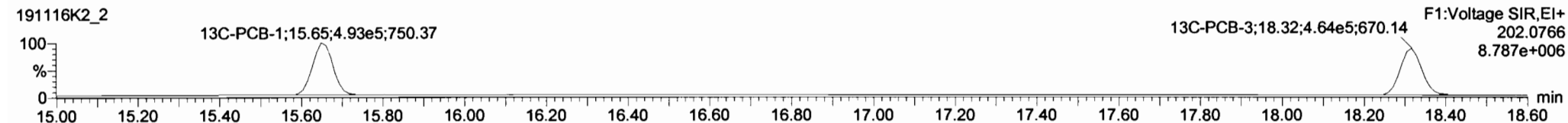
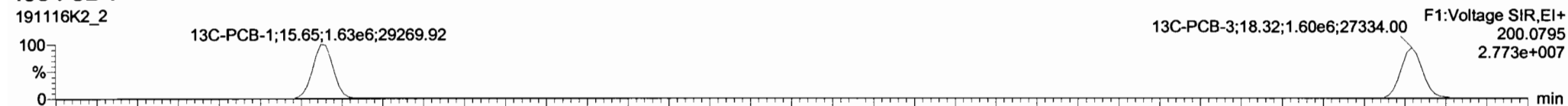
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Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 11:47:57

Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

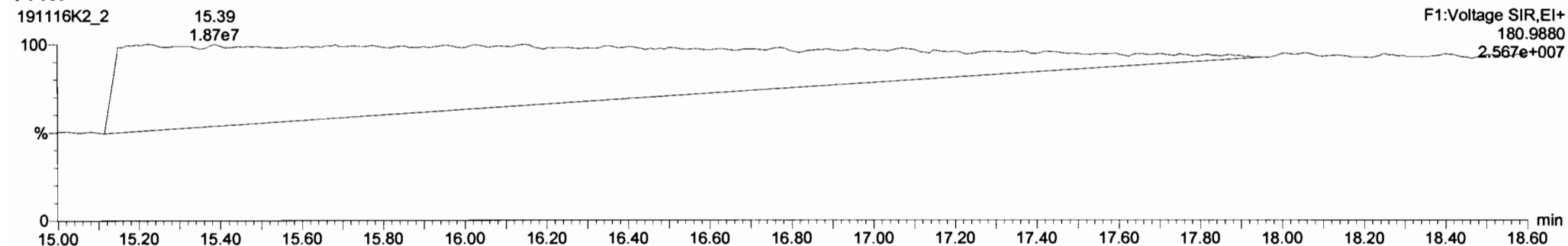
**PCB-1**



**13C-PCB-1**



**PFK1**

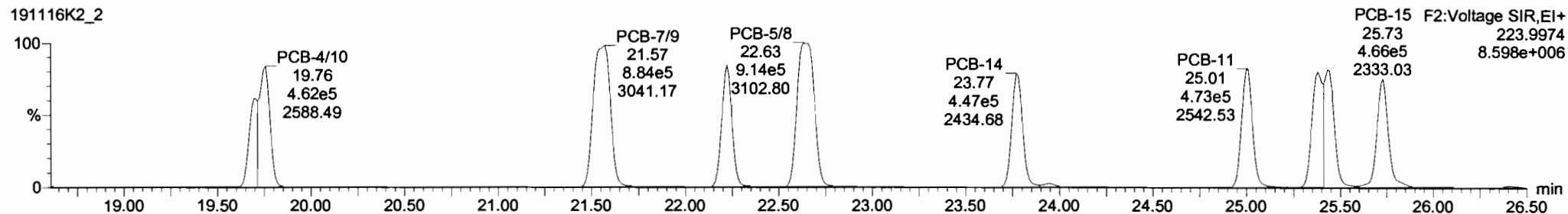
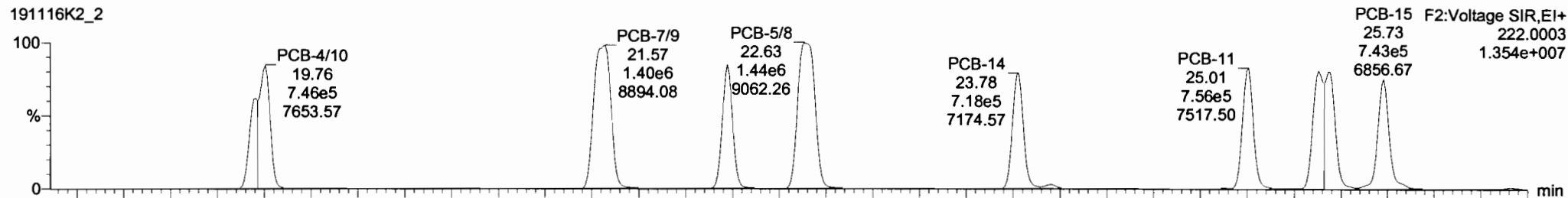


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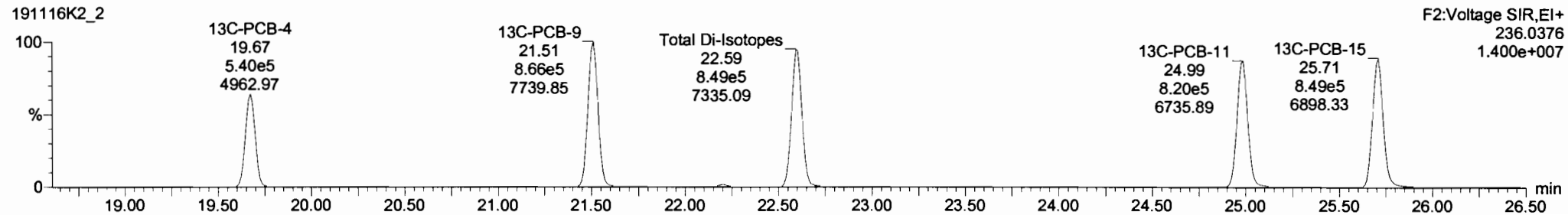
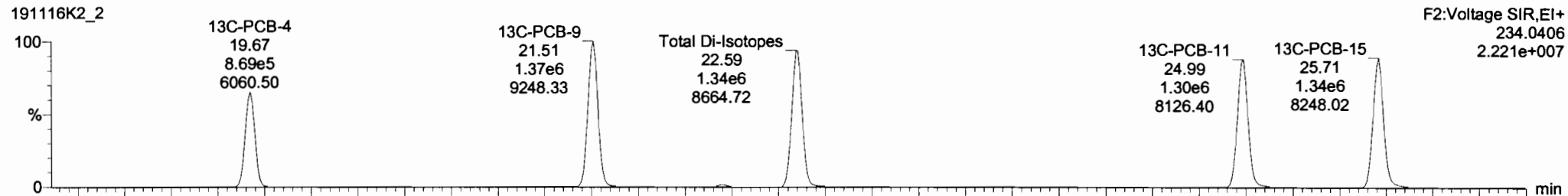
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Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-4/10**

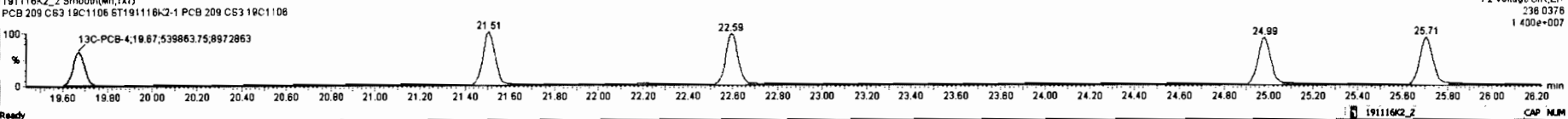
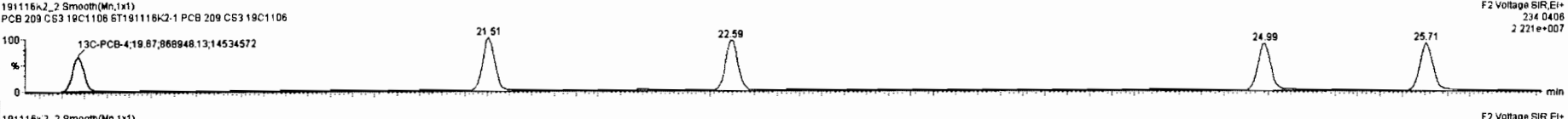
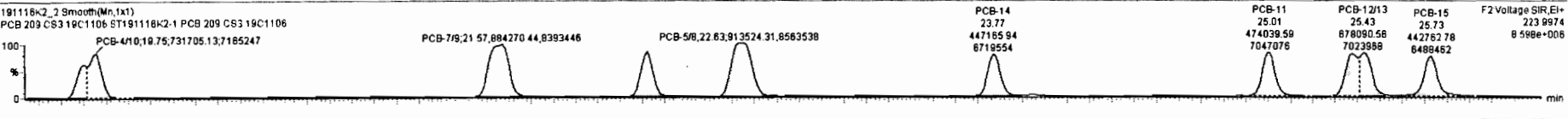
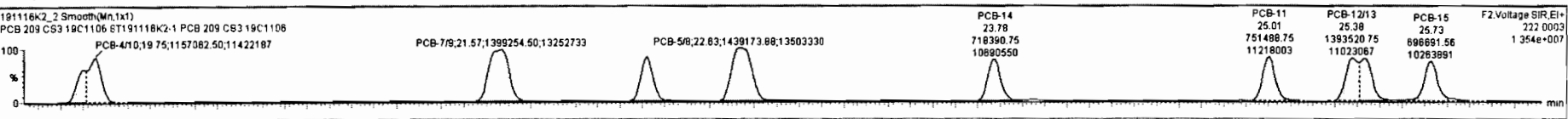


**13C-PCB-4**



#	Name	Resp	RA	Rely	RRF	VolVol	ProdRT	RT	ProdR...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
221	13C-PCB-178	4.39e5	0.48	NO	0.8746	1.000	46.09	46.09	0.988	0.988	NO	82.75	82.8	0.0672	
222	13C-PCB-79	1.25e6	0.78	NO	1.0454	1.000	37.98	38.00	0.967	0.968	NO	100.8	101	0.0719	
223	13C-PCB-178	4.39e5	0.48	NO	0.9749	1.000	46.10	46.09	0.924	0.923	NO	98.73	98.7	0.0790	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	175.7		0.0272	175.7
225	Total Di-PCBs				1.0802	1.000	0.00		0.000		NO	827.8		0.2811	827.8
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	444.4		0.0664	444.4
227	3rd Function Tri-PCBs				1.0583	1.000	0.00		0.000		NO	830.9		0.362	830.9
228	Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	2294		0.804	2294
229	3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	2195		0.654	2195
230	4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	265.7		0.170	265.7

#	Name	ProdRT	RT	rel Resp	rel Conc	1* Ratio (Prod)	RA	Rely	EMPC	Conc
4	PCB-4/10	19.75	19.75	1.157e6	7.317e5	1.580	1.58	NO	105.12	105.12
5	PCB-7/9	21.57	21.57	1.399e6	8.843e5	1.580	1.58	NO	104.85	104.85
6	PCB-8	22.22	22.22	7.245e5	4.543e5	1.580	1.58	NO	51.844	51.844
7	PCB-5/8	22.63	22.63	1.438e6	9.135e5	1.580	1.58	NO	104.09	104.09
8	PCB-14	23.78	23.78	7.184e5	4.472e5	1.580	1.58	NO	53.352	53.352
9	PCB-11	25.01	25.01	7.515e5	4.740e5	1.580	1.58	NO	52.865	52.865
10	PCB-12/13	25.44	25.38	1.394e6	8.781e5	1.580	1.58	NO	103.56	103.56

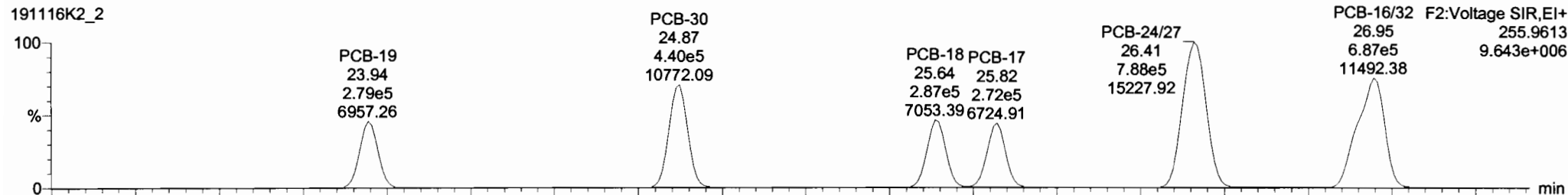


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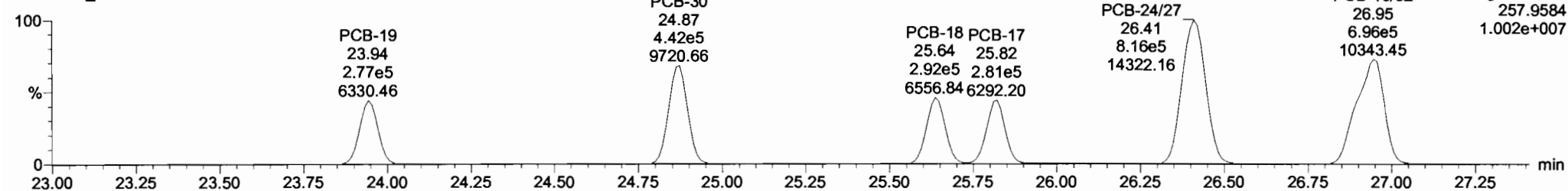
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Printed: Monday, November 18, 2019 08:47:38 Pacific Standard Time

Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

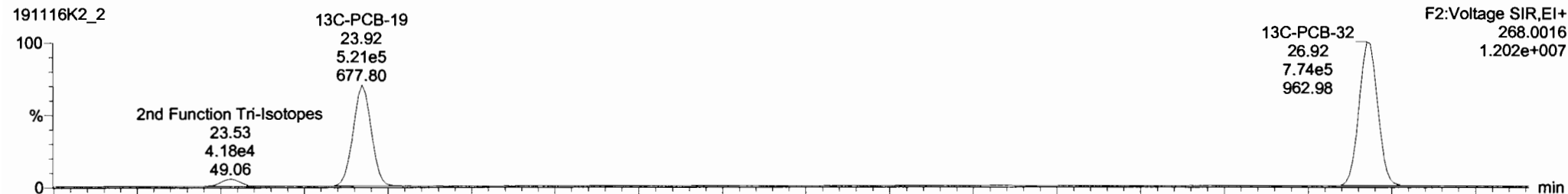
PCB-19



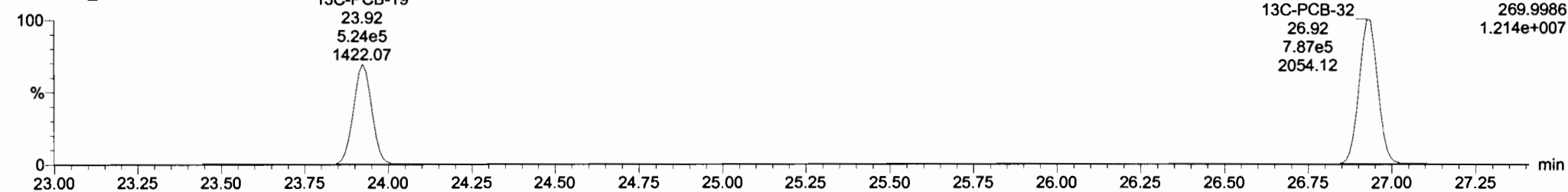
191116K2\_2



13C-PCB-19



191116K2\_2



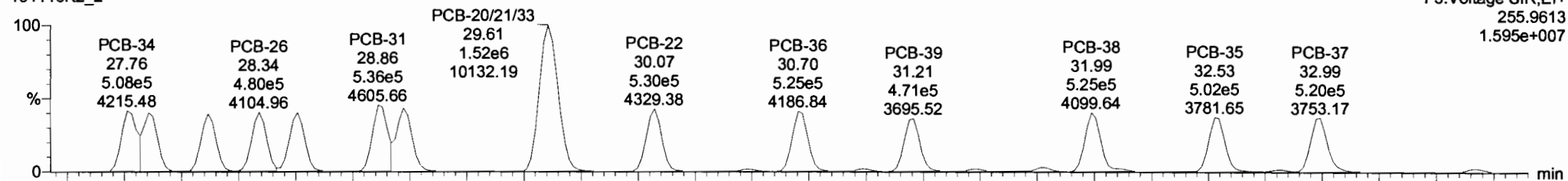
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Last Altered: Monday, November 18, 2019 08:45:50 Pacific Standard Time  
 Printed: Monday, November 18, 2019 08:47:38 Pacific Standard Time

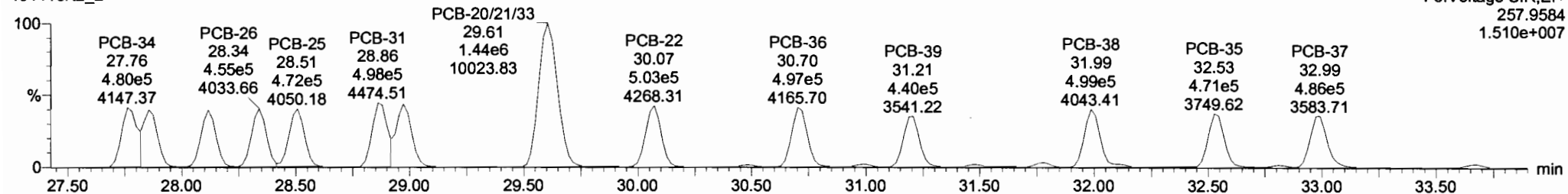
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**PCB-34**

191116K2\_2

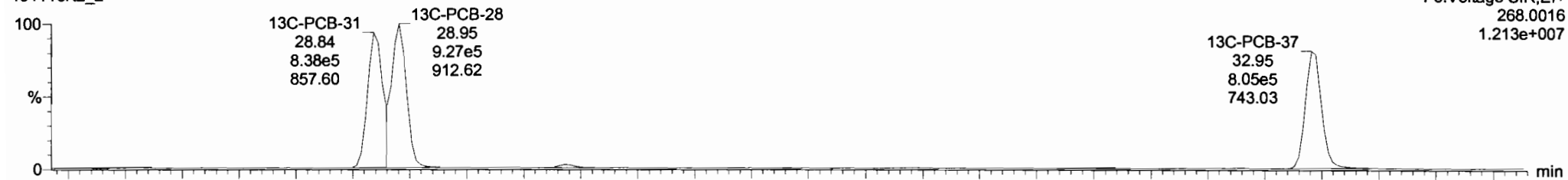


191116K2\_2

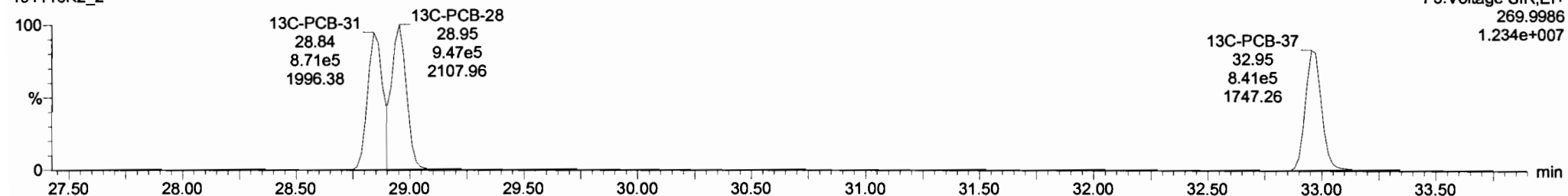


**13C-PCB-28**

191116K2\_2



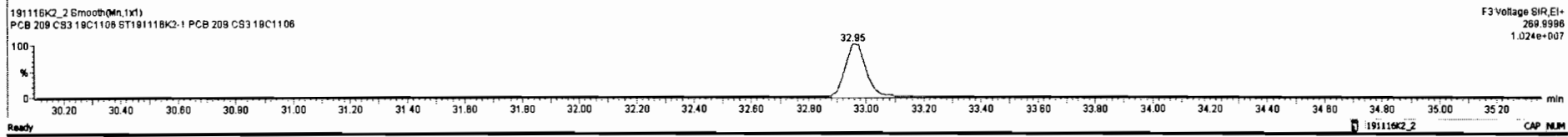
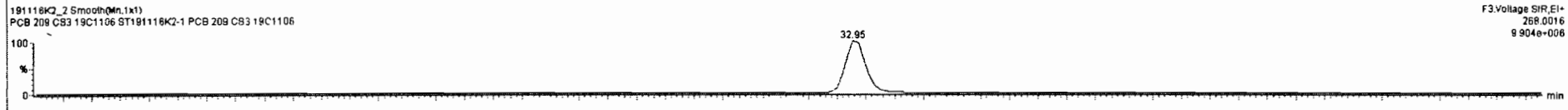
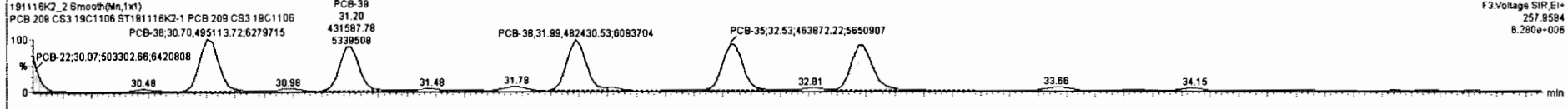
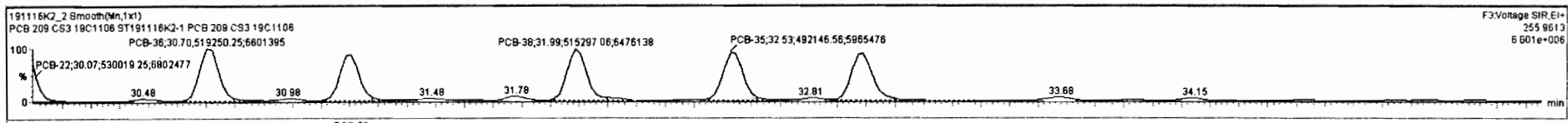
191116K2\_2





#	Name	Resp	RA	n/y	RF	relVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	BAPC
221	221 13C-PCB-178	4.39e5	0.46	NO	0.8746	1.000	46.09	46.09	0.998	0.998	NO	82.75	82.6	0.0672	
222	222 13C-PCB-79	1.26e6	0.76	NO	1.0454	1.000	37.98	38.00	0.967	0.968	NO	100.8	101	0.0719	
223	223 13C-PCB-178	4.39e5	0.46	NO	0.9749	1.000	46.10	46.09	0.924	0.923	NO	98.73	98.7	0.0790	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	175.7		0.0272	175.7
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	627.9		0.201	627.9
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	444.4		0.0864	444.4
227	227 3rd Function Tri-PCBs				1.0983	1.000	0.00		0.000		NO	830.8		0.262	830.8
228	228 Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	2294		0.804	2294
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	2195		0.654	2195
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	265.7		0.170	265.7

#	Name	Pred.RT	RT	rel Resp	rel Conc	1* Ratio (Pred)	RA	n/y	BAPC	Conc.
1	18 PCB-34	27.76	27.76	5.082e5	4.803e5	1.040	1.06	NO	53.436	53.436
2	19 PCB-23	27.86	27.86	4.728e5	4.365e5	1.040	1.08	NO	49.832	49.832
3	20 PCB-29	28.10	28.12	4.674e5	4.423e5	1.040	1.06	NO	50.919	50.919
4	21 PCB-26	28.35	28.34	4.801e5	4.548e5	1.040	1.06	NO	48.841	48.841
5	22 PCB-25	28.49	28.51	4.948e5	4.718e5	1.040	1.05	NO	52.735	52.735
6	23 PCB-31	28.98	28.96	5.359e5	4.977e5	1.040	1.08	NO	49.113	49.113
7	24 PCB-26	28.97	28.97	5.624e5	5.298e5	1.040	1.08	NO	52.717	52.717



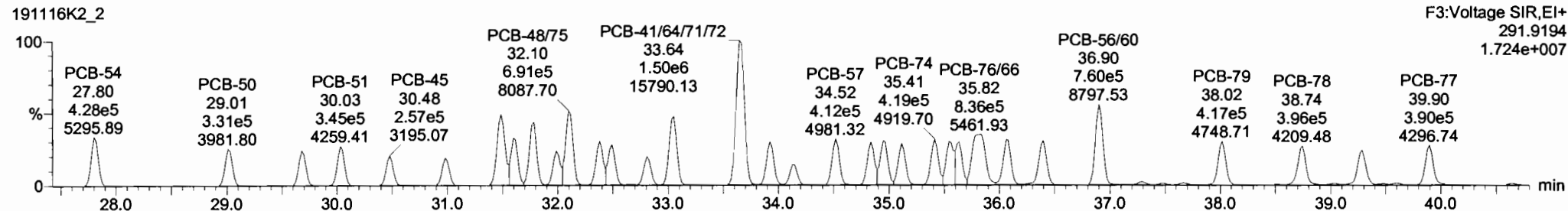
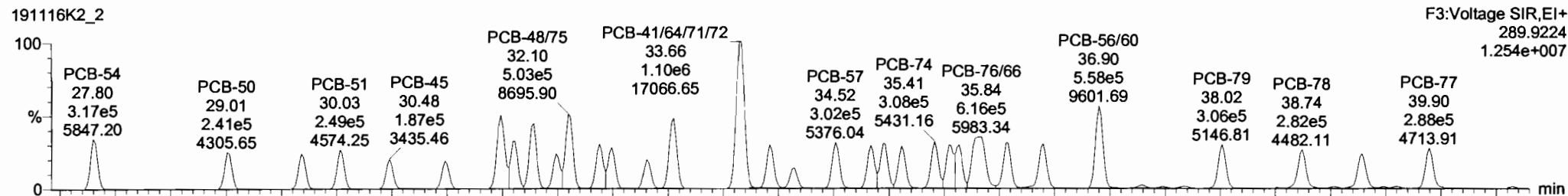


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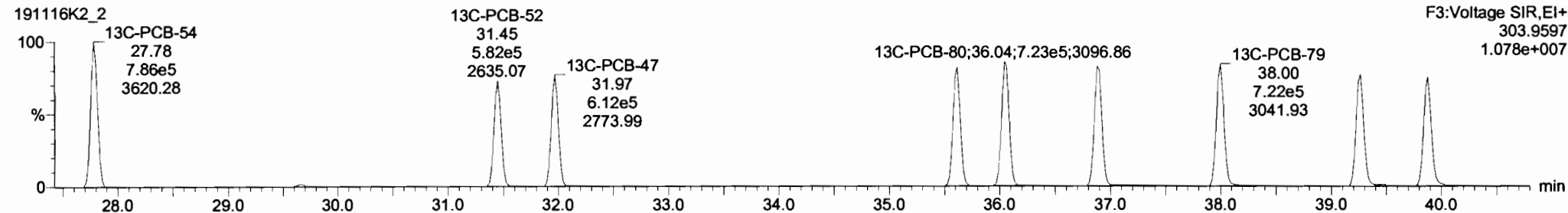
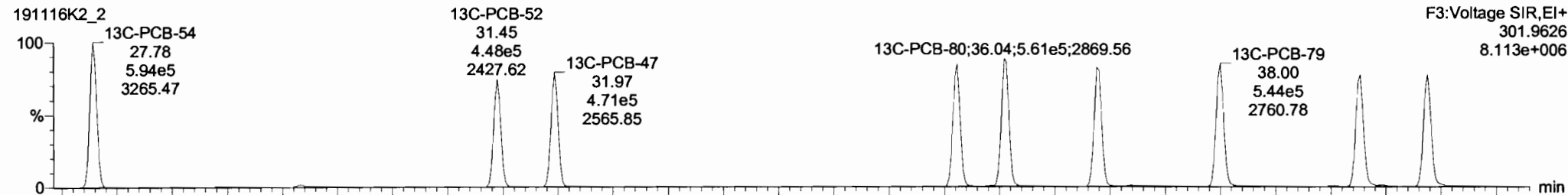
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Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

PCB-54



13C-PCB-54



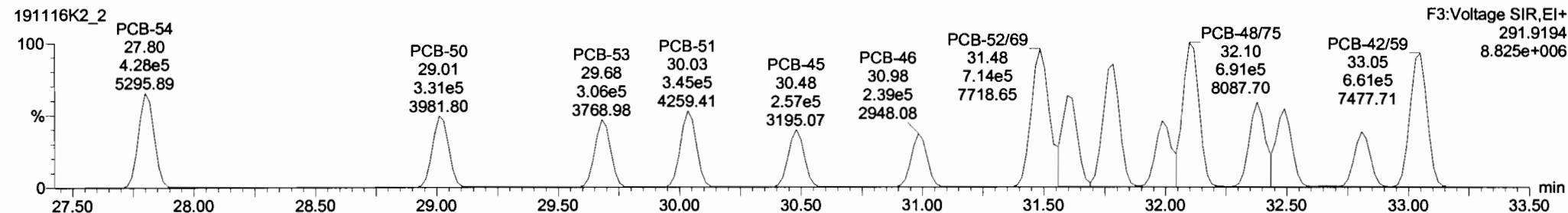
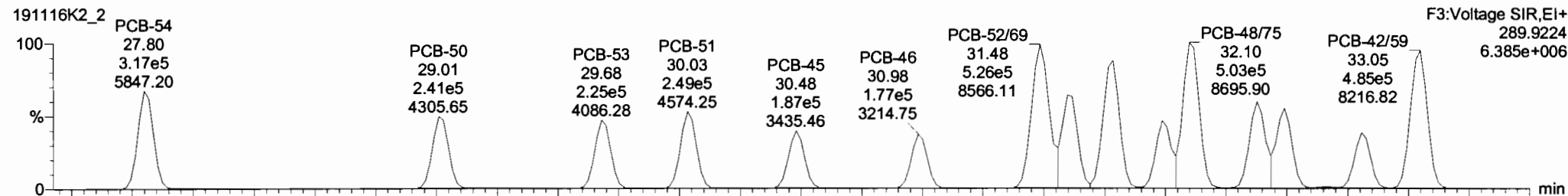
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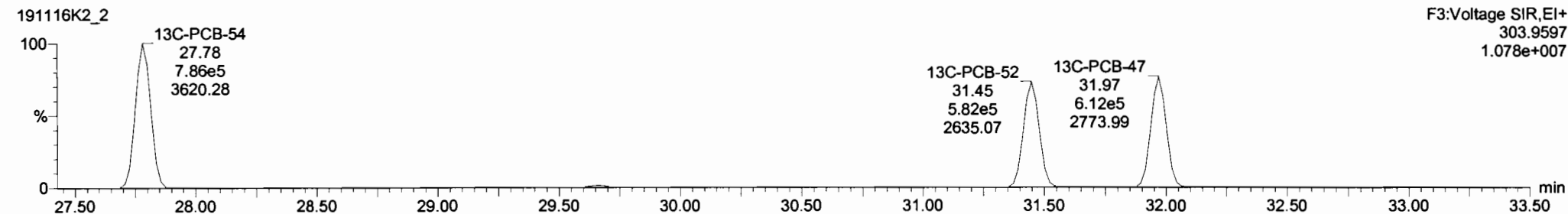
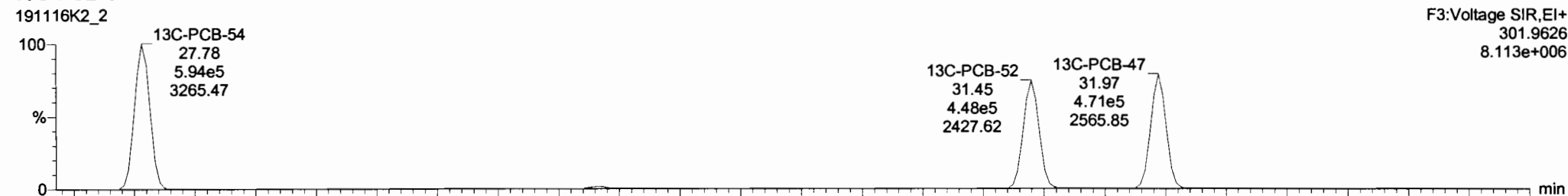
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Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-50**



**13C-PCB-52**

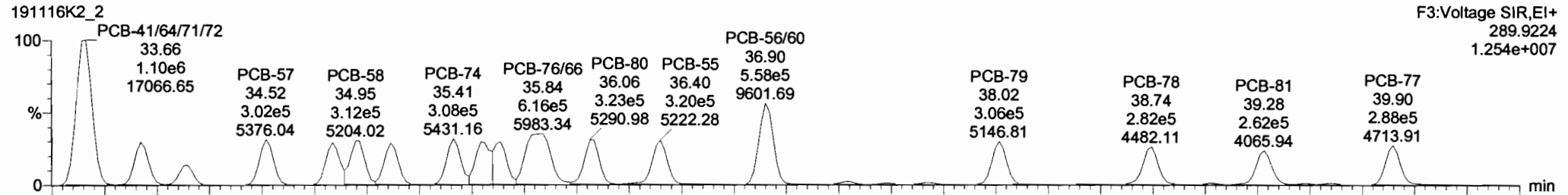


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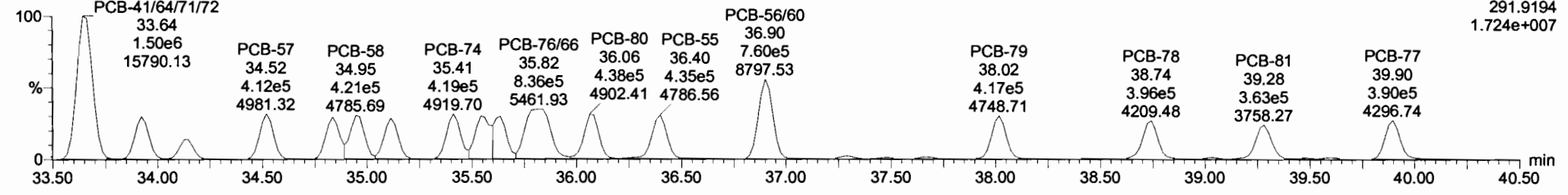
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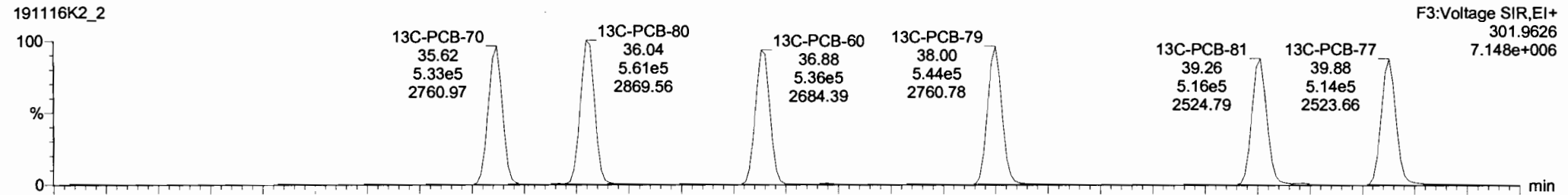
PCB-68



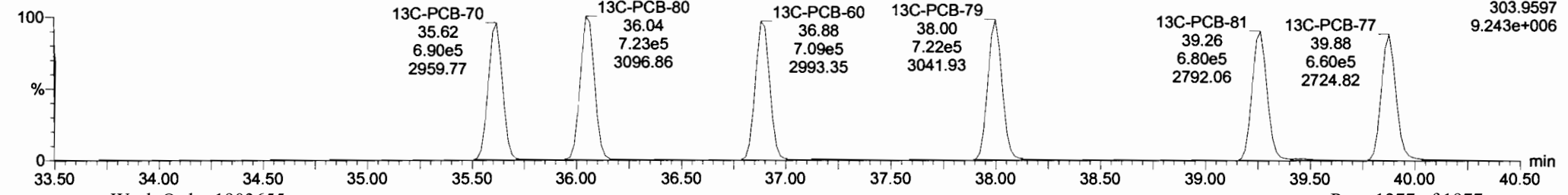
191116K2\_2



13C-PCB-60

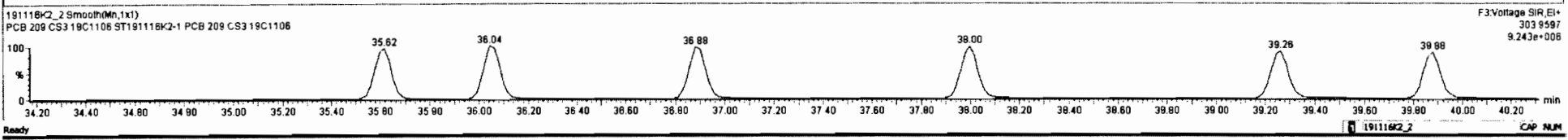
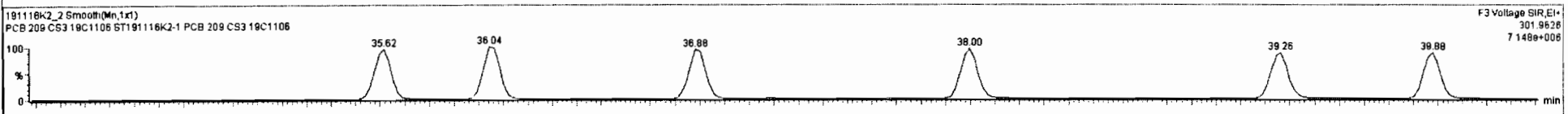
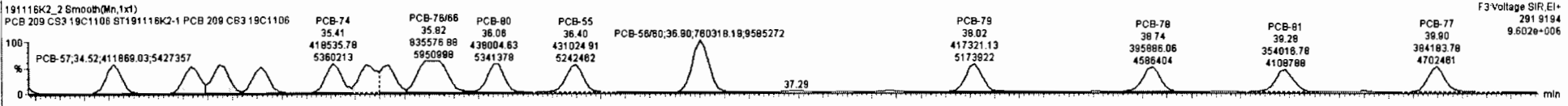
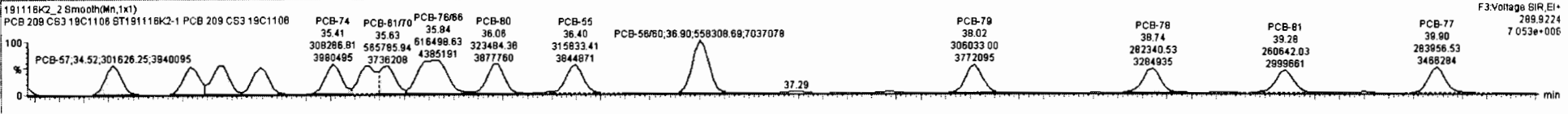


191116K2\_2



#	Name	Resp	RA	n/y	RNF	wtVal	Pred.RT	RT	Pred.R...	RRT	RRT Fall	Conc.	%Rec	DL	EMPC
221	221 13C-PCB-178	4.39e5	0.46	NO	0.8746	1.000	46.09	46.09	0.988	0.988	NO	82.75	82.8	0.0672	
222	222 13C-PCB-79	1.26e8	0.76	NO	1.0454	1.000	37.99	38.00	0.967	0.968	NO	100.8	101	0.0719	
223	223 13C-PCB-178	4.39e5	0.46	NO	0.9749	1.000	46.10	46.09	0.924	0.923	NO	96.73	96.7	0.0790	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	175.7		0.0272	175.7
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	627.9		0.201	627.9
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	444.4		0.0864	444.4
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	830.9		0.362	830.9
228	228 Total Tetra-PCBs				0.9891	1.000	0.00		0.000		NO	2284		0.804	2284
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	2195		0.854	2195
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	265.7		0.170	265.7

#	Name	Pred.RT	RT	int Resp	m2 Resp	1* Ratio (Prod)	RA	n/y	EMPC	Conc.
1	32 PCB-54	27.80	27.80	3.172e5	4.279e5	0.770	0.74	NO	54.215	54.215
2	33 PCB-50	29.04	29.01	2.408e5	3.307e5	0.770	0.73	NO	53.000	53.000
3	34 PCB-53	29.70	29.68	2.255e5	3.059e5	0.770	0.74	NO	53.981	53.981
4	35 PCB-51	30.02	30.03	2.492e5	3.448e5	0.770	0.72	NO	56.302	56.302
5	36 PCB-45	30.46	30.46	1.869e5	2.572e5	0.770	0.73	NO	53.334	53.334
6	37 PCB-46	30.98	30.98	1.773e5	2.391e5	0.770	0.74	NO	53.618	53.618
7	38 PCB-52/69	31.49	31.49	5.256e5	7.139e5	0.770	0.74	NO	110.15	110.15

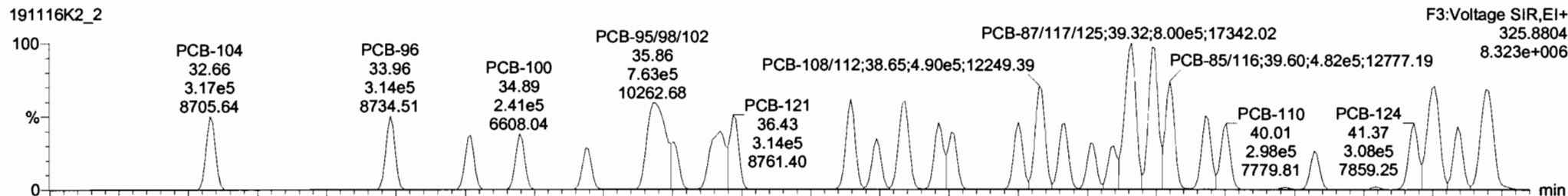


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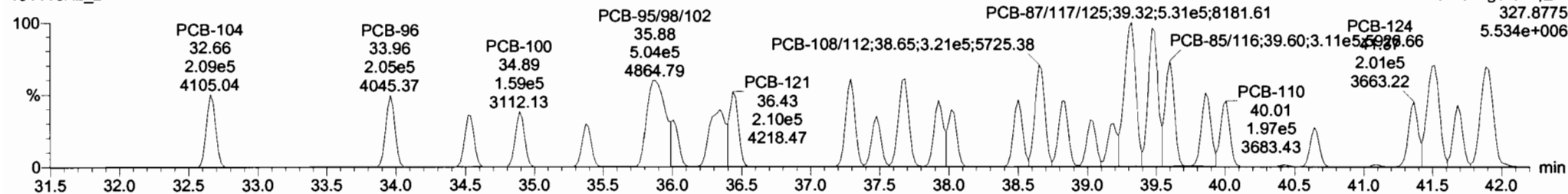
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Printed: Monday, November 18, 2019 08:47:38 Pacific Standard Time

Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

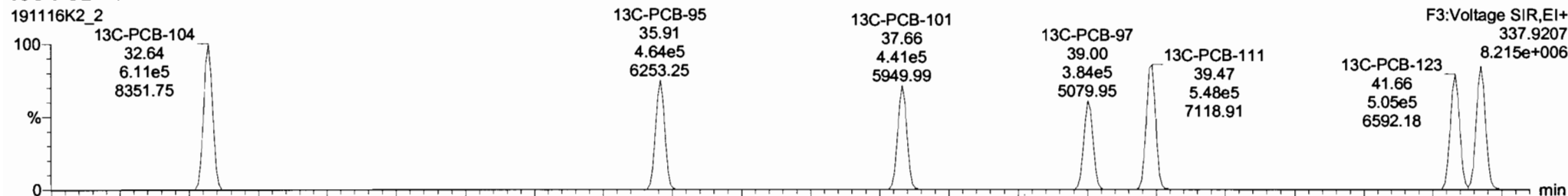
PCB-104



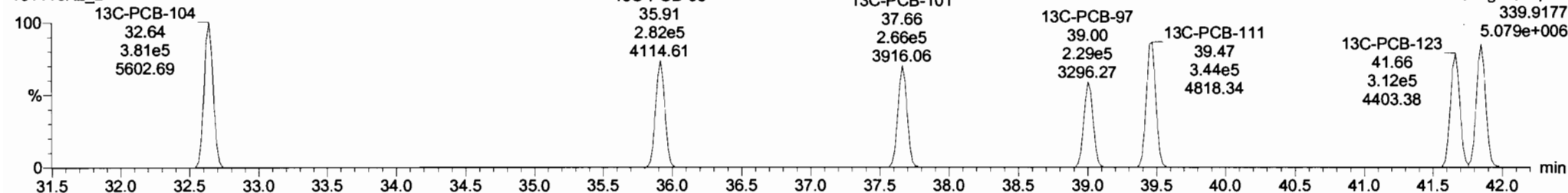
191116K2\_2



13C-PCB-104



191116K2\_2

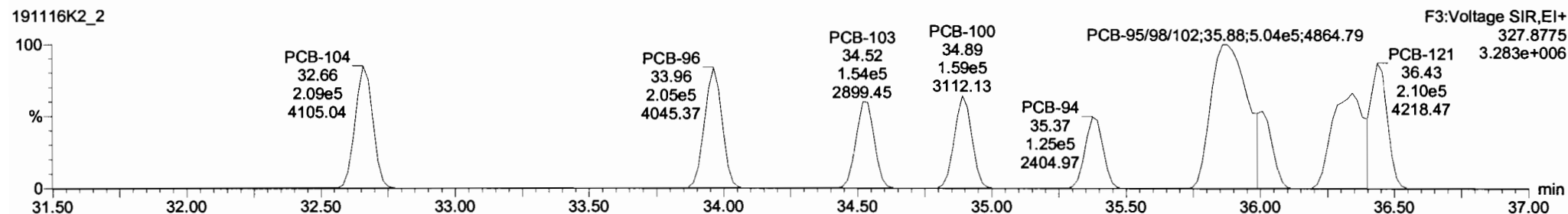
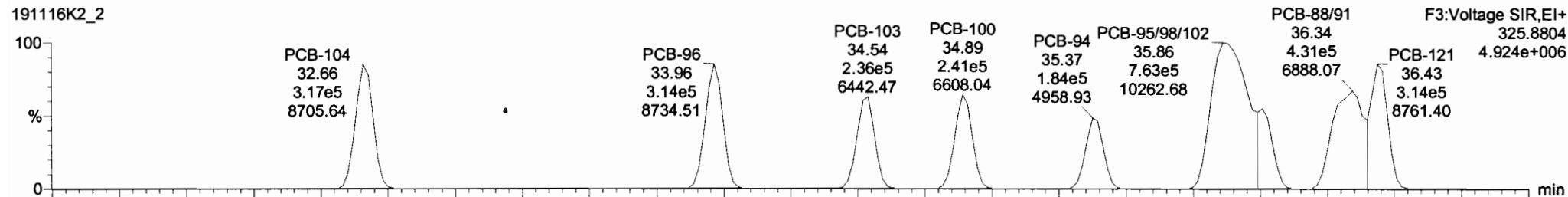


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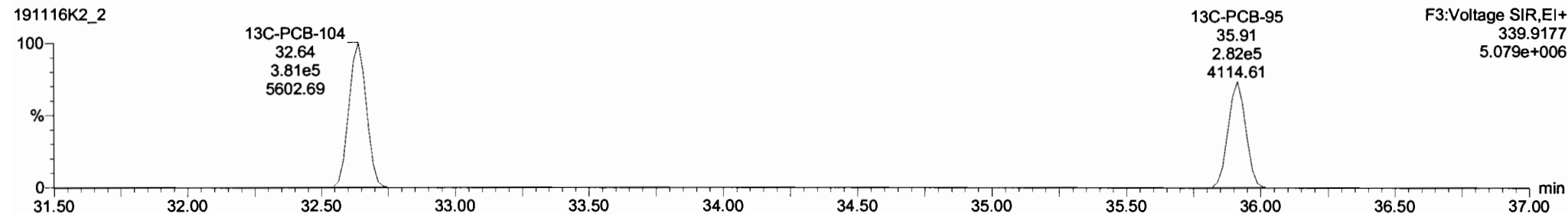
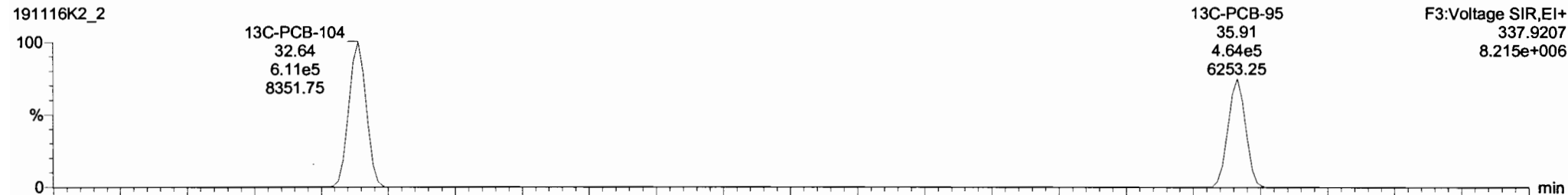
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Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

PCB-96



13C-PCB-95

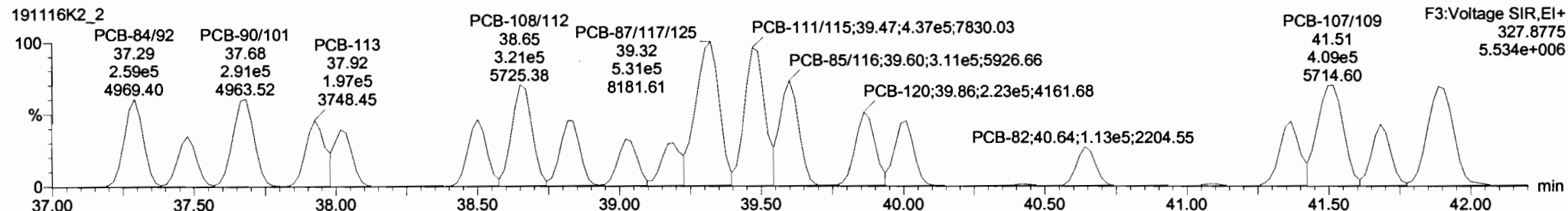
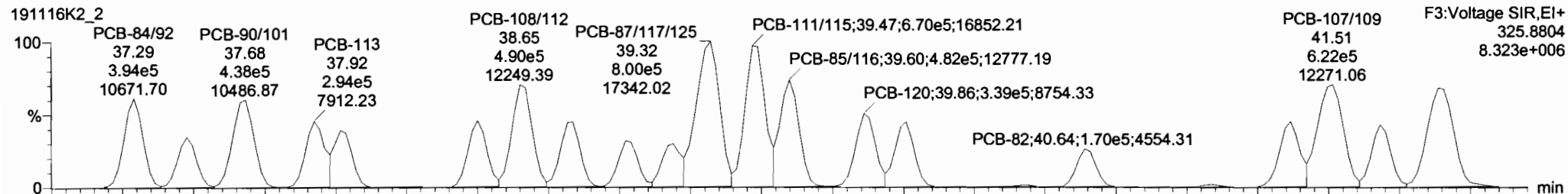


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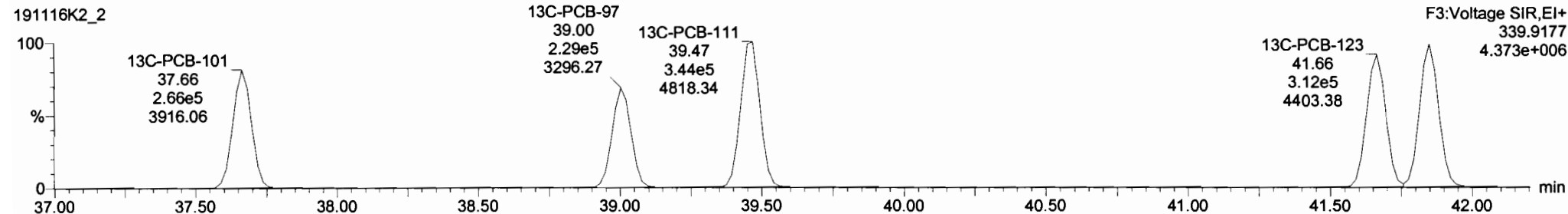
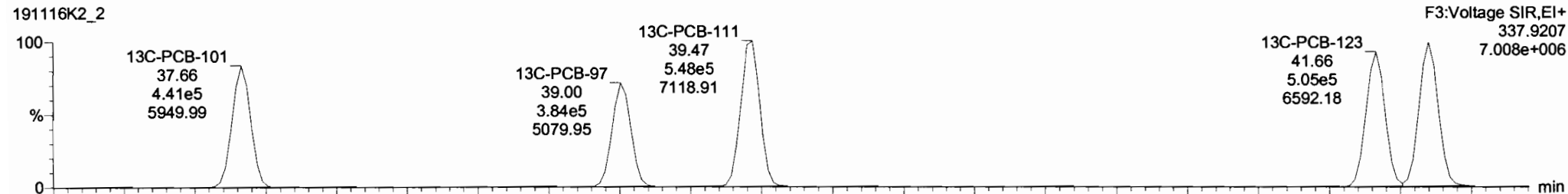
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Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

PCB-119

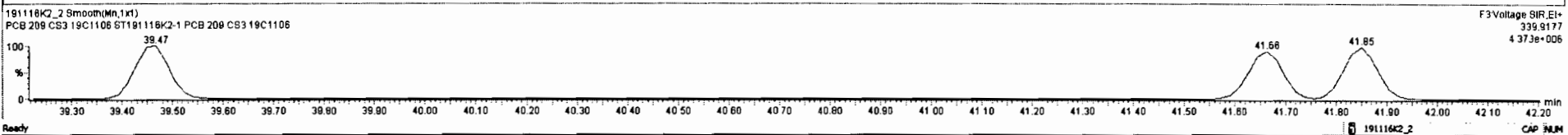
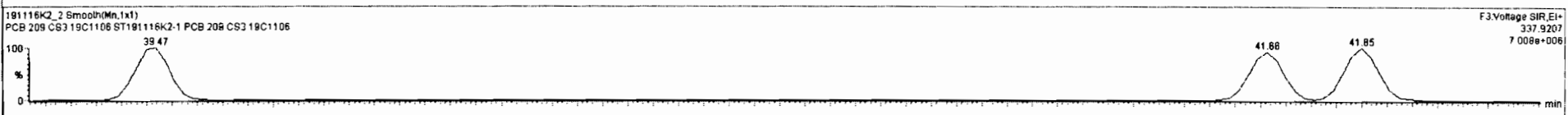
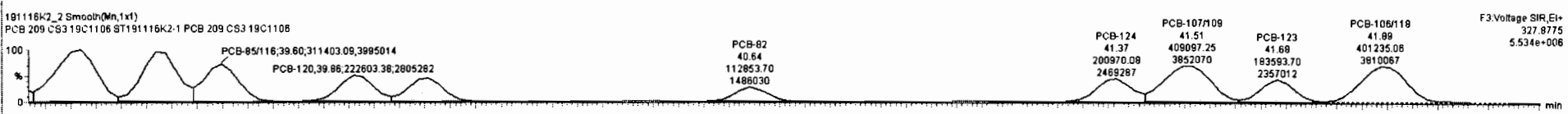
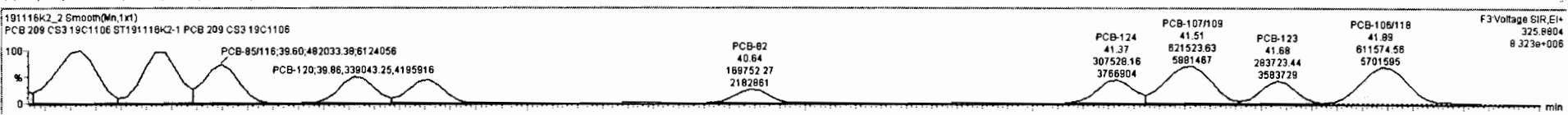


13C-PCB-111



#	Name	Resp	RA	rvy	RPF	wf/vol	Pred.RT	RT	Pred.R...	RPT	RRT Fail	Conc.	%Rec	DL	EMPC
221	13C-PCB-178	4.39e5	0.46	NO	0.8746	1.000	46.09	46.09	0.988	0.988	NO	82.75	82.8	0.0672	
222	13C-PCB-78	1.26e6	0.76	NO	1.0454	1.000	37.98	38.00	0.967	0.968	NO	100.8	101	0.0719	
223	13C-PCB-178	4.39e5	0.46	NO	0.8749	1.000	46.10	46.09	0.924	0.923	NO	98.73	98.7	0.0790	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	175.7		0.0272	175.7
225	Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	827.9		0.201	827.9
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	444.4		0.0864	444.4
227	3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	830.9		0.362	830.9
228	Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	2294		0.804	2294
229	2nd Function Penta-PCBs				1.1164	1.000	0.00		0.000		NO	2195		0.884	2195
230	4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	285.7		0.170	285.7
231	2nd Function Hexa-PCBs				0.9790	1.000	0.00		0.000		NO	788.0		0.300	788.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	rvy	EMPC	Conc.
1	64 PCB-104	32.86	32.86	3.174e5	2.088e5	1.560	1.52	NO	53.351	53.351
2	65 PCB-96	33.98	33.98	3.144e5	2.049e5	1.560	1.53	NO	52.577	52.577
3	66 PCB-103	34.55	34.54	2.365e5	1.538e5	1.580	1.54	NO	50.821	50.821
4	67 PCB-100	34.93	34.89	2.406e5	1.588e5	1.580	1.51	NO	51.784	51.784
5	68 PCB-94	35.39	35.37	1.836e5	1.248e5	1.560	1.47	NO	53.483	53.483
6	69 PCB-95/68/...	35.86	35.86	7.827e5	5.042e5	1.580	1.51	NO	167.48	167.48
7	70 PCB-93	35.99	36.01	1.657e5	1.072e5	1.580	1.54	NO	43.528	43.528





Dataset: Untitled

Last Altered: Monday, November 18, 2019 08:45:50 Pacific Standard Time

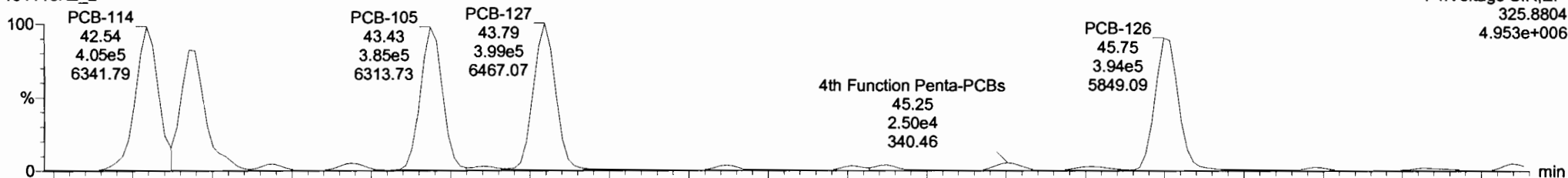
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Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-114**

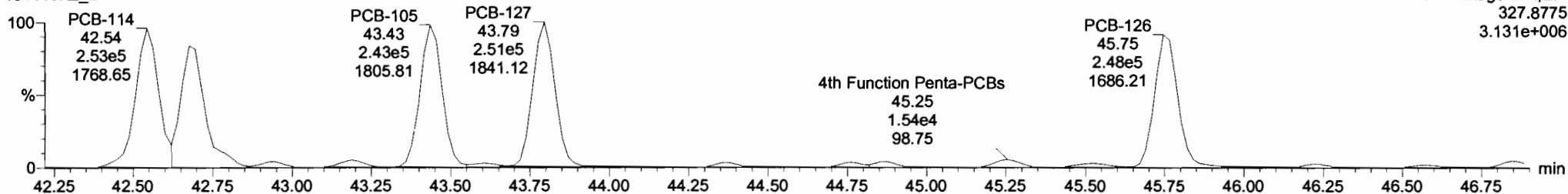
191116K2\_2

F4:Voltage SIR,EI+  
325.8804  
4.953e+006



191116K2\_2

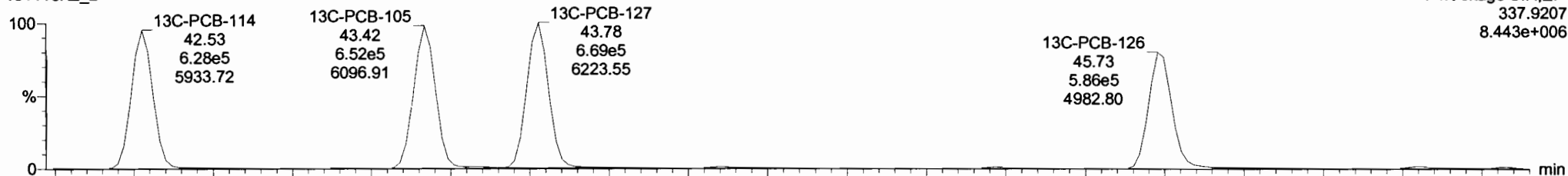
F4:Voltage SIR,EI+  
327.8775  
3.131e+006



**13C-PCB-114**

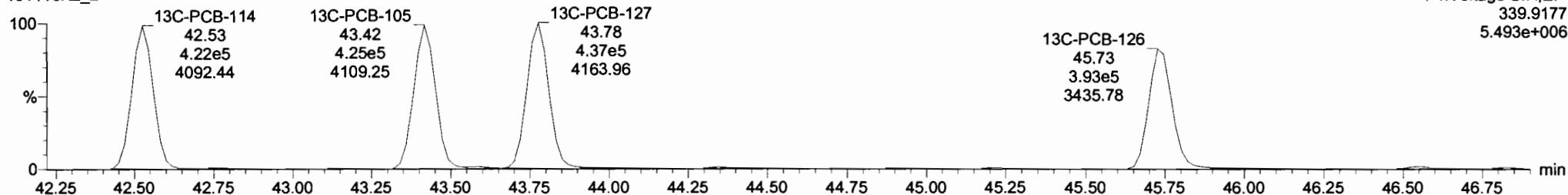
191116K2\_2

F4:Voltage SIR,EI+  
337.9207  
8.443e+006



191116K2\_2

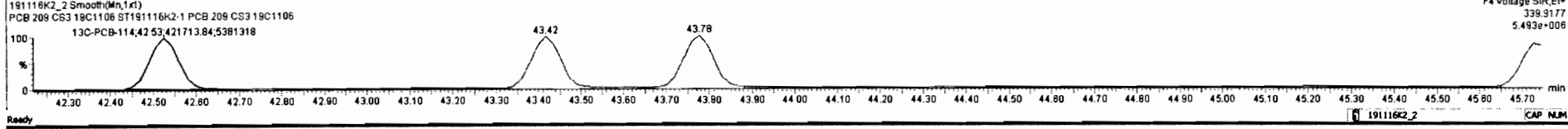
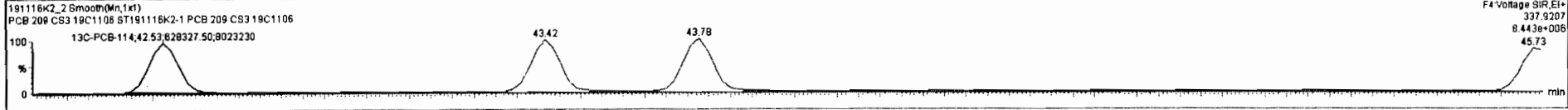
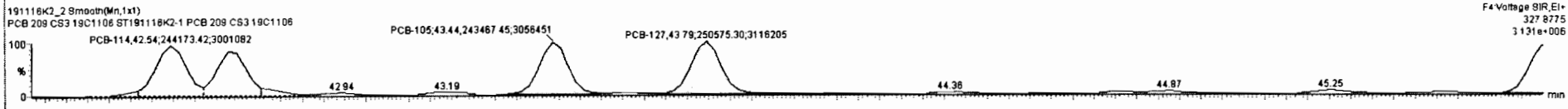
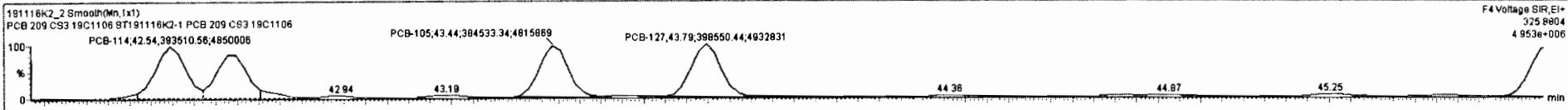
F4:Voltage SIR,EI+  
339.9177  
5.493e+006





#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
221	221 13C-PCB-178	4.39e5	0.46	NO	0.8746	1.000	46.08	46.09	0.998	0.998	NO	82.75	82.8	0.0672	
222	222 13C-PCB-79	1.26e5	0.76	NO	1.0454	1.000	37.99	38.00	0.967	0.968	NO	100.8	101	0.0719	
223	223 13C-PCB-178	4.39e5	0.46	NO	0.9749	1.000	46.10	46.09	0.924	0.923	NO	98.73	98.7	0.0790	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	175.7		0.0272	175.7
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	627.9		0.201	627.9
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	444.4		0.0864	444.4
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	830.9		0.362	830.9
228	228 Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	2294		0.804	2294
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	2195		0.654	2195
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	206.7		0.170	206.7

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	93 PCB-114	42.55	42.54	3.935e5	2.442e5	1.560	1.81	NO	52.282	52.282
2	94 PCB-122	42.67	42.68	3.944e5	2.111e5	1.560	1.58	NO	53.419	53.419
3	95 PCB-105	43.43	43.44	3.845e5	2.435e5	1.550	1.58	NO	52.975	52.975
4	96 PCB-127	43.78	43.79	3.988e5	2.506e5	1.580	1.59	NO	52.936	52.936
5	97 PCB-126	45.74	45.75	3.937e5	2.476e5	1.560	1.59	NO	54.060	54.060

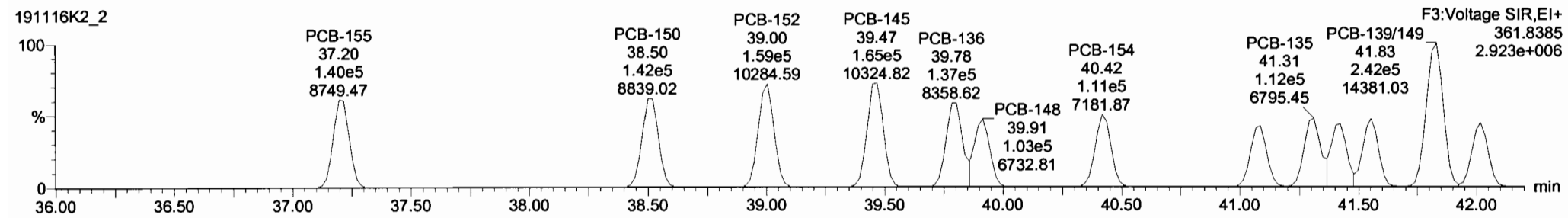
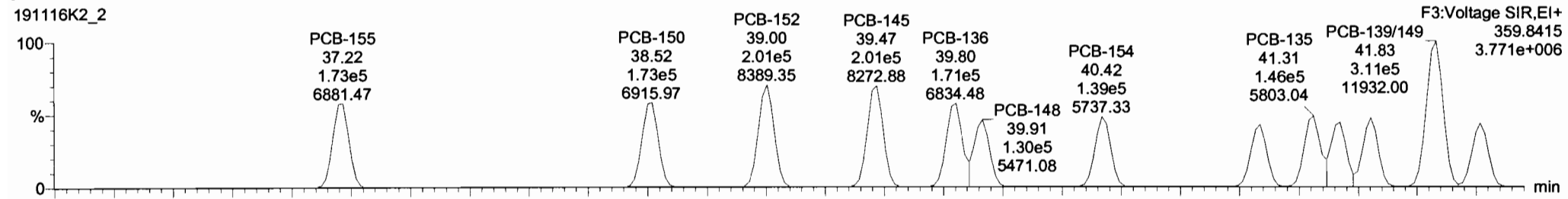


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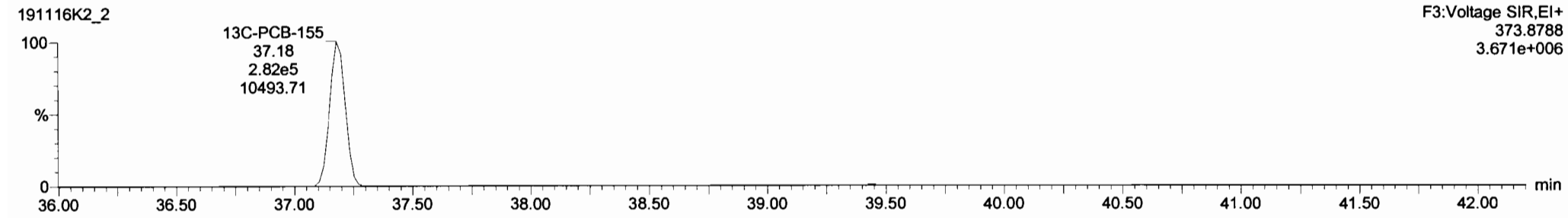
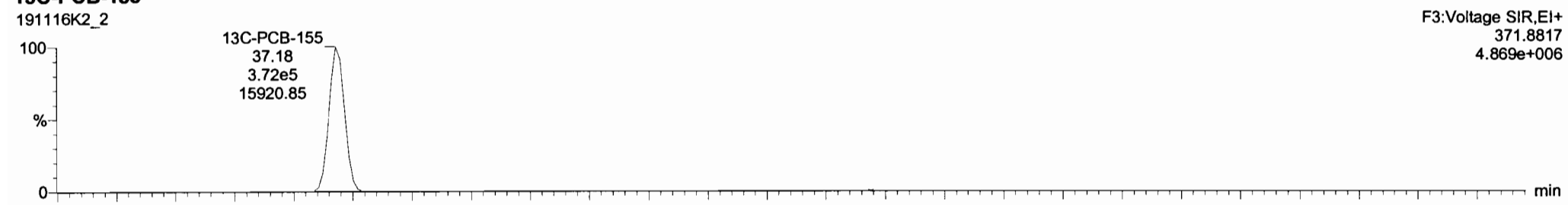
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Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-155**



**13C-PCB-155**

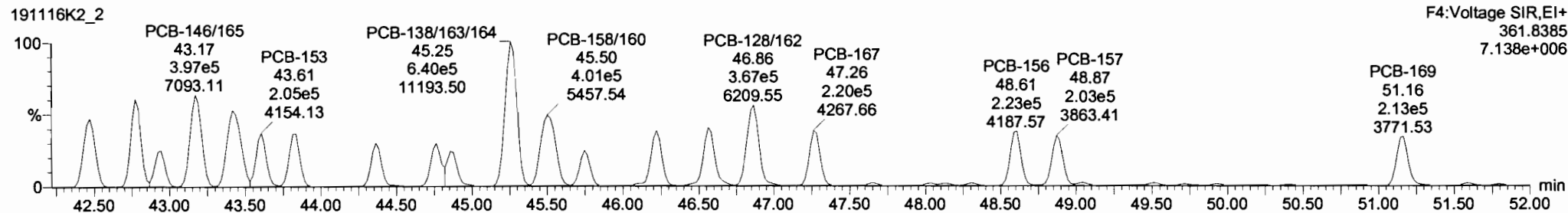
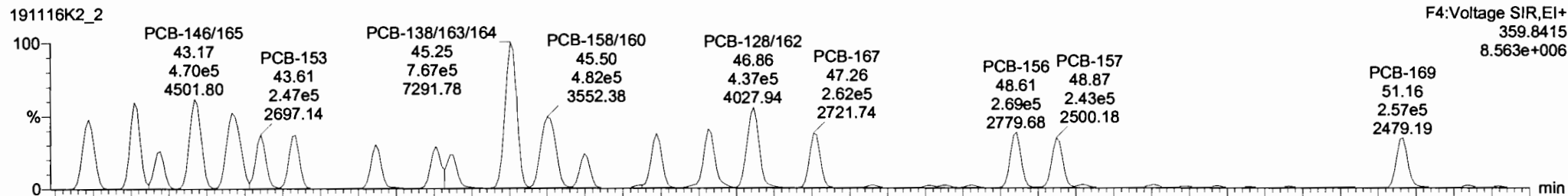


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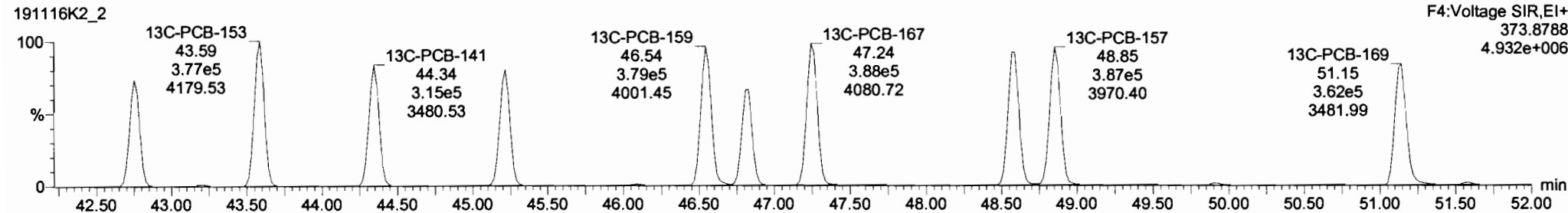
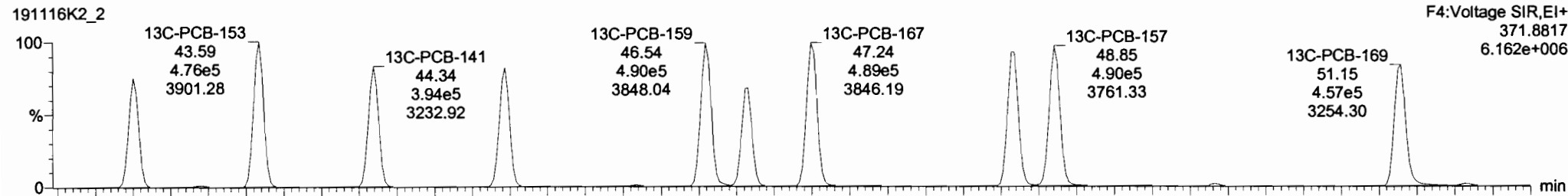
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PCB-134/143

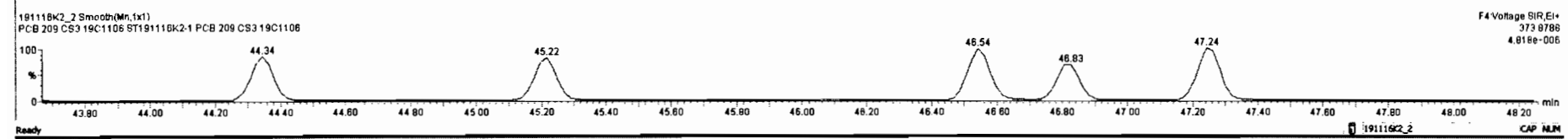
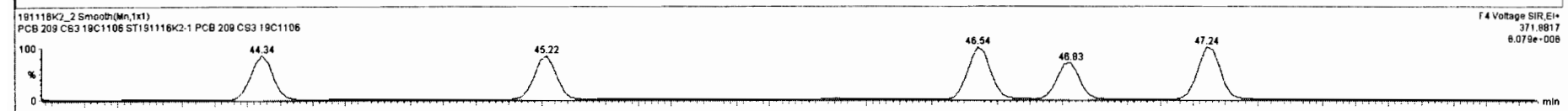
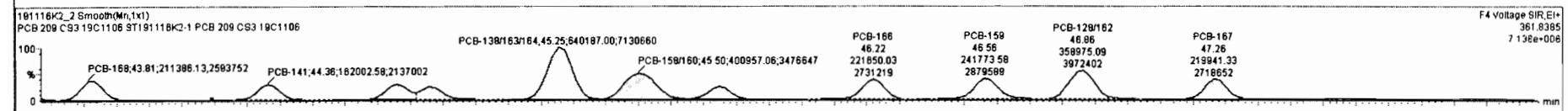
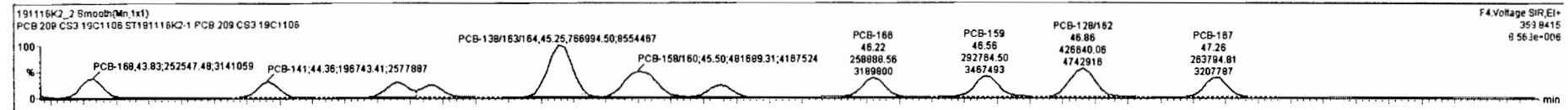


13C-PCB-153



#	Name	Resp	RA	n/y	RRF	wtAol	Prod.RT	RT	Prod.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	4th Function Nona-PCBs				0.9258	1.000	0.00		0.000		NO	1481		0.746	1481
233	Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	1233		0.926	1233
234	4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	465.5		0.164	465.5
235	5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	154.1		0.0584	154.1
236	Total Nona-PCBs				0.9446	1.000	0.00		0.000		NO	154.9		0.0545	154.9
237	Deca-CB				0.9426	1.000	0.00		0.000		NO	54.43		0.00529	54.43
238	Total PCBs														
239	Total Mono-lactopes														
240	Total Di-lactopes														
241	2nd Function Tri-lactopes														

#	Name	Prod.RT	RT	Int Resp	m2 Resp	1* Ratio (Prod)	RA	n/y	EMPC	Conc.
1	111 PCB-134/143	42.49	42.47	3.624e5	2.894e5	1.240	1.21	NO	105.88	105.88
2	112 PCB-131/133	42.78	42.77	3.953e5	3.339e5	1.240	1.18	NO	108.29	108.29
3	113 PCB-142	42.93	42.94	1.720e5	1.404e5	1.240	1.23	NO	51.782	51.782
4	114 PCB-148/165	43.19	43.17	4.699e5	3.966e5	1.240	1.18	NO	105.97	105.97
5	115 PCB-132/161	43.42	43.42	4.774e5	4.031e5	1.240	1.18	NO	106.03	106.03
6	116 PCB-153	43.80	43.80	2.472e5	2.048e5	1.240	1.21	NO	52.403	52.403
7	117 PCB-168	43.83	43.83	2.525e5	2.114e5	1.240	1.20	NO	53.401	53.401

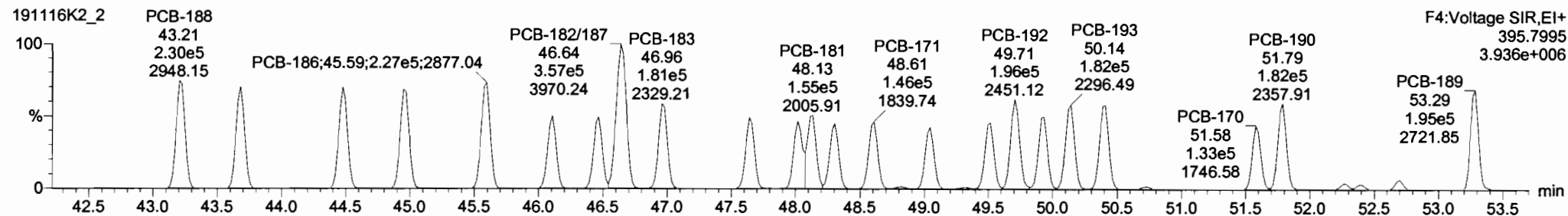
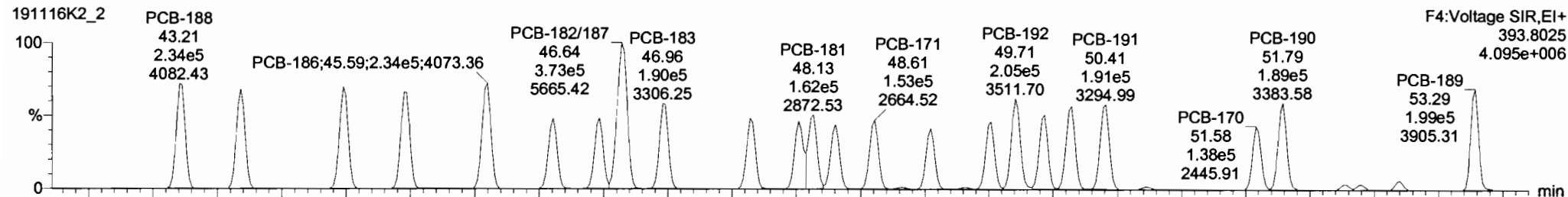


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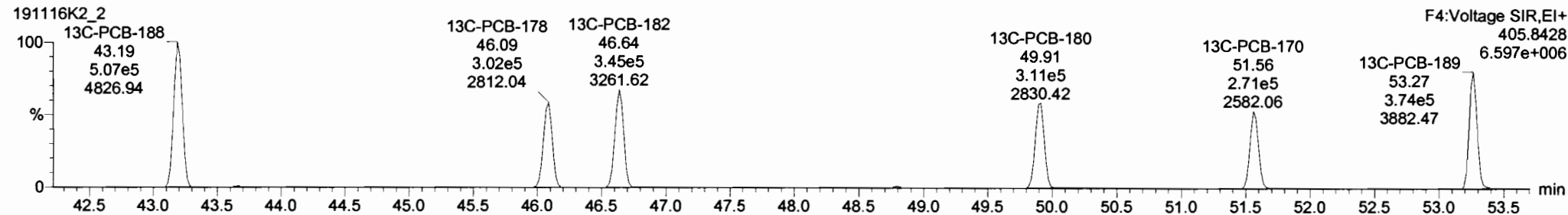
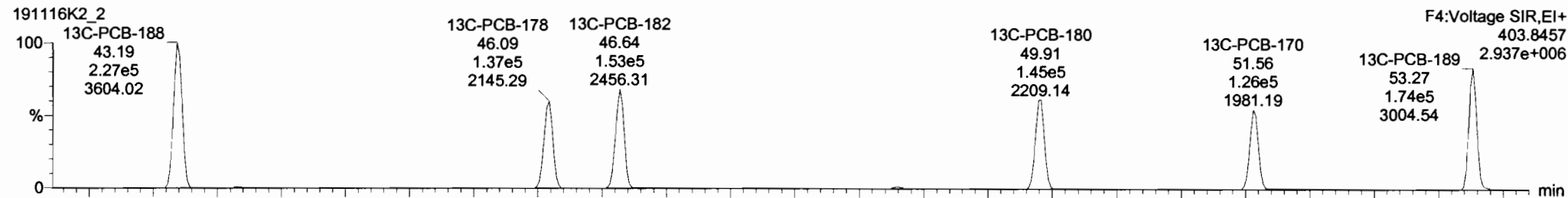
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Printed: Monday, November 18, 2019 08:47:38 Pacific Standard Time

Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

PCB-188



13C-PCB-188

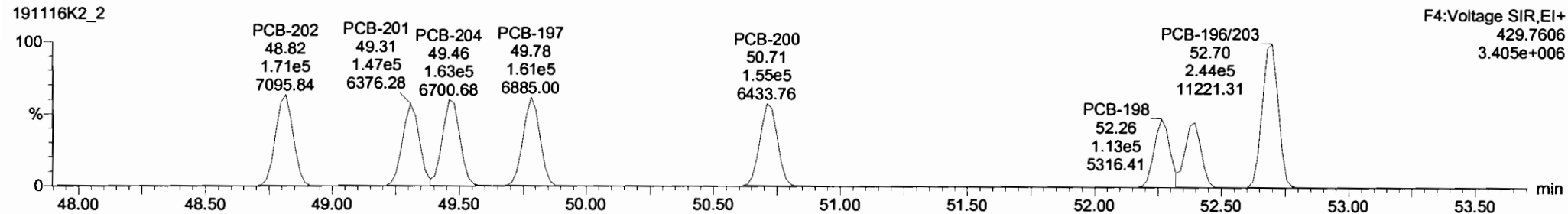
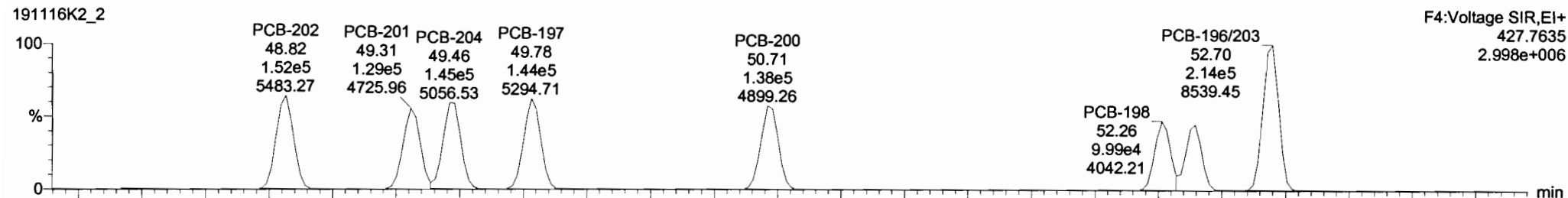


Dataset: Untitled

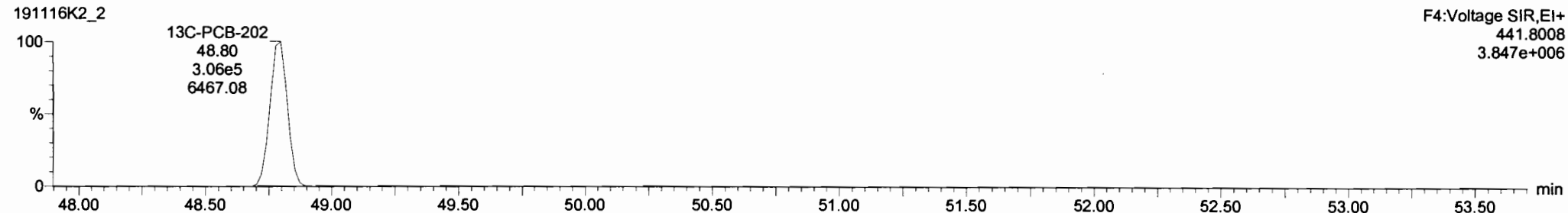
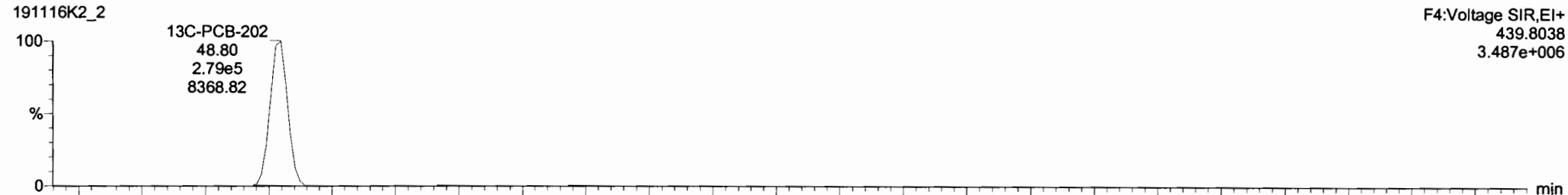
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Printed: Monday, November 18, 2019 08:47:38 Pacific Standard Time

Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

PCB-202



13C-PCB-202



Dataset: Untitled

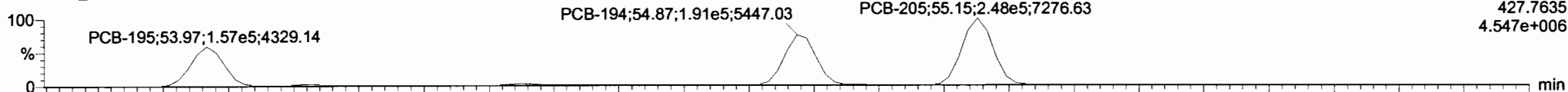
Last Altered: Monday, November 18, 2019 08:45:50 Pacific Standard Time

Printed: Monday, November 18, 2019 08:47:38 Pacific Standard Time

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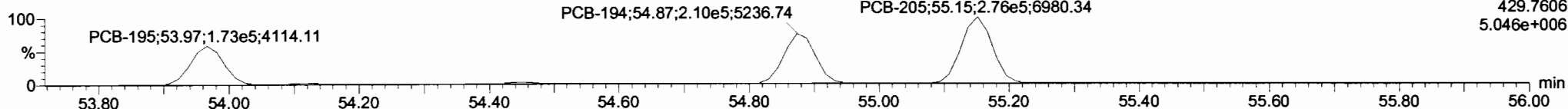
**PCB-195**

191116K2\_2



F5:Voltage SIR,EI+  
427.7635  
4.547e+006

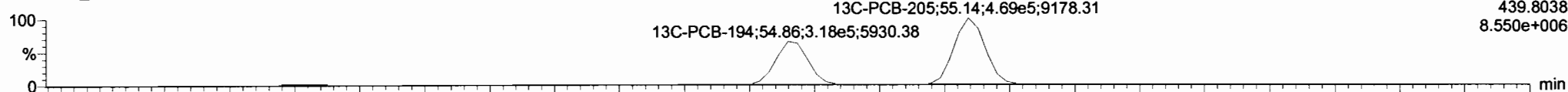
191116K2\_2



F5:Voltage SIR,EI+  
429.7606  
5.046e+006

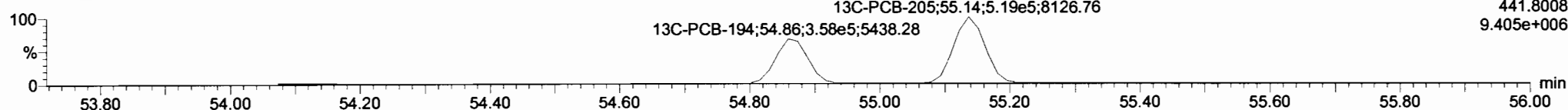
**13C-PCB-194**

191116K2\_2



F5:Voltage SIR,EI+  
439.8038  
8.550e+006

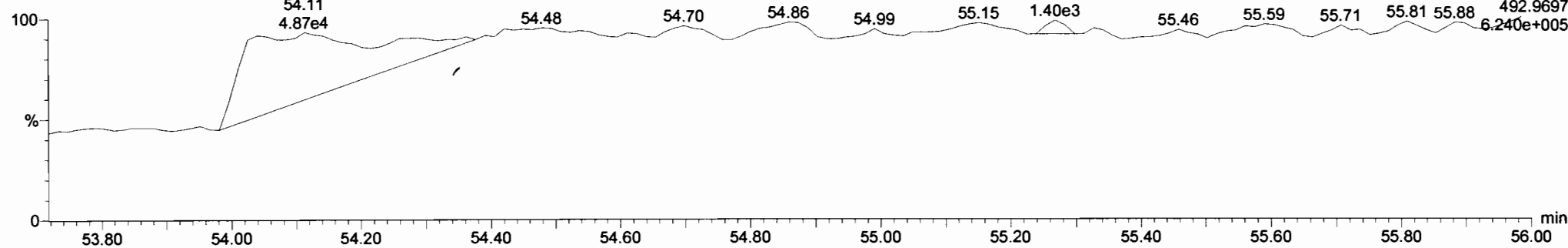
191116K2\_2



F5:Voltage SIR,EI+  
441.8008  
9.405e+006

**PFK5**

191116K2\_2



F5:Voltage SIR,EI+  
492.9697  
6.240e+005



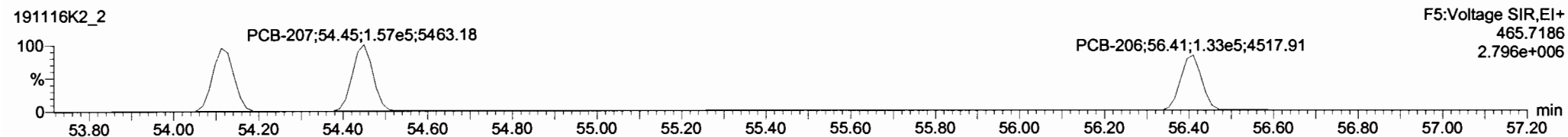
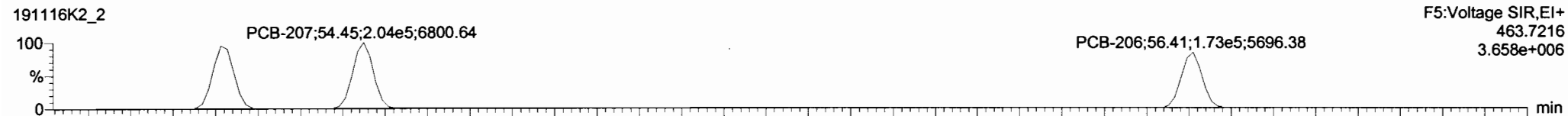
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Last Altered: Monday, November 18, 2019 08:45:50 Pacific Standard Time

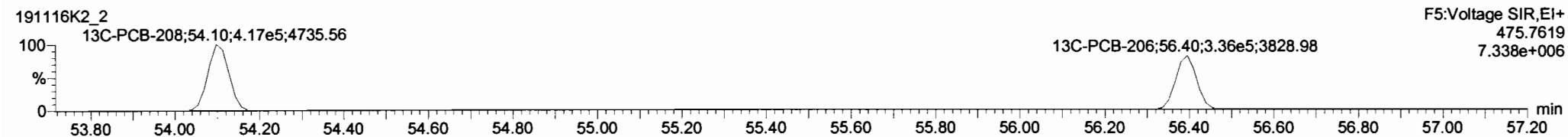
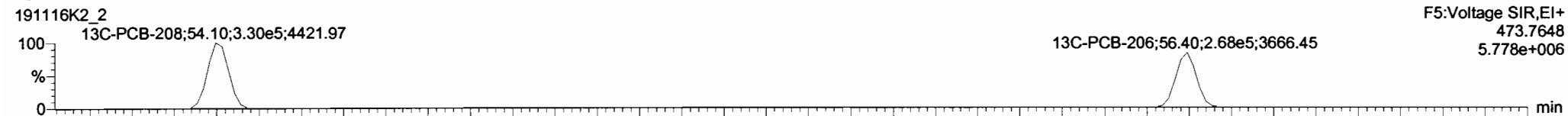
Printed: Monday, November 18, 2019 08:47:38 Pacific Standard Time

Name: 191116K2\_2, Date: 17-Nov-2019, Time: 05:02:28, ID: ST191116K2-1 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

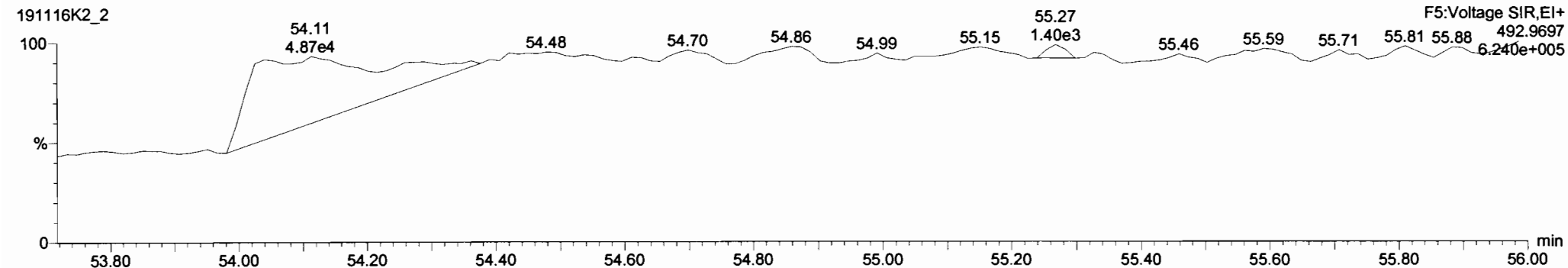
### PCB-208



### 13C-PCB-208



### PFK5



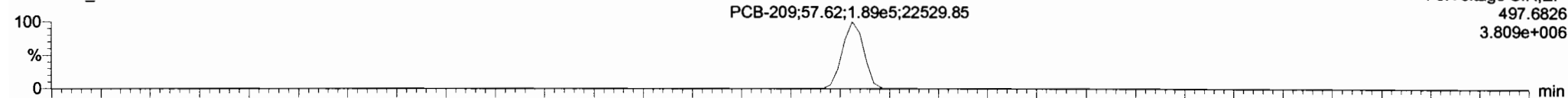
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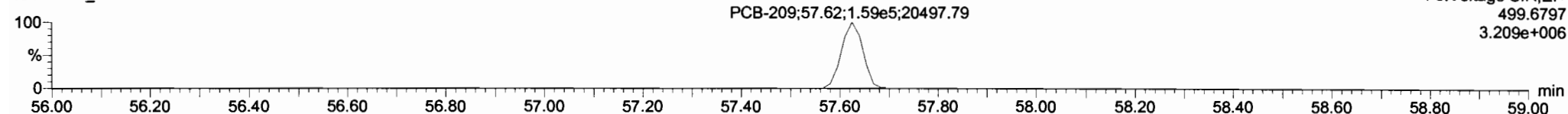
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**PCB-209**

191116K2\_2

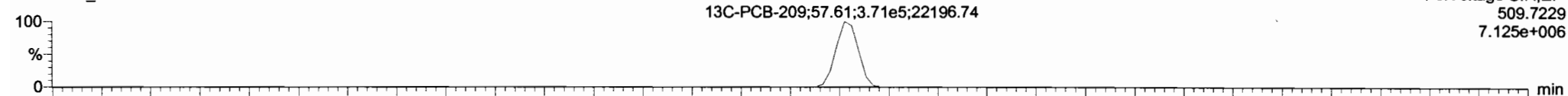


191116K2\_2

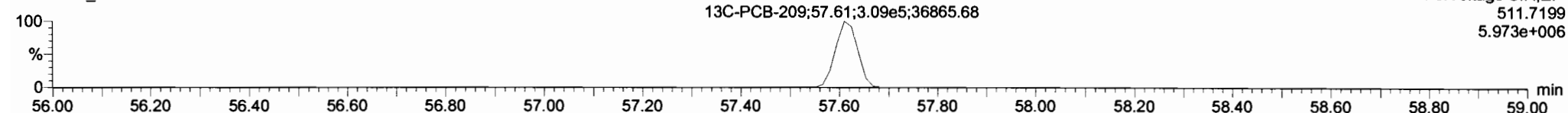


**13C-PCB-209**

191116K2\_2

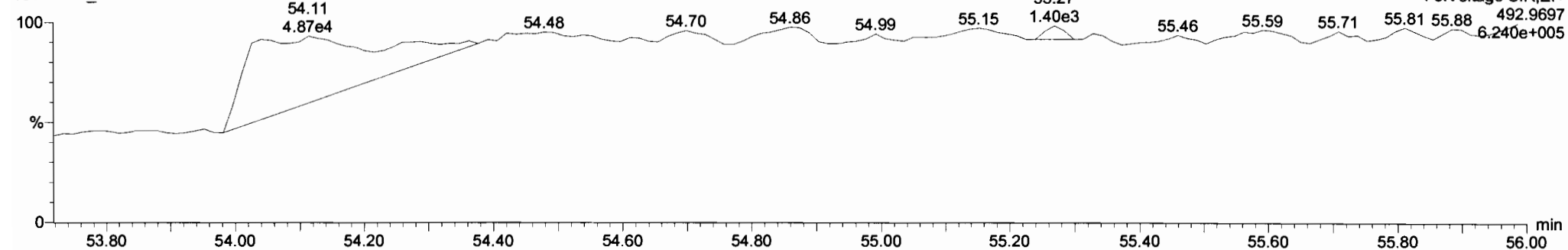


191116K2\_2



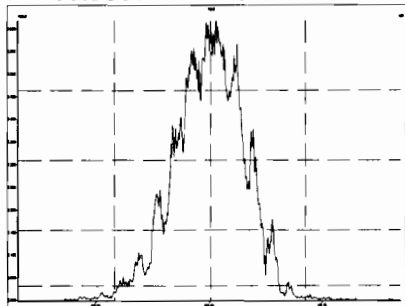
**PFK5**

191116K2\_2

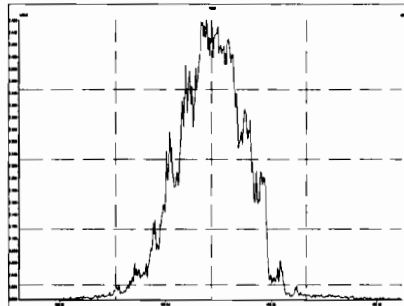


Ⓐ did not centroid

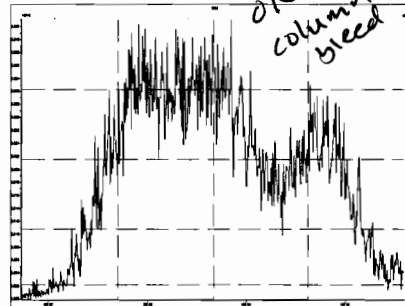
M 168.9888 R 12462



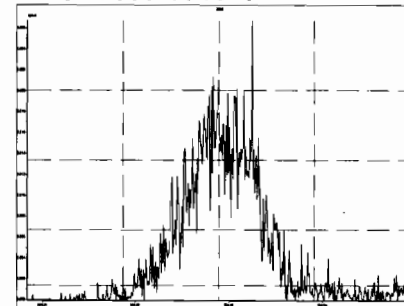
M 180.9888 R 12470



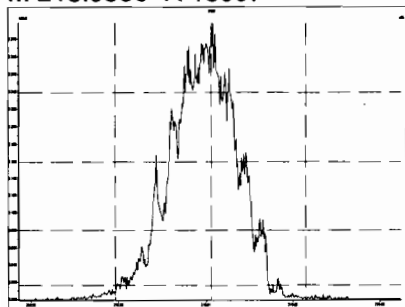
M 192.9888 R 6097



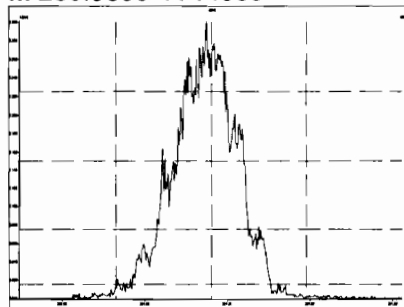
M 204.9888 R 15497



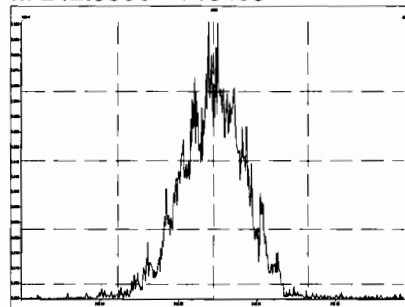
M 218.9856 R 13097



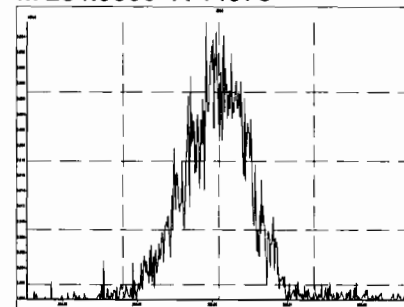
M 230.9856 R 14089



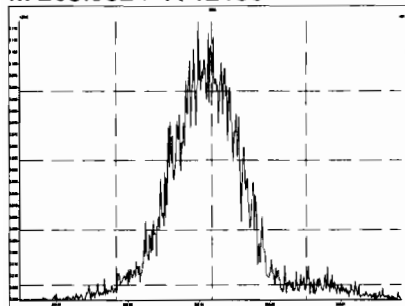
M 242.9856 R 13405



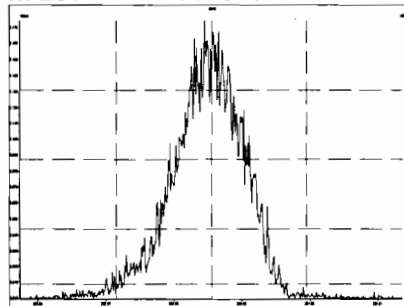
M 254.9856 R 14973



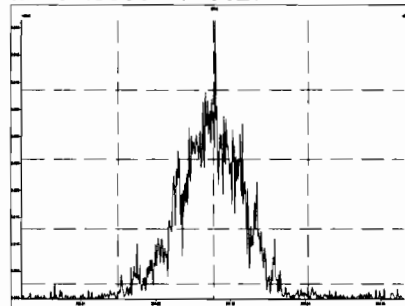
M 268.9824 R 12186



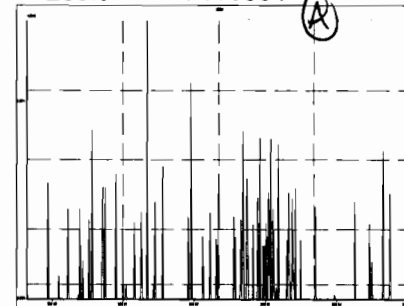
M 280.9824 R 12048



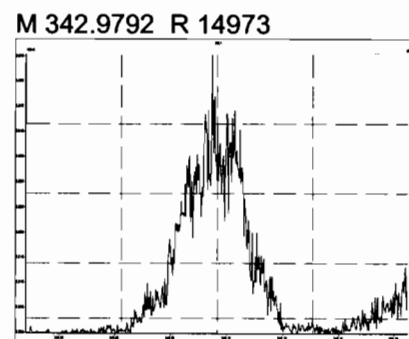
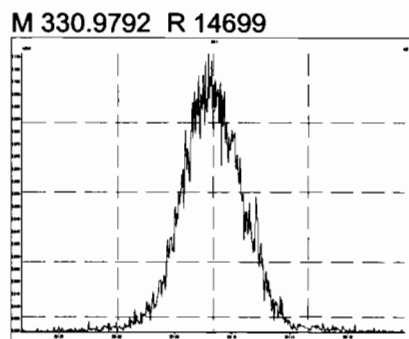
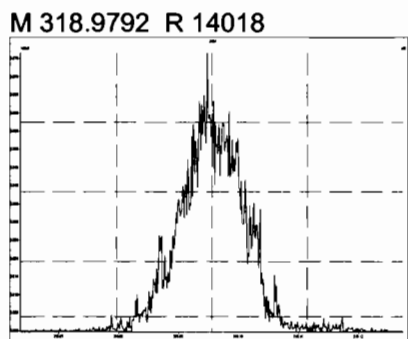
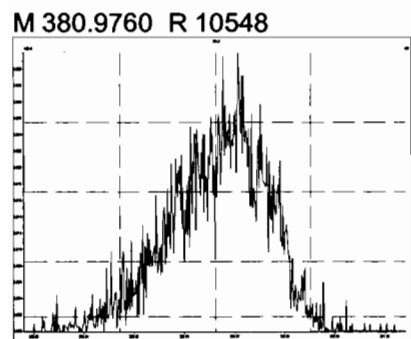
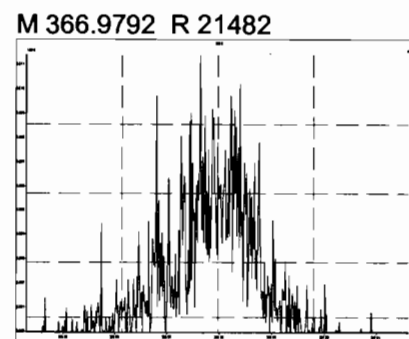
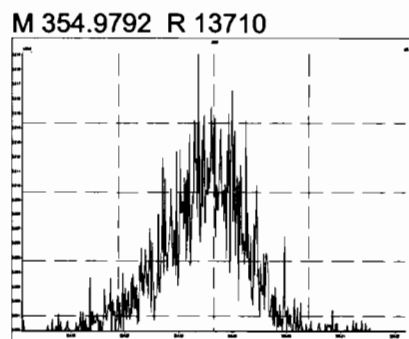
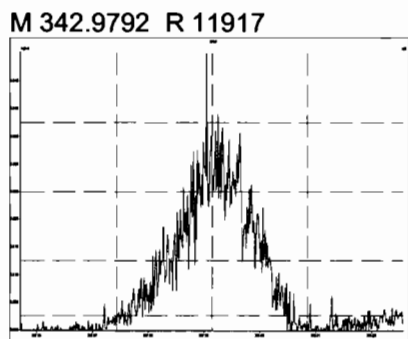
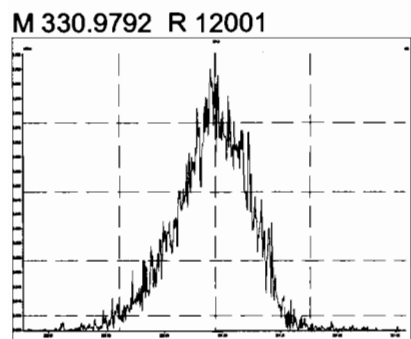
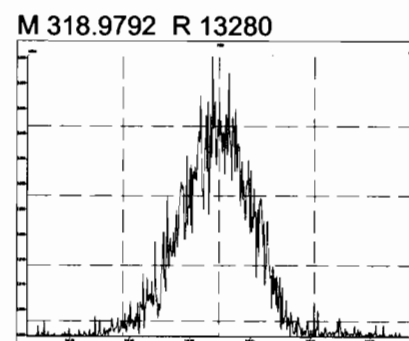
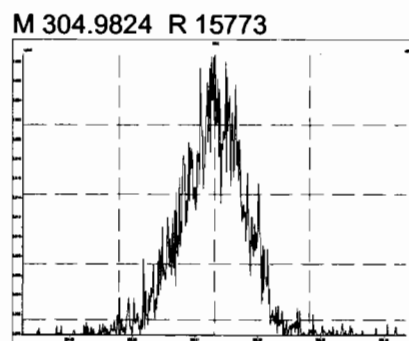
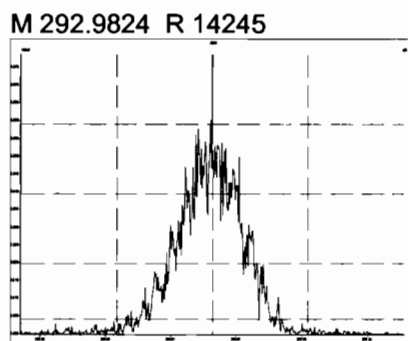
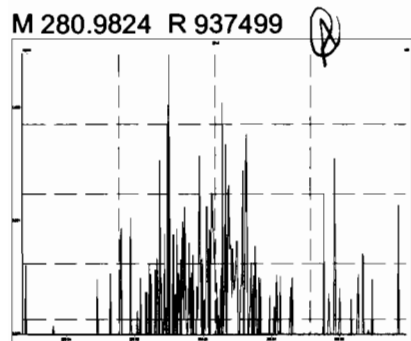
M 254.9856 R 15627

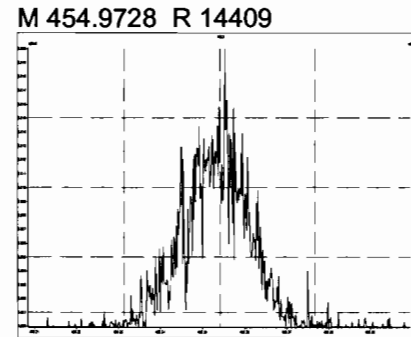
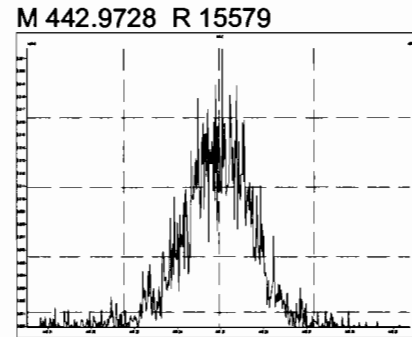
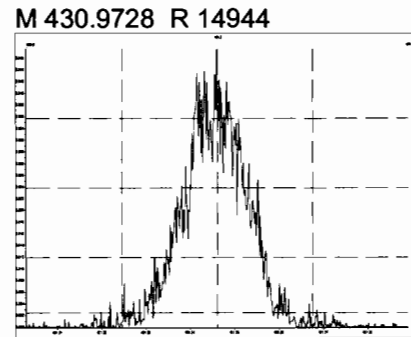
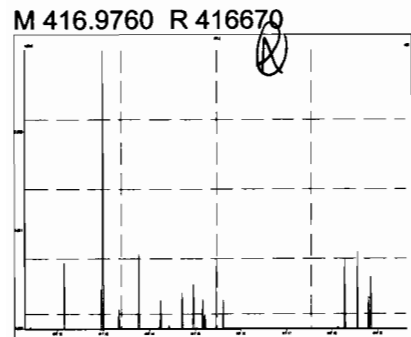
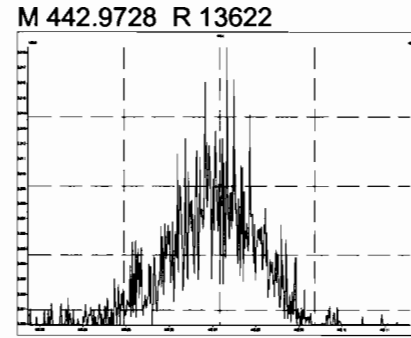
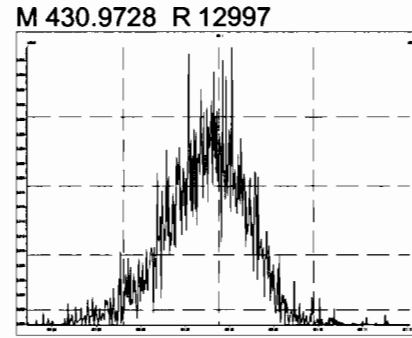
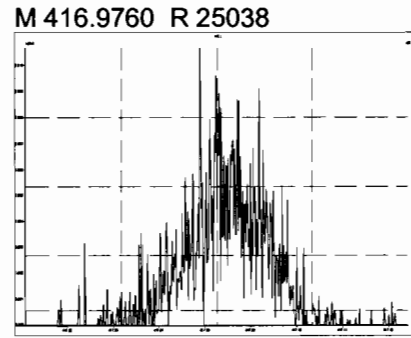
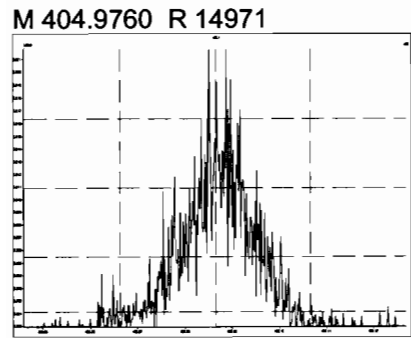
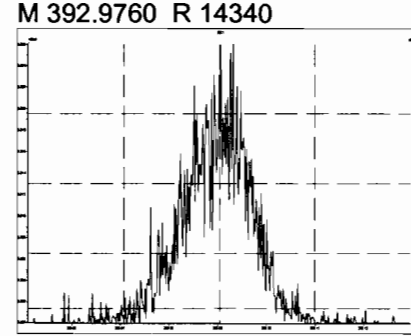
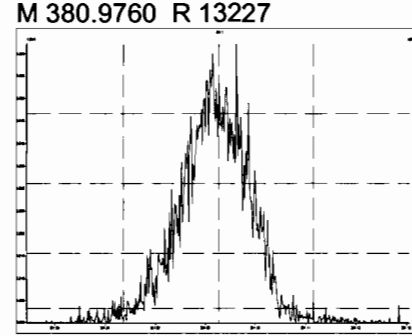
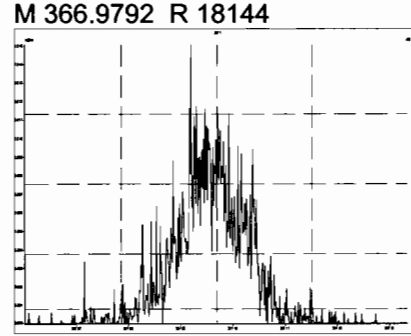
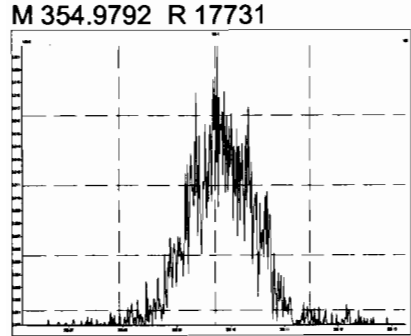


M 268.9824 R 416664



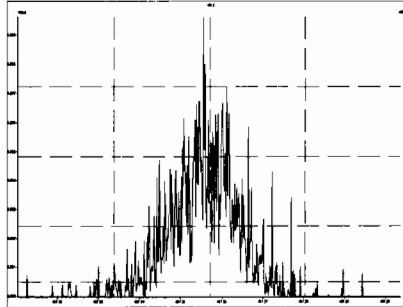
Printed: Sunday, November 17, 2019 16:24:21 Pacific Standard Time



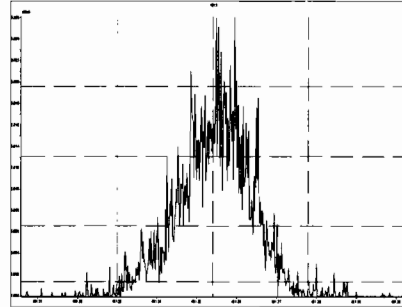


Printed: Sunday, November 17, 2019 16:24:21 Pacific Standard Time

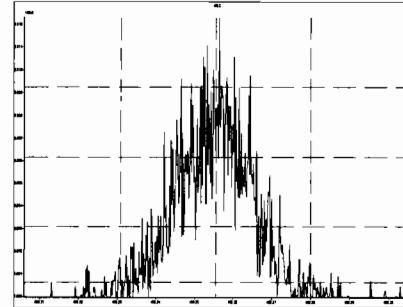
M 466.9728 R 19935



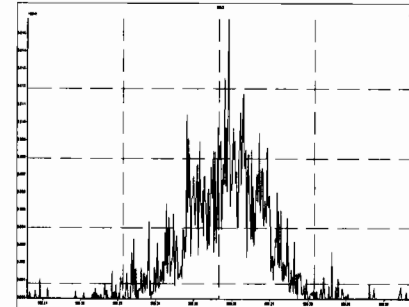
M 480.9696 R 13298



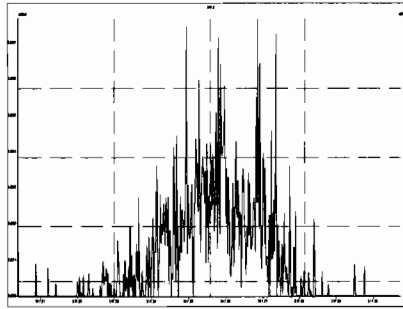
M 492.9696 R 16654



M 504.9696 R 17637



M 516.9697 R 23390



## **INITIAL CALIBRATION**

## Initial Calibration RRF Summary (ICAL)

Vista Analytical Laboratory

Run: 191009D1

Analyte:

Cal: 1613VG7-10-9-19

Inst. ID: VG-7

Data filename: 191009D1

Samp# 1	Samp# 2	Samp# 3	Samp# 4	Samp# 5	Samp# 6
0.25	0.50	2.0	10	40	300

Name	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6
2,3,7,8-TCDD	0.9053	7.55 %	0.84	0.83	0.87	0.99	0.92	0.98
1,2,3,7,8-PeCDD	0.9027	4.95 %	0.86	0.87	0.88	0.88	0.96	0.96
1,2,3,4,7,8-HxCDD	1.1013	3.97 %	1.12	1.13	1.03	1.08	1.09	1.15
1,2,3,6,7,8-HxCDD	0.9386	7.68 %	0.83	0.88	1.01	0.92	0.98	1.00
1,2,3,7,8,9-HxCDD	0.9613	4.62 %	0.95	0.90	0.93	0.95	1.00	1.03
1,2,3,4,6,7,8-HpCDD	0.9794	5.84 %	0.90	0.97	0.95	0.96	1.03	1.06
OCDD	0.9585	4.07 %	0.93	0.94	0.92	0.94	1.01	1.01
2,3,7,8-TCDF	0.9501	8.27 %	1.09	0.90	0.89	0.89	0.95	0.99
1,2,3,7,8-PeCDF	0.9603	4.05 %	0.94	0.94	0.92	0.95	1.00	1.01
2,3,4,7,8-PeCDF	1.0148	3.01 %	1.00	0.99	1.00	1.00	1.03	1.07
1,2,3,4,7,8-HxCDF	1.1768	4.35 %	1.23	1.11	1.15	1.14	1.20	1.24
1,2,3,6,7,8-HxCDF	1.0689	3.63 %	1.01	1.07	1.06	1.05	1.12	1.11
2,3,4,6,7,8-HxCDF	1.1136	5.58 %	1.06	1.03	1.12	1.11	1.16	1.20
1,2,3,7,8,9-HxCDF	1.0616	3.91 %	1.05	1.02	1.02	1.06	1.08	1.13
1,2,3,4,6,7,8-HpCDF	1.1276	3.90 %	1.13	1.13	1.06	1.10	1.17	1.18
1,2,3,4,7,8,9-HpCDF	1.2799	3.29 %	1.30	1.24	1.25	1.25	1.31	1.34
OCDF	0.9472	3.80 %	0.95	0.92	0.91	0.92	1.00	0.98
13C-2,3,7,8-TCDD	1.0954	1.91 %	1.11	1.08	1.06	1.10	1.12	1.11
13C-1,2,3,7,8-PeCDD	0.8814	5.11 %	0.89	0.86	0.83	0.86	0.89	0.96
13C-1,2,3,4,7,8-HxCDD	0.6421	10.35 %	0.65	0.60	0.58	0.61	0.65	0.77
13C-1,2,3,6,7,8-HxCDD	0.8555	4.13 %	0.86	0.87	0.82	0.87	0.80	0.90
13C-1,2,3,7,8,9-HxCDD	0.8066	5.57 %	0.84	0.80	0.76	0.80	0.76	0.88
13C-1,2,3,4,6,7,8-HpCDD	0.6539	9.07 %	0.70	0.63	0.59	0.62	0.63	0.75
13C-OCDD	0.5797	10.98 %	0.60	0.52	0.53	0.55	0.59	0.69
13C-2,3,7,8-TCDF	1.0349	1.62 %	1.04	1.00	1.03	1.05	1.04	1.04
13C-1,2,3,7,8-PeCDF	0.8542	4.58 %	0.84	0.82	0.82	0.87	0.86	0.92
13C-2,3,4,7,8-PeCDF	0.8471	3.79 %	0.81	0.84	0.83	0.84	0.85	0.91
13C-1,2,3,4,7,8-HxCDF	0.8317	8.50 %	0.76	0.80	0.79	0.86	0.83	0.96
13C-1,2,3,6,7,8-HxCDF	1.0344	5.35 %	1.00	1.03	1.03	1.03	0.98	1.14
13C-2,3,4,6,7,8-HxCDF	0.9533	6.17 %	0.94	0.94	0.90	0.93	0.93	1.07
13C-1,2,3,7,8,9-HxCDF	0.8277	8.68 %	0.82	0.80	0.77	0.78	0.83	0.96
13C-1,2,3,4,6,7,8-HpCDF	0.7575	6.47 %	0.76	0.73	0.72	0.75	0.73	0.85
13C-1,2,3,4,7,8,9-HpCDF	0.5812	8.97 %	0.62	0.54	0.52	0.55	0.58	0.66
13C-OCDF	0.6890	12.48 %	0.69	0.62	0.62	0.65	0.72	0.85
37Cl-2,3,7,8-TCDD	1.1977	8.83 %	1.40	1.16	1.16	1.11	1.15	1.21
13C-1,2,3,4-TCDD	1.0000	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-1,2,3,4-TCDF	1.0000	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-1,2,3,4,6,9-HxCDF	1.0000	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00

DB CT  
10/10/19 10/10/19



Filename: 191009D1 S: 1 Acquired: 9-OCT-19 16:13:04  
 Run: 191009D1 Analyte: Cal: 1613VG7-10-9-19 Results:  
 Sample text: ST191009D1-1 1613 CS0 19C2201

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.25	1.97e+04	0.80 y	26:32	-	0.84
2	Unk	1,2,3,7,8-PeCDD	1.25	8.06e+04	0.62 y	30:54	-	0.86
3	Unk	1,2,3,4,7,8-HxCDD	1.25	7.34e+04	1.23 y	34:16	-	1.12
4	Unk	1,2,3,6,7,8-HxCDD	1.25	7.23e+04	1.12 y	34:23	-	0.83
5	Unk	1,2,3,7,8,9-HxCDD	1.25	8.01e+04	1.19 y	34:43	-	0.95
6	Unk	1,2,3,4,6,7,8-HpCDD	1.25	6.39e+04	1.06 y	38:05	-	0.90
7	Unk	OCDD	2.50	1.14e+05	0.95 y	41:28	-	0.93
8	Unk	2,3,7,8-TCDF	0.25	3.62e+04	0.85 y	25:49	-	1.09
9	Unk	1,2,3,7,8-PeCDF	1.25	1.26e+05	1.52 y	29:46	-	0.94
10	Unk	2,3,4,7,8-PeCDF	1.25	1.31e+05	1.52 y	30:40	-	1.00
11	Unk	1,2,3,4,7,8-HxCDF	1.25	9.36e+04	1.22 y	33:22	-	1.23
12	Unk	1,2,3,6,7,8-HxCDF	1.25	1.02e+05	1.11 y	33:29	-	1.01
13	Unk	2,3,4,6,7,8-HxCDF	1.25	1.01e+05	1.30 y	34:07	-	1.06
14	Unk	1,2,3,7,8,9-HxCDF	1.25	8.74e+04	1.10 y	35:08	-	1.05
15	Unk	1,2,3,4,6,7,8-HpCDF	1.25	8.63e+04	1.01 y	36:57	-	1.13
16	Unk	1,2,3,4,7,8,9-HpCDF	1.25	8.18e+04	1.14 y	38:40	-	1.30
17	Unk	OCDF	2.50	1.32e+05	0.94 y	41:43	-	0.95
36	IS	13C-2,3,7,8-TCDD	100.00	9.40e+06	0.78 y	26:32	-	1.11
37	IS	13C-1,2,3,7,8-PeCDD	100.00	7.48e+06	0.62 y	30:55	-	0.89
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	5.24e+06	1.19 y	34:15	-	0.65
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	6.96e+06	1.32 y	34:22	-	0.86
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	6.74e+06	1.31 y	34:42	-	0.84
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	5.68e+06	1.05 y	38:05	-	0.70
42	IS	13C-OCDD	200.00	9.75e+06	0.88 y	41:28	-	0.60
43	IS	13C-2,3,7,8-TCDF	100.00	1.33e+07	0.79 y	25:49	-	1.04
44	IS	13C-1,2,3,7,8-PeCDF	100.00	1.07e+07	1.58 y	29:46	-	0.84
45	IS	13C-2,3,4,7,8-PeCDF	100.00	1.05e+07	1.58 y	30:39	-	0.81
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	6.11e+06	0.51 y	33:21	-	0.76
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	8.04e+06	0.50 y	33:29	-	1.00
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	7.61e+06	0.50 y	34:07	-	0.94
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	6.66e+06	0.48 y	35:07	-	0.82
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	6.12e+06	0.42 y	36:57	-	0.76
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	5.02e+06	0.45 y	38:41	-	0.62
52	IS	13C-OCDF	200.00	1.11e+07	0.90 y	41:43	-	0.69
53	C/Up	37Cl-2,3,7,8-TCDD	0.25	2.97e+04		26:33	-	1.40
54	RS/RT	13C-1,2,3,4-TCDD	100.00	8.45e+06	0.80 y	25:59	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	1.28e+07	0.79 y	24:39	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	8.07e+06	0.52 y	33:47	-	1.00

DB  
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Filename: 191009D1 S: 2 Acquired: 9-OCT-19 17:00:45  
 Run: 191009D1 Analyte: Cal: 1613VG7-10-9-19 Results:  
 Sample text: ST191009D1-2 1613 CS1 19C2202

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.50	3.54e+04	0.78 y	26:34	-	0.83
2	Unk	1,2,3,7,8-PeCDD	2.50	1.46e+05	0.60 y	30:56	-	0.87
3	Unk	1,2,3,4,7,8-HxCDD	2.50	1.25e+05	1.20 y	34:16	-	1.13
4	Unk	1,2,3,6,7,8-HxCDD	2.50	1.40e+05	1.22 y	34:23	-	0.88
5	Unk	1,2,3,7,8,9-HxCDD	2.50	1.33e+05	1.15 y	34:43	-	0.90
6	Unk	1,2,3,4,6,7,8-HpCDD	2.50	1.13e+05	0.97 y	38:06	-	0.97
7	Unk	OCDD	5.00	1.78e+05	0.90 y	41:28	-	0.94
8	Unk	2,3,7,8-TCDF	0.50	5.25e+04	0.74 y	25:51	-	0.90
9	Unk	1,2,3,7,8-PeCDF	2.50	2.25e+05	1.59 y	29:48	-	0.94
10	Unk	2,3,4,7,8-PeCDF	2.50	2.42e+05	1.50 y	30:40	-	0.99
11	Unk	1,2,3,4,7,8-HxCDF	2.50	1.62e+05	1.16 y	33:22	-	1.11
12	Unk	1,2,3,6,7,8-HxCDF	2.50	2.03e+05	1.20 y	33:30	-	1.07
13	Unk	2,3,4,6,7,8-HxCDF	2.50	1.79e+05	1.30 y	34:07	-	1.03
14	Unk	1,2,3,7,8,9-HxCDF	2.50	1.49e+05	1.24 y	35:08	-	1.02
15	Unk	1,2,3,4,6,7,8-HpCDF	2.50	1.51e+05	0.91 y	36:57	-	1.13
16	Unk	1,2,3,4,7,8,9-HpCDF	2.50	1.23e+05	0.94 y	38:41	-	1.24
17	Unk	OCDF	5.00	2.09e+05	0.91 y	41:43	-	0.92
36	IS	13C-2,3,7,8-TCDD	100.00	8.50e+06	0.78 y	26:34	-	1.08
37	IS	13C-1,2,3,7,8-PeCDD	100.00	6.74e+06	0.63 y	30:56	-	0.86
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	4.41e+06	1.38 y	34:16	-	0.60
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	6.35e+06	1.20 y	34:23	-	0.87
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	5.87e+06	1.26 y	34:42	-	0.80
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	4.64e+06	1.05 y	38:05	-	0.63
42	IS	13C-OCDD	200.00	7.58e+06	0.89 y	41:28	-	0.52
43	IS	13C-2,3,7,8-TCDF	100.00	1.17e+07	0.80 y	25:51	-	1.00
44	IS	13C-1,2,3,7,8-PeCDF	100.00	9.60e+06	1.59 y	29:48	-	0.82
45	IS	13C-2,3,4,7,8-PeCDF	100.00	9.80e+06	1.58 y	30:40	-	0.84
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	5.84e+06	0.52 y	33:21	-	0.80
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	7.58e+06	0.51 y	33:29	-	1.03
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	6.92e+06	0.51 y	34:07	-	0.94
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	5.84e+06	0.49 y	35:08	-	0.80
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	5.38e+06	0.43 y	36:57	-	0.73
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	3.99e+06	0.43 y	38:41	-	0.54
52	IS	13C-OCDF	200.00	9.05e+06	0.88 y	41:43	-	0.62
53	C/Up	37Cl-2,3,7,8-TCDD	0.50	4.55e+04		26:34	-	1.16
54	RS/RT	13C-1,2,3,4-TCDD	100.00	7.86e+06	0.77 y	26:01	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	1.17e+07	0.83 y	24:41	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	7.33e+06	0.52 y	33:47	-	1.00

DB  
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Filename: 191009D1 S: 3 Acquired: 9-OCT-19 17:48:27  
 Run: 191009D1 Analyte: Cal: 1613VG7-10-9-19 Results:  
 Sample text: ST191009D1-3 1613 CS2 19C2203

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	2.00	1.35e+05	0.74 y	26:33	-	0.87
2	Unk	1,2,3,7,8-PeCDD	10.00	5.33e+05	0.64 y	30:56	-	0.88
3	Unk	1,2,3,4,7,8-HxCDD	10.00	3.94e+05	1.22 y	34:16	-	1.03
4	Unk	1,2,3,6,7,8-HxCDD	10.00	5.50e+05	1.25 y	34:23	-	1.01
5	Unk	1,2,3,7,8,9-HxCDD	10.00	4.71e+05	1.36 y	34:43	-	0.93
6	Unk	1,2,3,4,6,7,8-HpCDD	10.00	3.70e+05	1.02 y	38:06	-	0.95
7	Unk	OCDD	20.00	6.41e+05	0.90 y	41:29	-	0.92
8	Unk	2,3,7,8-TCDF	2.00	1.90e+05	0.83 y	25:49	-	0.89
9	Unk	1,2,3,7,8-PeCDF	10.00	7.88e+05	1.58 y	29:47	-	0.92
10	Unk	2,3,4,7,8-PeCDF	10.00	8.71e+05	1.56 y	30:40	-	1.00
11	Unk	1,2,3,4,7,8-HxCDF	10.00	6.02e+05	1.14 y	33:22	-	1.15
12	Unk	1,2,3,6,7,8-HxCDF	10.00	7.20e+05	1.27 y	33:30	-	1.06
13	Unk	2,3,4,6,7,8-HxCDF	10.00	6.66e+05	1.26 y	34:08	-	1.12
14	Unk	1,2,3,7,8,9-HxCDF	10.00	5.16e+05	1.16 y	35:08	-	1.02
15	Unk	1,2,3,4,6,7,8-HpCDF	10.00	5.02e+05	1.05 y	36:57	-	1.06
16	Unk	1,2,3,4,7,8,9-HpCDF	10.00	4.31e+05	1.08 y	38:41	-	1.25
17	Unk	OCDF	20.00	7.38e+05	0.91 y	41:44	-	0.91
36	IS	13C-2,3,7,8-TCDD	100.00	7.73e+06	0.78 y	26:33	-	1.06
37	IS	13C-1,2,3,7,8-PeCDD	100.00	6.03e+06	0.62 y	30:55	-	0.83
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	3.81e+06	1.24 y	34:15	-	0.58
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	5.44e+06	1.28 y	34:22	-	0.82
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	5.03e+06	1.21 y	34:42	-	0.76
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	3.89e+06	1.09 y	38:05	-	0.59
42	IS	13C-OCDD	200.00	6.97e+06	0.90 y	41:28	-	0.53
43	IS	13C-2,3,7,8-TCDF	100.00	1.08e+07	0.82 y	25:49	-	1.03
44	IS	13C-1,2,3,7,8-PeCDF	100.00	8.55e+06	1.59 y	29:47	-	0.82
45	IS	13C-2,3,4,7,8-PeCDF	100.00	8.70e+06	1.59 y	30:40	-	0.83
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	5.22e+06	0.49 y	33:21	-	0.79
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	6.80e+06	0.51 y	33:29	-	1.03
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	5.93e+06	0.52 y	34:07	-	0.90
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	5.05e+06	0.51 y	35:08	-	0.77
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	4.73e+06	0.44 y	36:57	-	0.72
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	3.46e+06	0.45 y	38:41	-	0.52
52	IS	13C-OCDF	200.00	8.15e+06	0.92 y	41:44	-	0.62
53	C/Up	37Cl-2,3,7,8-TCDD	2.00	1.69e+05		26:33	-	1.16
54	RS/RT	13C-1,2,3,4-TCDD	100.00	7.29e+06	0.77 y	25:59	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	1.04e+07	0.82 y	24:39	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	6.60e+06	0.52 y	33:47	-	1.00

DB  
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Filename: 191009D1 S: 4      Acquired: 9-OCT-19 18:36:09  
 Run: 191009D1    Analyte:            Cal: 1613VG7-10-9-19            Results:  
 Sample text: ST191009D1-4 1613 CS3 19C2204

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	10.00	8.37e+05	0.80 y	26:35	-	0.99
2	Unk	1,2,3,7,8-PeCDD	50.00	2.94e+06	0.61 y	30:56	-	0.88
3	Unk	1,2,3,4,7,8-HxCDD	50.00	2.38e+06	1.21 y	34:16	-	1.08
4	Unk	1,2,3,6,7,8-HxCDD	50.00	2.90e+06	1.19 y	34:23	-	0.92
5	Unk	1,2,3,7,8,9-HxCDD	50.00	2.74e+06	1.24 y	34:42	-	0.95
6	Unk	1,2,3,4,6,7,8-HpCDD	50.00	2.15e+06	1.03 y	38:05	-	0.96
7	Unk	OCDD	100.00	3.73e+06	0.91 y	41:28	-	0.94
8	Unk	2,3,7,8-TCDF	10.00	1.05e+06	0.80 y	25:51	-	0.89
9	Unk	1,2,3,7,8-PeCDF	50.00	4.65e+06	1.59 y	29:47	-	0.95
10	Unk	2,3,4,7,8-PeCDF	50.00	4.70e+06	1.68 y	30:40	-	1.00
11	Unk	1,2,3,4,7,8-HxCDF	50.00	3.52e+06	1.24 y	33:21	-	1.14
12	Unk	1,2,3,6,7,8-HxCDF	50.00	3.92e+06	1.25 y	33:29	-	1.05
13	Unk	2,3,4,6,7,8-HxCDF	50.00	3.74e+06	1.22 y	34:07	-	1.11
14	Unk	1,2,3,7,8,9-HxCDF	50.00	3.00e+06	1.19 y	35:07	-	1.06
15	Unk	1,2,3,4,6,7,8-HpCDF	50.00	2.97e+06	1.04 y	36:57	-	1.10
16	Unk	1,2,3,4,7,8,9-HpCDF	50.00	2.49e+06	1.07 y	38:41	-	1.25
17	Unk	OCDF	100.00	4.33e+06	0.91 y	41:43	-	0.92
36	IS	13C-2,3,7,8-TCDD	100.00	8.46e+06	0.74 y	26:33	-	1.10
37	IS	13C-1,2,3,7,8-PeCDD	100.00	6.66e+06	0.62 y	30:55	-	0.86
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	4.42e+06	1.25 y	34:15	-	0.61
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	6.30e+06	1.28 y	34:22	-	0.87
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	5.76e+06	1.27 y	34:41	-	0.80
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	4.47e+06	1.05 y	38:05	-	0.62
42	IS	13C-OCDD	200.00	7.90e+06	0.94 y	41:27	-	0.55
43	IS	13C-2,3,7,8-TCDF	100.00	1.18e+07	0.79 y	25:50	-	1.05
44	IS	13C-1,2,3,7,8-PeCDF	100.00	9.79e+06	1.62 y	29:47	-	0.87
45	IS	13C-2,3,4,7,8-PeCDF	100.00	9.43e+06	1.61 y	30:39	-	0.84
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	6.19e+06	0.50 y	33:21	-	0.86
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	7.47e+06	0.51 y	33:29	-	1.03
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	6.75e+06	0.49 y	34:06	-	0.93
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	5.64e+06	0.49 y	35:07	-	0.78
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	5.40e+06	0.43 y	36:55	-	0.75
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	3.99e+06	0.44 y	38:40	-	0.55
52	IS	13C-OCDF	200.00	9.37e+06	0.89 y	41:43	-	0.65
53	C/Up	37Cl-2,3,7,8-TCDD	10.00	8.56e+05		26:35	-	1.11
54	RS/RT	13C-1,2,3,4-TCDD	100.00	7.70e+06	0.75 y	26:00	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	1.13e+07	0.82 y	24:41	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	7.23e+06	0.51 y	33:47	-	1.00

DB

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Filename: 191009D1 S: 5 Acquired: 9-OCT-19 19:23:46  
 Run: 191009D1 Analyte: Cal: 1613VG7-10-9-19 Results:  
 Sample text: ST191009D1-5 1613 CS4 19C2205

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	40.00	3.53e+06	0.81 y	26:35	-	0.92
2	Unk	1,2,3,7,8-PeCDD	200.00	1.48e+07	0.63 y	30:55	-	0.96
3	Unk	1,2,3,4,7,8-HxCDD	200.00	1.19e+07	1.19 y	34:15	-	1.09
4	Unk	1,2,3,6,7,8-HxCDD	200.00	1.34e+07	1.20 y	34:22	-	0.98
5	Unk	1,2,3,7,8,9-HxCDD	200.00	1.30e+07	1.18 y	34:41	-	1.00
6	Unk	1,2,3,4,6,7,8-HpCDD	200.00	1.10e+07	1.03 y	38:04	-	1.03
7	Unk	OCDD	400.00	2.03e+07	0.91 y	41:26	-	1.01
8	Unk	2,3,7,8-TCDF	40.00	5.17e+06	0.77 y	25:52	-	0.95
9	Unk	1,2,3,7,8-PeCDF	200.00	2.24e+07	1.58 y	29:47	-	1.00
10	Unk	2,3,4,7,8-PeCDF	200.00	2.29e+07	1.55 y	30:40	-	1.03
11	Unk	1,2,3,4,7,8-HxCDF	200.00	1.69e+07	1.21 y	33:21	-	1.20
12	Unk	1,2,3,6,7,8-HxCDF	200.00	1.85e+07	1.21 y	33:29	-	1.12
13	Unk	2,3,4,6,7,8-HxCDF	200.00	1.83e+07	1.21 y	34:06	-	1.16
14	Unk	1,2,3,7,8,9-HxCDF	200.00	1.53e+07	1.22 y	35:06	-	1.08
15	Unk	1,2,3,4,6,7,8-HpCDF	200.00	1.46e+07	1.04 y	36:56	-	1.17
16	Unk	1,2,3,4,7,8,9-HpCDF	200.00	1.30e+07	1.05 y	38:39	-	1.31
17	Unk	OCDF	400.00	2.42e+07	0.91 y	41:41	-	1.00
36	IS	13C-2,3,7,8-TCDD	100.00	9.63e+06	0.75 y	26:34	-	1.12
37	IS	13C-1,2,3,7,8-PeCDD	100.00	7.72e+06	0.63 y	30:54	-	0.89
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	5.48e+06	1.31 y	34:14	-	0.65
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	6.83e+06	1.22 y	34:21	-	0.80
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	6.48e+06	1.26 y	34:40	-	0.76
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	5.36e+06	1.08 y	38:03	-	0.63
42	IS	13C-OCDD	200.00	1.01e+07	0.91 y	41:25	-	0.59
43	IS	13C-2,3,7,8-TCDF	100.00	1.36e+07	0.80 y	25:51	-	1.04
44	IS	13C-1,2,3,7,8-PeCDF	100.00	1.12e+07	1.57 y	29:46	-	0.86
45	IS	13C-2,3,4,7,8-PeCDF	100.00	1.11e+07	1.52 y	30:39	-	0.85
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	7.05e+06	0.50 y	33:20	-	0.83
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	8.28e+06	0.49 y	33:28	-	0.98
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	7.90e+06	0.51 y	34:05	-	0.93
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	7.08e+06	0.51 y	35:06	-	0.83
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	6.23e+06	0.46 y	36:55	-	0.73
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	4.95e+06	0.44 y	38:38	-	0.58
52	IS	13C-OCDF	200.00	1.22e+07	0.90 y	41:40	-	0.72
53	C/Up	37Cl-2,3,7,8-TCDD	40.00	3.96e+06		26:35	-	1.15
54	RS/RT	13C-1,2,3,4-TCDD	100.00	8.64e+06	0.78 y	26:00	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	1.30e+07	0.83 y	24:41	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	8.48e+06	0.51 y	33:46	-	1.00

D/B  
10/10/19

Filename: 191009D1 S: 6 Acquired: 9-OCT-19 20:11:17  
 Run: 191009D1 Analyte: Cal: 1613VG7-10-9-19 Results:  
 Sample text: ST191009D1-6 1613 CS5 19C2206

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	300.00	2.80e+07	0.81 y	26:35	-	0.98
2	Unk	1,2,3,7,8-PeCDD	1500.00	1.19e+08	0.62 y	30:55	-	0.96
3	Unk	1,2,3,4,7,8-HxCDD	1500.00	1.04e+08	1.22 y	34:15	-	1.15
4	Unk	1,2,3,6,7,8-HxCDD	1500.00	1.07e+08	1.21 y	34:22	-	1.00
5	Unk	1,2,3,7,8,9-HxCDD	1500.00	1.06e+08	1.23 y	34:41	-	1.03
6	Unk	1,2,3,4,6,7,8-HpCDD	1500.00	9.32e+07	1.05 y	38:03	-	1.06
7	Unk	OCDD	3000.00	1.64e+08	0.92 y	41:25	-	1.01
8	Unk	2,3,7,8-TCDF	300.00	3.95e+07	0.79 y	25:52	-	0.99
9	Unk	1,2,3,7,8-PeCDF	1500.00	1.79e+08	1.58 y	29:47	-	1.01
10	Unk	2,3,4,7,8-PeCDF	1500.00	1.86e+08	1.57 y	30:39	-	1.07
11	Unk	1,2,3,4,7,8-HxCDF	1500.00	1.40e+08	1.20 y	33:21	-	1.24
12	Unk	1,2,3,6,7,8-HxCDF	1500.00	1.48e+08	1.21 y	33:29	-	1.11
13	Unk	2,3,4,6,7,8-HxCDF	1500.00	1.51e+08	1.22 y	34:06	-	1.20
14	Unk	1,2,3,7,8,9-HxCDF	1500.00	1.28e+08	1.25 y	35:06	-	1.13
15	Unk	1,2,3,4,6,7,8-HpCDF	1500.00	1.18e+08	1.03 y	36:55	-	1.18
16	Unk	1,2,3,4,7,8,9-HpCDF	1500.00	1.04e+08	1.05 y	38:38	-	1.34
17	Unk	OCDF	3000.00	1.96e+08	0.91 y	41:40	-	0.98
36	IS	13C-2,3,7,8-TCDD	100.00	9.53e+06	0.73 y	26:33	-	1.11
37	IS	13C-1,2,3,7,8-PeCDD	100.00	8.28e+06	0.64 y	30:54	-	0.96
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	6.01e+06	1.21 y	34:14	-	0.77
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	7.08e+06	1.32 y	34:21	-	0.90
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	6.90e+06	1.26 y	34:39	-	0.88
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	5.86e+06	1.08 y	38:03	-	0.75
42	IS	13C-OCDD	200.00	1.08e+07	0.92 y	41:25	-	0.69
43	IS	13C-2,3,7,8-TCDF	100.00	1.33e+07	0.80 y	25:51	-	1.04
44	IS	13C-1,2,3,7,8-PeCDF	100.00	1.18e+07	1.59 y	29:46	-	0.92
45	IS	13C-2,3,4,7,8-PeCDF	100.00	1.16e+07	1.60 y	30:38	-	0.91
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	7.52e+06	0.51 y	33:20	-	0.96
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	8.92e+06	0.50 y	33:28	-	1.14
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	8.38e+06	0.51 y	34:05	-	1.07
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	7.57e+06	0.52 y	35:05	-	0.96
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	6.70e+06	0.43 y	36:54	-	0.85
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	5.19e+06	0.43 y	38:37	-	0.66
52	IS	13C-OCDF	200.00	1.33e+07	0.89 y	41:39	-	0.85
53	C/Up	37Cl-2,3,7,8-TCDD	199.98	2.09e+07		26:35	-	1.21
54	RS/RT	13C-1,2,3,4-TCDD	100.00	8.62e+06	0.76 y	26:01	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	1.27e+07	0.84 y	24:41	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	7.85e+06	0.49 y	33:45	-	1.00

DB

10/10/19

Run: 191009D1 Analyte: Cal: 1613VG7-10 9-19 Inst. ID. VG-7

Data filename: 191009D1

Samp# 1	Samp# 2	Samp# 3	Samp# 4	Samp# 5	Samp# 6
0.25	0.50	2.0	10	40	300

Name	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6
Total Tetra-Dioxins	0.9053	7.55 %	0.84	0.83	0.87	0.99	0.92	0.98
TCDD EMPC	0.9053	7.55 %	0.84	0.83	0.87	0.99	0.92	0.98
Total Penta-Dioxins	0.9027	4.95 %	0.86	0.87	0.88	0.88	0.96	0.96
PeCDD EMPC	0.9027	4.95 %	0.86	0.87	0.88	0.88	0.96	0.96
Total Hexa-Dioxins	0.9918	4.02 %	0.95	0.96	0.99	0.97	1.02	1.06
HxCDD EMPC	0.9918	4.02 %	0.95	0.96	0.99	0.97	1.02	1.06
Total Hepta-Dioxins	0.9794	5.84 %	0.90	0.97	0.95	0.96	1.03	1.06
HpCDD EMPC	0.9794	5.84 %	0.90	0.97	0.95	0.96	1.03	1.06
Total Tetra-Furans	0.9501	8.27 %	1.09	0.90	0.89	0.89	0.95	0.99
TCDF EMPC	0.9501	8.27 %	1.09	0.90	0.89	0.89	0.95	0.99
1st Func. Penta-Furans	0.9875	3.40 %	0.97	0.96	0.96	0.97	1.02	1.04
1st Func. PeCDF EMPC	0.9875	3.40 %	0.97	0.96	0.96	0.97	1.02	1.04
Total Penta-Furans	0.9875	3.40 %	0.97	0.96	0.96	0.97	1.02	1.04
PeCDF EMPC	0.9875	3.40 %	0.97	0.96	0.96	0.97	1.02	1.04
Total Hexa-Furans	1.1033	3.70 %	1.08	1.06	1.09	1.09	1.14	1.17
HxCDF EMPC	1.1033	3.70 %	1.08	1.06	1.09	1.09	1.14	1.17
Total Hepta-Furans	1.1937	3.56 %	1.21	1.17	1.14	1.16	1.23	1.25
HpCDF EMPC	1.1937	3.56 %	1.21	1.17	1.14	1.16	1.23	1.25

DB  
10/10/19

Run: 191009D1

Analyte:

Cal: 1613VG7-10-9-19

Inst. ID: VG-7

Data filename: 191009D1

		Samp# 1	Samp# 2	Samp# 3	Samp# 4	Samp# 5	Samp# 6
		0.25	0.50	2.0	10	40	300
RRT Limits							
Name	Lower Upper	RRT#1	RRT#2	RRT#3	RRT#4	RRT#5	RRT#6
2,3,7,8-TCDD	0.999 -1.002	1.000	1.000	1.000	1.001	1.001	1.001
1,2,3,7,8-PeCDD	0.999 -1.002	0.999	1.000	1.001	1.001	1.001	1.001
1,2,3,4,7,8-HxCDD	0.999 -1.001	1.000	1.000	1.001	1.000	1.000	1.000
1,2,3,6,7,8-HxCDD	0.998 -1.004	1.000	1.000	1.000	1.001	1.001	1.000
1,2,3,7,8,9-HxCDD	0.998 -1.004	1.001	1.000	1.000	1.000	1.001	1.001
1,2,3,4,6,7,8-HpCDD	0.999 -1.001	1.000	1.000	1.000	1.000	1.000	1.000
OCDD	0.999 -1.001	1.000	1.000	1.000	1.000	1.000	1.000
2,3,7,8-TCDF	0.999 -1.003	1.000	1.000	1.000	1.001	1.001	1.001
1,2,3,7,8-PeCDF	0.999 -1.002	1.000	1.000	1.000	1.000	1.000	1.001
2,3,4,7,8-PeCDF	0.999 -1.002	1.000	1.000	1.000	1.001	1.001	1.001
1,2,3,4,7,8-HxCDF	0.999 -1.001	1.000	1.000	1.000	1.000	1.000	1.000
1,2,3,6,7,8-HxCDF	0.997 -1.005	1.000	1.000	1.001	1.000	1.000	1.000
2,3,4,6,7,8-HxCDF	0.999 -1.001	1.000	1.000	1.000	1.001	1.001	1.000
1,2,3,7,8,9-HxCDF	0.999 -1.001	1.000	1.000	1.000	1.000	1.000	1.000
1,2,3,4,6,7,8-HpCDF	0.999 -1.001	1.000	1.000	1.000	1.001	1.000	1.000
1,2,3,4,7,8,9-HpCDF	0.999 -1.001	1.000	1.000	1.000	1.000	1.000	1.000
OCDF	0.999 -1.001	1.000	1.000	1.000	1.000	1.000	1.000
13C-2,3,7,8-TCDD	0.976 -1.043	1.022	1.022	1.022	1.021	1.021	1.021
13C-1,2,3,7,8-PeCDD	1.000 -1.567	1.190	1.189	1.190	1.189	1.188	1.188
13C-1,2,3,4,7,8-HxCDD	1.002 -1.026	1.014	1.014	1.014	1.014	1.014	1.014
13C-1,2,3,6,7,8-HxCDD	1.007 -1.029	1.017	1.018	1.018	1.017	1.017	1.018
13C-1,2,3,7,8,9-HxCDD	1.014 -1.038	1.027	1.027	1.027	1.027	1.027	1.027
13C-1,2,3,4,6,7,8-HpCDD	1.117 -1.141	1.127	1.127	1.128	1.127	1.127	1.127
13C-OCDD	1.085 -1.365	1.227	1.227	1.228	1.227	1.227	1.227
13C-2,3,7,8-TCDF	0.923 -1.103	0.994	0.994	0.994	0.994	0.994	0.994
13C-1,2,3,7,8-PeCDF	1.000 -1.425	1.146	1.146	1.146	1.145	1.145	1.144
13C-2,3,4,7,8-PeCDF	1.011 -1.526	1.180	1.179	1.180	1.179	1.178	1.178
13C-1,2,3,4,7,8-HxCDF	0.975 -1.001	0.987	0.987	0.987	0.987	0.987	0.987
13C-1,2,3,6,7,8-HxCDF	0.979 -1.005	0.991	0.991	0.991	0.991	0.991	0.991
13C-2,3,4,6,7,8-HxCDF	1.001 -1.020	1.010	1.010	1.010	1.009	1.009	1.010
13C-1,2,3,7,8,9-HxCDF	1.002 -1.072	1.040	1.040	1.040	1.039	1.039	1.039
13C-1,2,3,4,6,7,8-HpCDF	1.069 -1.111	1.093	1.093	1.094	1.093	1.093	1.093
13C-1,2,3,4,7,8,9-HpCDF	1.098 -1.192	1.145	1.145	1.145	1.145	1.144	1.144
13C-OCDF	1.091 -1.371	1.235	1.234	1.235	1.235	1.234	1.234
37Cl-2,3,7,8-TCDD	0.989 -1.052	1.022	1.021	1.022	1.022	1.022	1.022
13C-1,2,3,4-TCDD	0.000 -0.000	*	*	*	*	*	*
13C-1,2,3,4-TCDF	0.000 -0.000	*	*	*	*	*	*
13C-1,2,3,4,6,9-HxCDF	0.000 -0.000	*	*	*	*	*	*

D)B  
10/10/19



FORM 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-7 Initial Calibration Date: 10-9-19

RT Window Data Filename: 191009D1 S#4 Analysis Date: 9-OCT-19 Time: 18:36:09

ZB-5MS IS Data Filename: 191009D1 S#4 Analysis Date: 9-OCT-19 Time: 18:36:09

DB\_225 IS Data Filename: Analysis Date: Time:

ZB-5MS RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	23:24	1,3,6,8-TCDF (F)	21:25
1,2,8,9-TCDD (L)	27:24	1,2,8,9-TCDF (L)	27:33
1,2,4,7,9-PeCDD (F)	28:55	1,3,4,6,8-PeCDF (F)	27:28
1,2,3,8,9-PeCDD (L)	31:17	1,2,3,8,9-PeCDF (L)	31:32
1,2,4,6,7,9-HxCDD (F)	32:41	1,2,3,4,6,8-HxCDF (F)	32:08
1,2,3,7,8,9-HxCDD (L)	34:42	1,2,3,7,8,9-HxCDF (L)	35:07
1,2,3,4,6,7,9-HpCDD (F)	37:16	1,2,3,4,6,7,8-HpCDF (F)	36:57
1,2,3,4,6,7,8-HpCDD (L)	38:05	1,2,3,4,7,8,9-HpCDF (L)	38:41

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT  
BETWEEN  
COMPARED PEAKS (1)

<25%

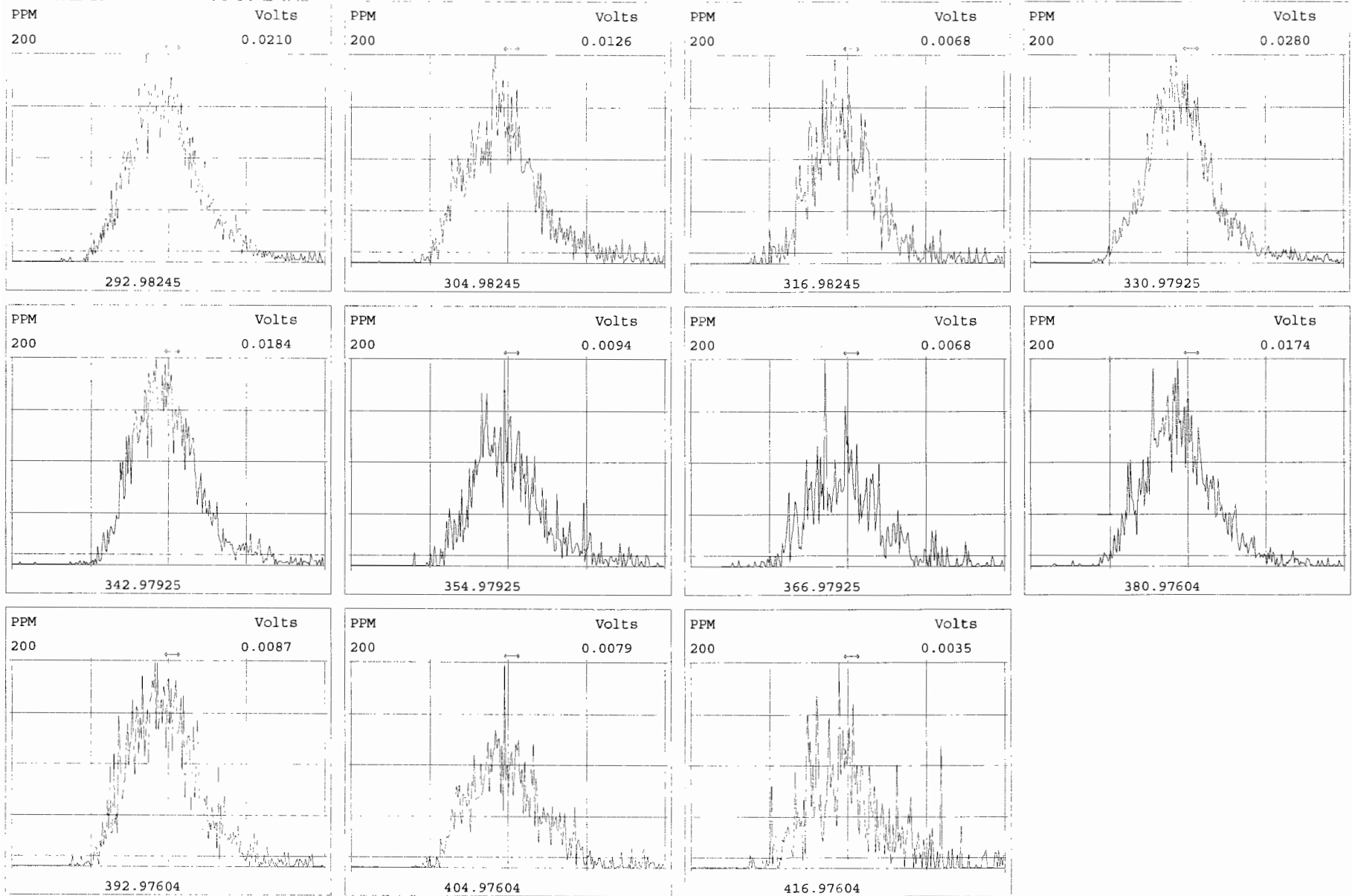
(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: DB

Date: 10/10/19

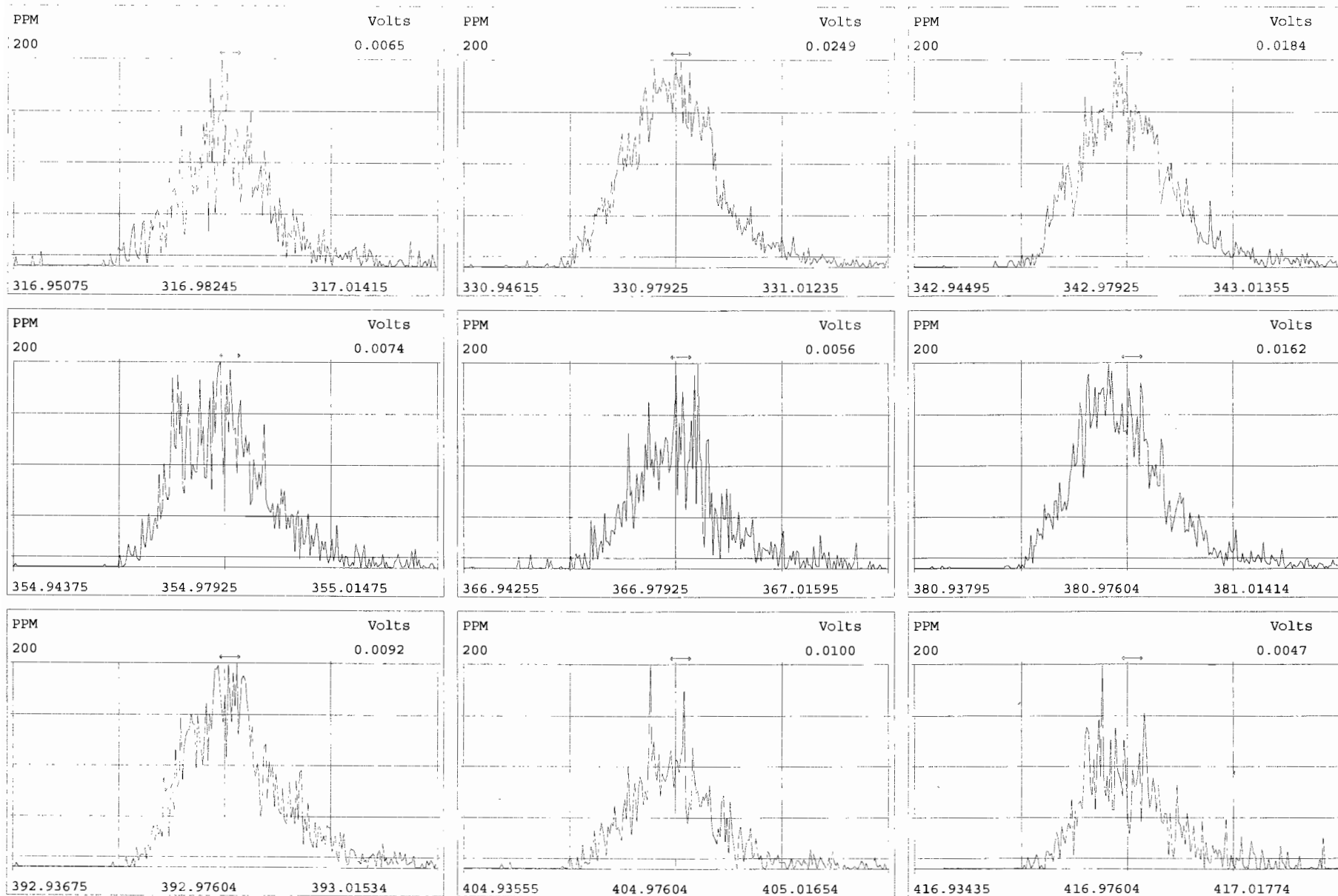
Peak Locate Examination: 9-OCT-2019:16:10 File:191009D1

Experiment:OCDD\_DB5 Function:1 Reference:PFK



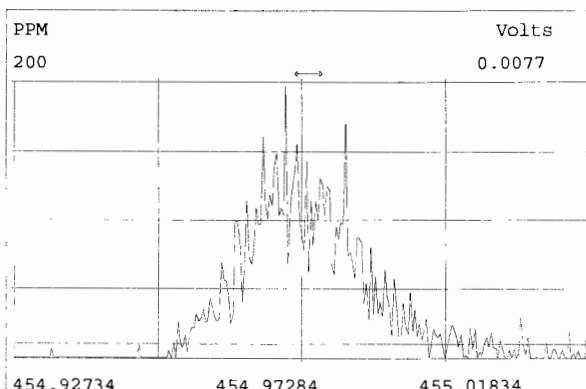
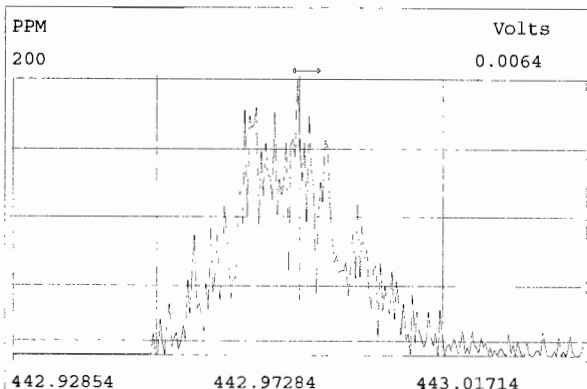
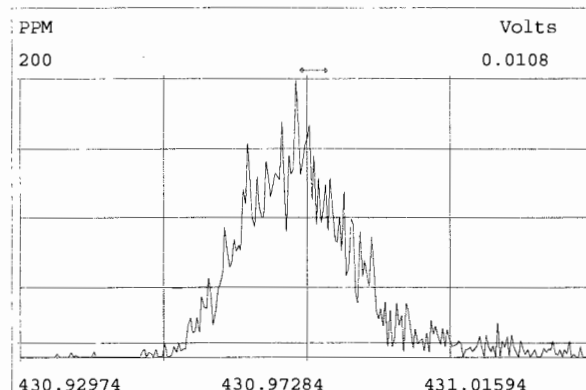
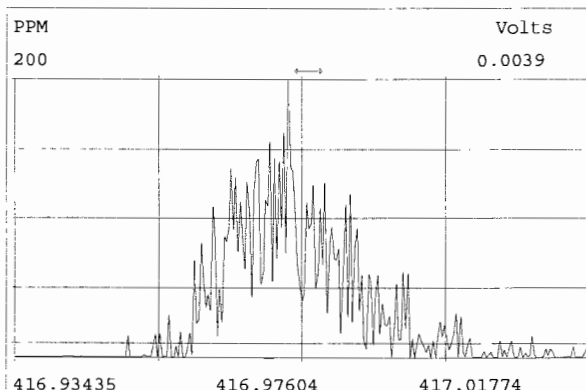
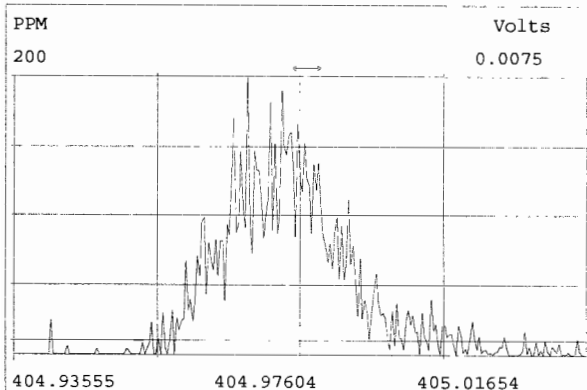
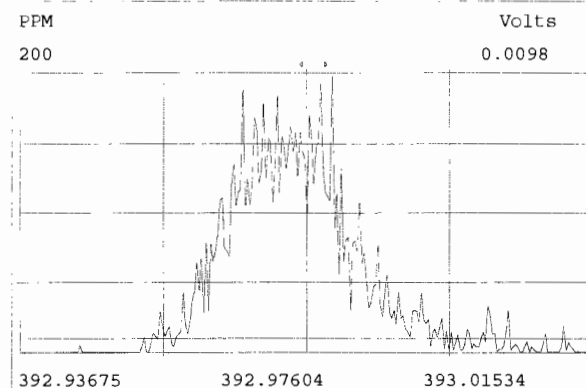
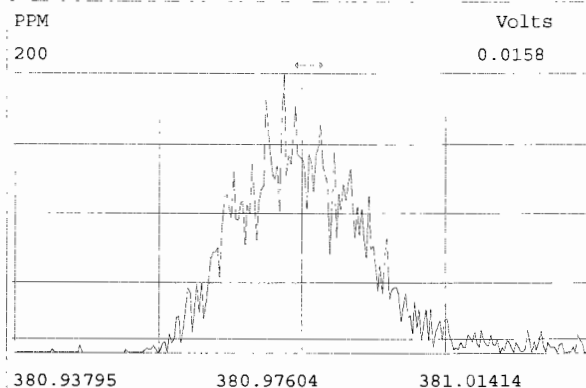
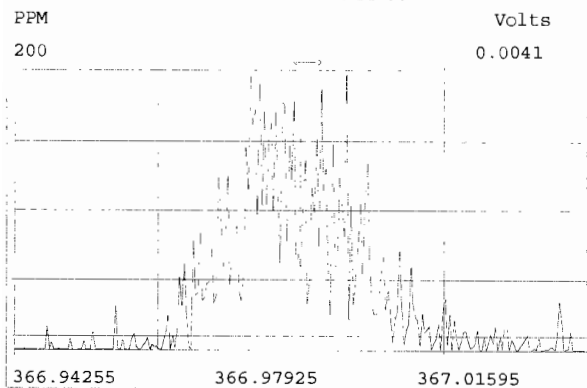
Peak Locate Examination: 9-OCT-2019:16:10 File:191009D1

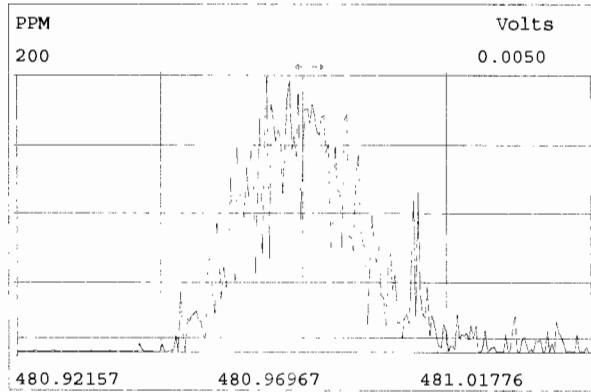
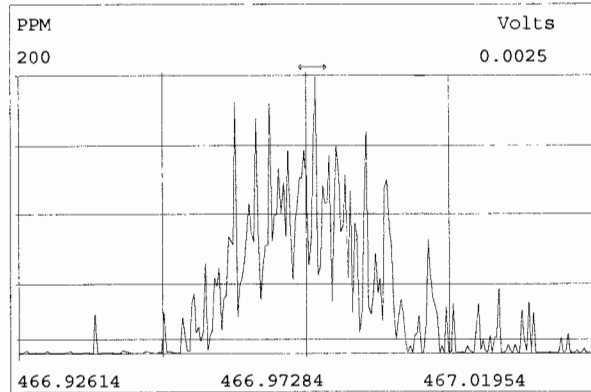
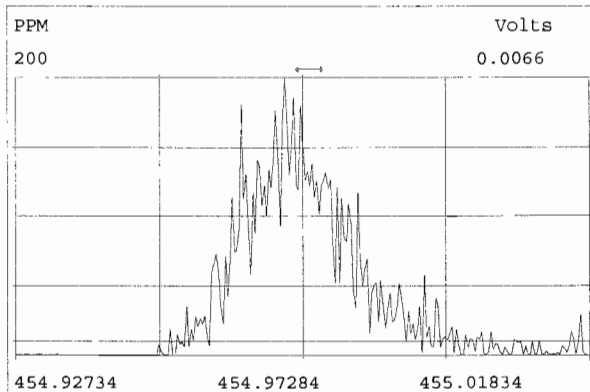
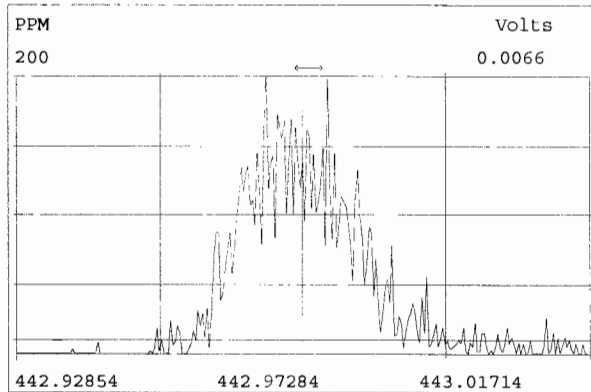
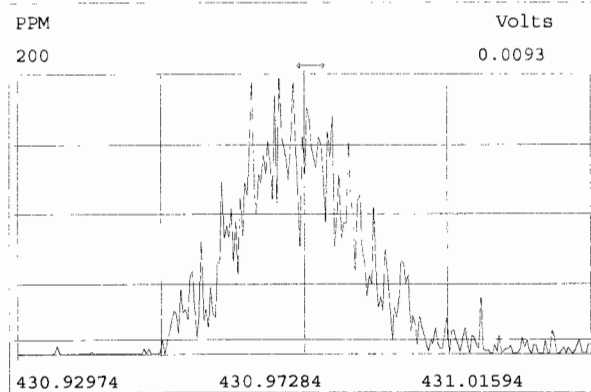
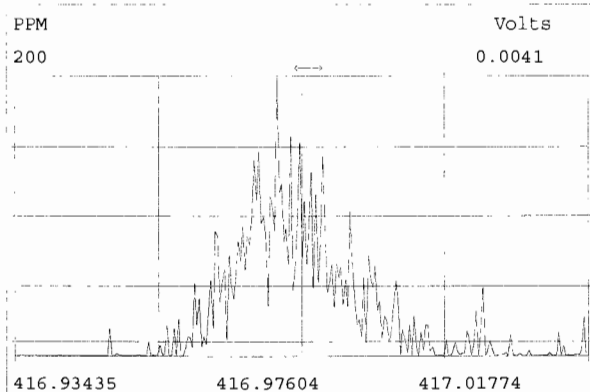
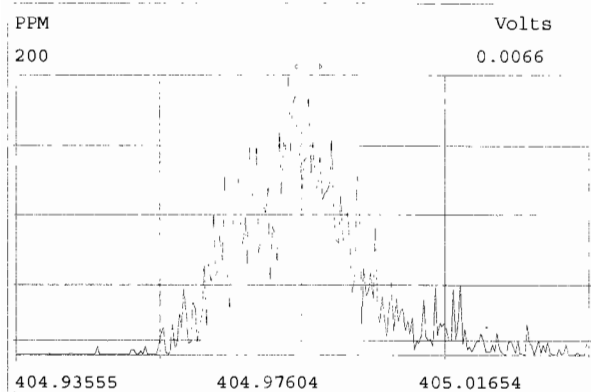
Experiment:OCDD\_DB5 Function:2 Reference:PFK

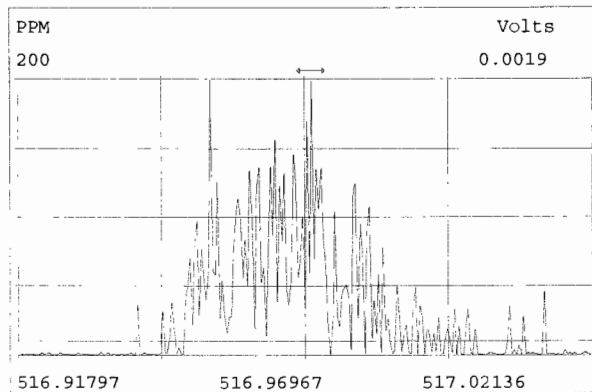
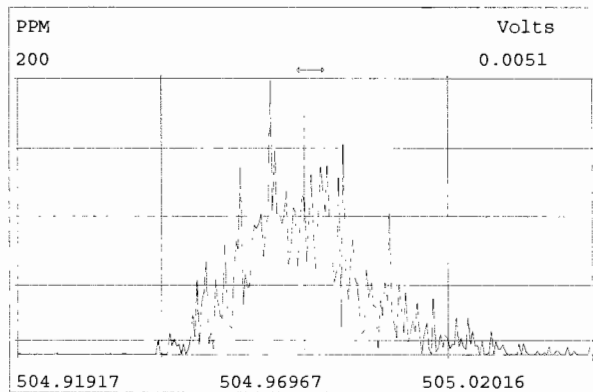
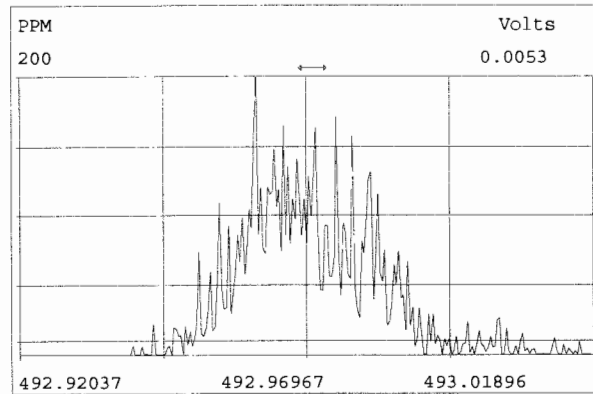
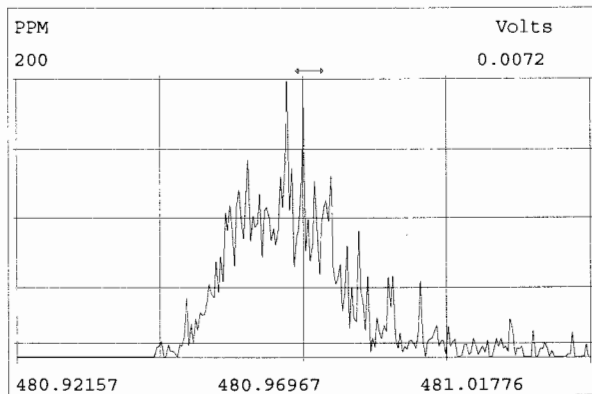
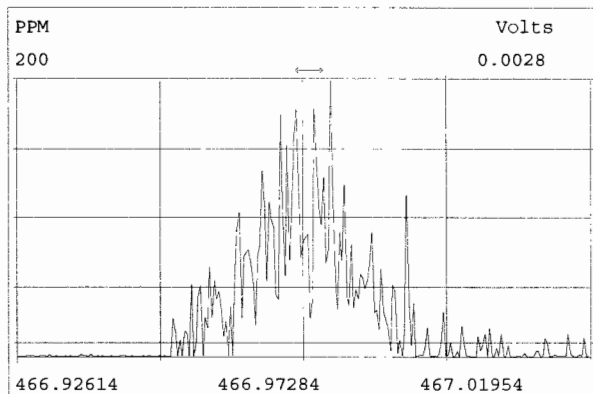
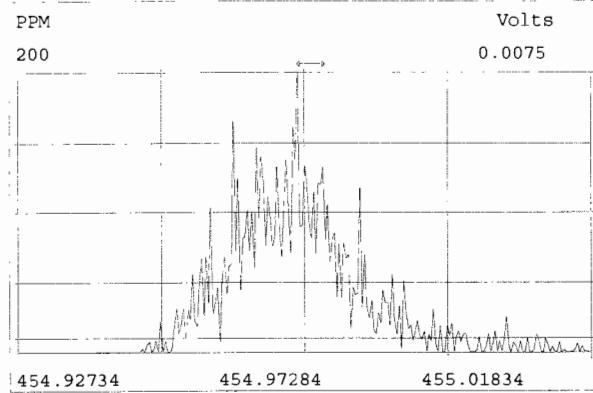
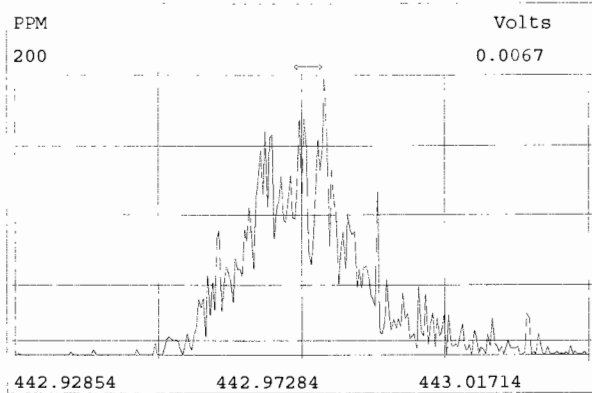
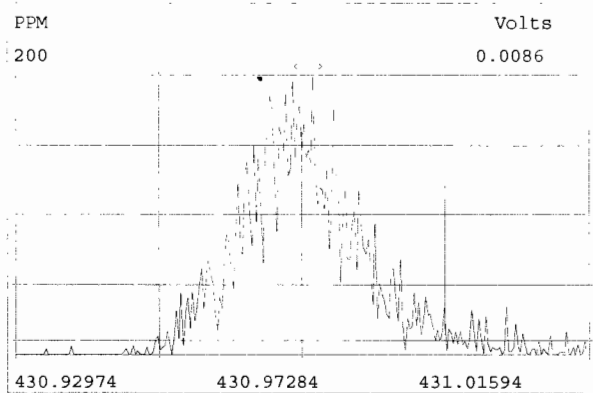


Peak Locate Examination: 9-OCT-2019:16:11 File:191009D1

Experiment:OCDD\_DB5 Function:3 Reference:PFK



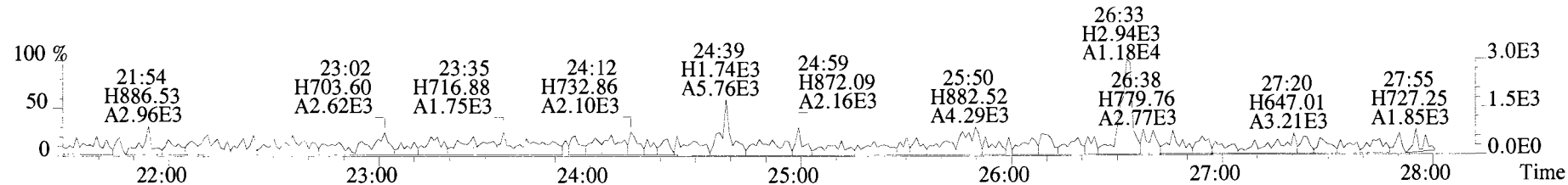




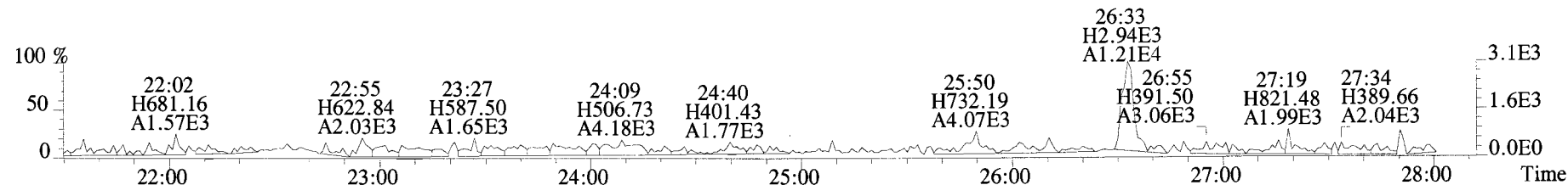
Vista Analytical Laboratory - Injection Log Run file: 191009D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
191009D1	1	ST191009D1-1	DB	9-OCT-19	16:13:04	ST191009D1-4	NA
191009D1	2	ST191009D1-2	DB	9-OCT-19	17:00:45	ST191009D1-4	NA
191009D1	3	ST191009D1-3	DB	9-OCT-19	17:48:27	ST191009D1-4	NA
191009D1	4	ST191009D1-4	DB	9-OCT-19	18:36:09	ST191009D1-4	NA
191009D1	5	ST191009D1-5	DB	9-OCT-19	19:23:46	ST191009D1-4	NA
191009D1	6	ST191009D1-6	DB	9-OCT-19	20:11:17	ST191009D1-4	NA
191009D1	7	SOLVENT BLANK	DB	9-OCT-19	20:58:57	ST191009D1-4	NA
191009D1	8	SS191009D1-1	DB	9-OCT-19	21:46:34	ST191009D1-4	NA
191009D1	9	B9J0001-BS1	DB	9-OCT-19	22:34:09	ST191009D1-4	NA
191009D1	10	SOLVENT BLANK	DB	9-OCT-19	23:21:45	ST191009D1-4	NA
191009D1	11	B9J0001-BLK1	DB	10-OCT-19	00:09:30	ST191009D1-4	NA
191009D1	12	QC191007D1-1	DB	10-OCT-19	00:57:00	ST191009D1-4	NA
191009D1	13	1903285-08	DB	10-OCT-19	01:44:36	ST191009D1-4	NA
191009D1	14	1903285-09	DB	10-OCT-19	02:32:11	ST191009D1-4	NA
191009D1	15	1903285-10	DB	10-OCT-19	03:19:47	ST191009D1-4	NA
191009D1	16	1903103-02@5X	DB	10-OCT-19	04:07:23	ST191009D1-4	NA
191009D1	17	1903103-01@5X	DB	10-OCT-19	04:54:54	ST191009D1-4	NA
191009D1	18	B9I0240-DUP1@5X	DB	10-OCT-19	05:42:38	ST191009D1-4	NA

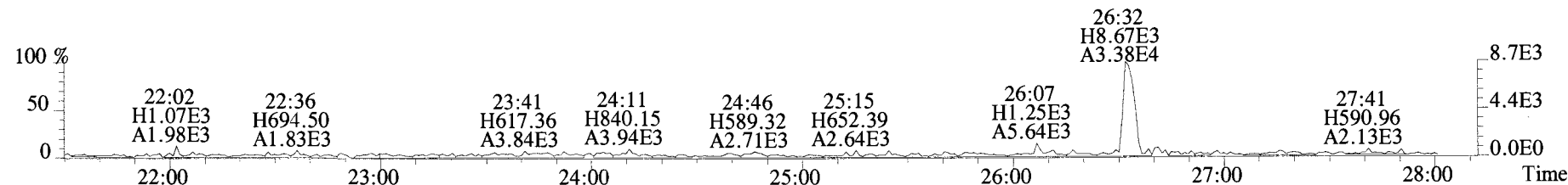
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



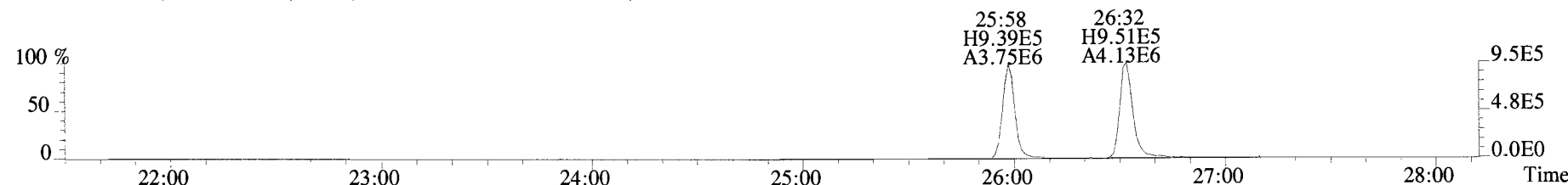
321.8936 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



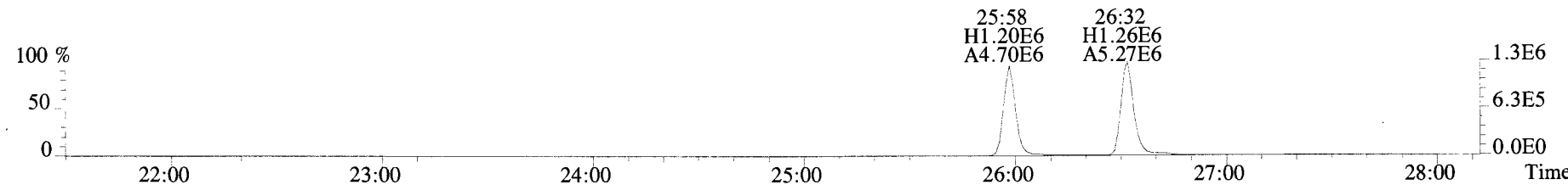
327.8847 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

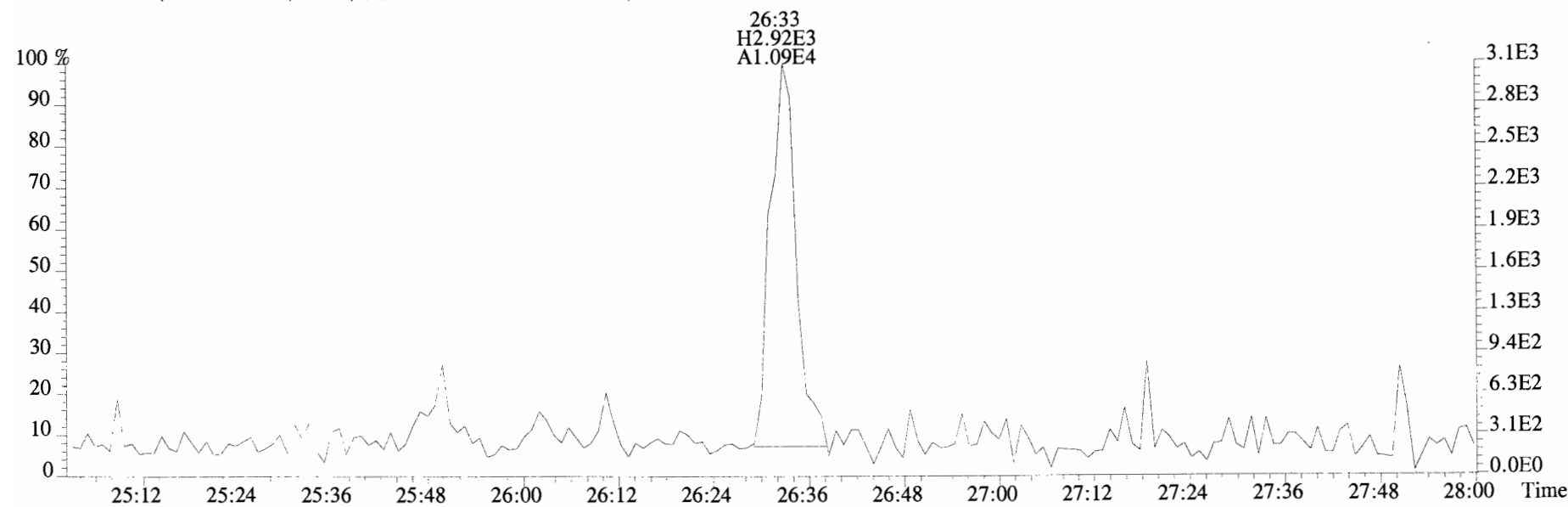
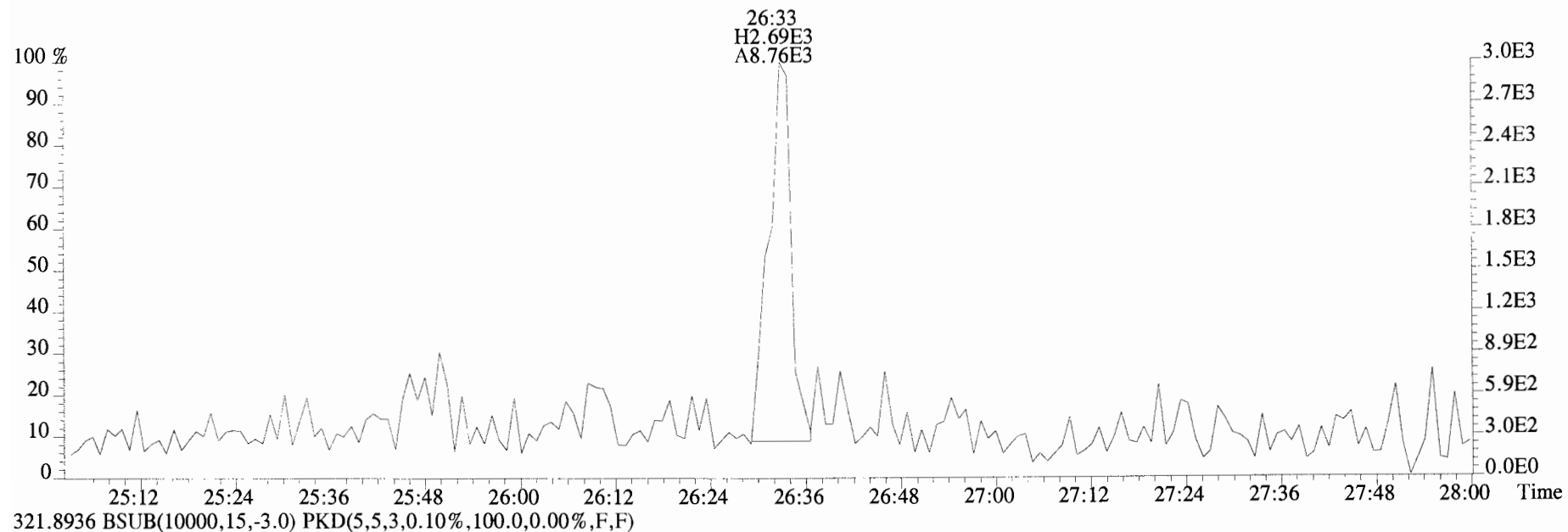


333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

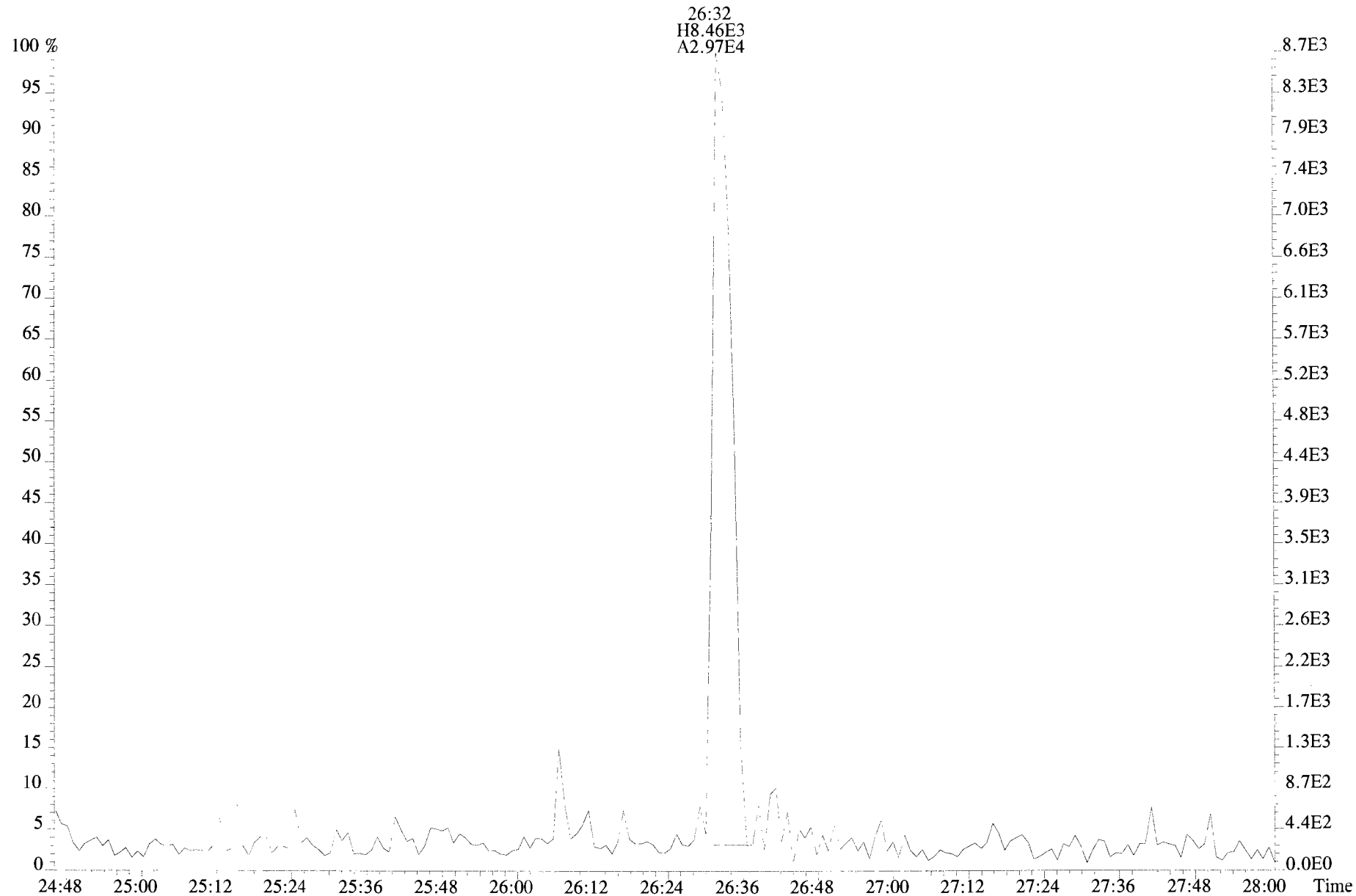




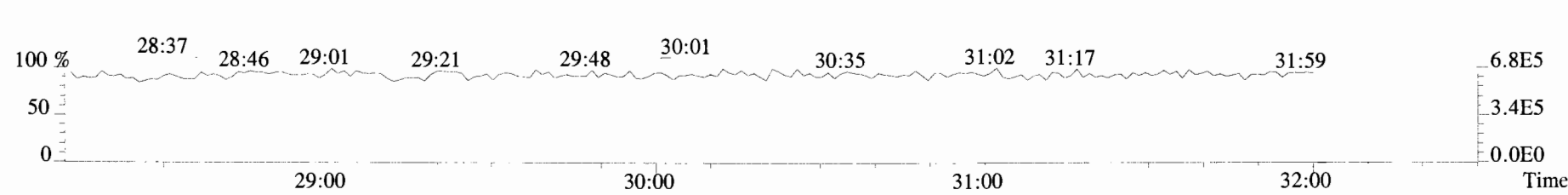
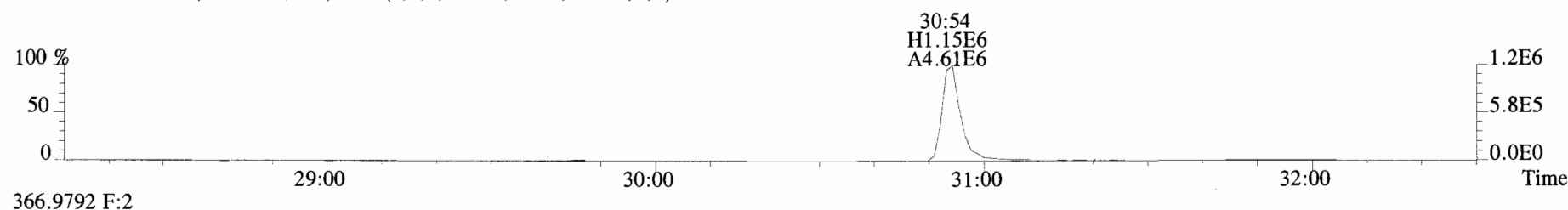
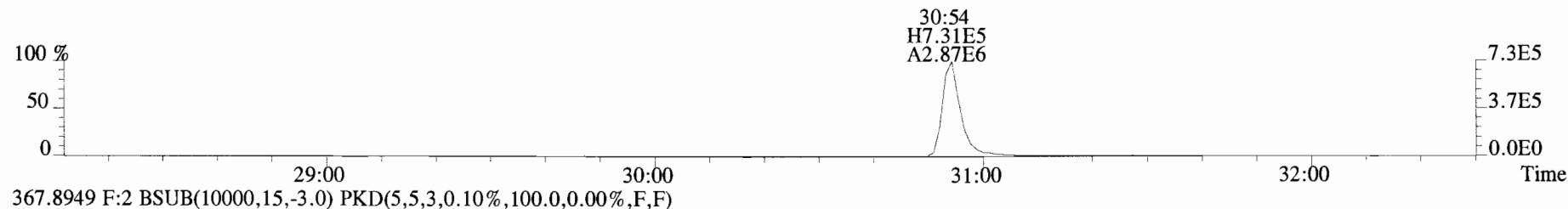
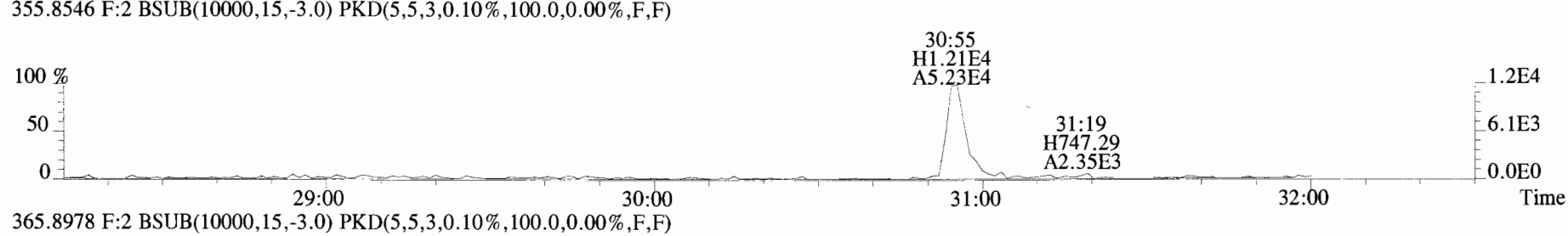
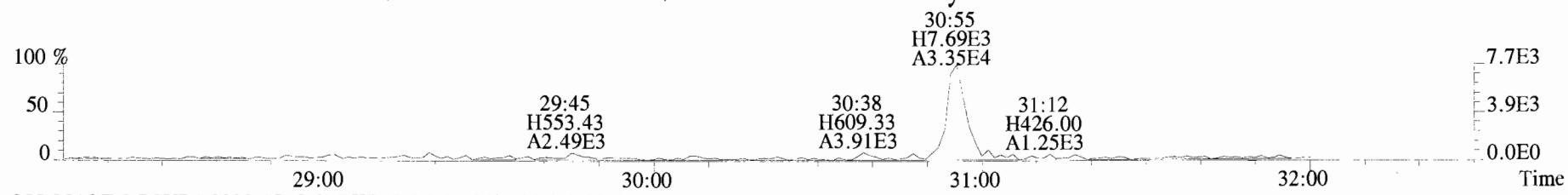
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



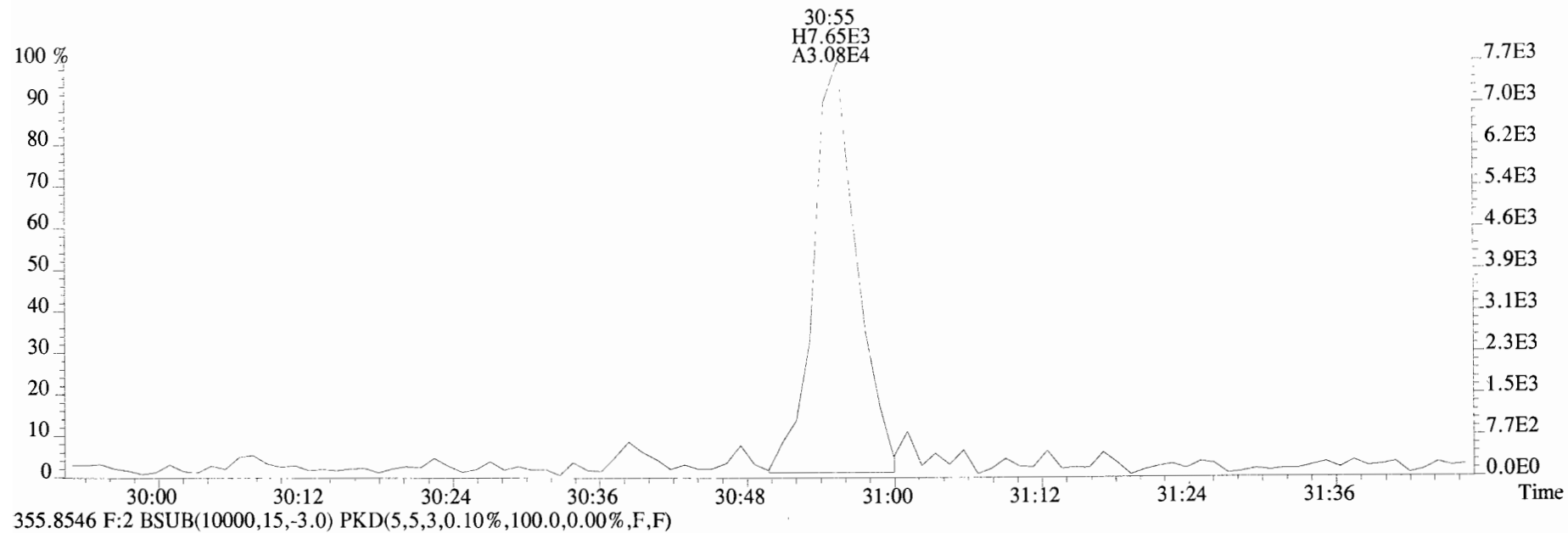
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
327.8847 BSUB(10000,15,-3.0)



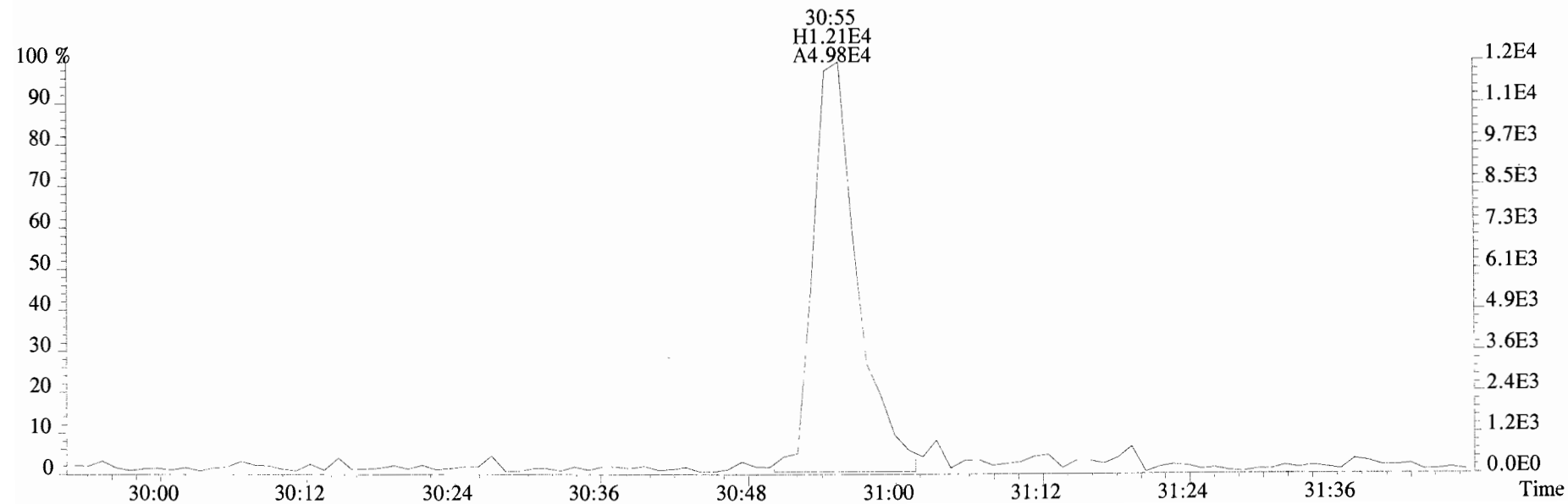
File:191009D1 #1-210 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



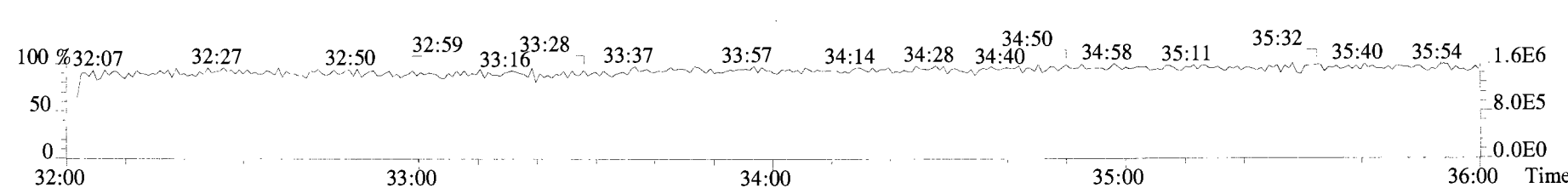
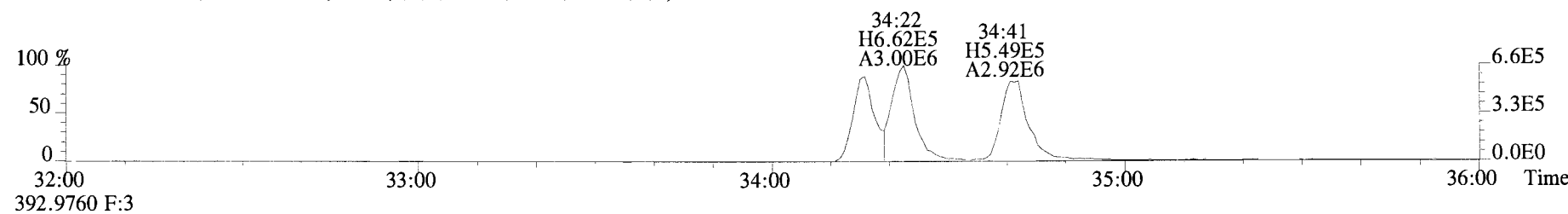
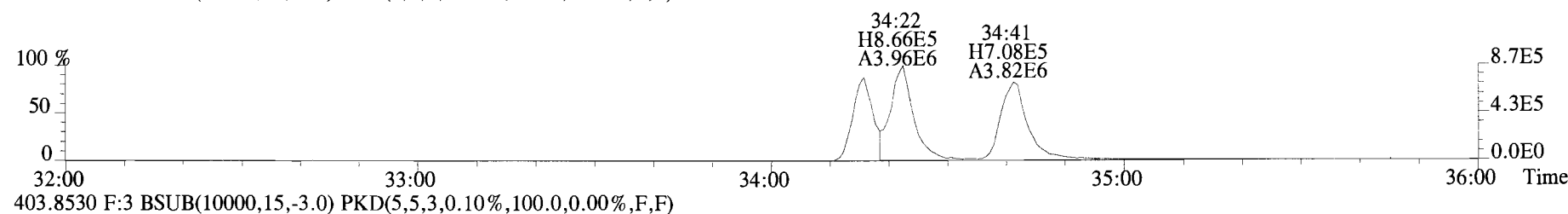
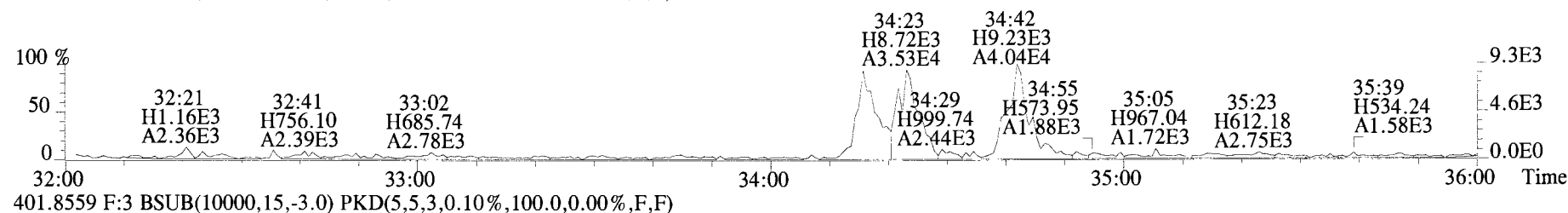
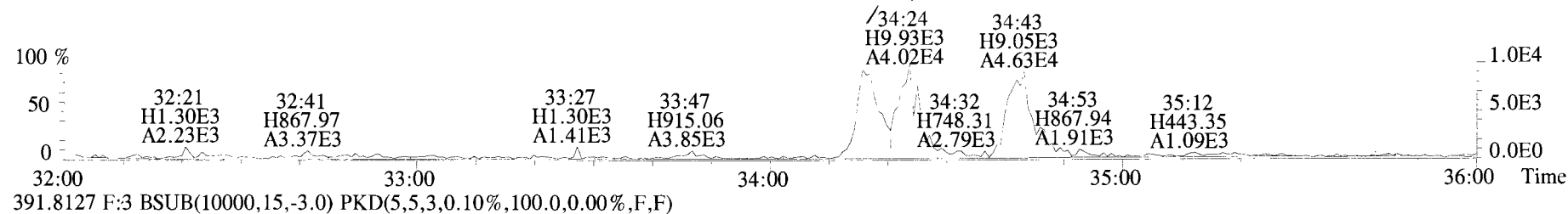
File:191009D1 #1-210 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



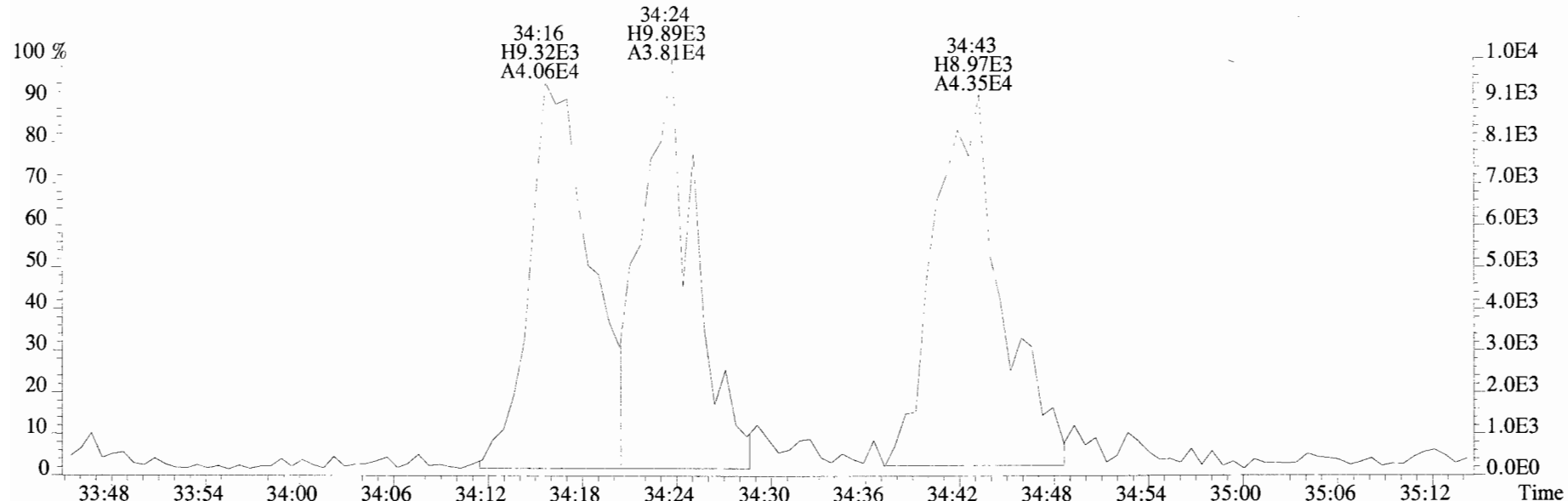
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



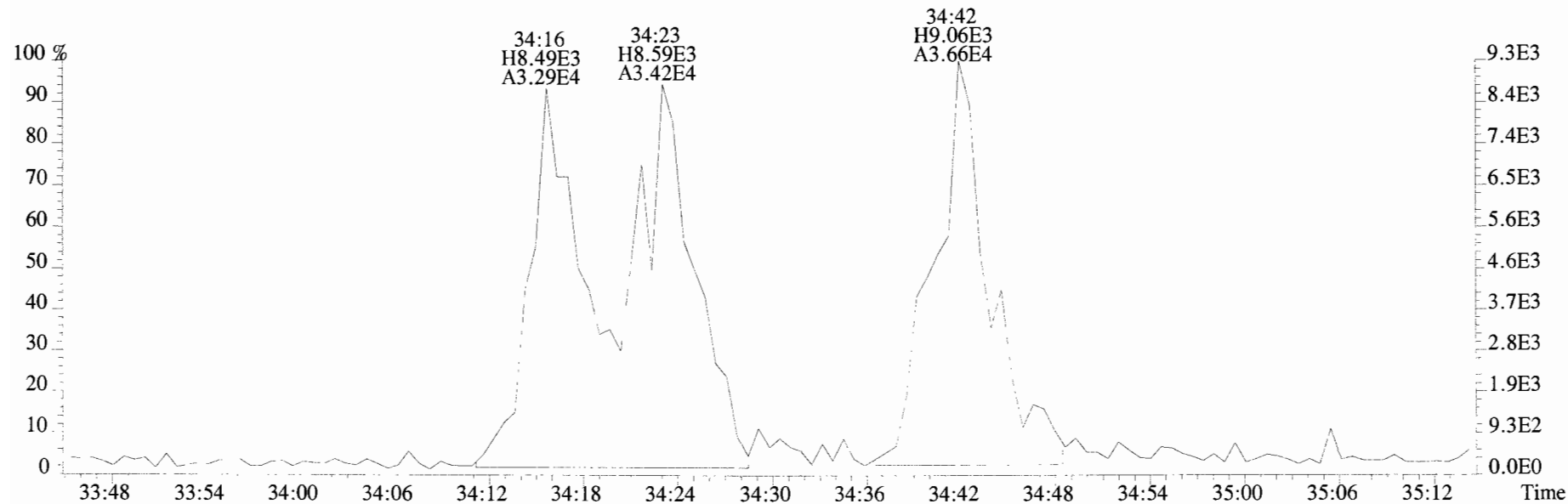
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
 389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



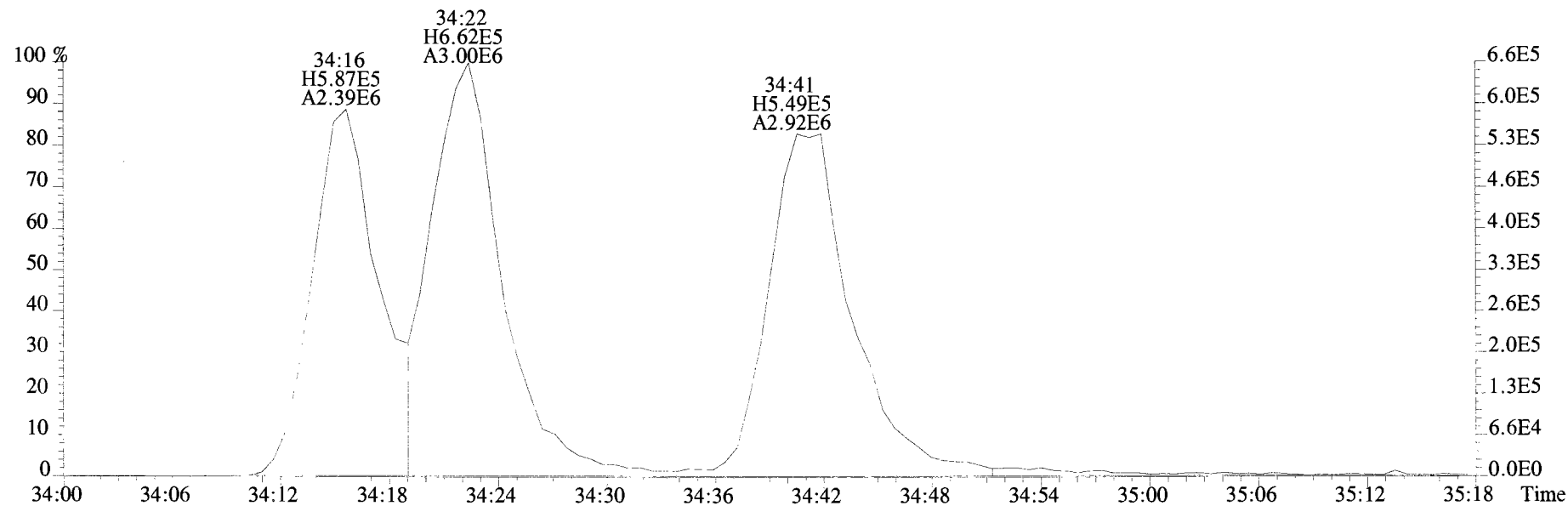
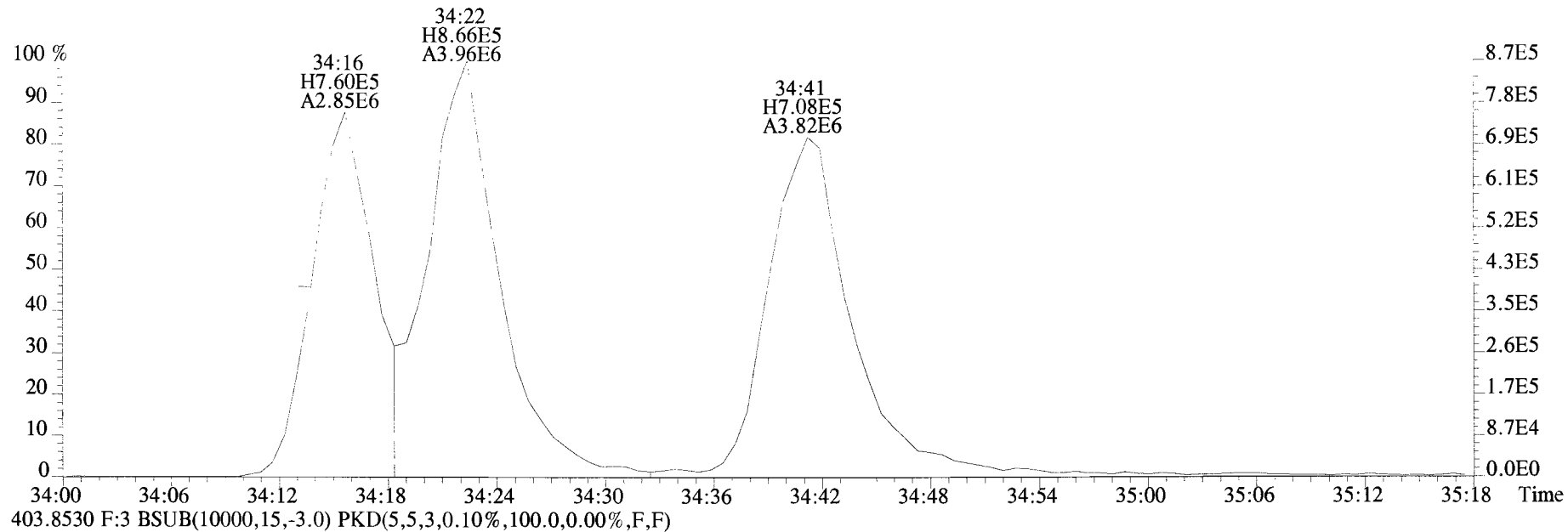
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



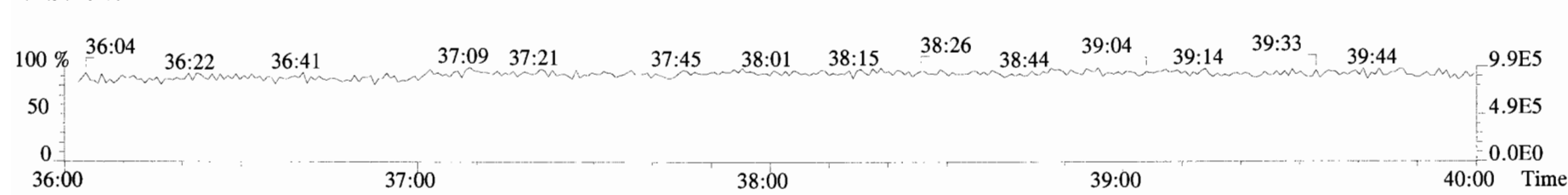
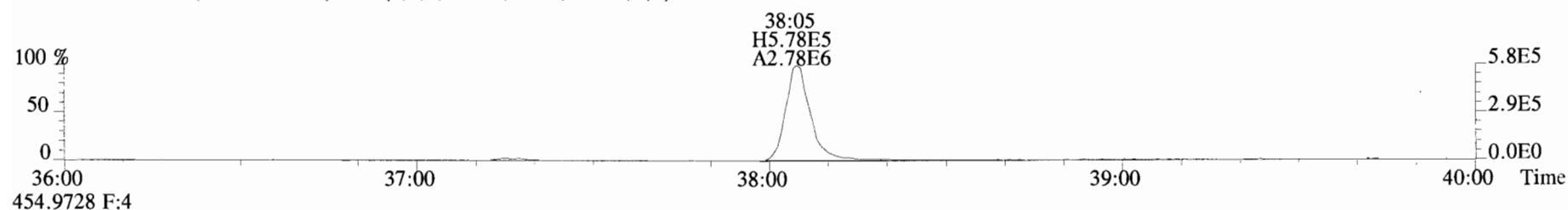
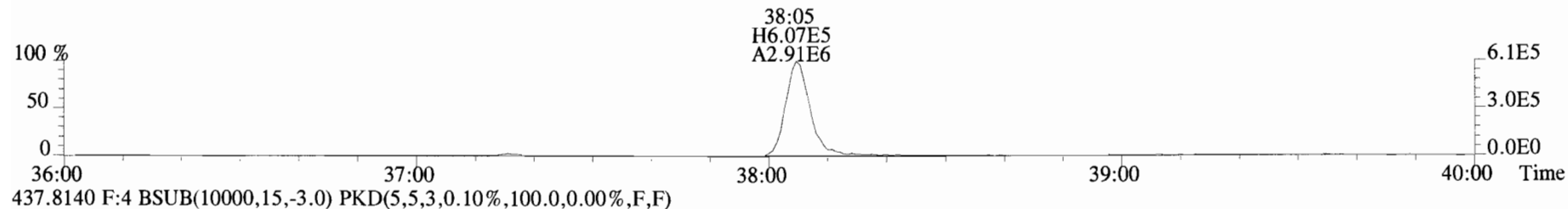
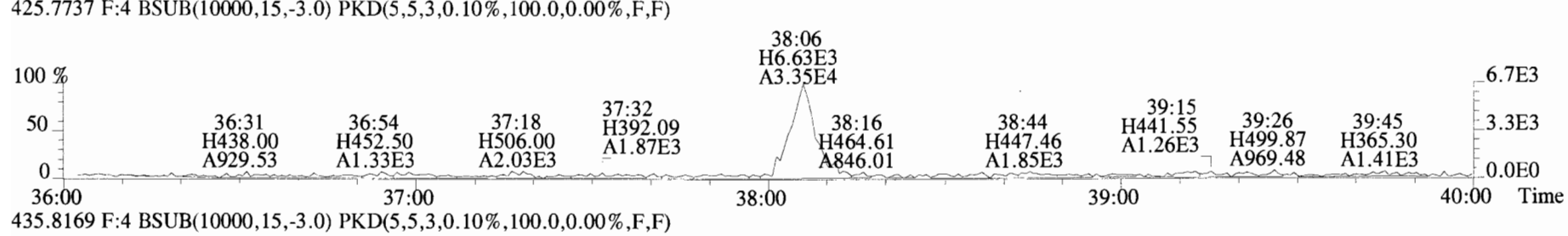
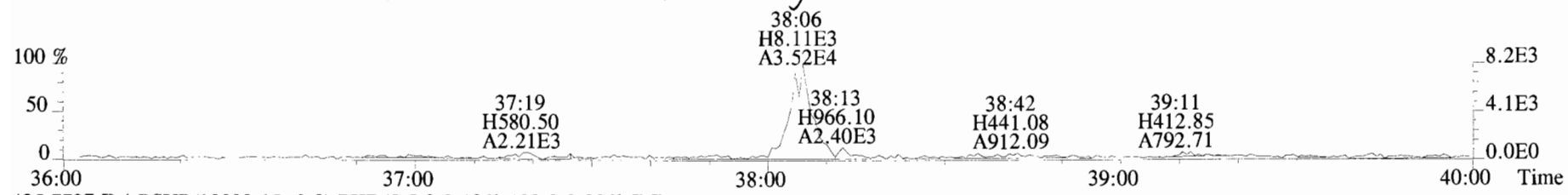
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

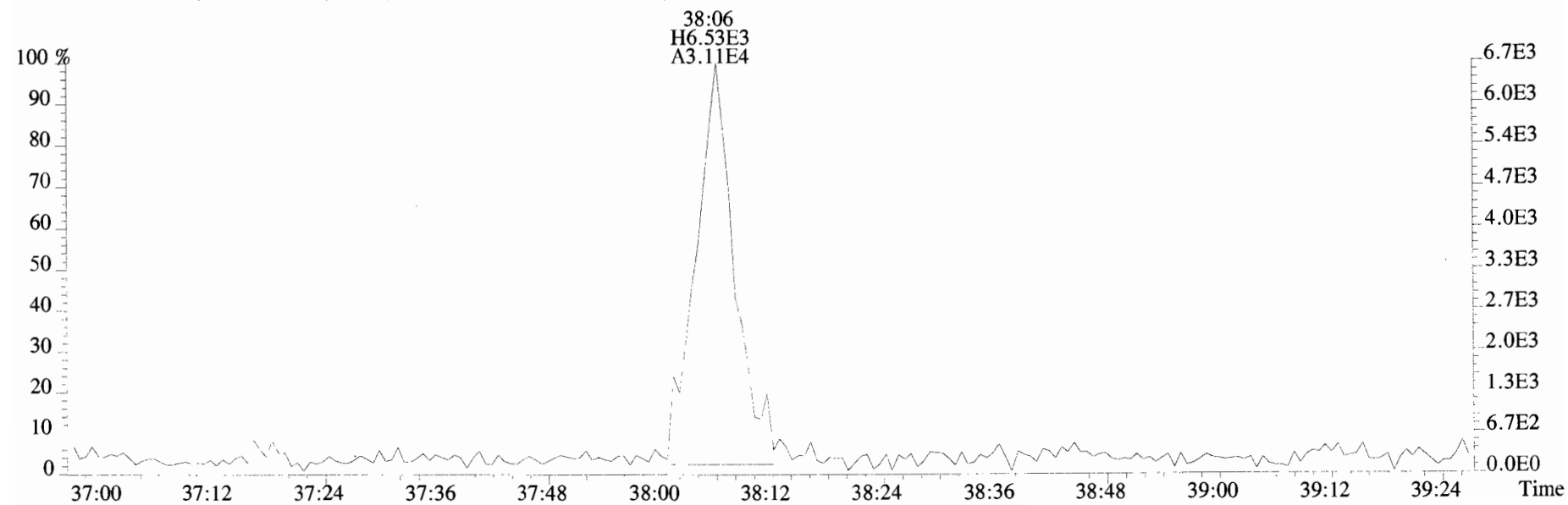
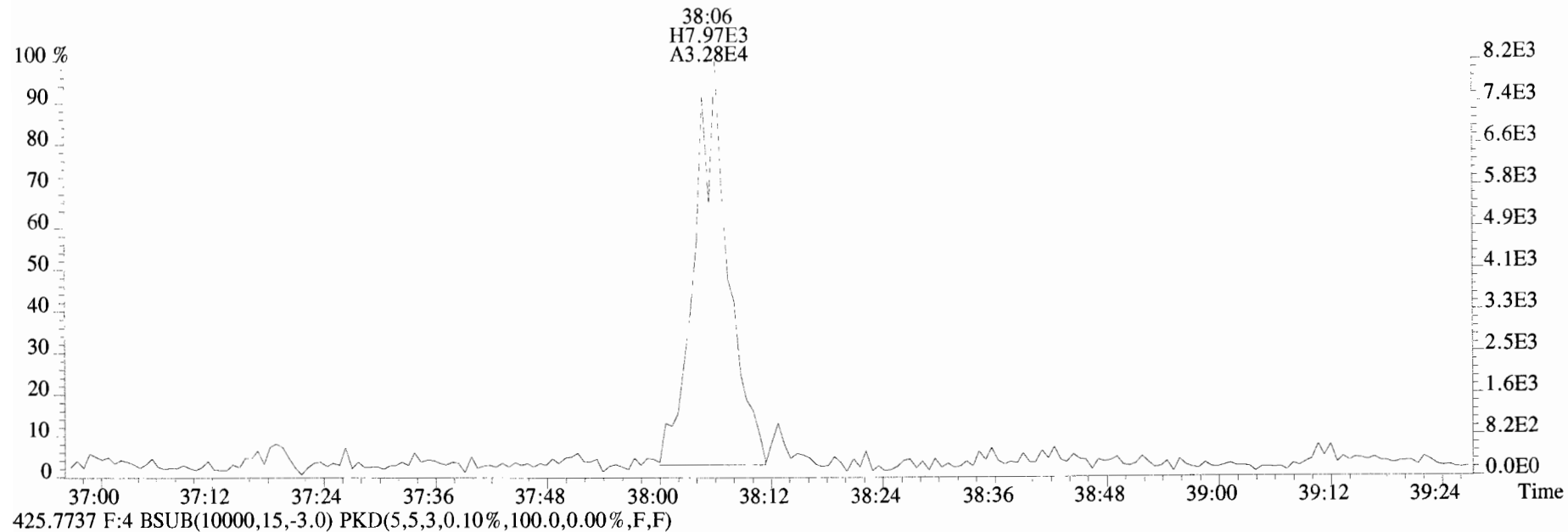


File:191009D1 #1-355 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
 423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

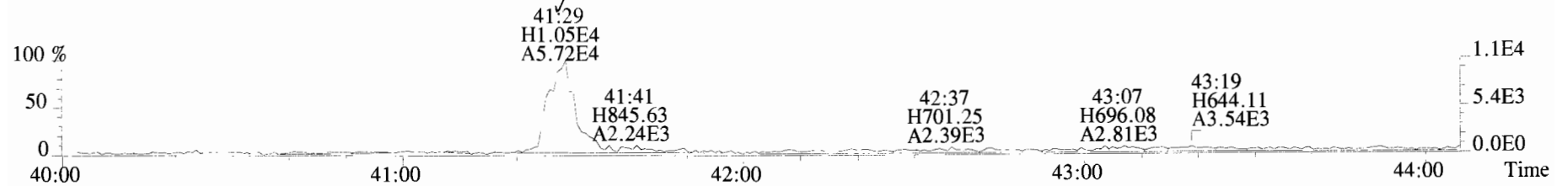




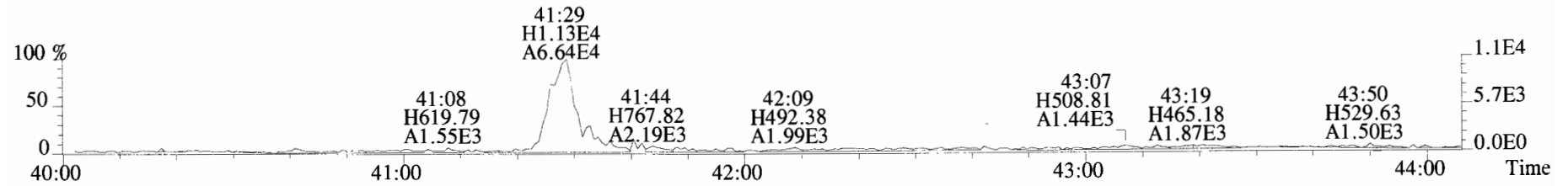
File:191009D1 #1-355 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



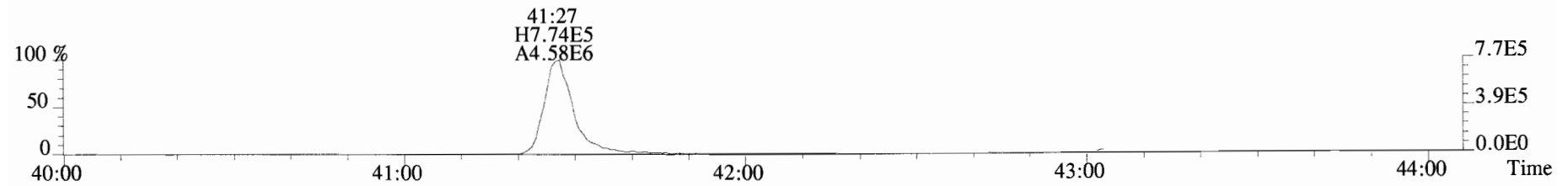
File:191009D1 #1-432 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



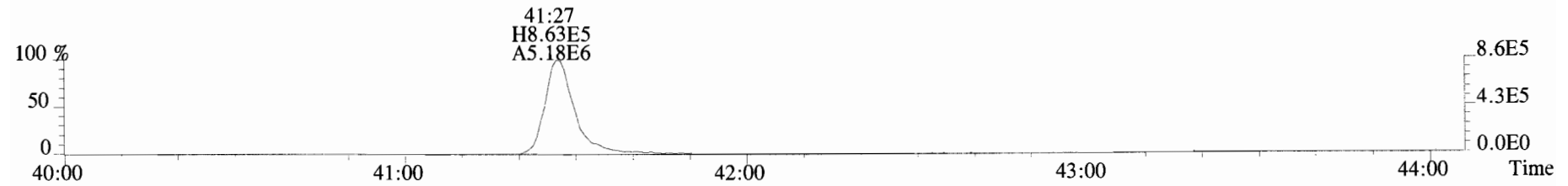
459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



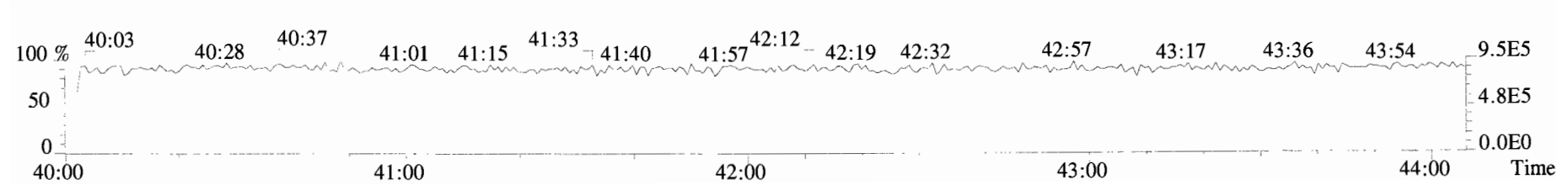
469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



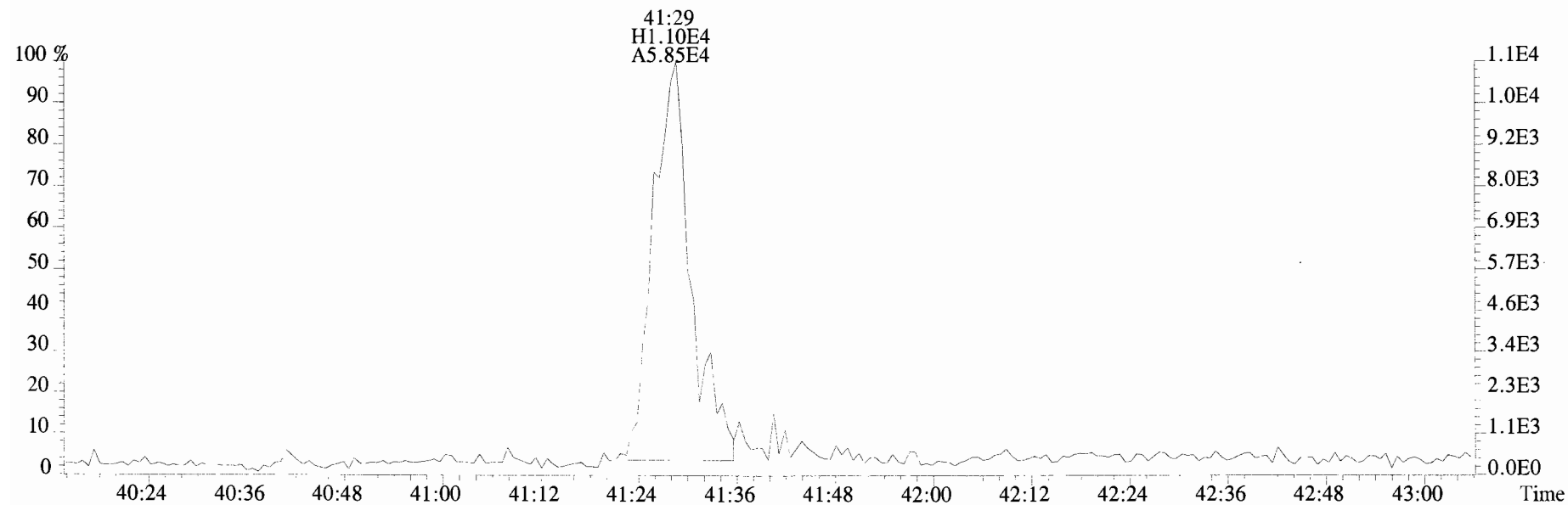
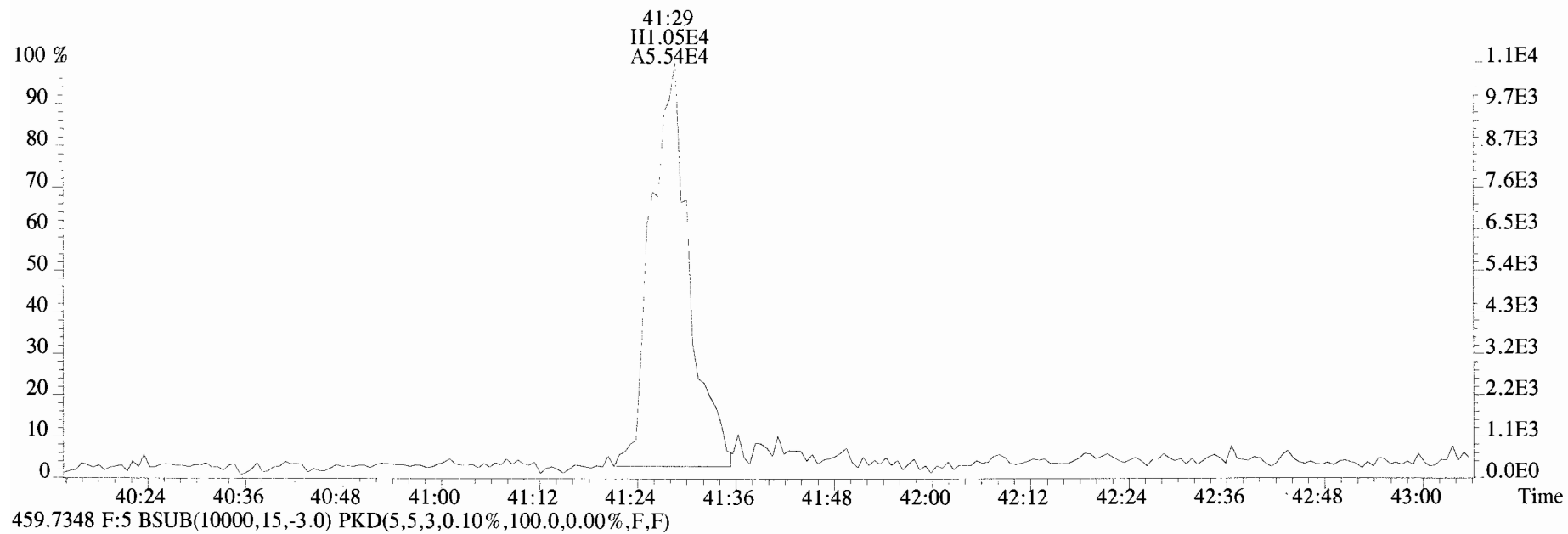
471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



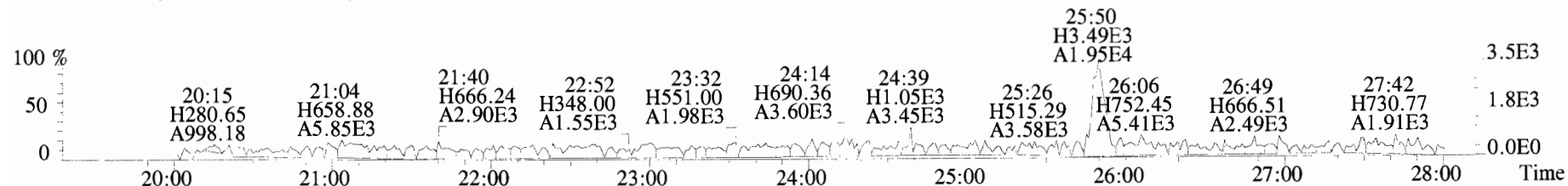
454.9728 F:5



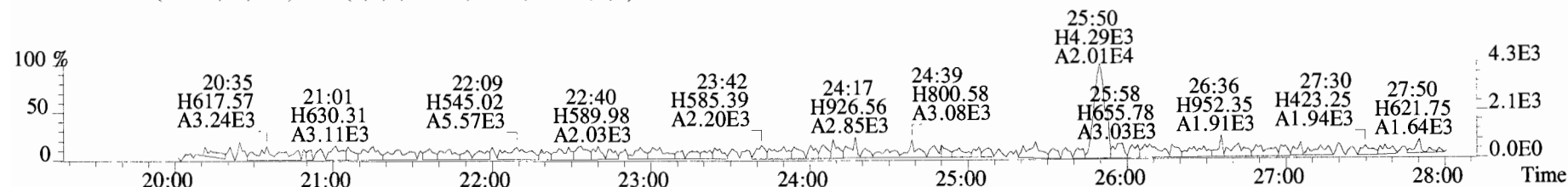
File:191009D1 #1-432 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



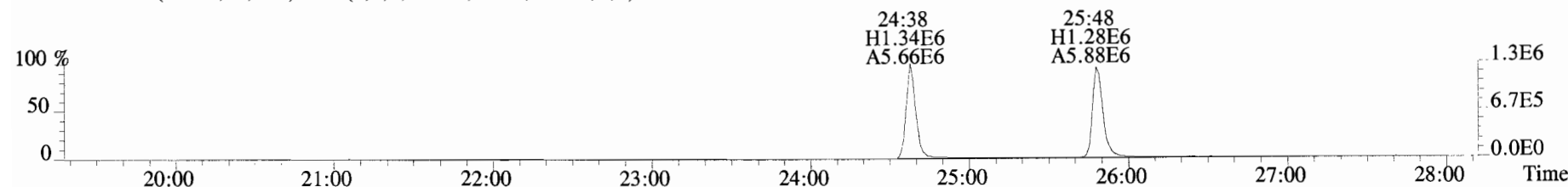
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
 303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



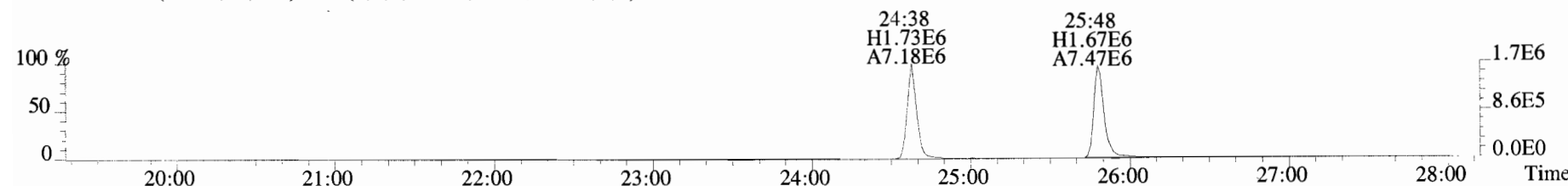
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



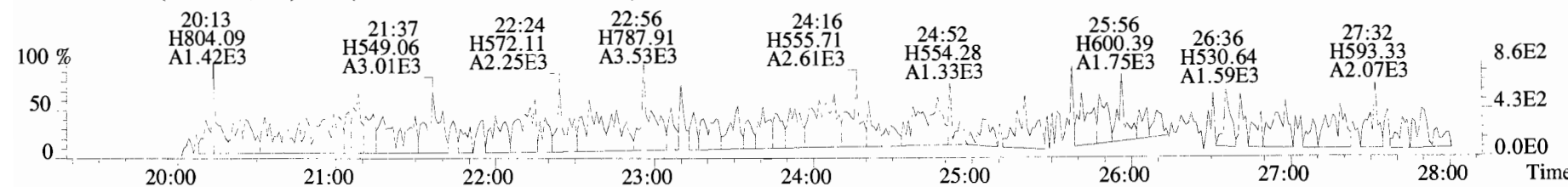
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



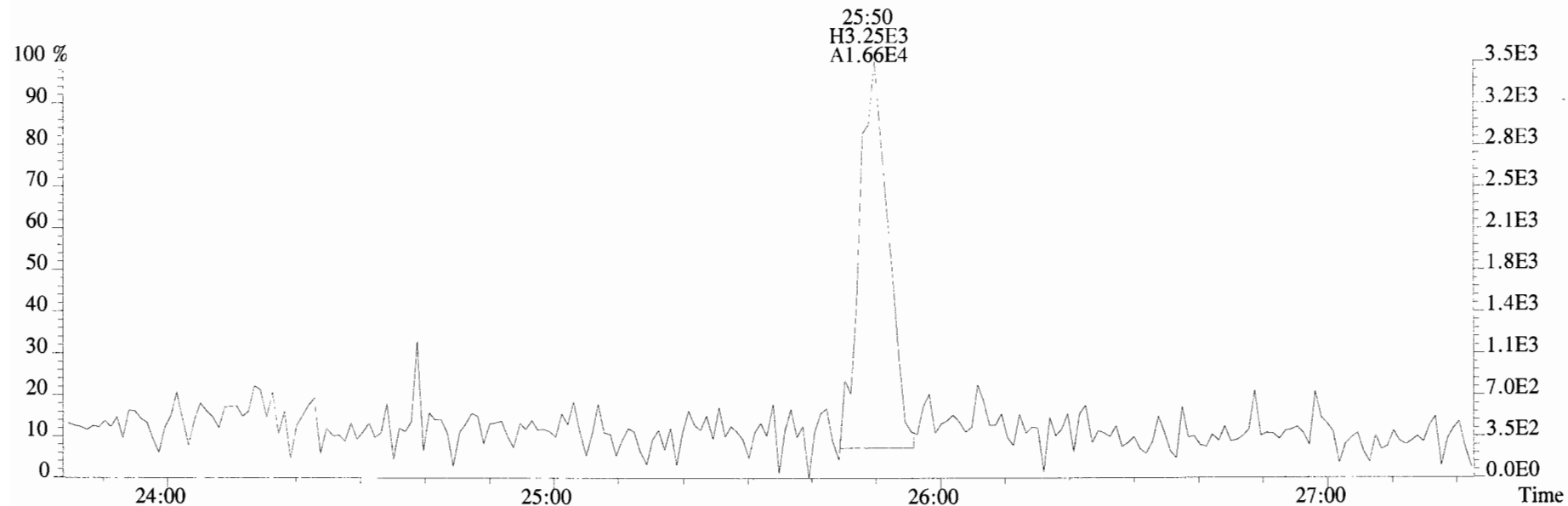
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



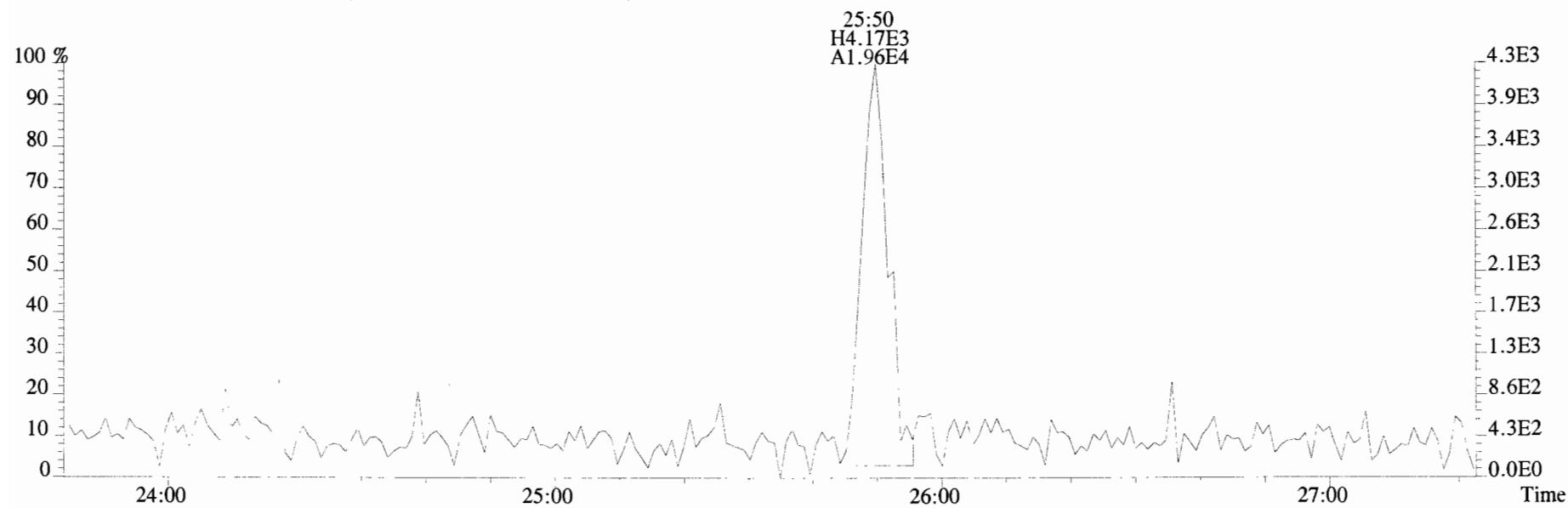
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



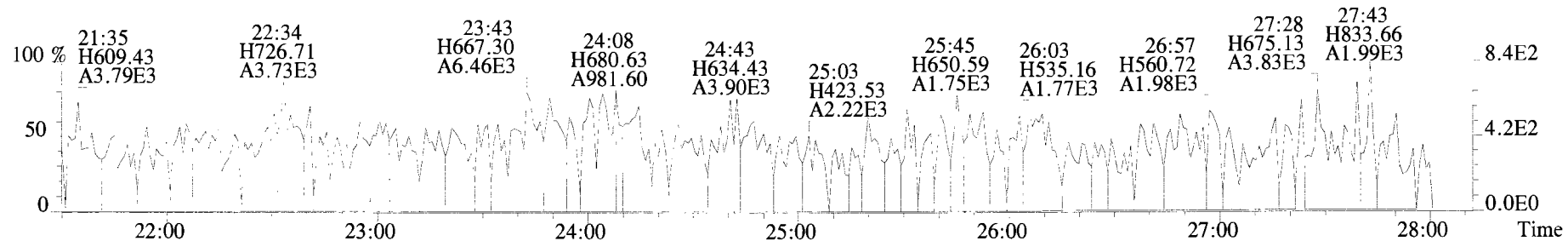
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



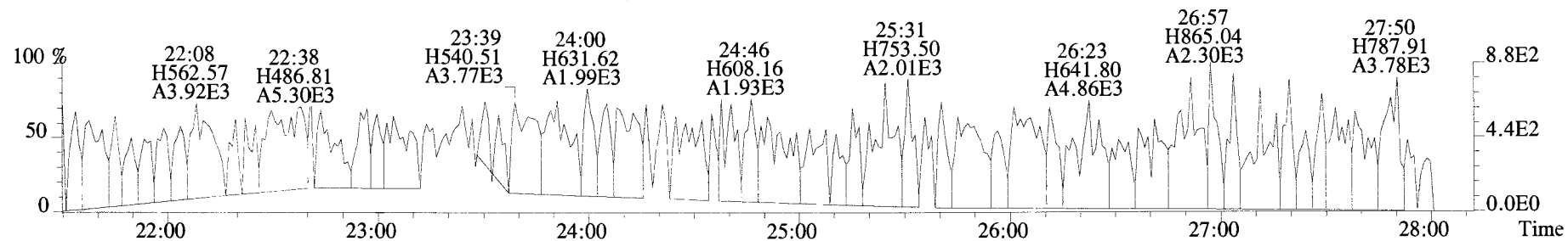
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



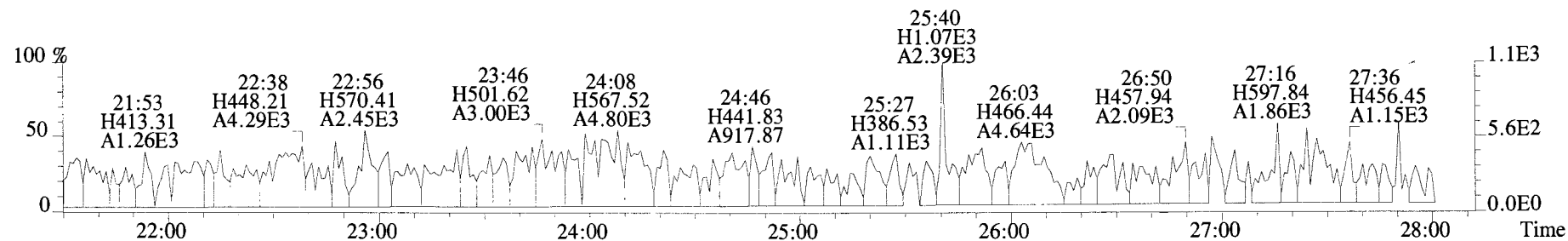
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
 339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



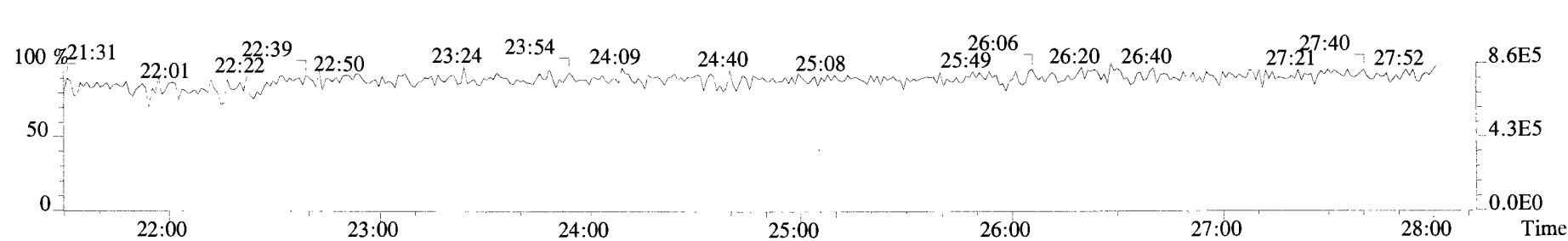
341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



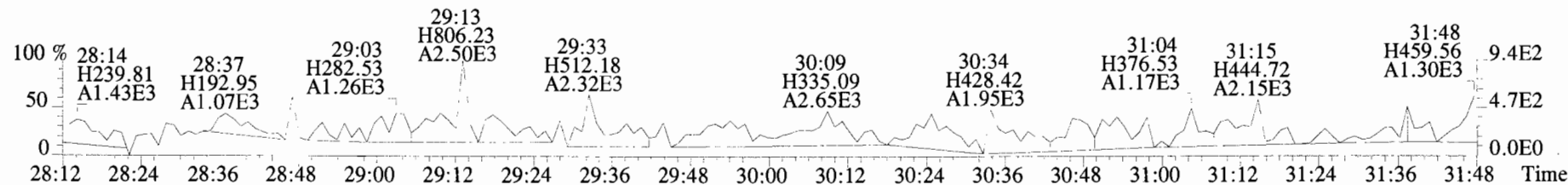
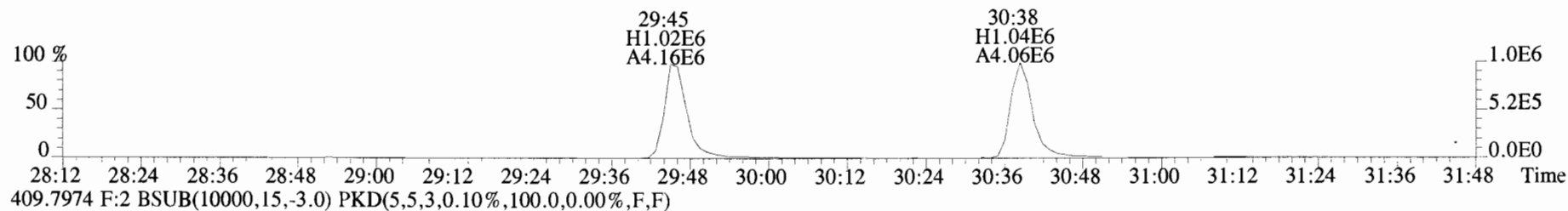
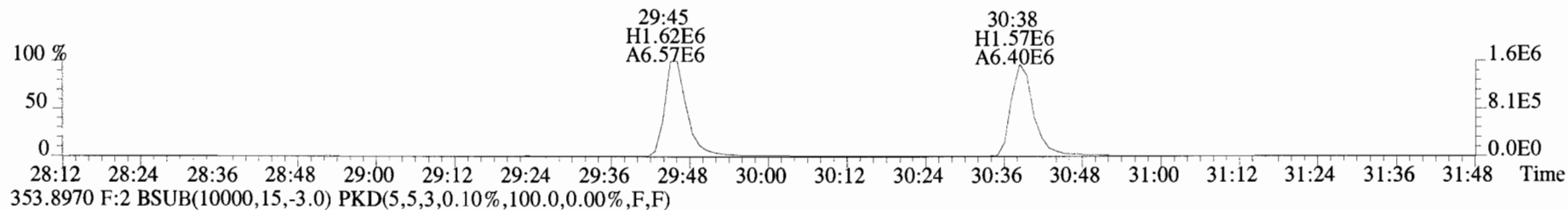
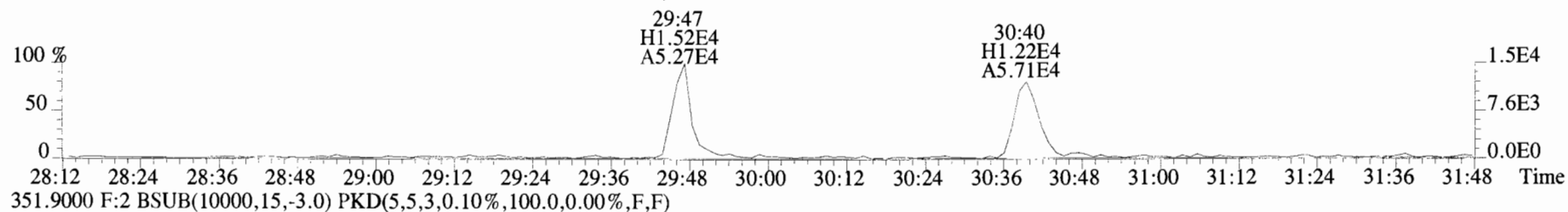
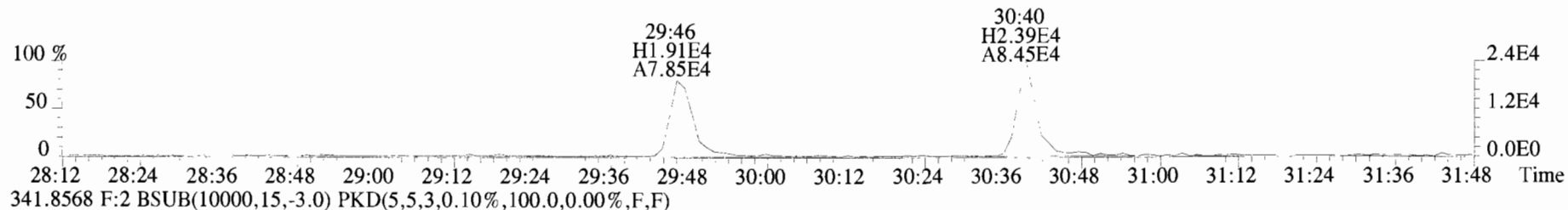
409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



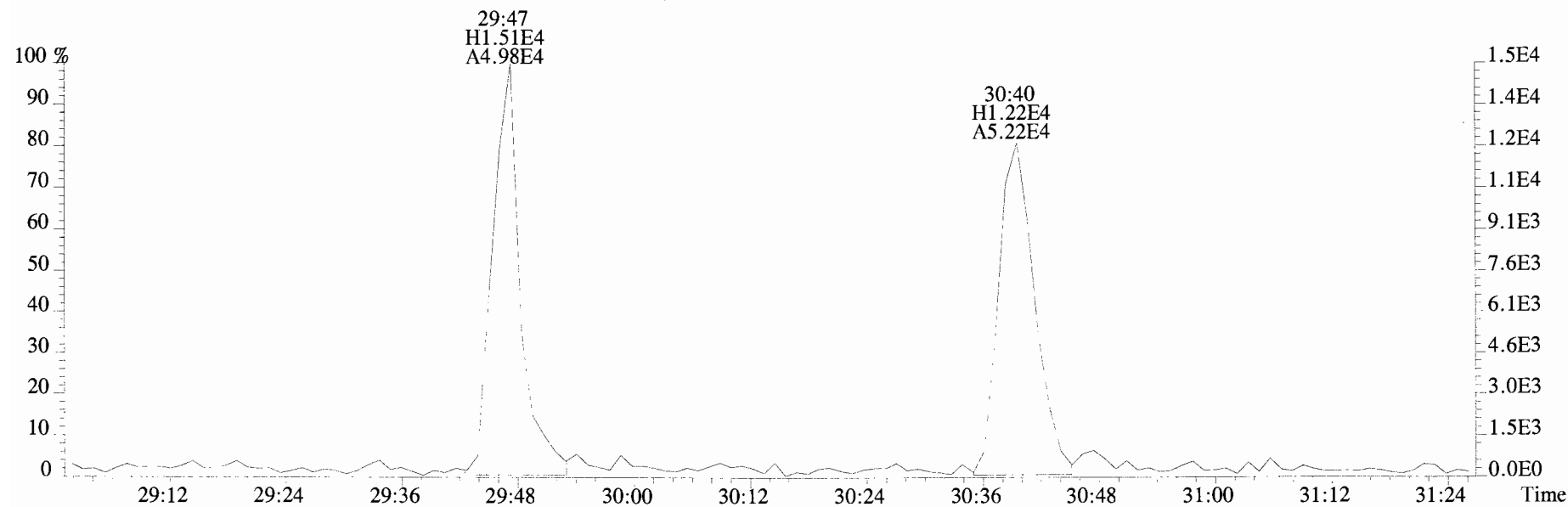
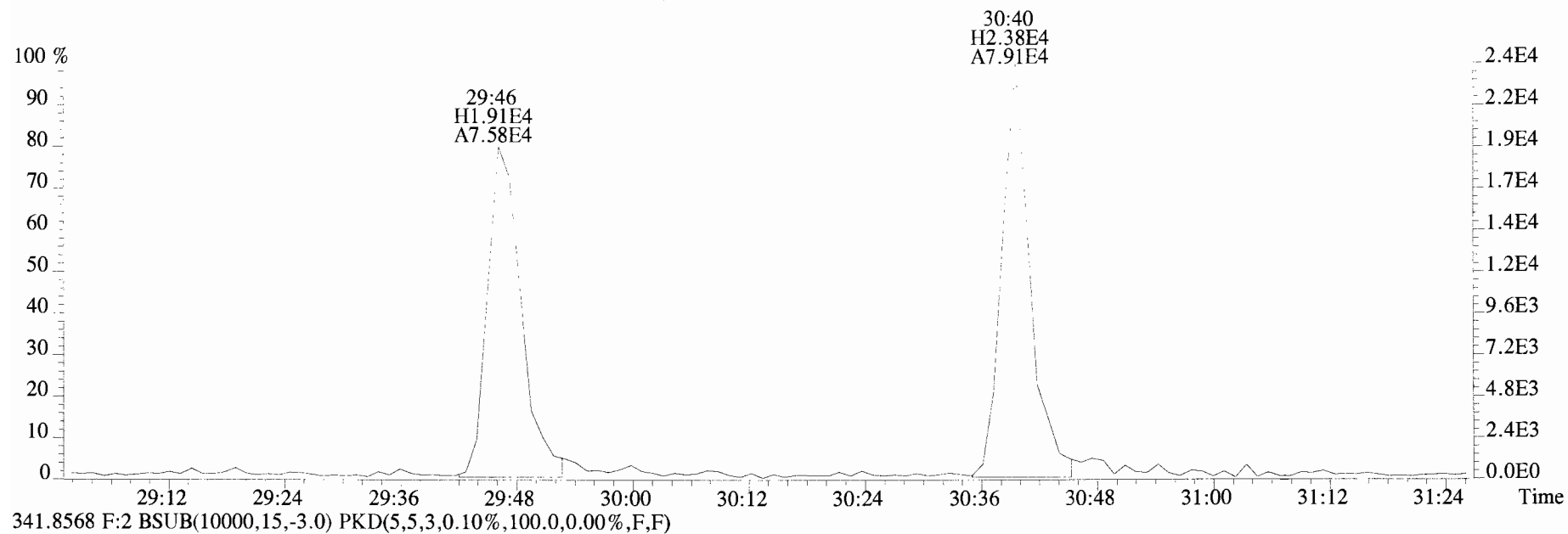
316.9824



File:191009D1 #1-210 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

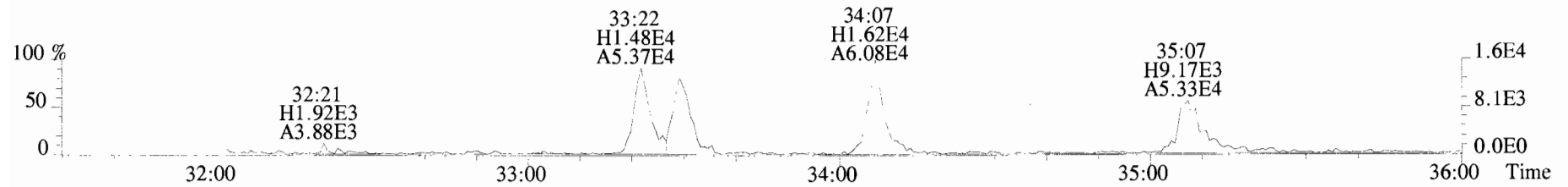


File:191009D1 #1-210 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

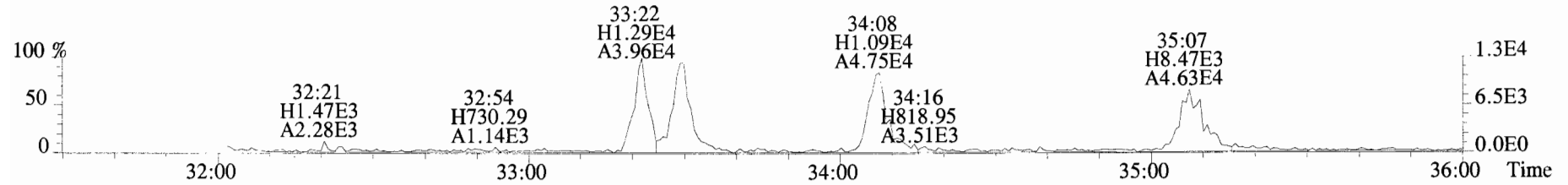




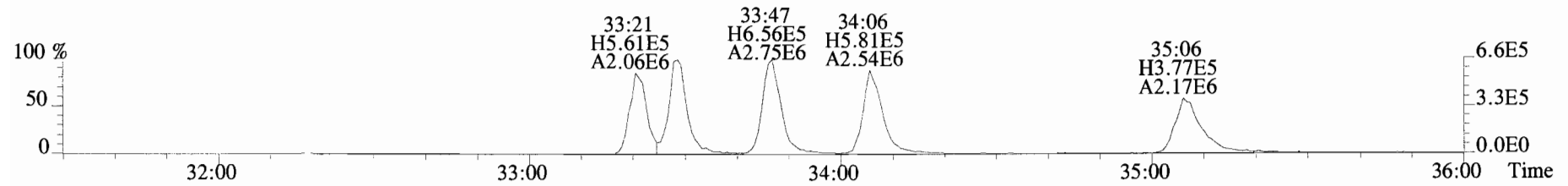
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
 373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



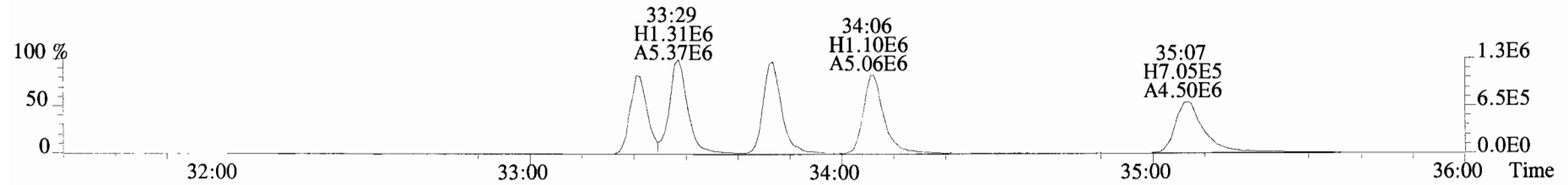
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



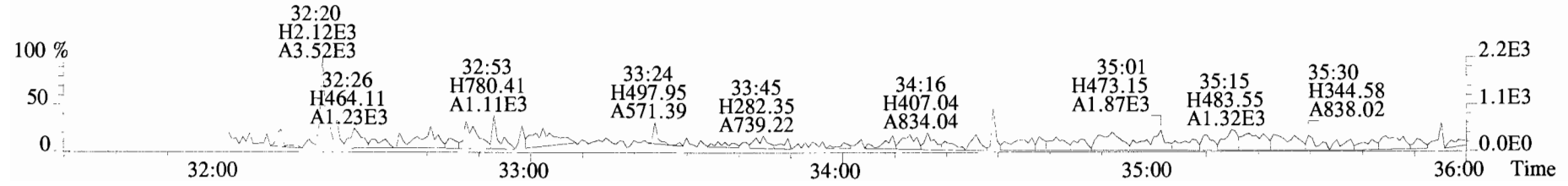
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



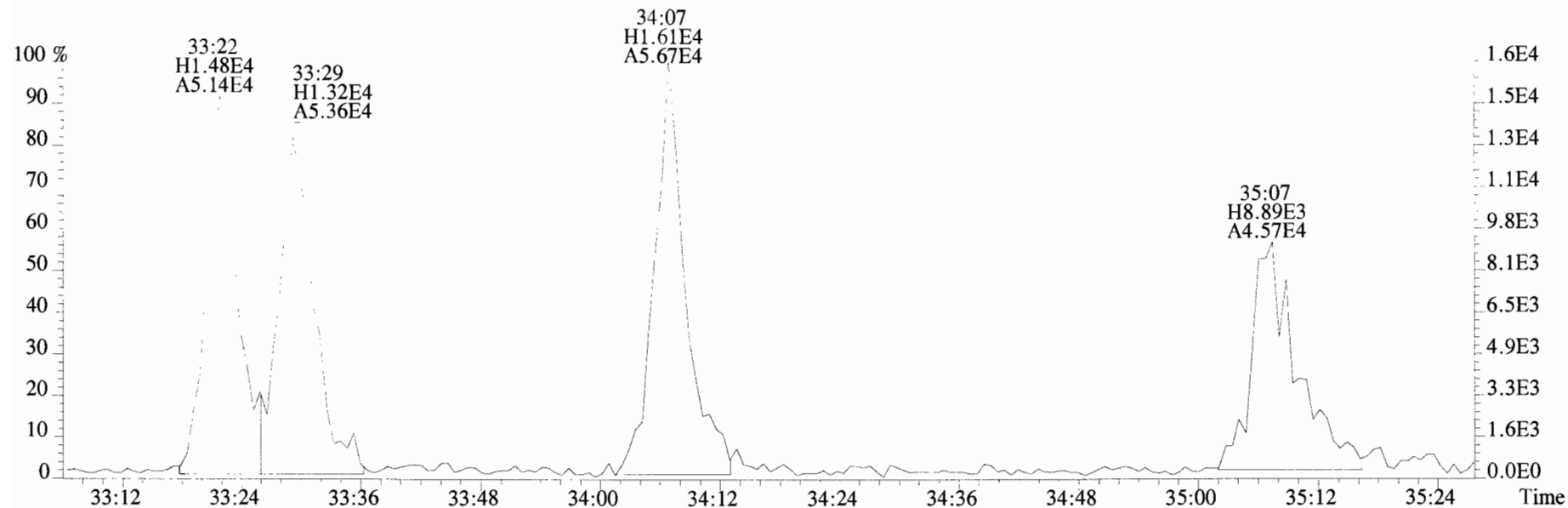
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



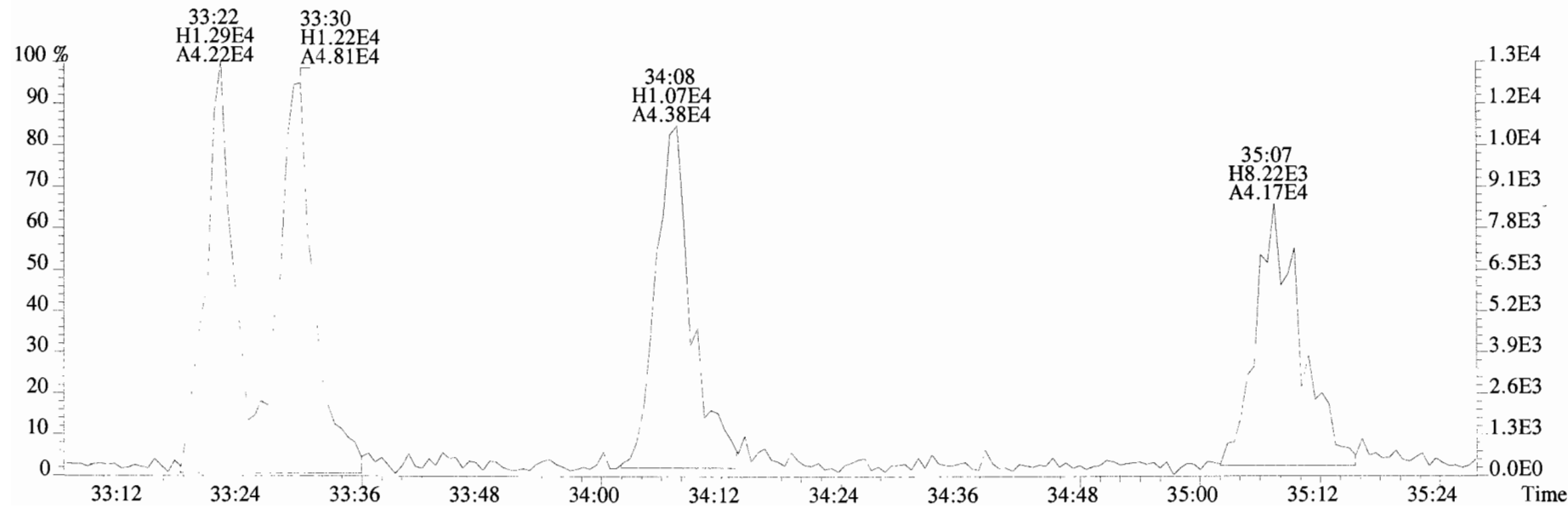
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



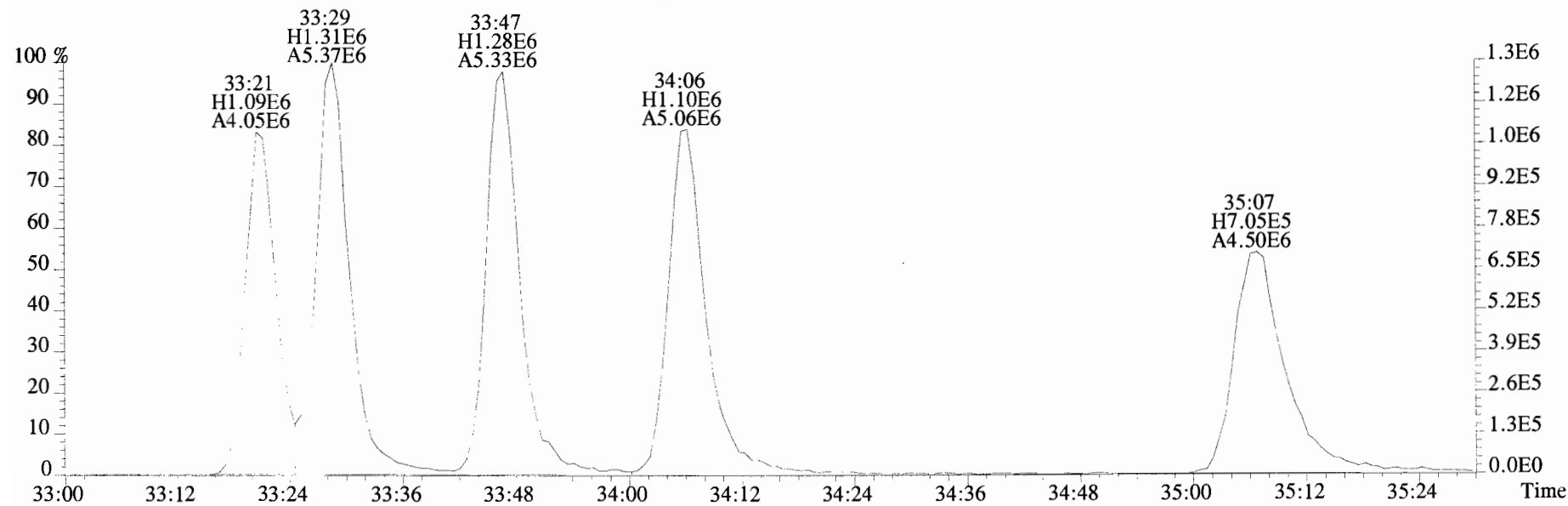
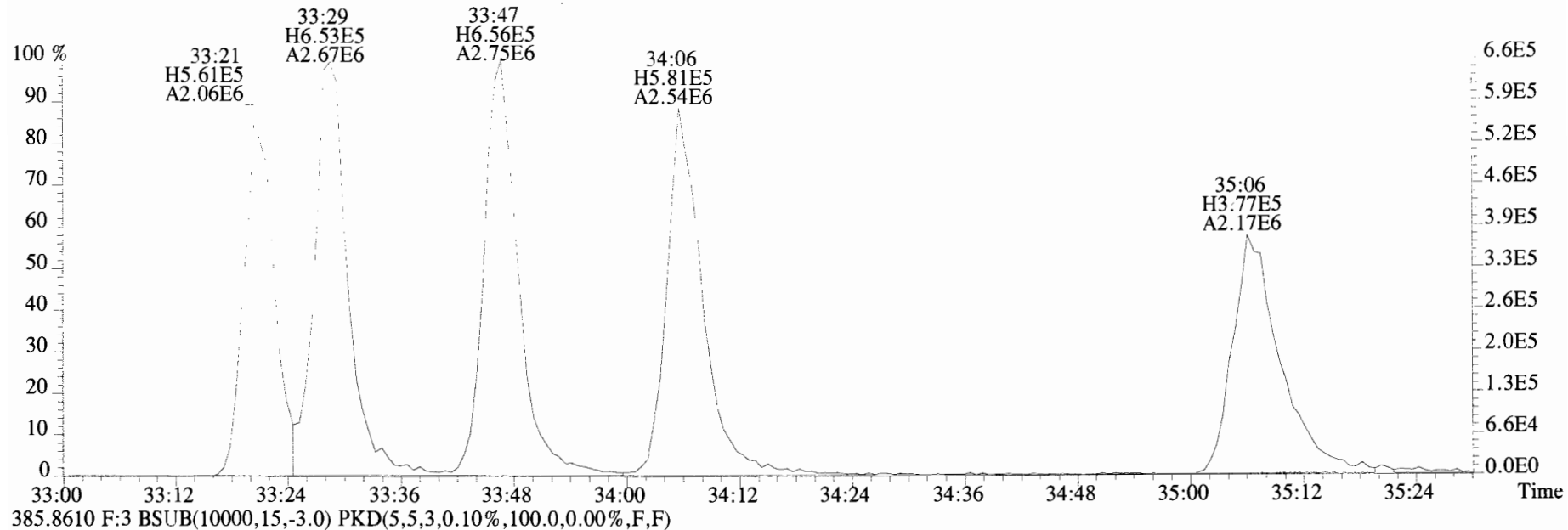
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
373.8207 F:3 BSUB(10000,15,-3.0)



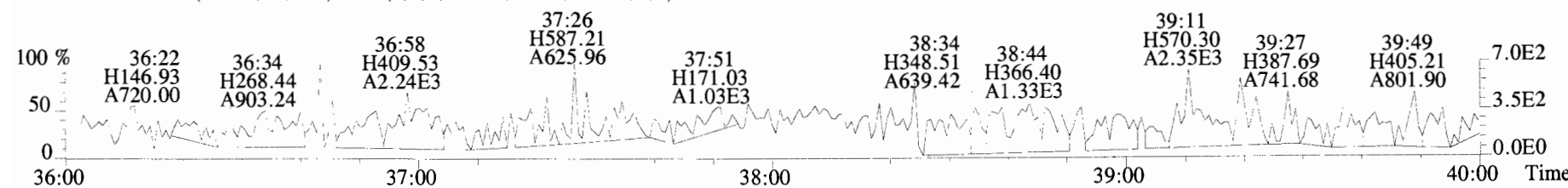
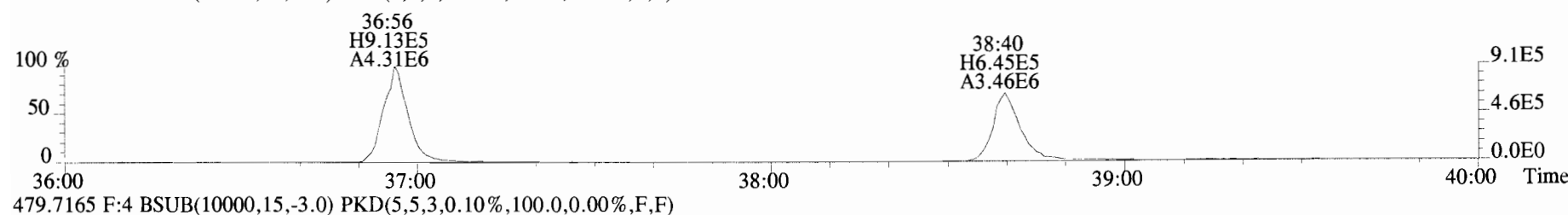
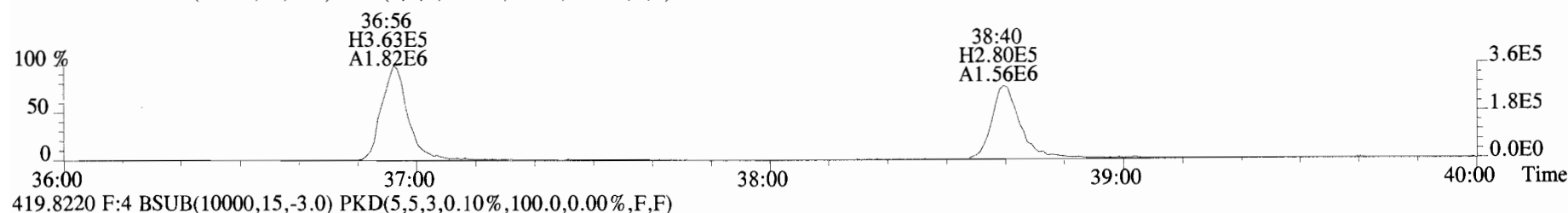
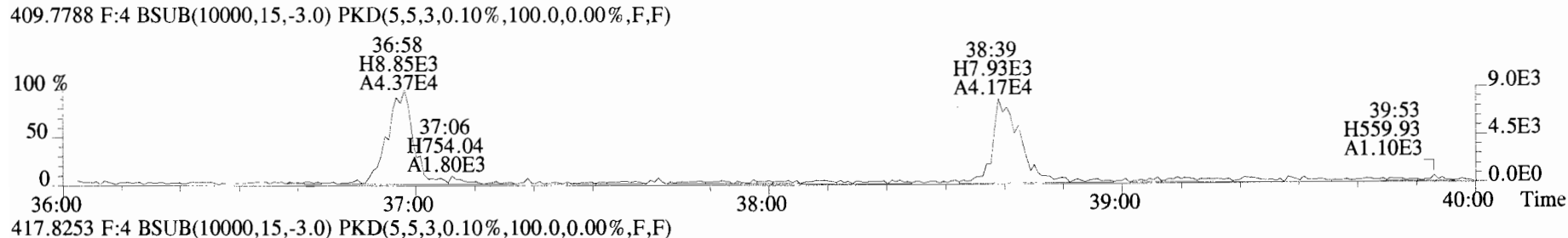
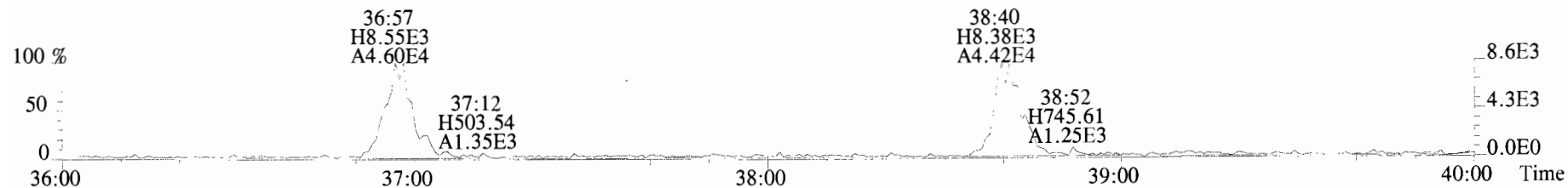
375.8178 F:3 BSUB(10000,15,-3.0)



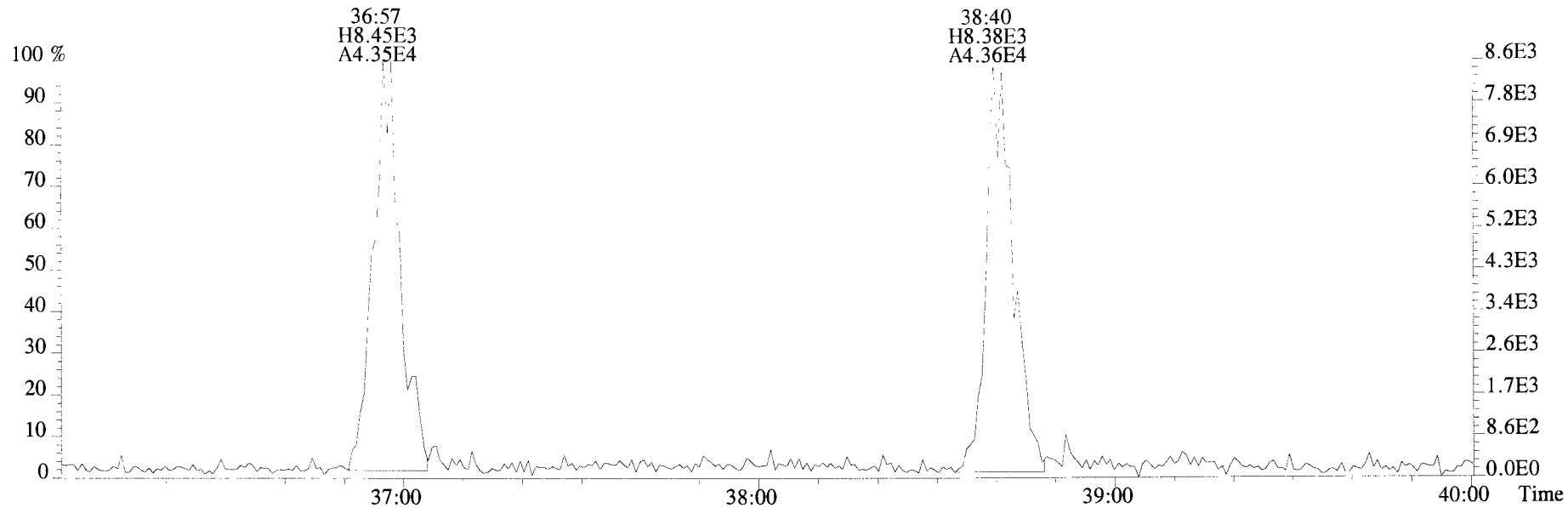
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



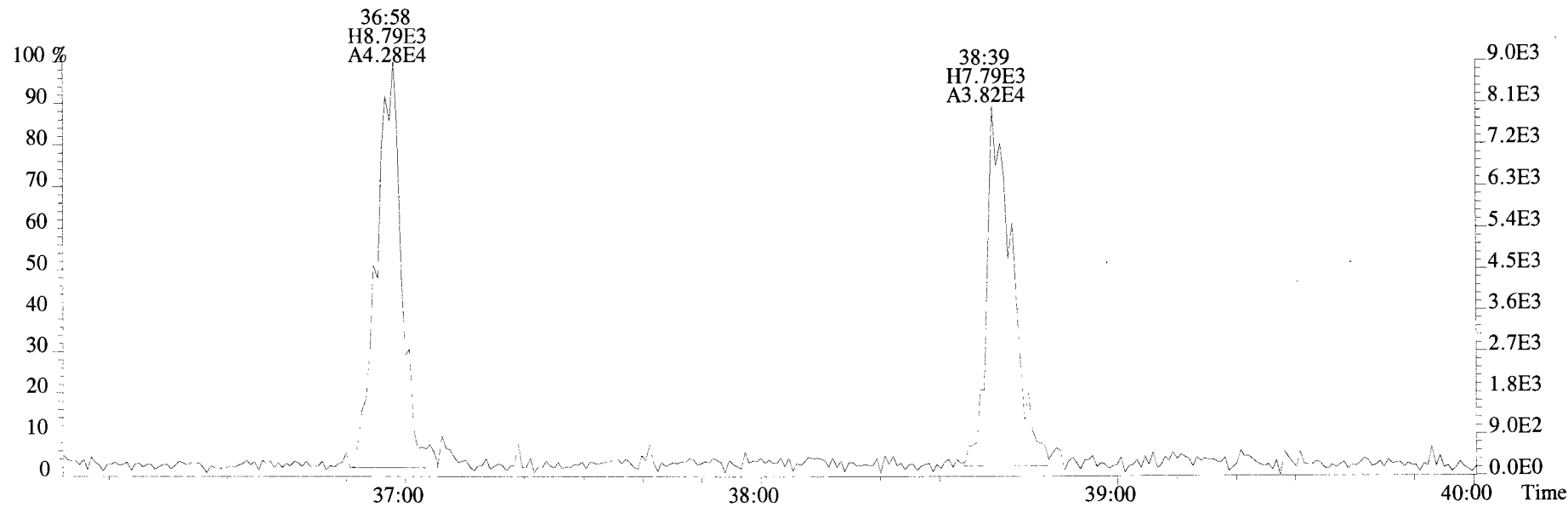
File:191009D1 #1-355 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



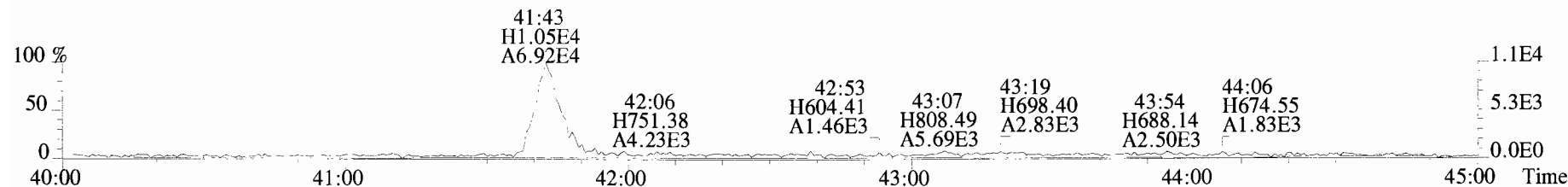
File:191009D1 #1-355 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



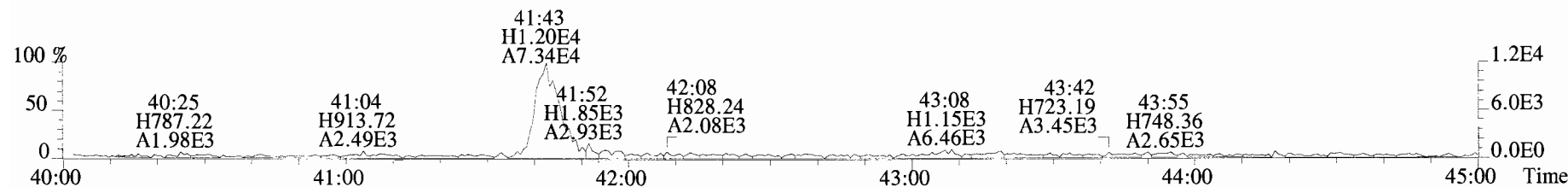
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



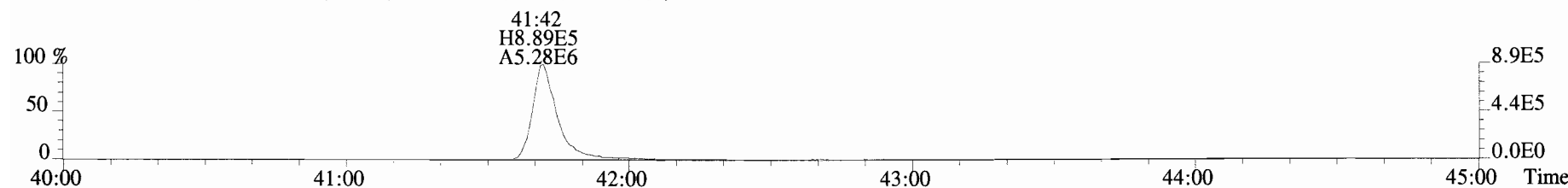
File:191009D1 #1-432 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
 441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



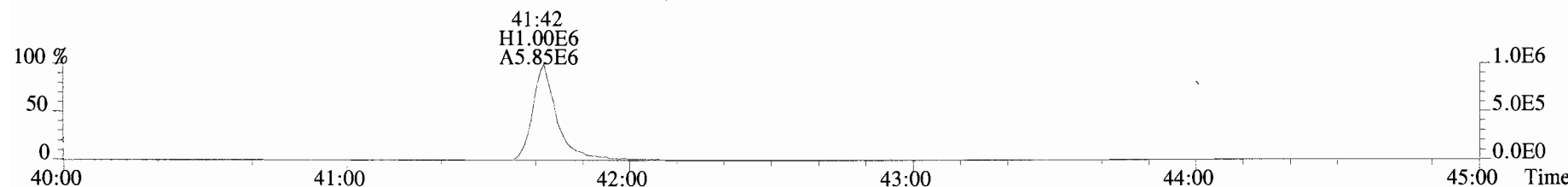
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



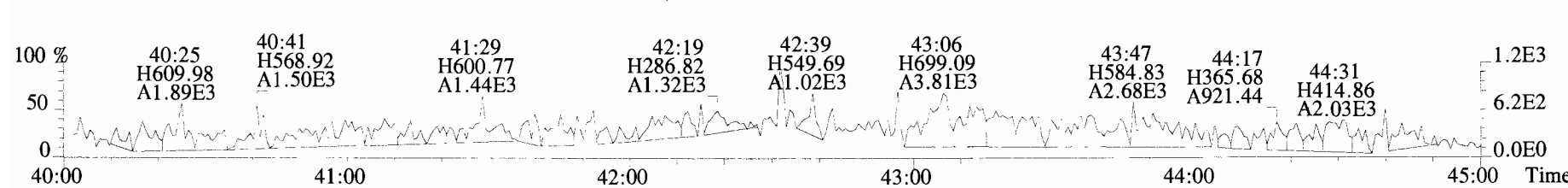
453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



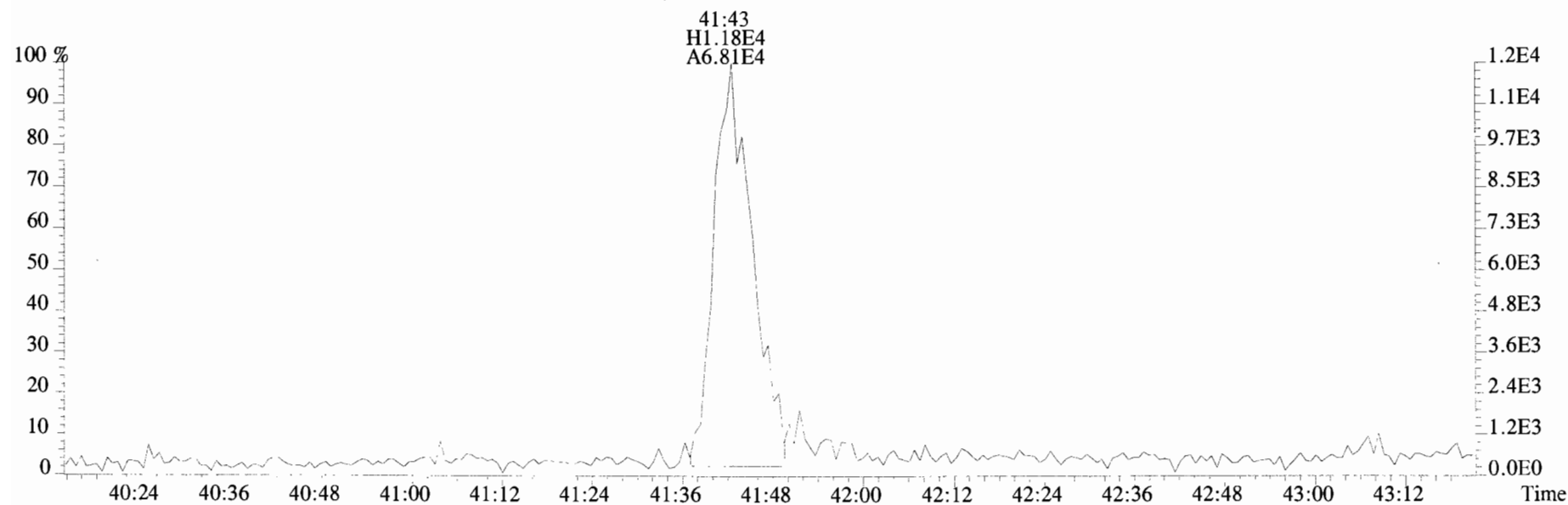
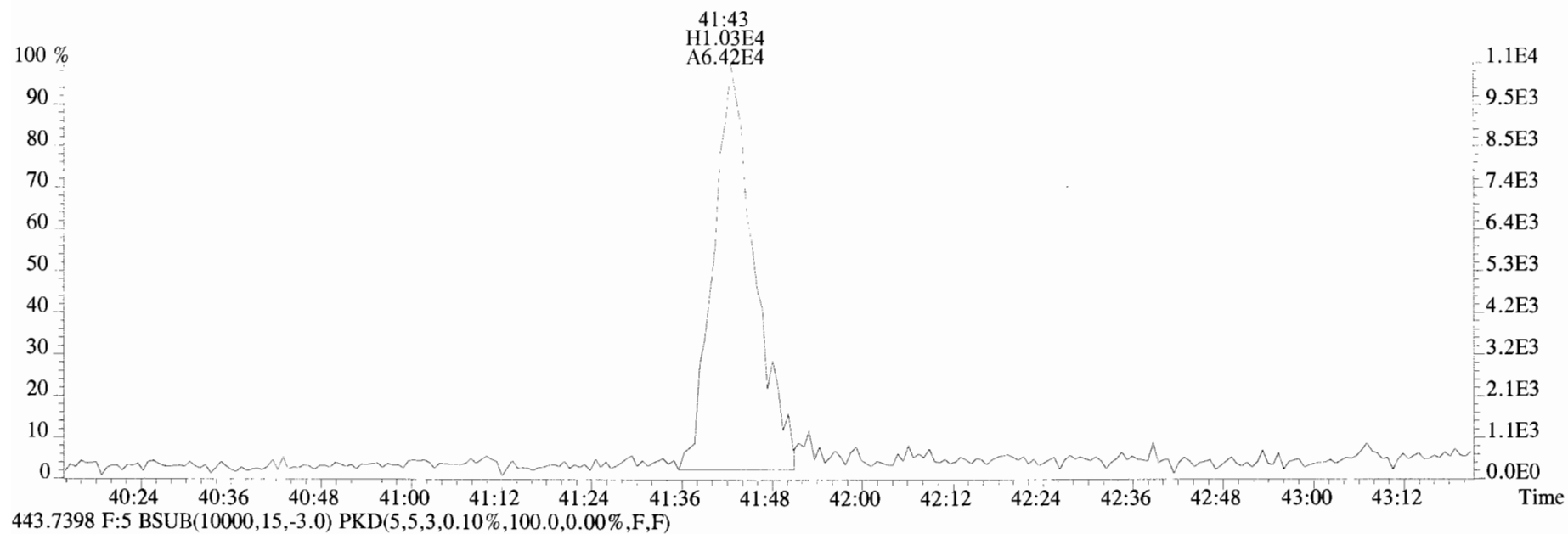
455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



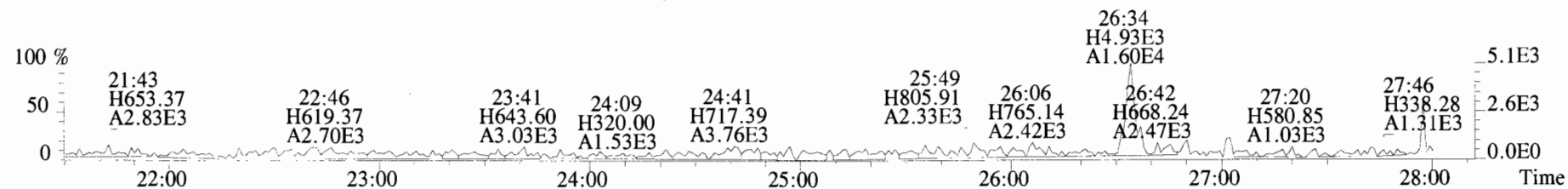
513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



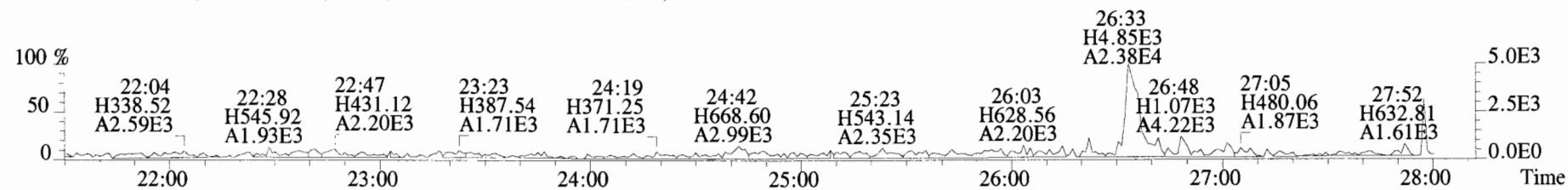
File:191009D1 #1-432 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



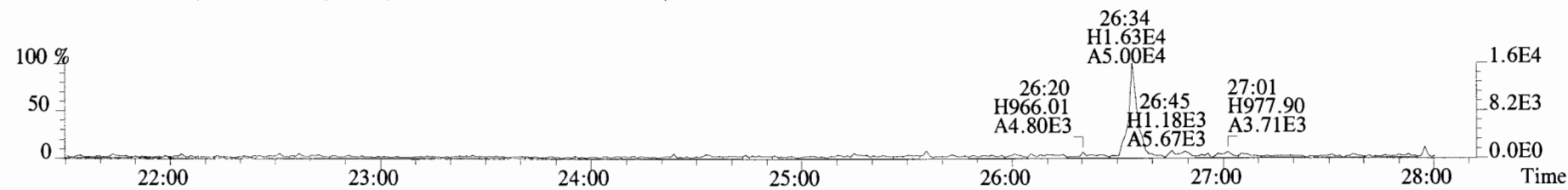
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
319.8965 S:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



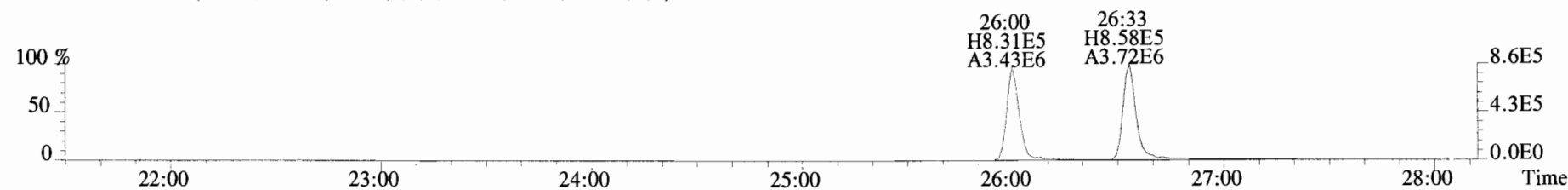
321.8936 S:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



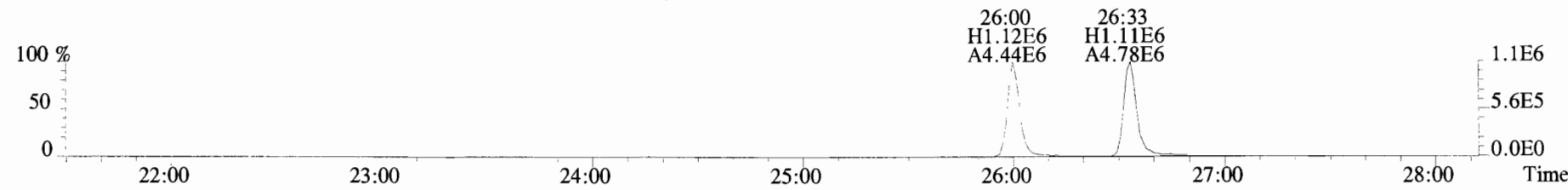
327.8847 S:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



331.9368 S:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

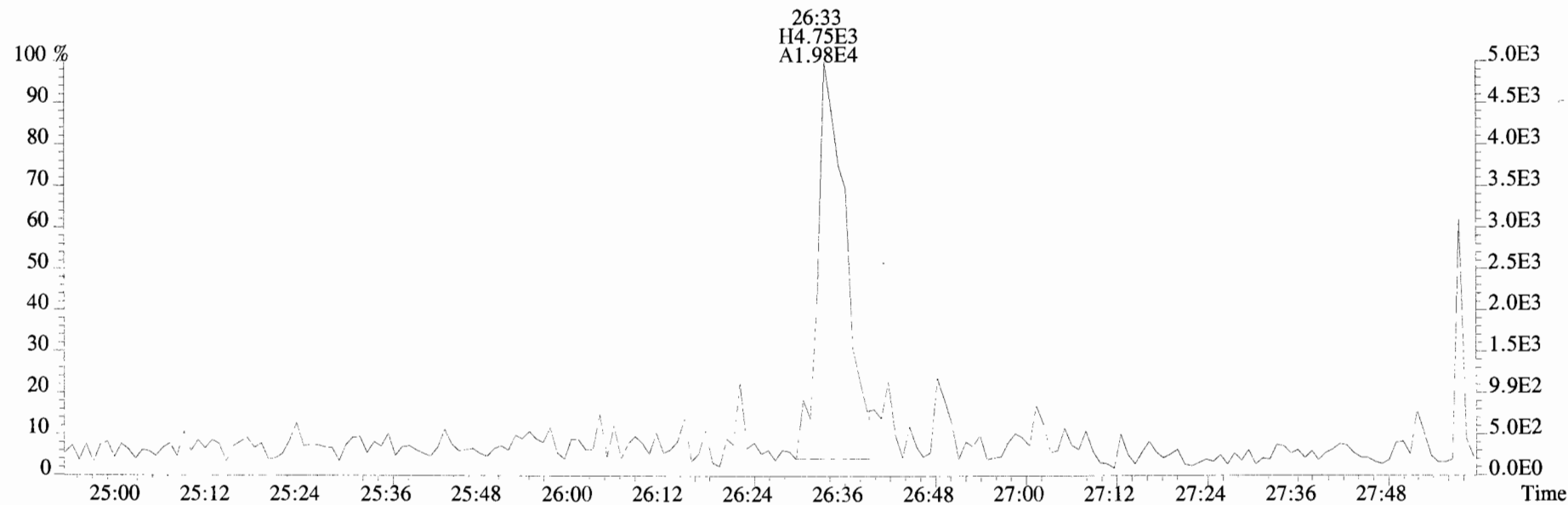
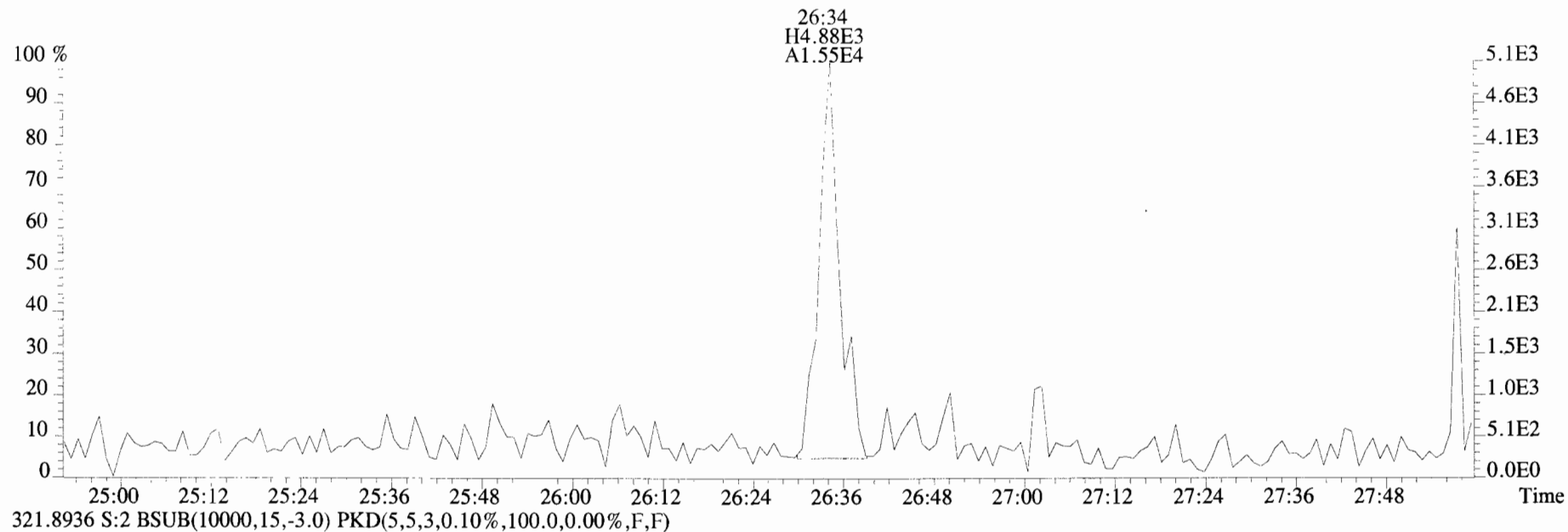


333.9339 S:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

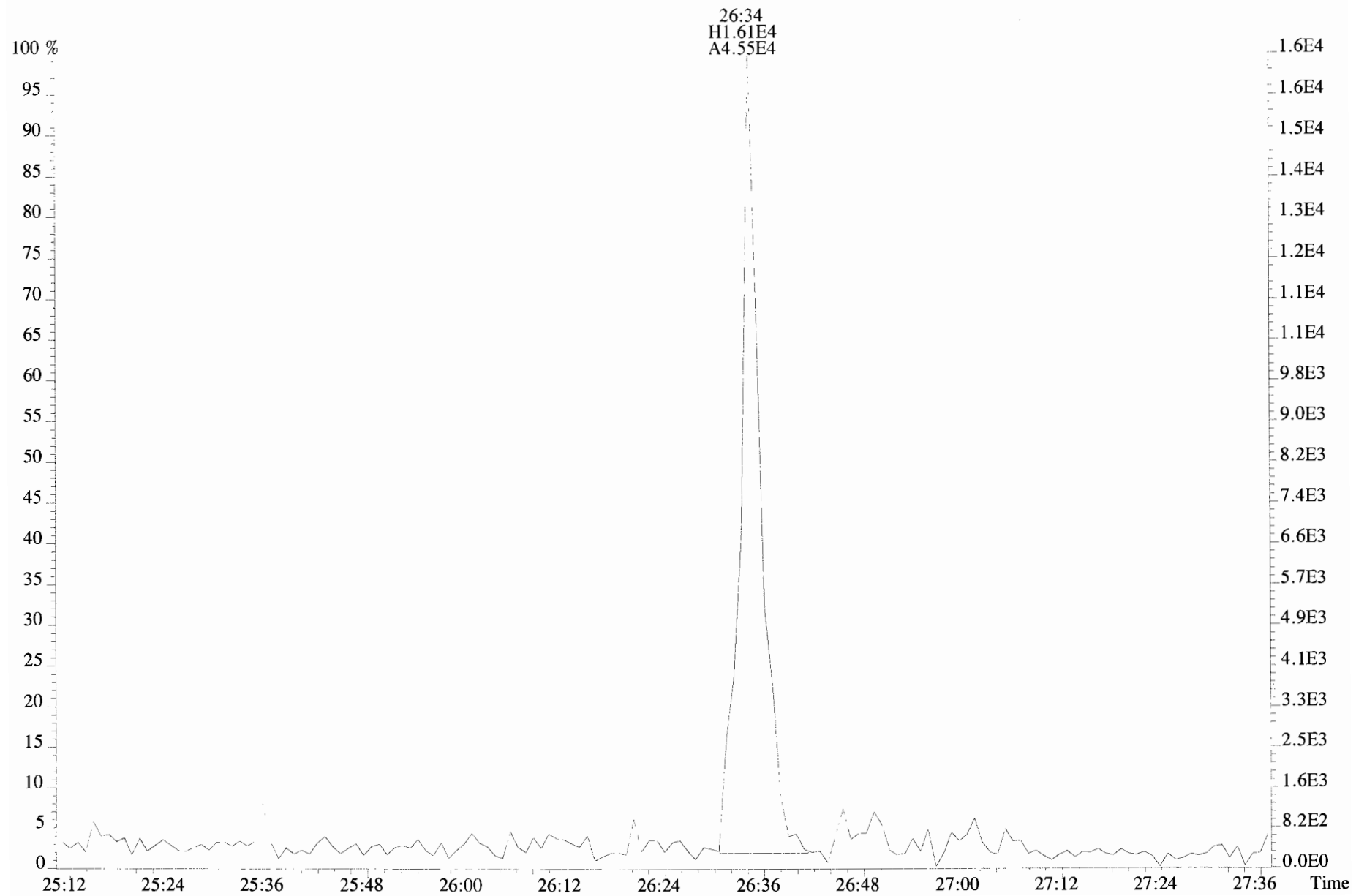




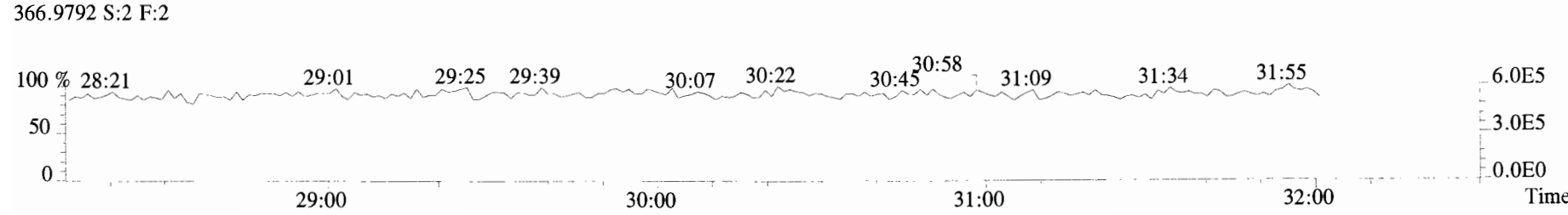
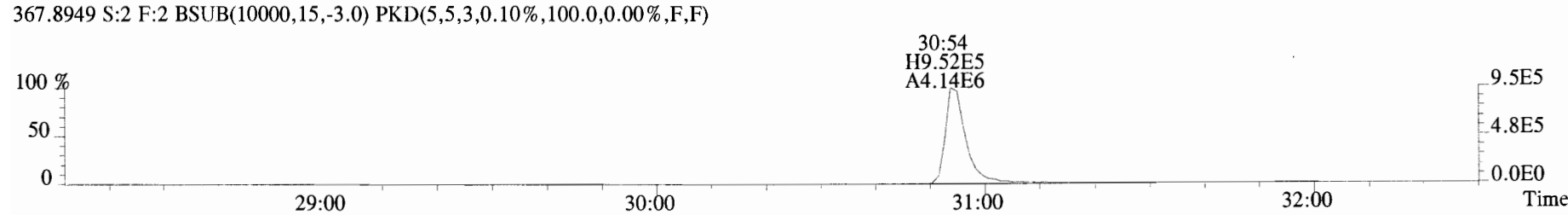
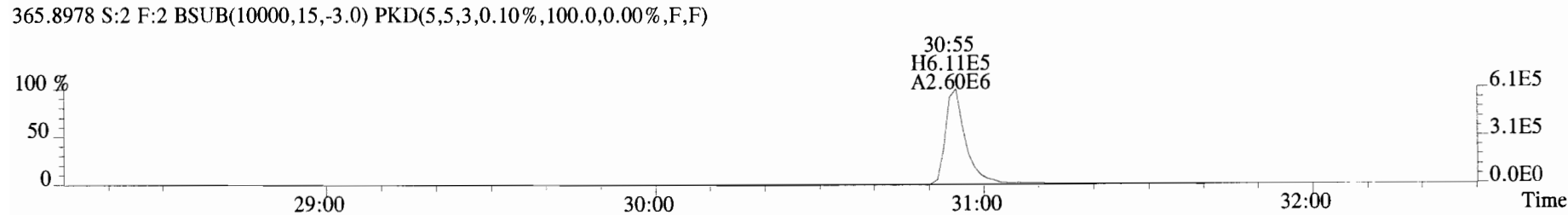
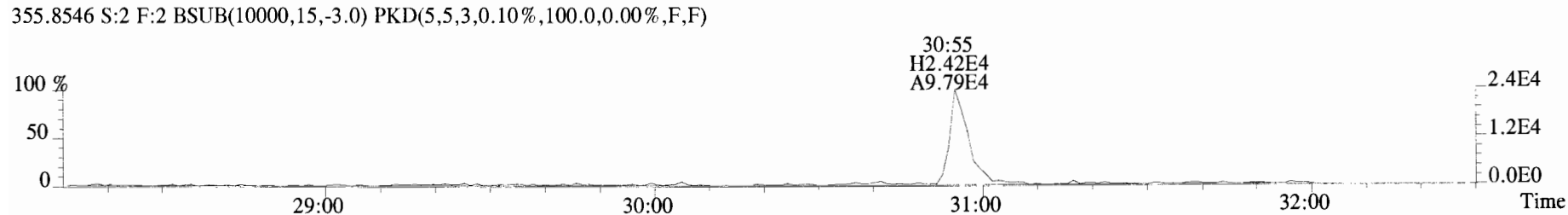
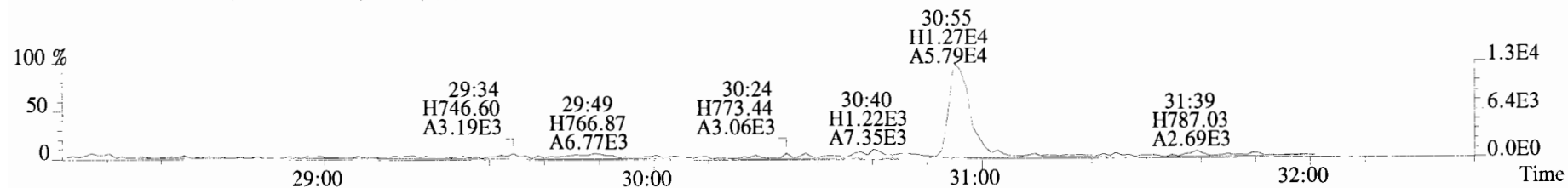
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



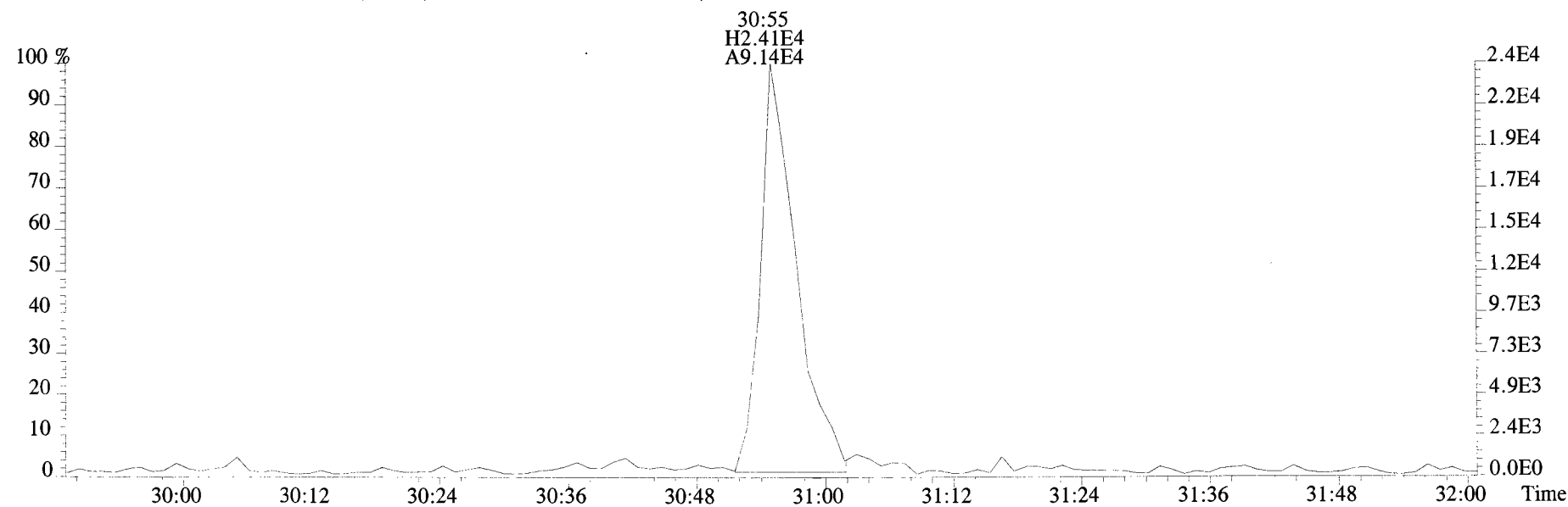
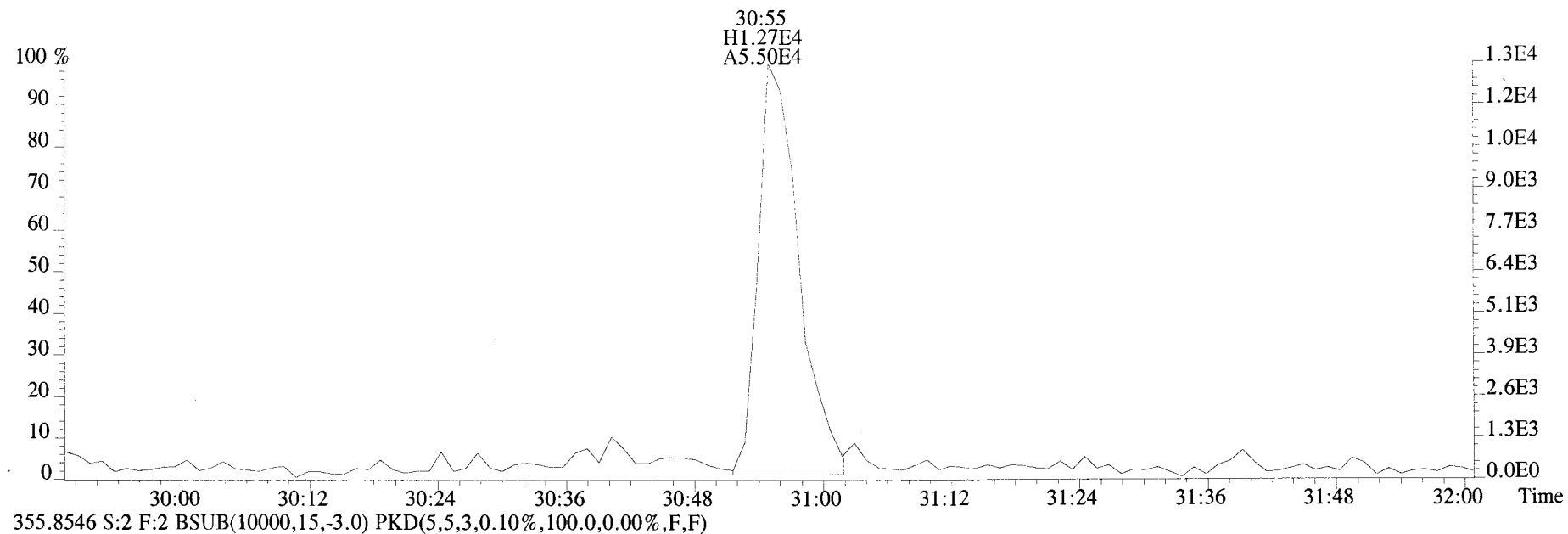
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
327.8847 S:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



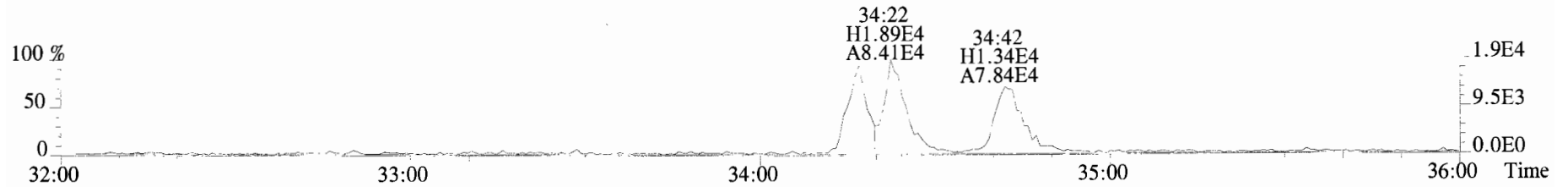
File:191009D1 #1-211 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



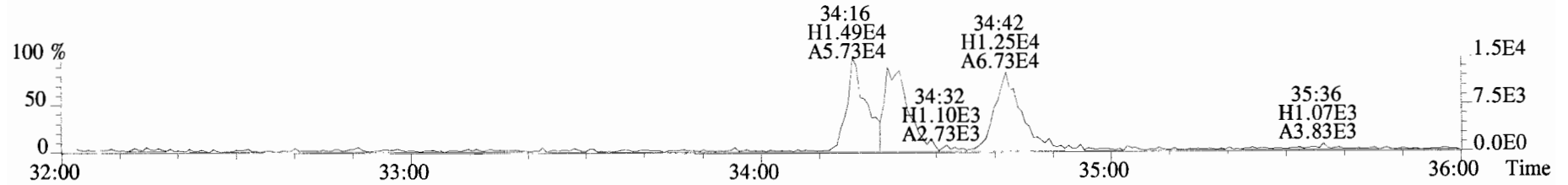
File:191009D1 #1-211 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



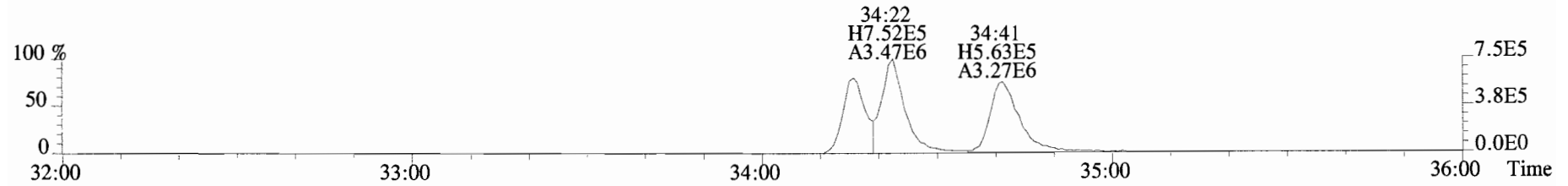
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



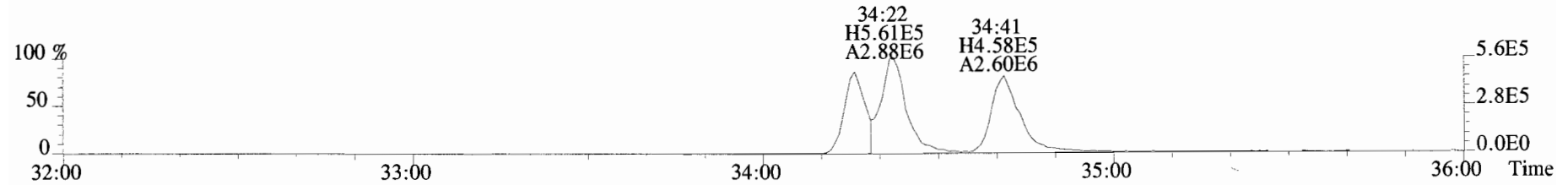
391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



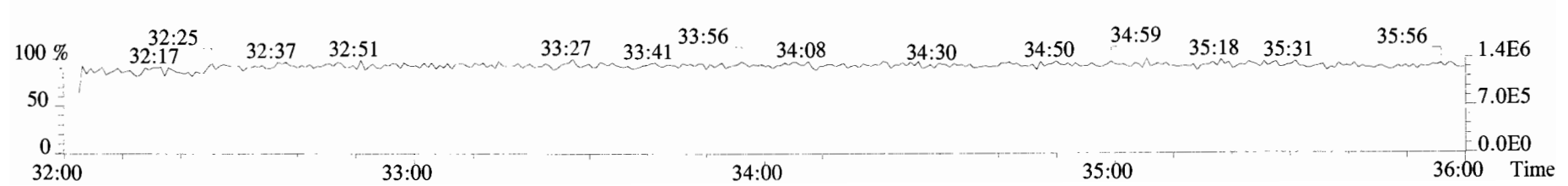
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



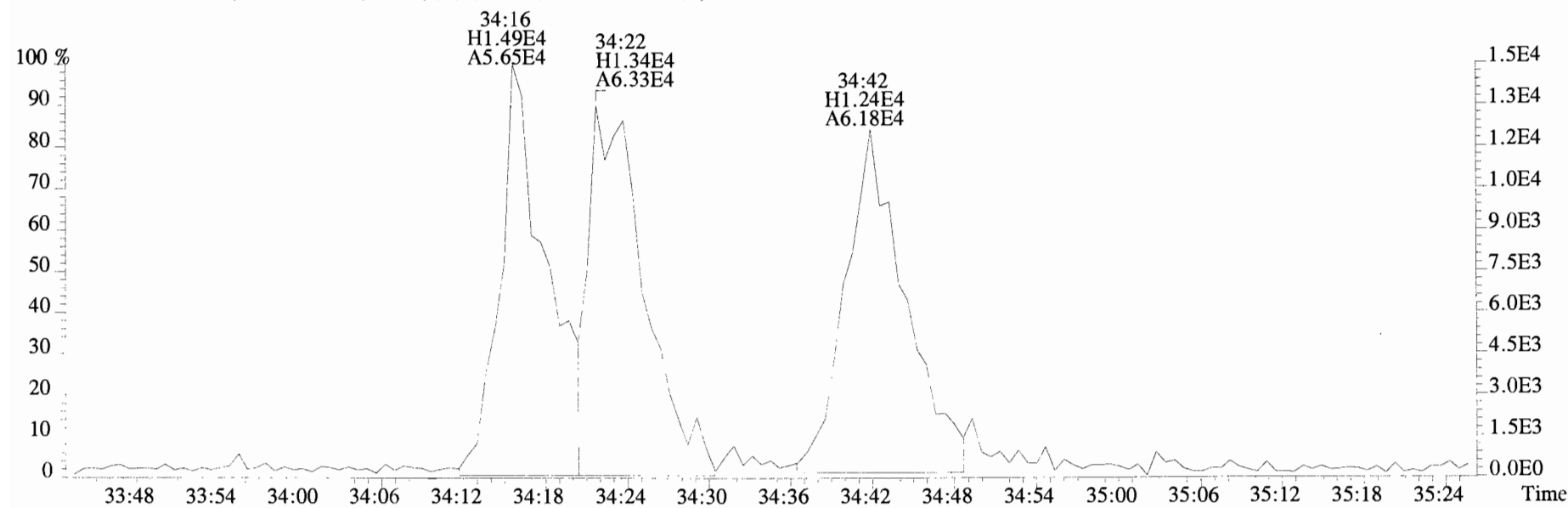
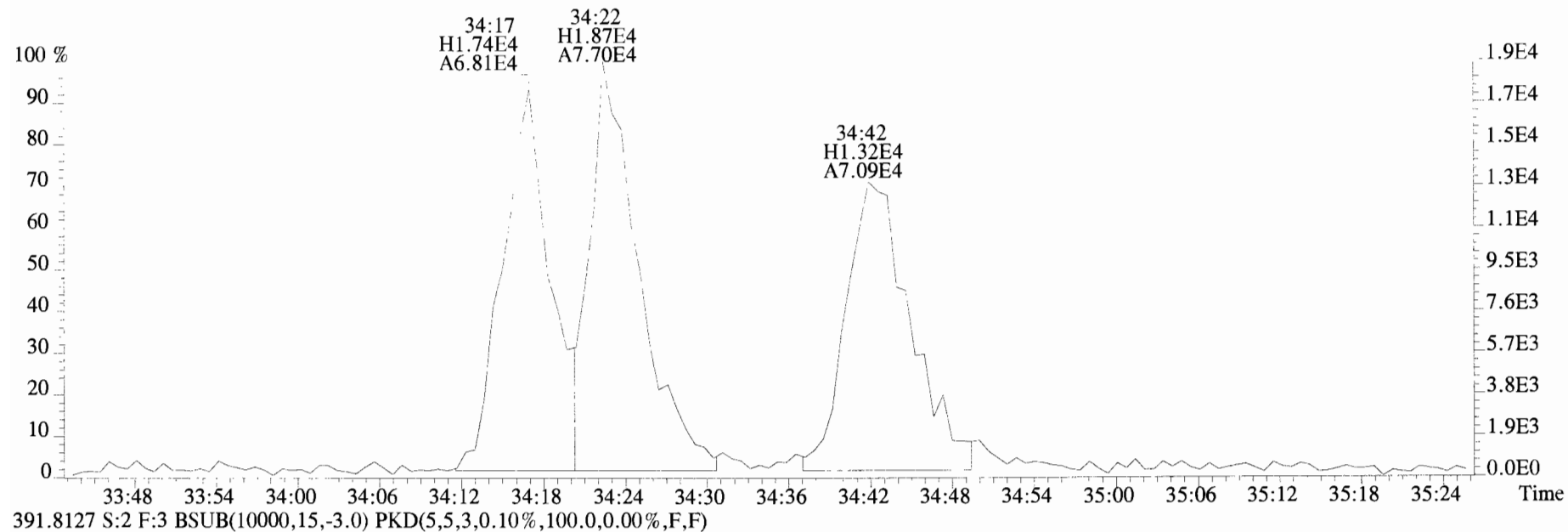
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



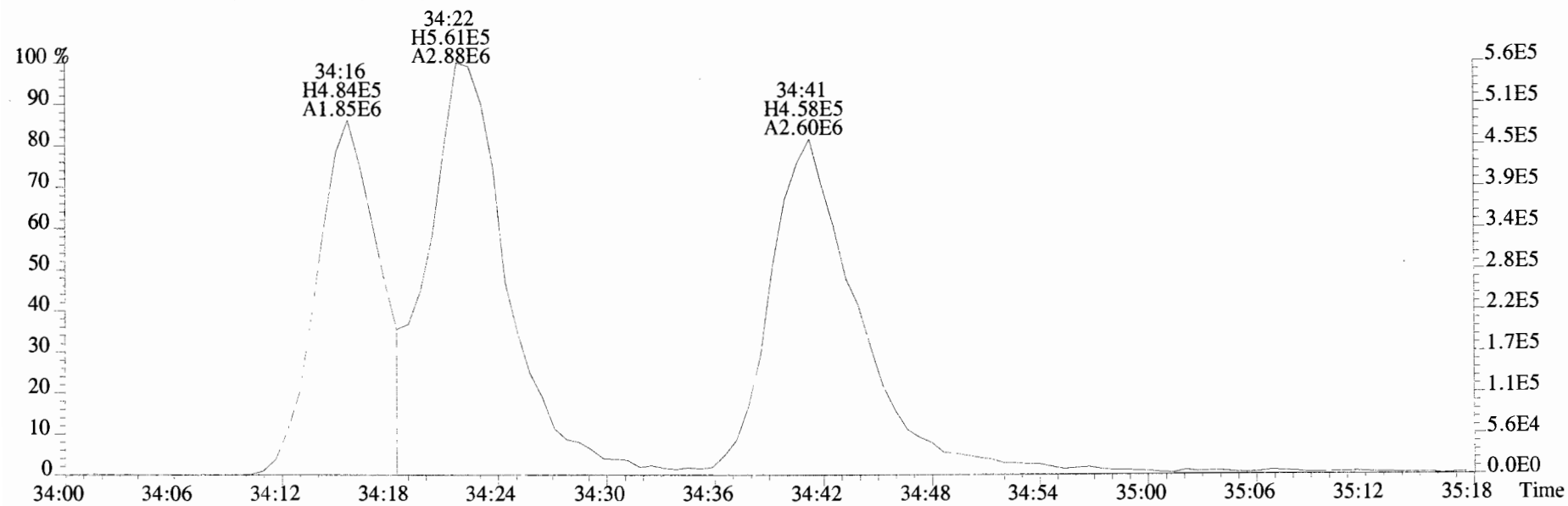
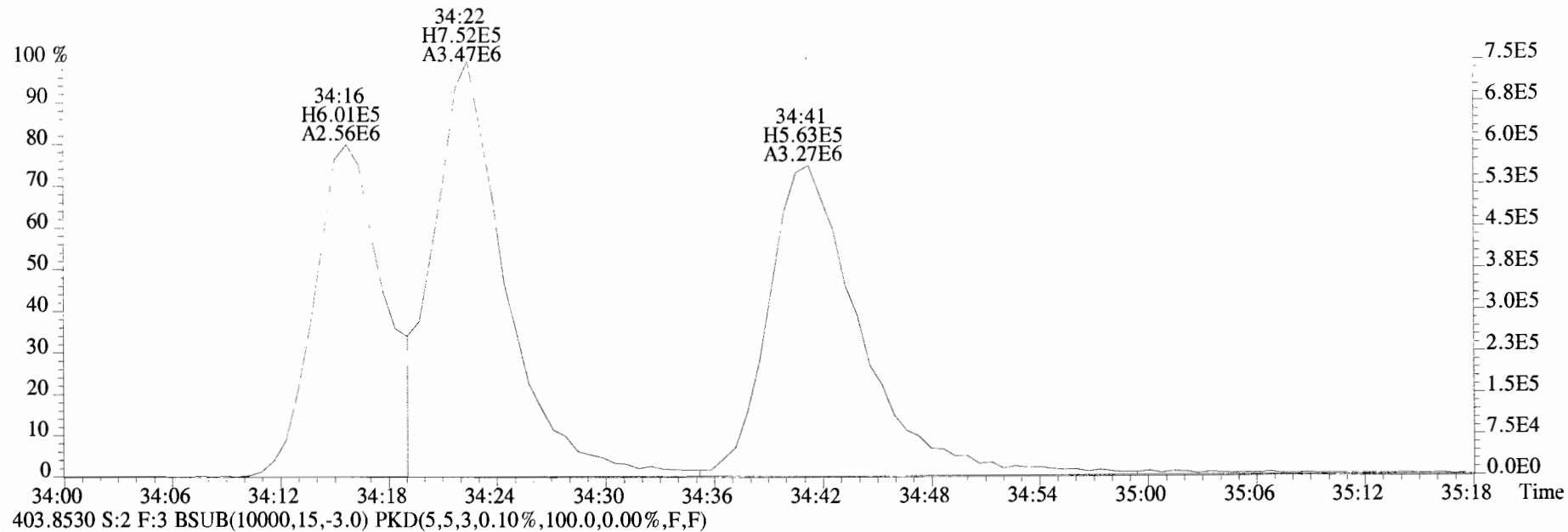
392.9760 S:2 F:3



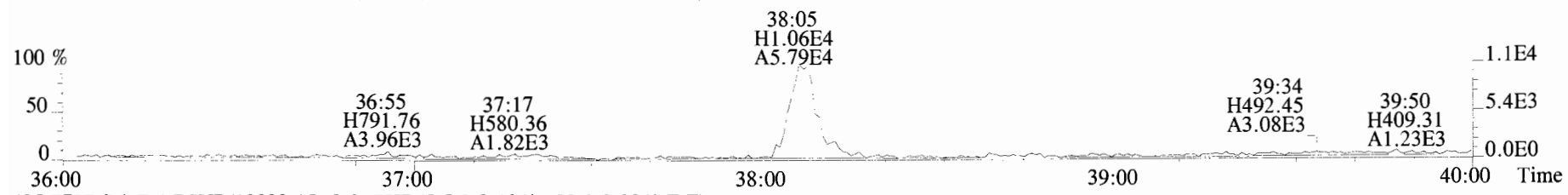
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



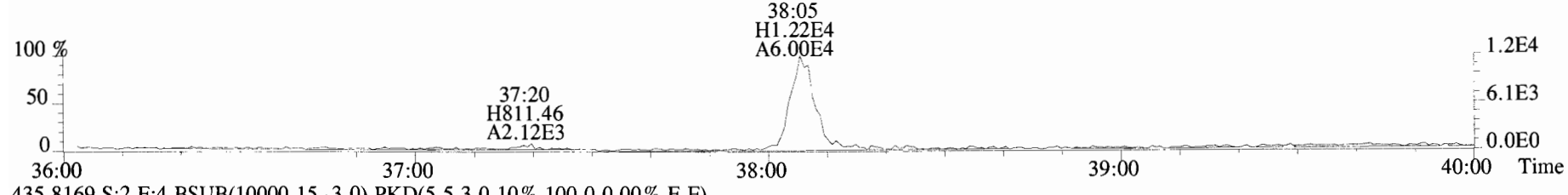
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
401.8559 S:2 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



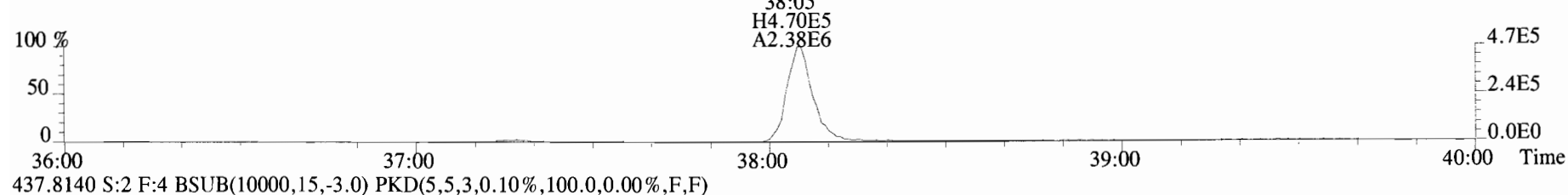
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



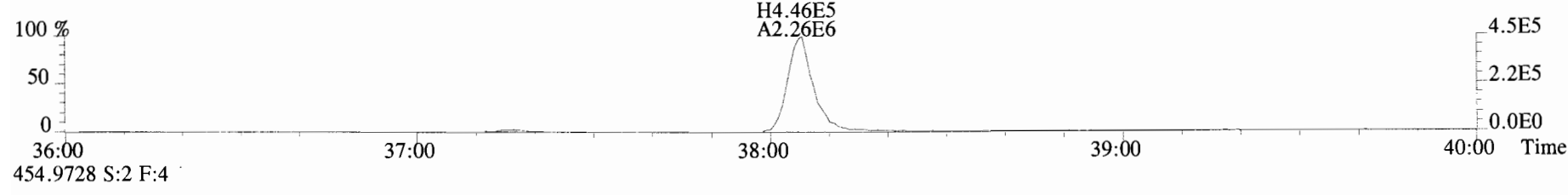
425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



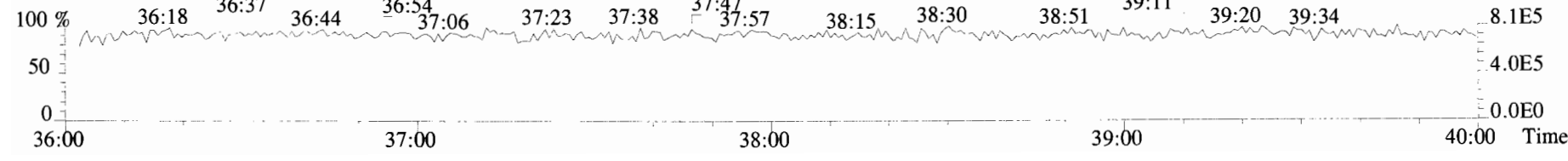
435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

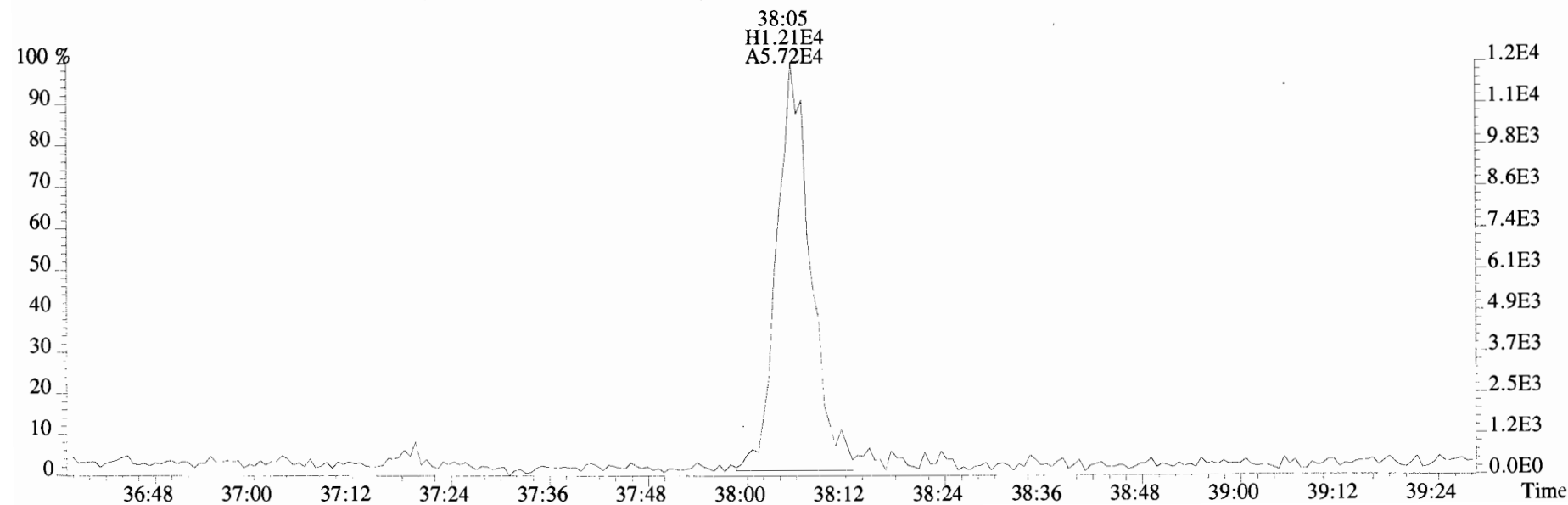
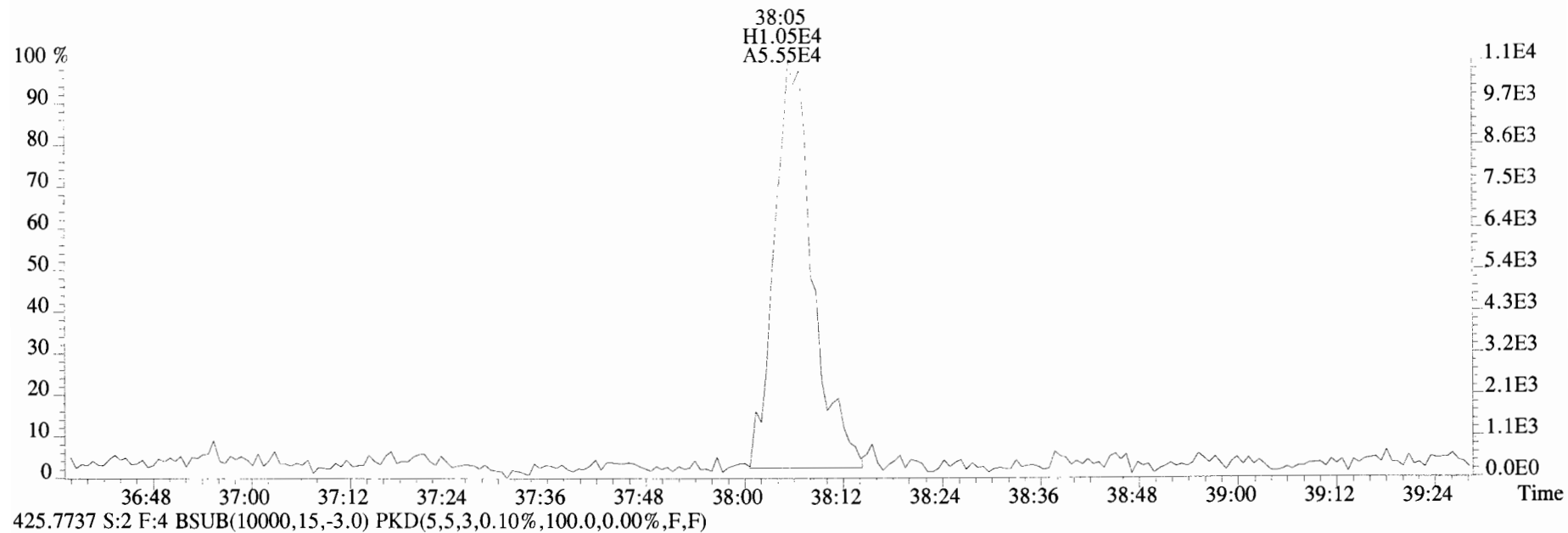


454.9728 S:2 F:4

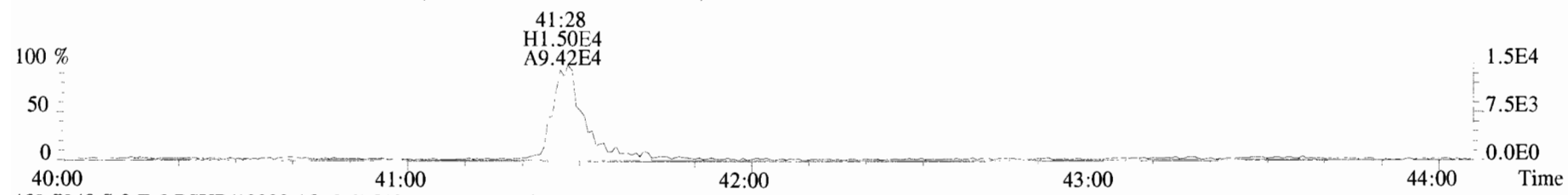




File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
423.7767 S:2 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



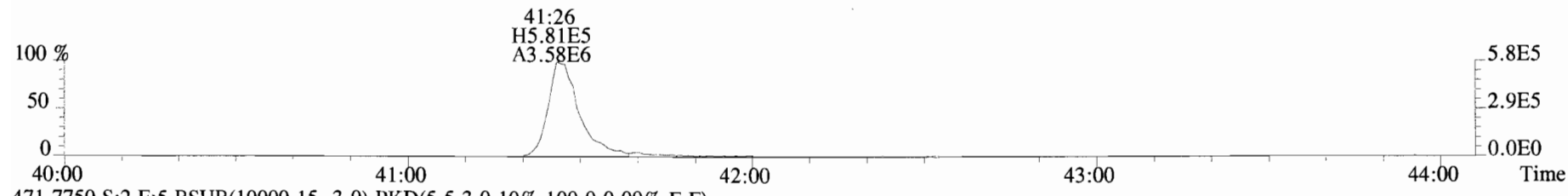
File:191009D1 #1-432 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



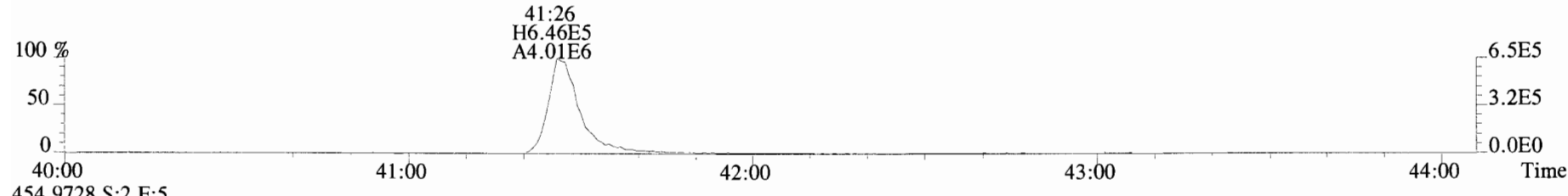
459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



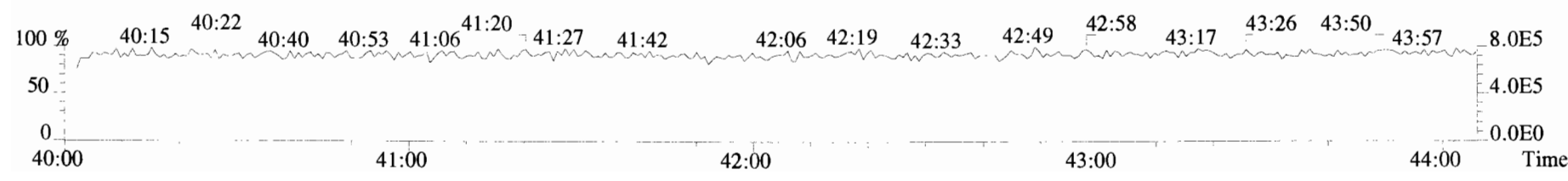
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



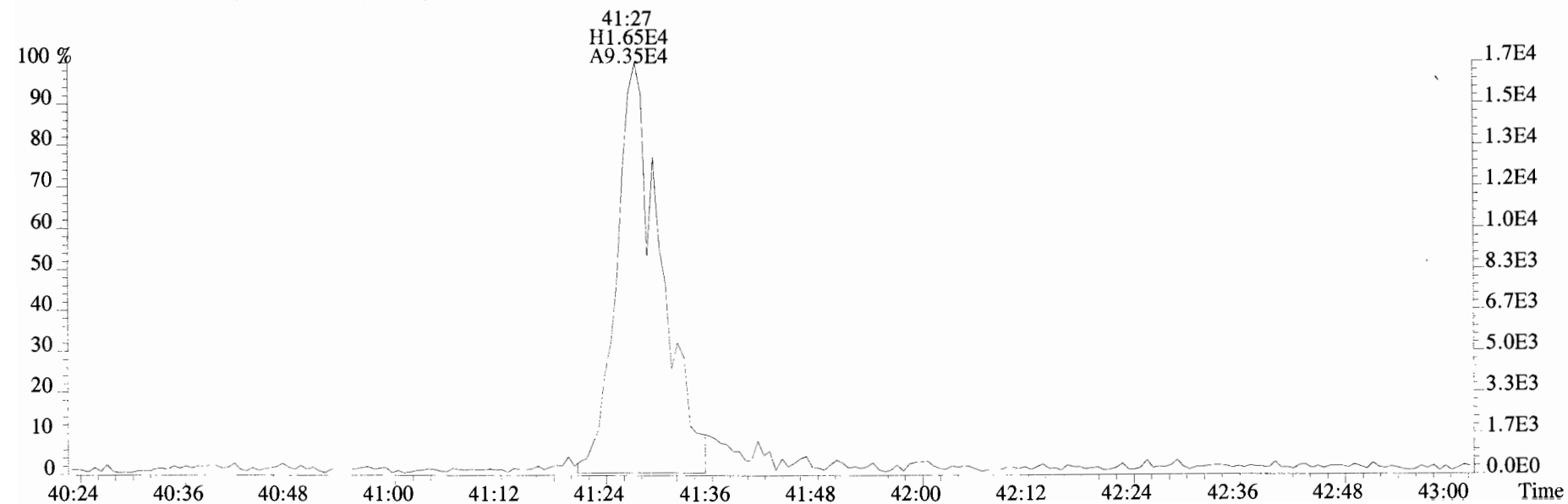
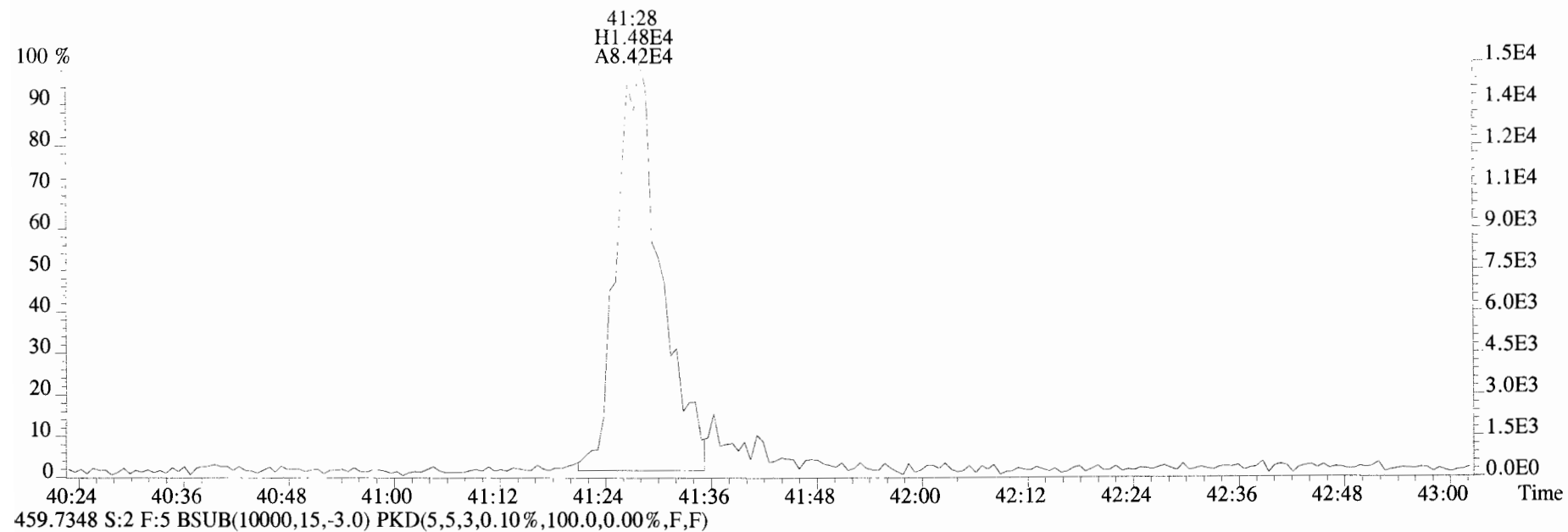
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



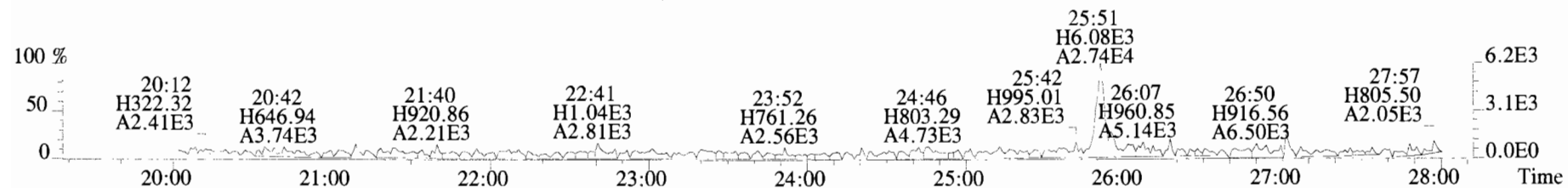
454.9728 S:2 F:5



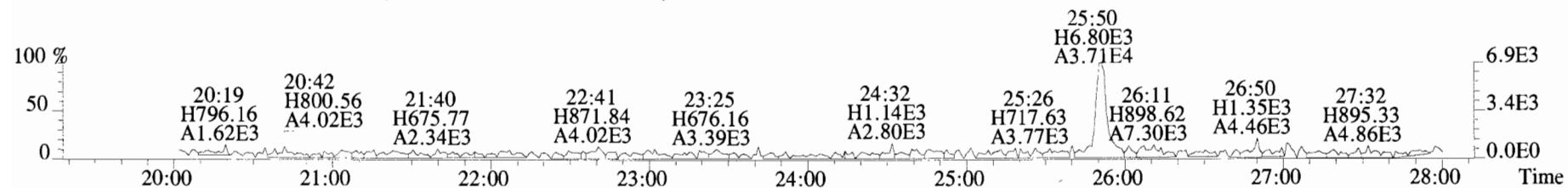
File:191009D1 #1-432 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



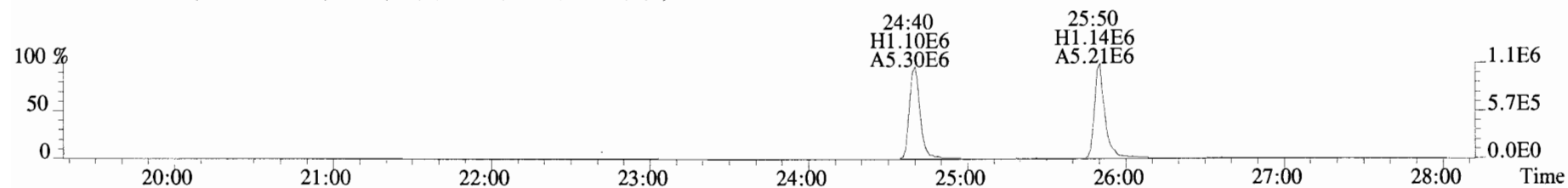
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



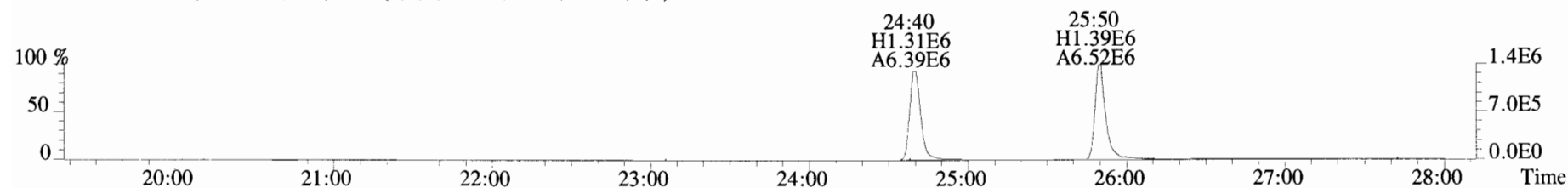
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



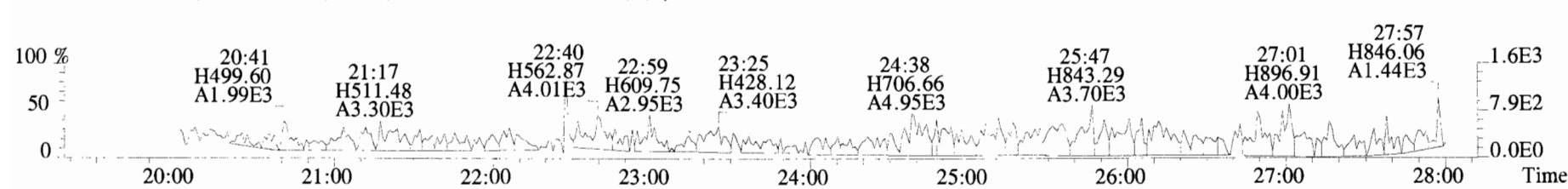
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



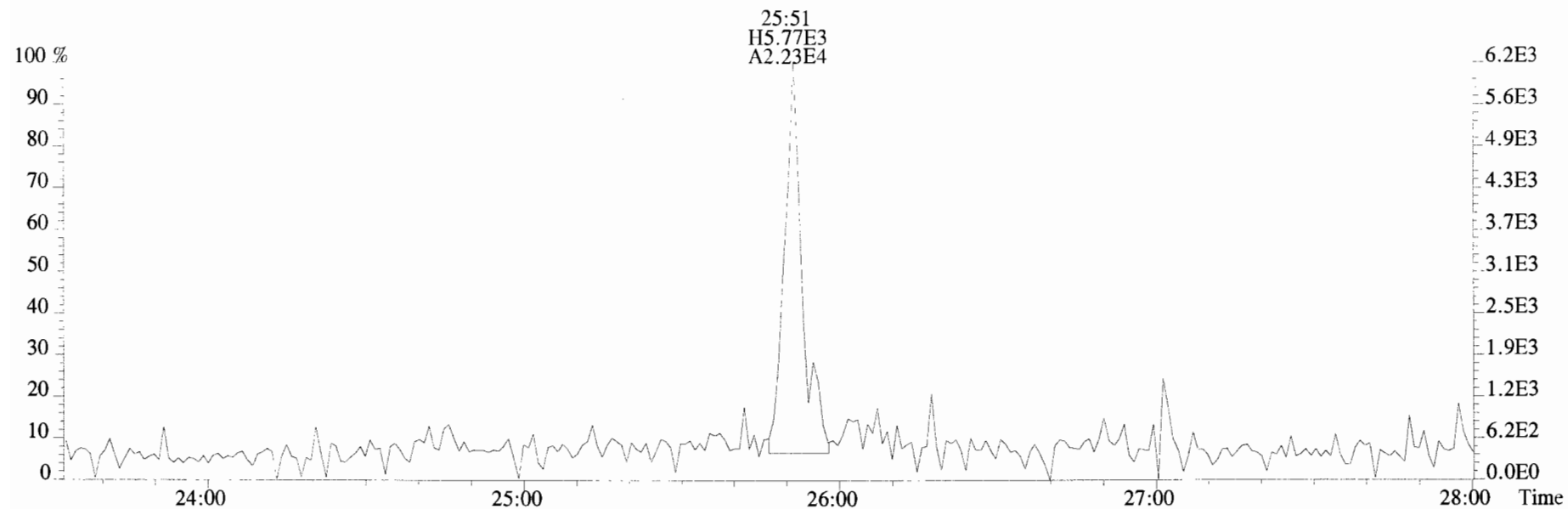
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



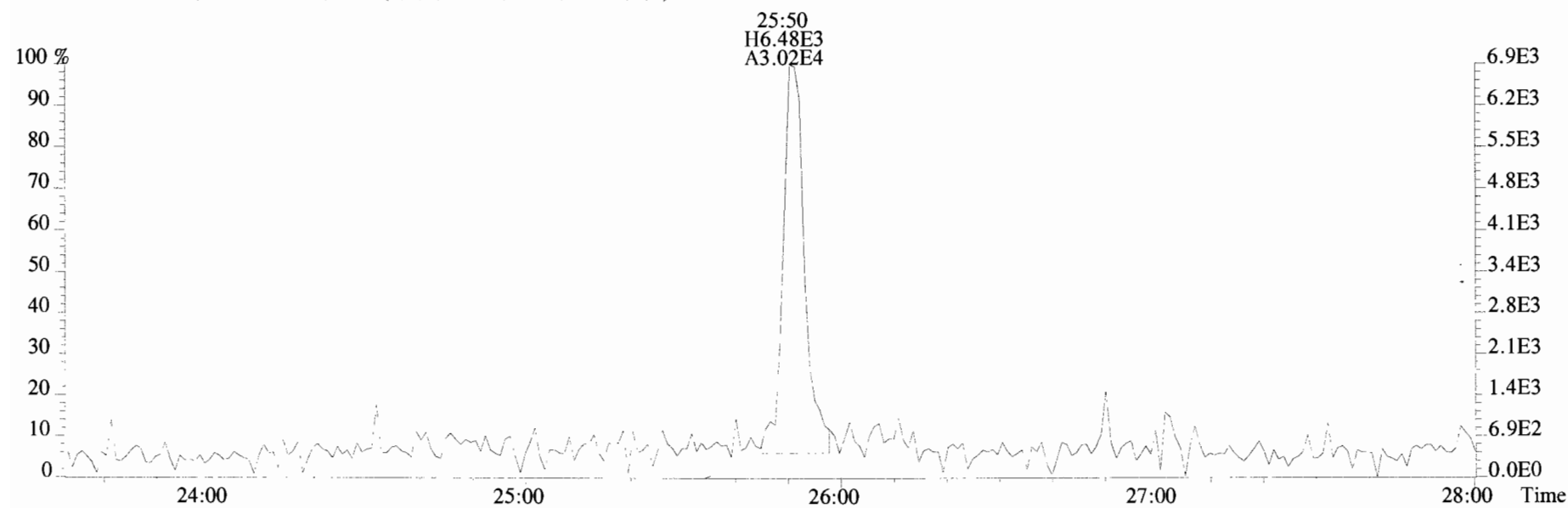
375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



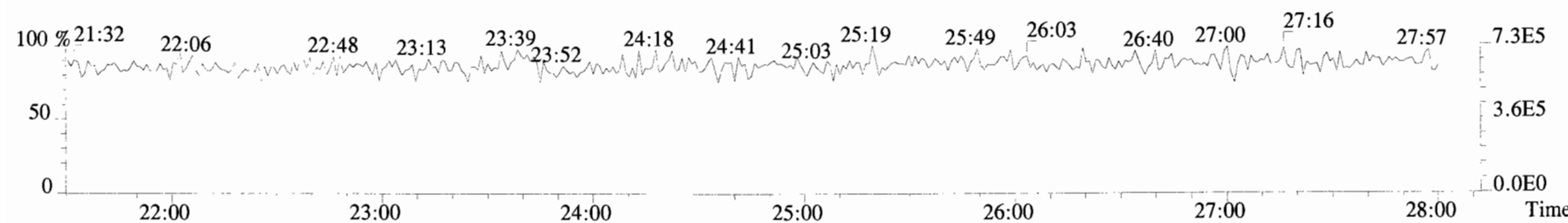
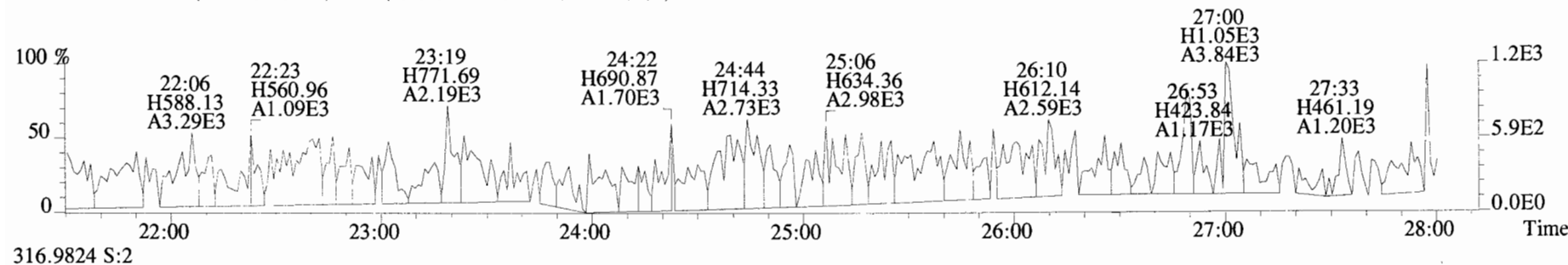
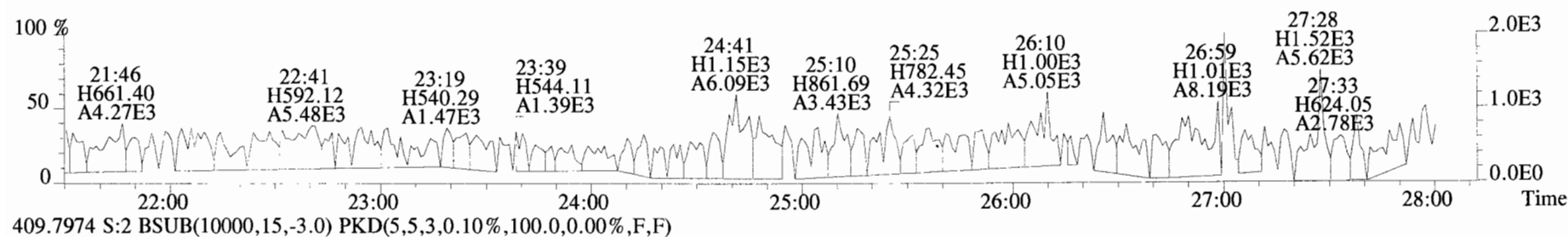
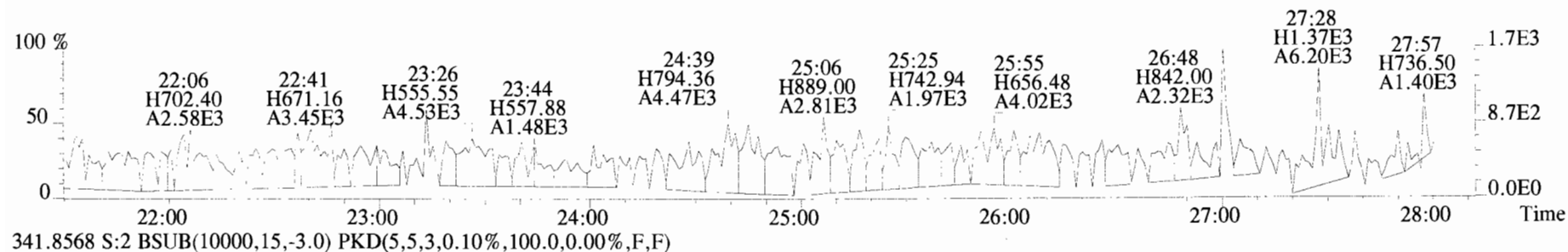
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



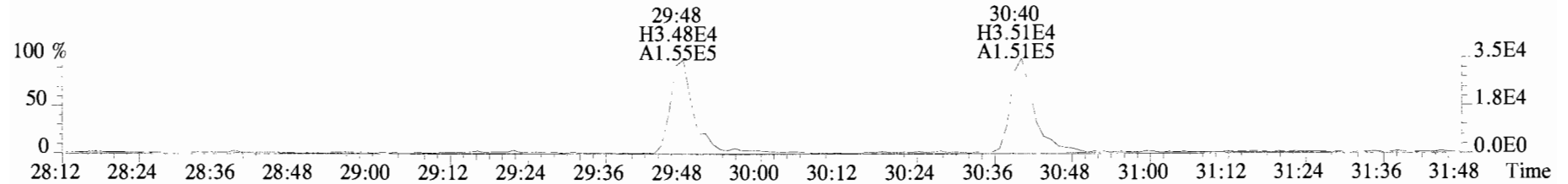
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



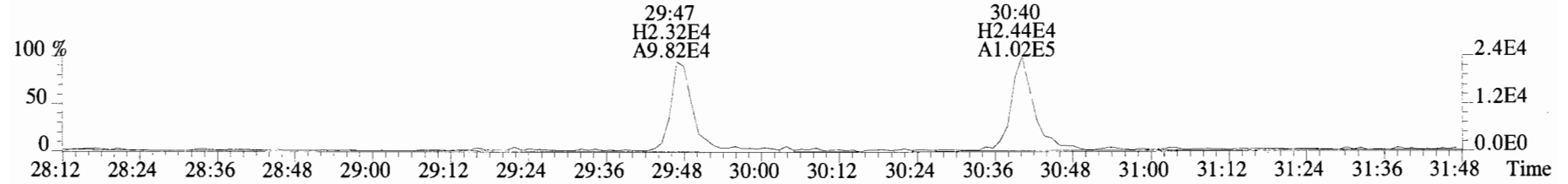
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
 339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



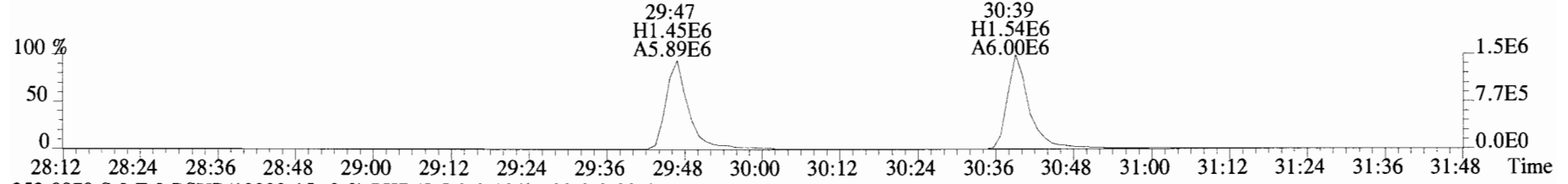
File:191009D1 #1-211 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



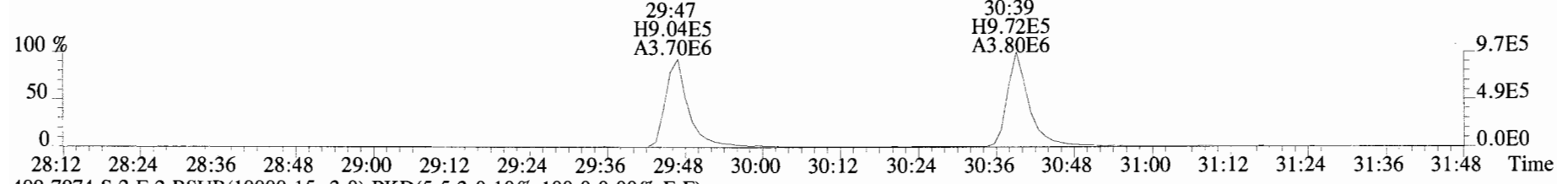
341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



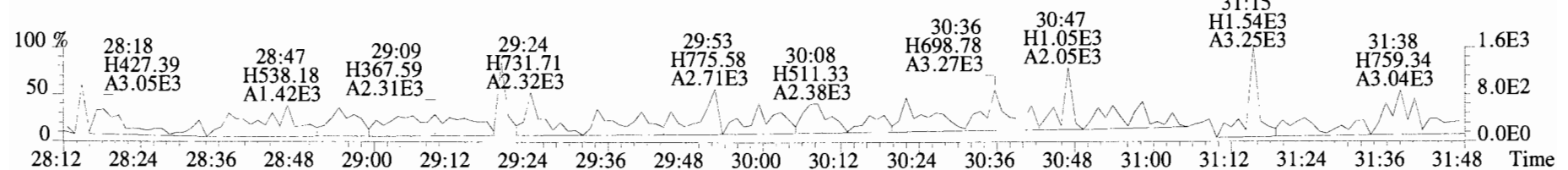
351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



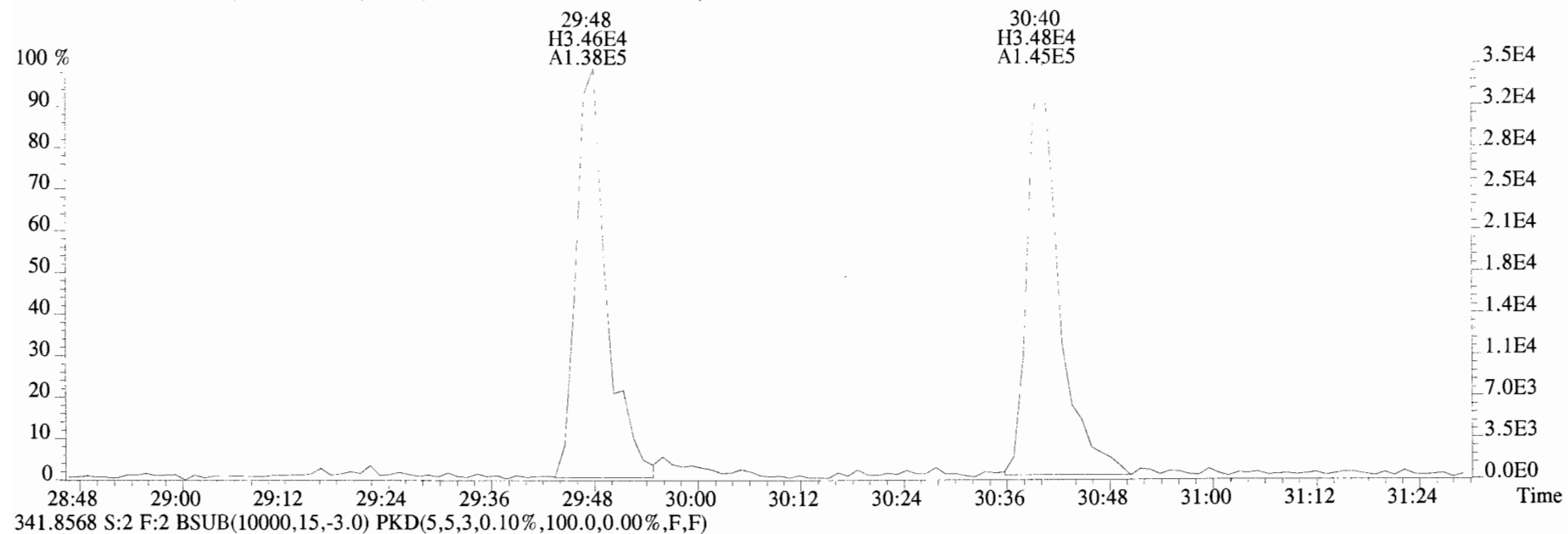
353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



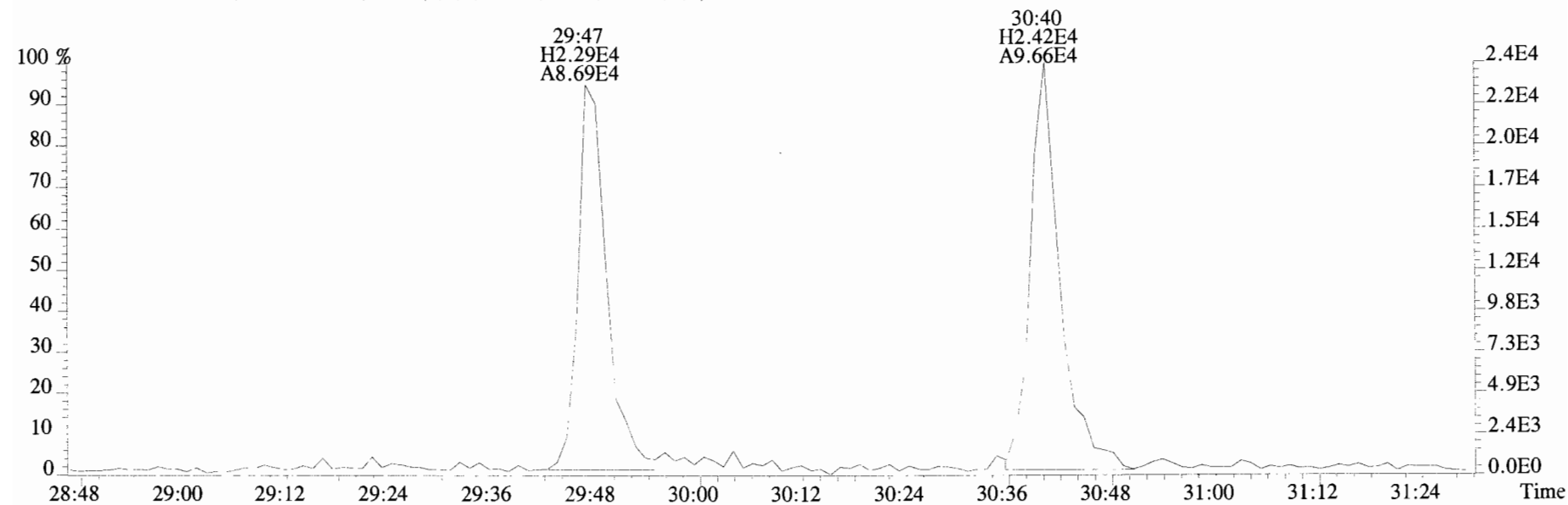
409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191009D1 #1-211 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

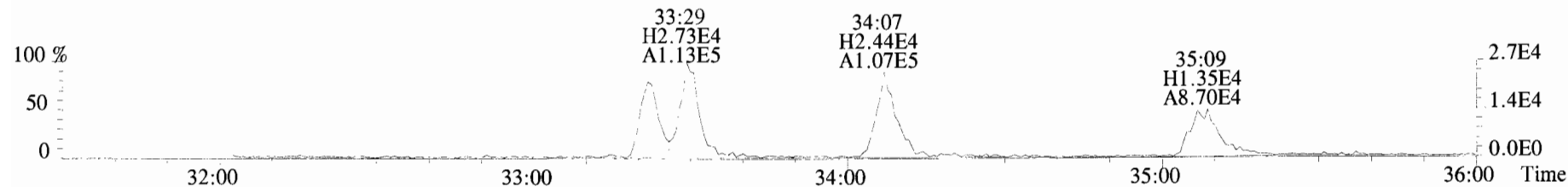


341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

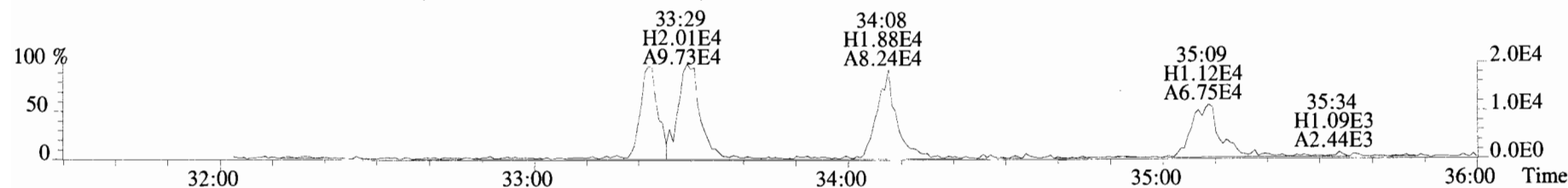




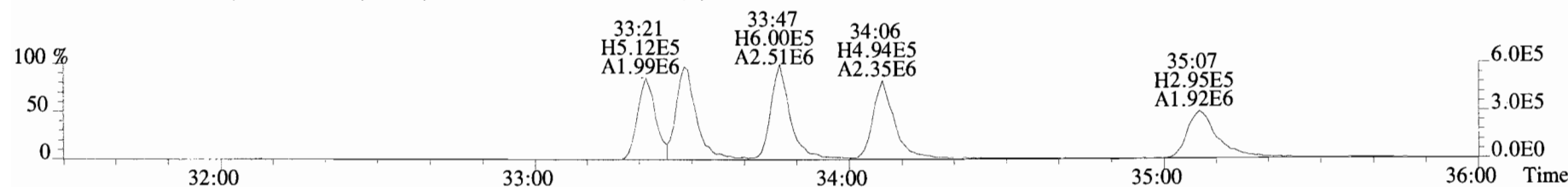
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
 373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



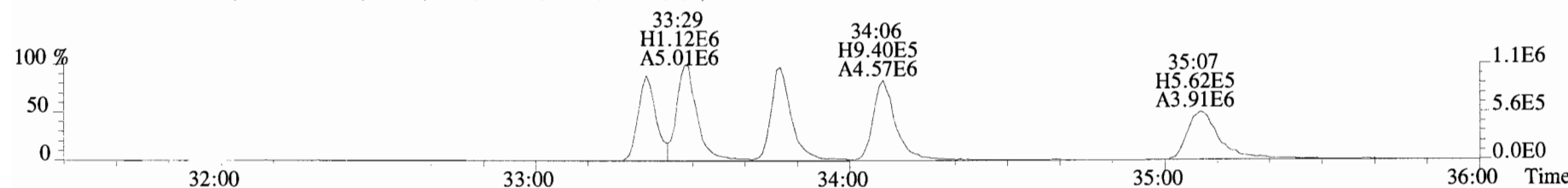
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



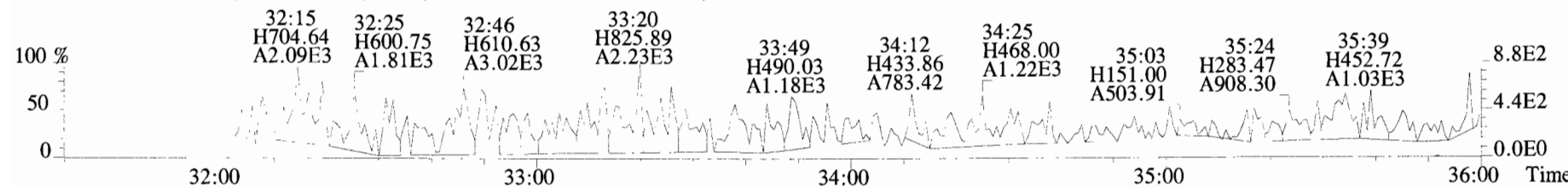
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



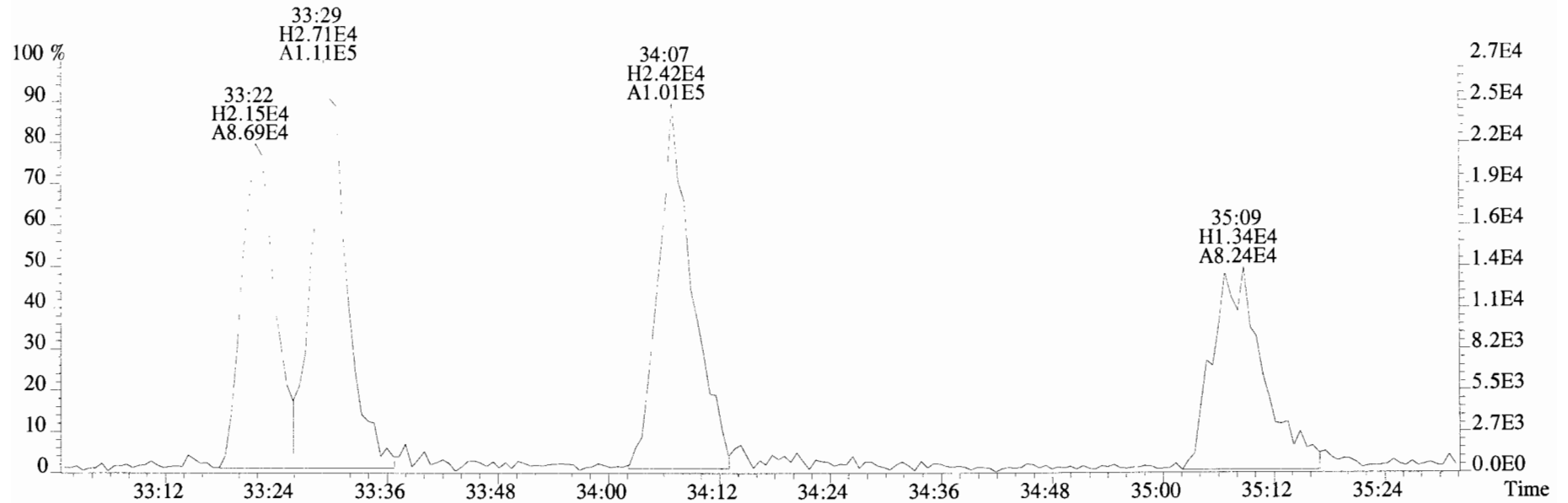
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



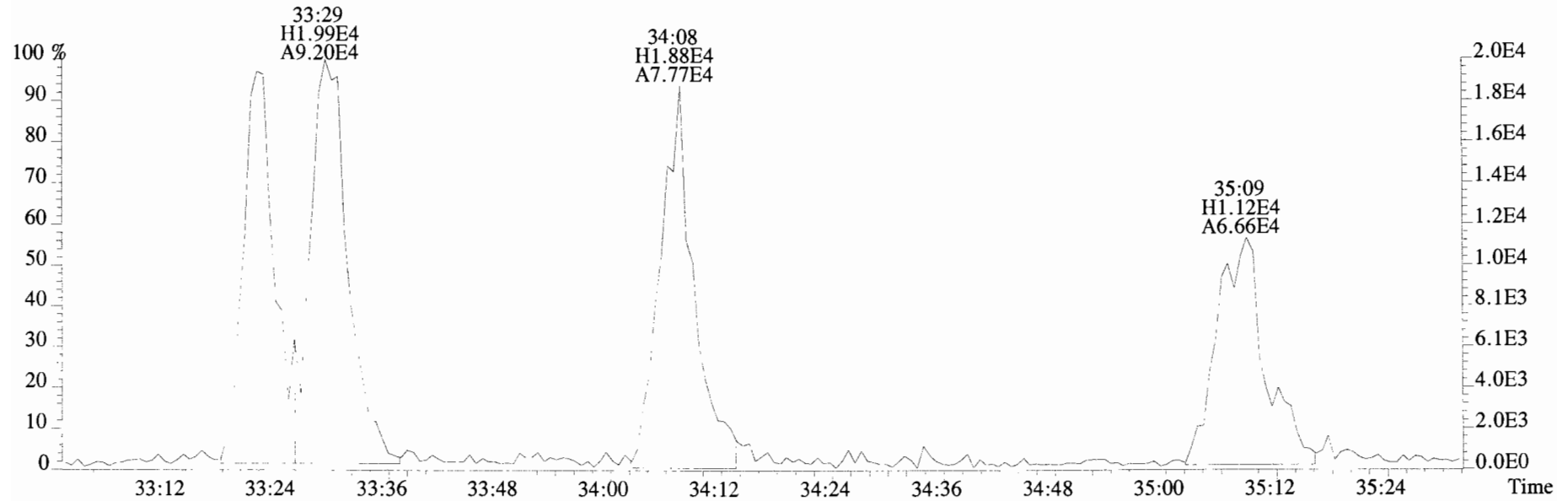
445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



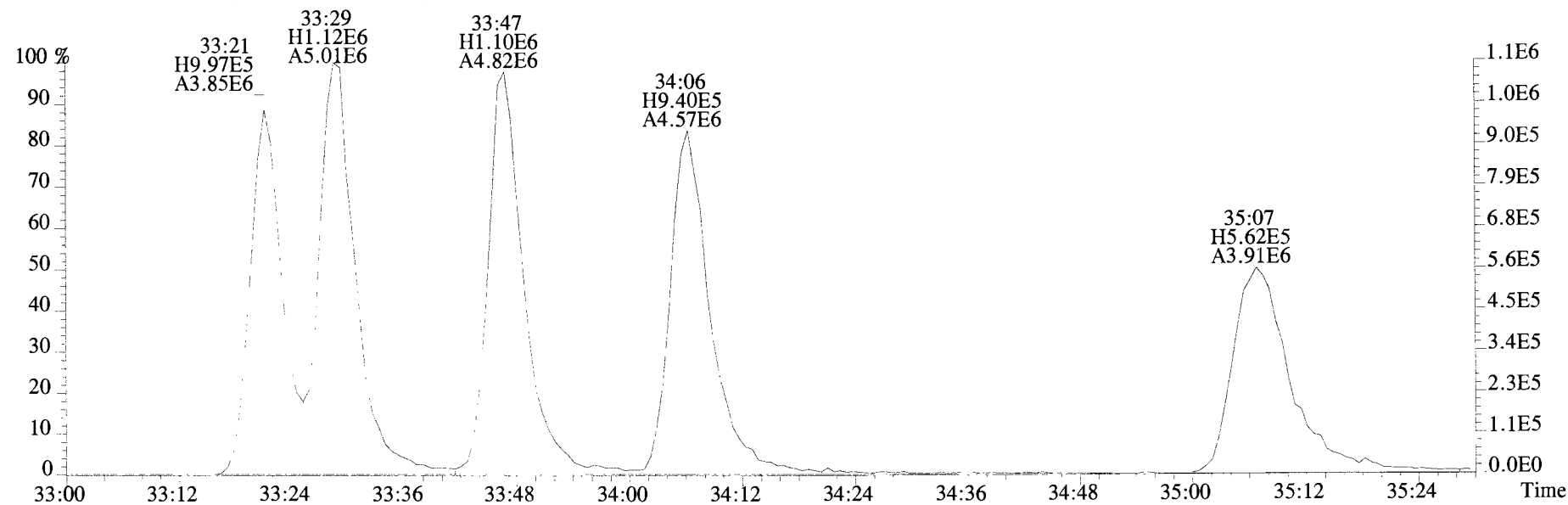
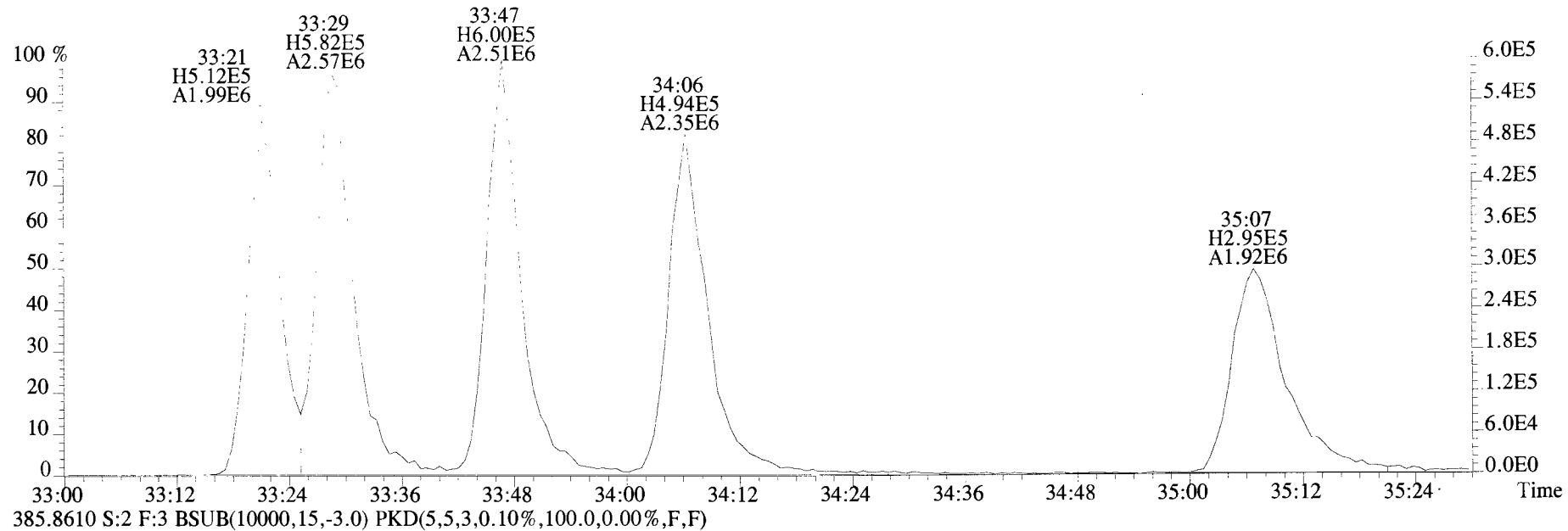
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



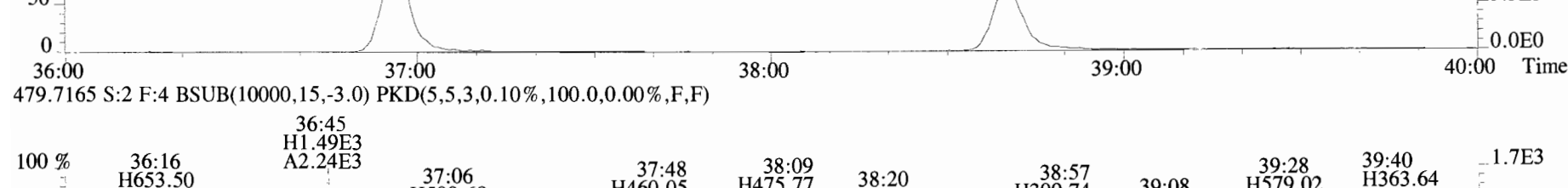
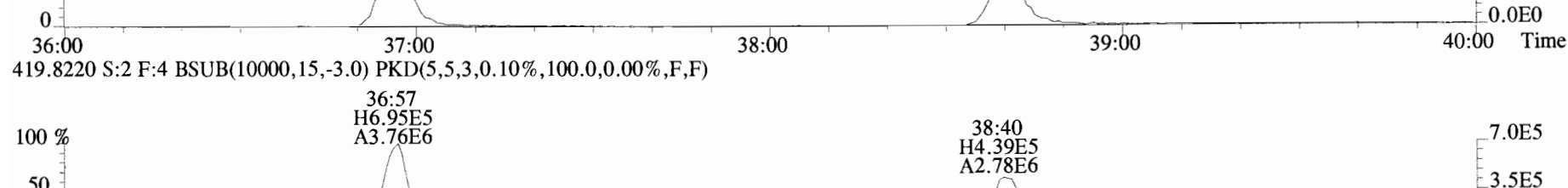
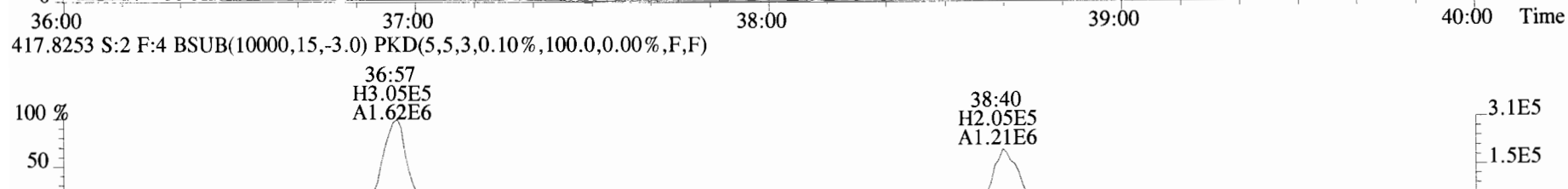
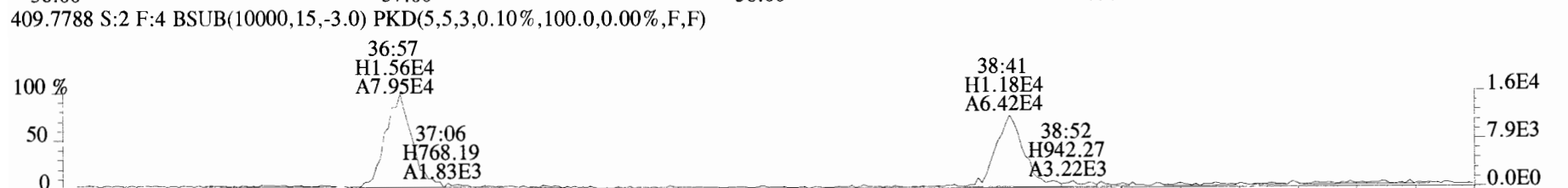
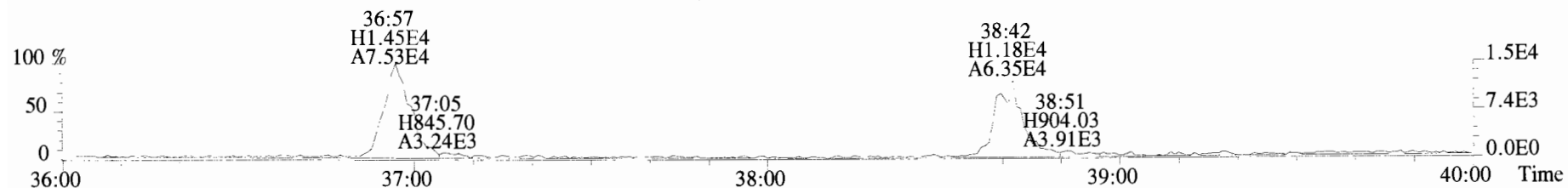
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



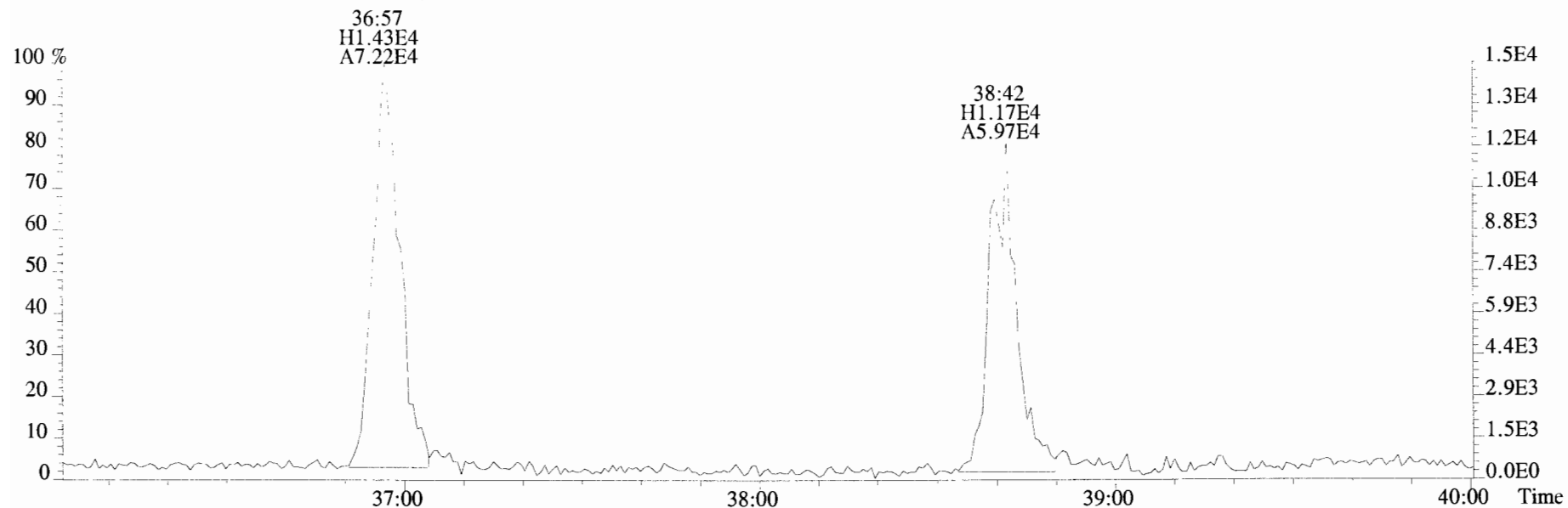
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



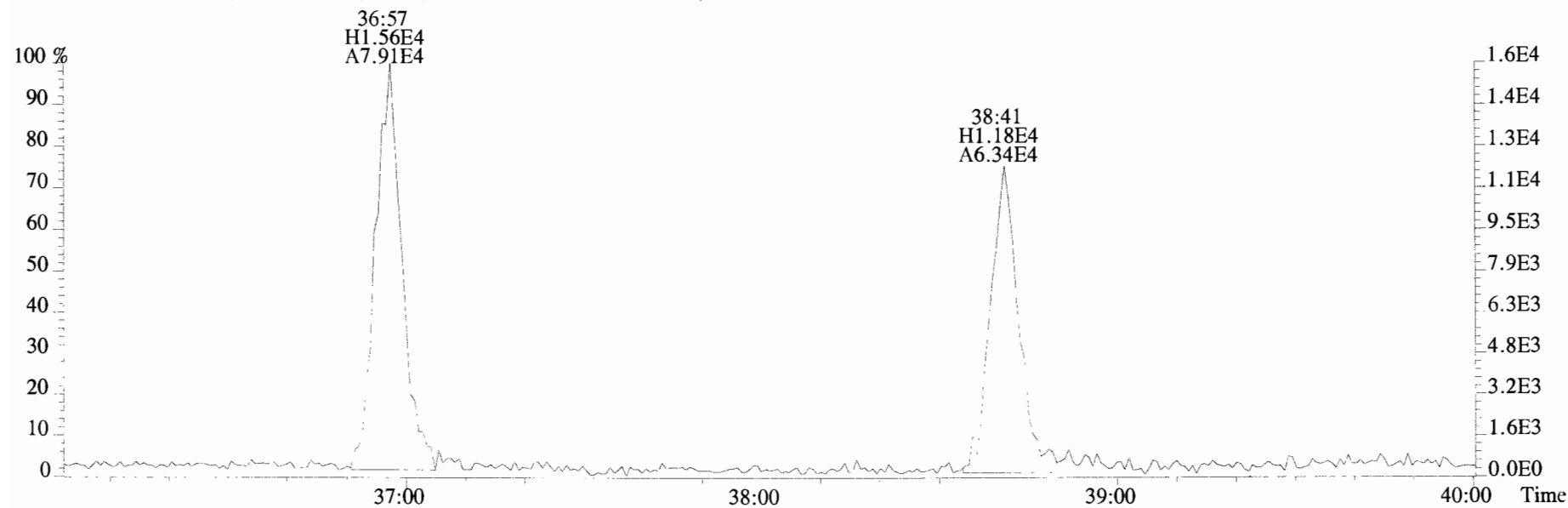
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



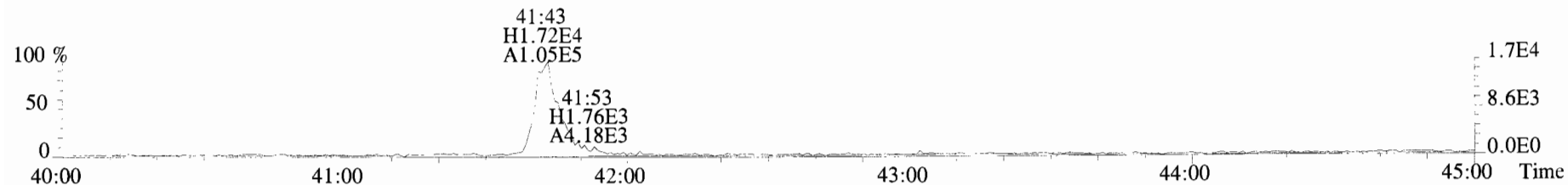
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



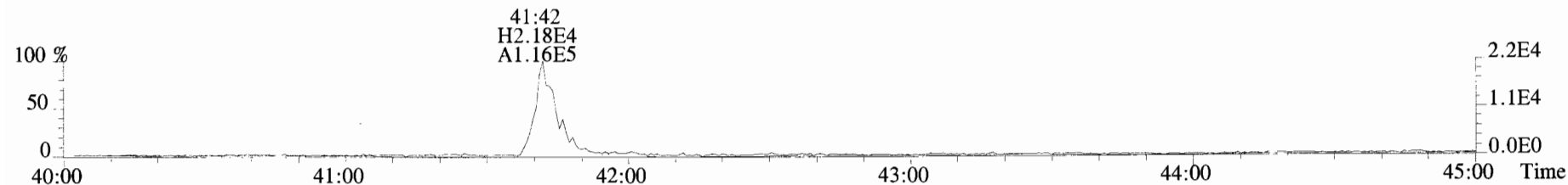
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



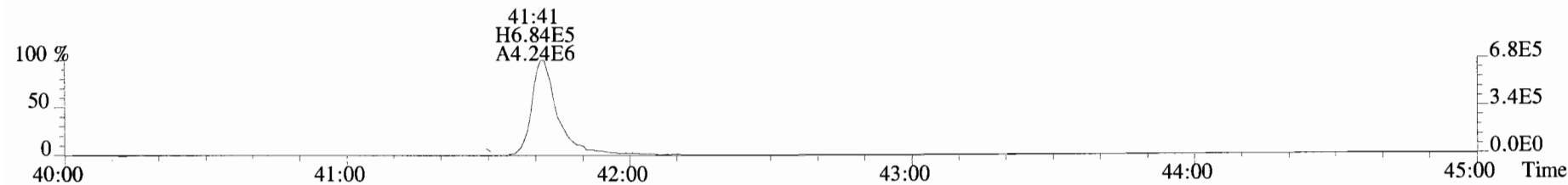
File:191009D1 #1-432 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
 441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



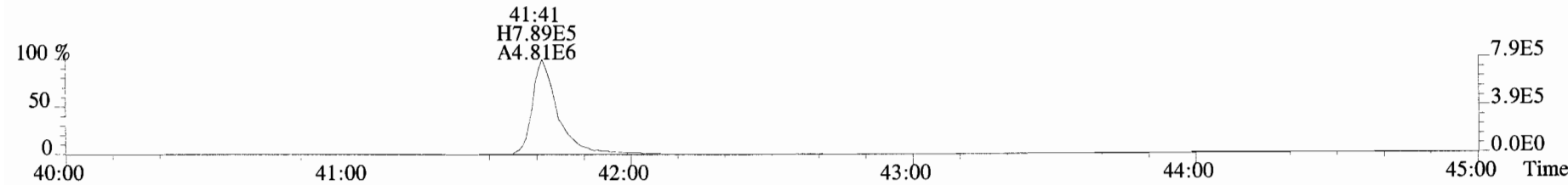
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



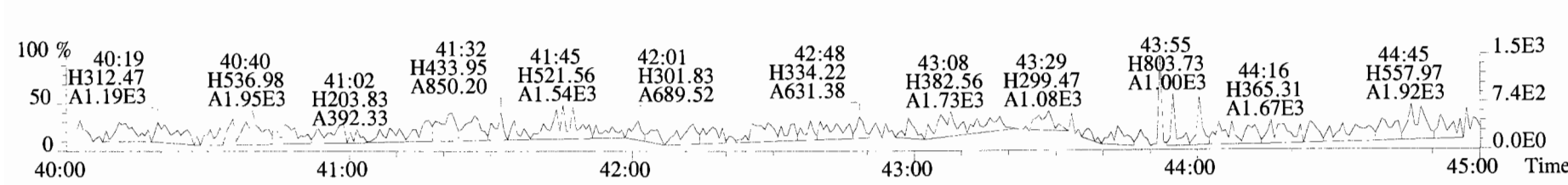
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



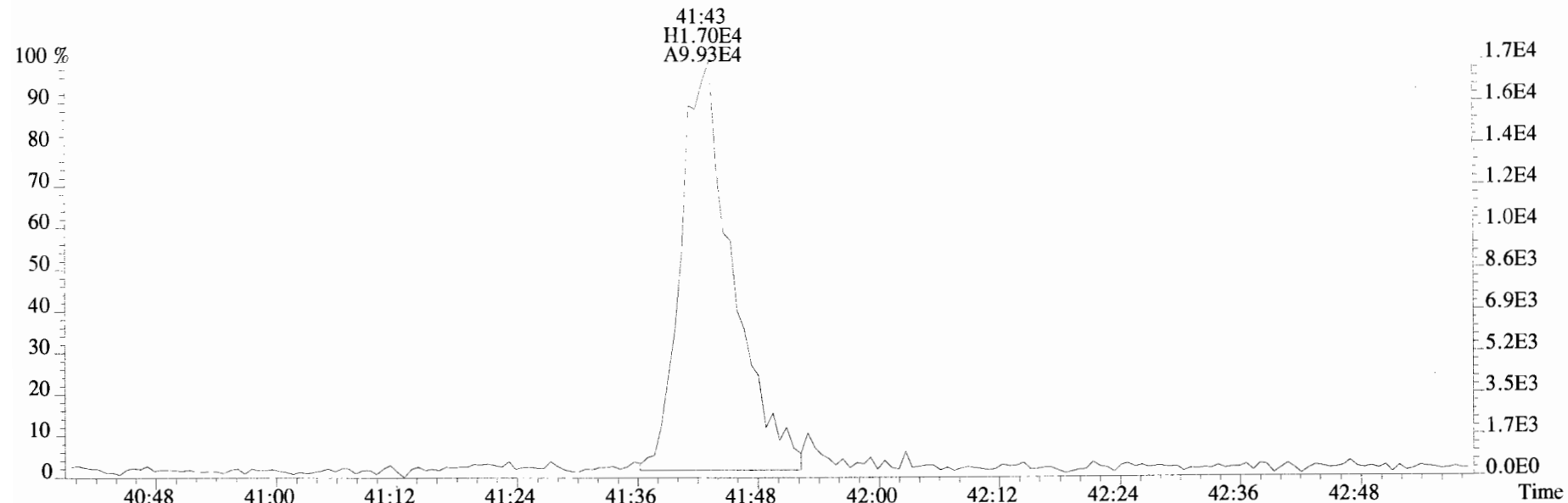
455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



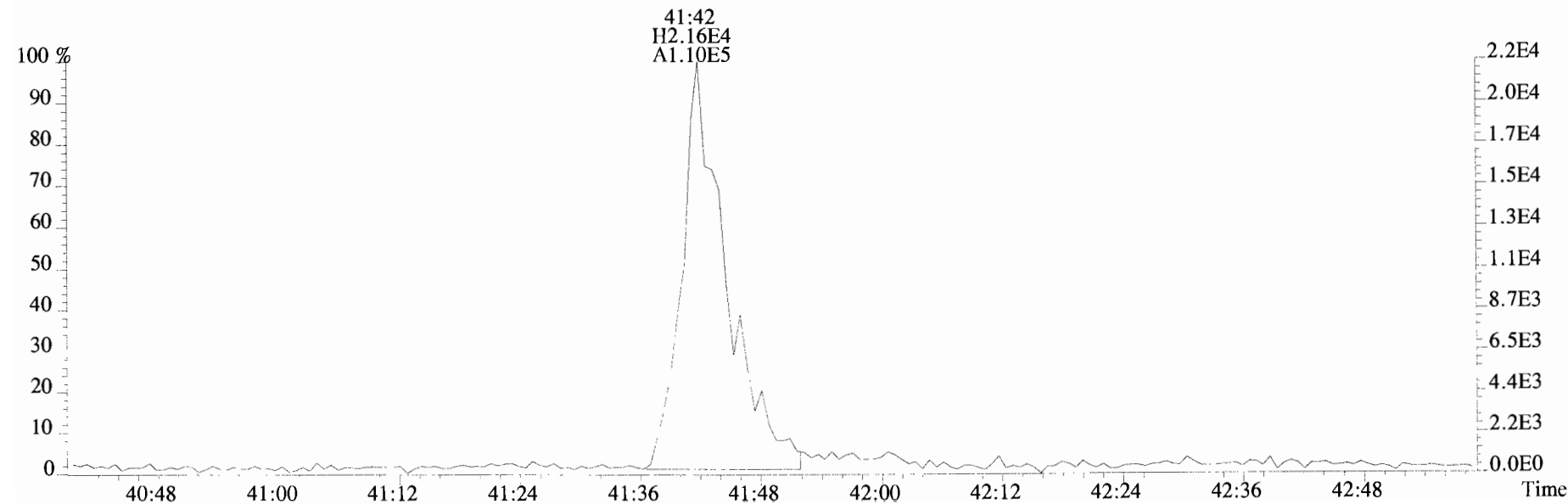
513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



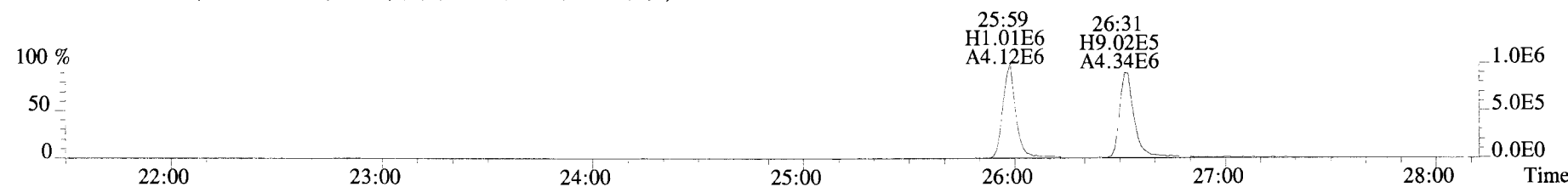
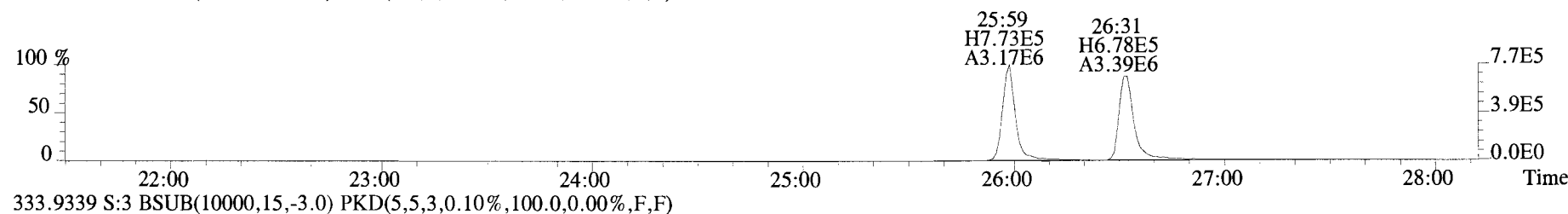
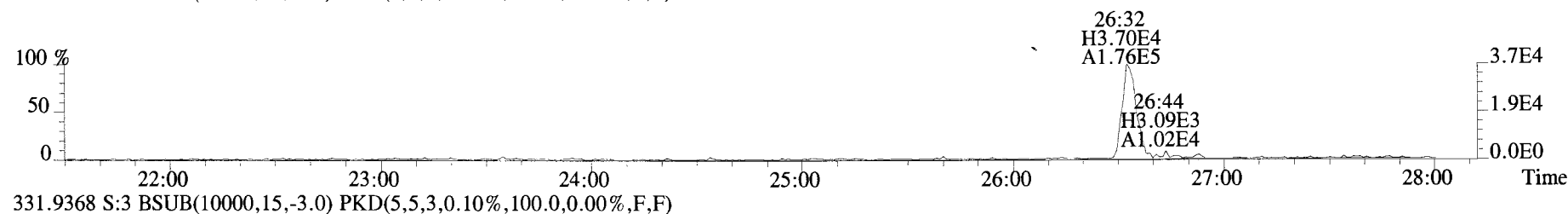
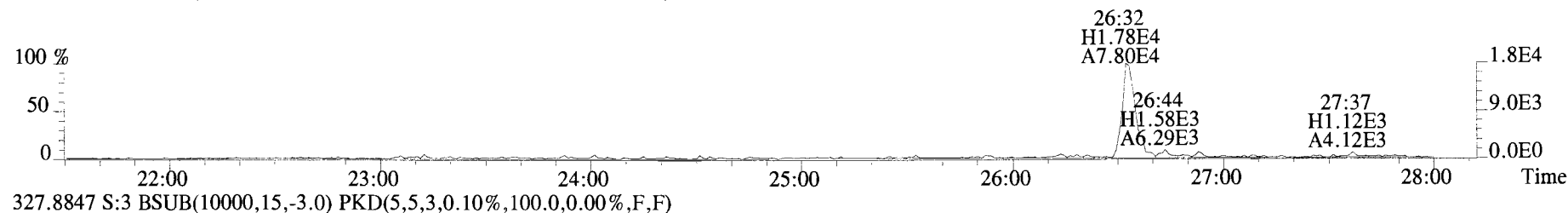
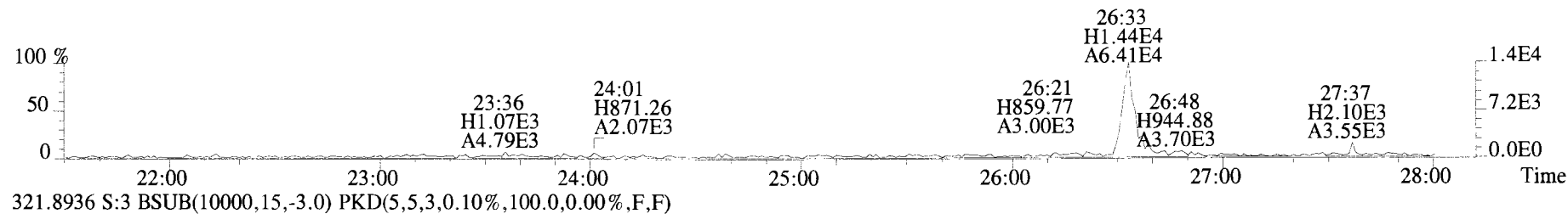
File:191009D1 #1-432 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

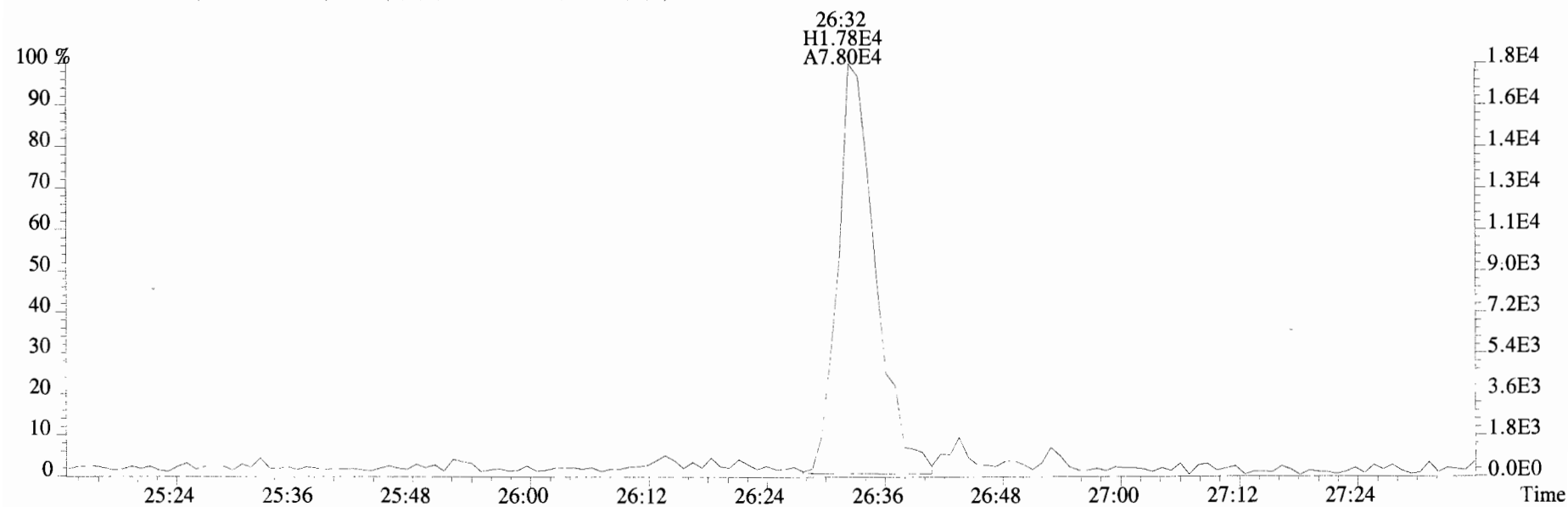
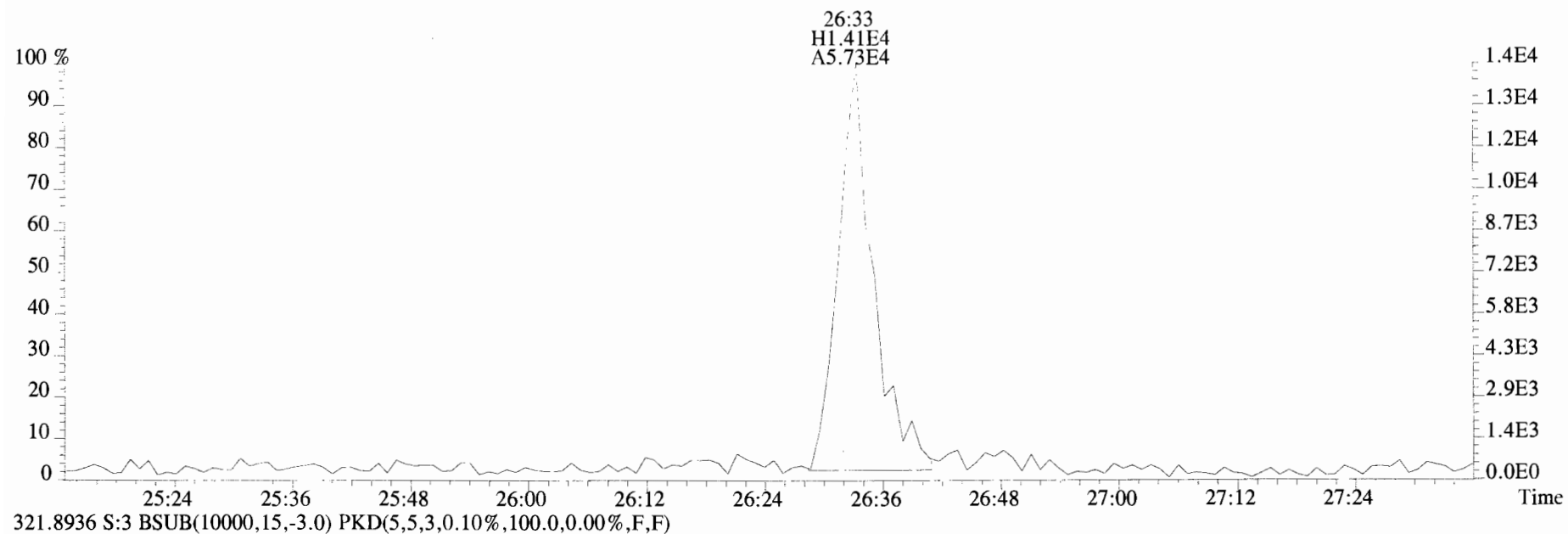


File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

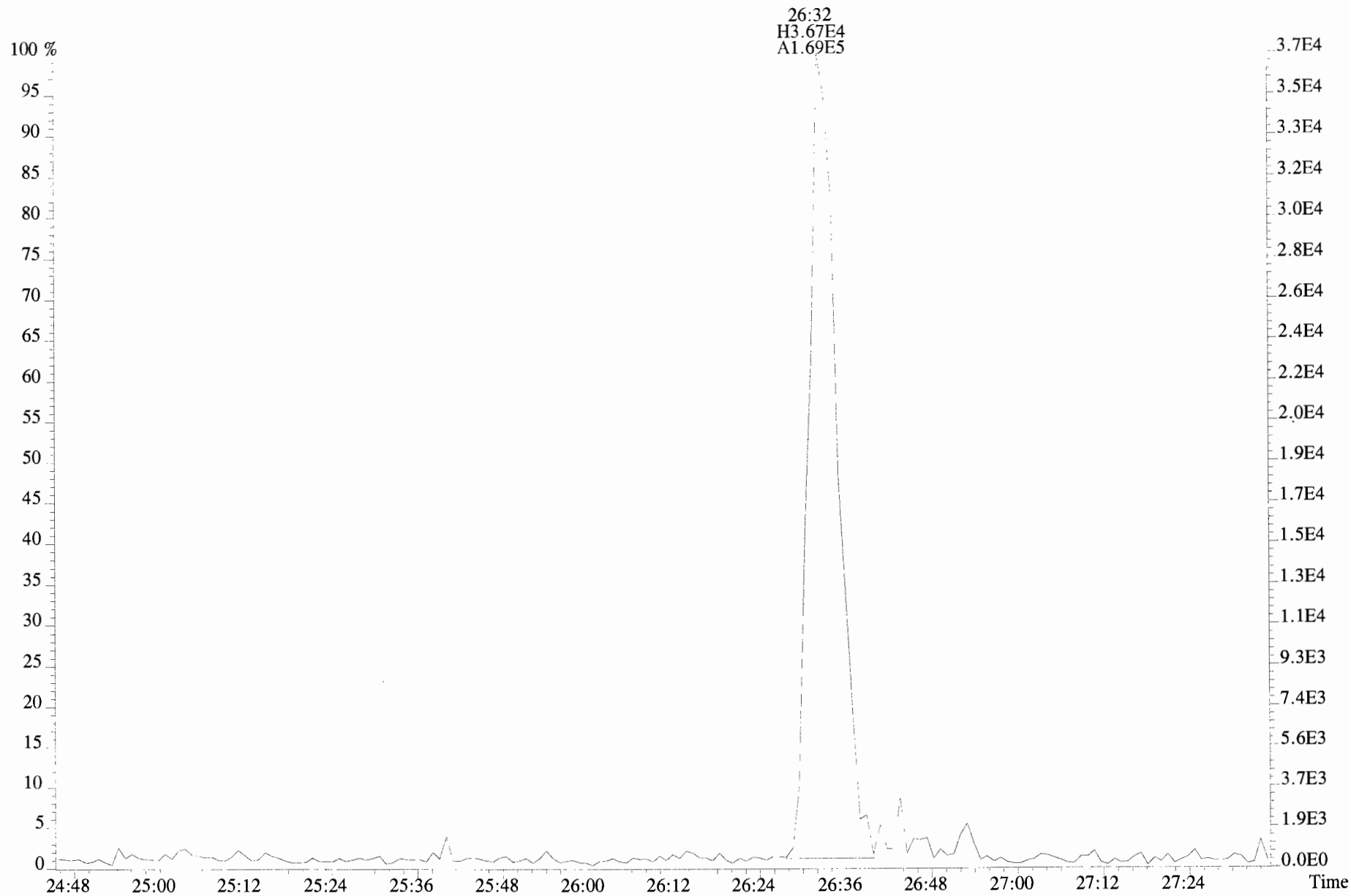




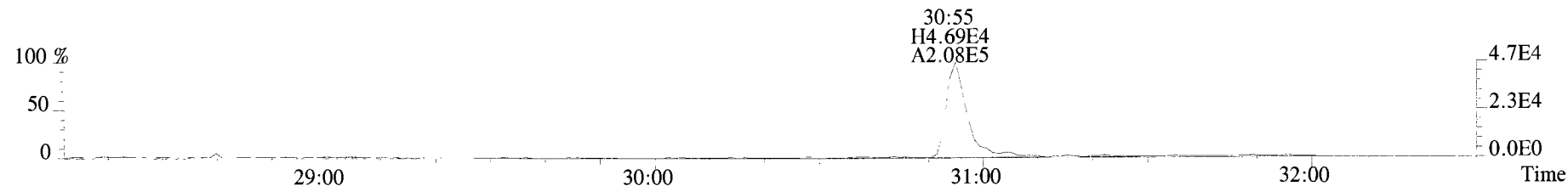
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



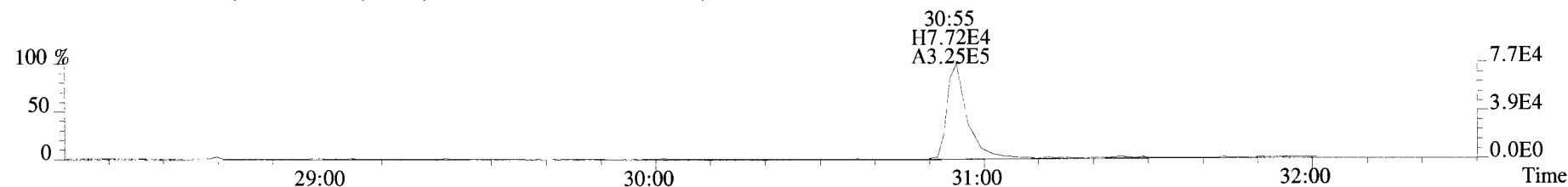
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
327.8847 S:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



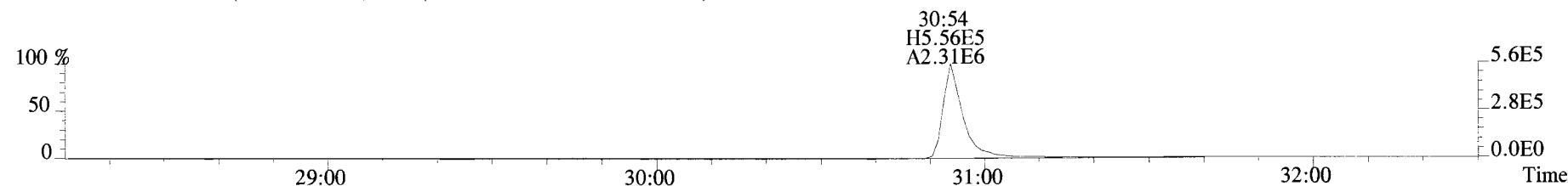
File:191009D1 #1-211 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
353.8576 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



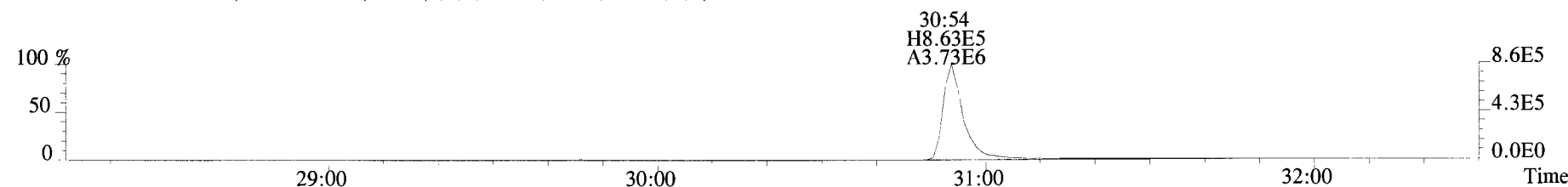
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



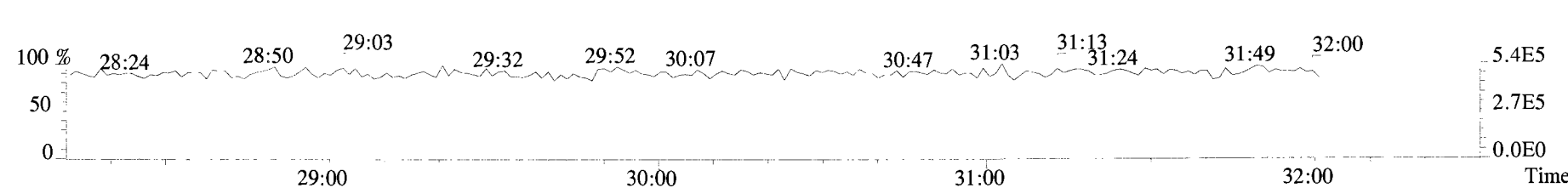
365.8978 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



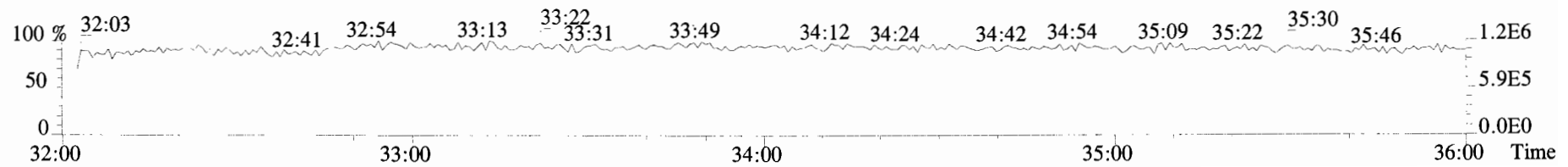
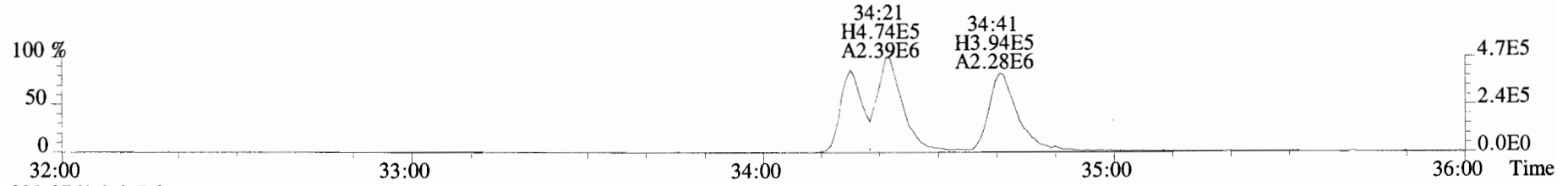
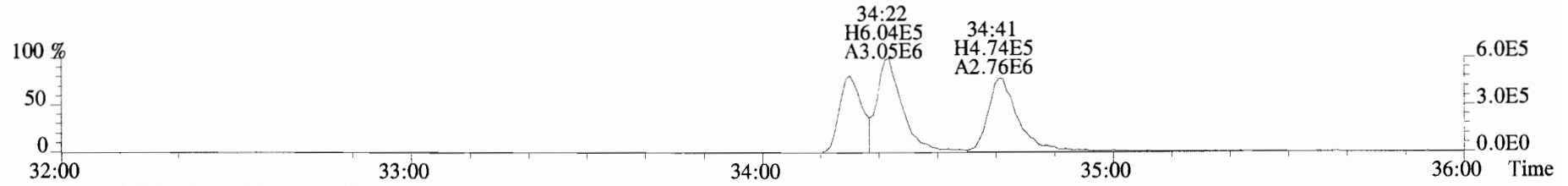
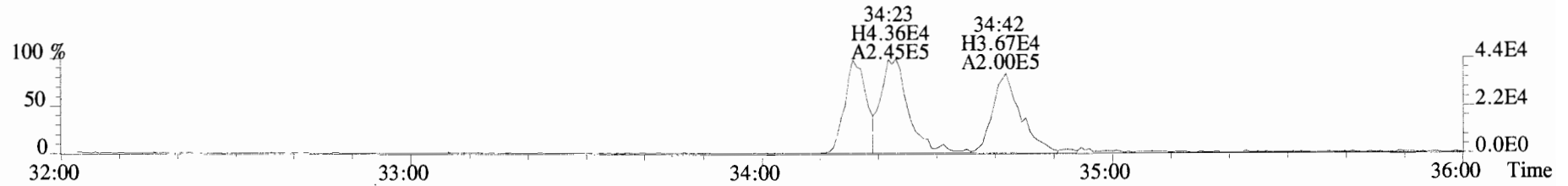
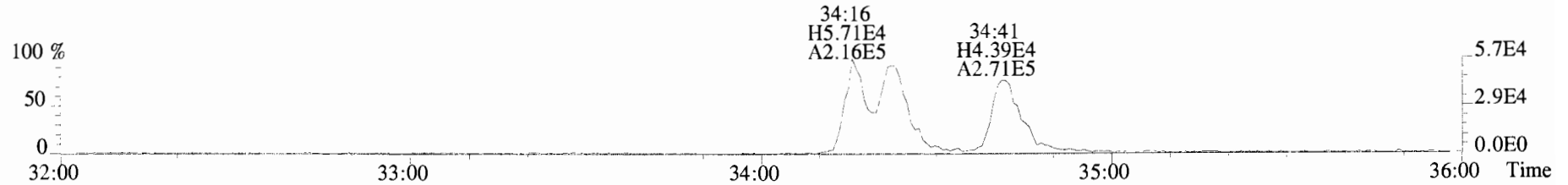
367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



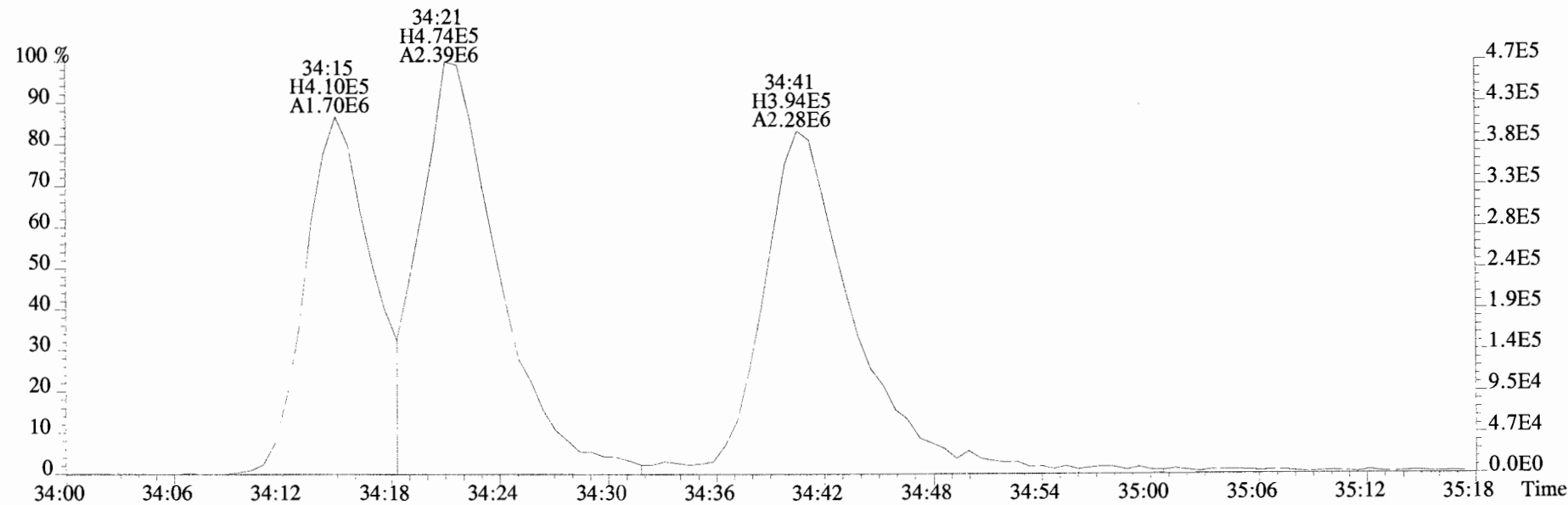
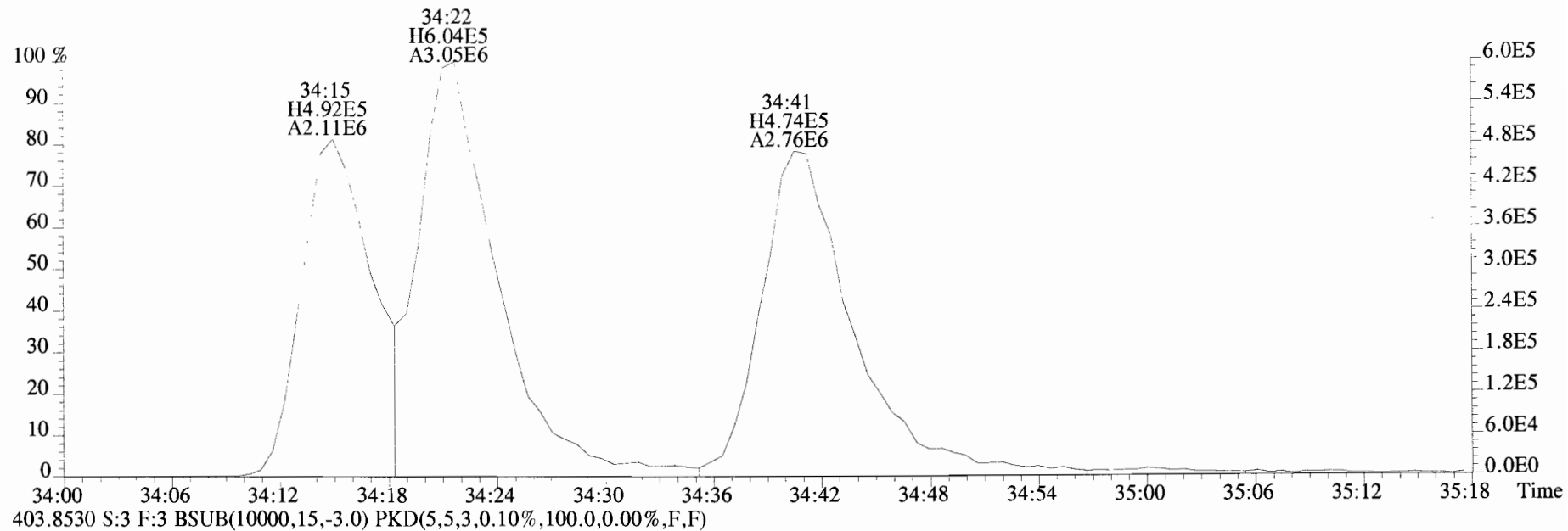
366.9792 S:3 F:2



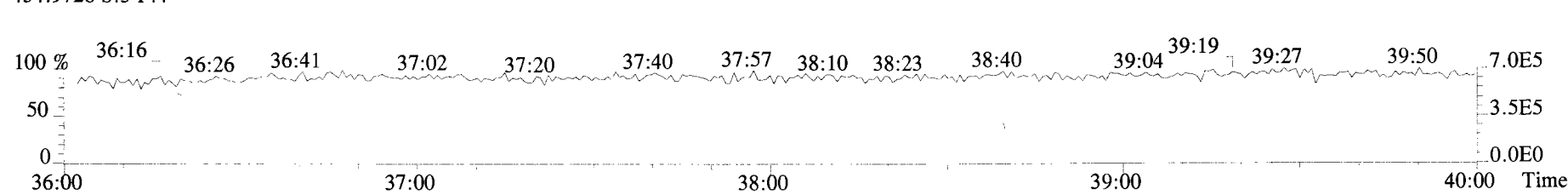
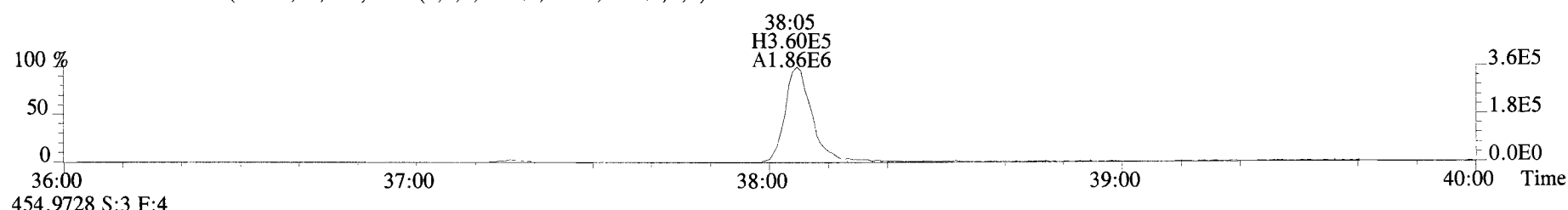
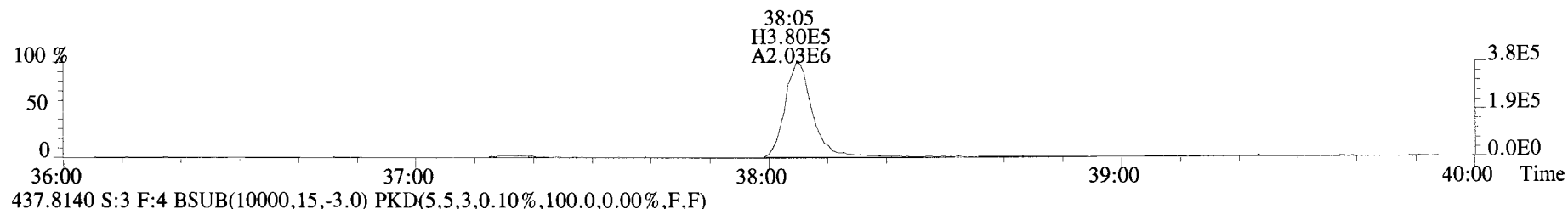
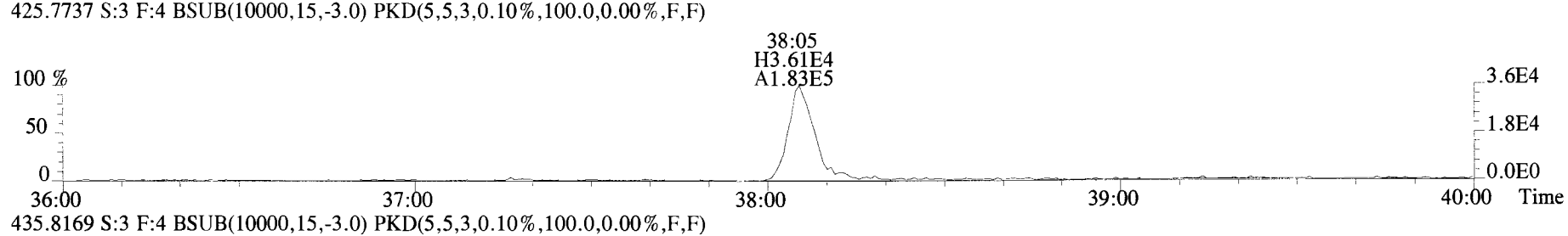
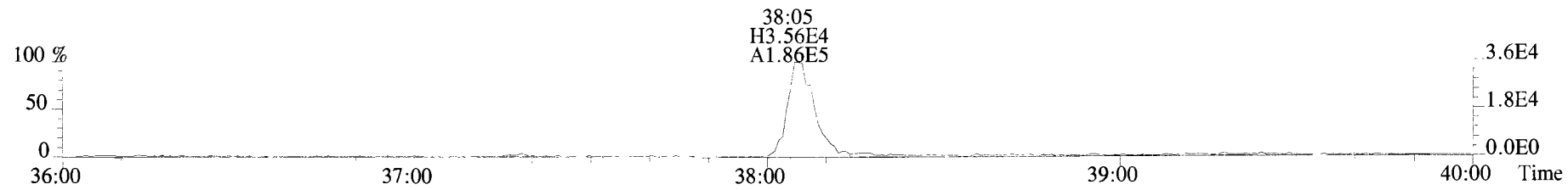
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



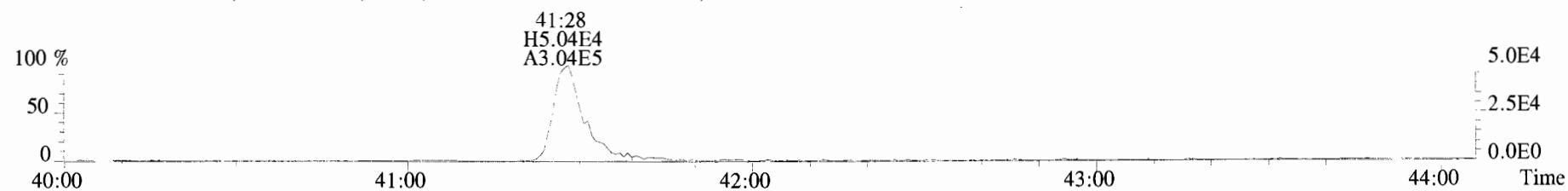
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



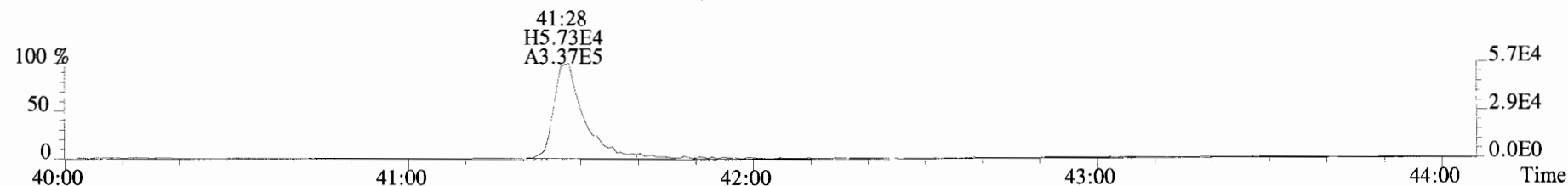
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



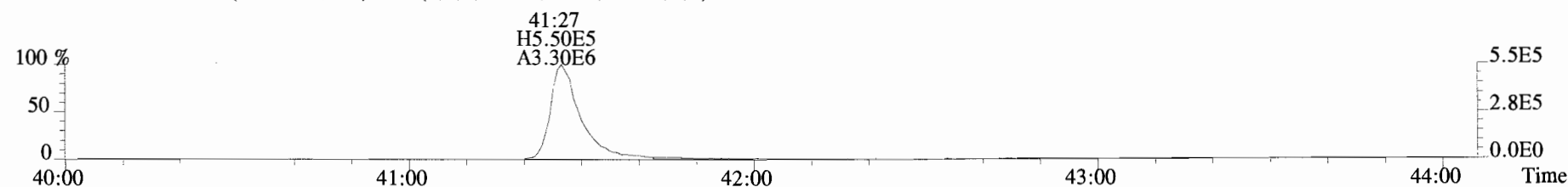
File:191009D1 #1-432 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



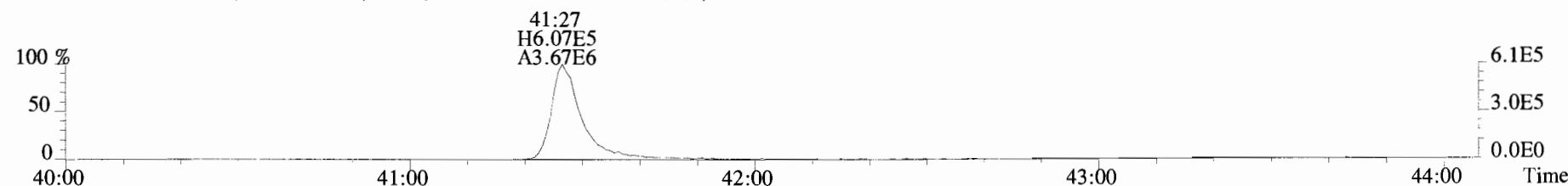
459.7348 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



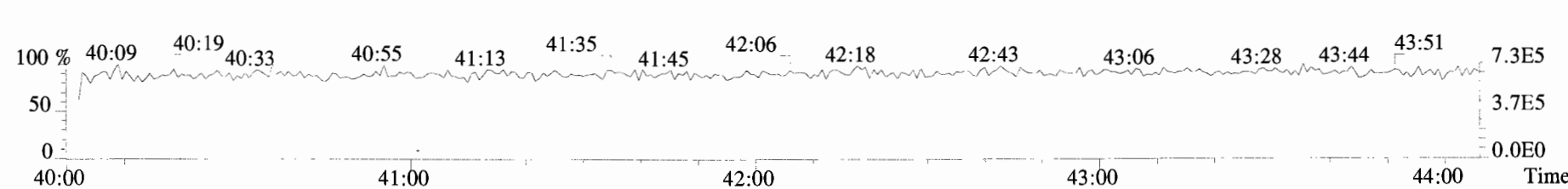
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



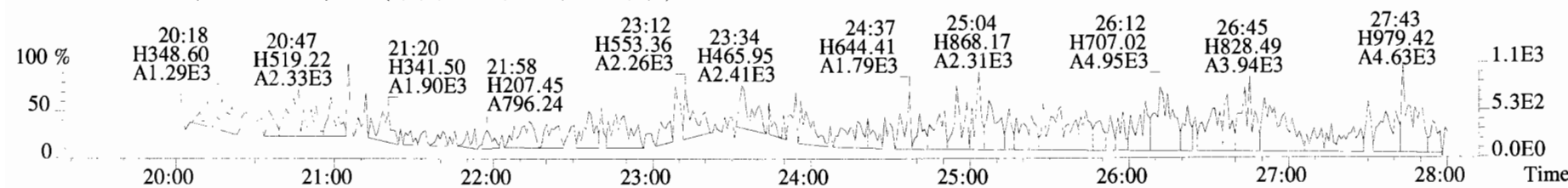
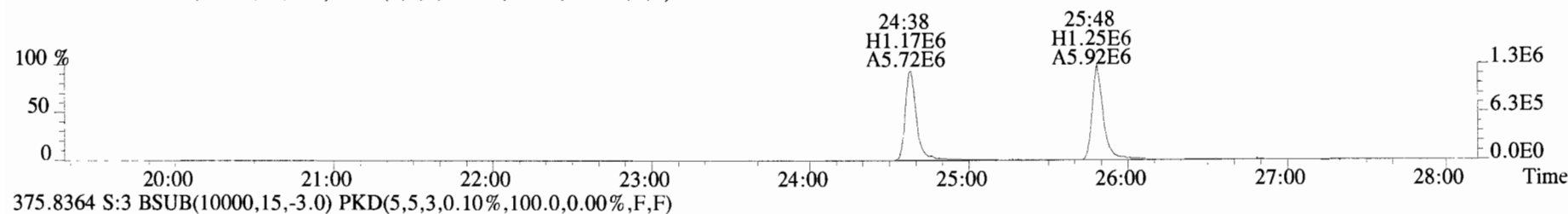
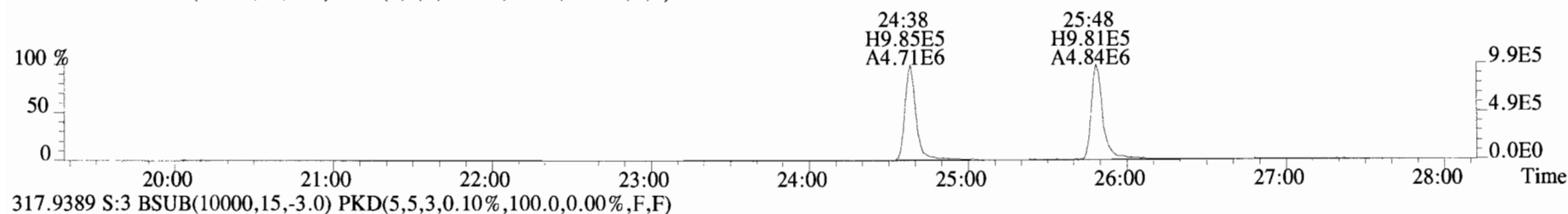
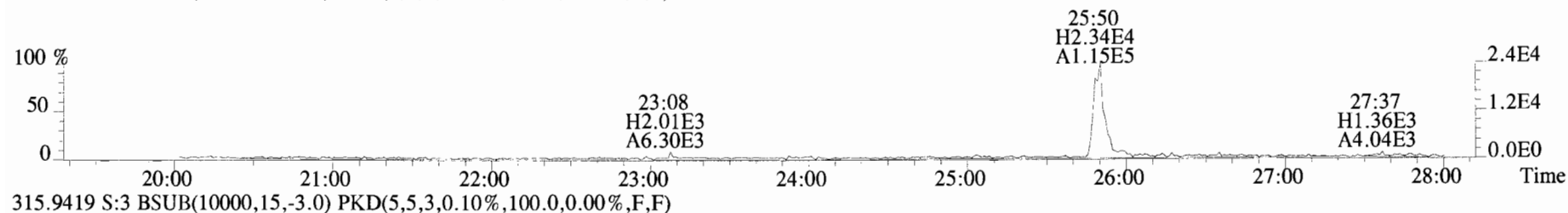
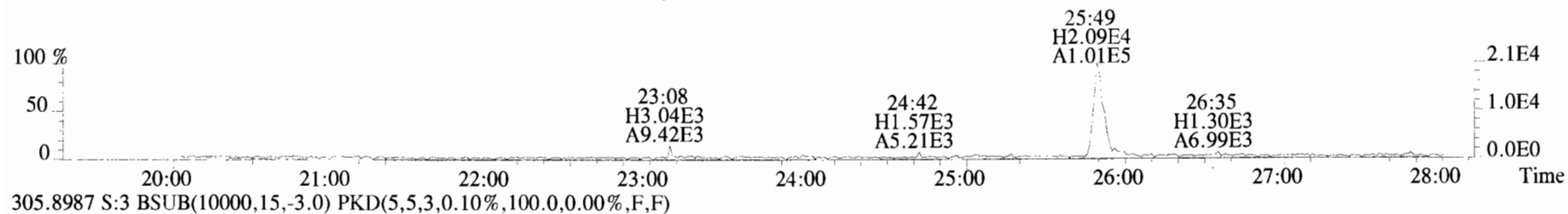
471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



454.9728 S:3 F:5

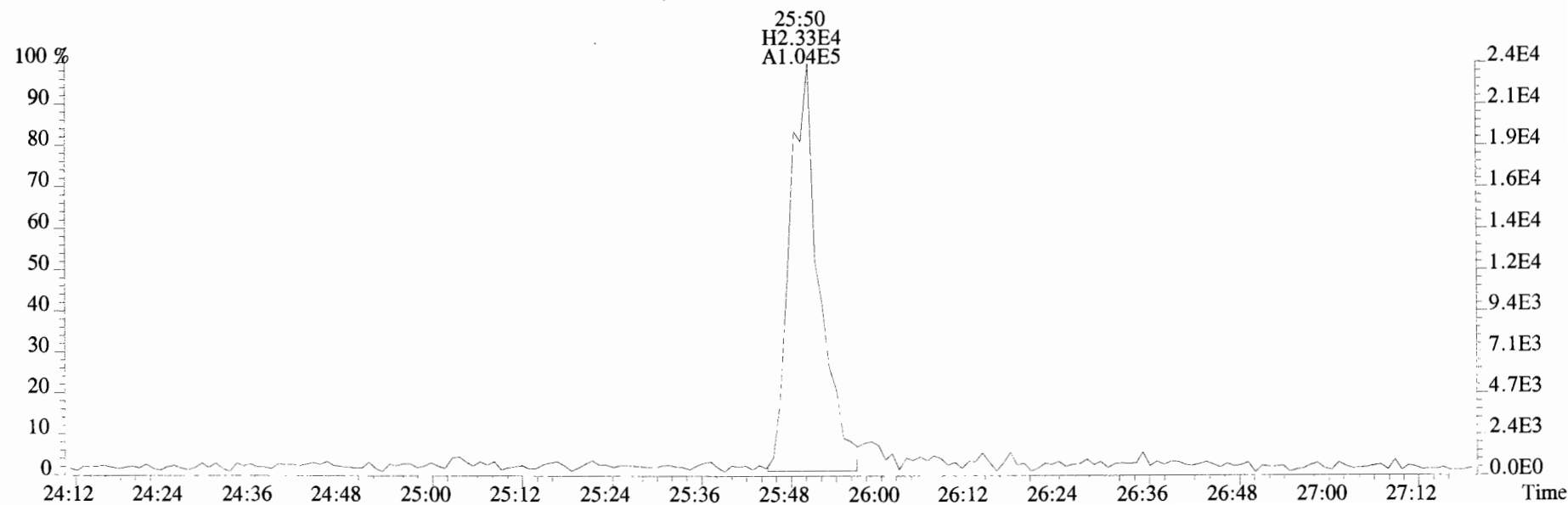
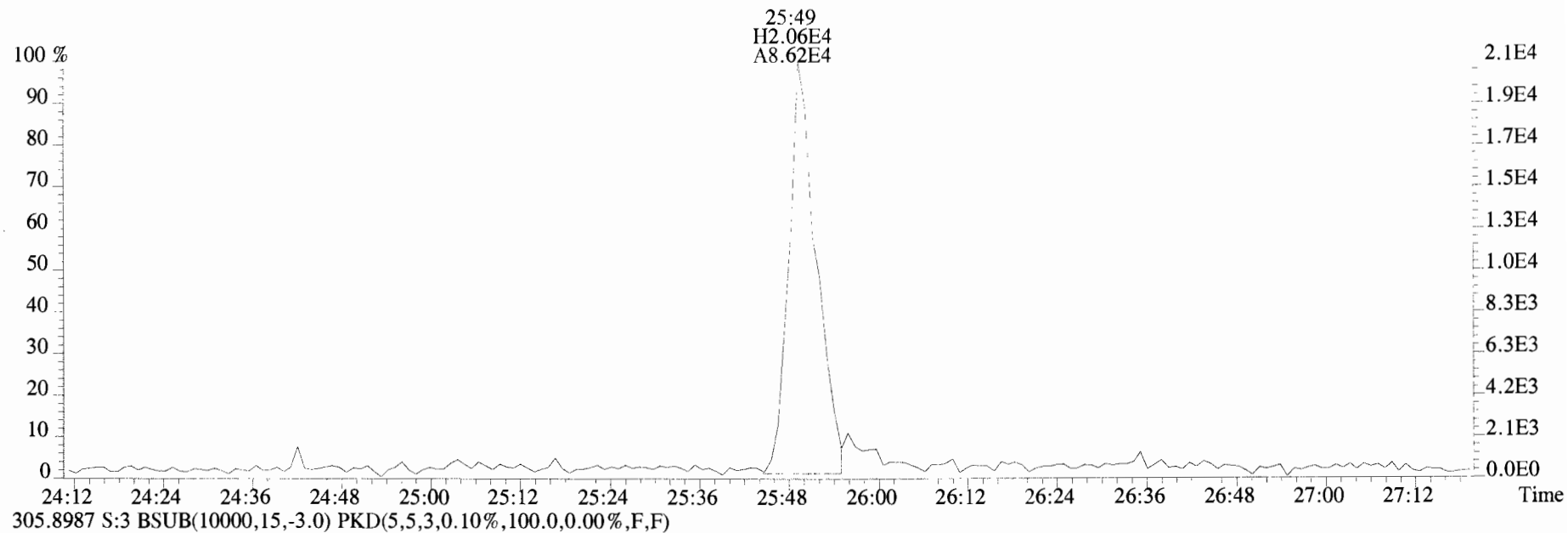


File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

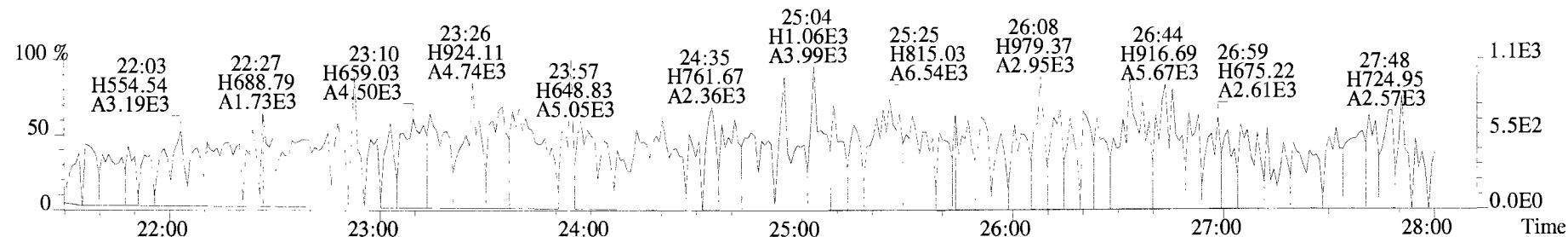




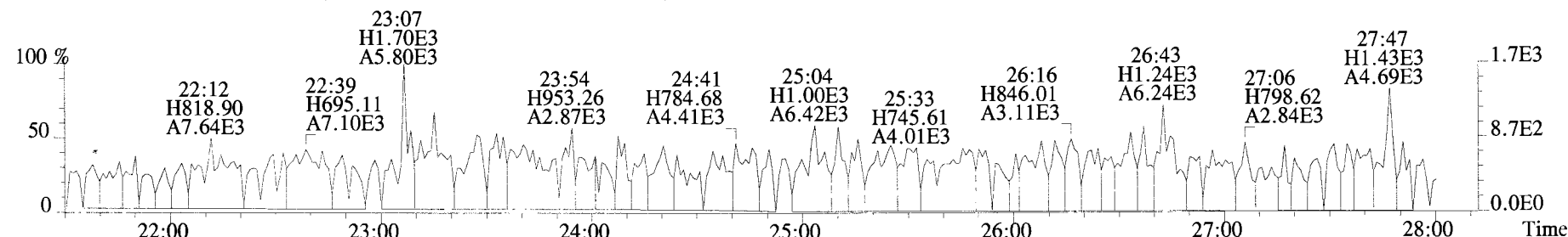
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



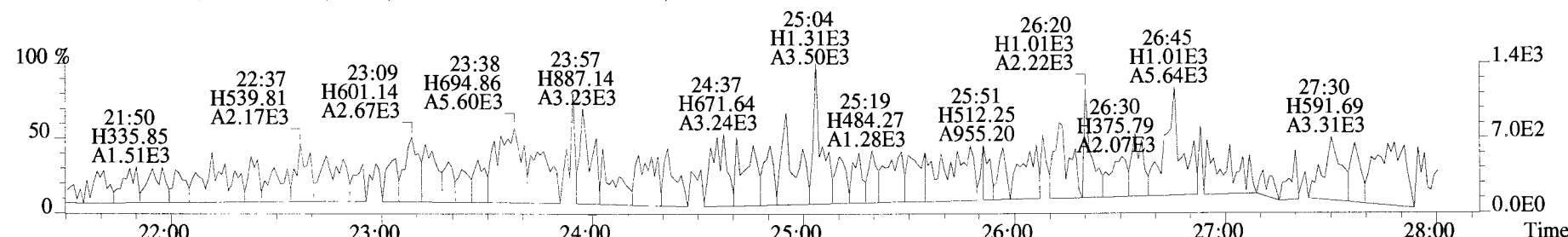
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



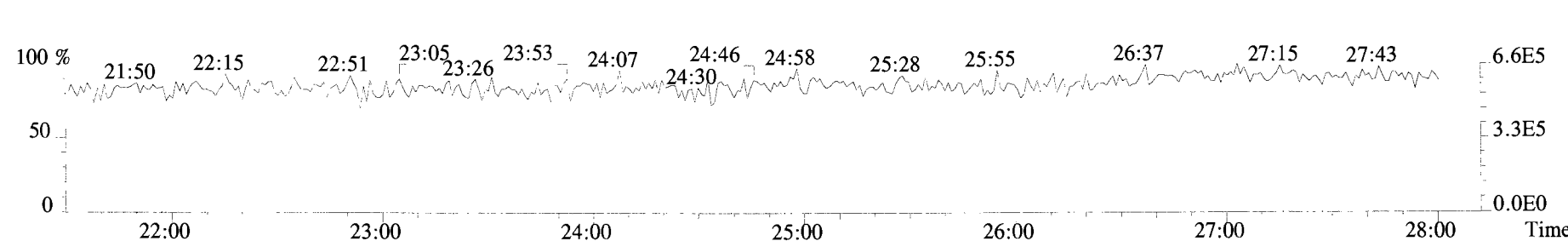
341.8568 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



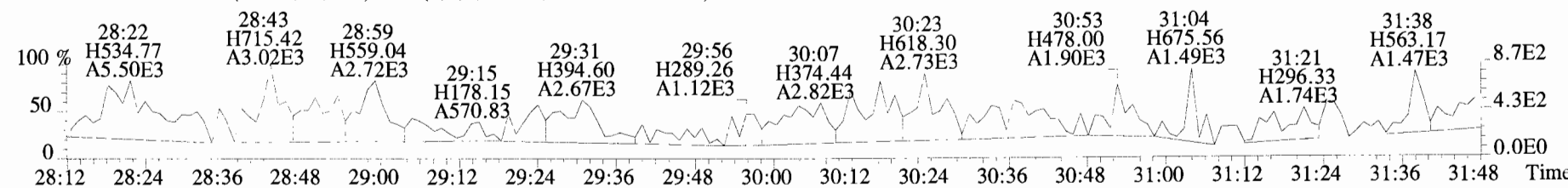
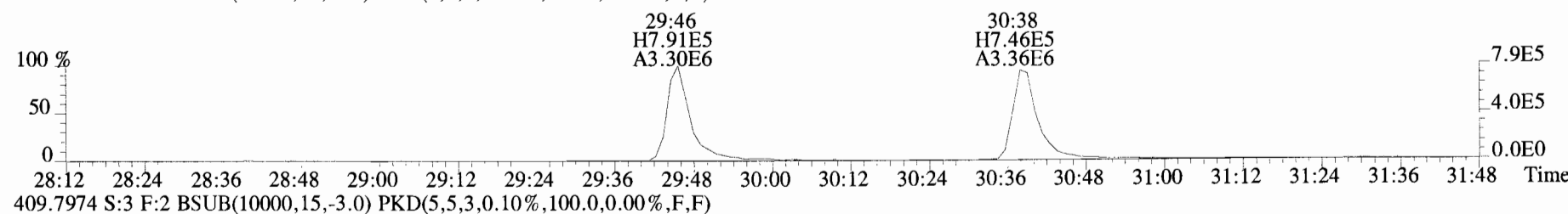
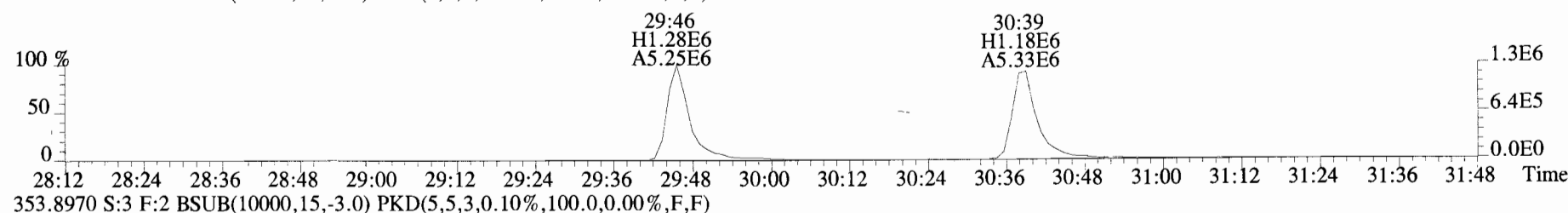
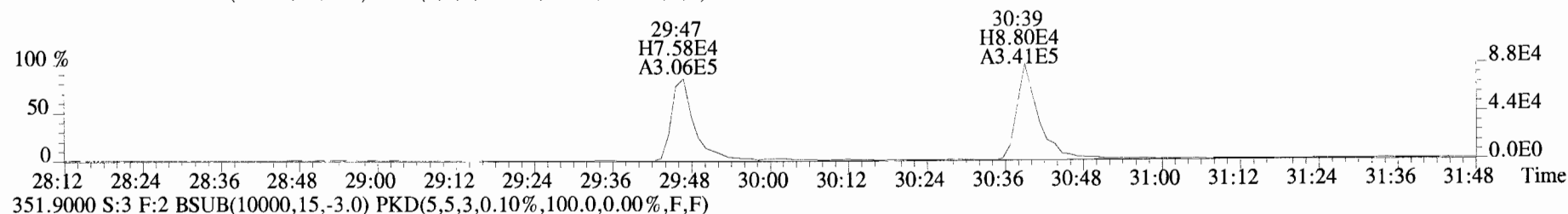
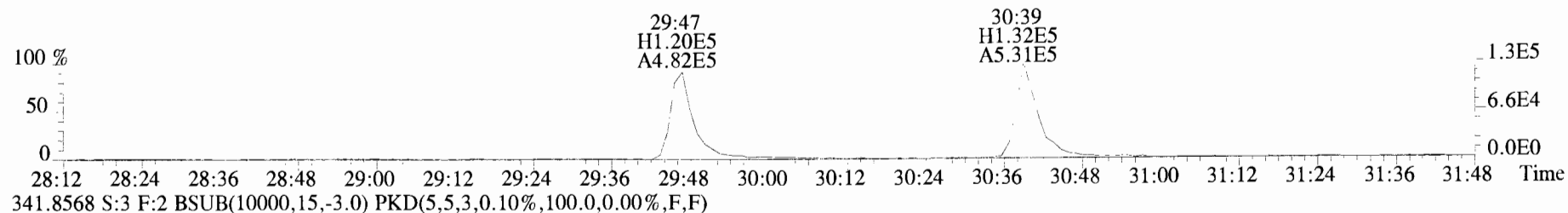
409.7974 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



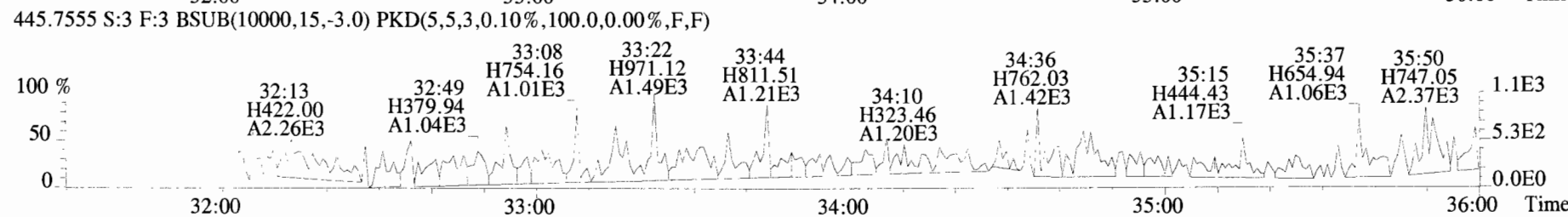
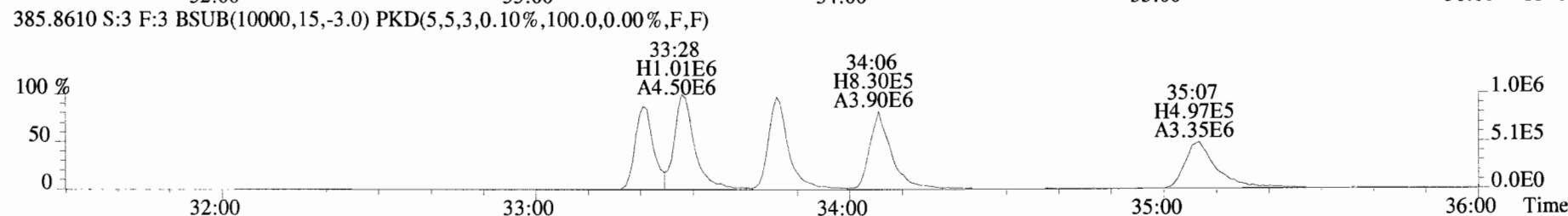
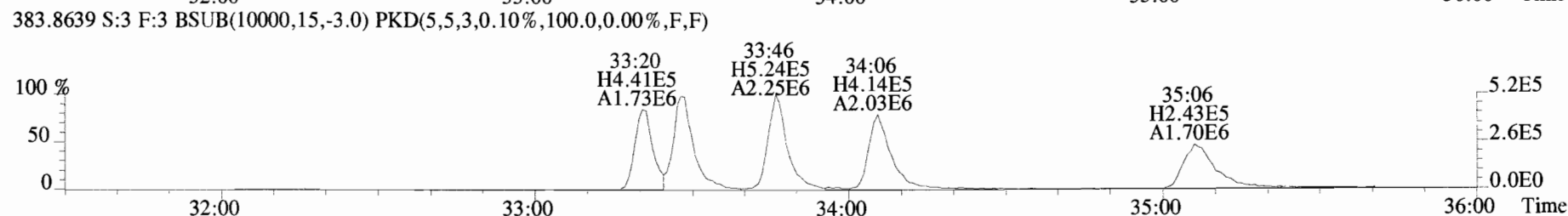
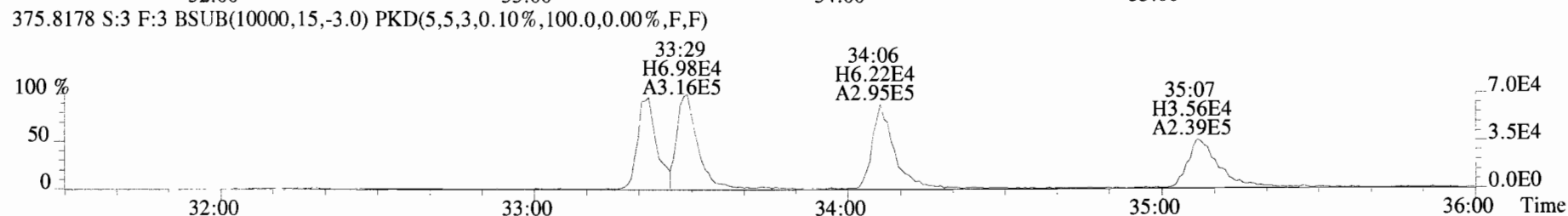
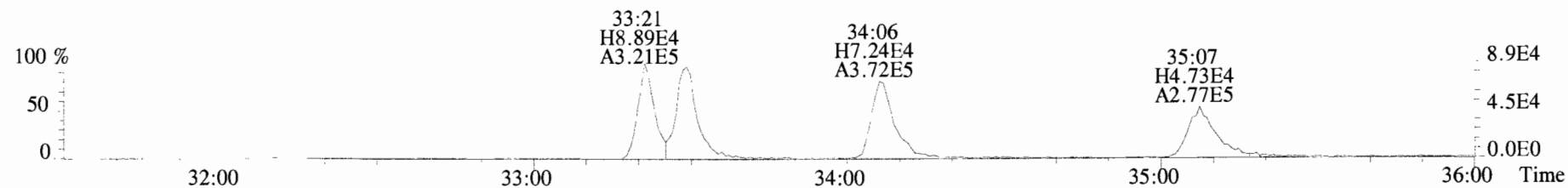
316.9824 S:3



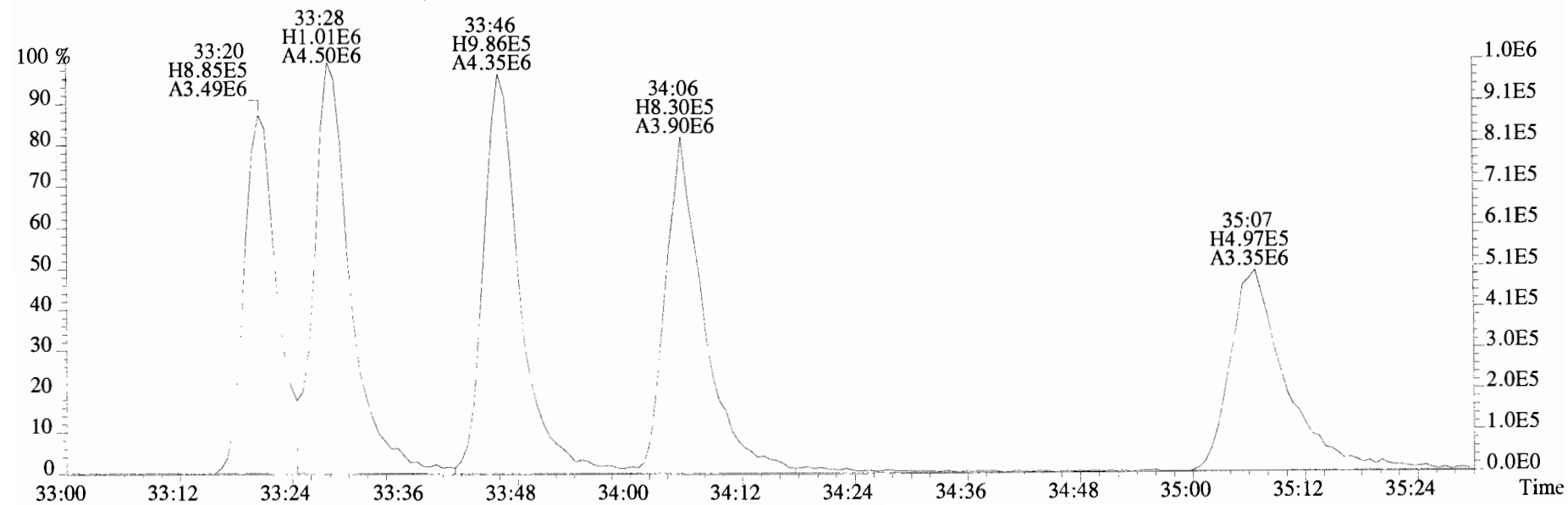
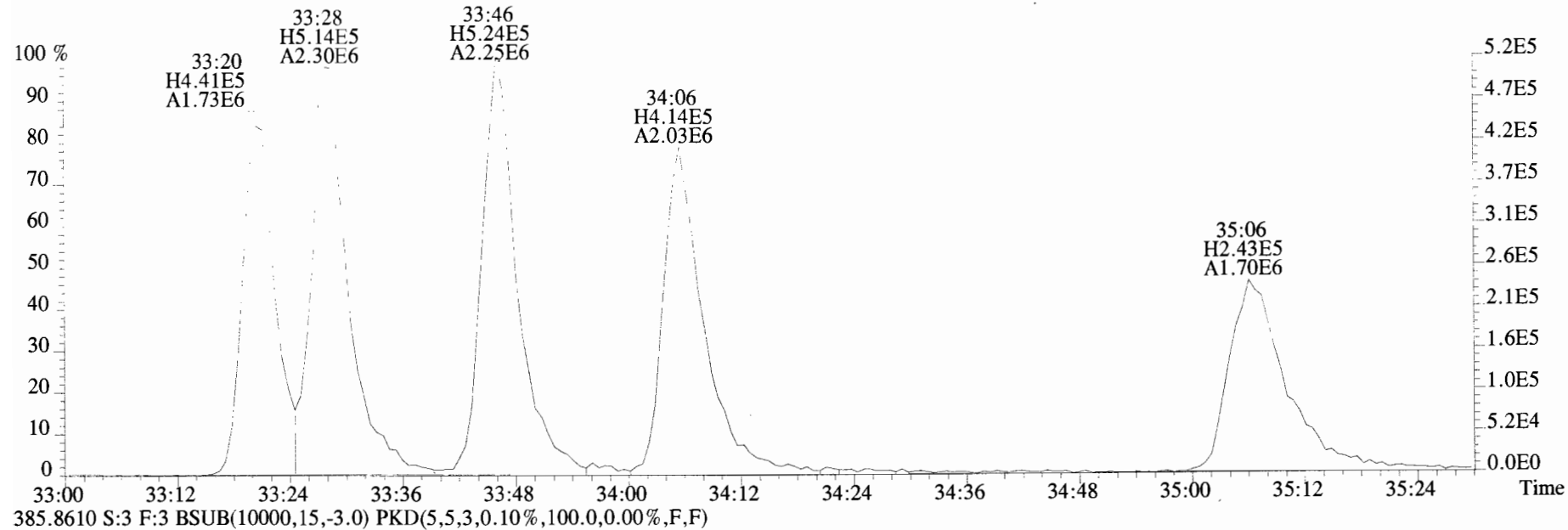
File:191009D1 #1-211 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



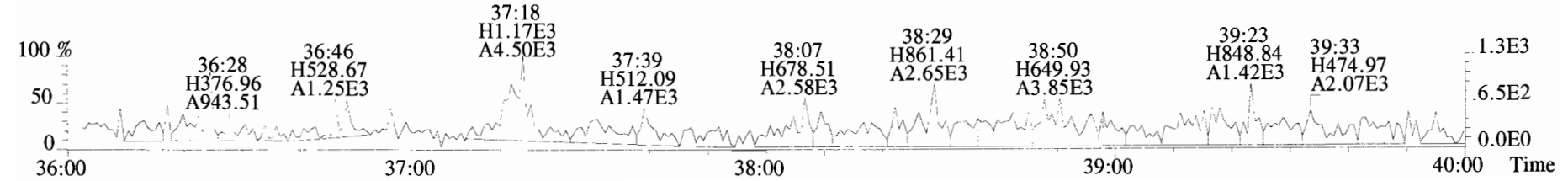
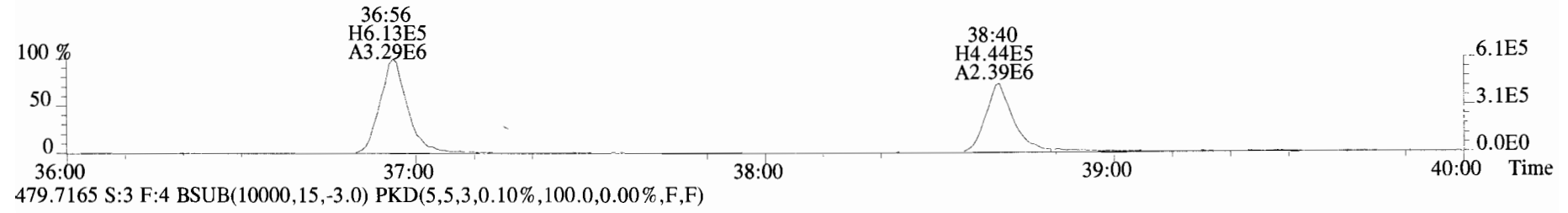
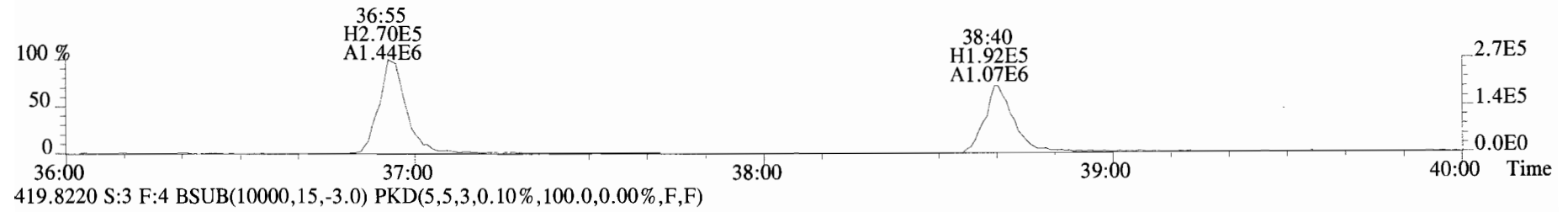
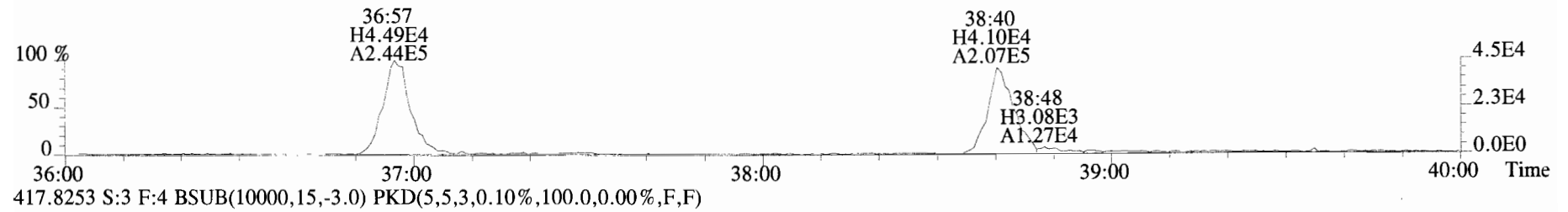
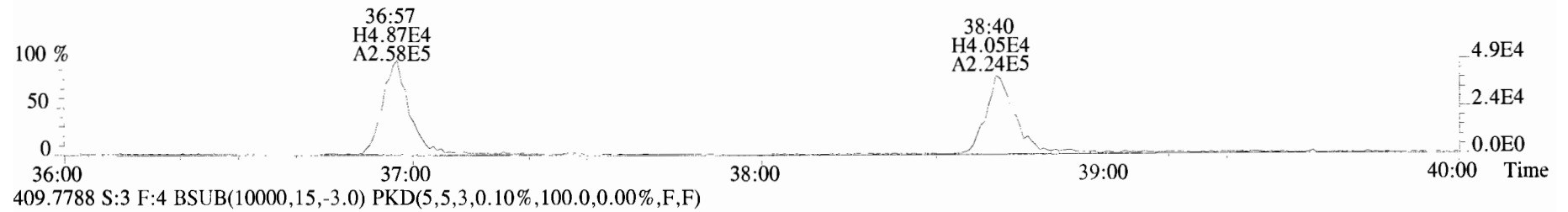
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
 373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



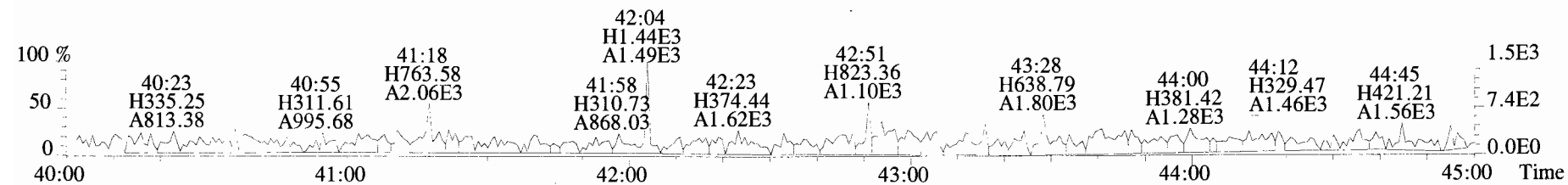
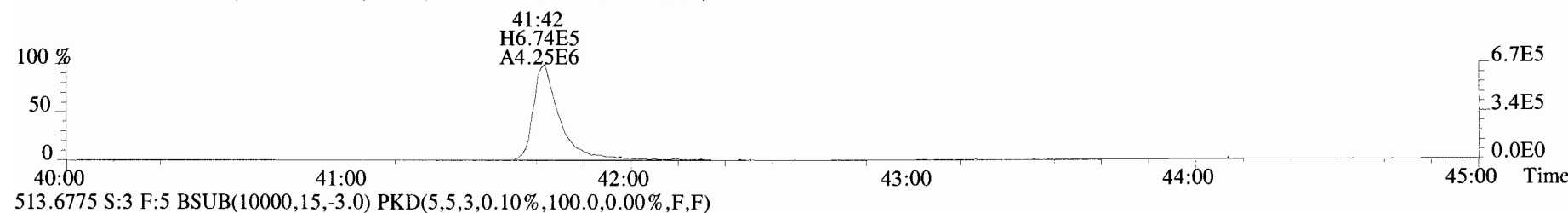
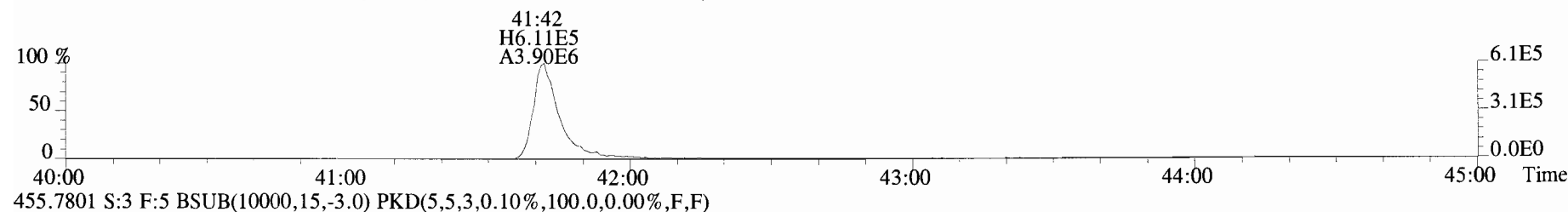
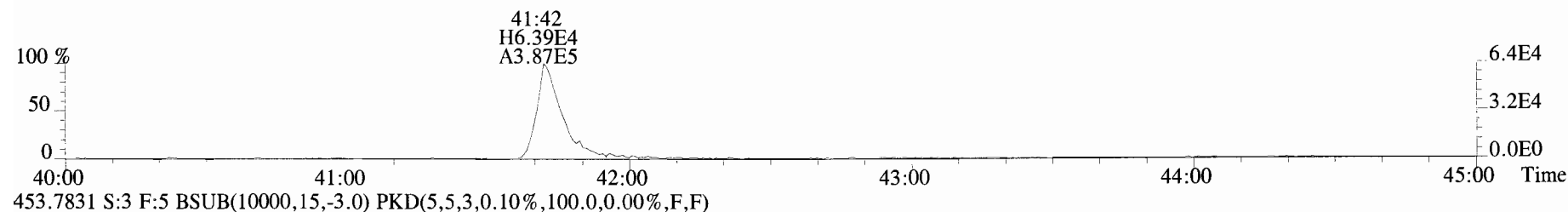
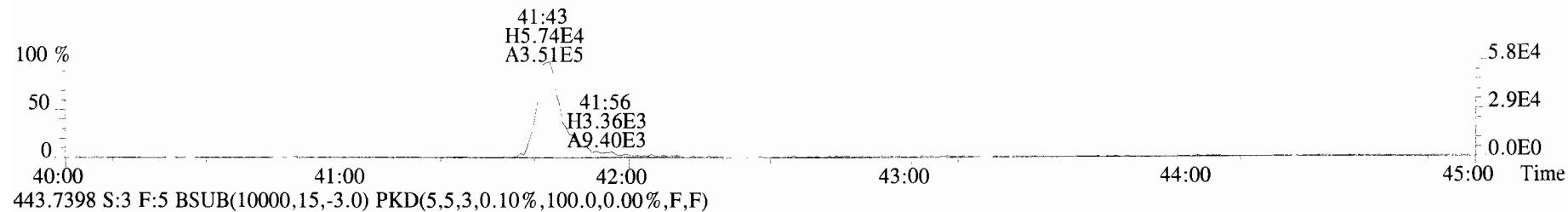
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
383.8639 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



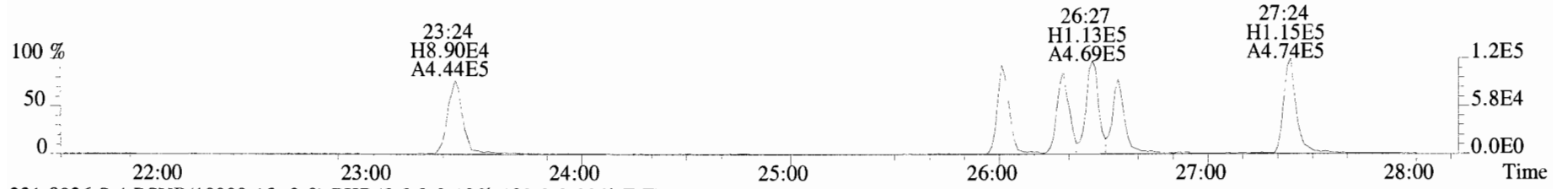
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



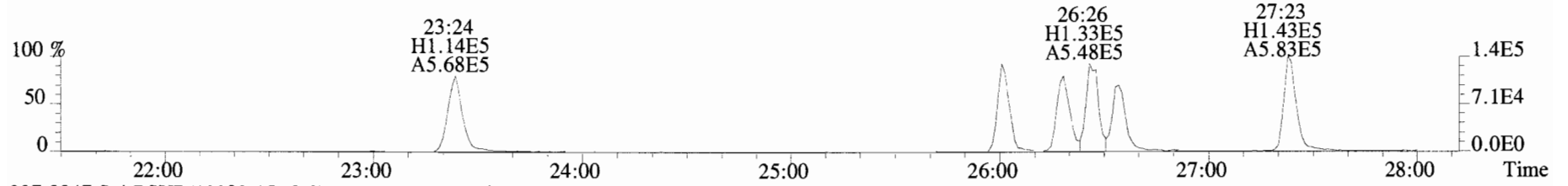
File:191009D1 #1-432 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



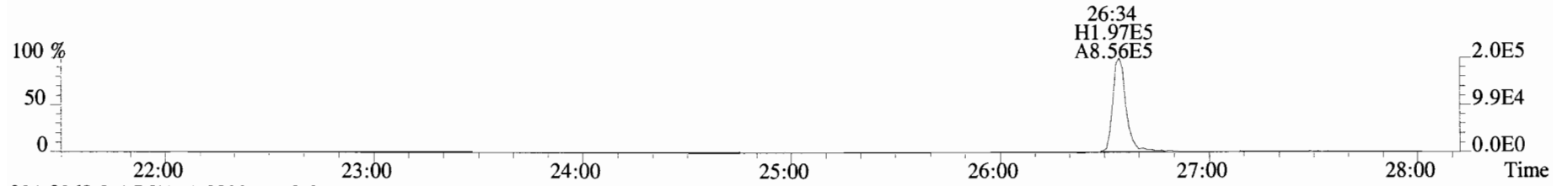
File:191009D1 #1-513 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



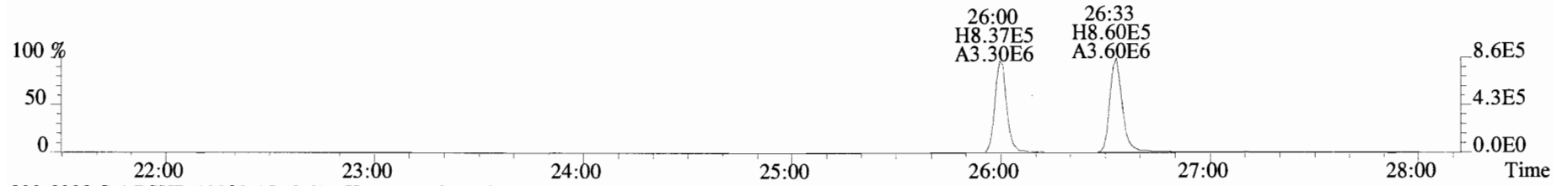
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



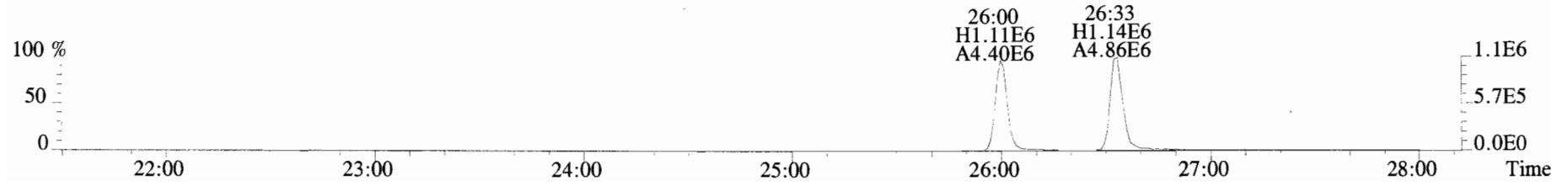
327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

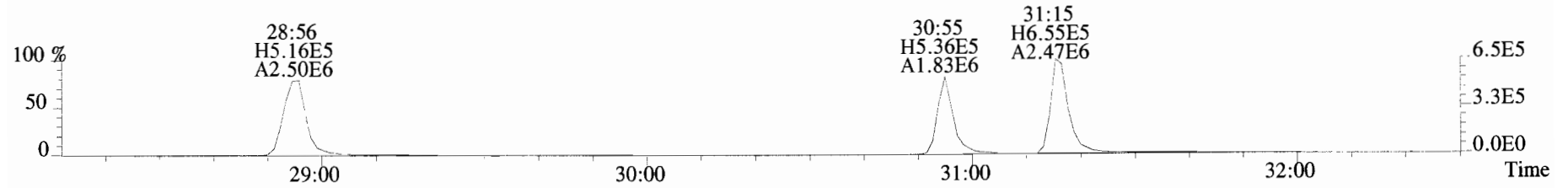




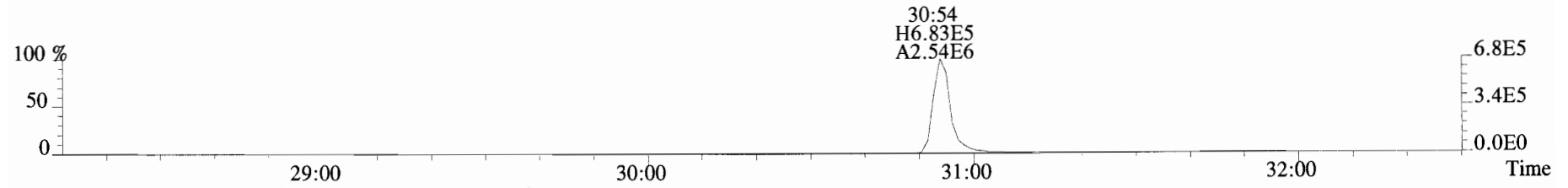
File:191009D1 #1-211 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical\_Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



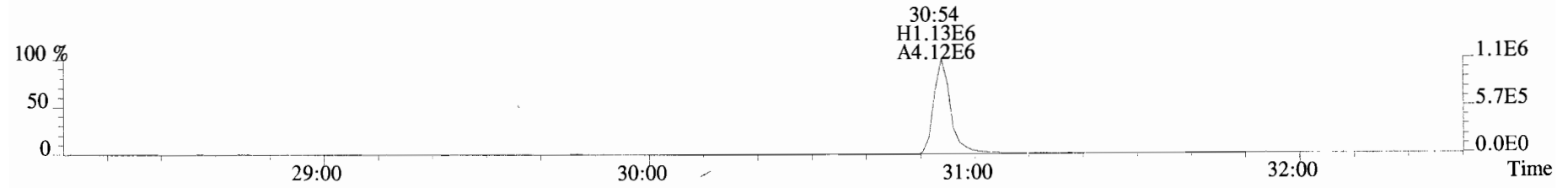
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



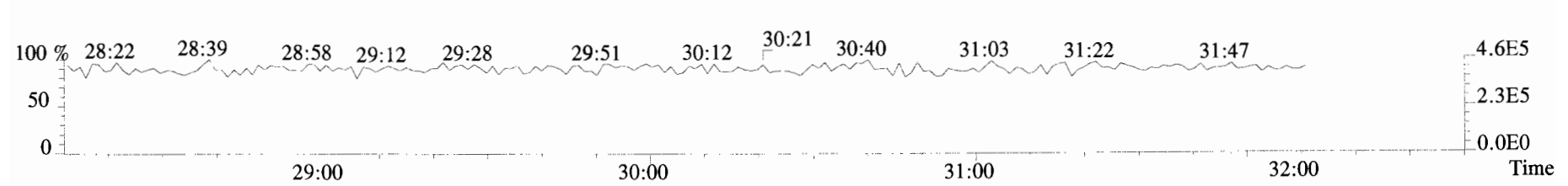
365.8978 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



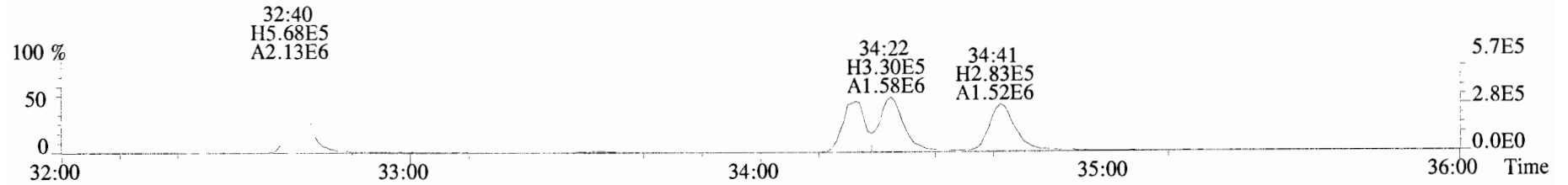
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



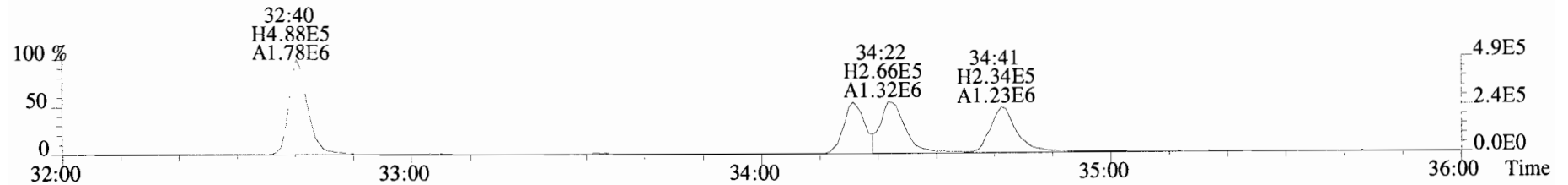
366.9792 S:4 F:2



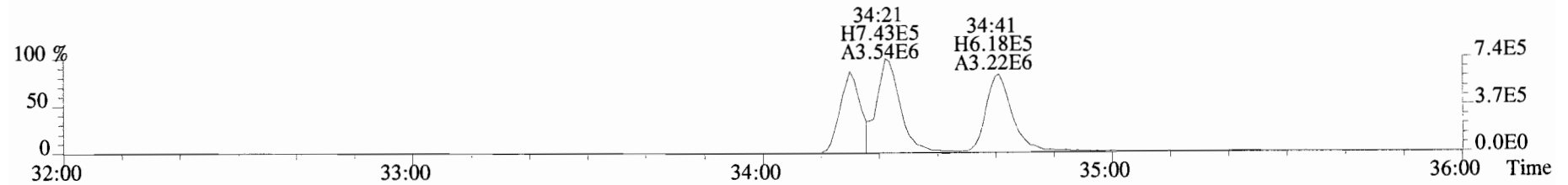
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
 389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



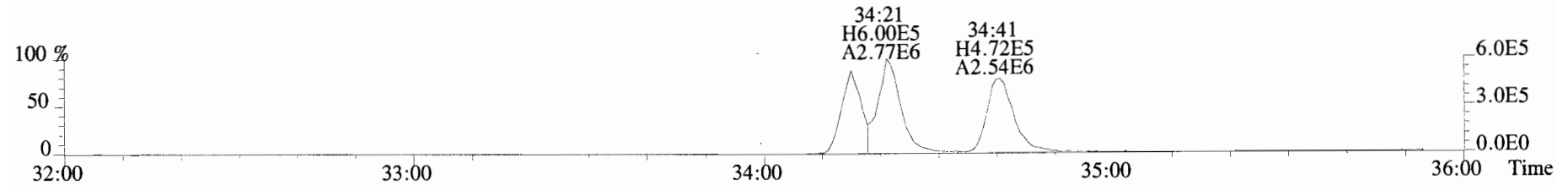
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



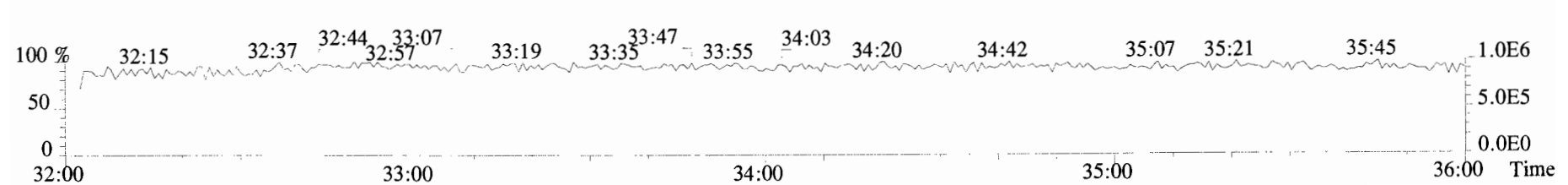
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



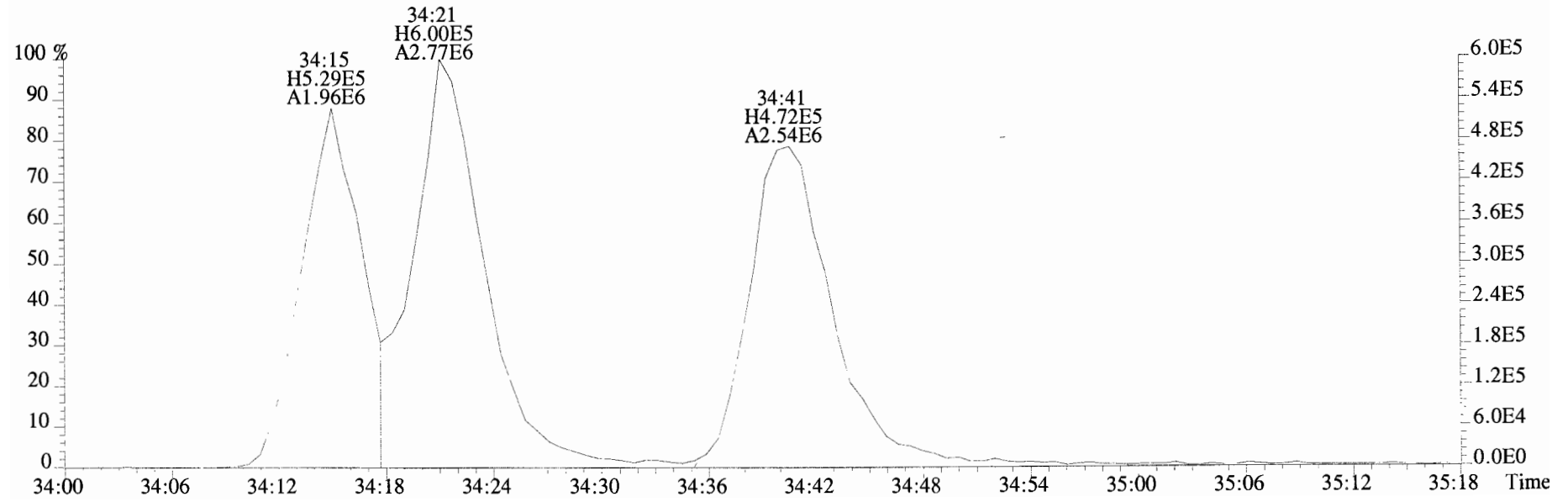
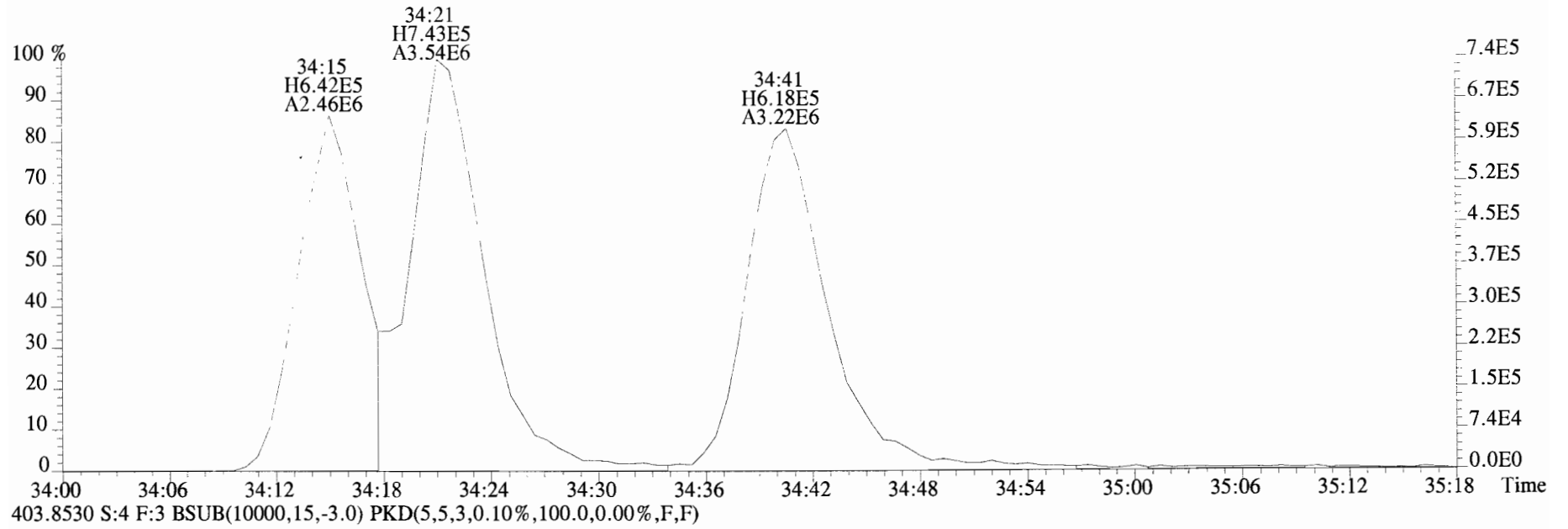
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



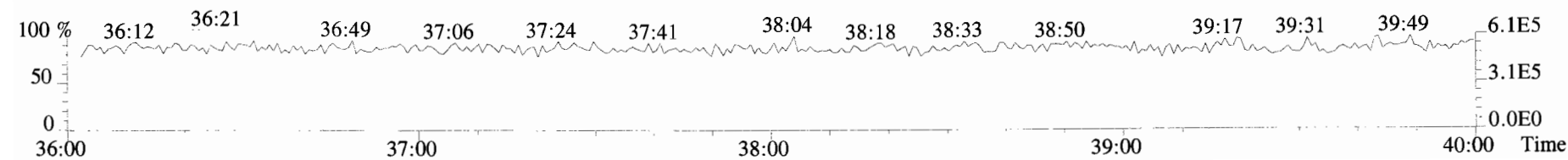
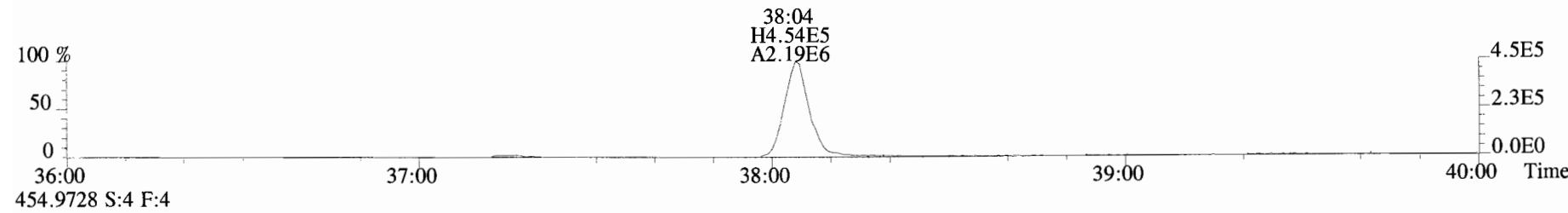
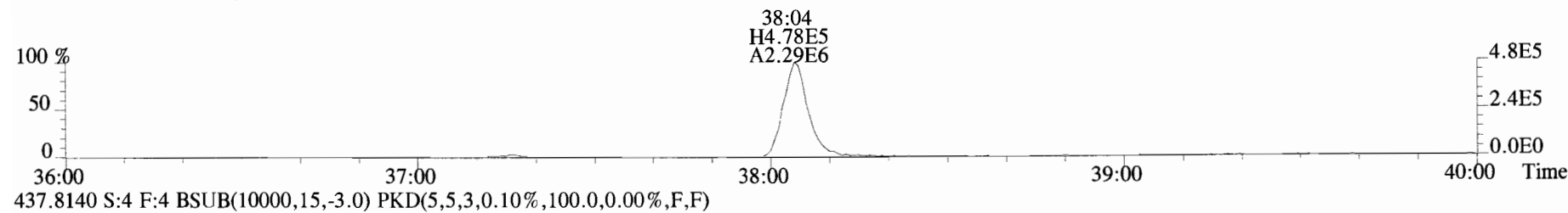
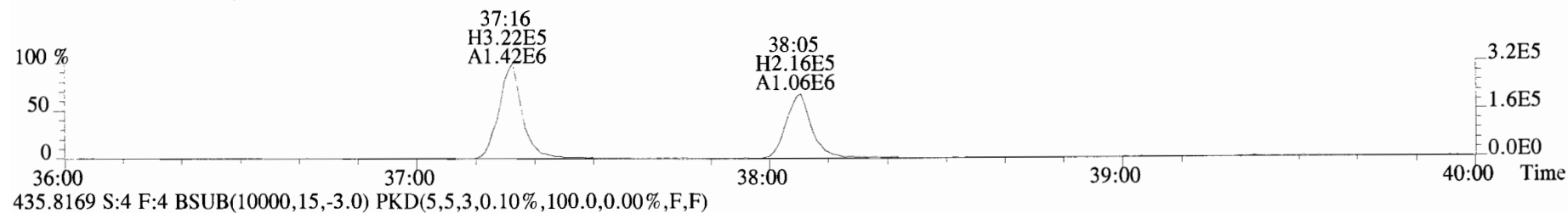
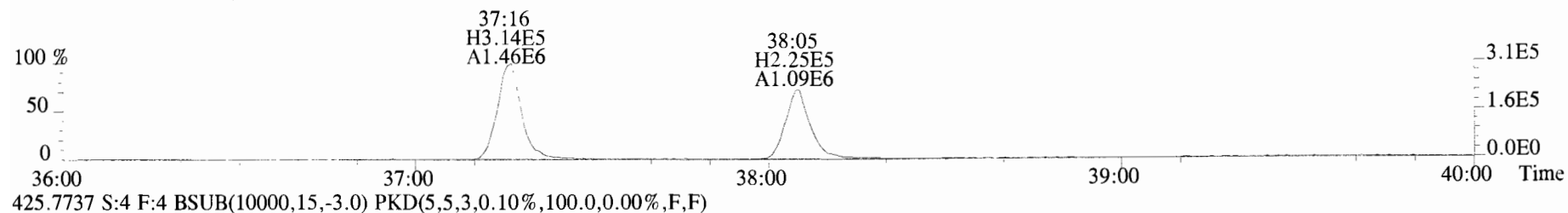
392.9760 S:4 F:3



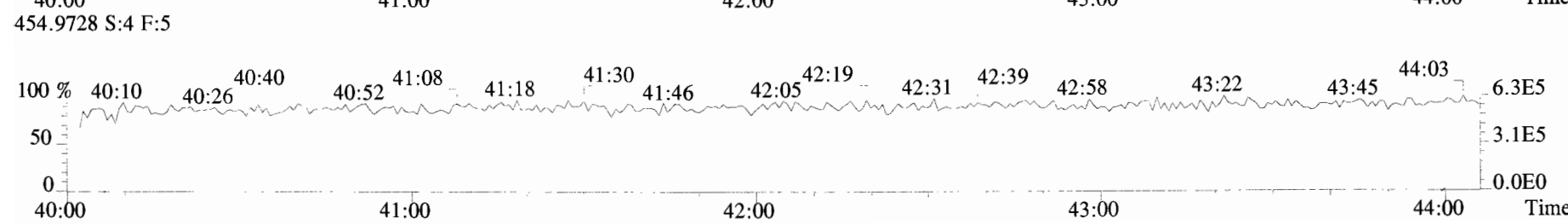
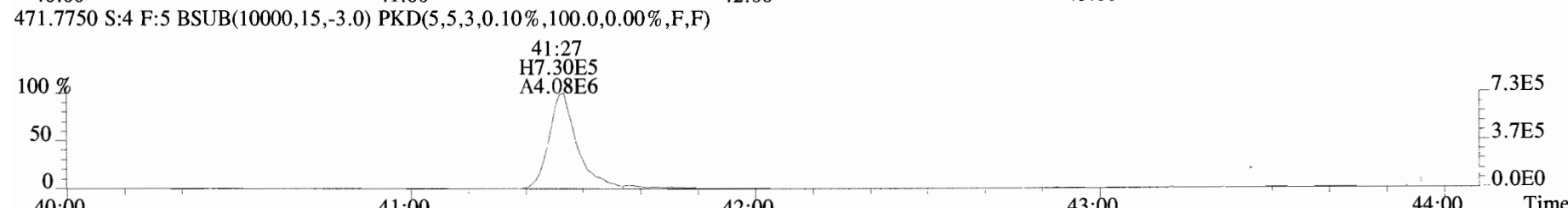
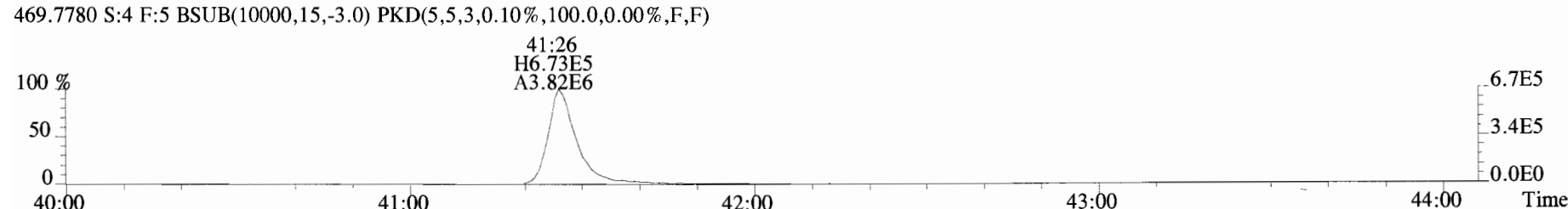
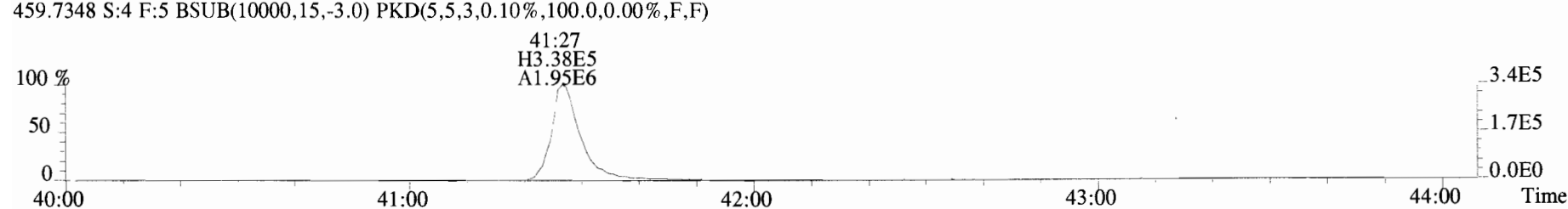
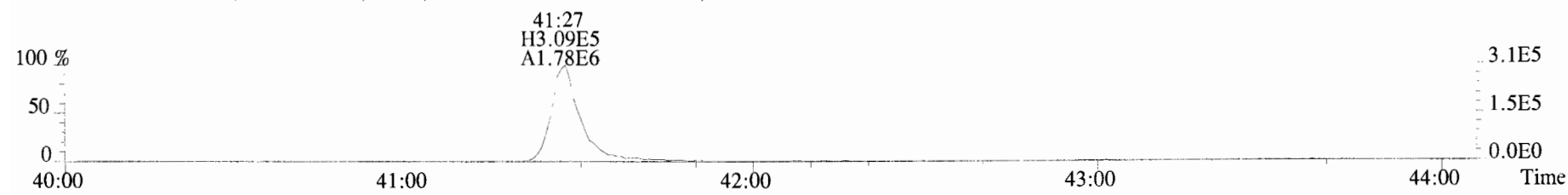
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



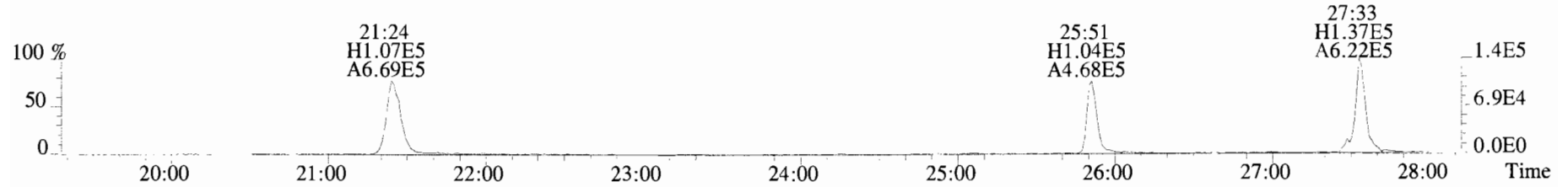
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



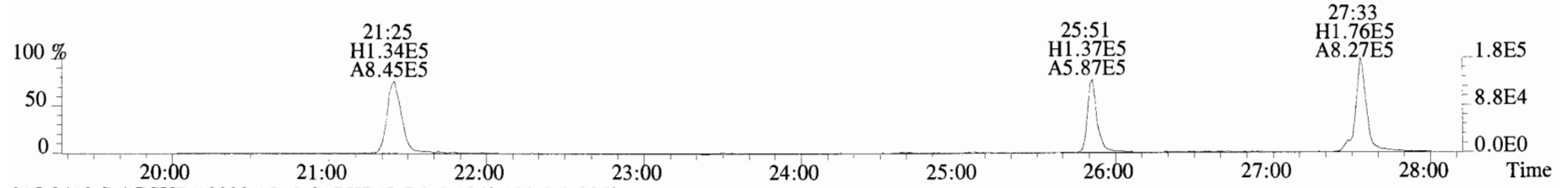
File:191009D1 #1-432 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



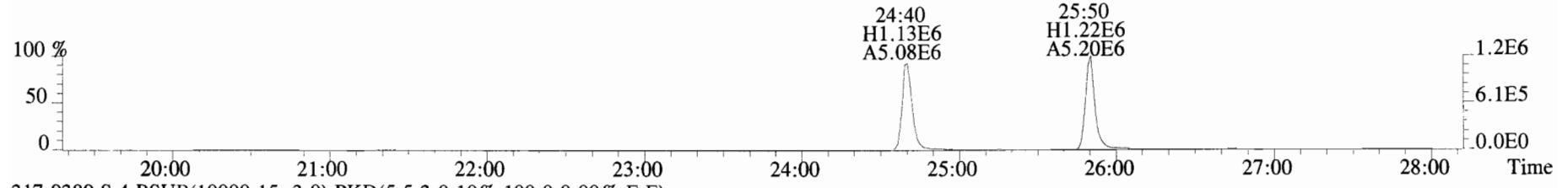
File:191009D1 #1-513 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



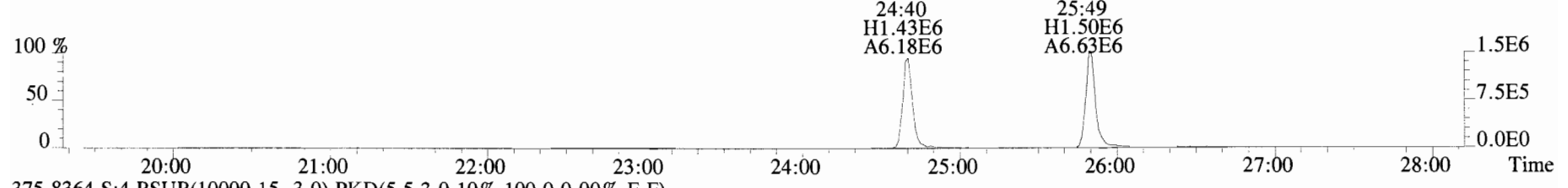
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



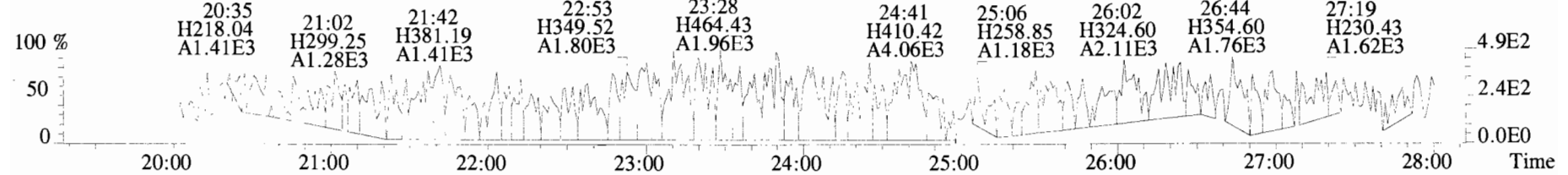
315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



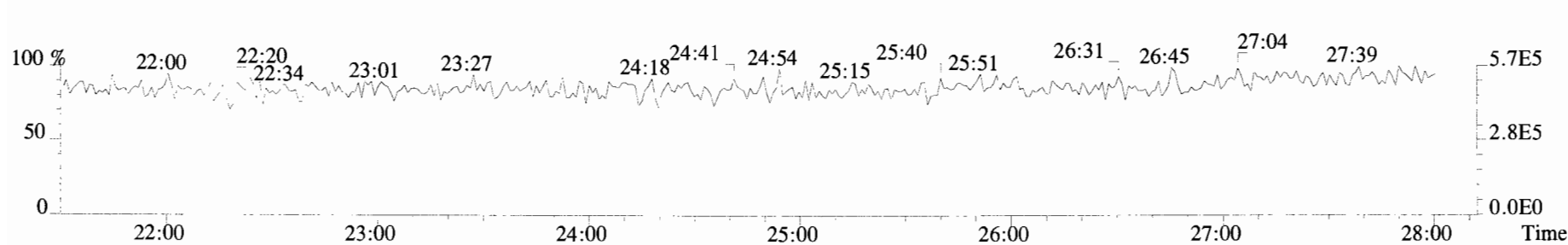
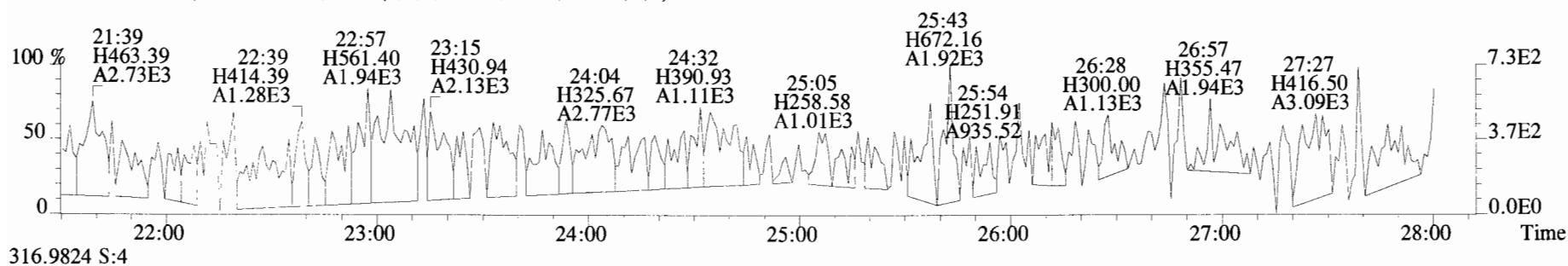
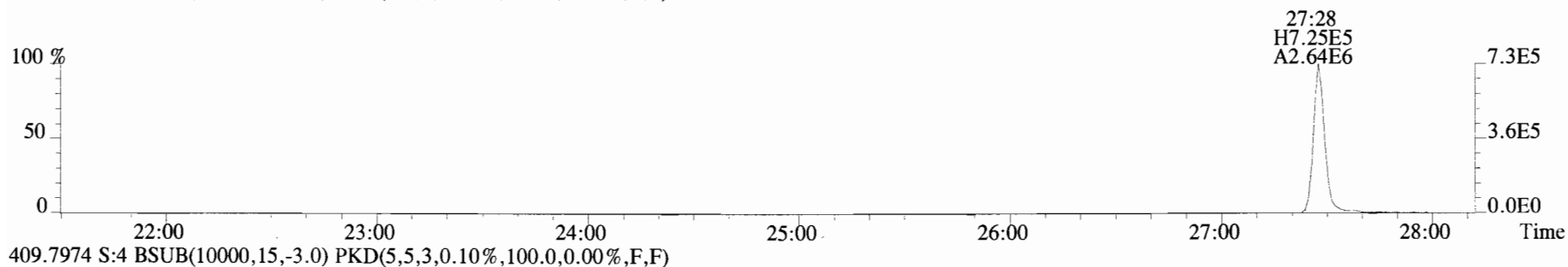
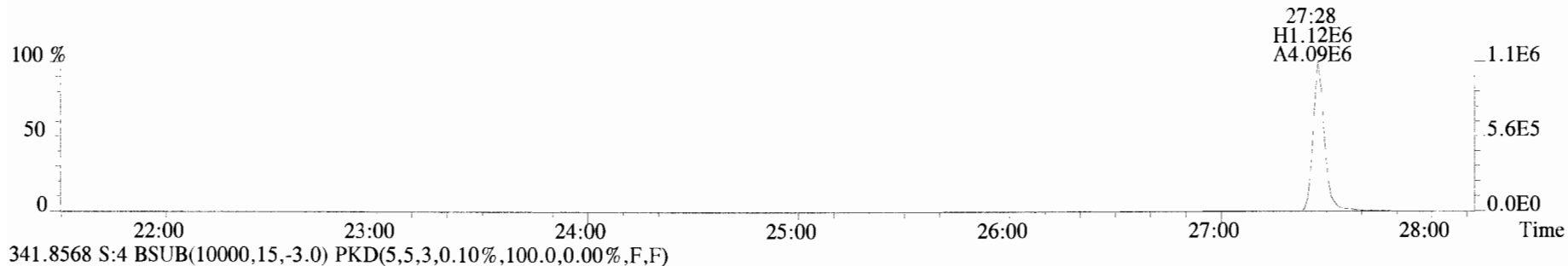
317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



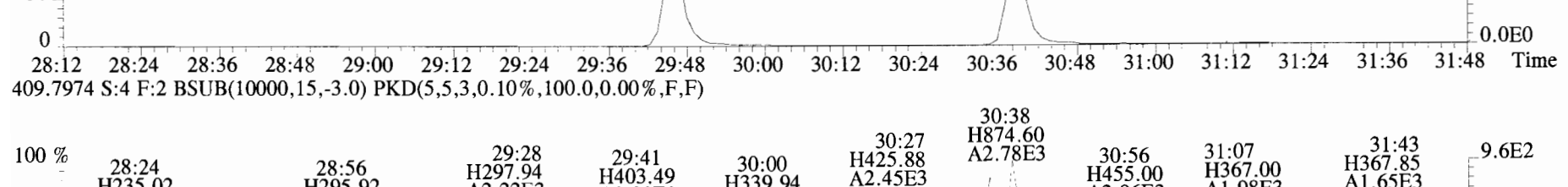
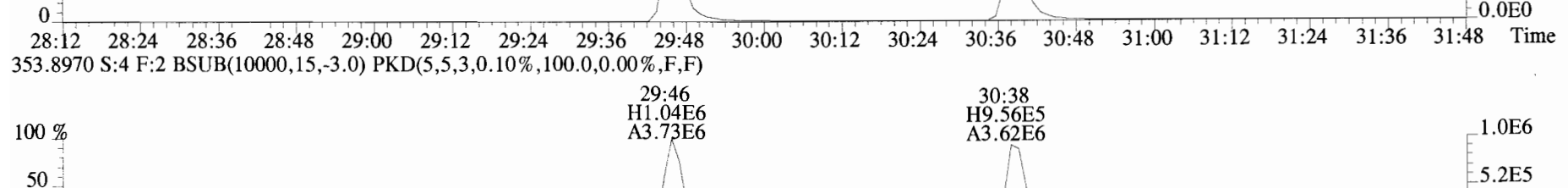
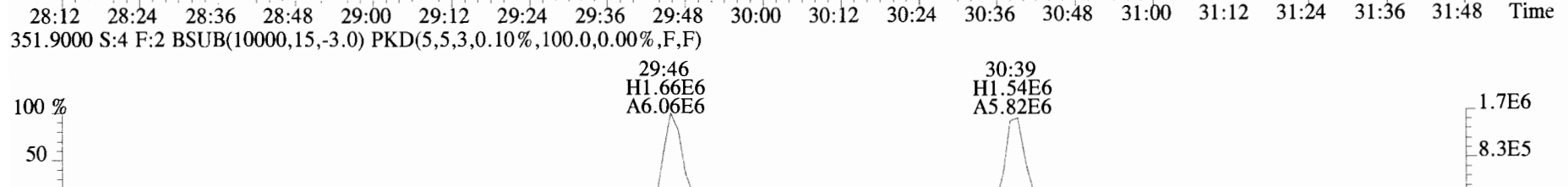
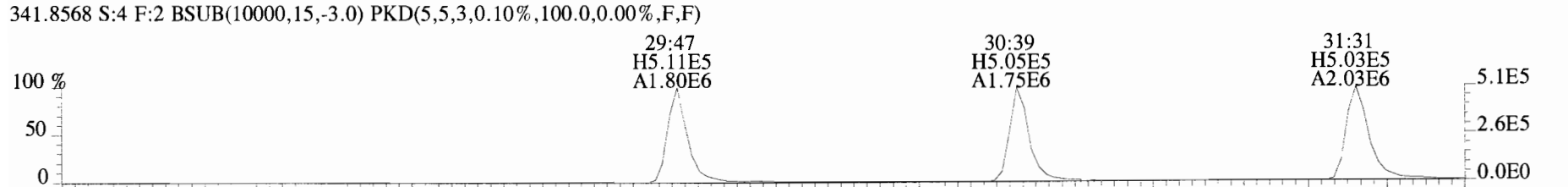
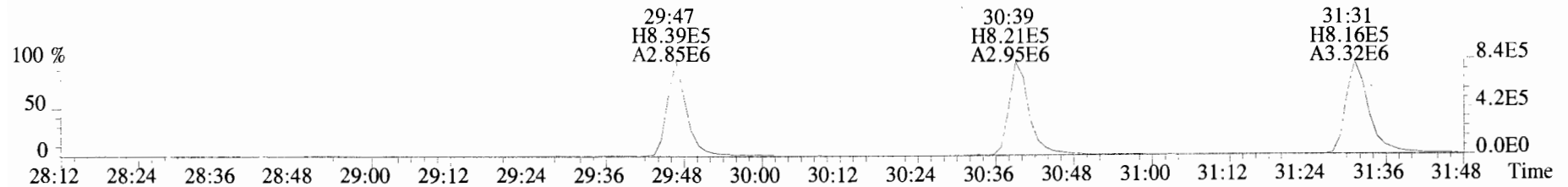
375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191009D1 #1-513 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

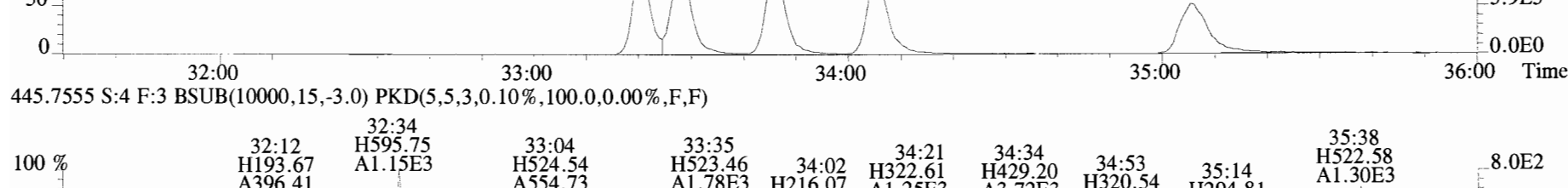
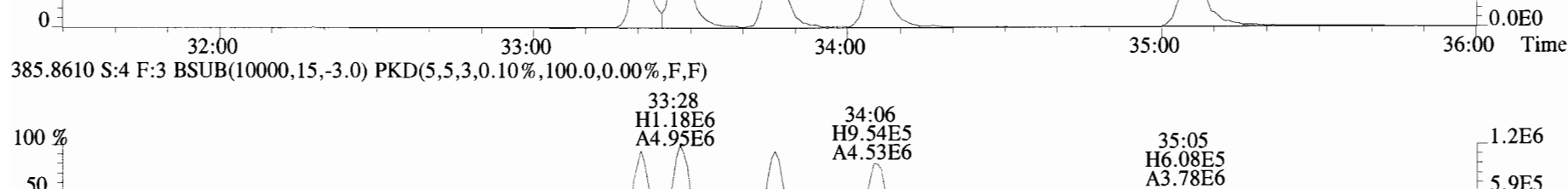
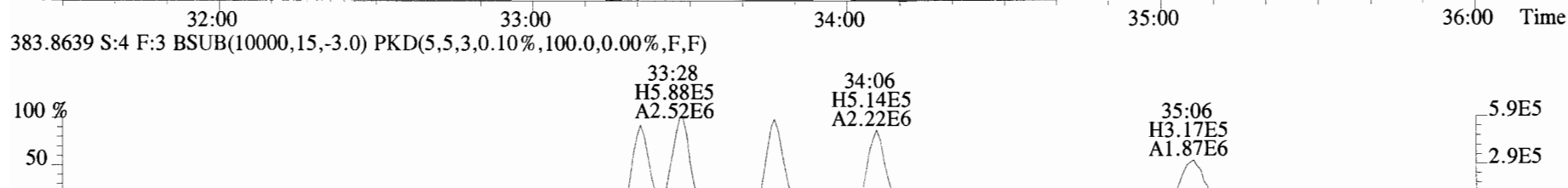
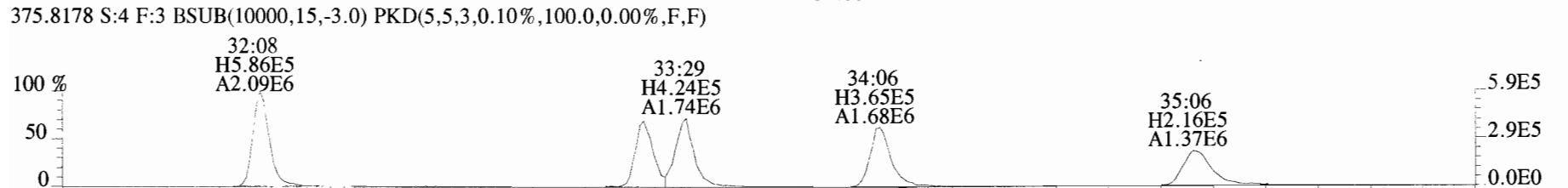
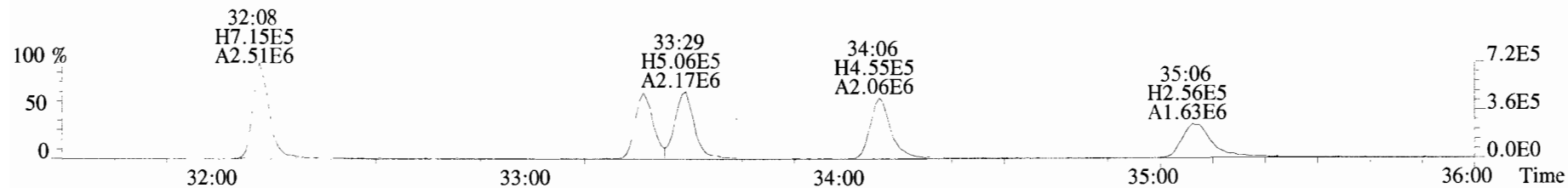


File:191009D1 #1-211 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

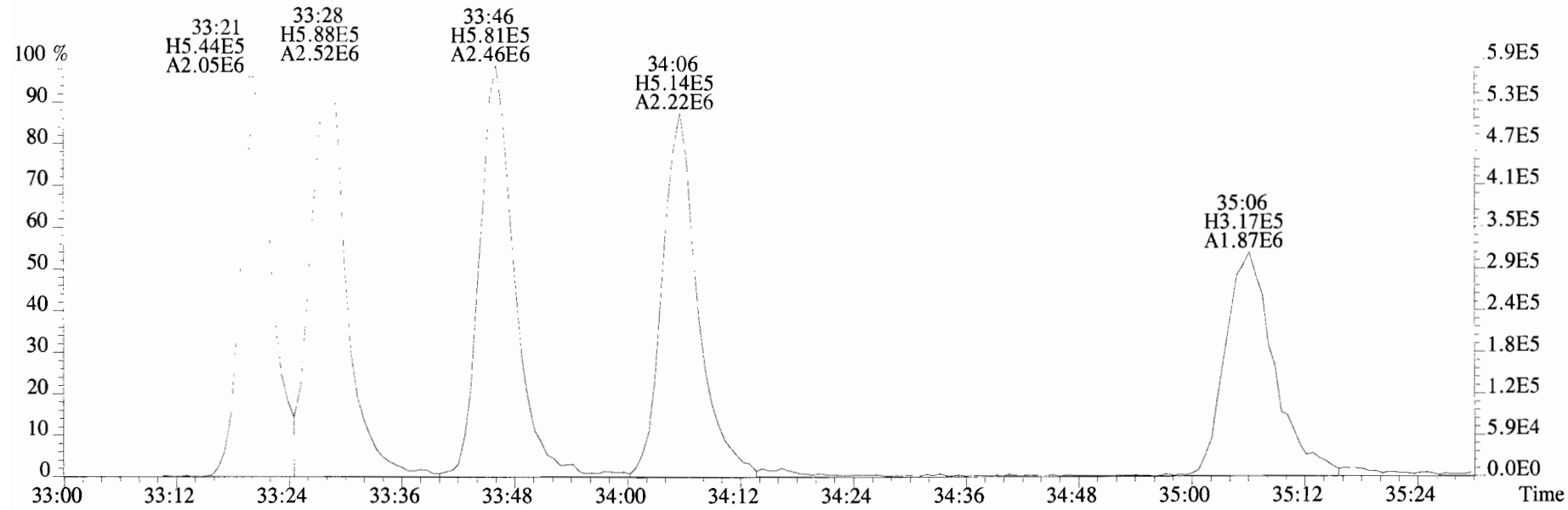




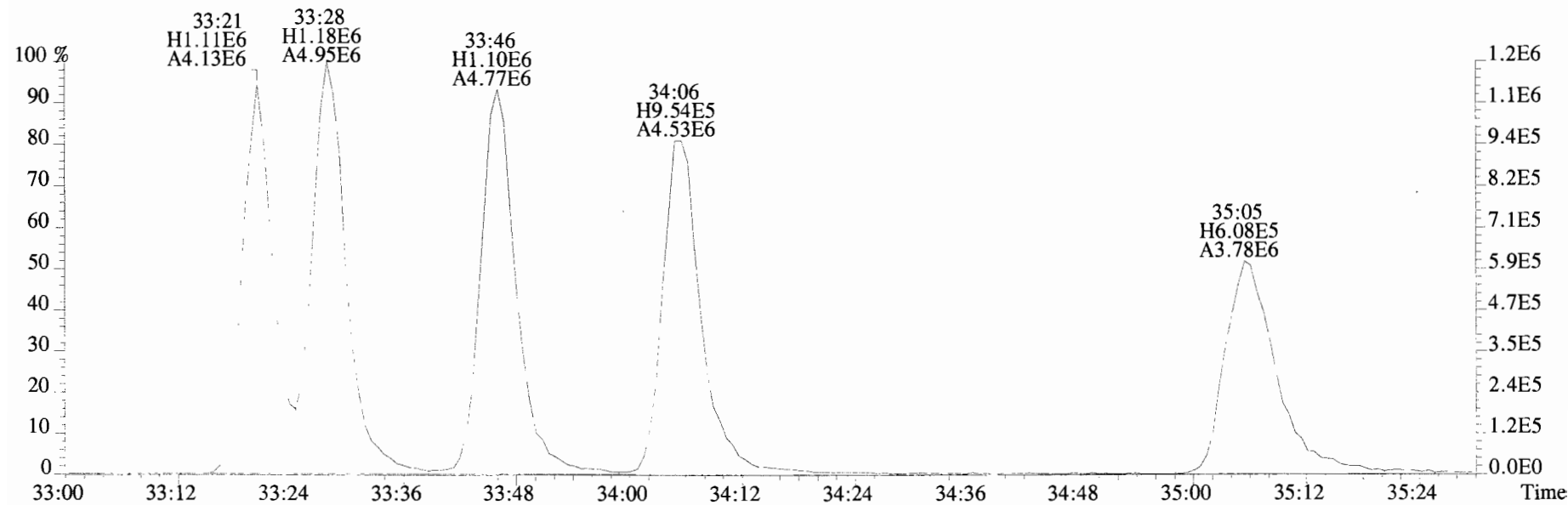
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



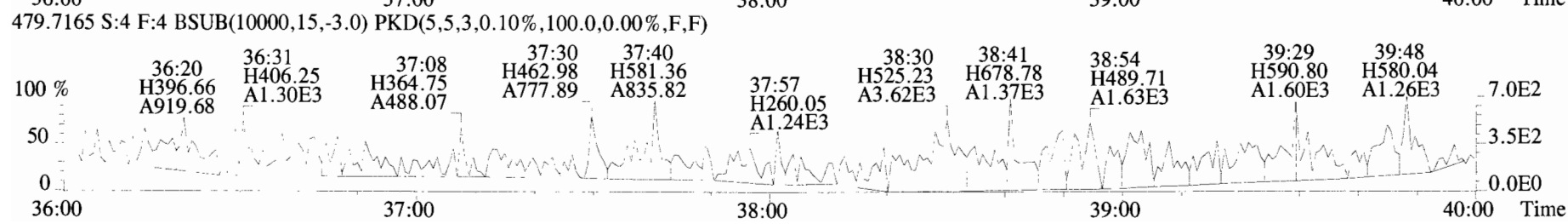
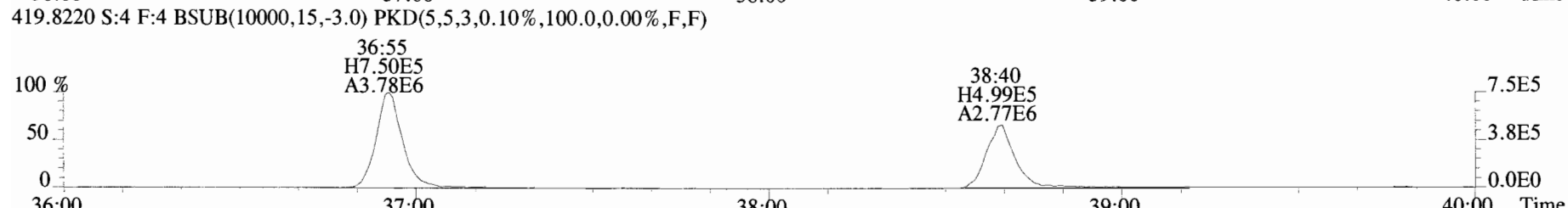
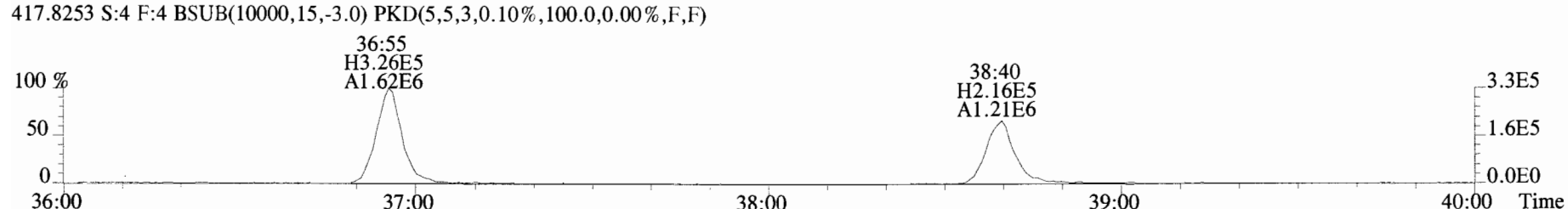
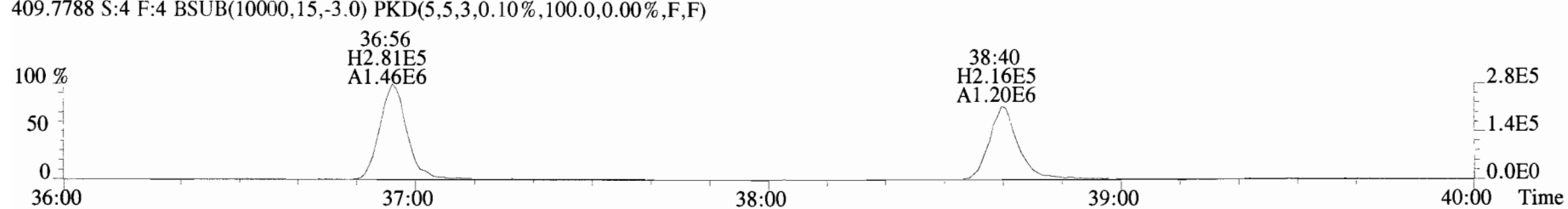
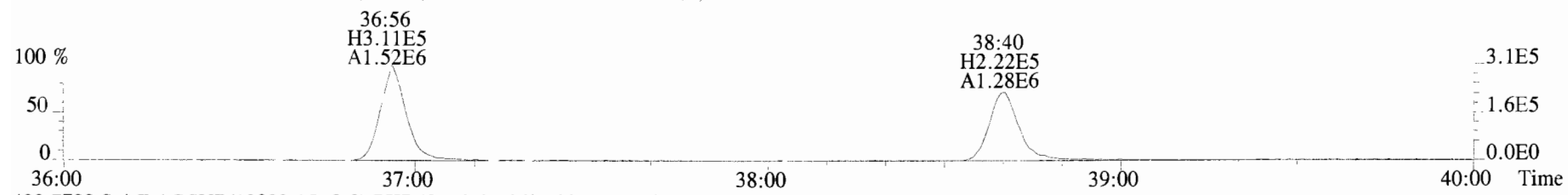
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
 383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



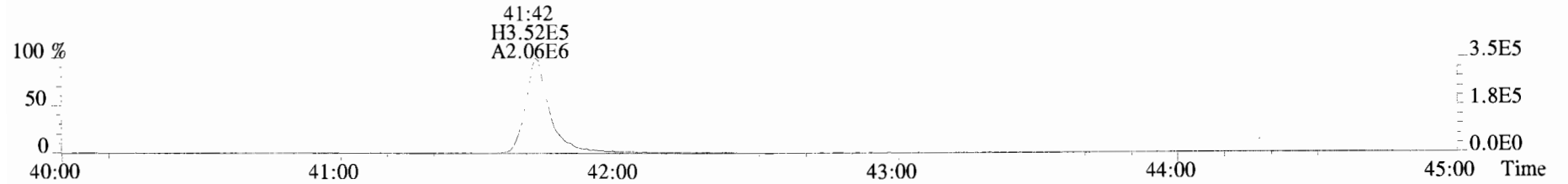
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



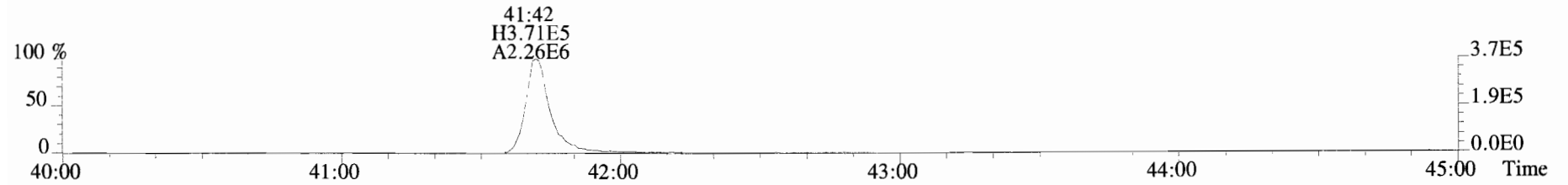
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
 407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



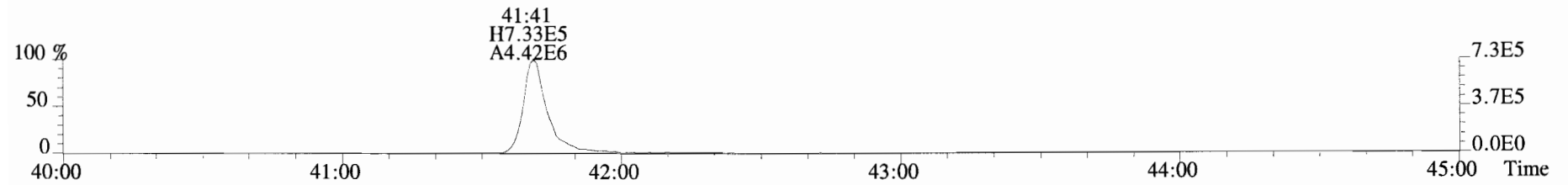
File:191009D1 #1-432 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical\_Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



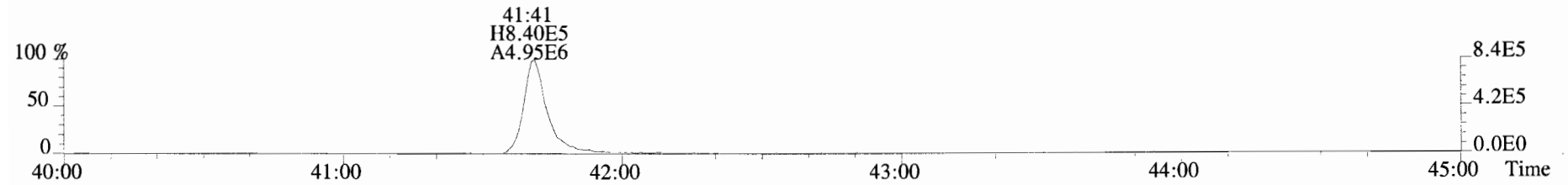
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



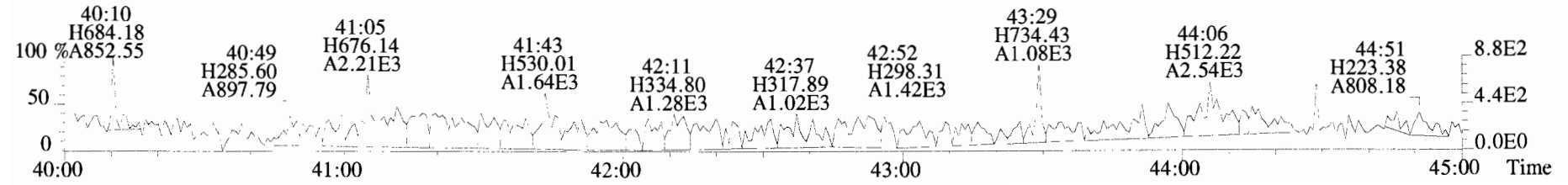
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



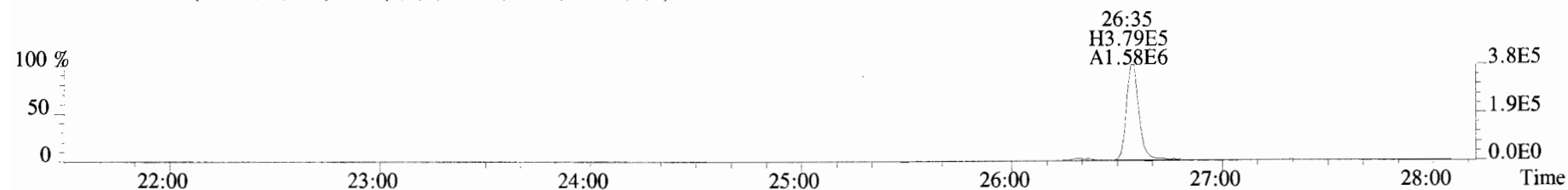
455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



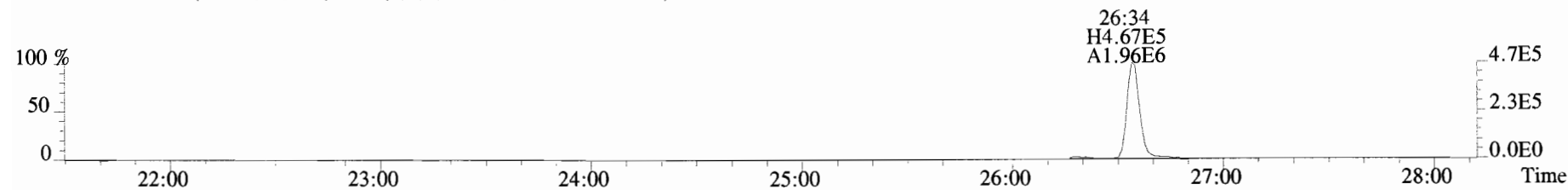
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



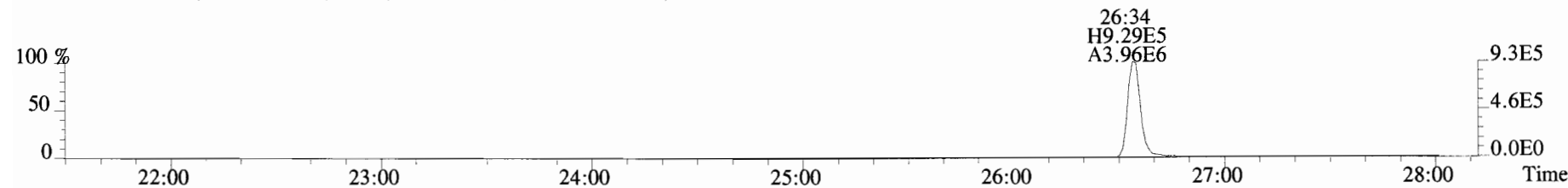
File:191009D1 #1-514 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



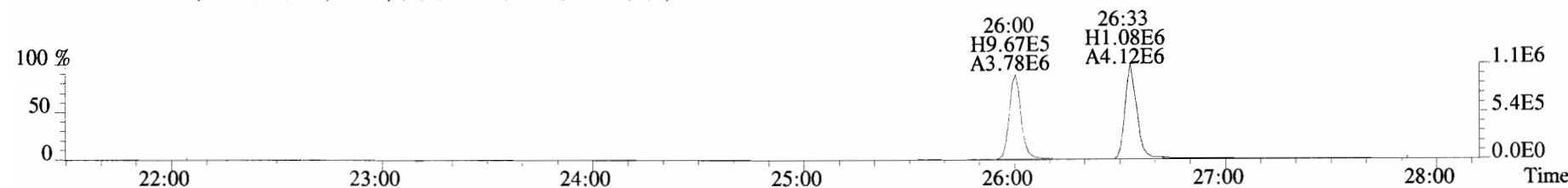
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



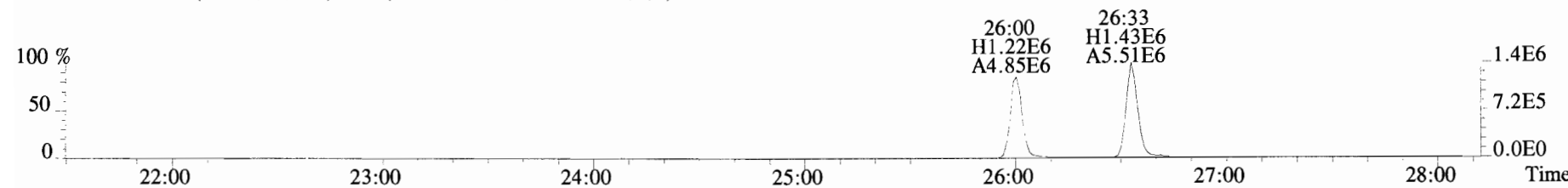
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



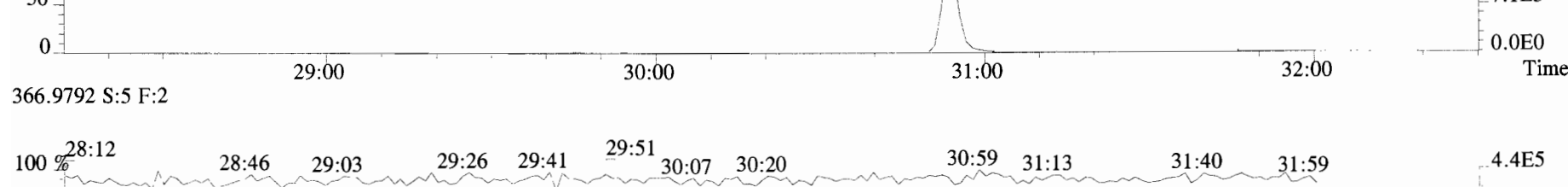
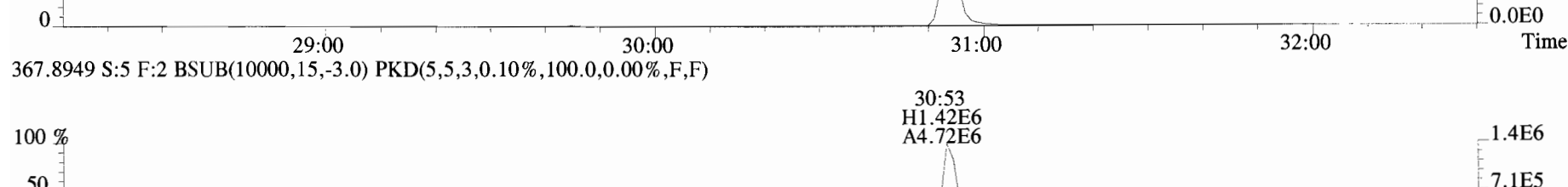
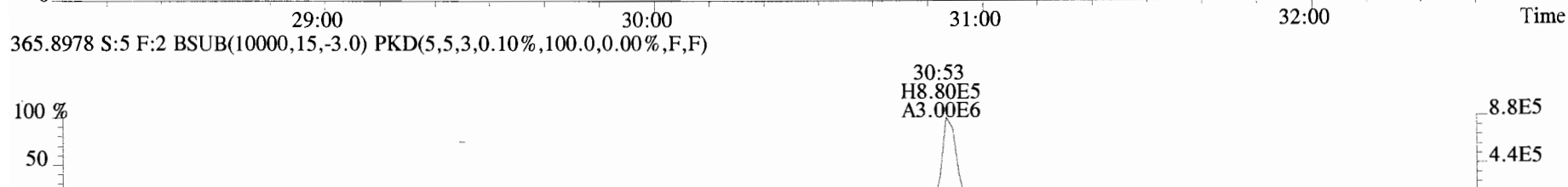
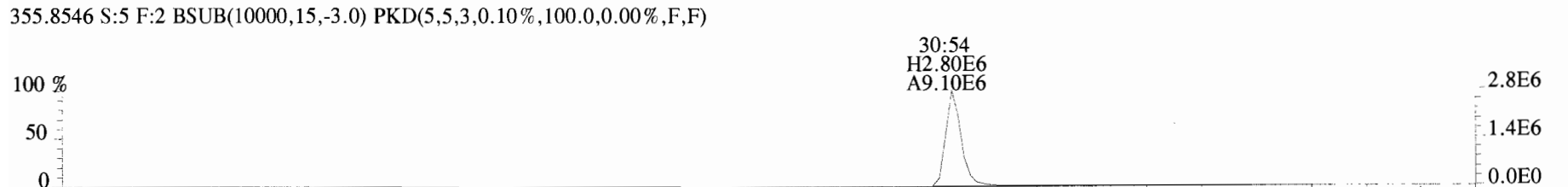
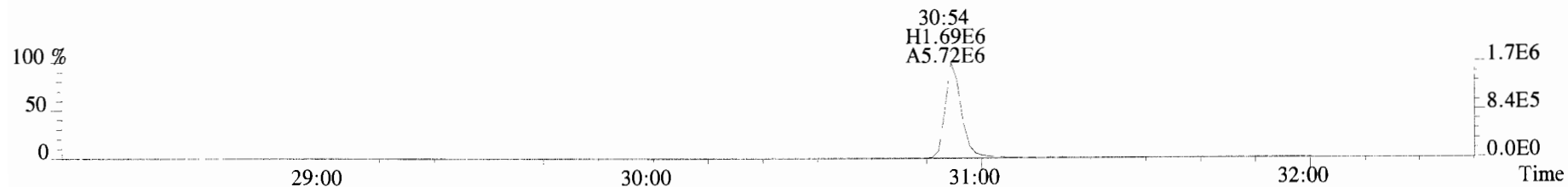
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



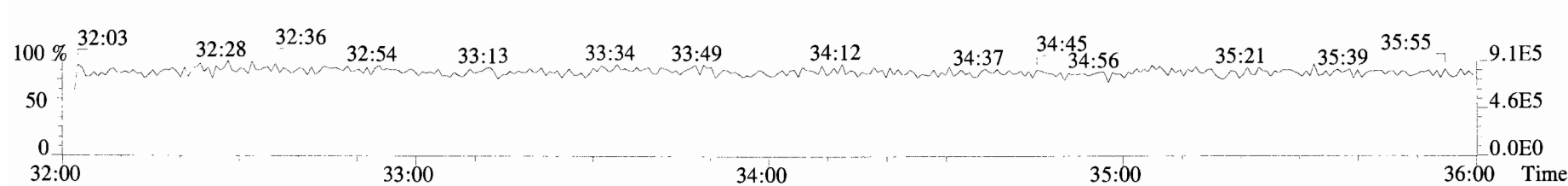
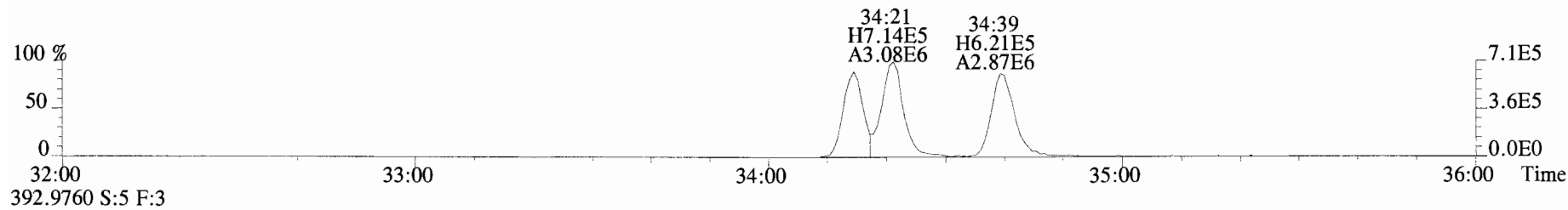
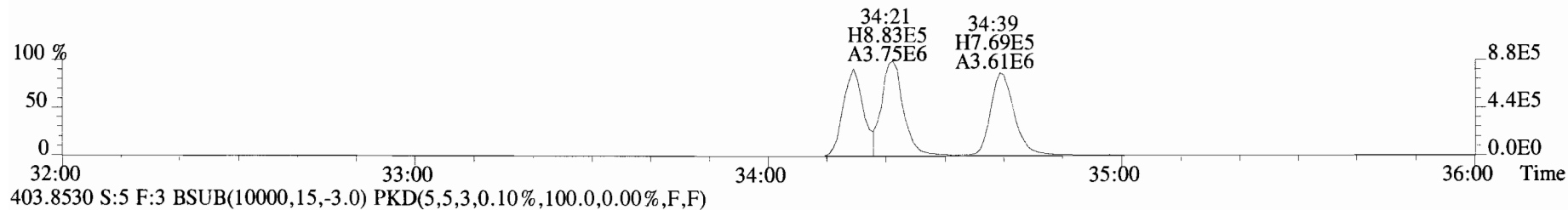
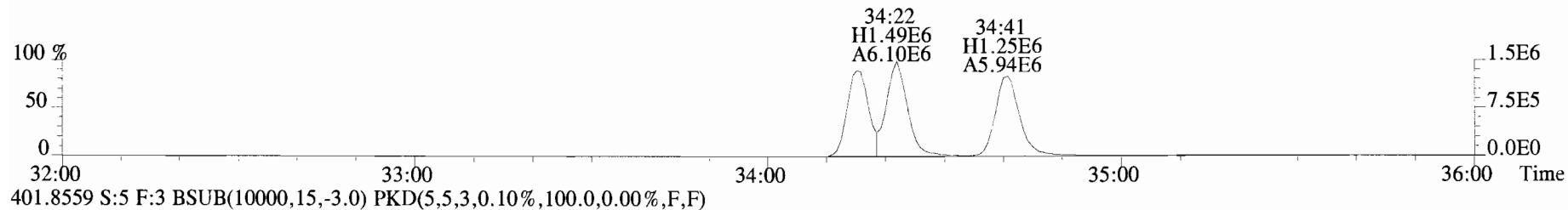
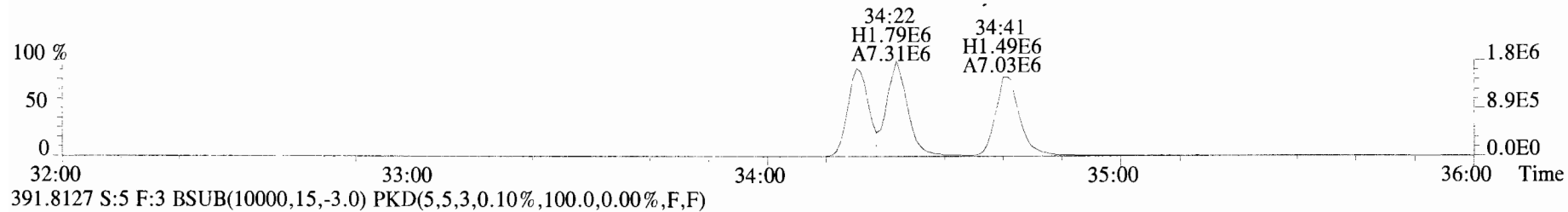
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



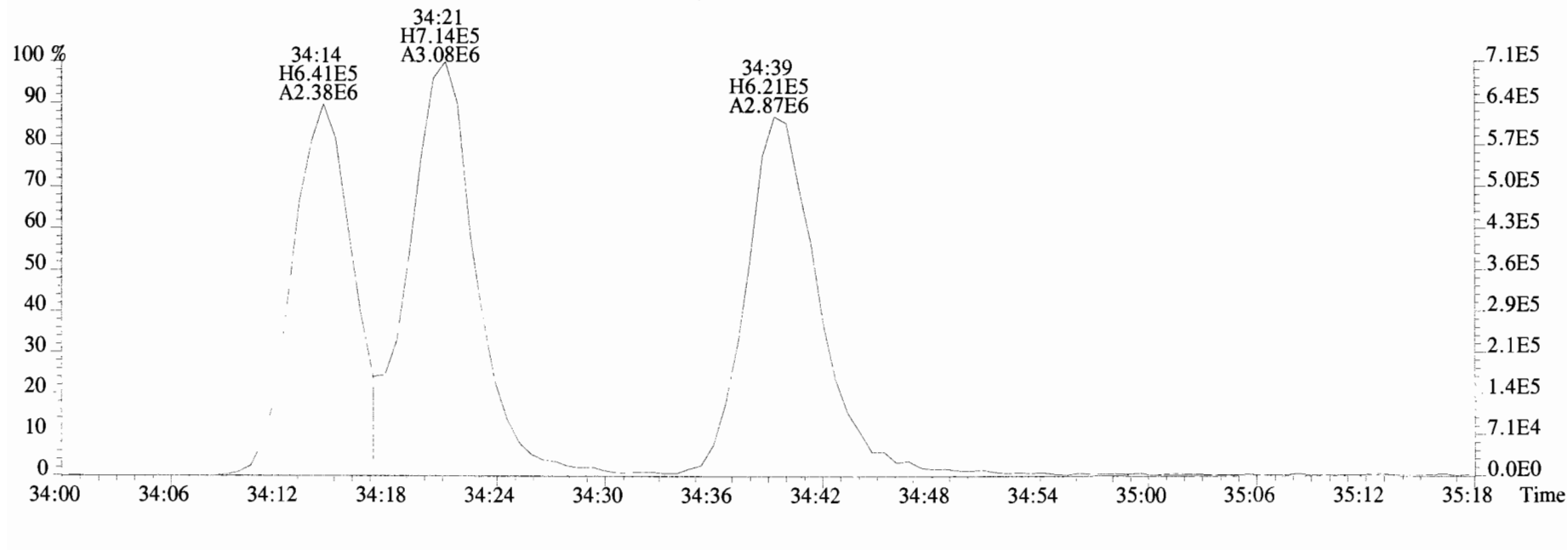
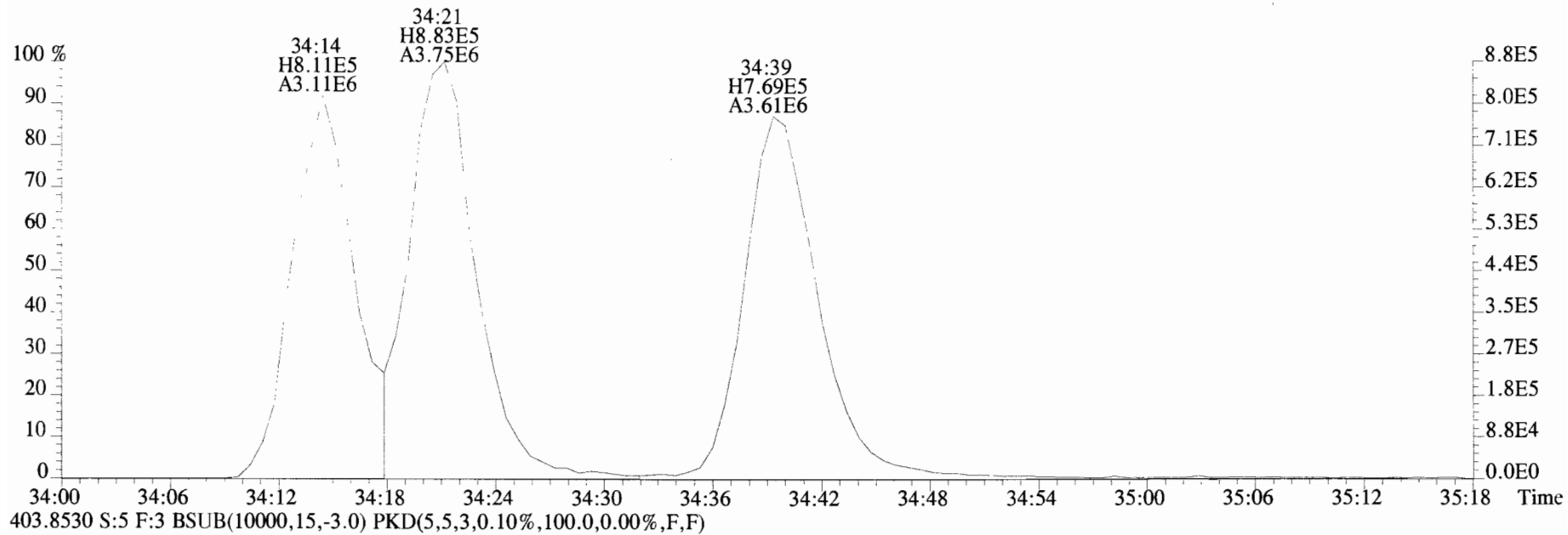
File:191009D1 #1-210 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191009D1 #1-355 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

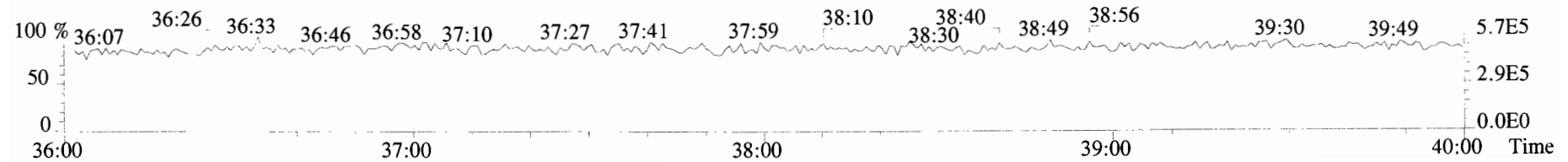
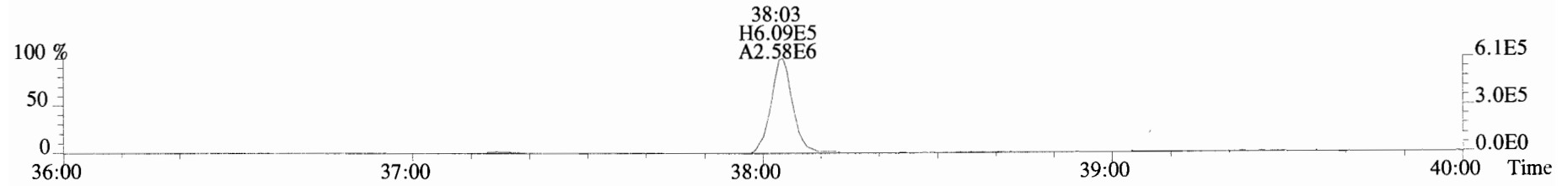
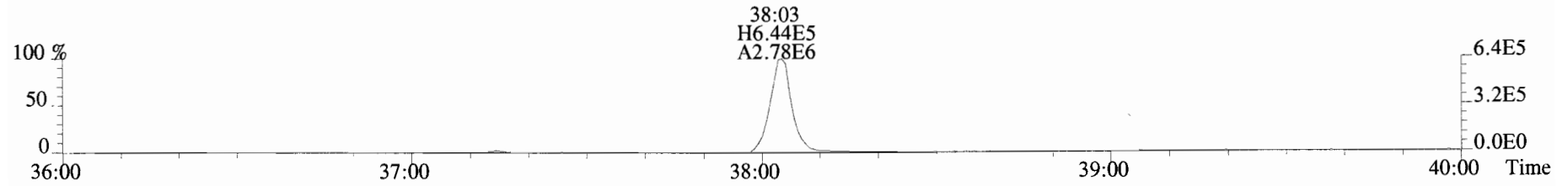
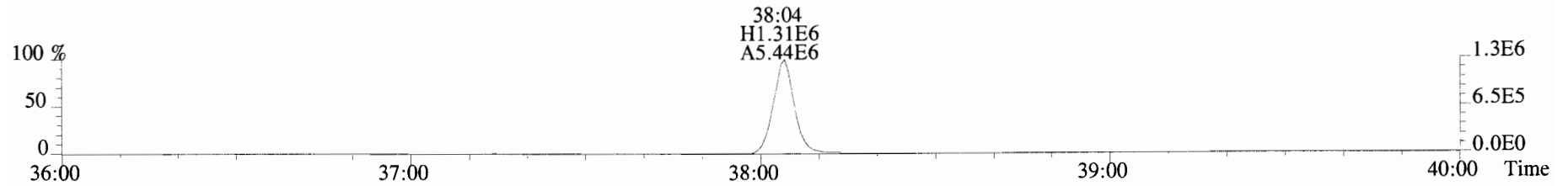
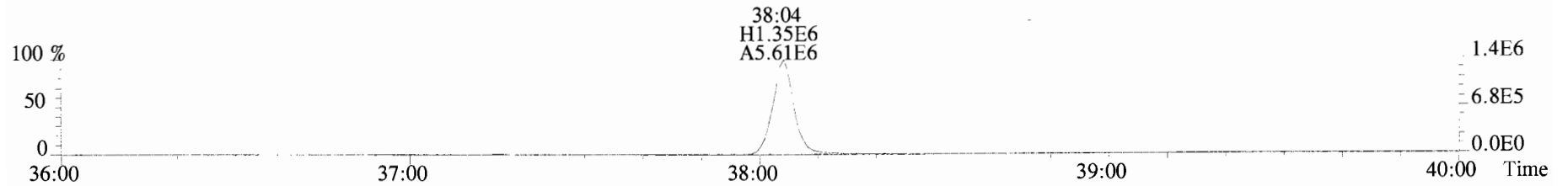


File:191009D1 #1-355 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

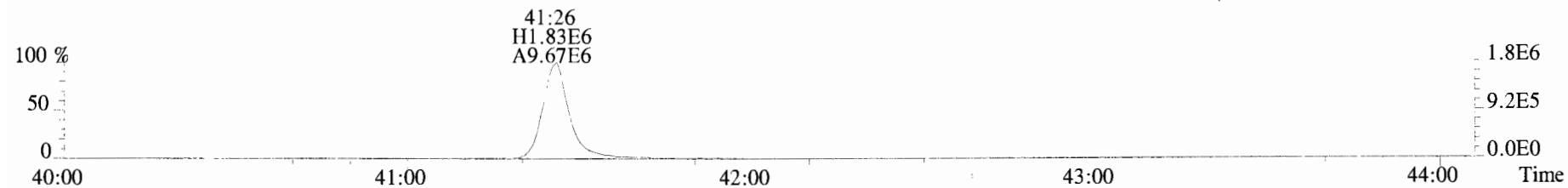




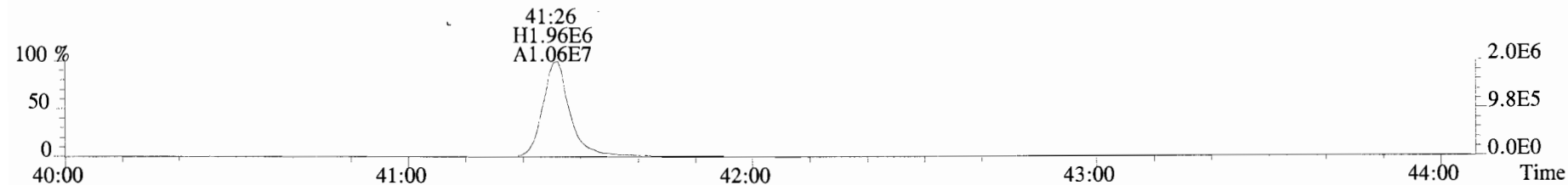
File:191009D1 #1-356 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



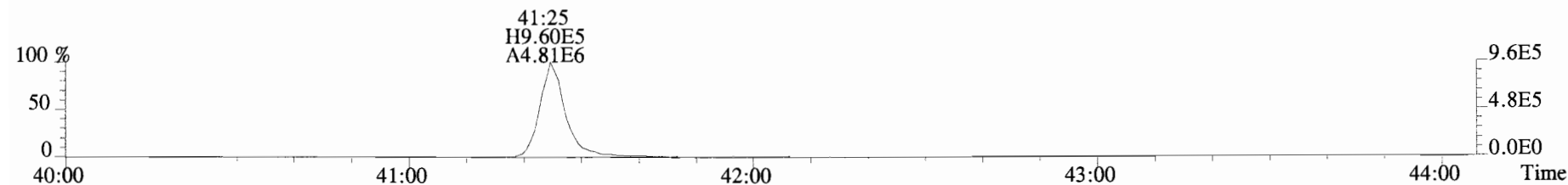
File:191009D1 #1-431 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



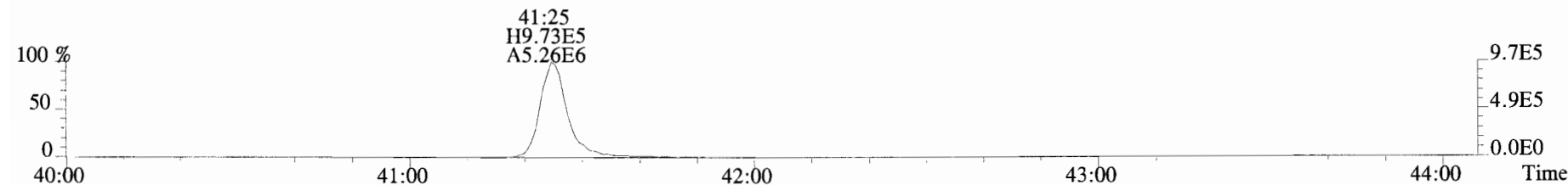
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



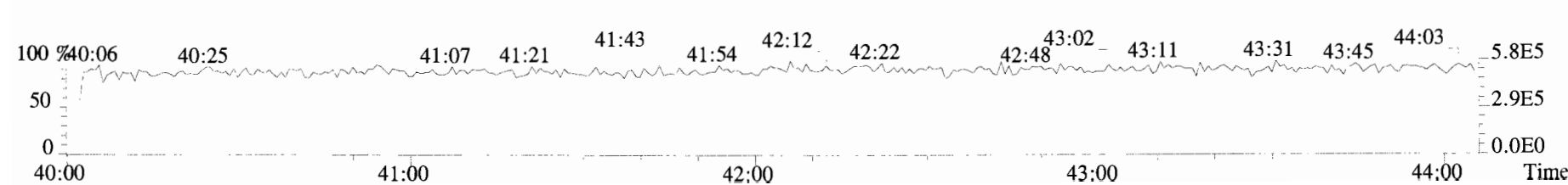
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



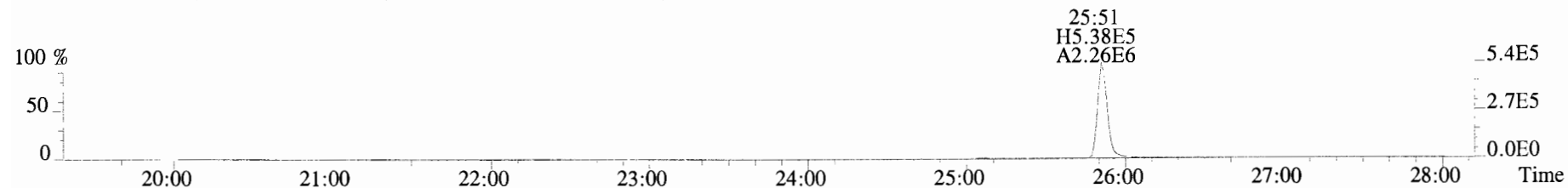
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



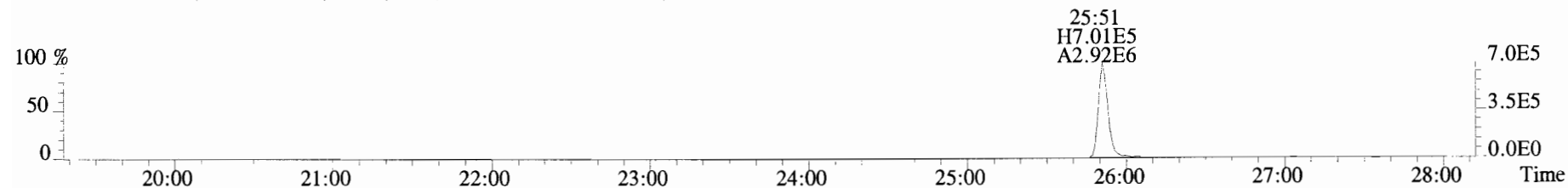
454.9728 S:5 F:5



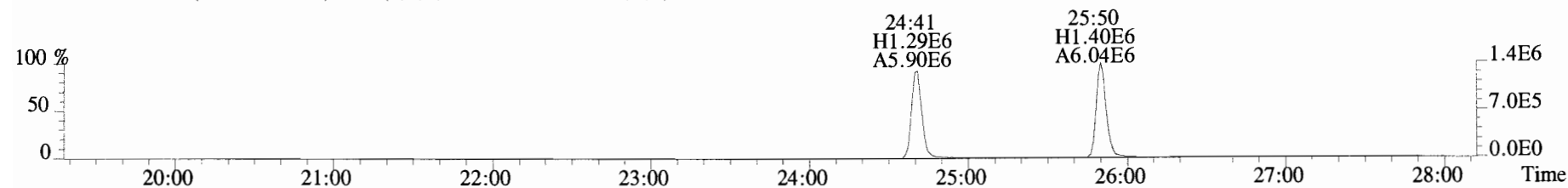
File: 191009D1 #1-514 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text: Vista\_Analytical\_Laboratory\_VG7 Text: ST191009D1-5 1613 CS4 19C2205 Exp: OCDD\_DB5  
 303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



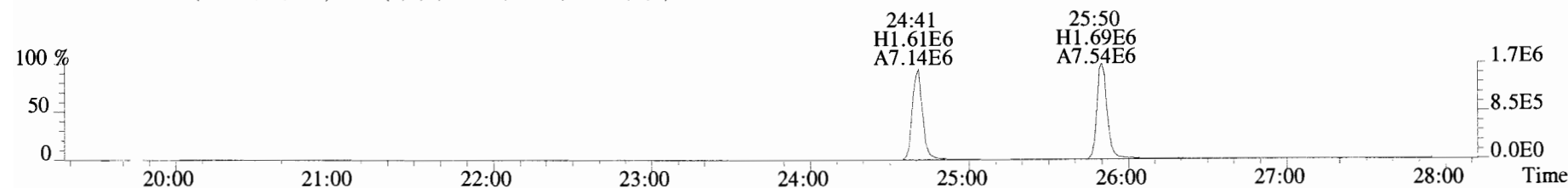
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



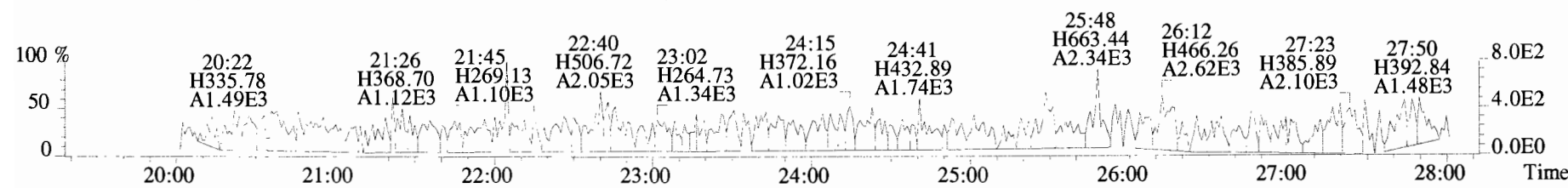
315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



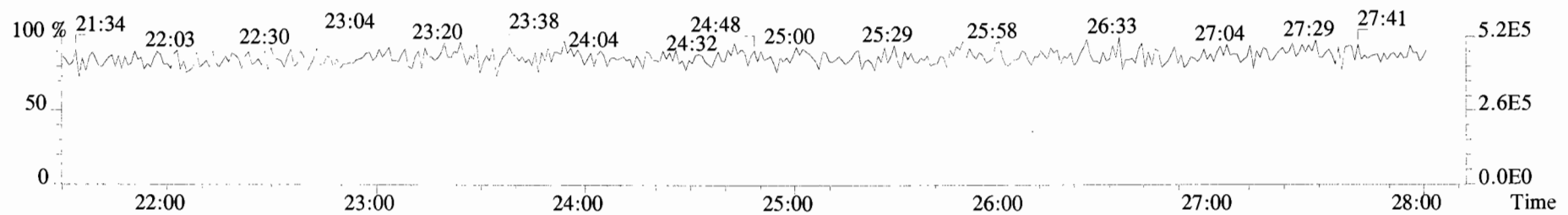
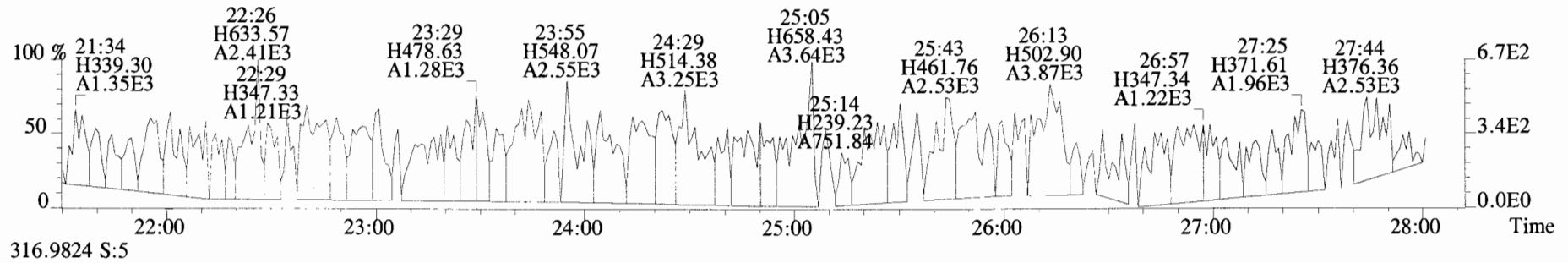
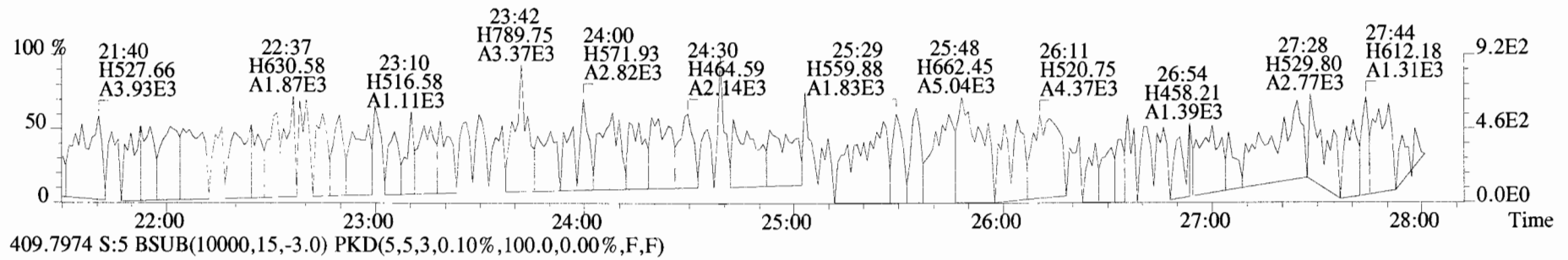
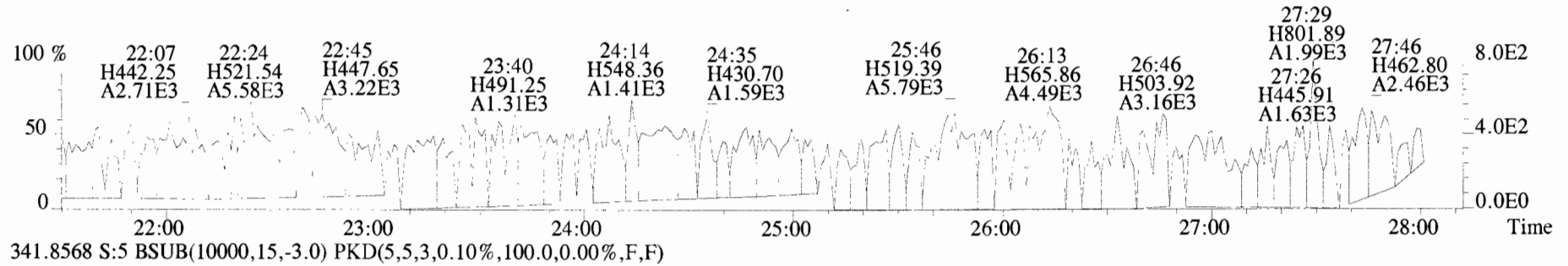
317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



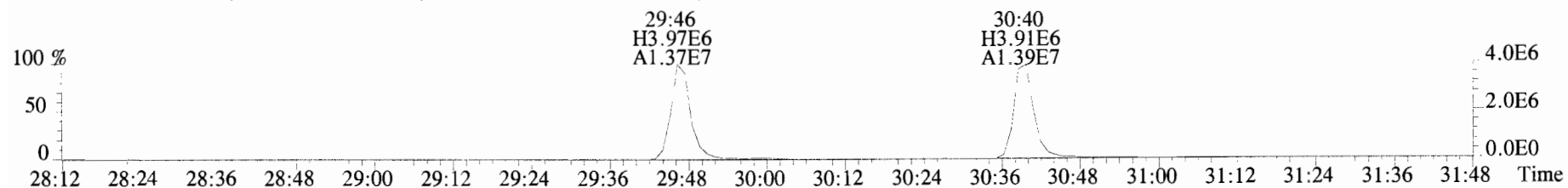
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



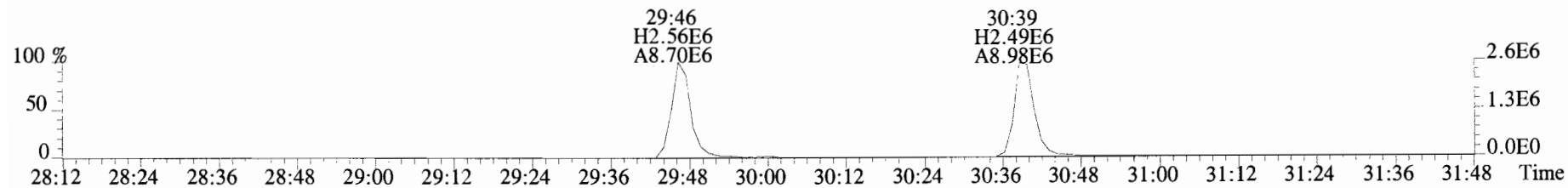
File:191009D1 #1-514 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



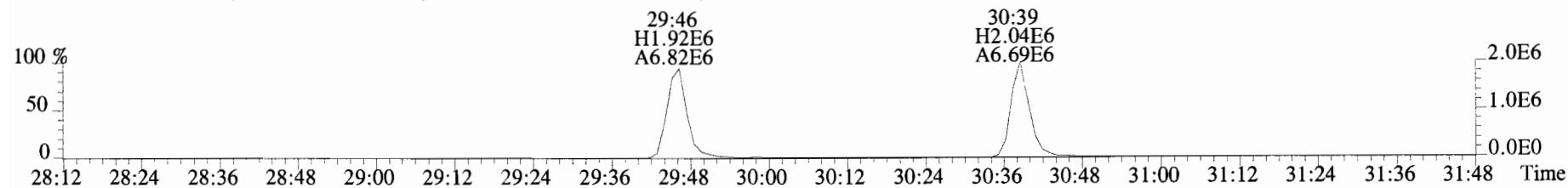
File:191009D1 #1-210 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



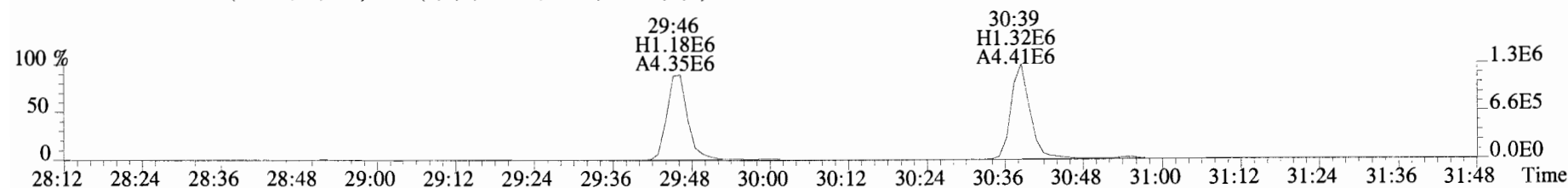
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



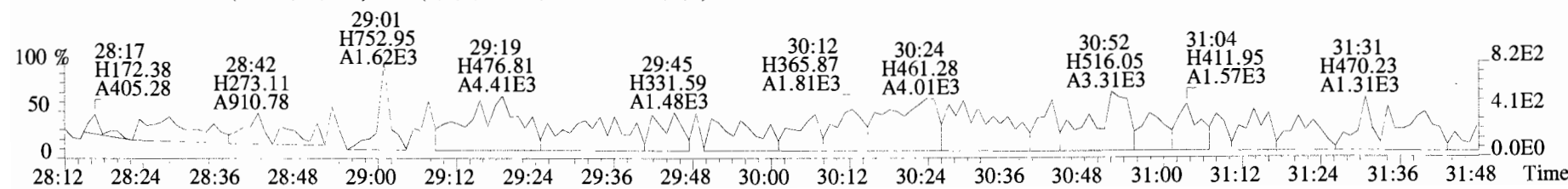
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



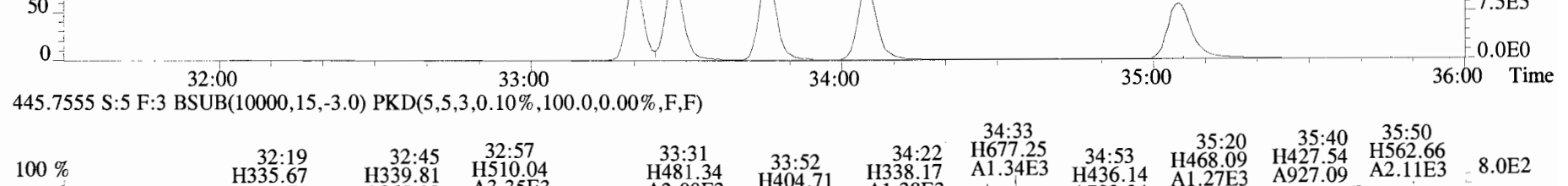
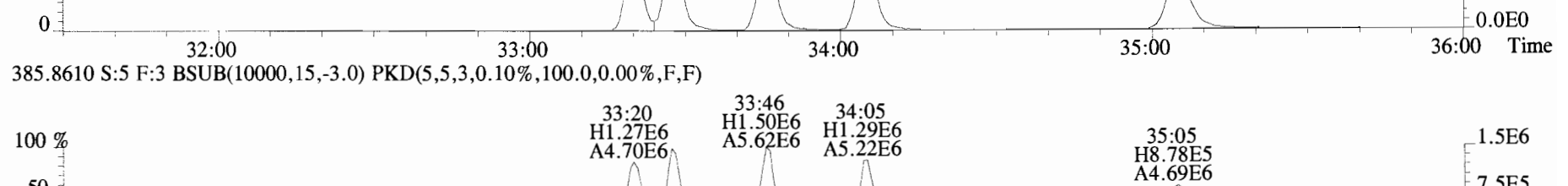
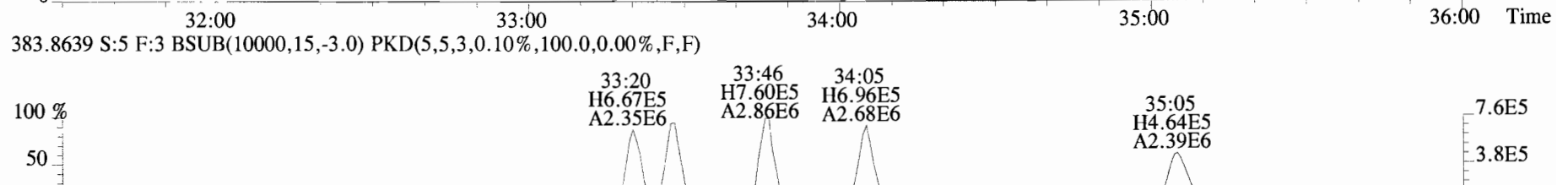
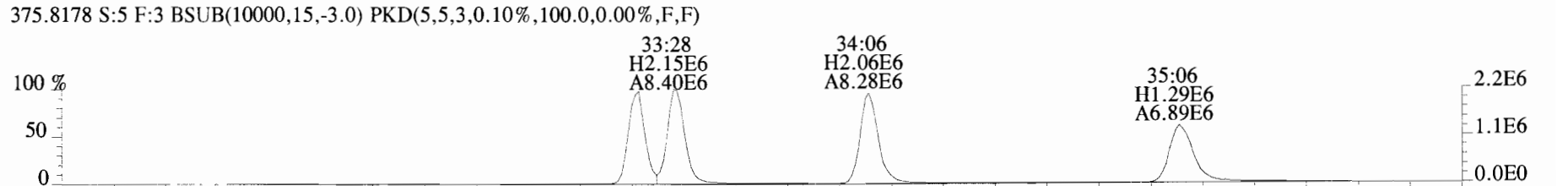
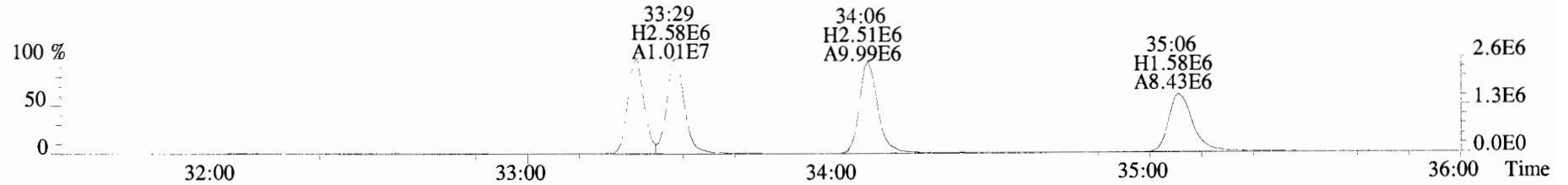
353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



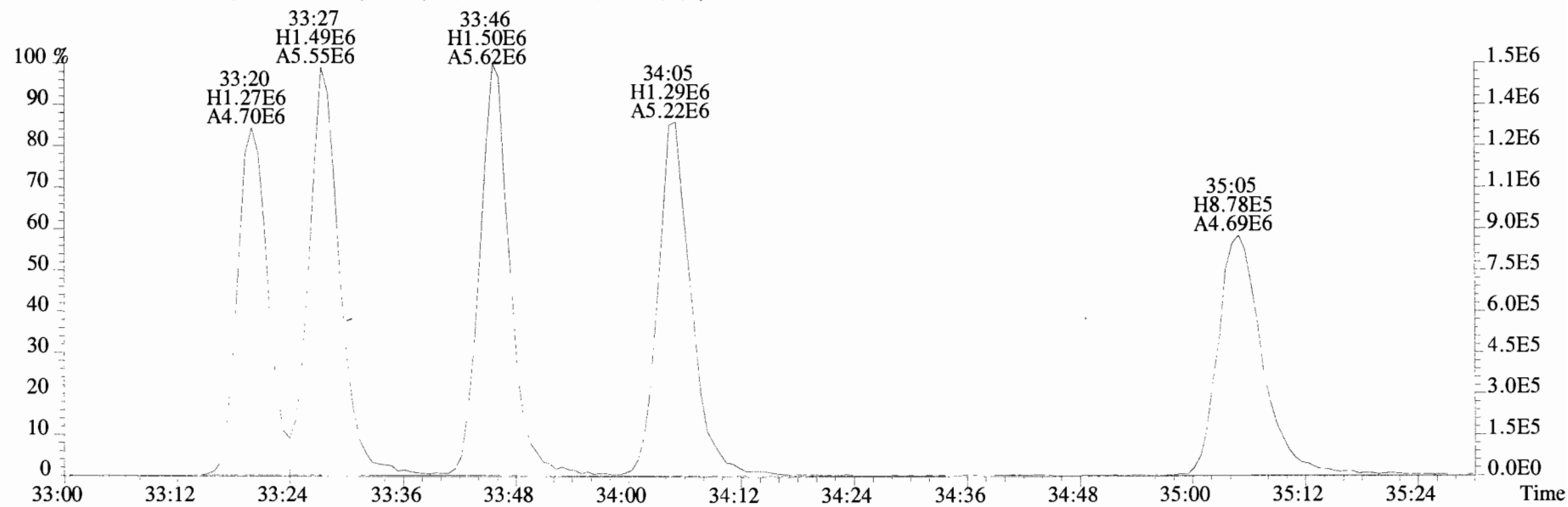
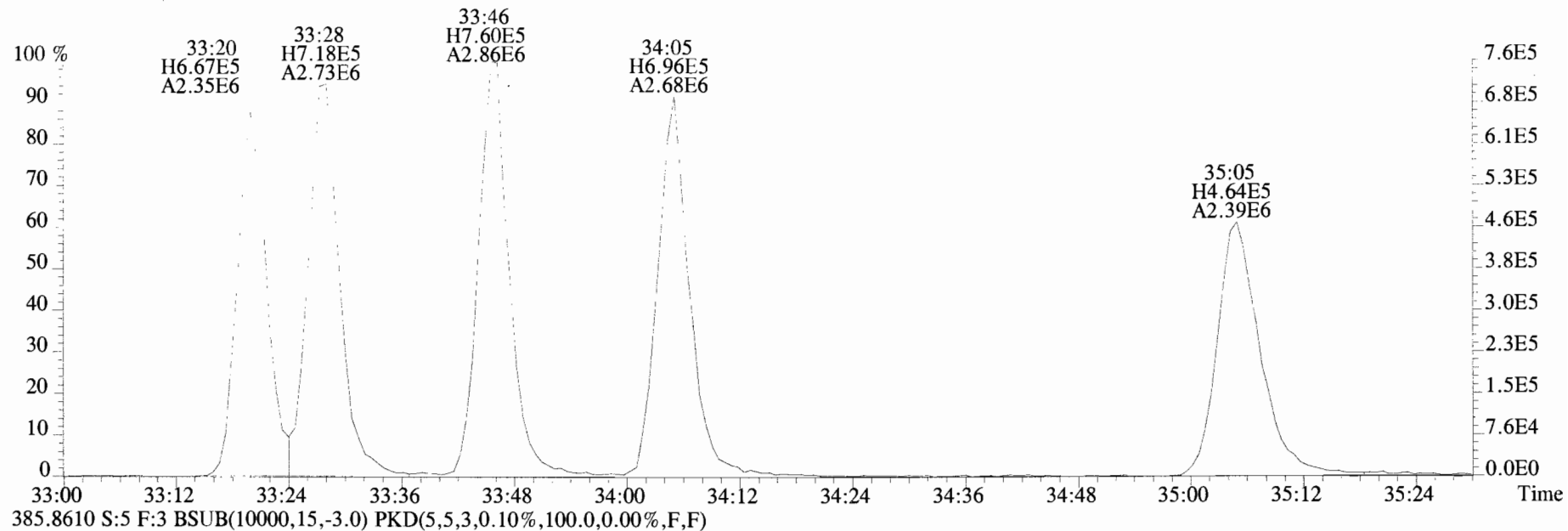
409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



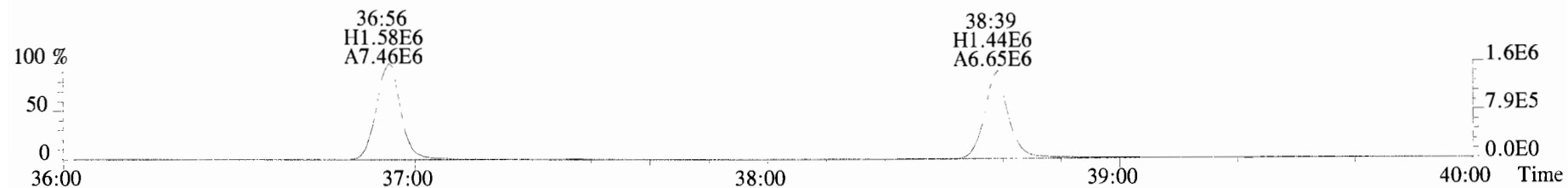
File:191009D1 #1-355 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
 373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



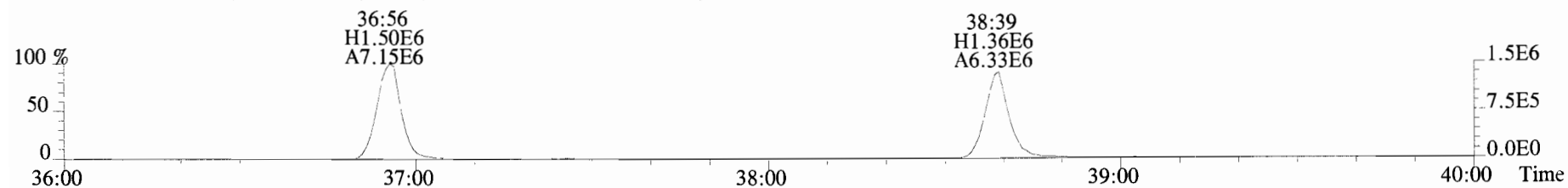
File: 191009D1 #1-355 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG7 Text: ST191009D1-5 1613 CS4 19C2205 Exp: OCDD\_DB5  
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



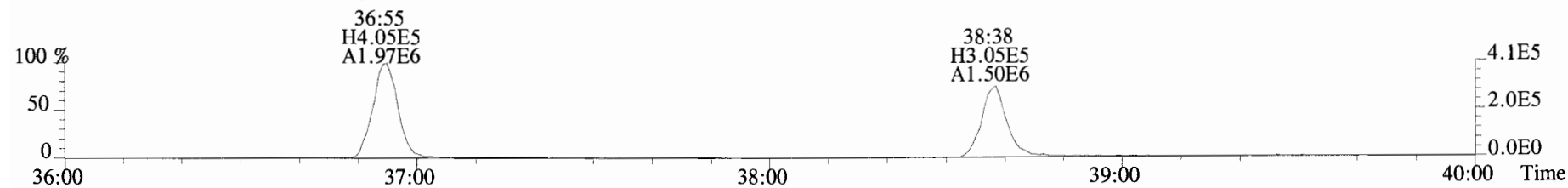
File:191009D1 #1-356 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



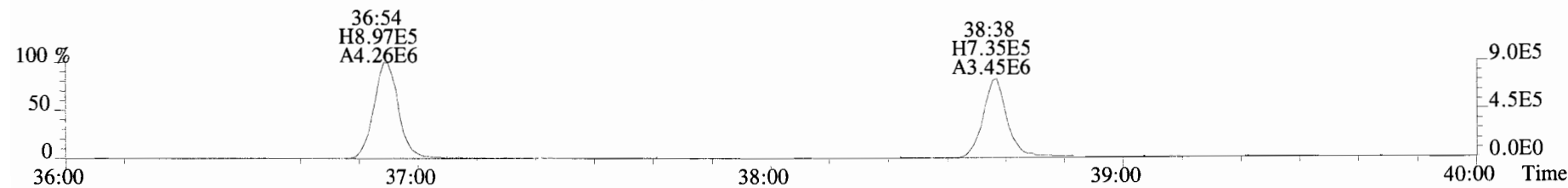
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



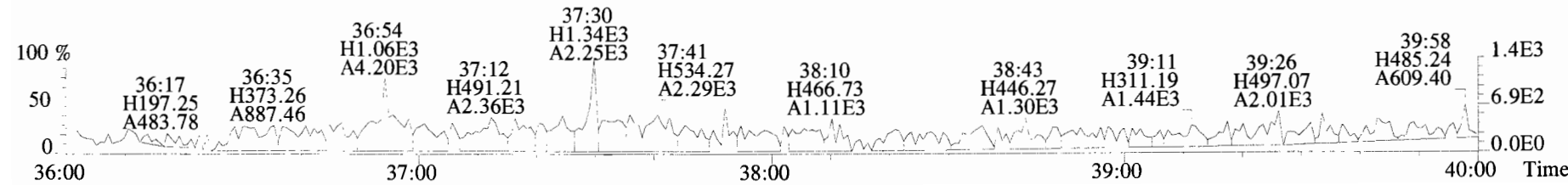
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

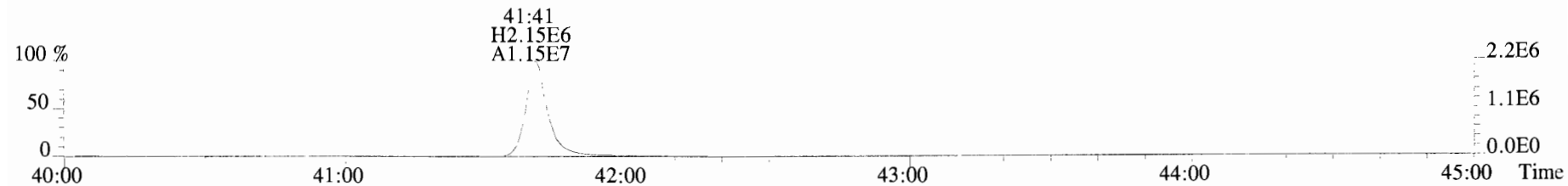


479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

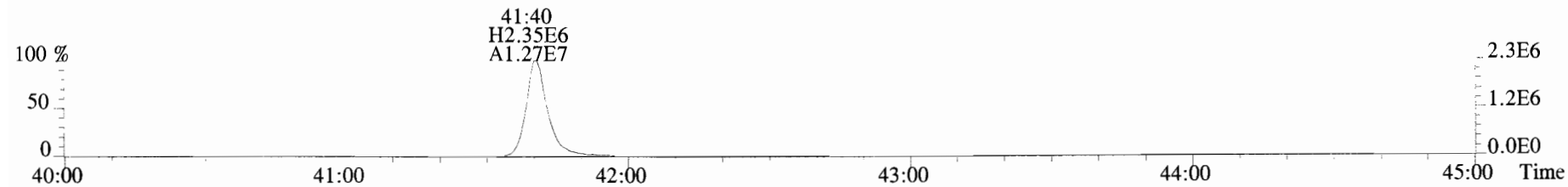




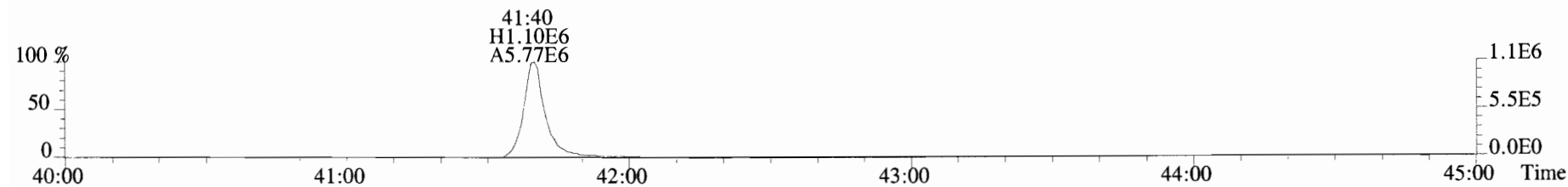
File:191009D1 #1-431 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



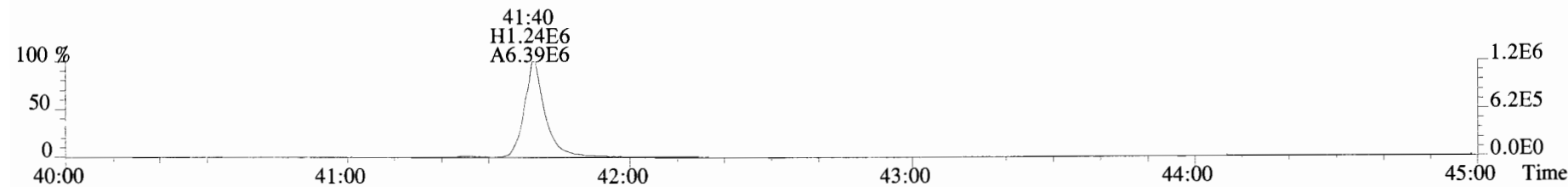
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



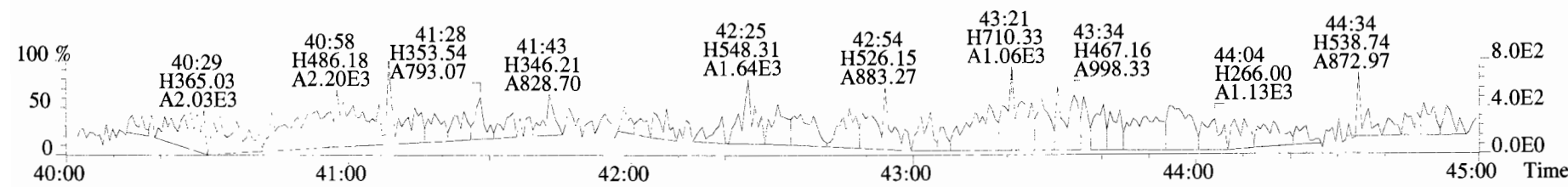
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



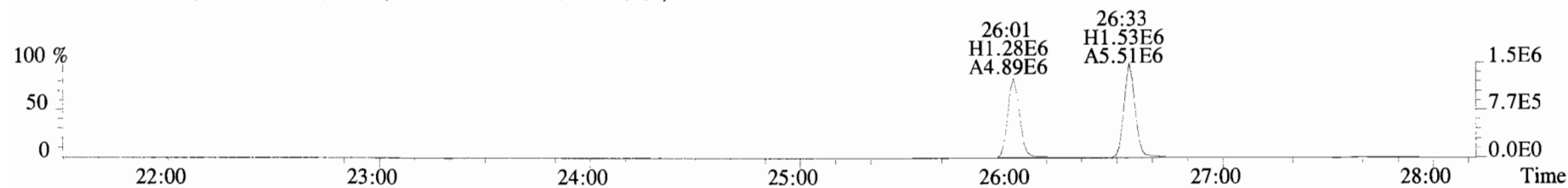
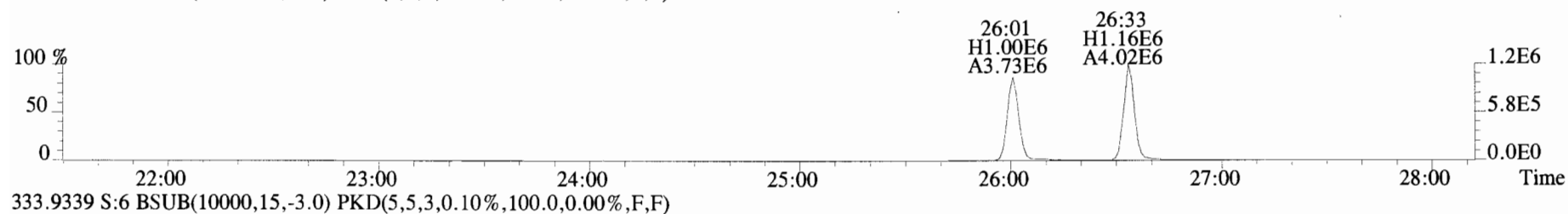
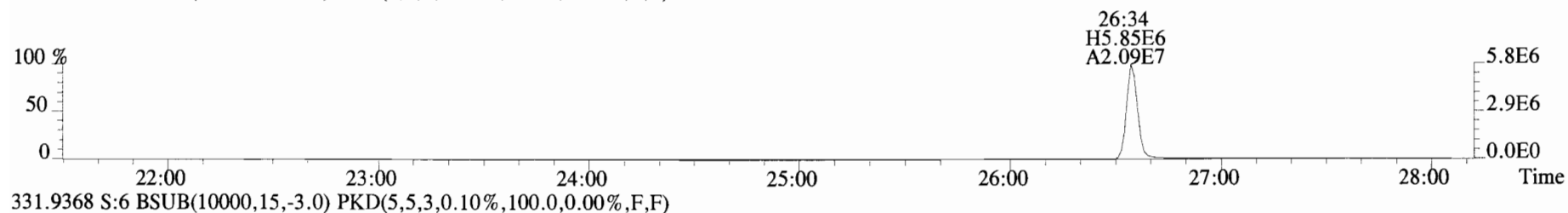
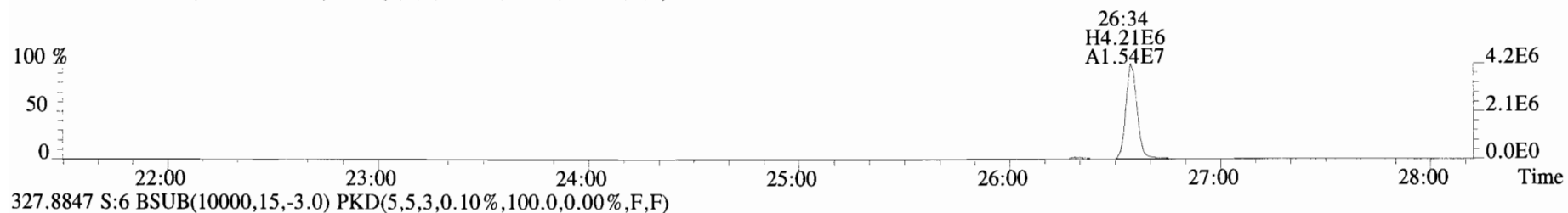
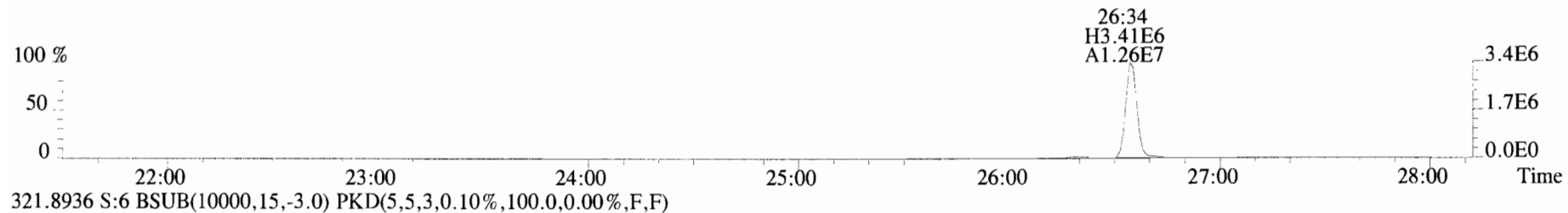
455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



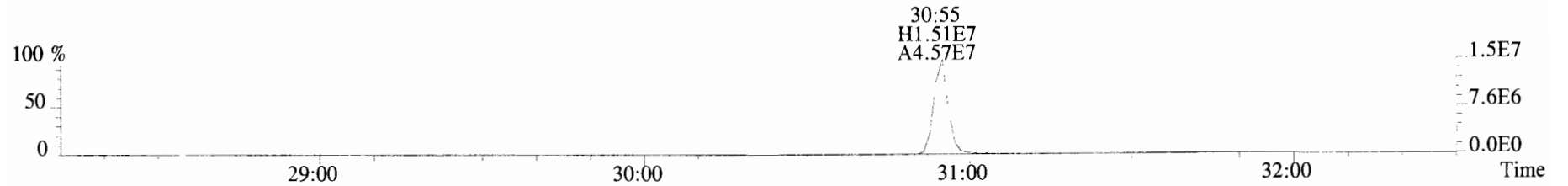
513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



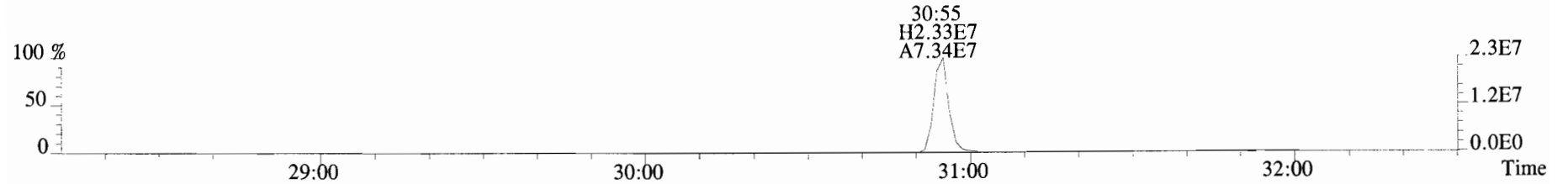
File:191009D1 #1-513 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



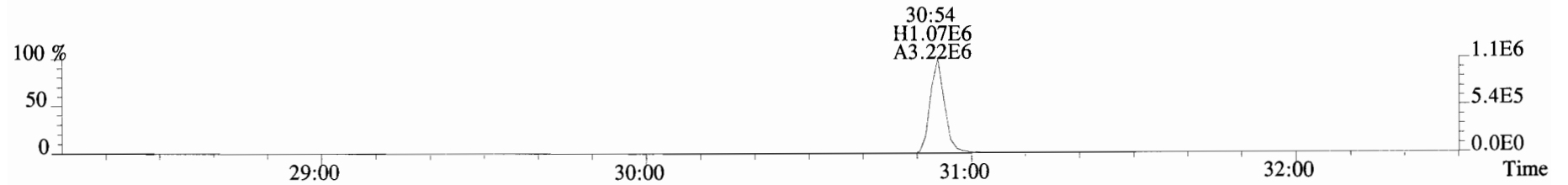
File:191009D1 #1-211 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



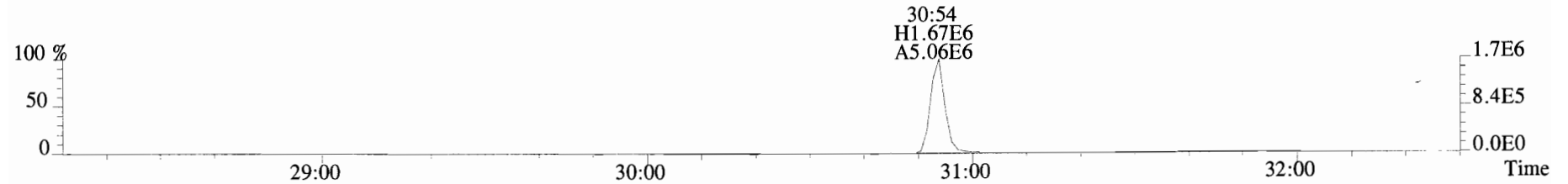
355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



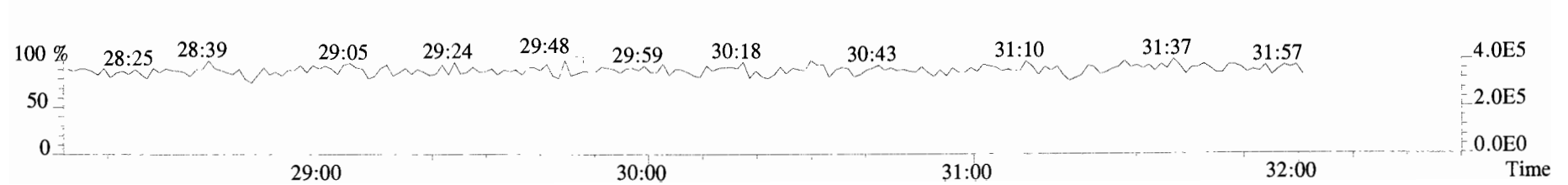
365.8978 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



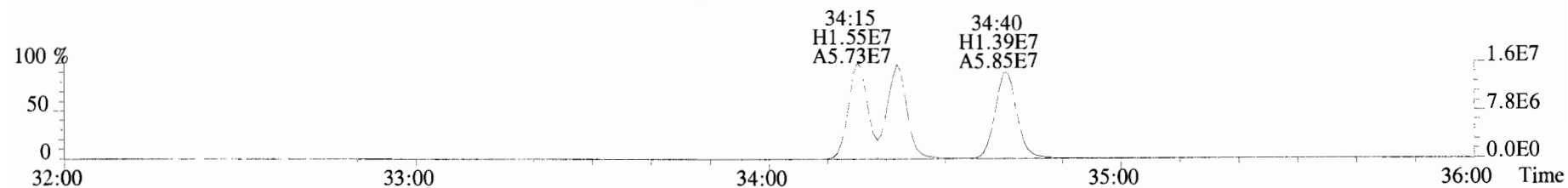
367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



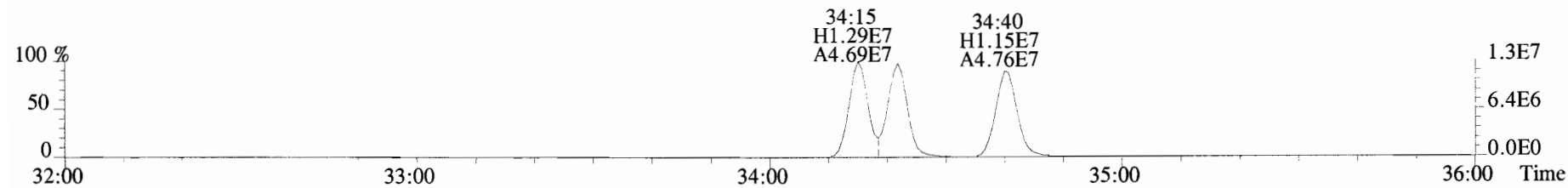
366.9792 S:6 F:2



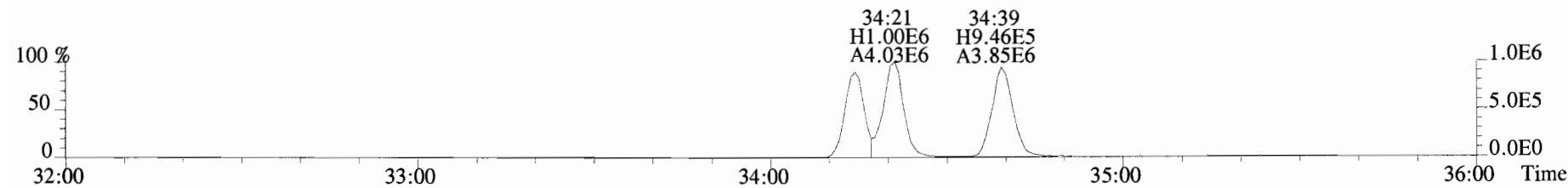
File:191009D1 #1-354 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



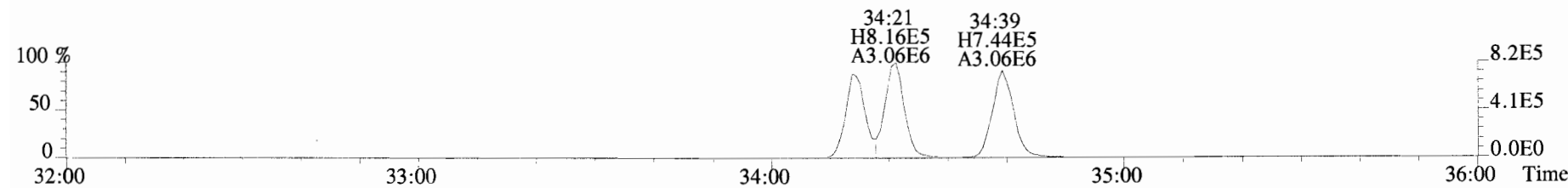
391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



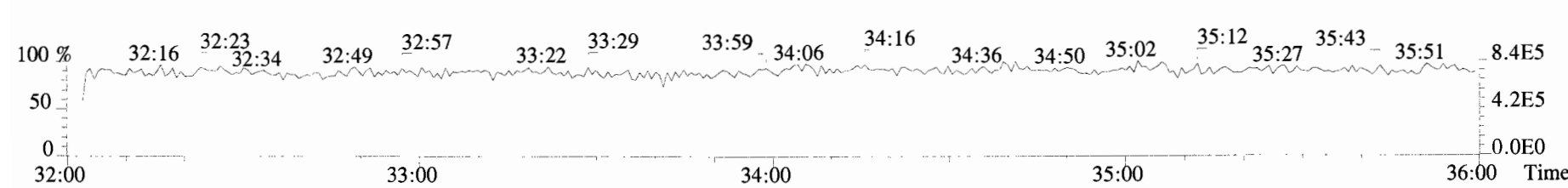
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



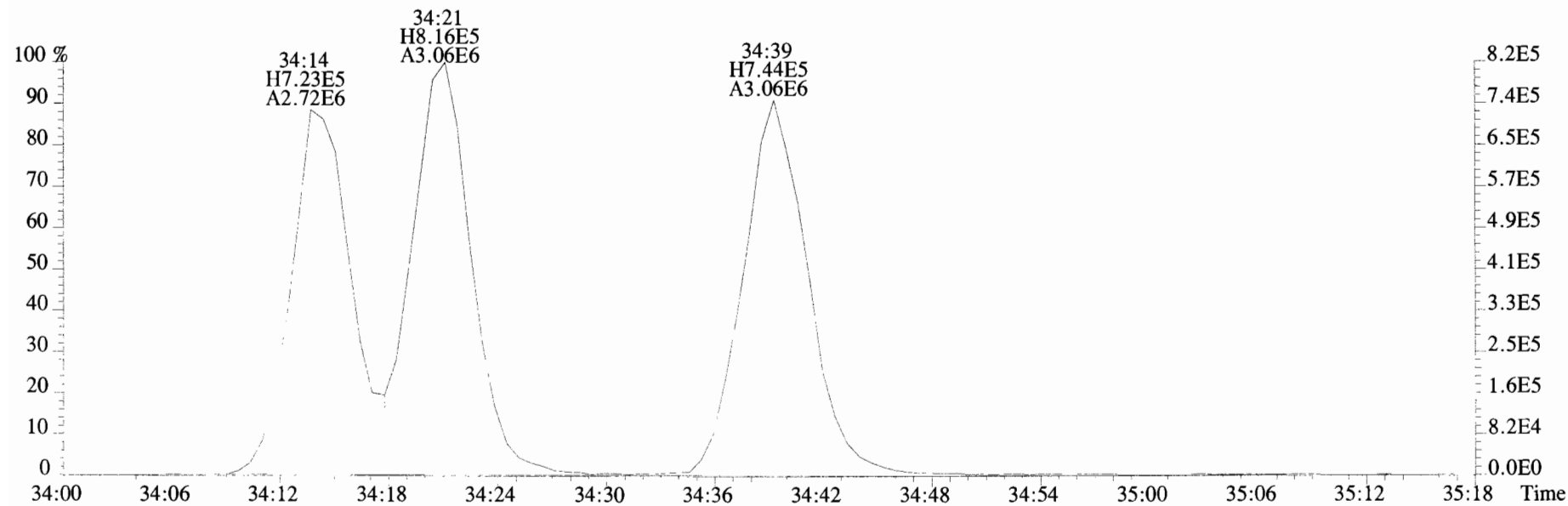
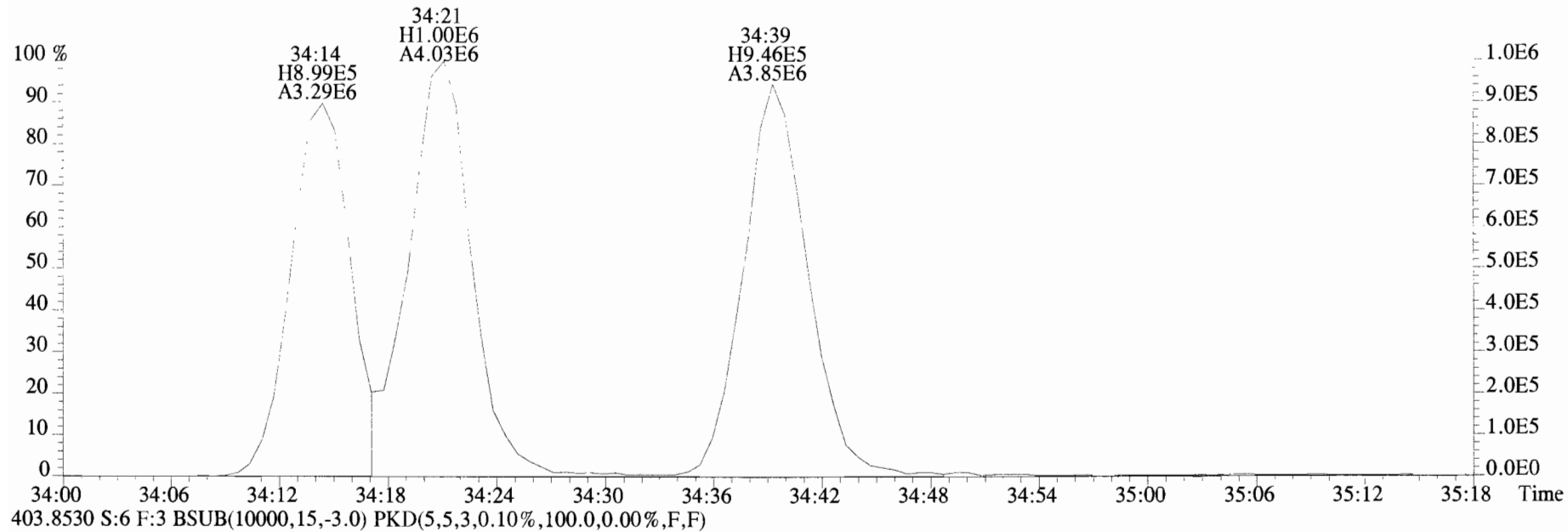
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



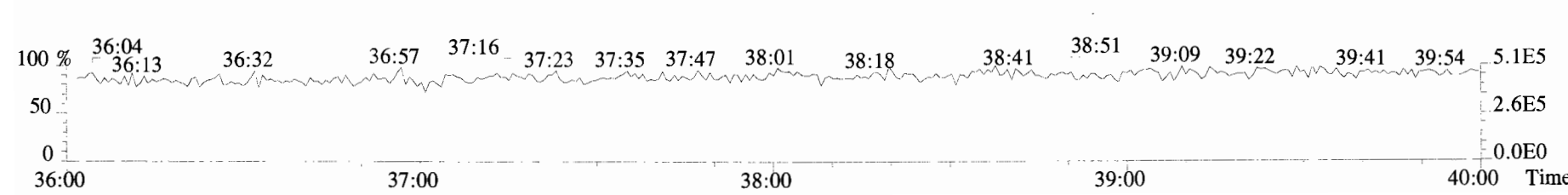
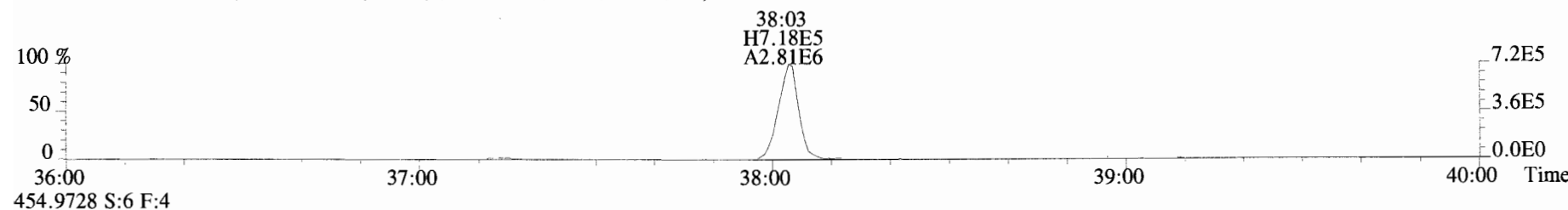
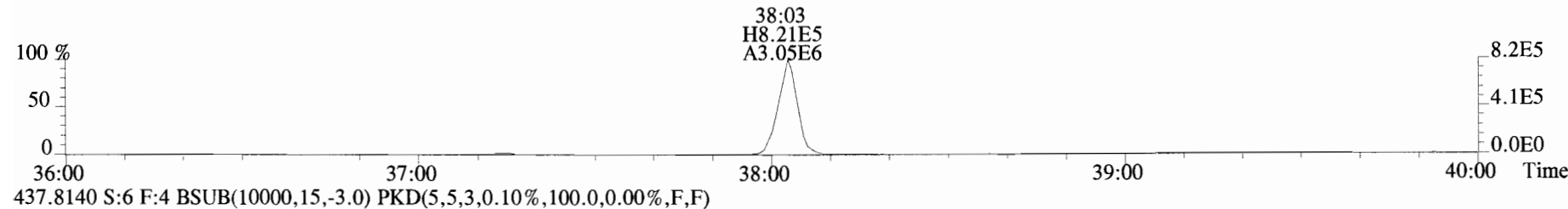
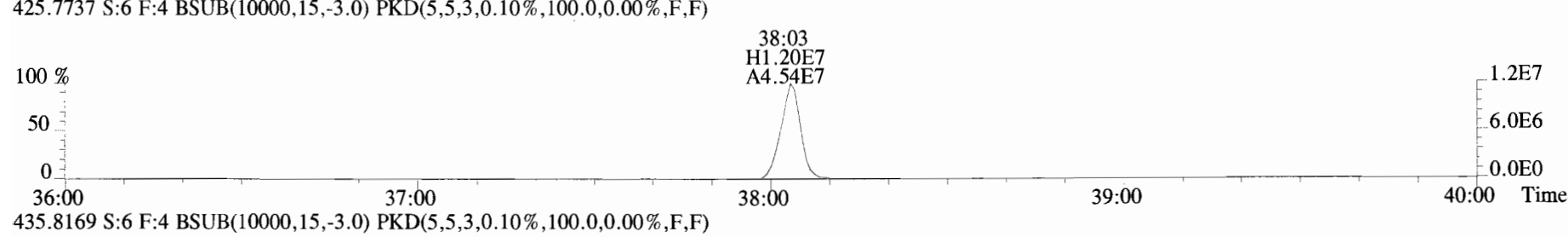
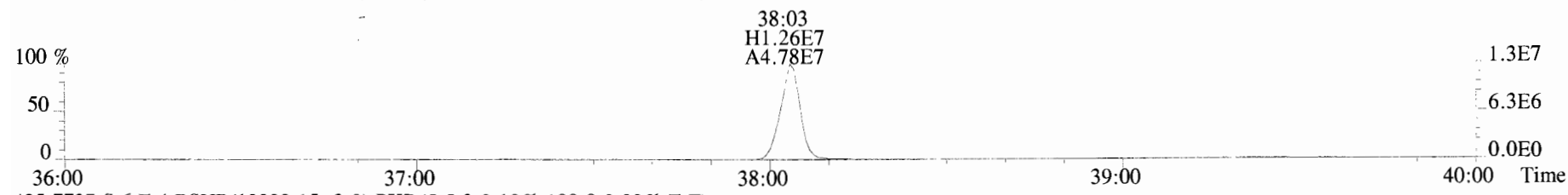
392.9760 S:6 F:3



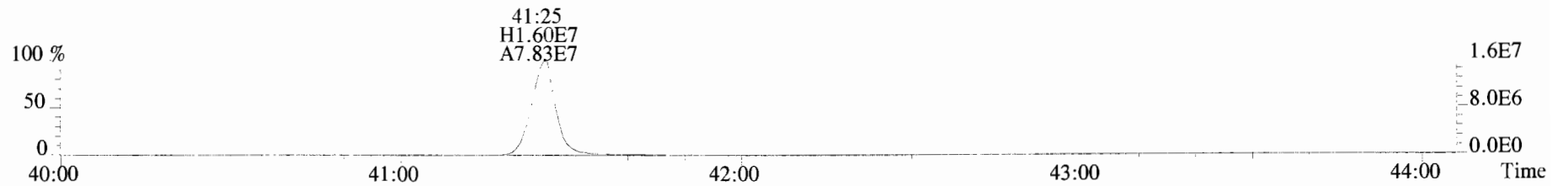
File:191009D1 #1-354 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



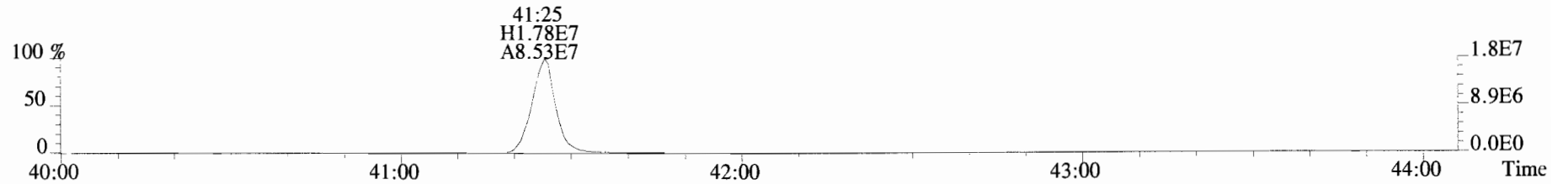
File:191009D1 #1-356 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



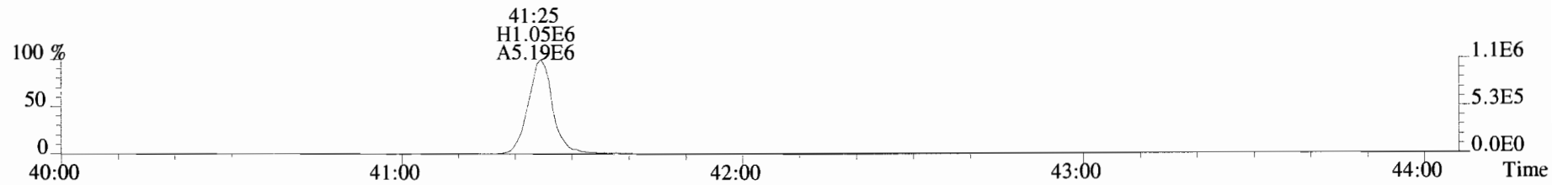
File:191009D1 #1-431 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



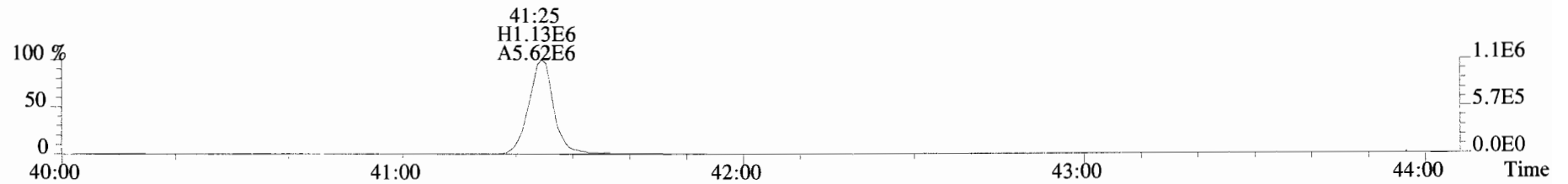
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



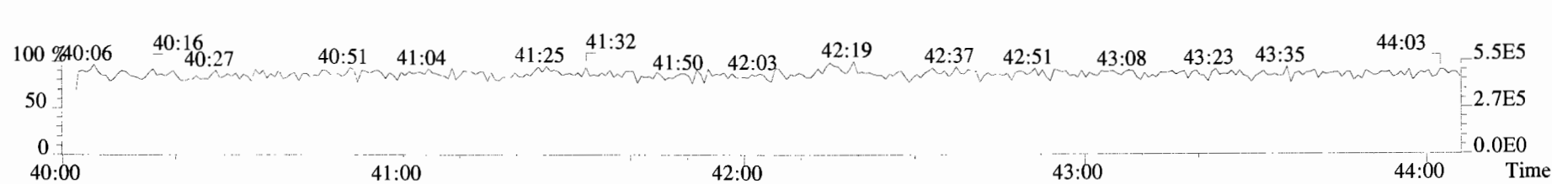
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



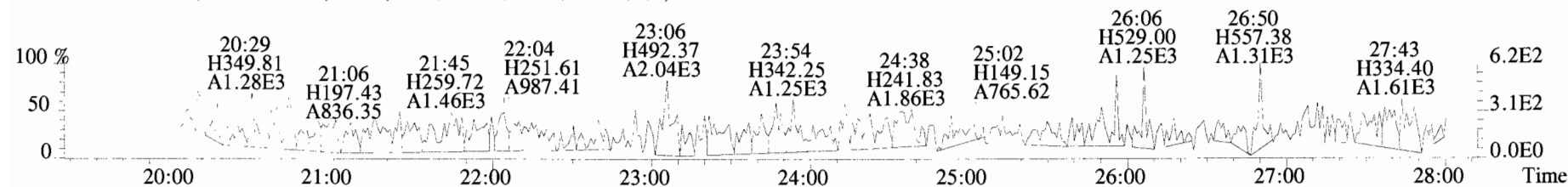
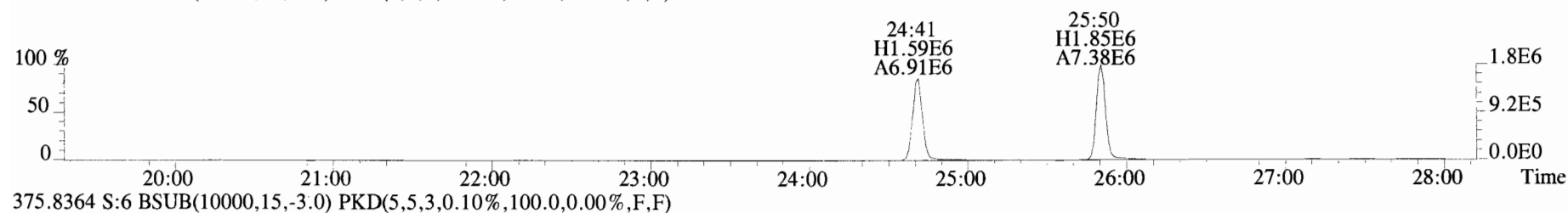
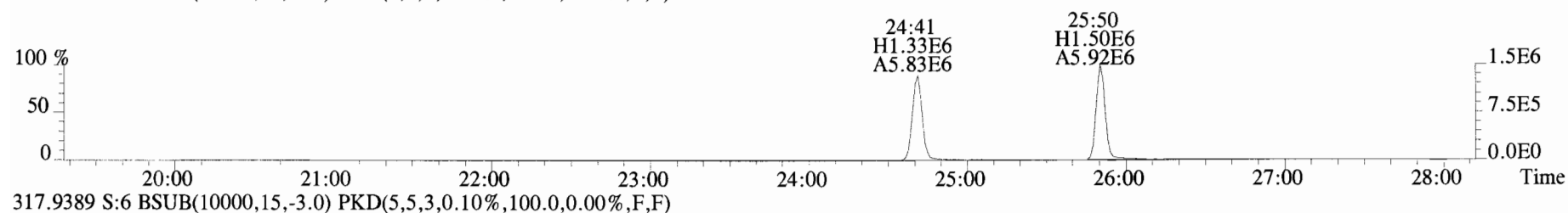
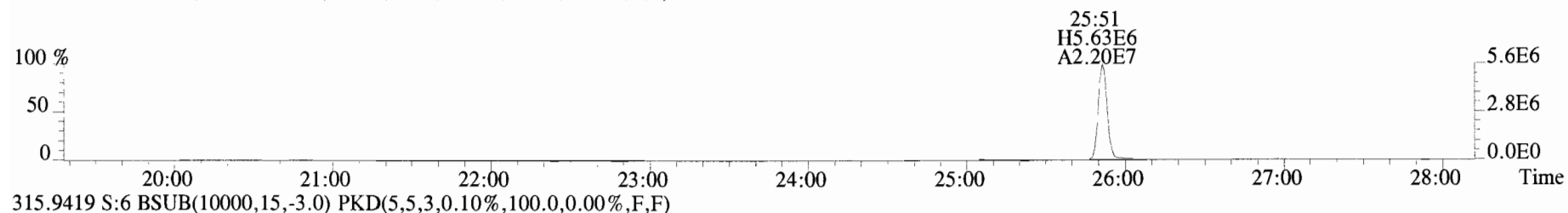
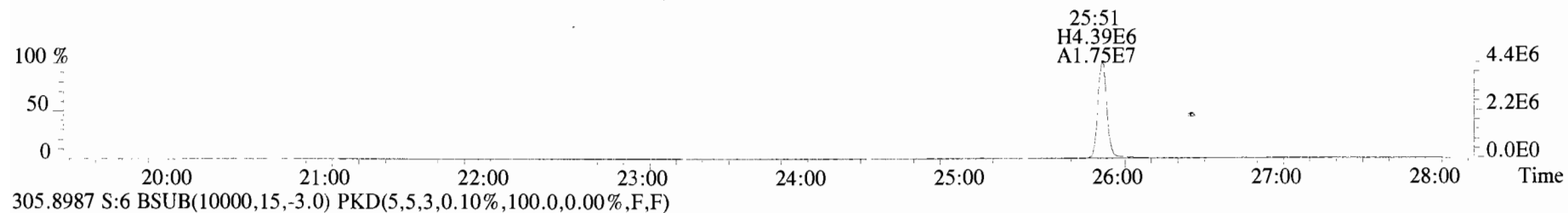
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



454.9728 S:6 F:5

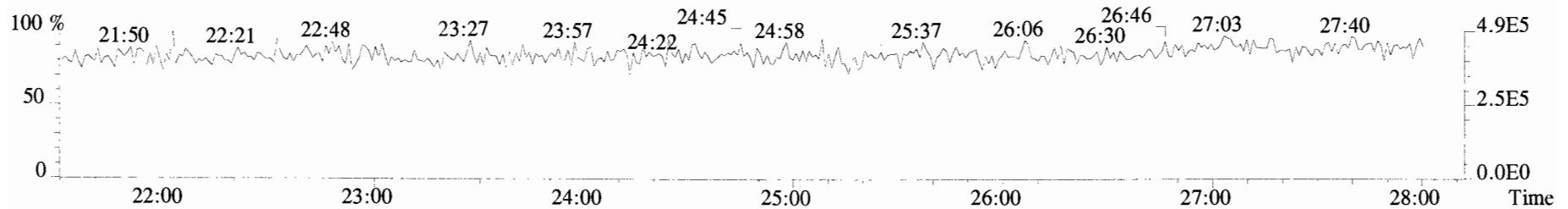
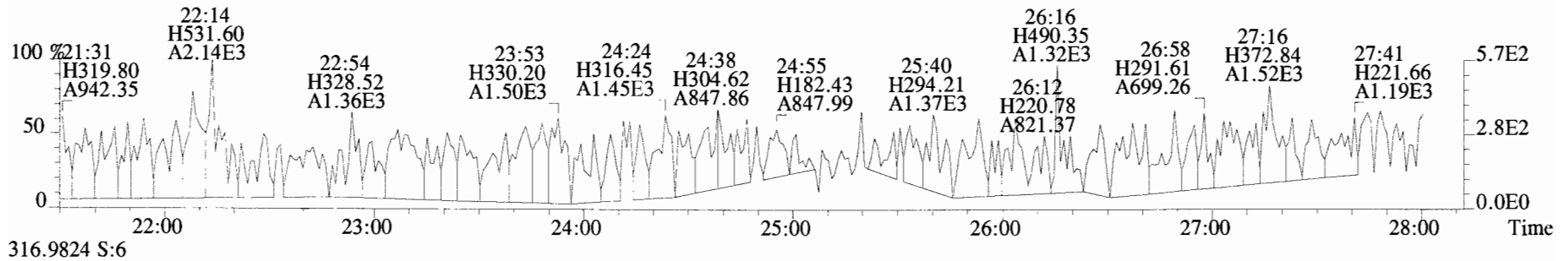
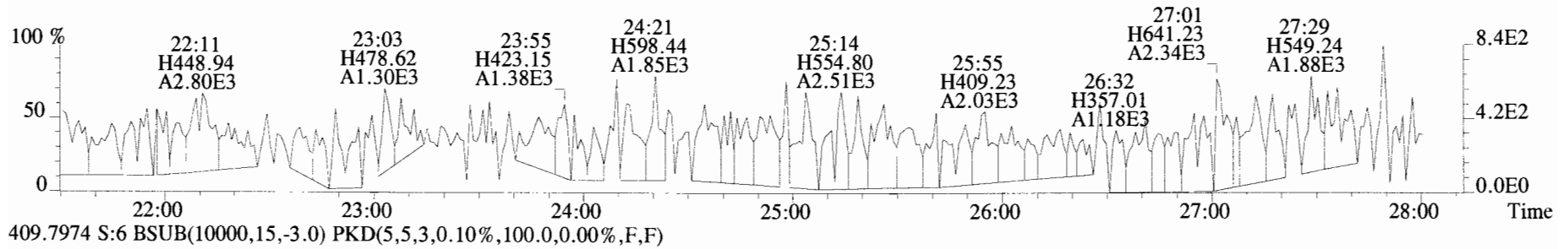
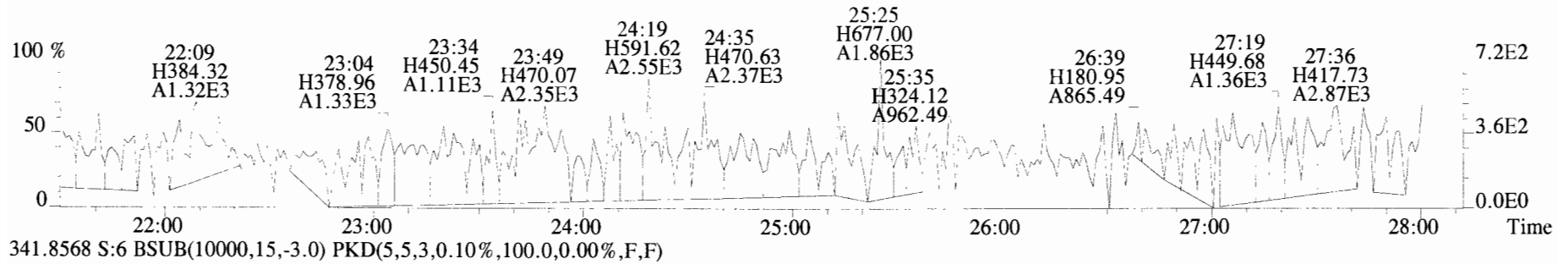


File:191009D1 #1-513 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
 303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

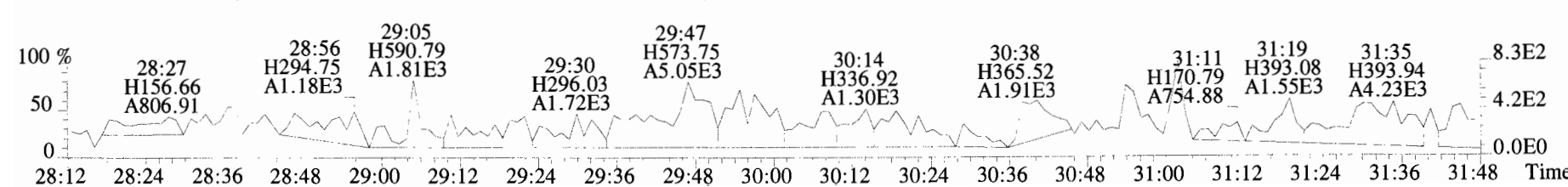
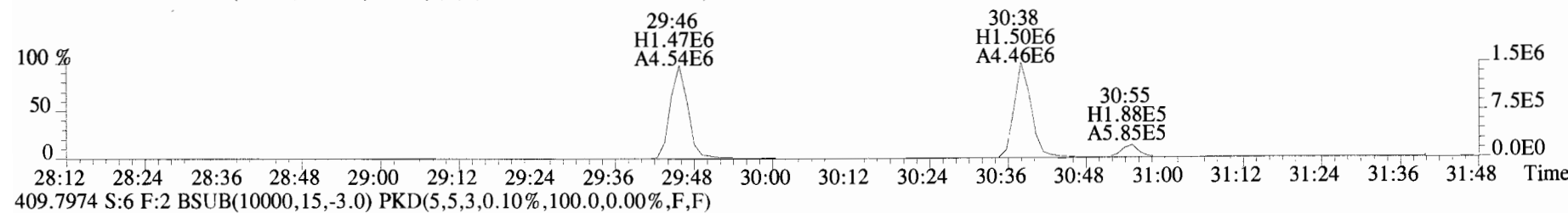
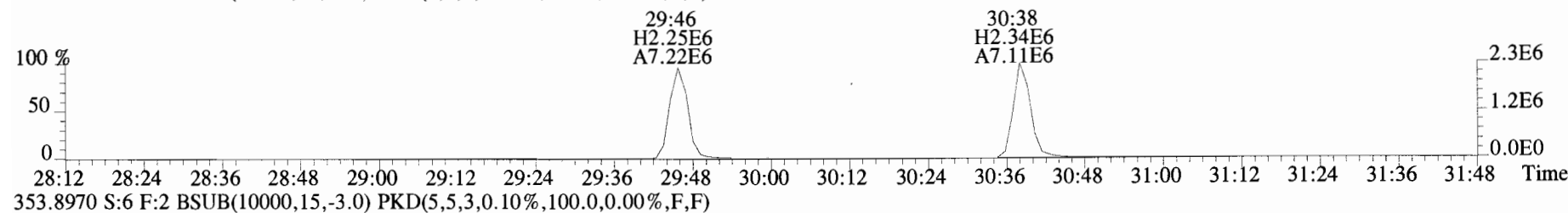
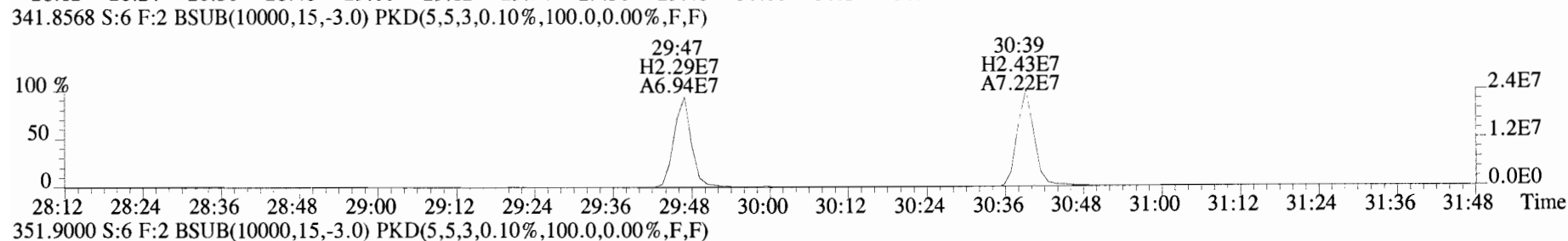
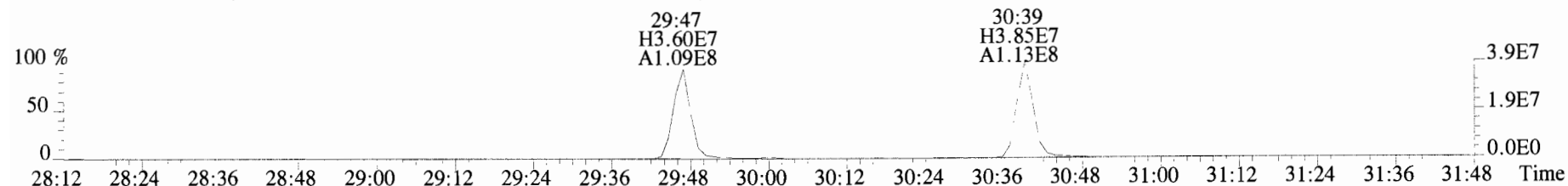




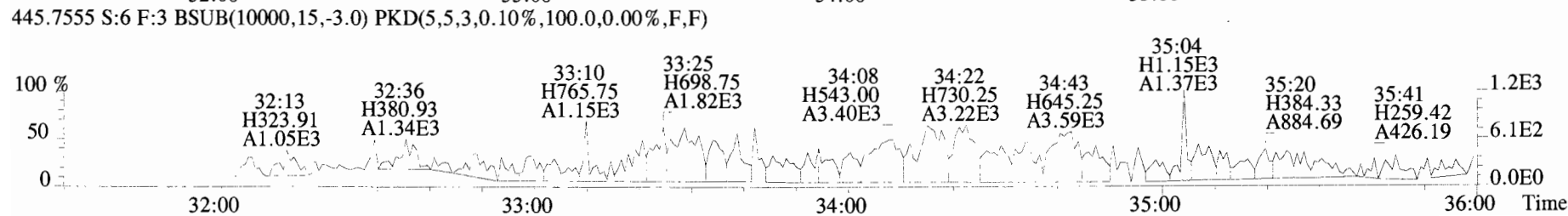
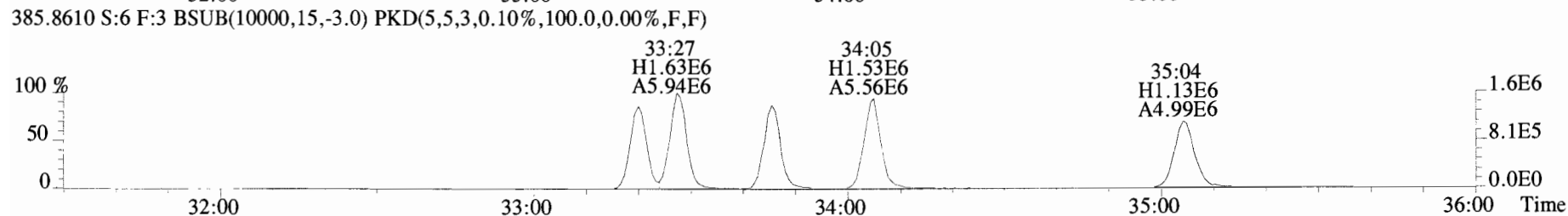
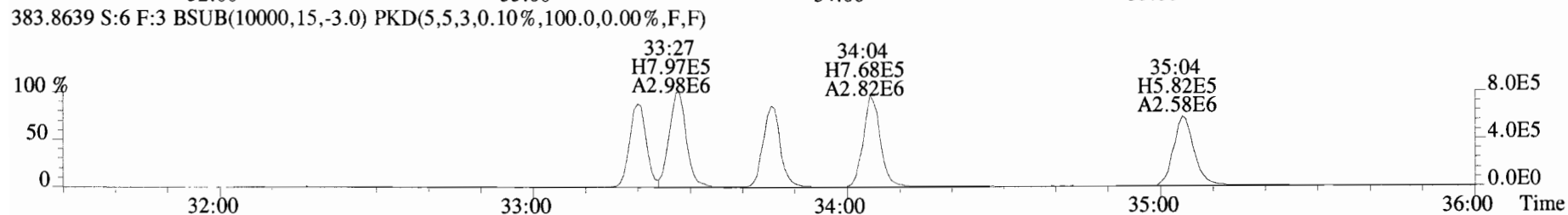
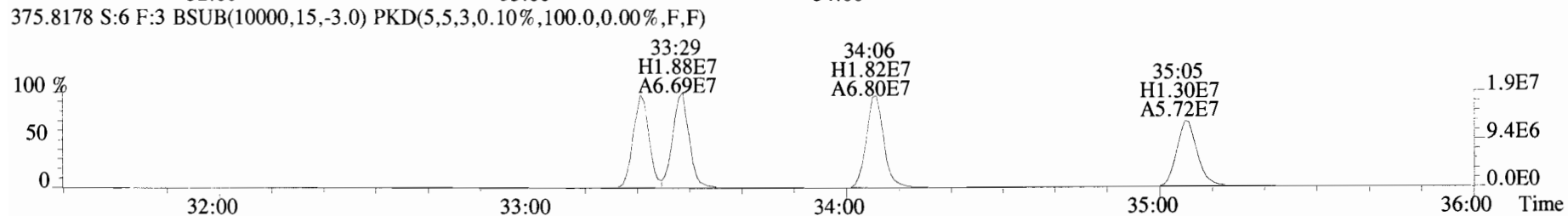
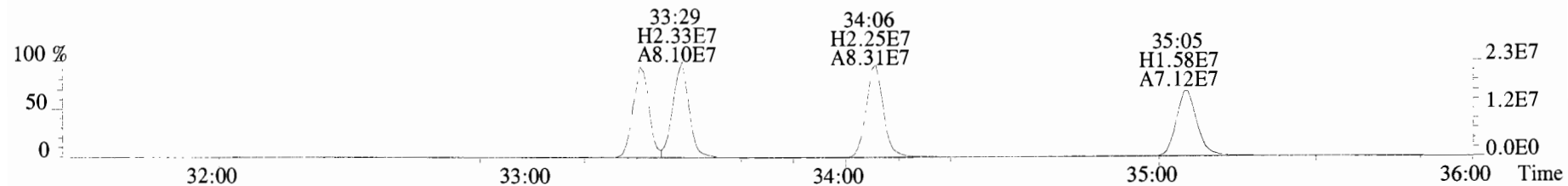
File:191009D1 #1-513 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
 339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



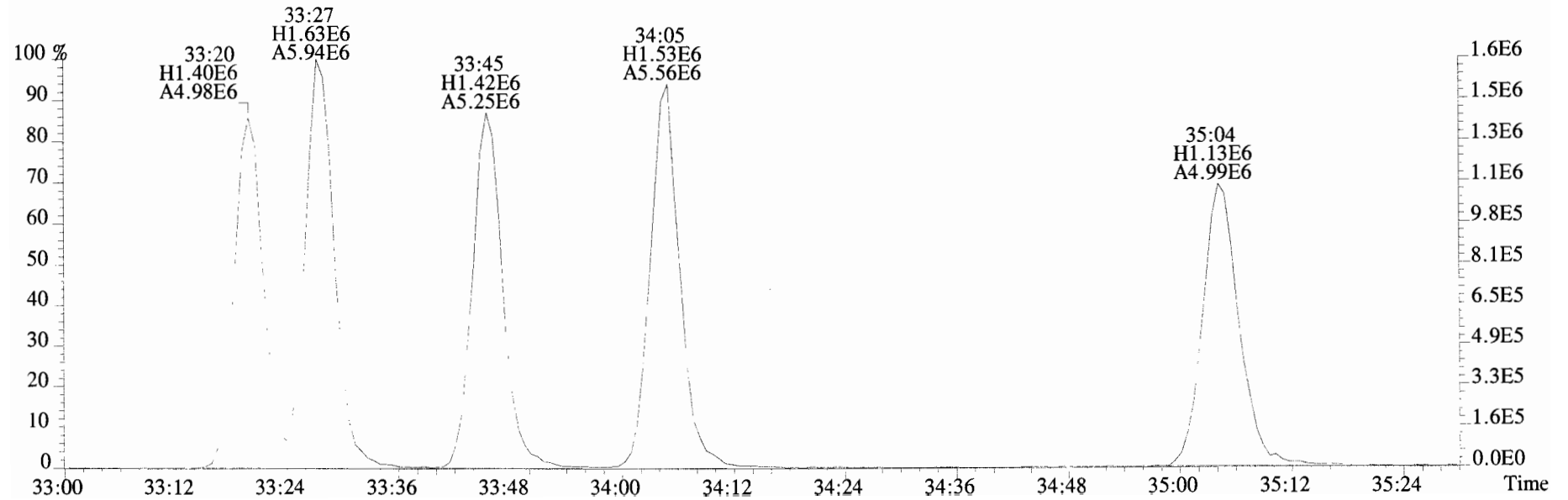
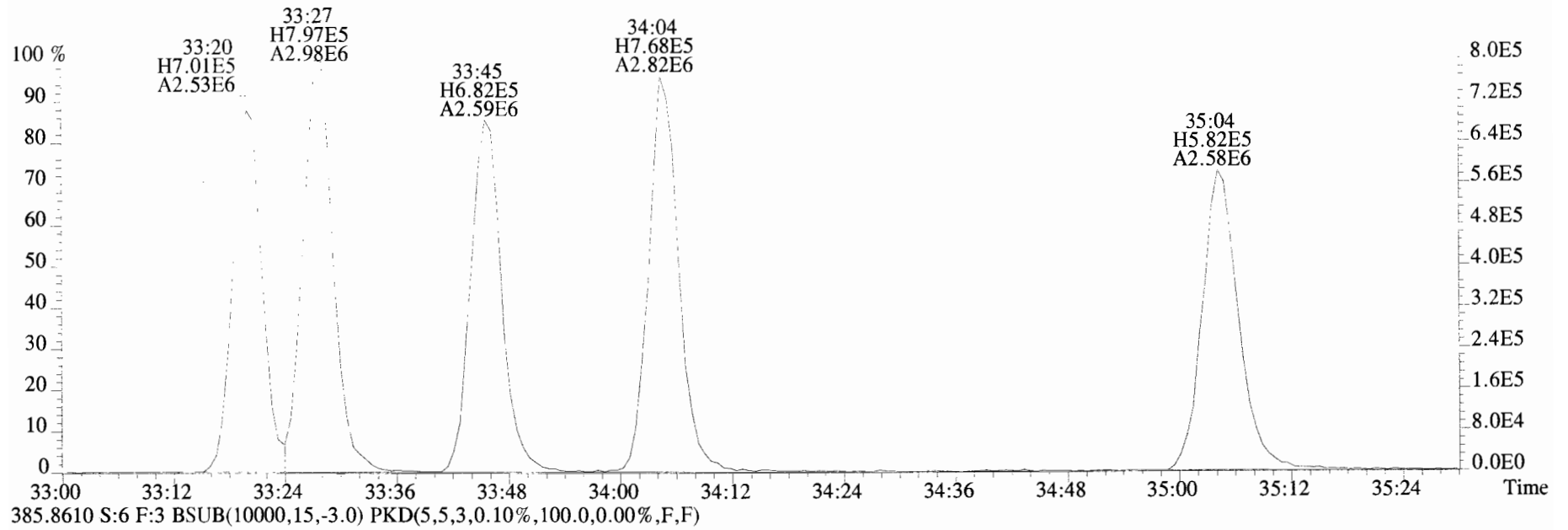
File:191009D1 #1-211 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



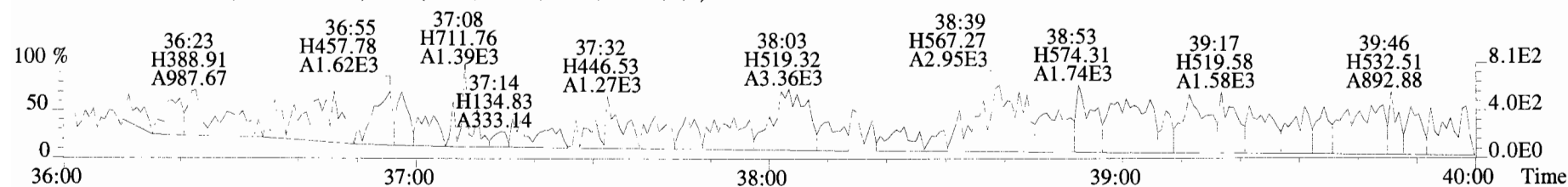
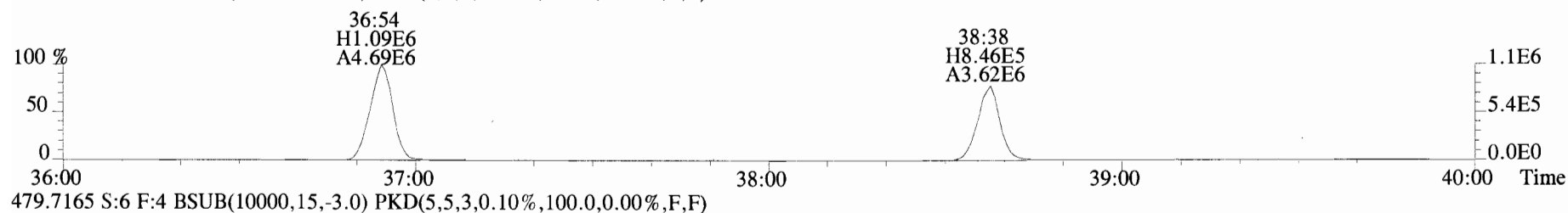
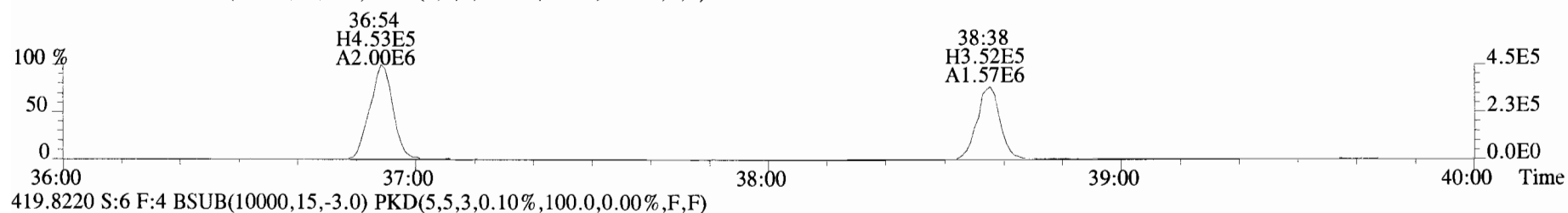
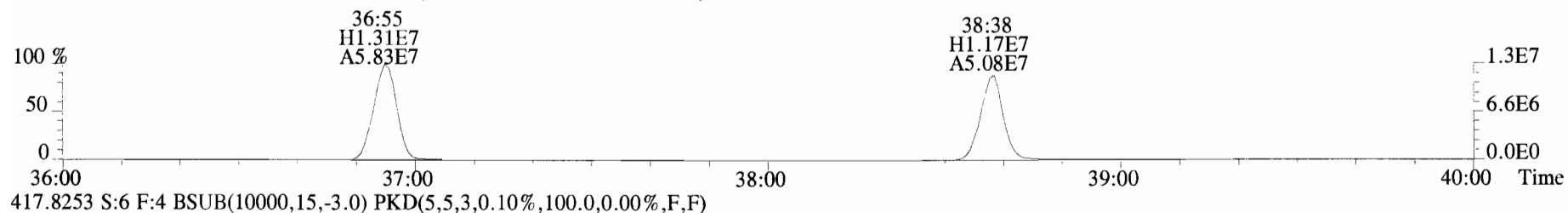
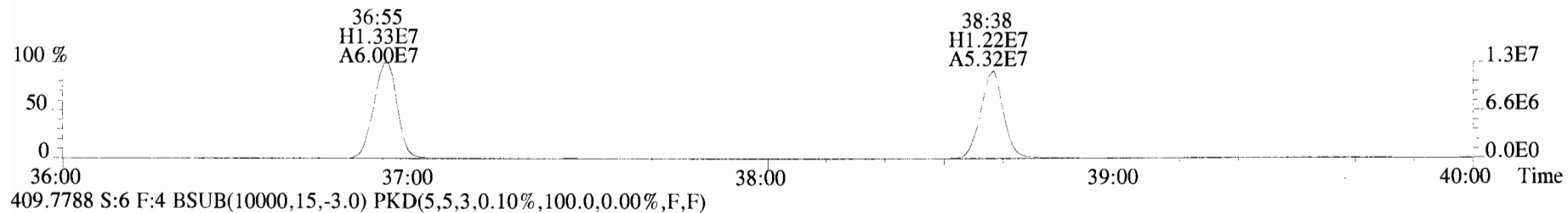
File:191009D1 #1-354 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



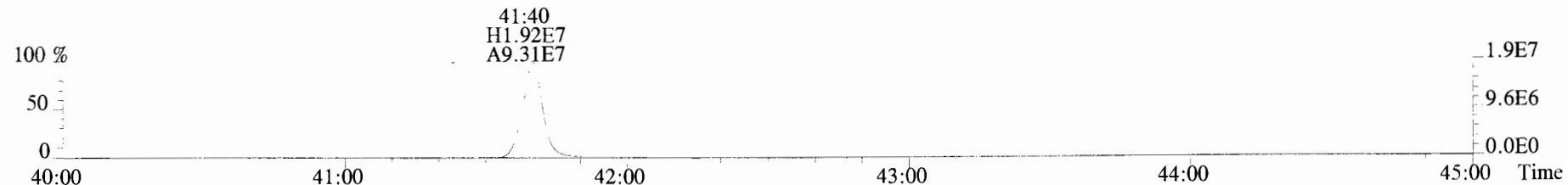
File:191009D1 #1-354 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



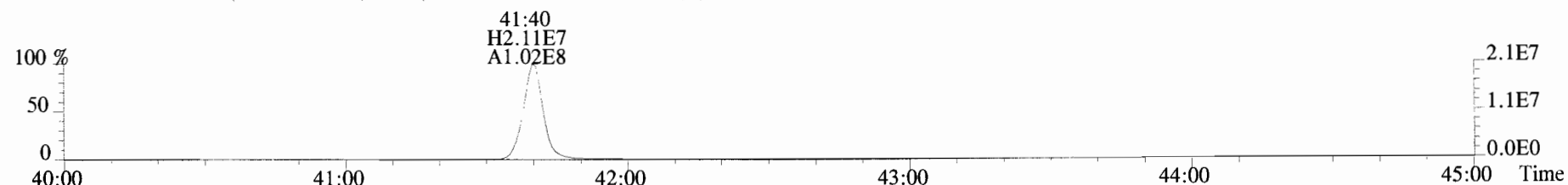
File:191009D1 #1-356 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
 407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



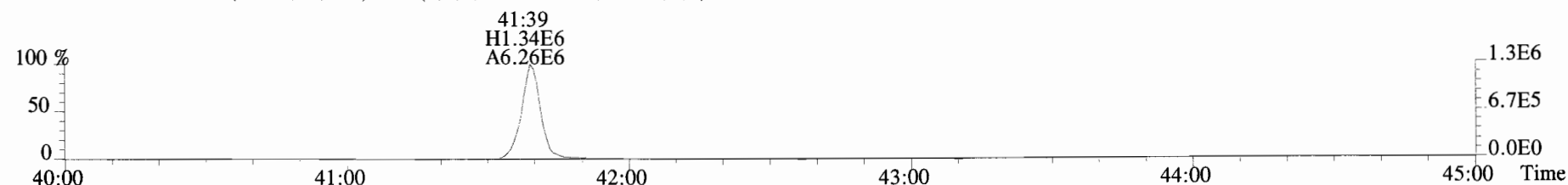
File:191009D1 #1-431 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
 441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



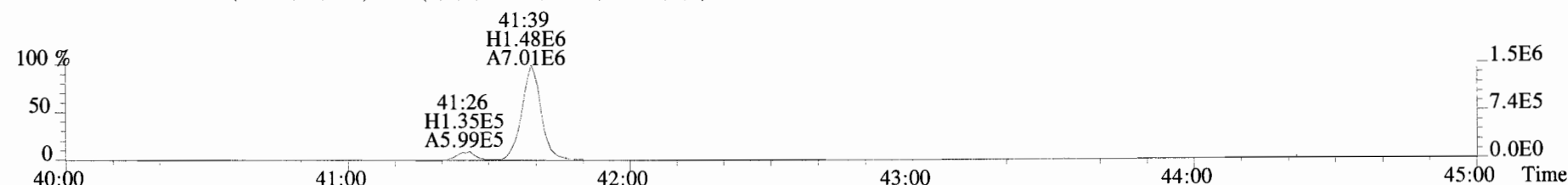
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



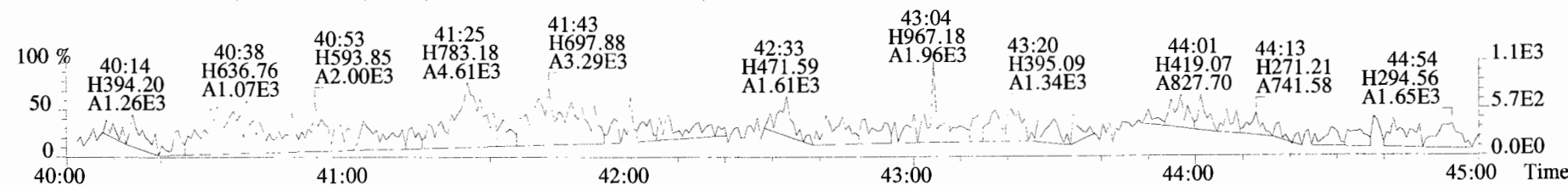
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

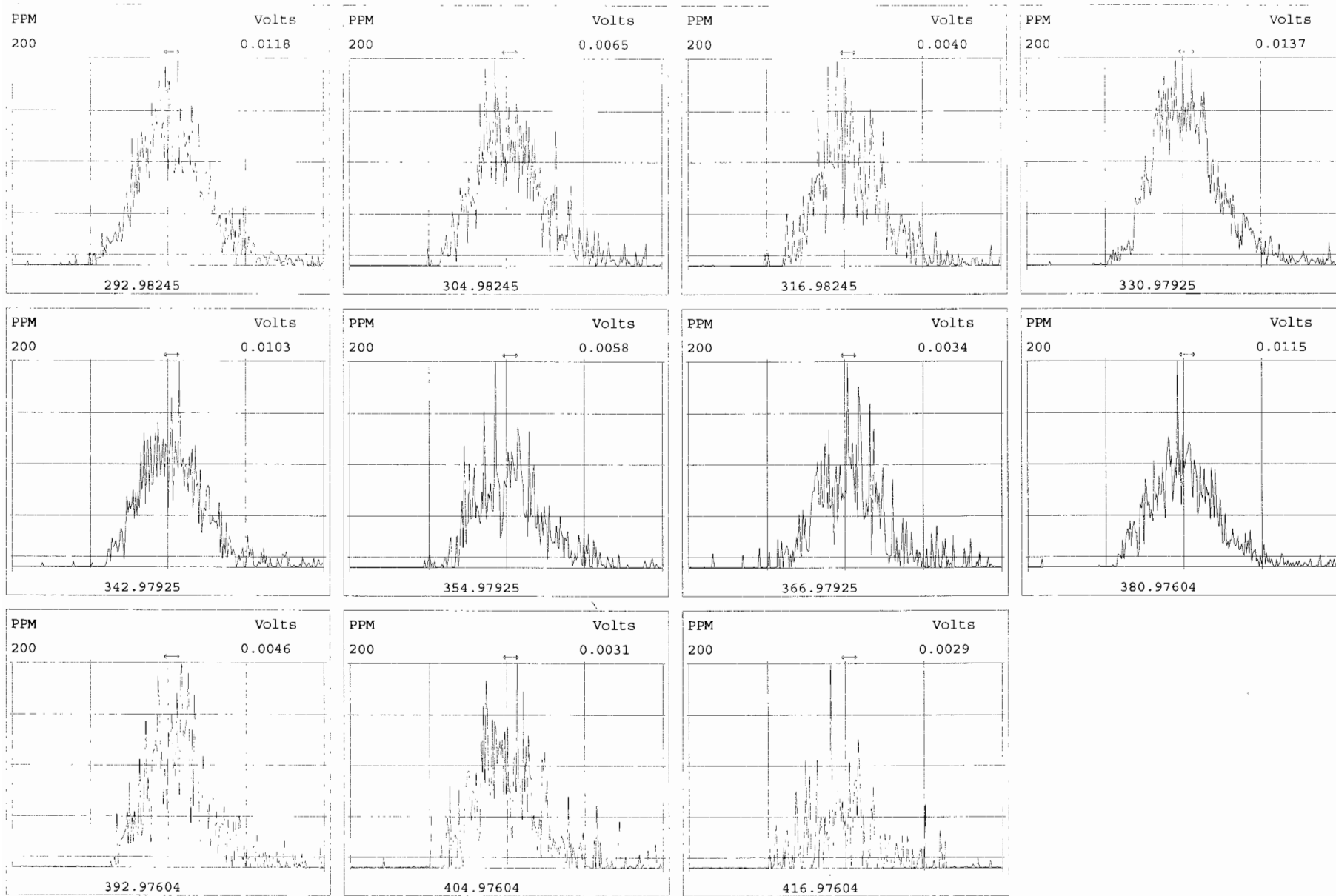


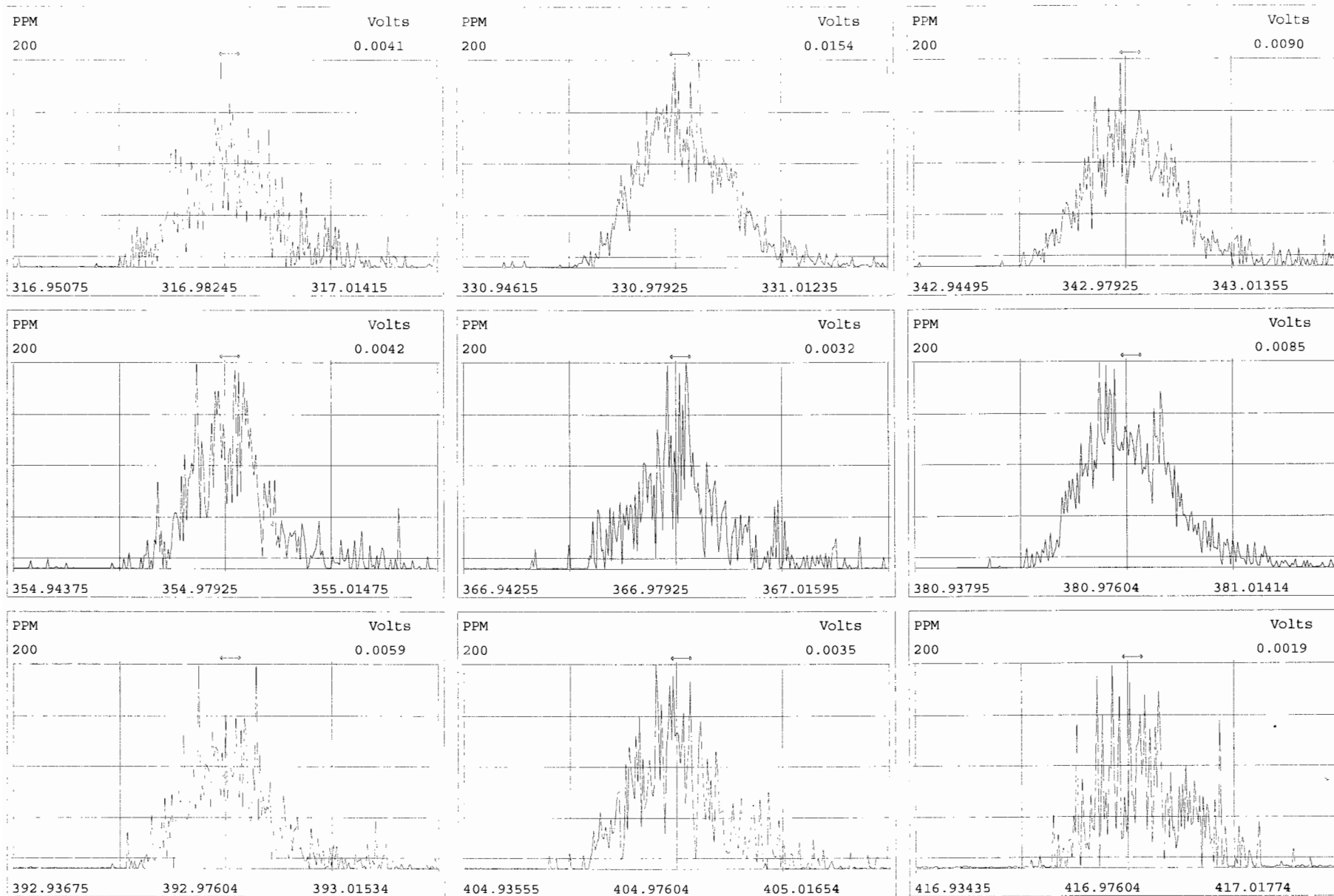
513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



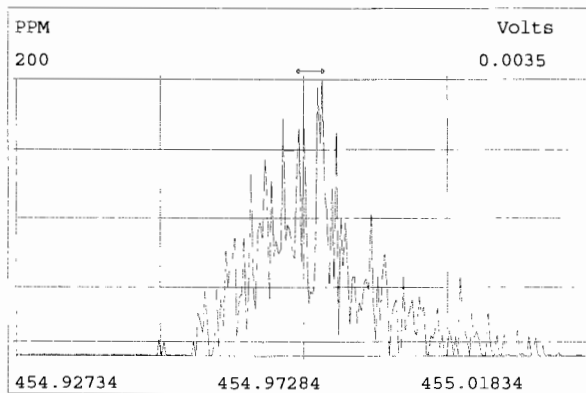
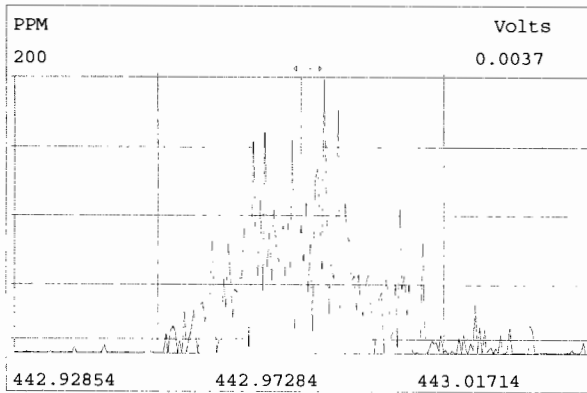
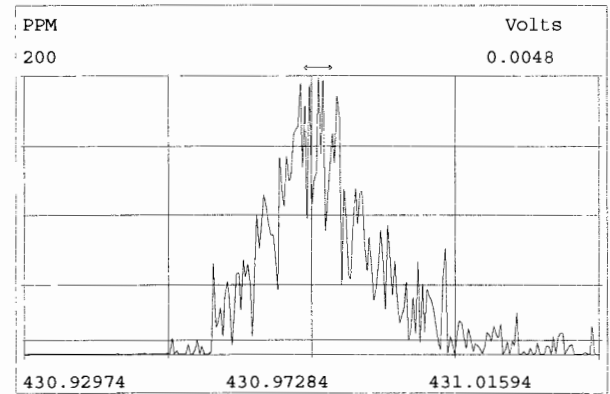
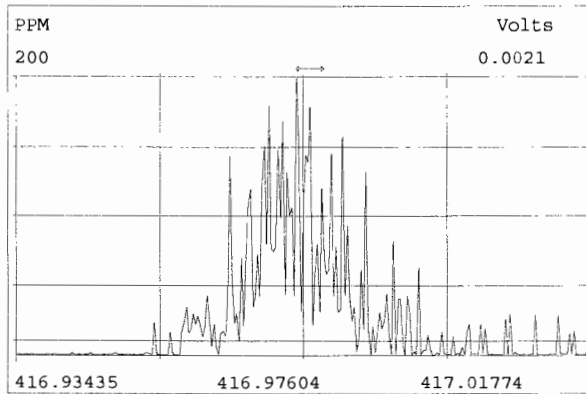
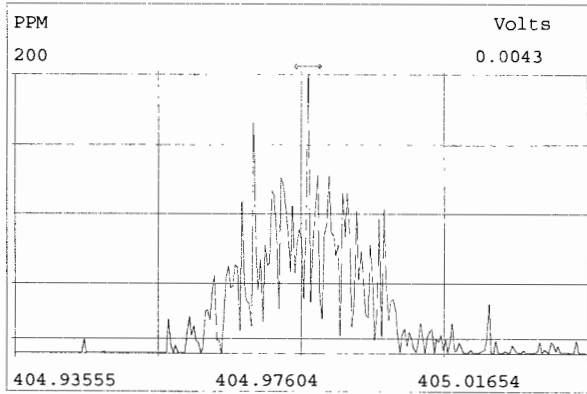
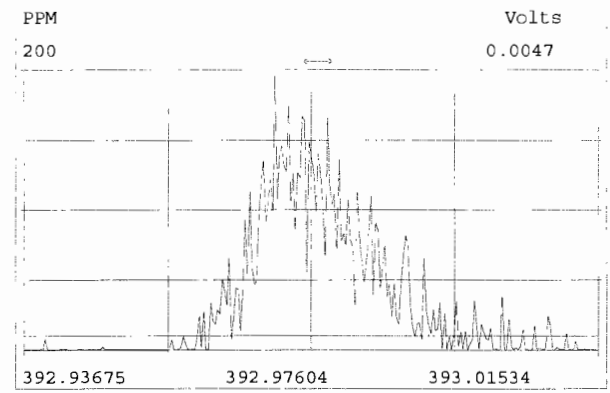
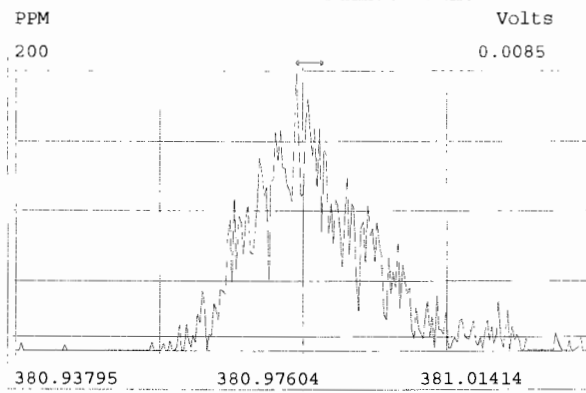
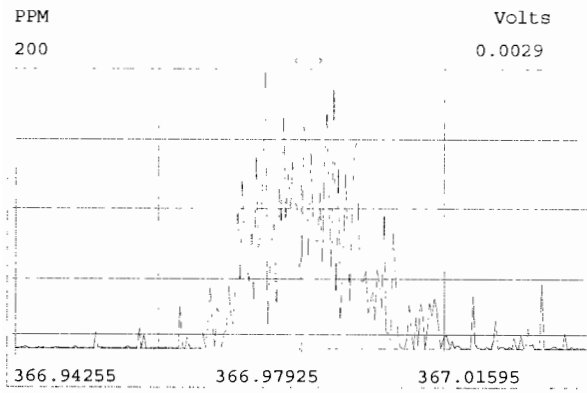
Peak Locate Examination:10-OCT-2019:06:40 File:RES\_CHECK

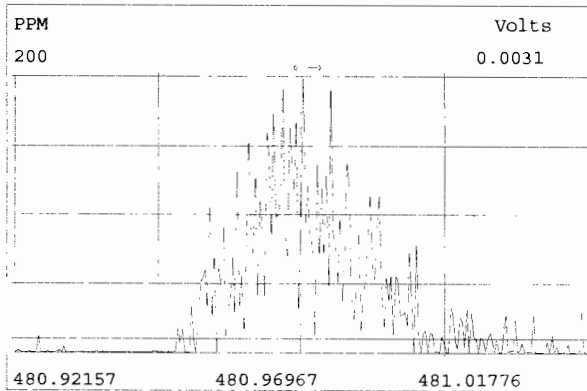
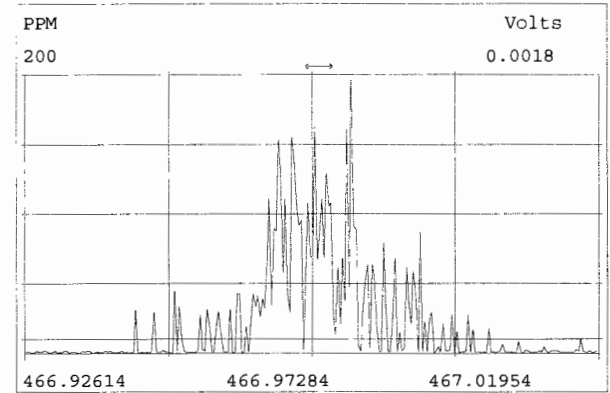
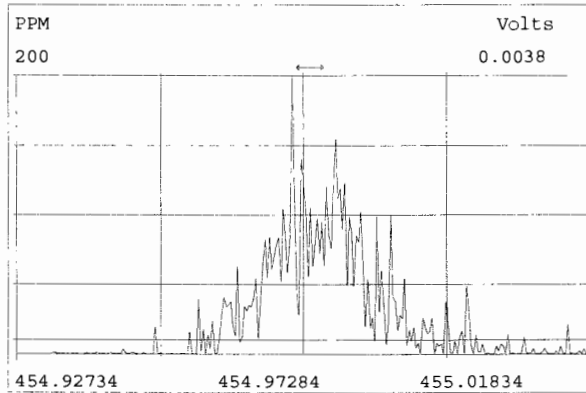
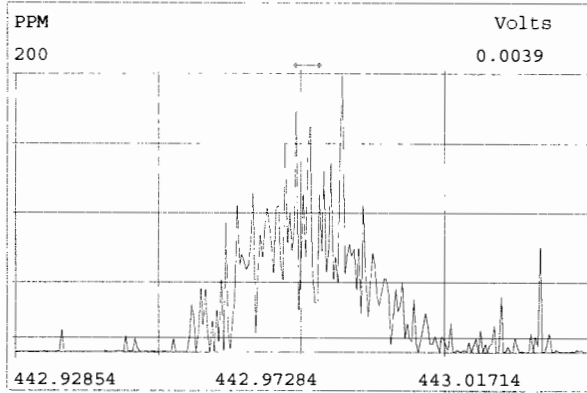
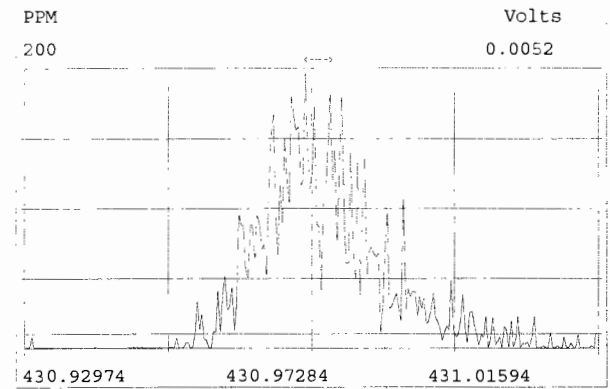
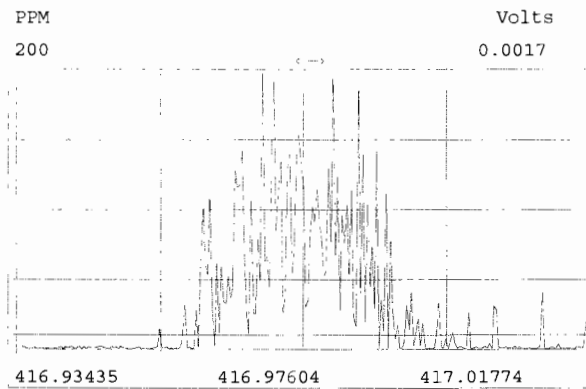
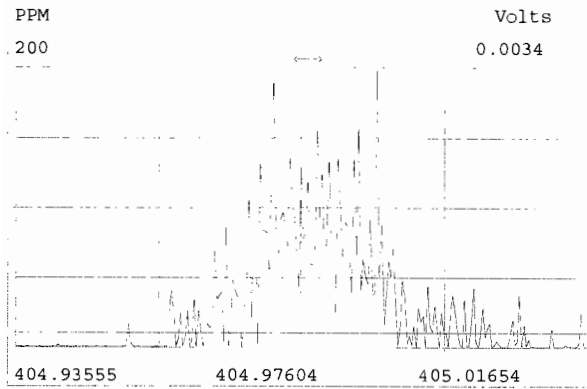
Experiment:OCDD\_DB5 Function:1 Reference:PFK



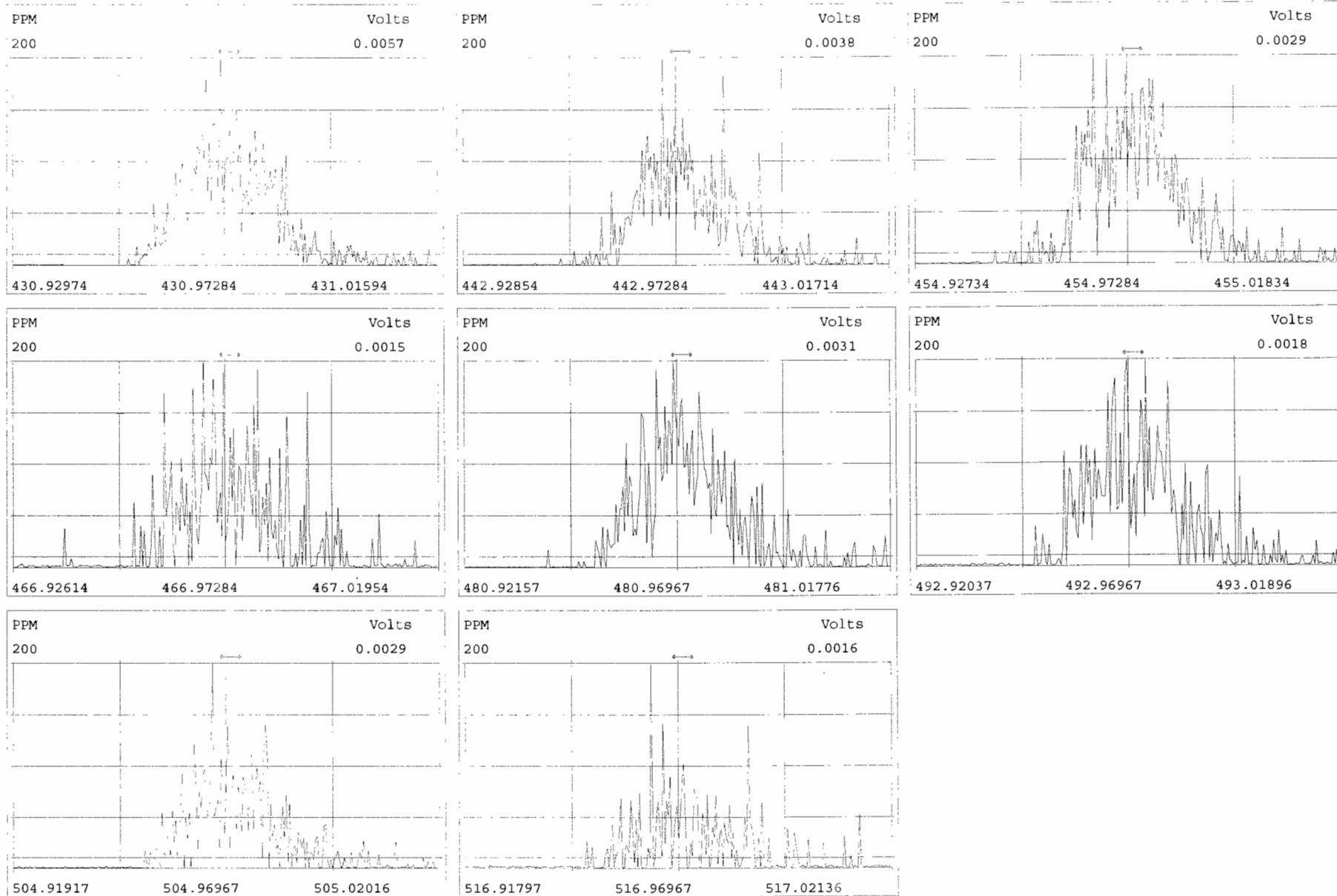








Experiment:OCDD\_DB5 Function:5 Reference:PFK



FORM 4A  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.: CCAL ID: SS191009D1-1

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 191009D1 S#8 Analysis Date: 9-OCT-19 Time: 21:46:34

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC.	CONC.
	FORMING	ABUND.	LIMITS		FOUND	RANGE (3)
	RATIO (1)	RATIO	(2)			(ng/mL)
2,3,7,8-TCDD	M/M+2	0.83	0.65-0.89	y	10.2	7.8 - 12.9 8.2 - 12.3 (4)
1,2,3,7,8-PeCDD	M/M+2	0.63	0.54-0.72	y	51.3	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	48.9	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.18	1.05-1.43	y	52.4	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.17	1.05-1.43	y	50.4	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	0.88-1.20	y	51.9	43.0 - 58.0
OCDD	M+2/M+4	0.92	0.76-1.02	y	105	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	y	10.3	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.54	1.32-1.78	y	50.2	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	56.7	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	51.1	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	51.5	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.20	1.05-1.43	y	51.5	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.05-1.43	y	50.9	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.05	0.88-1.20	y	53.0	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88-1.20	y	50.2	43.0 - 58.0
OCDF	M+2/M+4	0.92	0.76-1.02	y	102	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

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

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

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: DB

Date: 10/10/19

FORM 4B  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 191009D1 S#8 Analysis Date: 9-OCT-19 Time: 21:46:34

LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.72	0.65-0.89	y	100	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.64	0.54-0.72	y	101	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	95.9	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	95.6	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05-1.43	y	94.3	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	91.7	72.0 - 138.0
13C-OCDD	M/M+2	0.92	0.76-1.02	y	190	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.78	0.65-0.89	y	97.2	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	97.4	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	96.6	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	102	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	101	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	97.1	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	99.0	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.43	0.37-0.51	y	96.6	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.44	0.37-0.51	y	102	77.0 - 129.0
13C-OCDF	M+2/M+4	0.88	0.76-1.02	y	197	96.0 - 415.0
CLEANUP STANDARD (3)						
37Cl-2,3,7,8-TCDD					9.08	7.9 - 12.7

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified

(3) No ion abundance ratio; report concentration found.

Analyst: DB

Date: 10/10/19

FORM 6A  
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 191009D1 S#8 Analysis Date: 9-OCT-19 Time: 21:46:34

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.000	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.000	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002
LABELED COMPOUNDS			
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.189	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.994	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.145	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.179	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052

Analyst: DB

Date: 10/10/19

FORM 6B  
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 191009D1 S#8 Analysis Date: 9-OCT-19 Time: 21:46:34

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		QC LIMITS (1)
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.000	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.001	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.001	0.998-1.004
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001
OCDD	13C-OCDD	1.000	0.999-1.001
OCDF	13C-OCDF	1.000	0.999-1.001

LABELED COMPOUNDS

13C-1,2,3,4,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.987	0.975-1.001
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.991	0.979-1.005
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.010	1.001-1.020
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.040	1.002-1.072
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.014	1.002-1.026
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.018	1.007-1.029
13C-1,2,3,7,8,9-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.027	1.014-1.038
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.093	1.069-1.111
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.145	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.127	1.117-1.141
13C-OCDD	13C-1,2,3,4,6,9-HxCDF	1.227	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.235	1.091-1.371

Analyst: DB

Date: 10/10/19

Client ID: 1613 SSS 19C2207  
Lab ID: SS191009D1-1

Filename: 191009D1 S:8 Acq: 9-OCT-19 21:46:34  
GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19 wt/vol: 1.000

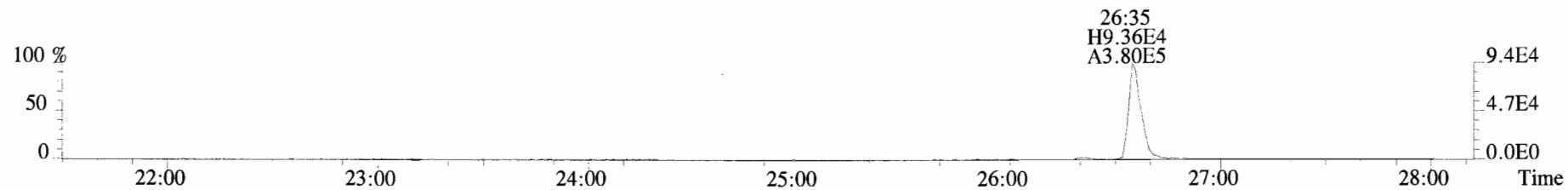
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EndCAL: NA

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	8.36e+05	0.83 y	0.91	26:36	10.234		* 2.5		*	Total Tetra-Dioxins	10.4	11.4		*	*
1,2,3,7,8-PeCDD	3.38e+06	0.63 y	0.90	30:57	51.323		* 2.5		*	Total Penta-Dioxins	51.4	51.7		*	*
1,2,3,4,7,8-HxCDD	2.55e+06	1.31 y	1.10	34:18	48.909		* 2.5		*	Total Hexa-Dioxins	153	153		*	*
1,2,3,6,7,8-HxCDD	3.09e+06	1.18 y	0.94	34:24	52.378		* 2.5		*	Total Hepta-Dioxins	53.5	54.4		*	*
1,2,3,7,8,9-HxCDD	2.83e+06	1.17 y	0.96	34:44	50.434		* 2.5		*	Total Tetra-Furans	10.7	11.4		*	*
1,2,3,4,6,7,8-HpCDD	2.34e+06	1.02 y	0.98	38:07	51.915		* 2.5		*	Total Penta-Furans	110.38	111.73		*	*
OCDD	4.27e+06	0.92 y	0.96	41:30	105.37		* 2.5		*	Total Hexa-Furans	205	207		*	*
										Total Hepta-Furans	104	106		*	*
2,3,7,8-TCDF	1.24e+06	0.78 y	0.95	25:53	10.342		* 2.5		*						
1,2,3,7,8-PeCDF	5.03e+06	1.54 y	0.96	29:48	50.200		* 2.5		*						
2,3,4,7,8-PeCDF	5.90e+06	1.60 y	1.01	30:42	56.719		* 2.5		*						
1,2,3,4,7,8-HxCDF	3.94e+06	1.22 y	1.18	33:23	51.086		* 2.5		*						
1,2,3,6,7,8-HxCDF	4.44e+06	1.23 y	1.07	33:31	51.491		* 2.5		*						
2,3,4,6,7,8-HxCDF	4.08e+06	1.20 y	1.11	34:08	51.474		* 2.5		*						
1,2,3,7,8,9-HxCDF	3.40e+06	1.24 y	1.06	35:10	50.903		* 2.5		*						
1,2,3,4,6,7,8-HpCDF	3.36e+06	1.05 y	1.13	36:58	53.010		* 2.5		*						
1,2,3,4,7,8,9-HpCDF	2.94e+06	1.05 y	1.28	38:42	50.216		* 2.5		*						
OCDF	5.04e+06	0.92 y	0.95	41:45	102.23		* 2.5		*						
IS	13C-2,3,7,8-TCDD	9.02e+06	0.72 y	1.10	26:35	100.49				Rec	Qual				
IS	13C-1,2,3,7,8-PeCDD	7.29e+06	0.64 y	0.88	30:56	100.87				100					
IS	13C-1,2,3,4,7,8-HxCDD	4.73e+06	1.23 y	0.64	34:16	95.948				101					
IS	13C-1,2,3,6,7,8-HxCDD	6.28e+06	1.25 y	0.86	34:24	95.558				95.9					
IS	13C-1,2,3,7,8,9-HxCDD	5.85e+06	1.26 y	0.81	34:43	94.306				95.6					
IS	13C-1,2,3,4,6,7,8-HpCDD	4.61e+06	1.06 y	0.65	38:06	91.680				94.3					
IS	13C-OCDD	8.45e+06	0.92 y	0.58	41:29	189.68				91.7					
IS	13C-2,3,7,8-TCDF	1.26e+07	0.78 y	1.03	25:52	97.199				94.8					
IS	13C-1,2,3,7,8-PeCDF	1.04e+07	1.62 y	0.85	29:48	97.425				97.2					
IS	13C-2,3,4,7,8-PeCDF	1.03e+07	1.59 y	0.85	30:41	96.649				97.4					
IS	13C-1,2,3,4,7,8-HxCDF	6.55e+06	0.51 y	0.83	33:22	102.43				96.6					
IS	13C-1,2,3,6,7,8-HxCDF	8.06e+06	0.51 y	1.03	33:30	101.42				102					
IS	13C-2,3,4,6,7,8-HxCDF	7.11e+06	0.51 y	0.95	34:08	97.073				101					
IS	13C-1,2,3,7,8,9-HxCDF	6.30e+06	0.51 y	0.83	35:09	98.999				97.1					
IS	13C-1,2,3,4,6,7,8-HpCDF	5.62e+06	0.43 y	0.76	36:57	96.588				99.0					
IS	13C-1,2,3,4,7,8,9-HpCDF	4.58e+06	0.44 y	0.58	38:42	102.46				96.6					
IS	13C-OCDF	1.04e+07	0.88 y	0.69	41:44	196.65				102					
C/Up	37Cl-2,3,7,8-TCDD	8.91e+05		1.20	26:36	9.0817				98.3					
RS/RT	13C-1,2,3,4-TCDD	8.20e+06	0.76 y	1.00	26:01	100.00									
RS	13C-1,2,3,4-TCDF	1.25e+07	0.82 y	1.00	24:42	100.00									
RS/RT	13C-1,2,3,4,6,9-HxCDF	7.68e+06	0.50 y	1.00	33:48	100.00									

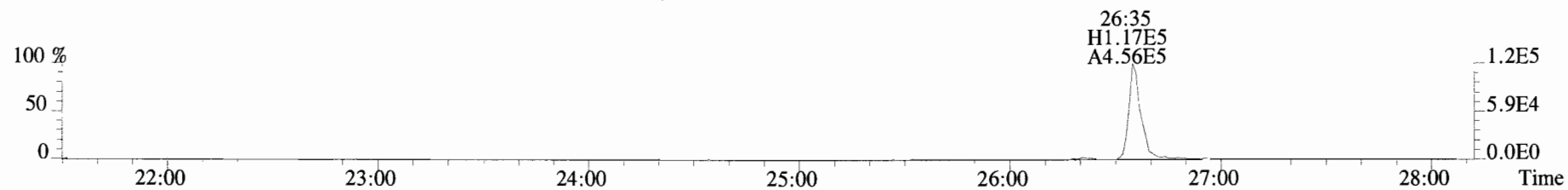
Integrations  
by DB  
Analyst: DB  
Reviewed  
by CT  
Analyst: CT  
Date: 10/10/19  
Date: 10/10/19



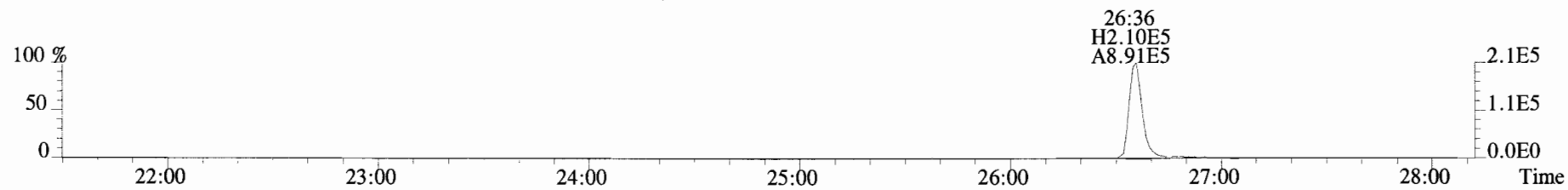
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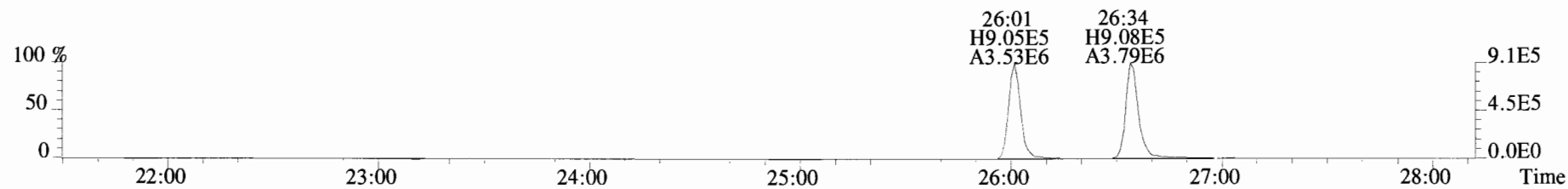
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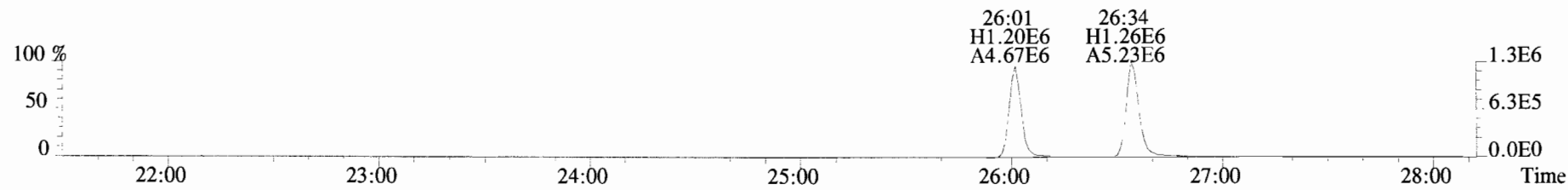
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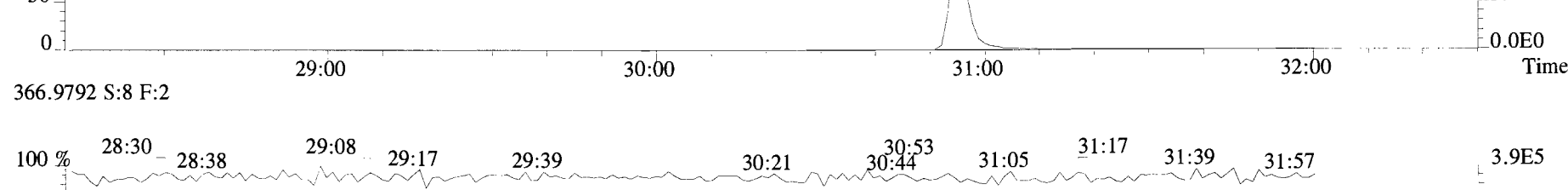
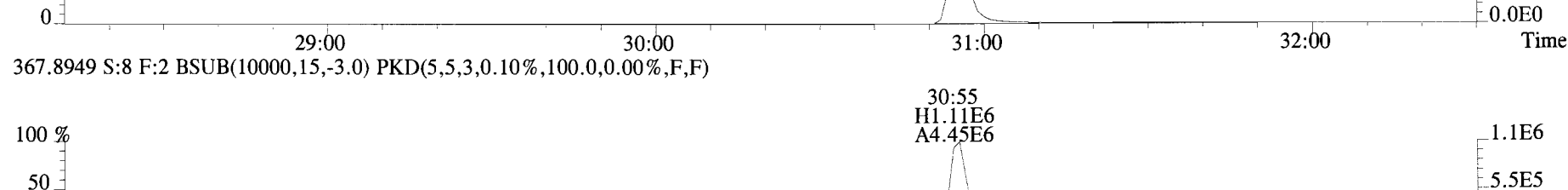
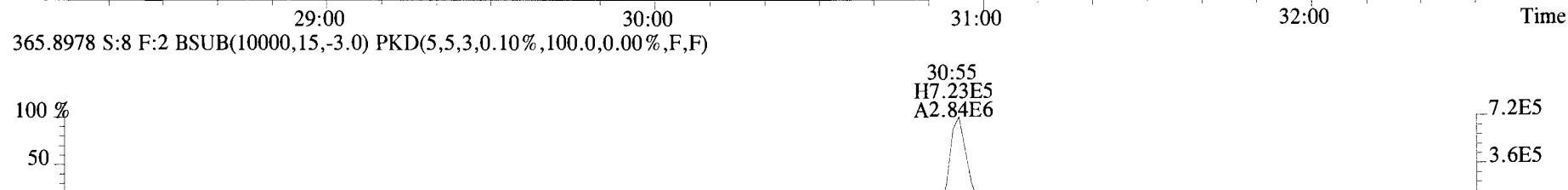
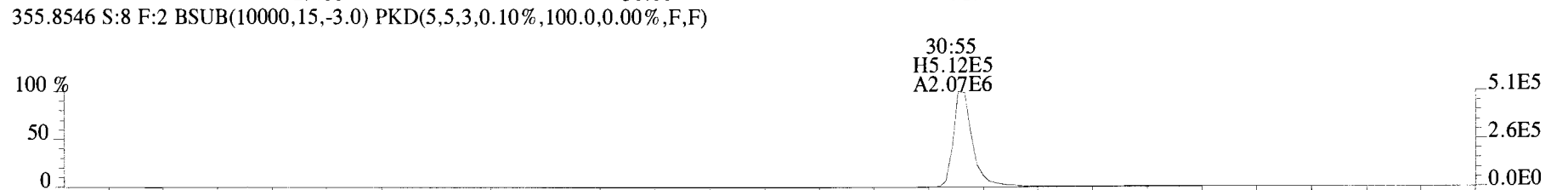
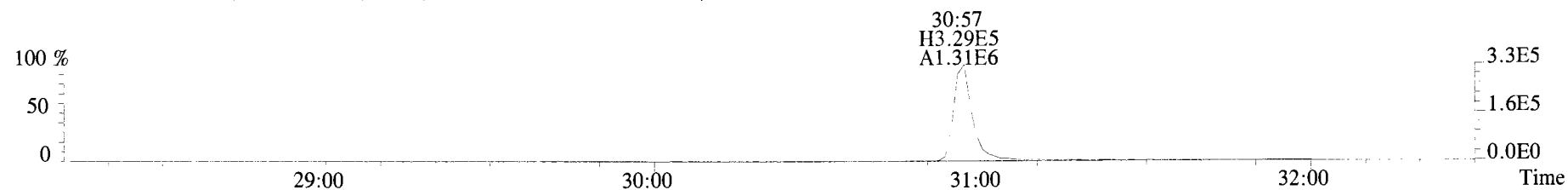
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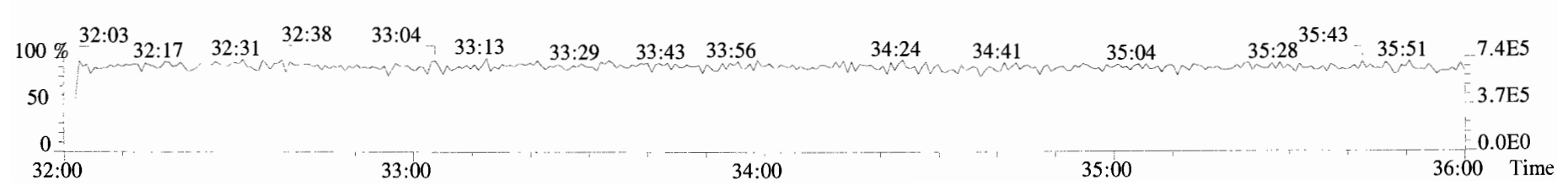
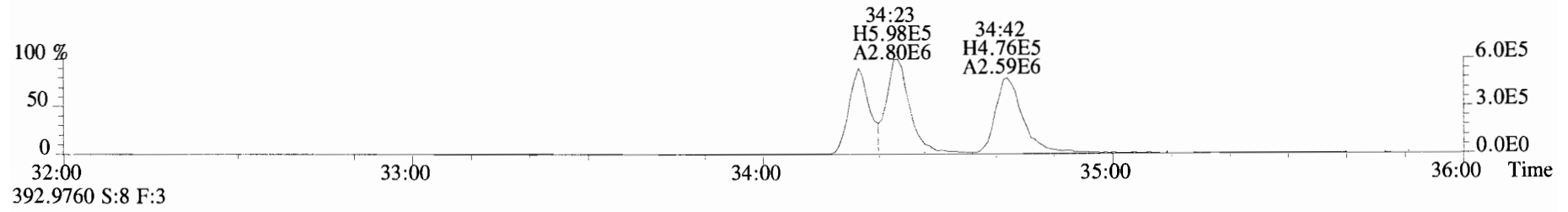
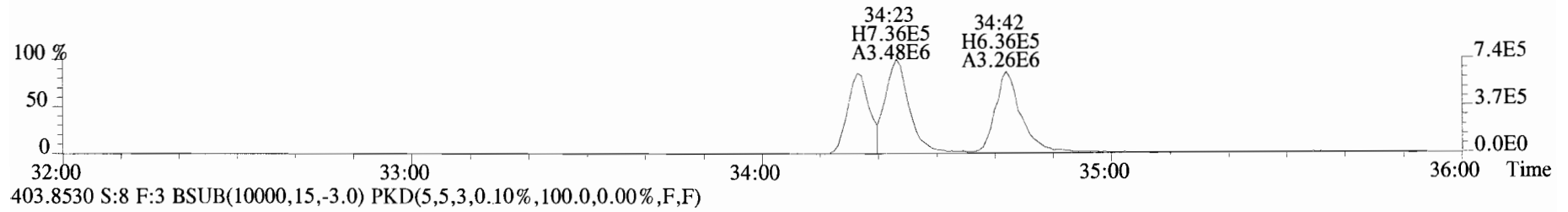
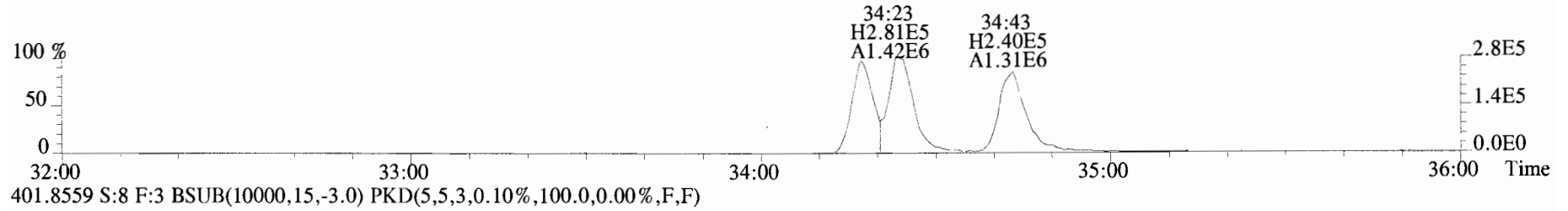
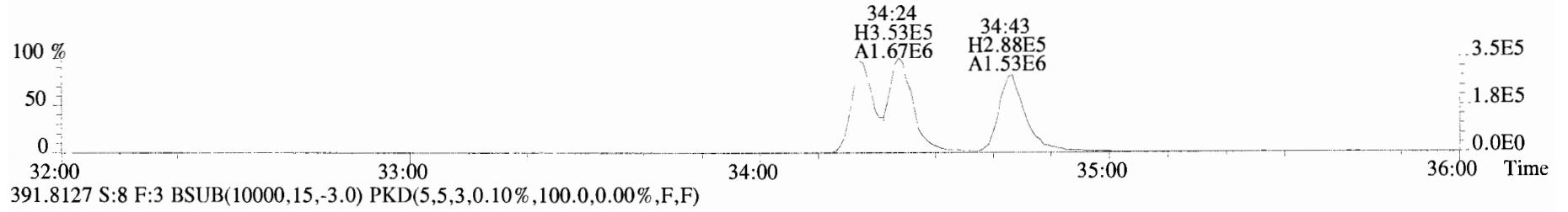
333.9339 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



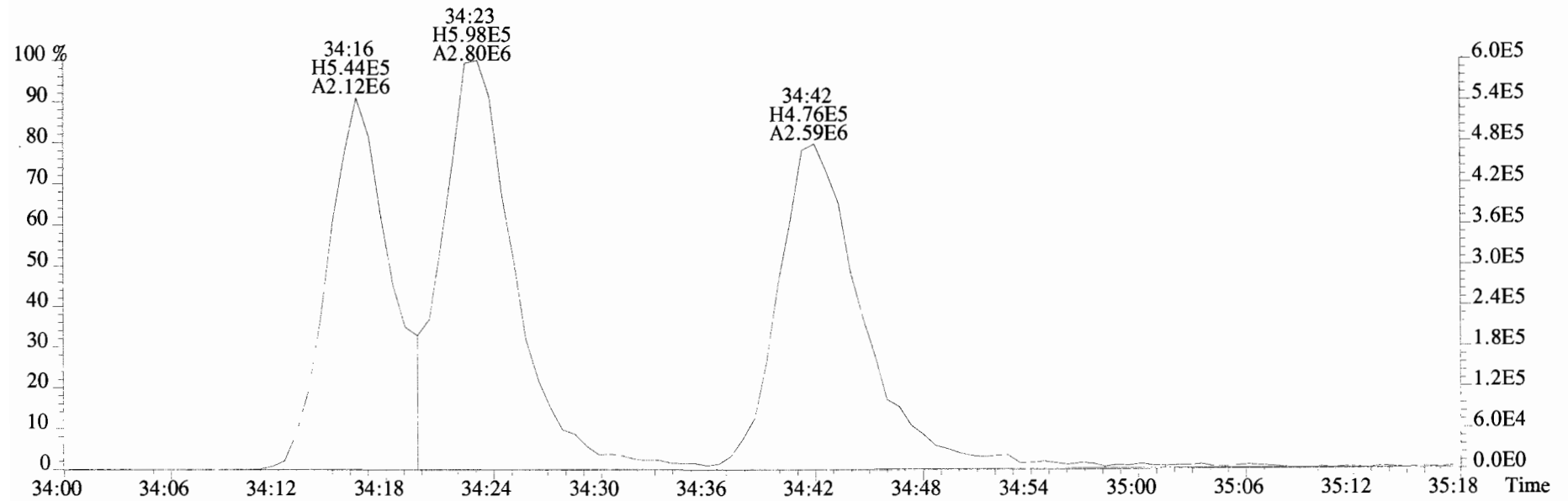
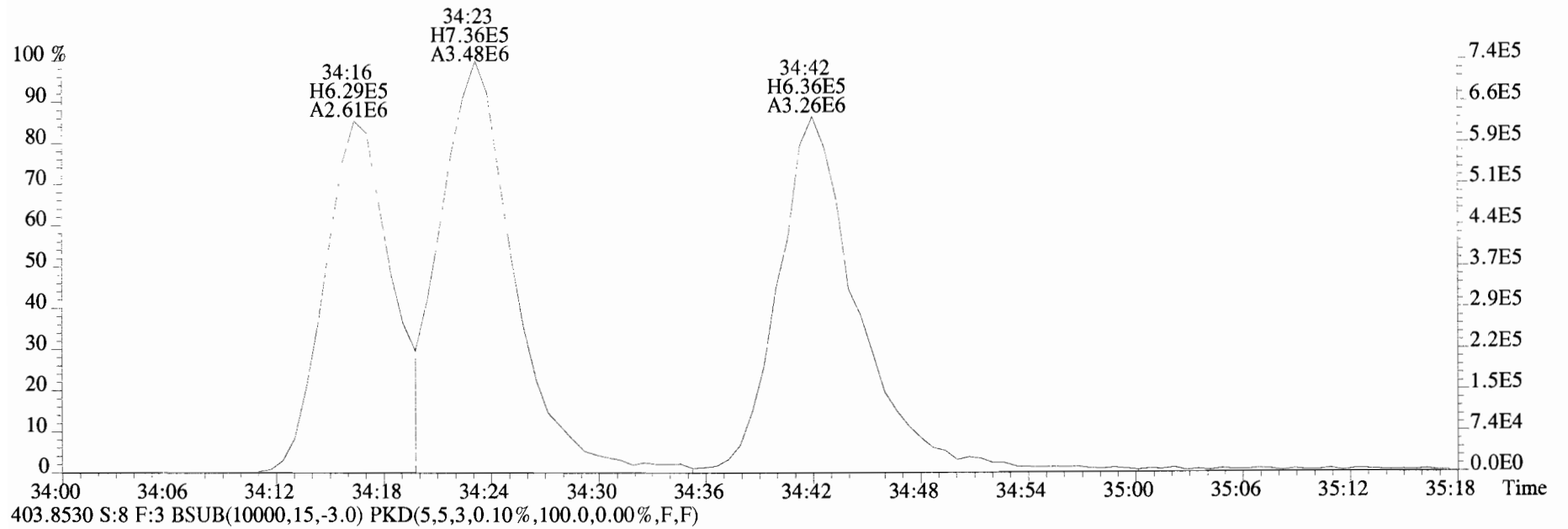
File:191009D1 #1-210 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text: Vista Analytical Laboratory VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
353.8576 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



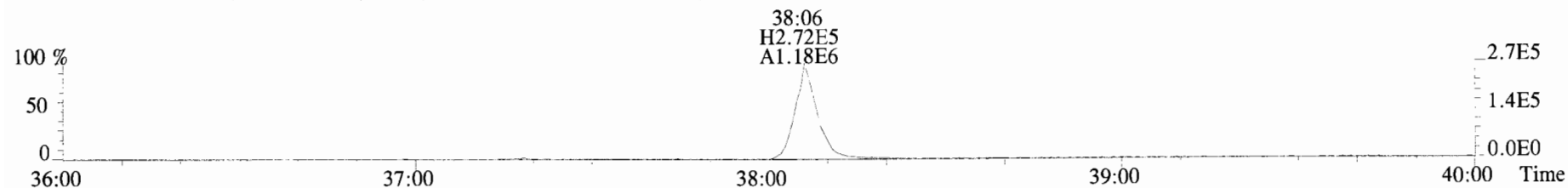
File:191009D1 #1-355 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



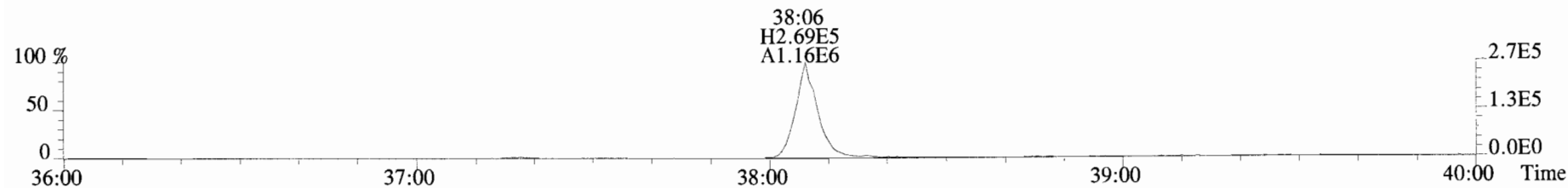
File:191009D1 #1-355 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



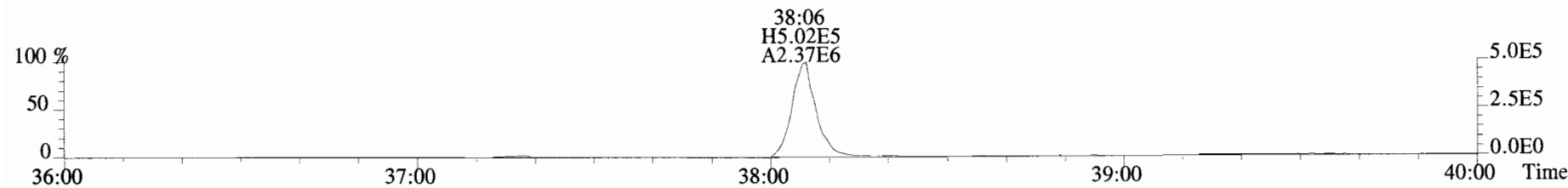
File:191009D1 #1-356 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



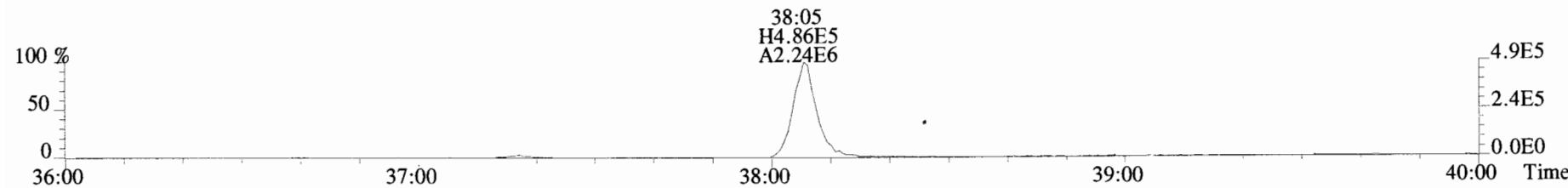
425.7737 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



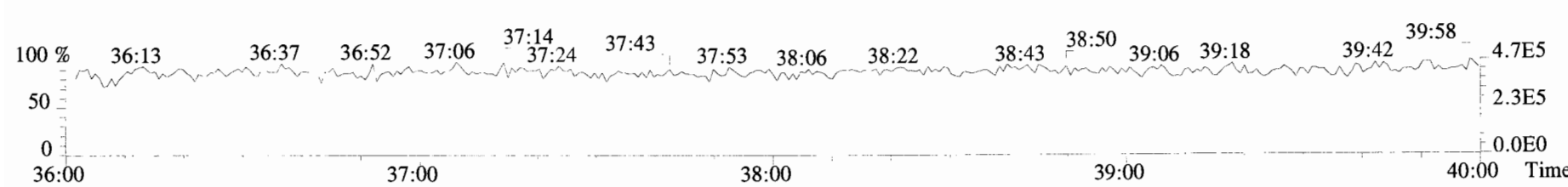
435.8169 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



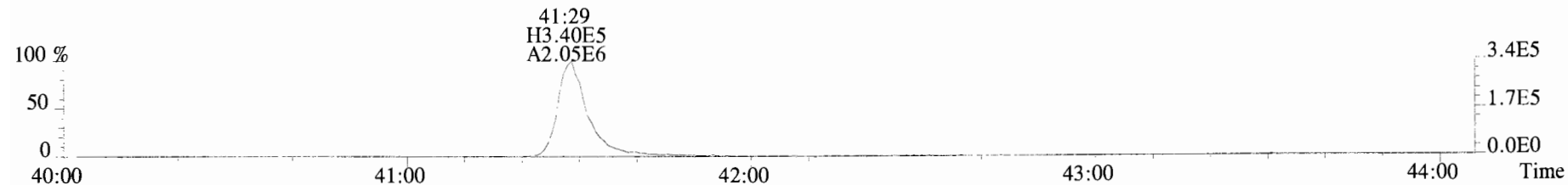
437.8140 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



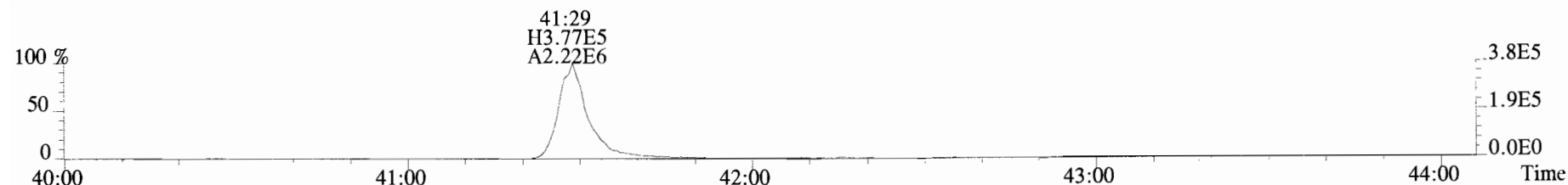
454.9728 S:8 F:4



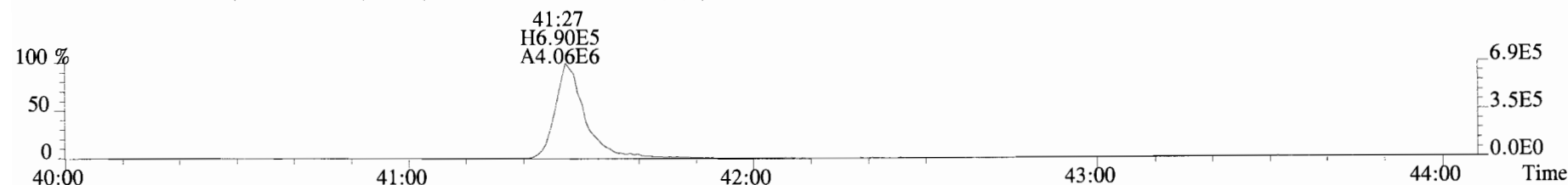
File:191009D1 #1-431 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



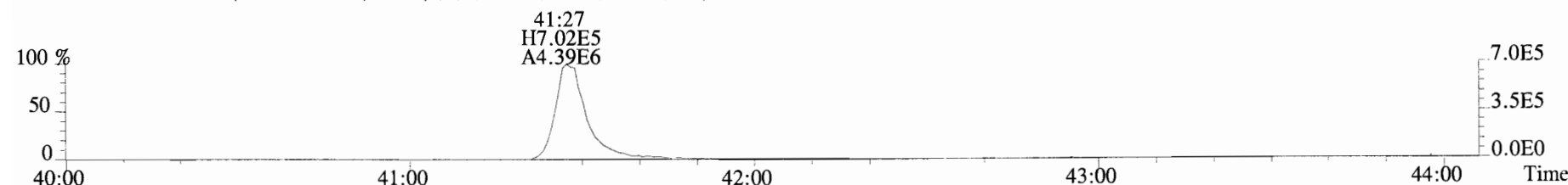
459.7348 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



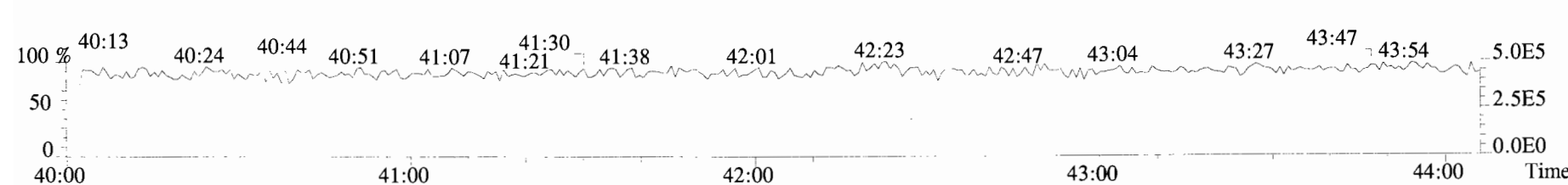
469.7780 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



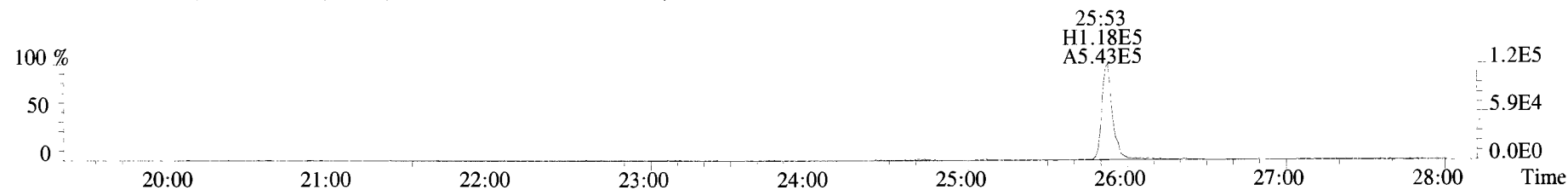
471.7750 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



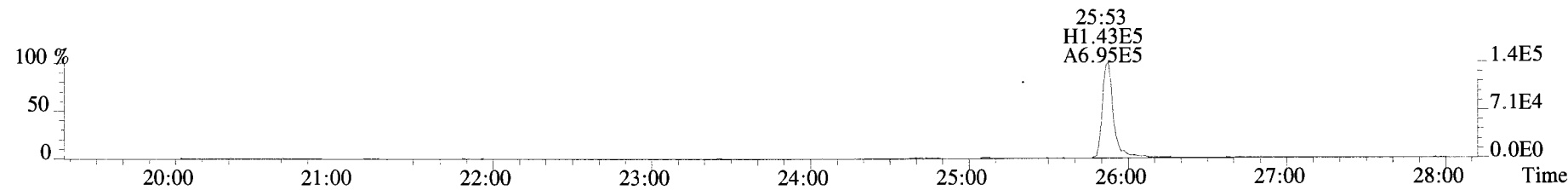
454.9728 S:8 F:5



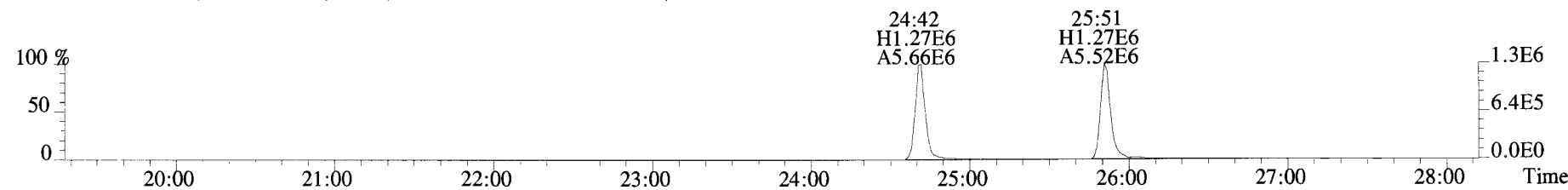
File:191009D1 #1-514 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text: Vista Analytical Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



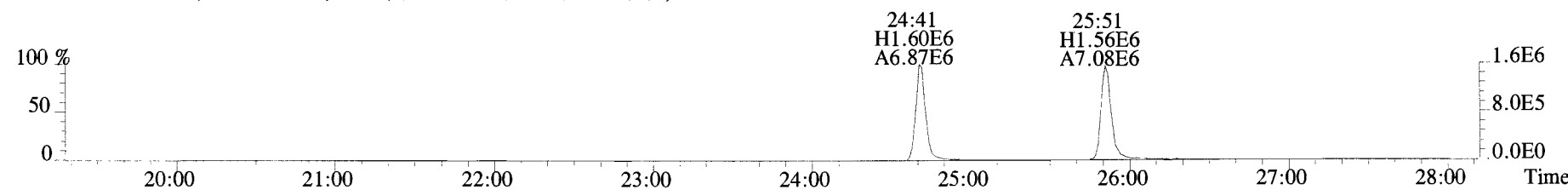
305.8987 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



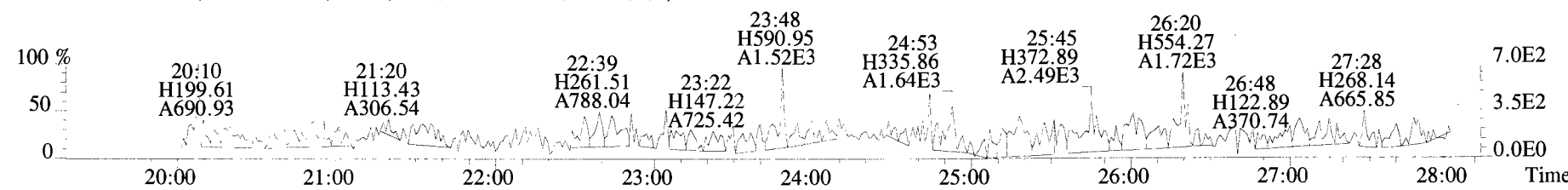
315.9419 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



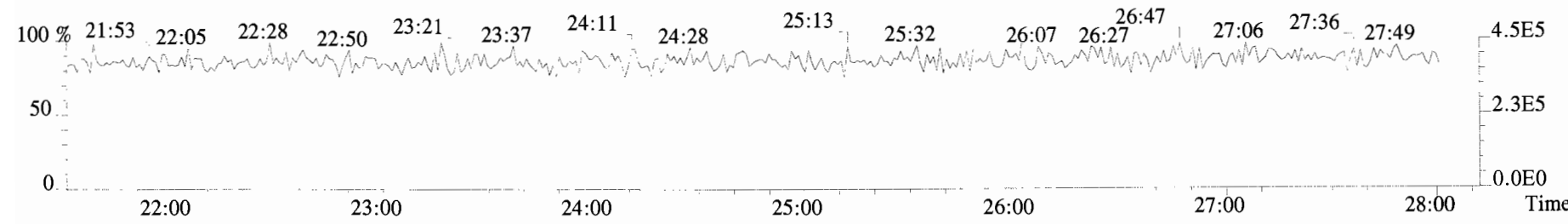
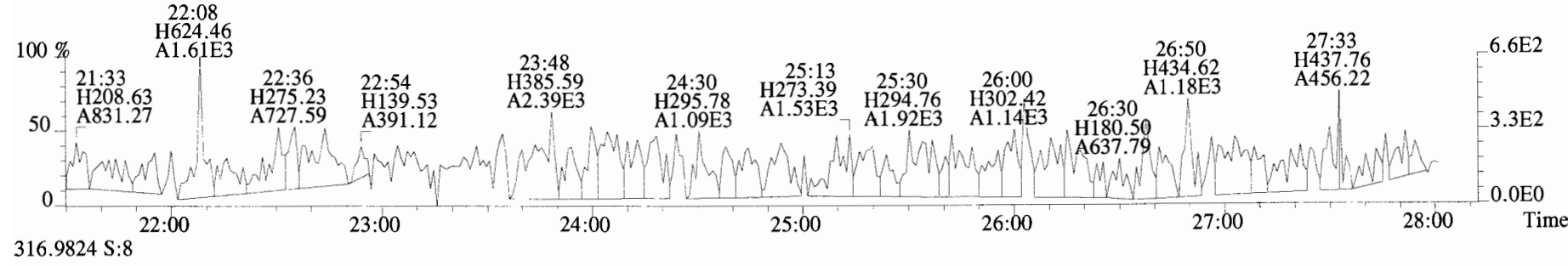
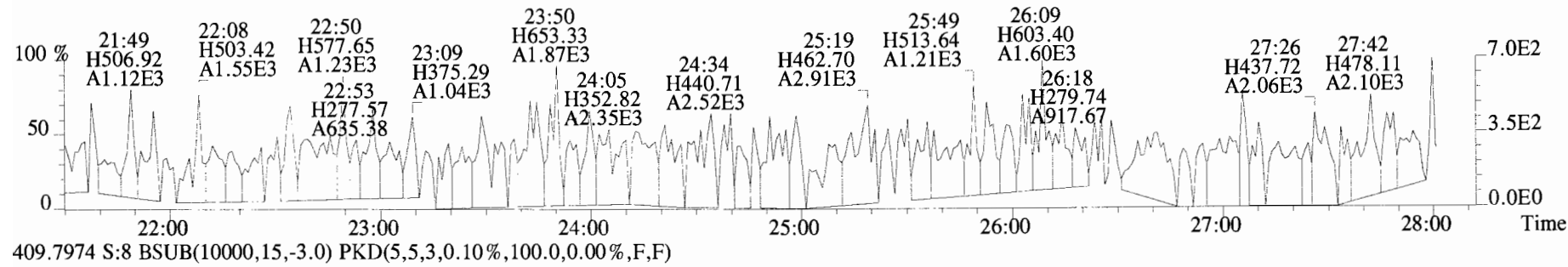
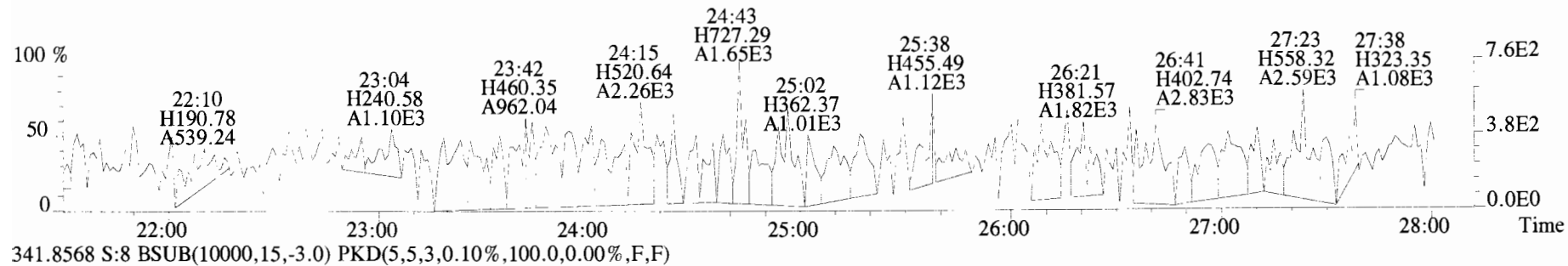
317.9389 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



375.8364 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

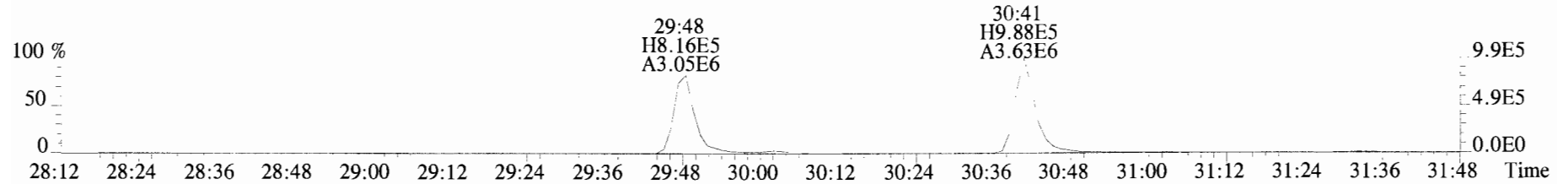


File:191009D1 #1-514 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#8 File Text:Vista Analytical Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
 339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

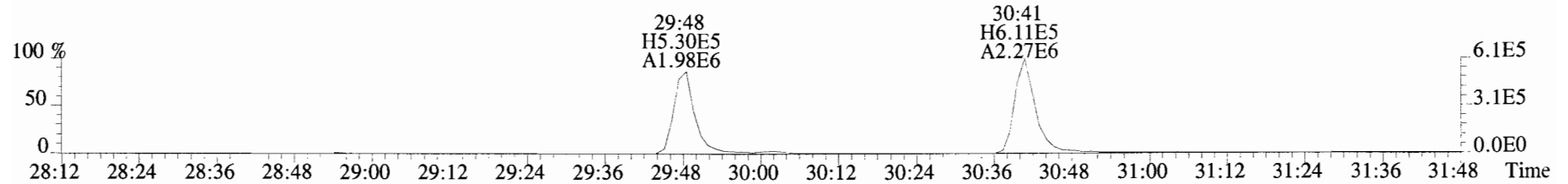




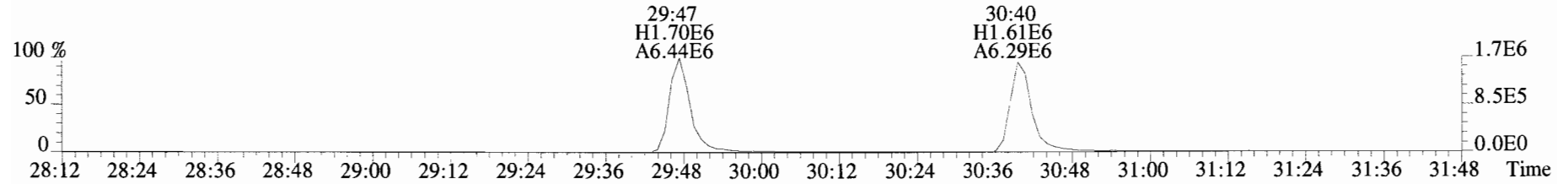
File:191009D1 #1-210 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#8 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
 339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



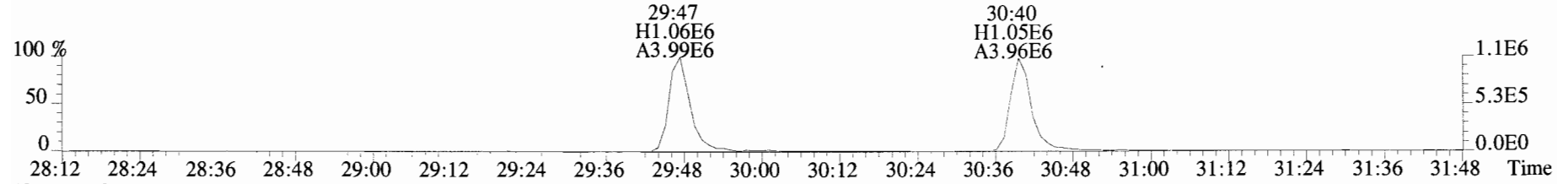
341.8568 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



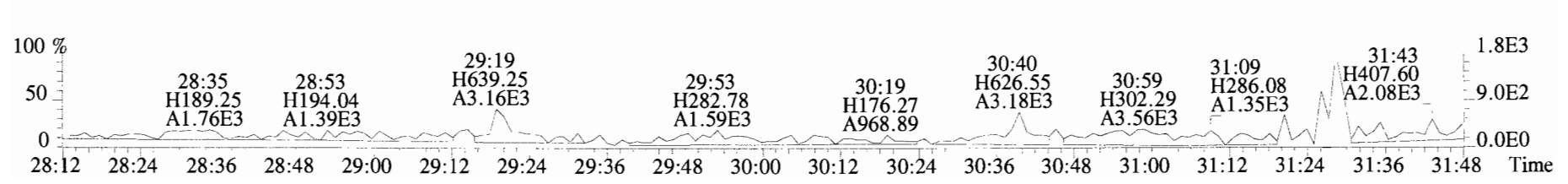
351.9000 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



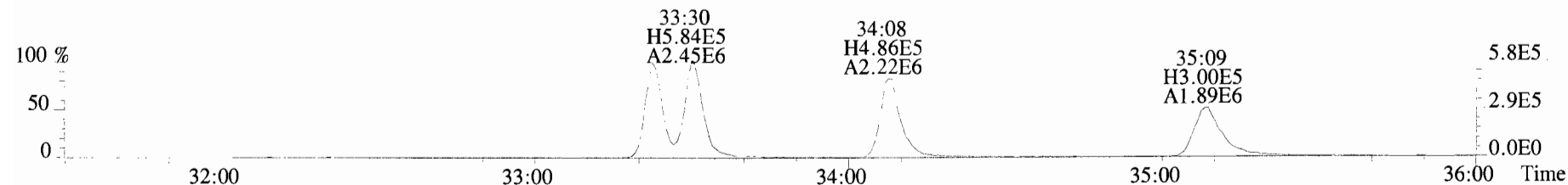
353.8970 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



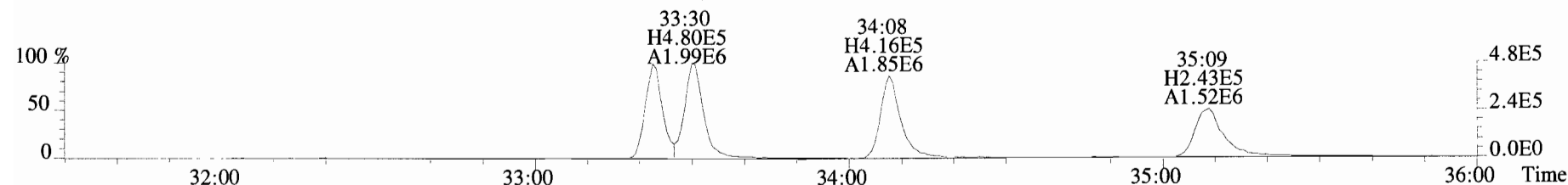
409.7974 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



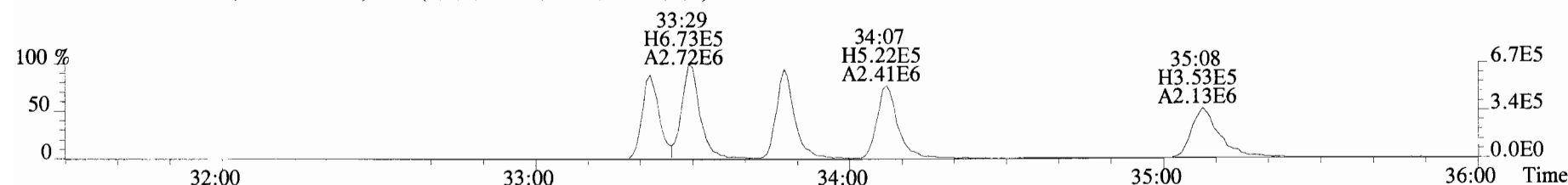
File:191009D1 #1-355 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



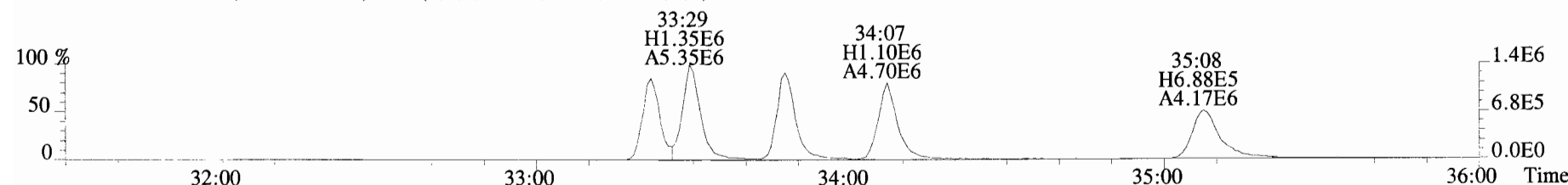
375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



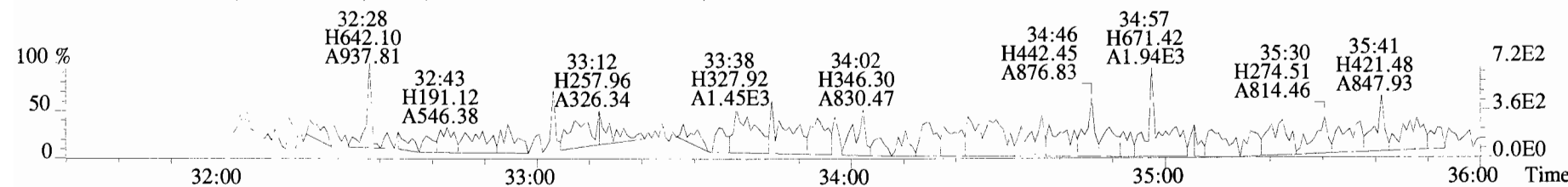
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



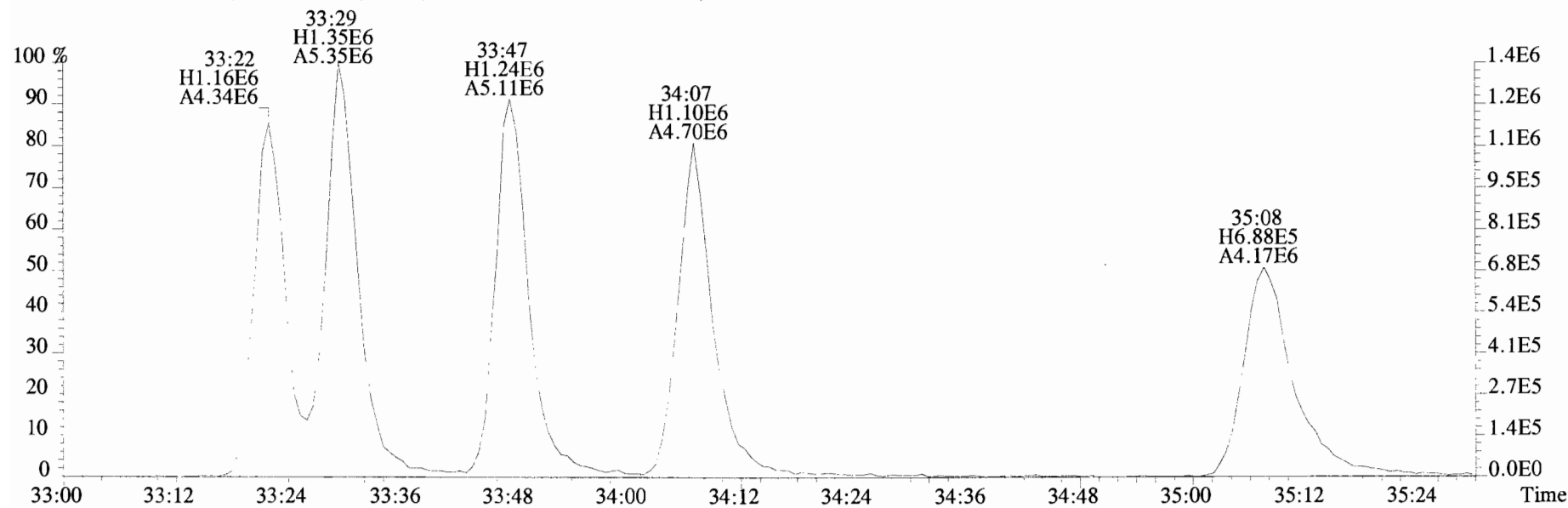
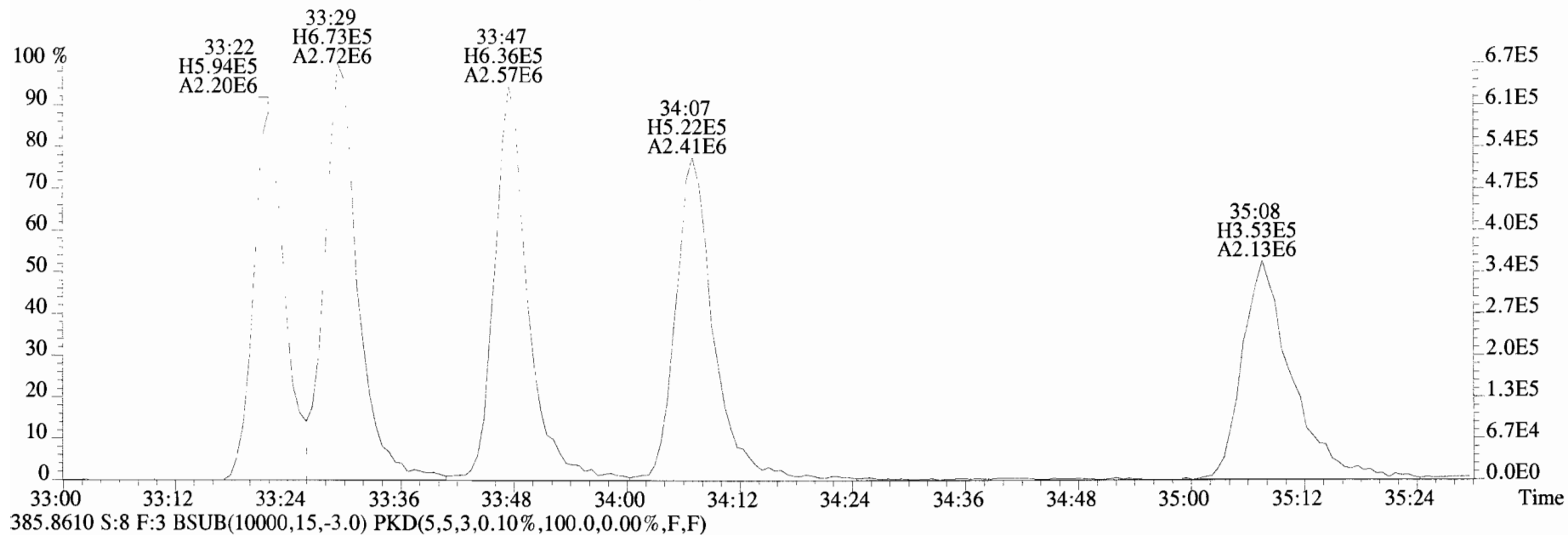
385.8610 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



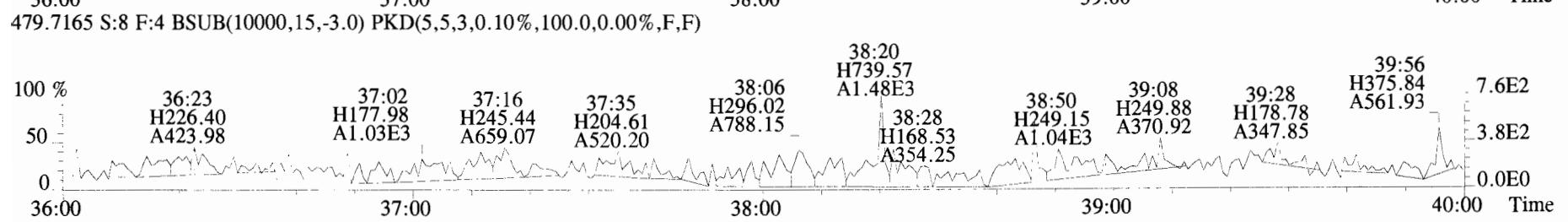
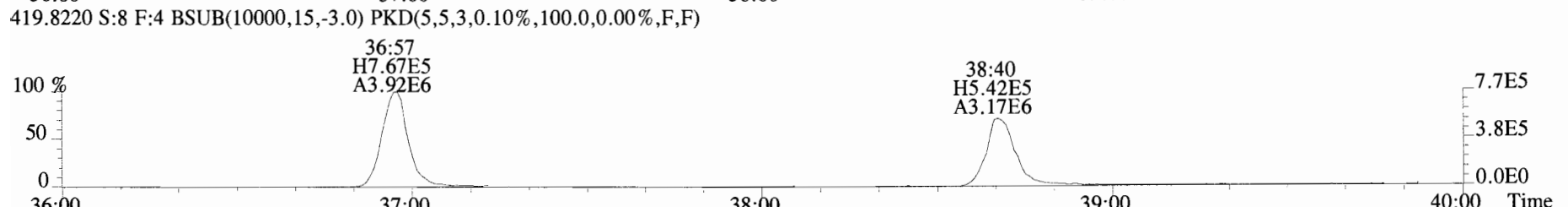
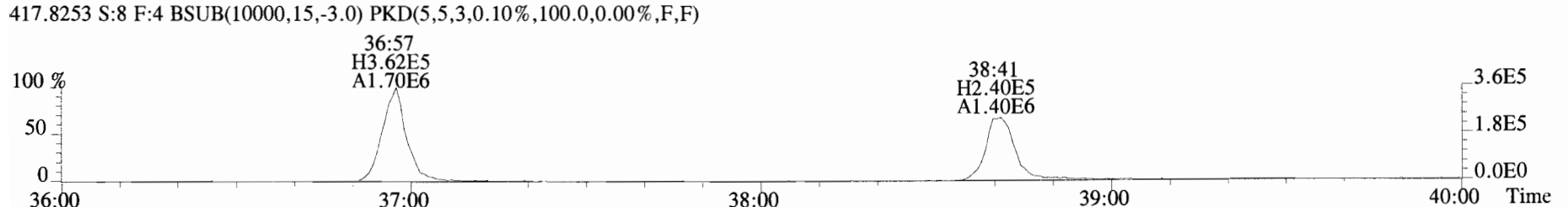
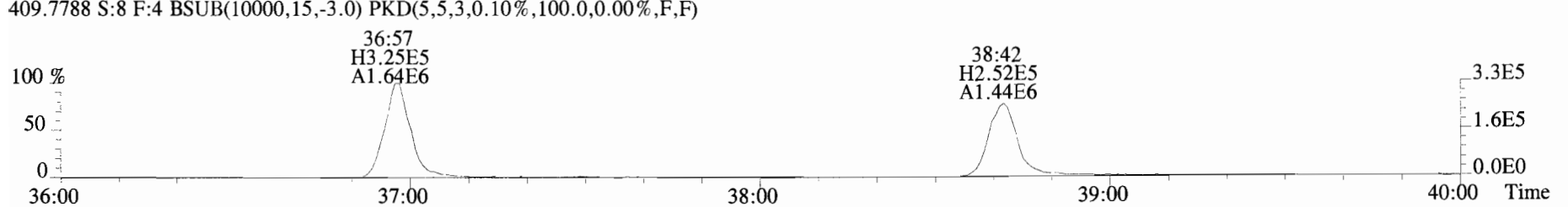
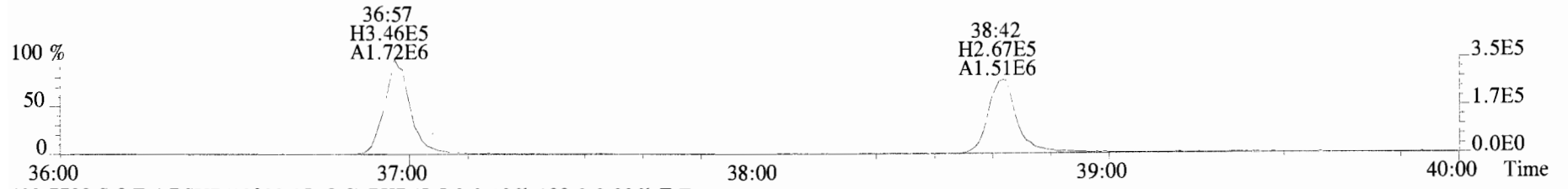
445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



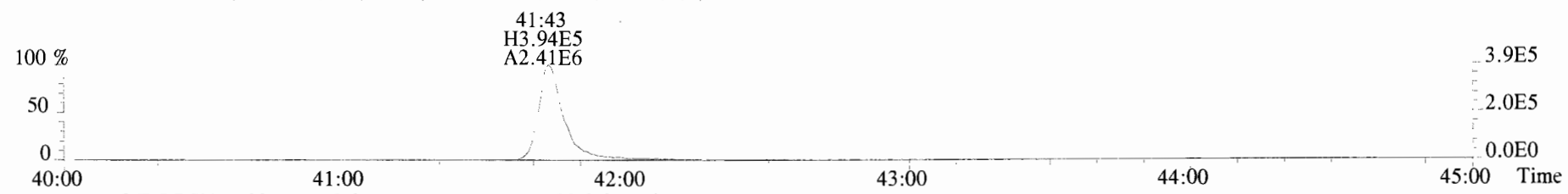
File:191009D1 #1-355 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



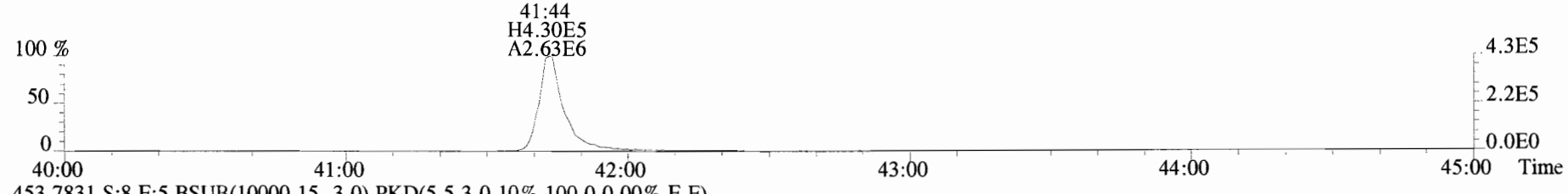
File:191009D1 #1-356 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



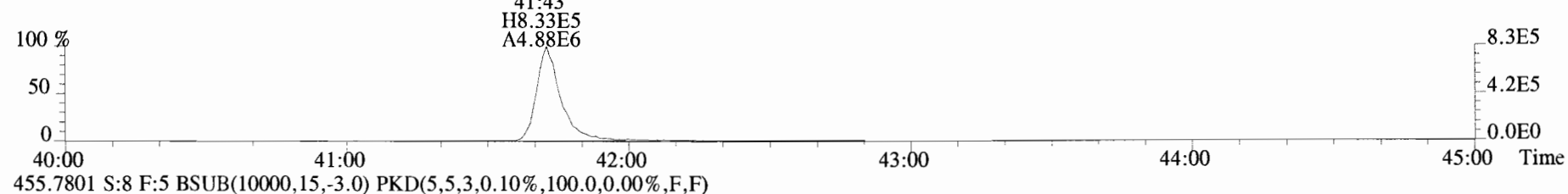
File:191009D1 #1-431 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



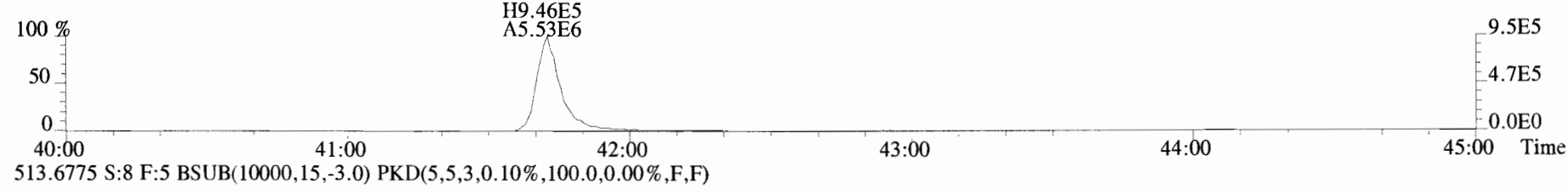
443.7398 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



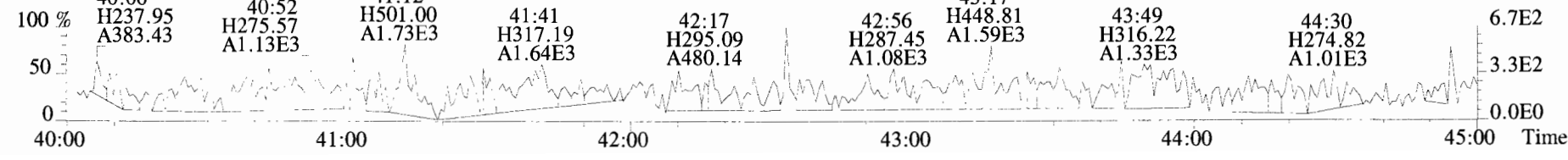
453.7831 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

Last Altered: Wednesday, May 08, 2019 7:55:45 AM Pacific Daylight Time  
 Printed: Wednesday, May 08, 2019 7:57:59 AM Pacific Daylight Time

He 5-8-19

DB 5/20/19

Method: U:\VG11.PRO\MethDB\1613\_rrt-5-7-19.mdb 07 May 2019 12:51:47  
 Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

Compound name: 2,3,7,8-TCDD  
 Response Factor: 0.924948  
 RRF SD: 0.0405637, Relative SD: 4.38551  
 Response type: Internal Std ( Ref 18 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	0.250	0.88	NO	26.34	1.000	1.33e3	5.80e5	0.247	-1.2	0.914	MM
2	190507K1_3	10.0	0.78	NO	26.36	1.001	5.65e4	6.19e5	9.87	-1.3	0.913	MM
3	190507K1_4	0.500	0.80	NO	26.36	1.001	3.15e3	6.64e5	0.513	2.7	0.950	MM
4	190507K1_5	2.00	0.79	NO	26.34	1.001	1.19e4	6.91e5	1.85	-7.3	0.857	MM
5	190507K1_6	40.0	0.78	NO	26.36	1.001	2.26e5	6.01e5	40.7	1.8	0.941	bb
6	190507K1_7	300	0.78	NO	26.36	1.001	2.60e6	8.87e5	316	5.4	0.975	bb

Compound name: 1,2,3,7,8-PeCDD  
 Response Factor: 0.904644  
 RRF SD: 0.0649505, Relative SD: 7.17968  
 Response type: Internal Std ( Ref 19 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	1.25	0.67	NO	31.14	1.001	4.13e3	3.79e5	1.20	-3.7	0.871	MM
2	190507K1_3	50.0	0.63	NO	31.14	1.001	1.80e5	4.47e5	44.5	-11.0	0.806	MM
3	190507K1_4	2.50	0.57	NO	31.14	1.001	1.07e4	4.65e5	2.54	1.6	0.919	bb
4	190507K1_5	10.0	0.66	NO	31.14	1.001	4.19e4	4.73e5	9.78	-2.2	0.885	MM
5	190507K1_6	200	0.61	NO	31.14	1.001	8.32e5	4.25e5	216	8.1	0.978	bb
6	190507K1_7	1500	0.62	NO	31.14	1.001	1.00e7	6.89e5	1610	7.1	0.969	MM

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

Last Altered: Wednesday, May 08, 2019 7:55:45 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:57:59 AM Pacific Daylight Time

**Compound name: 1,2,3,4,7,8-HxCDD**

Response Factor: 1.06909

RRF SD: 0.071776, Relative SD: 6.71372

Response type: Internal Std ( Ref 20 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190507K1_2	1.25	1.38	NO	34.42	1.001	3.85e3	3.03e5	1.19	-4.8	1.02	bd
2	190507K1_3	50.0	1.28	NO	34.42	1.000	1.76e5	3.36e5	49.0	-2.0	1.05	bd
3	190507K1_4	2.50	1.25	NO	34.41	1.000	8.65e3	3.49e5	2.32	-7.4	0.990	bd
4	190507K1_5	10.0	1.24	NO	34.41	1.000	3.88e4	3.69e5	9.82	-1.8	1.05	MM
5	190507K1_6	200	1.25	NO	34.41	1.000	7.36e5	3.27e5	210	5.2	1.13	bd
6	190507K1_7	1500	1.25	NO	34.42	1.001	9.53e6	5.37e5	1660	10.7	1.18	bd

**Compound name: 1,2,3,6,7,8-HxCDD**

Response Factor: 0.967479

RRF SD: 0.0402916, Relative SD: 4.16459

Response type: Internal Std ( Ref 21 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190507K1_2	1.25	1.40	NO	34.53	1.001	4.41e3	3.71e5	1.23	-1.6	0.952	MM
2	190507K1_3	50.0	1.26	NO	34.53	1.000	1.92e5	4.10e5	48.5	-3.0	0.938	db
3	190507K1_4	2.50	1.17	NO	34.53	1.001	9.34e3	4.07e5	2.37	-5.1	0.918	MM
4	190507K1_5	10.0	1.22	NO	34.52	1.000	4.16e4	4.30e5	9.99	-0.1	0.967	db
5	190507K1_6	200	1.25	NO	34.52	1.000	7.88e5	3.86e5	211	5.5	1.02	db
6	190507K1_7	1500	1.25	NO	34.52	1.000	1.02e7	6.73e5	1560	4.3	1.01	db

**Compound name: 1,2,3,7,8,9-HxCDD**

Response Factor: 0.977795

RRF SD: 0.0369, Relative SD: 3.7738

Response type: Internal Std ( Ref 22 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190507K1_2	1.25	1.09	NO	34.81	1.000	3.66e3	2.90e5	1.29	3.2	1.01	MM
2	190507K1_3	50.0	1.35	NO	34.81	1.000	1.63e5	3.44e5	48.4	-3.2	0.947	bb

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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**Compound name: 1,2,3,7,8,9-HxCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190507K1_4	2.50	1.22	NO	34.80	1.000	8.28e3	3.44e5	2.46	-1.4	0.964	MM
4	190507K1_5	10.0	1.22	NO	34.80	1.000	3.65e4	3.93e5	9.51	-4.9	0.929	bb
5	190507K1_6	200	1.22	NO	34.80	1.000	6.68e5	3.27e5	209	4.6	1.02	MM
6	190507K1_7	1500	1.20	NO	34.81	1.000	8.68e6	5.82e5	1530	1.8	0.995	MM

**Compound name: 1,2,3,4,6,7,8-HpCDD**

Response Factor: 1.03751

RRF SD: 0.0369608, Relative SD: 3.56246

Response type: Internal Std ( Ref 23 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	1.25	0.97	NO	38.32	1.001	3.20e3	2.52e5	1.23	-1.9	1.02	MM
2	190507K1_3	50.0	1.03	NO	38.32	1.000	1.42e5	2.76e5	49.5	-0.9	1.03	bb
3	190507K1_4	2.50	1.16	NO	38.31	1.000	7.08e3	2.70e5	2.53	1.0	1.05	bb
4	190507K1_5	10.0	1.05	NO	38.31	1.000	2.98e4	3.04e5	9.46	-5.4	0.981	MM
5	190507K1_6	200	1.03	NO	38.31	1.000	5.83e5	2.74e5	205	2.5	1.06	MM
6	190507K1_7	1500	1.05	NO	38.31	1.000	7.58e6	4.65e5	1570	4.8	1.09	bb

**Compound name: OCDD**

Response Factor: 0.971773

RRF SD: 0.0504127, Relative SD: 5.1877

Response type: Internal Std ( Ref 24 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	2.50	0.90	NO	41.48	1.001	5.20e3	4.62e5	2.32	-7.4	0.900	MM
2	190507K1_3	100	0.90	NO	41.48	1.000	2.35e5	4.72e5	103	2.6	0.997	MM
3	190507K1_4	5.00	0.95	NO	41.46	1.000	1.13e4	4.66e5	4.97	-0.5	0.966	MM
4	190507K1_5	20.0	0.89	NO	41.47	1.000	4.71e4	5.06e5	19.2	-4.2	0.931	MM
5	190507K1_6	400	0.90	NO	41.47	1.000	9.61e5	4.83e5	410	2.4	0.995	MM
6	190507K1_7	3000	0.90	NO	41.48	1.000	1.35e7	8.65e5	3210	7.0	1.04	MM



Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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**Compound name: 2,3,7,8-TCDF**

Response Factor: 0.937613

RRF SD: 0.0427885, Relative SD: 4.56356

Response type: Internal Std ( Ref 25 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	0.250	0.81	NO	25.50	1.001	1.85e3	8.07e5	0.245	-2.1	0.918	MM
2	190507K1_3	10.0	0.78	NO	25.51	1.001	7.75e4	8.61e5	9.59	-4.1	0.899	bb
3	190507K1_4	0.500	0.80	NO	25.50	1.001	4.06e3	8.97e5	0.482	-3.6	0.904	MM
4	190507K1_5	2.00	0.77	NO	25.50	1.001	1.71e4	9.28e5	1.97	-1.7	0.922	bb
5	190507K1_6	40.0	0.77	NO	25.50	1.001	3.18e5	8.09e5	42.0	5.0	0.984	bb
6	190507K1_7	300	0.78	NO	25.51	1.001	3.44e6	1.15e6	320	6.5	0.999	bb

**Compound name: 1,2,3,7,8-PeCDF**

Response Factor: 0.976196

RRF SD: 0.0578773, Relative SD: 5.92886

Response type: Internal Std ( Ref 26 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	1.25	1.71	NO	29.89	1.000	6.85e3	6.20e5	1.13	-9.3	0.885	MM
2	190507K1_3	50.0	1.58	NO	29.91	1.001	3.23e5	6.71e5	49.3	-1.4	0.962	bb
3	190507K1_4	2.50	1.55	NO	29.89	1.000	1.67e4	6.91e5	2.48	-0.8	0.968	MM
4	190507K1_5	10.0	1.65	NO	29.89	1.000	6.93e4	7.19e5	9.86	-1.4	0.963	bd
5	190507K1_6	200	1.63	NO	29.89	1.000	1.34e6	6.45e5	213	6.7	1.04	bd
6	190507K1_7	1500	1.57	NO	29.91	1.001	1.58e7	1.02e6	1590	6.3	1.04	bb

**Compound name: 2,3,4,7,8-PeCDF**

Response Factor: 1.00488

RRF SD: 0.0625517, Relative SD: 6.22482

Response type: Internal Std ( Ref 27 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	1.25	1.69	NO	30.86	1.001	6.68e3	5.77e5	1.15	-7.8	0.926	MM
2	190507K1_3	50.0	1.58	NO	30.86	1.001	3.17e5	6.35e5	49.7	-0.5	1.00	bb

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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**Compound name: 2,3,4,7,8-PeCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190507K1_4	2.50	1.59	NO	30.86	1.001	1.67e4	6.65e5	2.50	0.0	1.00	bb
4	190507K1_5	10.0	1.58	NO	30.86	1.001	6.82e4	7.20e5	9.42	-5.8	0.947	bb
5	190507K1_6	200	1.58	NO	30.86	1.001	1.34e6	6.22e5	214	6.9	1.07	bb
6	190507K1_7	1500	1.58	NO	30.86	1.001	1.61e7	9.94e5	1610	7.2	1.08	bb

**Compound name: 1,2,3,4,7,8-HxCDF**

Response Factor: 1.24344

RRF SD: 0.0556273, Relative SD: 4.47366

Response type: Internal Std ( Ref 28 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	1.25	1.34	NO	33.54	1.000	6.00e3	4.01e5	1.20	-3.7	1.20	bd
2	190507K1_3	50.0	1.25	NO	33.56	1.001	2.69e5	4.41e5	49.1	-1.8	1.22	bd
3	190507K1_4	2.50	1.24	NO	33.54	1.001	1.35e4	4.57e5	2.38	-4.9	1.18	bd
4	190507K1_5	10.0	1.26	NO	33.54	1.001	5.97e4	4.82e5	9.96	-0.4	1.24	bd
5	190507K1_6	200	1.24	NO	33.54	1.000	1.10e6	4.20e5	211	5.5	1.31	bd
6	190507K1_7	1500	1.24	NO	33.54	1.000	1.38e7	7.03e5	1580	5.4	1.31	bd

**Compound name: 1,2,3,6,7,8-HxCDF**

Response Factor: 1.09501

RRF SD: 0.0731388, Relative SD: 6.67929

Response type: Internal Std ( Ref 29 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	1.25	1.35	NO	33.67	1.000	6.12e3	4.90e5	1.14	-8.8	0.999	MM
2	190507K1_3	50.0	1.26	NO	33.68	1.000	3.02e5	5.46e5	50.5	1.0	1.11	MM
3	190507K1_4	2.50	1.14	NO	33.68	1.001	1.42e4	5.55e5	2.33	-6.7	1.02	MM
4	190507K1_5	10.0	1.22	NO	33.67	1.000	6.32e4	5.73e5	10.1	0.7	1.10	MM
5	190507K1_6	200	1.23	NO	33.67	1.000	1.18e6	5.09e5	211	5.5	1.16	db
6	190507K1_7	1500	1.24	NO	33.68	1.000	1.52e7	8.53e5	1620	8.3	1.19	db

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**Compound name: 2,3,4,6,7,8-HxCDF**

Response Factor: 1.1806

RRF SD: 0.0976101, Relative SD: 8.26786

Response type: Internal Std ( Ref 30 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190507K1_2	1.25	1.22	NO	34.26	1.000	5.74e3	4.48e5	1.09	-13.1	1.03	MM
2	190507K1_3	50.0	1.26	NO	34.27	1.001	2.75e5	4.57e5	51.0	2.0	1.20	bb
3	190507K1_4	2.50	1.27	NO	34.26	1.000	1.40e4	4.86e5	2.43	-2.7	1.15	bd
4	190507K1_5	10.0	1.22	NO	34.26	1.001	5.76e4	5.05e5	9.67	-3.3	1.14	MM
5	190507K1_6	200	1.25	NO	34.26	1.001	1.12e6	4.40e5	216	8.1	1.28	bb
6	190507K1_7	1500	1.24	NO	34.26	1.000	1.40e7	7.27e5	1640	9.1	1.29	MM

**Compound name: 1,2,3,7,8,9-HxCDF**

Response Factor: 1.07281

RRF SD: 0.121558, Relative SD: 11.3308

Response type: Internal Std ( Ref 31 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190507K1_2	1.25	1.19	NO	35.17	1.000	3.73e3	3.43e5	1.01	-19.1	0.868	MM
2	190507K1_3	50.0	1.25	NO	35.19	1.000	2.00e5	3.80e5	49.1	-1.8	1.05	MM
3	190507K1_4	2.50	1.26	NO	35.18	1.000	1.02e4	3.91e5	2.42	-3.1	1.04	MM
4	190507K1_5	10.0	1.25	NO	35.18	1.000	4.51e4	4.16e5	10.1	1.1	1.08	MM
5	190507K1_6	200	1.25	NO	35.18	1.001	8.63e5	3.64e5	221	10.4	1.18	MM
6	190507K1_7	1500	1.24	NO	35.19	1.001	1.15e7	6.37e5	1690	12.5	1.21	bb

**Compound name: 1,2,3,4,6,7,8-HpCDF**

Response Factor: 1.12998

RRF SD: 0.056055, Relative SD: 4.96072

Response type: Internal Std ( Ref 32 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190507K1_2	1.25	1.19	NO	36.92	1.001	4.83e3	3.64e5	1.18	-5.9	1.06	MM
2	190507K1_3	50.0	1.05	NO	36.94	1.001	2.21e5	3.98e5	49.3	-1.5	1.11	bb

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**Compound name: 1,2,3,4,6,7,8-HpCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190507K1_4	2.50	1.03	NO	36.91	1.000	1.12e4	4.08e5	2.44	-2.4	1.10	MM
4	190507K1_5	10.0	1.01	NO	36.91	1.000	4.63e4	4.18e5	9.80	-2.0	1.11	bb
5	190507K1_6	200	1.03	NO	36.91	1.000	8.93e5	3.80e5	208	4.0	1.18	MM
6	190507K1_7	1500	1.04	NO	36.92	1.000	1.14e7	6.22e5	1620	7.7	1.22	bb

**Compound name: 1,2,3,4,7,8,9-HpCDF**

Response Factor: 1.26094

RRF SD: 0.121952, Relative SD: 9.67152

Response type: Internal Std ( Ref 33 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	1.25	1.07	NO	38.86	1.000	4.31e3	2.51e5	1.36	9.0	1.37	MM
2	190507K1_3	50.0	1.10	NO	38.87	1.000	1.69e5	2.88e5	46.4	-7.1	1.17	MM
3	190507K1_4	2.50	1.04	NO	38.86	1.000	8.36e3	2.91e5	2.28	-9.0	1.15	MM
4	190507K1_5	10.0	1.04	NO	38.86	1.000	3.47e4	3.06e5	8.99	-10.1	1.13	MM
5	190507K1_6	200	1.06	NO	38.86	1.000	7.19e5	2.58e5	221	10.3	1.39	bb
6	190507K1_7	1500	1.03	NO	38.87	1.000	9.34e6	4.62e5	1600	6.9	1.35	bb

**Compound name: OCDF**

Response Factor: 1.10253

RRF SD: 0.218115, Relative SD: 19.7831

Response type: Internal Std ( Ref 34 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	2.50	0.91	NO	41.69	1.000	1.12e4	5.83e5	3.49	39.5	1.54	MM
2	190507K1_3	100	0.90	NO	41.71	1.000	3.03e5	6.08e5	90.4	-9.6	0.997	MM
3	190507K1_4	5.00	0.89	NO	41.70	1.000	1.58e4	6.30e5	4.54	-9.2	1.00	MM
4	190507K1_5	20.0	0.93	NO	41.69	1.000	6.07e4	6.40e5	17.2	-13.9	0.950	MM
5	190507K1_6	400	0.90	NO	41.70	1.000	1.21e6	5.80e5	378	-5.5	1.04	MM
6	190507K1_7	3000	0.91	NO	41.71	1.000	1.71e7	1.05e6	2960	-1.3	1.09	MM

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**Compound name: 13C-2,3,7,8-TCDD**

Response Factor: 1.04889

RRF SD: 0.0285302, Relative SD: 2.72003

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190507K1_2	100	0.78	NO	26.34	1.026	5.80e5	5.62e5	98.5	-1.5	1.03	bb
2	190507K1_3	100	0.80	NO	26.34	1.026	6.19e5	6.00e5	98.4	-1.6	1.03	bb
3	190507K1_4	100	0.78	NO	26.33	1.026	6.64e5	6.32e5	100	0.1	1.05	bb
4	190507K1_5	100	0.78	NO	26.33	1.025	6.91e5	6.60e5	99.9	-0.1	1.05	bb
5	190507K1_6	100	0.79	NO	26.34	1.026	6.01e5	5.86e5	97.8	-2.2	1.03	bb
6	190507K1_7	100	0.78	NO	26.34	1.026	8.87e5	8.04e5	105	5.3	1.10	bb

**Compound name: 13C-1,2,3,7,8-PeCDD**

Response Factor: 0.7429

RRF SD: 0.0610463, Relative SD: 8.21729

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190507K1_2	100	0.63	NO	31.12	1.212	3.79e5	5.62e5	90.9	-9.1	0.675	MM
2	190507K1_3	100	0.61	NO	31.12	1.212	4.47e5	6.00e5	100	0.4	0.746	bb
3	190507K1_4	100	0.64	NO	31.12	1.212	4.65e5	6.32e5	99.1	-0.9	0.736	bb
4	190507K1_5	100	0.59	NO	31.12	1.212	4.73e5	6.60e5	96.5	-3.5	0.717	MM
5	190507K1_6	100	0.60	NO	31.12	1.212	4.25e5	5.86e5	97.8	-2.2	0.726	MM
6	190507K1_7	100	0.63	NO	31.12	1.212	6.89e5	8.04e5	115	15.4	0.857	MM

**Compound name: 13C-1,2,3,4,7,8-HxCDD**

Response Factor: 0.646258

RRF SD: 0.0314471, Relative SD: 4.86603

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190507K1_2	100	1.34	NO	34.40	1.014	3.03e5	4.98e5	94.1	-5.9	0.608	bd
2	190507K1_3	100	1.24	NO	34.41	1.014	3.36e5	5.10e5	102	1.8	0.658	bd

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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**Compound name: 13C-1,2,3,4,7,8-HxCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190507K1_4	100	1.31	NO	34.40	1.014	3.49e5	5.59e5	96.7	-3.3	0.625	bd
4	190507K1_5	100	1.32	NO	34.40	1.014	3.69e5	5.73e5	99.7	-0.3	0.644	MM
5	190507K1_6	100	1.26	NO	34.40	1.014	3.27e5	5.09e5	99.5	-0.5	0.643	bd
6	190507K1_7	100	1.27	NO	34.40	1.014	5.37e5	7.67e5	108	8.3	0.700	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDD**

Response Factor: 0.776669

RRF SD: 0.0552613, Relative SD: 7.11516

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	100	1.28	NO	34.51	1.017	3.71e5	4.98e5	95.9	-4.1	0.745	MM
2	190507K1_3	100	1.25	NO	34.52	1.017	4.10e5	5.10e5	103	3.3	0.802	db
3	190507K1_4	100	1.28	NO	34.51	1.017	4.07e5	5.59e5	93.6	-6.4	0.727	MM
4	190507K1_5	100	1.26	NO	34.51	1.017	4.30e5	5.73e5	96.7	-3.3	0.751	db
5	190507K1_6	100	1.28	NO	34.51	1.017	3.86e5	5.09e5	97.5	-2.5	0.758	db
6	190507K1_7	100	1.27	NO	34.51	1.017	6.73e5	7.67e5	113	12.9	0.877	db

**Compound name: 13C-1,2,3,7,8,9-HxCDD**

Response Factor: 0.659499

RRF SD: 0.0613845, Relative SD: 9.30774

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	100	1.25	NO	34.80	1.025	2.90e5	4.98e5	88.4	-11.6	0.583	MM
2	190507K1_3	100	1.18	NO	34.80	1.025	3.44e5	5.10e5	102	2.2	0.674	MM
3	190507K1_4	100	1.26	NO	34.78	1.025	3.44e5	5.59e5	93.2	-6.8	0.615	MM
4	190507K1_5	100	1.25	NO	34.78	1.025	3.93e5	5.73e5	104	3.9	0.685	bb
5	190507K1_6	100	1.32	NO	34.78	1.025	3.27e5	5.09e5	97.3	-2.7	0.642	MM
6	190507K1_7	100	1.25	NO	34.80	1.026	5.82e5	7.67e5	115	15.0	0.758	bb

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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**Compound name: 13C-1,2,3,4,6,7,8-HpCDD**

Response Factor: 0.534168  
 RRF SD: 0.0414632, Relative SD: 7.76221  
 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	100	1.01	NO	38.30	1.128	2.52e5	4.98e5	94.6	-5.4	0.506	MM
2	190507K1_3	100	1.05	NO	38.31	1.129	2.76e5	5.10e5	101	1.3	0.541	MM
3	190507K1_4	100	1.06	NO	38.30	1.129	2.70e5	5.59e5	90.5	-9.5	0.484	MM
4	190507K1_5	100	1.09	NO	38.30	1.129	3.04e5	5.73e5	99.3	-0.7	0.530	MM
5	190507K1_6	100	1.06	NO	38.30	1.129	2.74e5	5.09e5	101	0.8	0.539	MM
6	190507K1_7	100	1.07	NO	38.31	1.129	4.65e5	7.67e5	113	13.4	0.606	bb

**Compound name: 13C-OCDD**

Response Factor: 0.470365  
 RRF SD: 0.0499896, Relative SD: 10.6278  
 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	200	0.91	NO	41.46	1.221	4.62e5	4.98e5	198	-1.2	0.465	MM
2	190507K1_3	200	0.89	NO	41.47	1.222	4.72e5	5.10e5	196	-1.8	0.462	MM
3	190507K1_4	200	0.89	NO	41.46	1.222	4.66e5	5.59e5	177	-11.4	0.417	MM
4	190507K1_5	200	0.89	NO	41.46	1.222	5.06e5	5.73e5	188	-6.2	0.441	MM
5	190507K1_6	200	0.91	NO	41.46	1.222	4.83e5	5.09e5	202	0.8	0.474	MM
6	190507K1_7	200	0.90	NO	41.47	1.222	8.65e5	7.67e5	240	19.8	0.563	MM

**Compound name: 13C-2,3,7,8-TCDF**

Response Factor: 0.9775  
 RRF SD: 0.00806645, Relative SD: 0.825212  
 Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	100	0.79	NO	25.48	0.992	8.07e5	8.33e5	99.2	-0.8	0.970	bb
2	190507K1_3	100	0.76	NO	25.48	0.992	8.61e5	8.73e5	101	0.9	0.987	bb

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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**Compound name: 13C-2,3,7,8-TCDF**

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3 190507K1_4	100	0.78	NO	25.48	0.993	8.97e5	9.16e5	100	0.2	0.979	bb
4 190507K1_5	100	0.78	NO	25.48	0.992	9.28e5	9.50e5	99.9	-0.1	0.977	bb
5 190507K1_6	100	0.77	NO	25.48	0.992	8.09e5	8.36e5	98.9	-1.1	0.967	bb
6 190507K1_7	100	0.79	NO	25.48	0.992	1.15e6	1.17e6	101	0.8	0.986	bb

**Compound name: 13C-1,2,3,7,8-PeCDF**

Response Factor: 0.777829

RRF SD: 0.0468157, Relative SD: 6.01876

Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1 190507K1_2	100	1.64	NO	29.89	1.164	6.20e5	8.33e5	95.7	-4.3	0.744	bd
2 190507K1_3	100	1.52	NO	29.89	1.164	6.71e5	8.73e5	98.8	-1.2	0.769	bb
3 190507K1_4	100	1.58	NO	29.89	1.165	6.91e5	9.16e5	97.0	-3.0	0.754	bb
4 190507K1_5	100	1.58	NO	29.89	1.164	7.19e5	9.50e5	97.4	-2.6	0.758	bb
5 190507K1_6	100	1.57	NO	29.89	1.164	6.45e5	8.36e5	99.1	-0.9	0.771	bb
6 190507K1_7	100	1.58	NO	29.89	1.164	1.02e6	1.17e6	112	12.0	0.871	bb

**Compound name: 13C-2,3,4,7,8-PeCDF**

Response Factor: 0.749922

RRF SD: 0.0548586, Relative SD: 7.31524

Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1 190507K1_2	100	1.56	NO	30.84	1.201	5.77e5	8.33e5	92.4	-7.6	0.693	bb
2 190507K1_3	100	1.60	NO	30.84	1.201	6.35e5	8.73e5	97.0	-3.0	0.727	bb
3 190507K1_4	100	1.61	NO	30.84	1.201	6.65e5	9.16e5	96.8	-3.2	0.726	bb
4 190507K1_5	100	1.58	NO	30.84	1.201	7.20e5	9.50e5	101	1.1	0.758	bb
5 190507K1_6	100	1.58	NO	30.84	1.201	6.22e5	8.36e5	99.1	-0.9	0.743	bb
6 190507K1_7	100	1.59	NO	30.84	1.201	9.94e5	1.17e6	114	13.7	0.853	bb



Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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**Compound name: 13C-1,2,3,4,7,8-HxCDF**

Response Factor: 0.845154

RRF SD: 0.04026, Relative SD: 4.76363

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190507K1_2	100	0.52	NO	33.53	0.988	4.01e5	4.98e5	95.3	-4.7	0.806	bd
2	190507K1_3	100	0.52	NO	33.53	0.988	4.41e5	5.10e5	102	2.3	0.864	bd
3	190507K1_4	100	0.51	NO	33.52	0.988	4.57e5	5.59e5	96.8	-3.2	0.818	bd
4	190507K1_5	100	0.52	NO	33.52	0.988	4.82e5	5.73e5	99.5	-0.5	0.841	bd
5	190507K1_6	100	0.52	NO	33.53	0.988	4.20e5	5.09e5	97.7	-2.3	0.826	bd
6	190507K1_7	100	0.53	NO	33.53	0.988	7.03e5	7.67e5	108	8.4	0.916	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDF**

Response Factor: 1.02668

RRF SD: 0.0516295, Relative SD: 5.02879

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190507K1_2	100	0.53	NO	33.65	0.992	4.90e5	4.98e5	96.0	-4.0	0.986	db
2	190507K1_3	100	0.53	NO	33.67	0.992	5.46e5	5.10e5	104	4.2	1.07	db
3	190507K1_4	100	0.53	NO	33.65	0.992	5.55e5	5.59e5	96.7	-3.3	0.993	db
4	190507K1_5	100	0.54	NO	33.65	0.992	5.73e5	5.73e5	97.4	-2.6	1.00	MM
5	190507K1_6	100	0.52	NO	33.65	0.992	5.09e5	5.09e5	97.4	-2.6	1.00	db
6	190507K1_7	100	0.52	NO	33.67	0.992	8.53e5	7.67e5	108	8.3	1.11	db

**Compound name: 13C-2,3,4,6,7,8-HxCDF**

Response Factor: 0.89286

RRF SD: 0.0303616, Relative SD: 3.40049

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190507K1_2	100	0.50	NO	34.25	1.009	4.48e5	4.98e5	101	0.8	0.900	bb
2	190507K1_3	100	0.52	NO	34.25	1.009	4.57e5	5.10e5	100	0.2	0.895	bb

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**Compound name: 13C-2,3,4,6,7,8-HxCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	190507K1_4	100	0.53	NO	34.25	1.009	4.86e5	5.59e5	97.2	-2.8	0.868	bb
4	190507K1_5	100	0.53	NO	34.24	1.009	5.05e5	5.73e5	98.7	-1.3	0.881	MM
5	190507K1_6	100	0.52	NO	34.24	1.009	4.40e5	5.09e5	96.9	-3.1	0.865	MM
6	190507K1_7	100	0.52	NO	34.25	1.009	7.27e5	7.67e5	106	6.2	0.948	bb

**Compound name: 13C-1,2,3,7,8,9-HxCDF**

Response Factor: 0.734263

RRF SD: 0.05054, Relative SD: 6.88309

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190507K1_2	100	0.53	NO	35.17	1.036	3.43e5	4.98e5	94.0	-6.0	0.690	MM
2	190507K1_3	100	0.51	NO	35.18	1.036	3.80e5	5.10e5	101	1.5	0.745	bb
3	190507K1_4	100	0.52	NO	35.17	1.036	3.91e5	5.59e5	95.3	-4.7	0.700	MM
4	190507K1_5	100	0.53	NO	35.17	1.037	4.16e5	5.73e5	98.8	-1.2	0.725	MM
5	190507K1_6	100	0.54	NO	35.16	1.036	3.64e5	5.09e5	97.5	-2.5	0.716	MM
6	190507K1_7	100	0.52	NO	35.17	1.036	6.37e5	7.67e5	113	13.0	0.830	MM

**Compound name: 13C-1,2,3,4,6,7,8-HpCDF**

Response Factor: 0.75417

RRF SD: 0.0338797, Relative SD: 4.49232

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190507K1_2	100	0.47	NO	36.90	1.087	3.64e5	4.98e5	96.9	-3.1	0.731	bb
2	190507K1_3	100	0.45	NO	36.91	1.088	3.98e5	5.10e5	103	3.3	0.779	bd
3	190507K1_4	100	0.43	NO	36.90	1.088	4.08e5	5.59e5	96.7	-3.3	0.729	bb
4	190507K1_5	100	0.47	NO	36.90	1.088	4.18e5	5.73e5	96.7	-3.3	0.729	bd
5	190507K1_6	100	0.45	NO	36.90	1.088	3.80e5	5.09e5	98.9	-1.1	0.746	bd
6	190507K1_7	100	0.45	NO	36.91	1.088	6.22e5	7.67e5	108	7.6	0.811	bb

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**Compound name: 13C-1,2,3,4,7,8,9-HpCDF**

Response Factor: 0.53899

RRF SD: 0.0380601, Relative SD: 7.06137

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	100	0.45	NO	38.85	1.145	2.51e5	4.98e5	93.5	-6.5	0.504	MM
2	190507K1_3	100	0.44	NO	38.86	1.145	2.88e5	5.10e5	105	4.8	0.565	bd
3	190507K1_4	100	0.42	NO	38.85	1.145	2.91e5	5.59e5	96.6	-3.4	0.521	bb
4	190507K1_5	100	0.43	NO	38.85	1.145	3.06e5	5.73e5	99.2	-0.8	0.535	bb
5	190507K1_6	100	0.43	NO	38.85	1.145	2.58e5	5.09e5	94.1	-5.9	0.507	MM
6	190507K1_7	100	0.46	NO	38.86	1.145	4.62e5	7.67e5	112	11.7	0.602	bd

**Compound name: 13C-OCDF**

Response Factor: 0.592524

RRF SD: 0.046422, Relative SD: 7.83462

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	200	0.89	NO	41.69	1.228	5.83e5	4.98e5	198	-1.2	0.586	MM
2	190507K1_3	200	0.88	NO	41.70	1.229	6.08e5	5.10e5	201	0.6	0.596	MM
3	190507K1_4	200	0.90	NO	41.69	1.229	6.30e5	5.59e5	190	-5.0	0.563	MM
4	190507K1_5	200	0.88	NO	41.68	1.228	6.40e5	5.73e5	188	-5.8	0.558	MM
5	190507K1_6	200	0.90	NO	41.69	1.229	5.80e5	5.09e5	192	-3.8	0.570	MM
6	190507K1_7	200	0.89	NO	41.70	1.229	1.05e6	7.67e5	230	15.2	0.683	MM

**Compound name: 37Cl-2,3,7,8-TCDD**

Response Factor: 1.06948

RRF SD: 0.0767834, Relative SD: 7.17951

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	0.250			26.34	1.026	1.45e3	5.62e5	0.241	-3.6	1.03	bb
2	190507K1_3	10.0			26.36	1.026	6.16e4	6.00e5	9.60	-4.0	1.03	bb

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**Compound name: 37Cl-2,3,7,8-TCDD**

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3 190507K1_4	0.500			26.36	1.027	3.13e3	6.32e5	0.463	-7.4	0.990	bb
4 190507K1_5	2.00			26.36	1.026	1.45e4	6.60e5	2.06	2.8	1.10	bd
5 190507K1_6	40.0			26.36	1.026	2.49e5	5.86e5	39.7	-0.6	1.06	bb
6 190507K1_7	200			26.36	1.026	1.94e6	8.04e5	226	12.9	1.21	bb

**Compound name: 13C-1,2,3,4-TCDD**

Response Factor: 1

RRF SD: 4.96507e-017, Relative SD: 4.96507e-015

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1 190507K1_2	100	0.79	NO	25.68	1.000	5.62e5	5.62e5	100	0.0	1.00	bb
2 190507K1_3	100	0.79	NO	25.68	1.000	6.00e5	6.00e5	100	0.0	1.00	bb
3 190507K1_4	100	0.80	NO	25.67	1.000	6.32e5	6.32e5	100	0.0	1.00	bb
4 190507K1_5	100	0.80	NO	25.68	1.000	6.60e5	6.60e5	100	0.0	1.00	bb
5 190507K1_6	100	0.80	NO	25.68	1.000	5.86e5	5.86e5	100	-0.0	1.00	bb
6 190507K1_7	100	0.77	NO	25.68	1.000	8.04e5	8.04e5	100	0.0	1.00	bb

**Compound name: 13C-1,2,3,4-TCDF**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1 190507K1_2	100	0.81	NO	24.05	1.000	8.33e5	8.33e5	100	0.0	1.00	bb
2 190507K1_3	100	0.80	NO	24.05	1.000	8.73e5	8.73e5	100	0.0	1.00	bb
3 190507K1_4	100	0.79	NO	24.05	1.000	9.16e5	9.16e5	100	0.0	1.00	bb
4 190507K1_5	100	0.78	NO	24.03	1.000	9.50e5	9.50e5	100	0.0	1.00	bb
5 190507K1_6	100	0.78	NO	24.05	1.000	8.36e5	8.36e5	100	0.0	1.00	bb
6 190507K1_7	100	0.79	NO	24.05	1.000	1.17e6	1.17e6	100	0.0	1.00	bb

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

Last Altered: Wednesday, May 08, 2019 7:55:45 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:57:59 AM Pacific Daylight Time

**Compound name: 13C-1,2,3,4,6,9-HxCDF**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190507K1_2	100	0.53	NO	33.94	1.000	4.98e5	4.98e5	100	0.0	1.00	bd
2	190507K1_3	100	0.51	NO	33.94	1.000	5.10e5	5.10e5	100	0.0	1.00	MM
3	190507K1_4	100	0.52	NO	33.93	1.000	5.59e5	5.59e5	100	0.0	1.00	bb
4	190507K1_5	100	0.52	NO	33.93	1.000	5.73e5	5.73e5	100	0.0	1.00	bb
5	190507K1_6	100	0.52	NO	33.93	1.000	5.09e5	5.09e5	100	0.0	1.00	bb
6	190507K1_7	100	0.52	NO	33.93	1.000	7.67e5	7.67e5	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 8:06:43 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 8:06:44 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\CPSM-5-7-19.mdb 07 May 2019 13:29:19

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

#	Name	RT
1	1,3,6,8-TCDD (First)	22.43
2	1,2,8,9-TCDD (Last)	27.29
3	1,2,4,7,9-PeCDD (First)	29.01
4	1,2,3,8,9-PeCDD (Last)	31.50
5	1,2,4,6,7,9-HxCDD (First)	32.92
6	1,2,3,7,8,9-HxCDD (Last)	34.81
7	1,2,3,4,6,7,9-HpCDD (First)	37.32
8	1,2,3,4,6,7,8-HpCDD (Last)	38.32
9	1,3,6,8-TCDF (First)	20.23
10	1,2,8,9-TCDF (Last)	27.46
11	1,3,4,6,8-PeCDF (First)	27.36
12	1,2,3,8,9-PeCDF (Last)	31.76
13	1,2,3,4,6,8-HxCDF (First)	32.39
14	1,2,3,7,8,9-HxCDF (Last)	35.19
15	1,2,3,4,6,7,8-HpCDF (First)	36.94
16	1,2,3,4,7,8,9-HpCDF (Last)	38.87

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 8:00:20 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 8:00:34 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\1613\_rrt-5-7-19.mdb 07 May 2019 12:51:47

Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

Compound name: 2,3,7,8-TCDD

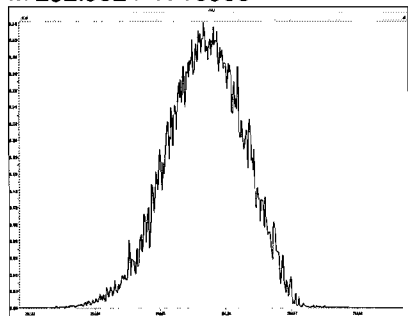
	Name	ID	Acq Date	Acq Time
1	190507K1_1 <sup>(A)</sup>	ST190507K1_1 1613 CS3 18J1008	07-May-19	10:05:54
2	190507K1_2	ST190507K1_2 1613 CS0 19C2201	07-May-19	11:18:22
3	190507K1_3	ST190507K1_3 1613 CS3 19C2204	07-May-19	12:16:36
4	190507K1_4	ST190507K1_4 1613 CS1 19C2202	07-May-19	13:04:59
5	190507K1_5	ST190507K1_5 1613 CS2 19C2203	07-May-19	13:51:47
6	190507K1_6	ST190507K1_6 1613 CS4 19C2205	07-May-19	14:39:24
7	190507K1_7	ST190507K1_7 1613 CS5 19C2206	07-May-19	15:27:02
8	190507K1_8	SS190507K1_1 1613 SSS 19C2207	07-May-19	16:16:59
9	190507K1_9	SOLVENT BLANK	07-May-19	17:12:35
10	190507K1_10	QC190507K1-1 1613 Method Blank 1	07-May-19	18:00:01
11	190507K2_1	ST190507K2_1 1613 CS3 18J1008	07-May-19	18:48:10

<sup>(A)</sup> not used, used to get windows  
in new column 11-5-19

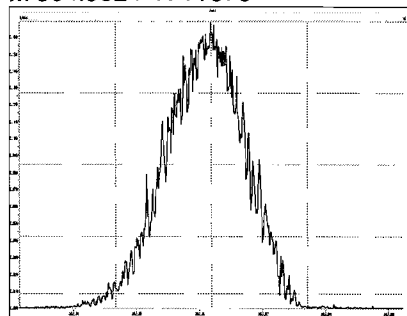
File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, May 07, 2019 11:13:04 Pacific Daylight Time

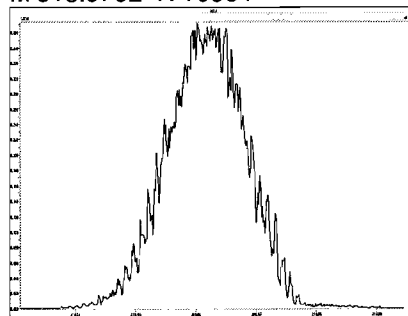
M 292.9824 R 10968



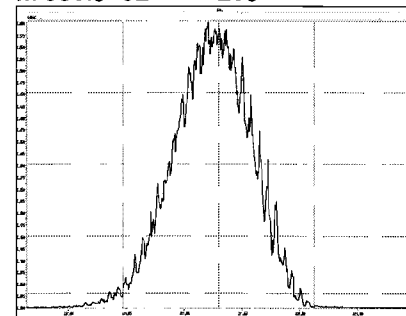
M 304.9824 R 11575



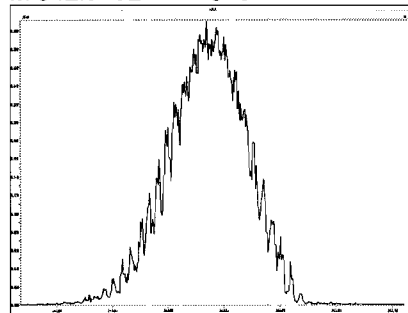
M 318.9792 R 10964



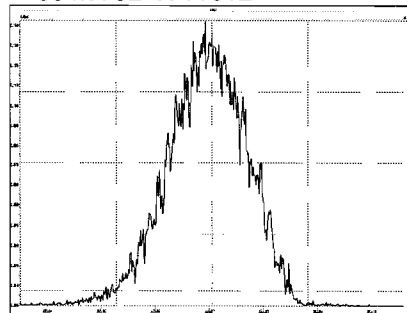
M 330.9792 R 11209



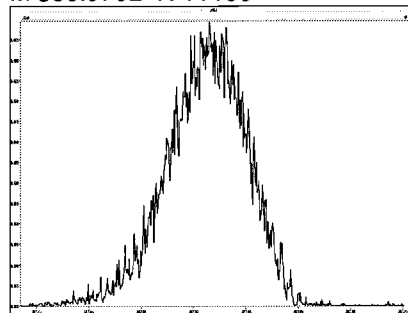
M 342.9792 R 11570



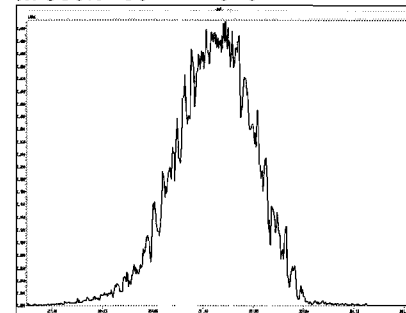
M 354.9792 R 11312



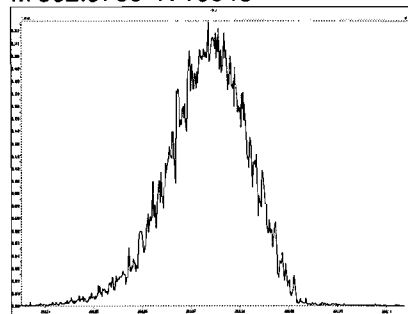
M 366.9792 R 11159



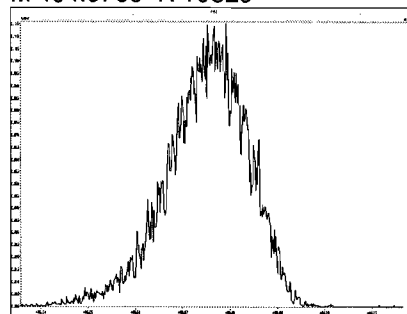
M 380.9760 R 11010



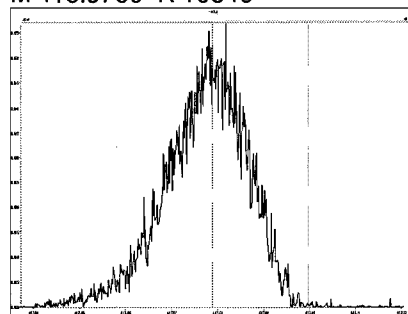
M 392.9760 R 10548



M 404.9760 R 10329



M 416.9760 R 10546

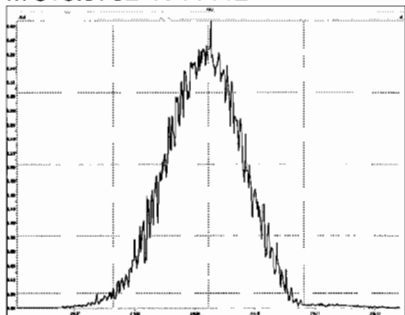




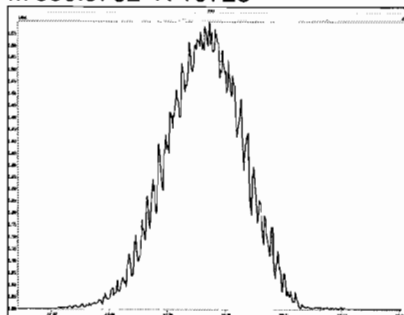
File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, May 07, 2019 11:13:43 Pacific Daylight Time

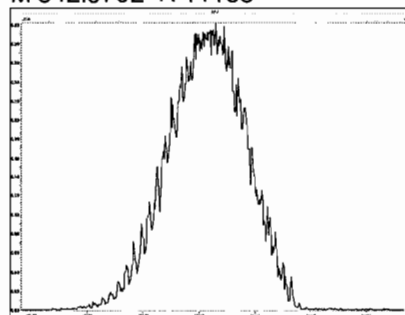
M 318.9792 R 11112



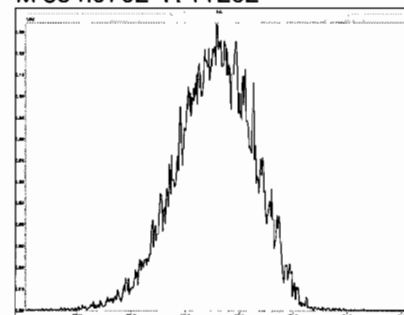
M 330.9792 R 10728



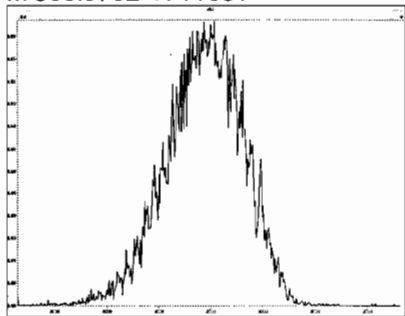
M 342.9792 R 11158



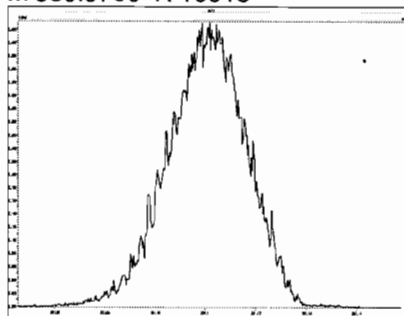
M 354.9792 R 11262



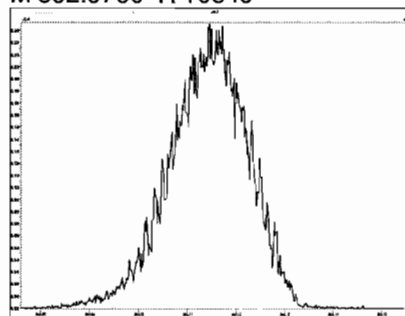
M 366.9792 R 11681



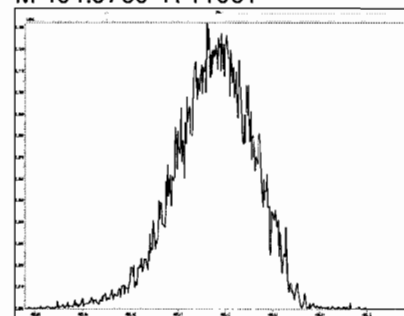
M 380.9760 R 10915



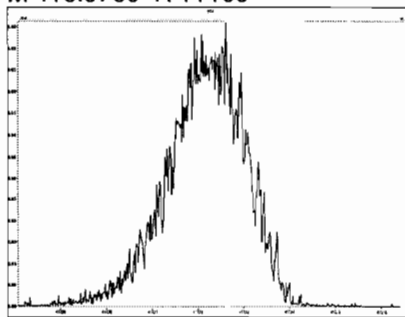
M 392.9760 R 10549



M 404.9760 R 11061



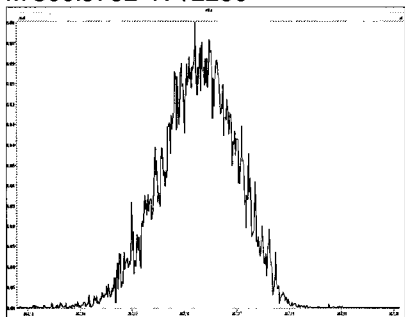
M 416.9760 R 11109



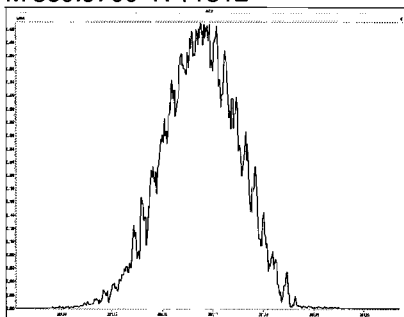
File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, May 07, 2019 11:14:13 Pacific Daylight Time

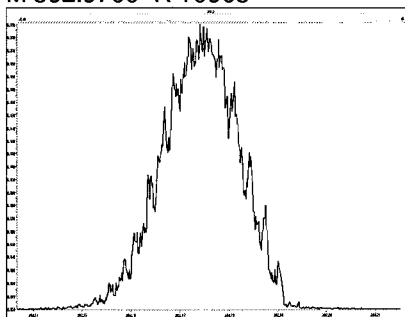
M 366.9792 R 12256



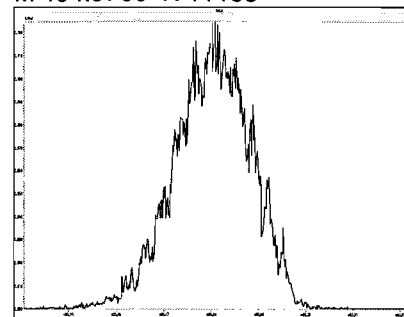
M 380.9760 R 11312



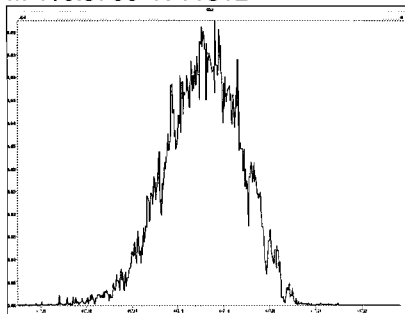
M 392.9760 R 10963



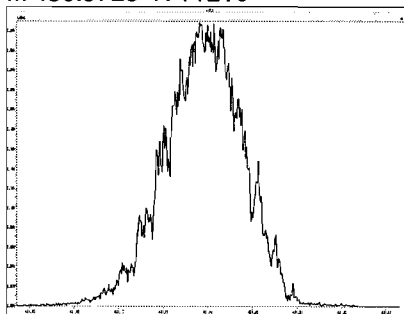
M 404.9760 R 11158



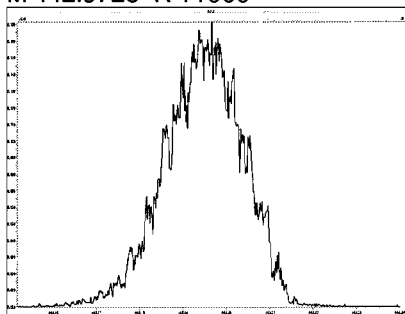
M 416.9760 R 11312



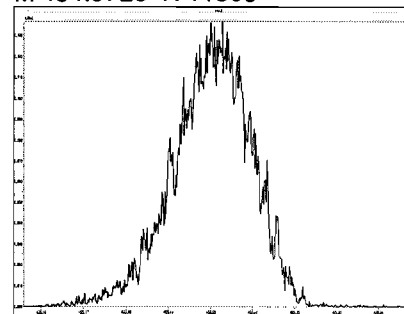
M 430.9728 R 11210



M 442.9728 R 11060



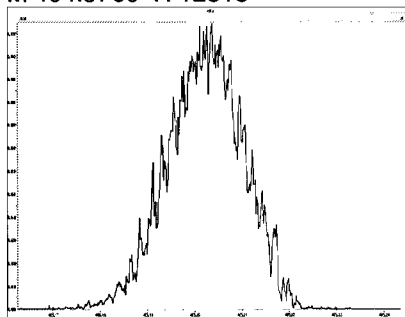
M 454.9728 R 11309



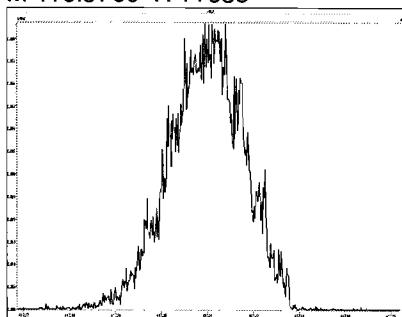
File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, May 07, 2019 11:14:57 Pacific Daylight Time

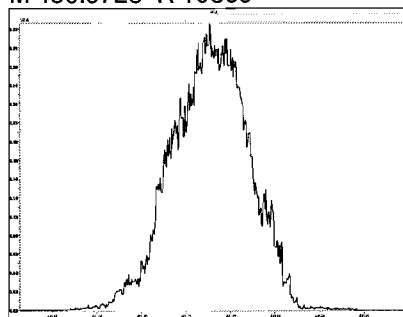
M 404.9760 R 12313



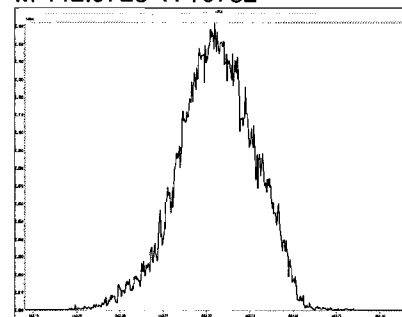
M 416.9760 R 11683



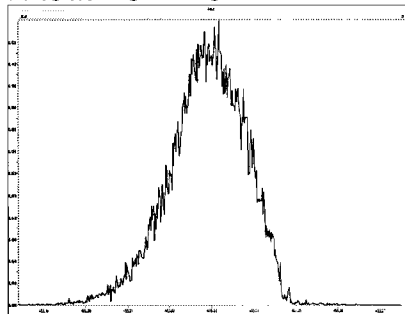
M 430.9728 R 10869



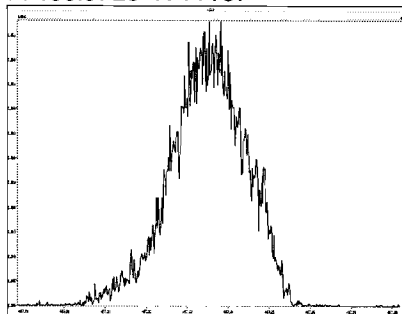
M 442.9728 R 10732



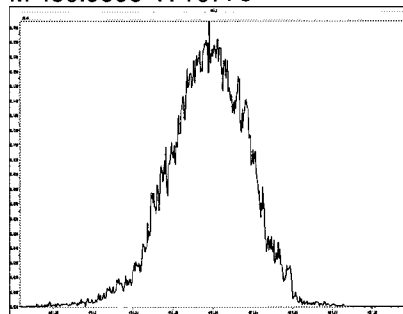
M 454.9728 R 11522



M 466.9728 R 11157



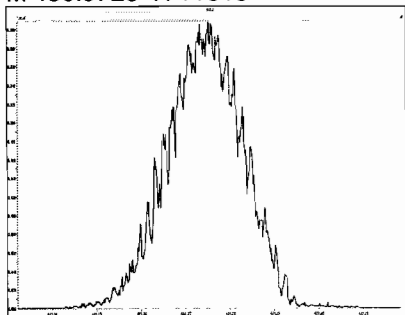
M 480.9696 R 10778



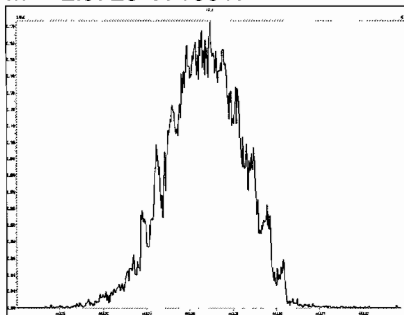
File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, May 07, 2019 11:15:30 Pacific Daylight Time

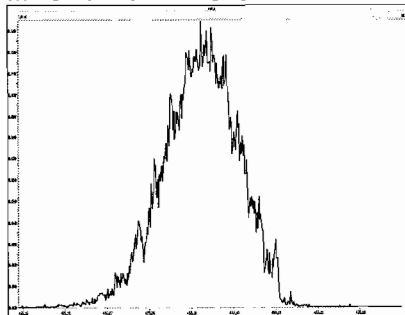
M 430.9728 R 11313



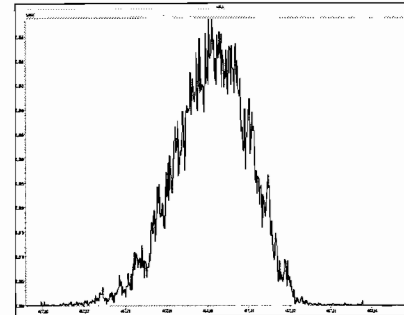
M 442.9728 R 10917



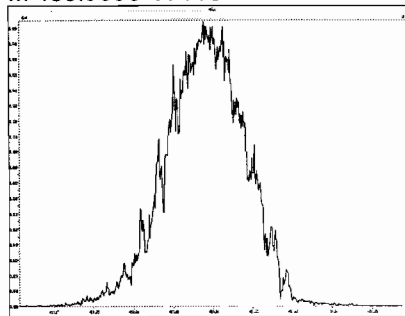
M 454.9728 R 11573



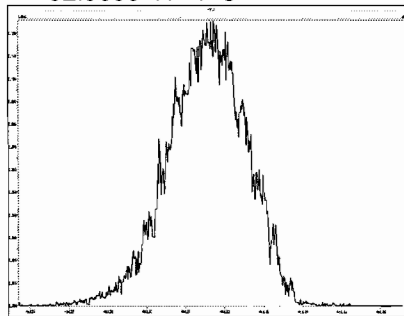
M 466.9728 R 11575



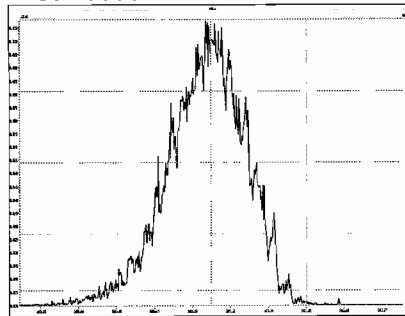
M 480.9696 R 11521



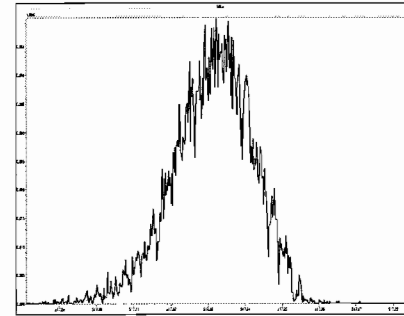
M 492.9696 R 11737



M 504.9696 R 11311



M 516.9697 R 11963



Dataset: Untitled

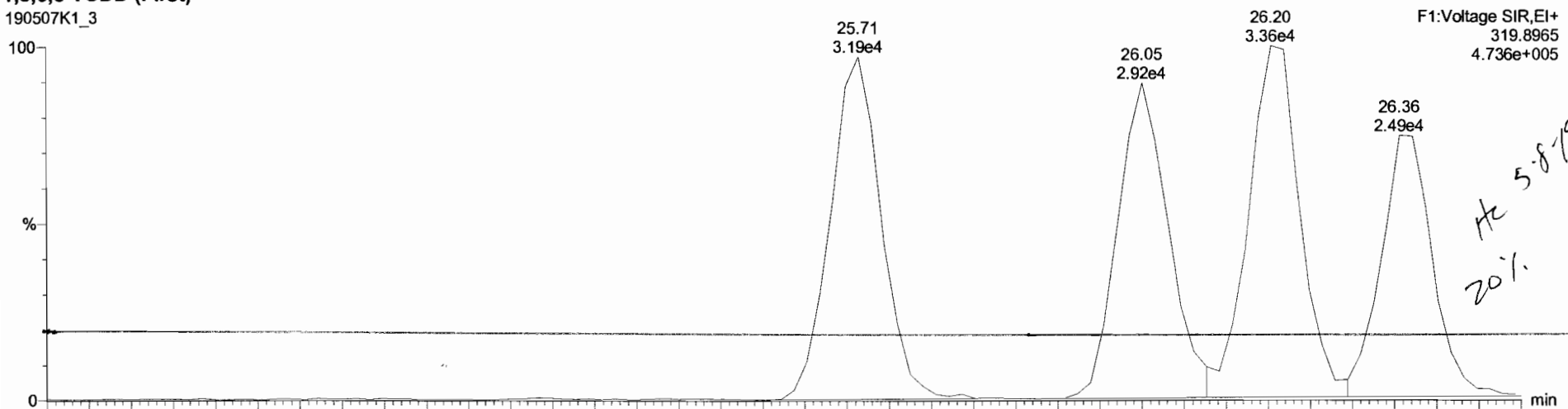
Last Altered: Wednesday, May 08, 2019 8:06:43 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 8:06:44 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\CPSM-5-7-19.mdb 07 May 2019 13:29:19  
Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

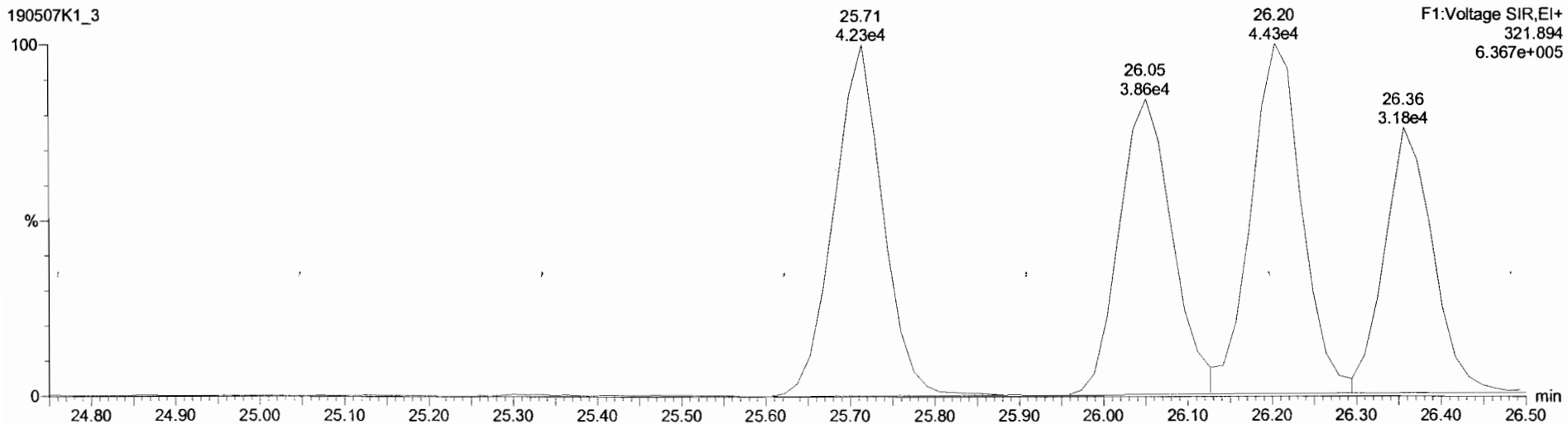
Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

1,3,6,8-TCDD (First)

190507K1\_3



190507K1\_3



Dataset: Untitled

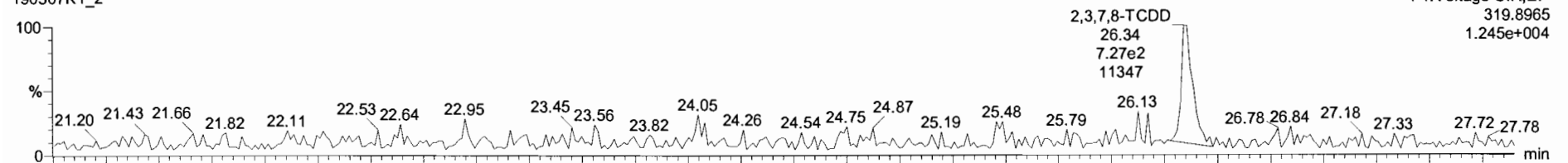
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\1613\_rrt-5-7-19.mdb 07 May 2019 12:51:47  
Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 07 May 2019 16:51:46

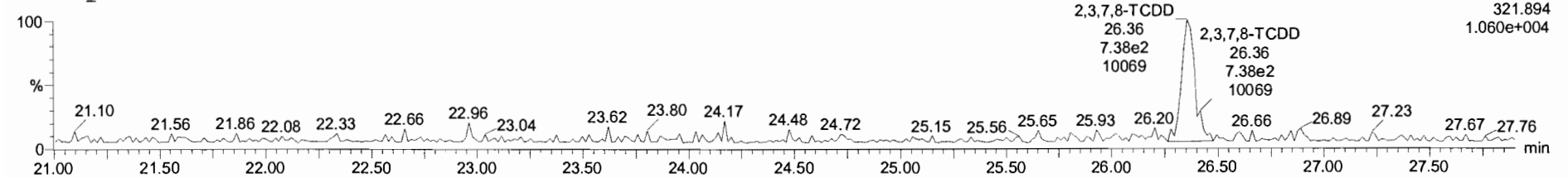
Name: 190507K1\_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1\_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

**2,3,7,8-TCDD**

190507K1\_2

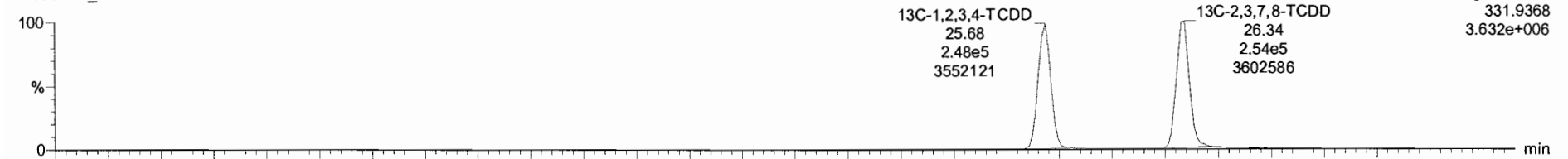


190507K1\_2

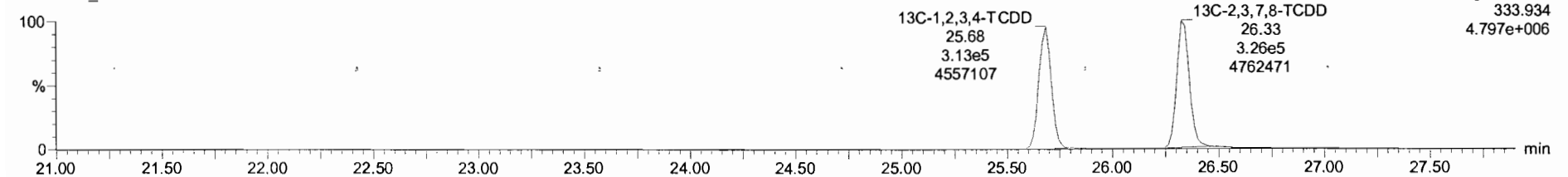


**13C-2,3,7,8-TCDD**

190507K1\_2

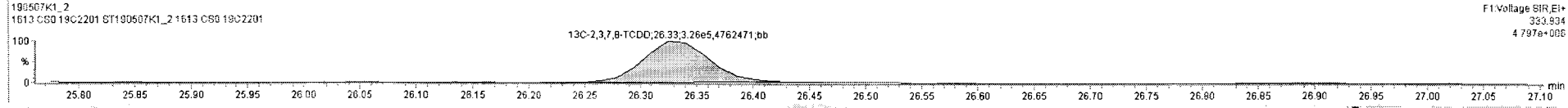
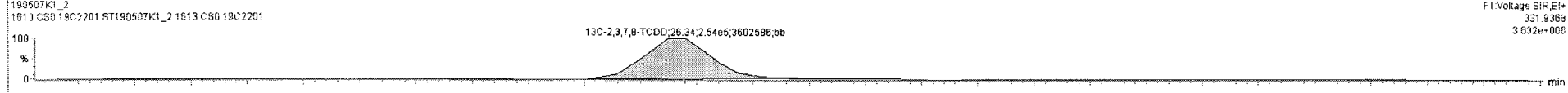
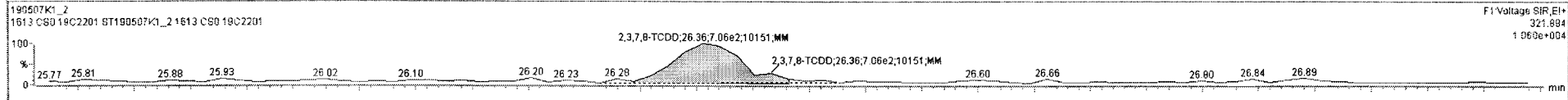
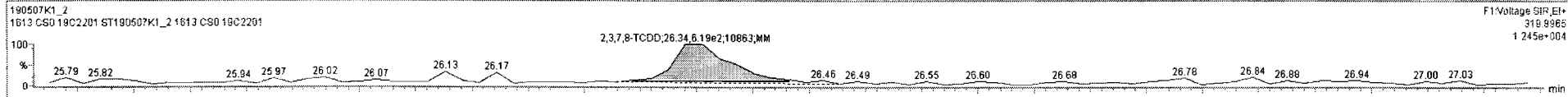


190507K1\_2



190507K1\_2 - ST190507K1\_2 1613 CS0 19C2201 - 1613 CS0 19C2201

Peak	Name	Resp	RA	nY	RRF	WtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.33e3	0.86	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2	1,2,3,7,8-PeCDD	4.13e3	0.67	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3	1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4	1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0448	1.23
5	1,2,3,7,8,9-HxCDD	3.68e3	1.09	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6	1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	38.32	1.001	1.24	99.2	0.0752	1.24
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.000	2.32	92.6	0.123	2.31
8	2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9	1,2,3,7,8-PeCDF	7.12e3	1.67	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10	2,3,4,7,8-PeCDF	6.69e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11	1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.36	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14	1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15	1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.23	1.000	38.86	1.000	1.23	98.5	0.129	1.23
17	OCDF	1.16e4	0.86	NO	1.10	1.000	41.69	1.000	3.48	199	0.191	3.48
18	13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19	13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20	13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21	13C-1,2,3,6,7,8-HxCDD	3.71e5	1.27	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22	13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	



Dataset: Untitled

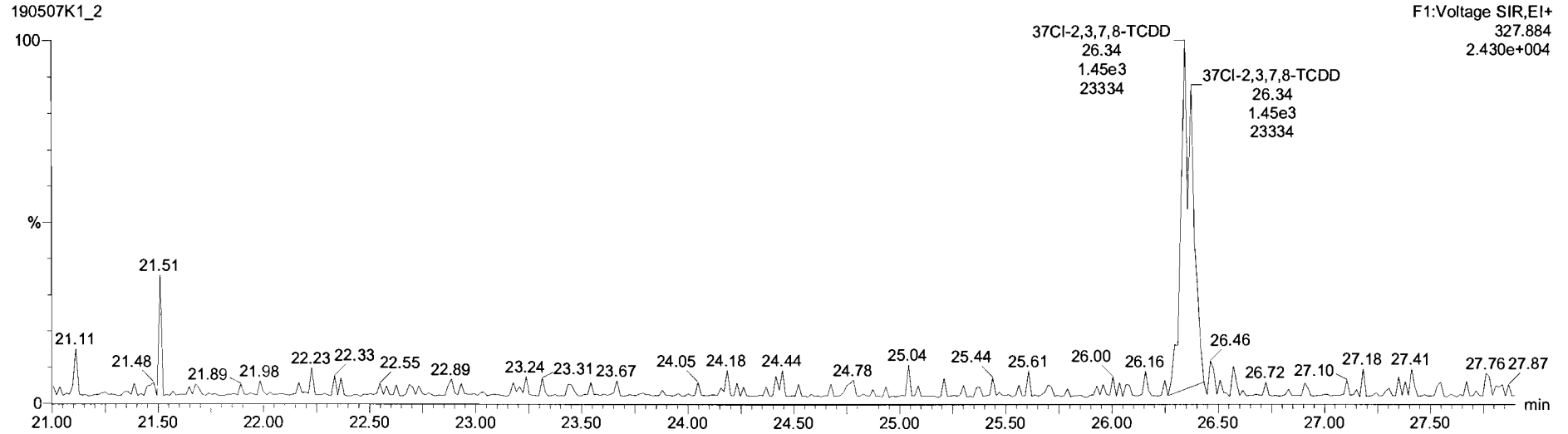
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1\_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

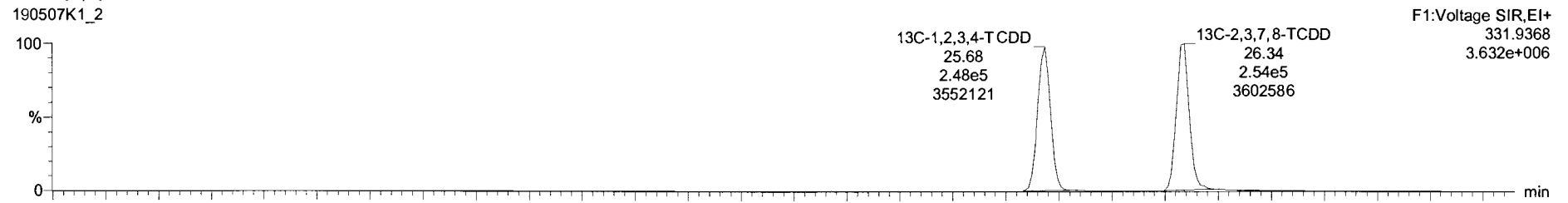
**37Cl-2,3,7,8-TCDD**

190507K1\_2

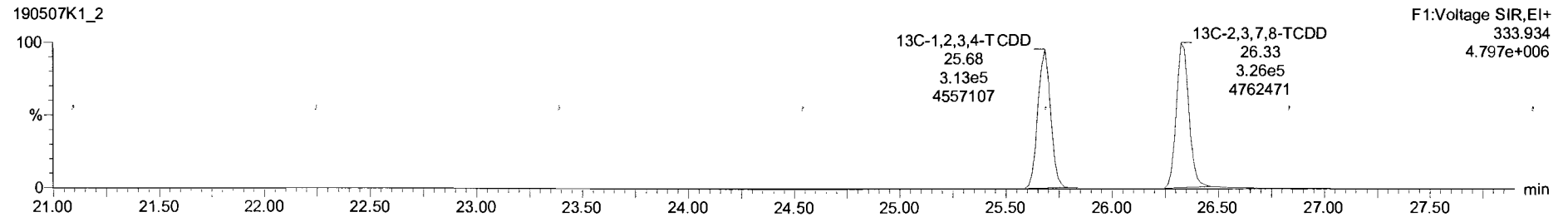


**13C-1,2,3,4-TCDD**

190507K1\_2



190507K1\_2





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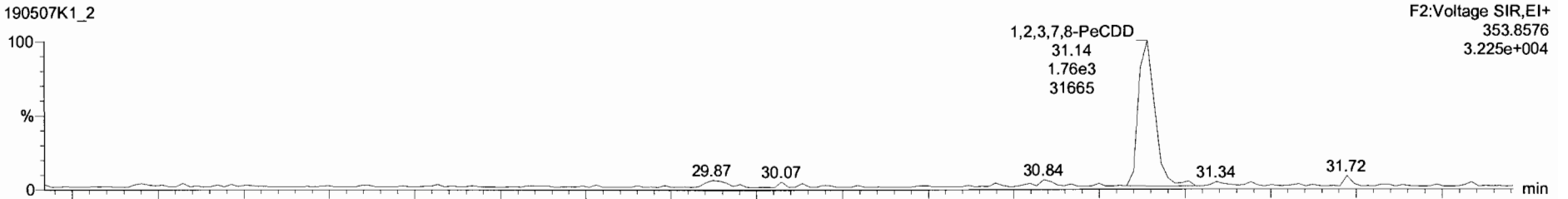
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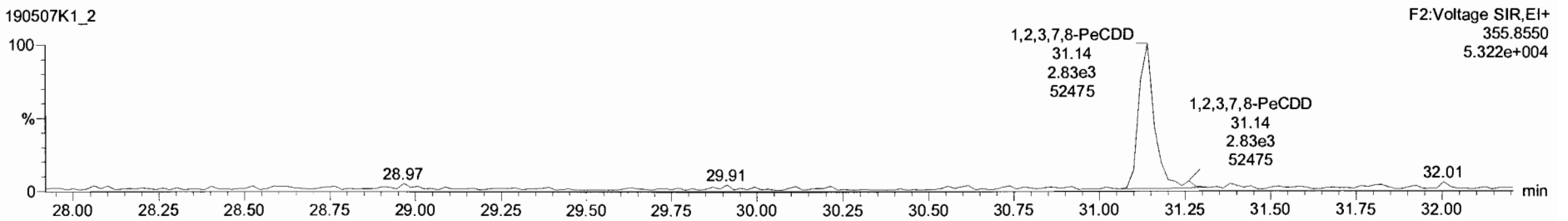
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**1,2,3,7,8-PeCDD**

190507K1\_2

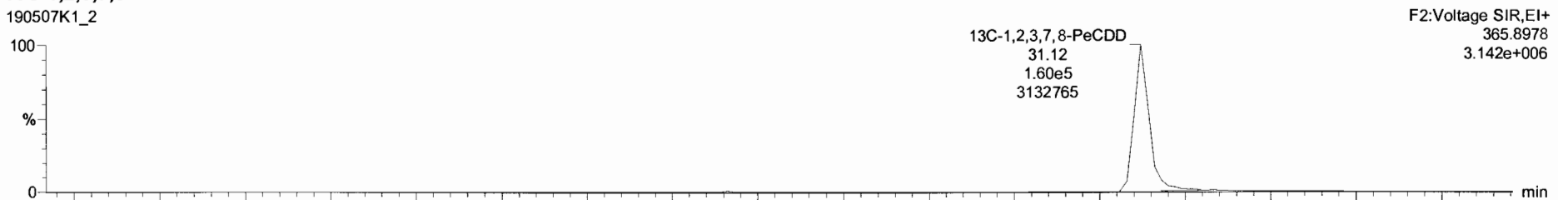


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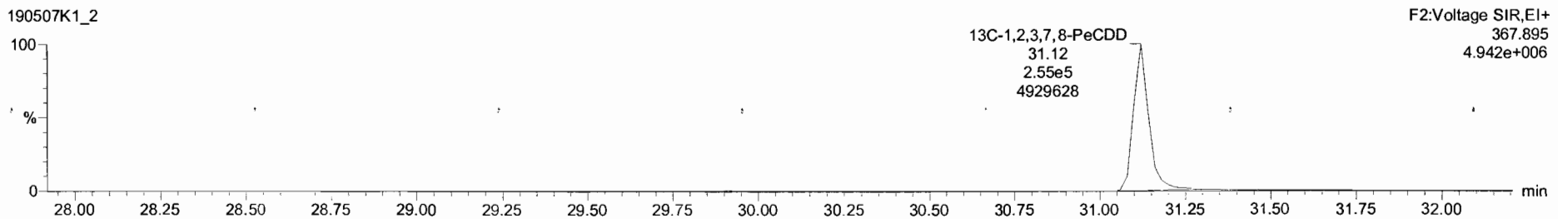


**13C-1,2,3,7,8-PeCDD**

190507K1\_2



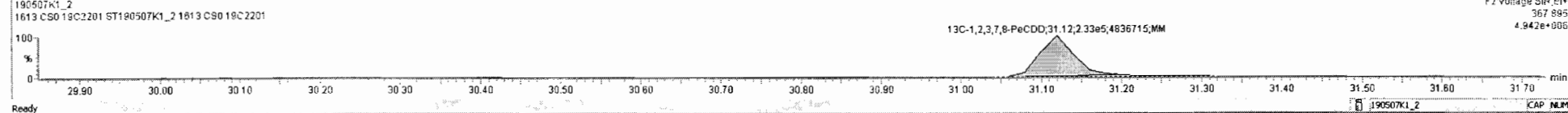
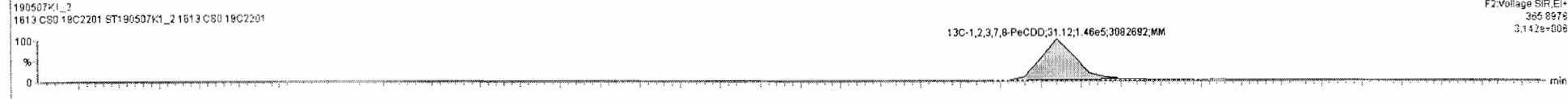
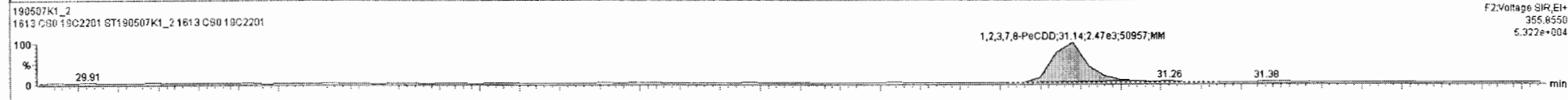
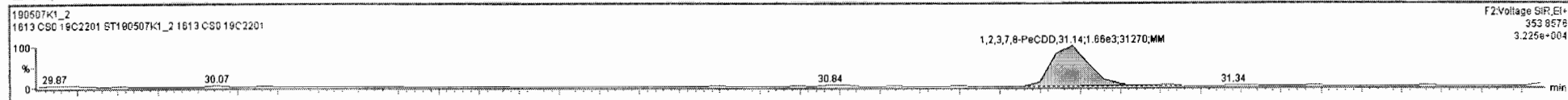
190507K1\_2



Target1.ymx - 190507K1\_CRY.qld - [Chromatogram]

190507K1\_2 - ST190507K1\_2 1613 CS0 19C2201 - 1613 CS0 19C2201

Name	Resp	RA	n/y	RF	Wt%	RT	RRT	Conc.	%Rec	DJ	EMPC
29	13C-1,2,3,6,7,8-HxCDF	4.90e5	0.53	NO	1.03	1.000	33.65	0.992	95.9	95.9	0.470
30	13C-2,3,4,6,7,8-HxCDF	4.48e5	0.50	NO	0.89	1.000	34.25	1.009	101	101	0.541
31	13C-1,2,3,7,8-HxCDF	3.43e5	0.52	NO	0.73	1.000	35.17	1.036	94.0	94.0	0.658
32	13C-1,2,3,4,6,7,8-HpCDF	3.64e5	0.47	NO	0.75	1.000	36.90	1.067	96.9	96.9	0.489
33	13C-1,2,3,4,7,8-HpCDF	2.85e5	0.46	NO	0.55	1.000	38.85	1.145	104	104	0.669
34	13C-OCDF	6.04e5	0.89	NO	0.60	1.000	41.69	1.228	204	102	0.519
35	37Cl-2,3,7,8-TCDD	1.45e3			1.07	1.000	26.34	1.026	0.241	96.4	0.0328
36	13C-1,2,3,4-TCDD	5.62e5	0.79	NO	1.00	1.000	25.68	1.000	100	100	0.230
37	13C-1,2,3,4-TCDF	8.33e5	0.81	NO	1.00	1.000	24.05	1.000	100	100	0.408
38	13C-1,2,3,4,6,8-HxCDF	4.98e5	0.53	NO	1.00	1.000	33.94	1.000	100	100	0.483
39	Total Tetra-Dioxins				0.92	1.000		0.247			0.247
40	Total Penta-Dioxins				0.90	1.000		1.20		0.6640	1.20
41	Total Hexa-Dioxins				0.97	1.000		3.72		0.0506	3.72
42	Total Hepta-Dioxins				1.03	1.000		1.24		0.0752	1.24
43	Total Tetra-Furans				0.94	1.000		0.245		0.0508	0.245
44	1st Func. Penta-Furans				0.98	1.000				0.0230	
45	Total Penta-Furans				0.98	1.000		2.32		0.0806	2.32
46	Total Hexa-Furans				1.18	1.000		4.44		0.0766	4.44
47	Total Hepta-Furans				1.13	1.000		2.41		0.126	2.41
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										



Dataset: Untitled

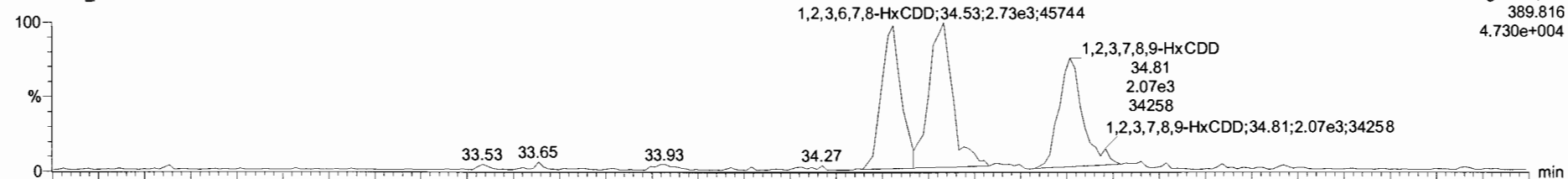
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

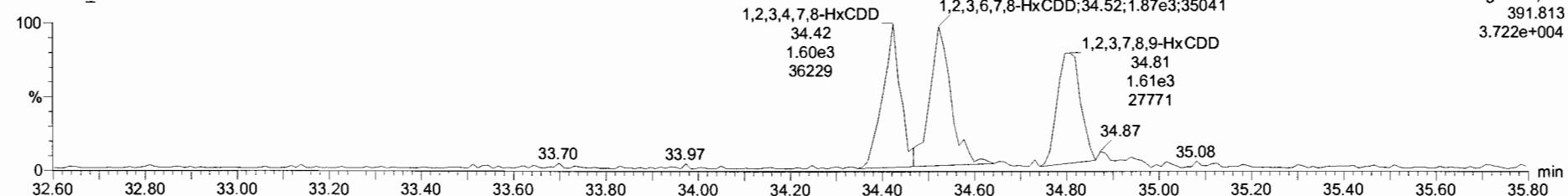
Name: 190507K1\_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1\_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

### 1,2,3,4,7,8-HxCDD

190507K1\_2

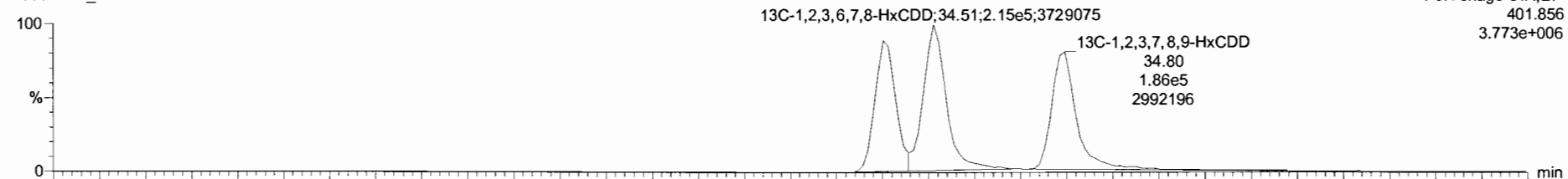


190507K1\_2

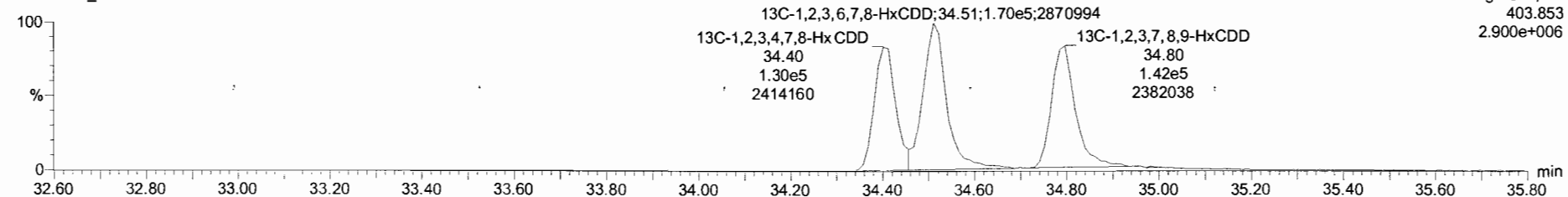


### 13C-1,2,3,4,7,8-HxCDD

190507K1\_2



190507K1\_2

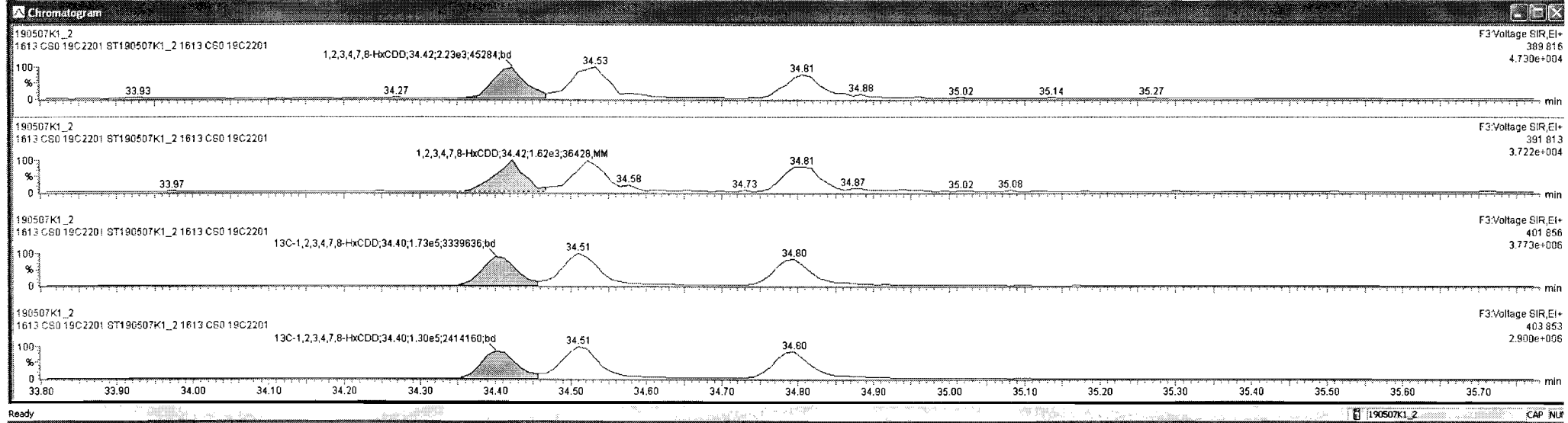


TargetLynx - 190507K1.CRV.qld

File Edit View Display Processing Window Help

190507K1\_2 - ST190507K1\_2 1613 CS0 19C2201 - 1613 CS0 19C2201

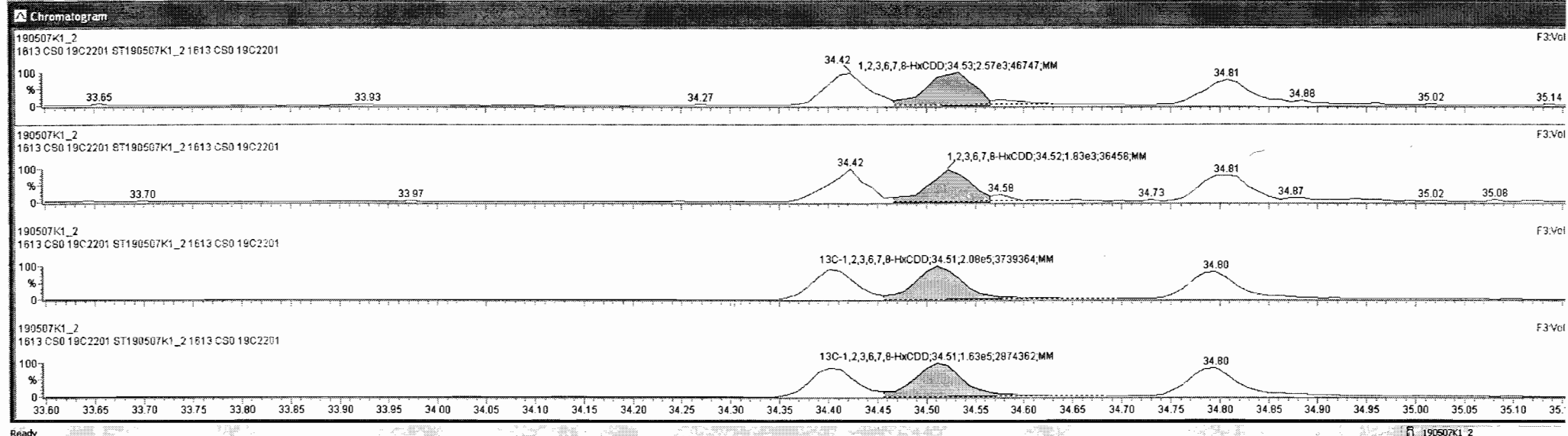
Name	Resp	RA	nA	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.33e3	0.88	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2 1,2,3,7,8-PeCDD	4.19e3	0.67	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3 1,2,3,4,7,8-HxCDD	3.65e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0483	1.19
4 1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0448	1.23
5 1,2,3,7,8,9-HxCDD	3.66e3	1.09	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6 1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	38.32	1.001	1.24	99.2	0.0752	1.24
7 OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8 2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9 1,2,3,7,8-PeCDF	7.12e3	1.68	NO	0.98	1.000	29.89	1.001	1.17	93.7	0.0634	1.17
10 2,3,4,7,8-PeCDF	6.68e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11 1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12 1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13 2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14 1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15 1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16 1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.26	1.000	38.66	1.000	1.37	109	0.127	1.37
17 OCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	139	0.191	3.49
18 13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19 13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20 13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.85	1.000	34.40	1.014	94.1	94.1	0.572	
21 13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22 13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23 13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	





190507K1\_2 - ST190507K1\_2 1613 CS0 19C2201 - 1613 CS0 19C2201

Name	Resp	RA	nY	RRF	wtWtd	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.33e3	0.88	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2 1,2,3,7,8-PeCDD	4.13e3	0.87	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3 1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4 1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0468	1.23
5 1,2,3,7,8,9-HxCDD	3.66e3	1.09	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6 1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	38.32	1.001	1.24	99.2	0.0752	1.24
7 OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8 2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9 1,2,3,7,8-PeCDF	7.12e3	1.68	NO	0.99	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10 2,3,4,7,8-PeCDF	6.69e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11 1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12 1,2,3,6,7,8-HxCDF	8.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13 2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14 1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15 1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16 1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.26	1.000	38.86	1.000	1.37	109	0.127	1.37
17 OCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	139	0.191	3.49
18 13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	96.5	98.5	0.219	
19 13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20 13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.85	1.000	34.40	1.014	94.1	94.1	0.572	
21 13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22 13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.86	1.000	34.80	1.025	87.9	87.9	0.598	
23 13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	

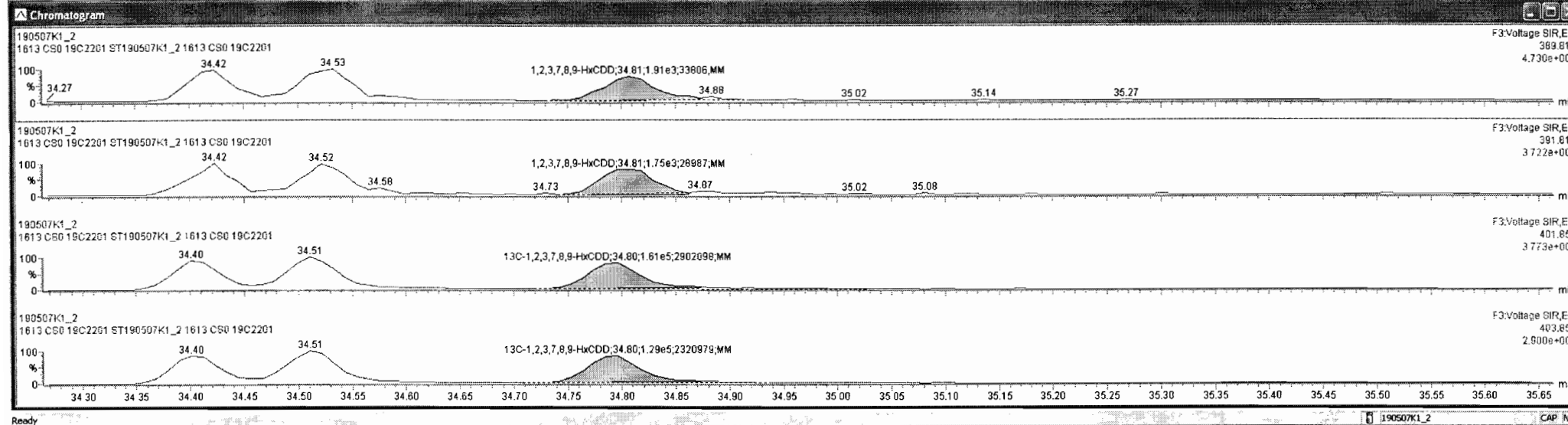


Target: lnx - 190507K1\_CRV.qld

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190507K1\_2 - ST190507K1\_2 1613 CS0 19C2201 - 1613 CS0 19C2201

Name	Resp	RA	rvy	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.33e3	0.88	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2 1,2,3,7,8-PeCDD	4.13e3	0.67	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3 1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4 1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0448	1.23
5 1,2,3,7,8,9-HxCDD	3.66e3	1.09	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6 1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	36.32	1.001	1.24	99.2	0.0752	1.24
7 OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8 2,3,7,8-TCDF	1.85e3	0.91	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9 1,2,3,7,8-PeCDF	7.12e3	1.68	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10 2,3,4,7,8-PeCDF	6.66e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11 1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12 1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13 2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14 1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15 1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.16	94.1	0.115	1.16
16 1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.26	1.000	38.86	1.000	1.37	109	0.127	1.37
17 OCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	139	0.191	3.49
18 13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19 13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20 13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21 13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22 13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23 13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	36.30	1.128	93.6	93.6	0.470	



Dataset: Untitled

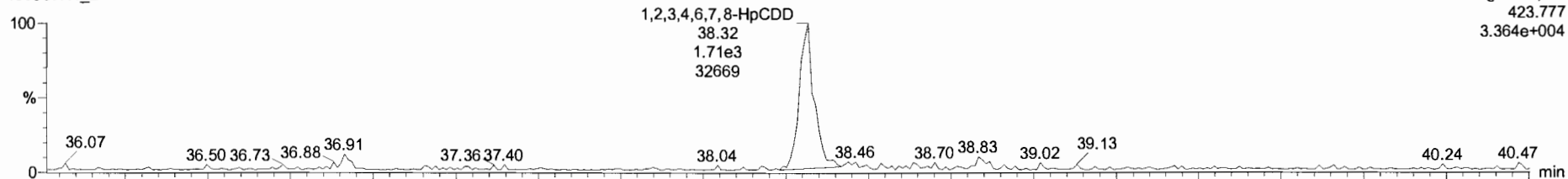
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

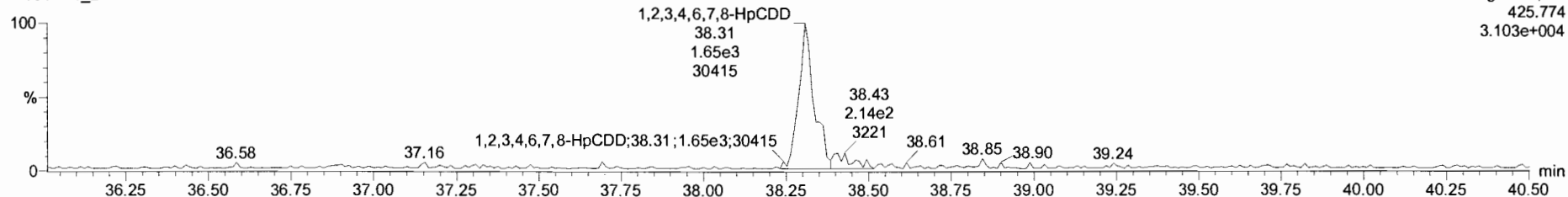
Name: 190507K1\_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1\_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

**1,2,3,4,6,7,8-HpCDD**

190507K1\_2

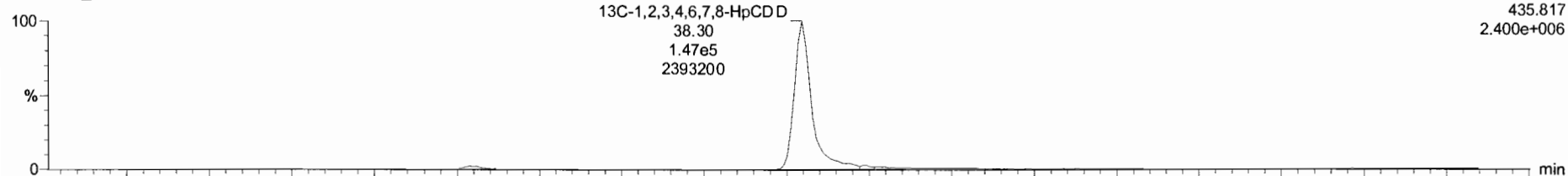


190507K1\_2

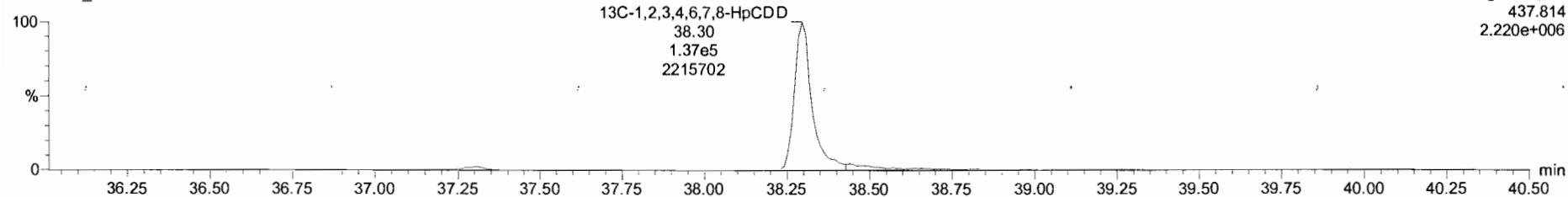


**13C-1,2,3,4,6,7,8-HpCDD**

190507K1\_2



190507K1\_2

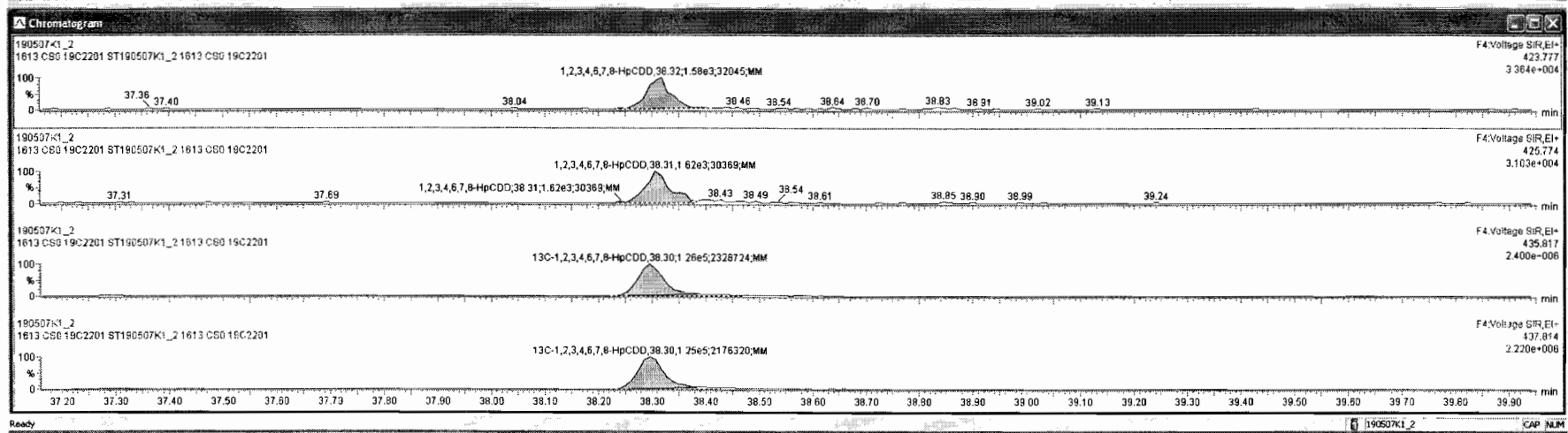


Target Lynx - 190507K1.CHV.qld

File Edit View Display Processing Window Help

190507K1\_2 - ST190507K1\_2 1613 CS0 19C2201 - 1613 CS0 19C2201

#	Name	Resp	RA	NY	RRF	WtVol	RT	RT1	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.33e3	0.88	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2	1,2,3,7,8-PeCDD	4.13e3	0.67	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3	1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4	1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0448	1.23
5	1,2,3,7,8,9-HxCDD	3.66e3	1.09	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6	1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	38.32	1.001	1.24	99.2	0.0752	1.24
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8	2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9	1,2,3,7,8-PeCDF	7.12e3	1.68	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10	2,3,4,7,8-PeCDF	6.88e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11	1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14	1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15	1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.26	1.000	38.88	1.000	1.37	109	0.127	1.37
17	OCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	136	0.191	3.49
18	13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19	13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20	13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21	13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22	13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	



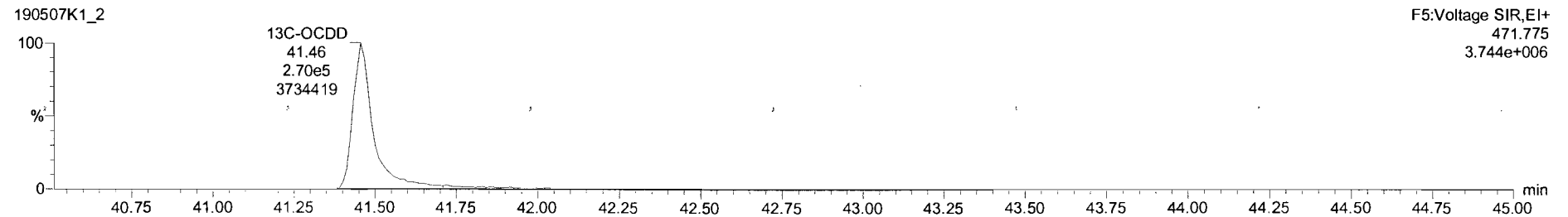
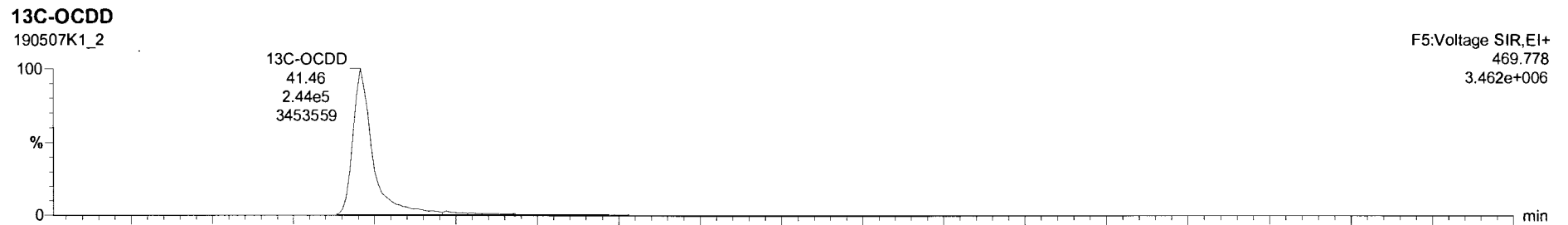
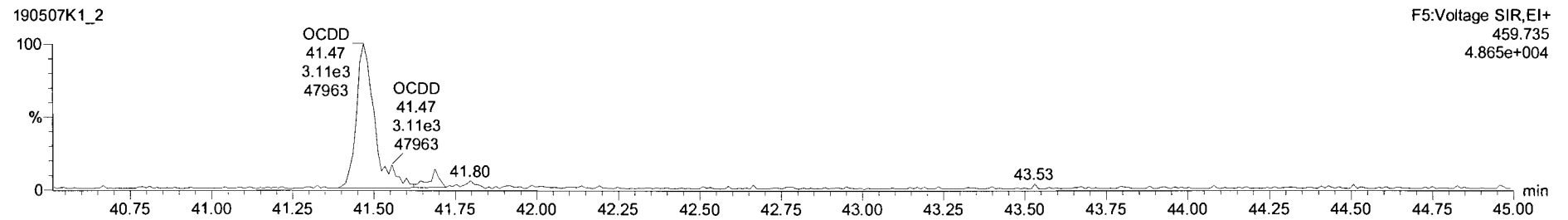
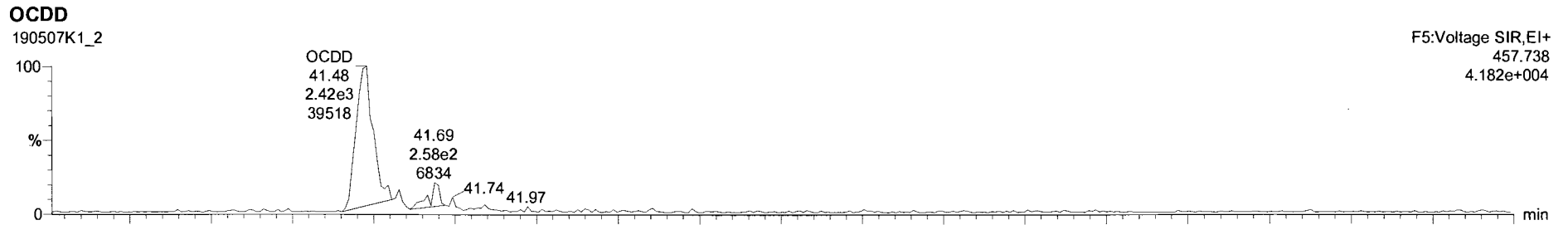


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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

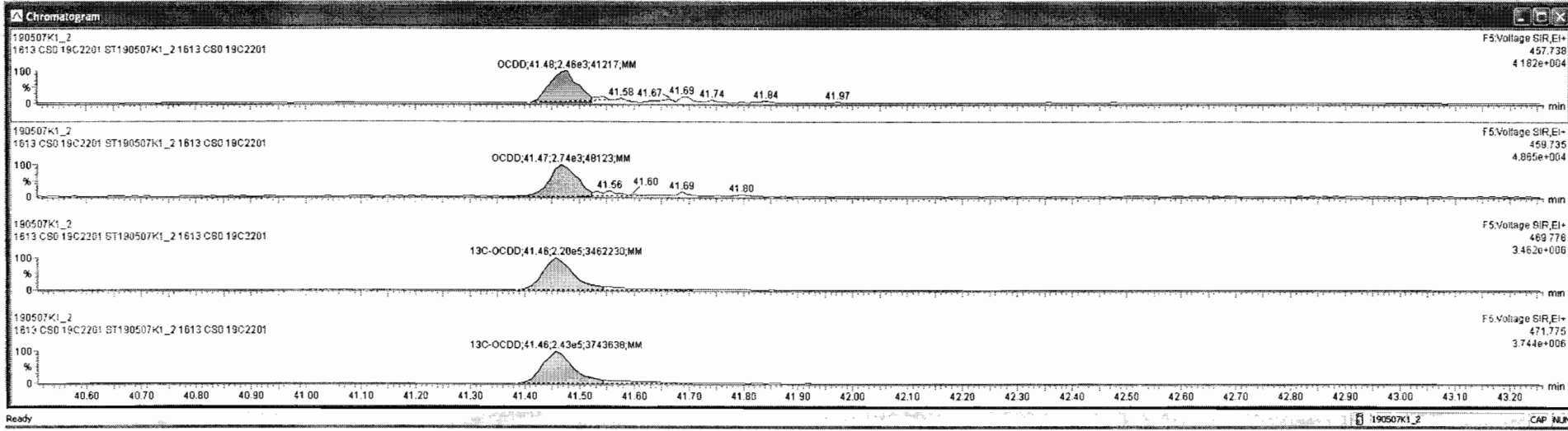
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Name: 190507K1\_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1\_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201



190507K1\_2 - ST190507K1\_2 1613 C80 19C2201 - 1613 C80 19C2201

#	Name	Resp	RA	INLY	RRF	wt/ndc	RT	RR1	Conc.	%Rec	DL	EffC
1	2,3,7,8-TCDD	1.33e3	0.88	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2	1,2,3,7,8-PeCDD	4.13e3	0.67	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3	1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4	1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0448	1.23
5	1,2,3,7,8,9-HxCDD	3.86e3	1.09	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6	1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	38.32	1.001	1.24	99.2	0.0752	1.24
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8	2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9	1,2,3,7,8-PeCDF	7.12e3	1.68	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10	2,3,4,7,8-PeCDF	6.88e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11	1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14	1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15	1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.26	1.000	38.86	1.000	1.37	109	0.127	1.37
17	OCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	139	0.191	3.49
18	13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19	13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20	13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21	13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22	13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.8	87.8	0.558	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	

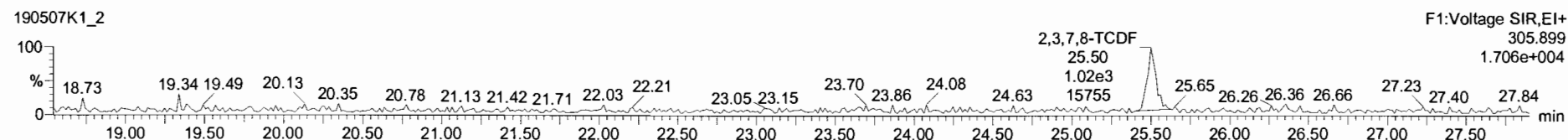
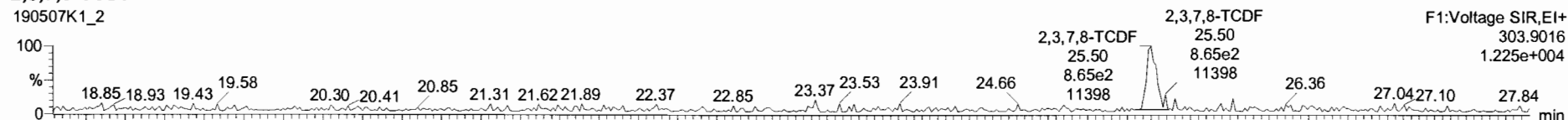


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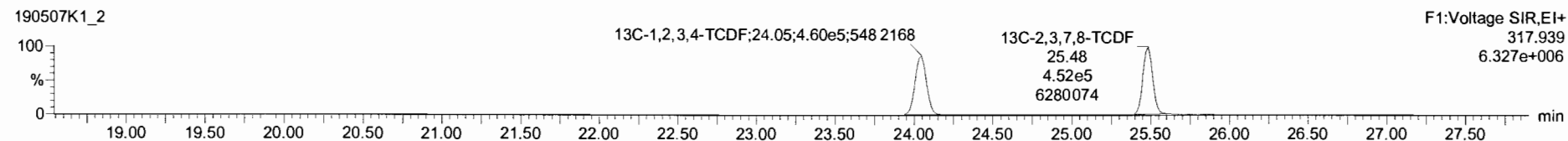
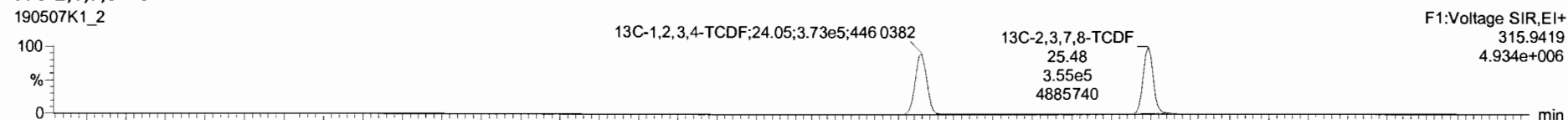
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1\_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

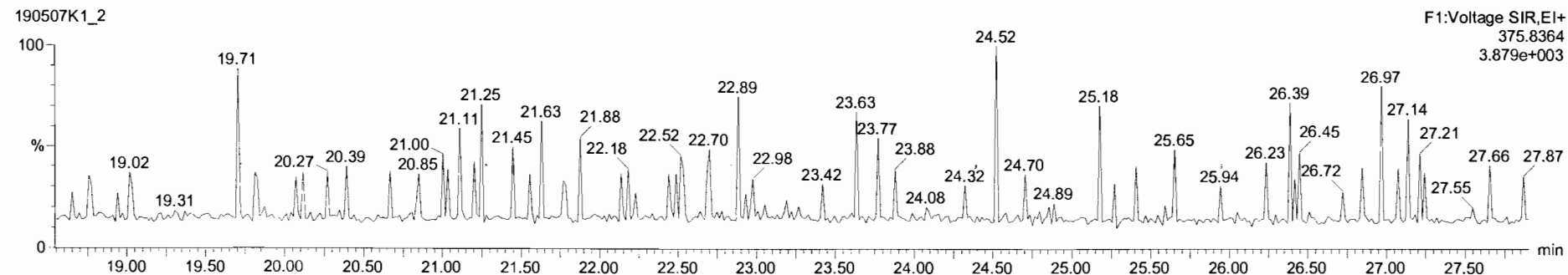
### 2,3,7,8-TCDF



### 13C-2,3,7,8-TCDF



### DPE1

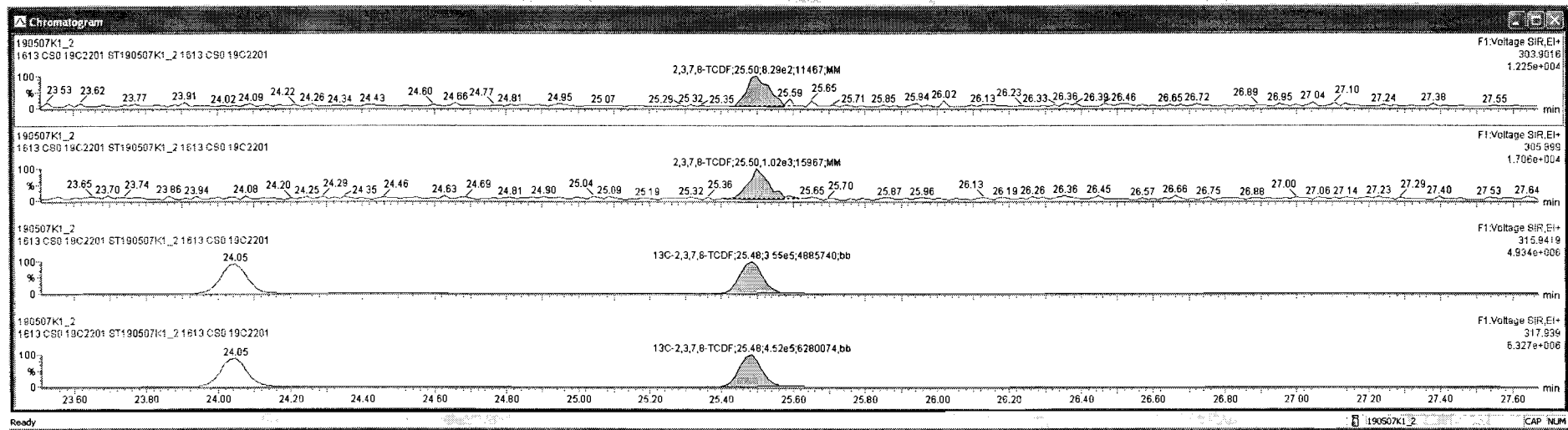


TargetLynx 190507K1\_CRY.gld

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190507K1\_2-ST190507K1\_2 1613 CS0 19C2201 - 1613 CS0 19C2201

Line	Name	Resp	RA	riy	RRF	WtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.33e3	0.86	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2	1,2,3,7,8-PeCDD	4.13e3	0.67	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3	1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4	1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0448	1.23
5	1,2,3,7,8,9-HxCDD	3.66e3	1.09	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6	1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	38.32	1.001	1.24	99.2	0.0752	1.24
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8	2,3,7,8-TCDF	1.95e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.8	0.0306	0.245
9	1,2,3,7,8-PeCDF	7.12e3	1.88	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10	2,3,4,7,8-PeCDF	6.88e3	1.89	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11	1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.8	0.0704	1.09
14	1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15	1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.26	1.000	38.86	1.000	1.37	109	0.127	1.37
17	OCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	139	0.191	3.49
18	13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19	13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	80.9	90.9	0.224	
20	13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21	13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	85.9	95.9	0.476	
22	13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	



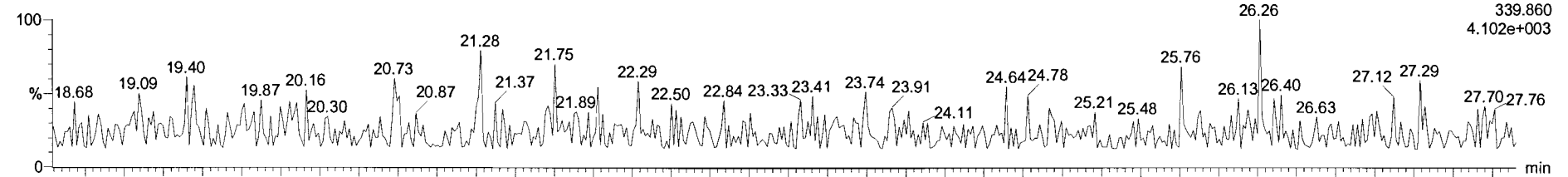
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

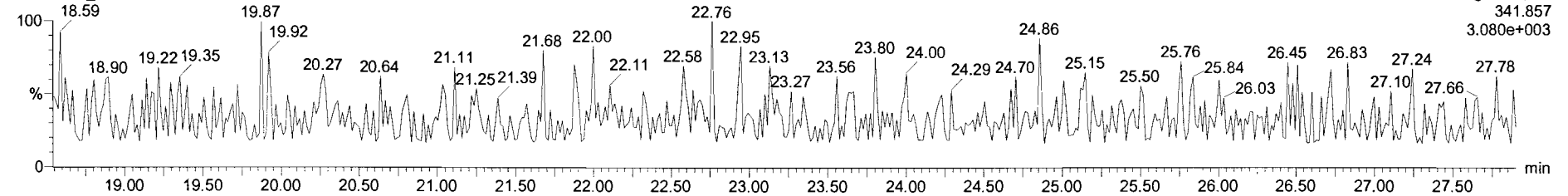
Name: 190507K1\_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1\_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

1st Func. Penta-Furans

190507K1\_2

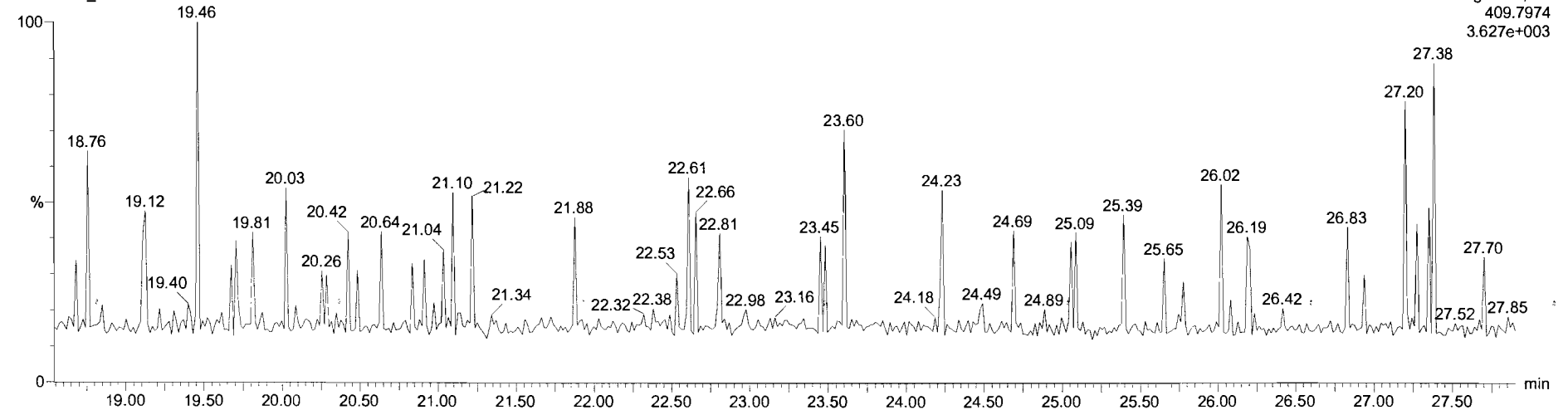


190507K1\_2



DPE6

190507K1\_2



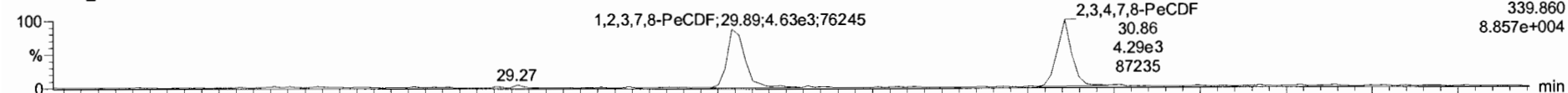
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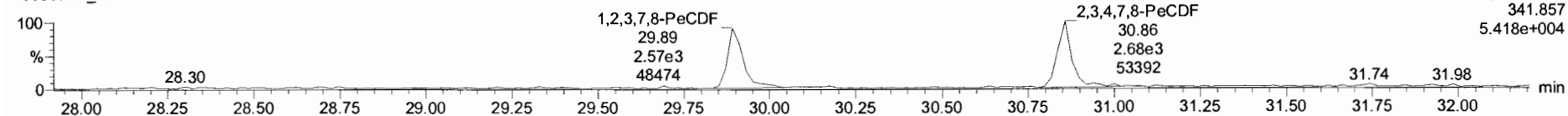
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**1,2,3,7,8-PeCDF**

190507K1\_2

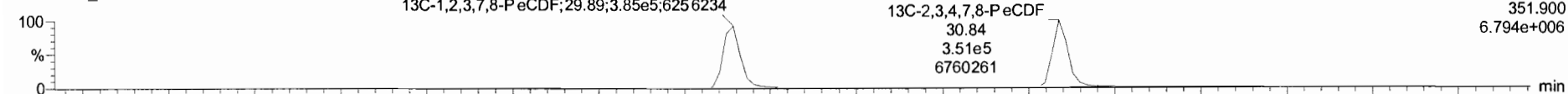


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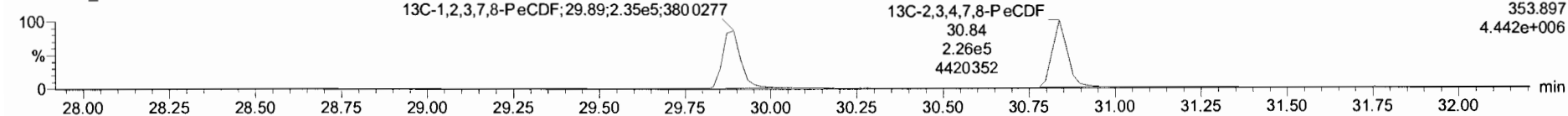


**13C-1,2,3,7,8-PeCDF**

190507K1\_2

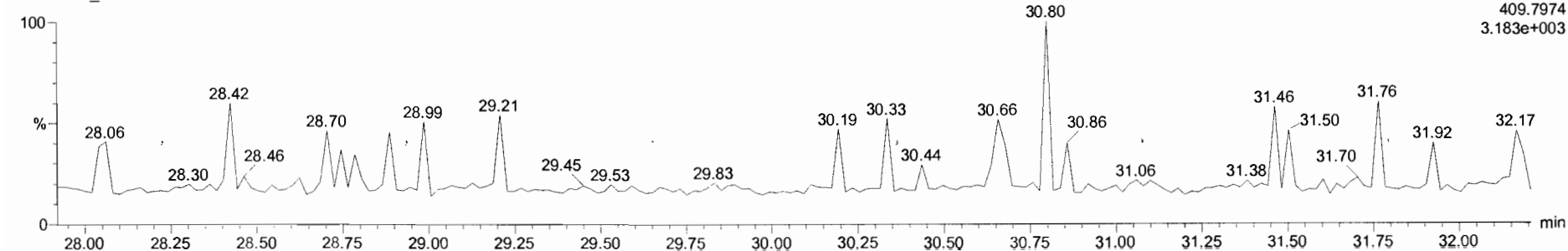


190507K1\_2



**DPE2**

190507K1\_2

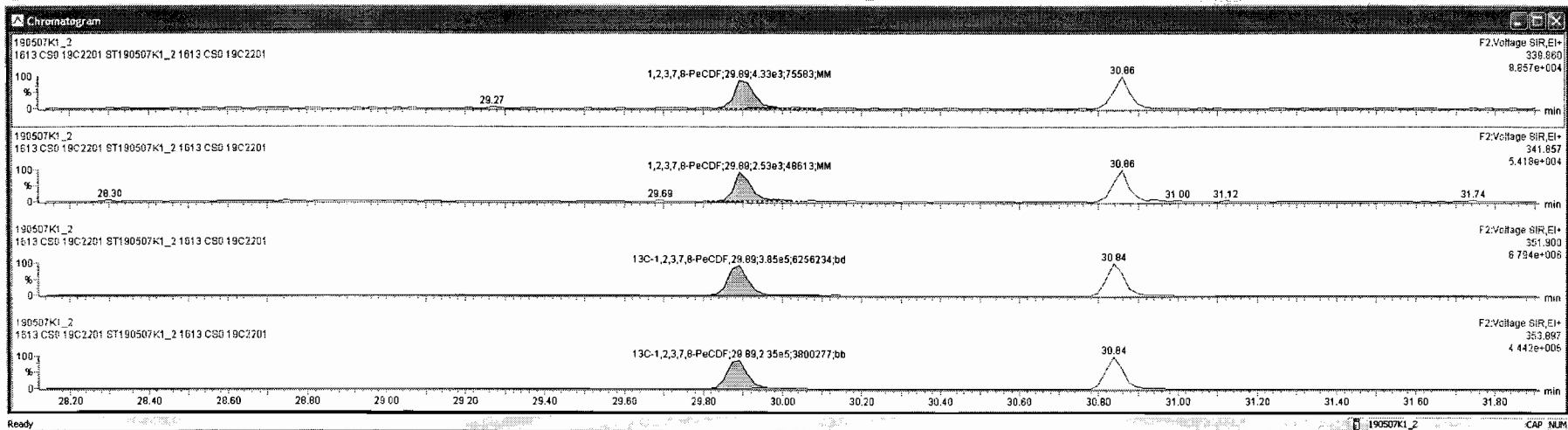


Target1.ymx - 190507K1.CHV.qld

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190507K1\_2 - ST190507K1\_2.1613.CS0.19C2201 - 1613.CS0.19C2201

1	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.33e3	0.88	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2	1,2,3,7,8-PeCDD	4.13e3	0.67	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3	1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4	1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.87	1.000	34.53	1.001	1.23	96.4	0.0448	1.23
5	1,2,3,7,8,9-HxCDD	3.66e3	1.09	NO	0.98	1.000	34.81	1.000	1.29	103	0.0567	1.29
6	1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.04	1.000	38.32	1.001	1.23	98.1	0.0744	1.23
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8	2,3,7,8-TCDF	1.85e3	0.91	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9	1,2,3,7,8-PeCDF	6.85e3	1.71	NO	0.98	1.000	29.89	1.000	1.13	90.7	0.0637	1.13
10	2,3,4,7,8-PeCDF	6.68e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11	1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.10	1.000	33.67	1.000	1.14	91.2	0.0713	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14	1,2,3,7,8,9-HxCDF	3.73e3	1.18	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15	1,2,3,4,6,7,8-HpCDF	4.83e3	1.18	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	1,2,3,4,7,8,9-HxCDF	4.31e3	1.07	NO	1.26	1.000	38.86	1.000	1.36	109	0.127	1.36
17	OCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	139	0.191	3.49
18	13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19	13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20	13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21	13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.478	
22	13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	89.4	89.4	0.561	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.53	1.000	38.30	1.128	94.8	94.8	0.475	

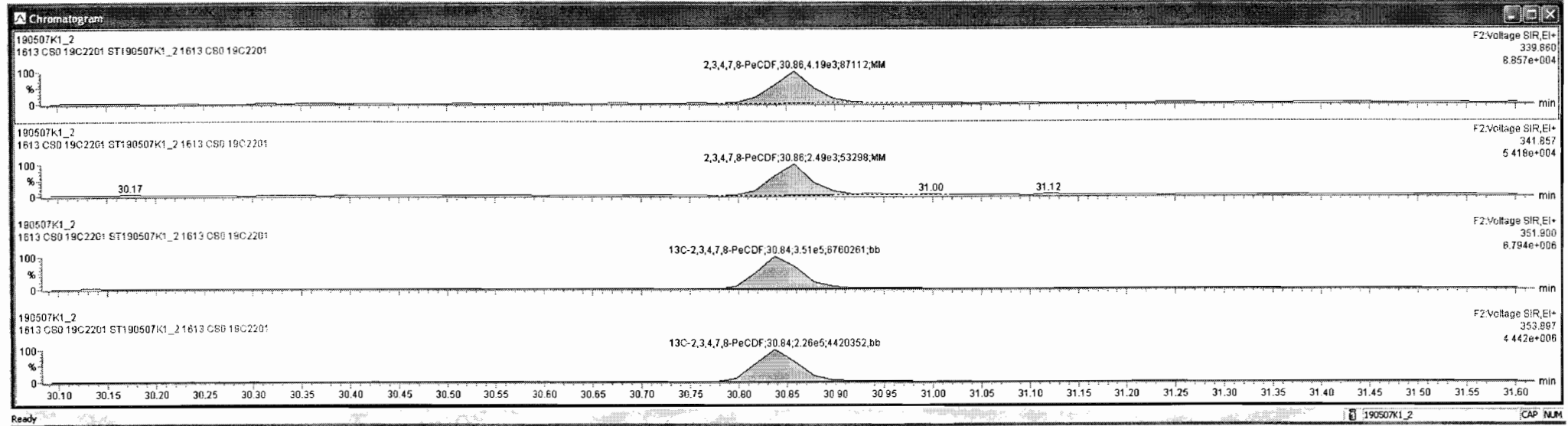


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190507K1\_2 - ST190507K1\_2 1613 CS0 19C2201 - 1613 CS0 19C2201

Name	Resp	RA	NY	RRF	wtAvol	R1	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.33e3	0.88	NO	0.52	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2 1,2,3,7,8-PeCDD	4.13e3	0.67	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3 1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4 1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0448	1.23
5 1,2,3,7,8,9-HxCDD	3.66e3	1.09	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6 1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	38.32	1.001	1.24	99.2	0.0752	1.24
7 OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8 2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9 1,2,3,7,8-PeCDF	6.79e3	1.92	YES	0.97	1.000	29.89	1.000	1.12	89.9	0.0638	0.981
10 2,3,4,7,8-PeCDF	6.68e3	1.89	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11 1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12 1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13 2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14 1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15 1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16 1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.28	1.000	38.86	1.000	1.37	109	0.127	1.37
17 OCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	139	0.191	3.49
18 13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19 13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20 13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21 13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.478	
22 13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.86	1.000	34.80	1.025	87.9	87.9	0.558	
23 13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	





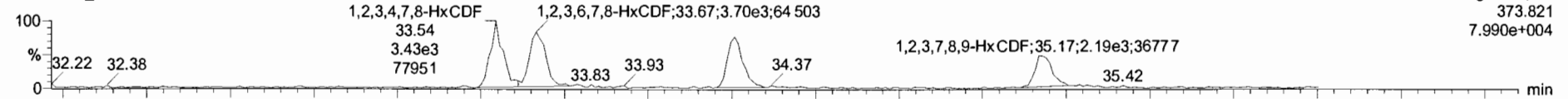
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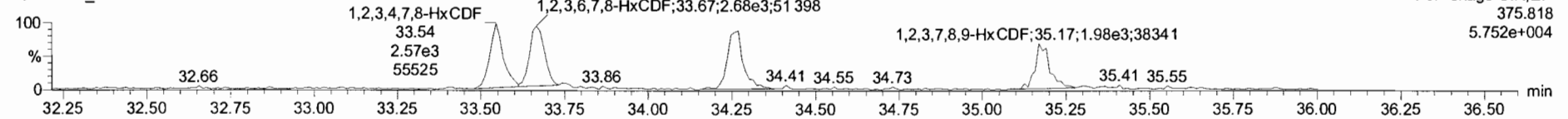
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**1,2,3,4,7,8-HxCDF**

190507K1\_2

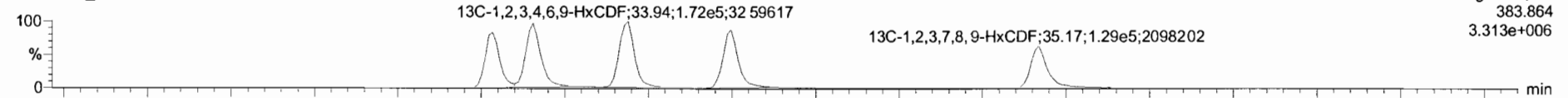


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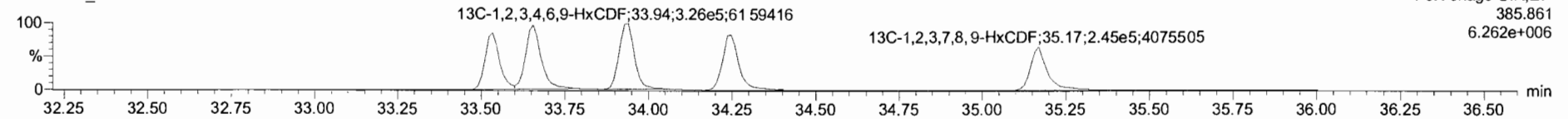


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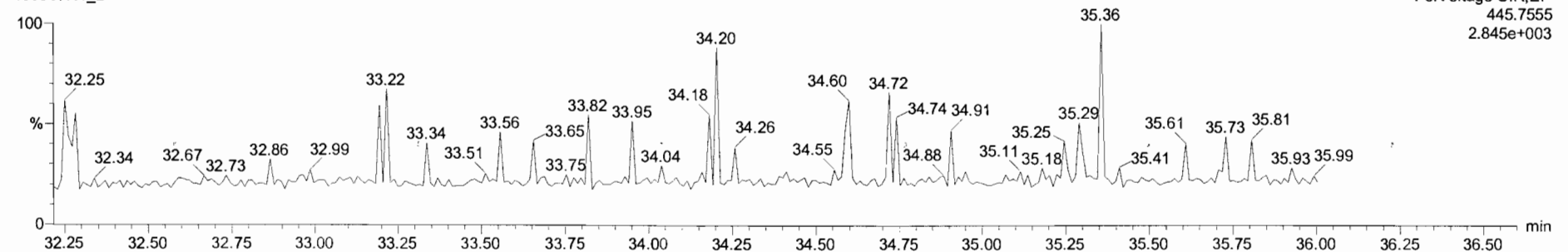


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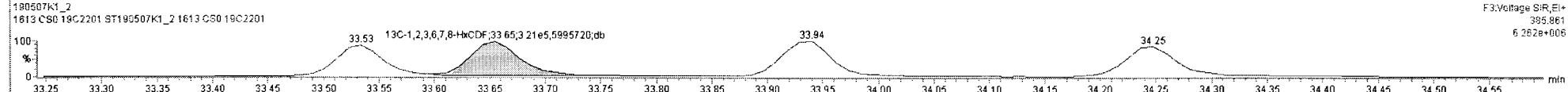
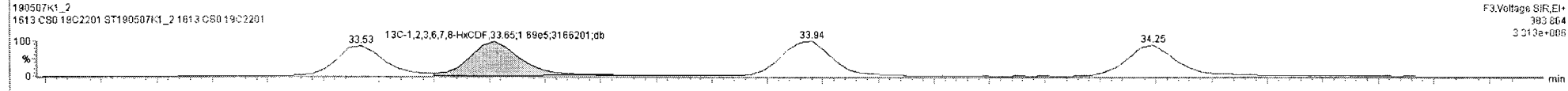
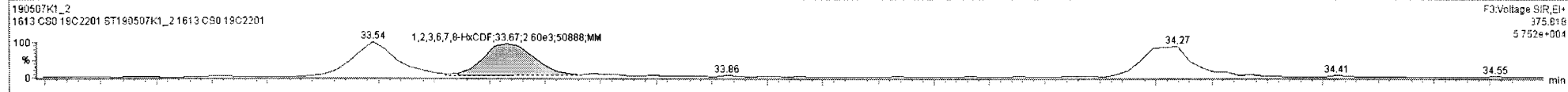
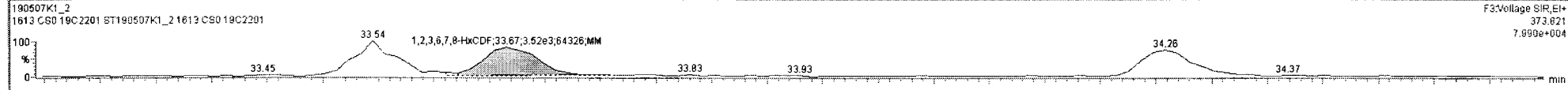
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190507K1\_2

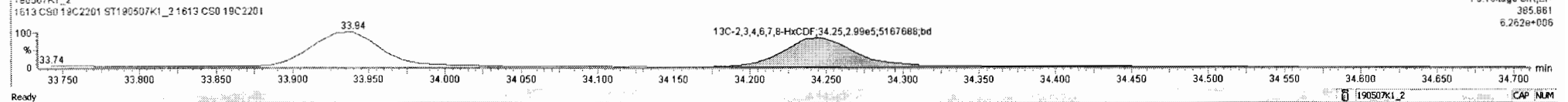
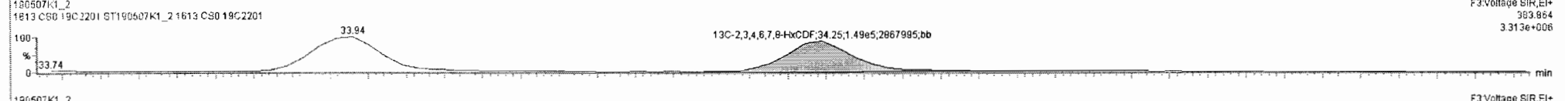
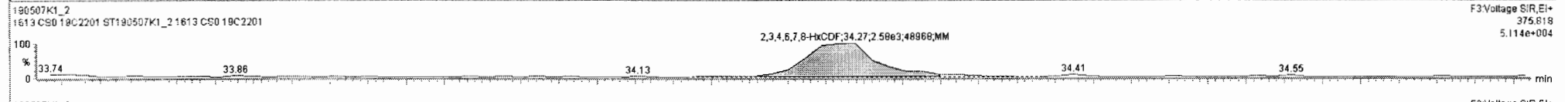
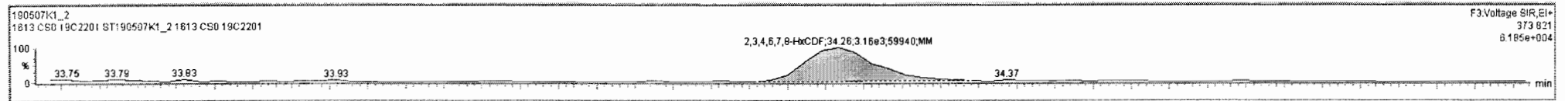


190507K1\_2 - ST190507K1\_2 1613 CS0 19C2201 - 1613 CS0 19C2201

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
7 OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.000	2.32	92.6	0.123	2.31
8 2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9 1,2,3,7,8-PeCDF	7.12e3	1.67	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10 2,3,4,7,8-PeCDF	6.68e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11 1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12 1,2,3,6,7,8-HxCDF	6.12e3	1.38	NO	1.09	1.000	33.67	1.000	1.14	81.4	0.0714	1.14
13 2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14 1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15 1,2,3,4,6,7,8-HxCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16 1,2,3,4,7,8,9-HxCDF	4.31e3	1.07	NO	1.23	1.000	38.86	1.000	1.23	98.5	0.129	1.23
17 OCDF	1.16e4	0.86	NO	1.10	1.000	41.69	1.000	3.48	139	0.191	3.48
18 13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	96.8	96.5	0.219	
19 13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20 13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21 13C-1,2,3,6,7,8-HxCDD	3.71e5	1.27	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22 13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23 13C-1,2,3,4,6,7,8-HxCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	
24 13C-OCDD	4.62e5	0.90	NO	0.47	1.000	41.46	1.222	198	98.8	0.525	
25 13C-2,3,7,8-TCDF	8.07e5	0.79	NO	0.98	1.000	25.48	0.992	99.2	99.2	0.417	
26 13C-1,2,3,7,8-PeCDF	6.20e5	1.64	NO	0.78	1.000	29.89	1.164	95.7	95.7	0.333	
27 13C-2,3,4,7,8-PeCDF	5.77e5	1.56	NO	0.75	1.000	30.84	1.201	92.4	92.4	0.346	
28 13C-1,2,3,4,7,8-HxCDF	4.01e5	0.52	NO	0.85	1.000	33.53	0.988	95.3	95.3	0.571	
29 13C-1,2,3,6,7,8-HxCDF	4.90e5	0.53	NO	1.03	1.000	33.65	0.992	95.9	95.9	0.470	
30 13C-2,3,4,6,7,8-HxCDF	4.48e5	0.50	NO	0.89	1.000	34.25	1.009	101	101	0.541	
31 13C-1,2,3,7,8,9-HxCDF	3.43e5	0.52	NO	0.73	1.000	35.17	1.036	94.0	94.0	0.658	



Name	Resp	RA	nV	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC	
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.000	2.32	92.6	0.123	2.31
8	2,3,7,8-TCDF	1.85e3	0.61	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9	1,2,3,4,7,8-PeCDF	7.12e3	1.67	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10	2,3,4,7,8-PeCDF	6.68e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11	1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.36	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14	1,2,3,7,8-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15	1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.23	1.000	36.86	1.000	1.23	96.5	0.129	1.23
17	OCDF	1.16e4	0.86	NO	1.10	1.000	41.89	1.000	3.48	136	0.191	3.48
18	13C-2,3,7,8-TCDD	5.80e5	0.79	NO	1.05	1.000	26.34	1.025	98.5	98.5	0.219	
19	13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20	13C-1,2,3,4,7,8-HxCDD	3.93e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21	13C-1,2,3,6,7,8-HxCDD	3.71e5	1.27	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.478	
22	13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	36.90	1.128	93.6	93.6	0.470	
24	13C-OCDD	4.62e5	0.90	NO	0.47	1.000	41.46	1.222	199	98.8	0.525	
25	13C-2,3,7,8-TCDF	8.07e5	0.79	NO	0.98	1.000	25.48	0.992	99.2	99.2	0.417	
26	13C-1,2,3,7,8-PeCDF	6.20e5	1.64	NO	0.78	1.000	29.89	1.164	95.7	95.7	0.333	
27	13C-2,3,4,7,8-PeCDF	5.77e5	1.56	NO	0.75	1.000	30.84	1.201	92.4	92.4	0.346	
28	13C-1,2,3,4,7,8-HxCDF	4.01e5	0.52	NO	0.85	1.000	33.53	0.988	95.3	95.3	0.571	
28	13C-1,2,3,6,7,8-HxCDF	4.90e5	0.53	NO	1.03	1.000	33.65	0.992	95.9	95.9	0.470	
30	13C-2,3,4,6,7,8-HxCDF	4.48e5	0.50	NO	0.89	1.000	34.25	1.009	101	101	0.541	
31	13C-1,2,3,7,8,9-HxCDF	3.43e5	0.52	NO	0.73	1.000	35.17	1.036	94.0	94.0	0.658	

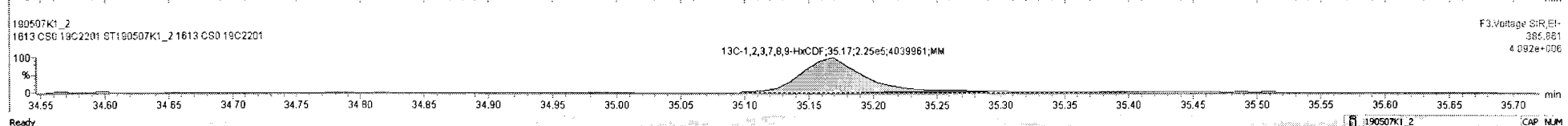
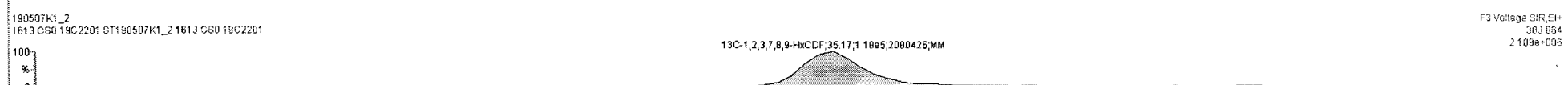
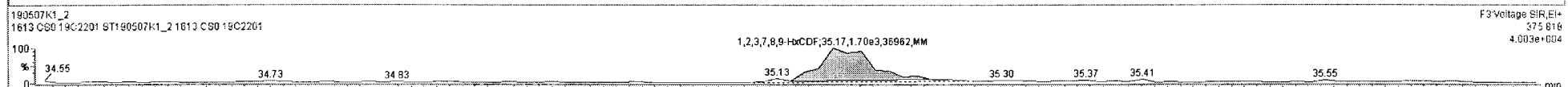
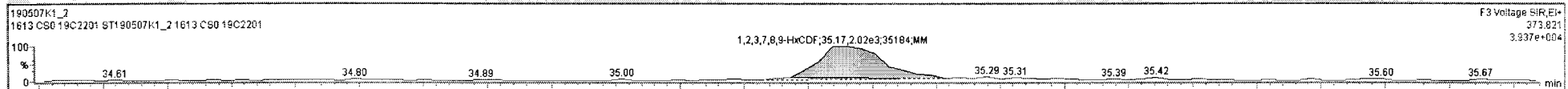


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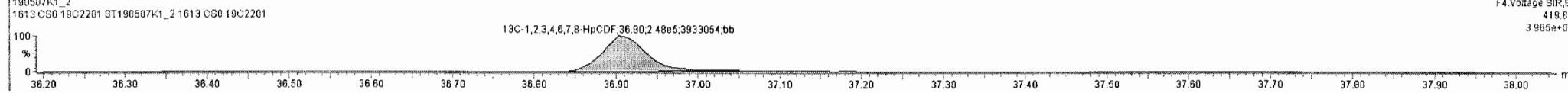
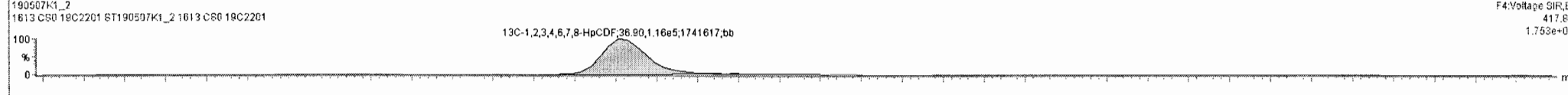
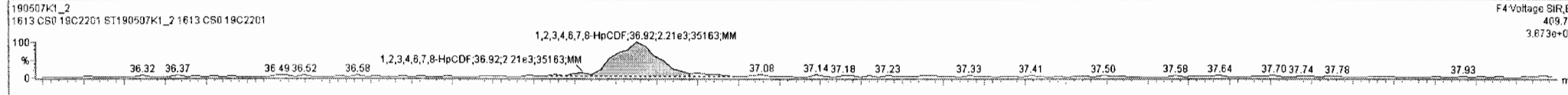
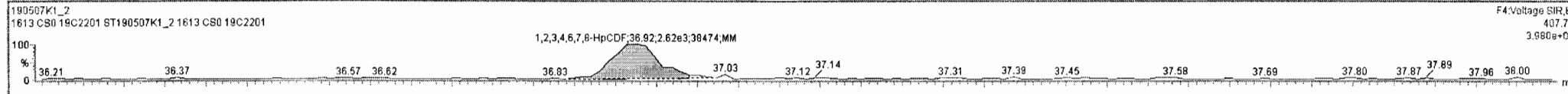
190507K1\_2 - ST190507K1\_2 1613 CS0 19C2201 - 1613 CS0 19C2201

#	Name	Resp	RA	nNY	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.000	2.32	92.6	0.123	2.31
8	2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9	1,2,3,7,8-PeCDF	7.12e3	1.67	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10	2,3,4,7,8-PeCDF	6.68e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11	1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	95.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.36	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14	1,2,3,7,8,9-HxCDF	3.79e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15	1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.23	1.000	38.86	1.000	1.23	96.5	0.129	1.23
17	OCDF	1.16e4	0.86	NO	1.10	1.000	41.69	1.000	3.48	139	0.191	3.48
18	13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	96.5	96.5	0.219	
19	13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20	13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21	13C-1,2,3,6,7,8-HxCDD	3.71e5	1.27	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.478	
22	13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	36.30	1.128	93.6	93.6	0.470	
24	13C-OCDD	4.82e5	0.90	NO	0.47	1.000	41.46	1.222	198	98.8	0.525	
25	13C-2,3,7,8-TCDF	8.07e5	0.79	NO	0.98	1.000	25.48	0.992	99.2	99.2	0.417	
26	13C-1,2,3,7,8-PeCDF	6.20e5	1.64	NO	0.78	1.000	29.89	1.164	95.7	95.7	0.333	
27	13C-2,3,4,7,8-PeCDF	5.77e5	1.56	NO	0.75	1.000	30.84	1.201	92.4	92.4	0.346	
28	13C-1,2,3,4,7,8-HxCDF	4.01e5	0.52	NO	0.85	1.000	33.53	0.988	95.3	95.3	0.571	
29	13C-1,2,3,6,7,8-HxCDF	4.90e5	0.53	NO	1.03	1.000	33.65	0.992	95.9	95.9	0.470	
30	13C-2,3,4,6,7,8-HxCDF	4.48e5	0.50	NO	0.89	1.000	34.25	1.009	101	101	0.541	
31	13C-1,2,3,7,8,9-HxCDF	3.43e5	0.52	NO	0.73	1.000	35.17	1.036	94.0	94.0	0.658	



190507K1\_2 - ST190507K1\_2 1613 CS0 19C2201 - 1613 CS0 19C2201

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.000	2.32	92.6	0.123	2.31
8 2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9 1,2,3,7,8-PeCDF	7.12e3	1.67	NO	0.98	1.000	29.69	1.000	1.17	93.7	0.0634	1.17
10 2,3,4,7,8-PeCDF	6.68e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11 1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12 1,2,3,6,7,8-HxCDF	6.12e3	1.36	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13 2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	96.9	0.0704	1.09
14 1,2,3,7,8,9-HxCDF	3.79e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15 1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.16	94.1	0.115	1.16
16 1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.23	1.000	38.86	1.000	1.23	98.5	0.129	1.23
17 OCDF	1.16e4	0.86	NO	1.10	1.000	41.69	1.000	3.48	139	0.191	3.48
18 13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19 13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20 13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21 13C-1,2,3,6,7,8-HxCDD	3.71e5	1.27	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22 13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23 13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	36.30	1.128	93.6	93.6	0.470	
24 13C-OCDD	4.62e5	0.90	NO	0.47	1.000	41.46	1.222	198	98.8	0.525	
25 13C-2,3,7,8-TCDF	8.07e5	0.79	NO	0.98	1.000	25.48	0.992	99.2	99.2	0.417	
26 13C-1,2,3,7,8-PeCDF	6.20e5	1.64	NO	0.78	1.000	29.89	1.164	95.7	95.7	0.333	
27 13C-2,3,4,7,8-PeCDF	5.77e5	1.56	NO	0.75	1.000	30.84	1.201	92.4	92.4	0.346	
28 13C-1,2,3,4,7,8-HxCDF	4.01e5	0.52	NO	0.85	1.000	33.53	0.988	95.3	95.3	0.571	
29 13C-1,2,3,6,7,8-HxCDF	4.90e5	0.53	NO	1.03	1.000	33.65	0.992	95.9	95.9	0.470	
30 13C-2,3,4,6,7,8-HxCDF	4.48e5	0.50	NO	0.89	1.000	34.25	1.009	101	101	0.541	
31 13C-1,2,3,7,8,9-HxCDF	3.43e5	0.52	NO	0.73	1.000	35.17	1.036	94.0	94.0	0.658	

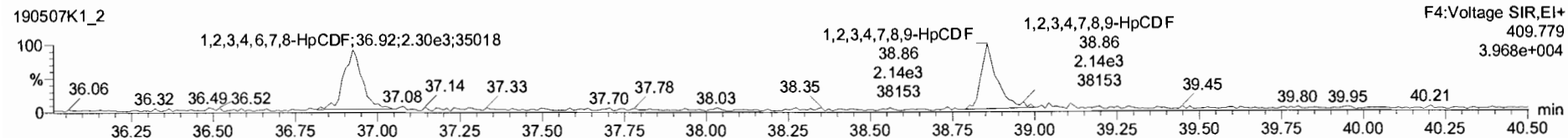
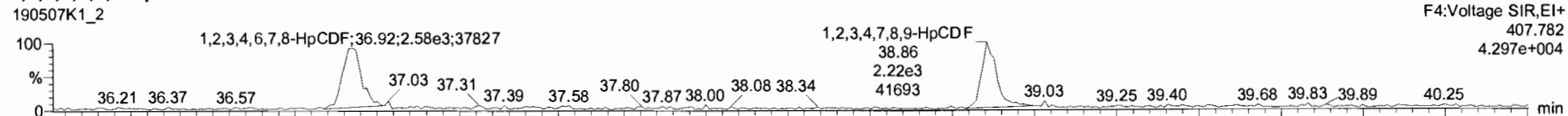


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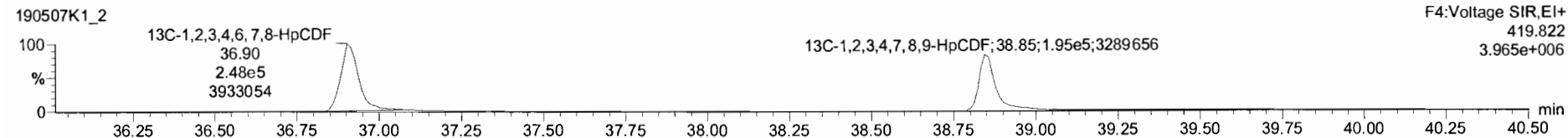
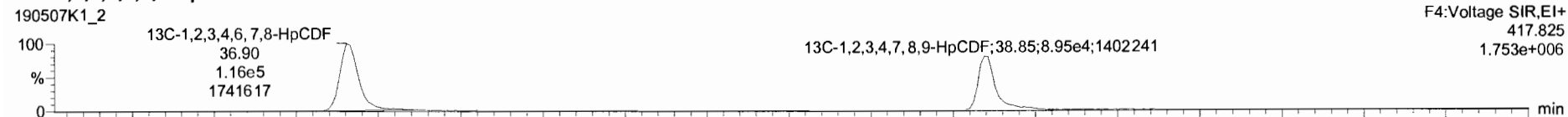
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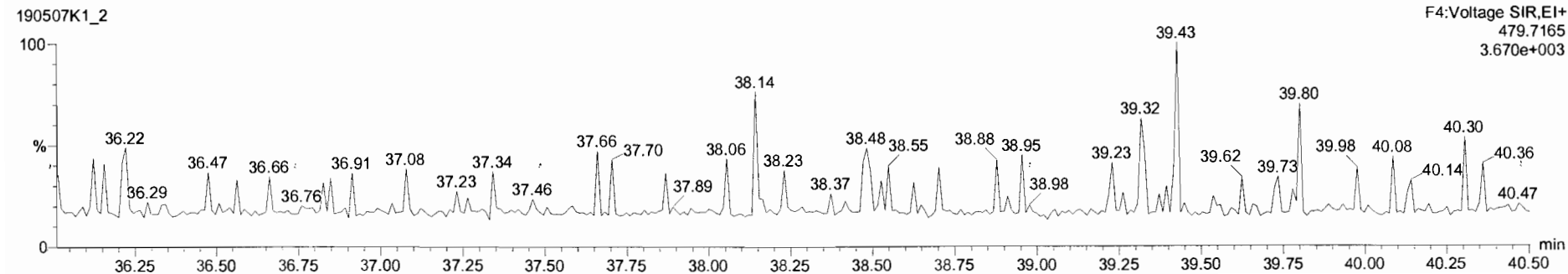
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**13C-1,2,3,4,6,7,8-HpCDF**

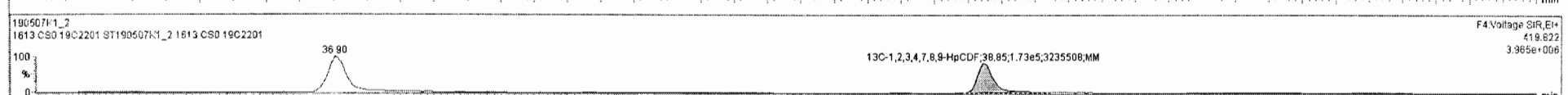
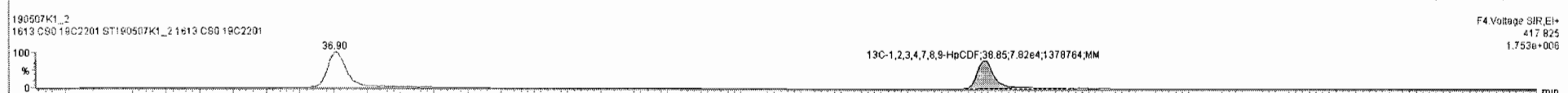
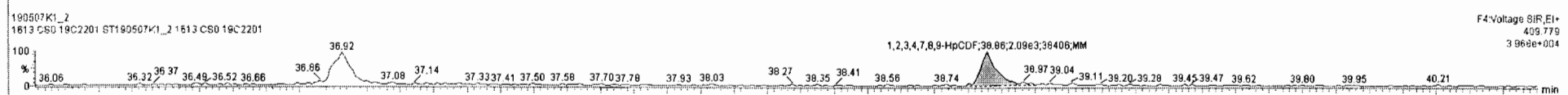
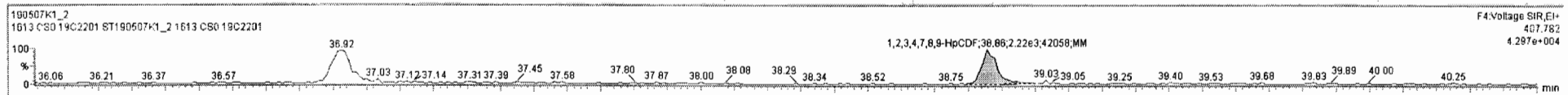
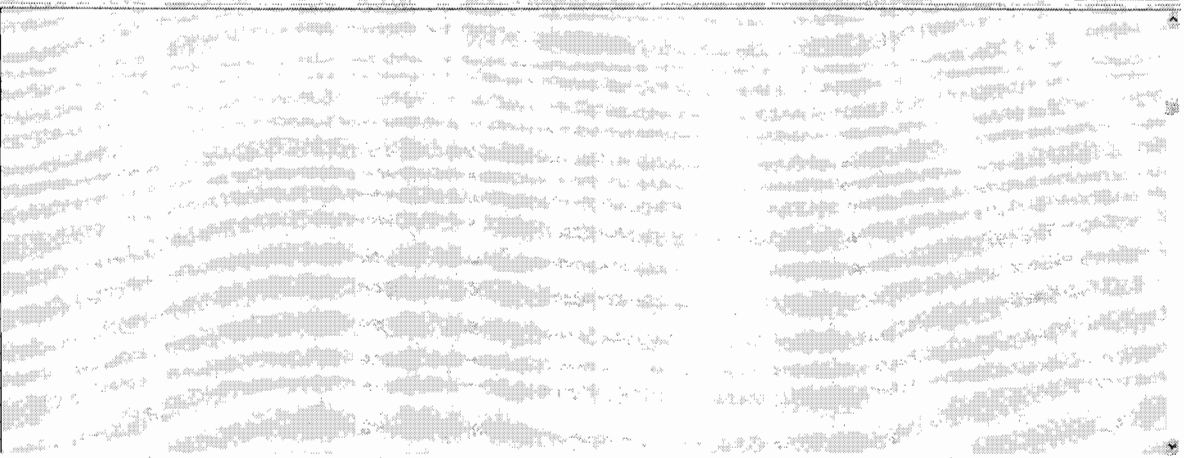


**DPE4**



190507K1\_2 - ST190507K1\_2 1613 CS0 19C2201 - 1613 CS0 19C2201

Name	Resp	RA	idy	RRF	wtAvl	RT	RRT	Conc	%Rec	DL	EMPC	
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8	2,3,7,8-TCDF	1.85e3	0.81	NO	0.84	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9	1,2,3,7,8-PeCDF	7.12e3	1.68	NO	0.99	1.000	29.69	1.000	1.17	93.7	0.0634	1.17
10	2,3,4,7,8-PeCDF	6.88e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11	1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14	1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15	1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.26	1.000	39.86	1.000	1.37	109	0.122	1.32
17	OCDF	1.16e4	0.85	NO	1.10	1.000	41.69	1.000	3.48	139	0.191	3.48
18	13C-2,3,7,8-TCDD	5.60e5	0.78	NO	1.05	1.000	26.34	1.026	89.5	99.5	0.219	
19	13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20	13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.85	1.000	34.40	1.014	94.1	94.1	0.572	
21	13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22	13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.86	1.000	34.80	1.025	87.9	87.9	0.558	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	
24	13C-OCDD	4.62e5	0.91	NO	0.47	1.000	41.46	1.221	198	98.8	0.525	
25	13C-2,3,7,8-TCDF	8.07e5	0.79	NO	0.98	1.000	25.48	0.992	99.2	99.2	0.417	
26	13C-1,2,3,7,8-PeCDF	6.20e5	1.64	NO	0.78	1.000	29.69	1.164	95.7	95.7	0.333	
27	13C-2,3,4,7,8-PeCDF	5.77e5	1.56	NO	0.75	1.000	30.84	1.201	92.4	92.4	0.346	
28	13C-1,2,3,4,7,8-HxCDF	4.01e5	0.52	NO	0.95	1.000	33.53	0.998	95.3	95.3	0.571	
29	13C-1,2,3,6,7,8-HxCDF	4.59e5	0.53	NO	1.03	1.000	33.65	0.992	95.9	95.9	0.470	
30	13C-2,3,4,6,7,8-HxCDF	4.48e5	0.50	NO	0.89	1.000	34.25	1.009	101	101	0.541	
31	13C-1,2,3,7,8,9-HxCDF	3.43e5	0.53	NO	0.73	1.000	35.17	1.036	94.0	94.0	0.658	

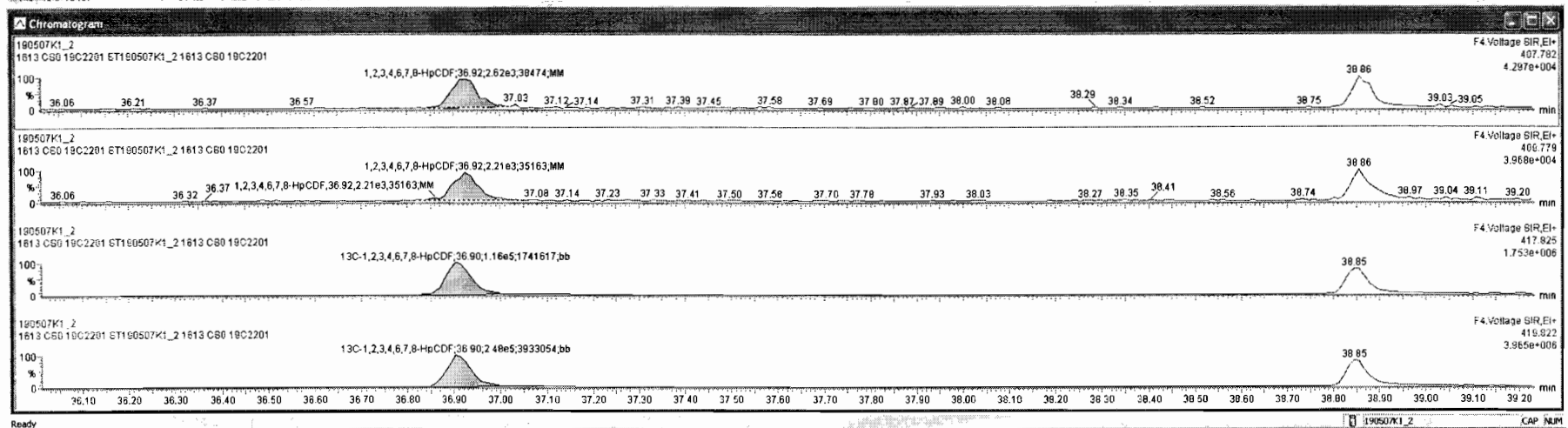




Target Lynx - 190507K1\_CRY.qld

190507K1\_2-ST190507K1\_2-1613.CS0-19C2201-1613.CS0-19C2201

Name	Resp	RA	rv	REF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC	
1	2,3,7,8-TCDD	1.33e3	0.88	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2	1,2,3,7,8-PeCDD	4.13e3	0.67	NO	0.80	1.000	31.14	1.001	1.20	95.3	0.0640	1.20
3	1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4	1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0448	1.23
5	1,2,3,7,8,9-HxCDD	3.68e3	1.08	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6	1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	38.32	1.001	1.24	99.2	0.0752	1.24
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8	2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0608	0.245
9	1,2,3,7,8-PeCDF	6.79e3	1.92	YES	0.97	1.000	29.89	1.000	1.12	89.9	0.0638	0.981
10	2,3,4,7,8-HxCDF	6.68e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11	1,2,3,4,6,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	95.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14	1,2,3,7,8,9-HxCDF	3.74e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.119	1.01
15	1,2,3,4,6,7,8-HpCDF	4.62e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	OCDF	4.31e3	1.07	NO	1.26	1.000	38.86	1.000	1.37	109	0.127	1.37
17	1,2,3,7,8-TCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	139	0.191	3.49
18	1,2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.028	88.5	88.5	0.219	
19	1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20	1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21	1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22	1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.559	
23	1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	





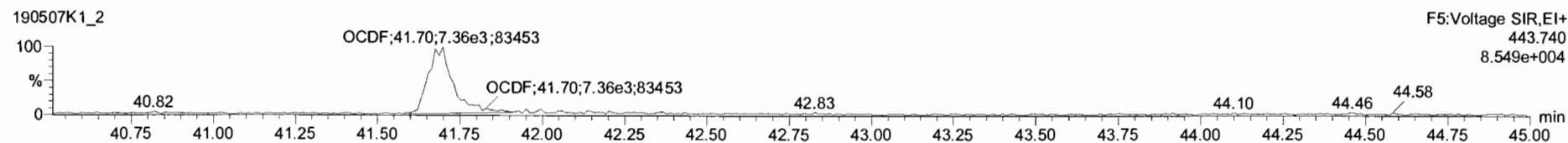
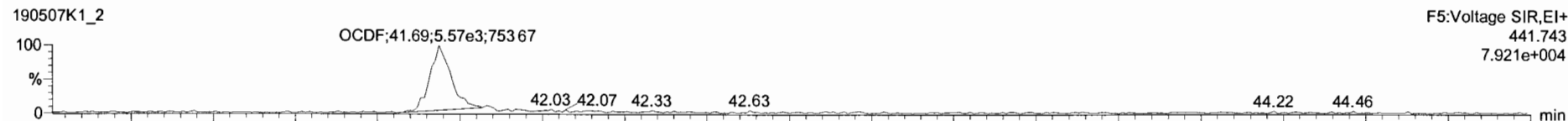
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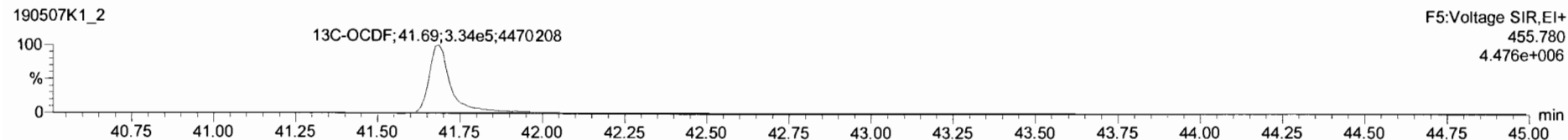
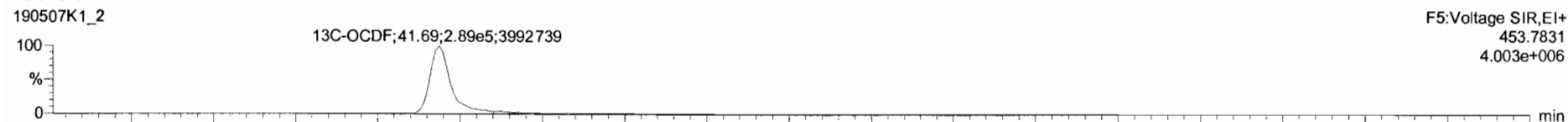
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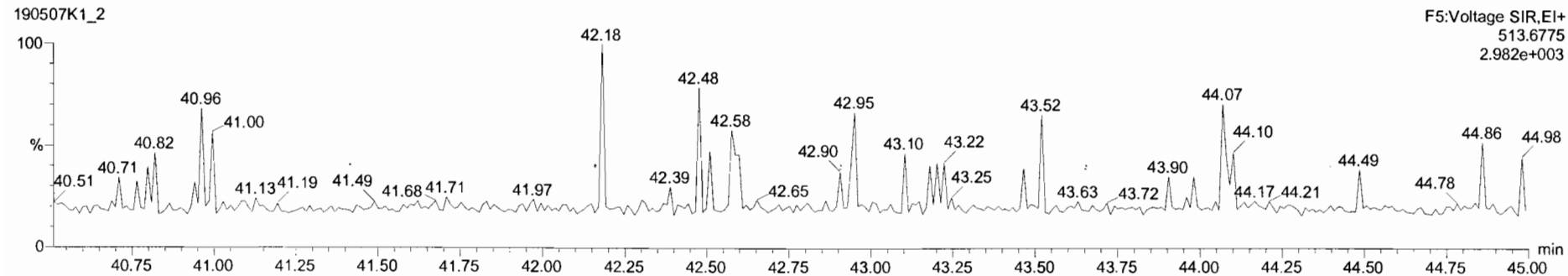
**OCDF**



**13C-OCDF**



**DPE5**

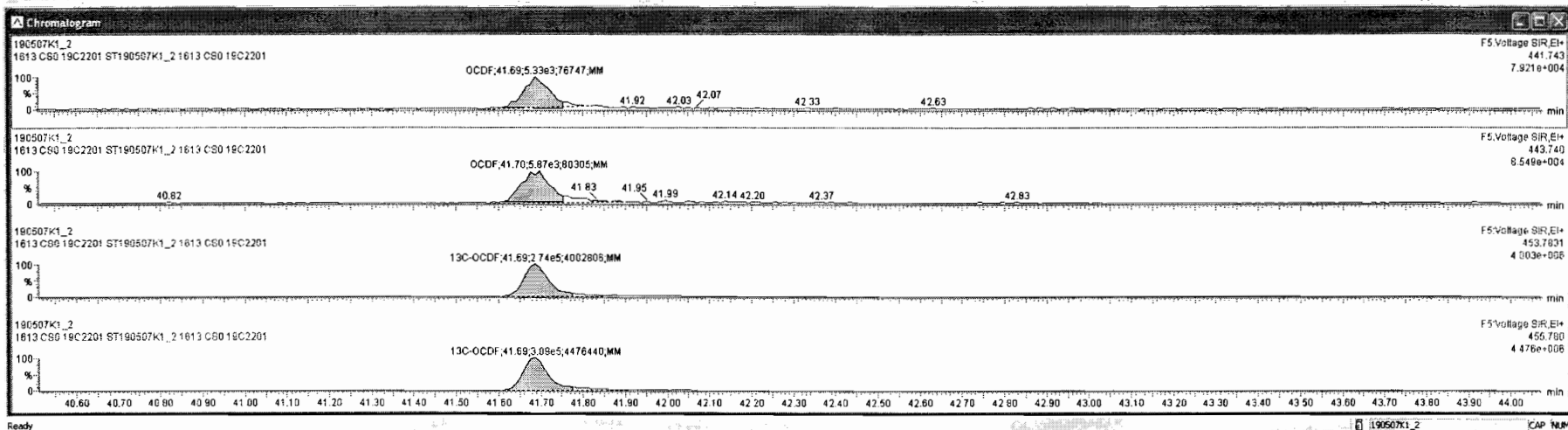


Target: lymx - 190507K1 - CRV.gld

File Edit View Display Processing Window Help

190507K1\_2 - ST190507K1\_2-1613 CS0 19C2201 - 1613 CS0 19C2201

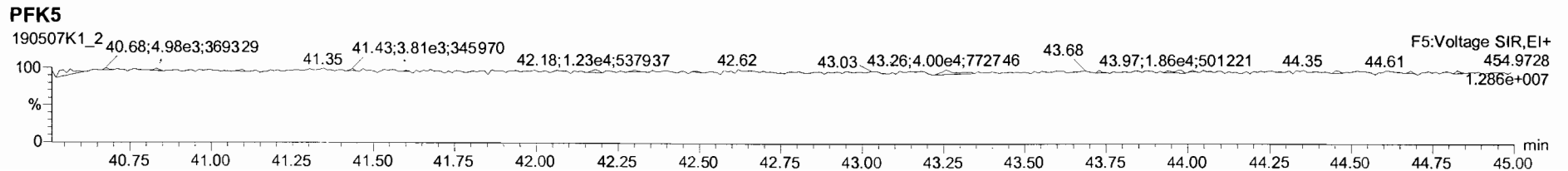
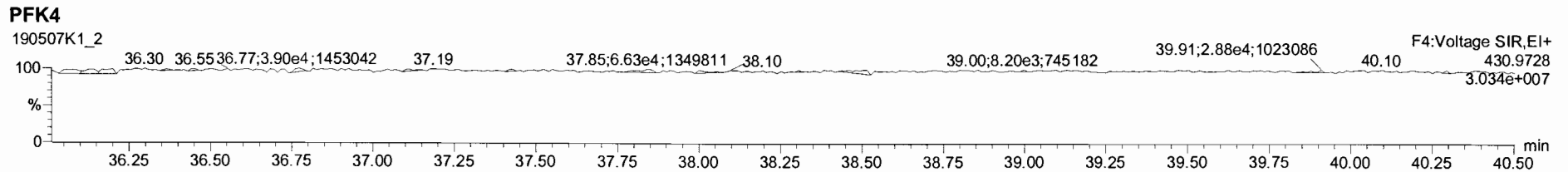
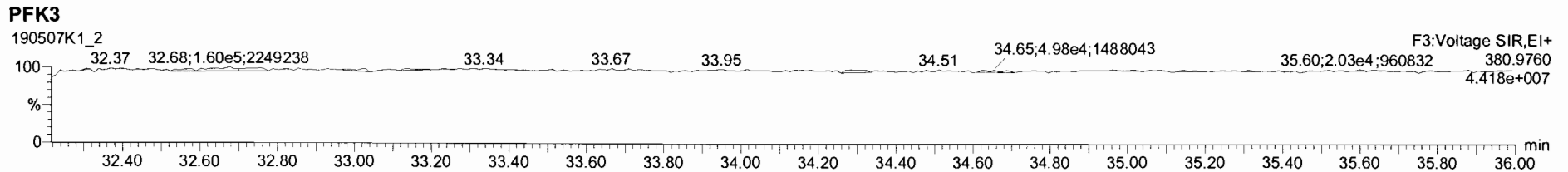
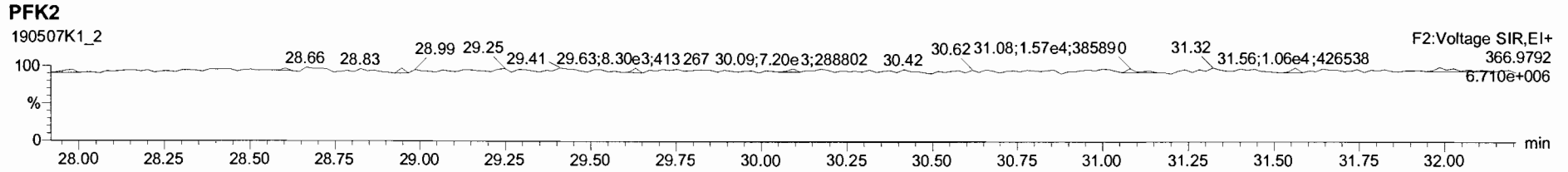
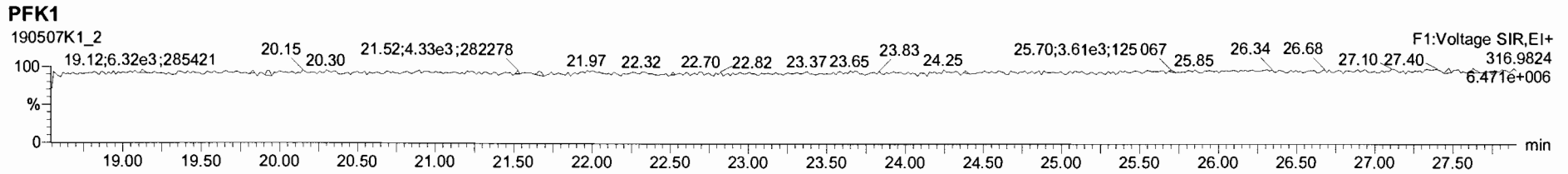
#	Name	Resp	RA	IIV	RRF	WtVol	RT	RRT	Conc	%Rec	DL	EMPC
7	OCDF	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8	2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9	1,2,3,7,8-PeCDF	7.12e3	1.68	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10	2,3,4,7,8-PeCDF	6.88e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0662	1.15
11	1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.08	86.9	0.0704	1.08
14	1,2,3,7,8,9-HxCDF	3.73e3	1.18	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15	1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.26	1.000	36.86	1.000	1.37	109	0.127	1.37
17	OCDF	1.12e4	0.91	NO	1.10	1.000	41.60	1.000	3.48	136	0.191	3.48
18	13C-2,3,7,8-TCDD	5.90e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19	13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20	13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21	13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22	13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	
24	13C-OCDD	4.62e5	0.91	NO	0.47	1.000	41.46	1.221	198	98.8	0.525	
25	13C-2,3,7,8-TCDF	8.07e5	0.79	NO	0.98	1.000	25.48	0.992	99.2	99.2	0.417	
26	13C-1,2,3,7,8-PeCDF	6.20e5	1.64	NO	0.78	1.000	29.89	1.164	95.7	95.7	0.333	
27	13C-2,3,4,7,8-PeCDF	5.77e5	1.56	NO	0.75	1.000	30.84	1.201	92.4	92.4	0.348	
28	13C-1,2,3,4,7,8-HxCDF	4.01e5	0.52	NO	0.85	1.000	33.53	0.988	95.3	95.3	0.571	
29	13C-1,2,3,6,7,8-HxCDF	4.90e5	0.53	NO	1.03	1.000	33.65	0.992	95.9	95.9	0.470	



Dataset: Untitled

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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

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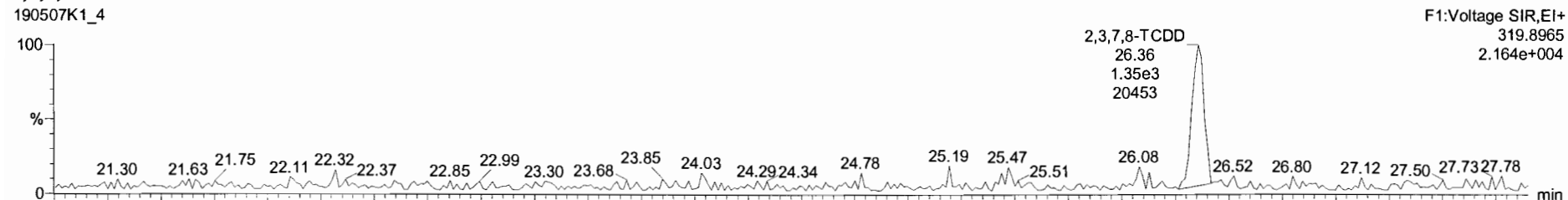
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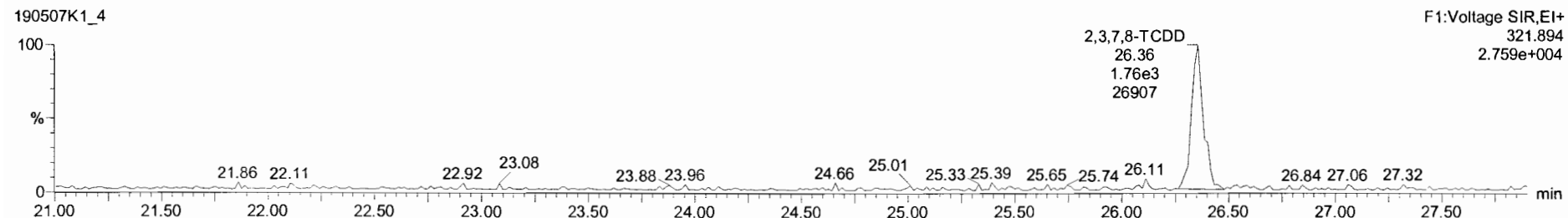
Name: 190507K1\_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1\_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202

**2,3,7,8-TCDD**

190507K1\_4



190507K1\_4

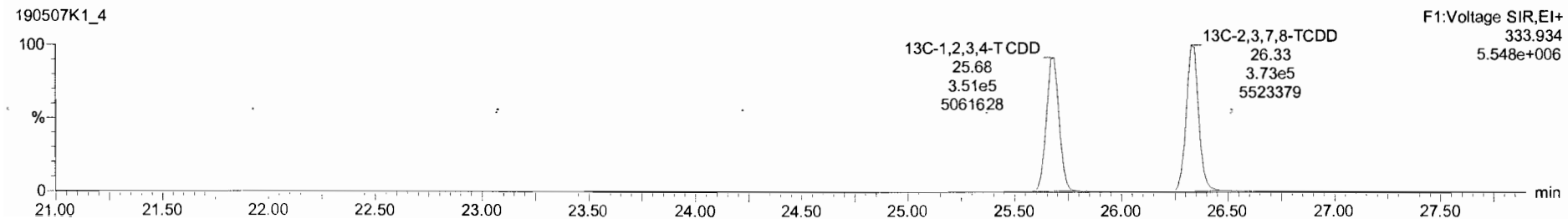


**13C-2,3,7,8-TCDD**

190507K1\_4



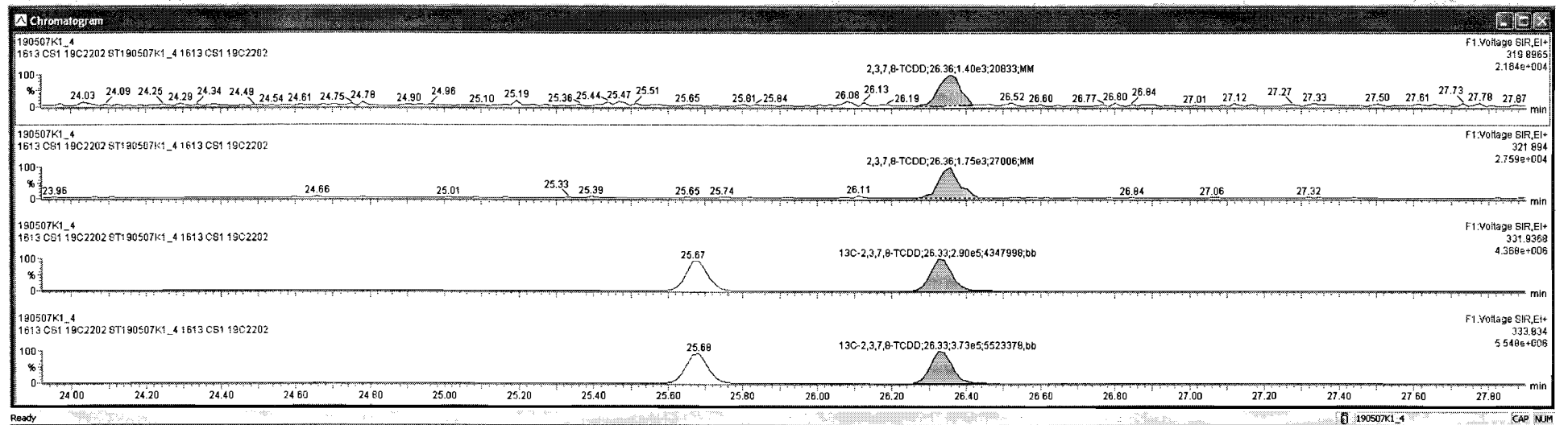
190507K1\_4



Target.ynx 190507K1 CRV.qld

190507K1\_4 - ST190507K1\_4 1613 CS1 19C2202 - 1613 CS1 19C2202

Name	Resp	RA	RY	RRF	wt/Vol	RT	RRT	Conc	%Rec	IL	EMPC
1 2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2 1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3 1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0980	2.32
4 1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5 1,2,3,7,8,9-HxCDD	8.26e3	1.22	NO	0.97	1.000	34.60	1.000	2.48	99.1	0.118	2.48
6 1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7 OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8 2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9 1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10 2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11 1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12 1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13 2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14 1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.16	1.000	2.42	96.9	0.138	2.42
15 1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.5	0.119	2.44
16 1,2,3,4,7,8,9-HpCDF	8.36e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17 OCDF	1.58e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18 13C-2,3,7,8-TCDD	6.64e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19 13C-1,2,3,7,8-PeCDD	4.65e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20 13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.85	1.000	34.40	1.014	96.7	96.7	0.418	
21 13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.66	1.000	34.78	1.025	92.7	92.7	0.407	
23 13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.08	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	



Dataset: Untitled

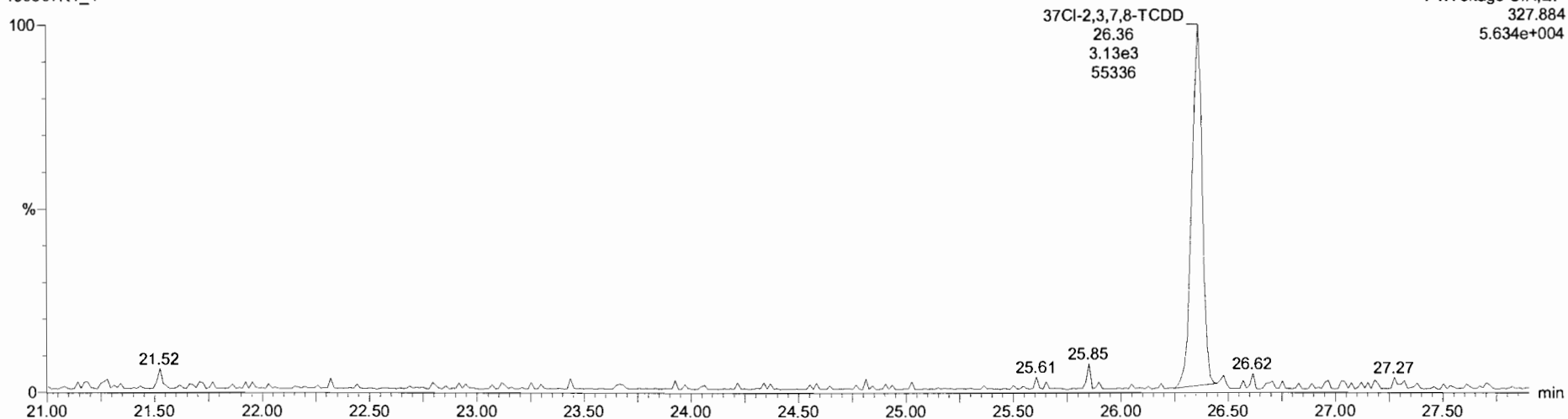
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1\_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202

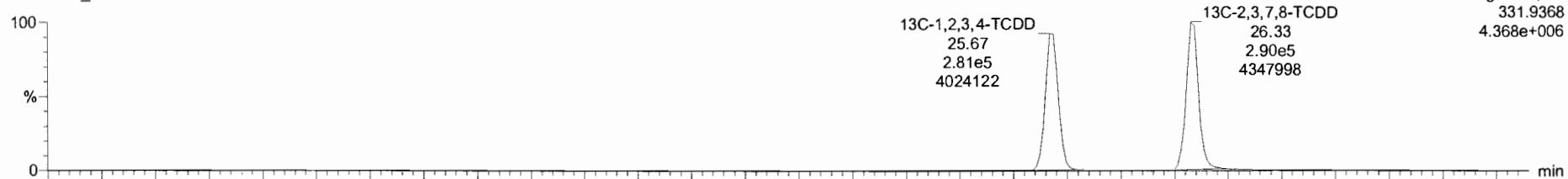
**37Cl-2,3,7,8-TCDD**

190507K1\_4

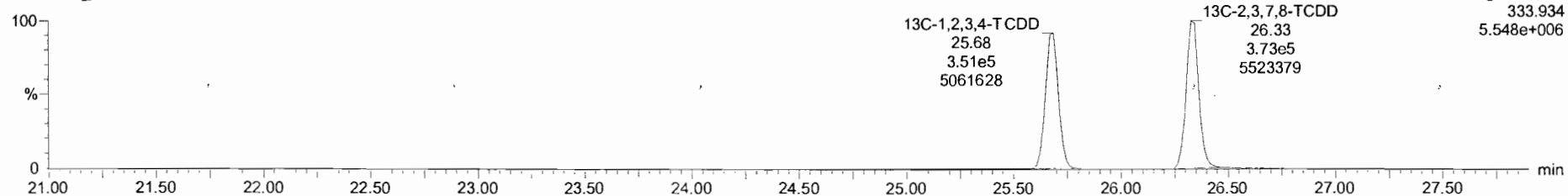


**13C-1,2,3,4-TCDD**

190507K1\_4



190507K1\_4



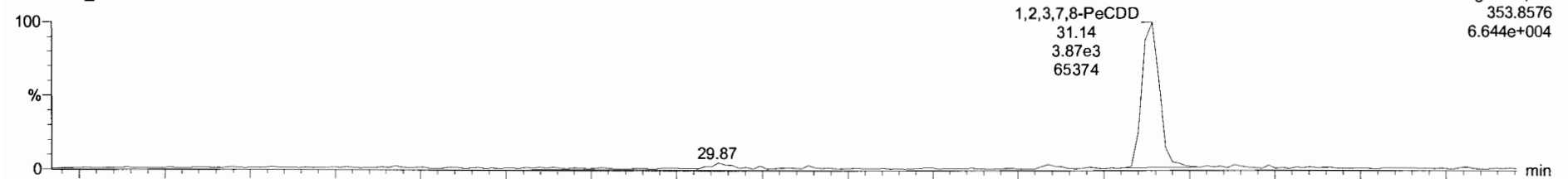
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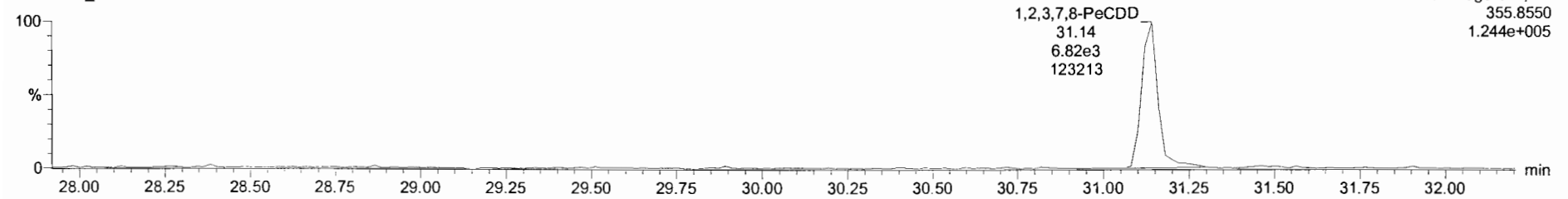
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**1,2,3,7,8-PeCDD**

190507K1\_4

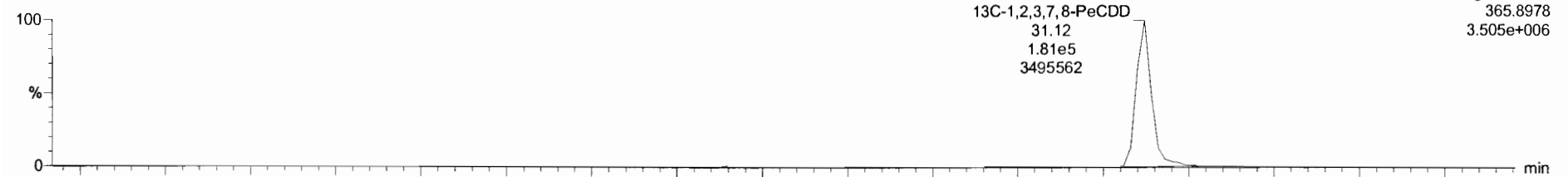


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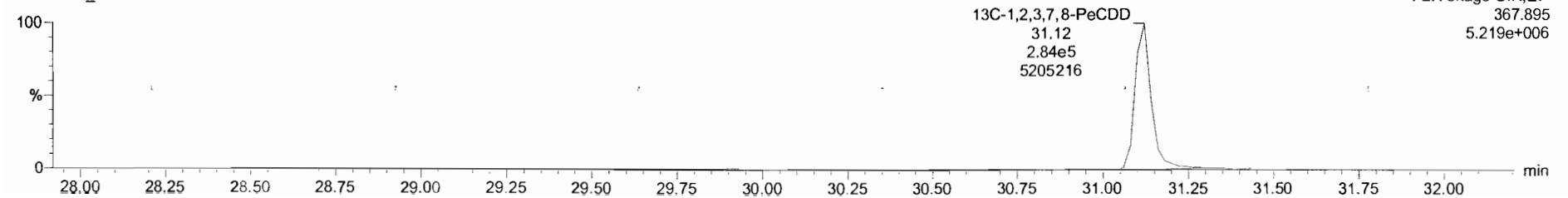


**13C-1,2,3,7,8-PeCDD**

190507K1\_4



190507K1\_4



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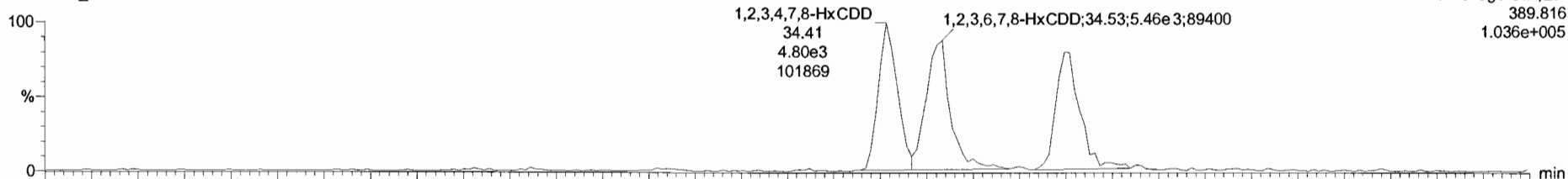
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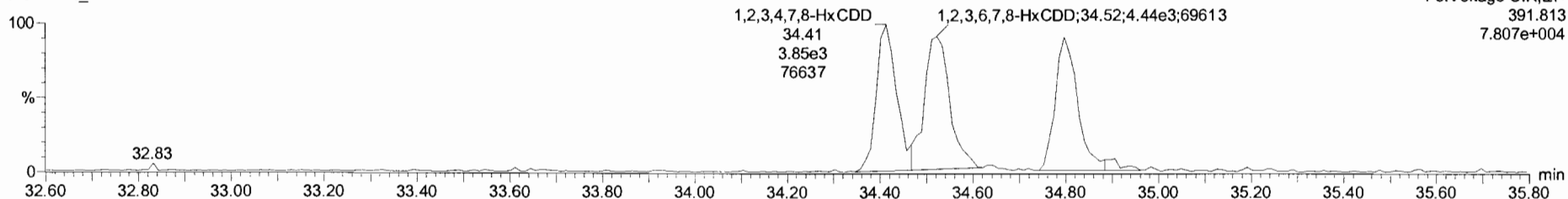
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**1,2,3,4,7,8-HxCDD**

190507K1\_4

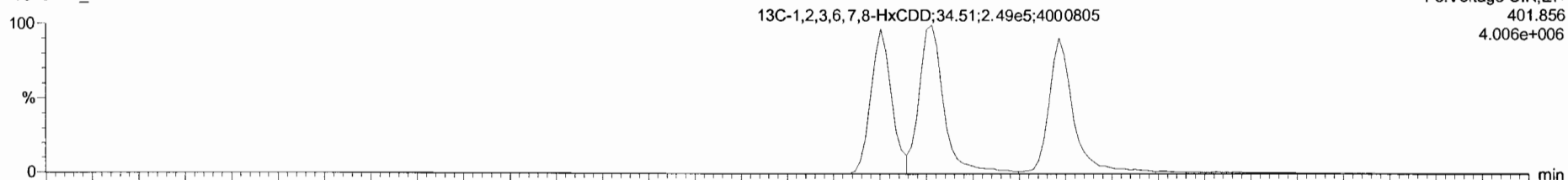


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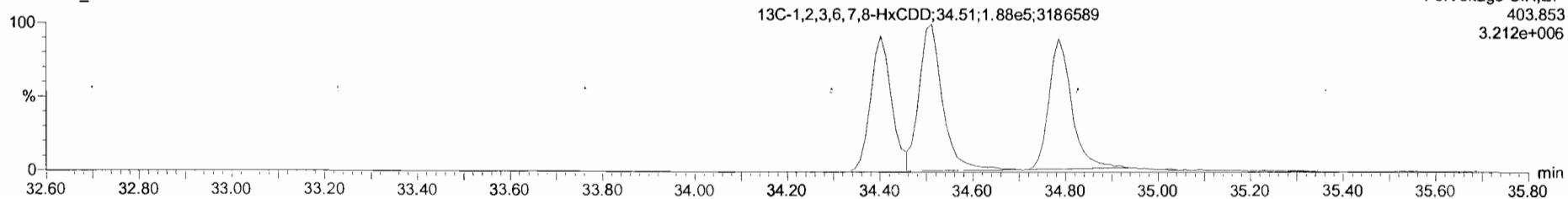


**13C-1,2,3,4,7,8-HxCDD**

190507K1\_4



190507K1\_4



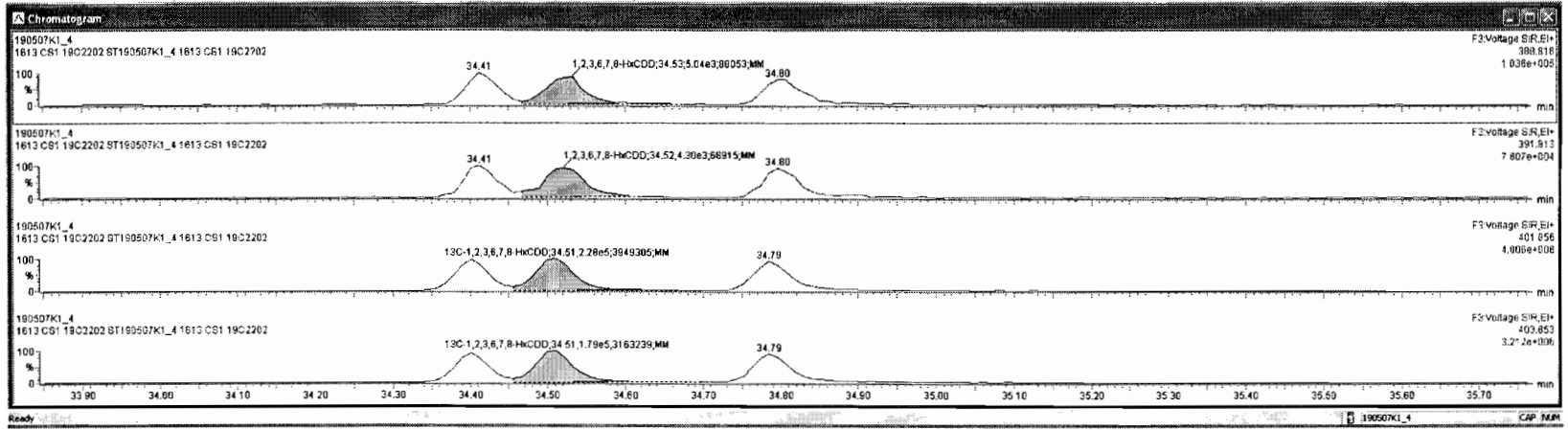


Targpt1.ynr 190507K1\_CRY.qtd

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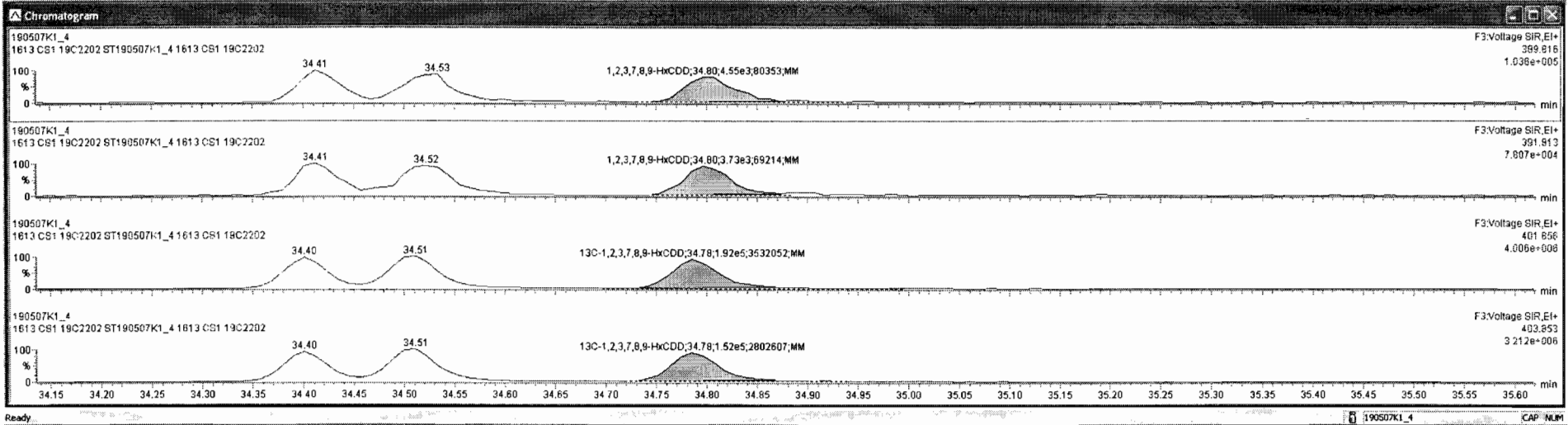
190507K1\_4 - ST190507K1\_4 1613 CS1 19C2202 - 1613 CS1 19C2202

#	Name	Resp	RA	rv	FWF	wt-wt	RT	RRT	Conv.	%Wgt	DC	EWPC
1	1,2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	36.38	1.001	0.513	100	0.8603	9.514
2	1,2,3,7,8-PeCDF	1.07e4	0.57	NO	0.80	1.000	37.14	1.001	2.54	102	0.0752	2.54
3	1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.000	34.41	1.000	3.32	92.6	0.0990	2.32
4	1,2,3,6,7,8-HxCDD	9.39e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.8	0.107	2.37
5	1,2,3,7,8,9-HxCDD	8.29e3	1.22	NO	0.97	1.000	34.60	1.000	2.48	99.1	0.119	2.48
6	1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7	OCDD	1.13e4	0.95	NO	0.87	1.000	41.46	1.000	4.97	96.5	0.150	4.97
8	1,2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9	1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.87	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10	1,2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.66	1.001	2.50	100	0.0598	2.50
11	1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.39	96.1	0.0897	2.39
12	1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13	1,2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0840	2.43
14	1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.43	98.8	0.138	2.42
15	1,2,3,4,6,7,8-HpCDF	1.17e4	1.03	NO	1.13	1.000	36.51	1.000	2.44	97.6	0.119	2.44
16	1,2,3,4,7,8,9-HpCDF	8.26e3	1.04	NO	1.26	1.000	38.86	1.000	2.39	91.4	0.141	2.28
17	OCDF	1.59e4	0.88	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18	13C-1,2,3,7,8-TCDD	8.84e5	0.78	NO	1.05	1.000	36.33	1.025	100	100	0.249	
19	13C-1,2,3,7,8-PeCDD	4.85e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20	13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.65	1.000	34.40	1.014	96.7	96.7	0.418	
21	13C-1,2,3,6,7,8-HxCDD	4.07e5	1.26	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.66	1.000	34.78	1.025	92.7	92.7	0.407	
23	13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	



190507k1\_4 - ST190507k1\_4 1613 CS1 19C2202 - 1613 CS1 19C2202

None	Resp	RA	inv	RRF	wtVal	RT	RRT	Conc	%Rec	DL	EMPC	
1	2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2	1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3	1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0990	2.32
4	1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.8	0.107	2.37
5	1,2,3,7,8,9-HxCDD	8.28e3	1.22	NO	0.97	1.000	34.80	1.000	2.49	99.1	0.119	2.48
6	1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7	OCDD	1.13e4	0.85	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8	2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9	1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10	2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11	1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12	1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13	2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14	1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15	1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	38.91	1.000	2.44	97.6	0.119	2.44
16	1,2,3,4,7,8,9-HpCDF	8.36e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17	OCDF	1.58e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18	13C-2,3,7,8-TCDD	6.84e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19	13C-1,2,3,7,8-PeCDD	4.85e5	0.84	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20	13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.85	1.000	34.40	1.014	96.7	96.7	0.418	
21	13C-1,2,3,6,7,8-HxCDD	4.07e5	1.26	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.86	1.000	34.78	1.025	92.7	92.7	0.407	
23	13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	



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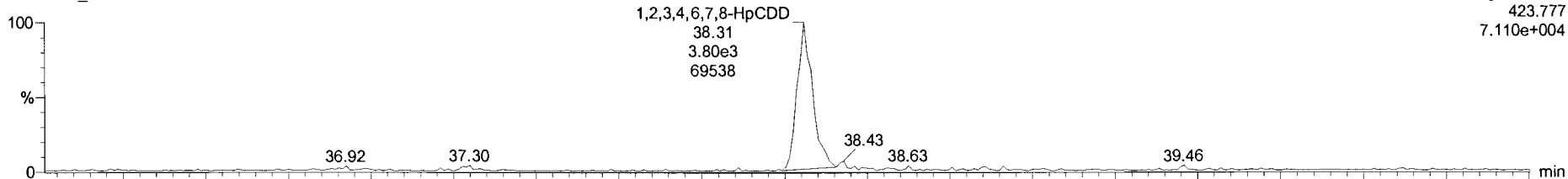
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

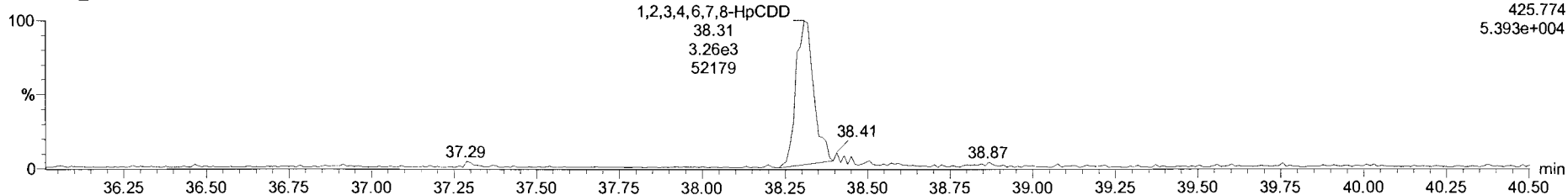
Name: 190507K1\_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1\_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202

**1,2,3,4,6,7,8-HpCDD**

190507K1\_4

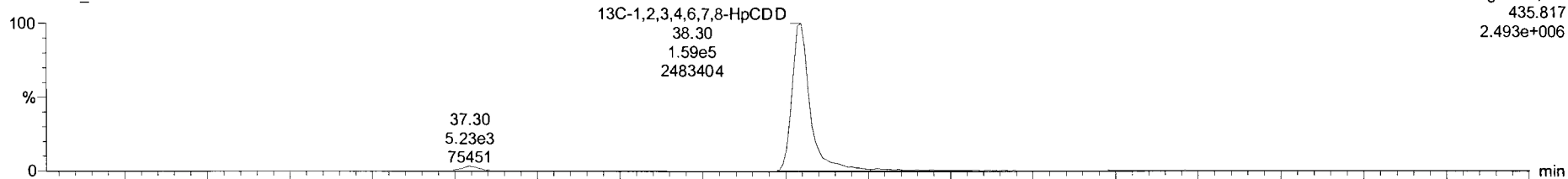


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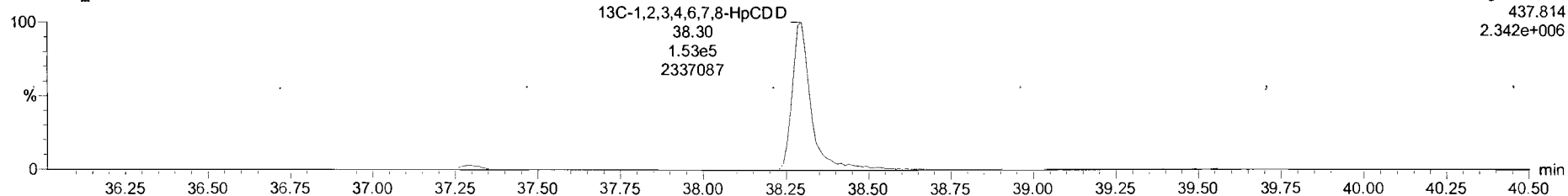


**13C-1,2,3,4,6,7,8-HpCDD**

190507K1\_4



190507K1\_4

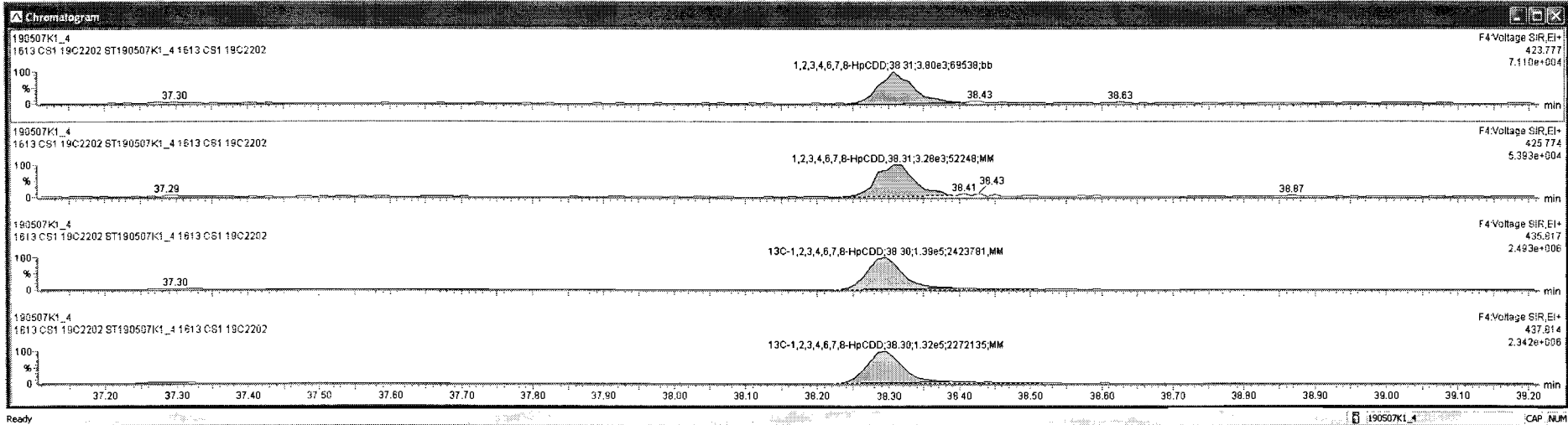


TargetLynx 190507K1.CRV.qld

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190507K1\_4 - ST190507K1\_4 1613 CS1 19C2202 - 1613 CS1 19C2202

Peak	Name	Resp	RA	dy	RF	w/Mol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2	1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3	1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.003	34.41	1.000	3.32	92.6	0.0980	2.32
4	1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5	1,2,3,7,8,9-HxCDD	8.28e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6	1,2,3,4,6,7,8-HpCDD	7.09e3	1.16	NO	1.03	1.000	38.31	1.000	2.56	102	0.102	2.56
7	OCDD	1.13e4	0.85	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8	2,3,7,8-TCDF	4.05e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9	1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10	2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11	1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12	1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13	2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14	1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15	1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16	1,2,3,4,7,8,9-HpCDF	8.36e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17	OCDF	1.58e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18	13C-2,3,7,8-TCDD	6.64e5	0.78	NO	1.05	1.000	26.33	1.026	100	100		249
19	13C-1,2,3,7,8-PeCDD	4.85e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1		331
20	13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.85	1.000	34.40	1.014	96.7	96.7		418
21	13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	83.6	93.8		348
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.68	1.000	34.78	1.025	92.7	92.7		407
23	13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5		511

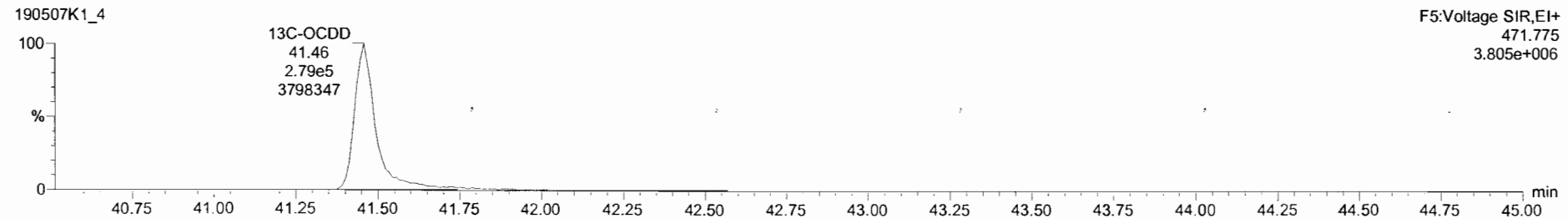
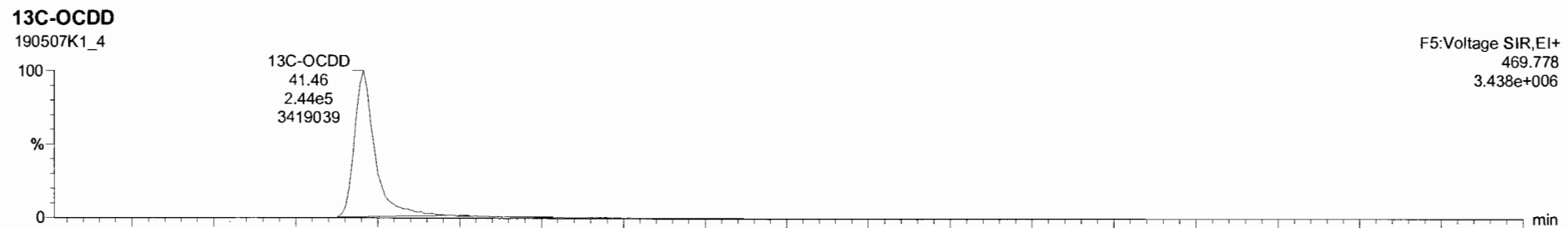
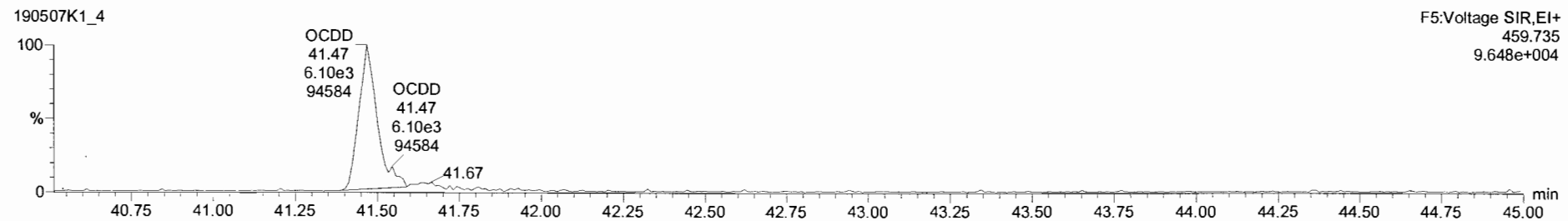
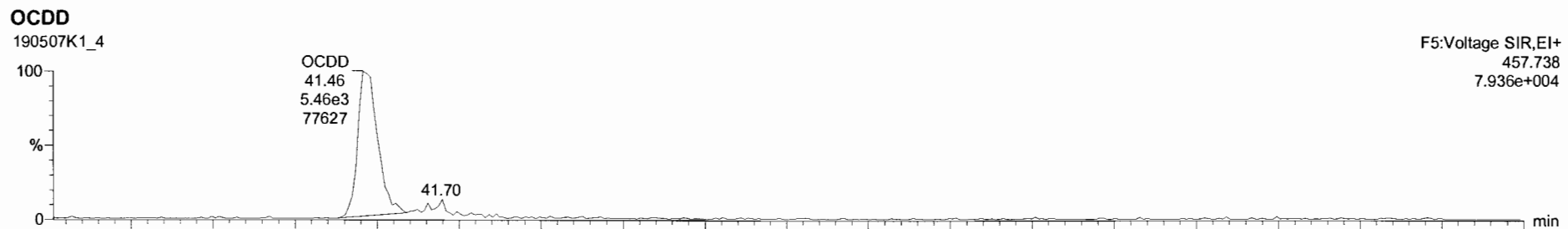


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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1\_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202

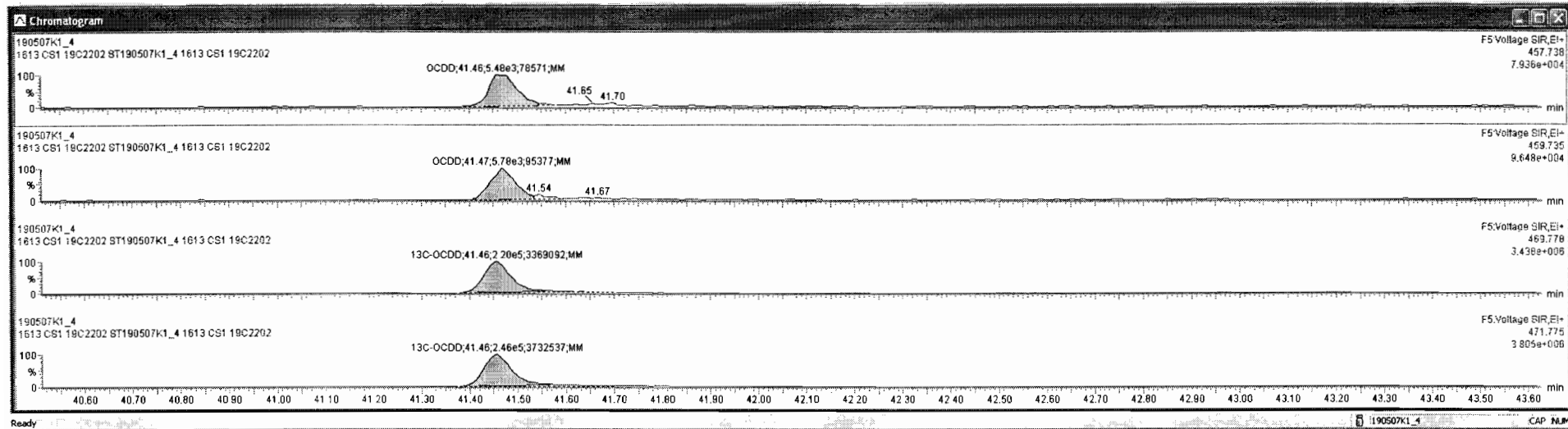


Target1.ynx - 190507K1-CRW.gld

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190507K1\_4-ST190507K1\_4 1613 CS1 19C2202- 1613 CS1 19C2202

Name	Resp	RA	nlv	RRF	retVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2 1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3 1,2,3,4,7,8-HxCDD	6.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0990	2.32
4 1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5 1,2,3,7,8,9-HxCDD	8.29e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6 1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7 OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8 2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.462	96.4	0.0452	0.462
9 1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10 2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11 1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12 1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.88	1.001	2.34	93.4	0.0875	2.34
13 2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14 1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.16	1.000	2.42	96.9	0.139	2.42
15 1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16 1,2,3,4,7,8,9-HpCDF	8.36e3	1.04	NO	1.26	1.000	36.86	1.000	2.28	91.4	0.141	2.28
17 OCDF	1.58e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18 13C-2,3,7,8-TCDD	6.64e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19 13C-1,2,3,7,8-PeCDD	4.65e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20 13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.85	1.000	34.40	1.014	96.7	96.7	0.418	
21 13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.86	1.000	34.78	1.025	92.7	92.7	0.407	
23 13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.08	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	



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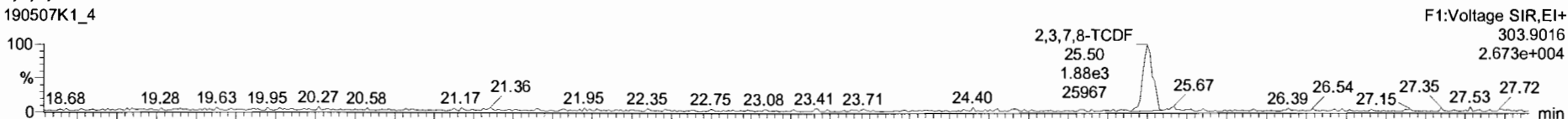
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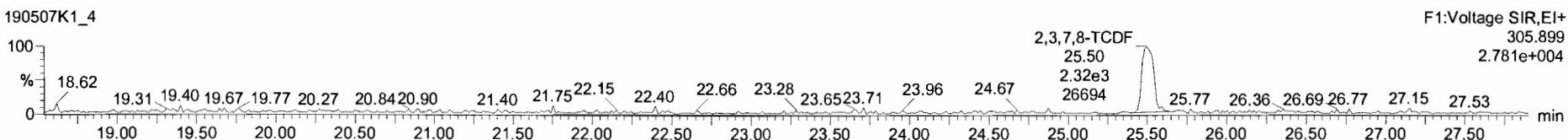
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**2,3,7,8-TCDF**

190507K1\_4

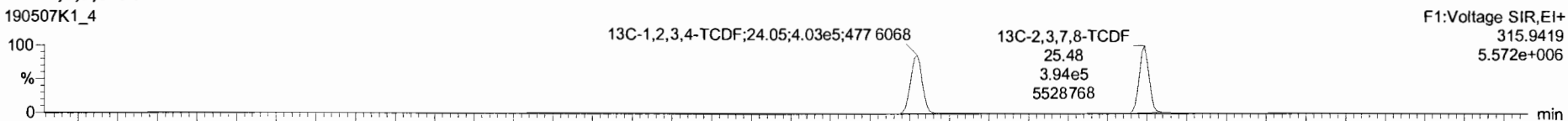


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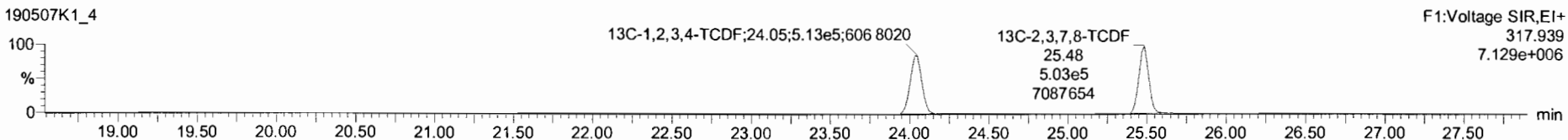


**13C-2,3,7,8-TCDF**

190507K1\_4

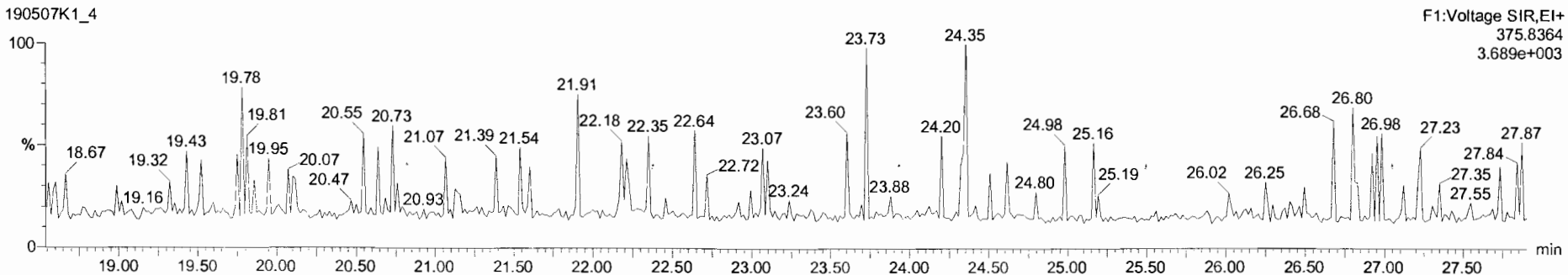


190507K1\_4



**DPE1**

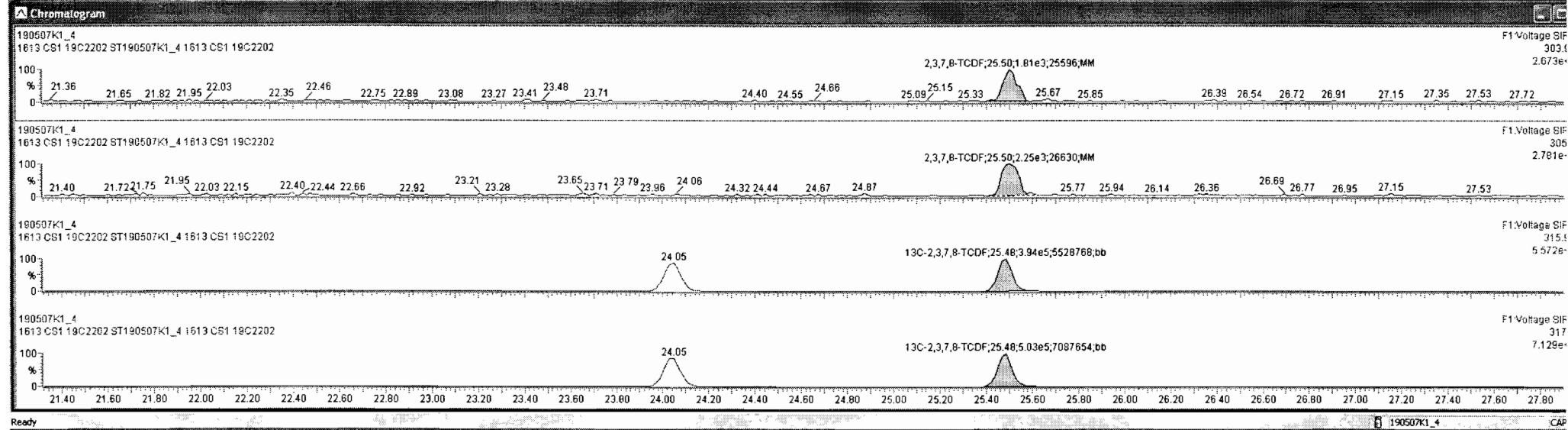
190507K1\_4





190507K1\_4 - ST190507K1\_4 1613 CS1 19C2202 - 1613 CS1 19C2202

Name	Resp	RA	n/y	RRF	wt/mol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0903	0.514
2 1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3 1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0980	2.32
4 1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5 1,2,3,7,8,9-HxCDD	8.28e3	1.22	NO	0.97	1.000	34.80	1.000	2.46	99.1	0.118	2.46
6 1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7 OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8 2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9 1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10 2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11 1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12 1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13 2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.16	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14 1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15 1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16 1,2,3,4,7,8,9-HpCDF	8.38e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17 OCDF	1.58e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18 13C-2,3,7,8-TCDD	6.84e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19 13C-1,2,3,7,8-PeCDD	4.85e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20 13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.65	1.000	34.40	1.014	96.7	96.7	0.418	
21 13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.66	1.000	34.78	1.025	92.7	92.7	0.407	
23 13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	





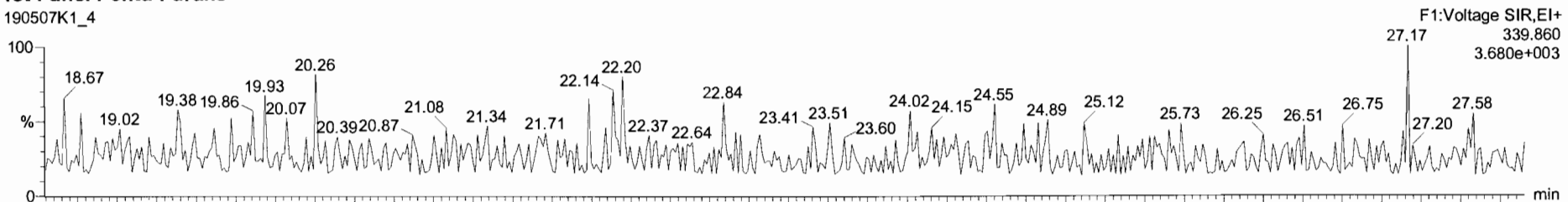
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

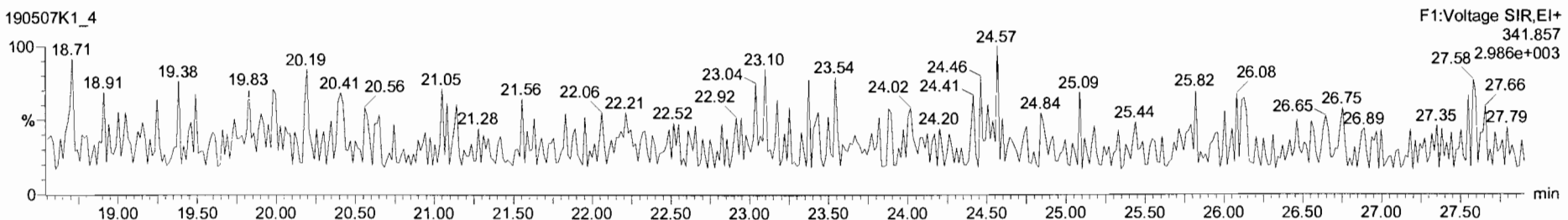
Name: 190507K1\_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1\_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202

1st Func. Penta-Furans

190507K1\_4

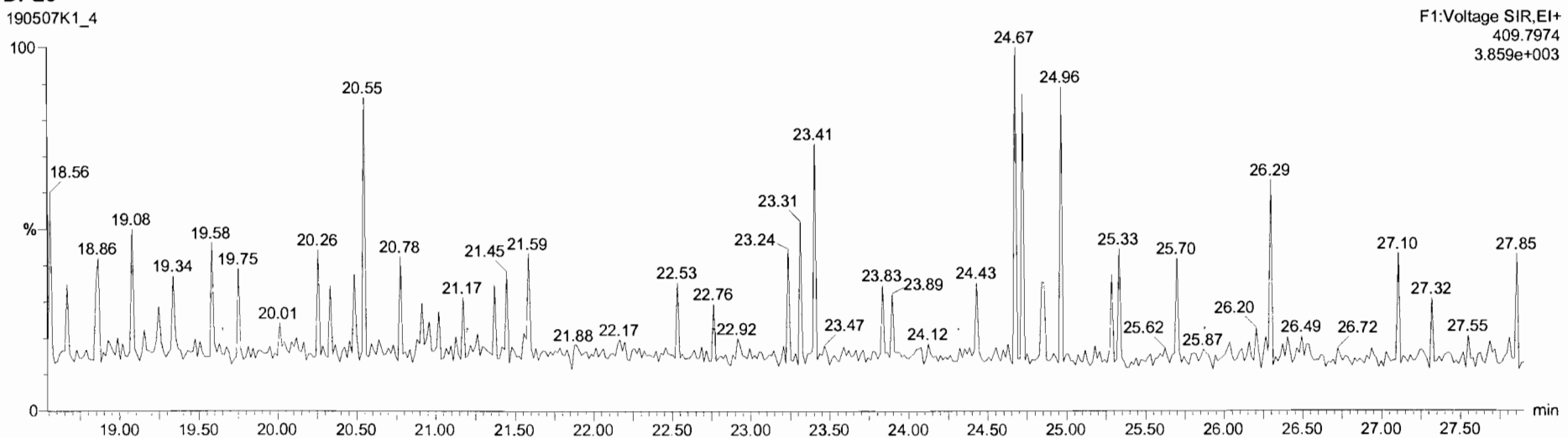


190507K1\_4



DPE6

190507K1\_4



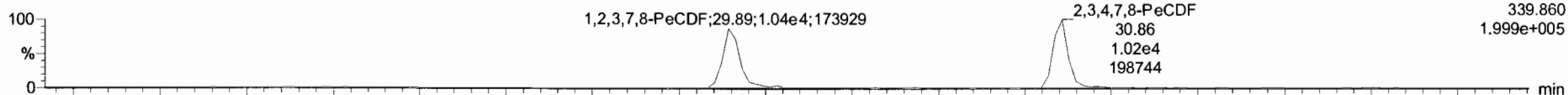
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

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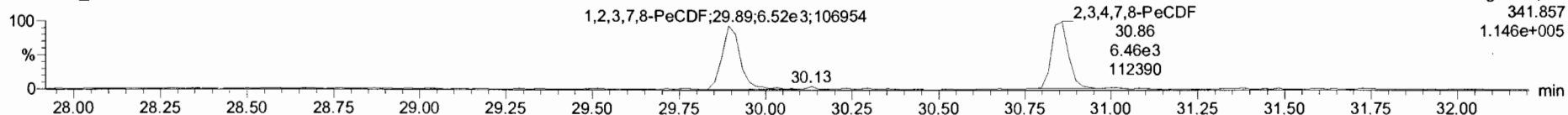
**1,2,3,7,8-PeCDF**

190507K1\_4



F2:Voltage SIR,EI+  
339.860  
1.999e+005

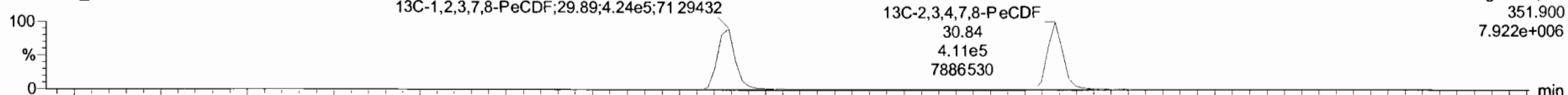
190507K1\_4



F2:Voltage SIR,EI+  
341.857  
1.146e+005

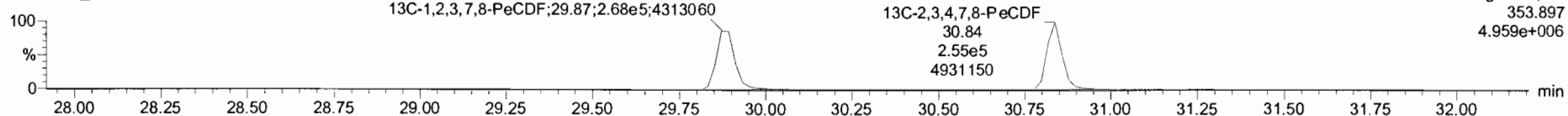
**13C-1,2,3,7,8-PeCDF**

190507K1\_4



F2:Voltage SIR,EI+  
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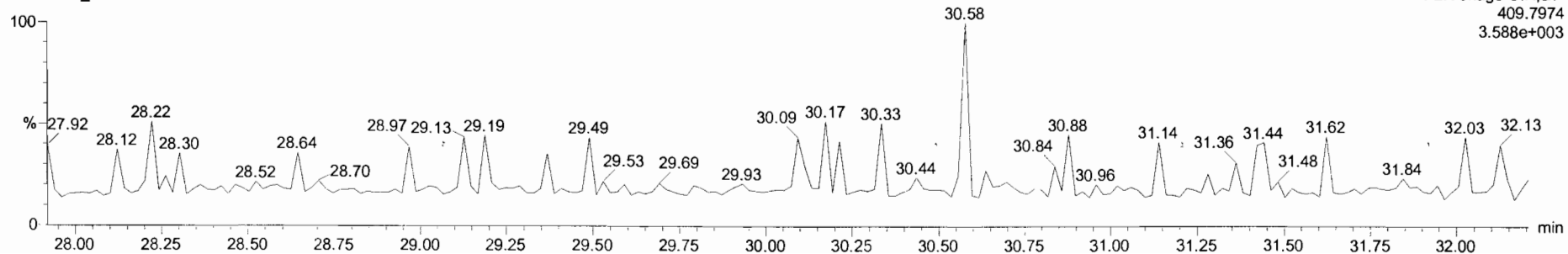
190507K1\_4



F2:Voltage SIR,EI+  
353.897  
4.959e+006

**DPE2**

190507K1\_4



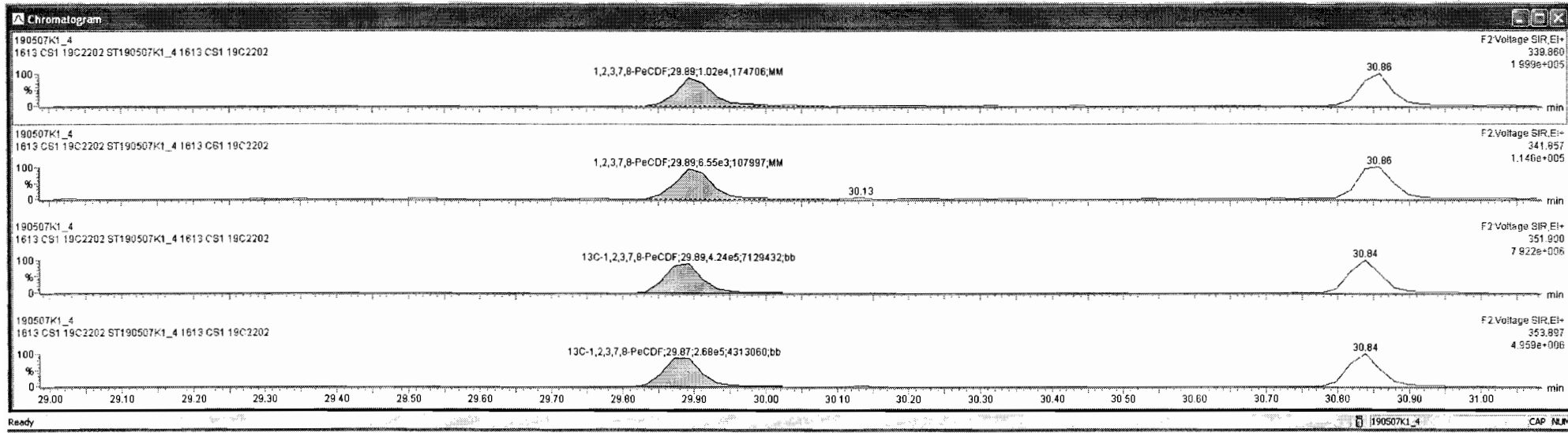
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409.7974  
3.588e+003

Targetlynx - 190507K1.CRV.qld

File Edit View Display Processing Window Help

190507K1\_4 - ST190507K1\_4 1613 CS1 19C2202 - 1613 CS1 19C2202

Name	Resp	RA	n/y	RRF	wi/wi	RT	RRT	Conc	%Rec	DL	EMCC
1 2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2 1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3 1,2,3,4,7,8-HxCDD	8.85e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0990	2.32
4 1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5 1,2,3,7,8,9-HxCDD	8.26e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6 1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7 OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8 2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9 1,2,3,7,8-PeCDF	1.87e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	98.3	0.0877	2.48
10 2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11 1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12 1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13 2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0548	2.43
14 1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15 1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16 1,2,3,4,7,8,9-HpCDF	8.36e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17 OCDF	1.58e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18 13C-2,3,7,8-TCDD	6.84e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19 13C-1,2,3,7,8-PeCDD	4.65e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20 13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.65	1.000	34.40	1.014	96.7	96.7	0.418	
21 13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.8	93.8	0.348	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.66	1.000	34.78	1.025	92.7	92.7	0.407	
23 13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	



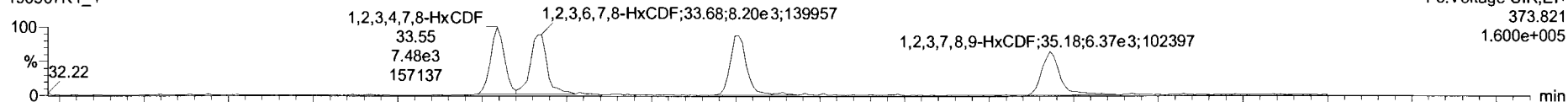
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

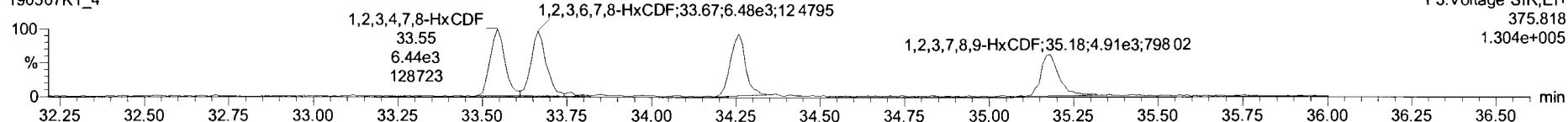
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**1,2,3,4,7,8-HxCDF**

190507K1\_4

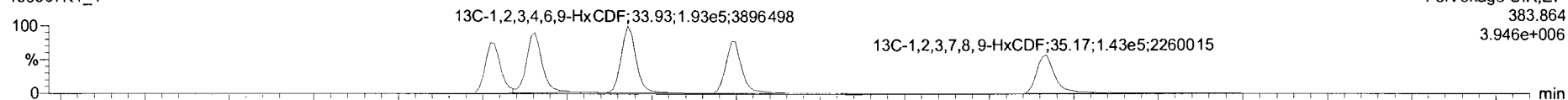


190507K1\_4

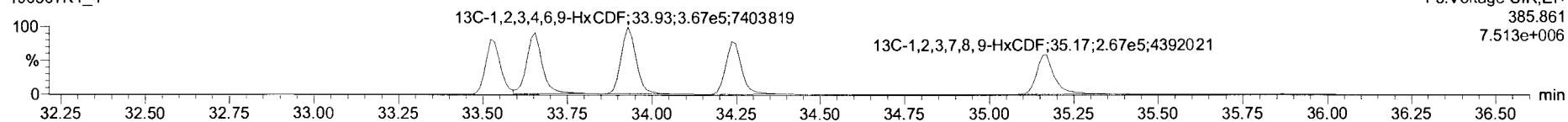


**13C-1,2,3,4,7,8-HxCDF**

190507K1\_4

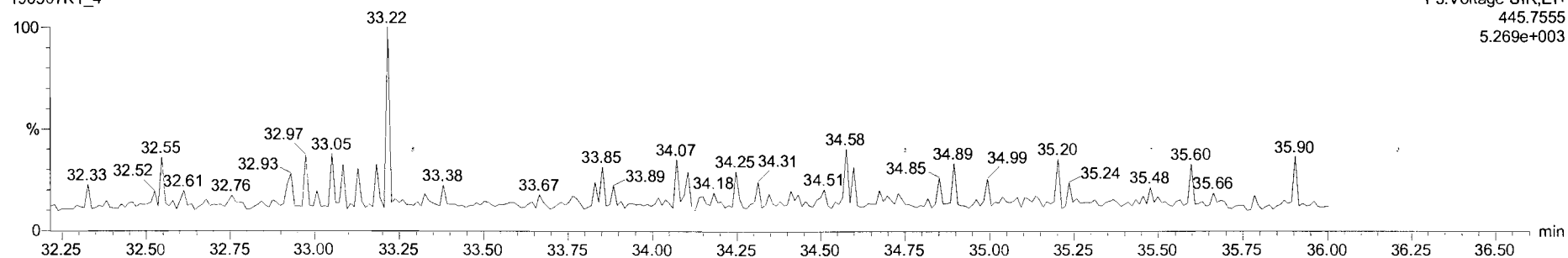


190507K1\_4



**DPE3**

190507K1\_4

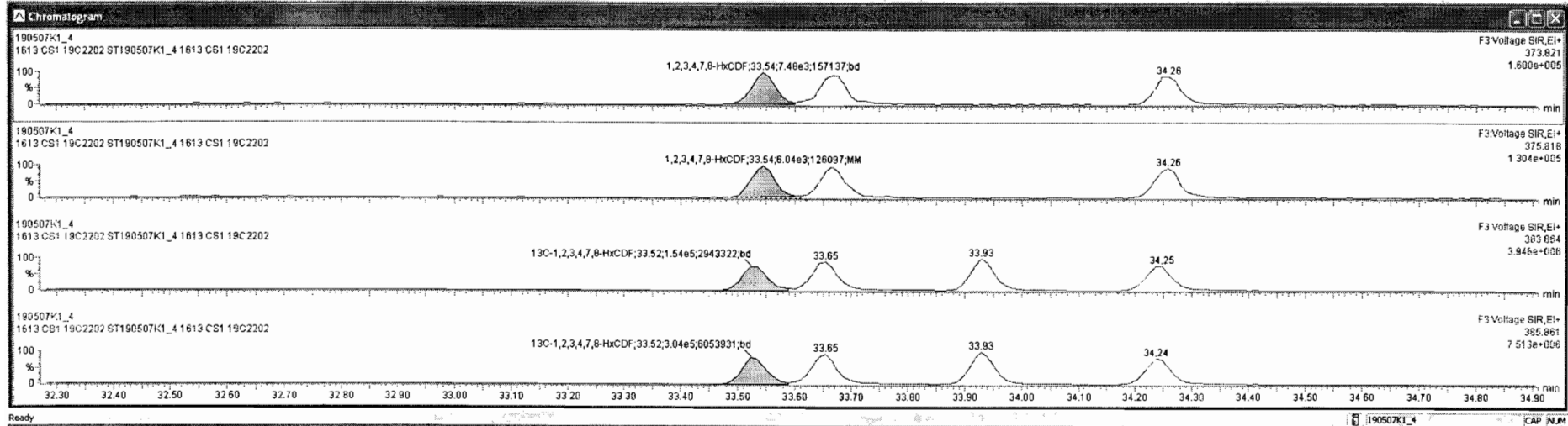


Target1.ynx - 190507K1\_CRV.qld

File Edit View Display Processing Window Help

190507K1\_4 - ST190507K1\_4 1613 CS1 19C2202 - 1613 CS1 19C2202

KL	Name	Resp	RA	Hy	RHF	WtVol	RT	RRT	Conc	%Rec	DL	EMPG
1	2,3,7,8-TCDD	315e3	0.80	NO	0.92	1.000	26.26	1.001	0.513	103	0.0603	0.514
2	1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3	1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0990	2.32
4	1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5	1,2,3,7,8-HxCDD	8.28e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6	1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7	OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8	2,3,7,8-TCDF	4.08e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9	1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10	1,2,3,4,7,8-HxCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11	1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12	1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13	1,2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14	1,2,3,7,8-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15	1,2,3,4,6,7,8-HxCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16	1,2,3,4,7,8-HpCDF	8.36e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17	OCDF	1.58e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18	13C-2,3,7,8-TCDD	6.64e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19	13C-1,2,3,7,8-PeCDD	4.65e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20	13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.65	1.000	34.40	1.014	96.7	96.7	0.418	
21	13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22	13C-1,2,3,7,8-HxCDD	3.44e5	1.26	NO	0.66	1.000	34.78	1.025	92.7	92.7	0.407	
23	13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	

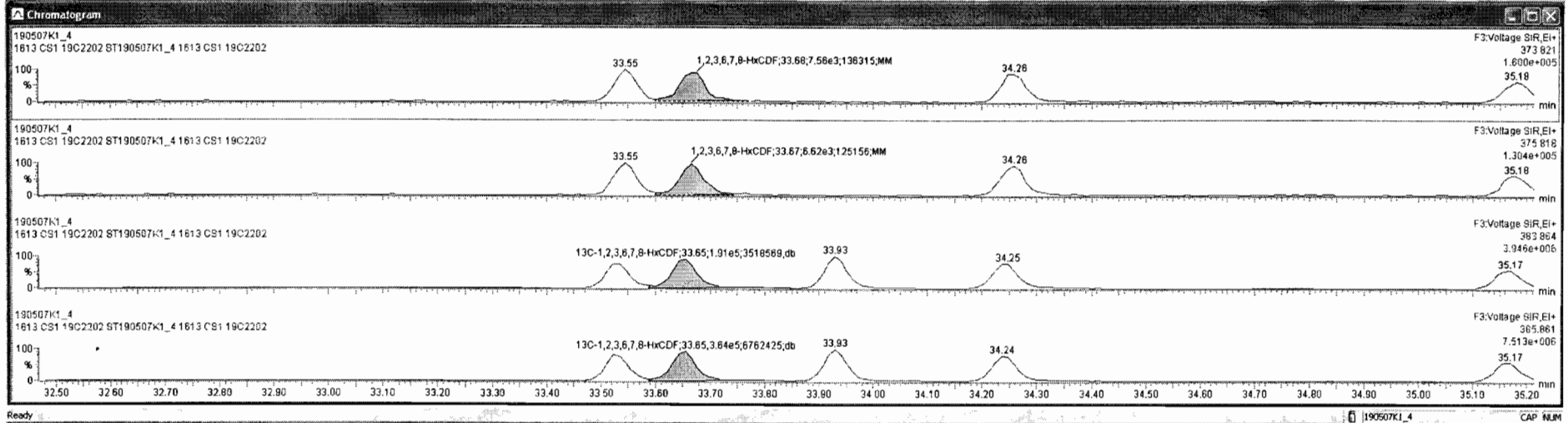


Target.ynx - 190507K1\_CRV.qld

File Edit View Display Processing Window Help

190507K1\_4 - ST190507K1\_4 1613 CS1 19C2202 - 1613 CS1 19C2202

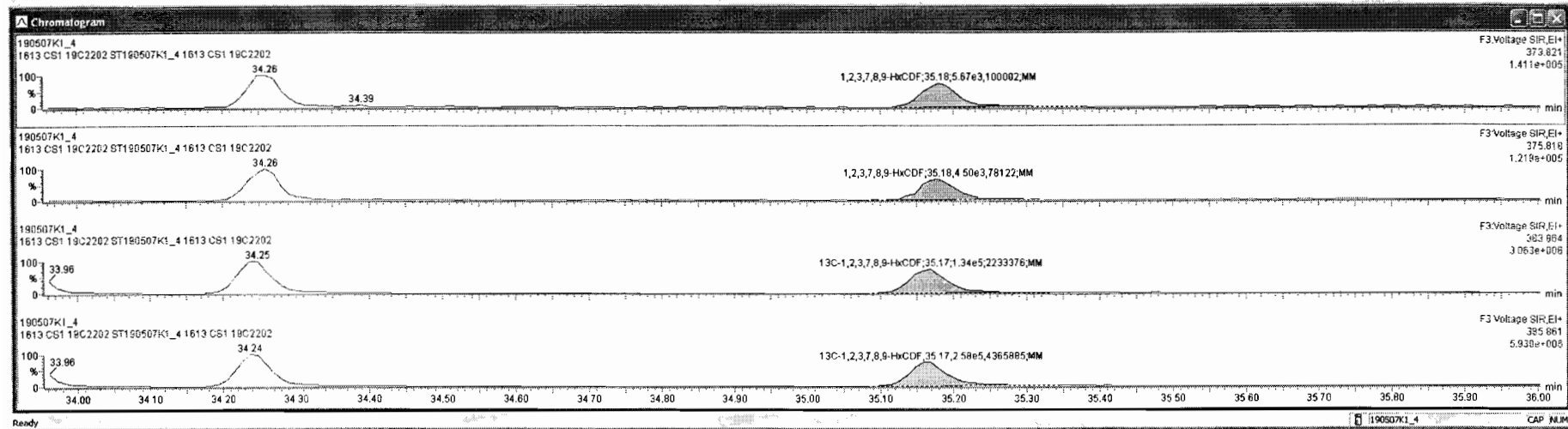
None	Resp	RA	INVT	RPF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC	
1	2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2	1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3	1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0990	2.32
4	1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5	1,2,3,7,8,9-HxCDD	8.28e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6	1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7	OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8	2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9	1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10	2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11	1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12	1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.03	1.000	33.68	1.001	2.34	93.4	0.0975	2.34
13	2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14	1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15	1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16	1,2,3,4,7,8,9-HxCDF	8.36e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17	OCDF	1.58e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18	13C-2,3,7,8-TCDD	6.84e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19	13C-1,2,3,7,8-PeCDD	4.85e5	0.84	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20	13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.85	1.000	34.40	1.014	96.7	96.7	0.418	
21	13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.66	1.000	34.78	1.025	92.7	92.7	0.407	
23	13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	36.30	1.129	89.5	89.5	0.511	



TargetLynx - 190507K1\_C07.gid  
 File Edit View Display Processing Window Help

190507K1\_4 # ST190507K1\_4 1613 CS1 19C2202 - 1613 CS1 19C2202

Peak	Name	Resp	RA	nV	RRF	WtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	28.38	1.001	0.513	100	0.0603	0.514
2	1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	100	0.0752	2.54
3	1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0990	2.32
4	1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5	1,2,3,7,8,9-HxCDD	8.28e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6	1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	100	0.102	2.55
7	OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	98.5	0.150	4.97
8	2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9	1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0877	2.48
10	2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.85	1.001	2.50	100	0.0598	2.50
11	1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12	1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13	2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.16	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14	1,2,3,7,8,9-HxCDF	1.02e4	1.25	NO	1.07	1.000	35.19	1.000	2.42	96.8	0.139	2.42
15	1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.8	0.119	2.44
16	1,2,3,4,7,8,9-HpCDF	8.36e3	1.04	NO	1.26	1.000	38.85	1.000	2.28	91.4	0.141	2.28
17	OCDF	1.58e4	0.88	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18	13C-2,3,7,8-TCDD	6.84e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19	13C-1,2,3,7,8-PeCDD	4.65e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20	13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.85	1.000	34.40	1.014	96.7	96.7	0.418	
21	13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.86	1.000	34.78	1.025	92.7	92.7	0.407	
23	13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	



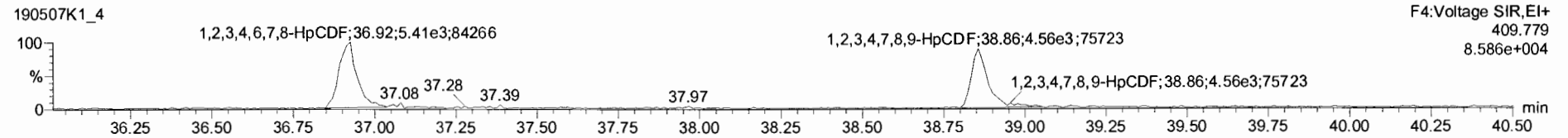
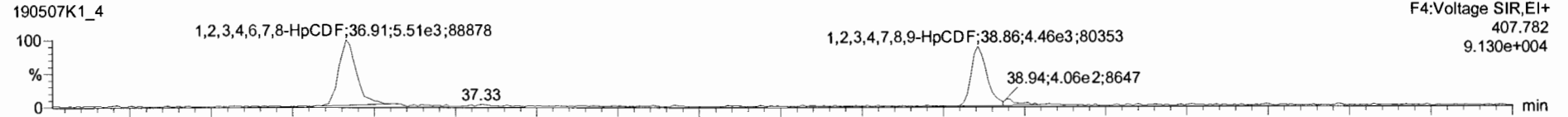
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

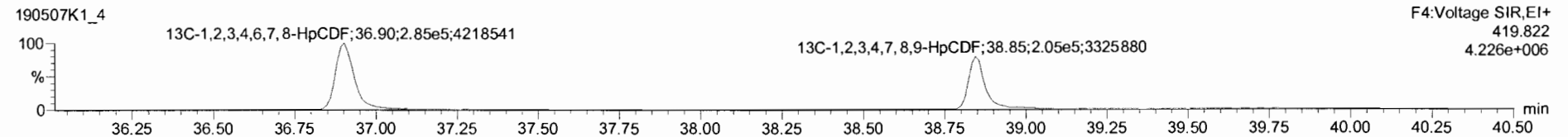
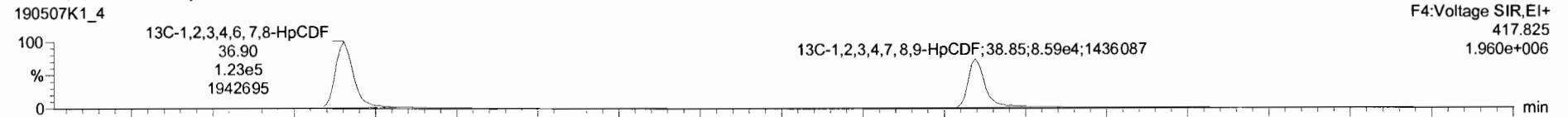
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1\_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202

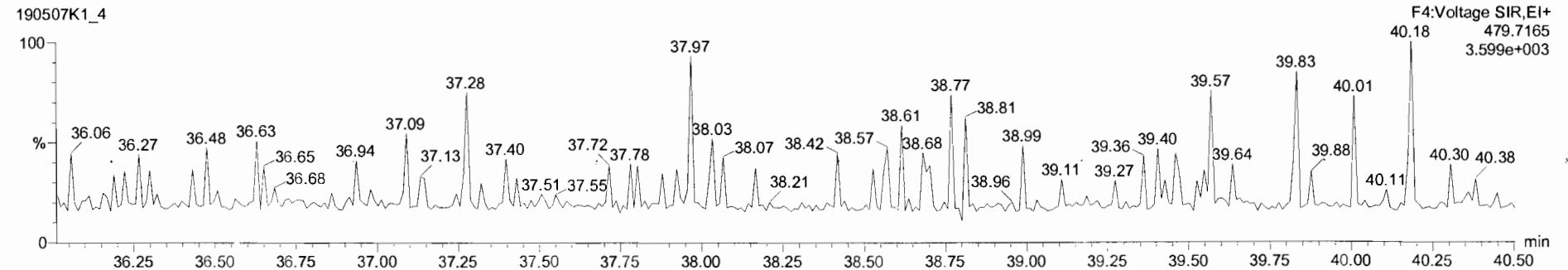
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**13C-1,2,3,4,6,7,8-HpCDF**



**DPE4**

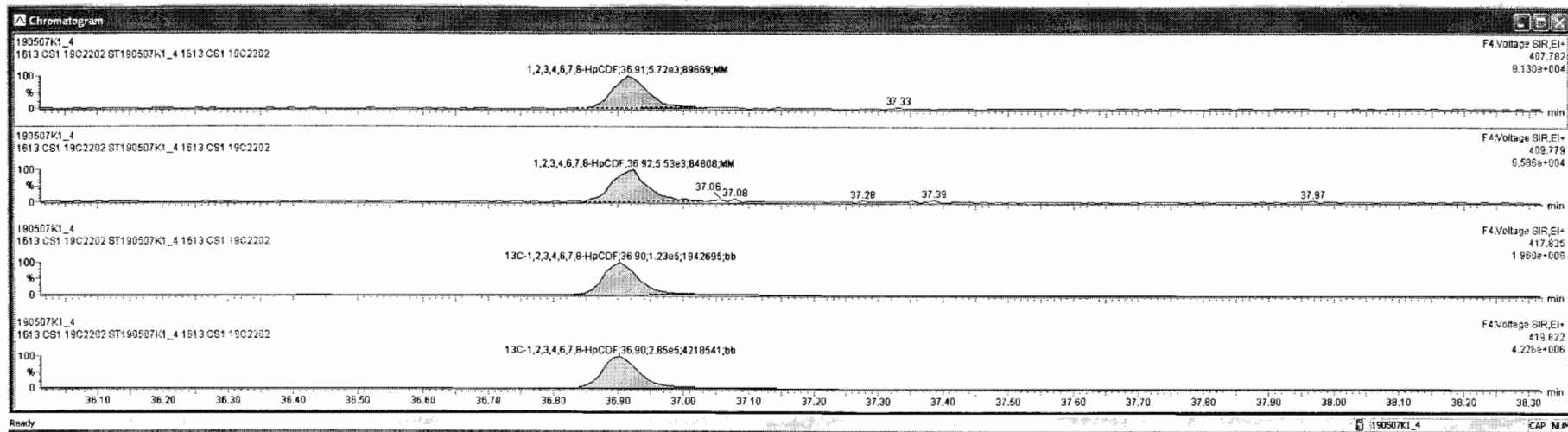




Target: ynx - 190507K1\_CRV.gld  
 File Edit View Display Processing Window Help

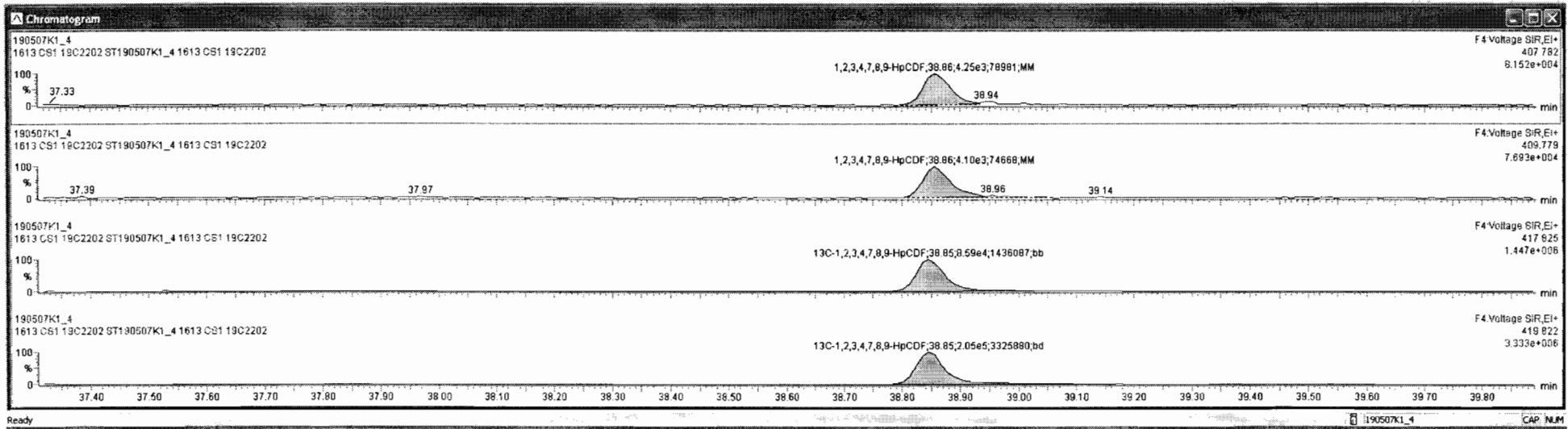
190507K1\_4 - ST190507K1\_4\_1613 CS1 19C2202 - 1613 CS1 19C2202

Name	Resp	RA	NY	RRR	WAVG	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2 1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3 1,2,3,4,7,8-HxCDD	8.55e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0890	2.32
4 1,2,3,6,7,8-HxCDD	8.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5 1,2,3,7,8,9-HxCDD	8.26e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6 1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7 OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8 2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	86.4	0.0452	0.482
9 1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10 2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11 1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.36	95.1	0.0697	2.36
12 1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0675	2.34
13 2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14 1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15 1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	87.6	0.119	2.44
16 1,2,3,4,7,8,9-HpCDF	8.36e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17 OCDF	1.59e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18 13C-2,3,7,8-TCDD	6.54e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19 13C-1,2,3,7,8-PeCDD	4.85e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20 13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.65	1.000	34.40	1.014	96.7	96.7	0.418	
21 13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.66	1.000	34.78	1.025	92.7	92.7	0.407	
23 13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	



190507K1\_4 - ST190507K1\_4 1613 CS1 19C2202 - 1613 CS1 19C2202

Name	Resp	RA	nY	RRF	wtArd	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2 1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3 1,2,3,4,7,8-HxCDD	6.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0690	2.32
4 1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5 1,2,3,7,8,9-HxCDD	8.29e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6 1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7 OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8 2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9 1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10 2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11 1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12 1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13 2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14 1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15 1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16 1,2,3,4,7,8,9-HpCDF	8.39e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17 OCDF	1.59e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18 13C-2,3,7,8-TCDD	6.64e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19 13C-1,2,3,7,8-PeCDD	4.65e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.391	
20 13C-1,2,3,4,7,8-HxCDD	3.48e5	1.31	NO	0.65	1.000	34.40	1.014	96.7	96.7	0.418	
21 13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.28	NO	0.66	1.000	34.78	1.025	92.7	92.7	0.407	
23 13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	

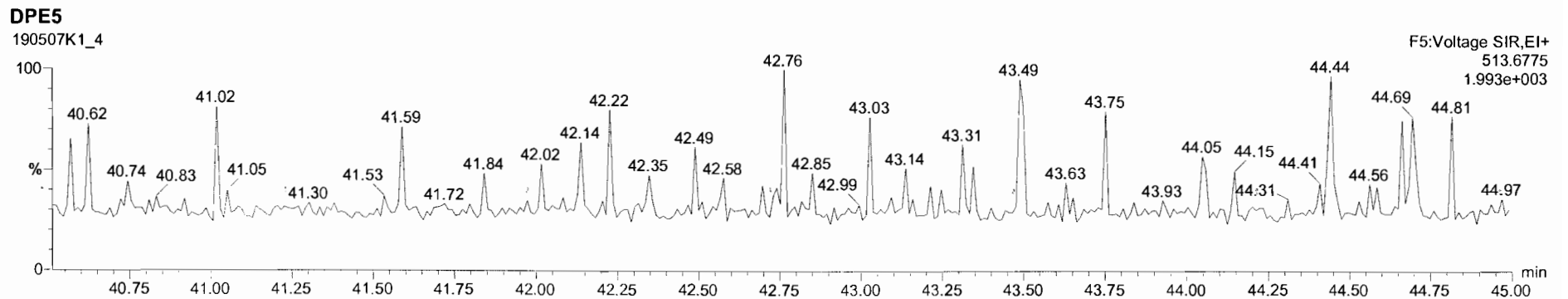
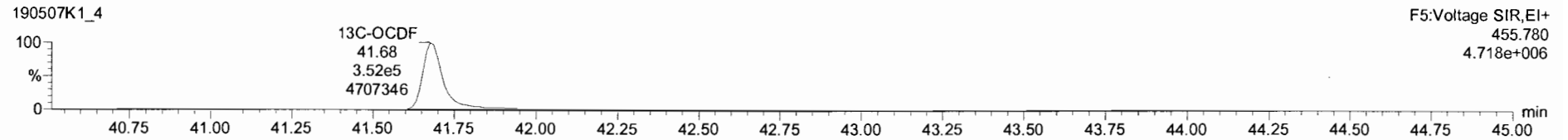
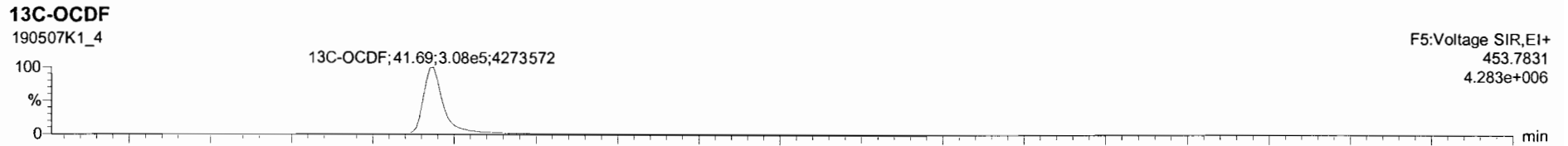
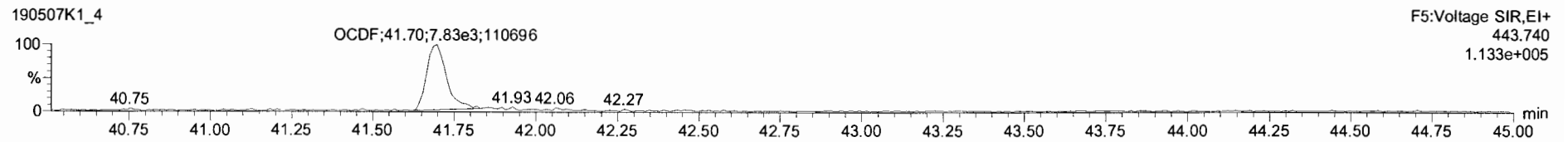
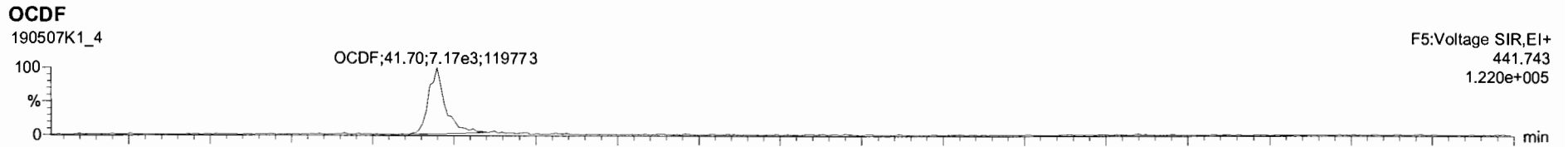


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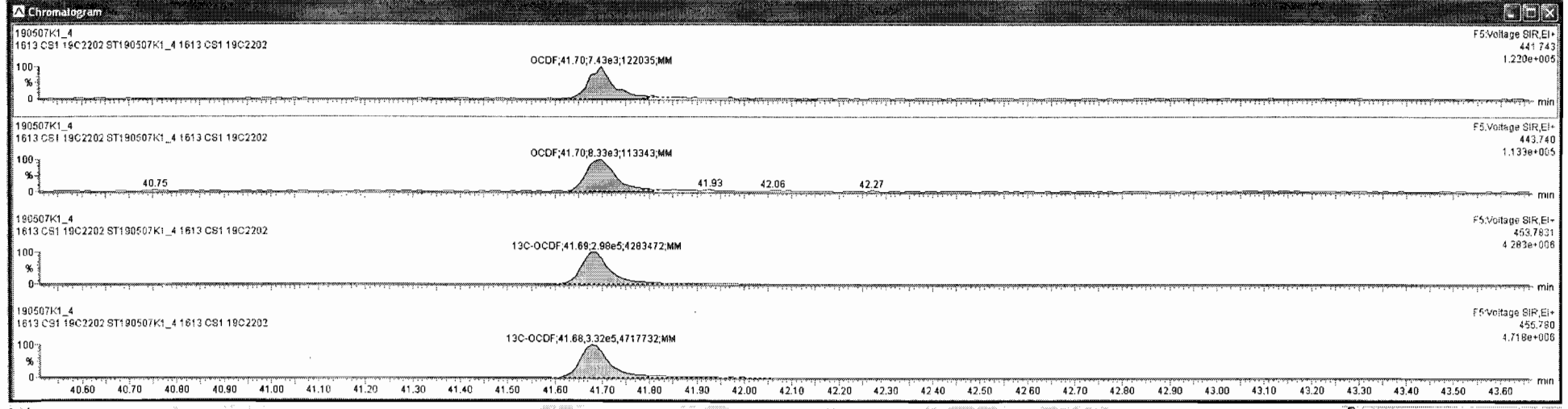
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Name: 190507K1\_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1\_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202



190507K1\_4 - ST190507K1\_4 1613 CS1 19C2202 - 1613 CS1 19C2202

1	Name	Resp	RA	nNy	RRF	WtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2	1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3	1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0990	2.32
4	1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5	1,2,3,7,8,9-HxCDD	8.28e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6	1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7	OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8	2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9	1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	98.3	0.0677	2.48
10	2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0596	2.50
11	1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.36	95.1	0.0897	2.36
12	1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13	2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14	1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15	1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16	1,2,3,4,7,8,9-HpCDF	8.36e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17	OCDF	1.56e4	0.88	NO	1.10	1.000	41.70	1.000	4.54	90.6	0.195	4.54
18	13C-2,3,7,8-TCDD	6.64e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19	13C-1,2,3,7,8-PeCDD	4.65e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20	13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.65	1.000	34.40	1.014	96.7	96.7	0.418	
21	13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.66	1.000	34.79	1.025	92.7	92.7	0.407	
23	13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	



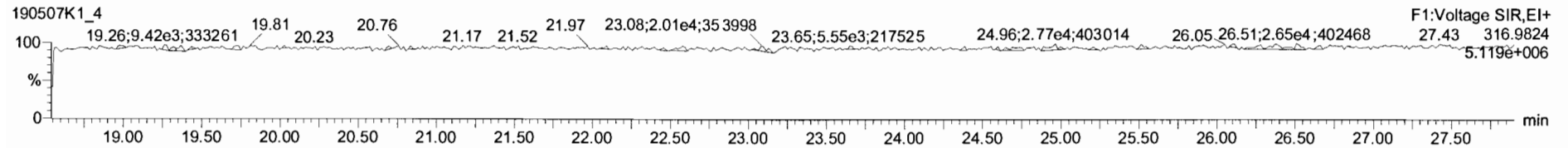
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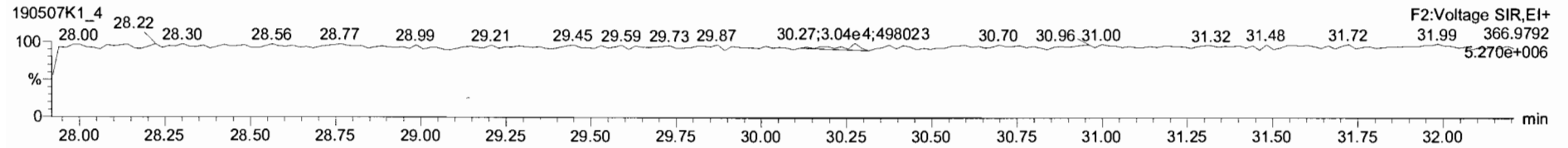
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Name: 190507K1\_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1\_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202

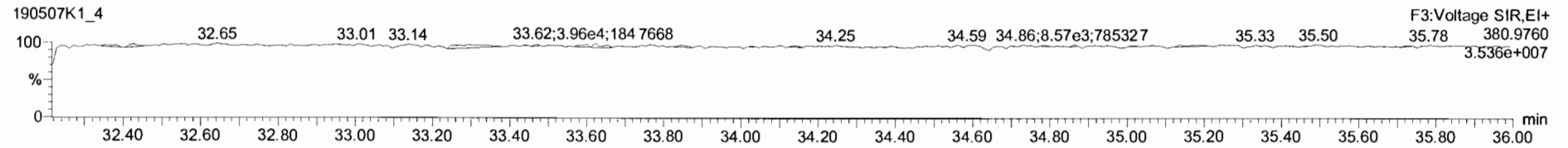
**PFK1**



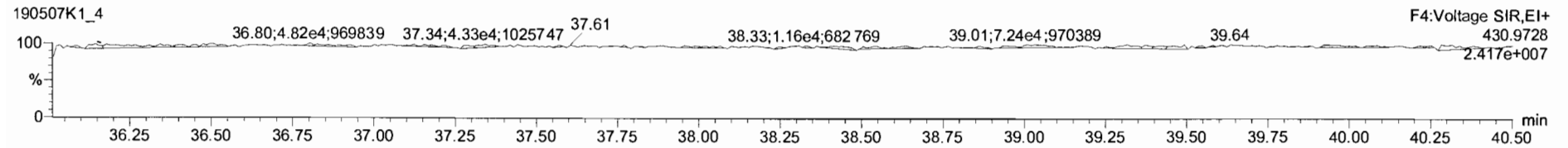
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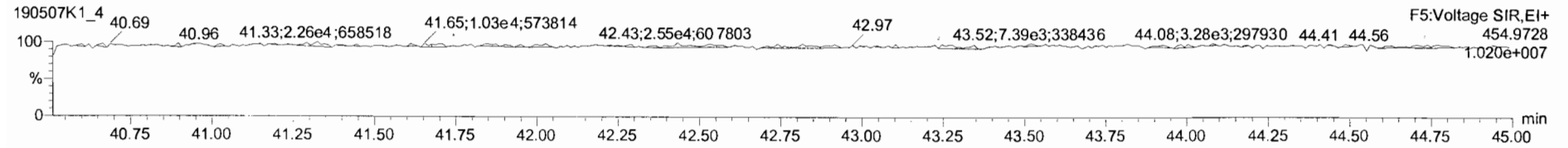
**PFK3**



**PFK4**



**PFK5**



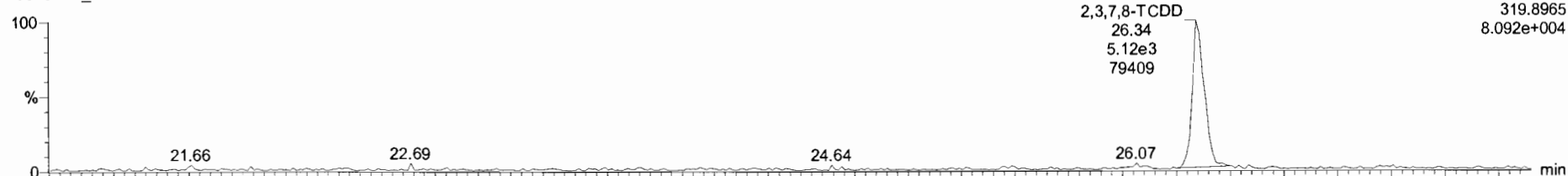
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1\_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203

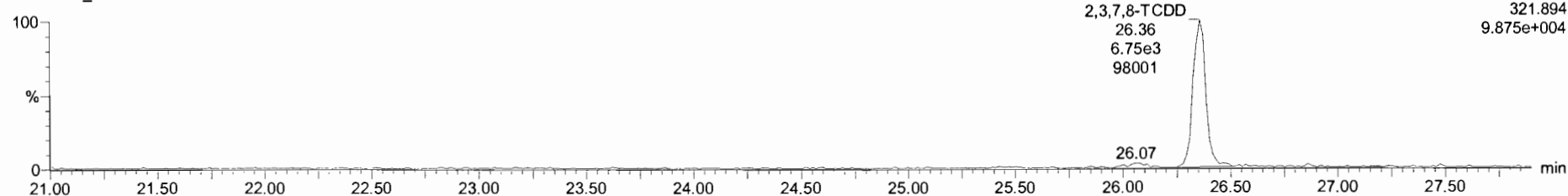
**2,3,7,8-TCDD**

190507K1\_5



F1:Voltage SIR,EI+  
319.8965  
8.092e+004

190507K1\_5



F1:Voltage SIR,EI+  
321.894  
9.875e+004

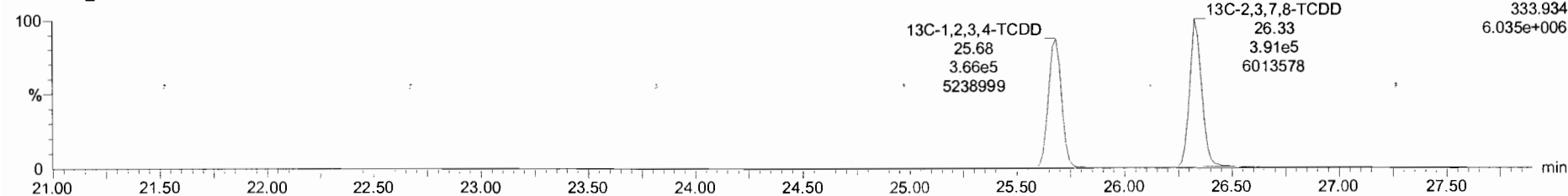
**13C-2,3,7,8-TCDD**

190507K1\_5



F1:Voltage SIR,EI+  
331.9368  
4.700e+006

190507K1\_5



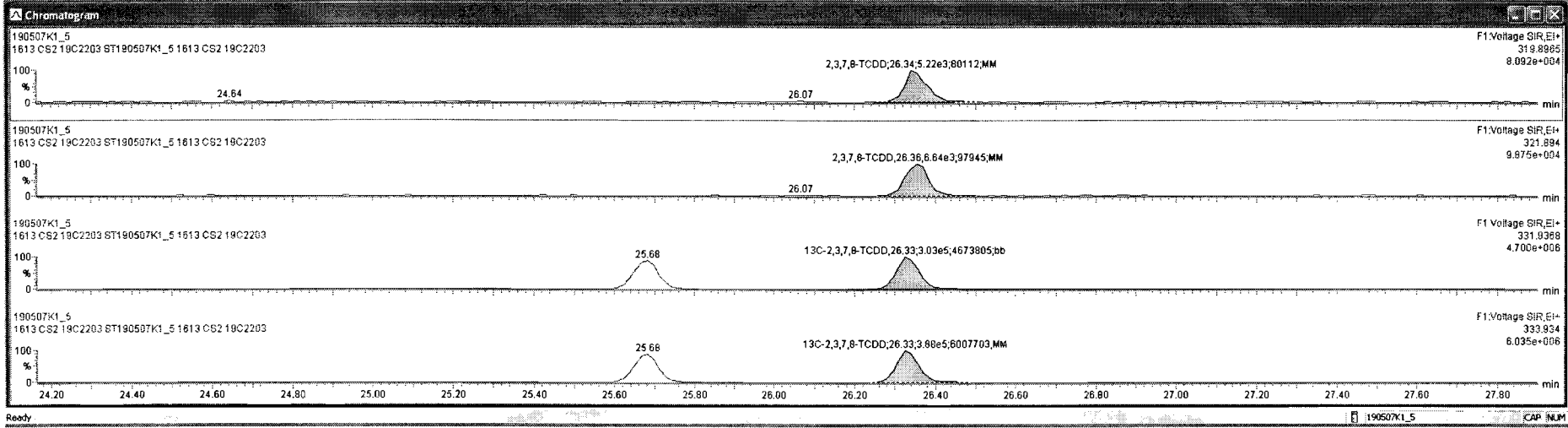
F1:Voltage SIR,EI+  
333.934  
6.035e+006

Targetlynx 190507K1.CRY.qld

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190507K1\_5 - ST190507K1\_5 1613 CS2 19C2203 - 1613 CS2 19C2203

Name	Resp	RA	RY	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.00	26.34	1.001	1.85	92.7	0.0542	1.85
2 1,2,3,7,8-PeCDD	4.19e4	0.66	NO	0.90	1.00	31.14	1.001	9.78	97.9	0.0751	9.78
3 1,2,3,4,7,8-HxCDD	3.88e4	1.24	NO	1.07	1.00	34.41	1.000	9.82	98.2	0.101	9.82
4 1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.00	34.52	1.000	9.99	99.9	0.101	9.99
5 1,2,3,7,8,9-HxCDD	3.85e4	1.22	NO	0.97	1.00	34.80	1.000	9.56	95.6	0.115	9.56
6 1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.00	38.31	1.000	9.56	95.6	0.144	9.56
7 OCDD	4.71e4	0.89	NO	0.97	1.00	41.47	1.000	19.2	95.8	0.204	19.2
8 2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.00	25.50	1.001	1.97	98.3	0.0457	1.97
9 1,2,3,7,8-PeCDF	6.93e4	1.85	NO	0.97	1.00	29.89	1.000	9.88	98.8	0.0670	9.88
10 2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.00	30.86	1.001	9.42	94.2	0.0598	9.42
11 1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.00	33.54	1.001	9.96	99.6	0.127	9.96
12 1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.09	1.00	33.67	1.000	9.99	99.9	0.133	9.99
13 2,3,4,6,7,8-HxCDF	5.76e4	1.22	NO	1.18	1.00	34.26	1.001	9.67	96.7	0.136	9.66
14 1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.00	35.18	1.000	10.1	101	0.218	10.1
15 1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.00	36.91	1.000	9.80	98.0	0.161	9.80
16 1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.00	38.86	1.000	9.02	90.2	0.189	9.02
17 OCDF	6.07e4	0.93	NO	1.10	1.00	41.69	1.000	17.2	96.1	0.218	17.2
18 13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.00	26.33	1.025	99.9	99.9	0.195	
19 13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.00	31.12	1.212	96.5	96.5	0.310	
20 13C-1,2,3,4,7,8-HxCDD	3.69e5	1.32	NO	0.85	1.00	34.40	1.014	99.7	99.7	0.476	
21 13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.00	34.51	1.017	96.7	96.7	0.396	
22 13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.88	1.00	34.78	1.025	103	103	0.484	
23 13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.00	38.30	1.129	98.2	98.2	0.458	



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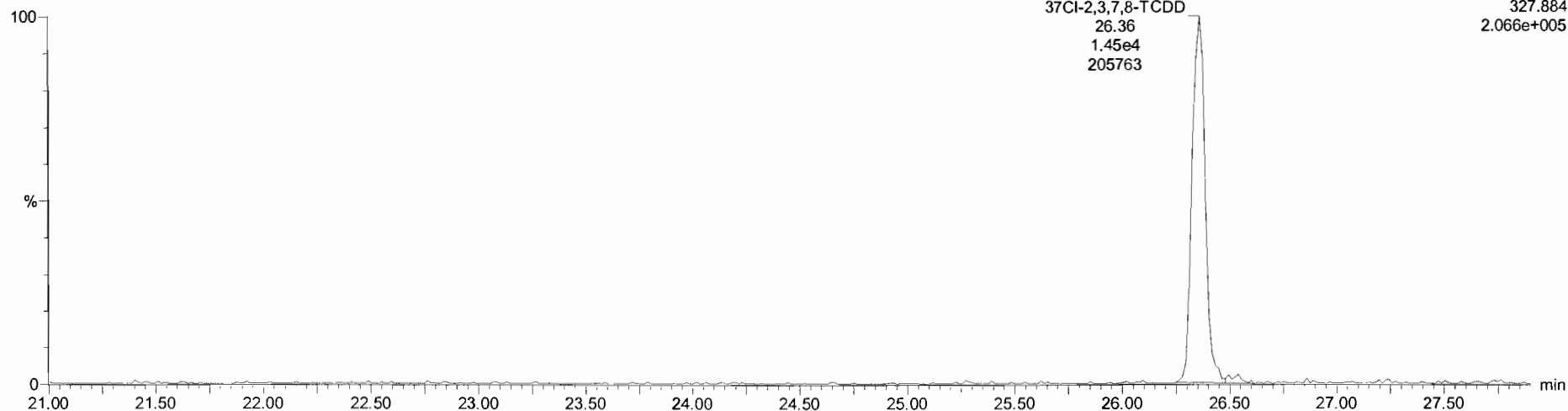
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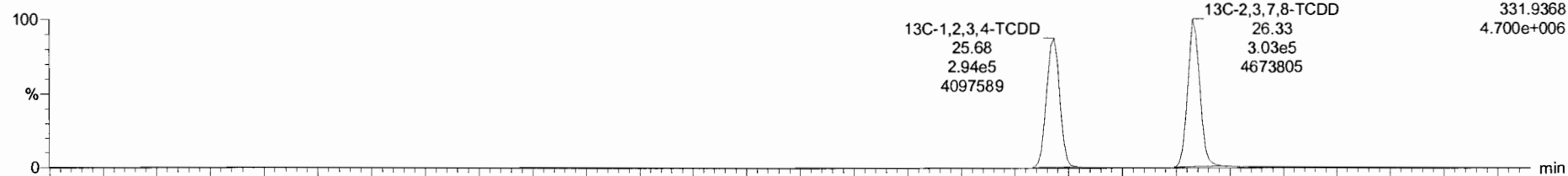
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190507K1\_5

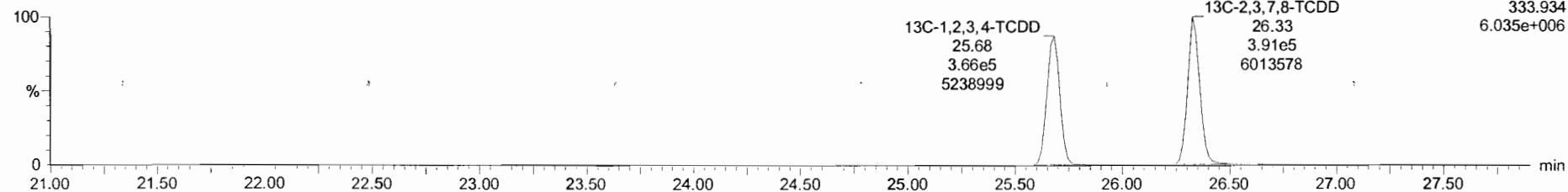


**13C-1,2,3,4-TCDD**

190507K1\_5



190507K1\_5





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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

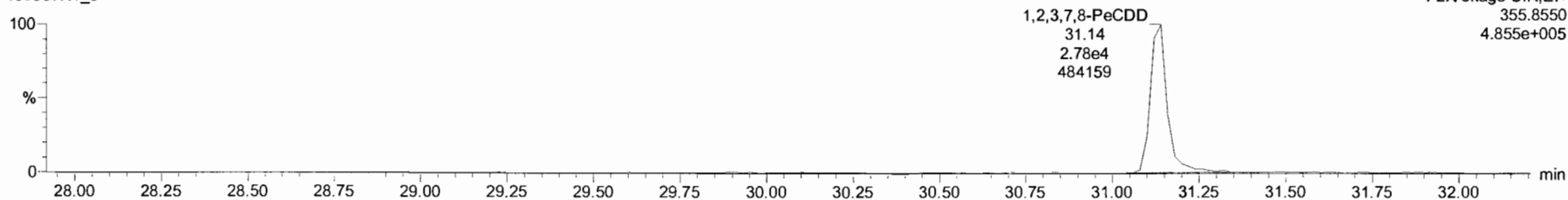
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**1,2,3,7,8-PeCDD**

190507K1\_5

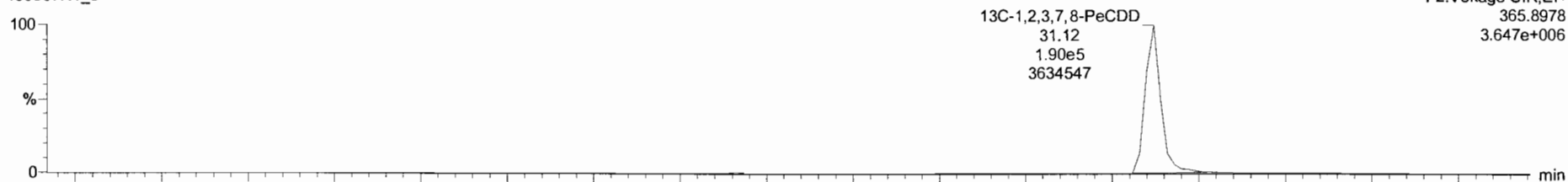


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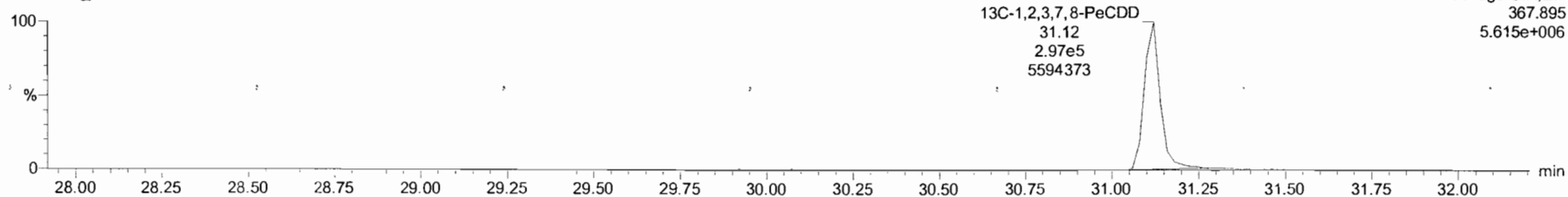


**13C-1,2,3,7,8-PeCDD**

190507K1\_5



190507K1\_5

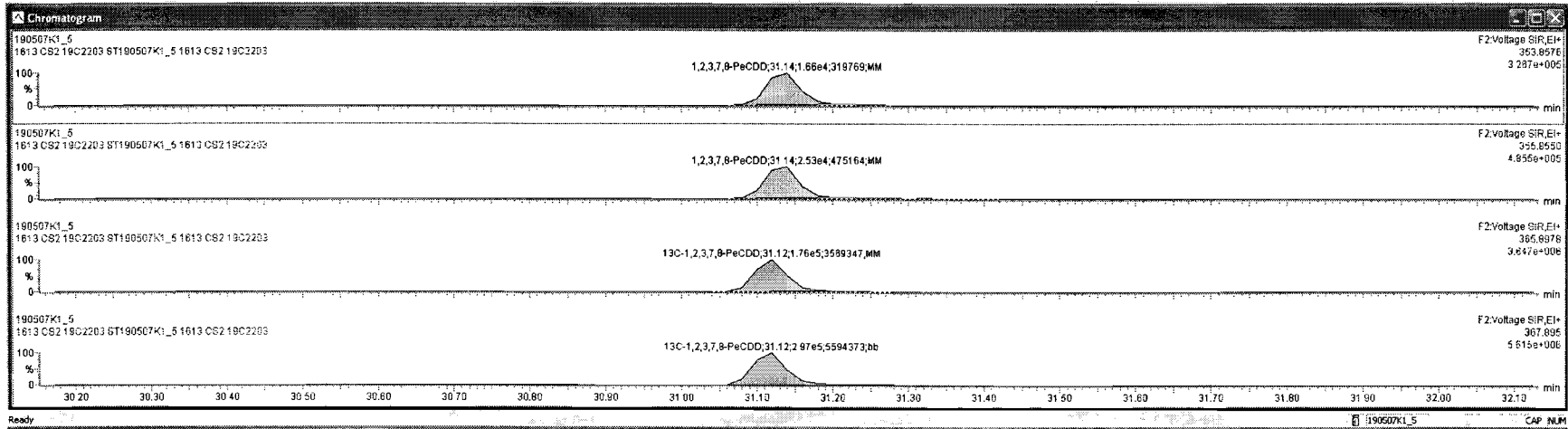


Target1.yqx - 190507K1-CRV.qld

File Edit View Display Processing Window Help

190507K1\_5-ST190507K1\_5 1613 CS2 19C2203 - 1613 CS2 19C2203

Peak	Name	Resp	RA	nV	RPF	wfvol	RT	RRT	Conc.	%Rec	DL	EMPC
1	1,2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0542	1.85
2	1,2,3,7,8-PeCDD	4.16e4	0.66	NO	0.96	1.000	31.34	1.001	9.79	97.9	0.0251	0.78
3	1,2,3,4,7,8-HxCDD	3.88e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	96.2	0.101	9.82
4	1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.101	9.99
5	1,2,3,7,8,9-HxCDD	3.65e4	1.22	NO	0.97	1.000	34.80	1.000	9.56	95.6	0.115	9.56
6	1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	38.31	1.000	9.56	95.6	0.144	9.56
7	OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.6	0.204	19.2
8	2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	99.3	0.0457	1.97
9	1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	29.89	1.000	9.89	99.6	0.0670	9.89
10	2,3,4,7,8-PeCDF	6.62e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0559	9.42
11	1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.127	9.96
12	1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.09	1.000	33.67	1.003	9.99	99.9	0.133	9.99
13	2,3,4,6,7,8-HxCDF	5.78e4	1.22	NO	1.18	1.000	34.26	1.001	9.67	96.7	0.136	9.66
14	1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.219	10.1
15	1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.181	9.80
16	1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.86	1.000	9.92	99.2	0.169	9.92
17	OCDF	6.07e4	0.93	NO	1.10	1.000	41.69	1.002	17.2	96.1	0.218	17.2
18	13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.195	
19	13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.210	
20	13C-1,2,3,4,7,8-HxCDD	3.69e5	1.32	NO	0.65	1.000	34.40	1.014	99.7	99.7	0.476	
21	13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.396	
22	13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.464	
23	13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.129	98.2	98.2	0.456	



Dataset: Untitled

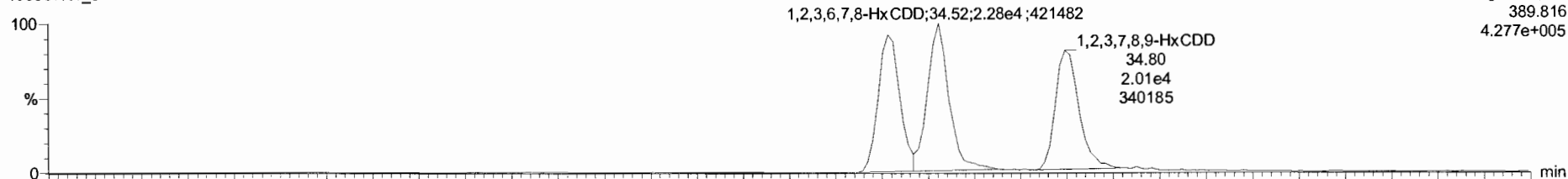
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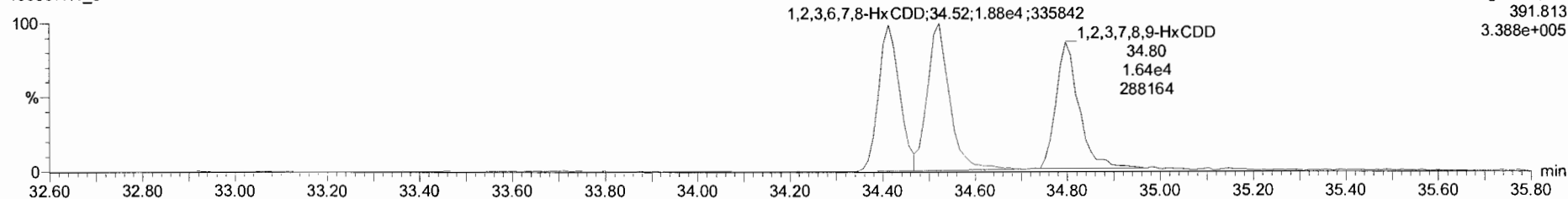
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**1,2,3,4,7,8-HxCDD**

190507K1\_5

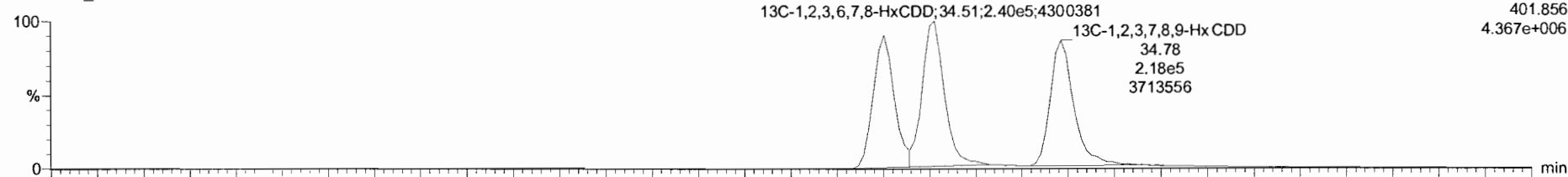


190507K1\_5

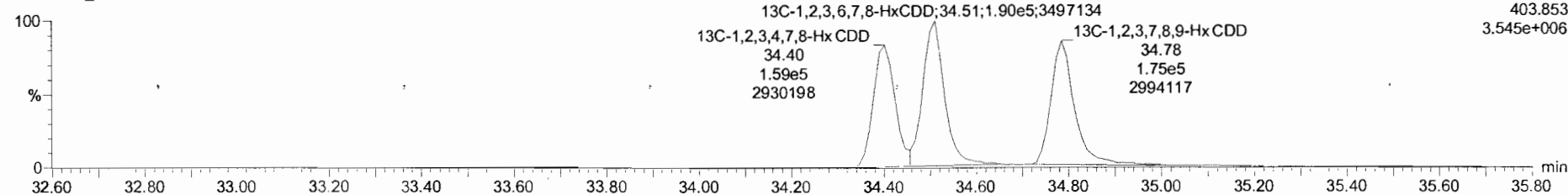


**13C-1,2,3,4,7,8-HxCDD**

190507K1\_5



190507K1\_5

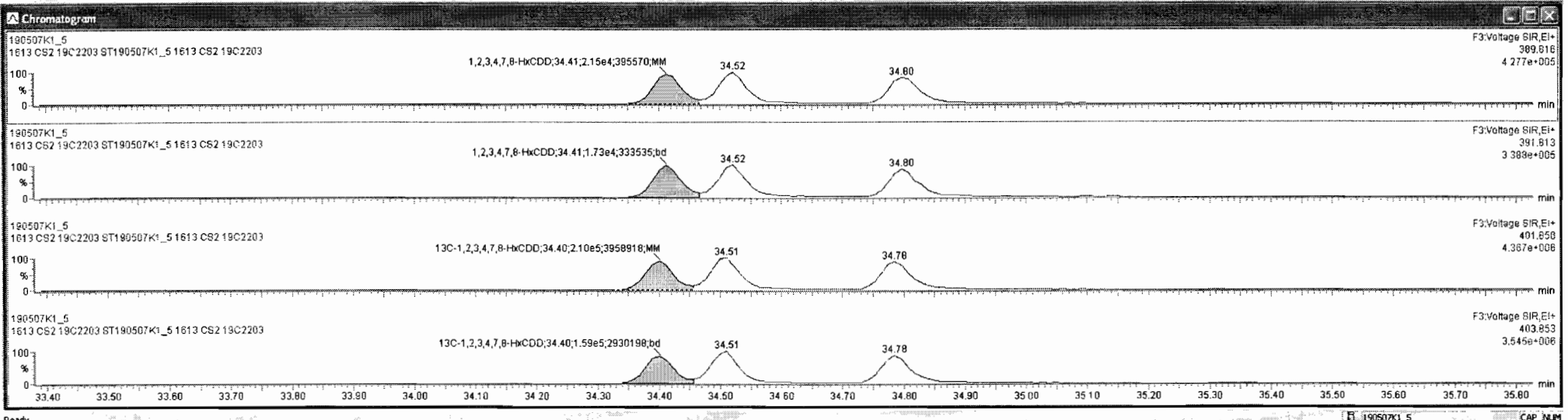


Target1.ymx - 190507K1\_CRV.qld

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190507K1\_5 - ST190507K1\_5 1613 CS2 19C2203 - 1613 CS2 19C2203

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC	
1	2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0542	1.85
2	1,2,3,7,8-PeCDD	4.19e4	0.66	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0751	9.78
3	1,2,3,4,7,8-HxCDD	3.88e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	98.2	0.101	9.82
4	1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.101	9.99
5	1,2,3,7,8,9-HxCDD	3.65e4	1.22	NO	0.97	1.000	34.80	1.000	9.56	95.6	0.115	9.56
6	1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	38.31	1.000	9.56	95.6	0.144	9.56
7	OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.8	0.204	19.2
8	2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0457	1.97
9	1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	29.89	1.000	9.88	98.8	0.0670	9.88
10	2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.000	30.85	1.001	9.42	94.2	0.0558	9.42
11	1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.98	99.6	0.127	9.98
12	1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.09	1.000	33.67	1.000	9.99	99.9	0.133	9.99
13	2,3,4,6,7,8-HxCDF	5.76e4	1.22	NO	1.18	1.000	34.26	1.001	9.67	96.7	0.136	9.66
14	1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.218	10.1
15	1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.161	9.80
16	1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.86	1.000	9.02	90.2	0.169	9.02
17	OCDF	6.07e4	0.93	NO	1.10	1.000	41.69	1.000	17.2	96.1	0.218	17.2
18	13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.195	
19	13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.310	
20	13C-1,2,3,4,7,8-HxCDD	3.69e5	1.32	NO	0.85	1.000	34.40	1.014	99.7	99.7	0.476	
21	13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.396	
22	13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.86	1.000	34.78	1.025	103	103	0.464	
23	13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.129	98.2	98.2	0.456	



Dataset: Untitled

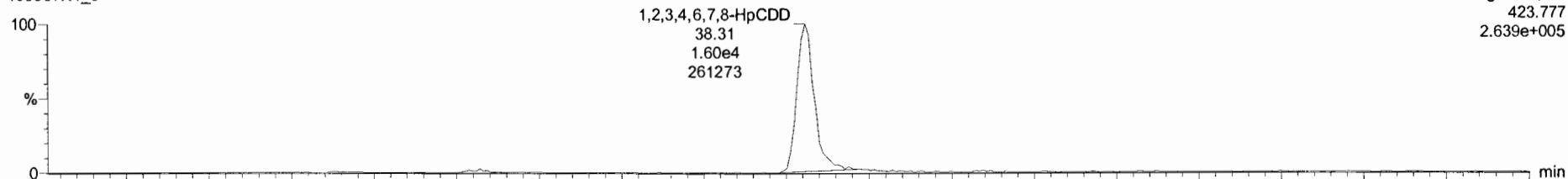
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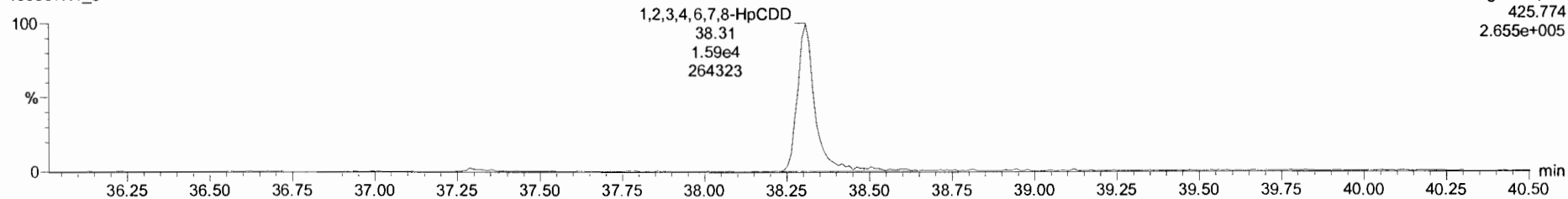
Name: 190507K1\_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1\_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203

**1,2,3,4,6,7,8-HpCDD**

190507K1\_5

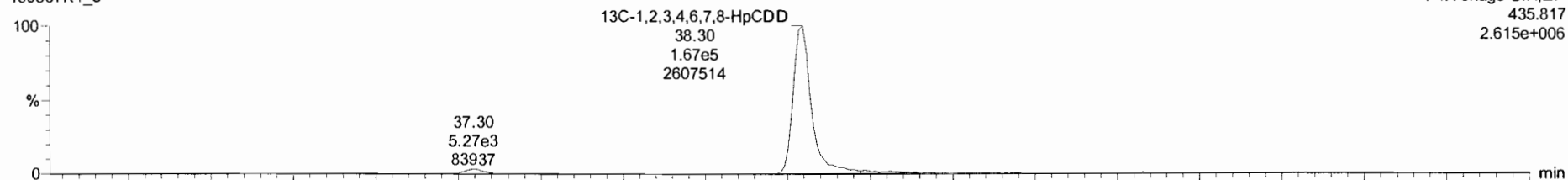


190507K1\_5

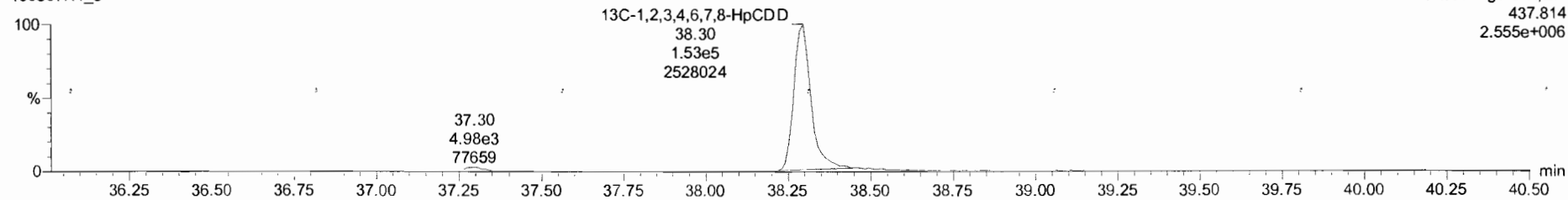


**13C-1,2,3,4,6,7,8-HpCDD**

190507K1\_5



190507K1\_5

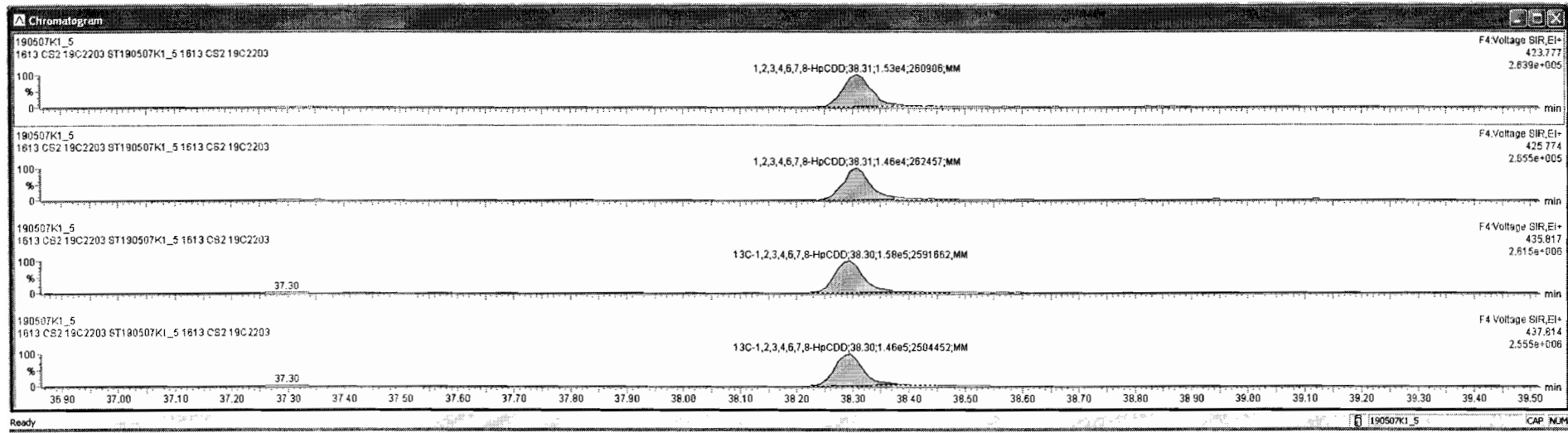


TargetLynx - 190507K1.CRV.gld

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190507K1\_5 - ST190507K1\_5 1613 CS2 19C2203 - 1613 CS2 19C2203

#	Name	Resp	PA	nV	RRF	wtVol	RT	RR1	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.19e4	0.78	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0542	1.85
2	1,2,3,7,8-PeCDD	4.19e4	0.66	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0751	9.78
3	1,2,3,4,7,8-HxCDD	3.88e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	98.2	0.101	9.82
4	1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.101	9.99
5	1,2,3,7,8,9-HxCDD	3.65e4	1.22	NO	0.97	1.000	34.60	1.000	9.56	95.6	0.115	9.56
6	1,2,3,4,6,7,8-HpCDD	2.28e4	1.05	NO	1.03	1.000	38.31	1.000	9.56	95.6	0.144	9.56
7	OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.9	0.204	19.2
8	2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0457	1.97
9	1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	29.89	1.000	9.88	98.8	0.0670	9.88
10	2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0559	9.42
11	1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.127	9.96
12	1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.09	1.000	33.67	1.000	9.99	99.9	0.133	9.99
13	2,3,4,6,7,8-HxCDF	5.76e4	1.22	NO	1.18	1.000	34.26	1.001	9.67	96.7	0.136	9.66
14	1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.218	10.1
15	1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.21	1.000	9.80	98.0	0.161	9.80
16	1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.86	1.000	9.02	90.2	0.169	9.02
17	OCDF	6.07e4	0.93	NO	1.10	1.000	41.69	1.000	17.2	86.1	0.218	17.2
18	13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.195	
19	13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.310	
20	13C-1,2,3,4,7,8-HxCDD	3.89e5	1.32	NO	0.85	1.000	34.40	1.014	99.7	99.7	0.476	
21	13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.396	
22	13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.464	
23	13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.129	98.2	98.2	0.456	



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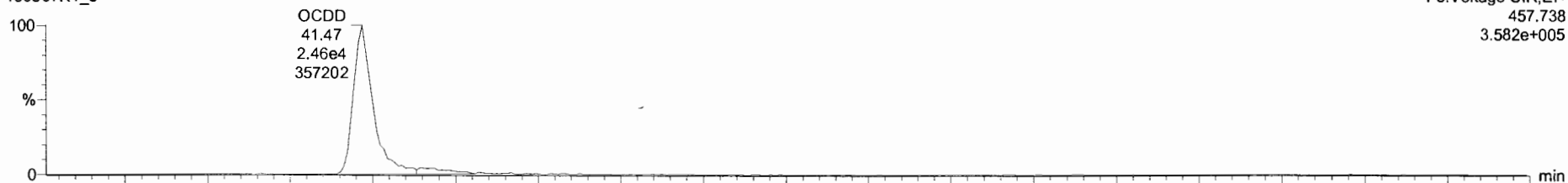
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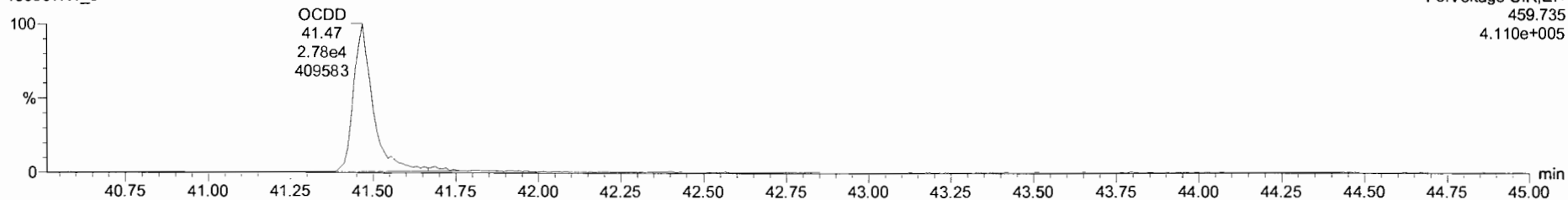
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**OCDD**

190507K1\_5

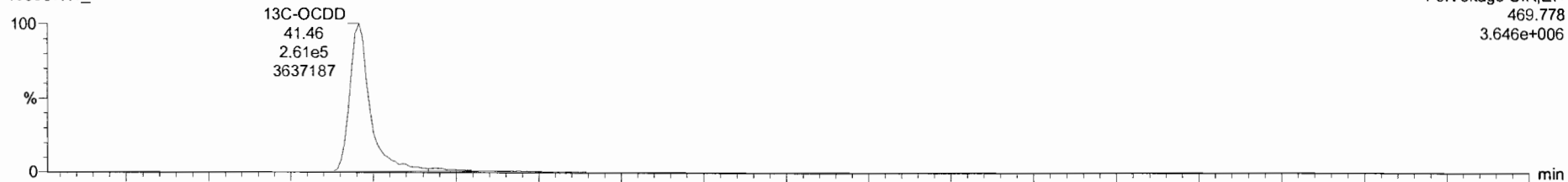


190507K1\_5

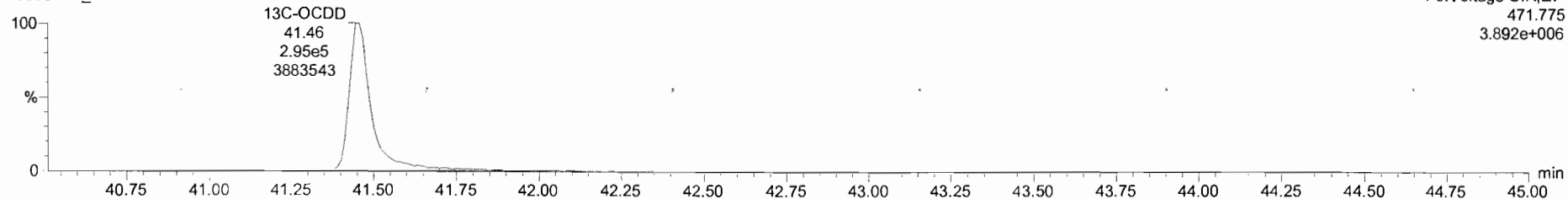


**13C-OCDD**

190507K1\_5

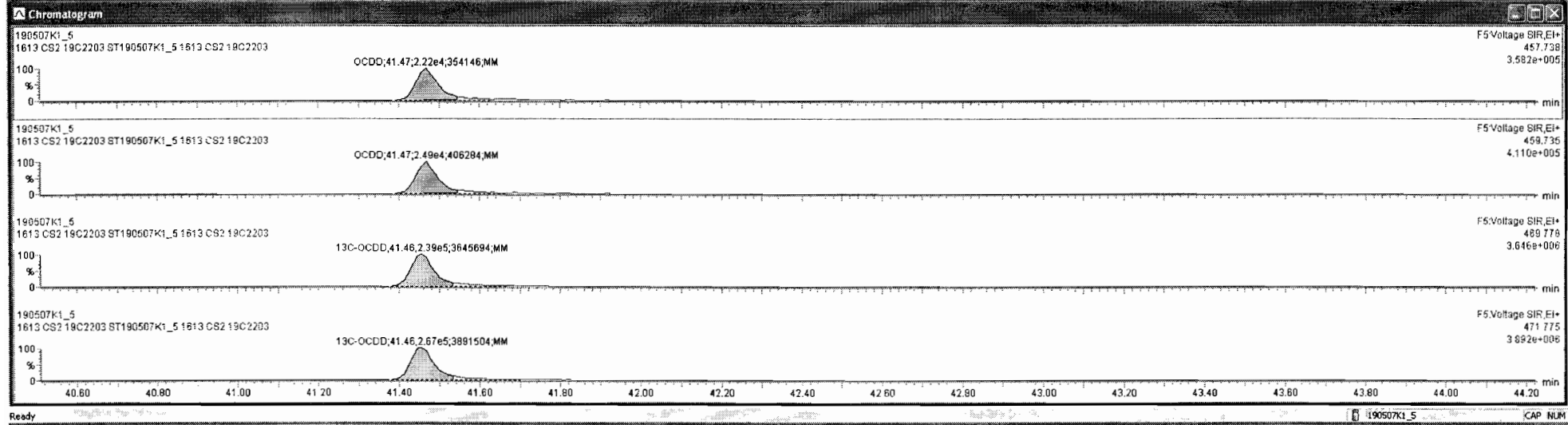
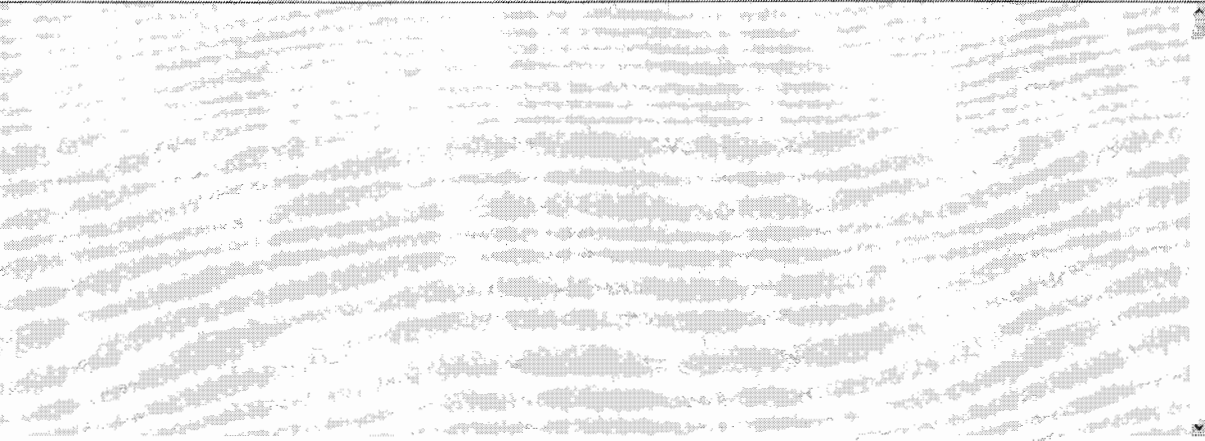


190507K1\_5



190507K1\_5 - ST190507K1\_5 1613 CS2 19C2203 - 1613 CS2 19C2203

Name	Resp	RA	NY	RF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0542	1.85
2 1,2,3,7,8-PeCDD	4.19e4	0.66	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0751	9.78
3 1,2,3,4,7,8-HxCDD	3.69e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	98.2	0.101	9.82
4 1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.101	9.99
5 1,2,3,7,8,9-HxCDD	3.65e4	1.22	NO	0.97	1.000	34.80	1.000	9.56	95.6	0.115	9.56
6 1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	38.31	1.000	9.56	95.6	0.144	9.56
7 OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.8	0.204	19.2
8 2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0457	1.97
9 1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	29.89	1.000	9.86	98.6	0.0670	9.86
10 2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0558	9.42
11 1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.127	9.96
12 1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.09	1.000	33.67	1.000	9.99	99.9	0.133	9.99
13 2,3,4,6,7,8-HxCDF	5.76e4	1.22	NO	1.18	1.000	34.26	1.001	9.67	96.7	0.136	9.66
14 1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.218	10.1
15 1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.181	9.80
16 1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.86	1.000	9.02	90.2	0.169	9.02
17 OCDF	6.07e4	0.93	NO	1.10	1.000	41.89	1.000	17.2	86.1	0.218	17.2
18 1,2,3,7,8-TCDF	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.195	
19 1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.310	
20 1,2,3,4,7,8-PeCDD	3.69e5	1.32	NO	0.65	1.000	34.40	1.014	99.7	99.7	0.476	
21 1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.396	
22 1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.464	
23 1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.129	99.2	99.2	0.456	





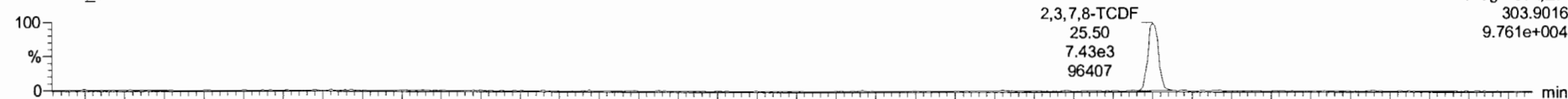
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

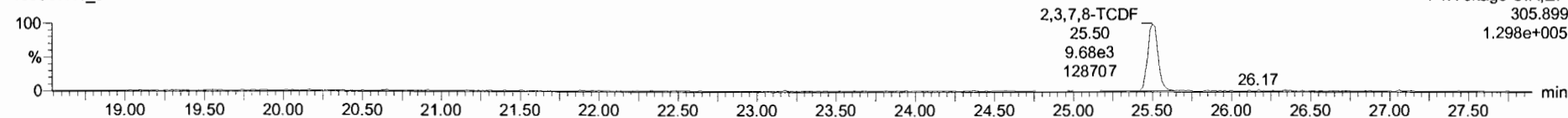
Name: 190507K1\_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1\_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203

**2,3,7,8-TCDF**

190507K1\_5

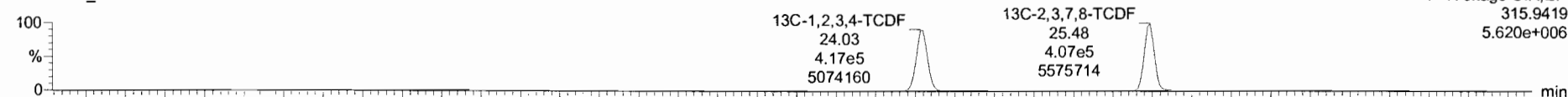


190507K1\_5

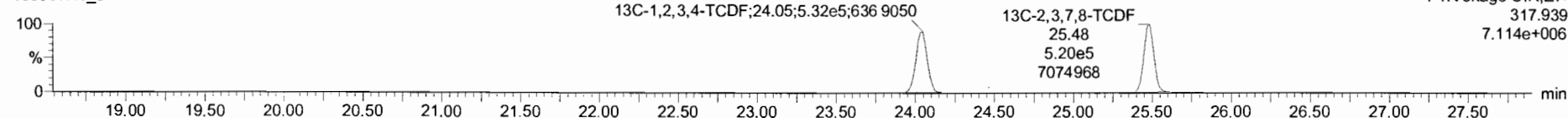


**13C-2,3,7,8-TCDF**

190507K1\_5

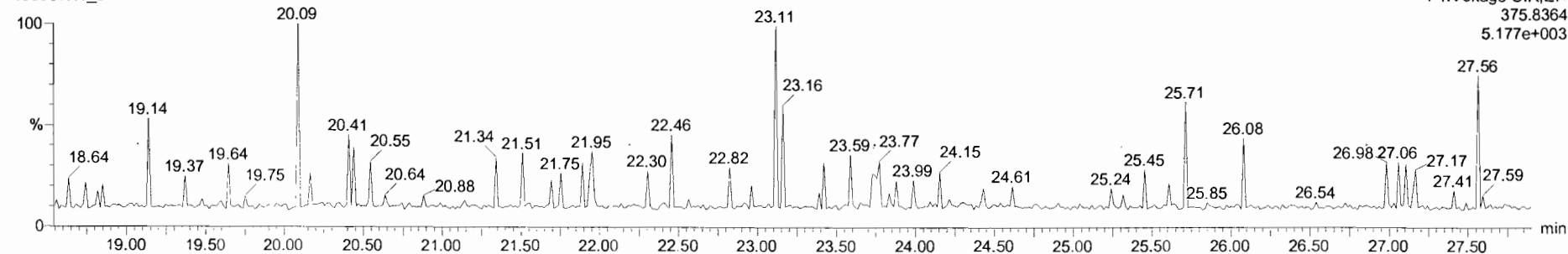


190507K1\_5



**DPE1**

190507K1\_5



Dataset: Untitled

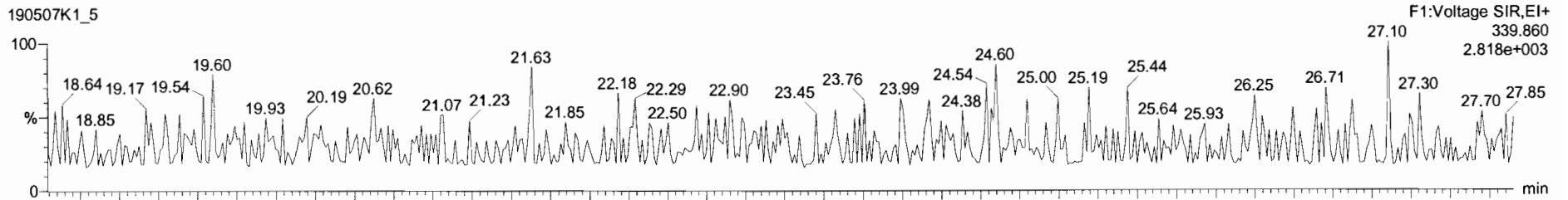
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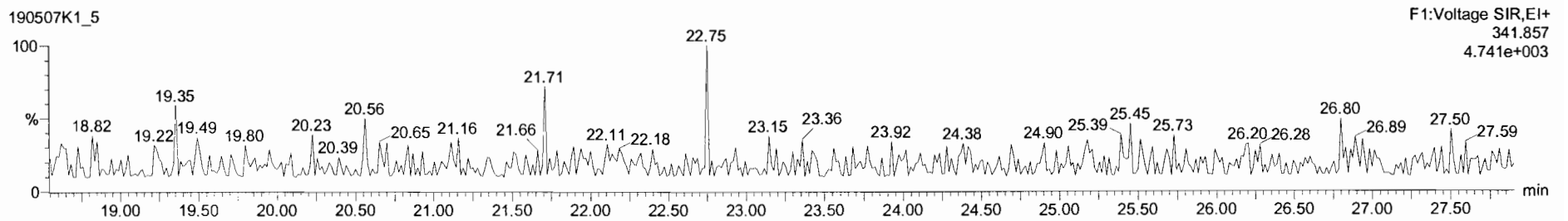
Name: 190507K1\_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1\_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203

1st Func. Penta-Furans

190507K1\_5

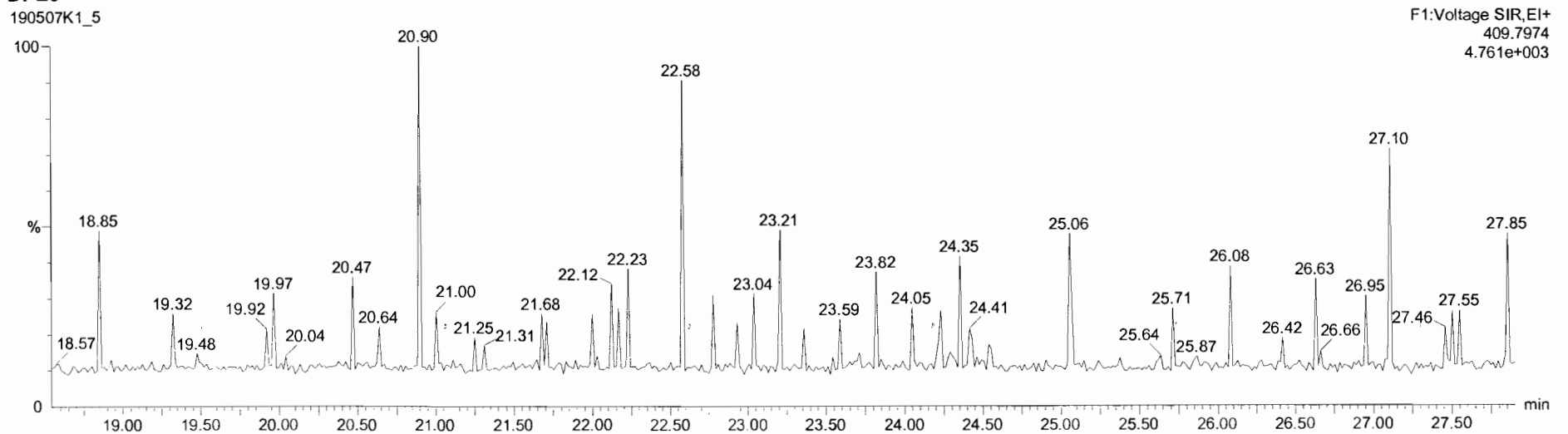


190507K1\_5



DPE6

190507K1\_5



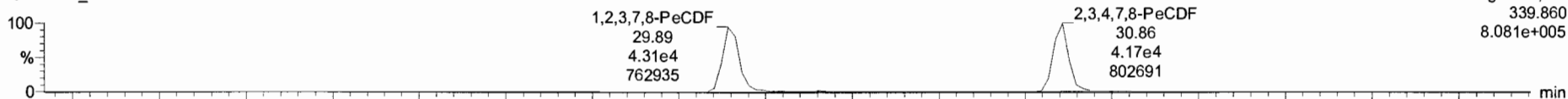
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

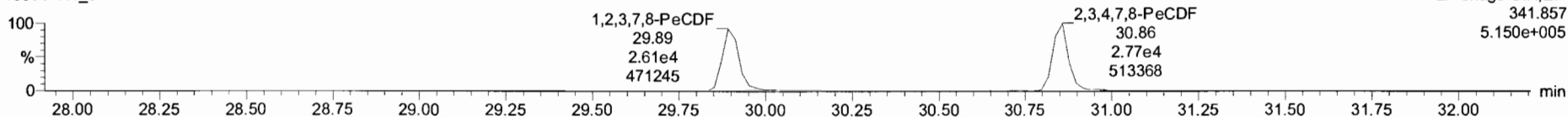
Name: 190507K1\_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1\_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203

**1,2,3,7,8-PeCDF**

190507K1\_5

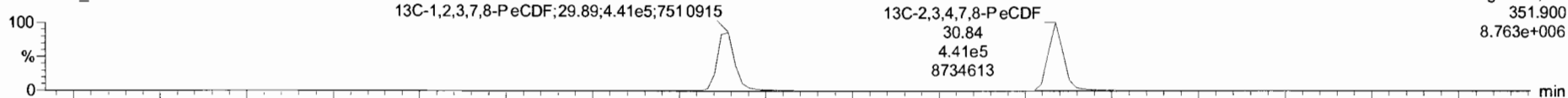


190507K1\_5

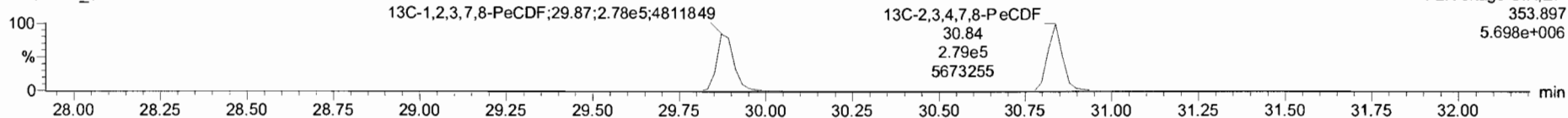


**13C-1,2,3,7,8-PeCDF**

190507K1\_5

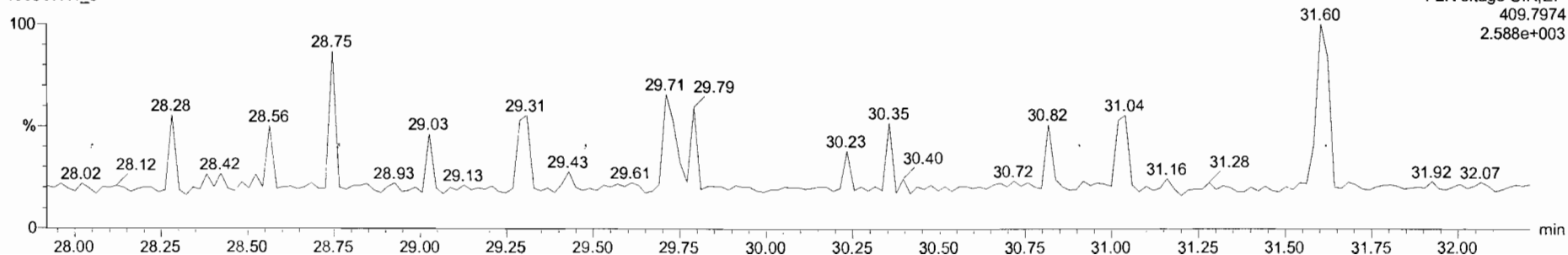


190507K1\_5



**DPE2**

190507K1\_5

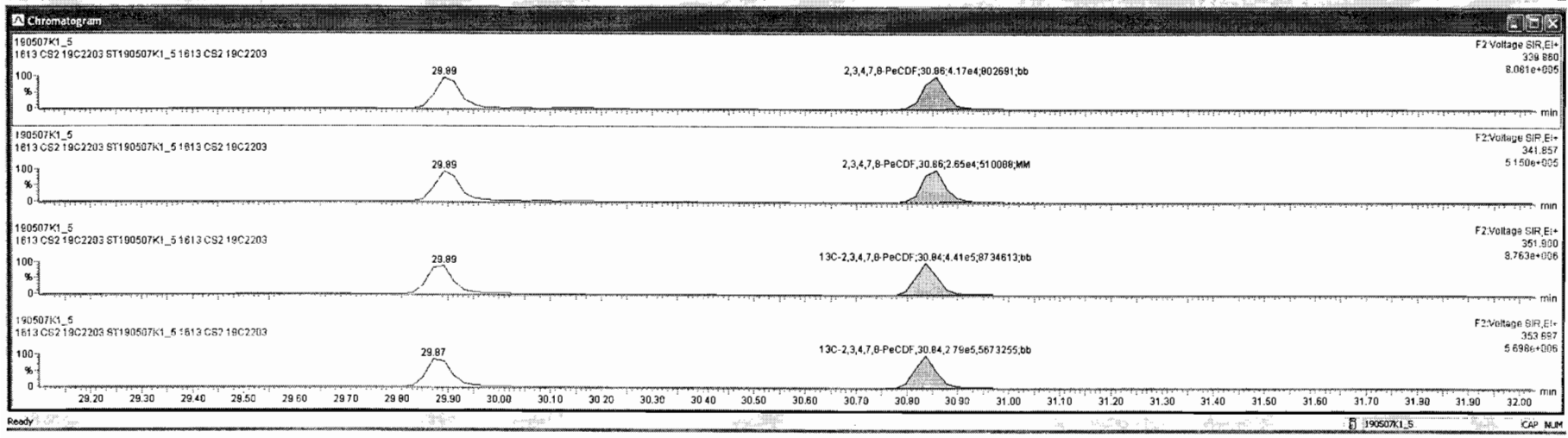


Target1.yml - 190507K1\_CRV.qld

File Edit View Display Processing Window Help

190507K1\_5 - ST:190507K1\_5 1613 CS2 19C2203 - 1613 CS2 19C2203

#	Name	Resp	RA	rvj	RPF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0542	1.85
2	1,2,3,7,8-PeCDD	4.19e4	0.66	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0751	9.78
3	1,2,3,4,7,8-HxCDD	3.89e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	98.2	0.101	9.82
4	1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.101	9.99
5	1,2,3,7,8,9-HxCDD	3.85e4	1.22	NO	0.97	1.000	34.60	1.000	9.56	95.6	0.115	9.56
6	1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	36.31	1.000	9.56	95.6	0.144	9.56
7	OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.8	0.204	19.2
8	2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0457	1.97
9	1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	26.89	1.000	9.88	98.8	0.0670	9.88
10	2,3,4,7,8-PeCDF	8.82e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0558	9.42
11	1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.127	9.96
12	1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.09	1.000	33.67	1.000	9.99	99.9	0.133	9.99
13	2,3,4,6,7,8-HxCDF	5.76e4	1.22	NO	1.18	1.000	34.26	1.001	9.67	96.7	0.136	9.66
14	1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.218	10.1
15	1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.161	9.80
16	1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	36.86	1.000	9.02	90.2	0.189	9.02
17	OCDF	6.07e4	0.93	NO	1.10	1.000	41.69	1.000	17.2	96.1	0.218	17.2
18	13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.195	
19	13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.310	
20	13C-1,2,3,4,7,8-HxCDD	3.89e5	1.32	NO	0.65	1.000	34.40	1.014	99.7	99.7	0.476	
21	13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.396	
22	13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.464	
23	13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	36.30	1.128	98.2	98.2	0.456	



Dataset: Untitled

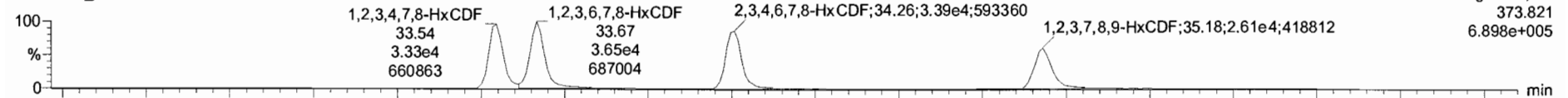
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

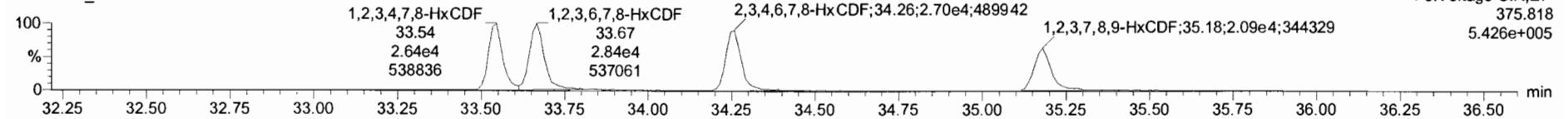
Name: 190507K1\_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1\_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203

**1,2,3,4,7,8-HxCDF**

190507K1\_5

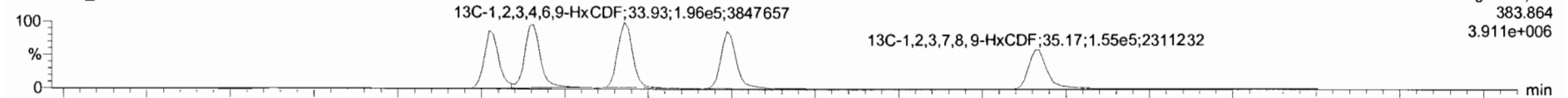


190507K1\_5

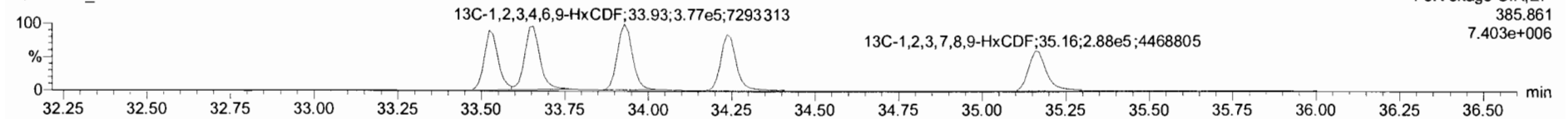


**13C-1,2,3,4,7,8-HxCDF**

190507K1\_5

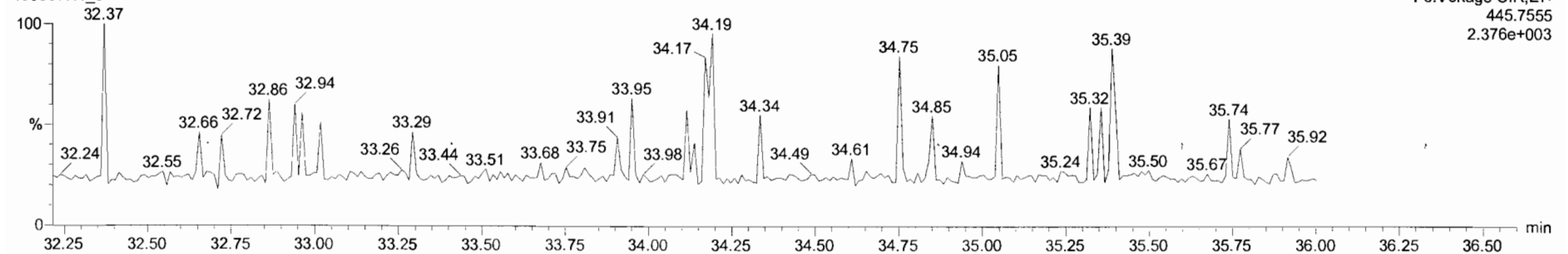


190507K1\_5



**DPE3**

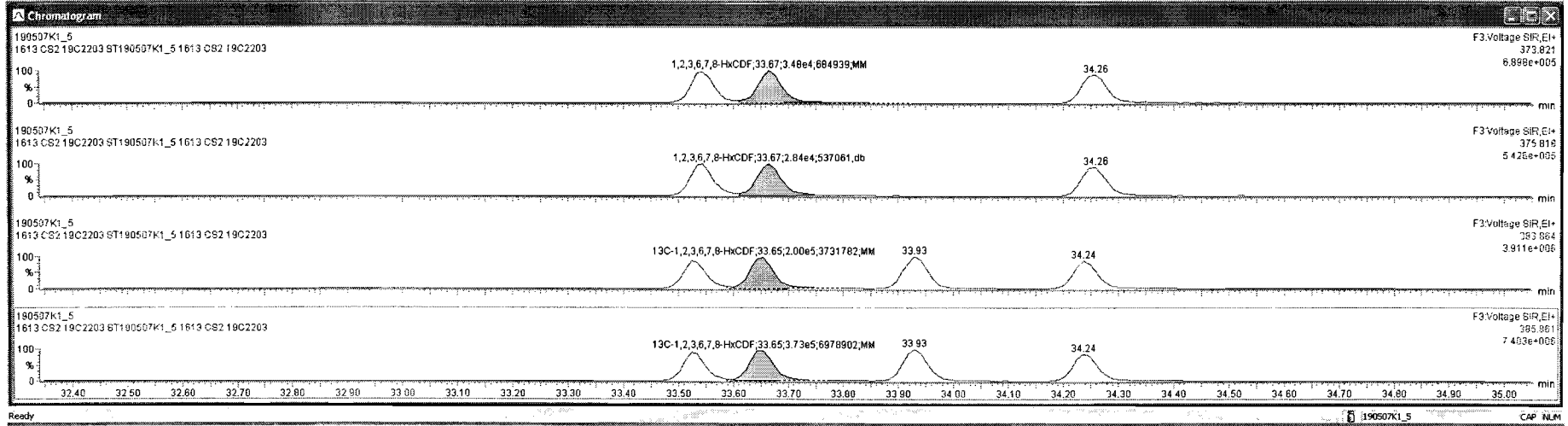
190507K1\_5



Target: 190507K1\_CRY.qid

190507K1\_5 - ST190507K1\_5 1613 CS2 19C2203 - 1613 CS2 19C2203

Name	Resp	RA	NY	RRF	StdVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0451	1.85
2 1,2,3,7,8-PeCDD	4.19e4	0.66	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0625	9.78
3 1,2,3,4,7,8-HxCDD	3.89e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	98.2	0.0838	9.82
4 1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.0838	9.99
5 1,2,3,7,8,9-HxCDD	3.65e4	1.22	NO	0.97	1.000	34.80	1.000	9.56	95.6	0.0960	9.56
6 1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	38.31	1.000	9.56	95.6	0.1120	9.56
7 OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.6	0.170	19.2
8 2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0381	1.97
9 1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.87	1.000	29.89	1.000	9.88	98.8	0.0558	9.88
10 2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0485	9.42
11 1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.106	9.96
12 1,2,3,6,7,8-HxCDF	6.52e4	1.22	NO	1.19	1.000	33.67	1.000	10.1	101	0.1111	10.1
13 2,3,4,6,7,8-HxCDF	5.76e4	1.22	NO	1.18	1.000	34.26	1.001	9.67	96.7	0.113	9.67
14 1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.182	10.1
15 1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.134	9.80
16 1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.86	1.000	9.02	90.2	0.140	9.02
17 OCDF	6.07e4	0.93	NO	1.10	1.000	41.69	1.000	17.2	86.1	0.182	17.2
18 13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.162	
19 13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.258	
20 13C-1,2,3,4,7,8-HxCDD	3.89e5	1.32	NO	0.85	1.000	34.40	1.014	99.7	99.7	0.396	
21 13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.330	
22 13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.386	
23 13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.128	98.2	98.2	0.380	

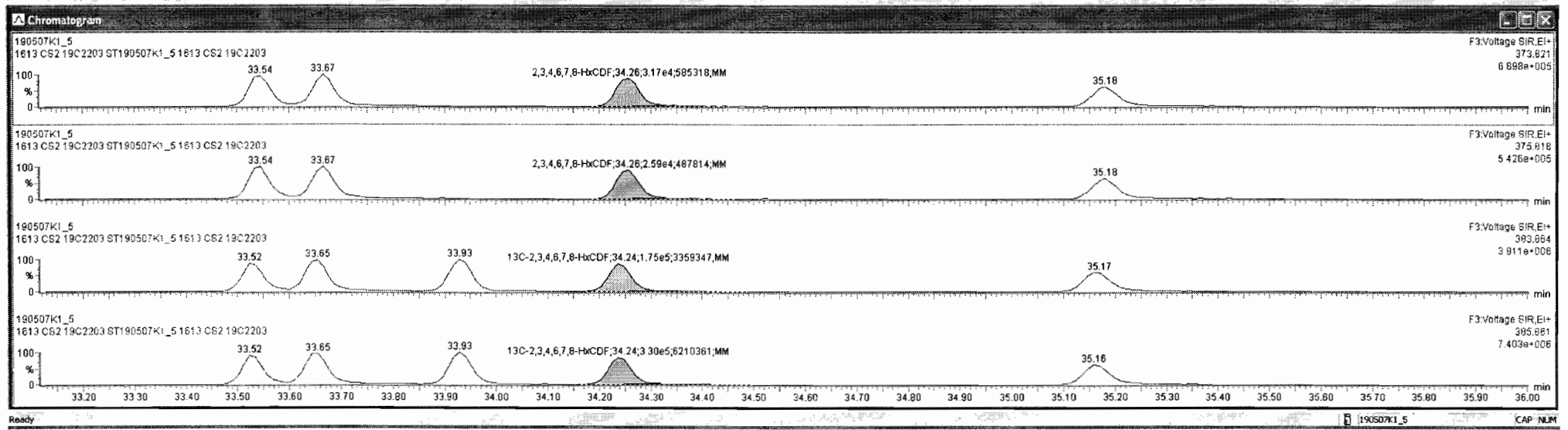


TargetLynx 190507K1\_CRV.qld

File Edit View Display Processing Window Help

190507K1\_5 - ST190507K1\_5 1613 CS2 19C2203 - 1613 CS2 19C2203

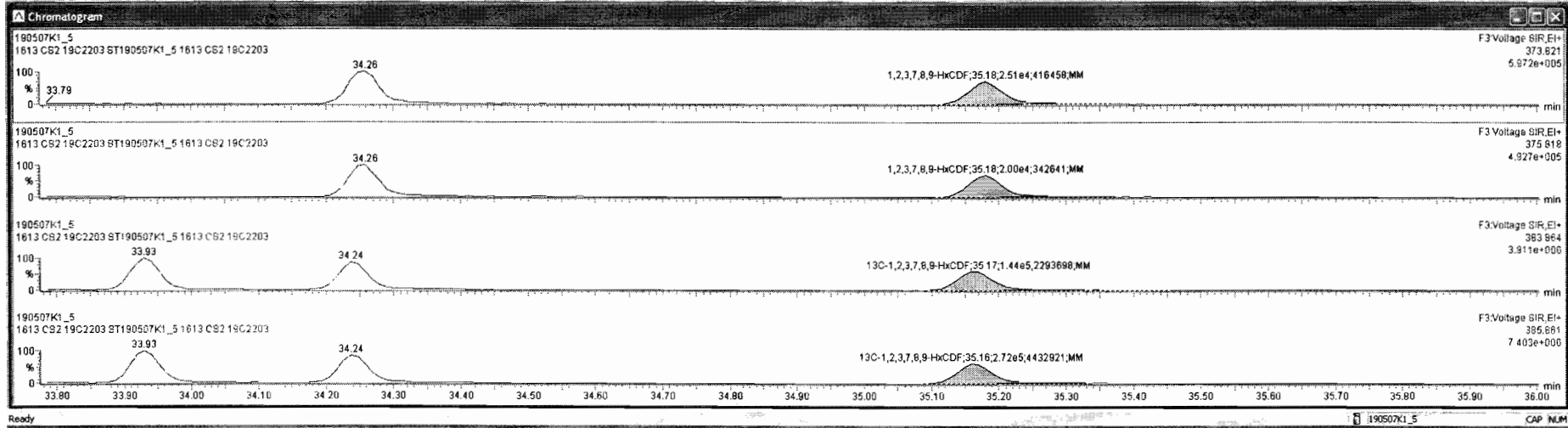
Name	Resp	RA	n/y	RfF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0451	1.85
2 1,2,3,7,8-PeCDD	4.19e4	0.86	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0625	9.78
3 1,2,3,4,7,8-HxCDD	3.89e4	1.24	NO	1.07	1.000	34.41	1.000	9.62	98.2	0.0838	9.62
4 1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.0838	9.99
5 1,2,3,7,8,9-HxCDD	3.65e4	1.22	NO	0.97	1.000	34.80	1.000	9.56	95.6	0.0960	9.56
6 1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	38.31	1.000	9.56	95.6	0.120	9.56
7 OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.8	0.170	19.2
8 2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0381	1.97
9 1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	29.89	1.000	9.88	98.8	0.0558	9.88
10 2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0465	9.42
11 1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.106	9.96
12 1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.10	1.000	33.67	1.000	10.1	101	0.111	10.1
13 2,3,4,6,7,8-HxCDF	5.78e4	1.22	NO	1.18	1.000	34.26	1.001	9.97	96.7	0.113	9.67
14 1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.16	1.000	10.1	101	0.182	10.1
15 1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.134	9.80
16 1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.86	1.000	9.02	90.2	0.140	9.02
17 OCDF	6.07e4	0.93	NO	1.10	1.000	41.68	1.000	17.2	86.1	0.182	17.2
18 13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.162	
19 13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.258	
20 13C-1,2,3,4,7,8-HxCDD	3.89e5	1.32	NO	0.65	1.000	34.40	1.014	99.7	99.7	0.396	
21 13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.330	
22 13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.386	
23 13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.129	98.2	98.2	0.380	



Target: ynx\_190507K1\_CRV.qld\*

190507K1\_5 - ST190507K1\_5 1613 CS2 19C2203 - 1613 CS2 19C2203

Name	Resp	RA	inj	RRF	WtWd	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0451	1.85
2 1,2,3,7,8-PeCDD	4.19e4	0.86	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0625	9.78
3 1,2,3,4,7,8-HxCDD	3.88e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	98.2	0.0838	9.82
4 1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.0838	9.99
5 1,2,3,7,8,9-HxCDD	3.65e4	1.22	NO	0.97	1.000	34.80	1.000	9.56	95.6	0.0960	9.56
6 1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	38.31	1.000	9.56	95.6	0.120	9.56
7 OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.8	0.170	19.2
8 2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0381	1.97
9 1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	29.89	1.000	9.88	98.8	0.0558	9.88
10 2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0465	9.42
11 1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.106	9.96
12 1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.10	1.000	33.67	1.000	10.1	101	0.111	10.1
13 2,3,4,6,7,8-HxCDF	5.76e4	1.22	NO	1.16	1.000	34.26	1.001	9.67	96.7	0.113	9.67
14 1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.182	10.1
15 1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.134	9.80
16 1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.68	1.000	9.02	90.2	0.140	9.02
17 OCDF	6.07e4	0.93	NO	1.10	1.000	41.69	1.000	17.2	86.1	0.182	17.2
18 13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.162	
19 13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.258	
20 13C-1,2,3,4,7,8-HxCDD	3.88e5	1.32	NO	0.85	1.000	34.40	1.014	99.7	99.7	0.396	
21 13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.330	
22 13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.396	
23 13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.129	98.2	98.2	0.380	





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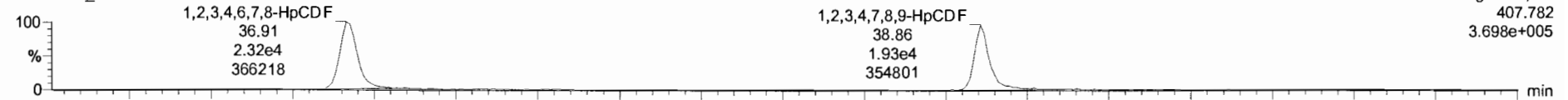
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1\_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203

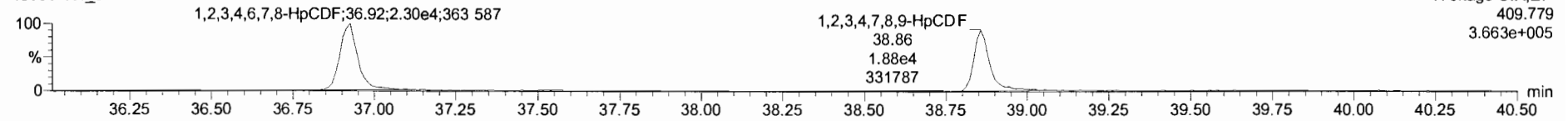
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190507K1\_5



F4:Voltage SIR,EI+  
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3.698e+005

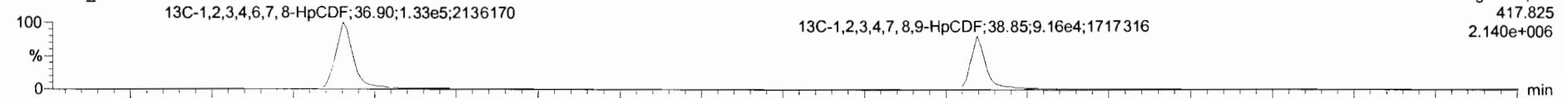
190507K1\_5



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3.663e+005

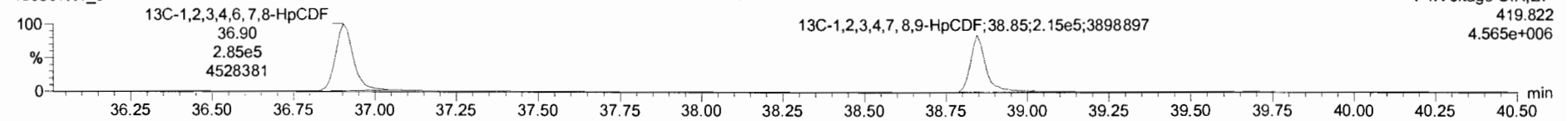
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190507K1\_5



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2.140e+006

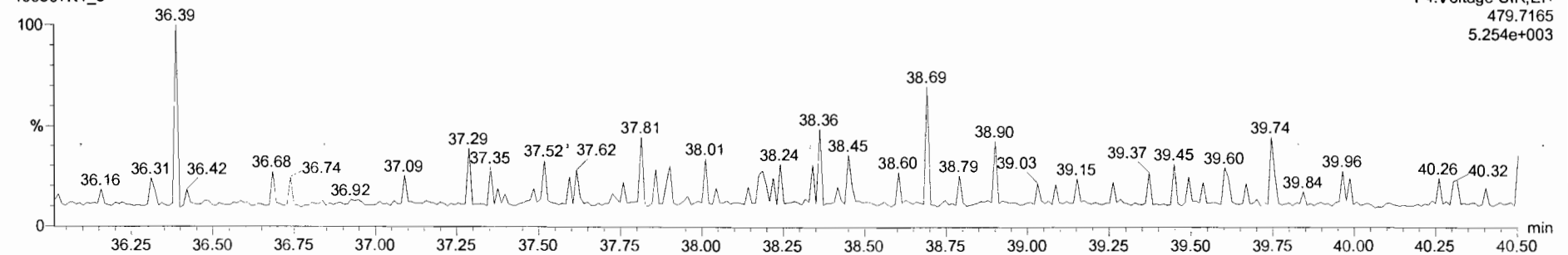
190507K1\_5



F4:Voltage SIR,EI+  
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4.565e+006

**DPE4**

190507K1\_5



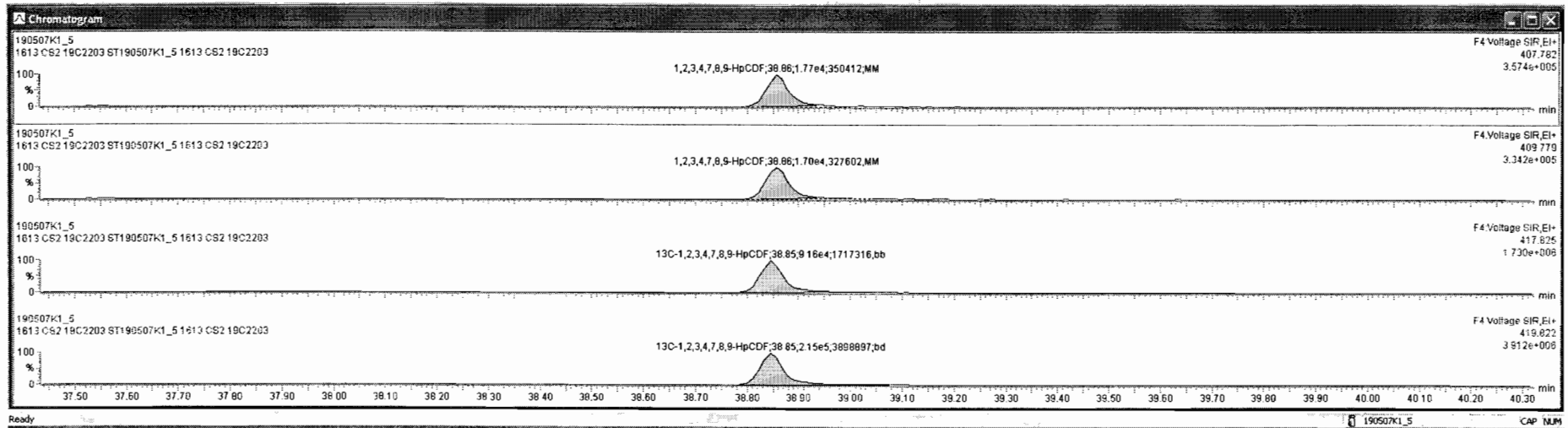
F4:Voltage SIR,EI+  
479.7165  
5.254e+003

Target: ymx - 190507K1\_CRY.qld

File Edit View Display Processing Window Help

190507K1\_5 - ST190507K1\_5 1613 CS2 19C2203 - 1613 CS2 19C2203

Line	Name	Resp	RA	FlY	RRF	wtVol	RT	RR1	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0451	1.85
2	1,2,3,7,8-PeCDD	4.19e4	0.66	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0625	9.78
3	1,2,3,4,7,8-HxCDD	3.89e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	98.2	0.0838	9.82
4	1,2,3,6,7,8-HxCDD	4.18e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.0838	9.99
5	1,2,3,7,8,9-HxCDD	3.65e4	1.22	NO	0.97	1.000	34.80	1.000	9.56	96.6	0.0960	9.56
6	1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	36.31	1.000	9.58	95.6	0.120	9.56
7	OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.8	0.170	19.2
8	2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0381	1.97
9	1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	29.89	1.000	9.88	98.8	0.0558	9.88
10	2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0465	9.42
11	1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.106	9.96
12	1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.10	1.000	33.67	1.000	10.1	101	0.111	10.1
13	2,3,4,6,7,8-HxCDF	5.78e4	1.22	NO	1.18	1.000	34.26	1.001	9.67	96.7	0.113	9.67
14	1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.182	10.1
15	1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.134	9.80
16	1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.86	1.000	9.02	90.2	0.140	9.02
17	OCDF	6.07e4	0.93	NO	1.10	1.000	41.89	1.000	17.2	86.1	0.182	17.2
18	13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.162	
19	13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.259	
20	13C-1,2,3,4,7,8-HxCDD	3.69e5	1.32	NO	0.65	1.000	34.40	1.014	99.7	99.7	0.396	
21	13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.330	
22	13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.396	
23	13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.129	98.2	98.2	0.390	



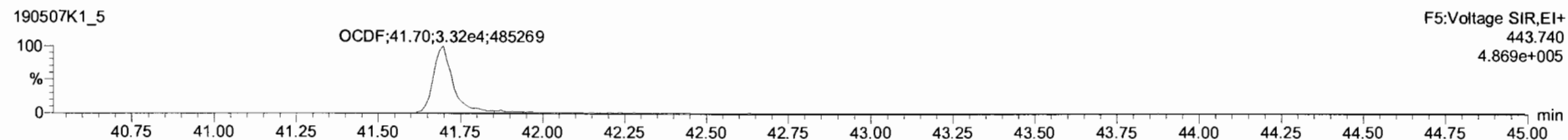
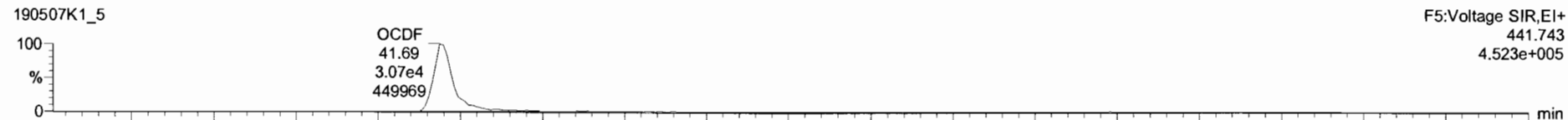
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

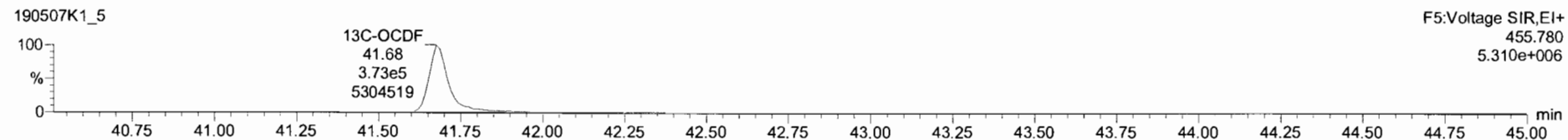
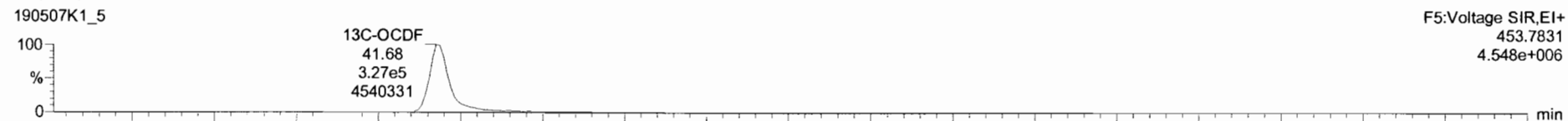
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1\_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203

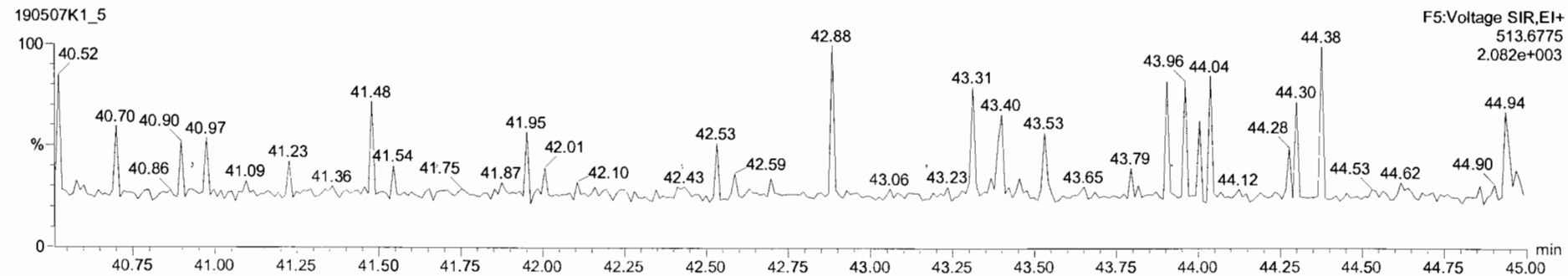
**OCDF**



**13C-OCDF**



**DPE5**

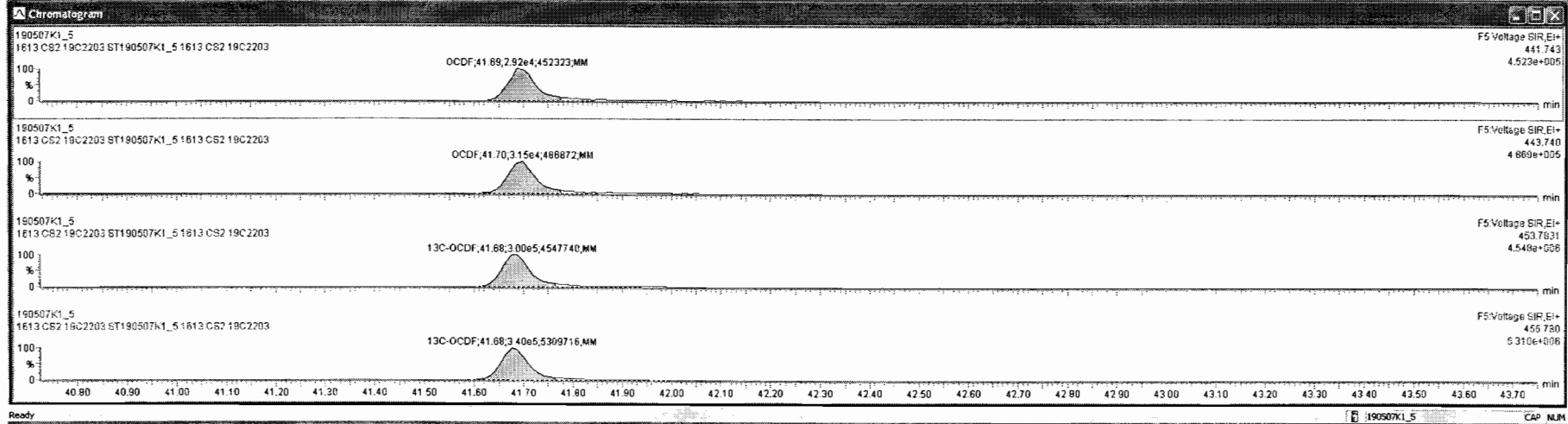


Target: ynx - 190507K1\_CRY.qld

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190507K1\_5 - ST190507K1\_5 1613 CS2 19C2203 - 1613 CS2 19C2203

Name	Resp	RA	QY	RF	wt/nd	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0461	1.85
2 1,2,3,7,8-PeCDD	4.18e4	0.65	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0625	9.78
3 1,2,3,4,7,8-HxCDD	3.89e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	88.2	0.0838	9.82
4 1,2,3,6,7,8-HxCDD	4.18e4	1.22	NO	0.97	1.000	34.52	1.000	9.89	99.9	0.0838	9.89
5 1,2,3,7,8,9-HxCDD	3.85e4	1.22	NO	0.87	1.000	34.80	1.000	9.56	95.6	0.0860	9.56
6 1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	36.31	1.000	9.56	95.6	0.120	9.56
7 OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.8	0.170	19.2
8 2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0381	1.97
9 1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	29.89	1.000	9.88	98.8	0.0558	9.88
10 2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0465	9.42
11 1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.106	9.96
12 1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.10	1.000	33.67	1.000	10.1	101	0.111	10.1
13 2,3,4,6,7,8-HxCDF	5.76e4	1.22	NO	1.18	1.000	34.26	1.001	9.67	96.7	0.113	9.67
14 1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.182	10.1
15 1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.134	9.80
16 1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.86	1.000	9.02	90.2	0.140	9.02
17 OCDF	6.07e4	0.93	NO	1.10	1.000	41.89	1.000	17.2	95.3	0.162	17.2
18 13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.162	
19 13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.258	
20 13C-1,2,3,4,7,8-HxCDD	3.69e5	1.32	NO	0.65	1.000	34.40	1.014	99.7	99.7	0.306	
21 13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.330	
22 13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.306	
23 13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.126	98.2	98.2	0.300	

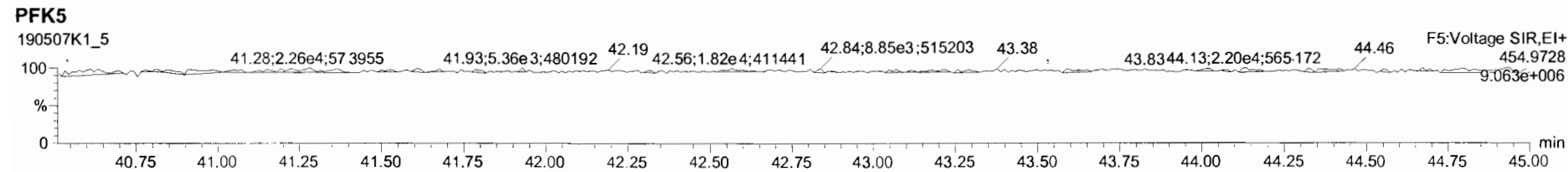
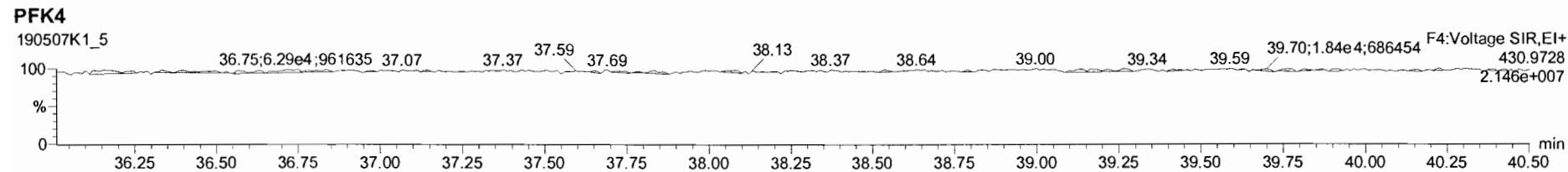
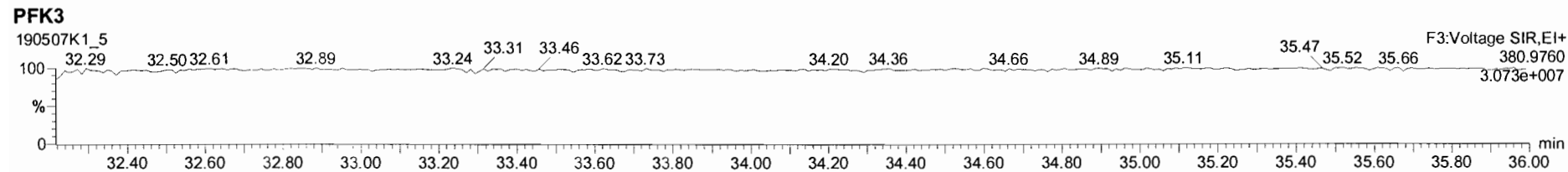
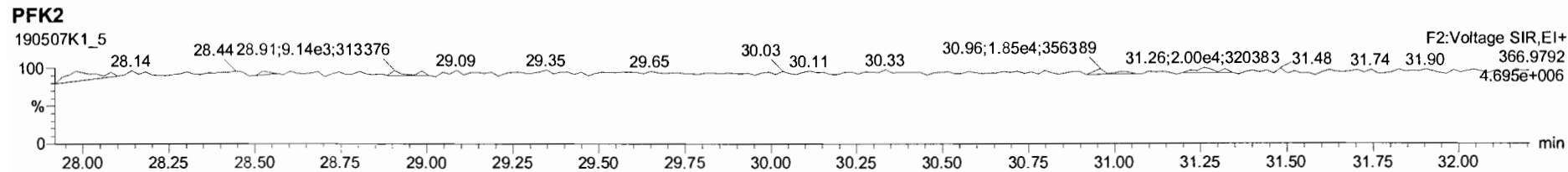
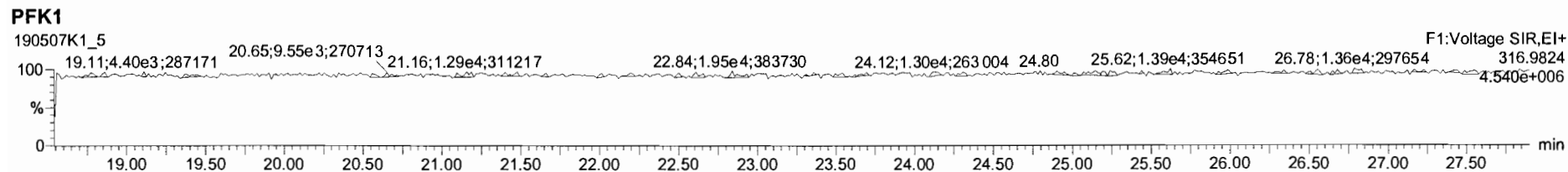


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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1\_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203



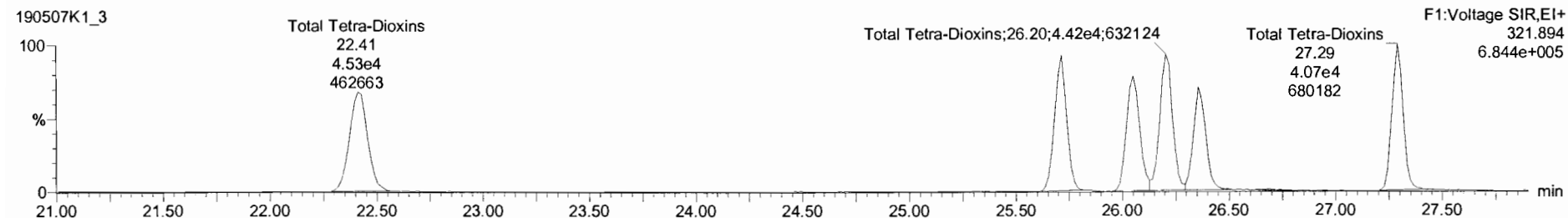
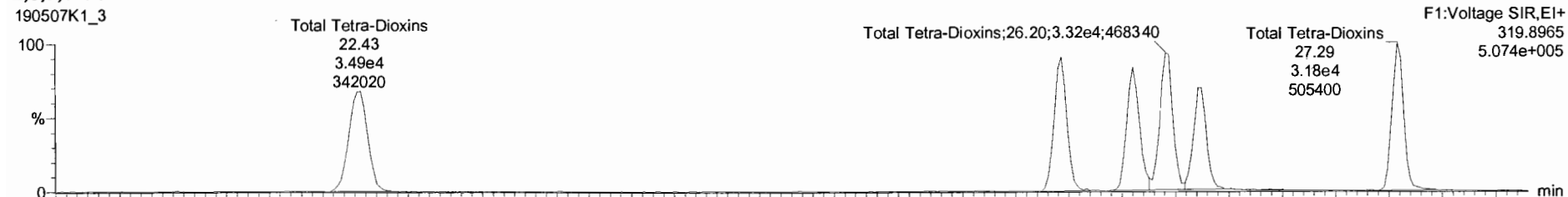
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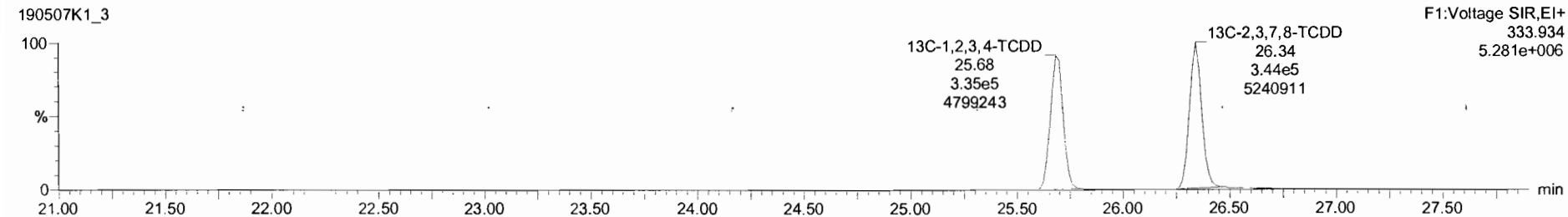
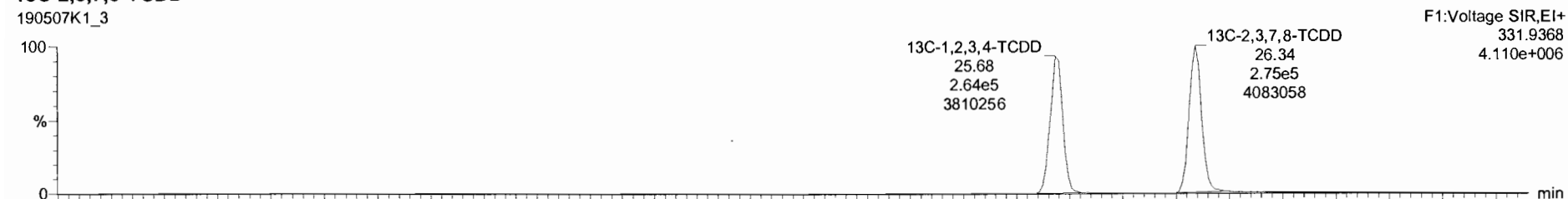
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Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

### 2,3,7,8-TCDD



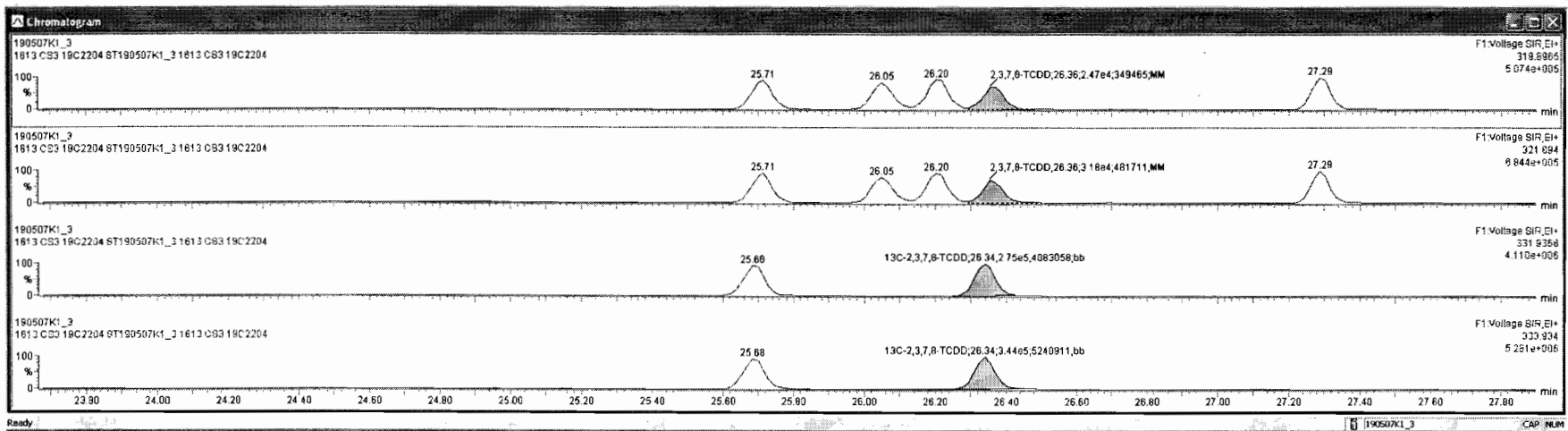
### 13C-2,3,7,8-TCDD



TargetLynx - 190507K1\_CRW.gld

190507K1\_3 - ST190507K1\_3 1613 CS3 19C2204 - 1613 CS3 19C2204

Name	Resp	RA	NV	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.65e4	0.79	NO	0.92	1.000	26.36	1.001	9.97	96.7	0.0600	9.87
2 1,2,3,7,8-PeCDD	1.80e5	0.83	NO	0.90	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3 1,2,3,4,7,8-HxCDD	1.76e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	98.0	0.299	49.0
4 1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	48.5	97.0	0.308	48.5
5 1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6 1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7 OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8 2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0657	9.59
9 1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	98.7	0.135	49.4
10 2,3,4,7,8-PeCDF	3.17e5	1.56	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.148	49.7
11 1,2,3,4,7,8-HxCDF	2.69e5	1.25	NO	1.24	1.000	33.58	1.001	48.1	98.2	0.274	48.1
12 1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13 2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.267	51.0
14 1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	48.1	98.2	0.443	48.1
15 1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16 1,2,3,4,7,8,9-HpCDF	1.69e5	1.10	NO	1.26	1.000	38.87	1.000	46.6	93.2	0.350	46.6
17 OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18 19C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.026	98.4	98.4	0.276	
19 19C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20 19C-1,2,3,4,7,8-HxCDD	3.36e5	1.24	NO	0.85	1.000	34.41	1.014	102	102	0.543	
21 19C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22 19C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.68	1.000	34.80	1.025	102	102	0.529	
23 19C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.54	1.000	38.31	1.129	100	100	0.557	



Dataset: Untitled

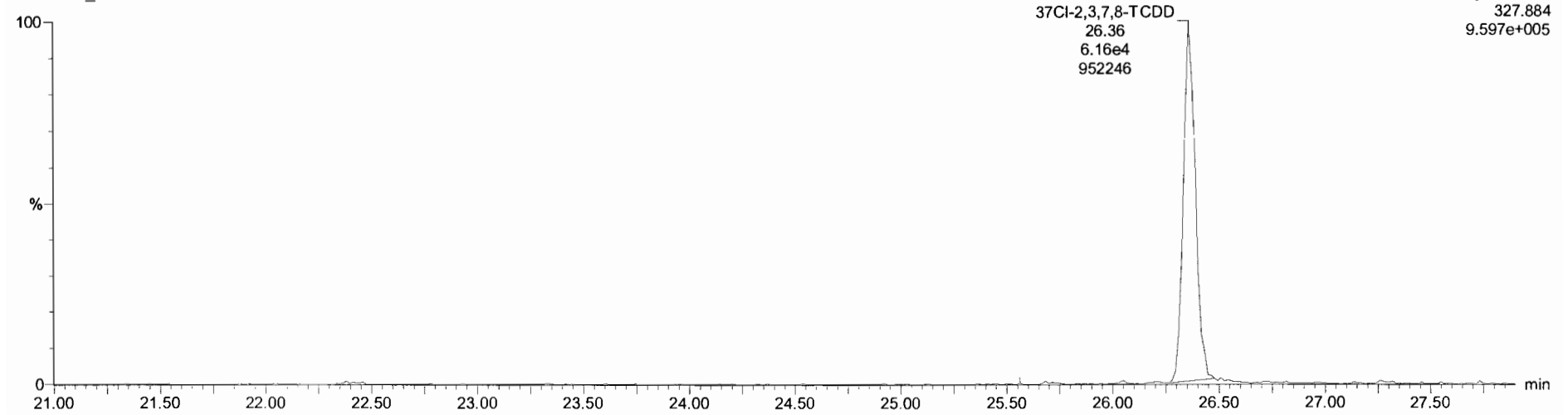
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

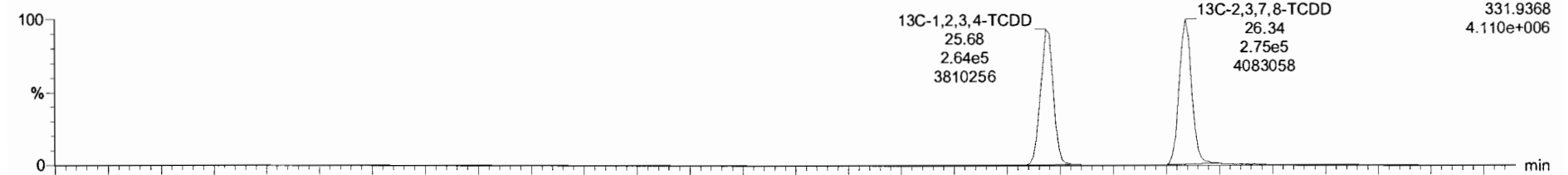
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190507K1\_3

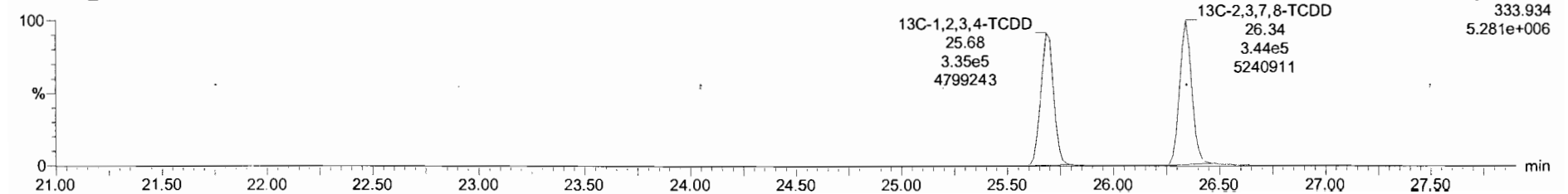


**13C-1,2,3,4-TCDD**

190507K1\_3



190507K1\_3





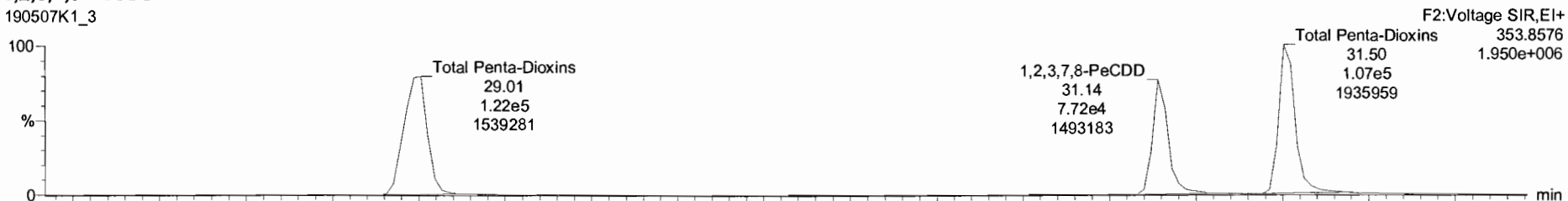
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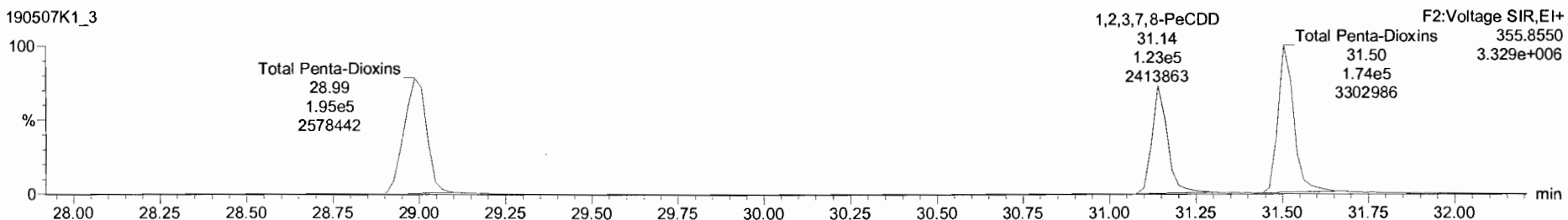
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**1,2,3,7,8-PeCDD**

190507K1\_3

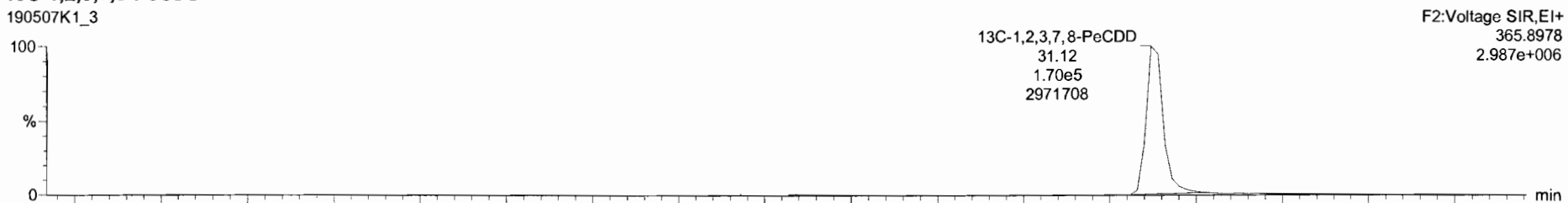


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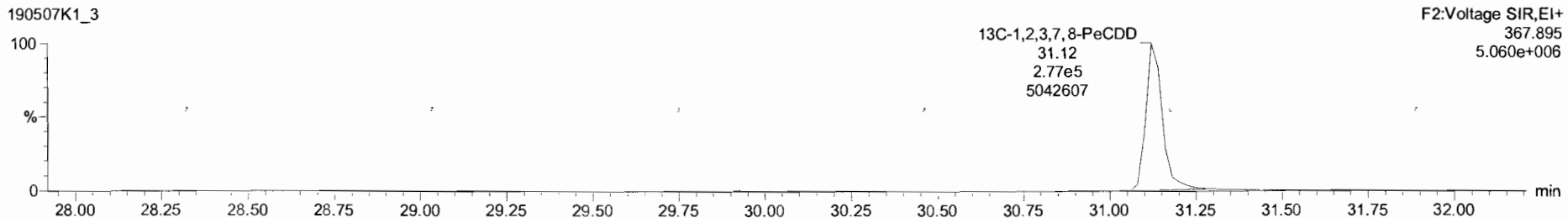


**13C-1,2,3,7,8-PeCDD**

190507K1\_3



190507K1\_3

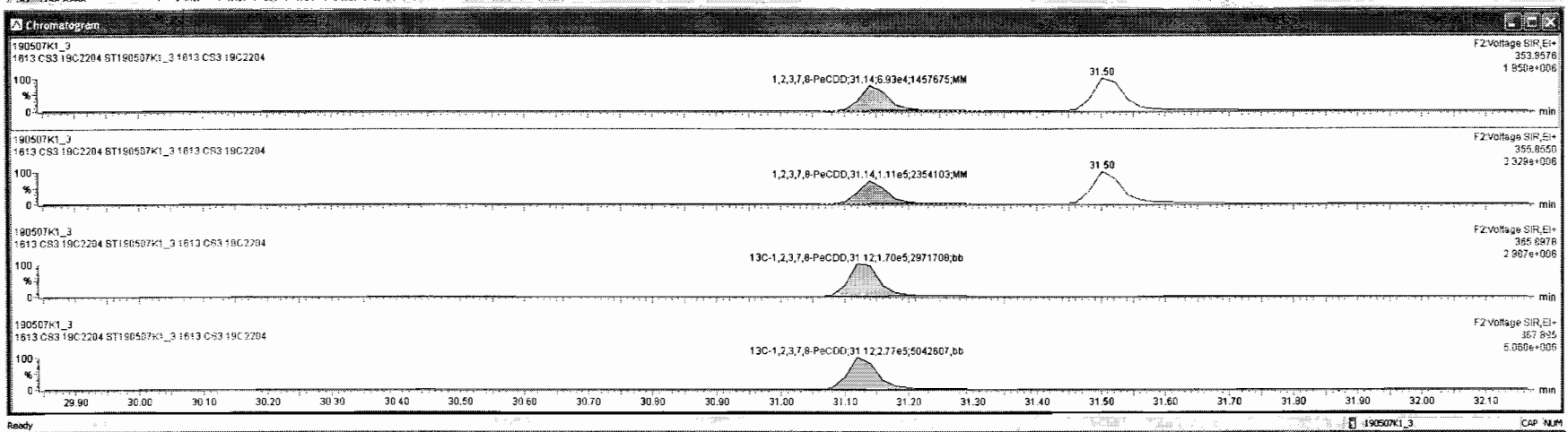


TargetLynx - 190507K1.CRV.qld

File Edit View Display Processing Window Help

190507K1\_3 - ST190507K1\_3 1613 CS3 19C2204 - 1613 CS3 19C2204

Name	Resp	RA	nV	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.65e4	0.78	NO	0.92	1.000	26.36	1.001	9.87	98.7	0.0900	9.87
2 1,2,3,7,8-PeCDD	1.80e5	0.63	NO	0.80	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3 1,2,3,4,7,8-HxCDD	1.76e5	1.26	NO	1.07	1.000	34.42	1.000	49.0	96.0	0.299	49.0
4 1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	48.5	97.0	0.308	48.5
5 1,2,3,7,8-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6 1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7 OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8 2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0857	9.59
9 1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.81	1.001	49.4	96.7	0.135	49.4
10 2,3,4,7,8-PeCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.149	49.7
11 1,2,3,4,7,8-HxCDF	2.68e5	1.25	NO	1.24	1.000	33.56	1.001	49.1	98.2	0.274	49.1
12 1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13 2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14 1,2,3,7,8-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15 1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16 1,2,3,4,7,8,9-HpCDF	1.68e5	1.10	NO	1.26	1.000	38.87	1.000	46.8	93.2	0.350	46.8
17 OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18 13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.026	98.4	98.4	0.275	
19 13C-1,2,3,7,8-PeCDD	4.47e5	0.81	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20 13C-1,2,3,4,7,8-HxCDD	3.38e5	1.24	NO	0.65	1.000	34.41	1.014	102	102	0.543	
21 13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22 13C-1,2,3,7,8-HxCDD	3.44e5	1.18	NO	0.66	1.000	34.80	1.025	102	102	0.529	
23 13C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.54	1.000	38.31	1.128	100	100	0.557	



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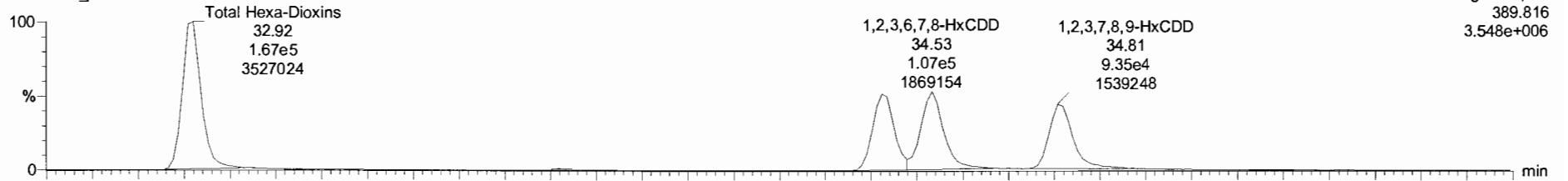
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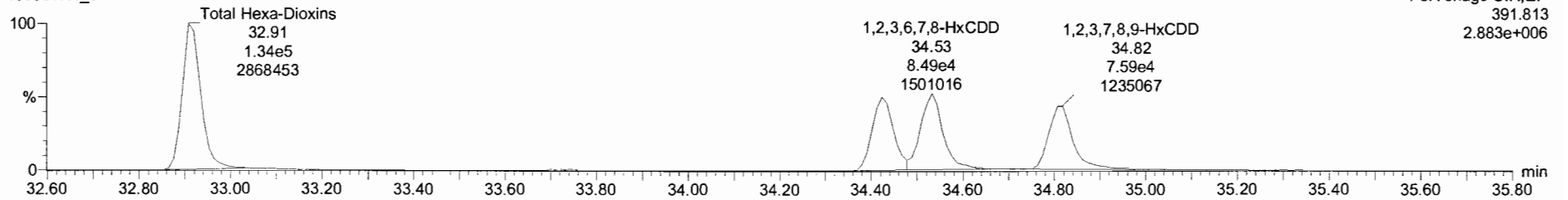
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**1,2,3,4,7,8-HxCDD**

190507K1\_3

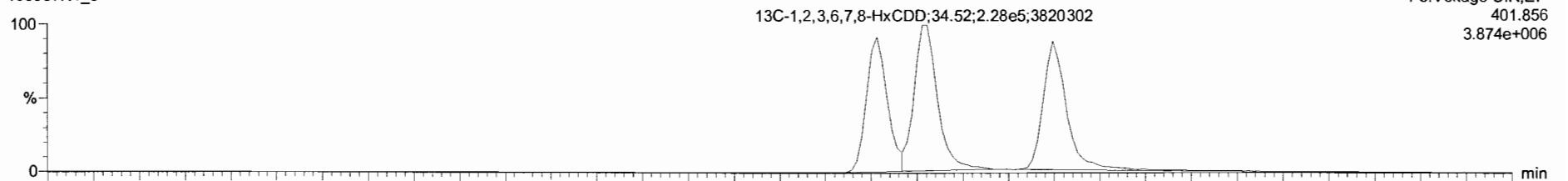


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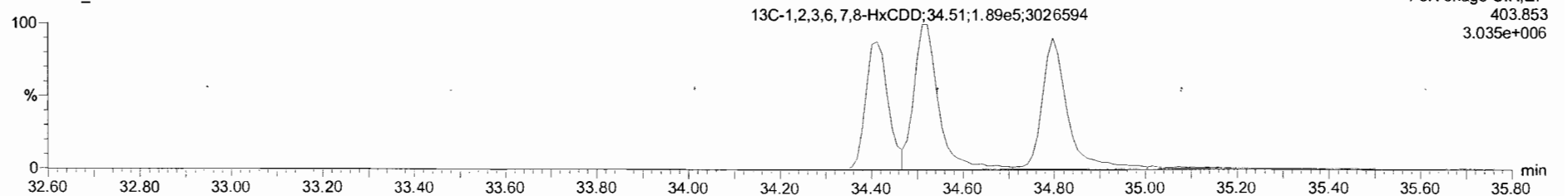


**13C-1,2,3,4,7,8-HxCDD**

190507K1\_3



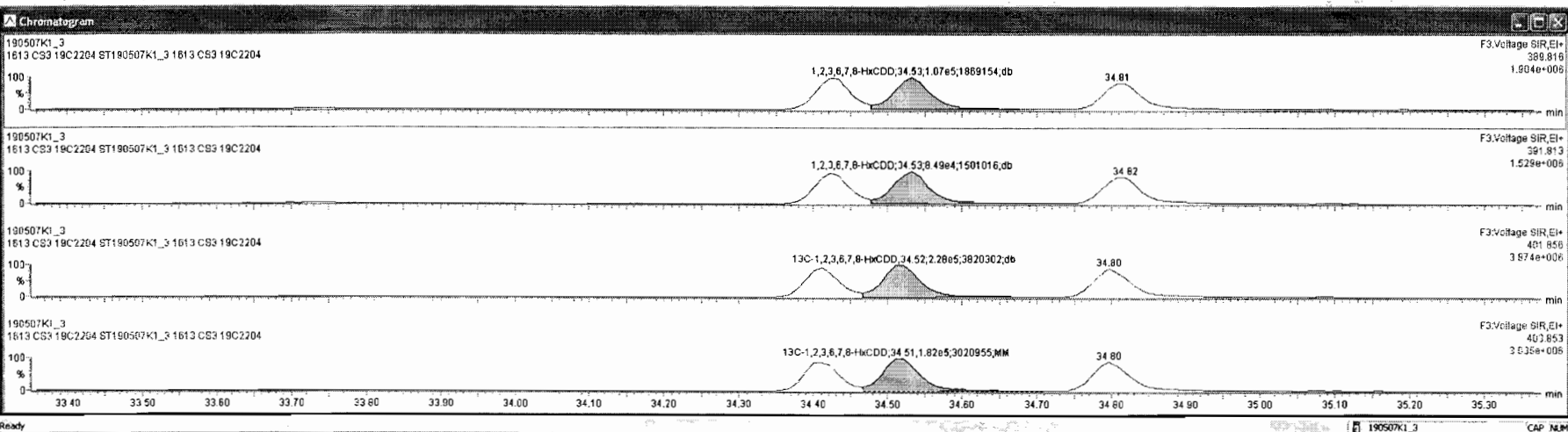
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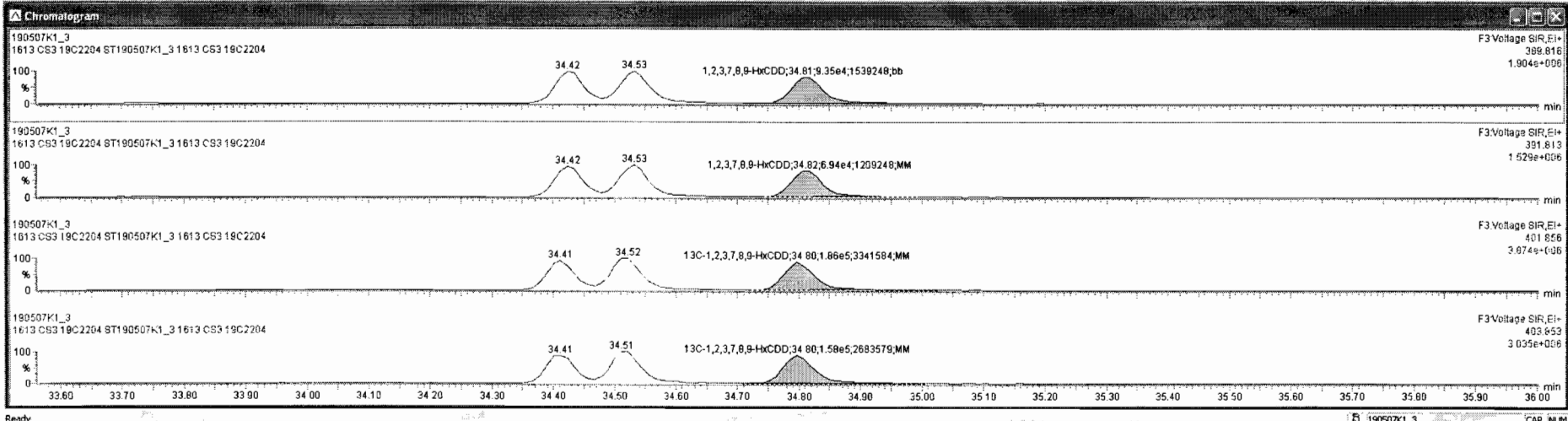
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Peak	Name	Resp	RA	n/y	RRF	WAcq	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.65e4	0.78	NO	0.92	1.000	25.36	1.001	9.87	96.7	0.0900	9.87
2	1,2,3,7,8-PeCDD	1.80e5	0.63	NO	0.90	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3	1,2,3,4,7,8-HxCDD	1.76e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	98.0	0.299	49.0
4	1,2,3,6,7,8-HxCDD	1.92e5	1.28	NO	0.97	1.000	34.53	1.006	46.5	97.0	0.308	46.5
5	1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6	1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7	OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8	2,3,7,8-TCDF	7.75e4	0.79	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0857	9.59
9	1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	98.7	0.135	49.4
10	2,3,4,7,8-PeCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.145	49.7
11	1,2,3,4,7,8-HxCDF	2.69e5	1.25	NO	1.24	1.000	33.56	1.001	49.1	98.2	0.274	49.1
12	1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.89	1.000	50.6	101	0.280	50.6
13	2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14	1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15	1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16	1,2,3,4,7,8,9-HpCDF	1.89e5	1.10	NO	1.26	1.000	38.87	1.000	46.8	93.2	0.350	46.5
17	OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18	13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	25.34	1.026	98.4	98.4	0.276	
19	13C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20	13C-1,2,3,4,7,8-HxCDD	3.38e5	1.24	NO	0.85	1.000	34.41	1.014	102	102	0.543	
21	13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.86	1.000	34.80	1.025	102	102	0.529	
23	13C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.54	1.000	36.31	1.126	100	100	0.557	



190507K1\_3 - ST190507K1\_3 1613 CS3 19C2204 - 1613 CS3 19C2204

Line	Name	Resp	RA	dy	RF	WtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.65e4	0.78	NO	0.92	1.000	26.36	1.001	9.87	98.7	0.0900	9.87
2	1,2,3,7,8-PeCDD	1.80e5	0.63	NO	0.90	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3	1,2,3,4,7,8-HxCDD	1.76e5	1.26	NO	1.07	1.000	34.42	1.000	49.0	98.0	0.299	49.0
4	1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	46.5	97.0	0.308	46.5
5	1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6	1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7	OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8	2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0857	9.59
9	1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	98.7	0.135	49.4
10	1,2,3,4,7,8-PeCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.149	49.7
11	1,2,3,4,7,8-HxCDF	2.69e5	1.25	NO	1.24	1.000	33.56	1.001	49.1	98.2	0.274	49.1
12	1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13	2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14	1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15	1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16	1,2,3,4,7,8,9-HpCDF	1.69e5	1.10	NO	1.26	1.000	38.87	1.000	46.6	93.2	0.350	46.6
17	OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18	13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	28.34	1.026	98.4	98.4	0.276	
19	13C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20	13C-1,2,3,4,7,8-HxCDD	3.38e5	1.24	NO	0.65	1.000	34.41	1.014	102	102	0.543	
21	13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.66	1.000	34.80	1.025	102	102	0.529	
23	13C-1,2,3,4,6,7,8-HpCDD	2.78e5	1.05	NO	0.54	1.000	38.31	1.129	100	100	0.557	



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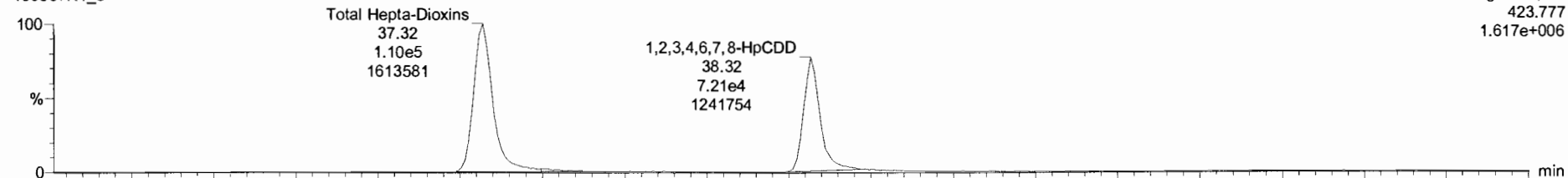
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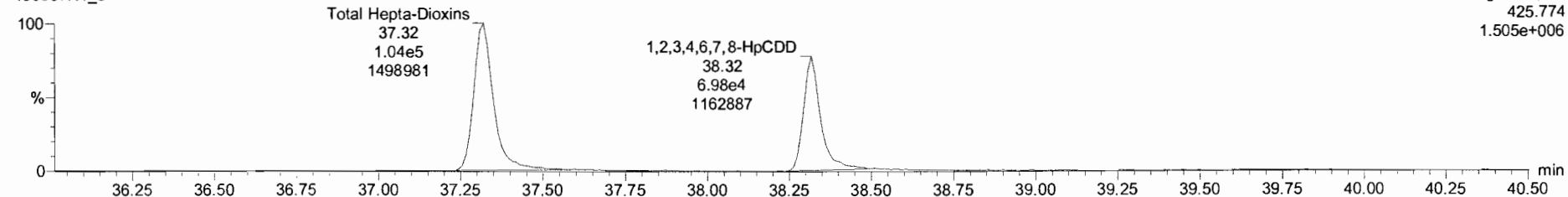
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**1,2,3,4,6,7,8-HpCDD**

190507K1\_3

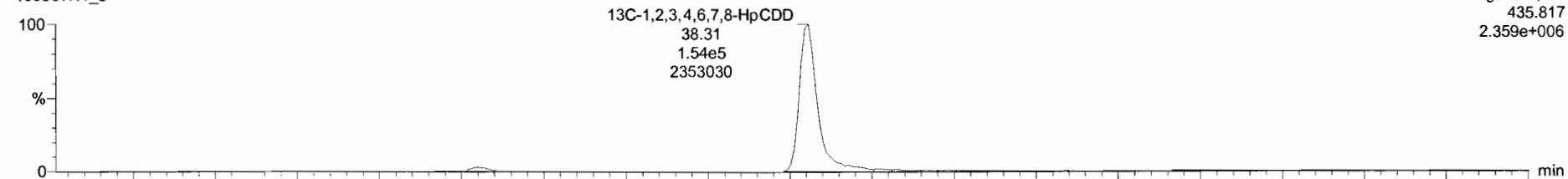


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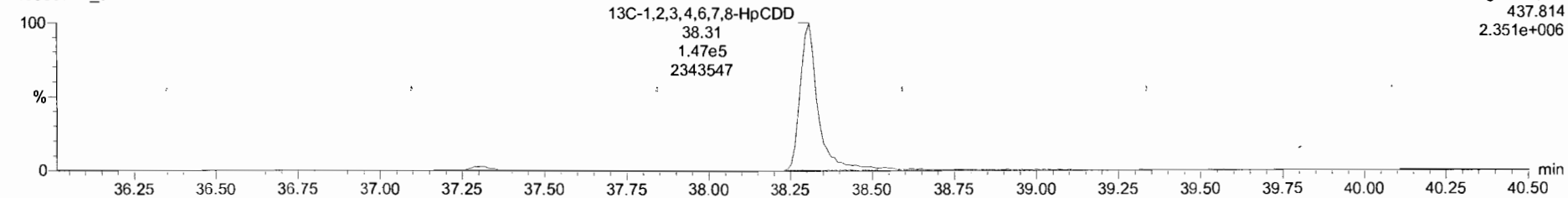


**13C-1,2,3,4,6,7,8-HpCDD**

190507K1\_3

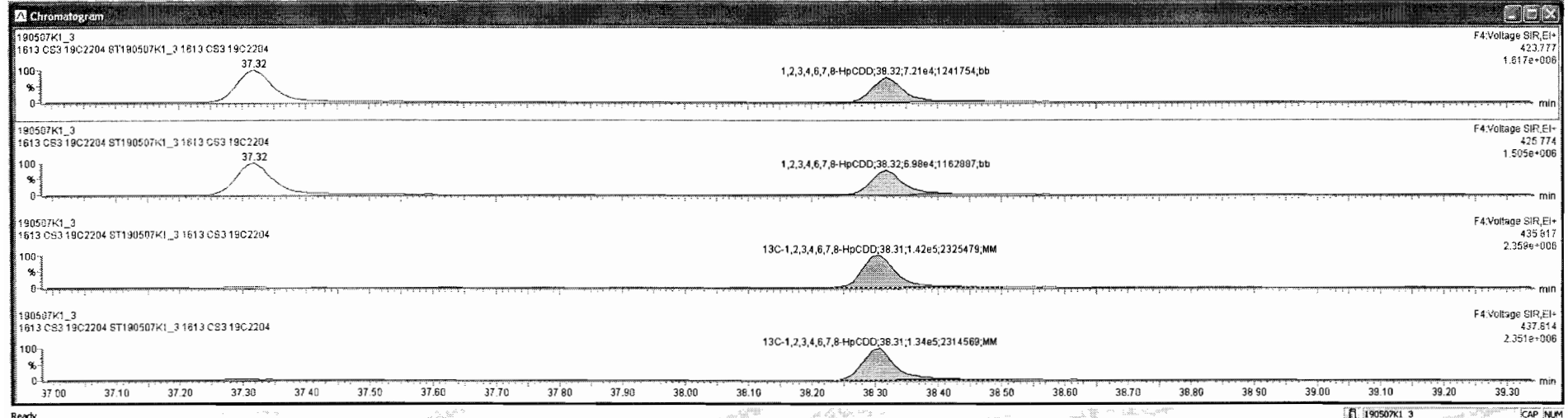
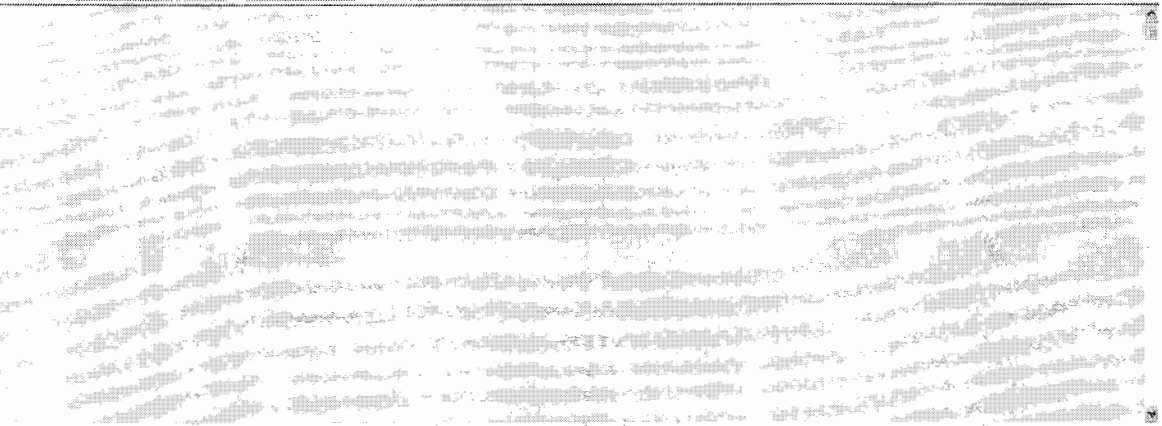


190507K1\_3



190507K1\_3 - ST190507K1\_3 1613 CS3 19C2204 - 1613 CS3 19C2204

Name	Resp	RA	RY	RRF	wVnl	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.85e4	0.78	NO	0.92	1.000	26.36	1.001	9.87	98.7	0.0800	9.87
2 1,2,3,7,8-PeCDD	1.80e5	0.63	NO	0.90	1.000	31.14	1.001	44.5	69.0	0.154	44.5
3 1,2,3,4,7,8-HxCDD	1.76e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	88.0	0.299	49.0
4 1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	48.5	97.0	0.308	48.5
5 1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6 1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7 OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8 2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	85.9	0.0857	9.59
9 1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	98.7	0.135	49.4
10 2,3,4,7,8-PeCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.149	49.7
11 1,2,3,4,7,8-HxCDF	2.69e5	1.25	NO	1.24	1.000	33.58	1.001	49.1	98.2	0.274	49.1
12 1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13 2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14 1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15 1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16 1,2,3,4,7,8,9-HpCDF	1.69e5	1.10	NO	1.28	1.000	38.87	1.000	46.6	93.2	0.350	46.6
17 OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18 13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.026	98.4	98.4	0.276	
19 13C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20 13C-1,2,3,4,7,8-HxCDD	3.36e5	1.24	NO	0.65	1.000	34.41	1.014	102	102	0.543	
21 13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.68	1.000	34.80	1.025	102	102	0.529	
23 13C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.54	1.000	38.31	1.129	100	100	0.557	



Dataset: Untitled

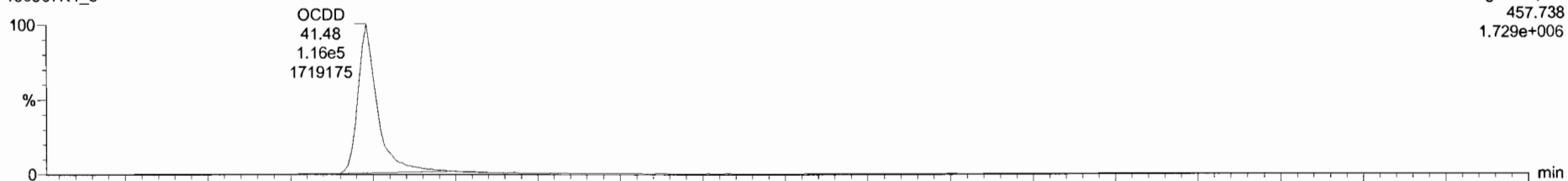
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Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

**OCDD**

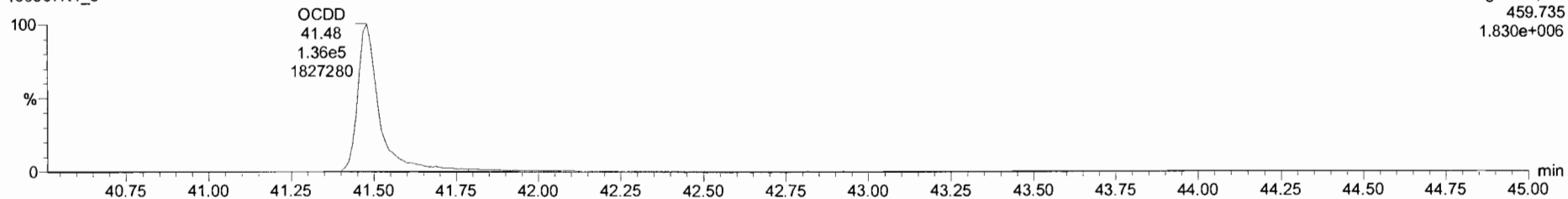
190507K1\_3

F5:Voltage SIR,EI+  
457.738  
1.729e+006



190507K1\_3

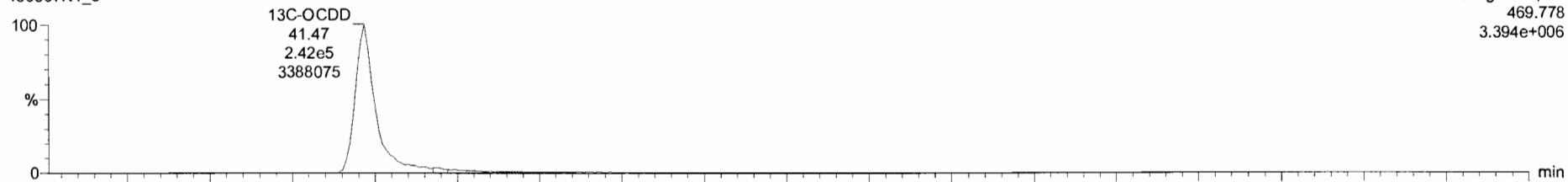
F5:Voltage SIR,EI+  
459.735  
1.830e+006



**13C-OCDD**

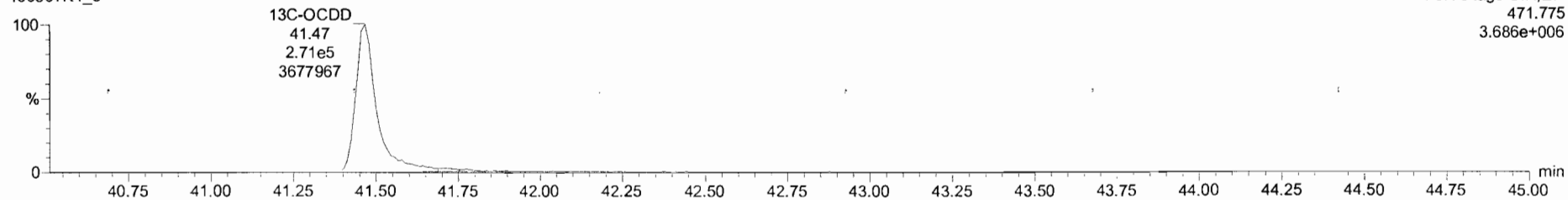
190507K1\_3

F5:Voltage SIR,EI+  
469.778  
3.394e+006



190507K1\_3

F5:Voltage SIR,EI+  
471.775  
3.686e+006



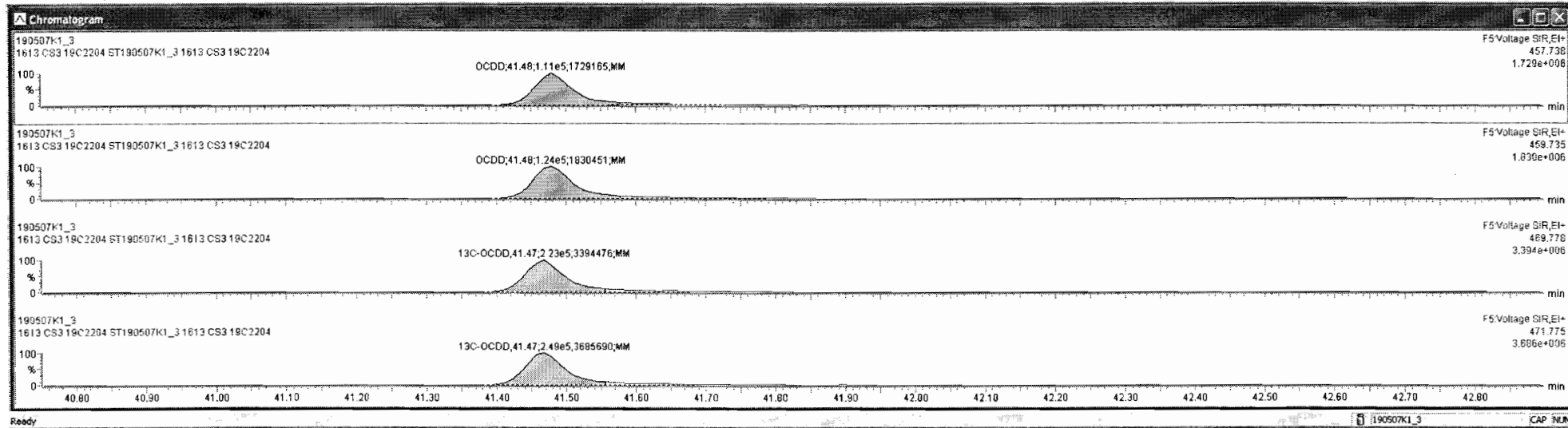


TargetLynx - 190507K1 - CRV.qld

File Edit View Display Processing Window Help

190507K1\_3 - ST190507K1\_3 1613 CS3 19C2204 - 1613 CS3 19C2204

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC	
1	2,3,7,8-TCDD	5.65e4	0.78	NO	0.92	1.000	26.36	1.001	9.97	96.7	0.0900	9.87
2	1,2,3,7,8-PeCDD	1.80e5	0.83	NO	0.90	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3	1,2,3,4,7,8-HxCDD	1.76e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	98.0	0.299	49.0
4	1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	48.5	97.0	0.306	48.5
5	1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6	1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7	OCDD	2.35e5	0.80	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8	2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0857	9.59
9	1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	98.7	0.135	49.4
10	2,3,4,7,8-PeCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	98.5	0.148	49.7
11	1,2,3,4,7,8-HxCDF	2.69e5	1.25	NO	1.24	1.000	33.56	1.001	49.1	98.2	0.274	49.1
12	1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.88	1.000	50.6	101	0.280	50.6
13	1,2,3,6,7,8-HxCDF	2.75e5	1.26	NO	1.16	1.000	34.27	1.001	51.0	102	0.287	51.0
14	1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15	1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16	1,2,3,4,7,8,9-HpCDF	1.89e5	1.10	NO	1.26	1.000	38.87	1.000	46.6	93.2	0.360	46.6
17	OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18	13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.026	98.4	96.4	0.276	
19	13C-1,2,3,7,8-PeCDD	4.47e5	0.81	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20	13C-1,2,3,4,7,8-HxCDD	3.36e5	1.24	NO	0.85	1.000	34.41	1.014	102	102	0.543	
21	13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.86	1.000	34.60	1.025	102	102	0.529	
23	13C-1,2,3,4,6,7,8-HpCDD	2.78e5	1.05	NO	0.54	1.000	38.31	1.129	100	100	0.557	

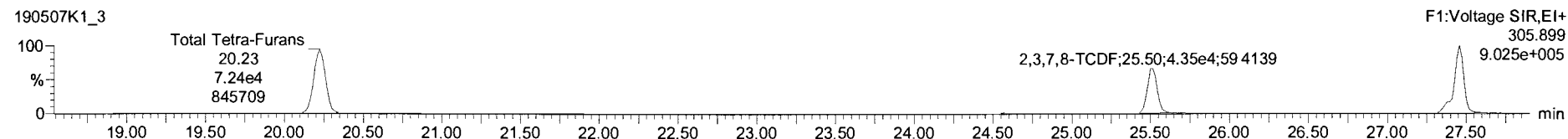


Dataset: Untitled

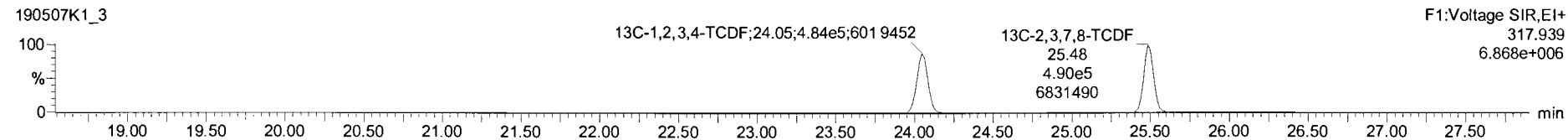
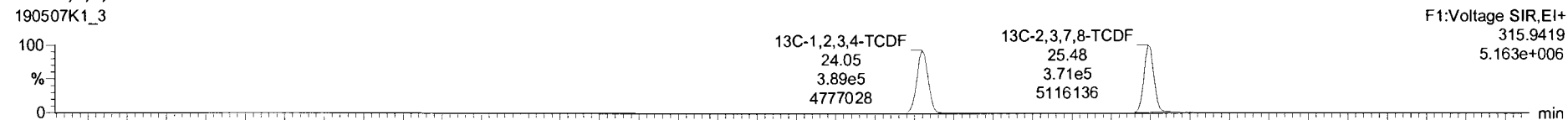
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

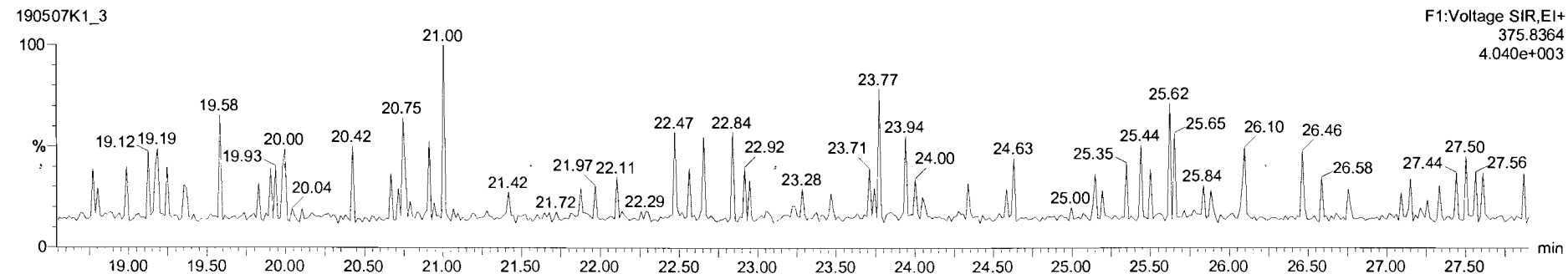
### 2,3,7,8-TCDF



### 13C-2,3,7,8-TCDF



### DPE1



Dataset: Untitled

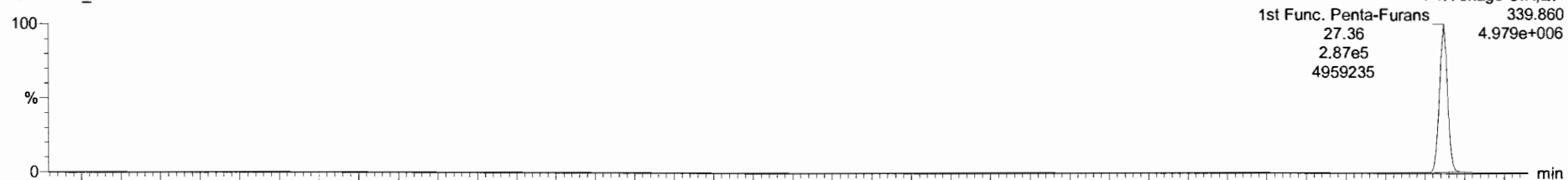
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

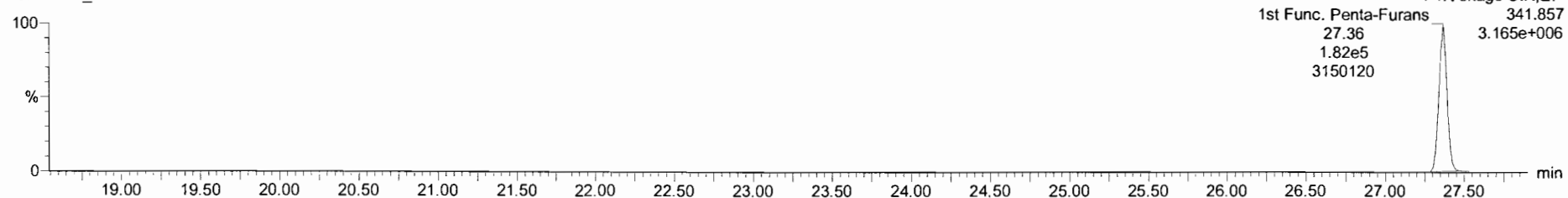
Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

1st Func. Penta-Furans

190507K1\_3

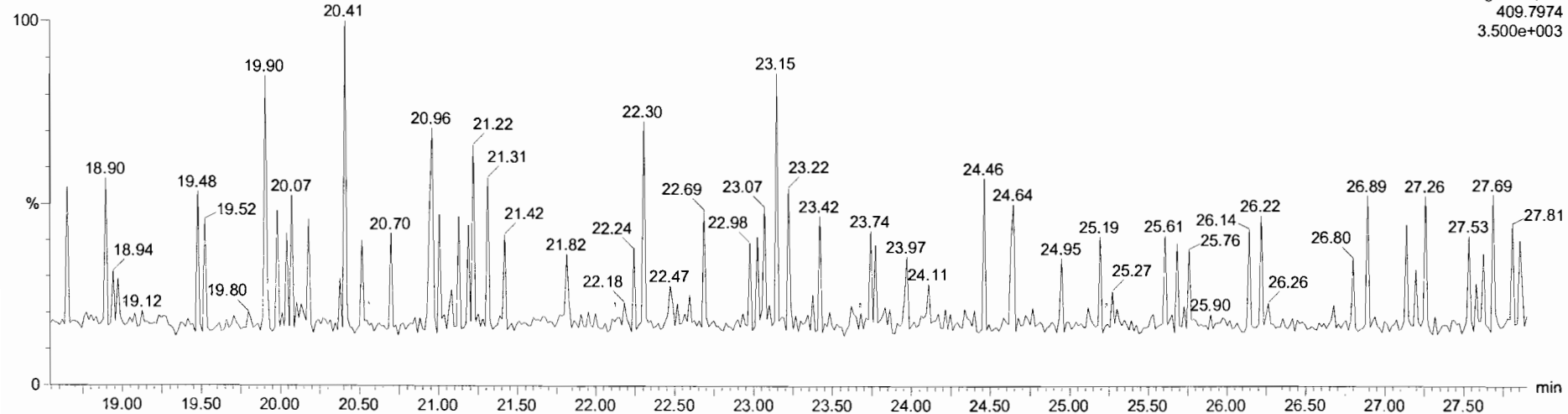


190507K1\_3



DPE6

190507K1\_3



Dataset: Untitled

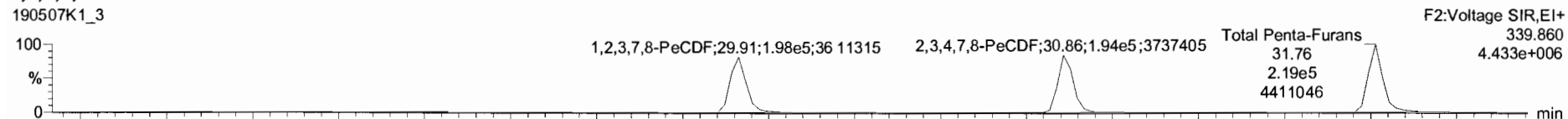
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

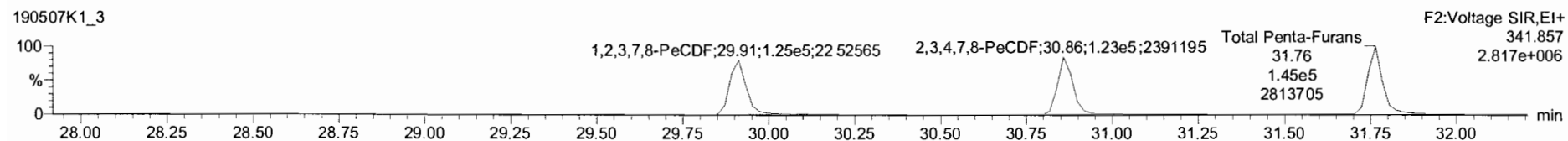
Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

### 1,2,3,7,8-PeCDF

190507K1\_3

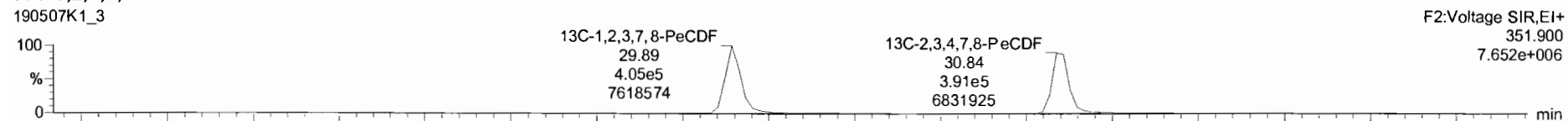


190507K1\_3

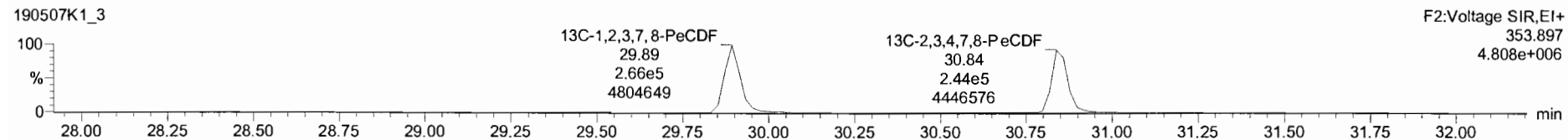


### 13C-1,2,3,7,8-PeCDF

190507K1\_3

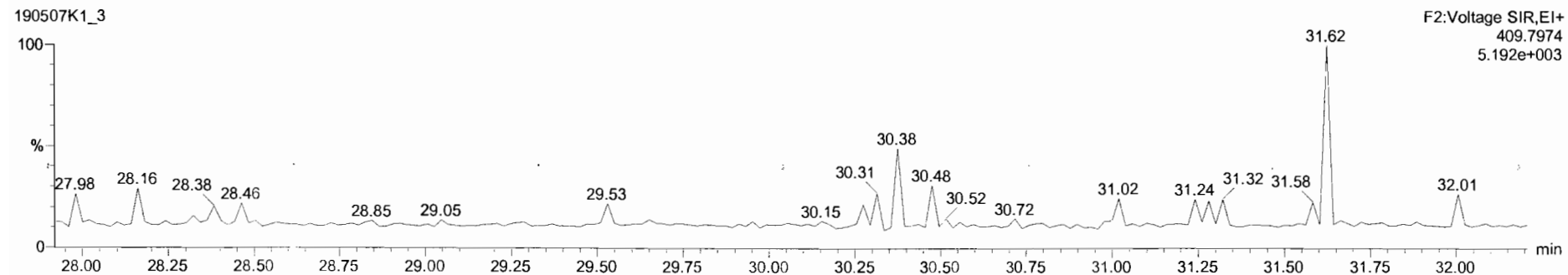


190507K1\_3



### DPE2

190507K1\_3



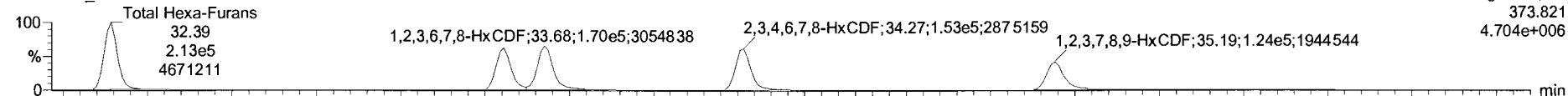
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

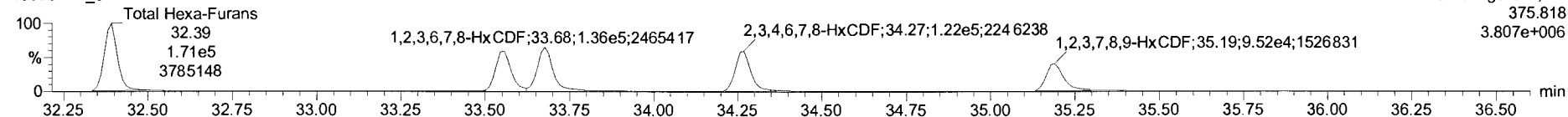
Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

**1,2,3,4,7,8-HxCDF**

190507K1\_3

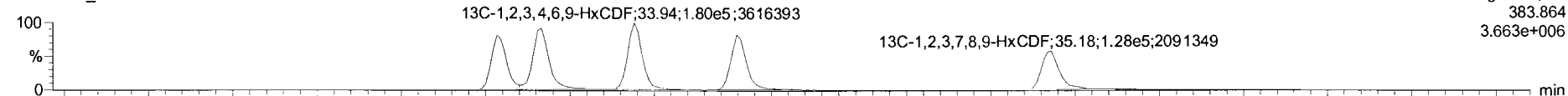


190507K1\_3

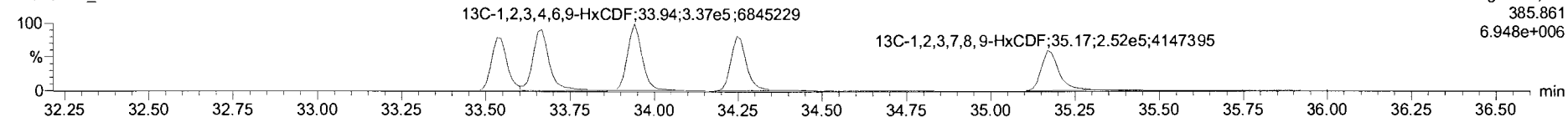


**13C-1,2,3,4,7,8-HxCDF**

190507K1\_3

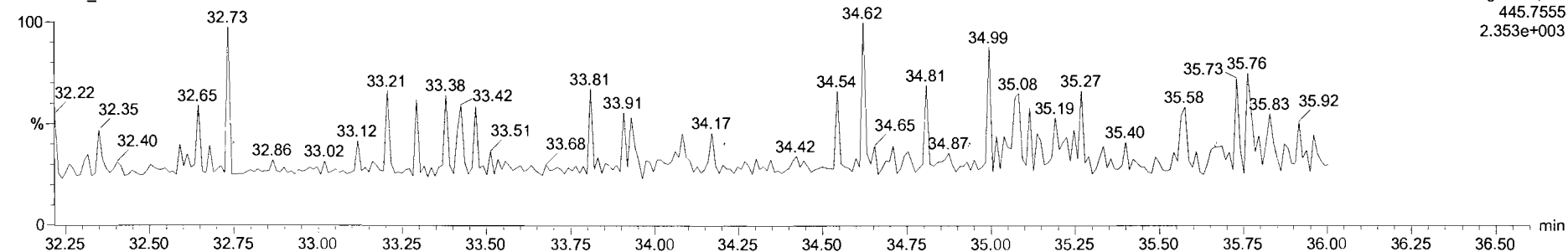


190507K1\_3



**DPE3**

190507K1\_3

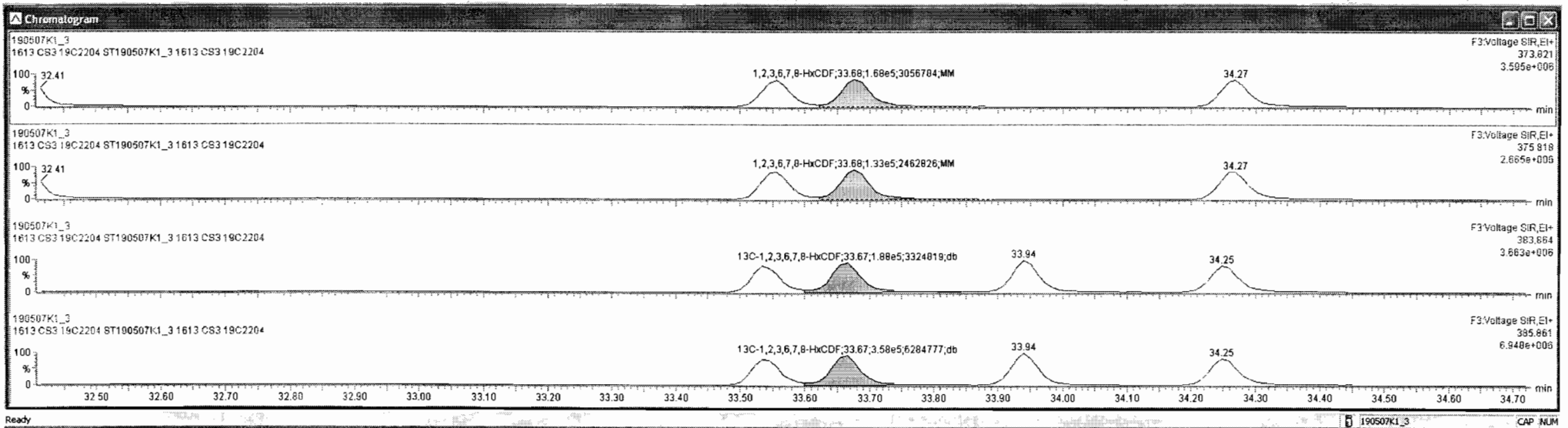


Targetlynx - 190507K1\_CRV.qld

File Edit View Display Processing Window Help

190507K1\_3 - ST 190507K1\_3 1613 CS3 19C2204 - 1613 CS3 19C2204

Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.85e4	0.78	NO	0.92	1.000	26.36	1.001	9.87	98.7	0.0900	9.87
2 1,2,3,7,8-PeCDD	1.80e5	0.63	NO	0.90	1.000	31.14	1.001	44.5	99.0	0.154	44.5
3 1,2,3,4,7,8-HxCDD	1.76e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	96.0	0.299	49.0
4 1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	48.5	97.0	0.306	48.5
5 1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.61	1.000	48.7	97.3	0.340	48.7
6 1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7 OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8 2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0857	9.59
9 1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	96.7	0.135	49.4
10 2,3,4,7,8-HxCDF	3.17e5	1.59	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.149	49.7
11 1,2,3,4,7,8-HxCDF	2.69e5	1.25	NO	1.24	1.000	33.56	1.001	49.1	98.2	0.274	49.1
12 1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13 2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14 1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15 1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16 1,2,3,4,7,8,9-HpCDF	1.69e5	1.10	NO	1.26	1.000	38.87	1.000	46.6	93.2	0.350	46.6
17 OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18 1,3C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.028	98.4	98.4	0.276	
19 1,3C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20 1,3C-1,2,3,4,7,8-HxCDD	3.36e5	1.24	NO	0.85	1.000	34.41	1.014	102	102	0.543	
21 1,3C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22 1,3C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.66	1.000	34.80	1.025	102	102	0.529	
23 1,3C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.54	1.000	38.31	1.129	100	100	0.557	

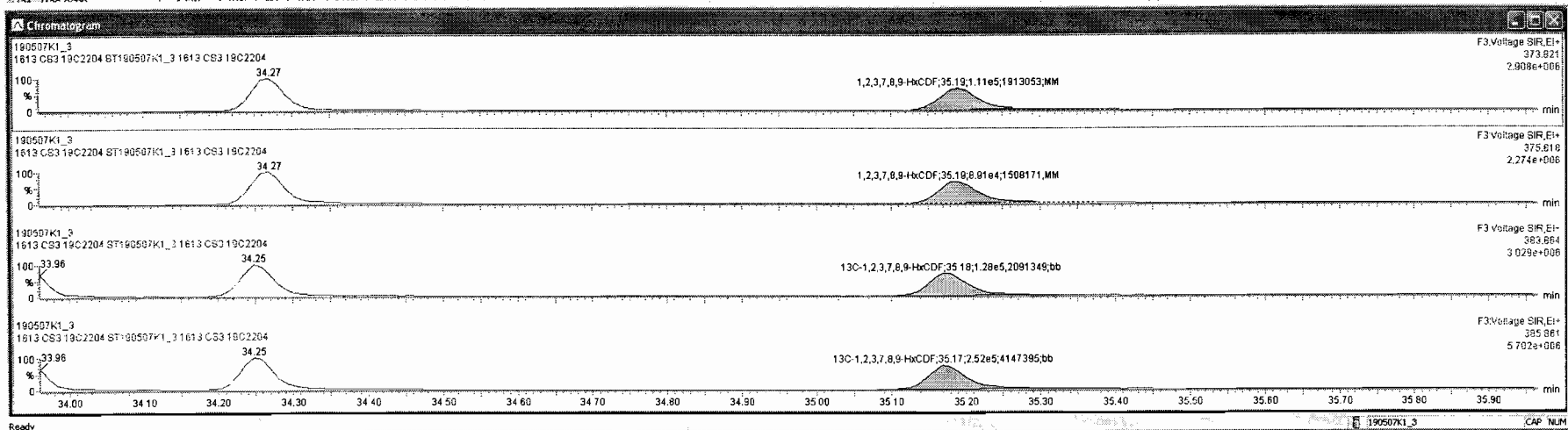


Target: ymx - 190507K1\_CRV.qld

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190507K1\_3 ST:190507K1\_3 1613 CS3 19C2204 1613 CS3 19C2204

Name	Resp	RA	NY	RRF	WtVol	RT	RR1	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.65e4	0.78	NO	0.92	1.000	26.36	1.001	9.87	98.7	0.0900	9.87
2 1,2,3,7,8-PeCDD	1.80e5	0.63	NO	0.90	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3 1,2,3,4,7,8-HxCDD	1.76e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	98.0	0.299	49.0
4 1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	46.5	97.0	0.308	46.5
5 1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6 1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7 OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8 2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0857	9.59
9 1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	98.7	0.135	49.4
10 2,3,4,7,8-PeCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.149	49.7
11 1,2,3,4,7,8-HxCDF	2.89e5	1.25	NO	1.24	1.000	33.58	1.001	49.1	98.2	0.274	49.1
12 1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13 2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14 1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15 1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16 1,2,3,4,7,8,9-HpCDF	1.89e5	1.10	NO	1.26	1.000	38.87	1.000	46.6	93.2	0.350	46.6
17 OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18 13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.026	98.4	98.4	0.276	
19 13C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20 13C-1,2,3,4,7,8-HxCDD	3.36e5	1.24	NO	0.65	1.000	34.41	1.014	102	102	0.543	
21 13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.66	1.000	34.80	1.025	102	102	0.529	
23 13C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.54	1.000	38.31	1.129	100	100	0.557	

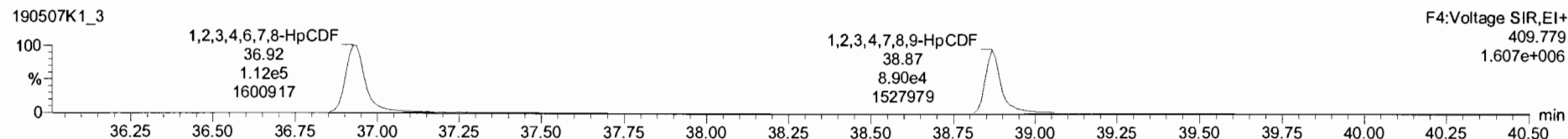
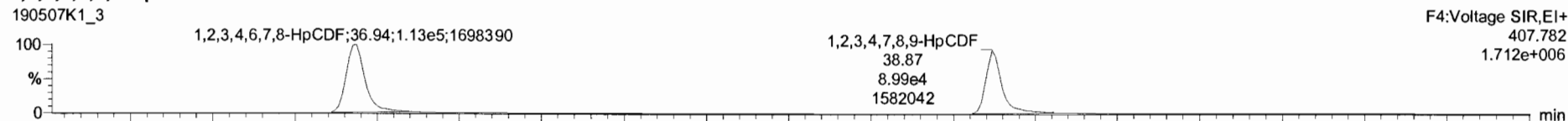


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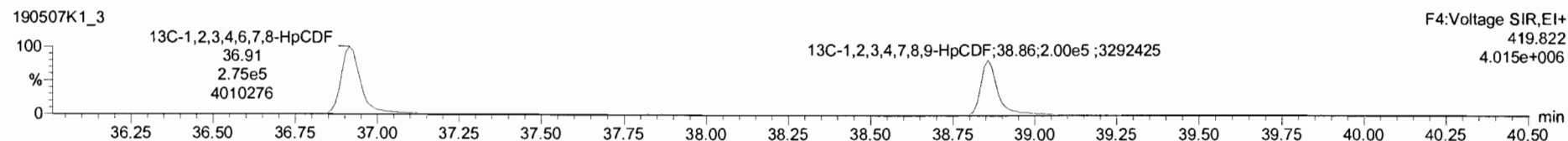
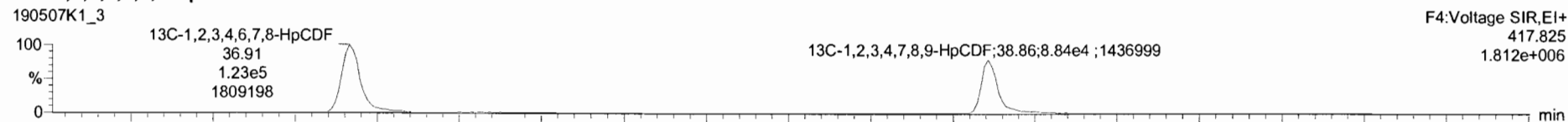
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

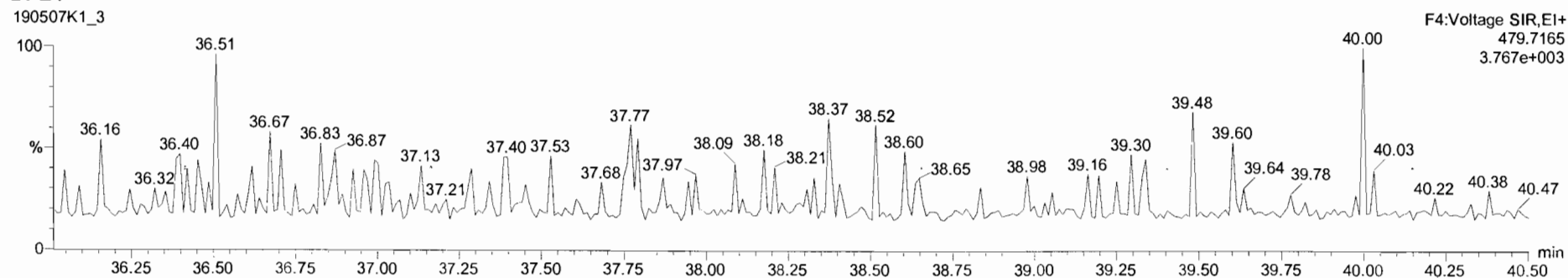
### 1,2,3,4,6,7,8-HpCDF



### 13C-1,2,3,4,6,7,8-HpCDF



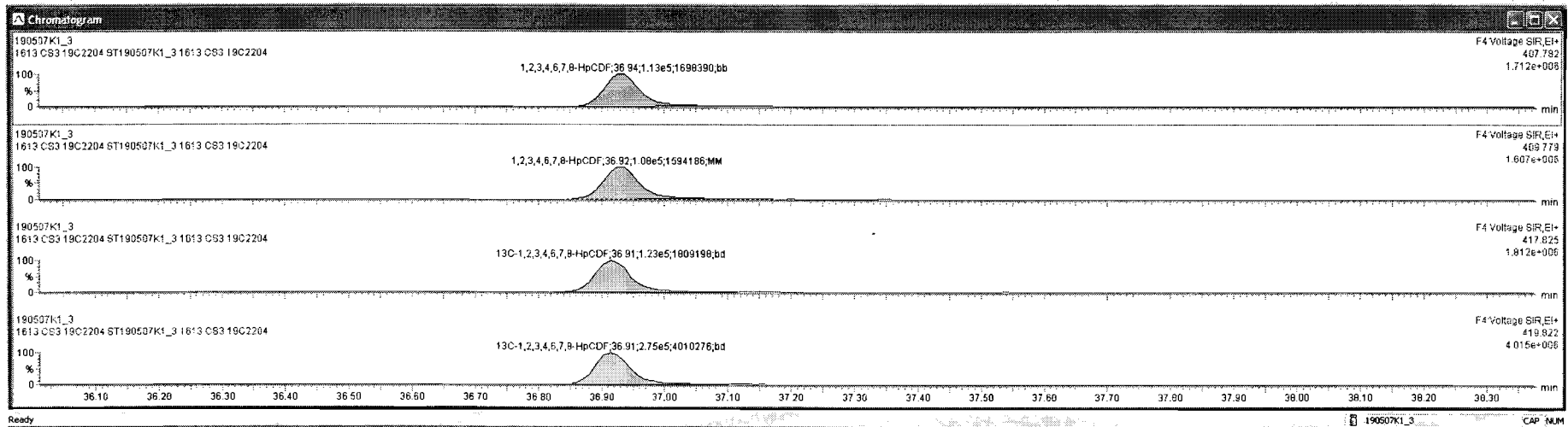
### DPE4





190507K1\_3-ST190507K1\_3\_1613 CS3 19C2204 - 1613 CS3 19C2204

ID	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.65e4	0.78	NO	0.92	1.000	26.36	1.001	9.87	98.7	0.0900	9.87
2	1,2,3,7,8-PeCDD	1.80e5	0.63	NO	0.90	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3	1,2,3,4,7,8-HxCDD	1.76e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	98.0	0.299	49.0
4	1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	48.5	97.0	0.308	48.5
5	1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.61	1.000	48.7	97.3	0.340	48.7
6	1,2,3,4,6,7,8-HxCDD	1.42e5	1.03	NO	1.03	1.000	36.32	1.000	50.1	100	0.364	50.1
7	OCDF	2.35e5	0.90	NO	0.97	1.000	41.46	1.000	103	103	0.327	103
8	2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0657	9.59
9	1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	98.7	0.135	49.4
10	2,3,4,7,8-PeCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.149	49.7
11	1,2,3,4,7,8-HxCDF	2.89e5	1.25	NO	1.24	1.000	33.96	1.001	49.1	98.2	0.274	49.1
12	1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13	2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14	1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15	1,2,3,4,6,7,8-HpCDF	2.22e5	1.05	NO	1.13	1.000	36.54	1.001	49.3	98.5	0.311	49.3
16	1,2,3,4,7,8,9-HpCDF	1.89e5	1.10	NO	1.26	1.000	38.67	1.000	46.6	93.2	0.350	46.6
17	OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18	13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.026	98.4	98.4	0.276	
19	13C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20	13C-1,2,3,4,7,8-HxCDD	3.36e5	1.24	NO	0.65	1.000	34.41	1.014	102	102	0.543	
21	13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.66	1.000	34.80	1.025	102	102	0.529	
23	13C-1,2,3,4,6,7,8-HpCDD	2.78e5	1.05	NO	0.54	1.000	36.31	1.129	100	100	0.557	

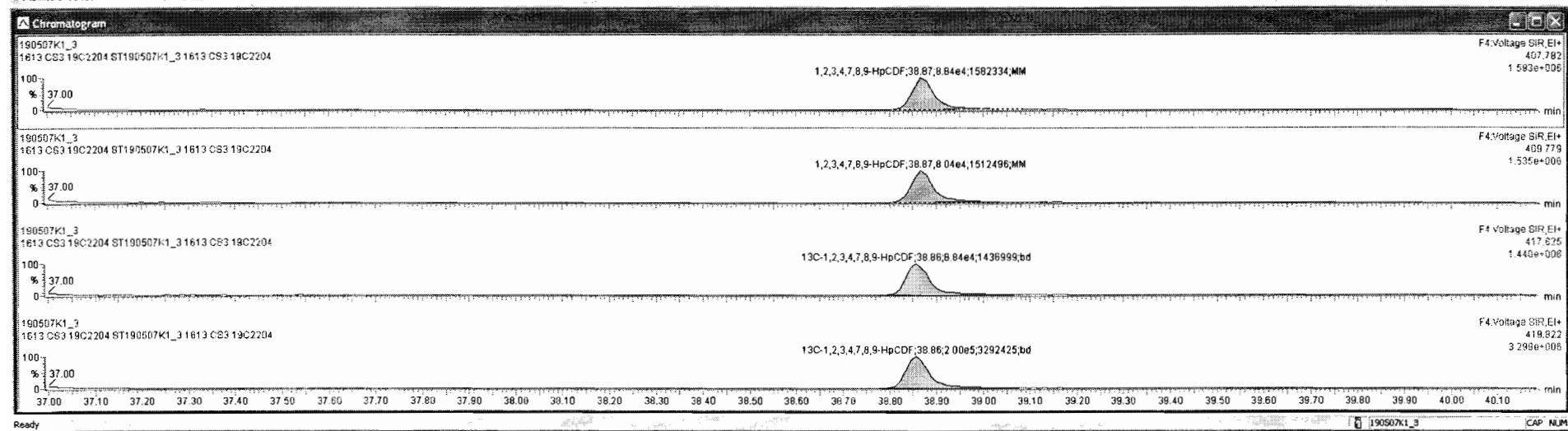


Target: ynx - 190507K1\_CRV.qid

File Edit View Display Processing Window Help

190507K1\_3 - ST190507K1\_3 1613 CS3 19C2204 - 1613 CS3 19C2204

#	Name	Resp	RA	nly	RRF	wtVol	RT	RR1	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.65e4	0.78	NO	0.92	1.000	26.36	1.001	9.87	96.7	0.0900	9.87
2	1,2,3,7,8-PeCDD	1.80e5	0.63	NO	0.90	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3	1,2,3,4,7,8-HxCDD	1.78e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	98.0	0.299	49.0
4	1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	48.5	97.0	0.308	48.5
5	1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6	1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7	OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8	2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.58	95.9	0.0857	9.58
9	1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	99.7	0.135	49.4
10	2,3,4,7,8-HxCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.149	49.7
11	1,2,3,4,7,8-HxCDF	2.89e5	1.25	NO	1.24	1.000	33.56	1.001	49.1	99.2	0.274	49.1
12	1,2,3,6,7,8-HxCDF	3.02e5	1.25	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13	2,3,4,6,7,8-HxCDF	2.75e5	1.25	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14	1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15	1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16	1,2,3,4,7,8,9-HpCDF	1.89e5	1.10	NO	1.26	1.000	38.97	1.000	46.6	93.2	0.350	46.6
17	OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18	13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.026	98.4	98.4	0.276	
19	13C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20	13C-1,2,3,4,7,8-HxCDD	3.36e5	1.24	NO	0.65	1.000	34.41	1.014	102	102	0.543	
21	13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.66	1.000	34.80	1.025	102	102	0.529	
23	13C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.54	1.000	38.31	1.129	100	100	0.557	



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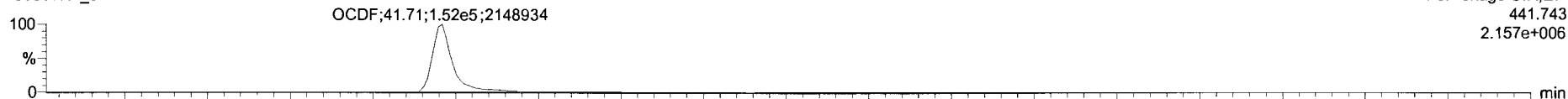
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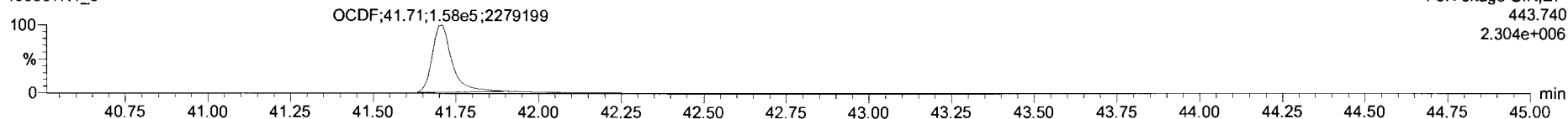
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**OCDF**

190507K1\_3

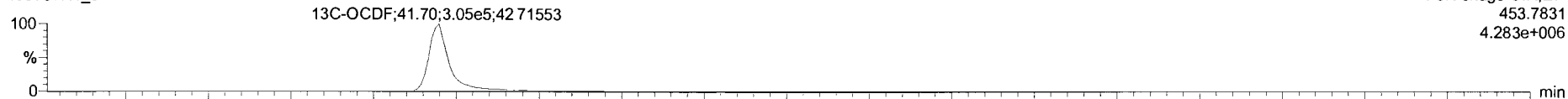


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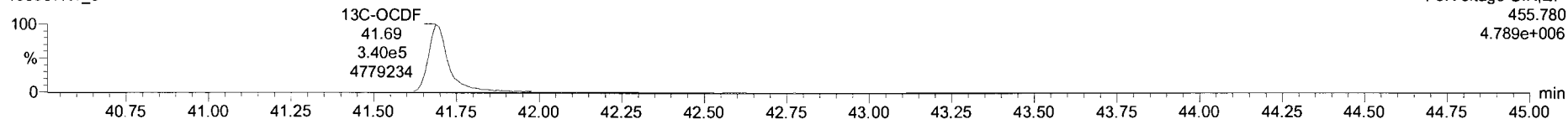


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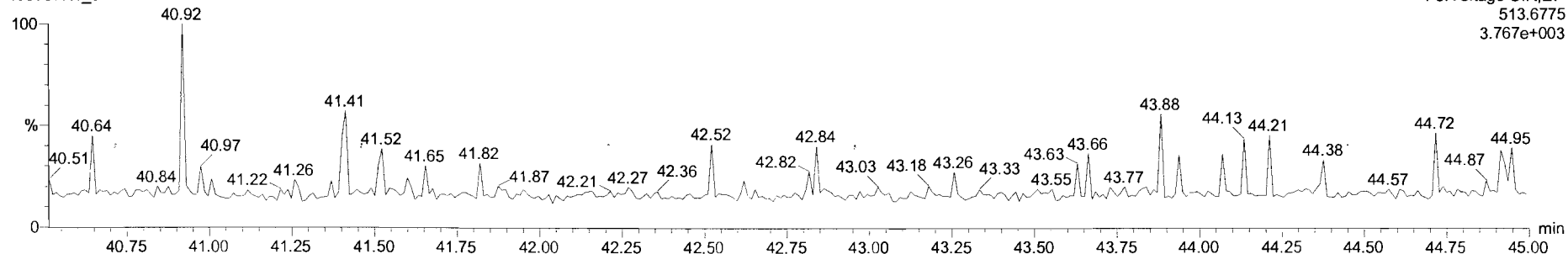


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**DPE5**

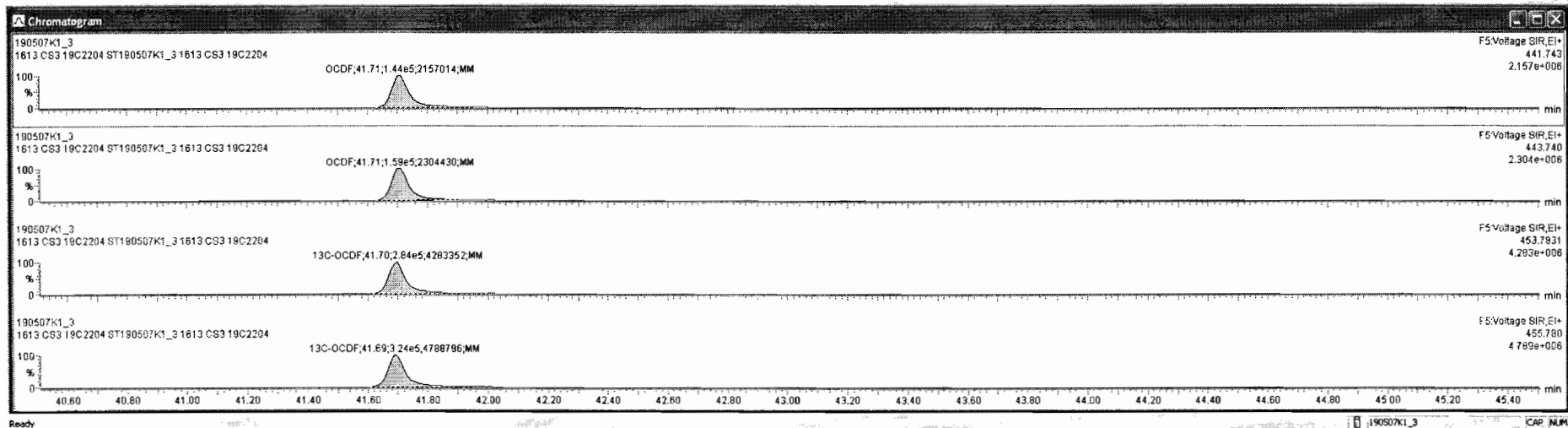
190507K1\_3



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190507K1\_3 - ST190507K1\_3 1613 CS3 19C2204 - 1613 CS3 19C2204

Name	Resp	RA	DV	RRF	WtWol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.65e4	0.78	NO	0.92	1.000	26.36	1.001	9.97	99.7	0.0900	9.97
2 1,2,3,7,8-PeCDD	1.89e5	0.63	NO	0.90	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3 1,2,3,4,7,8-HxCDD	1.76e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	98.0	0.299	49.0
4 1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	48.5	97.0	0.308	48.5
5 1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6 1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	39.32	1.000	50.1	100	0.364	50.1
7 OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8 2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0857	9.59
9 1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	99.7	0.135	49.4
10 2,3,4,7,8-PeCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.149	49.7
11 1,2,3,4,7,8-HxCDF	2.89e5	1.25	NO	1.24	1.000	33.56	1.001	49.1	99.2	0.274	49.1
12 1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13 2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14 1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	99.2	0.443	49.1
15 1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	99.5	0.311	49.3
16 1,2,3,4,7,8,9-HpCDF	1.69e5	1.10	NO	1.26	1.000	38.67	1.000	46.8	93.2	0.350	46.8
17 OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	80.4	80.4	0.372	80.4
18 13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.026	99.4	99.4	0.276	
19 13C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20 13C-1,2,3,4,7,8-HxCDD	3.36e5	1.24	NO	0.85	1.000	34.41	1.014	102	102	0.543	
21 13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.86	1.000	34.80	1.025	102	102	0.529	
23 13C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.54	1.000	38.31	1.129	100	100	0.557	

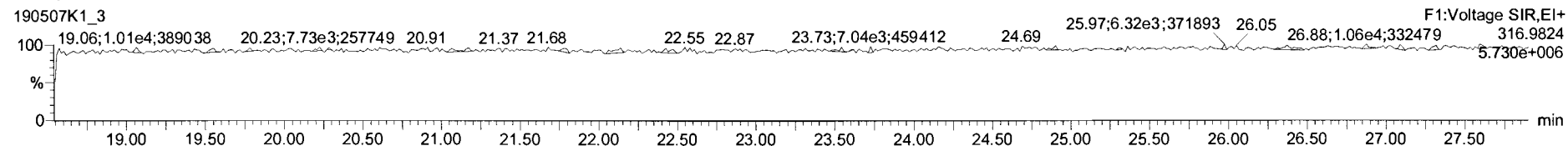


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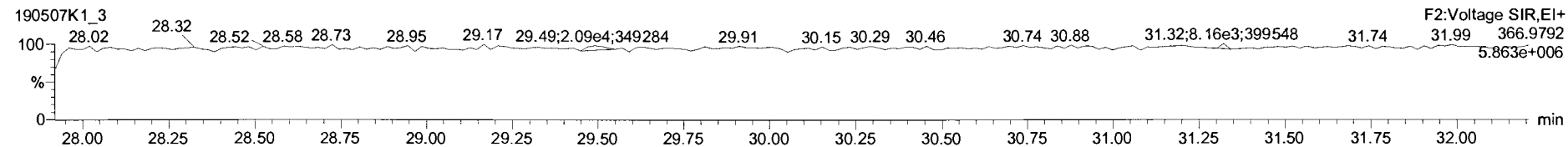
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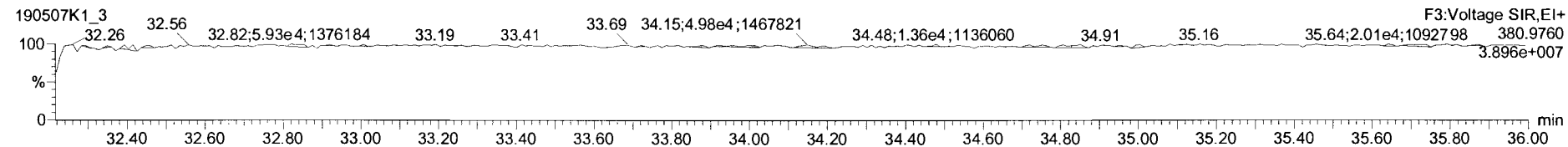
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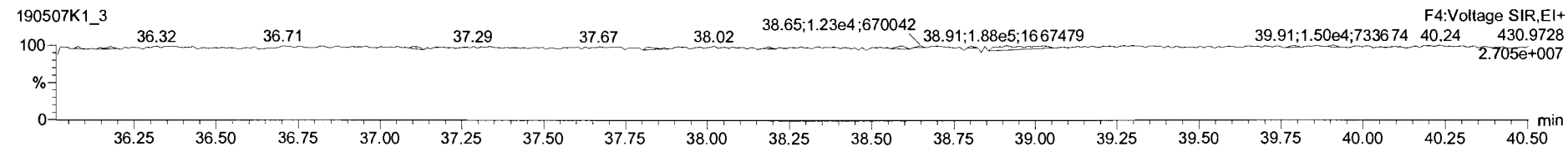
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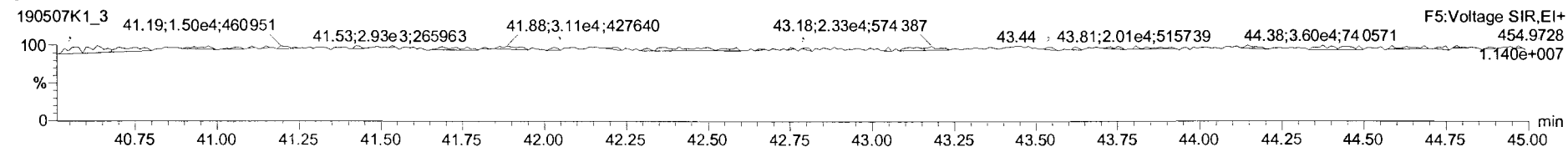
**PFK3**



**PFK4**



**PFK5**



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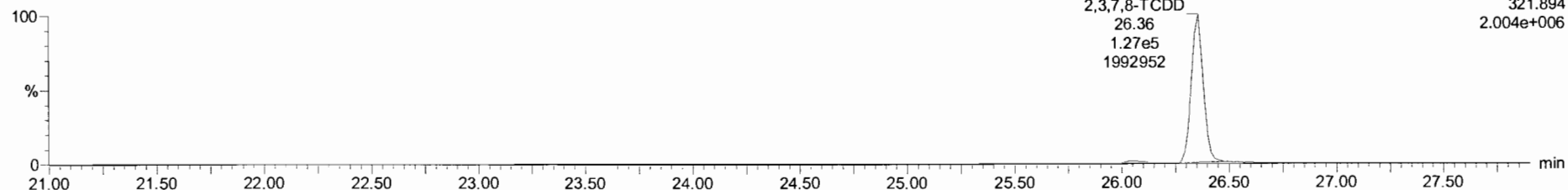
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### 2,3,7,8-TCDD

190507K1\_6



190507K1\_6

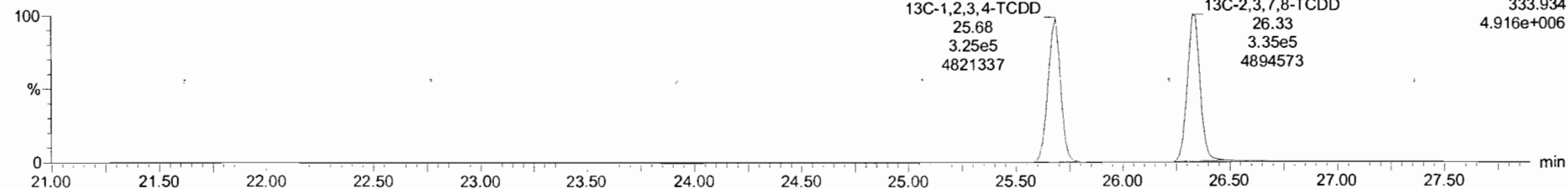


### 13C-2,3,7,8-TCDD

190507K1\_6



190507K1\_6



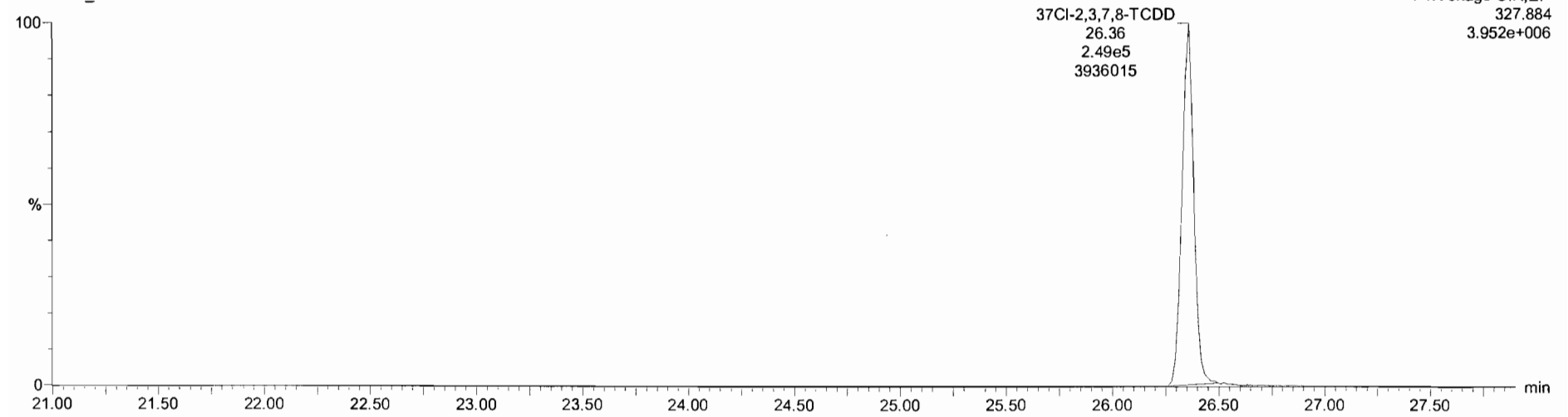
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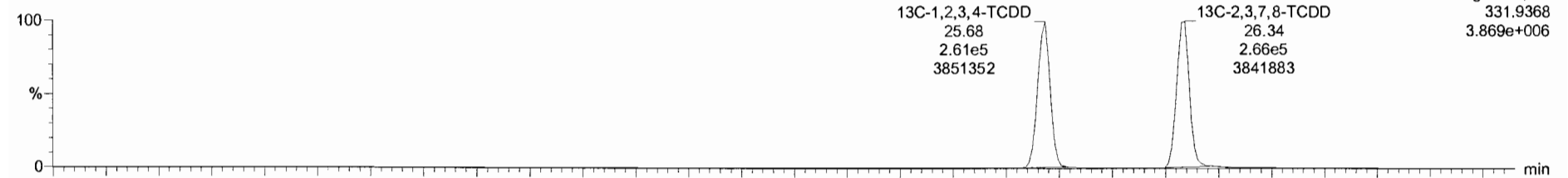
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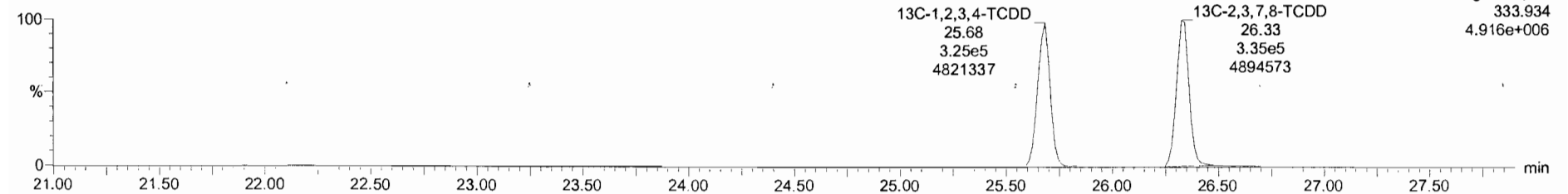


**13C-1,2,3,4-TCDD**

190507K1\_6



190507K1\_6



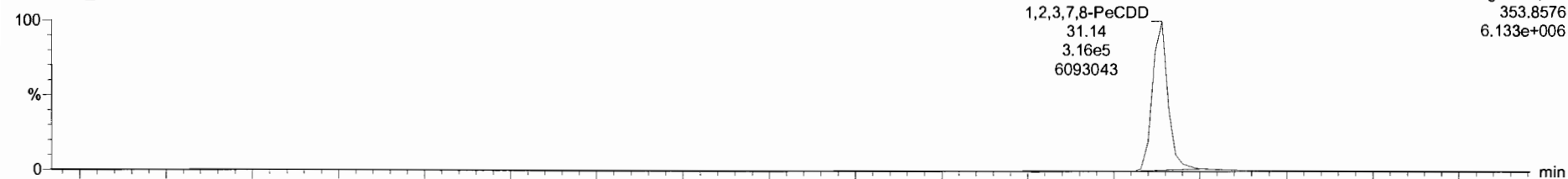
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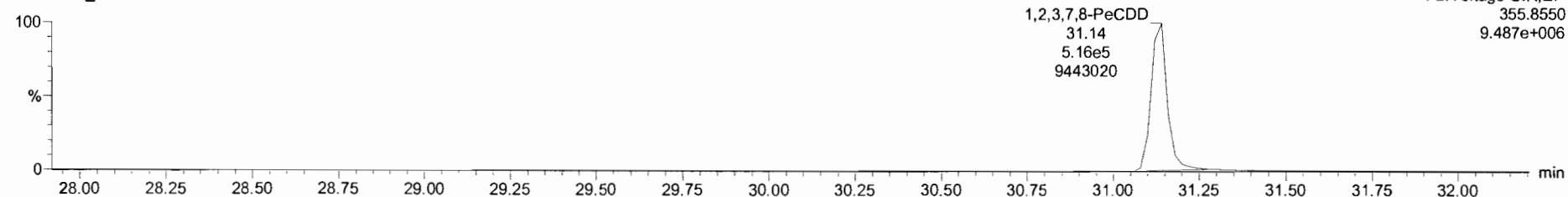
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**1,2,3,7,8-PeCDD**

190507K1\_6

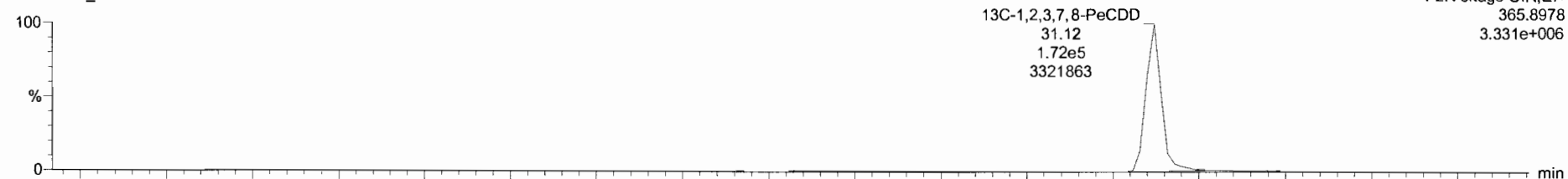


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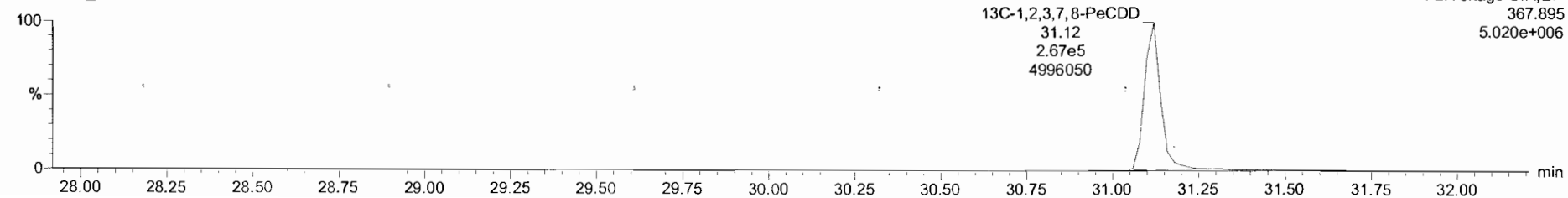


**13C-1,2,3,7,8-PeCDD**

190507K1\_6



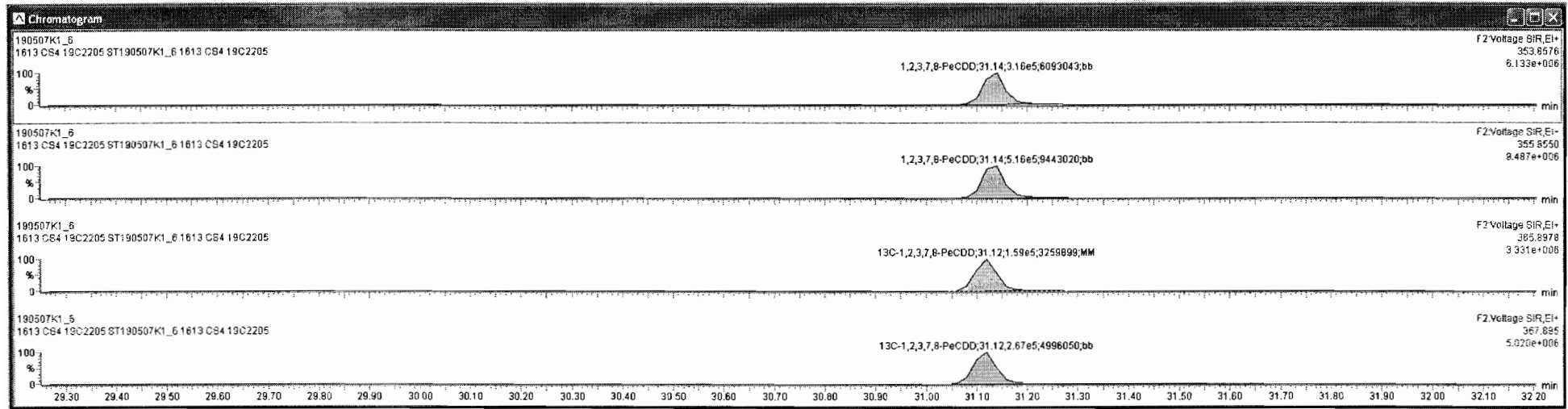
190507K1\_6





190507K1\_6 - ST190507K1\_6 1613 CS4 19C2205 - 1613 CS4 19C2205

Name	Resp	RA	n/y	PRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.26e5	0.78	NO	0.92	1.000	26.36	1.001	40.7	102	0.0876	40.7
2 1,2,3,7,8-PeCDD	8.32e5	0.61	NO	0.90	1.000	31.14	1.001	216	198	0.152	216
3 1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.366	210
4 1,2,3,6,7,8-HxCDD	7.88e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.367	211
5 1,2,3,7,8,9-HxCDD	6.68e5	1.22	NO	0.97	1.000	34.80	1.000	204	102	0.434	204
6 1,2,3,6,7,8-HpCDD	5.83e5	1.03	NO	1.03	1.000	38.31	1.000	194	97.0	0.503	194
7 OCDD	9.61e5	0.89	NO	0.97	1.000	41.47	1.000	410	102	0.534	410
8 2,3,7,8-TCDF	3.18e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0721	42.0
9 1,2,3,7,8-PeCDF	1.34e6	1.63	NO	0.87	1.000	29.89	1.000	214	107	0.142	214
10 2,3,4,7,8-PeCDF	1.34e6	1.58	NO	1.00	1.000	30.86	1.001	214	107	0.124	214
11 1,2,3,4,7,8-HxCDF	1.10e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.310	211
12 1,2,3,6,7,8-HxCDF	1.18e6	1.23	NO	1.10	1.000	33.67	1.000	211	106	0.306	211
13 2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.16	1.000	34.26	1.001	216	108	0.314	216
14 1,2,3,7,8,9-HxCDF	8.63e5	1.25	NO	1.07	1.000	35.18	1.001	221	110	0.483	221
15 1,2,3,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	208	104	0.435	208
16 1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.86	1.000	217	109	0.507	217
17 OCDF	1.21e6	0.90	NO	1.10	1.000	41.70	1.000	378	94.5	0.484	378
18 13C-2,3,7,8-TCDD	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.223	
19 13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.303	
20 13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.65	1.000	34.40	1.014	98.5	98.5	0.789	
21 13C-1,2,3,6,7,8-HxCDD	3.86e5	1.28	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.656	
22 13C-1,2,3,7,8,9-HxCDD	3.37e5	1.40	NO	0.66	1.000	34.78	1.025	100	100	0.789	
23 13C-1,2,3,4,6,7,8-HpCDD	2.93e5	1.05	NO	0.54	1.000	38.30	1.129	106	106	0.468	



Dataset: Untitled

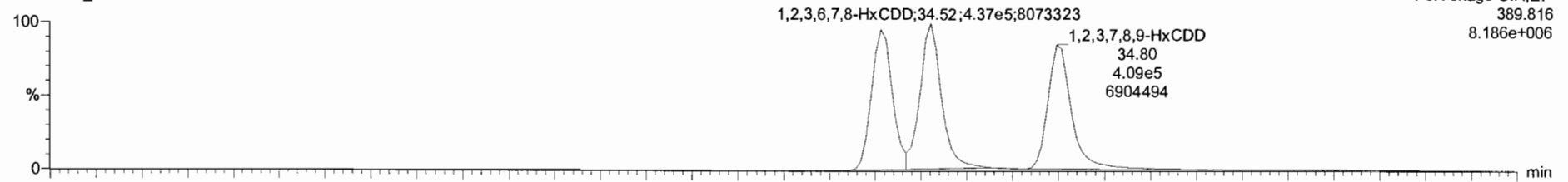
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_6, Date: 07-May-2019, Time: 14:39:24, ID: ST190507K1\_6 1613 CS4 19C2205, Description: 1613 CS4 19C2205

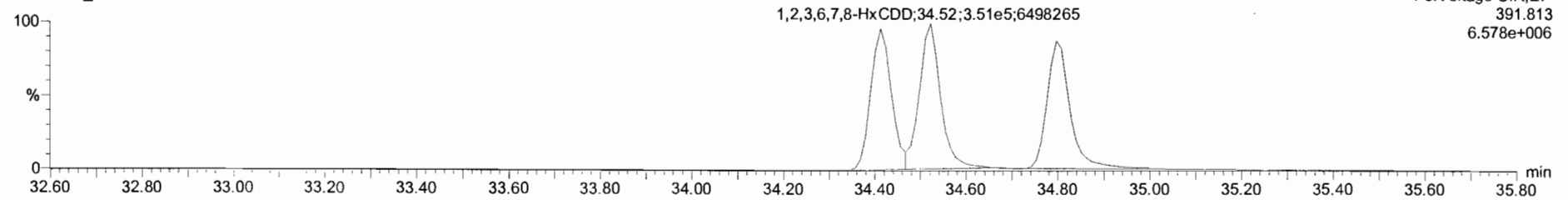
**1,2,3,4,7,8-HxCDD**

190507K1\_6



F3: Voltage SIR, EI+  
389.816  
8.186e+006

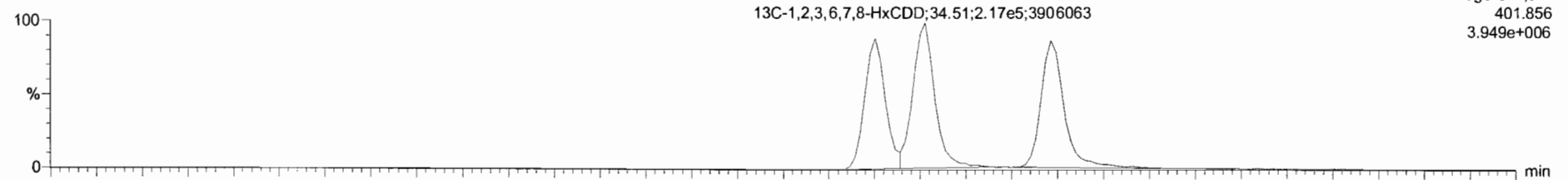
190507K1\_6



F3: Voltage SIR, EI+  
391.813  
6.578e+006

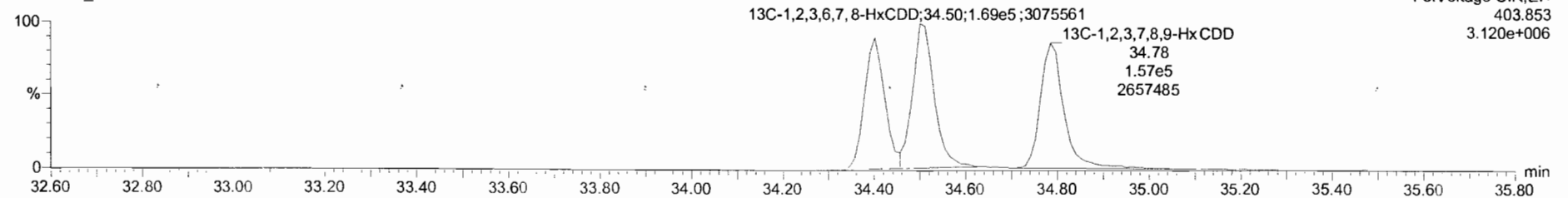
**13C-1,2,3,4,7,8-HxCDD**

190507K1\_6



F3: Voltage SIR, EI+  
401.856  
3.949e+006

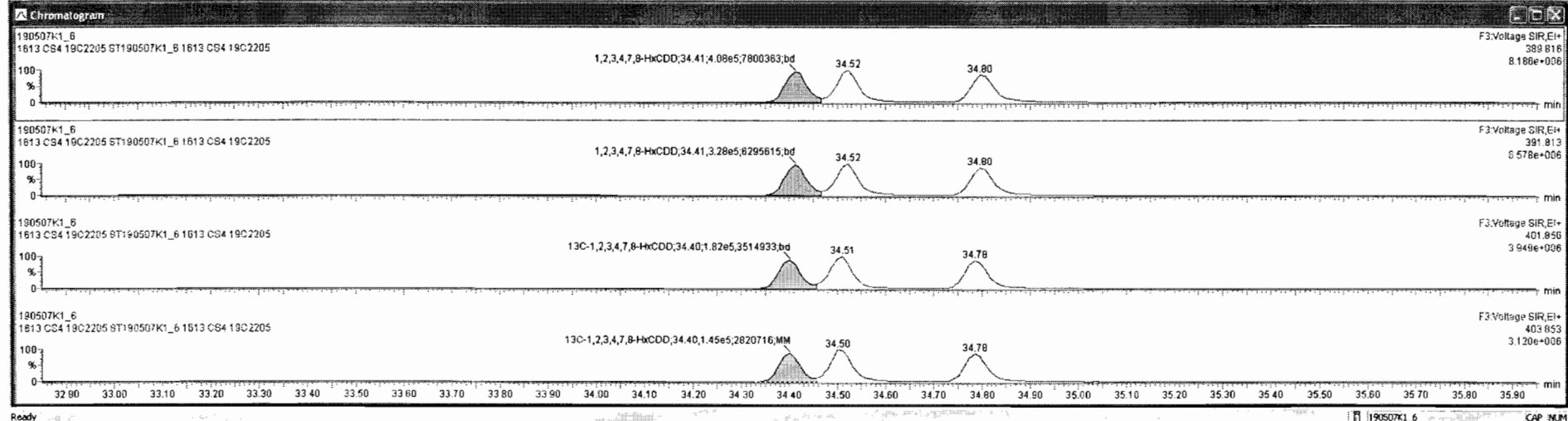
190507K1\_6



F3: Voltage SIR, EI+  
403.853  
3.120e+006

190507K1\_6 - ST190507K1\_6 1613 CS4 19C2205 - 1613 CS4 19C2205

Name	Resp	RA	nA	RRF	wAval	RT	RRT	Conc.	%Rec	DL	EMPC	
1	2,3,7,8-TCDD	2.26e5	0.78	NO	0.92	1.000	26.36	1.001	40.7	102	0.0676	40.7
2	1,2,3,7,8-PeCDD	8.32e5	0.61	NO	0.90	1.000	31.14	1.001	216	108	0.152	216
3	1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.366	210
4	1,2,3,6,7,8-HxCDD	7.88e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.367	211
5	1,2,3,7,8,9-HxCDD	6.68e5	1.22	NO	0.97	1.000	34.80	1.000	204	102	0.434	204
6	1,2,3,4,6,7,8-HpCDD	5.83e5	1.03	NO	1.03	1.000	38.31	1.000	194	97.0	0.503	194
7	OCDD	9.61e5	0.89	NO	0.97	1.000	41.47	1.000	410	102	0.534	410
8	2,3,7,8-TCDF	3.18e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0721	42.0
9	1,2,3,7,8-PeCDF	1.34e6	1.63	NO	0.97	1.000	29.89	1.000	214	107	0.142	214
10	2,3,4,7,8-PeCDF	1.34e6	1.58	NO	1.00	1.000	30.66	1.001	214	107	0.124	214
11	1,2,3,4,7,8-HxCDF	1.10e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.310	211
12	1,2,3,6,7,8-HxCDF	1.18e6	1.23	NO	1.10	1.000	33.67	1.000	211	106	0.306	211
13	2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.18	1.000	34.26	1.001	216	108	0.314	216
14	1,2,3,7,8,9-HxCDF	8.63e5	1.25	NO	1.07	1.000	35.18	1.001	221	110	0.483	221
15	1,2,3,4,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	208	104	0.435	208
16	1,2,3,4,7,8,9-HpCDF	7.13e5	1.06	NO	1.26	1.000	38.88	1.000	217	109	0.507	217
17	OCDF	1.21e6	0.90	NO	1.10	1.000	41.70	1.000	378	94.5	0.464	378
18	13C-2,3,7,8-TCDD	5.01e5	0.78	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.223	
19	13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.303	
20	13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.65	1.000	34.40	1.014	99.5	99.5	0.789	
21	13C-1,2,3,6,7,8-HxCDD	3.86e5	1.26	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.656	
22	13C-1,2,3,7,8,9-HxCDD	3.37e5	1.40	NO	0.66	1.000	34.78	1.025	100	100	0.769	
23	13C-1,2,3,4,6,7,8-HpCDD	2.93e5	1.05	NO	0.54	1.000	36.30	1.129	106	106	0.488	

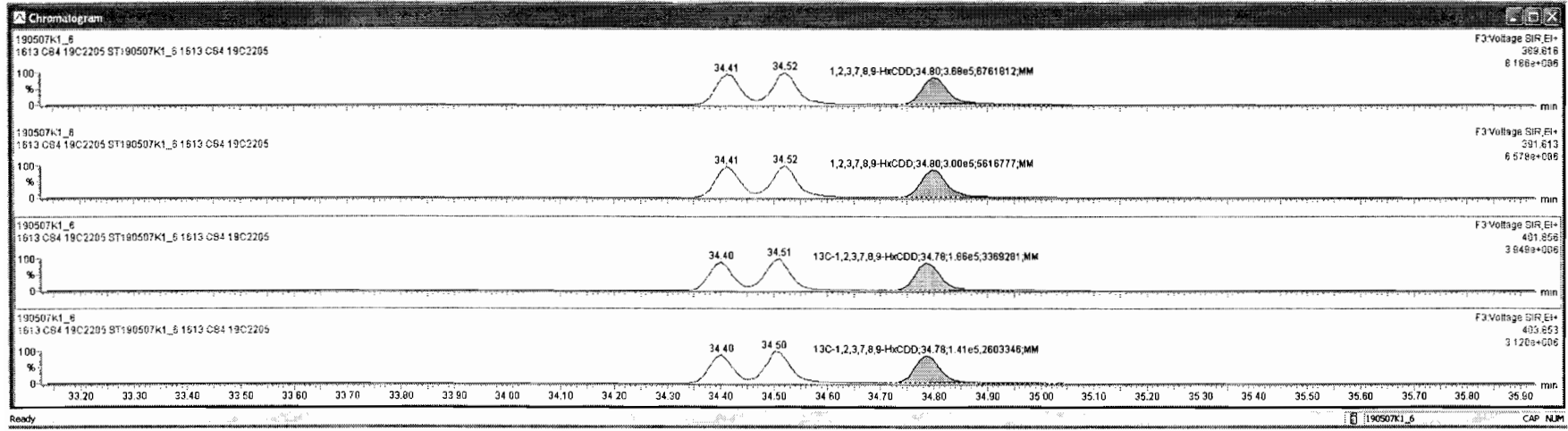


TargetLynx - 190507K1\_CRY.qld

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190507K1\_6 - ST190507K1\_6 1613 CS4 19C2205 - 1613 CS4 19C2205

SL	Name	Resp	RA	inj	RRF	wtVoi	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.26e5	0.78	NO	0.92	1.000	26.36	1.001	40.7	102	0.0730	40.7
2	1,2,3,7,8-PeCDD	8.32e5	0.61	NO	0.90	1.000	31.14	1.001	216	108	0.127	216
3	1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.305	210
4	1,2,3,6,7,8-HxCDD	7.89e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.306	211
5	1,2,3,7,8,9-HxCDD	8.89e5	1.22	NO	0.98	1.000	34.80	1.000	208	105	0.356	208
6	1,2,3,4,6,7,8-HpCDD	5.83e5	1.03	NO	1.03	1.000	38.31	1.000	194	97.0	0.419	194
7	OCDD	9.61e5	0.80	NO	0.97	1.000	41.47	1.000	410	102	0.445	410
8	2,3,7,8-TCDF	3.18e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0601	42.0
9	1,2,3,7,8-PeCDF	1.34e6	1.63	NO	0.97	1.000	29.89	1.000	214	107	0.118	214
10	2,3,4,7,8-PeCDF	1.34e6	1.58	NO	1.00	1.000	30.86	1.001	214	107	0.103	214
11	1,2,3,4,7,8-HxCDF	1.10e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.259	211
12	1,2,3,6,7,8-HxCDF	1.18e6	1.23	NO	1.10	1.000	33.67	1.000	211	106	0.255	211
13	2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.18	1.000	34.26	1.001	216	108	0.262	216
14	1,2,3,7,8,9-HxCDF	8.63e5	1.25	NO	1.07	1.000	35.18	1.001	221	110	0.402	221
15	1,2,3,4,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	208	104	0.363	208
16	1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.86	1.000	217	109	0.423	217
17	OCDF	1.21e6	0.80	NO	1.10	1.000	41.70	1.000	378	94.5	0.387	378
18	13C-2,3,7,8-TCDD	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.186	
19	13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.253	
20	13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.65	1.000	34.40	1.014	99.5	99.5	0.657	
21	13C-1,2,3,6,7,8-HxCDD	3.86e5	1.28	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.547	
22	13C-1,2,3,7,8,9-HxCDD	3.27e5	1.32	NO	0.66	1.000	34.78	1.025	97.2	97.2	0.644	
23	13C-1,2,3,4,6,7,8-HpCDD	2.93e5	1.05	NO	0.54	1.000	38.30	1.128	106	106	0.390	



Dataset: Untitled

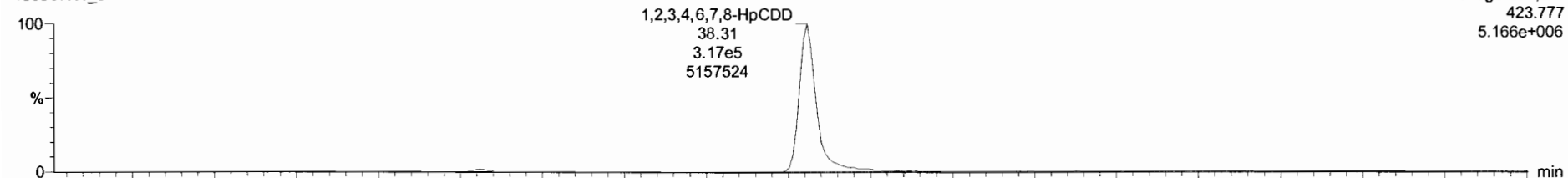
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

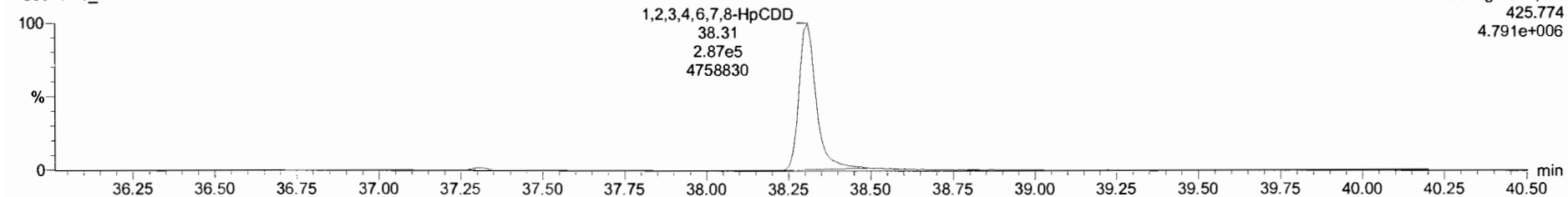
Name: 190507K1\_6, Date: 07-May-2019, Time: 14:39:24, ID: ST190507K1\_6 1613 CS4 19C2205, Description: 1613 CS4 19C2205

**1,2,3,4,6,7,8-HpCDD**

190507K1\_6

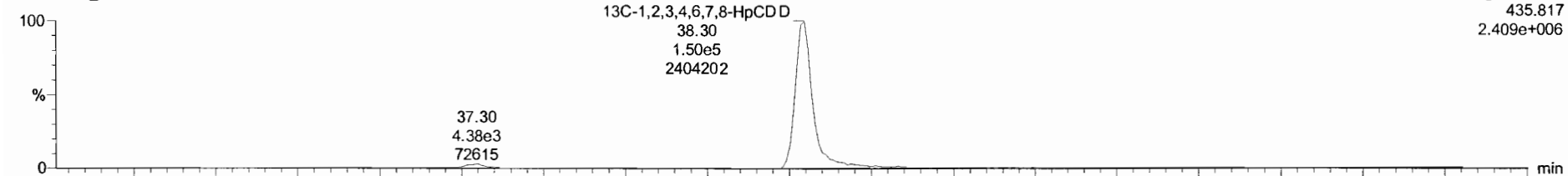


190507K1\_6

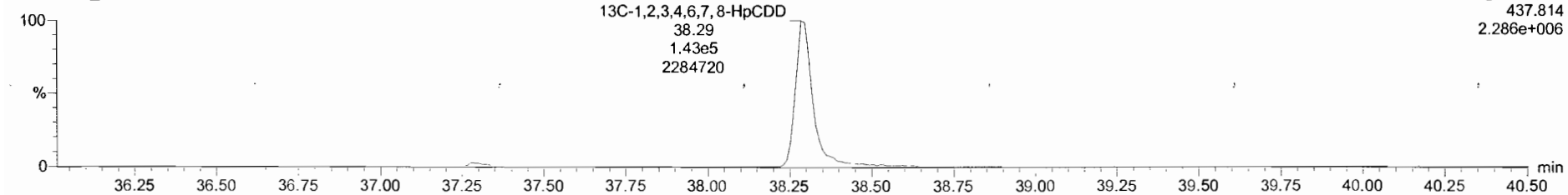


**13C-1,2,3,4,6,7,8-HpCDD**

190507K1\_6



190507K1\_6

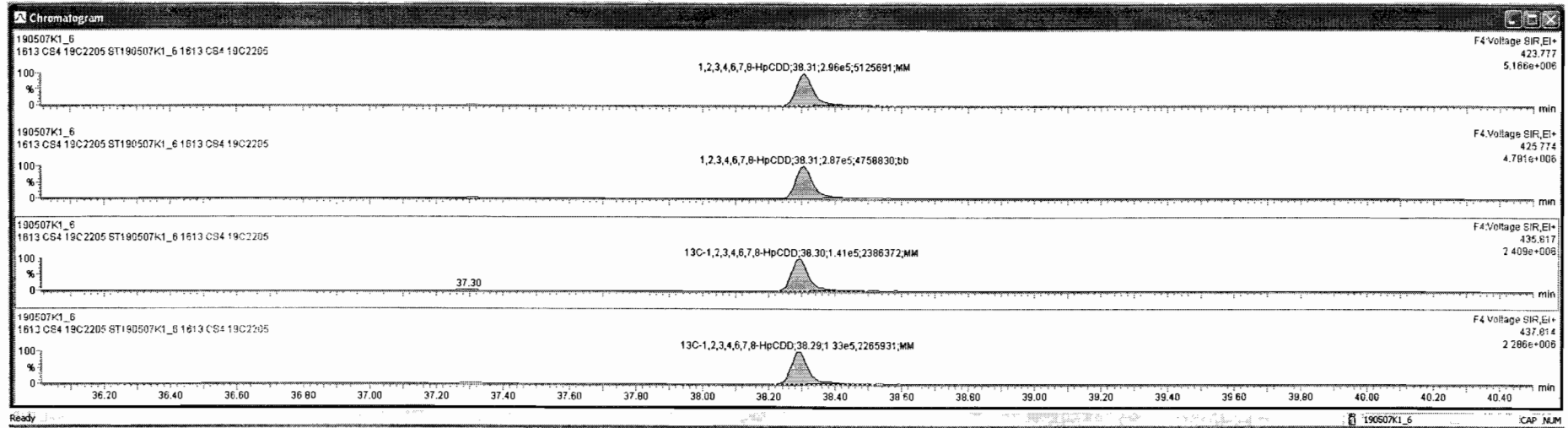


TargetLynx 190507K1\_6.DRV.qld

File Edit View Display Processing Window Help

190507K1\_6 - ST190507K1\_6 1613 CS4 19C2205 - 1613 CS4 19C2205

Name	Resp	RA	riy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.26e5	0.78	NO	0.92	1.000	26.36	1.001	40.7	102	0.0730	40.7
2 1,2,3,7,8-PeCDD	8.32e5	0.61	NO	0.90	1.000	31.14	1.001	216	108	0.127	216
3 1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.305	210
4 1,2,3,6,7,8-HxCDD	7.88e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.306	211
5 1,2,3,7,8,9-HxCDD	6.68e5	1.22	NO	0.98	1.000	34.80	1.000	209	105	0.356	209
6 1,2,3,4,6,7,8-HpCDD	5.29e5	1.03	NO	1.04	1.000	38.31	1.000	205	102	0.423	205
7 OCDD	9.61e5	0.90	NO	0.97	1.000	41.47	1.000	410	102	0.445	410
8 2,3,7,8-TCDF	3.19e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0601	42.0
9 1,2,3,7,8-PeCDF	1.34e6	1.63	NO	0.97	1.000	29.89	1.000	214	107	0.118	214
10 2,3,4,7,8-PeCDF	1.34e6	1.58	NO	1.00	1.000	30.86	1.001	214	107	0.103	214
11 1,2,3,4,7,8-HxCDF	1.10e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.259	211
12 1,2,3,6,7,8-HxCDF	1.18e6	1.23	NO	1.10	1.000	33.67	1.000	211	106	0.255	211
13 2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.18	1.000	34.26	1.001	216	108	0.262	216
14 1,2,3,7,8,9-HxCDF	8.63e5	1.25	NO	1.07	1.000	35.18	1.001	221	110	0.402	221
15 1,2,3,4,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	208	104	0.363	208
16 1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.86	1.000	217	109	0.423	217
17 OCDF	1.21e6	0.90	NO	1.10	1.000	41.70	1.000	378	94.5	0.387	378
18 13C-2,3,7,8-TCDD	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.186	
19 13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.253	
20 13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.65	1.000	34.40	1.014	99.5	99.5	0.657	
21 13C-1,2,3,6,7,8-HxCDD	3.86e5	1.28	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.547	
22 13C-1,2,3,7,8,9-HxCDD	3.27e5	1.32	NO	0.66	1.000	34.78	1.025	97.3	97.3	0.644	
23 13C-1,2,3,4,6,7,8-HpCDD	2.74e5	1.06	NO	0.53	1.000	38.30	1.129	101	101	0.394	



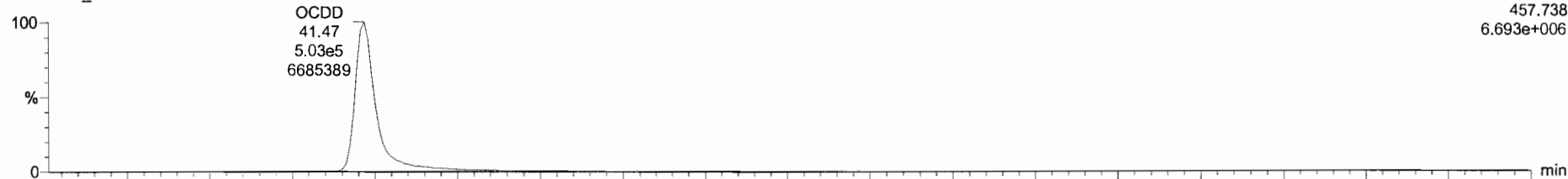
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_6, Date: 07-May-2019, Time: 14:39:24, ID: ST190507K1\_6 1613 CS4 19C2205, Description: 1613 CS4 19C2205

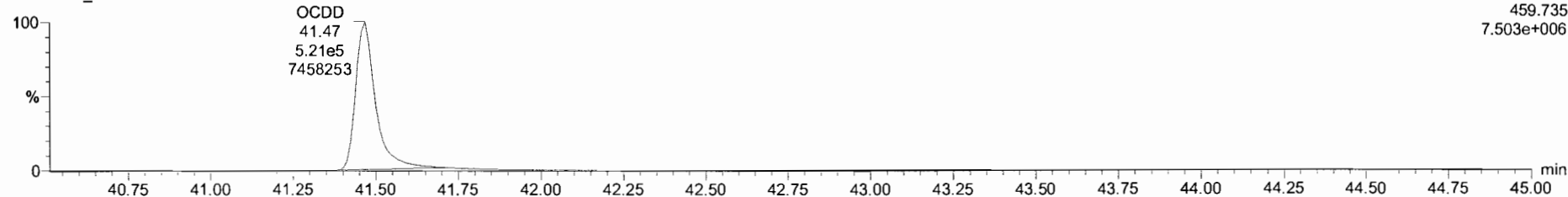
**OCDD**

190507K1\_6



F5:Voltage SIR,EI+  
457.738  
6.693e+006

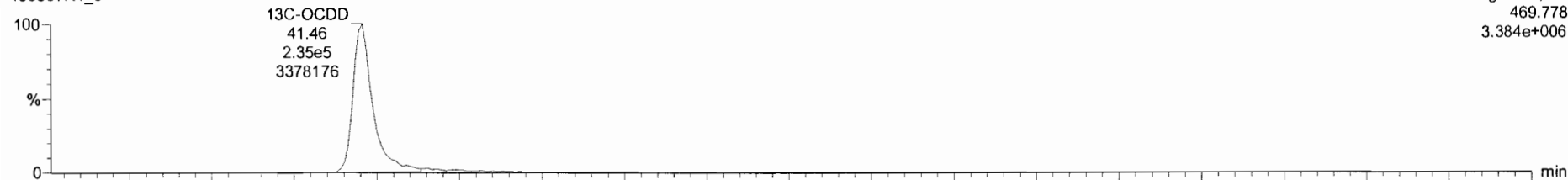
190507K1\_6



F5:Voltage SIR,EI+  
459.735  
7.503e+006

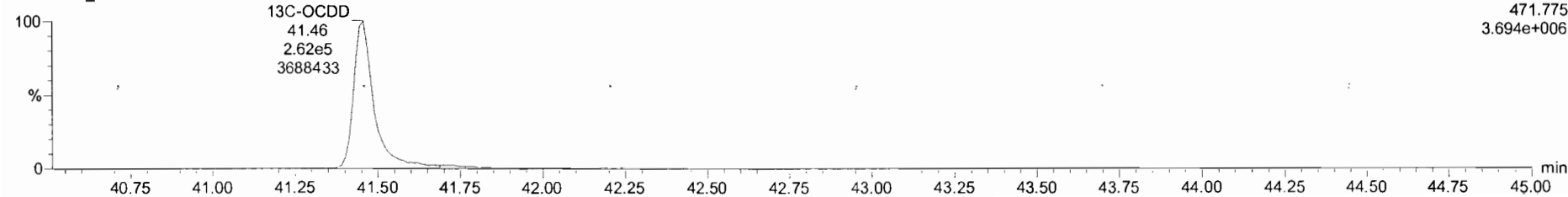
**13C-OCDD**

190507K1\_6



F5:Voltage SIR,EI+  
469.778  
3.384e+006

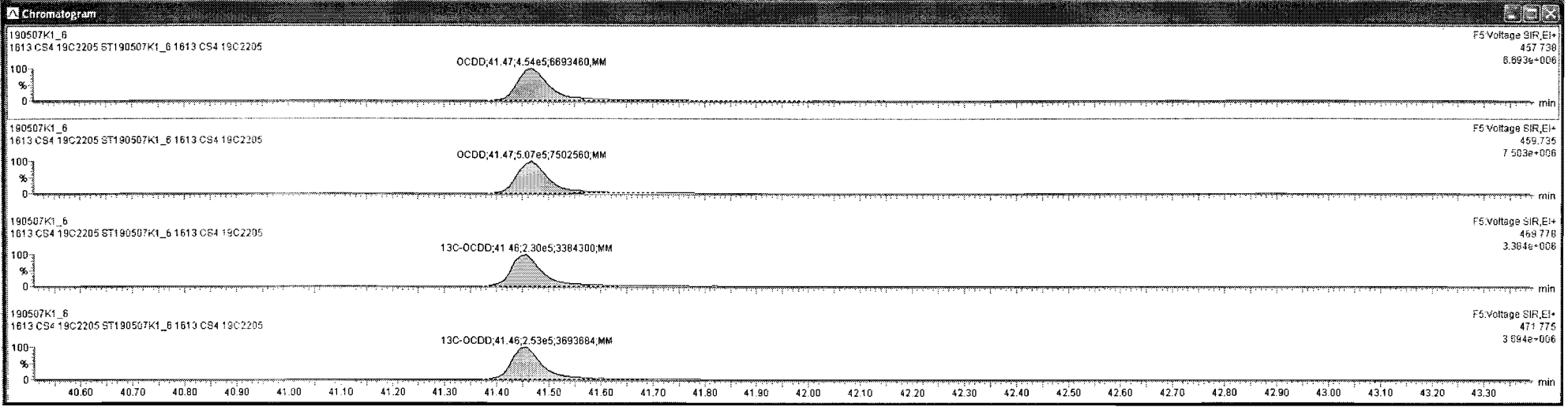
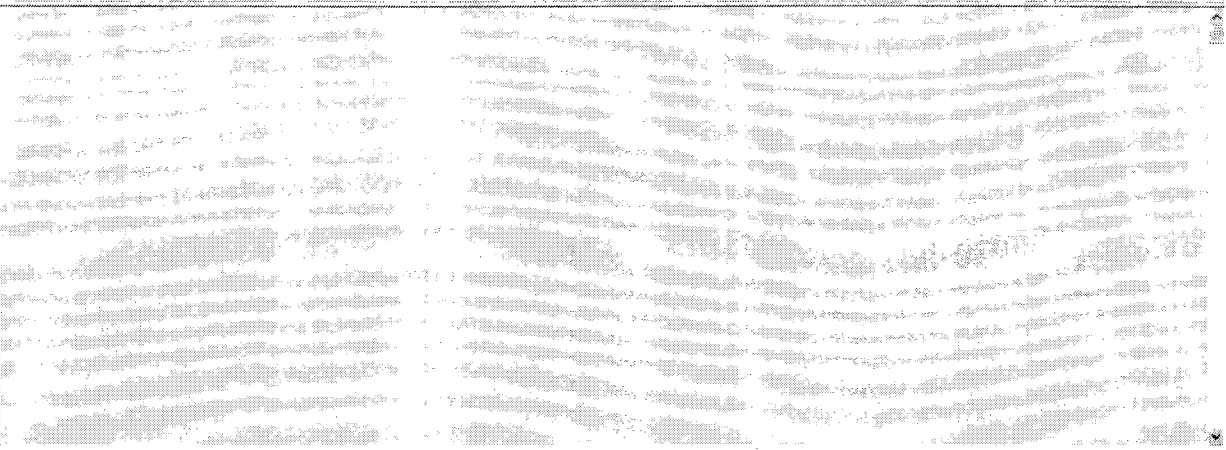
190507K1\_6



F5:Voltage SIR,EI+  
471.775  
3.694e+006

190507K1\_6 - ST190507K1\_6 1613 CS4 19C2205 - 1613 CS4 19C2205

Line	Name	Resp	RA	NA	RRF	wt/wt	RT	RRV	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.29e5	0.78	NO	0.92	1.000	26.36	1.001	40.7	102	0.0730	40.7
2	1,2,3,7,8-PeCDD	8.32e5	0.61	NO	0.90	1.000	31.14	1.001	216	108	0.127	216
3	1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.305	210
4	1,2,3,6,7,8-HxCDD	7.88e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.306	211
5	1,2,3,7,8,9-HxCDD	6.69e5	1.22	NO	0.98	1.000	34.80	1.000	209	105	0.356	209
6	1,2,3,4,6,7,8-HpCDD	5.83e5	1.03	NO	1.04	1.000	38.31	1.000	205	102	0.421	205
7	OCDD	9.61e5	0.90	NO	0.97	1.000	41.47	1.000	410	102	0.445	410
8	2,3,7,8-TCDF	3.18e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0601	42.0
9	1,2,3,7,8-PeCDF	1.34e6	1.63	NO	0.97	1.000	29.89	1.000	214	107	0.118	214
10	2,3,4,7,8-PeCDF	1.34e6	1.58	NO	1.00	1.000	30.86	1.001	214	107	0.103	214
11	1,2,3,4,7,8-HxCDF	1.10e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.259	211
12	1,2,3,6,7,8-HxCDF	1.19e6	1.23	NO	1.10	1.000	33.67	1.000	211	106	0.255	211
13	2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.18	1.000	34.26	1.001	216	108	0.262	216
14	1,2,3,7,8,9-HxCDF	9.63e5	1.25	NO	1.07	1.000	35.18	1.001	221	110	0.402	221
15	1,2,3,4,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	209	104	0.363	209
16	1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.86	1.000	217	109	0.423	217
17	OCDF	1.21e6	0.90	NO	1.10	1.000	41.70	1.000	376	94.5	0.367	376
18	13C-2,3,7,8-TCDD	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.186	
19	13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.253	
20	13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.65	1.000	34.40	1.014	99.5	99.5	0.657	
21	13C-1,2,3,6,7,8-HxCDD	3.86e5	1.28	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.547	
22	13C-1,2,3,7,8,9-HxCDD	3.27e5	1.32	NO	0.66	1.000	34.78	1.025	97.3	97.3	0.644	
23	13C-1,2,3,4,6,7,8-HpCDD	2.74e5	1.06	NO	0.53	1.000	38.30	1.129	101	101	0.394	





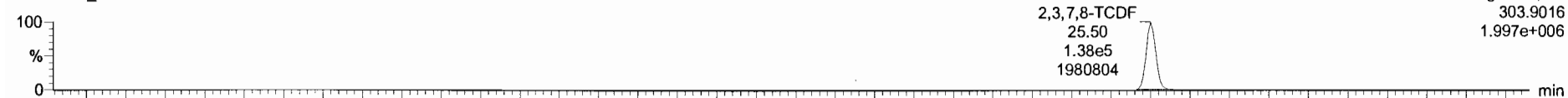
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

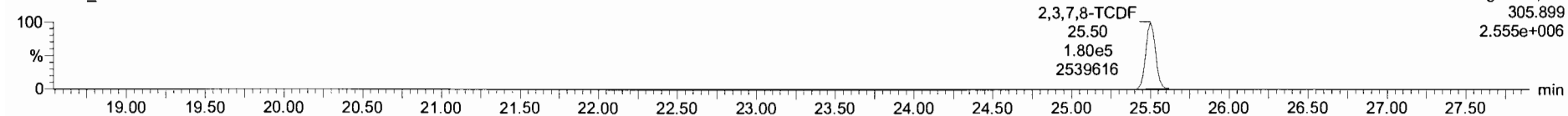
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**2,3,7,8-TCDF**

190507K1\_6

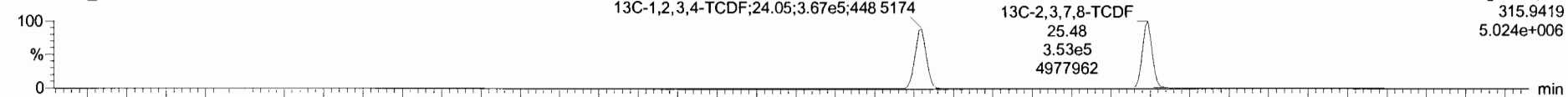


190507K1\_6

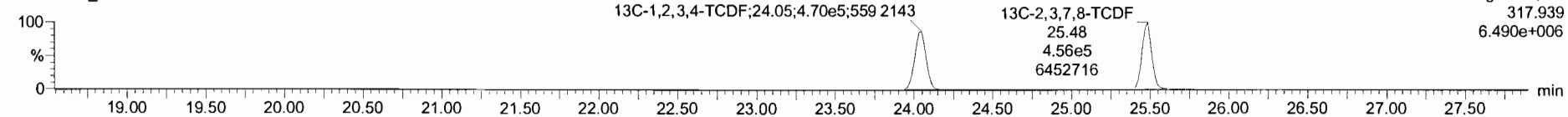


**13C-2,3,7,8-TCDF**

190507K1\_6

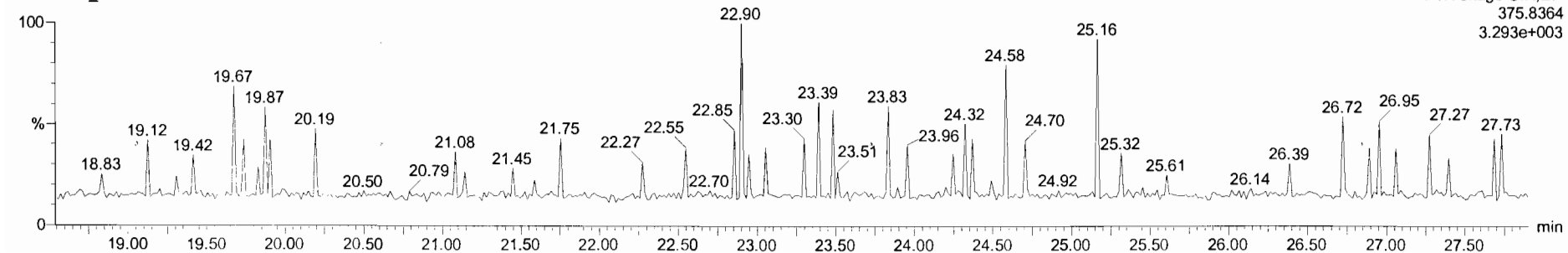


190507K1\_6



**DPE1**

190507K1\_6



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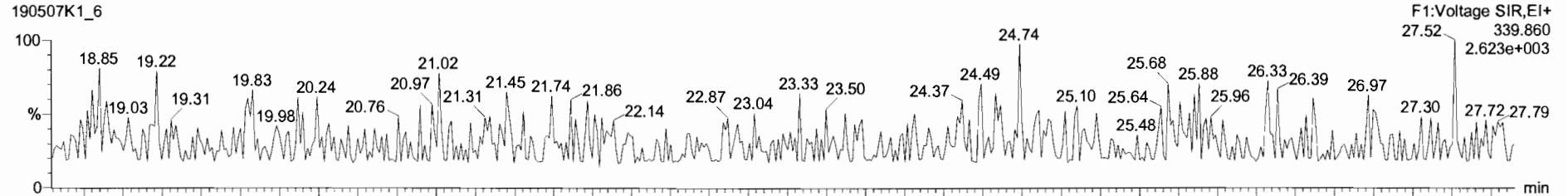
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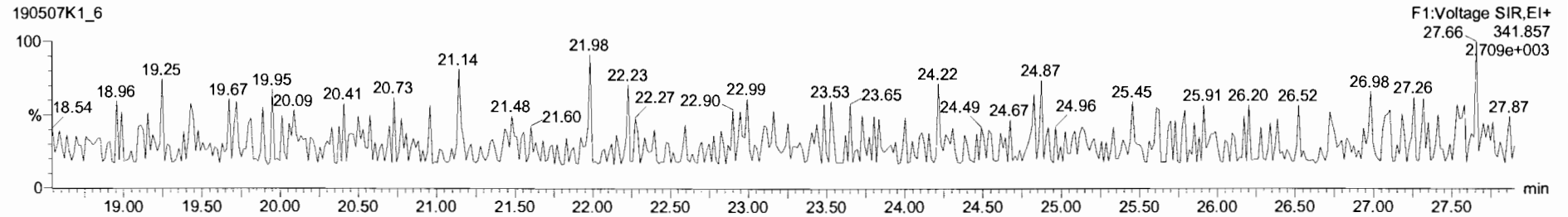
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1st Func. Penta-Furans

190507K1\_6

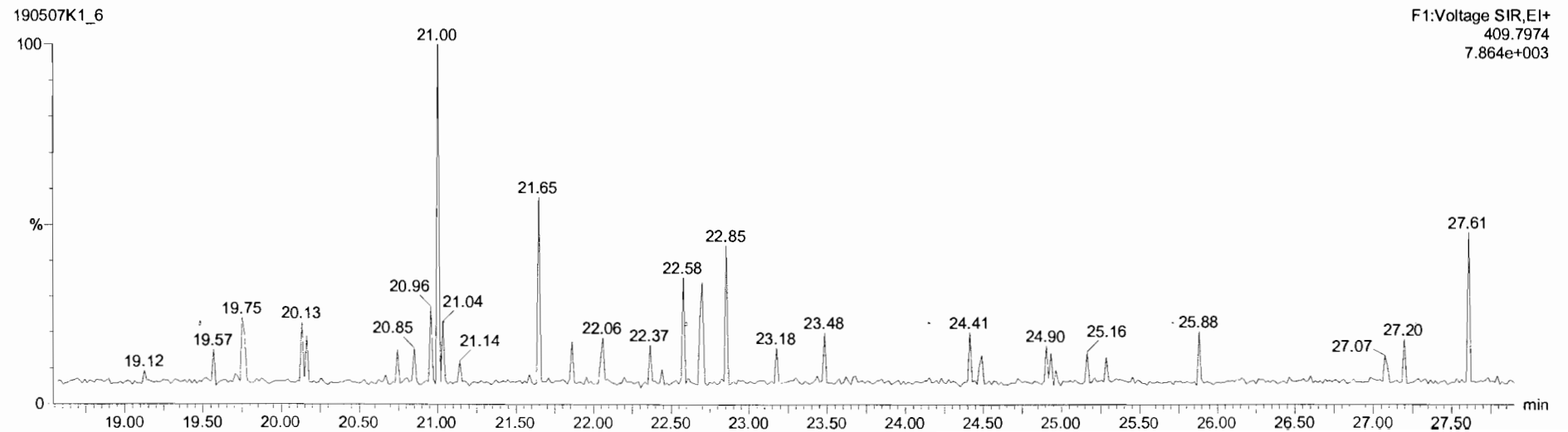


190507K1\_6



DPE6

190507K1\_6



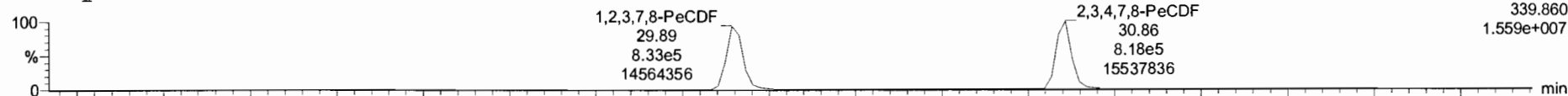
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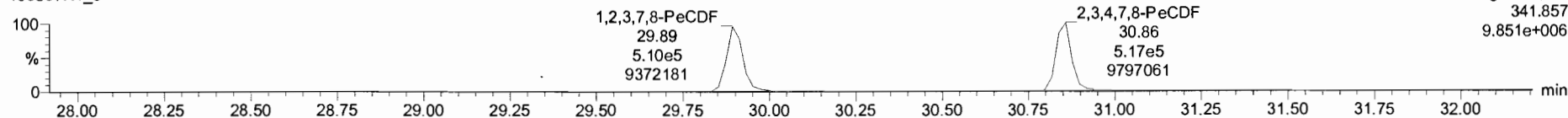
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**1,2,3,7,8-PeCDF**

190507K1\_6

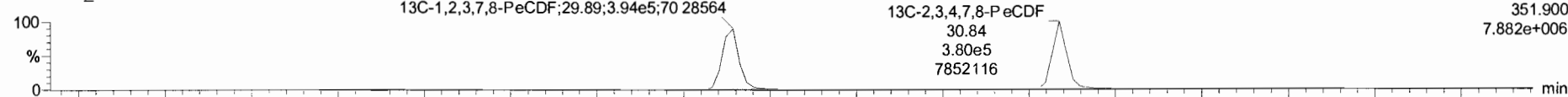


190507K1\_6

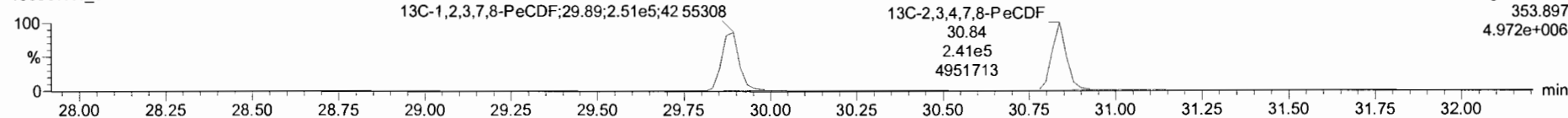


**13C-1,2,3,7,8-PeCDF**

190507K1\_6

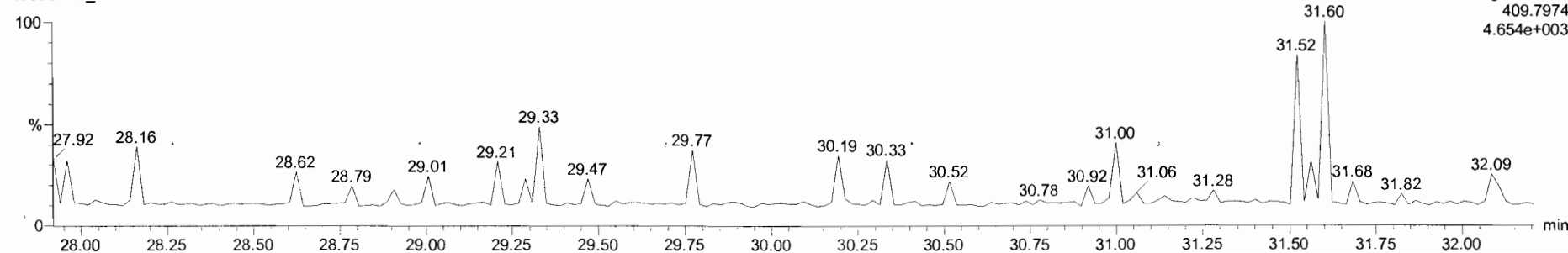


190507K1\_6



**DPE2**

190507K1\_6



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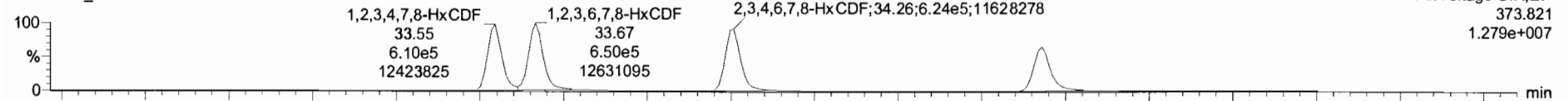
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

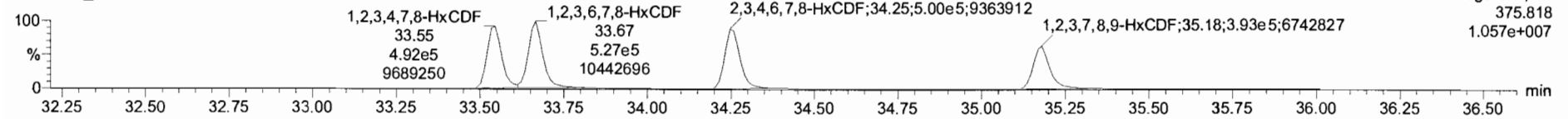
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**1,2,3,4,7,8-HxCDF**

190507K1\_6

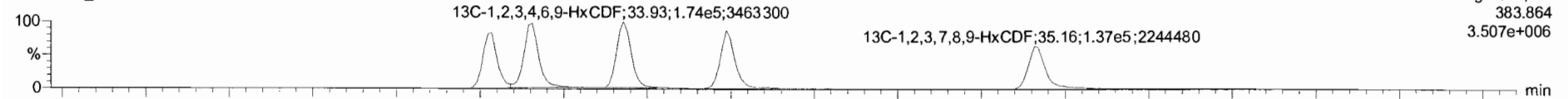


190507K1\_6

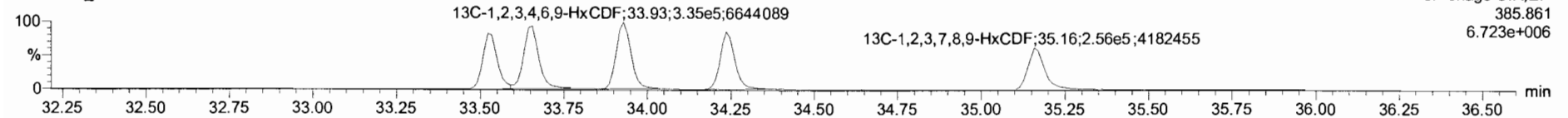


**13C-1,2,3,4,7,8-HxCDF**

190507K1\_6

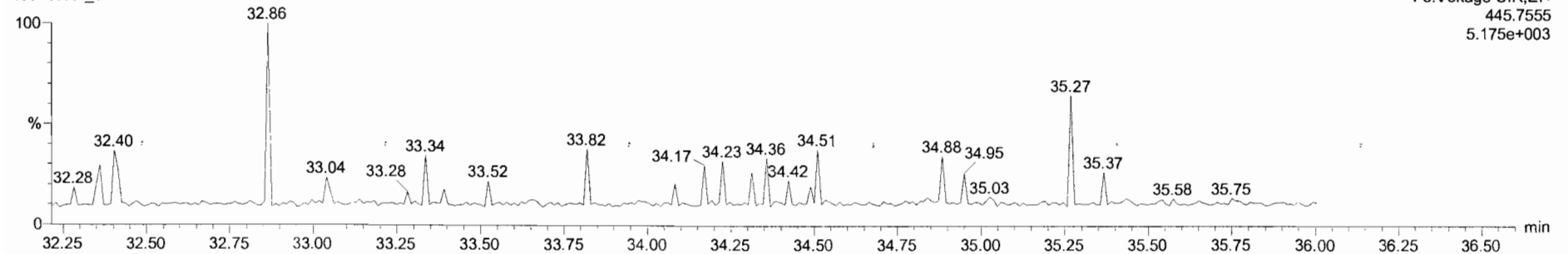


190507K1\_6



**DPE3**

190507K1\_6

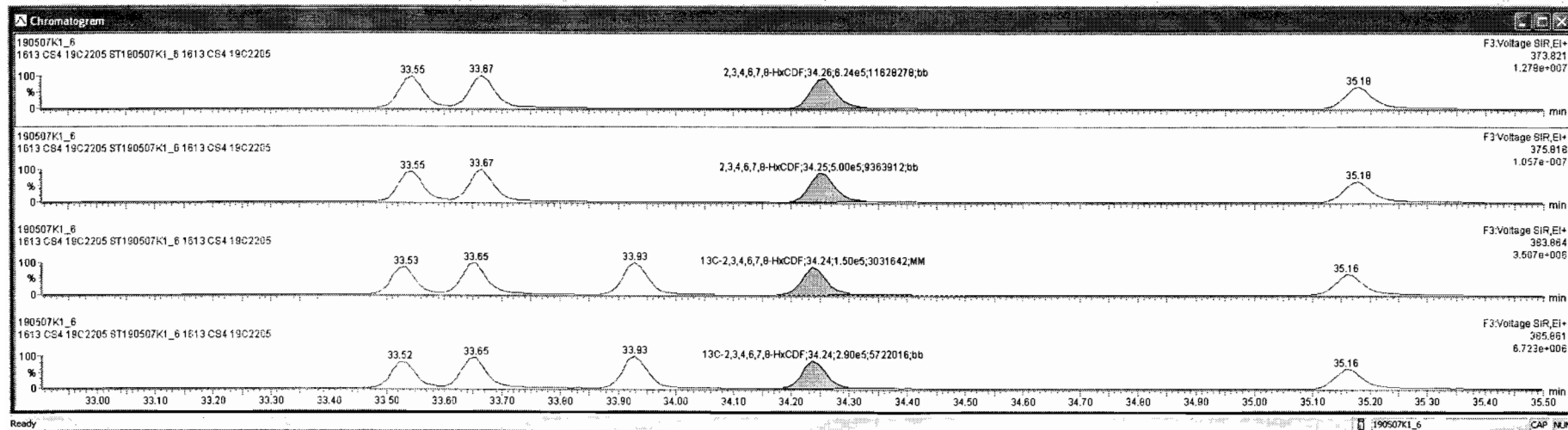


TargetLynk - 190507K1.CRV.qld

File Edit View Display Processing Window Help

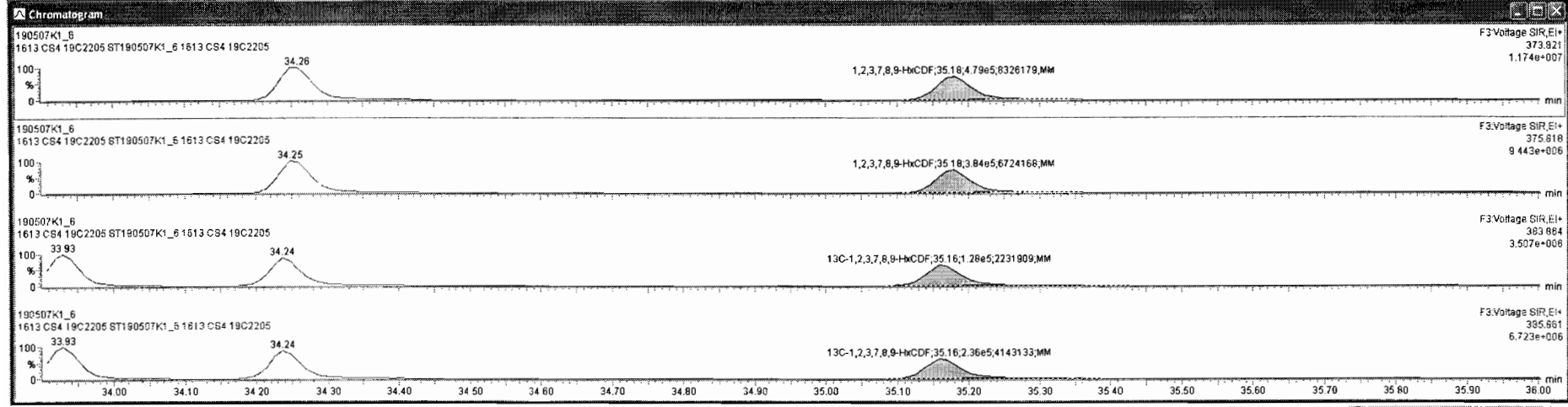
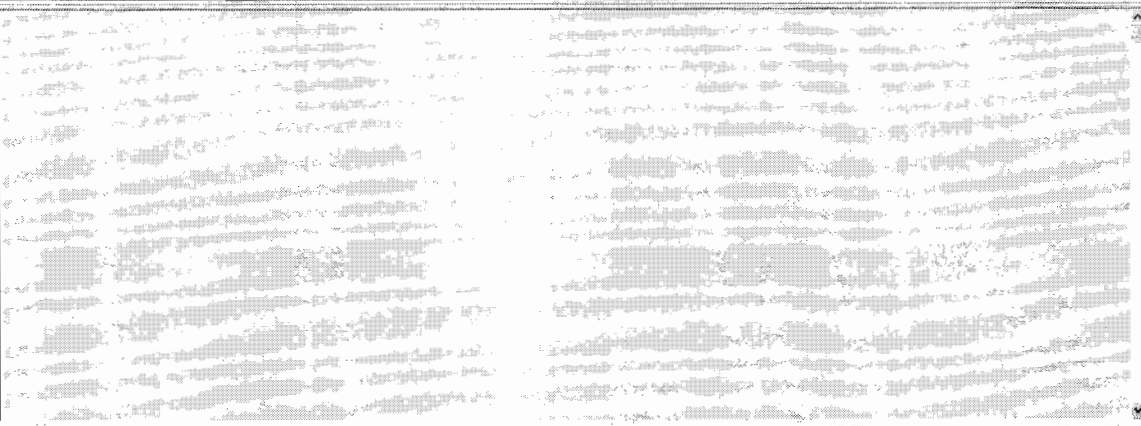
190507K1\_6 - ST190507K1\_6 1613 CS4 19C2205 - 1613 CS4 19C2205

#	Name	Resp	RA	oxy	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.26e5	0.78	NO	0.92	1.000	26.36	1.001	40.7	102	0.0730	40.7
2	1,2,3,7,8-PeCDD	8.32e5	0.61	NO	0.90	1.000	31.14	1.001	218	108	0.127	216
3	1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.305	210
4	1,2,3,6,7,8-HxCDD	7.86e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.306	211
5	1,2,3,7,8,9-HxCDD	6.68e5	1.22	NO	0.96	1.000	34.80	1.000	209	105	0.356	209
6	1,2,3,4,6,7,8-HpCDD	5.83e5	1.03	NO	1.04	1.000	38.31	1.000	205	102	0.421	205
7	OCDD	9.61e5	0.90	NO	0.97	1.000	41.47	1.000	410	102	0.445	410
8	2,3,7,8-TCDF	3.19e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0801	42.0
9	1,2,3,7,8-PeCDF	1.34e5	1.63	NO	0.97	1.000	29.89	1.000	214	107	0.118	214
10	2,3,4,7,8-PeCDF	1.34e5	1.58	NO	1.00	1.000	30.86	1.001	214	107	0.103	214
11	1,2,3,4,7,8-HxCDF	1.10e5	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.259	211
12	1,2,3,6,7,8-HxCDF	1.18e5	1.23	NO	1.10	1.000	33.67	1.000	211	108	0.255	211
13	2,3,4,6,7,8-HxCDF	1.12e5	1.25	NO	1.10	1.000	34.26	1.001	210	108	0.262	210
14	1,2,3,7,8,9-HxCDF	8.63e5	1.25	NO	1.07	1.000	35.19	1.001	221	110	0.402	221
15	1,2,3,4,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	208	104	0.363	208
16	1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.86	1.000	217	109	0.423	217
17	OCDF	1.21e5	0.90	NO	1.10	1.000	41.70	1.000	378	94.5	0.387	378
18	13C-2,3,7,8-TCDD	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.186	
19	13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.253	
20	13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.65	1.000	34.40	1.014	99.5	99.5	0.657	
21	13C-1,2,3,6,7,8-HxCDD	3.86e5	1.26	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.547	
22	13C-1,2,3,7,8,9-HxCDD	3.27e5	1.32	NO	0.66	1.000	34.78	1.025	97.3	97.3	0.644	
23	13C-1,2,3,4,6,7,8-HpCDD	2.74e5	1.06	NO	0.53	1.000	38.30	1.129	101	101	0.394	



190507K1\_6 - ST190507K1\_6 1613 CS4 19C2205 - 1613 CS4 19C2205

Name	Resp	RA	NY	RRF	WtVol	RT	RRT	Conc.	%Rec	DL	EMEC
1 2,3,7,8-TCDD	2.29e5	0.78	NO	0.52	1.000	26.36	1.001	40.7	102	0.0730	40.7
2 1,2,3,7,8-PeCDD	8.32e5	0.51	NO	0.90	1.000	31.14	1.001	216	108	0.127	216
3 1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.305	210
4 1,2,3,6,7,8-HxCDD	7.89e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.306	211
5 1,2,3,7,8,9-HxCDD	6.69e5	1.22	NO	0.98	1.000	34.80	1.000	209	105	0.356	209
6 1,2,3,4,6,7,8-HpCDD	5.89e5	1.03	NO	1.04	1.000	38.31	1.000	205	102	0.421	205
7 OCDD	9.61e5	0.90	NO	0.97	1.000	41.47	1.000	410	102	0.445	410
8 2,3,7,8-TCDF	3.18e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0601	42.0
9 1,2,3,7,8-PeCDF	1.34e6	1.63	NO	0.97	1.000	29.89	1.000	214	107	0.118	214
10 2,3,4,7,8-PeCDF	1.34e6	1.58	NO	1.00	1.000	30.86	1.001	214	107	0.103	214
11 1,2,3,4,7,8-HxCDF	1.10e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.259	211
12 1,2,3,6,7,8-HxCDF	1.18e6	1.23	NO	1.10	1.000	33.67	1.000	211	106	0.255	211
13 2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.18	1.000	34.26	1.001	216	108	0.262	216
14 1,2,3,7,8,9-HxCDF	8.63e5	1.25	NO	1.07	1.000	35.18	1.001	221	110	0.402	221
15 1,2,3,4,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	208	104	0.363	208
16 1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.86	1.000	217	109	0.423	217
17 OCDF	1.21e6	0.90	NO	1.10	1.000	41.70	1.000	378	94.5	0.387	378
18 13C-2,3,7,8-TCDD	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.186	
19 13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.253	
20 13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.65	1.000	34.40	1.014	99.5	99.5	0.657	
21 13C-1,2,3,6,7,8-HxCDD	3.86e5	1.28	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.547	
22 13C-1,2,3,7,8,9-HxCDD	3.27e5	1.32	NO	0.66	1.000	34.78	1.025	97.3	97.3	0.644	
23 13C-1,2,3,4,6,7,8-HpCDD	2.74e5	1.08	NO	0.53	1.000	38.30	1.129	101	101	0.394	



Dataset: Untitled

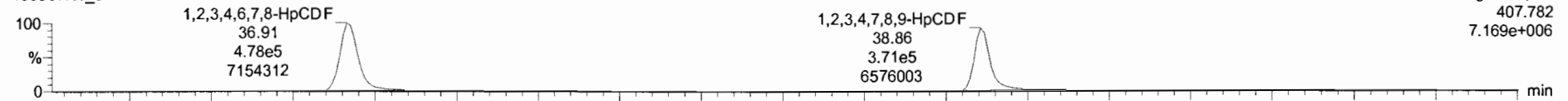
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_6, Date: 07-May-2019, Time: 14:39:24, ID: ST190507K1\_6 1613 CS4 19C2205, Description: 1613 CS4 19C2205

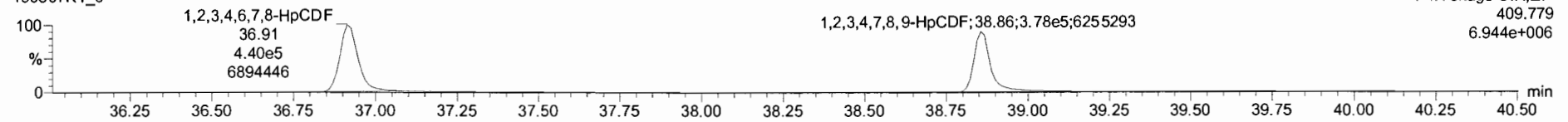
**1,2,3,4,6,7,8-HpCDF**

190507K1\_6



F4:Voltage SIR,EI+  
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7.169e+006

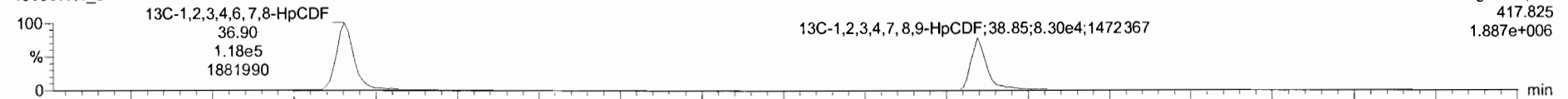
190507K1\_6



F4:Voltage SIR,EI+  
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6.944e+006

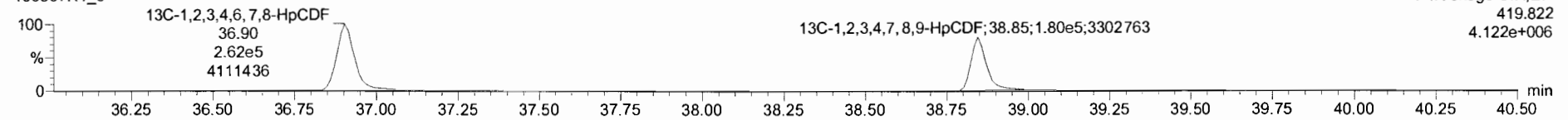
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190507K1\_6



F4:Voltage SIR,EI+  
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1.887e+006

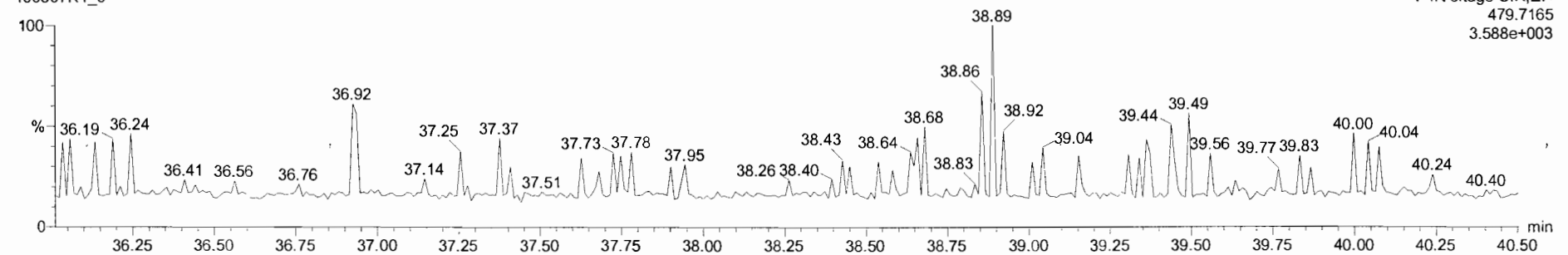
190507K1\_6



F4:Voltage SIR,EI+  
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4.122e+006

**DPE4**

190507K1\_6



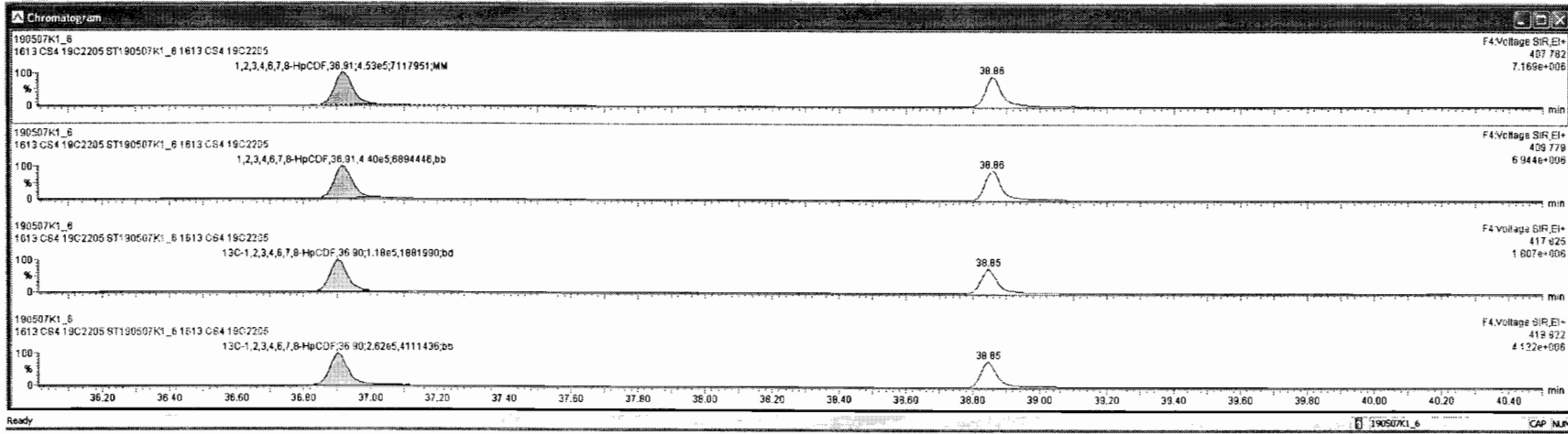
F4:Voltage SIR,EI+  
479.7165  
3.588e+003

Target:lynx 190507K1\_CRY.gid

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190507K1\_6 - ST190507K1\_6\_1613 CS4 19C2205 - 1613 CS4 19C2205

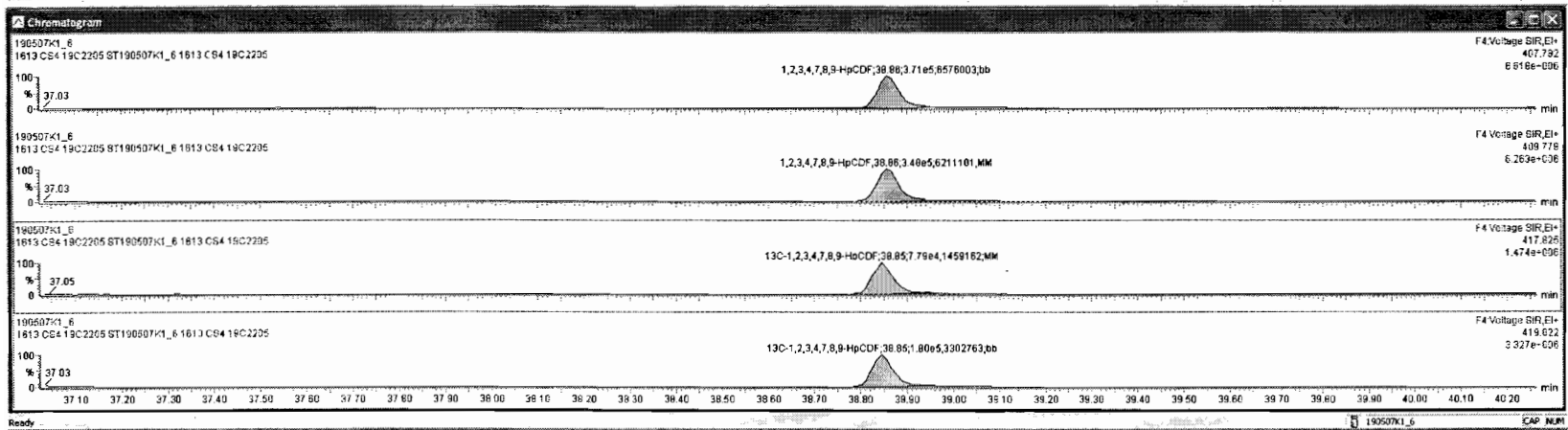
SL	Name	Resp	RA	ntf	RPF	Vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.26e5	0.76	NO	0.92	1.000	26.36	1.001	40.7	102	0.0730	40.7
2	1,2,3,7,8-PeCDD	8.32e5	0.61	NO	0.90	1.000	31.14	1.001	216	108	0.127	216
3	1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.305	210
4	1,2,3,6,7,8-HxCDD	7.88e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.306	211
5	1,2,3,7,8,9-HxCDD	6.68e5	1.22	NO	0.98	1.000	34.80	1.000	209	105	0.356	209
6	1,2,3,4,6,7,8-HpCDD	5.83e5	1.03	NO	1.04	1.000	36.91	1.000	205	102	0.421	205
7	OCDD	9.61e5	0.90	NO	0.97	1.000	41.47	1.000	410	102	0.445	410
8	2,3,7,8-TCDF	3.10e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0601	42.0
9	1,2,3,7,8-PeCDF	1.34e6	1.63	NO	0.97	1.000	29.85	1.000	214	107	0.118	214
10	2,3,4,7,8-HxCDF	1.34e6	1.58	NO	1.00	1.000	30.86	1.001	214	107	0.103	214
11	1,2,3,4,7,8-HxCDF	1.10e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.259	211
12	1,2,3,6,7,8-HxCDF	1.18e6	1.23	NO	1.10	1.000	33.67	1.000	211	106	0.265	211
13	2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.18	1.000	34.26	1.001	216	108	0.262	216
14	1,2,3,7,8,9-HxCDF	8.63e5	1.25	NO	1.07	1.000	35.10	1.001	221	110	0.402	221
15	1,2,3,6,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	206	104	0.363	206
16	1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.86	1.000	217	109	0.423	217
17	OCDF	1.21e6	0.90	NO	1.10	1.000	41.70	1.000	378	94.5	0.367	378
18	13C-2,3,7,8-TCDD	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.186	
19	13C-1,2,3,7,8-PeCDD	4.25e5	0.80	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.253	
20	13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.85	1.000	34.40	1.014	99.5	99.5	0.657	
21	13C-1,2,3,6,7,8-HxCDD	3.86e5	1.28	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.547	
22	13C-1,2,3,7,8,9-HxCDD	3.27e5	1.32	NO	0.86	1.000	34.78	1.025	97.3	97.3	0.644	
23	13C-1,2,3,4,6,7,8-HpCDD	2.74e5	1.06	NO	0.53	1.000	36.30	1.129	101	101	0.394	





100507K1\_6 - ST190507K1\_6 1613 CS4 19C 2205 - 1613 CS4 19C 2205

Name	Resp	RA	dy	RPF	wtAvcl	RT	RRT	Conc	S&Rec	DL	ShPC
1 2,3,7,8-TCDD	2.29e5	0.78	NO	0.82	1.000	26.36	1.001	40.7	102	0.0730	40.7
2 1,2,3,7,8-PeCDD	8.32e5	0.51	NO	0.90	1.000	31.14	1.001	216	108	0.127	216
3 1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.305	210
4 1,2,3,6,7,8-HxCDD	7.88e5	1.25	NO	0.97	1.000	34.52	1.000	211	105	0.306	211
5 1,2,3,7,8,9-HxCDD	6.68e5	1.22	NO	0.98	1.000	34.80	1.000	209	105	0.356	209
6 1,2,3,4,6,7,8-HpCDD	5.83e5	1.03	NO	1.04	1.000	36.21	1.000	205	102	0.421	205
7 OCDD	9.81e5	0.90	NO	0.97	1.000	41.47	1.000	410	102	0.445	410
8 2,3,7,8-TCDF	3.19e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0801	42.0
9 1,2,3,7,8-PeCDF	1.34e6	1.83	NO	0.97	1.000	29.89	1.000	214	107	0.116	214
10 1,2,3,4,7,8-PeCDF	1.34e6	1.58	NO	1.00	1.000	30.86	1.001	214	107	0.103	214
11 1,2,3,4,7,8-HxCDF	1.19e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.296	211
12 1,2,3,6,7,8-HxCDF	1.18e6	1.23	NO	1.10	1.000	33.67	1.000	211	105	0.255	211
13 1,2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.18	1.000	34.28	1.001	216	108	0.262	216
14 1,2,3,7,8,9-HxCDF	8.83e5	1.25	NO	1.07	1.000	35.18	1.001	221	110	0.402	221
15 1,2,3,4,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	209	104	0.363	209
16 1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.88	1.000	221	110	0.407	221
17 OCDF	1.21e6	0.90	NO	1.10	1.000	41.70	1.000	378	94.5	0.387	378
18 13C-2,3,7,8-TCDD	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.186	
19 13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.253	
20 13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.85	1.000	34.40	1.014	99.5	99.5	0.657	
21 13C-1,2,3,6,7,8-HxCDD	3.86e5	1.28	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.547	
22 13C-1,2,3,7,8,9-HxCDD	3.27e5	1.32	NO	0.86	1.000	34.76	1.025	97.5	97.5	0.544	
23 13C-1,2,3,4,6,7,8-HpCDD	2.24e5	1.08	NO	0.53	1.000	36.30	1.129	101	101	0.394	



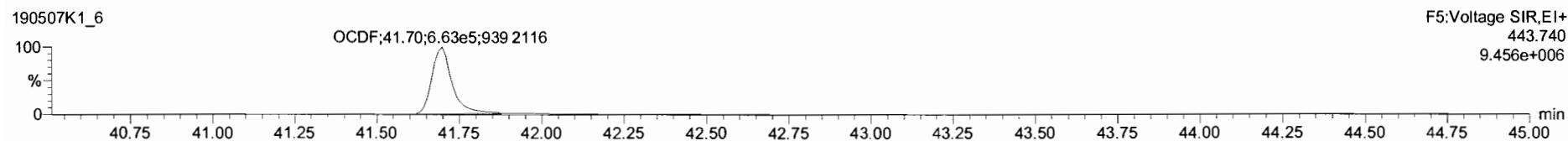
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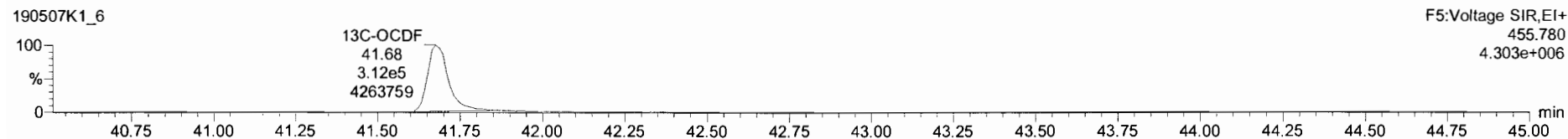
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Name: 190507K1\_6, Date: 07-May-2019, Time: 14:39:24, ID: ST190507K1\_6 1613 CS4 19C2205, Description: 1613 CS4 19C2205

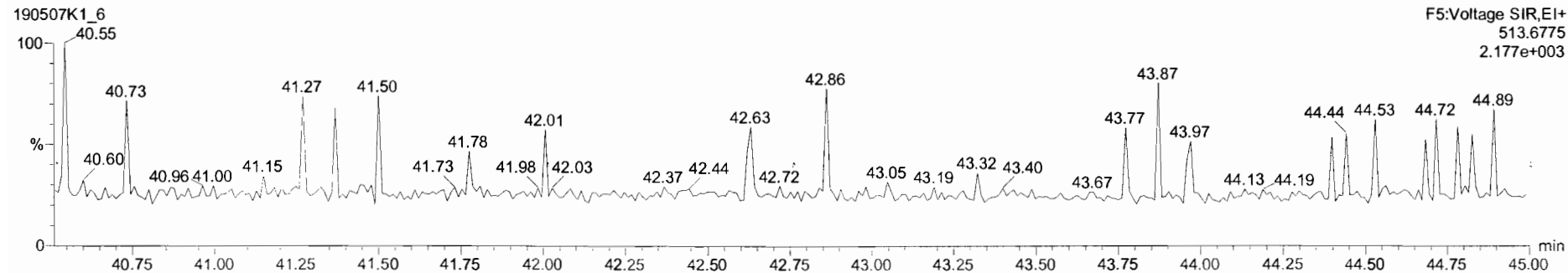
**OCDF**



**13C-OCDF**



**DPE5**

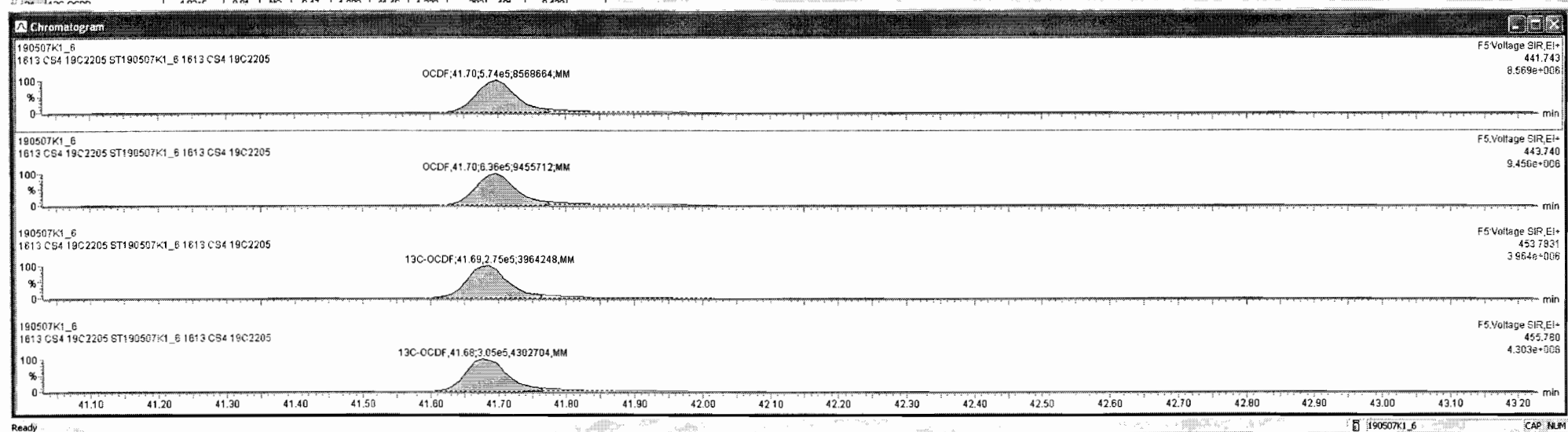


Targetlynx - 190507K1-CRY.gtd

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190507K1\_6 - ST190507K1\_6 1613 CS4 19C2205 - 1613 CS4 19C2205

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.26e5	0.78	NO	0.92	1.000	26.36	1.001	40.7	102	0.0730	40.7
2 1,2,3,7,8-PeCDD	8.32e5	0.61	NO	0.90	1.000	31.14	1.001	216	108	0.127	216
3 1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.305	210
4 1,2,3,6,7,8-HxCDD	7.89e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.306	211
5 1,2,3,7,8,9-HxCDD	6.69e5	1.22	NO	0.98	1.000	34.80	1.000	209	105	0.356	209
6 1,2,3,4,6,7,8-HpCDD	5.83e5	1.03	NO	1.04	1.000	38.31	1.000	205	102	0.421	205
7 OCDD	9.61e5	0.90	NO	0.97	1.000	41.47	1.000	410	102	0.445	410
8 2,3,7,8-TCDF	3.18e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0601	42.0
9 1,2,3,7,8-PeCDF	1.34e6	1.63	NO	0.97	1.000	29.89	1.000	214	107	0.118	214
10 2,3,4,7,8-PeCDF	1.34e6	1.58	NO	1.00	1.000	30.86	1.001	214	107	0.103	214
11 1,2,3,4,7,8-HxCDF	1.10e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.259	211
12 1,2,3,6,7,8-HxCDF	1.18e6	1.23	NO	1.10	1.000	33.67	1.000	211	106	0.255	211
13 2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.18	1.000	34.26	1.001	216	108	0.262	216
14 1,2,3,7,8,9-HxCDF	8.63e5	1.25	NO	1.07	1.000	35.18	1.001	221	110	0.402	221
15 1,2,3,4,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	208	104	0.363	208
16 1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.86	1.000	221	110	0.407	221
17 OCDF	1.21e6	0.90	NO	1.10	1.000	41.70	1.000	378	94.5	0.387	378
18 13C-2,3,7,8-TCDD	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.186	
19 13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.253	
20 13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.85	1.000	34.40	1.014	99.5	99.5	0.657	
21 13C-1,2,3,6,7,8-HxCDD	3.88e5	1.28	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.547	
22 13C-1,2,3,7,8,9-HxCDD	3.27e5	1.32	NO	0.86	1.000	34.78	1.025	97.3	97.3	0.644	
23 13C-1,2,3,4,6,7,8-HpCDD	2.74e5	1.06	NO	0.53	1.000	38.30	1.129	101	101	0.394	



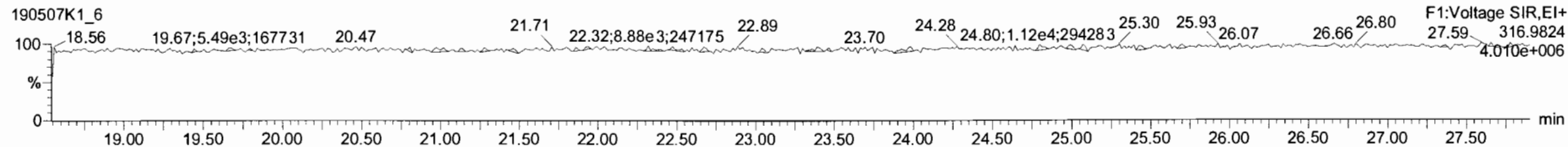
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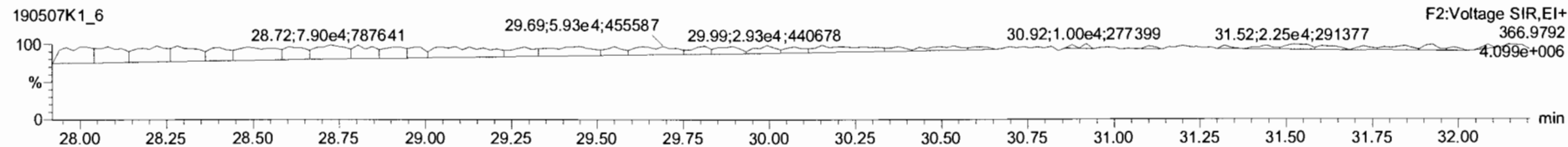
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Name: 190507K1\_6, Date: 07-May-2019, Time: 14:39:24, ID: ST190507K1\_6 1613 CS4 19C2205, Description: 1613 CS4 19C2205

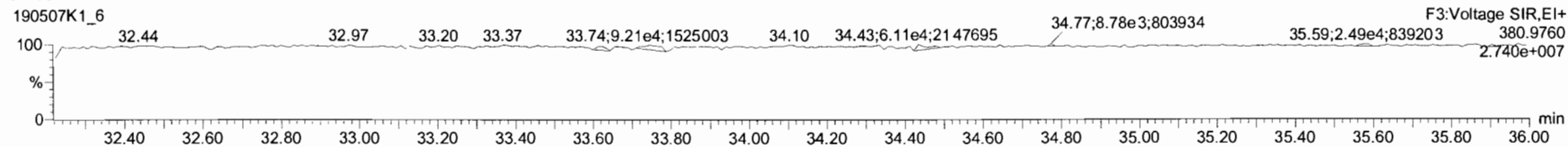
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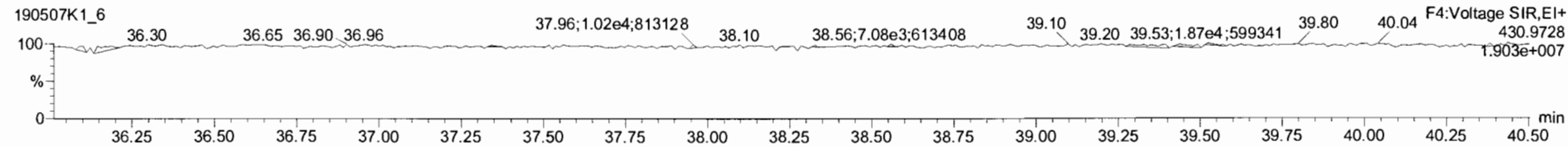
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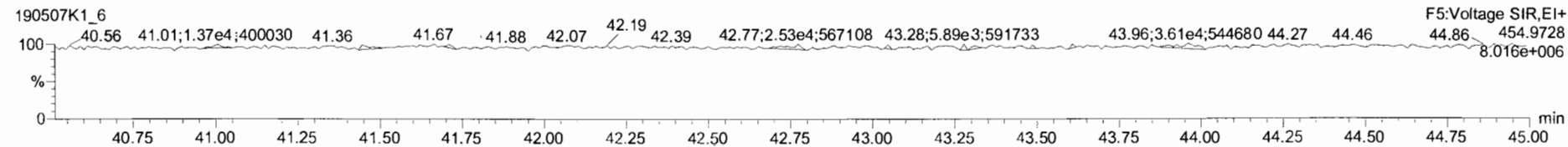
**PFK3**



**PFK4**



**PFK5**



Dataset: Untitled

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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

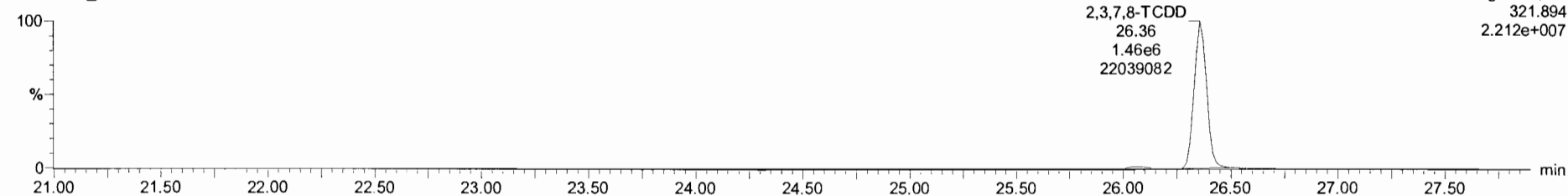
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**2,3,7,8-TCDD**

190507K1\_7



190507K1\_7

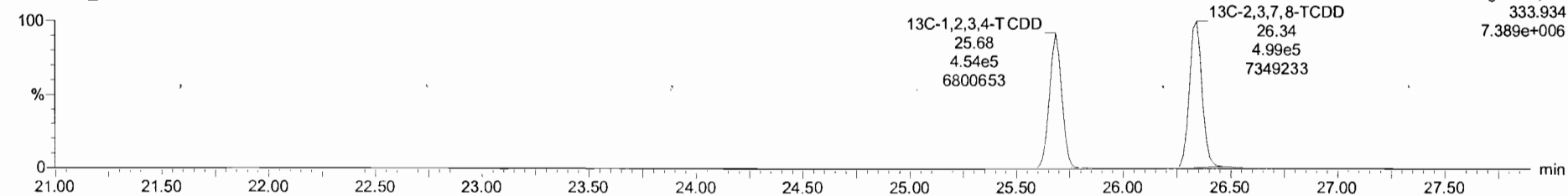


**13C-2,3,7,8-TCDD**

190507K1\_7



190507K1\_7



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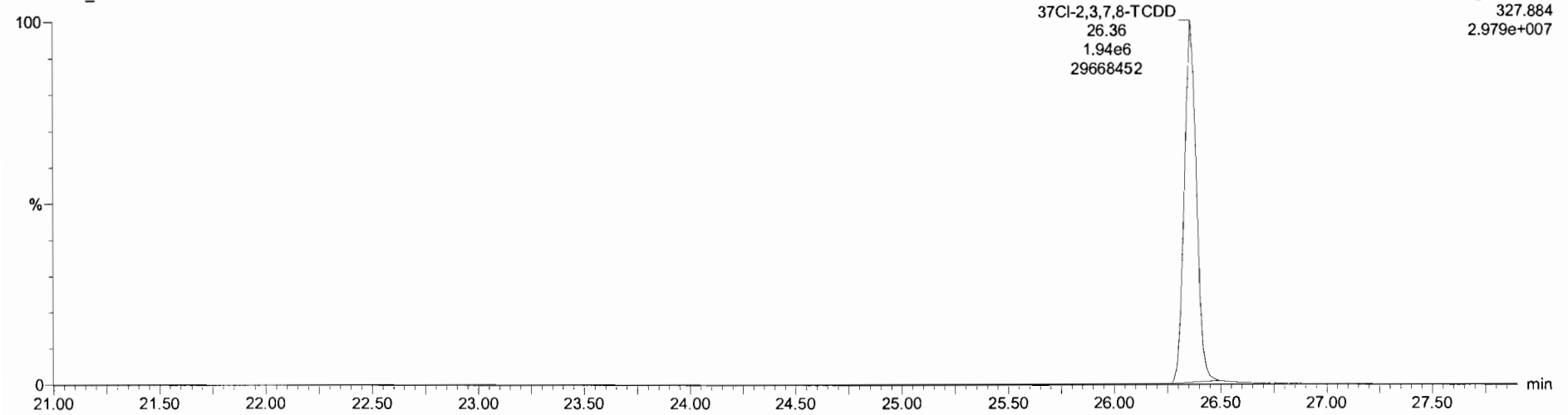
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Name: 190507K1\_7, Date: 07-May-2019, Time: 15:27:02, ID: ST190507K1\_7 1613 CS5 19C2206, Description: 1613 CS5 19C2206

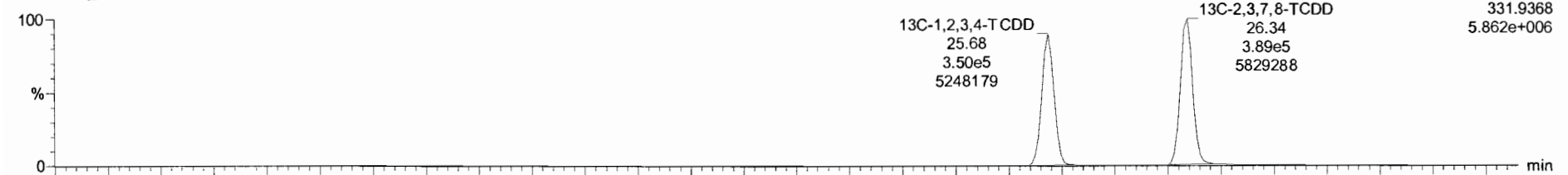
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190507K1\_7

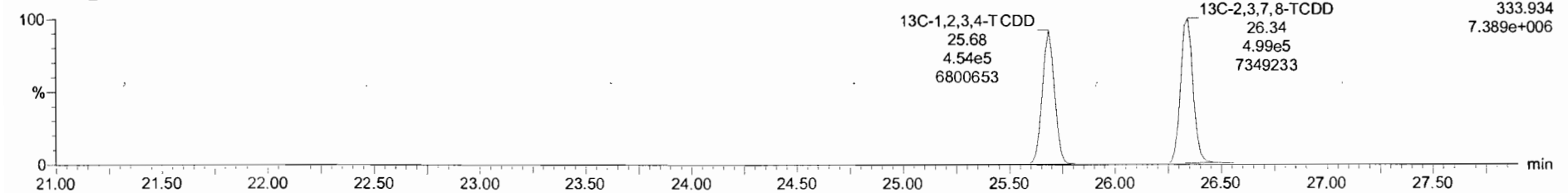


**13C-1,2,3,4-TCDD**

190507K1\_7



190507K1\_7



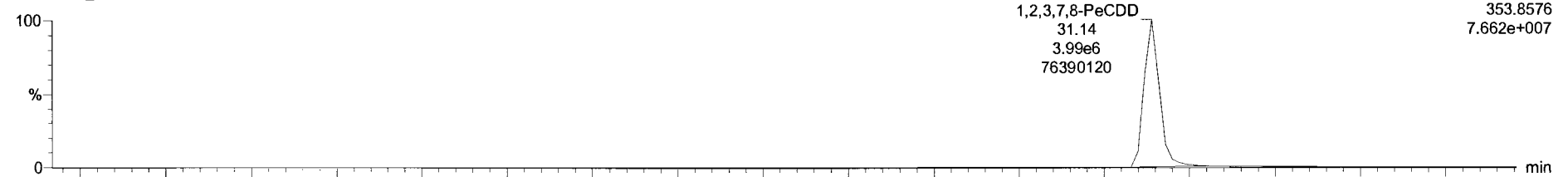
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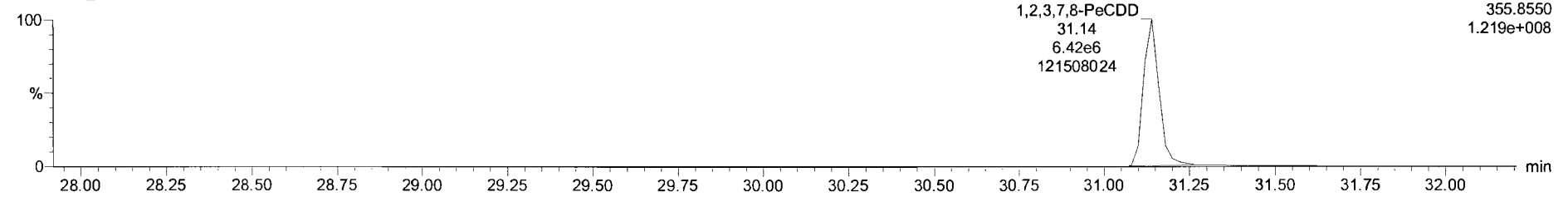
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**1,2,3,7,8-PeCDD**

190507K1\_7

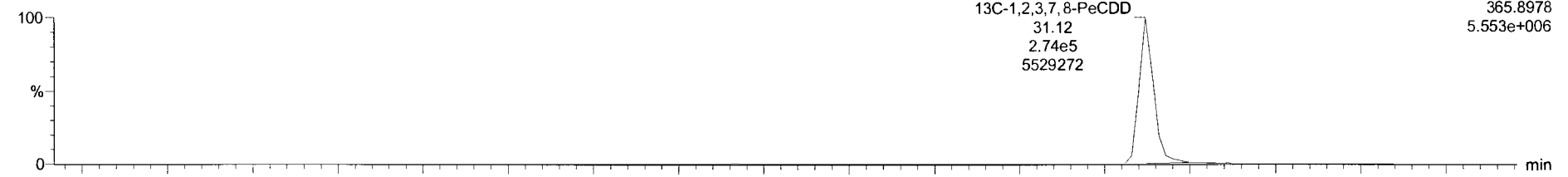


190507K1\_7

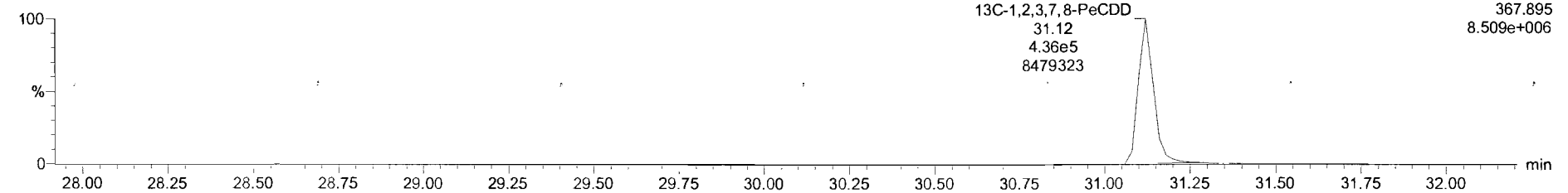


**13C-1,2,3,7,8-PeCDD**

190507K1\_7

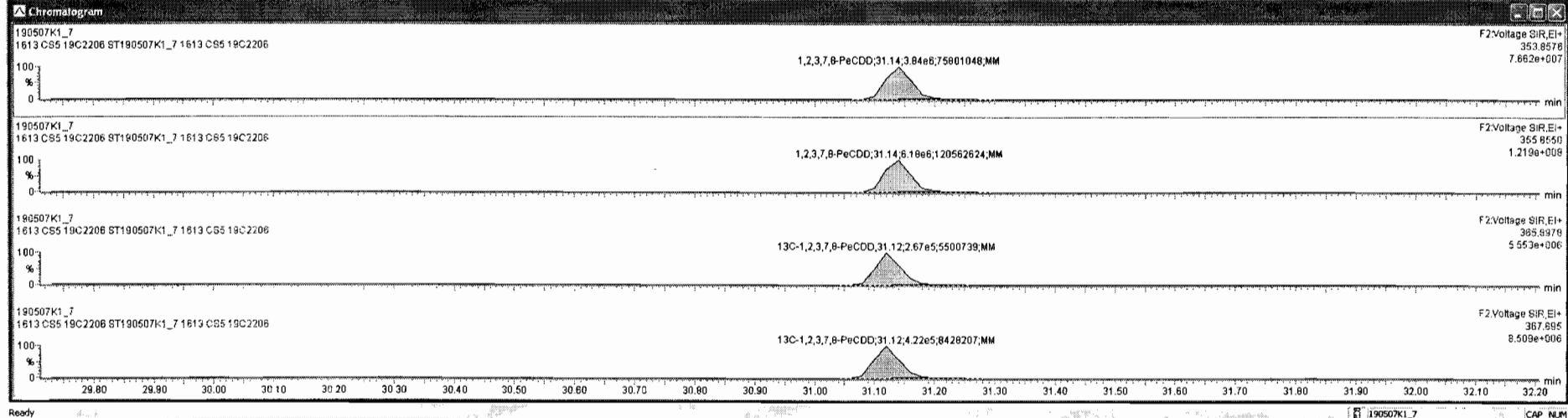


190507K1\_7



190507K1\_7 - ST190507K1\_7\_1613 CS5 19C2206 - 1613 CS5 19C2206

N	Name	Resp	RA	nV	RRF	WtNol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.60e6	0.78	NO	0.92	1.000	26.36	1.001	316	105	0.0742	316
2	1,2,3,7,8-PeCDD	1.00e7	0.52	NO	0.90	1.000	31.14	1.001	1610	107	0.0666	1610
3	1,2,3,4,7,8-HxCDD	9.53e6	1.25	NO	1.07	1.000	34.42	1.001	1660	111	0.470	1660
4	1,2,3,6,7,8-HxCDD	1.02e7	1.25	NO	0.97	1.000	34.52	1.000	1580	104	0.446	1580
5	1,2,3,7,8,9-HxCDD	8.89e6	1.20	NO	0.98	1.000	34.81	1.000	1530	102	0.497	1530
6	1,2,3,4,6,7,8-HpCDD	7.58e6	1.05	NO	1.04	1.000	38.31	1.000	1570	105	0.634	1570
7	OCDD	1.35e7	0.90	NO	0.97	1.000	41.48	1.000	3210	107	1.20	3210
8	2,3,7,8-TCDF	3.44e6	0.78	NO	0.94	1.000	25.51	1.001	320	107	0.0887	320
9	1,2,3,7,8-PeCDF	1.58e7	1.57	NO	0.97	1.000	29.91	1.001	1600	106	0.255	1600
10	2,3,4,7,8-PeCDF	1.81e7	1.58	NO	1.00	1.000	30.86	1.001	1610	107	0.234	1610
11	1,2,3,4,7,8-HxCDF	1.38e7	1.24	NO	1.24	1.000	33.54	1.000	1580	105	0.629	1580
12	1,2,3,6,7,8-HxCDF	1.52e7	1.24	NO	1.10	1.000	33.68	1.000	1620	108	0.664	1620
13	2,3,4,6,7,8-HxCDF	1.40e7	1.24	NO	1.18	1.000	34.26	1.000	1640	109	0.693	1640
14	1,2,3,7,8,9-HxCDF	1.15e7	1.24	NO	1.07	1.000	35.19	1.001	1690	112	0.966	1690
15	1,2,3,4,6,7,8-HpCDF	1.14e7	1.04	NO	1.13	1.000	36.92	1.000	1620	106	0.892	1620
16	1,2,3,4,7,8,9-HpCDF	9.34e6	1.03	NO	1.26	1.000	38.87	1.000	1600	107	0.926	1600
17	OCDF	1.71e7	0.91	NO	1.10	1.000	41.71	1.000	2960	99.7	0.468	2960
18	13C-2,3,7,8-TCDD	8.87e5	0.78	NO	1.05	1.000	26.34	1.028	105	105	0.169	
19	13C-1,2,3,7,8-PeCDD	6.89e5	0.63	NO	0.74	1.000	31.12	1.212	115	115	0.166	
20	13C-1,2,3,4,7,8-HxCDD	5.37e5	1.27	NO	0.65	1.000	34.40	1.014	108	108	0.235	
21	13C-1,2,3,6,7,8-HxCDD	6.73e5	1.27	NO	0.78	1.000	34.51	1.017	113	113	0.196	
22	13C-1,2,3,7,8,9-HxCDD	5.83e5	1.25	NO	0.66	1.000	34.80	1.026	115	115	0.231	
23	13C-1,2,3,4,6,7,8-HpCDD	4.85e5	1.07	NO	0.53	1.000	38.31	1.129	113	113	0.326	





Dataset: Untitled

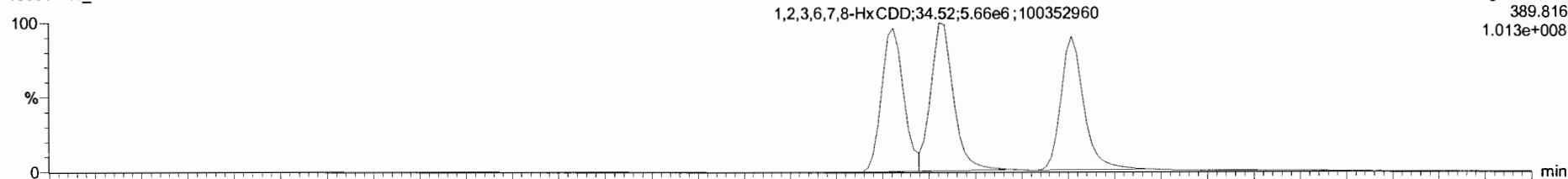
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

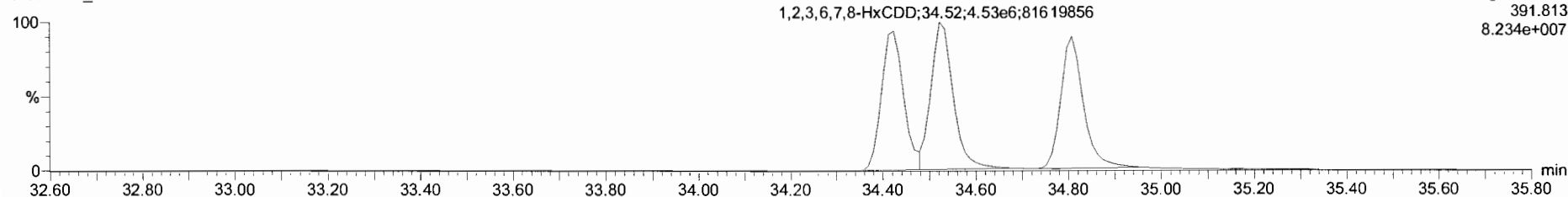
Name: 190507K1\_7, Date: 07-May-2019, Time: 15:27:02, ID: ST190507K1\_7 1613 CS5 19C2206, Description: 1613 CS5 19C2206

**1,2,3,4,7,8-HxCDD**

190507K1\_7

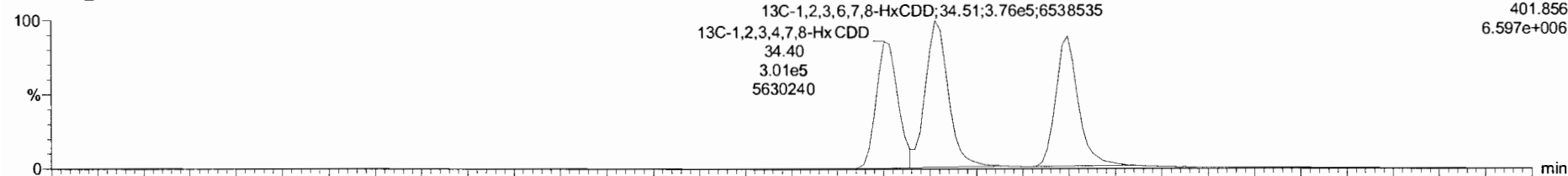


190507K1\_7

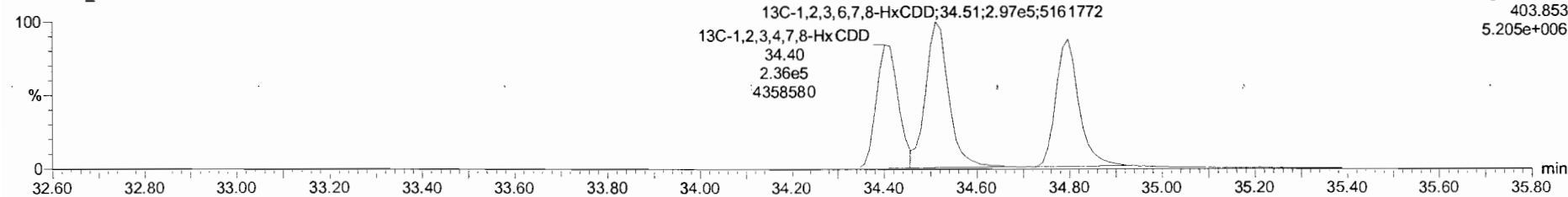


**13C-1,2,3,4,7,8-HxCDD**

190507K1\_7



190507K1\_7

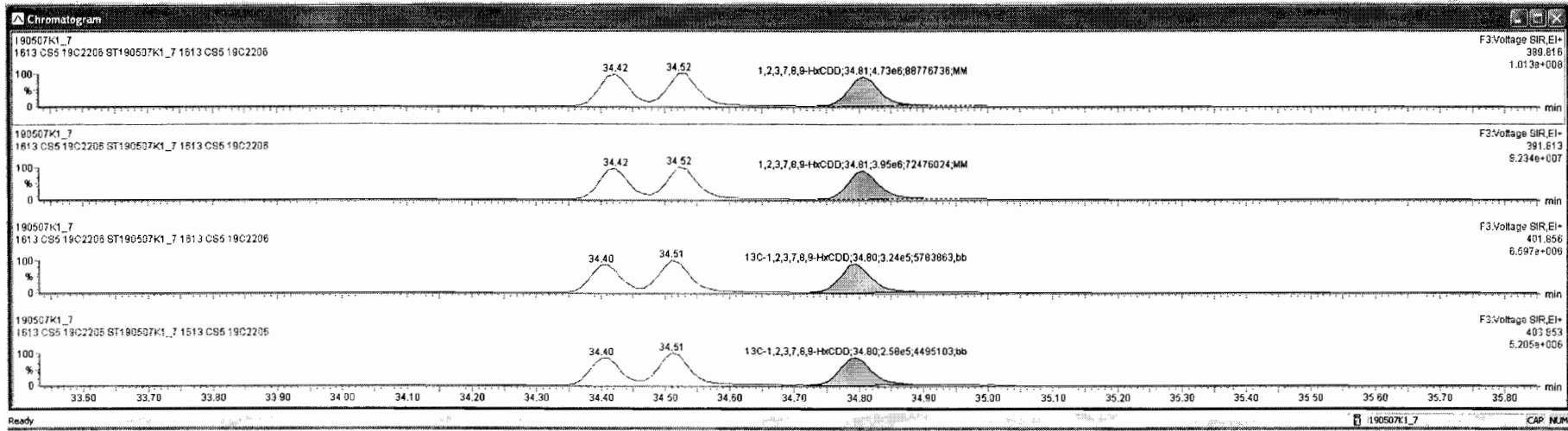


Target: ynx - 190507K1-CRV.qld

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190507K1\_7 - ST190507K1\_7 1613 CS5 19C2206 - 1613 CS5 19C2206

#	Name	Resp	RA	IV	RRF	wtAve	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.60e6	0.76	NO	0.92	1.000	26.36	1.001	316	105	0.0742	316
2	1,2,3,7,8-PeCDD	1.00e7	0.62	NO	0.90	1.000	31.14	1.001	1610	107	0.0869	1610
3	1,2,3,4,7,8-HxCDD	9.53e6	1.25	NO	1.07	1.000	34.42	1.001	1660	111	0.470	1660
4	1,2,3,6,7,8-HxCDD	1.02e7	1.25	NO	0.97	1.000	34.52	1.000	1560	104	0.446	1560
5	1,2,3,7,8,9-HxCDD	8.89e6	1.20	NO	0.96	1.000	34.81	1.000	1530	102	0.497	1530
6	1,2,3,4,6,7,8-HpCDD	7.58e6	1.05	NO	1.04	1.000	38.31	1.000	1570	105	0.634	1570
7	OCDD	1.35e7	0.90	NO	0.97	1.000	41.48	1.000	3210	107	1.20	3210
8	2,3,7,8-TCDF	3.44e6	0.76	NO	0.94	1.000	25.51	1.001	320	107	0.0867	320
9	1,2,3,7,8-PeCDF	1.58e7	1.57	NO	0.97	1.000	29.91	1.001	1600	106	0.255	1600
10	2,3,4,7,8-HxCDF	1.61e7	1.58	NO	1.00	1.000	30.86	1.001	1610	107	0.224	1610
11	1,2,3,4,7,8-HxCDF	1.38e7	1.24	NO	1.24	1.000	33.54	1.000	1580	105	0.629	1580
12	1,2,3,6,7,8-HxCDF	1.52e7	1.24	NO	1.10	1.000	33.68	1.000	1620	108	0.664	1620
13	2,3,4,6,7,8-HxCDF	1.40e7	1.24	NO	1.18	1.000	34.26	1.000	1640	109	0.693	1640
14	1,2,3,7,8,9-HxCDF	1.15e7	1.24	NO	1.07	1.000	35.19	1.001	1690	112	0.966	1690
15	1,2,3,4,6,7,8-HpCDF	1.14e7	1.04	NO	1.13	1.000	36.52	1.000	1620	108	0.852	1620
16	1,2,3,4,7,8,9-HpCDF	9.34e6	1.03	NO	1.26	1.000	38.87	1.000	1600	107	0.926	1600
17	OCDF	1.71e7	0.91	NO	1.10	1.000	41.71	1.000	2960	99.7	0.468	2960
18	13C-2,3,7,8-TCDD	8.87e5	0.78	NO	1.05	1.000	26.34	1.026	105	105	0.169	
19	13C-1,2,3,7,8-PeCDD	6.89e5	0.63	NO	0.74	1.000	31.12	1.212	115	115	0.166	
20	13C-1,2,3,4,7,8-HxCDD	5.37e5	1.27	NO	0.65	1.000	34.40	1.014	108	108	0.235	
21	13C-1,2,3,6,7,8-HxCDD	6.73e5	1.27	NO	0.78	1.000	34.51	1.017	113	113	0.196	
22	13C-1,2,3,7,8,9-HxCDD	5.82e5	1.25	NO	0.66	1.000	34.80	1.026	115	115	0.231	
23	13C-1,2,3,4,6,7,8-HpCDD	4.85e5	1.07	NO	0.53	1.000	38.31	1.129	113	113	0.326	



Dataset: Untitled

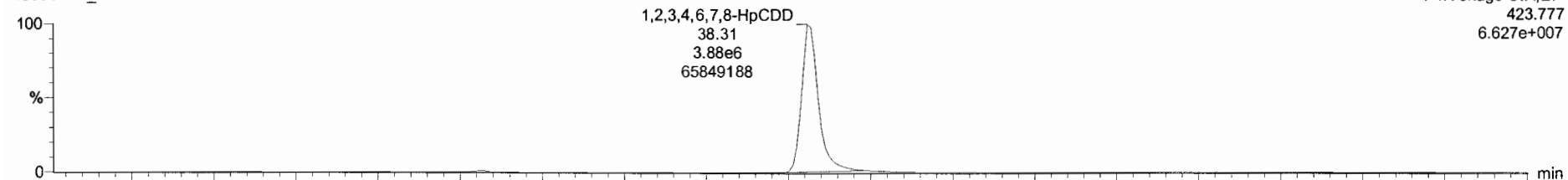
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

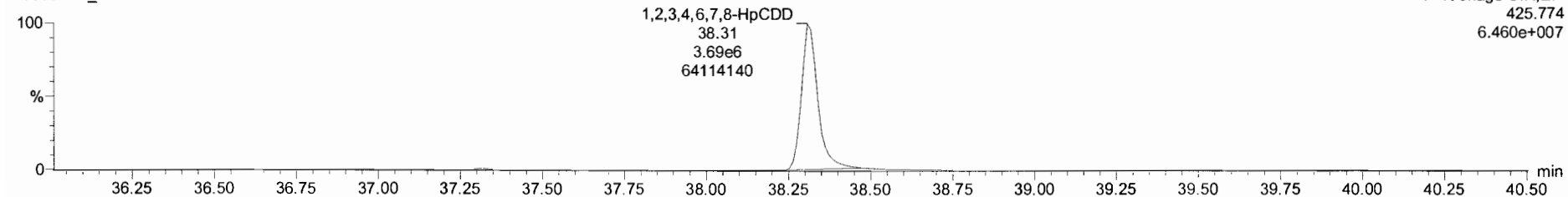
Name: 190507K1\_7, Date: 07-May-2019, Time: 15:27:02, ID: ST190507K1\_7 1613 CS5 19C2206, Description: 1613 CS5 19C2206

**1,2,3,4,6,7,8-HpCDD**

190507K1\_7

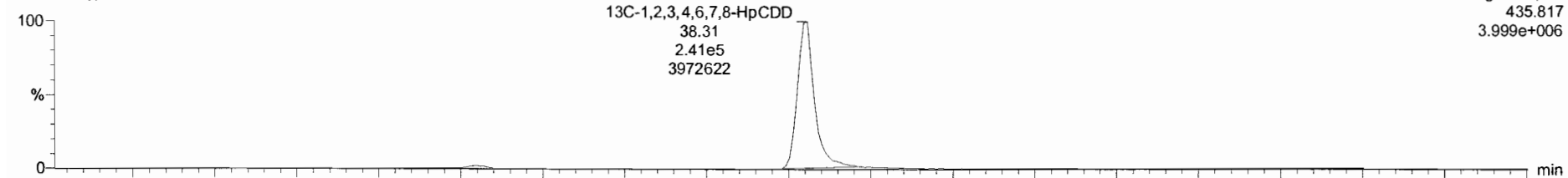


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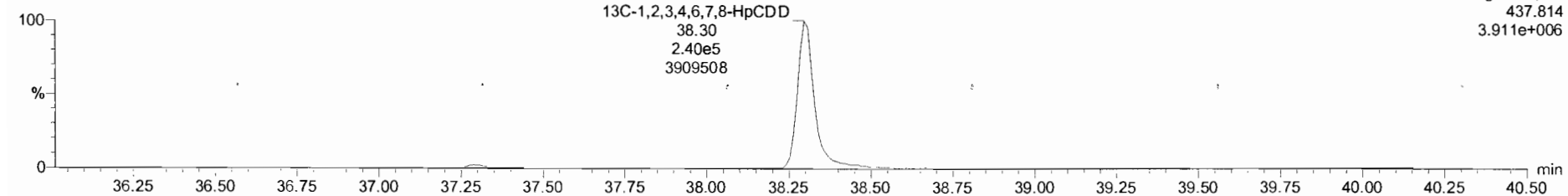


**13C-1,2,3,4,6,7,8-HpCDD**

190507K1\_7



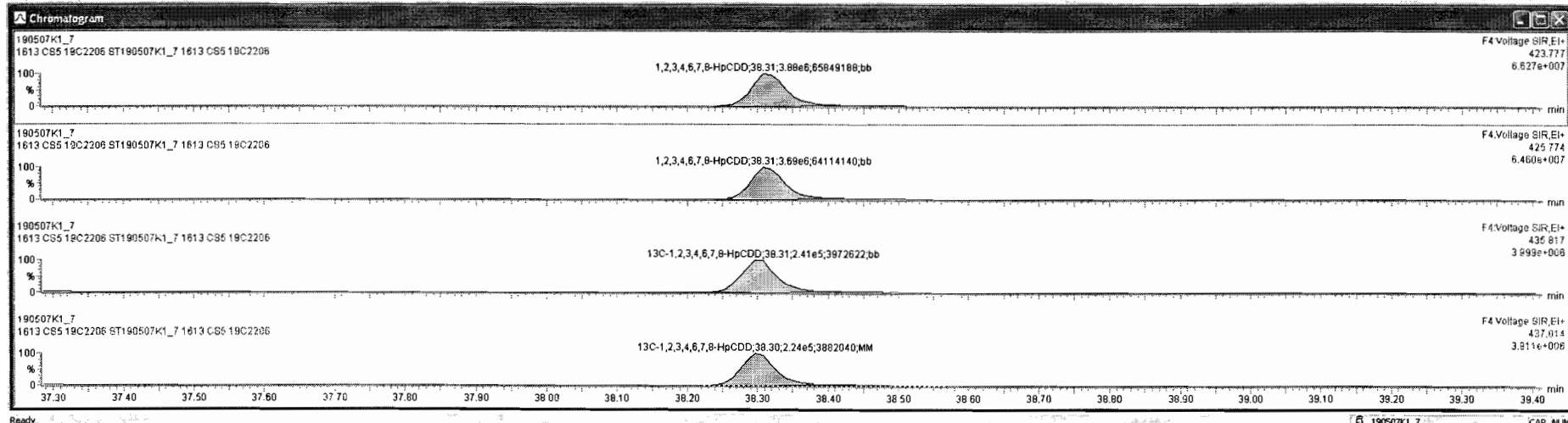
190507K1\_7



TargetLynx - 190507K1-CRV.qld

190507K1\_7 - ST190507K1\_7 1613 CS5 19C2206 - 1613 CS5 19C2206

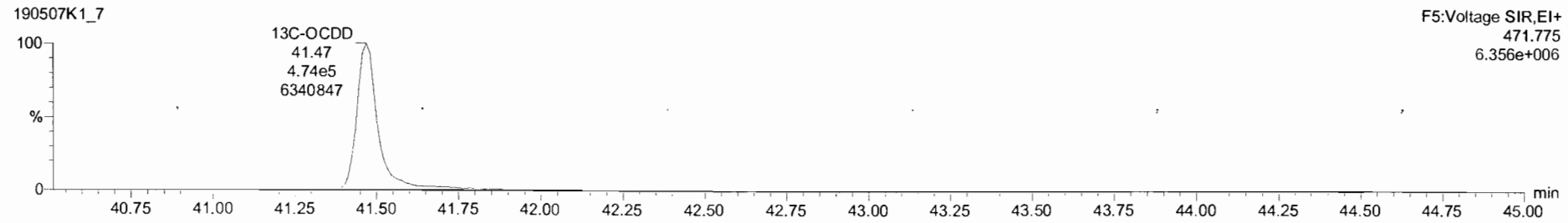
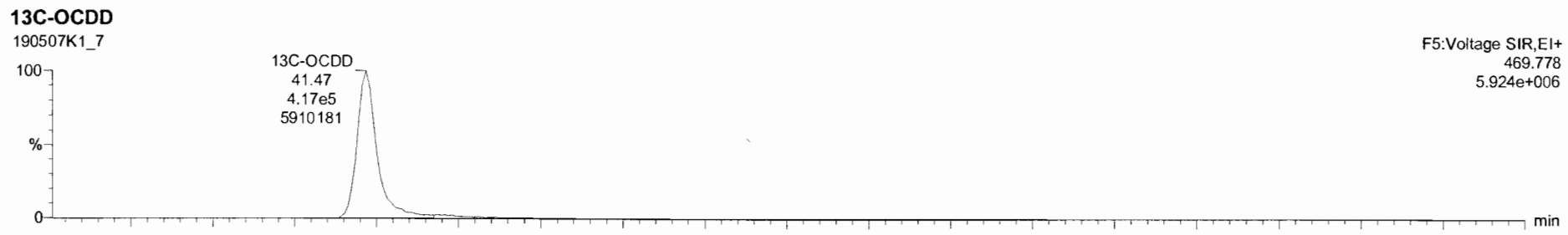
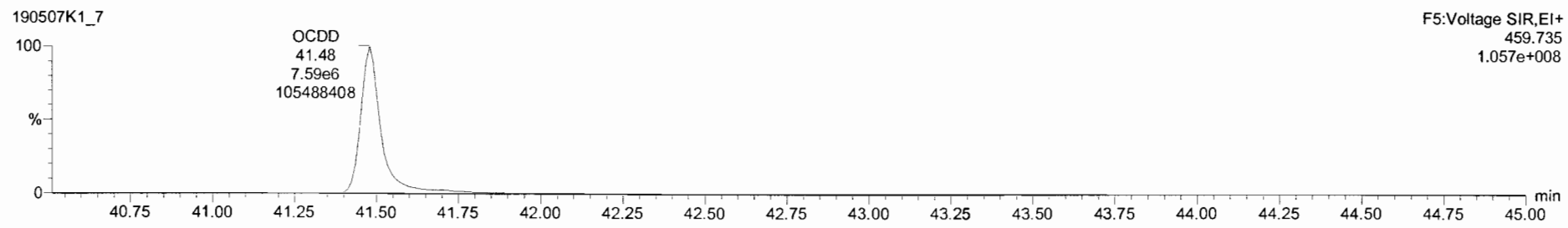
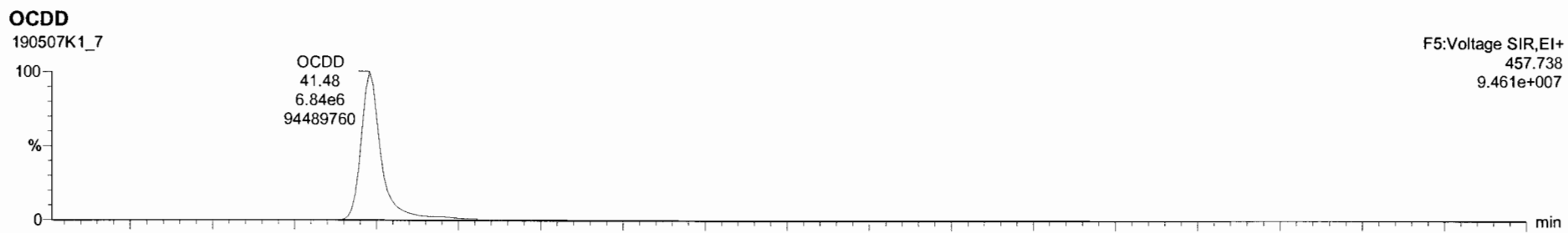
PKT	Name	Resp	RA	Inv	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.60e6	0.78	NO	0.92	1.000	26.36	1.001	316	105	0.0742	316
2	1,2,3,7,8-PeCDD	1.00e7	0.62	NO	0.90	1.000	31.14	1.001	1610	107	0.0868	1610
3	1,2,3,4,7,8-HxCDD	9.53e6	1.25	NO	1.07	1.000	34.42	1.001	1660	111	0.470	1660
4	1,2,3,6,7,8-HxCDD	1.02e7	1.25	NO	0.97	1.000	34.52	1.000	1560	104	0.446	1560
5	1,2,3,7,8-HxCDD	6.68e6	1.20	NO	0.98	1.000	34.81	1.000	1530	102	0.497	1530
6	1,2,3,4,6,7,8-HpCDD	7.59e6	1.05	NO	1.04	1.000	36.31	1.000	1570	105	0.634	1570
7	OCDD	1.35e7	0.90	NO	0.97	1.000	41.46	1.000	3210	107	1.20	3210
8	2,3,7,8-TCDF	3.44e6	0.78	NO	0.94	1.000	25.51	1.001	320	107	0.0997	320
9	1,2,3,7,8-PeCDF	1.59e7	1.57	NO	0.97	1.000	29.91	1.001	1600	106	0.255	1600
10	2,3,4,7,8-PeCDF	1.61e7	1.58	NO	1.00	1.000	30.86	1.001	1610	107	0.234	1610
11	1,2,3,4,7,8-HxCDF	1.38e7	1.24	NO	1.24	1.000	33.54	1.000	1580	105	0.629	1580
12	1,2,3,6,7,8-HxCDF	1.52e7	1.24	NO	1.10	1.000	33.66	1.000	1620	108	0.664	1620
13	2,3,4,6,7,8-HxCDF	1.40e7	1.24	NO	1.18	1.000	34.26	1.000	1540	109	0.693	1540
14	1,2,3,7,8-HxCDF	1.15e7	1.24	NO	1.07	1.000	35.19	1.001	1690	112	0.966	1690
15	1,2,3,4,6,7,8-HpCDF	1.14e7	1.04	NO	1.13	1.000	36.92	1.000	1620	108	0.892	1620
16	1,2,3,4,7,8,9-HpCDF	9.34e6	1.03	NO	1.26	1.000	36.87	1.000	1600	107	0.926	1600
17	OCDF	1.71e7	0.91	NO	1.10	1.000	41.71	1.000	2960	98.7	0.468	2960
18	13C-2,3,7,8-TCDD	8.87e5	0.78	NO	1.05	1.000	26.34	1.026	105	105	0.169	
19	13C-1,2,3,7,8-PeCDD	6.89e5	0.63	NO	0.74	1.000	31.12	1.212	115	115	0.168	
20	13C-1,2,3,4,7,8-HxCDD	5.37e5	1.27	NO	0.65	1.000	34.40	1.014	108	108	0.235	
21	13C-1,2,3,6,7,8-HxCDD	6.73e5	1.27	NO	0.78	1.000	34.51	1.017	113	113	0.198	
22	13C-1,2,3,7,8-HxCDD	5.82e5	1.25	NO	0.66	1.000	34.80	1.026	115	115	0.231	
23	13C-1,2,3,4,6,7,8-HpCDD	4.65e5	1.07	NO	0.53	1.000	36.31	1.129	113	113	0.326	



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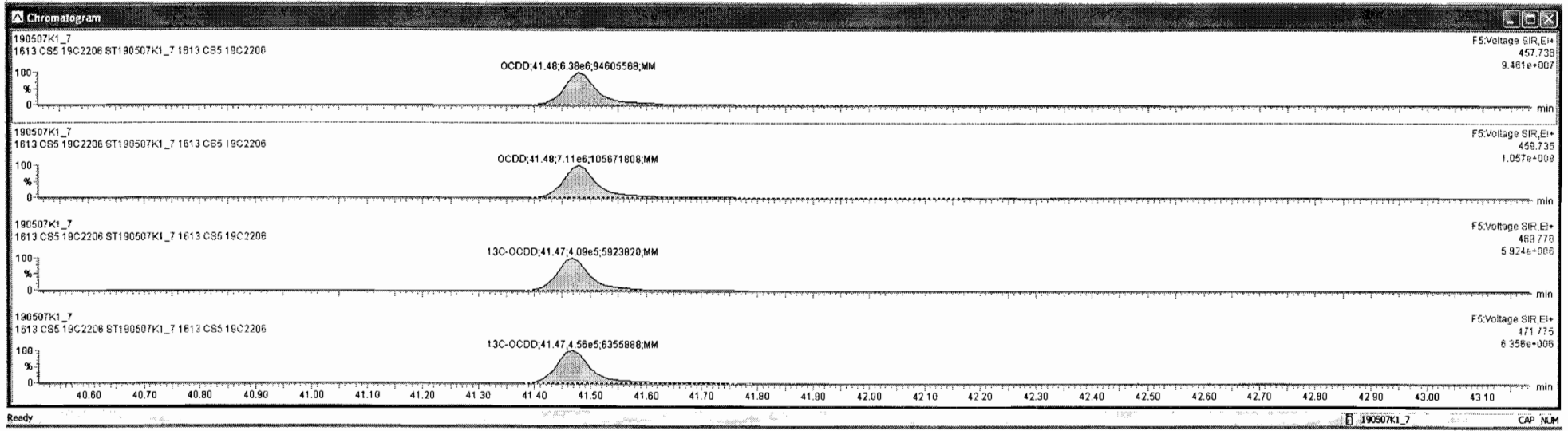
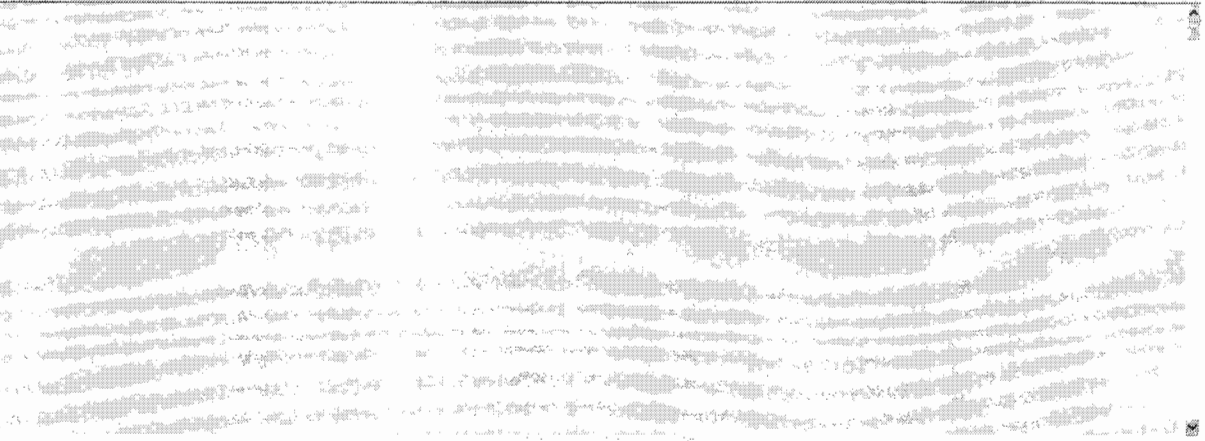
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_7, Date: 07-May-2019, Time: 15:27:02, ID: ST190507K1\_7 1613 CS5 19C2206, Description: 1613 CS5 19C2206



190507K1\_7 - ST190507K1\_7 1613 CS5 19C2206 - 1613 CS5 19C2206

Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.60e6	0.78	NO	0.92	1.000	26.36	1.001	316	105	0.0742	316
2 1,2,3,7,8-PeCDD	1.00e7	0.62	NO	0.90	1.000	31.14	1.001	1610	107	0.0868	1610
3 1,2,3,4,7,8-HxCDD	9.53e6	1.25	NO	1.07	1.000	34.42	1.001	1660	111	0.470	1660
4 1,2,3,6,7,8-HxCDD	1.02e7	1.25	NO	0.97	1.000	34.52	1.000	1590	104	0.446	1560
5 1,2,3,7,8,9-HxCDD	8.68e6	1.20	NO	0.98	1.000	34.81	1.000	1530	102	0.497	1530
6 1,2,3,4,6,7,8-HpCDD	7.58e6	1.05	NO	1.04	1.000	38.31	1.000	1570	105	0.634	1570
7 OCDD	1.35e7	0.90	NO	0.97	1.000	41.46	1.000	3210	107	1.20	3210
8 2,3,7,8-TCDF	3.44e6	0.78	NO	0.94	1.000	25.51	1.001	320	107	0.0867	320
9 1,2,3,7,8-PeCDF	1.58e7	1.57	NO	0.97	1.000	29.91	1.001	1600	106	0.255	1600
10 2,3,4,7,8-PeCDF	1.61e7	1.58	NO	1.00	1.000	30.86	1.001	1610	107	0.234	1610
11 1,2,3,4,7,8-HxCDF	1.38e7	1.24	NO	1.24	1.000	33.54	1.000	1590	105	0.629	1590
12 1,2,3,6,7,8-HxCDF	1.52e7	1.24	NO	1.10	1.000	33.68	1.000	1620	108	0.664	1620
13 2,3,4,6,7,8-HxCDF	1.40e7	1.24	NO	1.18	1.000	34.26	1.000	1640	109	0.693	1640
14 1,2,3,7,8,9-HxCDF	1.15e7	1.24	NO	1.07	1.000	35.19	1.001	1690	112	0.966	1690
15 1,2,3,4,6,7,8-HpCDF	1.14e7	1.04	NO	1.13	1.000	36.92	1.000	1620	108	0.892	1620
16 1,2,3,4,7,8,9-HpCDF	9.34e6	1.03	NO	1.26	1.000	36.67	1.000	1600	107	0.926	1600
17 OCDF	1.71e7	0.91	NO	1.10	1.000	41.71	1.000	2960	98.7	0.466	2960
18 13C-2,3,7,8-TCDD	8.87e5	0.78	NO	1.05	1.000	26.34	1.026	105	105	0.169	
19 13C-1,2,3,7,8-PeCDD	6.89e5	0.63	NO	0.74	1.000	31.12	1.212	115	115	0.166	
20 13C-1,2,3,4,7,8-HxCDD	5.37e5	1.27	NO	0.85	1.000	34.40	1.014	108	108	0.235	
21 13C-1,2,3,6,7,8-HxCDD	6.73e5	1.27	NO	0.78	1.000	34.51	1.017	113	113	0.196	
22 13C-1,2,3,7,8,9-HxCDD	5.82e5	1.25	NO	0.66	1.000	34.80	1.026	115	115	0.231	
23 13C-1,2,3,4,6,7,8-HpCDD	4.85e5	1.07	NO	0.53	1.000	38.31	1.129	113	113	0.326	



Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

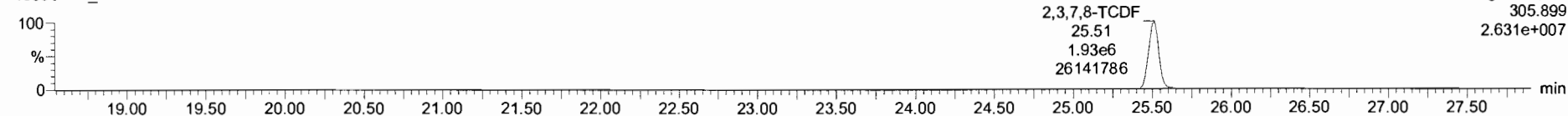
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### 2,3,7,8-TCDF

190507K1\_7

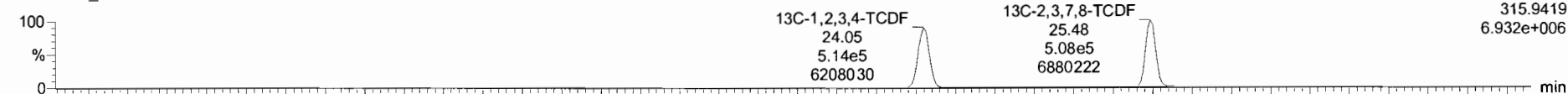


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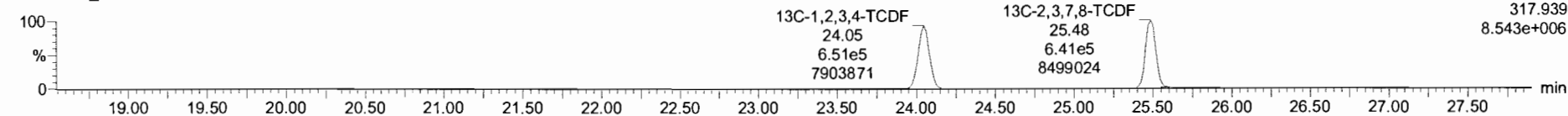


### 13C-2,3,7,8-TCDF

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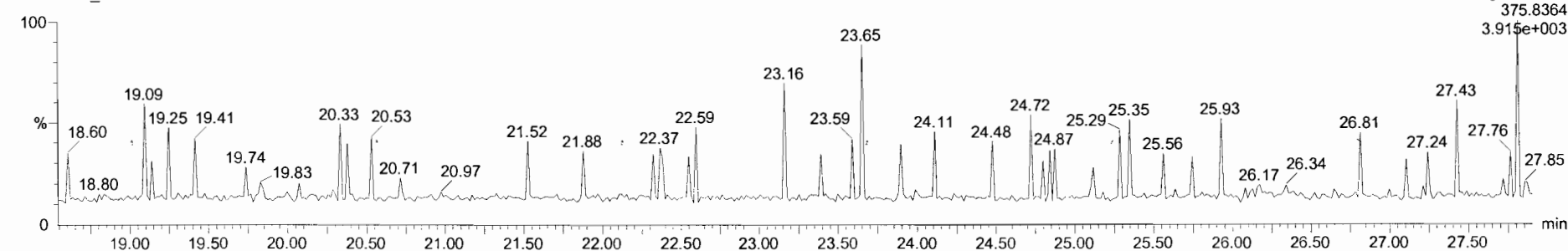


190507K1\_7



### DPE1

190507K1\_7



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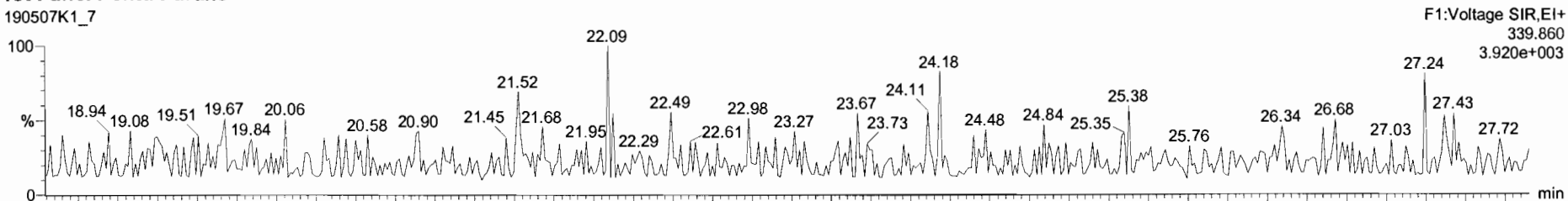
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

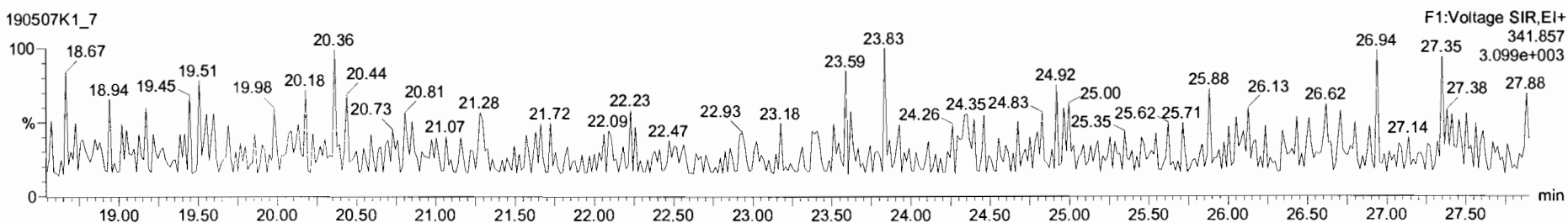
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1st Func. Penta-Furans

190507K1\_7

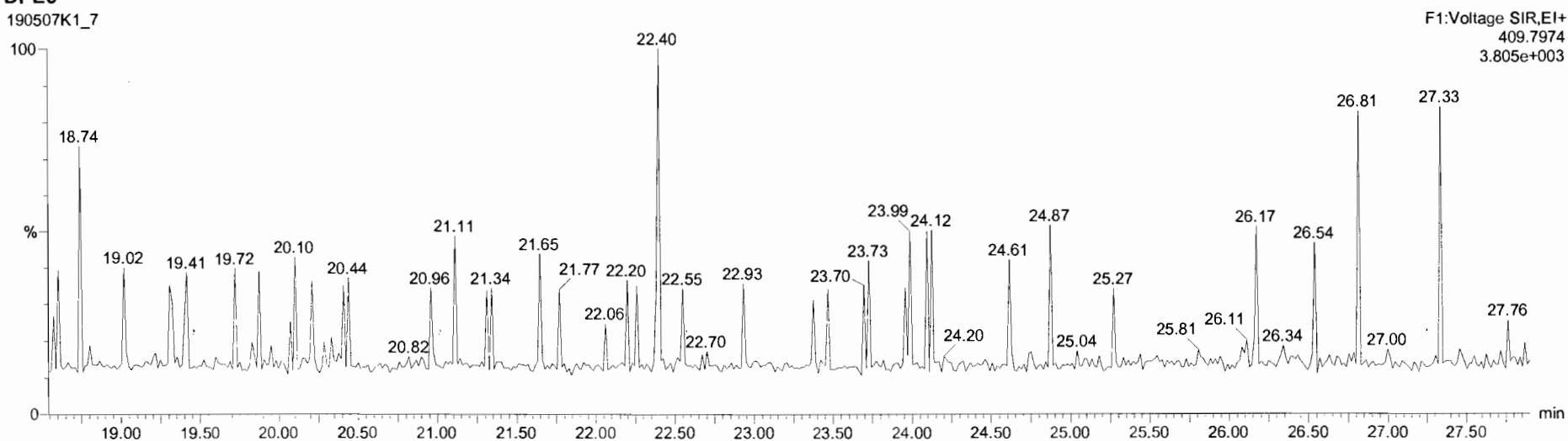


190507K1\_7



DPE6

190507K1\_7





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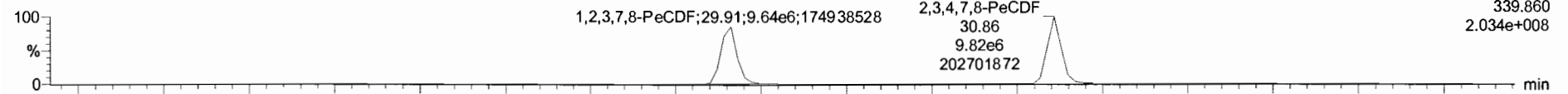
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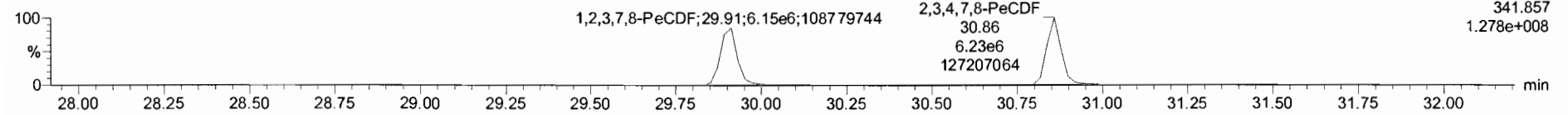
**1,2,3,7,8-PeCDF**

190507K1\_7



F2:Voltage SIR,EI+  
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2.034e+008

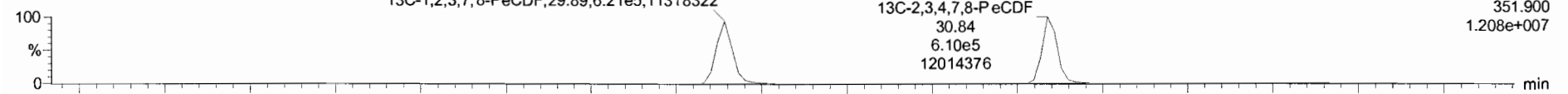
190507K1\_7



F2:Voltage SIR,EI+  
341,857  
1.278e+008

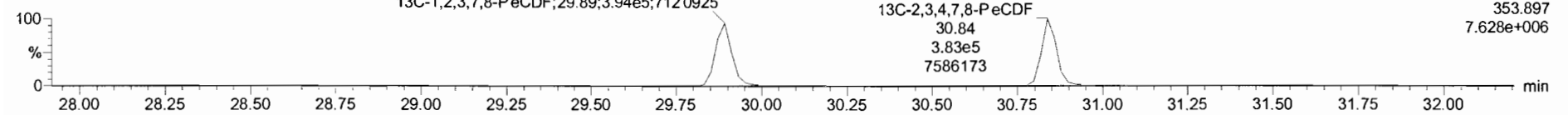
**13C-1,2,3,7,8-PeCDF**

190507K1\_7



F2:Voltage SIR,EI+  
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1.208e+007

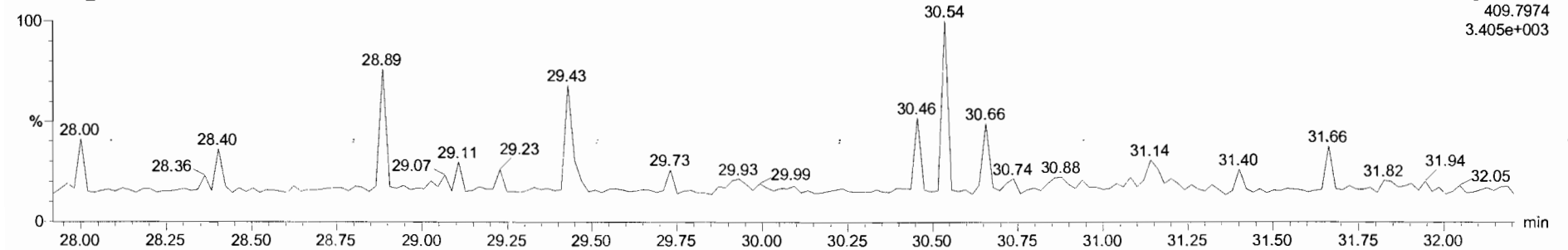
190507K1\_7



F2:Voltage SIR,EI+  
353,897  
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**DPE2**

190507K1\_7



F2:Voltage SIR,EI+  
409,7974  
3.405e+003

Dataset: Untitled

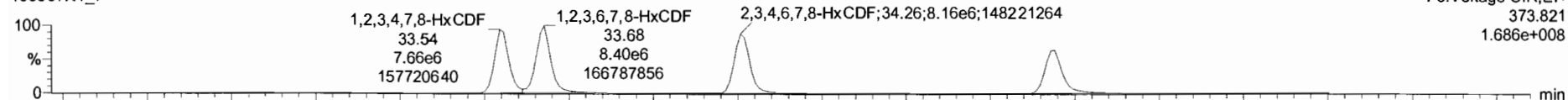
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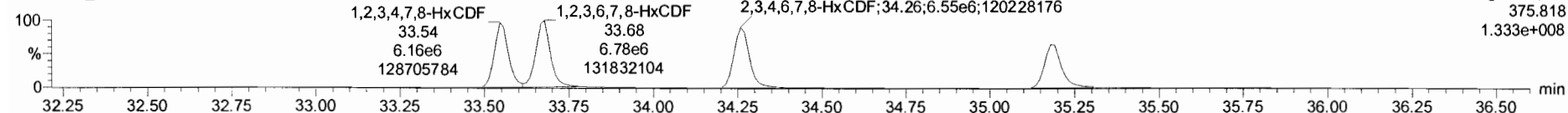
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**1,2,3,4,7,8-HxCDF**

190507K1\_7

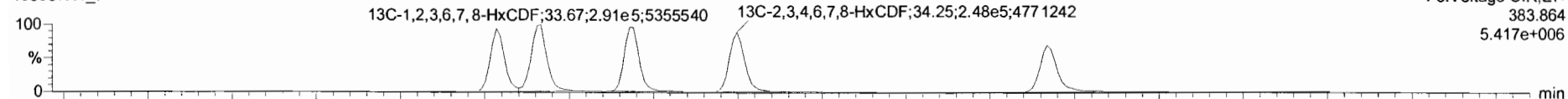


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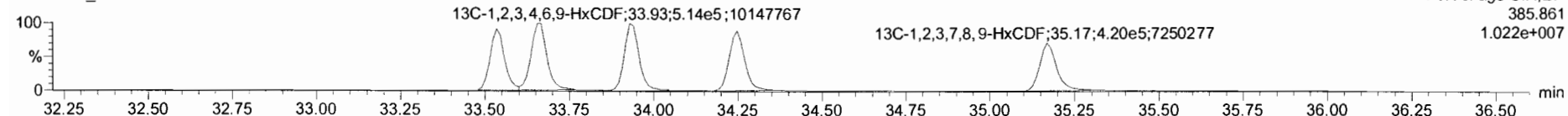


**13C-1,2,3,4,7,8-HxCDF**

190507K1\_7

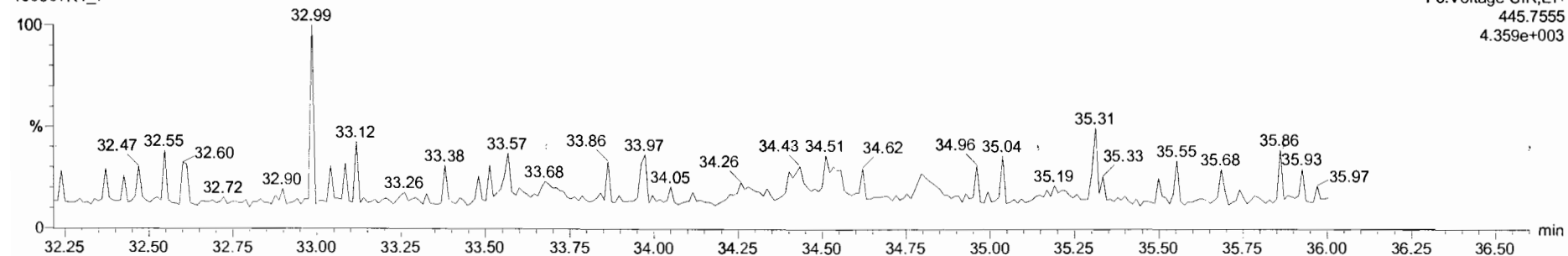


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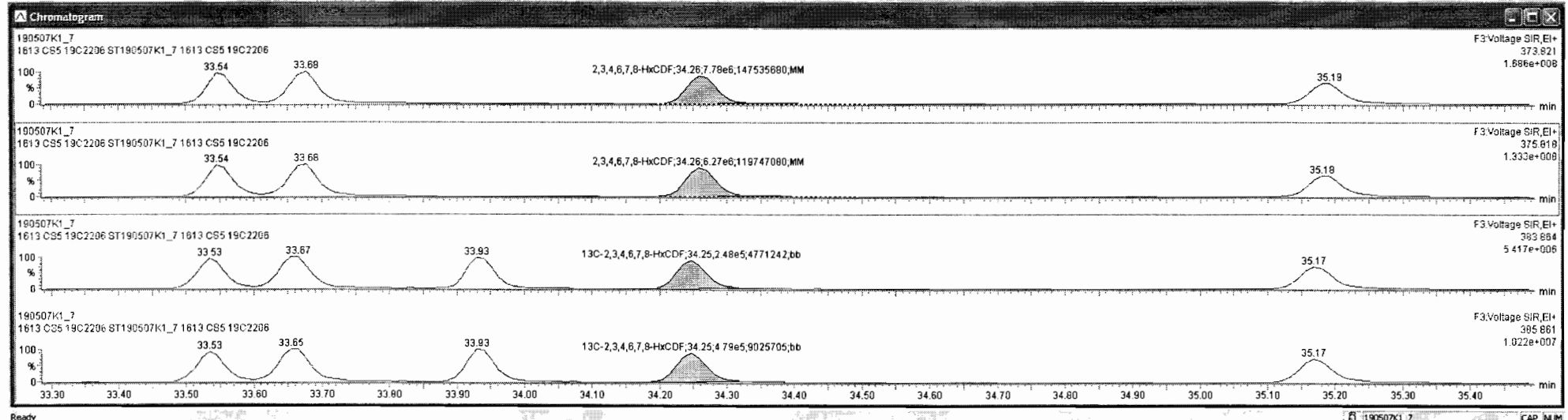
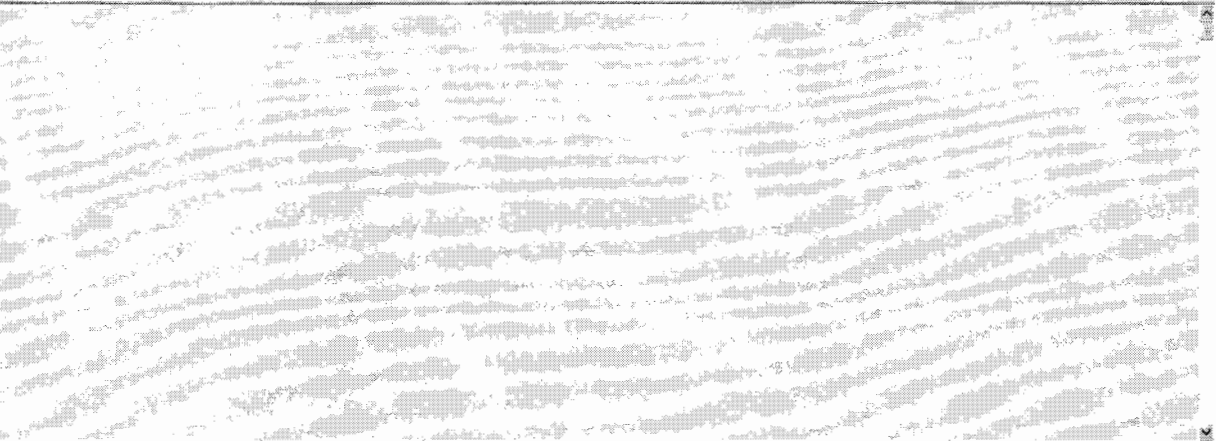


**DPE3**

190507K1\_7

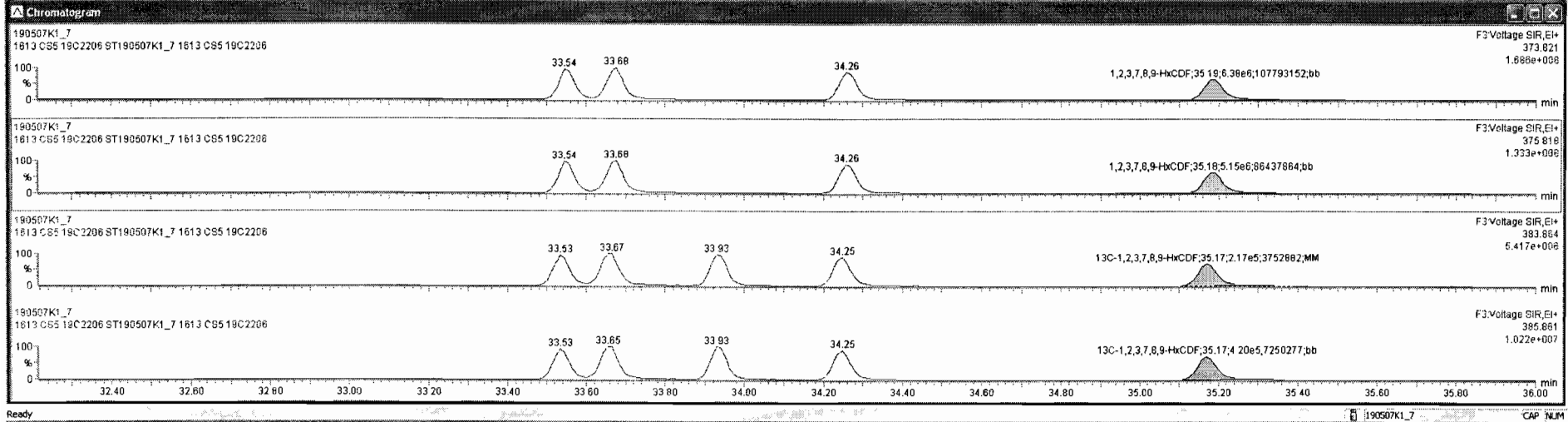
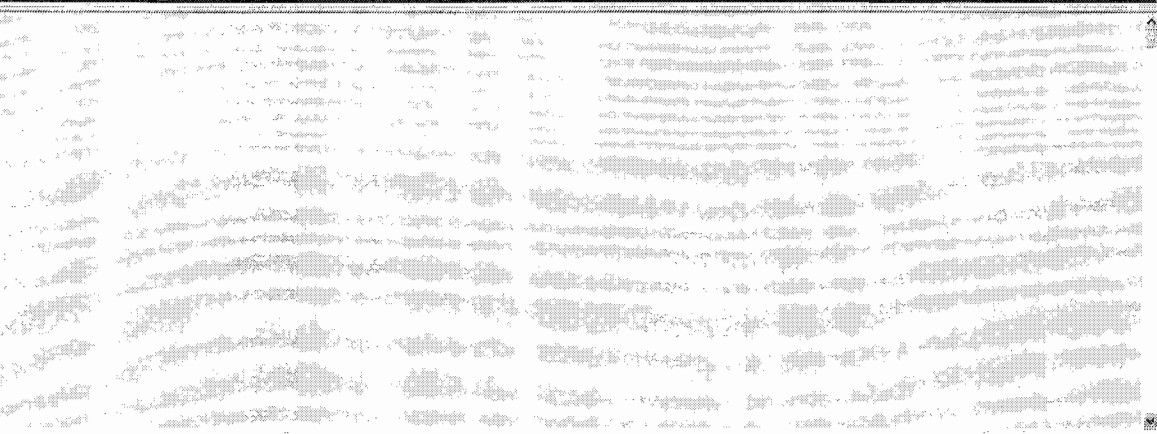


Name	Resp	RA	nAy	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.60e6	0.78	NO	0.92	1.000	26.36	1.001	316	105	0.0742	316
2 1,2,3,7,8-PeCDD	1.00e7	0.62	NO	0.90	1.000	31.14	1.001	1610	107	0.0868	1610
3 1,2,3,4,7,8-HxCDD	9.53e6	1.25	NO	1.07	1.000	34.42	1.001	1660	111	0.470	1660
4 1,2,3,6,7,8-HxCDD	1.02e7	1.25	NO	0.97	1.000	34.52	1.000	1560	104	0.446	1560
5 1,2,3,7,8,9-HxCDD	8.88e6	1.20	NO	0.98	1.000	34.81	1.000	1530	102	0.497	1530
6 1,2,3,4,6,7,8-HpCDD	7.58e6	1.05	NO	1.04	1.000	38.31	1.000	1570	105	0.634	1570
7 OCDD	1.35e7	0.90	NO	0.97	1.000	41.48	1.000	3210	107	1.20	3210
8 2,3,7,8-TCDF	3.44e6	0.78	NO	0.94	1.000	25.51	1.001	320	107	0.0887	320
9 1,2,3,7,8-PeCDF	1.58e7	1.57	NO	0.97	1.000	29.91	1.001	1600	106	0.255	1600
10 2,3,4,7,8-PeCDF	1.61e7	1.58	NO	1.00	1.000	30.86	1.001	1610	107	0.234	1610
11 1,2,3,4,7,8-HxCDF	1.38e7	1.24	NO	1.24	1.000	33.54	1.000	1580	105	0.529	1580
12 1,2,3,6,7,8-HxCDF	1.52e7	1.24	NO	1.10	1.000	33.68	1.000	1620	108	0.664	1620
13 2,3,4,6,7,8-HxCDF	1.40e7	1.24	NO	1.18	1.000	34.26	1.000	1490	109	0.683	1490
14 1,2,3,7,8,9-HxCDF	1.15e7	1.24	NO	1.07	1.000	35.19	1.001	1690	112	0.966	1690
15 1,2,3,4,6,7,8-HpCDF	1.14e7	1.04	NO	1.13	1.000	36.92	1.000	1620	108	0.852	1620
16 1,2,3,4,7,8,9-HpCDF	9.34e6	1.03	NO	1.26	1.000	38.87	1.000	1600	107	0.926	1600
17 OCDF	1.71e7	0.91	NO	1.10	1.000	41.71	1.000	2960	98.7	0.468	2960
18 13C-2,3,7,8-TCDD	8.87e5	0.78	NO	1.05	1.000	26.34	1.026	105	105	0.169	
19 13C-1,2,3,7,8-PeCDD	6.89e5	0.63	NO	0.74	1.000	31.12	1.212	115	115	0.166	
20 13C-1,2,3,4,7,8-HxCDD	5.37e5	1.27	NO	0.55	1.000	34.40	1.014	108	108	0.235	
21 13C-1,2,3,6,7,8-HxCDD	6.73e5	1.27	NO	0.78	1.000	34.51	1.017	113	113	0.196	
22 13C-1,2,3,7,8,9-HxCDD	5.82e5	1.25	NO	0.86	1.000	34.80	1.026	115	115	0.231	
23 13C-1,2,3,4,6,7,8-HpCDD	4.65e5	1.07	NO	0.53	1.000	38.31	1.129	113	113	0.326	



190507K1\_7-ST190507K1\_7\_1613 CS5 19C2206 - 1613 CS5 19C2206

Name	Resp	RA	RY	RRF	wt/val	RT	RRF	Conc	%Rec	DL	EMPG
1 2,3,7,8-TCDD	2.60e6	0.78	NO	0.92	1.000	26.36	1.001	316	105	0.0742	316
2 1,2,3,7,8-PeCDD	1.00e7	0.62	NO	0.90	1.000	31.14	1.001	1610	107	0.0868	1610
3 1,2,3,4,7,8-HxCDD	9.53e6	1.25	NO	1.07	1.000	34.42	1.001	1680	111	0.470	1680
4 1,2,3,6,7,8-HxCDD	1.02e7	1.25	NO	0.97	1.000	34.52	1.000	1560	104	0.446	1560
5 1,2,3,7,8,9-HxCDD	8.68e6	1.20	NO	0.99	1.000	34.81	1.000	1530	102	0.497	1530
6 1,2,3,4,6,7,8-HpCDD	7.58e6	1.05	NO	1.04	1.000	38.31	1.000	1570	105	0.634	1570
7 OCDD	1.35e7	0.90	NO	0.97	1.000	41.46	1.000	3210	107	1.20	3210
8 2,3,7,8-TCDF	3.44e6	0.78	NO	0.94	1.000	25.51	1.001	320	107	0.0887	320
9 1,2,3,7,8-PeCDF	1.58e7	1.57	NO	0.97	1.000	29.91	1.001	1600	106	0.255	1600
10 2,3,4,7,8-PeCDF	1.81e7	1.58	NO	1.00	1.000	30.86	1.001	1610	107	0.234	1610
11 1,2,3,4,7,8-HxCDF	1.38e7	1.24	NO	1.24	1.000	33.54	1.000	1580	105	0.629	1580
12 1,2,3,6,7,8-HxCDF	1.52e7	1.24	NO	1.10	1.000	33.68	1.000	1620	108	0.664	1620
13 2,3,4,6,7,8-HxCDF	1.40e7	1.24	NO	1.18	1.000	34.26	1.000	1640	109	0.693	1640
14 1,2,3,7,8,9-HxCDF	1.15e7	1.24	NO	1.07	1.000	35.13	1.001	1690	112	0.968	1690
15 1,2,3,4,6,7,8-HpCDF	1.14e7	1.04	NO	1.13	1.000	36.92	1.000	1620	108	0.892	1620
16 1,2,3,4,7,8,9-HpCDF	9.34e6	1.03	NO	1.26	1.000	36.87	1.000	1600	107	0.928	1600
17 OCDF	1.71e7	0.91	NO	1.10	1.000	41.71	1.000	2960	98.7	0.468	2960
18 13C-2,3,7,8-TCDD	8.87e5	0.78	NO	1.05	1.000	26.34	1.026	105	105	0.189	
19 13C-1,2,3,7,8-PeCDD	6.89e5	0.63	NO	0.74	1.000	31.12	1.212	115	115	0.166	
20 13C-1,2,3,4,7,8-HxCDD	5.37e5	1.27	NO	0.65	1.000	34.40	1.014	108	108	0.235	
21 13C-1,2,3,6,7,8-HxCDD	6.73e5	1.27	NO	0.78	1.000	34.51	1.017	113	113	0.196	
22 13C-1,2,3,7,8,9-HxCDD	5.82e5	1.25	NO	0.66	1.000	34.80	1.026	115	115	0.231	
23 13C-1,2,3,4,6,7,8-HpCDD	4.65e5	1.07	NO	0.53	1.000	38.31	1.129	113	113	0.326	



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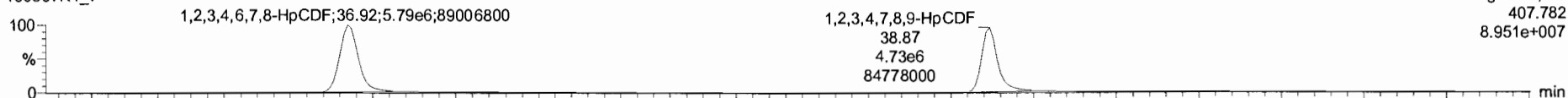
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_7, Date: 07-May-2019, Time: 15:27:02, ID: ST190507K1\_7 1613 CS5 19C2206, Description: 1613 CS5 19C2206

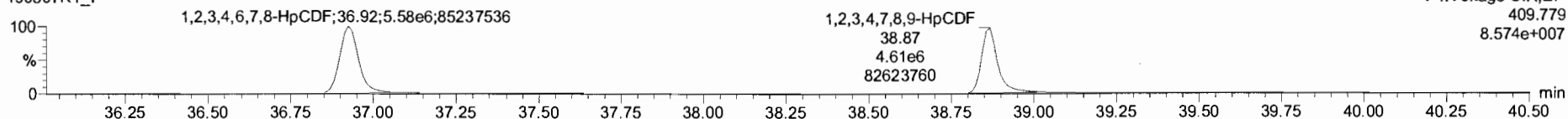
### 1,2,3,4,6,7,8-HpCDF

190507K1\_7



F4:Voltage SIR,EI+  
407.782  
8.951e+007

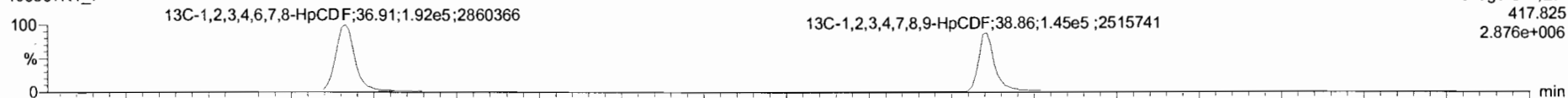
190507K1\_7



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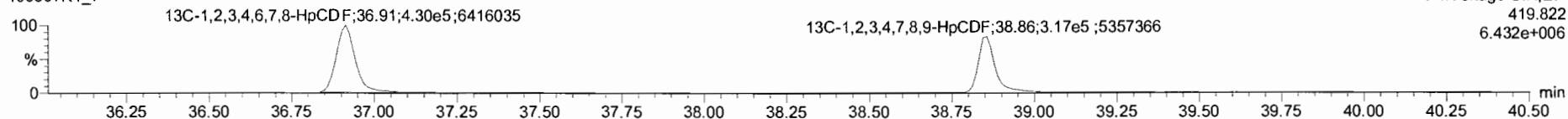
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190507K1\_7



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2.876e+006

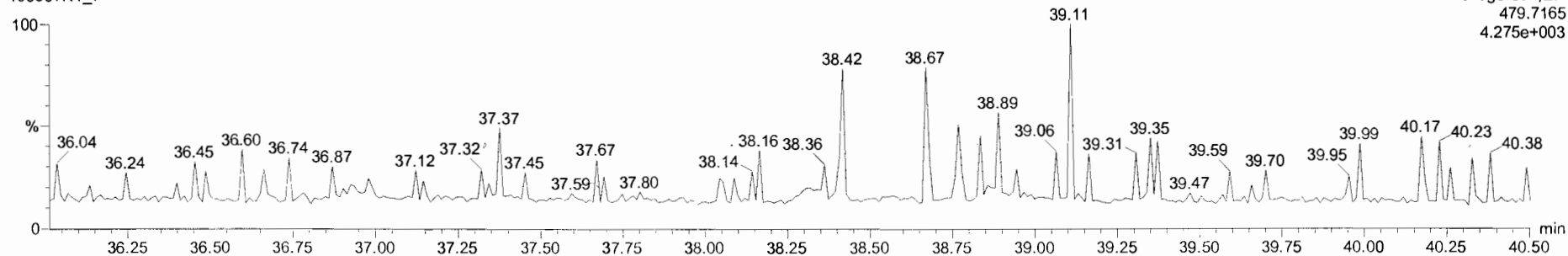
190507K1\_7



F4:Voltage SIR,EI+  
419.822  
6.432e+006

### DPE4

190507K1\_7



F4:Voltage SIR,EI+  
479.7165  
4.275e+003

Dataset: Untitled

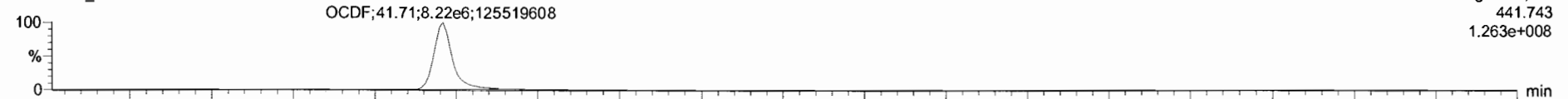
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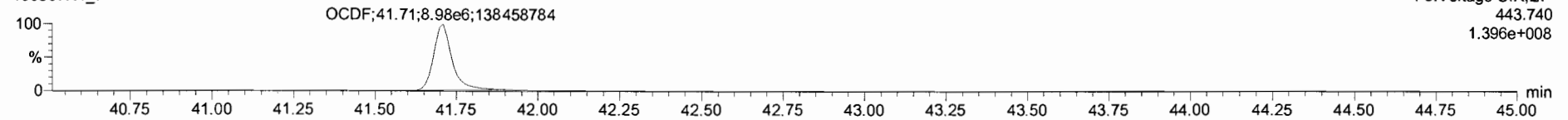
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**OCDF**

190507K1\_7

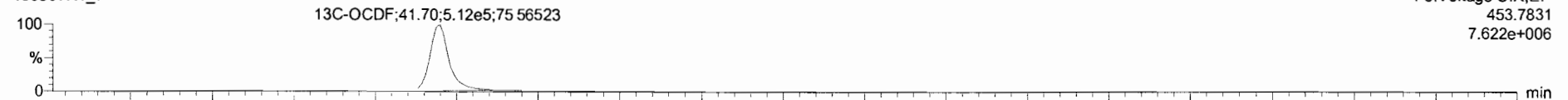


190507K1\_7

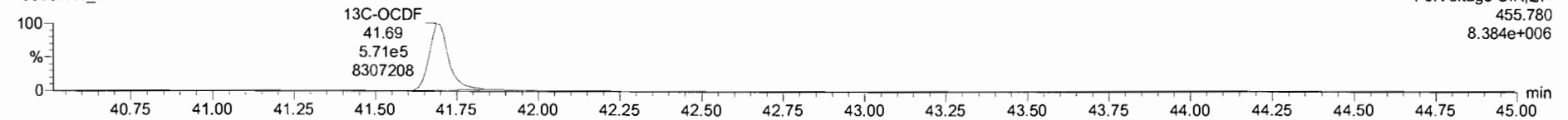


**13C-OCDF**

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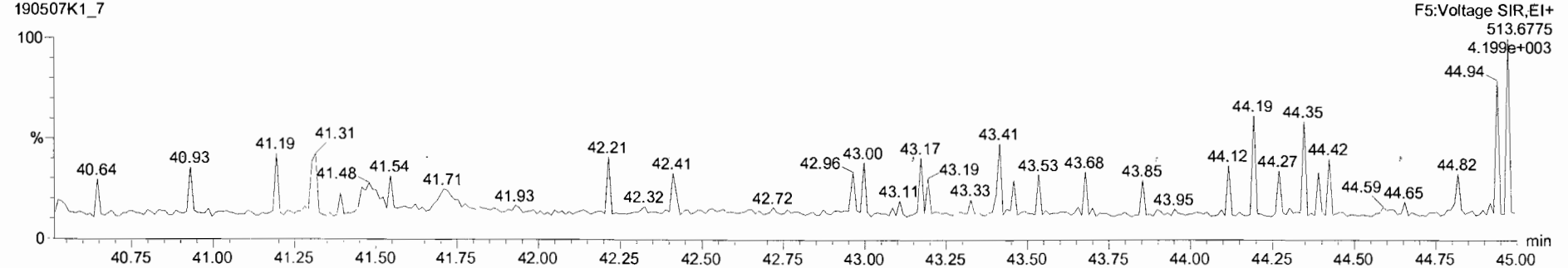


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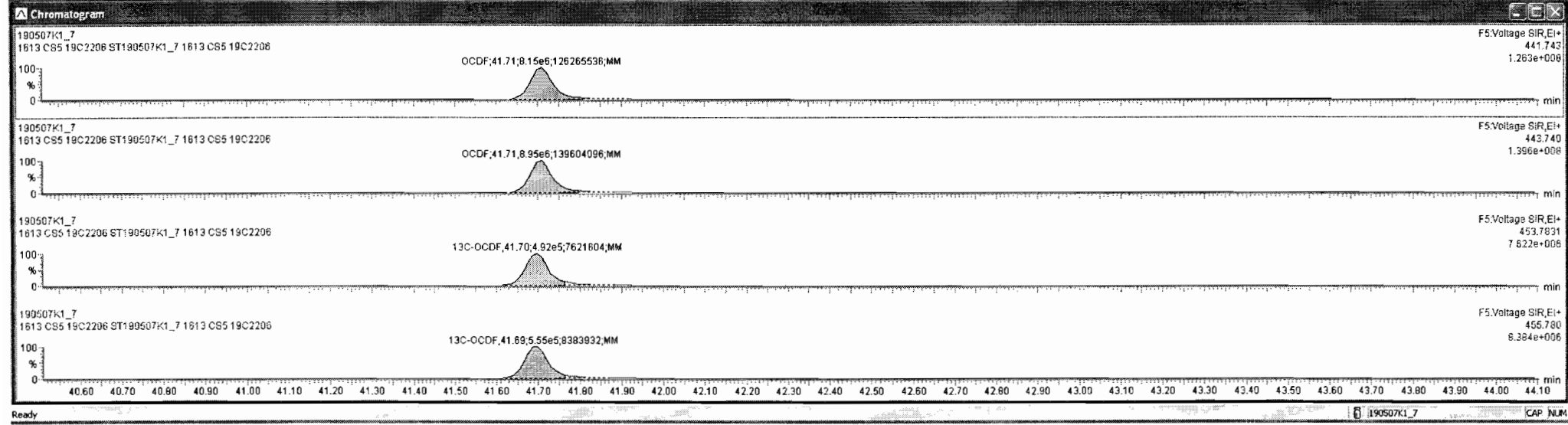
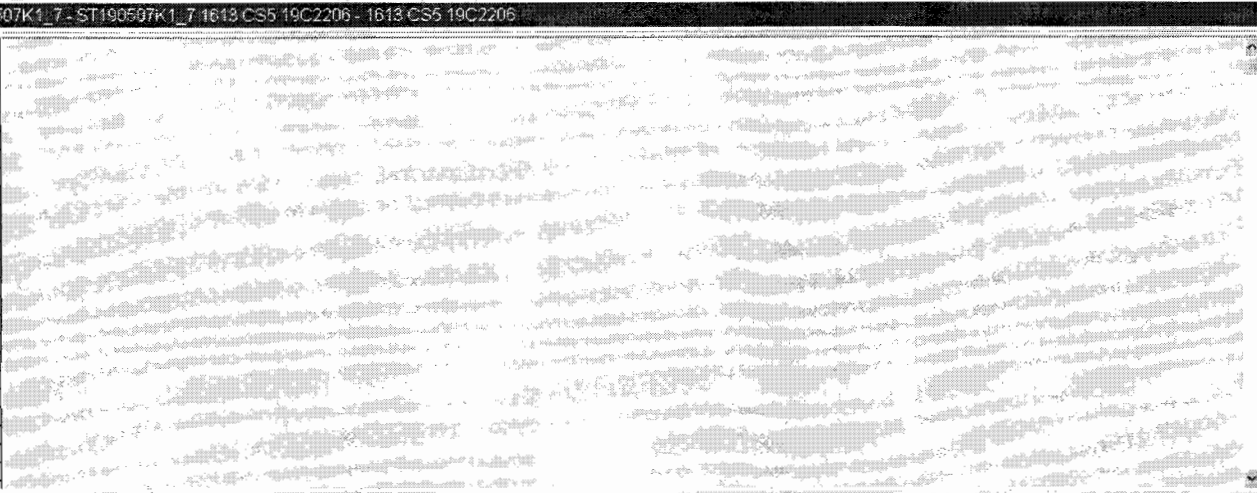


**DPE5**

190507K1\_7



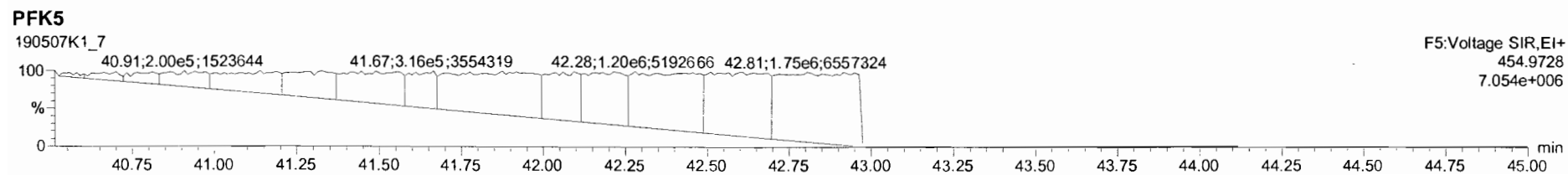
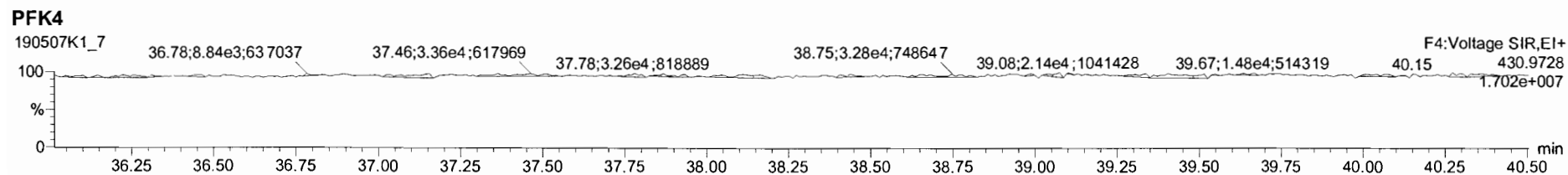
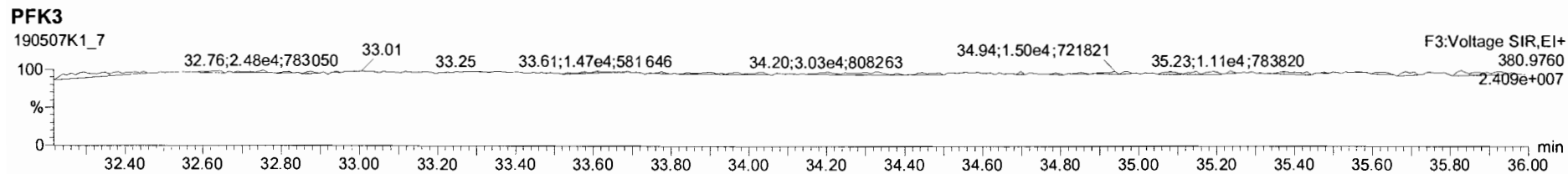
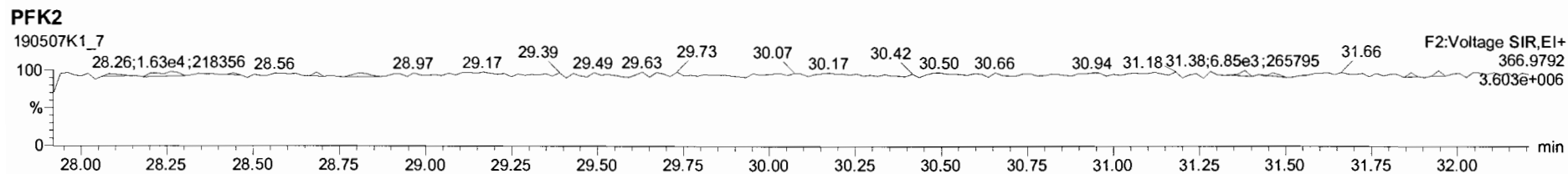
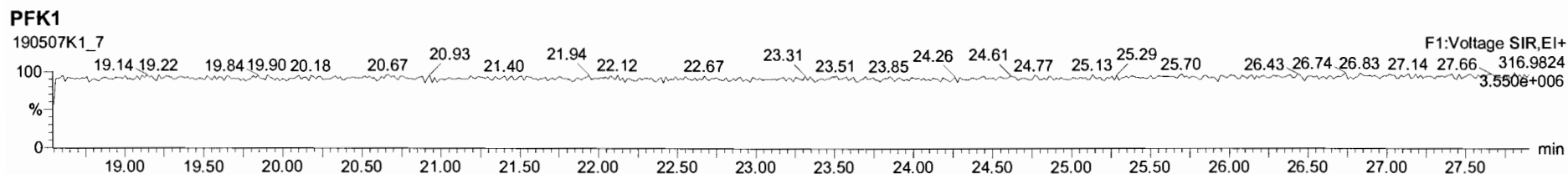
Name	Resp	RA	nly	RFF	wMVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.60e6	0.78	NO	0.92	1.000	26.36	1.001	316	105	0.0742	316
2 1,2,3,7,8-PeCDD	1.00e7	0.82	NO	0.90	1.000	31.14	1.001	1610	107	0.0888	1610
3 1,2,3,4,7,8-HxCDD	9.53e6	1.25	NO	1.07	1.000	34.42	1.001	1660	111	0.470	1660
4 1,2,3,6,7,8-HxCDD	1.02e7	1.25	NO	0.97	1.000	34.52	1.000	1560	104	0.446	1560
5 1,2,3,7,8,9-HxCDD	8.68e6	1.20	NO	0.98	1.000	34.81	1.000	1530	102	0.497	1530
6 1,2,3,4,6,7,8-HpCDD	7.58e6	1.05	NO	1.04	1.000	38.31	1.000	1570	105	0.634	1570
7 OCDD	1.35e7	0.90	NO	0.97	1.000	41.48	1.000	3210	107	1.20	3210
8 2,3,7,8-TCDF	3.44e6	0.78	NO	0.94	1.000	25.51	1.001	320	107	0.0887	320
9 1,2,3,7,8-PeCDF	1.58e7	1.57	NO	0.97	1.000	29.91	1.001	1600	106	0.255	1600
10 2,3,4,7,8-PeCDF	1.61e7	1.58	NO	1.00	1.000	30.86	1.001	1610	107	0.234	1610
11 1,2,3,4,7,8-HxCDF	1.36e7	1.24	NO	1.24	1.000	33.54	1.000	1590	105	0.628	1590
12 1,2,3,6,7,8-HxCDF	1.52e7	1.24	NO	1.10	1.000	33.68	1.000	1620	108	0.664	1620
13 2,3,4,6,7,8-HxCDF	1.40e7	1.24	NO	1.18	1.000	34.26	1.000	1640	109	0.693	1640
14 1,2,3,7,8,9-HxCDF	1.15e7	1.24	NO	1.07	1.000	35.19	1.001	1690	112	0.966	1690
15 1,2,3,4,6,7,8-HpCDF	1.14e7	1.04	NO	1.13	1.000	36.92	1.000	1620	108	0.892	1620
16 1,2,3,4,7,8,9-HpCDF	9.34e6	1.03	NO	1.26	1.000	38.87	1.000	1600	107	0.926	1600
17 OCDF	1.71e7	0.91	NO	1.10	1.000	41.71	1.000	2960	96.7	0.468	2960
18 13C-2,3,7,8-TCDD	8.87e5	0.78	NO	1.05	1.000	26.34	1.026	105	105	0.169	
19 13C-1,2,3,7,8-PeCDD	6.89e5	0.83	NO	0.74	1.000	31.12	1.212	115	115	0.166	
20 13C-1,2,3,4,7,8-HxCDD	5.37e5	1.27	NO	0.65	1.000	34.40	1.014	108	108	0.235	
21 13C-1,2,3,6,7,8-HxCDD	6.73e5	1.27	NO	0.78	1.000	34.51	1.017	113	113	0.196	
22 13C-1,2,3,7,8,9-HxCDD	5.82e5	1.25	NO	0.66	1.000	34.80	1.026	115	115	0.231	
23 13C-1,2,3,4,6,7,8-HpCDD	4.65e5	1.07	NO	0.53	1.000	38.31	1.129	113	113	0.326	



Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

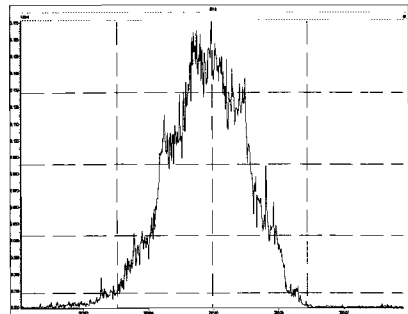
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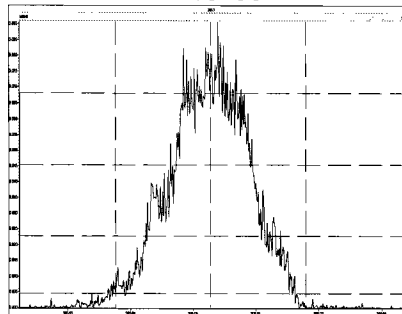


Printed: Tuesday, May 07, 2019 17:12:33 Pacific Daylight Time

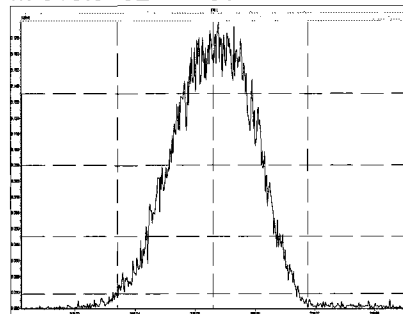
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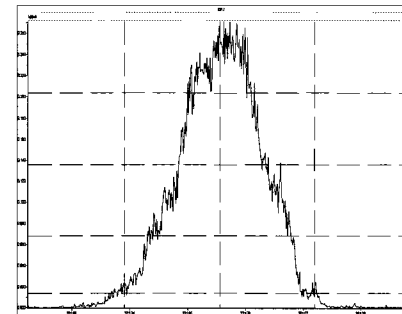
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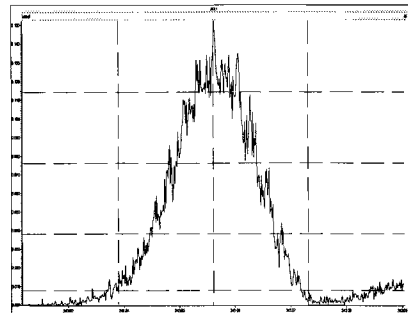
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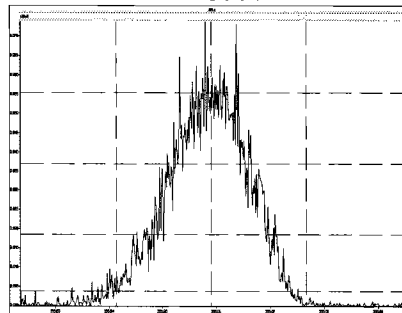
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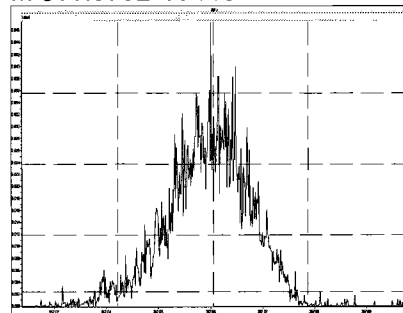
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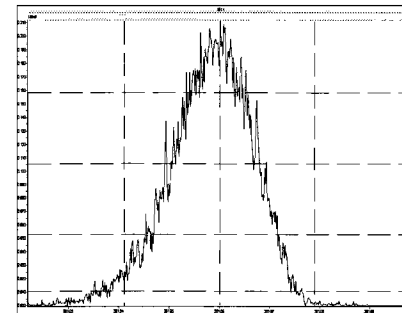
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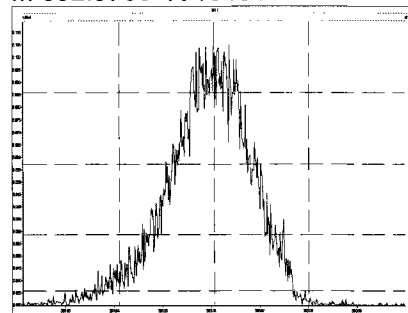
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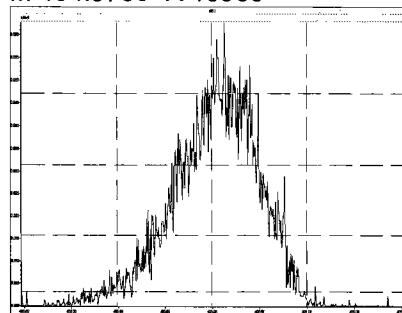
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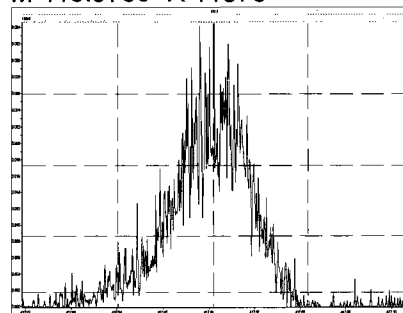
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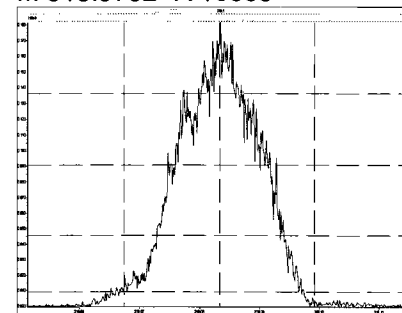
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M 416.9760 R 11876

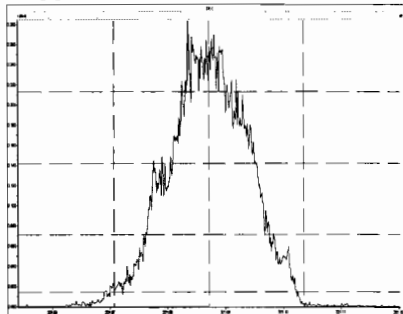


M 318.9792 R 10663

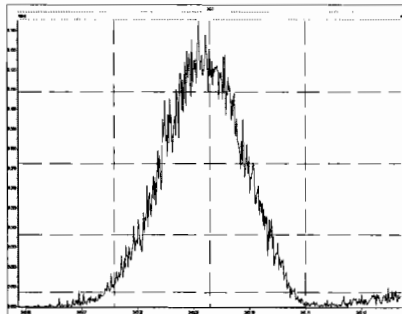


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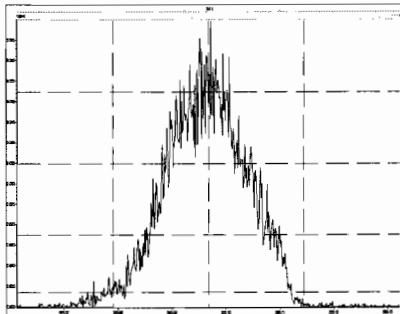
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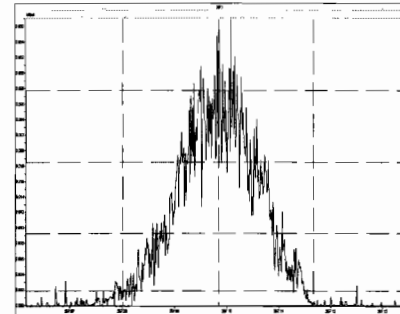
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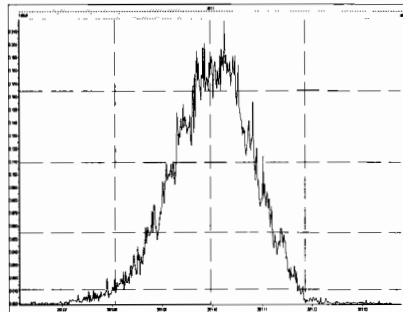
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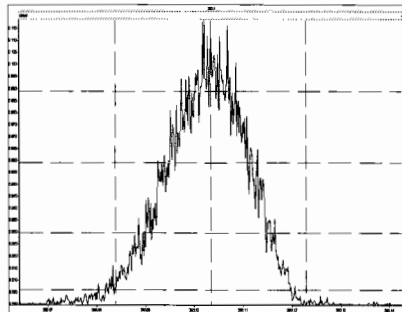
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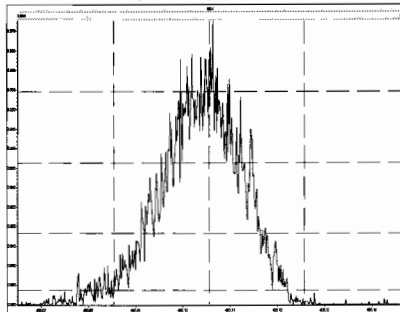
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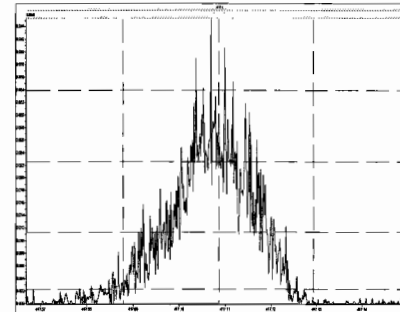
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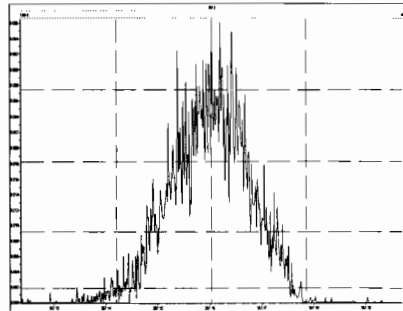
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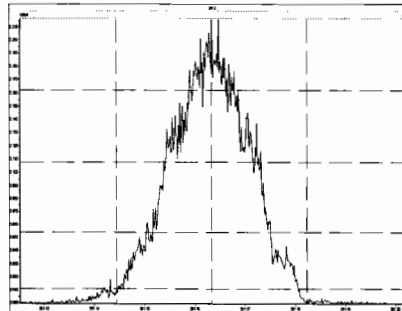
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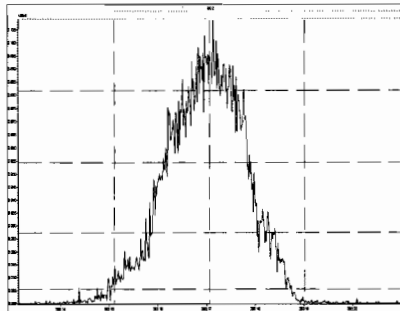
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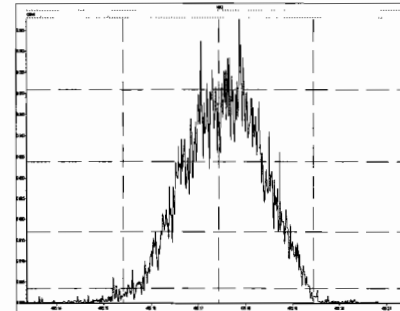
M 380.9760 R 10638



M 392.9760 R 10827

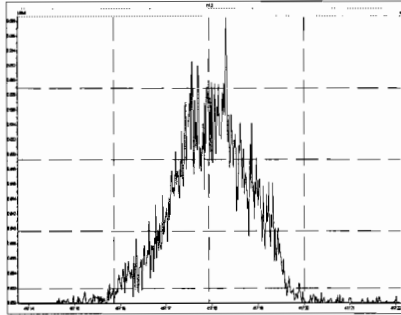


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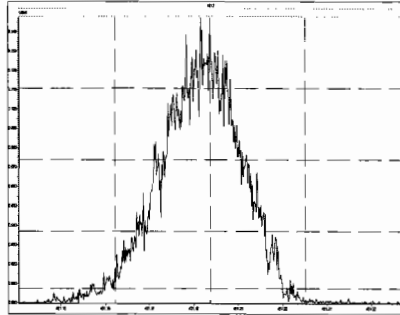


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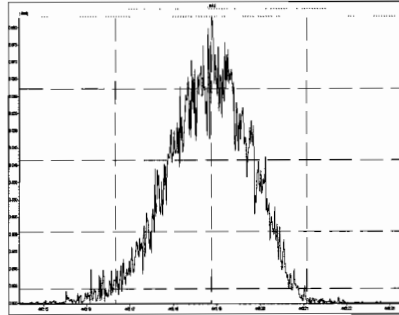
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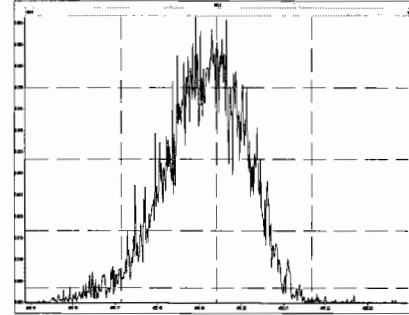
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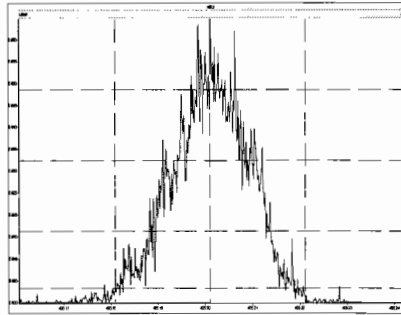
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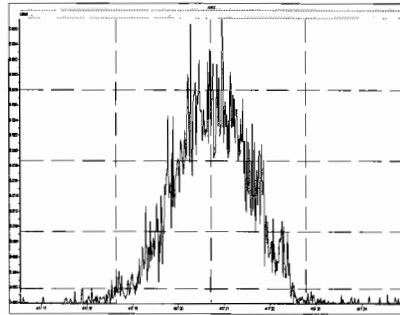
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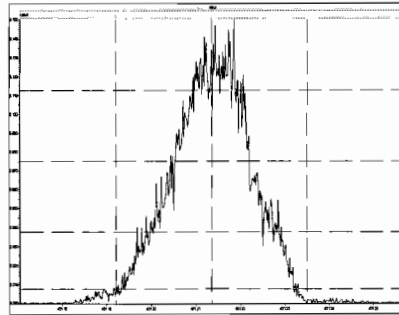
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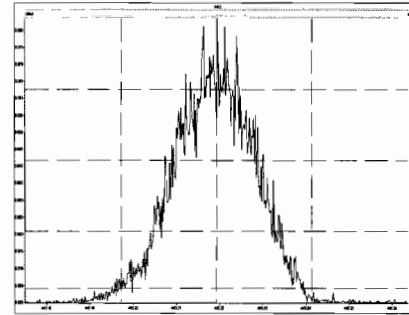
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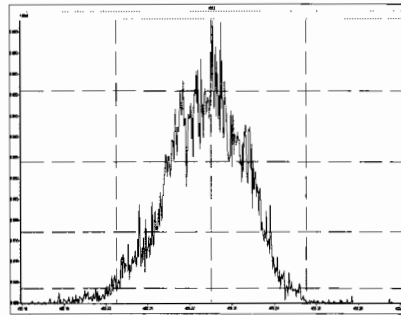
M 430.9728 R 10965



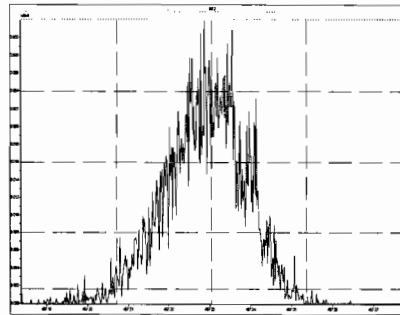
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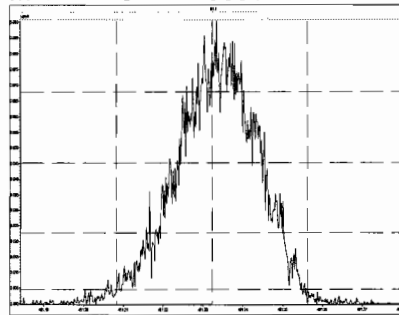
M 454.9728 R 11037



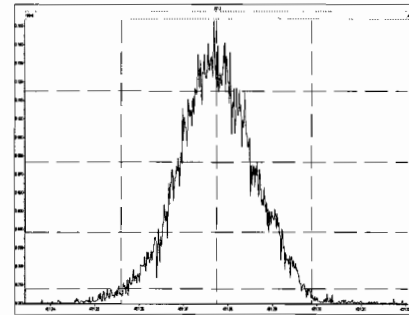
M 466.9728 R 12186



M 480.9696 R 10695

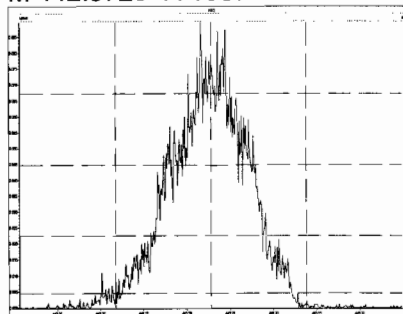


M 430.9728 R 10552

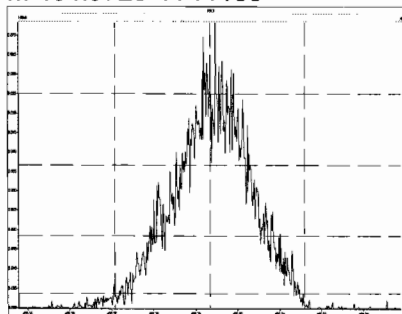


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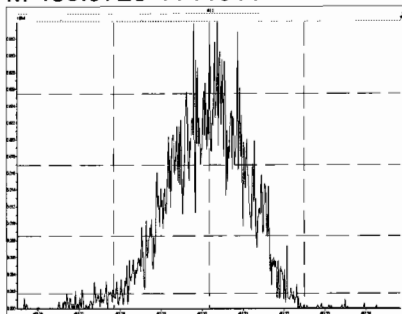
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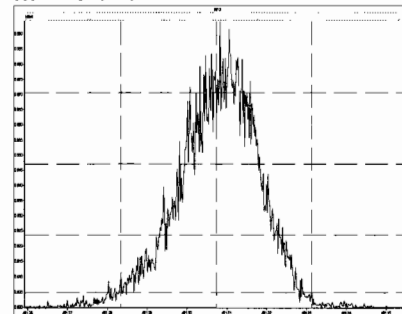
M 454.9728 R 11188



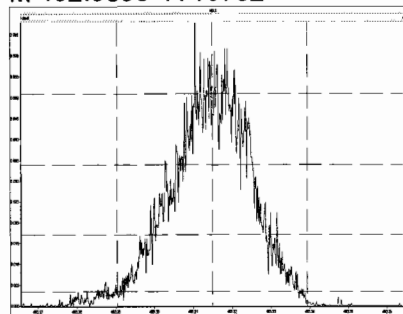
M 466.9728 R 11911



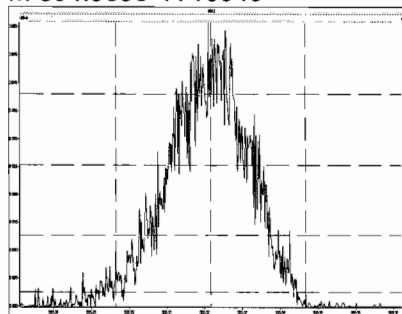
M 480.9696 R 10886



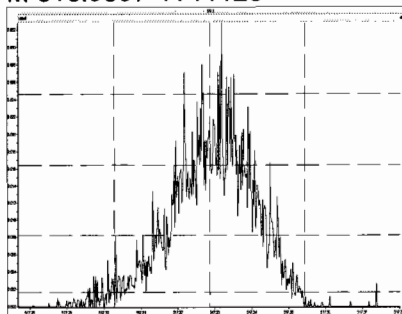
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M 504.9696 R 10949



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*hz 5.8.19 DB 5/20/19*

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 Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

Name: 190507K1\_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1\_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	7.60e4	0.76	NO	0.925	1.000	26.372	26.36	1.001	1.001	9.9167	99.2	0.0527	9.92
2	1,2,3,7,8-PeCDD	2.83e5	0.63	NO	0.905	1.000	31.141	31.14	1.001	1.001	52.411	105	0.0779	52.4
3	1,2,3,4,7,8-HxCDD	2.56e5	1.24	NO	1.07	1.000	34.422	34.42	1.000	1.000	51.689	103	0.157	51.7
4	1,2,3,6,7,8-HxCDD	2.85e5	1.28	NO	0.967	1.000	34.511	34.53	1.000	1.001	54.377	109	0.161	54.4
5	1,2,3,7,8,9-HxCDD	2.46e5	1.25	NO	0.978	1.000	34.831	34.81	1.001	1.000	50.269	101	0.173	50.3
6	1,2,3,4,6,7,8-HpCDD	1.96e5	1.05	NO	1.04	1.000	38.308	38.32	1.000	1.001	47.654	95.3	0.186	47.7
7	OCDD	3.61e5	0.90	NO	0.972	1.000	41.457	41.47	1.000	1.000	105.18	105	0.228	105
8	2,3,7,8-TCDF	1.06e5	0.77	NO	0.938	1.000	25.510	25.51	1.001	1.001	10.161	102	0.0528	10.2
9	1,2,3,7,8-PeCDF	4.45e5	1.56	NO	0.976	1.000	29.913	29.91	1.001	1.001	51.910	104	0.0756	51.9
10	2,3,4,7,8-PeCDF	4.90e5	1.55	NO	1.00	1.000	30.869	30.86	1.001	1.001	56.296	113	0.0742	56.3
11	1,2,3,4,7,8-HxCDF	3.98e5	1.24	NO	1.24	1.000	33.534	33.56	1.000	1.001	53.288	107	0.159	53.3
12	1,2,3,6,7,8-HxCDF	4.37e5	1.15	NO	1.10	1.000	33.665	33.68	1.000	1.001	54.868	110	0.164	54.9
13	2,3,4,6,7,8-HxCDF	3.80e5	1.25	NO	1.18	1.000	34.282	34.27	1.001	1.001	51.927	104	0.183	51.9
14	1,2,3,7,8,9-HxCDF	3.02e5	1.22	NO	1.07	1.000	35.169	35.19	1.000	1.001	53.429	107	0.261	53.4
15	1,2,3,4,6,7,8-HpCDF	3.31e5	1.04	NO	1.13	1.000	36.951	36.92	1.001	1.000	56.517	113	0.264	56.5
16	1,2,3,4,7,8,9-HpCDF	2.56e5	0.99	NO	1.26	1.000	38.856	38.87	1.000	1.000	53.867	108	0.275	53.9
17	OCDF	4.34e5	0.87	NO	1.10	1.000	41.687	41.70	1.000	1.000	93.430	93.4	0.200	93.4
18	13C-2,3,7,8-TCDD	8.29e5	0.78	NO	1.05	1.000	26.343	26.34	1.026	1.026	102.10	102	0.130	
19	13C-1,2,3,7,8-PeCDD	5.96e5	0.63	NO	0.743	1.000	31.123	31.12	1.212	1.212	103.75	104	0.218	
20	13C-1,2,3,4,7,8-HxCDD	4.63e5	1.29	NO	0.646	1.000	34.402	34.41	1.014	1.014	102.33	102	0.354	
21	13C-1,2,3,6,7,8-HxCDD	5.41e5	1.25	NO	0.777	1.000	34.510	34.51	1.017	1.017	99.464	99.5	0.295	
22	13C-1,2,3,7,8,9-HxCDD	5.00e5	1.25	NO	0.659	1.000	34.799	34.80	1.025	1.025	108.25	108	0.347	
23	13C-1,2,3,4,6,7,8-HpCDD	3.97e5	1.11	NO	0.534	1.000	38.301	38.30	1.128	1.128	106.06	106	0.355	
24	13C-OCDD	7.05e5	0.93	NO	0.470	1.000	41.461	41.46	1.222	1.222	214.10	107	0.519	
25	13C-2,3,7,8-TCDF	1.11e6	0.77	NO	0.977	1.000	25.483	25.48	0.992	0.992	101.03	101	0.194	
26	13C-1,2,3,7,8-PeCDF	8.78e5	1.59	NO	0.778	1.000	29.892	29.89	1.164	1.164	100.03	100	0.293	
27	13C-2,3,4,7,8-PeCDF	8.67e5	1.59	NO	0.750	1.000	30.843	30.84	1.201	1.201	102.41	102	0.304	
28	13C-1,2,3,4,7,8-HxCDF	6.01e5	0.51	NO	0.845	1.000	33.529	33.53	0.988	0.988	101.56	102	0.419	
29	13C-1,2,3,6,7,8-HxCDF	7.27e5	0.52	NO	1.03	1.000	33.652	33.65	0.992	0.992	101.03	101	0.345	
30	13C-2,3,4,6,7,8-HxCDF	6.20e5	0.53	NO	0.893	1.000	34.249	34.25	1.009	1.009	99.164	99.2	0.397	
31	13C-1,2,3,7,8,9-HxCDF	5.26e5	0.53	NO	0.734	1.000	35.169	35.17	1.036	1.036	102.34	102	0.483	

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Last Altered: Wednesday, May 08, 2019 8:00:45 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 8:07:46 AM Pacific Daylight Time

Name: 190507K1\_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1\_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	5.19e5	0.45	NO	0.754	1.000	36.900	36.91	1.087	1.088	98.155	98.2	0.323	
33	13C-1,2,3,4,7,8,9-HpCDF	3.76e5	0.44	NO	0.539	1.000	38.851	38.86	1.145	1.145	99.700	99.7	0.452	
34	13C-OCDF	8.43e5	0.90	NO	0.593	1.000	41.689	41.69	1.228	1.228	202.98	101	0.322	
35	37Cl-2,3,7,8-TCDD	8.22e4			1.07	1.000	26.343	26.36	1.026	1.026	9.9341	99.3	0.0341	
36	13C-1,2,3,4-TCDD	7.74e5	0.80	NO	1.00	1.000	25.680	25.68	1.000	1.000	100.00	100	0.137	
37	13C-1,2,3,4-TCDF	1.13e6	0.79	NO	1.00	1.000	24.050	24.05	1.000	1.000	100.00	100	0.190	
38	13C-1,2,3,4,6,9-HxCDF	7.01e5	0.53	NO	1.00	1.000	33.940	33.94	1.000	1.000	100.00	100	0.354	

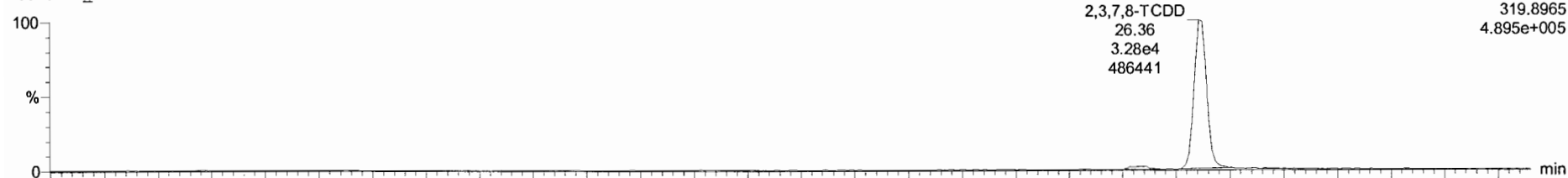
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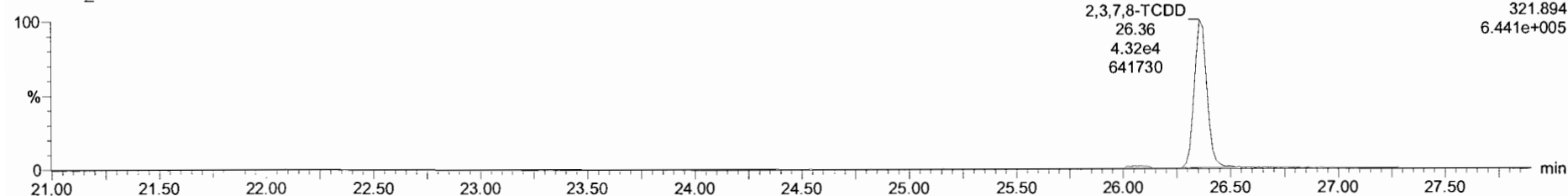
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**2,3,7,8-TCDD**

190507K1\_8



190507K1\_8

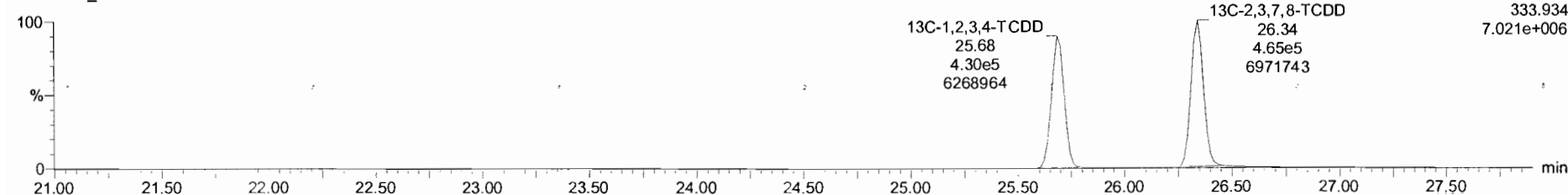


**13C-2,3,7,8-TCDD**

190507K1\_8



190507K1\_8



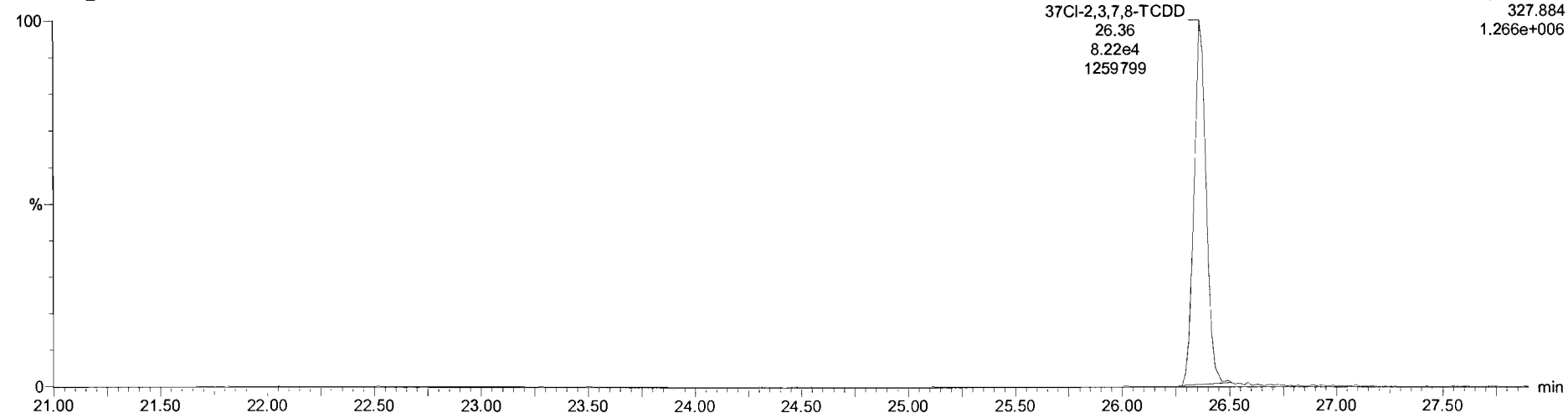
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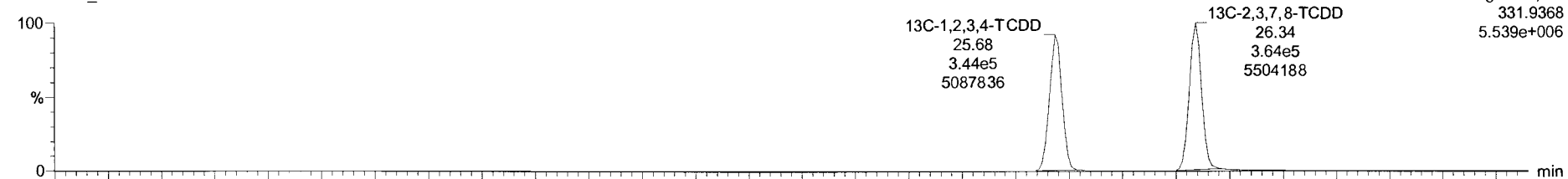
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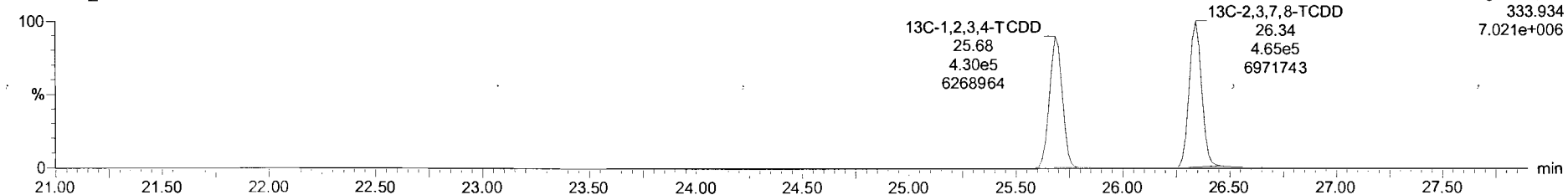


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190507K1\_8



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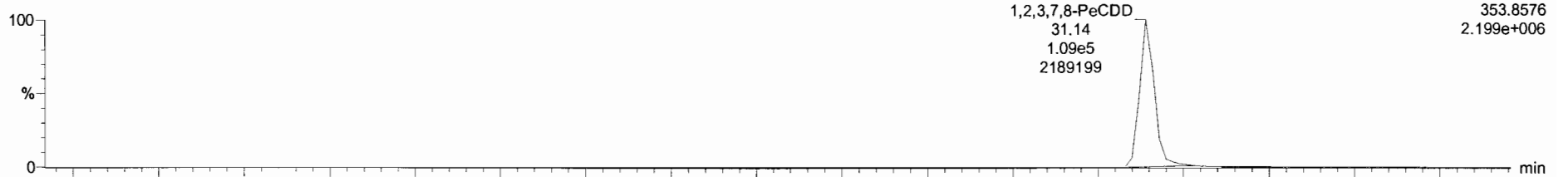
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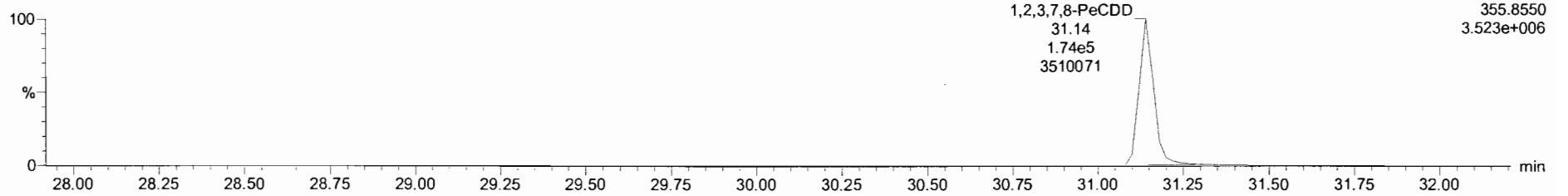
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**1,2,3,7,8-PeCDD**

190507K1\_8

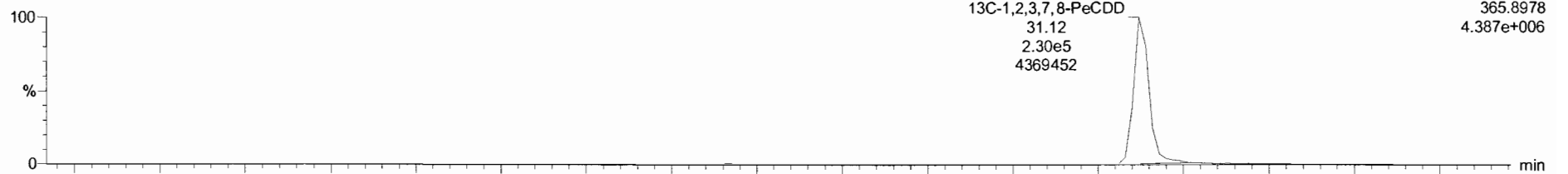


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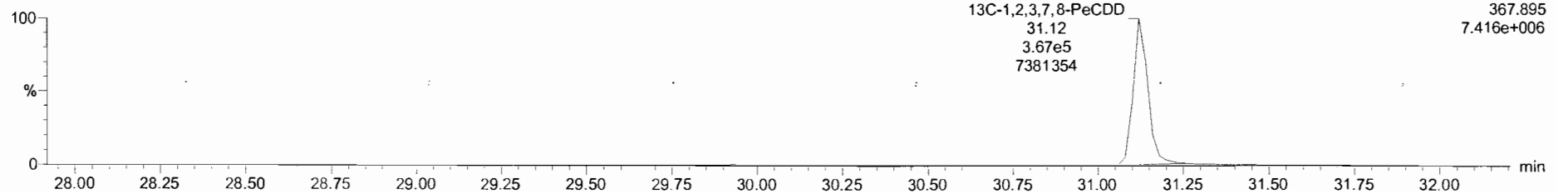


**13C-1,2,3,7,8-PeCDD**

190507K1\_8



190507K1\_8



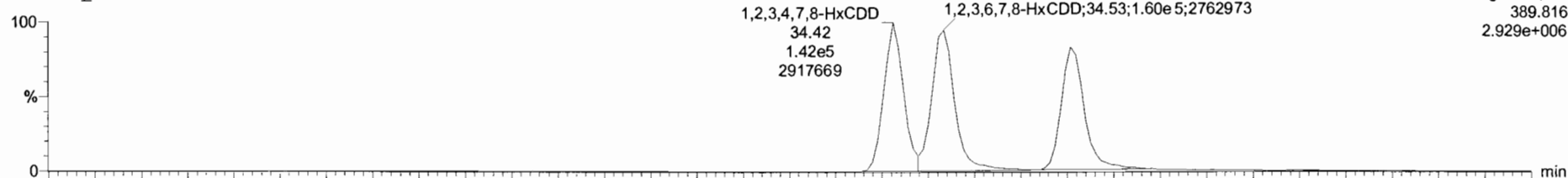
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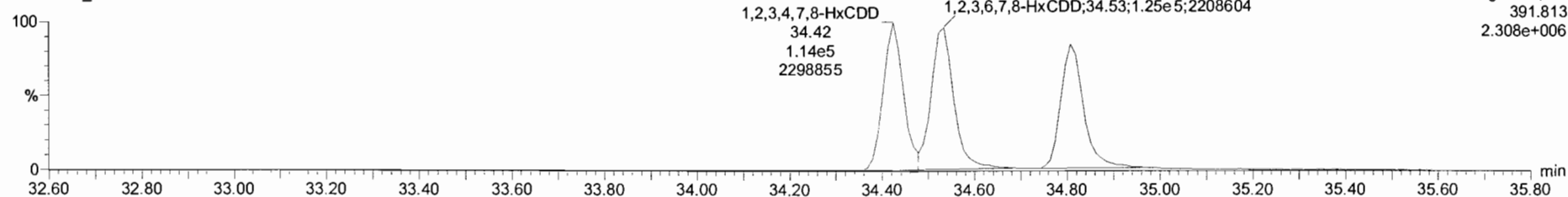
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**1,2,3,4,7,8-HxCDD**

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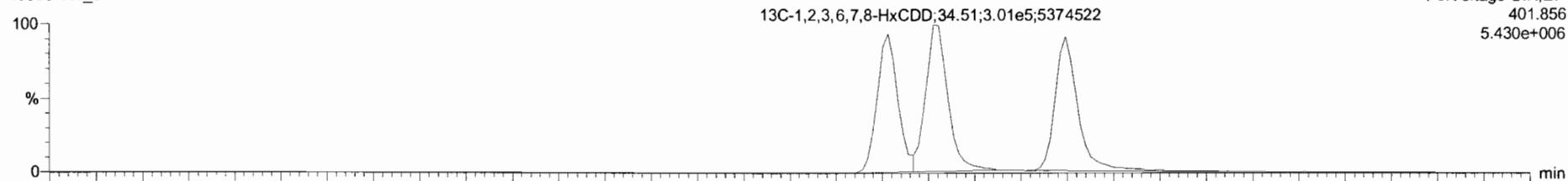


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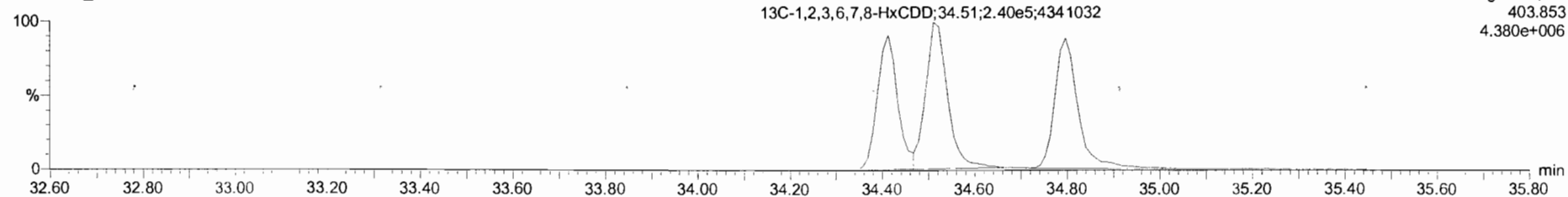


**13C-1,2,3,4,7,8-HxCDD**

190507K1\_8



190507K1\_8



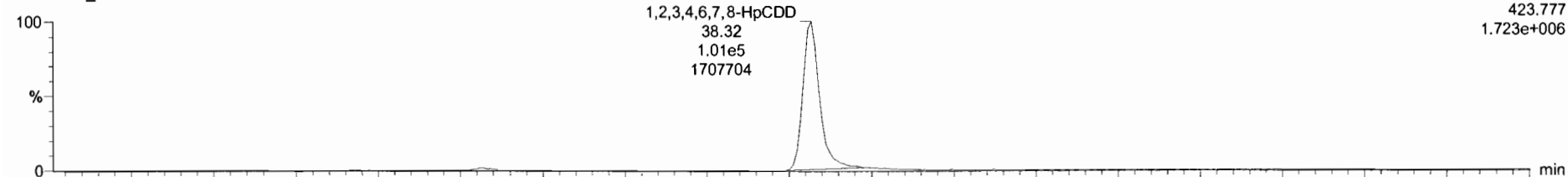
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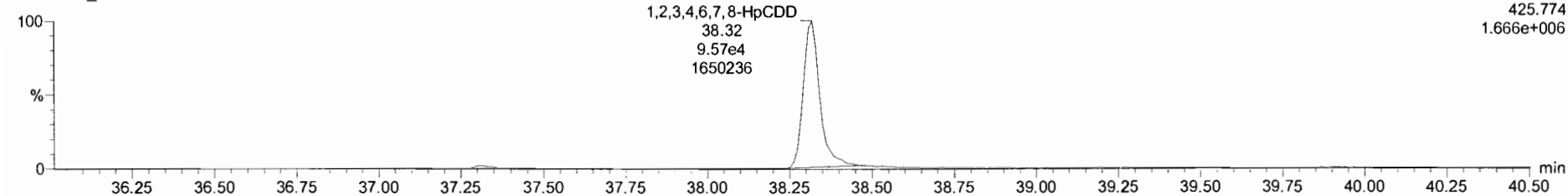
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**1,2,3,4,6,7,8-HpCDD**

190507K1\_8

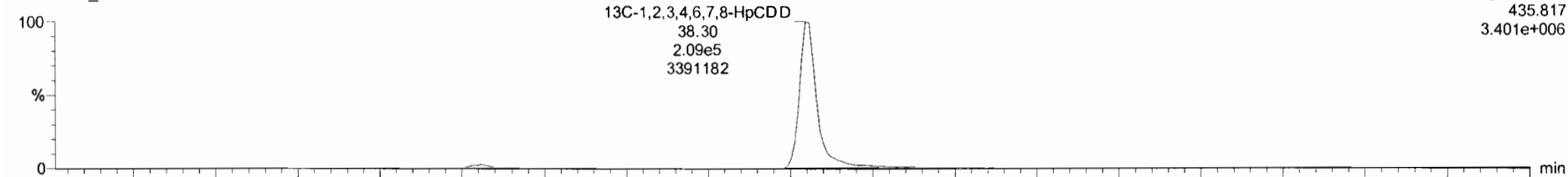


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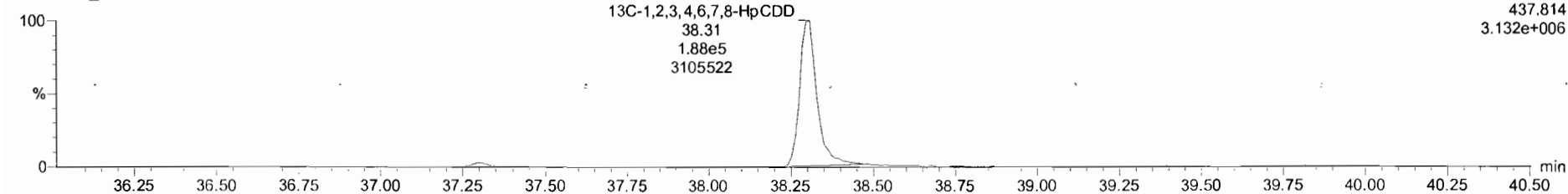


**13C-1,2,3,4,6,7,8-HpCDD**

190507K1\_8



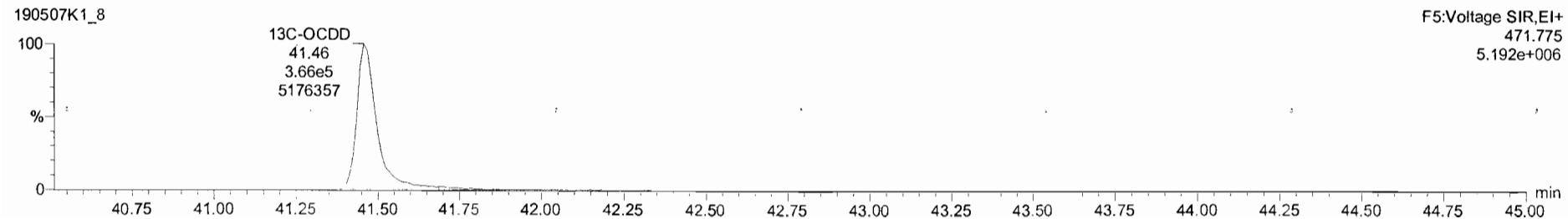
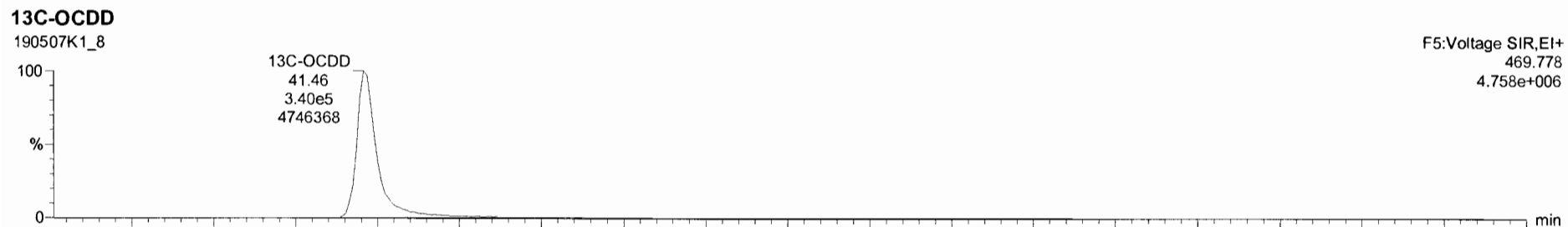
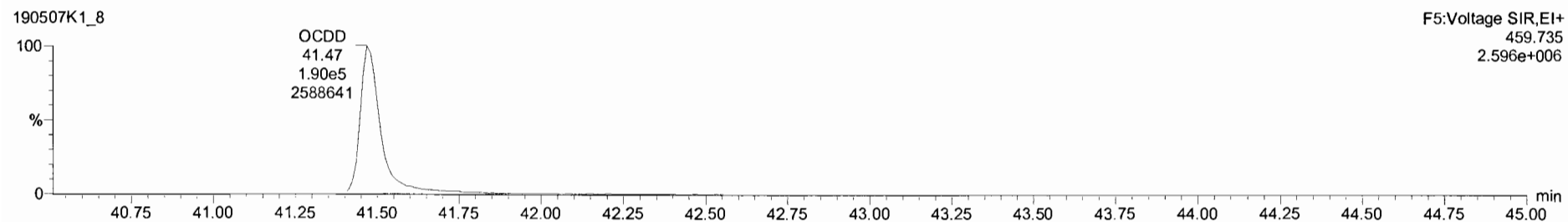
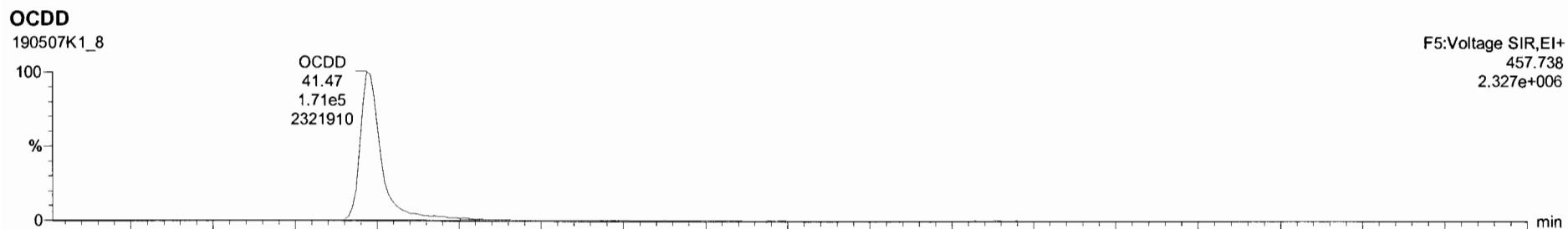
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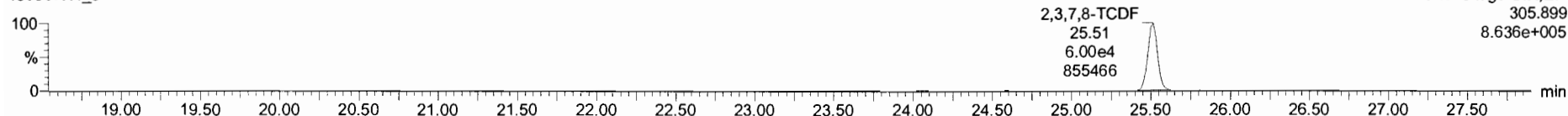
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**2,3,7,8-TCDF**

190507K1\_8

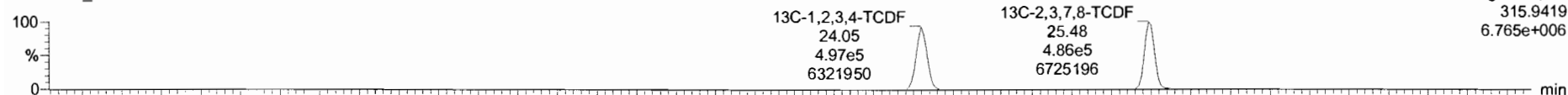


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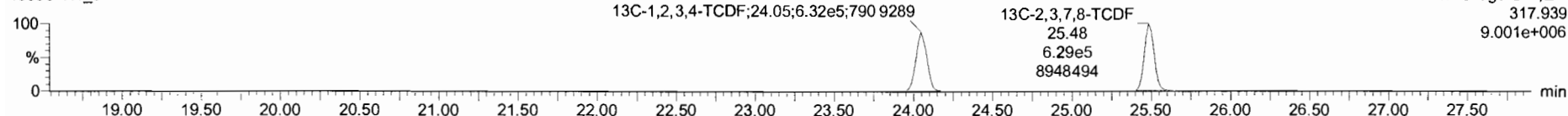


**13C-2,3,7,8-TCDF**

190507K1\_8

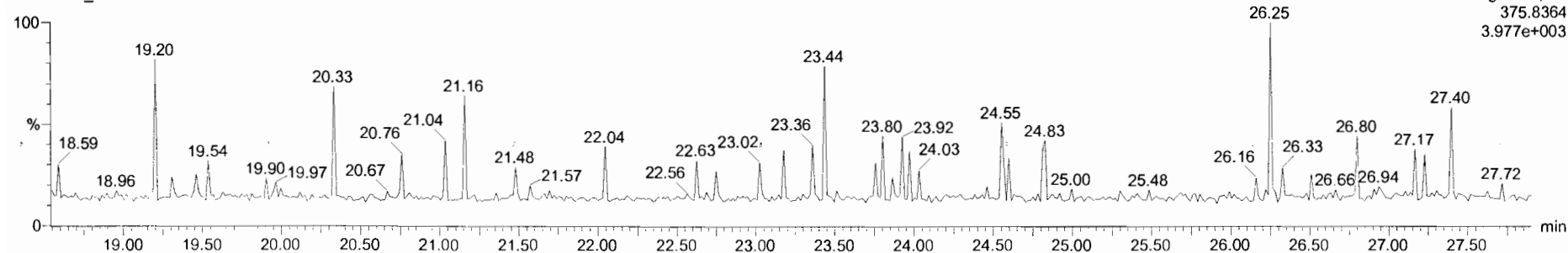


190507K1\_8



**DPE1**

190507K1\_8

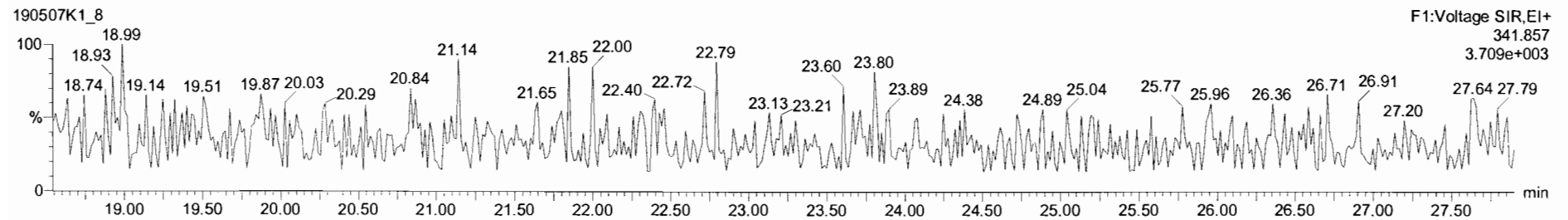
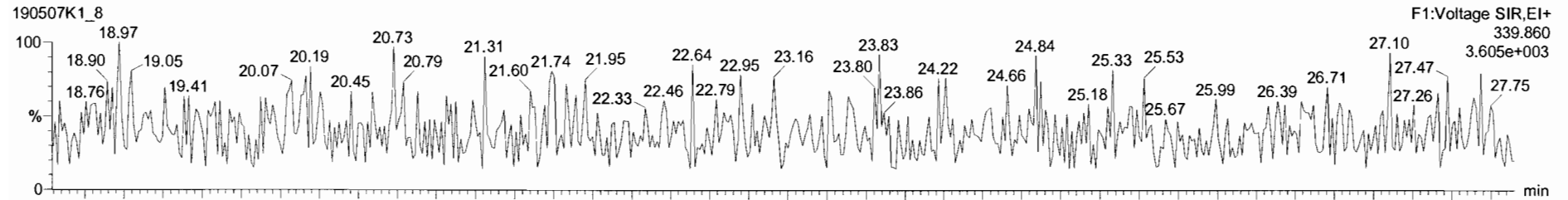


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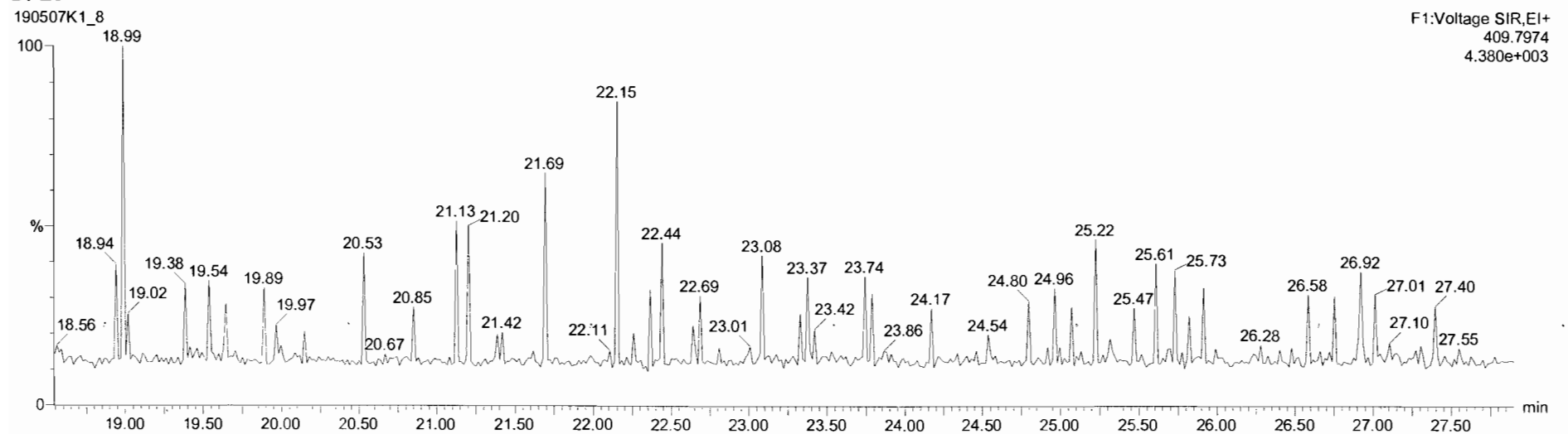
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Name: 190507K1\_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1\_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

1st Func. Penta-Furans



DPE6



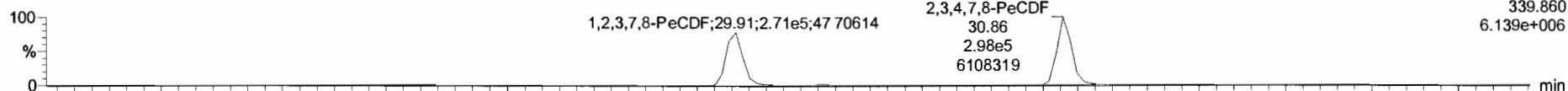
Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1\_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

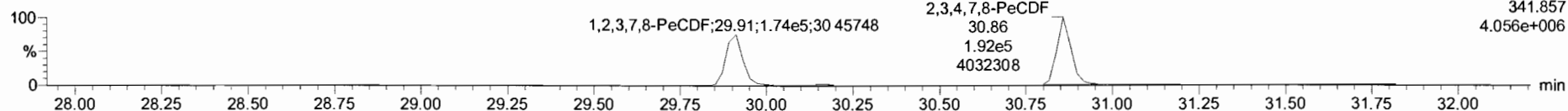
**1,2,3,7,8-PeCDF**

190507K1\_8



F2:Voltage SIR,EI+  
339.860  
6.139e+006

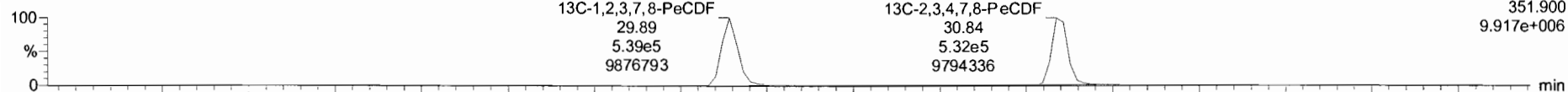
190507K1\_8



F2:Voltage SIR,EI+  
341.857  
4.056e+006

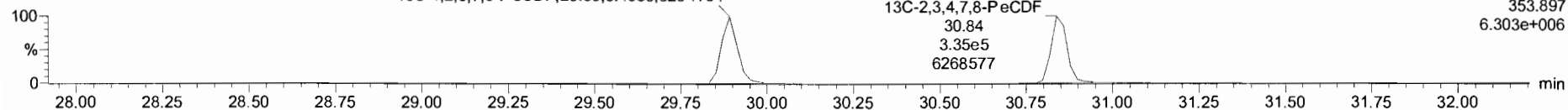
**13C-1,2,3,7,8-PeCDF**

190507K1\_8



F2:Voltage SIR,EI+  
351.900  
9.917e+006

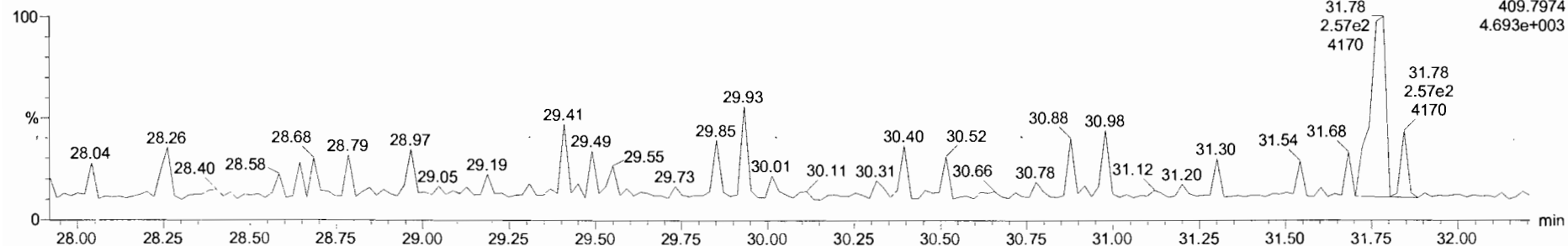
190507K1\_8



F2:Voltage SIR,EI+  
353.897  
6.303e+006

**DPE2**

190507K1\_8



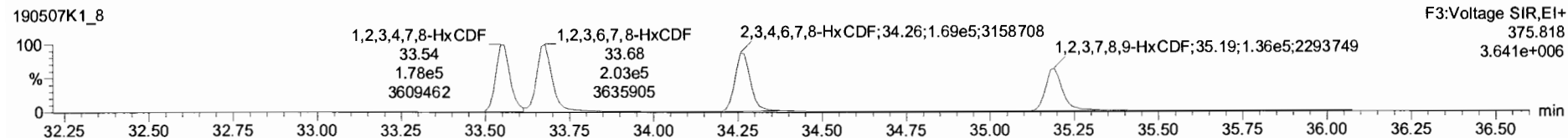
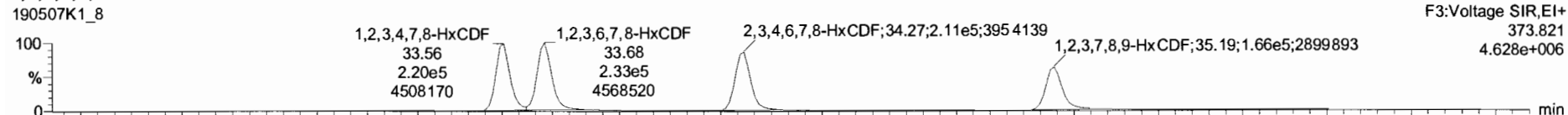
F2:Voltage SIR,EI+  
409.7974  
4.693e+003

Dataset: Untitled

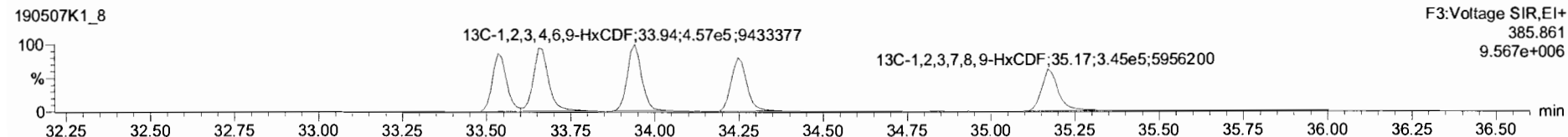
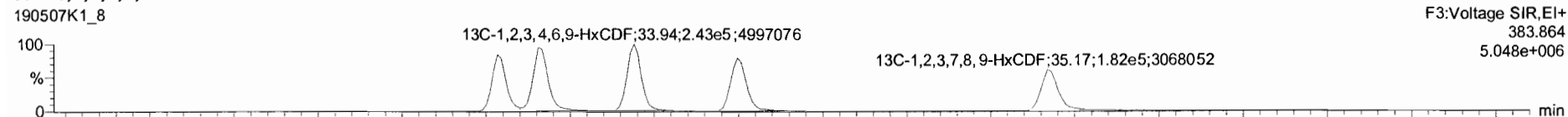
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1\_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

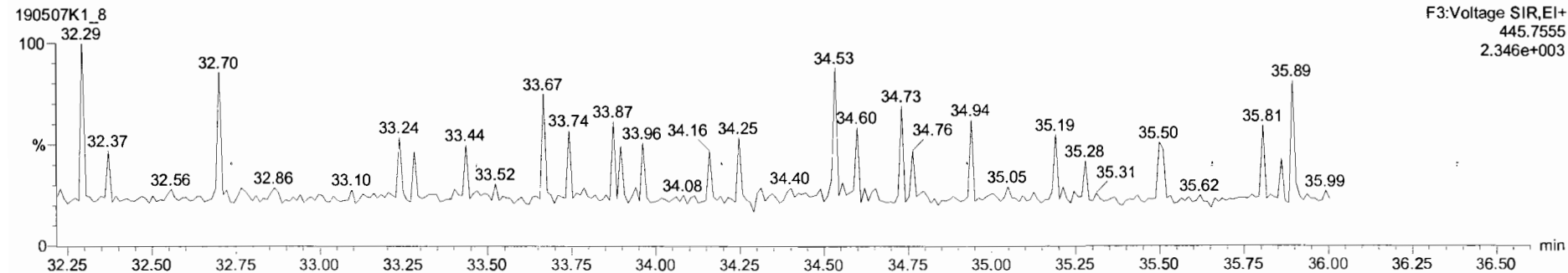
**1,2,3,4,7,8-HxCDF**



**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



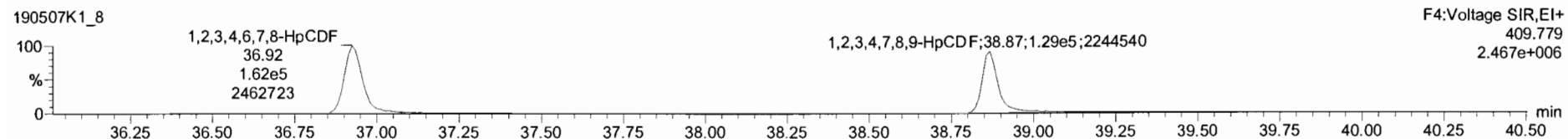
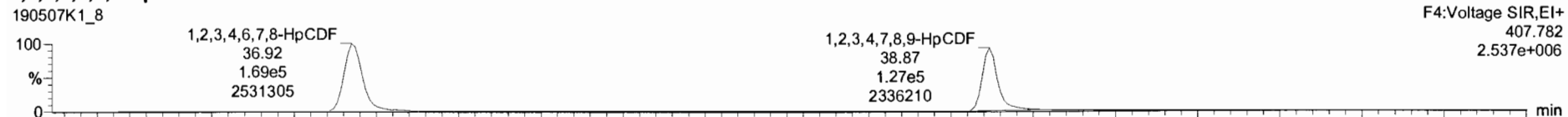


Dataset: Untitled

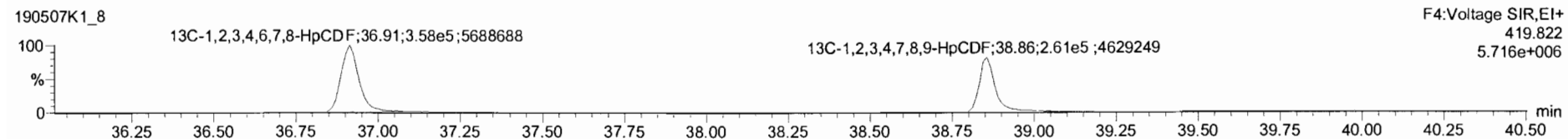
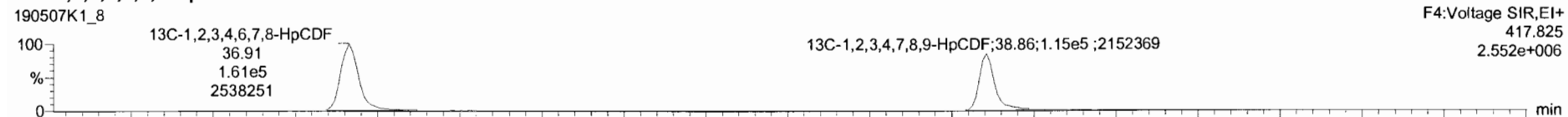
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1\_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

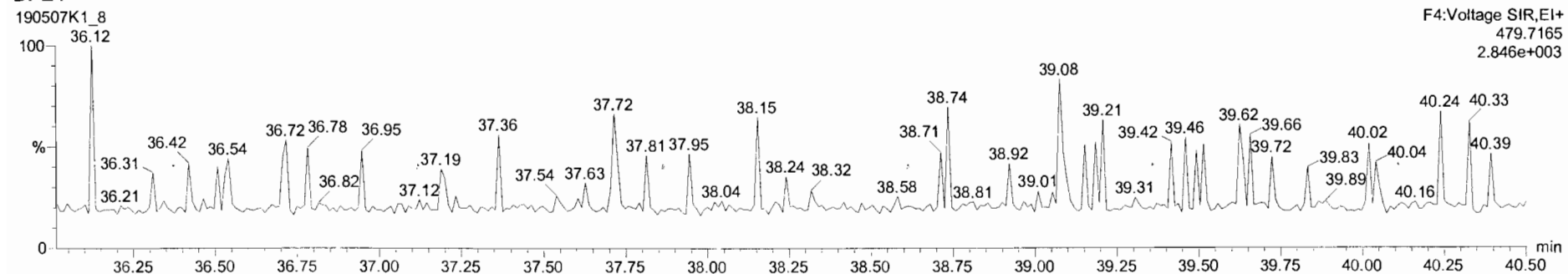
### 1,2,3,4,6,7,8-HpCDF



### 13C-1,2,3,4,6,7,8-HpCDF



### DPE4

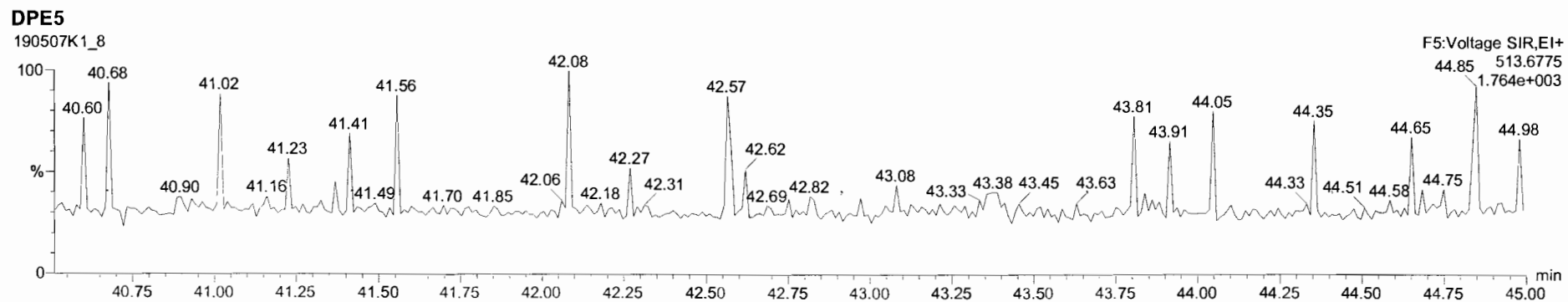
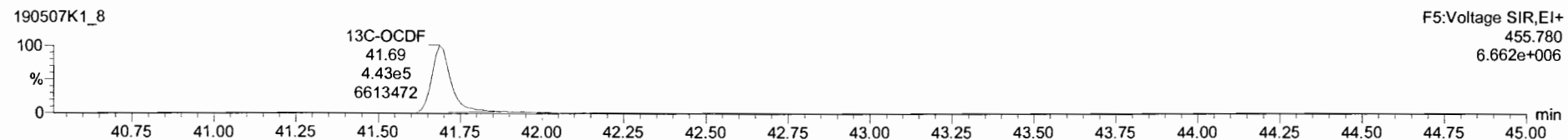
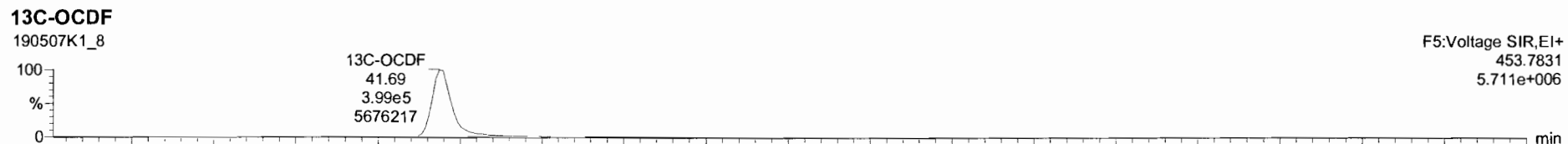
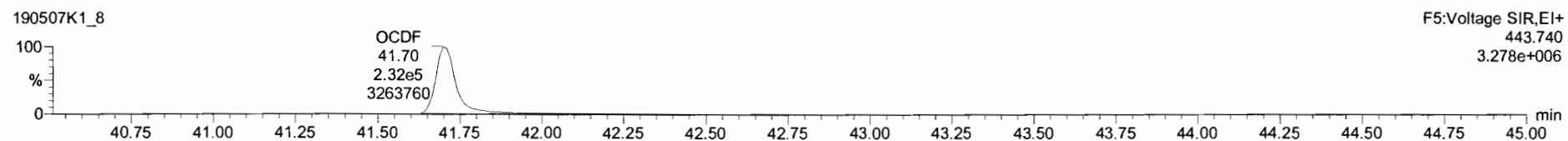
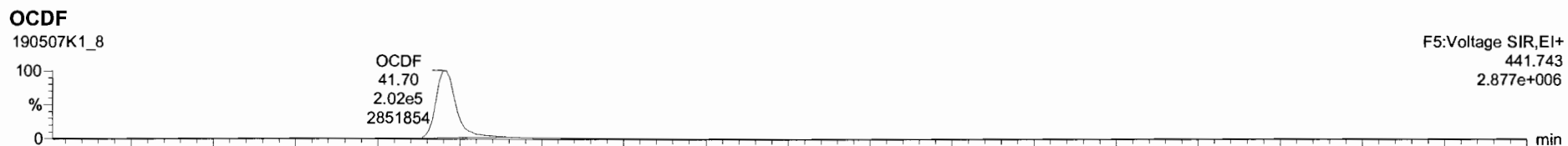


Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1\_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207



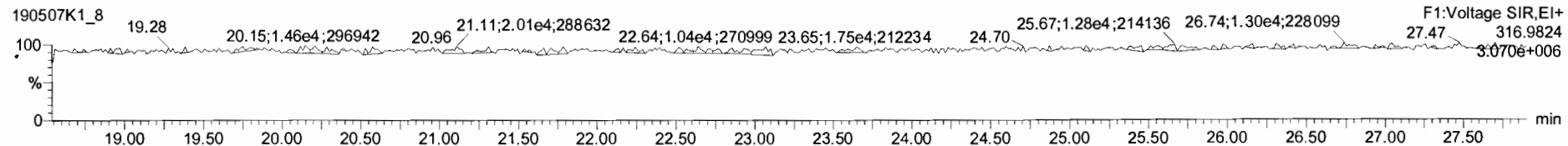
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

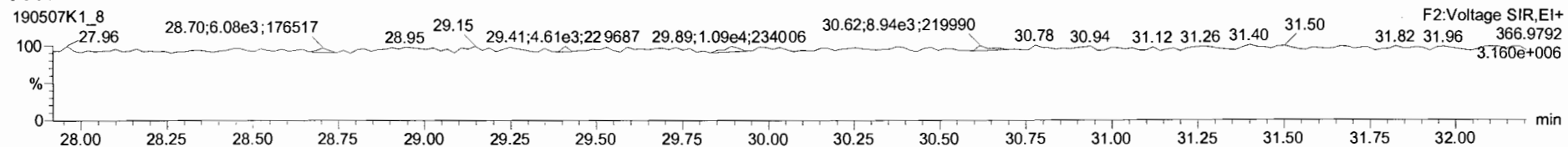
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1\_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

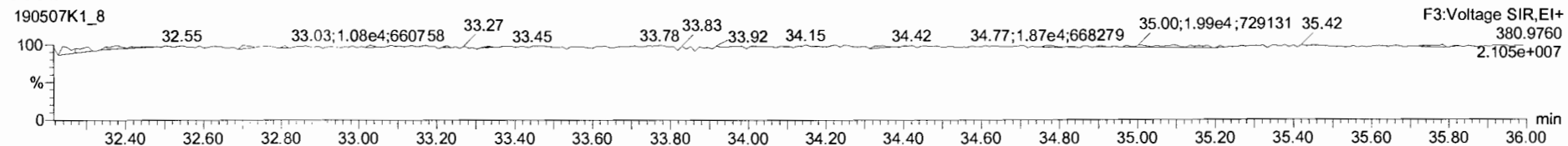
**PFK1**



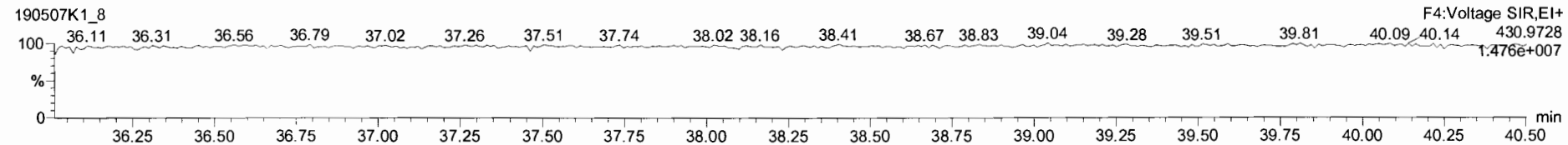
**PFK2**



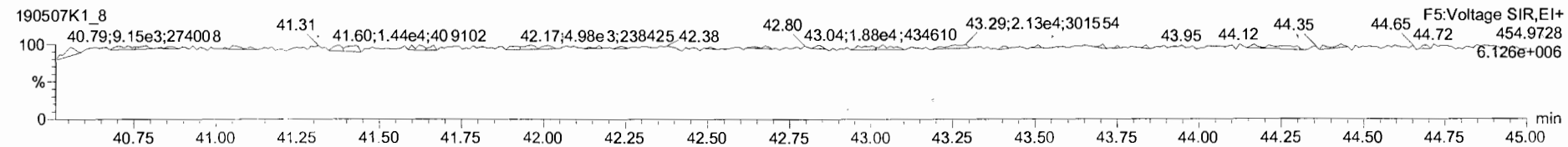
**PFK3**



**PFK4**



**PFK5**



Dataset: U:\VG11.PRO\Results\190507K1\190507K2-1.qld

Last Altered: Wednesday, May 08, 2019 8:10:45 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 8:11:52 AM Pacific Daylight Time

*Hc 5-8-19*

*DB 5/20/19*

Method: U:\VG11.PRO\MethDB\1613\_rrt-5-7-19.mdb 07 May 2019 12:51:47  
Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

Name: 190507K2\_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2\_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	4.96e4	0.78	NO	0.925	1.000	26.372	26.36	1.001	1.001	9.7504	97.5	0.0601	9.75
2	2 1,2,3,7,8-PeCDD	1.92e5	0.60	NO	0.905	1.000	31.141	31.14	1.001	1.001	52.019	104	0.135	52.0
3	3 1,2,3,4,7,8-HxCDD	1.65e5	1.26	NO	1.07	1.000	34.422	34.42	1.000	1.000	40.468	80.9	0.208	40.5
4	4 1,2,3,6,7,8-HxCDD	1.70e5	1.27	NO	0.967	1.000	34.522	34.53	1.000	1.000	52.044	104	0.299	52.0
5	5 1,2,3,7,8,9-HxCDD	1.57e5	1.21	NO	0.978	1.000	34.831	34.81	1.001	1.000	49.488	99.0	0.295	49.5
6	6 1,2,3,4,6,7,8-HpCDD	1.25e5	1.09	NO	1.04	1.000	38.308	38.32	1.000	1.001	46.558	93.1	0.278	46.6
7	7 OCDD	2.20e5	0.89	NO	0.972	1.000	41.468	41.48	1.000	1.000	116.21	116	0.310	116
8	8 2,3,7,8-TCDF	6.88e4	0.78	NO	0.938	1.000	25.510	25.51	1.001	1.001	9.8653	98.7	0.0599	9.87
9	9 1,2,3,7,8-PeCDF	2.98e5	1.59	NO	0.976	1.000	29.913	29.91	1.001	1.001	48.808	97.6	0.107	48.8
10	10 2,3,4,7,8-PeCDF	3.02e5	1.60	NO	1.00	1.000	30.869	30.86	1.001	1.001	50.503	101	0.112	50.5
11	11 1,2,3,4,7,8-HxCDF	2.51e5	1.28	NO	1.24	1.000	33.534	33.56	1.000	1.001	42.310	84.6	0.183	42.3
12	12 1,2,3,6,7,8-HxCDF	2.65e5	1.25	NO	1.10	1.000	33.676	33.68	1.000	1.000	49.107	98.2	0.216	49.1
13	13 2,3,4,6,7,8-HxCDF	2.52e5	1.24	NO	1.18	1.000	34.282	34.27	1.001	1.001	47.589	95.2	0.219	47.6
14	14 1,2,3,7,8,9-HxCDF	1.94e5	1.26	NO	1.07	1.000	35.169	35.19	1.000	1.001	48.711	97.4	0.322	48.7
15	15 1,2,3,4,6,7,8-HpCDF	1.91e5	1.04	NO	1.13	1.000	36.951	36.92	1.001	1.000	50.687	101	0.231	50.7
16	16 1,2,3,4,7,8,9-HpCDF	1.57e5	0.99	NO	1.26	1.000	38.856	38.87	1.000	1.000	51.308	103	0.248	51.3
17	17 OCDF	2.63e5	0.85	NO	1.10	1.000	41.687	41.70	1.000	1.000	92.671	92.7	0.237	92.7
18	18 13C-2,3,7,8-TCDD	5.49e5	0.79	NO	1.05	1.000	26.343	26.34	1.026	1.026	101.33	101	0.176	
19	19 13C-1,2,3,7,8-PeCDD	4.08e5	0.63	NO	0.743	1.000	31.123	31.12	1.212	1.212	106.23	106	0.222	
20	20 13C-1,2,3,4,7,8-HxCDD	3.81e5	1.26	NO	0.646	1.000	34.402	34.41	1.014	1.014	127.08	127	0.322	
21	21 13C-1,2,3,6,7,8-HxCDD	3.37e5	1.28	NO	0.777	1.000	34.510	34.52	1.017	1.017	93.509	93.5	0.268	
22	22 13C-1,2,3,7,8,9-HxCDD	3.24e5	1.27	NO	0.659	1.000	34.799	34.80	1.025	1.025	105.79	106	0.315	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.59e5	1.05	NO	0.534	1.000	38.301	38.30	1.128	1.128	104.55	105	0.389	
24	24 13C-OCDD	3.90e5	0.88	NO	0.470	1.000	41.461	41.47	1.222	1.222	178.53	89.3	0.468	
25	25 13C-2,3,7,8-TCDF	7.44e5	0.79	NO	0.977	1.000	25.483	25.48	0.992	0.992	101.65	102	0.294	
26	26 13C-1,2,3,7,8-PeCDF	6.25e5	1.56	NO	0.778	1.000	29.893	29.89	1.164	1.164	107.38	107	0.390	
27	27 13C-2,3,4,7,8-PeCDF	5.95e5	1.57	NO	0.750	1.000	30.843	30.84	1.201	1.201	106.00	106	0.405	
28	28 13C-1,2,3,4,7,8-HxCDF	4.78e5	0.51	NO	0.845	1.000	33.529	33.53	0.988	0.988	121.85	122	0.545	
29	29 13C-1,2,3,6,7,8-HxCDF	4.92e5	0.52	NO	1.03	1.000	33.652	33.67	0.992	0.992	103.24	103	0.448	
30	30 13C-2,3,4,6,7,8-HxCDF	4.49e5	0.52	NO	0.893	1.000	34.249	34.25	1.009	1.009	108.34	108	0.515	
31	31 13C-1,2,3,7,8,9-HxCDF	3.71e5	0.54	NO	0.734	1.000	35.169	35.17	1.036	1.036	108.96	109	0.627	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.34e5	0.43	NO	0.754	1.000	36.900	36.91	1.087	1.088	95.313	95.3	0.389	

Dataset: U:\VG11.PRO\Results\190507K1\190507K2-1.qld

Last Altered: Wednesday, May 08, 2019 8:10:45 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 8:11:52 AM Pacific Daylight Time

Name: 190507K2\_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2\_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.42e5	0.47	NO	0.539	1.000	38.851	38.86	1.145	1.145	96.836	96.8	0.545	
34	34 13C-OCDF	5.14e5	0.89	NO	0.593	1.000	41.689	41.69	1.228	1.228	186.97	93.5	0.402	
35	35 37Cl-2,3,7,8-TCDD	5.28e4			1.07	1.000	26.343	26.36	1.026	1.026	9.5583	95.6	0.0488	
36	36 13C-1,2,3,4-TCDD	5.17e5	0.77	NO	1.00	1.000	25.680	25.68	1.000	1.000	100.00	100	0.184	
37	37 13C-1,2,3,4-TCDF	7.49e5	0.80	NO	1.00	1.000	24.050	24.06	1.000	1.000	100.00	100	0.288	
38	38 13C-1,2,3,4,6,9-HxCDF	4.64e5	0.51	NO	1.00	1.000	33.940	33.94	1.000	1.000	100.00	100	0.460	

Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 8:05:38 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 8:05:41 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\CPSM-5-7-19.mdb 07 May 2019 13:29:19  
Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

Name: 190507K2\_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2\_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

#	Name	RT
1	1,3,6,8-TCDD (First)	22.41
2	1,2,8,9-TCDD (Last)	27.29
3	1,2,4,7,9-PeCDD (First)	28.99
4	1,2,3,8,9-PeCDD (Last)	31.50
5	1,2,4,6,7,9-HxCDD (First)	32.91
6	1,2,3,7,8,9-HxCDD (Last)	34.81
7	1,2,3,4,6,7,9-HpCDD (First)	37.31
8	1,2,3,4,6,7,8-HpCDD (Last)	38.32
9	1,3,6,8-TCDF (First)	20.23
10	1,2,8,9-TCDF (Last)	27.46
11	1,3,4,6,8-PeCDF (First)	27.36
12	1,2,3,8,9-PeCDF (Last)	31.76
13	1,2,3,4,6,8-HxCDF (First)	32.38
14	1,2,3,7,8,9-HxCDF (Last)	35.19
15	1,2,3,4,6,7,8-HpCDF (First)	36.92
16	1,2,3,4,7,8,9-HpCDF (Last)	38.87

Dataset: Untitled

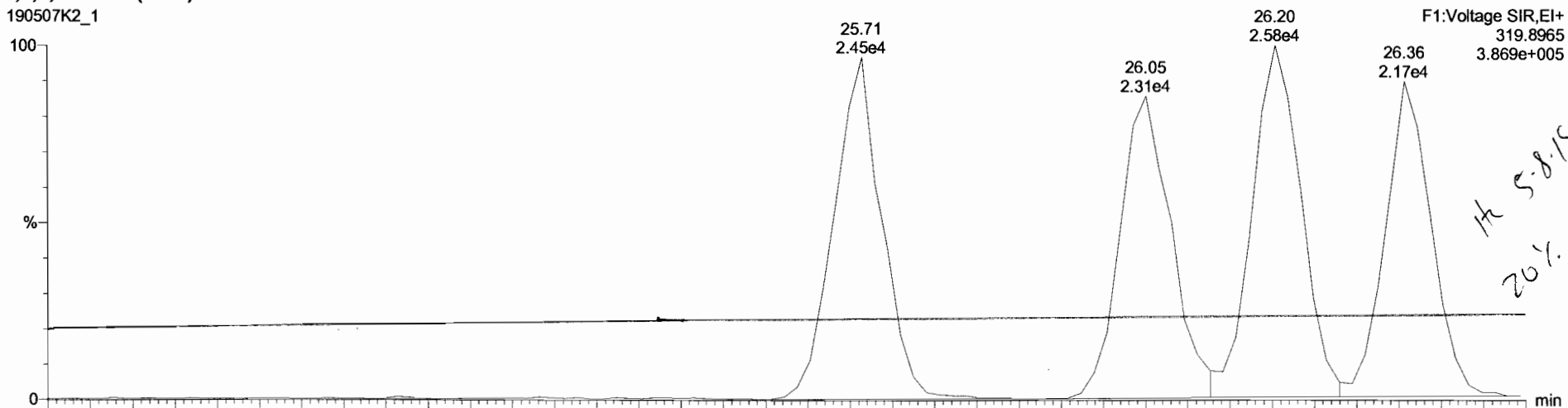
Last Altered: Wednesday, May 08, 2019 8:05:38 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 8:05:41 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\CPSM-5-7-19.mdb 07 May 2019 13:29:19  
Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

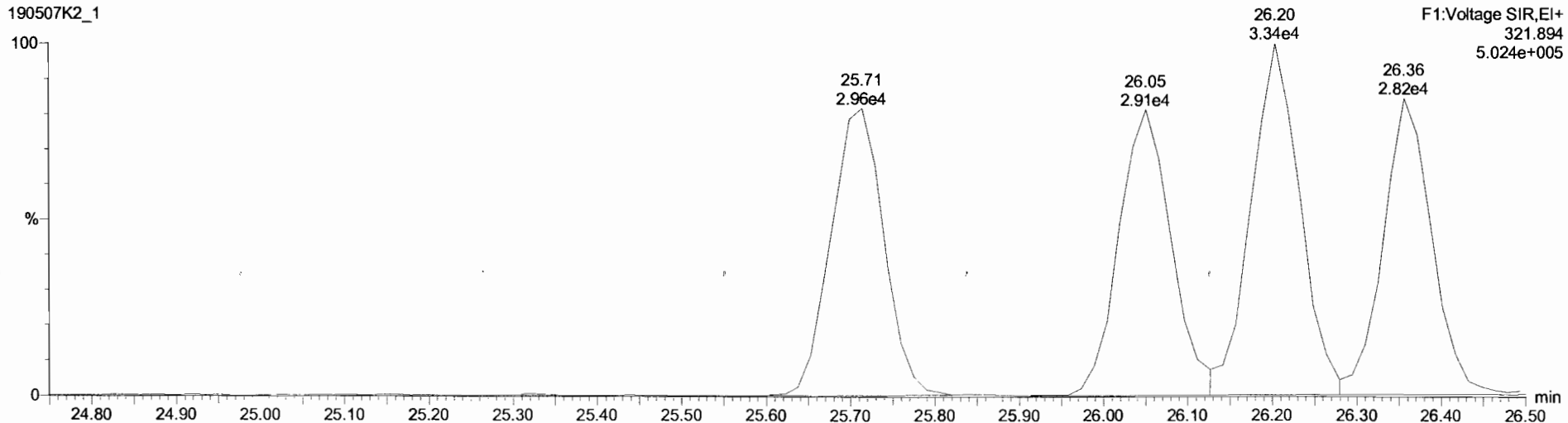
Name: 190507K2\_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2\_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

1,3,6,8-TCDD (First)

190507K2\_1



190507K2\_1



Dataset: Untitled

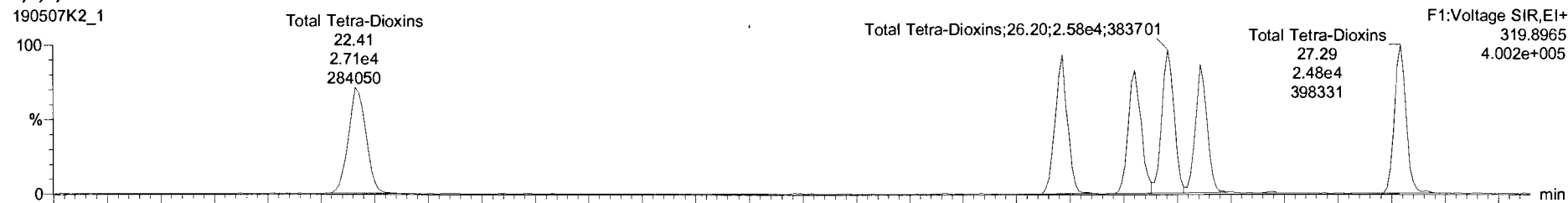
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

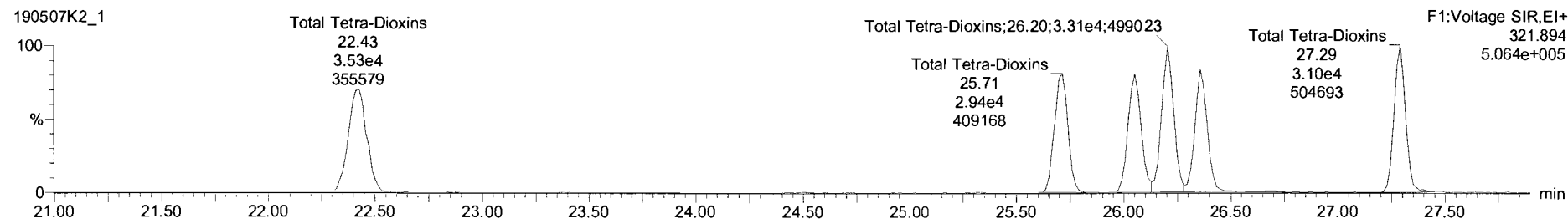
Name: 190507K2\_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2\_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

**2,3,7,8-TCDD**

190507K2\_1



190507K2\_1

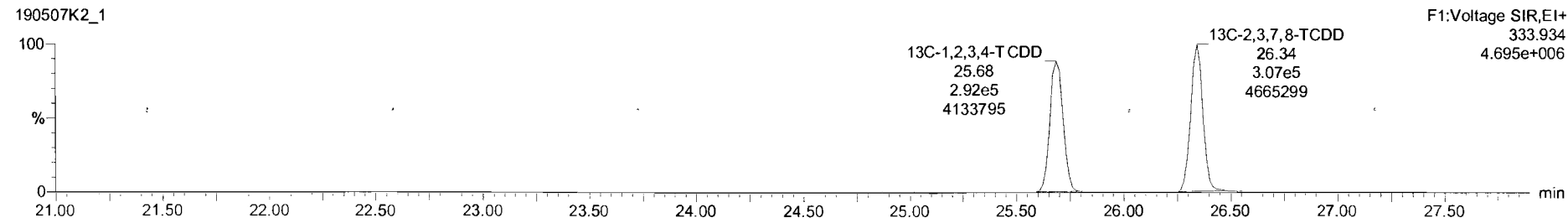


**13C-2,3,7,8-TCDD**

190507K2\_1



190507K2\_1





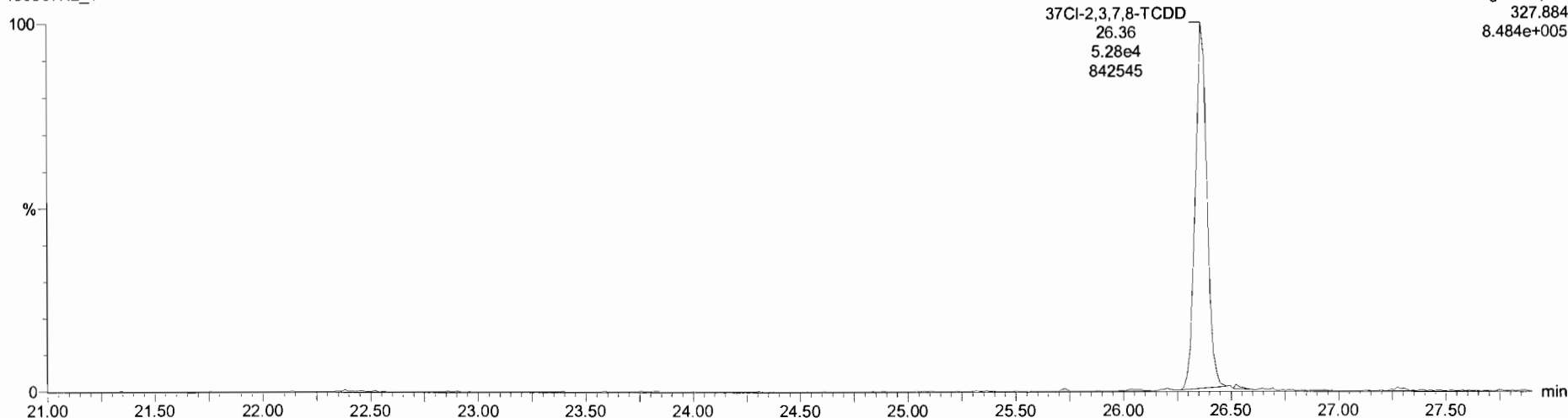
Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K2\_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2\_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

**37Cl-2,3,7,8-TCDD**

190507K2\_1

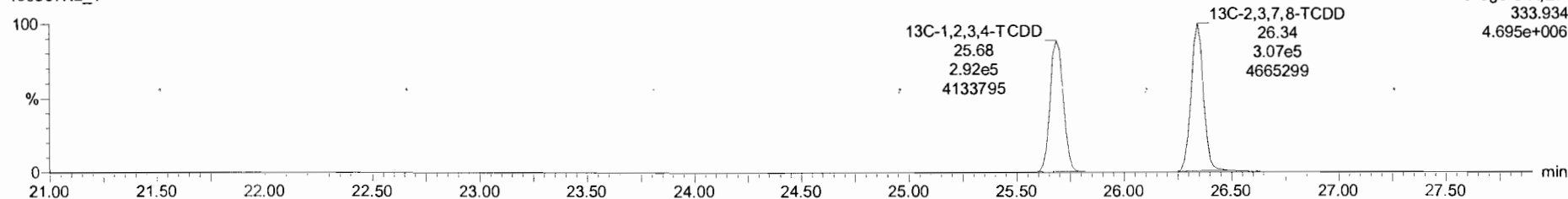


**13C-1,2,3,4-TCDD**

190507K2\_1



190507K2\_1

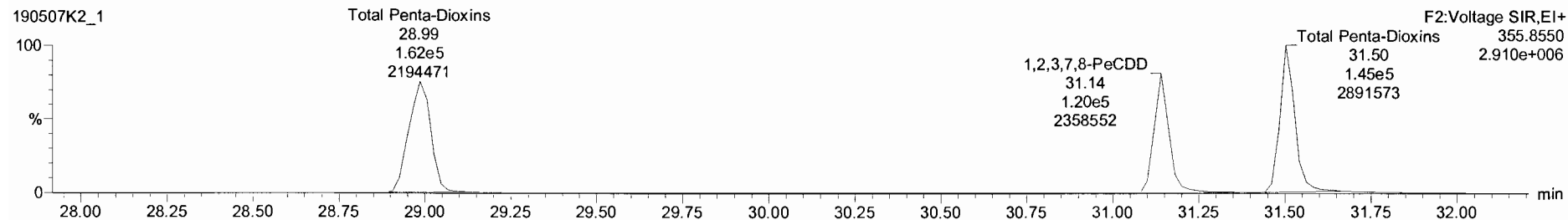
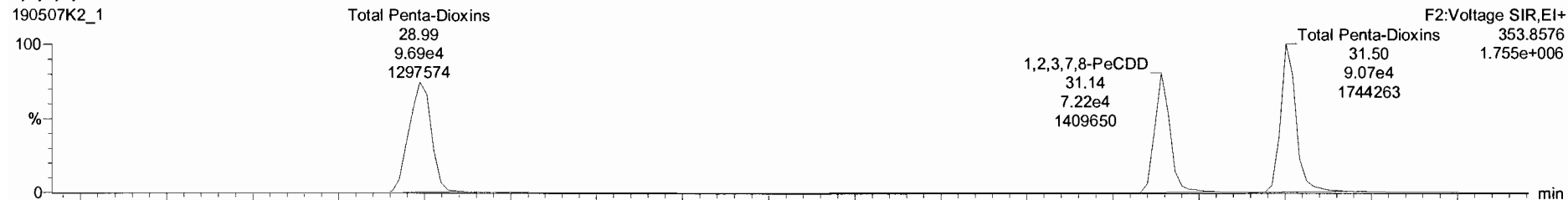


Dataset: Untitled

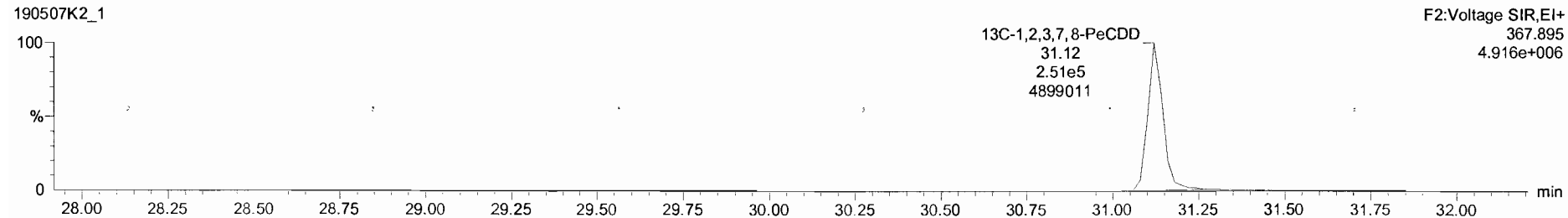
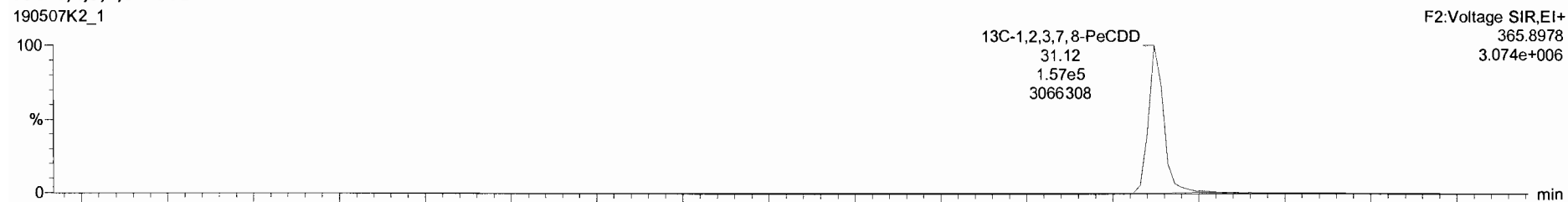
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K2\_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2\_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

**1,2,3,7,8-PeCDD**



**13C-1,2,3,7,8-PeCDD**



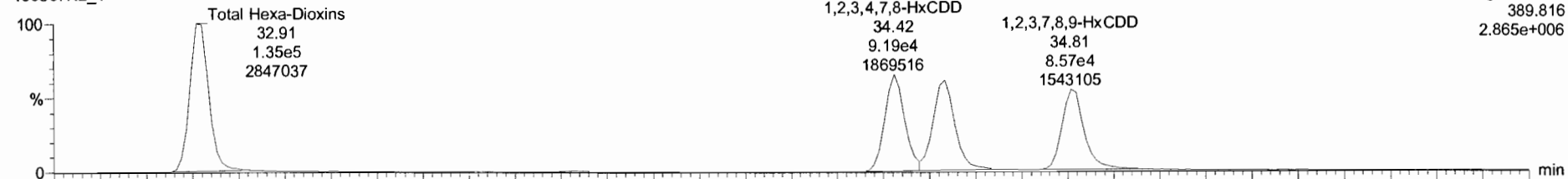
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

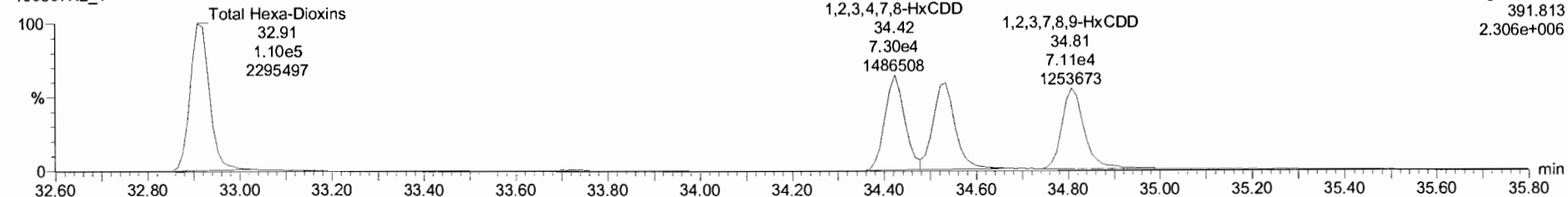
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**1,2,3,4,7,8-HxCDD**

190507K2\_1

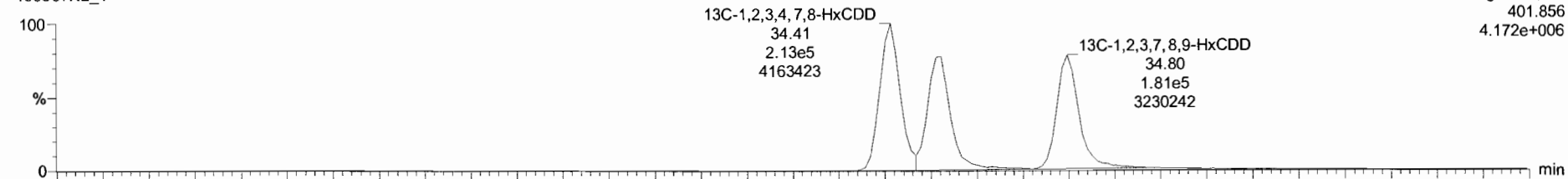


190507K2\_1

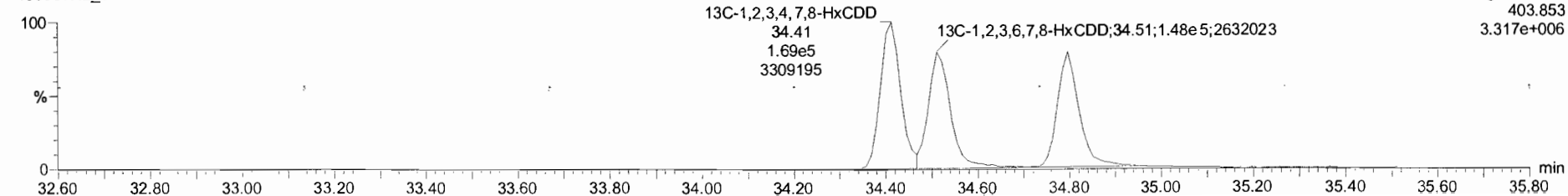


**13C-1,2,3,4,7,8-HxCDD**

190507K2\_1



190507K2\_1



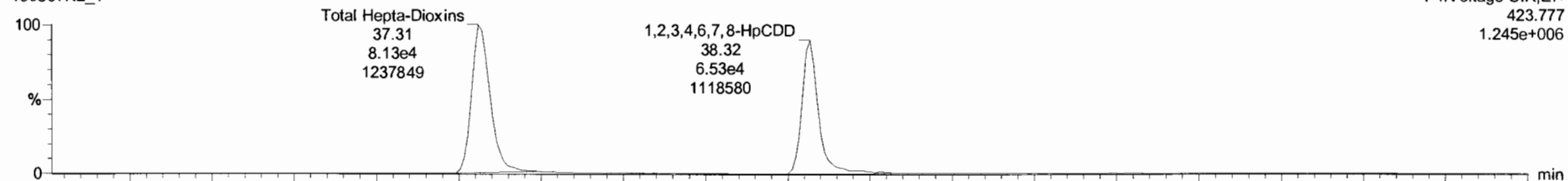
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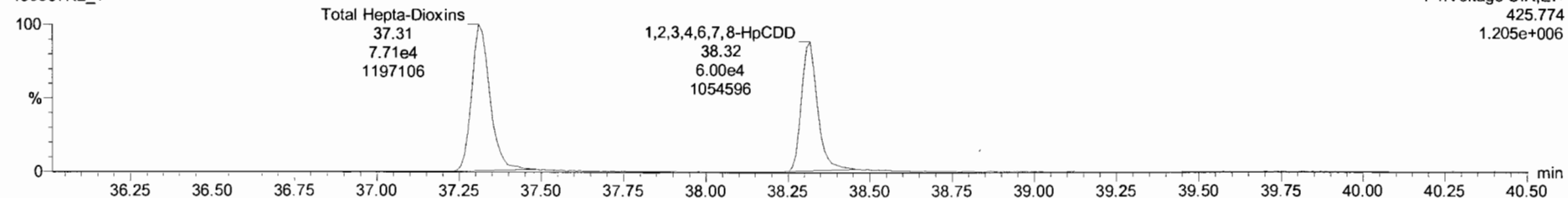
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1,2,3,4,6,7,8-HpCDD

190507K2\_1

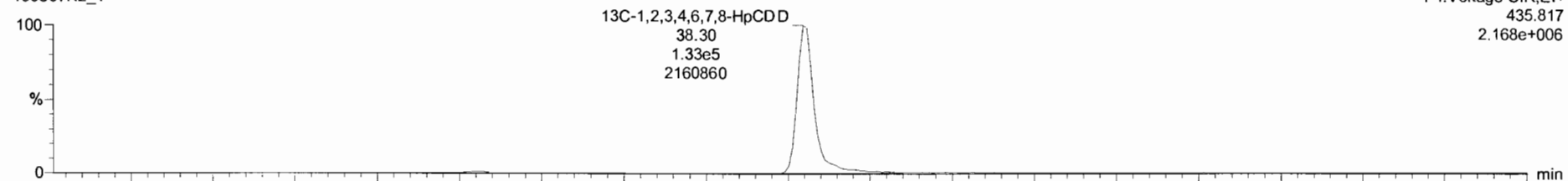


190507K2\_1

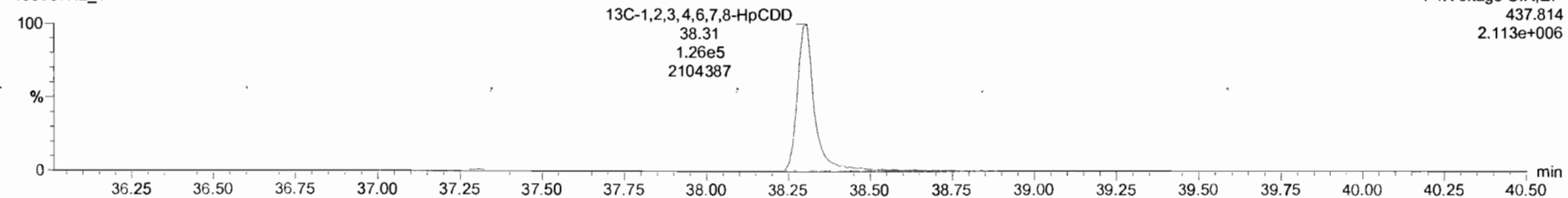


13C-1,2,3,4,6,7,8-HpCDD

190507K2\_1



190507K2\_1



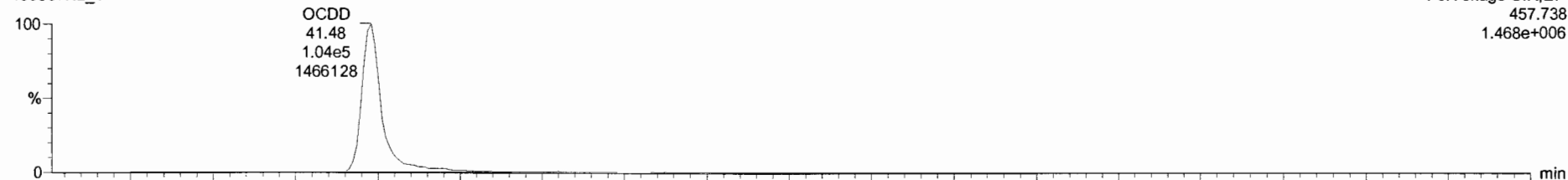
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

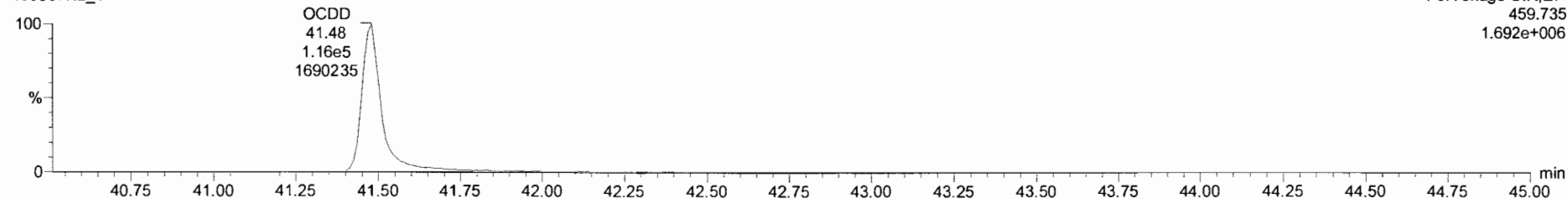
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**OCDD**

190507K2\_1



190507K2\_1

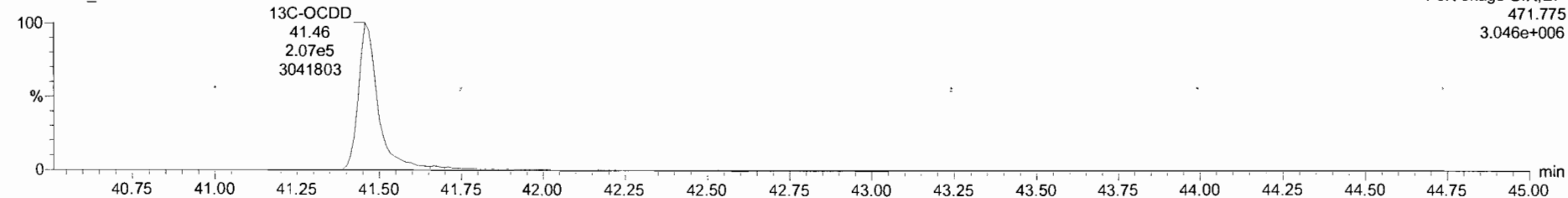


**13C-OCDD**

190507K2\_1



190507K2\_1

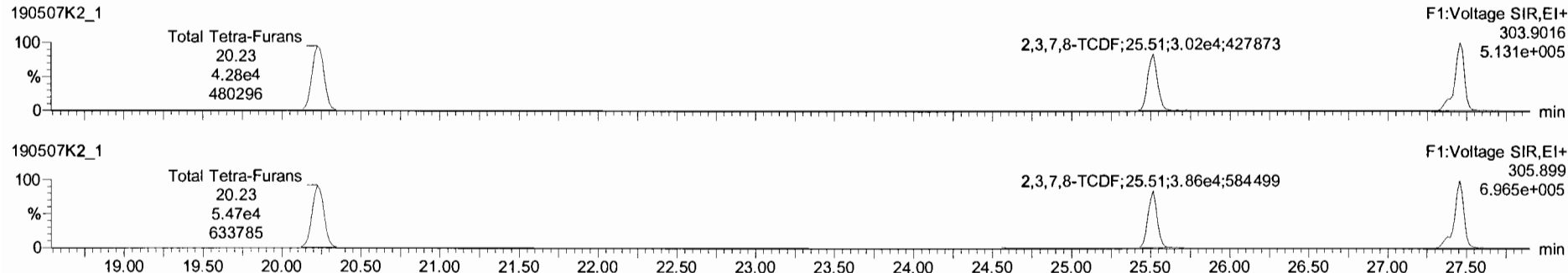


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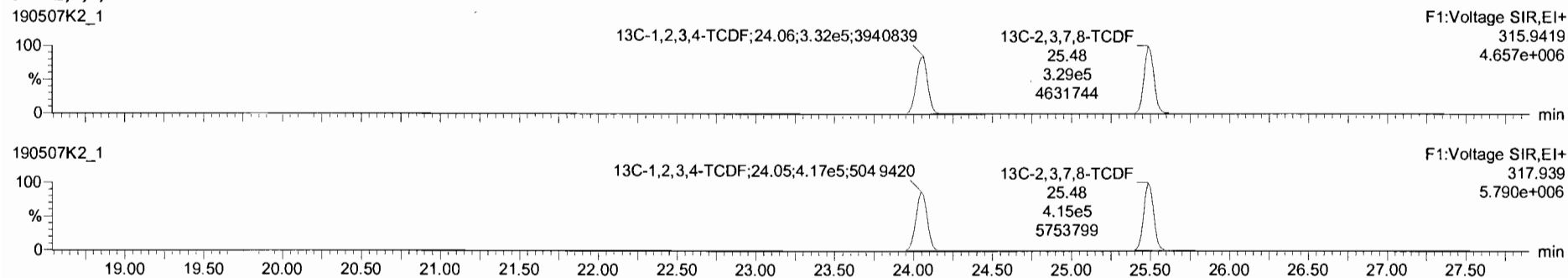
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K2\_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2\_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

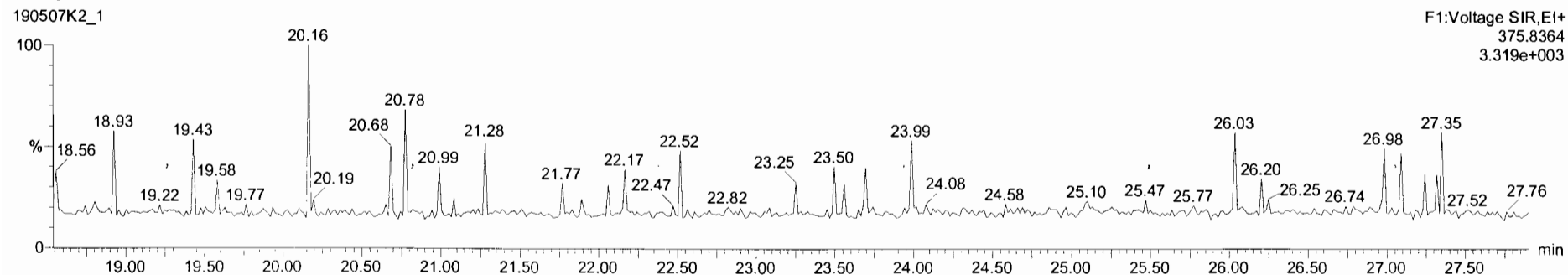
**2,3,7,8-TCDF**



**13C-2,3,7,8-TCDF**



**DPE1**



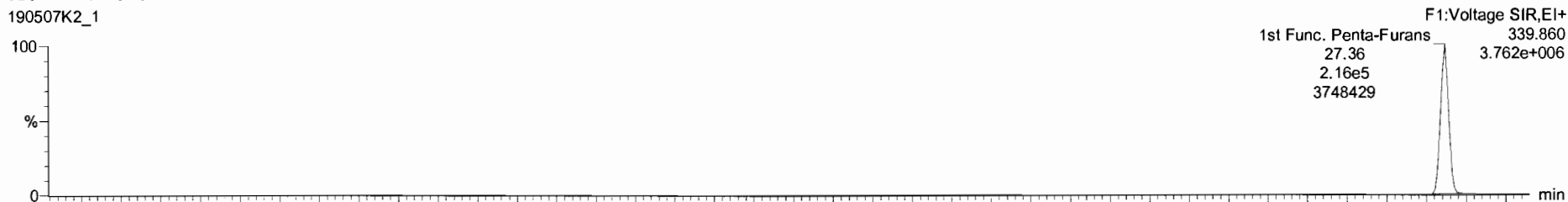
Dataset: Untitled

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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

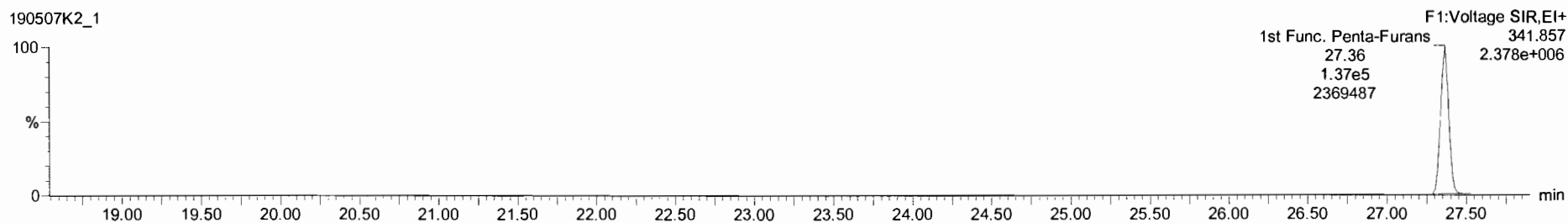
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1st Func. Penta-Furans

190507K2\_1

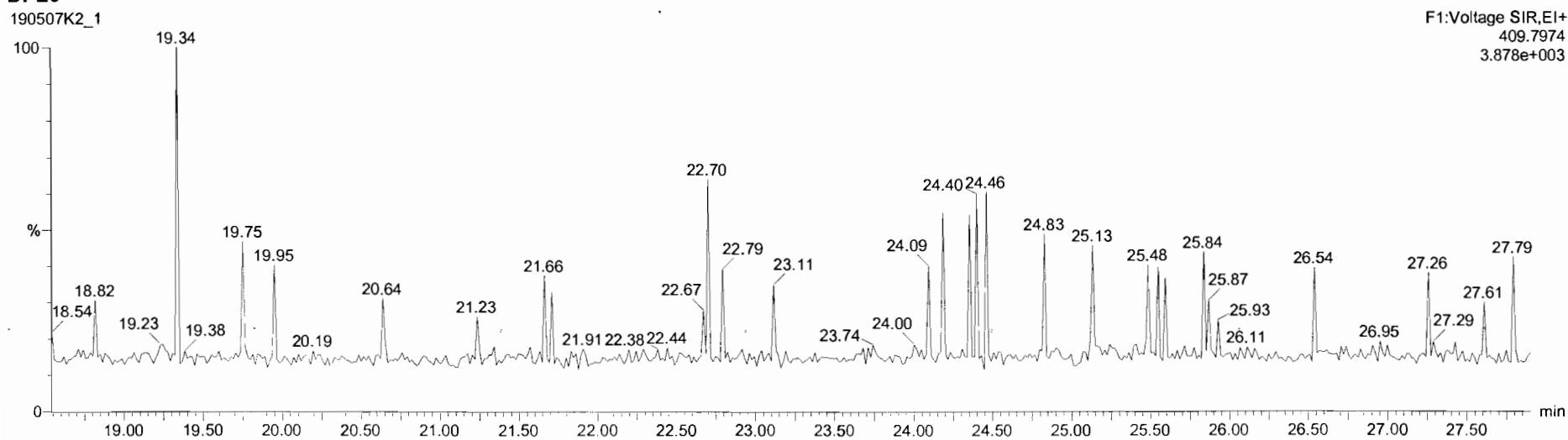


190507K2\_1



DPE6

190507K2\_1



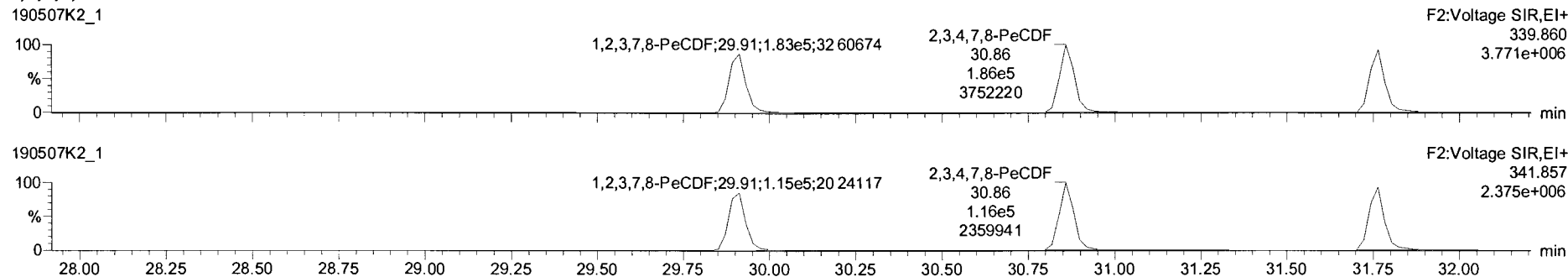
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K2\_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2\_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

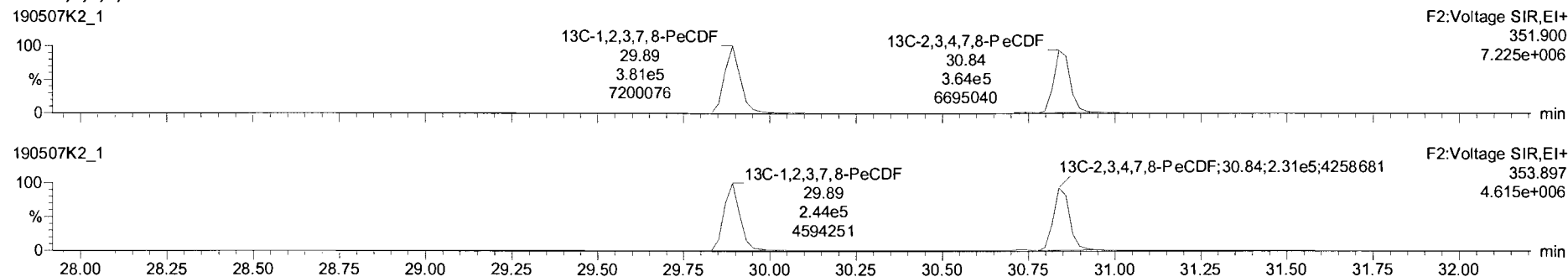
**1,2,3,7,8-PeCDF**

190507K2\_1



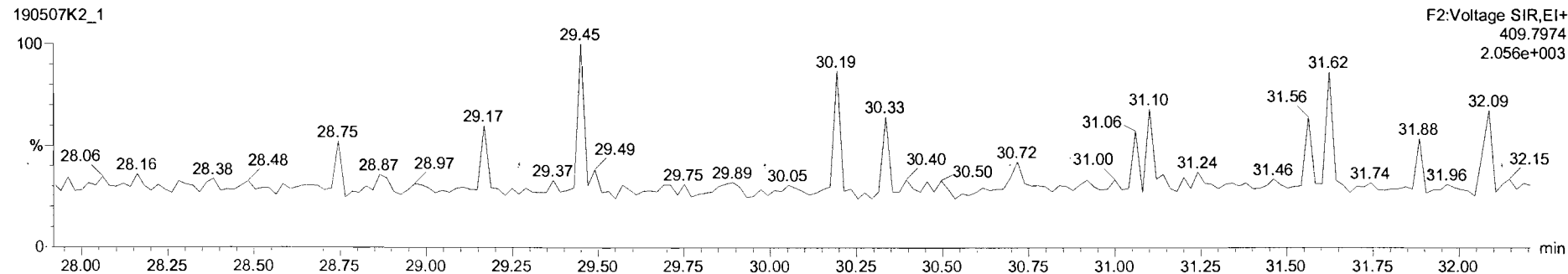
**13C-1,2,3,7,8-PeCDF**

190507K2\_1



**DPE2**

190507K2\_1





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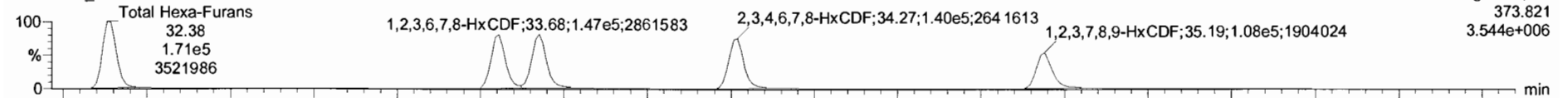
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

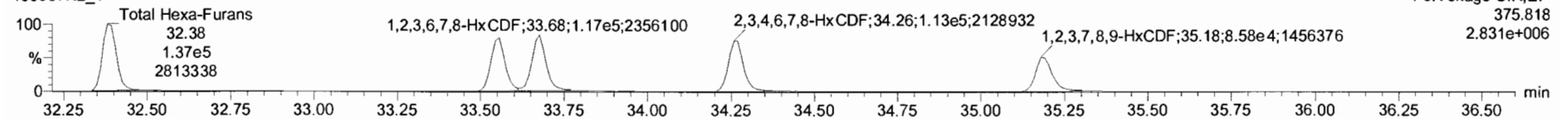
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**1,2,3,4,7,8-HxCDF**

190507K2\_1

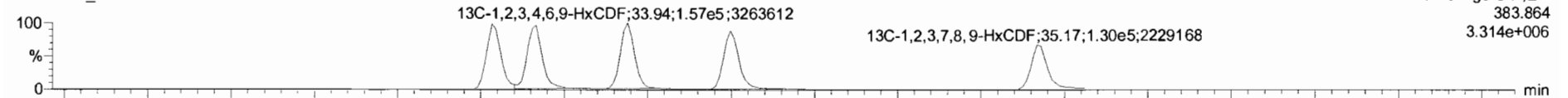


190507K2\_1

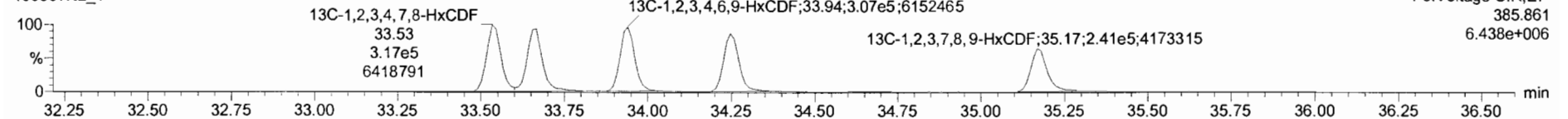


**13C-1,2,3,4,7,8-HxCDF**

190507K2\_1

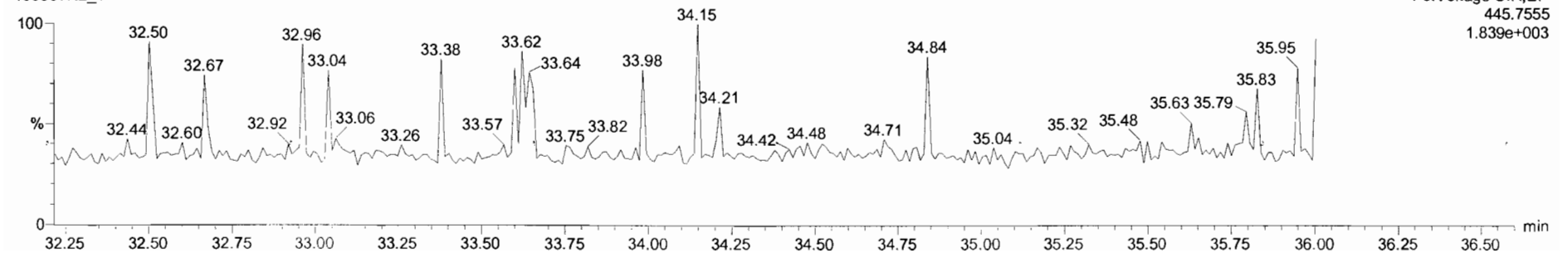


190507K2\_1



**DPE3**

190507K2\_1



Dataset: Untitled

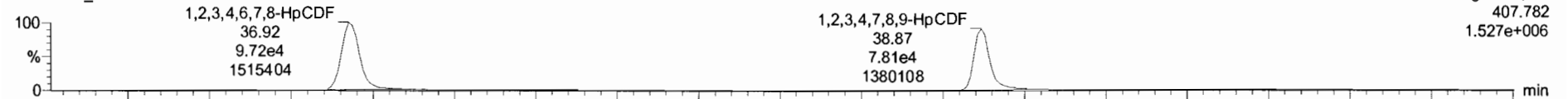
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

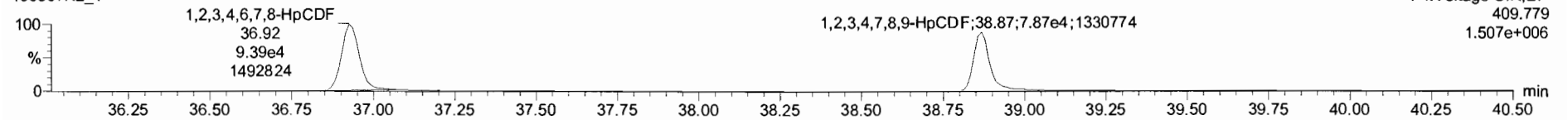
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**1,2,3,4,6,7,8-HpCDF**

190507K2\_1

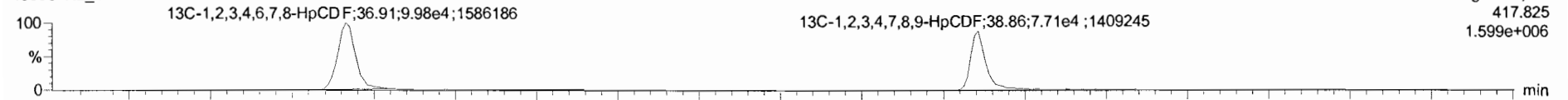


190507K2\_1

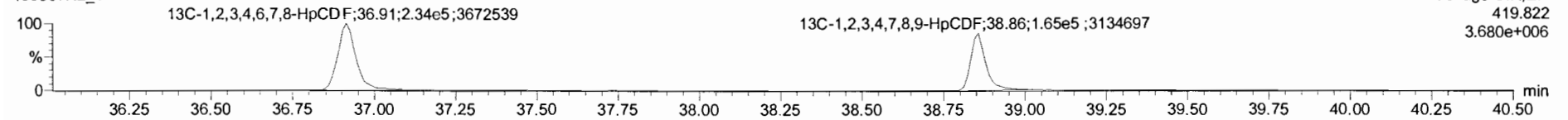


**13C-1,2,3,4,6,7,8-HpCDF**

190507K2\_1

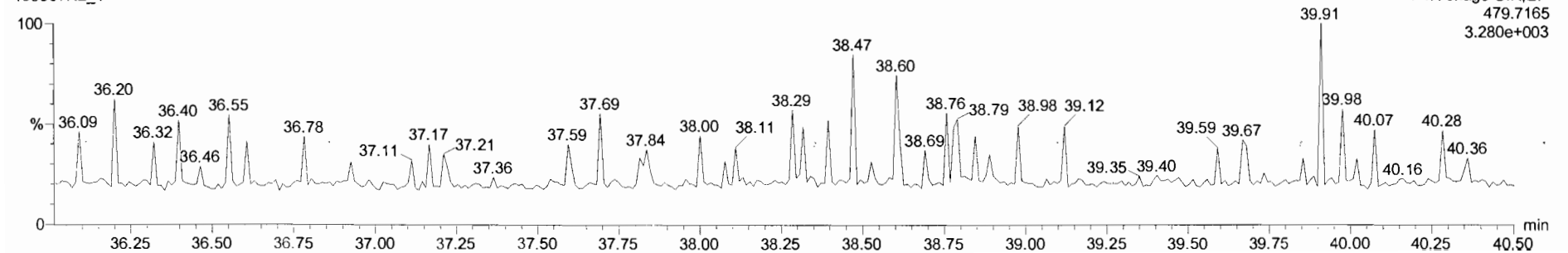


190507K2\_1



**DPE4**

190507K2\_1

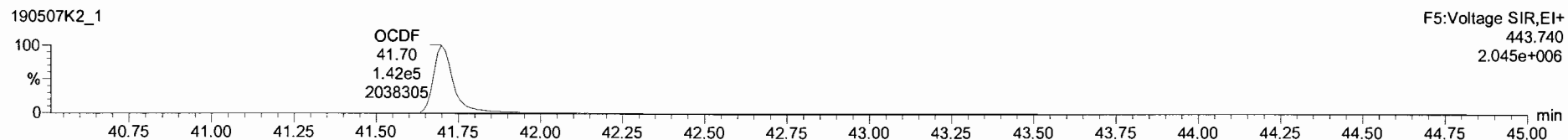
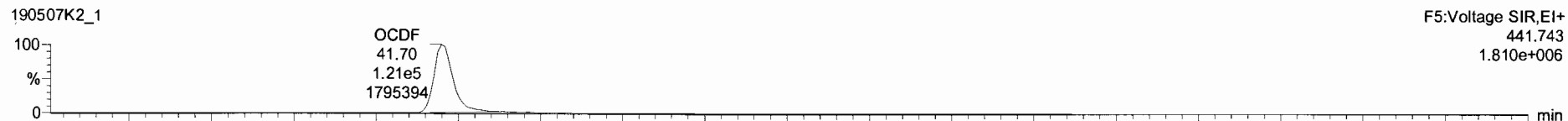


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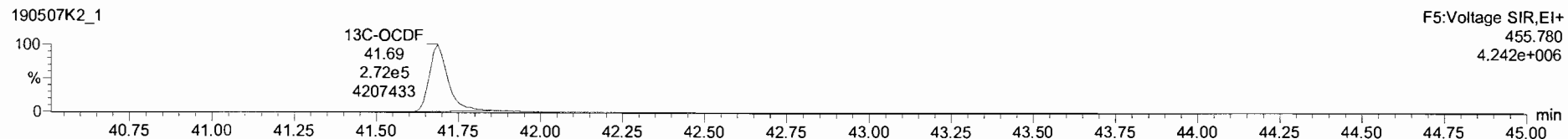
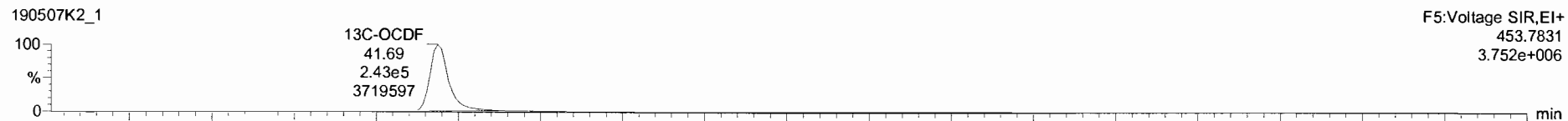
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K2\_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2\_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

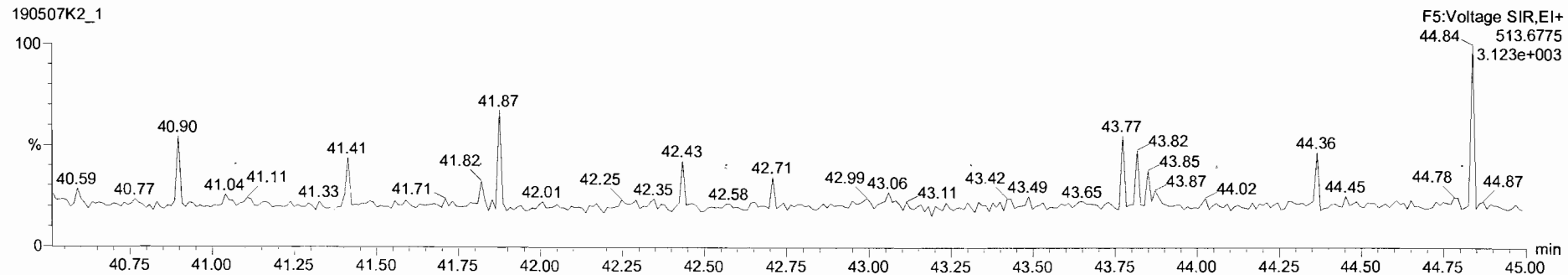
**OCDF**



**13C-OCDF**



**DPE5**

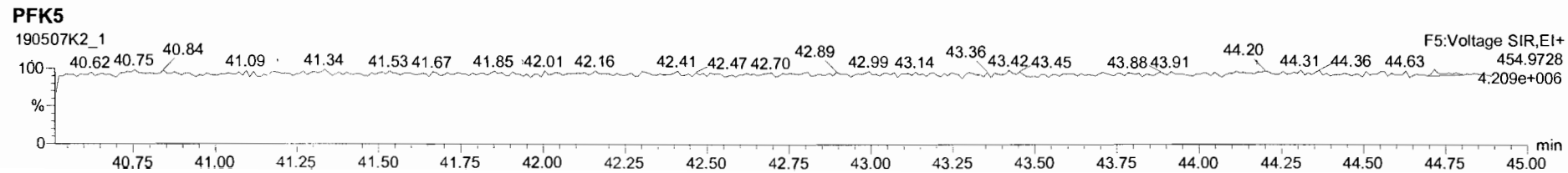
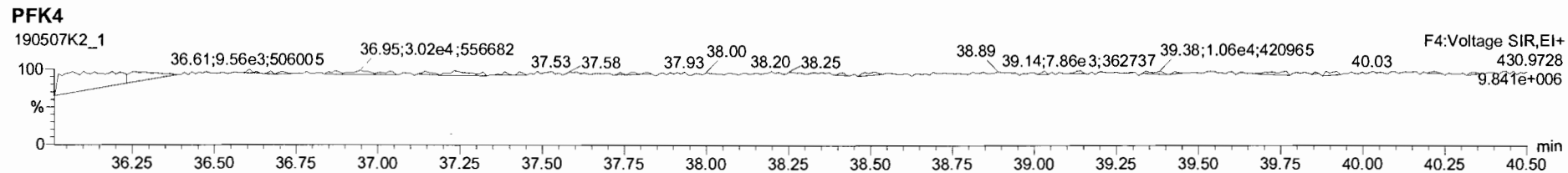
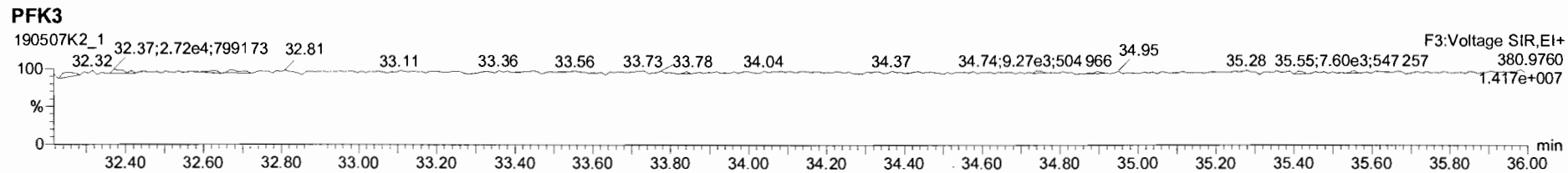
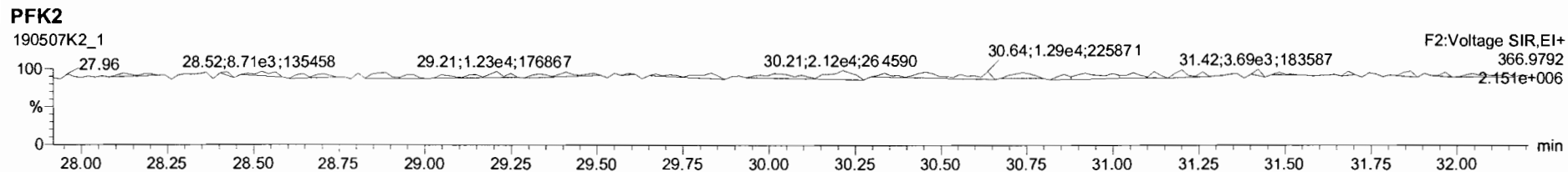
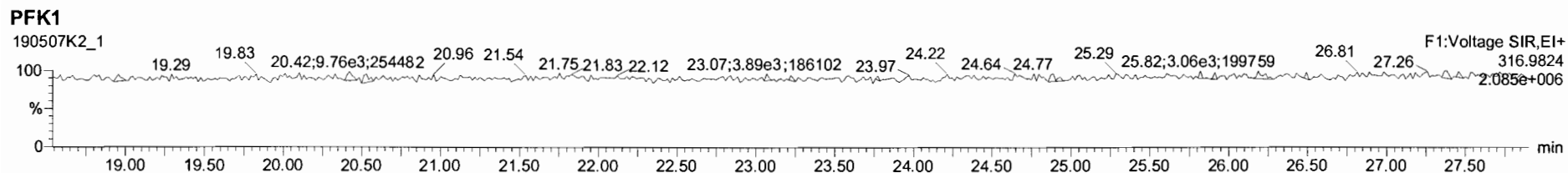


Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K2\_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2\_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008



Initial Calibration RRF Summary (ICAL)

Vista Analytical Laboratory

Run: Analyte: TCDF

Cal: 1613TCDFVG7-5-30-19

Inst. ID. VG-7

Data filename: 190530D1

Samp# 3	Samp# 4	Samp# 5	Samp# 6	Samp# 7	Samp# 8
100	100	100	100	100	100

Name	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6
13C-1,2,3,4-TCDF	1.0000	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-2,3,7,8-TCDF	1.0212	4.27 %	1.07	1.04	1.03	1.05	0.98	0.96
2,3,7,8-TCDF	0.9476	9.58 %	1.12	0.93	0.88	0.87	0.97	0.92

DB CT  
5/30/19 05/31/19

Filename: 190530D1 S: 3      Acquired: 30-MAY-19 12:05:38  
Run:                      Analyte: TCDF    Cal: 1613TCDFVG7-5-30-19Results:  
Sample text: ST190530D1-1 1613 CS0 19C2201

Name	Amount	Resp	RA	RT	RF	RRF
13C-1,2,3,4-TCDF	100	1.38e+07	0.80 y	15:49	-	1.00
13C-2,3,7,8-TCDF	100	1.47e+07	0.81 y	18:05	-	1.07
2,3,7,8-TCDF	0.250	4.11e+04	0.87 y	18:06	-	1.12

DB  
5/30/19

Filename: 190530D1 S: 4      Acquired: 30-MAY-19 12:37:29  
Run:                      Analyte: TCDF    Cal: 1613TCDFVG7-5-30-19Results:  
Sample text: ST190530D1-2 1613 CS1 19C2202

Name	Amount	Resp	RA	RT	RF	RRF
13C-1,2,3,4-TCDF	100	1.24e+07	0.82 y	15:49	-	1.00
13C-2,3,7,8-TCDF	100	1.30e+07	0.78 y	18:05	-	1.04
2,3,7,8-TCDF	0.500	6.06e+04	0.67 y	18:05	-	0.93

DB  
5/30/19

Filename: 190530D1 S: 5      Acquired: 30-MAY-19 13:09:20  
Run:                      Analyte: TCDF    Cal: 1613TCDFVG7-5-30-19Results:  
Sample text: ST190530D1-3 1613 CS2 19C2203

Name	Amount	Resp	RA	RT	RF	RRF
13C-1,2,3,4-TCDF	100	1.21e+07	0.82 y	15:48	-	1.00
13C-2,3,7,8-TCDF	100	1.24e+07	0.80 y	18:04	-	1.03
2,3,7,8-TCDF	2.00	2.18e+05	0.74 y	18:05	-	0.88

DB  
5/30/19



Filename: 190530D1 S: 6      Acquired: 30-MAY-19 13:41:11  
Run:                      Analyte: TCDF    Cal: 1613TCDFVG7-5-30-19Results:  
Sample text: ST190530D1-4 1613 CS3 19C2204

Name	Amount	Resp	RA	RT	RF	RRF
13C-1,2,3,4-TCDF	100	1.28e+07	0.81 y	15:49	-	1.00
13C-2,3,7,8-TCDF	100	1.34e+07	0.80 y	18:05	-	1.05
2,3,7,8-TCDF	10.0	1.17e+06	0.73 y	18:06	-	0.87

DB  
5/30/19

Filename: 190530D1 S: 7      Acquired: 30-MAY-19 14:13:01  
Run:                      Analyte: TCDF    Cal: 1613TCDFVG7-5-30-19Results:  
Sample text: ST190530D1-5 1613 CS4 19C2205

Name	Amount	Resp	RA	RT	RF	RRF
13C-1,2,3,4-TCDF	100	1.30e+07	0.81 y	15:49	-	1.00
13C-2,3,7,8-TCDF	100	1.28e+07	0.80 y	18:05	-	0.98
2,3,7,8-TCDF	40.0	4.95e+06	0.77 y	18:06	-	0.97

DB  
5/30/19

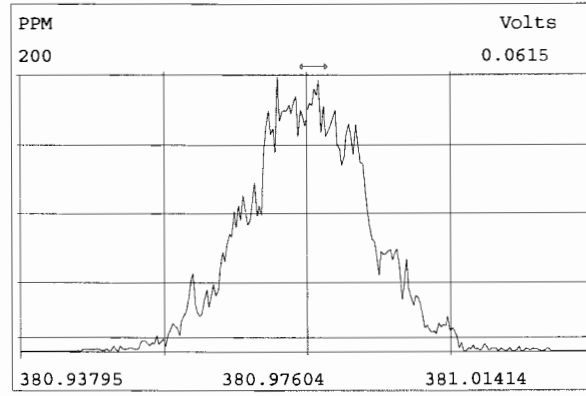
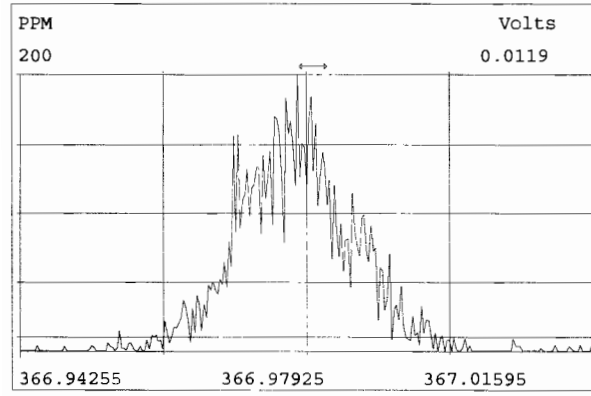
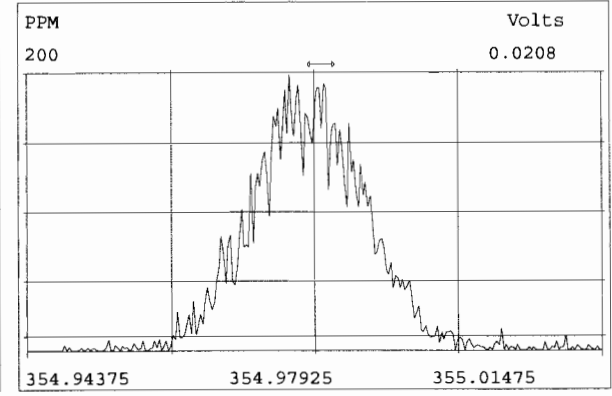
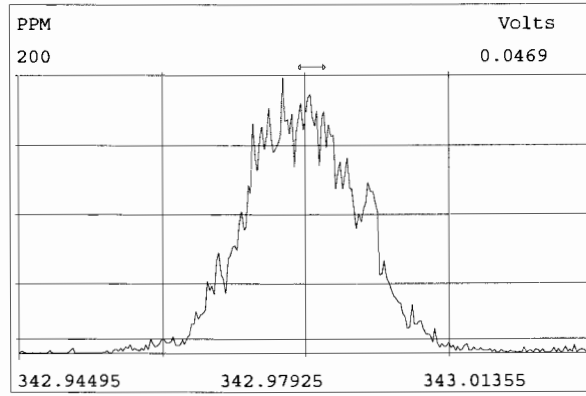
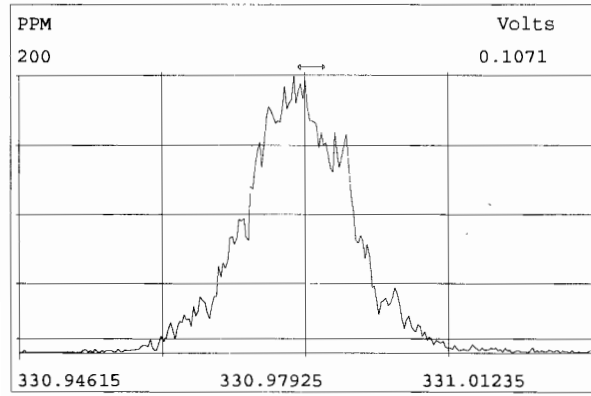
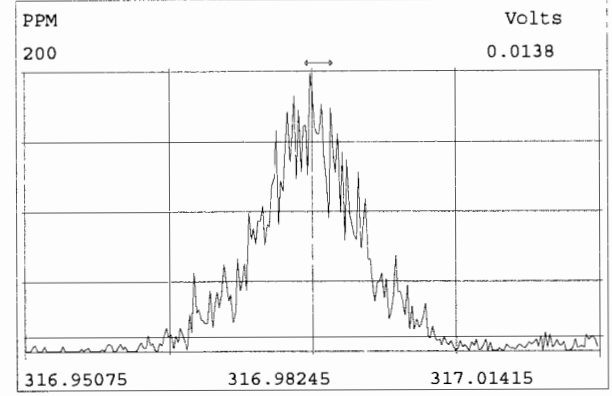
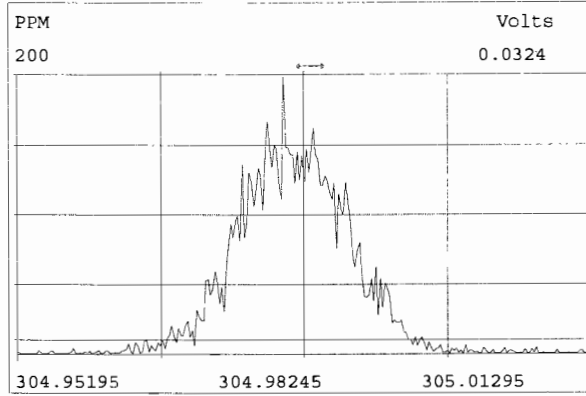
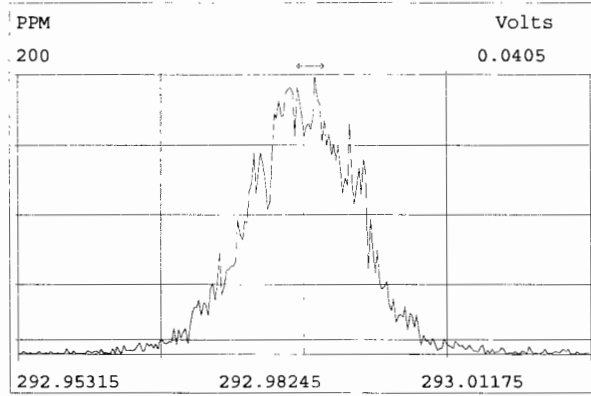
Filename: 190530D1 S: 8      Acquired: 30-MAY-19 14:44:52  
Run:                    Analyte: TCDF    Cal: 1613TCDFVG7-5-30-19Results:  
Sample text: ST190530D1-6 1613 CS5 19C2206

Name	Amount	Resp	RA	RT	RF	RRF
13C-1,2,3,4-TCDF	100	1.29e+07	0.80 y	15:48	-	1.00
13C-2,3,7,8-TCDF	100	1.24e+07	0.80 y	18:05	-	0.96
2,3,7,8-TCDF	300	3.42e+07	0.74 y	18:06	-	0.92

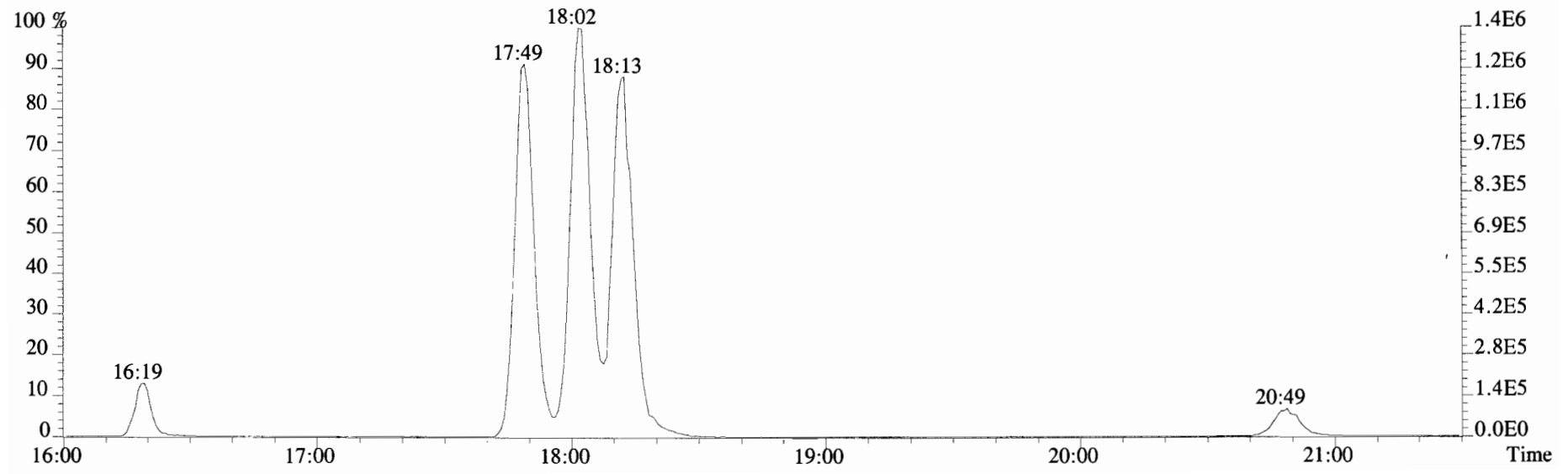
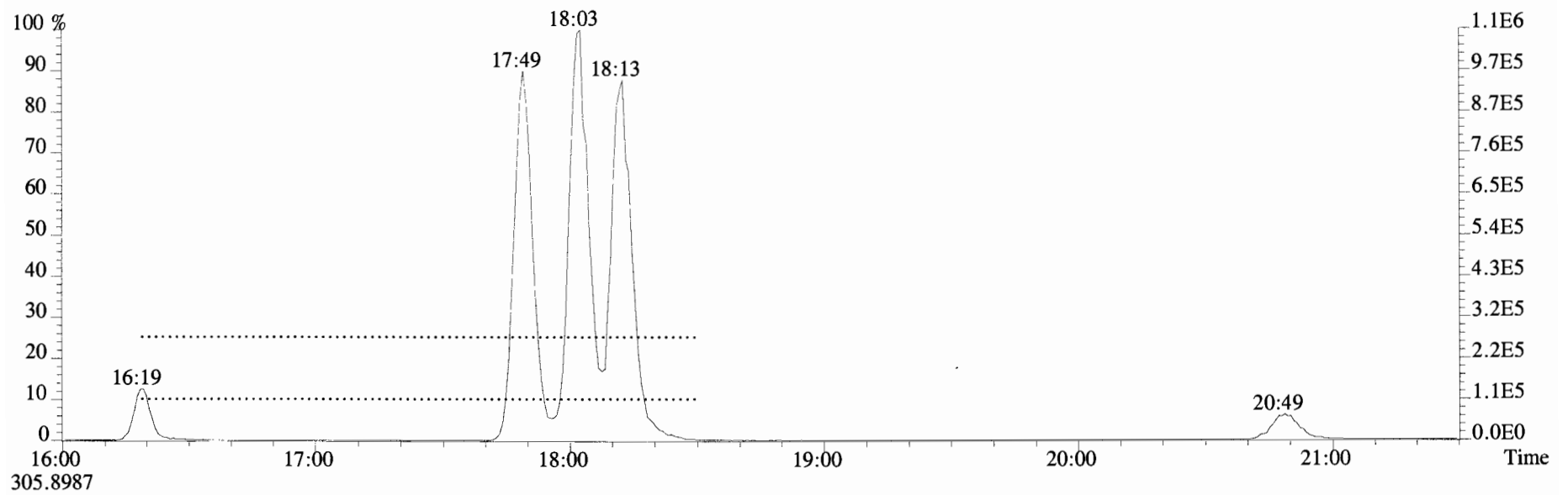
DB  
5/30/19

Vista Analytical Laboratory - Injection Log Run file: 190530D1 Instrument ID: VG-7 GC Column ID: DB-225

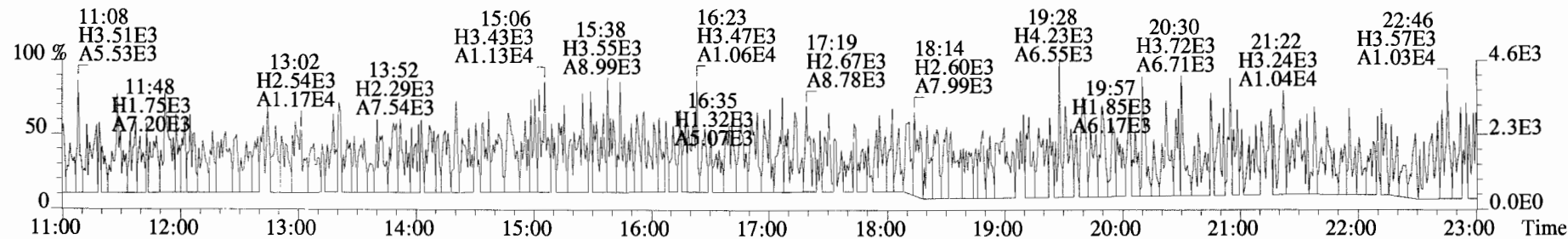
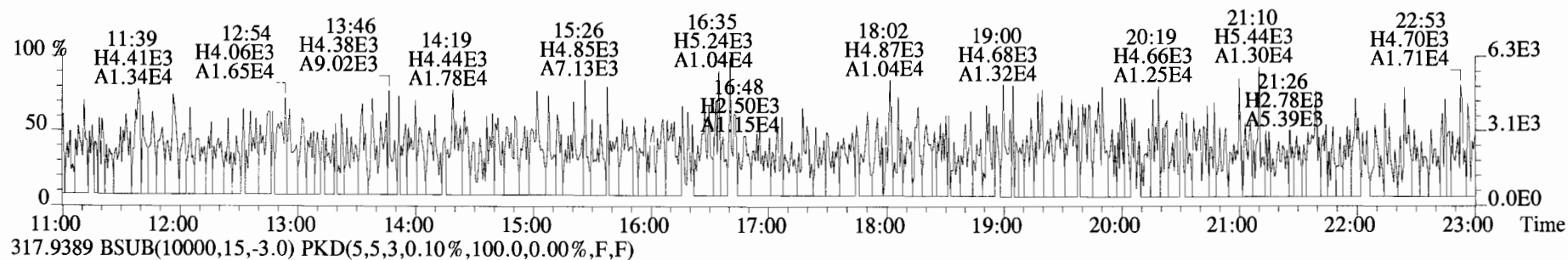
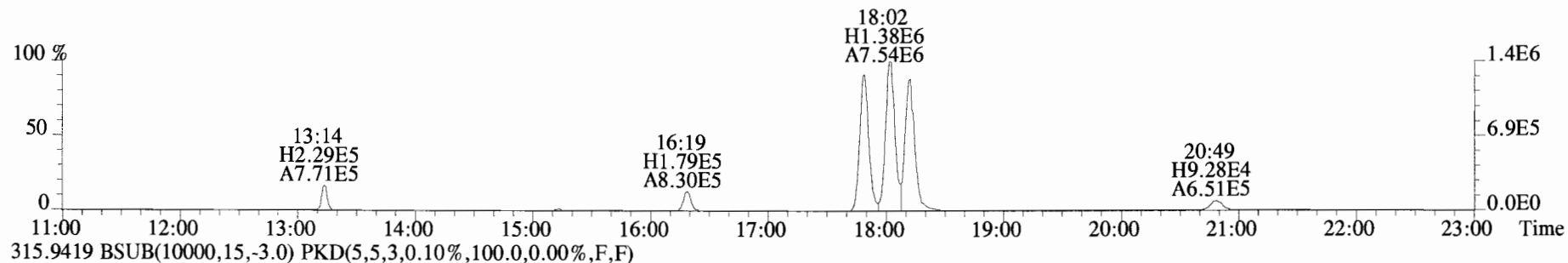
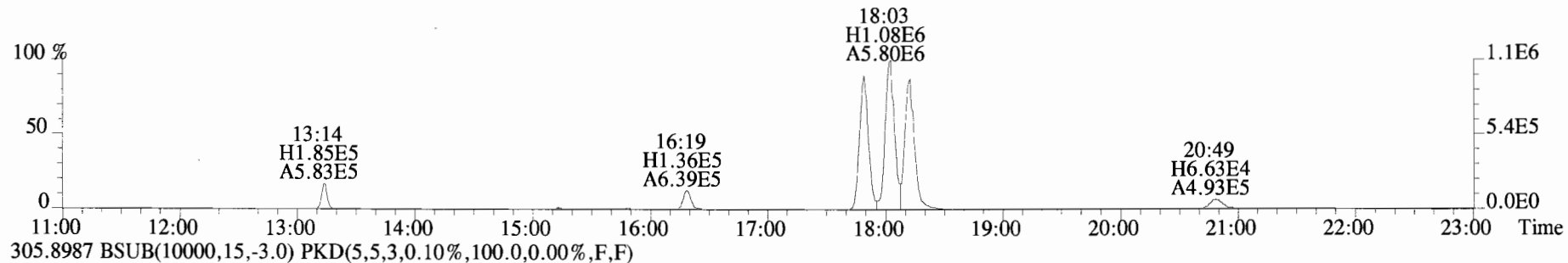
Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
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190530D1	2	SOLVENT BLANK	DB	30-MAY-19	11:33:52	ST190530D1-4	NA
190530D1	3	ST190530D1-1	DB	30-MAY-19	12:05:38	ST190530D1-4	NA
190530D1	4	ST190530D1-2	DB	30-MAY-19	12:37:29	ST190530D1-4	NA
190530D1	5	ST190530D1-3	DB	30-MAY-19	13:09:20	ST190530D1-4	NA
190530D1	6	ST190530D1-4	DB	30-MAY-19	13:41:11	ST190530D1-4	NA
190530D1	7	ST190530D1-5	DB	30-MAY-19	14:13:01	ST190530D1-4	NA
190530D1	8	ST190530D1-6	DB	30-MAY-19	14:44:52	ST190530D1-4	NA
190530D1	9	SOLVENT BLANK	DB	30-MAY-19	15:16:42	ST190530D1-4	NA
190530D1	10	SS190528D1-1	DB	30-MAY-19	15:48:32	ST190530D1-4	NA
190530D1	11	SOLVENT BLANK	DB	30-MAY-19	16:20:23	ST190530D1-4	NA
190530D1	12	1901028-05RE1	DB	30-MAY-19	16:52:12	ST190530D1-4	NA
190530D1	13	1901028-07RE1	DB	30-MAY-19	17:24:02	ST190530D1-4	NA
190530D1	14	1901028-08RE1	DB	30-MAY-19	17:55:52	ST190530D1-4	NA
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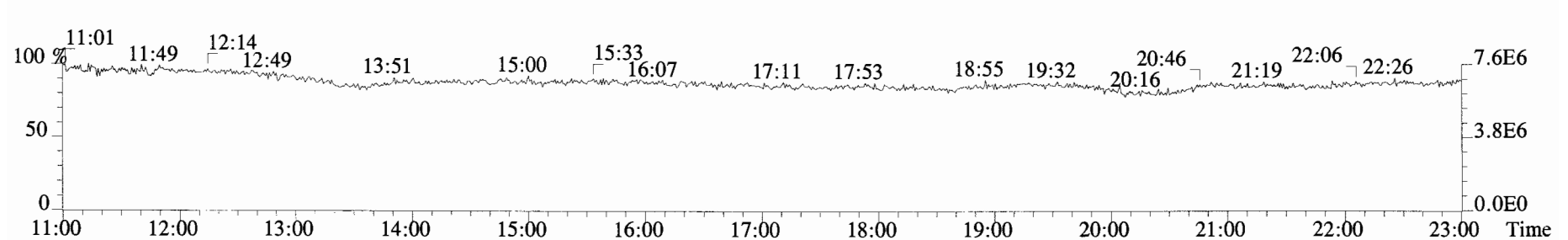
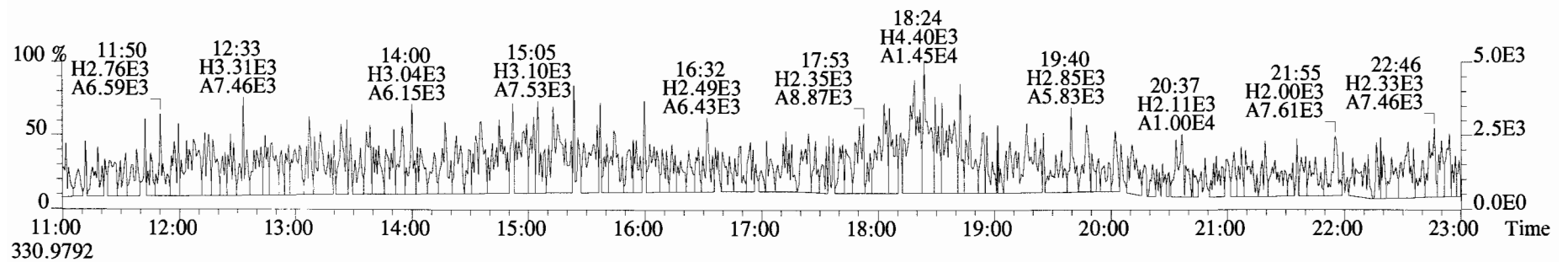
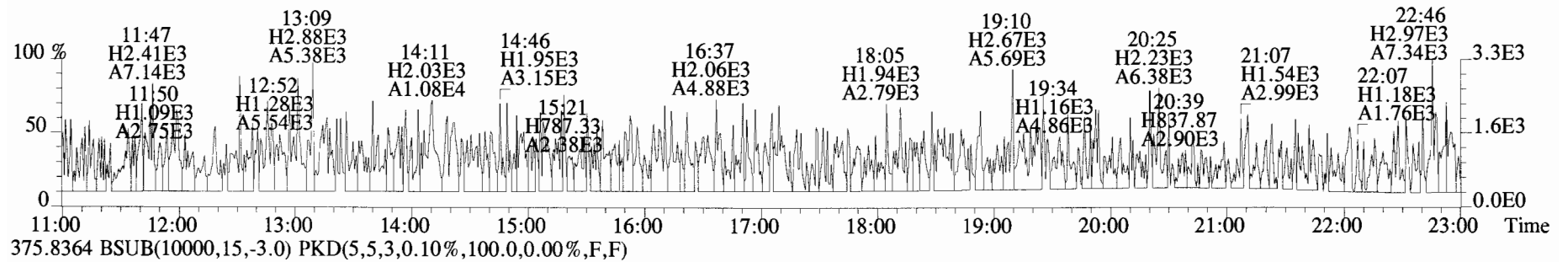
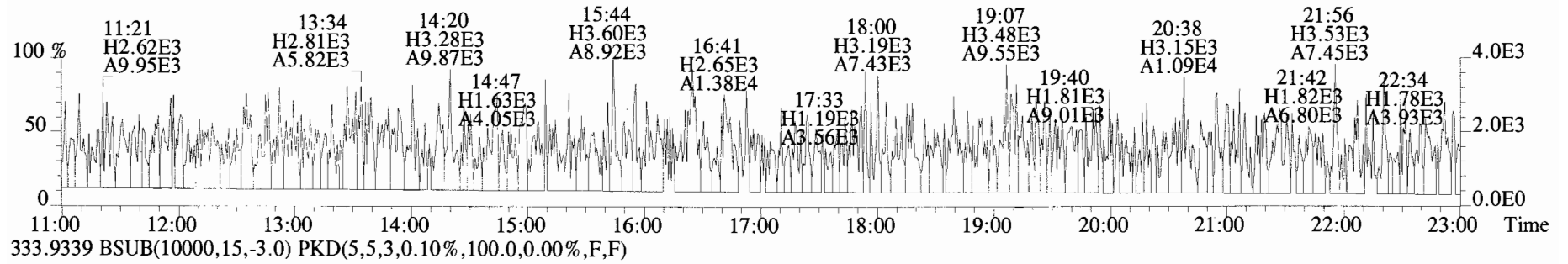
File:190530D1 #1-1559 Acq:30-MAY-2019 11:02:08 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:CP190530D1-1 DB225 CPSM Exp:TCDF\_DB225  
303.9016



File:190530D1 #1-1682 Acq:30-MAY-2019 11:02:08 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:CP190530D1-1 DB225 CPSM Exp:TCDF\_DB225  
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

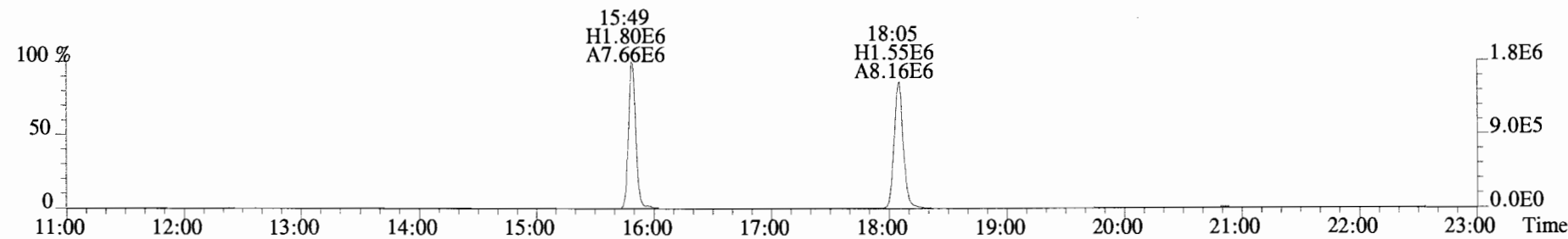
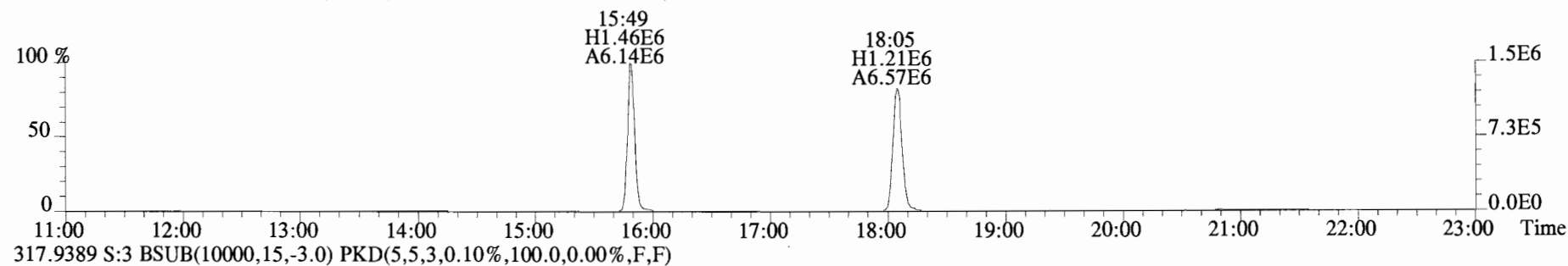
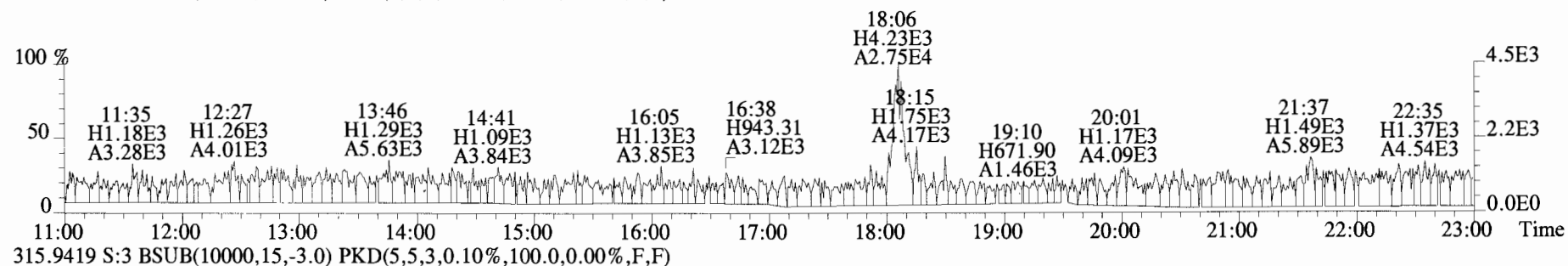
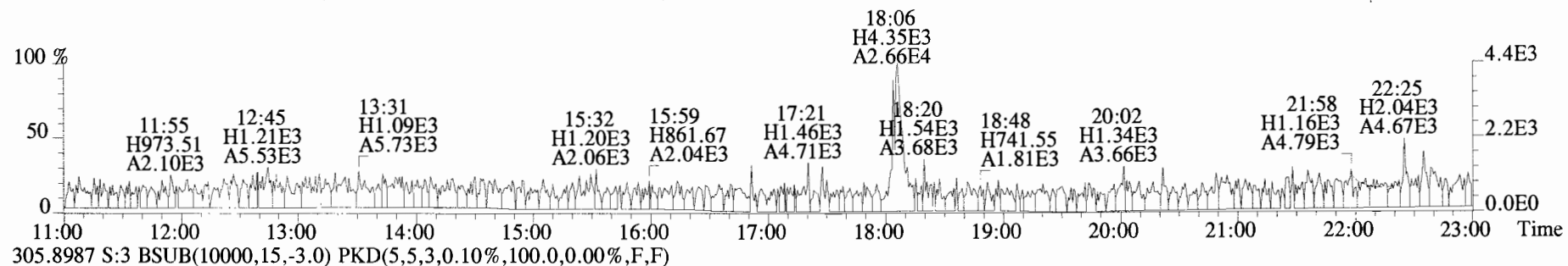


File:190530D1 #1-1682 Acq:30-MAY-2019 11:02:08 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:CP190530D1-1 DB225 CPSM Exp:TCDF\_DB225  
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

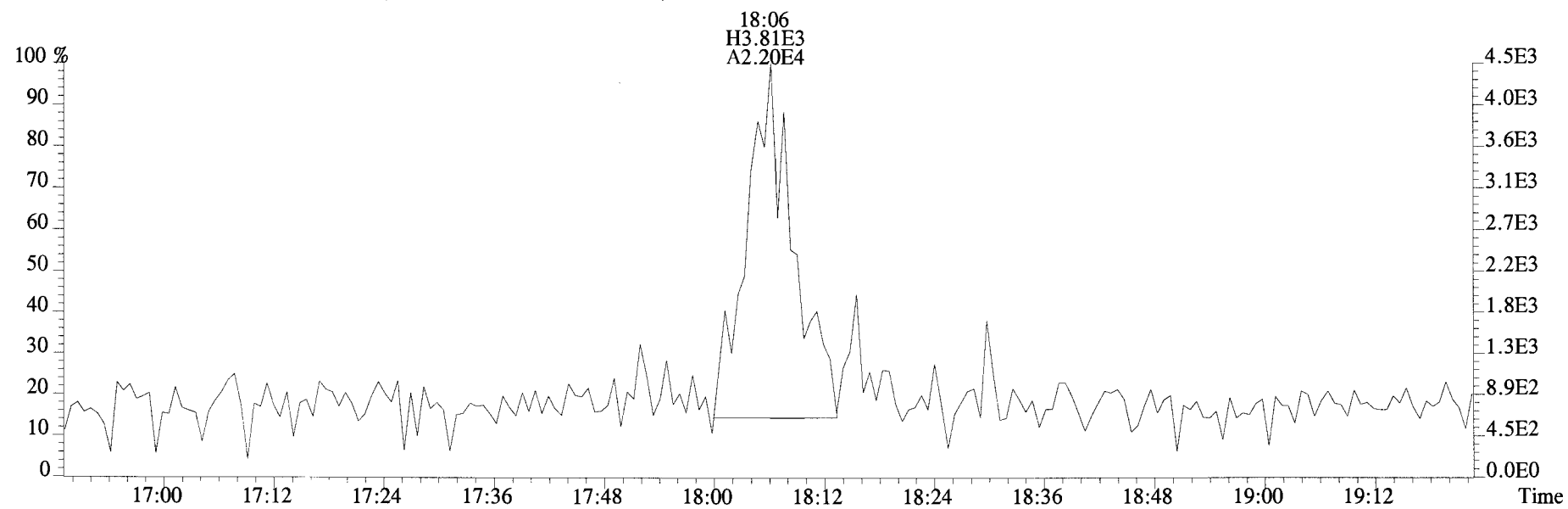
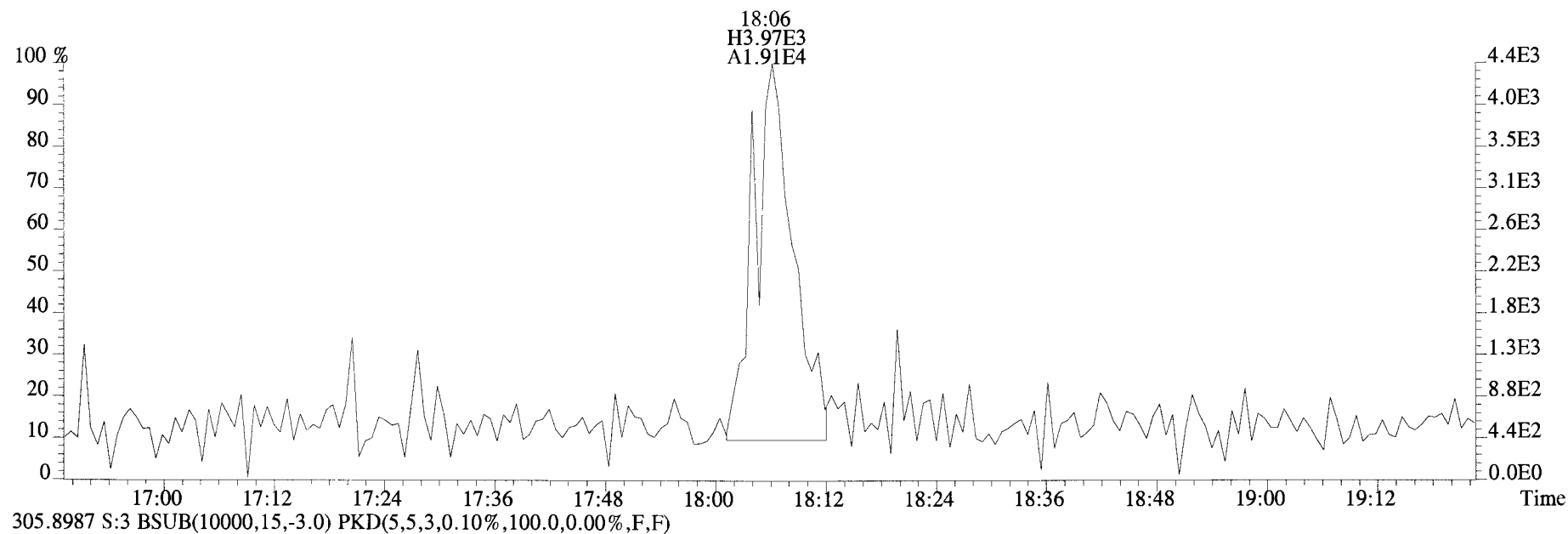




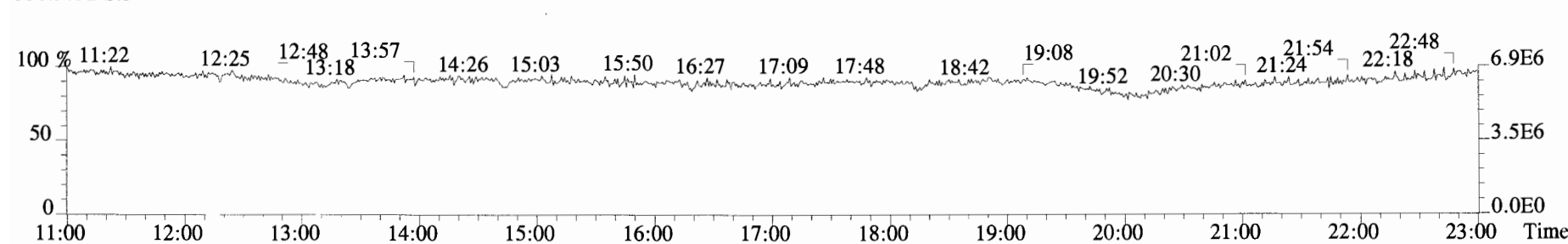
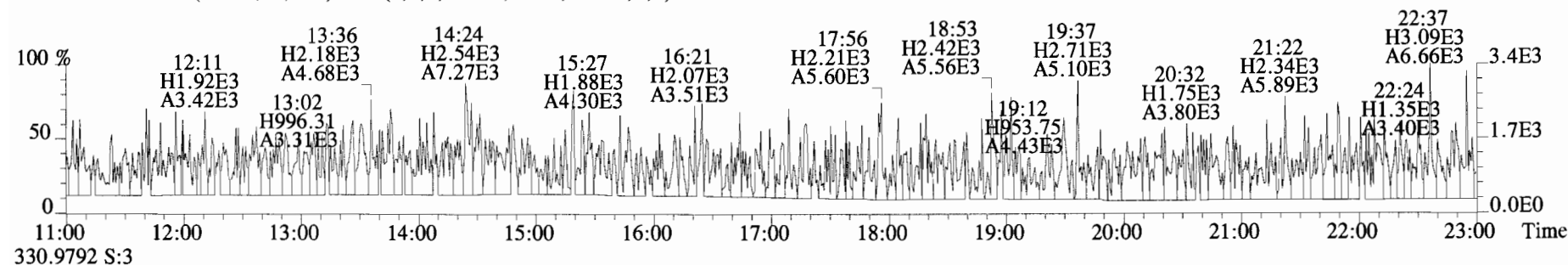
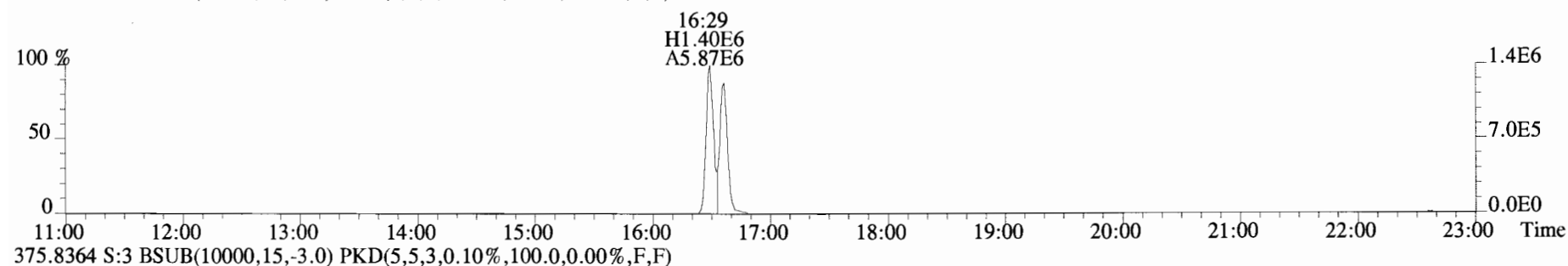
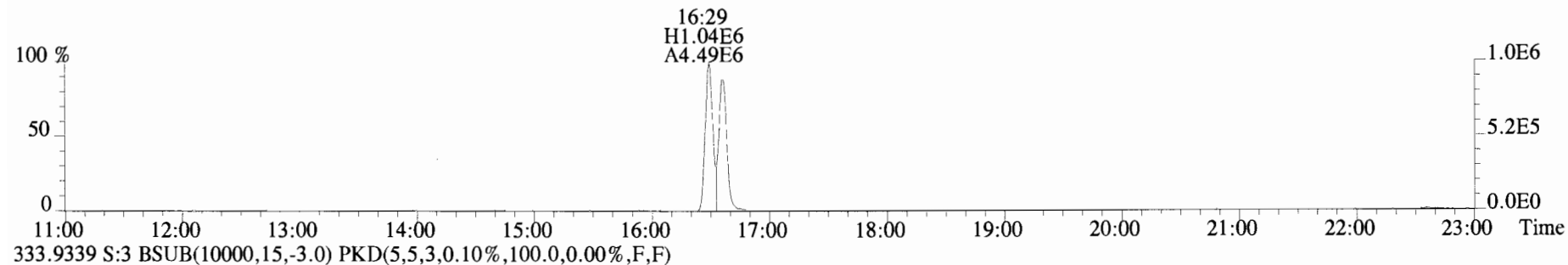
File:190530D1 #1-1682 Acq:30-MAY-2019 12:05:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-1 1613 CS0 19C2201 Exp:TCDF\_DB225  
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



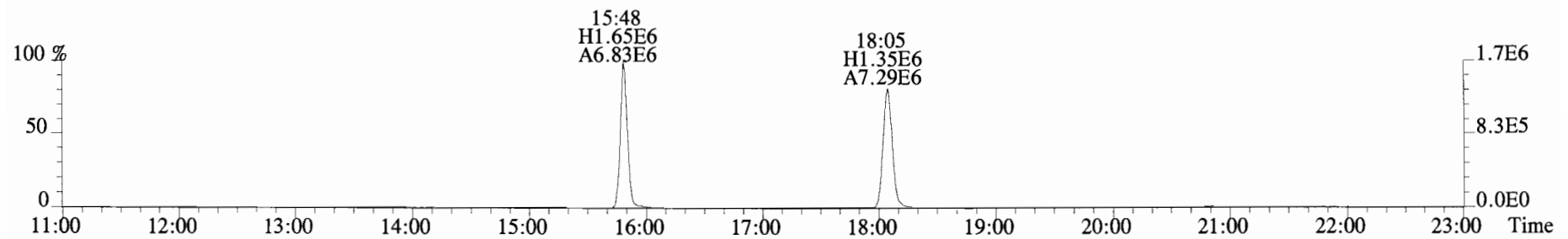
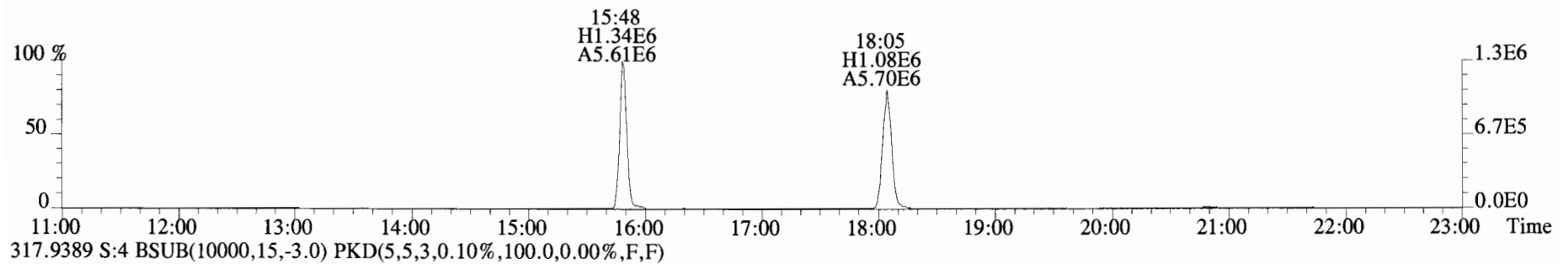
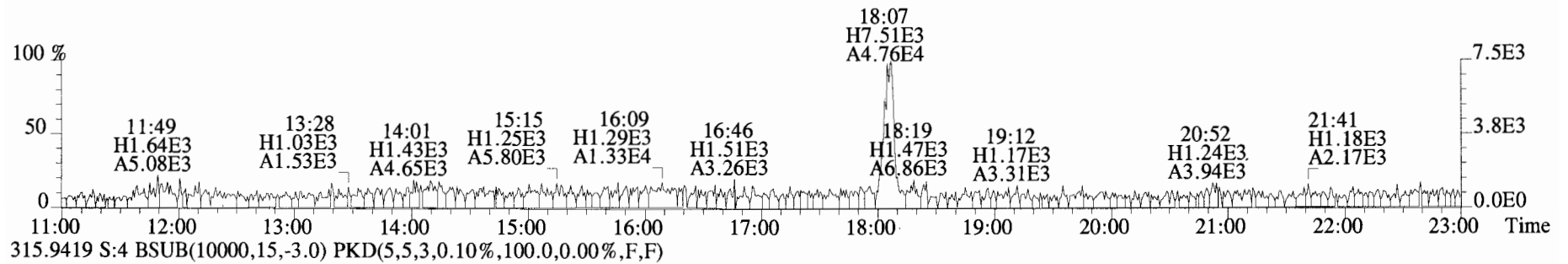
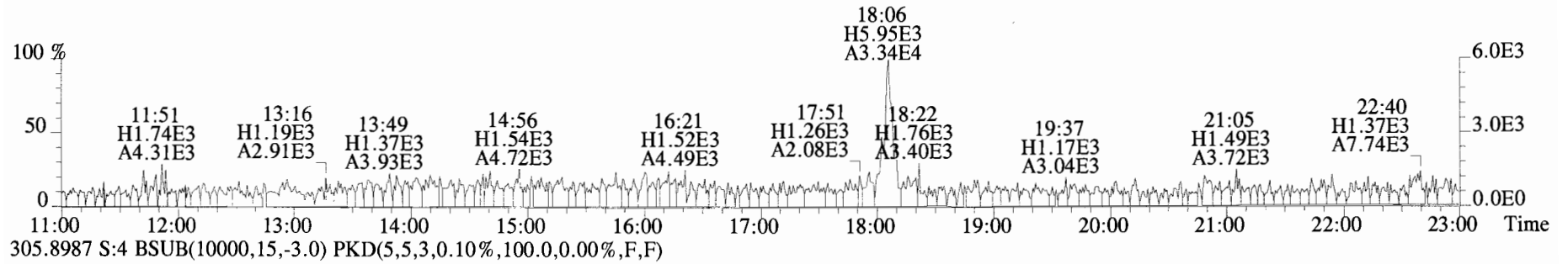
File:190530D1 #1-1682 Acq:30-MAY-2019 12:05:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-1 1613 CS0 19C2201 Exp:TCDF\_DB225  
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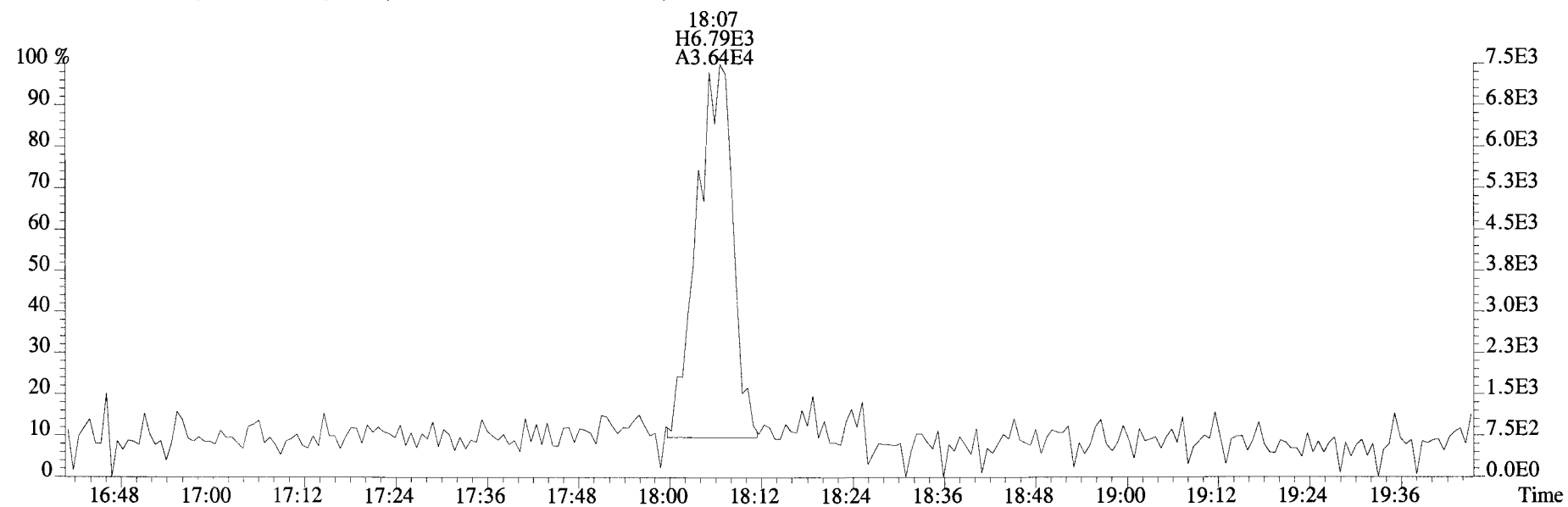
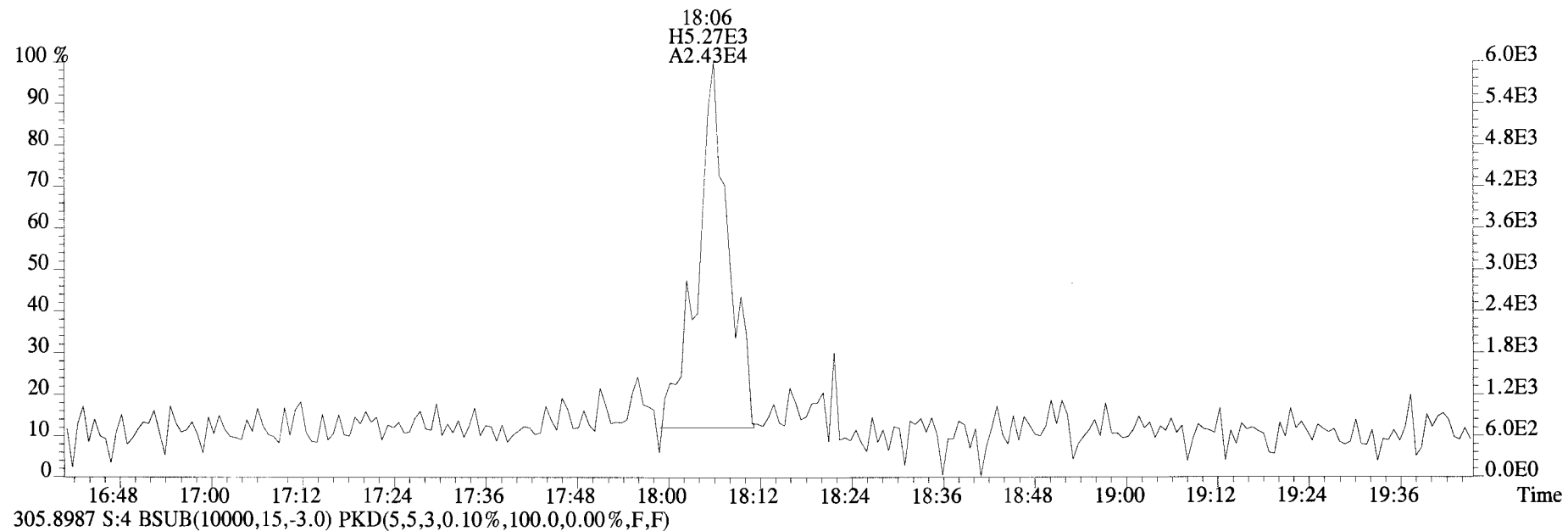
File:190530D1 #1-1682 Acq:30-MAY-2019 12:05:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory\_VG7 Text:ST190530D1-1 1613 CS0 19C2201 Exp:TCDF\_DB225  
331.9368 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



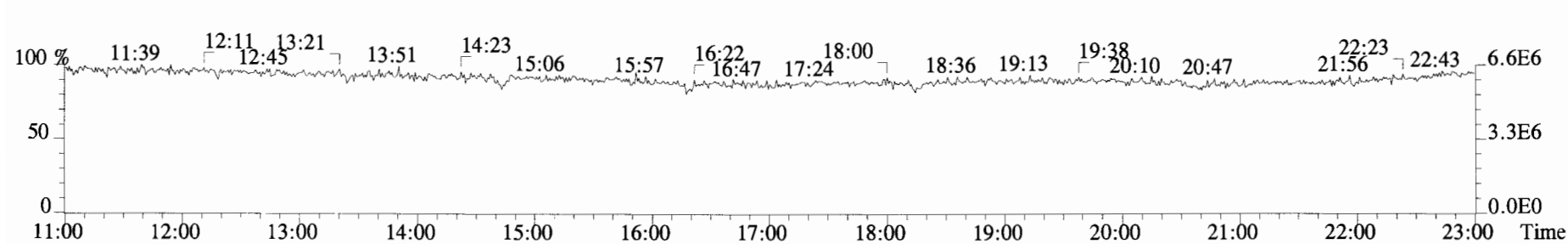
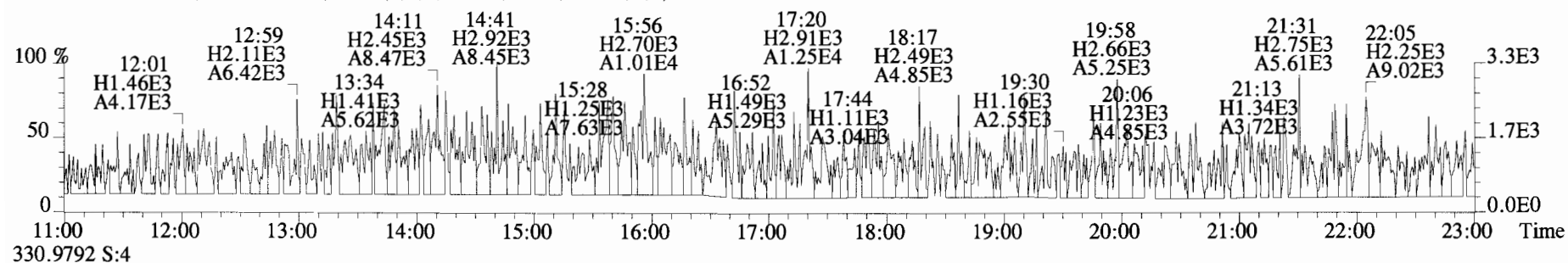
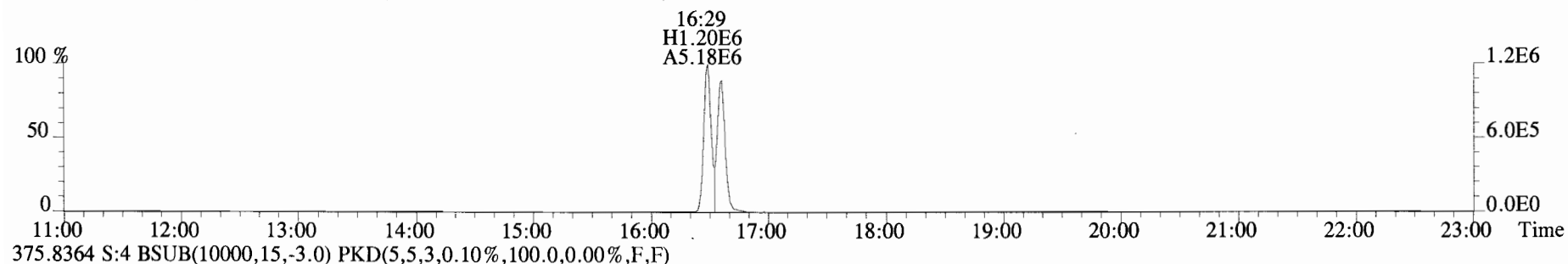
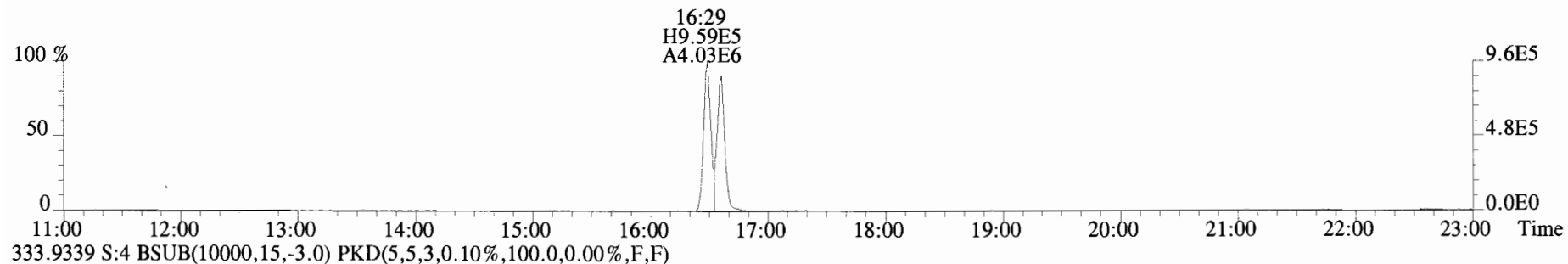
File:190530D1 #1-1683 Acq:30-MAY-2019 12:37:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-2 1613 CS1 19C2202 Exp:TCDF\_DB225  
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



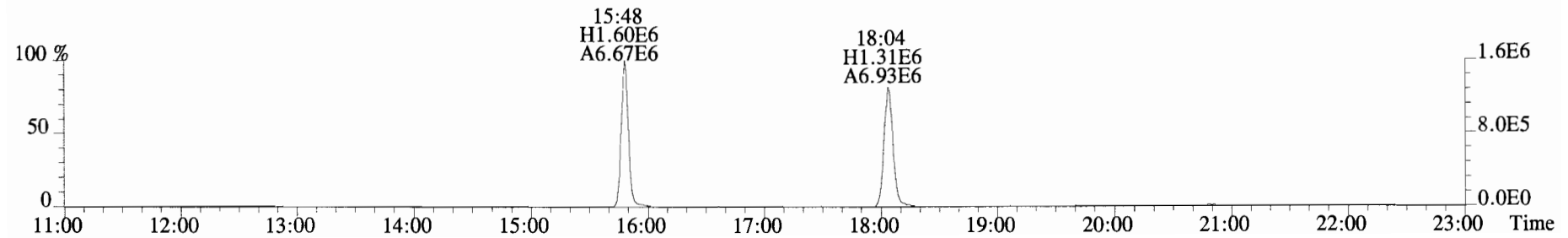
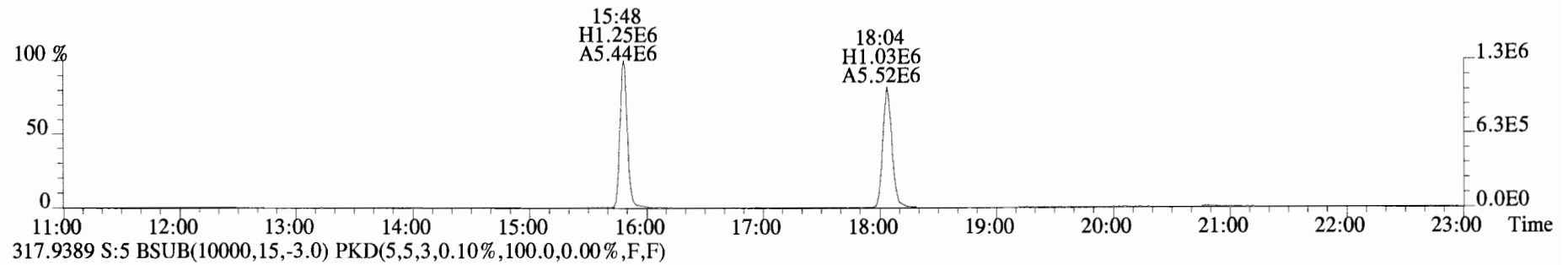
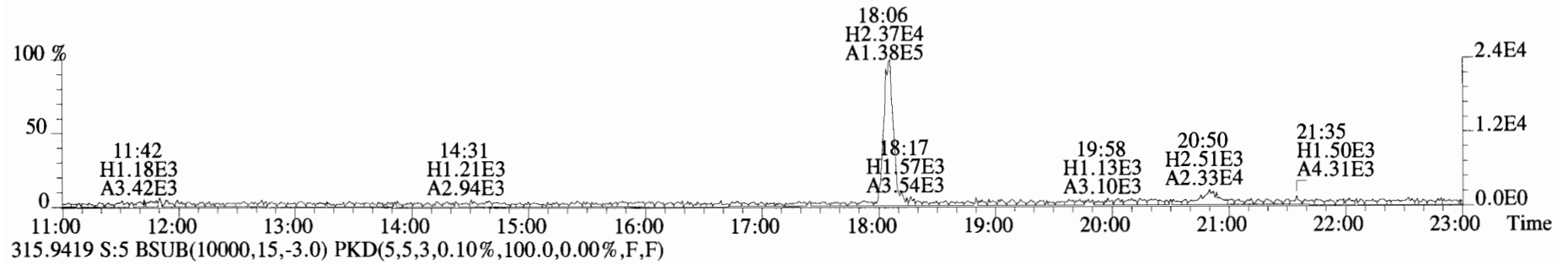
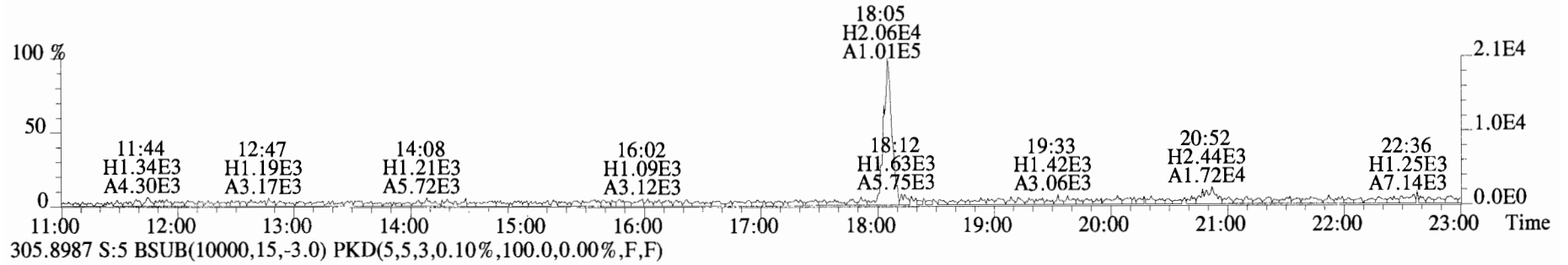
File:190530D1 #1-1683 Acq:30-MAY-2019 12:37:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-2 1613 CS1 19C2202 Exp:TCDF\_DB225  
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



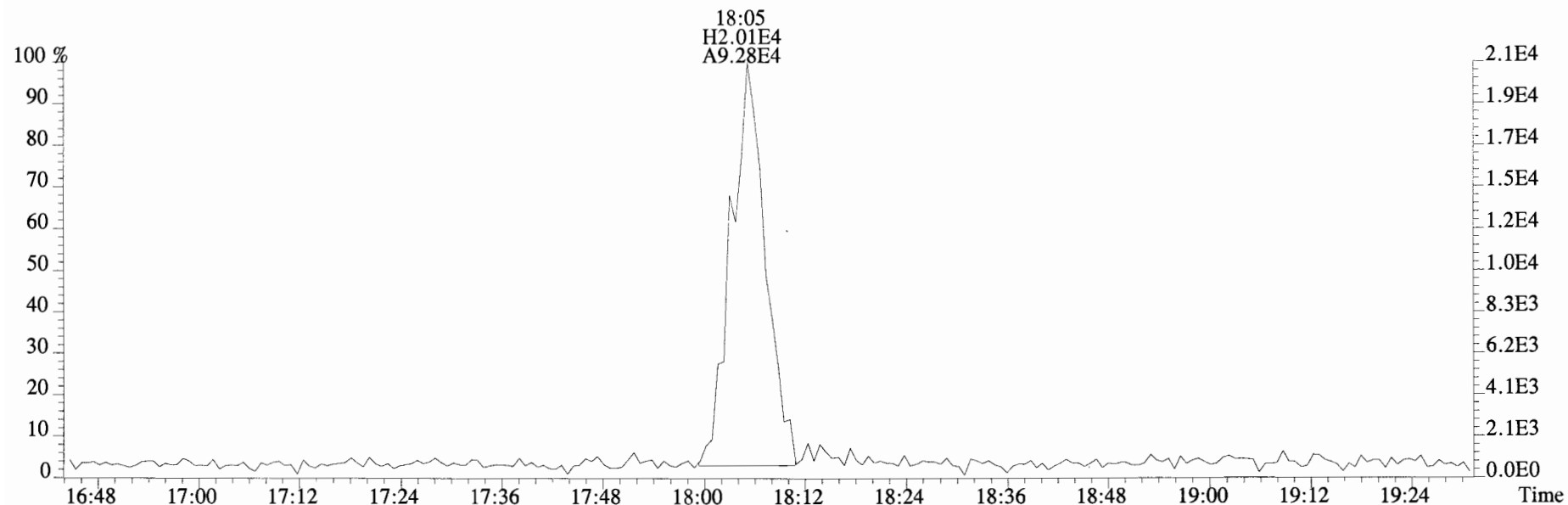
File:190530D1 #1-1683 Acq:30-MAY-2019 12:37:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory\_VG7 Text:ST190530D1-2 1613 CS1 19C2202 Exp:TCDF\_DB225  
331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



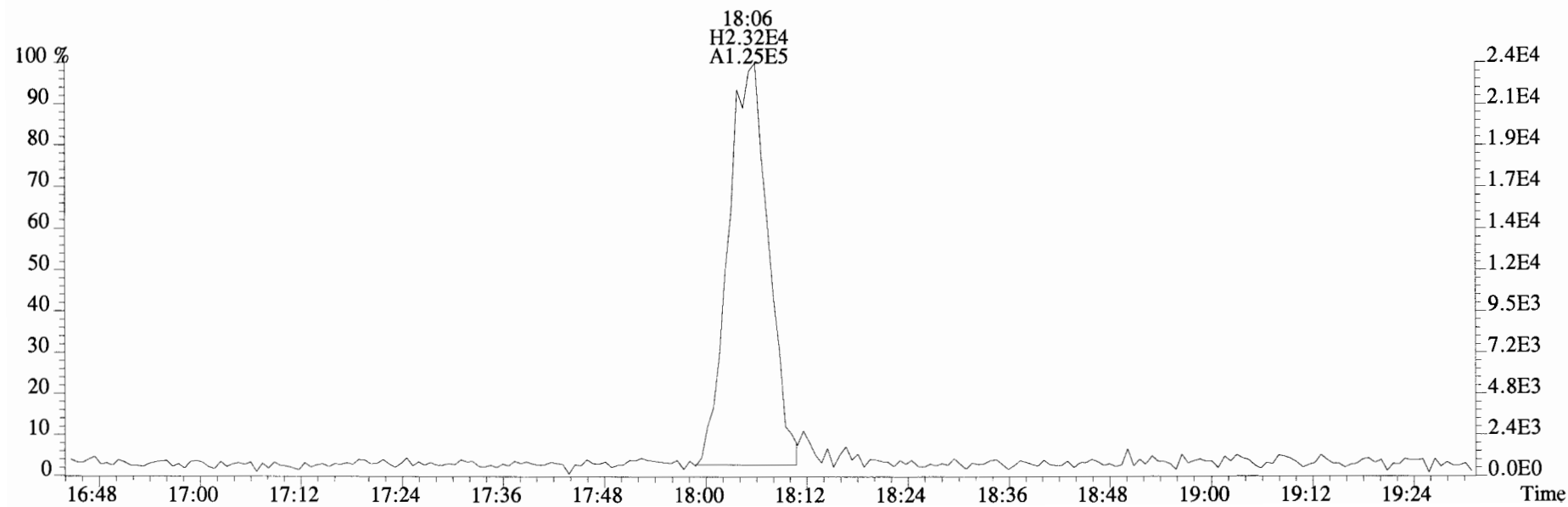
File:190530D1 #1-1683 Acq:30-MAY-2019 13:09:20 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-3 1613 CS2 19C2203 Exp:TCDF\_DB225  
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:190530D1 #1-1683 Acq:30-MAY-2019 13:09:20 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-3 1613 CS2 19C2203 Exp:TCDF\_DB225  
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

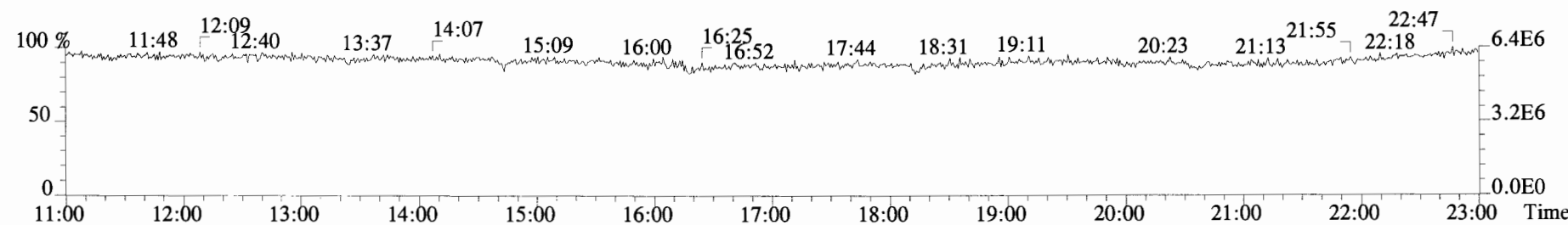
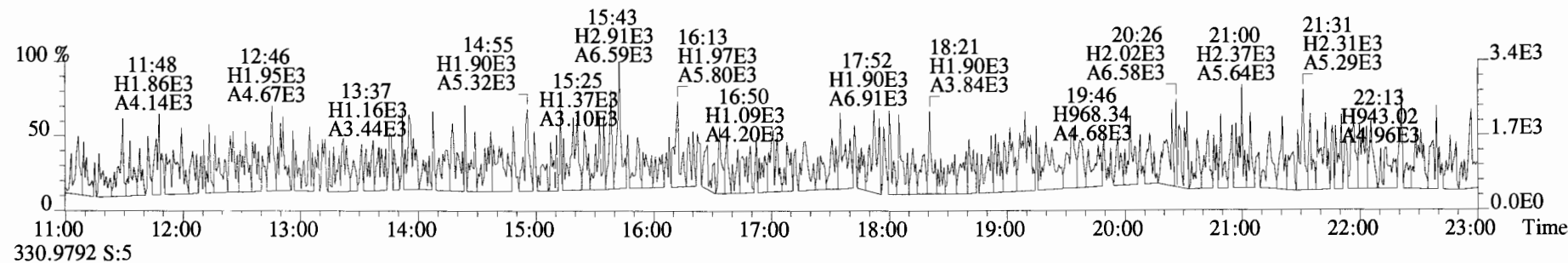
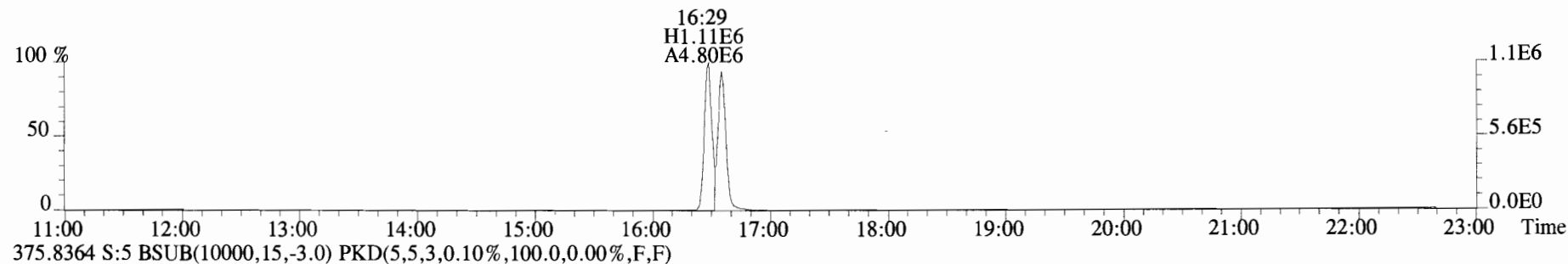
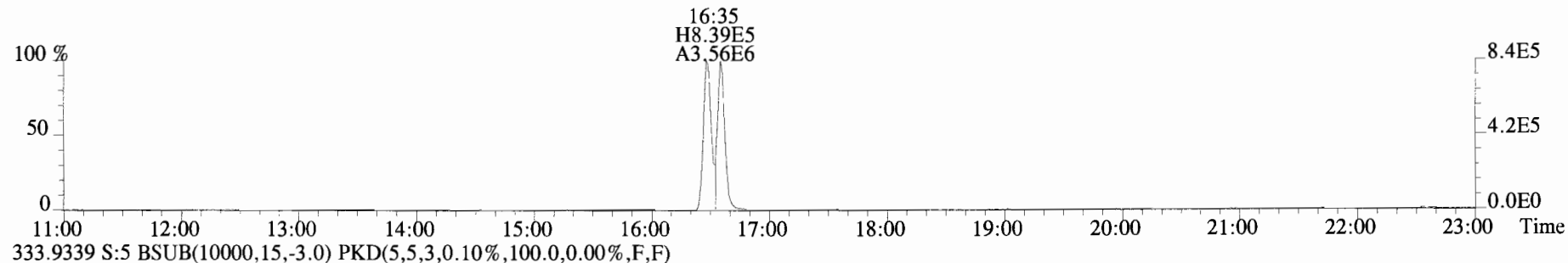


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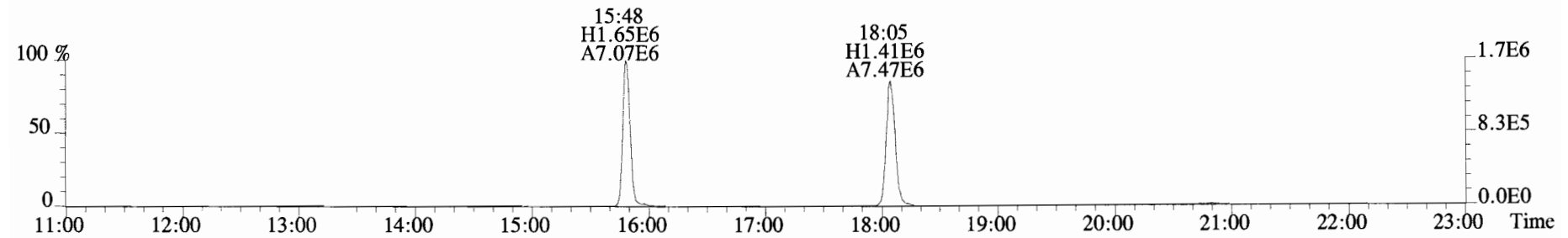
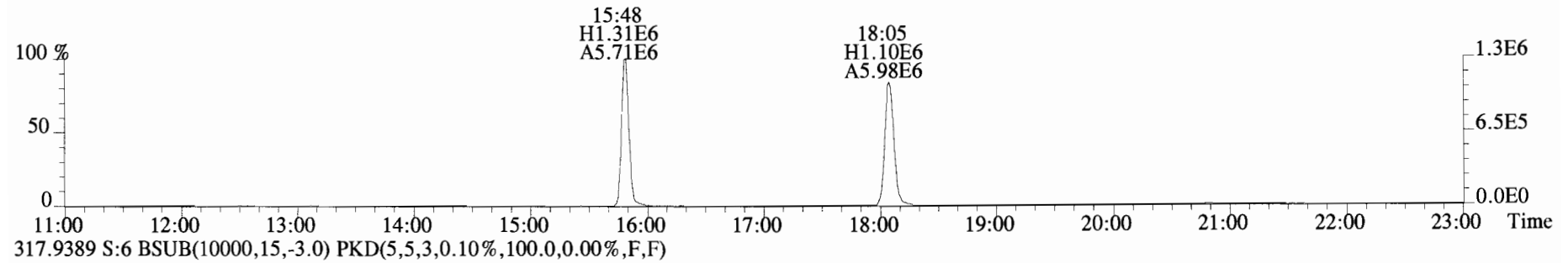
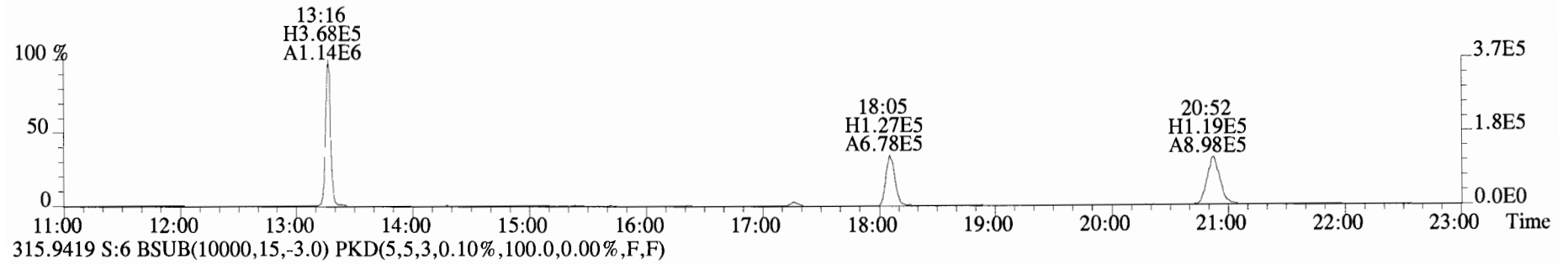
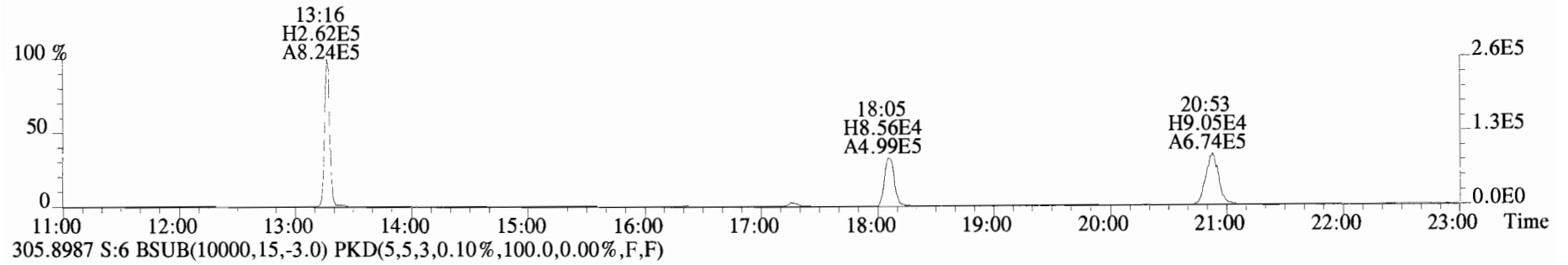




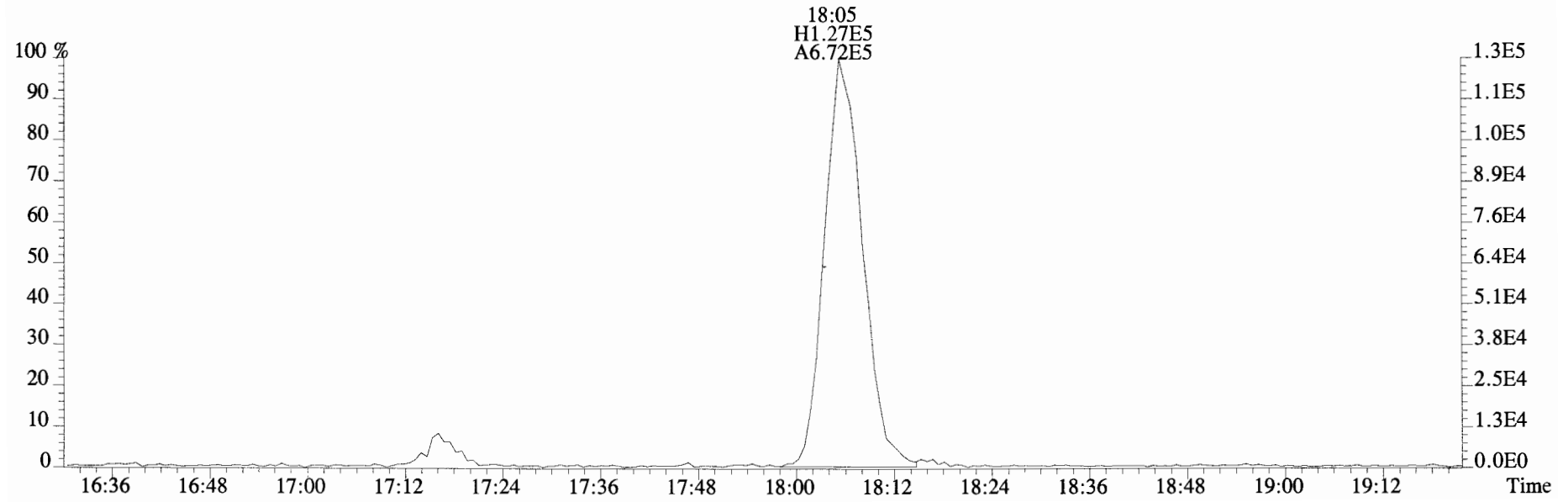
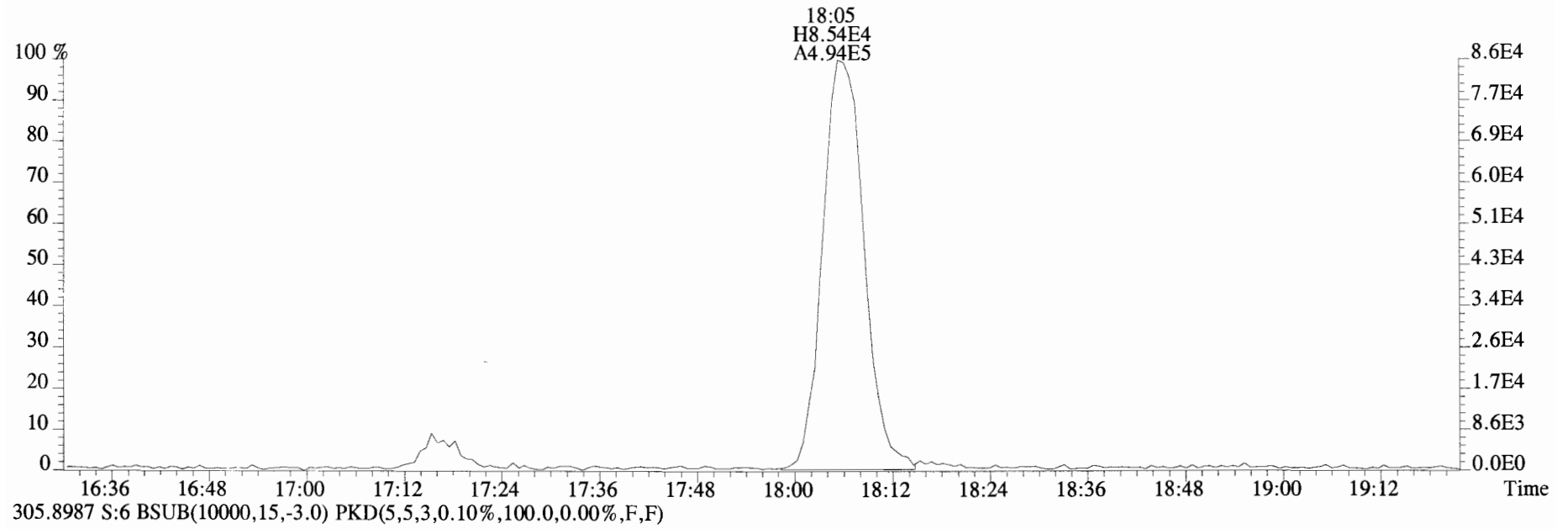
File:190530D1 #1-1683 Acq:30-MAY-2019 13:09:20 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-3 1613 CS2 19C2203 Exp:TCDF\_DB225  
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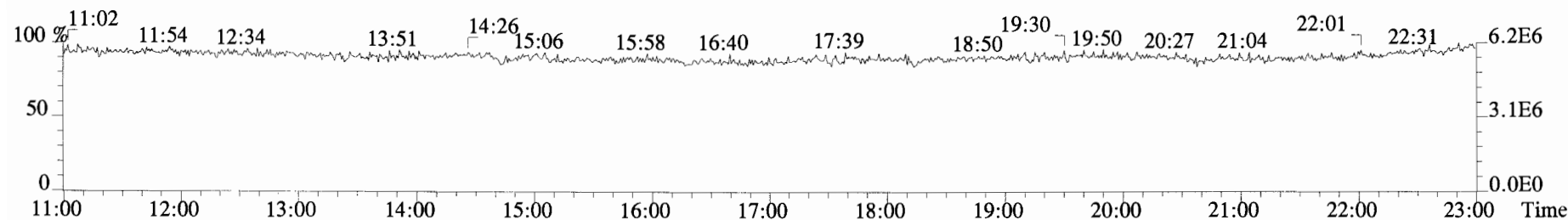
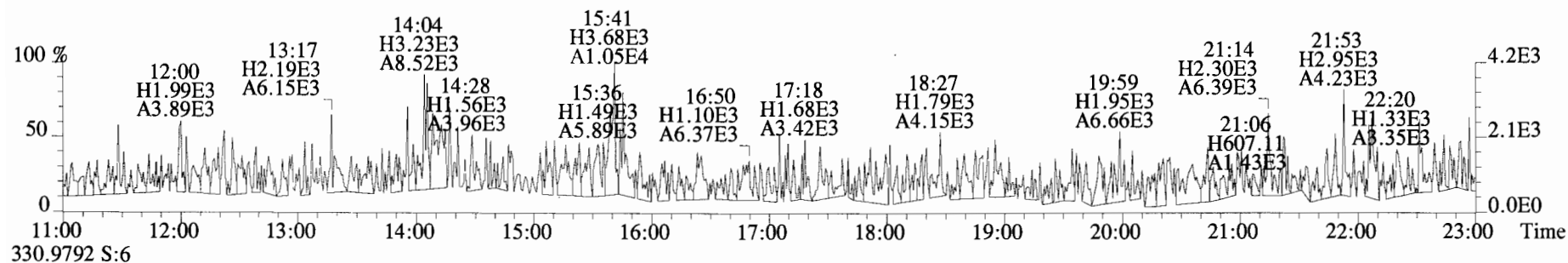
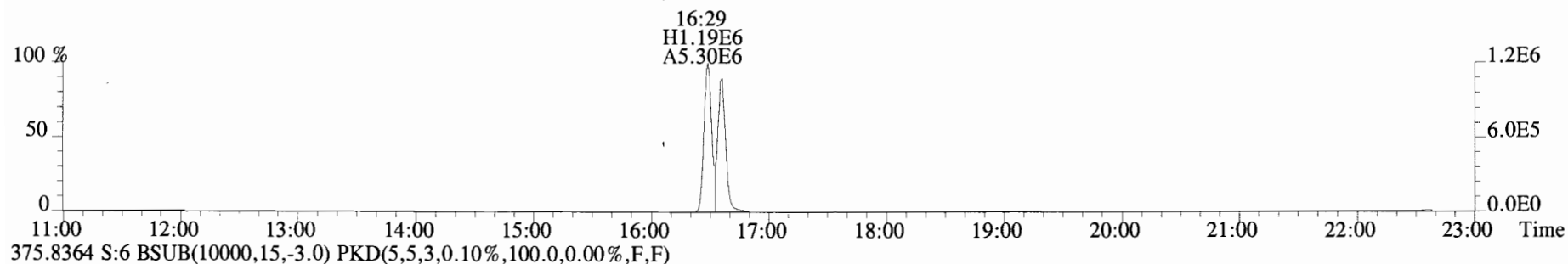
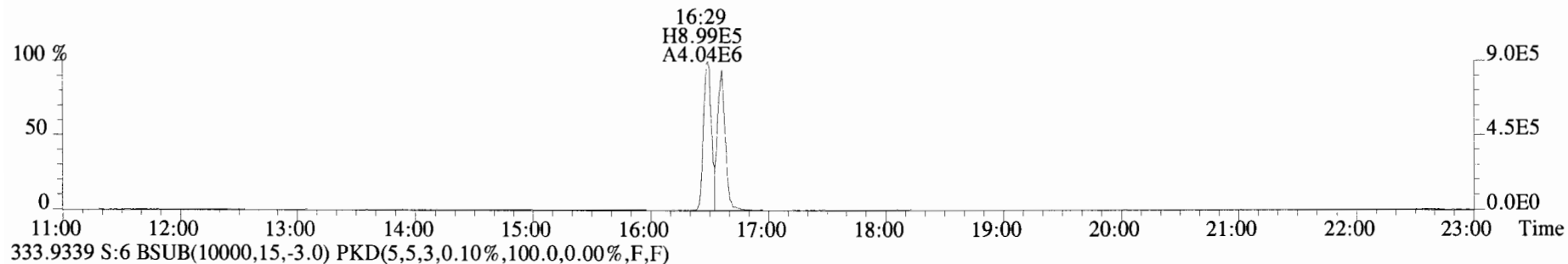
File:190530D1 #1-1682 Acq:30-MAY-2019 13:41:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-4 1613 CS3 19C2204 Exp:TCDF\_DB225  
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



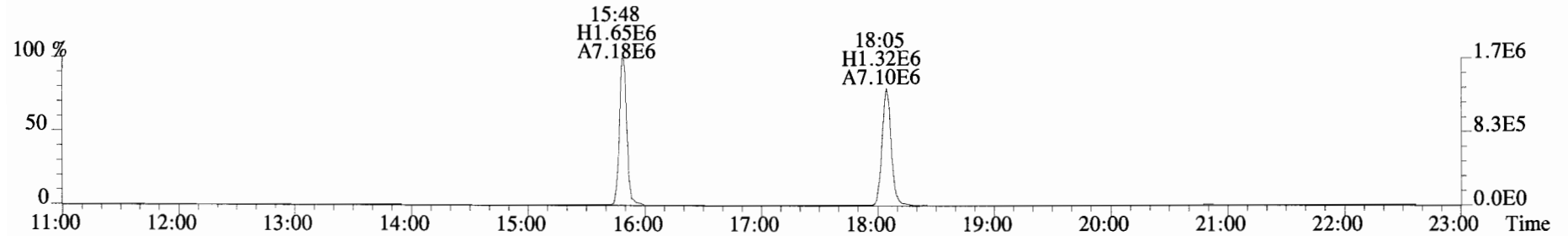
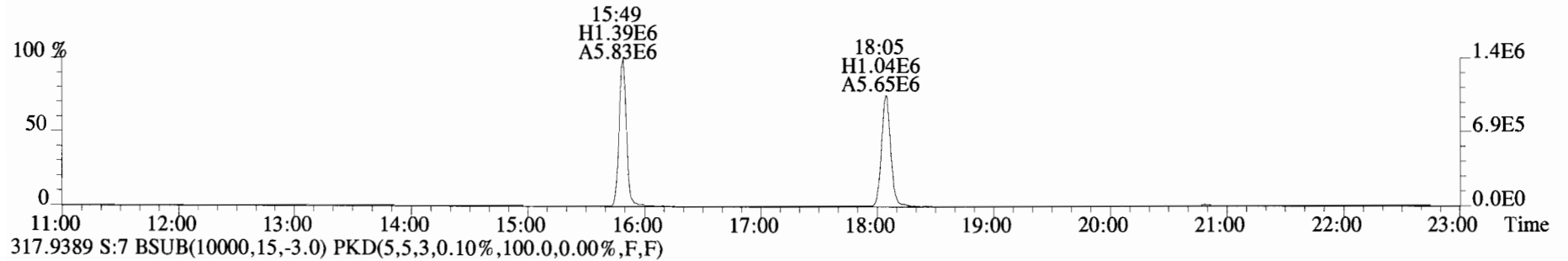
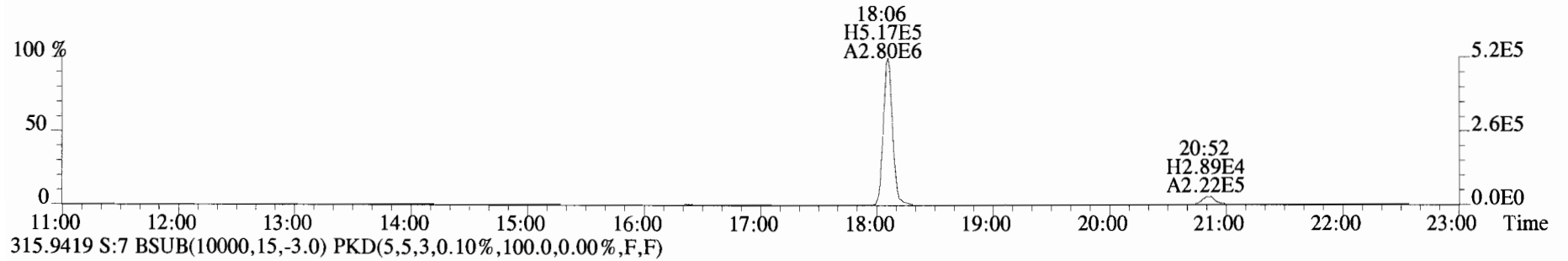
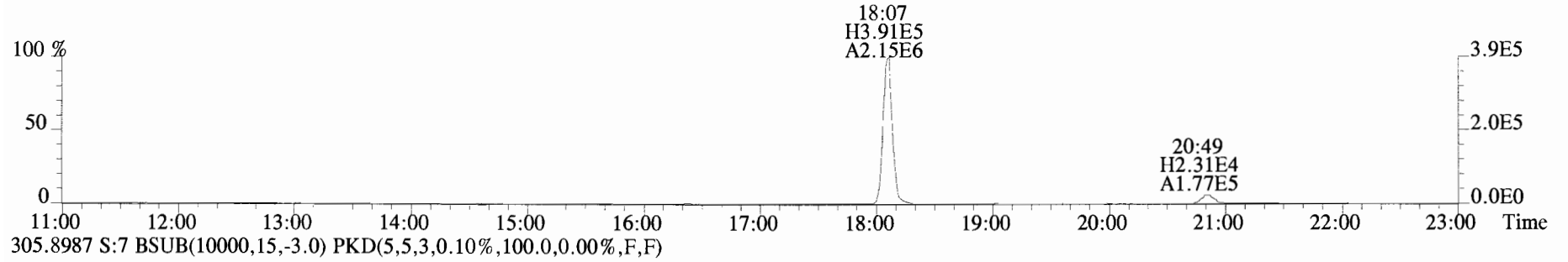
File:190530D1 #1-1682 Acq:30-MAY-2019 13:41:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory\_VG7 Text:ST190530D1-4 1613 CS3 19C2204 Exp:TCDF\_DB225  
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



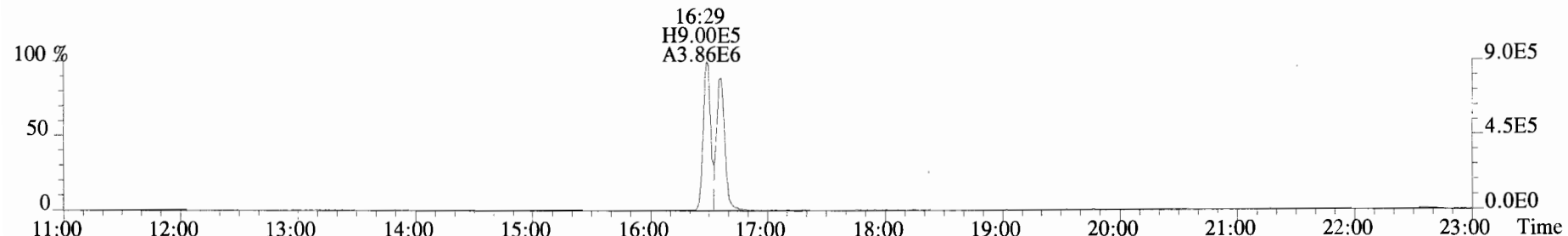
File:190530D1 #1-1682 Acq:30-MAY-2019 13:41:11 GC EI+ Voltage SIR Autospec-UltimaE  
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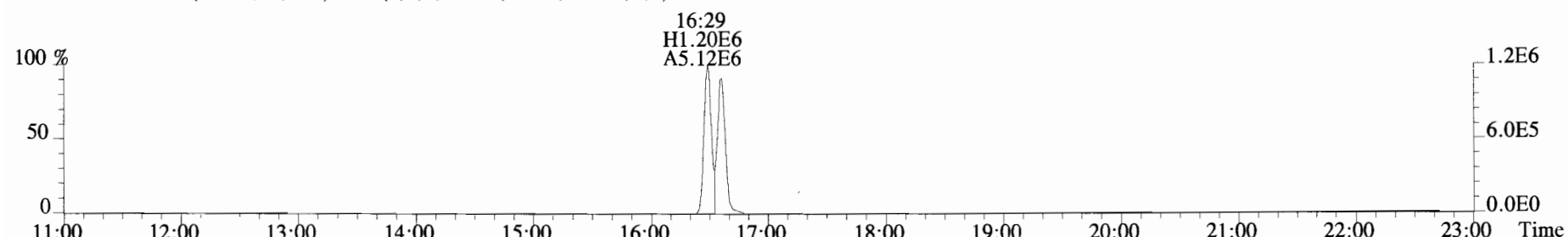
File:190530D1 #1-1682 Acq:30-MAY-2019 14:13:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-5 1613 CS4 19C2205 Exp:TCDF\_DB225  
303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



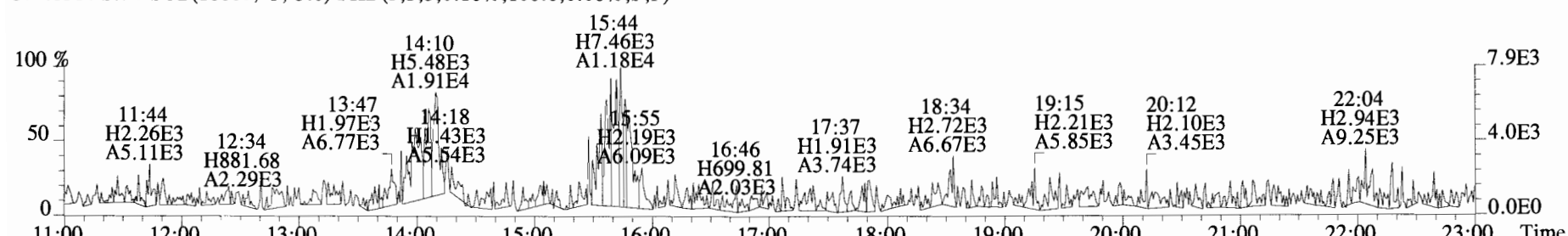
File:190530D1 #1-1682 Acq:30-MAY-2019 14:13:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-5 1613 CS4 19C2205 Exp:TCDF\_DB225  
331.9368 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



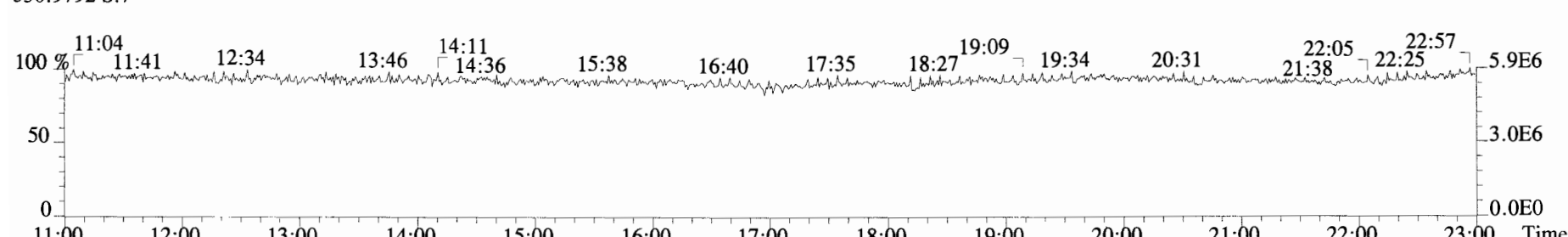
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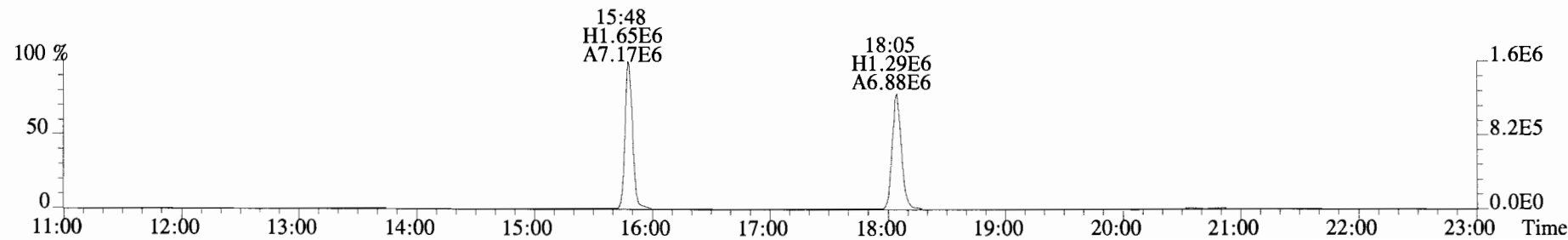
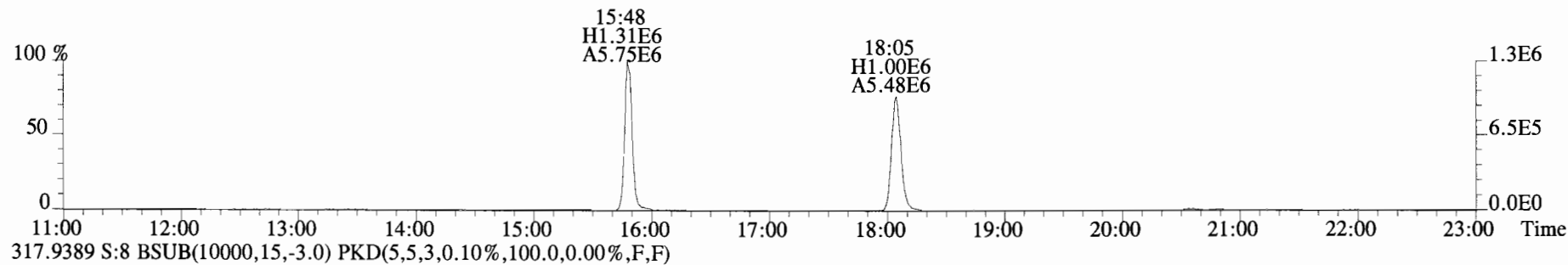
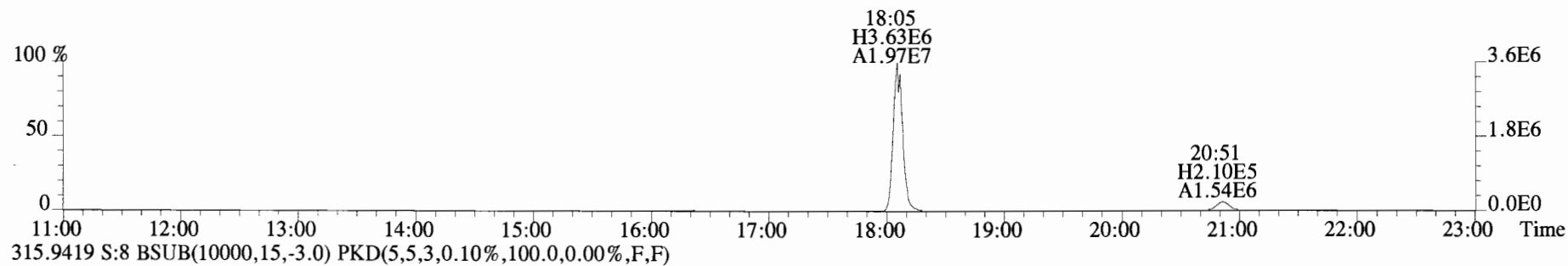
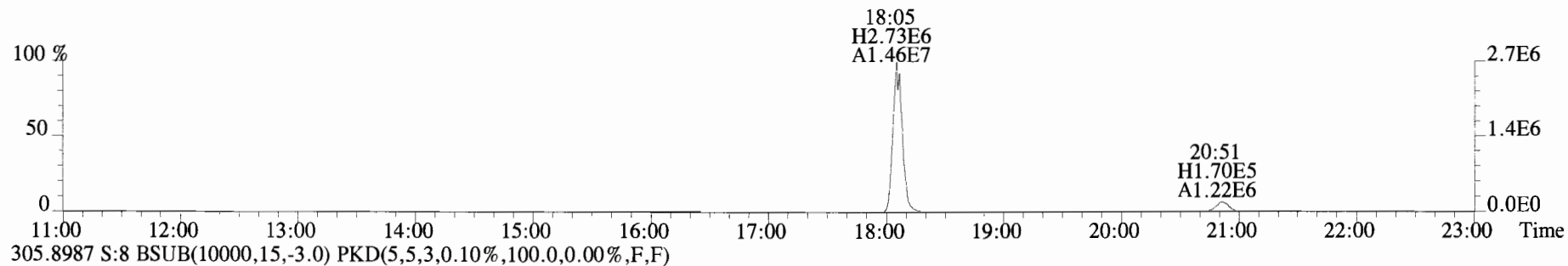
375.8364 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



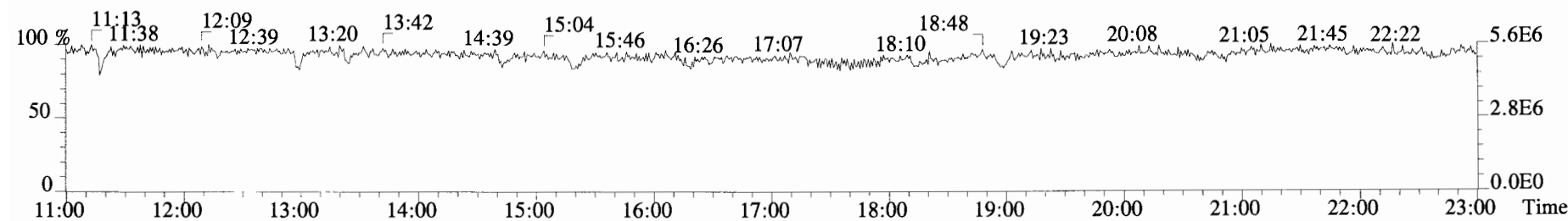
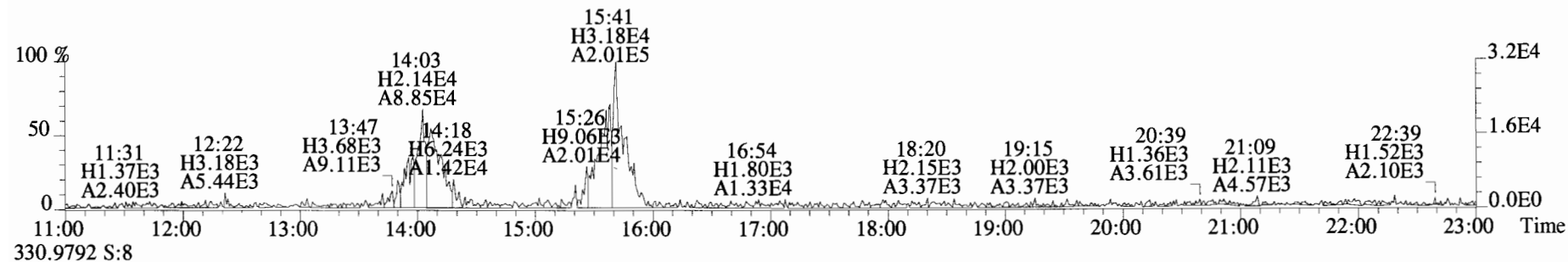
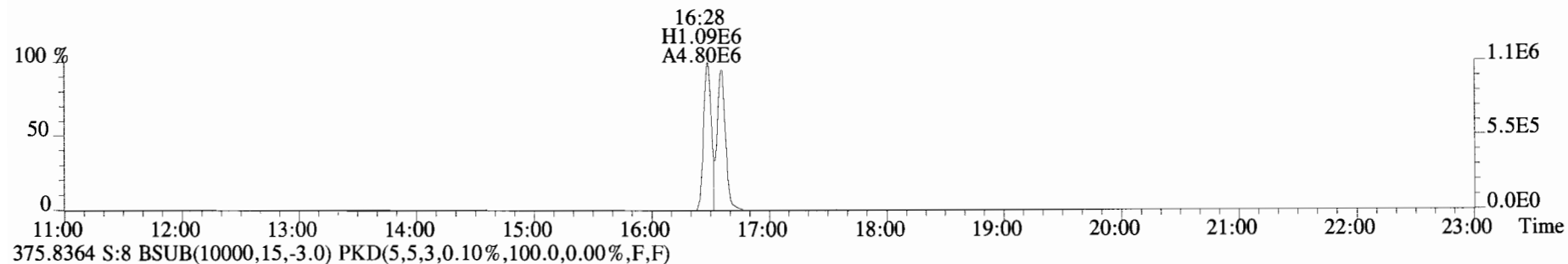
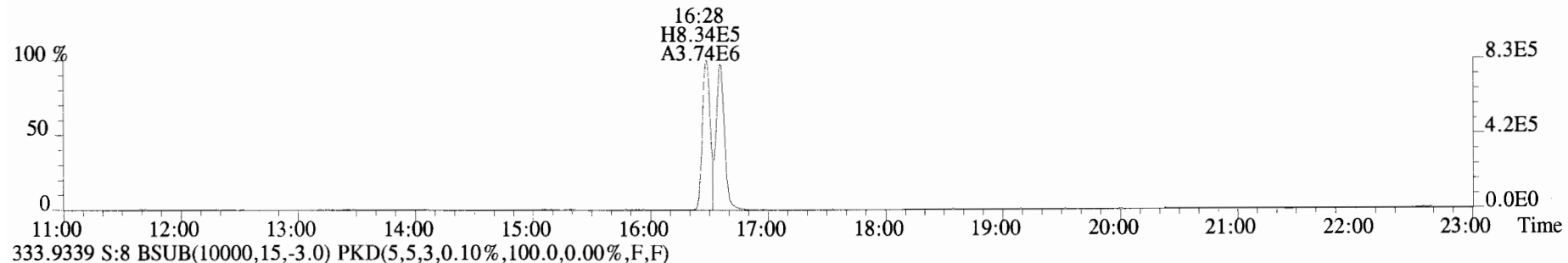
330.9792 S:7



File:190530D1 #1-1682 Acq:30-MAY-2019 14:44:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-6 1613 CS5 19C2206 Exp:TCDF\_DB225  
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



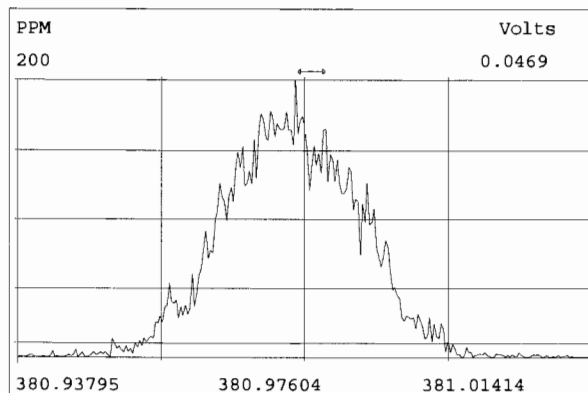
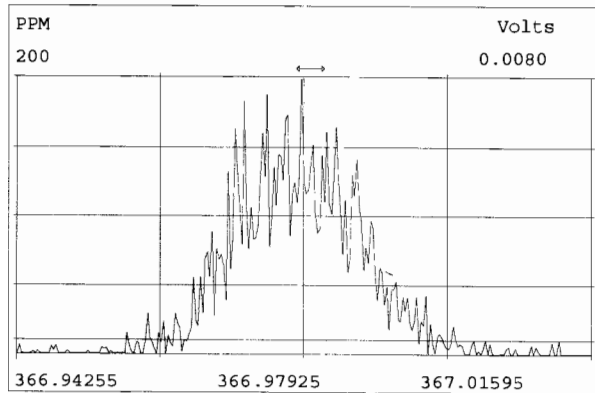
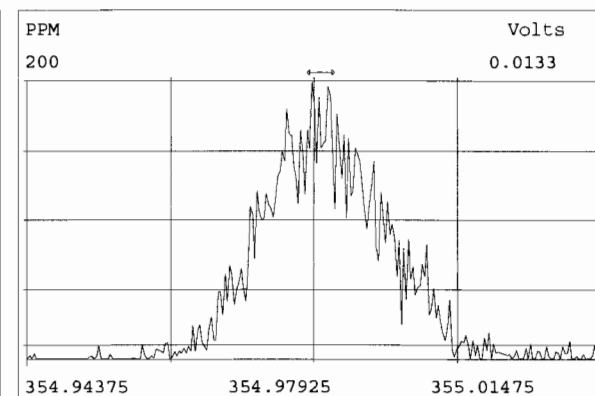
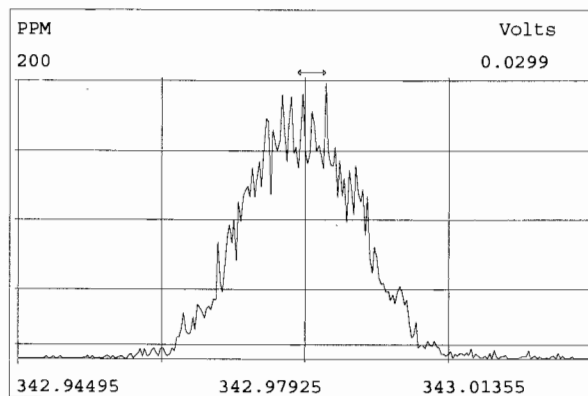
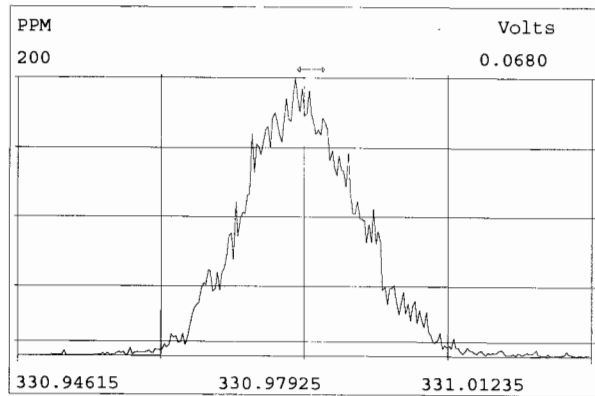
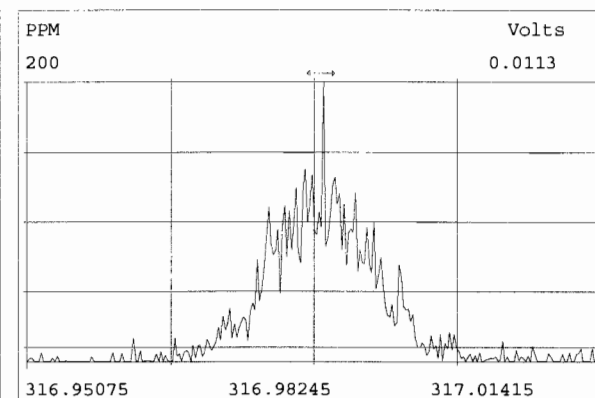
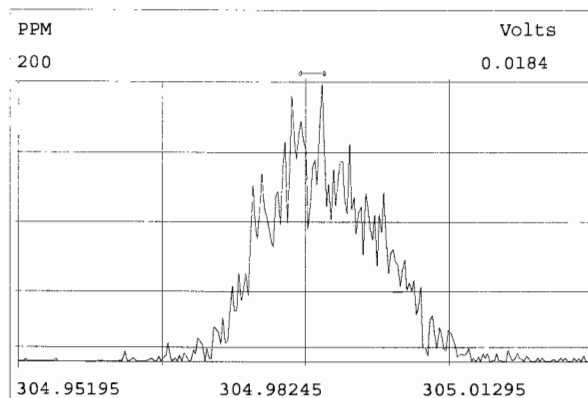
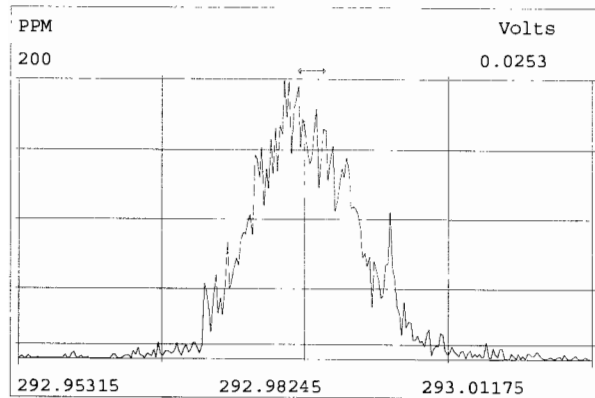
File:190530D1 #1-1682 Acq:30-MAY-2019 14:44:52 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#8 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-6 1613 CS5 19C2206 Exp:TCDF\_DB225  
 331.9368 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)





Peak Locate Examination:30-MAY-2019:19:09 File:RES\_CHECK

Experiment:TCDF\_DB225 Function:1 Reference:PFK



Client ID: 1613 SSS 19C2207  
Lab ID: SS190528D1-1

Filename: 190530D1 S:10 Acq:30-MAY-19 15:48:32  
GC Column ID: DB-225 ICal: 1613TCDFVG7-5-30-19 wt/vol: 1.000

ConCal: ST190530D1-4  
EndCAL: NA

Name	Resp	RA	RT	RRF	Conc	Rec
13C-1,2,3,4-TCDF	1.15e+07	0.82 y	15:48	1.00	100.0	-
13C-2,3,7,8-TCDF	1.18e+07	0.80 y	18:04	1.02	100.0	100.0
2,3,7,8-TCDF	1.08e+06	0.74 y	18:05	0.95	9.628	

Integrations

by  
Analyst: DB

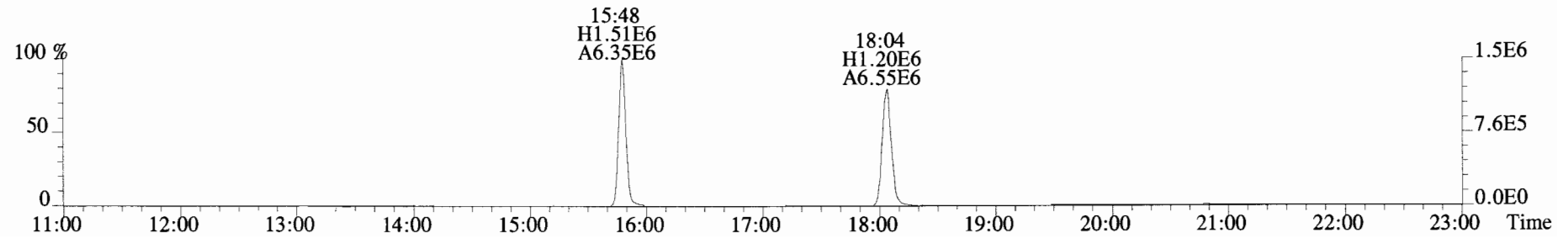
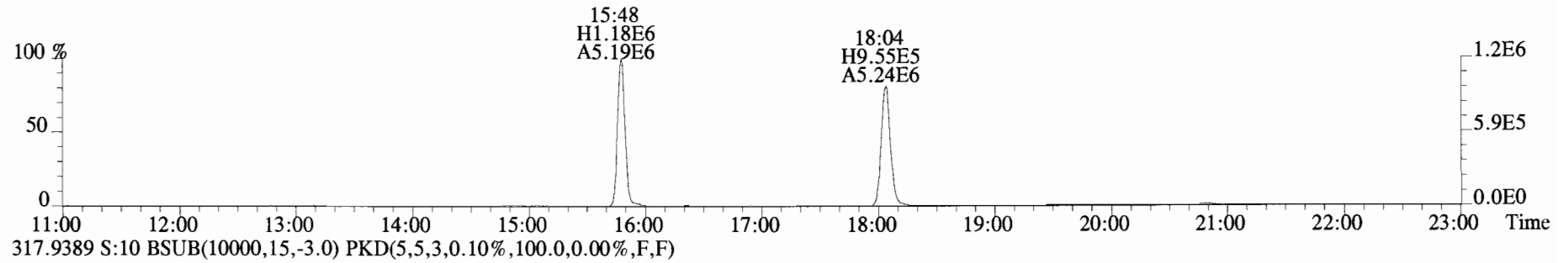
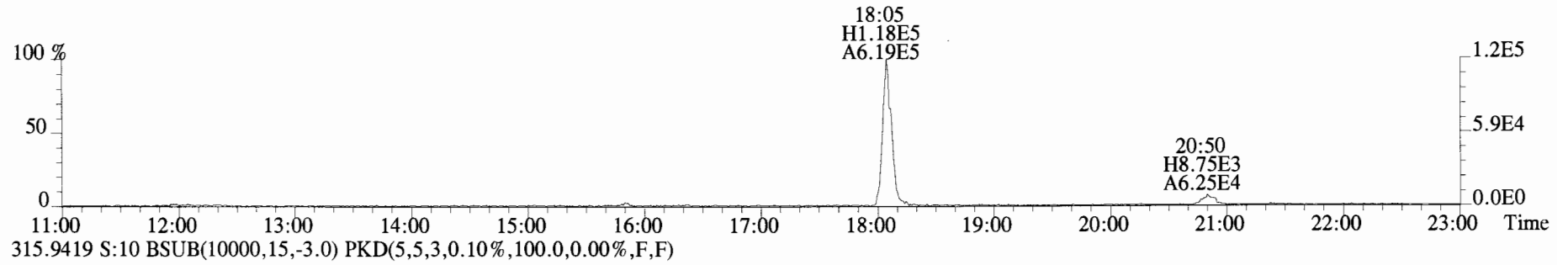
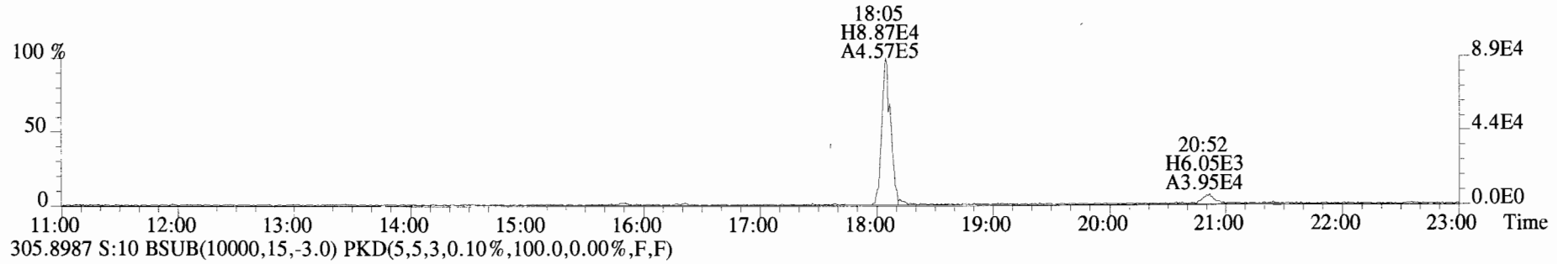
Date: 5/31/19

Reviewed

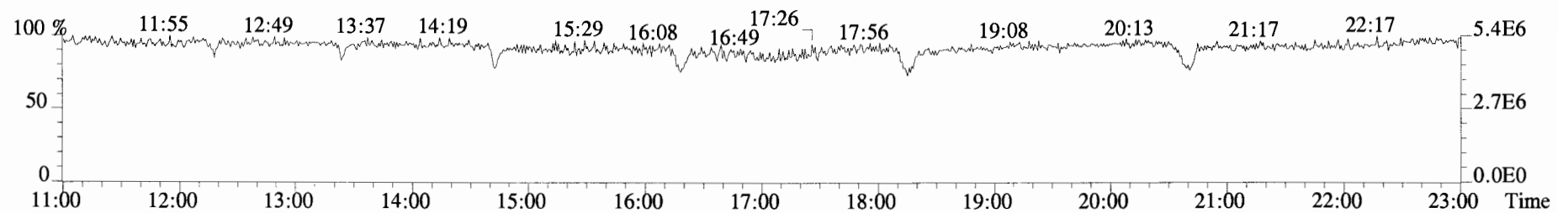
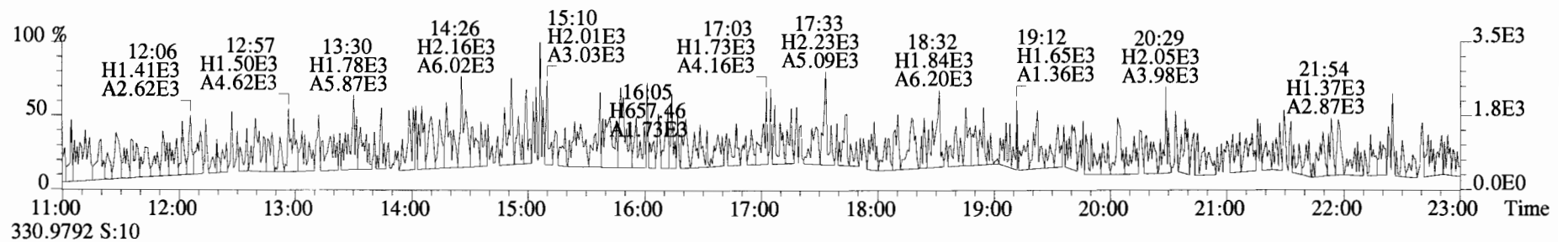
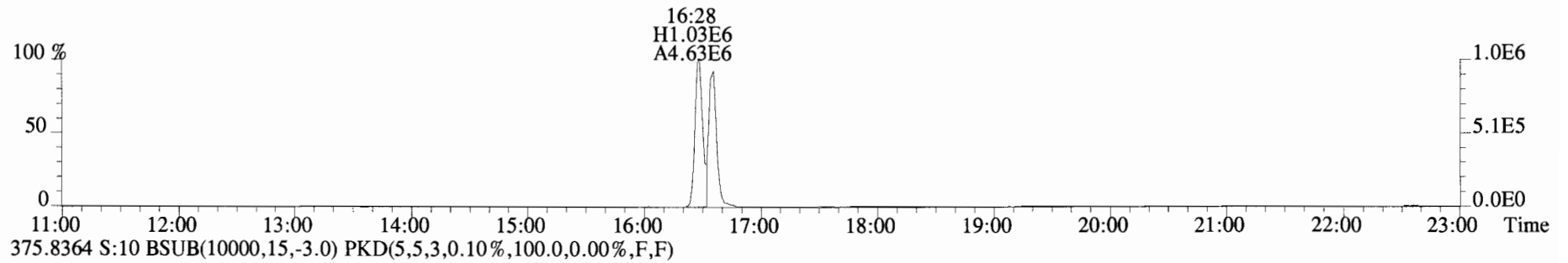
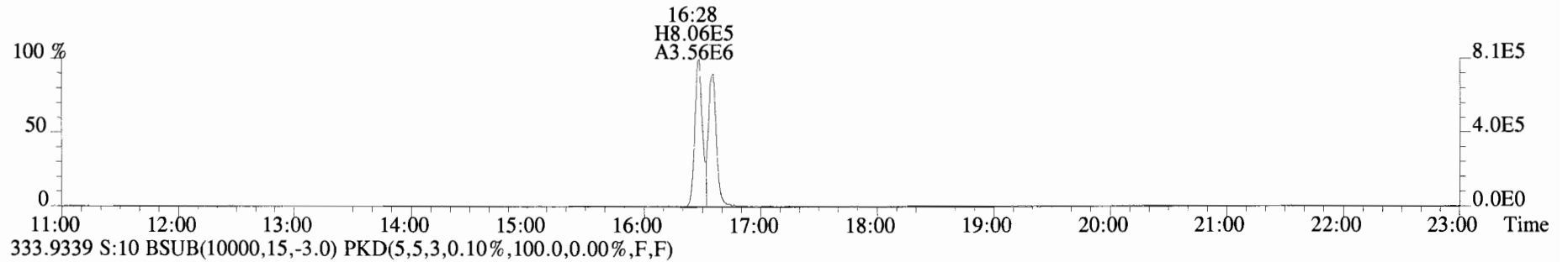
by  
Analyst: CT

Date: 05/31/19

File:190530D1 #1-1682 Acq:30-MAY-2019 15:48:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory\_VG7 Text:SS190528D1-1 1613 SSS 19C2207 Exp:TCDF\_DB225  
303.9016 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:190530D1 #1-1682 Acq:30-MAY-2019 15:48:32 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text: Vista Analytical Laboratory VG7 Text:SS190528D1-1 1613 SSS 19C2207 Exp:TCDF\_DB225  
 331.9368 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld  
 Last Altered: Saturday, June 29, 2019 12:47:58 Pacific Daylight Time  
 Printed: Saturday, June 29, 2019 13:00:34 Pacific Daylight Time

HC 6-29-19

End res check had low PFK, so some peaks  
 had ~~low~~ PFK levels, bleed-through and some did not  
 centroid.

Small amount of PFK added, End res check re-processed

MS 7/2/19

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_6-28-19.mdb 28 Jun 2019 14:45:02  
 Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 12:47:57

Compound name: PCB-1  
 Response Factor: 1.02059  
 RRF SD: 0.0608218, Relative SD: 5.95949  
 Response type: Internal Std ( Ref 169 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
190628K2_1	0.250	2.92	NO	16.02	1.001	4.65e3	2.00e6	0.228	-8.7	0.932	bb
190628K2_2	1.00	3.15	NO	16.03	1.001	1.95e4	1.99e6	0.964	-3.6	0.984	bb
190628K2_3	2.50	3.07	NO	16.04	1.001	4.78e4	1.90e6	2.46	-1.5	1.00	bb
190628K2_4	400	3.13	NO	16.03	1.001	9.67e6	2.27e6	418	4.5	1.07	bb
190628K2_5	1000	3.11	NO	16.03	1.001	2.52e7	2.28e6	1080	8.0	1.10	bb
190628K2_6	50.0	3.17	NO	16.02	1.001	1.02e6	1.96e6	50.7	1.4	1.04	bb

Compound name: PCB-2  
 Response Factor: 1.00905  
 RRF SD: 0.0643807, Relative SD: 6.38035  
 Response type: Internal Std ( Ref 170 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
190628K2_1	0.250	3.17	NO	18.47	0.988	4.61e3	2.02e6	0.226	-9.6	0.912	bb
190628K2_2	1.00	3.18	NO	18.48	0.988	1.94e4	1.99e6	0.966	-3.4	0.975	bb
190628K2_3	2.50	3.10	NO	18.50	0.989	4.79e4	1.92e6	2.47	-1.1	0.998	bb
190628K2_4	400	3.09	NO	18.48	0.988	9.78e6	2.30e6	422	5.4	1.06	bb
190628K2_5	1000	3.15	NO	18.48	0.988	2.56e7	2.34e6	1080	8.3	1.09	bb
190628K2_6	50.0	3.20	NO	18.47	0.988	1.01e6	1.99e6	50.2	0.4	1.01	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

Last Altered: Saturday, June 29, 2019 12:47:58 Pacific Daylight Time  
 Printed: Saturday, June 29, 2019 13:00:34 Pacific Daylight Time

**Compound name: PCB-3**

Response Factor: 1.00697

RRF SD: 0.0623914, Relative SD: 6.19594

Response type: Internal Std ( Ref 170 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	3.03	NO	18.71	1.001	4.64e3	2.02e6	0.228	-8.7	0.919	MM
2	190628K2_2	1.00	3.14	NO	18.73	1.001	1.92e4	1.99e6	0.958	-4.2	0.965	bb
3	190628K2_3	2.50	3.23	NO	18.73	1.001	4.79e4	1.92e6	2.48	-1.0	0.997	bb
4	190628K2_4	400	3.11	NO	18.72	1.001	9.75e6	2.30e6	421	5.3	1.06	bb
5	190628K2_5	1000	3.13	NO	18.72	1.001	2.55e7	2.34e6	1080	8.3	1.09	bb
6	190628K2_6	50.0	3.16	NO	18.72	1.001	1.01e6	1.99e6	50.2	0.3	1.01	bb

**Compound name: PCB-4/10**

Response Factor: 1.27539

RRF SD: 0.0612282, Relative SD: 4.80075

Response type: Internal Std ( Ref 171 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.52	NO	20.16	1.004	7.26e3	1.18e6	0.484	-3.3	1.23	MM
2	190628K2_2	2.00	1.58	NO	20.18	1.005	2.81e4	1.17e6	1.88	-5.9	1.20	MM
3	190628K2_3	5.00	1.67	NO	20.18	1.004	7.00e4	1.13e6	4.88	-2.5	1.24	MM
4	190628K2_4	800	1.57	NO	20.17	1.004	1.42e7	1.35e6	830	3.7	1.32	MM
5	190628K2_5	2000	1.58	NO	20.17	1.004	3.73e7	1.37e6	2140	7.0	1.36	MM
6	190628K2_6	100	1.57	NO	20.16	1.004	1.52e6	1.18e6	101	0.9	1.29	MM

**Compound name: PCB-7/9**

Response Factor: 0.976133

RRF SD: 0.0665552, Relative SD: 6.81825

Response type: Internal Std ( Ref 172 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.54	NO	21.98	1.003	8.19e3	1.85e6	0.453	-9.3	0.885	MM
2	190628K2_2	2.00	1.51	NO	21.98	1.002	3.39e4	1.83e6	1.90	-5.1	0.926	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

Last Altered: Saturday, June 29, 2019 12:47:58 Pacific Daylight Time

Printed: Saturday, June 29, 2019 13:00:34 Pacific Daylight Time

**Compound name: PCB-7/9**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	5.00	1.58	NO	22.00	1.003	8.39e4	1.74e6	4.94	-1.2	0.964	bb
4	190628K2_4	800	1.55	NO	21.98	1.002	1.72e7	2.08e6	844	5.6	1.03	bb
5	190628K2_5	2000	1.56	NO	21.99	1.003	4.55e7	2.13e6	2190	9.3	1.07	bb
6	190628K2_6	100	1.56	NO	21.96	1.001	1.79e6	1.82e6	101	0.8	0.984	bb

**Compound name: PCB-6**

Response Factor: 1.01708

RRF SD: 0.0768011, Relative SD: 7.55113

Response type: Internal Std ( Ref 172 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.50	NO	22.64	1.033	4.20e3	1.85e6	0.223	-10.8	0.908	MM
2	190628K2_2	1.00	1.53	NO	22.65	1.032	1.78e4	1.83e6	0.954	-4.6	0.971	bb
3	190628K2_3	2.50	1.55	NO	22.67	1.033	4.32e4	1.74e6	2.44	-2.5	0.991	bb
4	190628K2_4	400	1.58	NO	22.65	1.033	9.02e6	2.08e6	426	6.4	1.08	bb
5	190628K2_5	1000	1.57	NO	22.65	1.033	2.38e7	2.13e6	1100	9.9	1.12	bb
6	190628K2_6	50.0	1.58	NO	22.64	1.033	9.40e5	1.82e6	50.8	1.6	1.03	bb

**Compound name: PCB-5/8**

Response Factor: 1.0111

RRF SD: 0.0691334, Relative SD: 6.83747

Response type: Internal Std ( Ref 172 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.42	NO	23.06	1.052	8.63e3	1.85e6	0.461	-7.7	0.933	MM
2	190628K2_2	2.00	1.63	NO	23.09	1.052	3.48e4	1.83e6	1.88	-6.0	0.950	bb
3	190628K2_3	5.00	1.56	NO	23.08	1.052	8.50e4	1.74e6	4.83	-3.4	0.976	bb
4	190628K2_4	800	1.55	NO	23.07	1.052	1.78e7	2.08e6	845	5.6	1.07	bb
5	190628K2_5	2000	1.56	NO	23.07	1.052	4.72e7	2.13e6	2190	9.5	1.11	bb
6	190628K2_6	100	1.57	NO	23.06	1.051	1.88e6	1.82e6	102	2.1	1.03	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

Last Altered: Saturday, June 29, 2019 12:47:58 Pacific Daylight Time  
 Printed: Saturday, June 29, 2019 13:00:34 Pacific Daylight Time

**Compound name: PCB-14**

Response Factor: 1.03284

RRF SD: 0.0793435, Relative SD: 7.68206

Response type: Internal Std ( Ref 173 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.52	NO	24.20	0.952	4.28e3	1.80e6	0.231	-7.8	0.953	MM
2	190628K2_2	1.00	1.60	NO	24.22	0.953	1.64e4	1.77e6	0.897	-10.3	0.927	bd
3	190628K2_3	2.50	1.63	NO	24.22	0.952	4.33e4	1.68e6	2.49	-0.2	1.03	bd
4	190628K2_4	400	1.58	NO	24.21	0.952	9.11e6	2.06e6	429	7.2	1.11	bd
5	190628K2_5	1000	1.55	NO	24.21	0.952	2.40e7	2.15e6	1080	8.4	1.12	bd
6	190628K2_6	50.0	1.57	NO	24.20	0.952	9.30e5	1.75e6	51.3	2.7	1.06	bd

**Compound name: PCB-11**

Response Factor: 1.09599

RRF SD: 0.0981502, Relative SD: 8.9554

Response type: Internal Std ( Ref 173 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.73	NO	25.44	1.001	4.20e3	1.80e6	0.213	-14.8	0.934	MM
2	190628K2_2	1.00	1.49	NO	25.46	1.001	1.84e4	1.77e6	0.953	-4.7	1.04	bb
3	190628K2_3	2.50	1.60	NO	25.46	1.001	4.55e4	1.68e6	2.47	-1.1	1.08	db
4	190628K2_4	400	1.57	NO	25.45	1.001	9.69e6	2.06e6	430	7.5	1.18	db
5	190628K2_5	1000	1.57	NO	25.45	1.001	2.57e7	2.15e6	1090	9.3	1.20	db
6	190628K2_6	50.0	1.60	NO	25.44	1.001	9.97e5	1.75e6	51.9	3.8	1.14	db

**Compound name: PCB-12/13**

Response Factor: 1.03706

RRF SD: 0.0681119, Relative SD: 6.56777

Response type: Internal Std ( Ref 173 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.41	NO	25.82	1.016	8.77e3	1.80e6	0.471	-5.9	0.976	MM
2	190628K2_2	2.00	1.65	NO	25.89	1.018	3.41e4	1.77e6	1.86	-7.0	0.964	MM



Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

Last Altered: Saturday, June 29, 2019 12:47:58 Pacific Daylight Time

Printed: Saturday, June 29, 2019 13:00:34 Pacific Daylight Time

**Compound name: PCB-12/13**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	5.00	1.54	NO	25.89	1.018	8.38e4	1.68e6	4.81	-3.8	0.998	MM
4	190628K2_4	800	1.55	NO	25.82	1.015	1.81e7	2.06e6	850	6.2	1.10	MM
5	190628K2_5	2000	1.55	NO	25.82	1.015	4.84e7	2.15e6	2170	8.7	1.13	MM
6	190628K2_6	100	1.57	NO	25.82	1.016	1.85e6	1.75e6	102	1.8	1.06	MM

**Compound name: PCB-15**

Response Factor: 1.0284

RRF SD: 0.103835, Relative SD: 10.0967

Response type: Internal Std ( Ref 173 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.35	NO	26.17	1.030	4.02e3	1.80e6	0.217	-13.1	0.894	MM
2	190628K2_2	1.00	1.62	NO	26.18	1.030	1.64e4	1.77e6	0.903	-9.7	0.929	MM
3	190628K2_3	2.50	1.64	NO	26.18	1.029	4.24e4	1.68e6	2.46	-1.7	1.01	MM
4	190628K2_4	400	1.57	NO	26.17	1.029	9.30e6	2.06e6	440	9.9	1.13	MM
5	190628K2_5	1000	1.56	NO	26.18	1.030	2.46e7	2.15e6	1120	11.6	1.15	MM
6	190628K2_6	50.0	1.57	NO	26.17	1.030	9.28e5	1.75e6	51.5	3.0	1.06	MM

**Compound name: PCB-19**

Response Factor: 0.934219

RRF SD: 0.0568098, Relative SD: 6.08099

Response type: Internal Std ( Ref 174 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.03	NO	24.39	1.001	2.54e3	1.20e6	0.226	-9.5	0.845	bb
2	190628K2_2	1.00	0.96	NO	24.40	1.001	1.07e4	1.17e6	0.977	-2.3	0.913	bb
3	190628K2_3	2.50	1.02	NO	24.40	1.001	2.57e4	1.12e6	2.45	-2.1	0.915	bb
4	190628K2_4	400	0.97	NO	24.40	1.001	5.18e6	1.34e6	415	3.7	0.968	bb
5	190628K2_5	1000	0.96	NO	24.40	1.001	1.36e7	1.34e6	1080	8.2	1.01	bb
6	190628K2_6	50.0	0.99	NO	24.39	1.001	5.50e5	1.15e6	51.0	2.0	0.953	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-30**

Response Factor: 1.48089

RRF SD: 0.0920808, Relative SD: 6.21795

Response type: Internal Std ( Ref 174 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
190628K2_1	0.250	1.01	NO	25.32	1.039	4.16e3	1.20e6	0.234	-6.6	1.38	MM
190628K2_2	1.00	0.96	NO	25.33	1.039	1.65e4	1.17e6	0.952	-4.8	1.41	bb
190628K2_3	2.50	0.97	NO	25.33	1.039	4.02e4	1.12e6	2.42	-3.3	1.43	bb
190628K2_4	400	0.96	NO	25.32	1.038	8.23e6	1.34e6	415	3.8	1.54	bb
190628K2_5	1000	0.97	NO	25.32	1.038	2.19e7	1.34e6	1100	10.0	1.63	bb
190628K2_6	50.0	0.97	NO	25.32	1.039	8.62e5	1.15e6	50.4	0.8	1.49	bb

**Compound name: PCB-18**

Response Factor: 0.69301

RRF SD: 0.0348573, Relative SD: 5.02985

Response type: Internal Std ( Ref 175 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
190628K2_1	0.250	0.98	NO	26.09	0.952	2.67e3	1.69e6	0.228	-8.8	0.632	bb
190628K2_2	1.00	0.95	NO	26.10	0.953	1.12e4	1.64e6	0.988	-1.2	0.684	bb
190628K2_3	2.50	0.99	NO	26.10	0.953	2.70e4	1.57e6	2.49	-0.5	0.689	bd
190628K2_4	400	0.96	NO	26.09	0.952	5.58e6	1.94e6	416	4.1	0.721	bd
190628K2_5	1000	0.96	NO	26.10	0.953	1.47e7	2.02e6	1050	5.5	0.731	bd
190628K2_6	50.0	0.98	NO	26.09	0.952	5.77e5	1.65e6	50.5	1.0	0.700	bd

**Compound name: PCB-17**

Response Factor: 0.666881

RRF SD: 0.0267585, Relative SD: 4.01249

Response type: Internal Std ( Ref 175 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
190628K2_1	0.250	1.09	NO	26.27	0.959	2.93e3	1.69e6	0.261	4.3	0.695	bb
190628K2_2	1.00	1.01	NO	26.28	0.959	1.03e4	1.64e6	0.942	-5.8	0.628	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-17**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	2.50	0.96	NO	26.28	0.959	2.52e4	1.57e6	2.41	-3.5	0.643	db
4	190628K2_4	400	0.97	NO	26.27	0.959	5.27e6	1.94e6	409	2.1	0.681	db
5	190628K2_5	1000	0.96	NO	26.27	0.959	1.39e7	2.02e6	1030	3.4	0.689	db
6	190628K2_6	50.0	0.97	NO	26.26	0.959	5.47e5	1.65e6	49.8	-0.5	0.664	db

**Compound name: PCB-24/27**

Response Factor: 0.914605

RRF SD: 0.0431702, Relative SD: 4.7201

Response type: Internal Std ( Ref 175 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	0.90	NO	26.87	0.981	7.16e3	1.69e6	0.464	-7.1	0.850	MM
2	190628K2_2	2.00	0.96	NO	26.87	0.981	2.95e4	1.64e6	1.97	-1.5	0.901	bb
3	190628K2_3	5.00	0.95	NO	26.88	0.981	6.97e4	1.57e6	4.86	-2.9	0.888	bb
4	190628K2_4	800	0.98	NO	26.87	0.981	1.48e7	1.94e6	836	4.5	0.956	bb
5	190628K2_5	2000	0.97	NO	26.87	0.981	3.88e7	2.02e6	2100	5.2	0.962	bb
6	190628K2_6	100	0.97	NO	26.86	0.981	1.53e6	1.65e6	102	1.7	0.930	bb

**Compound name: PCB-16/32**

Response Factor: 0.792346

RRF SD: 0.0296842, Relative SD: 3.74637

Response type: Internal Std ( Ref 175 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	0.97	NO	27.41	1.001	6.44e3	1.69e6	0.482	-3.7	0.763	bb
2	190628K2_2	2.00	0.94	NO	27.42	1.001	2.49e4	1.64e6	1.92	-4.1	0.760	bb
3	190628K2_3	5.00	0.96	NO	27.42	1.001	6.11e4	1.57e6	4.91	-1.8	0.778	bb
4	190628K2_4	800	0.96	NO	27.41	1.001	1.28e7	1.94e6	832	4.0	0.824	bb
5	190628K2_5	2000	0.96	NO	27.41	1.000	3.34e7	2.02e6	2090	4.4	0.827	bb
6	190628K2_6	100	0.96	NO	27.41	1.001	1.32e6	1.65e6	101	1.2	0.802	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-34**

Response Factor: 0.987386

RRF SD: 0.031487, Relative SD: 3.18892

Response type: Internal Std ( Ref 176 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.12	NO	28.24	0.960	3.83e3	1.52e6	0.255	1.8	1.01	bd
2	190628K2_2	1.00	0.97	NO	28.24	0.960	1.52e4	1.57e6	0.981	-1.9	0.968	bd
3	190628K2_3	2.50	1.04	NO	28.24	0.960	3.75e4	1.54e6	2.47	-1.2	0.975	bd
4	190628K2_4	400	1.02	NO	28.24	0.960	7.26e6	1.79e6	411	2.6	1.01	bd
5	190628K2_5	1000	1.03	NO	28.24	0.960	1.90e7	1.86e6	1040	3.5	1.02	bd
6	190628K2_6	50.0	1.04	NO	28.22	0.960	7.84e5	1.67e6	47.6	-4.8	0.940	bd

**Compound name: PCB-23**

Response Factor: 0.97397

RRF SD: 0.103081, Relative SD: 10.5836

Response type: Internal Std ( Ref 176 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.00	NO	28.31	0.963	3.62e3	1.52e6	0.244	-2.3	0.951	db
2	190628K2_2	1.00	1.10	NO	28.33	0.963	1.38e4	1.57e6	0.902	-9.8	0.878	db
3	190628K2_3	2.50	1.04	NO	28.33	0.963	3.41e4	1.54e6	2.28	-8.9	0.887	db
4	190628K2_4	400	1.05	NO	28.33	0.963	7.69e6	1.79e6	441	10.3	1.07	db
5	190628K2_5	1000	1.05	NO	28.33	0.963	2.10e7	1.86e6	1160	15.7	1.13	db
6	190628K2_6	50.0	1.05	NO	28.33	0.963	7.73e5	1.67e6	47.5	-4.9	0.926	db

**Compound name: PCB-29**

Response Factor: 0.953489

RRF SD: 0.0694569, Relative SD: 7.2845

Response type: Internal Std ( Ref 176 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.17	NO	28.57	0.971	3.72e3	1.52e6	0.256	2.5	0.977	bb
2	190628K2_2	1.00	1.02	NO	28.59	0.972	1.39e4	1.57e6	0.926	-7.4	0.882	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-29**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	2.50	1.06	NO	28.59	0.972	3.44e4	1.54e6	2.35	-6.1	0.895	bd
4	190628K2_4	400	1.04	NO	28.59	0.972	7.32e6	1.79e6	429	7.3	1.02	bd
5	190628K2_5	1000	1.03	NO	28.59	0.971	1.94e7	1.86e6	1090	9.2	1.04	bd
6	190628K2_6	50.0	1.04	NO	28.57	0.971	7.53e5	1.67e6	47.3	-5.4	0.902	bd

**Compound name: PCB-26**

Response Factor: 1.00101

RRF SD: 0.0777576, Relative SD: 7.76791

Response type: Internal Std ( Ref 176 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.17	NO	28.79	0.979	3.56e3	1.52e6	0.234	-6.5	0.936	bd
2	190628K2_2	1.00	1.00	NO	28.81	0.979	1.53e4	1.57e6	0.971	-2.9	0.972	bd
3	190628K2_3	2.50	1.05	NO	28.81	0.979	3.58e4	1.54e6	2.33	-6.9	0.932	dd
4	190628K2_4	400	1.04	NO	28.79	0.979	7.76e6	1.79e6	433	8.3	1.08	dd
5	190628K2_5	1000	1.04	NO	28.79	0.979	2.07e7	1.86e6	1110	11.2	1.11	dd
6	190628K2_6	50.0	1.03	NO	28.79	0.979	8.09e5	1.67e6	48.4	-3.1	0.970	dd

**Compound name: PCB-25**

Response Factor: 0.977946

RRF SD: 0.0922085, Relative SD: 9.4288

Response type: Internal Std ( Ref 176 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.95	NO	28.96	0.985	3.30e3	1.52e6	0.221	-11.5	0.865	db
2	190628K2_2	1.00	1.02	NO	28.98	0.985	1.46e4	1.57e6	0.949	-5.1	0.928	MM
3	190628K2_3	2.50	1.04	NO	28.98	0.985	3.65e4	1.54e6	2.43	-2.8	0.951	db
4	190628K2_4	400	1.04	NO	28.96	0.984	7.69e6	1.79e6	439	9.8	1.07	db
5	190628K2_5	1000	1.04	NO	28.96	0.984	2.06e7	1.86e6	1130	13.1	1.11	db
6	190628K2_6	50.0	1.05	NO	28.96	0.985	7.89e5	1.67e6	48.3	-3.4	0.945	db

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-31**

Response Factor: 1.12319

RRF SD: 0.0951643, Relative SD: 8.47271

Response type: Internal Std ( Ref 176 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.16	NO	29.33	0.997	4.08e3	1.52e6	0.239	-4.6	1.07	MM
2	190628K2_2	1.00	1.05	NO	29.33	0.997	1.62e4	1.57e6	0.919	-8.1	1.03	bd
3	190628K2_3	2.50	1.01	NO	29.35	0.997	4.02e4	1.54e6	2.33	-6.7	1.05	bd
4	190628K2_4	400	1.03	NO	29.33	0.997	8.82e6	1.79e6	439	9.7	1.23	bd
5	190628K2_5	1000	1.03	NO	29.33	0.997	2.33e7	1.86e6	1110	11.4	1.25	bd
6	190628K2_6	50.0	1.03	NO	29.33	0.997	9.21e5	1.67e6	49.1	-1.8	1.10	bd

**Compound name: PCB-28**

Response Factor: 1.10587

RRF SD: 0.0819508, Relative SD: 7.41051

Response type: Internal Std ( Ref 176 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.02	NO	29.44	1.001	3.86e3	1.52e6	0.229	-8.4	1.01	MM
2	190628K2_2	1.00	1.03	NO	29.44	1.001	1.74e4	1.57e6	1.00	0.3	1.11	db
3	190628K2_3	2.50	1.06	NO	29.44	1.001	4.19e4	1.54e6	2.46	-1.5	1.09	db
4	190628K2_4	400	1.04	NO	29.44	1.001	8.45e6	1.79e6	427	6.7	1.18	db
5	190628K2_5	1000	1.04	NO	29.44	1.001	2.27e7	1.86e6	1100	10.2	1.22	db
6	190628K2_6	50.0	1.03	NO	29.44	1.001	8.56e5	1.67e6	46.4	-7.3	1.03	db

**Compound name: PCB-20/21/33**

Response Factor: 1.00346

RRF SD: 0.0927839, Relative SD: 9.24643

Response type: Internal Std ( Ref 176 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.750	1.06	NO	30.08	1.023	1.08e4	1.52e6	0.706	-5.9	0.944	bb
2	190628K2_2	3.00	1.08	NO	30.08	1.022	4.39e4	1.57e6	2.79	-7.1	0.932	db

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-20/21/33**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	7.50	1.07	NO	30.08	1.022	1.09e5	1.54e6	7.07	-5.8	0.945	MM
4	190628K2_4	1200	1.04	NO	30.08	1.022	2.37e7	1.79e6	1320	9.7	1.10	bb
5	190628K2_5	3000	1.04	NO	30.08	1.022	6.38e7	1.86e6	3410	13.8	1.14	bb
6	190628K2_6	150	1.03	NO	30.08	1.023	2.39e6	1.67e6	143	-4.7	0.956	bb

**Compound name: PCB-22**

Response Factor: 1.03295

RRF SD: 0.101221, Relative SD: 9.79924

Response type: Internal Std ( Ref 176 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.93	NO	30.54	1.039	3.49e3	1.52e6	0.221	-11.4	0.915	MM
2	190628K2_2	1.00	1.07	NO	30.54	1.038	1.53e4	1.57e6	0.944	-5.6	0.975	bb
3	190628K2_3	2.50	1.02	NO	30.54	1.038	3.75e4	1.54e6	2.36	-5.5	0.976	MM
4	190628K2_4	400	1.03	NO	30.54	1.038	8.17e6	1.79e6	442	10.4	1.14	bb
5	190628K2_5	1000	1.05	NO	30.54	1.038	2.18e7	1.86e6	1130	13.3	1.17	bb
6	190628K2_6	50.0	1.05	NO	30.54	1.039	8.52e5	1.67e6	49.4	-1.1	1.02	bb

**Compound name: PCB-36**

Response Factor: 1.17712

RRF SD: 0.0727198, Relative SD: 6.17776

Response type: Internal Std ( Ref 177 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.08	NO	31.18	0.933	4.28e3	1.43e6	0.254	1.5	1.19	MM
2	190628K2_2	1.00	0.97	NO	31.18	0.932	1.46e4	1.38e6	0.898	-10.2	1.06	bb
3	190628K2_3	2.50	0.99	NO	31.18	0.932	3.73e4	1.33e6	2.39	-4.4	1.13	MM
4	190628K2_4	400	1.04	NO	31.18	0.933	8.21e6	1.67e6	419	4.7	1.23	bb
5	190628K2_5	1000	1.03	NO	31.18	0.933	2.20e7	1.76e6	1060	6.2	1.25	MM
6	190628K2_6	50.0	1.03	NO	31.18	0.933	8.45e5	1.40e6	51.1	2.3	1.20	MM

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-39**

Response Factor: 1.08448

RRF SD: 0.0705883, Relative SD: 6.50897

Response type: Internal Std ( Ref 177 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.10	NO	31.66	0.947	3.55e3	1.43e6	0.228	-8.7	0.990	bb
2	190628K2_2	1.00	1.01	NO	31.68	0.947	1.45e4	1.38e6	0.965	-3.5	1.05	bb
3	190628K2_3	2.50	1.08	NO	31.68	0.947	3.44e4	1.33e6	2.39	-4.5	1.04	MM
4	190628K2_4	400	1.04	NO	31.66	0.947	7.60e6	1.67e6	421	5.2	1.14	bb
5	190628K2_5	1000	1.03	NO	31.66	0.947	2.06e7	1.76e6	1080	8.0	1.17	MM
6	190628K2_6	50.0	1.03	NO	31.66	0.947	7.88e5	1.40e6	51.8	3.5	1.12	MM

**Compound name: PCB-38**

Response Factor: 1.1287

RRF SD: 0.110832, Relative SD: 9.81944

Response type: Internal Std ( Ref 177 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.98	NO	32.46	0.971	3.29e3	1.43e6	0.203	-18.6	0.919	MM
2	190628K2_2	1.00	1.07	NO	32.48	0.971	1.55e4	1.38e6	0.991	-0.9	1.12	MM
3	190628K2_3	2.50	1.08	NO	32.48	0.971	3.76e4	1.33e6	2.51	0.4	1.13	dd
4	190628K2_4	400	1.05	NO	32.46	0.971	8.05e6	1.67e6	428	7.0	1.21	dd
5	190628K2_5	1000	1.03	NO	32.46	0.971	2.16e7	1.76e6	1090	8.6	1.23	bd
6	190628K2_6	50.0	1.04	NO	32.46	0.971	8.20e5	1.40e6	51.8	3.5	1.17	MM

**Compound name: PCB-35**

Response Factor: 1.13247

RRF SD: 0.0972119, Relative SD: 8.58404

Response type: Internal Std ( Ref 177 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.03	NO	33.00	0.987	3.61e3	1.43e6	0.222	-11.0	1.01	MM
2	190628K2_2	1.00	1.00	NO	33.02	0.987	1.44e4	1.38e6	0.922	-7.8	1.04	MM



Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-35**

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
190628K2_3	2.50	1.10	NO	33.02	0.987	3.72e4	1.33e6	2.48	-0.9	1.12	MM
190628K2_4	400	1.04	NO	33.00	0.987	8.16e6	1.67e6	433	8.2	1.23	db
190628K2_5	1000	1.03	NO	33.00	0.987	2.21e7	1.76e6	1110	10.9	1.26	MM
190628K2_6	50.0	1.03	NO	33.00	0.987	8.00e5	1.40e6	50.3	0.7	1.14	MM

**Compound name: PCB-37**

Response Factor: 1.10639  
 RRF SD: 0.0811027, Relative SD: 7.33041  
 Response type: Internal Std ( Ref 177 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
190628K2_1	0.250	1.18	NO	33.45	1.001	3.59e3	1.43e6	0.226	-9.5	1.00	MM
190628K2_2	1.00	1.05	NO	33.47	1.001	1.43e4	1.38e6	0.934	-6.6	1.03	MM
190628K2_3	2.50	1.01	NO	33.46	1.001	3.61e4	1.33e6	2.46	-1.6	1.09	MM
190628K2_4	400	1.03	NO	33.45	1.001	7.82e6	1.67e6	424	6.1	1.17	MM
190628K2_5	1000	1.02	NO	33.47	1.001	2.13e7	1.76e6	1100	9.6	1.21	MM
190628K2_6	50.0	1.03	NO	33.45	1.000	7.92e5	1.40e6	51.0	2.0	1.13	MM

**Compound name: PCB-54**

Response Factor: 0.995679  
 RRF SD: 0.0664001, Relative SD: 6.66883  
 Response type: Internal Std ( Ref 178 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
190628K2_1	0.250	0.79	NO	28.27	1.001	3.20e3	1.40e6	0.229	-8.4	0.912	bb
190628K2_2	1.00	0.74	NO	28.29	1.001	1.27e4	1.36e6	0.936	-6.4	0.932	bb
190628K2_3	2.50	0.79	NO	28.29	1.001	3.24e4	1.32e6	2.47	-1.1	0.984	bb
190628K2_4	400	0.74	NO	28.27	1.001	6.68e6	1.58e6	424	5.9	1.05	bb
190628K2_5	1000	0.74	NO	28.27	1.001	1.74e7	1.61e6	1080	8.4	1.08	bb
190628K2_6	50.0	0.73	NO	28.27	1.001	6.93e5	1.37e6	50.8	1.7	1.01	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-50**

Response Factor: 0.781202

RRF SD: 0.0775047, Relative SD: 9.92121

Response type: Internal Std ( Ref 178 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.66	NO	29.48	1.043	2.28e3	1.40e6	0.208	-16.8	0.650	MM
2	190628K2_2	1.00	0.68	NO	29.50	1.044	1.05e4	1.36e6	0.989	-1.1	0.773	bb
3	190628K2_3	2.50	0.67	NO	29.50	1.044	2.49e4	1.32e6	2.42	-3.3	0.756	bb
4	190628K2_4	400	0.74	NO	29.48	1.043	5.33e6	1.58e6	431	7.6	0.841	bb
5	190628K2_5	1000	0.73	NO	29.48	1.043	1.41e7	1.61e6	1120	11.8	0.873	bb
6	190628K2_6	50.0	0.73	NO	29.48	1.043	5.43e5	1.37e6	50.8	1.6	0.794	bb

**Compound name: PCB-53**

Response Factor: 0.955008

RRF SD: 0.0614164, Relative SD: 6.43098

Response type: Internal Std ( Ref 179 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.73	NO	30.15	0.945	2.37e3	1.07e6	0.232	-7.3	0.885	bb
2	190628K2_2	1.00	0.76	NO	30.17	0.945	9.52e3	1.04e6	0.959	-4.1	0.916	bb
3	190628K2_3	2.50	0.68	NO	30.17	0.945	2.32e4	1.02e6	2.39	-4.2	0.915	bb
4	190628K2_4	400	0.74	NO	30.15	0.945	4.94e6	1.23e6	420	4.9	1.00	bb
5	190628K2_5	1000	0.73	NO	30.15	0.945	1.31e7	1.25e6	1100	9.6	1.05	bb
6	190628K2_6	50.0	0.74	NO	30.15	0.945	5.05e5	1.05e6	50.5	1.1	0.965	bb

**Compound name: PCB-51**

Response Factor: 1.02351

RRF SD: 0.0633167, Relative SD: 6.18623

Response type: Internal Std ( Ref 179 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.66	NO	30.51	0.956	2.48e3	1.07e6	0.227	-9.4	0.927	MM
2	190628K2_2	1.00	0.66	NO	30.52	0.956	1.04e4	1.04e6	0.981	-1.9	1.00	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-51**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	190628K2_3	2.50	0.67	NO	30.52	0.956	2.52e4	1.02e6	2.42	-3.1	0.992	bb
4	190628K2_4	400	0.73	NO	30.51	0.956	5.22e6	1.23e6	413	3.4	1.06	bb
5	190628K2_5	1000	0.73	NO	30.51	0.956	1.39e7	1.25e6	1090	8.5	1.11	bb
6	190628K2_6	50.0	0.74	NO	30.51	0.956	5.49e5	1.05e6	51.2	2.5	1.05	bb

**Compound name: PCB-45**

Response Factor: 0.807911

RRF SD: 0.0407904, Relative SD: 5.04887

Response type: Internal Std ( Ref 179 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.66	NO	30.95	0.970	2.12e3	1.07e6	0.245	-2.1	0.791	MM
2	190628K2_2	1.00	0.73	NO	30.97	0.970	7.77e3	1.04e6	0.925	-7.5	0.748	bb
3	190628K2_3	2.50	0.75	NO	30.97	0.970	2.00e4	1.02e6	2.44	-2.5	0.788	bb
4	190628K2_4	400	0.74	NO	30.95	0.970	4.13e6	1.23e6	415	3.7	0.838	bb
5	190628K2_5	1000	0.73	NO	30.95	0.970	1.08e7	1.25e6	1070	6.6	0.862	bb
6	190628K2_6	50.0	0.73	NO	30.95	0.970	4.30e5	1.05e6	50.9	1.7	0.822	bb

**Compound name: PCB-46**

Response Factor: 0.753501

RRF SD: 0.0632692, Relative SD: 8.39669

Response type: Internal Std ( Ref 179 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.75	NO	31.45	0.985	1.71e3	1.07e6	0.212	-15.4	0.637	bb
2	190628K2_2	1.00	0.73	NO	31.47	0.985	7.76e3	1.04e6	0.991	-0.9	0.746	bb
3	190628K2_3	2.50	0.75	NO	31.47	0.985	1.90e4	1.02e6	2.49	-0.6	0.749	bb
4	190628K2_4	400	0.74	NO	31.47	0.986	3.91e6	1.23e6	421	5.3	0.794	bb
5	190628K2_5	1000	0.73	NO	31.47	0.986	1.02e7	1.25e6	1090	8.9	0.820	bb
6	190628K2_6	50.0	0.72	NO	31.45	0.985	4.05e5	1.05e6	51.4	2.7	0.774	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-52/69**

Response Factor: 1.09173

RRF SD: 0.0899407, Relative SD: 8.23834

Response type: Internal Std ( Ref 179 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.500	0.75	NO	31.96	1.001	5.35e3	1.07e6	0.458	-8.5	0.999	bd
2	190628K2_2	2.00	0.77	NO	31.98	1.001	2.09e4	1.04e6	1.84	-7.9	1.01	bd
3	190628K2_3	5.00	0.71	NO	31.98	1.001	5.25e4	1.02e6	4.73	-5.3	1.03	bd
4	190628K2_4	800	0.74	NO	31.96	1.001	1.15e7	1.23e6	852	6.5	1.16	bd
5	190628K2_5	2000	0.73	NO	31.96	1.001	3.02e7	1.25e6	2210	10.7	1.21	bd
6	190628K2_6	100	0.73	NO	31.96	1.001	1.19e6	1.05e6	105	4.6	1.14	MM

**Compound name: PCB-73**

Response Factor: 1.2893

RRF SD: 0.068651, Relative SD: 5.32466

Response type: Internal Std ( Ref 179 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.73	NO	32.07	1.005	3.17e3	1.07e6	0.230	-8.0	1.19	dd
2	190628K2_2	1.00	0.73	NO	32.09	1.005	1.32e4	1.04e6	0.985	-1.5	1.27	dd
3	190628K2_3	2.50	0.72	NO	32.09	1.005	3.30e4	1.02e6	2.52	0.8	1.30	dd
4	190628K2_4	400	0.74	NO	32.09	1.005	6.50e6	1.23e6	409	2.3	1.32	dd
5	190628K2_5	1000	0.73	NO	32.09	1.005	1.74e7	1.25e6	1080	8.1	1.39	dd
6	190628K2_6	50.0	0.73	NO	32.07	1.005	6.64e5	1.05e6	49.2	-1.7	1.27	dd

**Compound name: PCB-43/49**

Response Factor: 0.940031

RRF SD: 0.058647, Relative SD: 6.23884

Response type: Internal Std ( Ref 179 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.500	0.67	NO	32.26	1.010	4.70e3	1.07e6	0.467	-6.6	0.878	MM
2	190628K2_2	2.00	0.68	NO	32.26	1.010	1.87e4	1.04e6	1.91	-4.4	0.899	dd

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-43/49**

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3 190628K2_3	5.00	0.73	NO	32.26	1.010	4.56e4	1.02e6	4.78	-4.5	0.898	dd
4 190628K2_4	800	0.73	NO	32.26	1.010	9.70e6	1.23e6	837	4.6	0.984	dd
5 190628K2_5	2000	0.72	NO	32.26	1.010	2.57e7	1.25e6	2190	9.4	1.03	db
6 190628K2_6	100	0.73	NO	32.26	1.010	9.97e5	1.05e6	101	1.3	0.953	dd

**Compound name: PCB-47**

Response Factor: 0.868678

RRF SD: 0.0634962, Relative SD: 7.30951

Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1 190628K2_1	0.250	0.67	NO	32.48	1.001	2.51e3	1.14e6	0.254	1.6	0.882	MM
2 190628K2_2	1.00	0.69	NO	32.48	1.001	8.63e3	1.09e6	0.910	-9.0	0.791	dd
3 190628K2_3	2.50	0.73	NO	32.48	1.001	2.07e4	1.05e6	2.26	-9.4	0.787	dd
4 190628K2_4	400	0.73	NO	32.46	1.001	4.78e6	1.31e6	422	5.5	0.916	dd
5 190628K2_5	1000	0.71	NO	32.48	1.001	1.26e7	1.37e6	1060	6.1	0.922	bd
6 190628K2_6	50.0	0.72	NO	32.46	1.001	5.03e5	1.10e6	52.6	5.3	0.914	dd

**Compound name: PCB-48/75**

Response Factor: 1.02436

RRF SD: 0.066255, Relative SD: 6.46797

Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1 190628K2_1	0.500	0.69	NO	32.57	1.004	5.30e3	1.14e6	0.454	-9.2	0.931	MM
2 190628K2_2	2.00	0.71	NO	32.59	1.004	2.10e4	1.09e6	1.88	-6.1	0.962	db
3 190628K2_3	5.00	0.70	NO	32.59	1.004	5.45e4	1.05e6	5.07	1.3	1.04	db
4 190628K2_4	800	0.73	NO	32.59	1.005	1.13e7	1.31e6	844	5.5	1.08	db
5 190628K2_5	2000	0.73	NO	32.59	1.005	3.01e7	1.37e6	2150	7.4	1.10	db
6 190628K2_6	100	0.73	NO	32.57	1.004	1.14e6	1.10e6	101	0.9	1.03	db

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**Compound name: PCB-65**

Response Factor: 1.10841

RRF SD: 0.0667228, Relative SD: 6.01968

Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.75	NO	32.85	1.013	2.77e3	1.14e6	0.220	-12.1	0.975	bd
2	190628K2_2	1.00	0.76	NO	32.87	1.013	1.22e4	1.09e6	1.00	0.5	1.11	bd
3	190628K2_3	2.50	0.71	NO	32.87	1.013	3.00e4	1.05e6	2.57	2.9	1.14	bd
4	190628K2_4	400	0.74	NO	32.85	1.013	5.93e6	1.31e6	410	2.5	1.14	bd
5	190628K2_5	1000	0.74	NO	32.87	1.013	1.55e7	1.37e6	1020	2.2	1.13	bd
6	190628K2_6	50.0	0.72	NO	32.85	1.013	6.33e5	1.10e6	51.9	3.9	1.15	bd

**Compound name: PCB-62**

Response Factor: 1.06501

RRF SD: 0.0827847, Relative SD: 7.77311

Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.78	NO	32.96	1.016	2.82e3	1.14e6	0.233	-7.0	0.991	dd
2	190628K2_2	1.00	0.77	NO	32.98	1.016	1.11e4	1.09e6	0.953	-4.7	1.01	db
3	190628K2_3	2.50	0.74	NO	32.98	1.016	2.56e4	1.05e6	2.29	-8.3	0.977	dd
4	190628K2_4	400	0.74	NO	32.96	1.016	5.99e6	1.31e6	431	7.8	1.15	dd
5	190628K2_5	1000	0.74	NO	32.96	1.016	1.60e7	1.37e6	1100	9.8	1.17	dd
6	190628K2_6	50.0	0.73	NO	32.96	1.016	5.99e5	1.10e6	51.2	2.3	1.09	dd

**Compound name: PCB-44**

Response Factor: 0.760908

RRF SD: 0.0302402, Relative SD: 3.97423

Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.88	NO	33.30	1.026	2.12e3	1.14e6	0.244	-2.3	0.743	MM
2	190628K2_2	1.00	0.72	NO	33.30	1.026	7.80e3	1.09e6	0.940	-6.0	0.715	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-44**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	190628K2_3	2.50	0.75	NO	33.30	1.026	1.97e4	1.05e6	2.47	-1.2	0.751	db
4	190628K2_4	400	0.74	NO	33.30	1.026	4.10e6	1.31e6	413	3.2	0.785	dd
5	190628K2_5	1000	0.74	NO	33.30	1.026	1.09e7	1.37e6	1050	4.8	0.797	dd
6	190628K2_6	50.0	0.73	NO	33.28	1.026	4.25e5	1.10e6	50.8	1.6	0.773	db

**Compound name: PCB-42/59**

Response Factor: 0.960007

RRF SD: 0.0903412, Relative SD: 9.41048

Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.500	0.75	NO	33.52	1.033	4.53e3	1.14e6	0.414	-17.2	0.795	db
2	190628K2_2	2.00	0.73	NO	33.54	1.033	2.05e4	1.09e6	1.96	-2.0	0.941	bb
3	190628K2_3	5.00	0.71	NO	33.54	1.033	5.05e4	1.05e6	5.01	0.2	0.962	bb
4	190628K2_4	800	0.74	NO	33.52	1.033	1.07e7	1.31e6	855	6.8	1.03	db
5	190628K2_5	2000	0.73	NO	33.52	1.033	2.87e7	1.37e6	2190	9.4	1.05	db
6	190628K2_6	100	0.72	NO	33.52	1.033	1.08e6	1.10e6	103	2.7	0.986	bb

**Compound name: PCB-41/64/71/72**

Response Factor: 1.08179

RRF SD: 0.0879965, Relative SD: 8.13432

Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	1.00	0.76	NO	34.13	1.052	1.07e4	1.14e6	0.871	-12.9	0.942	bd
2	190628K2_2	4.00	0.74	NO	34.13	1.052	4.46e4	1.09e6	3.78	-5.5	1.02	bd
3	190628K2_3	10.0	0.73	NO	34.13	1.052	1.14e5	1.05e6	10.0	0.1	1.08	bd
4	190628K2_4	1600	0.74	NO	34.13	1.052	2.42e7	1.31e6	1710	6.9	1.16	bb
5	190628K2_5	4000	0.73	NO	34.13	1.052	6.44e7	1.37e6	4360	9.0	1.18	bb
6	190628K2_6	200	0.74	NO	34.13	1.052	2.44e6	1.10e6	205	2.5	1.11	bd

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-68**

Response Factor: 1.10853

RRF SD: 0.0810855, Relative SD: 7.31468

Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.71	NO	34.40	1.060	2.79e3	1.14e6	0.221	-11.5	0.981	MM
2	190628K2_2	1.00	0.76	NO	34.41	1.060	1.17e4	1.09e6	0.966	-3.4	1.07	dd
3	190628K2_3	2.50	0.71	NO	34.41	1.060	2.81e4	1.05e6	2.42	-3.3	1.07	dd
4	190628K2_4	400	0.73	NO	34.40	1.060	6.17e6	1.31e6	426	6.6	1.18	bd
5	190628K2_5	1000	0.74	NO	34.40	1.060	1.62e7	1.37e6	1070	6.9	1.18	bd
6	190628K2_6	50.0	0.73	NO	34.40	1.060	6.38e5	1.10e6	52.4	4.7	1.16	dd

**Compound name: PCB-40**

Response Factor: 0.576632

RRF SD: 0.0227461, Relative SD: 3.94465

Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.70	NO	34.62	1.067	1.69e3	1.14e6	0.257	2.7	0.592	MM
2	190628K2_2	1.00	0.68	NO	34.64	1.067	5.79e3	1.09e6	0.921	-7.9	0.531	db
3	190628K2_3	2.50	0.74	NO	34.64	1.067	1.52e4	1.05e6	2.51	0.4	0.579	db
4	190628K2_4	400	0.73	NO	34.62	1.067	3.06e6	1.31e6	406	1.5	0.585	db
5	190628K2_5	1000	0.74	NO	34.62	1.067	8.01e6	1.37e6	1020	1.6	0.586	db
6	190628K2_6	50.0	0.73	NO	34.62	1.067	3.22e5	1.10e6	50.8	1.7	0.586	db

**Compound name: PCB-57**

Response Factor: 1.04788

RRF SD: 0.0809961, Relative SD: 7.72955

Response type: Internal Std ( Ref 181 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.71	NO	34.99	0.970	2.89e3	1.27e6	0.217	-13.0	0.911	bb
2	190628K2_2	1.00	0.75	NO	35.01	0.970	1.23e4	1.22e6	0.962	-3.8	1.01	bb



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**Compound name: PCB-57**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	2.50	0.73	NO	35.01	0.970	3.06e4	1.18e6	2.47	-1.3	1.03	bb
4	190628K2_4	400	0.74	NO	34.99	0.970	6.57e6	1.49e6	420	5.1	1.10	bb
5	190628K2_5	1000	0.74	NO	34.99	0.970	1.77e7	1.56e6	1080	7.8	1.13	bb
6	190628K2_6	50.0	0.72	NO	34.99	0.970	6.82e5	1.24e6	52.6	5.2	1.10	bb

**Compound name: PCB-67**

Response Factor: 0.992916

RRF SD: 0.0717571, Relative SD: 7.2269

Response type: Internal Std ( Ref 181 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.66	NO	35.31	0.978	2.75e3	1.27e6	0.218	-12.6	0.868	bd
2	190628K2_2	1.00	0.77	NO	35.33	0.979	1.20e4	1.22e6	0.993	-0.7	0.986	bd
3	190628K2_3	2.50	0.74	NO	35.33	0.978	2.97e4	1.18e6	2.52	1.0	1.00	bd
4	190628K2_4	400	0.73	NO	35.31	0.978	6.00e6	1.49e6	405	1.2	1.00	bd
5	190628K2_5	1000	0.73	NO	35.31	0.978	1.71e7	1.56e6	1100	9.9	1.09	bd
6	190628K2_6	50.0	0.72	NO	35.31	0.978	6.21e5	1.24e6	50.6	1.2	1.00	bd

**Compound name: PCB-58**

Response Factor: 1.11217

RRF SD: 0.0467973, Relative SD: 4.20775

Response type: Internal Std ( Ref 181 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.67	NO	35.44	0.982	3.49e3	1.27e6	0.248	-1.0	1.10	MM
2	190628K2_2	1.00	0.70	NO	35.44	0.982	1.25e4	1.22e6	0.925	-7.5	1.03	dd
3	190628K2_3	2.50	0.71	NO	35.44	0.981	3.31e4	1.18e6	2.51	0.5	1.12	dd
4	190628K2_4	400	0.74	NO	35.44	0.982	6.93e6	1.49e6	418	4.5	1.16	dd
5	190628K2_5	1000	0.74	NO	35.44	0.982	1.74e7	1.56e6	1000	0.2	1.11	dd
6	190628K2_6	50.0	0.74	NO	35.44	0.982	7.10e5	1.24e6	51.6	3.2	1.15	dd

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**Compound name: PCB-63**

Response Factor: 0.961792

RRF SD: 0.0723112, Relative SD: 7.51838

Response type: Internal Std ( Ref 181 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.68	NO	35.59	0.986	2.72e3	1.27e6	0.224	-10.6	0.860	MM
2	190628K2_2	1.00	0.70	NO	35.60	0.987	1.09e4	1.22e6	0.934	-6.6	0.898	db
3	190628K2_3	2.50	0.74	NO	35.60	0.986	2.79e4	1.18e6	2.45	-1.9	0.944	dd
4	190628K2_4	400	0.74	NO	35.59	0.986	6.04e6	1.49e6	421	5.2	1.01	db
5	190628K2_5	1000	0.74	NO	35.59	0.986	1.61e7	1.56e6	1070	7.4	1.03	db
6	190628K2_6	50.0	0.72	NO	35.59	0.986	6.33e5	1.24e6	53.2	6.4	1.02	db

**Compound name: PCB-74**

Response Factor: 1.06583

RRF SD: 0.0816242, Relative SD: 7.65827

Response type: Internal Std ( Ref 181 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.71	NO	35.90	0.995	3.13e3	1.27e6	0.232	-7.3	0.988	bd
2	190628K2_2	1.00	0.83	NO	35.90	0.995	1.15e4	1.22e6	0.886	-11.4	0.944	MM
3	190628K2_3	2.50	0.76	NO	35.90	0.994	3.22e4	1.18e6	2.55	1.9	1.09	dd
4	190628K2_4	400	0.74	NO	35.88	0.994	6.70e6	1.49e6	422	5.4	1.12	bd
5	190628K2_5	1000	0.73	NO	35.88	0.994	1.80e7	1.56e6	1080	8.2	1.15	bd
6	190628K2_6	50.0	0.74	NO	35.88	0.994	6.80e5	1.24e6	51.6	3.2	1.10	bd

**Compound name: PCB-61/70**

Response Factor: 0.985643

RRF SD: 0.056601, Relative SD: 5.74254

Response type: Internal Std ( Ref 181 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	0.81	NO	36.11	1.000	5.61e3	1.27e6	0.449	-10.1	0.886	MM
2	190628K2_2	2.00	0.72	NO	36.13	1.001	2.35e4	1.22e6	1.95	-2.3	0.963	MM

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**Compound name: PCB-61/70**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	5.00	0.73	NO	36.13	1.001	5.82e4	1.18e6	4.99	-0.3	0.983	MM
4	190628K2_4	800	0.74	NO	36.03	0.998	1.22e7	1.49e6	831	3.9	1.02	MM
5	190628K2_5	2000	0.74	NO	36.03	0.998	3.26e7	1.56e6	2110	5.7	1.04	MM
6	190628K2_6	100	0.74	NO	36.11	1.000	1.26e6	1.24e6	103	3.1	1.02	MM

**Compound name: PCB-76/66**

Response Factor: 1.0661

RRF SD: 0.0763356, Relative SD: 7.16024

Response type: Internal Std ( Ref 181 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	0.83	NO	36.33	1.007	6.00e3	1.27e6	0.444	-11.1	0.948	MM
2	190628K2_2	2.00	0.73	NO	36.29	1.006	2.50e4	1.22e6	1.92	-3.9	1.02	dd
3	190628K2_3	5.00	0.76	NO	36.28	1.005	6.17e4	1.18e6	4.89	-2.2	1.04	dd
4	190628K2_4	800	0.74	NO	36.31	1.006	1.34e7	1.49e6	845	5.6	1.13	dd
5	190628K2_5	2000	0.73	NO	36.31	1.006	3.61e7	1.56e6	2170	8.4	1.16	dd
6	190628K2_6	100	0.74	NO	36.28	1.005	1.36e6	1.24e6	103	3.2	1.10	dd

**Compound name: PCB-80**

Response Factor: 1.08392

RRF SD: 0.0649364, Relative SD: 5.99086

Response type: Internal Std ( Ref 182 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.75	NO	36.55	1.000	3.23e3	1.31e6	0.227	-9.3	0.983	dd
2	190628K2_2	1.00	0.68	NO	36.55	1.001	1.33e4	1.25e6	0.981	-1.9	1.06	db
3	190628K2_3	2.50	0.76	NO	36.55	1.001	3.26e4	1.23e6	2.44	-2.5	1.06	dd
4	190628K2_4	400	0.74	NO	36.55	1.001	6.98e6	1.53e6	420	4.9	1.14	db
5	190628K2_5	1000	0.74	NO	36.55	1.000	1.88e7	1.61e6	1080	7.6	1.17	db
6	190628K2_6	50.0	0.75	NO	36.53	1.000	7.20e5	1.31e6	50.6	1.2	1.10	dd

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**Compound name: PCB-55**

Response Factor: 1.06819

RRF SD: 0.100229, Relative SD: 9.38306

Response type: Internal Std ( Ref 182 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.86	NO	36.89	1.010	3.03e3	1.31e6	0.216	-13.6	0.922	MM
2	190628K2_2	1.00	0.72	NO	36.89	1.010	1.26e4	1.25e6	0.939	-6.1	1.00	MM
3	190628K2_3	2.50	0.77	NO	36.89	1.010	3.19e4	1.23e6	2.42	-3.1	1.04	dd
4	190628K2_4	400	0.73	NO	36.87	1.010	7.08e6	1.53e6	432	8.1	1.15	bb
5	190628K2_5	1000	0.73	NO	36.87	1.009	1.92e7	1.61e6	1120	11.5	1.19	bb
6	190628K2_6	50.0	0.75	NO	36.87	1.010	7.23e5	1.31e6	51.6	3.2	1.10	dd

**Compound name: PCB-56/60**

Response Factor: 0.934354

RRF SD: 0.0390998, Relative SD: 4.18469

Response type: Internal Std ( Ref 182 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	0.75	NO	37.39	1.023	5.86e3	1.31e6	0.478	-4.5	0.893	bb
2	190628K2_2	2.00	0.69	NO	37.39	1.023	2.28e4	1.25e6	1.95	-2.7	0.910	bb
3	190628K2_3	5.00	0.74	NO	37.39	1.023	5.58e4	1.23e6	4.84	-3.2	0.904	bd
4	190628K2_4	800	0.74	NO	37.39	1.024	1.19e7	1.53e6	831	3.8	0.970	bb
5	190628K2_5	2000	0.74	NO	37.39	1.023	3.19e7	1.61e6	2120	5.9	0.990	bb
6	190628K2_6	100	0.74	NO	37.39	1.024	1.23e6	1.31e6	101	0.6	0.940	bb

**Compound name: PCB-79**

Response Factor: 1.04488

RRF SD: 0.0597552, Relative SD: 5.71883

Response type: Internal Std ( Ref 182 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.87	NO	38.49	1.054	3.42e3	1.31e6	0.249	-0.4	1.04	MM
2	190628K2_2	1.00	0.73	NO	38.51	1.054	1.19e4	1.25e6	0.910	-9.0	0.951	bb

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**Compound name: PCB-79**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	190628K2_3	2.50	0.71	NO	38.51	1.054	3.19e4	1.23e6	2.47	-1.1	1.03	MM
4	190628K2_4	400	0.74	NO	38.49	1.054	6.73e6	1.53e6	420	5.0	1.10	bb
5	190628K2_5	1000	0.75	NO	38.49	1.054	1.81e7	1.61e6	1070	7.3	1.12	MM
6	190628K2_6	50.0	0.74	NO	38.49	1.054	6.73e5	1.31e6	49.1	-1.8	1.03	MM

**Compound name: PCB-78**

Response Factor: 1.03197

RRF SD: 0.0850665, Relative SD: 8.24308

Response type: Internal Std ( Ref 183 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.75	NO	39.22	0.987	2.86e3	1.24e6	0.224	-10.6	0.923	MM
2	190628K2_2	1.00	0.74	NO	39.22	0.986	1.18e4	1.19e6	0.956	-4.4	0.986	db
3	190628K2_3	2.50	0.75	NO	39.22	0.987	2.77e4	1.14e6	2.36	-5.5	0.975	MM
4	190628K2_4	400	0.73	NO	39.22	0.987	6.50e6	1.46e6	432	8.0	1.12	MM
5	190628K2_5	1000	0.73	NO	39.22	0.987	1.74e7	1.53e6	1100	10.4	1.14	MM
6	190628K2_6	50.0	0.73	NO	39.22	0.987	6.47e5	1.23e6	51.0	2.0	1.05	MM

**Compound name: PCB-81**

Response Factor: 0.933105

RRF SD: 0.078076, Relative SD: 8.36733

Response type: Internal Std ( Ref 183 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.67	NO	39.75	1.000	2.71e3	1.24e6	0.235	-6.2	0.875	bd
2	190628K2_2	1.00	0.77	NO	39.77	1.000	1.01e4	1.19e6	0.909	-9.1	0.848	MM
3	190628K2_3	2.50	0.72	NO	39.77	1.001	2.55e4	1.14e6	2.41	-3.7	0.899	MM
4	190628K2_4	400	0.74	NO	39.75	1.000	5.92e6	1.46e6	435	8.7	1.01	MM
5	190628K2_5	1000	0.74	NO	39.75	1.000	1.59e7	1.53e6	1120	11.7	1.04	MM
6	190628K2_6	50.0	0.72	NO	39.76	1.000	5.65e5	1.23e6	49.3	-1.5	0.919	MM

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**Compound name: PCB-77**

Response Factor: 1.03273

RRF SD: 0.0795206, Relative SD: 7.70007

Response type: Internal Std ( Ref 184 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.74	NO	40.37	1.000	2.73e3	1.21e6	0.219	-12.4	0.905	bb
2	190628K2_2	1.00	0.68	NO	40.39	1.000	1.15e4	1.13e6	0.986	-1.4	1.02	MM
3	190628K2_3	2.50	0.75	NO	40.39	1.000	2.73e4	1.11e6	2.39	-4.4	0.988	MM
4	190628K2_4	400	0.74	NO	40.37	1.000	6.32e6	1.44e6	425	6.1	1.10	MM
5	190628K2_5	1000	0.75	NO	40.37	1.000	1.70e7	1.52e6	1090	8.5	1.12	MM
6	190628K2_6	50.0	0.73	NO	40.37	1.000	6.31e5	1.18e6	51.7	3.5	1.07	MM

**Compound name: PCB-104**

Response Factor: 0.994572

RRF SD: 0.0359619, Relative SD: 3.61582

Response type: Internal Std ( Ref 185 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.34	NO	33.15	1.001	3.15e3	1.30e6	0.243	-2.7	0.967	MM
2	190628K2_2	1.00	1.52	NO	33.15	1.001	1.20e4	1.26e6	0.960	-4.0	0.955	bb
3	190628K2_3	2.50	1.54	NO	33.15	1.001	2.98e4	1.21e6	2.47	-1.2	0.983	bb
4	190628K2_4	400	1.51	NO	33.15	1.001	6.03e6	1.46e6	416	4.1	1.04	bb
5	190628K2_5	1000	1.49	NO	33.15	1.000	1.56e7	1.49e6	1050	4.8	1.04	bb
6	190628K2_6	50.0	1.52	NO	33.15	1.001	6.27e5	1.27e6	49.5	-1.0	0.985	bb

**Compound name: PCB-96**

Response Factor: 0.995734

RRF SD: 0.0461167, Relative SD: 4.63142

Response type: Internal Std ( Ref 185 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.55	NO	34.45	1.041	3.25e3	1.30e6	0.250	0.0	0.996	bb
2	190628K2_2	1.00	1.56	NO	34.45	1.040	1.17e4	1.26e6	0.931	-6.9	0.927	bb

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**Compound name: PCB-96**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	2.50	1.49	NO	34.45	1.040	3.00e4	1.21e6	2.48	-0.8	0.988	bb
4	190628K2_4	400	1.50	NO	34.45	1.041	6.04e6	1.46e6	417	4.2	1.04	bb
5	190628K2_5	1000	1.51	NO	34.45	1.040	1.58e7	1.49e6	1060	6.0	1.06	bb
6	190628K2_6	50.0	1.53	NO	34.45	1.041	6.18e5	1.27e6	48.8	-2.5	0.971	bb

**Compound name: PCB-103**

Response Factor: 0.774288

RRF SD: 0.0499129, Relative SD: 6.4463

Response type: Internal Std ( Ref 185 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.35	NO	35.01	1.057	2.37e3	1.30e6	0.235	-6.2	0.727	MM
2	190628K2_2	1.00	1.69	NO	35.03	1.057	9.21e3	1.26e6	0.945	-5.5	0.731	bb
3	190628K2_3	2.50	1.52	NO	35.03	1.057	2.28e4	1.21e6	2.43	-2.8	0.752	bb
4	190628K2_4	400	1.52	NO	35.01	1.057	4.78e6	1.46e6	424	5.9	0.820	bb
5	190628K2_5	1000	1.51	NO	35.01	1.057	1.27e7	1.49e6	1100	9.7	0.850	bb
6	190628K2_6	50.0	1.53	NO	35.01	1.057	4.88e5	1.27e6	49.4	-1.1	0.766	bb

**Compound name: PCB-100**

Response Factor: 0.777612

RRF SD: 0.0705535, Relative SD: 9.07309

Response type: Internal Std ( Ref 185 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.45	NO	35.38	1.069	2.18e3	1.30e6	0.215	-13.9	0.670	MM
2	190628K2_2	1.00	1.35	NO	35.38	1.068	9.30e3	1.26e6	0.950	-5.0	0.739	MM
3	190628K2_3	2.50	1.40	NO	35.38	1.068	2.34e4	1.21e6	2.47	-1.1	0.769	bb
4	190628K2_4	400	1.52	NO	35.38	1.069	4.88e6	1.46e6	431	7.7	0.838	bb
5	190628K2_5	1000	1.50	NO	35.38	1.068	1.30e7	1.49e6	1120	11.5	0.867	bb
6	190628K2_6	50.0	1.53	NO	35.38	1.069	4.99e5	1.27e6	50.4	0.7	0.783	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-94**

Response Factor: 0.773443

RRF SD: 0.0605917, Relative SD: 7.83403

Response type: Internal Std ( Ref 186 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.33	NO	35.87	0.985	1.67e3	9.93e5	0.217	-13.2	0.671	MM
2	190628K2_2	1.00	1.46	NO	35.88	0.986	7.45e3	9.59e5	1.00	0.4	0.777	bb
3	190628K2_3	2.50	1.41	NO	35.87	0.985	1.74e4	9.46e5	2.38	-4.6	0.738	bb
4	190628K2_4	400	1.51	NO	35.87	0.985	3.77e6	1.15e6	424	6.1	0.821	bb
5	190628K2_5	1000	1.52	NO	35.87	0.985	1.01e7	1.21e6	1080	7.8	0.834	bb
6	190628K2_6	50.0	1.51	NO	35.87	0.986	3.89e5	9.73e5	51.7	3.5	0.800	bb

**Compound name: PCB-95/98/102**

Response Factor: 1.01472

RRF SD: 0.0444164, Relative SD: 4.37721

Response type: Internal Std ( Ref 186 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.750	1.45	NO	36.35	0.998	7.23e3	9.93e5	0.718	-4.3	0.971	MM
2	190628K2_2	3.00	1.52	NO	36.35	0.998	2.93e4	9.59e5	3.01	0.4	1.02	bd
3	190628K2_3	7.50	1.57	NO	36.37	0.999	6.75e4	9.46e5	7.04	-6.2	0.952	MM
4	190628K2_4	1200	1.51	NO	36.35	0.998	1.45e7	1.15e6	1250	3.8	1.05	bd
5	190628K2_5	3000	1.51	NO	36.35	0.998	3.85e7	1.21e6	3140	4.7	1.06	MM
6	190628K2_6	150	1.51	NO	36.35	0.999	1.50e6	9.73e5	152	1.6	1.03	bd

**Compound name: PCB-93**

Response Factor: 0.841043

RRF SD: 0.0741261, Relative SD: 8.81359

Response type: Internal Std ( Ref 186 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.67	NO	36.46	1.002	2.06e3	9.93e5	0.246	-1.5	0.828	MM
2	190628K2_2	1.00	1.72	NO	36.50	1.003	6.82e3	9.59e5	0.846	-15.4	0.712	db



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**Compound name: PCB-93**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	2.50	1.51	NO	36.46	1.002	2.14e4	9.46e5	2.70	7.9	0.907	MM
4	190628K2_4	400	1.52	NO	36.50	1.003	4.00e6	1.15e6	414	3.6	0.871	db
5	190628K2_5	1000	1.53	NO	36.50	1.003	1.10e7	1.21e6	1080	8.2	0.910	MM
6	190628K2_6	50.0	1.54	NO	36.50	1.003	3.98e5	9.73e5	48.6	-2.8	0.817	db

**Compound name: PCB-88/91**

Response Factor: 0.889596

RRF SD: 0.0370179, Relative SD: 4.1612

Response type: Internal Std ( Ref 186 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.43	NO	36.85	1.012	4.66e3	9.93e5	0.527	5.5	0.938	MM
2	190628K2_2	2.00	1.76	NO	36.83	1.012	1.58e4	9.59e5	1.85	-7.3	0.825	bd
3	190628K2_3	5.00	1.61	NO	36.85	1.012	4.25e4	9.46e5	5.05	1.0	0.898	dd
4	190628K2_4	800	1.51	NO	36.83	1.012	8.11e6	1.15e6	794	-0.8	0.883	bd
5	190628K2_5	2000	1.50	NO	36.83	1.012	2.16e7	1.21e6	2010	0.7	0.896	bd
6	190628K2_6	100	1.51	NO	36.83	1.012	8.74e5	9.73e5	101	0.9	0.898	bd

**Compound name: PCB-121**

Response Factor: 1.38597

RRF SD: 0.134648, Relative SD: 9.71511

Response type: Internal Std ( Ref 186 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.45	NO	36.93	1.014	3.03e3	9.93e5	0.220	-12.1	1.22	MM
2	190628K2_2	1.00	1.40	NO	36.93	1.014	1.26e4	9.59e5	0.951	-4.9	1.32	db
3	190628K2_3	2.50	1.53	NO	36.93	1.014	3.02e4	9.46e5	2.31	-7.7	1.28	db
4	190628K2_4	400	1.53	NO	36.93	1.014	6.96e6	1.15e6	437	9.3	1.52	db
5	190628K2_5	1000	1.53	NO	36.93	1.014	1.88e7	1.21e6	1120	12.1	1.55	db
6	190628K2_6	50.0	1.51	NO	36.93	1.015	6.96e5	9.73e5	51.6	3.2	1.43	db

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**Compound name: PCB-84/92**

Response Factor: 0.878502  
 RRF SD: 0.0491541, Relative SD: 5.59522  
 Response type: Internal Std ( Ref 187 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.61	NO	37.78	0.990	3.92e3	9.69e5	0.460	-7.9	0.809	bd
2	190628K2_2	2.00	1.46	NO	37.78	0.990	1.59e4	9.17e5	1.97	-1.3	0.868	MM
3	190628K2_3	5.00	1.58	NO	37.78	0.990	3.80e4	8.90e5	4.86	-2.7	0.854	bd
4	190628K2_4	800	1.50	NO	37.78	0.990	7.95e6	1.08e6	836	4.4	0.918	bd
5	190628K2_5	2000	1.50	NO	37.78	0.990	2.15e7	1.13e6	2160	8.0	0.949	bd
6	190628K2_6	100	1.55	NO	37.76	0.990	8.29e5	9.49e5	99.4	-0.6	0.874	bd

**Compound name: PCB-89**

Response Factor: 0.959382  
 RRF SD: 0.0317425, Relative SD: 3.30865  
 Response type: Internal Std ( Ref 187 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.72	NO	37.97	0.995	2.23e3	9.69e5	0.240	-4.1	0.920	MM
2	190628K2_2	1.00	1.37	NO	37.97	0.995	8.81e3	9.17e5	1.00	0.2	0.961	MM
3	190628K2_3	2.50	1.47	NO	37.97	0.995	2.06e4	8.90e5	2.42	-3.4	0.927	dd
4	190628K2_4	400	1.50	NO	37.97	0.995	4.27e6	1.08e6	411	2.7	0.986	dd
5	190628K2_5	1000	1.50	NO	37.97	0.995	1.14e7	1.13e6	1040	4.4	1.00	dd
6	190628K2_6	50.0	1.54	NO	37.97	0.996	4.56e5	9.49e5	50.1	0.1	0.961	dd

**Compound name: PCB-90/101**

Response Factor: 0.943869  
 RRF SD: 0.0563686, Relative SD: 5.97208  
 Response type: Internal Std ( Ref 187 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.41	NO	38.15	1.000	4.07e3	9.69e5	0.446	-10.9	0.841	MM
2	190628K2_2	2.00	1.53	NO	38.17	1.000	1.76e4	9.17e5	2.03	1.4	0.957	MM

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**Compound name: PCB-90/101**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	190628K2_3	5.00	1.54	NO	38.17	1.000	4.15e4	8.90e5	4.95	-1.0	0.934	db
4	190628K2_4	800	1.52	NO	38.15	1.000	8.52e6	1.08e6	834	4.2	0.984	dd
5	190628K2_5	2000	1.50	NO	38.15	1.000	2.27e7	1.13e6	2120	6.2	1.00	dd
6	190628K2_6	100	1.51	NO	38.15	1.000	8.97e5	9.49e5	100	0.1	0.944	dd

**Compound name: PCB-113**

Response Factor: 1.23044

RRF SD: 0.0526854, Relative SD: 4.28185

Response type: Internal Std ( Ref 187 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.41	NO	38.42	1.007	2.73e3	9.69e5	0.229	-8.4	1.13	MM
2	190628K2_2	1.00	1.50	NO	38.42	1.007	1.16e4	9.17e5	1.03	2.6	1.26	MM
3	190628K2_3	2.50	1.40	NO	38.42	1.007	2.82e4	8.90e5	2.58	3.2	1.27	bd
4	190628K2_4	400	1.51	NO	38.41	1.007	5.40e6	1.08e6	405	1.4	1.25	dd
5	190628K2_5	1000	1.50	NO	38.42	1.007	1.42e7	1.13e6	1020	1.5	1.25	MM
6	190628K2_6	50.0	1.52	NO	38.42	1.007	5.82e5	9.49e5	49.9	-0.3	1.23	dd

**Compound name: PCB-99**

Response Factor: 1.1188

RRF SD: 0.130741, Relative SD: 11.6858

Response type: Internal Std ( Ref 187 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.46	NO	38.51	1.009	2.31e3	9.69e5	0.213	-14.7	0.954	MM
2	190628K2_2	1.00	1.51	NO	38.51	1.009	9.80e3	9.17e5	0.956	-4.4	1.07	MM
3	190628K2_3	2.50	1.48	NO	38.51	1.009	2.27e4	8.90e5	2.29	-8.6	1.02	db
4	190628K2_4	400	1.53	NO	38.51	1.009	5.36e6	1.08e6	442	10.6	1.24	db
5	190628K2_5	1000	1.52	NO	38.51	1.009	1.47e7	1.13e6	1160	16.1	1.30	MM
6	190628K2_6	50.0	1.54	NO	38.51	1.010	5.37e5	9.49e5	50.5	1.1	1.13	db

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-119**

Response Factor: 1.47116

RRF SD: 0.10941, Relative SD: 7.43701

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.75	NO	38.99	0.987	2.77e3	8.42e5	0.224	-10.5	1.32	bd
2	190628K2_2	1.00	1.60	NO	38.99	0.987	1.14e4	8.07e5	0.963	-3.7	1.42	bd
3	190628K2_3	2.50	1.55	NO	38.99	0.987	2.80e4	7.81e5	2.43	-2.7	1.43	bd
4	190628K2_4	400	1.49	NO	38.99	0.987	5.94e6	9.44e5	428	6.9	1.57	bd
5	190628K2_5	1000	1.50	NO	38.99	0.987	1.57e7	9.71e5	1100	9.9	1.62	bd
6	190628K2_6	50.0	1.54	NO	38.97	0.987	6.11e5	8.31e5	50.0	-0.1	1.47	bd

**Compound name: PCB-108/112**

Response Factor: 1.24929

RRF SD: 0.0742553, Relative SD: 5.9438

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.49	NO	39.16	0.992	4.83e3	8.42e5	0.459	-8.1	1.15	dd
2	190628K2_2	2.00	1.53	NO	39.16	0.992	1.97e4	8.07e5	1.95	-2.5	1.22	dd
3	190628K2_3	5.00	1.53	NO	39.16	0.992	4.73e4	7.81e5	4.85	-3.0	1.21	dd
4	190628K2_4	800	1.50	NO	39.14	0.991	9.88e6	9.44e5	838	4.7	1.31	dd
5	190628K2_5	2000	1.50	NO	39.14	0.991	2.63e7	9.71e5	2170	8.5	1.36	dd
6	190628K2_6	100	1.50	NO	39.14	0.991	1.04e6	8.31e5	100	0.5	1.25	dd

**Compound name: PCB-83**

Response Factor: 1.54674

RRF SD: 0.0962831, Relative SD: 6.22492

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.78	NO	39.31	0.995	3.33e3	8.42e5	0.256	2.2	1.58	dd
2	190628K2_2	1.00	1.44	NO	39.33	0.996	1.13e4	8.07e5	0.907	-9.3	1.40	dd

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-83**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	190628K2_3	2.50	1.61	NO	39.33	0.996	2.89e4	7.81e5	2.39	-4.4	1.48	dd
4	190628K2_4	400	1.51	NO	39.31	0.995	6.11e6	9.44e5	419	4.7	1.62	dd
5	190628K2_5	1000	1.50	NO	39.31	0.995	1.62e7	9.71e5	1080	7.7	1.67	dd
6	190628K2_6	50.0	1.50	NO	39.31	0.995	6.37e5	8.31e5	49.5	-0.9	1.53	dd

**Compound name: PCB-97**

Response Factor: 1.07496

RRF SD: 0.0594316, Relative SD: 5.52872

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.65	NO	39.53	1.001	2.30e3	8.42e5	0.254	1.5	1.09	dd
2	190628K2_2	1.00	1.57	NO	39.53	1.001	7.88e3	8.07e5	0.908	-9.2	0.976	dd
3	190628K2_3	2.50	1.53	NO	39.53	1.001	2.05e4	7.81e5	2.44	-2.6	1.05	dd
4	190628K2_4	400	1.51	NO	39.51	1.000	4.23e6	9.44e5	417	4.2	1.12	dd
5	190628K2_5	1000	1.50	NO	39.51	1.000	1.11e7	9.71e5	1060	6.4	1.14	dd
6	190628K2_6	50.0	1.53	NO	39.51	1.000	4.45e5	8.31e5	49.9	-0.3	1.07	dd

**Compound name: PCB-86**

Response Factor: 0.995501

RRF SD: 0.0761026, Relative SD: 7.64465

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.61	NO	39.68	1.005	2.02e3	8.42e5	0.241	-3.7	0.959	dd
2	190628K2_2	1.00	1.45	NO	39.68	1.005	7.62e3	8.07e5	0.948	-5.2	0.944	dd
3	190628K2_3	2.50	1.46	NO	39.68	1.005	1.91e4	7.81e5	2.46	-1.5	0.980	dd
4	190628K2_4	400	1.48	NO	39.68	1.005	4.11e6	9.44e5	438	9.4	1.09	dd
5	190628K2_5	1000	1.49	NO	39.68	1.005	1.06e7	9.71e5	1090	9.5	1.09	dd
6	190628K2_6	50.0	1.51	NO	39.66	1.004	3.79e5	8.31e5	45.8	-8.4	0.911	dd

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-87/117/125**

Response Factor: 1.33244

RRF SD: 0.110411, Relative SD: 8.28641

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.750	1.48	NO	39.81	1.008	7.48e3	8.42e5	0.666	-11.2	1.18	dd
2	190628K2_2	3.00	1.46	NO	39.81	1.008	3.07e4	8.07e5	2.85	-4.9	1.27	dd
3	190628K2_3	7.50	1.53	NO	39.81	1.008	7.47e4	7.81e5	7.17	-4.4	1.27	dd
4	190628K2_4	1200	1.51	NO	39.81	1.008	1.61e7	9.44e5	1280	6.5	1.42	dd
5	190628K2_5	3000	1.51	NO	39.81	1.008	4.31e7	9.71e5	3340	11.2	1.48	dd
6	190628K2_6	150	1.52	NO	39.79	1.008	1.71e6	8.31e5	154	2.7	1.37	dd

**Compound name: PCB-111/115**

Response Factor: 1.60094

RRF SD: 0.126255, Relative SD: 7.88635

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.76	NO	39.96	1.012	6.31e3	8.42e5	0.468	-6.4	1.50	dd
2	190628K2_2	2.00	1.56	NO	39.98	1.012	2.48e4	8.07e5	1.92	-4.2	1.53	dd
3	190628K2_3	5.00	1.52	NO	39.96	1.012	5.96e4	7.81e5	4.77	-4.6	1.53	dd
4	190628K2_4	800	1.50	NO	39.96	1.012	1.31e7	9.44e5	866	8.3	1.73	dd
5	190628K2_5	2000	1.51	NO	39.96	1.012	3.48e7	9.71e5	2240	11.8	1.79	dd
6	190628K2_6	100	1.52	NO	39.96	1.012	1.27e6	8.31e5	95.1	-4.9	1.52	dd

**Compound name: PCB-85/116**

Response Factor: 1.21579

RRF SD: 0.0616726, Relative SD: 5.07265

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.34	NO	40.09	1.015	5.21e3	8.42e5	0.509	1.7	1.24	dd
2	190628K2_2	2.00	1.38	NO	40.09	1.015	1.79e4	8.07e5	1.82	-8.8	1.11	dd

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-85/116**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	5.00	1.54	NO	40.09	1.015	4.61e4	7.81e5	4.86	-2.8	1.18	dd
4	190628K2_4	800	1.51	NO	40.09	1.015	9.34e6	9.44e5	814	1.8	1.24	dd
5	190628K2_5	2000	1.51	NO	40.09	1.015	2.49e7	9.71e5	2110	5.4	1.28	db
6	190628K2_6	100	1.54	NO	40.09	1.015	1.04e6	8.31e5	103	2.7	1.25	dd

**Compound name: PCB-120**

Response Factor: 1.6808

RRF SD: 0.123461, Relative SD: 7.34537

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.33	NO	40.35	1.022	3.30e3	8.42e5	0.233	-6.6	1.57	MM
2	190628K2_2	1.00	1.57	NO	40.35	1.022	1.29e4	8.07e5	0.951	-4.9	1.60	dd
3	190628K2_3	2.50	1.48	NO	40.35	1.022	3.13e4	7.81e5	2.38	-4.6	1.60	dd
4	190628K2_4	400	1.50	NO	40.35	1.022	6.85e6	9.44e5	432	8.1	1.82	dd
5	190628K2_5	1000	1.50	NO	40.35	1.022	1.80e7	9.71e5	1100	10.5	1.86	bd
6	190628K2_6	50.0	1.49	NO	40.35	1.022	6.81e5	8.31e5	48.8	-2.4	1.64	dd

**Compound name: PCB-110**

Response Factor: 1.48569

RRF SD: 0.0734194, Relative SD: 4.94178

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.60	NO	40.50	1.025	2.87e3	8.42e5	0.229	-8.4	1.36	MM
2	190628K2_2	1.00	1.48	NO	40.50	1.025	1.20e4	8.07e5	1.00	-0.0	1.49	db
3	190628K2_3	2.50	1.51	NO	40.50	1.025	2.86e4	7.81e5	2.46	-1.4	1.46	db
4	190628K2_4	400	1.51	NO	40.50	1.025	5.77e6	9.44e5	412	3.0	1.53	db
5	190628K2_5	1000	1.51	NO	40.50	1.025	1.53e7	9.71e5	1060	6.4	1.58	db
6	190628K2_6	50.0	1.52	NO	40.48	1.025	6.20e5	8.31e5	50.3	0.5	1.49	db

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-82**

Response Factor: 0.674454

RRF SD: 0.0425328, Relative SD: 6.30627

Response type: Internal Std ( Ref 189 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.53	NO	41.13	0.976	1.62e3	1.09e6	0.221	-11.6	0.597	MM
2	190628K2_2	1.00	1.45	NO	41.13	0.976	6.86e3	1.04e6	0.978	-2.2	0.660	db
3	190628K2_3	2.50	1.39	NO	41.15	0.976	1.71e4	1.01e6	2.52	0.6	0.679	db
4	190628K2_4	400	1.50	NO	41.13	0.976	3.49e6	1.24e6	419	4.7	0.706	bb
5	190628K2_5	1000	1.52	NO	41.13	0.976	9.13e6	1.28e6	1050	5.3	0.710	db
6	190628K2_6	50.0	1.50	NO	41.13	0.976	3.74e5	1.07e6	51.6	3.1	0.696	bd

**Compound name: PCB-124**

Response Factor: 1.16306

RRF SD: 0.0888184, Relative SD: 7.63659

Response type: Internal Std ( Ref 189 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.59	NO	41.86	0.993	2.84e3	1.09e6	0.224	-10.4	1.04	bd
2	190628K2_2	1.00	1.40	NO	41.86	0.993	1.16e4	1.04e6	0.956	-4.4	1.11	bd
3	190628K2_3	2.50	1.51	NO	41.86	0.993	2.90e4	1.01e6	2.48	-0.7	1.15	bd
4	190628K2_4	400	1.49	NO	41.84	0.993	6.18e6	1.24e6	430	7.5	1.25	bd
5	190628K2_5	1000	1.50	NO	41.84	0.993	1.65e7	1.28e6	1100	10.2	1.28	bd
6	190628K2_6	50.0	1.48	NO	41.84	0.993	6.12e5	1.07e6	49.0	-2.0	1.14	bd

**Compound name: PCB-107/109**

Response Factor: 1.16628

RRF SD: 0.0723123, Relative SD: 6.20027

Response type: Internal Std ( Ref 189 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.57	NO	42.01	0.997	5.97e3	1.09e6	0.470	-5.9	1.10	dd
2	190628K2_2	2.00	1.62	NO	42.01	0.996	2.25e4	1.04e6	1.85	-7.3	1.08	dd



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**Compound name: PCB-107/109**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	190628K2_3	5.00	1.49	NO	42.01	0.996	5.76e4	1.01e6	4.91	-1.8	1.15	dd
4	190628K2_4	800	1.51	NO	41.99	0.996	1.21e7	1.24e6	837	4.6	1.22	dd
5	190628K2_5	2000	1.51	NO	41.99	0.996	3.26e7	1.28e6	2170	8.7	1.27	dd
6	190628K2_6	100	1.51	NO	41.99	0.997	1.28e6	1.07e6	102	1.8	1.19	dd

**Compound name: PCB-123**

Response Factor: 1.04116

RRF SD: 0.0529506, Relative SD: 5.08575

Response type: Internal Std ( Ref 189 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.34	NO	42.17	1.000	2.82e3	1.09e6	0.249	-0.6	1.04	MM
2	190628K2_2	1.00	1.49	NO	42.17	1.000	9.92e3	1.04e6	0.916	-8.4	0.954	dd
3	190628K2_3	2.50	1.52	NO	42.17	1.000	2.55e4	1.01e6	2.43	-2.6	1.01	dd
4	190628K2_4	400	1.52	NO	42.17	1.000	5.33e6	1.24e6	414	3.5	1.08	dd
5	190628K2_5	1000	1.50	NO	42.17	1.000	1.42e7	1.28e6	1060	5.9	1.10	dd
6	190628K2_6	50.0	1.50	NO	42.15	1.000	5.71e5	1.07e6	51.0	2.1	1.06	dd

**Compound name: PCB-106/118**

Response Factor: 1.06999

RRF SD: 0.0476503, Relative SD: 4.45333

Response type: Internal Std ( Ref 190 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.59	NO	42.40	1.001	5.61e3	1.14e6	0.459	-8.3	0.982	db
2	190628K2_2	2.00	1.41	NO	42.38	1.001	2.32e4	1.09e6	1.98	-1.0	1.06	MM
3	190628K2_3	5.00	1.52	NO	42.38	1.001	5.63e4	1.04e6	5.04	0.9	1.08	MM
4	190628K2_4	800	1.52	NO	42.38	1.001	1.17e7	1.35e6	814	1.8	1.09	MM
5	190628K2_5	2000	1.51	NO	42.38	1.001	3.10e7	1.38e6	2090	4.7	1.12	MM
6	190628K2_6	100	1.52	NO	42.38	1.001	1.22e6	1.12e6	102	1.9	1.09	MM

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**Compound name: PCB-114**

Response Factor: 1.16158  
 RRF SD: 0.0858823, Relative SD: 7.39357  
 Response type: Internal Std ( Ref 191 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.49	NO	43.03	1.000	2.49e3	9.51e5	0.225	-10.0	1.05	bd
2	190628K2_2	1.00	1.57	NO	43.03	1.000	1.04e4	9.12e5	0.977	-2.3	1.13	MM
3	190628K2_3	2.50	1.60	NO	43.03	1.000	2.47e4	8.94e5	2.38	-4.6	1.11	MM
4	190628K2_4	400	1.57	NO	43.03	1.000	5.61e6	1.12e6	431	7.7	1.25	MM
5	190628K2_5	1000	1.57	NO	43.03	1.000	1.50e7	1.18e6	1090	9.4	1.27	MM
6	190628K2_6	50.0	1.55	NO	43.03	1.000	5.54e5	9.55e5	49.9	-0.2	1.16	MM

**Compound name: PCB-122**

Response Factor: 0.972565  
 RRF SD: 0.0815851, Relative SD: 8.38865  
 Response type: Internal Std ( Ref 191 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.43	NO	43.17	1.003	1.98e3	9.51e5	0.215	-14.1	0.835	dd
2	190628K2_2	1.00	1.52	NO	43.19	1.004	8.47e3	9.12e5	0.955	-4.5	0.929	MM
3	190628K2_3	2.50	1.47	NO	43.19	1.004	2.16e4	8.94e5	2.48	-0.6	0.967	MM
4	190628K2_4	400	1.56	NO	43.17	1.003	4.57e6	1.12e6	419	4.8	1.02	MM
5	190628K2_5	1000	1.57	NO	43.17	1.003	1.22e7	1.18e6	1060	5.9	1.03	MM
6	190628K2_6	50.0	1.58	NO	43.17	1.003	5.04e5	9.55e5	54.3	8.6	1.06	MM

**Compound name: PCB-105**

Response Factor: 1.10086  
 RRF SD: 0.0624074, Relative SD: 5.66896  
 Response type: Internal Std ( Ref 192 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.42	NO	43.93	1.000	2.69e3	1.01e6	0.242	-3.3	1.06	MM
2	190628K2_2	1.00	1.51	NO	43.93	1.000	9.88e3	9.63e5	0.932	-6.8	1.03	bd

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**Compound name: PCB-105**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	2.50	1.57	NO	43.93	1.000	2.45e4	9.24e5	2.41	-3.7	1.06	dd
4	190628K2_4	400	1.56	NO	43.92	1.000	5.32e6	1.15e6	420	5.1	1.16	bd
5	190628K2_5	1000	1.57	NO	43.93	1.000	1.43e7	1.21e6	1080	7.9	1.19	bd
6	190628K2_6	50.0	1.57	NO	43.93	1.000	5.59e5	1.01e6	50.4	0.8	1.11	bd

**Compound name: PCB-127**

Response Factor: 1.10828

RRF SD: 0.0850256, Relative SD: 7.67188

Response type: Internal Std ( Ref 193 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.51	NO	44.29	1.001	2.53e3	1.03e6	0.222	-11.2	0.984	db
2	190628K2_2	1.00	1.68	NO	44.29	1.000	1.05e4	1.00e6	0.943	-5.7	1.05	db
3	190628K2_3	2.50	1.51	NO	44.29	1.000	2.64e4	9.66e5	2.47	-1.3	1.09	db
4	190628K2_4	400	1.58	NO	44.27	1.000	5.52e6	1.16e6	428	6.9	1.19	db
5	190628K2_5	1000	1.58	NO	44.27	1.000	1.47e7	1.22e6	1090	9.0	1.21	db
6	190628K2_6	50.0	1.58	NO	44.27	1.000	5.84e5	1.03e6	51.2	2.3	1.13	db

**Compound name: PCB-126**

Response Factor: 1.21258

RRF SD: 0.0924719, Relative SD: 7.62603

Response type: Internal Std ( Ref 194 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.41	NO	46.24	1.000	2.55e3	9.10e5	0.231	-7.8	1.12	MM
2	190628K2_2	1.00	1.62	NO	46.24	1.000	9.65e3	8.64e5	0.921	-7.9	1.12	MM
3	190628K2_3	2.50	1.58	NO	46.24	1.000	2.48e4	8.49e5	2.41	-3.6	1.17	db
4	190628K2_4	400	1.57	NO	46.24	1.000	5.51e6	1.06e6	428	7.1	1.30	db
5	190628K2_5	1000	1.57	NO	46.24	1.000	1.48e7	1.11e6	1100	10.0	1.33	db
6	190628K2_6	50.0	1.59	NO	46.24	1.000	5.71e5	9.21e5	51.1	2.2	1.24	db

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-155**

Response Factor: 0.873733

RRF SD: 0.0386534, Relative SD: 4.42393

Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.23	NO	37.69	1.000	2.65e3	1.26e6	0.241	-3.6	0.842	bb
2	190628K2_2	1.00	1.29	NO	37.71	1.001	1.03e4	1.20e6	0.982	-1.8	0.858	bb
3	190628K2_3	2.50	1.37	NO	37.71	1.001	2.42e4	1.15e6	2.41	-3.5	0.843	bb
4	190628K2_4	400	1.26	NO	37.69	1.000	4.83e6	1.32e6	419	4.7	0.915	bb
5	190628K2_5	1000	1.25	NO	37.69	1.000	1.26e7	1.36e6	1060	6.5	0.930	bb
6	190628K2_6	50.0	1.30	NO	37.69	1.000	5.04e5	1.18e6	48.9	-2.3	0.854	bb

**Compound name: PCB-150**

Response Factor: 0.880705

RRF SD: 0.0753257, Relative SD: 8.55289

Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.10	NO	38.99	1.035	2.47e3	1.26e6	0.223	-10.9	0.785	MM
2	190628K2_2	1.00	1.24	NO	39.01	1.036	9.96e3	1.20e6	0.940	-6.0	0.828	bb
3	190628K2_3	2.50	1.30	NO	39.01	1.036	2.47e4	1.15e6	2.43	-2.7	0.857	bb
4	190628K2_4	400	1.25	NO	38.99	1.035	5.09e6	1.32e6	438	9.6	0.965	bb
5	190628K2_5	1000	1.25	NO	39.01	1.036	1.32e7	1.36e6	1110	10.6	0.974	bb
6	190628K2_6	50.0	1.25	NO	38.99	1.035	5.16e5	1.18e6	49.7	-0.6	0.875	bb

**Compound name: PCB-152**

Response Factor: 1.00442

RRF SD: 0.0676909, Relative SD: 6.73928

Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.28	NO	39.49	1.048	2.96e3	1.26e6	0.234	-6.3	0.941	bb
2	190628K2_2	1.00	1.18	NO	39.49	1.048	1.13e4	1.20e6	0.938	-6.2	0.942	bb

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**Compound name: PCB-152**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	190628K2_3	2.50	1.18	NO	39.49	1.048	2.76e4	1.15e6	2.39	-4.5	0.959	bb
4	190628K2_4	400	1.27	NO	39.49	1.048	5.68e6	1.32e6	429	7.3	1.08	bb
5	190628K2_5	1000	1.25	NO	39.49	1.048	1.48e7	1.36e6	1090	8.6	1.09	bb
6	190628K2_6	50.0	1.27	NO	39.49	1.048	5.99e5	1.18e6	50.6	1.2	1.02	bb

**Compound name: PCB-145**

Response Factor: 0.999687

RRF SD: 0.0727756, Relative SD: 7.27984

Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.33	NO	39.96	1.061	3.03e3	1.26e6	0.241	-3.7	0.963	bb
2	190628K2_2	1.00	1.34	NO	39.96	1.061	1.11e4	1.20e6	0.925	-7.5	0.925	bb
3	190628K2_3	2.50	1.25	NO	39.96	1.061	2.71e4	1.15e6	2.36	-5.6	0.944	bb
4	190628K2_4	400	1.25	NO	39.96	1.061	5.73e6	1.32e6	435	8.7	1.09	bb
5	190628K2_5	1000	1.26	NO	39.96	1.061	1.48e7	1.36e6	1090	9.3	1.09	bb
6	190628K2_6	50.0	1.28	NO	39.94	1.060	5.83e5	1.18e6	49.4	-1.2	0.988	bb

**Compound name: PCB-136**

Response Factor: 0.843264

RRF SD: 0.0815883, Relative SD: 9.67531

Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.18	NO	40.29	1.070	2.35e3	1.26e6	0.221	-11.4	0.747	bd
2	190628K2_2	1.00	1.25	NO	40.29	1.070	9.38e3	1.20e6	0.924	-7.6	0.779	bd
3	190628K2_3	2.50	1.30	NO	40.29	1.070	2.39e4	1.15e6	2.47	-1.3	0.832	bd
4	190628K2_4	400	1.25	NO	40.29	1.070	4.93e6	1.32e6	443	10.9	0.935	bd
5	190628K2_5	1000	1.24	NO	40.29	1.070	1.29e7	1.36e6	1120	12.4	0.947	bd
6	190628K2_6	50.0	1.24	NO	40.28	1.069	4.83e5	1.18e6	48.6	-2.9	0.819	bd

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-148**

Response Factor: 0.693324

RRF SD: 0.0389325, Relative SD: 5.61534

Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.07	NO	40.41	1.073	2.10e3	1.26e6	0.241	-3.6	0.669	db
2	190628K2_2	1.00	1.30	NO	40.41	1.073	7.64e3	1.20e6	0.916	-8.4	0.635	db
3	190628K2_3	2.50	1.23	NO	40.41	1.073	1.96e4	1.15e6	2.45	-1.9	0.680	db
4	190628K2_4	400	1.27	NO	40.40	1.073	3.82e6	1.32e6	418	4.5	0.725	db
5	190628K2_5	1000	1.28	NO	40.41	1.073	1.00e7	1.36e6	1060	6.4	0.738	db
6	190628K2_6	50.0	1.30	NO	40.39	1.072	4.21e5	1.18e6	51.5	3.0	0.714	db

**Compound name: PCB-154**

Response Factor: 0.723934

RRF SD: 0.0397493, Relative SD: 5.49074

Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.33	NO	40.91	1.086	2.10e3	1.26e6	0.231	-7.6	0.669	bb
2	190628K2_2	1.00	1.15	NO	40.91	1.086	8.35e3	1.20e6	0.958	-4.2	0.694	bb
3	190628K2_3	2.50	1.34	NO	40.91	1.086	2.06e4	1.15e6	2.47	-1.2	0.715	bb
4	190628K2_4	400	1.25	NO	40.91	1.086	4.04e6	1.32e6	424	5.9	0.767	bb
5	190628K2_5	1000	1.25	NO	40.91	1.086	1.04e7	1.36e6	1060	6.1	0.768	bb
6	190628K2_6	50.0	1.25	NO	40.91	1.086	4.31e5	1.18e6	50.5	1.0	0.731	bb

**Compound name: PCB-151**

Response Factor: 0.632039

RRF SD: 0.0345567, Relative SD: 5.46749

Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.31	NO	41.58	1.104	2.01e3	1.26e6	0.252	0.8	0.637	bd
2	190628K2_2	1.00	1.36	NO	41.58	1.104	6.97e3	1.20e6	0.917	-8.3	0.579	bd

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**Compound name: PCB-151**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	190628K2_3	2.50	1.28	NO	41.58	1.104	1.73e4	1.15e6	2.38	-4.7	0.602	bd
4	190628K2_4	400	1.25	NO	41.58	1.104	3.47e6	1.32e6	417	4.2	0.659	bd
5	190628K2_5	1000	1.25	NO	41.58	1.104	9.08e6	1.36e6	1060	5.9	0.669	bd
6	190628K2_6	50.0	1.27	NO	41.56	1.103	3.81e5	1.18e6	51.1	2.1	0.645	bd

**Compound name: PCB-135**

Response Factor: 0.715935

RRF SD: 0.0574656, Relative SD: 8.02666

Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.23	NO	41.80	1.110	2.07e3	1.26e6	0.230	-7.9	0.659	dd
2	190628K2_2	1.00	1.18	NO	41.80	1.110	8.09e3	1.20e6	0.939	-6.1	0.672	dd
3	190628K2_3	2.50	1.20	NO	41.80	1.110	1.98e4	1.15e6	2.40	-3.8	0.689	dd
4	190628K2_4	400	1.24	NO	41.80	1.110	4.09e6	1.32e6	433	8.3	0.776	dd
5	190628K2_5	1000	1.26	NO	41.80	1.110	1.08e7	1.36e6	1120	11.6	0.799	dd
6	190628K2_6	50.0	1.25	NO	41.78	1.109	4.13e5	1.18e6	49.0	-2.1	0.701	dd

**Compound name: PCB-144**

Response Factor: 0.666578

RRF SD: 0.0279019, Relative SD: 4.18584

Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.38	NO	41.91	1.113	2.12e3	1.26e6	0.253	1.1	0.674	MM
2	190628K2_2	1.00	1.39	NO	41.91	1.113	7.51e3	1.20e6	0.937	-6.3	0.624	dd
3	190628K2_3	2.50	1.24	NO	41.91	1.113	1.86e4	1.15e6	2.42	-3.2	0.645	dd
4	190628K2_4	400	1.26	NO	41.91	1.113	3.52e6	1.32e6	400	0.1	0.667	dd
5	190628K2_5	1000	1.29	NO	41.91	1.113	9.35e6	1.36e6	1030	3.4	0.689	dd
6	190628K2_6	50.0	1.25	NO	41.90	1.112	4.13e5	1.18e6	52.5	5.0	0.700	dd

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**Compound name: PCB-147**

Response Factor: 0.660977

RRF SD: 0.0728265, Relative SD: 11.018

Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.25	NO	42.04	1.116	1.90e3	1.26e6	0.229	-8.6	0.604	db
2	190628K2_2	1.00	1.24	NO	42.04	1.116	7.38e3	1.20e6	0.928	-7.2	0.613	dd
3	190628K2_3	2.50	1.24	NO	42.04	1.116	1.68e4	1.15e6	2.20	-11.9	0.582	db
4	190628K2_4	400	1.26	NO	42.04	1.116	3.86e6	1.32e6	443	10.8	0.732	db
5	190628K2_5	1000	1.26	NO	42.04	1.116	1.03e7	1.36e6	1150	14.8	0.759	db
6	190628K2_6	50.0	1.29	NO	42.04	1.116	3.98e5	1.18e6	51.0	2.1	0.675	db

**Compound name: PCB-139/149**

Response Factor: 0.738277

RRF SD: 0.0604362, Relative SD: 8.18612

Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.30	NO	42.32	1.123	4.21e3	1.26e6	0.453	-9.3	0.669	bd
2	190628K2_2	2.00	1.25	NO	42.32	1.123	1.65e4	1.20e6	1.86	-7.0	0.687	dd
3	190628K2_3	5.00	1.22	NO	42.32	1.123	4.07e4	1.15e6	4.79	-4.1	0.708	bd
4	190628K2_4	800	1.25	NO	42.32	1.123	8.37e6	1.32e6	860	7.5	0.794	bd
5	190628K2_5	2000	1.24	NO	42.32	1.123	2.23e7	1.36e6	2220	11.1	0.820	bd
6	190628K2_6	100	1.25	NO	42.30	1.123	8.87e5	1.18e6	102	1.8	0.752	bd

**Compound name: PCB-140**

Response Factor: 0.627323

RRF SD: 0.0587009, Relative SD: 9.35736

Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.40	NO	42.51	1.128	1.65e3	1.26e6	0.209	-16.3	0.525	MM
2	190628K2_2	1.00	1.24	NO	42.51	1.128	7.28e3	1.20e6	0.964	-3.6	0.605	MM



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**Compound name: PCB-140**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	190628K2_3	2.50	1.26	NO	42.51	1.128	1.83e4	1.15e6	2.53	1.3	0.636	db
4	190628K2_4	400	1.27	NO	42.51	1.128	3.51e6	1.32e6	425	6.1	0.666	db
5	190628K2_5	1000	1.25	NO	42.51	1.128	9.44e6	1.36e6	1110	10.9	0.696	db
6	190628K2_6	50.0	1.26	NO	42.51	1.128	3.75e5	1.18e6	50.8	1.5	0.637	db

**Compound name: PCB-134/143**

Response Factor: 0.733336

RRF SD: 0.0649184, Relative SD: 8.85247

Response type: Internal Std ( Ref 196 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.19	NO	42.96	0.975	2.92e3	9.27e5	0.430	-14.0	0.630	bb
2	190628K2_2	2.00	1.25	NO	42.96	0.975	1.27e4	8.81e5	1.96	-1.8	0.720	bb
3	190628K2_3	5.00	1.27	NO	42.96	0.975	3.02e4	8.55e5	4.82	-3.6	0.707	bd
4	190628K2_4	800	1.20	NO	42.96	0.975	6.36e6	1.01e6	858	7.3	0.787	bb
5	190628K2_5	2000	1.20	NO	42.96	0.975	1.69e7	1.04e6	2220	11.2	0.815	bb
6	190628K2_6	100	1.20	NO	42.96	0.975	6.70e5	9.04e5	101	1.0	0.741	bb

**Compound name: PCB-131/133**

Response Factor: 0.790167

RRF SD: 0.0625609, Relative SD: 7.91744

Response type: Internal Std ( Ref 196 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.39	NO	43.28	0.982	3.44e3	9.27e5	0.469	-6.1	0.742	bd
2	190628K2_2	2.00	1.13	NO	43.28	0.982	1.29e4	8.81e5	1.85	-7.3	0.732	bd
3	190628K2_3	5.00	1.18	NO	43.28	0.982	3.19e4	8.55e5	4.73	-5.4	0.747	dd
4	190628K2_4	800	1.20	NO	43.26	0.982	6.82e6	1.01e6	854	6.7	0.843	bd
5	190628K2_5	2000	1.20	NO	43.26	0.982	1.84e7	1.04e6	2240	12.1	0.886	bd
6	190628K2_6	100	1.21	NO	43.26	0.982	7.15e5	9.04e5	100	0.0	0.791	bd

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**Compound name: PCB-142**

Response Factor: 0.70805

RRF SD: 0.0486153, Relative SD: 6.86609

Response type: Internal Std ( Ref 196 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.21	NO	43.43	0.985	1.49e3	9.27e5	0.227	-9.1	0.643	dd
2	190628K2_2	1.00	1.25	NO	43.43	0.985	5.88e3	8.81e5	0.943	-5.7	0.668	dd
3	190628K2_3	2.50	1.25	NO	43.43	0.985	1.50e4	8.55e5	2.47	-1.1	0.700	dd
4	190628K2_4	400	1.21	NO	43.43	0.985	3.02e6	1.01e6	422	5.6	0.748	dd
5	190628K2_5	1000	1.20	NO	43.43	0.985	8.03e6	1.04e6	1090	9.3	0.774	dd
6	190628K2_6	50.0	1.18	NO	43.43	0.986	3.23e5	9.04e5	50.5	1.0	0.715	dd

**Compound name: PCB-146/165**

Response Factor: 0.959441

RRF SD: 0.0771456, Relative SD: 8.04068

Response type: Internal Std ( Ref 196 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.06	NO	43.66	0.990	4.07e3	9.27e5	0.458	-8.5	0.878	dd
2	190628K2_2	2.00	1.28	NO	43.66	0.991	1.57e4	8.81e5	1.86	-7.2	0.890	dd
3	190628K2_3	5.00	1.19	NO	43.66	0.991	3.90e4	8.55e5	4.76	-4.8	0.914	dd
4	190628K2_4	800	1.18	NO	43.66	0.990	8.31e6	1.01e6	857	7.1	1.03	dd
5	190628K2_5	2000	1.19	NO	43.66	0.990	2.21e7	1.04e6	2220	11.0	1.06	dd
6	190628K2_6	100	1.20	NO	43.66	0.991	8.88e5	9.04e5	102	2.4	0.982	dd

**Compound name: PCB-132/161**

Response Factor: 0.974412

RRF SD: 0.073899, Relative SD: 7.58396

Response type: Internal Std ( Ref 196 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.28	NO	43.91	0.996	4.19e3	9.27e5	0.464	-7.2	0.904	dd
2	190628K2_2	2.00	1.15	NO	43.91	0.996	1.57e4	8.81e5	1.83	-8.6	0.891	dd

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-132/161**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	5.00	1.24	NO	43.91	0.996	4.02e4	8.55e5	4.83	-3.4	0.941	dd
4	190628K2_4	800	1.20	NO	43.91	0.996	8.41e6	1.01e6	854	6.7	1.04	dd
5	190628K2_5	2000	1.20	NO	43.91	0.996	2.22e7	1.04e6	2200	9.9	1.07	dd
6	190628K2_6	100	1.19	NO	43.89	0.996	9.04e5	9.04e5	103	2.6	1.00	dd

**Compound name: PCB-153**

Response Factor: 1.01206

RRF SD: 0.0508241, Relative SD: 5.02183

Response type: Internal Std ( Ref 196 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.09	NO	44.10	1.000	2.16e3	9.27e5	0.230	-8.1	0.931	dd
2	190628K2_2	1.00	1.26	NO	44.10	1.000	8.66e3	8.81e5	0.972	-2.8	0.983	dd
3	190628K2_3	2.50	1.17	NO	44.10	1.000	2.18e4	8.55e5	2.51	0.6	1.02	dd
4	190628K2_4	400	1.19	NO	44.10	1.000	4.25e6	1.01e6	415	3.9	1.05	dd
5	190628K2_5	1000	1.21	NO	44.10	1.000	1.12e7	1.04e6	1060	6.1	1.07	dd
6	190628K2_6	50.0	1.21	NO	44.08	1.000	4.59e5	9.04e5	50.1	0.3	1.01	dd

**Compound name: PCB-168**

Response Factor: 1.01943

RRF SD: 0.0750741, Relative SD: 7.3643

Response type: Internal Std ( Ref 196 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.13	NO	44.32	1.006	2.20e3	9.27e5	0.233	-6.7	0.951	db
2	190628K2_2	1.00	1.19	NO	44.32	1.006	8.43e3	8.81e5	0.938	-6.2	0.956	db
3	190628K2_3	2.50	1.17	NO	44.32	1.006	2.06e4	8.55e5	2.37	-5.3	0.966	db
4	190628K2_4	400	1.19	NO	44.31	1.005	4.39e6	1.01e6	426	6.4	1.09	db
5	190628K2_5	1000	1.19	NO	44.31	1.005	1.17e7	1.04e6	1110	10.8	1.13	db
6	190628K2_6	50.0	1.21	NO	44.31	1.006	4.65e5	9.04e5	50.5	0.9	1.03	db

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-141**

Response Factor: 0.967037

RRF SD: 0.0609512, Relative SD: 6.30288

Response type: Internal Std ( Ref 197 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.24	NO	44.87	1.001	1.69e3	7.44e5	0.235	-6.2	0.907	MM
2	190628K2_2	1.00	1.13	NO	44.85	1.000	6.48e3	7.19e5	0.932	-6.8	0.901	bd
3	190628K2_3	2.50	1.14	NO	44.87	1.001	1.59e4	6.77e5	2.43	-2.8	0.940	MM
4	190628K2_4	400	1.19	NO	44.85	1.000	3.31e6	8.10e5	422	5.5	1.02	bd
5	190628K2_5	1000	1.19	NO	44.85	1.000	8.62e6	8.22e5	1090	8.5	1.05	MM
6	190628K2_6	50.0	1.21	NO	44.85	1.000	3.62e5	7.35e5	50.9	1.7	0.984	bd

**Compound name: PCB-137**

Response Factor: 0.987216

RRF SD: 0.0992612, Relative SD: 10.0547

Response type: Internal Std ( Ref 197 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.18	NO	45.25	1.009	1.71e3	7.44e5	0.233	-7.0	0.918	bd
2	190628K2_2	1.00	1.23	NO	45.25	1.009	6.29e3	7.19e5	0.887	-11.3	0.875	bd
3	190628K2_3	2.50	1.17	NO	45.25	1.009	1.62e4	6.77e5	2.43	-2.9	0.959	bd
4	190628K2_4	400	1.19	NO	45.25	1.009	3.52e6	8.10e5	440	10.1	1.09	bd
5	190628K2_5	1000	1.19	NO	45.25	1.009	9.28e6	8.22e5	1140	14.4	1.13	bd
6	190628K2_6	50.0	1.17	NO	45.25	1.009	3.51e5	7.35e5	48.4	-3.3	0.955	bd

**Compound name: PCB-130**

Response Factor: 0.840114

RRF SD: 0.0861451, Relative SD: 10.254

Response type: Internal Std ( Ref 197 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.28	NO	45.37	1.012	1.27e3	7.44e5	0.204	-18.4	0.685	MM
2	190628K2_2	1.00	1.29	NO	45.37	1.012	5.85e3	7.19e5	0.969	-3.1	0.814	MM

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**Compound name: PCB-130**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	190628K2_3	2.50	1.24	NO	45.37	1.012	1.41e4	6.77e5	2.48	-0.6	0.835	MM
4	190628K2_4	400	1.21	NO	45.35	1.011	2.86e6	8.10e5	420	5.1	0.883	MM
5	190628K2_5	1000	1.20	NO	45.37	1.012	7.59e6	8.22e5	1100	9.9	0.924	MM
6	190628K2_6	50.0	1.19	NO	45.35	1.011	3.31e5	7.35e5	53.6	7.1	0.900	MM

**Compound name: PCB-138/163/164**

Response Factor: 1.2264

RRF SD: 0.0988535, Relative SD: 8.06047

Response type: Internal Std ( Ref 198 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.750	1.14	NO	45.74	1.001	6.33e3	7.59e5	0.680	-9.3	1.11	bd
2	190628K2_2	3.00	1.18	NO	45.76	1.001	2.49e4	7.22e5	2.82	-6.1	1.15	bd
3	190628K2_3	7.50	1.17	NO	45.76	1.001	6.23e4	7.06e5	7.20	-4.0	1.18	bd
4	190628K2_4	1200	1.20	NO	45.74	1.001	1.33e7	8.40e5	1290	7.7	1.32	bd
5	190628K2_5	3000	1.20	NO	45.74	1.001	3.57e7	8.73e5	3340	11.2	1.36	bd
6	190628K2_6	150	1.19	NO	45.74	1.001	1.41e6	7.59e5	151	0.6	1.23	bd

**Compound name: PCB-158/160**

Response Factor: 1.17823

RRF SD: 0.0898972, Relative SD: 7.62985

Response type: Internal Std ( Ref 198 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.13	NO	45.99	1.006	3.96e3	7.59e5	0.443	-11.3	1.04	dd
2	190628K2_2	2.00	1.17	NO	46.01	1.007	1.69e4	7.22e5	1.99	-0.6	1.17	dd
3	190628K2_3	5.00	1.20	NO	46.01	1.007	3.93e4	7.06e5	4.72	-5.5	1.11	dd
4	190628K2_4	800	1.20	NO	45.99	1.006	8.48e6	8.40e5	857	7.1	1.26	dd
5	190628K2_5	2000	1.20	NO	45.99	1.006	2.24e7	8.73e5	2180	8.8	1.28	dd
6	190628K2_6	100	1.21	NO	45.99	1.007	9.08e5	7.59e5	102	1.5	1.20	dd

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-129**

Response Factor: 0.819299  
 RRF SD: 0.0425482, Relative SD: 5.19325  
 Response type: Internal Std ( Ref 198 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.35	NO	46.24	1.012	1.53e3	7.59e5	0.245	-1.9	0.804	MM
2	190628K2_2	1.00	1.32	NO	46.26	1.012	5.61e3	7.22e5	0.948	-5.2	0.777	db
3	190628K2_3	2.50	1.16	NO	46.26	1.012	1.39e4	7.06e5	2.41	-3.7	0.789	db
4	190628K2_4	400	1.20	NO	46.24	1.012	2.91e6	8.40e5	423	5.6	0.866	db
5	190628K2_5	1000	1.20	NO	46.24	1.012	7.68e6	8.73e5	1070	7.4	0.880	db
6	190628K2_6	50.0	1.20	NO	46.24	1.012	3.04e5	7.59e5	48.9	-2.3	0.801	db

**Compound name: PCB-166**

Response Factor: 1.06912  
 RRF SD: 0.0702558, Relative SD: 6.57138  
 Response type: Internal Std ( Ref 199 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.31	NO	46.71	0.993	2.23e3	9.24e5	0.225	-9.9	0.964	MM
2	190628K2_2	1.00	1.31	NO	46.71	0.993	8.74e3	8.65e5	0.945	-5.5	1.01	MM
3	190628K2_3	2.50	1.17	NO	46.73	0.994	2.27e4	8.45e5	2.51	0.5	1.07	MM
4	190628K2_4	400	1.19	NO	46.71	0.993	4.64e6	1.03e6	423	5.7	1.13	MM
5	190628K2_5	1000	1.18	NO	46.71	0.993	1.24e7	1.08e6	1070	7.2	1.15	MM
6	190628K2_6	50.0	1.20	NO	46.71	0.993	5.04e5	9.24e5	51.0	2.0	1.09	MM

**Compound name: PCB-159**

Response Factor: 1.11915  
 RRF SD: 0.0803637, Relative SD: 7.18078  
 Response type: Internal Std ( Ref 199 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.19	NO	47.05	1.000	2.32e3	9.24e5	0.225	-10.2	1.01	MM
2	190628K2_2	1.00	1.21	NO	47.07	1.001	9.40e3	8.65e5	0.972	-2.8	1.09	MM

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**Compound name: PCB-159**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	2.50	1.21	NO	47.05	1.000	2.35e4	8.45e5	2.49	-0.4	1.11	MM
4	190628K2_4	400	1.17	NO	47.05	1.000	4.94e6	1.03e6	430	7.5	1.20	MM
5	190628K2_5	1000	1.20	NO	47.05	1.000	1.32e7	1.08e6	1090	9.0	1.22	MM
6	190628K2_6	50.0	1.20	NO	47.05	1.000	5.02e5	9.24e5	48.5	-3.0	1.09	MM

**Compound name: PCB-128/162**

Response Factor: 0.850603

RRF SD: 0.0565302, Relative SD: 6.6459

Response type: Internal Std ( Ref 199 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	1.38	NO	47.35	1.007	3.53e3	9.24e5	0.450	-10.0	0.765	MM
2	190628K2_2	2.00	1.25	NO	47.35	1.007	1.43e4	8.65e5	1.94	-2.8	0.827	MM
3	190628K2_3	5.00	1.18	NO	47.35	1.007	3.50e4	8.45e5	4.86	-2.7	0.828	MM
4	190628K2_4	800	1.19	NO	47.35	1.007	7.45e6	1.03e6	853	6.6	0.907	MM
5	190628K2_5	2000	1.20	NO	47.35	1.007	1.98e7	1.08e6	2150	7.7	0.917	MM
6	190628K2_6	100	1.16	NO	47.34	1.006	7.96e5	9.24e5	101	1.2	0.861	MM

**Compound name: PCB-167**

Response Factor: 1.04252

RRF SD: 0.0508137, Relative SD: 4.87414

Response type: Internal Std ( Ref 200 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.15	NO	47.75	1.000	2.26e3	9.22e5	0.235	-6.0	0.980	bb
2	190628K2_2	1.00	1.27	NO	47.75	1.000	8.71e3	8.60e5	0.972	-2.8	1.01	bb
3	190628K2_3	2.50	1.14	NO	47.75	1.000	2.16e4	8.45e5	2.45	-2.0	1.02	bb
4	190628K2_4	400	1.19	NO	47.75	1.000	4.42e6	1.01e6	419	4.8	1.09	bb
5	190628K2_5	1000	1.20	NO	47.75	1.000	1.19e7	1.07e6	1070	6.8	1.11	bb
6	190628K2_6	50.0	1.20	NO	47.75	1.000	4.76e5	9.21e5	49.6	-0.7	1.03	bb

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**Compound name: PCB-156**

Response Factor: 1.05686

RRF SD: 0.0791886, Relative SD: 7.49284

Response type: Internal Std ( Ref 201 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.42	NO	49.10	1.001	2.18e3	8.89e5	0.232	-7.3	0.979	MM
2	190628K2_2	1.00	1.16	NO	49.10	1.000	8.12e3	8.48e5	0.906	-9.4	0.957	dd
3	190628K2_3	2.50	1.24	NO	49.10	1.000	2.13e4	8.22e5	2.45	-1.9	1.04	bd
4	190628K2_4	400	1.20	NO	49.08	1.000	4.55e6	1.01e6	427	6.8	1.13	bb
5	190628K2_5	1000	1.20	NO	49.08	1.000	1.23e7	1.07e6	1090	8.9	1.15	bb
6	190628K2_6	50.0	1.21	NO	49.08	1.000	4.83e5	8.87e5	51.5	3.1	1.09	bd

**Compound name: PCB-157**

Response Factor: 0.977804

RRF SD: 0.0504139, Relative SD: 5.15583

Response type: Internal Std ( Ref 202 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.40	NO	49.36	1.000	2.09e3	9.06e5	0.236	-5.5	0.924	bd
2	190628K2_2	1.00	1.25	NO	49.36	1.000	7.73e3	8.34e5	0.947	-5.3	0.926	dd
3	190628K2_3	2.50	1.20	NO	49.36	1.000	2.01e4	8.40e5	2.45	-1.9	0.959	dd
4	190628K2_4	400	1.21	NO	49.36	1.000	4.15e6	1.01e6	420	4.9	1.03	bd
5	190628K2_5	1000	1.19	NO	49.36	1.000	1.11e7	1.07e6	1070	6.7	1.04	bd
6	190628K2_6	50.0	1.21	NO	49.36	1.000	4.45e5	9.01e5	50.6	1.1	0.989	dd

**Compound name: PCB-169**

Response Factor: 1.10708

RRF SD: 0.0633689, Relative SD: 5.72399

Response type: Internal Std ( Ref 203 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.19	NO	51.64	1.000	2.38e3	8.71e5	0.247	-1.2	1.09	bb
2	190628K2_2	1.00	1.27	NO	51.64	1.000	8.19e3	8.00e5	0.926	-7.4	1.02	bb



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**Compound name: PCB-169**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	190628K2_3	2.50	1.15	NO	51.64	1.000	2.10e4	7.92e5	2.39	-4.3	1.06	MM
4	190628K2_4	400	1.21	NO	51.64	1.000	4.54e6	9.82e5	417	4.3	1.15	bb
5	190628K2_5	1000	1.19	NO	51.64	1.000	1.23e7	1.02e6	1080	8.4	1.20	bb
6	190628K2_6	50.0	1.23	NO	51.64	1.000	4.75e5	8.55e5	50.2	0.3	1.11	bb

**Compound name: PCB-188**

Response Factor: 1.19315  
 RRF SD: 0.0897588, Relative SD: 7.52285  
 Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.12	NO	43.72	1.001	2.33e3	9.11e5	0.214	-14.3	1.02	bb
2	190628K2_2	1.00	0.98	NO	43.72	1.000	1.06e4	8.63e5	1.03	2.9	1.23	bb
3	190628K2_3	2.50	1.00	NO	43.72	1.000	2.44e4	8.36e5	2.45	-2.1	1.17	bb
4	190628K2_4	400	1.04	NO	43.72	1.001	5.06e6	1.01e6	420	4.9	1.25	bb
5	190628K2_5	1000	1.04	NO	43.72	1.001	1.34e7	1.06e6	1060	5.9	1.26	bb
6	190628K2_6	50.0	1.04	NO	43.70	1.000	5.37e5	8.78e5	51.3	2.6	1.22	bb

**Compound name: PCB-184**

Response Factor: 1.16671  
 RRF SD: 0.0410641, Relative SD: 3.51965  
 Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.97	NO	44.17	1.011	2.48e3	9.11e5	0.233	-6.8	1.09	bb
2	190628K2_2	1.00	1.07	NO	44.17	1.011	1.00e4	8.63e5	0.997	-0.3	1.16	bb
3	190628K2_3	2.50	1.00	NO	44.17	1.011	2.46e4	8.36e5	2.52	0.7	1.17	bd
4	190628K2_4	400	1.04	NO	44.17	1.011	4.82e6	1.01e6	409	2.2	1.19	bb
5	190628K2_5	1000	1.03	NO	44.17	1.011	1.26e7	1.06e6	1020	1.7	1.19	bb
6	190628K2_6	50.0	1.05	NO	44.17	1.011	5.26e5	8.78e5	51.3	2.6	1.20	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-179**

Response Factor: 1.17611

RRF SD: 0.0248224, Relative SD: 2.11054

Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.09	NO	44.99	1.030	2.62e3	9.11e5	0.244	-2.2	1.15	bb
2	190628K2_2	1.00	1.13	NO	44.99	1.029	1.01e4	8.63e5	0.998	-0.2	1.17	bb
3	190628K2_3	2.50	1.04	NO	44.99	1.029	2.39e4	8.36e5	2.43	-2.7	1.14	bb
4	190628K2_4	400	1.03	NO	44.97	1.030	4.83e6	1.01e6	406	1.5	1.19	bb
5	190628K2_5	1000	1.04	NO	44.99	1.030	1.26e7	1.06e6	1010	1.1	1.19	bb
6	190628K2_6	50.0	1.03	NO	44.97	1.030	5.30e5	8.78e5	51.3	2.6	1.21	bb

**Compound name: PCB-176**

Response Factor: 1.15933

RRF SD: 0.0527895, Relative SD: 4.55344

Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.01	NO	45.46	1.041	2.46e3	9.11e5	0.233	-6.9	1.08	bb
2	190628K2_2	1.00	1.07	NO	45.46	1.040	9.59e3	8.63e5	0.958	-4.2	1.11	bb
3	190628K2_3	2.50	1.03	NO	45.46	1.040	2.44e4	8.36e5	2.52	0.6	1.17	bb
4	190628K2_4	400	1.04	NO	45.46	1.041	4.82e6	1.01e6	411	2.8	1.19	bb
5	190628K2_5	1000	1.04	NO	45.46	1.041	1.27e7	1.06e6	1030	3.4	1.20	bb
6	190628K2_6	50.0	1.05	NO	45.44	1.040	5.31e5	8.78e5	52.1	4.3	1.21	bb

**Compound name: PCB-186**

Response Factor: 1.21797

RRF SD: 0.075789, Relative SD: 6.22255

Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.12	NO	46.08	1.055	2.56e3	9.11e5	0.231	-7.7	1.12	MM
2	190628K2_2	1.00	1.10	NO	46.08	1.055	9.73e3	8.63e5	0.925	-7.5	1.13	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-186**

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3 190628K2_3	2.50	1.08	NO	46.08	1.055	2.54e4	8.36e5	2.50	-0.1	1.22	bb
4 190628K2_4	400	1.04	NO	46.08	1.055	5.14e6	1.01e6	417	4.3	1.27	bb
5 190628K2_5	1000	1.03	NO	46.08	1.055	1.36e7	1.06e6	1050	5.2	1.28	bb
6 190628K2_6	50.0	1.01	NO	46.08	1.055	5.66e5	8.78e5	52.9	5.8	1.29	bb

**Compound name: PCB-178**

Response Factor: 0.830456

RRF SD: 0.0469064, Relative SD: 5.64827

Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1 190628K2_1	0.250	0.92	NO	46.60	1.067	1.68e3	9.11e5	0.222	-11.4	0.736	MM
2 190628K2_2	1.00	1.21	NO	46.60	1.066	7.27e3	8.63e5	1.01	1.4	0.842	MM
3 190628K2_3	2.50	1.00	NO	46.60	1.066	1.78e4	8.36e5	2.56	2.6	0.852	bb
4 190628K2_4	400	1.04	NO	46.60	1.067	3.40e6	1.01e6	405	1.2	0.840	bb
5 190628K2_5	1000	1.04	NO	46.60	1.067	9.03e6	1.06e6	1020	2.5	0.851	bb
6 190628K2_6	50.0	1.03	NO	46.60	1.067	3.78e5	8.78e5	51.9	3.7	0.861	bb

**Compound name: PCB-175**

Response Factor: 0.848562

RRF SD: 0.0513908, Relative SD: 6.05622

Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1 190628K2_1	0.250	1.17	NO	46.96	1.075	1.72e3	9.11e5	0.223	-10.8	0.757	MM
2 190628K2_2	1.00	1.10	NO	46.96	1.075	7.45e3	8.63e5	1.02	1.7	0.863	bd
3 190628K2_3	2.50	1.08	NO	46.96	1.075	1.72e4	8.36e5	2.43	-3.0	0.823	MM
4 190628K2_4	400	1.03	NO	46.96	1.075	3.52e6	1.01e6	410	2.5	0.869	bd
5 190628K2_5	1000	1.03	NO	46.96	1.075	9.34e6	1.06e6	1040	3.7	0.880	bd
6 190628K2_6	50.0	1.02	NO	46.94	1.075	3.95e5	8.78e5	53.0	5.9	0.899	bd

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-182/187**

Response Factor: 0.960034

RRF SD: 0.0466108, Relative SD: 4.85512

Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.500	0.98	NO	47.13	1.079	3.99e3	9.11e5	0.456	-8.8	0.876	db
2	190628K2_2	2.00	1.03	NO	47.15	1.079	1.64e4	8.63e5	1.98	-0.8	0.952	db
3	190628K2_3	5.00	1.05	NO	47.15	1.079	3.98e4	8.36e5	4.96	-0.8	0.952	MM
4	190628K2_4	800	1.03	NO	47.13	1.079	8.00e6	1.01e6	824	3.0	0.989	db
5	190628K2_5	2000	1.02	NO	47.13	1.079	2.14e7	1.06e6	2100	5.0	1.01	db
6	190628K2_6	100	1.04	NO	47.13	1.079	8.63e5	8.78e5	102	2.4	0.983	db

**Compound name: PCB-183**

Response Factor: 0.956525

RRF SD: 0.0371861, Relative SD: 3.88763

Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.07	NO	47.47	1.087	2.14e3	9.11e5	0.246	-1.6	0.941	bb
2	190628K2_2	1.00	0.92	NO	47.47	1.086	7.78e3	8.63e5	0.943	-5.7	0.902	bb
3	190628K2_3	2.50	0.97	NO	47.47	1.086	1.95e4	8.36e5	2.44	-2.5	0.932	bb
4	190628K2_4	400	1.03	NO	47.45	1.086	4.00e6	1.01e6	414	3.4	0.989	bb
5	190628K2_5	1000	1.03	NO	47.45	1.086	1.05e7	1.06e6	1040	3.9	0.993	bb
6	190628K2_6	50.0	1.04	NO	47.45	1.086	4.31e5	8.78e5	51.3	2.6	0.982	bb

**Compound name: PCB-185**

Response Factor: 1.31957

RRF SD: 0.052132, Relative SD: 3.95067

Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.99	NO	48.15	0.955	1.90e3	5.87e5	0.245	-2.0	1.29	MM
2	190628K2_2	1.00	1.04	NO	48.13	0.955	6.71e3	5.46e5	0.932	-6.8	1.23	MM

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**Compound name: PCB-185**

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3 190628K2_3	2.50	1.07	NO	48.15	0.955	1.78e4	5.34e5	2.53	1.2	1.34	bb
4 190628K2_4	400	1.01	NO	48.13	0.955	3.46e6	6.42e5	408	2.0	1.35	bb
5 190628K2_5	1000	1.04	NO	48.13	0.955	9.14e6	6.63e5	1050	4.5	1.38	bb
6 190628K2_6	50.0	1.04	NO	48.13	0.955	3.80e5	5.69e5	50.6	1.2	1.33	bb

**Compound name: PCB-174**

Response Factor: 1.2187

RRF SD: 0.0862611, Relative SD: 7.07815

Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1 190628K2_1	0.250	0.92	NO	48.53	0.963	1.59e3	5.87e5	0.222	-11.0	1.08	bd
2 190628K2_2	1.00	1.00	NO	48.51	0.962	6.82e3	5.46e5	1.02	2.5	1.25	bd
3 190628K2_3	2.50	1.03	NO	48.51	0.962	1.60e4	5.34e5	2.46	-1.6	1.20	bd
4 190628K2_4	400	1.02	NO	48.51	0.963	3.32e6	6.42e5	424	6.1	1.29	bd
5 190628K2_5	1000	1.03	NO	48.51	0.963	8.74e6	6.63e5	1080	8.2	1.32	bd
6 190628K2_6	50.0	1.02	NO	48.51	0.963	3.32e5	5.69e5	48.0	-4.1	1.17	MM

**Compound name: PCB-181**

Response Factor: 1.41444

RRF SD: 0.109219, Relative SD: 7.72171

Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1 190628K2_1	0.250	1.15	NO	48.62	0.965	1.84e3	5.87e5	0.221	-11.4	1.25	db
2 190628K2_2	1.00	0.97	NO	48.62	0.965	7.40e3	5.46e5	0.959	-4.1	1.36	dd
3 190628K2_3	2.50	1.05	NO	48.62	0.965	1.83e4	5.34e5	2.42	-3.2	1.37	dd
4 190628K2_4	400	1.03	NO	48.62	0.965	3.73e6	6.42e5	411	2.7	1.45	dd
5 190628K2_5	1000	1.05	NO	48.62	0.965	9.99e6	6.63e5	1070	6.6	1.51	dd
6 190628K2_6	50.0	1.04	NO	48.60	0.965	4.40e5	5.69e5	54.7	9.4	1.55	MM

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-177**

Response Factor: 1.24052

RRF SD: 0.0279876, Relative SD: 2.25612

Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.98	NO	48.79	0.968	1.76e3	5.87e5	0.241	-3.6	1.20	MM
2	190628K2_2	1.00	1.05	NO	48.81	0.968	6.85e3	5.46e5	1.01	1.1	1.25	dd
3	190628K2_3	2.50	1.02	NO	48.79	0.968	1.66e4	5.34e5	2.51	0.2	1.24	db
4	190628K2_4	400	1.04	NO	48.79	0.968	3.20e6	6.42e5	402	0.6	1.25	db
5	190628K2_5	1000	1.04	NO	48.79	0.968	8.47e6	6.63e5	1030	3.0	1.28	db
6	190628K2_6	50.0	1.06	NO	48.79	0.968	3.48e5	5.69e5	49.3	-1.4	1.22	db

**Compound name: PCB-171**

Response Factor: 1.24211

RRF SD: 0.0735445, Relative SD: 5.92093

Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.95	NO	49.10	0.974	1.75e3	5.87e5	0.240	-4.0	1.19	bb
2	190628K2_2	1.00	1.08	NO	49.10	0.974	6.36e3	5.46e5	0.937	-6.3	1.16	db
3	190628K2_3	2.50	1.04	NO	49.10	0.974	1.59e4	5.34e5	2.40	-4.1	1.19	bd
4	190628K2_4	400	1.03	NO	49.10	0.974	3.35e6	6.42e5	419	4.8	1.30	bd
5	190628K2_5	1000	1.03	NO	49.10	0.974	8.96e6	6.63e5	1090	8.9	1.35	bd
6	190628K2_6	50.0	1.05	NO	49.10	0.974	3.55e5	5.69e5	50.3	0.6	1.25	bd

**Compound name: PCB-173**

Response Factor: 1.14143

RRF SD: 0.0487352, Relative SD: 4.26968

Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.92	NO	49.53	0.983	1.66e3	5.87e5	0.248	-0.7	1.13	MM
2	190628K2_2	1.00	1.13	NO	49.53	0.983	5.79e3	5.46e5	0.929	-7.1	1.06	db

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**Compound name: PCB-173**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	2.50	0.98	NO	49.53	0.983	1.49e4	5.34e5	2.45	-2.0	1.12	bb
4	190628K2_4	400	1.03	NO	49.53	0.983	3.03e6	6.42e5	414	3.4	1.18	bb
5	190628K2_5	1000	1.03	NO	49.53	0.983	7.92e6	6.63e5	1050	4.8	1.20	bb
6	190628K2_6	50.0	1.04	NO	49.53	0.983	3.30e5	5.69e5	50.8	1.6	1.16	db

**Compound name: PCB-172**

Response Factor: 1.30718

RRF SD: 0.0890536, Relative SD: 6.81264

Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.92	NO	50.01	0.992	1.80e3	5.87e5	0.234	-6.5	1.22	MM
2	190628K2_2	1.00	1.04	NO	50.01	0.992	6.73e3	5.46e5	0.943	-5.7	1.23	dd
3	190628K2_3	2.50	1.02	NO	50.01	0.992	1.66e4	5.34e5	2.37	-5.2	1.24	MM
4	190628K2_4	400	1.02	NO	50.01	0.993	3.55e6	6.42e5	423	5.8	1.38	dd
5	190628K2_5	1000	1.04	NO	50.01	0.993	9.50e6	6.63e5	1100	9.7	1.43	MM
6	190628K2_6	50.0	1.02	NO	49.99	0.992	3.79e5	5.69e5	51.0	1.9	1.33	dd

**Compound name: PCB-192**

Response Factor: 1.70113

RRF SD: 0.146917, Relative SD: 8.63644

Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.13	NO	50.22	0.996	2.12e3	5.87e5	0.212	-15.3	1.44	bb
2	190628K2_2	1.00	1.00	NO	50.20	0.996	9.43e3	5.46e5	1.01	1.5	1.73	dd
3	190628K2_3	2.50	1.04	NO	50.22	0.996	2.20e4	5.34e5	2.42	-3.1	1.65	MM
4	190628K2_4	400	1.03	NO	50.20	0.996	4.59e6	6.42e5	420	5.0	1.79	dd
5	190628K2_5	1000	1.03	NO	50.20	0.996	1.24e7	6.63e5	1100	9.8	1.87	MM
6	190628K2_6	50.0	1.05	NO	50.20	0.996	4.94e5	5.69e5	51.1	2.2	1.74	dd

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-180**

Response Factor: 1.32008

RRF SD: 0.143324, Relative SD: 10.8572

Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.01	NO	50.40	1.000	1.53e3	5.87e5	0.197	-21.2	1.04	MM
2	190628K2_2	1.00	1.13	NO	50.42	1.000	7.42e3	5.46e5	1.03	3.0	1.36	dd
3	190628K2_3	2.50	0.95	NO	50.42	1.000	1.75e4	5.34e5	2.48	-0.7	1.31	MM
4	190628K2_4	400	1.03	NO	50.42	1.001	3.63e6	6.42e5	428	6.9	1.41	dd
5	190628K2_5	1000	1.02	NO	50.42	1.001	9.49e6	6.63e5	1080	8.5	1.43	MM
6	190628K2_6	50.0	1.04	NO	50.40	1.000	3.89e5	5.69e5	51.8	3.5	1.37	dd

**Compound name: PCB-193**

Response Factor: 1.5393

RRF SD: 0.092681, Relative SD: 6.02099

Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.05	NO	50.63	1.005	2.16e3	5.87e5	0.239	-4.4	1.47	bb
2	190628K2_2	1.00	1.15	NO	50.63	1.005	7.79e3	5.46e5	0.926	-7.4	1.43	db
3	190628K2_3	2.50	0.97	NO	50.63	1.005	1.99e4	5.34e5	2.42	-3.1	1.49	MM
4	190628K2_4	400	1.05	NO	50.61	1.005	4.11e6	6.42e5	416	3.9	1.60	db
5	190628K2_5	1000	1.03	NO	50.63	1.005	1.11e7	6.63e5	1090	8.8	1.68	MM
6	190628K2_6	50.0	1.04	NO	50.61	1.005	4.47e5	5.69e5	51.1	2.1	1.57	db

**Compound name: PCB-191**

Response Factor: 1.57344

RRF SD: 0.0924964, Relative SD: 5.87862

Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.09	NO	50.90	1.010	2.13e3	5.87e5	0.230	-7.8	1.45	bb
2	190628K2_2	1.00	0.94	NO	50.90	1.010	8.33e3	5.46e5	0.970	-3.0	1.53	bb



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**Compound name: PCB-191**

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3 190628K2_3	2.50	1.05	NO	50.90	1.010	2.03e4	5.34e5	2.41	-3.5	1.52	bb
4 190628K2_4	400	1.03	NO	50.88	1.010	4.22e6	6.42e5	417	4.3	1.64	bb
5 190628K2_5	1000	1.04	NO	50.88	1.010	1.13e7	6.63e5	1080	8.3	1.70	bb
6 190628K2_6	50.0	1.04	NO	50.88	1.010	4.55e5	5.69e5	50.9	1.8	1.60	bb

**Compound name: PCB-170**

Response Factor: 1.36107

RRF SD: 0.0694859, Relative SD: 5.10523

Response type: Internal Std ( Ref 206 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1 190628K2_1	0.250	1.21	NO	52.09	1.001	1.71e3	4.96e5	0.254	1.6	1.38	MM
2 190628K2_2	1.00	1.09	NO	52.07	1.000	5.77e3	4.64e5	0.914	-8.6	1.24	bd
3 190628K2_3	2.50	1.02	NO	52.07	1.000	1.55e4	4.62e5	2.47	-1.3	1.34	bd
4 190628K2_4	400	1.03	NO	52.07	1.000	3.06e6	5.46e5	412	2.9	1.40	bd
5 190628K2_5	1000	1.02	NO	52.07	1.000	8.24e6	5.68e5	1070	6.5	1.45	bd
6 190628K2_6	50.0	1.02	NO	52.07	1.000	3.27e5	4.87e5	49.4	-1.2	1.35	bd

**Compound name: PCB-190**

Response Factor: 1.84214

RRF SD: 0.108036, Relative SD: 5.86473

Response type: Internal Std ( Ref 206 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1 190628K2_1	0.250	0.97	NO	52.28	1.004	2.23e3	4.96e5	0.245	-2.1	1.80	db
2 190628K2_2	1.00	0.95	NO	52.28	1.004	7.87e3	4.64e5	0.921	-7.9	1.70	db
3 190628K2_3	2.50	0.99	NO	52.28	1.004	2.05e4	4.62e5	2.41	-3.6	1.78	db
4 190628K2_4	400	1.04	NO	52.26	1.004	4.21e6	5.46e5	418	4.5	1.93	db
5 190628K2_5	1000	1.03	NO	52.26	1.004	1.13e7	5.68e5	1080	8.4	2.00	db
6 190628K2_6	50.0	1.05	NO	52.26	1.004	4.51e5	4.87e5	50.3	0.6	1.85	db

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**Compound name: PCB-189**

Response Factor: 1.33264

RRF SD: 0.116005, Relative SD: 8.70494

Response type: Internal Std ( Ref 207 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.08	NO	53.76	1.000	1.94e3	6.83e5	0.213	-14.8	1.14	bb
2	190628K2_2	1.00	1.15	NO	53.76	1.000	7.89e3	6.20e5	0.955	-4.5	1.27	bb
3	190628K2_3	2.50	1.03	NO	53.76	1.000	2.05e4	6.19e5	2.49	-0.5	1.33	bb
4	190628K2_4	400	1.02	NO	53.74	1.000	4.34e6	7.60e5	428	7.1	1.43	bb
5	190628K2_5	1000	1.02	NO	53.74	1.000	1.17e7	8.09e5	1080	8.4	1.44	bb
6	190628K2_6	50.0	1.03	NO	53.74	1.000	4.59e5	6.60e5	52.2	4.4	1.39	bb

**Compound name: PCB-202**

Response Factor: 1.02408

RRF SD: 0.0539754, Relative SD: 5.27063

Response type: Internal Std ( Ref 208 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.98	NO	49.31	1.000	2.20e3	9.24e5	0.232	-7.2	0.950	bb
2	190628K2_2	1.00	0.92	NO	49.31	1.000	8.50e3	8.73e5	0.950	-5.0	0.973	bb
3	190628K2_3	2.50	0.98	NO	49.31	1.000	2.16e4	8.36e5	2.52	0.7	1.03	bb
4	190628K2_4	400	0.89	NO	49.31	1.000	4.17e6	9.80e5	416	3.9	1.06	bb
5	190628K2_5	1000	0.89	NO	49.31	1.000	1.09e7	9.96e5	1070	6.7	1.09	bb
6	190628K2_6	50.0	0.89	NO	49.31	1.001	4.61e5	8.93e5	50.4	0.9	1.03	bb

**Compound name: PCB-201**

Response Factor: 0.91513

RRF SD: 0.0768695, Relative SD: 8.39984

Response type: Internal Std ( Ref 208 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.76	NO	49.82	1.011	1.79e3	9.24e5	0.211	-15.6	0.773	MM
2	190628K2_2	1.00	0.88	NO	49.82	1.011	8.11e3	8.73e5	1.01	1.4	0.928	bd

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**Compound name: PCB-201**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	2.50	0.84	NO	49.82	1.011	1.89e4	8.36e5	2.46	-1.4	0.902	bd
4	190628K2_4	400	0.88	NO	49.80	1.010	3.74e6	9.80e5	418	4.4	0.955	bd
5	190628K2_5	1000	0.91	NO	49.80	1.010	9.94e6	9.96e5	1090	9.1	0.998	bd
6	190628K2_6	50.0	0.87	NO	49.80	1.011	4.17e5	8.93e5	51.1	2.1	0.935	bd

**Compound name: PCB-204**

Response Factor: 0.97894

RRF SD: 0.131215, Relative SD: 13.4037

Response type: Internal Std ( Ref 208 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.95	NO	49.97	1.014	1.71e3	9.24e5	0.189	-24.4	0.740	MM
2	190628K2_2	1.00	0.83	NO	49.97	1.014	8.25e3	8.73e5	0.964	-3.6	0.944	db
3	190628K2_3	2.50	0.86	NO	49.97	1.014	2.07e4	8.36e5	2.53	1.4	0.992	db
4	190628K2_4	400	0.89	NO	49.97	1.014	4.15e6	9.80e5	433	8.2	1.06	db
5	190628K2_5	1000	0.88	NO	49.97	1.014	1.11e7	9.96e5	1140	14.3	1.12	db
6	190628K2_6	50.0	0.89	NO	49.95	1.014	4.55e5	8.93e5	52.1	4.1	1.02	db

**Compound name: PCB-197**

Response Factor: 0.978959

RRF SD: 0.0841723, Relative SD: 8.59815

Response type: Internal Std ( Ref 208 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.79	NO	50.29	1.020	1.97e3	9.24e5	0.218	-12.9	0.853	bb
2	190628K2_2	1.00	0.94	NO	50.29	1.020	8.00e3	8.73e5	0.936	-6.4	0.916	bb
3	190628K2_3	2.50	0.93	NO	50.29	1.020	2.04e4	8.36e5	2.49	-0.5	0.974	bb
4	190628K2_4	400	0.90	NO	50.27	1.020	4.08e6	9.80e5	425	6.2	1.04	bb
5	190628K2_5	1000	0.89	NO	50.27	1.020	1.08e7	9.96e5	1110	10.7	1.08	bb
6	190628K2_6	50.0	0.88	NO	50.27	1.020	4.49e5	8.93e5	51.4	2.9	1.01	bb

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**Compound name: PCB-200**

Response Factor: 0.954148  
 RRF SD: 0.0651579, Relative SD: 6.82891  
 Response type: Internal Std ( Ref 208 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.77	NO	51.22	1.039	2.02e3	9.24e5	0.230	-8.2	0.876	MM
2	190628K2_2	1.00	0.87	NO	51.22	1.039	7.70e3	8.73e5	0.924	-7.6	0.881	bb
3	190628K2_3	2.50	0.93	NO	51.22	1.039	2.02e4	8.36e5	2.53	1.3	0.967	bb
4	190628K2_4	400	0.89	NO	51.22	1.039	3.93e6	9.80e5	420	5.0	1.00	bb
5	190628K2_5	1000	0.89	NO	51.22	1.039	1.04e7	9.96e5	1090	9.0	1.04	bb
6	190628K2_6	50.0	0.90	NO	51.20	1.039	4.28e5	8.93e5	50.2	0.5	0.958	bb

**Compound name: PCB-198**

Response Factor: 0.74824  
 RRF SD: 0.0589173, Relative SD: 7.87412  
 Response type: Internal Std ( Ref 208 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.84	NO	52.75	1.070	1.72e3	9.24e5	0.249	-0.6	0.744	bd
2	190628K2_2	1.00	0.99	NO	52.75	1.070	5.76e3	8.73e5	0.882	-11.8	0.660	bd
3	190628K2_3	2.50	0.89	NO	52.75	1.070	1.50e4	8.36e5	2.39	-4.2	0.717	bd
4	190628K2_4	400	0.89	NO	52.75	1.070	3.14e6	9.80e5	428	7.0	0.800	bd
5	190628K2_5	1000	0.89	NO	52.75	1.070	8.21e6	9.96e5	1100	10.1	0.824	bd
6	190628K2_6	50.0	0.88	NO	52.74	1.070	3.32e5	8.93e5	49.8	-0.5	0.745	bd

**Compound name: PCB-199**

Response Factor: 0.70591  
 RRF SD: 0.0741558, Relative SD: 10.505  
 Response type: Internal Std ( Ref 208 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.77	NO	52.87	1.073	1.35e3	9.24e5	0.208	-17.0	0.586	MM
2	190628K2_2	1.00	0.96	NO	52.87	1.073	5.87e3	8.73e5	0.953	-4.7	0.672	db

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**Compound name: PCB-199**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	2.50	0.92	NO	52.87	1.073	1.50e4	8.36e5	2.53	1.4	0.716	db
4	190628K2_4	400	0.89	NO	52.87	1.073	3.02e6	9.80e5	436	9.0	0.769	db
5	190628K2_5	1000	0.89	NO	52.87	1.073	7.91e6	9.96e5	1130	12.6	0.795	db
6	190628K2_6	50.0	0.91	NO	52.87	1.073	3.11e5	8.93e5	49.4	-1.2	0.697	db

**Compound name: PCB-196/203**

Response Factor: 0.784758

RRF SD: 0.0626821, Relative SD: 7.98744

Response type: Internal Std ( Ref 208 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.500	0.85	NO	53.17	1.079	3.74e3	9.24e5	0.516	3.1	0.809	bb
2	190628K2_2	2.00	0.92	NO	53.17	1.079	1.21e4	8.73e5	1.77	-11.7	0.693	bd
3	190628K2_3	5.00	0.89	NO	53.17	1.079	3.13e4	8.36e5	4.77	-4.6	0.748	bb
4	190628K2_4	800	0.89	NO	53.17	1.079	6.49e6	9.80e5	843	5.4	0.827	bb
5	190628K2_5	2000	0.88	NO	53.17	1.079	1.73e7	9.96e5	2210	10.6	0.868	bb
6	190628K2_6	100	0.89	NO	53.17	1.079	6.81e5	8.93e5	97.2	-2.8	0.763	bb

**Compound name: PCB-195**

Response Factor: 1.03344

RRF SD: 0.0794335, Relative SD: 7.68633

Response type: Internal Std ( Ref 209 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.83	NO	54.43	0.984	1.35e3	5.94e5	0.220	-12.2	0.908	bb
2	190628K2_2	1.00	0.99	NO	54.45	0.984	5.39e3	5.44e5	0.959	-4.1	0.991	bd
3	190628K2_3	2.50	0.87	NO	54.45	0.984	1.42e4	5.50e5	2.49	-0.3	1.03	bd
4	190628K2_4	400	0.90	NO	54.43	0.984	2.95e6	6.70e5	426	6.4	1.10	bd
5	190628K2_5	1000	0.89	NO	54.43	0.984	7.97e6	7.05e5	1090	9.4	1.13	bd
6	190628K2_6	50.0	0.89	NO	54.43	0.984	3.10e5	5.96e5	50.4	0.8	1.04	bd

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**Compound name: PCB-194**

Response Factor: 1.156

RRF SD: 0.0551277, Relative SD: 4.76883

Response type: Internal Std ( Ref 209 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.00	NO	55.34	1.000	1.69e3	5.94e5	0.247	-1.3	1.14	MM
2	190628K2_2	1.00	0.87	NO	55.34	1.000	5.94e3	5.44e5	0.945	-5.5	1.09	bb
3	190628K2_3	2.50	0.97	NO	55.34	1.000	1.54e4	5.50e5	2.42	-3.2	1.12	bb
4	190628K2_4	400	0.90	NO	55.34	1.000	3.27e6	6.70e5	422	5.5	1.22	bb
5	190628K2_5	1000	0.90	NO	55.34	1.000	8.64e6	7.05e5	1060	6.1	1.23	bb
6	190628K2_6	50.0	0.91	NO	55.34	1.000	3.39e5	5.96e5	49.2	-1.6	1.14	bb

**Compound name: PCB-205**

Response Factor: 1.40052

RRF SD: 0.143234, Relative SD: 10.2272

Response type: Internal Std ( Ref 209 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	0.78	NO	55.62	1.005	1.80e3	5.94e5	0.216	-13.5	1.21	MM
2	190628K2_2	1.00	0.93	NO	55.62	1.005	6.82e3	5.44e5	0.895	-10.5	1.25	bb
3	190628K2_3	2.50	0.86	NO	55.62	1.005	1.97e4	5.50e5	2.55	2.1	1.43	bb
4	190628K2_4	400	0.90	NO	55.62	1.005	4.09e6	6.70e5	436	8.9	1.53	bb
5	190628K2_5	1000	0.91	NO	55.62	1.005	1.11e7	7.05e5	1120	12.0	1.57	bb
6	190628K2_6	50.0	0.90	NO	55.60	1.005	4.21e5	5.96e5	50.5	1.0	1.41	bb

**Compound name: PCB-208**

Response Factor: 0.934251

RRF SD: 0.0412499, Relative SD: 4.41529

Response type: Internal Std ( Ref 210 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.38	NO	54.59	1.000	1.75e3	7.59e5	0.246	-1.5	0.920	bb
2	190628K2_2	1.00	1.31	NO	54.59	1.000	6.37e3	7.01e5	0.973	-2.7	0.909	bb

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**Compound name: PCB-208**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	190628K2_3	2.50	1.26	NO	54.59	1.000	1.52e4	6.91e5	2.36	-5.7	0.881	bb
4	190628K2_4	400	1.30	NO	54.59	1.000	3.21e6	8.36e5	411	2.7	0.960	bb
5	190628K2_5	1000	1.30	NO	54.59	1.000	8.64e6	8.64e5	1070	7.0	0.999	bb
6	190628K2_6	50.0	1.33	NO	54.58	1.000	3.44e5	7.35e5	50.1	0.2	0.936	bb

**Compound name: PCB-207**

Response Factor: 0.912134  
 RRF SD: 0.0629456, Relative SD: 6.90091  
 Response type: Internal Std ( Ref 210 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.16	NO	54.92	1.006	1.55e3	7.59e5	0.224	-10.3	0.818	MM
2	190628K2_2	1.00	1.28	NO	54.92	1.006	6.24e3	7.01e5	0.976	-2.4	0.890	bb
3	190628K2_3	2.50	1.39	NO	54.92	1.006	1.53e4	6.91e5	2.43	-2.9	0.885	bb
4	190628K2_4	400	1.31	NO	54.92	1.006	3.22e6	8.36e5	422	5.4	0.962	bb
5	190628K2_5	1000	1.30	NO	54.92	1.006	8.62e6	8.64e5	1090	9.3	0.997	bb
6	190628K2_6	50.0	1.29	NO	54.92	1.007	3.38e5	7.35e5	50.5	0.9	0.921	bb

**Compound name: PCB-206**

Response Factor: 0.987493  
 RRF SD: 0.0524678, Relative SD: 5.31324  
 Response type: Internal Std ( Ref 211 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.47	NO	56.88	1.000	1.31e3	5.58e5	0.238	-4.8	0.940	bb
2	190628K2_2	1.00	1.35	NO	56.88	1.000	4.63e3	4.86e5	0.964	-3.6	0.952	bb
3	190628K2_3	2.50	1.30	NO	56.88	1.000	1.20e4	5.08e5	2.40	-4.2	0.946	bb
4	190628K2_4	400	1.31	NO	56.88	1.000	2.55e6	6.25e5	414	3.4	1.02	bb
5	190628K2_5	1000	1.30	NO	56.88	1.000	6.85e6	6.39e5	1090	8.7	1.07	bb
6	190628K2_6	50.0	1.33	NO	56.88	1.000	2.64e5	5.31e5	50.2	0.5	0.992	bd

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: PCB-209**

Response Factor: 0.942577

RRF SD: 0.0529671, Relative SD: 5.61939

Response type: Internal Std ( Ref 212 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	0.250	1.15	NO	58.09	1.000	1.49e3	6.89e5	0.229	-8.4	0.864	MM
2	190628K2_2	1.00	1.21	NO	58.09	1.000	5.65e3	5.90e5	1.02	1.7	0.959	bb
3	190628K2_3	2.50	1.16	NO	58.09	1.000	1.43e4	6.36e5	2.38	-5.0	0.896	bb
4	190628K2_4	400	1.17	NO	58.09	1.000	3.01e6	7.64e5	418	4.5	0.985	bb
5	190628K2_5	1000	1.19	NO	58.09	1.000	8.06e6	8.04e5	1060	6.3	1.00	bb
6	190628K2_6	50.0	1.19	NO	58.09	1.000	3.09e5	6.50e5	50.4	0.8	0.950	bb

**Compound name: 13C-PCB-1**

Response Factor: 1.0775

RRF SD: 0.0449431, Relative SD: 4.17105

Response type: Internal Std ( Ref 213 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	3.06	NO	16.00	0.612	2.00e6	1.81e6	102	2.2	1.10	bb
2	190628K2_2	100	3.05	NO	16.02	0.612	1.99e6	1.78e6	103	3.3	1.11	bb
3	190628K2_3	100	3.05	NO	16.02	0.612	1.90e6	1.70e6	104	3.7	1.12	bb
4	190628K2_4	100	3.05	NO	16.02	0.613	2.27e6	2.17e6	96.8	-3.2	1.04	bb
5	190628K2_5	100	3.02	NO	16.02	0.613	2.28e6	2.27e6	93.1	-6.9	1.00	bb
6	190628K2_6	100	3.04	NO	16.01	0.612	1.96e6	1.81e6	101	0.9	1.09	bb

**Compound name: 13C-PCB-3**

Response Factor: 1.09089

RRF SD: 0.0390643, Relative SD: 3.58095

Response type: Internal Std ( Ref 213 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	3.05	NO	18.70	0.715	2.02e6	1.81e6	102	2.2	1.11	bb
2	190628K2_2	100	3.05	NO	18.71	0.715	1.99e6	1.78e6	102	2.1	1.11	bb



Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: 13C-PCB-3**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	100	3.04	NO	18.71	0.715	1.92e6	1.70e6	103	3.4	1.13	bb
4	190628K2_4	100	3.04	NO	18.71	0.715	2.30e6	2.17e6	96.9	-3.1	1.06	bb
5	190628K2_5	100	3.03	NO	18.71	0.715	2.34e6	2.27e6	94.3	-5.7	1.03	bb
6	190628K2_6	100	3.04	NO	18.70	0.715	1.99e6	1.81e6	101	1.0	1.10	bb

**Compound name: 13C-PCB-4**

Response Factor: 0.639891

RRF SD: 0.0240256, Relative SD: 3.75464

Response type: Internal Std ( Ref 213 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.60	NO	20.08	0.768	1.18e6	1.81e6	102	1.5	0.650	bb
2	190628K2_2	100	1.62	NO	20.09	0.768	1.17e6	1.78e6	102	2.5	0.656	bb
3	190628K2_3	100	1.62	NO	20.10	0.768	1.13e6	1.70e6	103	3.3	0.661	bb
4	190628K2_4	100	1.59	NO	20.09	0.768	1.35e6	2.17e6	96.7	-3.3	0.619	bb
5	190628K2_5	100	1.60	NO	20.09	0.768	1.37e6	2.27e6	94.0	-6.0	0.601	bb
6	190628K2_6	100	1.64	NO	20.08	0.768	1.18e6	1.81e6	102	2.0	0.653	bb

**Compound name: 13C-PCB-9**

Response Factor: 0.99535

RRF SD: 0.0377122, Relative SD: 3.78884

Response type: Internal Std ( Ref 213 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.57	NO	21.92	0.838	1.85e6	1.81e6	103	2.5	1.02	bb
2	190628K2_2	100	1.58	NO	21.94	0.839	1.83e6	1.78e6	103	3.0	1.02	bb
3	190628K2_3	100	1.60	NO	21.94	0.839	1.74e6	1.70e6	103	2.8	1.02	bb
4	190628K2_4	100	1.60	NO	21.93	0.839	2.08e6	2.17e6	96.3	-3.7	0.958	bb
5	190628K2_5	100	1.61	NO	21.93	0.839	2.13e6	2.27e6	94.2	-5.8	0.938	bb
6	190628K2_6	100	1.58	NO	21.93	0.839	1.82e6	1.81e6	101	1.2	1.01	bb

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**Compound name: 13C-PCB-11**

Response Factor: 0.971426

RRF SD: 0.0219408, Relative SD: 2.25862

Response type: Internal Std ( Ref 213 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.59	NO	25.42	0.972	1.80e6	1.81e6	102	2.1	0.992	bb
2	190628K2_2	100	1.59	NO	25.43	0.972	1.77e6	1.78e6	102	1.9	0.990	bd
3	190628K2_3	100	1.59	NO	25.44	0.972	1.68e6	1.70e6	102	1.6	0.987	bb
4	190628K2_4	100	1.59	NO	25.43	0.972	2.06e6	2.17e6	97.4	-2.6	0.946	bb
5	190628K2_5	100	1.59	NO	25.43	0.972	2.15e6	2.27e6	97.2	-2.8	0.944	bb
6	190628K2_6	100	1.60	NO	25.42	0.972	1.75e6	1.81e6	99.9	-0.1	0.971	bb

**Compound name: 13C-PCB-19**

Response Factor: 0.637272

RRF SD: 0.0290614, Relative SD: 4.56029

Response type: Internal Std ( Ref 213 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.02	NO	24.37	0.932	1.20e6	1.81e6	104	4.1	0.664	bb
2	190628K2_2	100	1.04	NO	24.38	0.932	1.17e6	1.78e6	103	2.7	0.655	bb
3	190628K2_3	100	1.03	NO	24.38	0.932	1.12e6	1.70e6	104	3.7	0.661	bb
4	190628K2_4	100	1.03	NO	24.38	0.932	1.34e6	2.17e6	96.6	-3.4	0.615	bb
5	190628K2_5	100	1.03	NO	24.38	0.932	1.34e6	2.27e6	92.6	-7.4	0.590	bb
6	190628K2_6	100	1.02	NO	24.37	0.932	1.15e6	1.81e6	100	0.3	0.639	bb

**Compound name: 13C-PCB-32**

Response Factor: 0.909913

RRF SD: 0.017557, Relative SD: 1.92952

Response type: Internal Std ( Ref 213 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.04	NO	27.39	1.047	1.69e6	1.81e6	102	2.3	0.931	bb
2	190628K2_2	100	1.05	NO	27.40	1.047	1.64e6	1.78e6	101	0.8	0.917	bb

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**Compound name: 13C-PCB-32**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	100	1.03	NO	27.40	1.047	1.57e6	1.70e6	101	1.3	0.922	bb
4	190628K2_4	100	1.05	NO	27.39	1.047	1.94e6	2.17e6	97.8	-2.2	0.890	bb
5	190628K2_5	100	1.05	NO	27.40	1.048	2.02e6	2.27e6	97.5	-2.5	0.887	bb
6	190628K2_6	100	1.03	NO	27.39	1.047	1.65e6	1.81e6	100	0.3	0.913	bb

**Compound name: 13C-PCB-28**

Response Factor: 1.06917

RRF SD: 0.0795995, Relative SD: 7.44496

Response type: Internal Std ( Ref 214 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.00	NO	29.41	1.003	1.52e6	1.53e6	93.0	-7.0	0.995	db
2	190628K2_2	100	0.98	NO	29.43	1.004	1.57e6	1.45e6	101	1.5	1.08	db
3	190628K2_3	100	0.97	NO	29.43	1.004	1.54e6	1.37e6	105	4.6	1.12	db
4	190628K2_4	100	0.98	NO	29.43	1.004	1.79e6	1.78e6	93.9	-6.1	1.00	db
5	190628K2_5	100	0.98	NO	29.43	1.004	1.86e6	1.83e6	95.1	-4.9	1.02	db
6	190628K2_6	100	0.98	NO	29.41	1.003	1.67e6	1.39e6	112	12.0	1.20	db

**Compound name: 13C-PCB-37**

Response Factor: 0.959494

RRF SD: 0.0266436, Relative SD: 2.77684

Response type: Internal Std ( Ref 214 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	0.99	NO	33.43	1.140	1.43e6	1.53e6	97.5	-2.5	0.935	bb
2	190628K2_2	100	0.98	NO	33.45	1.141	1.38e6	1.45e6	99.6	-0.4	0.955	bb
3	190628K2_3	100	0.99	NO	33.45	1.141	1.33e6	1.37e6	101	0.6	0.966	bb
4	190628K2_4	100	0.99	NO	33.43	1.140	1.67e6	1.78e6	97.3	-2.7	0.934	bb
5	190628K2_5	100	0.97	NO	33.43	1.140	1.76e6	1.83e6	100	-0.0	0.959	bb
6	190628K2_6	100	0.98	NO	33.43	1.140	1.40e6	1.39e6	105	5.0	1.01	bb

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**Compound name: 13C-PCB-54**

Response Factor: 1.09828

RRF SD: 0.0339907, Relative SD: 3.09489

Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	0.77	NO	28.25	0.756	1.40e6	1.25e6	102	2.0	1.12	bb
2	190628K2_2	100	0.77	NO	28.25	0.756	1.36e6	1.22e6	102	2.2	1.12	bb
3	190628K2_3	100	0.77	NO	28.25	0.756	1.32e6	1.16e6	103	3.1	1.13	bb
4	190628K2_4	100	0.77	NO	28.25	0.756	1.58e6	1.47e6	97.8	-2.2	1.07	bb
5	190628K2_5	100	0.77	NO	28.25	0.756	1.61e6	1.55e6	95.0	-5.0	1.04	bb
6	190628K2_6	100	0.77	NO	28.25	0.756	1.37e6	1.25e6	99.9	-0.1	1.10	bb

**Compound name: 13C-PCB-52**

Response Factor: 0.844174

RRF SD: 0.022517, Relative SD: 2.66734

Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	0.77	NO	31.92	0.854	1.07e6	1.25e6	101	1.2	0.855	bb
2	190628K2_2	100	0.77	NO	31.94	0.855	1.04e6	1.22e6	101	1.2	0.855	bb
3	190628K2_3	100	0.76	NO	31.94	0.855	1.02e6	1.16e6	103	3.5	0.873	bb
4	190628K2_4	100	0.77	NO	31.92	0.854	1.23e6	1.47e6	99.0	-1.0	0.836	bb
5	190628K2_5	100	0.77	NO	31.92	0.854	1.25e6	1.55e6	95.6	-4.4	0.807	bd
6	190628K2_6	100	0.77	NO	31.92	0.854	1.05e6	1.25e6	99.4	-0.6	0.839	bb

**Compound name: 13C-PCB-47**

Response Factor: 0.893306

RRF SD: 0.0118289, Relative SD: 1.32417

Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	0.77	NO	32.44	0.868	1.14e6	1.25e6	102	1.8	0.910	bb
2	190628K2_2	100	0.77	NO	32.46	0.869	1.09e6	1.22e6	100	0.4	0.897	bb

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**Compound name: 13C-PCB-47**

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3 190628K2_3	100	0.78	NO	32.46	0.869	1.05e6	1.16e6	101	1.1	0.903	bb
4 190628K2_4	100	0.76	NO	32.44	0.868	1.31e6	1.47e6	99.1	-0.9	0.885	bb
5 190628K2_5	100	0.75	NO	32.44	0.868	1.37e6	1.55e6	98.9	-1.1	0.883	bb
6 190628K2_6	100	0.76	NO	32.44	0.868	1.10e6	1.25e6	98.7	-1.3	0.881	bb

**Compound name: 13C-PCB-70**

Response Factor: 1.00762

RRF SD: 0.00962693, Relative SD: 0.955414

Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1 190628K2_1	100	0.77	NO	36.09	0.966	1.27e6	1.25e6	100	0.4	1.01	bb
2 190628K2_2	100	0.76	NO	36.09	0.966	1.22e6	1.22e6	99.5	-0.5	1.00	bb
3 190628K2_3	100	0.78	NO	36.11	0.966	1.18e6	1.16e6	101	1.1	1.02	bb
4 190628K2_4	100	0.77	NO	36.09	0.966	1.49e6	1.47e6	100	0.4	1.01	bb
5 190628K2_5	100	0.78	NO	36.09	0.966	1.56e6	1.55e6	100	0.2	1.01	bb
6 190628K2_6	100	0.77	NO	36.09	0.966	1.24e6	1.25e6	98.4	-1.6	0.991	bb

**Compound name: 13C-PCB-80**

Response Factor: 1.04583

RRF SD: 0.0107662, Relative SD: 1.02944

Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1 190628K2_1	100	0.76	NO	36.53	0.978	1.31e6	1.25e6	100	0.3	1.05	bb
2 190628K2_2	100	0.77	NO	36.53	0.978	1.25e6	1.22e6	98.5	-1.5	1.03	bb
3 190628K2_3	100	0.77	NO	36.53	0.978	1.23e6	1.16e6	101	1.5	1.06	bb
4 190628K2_4	100	0.79	NO	36.52	0.977	1.53e6	1.47e6	99.5	-0.5	1.04	bb
5 190628K2_5	100	0.77	NO	36.53	0.978	1.61e6	1.55e6	99.5	-0.5	1.04	bb
6 190628K2_6	100	0.78	NO	36.52	0.977	1.31e6	1.25e6	101	0.6	1.05	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

Last Altered: Saturday, June 29, 2019 12:47:58 Pacific Daylight Time

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**Compound name: 13C-PCB-81**

Response Factor: 0.984949

RRF SD: 0.00519456, Relative SD: 0.527394

Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	0.77	NO	39.74	1.063	1.24e6	1.25e6	101	0.5	0.990	dd
2	190628K2_2	100	0.77	NO	39.75	1.064	1.19e6	1.22e6	99.5	-0.5	0.980	dd
3	190628K2_3	100	0.77	NO	39.74	1.063	1.14e6	1.16e6	99.2	-0.8	0.977	bd
4	190628K2_4	100	0.76	NO	39.74	1.063	1.46e6	1.47e6	100	0.4	0.989	bd
5	190628K2_5	100	0.76	NO	39.74	1.063	1.53e6	1.55e6	100	0.2	0.987	bd
6	190628K2_6	100	0.78	NO	39.74	1.063	1.23e6	1.25e6	100	0.1	0.986	dd

**Compound name: 13C-PCB-77**

Response Factor: 0.958367

RRF SD: 0.0203246, Relative SD: 2.12075

Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	0.78	NO	40.35	1.080	1.21e6	1.25e6	101	0.7	0.965	bd
2	190628K2_2	100	0.79	NO	40.37	1.080	1.13e6	1.22e6	96.8	-3.2	0.928	bb
3	190628K2_3	100	0.78	NO	40.37	1.080	1.11e6	1.16e6	99.4	-0.6	0.952	bb
4	190628K2_4	100	0.79	NO	40.35	1.080	1.44e6	1.47e6	102	2.0	0.978	bb
5	190628K2_5	100	0.78	NO	40.35	1.080	1.52e6	1.55e6	102	2.4	0.982	bb
6	190628K2_6	100	0.78	NO	40.35	1.080	1.18e6	1.25e6	98.7	-1.3	0.946	bd

**Compound name: 13C-PCB-104**

Response Factor: 1.09695

RRF SD: 0.0312368, Relative SD: 2.8476

Response type: Internal Std ( Ref 216 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.59	NO	33.11	0.829	1.30e6	1.16e6	103	2.8	1.13	bb
2	190628K2_2	100	1.62	NO	33.13	0.829	1.26e6	1.13e6	101	1.2	1.11	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

Last Altered: Saturday, June 29, 2019 12:47:58 Pacific Daylight Time  
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**Compound name: 13C-PCB-104**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	100	1.56	NO	33.13	0.829	1.21e6	1.08e6	103	3.0	1.13	bb
4	190628K2_4	100	1.59	NO	33.11	0.829	1.46e6	1.37e6	96.7	-3.3	1.06	bb
5	190628K2_5	100	1.60	NO	33.13	0.830	1.49e6	1.41e6	96.6	-3.4	1.06	bb
6	190628K2_6	100	1.58	NO	33.11	0.829	1.27e6	1.17e6	99.7	-0.3	1.09	bb

**Compound name: 13C-PCB-95**

Response Factor: 0.852056

RRF SD: 0.016469, Relative SD: 1.93285

Response type: Internal Std ( Ref 216 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.61	NO	36.40	0.911	9.93e5	1.16e6	101	0.8	0.859	bb
2	190628K2_2	100	1.62	NO	36.40	0.911	9.59e5	1.13e6	99.3	-0.7	0.846	bb
3	190628K2_3	100	1.58	NO	36.40	0.911	9.46e5	1.08e6	103	3.2	0.879	bb
4	190628K2_4	100	1.59	NO	36.40	0.911	1.15e6	1.37e6	98.2	-1.8	0.837	bb
5	190628K2_5	100	1.62	NO	36.40	0.911	1.21e6	1.41e6	100	0.5	0.856	bb
6	190628K2_6	100	1.65	NO	36.39	0.911	9.73e5	1.17e6	98.1	-1.9	0.835	bb

**Compound name: 13C-PCB-101**

Response Factor: 0.813658

RRF SD: 0.0173621, Relative SD: 2.13384

Response type: Internal Std ( Ref 216 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.58	NO	38.15	0.955	9.69e5	1.16e6	103	3.0	0.838	bb
2	190628K2_2	100	1.62	NO	38.15	0.955	9.17e5	1.13e6	99.4	-0.6	0.809	bb
3	190628K2_3	100	1.62	NO	38.15	0.955	8.90e5	1.08e6	102	1.7	0.827	bb
4	190628K2_4	100	1.64	NO	38.15	0.955	1.08e6	1.37e6	97.0	-3.0	0.789	bb
5	190628K2_5	100	1.60	NO	38.15	0.955	1.13e6	1.41e6	98.8	-1.2	0.804	bb
6	190628K2_6	100	1.60	NO	38.14	0.955	9.49e5	1.17e6	100	0.1	0.815	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: 13C-PCB-97**

Response Factor: 0.709353

RRF SD: 0.0178988, Relative SD: 2.52326

Response type: Internal Std ( Ref 216 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.63	NO	39.49	0.989	8.42e5	1.16e6	103	2.7	0.728	bb
2	190628K2_2	100	1.60	NO	39.49	0.989	8.07e5	1.13e6	100	0.4	0.712	bb
3	190628K2_3	100	1.61	NO	39.49	0.989	7.81e5	1.08e6	102	2.4	0.727	bb
4	190628K2_4	100	1.63	NO	39.49	0.989	9.44e5	1.37e6	96.9	-3.1	0.687	bb
5	190628K2_5	100	1.63	NO	39.49	0.989	9.71e5	1.41e6	97.0	-3.0	0.688	bb
6	190628K2_6	100	1.62	NO	39.49	0.989	8.31e5	1.17e6	101	0.5	0.713	bb

**Compound name: 13C-PCB-123**

Response Factor: 0.921605

RRF SD: 0.0152087, Relative SD: 1.65024

Response type: Internal Std ( Ref 216 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.60	NO	42.15	1.056	1.09e6	1.16e6	102	2.1	0.941	bd
2	190628K2_2	100	1.63	NO	42.15	1.055	1.04e6	1.13e6	99.6	-0.4	0.918	bd
3	190628K2_3	100	1.61	NO	42.15	1.055	1.01e6	1.08e6	102	1.6	0.936	bd
4	190628K2_4	100	1.57	NO	42.15	1.056	1.24e6	1.37e6	97.7	-2.3	0.901	bd
5	190628K2_5	100	1.58	NO	42.15	1.056	1.28e6	1.41e6	98.9	-1.1	0.911	bd
6	190628K2_6	100	1.62	NO	42.14	1.055	1.07e6	1.17e6	100	0.1	0.923	bd

**Compound name: 13C-PCB-118**

Response Factor: 0.974956

RRF SD: 0.0102057, Relative SD: 1.04679

Response type: Internal Std ( Ref 216 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.64	NO	42.34	1.060	1.14e6	1.16e6	101	1.4	0.989	db
2	190628K2_2	100	1.63	NO	42.34	1.060	1.09e6	1.13e6	99.0	-1.0	0.965	db



Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

Last Altered: Saturday, June 29, 2019 12:47:58 Pacific Daylight Time  
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**Compound name: 13C-PCB-118**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	190628K2_3	100	1.61	NO	42.34	1.060	1.04e6	1.08e6	99.5	-0.5	0.970	db
4	190628K2_4	100	1.60	NO	42.34	1.060	1.35e6	1.37e6	101	0.7	0.981	db
5	190628K2_5	100	1.62	NO	42.34	1.060	1.38e6	1.41e6	101	0.6	0.981	db
6	190628K2_6	100	1.60	NO	42.32	1.060	1.12e6	1.17e6	98.9	-1.1	0.964	db

**Compound name: 13C-PCB-114**

Response Factor: 1.5194

RRF SD: 0.0421961, Relative SD: 2.77715

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	100	1.57	NO	43.02	0.909	9.51e5	6.32e5	99.1	-0.9	1.51	bb
2	190628K2_2	100	1.55	NO	43.02	0.909	9.12e5	6.11e5	98.2	-1.8	1.49	bb
3	190628K2_3	100	1.54	NO	43.02	0.909	8.94e5	5.87e5	100	0.2	1.52	bb
4	190628K2_4	100	1.54	NO	43.02	0.909	1.12e6	7.19e5	103	2.6	1.56	bb
5	190628K2_5	100	1.54	NO	43.02	0.909	1.18e6	7.49e5	104	3.6	1.57	bb
6	190628K2_6	100	1.56	NO	43.02	0.910	9.55e5	6.54e5	96.2	-3.8	1.46	bd

**Compound name: 13C-PCB-105**

Response Factor: 1.58333

RRF SD: 0.0248304, Relative SD: 1.56824

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	100	1.56	NO	43.91	0.928	1.01e6	6.32e5	101	1.1	1.60	dd
2	190628K2_2	100	1.55	NO	43.91	0.928	9.63e5	6.11e5	99.5	-0.5	1.58	dd
3	190628K2_3	100	1.57	NO	43.91	0.928	9.24e5	5.87e5	99.5	-0.5	1.57	dd
4	190628K2_4	100	1.56	NO	43.91	0.928	1.15e6	7.19e5	101	0.9	1.60	bd
5	190628K2_5	100	1.56	NO	43.91	0.928	1.21e6	7.49e5	102	1.7	1.61	bd
6	190628K2_6	100	1.53	NO	43.91	0.928	1.01e6	6.54e5	97.4	-2.6	1.54	bd

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: 13C-PCB-127**

Response Factor: 1.6216

RRF SD: 0.0248818, Relative SD: 1.5344

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	100	1.54	NO	44.25	0.935	1.03e6	6.32e5	101	0.6	1.63	db
2	190628K2_2	100	1.56	NO	44.27	0.936	1.00e6	6.11e5	101	1.0	1.64	db
3	190628K2_3	100	1.57	NO	44.27	0.936	9.66e5	5.87e5	101	1.5	1.65	dd
4	190628K2_4	100	1.54	NO	44.25	0.935	1.16e6	7.19e5	99.8	-0.2	1.62	bb
5	190628K2_5	100	1.58	NO	44.25	0.935	1.22e6	7.49e5	100	0.0	1.62	bb
6	190628K2_6	100	1.53	NO	44.25	0.936	1.03e6	6.54e5	97.1	-2.9	1.58	bb

**Compound name: 13C-PCB-126**

Response Factor: 1.44528

RRF SD: 0.0309095, Relative SD: 2.13865

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	100	1.55	NO	46.22	0.977	9.10e5	6.32e5	99.7	-0.3	1.44	bd
2	190628K2_2	100	1.57	NO	46.22	0.977	8.64e5	6.11e5	97.8	-2.2	1.41	bd
3	190628K2_3	100	1.57	NO	46.22	0.977	8.49e5	5.87e5	100	0.1	1.45	bd
4	190628K2_4	100	1.56	NO	46.22	0.977	1.06e6	7.19e5	102	2.1	1.48	bb
5	190628K2_5	100	1.55	NO	46.22	0.977	1.11e6	7.49e5	103	2.8	1.49	bb
6	190628K2_6	100	1.55	NO	46.22	0.977	9.21e5	6.54e5	97.5	-2.5	1.41	bd

**Compound name: 13C-PCB-155**

Response Factor: 1.02601

RRF SD: 0.055855, Relative SD: 5.44389

Response type: Internal Std ( Ref 216 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	100	1.25	NO	37.67	0.943	1.26e6	1.16e6	106	6.1	1.09	bb
2	190628K2_2	100	1.29	NO	37.67	0.943	1.20e6	1.13e6	103	3.5	1.06	bb

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Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: 13C-PCB-155**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	190628K2_3	100	1.28	NO	37.67	0.943	1.15e6	1.08e6	104	4.3	1.07	bb
4	190628K2_4	100	1.23	NO	37.67	0.943	1.32e6	1.37e6	93.6	-6.4	0.961	bb
5	190628K2_5	100	1.24	NO	37.67	0.943	1.36e6	1.41e6	93.8	-6.2	0.963	bb
6	190628K2_6	100	1.29	NO	37.67	0.943	1.18e6	1.17e6	98.7	-1.3	1.01	bb

**Compound name: 13C-PCB-153**

Response Factor: 1.42376

RRF SD: 0.0366483, Relative SD: 2.57404

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	100	1.25	NO	44.08	0.932	9.27e5	6.32e5	103	3.1	1.47	bb
2	190628K2_2	100	1.27	NO	44.08	0.932	8.81e5	6.11e5	101	1.3	1.44	bb
3	190628K2_3	100	1.28	NO	44.08	0.932	8.55e5	5.87e5	102	2.3	1.46	bb
4	190628K2_4	100	1.28	NO	44.08	0.932	1.01e6	7.19e5	98.8	-1.2	1.41	bb
5	190628K2_5	100	1.27	NO	44.08	0.932	1.04e6	7.49e5	97.3	-2.7	1.39	bb
6	190628K2_6	100	1.24	NO	44.06	0.932	9.04e5	6.54e5	97.2	-2.8	1.38	bb

**Compound name: 13C-PCB-141**

Response Factor: 1.1427

RRF SD: 0.0320411, Relative SD: 2.80397

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	100	1.28	NO	44.83	0.947	7.44e5	6.32e5	103	3.0	1.18	bb
2	190628K2_2	100	1.30	NO	44.83	0.948	7.19e5	6.11e5	103	3.0	1.18	bb
3	190628K2_3	100	1.28	NO	44.83	0.948	6.77e5	5.87e5	101	0.9	1.15	bb
4	190628K2_4	100	1.26	NO	44.83	0.947	8.10e5	7.19e5	98.6	-1.4	1.13	bb
5	190628K2_5	100	1.27	NO	44.83	0.947	8.22e5	7.49e5	96.0	-4.0	1.10	bb
6	190628K2_6	100	1.28	NO	44.83	0.948	7.35e5	6.54e5	98.5	-1.5	1.13	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: 13C-PCB-138**

Response Factor: 1.18003  
 RRF SD: 0.0183162, Relative SD: 1.55219  
 Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.26	NO	45.71	0.966	7.59e5	6.32e5	102	1.8	1.20	bb
2	190628K2_2	100	1.28	NO	45.71	0.966	7.22e5	6.11e5	100	0.1	1.18	bb
3	190628K2_3	100	1.25	NO	45.71	0.966	7.06e5	5.87e5	102	1.9	1.20	bb
4	190628K2_4	100	1.25	NO	45.71	0.966	8.40e5	7.19e5	99.0	-1.0	1.17	bb
5	190628K2_5	100	1.28	NO	45.71	0.966	8.73e5	7.49e5	98.8	-1.2	1.17	bb
6	190628K2_6	100	1.25	NO	45.69	0.966	7.59e5	6.54e5	98.4	-1.6	1.16	bb

**Compound name: 13C-PCB-159**

Response Factor: 1.43334  
 RRF SD: 0.0182723, Relative SD: 1.2748  
 Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.26	NO	47.03	0.994	9.24e5	6.32e5	102	2.0	1.46	bd
2	190628K2_2	100	1.23	NO	47.03	0.994	8.65e5	6.11e5	98.7	-1.3	1.41	bb
3	190628K2_3	100	1.26	NO	47.03	0.994	8.45e5	5.87e5	100	0.4	1.44	bd
4	190628K2_4	100	1.26	NO	47.03	0.994	1.03e6	7.19e5	99.6	-0.4	1.43	bd
5	190628K2_5	100	1.27	NO	47.03	0.994	1.08e6	7.49e5	101	0.5	1.44	bd
6	190628K2_6	100	1.26	NO	47.03	0.994	9.24e5	6.54e5	98.7	-1.3	1.41	bd

**Compound name: 13C-PCB-167**

Response Factor: 1.42407  
 RRF SD: 0.0216388, Relative SD: 1.51951  
 Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.27	NO	47.73	1.009	9.22e5	6.32e5	103	2.5	1.46	bb
2	190628K2_2	100	1.28	NO	47.73	1.009	8.60e5	6.11e5	98.9	-1.1	1.41	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: 13C-PCB-167**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	100	1.26	NO	47.73	1.009	8.45e5	5.87e5	101	1.1	1.44	bb
4	190628K2_4	100	1.24	NO	47.73	1.009	1.01e6	7.19e5	98.8	-1.2	1.41	bb
5	190628K2_5	100	1.25	NO	47.73	1.009	1.07e6	7.49e5	99.8	-0.2	1.42	bb
6	190628K2_6	100	1.27	NO	47.73	1.009	9.21e5	6.54e5	98.9	-1.1	1.41	bb

**Compound name: 13C-PCB-156**

Response Factor: 1.39757

RRF SD: 0.0238831, Relative SD: 1.70891

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.26	NO	49.06	1.037	8.89e5	6.32e5	101	0.8	1.41	bb
2	190628K2_2	100	1.27	NO	49.08	1.037	8.48e5	6.11e5	99.3	-0.7	1.39	bd
3	190628K2_3	100	1.26	NO	49.08	1.037	8.22e5	5.87e5	100	0.2	1.40	bd
4	190628K2_4	100	1.28	NO	49.06	1.037	1.01e6	7.19e5	100	0.3	1.40	bb
5	190628K2_5	100	1.27	NO	49.06	1.037	1.07e6	7.49e5	102	2.3	1.43	bb
6	190628K2_6	100	1.28	NO	49.06	1.037	8.87e5	6.54e5	97.1	-2.9	1.36	bd

**Compound name: 13C-PCB-157**

Response Factor: 1.40667

RRF SD: 0.0289658, Relative SD: 2.05919

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.28	NO	49.34	1.043	9.06e5	6.32e5	102	2.0	1.44	bb
2	190628K2_2	100	1.28	NO	49.34	1.043	8.34e5	6.11e5	97.0	-3.0	1.36	db
3	190628K2_3	100	1.25	NO	49.34	1.043	8.40e5	5.87e5	102	1.7	1.43	db
4	190628K2_4	100	1.24	NO	49.34	1.043	1.01e6	7.19e5	100	0.1	1.41	bb
5	190628K2_5	100	1.27	NO	49.34	1.043	1.07e6	7.49e5	101	1.2	1.42	bb
6	190628K2_6	100	1.28	NO	49.34	1.043	9.01e5	6.54e5	98.0	-2.0	1.38	dd

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

Last Altered: Saturday, June 29, 2019 12:47:58 Pacific Daylight Time

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**Compound name: 13C-PCB-169**

Response Factor: 1.34613

RRF SD: 0.0307594, Relative SD: 2.28501

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	100	1.26	NO	51.62	1.091	8.71e5	6.32e5	102	2.4	1.38	bb
2	190628K2_2	100	1.25	NO	51.62	1.091	8.00e5	6.11e5	97.2	-2.8	1.31	bb
3	190628K2_3	100	1.28	NO	51.62	1.091	7.92e5	5.87e5	100	0.3	1.35	bd
4	190628K2_4	100	1.27	NO	51.62	1.091	9.82e5	7.19e5	101	1.5	1.37	bb
5	190628K2_5	100	1.27	NO	51.62	1.091	1.02e6	7.49e5	102	1.5	1.37	bb
6	190628K2_6	100	1.26	NO	51.62	1.091	8.55e5	6.54e5	97.2	-2.8	1.31	bb

**Compound name: 13C-PCB-188**

Response Factor: 1.46265

RRF SD: 0.0268105, Relative SD: 1.83302

Response type: Internal Std ( Ref 218 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	100	0.44	NO	43.68	0.927	9.11e5	6.10e5	102	2.1	1.49	bb
2	190628K2_2	100	0.45	NO	43.70	0.927	8.63e5	5.90e5	100	0.1	1.46	bb
3	190628K2_3	100	0.45	NO	43.70	0.927	8.36e5	5.65e5	101	1.2	1.48	bb
4	190628K2_4	100	0.44	NO	43.68	0.927	1.01e6	6.91e5	100	0.0	1.46	bb
5	190628K2_5	100	0.44	NO	43.68	0.927	1.06e6	7.27e5	99.9	-0.1	1.46	bb
6	190628K2_6	100	0.45	NO	43.68	0.927	8.78e5	6.21e5	96.7	-3.3	1.41	bb

**Compound name: 13C-PCB-180**

Response Factor: 0.931916

RRF SD: 0.019065, Relative SD: 2.04579

Response type: Internal Std ( Ref 218 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	100	0.45	NO	50.40	1.070	5.87e5	6.10e5	103	3.3	0.962	bb
2	190628K2_2	100	0.46	NO	50.40	1.070	5.46e5	5.90e5	99.4	-0.6	0.926	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

Last Altered: Saturday, June 29, 2019 12:47:58 Pacific Daylight Time

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**Compound name: 13C-PCB-180**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	100	0.46	NO	50.40	1.070	5.34e5	5.65e5	102	1.5	0.946	bd
4	190628K2_4	100	0.44	NO	50.39	1.069	6.42e5	6.91e5	99.7	-0.3	0.929	bd
5	190628K2_5	100	0.46	NO	50.39	1.069	6.63e5	7.27e5	97.8	-2.2	0.912	bb
6	190628K2_6	100	0.44	NO	50.39	1.069	5.69e5	6.21e5	98.3	-1.7	0.916	bb

**Compound name: 13C-PCB-170**

Response Factor: 0.795673

RRF SD: 0.015612, Relative SD: 1.96211

Response type: Internal Std ( Ref 218 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	0.46	NO	52.05	1.105	4.96e5	6.10e5	102	2.0	0.812	bb
2	190628K2_2	100	0.47	NO	52.05	1.105	4.64e5	5.90e5	98.9	-1.1	0.787	bb
3	190628K2_3	100	0.46	NO	52.05	1.105	4.62e5	5.65e5	103	2.9	0.819	bb
4	190628K2_4	100	0.45	NO	52.05	1.105	5.46e5	6.91e5	99.4	-0.6	0.791	bb
5	190628K2_5	100	0.45	NO	52.05	1.105	5.68e5	7.27e5	98.3	-1.7	0.782	bb
6	190628K2_6	100	0.46	NO	52.05	1.105	4.87e5	6.21e5	98.6	-1.4	0.784	bb

**Compound name: 13C-PCB-189**

Response Factor: 1.09024

RRF SD: 0.02747, Relative SD: 2.51964

Response type: Internal Std ( Ref 218 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	0.45	NO	53.74	1.140	6.83e5	6.10e5	103	2.7	1.12	bb
2	190628K2_2	100	0.45	NO	53.74	1.140	6.20e5	5.90e5	96.4	-3.6	1.05	bb
3	190628K2_3	100	0.46	NO	53.74	1.140	6.19e5	5.65e5	100	0.5	1.10	bb
4	190628K2_4	100	0.45	NO	53.74	1.140	7.60e5	6.91e5	101	0.8	1.10	bb
5	190628K2_5	100	0.45	NO	53.74	1.140	8.09e5	7.27e5	102	2.1	1.11	bb
6	190628K2_6	100	0.44	NO	53.72	1.140	6.60e5	6.21e5	97.5	-2.5	1.06	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: 13C-PCB-202**

Response Factor: 1.45045

RRF SD: 0.0520831, Relative SD: 3.59082

Response type: Internal Std ( Ref 218 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	100	0.93	NO	49.29	1.042	9.24e5	6.10e5	104	4.4	1.51	bb
2	190628K2_2	100	0.92	NO	49.29	1.042	8.73e5	5.90e5	102	2.1	1.48	bb
3	190628K2_3	100	0.93	NO	49.29	1.042	8.36e5	5.65e5	102	2.1	1.48	bb
4	190628K2_4	100	0.92	NO	49.29	1.042	9.80e5	6.91e5	97.8	-2.2	1.42	bb
5	190628K2_5	100	0.93	NO	49.29	1.042	9.96e5	7.27e5	94.5	-5.5	1.37	bb
6	190628K2_6	100	0.94	NO	49.27	1.042	8.93e5	6.21e5	99.1	-0.9	1.44	bb

**Compound name: 13C-PCB-194**

Response Factor: 0.713578

RRF SD: 0.0152843, Relative SD: 2.14192

Response type: Internal Std ( Ref 219 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	100	0.88	NO	55.33	0.995	5.94e5	8.28e5	100	0.5	0.717	bb
2	190628K2_2	100	0.89	NO	55.33	0.995	5.44e5	7.49e5	102	1.7	0.726	bb
3	190628K2_3	100	0.92	NO	55.34	0.995	5.50e5	7.62e5	101	1.1	0.721	bb
4	190628K2_4	100	0.90	NO	55.33	0.995	6.70e5	9.53e5	98.5	-1.5	0.703	bb
5	190628K2_5	100	0.90	NO	55.33	0.995	7.05e5	1.02e6	96.4	-3.6	0.688	bb
6	190628K2_6	100	0.90	NO	55.33	0.995	5.96e5	8.20e5	102	1.9	0.727	bb

**Compound name: 13C-PCB-208**

Response Factor: 0.896051

RRF SD: 0.031901, Relative SD: 3.56018

Response type: Internal Std ( Ref 219 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	100	0.78	NO	54.58	0.982	7.59e5	8.28e5	102	2.3	0.917	bb
2	190628K2_2	100	0.78	NO	54.58	0.982	7.01e5	7.49e5	104	4.3	0.935	bb



Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: 13C-PCB-208**

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
190628K2_3	100	0.77	NO	54.58	0.982	6.91e5	7.62e5	101	1.2	0.907	bb
190628K2_4	100	0.77	NO	54.58	0.982	8.36e5	9.53e5	97.9	-2.1	0.877	bb
190628K2_5	100	0.80	NO	54.58	0.982	8.64e5	1.02e6	94.2	-5.8	0.844	bb
190628K2_6	100	0.79	NO	54.56	0.982	7.35e5	8.20e5	100	0.1	0.897	bb

**Compound name: 13C-PCB-206**

Response Factor: 0.652605

RRF SD: 0.0173981, Relative SD: 2.66595

Response type: Internal Std ( Ref 219 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
190628K2_1	100	0.78	NO	56.86	1.023	5.58e5	8.28e5	103	3.2	0.673	bb
190628K2_2	100	0.79	NO	56.86	1.023	4.86e5	7.49e5	99.4	-0.6	0.648	bb
190628K2_3	100	0.80	NO	56.86	1.023	5.08e5	7.62e5	102	2.1	0.666	bb
190628K2_4	100	0.78	NO	56.86	1.023	6.25e5	9.53e5	100	0.5	0.656	bb
190628K2_5	100	0.79	NO	56.86	1.023	6.39e5	1.02e6	95.6	-4.4	0.624	bb
190628K2_6	100	0.80	NO	56.86	1.023	5.31e5	8.20e5	99.3	-0.7	0.648	bb

**Compound name: 13C-PCB-209**

Response Factor: 0.805524

RRF SD: 0.0223175, Relative SD: 2.77056

Response type: Internal Std ( Ref 219 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
190628K2_1	100	1.18	NO	58.08	1.044	6.89e5	8.28e5	103	3.3	0.832	bb
190628K2_2	100	1.23	NO	58.08	1.044	5.90e5	7.49e5	97.7	-2.3	0.787	bb
190628K2_3	100	1.20	NO	58.08	1.044	6.36e5	7.62e5	104	3.6	0.835	bb
190628K2_4	100	1.22	NO	58.08	1.044	7.64e5	9.53e5	99.6	-0.4	0.802	bb
190628K2_5	100	1.21	NO	58.08	1.044	8.04e5	1.02e6	97.5	-2.5	0.785	bb
190628K2_6	100	1.19	NO	58.08	1.045	6.50e5	8.20e5	98.4	-1.6	0.792	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: 13C-PCB-15**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 213 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.58	NO	26.15	0.000	1.81e6	1.81e6	100	0.0	1.00	bb
2	190628K2_2	100	1.61	NO	26.16	0.000	1.78e6	1.78e6	100	0.0	1.00	bb
3	190628K2_3	100	1.60	NO	26.16	0.000	1.70e6	1.70e6	100	0.0	1.00	bb
4	190628K2_4	100	1.58	NO	26.15	0.000	2.17e6	2.17e6	100	0.0	1.00	bb
5	190628K2_5	100	1.59	NO	26.15	0.000	2.27e6	2.27e6	100	0.0	1.00	bb
6	190628K2_6	100	1.59	NO	26.15	0.000	1.81e6	1.81e6	100	0.0	1.00	bb

**Compound name: 13C-PCB-31**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 214 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	0.99	NO	29.32	0.000	1.53e6	1.53e6	100	0.0	1.00	bd
2	190628K2_2	100	0.98	NO	29.32	0.000	1.45e6	1.45e6	100	0.0	1.00	bd
3	190628K2_3	100	1.00	NO	29.32	0.000	1.37e6	1.37e6	100	0.0	1.00	bd
4	190628K2_4	100	0.98	NO	29.32	0.000	1.78e6	1.78e6	100	0.0	1.00	bd
5	190628K2_5	100	0.97	NO	29.32	0.000	1.83e6	1.83e6	100	0.0	1.00	bd
6	190628K2_6	100	0.97	NO	29.32	0.000	1.39e6	1.39e6	100	0.0	1.00	bd

**Compound name: 13C-PCB-60**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	0.78	NO	37.37	0.000	1.25e6	1.25e6	100	0.0	1.00	bb
2	190628K2_2	100	0.78	NO	37.37	0.000	1.22e6	1.22e6	100	0.0	1.00	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

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**Compound name: 13C-PCB-60**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	100	0.76	NO	37.37	0.000	1.16e6	1.16e6	100	0.0	1.00	bb
4	190628K2_4	100	0.77	NO	37.37	0.000	1.47e6	1.47e6	100	0.0	1.00	bb
5	190628K2_5	100	0.78	NO	37.37	0.000	1.55e6	1.55e6	100	0.0	1.00	bb
6	190628K2_6	100	0.77	NO	37.37	0.000	1.25e6	1.25e6	100	0.0	1.00	bb

**Compound name: 13C-PCB-111**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 216 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.58	NO	39.94	0.000	1.16e6	1.16e6	100	0.0	1.00	bb
2	190628K2_2	100	1.56	NO	39.94	0.000	1.13e6	1.13e6	100	0.0	1.00	bb
3	190628K2_3	100	1.64	NO	39.94	0.000	1.08e6	1.08e6	100	0.0	1.00	bb
4	190628K2_4	100	1.62	NO	39.94	0.000	1.37e6	1.37e6	100	0.0	1.00	bb
5	190628K2_5	100	1.62	NO	39.94	0.000	1.41e6	1.41e6	100	0.0	1.00	bb
6	190628K2_6	100	1.61	NO	39.94	0.000	1.17e6	1.17e6	100	0.0	1.00	bb

**Compound name: 13C-PCB-128**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	1.25	NO	47.32	0.000	6.32e5	6.32e5	100	0.0	1.00	db
2	190628K2_2	100	1.23	NO	47.32	0.000	6.11e5	6.11e5	100	0.0	1.00	bb
3	190628K2_3	100	1.26	NO	47.32	0.000	5.87e5	5.87e5	100	0.0	1.00	db
4	190628K2_4	100	1.27	NO	47.32	0.000	7.19e5	7.19e5	100	0.0	1.00	db
5	190628K2_5	100	1.26	NO	47.32	0.000	7.49e5	7.49e5	100	0.0	1.00	db
6	190628K2_6	100	1.28	NO	47.30	0.000	6.54e5	6.54e5	100	0.0	1.00	db

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

Last Altered: Saturday, June 29, 2019 12:47:58 Pacific Daylight Time

Printed: Saturday, June 29, 2019 13:00:34 Pacific Daylight Time

**Compound name: 13C-PCB-182**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 218 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	0.44	NO	47.13	0.000	6.10e5	6.10e5	100	0.0	1.00	bb
2	190628K2_2	100	0.45	NO	47.13	0.000	5.90e5	5.90e5	100	0.0	1.00	bb
3	190628K2_3	100	0.45	NO	47.13	0.000	5.65e5	5.65e5	100	0.0	1.00	bb
4	190628K2_4	100	0.46	NO	47.13	0.000	6.91e5	6.91e5	100	0.0	1.00	bb
5	190628K2_5	100	0.46	NO	47.13	0.000	7.27e5	7.27e5	100	0.0	1.00	bb
6	190628K2_6	100	0.44	NO	47.13	0.000	6.21e5	6.21e5	100	0.0	1.00	bd

**Compound name: 13C-PCB-205**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 219 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	0.91	NO	55.60	0.000	8.28e5	8.28e5	100	0.0	1.00	bb
2	190628K2_2	100	0.89	NO	55.60	0.000	7.49e5	7.49e5	100	0.0	1.00	bb
3	190628K2_3	100	0.90	NO	55.60	0.000	7.62e5	7.62e5	100	0.0	1.00	bb
4	190628K2_4	100	0.90	NO	55.60	0.000	9.53e5	9.53e5	100	0.0	1.00	bb
5	190628K2_5	100	0.90	NO	55.60	0.000	1.02e6	1.02e6	100	0.0	1.00	bb
6	190628K2_6	100	0.93	NO	55.59	0.000	8.20e5	8.20e5	100	0.0	1.00	bb

**Compound name: 13C-PCB-79**

Response Factor: 1.03196

RRF SD: 0.0189172, Relative SD: 1.83312

Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	0.77	NO	38.47	1.029	1.31e6	1.25e6	102	1.6	1.05	bd
2	190628K2_2	100	0.78	NO	38.47	1.029	1.22e6	1.22e6	97.2	-2.8	1.00	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

Last Altered: Saturday, June 29, 2019 12:47:58 Pacific Daylight Time

Printed: Saturday, June 29, 2019 13:00:34 Pacific Daylight Time

**Compound name: 13C-PCB-79**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190628K2_3	100	0.77	NO	38.49	1.030	1.19e6	1.16e6	98.9	-1.1	1.02	bb
4	190628K2_4	100	0.78	NO	38.47	1.029	1.52e6	1.47e6	99.6	-0.4	1.03	bb
5	190628K2_5	100	0.77	NO	38.47	1.029	1.63e6	1.55e6	102	2.2	1.05	bd
6	190628K2_6	100	0.77	NO	38.47	1.029	1.29e6	1.25e6	101	0.6	1.04	bb

**Compound name: 13C-PCB-178**

Response Factor: 0.874585

RRF SD: 0.0311096, Relative SD: 3.55707

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	0.45	NO	46.58	0.988	5.82e5	6.32e5	105	5.4	0.922	bb
2	190628K2_2	100	0.46	NO	46.58	0.988	5.37e5	6.11e5	101	0.5	0.879	bb
3	190628K2_3	100	0.45	NO	46.58	0.988	5.26e5	5.87e5	102	2.4	0.896	bb
4	190628K2_4	100	0.46	NO	46.58	0.988	6.08e5	7.19e5	96.6	-3.4	0.845	bb
5	190628K2_5	100	0.45	NO	46.58	0.988	6.29e5	7.49e5	96.0	-4.0	0.840	bb
6	190628K2_6	100	0.46	NO	46.56	0.988	5.66e5	6.54e5	99.0	-1.0	0.866	bb

**Compound name: 13C-PCB-79**

Response Factor: 1.03196

RRF SD: 0.0189172, Relative SD: 1.83312

Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	190628K2_1	100	0.76	NO	38.47	0.968	1.31e6	1.24e6	101	1.0	1.06	bb
2	190628K2_2	100	0.78	NO	38.47	0.968	1.22e6	1.19e6	97.9	-2.1	1.02	bb
3	190628K2_3	100	0.78	NO	38.49	0.969	1.18e6	1.14e6	99.2	-0.8	1.04	bb
4	190628K2_4	100	0.78	NO	38.47	0.968	1.52e6	1.46e6	99.6	-0.4	1.04	bb
5	190628K2_5	100	0.77	NO	38.47	0.968	1.63e6	1.53e6	102	2.1	1.07	bb
6	190628K2_6	100	0.78	NO	38.47	0.968	1.29e6	1.23e6	100	0.2	1.05	bb

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-CRV.qld

Last Altered: Saturday, June 29, 2019 12:47:58 Pacific Daylight Time

Printed: Saturday, June 29, 2019 13:00:34 Pacific Daylight Time

**Compound name: 13C-PCB-178**

Response Factor: 0.874585

RRF SD: 0.0311096, Relative SD: 3.55707

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	190628K2_1	100	0.45	NO	46.58	0.924	5.81e5	5.87e5	102	1.6	0.990	bb
2	190628K2_2	100	0.46	NO	46.58	0.924	5.37e5	5.46e5	101	0.9	0.984	bb
3	190628K2_3	100	0.45	NO	46.58	0.924	5.26e5	5.34e5	101	0.9	0.984	bb
4	190628K2_4	100	0.46	NO	46.58	0.924	6.08e5	6.42e5	97.1	-2.9	0.946	bb
5	190628K2_5	100	0.45	NO	46.58	0.924	6.29e5	6.63e5	97.4	-2.6	0.949	bb
6	190628K2_6	100	0.46	NO	46.56	0.924	5.66e5	5.69e5	102	2.1	0.996	bb

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Saturday, June 29, 2019 13:14:13 Pacific Daylight Time

Printed: Saturday, June 29, 2019 13:14:43 Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_6-28-19.mdb 28 Jun 2019 14:45:02

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 12:47:57

Compound name: PCB-1

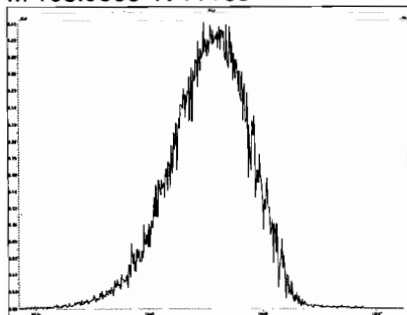
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1	190628K2_1	ST190628K2-1 PCB 209 CS0 19D0801	28-Jun-19	16:32:52
2	190628K2_2	ST190628K2-2 PCB 209 CS1 19C1104	28-Jun-19	17:34:41
3	190628K2_3	ST190628K2-3 PCB 209 CS2 19C1105	28-Jun-19	18:36:12
4	190628K2_4	ST190628K2-4 PCB 209 CS4 19C1107	28-Jun-19	19:38:24
5	190628K2_5	ST190628K2-5 PCB 209 CS5 19C1108	28-Jun-19	20:39:52
6	190628K2_6	ST190628K2-6 PCB 209 CS3 19C1106	28-Jun-19	21:41:21
7	190628K2_7	SS190628K2-1 PCB 209 SS 19C1113	28-Jun-19	22:43:59
8	190628K2_8	B9F0219-BS1 OPR 10	28-Jun-19	23:46:13
9	190628K2_9	B9F0204-BS1 OPR 5	29-Jun-19	00:48:37
10	190628K2_10	B9F0213-BS1 OPR 10	29-Jun-19	01:51:12
11	190628K2_11	B9F0214-BS1 OPR 10	29-Jun-19	02:53:17
12	190628K2_12	SOLVENT BLANK	29-Jun-19	03:54:43
13	190628K2_13	B9F0219-BLK1 Method Blank 10	29-Jun-19	04:56:11
14	190628K2_14	B9F0204-BLK1 Method Blank 5	29-Jun-19	05:58:35
15	190628K2_15	B9F0213-BLK1 Method Blank 10	29-Jun-19	07:00:56
16	190628K2_16	B9F0214-BLK1 Method Blank 10	29-Jun-19	08:02:46

(A) RT, shortage, sensitivity loss

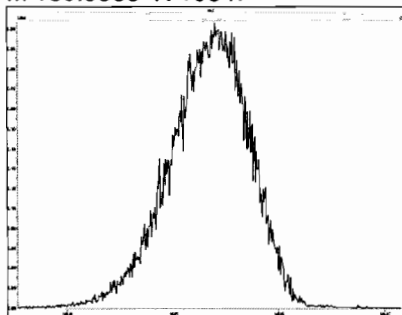
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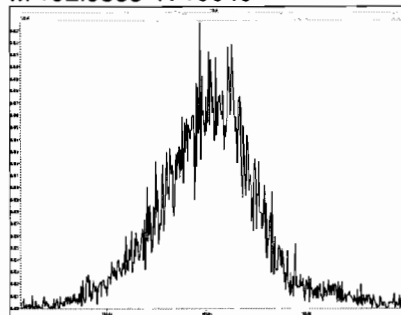
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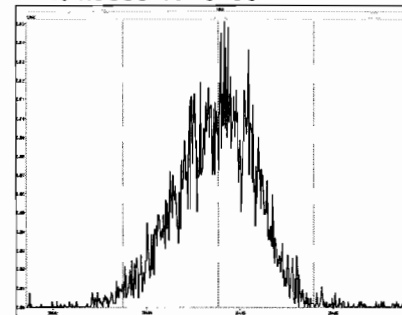
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M 192.9888 R 10040



M 204.9888 R 10730

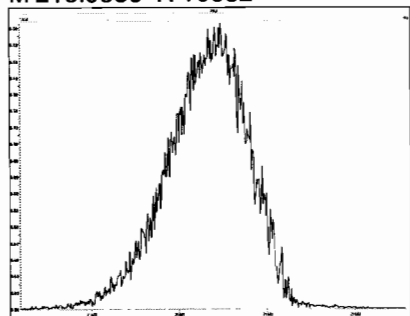




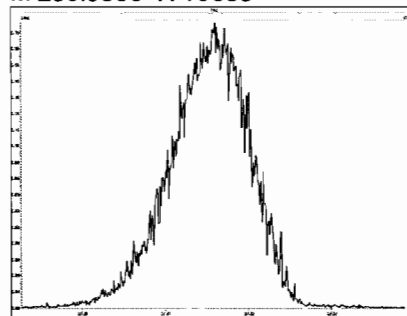
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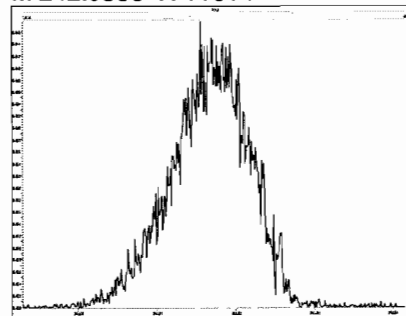
M 218.9856 R 10682



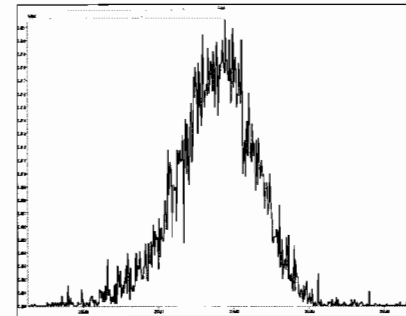
M 230.9856 R 10683



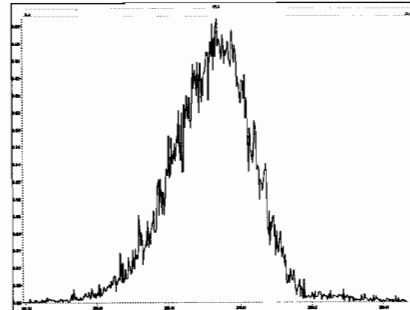
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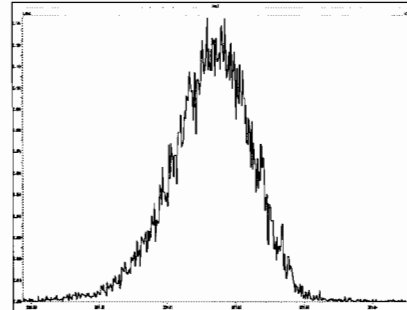
M 254.9856 R 11159



M 268.9824 R 10683



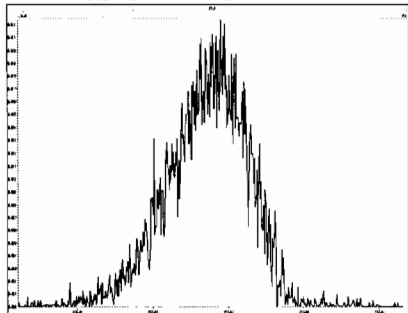
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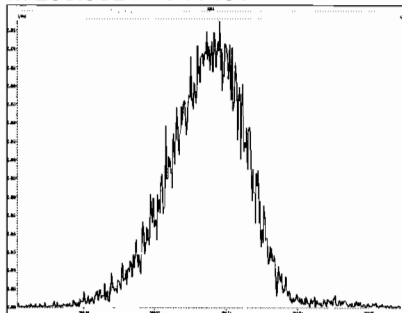
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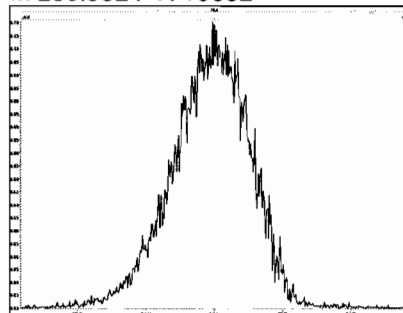
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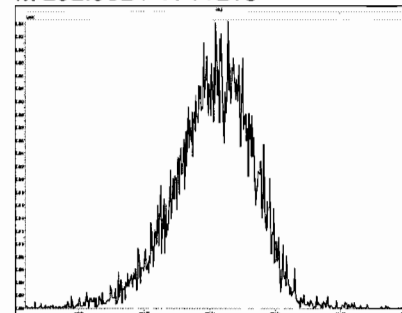
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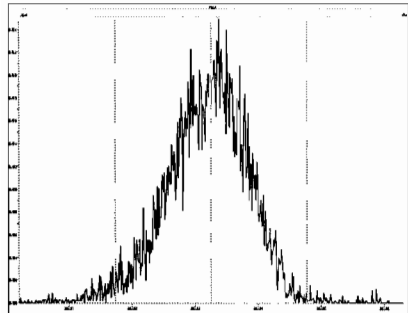
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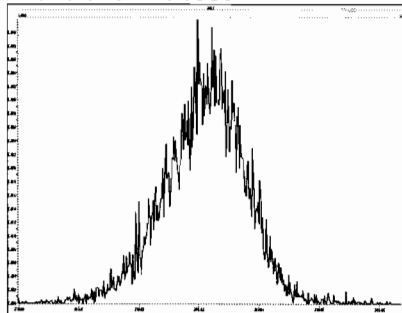
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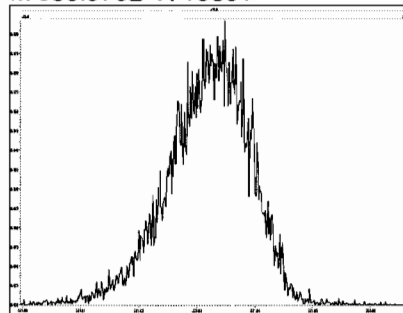
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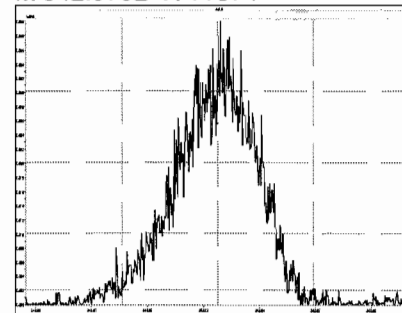
M 318.9792 R 10597



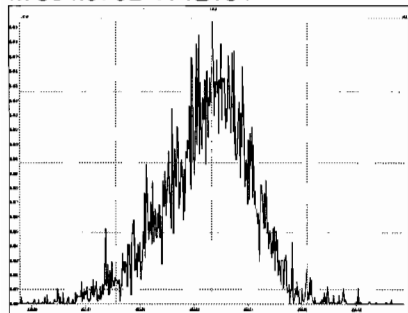
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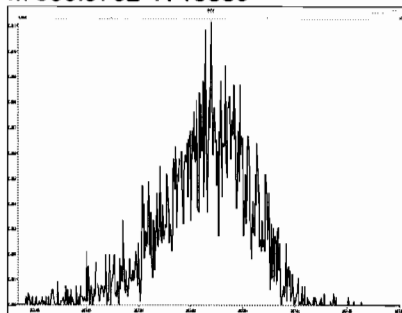
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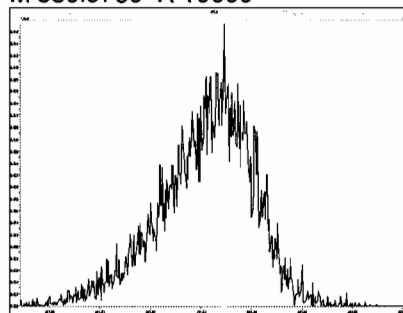
M 354.9792 R 12134



M 366.9792 R 13589



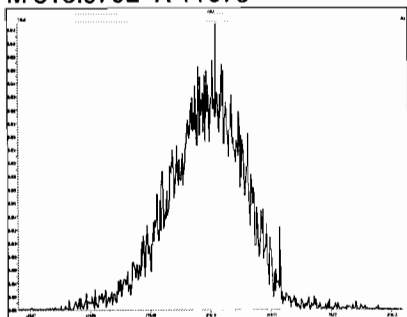
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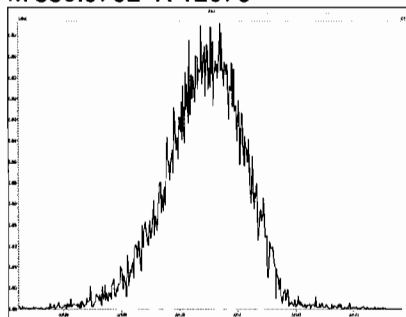
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Printed: Friday, June 28, 2019 16:30:23 Pacific Daylight Time

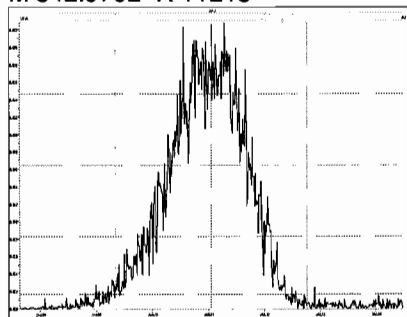
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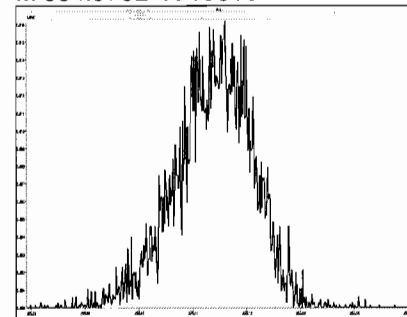
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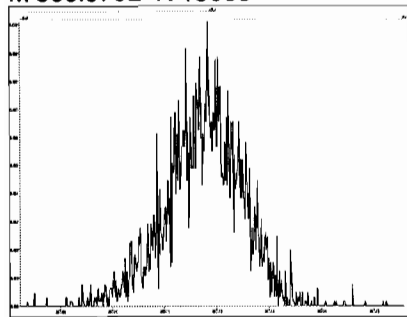
M 342.9792 R 11213



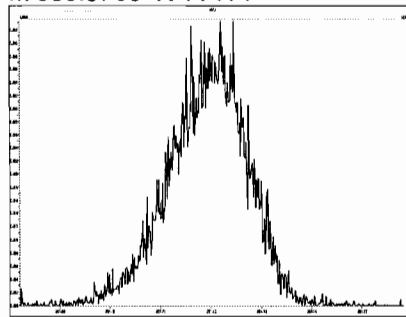
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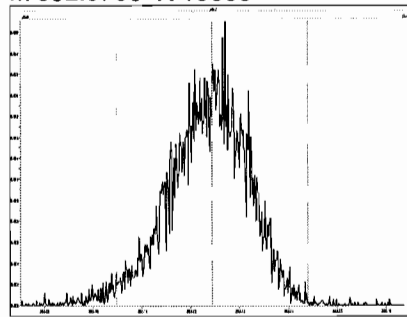
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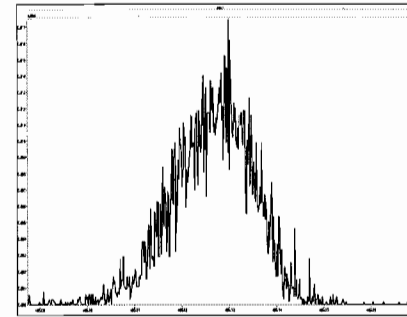
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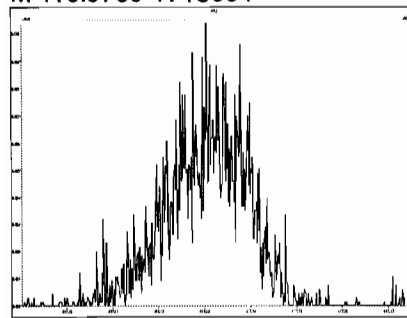
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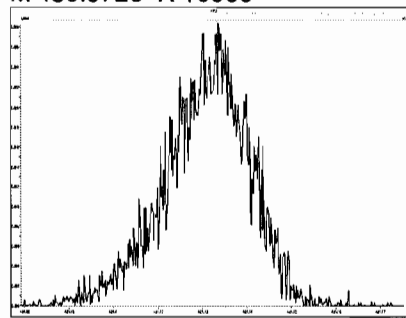
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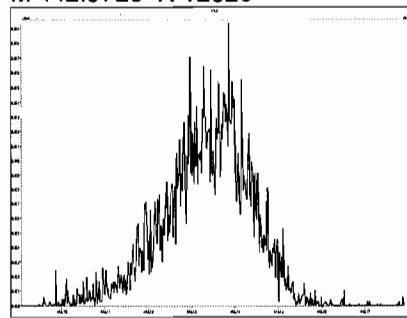
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M 430.9728 R 10966



M 442.9728 R 12626



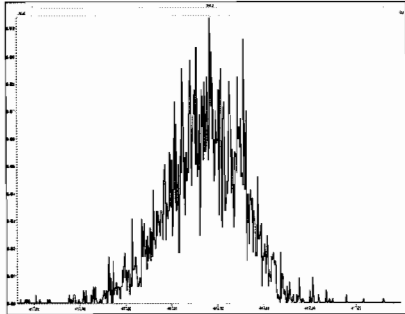
Experiment Calibration Report

MassLynx 4.1 SCN815

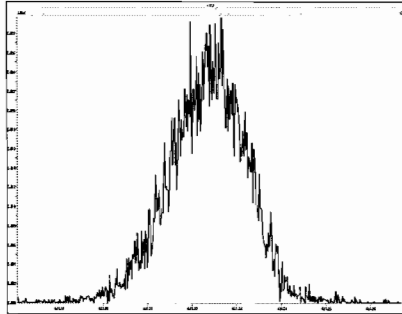
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Printed: Friday, June 28, 2019 16:31:07 Pacific Daylight Time

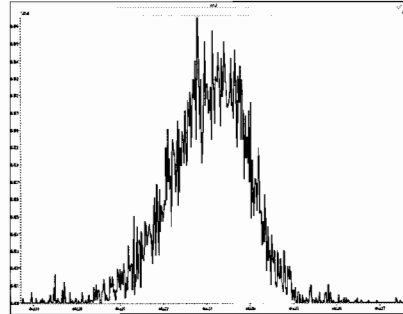
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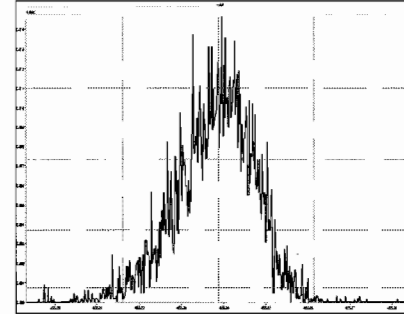
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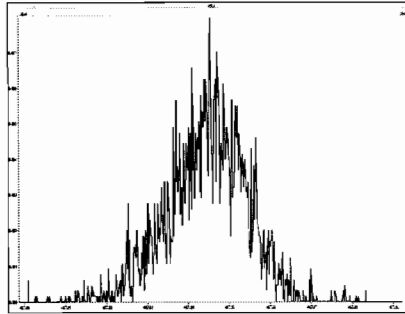
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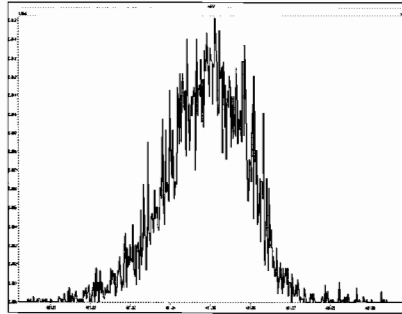
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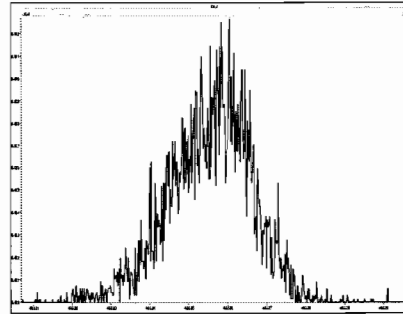
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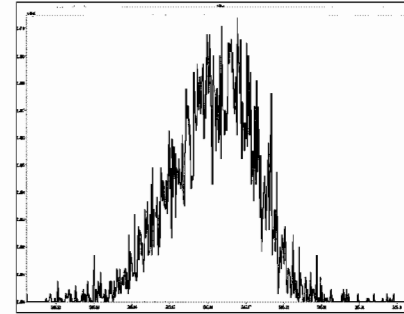
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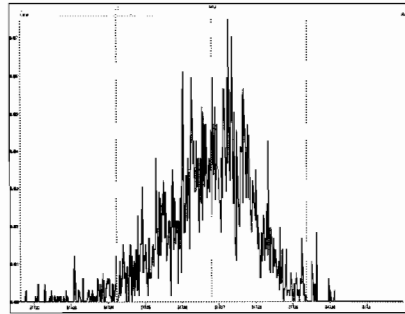
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M 516.9697 R 17006



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Last Altered: Saturday, June 29, 2019 12:04:52 Pacific Daylight Time

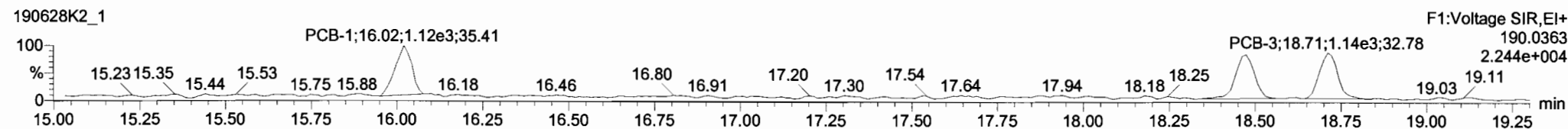
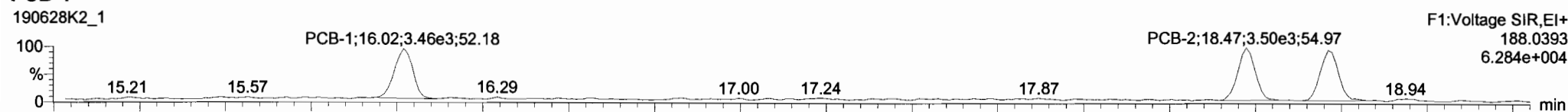
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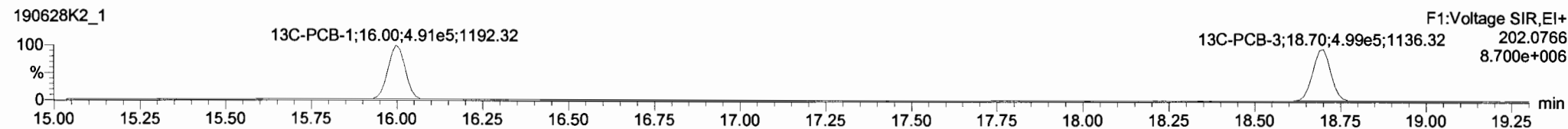
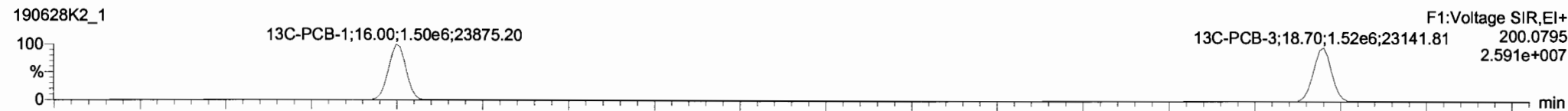
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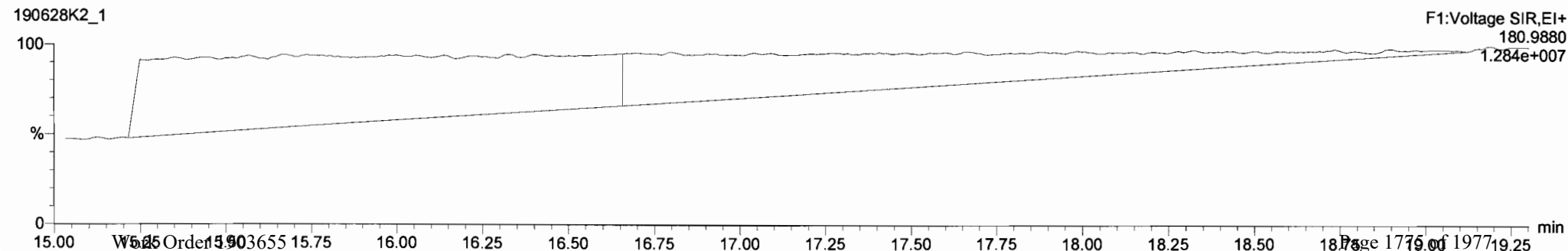
**PCB-1**



**13C-PCB-1**

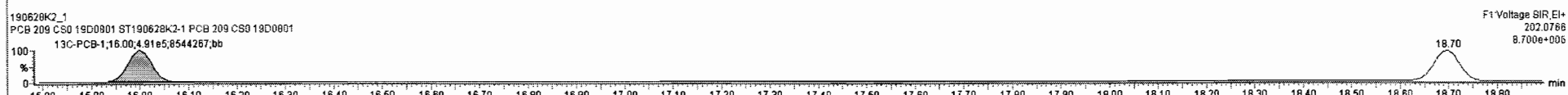
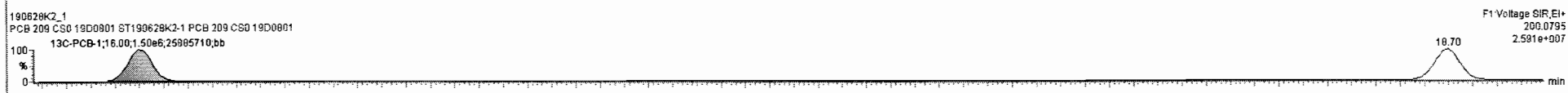
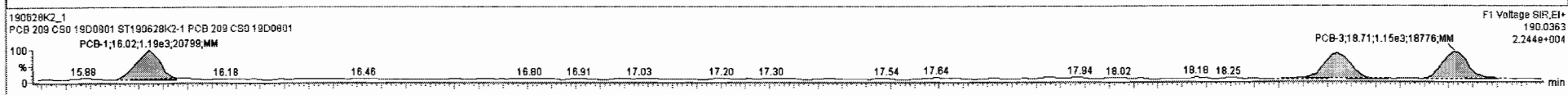
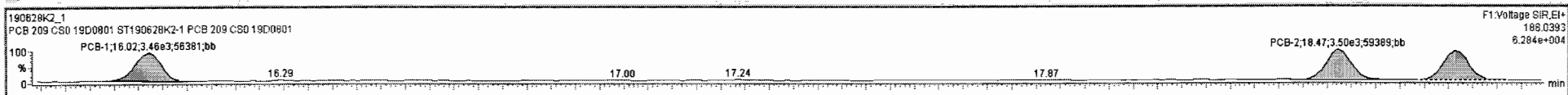


**PFK1**



#	Name	Resp	RA	nly	RRF	wthvl	Pred.RT	RT	Pred.R	RRT	RRT F#	Conc.	%Rec	DL	EMPC
219	13C-PCB-205	8.28e5	0.91	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0453	
220	13C-PCB-79	1.31e6	0.77	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	101.6	102	0.0580	
221	13C-PCB-178	5.82e5	0.45	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	105.4	105	0.0722	
222	13C-PCB-79	1.31e6	0.76	NO	1.0454	1.000	38.46	38.47	0.968	0.968	NO	101.0	101	0.0612	
223	13C-PCB-178	5.81e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	101.6	102	0.0718	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	0.6623		0.0291	0.6620
225	Total Di-PCBs				1.0599	1.000	0.00		0.000		NO	2.759		0.170	2.759
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	1.895		0.0699	1.895
227	3rd Function Tri-PCBs				1.0566	1.000	0.00		0.000		NO	3.738		0.197	3.738
228	Total Tetra-PCBs				0.8959	1.000	0.00		0.000		NO	9.552		0.358	9.552
229	3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	9.622		0.419	9.622
230	4th Function Penta-PCBs				1.1128	1.000	0.00		0.000		NO	1.142		0.0808	1.142
231	3rd Function Hexa-PCBs				0.7740	1.000	0.00		0.000		NO	3.261		0.0621	3.261
232	4th Function Hexa-PCBs				0.9712	1.000	0.00		0.000		NO	6.404		0.202	6.404
233	Total Hepta-PCBs				1.2638	1.000	0.00		0.000		NO	5.554		0.637	5.554

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	nly	EMPC	Conc.
1	3 PCB-3	18.71	18.71	3.490e3	1.152e3	3.130	3.03	NO	0.22800	0.22814
2	2 PCB-2	18.48	18.47	3.501e3	1.106e3	3.130	3.17	NO	0.22600	0.22595
3	1 PCB-1	16.01	16.02	3.462e3	1.185e3	3.130	2.92	NO	0.22800	0.22820

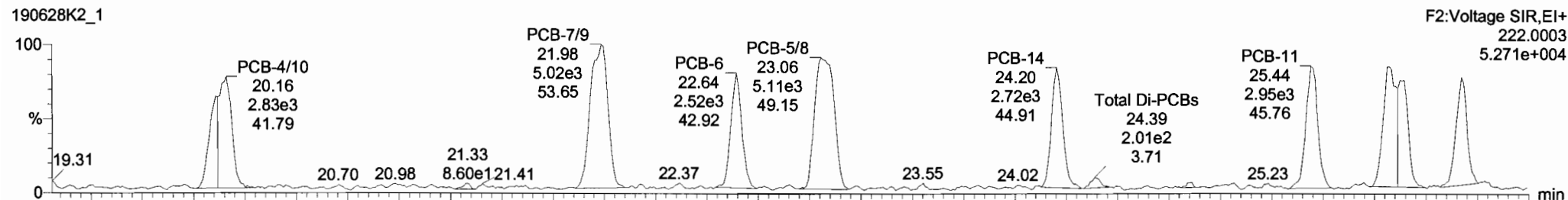


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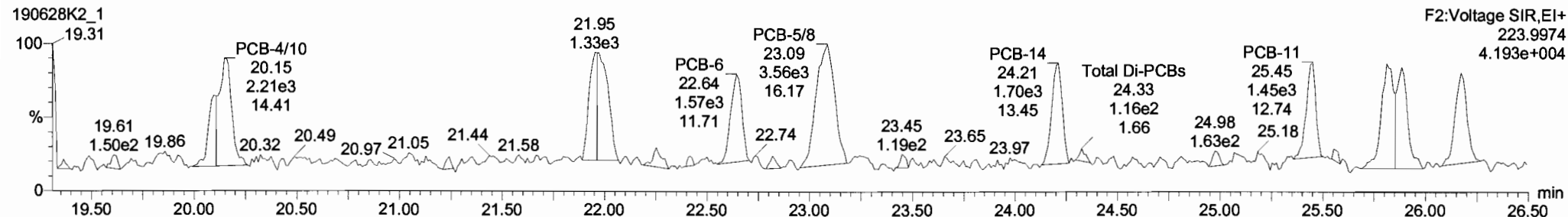
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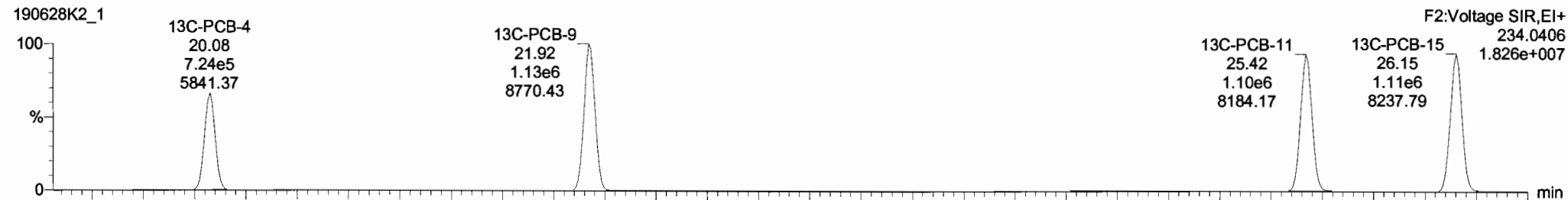
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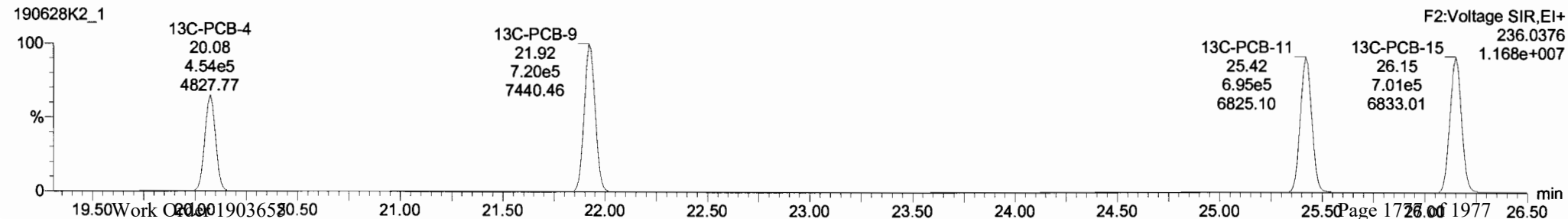
**190628K2\_1**



**13C-PCB-4**

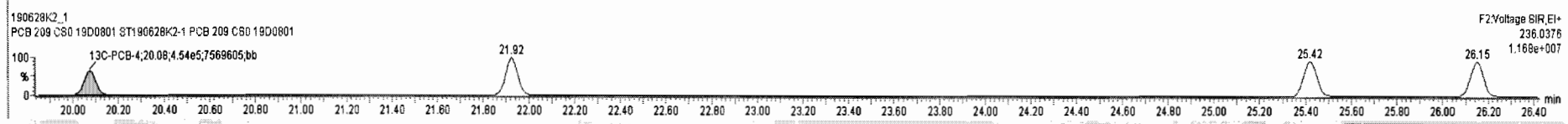
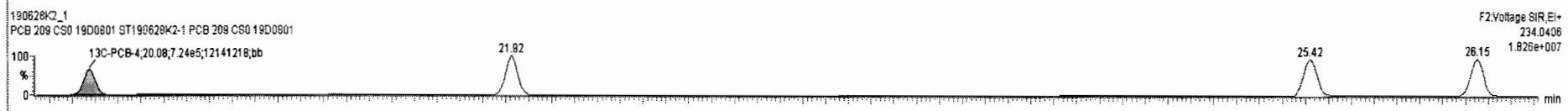
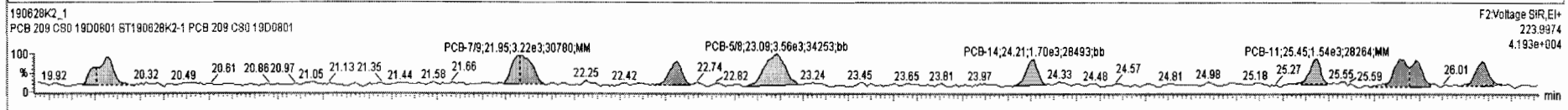
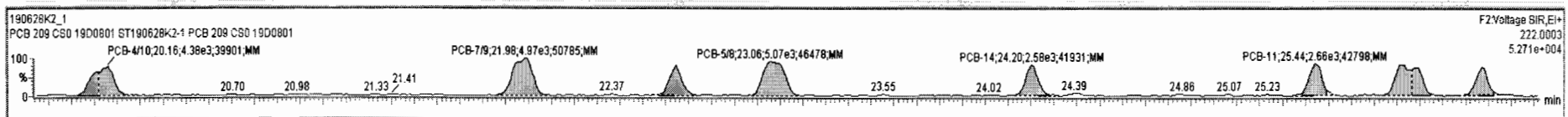


**190628K2\_1**



#	Name	Resp	RA	n/y	RRF	wt/val	Pred_RT	RT	Pred_R...	RRT	PRT Fail	Conc.	%Rec	DL	EMPC
219	219 13C-PCB-205	8.29e5	0.91	NO	1.0000	1.000	55.80	55.80	1.000	0.000	NO	100.0	100	0.0453	
220	220 13C-PCB-79	1.31e6	0.77	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	101.6	102	0.0590	
221	221 13C-PCB-178	5.82e5	0.45	NO	0.8746	1.000	46.59	46.56	0.988	0.988	NO	105.4	105	0.0722	
222	222 13C-PCB-79	1.31e6	0.76	NO	1.0454	1.000	38.46	38.47	0.988	0.988	NO	101.0	101	0.0612	
223	223 13C-PCB-178	5.81e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	101.6	102	0.0718	
224	224 Total Mono-PCBs				1.0122	1.000	0.00	0.00	0.000	0.000	NO	0.8823	0.0291	0.6823	
225	225 Total Di-PCBs				1.0592	1.000	0.00	0.00	0.000	0.000	NO	2.753	0.170	2.753	
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00	0.00	0.000	0.000	NO	1.895	0.0699	1.895	
227	227 3rd Function Tri-PCBs				1.0586	1.000	0.00	0.00	0.000	0.000	NO	3.738	0.197	3.738	
228	228 Total Tetra-PCBs				0.9859	1.000	0.00	0.00	0.000	0.000	NO	9.552	0.358	9.552	
229	229 3rd Function Penta-PCBs				1.1152	1.000	0.00	0.00	0.000	0.000	NO	9.374	0.418	9.594	
230	230 4th Function Penta-PCBs				1.1126	1.000	0.00	0.00	0.000	0.000	NO	1.142	0.0808	1.142	
231	231 3rd Function Hexa-PCBs				0.7740	1.000	0.00	0.00	0.000	0.000	NO	3.261	0.0621	3.261	
232	232 4th Function Hexa-PCBs				0.9712	1.000	0.00	0.00	0.000	0.000	NO	6.404	0.202	6.404	
233	233 Total Hepta-PCBs				1.2638	1.000	0.00	0.00	0.000	0.000	NO	5.554	0.637	5.554	

#	Name	Pred_RT	RT	Int Resp	m2 Resp	I* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	4 PCB-4/70	20.16	20.16	4.379e3	2.894e3	1.560	1.52	NO	0.48375	0.48375
2	11 PCB-15	26.17	26.17	2.310e3	1.706e3	1.560	1.35	NO	0.21728	0.21728
3	10 PCB-12/13	25.81	25.82	5.136e3	3.836e3	1.560	1.41	NO	0.47057	0.47057
4	9 PCB-11	25.44	25.44	2.659e3	1.540e3	1.560	1.72	NO	0.21297	0.21297
5	8 PCB-14	24.21	24.20	2.580e3	1.701e3	1.560	1.52	NO	0.23059	0.23059
6	7 PCB-5/8	23.04	23.06	5.067e3	3.561e3	1.560	1.42	NO	0.48129	0.48129
7	6 PCB-6	22.63	22.64	2.519e3	1.679e3	1.560	1.50	NO	0.22307	0.22307
8	5 PCB-7/9	21.98	21.98	4.967e3	3.219e3	1.560	1.54	NO	0.45335	0.45335





Vista Analytical Laboratory VG-11

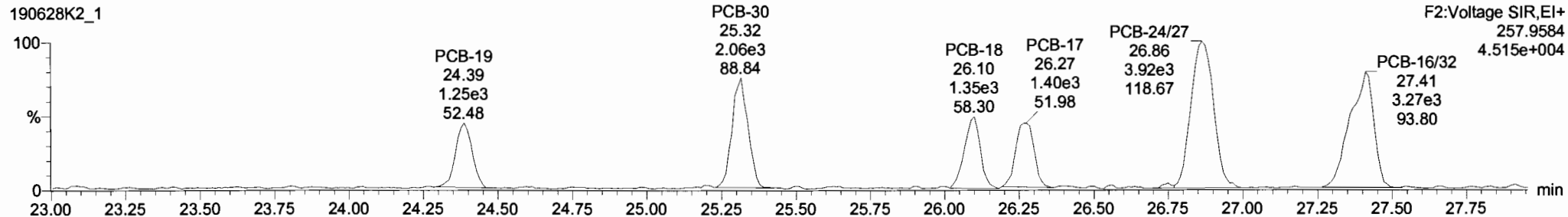
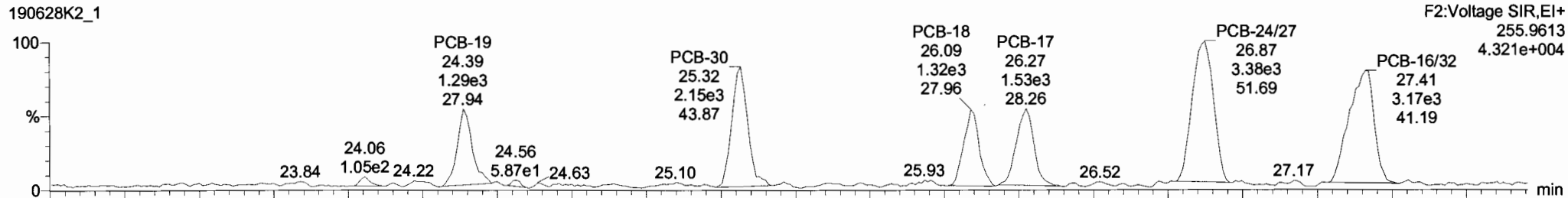
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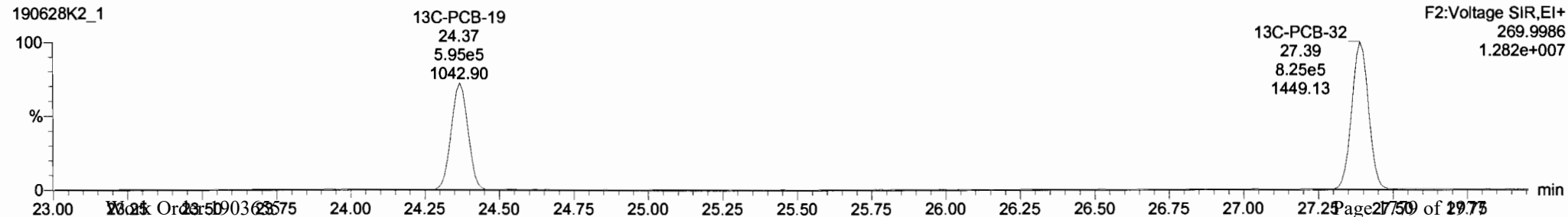
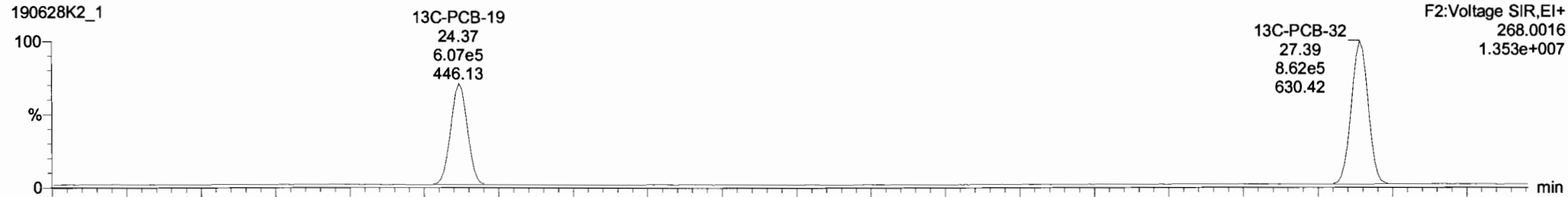
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PCB-19



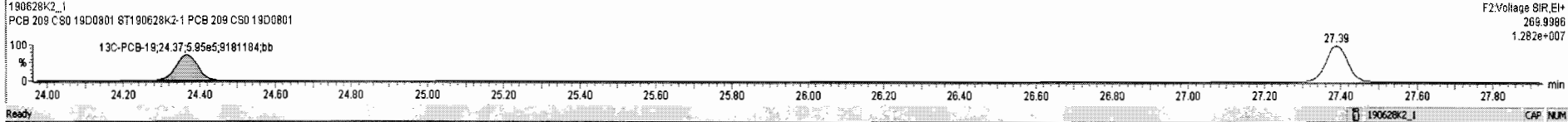
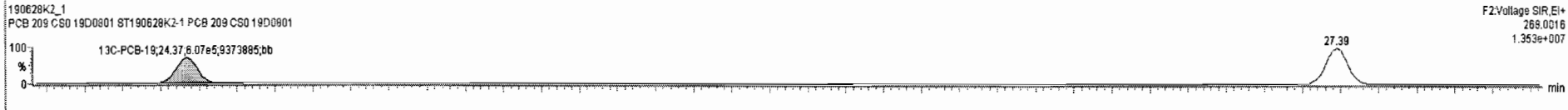
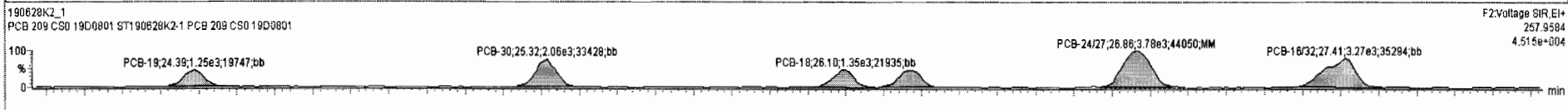
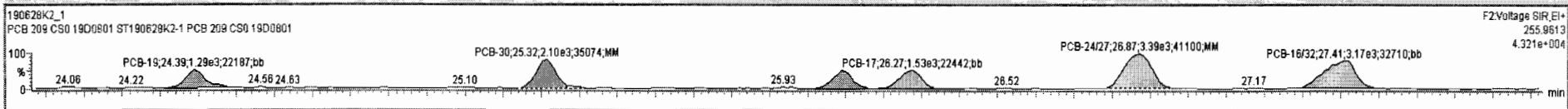
13C-PCB-19



190628K2\_1 - ST190628K2.1 PCB 209 CS0 19D0801 - PCB 209 CS0 19D0801

#	Name	Resp	RA	n/y	RRF	Wt/Cl	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
219	13C-PCB-205	8.28e5	0.91	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0453	
220	13C-PCB-79	1.31e6	0.77	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	101.6	102	0.0590	
221	13C-PCB-178	5.82e5	0.45	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	105.4	105	0.0722	
222	13C-PCB-79	1.31e6	0.78	NO	1.0454	1.000	38.46	38.47	0.988	0.988	NO	101.0	101	0.0612	
223	13C-PCB-178	5.81e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	101.6	102	0.0718	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	0.6823		0.0291	0.6823
225	Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	2.753		0.170	2.753
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	1.895		0.0699	1.895
227	3rd Function Tri-PCBs				1.0586	1.000	0.00		0.000		NO	3.736		0.197	3.736
228	Total Tetra-PCBs				0.9859	1.000	0.00		0.000		NO	9.552		0.358	9.552
229	3rd Function Penta-PCBs				1.1152	1.000	0.00		0.000		NO	9.374		0.418	9.594
230	4th Function Penta-PCBs				1.1128	1.000	0.00		0.000		NO	1.142		0.0808	1.142
231	3rd Function Hexa-PCBs				0.7740	1.000	0.00		0.000		NO	3.261		0.0621	3.261
232	4th Function Hexa-PCBs				0.9712	1.000	0.00		0.000		NO	6.404		0.202	6.404
233	Total Hepta-PCBs				1.2638	1.000	0.00		0.000		NO	5.554		0.637	5.554

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	17 PCB-16/32	27.41	27.41	3.165e3	3.272e3	1.040	0.97	NO	0.48165	0.48165
2	16 PCB-24/27	26.87	26.87	3.397e3	3.777e3	1.040	0.90	NO	0.46444	0.46444
3	15 PCB-17	26.27	26.27	1.532e3	1.400e3	1.040	1.09	NO	0.26071	0.26071
4	14 PCB-16	26.10	26.08	1.319e3	1.347e3	1.040	0.98	NO	0.22804	0.22804
5	13 PCB-30	25.32	25.32	2.095e3	2.064e3	1.040	1.02	NO	0.23359	0.23359
6	12 PCB-19	24.40	24.39	1.287e3	1.254e3	1.040	1.03	NO	0.22619	0.22619

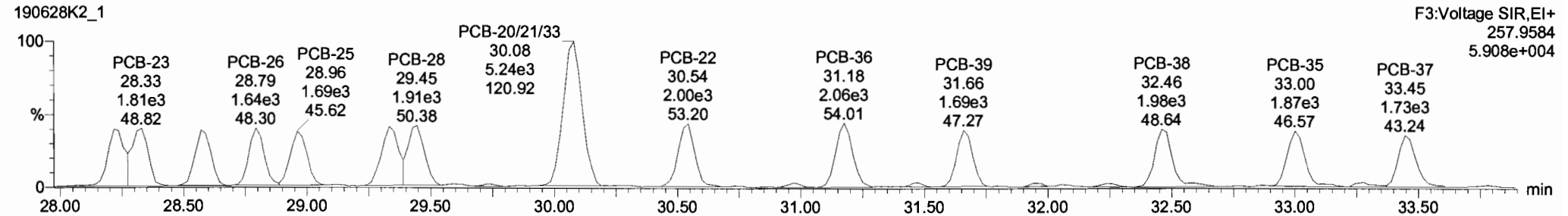
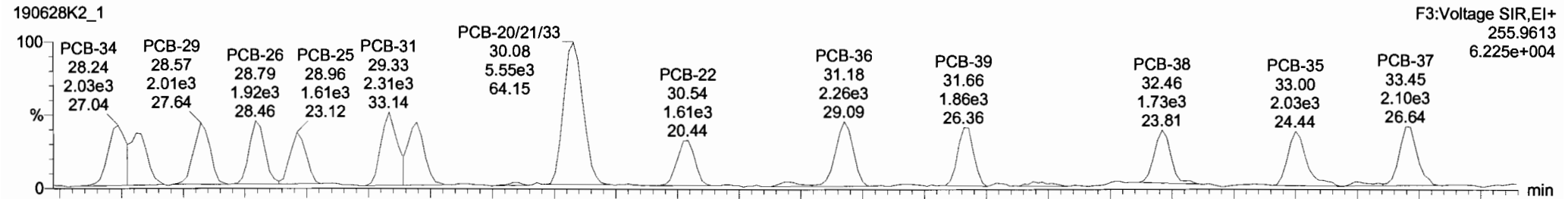


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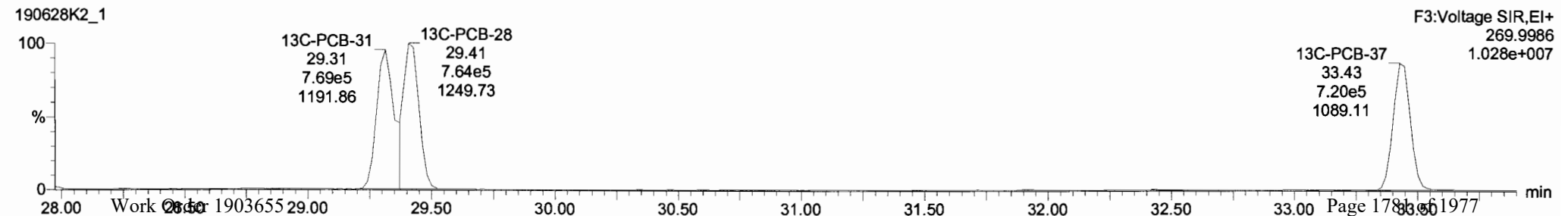
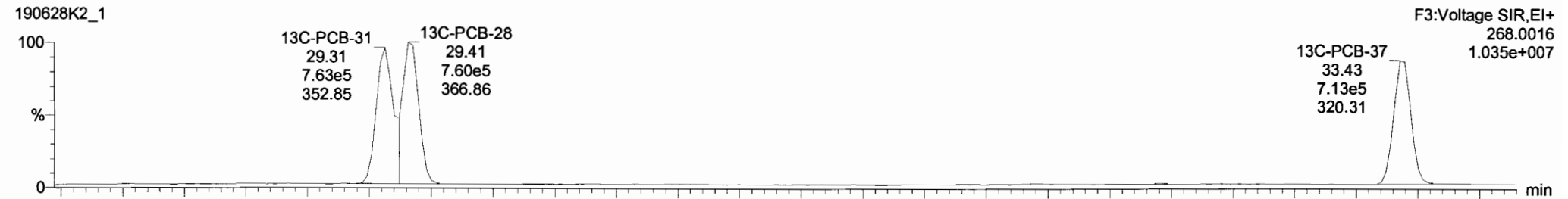
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Name: 190628K2\_1, Date: 28-Jun-2019, Time: 16:32:52, ID: ST190628K2-1 PCB 209 CS0 19D0801, Description: PCB 209 CS0 19D0801

**PCB-34**

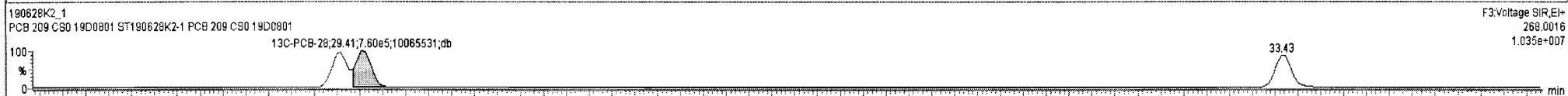
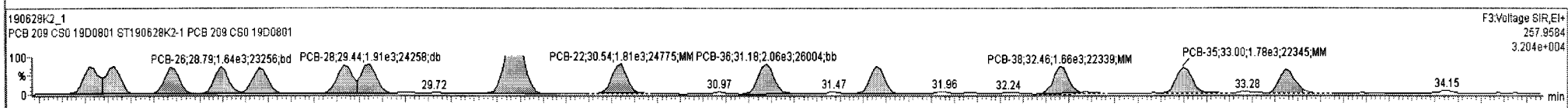
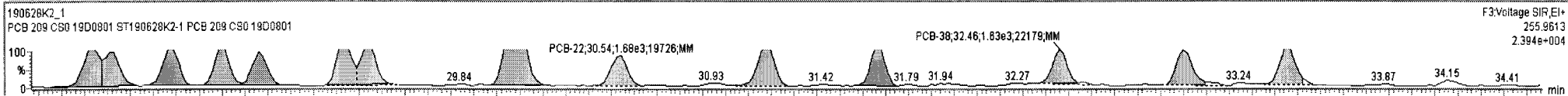


**13C-PCB-28**



#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.RT	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
219	219 13C-PCB-205	8.28e5	0.91	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0453	
220	220 13C-PCB-79	1.31e6	0.77	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	101.6	102	0.0590	
221	221 13C-PCB-178	5.82e5	0.45	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	105.4	105	0.0722	
222	222 13C-PCB-79	1.31e6	0.76	NO	1.0454	1.000	38.46	38.47	0.968	0.968	NO	101.0	101	0.0612	
223	223 13C-PCB-178	5.81e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	101.6	102	0.0718	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	0.6823		0.0281	0.6823
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	2.753		0.170	2.753
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	1.895		0.0699	1.895
227	227 3rd Function Tri-PCBs				1.0566	1.000	0.00		0.000		NO	3.738		0.197	3.738
228	228 Total Tetra-PCBs				0.9859	1.000	0.00		0.000		NO	9.552		0.358	9.552
229	229 3rd Function Penta-PCBs				1.1152	1.000	0.00		0.000		NO	9.374		0.418	9.594
230	230 4th Function Penta-PCBs				1.1128	1.000	0.00		0.000		NO	1.142		0.0808	1.142
231	231 3rd Function Hexa-PCBs				0.7740	1.000	0.00		0.000		NO	3.261		0.0621	3.261
232	232 4th Function Hexa-PCBs				0.9712	1.000	0.00		0.000		NO	6.404		0.202	6.404
233	233 Total Hepta-PCBs				1.2638	1.000	0.00		0.000		NO	5.554		0.637	5.554

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	22 PCB-25	28.96	28.96	1.606e3	1.690e3	1.040	0.95	NO	0.22115	0.22115
2	21 PCB-26	28.79	28.79	1.925e3	1.640e3	1.040	1.17	NO	0.23367	0.23367
3	20 PCB-29	28.57	28.57	2.009e3	1.714e3	1.040	1.17	NO	0.25619	0.25619
4	19 PCB-23	28.31	28.31	1.813e3	1.812e3	1.040	1.00	NO	0.24419	0.24419
5	18 PCB-34	28.22	28.24	2.026e3	1.804e3	1.040	1.12	NO	0.25451	0.25451
6	31 PCB-37	33.46	33.45	1.941e3	1.647e3	1.040	1.19	NO	0.22543	0.22543
7	30 PCB-35	33.00	33.00	1.828e3	1.781e3	1.040	1.03	NO	0.22240	0.22240
8	29 PCB-38	32.46	32.46	1.630e3	1.661e3	1.040	0.98	NO	0.20349	0.20349
9	28 PCB-39	31.65	31.66	1.860e3	1.687e3	1.040	1.10	NO	0.22823	0.22823

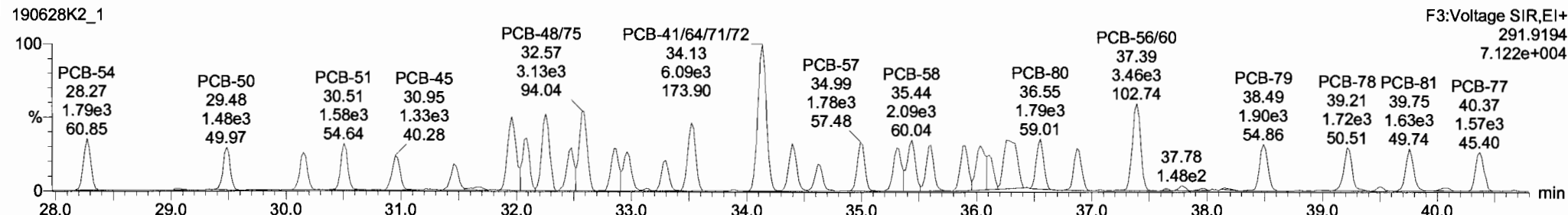
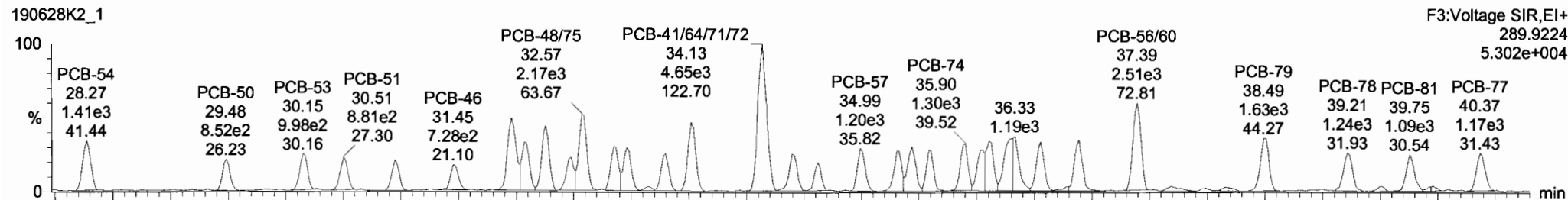


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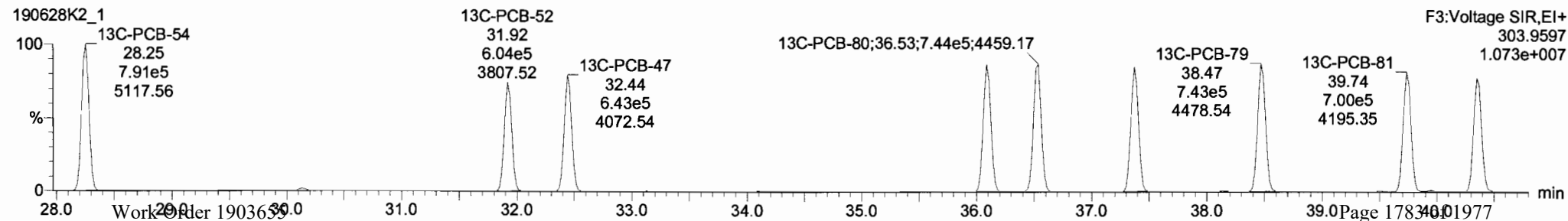
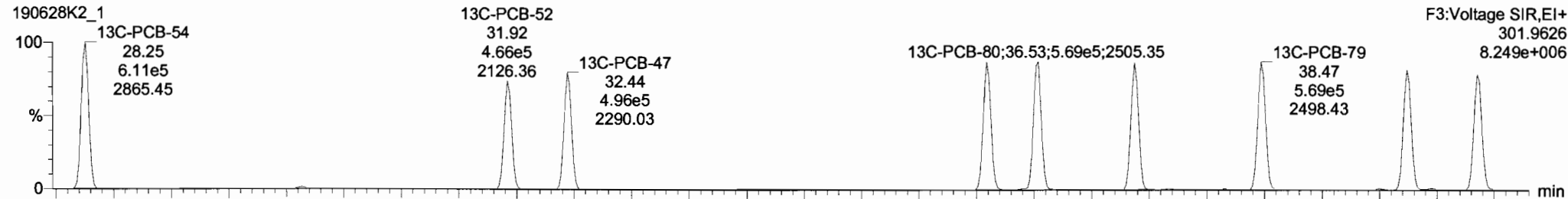
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Name: 190628K2\_1, Date: 28-Jun-2019, Time: 16:32:52, ID: ST190628K2-1 PCB 209 CS0 19D0801, Description: PCB 209 CS0 19D0801

**PCB-54**



**13C-PCB-54**

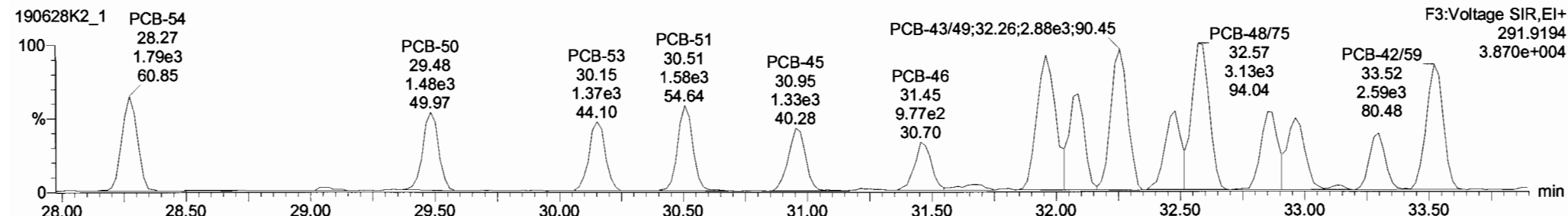
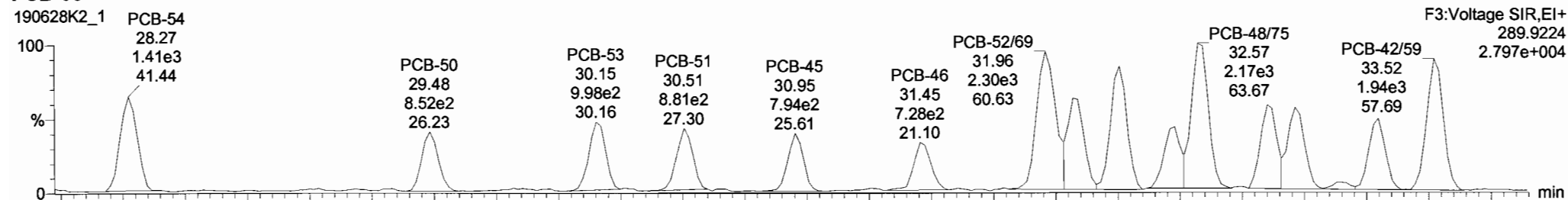


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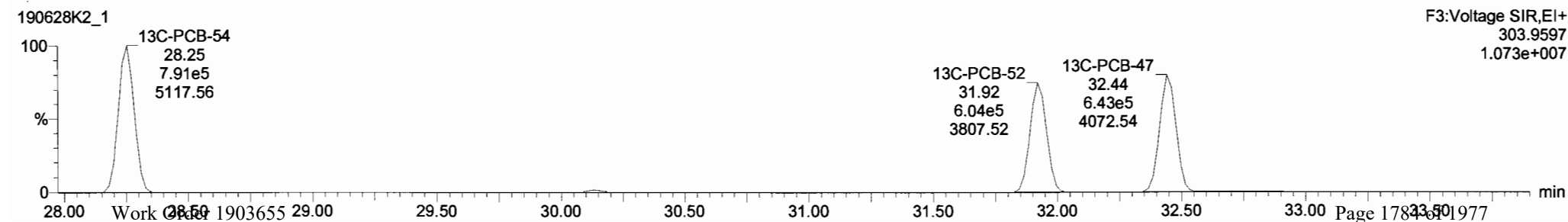
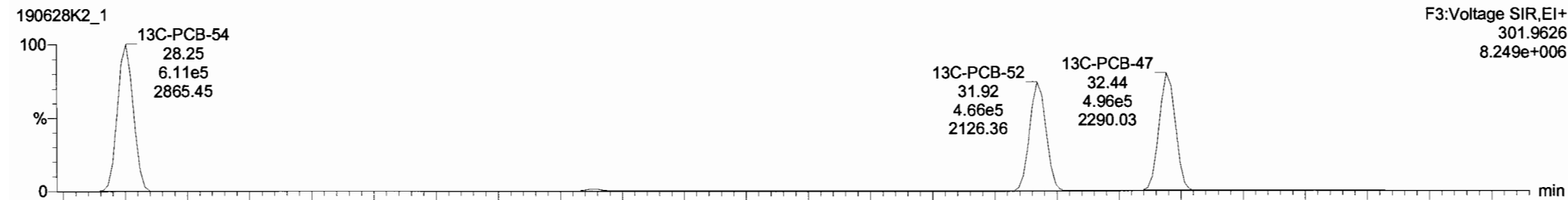
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Name: 190628K2\_1, Date: 28-Jun-2019, Time: 16:32:52, ID: ST190628K2-1 PCB 209 CS0 19D0801, Description: PCB 209 CS0 19D0801

**PCB-50**



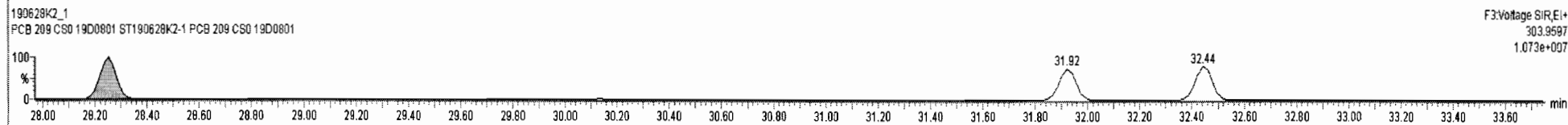
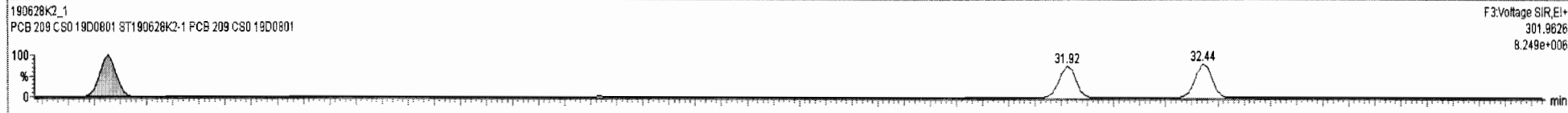
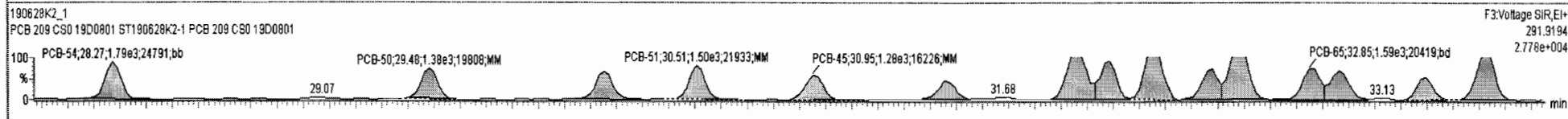
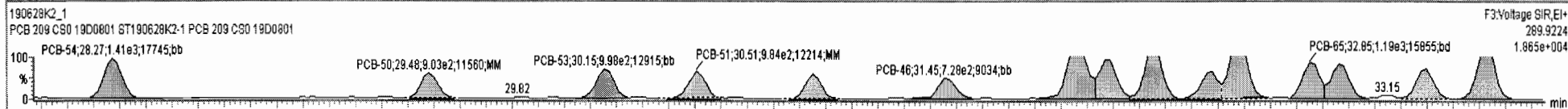
**13C-PCB-52**



190628K2\_1 - ST190628K2-1 PCB 209 CS0 19D0801 - PCB 209 CS0 19D0801

#	Name	Resp	RA	n/Y	RRF	wVol	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
219	219 13C-PCB-205	8.28e5	0.91	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0453	
220	220 13C-PCB-79	1.31e6	0.77	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	101.6	102	0.0590	
221	221 13C-PCB-178	5.82e5	0.45	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	105.4	105	0.0722	
222	222 13C-PCB-79	1.31e6	0.76	NO	1.0454	1.000	38.46	38.47	0.988	0.988	NO	101.0	101	0.0612	
223	223 13C-PCB-178	5.81e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	101.6	102	0.0718	
224	224 Total Mono-PCBs				1.0122	1.000	0.00	0.000			NO	0.6823		0.0291	0.6823
225	225 Total Di-PCBs				1.0592	1.000	0.00	0.000			NO	2.753		0.170	2.753
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00	0.000			NO	1.895		0.0699	1.895
227	227 3rd Function Tri-PCBs				1.0566	1.000	0.00	0.000			NO	3.738		0.197	3.738
228	228 Total Tetra-PCBs				0.9659	1.000	0.00	0.000			NO	9.552		0.358	9.552
229	229 3rd Function Penta-PCBs				1.1152	1.000	0.00	0.000			NO	9.374		0.418	9.594
230	230 4th Function Penta-PCBs				1.1128	1.000	0.00	0.000			NO	1.142		0.0808	1.142
231	231 3rd Function Hexa-PCBs				0.7740	1.000	0.00	0.000			NO	3.261		0.0621	3.261
232	232 4th Function Hexa-PCBs				0.9712	1.000	0.00	0.000			NO	6.404		0.202	6.404
233	233 Total Hepta-PCBs				1.2638	1.000	0.00	0.000			NO	5.554		0.637	5.554

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/Y	EMPC	Conc.
1	45 PCB-44	33.28	33.30	9.878e2	1.128e3	0.770	0.88	NO	0.24417	0.24417
2	44 PCB-62	32.96	32.96	1.240e3	1.581e3	0.770	0.78	NO	0.23258	0.23258
3	43 PCB-65	32.85	32.85	1.188e3	1.587e3	0.770	0.75	NO	0.21980	0.21980
4	42 PCB-48/75	32.57	32.57	2.170e3	3.129e3	0.770	0.69	NO	0.45422	0.45422
5	41 PCB-47	32.45	32.48	1.005e3	1.507e3	0.770	0.67	NO	0.25389	0.25389
6	40 PCB-43/49	32.26	32.26	1.878e3	2.821e3	0.770	0.67	NO	0.46722	0.46722
7	39 PCB-73	32.07	32.07	1.341e3	1.830e3	0.770	0.73	NO	0.22992	0.22992
8	38 PCB-52/69	31.96	31.96	2.295e3	3.051e3	0.770	0.75	NO	0.45772	0.45772
9	37 PCB-46	31.45	31.45	7.278e2	9.773e2	0.770	0.74	NO	0.21151	0.21151



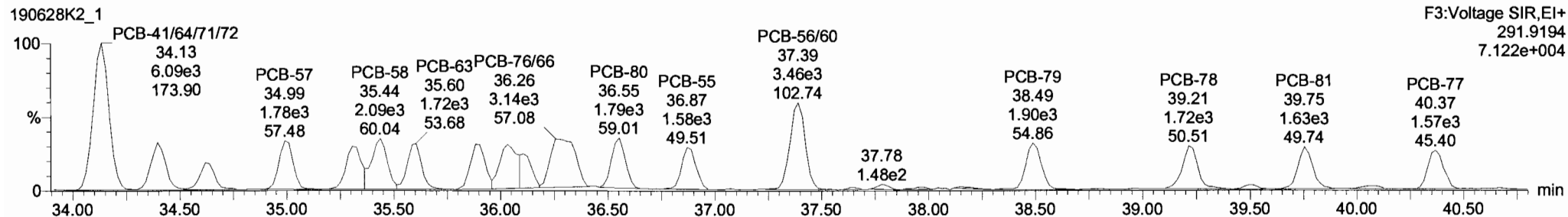
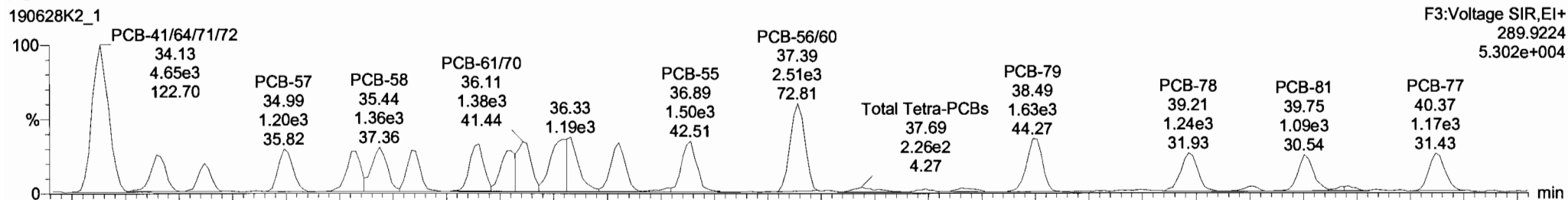


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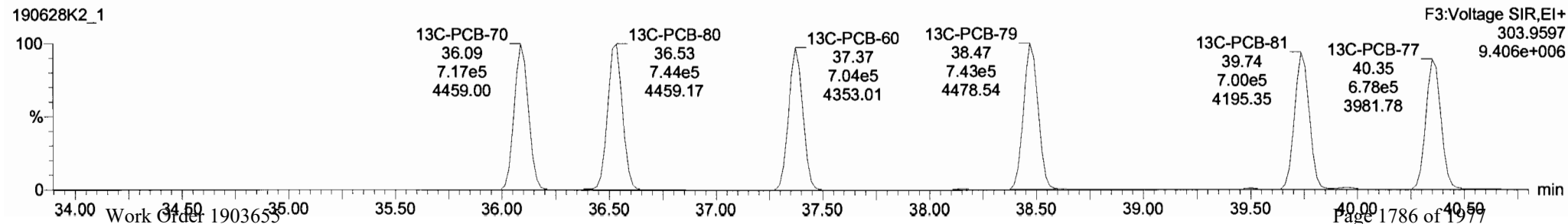
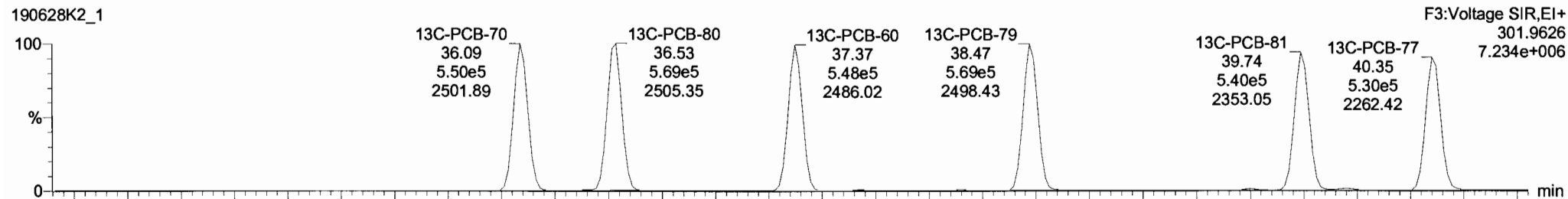
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Name: 190628K2\_1, Date: 28-Jun-2019, Time: 16:32:52, ID: ST190628K2-1 PCB 209 CS0 19D0801, Description: PCB 209 CS0 19D0801

**PCB-68**



**13C-PCB-60**

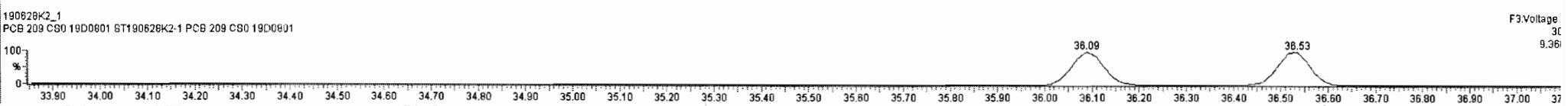
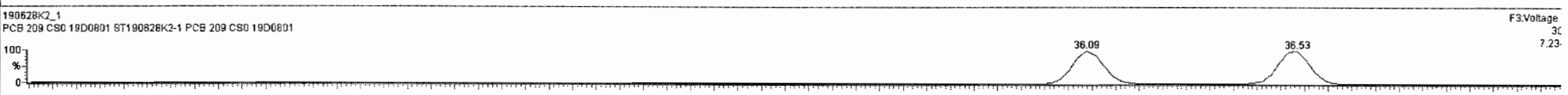
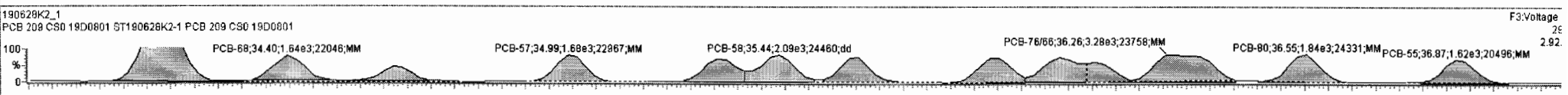
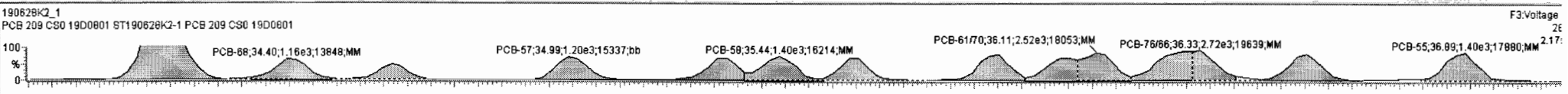




190628K2\_1 - ST190628K2-1 FCB 209 CS0 19D0801 - PCB 209 CS0 19D0801

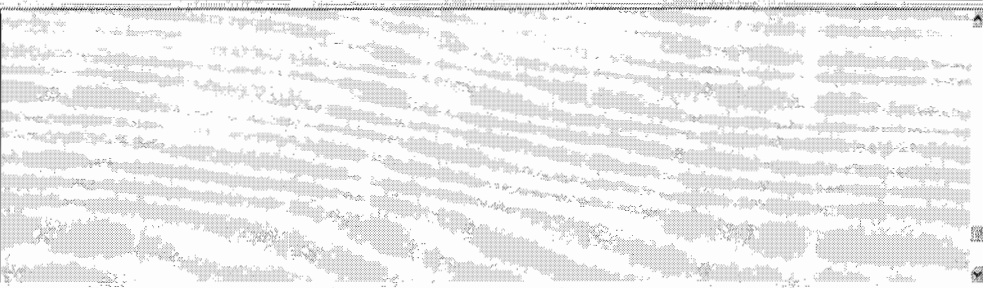
#	Name	Resp	RA	n/y	RRF	wtAwt	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
219	219 13C-PCB-205	8.28e5	0.91	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0453	
220	220 13C-PCB-79	1.31e6	0.77	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	101.6	102	0.0590	
221	221 13C-PCB-178	5.82e5	0.45	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	105.4	105	0.0722	
222	222 13C-PCB-79	1.31e6	0.76	NO	1.0454	1.000	38.46	38.47	0.968	0.968	NO	101.0	101	0.0612	
223	223 13C-PCB-178	5.81e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	101.6	102	0.0718	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	0.6823		0.0291	0.6823
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	2.753		0.170	2.753
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	1.895		0.0699	1.895
227	227 3rd Function Tri-PCBs				1.0566	1.000	0.00		0.000		NO	3.738		0.197	3.738
228	228 Total Tetra-PCBs				0.9661	1.000	0.00		0.000		NO	9.554		0.358	9.554
229	229 3rd Function Penta-PCBs				1.1152	1.000	0.00		0.000		NO	9.374		0.418	9.594
230	230 4th Function Penta-PCBs				1.1128	1.000	0.00		0.000		NO	1.142		0.0808	1.142
231	231 3rd Function Hexa-PCBs				0.7740	1.000	0.00		0.000		NO	3.261		0.0621	3.261
232	232 4th Function Hexa-PCBs				0.9712	1.000	0.00		0.000		NO	6.404		0.202	6.404
233	233 Total Hepta-PCBs				1.2638	1.000	0.00		0.000		NO	5.554		0.637	5.554

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	45 PCB-44	33.28	33.30	9.875e2	1.128e3	0.770	0.88	NO	0.24417	0.24417
2	44 PCB-62	32.96	32.96	1.240e3	1.581e3	0.770	0.78	NO	0.23258	0.23258
3	43 PCB-65	32.85	32.85	1.188e3	1.587e3	0.770	0.75	NO	0.21980	0.21980
4	42 PCB-48/75	32.57	32.57	2.170e3	3.129e3	0.770	0.69	NO	0.45422	0.45422
5	41 PCB-47	32.45	32.48	1.005e3	1.507e3	0.770	0.67	NO	0.25369	0.25369
6	40 PCB-43/49	32.26	32.26	1.878e3	2.821e3	0.770	0.67	NO	0.46722	0.46722
7	39 PCB-73	32.07	32.07	1.341e3	1.630e3	0.770	0.73	NO	0.22992	0.22992
8	38 PCB-52/69	31.96	31.96	2.295e3	3.051e3	0.770	0.75	NO	0.45772	0.45772
9	37 PCB-46	31.45	31.45	7.278e2	9.773e2	0.770	0.74	NO	0.21151	0.21151

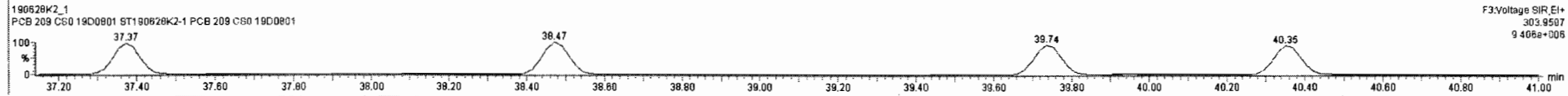
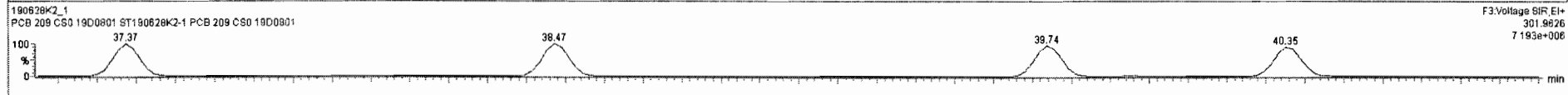
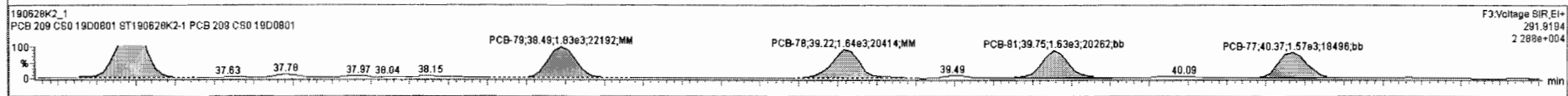
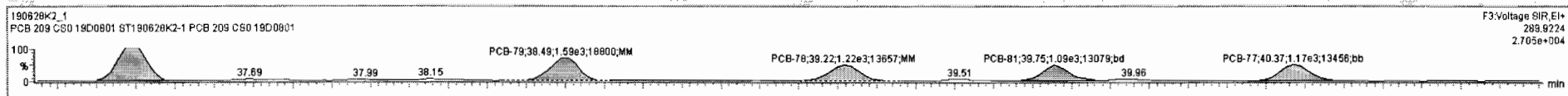
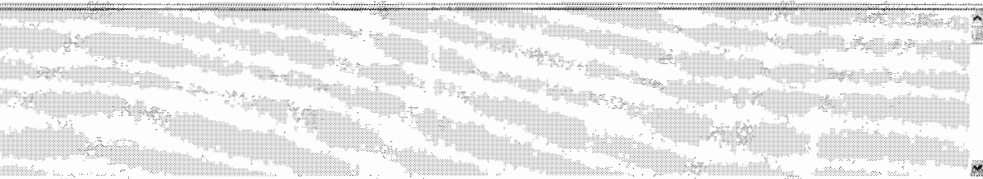


190628K2\_1 - ST190628K2-1 PCB 209 CS0 19D0801 - PCB 209 CS0 19D0801

#	Name	Resp	RA	m/y	RRF	wf/vol	Pred.RT	RT	Pred.RT	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
219	13C-PCB-205	8.28e5	0.91	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0453	
220	13C-PCB-79	1.31e6	0.77	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	101.6	102	0.0590	
221	13C-PCB-178	5.82e5	0.45	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	105.4	105	0.0722	
222	13C-PCB-79	1.31e6	0.78	NO	1.0454	1.000	38.46	38.47	0.968	0.968	NO	101.0	101	0.0612	
223	13C-PCB-178	5.81e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	101.6	102	0.0718	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	0.6823		0.0291	0.6823
225	Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	2.753		0.170	2.753
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	1.895		0.0699	1.895
227	3rd Function Tri-PCBs				1.0566	1.000	0.00		0.000		NO	3.738		0.197	3.738
228	Total Tetra-PCBs				0.9961	1.000	0.00		0.000		NO	9.554		0.358	9.554
229	3rd Function Penta-PCBs				1.1152	1.000	0.00		0.000		NO	9.374		0.418	9.374
230	4th Function Penta-PCBs				1.1128	1.000	0.00		0.000		NO	1.142		0.0808	1.142
231	3rd Function Hexa-PCBs				0.7740	1.000	0.00		0.000		NO	3.261		0.0621	3.261
232	4th Function Hexa-PCBs				0.9712	1.000	0.00		0.000		NO	6.404		0.202	6.404
233	Total Hepta-PCBs				1.2638	1.000	0.00		0.000		NO	5.554		0.637	5.554



#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	m/y	EMPC	Conc.
1	45 PCB-44	33.26	33.30	9.878e2	1.128e3	0.770	0.89	NO	0.24417	0.24417
2	44 PCB-82	32.96	32.96	1.240e3	1.581e3	0.770	0.78	NO	0.23258	0.23258
3	43 PCB-85	32.85	32.85	1.188e3	1.587e3	0.770	0.75	NO	0.21980	0.21980
4	42 PCB-48/75	32.57	32.57	2.170e3	3.129e3	0.770	0.69	NO	0.45422	0.45422
5	41 PCB-47	32.45	32.48	1.005e3	1.507e3	0.770	0.67	NO	0.25389	0.25389
6	40 PCB-43/49	32.26	32.26	1.878e3	2.821e3	0.770	0.67	NO	0.46722	0.46722
7	39 PCB-73	32.07	32.07	1.341e3	1.830e3	0.770	0.73	NO	0.22992	0.22992
8	38 PCB-52/69	31.96	31.96	2.295e3	3.051e3	0.770	0.75	NO	0.45772	0.45772
9	37 PCB-46	31.45	31.45	7.278e2	9.773e2	0.770	0.74	NO	0.21151	0.21151



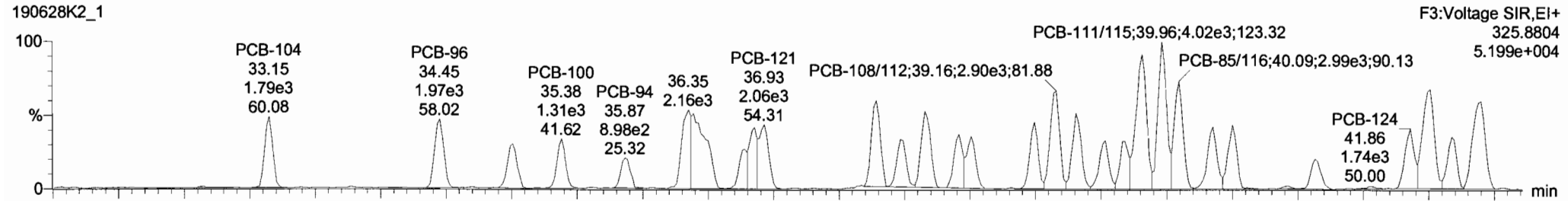
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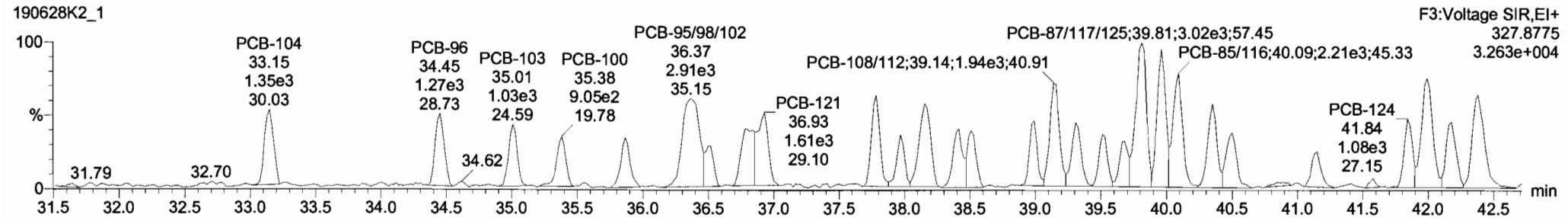
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PCB-104

190628K2\_1

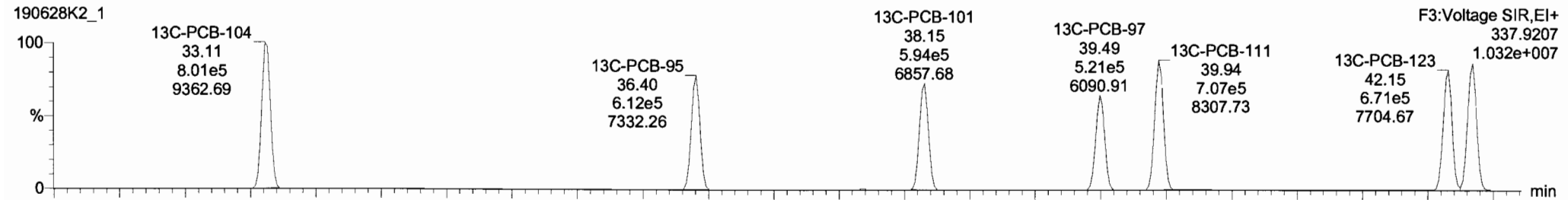


190628K2\_1

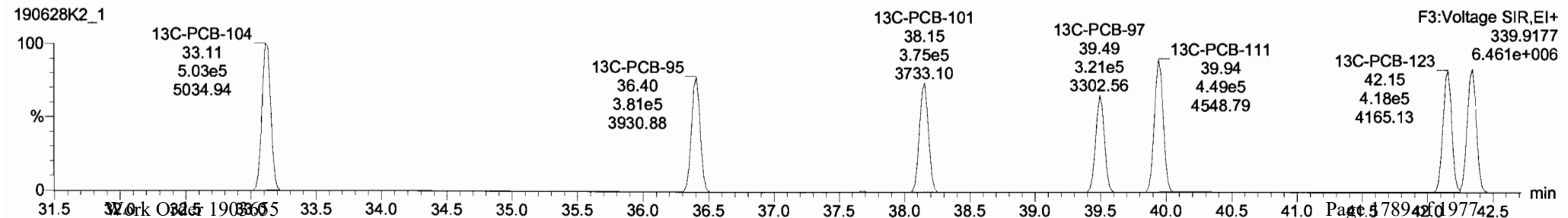


13C-PCB-104

190628K2\_1



190628K2\_1

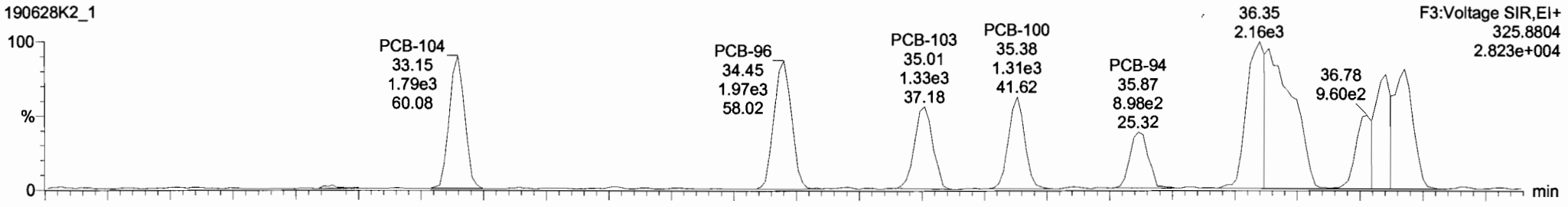


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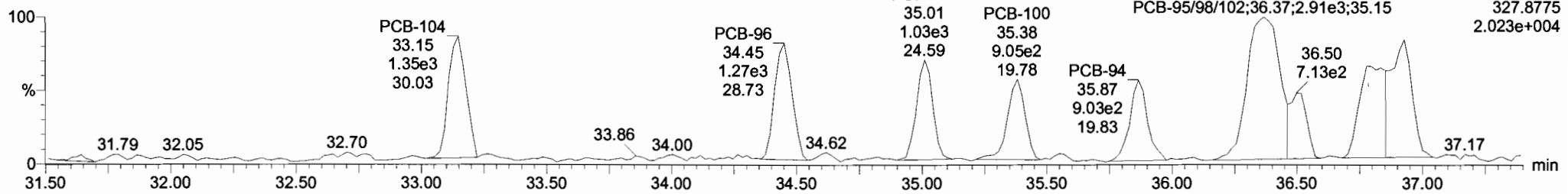
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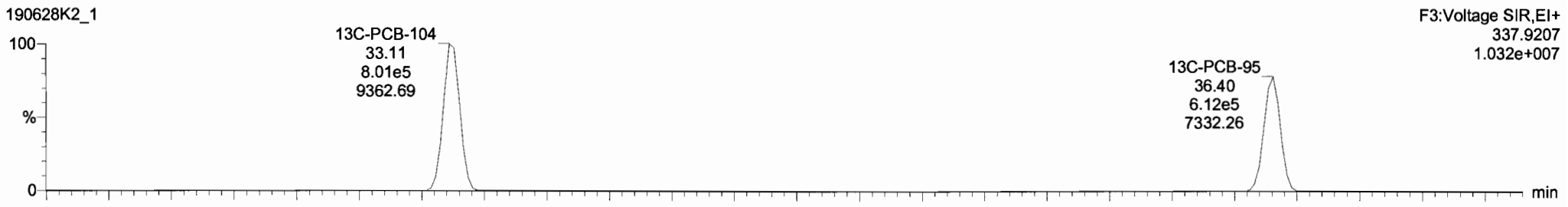
**PCB-96**



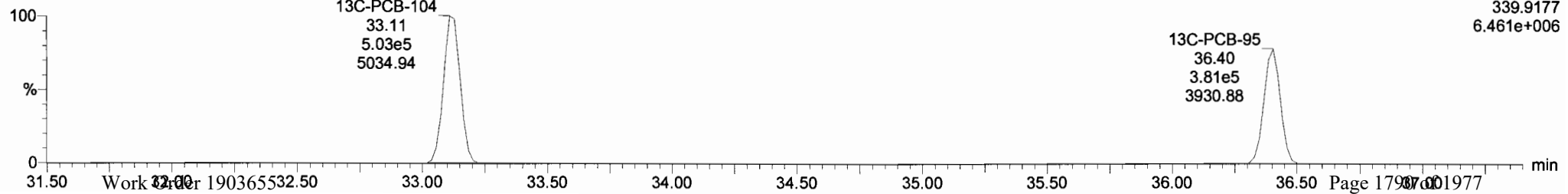
190628K2\_1



**13C-PCB-95**

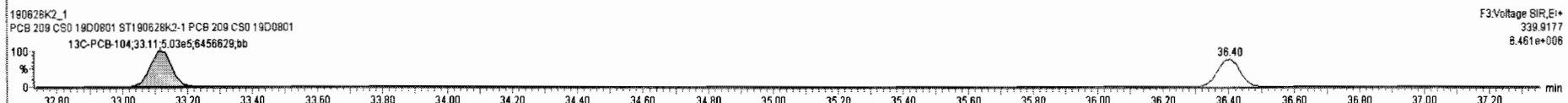
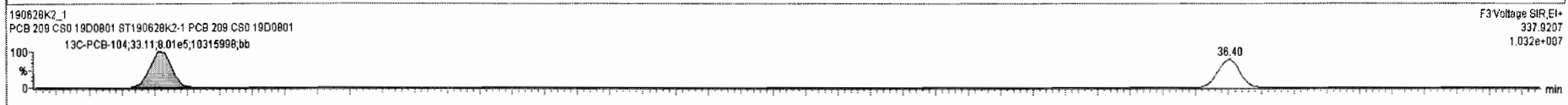
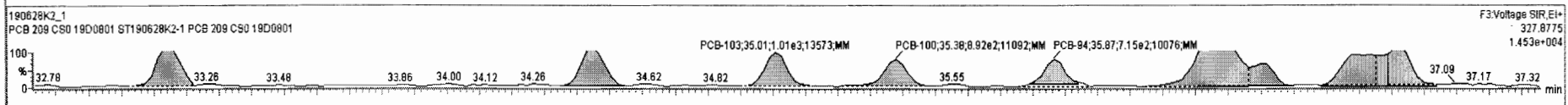
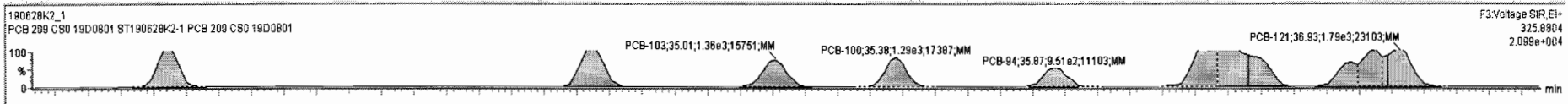


190628K2\_1



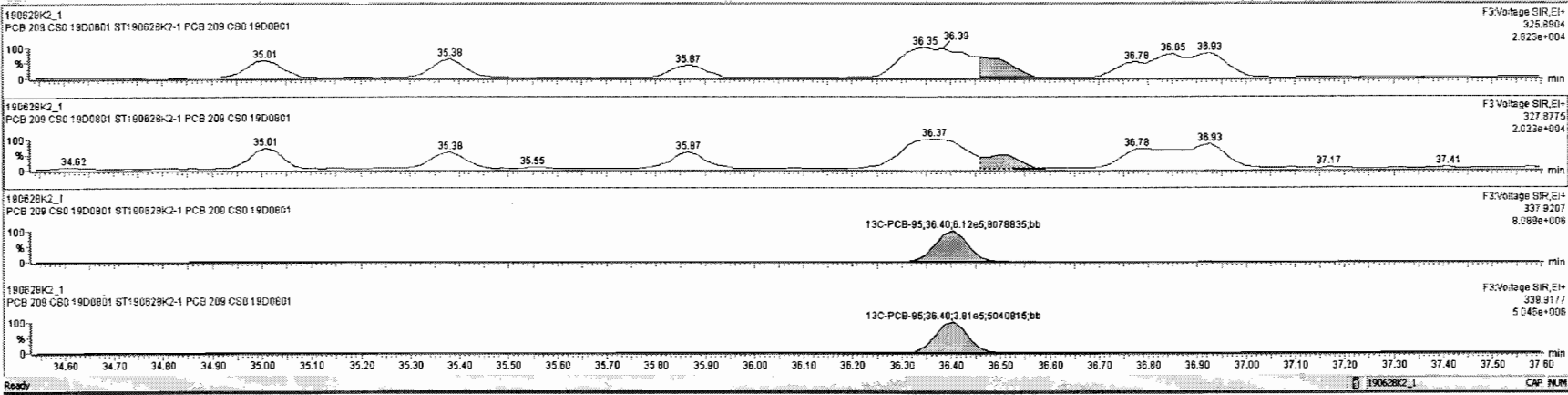
#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT/Fat	Conc	%Rec	DL	EMPC
219	219 13C-PCB-205	8.28e5	0.91	NO	1.0000	1.000	55.80	55.60	1.000	0.000	NO	100.0	100	0.0453	
220	220 13C-PCB-79	1.31e6	0.77	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	101.6	102	0.0690	
221	221 13C-PCB-178	5.82e5	0.45	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	105.4	105	0.0722	
222	222 13C-PCB-79	1.31e6	0.76	NO	1.0454	1.000	38.46	38.47	0.968	0.968	NO	101.0	101	0.0612	
223	223 13C-PCB-178	5.81e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	101.6	102	0.0718	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	0.6823		0.0291	0.6823
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	2.753		0.170	2.753
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	1.895		0.0699	1.895
227	227 3rd Function Tri-PCBs				1.0566	1.000	0.00		0.000		NO	3.738		0.197	3.738
228	228 Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	9.554		0.358	9.554
229	229 3rd Function Penta-PCBs				1.1152	1.000	0.00		0.000		NO	9.374		0.418	9.594
230	230 4th Function Penta-PCBs				1.1128	1.000	0.00		0.000		NO	1.142		0.0808	1.142
231	231 3rd Function Hexa-PCBs				0.7740	1.000	0.00		0.000		NO	3.261		0.0621	3.261
232	232 4th Function Hexa-PCBs				0.9712	1.000	0.00		0.000		NO	6.404		0.202	6.404
233	233 Total Hepta-PCBs				1.2638	1.000	0.00		0.000		NO	5.554		0.637	5.554

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	69 PCB-95/69/102	36.38	36.35	4.283e3	2.951e3	1.560	1.45	NO	0.71789	0.71789
2	68 PCB-94	35.89	35.87	9.508e2	7.155e2	1.560	1.33	NO	0.21694	0.21694
3	67 PCB-100	35.38	35.38	1.290e3	8.921e2	1.560	1.45	NO	0.21527	0.21527
4	66 PCB-103	35.01	35.01	1.362e3	1.006e3	1.560	1.35	NO	0.23458	0.23458
5	65 PCB-96	34.45	34.45	1.871e3	1.274e3	1.560	1.55	NO	0.25002	0.25002
6	64 PCB-104	33.13	33.15	1.807e3	1.345e3	1.560	1.34	NO	0.24314	0.24314
7	84 PCB-111/115	39.96	39.96	4.025e3	2.288e3	1.560	1.76	NO	0.46814	0.46814
8	83 PCB-87/117/125	39.79	39.81	4.456e3	3.021e3	1.560	1.48	NO	0.68616	0.68616
9	82 PCB-86	39.66	39.66	1.248e3	7.727e2	1.560	1.61	NO	0.24072	0.24072



#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
65	PCB-96	3.25e3	1.55	NO	0.9957	1.000	34.45	34.45	1.041	1.040	NO	0.2500	100	0.0117	0.2500
66	PCB-103	2.37e3	1.35	NO	0.7743	1.000	35.01	35.01	1.057	1.057	NO	0.2346	93.8	0.0150	0.2346
67	PCB-100	2.18e3	1.45	NO	0.7776	1.000	35.38	35.38	1.069	1.069	NO	0.2153	86.1	0.0145	0.2153
68	PCB-94	1.67e3	1.33	NO	0.7734	1.000	35.89	35.87	0.986	0.986	NO	0.2169	86.8	0.0192	0.2169
69	PCB-95/98/102	7.23e3	1.45	NO	1.0147	1.000	36.38	36.35	0.999	0.999	NO	0.7179	95.7	0.0147	0.7179
70	PCB-93	2.06e3	1.67	NO	0.9410	1.000	36.51	36.46	1.029	1.022	NO	0.2463	88.5	0.0177	0.2463
71	PCB-88/61	4.66e3	1.43	NO	0.8696	1.000	36.83	36.85	1.012	1.012	NO	0.5275	105	0.0167	0.5275
72	PCB-121	3.03e3	1.45	NO	1.3860	1.000	36.95	36.93	1.015	1.014	NO	0.2198	87.9	0.0107	0.2198
73	PCB-84/62	3.92e3	1.61	NO	0.8785	1.000	37.78	37.76	0.990	0.990	NO	0.4604	92.1	0.0180	0.4604
74	PCB-89	2.23e3	1.72	NO	0.9594	1.000	37.99	37.97	0.996	0.995	NO	0.2398	95.9	0.0165	0.2398
75	PCB-90/101	4.07e3	1.41	NO	0.9439	1.000	38.15	38.15	1.000	1.000	NO	0.4455	89.1	0.0188	0.4455
76	PCB-113	2.73e3	1.41	NO	1.2304	1.000	38.43	38.42	1.007	1.007	NO	0.2290	91.6	0.0129	0.2290
77	PCB-99	2.91e3	1.46	NO	1.1188	1.000	38.53	38.51	1.010	1.009	NO	0.2132	85.3	0.0141	0.2132
78	PCB-119	2.77e3	1.75	NO	1.4712	1.000	38.98	38.99	0.987	0.987	NO	0.2238	89.5	0.0122	0.2238
79	PCB-108/112	4.83e3	1.49	NO	1.2493	1.000	39.15	39.15	0.991	0.992	NO	0.4394	91.9	0.0144	0.4394

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pre9)	RA	n/y	EMPC	Conc.
1										

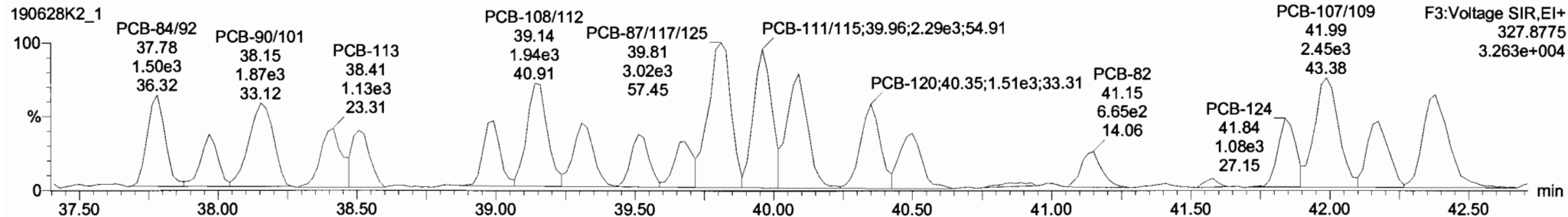
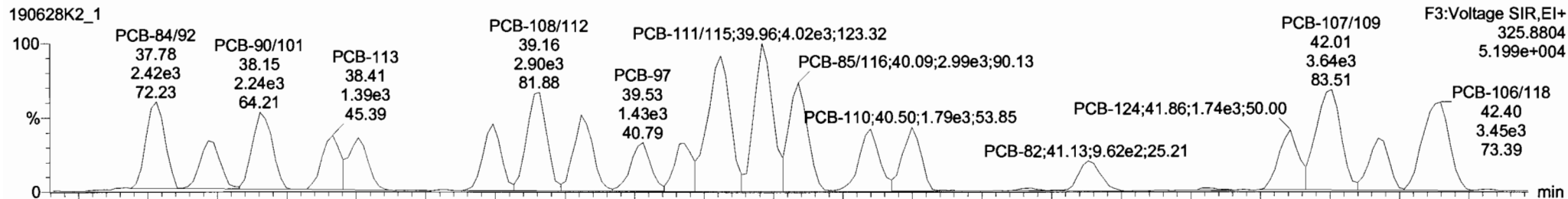


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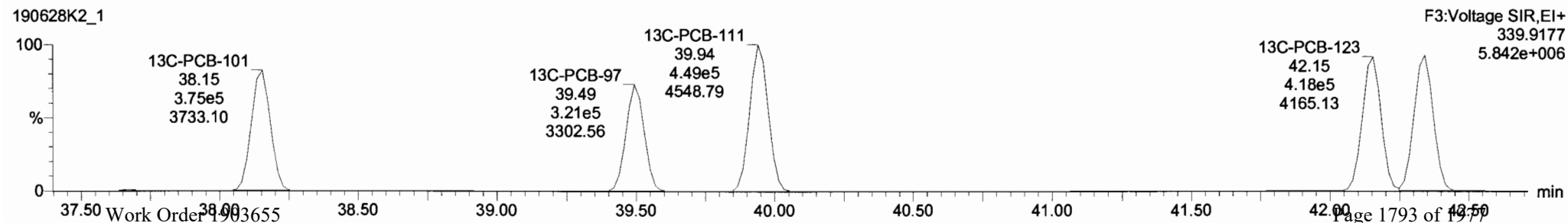
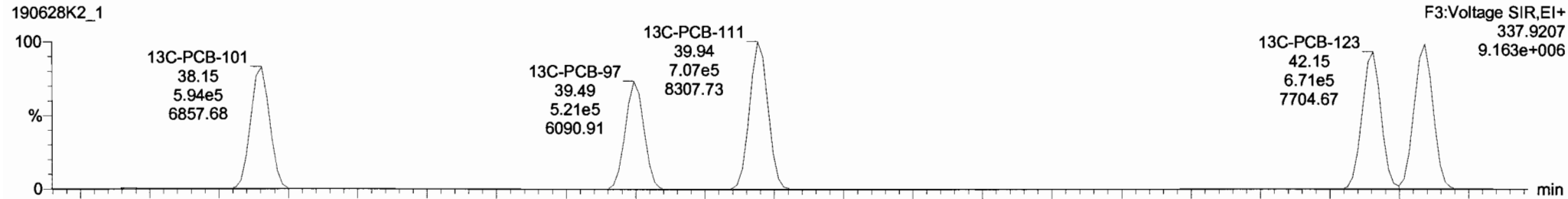
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Name: 190628K2\_1, Date: 28-Jun-2019, Time: 16:32:52, ID: ST190628K2-1 PCB 209 CS0 19D0801, Description: PCB 209 CS0 19D0801

PCB-119



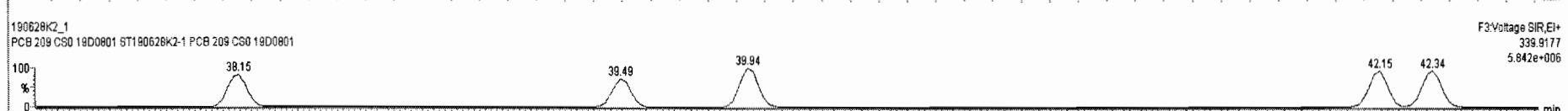
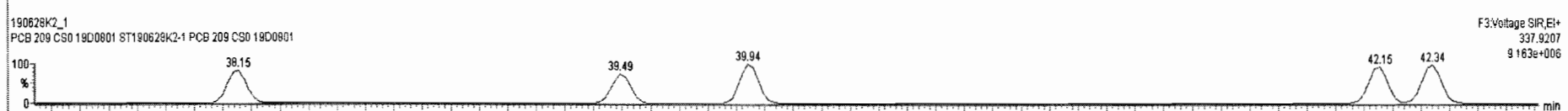
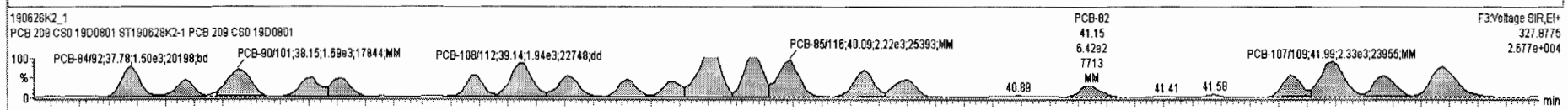
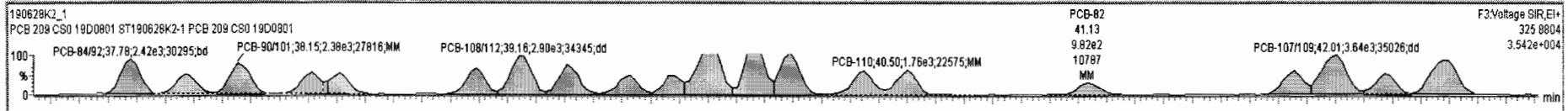
13C-PCB-111





#	Name	Resp	RA	n/y	RF	wt/pt	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
219	219 13C-PCB-205	8.28e5	0.91	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0453	
220	220 13C-PCB-79	1.31e6	0.77	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	101.6	102	0.0690	
221	221 13C-PCB-178	5.82e5	0.45	NO	0.8746	1.000	46.59	46.59	0.988	0.988	NO	105.4	105	0.0722	
222	222 13C-PCB-79	1.31e6	0.76	NO	1.0454	1.000	38.46	38.47	0.988	0.988	NO	101.0	101	0.0612	
223	223 13C-PCB-178	5.81e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	101.6	102	0.0718	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	0.6823		0.0291	0.6823
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	2.753		0.170	2.753
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	1.895		0.0899	1.895
227	227 3rd Function Tri-PCBs				1.0566	1.000	0.00		0.000		NO	3.738		0.197	3.738
228	228 Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	9.554		0.358	9.554
228	228 3rd Function Penta-PCBs				1.1152	1.000	0.00		0.000		NO	9.374		0.418	9.584
230	230 4th Function Penta-PCBs				1.1126	1.000	0.00		0.000		NO	1.142		0.0808	1.142
231	231 3rd Function Hexa-PCBs				0.7740	1.000	0.00		0.000		NO	3.261		0.0621	3.261
232	232 4th Function Hexa-PCBs				0.9712	1.000	0.00		0.000		NO	6.404		0.202	6.404
233	233 Total Hepta-PCBs				1.2638	1.000	0.00		0.000		NO	5.554		0.637	5.554

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	69 PCB-95/98/102	36.36	36.35	4.283e3	2.951e3	1.560	1.45	NO	0.71789	0.71789
2	68 PCB-94	35.86	35.87	9.508e2	7.155e2	1.560	1.33	NO	0.21894	0.21894
3	67 PCB-100	35.38	35.38	1.290e3	8.921e2	1.560	1.45	NO	0.21527	0.21527
4	66 PCB-103	35.01	35.01	1.362e3	1.006e3	1.560	1.35	NO	0.23458	0.23458
5	65 PCB-96	34.45	34.45	1.971e3	1.274e3	1.560	1.55	NO	0.25002	0.25002
6	64 PCB-104	33.13	33.15	1.807e3	1.345e3	1.560	1.34	NO	0.24314	0.24314
7	84 PCB-111/115	39.96	39.96	4.025e3	2.288e3	1.560	1.76	NO	0.46814	0.46814
8	83 PCB-87/117/125	39.79	39.81	4.456e3	3.021e3	1.560	1.48	NO	0.66616	0.66616
9	82 PCB-86	39.66	39.68	1.246e3	7.727e2	1.560	1.61	NO	0.24072	0.24072



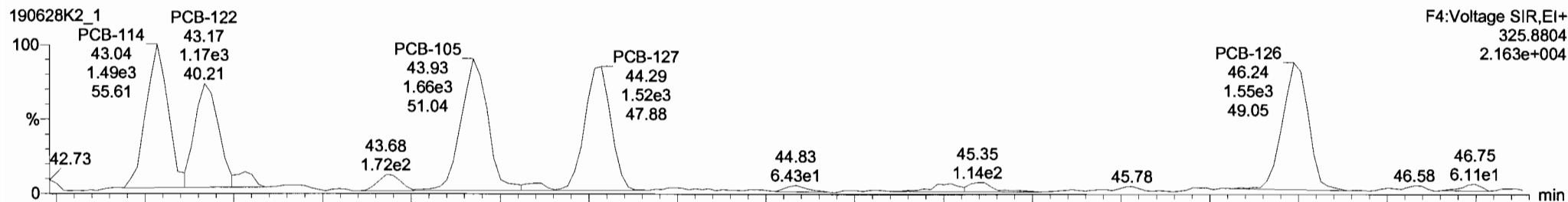


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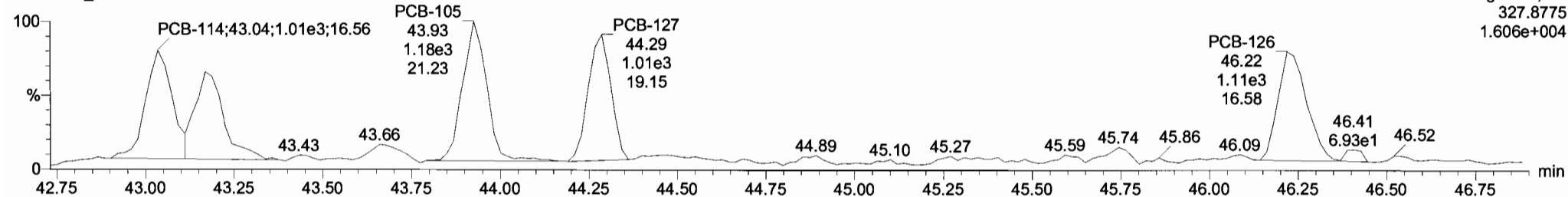
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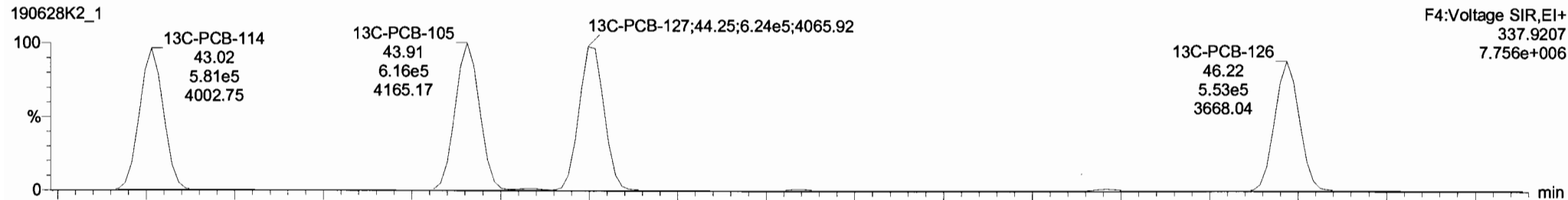
**PCB-114**



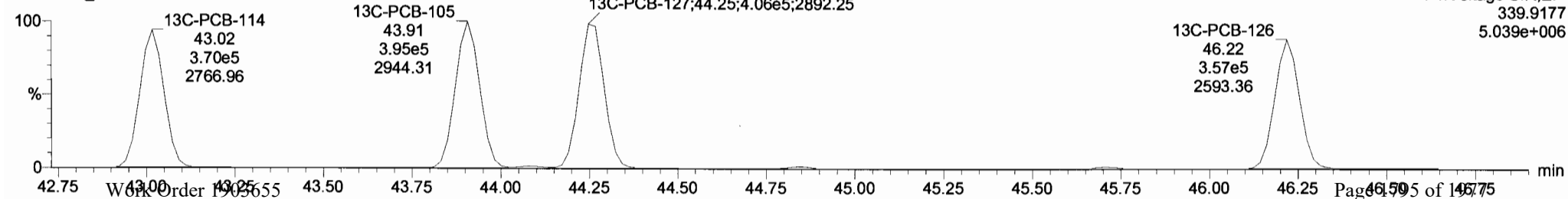
**190628K2\_1**



**13C-PCB-114**

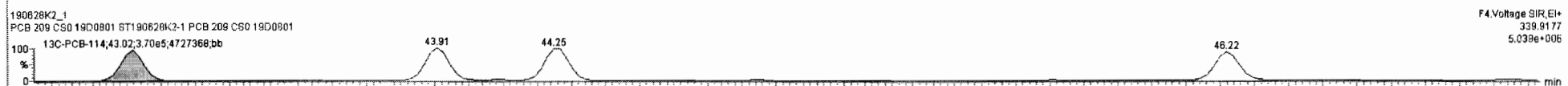
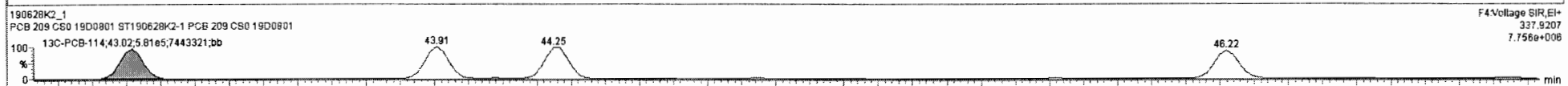
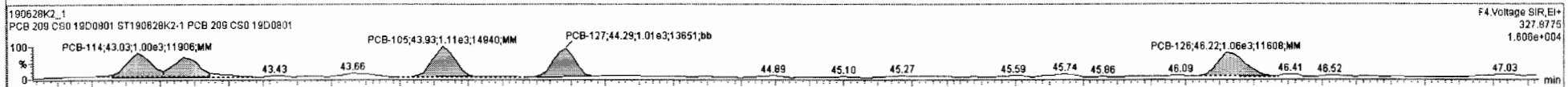
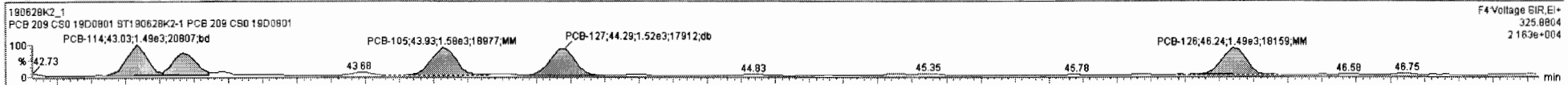


**190628K2\_1**



#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
219	13C-PCB-205	8.28e5	0.91	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0453	
220	13C-PCB-79	1.31e6	0.77	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	101.6	102	0.0590	
221	13C-PCB-178	5.82e5	0.45	NO	0.8746	1.000	46.58	46.58	0.968	0.968	NO	105.4	105	0.0722	
222	13C-PCB-79	1.31e6	0.76	NO	1.0454	1.000	38.46	38.47	0.968	0.968	NO	101.0	101	0.0612	
223	13C-PCB-178	5.81e5	0.45	NO	0.9748	1.000	46.58	46.58	0.924	0.924	NO	101.6	102	0.0718	
224	224 Total Mono-PCBs				1.0122	1.000	0.000	0.000	0.000	0.000	NO	0.6823	0.0291	0.6823	
225	225 Total Di-PCBs				1.0592	1.000	0.000	0.000	0.000	0.000	NO	2.753	0.170	2.753	
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.000	0.000	0.000	0.000	NO	1.895	0.0699	1.895	
227	227 3rd Function Tri-PCBs				1.0566	1.000	0.000	0.000	0.000	0.000	NO	3.738	0.197	3.738	
228	228 Total Tetra-PCBs				0.9661	1.000	0.000	0.000	0.000	0.000	NO	9.554	0.358	9.554	
229	229 3rd Function Penta-PCBs				1.1152	1.000	0.000	0.000	0.000	0.000	NO	9.374	0.418	9.594	
230	230 4th Function Penta-PCBs				1.1112	1.000	0.000	0.000	0.000	0.000	NO	1.134	0.0609	1.134	
231	231 3rd Function Hexa-PCBs				0.7740	1.000	0.000	0.000	0.000	0.000	NO	3.261	0.0621	3.261	
232	232 4th Function Hexa-PCBs				0.9712	1.000	0.000	0.000	0.000	0.000	NO	6.404	0.202	6.404	
233	233 Total Hepta-PCBs				1.2638	1.000	0.000	0.000	0.000	0.000	NO	5.554	0.637	5.554	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1:2 Ratio (Pred)	RA	n/y	EMPC	Conc
97	PCB-126	46.24	46.24	1.489e3	1.056e3	1.580	1.41	NO	0.23081	0.23081
98	PCB-127	44.27	44.29	1.524e3	1.010e3	1.580	1.51	NO	0.22193	0.22193
3	96 PCB-105	43.82	43.93	1.579e3	1.111e3	1.590	1.42	NO	0.24184	0.24184
4	94 PCB-122	43.17	43.17	1.167e3	8.175e2	1.580	1.43	NO	0.21463	0.21463
5	93 PCB-114	43.04	43.03	1.487e3	9.998e2	1.580	1.49	NO	0.22512	0.22512

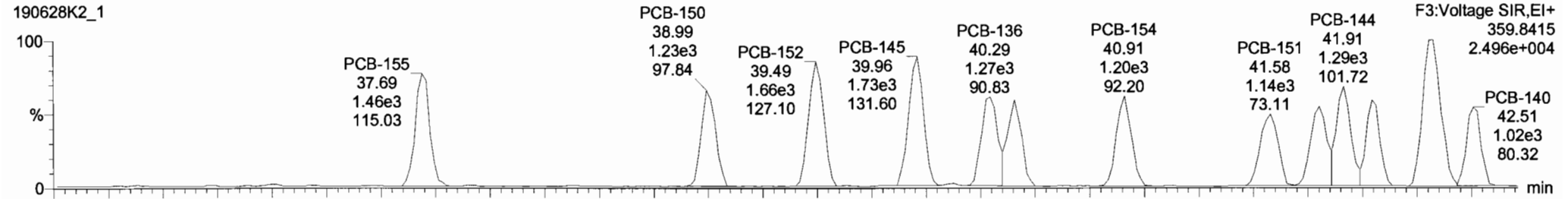


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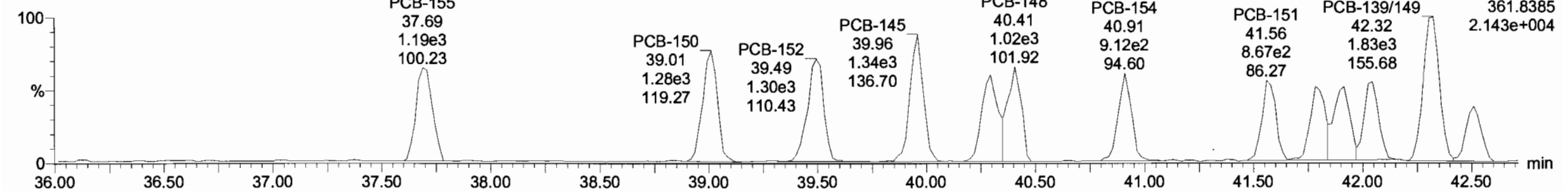
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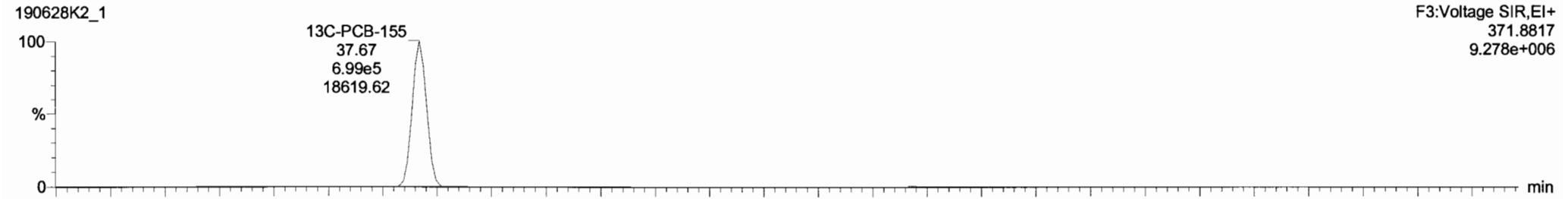
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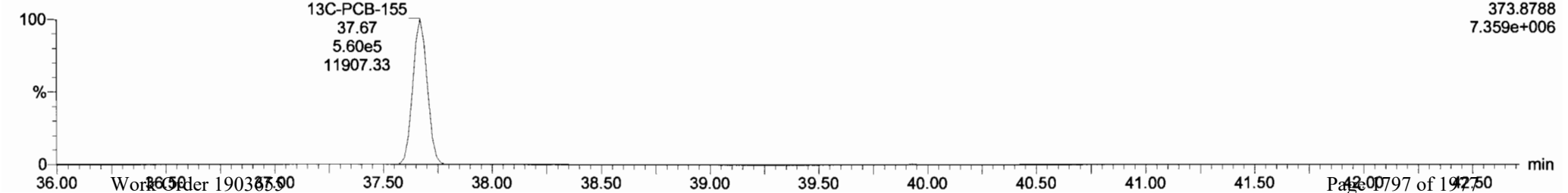
190628K2\_1



13C-PCB-155



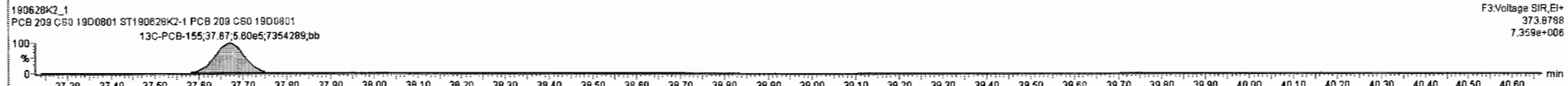
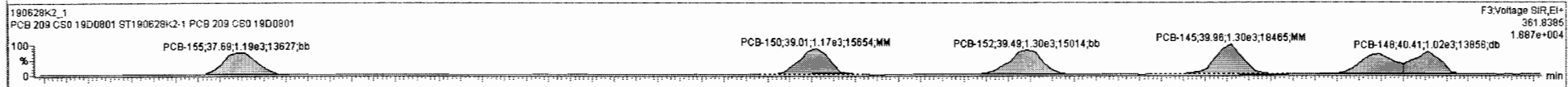
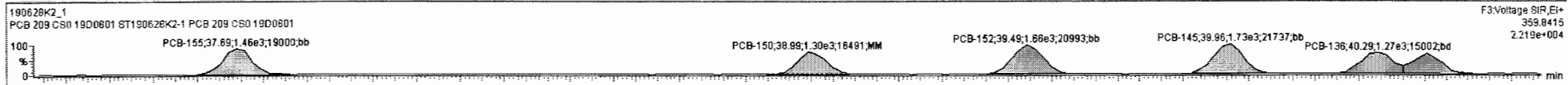
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190628K2\_1 - ST190628K2-1.PCB.209.CS0.19D0801 - PCB.209.CS0.19D0801

#	Name	Resp	RA	n/y	RRF	wchvol	Pred.RT	RT	Pred.F	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
219	13C-PCB-205	8.28e5	0.91	NO	1.0000	1.000	55.80	55.80	1.000	0.000	NO	100.0	100	0.0453	
220	13C-PCB-79	1.31e6	0.77	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	101.6	102	0.0590	
221	13C-PCB-178	5.82e5	0.45	NO	0.9746	1.000	46.58	46.58	0.988	0.988	NO	105.4	105	0.0722	
222	13C-PCB-79	1.31e6	0.76	NO	1.0454	1.000	38.46	38.47	0.968	0.968	NO	101.0	101	0.0612	
223	13C-PCB-178	5.81e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	101.6	102	0.0718	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	0.6823		0.0291	0.6823
225	Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	2.753		0.170	2.753
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	1.895		0.0699	1.895
227	3rd Function Tri-PCBs				1.0568	1.000	0.00		0.000		NO	3.738		0.197	3.738
228	Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	9.554		0.358	9.554
229	3rd Function Penta-PCBs				1.1152	1.000	0.00		0.000		NO	9.374		0.418	9.394
230	4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	1.134		0.0809	1.134
231	3rd Function Hexa-PCBs				0.7738	1.000	0.00		0.000		NO	3.759		0.0822	3.259
232	4th Function Hexa-PCBs				0.9712	1.000	0.00		0.000		NO	6.404		0.202	6.404
233	Total Hepta-PCBs				1.2638	1.000	0.00		0.000		NO	5.554		0.637	5.554

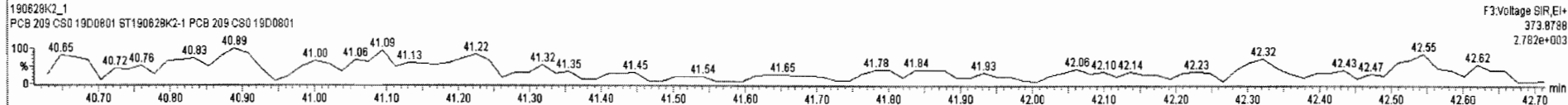
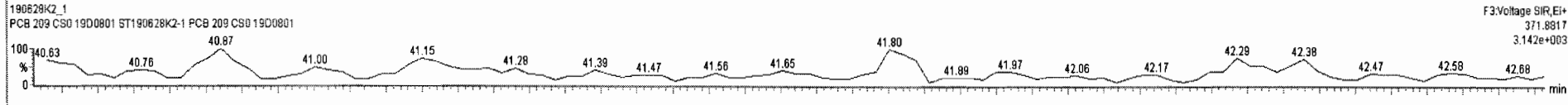
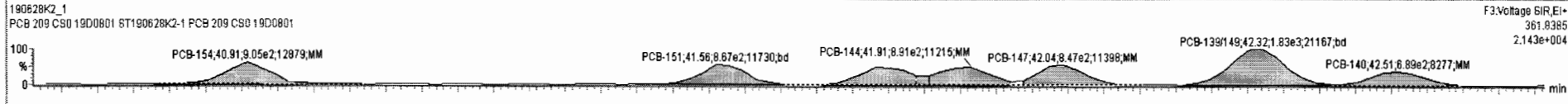
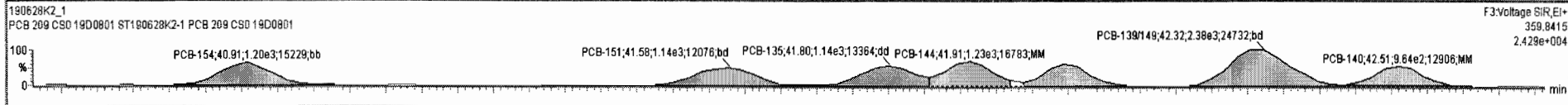
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1*Ratio (Pred)	RA	n/y	EMPC	Conc.
1	98 PCB-155	37.69	37.69	1.460e3	1.191e3	1.240	1.23	NO	0.24106	0.24106
2	99 PCB-150	39.98	39.98	1.296e3	1.174e3	1.240	1.10	NO	0.22277	0.22277
3	100 PCB-152	39.48	39.48	1.883e3	1.297e3	1.240	1.28	NO	0.23416	0.23416
4	101 PCB-145	39.95	39.96	1.728e3	1.302e3	1.240	1.33	NO	0.24074	0.24074
5	102 PCB-136	40.28	40.29	1.270e3	1.081e3	1.240	1.18	NO	0.22150	0.22150
6	103 PCB-148	40.38	40.41	1.088e3	1.015e3	1.240	1.07	NO	0.24108	0.24108
7	104 PCB-154	40.90	40.91	1.200e3	9.049e2	1.240	1.33	NO	0.23093	0.23093
8	105 PCB-151	41.58	41.58	1.138e3	8.672e2	1.240	1.31	NO	0.25209	0.25209
9	106 PCB-135	41.80	41.80	1.142e3	9.323e2	1.240	1.23	NO	0.23018	0.23018



190628K2\_1 - ST190628K2-1 PCB 209 CS0 19D0801 - PCB 209 CS0 19D0801

#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
219	219 13C-PCB-205	8.29e5	0.91	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0453	
220	220 13C-PCB-79	1.31e6	0.77	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	101.6	102	0.0590	
221	221 13C-PCB-178	5.82e5	0.45	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	105.4	105	0.0722	
222	222 13C-PCB-79	1.31e6	0.76	NO	1.0454	1.000	38.46	38.47	0.988	0.988	NO	101.0	101	0.0612	
223	223 13C-PCB-178	5.81e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	101.6	102	0.0718	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	0.6823		0.0291	0.6823
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	2.753		0.170	2.753
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	1.895		0.0699	1.895
227	227 3rd Function Tri-PCBs				1.0565	1.000	0.00		0.000		NO	3.738		0.197	3.738
228	228 Total Tetra-PCBs				0.9661	1.000	0.00		0.000		NO	9.554		0.358	9.554
229	229 3rd Function Penta-PCBs				1.1152	1.000	0.00		0.000		NO	9.374		0.418	9.584
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	1.134		0.0809	1.134
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	3.259		0.0622	3.259
232	232 4th Function Hexa-PCBs				0.9712	1.000	0.00		0.000		NO	6.404		0.202	6.404
233	233 Total Hepta-PCBs				1.2638	1.000	0.00		0.000		NO	5.554		0.637	5.554

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	98 PCB-155	37.69	37.69	1.460e3	1.191e3	1.240	1.23	NO	0.24106	0.24106
2	99 PCB-150	38.96	38.99	1.296e3	1.174e3	1.240	1.10	NO	0.22277	0.22277
3	100 PCB-152	39.48	39.49	1.663e3	1.297e3	1.240	1.28	NO	0.23416	0.23416
4	101 PCB-145	39.95	39.96	1.728e3	1.302e3	1.240	1.33	NO	0.24074	0.24074
5	102 PCB-136	40.28	40.29	1.270e3	1.081e3	1.240	1.18	NO	0.22150	0.22150
6	103 PCB-148	40.39	40.41	1.089e3	1.015e3	1.240	1.07	NO	0.24106	0.24106
7	104 PCB-154	40.90	40.91	1.200e3	9.049e2	1.240	1.33	NO	0.23093	0.23093
8	105 PCB-151	41.58	41.58	1.138e3	8.672e2	1.240	1.31	NO	0.25209	0.25209
9	106 PCB-135	41.80	41.80	1.142e3	9.323e2	1.240	1.23	NO	0.23018	0.23018

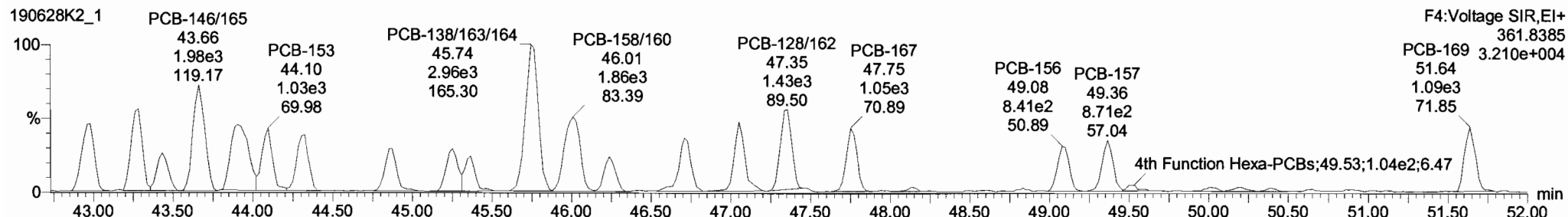
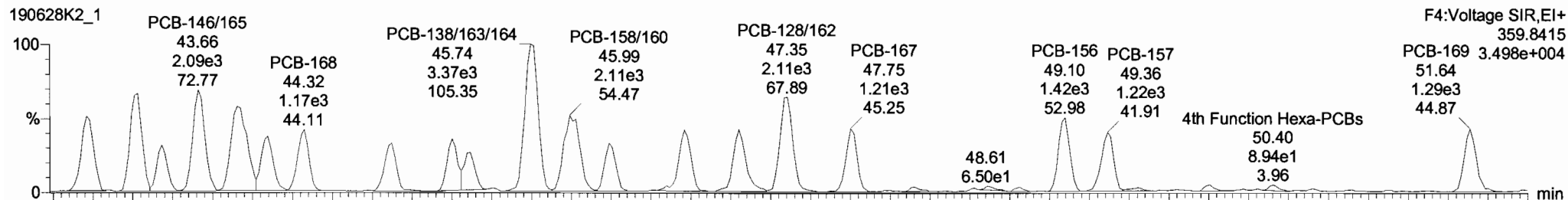


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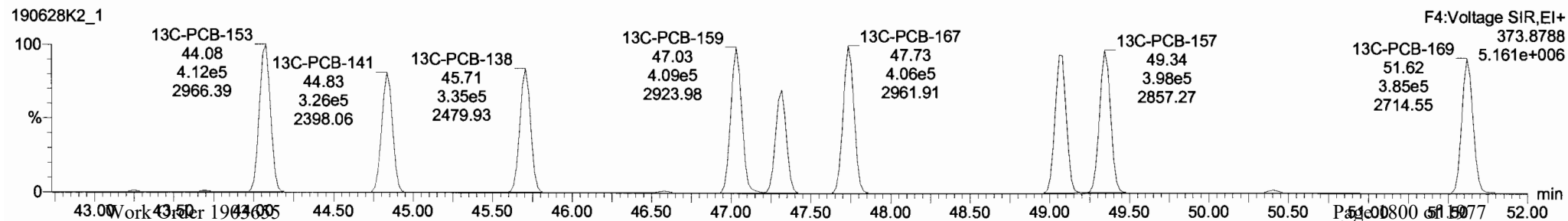
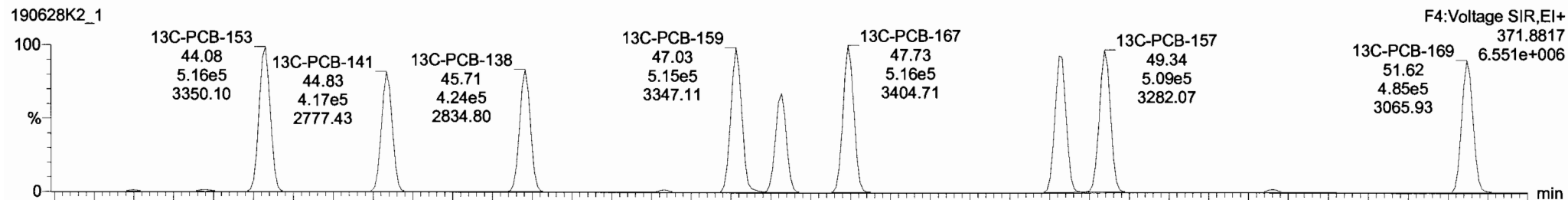
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**PCB-134/143**



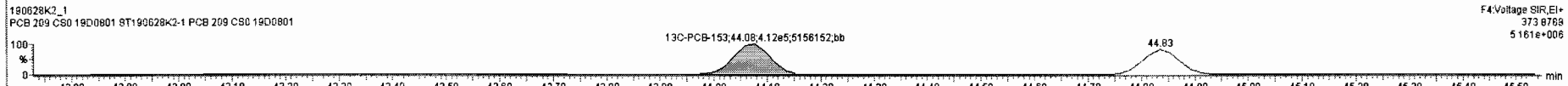
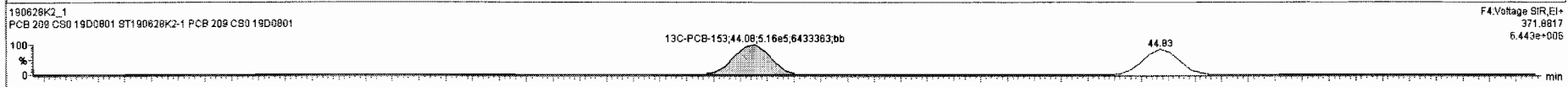
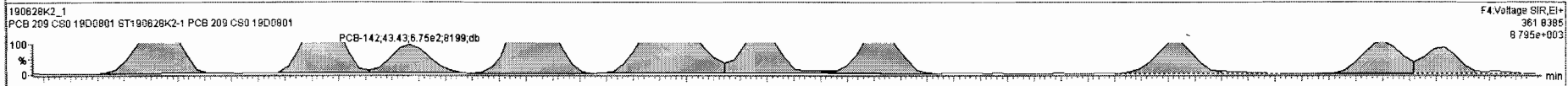
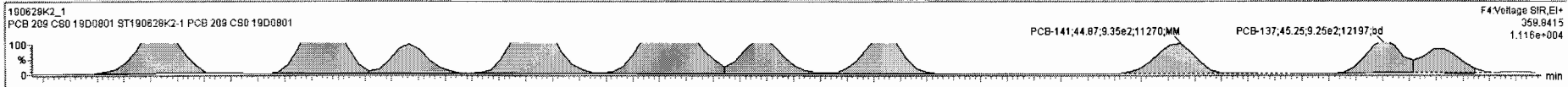
**13C-PCB-153**



190628K2\_1 - ST190628K2-1 PCB 209 CS0 19D0801 - PCB 209 CS0 19D0801

#	Name	Resp	RA	nly	RFF	wt/vol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
219	13C-PCB-205	8.28e5	0.91	NO	1.0000	1.000	55.50	55.60	1.000	0.000	NO	100.0	100	0.0453	
220	13C-PCB-79	1.31e6	0.77	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	101.6	102	0.0590	
221	13C-PCB-178	5.82e5	0.45	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	105.4	105	0.0722	
222	13C-PCB-79	1.31e6	0.76	NO	1.0454	1.000	38.46	38.47	0.988	0.988	NO	101.0	101	0.0612	
223	13C-PCB-178	5.81e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	101.6	102	0.0719	
224	Total Mono-PCBs				1.0122	1.000	0.00	0.000	0.000	0.000	NO	0.6823		0.0291	0.6823
225	Total Di-PCBs				1.0592	1.000	0.00	0.000	0.000	0.000	NO	2.753		0.170	2.753
226	2nd Function Tri-PCBs				0.9137	1.000	0.00	0.000	0.000	0.000	NO	1.895		0.0699	1.895
227	3rd Function Tri-PCBs				1.0566	1.000	0.00	0.000	0.000	0.000	NO	3.738		0.197	3.738
228	Total Tetra-PCBs				0.9661	1.000	0.00	0.000	0.000	0.000	NO	9.554		0.358	9.554
229	3rd Function Penta-PCBs				1.1152	1.000	0.00	0.000	0.000	0.000	NO	9.374		0.418	9.594
230	4th Function Penta-PCBs				1.1112	1.000	0.00	0.000	0.000	0.000	NO	1.134		0.0809	1.134
231	3rd Function Hexa-PCBs				0.7739	1.000	0.00	0.000	0.000	0.000	NO	3.259		0.0622	3.259
232	4th Function Hexa-PCBs				0.9712	1.000	0.00	0.000	0.000	0.000	NO	8.404		0.202	6.404
233	Total Hepta-PCBs				1.2638	1.000	0.00	0.000	0.000	0.000	NO	5.554		0.637	5.554

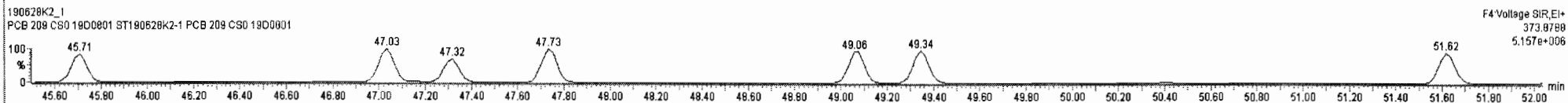
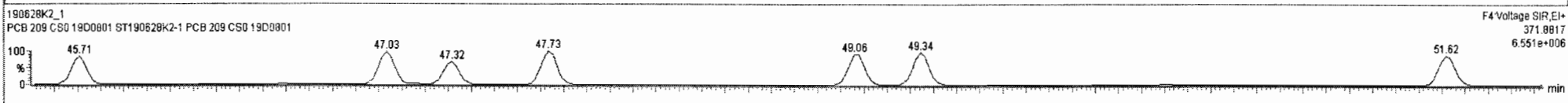
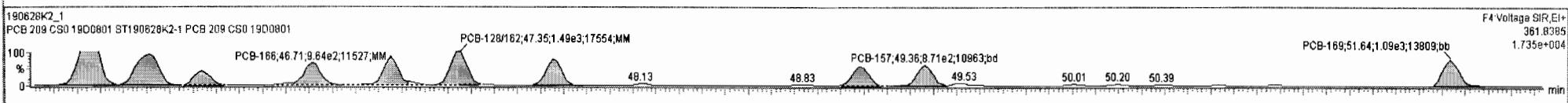
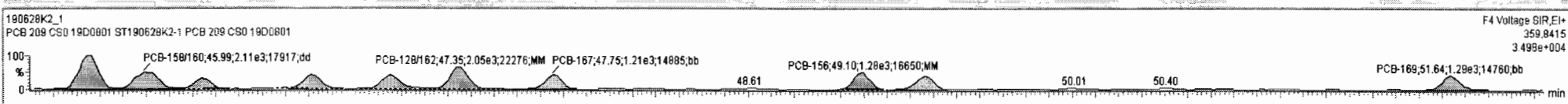
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	% Ratio (Pred)	RA	nly	EMPC	Conc.
1	111 PCB-134/143	42.96	42.96	1.599e3	1.334e3	1.240	1.19	NO	0.42983	0.42983
2	112 PCB-131/133	43.26	43.28	1.999e3	1.441e3	1.240	1.39	NO	0.46939	0.46939
3	113 PCB-142	43.45	43.43	8.165e2	6.754e2	1.240	1.21	NO	0.22717	0.22717
4	114 PCB-146/165	43.66	43.66	2.095e3	1.978e3	1.240	1.06	NO	0.45767	0.45767
5	115 PCB-132/161	43.91	43.91	2.352e3	1.840e3	1.240	1.28	NO	0.46576	0.46576
6	116 PCB-153	44.09	44.10	1.125e3	1.033e3	1.240	1.09	NO	0.23112	0.23112
7	117 PCB-168	44.30	44.32	1.170e3	1.034e3	1.240	1.13	NO	0.23427	0.23427
8	118 PCB-141	44.88	44.87	9.351e2	7.519e2	1.240	1.24	NO	0.23455	0.23455
9	119 PCB-137	45.25	45.25	9.249e2	7.825e2	1.240	1.18	NO	0.23252	0.23252





#	Name	Resp	RA	n/y	RRF	wVol	Pred_RT	RT	Pred_R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
219	13C-PCB-205	8.28e5	0.91	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0453	
220	13C-PCB-79	1.31e6	0.77	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	101.6	102	0.0590	
221	13C-PCB-178	5.62e5	0.45	NO	0.8746	1.000	46.58	46.58	0.968	0.968	NO	105.4	105	0.0722	
222	13C-PCB-79	1.31e6	0.76	NO	1.0454	1.000	38.46	38.47	0.968	0.968	NO	101.0	101	0.0612	
223	13C-PCB-178	5.61e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	101.6	102	0.0718	
224	Total Mono-PCBs				1.0122	1.000	0.00	0.00	0.000	0.000	NO	0.6823		0.0291	0.6823
225	Total Di-PCBs				1.0592	1.000	0.00	0.00	0.000	0.000	NO	2.753		0.170	2.753
226	2nd Function Tri-PCBs				0.9137	1.000	0.00	0.00	0.000	0.000	NO	1.895		0.0699	1.895
227	3rd Function Tri-PCBs				1.0566	1.000	0.00	0.00	0.000	0.000	NO	3.738		0.197	3.738
228	Total Tetra-PCBs				0.9681	1.000	0.00	0.00	0.000	0.000	NO	9.554		0.358	9.554
229	3rd Function Penta-PCBs				1.1152	1.000	0.00	0.00	0.000	0.000	NO	9.374		0.418	9.584
230	4th Function Penta-PCBs				1.1112	1.000	0.00	0.00	0.000	0.000	NO	1.134		0.0809	1.134
231	3rd Function Hexa-PCBs				0.7739	1.000	0.00	0.00	0.000	0.000	NO	3.259		0.0622	3.259
232	4th Function Hexa-PCBs				0.9712	1.000	0.00	0.00	0.000	0.000	NO	5.404		0.202	6.404
233	Total Hepta-PCBs				1.2638	1.000	0.00	0.00	0.000	0.000	NO	5.554		0.637	5.554

#	Name	Pred_RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	111 PCB-134/I/43	42.96	42.96	1.589e3	1.334e3	1.240	1.19	NO	0.42983	0.42983
2	112 PCB-131/I/33	43.26	43.28	1.999e3	1.441e3	1.240	1.38	NO	0.46839	0.46839
3	113 PCB-142	43.45	43.43	8.165e2	6.754e2	1.240	1.21	NO	0.22717	0.22717
4	114 PCB-146/I/65	43.66	43.86	2.095e3	1.978e3	1.240	1.08	NO	0.45767	0.45767
5	115 PCB-132/I/61	43.91	43.91	2.352e3	1.640e3	1.240	1.28	NO	0.46576	0.46576
6	116 PCB-153	44.09	44.10	1.125e3	1.033e3	1.240	1.09	NO	0.23112	0.23112
7	117 PCB-168	44.30	44.32	1.170e3	1.034e3	1.240	1.13	NO	0.23427	0.23427
8	118 PCB-141	44.88	44.87	9.351e2	7.519e2	1.240	1.24	NO	0.23455	0.23455
9	119 PCB-137	45.25	45.25	9.249e2	7.825e2	1.240	1.18	NO	0.23252	0.23252





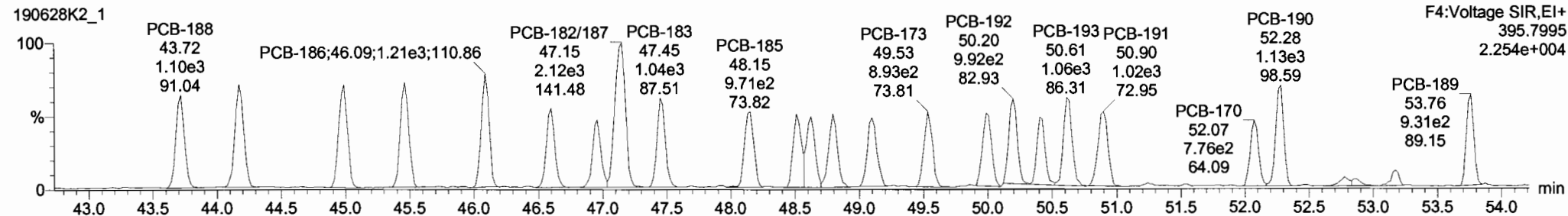
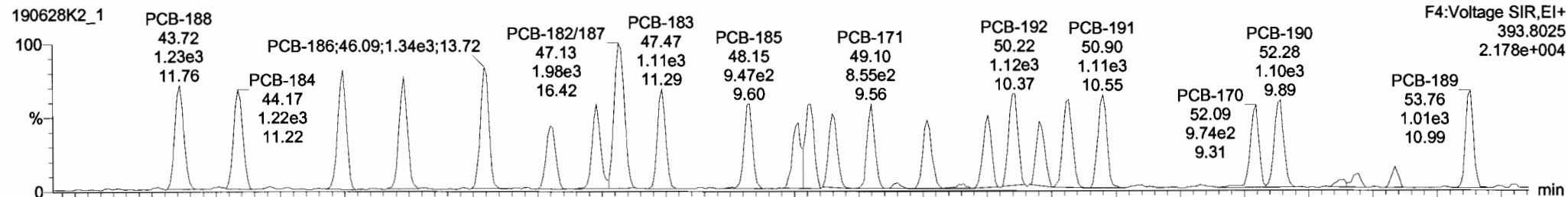
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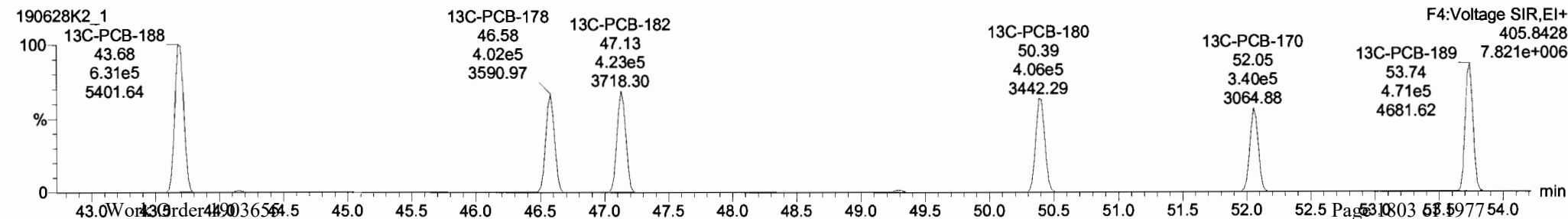
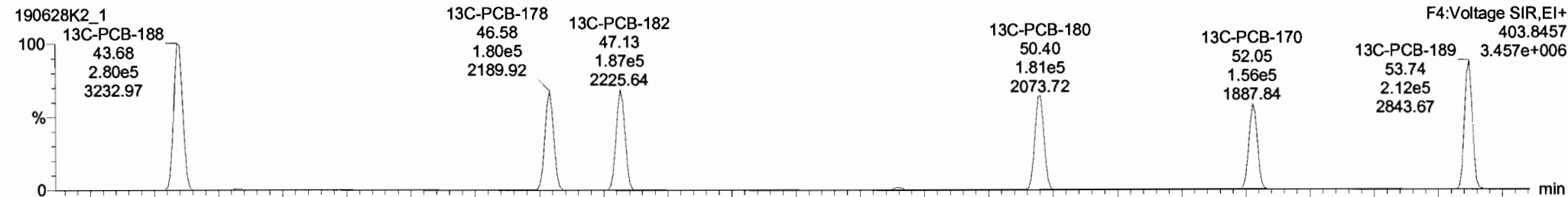
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PCB-188



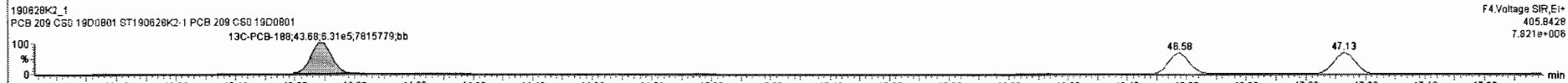
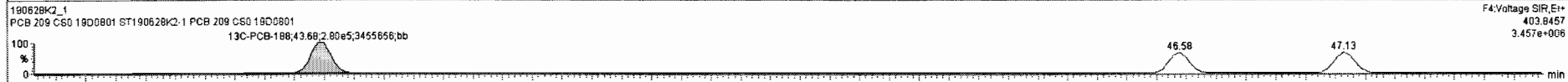
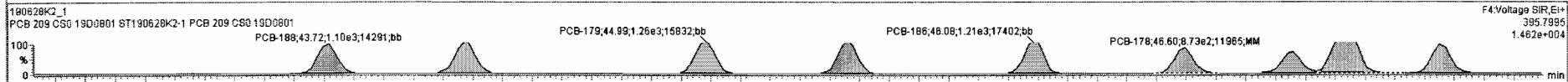
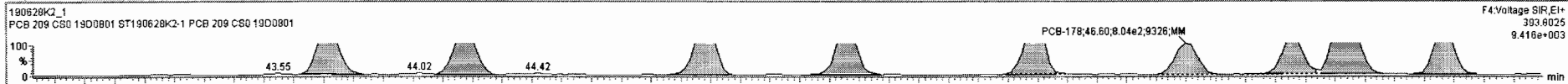
13C-PCB-188



190628K2\_1 - ST190628K2-1 PCB 209 CS0 19D0801 - PCB 209 CS0 19D0801

#	Name	Resp	RA	n/y	RRF	wtAwt	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
219	13C-PCB-205	8.28e5	0.91	NO	1.0000	1.000	55.80	55.60	1.000	0.000	NO	100.0	100	0.0453	
220	13C-PCB-79	1.31e6	0.77	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	101.6	102	0.0680	
221	13C-PCB-178	5.82e5	0.45	NO	0.8746	1.000	46.58	46.58	0.968	0.968	NO	105.4	105	0.0722	
222	13C-PCB-79	1.31e6	0.78	NO	1.0454	1.000	38.46	38.47	0.968	0.968	NO	101.0	101	0.0612	
223	13C-PCB-178	5.81e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	101.8	102	0.0718	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000	0.6823	NO		0.0291	0.6823	
225	Total Di-PCBs				1.0592	1.000	0.00		0.000	2.753	NO		0.170	2.753	
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000	1.895	NO		0.0699	1.895	
227	3rd Function Tri-PCBs				1.0566	1.000	0.00		0.000	3.738	NO		0.197	3.738	
228	Total Tetra-PCBs				0.9861	1.000	0.00		0.000	9.554	NO		0.359	9.554	
229	3rd Function Penta-PCBs				1.1152	1.000	0.00		0.000	9.374	NO		0.418	9.594	
230	4th Function Penta-PCBs				1.1112	1.000	0.00		0.000	1.134	NO		0.0809	1.134	
231	3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000	3.259	NO		0.0622	3.259	
232	4th Function Hexa-PCBs				0.9712	1.000	0.00		0.000	6.404	NO		0.202	6.404	
233	Total Hepta-PCBs				1.2636	1.000	0.00		0.000	5.544	NO		0.637	5.544	

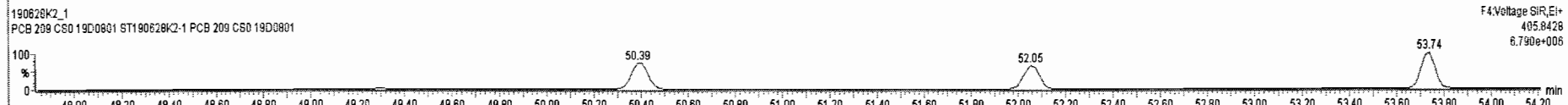
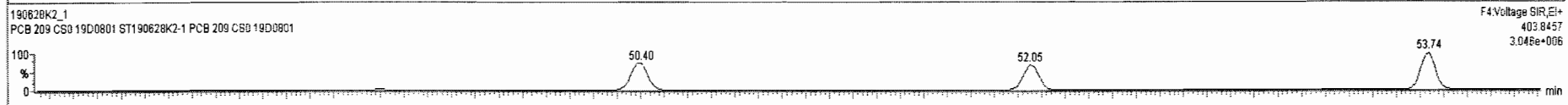
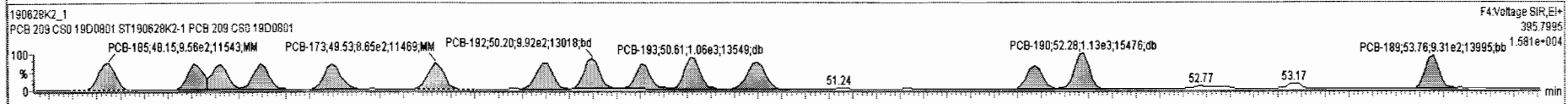
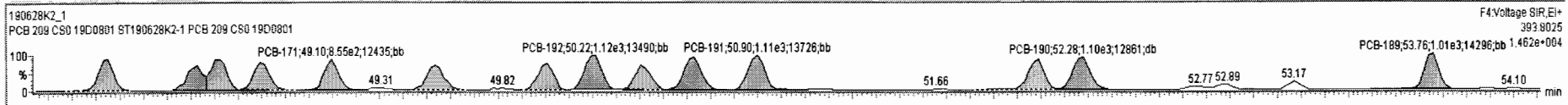
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
15	145 PCB-173	49.56	49.53	7.985e2	8.654e2	1.050	0.92	NO	0.24820	0.24820
16	146 PCB-172	50.02	50.01	8.589e2	9.364e2	1.050	0.92	NO	0.23386	0.23386
17	147 PCB-192	50.22	50.22	1.124e3	9.915e2	1.050	1.13	NO	0.21172	0.21172
18	148 PCB-180	50.43	50.40	7.893e2	7.589e2	1.050	1.01	NO	0.19709	0.19709
19	149 PCB-193	50.64	50.63	1.105e3	1.057e3	1.050	1.05	NO	0.23910	0.23910
20	150 PCB-191	50.90	50.90	1.108e3	1.021e3	1.050	1.09	NO	0.23038	0.23038
21	151 PCB-170	52.07	52.08	9.365e2	7.765e2	1.050	1.21	NO	0.25399	0.25399
22	152 PCB-190	52.26	52.28	1.102e3	1.133e3	1.050	0.97	NO	0.24484	0.24484
23	153 PCB-189	53.76	53.78	1.008e3	9.308e2	1.050	1.08	NO	0.21302	0.21302



190628K2\_1 - ST190628K2-1.PCB 209 CS0 19D0801 - PCB 209 CS0 19D0801

#	Name	Resp	RA	n/y	RRF	wVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
219	13C-PCB-205	8.28e5	0.91	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0453	
220	13C-PCB-79	1.31e6	0.77	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	101.6	102	0.0590	
221	13C-PCB-178	5.82e5	0.45	NO	0.8746	1.000	46.59	46.59	0.968	0.968	NO	105.4	105	0.0722	
222	13C-PCB-79	1.31e6	0.76	NO	1.0454	1.000	38.46	38.47	0.968	0.968	NO	101.0	101	0.0612	
223	13C-PCB-178	5.81e5	0.45	NO	0.9749	1.000	46.59	46.59	0.924	0.924	NO	101.6	102	0.0718	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	0.6823		0.0291	0.6823
225	Total Di-PCBs				1.0582	1.000	0.00		0.000		NO	2.753		0.170	2.753
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	1.895		0.0699	1.895
227	3rd Function Tri-PCBs				1.0566	1.000	0.00		0.000		NO	3.738		0.197	3.738
228	Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	9.554		0.358	9.554
229	3rd Function Penta-PCBs				1.1152	1.000	0.00		0.000		NO	9.374		0.418	9.594
230	4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	1.134		0.0809	1.134
231	3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	3.259		0.0622	3.259
232	4th Function Hexa-PCBs				0.9712	1.000	0.00		0.000		NO	6.404		0.202	6.404
233	Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	5.544		0.637	5.544

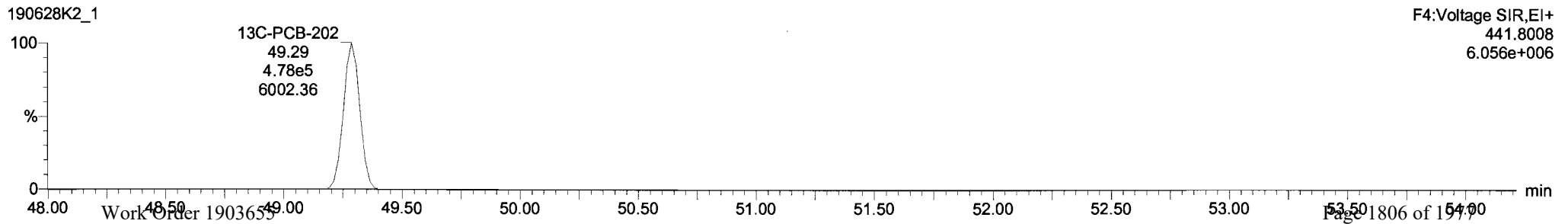
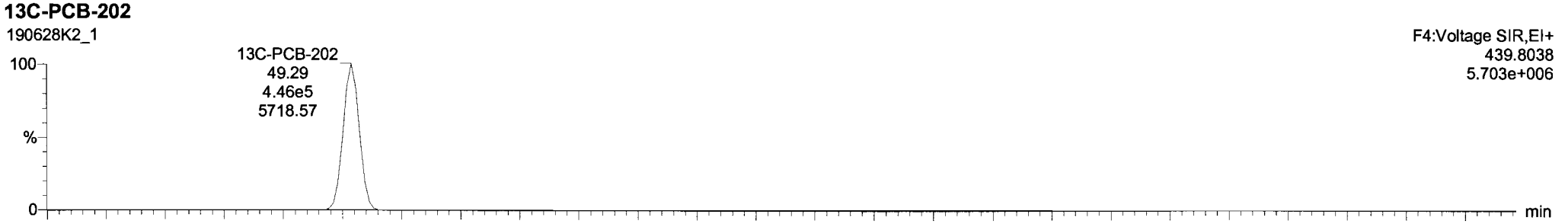
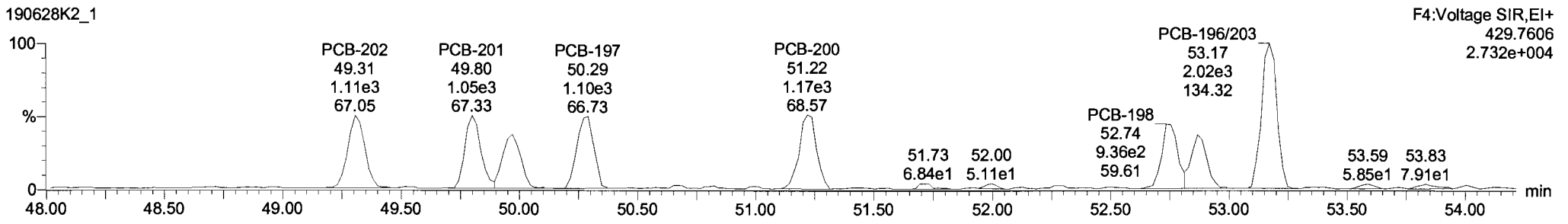
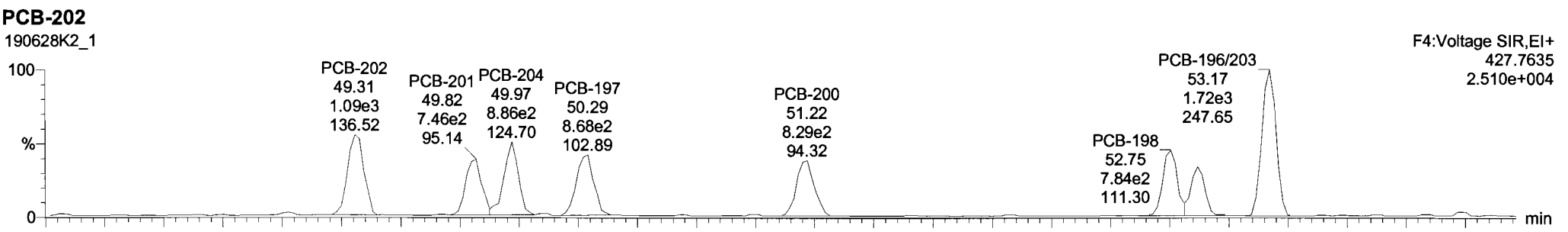
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
15	145 PCB-173	49.56	49.53	7.985e2	8.654e2	1.050	0.92	NO	0.24820	0.24820
16	146 PCB-172	50.02	50.01	8.598e2	9.384e2	1.050	0.92	NO	0.23365	0.23365
17	147 PCB-192	50.22	50.22	1.124e3	9.915e2	1.050	1.13	NO	0.21172	0.21172
18	148 PCB-180	50.43	50.40	7.893e2	7.588e2	1.050	1.01	NO	0.19709	0.19709
19	149 PCB-193	50.64	50.63	1.105e3	1.057e3	1.050	1.05	NO	0.23910	0.23910
20	150 PCB-191	50.90	50.90	1.108e3	1.021e3	1.050	1.09	NO	0.23038	0.23038
21	151 PCB-170	52.07	52.09	9.365e2	7.765e2	1.050	1.21	NO	0.25399	0.25399
22	152 PCB-190	52.26	52.28	1.102e3	1.133e3	1.050	0.97	NO	0.24484	0.24484
23	153 PCB-189	53.76	53.76	1.008e3	9.308e2	1.050	1.08	NO	0.21302	0.21302



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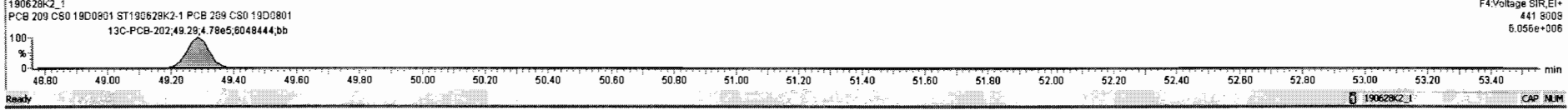
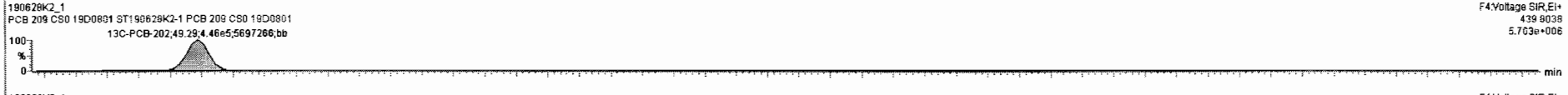
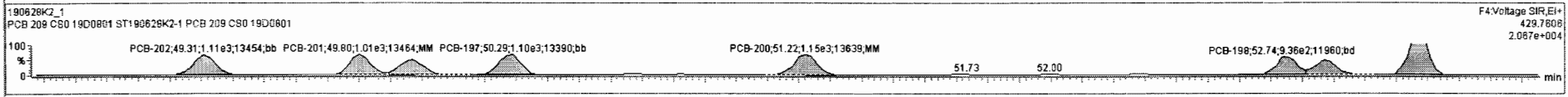
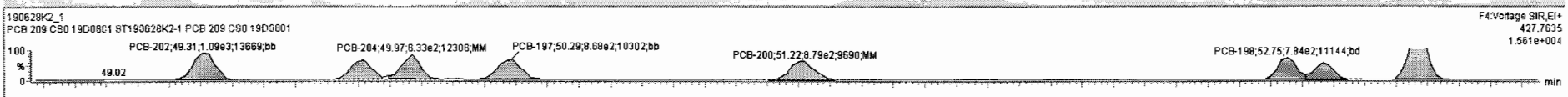
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190628K2\_1 - ST190628K2-1 PCB 209 C50 19D0801 - PCB 209 C50 19D0801

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred_RT	RT	Pred_R	RRT	RRT_Fail	Conc.	%Rec	DL	EMPC
219	13C-PCB-205	8.28e5	0.91	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0453	
220	13C-PCB-79	1.31e6	0.77	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	101.6	102	0.0690	
221	13C-PCB-178	5.82e5	0.45	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	105.4	105	0.0722	
222	13C-PCB-79	1.31e6	0.78	NO	1.0454	1.000	38.46	38.47	0.988	0.988	NO	101.0	101	0.0612	
223	13C-PCB-178	5.81e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	101.5	102	0.0718	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	0.6823		0.0291	0.6823
225	Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	2.753		0.170	2.753
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	1.895		0.0699	1.895
227	3rd Function Tri-PCBs				1.0566	1.000	0.00		0.000		NO	3.738		0.197	3.738
228	Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	9.554		0.358	9.554
229	3rd Function Penta-PCBs				1.1152	1.000	0.00		0.000		NO	9.374		0.418	9.594
230	4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	1.134		0.0809	1.134
231	3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	3.259		0.0622	3.259
232	4th Function Hexa-PCBs				0.9712	1.000	0.00		0.000		NO	6.404		0.202	6.404
233	Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	5.544		0.637	5.544

#	Name	Pred_RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	154 PCB-202	49.33	49.31	1.085e3	1.110e3	0.890	0.96	NO	0.23193	0.23193
2	155 PCB-201	49.79	49.82	7.715e2	1.014e3	0.890	0.76	NO	0.21104	0.21104
3	156 PCB-204	49.97	49.97	8.331e2	8.771e2	0.890	0.95	NO	0.18899	0.18899
4	157 PCB-197	50.26	50.29	8.681e2	1.103e3	0.890	0.79	NO	0.21781	0.21781
5	158 PCB-200	51.21	51.22	8.739e2	1.145e3	0.890	0.77	NO	0.22956	0.22956
6	159 PCB-198	52.75	52.75	7.838e2	9.355e2	0.890	0.84	NO	0.24960	0.24960
7	160 PCB-199	52.87	52.87	5.885e2	7.662e2	0.890	0.77	NO	0.20762	0.20762
8	161 PCB-196/203	53.17	53.17	1.717e3	2.023e3	0.890	0.85	NO	0.51554	0.51554

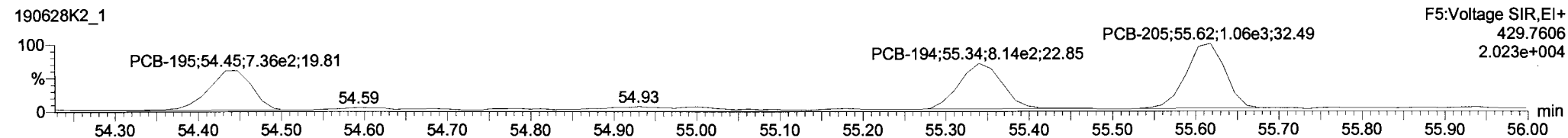
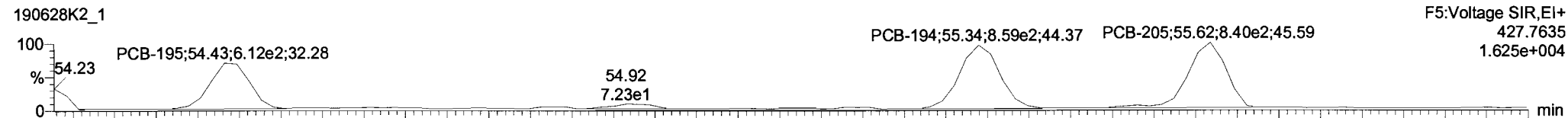


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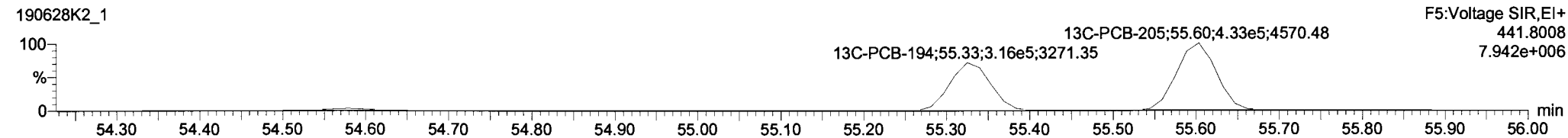
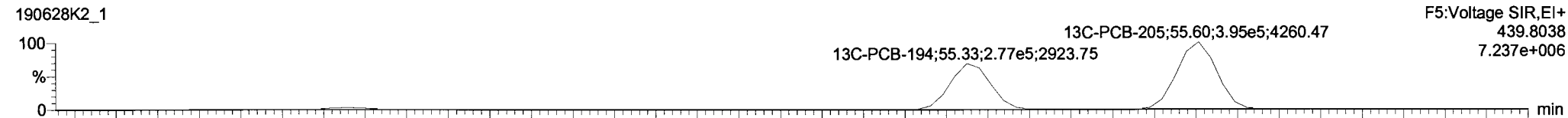
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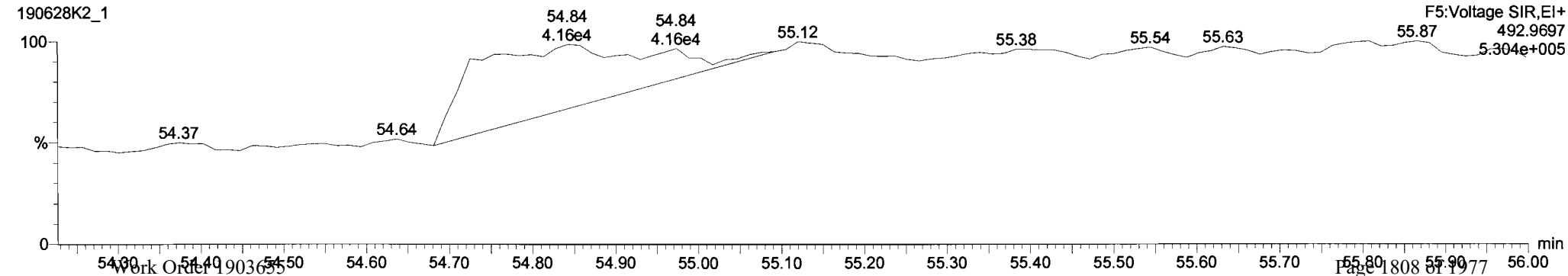
**PCB-195**



**13C-PCB-194**



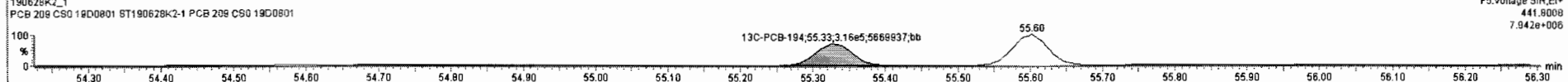
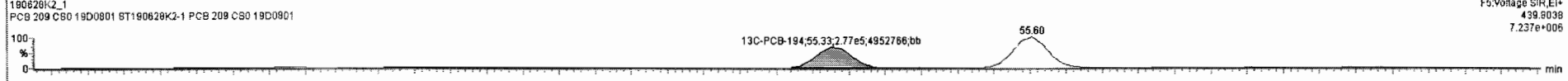
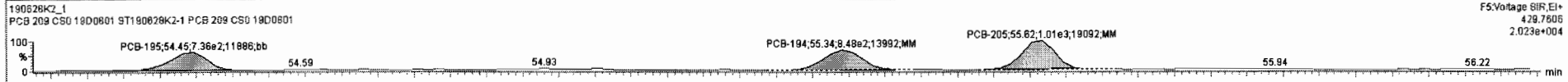
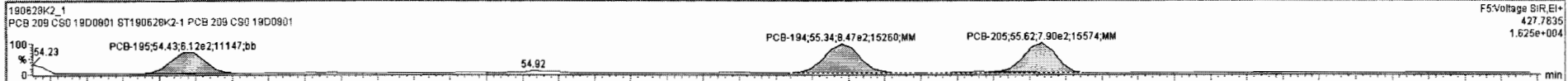
**PFK5**



190628K2\_1 - ST190628K2-1 PCB 209 CS0 19D0801 - PCB 209 CS0 19D0801

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
235	235 9th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	0.8826		0.0454	0.8826
236	236 Total Nona-PCBs				0.9446	1.000	0.00		0.000		NO	0.7083		0.0179	0.7083
237	237 Deca-CB				0.9426	1.000	0.00		0.000		NO	0.2291		0.00306	0.2291
238	238 Total PCBs														
239	239 Total Mono-Isotopes														
240	240 Total Di-Isotopes														
241	241 2nd Function Tri-Isotopes														
242	242 3rd Function Tri-Isotopes														
243	243 Tetra-Isotopes				0.9849	1.000	0.00		1.000		NO	908.5		0.560	0.0000
244	244 3rd Function Penta-Isotopes				0.9098	1.000	0.00		0.000		NO	712.8		0.260	0.0000
245	245 4th Function Penta-Isotopes				1.5424	1.000	0.00		0.000		NO	400.5		0.233	0.0000
246	246 4th Function Hexa-Isotopes				1.3060	1.000	0.00		0.000		NO	917.7		0.642	0.0000
247	247 Hepta-Isotopes														
248	248 9th Function Octa-Isotopes				0.8568	1.000	0.00		0.000		NO	200.5		0.109	0.0000
249	249 Nona-Isotopes														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	162 PCB-195	54.45	54.43	6.117e2	7.355e2	0.890	0.83	NO	0.21958	0.21958
2	163 PCB-194	55.34	55.34	8.467e2	8.476e2	0.890	1.00	NO	0.24686	0.24686
3	164 PCB-205	55.61	55.62	7.890e2	1.009e3	0.890	0.78	NO	0.21619	0.21619

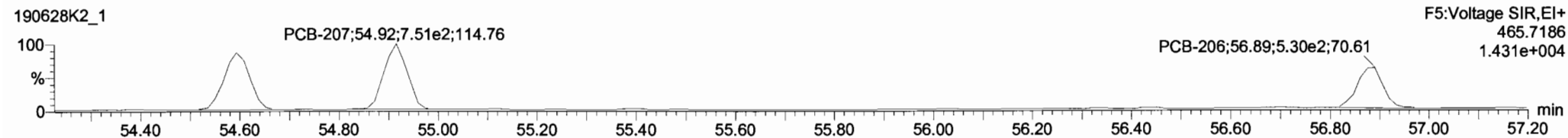
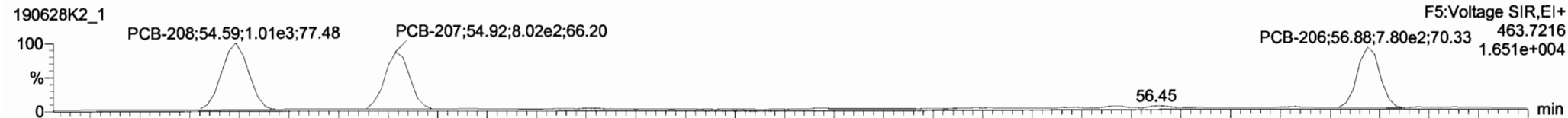


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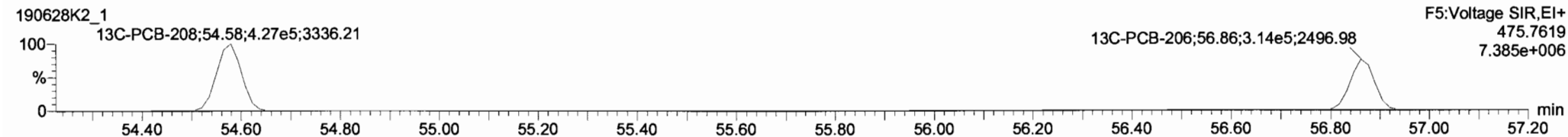
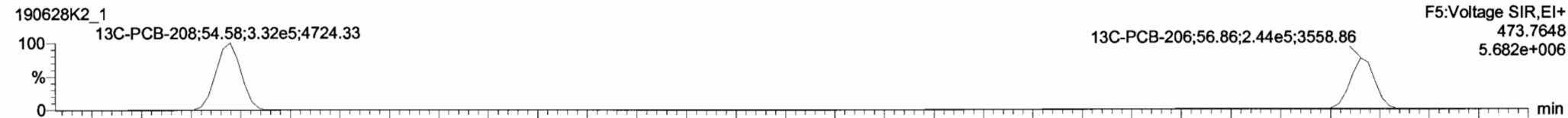
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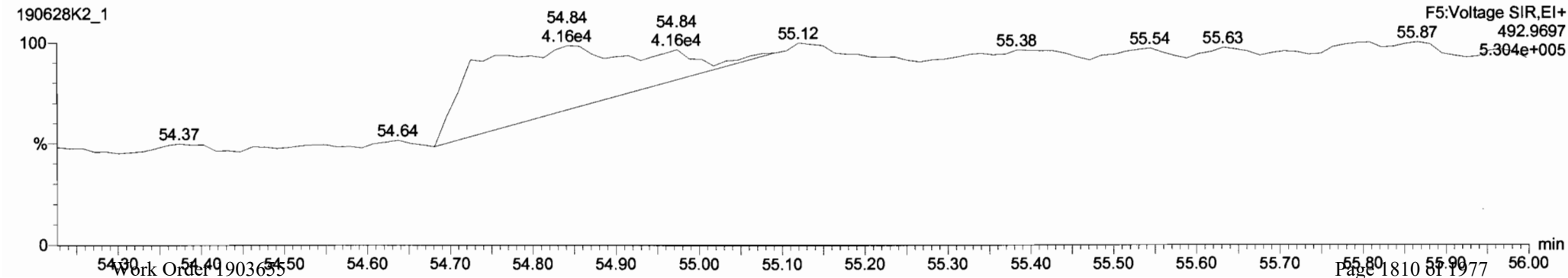
**PCB-208**



**13C-PCB-208**



**PFK5**

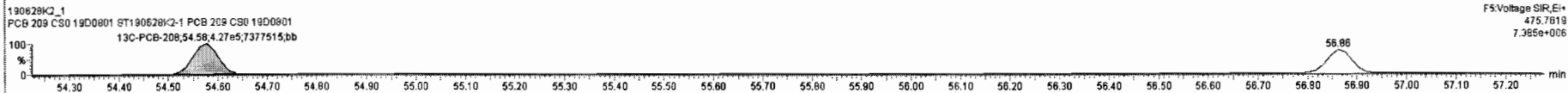
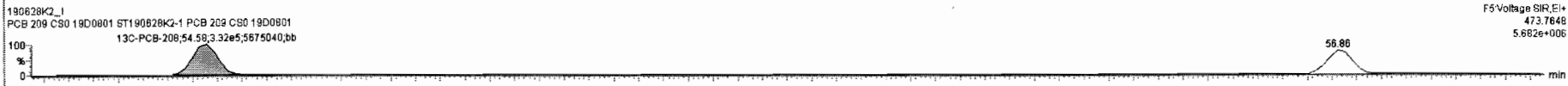
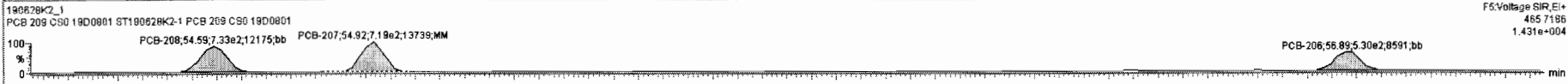
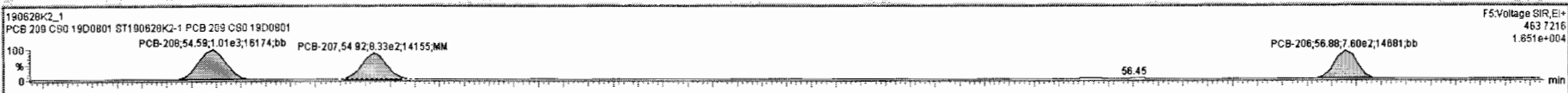




190628K2\_1 - ST190628K2-1 PCB 209 CS0 19D0801 - PCB 209 CS0 19D0801

#	Name	Resp	RA	rvy	RRT	wt/dvd	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
235	235 9th Function Octa-PCBs				1.1967	1.000	0.00	0.000			NO	0.6826		0.0454	0.6826
236	236 Total Nona-PCBs				0.9446	1.000	0.00	0.000			NO	0.7083		0.0179	0.7083
237	237 Deca-CB				0.9426	1.000	0.00	0.000			NO	0.2291		0.00306	0.2291
238	238 Total PCBs														
239	239 Total Mono-Isotopes														
240	240 Total Di-Isotopes														
241	241 2nd Function Tri-Isotopes														
242	242 3rd Function Tri-Isotopes														
243	243 Tetra-Isotopes				0.9849	1.000	0.00	1.000			NO	908.5		0.560	0.0000
244	244 3rd Function Penta-Isotopes				0.9098	1.000	0.00	0.000			NO	712.8		0.250	0.0000
245	245 4th Function Penta-Isotopes				1.5424	1.000	0.00	0.000			NO	400.5		0.233	0.0000
246	246 4th Function Hexa-Isotopes				1.3050	1.000	0.00	0.000			NO	917.7		0.642	0.0000
247	247 Hepta-Isotopes														
248	248 5th Function Octa-Isotopes				0.8568	1.000	0.00	0.000			NO	200.5		0.109	0.0000
249	249 Nona-Isotopes														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	rvy	EMPC	Conc.
1	165 PCB-208	54.60	54.59	1.013e3	7.329e2	1.340	1.38	NO	0.24617	0.24617
2	166 PCB-207	54.92	54.92	8.329e2	7.193e2	1.340	1.16	NO	0.22417	0.22417
3	167 PCB-206	56.88	56.88	7.804e2	5.303e2	1.340	1.47	NO	0.23797	0.23797



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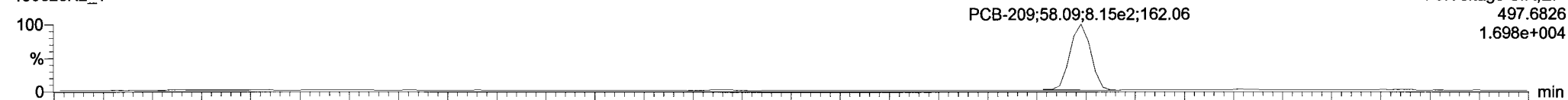
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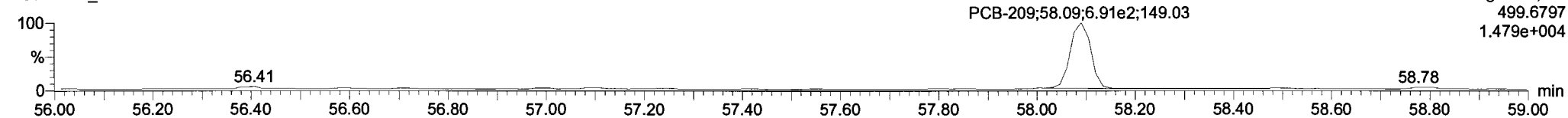
### PCB-209

190628K2\_1



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1.698e+004

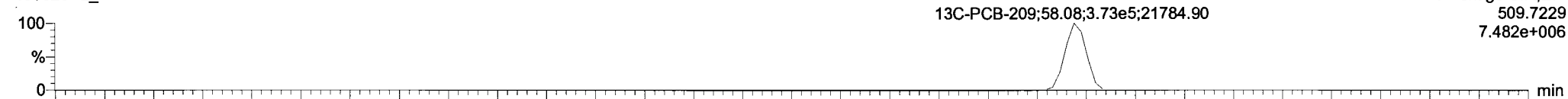
190628K2\_1



F5:Voltage SIR,EI+  
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1.479e+004

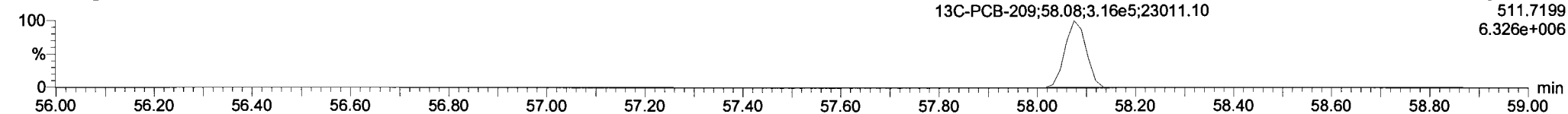
### 13C-PCB-209

190628K2\_1



F5:Voltage SIR,EI+  
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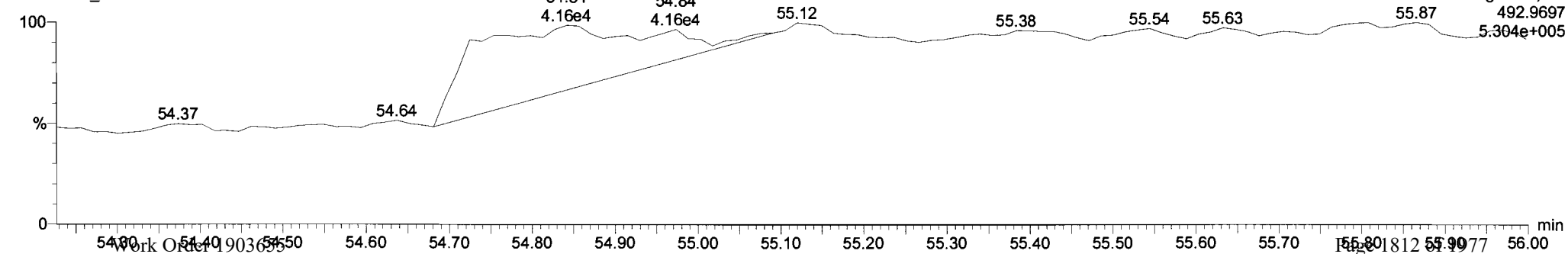
190628K2\_1



F5:Voltage SIR,EI+  
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### PFK5

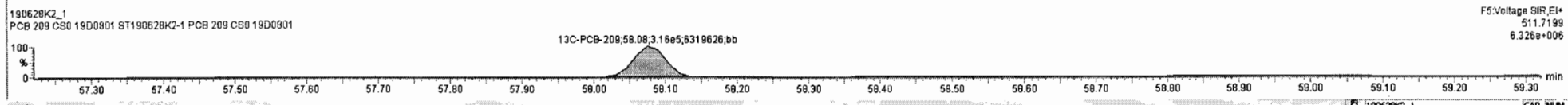
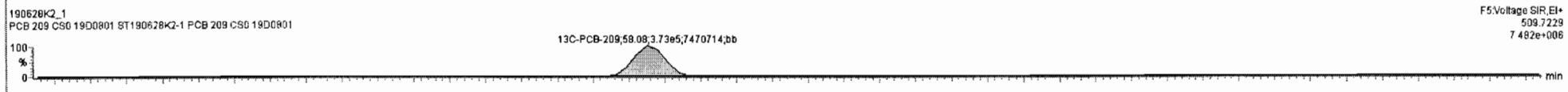
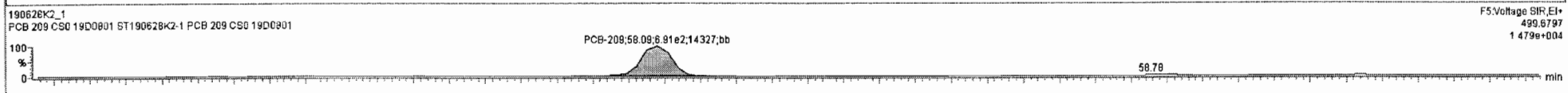
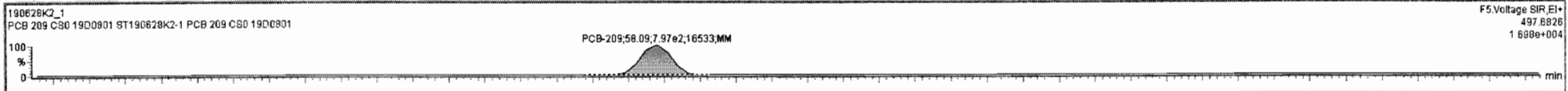
190628K2\_1



F5:Voltage SIR,EI+  
492.9697  
5.304e+005

#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	0.6826		0.0454	0.6826
236	236 Total Nona-PCBs				0.9446	1.000	0.00		0.000		NO	0.7083		0.0179	0.7083
237	237 Deca-CB				0.9426	1.000	0.00		0.000		NO	0.2291		0.00306	0.2291
238	238 Total PCBs														
239	239 Total Mono-Isotopes														
240	240 Total Di-Isotopes														
241	241 2nd Function Tri-Isotopes														
242	242 3rd Function Tri-Isotopes														
243	243 Tetra-Isotopes				0.9849	1.000	0.00		1.000		NO	908.5		0.580	0.0000
244	244 3rd Function Penta-Isotopes				0.9098	1.000	0.00		0.000		NO	712.8		0.250	0.0000
245	245 4th Function Penta-Isotopes				1.5424	1.000	0.00		0.000		NO	400.5		0.233	0.0000
246	246 4th Function Hexa-Isotopes				1.3060	1.000	0.00		0.000		NO	917.7		0.642	0.0000
247	247 Hepta-Isotopes														
248	248 5th Function Octa-Isotopes				0.8568	1.000	0.00		0.000		NO	200.5		0.109	0.0000
249	249 Nona-Isotopes														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
168	PCB-209	58.08	58.09	7.968e2	6.911e2	1.170	1.15	NO	0.22911	0.22911

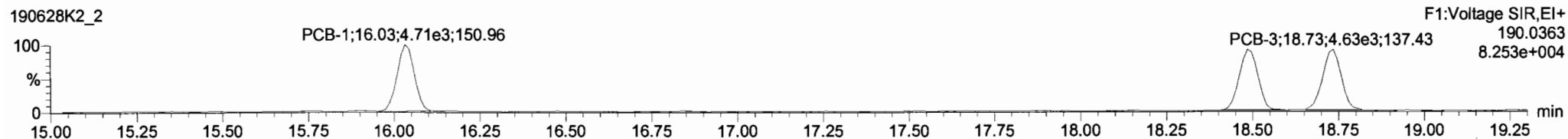


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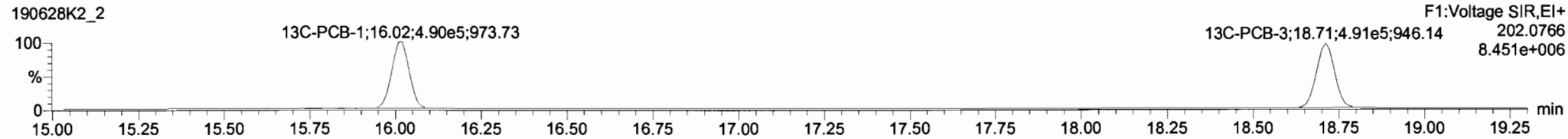
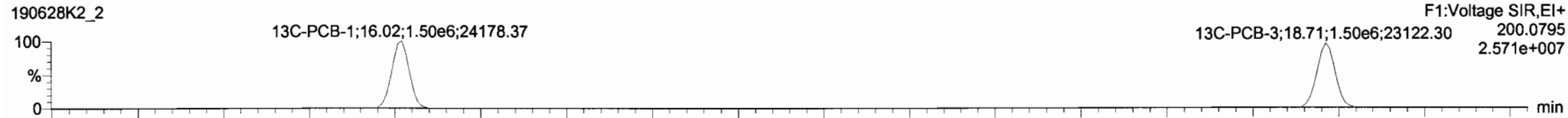
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Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_2, Date: 28-Jun-2019, Time: 17:34:41, ID: ST190628K2-2 PCB 209 CS1 19C1104, Description: PCB 209 CS1 19C1104

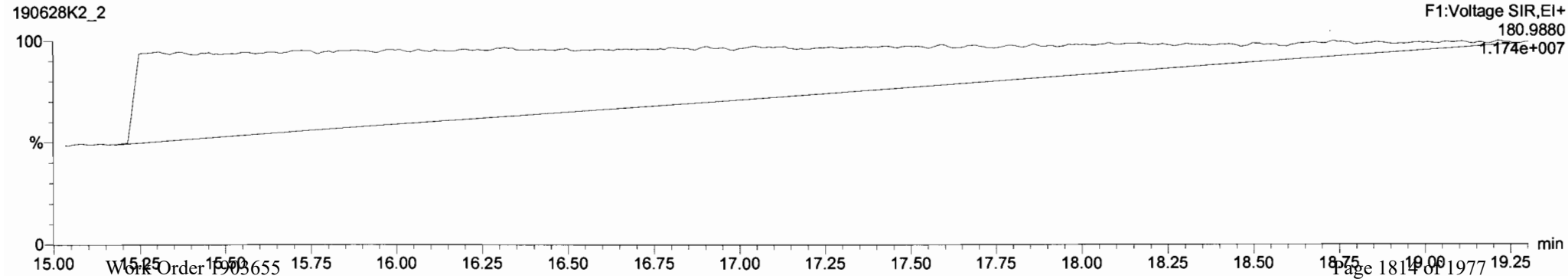
**PCB-1**



**13C-PCB-1**



**PFK1**



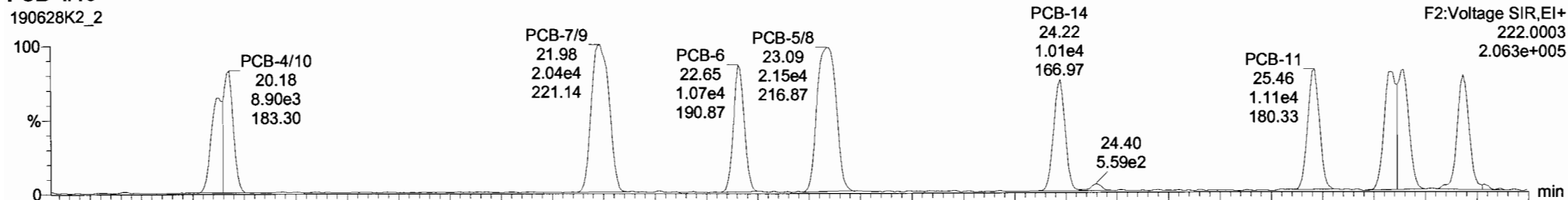
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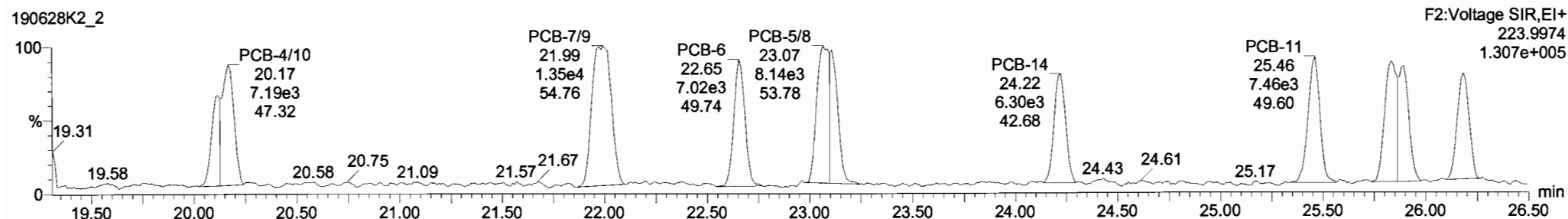
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**PCB-4/10**

190628K2\_2

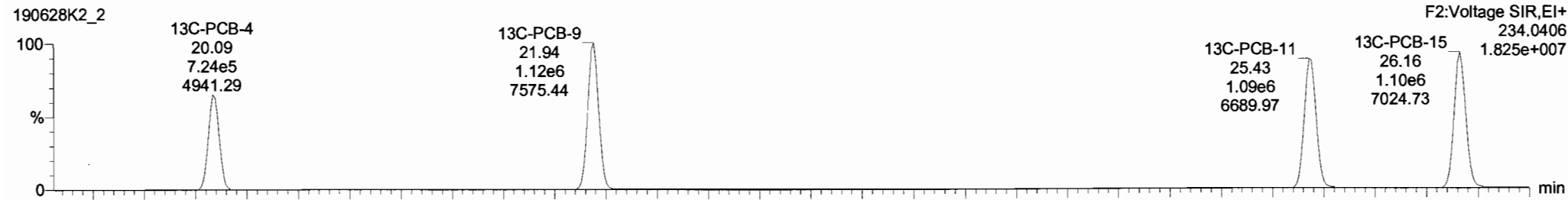


190628K2\_2

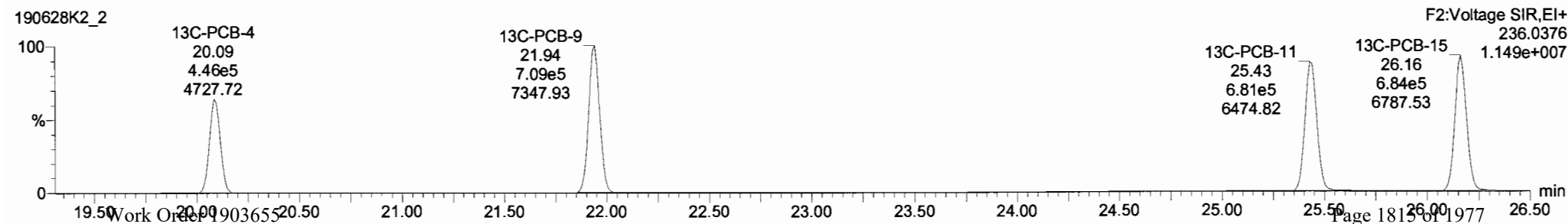


**13C-PCB-4**

190628K2\_2

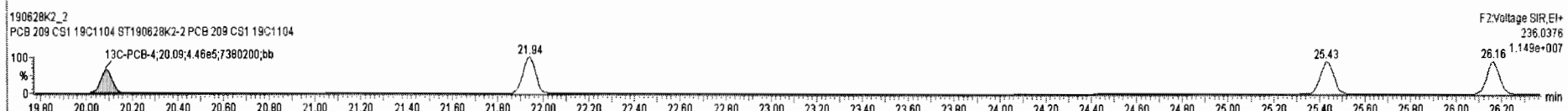
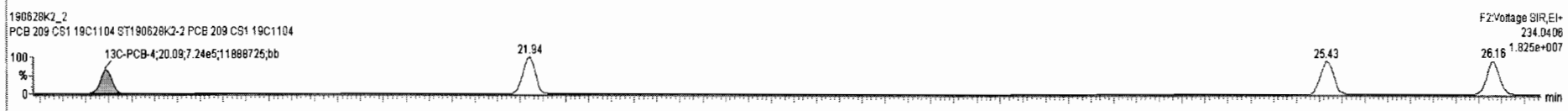
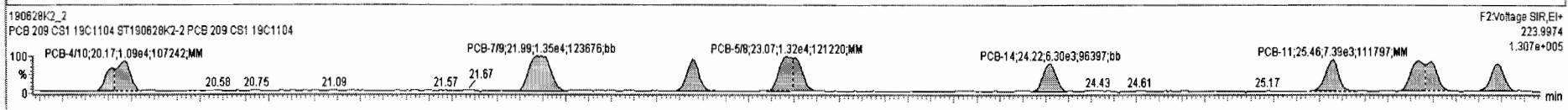
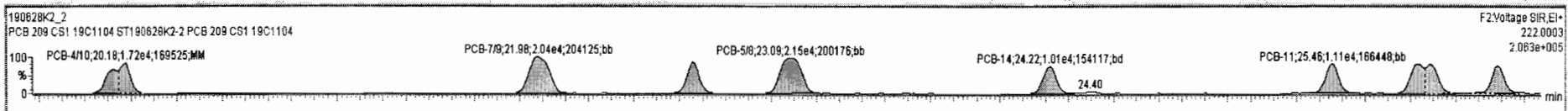


190628K2\_2



#	Name	Resp	RA	n/y	RRF	w/Vol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
217	13C-PCB-128	6.11e5	1.23	NO	1.0000	1.000	47.32	47.32	1.000	0.000	NO	100.0	100	0.0896	
218	13C-PCB-182	5.90e5	0.46	NO	1.0000	1.000	47.13	47.13	0.000	0.000	NO	100.0	100	0.0546	
219	13C-PCB-205	7.49e5	0.89	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0506	
220	13C-PCB-79	1.22e6	0.78	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	97.19	97.2	0.0754	
221	13C-PCB-178	5.37e5	0.46	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	100.5	101	0.0616	
222	13C-PCB-79	1.22e6	0.78	NO	1.0454	1.000	38.48	38.47	0.968	0.968	NO	97.92	97.9	0.0773	
223	13C-PCB-178	5.37e5	0.46	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	100.9	101	0.0625	
224	224 Total Mono-PCBs				1.0122	1.000	0.00	0.000			NO	2.888		0.0184	2.888
225	225 Total Di-PCBs				1.0592	1.000	0.00	0.000			NO	11.23		0.183	11.23
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00	0.000			NO	7.746		0.0647	7.745
227	227 3rd Function Tri-PCBs				1.0566	1.000	0.00	0.000			NO	15.09		0.234	15.09
228	228 Total Tetra-PCBs				0.8661	1.000	0.00	0.000			NO	40.04		1.06	40.03
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00	0.000			NO	39.34		0.435	39.34
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00	0.000			NO	4.728		0.0923	4.728
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00	0.000			NO	13.13		0.0560	13.13

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	4 PCB-4/10	20.17	20.18	1.721e4	1.068e4	1.560	1.58	NO	1.8820	1.8820
2	5 PCB-7/9	22.00	21.98	2.040e4	1.350e4	1.560	1.51	NO	1.8980	1.8983
3	6 PCB-6	22.65	22.65	1.073e4	7.025e3	1.560	1.53	NO	0.95900	0.95449
4	7 PCB-5/8	23.07	23.09	2.155e4	1.322e4	1.560	1.63	NO	1.8800	1.8800
5	8 PCB-14	24.22	24.22	1.007e4	6.298e3	1.560	1.80	NO	0.89800	0.89720
6	9 PCB-11	25.45	25.46	1.105e4	7.395e3	1.560	1.50	NO	0.95300	0.95265
7	10 PCB-12/13	25.82	25.89	2.118e4	1.287e4	1.560	1.64	NO	1.8590	1.8590
8	11 PCB-15	26.18	26.18	1.014e4	6.264e3	1.560	1.62	NO	0.90300	0.90312



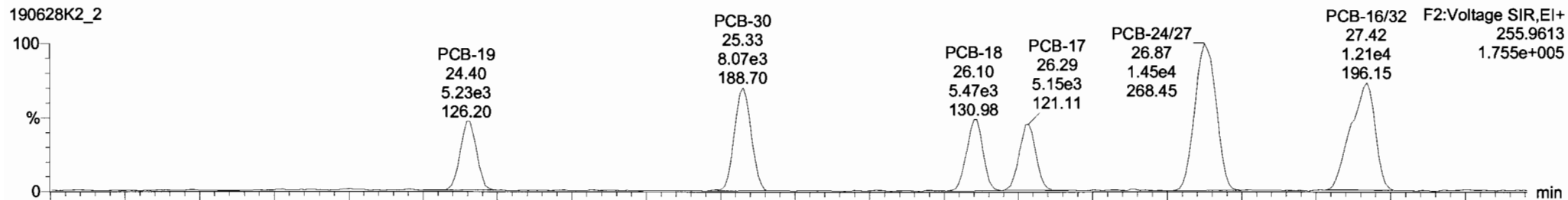
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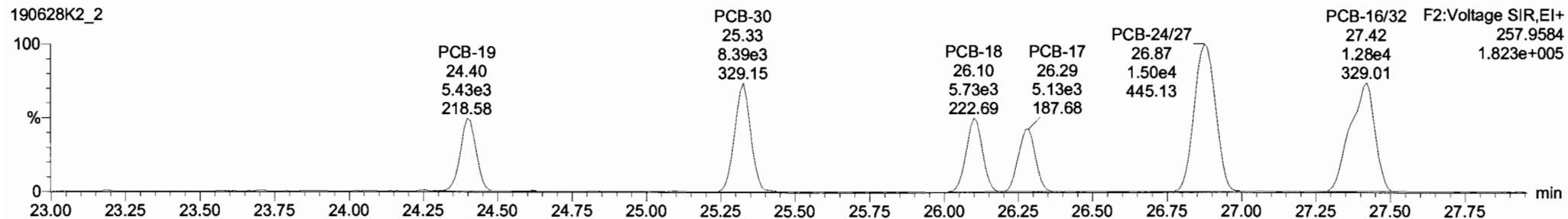
Name: 190628K2\_2, Date: 28-Jun-2019, Time: 17:34:41, ID: ST190628K2-2 PCB 209 CS1 19C1104, Description: PCB 209 CS1 19C1104

**PCB-19**

190628K2\_2

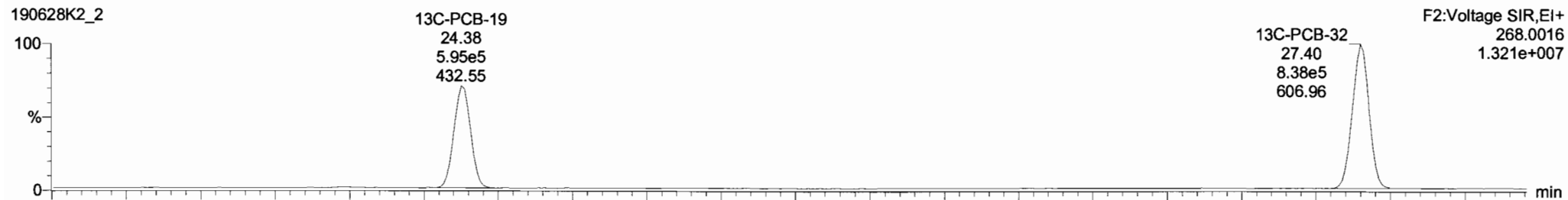


190628K2\_2

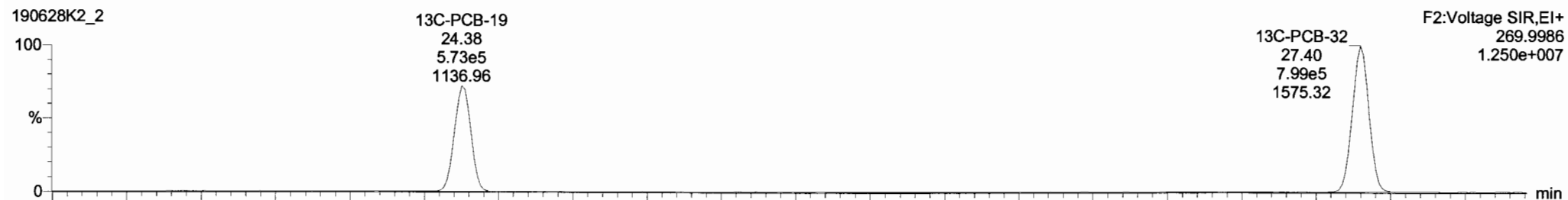


**13C-PCB-19**

190628K2\_2



190628K2\_2



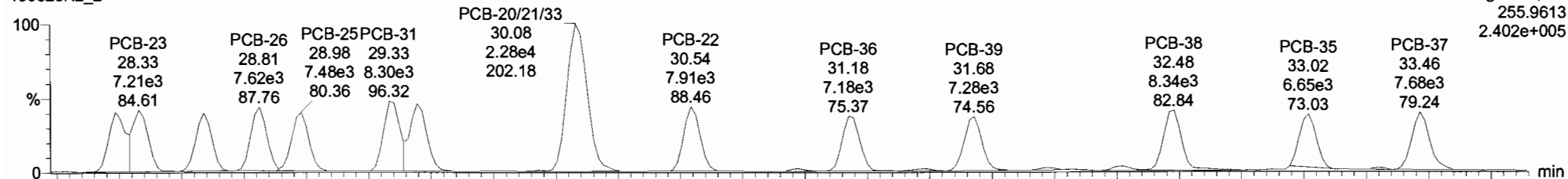
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Last Altered: Saturday, June 29, 2019 12:04:52 Pacific Daylight Time  
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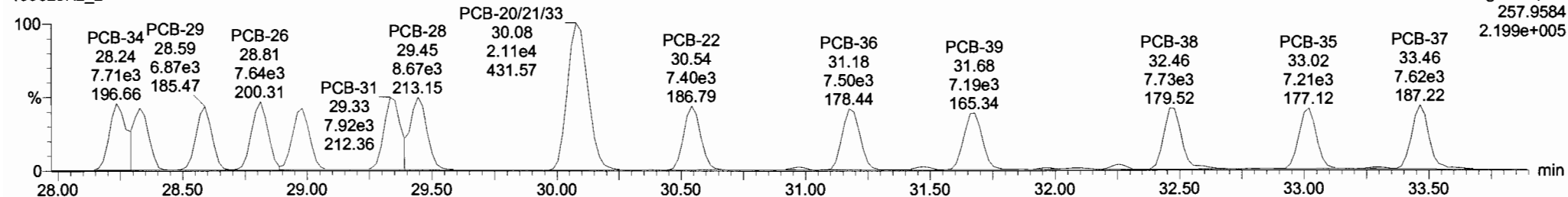
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**PCB-34**

190628K2\_2

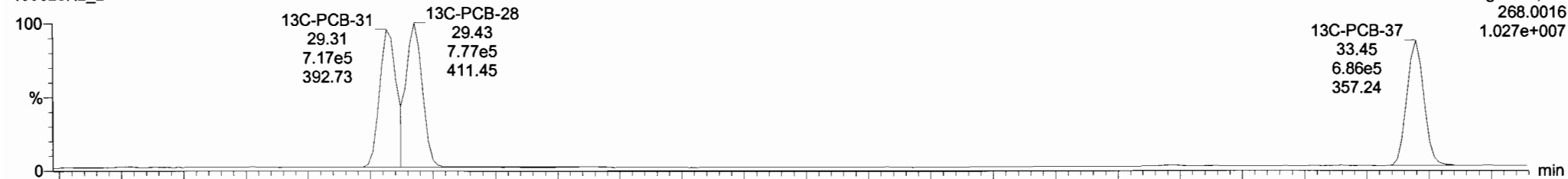


190628K2\_2

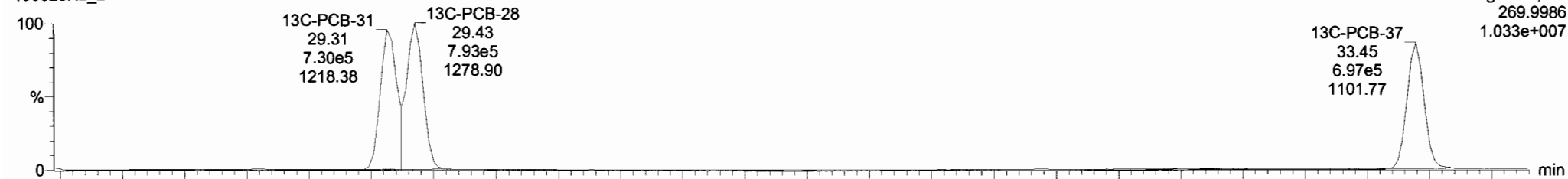


**13C-PCB-28**

190628K2\_2



190628K2\_2

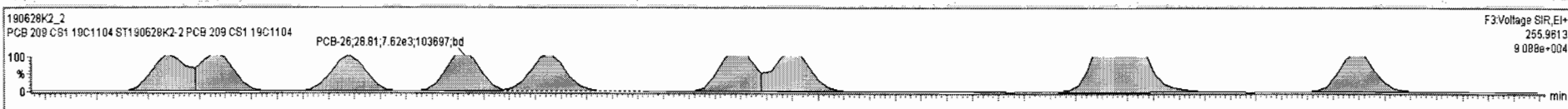




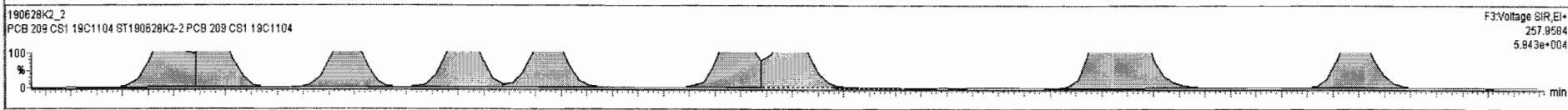
190628K2\_2 - ST190628K2-2 PCB 209 CS1 19C1104 - PCB 209 CS1 19C1104

#	Name	Resp	RA	nA	RRT	wtAval	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
217	217 13C-PCB-128	6.11e5	1.23	NO	1.0000	1.000	47.32	47.32	1.000	0.000	NO	100.0	100	0.0698	
218	218 13C-PCB-182	5.90e5	0.46	NO	1.0000	1.000	47.13	47.13	0.000	0.000	NO	100.0	100	0.0546	
219	219 13C-PCB-205	7.49e5	0.88	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0506	
220	220 13C-PCB-79	1.22e6	0.78	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	97.19	97.2	0.0754	
221	221 13C-PCB-178	5.37e5	0.46	NO	0.8746	1.000	46.59	46.59	0.988	0.988	NO	100.5	101	0.0616	
222	222 13C-PCB-79	1.22e6	0.78	NO	1.0454	1.000	38.48	38.47	0.968	0.968	NO	87.82	87.8	0.0773	
223	223 13C-PCB-178	5.37e5	0.46	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	100.9	101	0.0625	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	2.888		0.0184	2.889
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	11.23		0.183	11.23
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	7.746		0.0647	7.745
227	227 3rd Function Tri-PCBs				1.0586	1.000	0.00		0.000		NO	15.09		0.234	15.09
228	228 Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	40.04		1.06	40.03
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	39.34		0.435	39.34
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	4.729		0.0923	4.728
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	13.13		0.0580	13.13

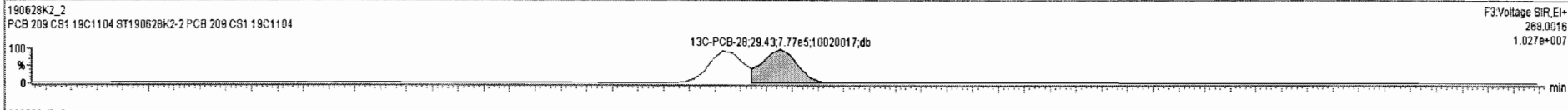
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nA	EMPC	Conc.
1	18 PCB-34	28.24	28.24	7.493e3	7.711e3	1.040	0.97	NO	0.98000	0.98085
2	19 PCB-23	28.33	28.33	7.212e3	6.573e3	1.040	1.10	NO	0.90100	0.90151
3	20 PCB-29	28.59	28.59	6.987e3	6.865e3	1.040	1.02	NO	0.92500	0.92550
4	21 PCB-26	28.81	28.81	7.620e3	7.639e3	1.040	1.00	NO	0.97100	0.97082
5	22 PCB-25	28.98	28.98	7.371e3	7.195e3	1.040	1.02	NO	0.94900	0.94876
6	23 PCB-31	29.33	29.33	8.286e3	7.915e3	1.040	1.05	NO	0.92000	0.91939
7	24 PCB-28	29.44	29.44	8.850e3	8.562e3	1.040	1.03	NO	1.0030	1.0029
8	25 PCB-20/21/33	30.07	30.08	2.279e4	2.110e4	1.040	1.08	NO	2.7860	2.7862
9	26 PCB-22	30.53	30.54	7.909e3	7.395e3	1.040	1.07	NO	0.94400	0.94373



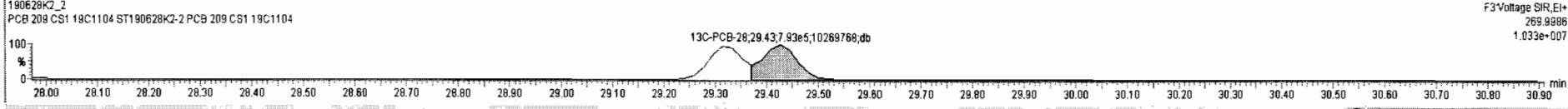
F3:Voltage SIR,EI+  
255.9613  
9.088e+004



F3:Voltage SIR,EI+  
257.9584  
5.943e+004



F3:Voltage SIR,EI+  
268.0616  
1.027e+007

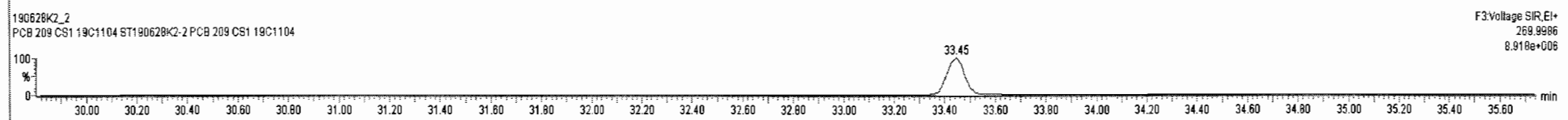
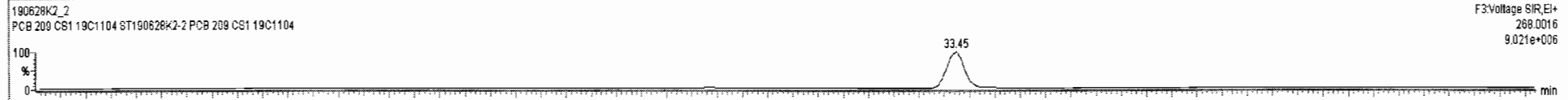
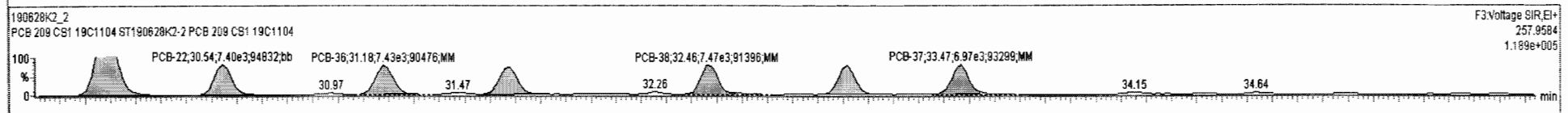
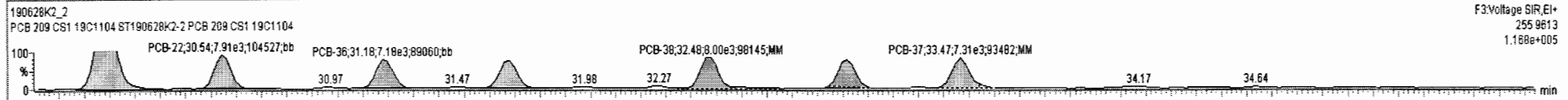


F3:Voltage SIR,EI+  
269.9886  
1.033e+007

190628K2\_2 - ST190628K2-2.PCB 209 CS1 19C1104 - PCB 209 CS1 19C1104

#	Name	Resp	RA	nly	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
217	13C-PCB-126	6.11e5	1.23	NO	1.0000	1.000	47.32	47.32	1.000	0.000	NO	100.0	100	0.0896	
218	13C-PCB-182	5.90e5	0.46	NO	1.0000	1.000	47.13	47.13	0.000	0.000	NO	100.0	100	0.0546	
219	13C-PCB-205	7.49e5	0.89	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0506	
220	13C-PCB-79	1.22e6	0.78	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	97.19	97.2	0.0754	
221	13C-PCB-178	5.37e5	0.46	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	100.5	101	0.0616	
222	13C-PCB-79	1.22e6	0.78	NO	1.0454	1.000	38.48	38.47	0.988	0.988	NO	97.92	97.9	0.0773	
223	13C-PCB-178	5.37e5	0.46	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	100.9	101	0.0625	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	2.888		0.0164	2.889
225	Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	11.23		0.183	11.23
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	7.746		0.0647	7.745
227	3rd Function Tri-PCBs				1.0566	1.000	0.00		0.000		NO	15.69		0.234	15.68
228	Total Tetra-PCBs				0.9661	1.000	0.00		0.000		NO	40.04		1.06	40.03
229	3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	39.34		0.435	39.34
230	4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	4.729		0.0923	4.728
231	3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	13.13		0.0560	13.13

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	18 PCB-34	28.24	28.24	7.493e3	7.711e3	1.040	0.97	NO	0.98000	0.98085
2	19 PCB-23	28.33	28.33	7.212e3	6.573e3	1.040	1.10	NO	0.90100	0.90151
3	20 PCB-26	28.58	28.58	6.987e3	6.866e3	1.040	1.02	NO	0.92500	0.92550
4	21 PCB-26	28.81	28.81	7.620e3	7.636e3	1.040	1.00	NO	0.97100	0.97082
5	22 PCB-25	28.98	28.98	7.371e3	7.195e3	1.040	1.02	NO	0.94900	0.94876
6	23 PCB-31	29.33	29.33	8.296e3	7.915e3	1.040	1.05	NO	0.92000	0.91939
7	24 PCB-28	29.44	29.44	8.850e3	8.562e3	1.040	1.03	NO	1.0030	1.0029
8	25 PCB-20/21/33	30.07	30.08	2.279e4	2.110e4	1.040	1.08	NO	2.7860	2.7862
9	26 PCB-22	30.53	30.54	7.909e3	7.395e3	1.040	1.07	NO	0.94400	0.94373



Vista Analytical Laboratory VG-11

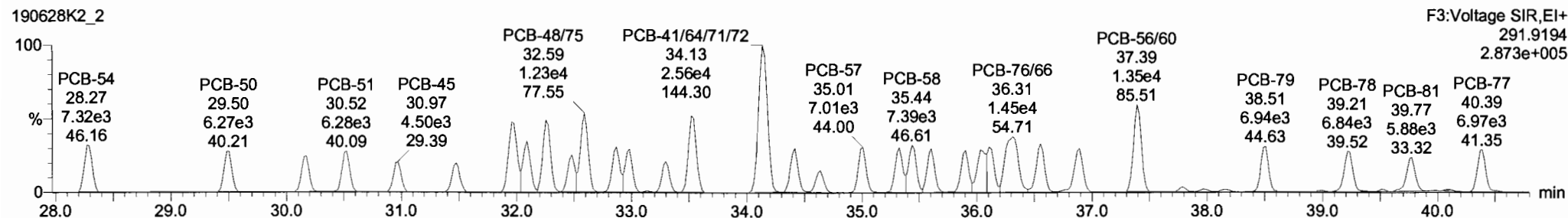
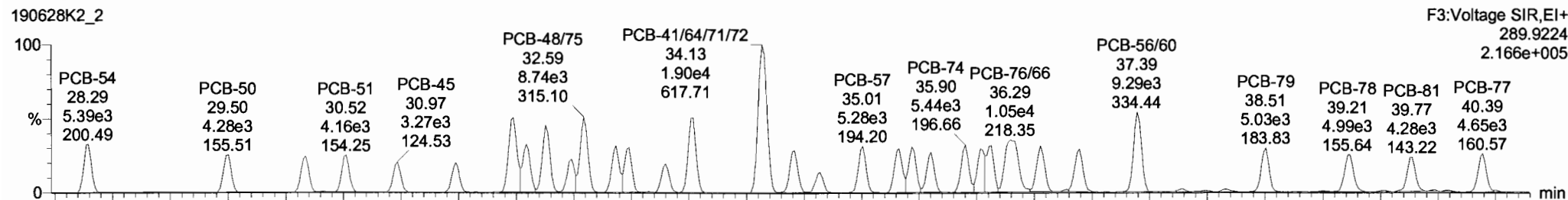
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Last Altered: Saturday, June 29, 2019 12:04:52 Pacific Daylight Time

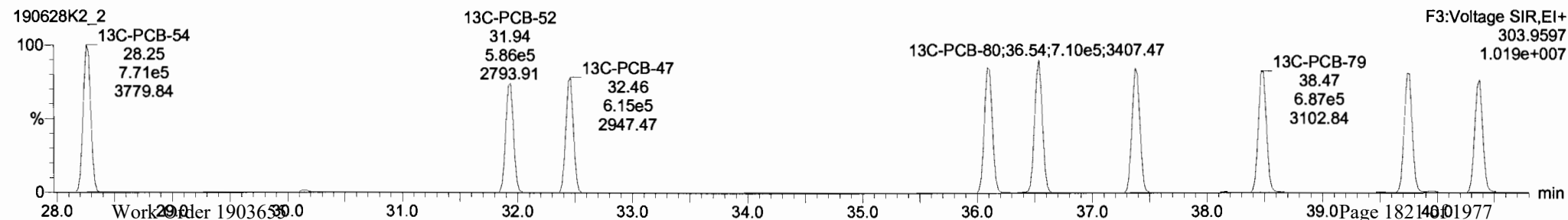
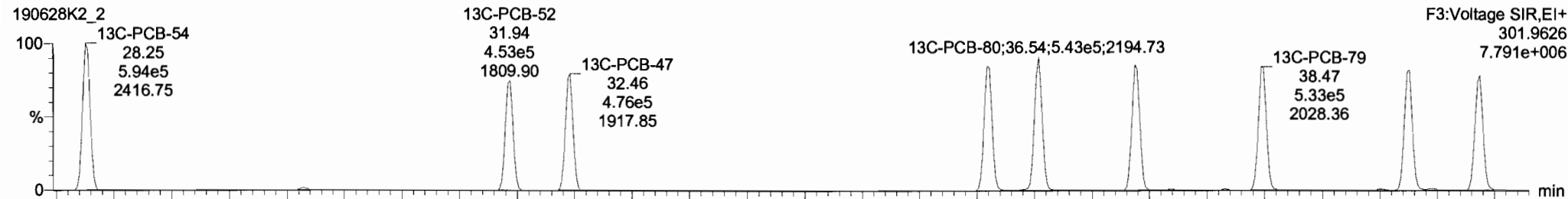
Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_2, Date: 28-Jun-2019, Time: 17:34:41, ID: ST190628K2-2 PCB 209 CS1 19C1104, Description: PCB 209 CS1 19C1104

PCB-54



13C-PCB-54

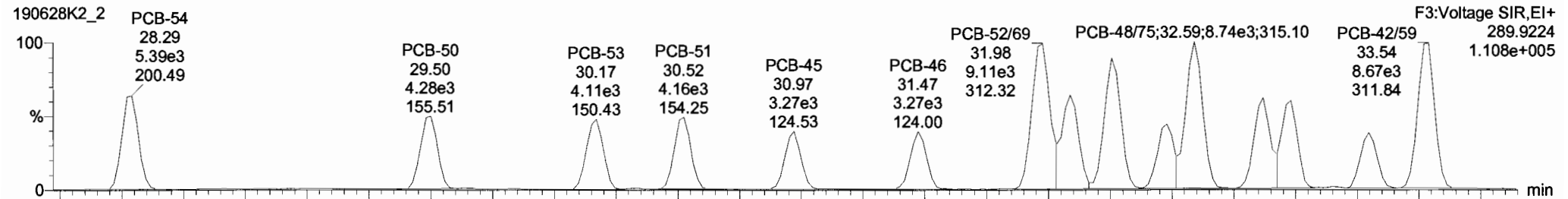


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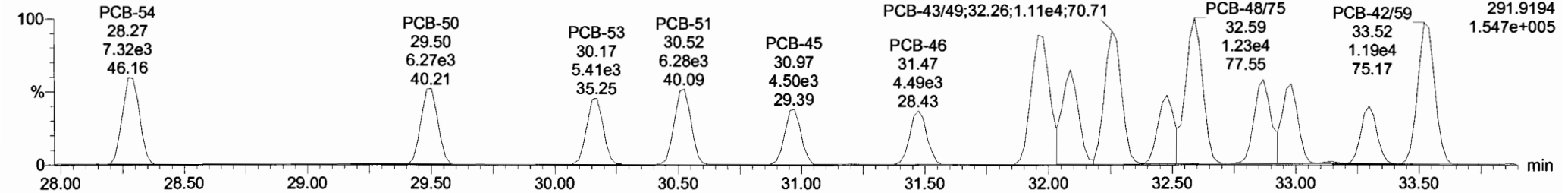
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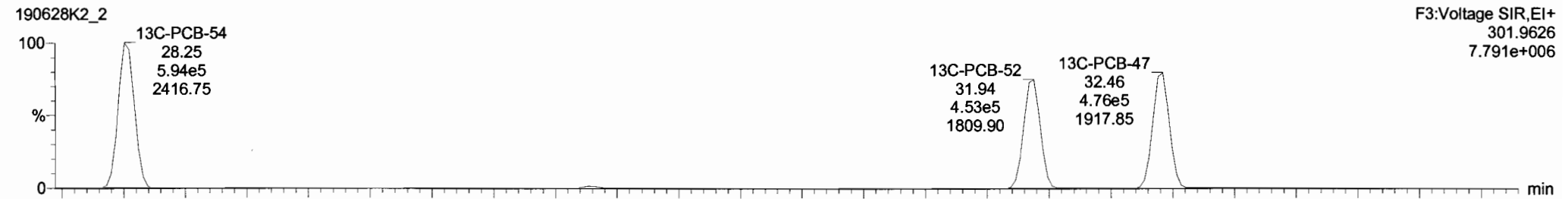
**PCB-50**



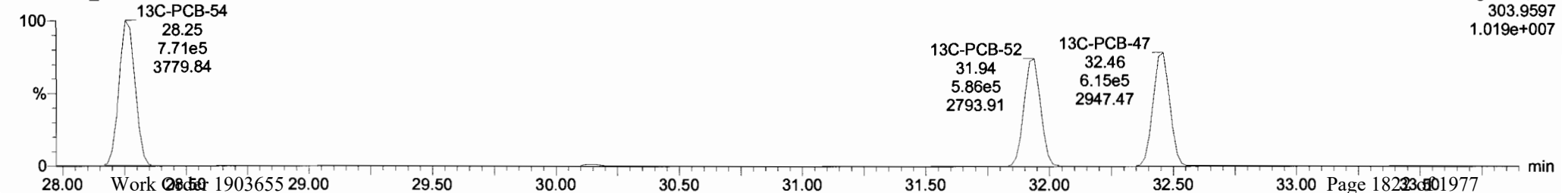
**190628K2\_2**



**13C-PCB-52**



**190628K2\_2**

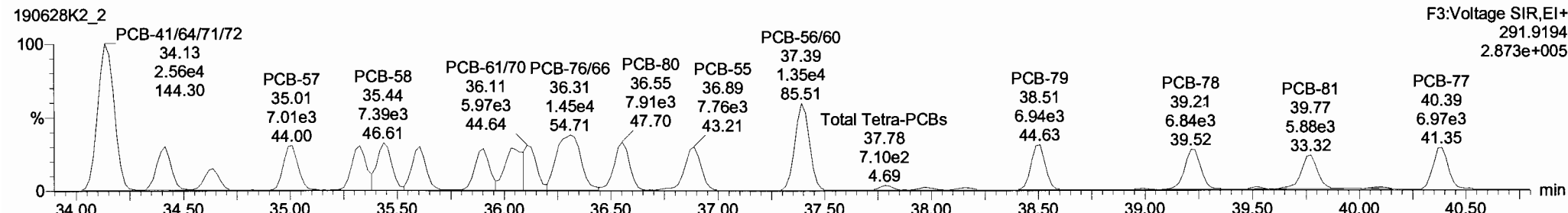
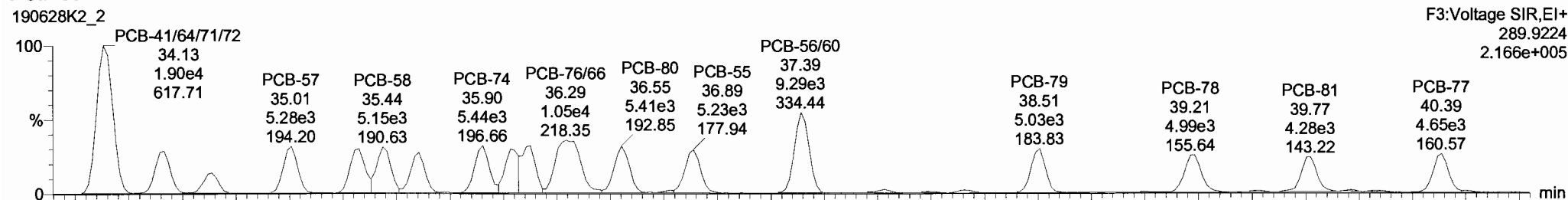


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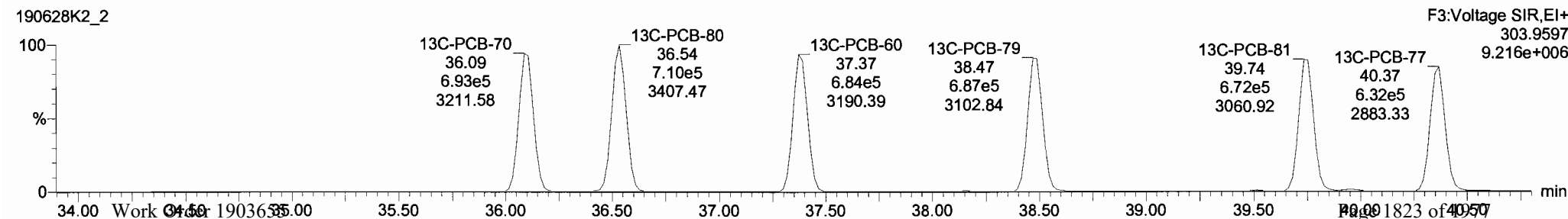
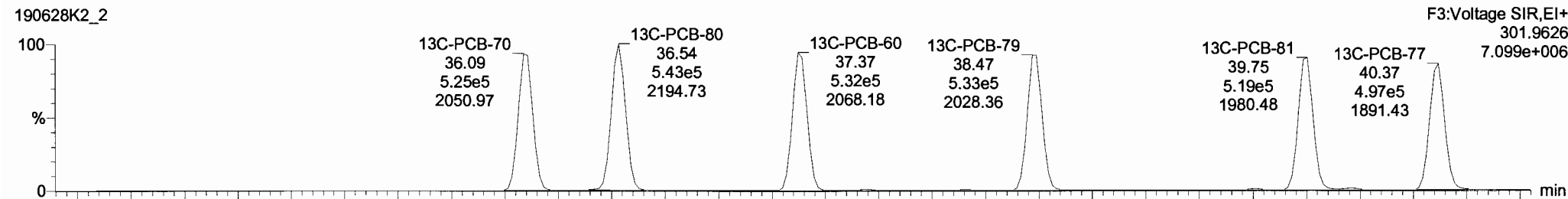
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Name: 190628K2\_2, Date: 28-Jun-2019, Time: 17:34:41, ID: ST190628K2-2 PCB 209 CS1 19C1104, Description: PCB 209 CS1 19C1104

**PCB-68**

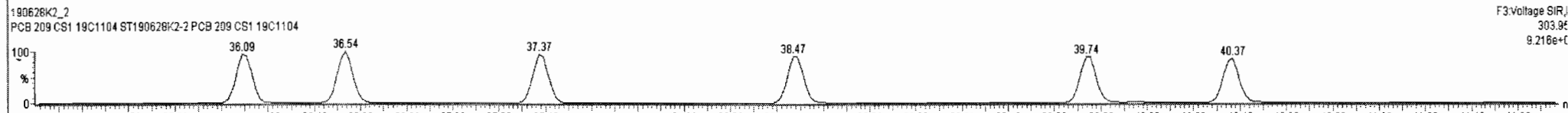
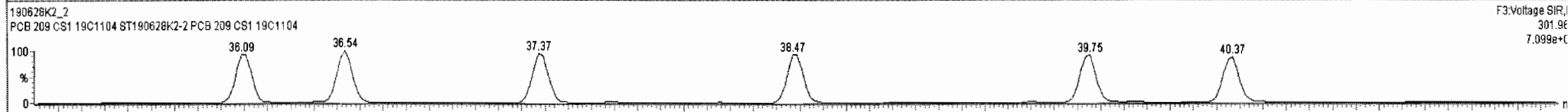
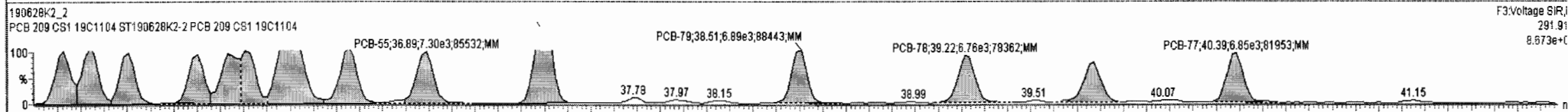
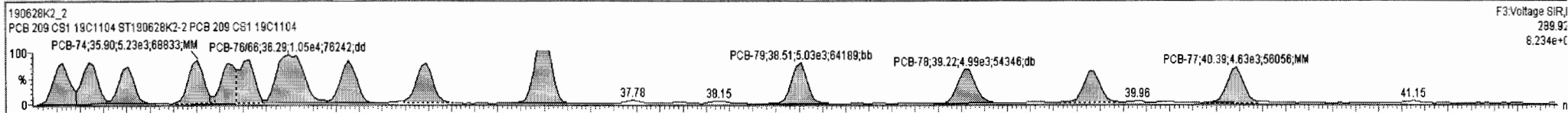


**13C-PCB-60**



#	Name	Resp	RA	n/y	RF	wtAvt	Pred.RT	RT	Pred.R.	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
217	217 13C-PCB-128	6.11e5	1.23	NO	1.0000	1.000	47.32	47.32	1.000	0.000	NO	100.0	100	0.0896	
218	218 13C-PCB-162	5.90e5	0.46	NO	1.0000	1.000	47.13	47.13	0.000	0.000	NO	100.0	100	0.0546	
219	219 13C-PCB-205	7.49e5	0.89	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0506	
220	220 13C-PCB-79	1.22e6	0.78	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	97.19	97.2	0.0754	
221	221 13C-PCB-178	5.37e5	0.48	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	100.5	101	0.0616	
222	222 13C-PCB-79	1.22e6	0.78	NO	1.0454	1.000	38.48	38.47	0.968	0.968	NO	97.92	97.9	0.0773	
223	223 13C-PCB-178	5.37e5	0.48	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	100.9	101	0.0625	
224	224 Total Mono-PCBs				1.0122	1.000	0.00	0.000	0.000		NO	2.888		0.0184	2.889
225	225 Total Di-PCBs				1.0592	1.000	0.00	0.000	0.000		NO	11.23		0.183	11.23
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00	0.000	0.000		NO	7.746		0.0647	7.745
227	227 3rd Function Tri-PCBs				1.0586	1.000	0.00	0.000	0.000		NO	15.09		0.234	15.09
228	228 Total Tetra-PCBs				0.9661	1.000	0.00	0.000	0.000		NO	40.04		1.06	40.03
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00	0.000	0.000		NO	39.34		0.435	39.34

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	32 PCB-54	28.27	28.29	5.394e3	7.318e3	0.770	0.74	NO	0.93600	0.93570
2	33 PCB-50	29.49	29.50	4.278e3	6.268e3	0.770	0.68	NO	0.99000	0.98938
3	34 PCB-53	30.18	30.17	4.108e3	5.414e3	0.770	0.76	NO	0.95900	0.95934
4	35 PCB-51	30.53	30.52	4.155e3	6.282e3	0.770	0.86	NO	0.98100	0.98112
5	36 PCB-45	30.87	30.97	3.269e3	4.501e3	0.770	0.73	NO	0.92600	0.92527
6	37 PCB-46	31.47	31.47	3.272e3	4.487e3	0.770	0.73	NO	0.99000	0.99071
7	38 PCB-52/69	31.98	31.98	9.107e3	1.179e4	0.770	0.77	NO	1.8410	1.8413



Vista Analytical Laboratory VG-11

Dataset: Untitled

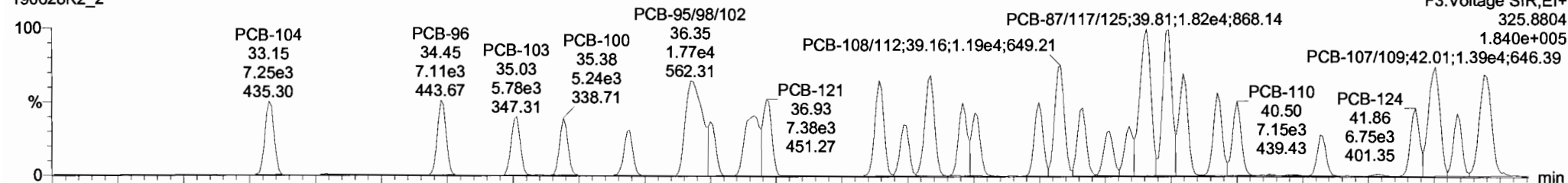
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Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

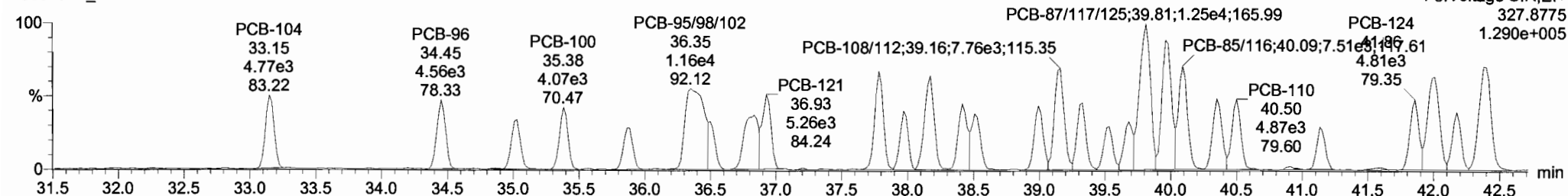
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PCB-104

190628K2\_2

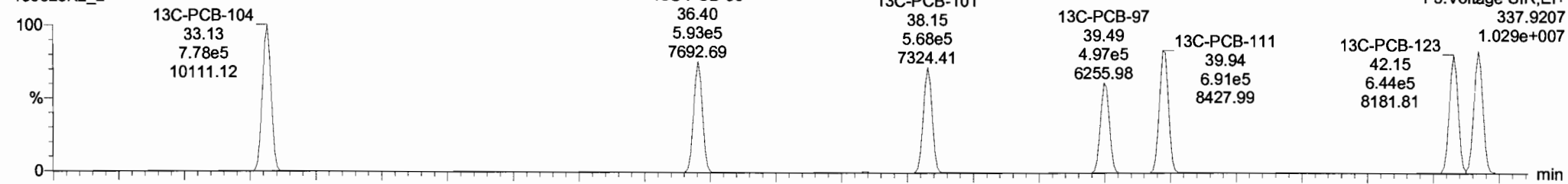


190628K2\_2

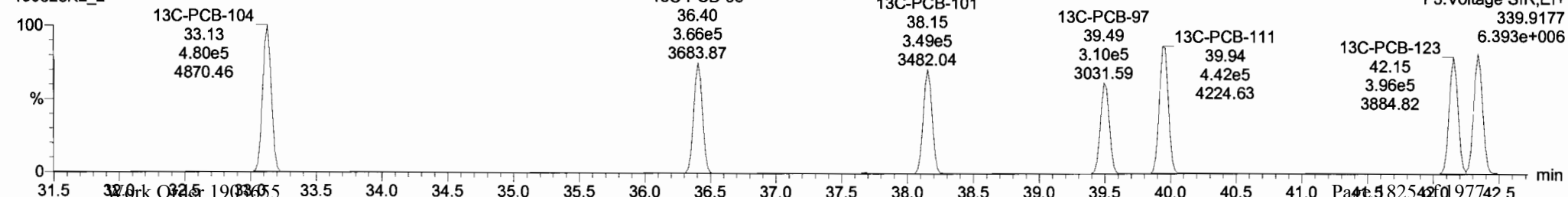


13C-PCB-104

190628K2\_2



190628K2\_2





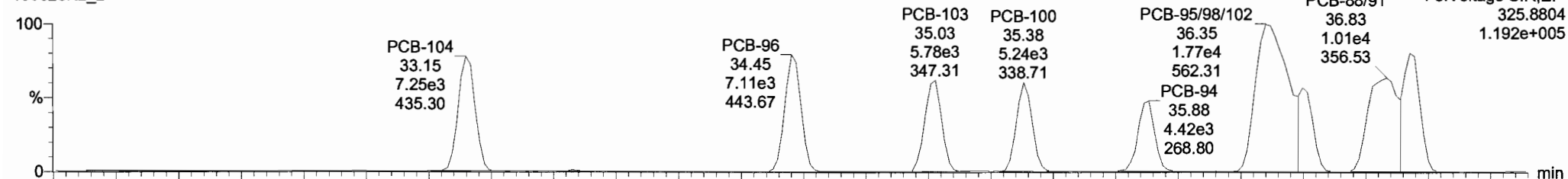
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Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

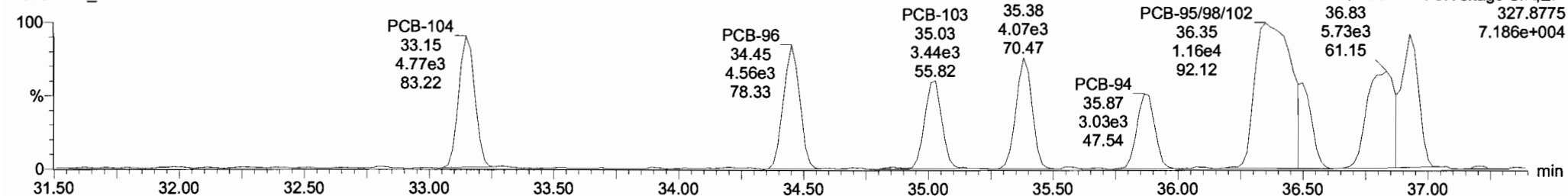
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**PCB-96**

190628K2\_2

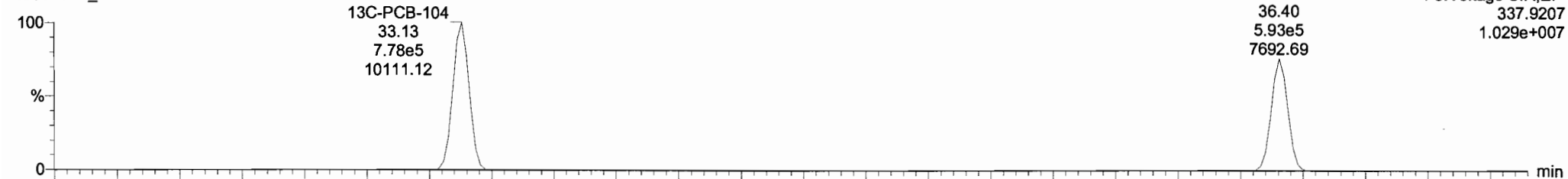


190628K2\_2

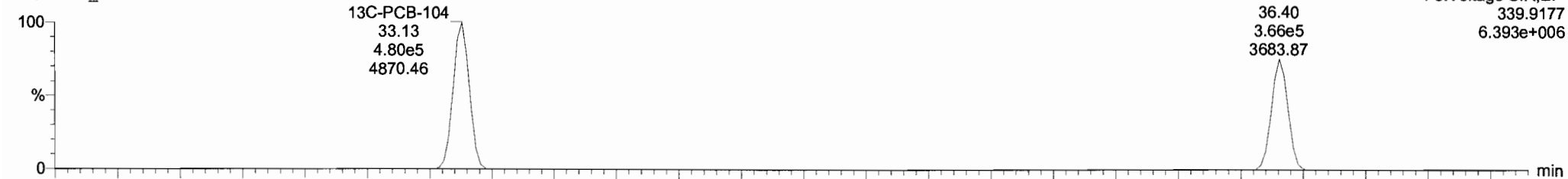


**13C-PCB-95**

190628K2\_2



190628K2\_2

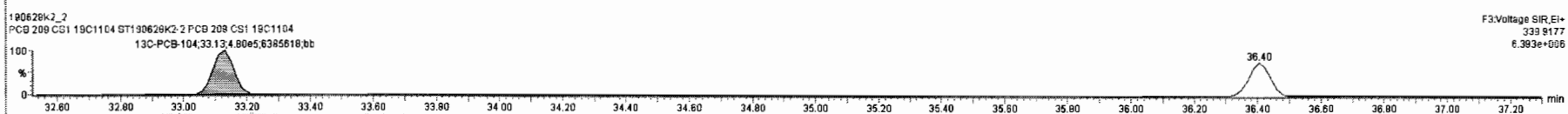
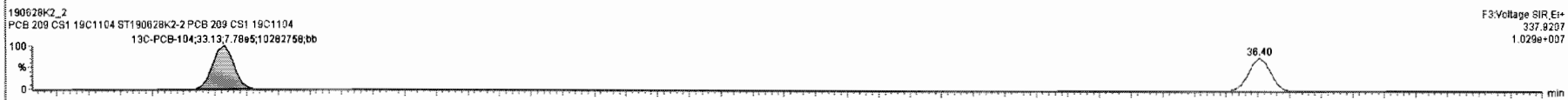
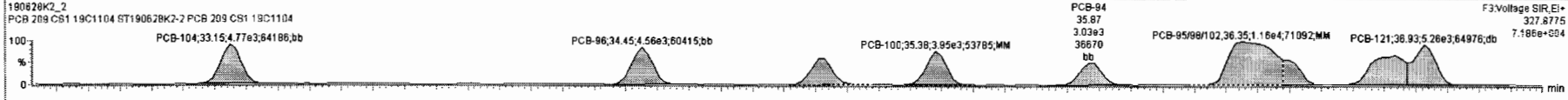
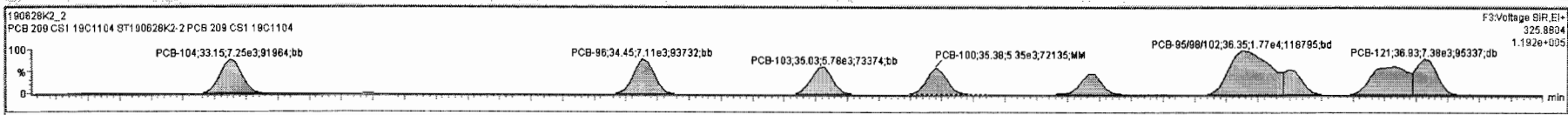




190628K2\_2-ST190628K2-2-PCB 209 CS1 19C1104 - PCB 209 CS1 19C1104

#	Name	Resp	RA	n/y	Ref	WAVG	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
217	13C-PCB-128	6.11e5	1.23	NO	1.0000	1.000	47.32	47.32	1.000	0.000	NO	100.0	100	0.0896	
218	13C-PCB-182	5.90e5	0.46	NO	1.0000	1.000	47.13	47.13	0.000	0.000	NO	100.0	100	0.0546	
219	13C-PCB-205	7.49e5	0.89	NO	1.0000	1.000	55.80	55.80	1.000	0.000	NO	100.0	100	0.0506	
220	13C-PCB-79	1.22e6	0.78	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	97.19	97.2	0.0754	
221	13C-PCB-178	5.37e5	0.46	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	100.5	101	0.0816	
222	13C-PCB-79	1.22e6	0.78	NO	1.0454	1.000	38.48	38.47	0.988	0.988	NO	97.92	97.9	0.0773	
223	13C-PCB-178	5.37e5	0.46	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	100.9	101	0.0825	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	2.888		0.0184	2.888
225	Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	11.23		0.183	11.23
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	7.746		0.0647	7.745
227	3rd Function Tri-PCBs				1.0566	1.000	0.00		0.000		NO	15.09		0.234	15.09
228	Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	40.04		1.06	40.03
229	3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	39.34		0.435	39.34

#	Name	Pred RT	RT	Int Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	84 PCB-104	33.15	33.15	7.249e3	4.773e3	1.580	1.52	NO	0.96000	0.96035
2	65 PCB-96	34.47	34.45	7.109e3	4.563e3	1.580	1.56	NO	0.93100	0.93133
3	66 PCB-103	35.03	35.03	5.782e3	3.424e3	1.580	1.89	NO	0.94400	0.94463
4	67 PCB-100	35.40	35.38	5.346e3	3.952e3	1.580	1.35	NO	0.95000	0.95000
5	68 PCB-94	35.89	35.88	4.421e3	3.029e3	1.580	1.46	NO	1.00500	1.0045
6	69 PCB-95/98/102	36.38	36.35	1.789e4	1.162e4	1.580	1.52	NO	3.0120	3.0118
7	70 PCB-93	36.51	36.50	4.312e3	2.512e3	1.580	1.72	NO	0.84700	0.84628

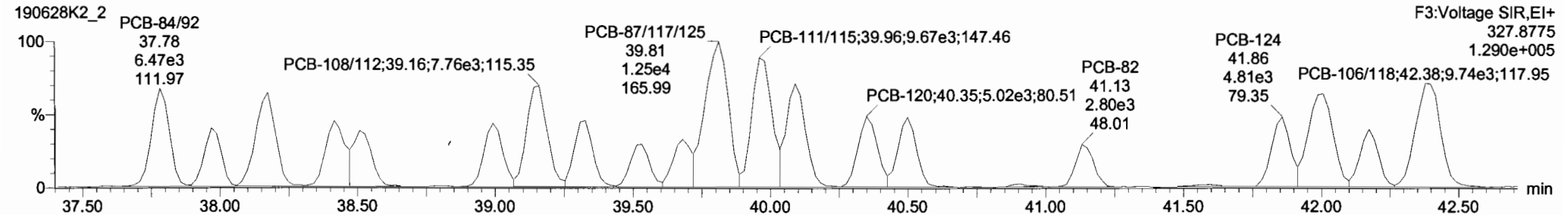
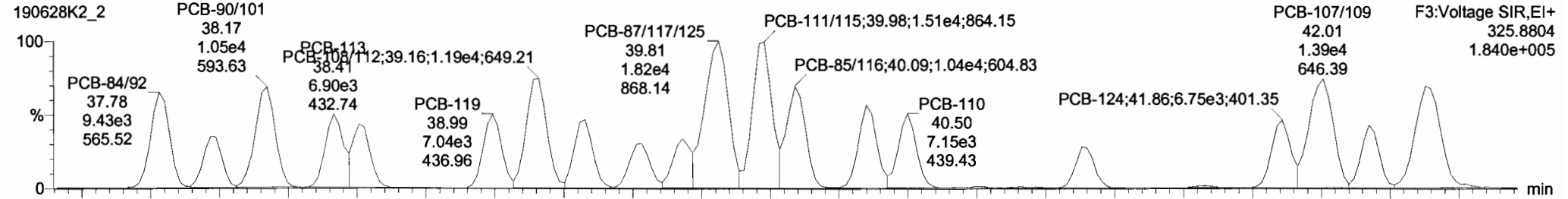


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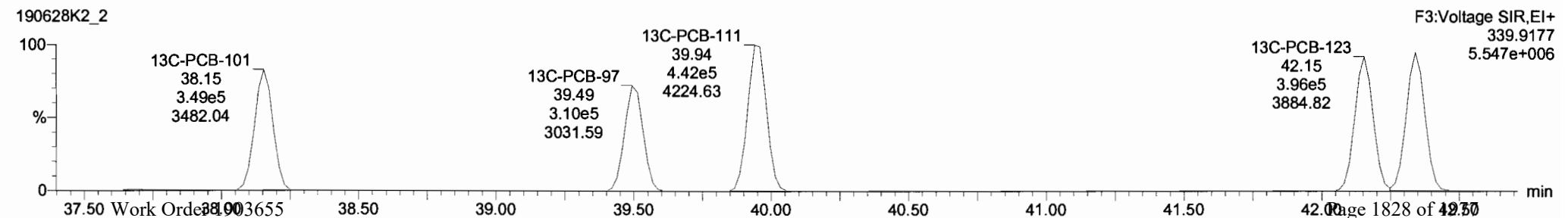
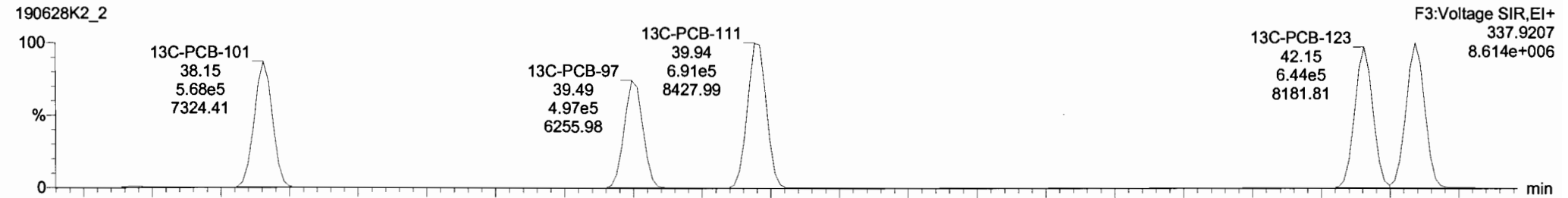
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 Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_2, Date: 28-Jun-2019, Time: 17:34:41, ID: ST190628K2-2 PCB 209 CS1 19C1104, Description: PCB 209 CS1 19C1104

**PCB-119**



**13C-PCB-111**



Dataset: Untitled

Last Altered: Saturday, June 29, 2019 12:04:52 Pacific Daylight Time

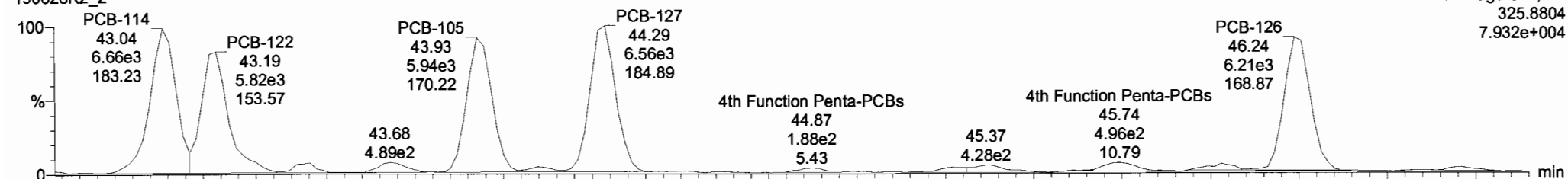
Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_2, Date: 28-Jun-2019, Time: 17:34:41, ID: ST190628K2-2 PCB 209 CS1 19C1104, Description: PCB 209 CS1 19C1104

**PCB-114**

190628K2\_2

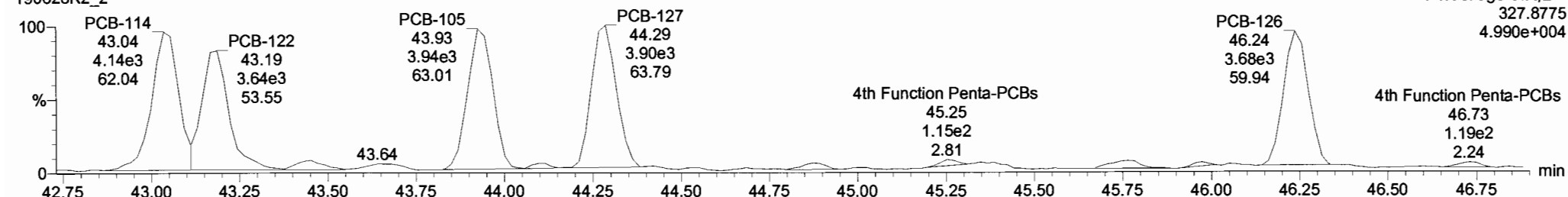
F4:Voltage SIR,EI+



325.8804  
7.932e+004

190628K2\_2

F4:Voltage SIR,EI+

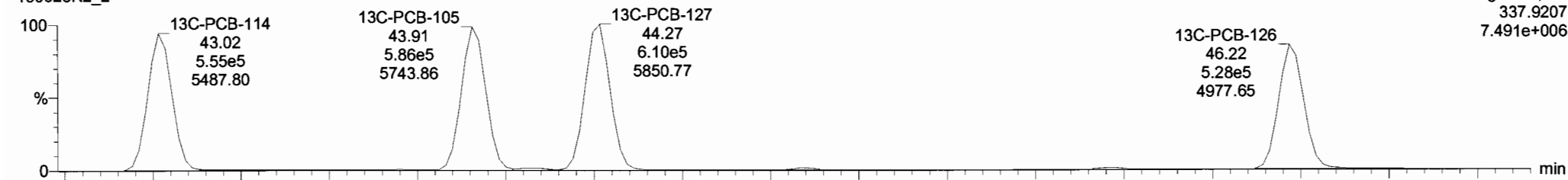


327.8775  
4.990e+004

**13C-PCB-114**

190628K2\_2

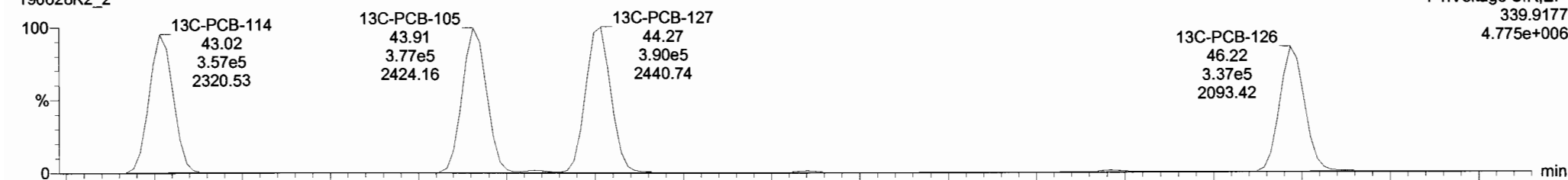
F4:Voltage SIR,EI+



337.9207  
7.491e+006

190628K2\_2

F4:Voltage SIR,EI+



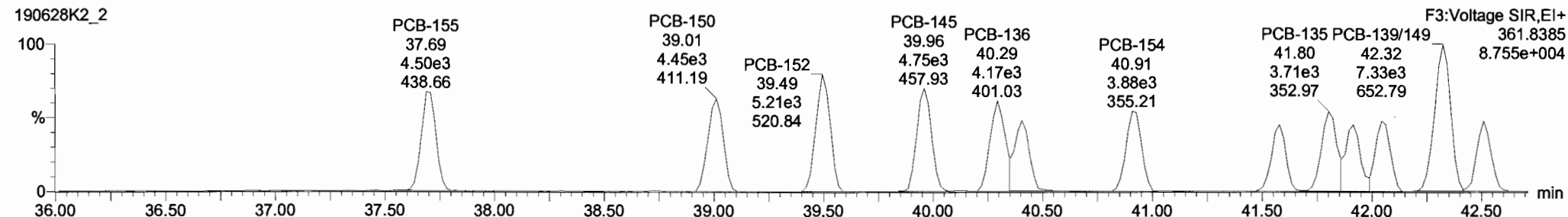
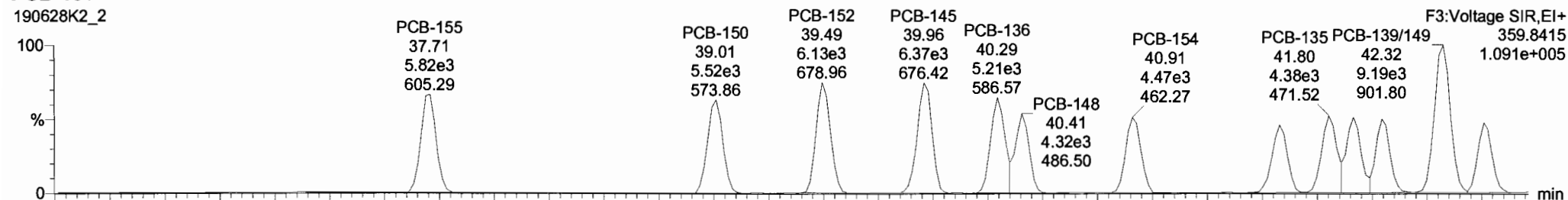
339.9177  
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Dataset: Untitled

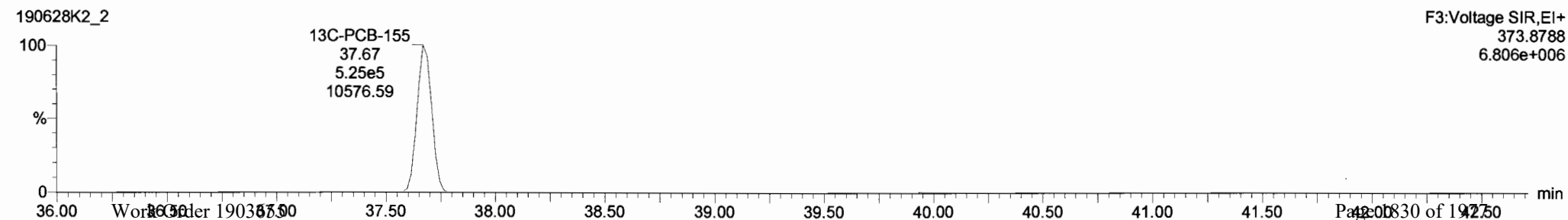
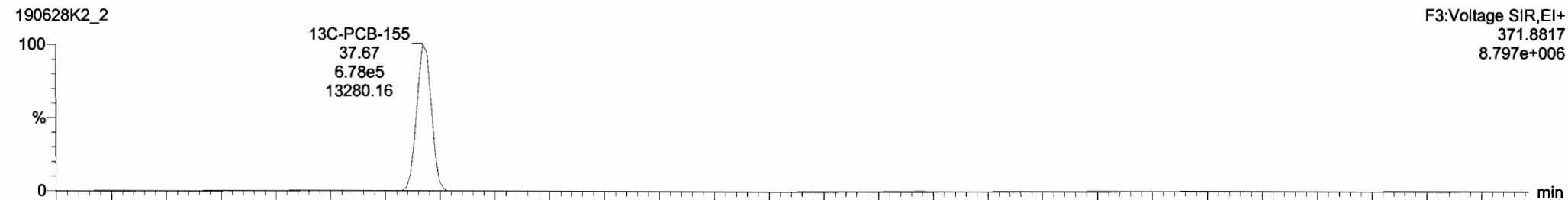
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 Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_2, Date: 28-Jun-2019, Time: 17:34:41, ID: ST190628K2-2 PCB 209 CS1 19C1104, Description: PCB 209 CS1 19C1104

**PCB-155**

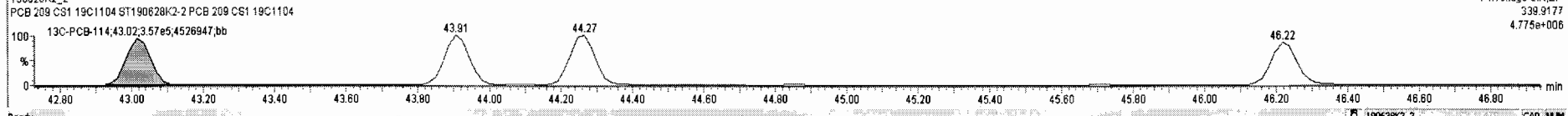
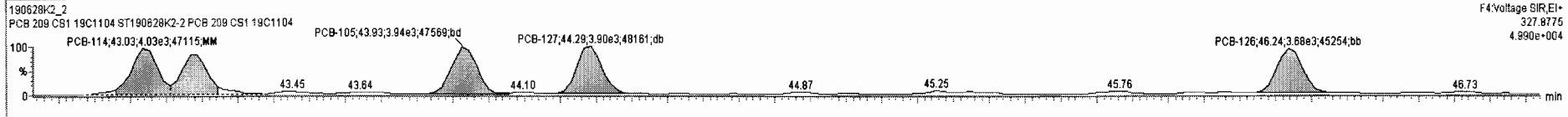
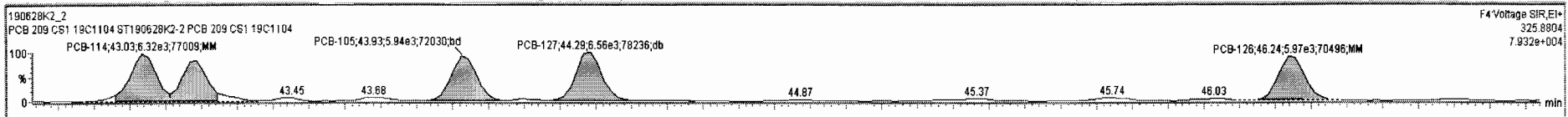


**13C-PCB-155**



#	Name	Resp	RA	Inj	RRF	wtAvt	Pred.RT	RT	Pred.R	RRT	RRT Fw	Conc.	%Rec	DL	EMPC
217	217 13C-PCB-126	6.11e5	1.23	NO	1.0000	1.000	47.32	47.32	1.000	0.000	NO	100.0	100	0.0096	
218	218 13C-PCB-162	5.90e5	0.46	NO	1.0000	1.000	47.13	47.13	0.000	0.000	NO	100.0	100	0.0546	
219	219 13C-PCB-205	7.49e5	0.89	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0506	
220	220 13C-PCB-79	1.22e6	0.78	NO	1.0320	1.000	38.47	38.47	1.029	1.029	NO	97.19	97.2	0.0754	
221	221 13C-PCB-178	5.37e5	0.46	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	100.5	101	0.0616	
222	222 13C-PCB-79	1.22e6	0.78	NO	1.0454	1.000	38.46	38.47	0.988	0.988	NO	97.92	97.9	0.0773	
223	223 13C-PCB-178	5.37e5	0.46	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	100.9	101	0.0625	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	2.888		0.0184	2.889
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	11.23		0.183	11.23
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	7.746		0.0647	7.745
227	227 3rd Function Tri-PCBs				1.0588	1.000	0.00		0.000		NO	15.08		0.234	15.08
228	228 Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	40.04		1.06	40.03
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	39.34		0.435	39.34

#	Name	Pred.RT	RT	Int Resp	m2 Resp	1° Ratio (Pred)	RA	Inj	EMPC	Conc.
1	83 PCB-114	43.04	43.03	6.317e3	4.033e3	1.560	1.57	NO	0.97700	0.97702
2	94 PCB-122	43.17	43.19	5.113e3	3.358e3	1.560	1.52	NO	0.95500	0.95505
3	95 PCB-105	43.92	43.93	5.940e3	3.943e3	1.550	1.51	NO	0.93200	0.93241
4	96 PCB-127	44.26	44.29	6.559e3	3.900e3	1.560	1.68	NO	0.94300	0.94322
5	97 PCB-126	46.24	46.24	5.965e3	3.685e3	1.560	1.62	NO	0.92100	0.92097

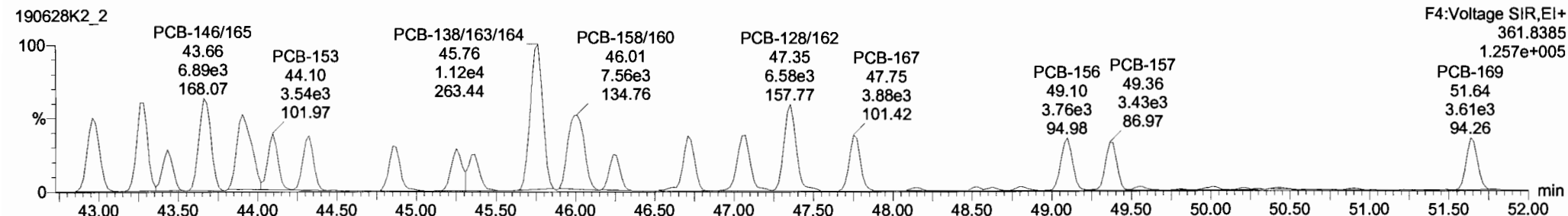
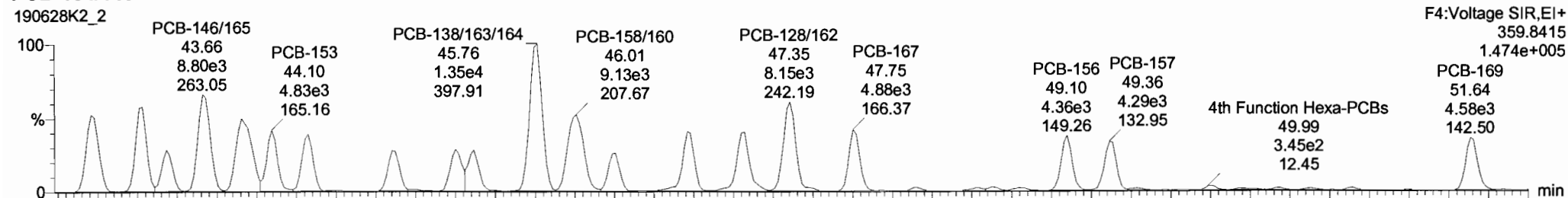


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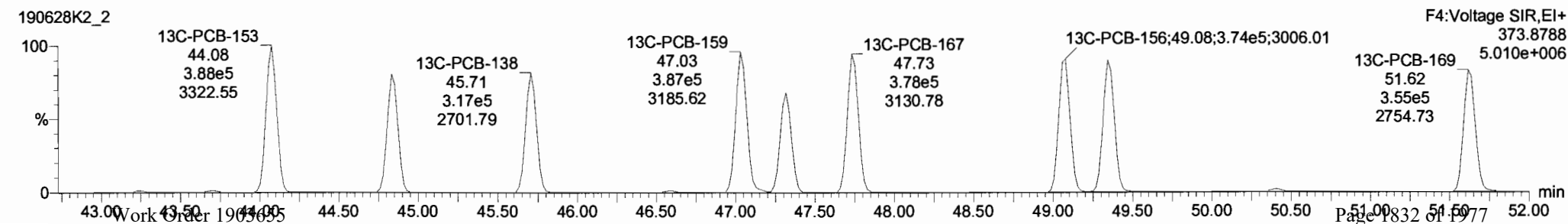
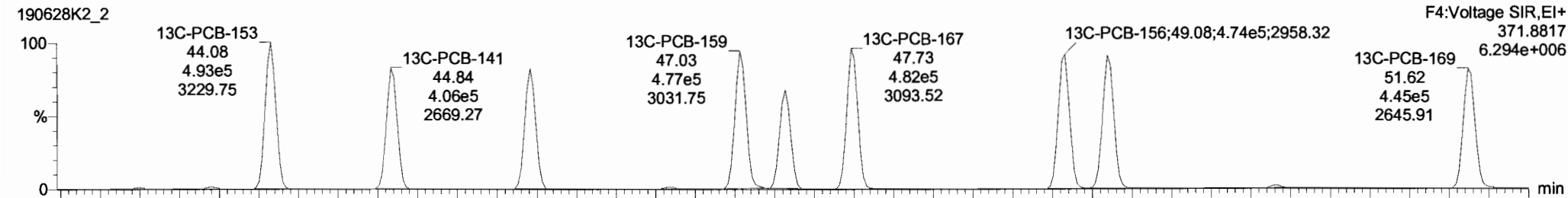
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Name: 190628K2\_2, Date: 28-Jun-2019, Time: 17:34:41, ID: ST190628K2-2 PCB 209 CS1 19C1104, Description: PCB 209 CS1 19C1104

**PCB-134/143**



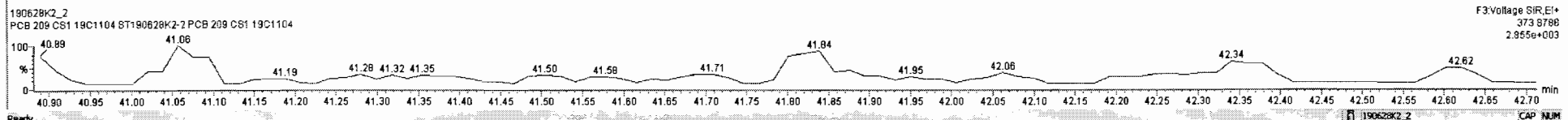
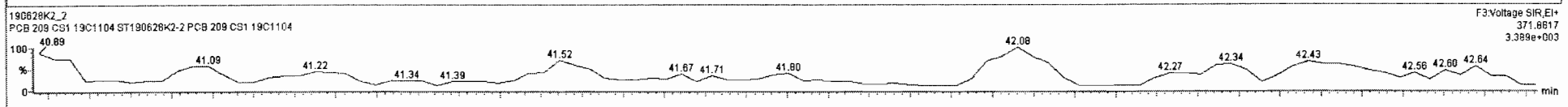
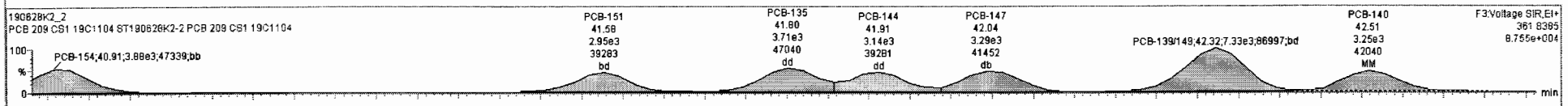
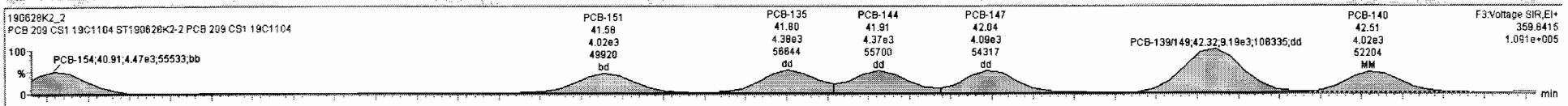
**13C-PCB-153**



190628K2\_2 - ST190628K2-2 PCB 209 CS1 19C1104 - PCB 209 CS1 19C1104

#	Name	Resp	RA	n/y	RRF	WtVcl	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	13.13		0.0560	13.43
232	232 4th Function Hexa-PCBs				0.9712	1.000	0.00		0.000		NO	26.41		0.343	26.41
233	233 Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	23.33		0.252	23.33
234	234 4th Function Octa-PCBs				0.8663	1.000	0.00		0.000		NO	8.388		0.0624	8.388
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	2.798		0.0428	2.798
236	236 Total Nona-PCBs				0.9446	1.000	0.00		0.000		NO	2.913		0.0171	2.913
237	237 Deca-CB				0.9426	1.000	0.00		0.000		NO	1.017		0.00426	1.017
238	238 Total PCBs														
239	239 Total Mono-Isotopes														
240	240 Total Di-Isotopes														
241	241 2nd Function Tri-Isotopes														
242	242 3rd Function Tri-Isotopes														
243	243 Tetra-Isotopes				0.9849	1.000	0.00		1.000		NO	895.3		0.715	0.0000

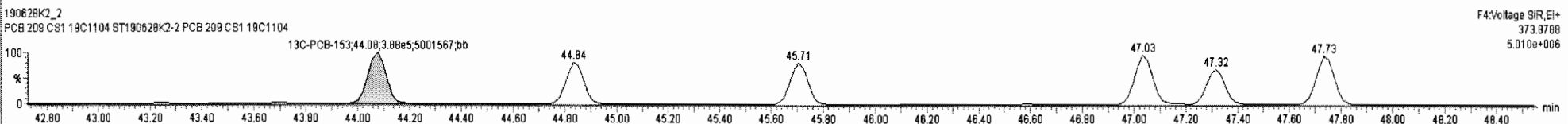
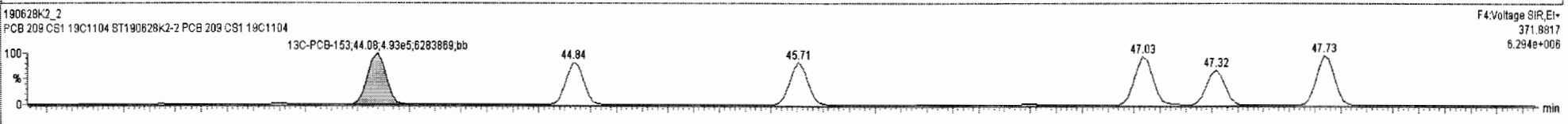
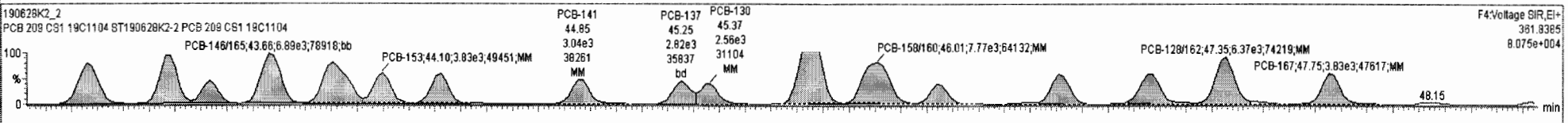
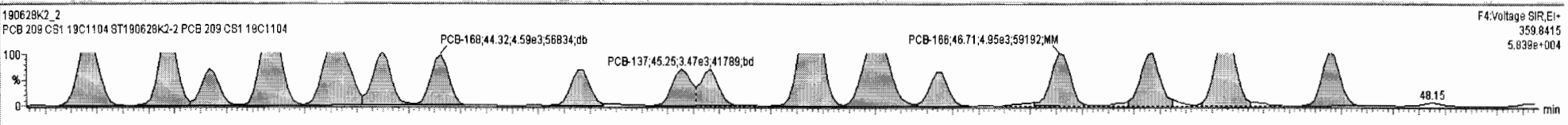
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	98 PCB-155	37.68	37.71	5.821e3	4.501e3	1.240	1.29	NO	0.98200	0.98172
2	99 PCB-150	38.99	39.01	5.516e3	4.445e3	1.240	1.24	NO	0.94000	0.93990
3	100 PCB-152	39.48	39.49	6.130e3	5.211e3	1.240	1.18	NO	0.93800	0.93826
4	101 PCB-145	39.85	39.86	6.375e3	4.752e3	1.240	1.34	NO	0.92500	0.92490
5	102 PCB-136	40.28	40.29	5.210e3	4.167e3	1.240	1.25	NO	0.92400	0.92407
6	103 PCB-148	40.38	40.41	4.316e3	3.323e3	1.240	1.30	NO	0.91600	0.91559
7	104 PCB-154	40.90	40.91	4.466e3	3.880e3	1.240	1.15	NO	0.95900	0.95798





#	Name	Resp	RA	n/y	RFF	wt/Vol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec.	DL	EMPC
231	3rd Function Hexa-PCBs				0.7739	1.000	0.00	0.000	0.000		NO	13.13		0.0560	13.13
232	4th Function Hexa-PCBs				0.9719	1.000	0.00	0.000	0.000		NO	26.50		0.343	26.50
233	Total Hepta-PCBs				1.2636	1.000	0.00	0.000	0.000		NO	23.33		0.252	23.33
234	4th Function Octa-PCBs				0.8863	1.000	0.00	0.000	0.000		NO	8.388		0.0624	8.388
235	5th Function Octa-PCBs				1.1967	1.000	0.00	0.000	0.000		NO	2.796		0.0428	2.796
236	Total Nona-PCBs				0.9446	1.000	0.00	0.000	0.000		NO	2.913		0.0171	2.913
237	Deca-CB				0.9426	1.000	0.00	0.000	0.000		NO	1.017		0.00426	1.017
238	Total PCBs														
239	Total Mono-Isotopes														
240	Total Di-Isotopes														
241	2nd Function Tri-Isotopes														
242	3rd Function Tri-Isotopes														
243	Tetra-Isotopes				0.9849	1.000	0.00	1.000	0.000		NO	895.3		0.715	0.0000

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1*Ratio (Pred)	RA	n/y	EMPC	Conc.
1	111 PCB-134/143	42.96	42.96	7.044e3	5.544e3	1.240	1.25	NO	1.9635	1.9635
2	112 PCB-131/133	43.26	43.26	6.844e3	6.059e3	1.240	1.13	NO	1.8532	1.8532
3	113 PCB-142	43.45	43.43	3.266e3	2.618e3	1.240	1.25	NO	0.94301	0.94301
4	114 PCB-146/165	43.66	43.66	8.798e3	6.891e3	1.240	1.28	NO	1.8557	1.8557
5	115 PCB-132/151	43.91	43.91	8.409e3	7.294e3	1.240	1.15	NO	1.8289	1.8289
6	116 PCB-153	44.09	44.10	4.830e3	3.839e3	1.240	1.26	NO	0.97162	0.97162
7	117 PCB-168	44.30	44.32	4.588e3	3.839e3	1.240	1.19	NO	0.93794	0.93794



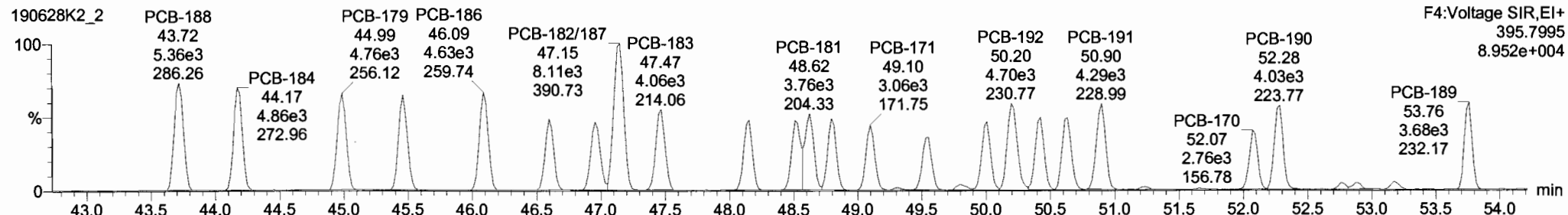
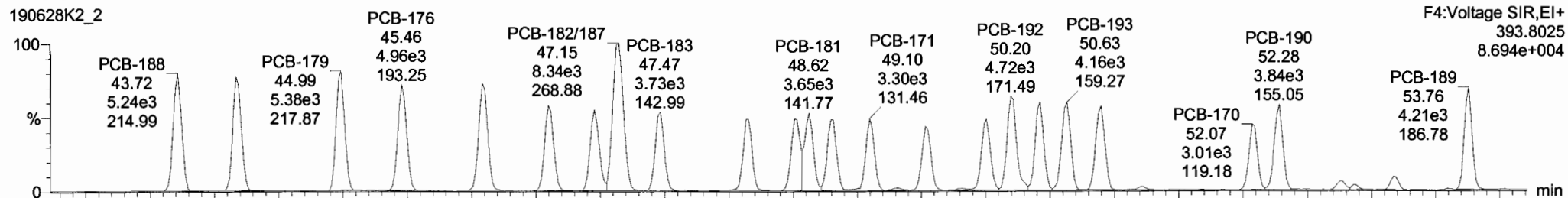


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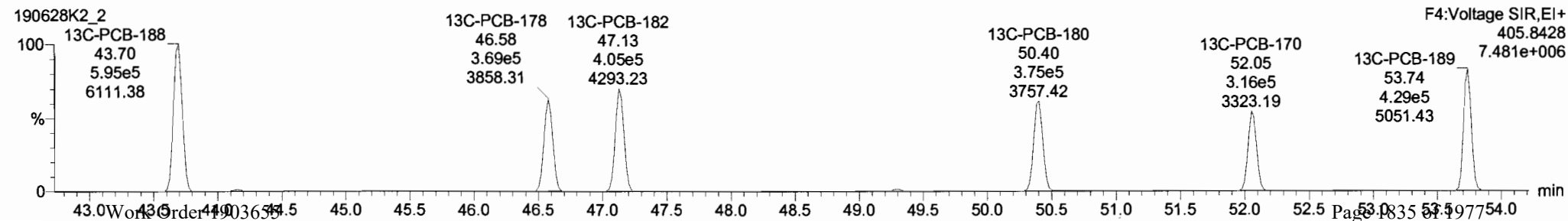
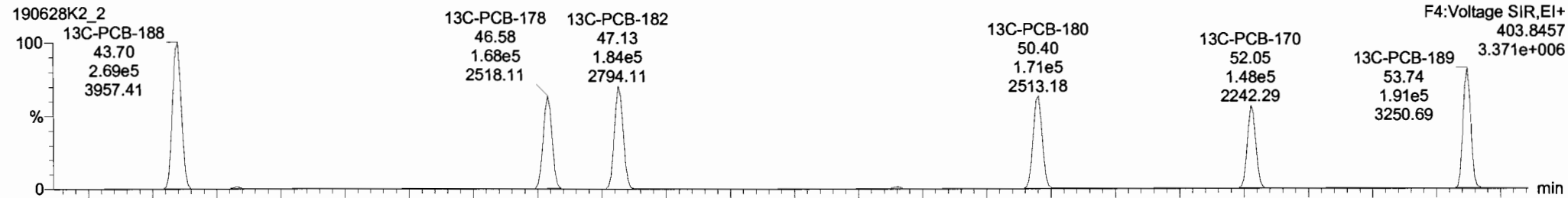
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Name: 190628K2\_2, Date: 28-Jun-2019, Time: 17:34:41, ID: ST190628K2-2 PCB 209 CS1 19C1104, Description: PCB 209 CS1 19C1104

PCB-188



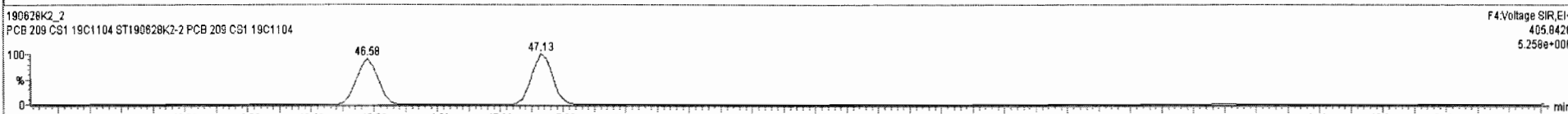
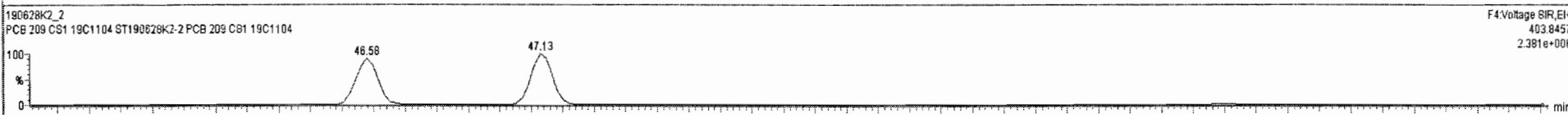
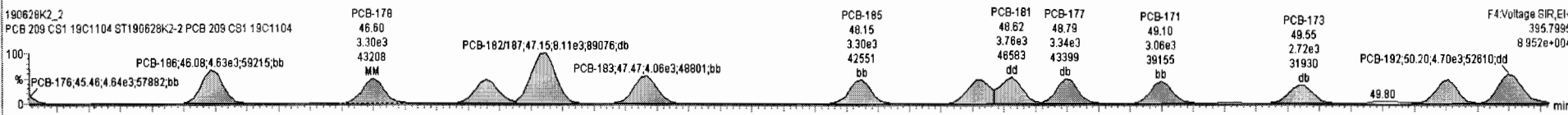
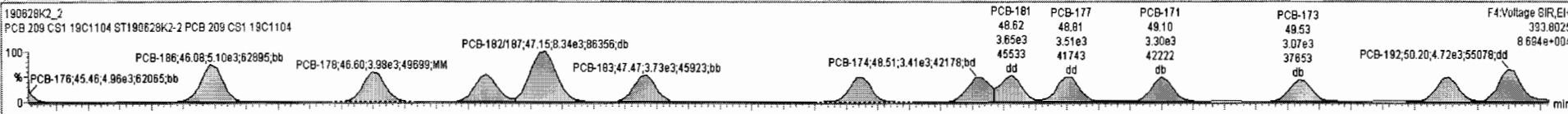
13C-PCB-188



190628K2\_2 - ST190628K2-2 PCB 209 CS1 19C1104 - PCB 209 CS1 19C1104

#	Name	Resp	RA	nLy	RFF	wt/Vol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
231	3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	13.13		0.0560	13.13
232	4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	26.50		0.343	26.50
233	Total Hexa-PCBs				1.2636	1.000	0.00		0.000		NO	23.33		0.252	23.33
234	4th Function Octa-PCBs				0.8963	1.000	0.00		0.000		NO	8.368		0.0624	8.368
235	5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	2.798		0.0428	2.798
236	Total Nona-PCBs				0.9446	1.000	0.00		0.000		NO	2.913		0.0171	2.913
237	Deca-CB				0.9426	1.000	0.00		0.000		NO	1.017		0.00426	1.017
238	Total PCBs														
239	Total Mono-Isotopes														
240	Total Di-Isotopes														
241	2nd Function Tri-Isotopes														
242	3rd Function Tri-Isotopes														
243	Tetra-Isotopes				0.9649	1.000	0.00		1.000		NO	895.3		0.715	0.0000

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nLy	EMPC	Conc.
1	131 PCB-188	43.74	43.72	5.243e3	5.363e3	1.050	0.98	NO	1.0294	1.0294
2	132 PCB-184	44.19	44.17	5.179e3	4.861e3	1.050	1.07	NO	0.99657	0.99657
3	133 PCB-179	44.99	44.99	5.377e3	4.763e3	1.050	1.13	NO	0.99846	0.99846
4	134 PCB-176	45.47	45.46	4.959e3	4.636e3	1.050	1.07	NO	0.95841	0.95841
5	135 PCB-186	46.09	46.08	5.095e3	4.633e3	1.050	1.10	NO	0.92501	0.92501
6	136 PCB-178	46.61	46.60	3.976e3	3.298e3	1.050	1.21	NO	1.0144	1.0144
7	137 PCB-175	48.97	48.96	3.898e3	3.555e3	1.050	1.10	NO	1.0171	1.0171



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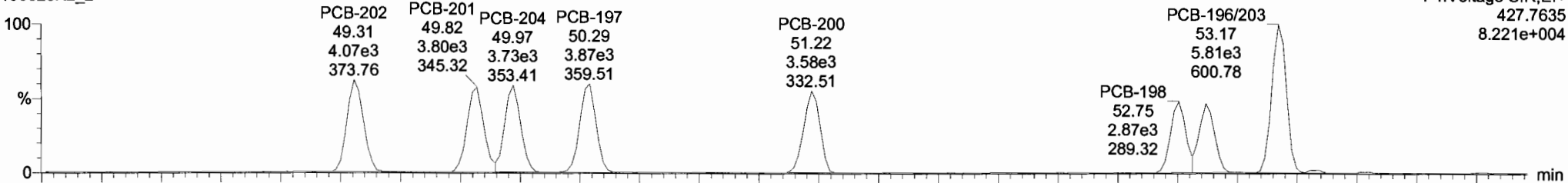
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**PCB-202**

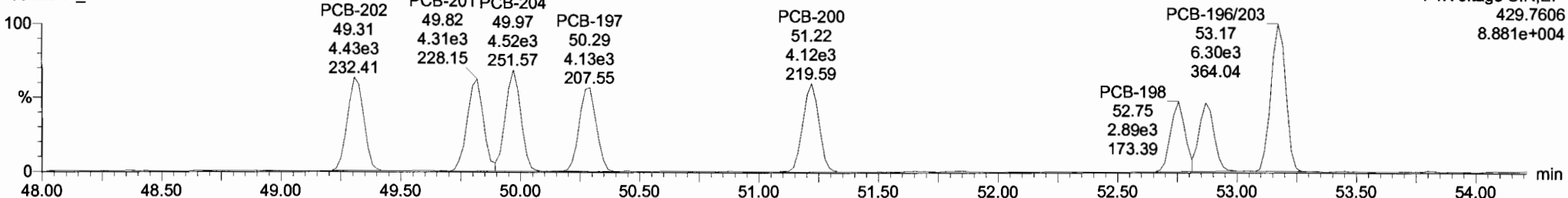
190628K2\_2

F4:Voltage SIR,EI+  
427.7635  
8.221e+004



190628K2\_2

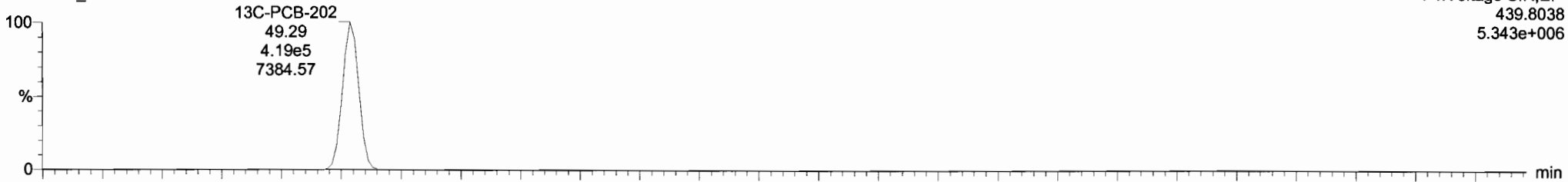
F4:Voltage SIR,EI+  
429.7606  
8.881e+004



**13C-PCB-202**

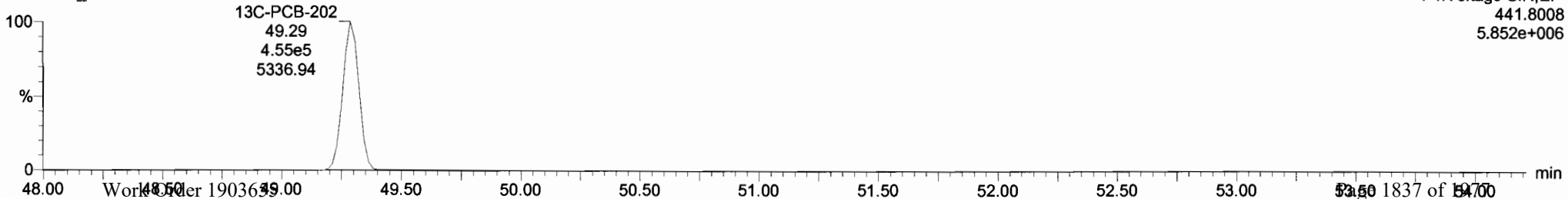
190628K2\_2

F4:Voltage SIR,EI+  
439.8038  
5.343e+006



190628K2\_2

F4:Voltage SIR,EI+  
441.8008  
5.852e+006

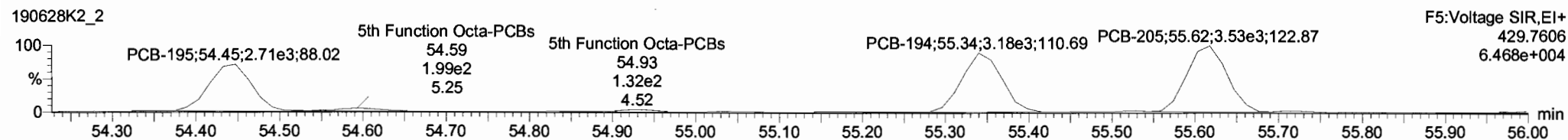
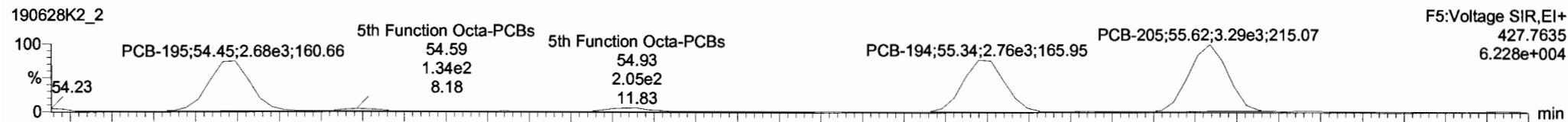


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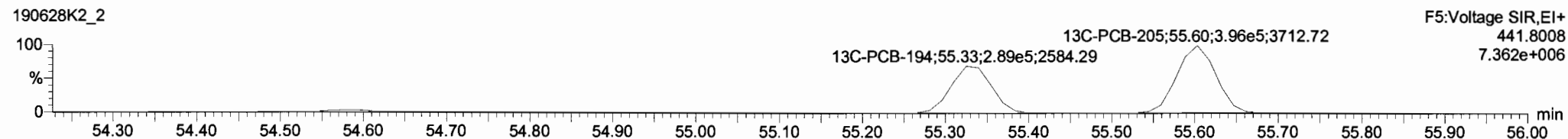
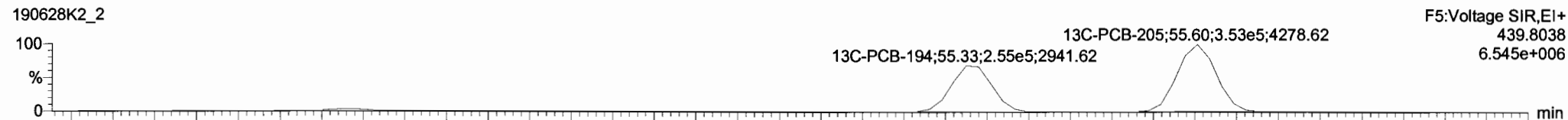
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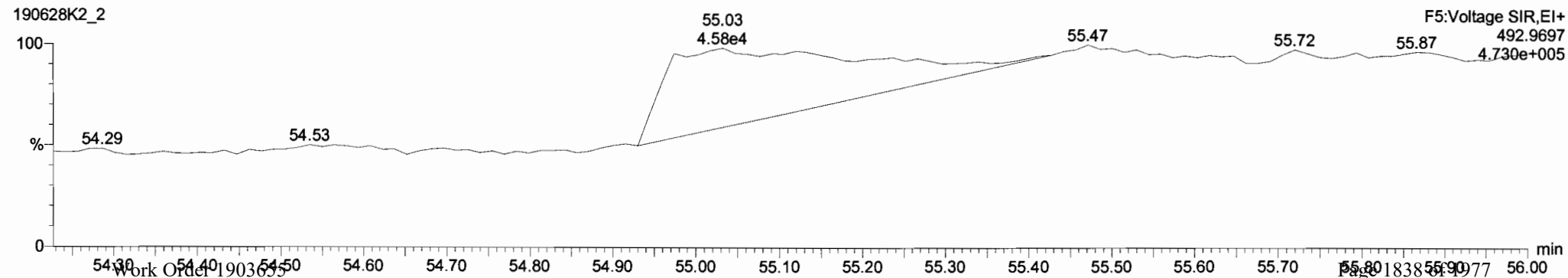
**PCB-195**



**13C-PCB-194**



**PFK5**

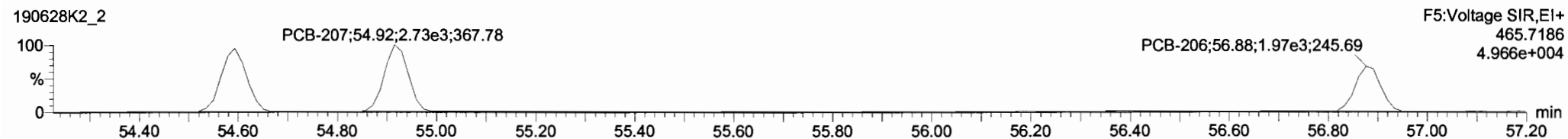
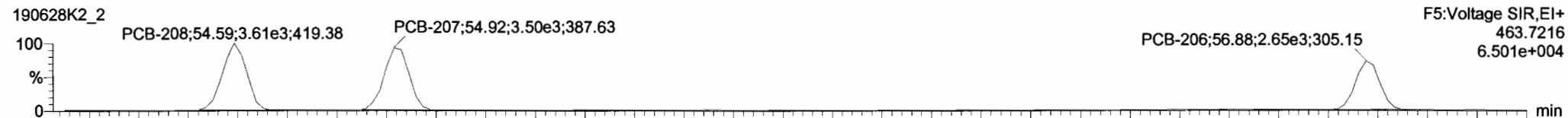


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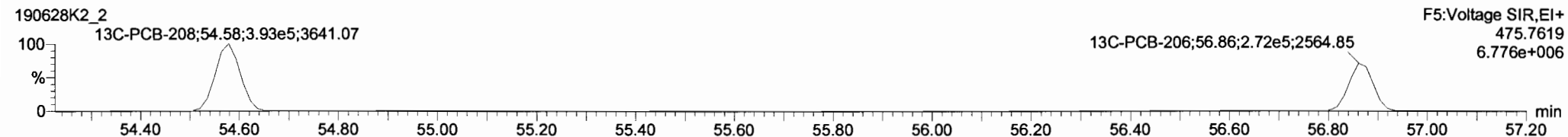
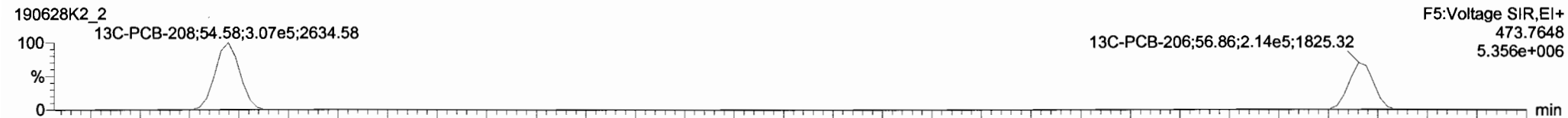
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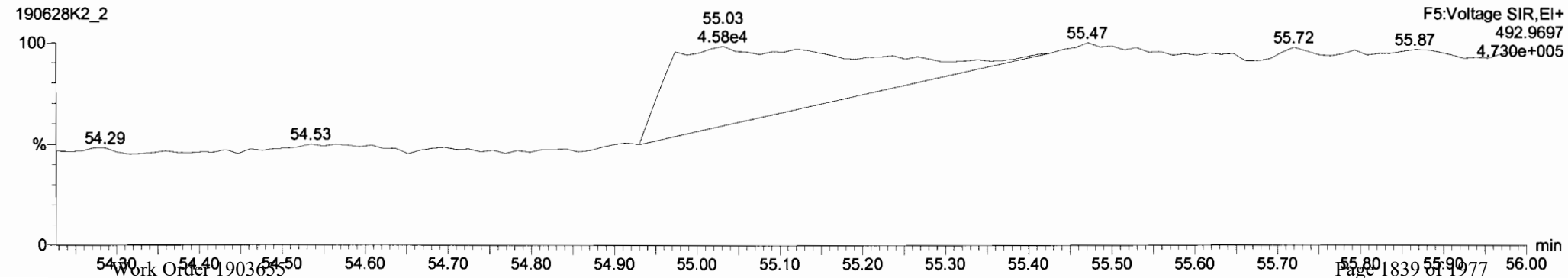
**PCB-208**



**13C-PCB-208**



**PFK5**



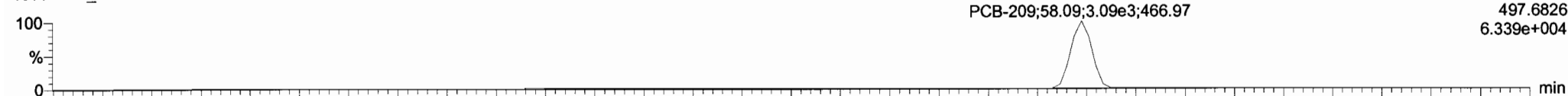
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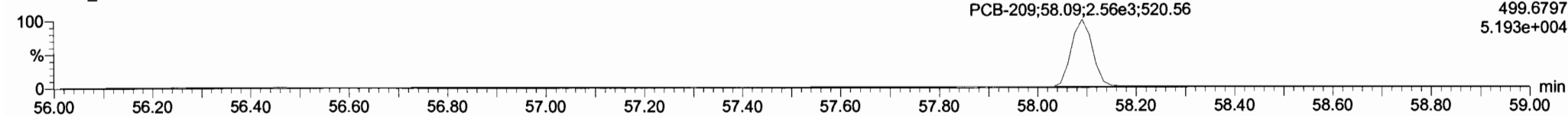
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**PCB-209**

190628K2\_2

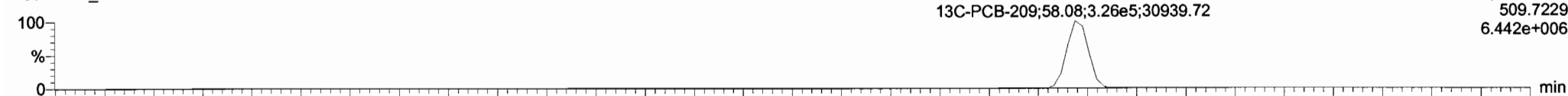


190628K2\_2

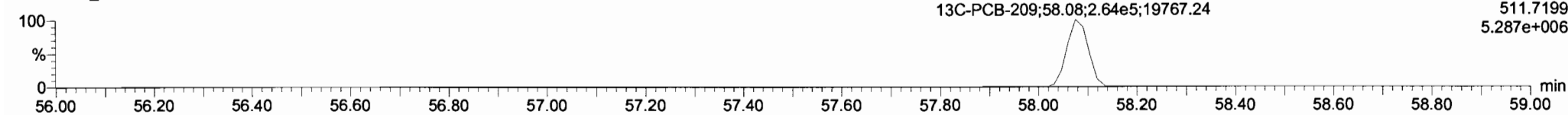


**13C-PCB-209**

190628K2\_2

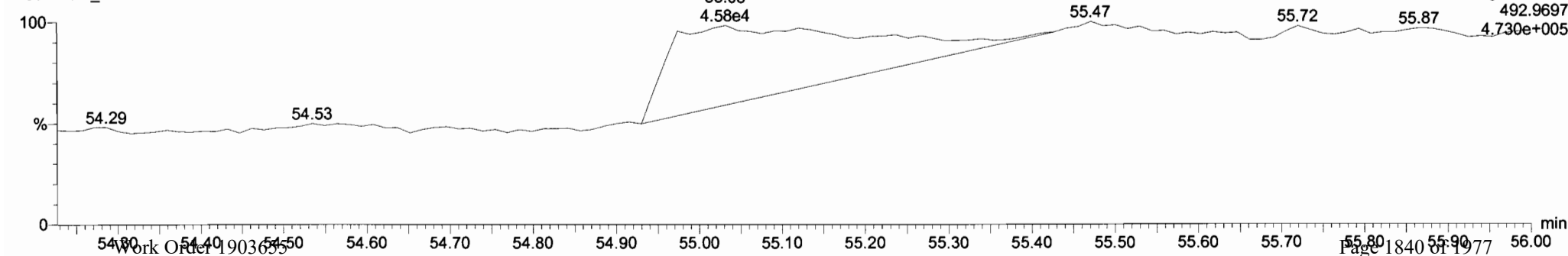


190628K2\_2



**PFK5**

190628K2\_2

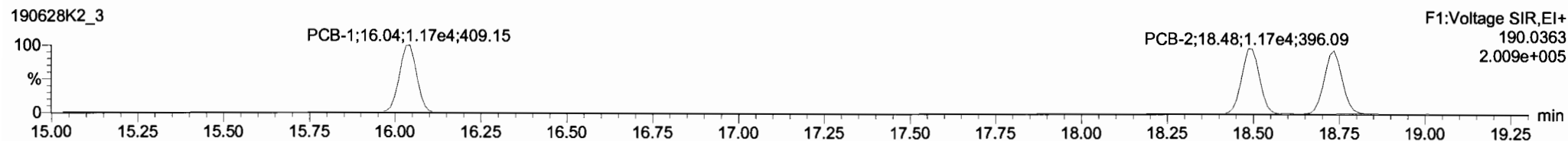
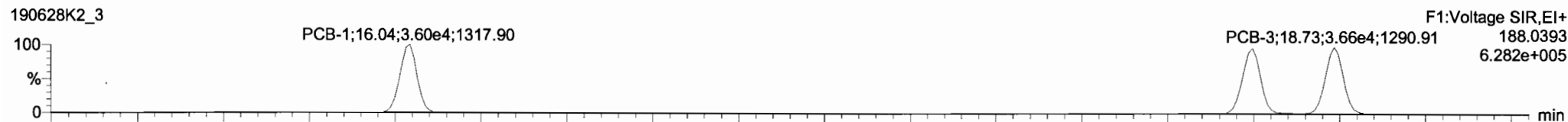


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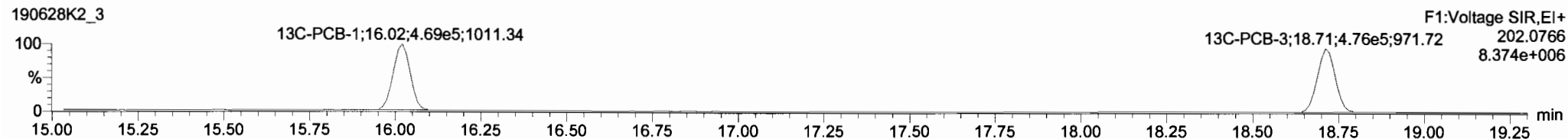
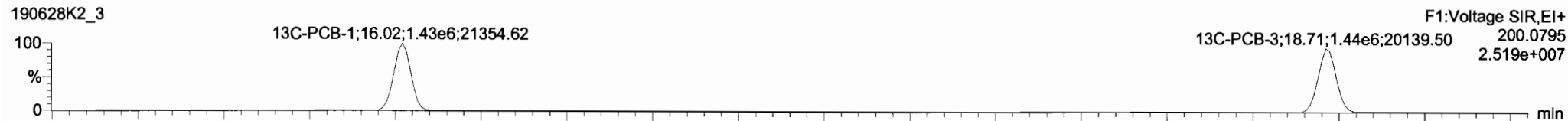
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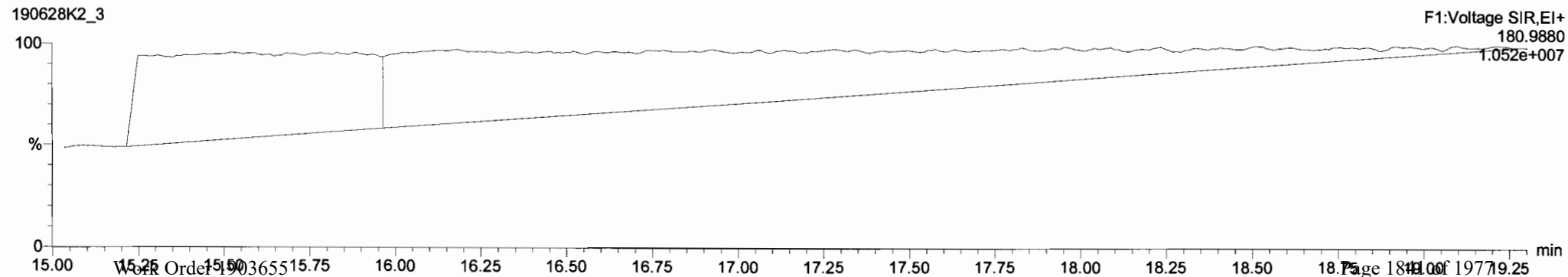
**PCB-1**



**13C-PCB-1**



**PFK1**

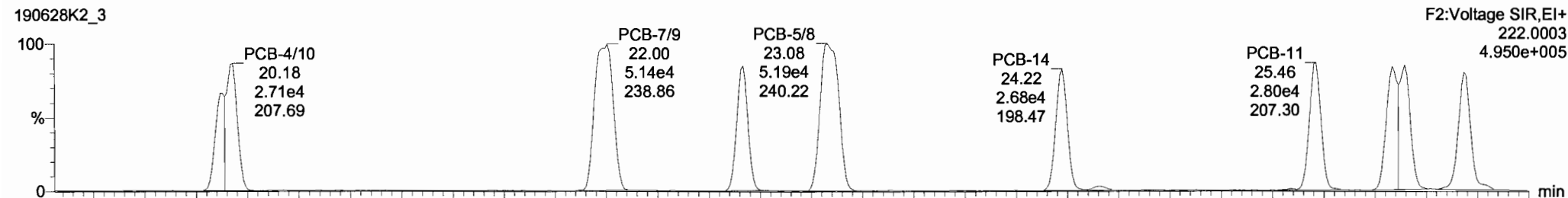


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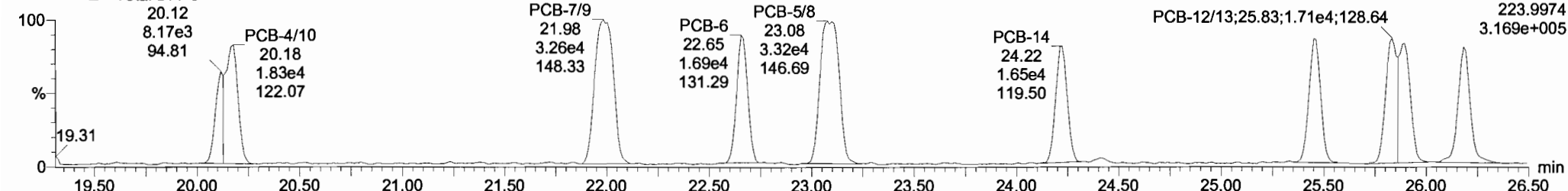
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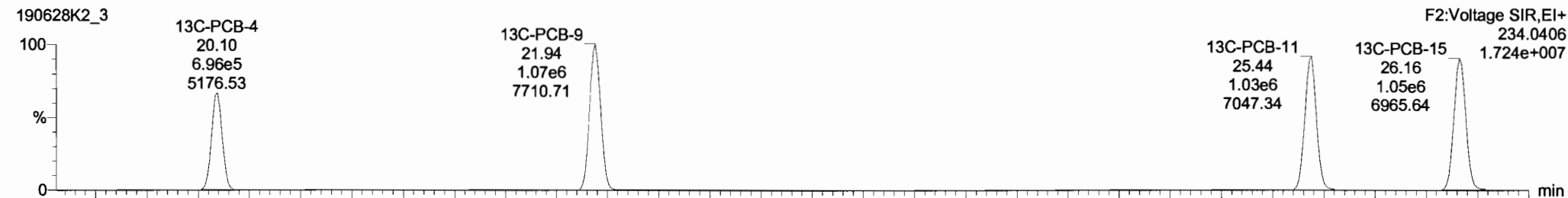
**PCB-4/10**



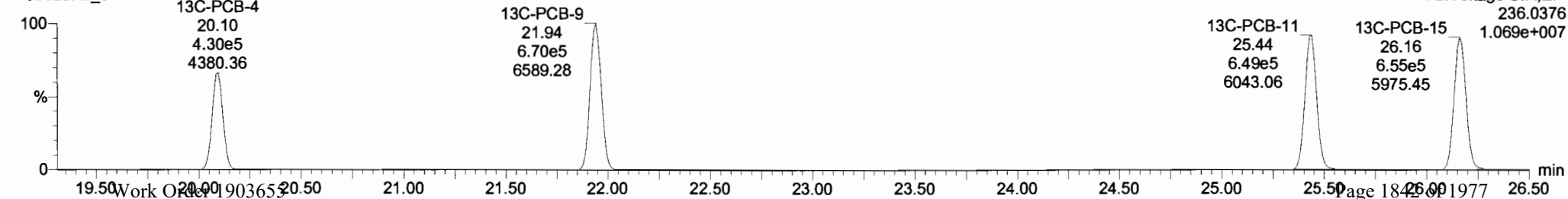
**190628K2\_3 Total Di-PCBs**



**13C-PCB-4**



**190628K2\_3**

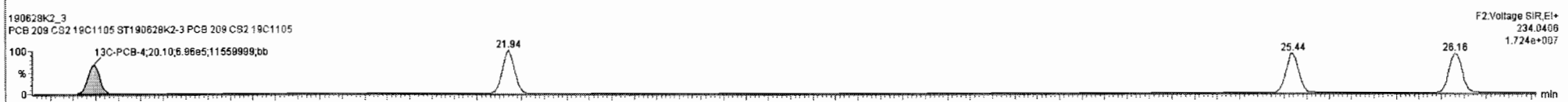
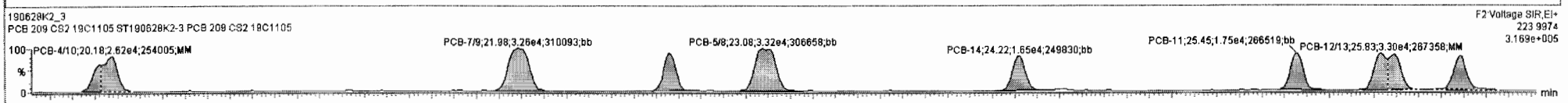
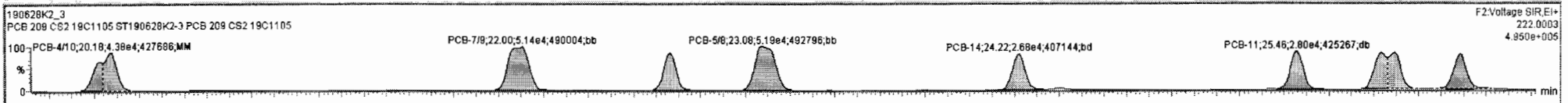




190628k2\_3 - ST190628K2-3 PCB 209 CS2 19C1105 - PCB 209 CS2 19C1105

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
218	13C-PCB-182	5.65e5	0.44	NO	1.0000	1.000	47.13	47.13	0.000	0.000	NO	100.0	100	0.0608	
219	13C-PCB-205	7.62e5	0.90	NO	1.0000	1.000	55.80	55.80	1.000	0.000	NO	100.0	100	0.0533	
220	13C-PCB-79	1.19e6	0.77	NO	1.0320	1.000	38.47	38.49	1.029	1.030	NO	98.88	98.9	0.0785	
221	13C-PCB-178	5.26e5	0.45	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	102.4	102	0.0688	
222	13C-PCB-79	1.19e6	0.78	NO	1.0454	1.000	38.46	38.49	0.968	0.968	NO	99.25	99.2	0.0831	
223	13C-PCB-178	5.26e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	100.9	101	0.0689	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	7.411		0.0178	7.410
225	Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	29.32		0.247	29.32
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	19.53		0.0708	19.53
227	3rd Function Tri-PCBs				1.0586	1.000	0.00		0.000		NO	38.35		0.282	38.35
228	Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	103.0		0.434	103.0
229	3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	100.0		0.342	100.0
230	4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	12.15		0.101	12.15

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	4 PCB-4/10	20.18	20.18	4.382e4	2.618e4	1.560	1.67	NO	4.8770	4.8768
2	5 PCB-7/9	22.00	22.00	5.135e4	3.258e4	1.560	1.56	NO	4.9379	4.9377
3	6 PCB-6	22.65	22.67	2.821e4	1.894e4	1.560	1.55	NO	2.4364	2.4363
4	7 PCB-5/8	23.07	23.08	5.185e4	3.316e4	1.560	1.56	NO	4.8284	4.8280
5	8 PCB-14	24.23	24.22	2.682e4	1.645e4	1.560	1.63	NO	2.4951	2.4949
6	9 PCB-11	25.46	25.46	2.800e4	1.751e4	1.560	1.60	NO	2.4727	2.4724
7	10 PCB-12/13	25.83	25.89	5.062e4	3.298e4	1.560	1.54	NO	4.8117	4.8118



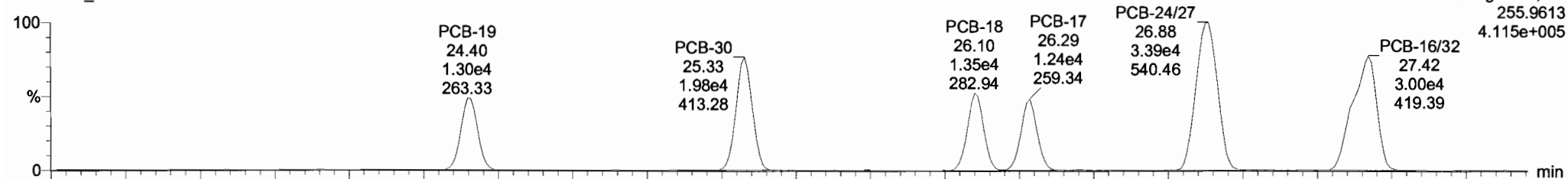
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Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

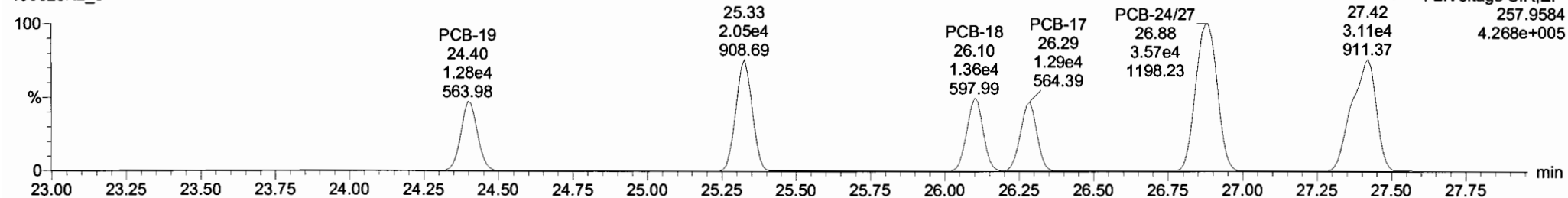
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**PCB-19**

190628K2\_3

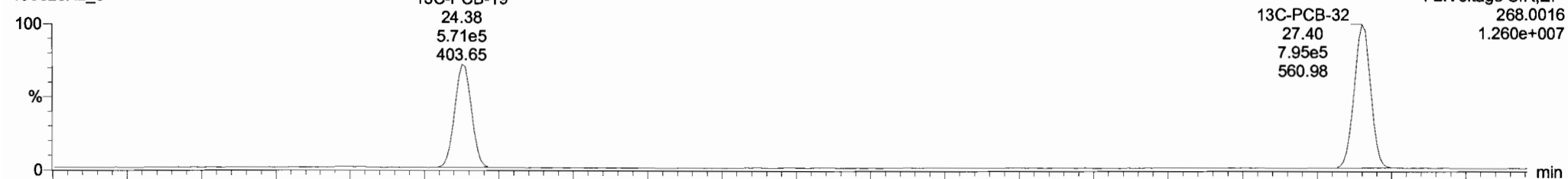


190628K2\_3

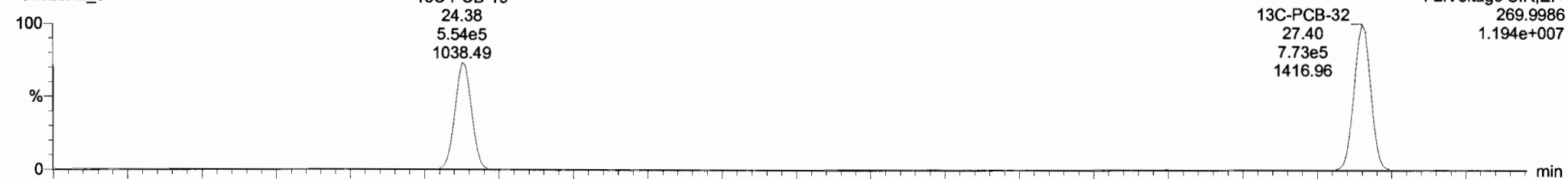


**13C-PCB-19**

190628K2\_3



190628K2\_3

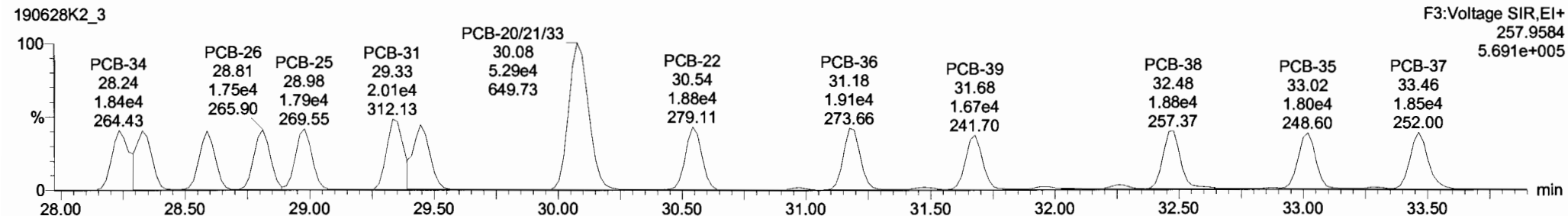
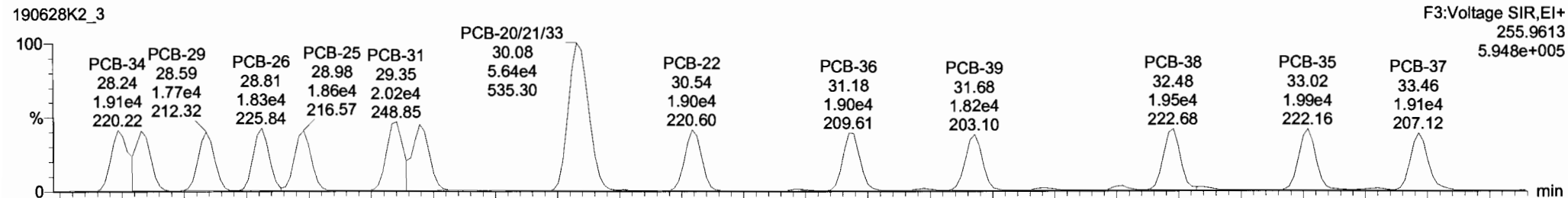


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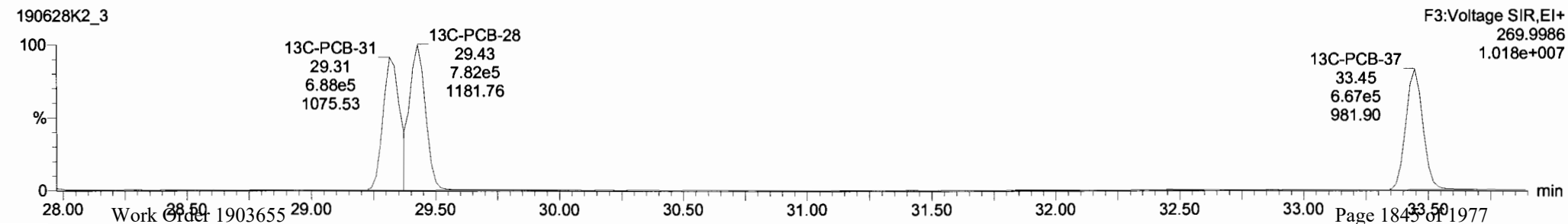
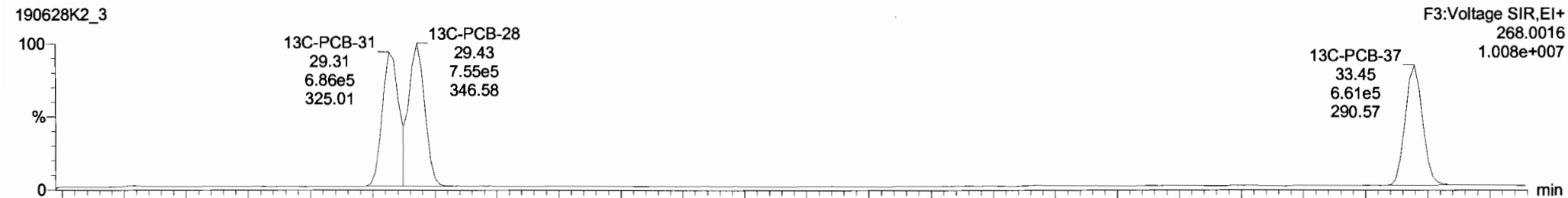
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Name: 190628K2\_3, Date: 28-Jun-2019, Time: 18:36:12, ID: ST190628K2-3 PCB 209 CS2 19C1105, Description: PCB 209 CS2 19C1105

**PCB-34**



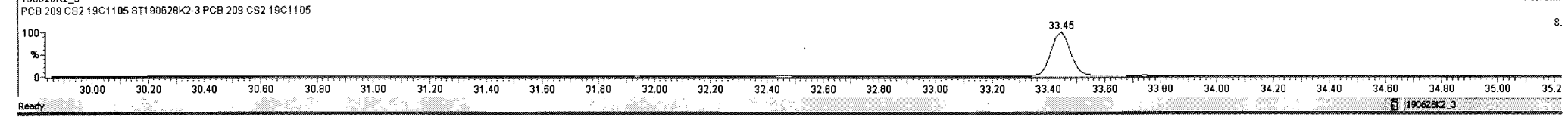
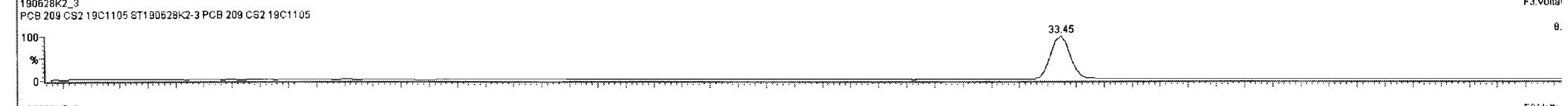
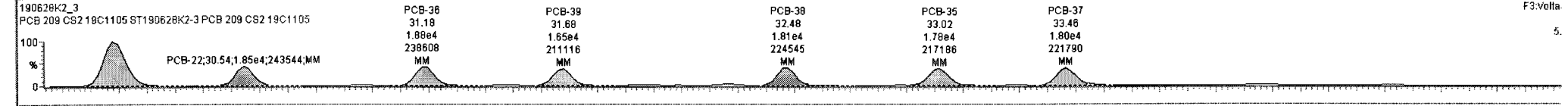
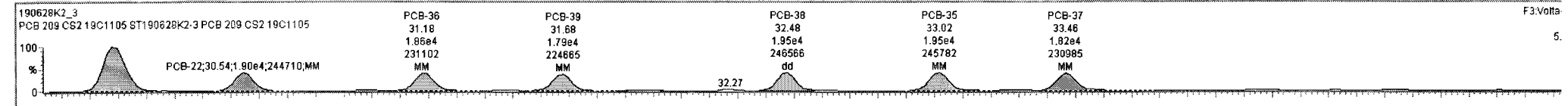
**13C-PCB-28**



190628K2\_3 - ST190628K2-3.PCB 209 CS2 19C1105 - PCB 209 CS2 19C1105

#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
218	13C-PCB-182	5.65e5	0.45	NO	1.0000	1.000	47.13	47.13	0.000	0.000	NO	100.0	100	0.0508	
219	13C-PCB-205	7.62e5	0.90	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0533	
220	13C-PCB-79	1.19e6	0.77	NO	1.0320	1.000	38.47	38.49	1.029	1.030	NO	98.88	98.9	0.0785	
221	13C-PCB-178	5.26e5	0.45	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	102.4	102	0.0668	
222	13C-PCB-79	1.18e6	0.78	NO	1.0454	1.000	38.46	38.49	0.968	0.969	NO	99.25	99.2	0.0831	
223	13C-PCB-178	5.26e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	100.9	101	0.0669	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	7.411		0.0178	7.411
225	Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	29.32		0.247	29.32
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	19.53		0.0708	19.53
227	3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	38.30		0.282	38.30
228	Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	103.0		0.434	103.0
229	3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	100.0		0.342	100.0
230	4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	12.15		0.101	12.15

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
8	25 PCB-20/21/33	30.07	30.08	5.635e4	5.262e4	1.040	1.07	NO	7.0657	7.0657
9	26 PCB-22	30.53	30.54	1.896e4	1.853e4	1.040	1.02	NO	2.3617	2.3617
10	27 PCB-36	31.19	31.18	1.857e4	1.878e4	1.040	0.99	NO	2.3899	2.3899
11	28 PCB-39	31.66	31.68	1.786e4	1.650e4	1.040	1.08	NO	2.3965	2.3965
12	29 PCB-38	32.48	32.48	1.954e4	1.806e4	1.040	1.08	NO	2.5095	2.5095
13	30 PCB-35	33.02	33.02	1.948e4	1.775e4	1.040	1.10	NO	2.4769	2.4769
14	31 PCB-37	33.48	33.46	1.817e4	1.796e4	1.040	1.01	NO	2.4804	2.4804



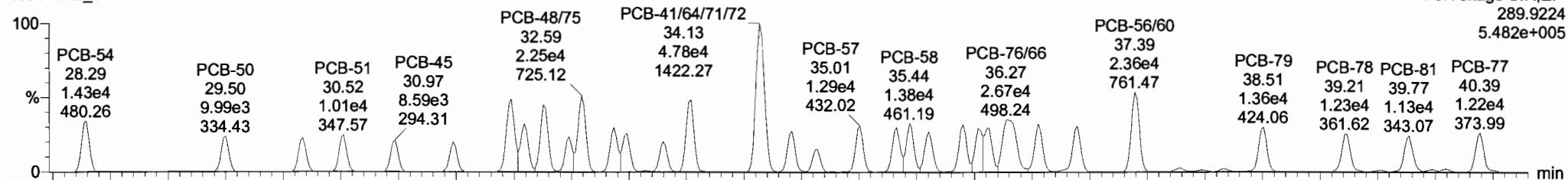
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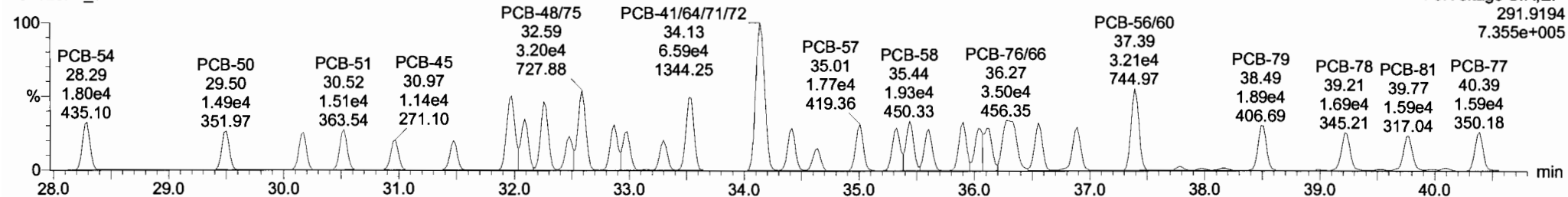
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**PCB-54**

190628K2\_3

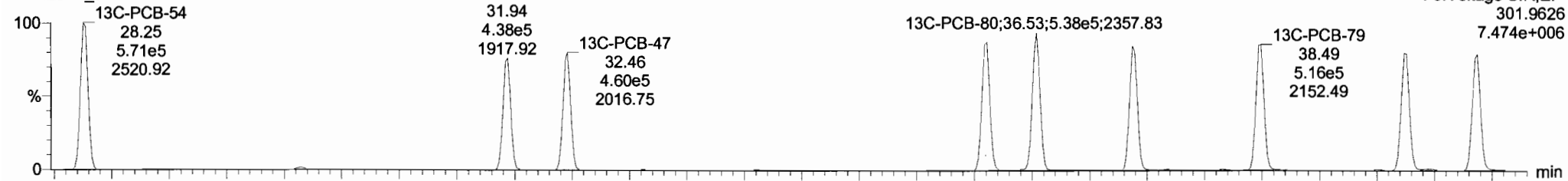


190628K2\_3

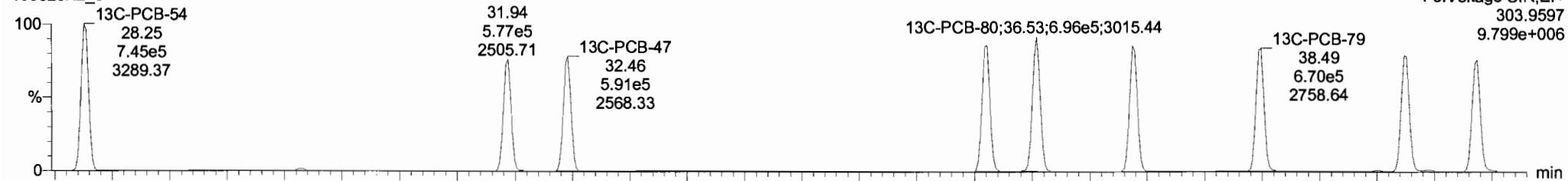


**13C-PCB-54**

190628K2\_3



190628K2\_3

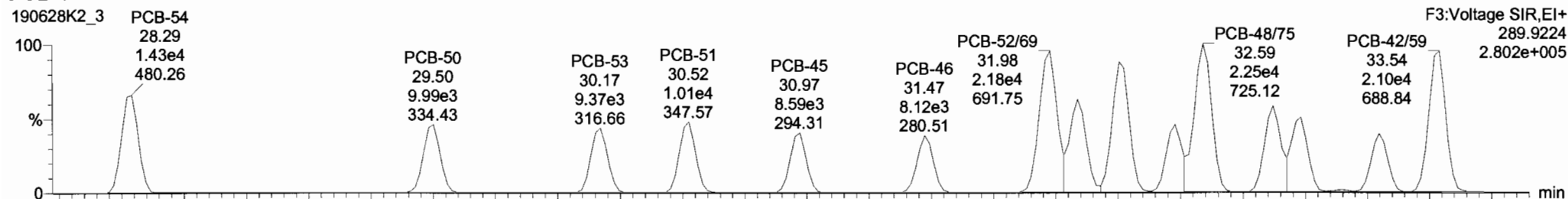


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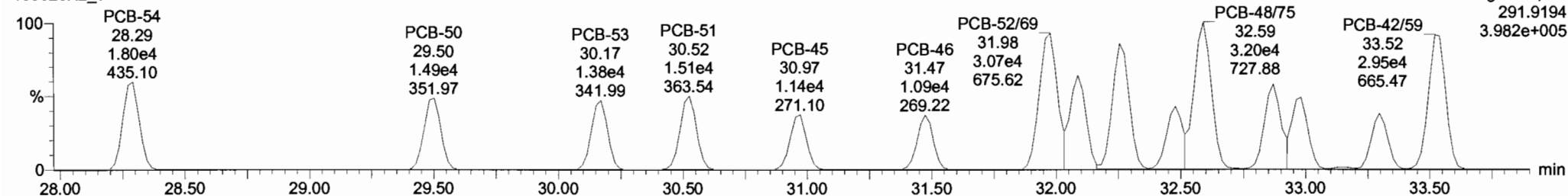
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Name: 190628K2\_3, Date: 28-Jun-2019, Time: 18:36:12, ID: ST190628K2-3 PCB 209 CS2 19C1105, Description: PCB 209 CS2 19C1105

**PCB-50**



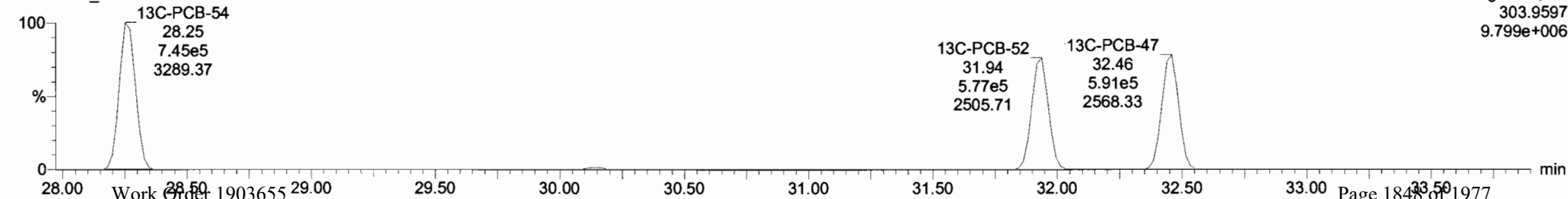
190628K2\_3



**13C-PCB-52**



190628K2\_3

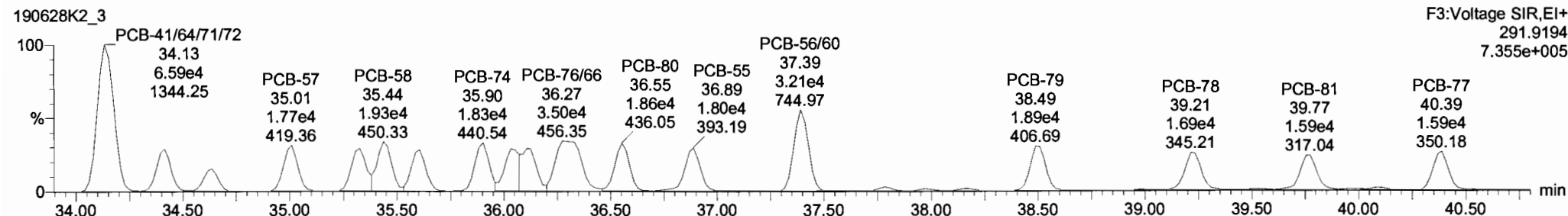
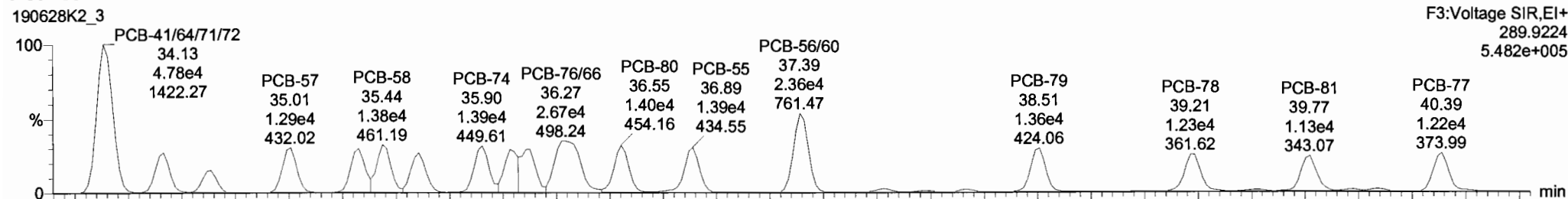


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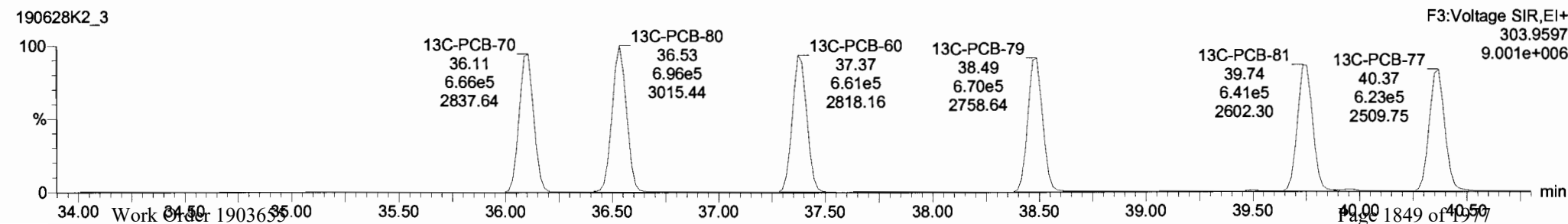
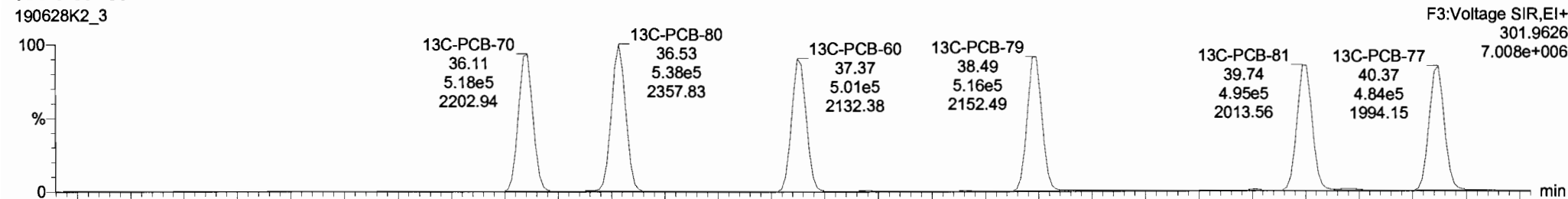
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Name: 190628K2\_3, Date: 28-Jun-2019, Time: 18:36:12, ID: ST190628K2-3 PCB 209 CS2 19C1105, Description: PCB 209 CS2 19C1105

**PCB-68**

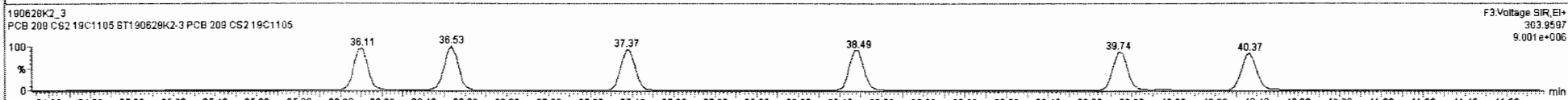
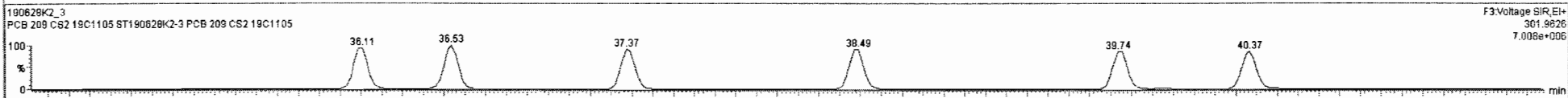
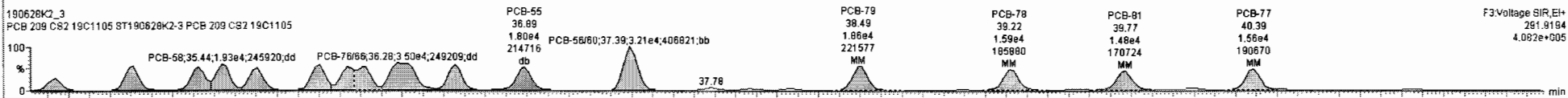
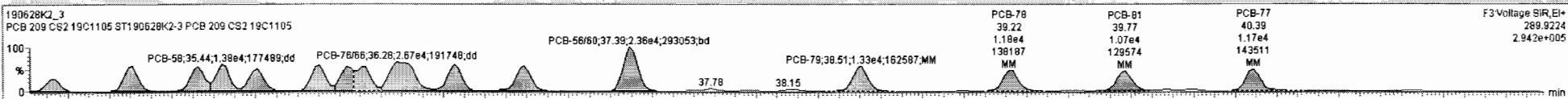


**13C-PCB-60**



#	Name	Resp	RA	n/y	RRF	w/w/d	Pred.RT	RT	Pred.R...	RRT	RRT:Fail	Conc	%Rec	DL	EMPC
218	13C-PCB-162	5.65e5	0.45	NO	1.0000	1.000	47.13	47.13	0.000	0.000	NO	100.0	100	0.0608	
219	13C-PCB-205	7.62e5	0.90	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0533	
220	13C-PCB-79	1.19e6	0.77	NO	1.0320	1.000	38.47	38.49	1.029	1.030	NO	98.88	98.9	0.0785	
221	13C-PCB-178	5.26e5	0.45	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	102.4	102	0.0688	
222	13C-PCB-79	1.19e6	0.78	NO	1.0454	1.000	38.46	38.49	0.968	0.968	NO	99.25	99.2	0.0831	
223	13C-PCB-178	5.26e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	100.9	101	0.0663	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	7.411		0.0178	7.411
225	Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	29.32		0.247	29.32
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	19.53		0.0708	19.53
227	3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	36.30		0.282	36.30
228	Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	103.0		0.434	103.0
229	3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	100.0		0.342	100.0
230	4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	12.15		0.101	12.15

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	32 PCB-54	28.27	28.29	1.435e4	1.805e4	0.770	0.79	NO	2.4715	2.4715
2	33 PCB-50	29.49	29.50	9.985e3	1.489e4	0.770	0.67	NO	2.4187	2.4187
3	34 PCB-53	30.18	30.17	9.368e3	1.384e4	0.770	0.68	NO	2.3940	2.3940
4	35 PCB-51	30.53	30.52	1.010e4	1.507e4	0.770	0.67	NO	2.4225	2.4225
5	36 PCB-45	30.97	30.97	8.595e3	1.140e4	0.770	0.75	NO	2.4379	2.4379
6	37 PCB-46	31.47	31.47	8.118e3	1.090e4	0.770	0.75	NO	2.4858	2.4858
7	38 PCB-52/69	31.98	31.98	2.177e4	3.070e4	0.770	0.71	NO	4.7341	4.7341





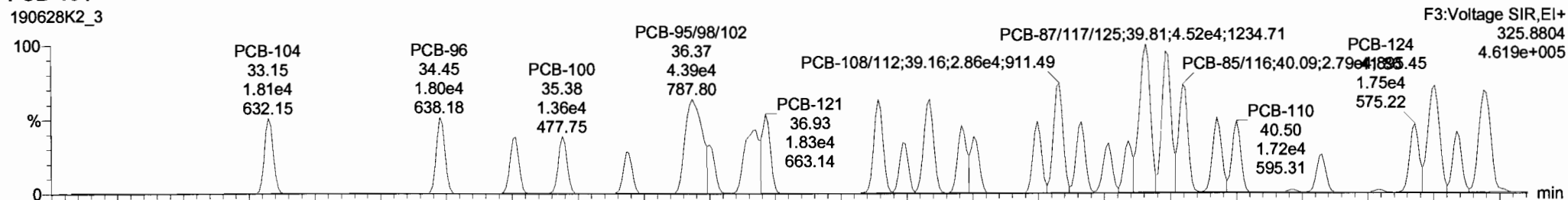
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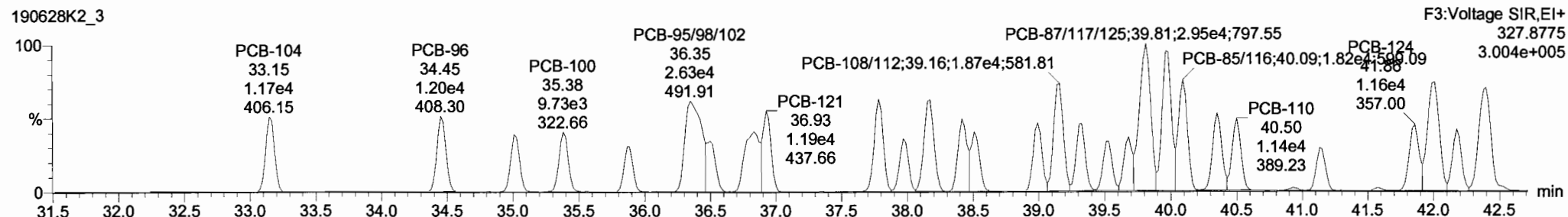
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**PCB-104**

190628K2\_3

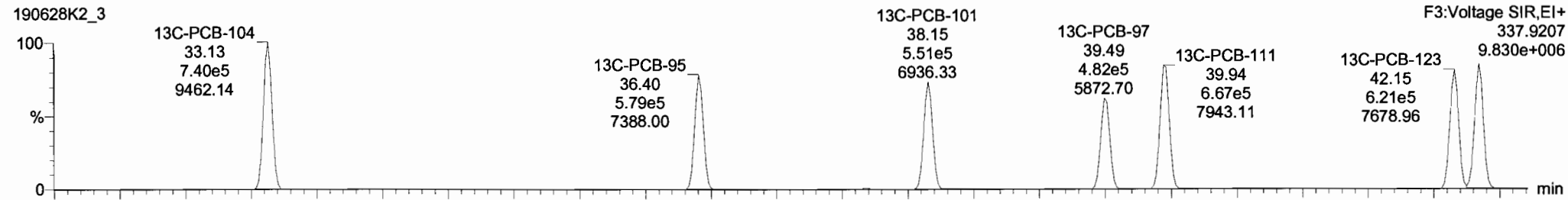


190628K2\_3

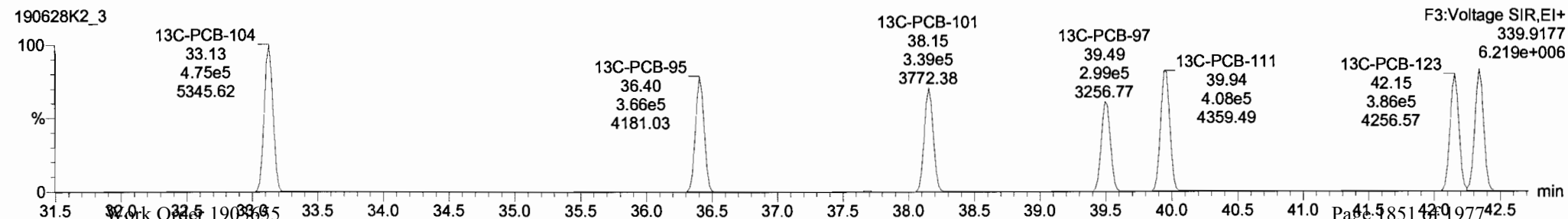


**13C-PCB-104**

190628K2\_3



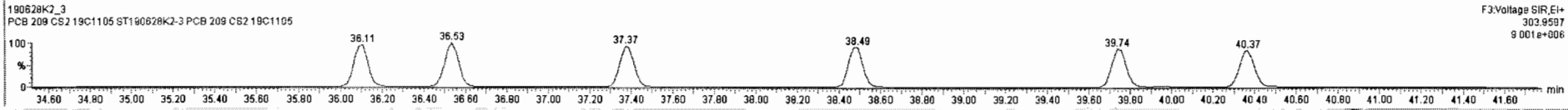
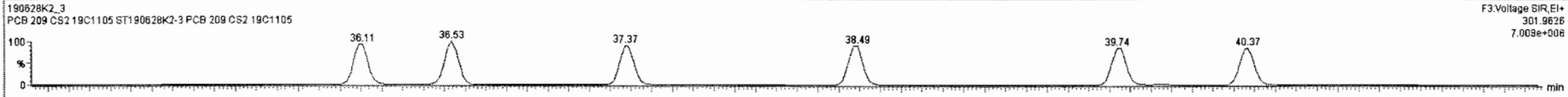
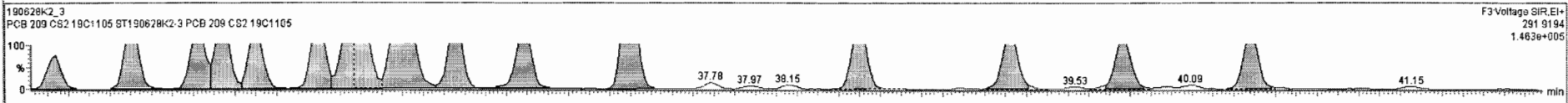
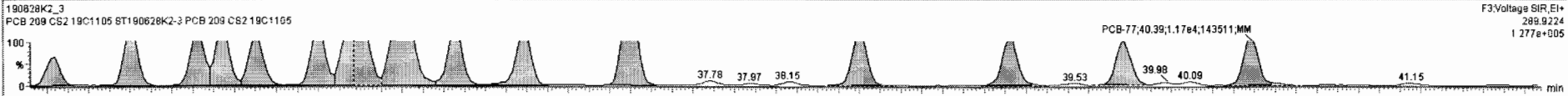
190628K2\_3



190628K2\_3 - ST190628K2-3 PCB 209 CS2 19C1105 - PCB 209 CS2 19C1105

#	Name	Resp	RA	rv	RRF	wt/d	Prod RT	RT	Prod.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
216	218 13C-PCB-182	5.65e5	0.45	NO	1.0000	1.000	47.13	47.13	0.000	0.000	NO	100.0	100	0.0608	
219	219 13C-PCB-205	7.62e5	0.90	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0533	
220	220 13C-PCB-79	1.19e6	0.77	NO	1.0320	1.000	38.47	38.49	1.029	1.030	NO	98.98	98.9	0.0785	
221	221 13C-PCB-176	5.26e5	0.45	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	102.4	102	0.0668	
222	222 13C-PCB-79	1.18e6	0.78	NO	1.0454	1.000	38.46	38.49	0.968	0.969	NO	99.25	99.2	0.0831	
223	223 13C-PCB-176	5.26e5	0.45	NO	0.8749	1.000	46.59	46.58	0.924	0.924	NO	100.9	101	0.0668	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	7.411		0.0178	7.411
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	29.32		0.247	29.32
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	19.53		0.0708	19.53
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	38.30		0.282	38.30
228	228 Total Tetra-PCBs				0.9661	1.000	0.00		0.000		NO	103.0		0.434	103.0
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	100.0		0.342	100.0
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	12.15		0.101	12.15

#	Name	Prod RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Prod)	RA	rv	EMPC	Conc.
1	32 PCB-54	28.27	28.29	1.435e4	1.805e4	0.770	0.79	NO	2.4715	2.4715
2	33 PCB-50	29.49	29.50	9.989e3	1.469e4	0.770	0.87	NO	2.4187	2.4187
3	34 PCB-53	30.18	30.17	9.368e3	1.384e4	0.770	0.88	NO	2.3940	2.3940
4	35 PCB-51	30.53	30.52	1.010e4	1.507e4	0.770	0.87	NO	2.4225	2.4225
5	36 PCB-45	30.97	30.97	8.595e3	1.140e4	0.770	0.75	NO	2.4379	2.4379
6	37 PCB-46	31.47	31.47	8.118e3	1.090e4	0.770	0.75	NO	2.4858	2.4858
7	38 PCB-52/68	31.98	31.98	2.177e4	3.070e4	0.770	0.71	NO	4.7341	4.7341



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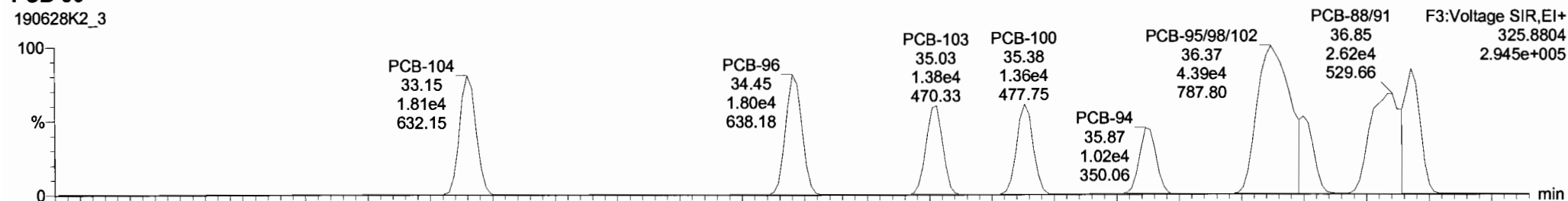
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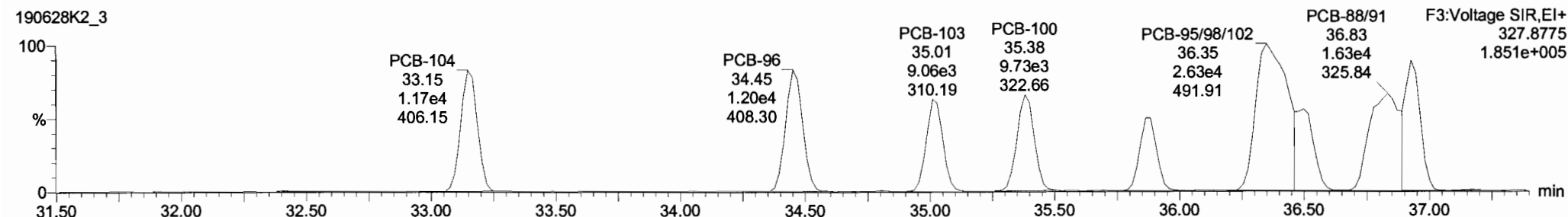
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PCB-96

190628K2\_3

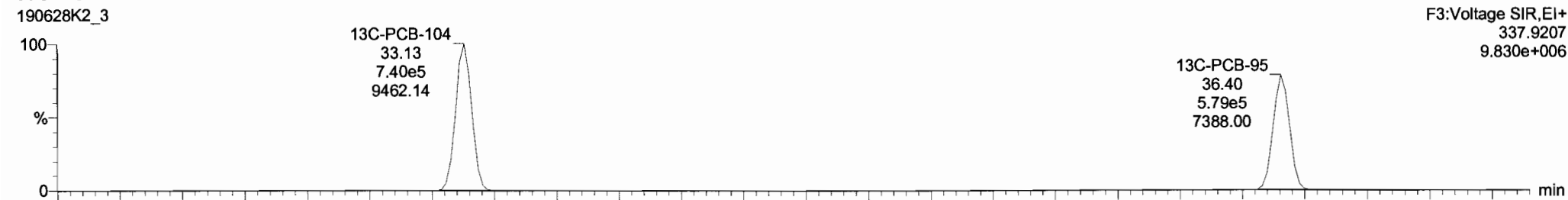


190628K2\_3

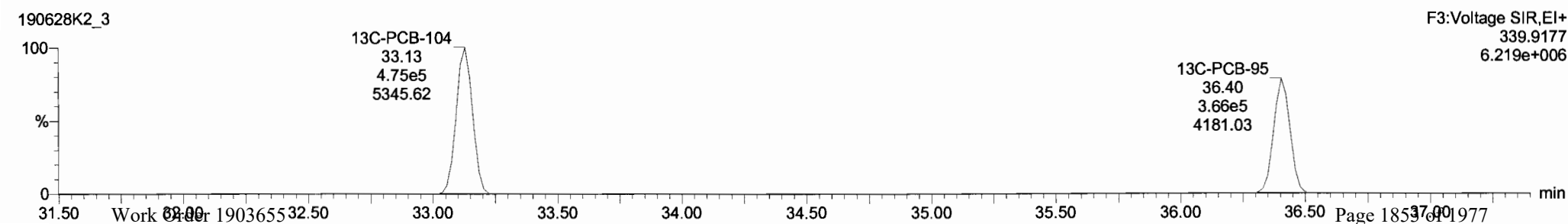


13C-PCB-95

190628K2\_3



190628K2\_3



Vista Analytical Laboratory VG-11

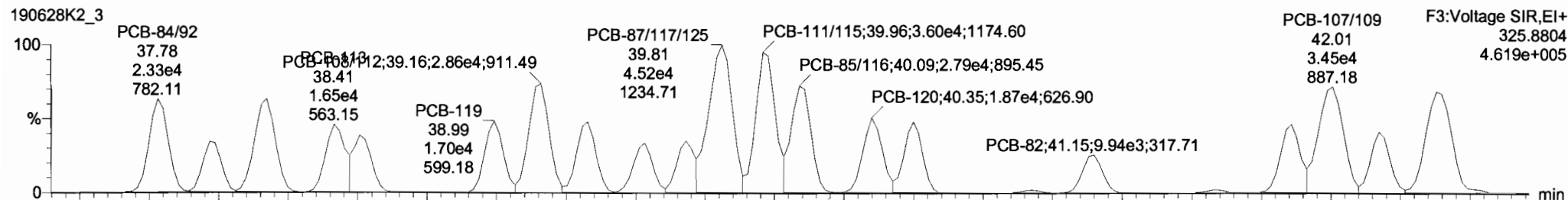
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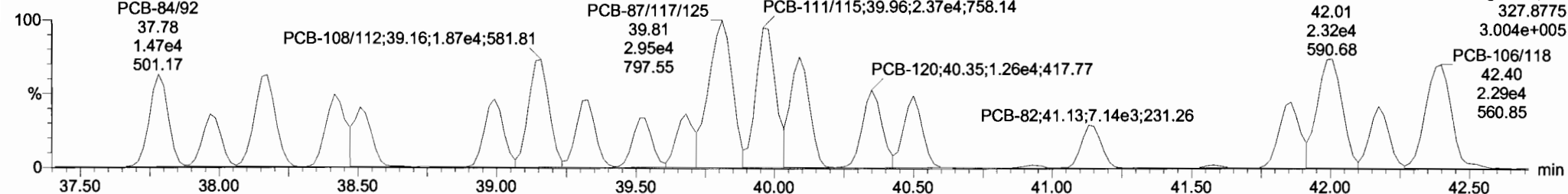
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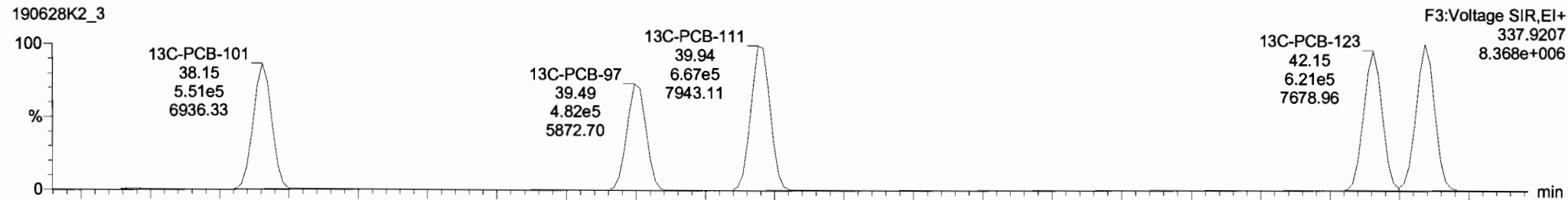
PCB-119



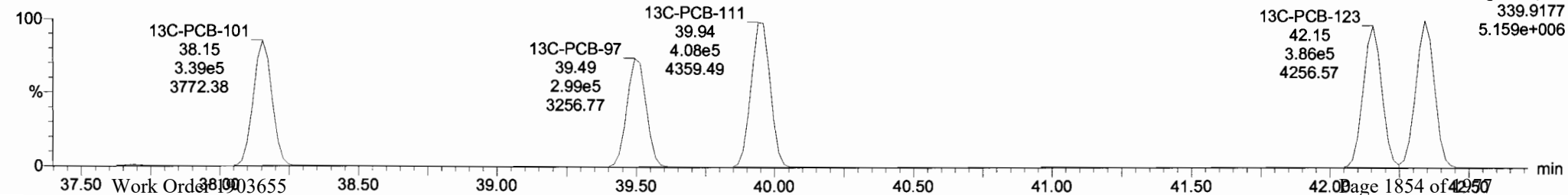
190628K2\_3



13C-PCB-111

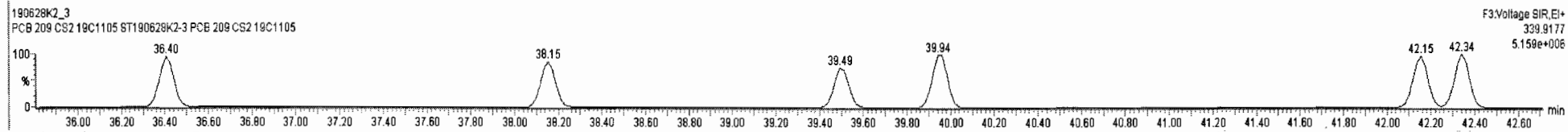
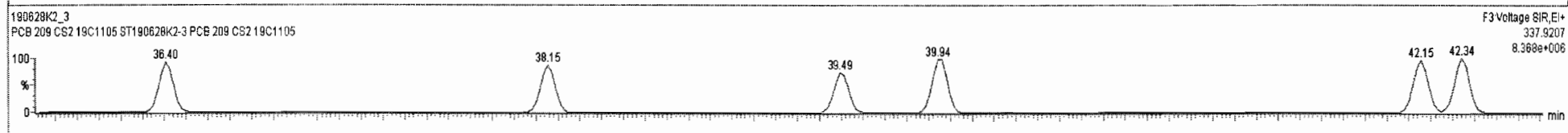
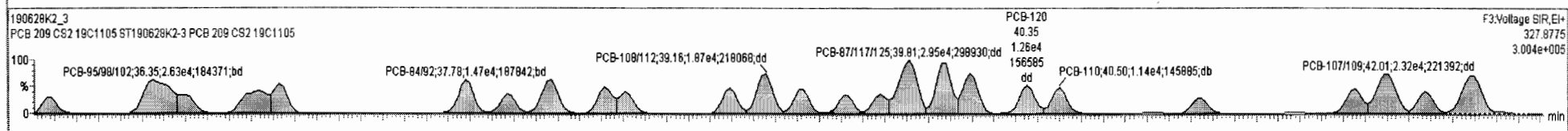
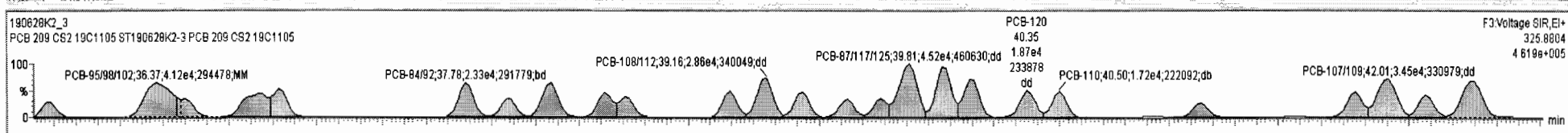


190628K2\_3



#	Name	Resp	RA	n/y	RRF	wAol	Pred.RT	RT	Pred.R...	RRT	RRT Fcl	Conc.	%Rec	DL	EMPC
218	13C-PCB-182	5.65e5	0.45	NO	1.0000	1.000	47.13	47.13	0.000	0.000	NO	100.0	100	0.0608	
219	13C-PCB-205	7.62e5	0.90	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0533	
220	13C-PCB-79	1.19e6	0.77	NO	1.0320	1.000	38.47	38.49	1.029	1.030	NO	98.88	98.9	0.0785	
221	13C-PCB-178	5.26e5	0.45	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	102.4	102	0.0688	
222	13C-PCB-79	1.18e6	0.78	NO	1.0454	1.000	38.46	38.49	0.968	0.969	NO	99.25	99.2	0.0831	
223	13C-PCB-178	5.26e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	100.9	101	0.0689	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	7.411		0.0178	7.411
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	29.32		0.247	29.32
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	19.53		0.0708	19.53
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	38.30		0.282	38.30
228	228 Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	103.0		0.434	103.0
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	100.0		0.342	100.0
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	12.15		0.101	12.15

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	64 PCB-104	33.15	33.15	1.810e4	1.174e4	1.560	1.54	NO	2.4699	2.4699
2	65 PCB-96	34.47	34.45	1.795e4	1.204e4	1.560	1.49	NO	2.4799	2.4799
3	66 PCB-103	35.03	35.03	1.379e4	9.059e3	1.560	1.52	NO	2.4289	2.4289
4	67 PCB-100	35.40	35.38	1.364e4	9.729e3	1.560	1.40	NO	2.4736	2.4736
5	68 PCB-94	35.89	35.87	1.021e4	7.233e3	1.560	1.41	NO	2.3845	2.3845
6	69 PCB-95/98/102	36.38	36.37	4.124e4	2.627e4	1.560	1.57	NO	7.0362	7.0362
7	70 PCB-83	36.51	36.48	1.289e4	8.560e3	1.560	1.51	NO	2.6971	2.6971



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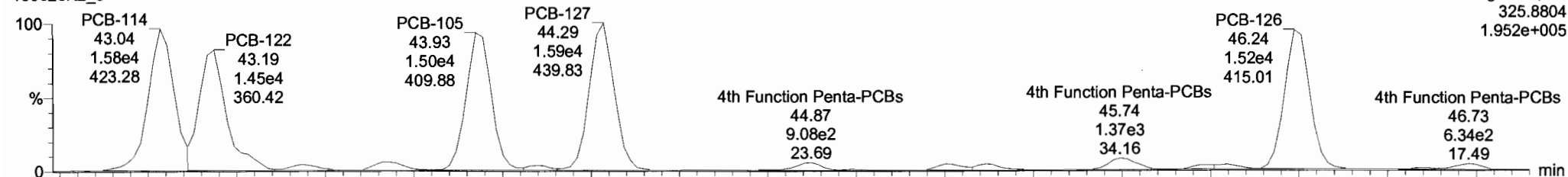
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Name: 190628K2\_3, Date: 28-Jun-2019, Time: 18:36:12, ID: ST190628K2-3 PCB 209 CS2 19C1105, Description: PCB 209 CS2 19C1105

**PCB-114**

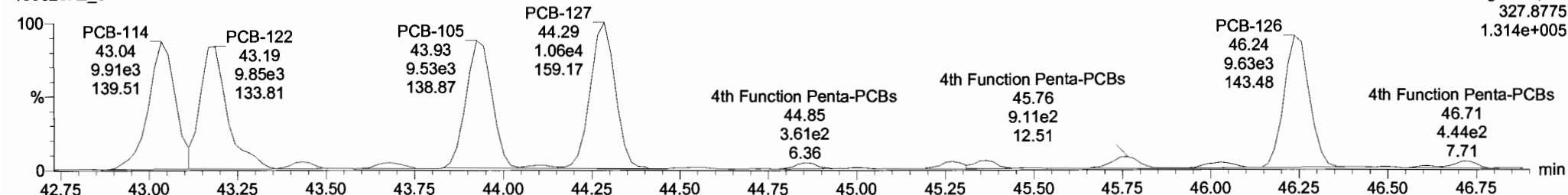
190628K2\_3

F4:Voltage SIR,EI+  
325.8804  
1.952e+005



190628K2\_3

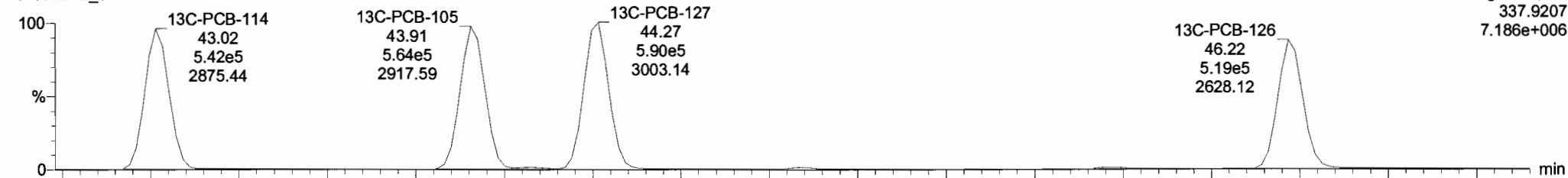
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327.8775  
1.314e+005



**13C-PCB-114**

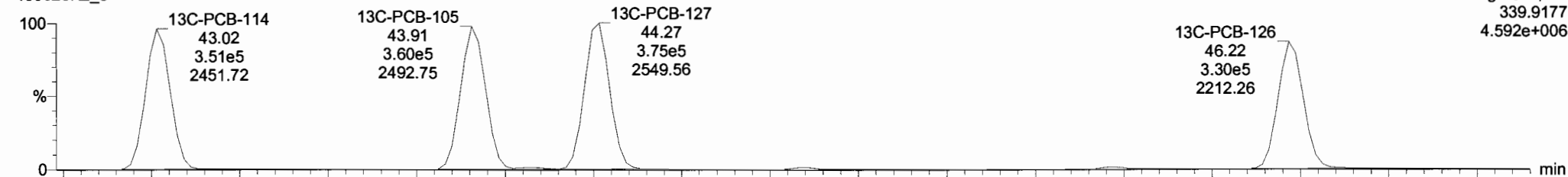
190628K2\_3

F4:Voltage SIR,EI+  
337.9207  
7.186e+006



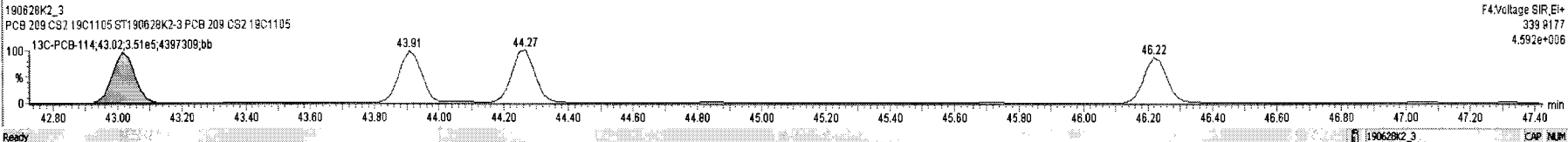
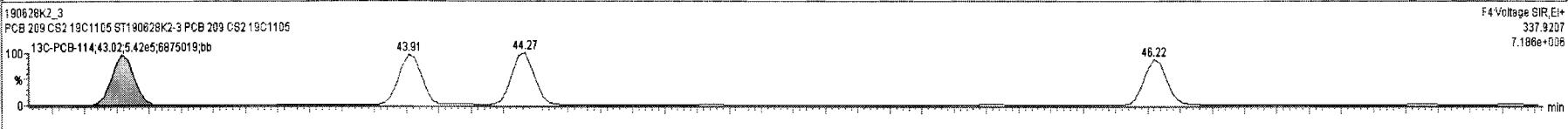
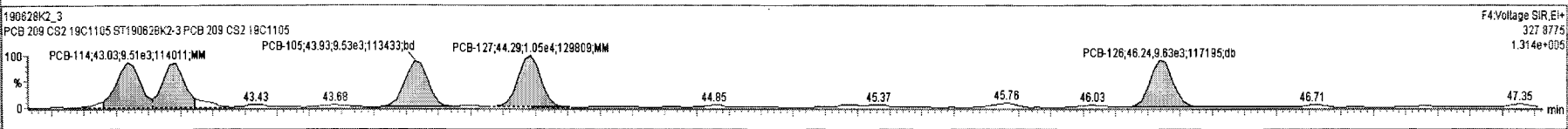
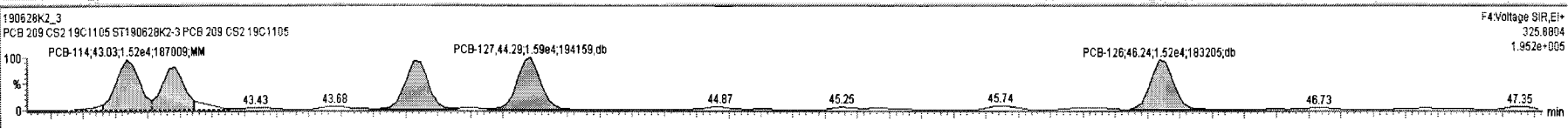
190628K2\_3

F4:Voltage SIR,EI+  
339.9177  
4.592e+006



#	Name	Resp	RA	n/y	RF	wt/col	Pred.RT	RT	Pred.R	RRT	RRT/Fac	Conc.	%Rec	DL	EMPC
218	13C-PCB-182	5.55e5	0.45	NO	1.0000	1.000	47.13	47.13	0.000	0.000	NO	100.0	100	0.0808	
219	13C-PCB-205	7.62e5	0.90	NO	1.0000	1.000	55.60	55.60	1.000	0.000	NO	100.0	100	0.0533	
220	13C-PCB-79	1.19e6	0.77	NO	1.0320	1.000	38.47	38.49	1.029	1.030	NO	98.88	98.9	0.0785	
221	13C-PCB-178	5.26e5	0.45	NO	0.8746	1.000	46.58	46.58	0.989	0.988	NO	102.4	102	0.0888	
222	13C-PCB-79	1.18e6	0.78	NO	1.0454	1.000	38.45	38.49	0.969	0.969	NO	99.25	99.2	0.0831	
223	13C-PCB-178	5.26e5	0.45	NO	0.9749	1.000	46.59	46.58	0.924	0.924	NO	100.9	101	0.0669	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	7.411		0.0178	7.411
225	Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	28.32		0.247	28.32
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	19.53		0.0708	19.53
227	3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	36.30		0.282	36.30
228	Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	103.0		0.434	103.0
229	3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	100.0		0.342	100.0
230	4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	12.15		0.101	12.15

#	Name	Pred.RT	RT	wt Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
93	PCB-114	43.04	43.03	1.523e4	9.510e3	1.580	1.60	NO	2.3840	2.3840
94	PCB-122	43.17	43.19	1.285e4	8.739e3	1.580	1.47	NO	2.4848	2.4848
95	PCB-105	43.92	43.93	1.498e4	9.530e3	1.580	1.57	NO	2.4067	2.4067
96	PCB-127	44.28	44.29	1.590e4	1.051e4	1.580	1.51	NO	2.4667	2.4667
97	PCB-126	46.24	46.24	1.518e4	9.627e3	1.580	1.58	NO	2.4092	2.4092



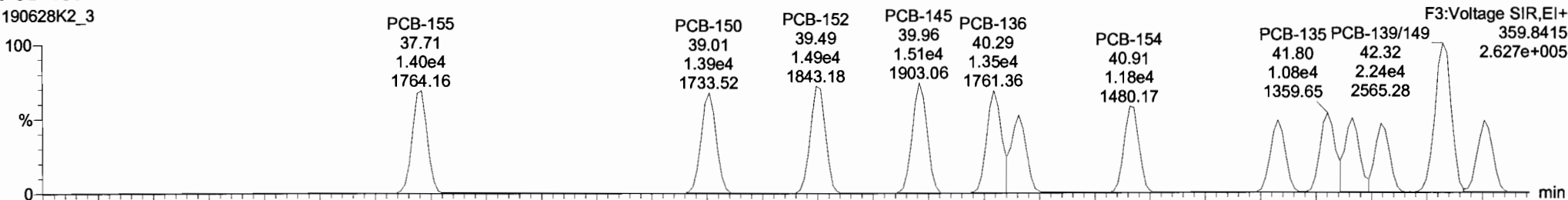
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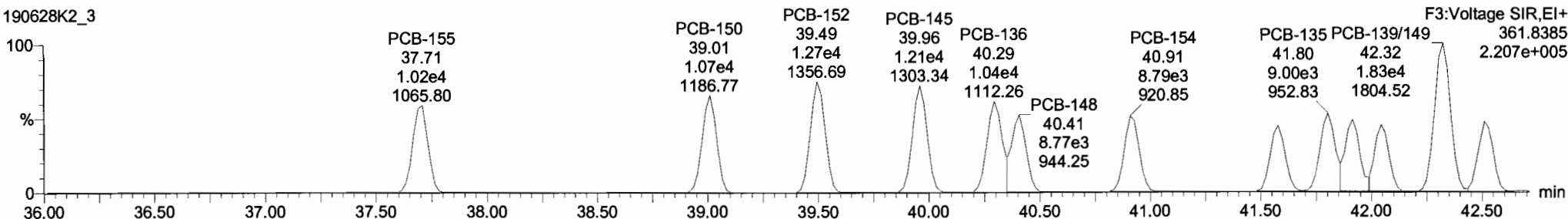
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**PCB-155**

190628K2\_3

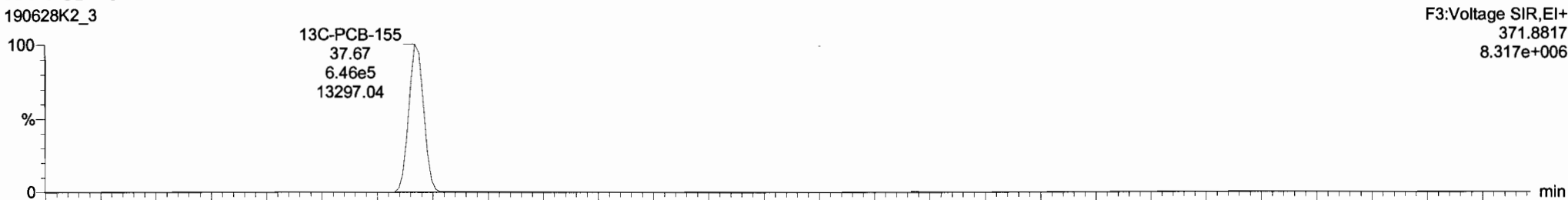


190628K2\_3



**13C-PCB-155**

190628K2\_3



190628K2\_3

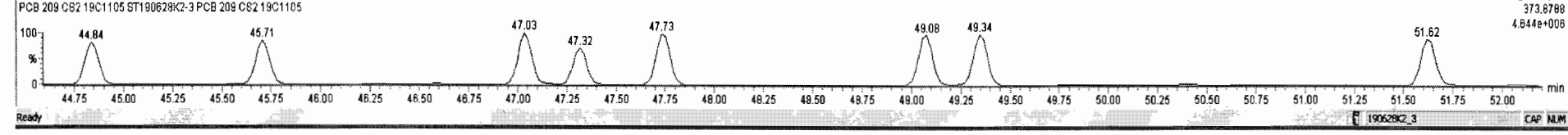
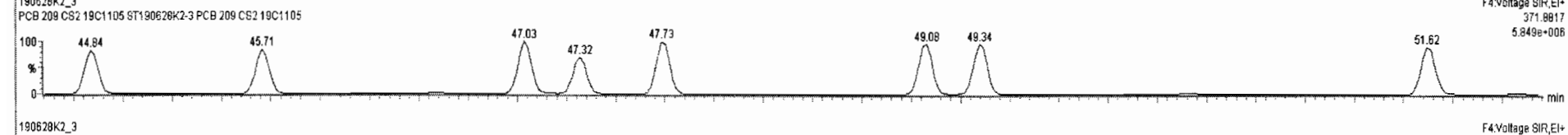
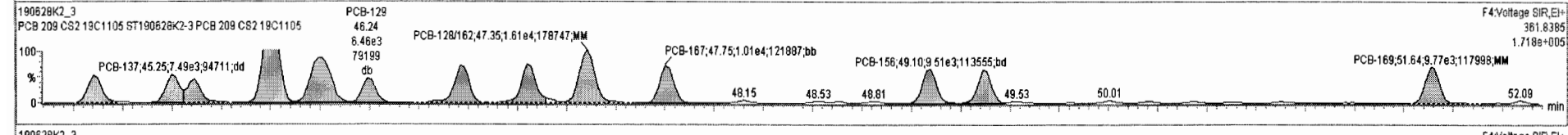
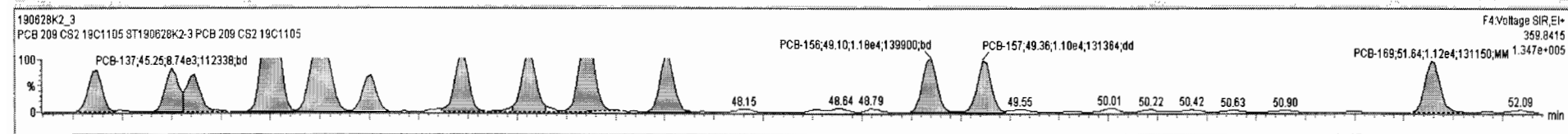




190628K2\_3 - ST190628K2-3 PCB 209 CS2 19C1105 . PCB 209 CS2 19C1105

#	Name	Resp	RA	n/y	RRT	wVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	87.78		0.231	67.78
233	233 Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	59.03		0.217	59.03
234	234 4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	22.23		0.0851	22.23
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	7.464		0.0370	7.464
236	236 Total Nona-PCBs				0.9446	1.000	0.00		0.000		NO	7.182		0.0277	7.182
237	237 Deca-CB				0.9426	1.000	0.00		0.000		NO	2.376		0.00291	2.376
238	238 Total PCBs														
239	239 Total Mono-Isotopes														
240	240 Total Di-Isotopes														
241	241 2nd Function Tri-Isotopes														
242	242 3rd Function Tri-Isotopes														
243	243 Tetra-Isotopes				0.9949	1.000	0.00		1.000		NO	907.8		0.745	0.0000
244	244 3rd Function Penta-Isotopes				0.9098	1.000	0.00		0.000		NO	711.3		0.260	0.0000

#	Name	Pred.RT	RT	Int Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	111 PCB-134/143	42.96	42.96	1.633e4	1.330e4	1.240	1.27	NO	4.8218	4.8218
2	112 PCB-131/133	43.26	43.28	1.726e4	1.467e4	1.240	1.18	NO	4.7282	4.7282
3	113 PCB-142	43.45	43.43	8.306e3	6.659e3	1.240	1.25	NO	2.4728	2.4728
4	114 PCB-146/165	43.66	43.66	2.122e4	1.762e4	1.240	1.19	NO	4.7617	4.7617
5	115 PCB-132/161	43.91	43.91	2.224e4	1.797e4	1.240	1.24	NO	4.8287	4.8287
6	116 PCB-153	44.09	44.10	1.174e4	1.001e4	1.240	1.17	NO	2.5148	2.5148
7	117 PCB-168	44.30	44.32	1.111e4	9.523e3	1.240	1.17	NO	2.3685	2.3685

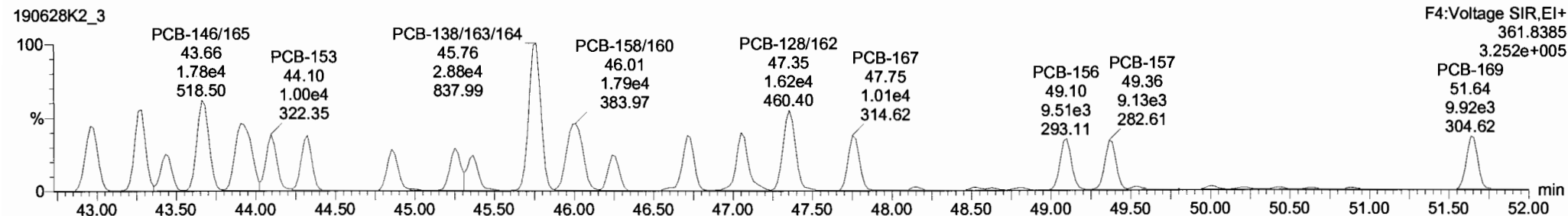
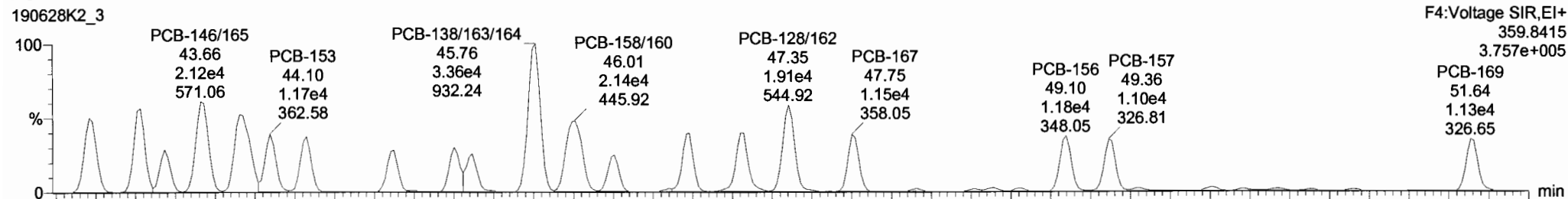


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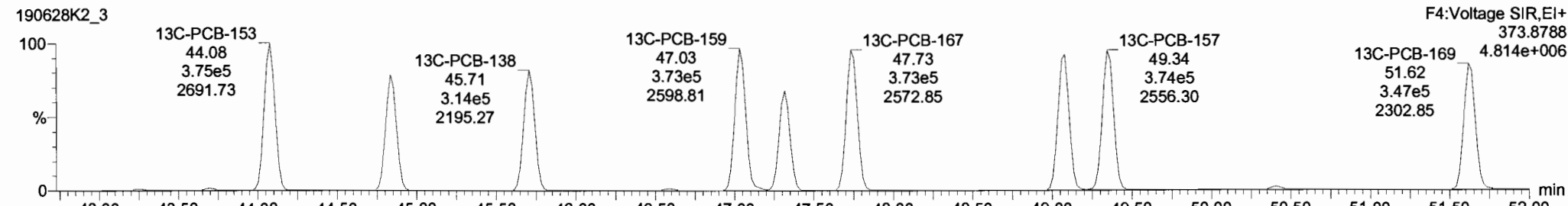
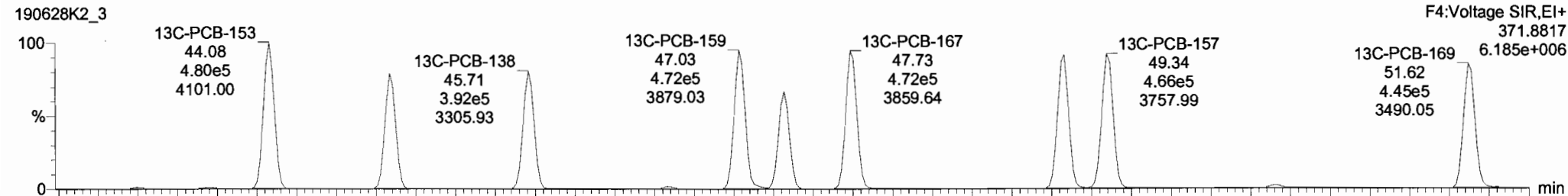
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Name: 190628K2\_3, Date: 28-Jun-2019, Time: 18:36:12, ID: ST190628K2-3 PCB 209 CS2 19C1105, Description: PCB 209 CS2 19C1105

PCB-134/143



13C-PCB-153

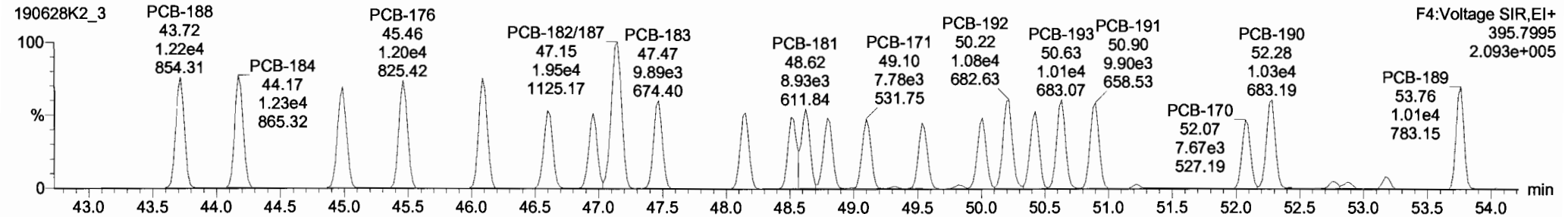
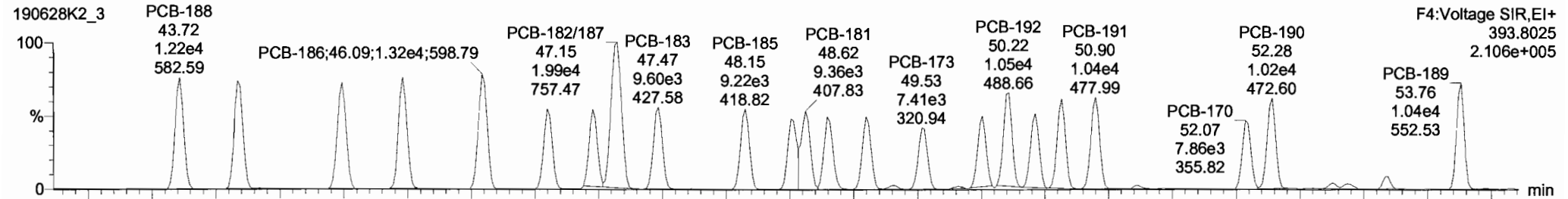


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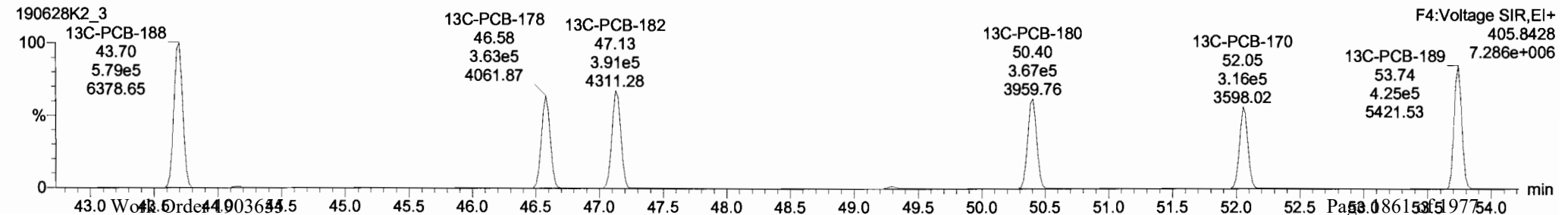
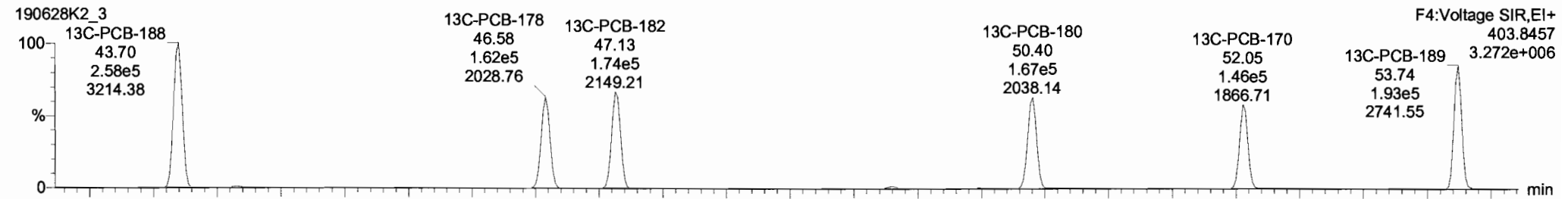
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**PCB-188**



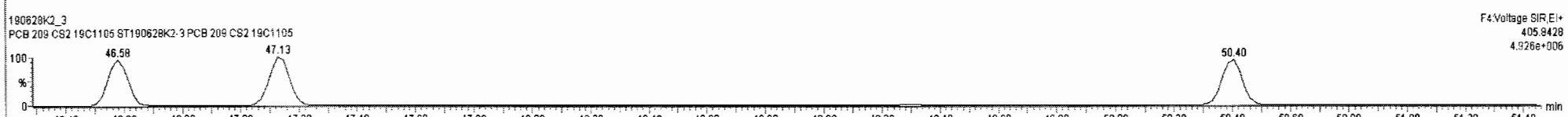
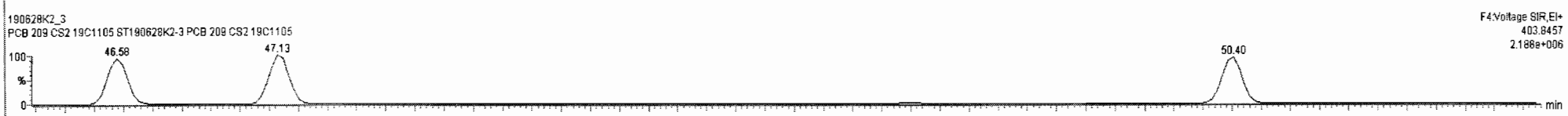
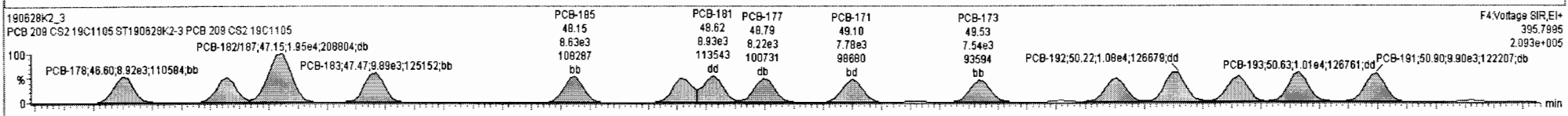
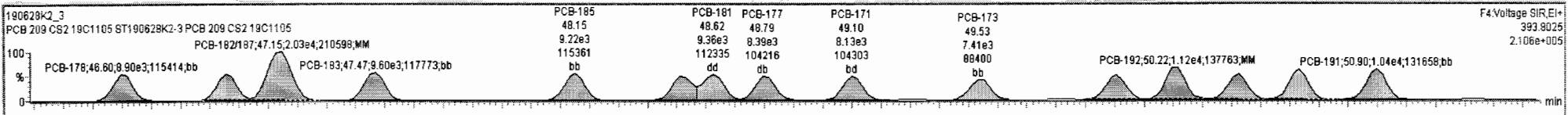
**13C-PCB-188**



190628K2\_3 - ST190628K2-3-PCB 209 CS2 19C1105 - PCB 209 CS2 19C1105

#	Name	Resp	RA	rly	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	67.78	0.331	67.78	
233	233 Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	59.03	0.217	59.03	
234	234 4th Function Octa-PCBs				0.9863	1.000	0.00		0.000		NO	22.23	0.0651	22.23	
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	7.464	0.0370	7.464	
236	236 Total Nona-PCBs				0.9446	1.000	0.00		0.000		NO	7.182	0.0277	7.182	
237	237 Deca-CB				0.9426	1.000	0.00		0.000		NO	2.376	0.00291	2.376	
238	238 Total PCBs														
239	239 Total Mono-Isotopes														
240	240 Total Di-Isotopes														
241	241 2nd Function Tri-Isotopes														
242	242 3rd Function Tri-Isotopes														
243	243 Tetra-Isotopes				0.9849	1.000	0.00		1.000		NO	907.8	0.745	0.0000	
244	244 3rd Function Penta-Isotopes				0.9098	1.000	0.00		0.000		NO	711.3	0.260	0.0000	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	rly	EMPC	Conc.
1	131 PCB-188	43.74	43.72	1.224e4	1.219e4	1.050	1.00	NO	2.4480	2.4480
2	132 PCB-184	44.19	44.17	1.230e4	1.225e4	1.050	1.00	NO	2.5166	2.5166
3	133 PCB-179	44.98	44.99	1.222e4	1.170e4	1.050	1.04	NO	2.4325	2.4325
4	134 PCB-176	45.47	45.46	1.234e4	1.204e4	1.050	1.03	NO	2.5151	2.5151
5	135 PCB-186	46.09	46.08	1.322e4	1.222e4	1.050	1.08	NO	2.4972	2.4972
6	136 PCB-178	46.61	46.60	8.896e3	8.916e3	1.050	1.00	NO	2.5649	2.5649
7	137 PCB-175	46.97	46.96	8.910e3	8.290e3	1.050	1.08	NO	2.4250	2.4250



Dataset: Untitled

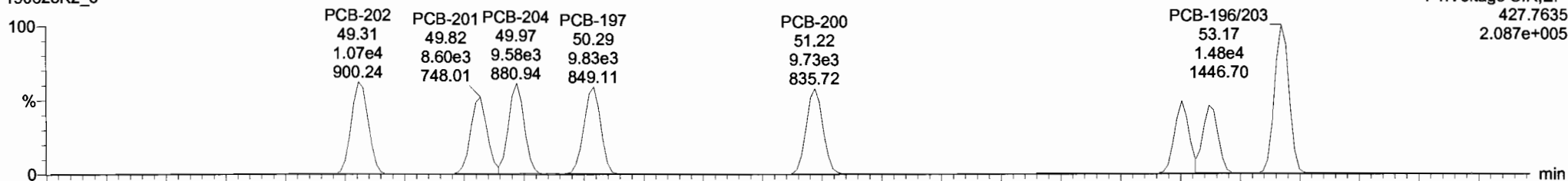
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 Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_3, Date: 28-Jun-2019, Time: 18:36:12, ID: ST190628K2-3 PCB 209 CS2 19C1105, Description: PCB 209 CS2 19C1105

**PCB-202**

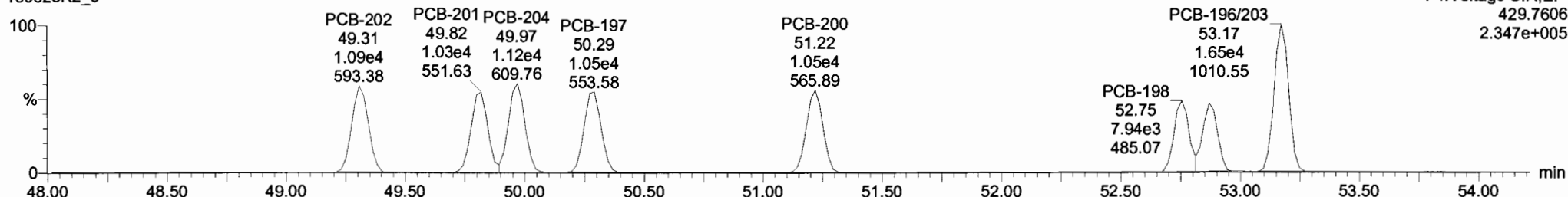
190628K2\_3

F4:Voltage SIR,EI+  
 427.7635  
 2.087e+005



190628K2\_3

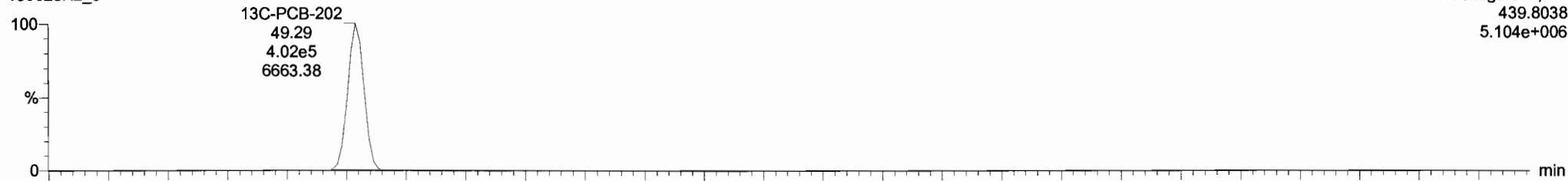
F4:Voltage SIR,EI+  
 429.7606  
 2.347e+005



**13C-PCB-202**

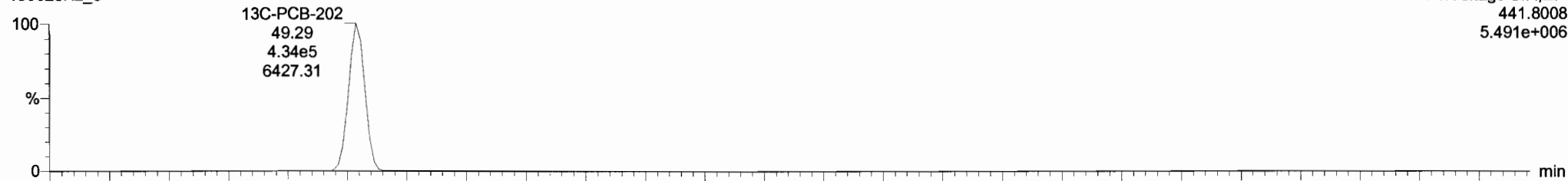
190628K2\_3

F4:Voltage SIR,EI+  
 439.8038  
 5.104e+006



190628K2\_3

F4:Voltage SIR,EI+  
 441.8008  
 5.491e+006

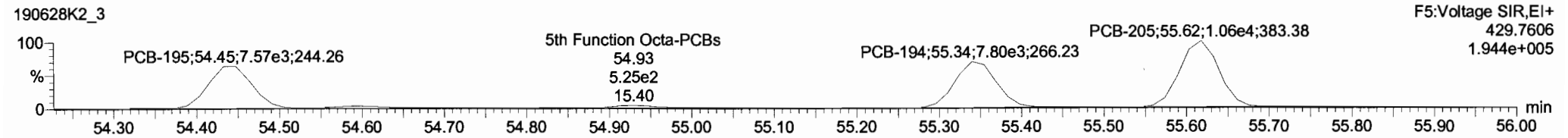
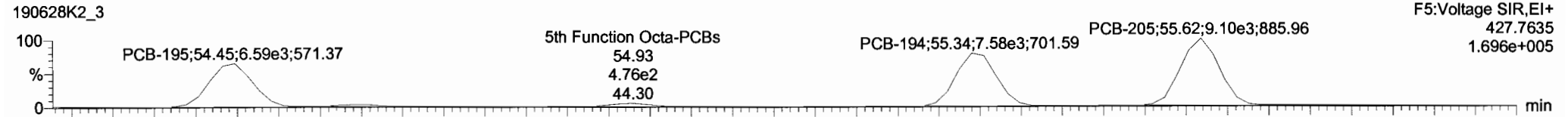


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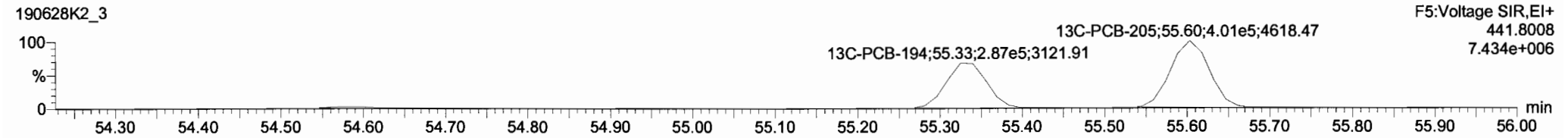
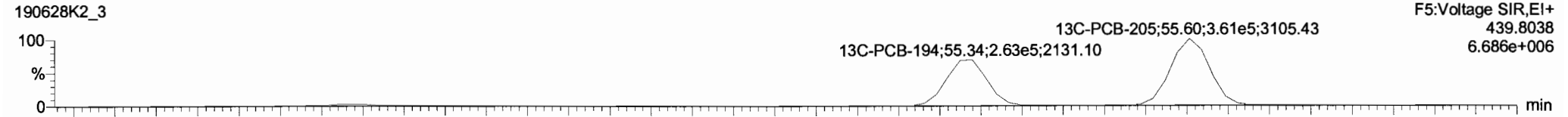
Last Altered: Saturday, June 29, 2019 12:04:52 Pacific Daylight Time  
Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

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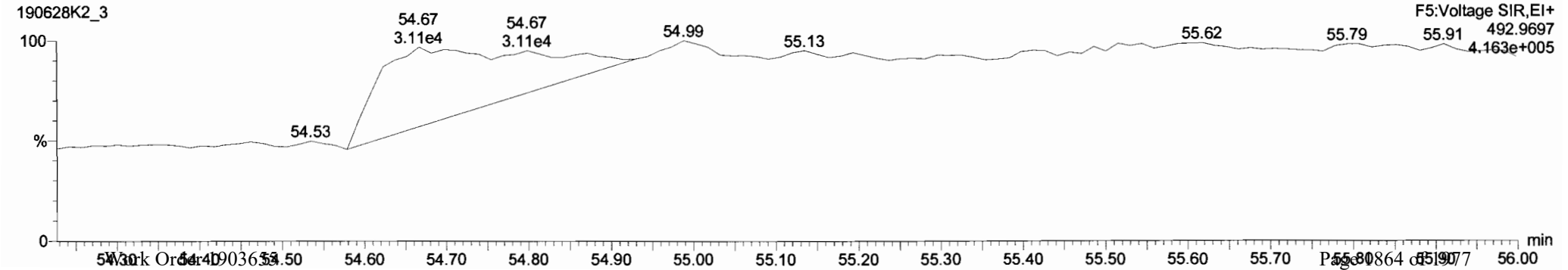
**PCB-195**



**13C-PCB-194**



**PFK5**

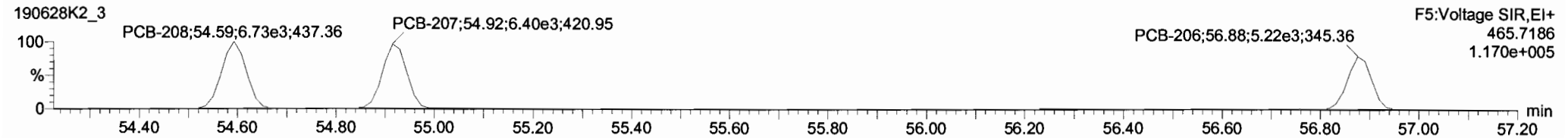
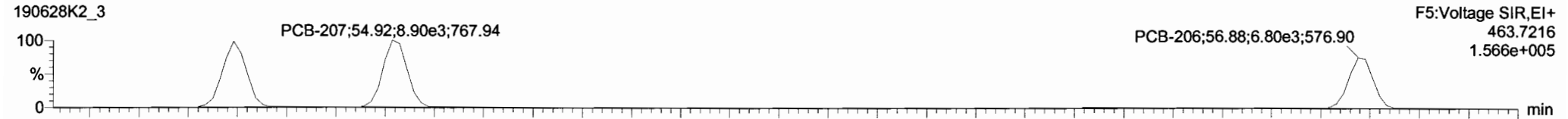


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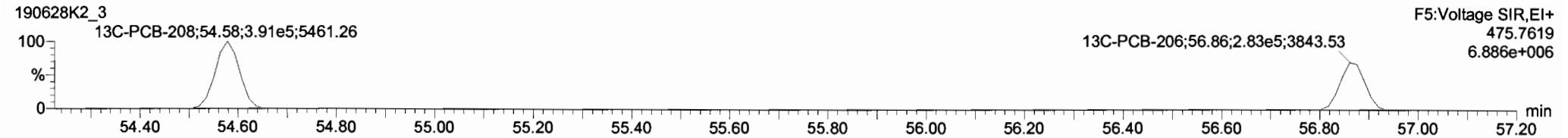
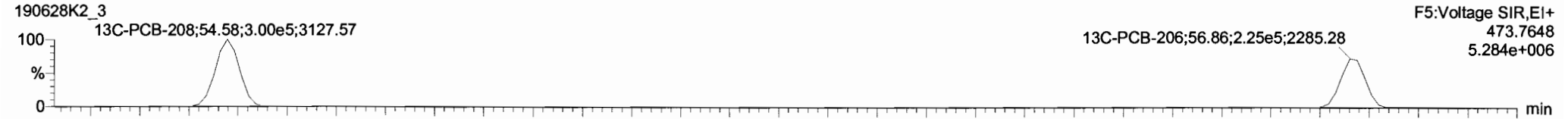
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Name: 190628K2\_3, Date: 28-Jun-2019, Time: 18:36:12, ID: ST190628K2-3 PCB 209 CS2 19C1105, Description: PCB 209 CS2 19C1105

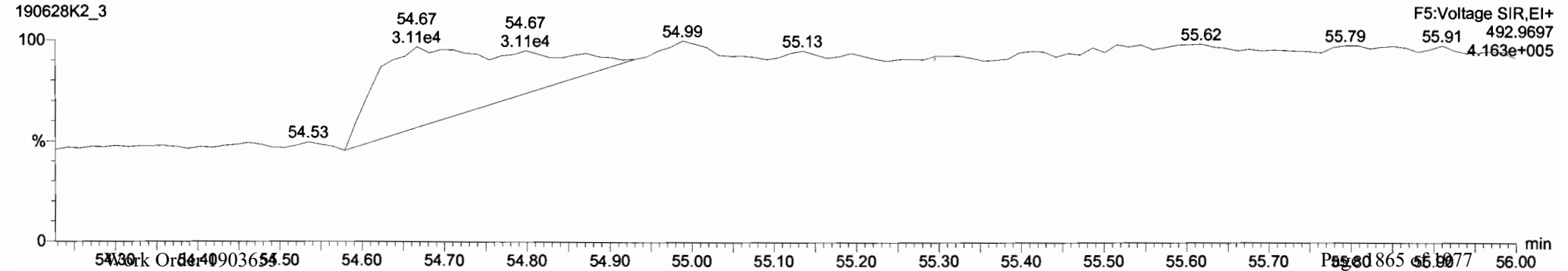
**PCB-208**



**13C-PCB-208**



**PFK5**



Dataset: Untitled

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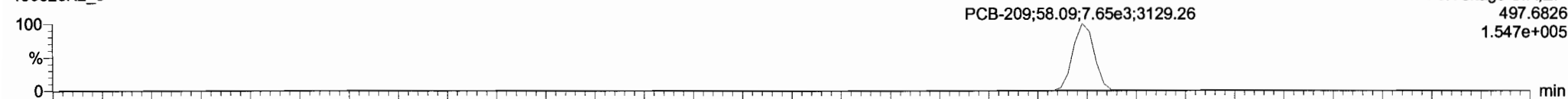
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Name: 190628K2\_3, Date: 28-Jun-2019, Time: 18:36:12, ID: ST190628K2-3 PCB 209 CS2 19C1105, Description: PCB 209 CS2 19C1105

**PCB-209**

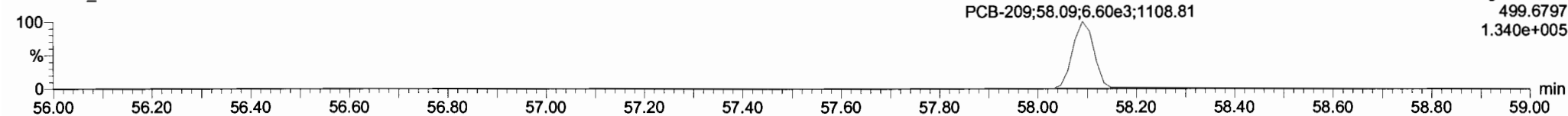
190628K2\_3

F5:Voltage SIR,EI+  
497.6826  
1.547e+005



190628K2\_3

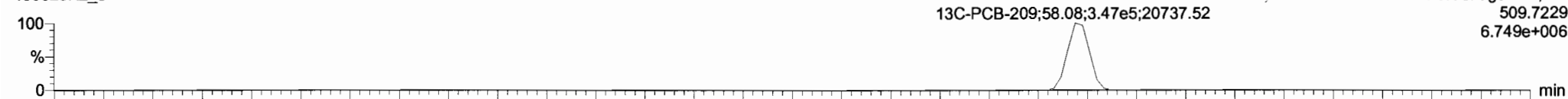
F5:Voltage SIR,EI+  
499.6797  
1.340e+005



**13C-PCB-209**

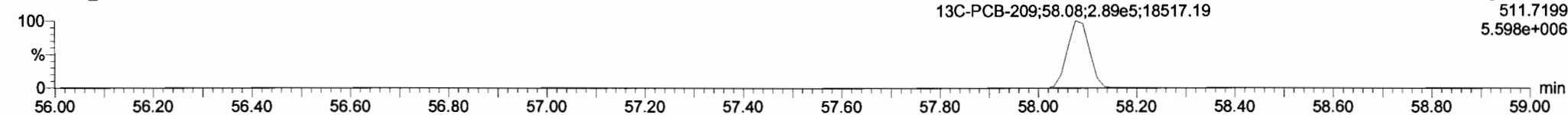
190628K2\_3

F5:Voltage SIR,EI+  
509.7229  
6.749e+006



190628K2\_3

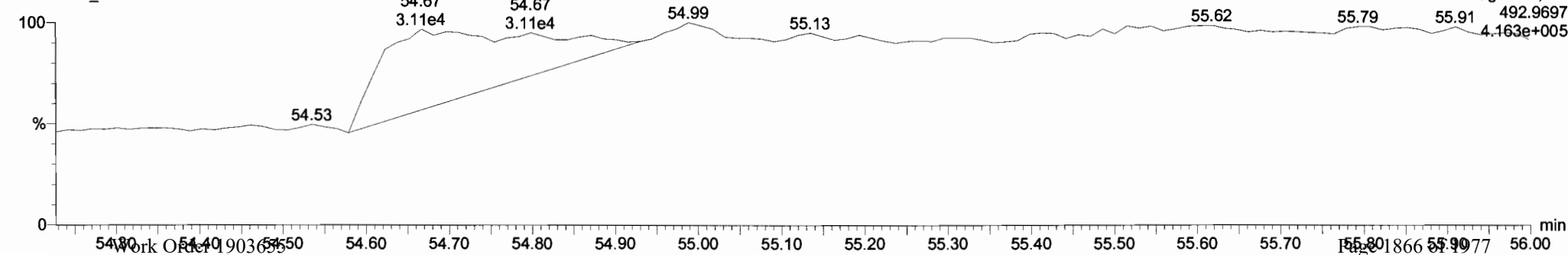
F5:Voltage SIR,EI+  
511.7199  
5.598e+006



**PFK5**

190628K2\_3

F5:Voltage SIR,EI+  
492.9697  
4.163e+005





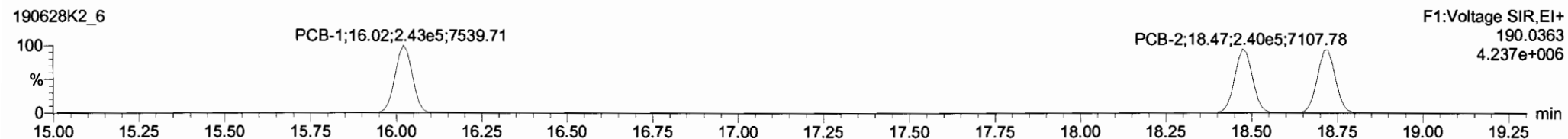
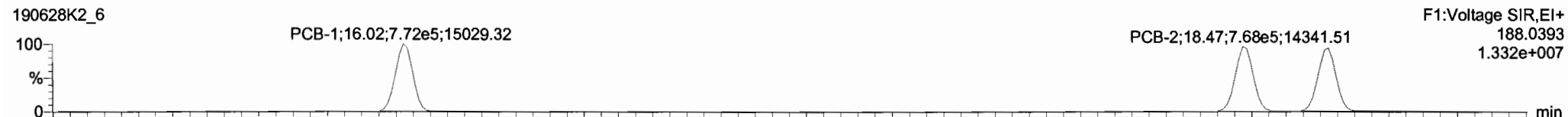
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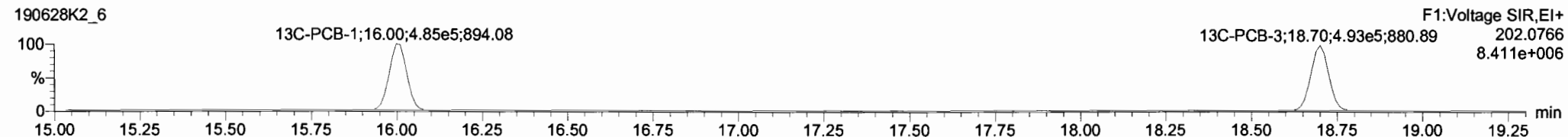
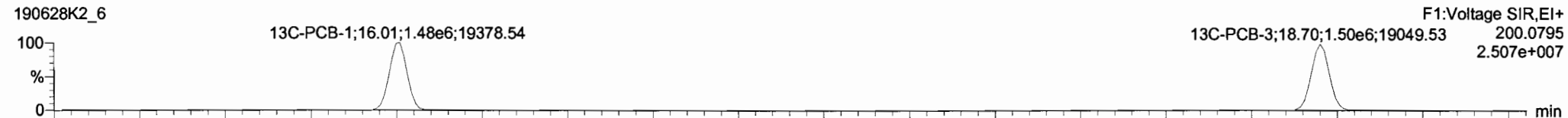
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Name: 190628K2\_6, Date: 28-Jun-2019, Time: 21:41:21, ID: ST190628K2-6 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

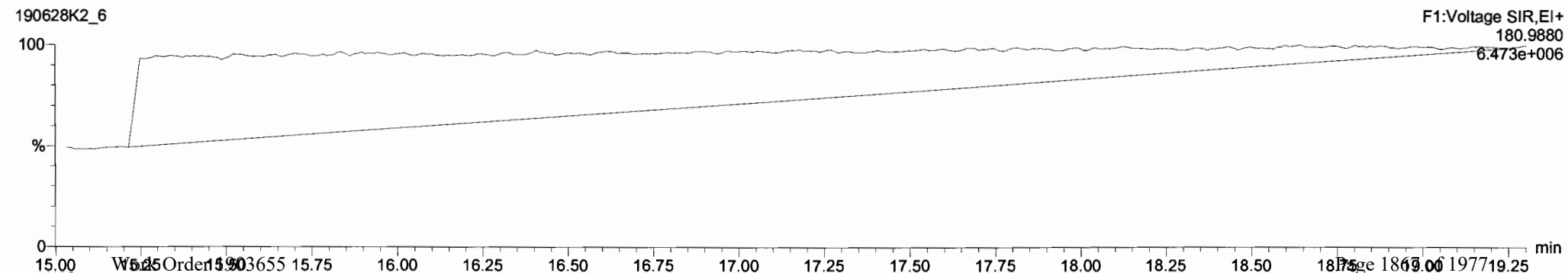
**PCB-1**



**13C-PCB-1**



**PFK1**

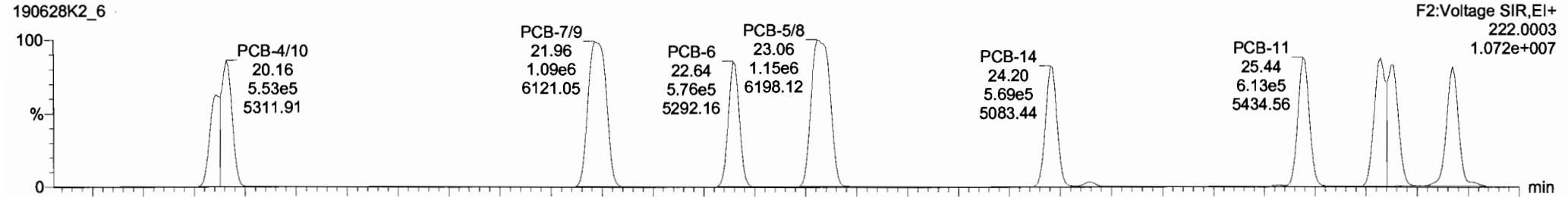


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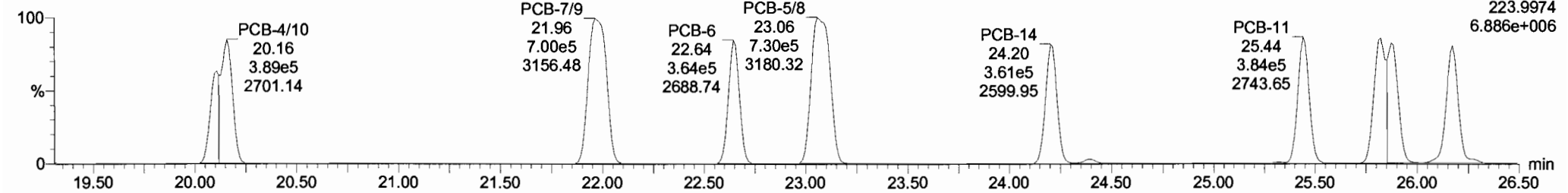
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Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_6, Date: 28-Jun-2019, Time: 21:41:21, ID: ST190628K2-6 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

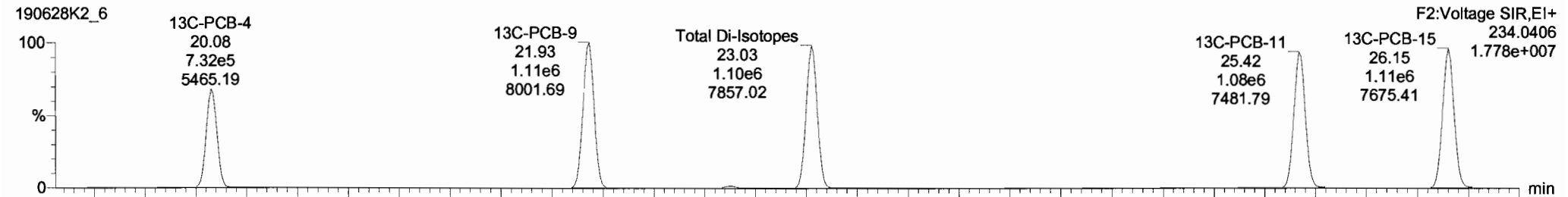
**PCB-4/10**



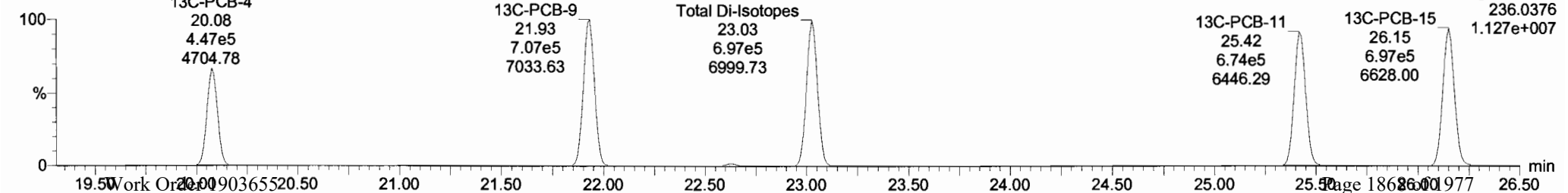
190628K2\_6



**13C-PCB-4**

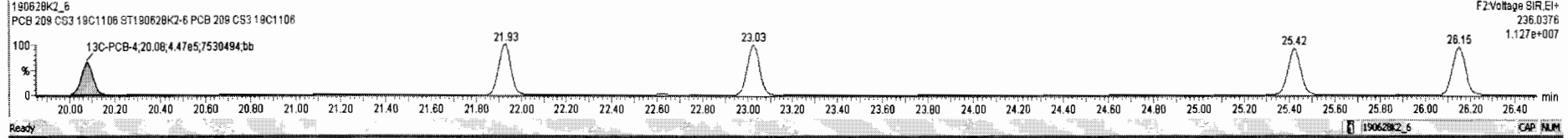
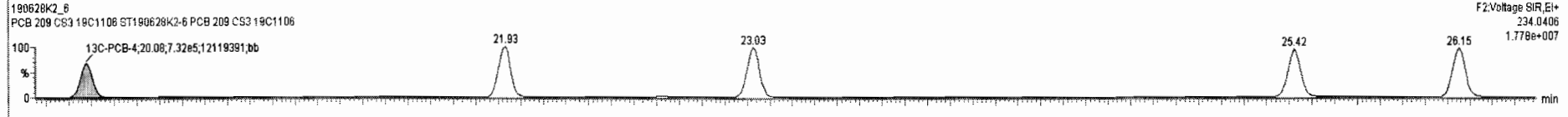
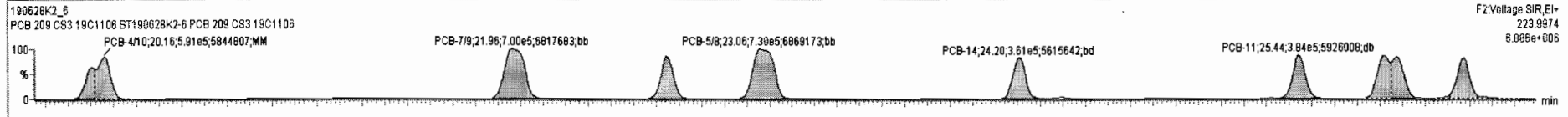
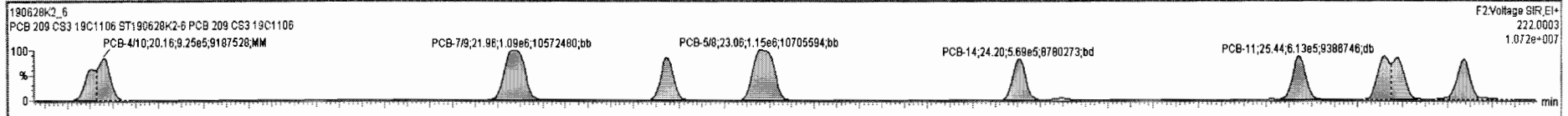


190628K2\_6



#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
223	223 13C-PCB-178	5.66e5	0.46	NO	0.9749	1.000	46.58	46.56	0.924	0.924	NO	102.1	102	0.0730	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	151.1		0.0261	151.1
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	611.1		0.222	611.1
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	404.6		0.0967	404.6
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	783.0		0.451	783.0
228	228 Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	2149		0.998	2149
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	2055		0.757	2055
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	256.8		0.173	256.8
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	705.2		0.281	705.3
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	1414		1.33	1414
233	233 Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	1229		0.858	1229
234	234 4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	451.8		0.214	451.8
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	150.1		0.0889	150.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	4 PCB-4/0	20.16	20.16	9.252e5	5.913e5	1.560	1.57	NO	100.88	100.88
2	5 PCB-7/8	21.99	21.96	1.090e6	7.004e5	1.560	1.56	NO	100.81	100.81
3	6 PCB-8	22.64	22.84	5.755e5	3.640e5	1.560	1.58	NO	50.777	50.777
4	7 PCB-5/8	23.06	23.06	1.148e6	7.301e5	1.560	1.57	NO	102.09	102.09
5	8 PCB-14	24.21	24.20	5.685e5	3.811e5	1.560	1.57	NO	51.341	51.341
6	9 PCB-11	25.44	25.44	6.133e5	3.836e5	1.560	1.60	NO	51.879	51.879
7	10 PCB-12/3	25.81	25.82	1.131e6	7.197e5	1.560	1.57	NO	101.81	101.81



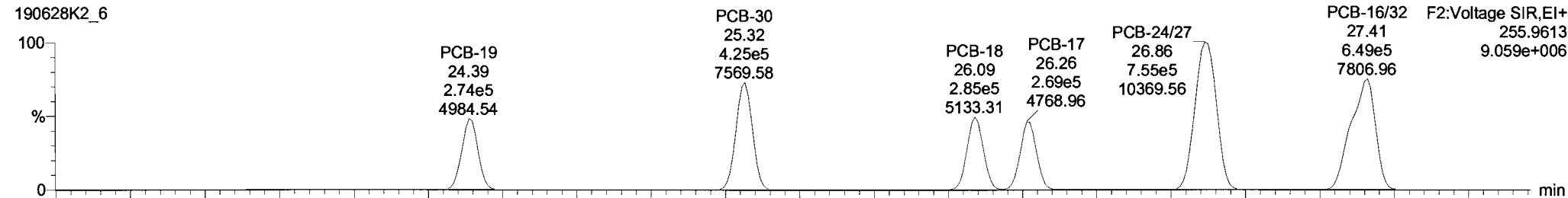
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Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

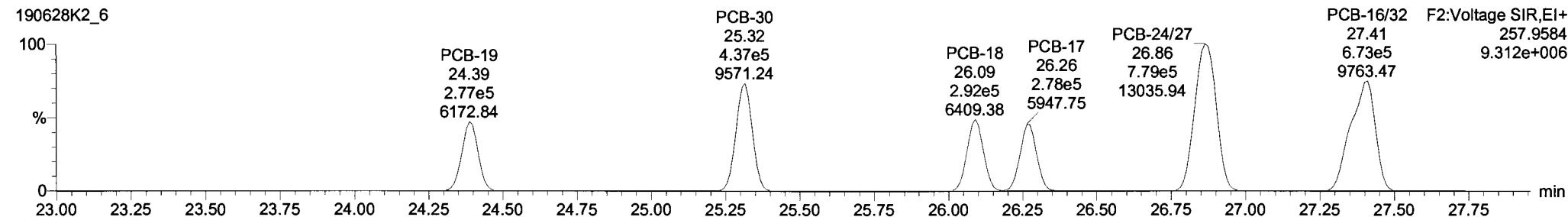
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**PCB-19**

190628K2\_6

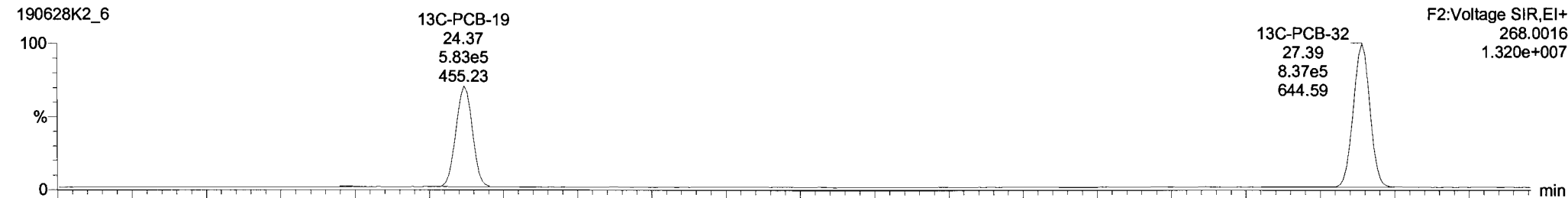


190628K2\_6

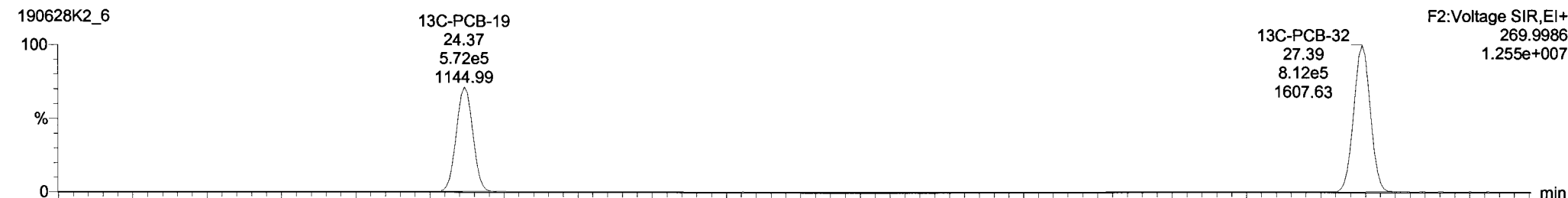


**13C-PCB-19**

190628K2\_6



190628K2\_6



Vista Analytical Laboratory VG-11

Dataset: Untitled

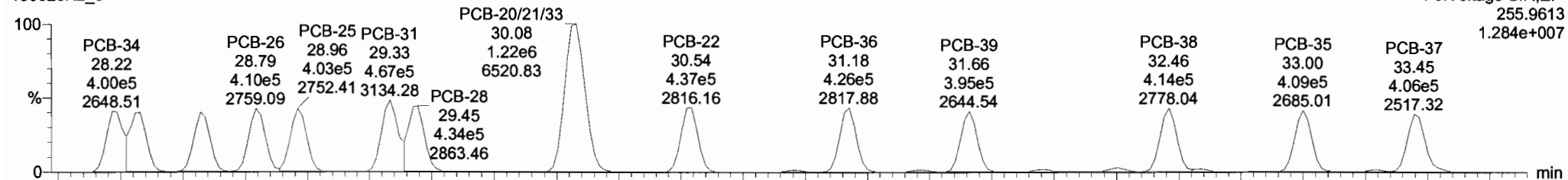
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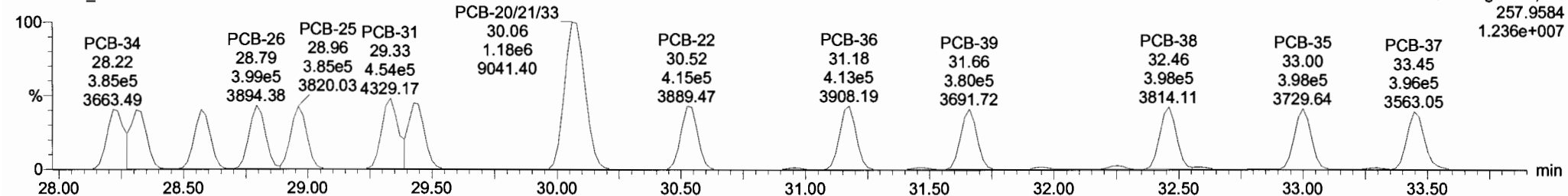
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PCB-34

190628K2\_6

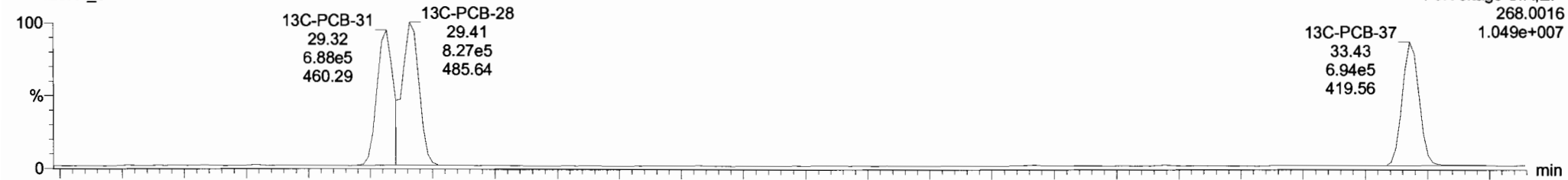


190628K2\_6

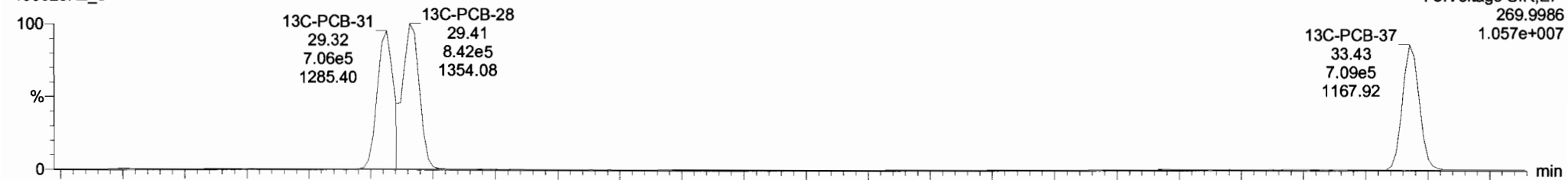


13C-PCB-28

190628K2\_6



190628K2\_6



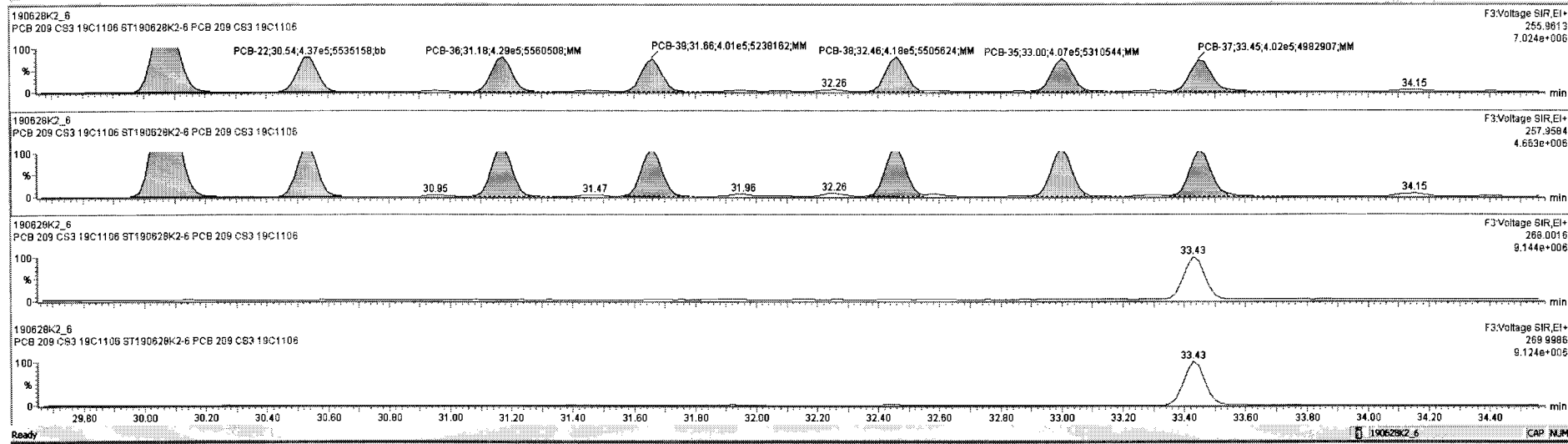
TargetLynx - 190628K2\_CRY.qld - [Chromatogram]

190628K2\_6 - ST190628K2-6 PCB 209 CS3 19C 1106 - PCB 209 CS3 19C 1106

#	Name	Resp	RA	nY	RRF	wt/Vol	Prod.RT	RT	Prod.R	RRT	RRT Fall	Conc.	%Rec	DL	EMPC
223	223 13C-PCB-178	5.66e5	0.46	NO	0.9749	1.000	46.58	46.56	0.924	0.924	NO	102.1	102	0.0730	
224	224 Total Mono-PCBs				1.0722	1.000	0.00	0.00	0.000		NO	151.1		0.0261	151.1
225	225 Total Di-PCBs				1.0592	1.000	0.00	0.00	0.000		NO	611.1		0.222	611.1
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00	0.00	0.000		NO	404.6		0.0967	404.6
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00	0.00	0.000		NO	783.0		0.451	783.0
228	228 Total Tetra-PCBs				0.9861	1.000	0.00	0.00	0.000		NO	2149		0.998	2149
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00	0.00	0.000		NO	2055		0.757	2055
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00	0.00	0.000		NO	256.8		0.173	256.8
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00	0.00	0.000		NO	705.2		0.281	705.3
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00	0.00	0.000		NO	1414		1.33	1414
233	233 Total Hepta-PCBs				1.2636	1.000	0.00	0.00	0.000		NO	1229		0.858	1229
234	234 4th Function Octa-PCBs				0.8863	1.000	0.00	0.00	0.000		NO	451.6		0.214	451.6
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00	0.00	0.000		NO	150.1		0.0869	150.1

#	Name	Prod.RT	RT	m1 Resp	m2 Resp	*% Ratio (Prod)	RA	nY	EMPC	Conc.
1	18 PCB-34	28.22	28.22	3.906e5	3.849e5	1.040	1.04	NO	47.599	47.599
2	19 PCB-23	28.31	28.33	3.968e5	3.761e5	1.040	1.05	NO	47.531	47.532
3	20 PCB-29	28.57	28.57	3.633e5	3.697e5	1.040	1.04	NO	47.318	47.317
4	21 PCB-26	28.79	28.79	4.103e5	3.989e5	1.040	1.03	NO	48.430	48.430
5	22 PCB-25	28.96	28.96	4.032e5	3.855e5	1.040	1.05	NO	48.314	48.314
6	23 PCB-31	29.31	29.33	4.671e5	4.538e5	1.040	1.03	NO	49.119	49.119
7	24 PCB-28	29.43	29.44	4.343e5	4.216e5	1.040	1.03	NO	46.367	46.367

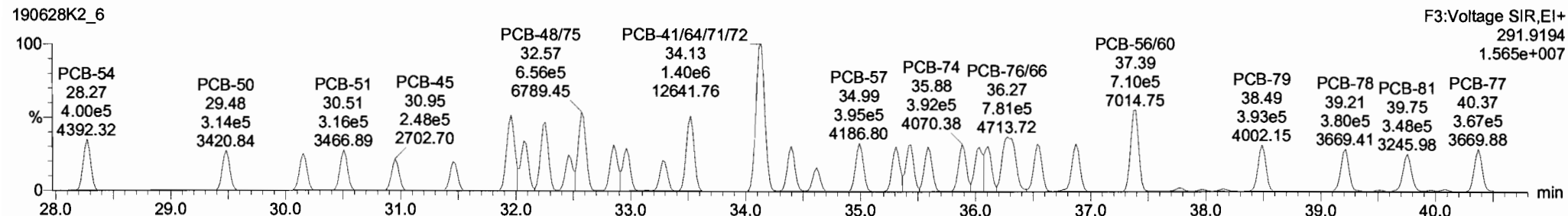
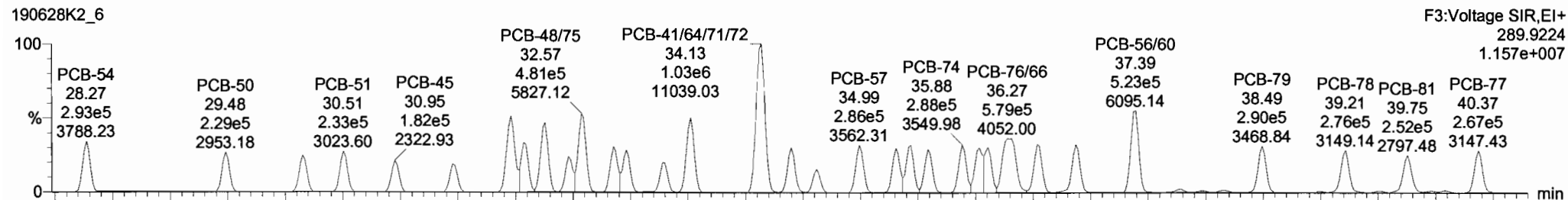


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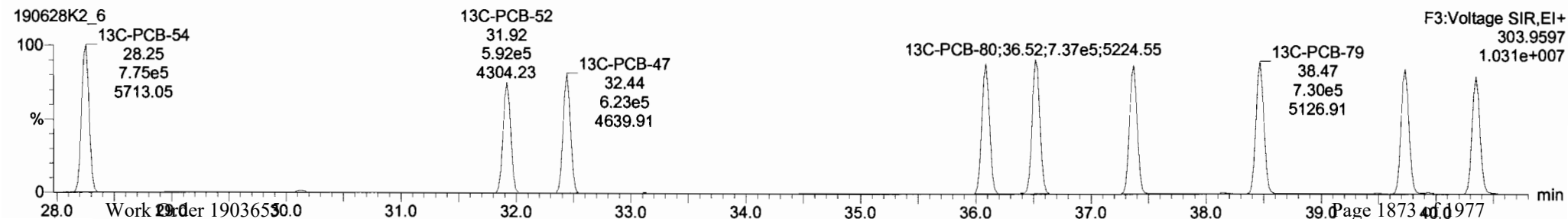
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Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_6, Date: 28-Jun-2019, Time: 21:41:21, ID: ST190628K2-6 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

PCB-54



13C-PCB-54

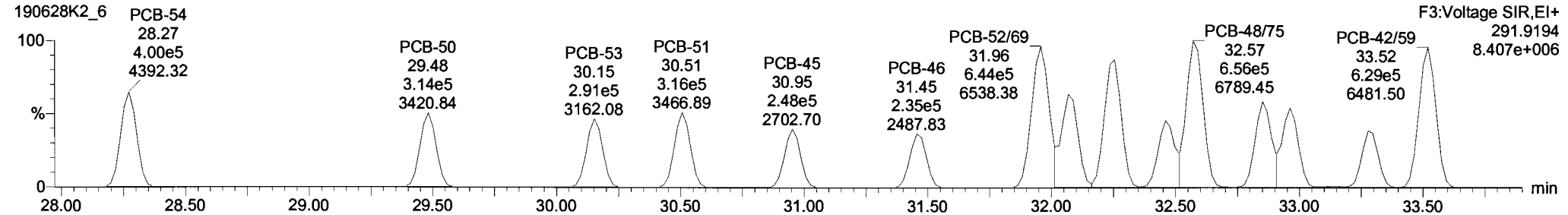
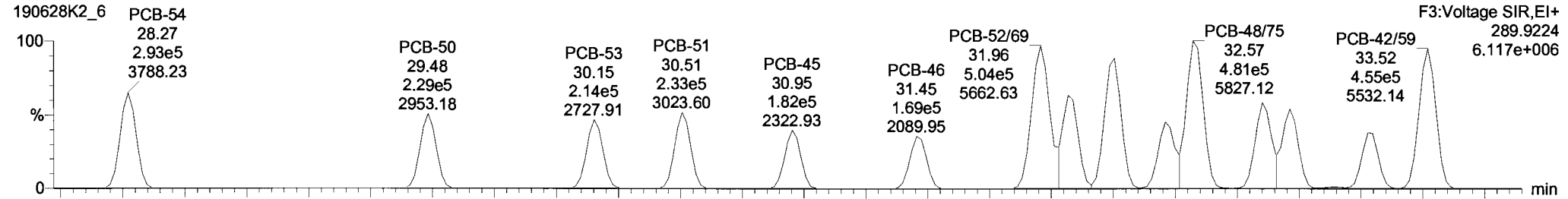


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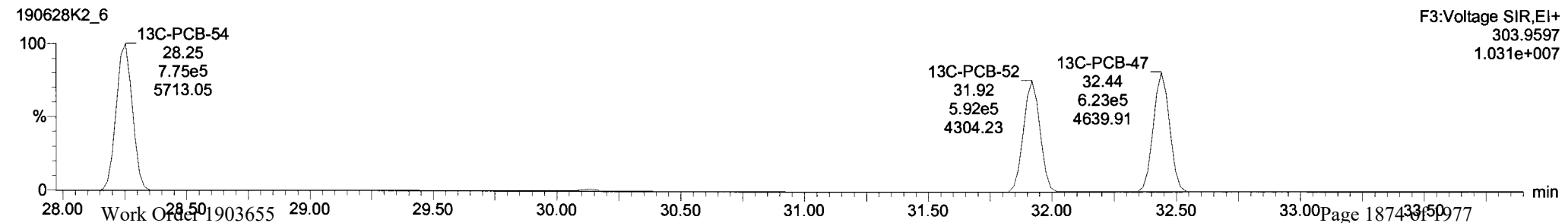
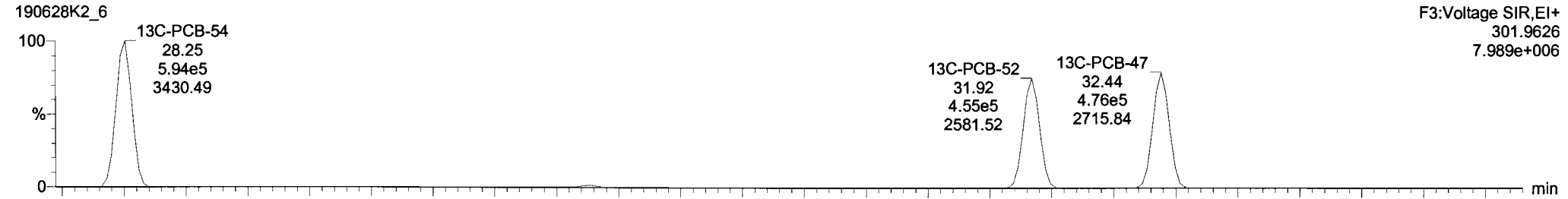
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Name: 190628K2\_6, Date: 28-Jun-2019, Time: 21:41:21, ID: ST190628K2-6 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-50**



**13C-PCB-52**

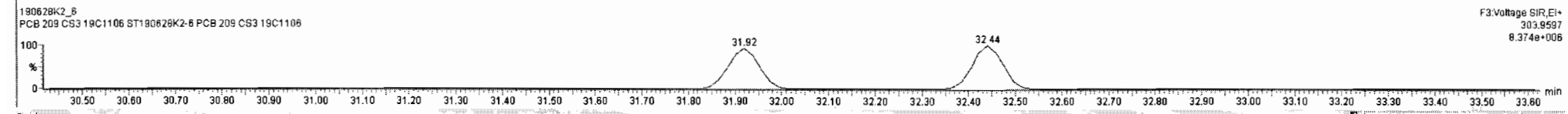
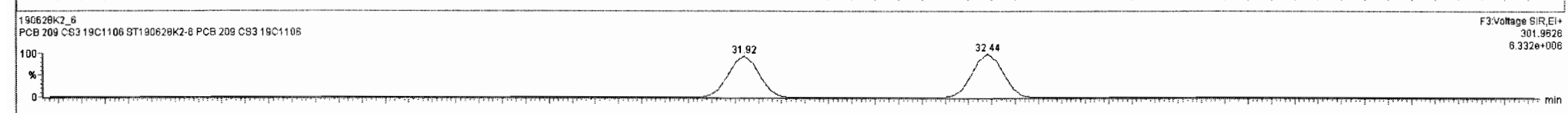
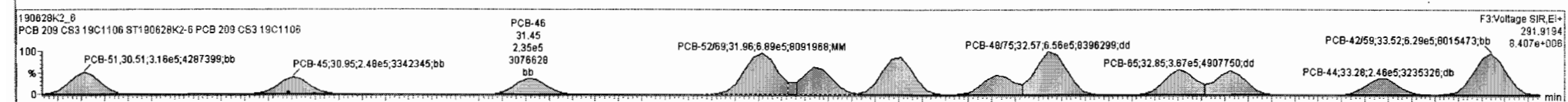
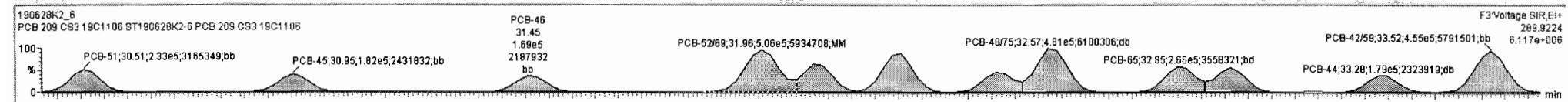




190628K2\_6 - ST190628K2-6 PCB 209 CS3 19C1106 - PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RT	RRT	RRT.Fall	Conc.	%Rec	DL	EMPC
223	223 13C-PCB-178	5.66e5	0.46	NO	0.9749	1.000	46.58	46.56	0.924	0.924	NO	102.1	102	0.0730	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	151.1		0.0281	151.1
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	611.1		0.222	611.1
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	404.6		0.0967	404.6
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	783.0		0.451	783.0
228	228 Total Tetra-PCBs				0.8861	1.000	0.00		0.000		NO	2149		0.998	2149
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	2055		0.757	2055
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	256.8		0.173	256.8
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	705.2		0.281	705.3
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	1414		1.33	1414
233	233 Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	1229		0.858	1229
234	234 4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	451.6		0.214	451.6
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	150.1		0.0869	150.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	% Ratio (Pred)	RA	n/y	EMPC	Conc.
1	32 PCB-54	28.27	28.27	2.928e5	3.999e5	0.770	0.73	NO	50.838	50.837
2	33 PCB-50	29.49	29.48	2.292e5	3.141e5	0.770	0.73	NO	50.822	50.822
3	34 PCB-53	30.16	30.15	2.143e5	2.907e5	0.770	0.74	NO	50.527	50.528
4	35 PCB-51	30.52	30.51	2.330e5	3.160e5	0.770	0.74	NO	51.248	51.248
5	36 PCB-45	30.96	30.95	1.820e5	2.481e5	0.770	0.73	NO	50.871	50.870
6	37 PCB-46	31.45	31.45	1.695e5	2.355e5	0.770	0.72	NO	51.351	51.351
7	38 PCB-52/69	31.96	31.96	5.057e5	6.892e5	0.770	0.73	NO	104.58	104.58



Dataset: Untitled

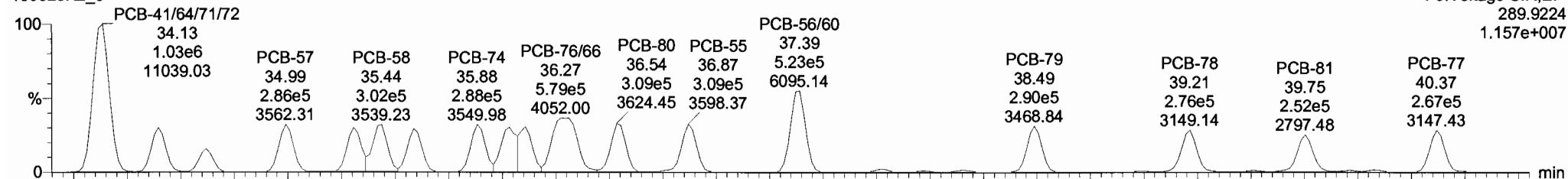
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Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

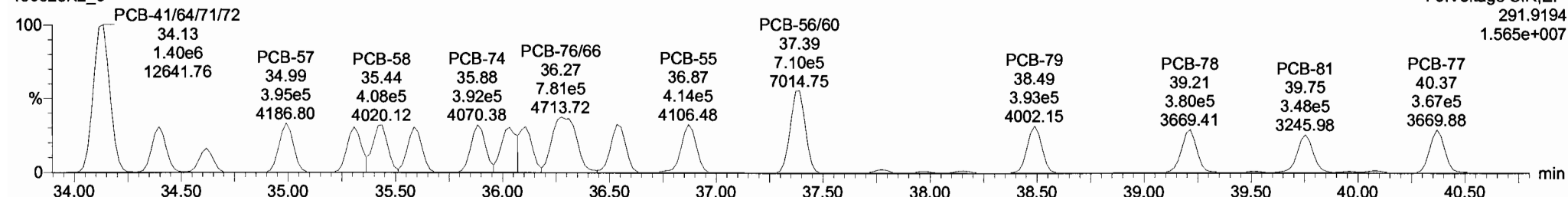
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**PCB-68**

190628K2\_6

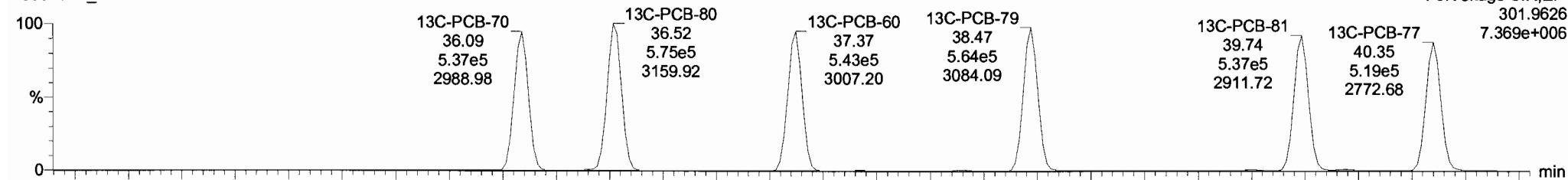


190628K2\_6

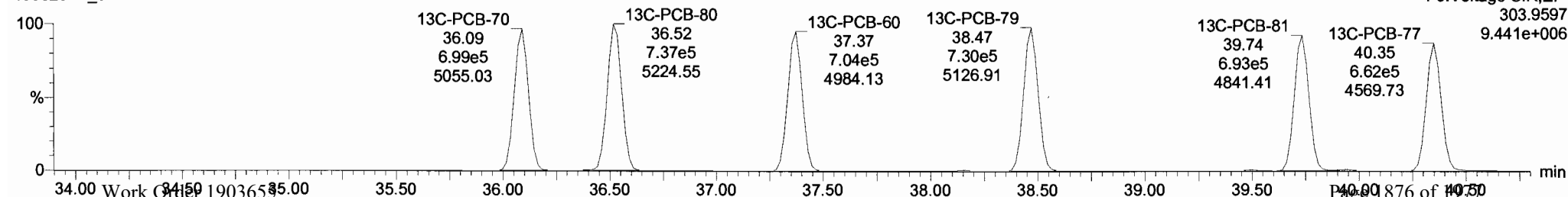


**13C-PCB-60**

190628K2\_6

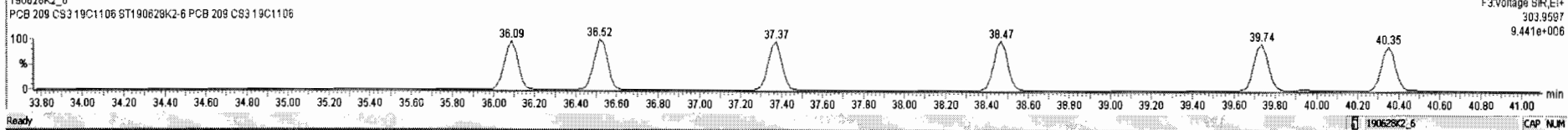
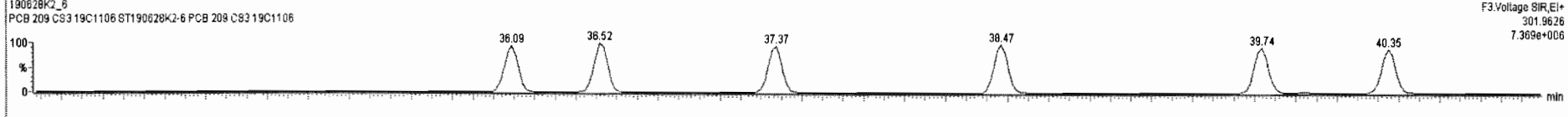
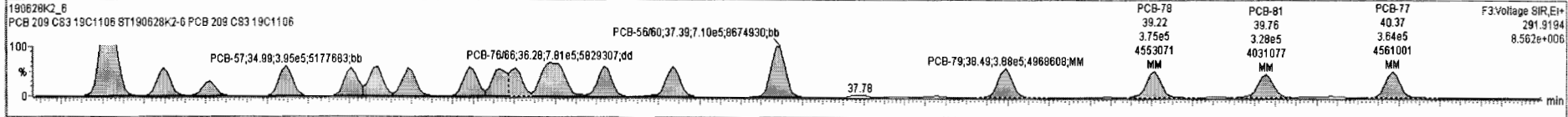
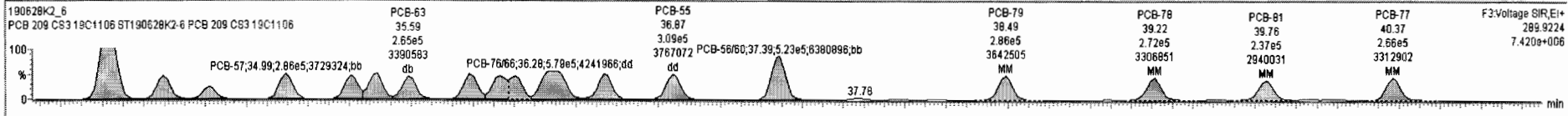


190628K2\_6



#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
223	223 13C-PCB-178	5.68e5	0.46	NO	0.9749	1.000	46.58	46.56	0.924	0.924	NO	102.1	102	0.0730	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	151.1		0.0261	151.1
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	811.1		0.222	811.1
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	404.6		0.0987	404.6
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	783.0		0.451	783.0
228	228 Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	2149		0.998	2149
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	2055		0.757	2055
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	258.8		0.173	258.8
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	705.2		0.281	705.3
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	1414		1.33	1414
233	233 Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	1229		0.858	1229
234	234 4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	451.6		0.214	451.6
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	150.1		0.0869	150.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	32 PCB-54	28.27	28.27	2.928e5	3.999e5	0.770	0.73	NO	50.838	50.837
2	33 PCB-50	29.49	29.48	2.282e5	3.141e5	0.770	0.73	NO	50.822	50.822
3	34 PCB-53	30.16	30.15	2.143e5	2.907e5	0.770	0.74	NO	50.527	50.528
4	35 PCB-51	30.52	30.51	2.300e5	3.160e5	0.770	0.74	NO	51.248	51.248
5	36 PCB-45	30.98	30.95	1.820e5	2.481e5	0.770	0.73	NO	50.871	50.870
6	37 PCB-46	31.45	31.45	1.695e5	2.355e5	0.770	0.72	NO	51.351	51.351
7	38 PCB-52/69	31.96	31.96	5.057e5	6.892e5	0.770	0.73	NO	104.58	104.58



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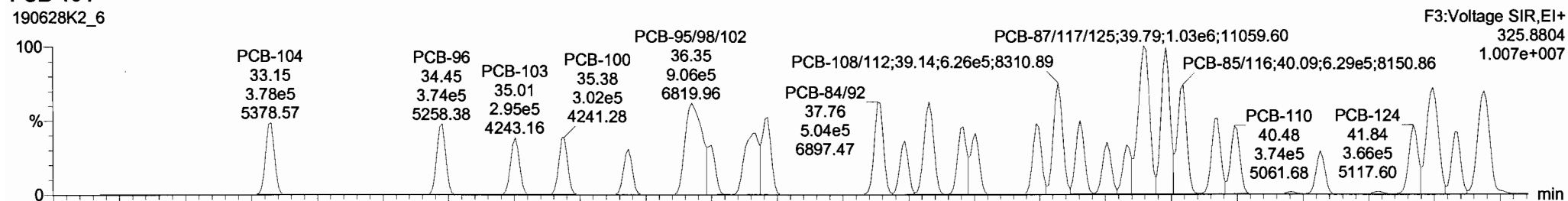
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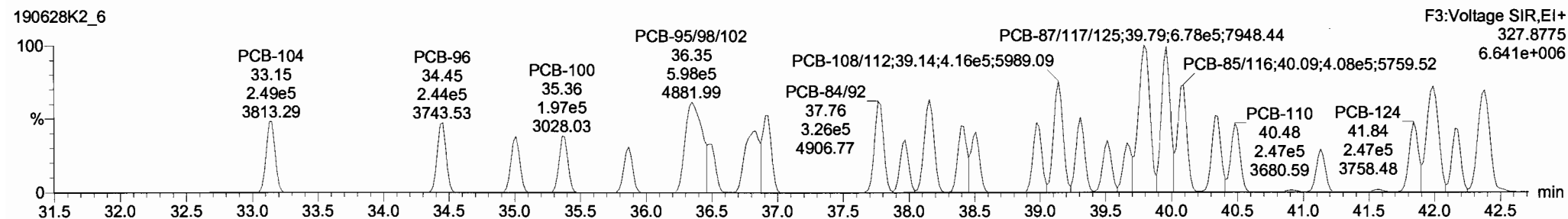
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**PCB-104**

190628K2\_6

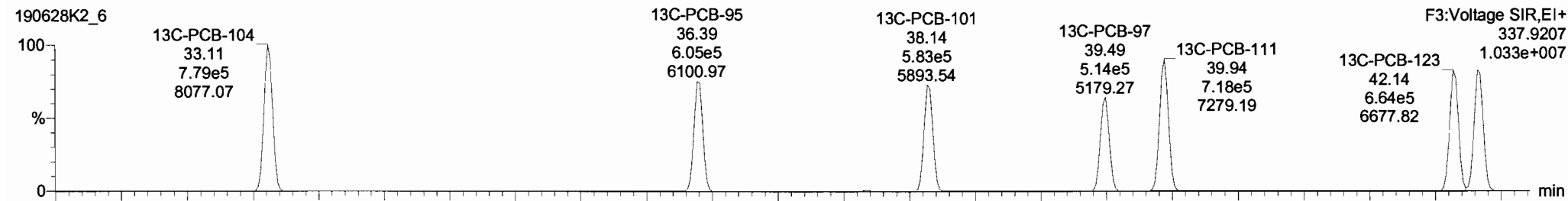


190628K2\_6

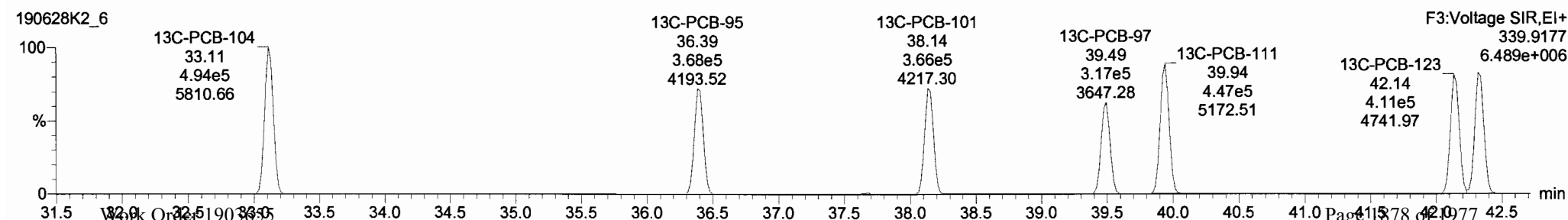


**13C-PCB-104**

190628K2\_6

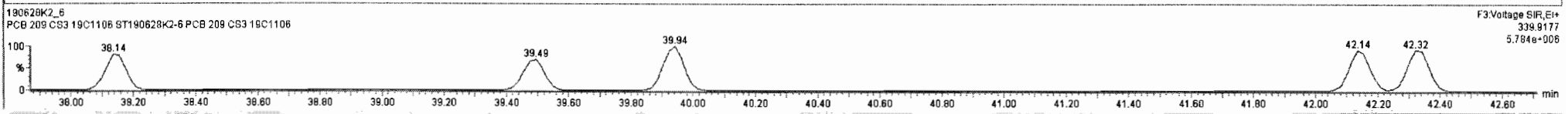
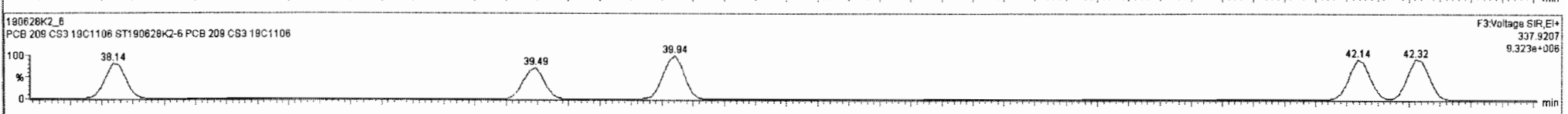
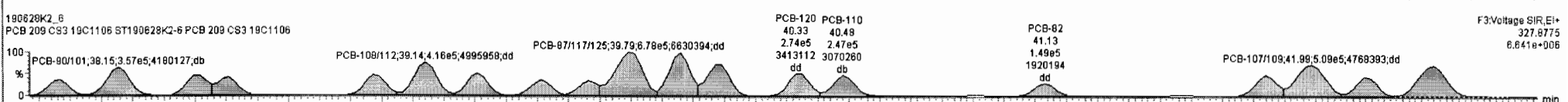
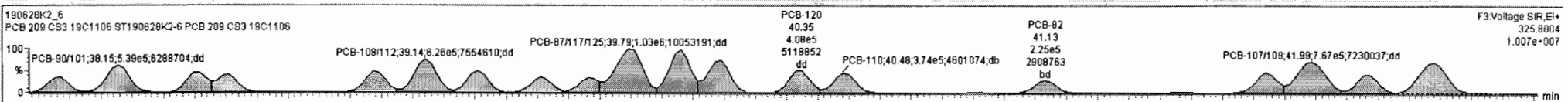


190628K2\_6



#	Name	Resp	RA	n/N	RFI	wt/Vol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
223	223 13C-PCB-17B	5.56e5	0.46	NO	0.9749	1.000	46.58	46.58	0.924	0.924	NO	102.1	102	0.0730	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	151.1		0.0261	151.1
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	611.1		0.222	611.1
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	404.6		0.0967	404.6
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	783.0		0.451	783.0
228	228 Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	2149		0.998	2149
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	2055		0.757	2055
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	256.8		0.173	256.8
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	705.2		0.261	705.2
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	1414		1.33	1414
233	233 Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	1229		0.858	1229
234	234 4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	451.6		0.214	451.6
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	150.1		0.0869	150.1

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/N	EMPC	Conc
64	PCB-104	33.13	33.15	3.781e5	2.491e5	1.560	1.52	NO	49.515	49.514
65	PCB-96	34.45	34.45	3.738e5	2.445e5	1.560	1.53	NO	48.755	48.755
66	PCB-103	35.01	35.01	2.950e5	1.926e5	1.560	1.53	NO	49.443	49.443
67	PCB-100	35.38	35.38	3.019e5	1.968e5	1.560	1.53	NO	50.359	50.359
68	PCB-94	35.87	35.87	2.342e5	1.553e5	1.560	1.51	NO	51.739	51.739
69	PCB-95/98/102	36.36	36.35	9.063e5	5.984e5	1.560	1.51	NO	152.36	152.36
70	PCB-93	36.49	36.50	2.414e5	1.584e5	1.560	1.54	NO	48.600	48.600



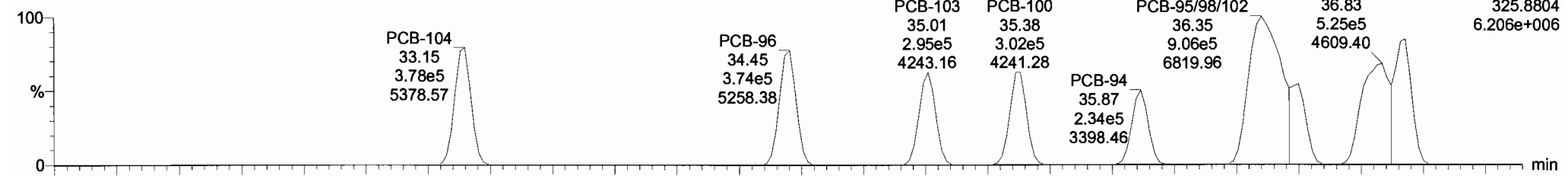
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Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

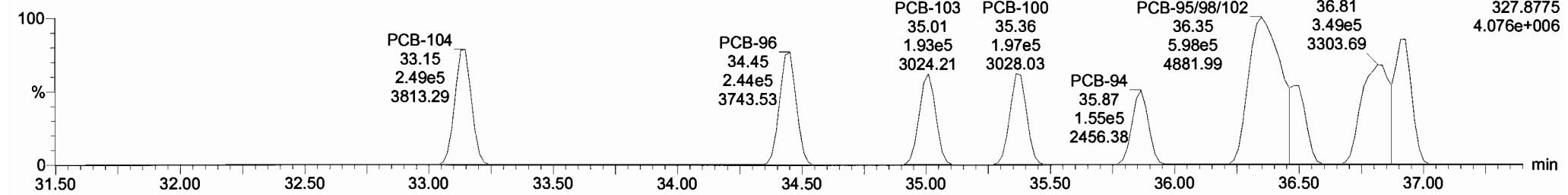
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**PCB-96**

190628K2\_6

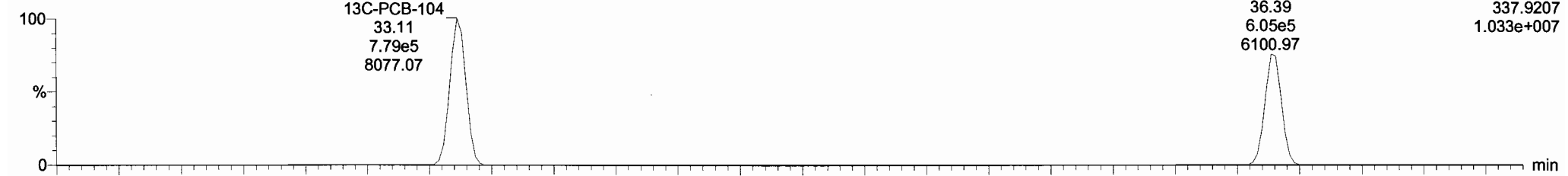


190628K2\_6

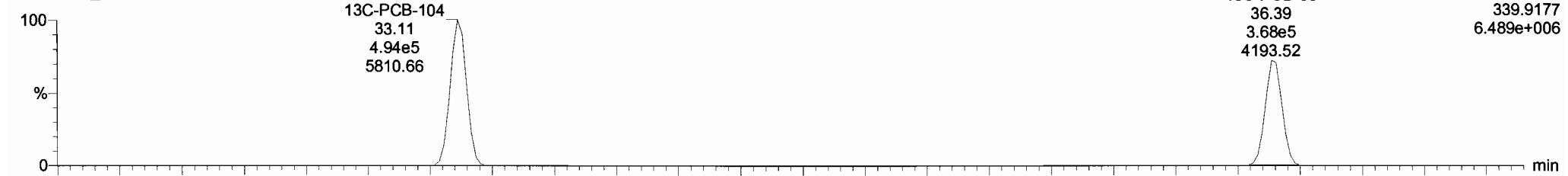


**13C-PCB-95**

190628K2\_6



190628K2\_6



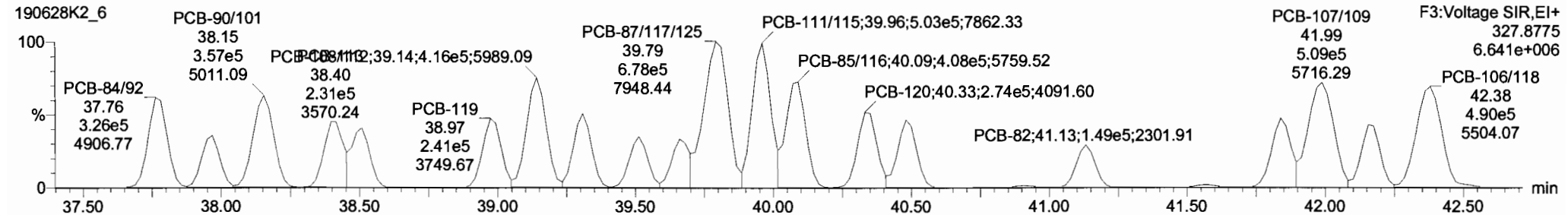
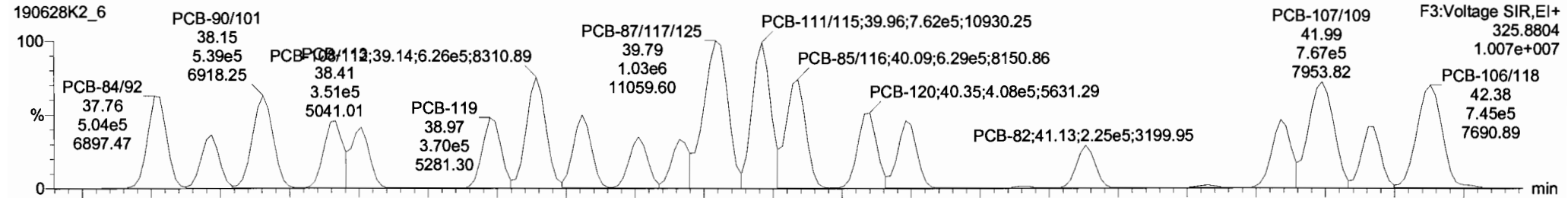
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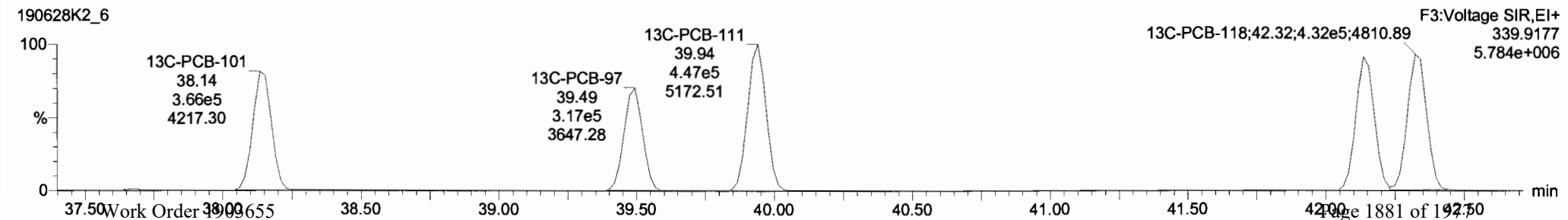
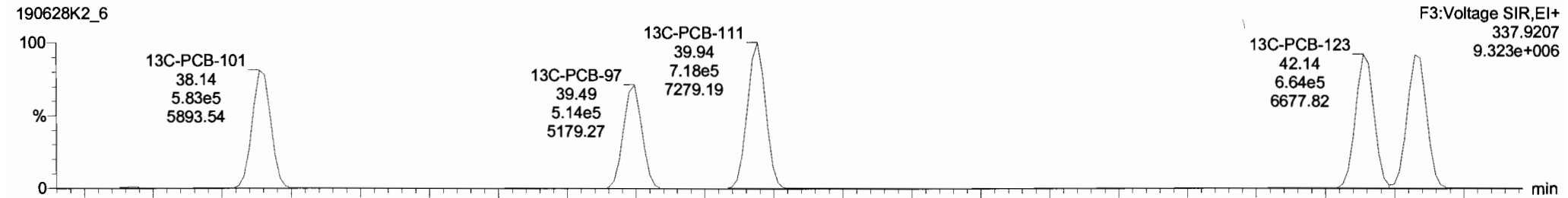
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Name: 190628K2\_6, Date: 28-Jun-2019, Time: 21:41:21, ID: ST190628K2-6 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-119**



**13C-PCB-111**



Vista Analytical Laboratory VG-11

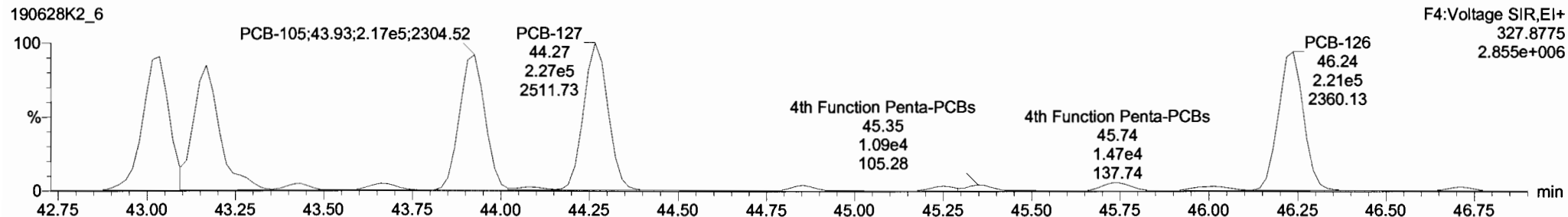
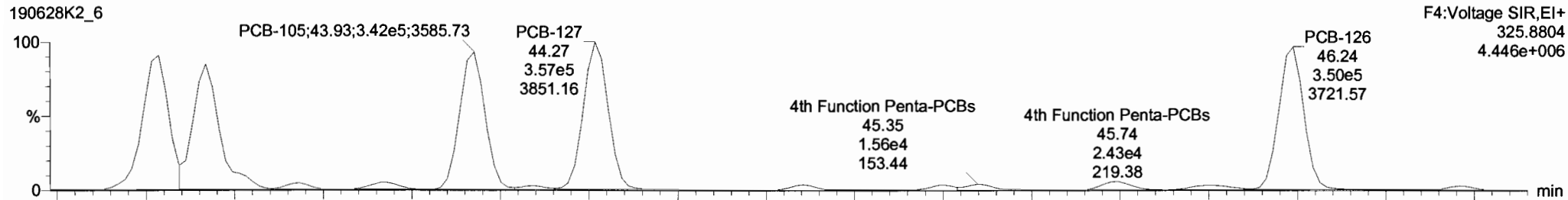
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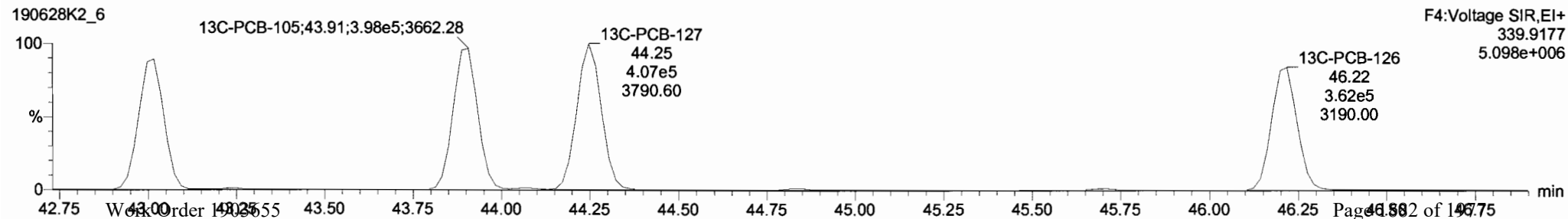
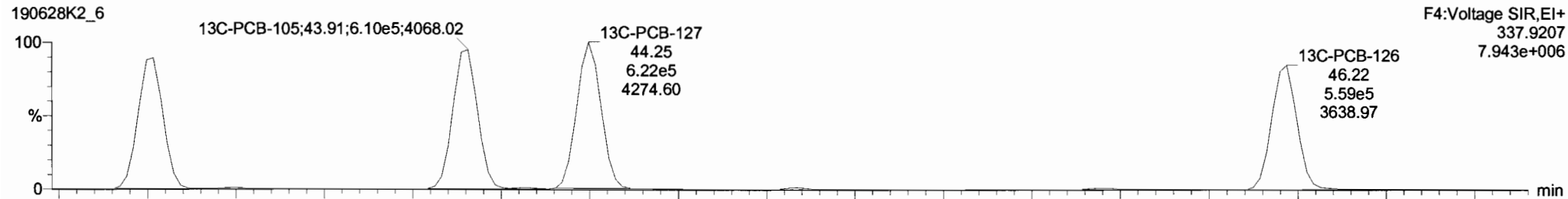
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Name: 190628K2\_6, Date: 28-Jun-2019, Time: 21:41:21, ID: ST190628K2-6 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

PCB-114



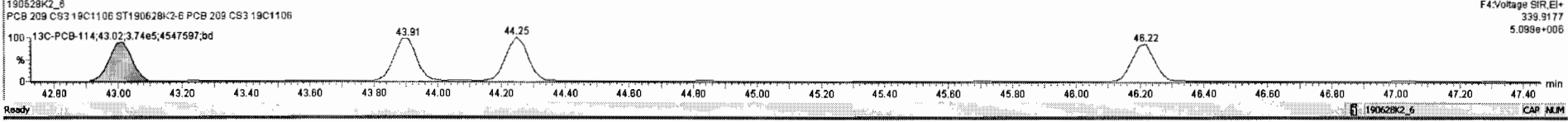
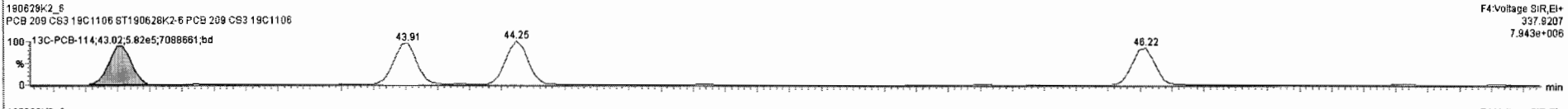
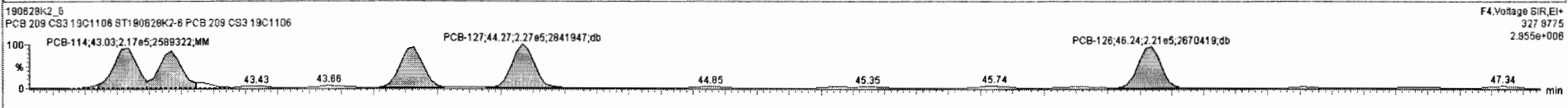
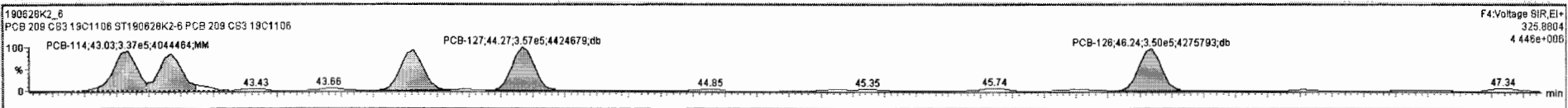
13C-PCB-114





#	Name	Resp	RA	n/y	RRF	wVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
223	223 13C-PCB-176	5.88e5	0.46	NO	0.9749	1.000	46.58	46.56	0.924	0.924	NO	102.1	102	0.0730	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	151.1		0.0261	151.1
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	811.1		0.222	811.1
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	404.6		0.0967	404.6
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	783.0		0.451	783.0
228	228 Total Tetra-PCBs				0.9661	1.000	0.00		0.000		NO	2149		0.996	2149
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	2055		0.757	2055
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	258.8		0.173	258.8
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	705.2		0.281	705.3
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	1414		1.33	1414
233	233 Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	1229		0.656	1229
234	234 4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	451.6		0.214	451.6
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	150.1		0.0869	150.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	93 PCB-114	43.04	43.03	3.365e5	2.173e5	1.560	1.55	NO	49.903	49.902
2	94 PCB-122	43.17	43.17	3.080e5	1.956e5	1.560	1.58	NO	54.279	54.279
3	95 PCB-105	43.92	43.93	3.417e5	2.172e5	1.560	1.57	NO	50.386	50.386
4	96 PCB-127	44.27	44.27	3.571e5	2.266e5	1.580	1.58	NO	51.159	51.159
5	97 PCB-126	46.24	46.24	3.501e5	2.209e5	1.560	1.59	NO	51.112	51.112



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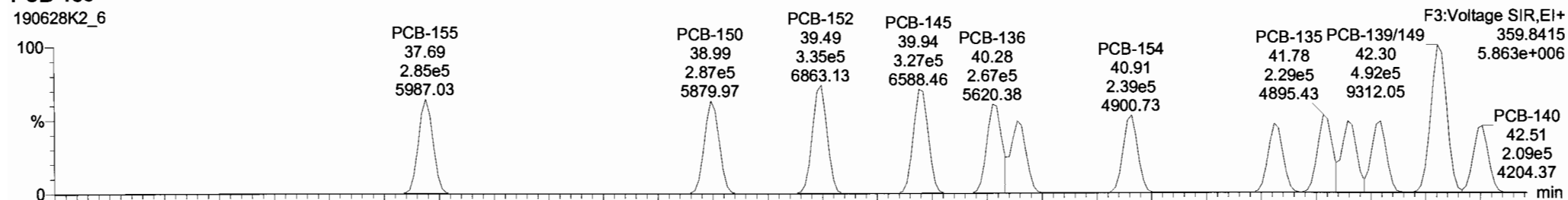
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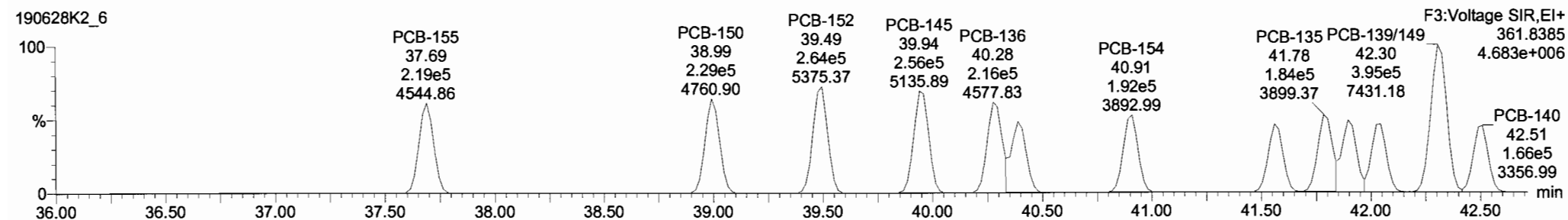
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### PCB-155

190628K2\_6

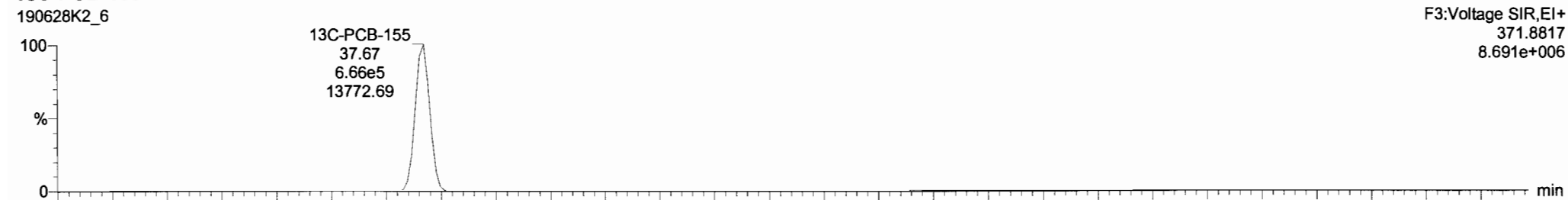


190628K2\_6

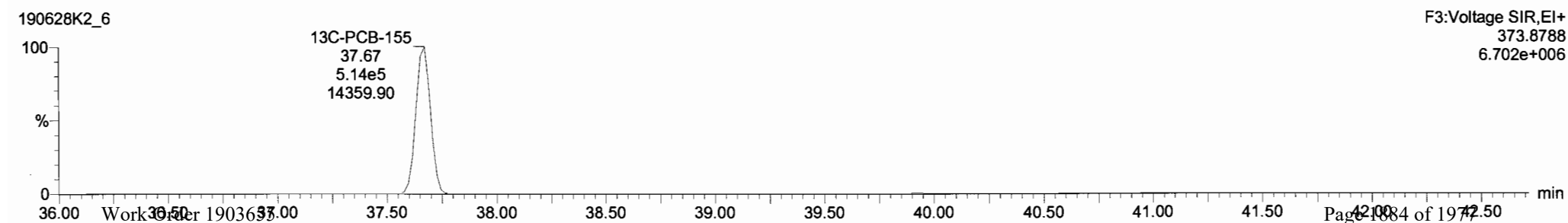


### 13C-PCB-155

190628K2\_6



190628K2\_6

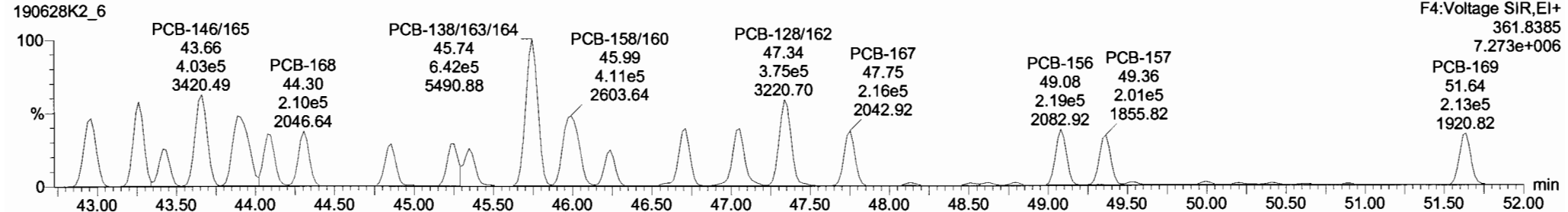
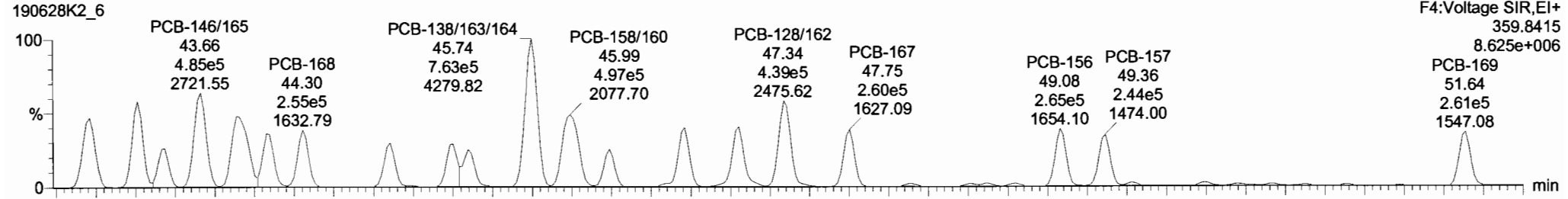


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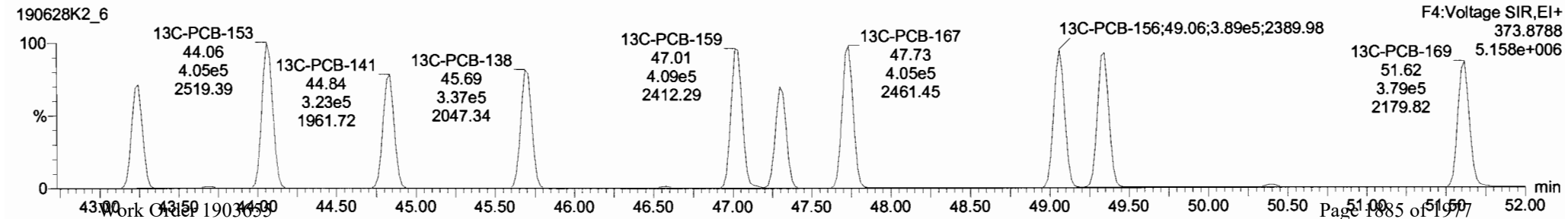
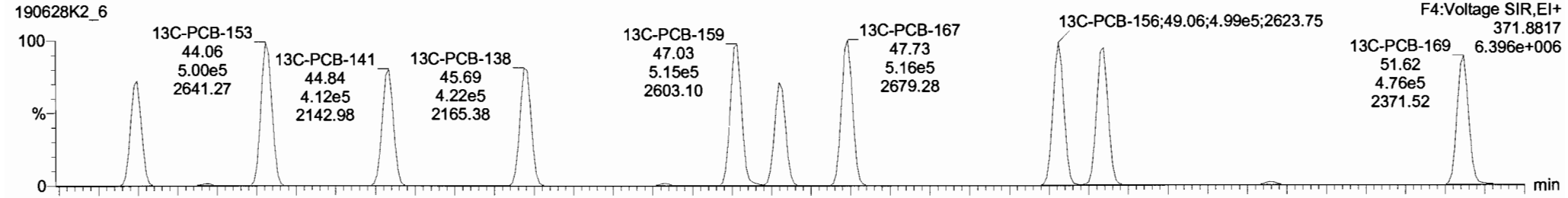
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PCB-134/143



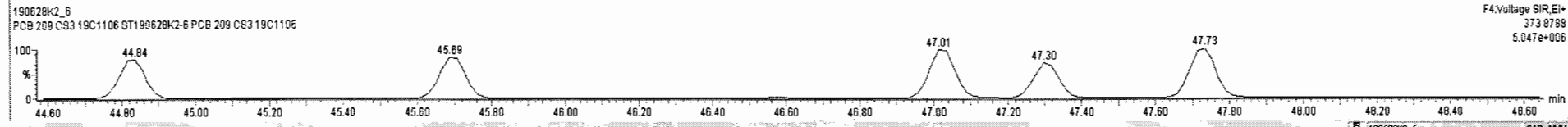
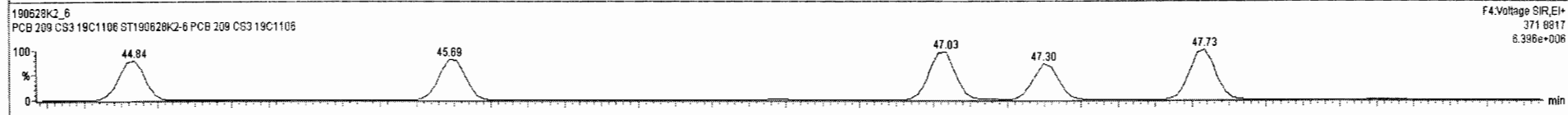
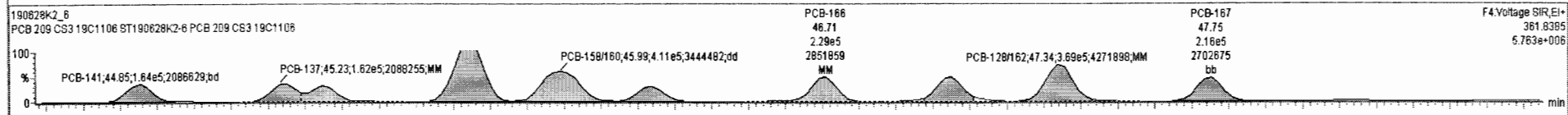
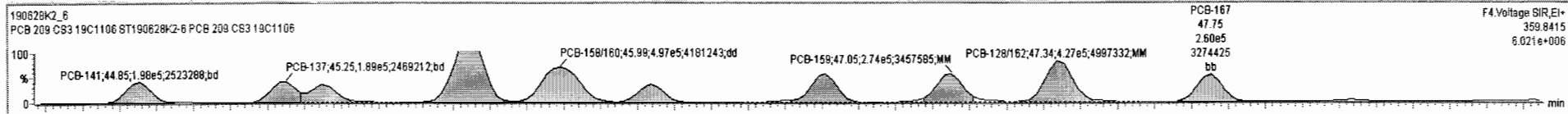
13C-PCB-153



190628K2\_6-ST190628K2-6-PCB 209 CS3 19C1106 - PCB 209 CS3 19C1106

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
223	223 13C-PCB-178	5.66e5	0.46	NO	0.9749	1.000	46.58	46.58	0.924	0.924	NO	102.1	102	0.0730	
224	224 Total Mono-PCBs				1.0122	1.000	0.00	0.00	0.000	0.000	NO	151.1	0.0261	151.1	
225	225 Total Di-PCBs				1.0592	1.000	0.00	0.00	0.000	0.000	NO	611.1	0.222	611.1	
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00	0.00	0.000	0.000	NO	404.6	0.0967	404.6	
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00	0.00	0.000	0.000	NO	783.0	0.451	783.0	
228	228 Total Tetra-PCBs				0.9861	1.000	0.00	0.00	0.000	0.000	NO	2149	0.988	2149	
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00	0.00	0.000	0.000	NO	2055	0.757	2055	
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00	0.00	0.000	0.000	NO	256.8	0.173	256.8	
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00	0.00	0.000	0.000	NO	705.2	0.261	705.3	
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00	0.00	0.000	0.000	NO	1414	1.33	1414	
233	233 Total Hepta-PCBs				1.2636	1.000	0.00	0.00	0.000	0.000	NO	1229	0.858	1229	
234	234 4th Function Octa-PCBs				0.8963	1.000	0.00	0.00	0.000	0.000	NO	451.6	0.214	451.6	
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00	0.00	0.000	0.000	NO	150.1	0.0869	150.1	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1:1 Ratio (Pred)	RA	n/y	EMPC	Conc.
1	111 PCB-134/143	42.94	42.96	3.648e5	3.050e5	1.240	1.20	NO	100.98	100.98
2	112 PCB-131/133	43.24	43.26	3.915e5	3.235e5	1.240	1.21	NO	100.05	100.05
3	113 PCB-142	43.43	43.43	1.749e5	1.486e5	1.240	1.18	NO	50.515	50.515
4	114 PCB-146/165	43.64	43.66	4.850e5	4.032e5	1.240	1.20	NO	102.35	102.35
5	115 PCB-132/161	43.89	43.89	4.905e5	4.136e5	1.240	1.19	NO	102.58	102.58
6	116 PCB-153	44.06	44.08	2.508e5	2.062e5	1.240	1.21	NO	50.140	50.140
7	117 PCB-168	44.28	44.31	2.550e5	2.104e5	1.240	1.21	NO	50.470	50.470

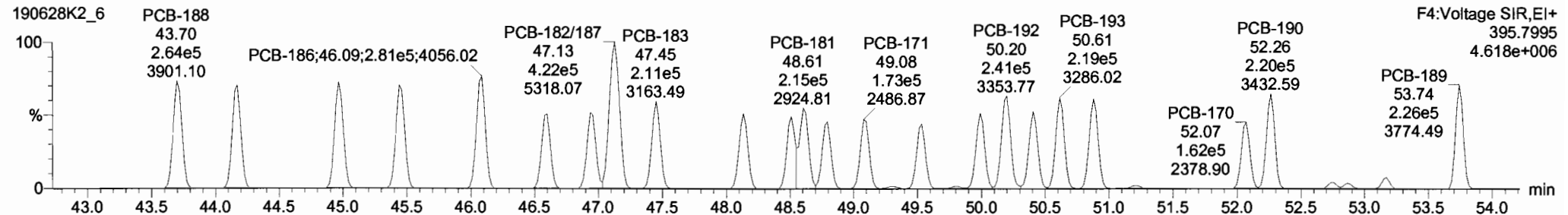
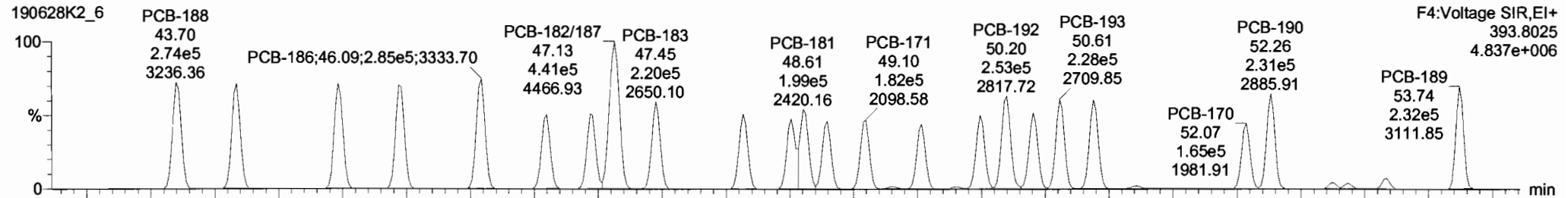


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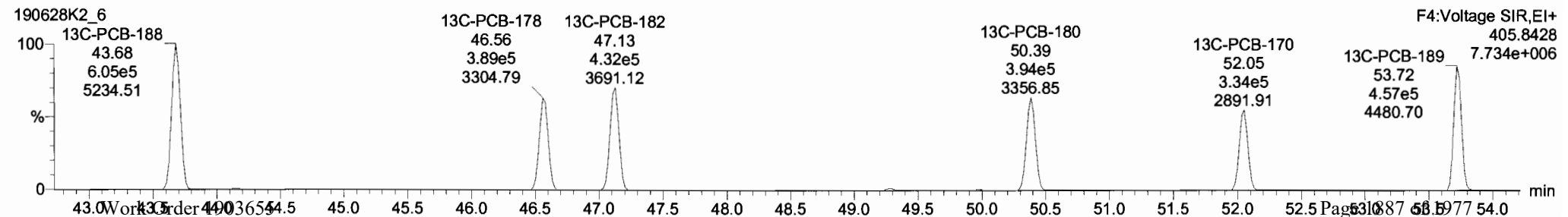
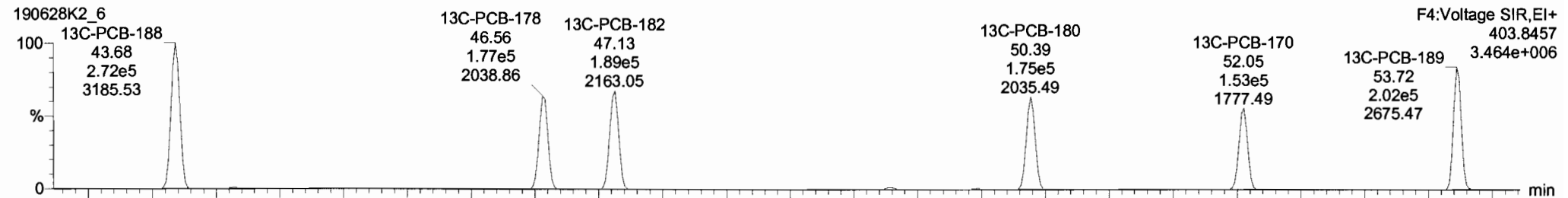
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Name: 190628K2\_6, Date: 28-Jun-2019, Time: 21:41:21, ID: ST190628K2-6 PCB 209 CS3 19C1106, Description: PCB 209 CS3 19C1106

**PCB-188**

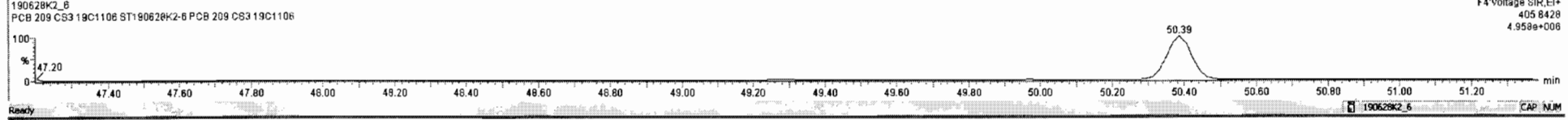
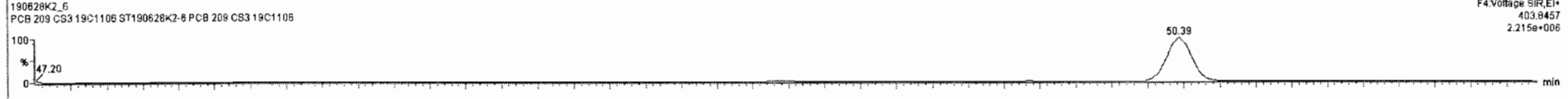
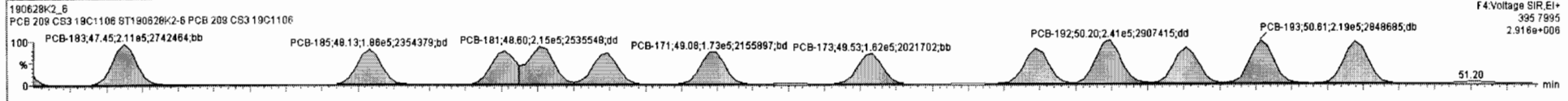
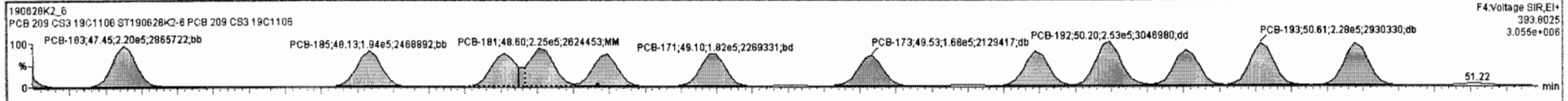


**13C-PCB-188**



#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Prod.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
223	223 13C-PCB-178	5.66e5	0.46	NO	0.9749	1.000	46.58	46.58	0.924	0.924	NO	102.1	102	0.0730	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	151.1		0.0261	151.1
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	611.1		0.222	611.1
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	404.6		0.0967	404.6
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	783.0		0.451	783.0
228	228 Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	2149		0.598	2149
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	2055		0.757	2055
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	258.8		0.173	258.8
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	705.2		0.281	705.3
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	1414		1.33	1414
233	233 Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	1229		0.858	1229
234	234 4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	451.6		0.214	451.6
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	150.1		0.0869	150.1

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1% Ratio (Pred)	RA	n/y	EMPC	Conc.
1	131 PCB-188	43.72	43.70	2.739e5	2.635e5	1.050	1.04	NO	51.300	51.299
2	132 PCB-184	44.17	44.17	2.589e5	2.587e5	1.050	1.05	NO	51.314	51.313
3	133 PCB-179	44.96	44.97	2.890e5	2.607e5	1.050	1.03	NO	51.293	51.293
4	134 PCB-178	45.45	45.44	2.722e5	2.585e5	1.050	1.05	NO	52.146	52.147
5	135 PCB-186	46.07	46.08	2.848e5	2.808e5	1.050	1.01	NO	52.893	52.893
6	136 PCB-178	46.59	46.60	1.917e5	1.864e5	1.050	1.03	NO	51.852	51.852
7	137 PCB-175	46.95	46.94	1.998e5	1.949e5	1.050	1.02	NO	52.963	52.962



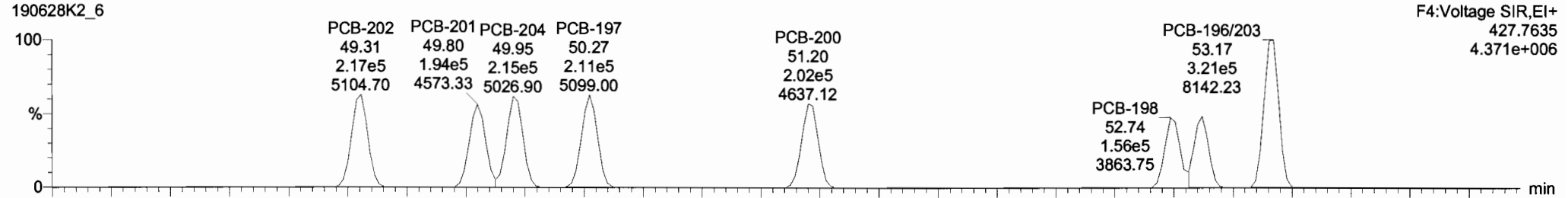
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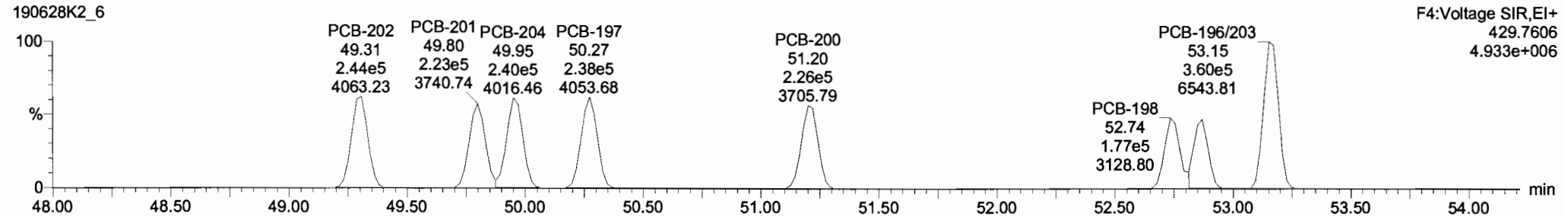
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PCB-202

190628K2\_6

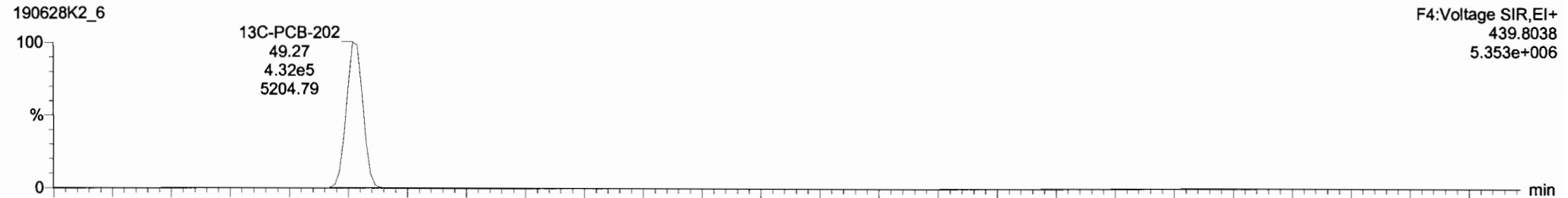


190628K2\_6

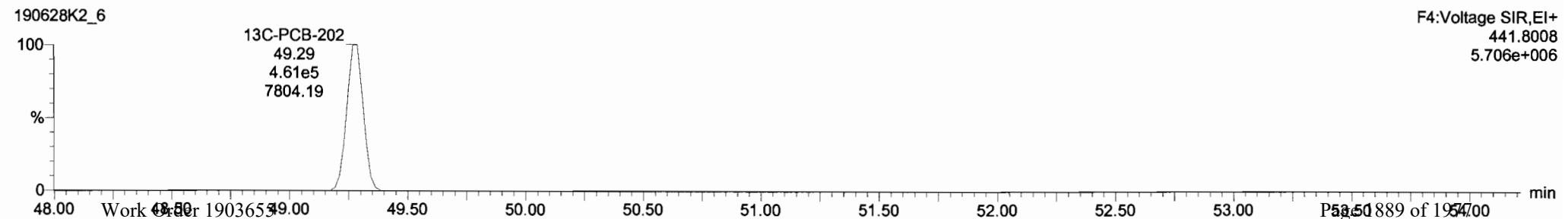


13C-PCB-202

190628K2\_6



190628K2\_6

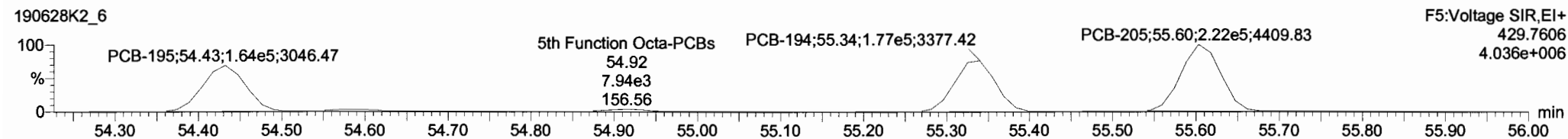
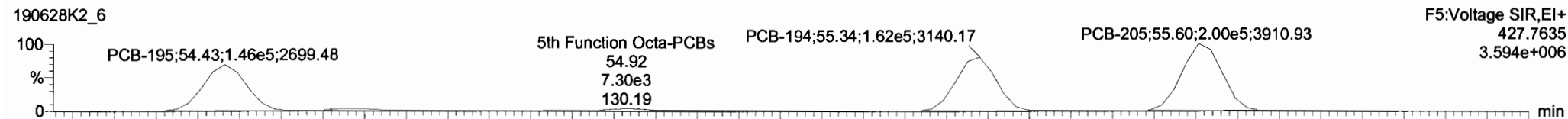


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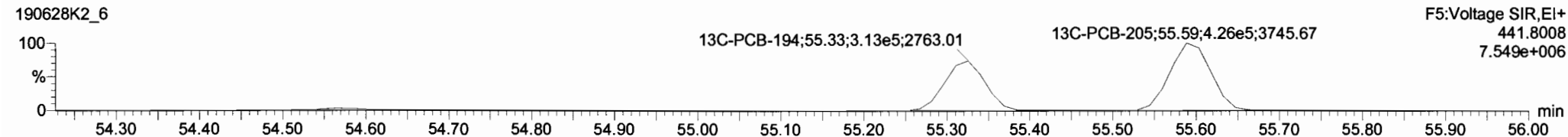
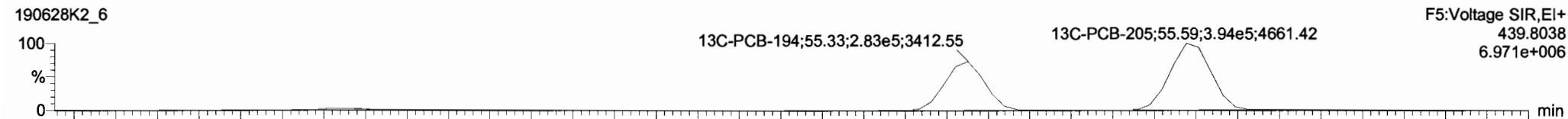
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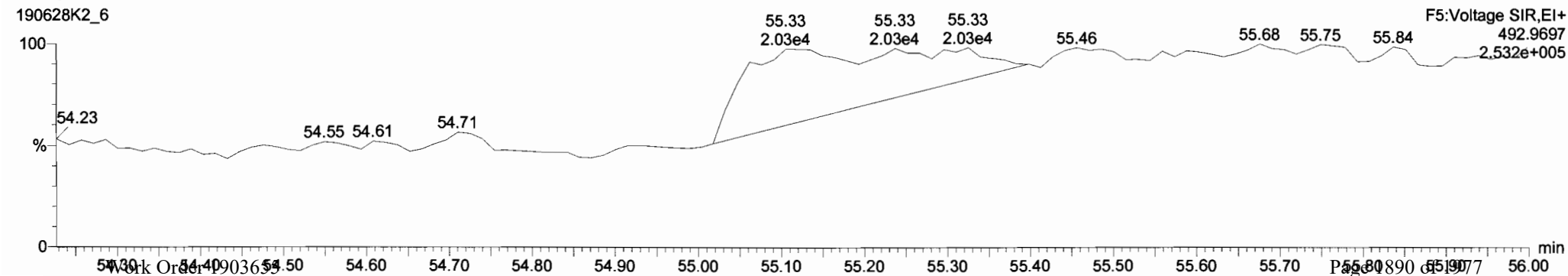
**PCB-195**



**13C-PCB-194**



**PFK5**



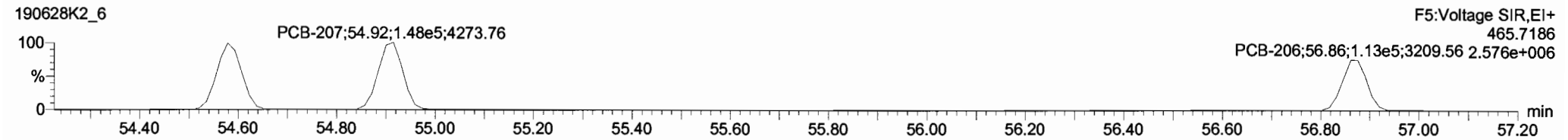
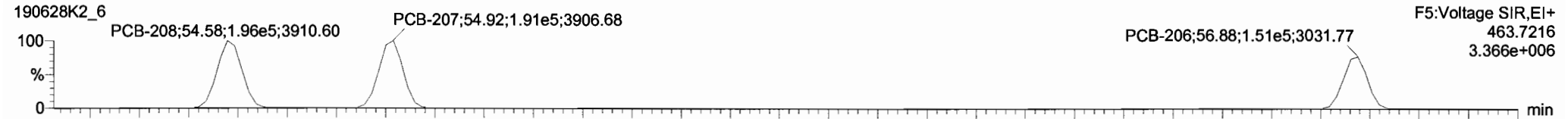


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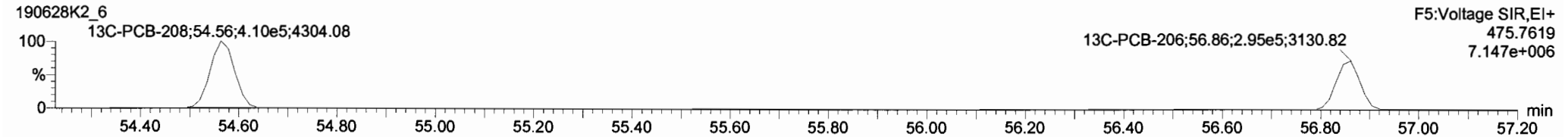
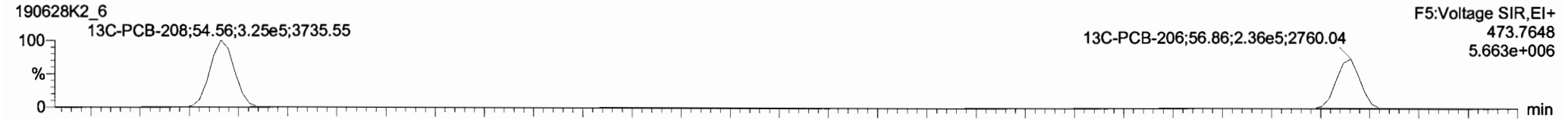
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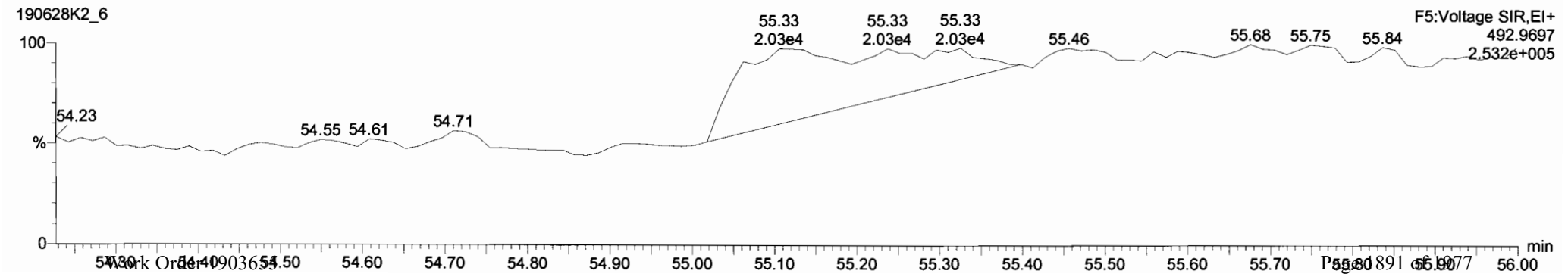
**PCB-208**



**13C-PCB-208**



**PFK5**



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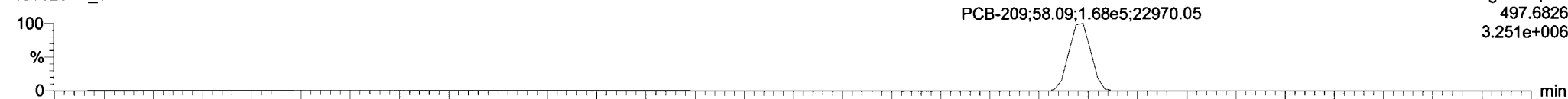
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### PCB-209

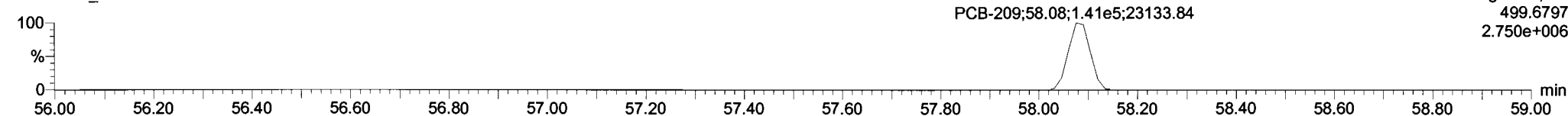
190628K2\_6

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3.251e+006



190628K2\_6

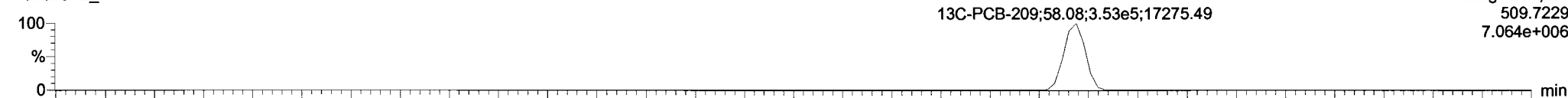
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2.750e+006



### 13C-PCB-209

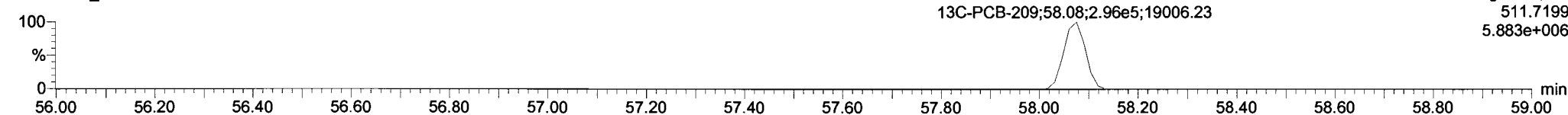
190628K2\_6

F5:Voltage SIR,EI+  
509.7229  
7.064e+006



190628K2\_6

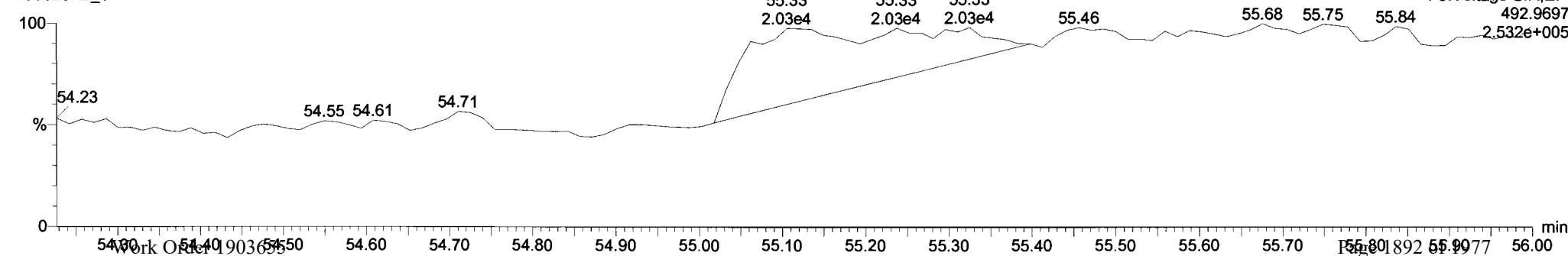
F5:Voltage SIR,EI+  
511.7199  
5.883e+006



### PFK5

190628K2\_6

F5:Voltage SIR,EI+  
492.9697  
2.532e+005

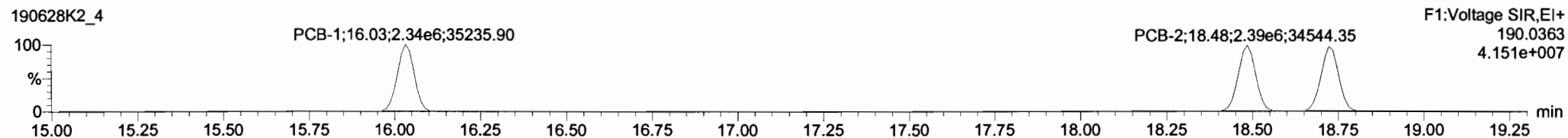
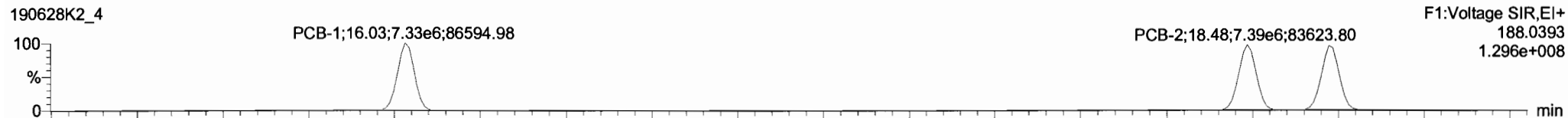


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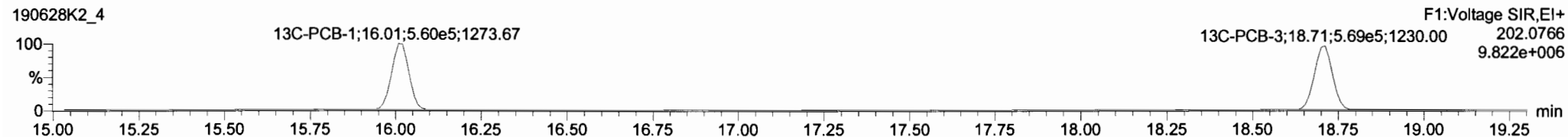
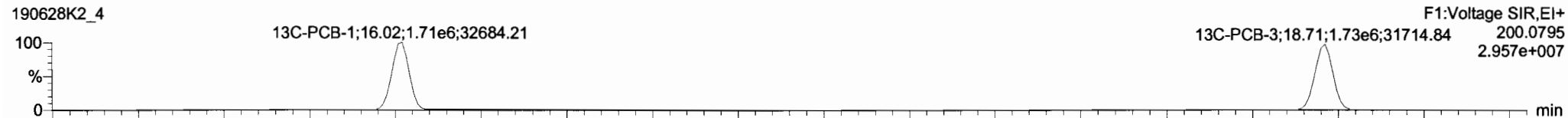
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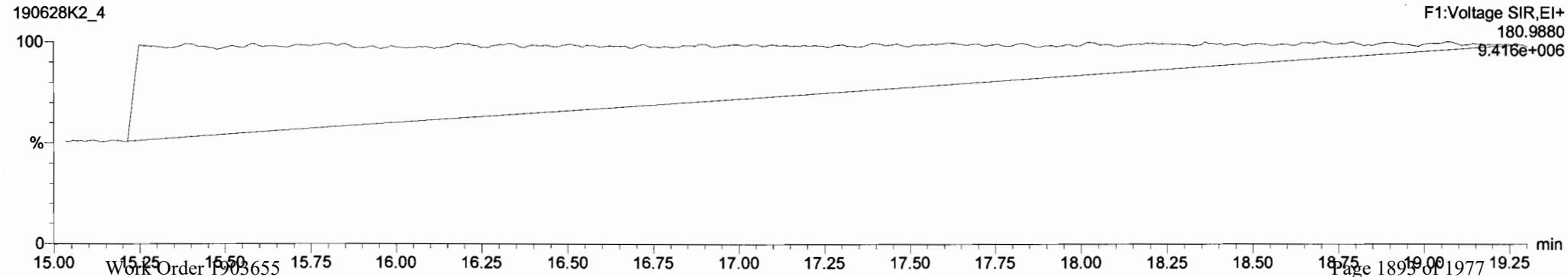
**PCB-1**



**13C-PCB-1**



**PFK1**



Vista Analytical Laboratory VG-11

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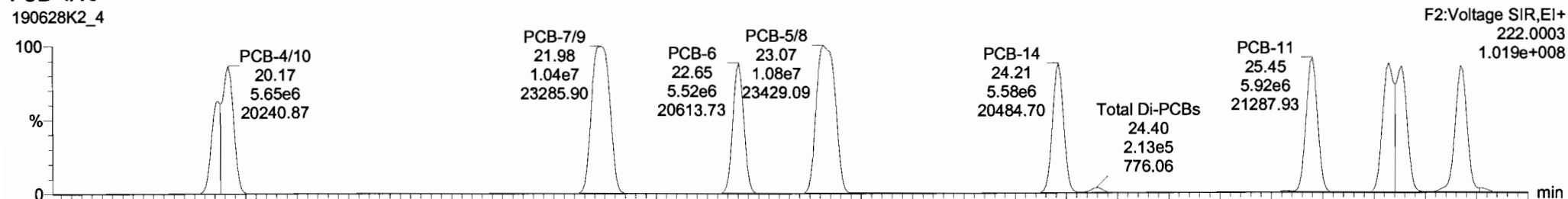
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Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

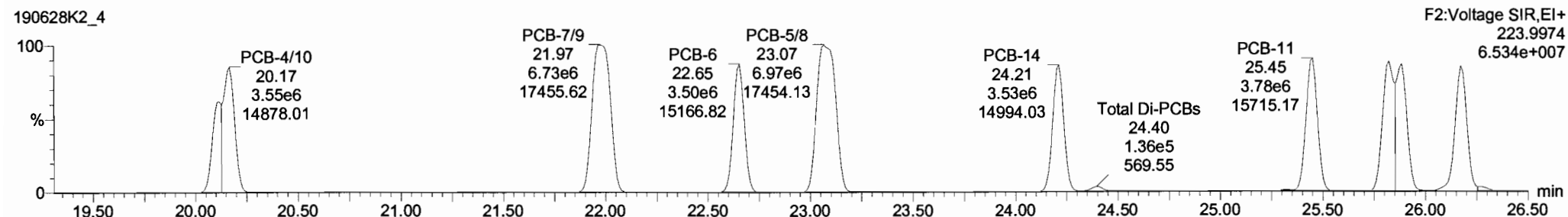
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**PCB-4/10**

190628K2\_4

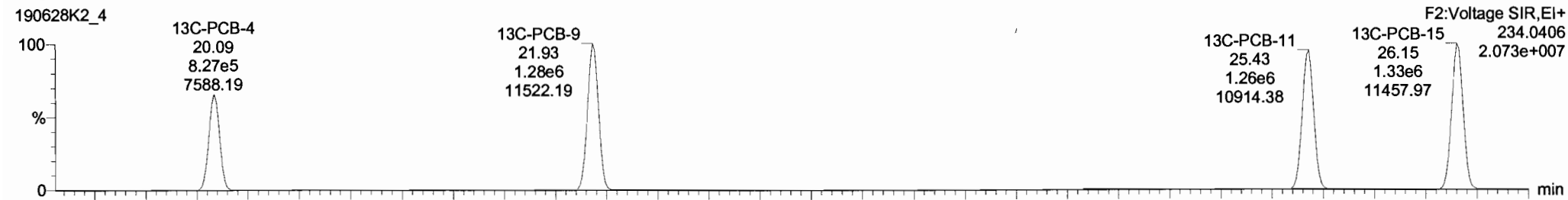


190628K2\_4

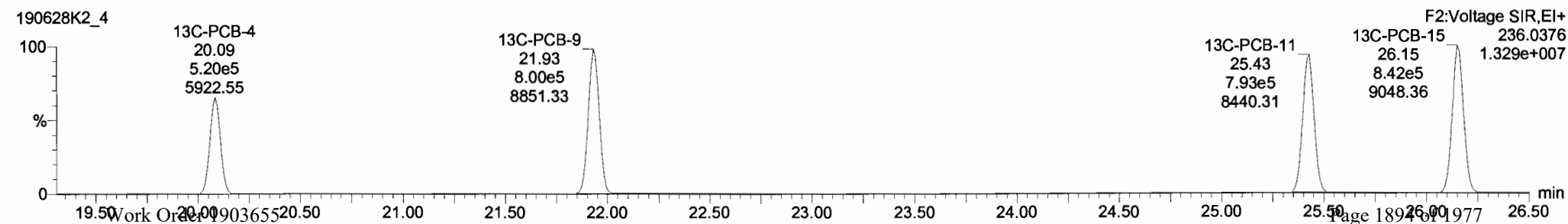


**13C-PCB-4**

190628K2\_4

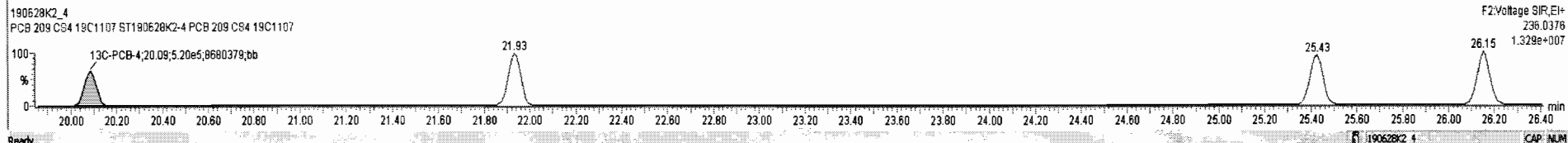
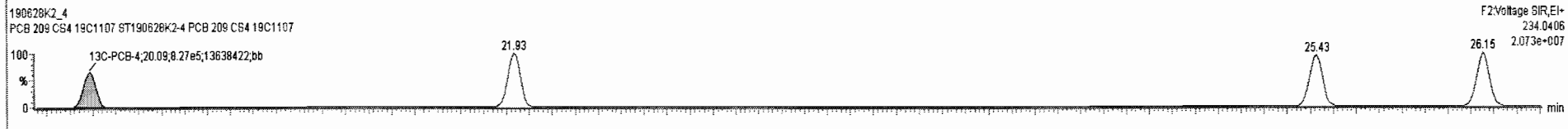
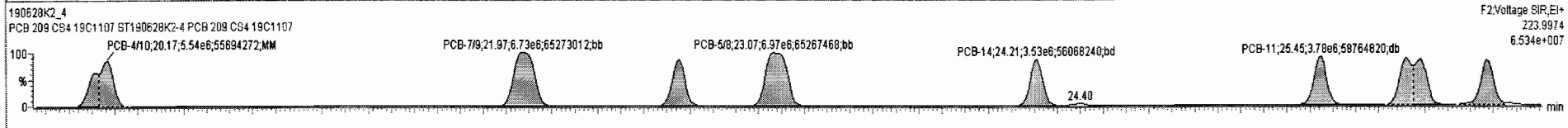
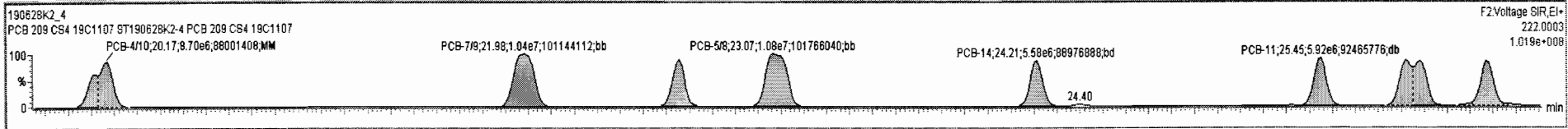


190628K2\_4



#	Name	Resp	RA	nly	RF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT.Fac	Conc	%Rec	DL	EMPC
222	13C-PCB-79	1.52e6	0.78	NO	1.0454	1.000	36.47	36.47	0.968	0.968	NO	99.56	99.5	0.0537	
223	13C-PCB-178	6.09e5	0.46	NO	0.3749	1.000	46.58	46.58	0.924	0.924	NO	97.07	97.1	0.0672	
224	224 Total Mono-PCBs				1.0122	1.000	0.00	0.00	0.000	0.000	NO	1261		0.0412	1261
225	225 Total Di-PCBs				1.0592	1.000	0.00	0.00	0.000	0.000	NO	5092		0.394	5092
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00	0.00	0.000	0.000	NO	3323		0.104	3323
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00	0.00	0.000	0.000	NO	6901		0.905	6901
228	228 Total Tetra-PCBs				0.9861	1.000	0.00	0.00	0.000	0.000	NO	17700		1.87	17700
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00	0.00	0.000	0.000	NO	17190		0.903	17190
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00	0.00	0.000	0.000	NO	2126		0.324	2126
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00	0.00	0.000	0.000	NO	5984		0.201	5984
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00	0.00	0.000	0.000	NO	11930		2.12	11930
233	233 Total Hepta-PCBs				1.2636	1.000	0.00	0.00	0.000	0.000	NO	9955		2.30	9955
234	234 4th Function Octa-PCBs				0.8863	1.000	0.00	0.00	0.000	0.000	NO	3818		0.302	3818

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc
1	4 PCB-4/10	20.17	20.17	8.701e6	5.544e6	1.560	1.57	NO	829.76	829.76
2	5 PCB-7/9	21.99	21.98	1.044e7	6.733e6	1.560	1.55	NO	844.46	844.46
3	6 PCB-5	22.64	22.65	5.517e6	3.499e6	1.560	1.58	NO	425.56	425.56
4	7 PCB-5/8	23.06	23.07	1.082e7	6.972e6	1.560	1.55	NO	844.60	844.60
5	8 PCB-14	24.22	24.21	5.579e6	3.530e6	1.560	1.58	NO	428.85	428.85
6	9 PCB-11	25.45	25.45	5.917e6	3.777e6	1.560	1.57	NO	430.09	430.09
7	10 PCB-12/13	25.82	25.82	1.100e7	7.114e6	1.560	1.55	NO	849.52	849.52

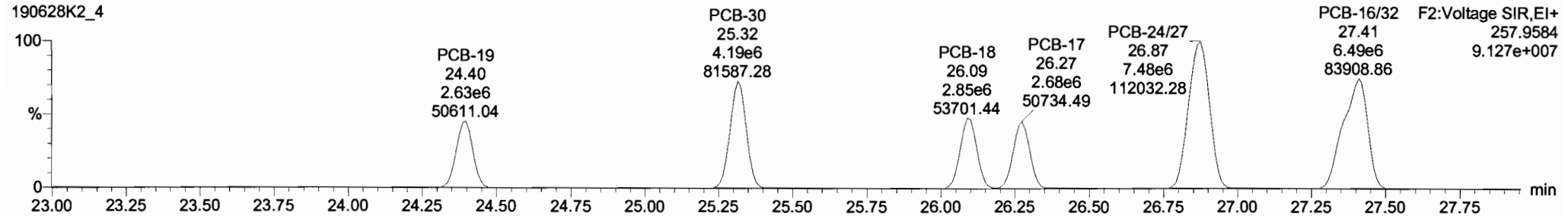
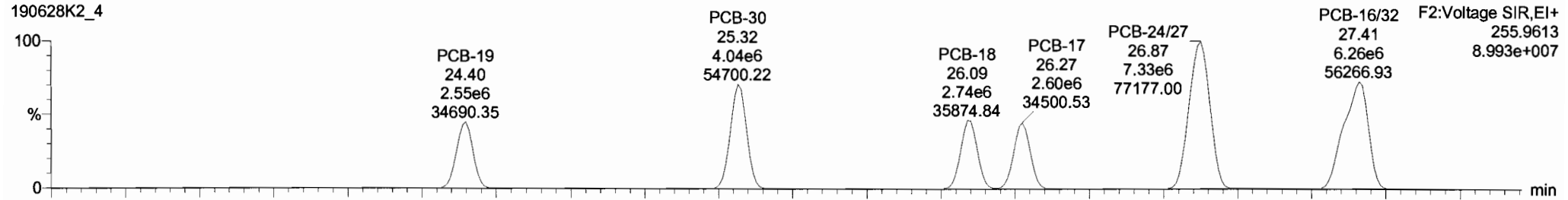


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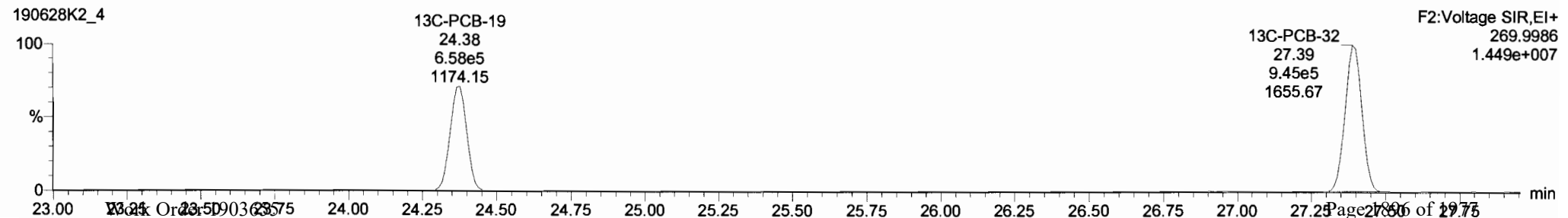
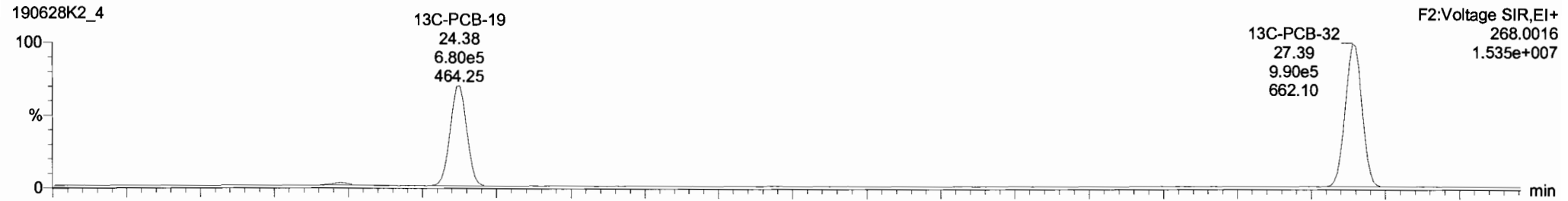
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Name: 190628K2\_4, Date: 28-Jun-2019, Time: 19:38:24, ID: ST190628K2-4 PCB 209 CS4 19C1107, Description: PCB 209 CS4 19C1107

**PCB-19**



**13C-PCB-19**



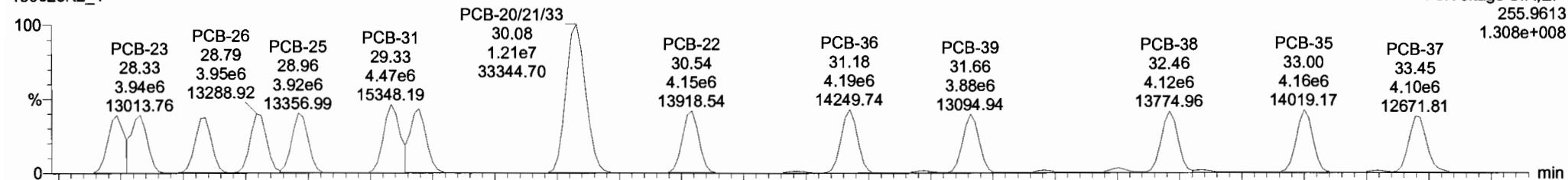
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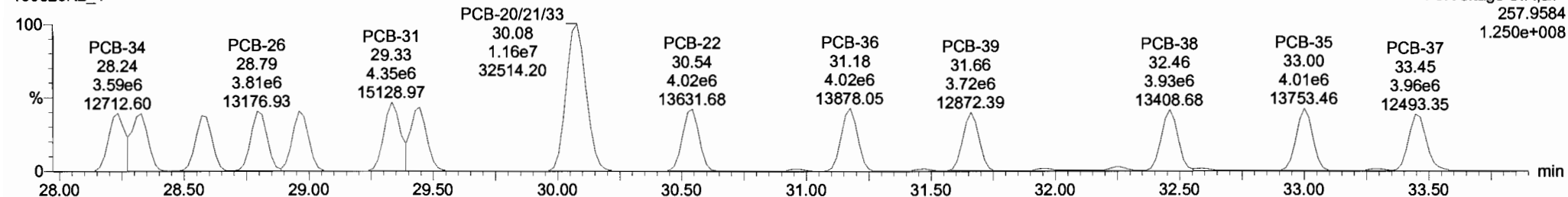
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**PCB-34**

190628K2\_4

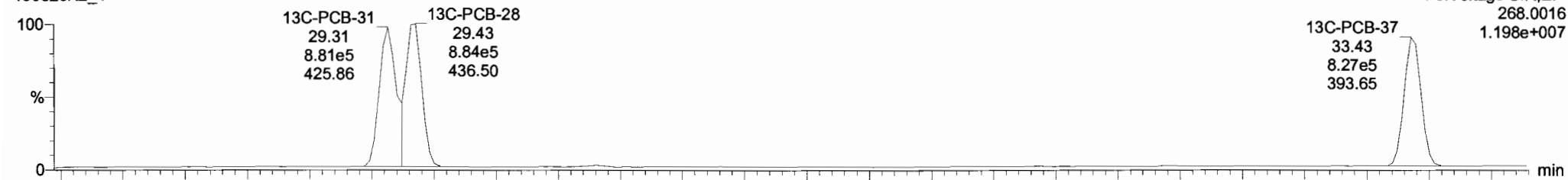


190628K2\_4

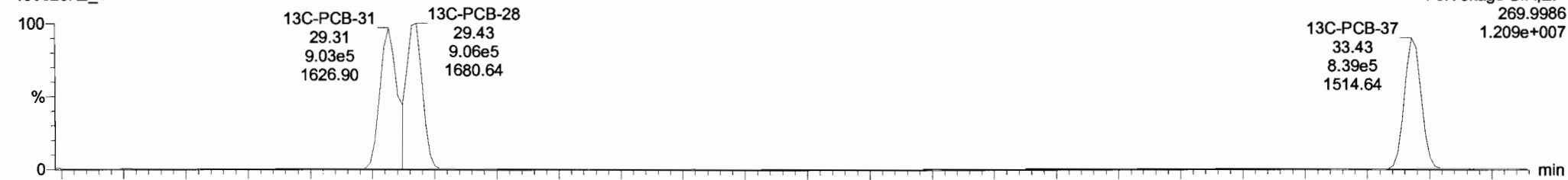


**13C-PCB-28**

190628K2\_4

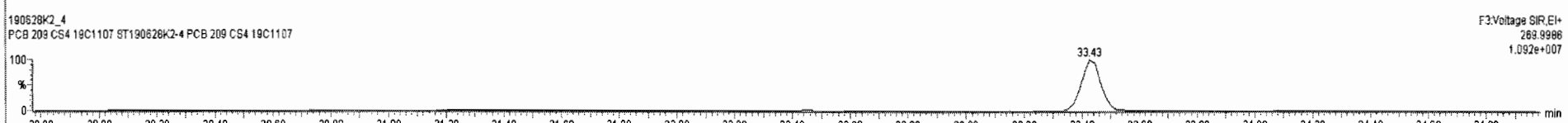
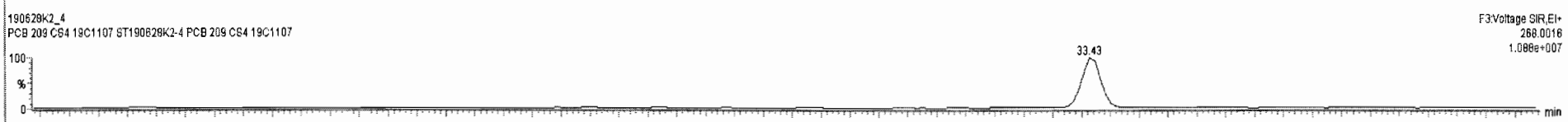
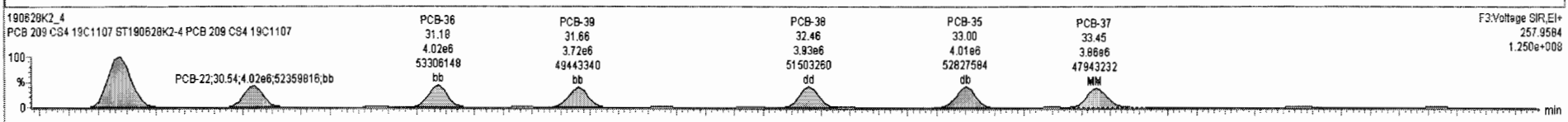
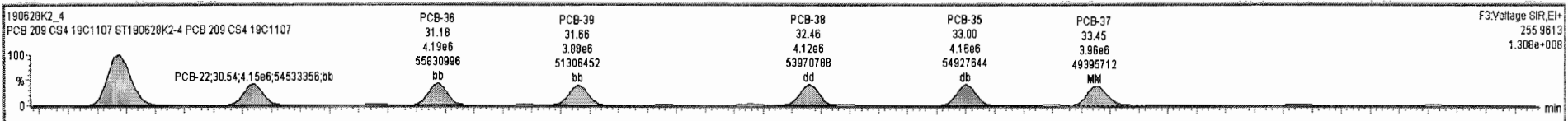


190628K2\_4



#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
222	13C-PCB-79	1.52e6	0.78	NO	1.0454	1.000	38.46	38.47	0.968	0.968	NO	99.56	99.6	0.0537	
223	13C-PCB-178	6.08e5	0.46	NO	0.9749	1.000	46.58	46.58	0.924	0.924	NO	97.07	97.1	0.0672	
224	Total Mono-PCBs				1.0122	1.000	0.00	0.000			NO	1261		0.0412	1261
225	Total Di-PCBs				1.0592	1.000	0.00	0.000			NO	5092		0.394	5092
226	2nd Function Tri-PCBs				0.9137	1.000	0.00	0.000			NO	3323		0.104	3323
227	3rd Function Tri-PCBs				1.0563	1.000	0.00	0.000			NO	6901		0.905	6901
228	Total Tetra-PCBs				0.9861	1.000	0.00	0.000			NO	17700		1.87	17700
229	3rd Function Penta-PCBs				1.1154	1.000	0.00	0.000			NO	17190		0.903	17190
230	4th Function Penta-PCBs				1.1112	1.000	0.00	0.000			NO	2126		0.324	2126
231	3rd Function Hexa-PCBs				0.7739	1.000	0.00	0.000			NO	5984		0.201	5984
232	4th Function Hexa-PCBs				0.9719	1.000	0.00	0.000			NO	11930		2.12	11930
233	Total Hepta-PCBs				1.2636	1.000	0.00	0.000			NO	9955		2.30	9955
234	4th Function Octa-PCBs				0.8863	1.000	0.00	0.000			NO	3918		0.302	3918

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	% Ratio (Pred)	RA	n/y	EMPC	Conc
1	18 PCB-34	28.24	28.24	3.670e6	3.587e6	1.040	1.02	NO	410.55	410.55
2	19 PCB-23	28.33	28.33	3.936e6	3.759e6	1.040	1.05	NO	441.27	441.27
3	20 PCB-29	28.59	28.59	3.736e6	3.589e6	1.040	1.04	NO	429.09	429.09
4	21 PCB-26	28.81	28.79	3.952e6	3.812e6	1.040	1.04	NO	433.25	433.25
5	22 PCB-25	28.98	28.96	3.922e6	3.766e6	1.040	1.04	NO	439.10	439.10
6	23 PCB-31	29.33	29.33	4.474e6	4.349e6	1.040	1.03	NO	438.75	438.75
7	24 PCB-28	29.44	29.44	4.316e6	4.132e6	1.040	1.04	NO	426.88	426.88





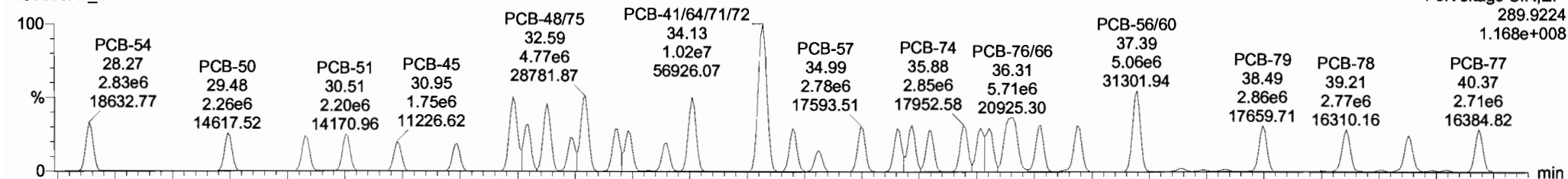
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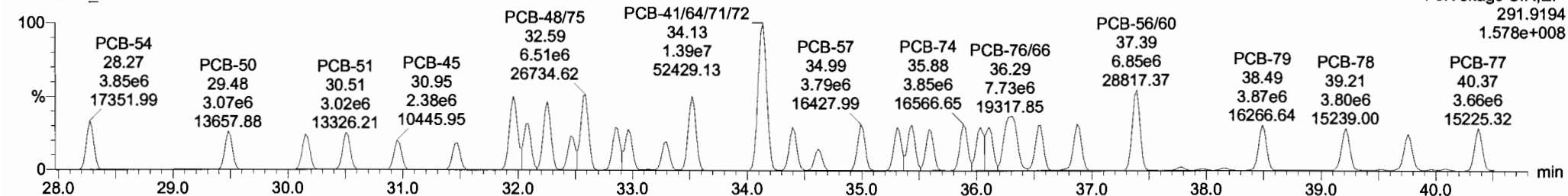
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**PCB-54**

190628K2\_4

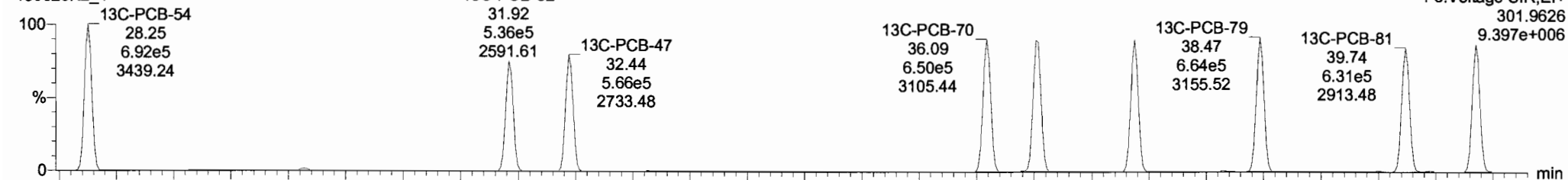


190628K2\_4

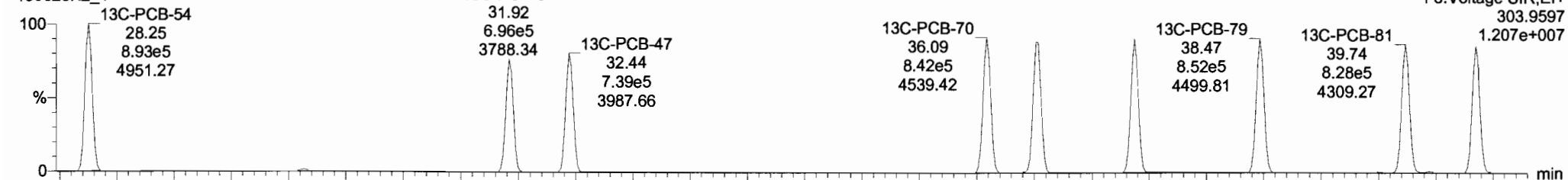


**13C-PCB-54**

190628K2\_4



190628K2\_4

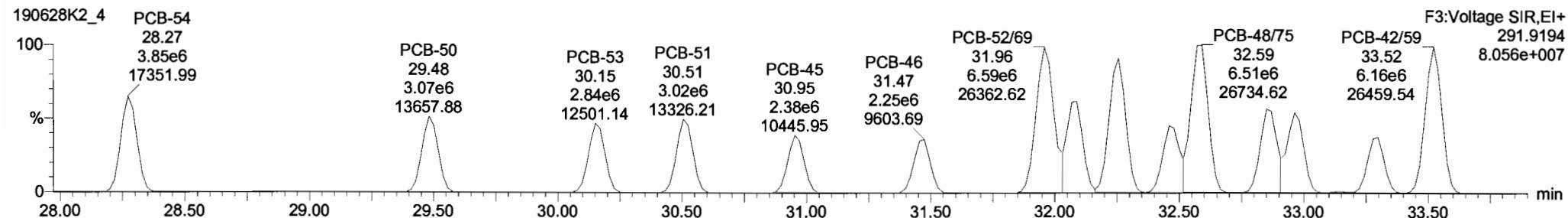
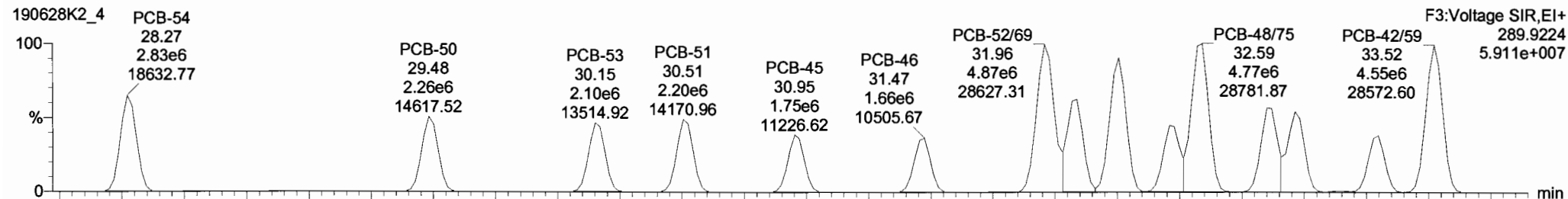


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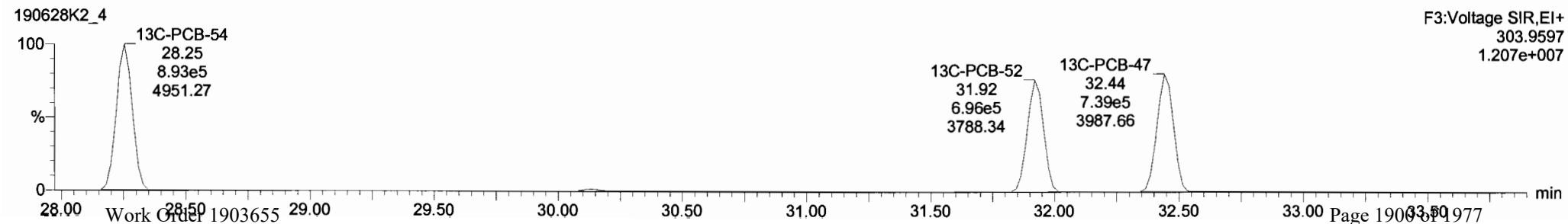
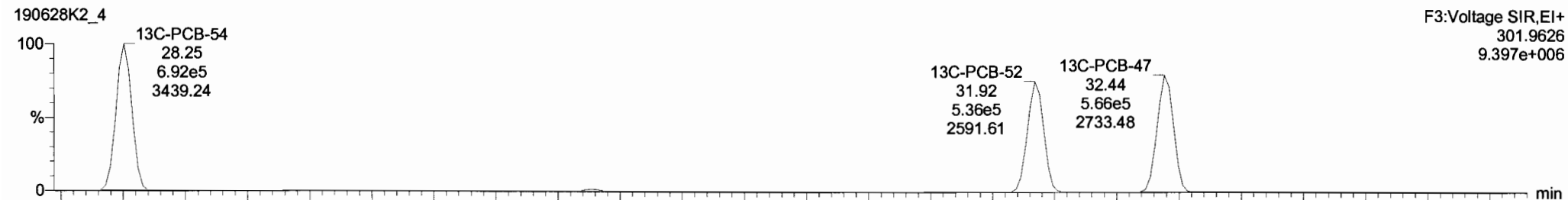
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**PCB-50**



**13C-PCB-52**



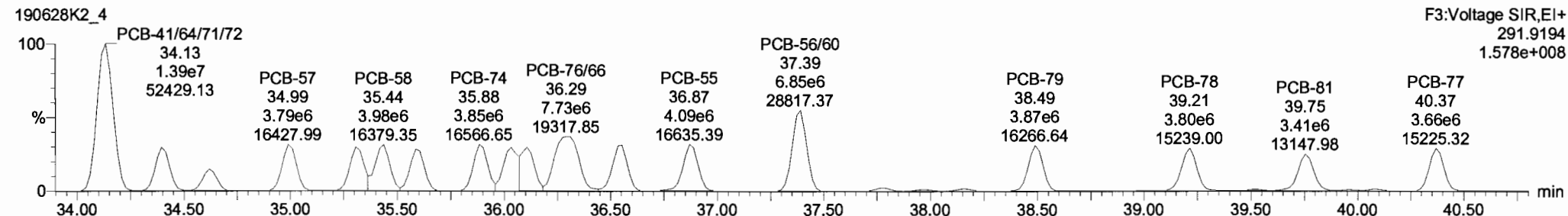
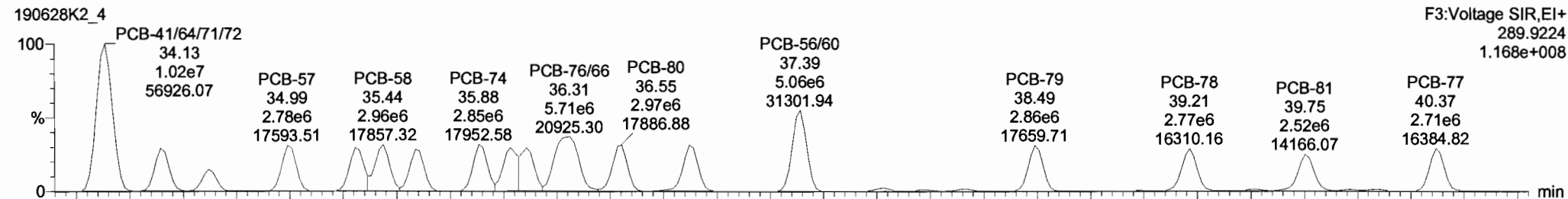
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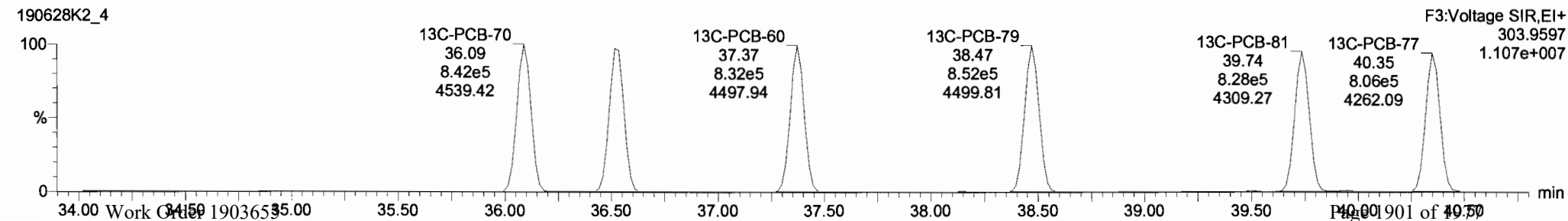
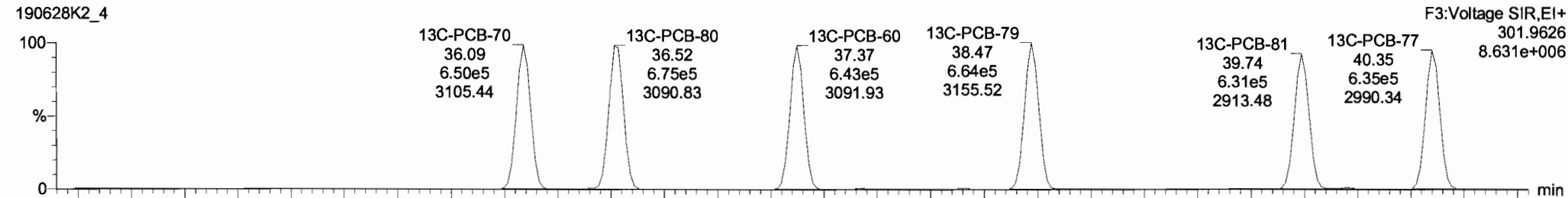
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Name: 190628K2\_4, Date: 28-Jun-2019, Time: 19:38:24, ID: ST190628K2-4 PCB 209 CS4 19C1107, Description: PCB 209 CS4 19C1107

**PCB-68**



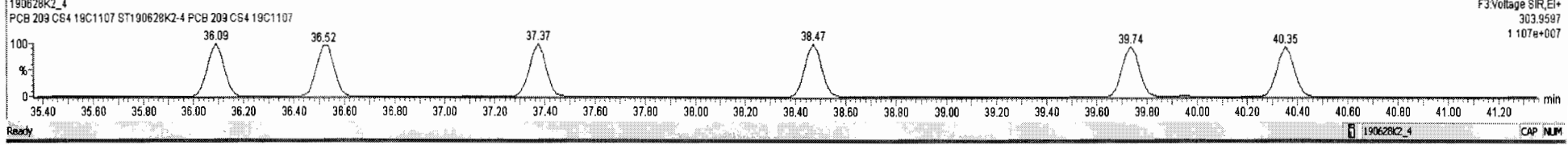
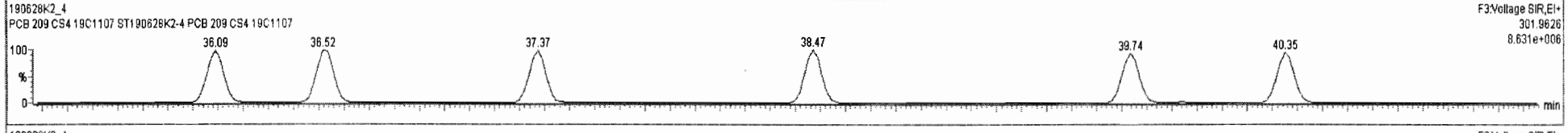
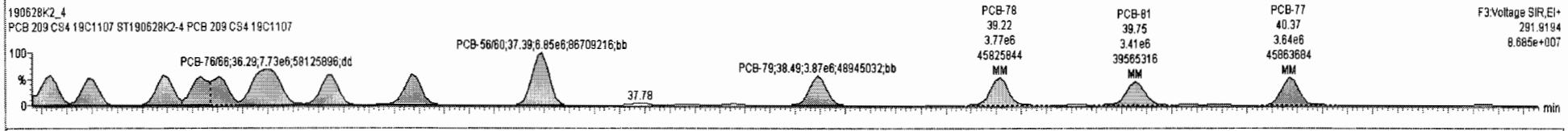
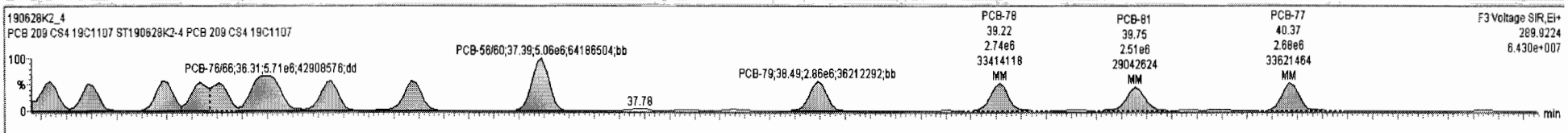
**13C-PCB-60**



190628K2\_4 - ST190628K2-4 PCB 209 CS4 19C1107 - PCB 209 CS4 19C1107

#	Name	Resp	RA	n/y	RRF	w/Aol	Pred RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
222	13C-PCB-79	1.52e6	0.78	NO	1.0454	1.000	38.46	38.47	0.968	0.968	NO	99.56	99.6	0.0537	
223	13C-PCB-178	6.08e5	0.46	NO	0.9749	1.000	46.58	46.58	0.924	0.924	NO	97.07	97.1	0.0672	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	1261		0.0412	1261
225	Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	5092		0.394	5092
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	3323		0.104	3323
227	3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	6901		0.905	6901
228	Total Tetra-PCBs				0.9661	1.000	0.00		0.000		NO	17700		1.87	17700
229	3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	17190		0.903	17190
230	4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	2126		0.324	2126
231	3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	5984		0.201	5984
232	4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	11930		2.12	11930
233	Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	9955		2.30	9955
234	4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	3918		0.302	3918

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
32	PCB-54	28.27	28.27	2.834e6	3.847e6	0.770	0.74	NO	423.54	423.54
33	PCB-50	29.49	29.48	2.257e6	3.071e6	0.770	0.74	NO	430.53	430.53
34	PCB-53	30.16	30.15	2.101e6	2.841e6	0.770	0.74	NO	419.78	419.78
35	PCB-51	30.52	30.51	2.201e6	3.016e6	0.770	0.73	NO	413.47	413.47
36	PCB-45	30.96	30.95	1.755e6	2.376e6	0.770	0.74	NO	414.79	414.79
37	PCB-46	31.45	31.47	1.662e6	2.251e6	0.770	0.74	NO	421.33	421.33
38	PCB-52/69	31.96	31.96	4.868e6	6.594e6	0.770	0.74	NO	851.85	851.85



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Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_4, Date: 28-Jun-2019, Time: 19:38:24, ID: ST190628K2-4 PCB 209 CS4 19C1107, Description: PCB 209 CS4 19C1107

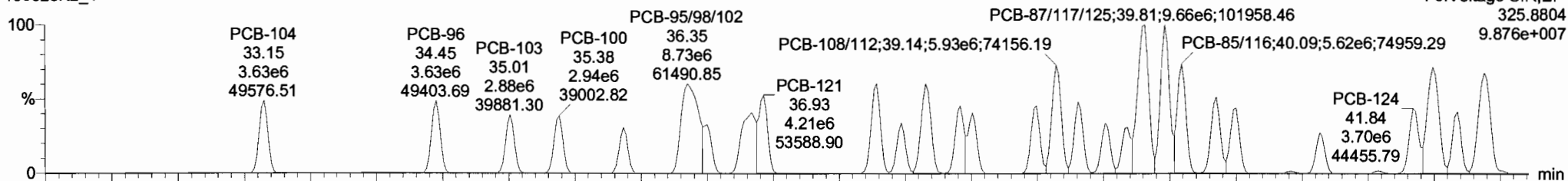
### PCB-104

190628K2\_4

F3:Voltage SIR,EI+

325.8804

9.876e+007

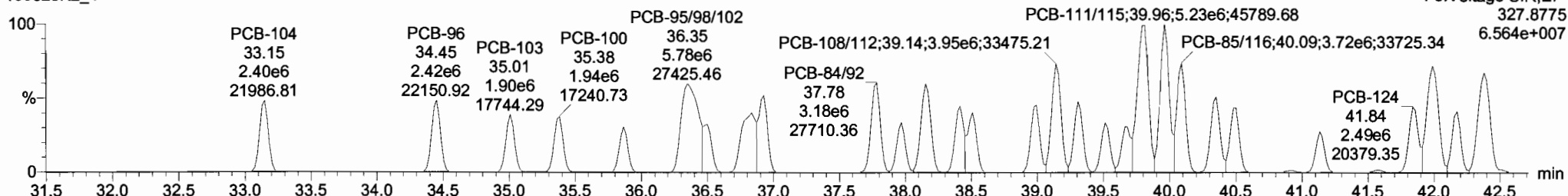


190628K2\_4

F3:Voltage SIR,EI+

327.8775

6.564e+007



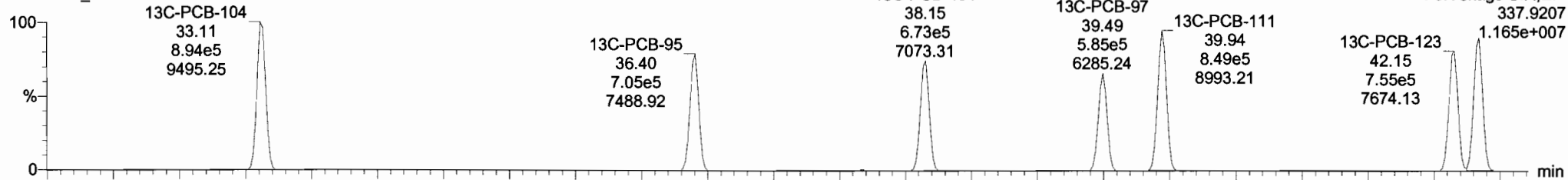
### 13C-PCB-104

190628K2\_4

F3:Voltage SIR,EI+

337.9207

1.165e+007

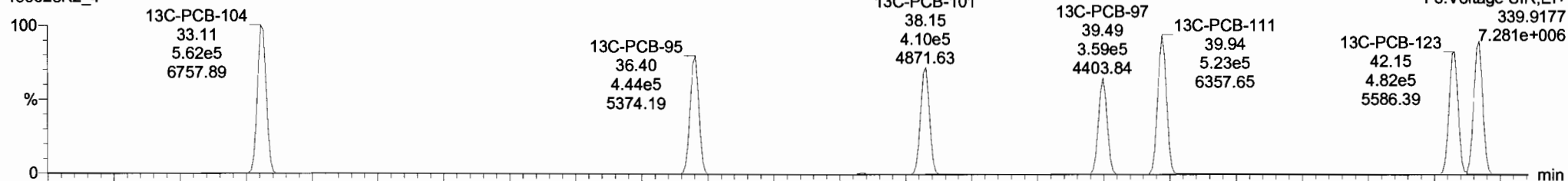


190628K2\_4

F3:Voltage SIR,EI+

339.9177

7.281e+006



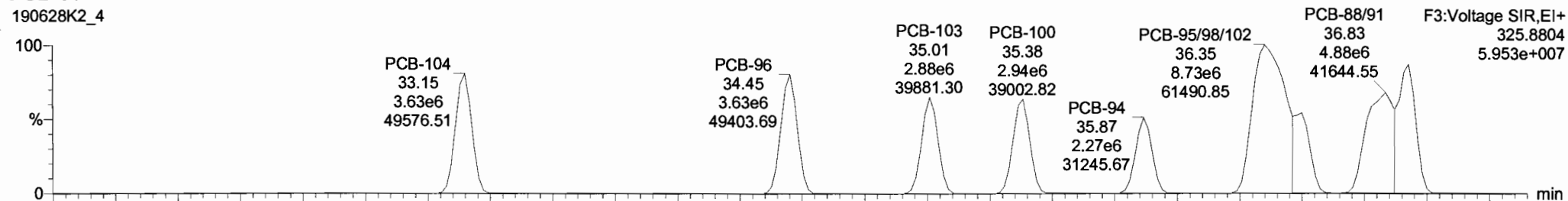
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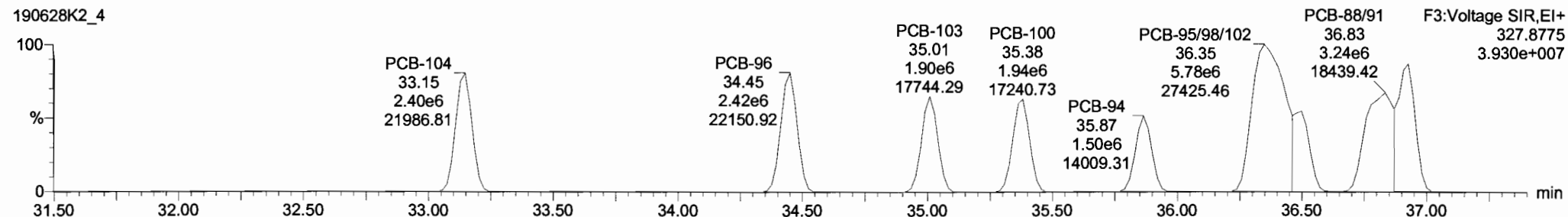
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**PCB-96**

190628K2\_4

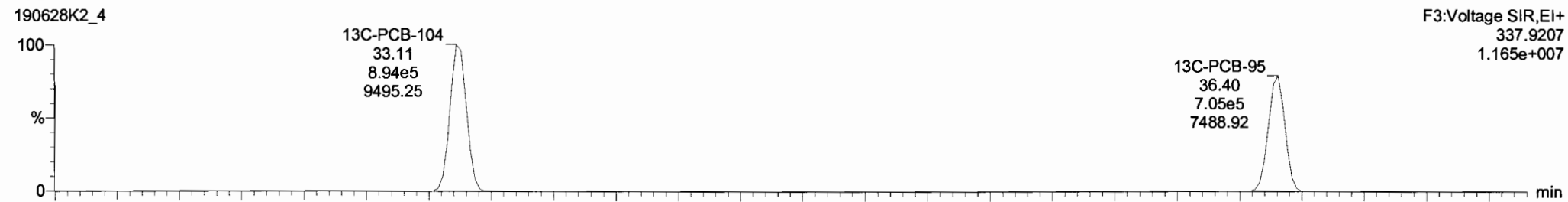


190628K2\_4

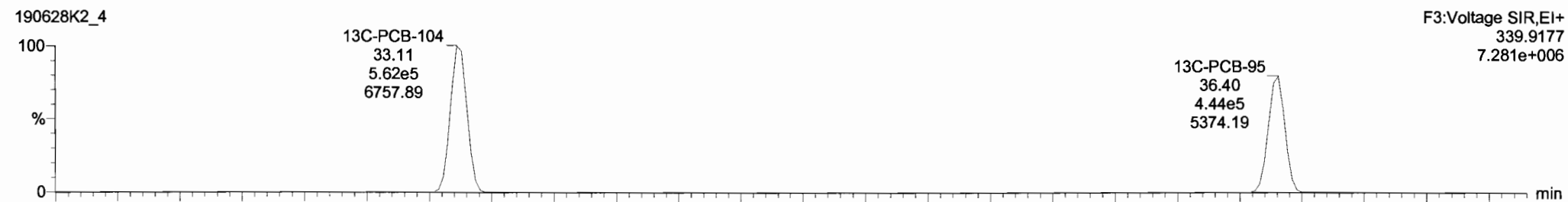


**13C-PCB-95**

190628K2\_4



190628K2\_4



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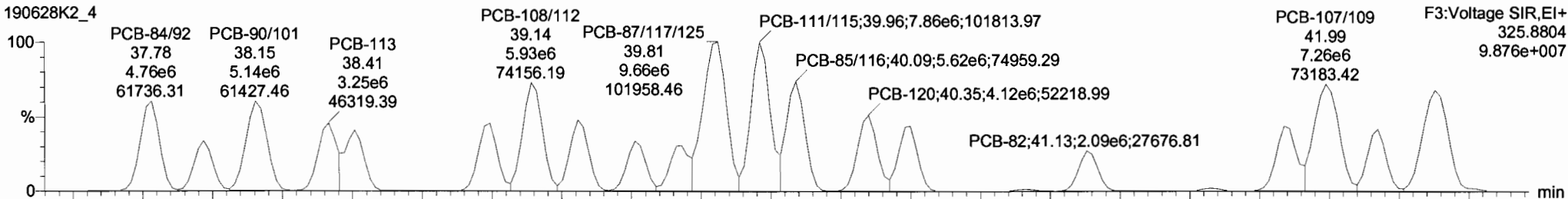
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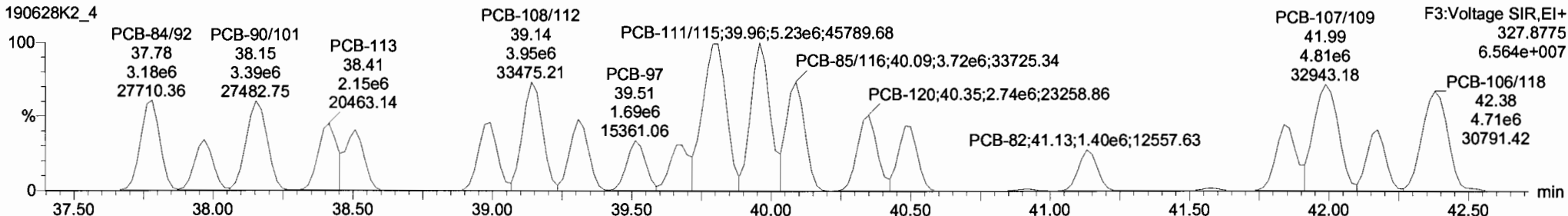
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PCB-119

190628K2\_4

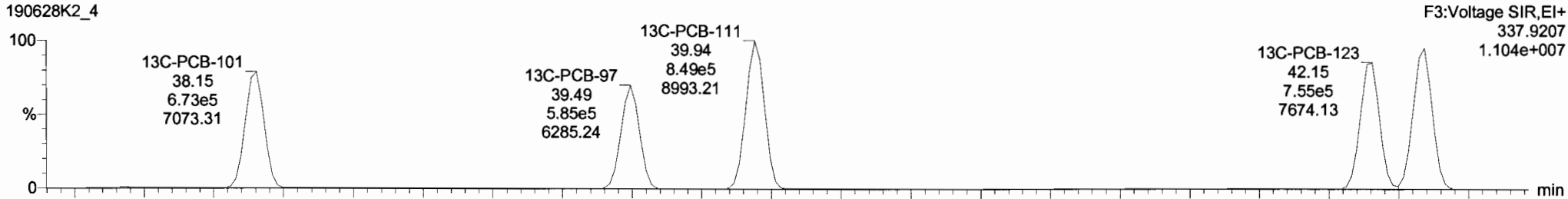


190628K2\_4

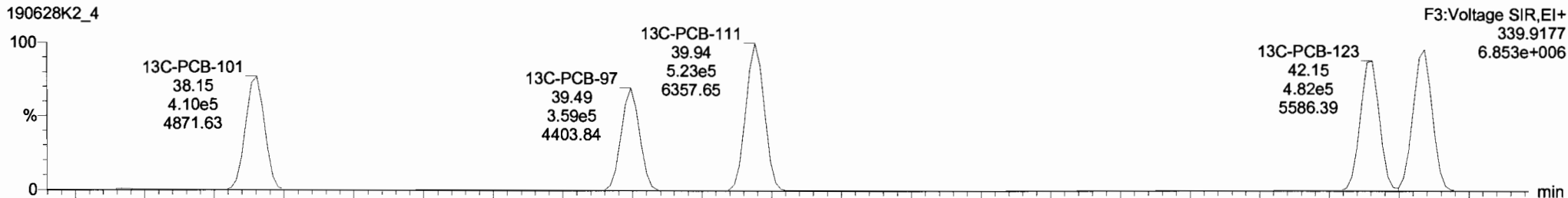


13C-PCB-111

190628K2\_4

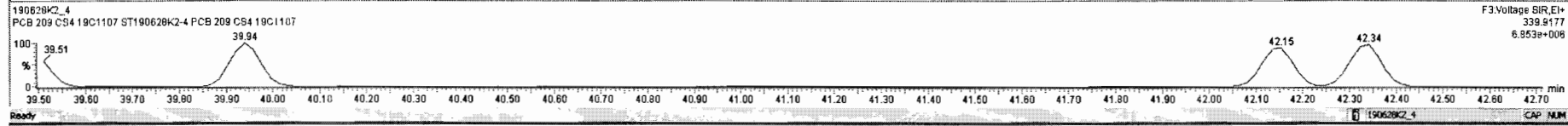
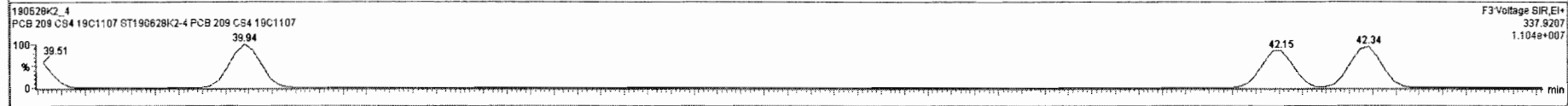
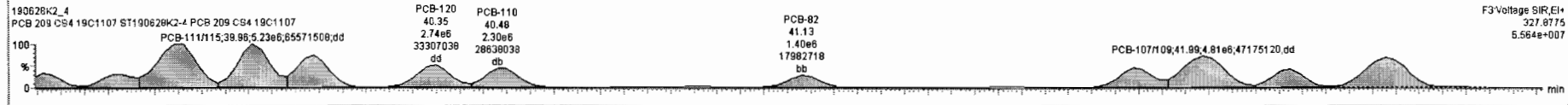
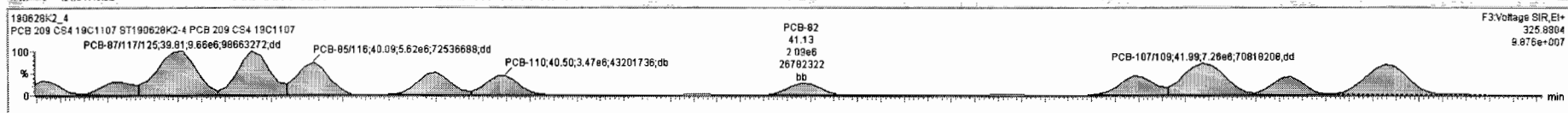


190628K2\_4



#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R.	RRT	RRT P/W	Conc.	%Rec	DL	EMPC
222	222 13C-PCB-79	1.52e6	0.78	NO	1.0454	1.000	38.46	38.47	0.968	0.968	NO	99.56	99.6	0.0537	
223	223 13C-PCB-178	6.08e5	0.46	NO	0.9749	1.000	46.58	46.58	0.924	0.924	NO	97.07	97.1	0.0672	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	1261		0.0412	1261
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	5092		0.394	5092
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	3323		0.104	3323
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	6901		0.905	6901
228	228 Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	17700		1.87	17700
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	17190		0.903	17190
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	2126		0.324	2126
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	5964		0.201	5964
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	11930		2.12	11930
233	233 Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	9955		2.30	9955
234	234 4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	3818		0.302	3818

#	Name	Pred.RT	RT	Int Resp	m2 Resp	1° Retn (Pred)	RA	n/y	EMPC	Conc.
1	84 PCB-104	33.13	33.15	3.629e6	2.403e6	1.560	1.51	NO	416.34	416.34
2	85 PCB-96	34.45	34.45	3.627e6	2.416e6	1.560	1.50	NO	416.63	416.63
3	66 PCB-103	35.01	35.01	2.885e6	1.895e6	1.590	1.52	NO	423.78	423.78
4	67 PCB-100	35.38	35.38	2.942e6	1.938e6	1.590	1.52	NO	430.88	430.88
5	68 PCB-94	35.69	35.67	2.268e6	1.501e6	1.590	1.51	NO	424.42	424.42
6	69 PCB-95/96/102	36.38	36.35	8.731e6	5.780e6	1.580	1.51	NO	1245.2	1245.2
7	70 PCB-93	36.51	36.50	2.418e6	1.588e6	1.590	1.52	NO	414.46	414.46



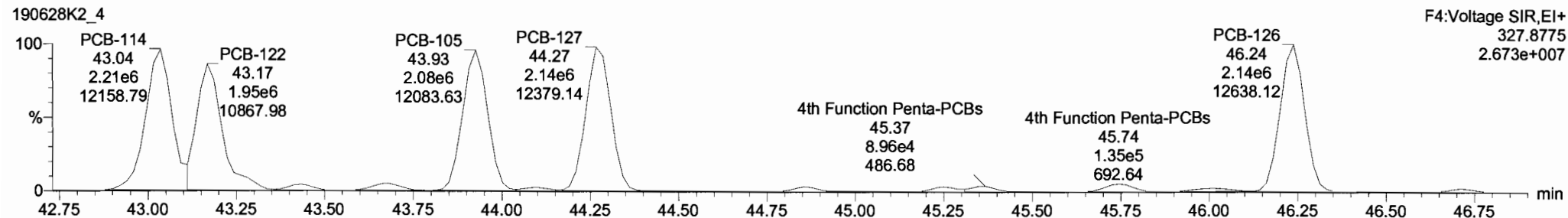
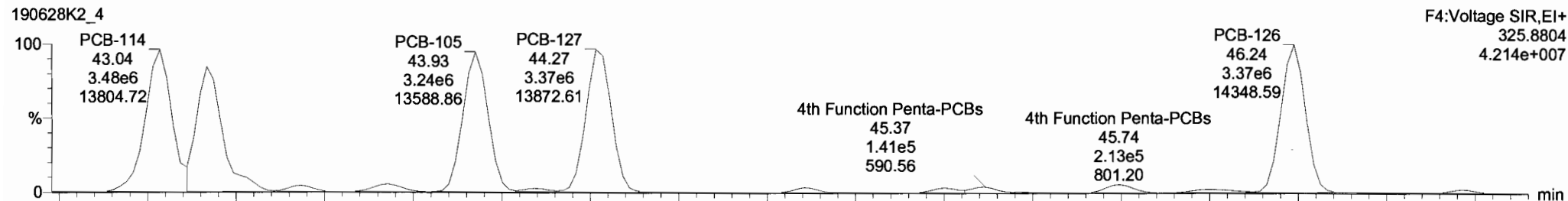


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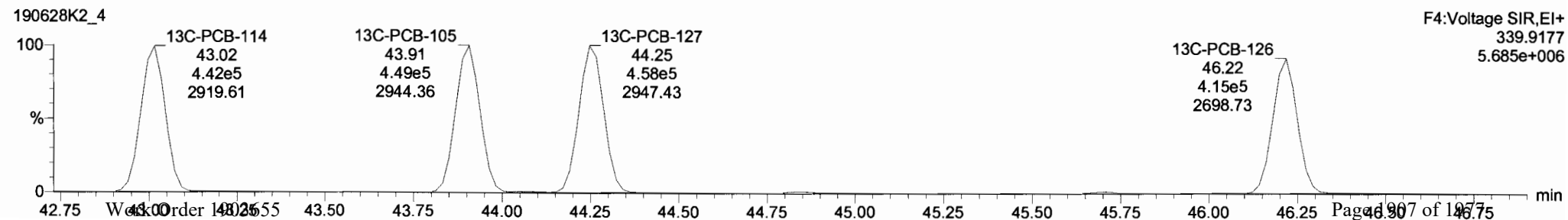
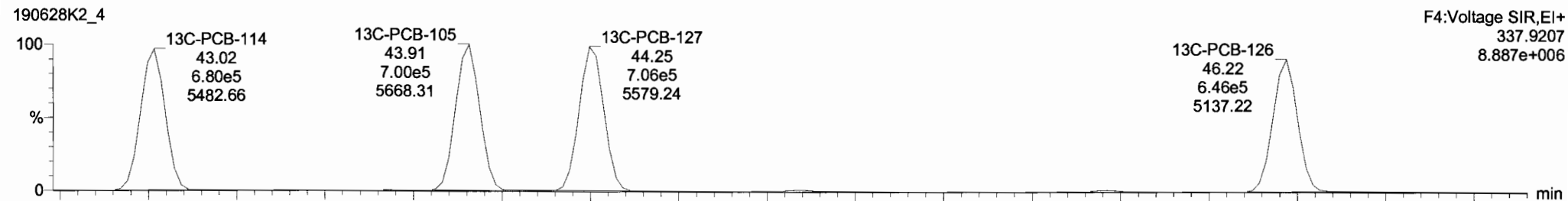
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Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_4, Date: 28-Jun-2019, Time: 19:38:24, ID: ST190628K2-4 PCB 209 CS4 19C1107, Description: PCB 209 CS4 19C1107

PCB-114

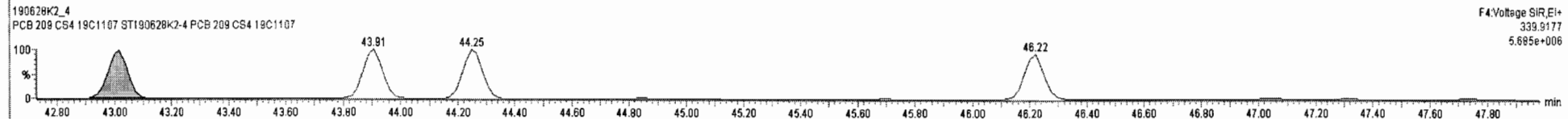
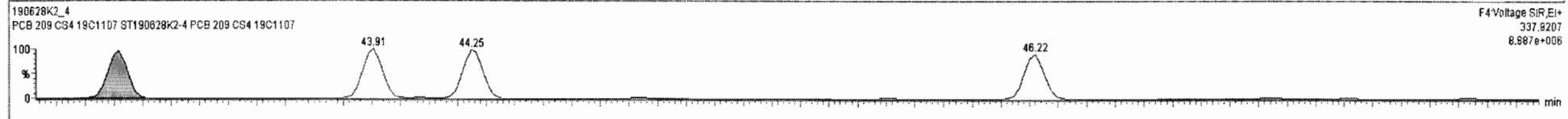
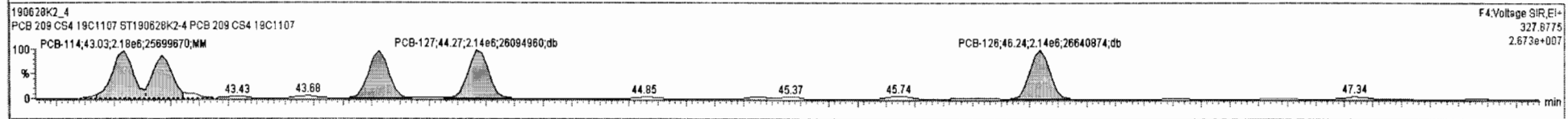
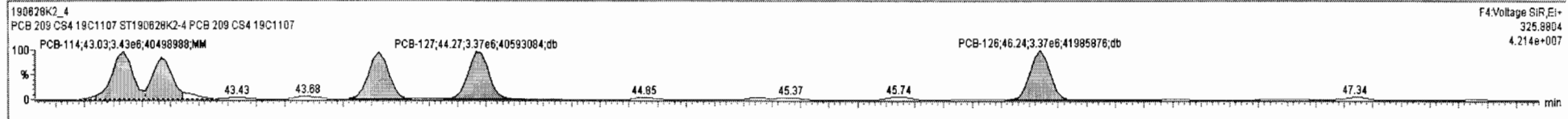


13C-PCB-114



#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
222	13C-PCB-79	1.52e6	0.78	NO	1.0454	1.000	36.46	36.47	0.968	0.968	NO	99.56	99.6	0.0537	
223	13C-PCB-178	6.08e5	0.46	NO	0.9749	1.000	46.58	46.58	0.924	0.924	NO	97.07	97.1	0.0672	
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	1261		0.0412	1261
225	Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	5092		0.394	5092
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	3323		0.104	3323
227	3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	6901		0.905	6901
228	Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	17700		1.87	17700
229	3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	17190		0.903	17190
230	4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	2126		0.324	2126
231	3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	5984		0.201	5984
232	4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	11930		2.12	11930
233	Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	9955		2.30	9955
234	4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	3818		0.302	3818

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	93 PCB-114	43.04	43.03	3.428e6	2.181e6	1.580	1.57	NO	430.65	430.65
2	94 PCB-122	43.17	43.17	2.786e6	1.785e6	1.560	1.56	NO	419.12	419.12
3	95 PCB-105	43.92	43.92	3.242e6	2.075e6	1.550	1.56	NO	420.49	420.49
4	96 PCB-127	44.27	44.27	3.374e6	2.141e6	1.560	1.58	NO	427.75	427.75
5	97 PCB-126	46.24	46.24	3.366e6	2.143e6	1.560	1.57	NO	428.28	428.28

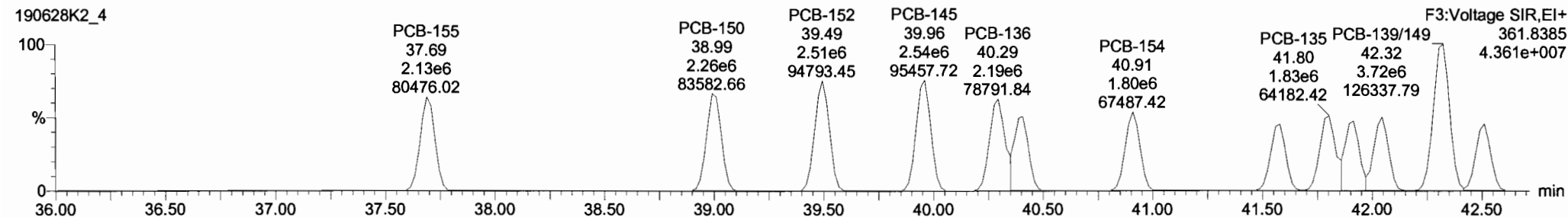
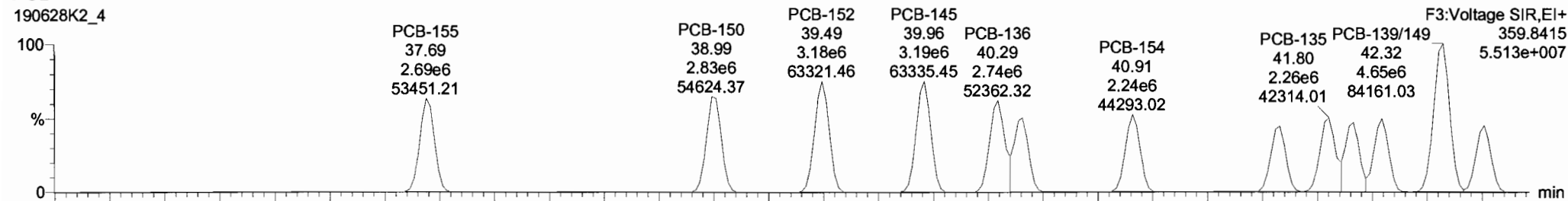


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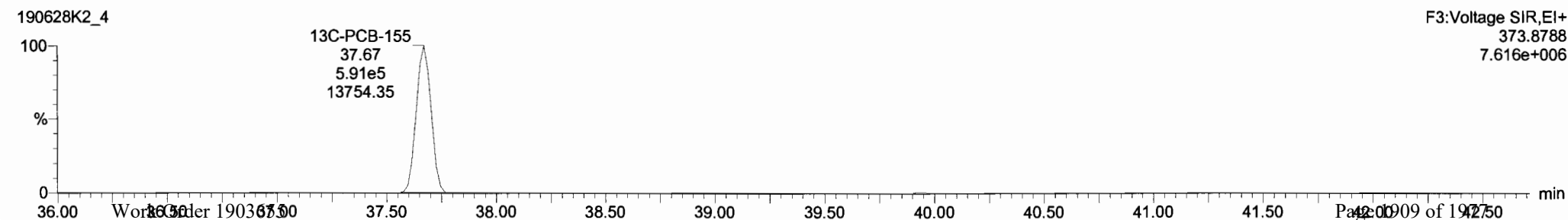
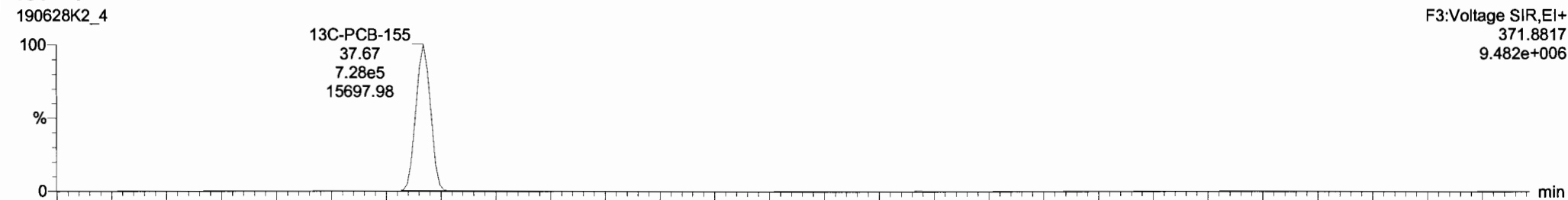
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Name: 190628K2\_4, Date: 28-Jun-2019, Time: 19:38:24, ID: ST190628K2-4 PCB 209 CS4 19C1107, Description: PCB 209 CS4 19C1107

**PCB-155**



**13C-PCB-155**



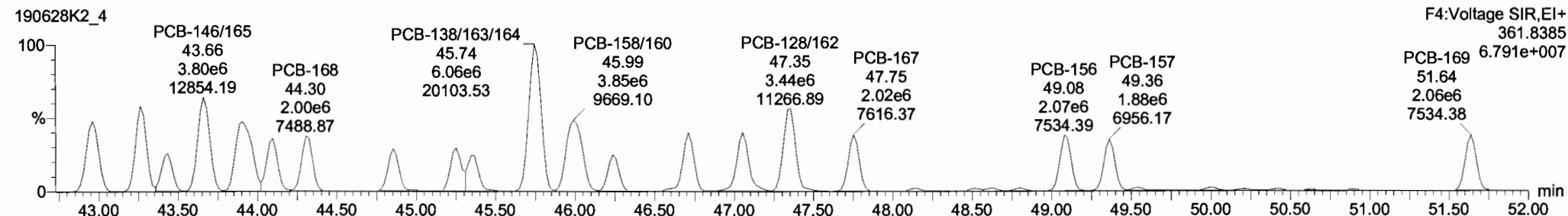
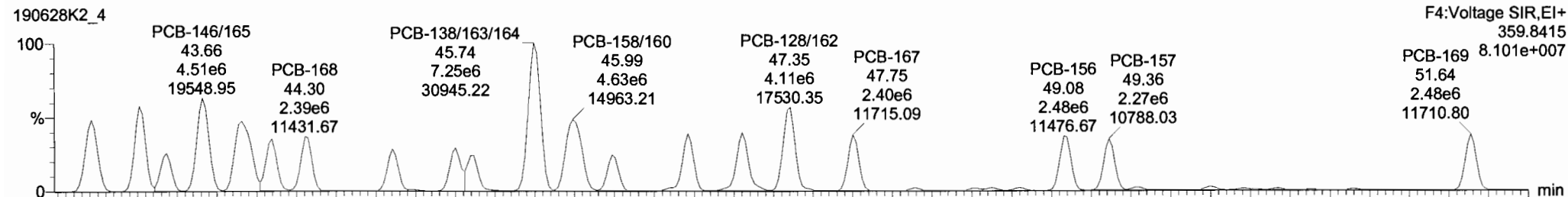
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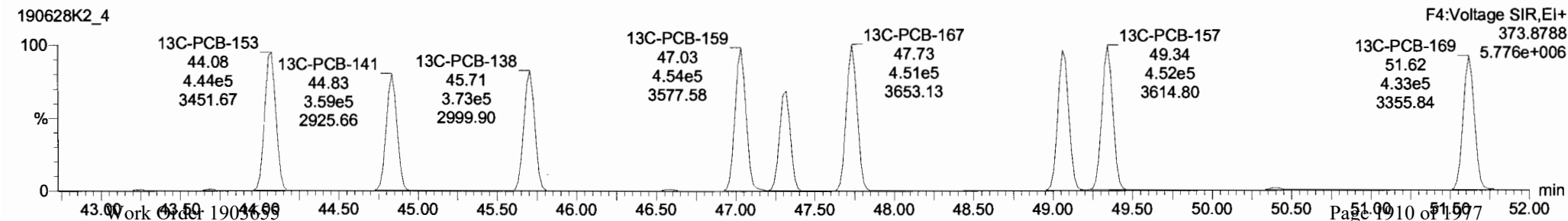
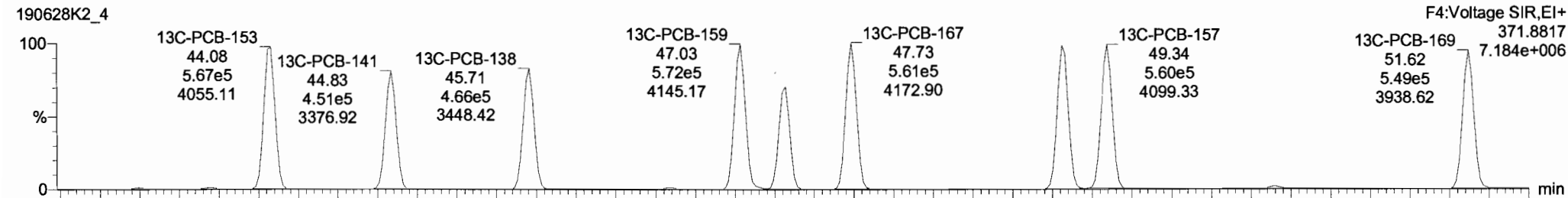
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Name: 190628K2\_4, Date: 28-Jun-2019, Time: 19:38:24, ID: ST190628K2-4 PCB 209 CS4 19C1107, Description: PCB 209 CS4 19C1107

PCB-134/143



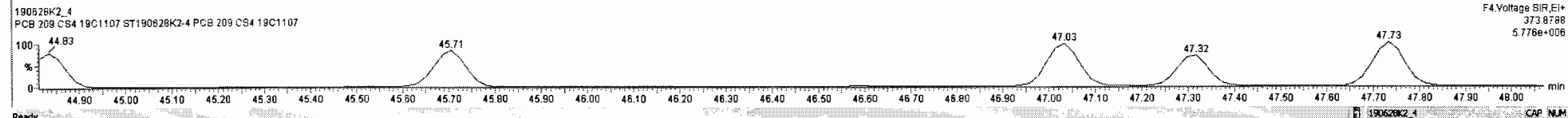
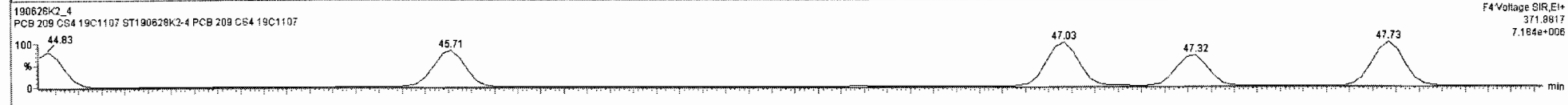
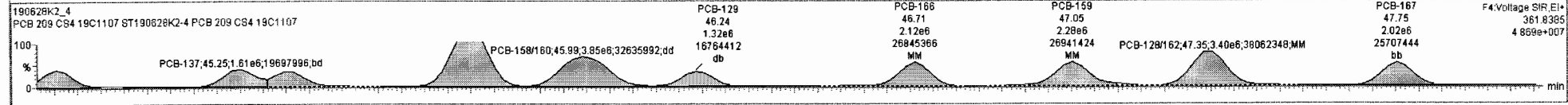
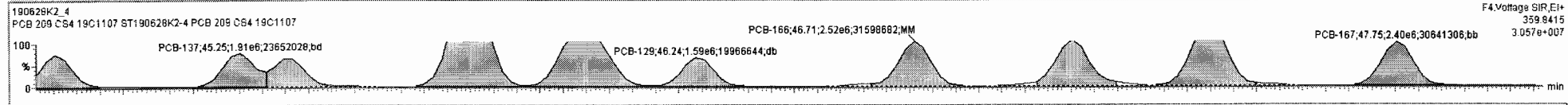
13C-PCB-153



190628K2\_4 - ST190628K2-4 PCB 209 CS4 19C1107 - PCB 209 CS4 19C1107

#	Name	Resp	RA	n/Y	RF	wAval	Pred.RT	RT	Pred.R	RRT	RRT.Fail	Conc.	%Res	DL	EMPC
222	13C-PCB-78	1.52e6	0.78	NO	1.0454	1.000	38.46	38.47	0.968	0.968	NO	99.56	99.8	0.0537	
223	13C-PCB-178	6.08e5	0.46	NO	0.9748	1.000	46.58	46.58	0.924	0.924	NO	97.07	97.1	0.0672	
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	1261		0.0412	1261
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	5092		0.394	5092
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	3323		0.104	3323
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	6901		0.905	6901
228	228 Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	17700		1.87	17700
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	17190		0.903	17190
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	2126		0.324	2126
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	5984		0.201	5984
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	11930		2.12	11930
233	233 Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	9955		2.30	9955
234	234 4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	3818		0.302	3818

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/Y	EMPC	Conc.
1	111 PCB-134/143	42.96	42.96	3.475e6	2.888e6	1.240	1.20	NO	858.07	858.07
2	112 PCB-131/133	43.26	43.26	3.713e6	3.108e6	1.240	1.20	NO	853.66	853.66
3	113 PCB-142	43.45	43.43	1.653e6	1.372e6	1.240	1.21	NO	422.47	422.47
4	114 PCB-146/165	43.66	43.66	4.509e6	3.805e6	1.240	1.18	NO	856.86	856.86
5	115 PCB-132/161	43.91	43.91	4.584e6	3.826e6	1.240	1.20	NO	853.51	853.51
6	116 PCB-153	44.10	44.10	2.313e6	1.940e6	1.240	1.19	NO	415.50	415.50
7	117 PCB-168	44.30	44.31	2.388e6	2.001e6	1.240	1.19	NO	425.76	425.76

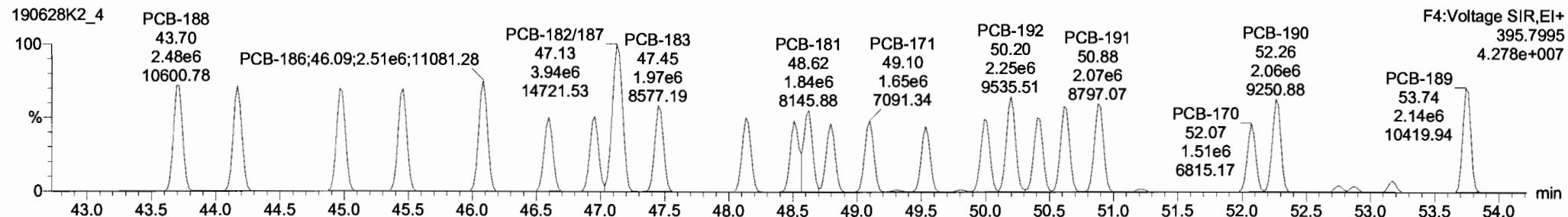
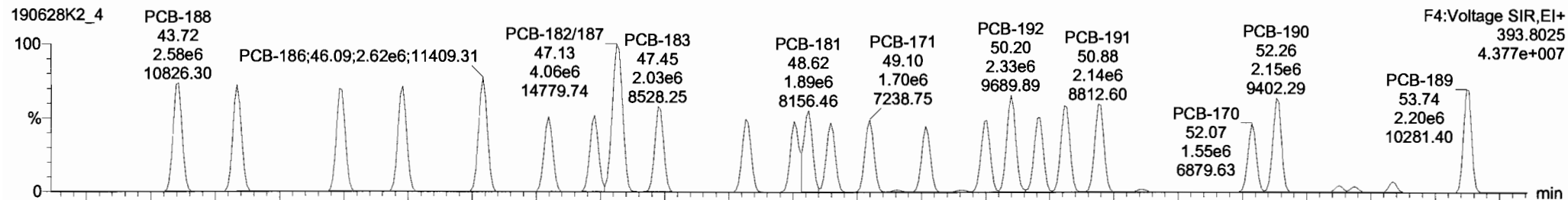


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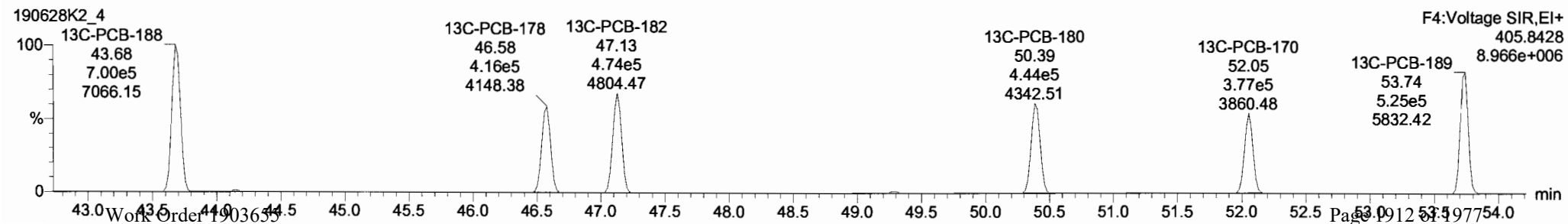
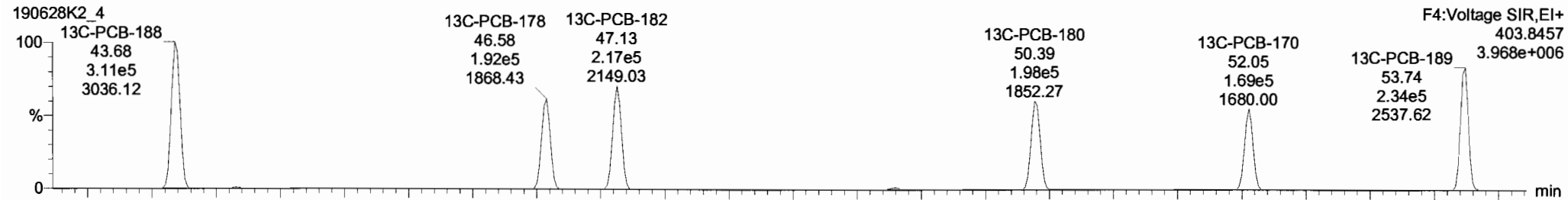
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Name: 190628K2\_4, Date: 28-Jun-2019, Time: 19:38:24, ID: ST190628K2-4 PCB 209 CS4 19C1107, Description: PCB 209 CS4 19C1107

PCB-188



13C-PCB-188



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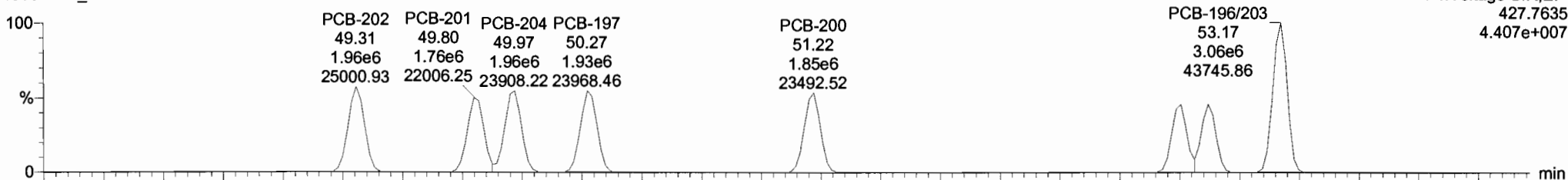
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PCB-202

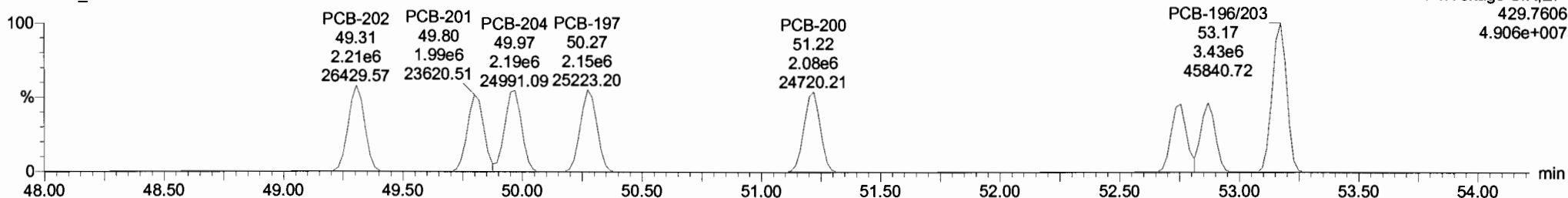
190628K2\_4

F4:Voltage SIR,EI+  
427.7635  
4.407e+007



190628K2\_4

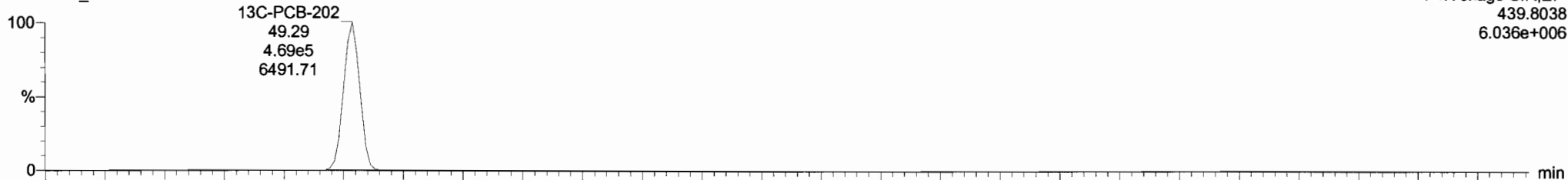
F4:Voltage SIR,EI+  
429.7606  
4.906e+007



13C-PCB-202

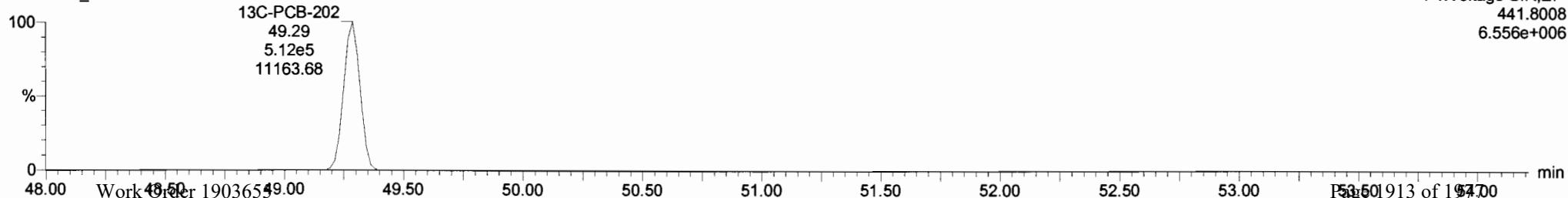
190628K2\_4

F4:Voltage SIR,EI+  
439.8038  
6.036e+006



190628K2\_4

F4:Voltage SIR,EI+  
441.8008  
6.556e+006

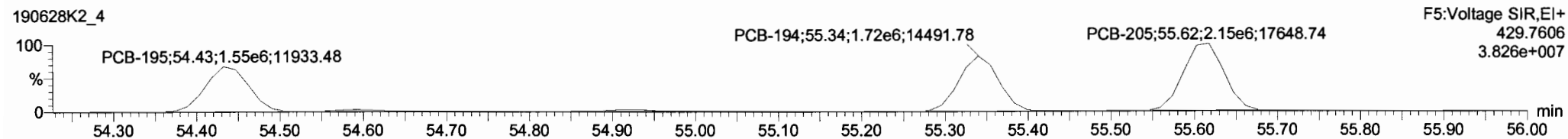
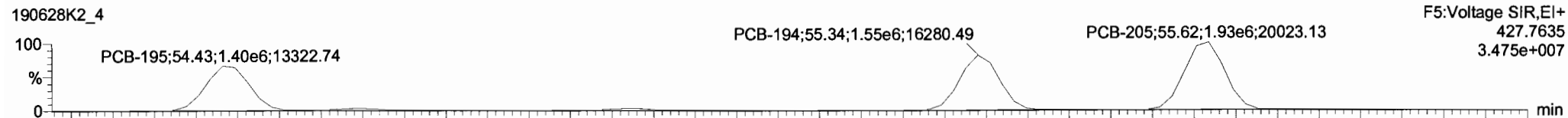


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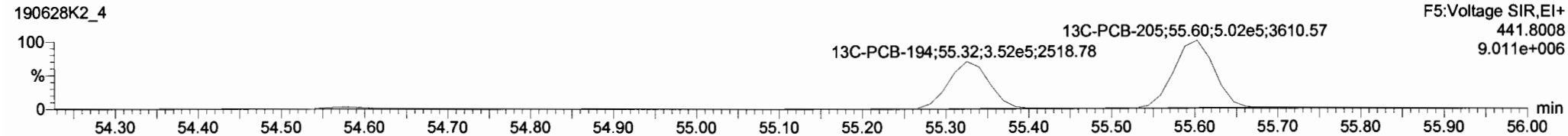
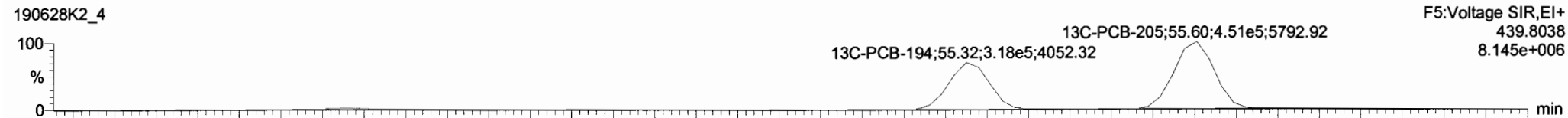
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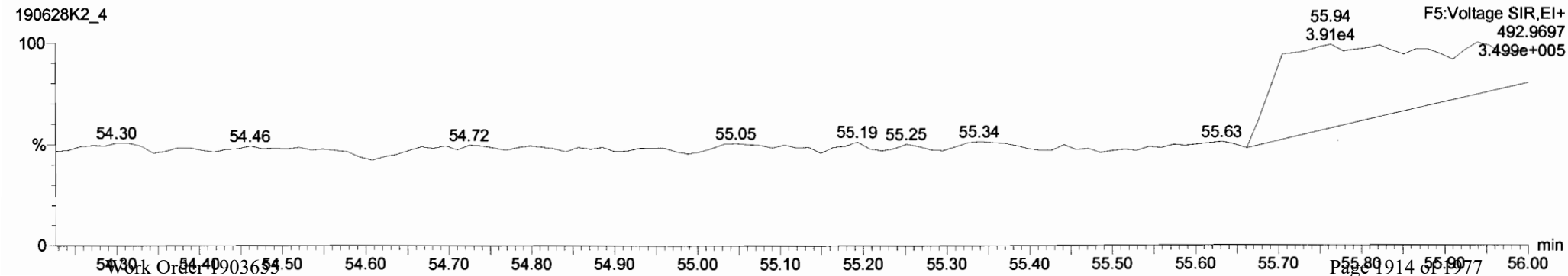
**PCB-195**



**13C-PCB-194**



**PFK5**



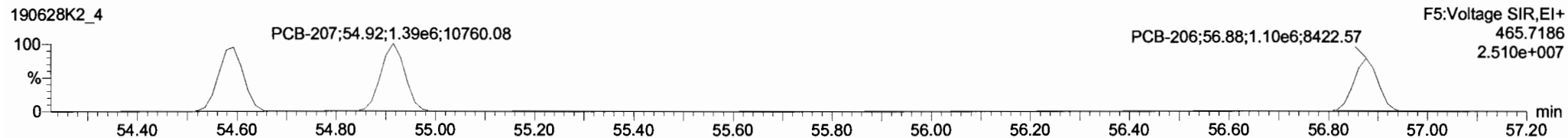
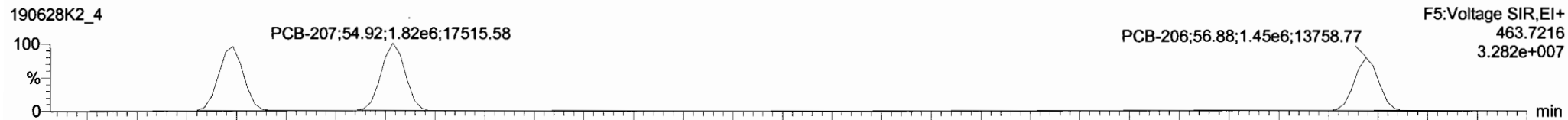


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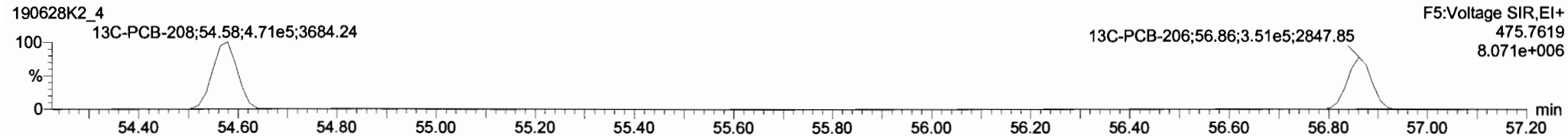
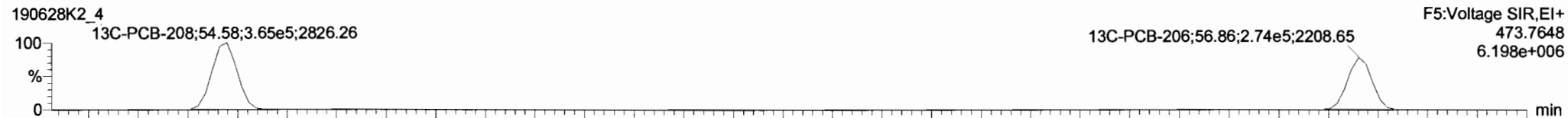
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Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_4, Date: 28-Jun-2019, Time: 19:38:24, ID: ST190628K2-4 PCB 209 CS4 19C1107, Description: PCB 209 CS4 19C1107

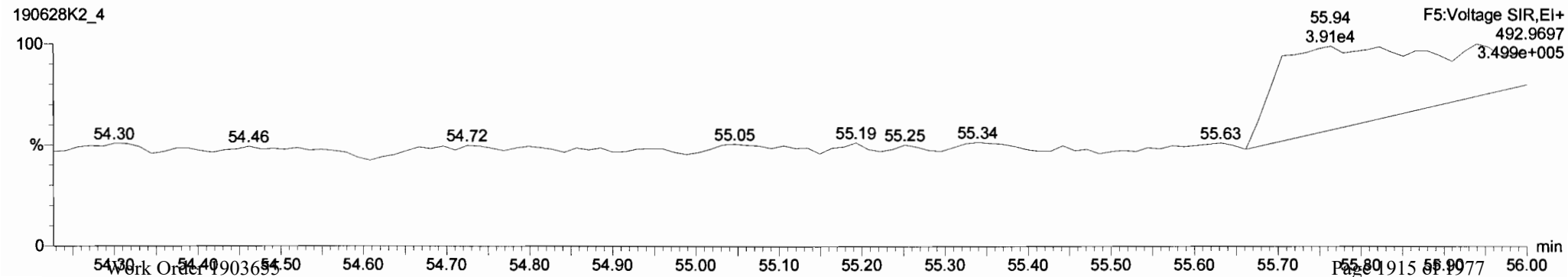
**PCB-208**



**13C-PCB-208**



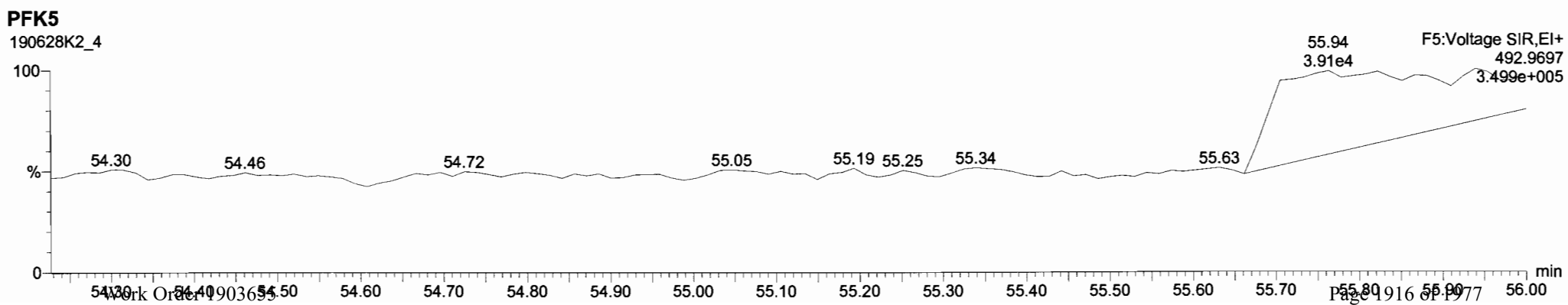
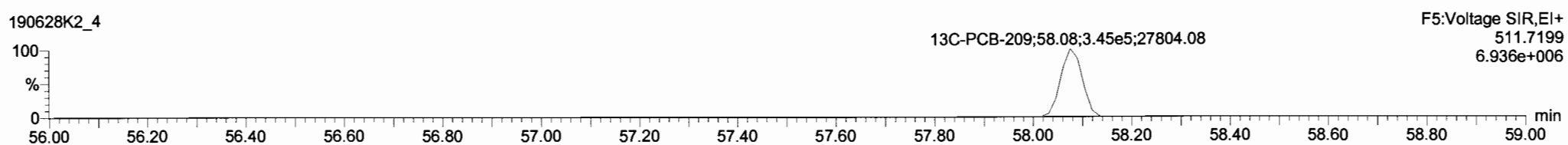
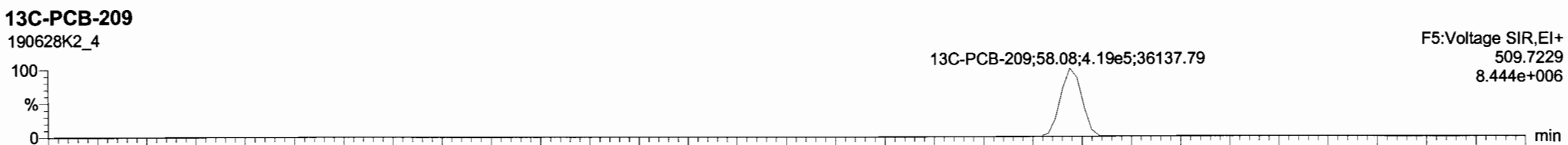
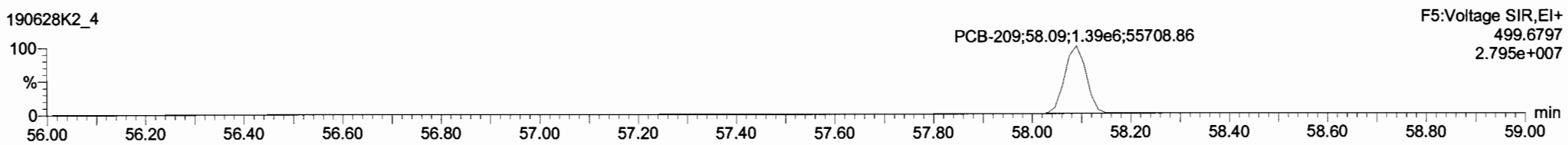
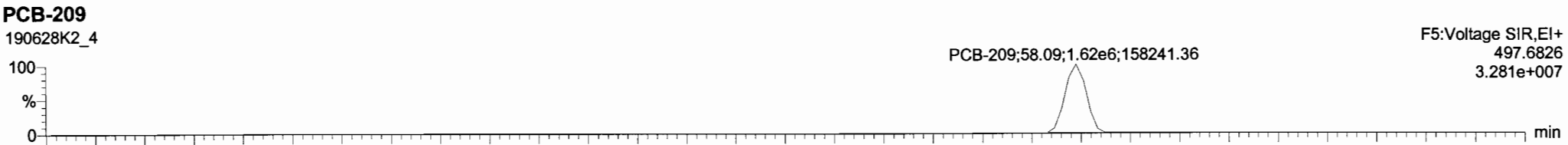
**PFK5**



Dataset: Untitled

Last Altered: Saturday, June 29, 2019 12:04:52 Pacific Daylight Time  
Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_4, Date: 28-Jun-2019, Time: 19:38:24, ID: ST190628K2-4 PCB 209 CS4 19C1107, Description: PCB 209 CS4 19C1107



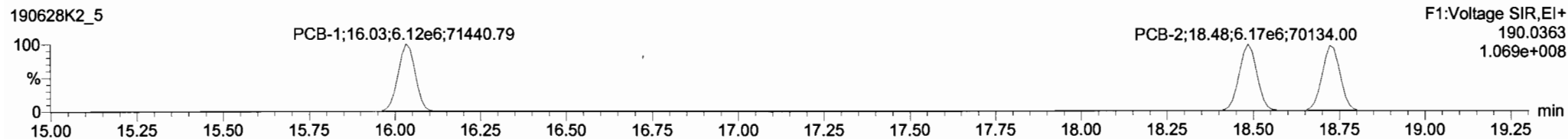
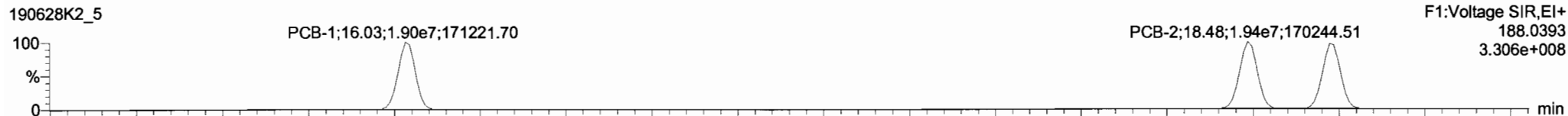
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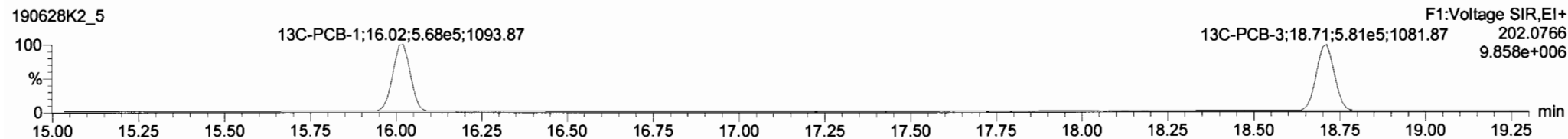
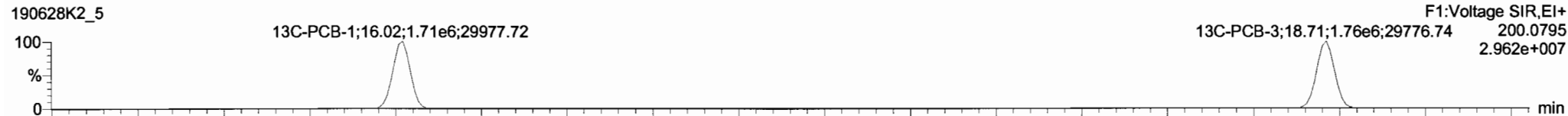
Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_5, Date: 28-Jun-2019, Time: 20:39:52, ID: ST190628K2-5 PCB 209 CS5 19C1108, Description: PCB 209 CS5 19C1108

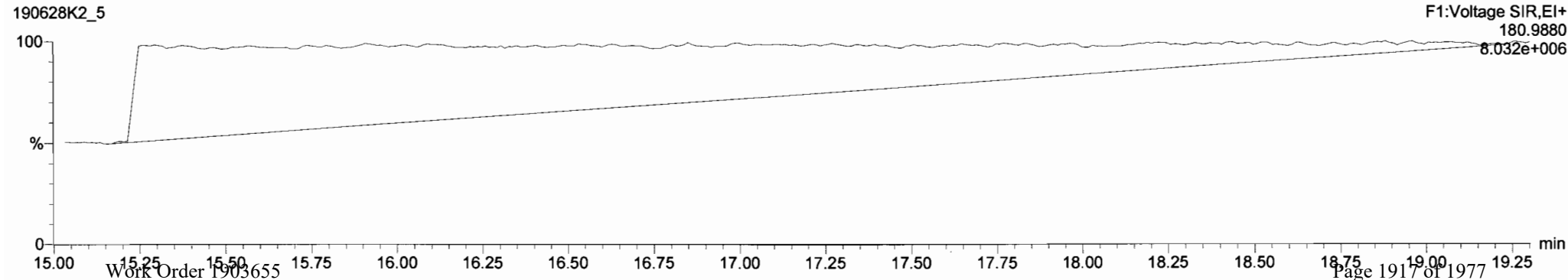
**PCB-1**



**13C-PCB-1**



**PFK1**



Vista Analytical Laboratory VG-11

Dataset: Untitled

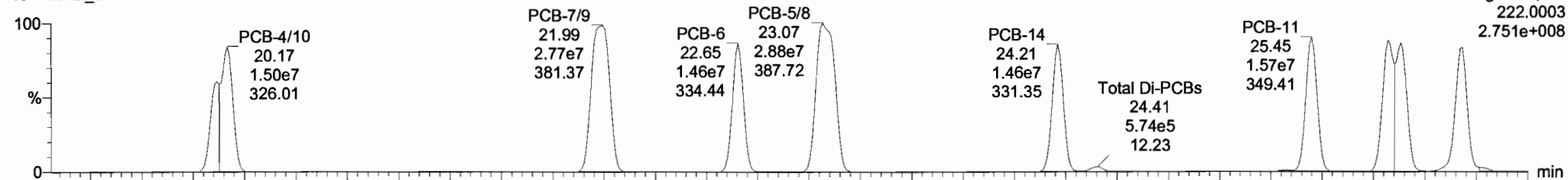
Last Altered: Saturday, June 29, 2019 12:04:52 Pacific Daylight Time

Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

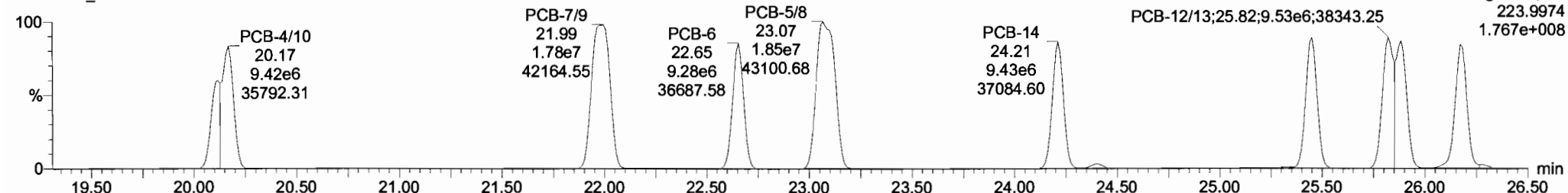
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PCB-4/10

190628K2\_5

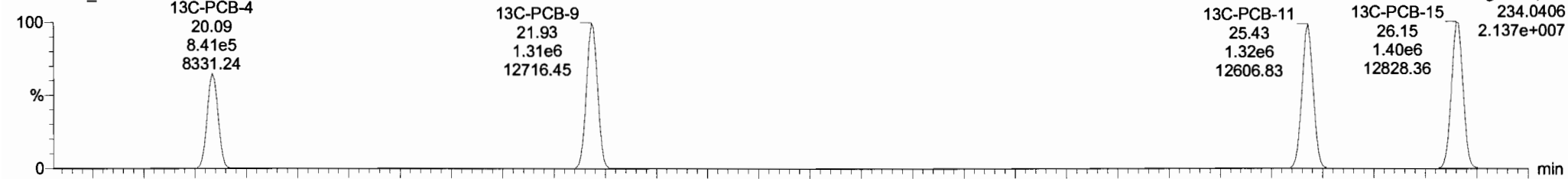


190628K2\_5

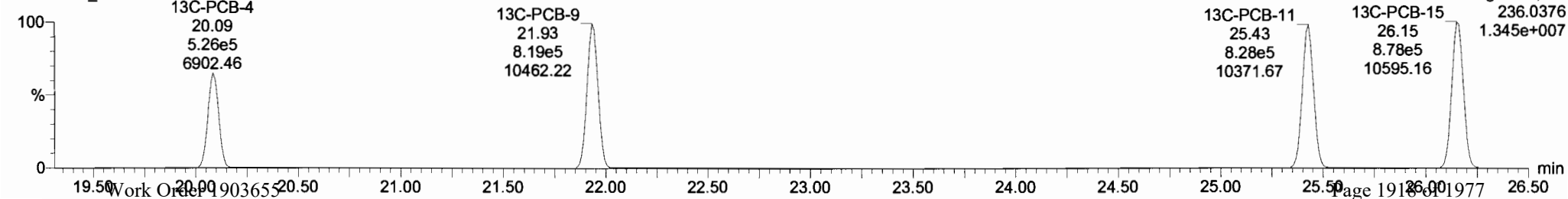


13C-PCB-4

190628K2\_5



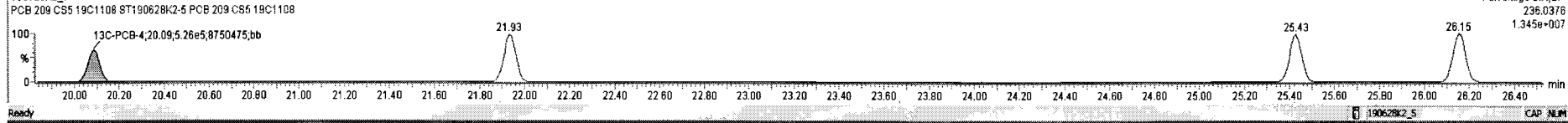
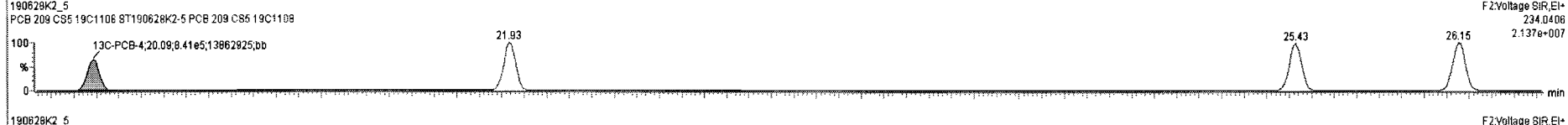
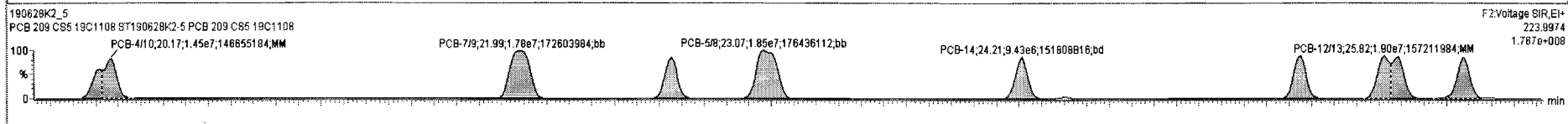
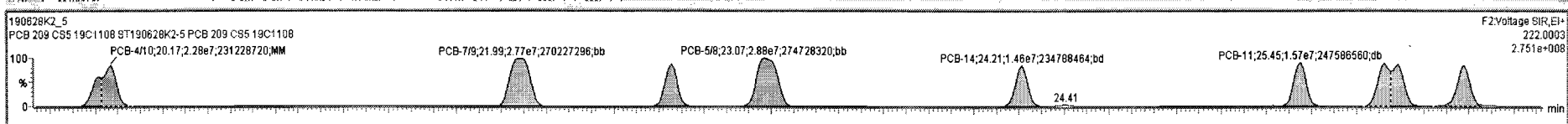
190628K2\_5



190628K2\_5 - ST190628K2-5 PCB 209 CS5 19C1108 - PCB 209 CS5 19C1108

#	Name	Resp	RA	n/y	RRF	w/Avol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	3246		0.0518	3246
225	225 Total Di-PCBs				4.0592	1.000	0.00		0.000		NO	13080		33.3	13080
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	8463		0.123	8463
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	17720		1.06	17720
228	228 Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	45340		1.51	45340
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	44100		0.595	44100
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	5423		0.369	5423
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	15290		0.287	15290
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	30690		2.48	30690
233	233 Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	25420		4.36	25420
234	234 4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	9538		0.572	9538
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	3276		0.241	3276
236	236 Total Nona-PCBs				0.9446	1.000	0.00		0.000		NO	3250		0.351	3250

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	** Ratio (Pres)	RA	n/y	EMPC	Conc.
1	4 PCB-4/10	20.17	20.17	2.284e7	1.448e7	1.560	1.56	NO	2140.3	2140.3
2	5 PCB-7/9	21.99	21.99	2.771e7	1.780e7	1.560	1.56	NO	2185.9	2185.9
3	6 PCB-6	22.84	22.85	1.457e7	9.281e6	1.560	1.57	NO	1099.3	1099.3
4	7 PCB-5/8	23.06	23.07	2.877e7	1.847e7	1.560	1.56	NO	2190.4	2190.4
5	8 PCB-14	24.22	24.21	1.459e7	9.427e6	1.560	1.55	NO	1083.6	1083.6
6	9 PCB-11	25.45	25.45	1.572e7	9.987e6	1.560	1.57	NO	1083.5	1083.5
7	10 PCB-12/13	25.82	25.82	2.943e7	1.895e7	1.560	1.55	NO	2173.9	2173.9



Vista Analytical Laboratory VG-11

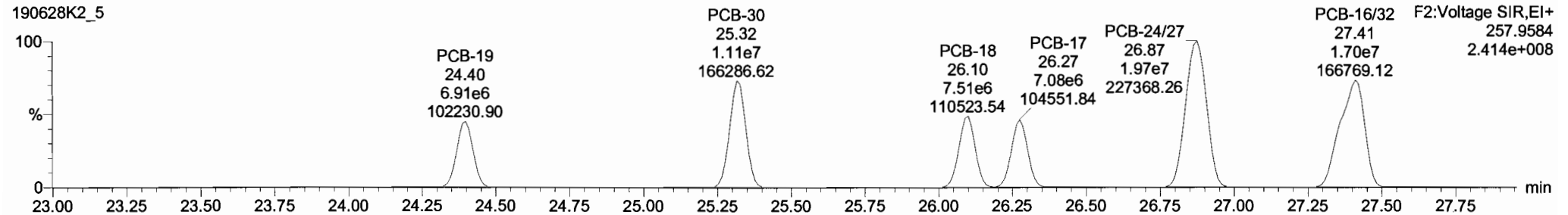
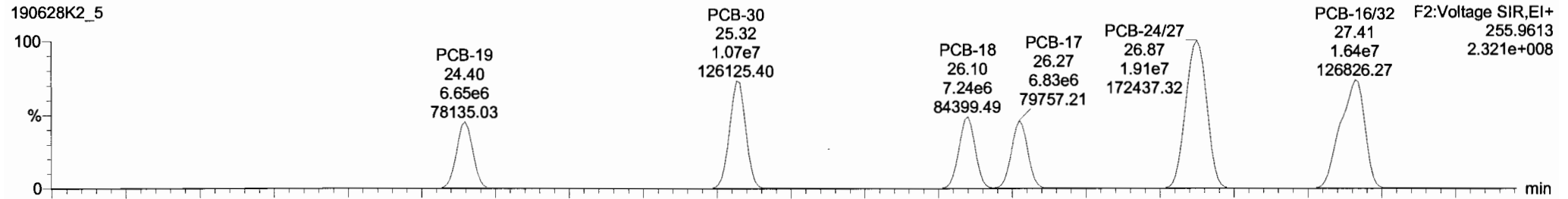
Dataset: Untitled

Last Altered: Saturday, June 29, 2019 12:04:52 Pacific Daylight Time

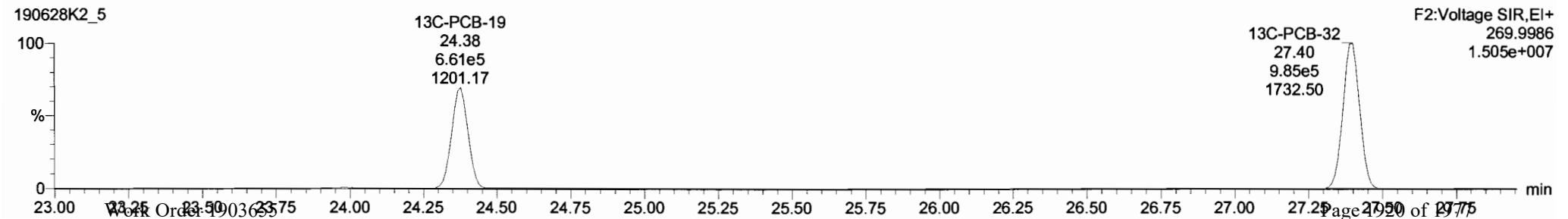
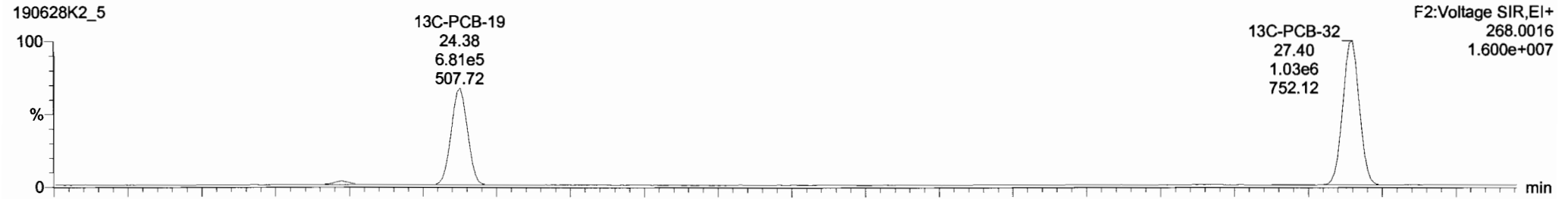
Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_5, Date: 28-Jun-2019, Time: 20:39:52, ID: ST190628K2-5 PCB 209 CS5 19C1108, Description: PCB 209 CS5 19C1108

PCB-19



13C-PCB-19



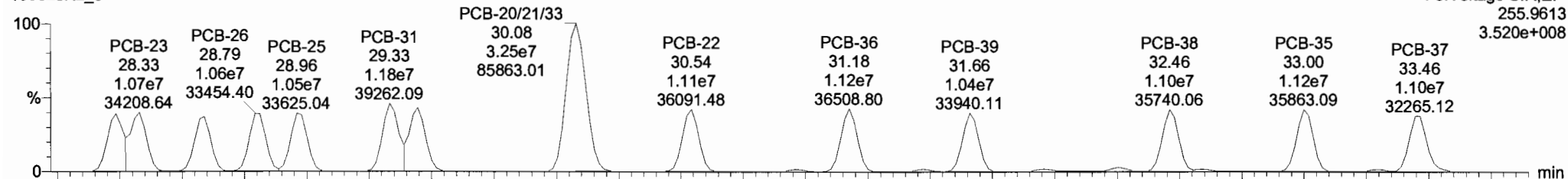
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Last Altered: Saturday, June 29, 2019 12:04:52 Pacific Daylight Time  
Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

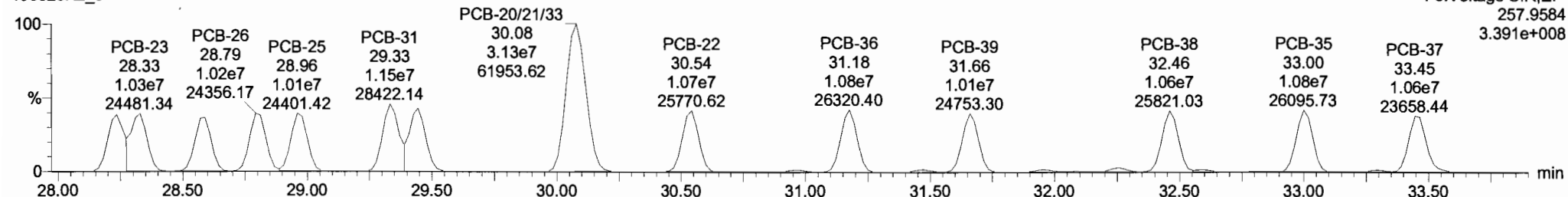
Name: 190628K2\_5, Date: 28-Jun-2019, Time: 20:39:52, ID: ST190628K2-5 PCB 209 CS5 19C1108, Description: PCB 209 CS5 19C1108

PCB-34

190628K2\_5

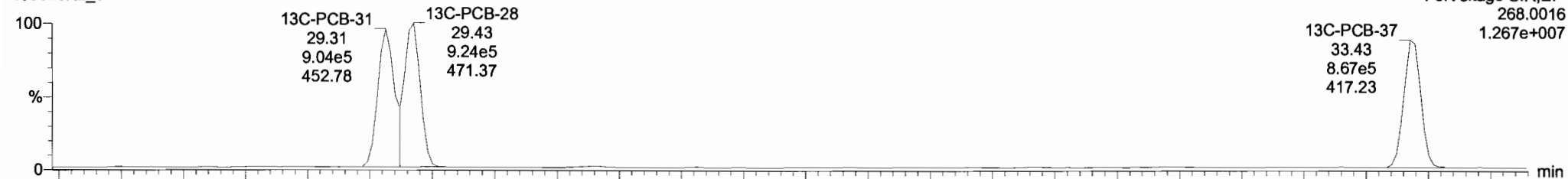


190628K2\_5

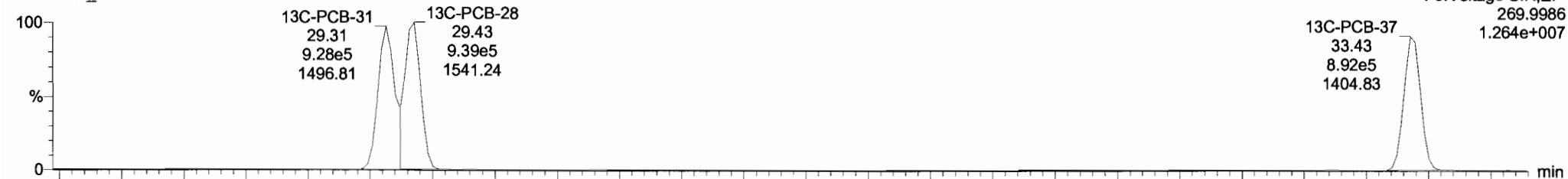


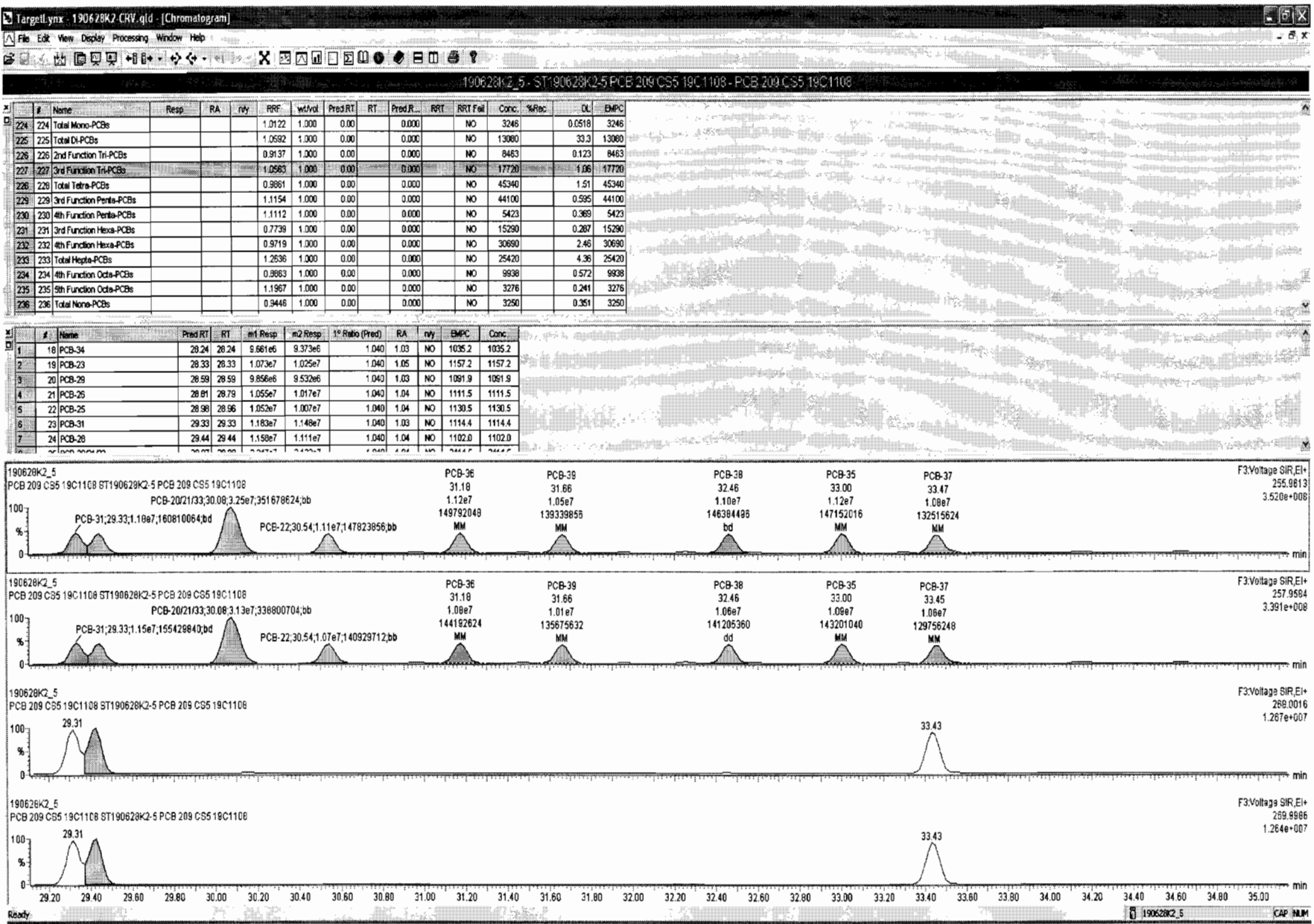
13C-PCB-28

190628K2\_5



190628K2\_5







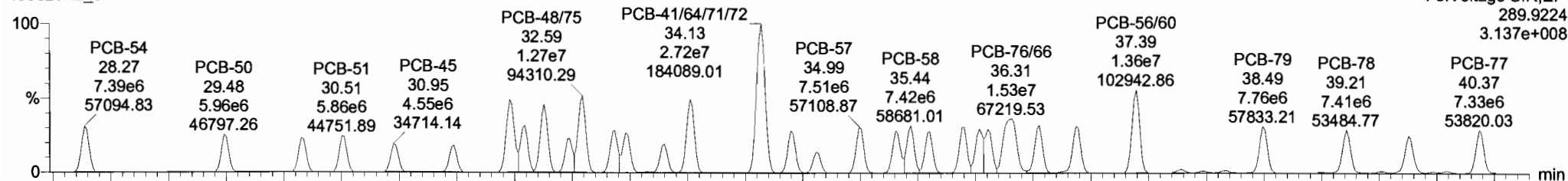
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Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

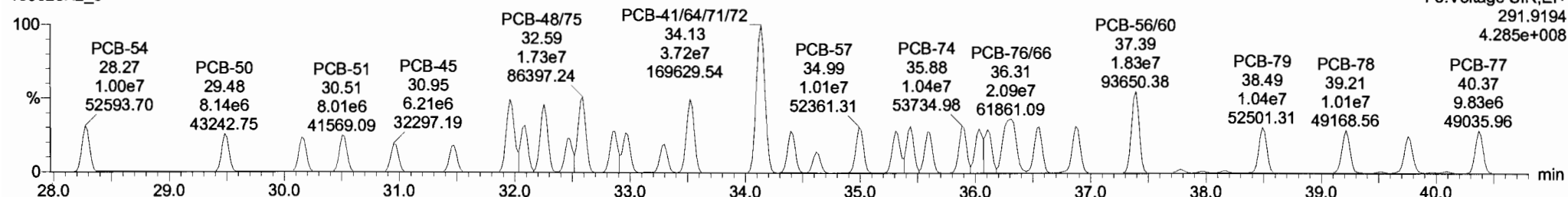
Name: 190628K2\_5, Date: 28-Jun-2019, Time: 20:39:52, ID: ST190628K2-5 PCB 209 CS5 19C1108, Description: PCB 209 CS5 19C1108

PCB-54

190628K2\_5

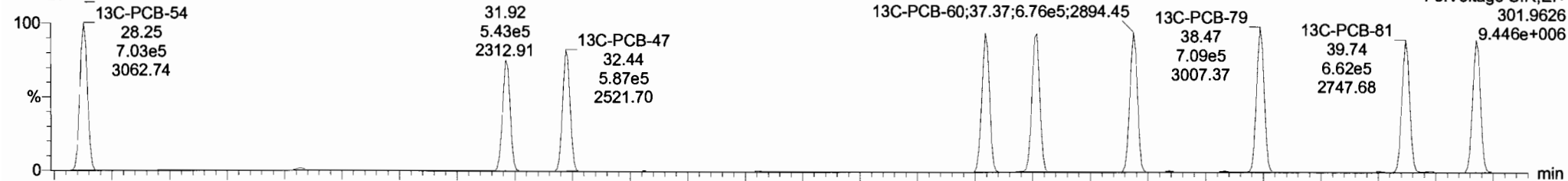


190628K2\_5

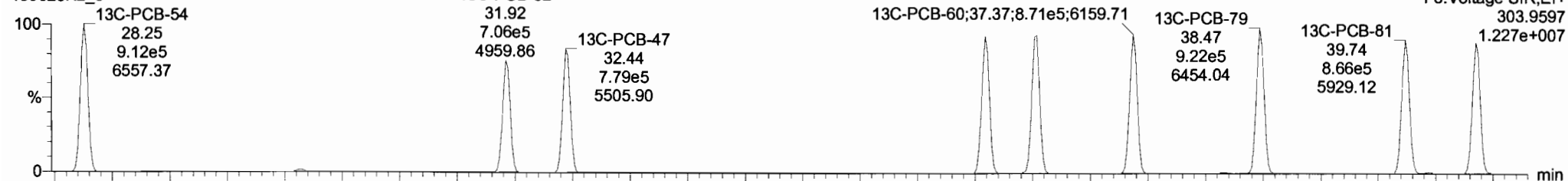


13C-PCB-54

190628K2\_5



190628K2\_5

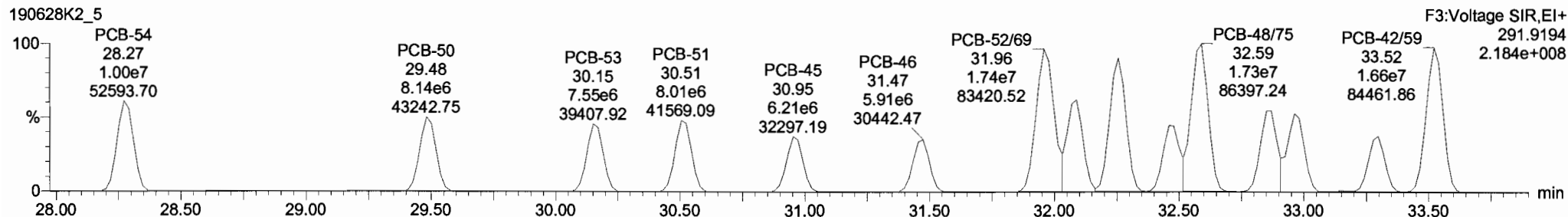
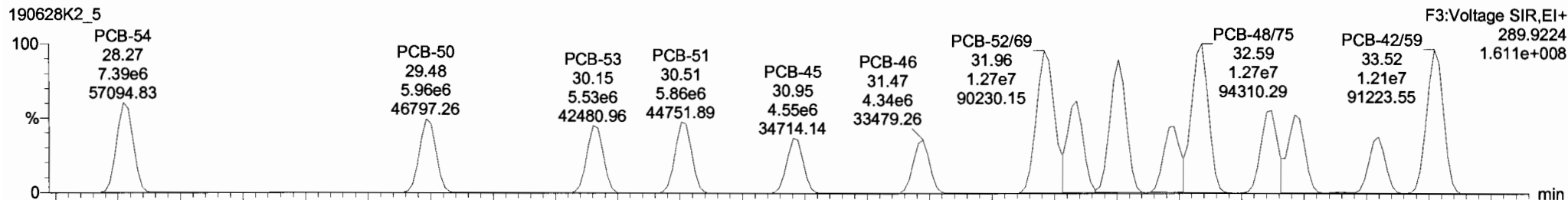


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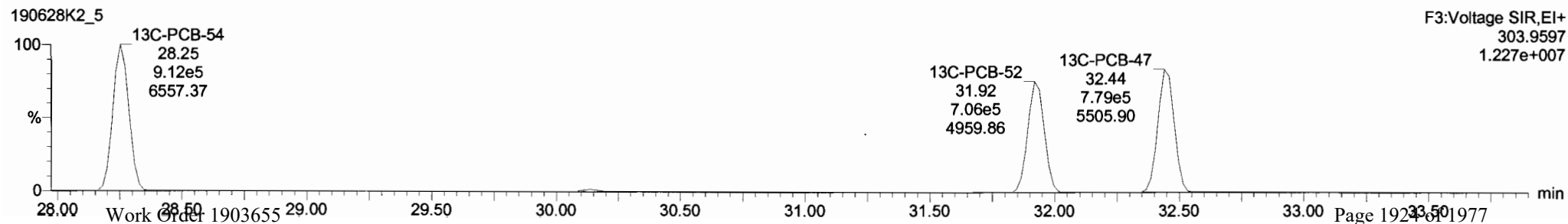
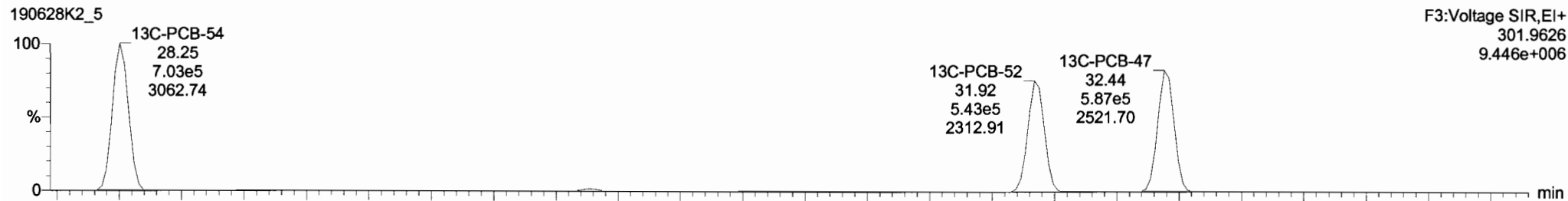
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Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_5, Date: 28-Jun-2019, Time: 20:39:52, ID: ST190628K2-5 PCB 209 CS5 19C1108, Description: PCB 209 CS5 19C1108

PCB-50



13C-PCB-52

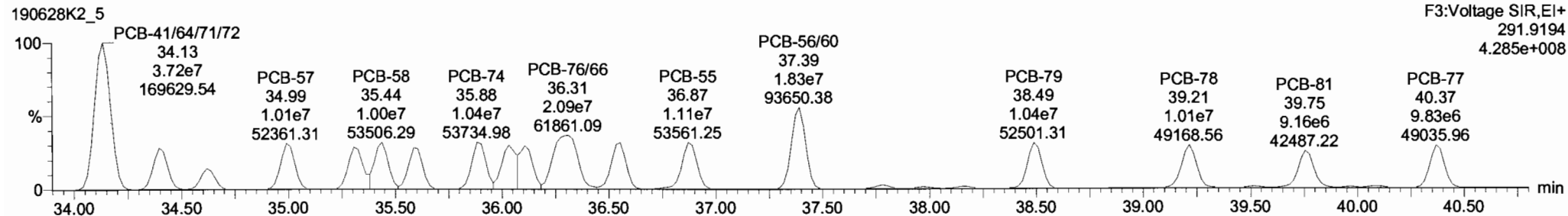
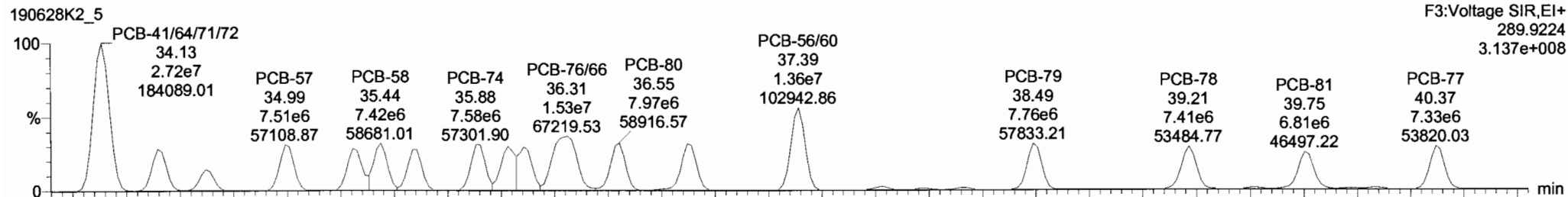


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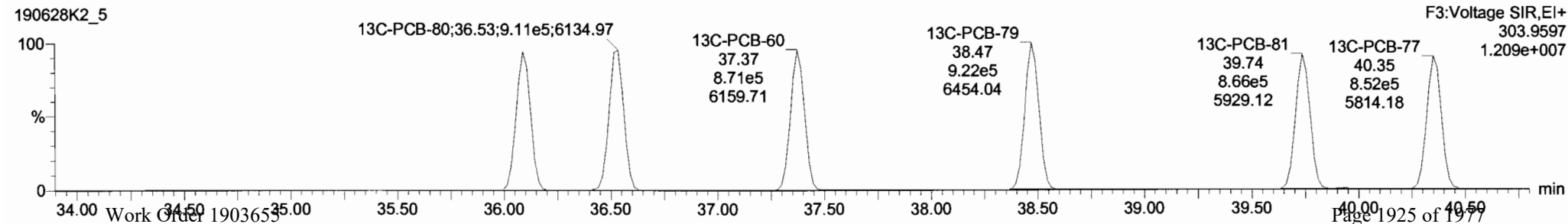
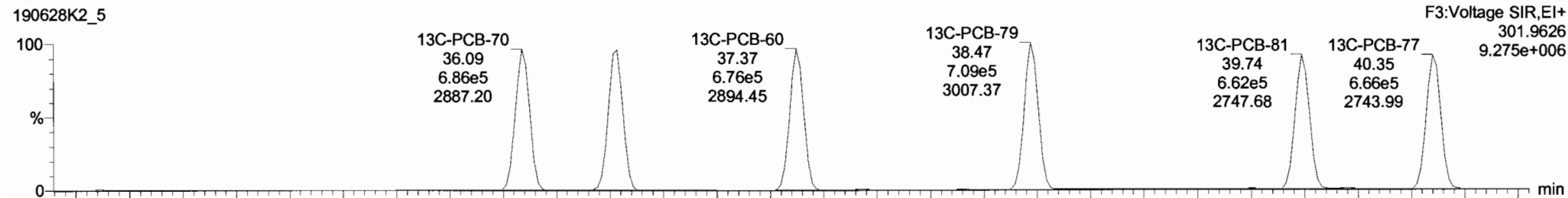
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Name: 190628K2\_5, Date: 28-Jun-2019, Time: 20:39:52, ID: ST190628K2-5 PCB 209 CS5 19C1108, Description: PCB 209 CS5 19C1108

**PCB-68**



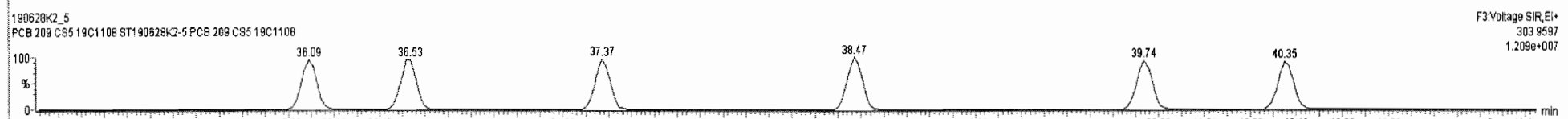
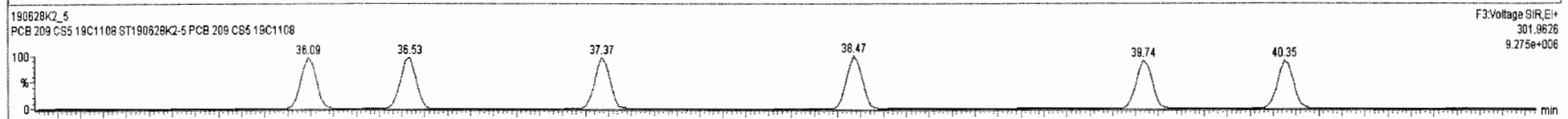
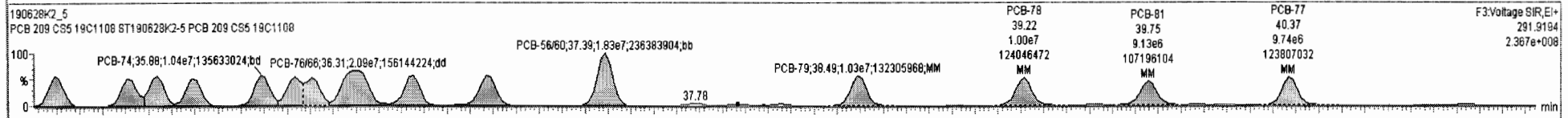
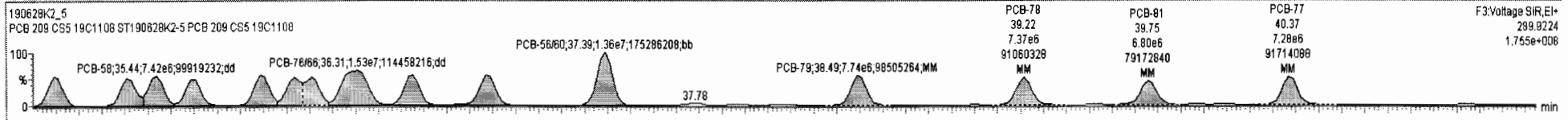
**13C-PCB-60**



190628K2\_5 - ST190628K2-5 PCB 209 CS5 19C1108 - PCB 209 CS5 19C1108

#	Name	Resp	RA	nly	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0122	1.000	0.00	0.000			NO	3246		0.0518	3246
225	225 Total Di-PCBs				1.0592	1.000	0.00	0.000			NO	13080		33.3	13080
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00	0.000			NO	8463		0.123	8463
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00	0.000			NO	17720		1.06	17720
228	228 Total Tetra-PCBs				0.9661	1.000	0.00	0.000			NO	45340		1.51	45340
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00	0.000			NO	44100		0.595	44100
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00	0.000			NO	5423		0.369	5423
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00	0.000			NO	15290		0.287	15290
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00	0.000			NO	30690		2.46	30690
233	233 Total Hepta-PCBs				1.2636	1.000	0.00	0.000			NO	25420		4.36	25420
234	234 4th Function Octa-PCBs				0.8863	1.000	0.00	0.000			NO	9938		0.572	9938
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00	0.000			NO	3276		0.241	3276
236	236 Total Nona-PCBs				0.9446	1.000	0.00	0.000			NO	3250		0.351	3250

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	32 PCB-54	28.27	28.27	7.392e6	1.004e7	0.770	0.74	NO	1094.4	1094.4
2	33 PCB-50	29.49	29.48	5.959e6	8.141e6	0.770	0.73	NO	1117.9	1117.9
3	34 PCB-53	30.16	30.15	5.527e6	7.549e6	0.770	0.73	NO	1096.4	1096.4
4	35 PCB-51	30.52	30.51	5.862e6	8.007e6	0.770	0.73	NO	1085.1	1085.1
5	36 PCB-45	30.96	30.95	4.549e6	6.211e6	0.770	0.73	NO	1066.5	1066.5
6	37 PCB-46	31.45	31.47	4.337e6	5.907e6	0.770	0.73	NO	1088.6	1088.6
7	38 PCB-52/69	31.96	31.96	1.273e7	1.745e7	0.770	0.73	NO	2213.5	2213.5



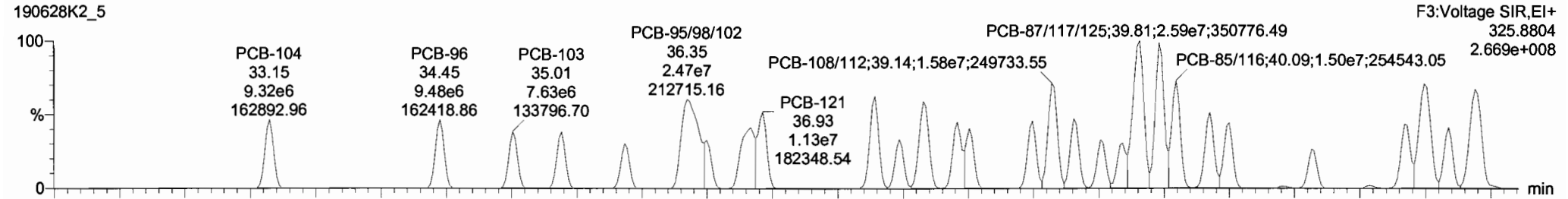
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Last Altered: Saturday, June 29, 2019 12:04:52 Pacific Daylight Time  
Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

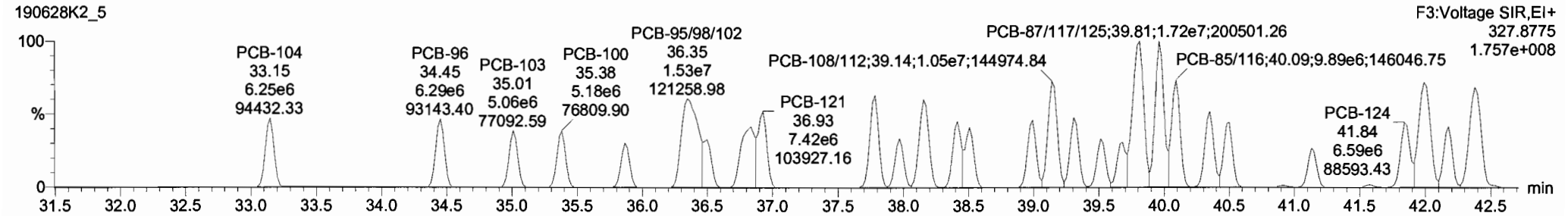
Name: 190628K2\_5, Date: 28-Jun-2019, Time: 20:39:52, ID: ST190628K2-5 PCB 209 CS5 19C1108, Description: PCB 209 CS5 19C1108

PCB-104

190628K2\_5

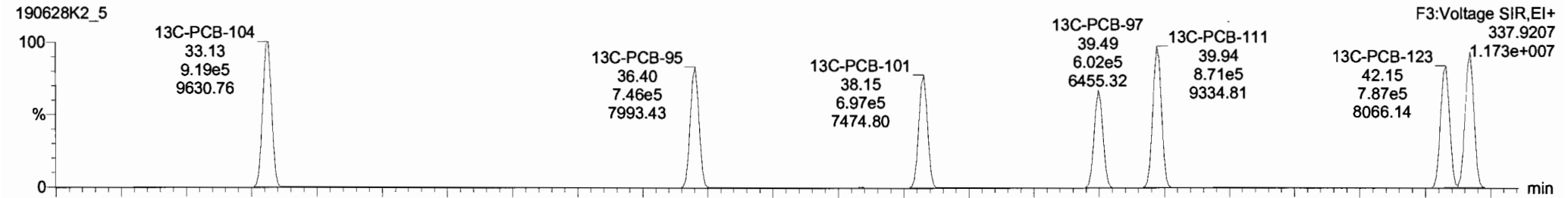


190628K2\_5

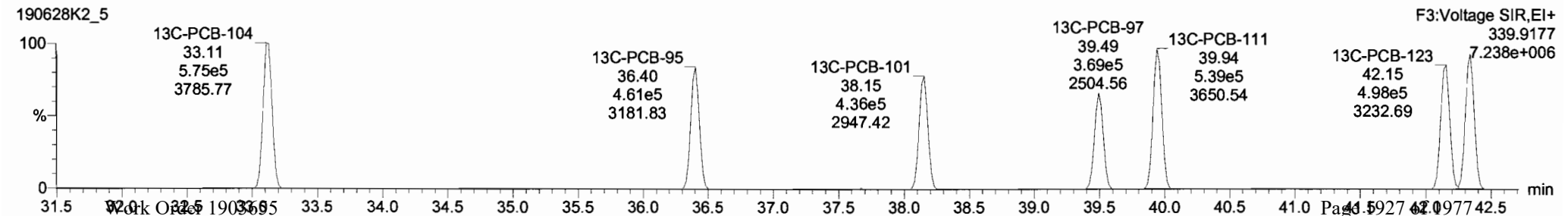


13C-PCB-104

190628K2\_5

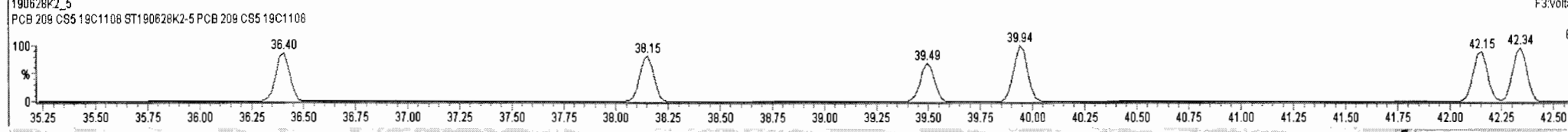
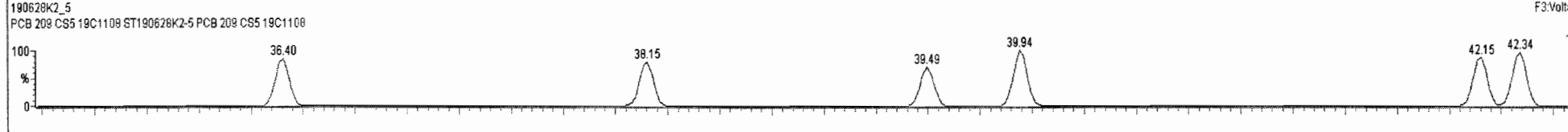
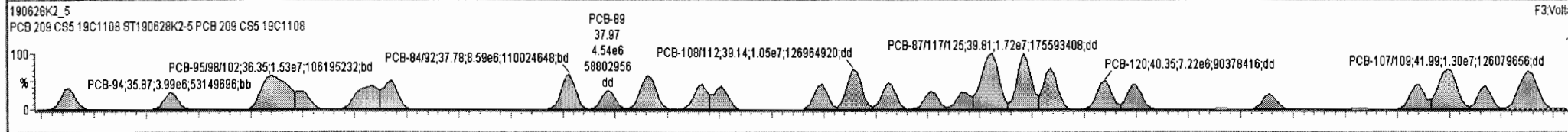
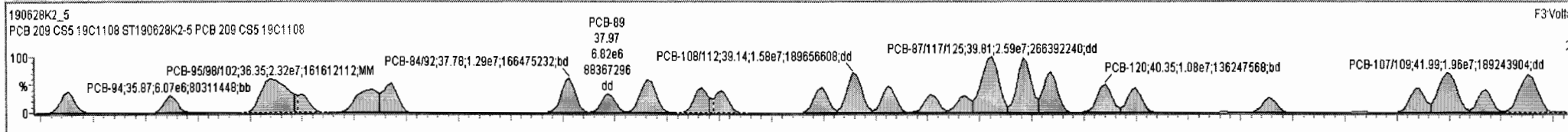


190628K2\_5



#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	3246		0.0518	3246
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	13080		33.3	13080
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	8463		0.123	8463
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	17720		1.06	17720
228	228 Total Tetra-PCBs				0.9981	1.000	0.00		0.000		NO	45340		1.51	45340
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	44100		0.595	44100
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	5423		0.389	5423
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	15290		0.287	15290
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	30690		2.46	30690
233	233 Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	25420		4.36	25420
234	234 4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	9938		0.572	9938
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	3276		0.241	3276
236	236 Total Nona-PCBs				0.9446	1.000	0.00		0.000		NO	3250		0.351	3250

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	64 PCB-104	33.15	33.15	9.324e6	6.249e6	1.560	1.49	NO	1048.0	1048.0
2	65 PCB-96	34.47	34.45	9.481e6	6.289e6	1.560	1.51	NO	1060.0	1060.0
3	66 PCB-103	35.03	35.01	7.633e6	5.060e6	1.560	1.51	NO	1097.2	1097.2
4	67 PCB-100	35.40	35.38	7.774e6	5.181e6	1.560	1.50	NO	1115.1	1115.1
5	68 PCB-94	35.89	35.87	6.072e6	3.993e6	1.560	1.52	NO	1078.1	1078.1
6	69 PCB-95/98/102	36.38	36.35	2.316e7	1.533e7	1.560	1.51	NO	3142.1	3142.1
7	70 PCB-93	36.51	36.50	6.642e6	4.339e6	1.560	1.53	NO	1081.7	1081.7



Vista Analytical Laboratory VG-11

Dataset: Untitled

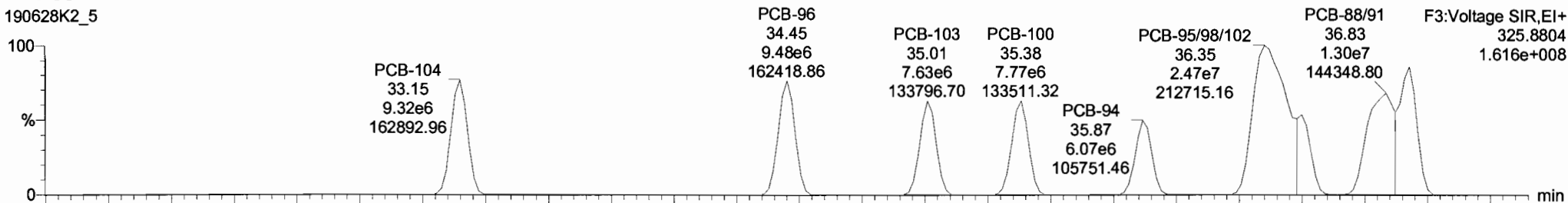
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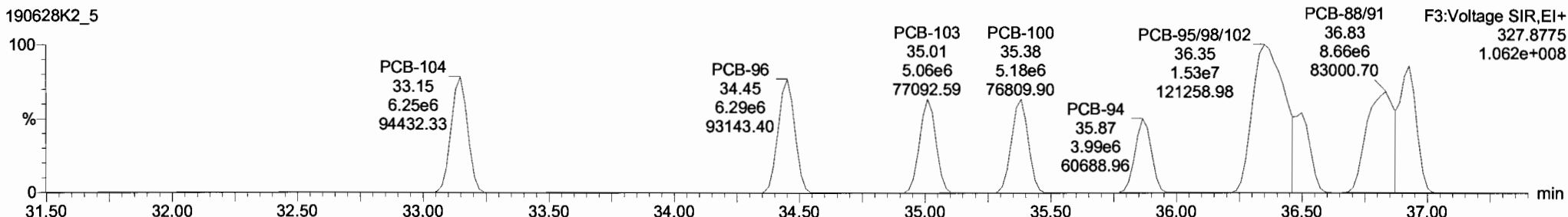
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PCB-96

190628K2\_5

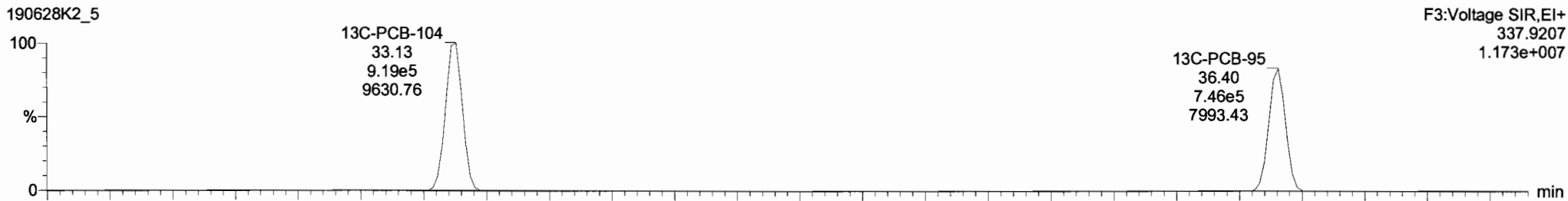


190628K2\_5

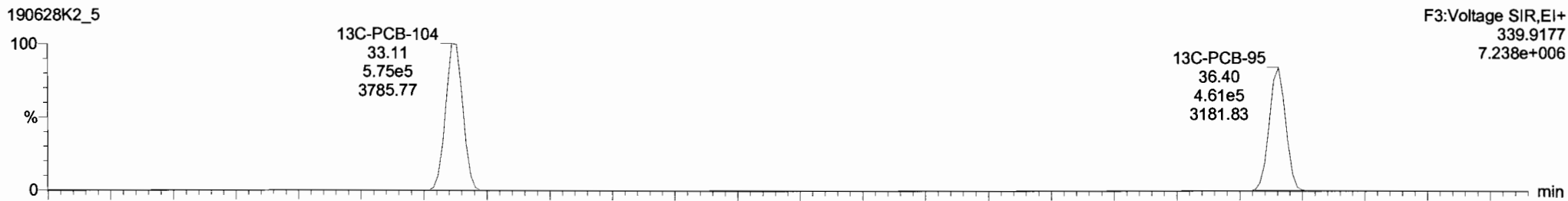


13C-PCB-95

190628K2\_5



190628K2\_5



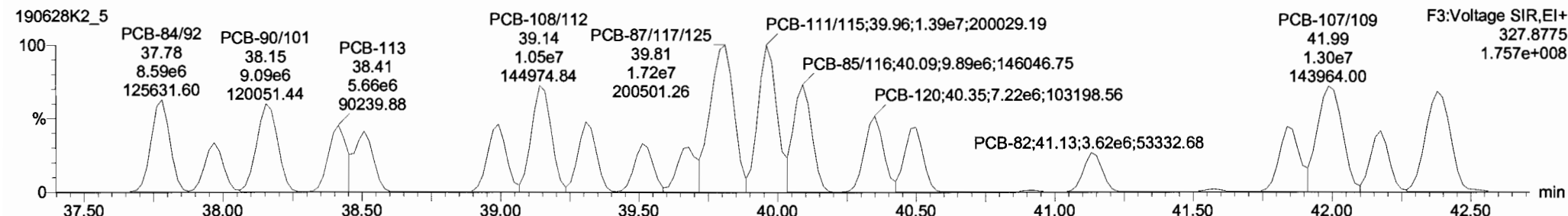
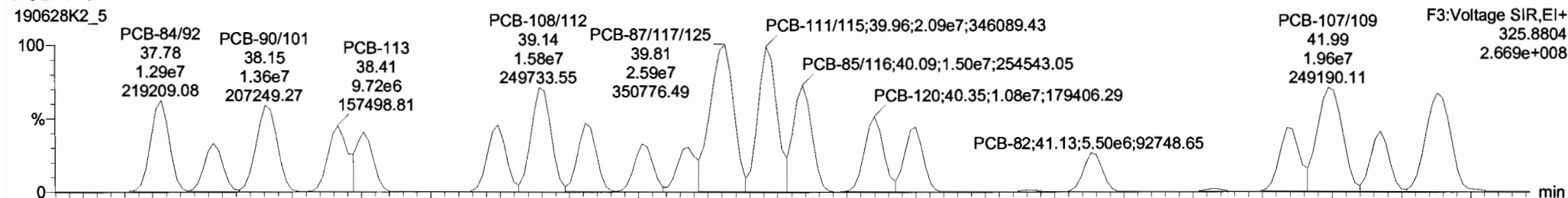
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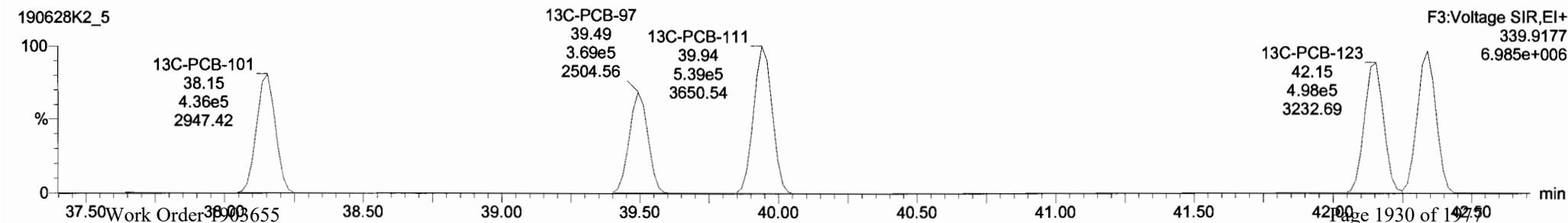
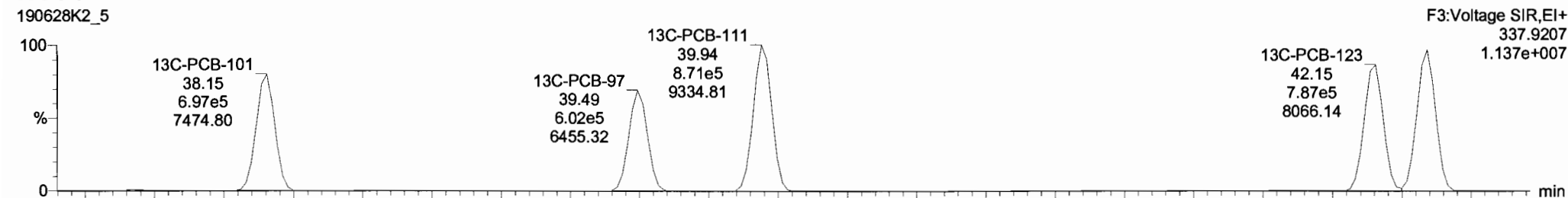
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**PCB-119**



**13C-PCB-111**





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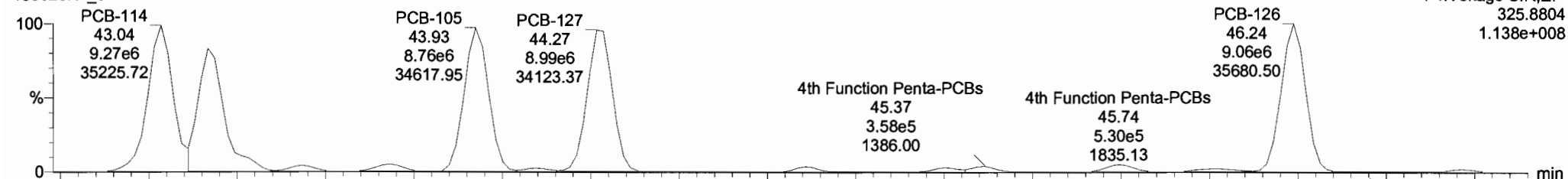
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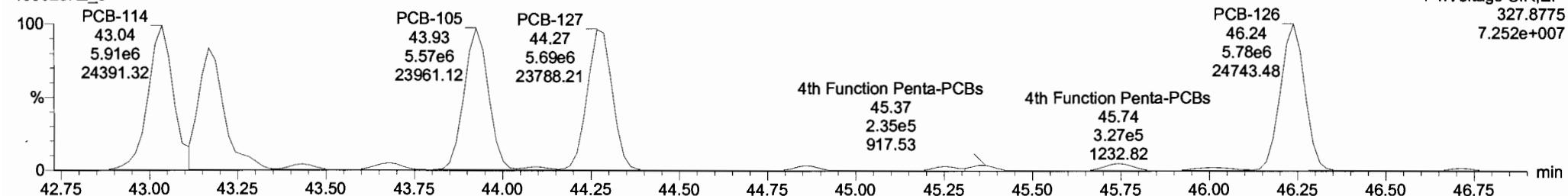
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**PCB-114**

190628K2\_5

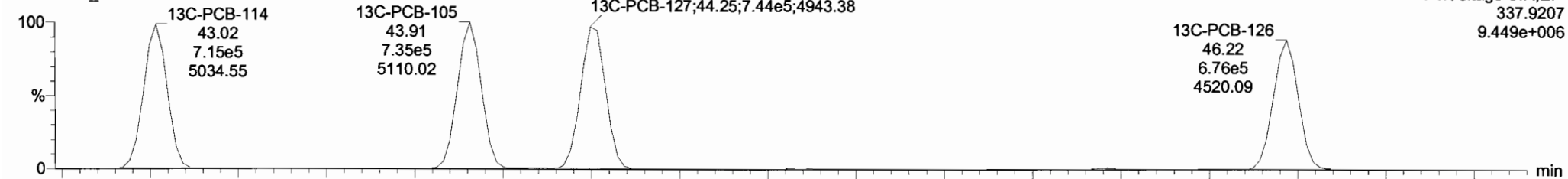


190628K2\_5

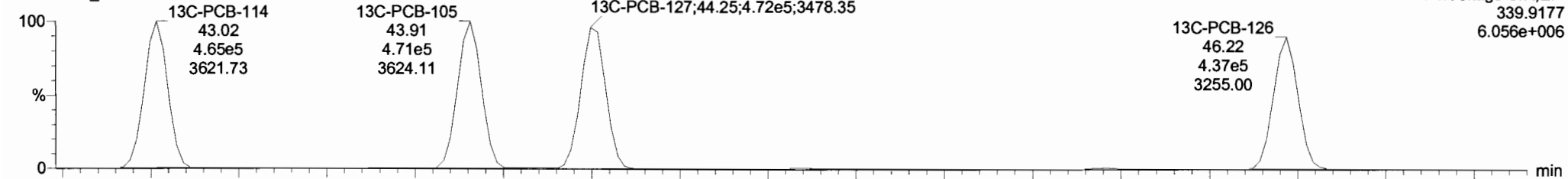


**13C-PCB-114**

190628K2\_5



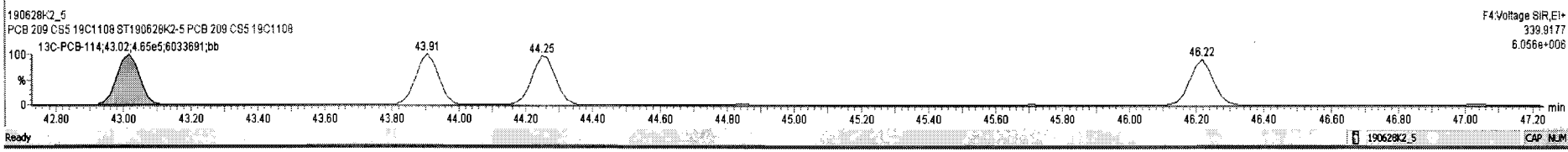
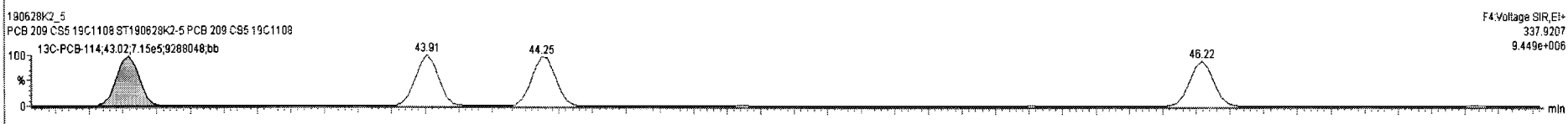
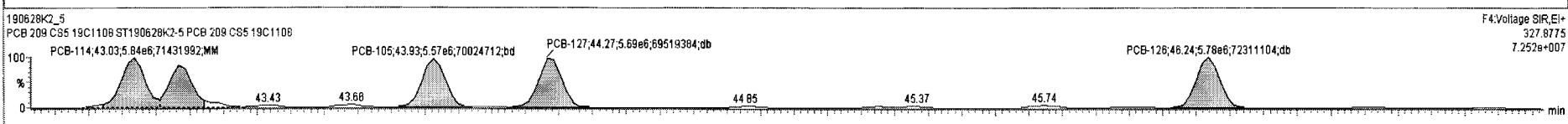
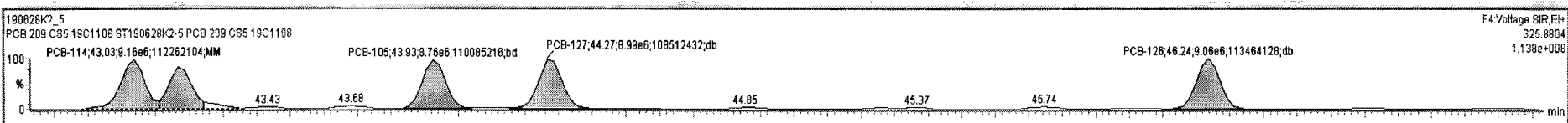
190628K2\_5



190628K2\_5 - ST190628K2-5 PCB 209 C 35 19C1108 - PCB 209 C55 19C1108

#	Name	Resp	RA	n/y	RRF	w/wol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	3246		0.0518	3246
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	13080		33.3	13080
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	8463		0.123	8463
227	227 3rd Function Tri-PCBs				1.0583	1.000	0.00		0.000		NO	17720		1.05	17720
228	228 Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	45340		1.51	45340
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	44100		0.595	44100
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	5423		0.369	5423
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	15290		0.287	15290
232	232 4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	30690		2.46	30690
233	233 Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	25420		4.36	25420
234	234 4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	9938		0.572	9938
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	3276		0.241	3276
236	236 Total Nona-PCBs				0.9446	1.000	0.00		0.000		NO	3250		0.351	3250

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1% Ratio (Pred)	RA	n/y	EMPC	Conc.
1	93 PCB-114	43.04	43.03	9.158e6	5.840e6	1.560	1.57	NO	1094.2	1094.2
2	94 PCB-122	43.17	43.17	7.429e6	4.724e6	1.560	1.57	NO	1059.1	1059.1
3	95 PCB-105	43.92	43.93	8.763e6	5.570e6	1.550	1.57	NO	1079.4	1079.4
4	96 PCB-127	44.27	44.27	8.988e6	5.693e6	1.560	1.58	NO	1089.8	1089.8
5	97 PCB-126	46.24	46.24	9.058e6	5.784e6	1.560	1.57	NO	1100.0	1100.0

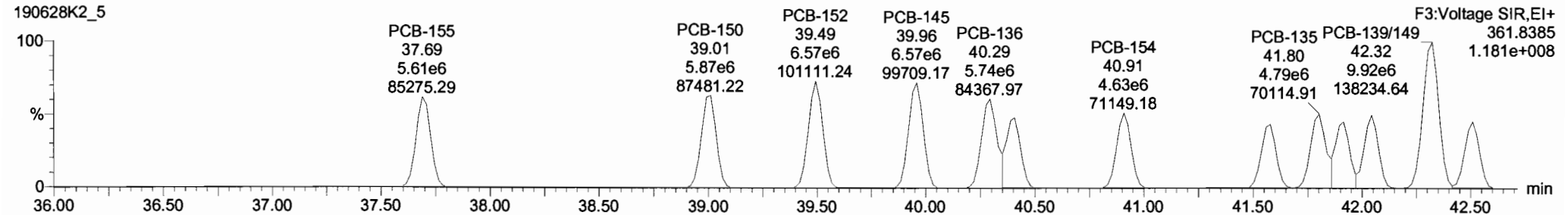
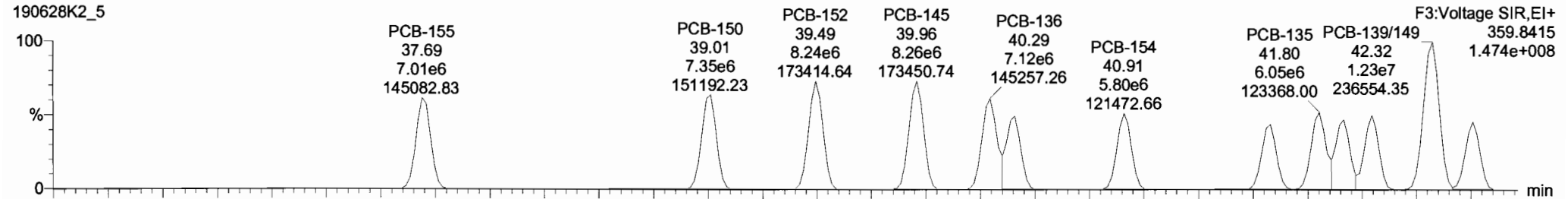


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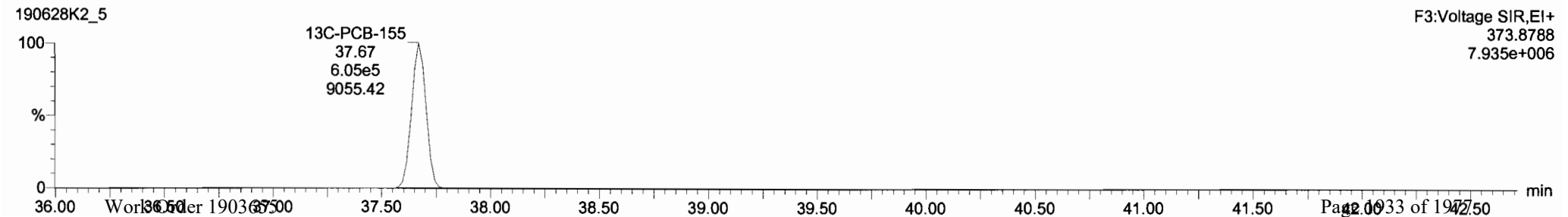
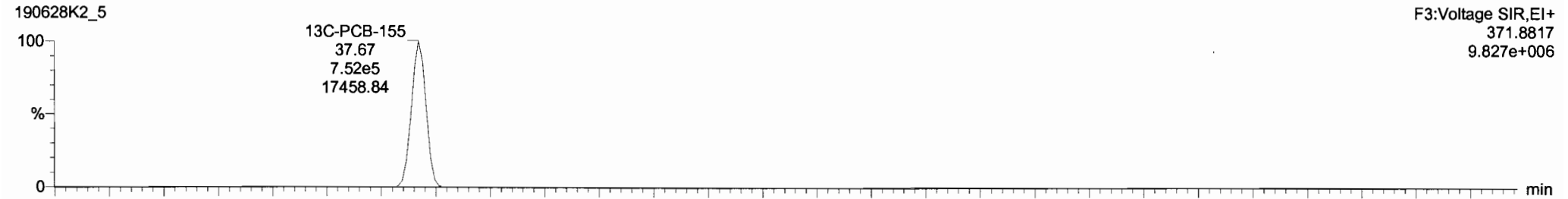
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Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_5, Date: 28-Jun-2019, Time: 20:39:52, ID: ST190628K2-5 PCB 209 CS5 19C1108, Description: PCB 209 CS5 19C1108

**PCB-155**



**13C-PCB-155**

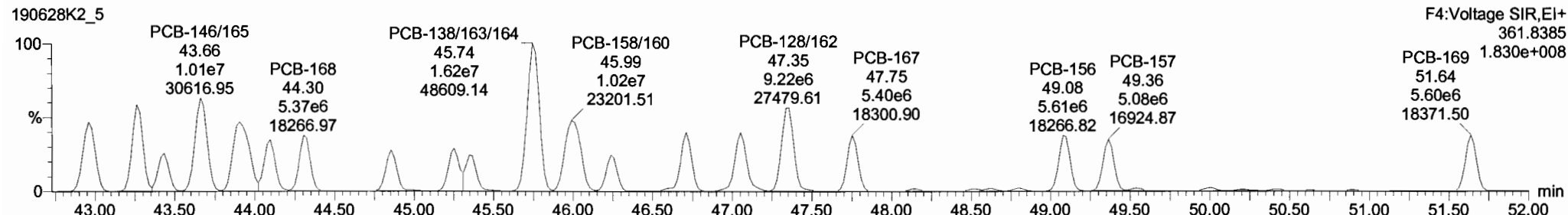
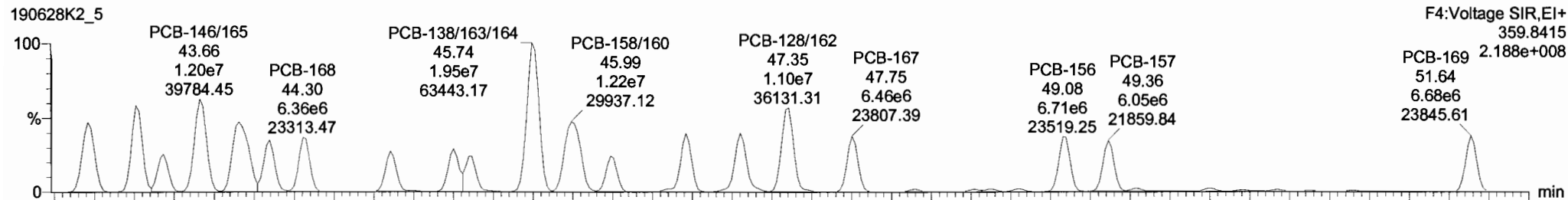


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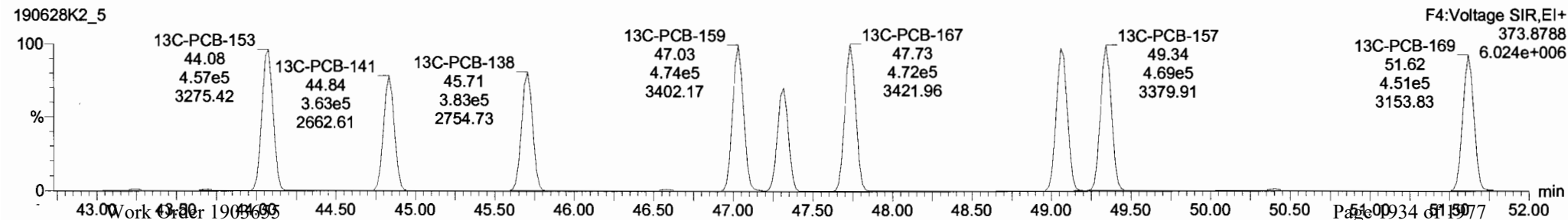
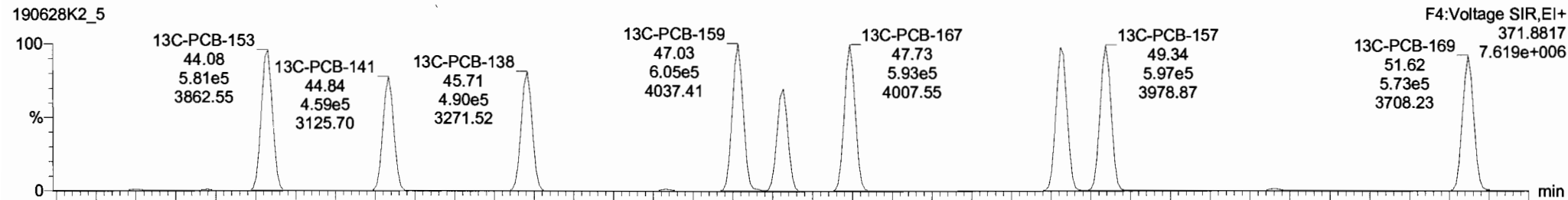
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Name: 190628K2\_5, Date: 28-Jun-2019, Time: 20:39:52, ID: ST190628K2-5 PCB 209 CS5 19C1108, Description: PCB 209 CS5 19C1108

**PCB-134/143**

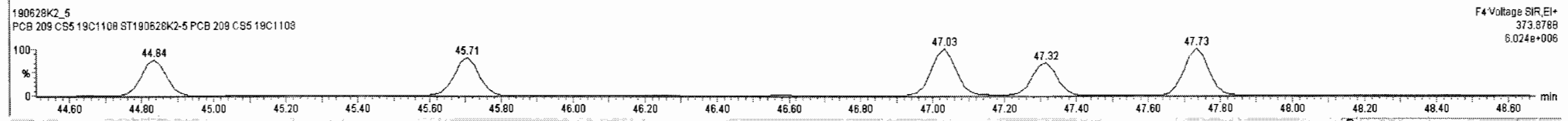
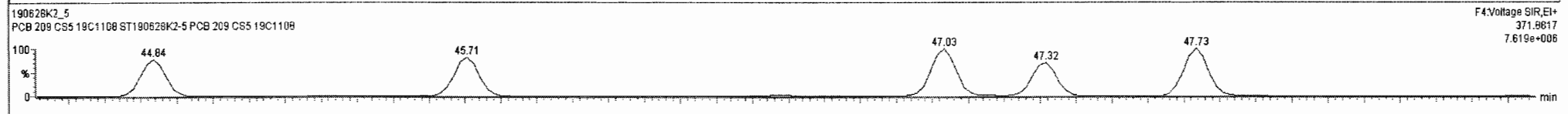
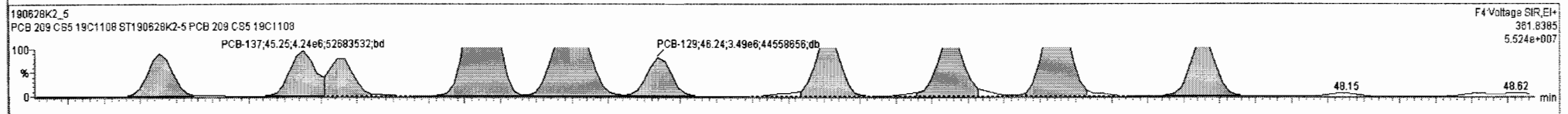
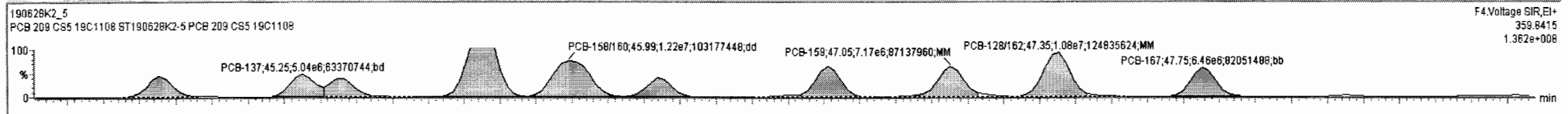


**13C-PCB-153**



#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	3246		0.0518	3246
225	225 Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	13080		33.3	13080
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	8463		0.123	8463
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00		0.000		NO	17720		1.06	17720
228	228 Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	45340		1.51	45340
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	44100		0.595	44100
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	5423		0.369	5423
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	15290		0.287	15290
232	232 4th Function Hexa-PCBs				0.9219	1.000	0.00		0.000		NO	30690		2.46	30690
233	233 Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	25420		4.36	25420
234	234 4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	9938		0.572	9938
235	235 5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	3276		0.241	3276
236	236 Total Nona-PCBs				0.9448	1.000	0.00		0.000		NO	3250		0.351	3250

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	111 PCB-134/143	42.96	42.96	9.239e6	7.695e6	1.240	1.20	NO	2223.8	2223.8
2	112 PCB-131/133	43.26	43.26	1.004e7	8.359e6	1.240	1.20	NO	2242.9	2242.9
3	113 PCB-142	43.45	43.43	4.376e6	3.658e6	1.240	1.20	NO	1092.7	1092.7
4	114 PCB-146/165	43.66	43.66	1.203e7	1.008e7	1.240	1.19	NO	2219.8	2219.8
5	115 PCB-132/161	43.91	43.91	1.214e7	1.010e7	1.240	1.20	NO	2198.9	2198.9
6	116 PCB-153	44.10	44.10	6.098e6	5.056e6	1.240	1.21	NO	1061.4	1061.4
7	117 PCB-158	44.30	44.31	6.364e6	5.367e6	1.240	1.19	NO	1108.2	1108.2

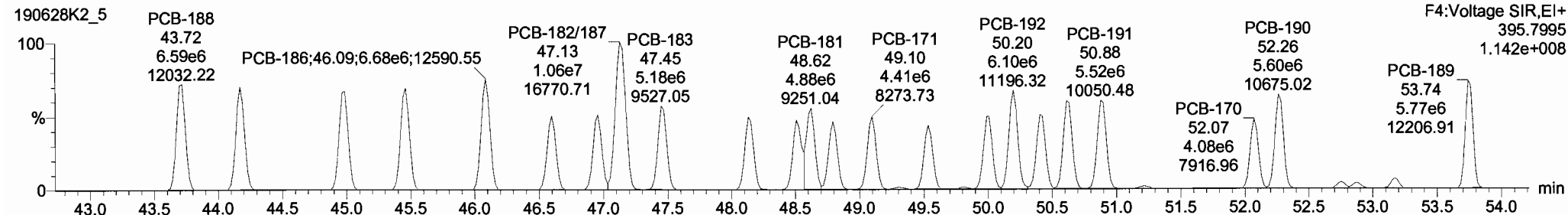
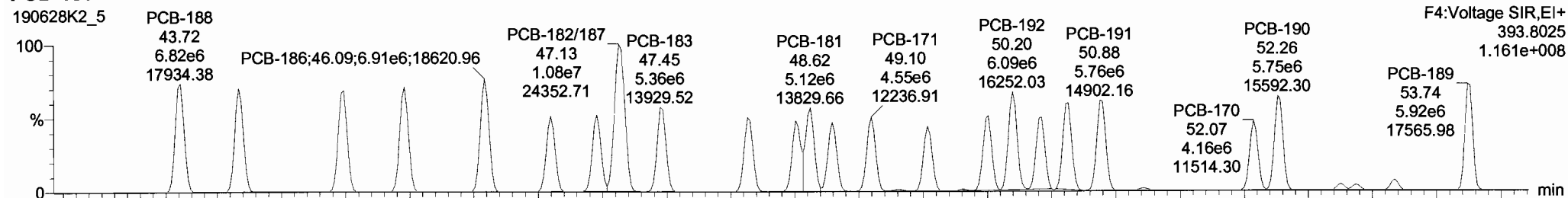


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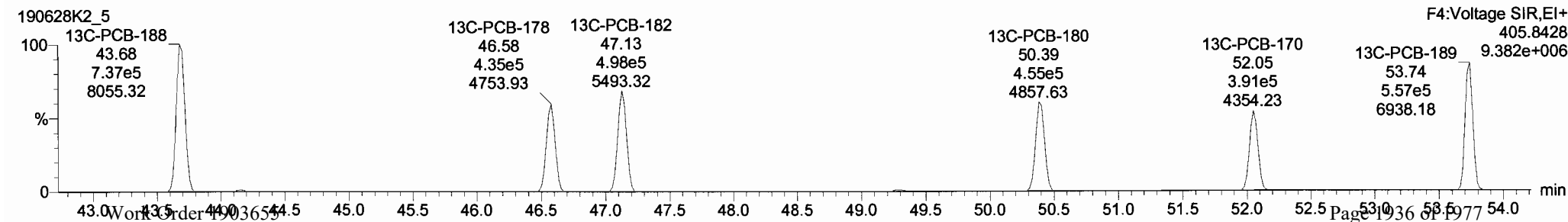
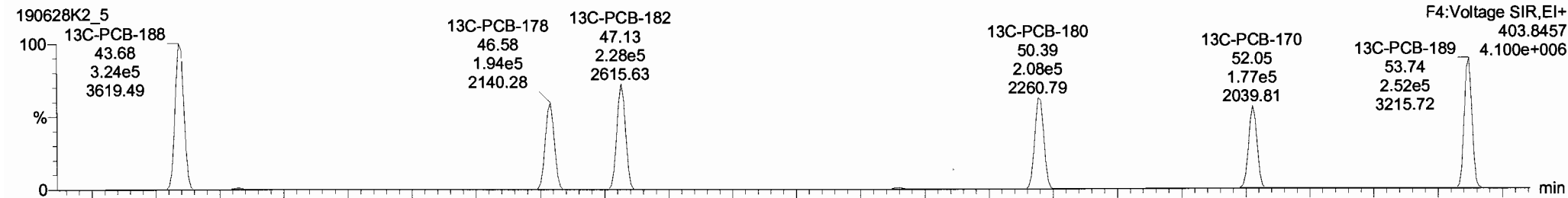
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Name: 190628K2\_5, Date: 28-Jun-2019, Time: 20:39:52, ID: ST190628K2-5 PCB 209 CS5 19C1108, Description: PCB 209 CS5 19C1108

PCB-188

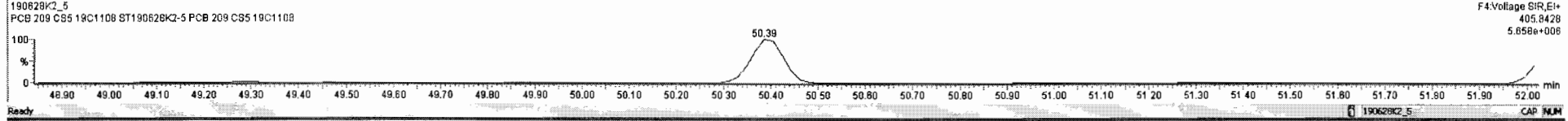
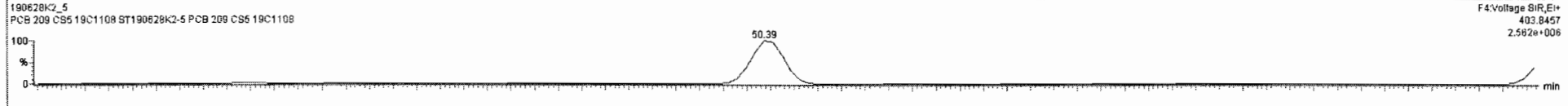
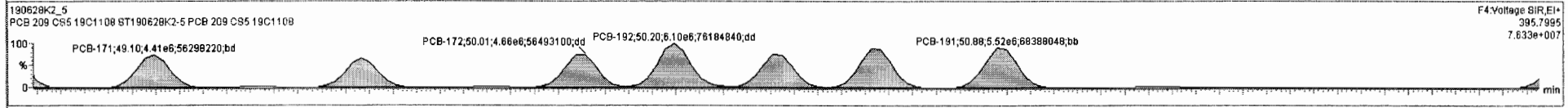
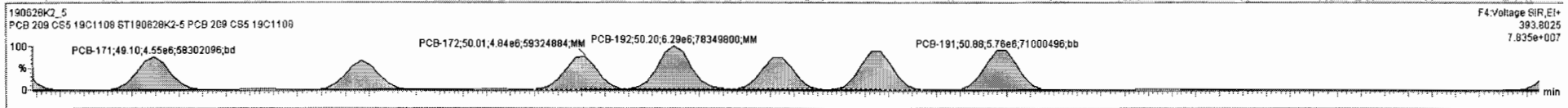


13C-PCB-188



#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R	RRR	RRR Fail	Conc	%Rec	DL	EMPC
224	Total Mono-PCBs				1.0122	1.000	0.00		0.000		NO	3246		0.0518	3246
225	Total Di-PCBs				1.0592	1.000	0.00		0.000		NO	13080		33.3	13080
226	2nd Function Tri-PCBs				0.9137	1.000	0.00		0.000		NO	8463		0.123	8463
227	3rd Function Tri-PCBs				1.0583	1.000	0.00		0.000		NO	17720		1.06	17720
228	Total Tetra-PCBs				0.9861	1.000	0.00		0.000		NO	45340		1.51	45340
229	3rd Function Penta-PCBs				1.1154	1.000	0.00		0.000		NO	44100		0.595	44100
230	4th Function Penta-PCBs				1.1112	1.000	0.00		0.000		NO	5423		0.369	5423
231	3rd Function Hexa-PCBs				0.7739	1.000	0.00		0.000		NO	15290		0.287	15290
232	4th Function Hexa-PCBs				0.9719	1.000	0.00		0.000		NO	30690		2.46	30690
233	Total Hepta-PCBs				1.2636	1.000	0.00		0.000		NO	25420		4.36	25420
234	4th Function Octa-PCBs				0.8863	1.000	0.00		0.000		NO	9536		0.572	9536
235	5th Function Octa-PCBs				1.1967	1.000	0.00		0.000		NO	3276		0.241	3276
236	Total Nona-PCBs				0.9446	1.000	0.00		0.000		NO	3250		0.351	3250

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1% Ratio (Pred)	RA	n/y	EMPC	Conc
1	131 PCB-188	43.72	43.72	6.824e6	6.589e6	1.050	1.04	NO	1059.4	1059.4
2	132 PCB-184	44.17	44.17	6.391e6	6.212e6	1.050	1.03	NO	1017.1	1017.1
3	133 PCB-179	44.96	44.99	6.417e6	6.196e6	1.050	1.04	NO	1010.6	1010.6
4	134 PCB-178	45.45	45.46	6.486e6	6.240e6	1.050	1.04	NO	1034.3	1034.3
5	135 PCB-186	46.07	46.08	6.909e6	6.684e6	1.050	1.03	NO	1051.6	1051.6
6	136 PCB-178	46.59	46.60	4.599e6	4.431e6	1.050	1.04	NO	1024.7	1024.7
7	137 PCB-175	46.95	46.96	4.733e6	4.606e6	1.050	1.03	NO	1037.1	1037.1



Dataset: Untitled

Last Altered: Saturday, June 29, 2019 12:04:52 Pacific Daylight Time

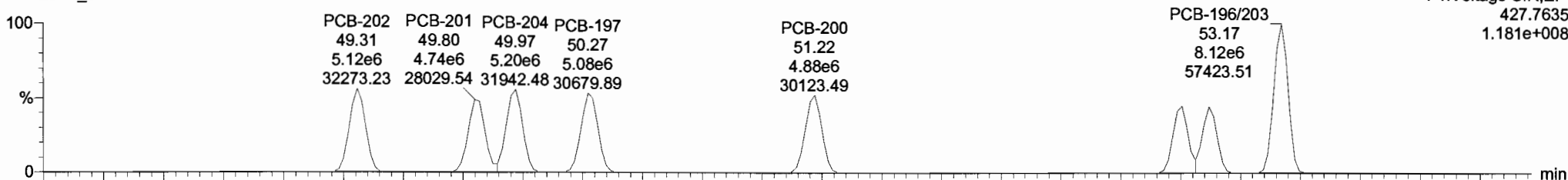
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**PCB-202**

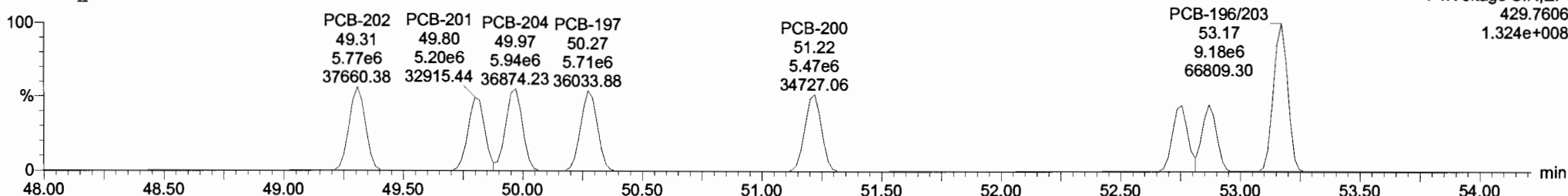
190628K2\_5

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190628K2\_5

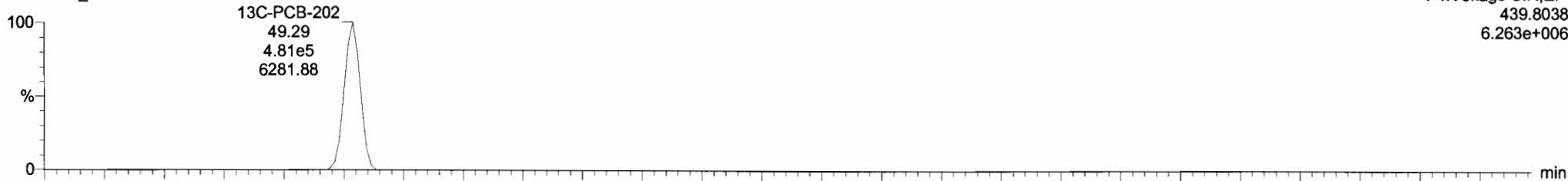
F4:Voltage SIR,EI+  
429.7606  
1.324e+008



**13C-PCB-202**

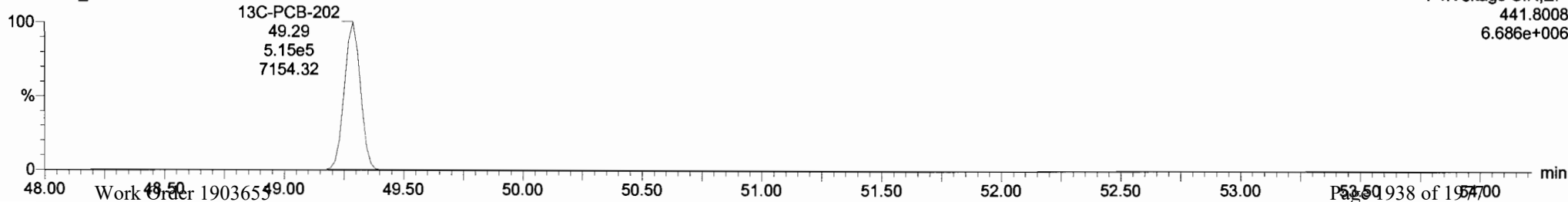
190628K2\_5

F4:Voltage SIR,EI+  
439.8038  
6.263e+006



190628K2\_5

F4:Voltage SIR,EI+  
441.8008  
6.686e+006



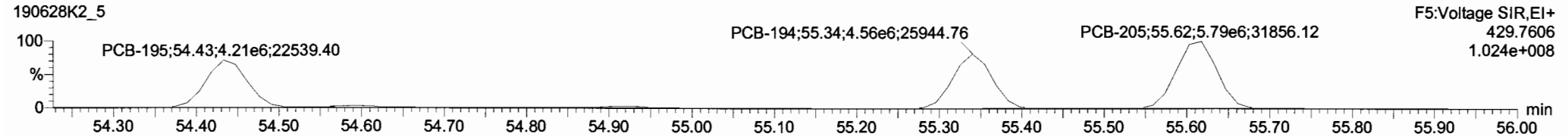
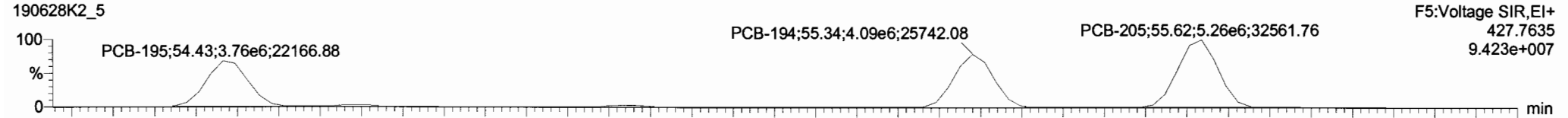


Dataset: Untitled

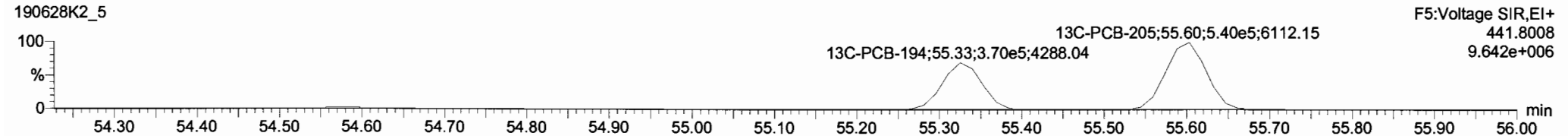
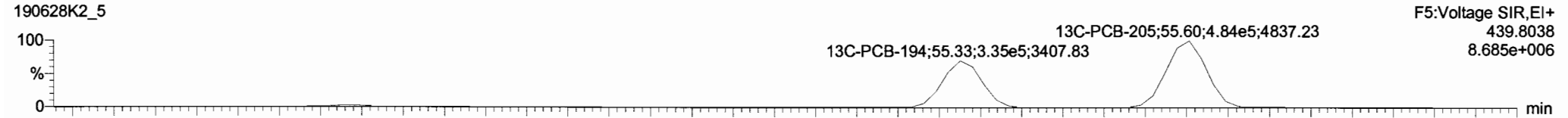
Last Altered: Saturday, June 29, 2019 12:04:52 Pacific Daylight Time  
Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_5, Date: 28-Jun-2019, Time: 20:39:52, ID: ST190628K2-5 PCB 209 CS5 19C1108, Description: PCB 209 CS5 19C1108

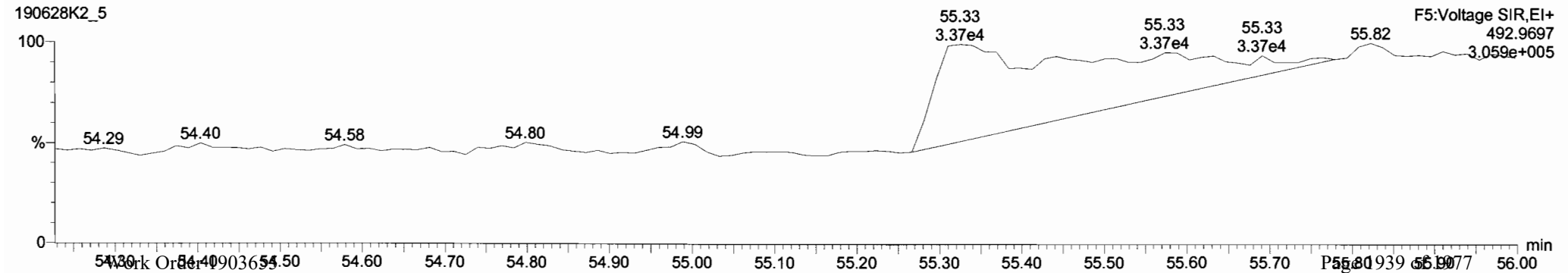
**PCB-195**



**13C-PCB-194**



**PFK5**

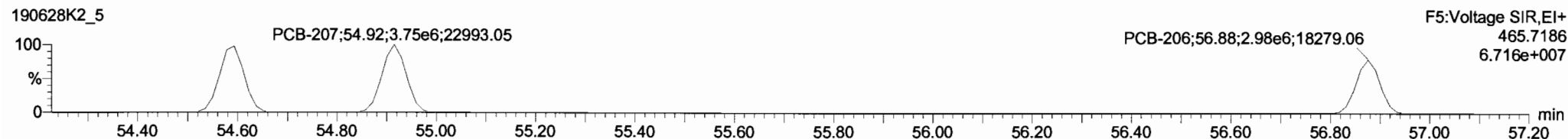
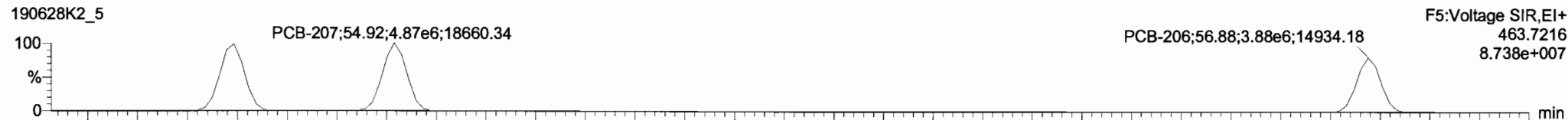


Dataset: Untitled

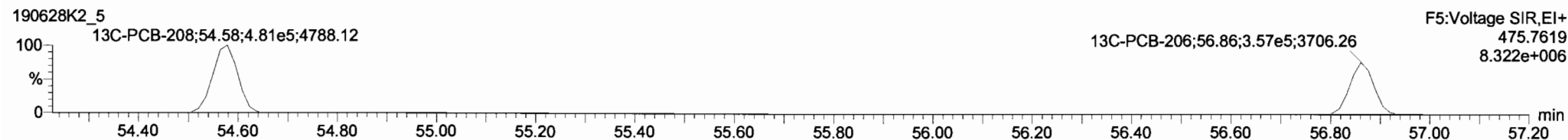
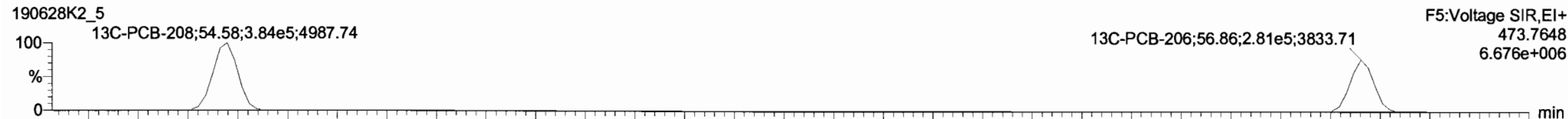
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Name: 190628K2\_5, Date: 28-Jun-2019, Time: 20:39:52, ID: ST190628K2-5 PCB 209 CS5 19C1108, Description: PCB 209 CS5 19C1108

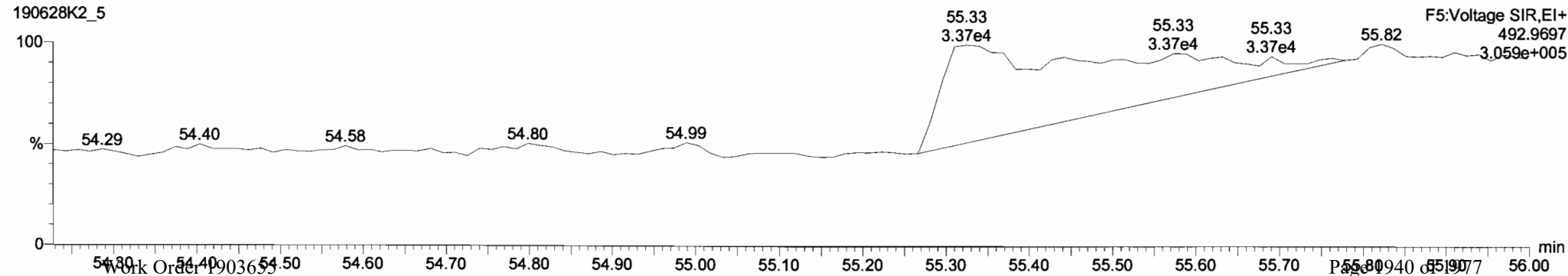
**PCB-208**



**13C-PCB-208**



**PFK5**



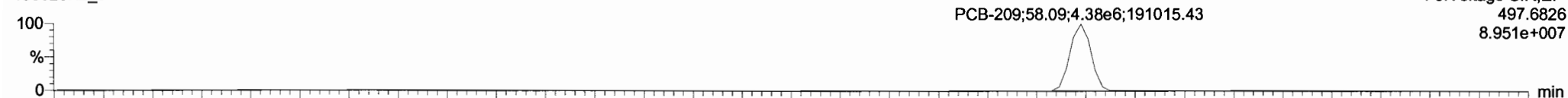
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Last Altered: Saturday, June 29, 2019 12:04:52 Pacific Daylight Time  
Printed: Saturday, June 29, 2019 12:05:15 Pacific Daylight Time

Name: 190628K2\_5, Date: 28-Jun-2019, Time: 20:39:52, ID: ST190628K2-5 PCB 209 CS5 19C1108, Description: PCB 209 CS5 19C1108

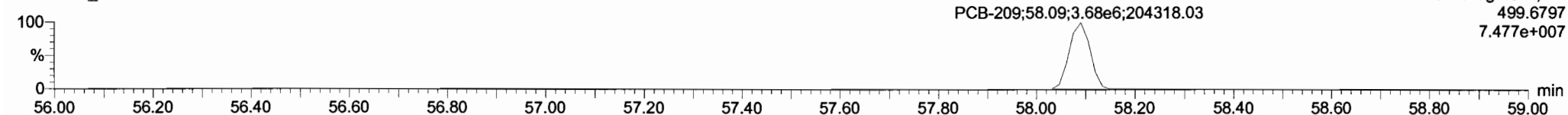
**PCB-209**

190628K2\_5



F5:Voltage SIR,EI+  
497.6826  
8.951e+007

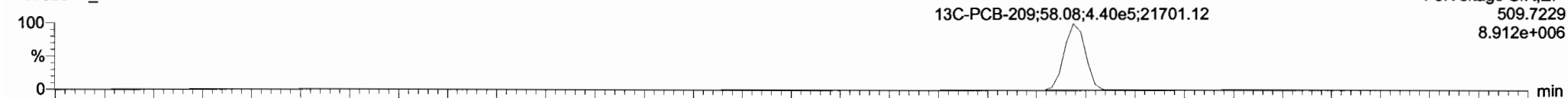
190628K2\_5



F5:Voltage SIR,EI+  
499.6797  
7.477e+007

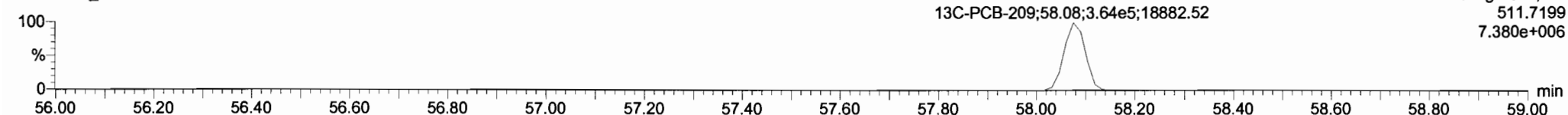
**13C-PCB-209**

190628K2\_5



F5:Voltage SIR,EI+  
509.7229  
8.912e+006

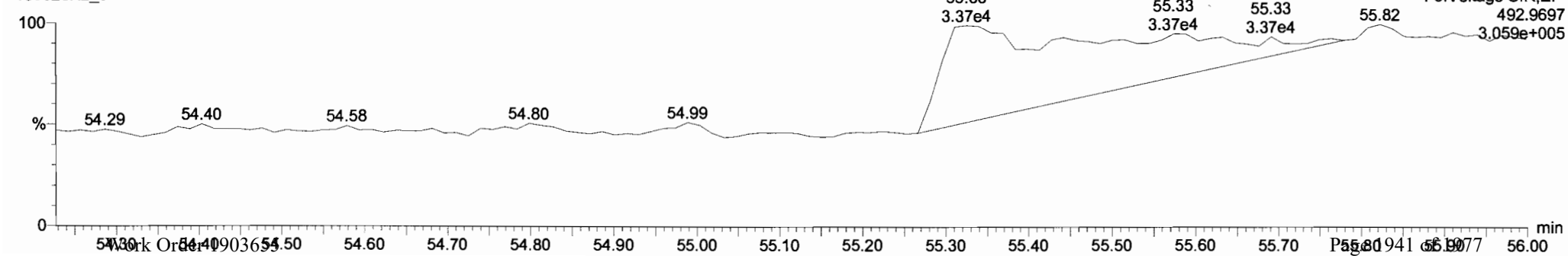
190628K2\_5



F5:Voltage SIR,EI+  
511.7199  
7.380e+006

**PFK5**

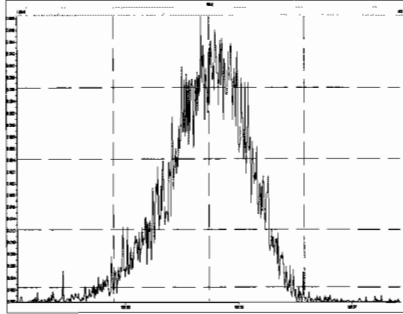
190628K2\_5



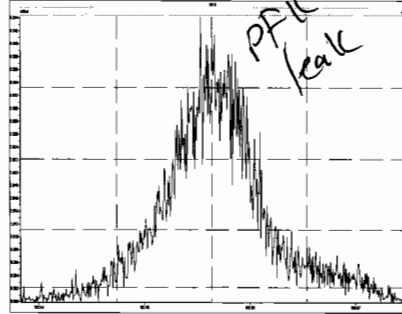
F5:Voltage SIR,EI+  
492.9697  
3.059e+005

low PFIK

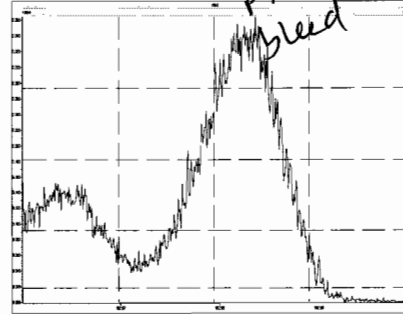
M 168.9888 R 11215



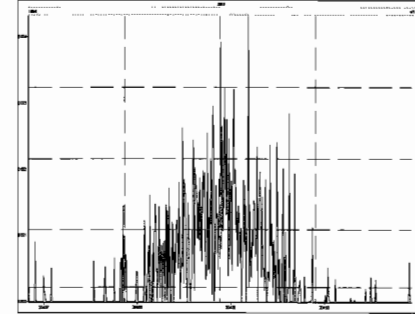
M 180.9888 R 7962



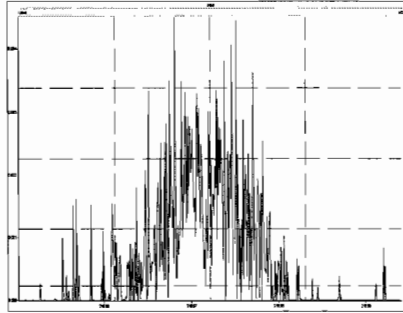
M 192.9888 R 0



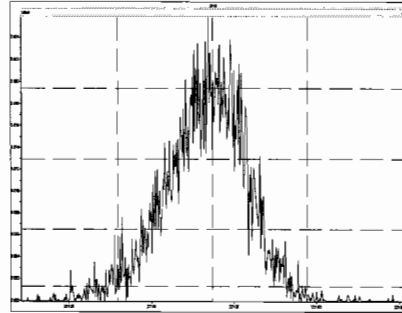
M 204.9888 R 56205



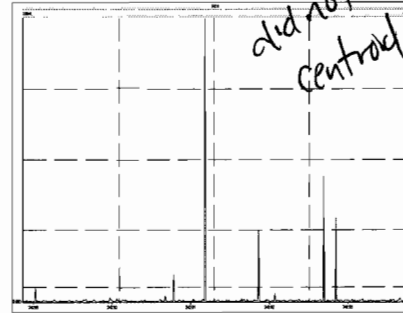
M 218.9856 R 35665



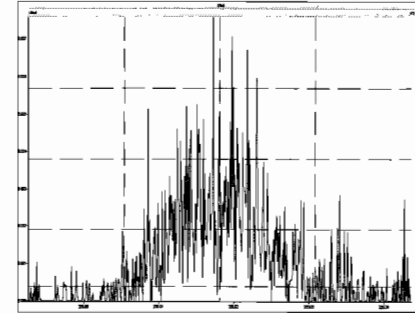
M 230.9856 R 11306



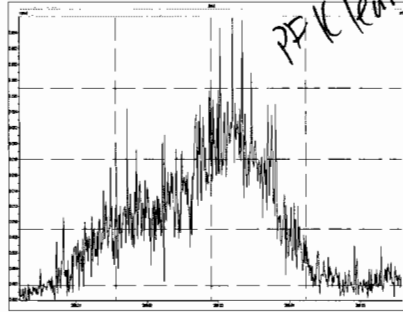
M 242.9856 R 161713



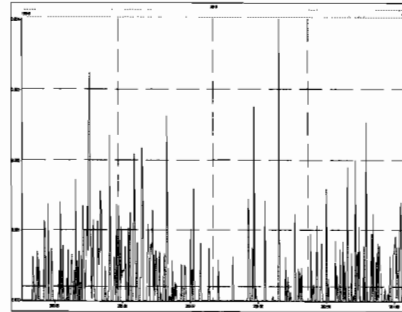
M 254.9856 R 29574



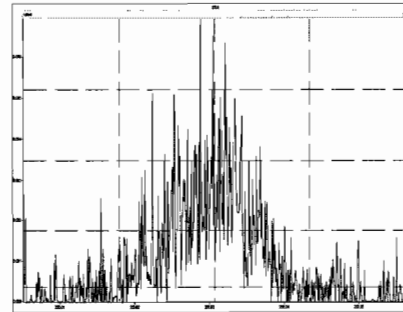
M 268.9824 R 7763



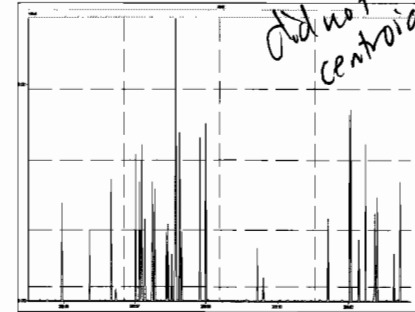
M 280.9824 R 491065



M 254.9856 R 17152

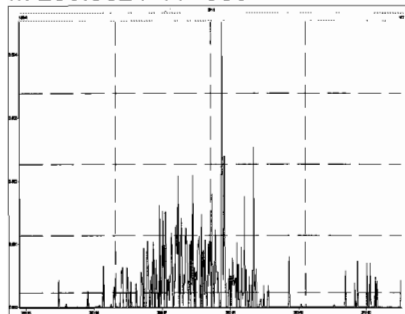


M 268.9824 R 292205

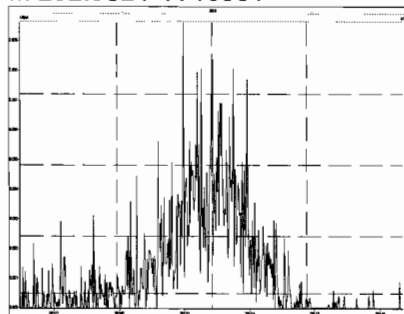


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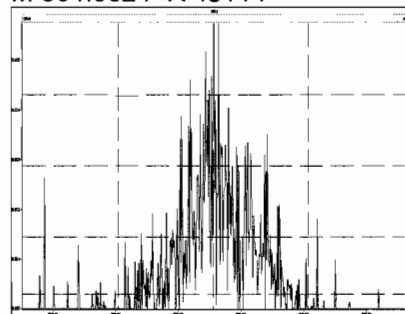
M 280.9824 R 238094



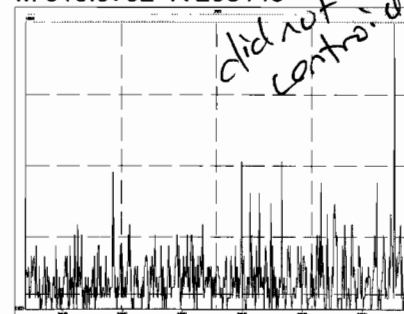
M 292.9824 R 16981



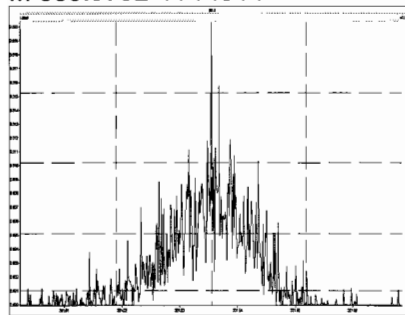
M 304.9824 R 43114



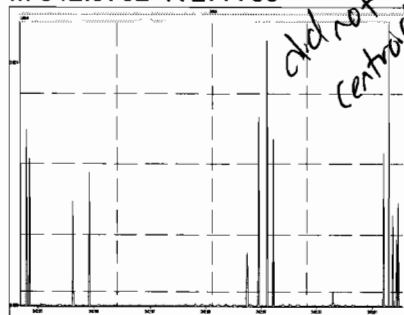
M 318.9792 R 295143



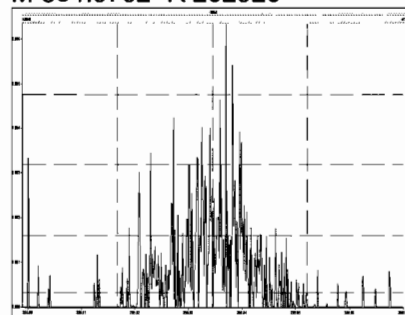
M 330.9792 R 14914



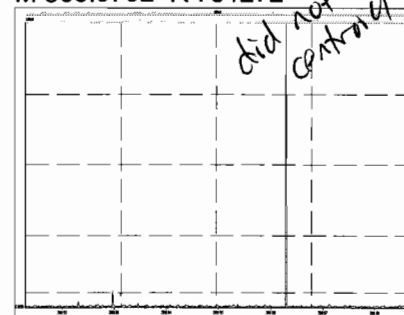
M 342.9792 R 277783



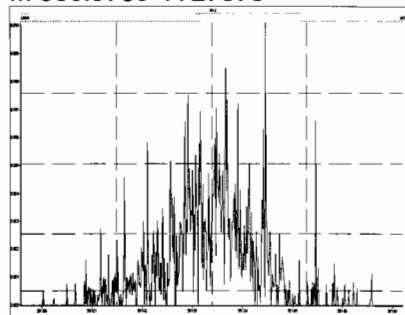
M 354.9792 R 202920



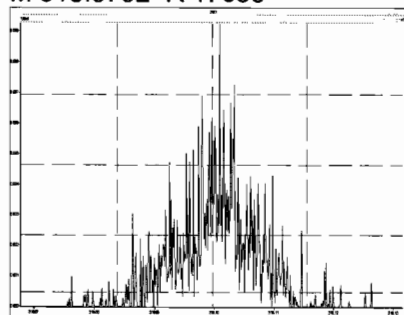
M 366.9792 R 781272



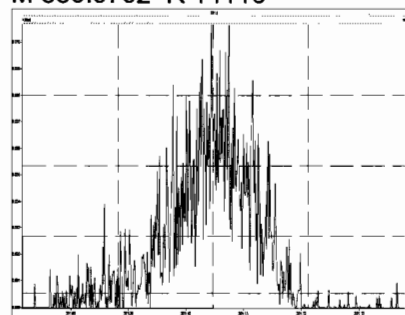
M 380.9760 R 27575



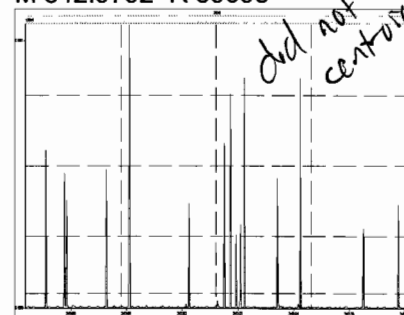
M 318.9792 R 17636



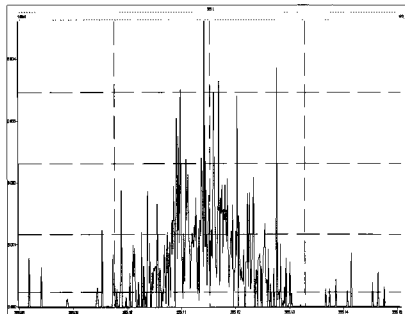
M 330.9792 R 14116



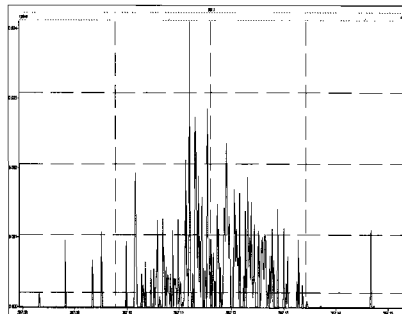
M 342.9792 R 89095



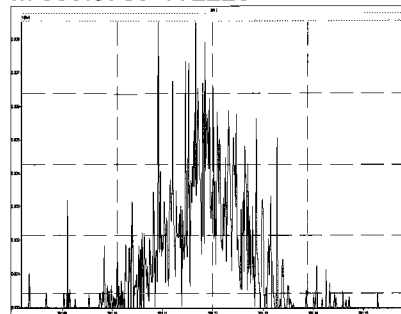
M 354.9792 R 84595



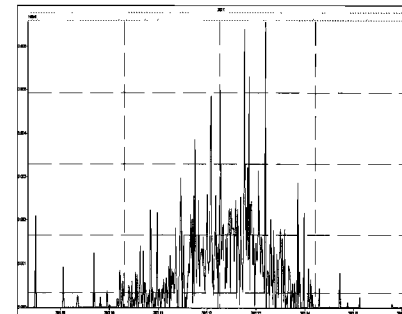
M 366.9792 R 344550



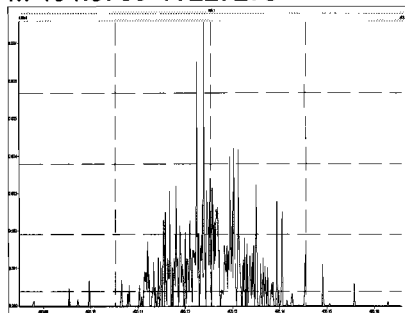
M 380.9760 R 22281



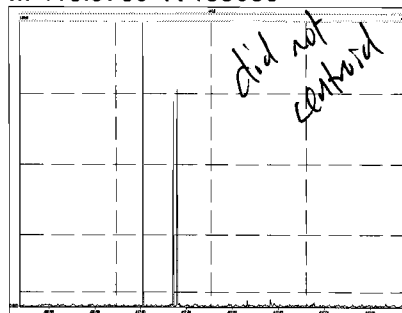
M 392.9760 R 56662



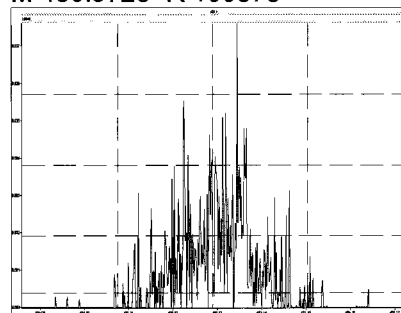
M 404.9760 R 227273



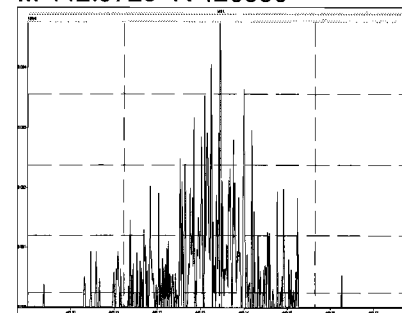
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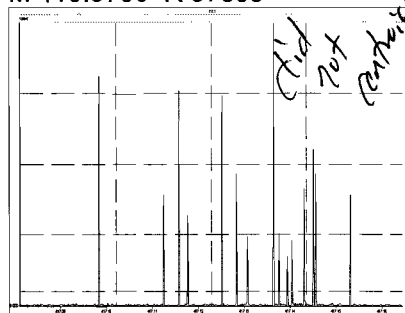
M 430.9728 R 100378



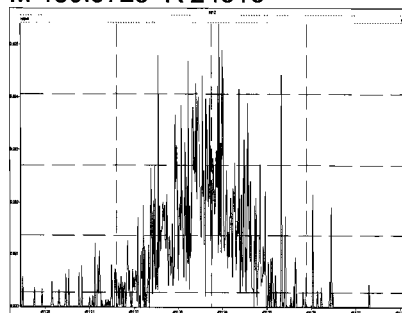
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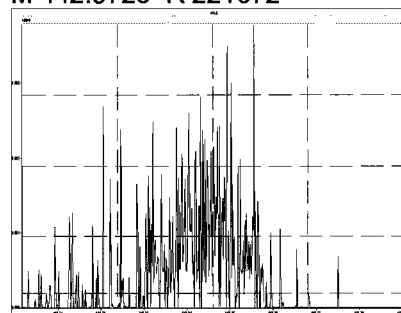
M 416.9760 R 97568



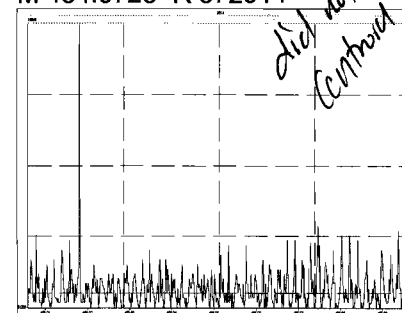
M 430.9728 R 24815



M 442.9728 R 221672

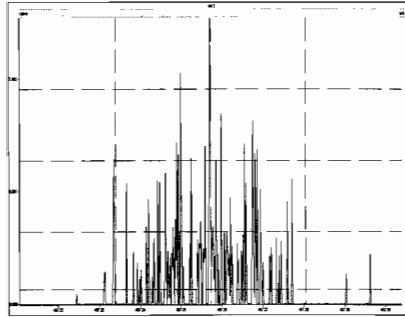


M 454.9728 R 572914

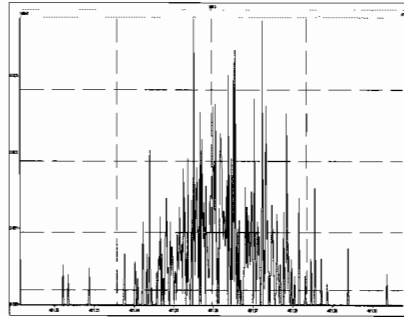


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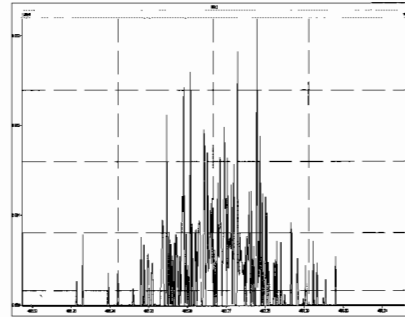
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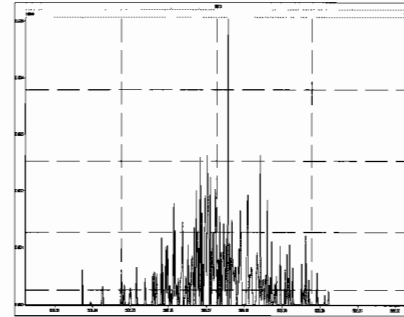
M 480.9696 R 129677



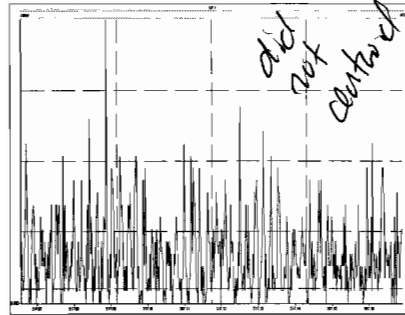
M 492.9696 R 196177



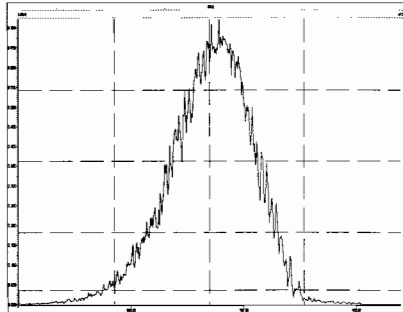
M 504.9696 R 1250001



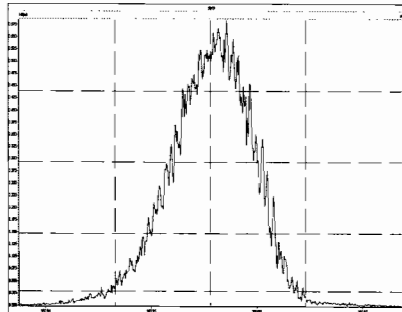
M 516.9697 R 123396



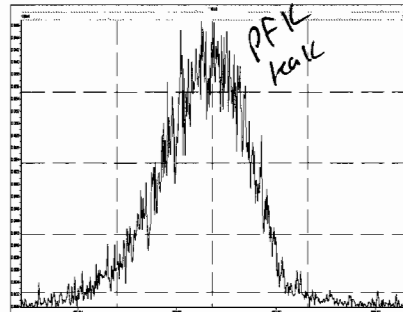
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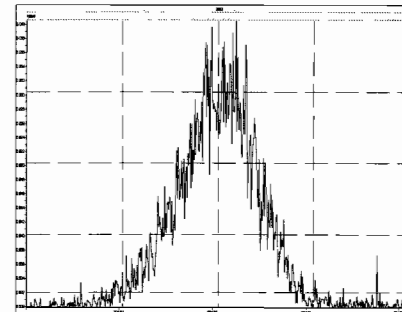
M 180.9888 R 10336



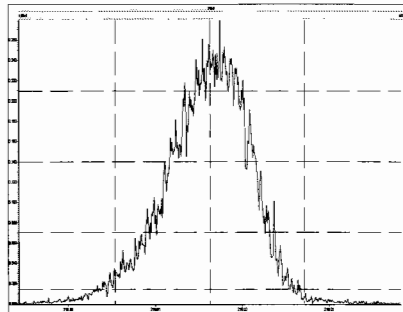
M 192.9888 R 9536



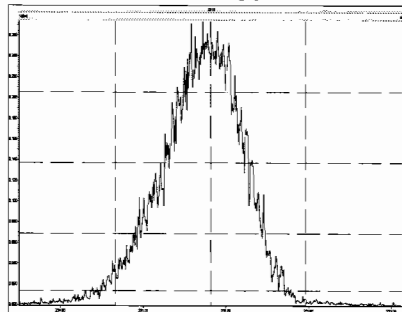
M 204.9888 R 12191



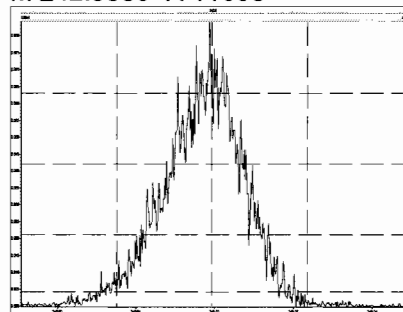
M 218.9856 R 10373



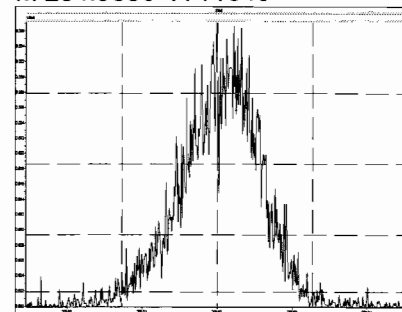
M 230.9856 R 10483



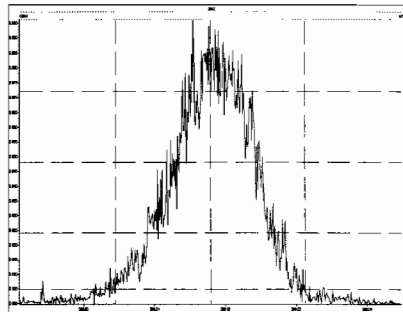
M 242.9856 R 11605



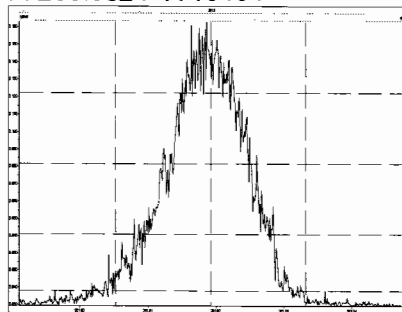
M 254.9856 R 11340



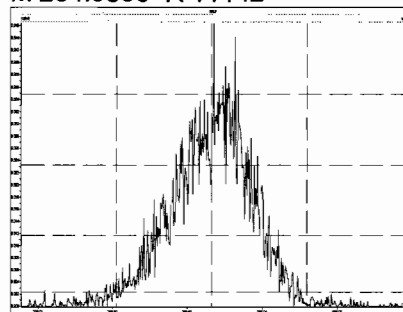
M 268.9824 R 11067



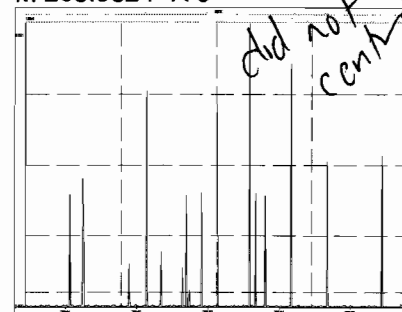
M 280.9824 R 10464



M 254.9856 R 11142

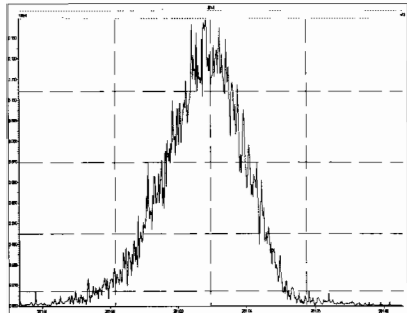


M 268.9824 R 0

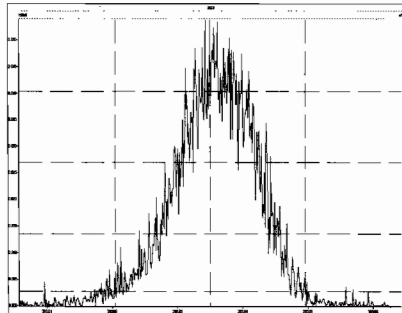




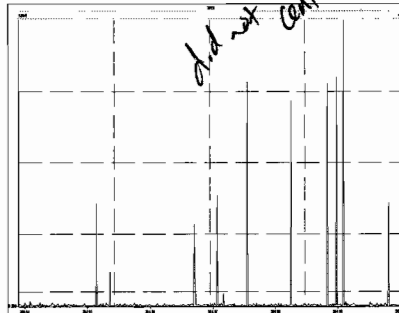
M 280.9824 R 10804



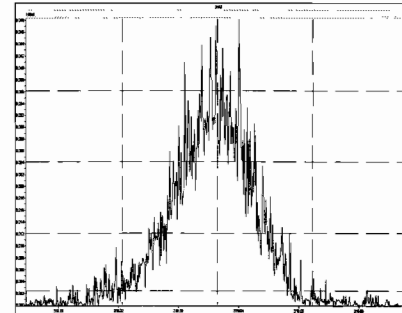
M 292.9824 R 11369



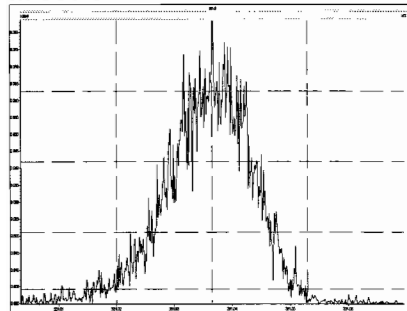
M 304.9824 R 274728



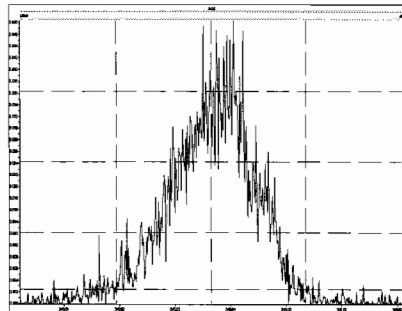
M 318.9792 R 11574



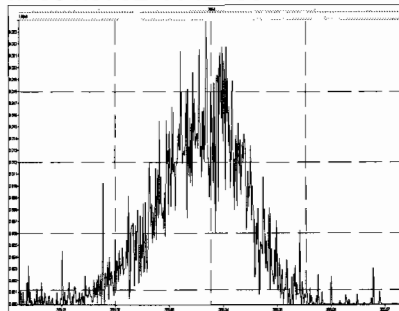
M 330.9792 R 10801



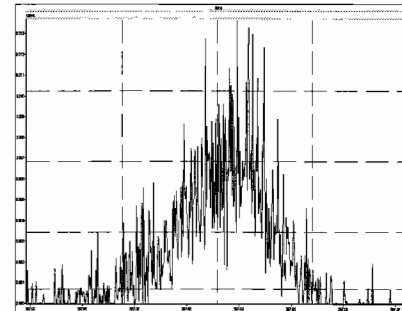
M 342.9792 R 10940



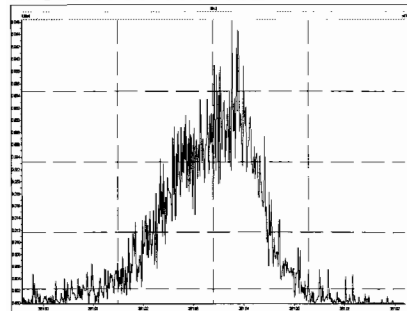
M 354.9792 R 12830



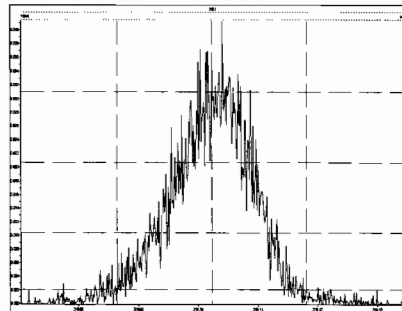
M 366.9792 R 13832



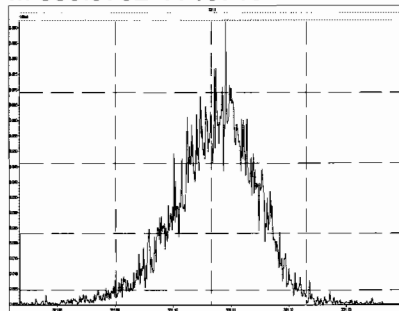
M 380.9760 R 11602



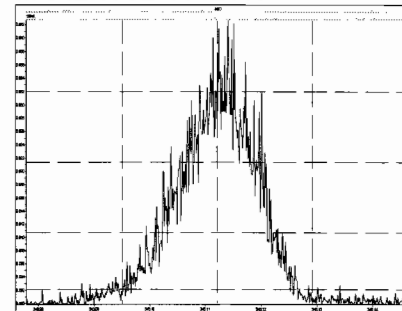
M 318.9792 R 11906



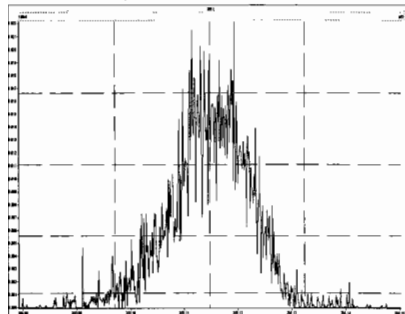
M 330.9792 R 10710



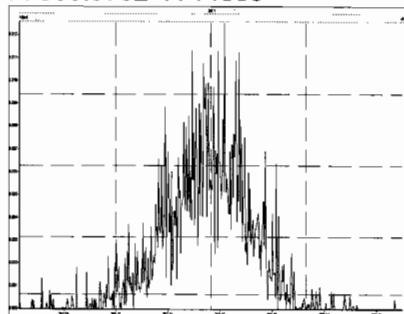
M 342.9792 R 12167



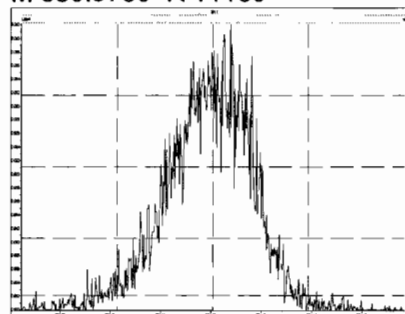
M 354.9792 R 12408



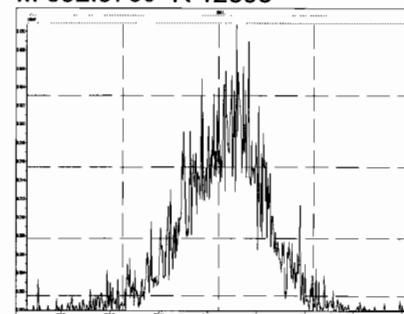
M 366.9792 R 14559



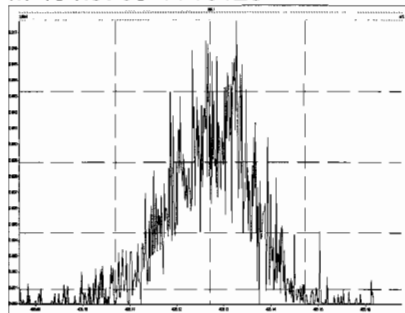
M 380.9760 R 11160



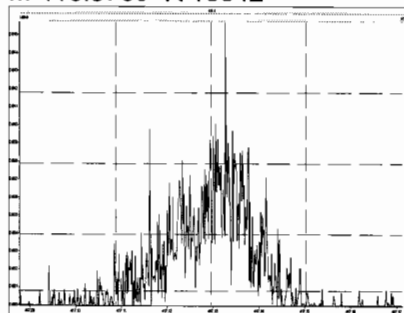
M 392.9760 R 12898



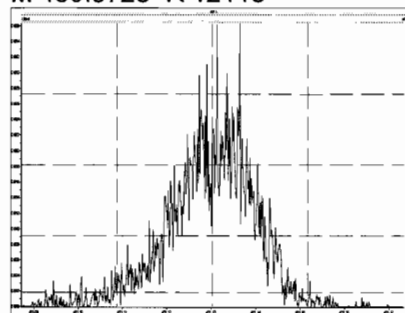
M 404.9760 R 16128



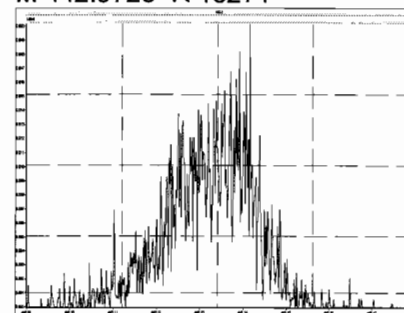
M 416.9760 R 15542



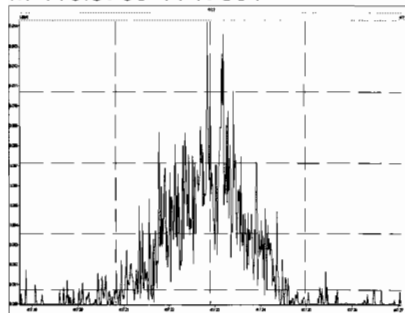
M 430.9728 R 12118



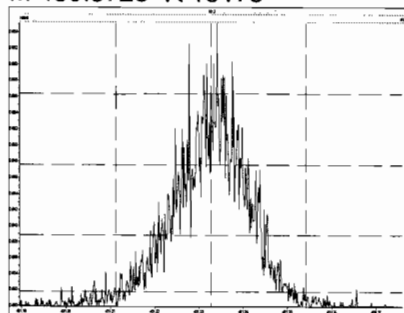
M 442.9728 R 13271



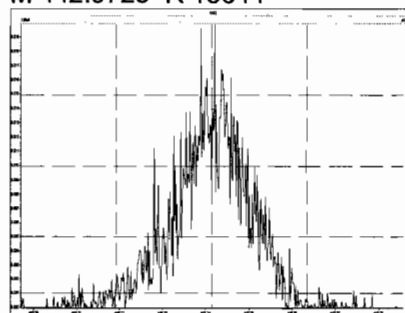
M 416.9760 R 17301



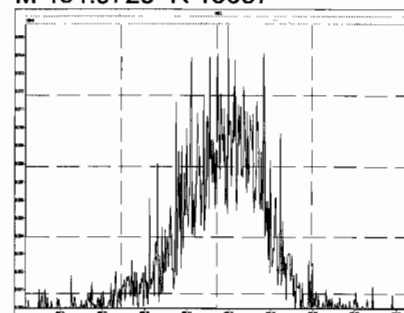
M 430.9728 R 13178



M 442.9728 R 13644

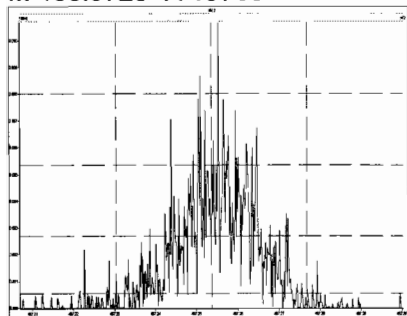


M 454.9728 R 13657

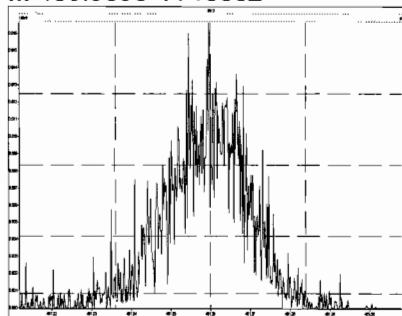


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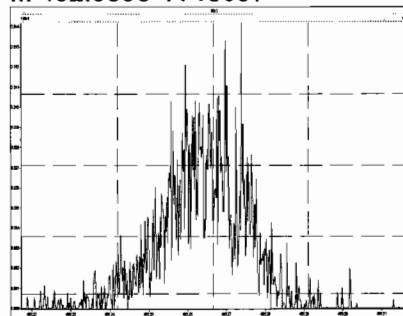
M 466.9728 R 19763



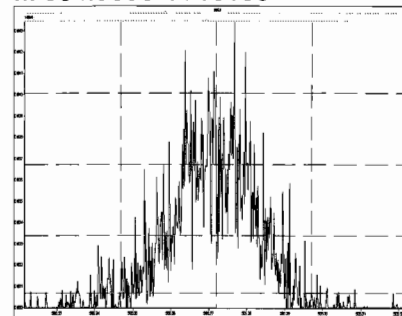
M 480.9696 R 13382



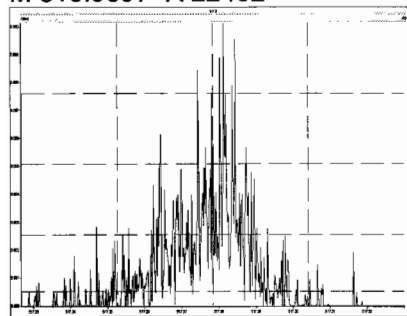
M 492.9696 R 13097



M 504.9696 R 16155



M 516.9697 R 22432



Dataset: U:\VG11.PRO\Results\190628K2\190628K2-7.qld

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HL 6-29-19

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_6-28-19.mdb 28 Jun 2019 14:45:02  
Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-28-19.cdb 29 Jun 2019 12:47:57

Name: 190628K2\_7, Date: 28-Jun-2019, Time: 22:43:59, ID: SS190628K2-1 PCB 209 SS 19C1113, Description: PCB 209 SS 19C1113

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	1.98e6	3.15	NO	1.02	1.000	16.01	16.02	1.001	1.001	NO	98.99	70-130	0.00903	98.99
2	2 PCB-2			NO	1.01	1.000	18.46		0.988		YES			0.00959	
3	3 PCB-3	2.04e6	3.09	NO	1.01	1.000	18.70	18.71	1.001	1.001	NO	100.8	70-130	0.00961	100.8
4	4 PCB-4/10	3.04e6	1.58	NO	1.28	1.000	20.16	20.16	1.004	1.004	NO	201.9	112.5-225	0.0257	201.9
5	5 PCB-7/9	1.83e6	1.57	NO	0.976	1.000	21.98	21.94	1.003	1.001	NO	103.3	70-130	0.0224	103.3
6	6 PCB-6			NO	1.02	1.000	22.63		1.032		YES			0.0215	
7	7 PCB-5/8	1.88e6	1.57	NO	1.01	1.000	23.04	23.05	1.051	1.051	NO	102.8	70-130	0.0216	102.8
8	8 PCB-14			NO	1.03	1.000	24.20		0.953		YES			0.0231	
9	9 PCB-11	1.80e6	1.58	NO	1.10	1.000	25.43	25.44	1.001	1.001	NO	93.04	70-130	0.0218	93.04
10	10 PCB-12/13	1.72e6	1.56	NO	1.04	1.000	25.80	25.87	1.015	1.018	NO	93.88		0.0230	93.88
11	11 PCB-15	1.87e6	1.57	NO	1.03	1.000	26.16	26.16	1.030	1.030	NO	102.8		0.0232	102.8
12	12 PCB-19	5.20e5	0.96	NO	0.934	1.000	24.39	24.39	1.001	1.001	NO	47.83	35-65	0.0146	47.83
13	13 PCB-30			NO	1.48	1.000	25.31		1.039		YES			0.00921	
14	14 PCB-18	5.27e5	0.96	NO	0.693	1.000	26.09	26.08	0.953	0.953	NO	46.71		0.0142	46.71
15	15 PCB-17			NO	0.667	1.000	26.26		0.959		YES			0.0148	
16	16 PCB-24/27			NO	0.915	1.000	26.86		0.981		YES			0.0108	
17	17 PCB-16/32			NO	0.792	1.000	27.40		1.001		YES			0.0124	
18	18 PCB-34			NO	0.987	1.000	28.22		0.960		YES			0.0251	
19	19 PCB-23			NO	0.974	1.000	28.31		0.963		YES			0.0254	
20	20 PCB-29			NO	0.953	1.000	28.57		0.972		YES			0.0260	
21	21 PCB-26			NO	1.00	1.000	28.79		0.979		YES			0.0248	
22	22 PCB-25			NO	0.978	1.000	28.96		0.985		YES			0.0253	
23	23 PCB-31	7.84e5	1.03	NO	1.12	1.000	29.31	29.31	0.997	0.997	NO	43.20		0.0221	43.20
24	24 PCB-28	8.35e5	1.04	NO	1.11	1.000	29.43	29.43	1.001	1.001	NO	46.72		0.0224	46.72
25	25 PCB-20/21/33	7.50e5	1.04	NO	1.00	1.000	30.05	30.10	1.022	1.023	NO	46.25	46.2 35-65	0.0247	46.25
26	26 PCB-22			NO	1.03	1.000	30.51		1.038		YES			0.0240	
27	27 PCB-36			NO	1.18	1.000	31.17		0.932		YES			0.0242	
28	28 PCB-39			NO	1.08	1.000	31.65		0.947		YES			0.0262	
29	29 PCB-38	7.01e5	1.04	NO	1.13	1.000	32.46	32.44	0.971	0.970	NO	43.26	35-65	0.0252	43.26
30	30 PCB-35	7.22e5	1.04	NO	1.13	1.000	33.00	33.00	0.987	0.987	NO	44.38		0.0251	44.38
31	31 PCB-37	7.69e5	1.04	NO	1.11	1.000	33.46	33.45	1.001	1.001	NO	48.42		0.0257	48.42
32	32 PCB-54	6.50e5	0.72	NO	0.996	1.000	28.26	28.27	1.001	1.001	NO	48.04		0.0251	48.04

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-7.qld

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Name: 190628K2\_7, Date: 28-Jun-2019, Time: 22:43:59, ID: SS190628K2-1 PCB 209 SS 19C1113, Description: PCB 209 SS 19C1113

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50			NO	0.781	1.000	29.47		1.044		YES		35-65	0.0320	
34	34 PCB-53			NO	0.955	1.000	30.16		0.945		YES			0.0347	
35	35 PCB-51			NO	1.02	1.000	30.52		0.956		YES			0.0324	
36	36 PCB-45			NO	0.808	1.000	30.96		0.970		YES			0.0411	
37	37 PCB-46			NO	0.754	1.000	31.45		0.985		YES			0.0440	
38	38 PCB-52/69	5.31e5	0.73	NO	1.09	1.000	31.96	31.94	1.001	1.001	NO	45.67		0.0304	45.67
39	39 PCB-73			NO	1.29	1.000	32.07		1.005		YES			0.0257	
40	40 PCB-43/49	4.83e5	0.74	NO	0.940	1.000	32.26	32.26	1.011	1.010	NO	48.22		0.0353	48.22
41	41 PCB-47			NO	0.869	1.000	32.45		1.000		YES			0.0359	
42	42 PCB-48/75			NO	1.02	1.000	32.57		1.004		YES			0.0305	
43	43 PCB-65			NO	1.11	1.000	32.85		1.013		YES			0.0282	
44	44 PCB-62			NO	1.07	1.000	32.96		1.016		YES			0.0293	
45	45 PCB-44	4.15e5	0.75	NO	0.761	1.000	33.28	33.28	1.026	1.026	NO	49.06		0.0410	49.06
46	46 PCB-42/59			NO	0.960	1.000	33.51		1.033		YES			0.0325	
47	47 PCB-41/64/71/72			NO	1.08	1.000	34.10		1.051		YES			0.0289	
48	48 PCB-68			NO	1.11	1.000	34.38		1.060		YES			0.0282	
49	49 PCB-40			NO	0.577	1.000	34.61		1.067		YES			0.0542	
50	50 PCB-57	5.94e5	0.73	NO	1.05	1.000	34.97	34.99	0.970	0.970	NO	45.11		0.0274	45.11
51	51 PCB-67			NO	0.993	1.000	35.29		0.979		YES			0.0289	
52	52 PCB-58			NO	1.11	1.000	35.40		0.982		YES			0.0258	
53	53 PCB-63			NO	0.962	1.000	35.57		0.986		YES			0.0299	
54	54 PCB-74	6.18e5	0.73	NO	1.07	1.000	35.86	35.88	0.994	0.995	NO	46.19		0.0270	46.19
55	55 PCB-61/70	6.36e5	0.73	NO	0.986	1.000	36.09	36.11	1.000	1.001	NO	51.40		0.0292	51.40
56	56 PCB-76/66	6.25e5	0.73	NO	1.07	1.000	36.29	36.31	1.006	1.007	NO	46.69		0.0270	46.69
57	57 PCB-80			NO	1.08	1.000	36.54		1.001		YES			0.0244	
58	58 PCB-55			NO	1.07	1.000	36.86		1.010		YES			0.0247	
59	59 PCB-56/60			NO	0.934	1.000	37.39		1.024		YES			0.0283	
60	60 PCB-79	6.23e5	0.75	NO	1.04	1.000	38.48	38.49	1.054	1.054	NO	45.44		0.0253	45.44
61	61 PCB-78	5.44e5	0.73	NO	1.03	1.000	39.20	39.20	0.987	0.987	NO	42.39		0.0286	42.39
62	62 PCB-81	6.21e5	0.72	NO	0.933	1.000	39.73	39.75	1.000	1.001	NO	53.50		0.0317	53.50
63	63 PCB-77	5.96e5	0.73	NO	1.03	1.000	40.37	40.37	1.000	1.000	NO	47.72		0.0301	47.72
64	64 PCB-104	6.58e5	1.50	NO	0.995	1.000	33.13	33.13	1.001	1.001	NO	51.39		0.0165	51.39
65	65 PCB-96			NO	0.996	1.000	34.45		1.041		YES			0.0164	
66	66 PCB-103			NO	0.774	1.000	35.01		1.057		YES			0.0211	
67	67 PCB-100			NO	0.778	1.000	35.38		1.069		YES			0.0211	
68	68 PCB-94			NO	0.773	1.000	35.87		0.986		YES			0.0275	

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-7.qld

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Name: 190628K2\_7, Date: 28-Jun-2019, Time: 22:43:59, ID: SS190628K2-1 PCB 209 SS 19C1113, Description: PCB 209 SS 19C1113

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102	4.58e5	1.50	NO	1.01	1.000	36.36	36.40	0.999	1.001	NO	45.45	45.4	0.0210	45.45
70	70 PCB-93			NO	0.841	1.000	36.49		1.003		YES			0.0253	
71	71 PCB-88/91			NO	0.890	1.000	36.82		1.012		YES			0.0239	
72	72 PCB-121			NO	1.39	1.000	36.94		1.015		YES			0.0154	
73	73 PCB-84/92			NO	0.879	1.000	37.77		0.990		YES			0.0252	
74	74 PCB-89			NO	0.959	1.000	37.98		0.996		YES			0.0231	
75	75 PCB-90/101	4.91e5	1.51	NO	0.944	1.000	38.14	38.15	1.000	1.000	NO	53.94		0.0234	53.94
76	76 PCB-113			NO	1.23	1.000	38.41		1.007		YES			0.0180	
77	77 PCB-99	4.95e5	1.51	NO	1.12	1.000	38.51	38.49	1.010	1.009	NO	45.83		0.0198	45.83
78	78 PCB-119			NO	1.47	1.000	38.96		0.987		YES			0.0178	
79	79 PCB-108/112			NO	1.25	1.000	39.13		0.991		YES			0.0210	
80	80 PCB-83			NO	1.55	1.000	39.30		0.996		YES			0.0170	
81	81 PCB-97			NO	1.07	1.000	39.51		1.001		YES			0.0244	
82	82 PCB-86			NO	0.996	1.000	39.64		1.004		YES			0.0264	
83	83 PCB-87/117/125	4.15e5	1.52	NO	1.33	1.000	39.78	39.79	1.008	1.008	NO	37.15	37.1	0.0197	37.15
84	84 PCB-111/115	5.95e5	1.53	NO	1.60	1.000	39.94	39.96	1.012	1.012	NO	44.34		0.0164	44.34
85	85 PCB-85/116			NO	1.22	1.000	40.07		1.015		YES			0.0216	
86	86 PCB-120			NO	1.68	1.000	40.33		1.022		YES			0.0156	
87	87 PCB-110	5.89e5	1.52	NO	1.49	1.000	40.46	40.48	1.025	1.025	NO	47.34		0.0177	47.34
88	88 PCB-82			NO	0.674	1.000	41.14		0.976		YES			0.0299	
89	89 PCB-124			NO	1.16	1.000	41.85		0.993		YES			0.0173	
90	90 PCB-107/109	5.75e5	1.49	NO	1.17	1.000	42.00	42.15	0.997	1.000	YES	45.67		0.0173	45.67
91	91 PCB-123			NO	1.04	1.000	42.16		1.000		YES			0.0194	
92	92 PCB-106/118	6.17e5	1.52	NO	1.07	1.000	42.36	42.34	1.001	1.000	NO	50.56		0.0181	50.56
93	93 PCB-114	5.16e5	1.58	NO	1.16	1.000	43.02	43.02	1.000	1.000	NO	46.05		0.0229	46.05
94	94 PCB-122			NO	0.973	1.000	43.15		1.003		YES			0.0274	
95	95 PCB-105	5.49e5	1.57	NO	1.10	1.000	43.91	43.91	1.000	1.000	NO	49.49		0.0237	49.49
96	96 PCB-127			NO	1.11	1.000	44.27		1.000		YES			0.0233	
97	97 PCB-126	5.54e5	1.59	NO	1.21	1.000	46.22	46.22	1.000	1.000	NO	48.91		0.0239	48.91
98	98 PCB-155	5.95e5	1.27	NO	0.874	1.000	37.67	37.69	1.000	1.001	NO	56.75		0.0120	56.75
99	99 PCB-150			NO	0.881	1.000	38.97		1.035		YES			0.0119	
100	1... PCB-152			NO	1.00	1.000	39.46		1.048		YES			0.0104	
101	1... PCB-145			NO	1.00	1.000	39.93		1.061		YES			0.0105	
102	1... PCB-136			NO	0.843	1.000	40.26		1.069		YES			0.0124	
103	1... PCB-148			NO	0.693	1.000	40.37		1.072		YES			0.0151	
104	1... PCB-154			NO	0.724	1.000	40.88		1.086		YES			0.0145	

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-7.qld

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Name: 190628K2\_7, Date: 28-Jun-2019, Time: 22:43:59, ID: SS190628K2-1 PCB 209 SS 19C1113, Description: PCB 209 SS 19C1113

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151			NO	0.632	1.000	41.56		1.104		YES			0.0166	
106	1... PCB-135			NO	0.716	1.000	41.78		1.110		YES			0.0146	
107	1... PCB-144			NO	0.667	1.000	41.87		1.112		YES			0.0157	
108	1... PCB-147			NO	0.661	1.000	42.02		1.116		YES			0.0158	
109	1... PCB-139/149	4.11e5	1.26	NO	0.738	1.000	42.28	42.29	1.123	1.123	NO	46.32		0.0142	46.32
110	1... PCB-140			NO	0.627	1.000	42.49		1.128		YES			0.0167	
111	1... PCB-134/143			NO	0.733	1.000	42.94		0.975		YES			0.0388	
112	1... PCB-131/133			NO	0.790	1.000	43.24		0.982		YES			0.0360	
113	1... PCB-142			NO	0.708	1.000	43.43		0.986		YES			0.0402	
114	1... PCB-146/165			NO	0.959	1.000	43.64		0.990		YES			0.0297	
115	1... PCB-132/161			NO	0.974	1.000	43.89		0.996		YES			0.0292	
116	1... PCB-153	4.28e5	1.21	NO	1.01	1.000	44.08	44.08	1.000	1.000	NO	45.74		0.0281	45.74
117	1... PCB-168			NO	1.02	1.000	44.28		1.005		YES			0.0279	
118	1... PCB-141			NO	0.967	1.000	44.86		1.001		YES			0.0370	
119	1... PCB-137			NO	0.987	1.000	45.23		1.009		YES			0.0363	
120	1... PCB-130			NO	0.840	1.000	45.34		1.012		YES			0.0426	
121	1... PCB-138/163/164	3.71e5	1.19	NO	1.23	1.000	45.72	45.71	1.001	1.000	NO	39.00	<del>39.0</del>	0.0281	39.00
122	1... PCB-158/160			NO	1.18	1.000	45.98		1.006		YES			0.0293	
123	1... PCB-129			NO	0.819	1.000	46.23		1.012		YES			0.0421	
124	1... PCB-166			NO	1.07	1.000	46.69		0.993		YES			0.0274	
125	1... PCB-159			NO	1.12	1.000	47.03		1.000		YES			0.0262	
126	1... PCB-128/162	4.56e5	1.21	NO	0.851	1.000	47.32	47.34	1.007	1.007	NO	57.57		0.0344	57.57
127	1... PCB-167	5.02e5	1.19	NO	1.04	1.000	47.73	47.73	1.000	1.000	NO	51.80		0.0287	51.80
128	1... PCB-156	4.50e5	1.21	NO	1.06	1.000	49.08	49.08	1.000	1.000	NO	46.22		0.0285	46.22
129	1... PCB-157	5.10e5	1.19	NO	0.978	1.000	49.36	49.34	1.001	1.000	NO	56.38		0.0300	56.38
130	1... PCB-169	4.53e5	1.19	NO	1.11	1.000	51.62	51.62	1.000	1.000	NO	45.69		0.0288	45.69
131	1... PCB-188	5.49e5	1.03	NO	1.19	1.000	43.72	43.70	1.001	1.000	NO	52.22		0.0289	52.22
132	1... PCB-184			NO	1.17	1.000	44.17		1.011		YES			0.0295	
133	1... PCB-179			NO	1.18	1.000	44.96		1.029		YES			0.0293	
134	1... PCB-176			NO	1.16	1.000	45.45		1.041		YES			0.0297	
135	1... PCB-186			NO	1.22	1.000	46.07		1.055		YES			0.0283	
136	1... PCB-178	3.71e5	1.03	NO	0.830	1.000	46.59	46.58	1.067	1.066	NO	50.70		0.0415	50.70
137	1... PCB-175			NO	0.849	1.000	46.95		1.075		YES			0.0406	
138	1... PCB-182/187	4.09e5	1.05	NO	0.960	1.000	47.12	47.11	1.079	1.079	NO	48.37		0.0359	48.37
139	1... PCB-183			NO	0.957	1.000	47.44		1.086		YES			0.0360	
140	1... PCB-185			NO	1.32	1.000	48.14		0.956		YES			0.0413	

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1

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-7.qld

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7/2/19  
DB FOR HC

Name: 190628K2\_7, Date: 28-Jun-2019, Time: 22:43:59, ID: SS190628K2-1 PCB 209 SS 19C1113, Description: PCB 209 SS 19C1113

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174	3.54e5	1.02	NO	1.22	1.000	48.52	48.51	0.963	0.963	NO	48.94	75.65	0.0448	48.94
142	1... PCB-181			NO	1.41	1.000	48.63		0.965		YES			0.0386	
143	1... PCB-177			NO	1.24	1.000	48.80		0.969		YES			0.0440	
144	1... PCB-171			NO	1.24	1.000	49.11		0.975		YES			0.0439	
145	1... PCB-173			NO	1.14	1.000	49.54		0.983		YES			0.0478	
146	1... PCB-172			NO	1.31	1.000	50.00		0.992		YES			0.0417	
147	1... PCB-192			NO	1.70	1.000	50.20		0.996		YES			0.0321	
148	1... PCB-180	4.20e5	1.04	NO	1.32	1.000	50.41	50.40	1.000	1.000	NO	53.57		0.0413	53.57
149	1... PCB-193			NO	1.54	1.000	50.62		1.005		YES			0.0354	
150	1... PCB-191			NO	1.57	1.000	50.88		1.010		YES			0.0347	
151	1... PCB-170	3.41e5	1.03	NO	1.36	1.000	52.06	52.05	1.000	1.000	NO	49.08		0.0437	49.08
152	1... PCB-190			NO	1.84	1.000	52.24		1.004		YES			0.0323	
153	1... PCB-189	4.62e5	1.05	NO	1.33	1.000	53.74	53.74	1.000	1.000	NO	49.88		0.0293	49.88
154	1... PCB-202	4.71e5	0.88	NO	1.02	1.000	49.31	49.29	1.001	1.000	NO	51.01		0.0120	51.01
155	1... PCB-201			NO	0.915	1.000	49.78		1.010		YES			0.0135	
156	1... PCB-204			NO	0.979	1.000	49.95		1.014		YES			0.0126	
157	1... PCB-197			NO	0.979	1.000	50.24		1.020		YES			0.0126	
158	1... PCB-200	4.31e5	0.89	NO	0.954	1.000	51.19	51.20	1.039	1.039	NO	50.08		0.0129	50.08
159	1... PCB-198			NO	0.748	1.000	52.73		1.070		YES			0.0165	
160	1... PCB-199			NO	0.706	1.000	52.85		1.073		YES			0.0174	
161	1... PCB-196/203	3.40e5	0.90	NO	0.785	1.000	53.15	53.15	1.079	1.079	NO	48.11		0.0157	48.11
162	1... PCB-195	3.16e5	0.89	NO	1.03	1.000	54.43	54.42	0.984	0.984	NO	50.55		0.0291	50.55
163	1... PCB-194	3.30e5	0.90	NO	1.16	1.000	55.33	55.33	1.000	1.000	NO	47.12		0.0260	47.12
164	1... PCB-205	4.27e5	0.89	NO	1.40	1.000	55.59	55.60	1.005	1.005	NO	50.40		0.0214	50.40
165	1... PCB-208	3.53e5	1.33	NO	0.934	1.000	54.58	54.58	1.000	1.000	NO	48.48		0.0226	48.48
166	1... PCB-207			NO	0.912	1.000	54.90		1.006		YES			0.0231	
167	1... PCB-206	2.62e5	1.30	NO	0.987	1.000	56.86	56.86	1.000	1.000	NO	47.02		0.0285	47.02
168	1... PCB-209	3.46e5	1.18	NO	0.943	1.000	58.06	58.08	1.000	1.000	NO	51.82		0.00500	51.82
169	1... 13C-PCB-1	1.96e6	3.06	NO	1.08	1.000	15.99	16.00	0.612	0.612	NO	98.48	98.5	0.0563	
170	1... 13C-PCB-3	2.01e6	3.04	NO	1.09	1.000	18.69	18.69	0.715	0.715	NO	99.62	99.6	0.0556	
171	1... 13C-PCB-4	1.18e6	1.59	NO	0.640	1.000	20.07	20.08	0.768	0.768	NO	99.76	99.8	0.0380	
172	1... 13C-PCB-9	1.81e6	1.60	NO	0.995	1.000	21.92	21.92	0.839	0.839	NO	98.50	98.5	0.0245	
173	1... 13C-PCB-11	1.77e6	1.61	NO	0.971	1.000	25.42	25.41	0.973	0.972	NO	98.49	98.5	0.0251	
174	1... 13C-PCB-19	1.16e6	1.03	NO	0.637	1.000	24.36	24.36	0.932	0.932	NO	98.74	98.7	0.314	
175	1... 13C-PCB-32	1.63e6	1.03	NO	0.910	1.000	27.38	27.38	1.047	1.047	NO	96.77	96.8	0.220	
176	1... 13C-PCB-28	1.62e6	0.99	NO	1.07	1.000	29.41	29.41	1.004	1.004	NO	102.4	102	0.281	



Dataset: U:\VG11.PRO\Results\190628K2\190628K2-7.qld

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Name: 190628K2\_7, Date: 28-Jun-2019, Time: 22:43:59, ID: SS190628K2-1 PCB 209 SS 19C1113, Description: PCB 209 SS 19C1113

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	1.44e6	1.00	NO	0.959	1.000	33.43	33.43	1.141	1.141	NO	101.4	101.4	0.313	
178	1... 13C-PCB-54	1.36e6	0.75	NO	1.10	1.000	28.23	28.24	0.756	0.756	NO	98.57	98.6	0.0541	
179	1... 13C-PCB-52	1.06e6	0.78	NO	0.844	1.000	31.91	31.92	0.854	0.855	NO	100.4	100	0.0704	
180	1... 13C-PCB-47	1.11e6	0.78	NO	0.893	1.000	32.43	32.44	0.868	0.868	NO	99.14	99.1	0.0665	
181	1... 13C-PCB-70	1.26e6	0.78	NO	1.01	1.000	36.07	36.07	0.966	0.966	NO	99.23	99.2	0.0590	
182	1... 13C-PCB-80	1.31e6	0.77	NO	1.05	1.000	36.51	36.52	0.977	0.978	NO	99.87	99.9	0.0568	
183	1... 13C-PCB-81	1.24e6	0.77	NO	0.985	1.000	39.72	39.72	1.063	1.063	NO	100.6	101	0.0603	
184	1... 13C-PCB-77	1.21e6	0.81	NO	0.958	1.000	40.33	40.35	1.080	1.080	NO	100.4	100	0.0620	
185	1... 13C-PCB-104	1.29e6	1.60	NO	1.10	1.000	33.10	33.11	0.829	0.829	NO	99.39	99.4	0.0288	
186	1... 13C-PCB-95	9.93e5	1.62	NO	0.852	1.000	36.37	36.39	0.911	0.911	NO	98.70	98.7	0.0370	
187	1... 13C-PCB-101	9.65e5	1.61	NO	0.814	1.000	38.12	38.14	0.955	0.955	NO	100.4	100	0.0388	
188	1... 13C-PCB-97	8.38e5	1.60	NO	0.709	1.000	39.47	39.48	0.989	0.989	NO	100.0	100	0.0445	
189	1... 13C-PCB-123	1.08e6	1.61	NO	0.922	1.000	42.12	42.14	1.055	1.055	NO	99.15	99.1	0.0342	
190	1... 13C-PCB-118	1.14e6	1.58	NO	0.975	1.000	42.32	42.32	1.060	1.060	NO	99.01	99.0	0.0324	
191	1... 13C-PCB-114	9.64e5	1.57	NO	1.52	1.000	43.02	43.00	0.910	0.909	NO	95.80	95.8	0.0533	
192	1... 13C-PCB-105	1.01e6	1.55	NO	1.58	1.000	43.89	43.89	0.928	0.928	NO	96.05	96.0	0.0512	
193	1... 13C-PCB-127	1.03e6	1.56	NO	1.62	1.000	44.23	44.25	0.935	0.936	NO	95.77	95.8	0.0500	
194	1... 13C-PCB-126	9.34e5	1.57	NO	1.45	1.000	46.20	46.20	0.977	0.977	NO	97.55	97.5	0.0561	
195	1... 13C-PCB-155	1.20e6	1.28	NO	1.03	1.000	37.65	37.65	0.943	0.943	NO	99.08	99.1	0.0115	
196	1... 13C-PCB-153	9.25e5	1.24	NO	1.42	1.000	44.04	44.06	0.931	0.932	NO	98.14	98.1	0.0601	
197	1... 13C-PCB-141	7.48e5	1.25	NO	1.14	1.000	44.81	44.82	0.947	0.948	NO	98.89	98.9	0.0749	
198	1... 13C-PCB-138	7.77e5	1.24	NO	1.18	1.000	45.69	45.69	0.966	0.966	NO	99.38	99.4	0.0726	
199	1... 13C-PCB-159	9.32e5	1.25	NO	1.43	1.000	47.01	47.01	0.994	0.994	NO	98.19	98.2	0.0597	
200	2... 13C-PCB-167	9.29e5	1.27	NO	1.42	1.000	47.71	47.71	1.009	1.009	NO	98.54	98.5	0.0601	
201	2... 13C-PCB-156	9.22e5	1.28	NO	1.40	1.000	49.04	49.06	1.037	1.037	NO	99.60	99.6	0.0613	
202	2... 13C-PCB-157	9.26e5	1.31	NO	1.41	1.000	49.32	49.33	1.043	1.043	NO	99.38	99.4	0.0609	
203	2... 13C-PCB-169	8.95e5	1.25	NO	1.35	1.000	51.60	51.60	1.091	1.091	NO	100.4	100	0.0636	
204	2... 13C-PCB-188	8.81e5	0.46	NO	1.46	1.000	43.66	43.68	0.927	0.927	NO	94.37	94.4	0.0454	
205	2... 13C-PCB-180	5.93e5	0.46	NO	0.932	1.000	50.37	50.39	1.069	1.070	NO	99.77	99.8	0.0712	
206	2... 13C-PCB-170	5.11e5	0.45	NO	0.796	1.000	52.03	52.03	1.104	1.105	NO	100.6	101	0.0834	
207	2... 13C-PCB-189	6.95e5	0.44	NO	1.09	1.000	53.72	53.72	1.140	1.140	NO	99.84	99.8	0.0609	
208	2... 13C-PCB-202	9.02e5	0.96	NO	1.45	1.000	49.27	49.27	1.042	1.042	NO	97.44	97.4	0.0319	
209	2... 13C-PCB-194	6.05e5	0.86	NO	0.714	1.000	55.31	55.31	0.995	0.995	NO	96.92	96.9	0.0485	
210	2... 13C-PCB-208	7.80e5	0.76	NO	0.896	1.000	54.57	54.56	0.982	0.982	NO	99.51	99.5	0.0437	
211	2... 13C-PCB-206	5.65e5	0.80	NO	0.653	1.000	56.85	56.85	1.023	1.023	NO	98.96	99.0	0.0600	
212	2... 13C-PCB-209	7.07e5	1.19	NO	0.806	1.000	58.07	58.06	1.045	1.044	NO	100.4	100	0.00637	

Dataset: U:\VG11.PRO\Results\190628K2\190628K2-7.qld

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Name: 190628K2\_7, Date: 28-Jun-2019, Time: 22:43:59, ID: SS190628K2-1 PCB 209 SS 19C1113, Description: PCB 209 SS 19C1113

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	1.85e6	1.59	NO	1.00	1.000	26.14	26.14	1.000	0.000	NO	100.0	100	0.0243	
214	2... 13C-PCB-31	1.48e6	0.97	NO	1.00	1.000	29.30	29.30	1.000	0.000	NO	100.0	100	0.300	
215	2... 13C-PCB-60	1.26e6	0.76	NO	1.00	1.000	37.37	37.35	1.000	0.000	NO	100.0	100	0.0594	
216	2... 13C-PCB-111	1.18e6	1.61	NO	1.00	1.000	39.94	39.92	1.000	0.000	NO	100.0	100	0.0316	
217	2... 13C-PCB-128	6.62e5	1.26	NO	1.00	1.000	47.32	47.30	1.000	0.000	NO	100.0	100	0.0856	
218	2... 13C-PCB-182	6.38e5	0.45	NO	1.00	1.000	47.13	47.11	0.000	0.000	NO	100.0	100	0.0664	
219	2... 13C-PCB-205	8.75e5	0.91	NO	1.00	1.000	55.60	55.59	1.000	0.000	NO	100.0	100	0.0346	
220	2... 13C-PCB-79	1.34e6	0.76	NO	1.03	1.000	38.45	38.45	1.029	1.029	NO	103.2	103	0.0576	136
221	2... 13C-PCB-178	5.92e5	0.45	NO	0.875	1.000	46.56	46.56	0.988	0.988	NO	102.2	102	0.0727	
222	2... 13C-PCB-79	1.34e6	0.76	NO	1.05	1.000	38.45	38.45	0.968	0.968	NO	102.9	103	0.0588	
223	2... 13C-PCB-178	5.92e5	0.45	NO	0.975	1.000	46.58	46.56	0.924	0.924	NO	102.4	102	0.0765	

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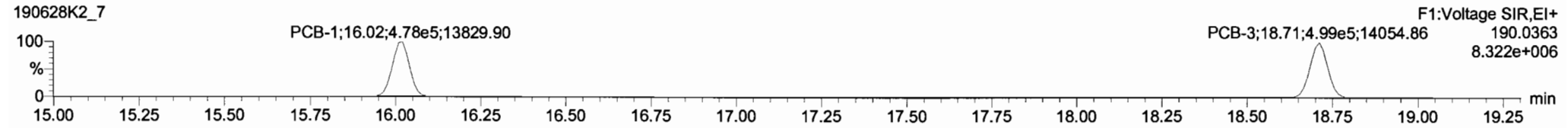
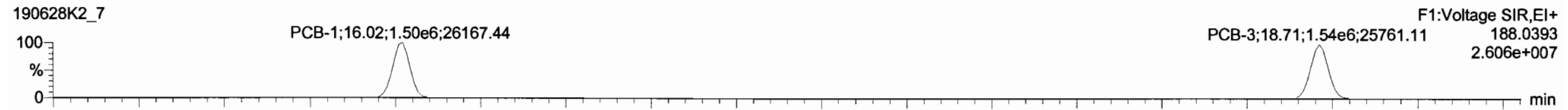
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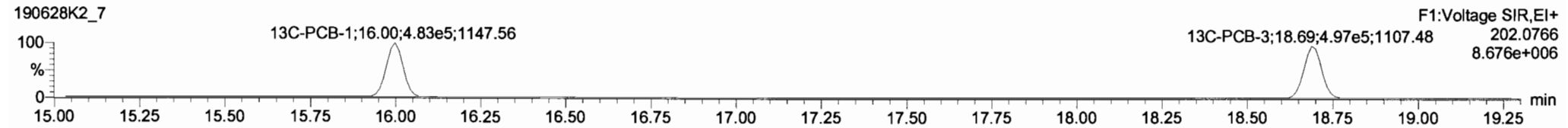
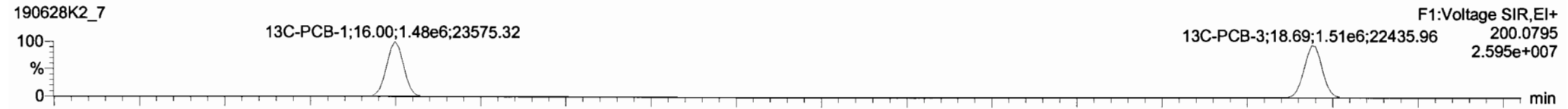
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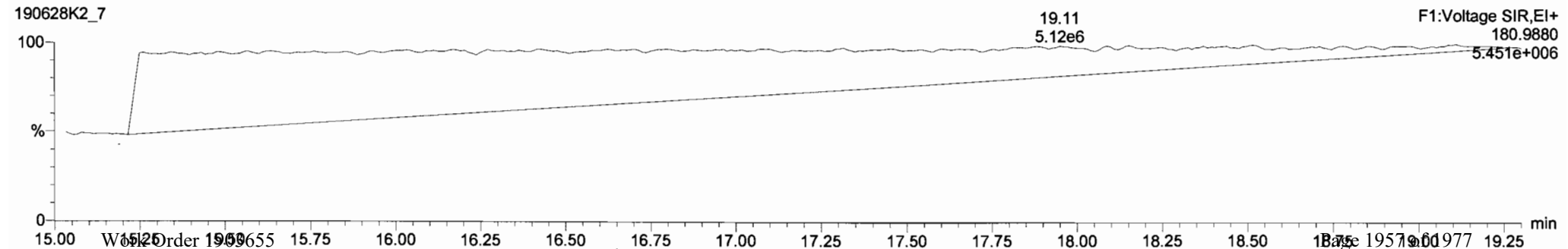
**PCB-1**



**13C-PCB-1**



**PFK1**



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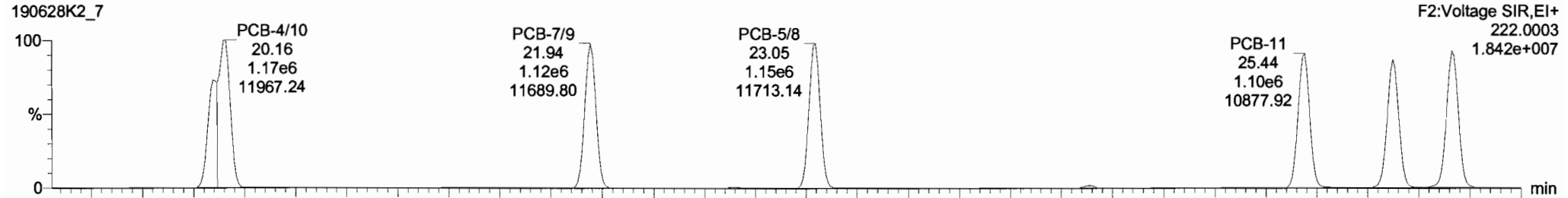
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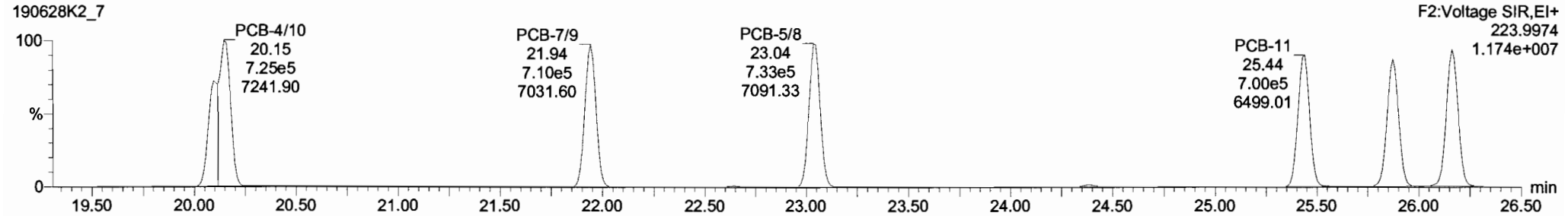
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**PCB-4/10**

190628K2\_7

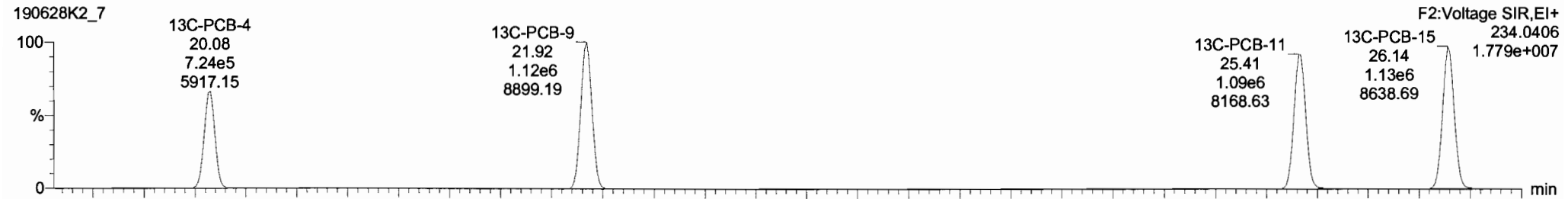


190628K2\_7

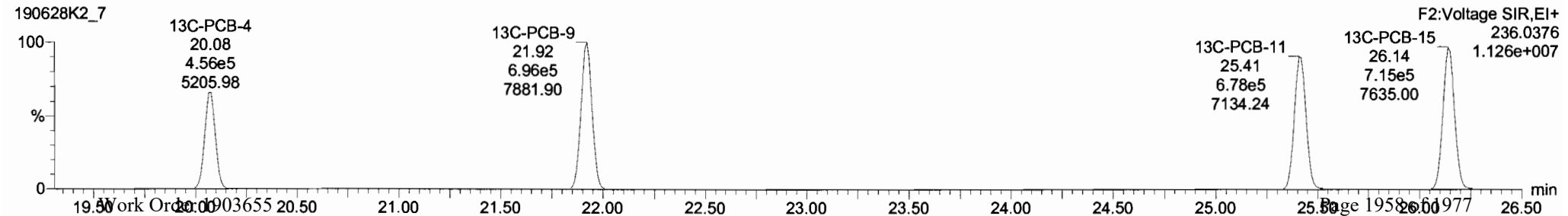


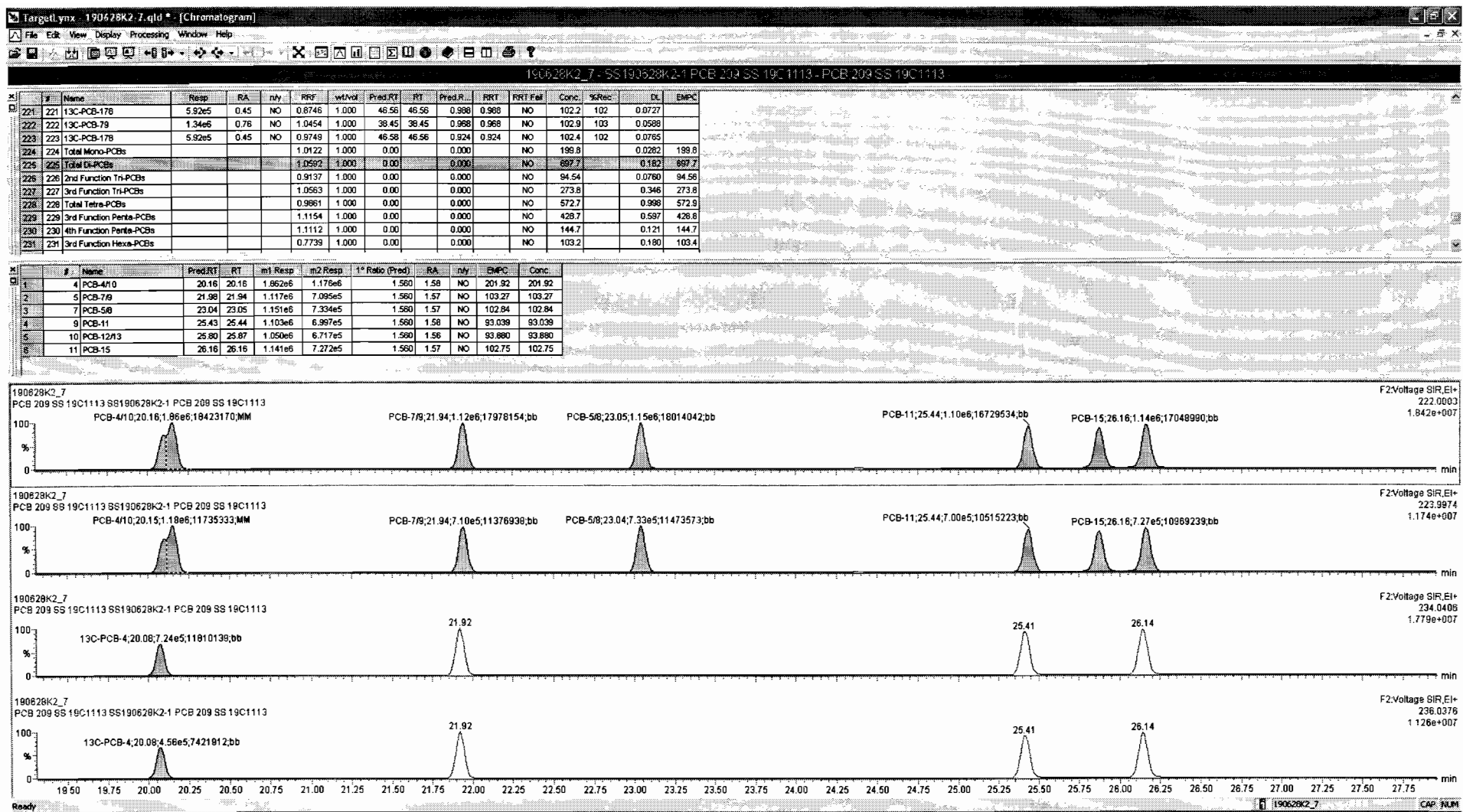
**13C-PCB-4**

190628K2\_7



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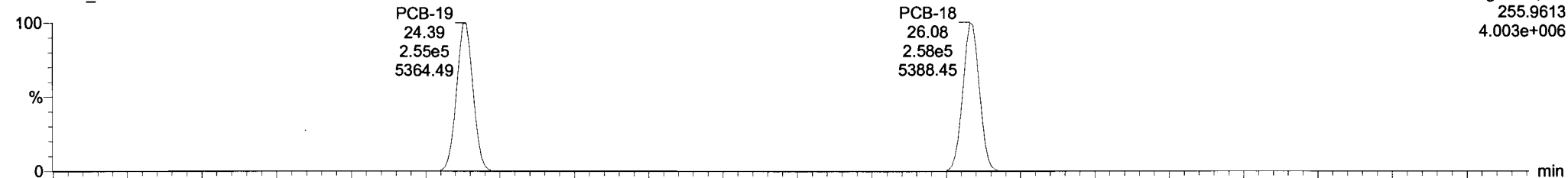
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Printed: Saturday, June 29, 2019 13:19:29 Pacific Daylight Time

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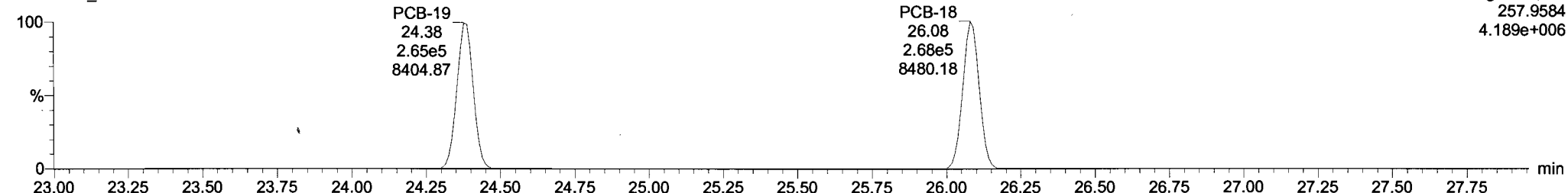
**PCB-19**

190628K2\_7



F2:Voltage SIR,EI+  
255.9613  
4.003e+006

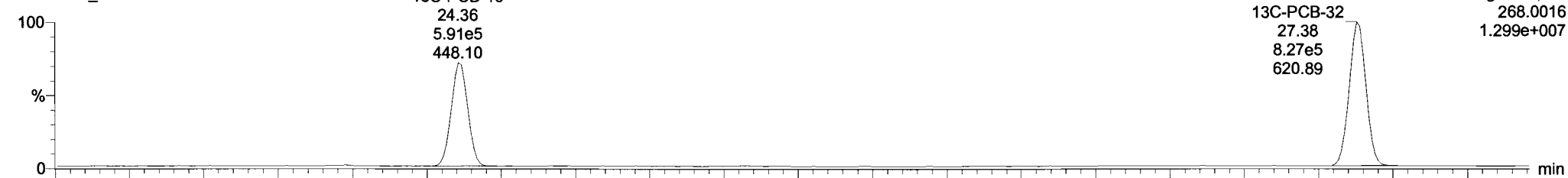
190628K2\_7



F2:Voltage SIR,EI+  
257.9584  
4.189e+006

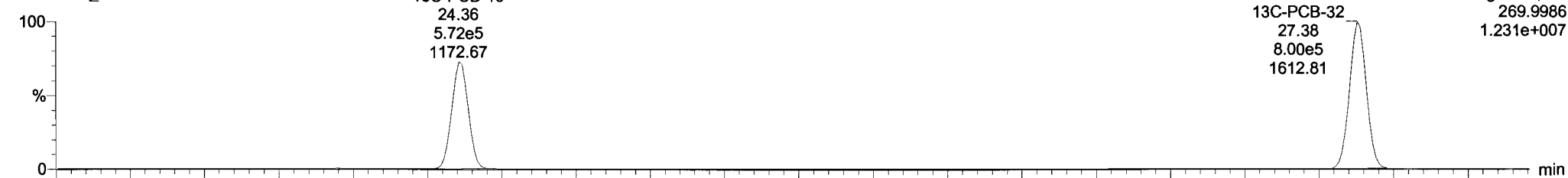
**13C-PCB-19**

190628K2\_7



F2:Voltage SIR,EI+  
268.0016  
1.299e+007

190628K2\_7



F2:Voltage SIR,EI+  
269.9986  
1.231e+007

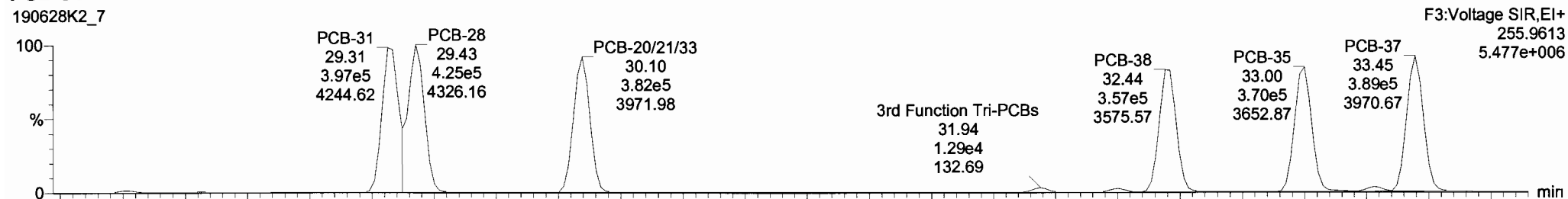
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Last Altered: Saturday, June 29, 2019 13:14:13 Pacific Daylight Time  
Printed: Saturday, June 29, 2019 13:19:29 Pacific Daylight Time

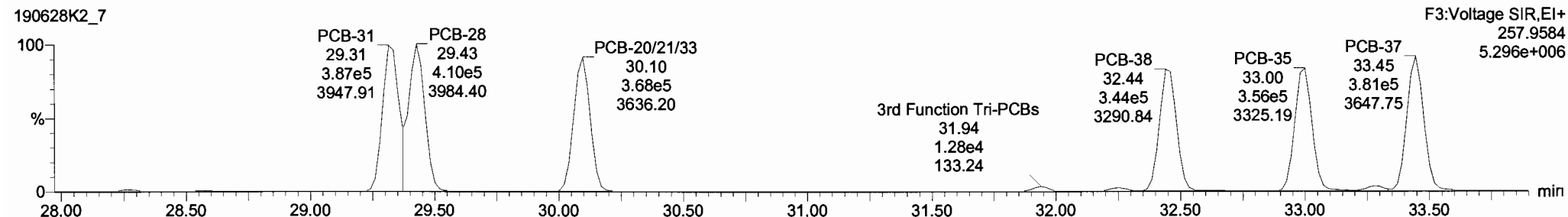
Name: 190628K2\_7, Date: 28-Jun-2019, Time: 22:43:59, ID: SS190628K2-1 PCB 209 SS 19C1113, Description: PCB 209 SS 19C1113

**PCB-34**

190628K2\_7

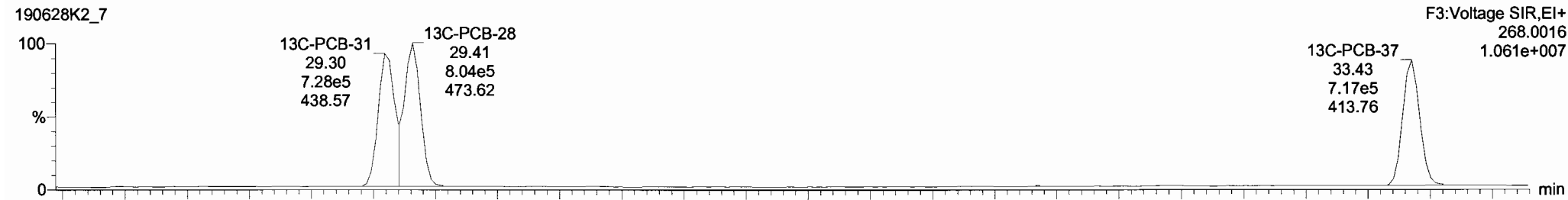


190628K2\_7

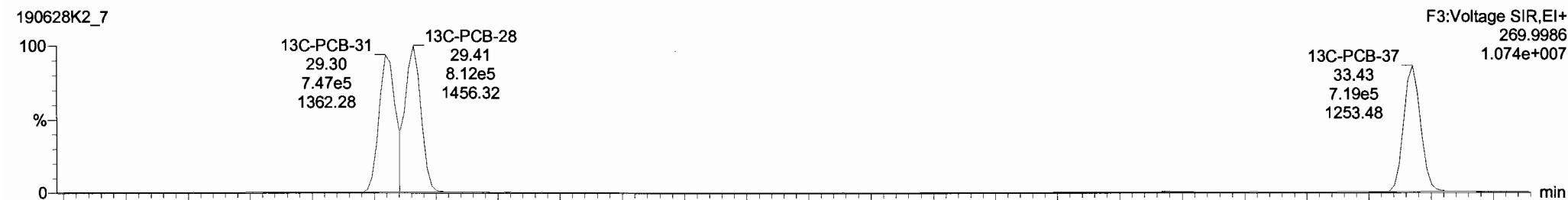


**13C-PCB-28**

190628K2\_7



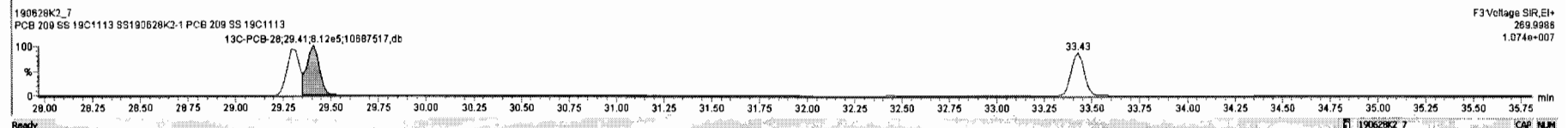
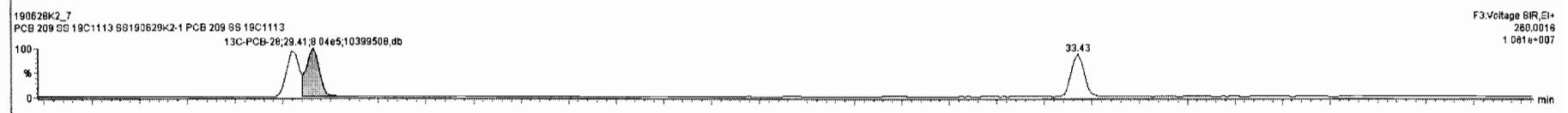
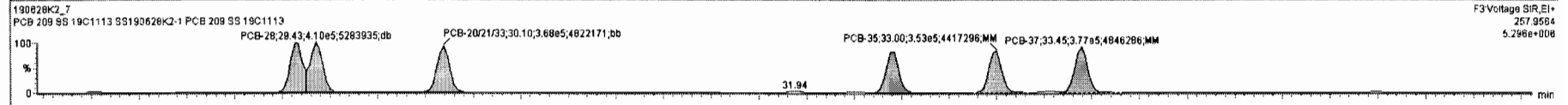
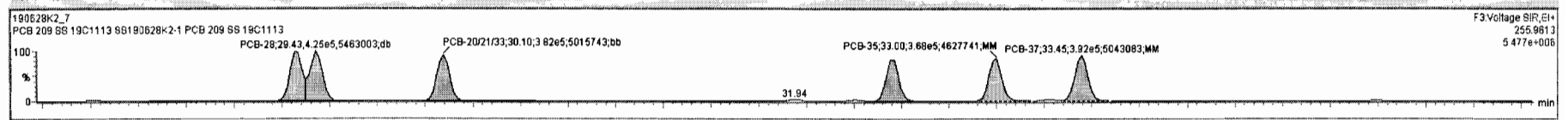
190628K2\_7



190628K2\_7 - SS190628K2-1 PCB 209 SS 19C1113 - PCB 209 SS 19C1113

#	Name	Resp	RA	n/y	RF	w/Vol	Pred RT	RT	Pred.R	RRT	RRT Fall	Conc	%Rec	DL	EMPC
221	13C-PCB-178	5.92e5	0.45	NO	0.8746	1.000	46.58	46.58	0.988	0.988	NO	102.2	102	0.0727	
222	13C-PCB-79	1.34e6	0.76	NO	1.0454	1.000	38.45	38.45	0.968	0.968	NO	102.9	103	0.0586	
223	13C-PCB-178	5.92e5	0.45	NO	0.9749	1.000	46.58	46.58	0.924	0.924	NO	102.4	102	0.0765	
224	224 Total Mono-PCBs				1.0122	1.000	0.00	0.00	0.000		NO	199.8		0.0282	199.8
225	225 Total Di-PCBs				1.0592	1.000	0.00	0.00	0.000		NO	697.7		0.182	697.7
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00	0.00	0.000		NO	94.54		0.0760	94.54
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00	0.00	0.000		NO	272.2		0.346	272.2
228	228 Total Tetra-PCBs				0.9861	1.000	0.00	0.00	0.000		NO	572.7		0.998	572.9
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00	0.00	0.000		NO	428.7		0.587	428.8
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00	0.00	0.000		NO	144.7		0.121	144.7
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00	0.00	0.000		NO	103.2		0.180	103.4

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	23 PCB-31	29.31	29.31	3.972e5	3.867e5	1.040	1.03	NO	43.205	43.205
2	24 PCB-28	28.43	28.43	4.250e5	4.097e5	1.040	1.04	NO	46.723	46.723
3	25 PCB-20/21/33	30.05	30.10	3.818e5	3.681e5	1.040	1.04	NO	46.246	46.246
4	29 PCB-36	32.46	32.44	3.574e5	3.439e5	1.040	1.04	NO	43.258	43.258
5	30 PCB-35	33.00	33.00	3.885e5	3.534e5	1.040	1.04	NO	44.382	44.382
6	31 PCB-37	33.46	33.45	3.920e5	3.774e5	1.040	1.04	NO	46.420	46.420





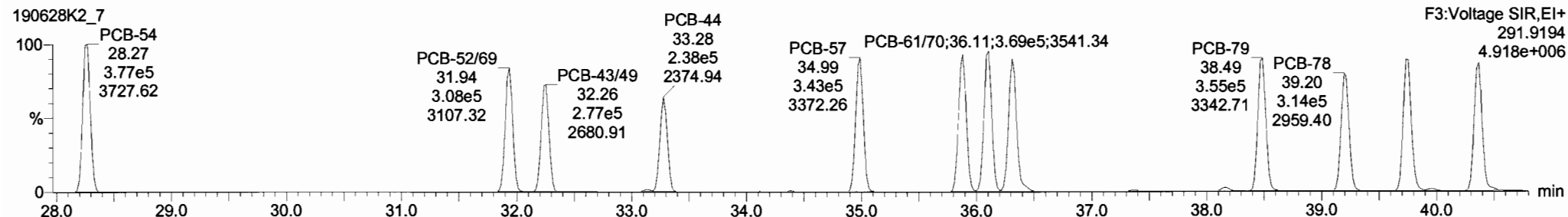
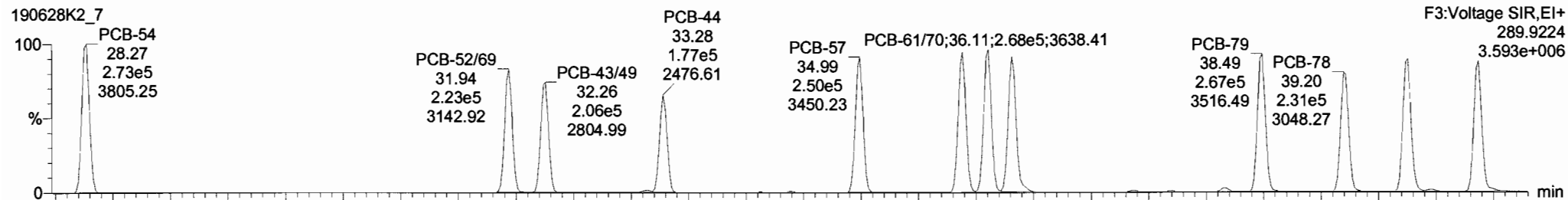
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Last Altered: Saturday, June 29, 2019 13:14:13 Pacific Daylight Time

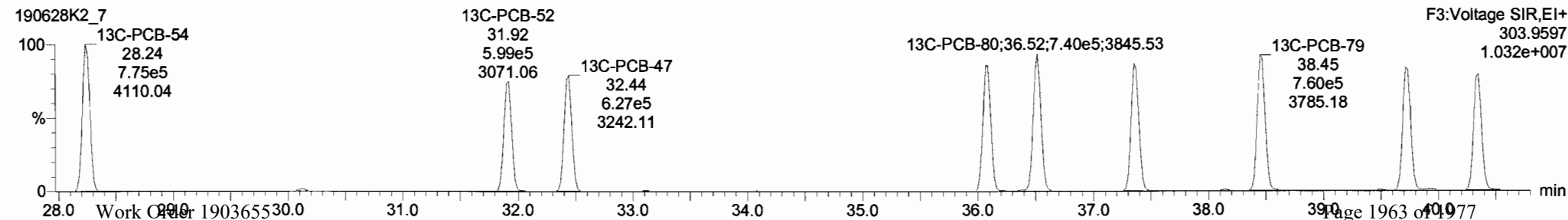
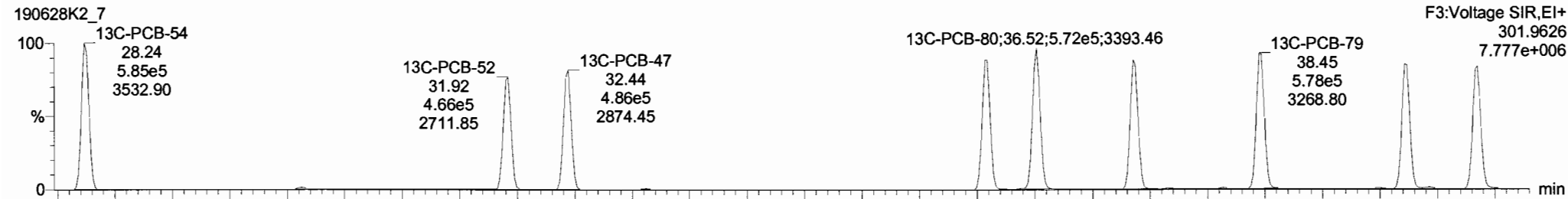
Printed: Saturday, June 29, 2019 13:19:29 Pacific Daylight Time

Name: 190628K2\_7, Date: 28-Jun-2019, Time: 22:43:59, ID: SS190628K2-1 PCB 209 SS 19C1113, Description: PCB 209 SS 19C1113

**PCB-54**



**13C-PCB-54**



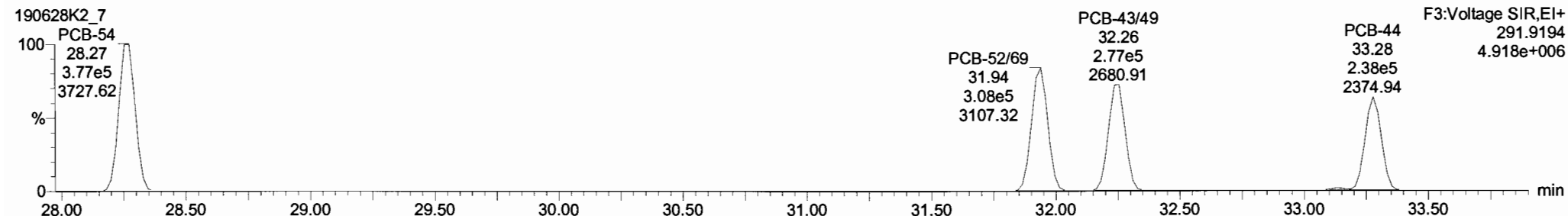
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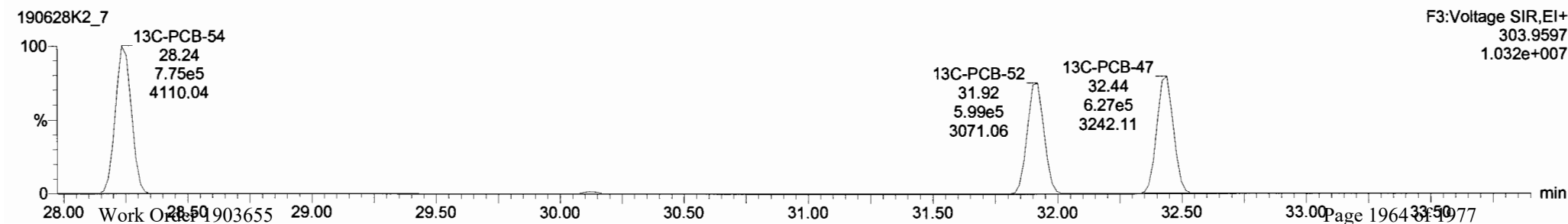
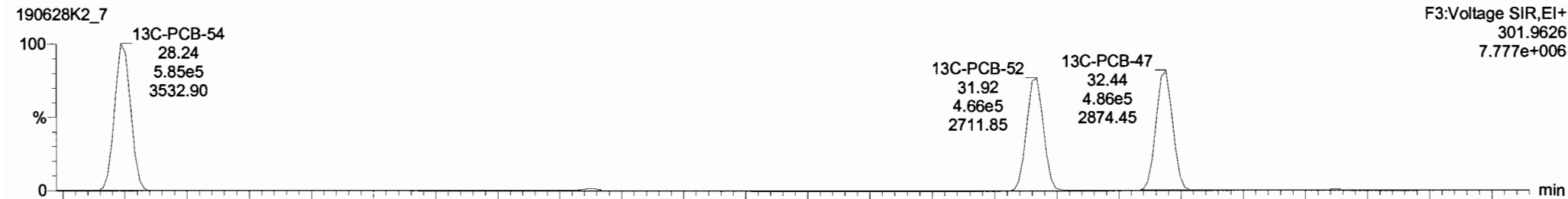
Printed: Saturday, June 29, 2019 13:19:29 Pacific Daylight Time

Name: 190628K2\_7, Date: 28-Jun-2019, Time: 22:43:59, ID: SS190628K2-1 PCB 209 SS 19C1113, Description: PCB 209 SS 19C1113

**PCB-50**



**13C-PCB-52**



Dataset: Untitled

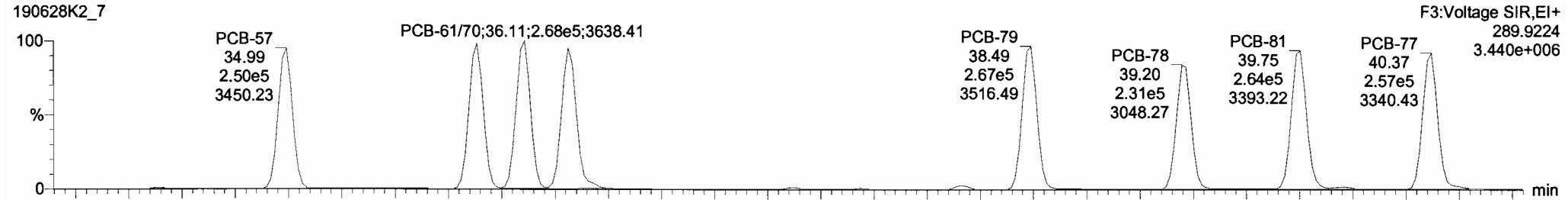
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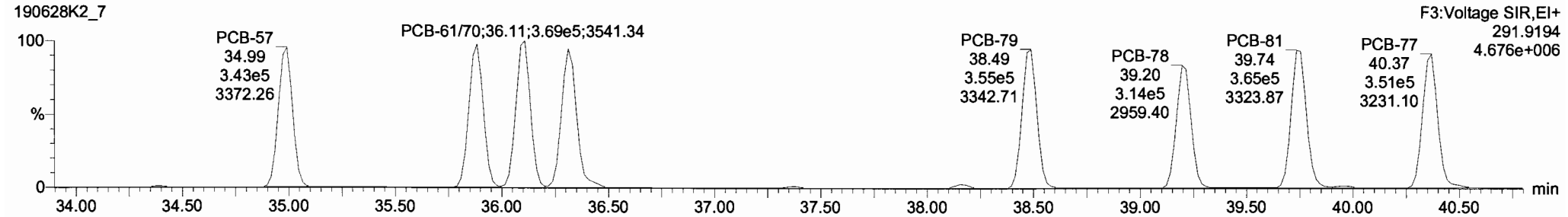
Name: 190628K2\_7, Date: 28-Jun-2019, Time: 22:43:59, ID: SS190628K2-1 PCB 209 SS 19C1113, Description: PCB 209 SS 19C1113

**PCB-68**

190628K2\_7

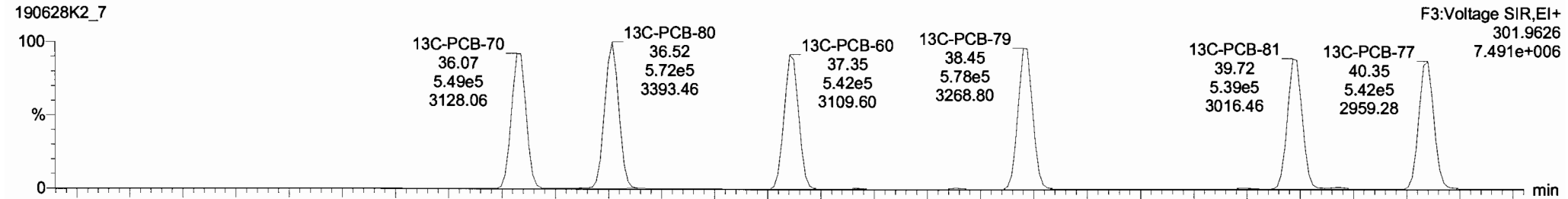


190628K2\_7

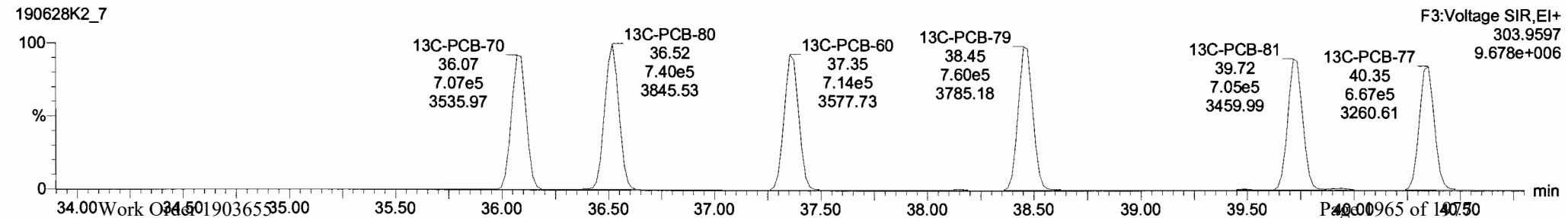


**13C-PCB-60**

190628K2\_7

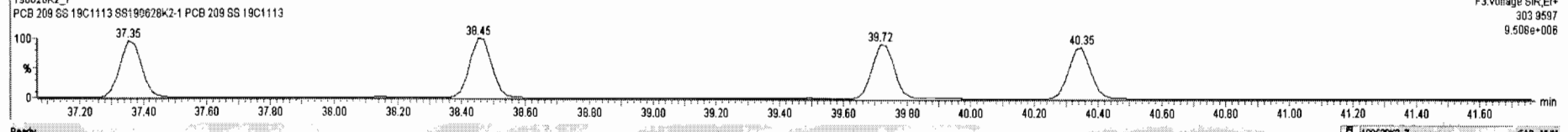
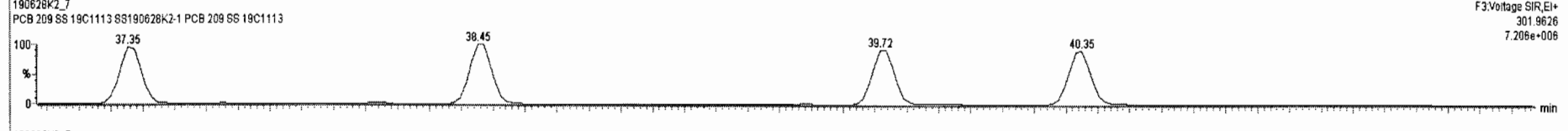
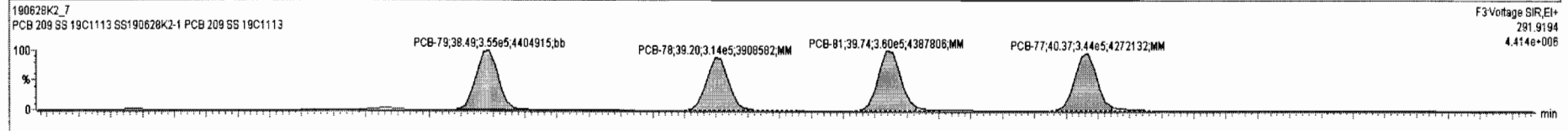
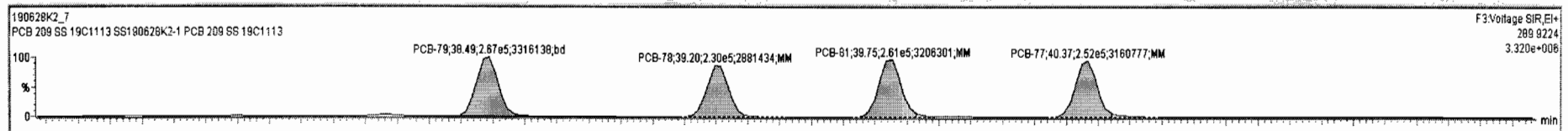


190628K2\_7



#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
221	221 13C-PCB-178	5.92e5	0.45	NO	0.6746	1.000	46.56	46.56	0.968	0.968	NO	102.2	102	0.0727	
222	222 13C-PCB-79	1.3466	0.76	NO	1.0454	1.000	38.45	38.45	0.968	0.968	NO	102.9	103	0.0588	
223	223 13C-PCB-178	5.92e5	0.45	NO	0.9749	1.000	46.58	46.56	0.924	0.924	NO	102.4	102	0.0765	
224	224 Total Mono-PCBs				1.0122	1.000	0.00	0.00	0.000	0.000	NO	199.8		0.0262	199.8
225	225 Total Di-PCBs				1.0592	1.000	0.00	0.00	0.000	0.000	NO	697.7		0.182	697.7
226	226 2nd Function Tri-PCBs				0.9137	1.000	0.00	0.00	0.000	0.000	NO	94.54		0.0760	94.54
227	227 3rd Function Tri-PCBs				1.0563	1.000	0.00	0.00	0.000	0.000	NO	272.2		0.346	272.2
228	228 Total Tetra-PCBs				0.9661	1.000	0.00	0.00	0.000	0.000	NO	568.4		0.906	568.4
229	229 3rd Function Penta-PCBs				1.1154	1.000	0.00	0.00	0.000	0.000	NO	428.7		0.597	428.8
230	230 4th Function Penta-PCBs				1.1112	1.000	0.00	0.00	0.000	0.000	NO	144.7		0.121	144.7
231	231 3rd Function Hexa-PCBs				0.7739	1.000	0.00	0.00	0.000	0.000	NO	103.2		0.180	103.4

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc.
6	54 PCB-74	35.86	35.88	2.619e5	3.563e5	0.770	0.73	NO	46.188	46.188
7	55 PCB-61/70	36.09	36.11	2.675e5	3.687e5	0.770	0.73	NO	51.400	51.400
8	56 PCB-76/66	36.29	36.31	2.626e5	3.623e5	0.770	0.73	NO	46.689	46.689
9	60 PCB-79	38.46	38.49	2.674e5	3.554e5	0.770	0.75	NO	45.436	45.436
10	61 PCB-78	39.20	39.20	2.303e5	3.136e5	0.770	0.73	NO	42.366	42.366
11	62 PCB-81	39.73	39.75	2.610e5	3.606e5	0.770	0.72	NO	53.498	53.498
12	63 PCB-77	40.37	40.37	2.515e5	3.441e5	0.770	0.73	NO	47.720	47.720



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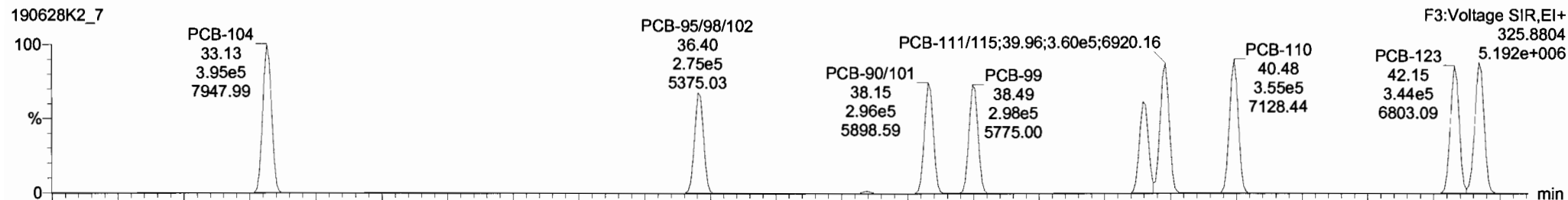
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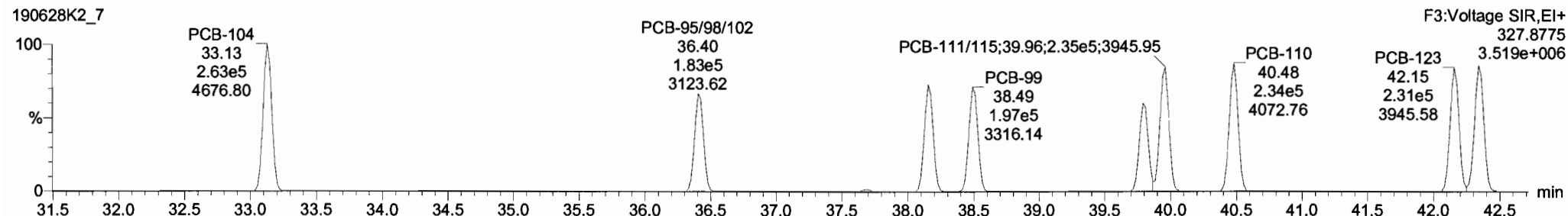
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**PCB-104**

190628K2\_7

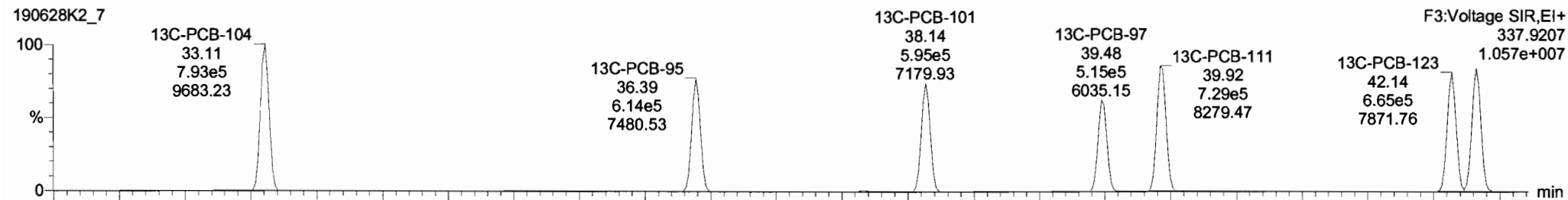


190628K2\_7

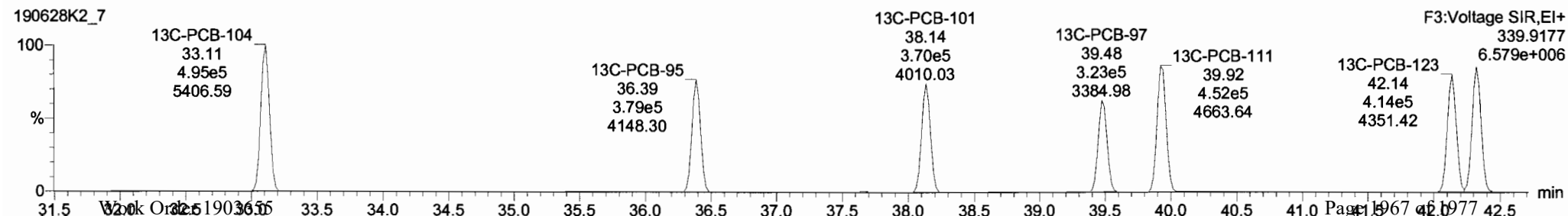


**13C-PCB-104**

190628K2\_7



190628K2\_7



Dataset: Untitled

Last Altered: Saturday, June 29, 2019 13:14:13 Pacific Daylight Time

Printed: Saturday, June 29, 2019 13:19:29 Pacific Daylight Time

Name: 190628K2\_7, Date: 28-Jun-2019, Time: 22:43:59, ID: SS190628K2-1 PCB 209 SS 19C1113, Description: PCB 209 SS 19C1113

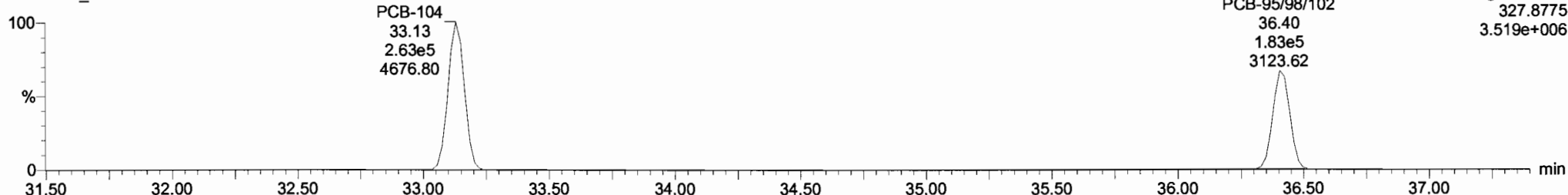
**PCB-96**

190628K2\_7



F3:Voltage SIR,EI+  
325.8804  
5.192e+006

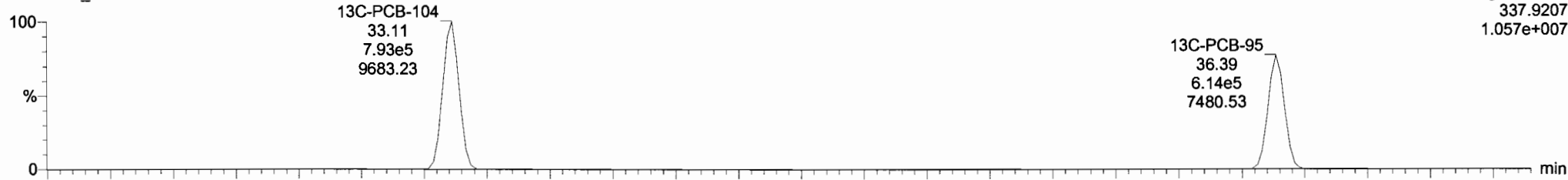
190628K2\_7



F3:Voltage SIR,EI+  
327.8775  
3.519e+006

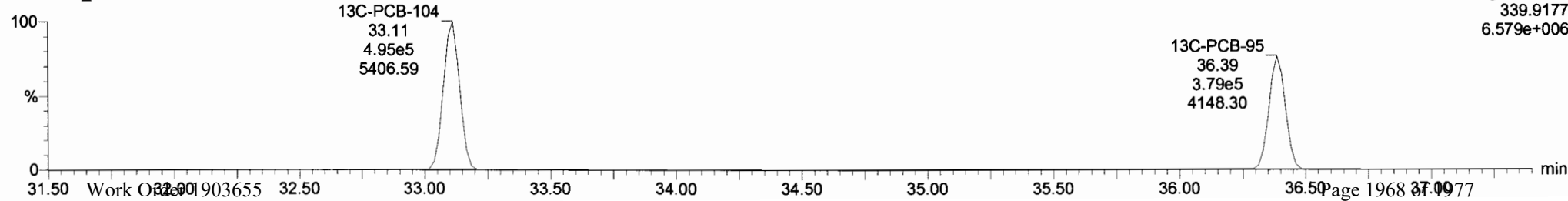
**13C-PCB-95**

190628K2\_7



F3:Voltage SIR,EI+  
337.9207  
1.057e+007

190628K2\_7



F3:Voltage SIR,EI+  
339.9177  
6.579e+006

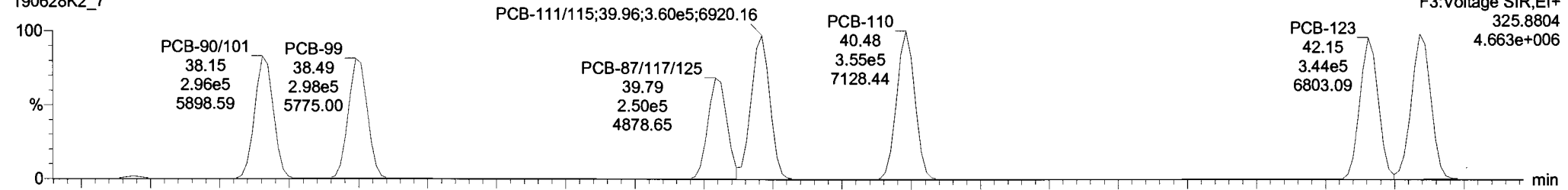
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Printed: Saturday, June 29, 2019 13:19:29 Pacific Daylight Time

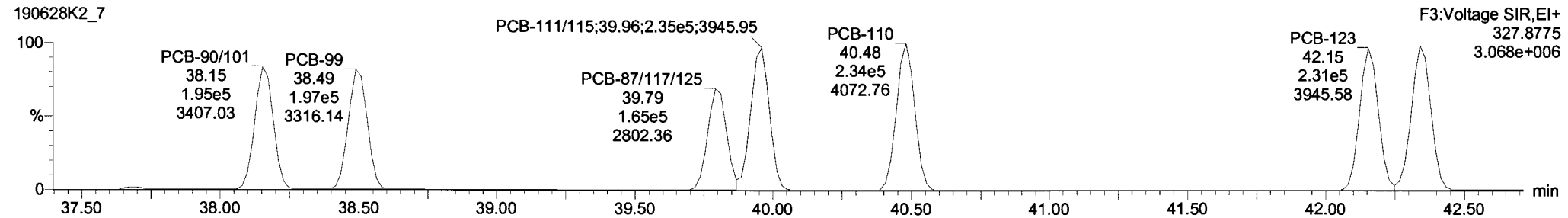
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**PCB-119**

190628K2\_7

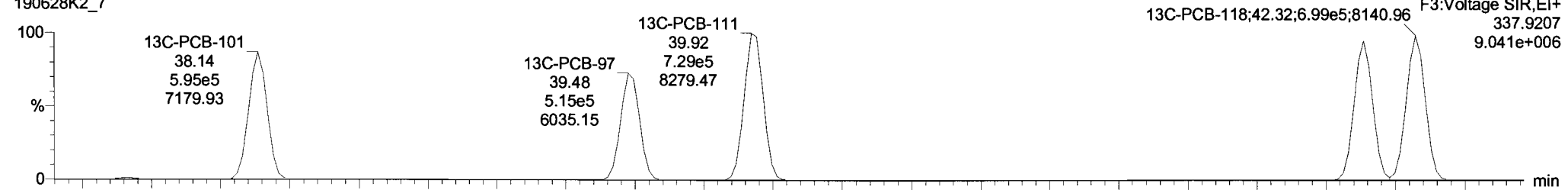


190628K2\_7

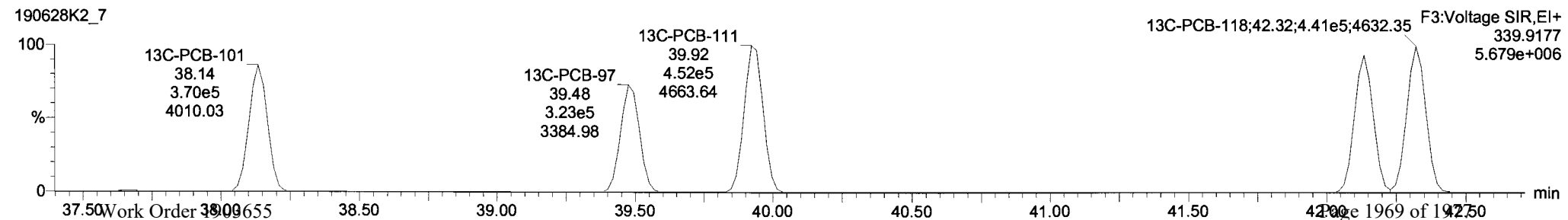


**13C-PCB-111**

190628K2\_7



190628K2\_7

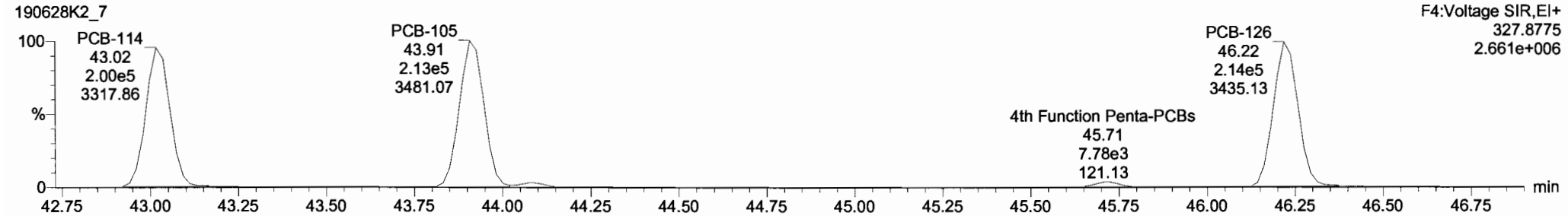
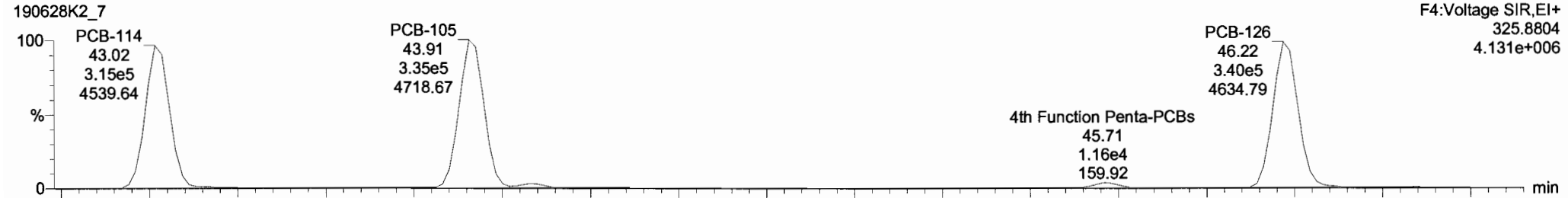


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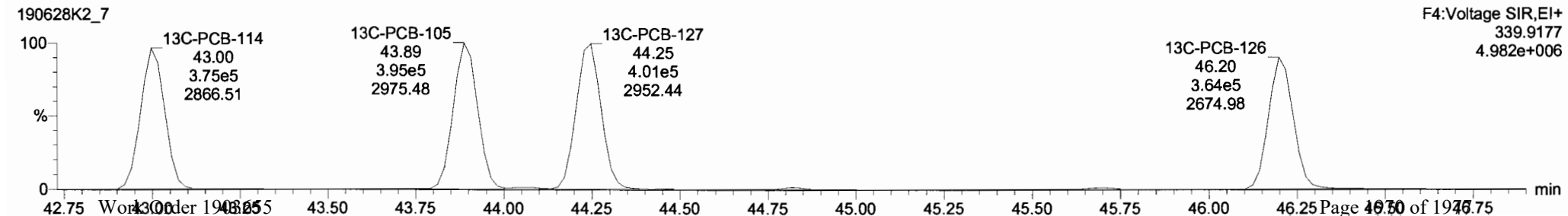
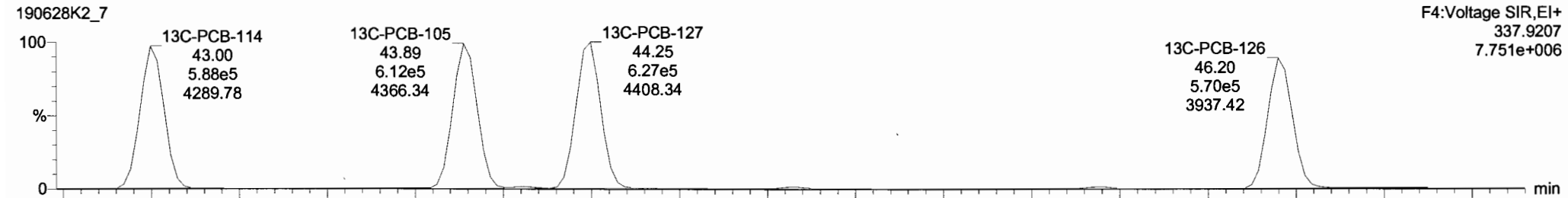
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Name: 190628K2\_7, Date: 28-Jun-2019, Time: 22:43:59, ID: SS190628K2-1 PCB 209 SS 19C1113, Description: PCB 209 SS 19C1113

**PCB-114**



**13C-PCB-114**





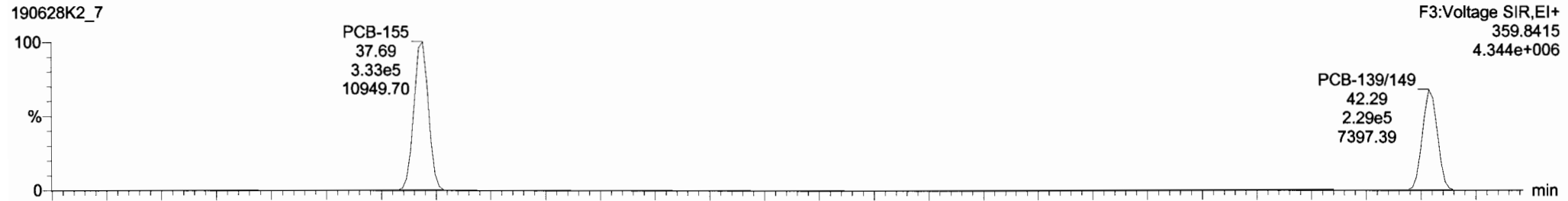
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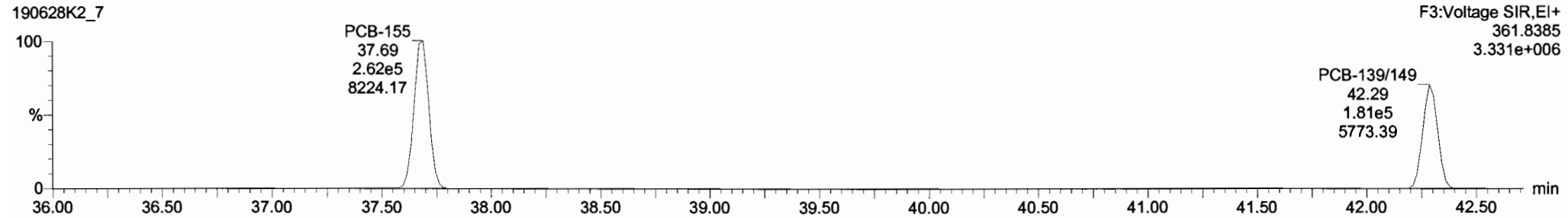
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**PCB-155**

190628K2\_7

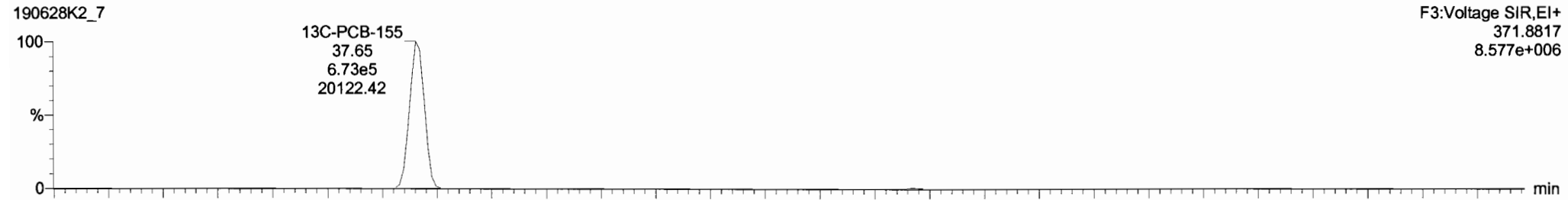


190628K2\_7

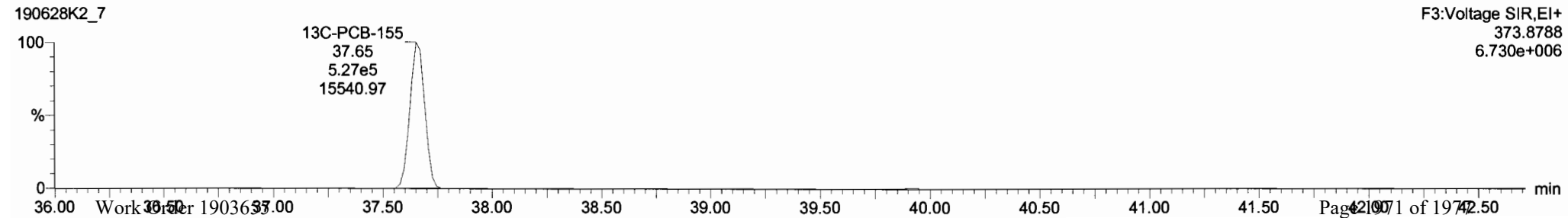


**13C-PCB-155**

190628K2\_7



190628K2\_7

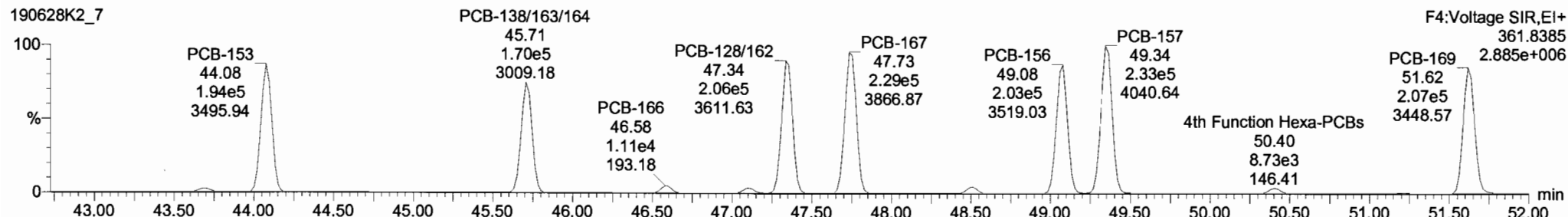
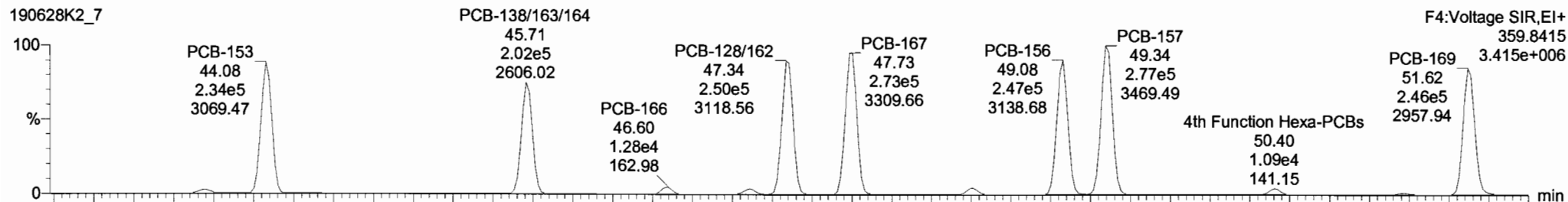


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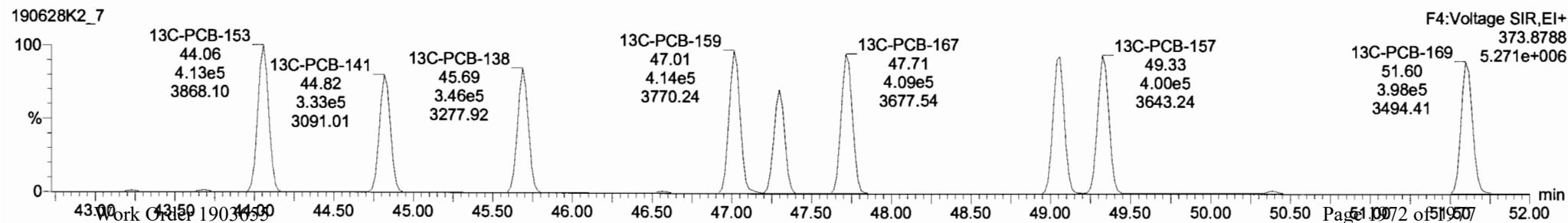
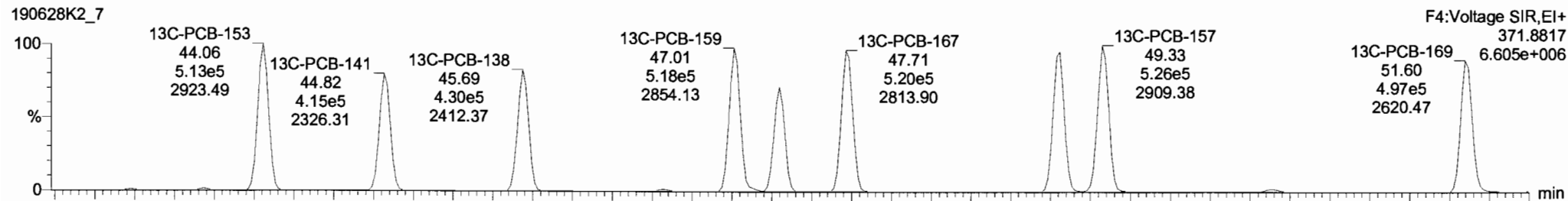
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Printed: Saturday, June 29, 2019 13:19:29 Pacific Daylight Time

Name: 190628K2\_7, Date: 28-Jun-2019, Time: 22:43:59, ID: SS190628K2-1 PCB 209 SS 19C1113, Description: PCB 209 SS 19C1113

PCB-134/143



13C-PCB-153



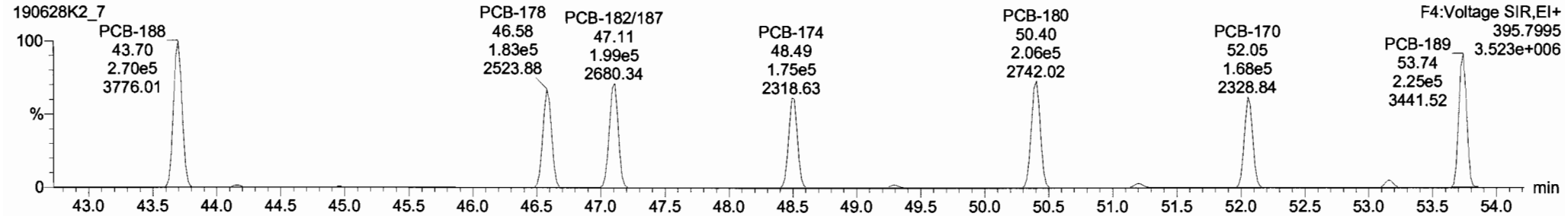
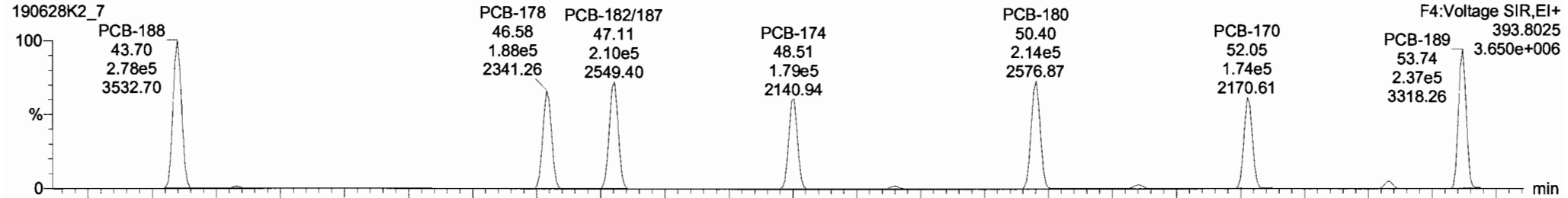
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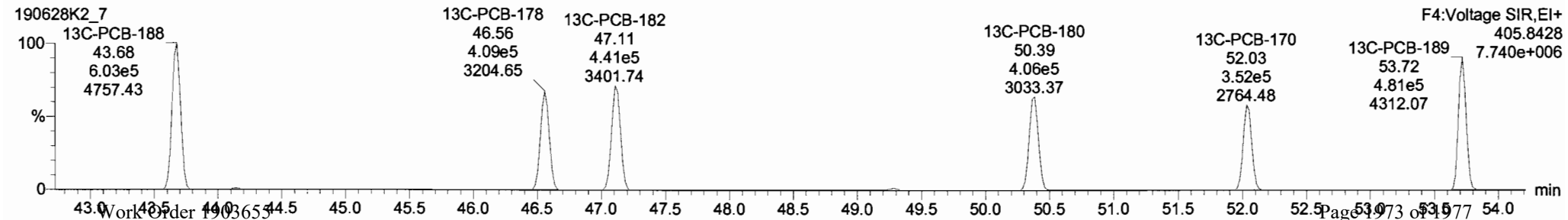
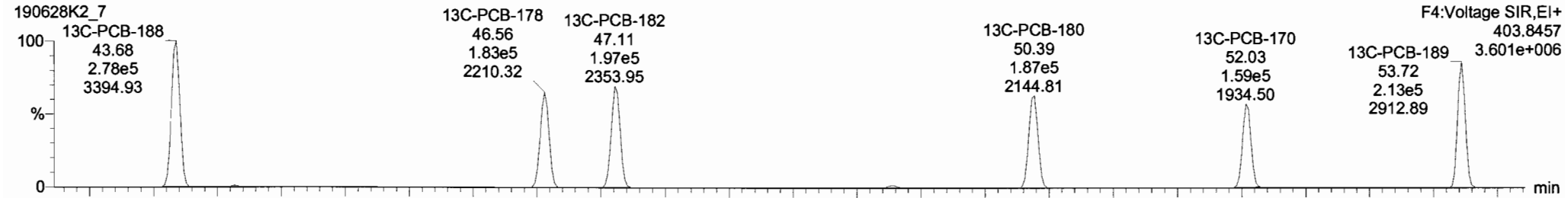
Printed: Saturday, June 29, 2019 13:19:29 Pacific Daylight Time

Name: 190628K2\_7, Date: 28-Jun-2019, Time: 22:43:59, ID: SS190628K2-1 PCB 209 SS 19C1113, Description: PCB 209 SS 19C1113

**PCB-188**



**13C-PCB-188**



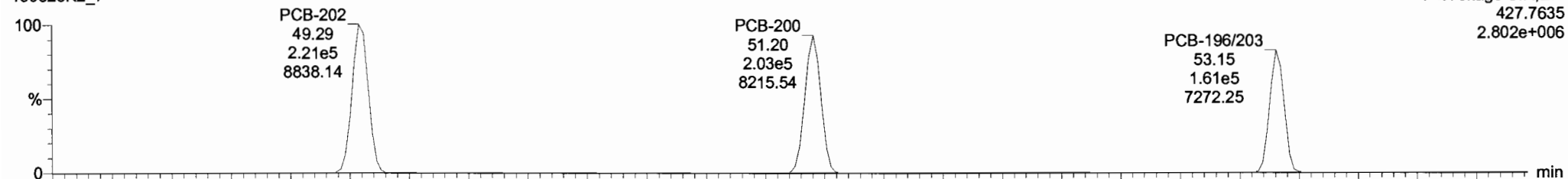
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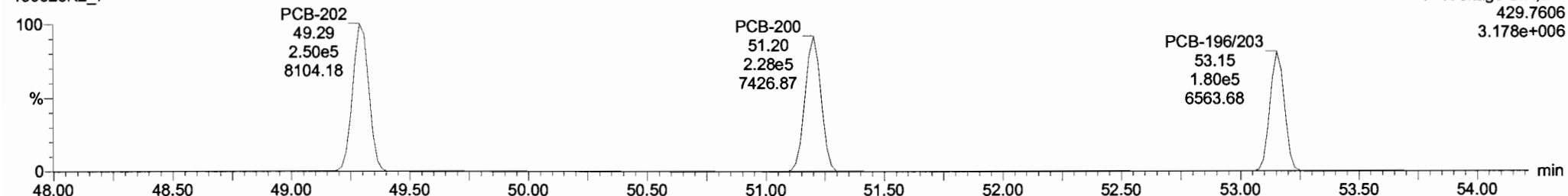
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**PCB-202**

190628K2\_7

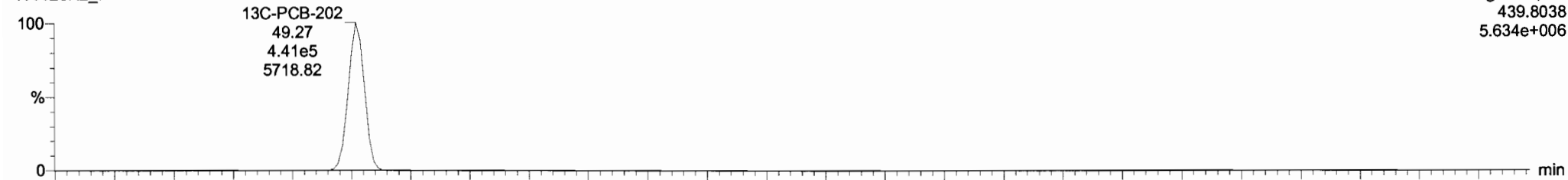


190628K2\_7

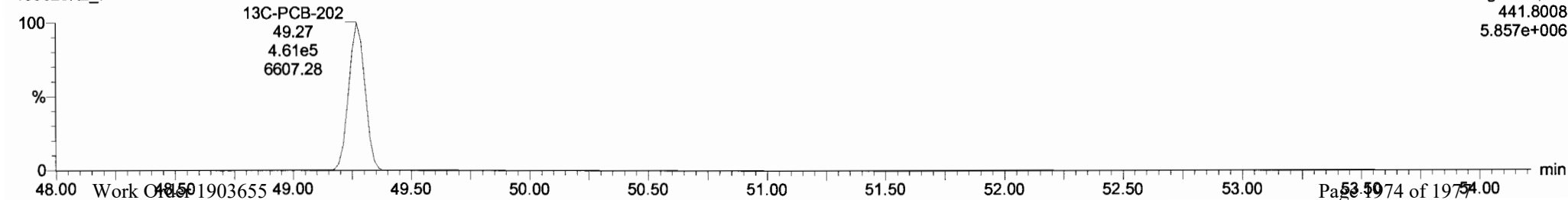


**13C-PCB-202**

190628K2\_7



190628K2\_7



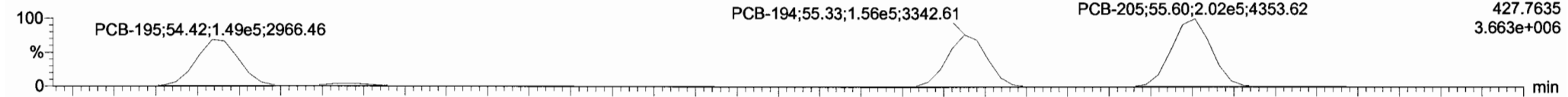
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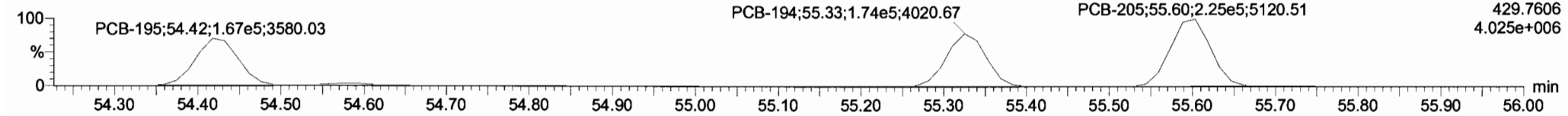
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**PCB-195**

190628K2\_7

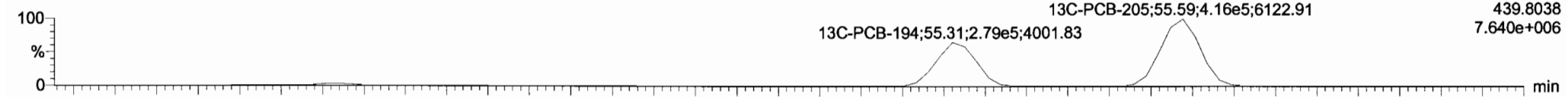


190628K2\_7

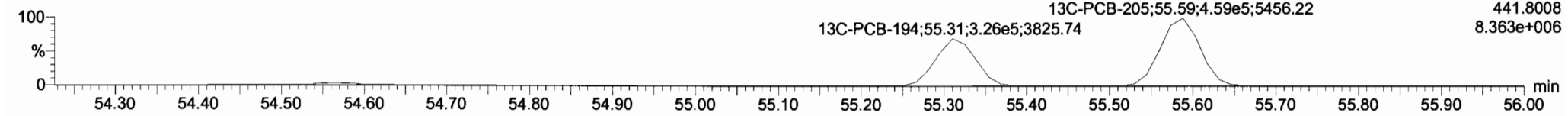


**13C-PCB-194**

190628K2\_7

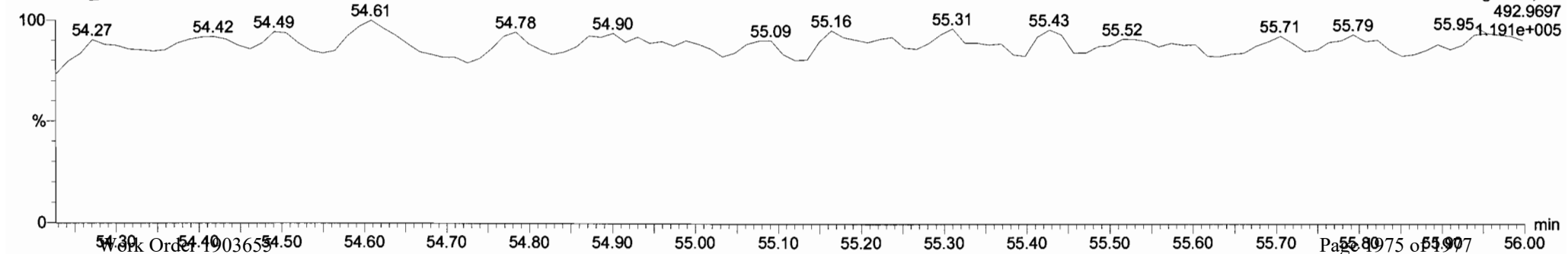


190628K2\_7



**PFK5**

190628K2\_7



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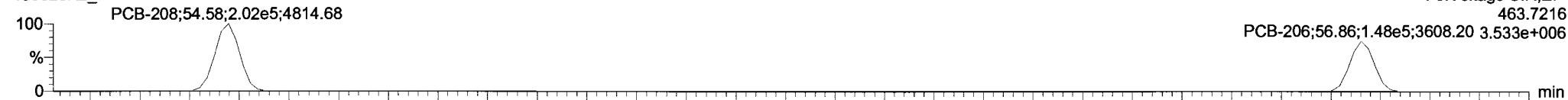
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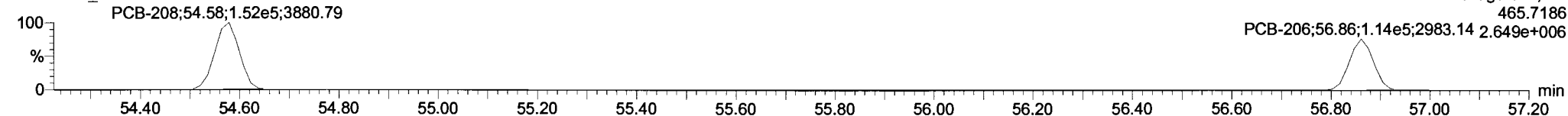
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**PCB-208**

190628K2\_7

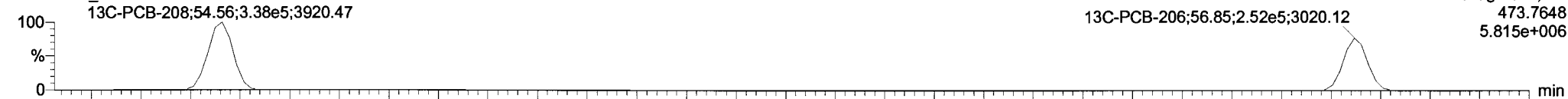


190628K2\_7

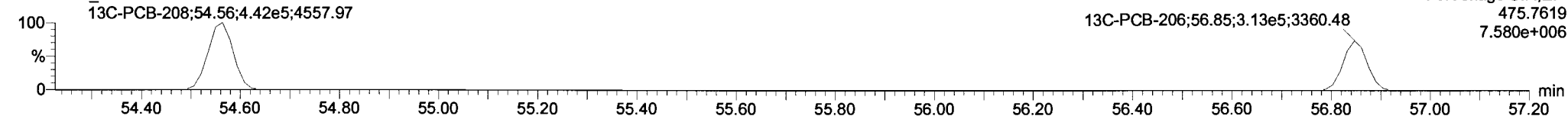


**13C-PCB-208**

190628K2\_7

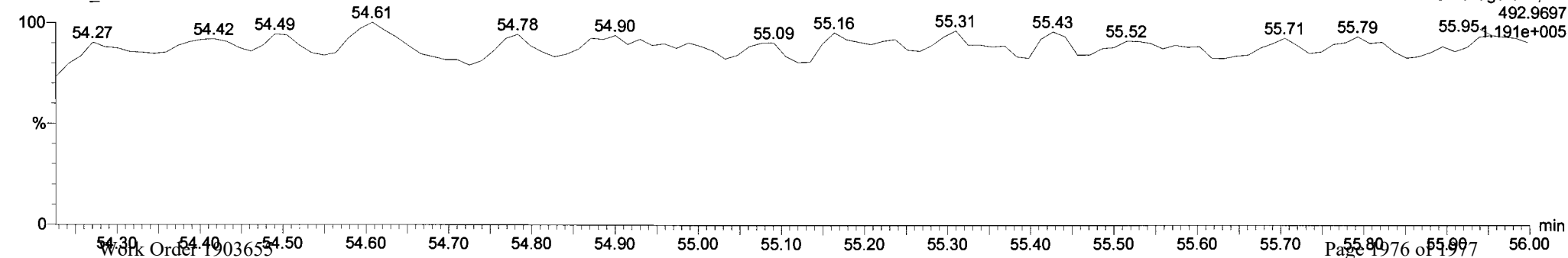


190628K2\_7



**PFK5**

190628K2\_7



Dataset: Untitled

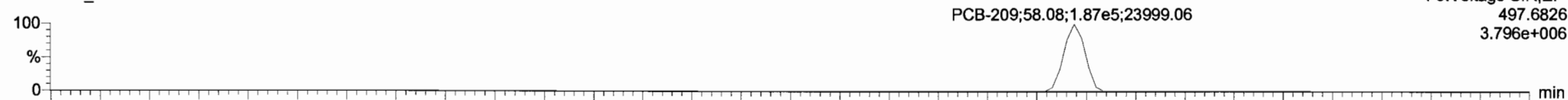
Last Altered: Saturday, June 29, 2019 13:14:13 Pacific Daylight Time

Printed: Saturday, June 29, 2019 13:19:29 Pacific Daylight Time

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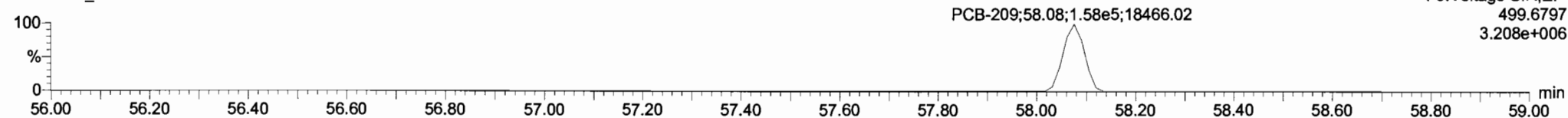
**PCB-209**

190628K2\_7



F5:Voltage SIR,EI+  
497.6826  
3.796e+006

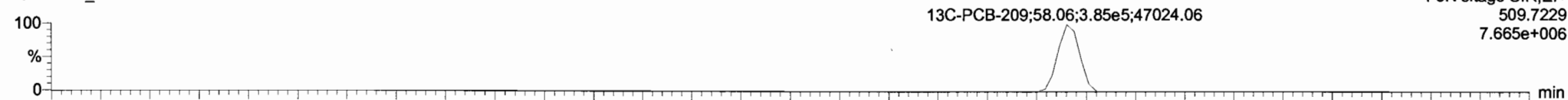
190628K2\_7



F5:Voltage SIR,EI+  
499.6797  
3.208e+006

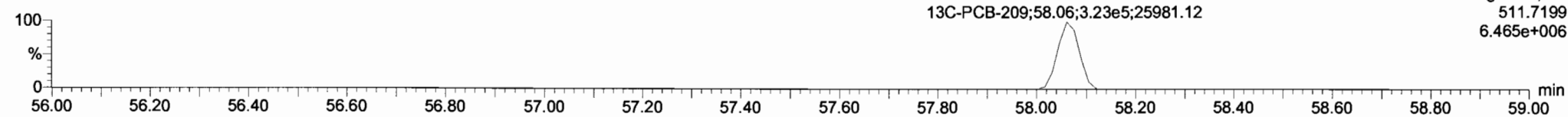
**13C-PCB-209**

190628K2\_7



F5:Voltage SIR,EI+  
509.7229  
7.665e+006

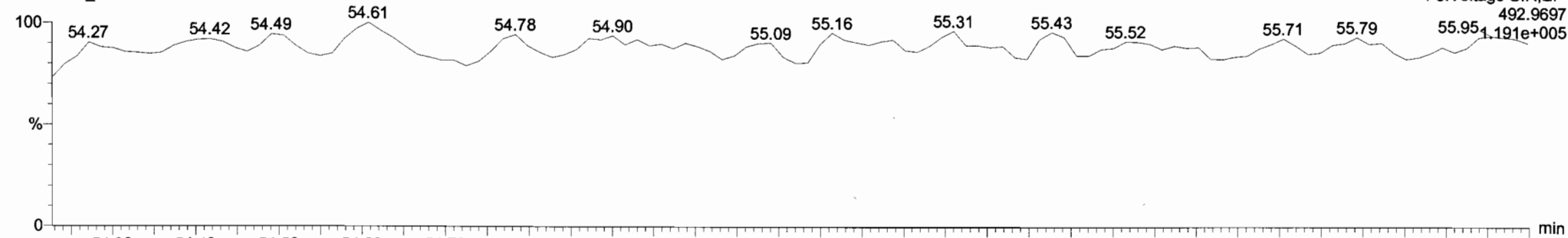
190628K2\_7



F5:Voltage SIR,EI+  
511.7199  
6.465e+006

**PFK5**

190628K2\_7



F5:Voltage SIR,EI+  
492.9697  
1.191e+005