



December 23, 2019

**Vista Work Order No. 1903741**

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 18, 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. 1903741**

**Case Narrative**

**Sample Condition on Receipt:**

Six sediment 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**

These 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 the preparation batch. No analytes were detected in the Method Blank. The OPR recoveries were within the method acceptance criteria.

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

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# Sample Inventory Report

<b>Vista Sample ID</b>	<b>Client Sample ID</b>	<b>Sampled</b>	<b>Received</b>	<b>Components/Containers</b>
1903741-01	PDI-049SC-A-14-15-191015	15-Oct-19 13:29	18-Oct-19 08:59	Amber Glass, 120 mL
1903741-02	PDI-049SC-A-15-15.5-191015	15-Oct-19 13:29	18-Oct-19 08:59	Amber Glass, 120 mL
1903741-03	PDI-052SC-A-11-12-191015	15-Oct-19 08:41	18-Oct-19 08:59	Amber Glass, 120 mL
1903741-04	PDI-052SC-A-12-13.4-191015	15-Oct-19 08:41	18-Oct-19 08:59	Amber Glass, 120 mL
1903741-05	PDI-055SC-A-11-12-191015	15-Oct-19 10:51	18-Oct-19 08:59	Amber Glass, 120 mL
1903741-06	PDI-055SC-A-12-13.1-191015	15-Oct-19 10:51	18-Oct-19 08:59	Amber Glass, 120 mL

## **ANALYTICAL RESULTS**

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B9K0011 Date Extracted: 04-Nov-2019 7:38		Lab Sample: B9K0011-BLK1 Date Analyzed: 08-Nov-19 17:29 Column: ZB-5MS				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0627			IS 13C-2,3,7,8-TCDD	103	25 - 164	
1,2,3,7,8-PeCDD	ND	0.102			13C-1,2,3,7,8-PeCDD	109	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0718			13C-1,2,3,4,7,8-HxCDD	102	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0754			13C-1,2,3,6,7,8-HxCDD	87.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0754			13C-1,2,3,7,8,9-HxCDD	92.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.0922			13C-1,2,3,4,6,7,8-HpCDD	101	23 - 140	
OCDD	ND	0.104			13C-OCDD	100	17 - 157	
2,3,7,8-TCDF	ND	0.0711			13C-2,3,7,8-TCDF	95.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0921			13C-1,2,3,7,8-PeCDF	101	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0915			13C-2,3,4,7,8-PeCDF	98.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0325			13C-1,2,3,4,7,8-HxCDF	102	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0329			13C-1,2,3,6,7,8-HxCDF	92.2	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0359			13C-2,3,4,6,7,8-HxCDF	94.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0467			13C-1,2,3,7,8,9-HxCDF	98.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.172			J	13C-1,2,3,4,6,7,8-HpCDF	97.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0566			13C-1,2,3,4,7,8,9-HpCDF	107	26 - 138	
OCDF	ND	0.122			13C-OCDF	104	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	110	35 - 197	
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>			
					TEQMinWHO2005Dioxin 0.00172			
<b>TOTALS</b>								
Total TCDD	ND	0.0627						
Total PeCDD	ND	0.102						
Total HxCDD	ND	0.0745						
Total HpCDD	ND	0.0922						
Total TCDF	ND	0.0711						
Total PeCDF	ND	0.0917						
Total HxCDF	ND	0.0365						
Total HpCDF	0.172							

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	QC Batch: B9K0011	Lab Sample: B9K0011-BS1					
Sample Size: 10.0 g	Date Extracted: 04-Nov-2019 7:38	Date Analyzed: 08-Nov-19 14:17	Column: ZB-5MS				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	20.9	20.0	104	67 - 158	IS 13C-2,3,7,8-TCDD	78.4	20 - 175
1,2,3,7,8-PeCDD	87.8	100	87.8	70 - 142	13C-1,2,3,7,8-PeCDD	91.9	21 - 227
1,2,3,4,7,8-HxCDD	95.5	100	95.5	70 - 164	13C-1,2,3,4,7,8-HxCDD	97.0	21 - 193
1,2,3,6,7,8-HxCDD	99.5	100	99.5	76 - 134	13C-1,2,3,6,7,8-HxCDD	83.6	25 - 163
1,2,3,7,8,9-HxCDD	95.5	100	95.5	64 - 162	13C-1,2,3,7,8,9-HxCDD	90.7	21 - 193
1,2,3,4,6,7,8-HpCDD	96.2	100	96.2	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	100	26 - 166
OCDD	199	200	99.7	78 - 144	13C-OCDD	100	13 - 199
2,3,7,8-TCDF	17.3	20.0	86.6	75 - 158	13C-2,3,7,8-TCDF	75.3	22 - 152
1,2,3,7,8-PeCDF	92.5	100	92.5	80 - 134	13C-1,2,3,7,8-PeCDF	88.2	21 - 192
2,3,4,7,8-PeCDF	92.6	100	92.6	68 - 160	13C-2,3,4,7,8-PeCDF	79.8	13 - 328
1,2,3,4,7,8-HxCDF	94.2	100	94.2	72 - 134	13C-1,2,3,4,7,8-HxCDF	93.0	19 - 202
1,2,3,6,7,8-HxCDF	94.4	100	94.4	84 - 130	13C-1,2,3,6,7,8-HxCDF	84.1	21 - 159
2,3,4,6,7,8-HxCDF	98.0	100	98.0	70 - 156	13C-2,3,4,6,7,8-HxCDF	84.1	22 - 176
1,2,3,7,8,9-HxCDF	94.9	100	94.9	78 - 130	13C-1,2,3,7,8,9-HxCDF	91.9	17 - 205
1,2,3,4,6,7,8-HpCDF	93.4	100	93.4	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	90.6	21 - 158
1,2,3,4,7,8,9-HpCDF	90.0	100	90.0	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	102	20 - 186
OCDF	188	200	93.9	63 - 170	13C-OCDF	102	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	87.8	31 - 191

LCL-UCL - Lower control limit - upper control limit

**Sample ID: PDI-049SC-A-14-15-191015** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903741-01      Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 14.3 g	QC Batch: B9K0011      Date Extracted: 04-Nov-2019 7:38
Date Collected: 15-Oct-2019 13:29	% Solids: 71.0	Date Analyzed : 18-Dec-19 23:11      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.338			IS 13C-2,3,7,8-TCDD	55.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.237			13C-1,2,3,7,8-PeCDD	72.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.188			13C-1,2,3,4,7,8-HxCDD	72.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.191			13C-1,2,3,6,7,8-HxCDD	85.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.223			13C-1,2,3,7,8,9-HxCDD	93.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.348			13C-1,2,3,4,6,7,8-HpCDD	87.0	23 - 140	
OCDD	ND		2.26		13C-OCDD	87.3	17 - 157	
2,3,7,8-TCDF	ND	0.175			13C-2,3,7,8-TCDF	46.5	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0844			13C-1,2,3,7,8-PeCDF	58.9	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0857			13C-2,3,4,7,8-PeCDF	55.6	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0749			13C-1,2,3,4,7,8-HxCDF	82.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0782			13C-1,2,3,6,7,8-HxCDF	85.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0740			13C-2,3,4,6,7,8-HxCDF	87.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.112			13C-1,2,3,7,8,9-HxCDF	91.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.101			13C-1,2,3,4,6,7,8-HpCDF	89.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.132			13C-1,2,3,4,7,8,9-HpCDF	87.2	26 - 138	
OCDF	ND	0.225			13C-OCDF	97.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	60.1	35 - 197	

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

TEQMinWHO2005Dioxin      0.00

<b>TOTALS</b>								
Total TCDD	ND	0.338						
Total PeCDD	ND	0.237						
Total HxCDD	ND		0.220					
Total HpCDD	ND		0.318					
Total TCDF	ND	0.175						
Total PeCDF	ND	0.0857						
Total HxCDF	ND	0.112						
Total HpCDF	0.0496							B

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-049SC-A-15-15.5-191015** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903741-02      Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 13.6 g	QC Batch: B9K0011      Date Extracted: 04-Nov-2019 7:38
Date Collected: 15-Oct-2019 13:29	% Solids: 73.9	Date Analyzed: 18-Dec-19 23:59      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.158			IS 13C-2,3,7,8-TCDD	88.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.123			13C-1,2,3,7,8-PeCDD	91.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.196			13C-1,2,3,4,7,8-HxCDD	79.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.180			13C-1,2,3,6,7,8-HxCDD	92.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.220			13C-1,2,3,7,8,9-HxCDD	88.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.959			J	13C-1,2,3,4,6,7,8-HpCDD	78.0	23 - 140	
OCDD	8.92				13C-OCDD	72.0	17 - 157	
2,3,7,8-TCDF	ND	0.0755			13C-2,3,7,8-TCDF	84.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0622			13C-1,2,3,7,8-PeCDF	77.1	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0130		13C-2,3,4,7,8-PeCDF	76.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0512			13C-1,2,3,4,7,8-HxCDF	84.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0549			13C-1,2,3,6,7,8-HxCDF	86.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0606			13C-2,3,4,6,7,8-HxCDF	84.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0740			13C-1,2,3,7,8,9-HxCDF	94.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.112			J, B	13C-1,2,3,4,6,7,8-HpCDF	89.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.123			13C-1,2,3,4,7,8,9-HpCDF	81.2	26 - 138	
OCDF	ND	0.161			13C-OCDF	82.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	85.3	35 - 197	

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

TEQMinWHO2005Dioxin      0.0134

<b>TOTALS</b>								
Total TCDD	ND		0.0660					
Total PeCDD	0.123		0.212					
Total HxCDD	ND		0.561					
Total HpCDD	2.55							
Total TCDF	ND	0.0755						
Total PeCDF	ND		0.0130					
Total HxCDF	ND	0.0740						
Total HpCDF	0.243			B				

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-052SC-A-11-12-191015** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903741-03      Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 15.0 g	QC Batch: B9K0011      Date Extracted: 04-Nov-2019 7:38
Date Collected: 15-Oct-2019 8:41	% Solids: 67.4	Date Analyzed: 19-Dec-19 00:47      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.138			IS 13C-2,3,7,8-TCDD	96.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.131			13C-1,2,3,7,8-PeCDD	99.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.175			13C-1,2,3,4,7,8-HxCDD	78.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.171			13C-1,2,3,6,7,8-HxCDD	93.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.204			13C-1,2,3,7,8,9-HxCDD	93.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND		0.742		13C-1,2,3,4,6,7,8-HpCDD	88.1	23 - 140	
OCDD	8.07				13C-OCDD	82.0	17 - 157	
2,3,7,8-TCDF	ND	0.0774			13C-2,3,7,8-TCDF	81.2	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0523			13C-1,2,3,7,8-PeCDF	87.2	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0541			13C-2,3,4,7,8-PeCDF	91.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0355			13C-1,2,3,4,7,8-HxCDF	94.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND		0.00900		13C-1,2,3,6,7,8-HxCDF	97.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0442			13C-2,3,4,6,7,8-HxCDF	90.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0655			13C-1,2,3,7,8,9-HxCDF	92.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0432			13C-1,2,3,4,6,7,8-HpCDF	88.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0590			13C-1,2,3,4,7,8,9-HpCDF	82.9	26 - 138	
OCDF	ND	0.112			13C-OCDF	85.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	93.5	35 - 197	

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

TEQMinWHO2005Dioxin      0.00242

<b>TOTALS</b>			
Total TCDD	ND		0.334
Total PeCDD	ND		0.228
Total HxCDD	1.35		
Total HpCDD	ND		2.09
Total TCDF	ND		0.104
Total PeCDF	ND	0.0541	
Total HxCDF	ND		0.00900
Total HpCDF	ND	0.0590	

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-052SC-A-12-13.4-191015** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903741-04      Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 14.0 g	QC Batch: B9K0011      Date Extracted: 04-Nov-2019 7:38
Date Collected: 15-Oct-2019 8:41	% Solids: 72.7	Date Analyzed: 19-Dec-19 01:37      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.206			IS 13C-2,3,7,8-TCDD	86.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.171			13C-1,2,3,7,8-PeCDD	83.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.256			13C-1,2,3,4,7,8-HxCDD	73.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.233			13C-1,2,3,6,7,8-HxCDD	85.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.281			13C-1,2,3,7,8,9-HxCDD	81.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND		0.509		13C-1,2,3,4,6,7,8-HpCDD	76.6	23 - 140	
OCDD	3.64			J	13C-OCDD	79.8	17 - 157	
2,3,7,8-TCDF	ND	0.0879			13C-2,3,7,8-TCDF	80.5	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0784			13C-1,2,3,7,8-PeCDF	73.2	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0840			13C-2,3,4,7,8-PeCDF	70.8	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0519			13C-1,2,3,4,7,8-HxCDF	86.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND		0.00500		13C-1,2,3,6,7,8-HxCDF	87.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND		0.00700		13C-2,3,4,6,7,8-HxCDF	82.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0883			13C-1,2,3,7,8,9-HxCDF	94.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.00500		13C-1,2,3,4,6,7,8-HpCDF	91.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0755			13C-1,2,3,4,7,8,9-HpCDF	80.9	26 - 138	
OCDF	ND	0.241			13C-OCDF	85.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	92.3	35 - 197	

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

TEQMinWHO2005Dioxin      0.00109

<b>TOTALS</b>			
Total TCDD	ND		0.430
Total PeCDD	0.163		
Total HxCDD	ND		0.596
Total HpCDD	1.06		1.57
Total TCDF	ND		0.0620
Total PeCDF	ND	0.0840	
Total HxCDF	0.00644		0.0240
Total HpCDF	ND		0.00500

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-055SC-A-11-12-191015** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903741-05      Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 14.3 g	QC Batch: B9K0011      Date Extracted: 04-Nov-2019 7:38
Date Collected: 15-Oct-2019 10:51	% Solids: 69.8	Date Analyzed : 19-Dec-19 02:25      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.199			IS 13C-2,3,7,8-TCDD	86.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.197			13C-1,2,3,7,8-PeCDD	86.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.212			13C-1,2,3,4,7,8-HxCDD	73.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.184			13C-1,2,3,6,7,8-HxCDD	84.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.239			13C-1,2,3,7,8,9-HxCDD	78.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.309			13C-1,2,3,4,6,7,8-HpCDD	89.5	23 - 140	
OCDD	1.73			J	13C-OCDD	70.7	17 - 157	
2,3,7,8-TCDF	ND	0.106			13C-2,3,7,8-TCDF	91.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0760			13C-1,2,3,7,8-PeCDF	76.9	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0616			13C-2,3,4,7,8-PeCDF	101	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0493			13C-1,2,3,4,7,8-HxCDF	84.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0534			13C-1,2,3,6,7,8-HxCDF	84.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0524			13C-2,3,4,6,7,8-HxCDF	87.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0150		13C-1,2,3,7,8,9-HxCDF	90.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0821			13C-1,2,3,4,6,7,8-HpCDF	86.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0927			13C-1,2,3,4,7,8,9-HpCDF	87.7	26 - 138	
OCDF	ND	0.273			13C-OCDF	79.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	87.5	35 - 197	

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

TEQMinWHO2005Dioxin      0.000519

<b>TOTALS</b>			
Total TCDD	ND		0.159
Total PeCDD	ND	0.197	
Total HxCDD	0.161		0.254
Total HpCDD	0.490		
Total TCDF	ND	0.106	
Total PeCDF	ND	0.0760	
Total HxCDF	ND		0.0220
Total HpCDF	ND	0.0927	

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-055SC-A-12-13.1-191015** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903741-06      Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 13.9 g	QC Batch: B9K0011      Date Extracted: 04-Nov-2019 7:38
Date Collected: 15-Oct-2019 10:51	% Solids: 73.0	Date Analyzed: 19-Dec-19 03:12      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.130			IS 13C-2,3,7,8-TCDD	93.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.105			13C-1,2,3,7,8-PeCDD	101	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.165			13C-1,2,3,4,7,8-HxCDD	75.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.151			13C-1,2,3,6,7,8-HxCDD	89.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.176			13C-1,2,3,7,8,9-HxCDD	88.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.226			J	13C-1,2,3,4,6,7,8-HpCDD	77.4	23 - 140	
OCDD	ND		1.81		13C-OCDD	75.4	17 - 157	
2,3,7,8-TCDF	ND	0.0663			13C-2,3,7,8-TCDF	83.2	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0415			13C-1,2,3,7,8-PeCDF	89.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0397			13C-2,3,4,7,8-PeCDF	88.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0362			13C-1,2,3,4,7,8-HxCDF	86.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0370			13C-1,2,3,6,7,8-HxCDF	90.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0404			13C-2,3,4,6,7,8-HxCDF	87.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0108		13C-1,2,3,7,8,9-HxCDF	92.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0407			13C-1,2,3,4,6,7,8-HpCDF	88.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0607			13C-1,2,3,4,7,8,9-HpCDF	77.1	26 - 138	
OCDF	ND	0.148			13C-OCDF	81.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	89.8	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.00226

<b>TOTALS</b>								
Total TCDD	ND	0.130						
Total PeCDD	ND	0.105						
Total HxCDD	0.263							
Total HpCDD	0.699							
Total TCDF	ND	0.0663						
Total PeCDF	ND		0.0130					
Total HxCDF	ND		0.0108					
Total HpCDF	0.0171			B				

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.

## 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**



190374) 3.6°C, 1.4°C

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

**Project:** Gasco PDI  
**Client:** NW Natural

**COC ID:** VISTA-20191015-152359  
**Sample Custodian:** CO  
**Lab:** VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-049SC-A-14-15-191015	N	SE	10/15/2019	13:29	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
002	PDI-049SC-A-15-15.5-191015	N	SE	10/15/2019	13:29	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
003	PDI-052SC-A-11-12-191015	N	SE	10/15/2019	8:41	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
004	PDI-052SC-A-12-13.4-191015	N	SE	10/15/2019	8:41	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
005	PDI-055SC-A-11-12-191015	N	SE	10/15/2019	10:51	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
006	PDI-055SC-A-12-13.1-191015	N	SE	10/15/2019	10:51	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. O'BRIEN	Print Name: Ashley Mason	Print Name:	Print Name:	Print Name:	Print Name:
Company: AQ	Company: VAL	Company:	Company:	Company:	Company:
Date/Time: 10/17/19 1355	Date/Time: 10/18/19 0859	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 #: 1903741 TAT std

<b>Samples Arrival:</b>	<b>Date/Time</b> 10/18/19 0859	<b>Initials:</b> WWS	<b>Location:</b> WR-2
			<b>Shelf/Rack:</b> N/A
<b>Delivered By:</b>	<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
<b>Preservation:</b>	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None		
<b>Temp °C:</b> 3.6 (uncorrected)	<b>Probe used:</b> Y / <input checked="" type="checkbox"/> N		<b>Thermometer ID:</b> IR-3
<b>Temp °C:</b> 3.6 (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Airbill <u>1 of 2</u> Trk # <u>7767 5105 6110</u>	✓		
Shipping Documentation Present?	✓		
Shipping Container	Vista	<input checked="" type="checkbox"/> Client	Retain
			<input checked="" type="checkbox"/> Return
			Dispose
Chain of Custody / Sample Documentation Present?		✓	✓
Chain of Custody / Sample Documentation Complete?		✓	✓
Holding Time Acceptable?	✓		

<b>Logged In:</b>	<b>Date/Time</b> 10/21/19 1507	<b>Initials:</b> ajm	<b>Location:</b> WR-2
			<b>Shelf/Rack:</b> 2-1
COC Anomaly/Sample Acceptance Form completed?			✓
			✓

Comments:

# Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 1903741

TAT 28 days

<b>Samples Arrival:</b>	<b>Date/Time:</b> 10/18/19 0859	<b>Initials:</b> ajm	<b>Location:</b> WP-2				
			<b>Shelf/Rack:</b> N/A				
<b>Delivered By:</b>	<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
<b>Preservation:</b>	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Dry Ice		<input type="checkbox"/> None	
<b>Temp °C:</b> 1.4 (uncorrected)	<b>Probe used:</b> Y / N			<b>Thermometer ID:</b> IR-3			
<b>Temp °C:</b> 1.4 (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>2 of 2</u> Trk # <u>7767 5105 6371</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 checked="" type="checkbox"/> Vista	<input type="checkbox"/> Client	<input checked="" type="checkbox"/> Retain	<input 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"/>		
<b>Logged In:</b>	<b>Date/Time:</b> 10/21/19 1507	<b>Initials:</b> ajm	<b>Location:</b> WP-2		
			<b>Shelf/Rack:</b> A-1		
COC Anomaly/Sample Acceptance Form completed?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Comments:

# CoC/Label Reconciliation Report WO# 1903741

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	BaseMatrix	Sample Comments
1903741-01	A PDI-049SC-A-14-15-191015	<input checked="" type="checkbox"/>	A	001	15-Oct-19 13:29	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903741-02	A PDI-049SC-A-15-15.5-191015	<input checked="" type="checkbox"/>	A	002	15-Oct-19 13:29	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903741-03	A PDI-052SC-A-11-12-191015	<input checked="" type="checkbox"/>	B	003	15-Oct-19 08:41	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903741-04	A PDI-052SC-A-12-13.4-191015	<input checked="" type="checkbox"/>	B	004	15-Oct-19 08:41	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903741-05	A PDI-055SC-A-11-12-191015	<input checked="" type="checkbox"/>	B	005	15-Oct-19 10:51	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903741-06	A PDI-055SC-A-12-13.1-191015	<input checked="" type="checkbox"/>	B	006	15-Oct-19 10:51	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	

	Yes	No	NA
Sample Container Intact?	<input checked="" type="checkbox"/>		
Sample Custody Seals Intact?			<input checked="" type="checkbox"/>
Adequate Sample Volume?	<input checked="" type="checkbox"/>		
Preservation Documented: Na2S2O3 Trizma <u>None</u> Other			<input checked="" type="checkbox"/>
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			<input checked="" type="checkbox"/>

Comments:

A - cooler #1

B - cooler #2

Verified by/Date: SC 10/22/19

## **EXTRACTION INFORMATION**

Process Sheet

Workorder: 1903741

Prep Expiration: 2020-10-14  
Client: Anchor QEA, LLC

8-Nov-19  
Workorder Due: 15-Nov-19 00:00

TAT: 25 21 @ 10/22/19

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

Prep Batch: B9K001

Prep Data Entered: [Signature] 11/06/19  
Date and Initials

Initial Sequence: 59L0047

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1903741-01	A <input checked="" type="checkbox"/>	PDI-049SC-A-14-15-191015	18-Oct-19 08:59	WR-2 A-1	
1903741-02	A <input checked="" type="checkbox"/>	PDI-049SC-A-15-15.5-191015	18-Oct-19 08:59	WR-2 A-1	
1903741-03	A <input checked="" type="checkbox"/>	PDI-052SC-A-11-12-191015	18-Oct-19 08:59	WR-2 A-1	
1903741-04	A <input checked="" type="checkbox"/>	PDI-052SC-A-12-13.4-191015	18-Oct-19 08:59	WR-2 A-1	
1903741-05	A <input checked="" type="checkbox"/>	PDI-055SC-A-11-12-191015	18-Oct-19 08:59	WR-2 A-1	
1903741-06	A <input checked="" type="checkbox"/>	PDI-055SC-A-12-13.1-191015	18-Oct-19 08:59	WR-2 A-1	

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

Pre-Prep Check Out: TL 10/31/19  
Pre-Prep Check In: TL 10/31/19

Prep Check Out: AO 11/04/19  
Prep Check In: AO 11/04/19

Prep Reconciled Initials/Date: TL 10/31/19  
Spike Reconciled Initials/Date: AO 11/04/19  
VialBoxID: 6:ml:

PREPARATION BENCH SHEET

Matrix: Solid

B9K0011

Chemist: AO

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 04-Nov-19 07:38

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"/>	B9K0011-BLK1	NA	(10.00)	AO 11/04/19	AO 11/05/19	NA	AO 11/05/19	AO 11/05/19	AO 11/05/19	AO 11/06/19
<input type="checkbox"/>	B9K0011-BS1	J	(10.00)	I	I	I	I	I	I	I
<input type="checkbox"/>	1903430-06RE1	13.63	14.03	I	I	I	I	I	I	I
<input type="checkbox"/>	1903739-01	14.07	15.79	I	I	I	I	I	I	I
<input type="checkbox"/>	1903739-02	13.64	13.75	I	I	I	I	I	I	I
<input type="checkbox"/>	1903739-03	12.79	13.13	I	I	I	I	I	I	I
<input type="checkbox"/>	1903739-04	12.42	12.51	I	I	I	I	I	I	I
<input type="checkbox"/>	1903739-05	13.17	13.37	I	I	I	I	I	I	I
<input type="checkbox"/>	1903739-06	13.91	13.91	I	I	I	I	I	I	I
<input type="checkbox"/>	1903741-01	14.08	14.25	I	I	I	I	I	I	I
<input type="checkbox"/>	1903741-02	13.53	13.55	I	I	I	I	I	I	I
<input type="checkbox"/>	1903741-03	14.83	14.96	I	I	I	I	I	I	I
<input type="checkbox"/>	1903741-04	13.76	13.95	I	I	I	I	I	I	I
<input type="checkbox"/>	1903741-05	14.32	14.32	I	I	I	I	I	I	I
<input type="checkbox"/>	1903741-06	13.70	13.86	I	I	I	I	I	I	I

IS Name <u>V2</u>	NS Name <u>V5</u>	CRS Name <u>V4</u>	RS Name <u>V7</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>AO 11/04/19</u>
PCDD/F <u>19C1902, 10uL</u>	PCDD/F <u>18F1913, 10uL</u>	PCDD/F <u>19E1102, 10uL</u>	PCDD/F <u>19I1603, 10uL</u>	Start Date/Time <u>11/04/19 1330</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>AO 11/04/19</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>11/09/19 1000</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>014 20uL</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





Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9J0297

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

Inst HRMS-9

Date/Time IN: 10/31/19 11:50 Date/Time OUT: 10/31/19 14:25

Particle Size	SampID	SampType	Initial and Date: <u>TL 10/31/19</u>		TL 11/01/19		Dry Sample Weight (g)	%Solids Raw/Val	TL 10/31/19		NA		TL 10/31/19		
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Visual Inspection			Cl-	pH Before	pH After	Acid Added	Sample Homogenized*		
	1903741-01	Sample	1.29	11.23	8.35	/		Sand	/					Y	
	1903741-02	Sample	1.30	12.71	9.73		Sand								Y
	1903741-03	Sample	1.28	15.09	10.59		Mud								X
	1903741-04	Sample	1.30	16.30	12.20										Y
	1903741-05	Sample	1.29	13.15	9.57										Y
	1903741-06	Sample	1.29	14.70	11.08					Sand					Y

\*Sample homogenized in sample container unless otherwise noted.

Batch: B9K0011

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903430-06RE1	14.03 v	73.35116	10.2912	20	04-Nov-19 07:38	ACO			Sediment	1613 Full List
1903739-01	15.79 ✓	68.18462	10.7664	20	04-Nov-19 07:38	ACO			Sediment	1613 Full List
1903739-02	13.75 ✓	73.29377	10.0779	20	04-Nov-19 07:38	ACO			Sediment	1613 Full List
1903739-03	13.13 ✓	78.19472	10.2670	20	04-Nov-19 07:38	ACO			Sediment	1613 Full List
1903739-04	12.51 ✓	80.54768	10.0765	20	04-Nov-19 07:38	ACO			Sediment	1613 Full List
1903739-05	13.37 ✓	75.92	10.1505	20	04-Nov-19 07:38	ACO			Sediment	1613 Full List
1903739-06	13.91 ✓	71.90605	10.0021	20	04-Nov-19 07:38	ACO			Sediment	1613 Full List
1903741-01	14.25 ✓	71.02616	10.1212	20	04-Nov-19 07:38	ACO			Sediment	1613 Full List
1903741-02	13.55 ✓	73.88255	10.0111	20	04-Nov-19 07:38	ACO			Sediment	1613 Full List
1903741-03	14.96 ✓	67.41492	10.0853	20	04-Nov-19 07:38	ACO			Sediment	1613 Full List
1903741-04	13.95 ✓	72.66667	10.1370	20	04-Nov-19 07:38	ACO			Sediment	1613 Full List
1903741-05	14.32 ✓	69.8145	9.9974	20	04-Nov-19 07:38	ACO			Sediment	1613 Full List
1903741-06	13.86 ✓	73.00522	10.1185	20	04-Nov-19 07:38	ACO			Sediment	1613 Full List
B9K0011-BLK1	10 ✓			20	04-Nov-19 07:38	ACO				QC
B9K0011-BS1	10 ✓			20	04-Nov-19 07:38	ACO	18F1913 ✓	10 ✓		QC

11/06/19 

All bolded data on report verified against written benchsheet by (initial/date)

SAMPLE DATA – EPA METHOD 1613



Totals class: HpCDF EMPC

Entry #: 35

Run: 12

File: 191108D1

S: 8 I: 1 F: 4

Acquired: 8-NOV-19 17:29:33

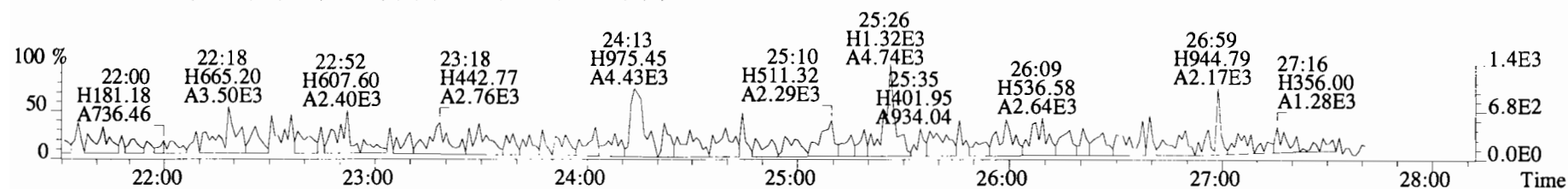
Processed: 11-NOV-19 10:37:15

Total Concentration: 0.17219

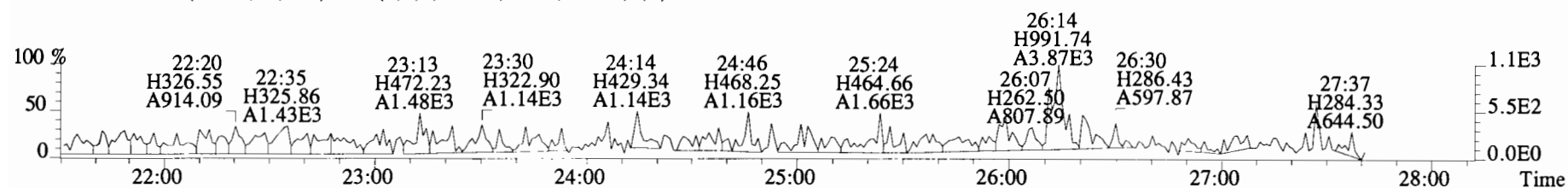
Unnamed Concentration: \*

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name	
36:40	2.837e+03	2.523e+03	1.12	y	5.359e+03	0.17219	1,2,3,4,6,7,8-HpCDF

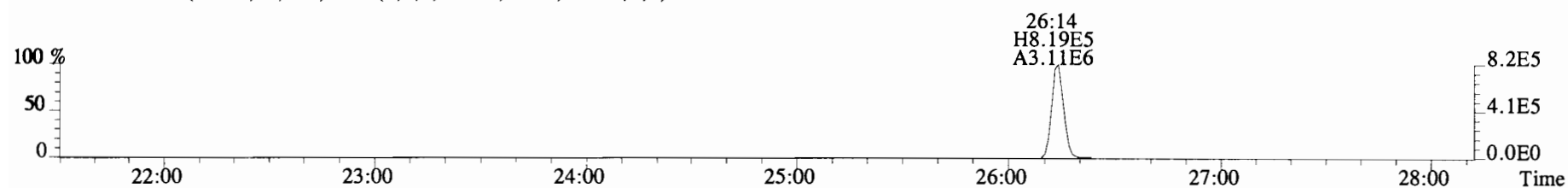
File:191108D1 #1-493 Acq: 8-NOV-2019 17:29:33 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#8 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BLK1 Method Blank 10 Exp:OCDD\_DB5  
 319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



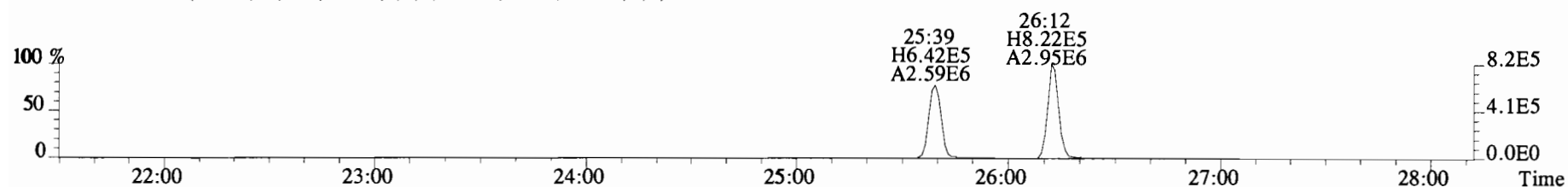
321.8936 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



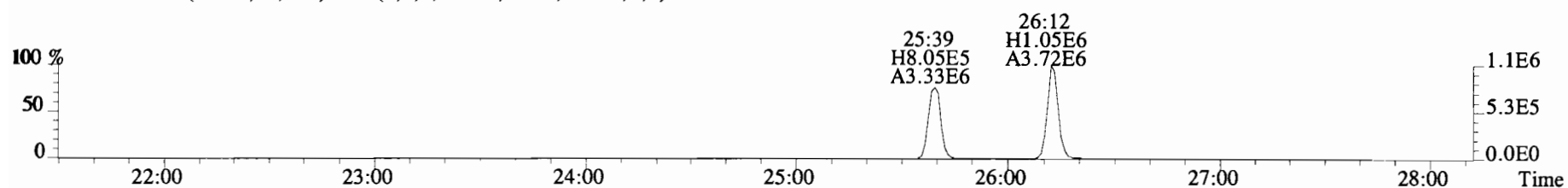
327.8847 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



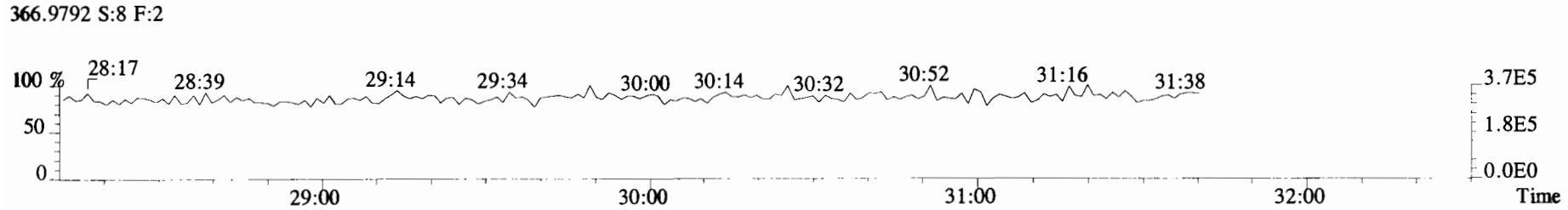
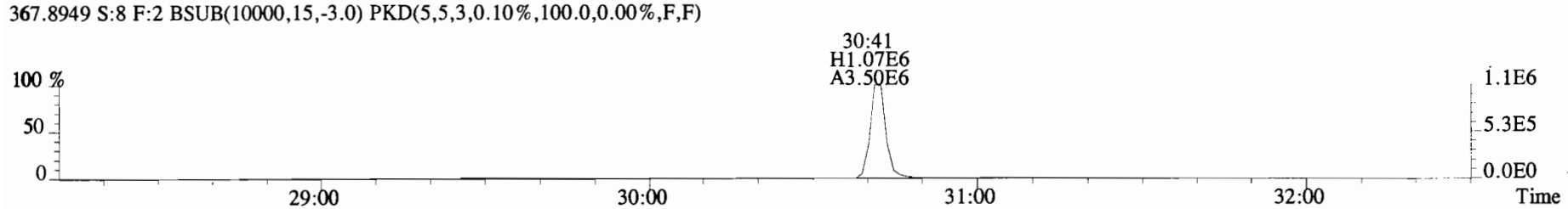
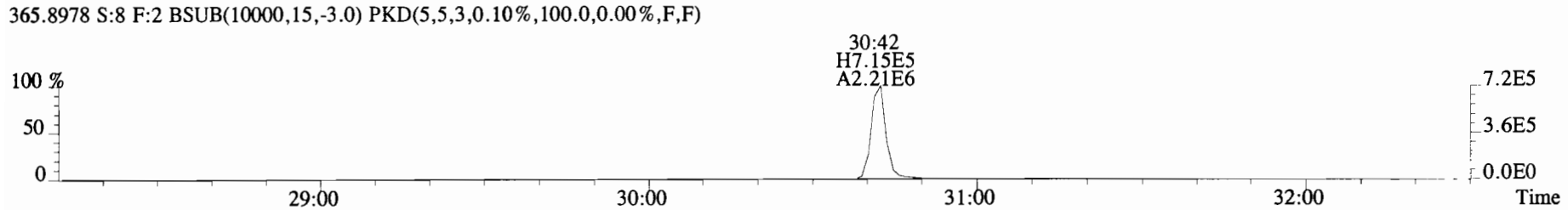
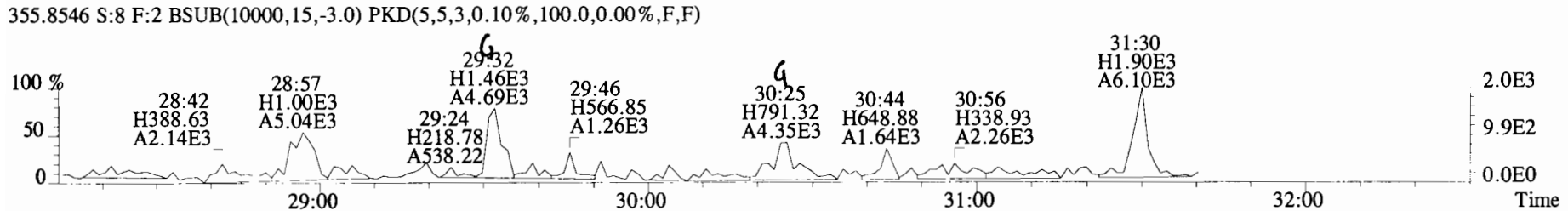
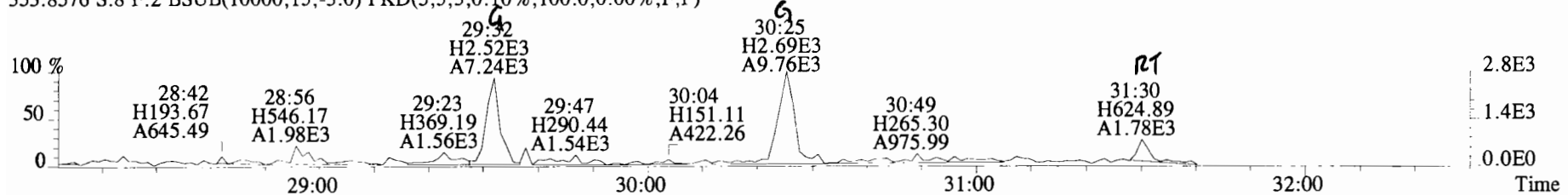
331.9368 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



333.9339 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

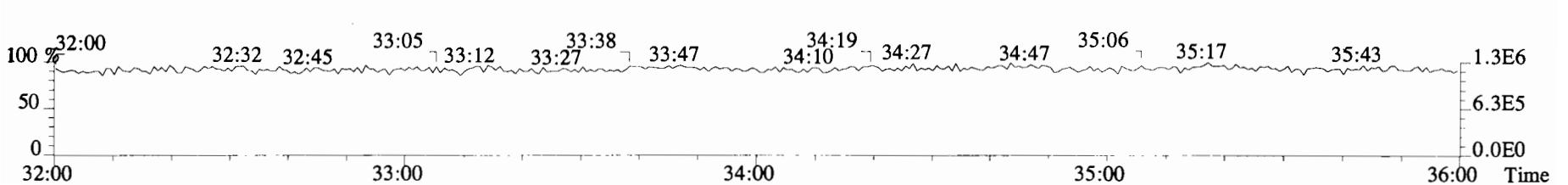
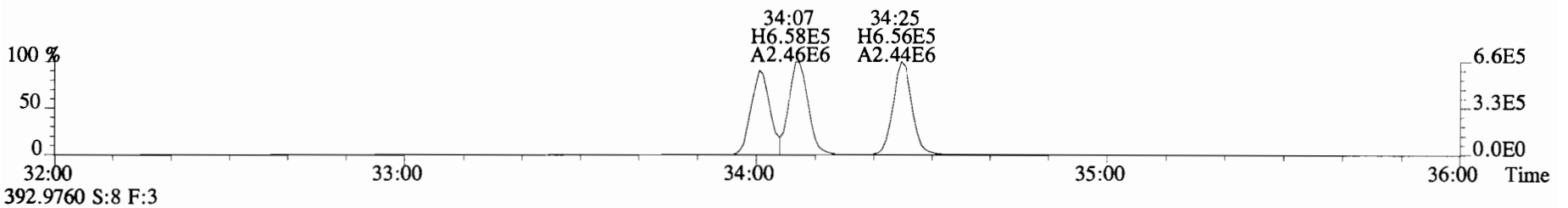
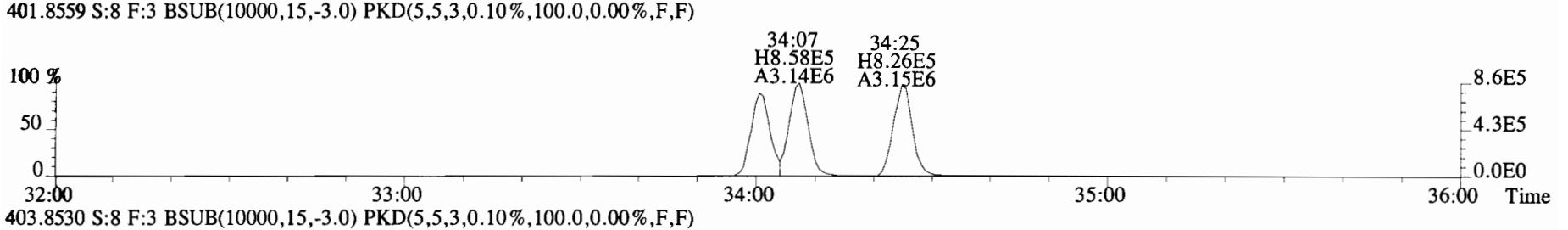
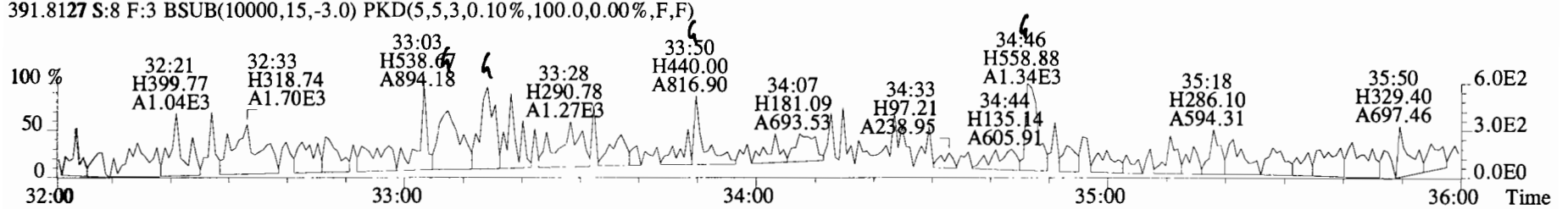
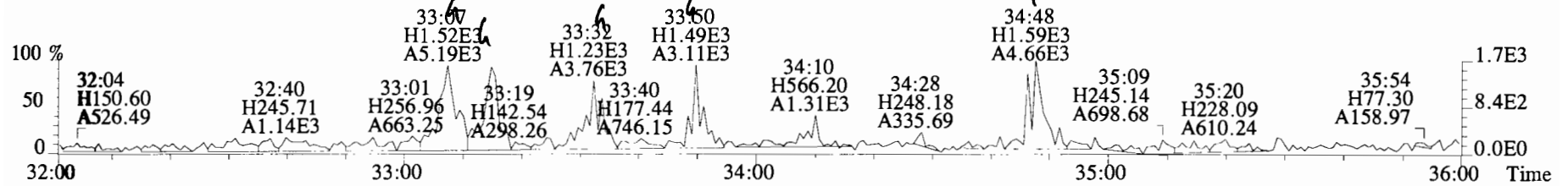


File:191108D1 #1-210 Acq: 8-NOV-2019 17:29:33 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#8 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BLK1 Method Blank 10 Exp:OCDD\_DB5  
 353.8576 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

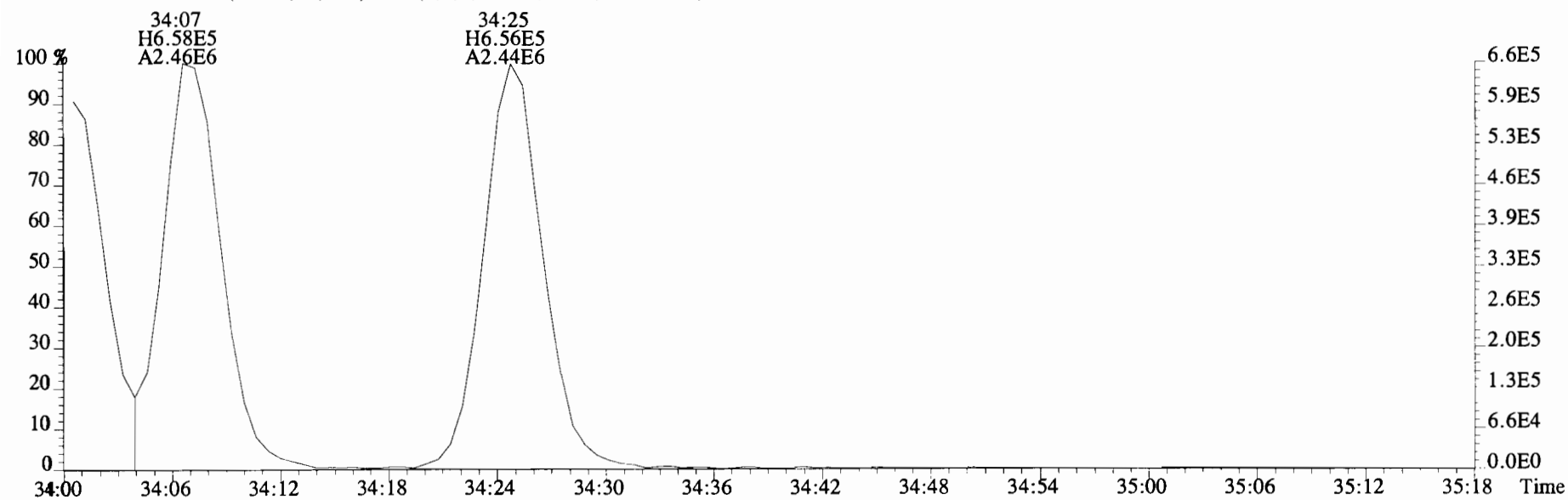
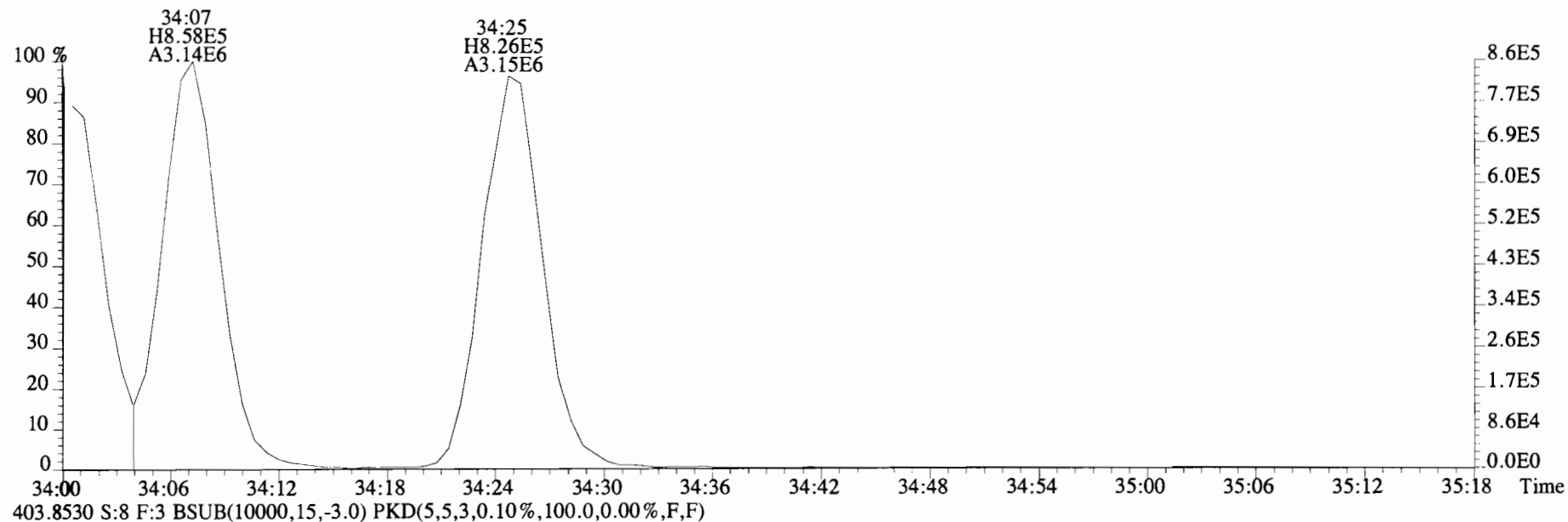




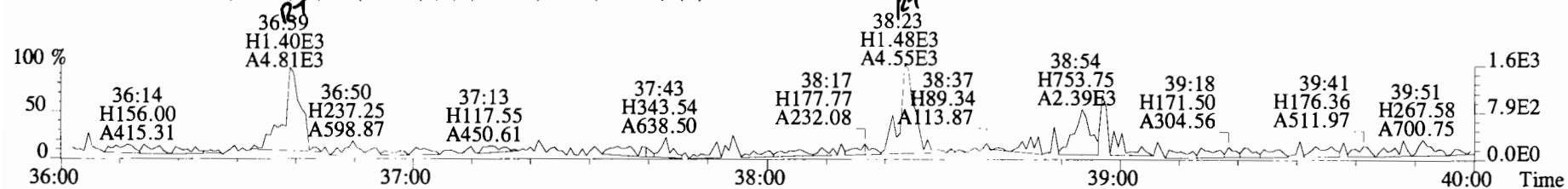
File:191108D1 #1-385 Acq: 8-NOV-2019 17:29:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BLK1 Method Blank 10 Exp:OCDD\_DB5  
389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



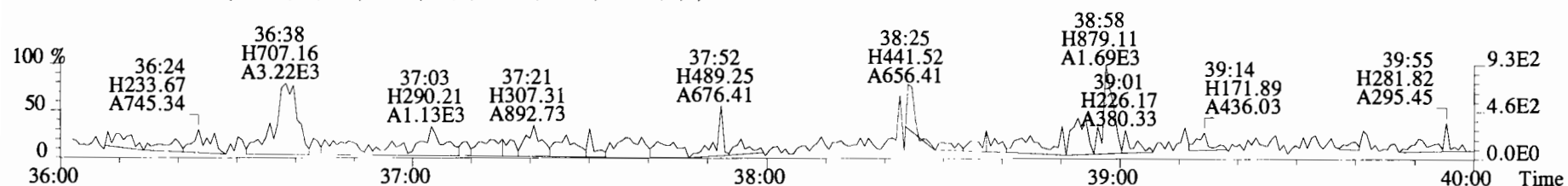
File:191108D1 #1-385 Acq: 8-NOV-2019 17:29:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Viata Analytical\_Laboratory\_VG7 Text:B9K0011-BLK1 Method Blank 10 Exp:OCDD\_DB5  
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



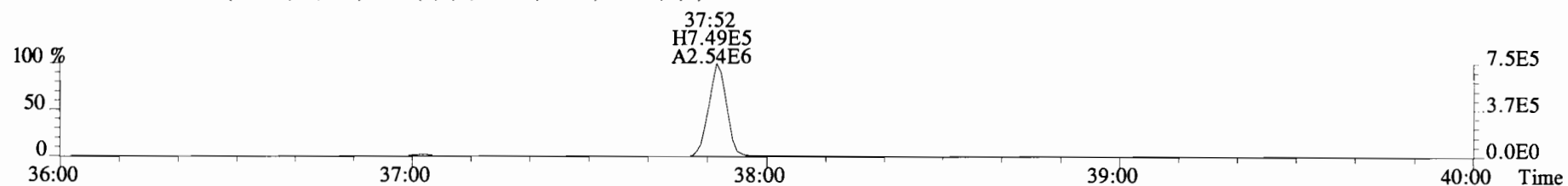
File:191108D1 #1-355 Acq: 8-NOV-2019 17:29:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Viata Analytical\_Laboratory\_VG7 Text:B9K0011-BLK1 Method Blank 10 Exp:OCDD\_DB5  
423.7767 S:8 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



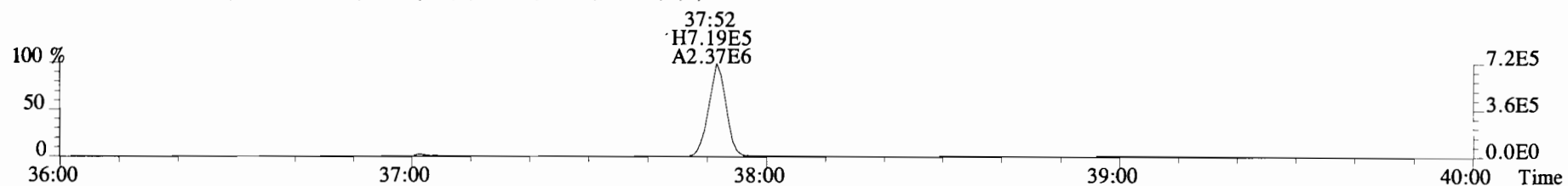
425.7737 S:8 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



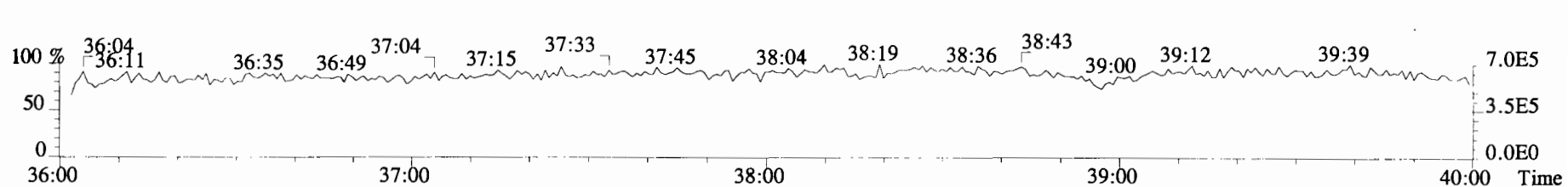
435.8169 S:8 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



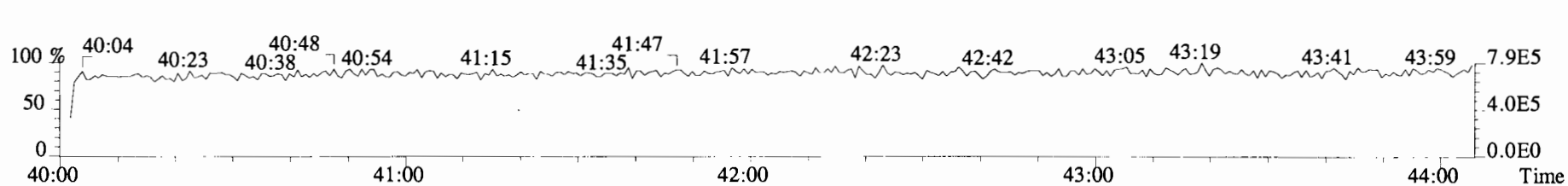
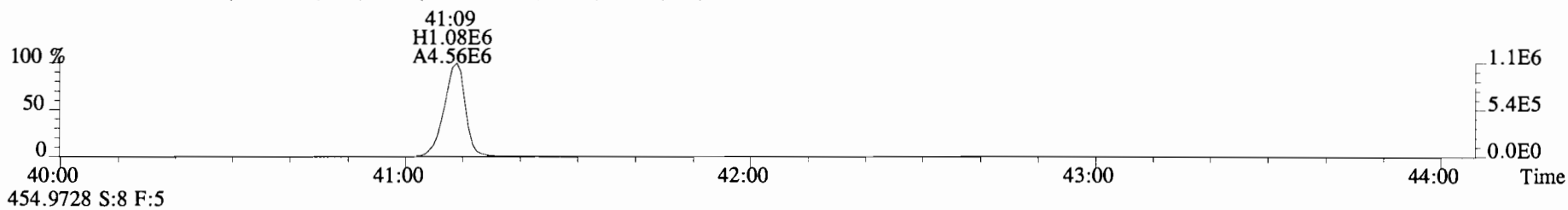
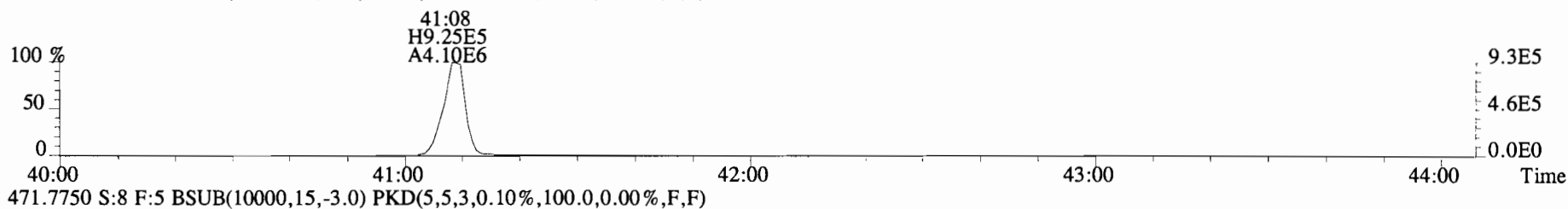
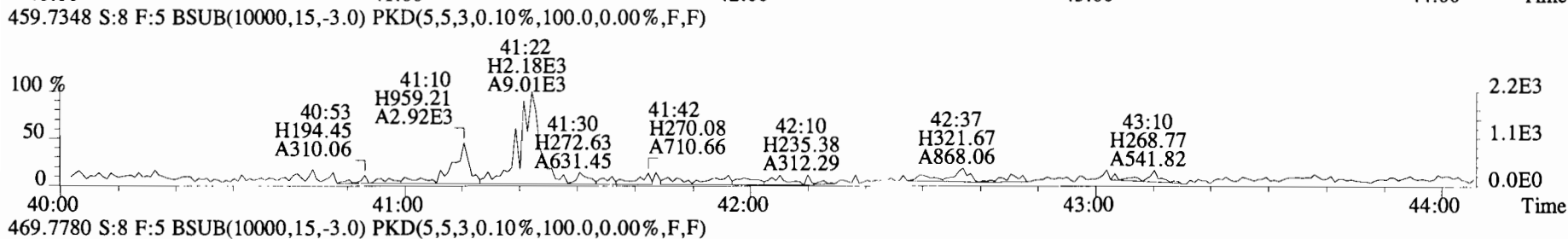
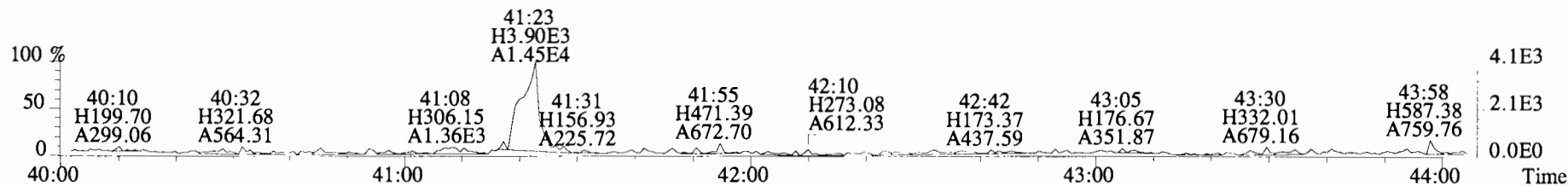
437.8140 S:8 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



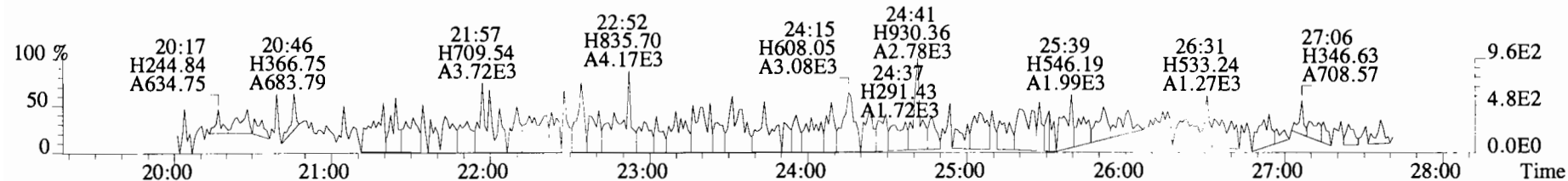
454.9728 S:8 F:4



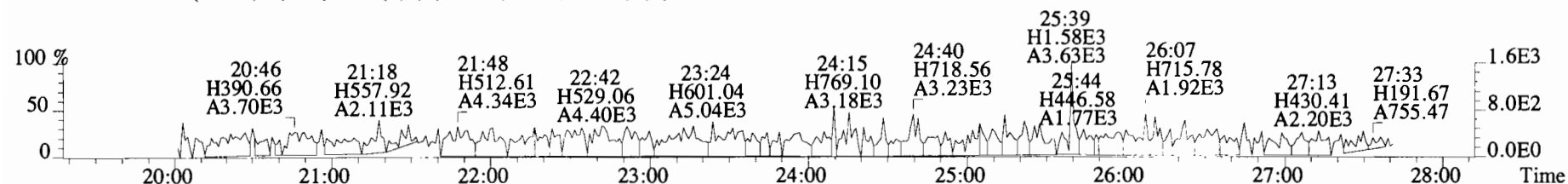
File:191108D1 #1-432 Acq: 8-NOV-2019 17:29:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BLK1 Method Blank 10 Exp:OCDD\_DB5  
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



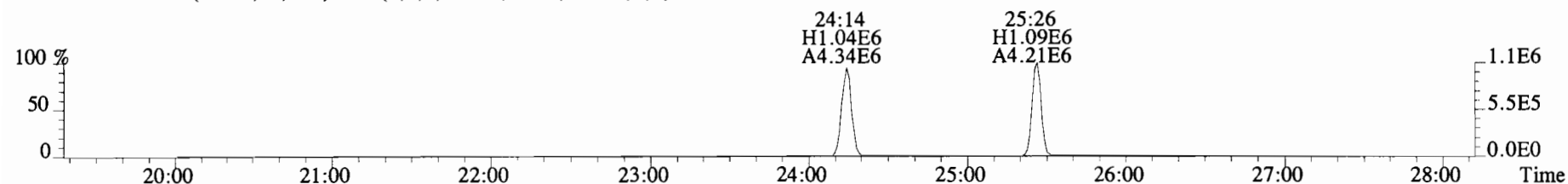
File:191108D1 #1-493 Acq: 8-NOV-2019 17:29:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BLK1 Method Blank 10 Exp:OCDD\_DB5  
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



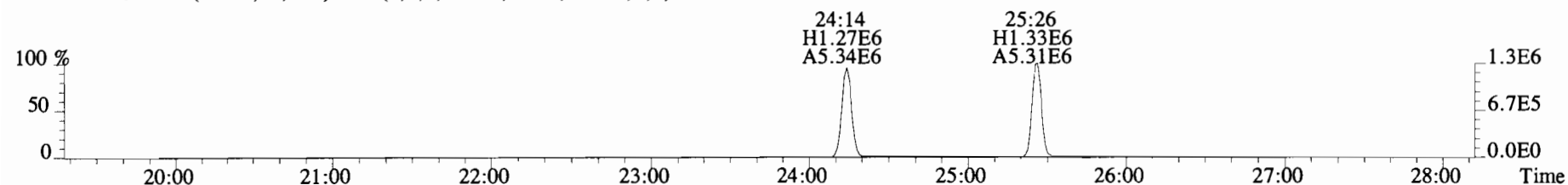
305.8987 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



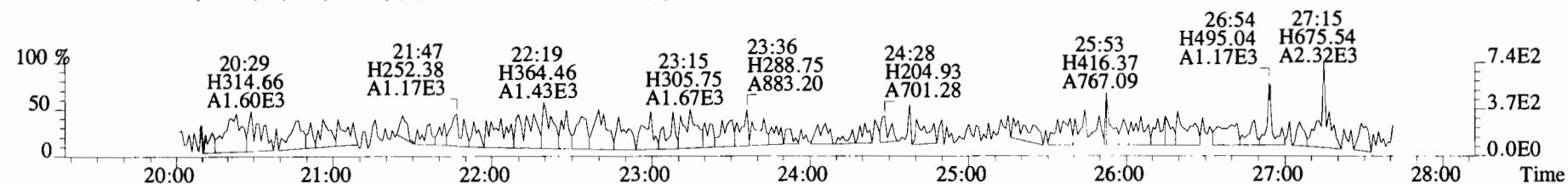
315.9419 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



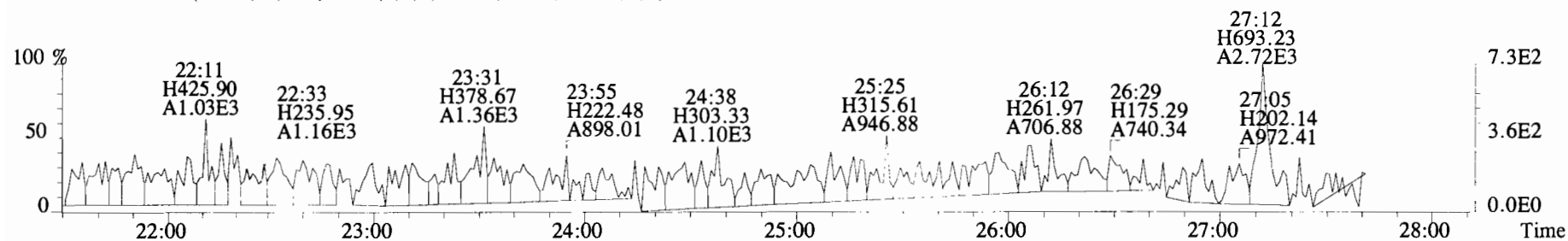
317.9389 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



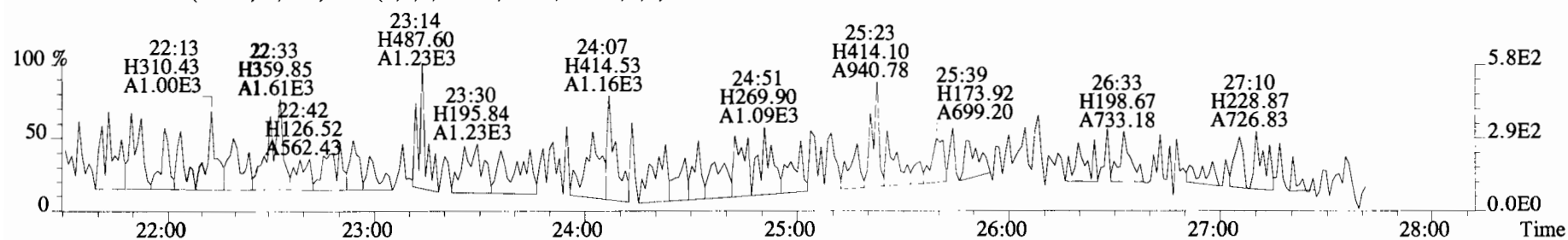
375.8364 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



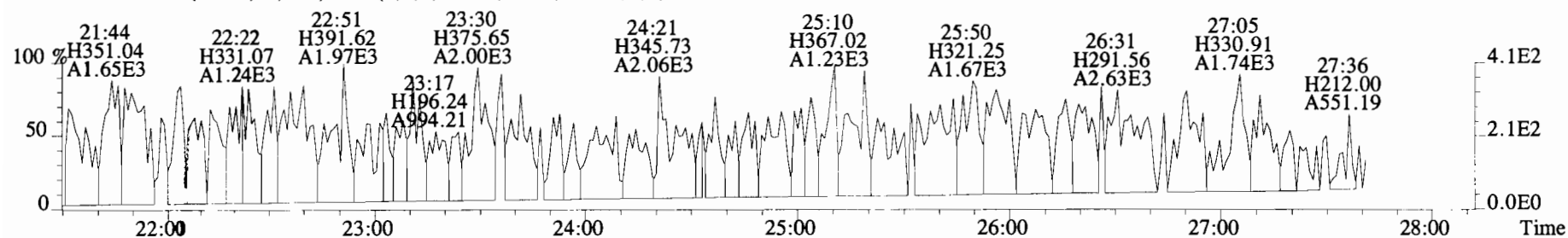
File:191108D1 #1-493 Acq: 8-NOV-2019 17:29:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Viata Analytical Laboratory VG7 Text:B9K0011-BLK1 Method Blank 10 Exp:OCDD\_DB5  
339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



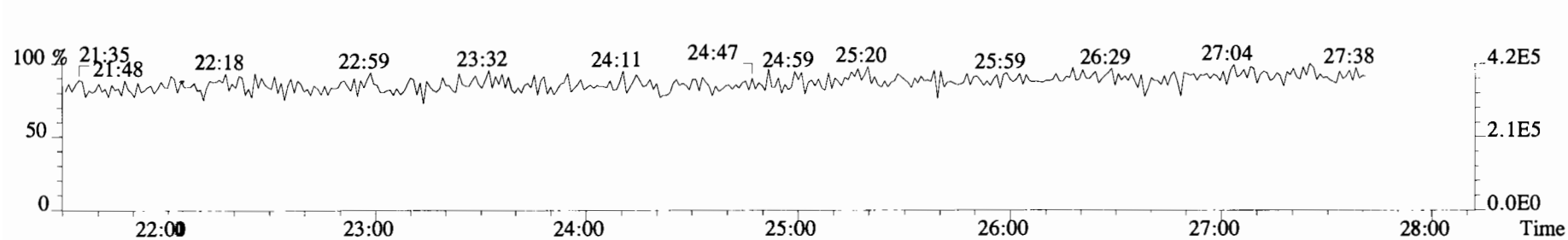
341.8568 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



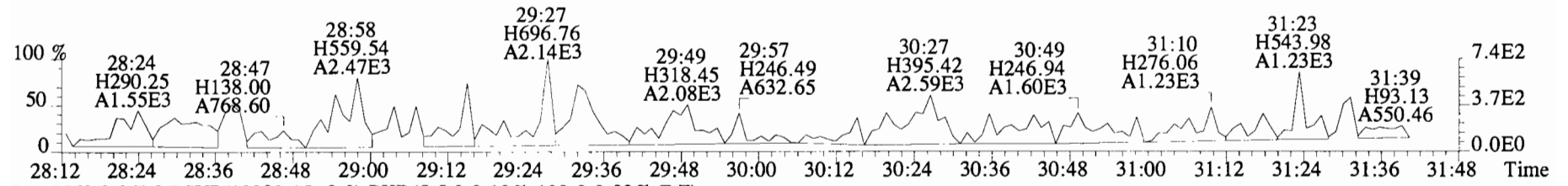
409.7974 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



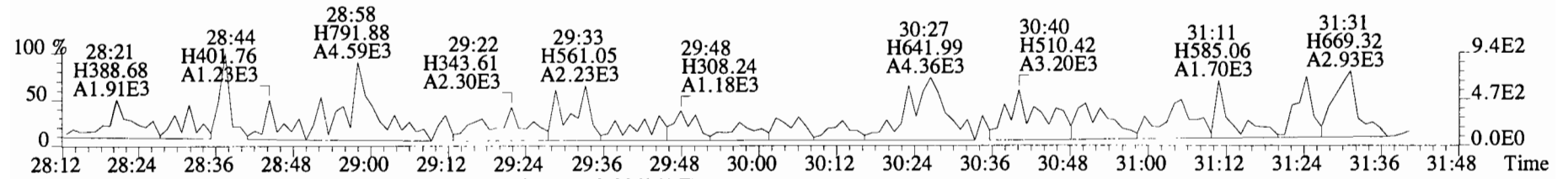
316.9824 S:8



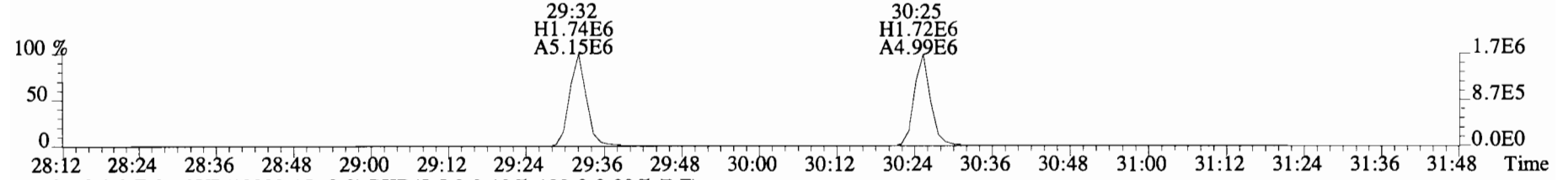
File:191108D1 #1-210 Acq: 8-NOV-2019 17:29:33 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#8 File Text:Viata Analytical Laboratory\_VG7 Text:B9K0011-BLK1 Method Blank 10 Exp:OCDD\_DB5  
 339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



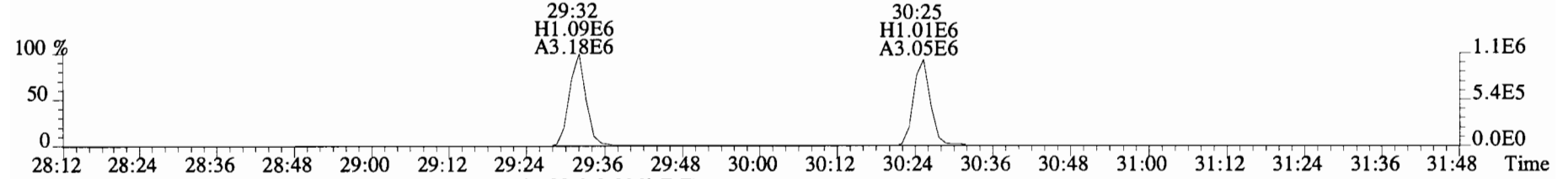
341.8568 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



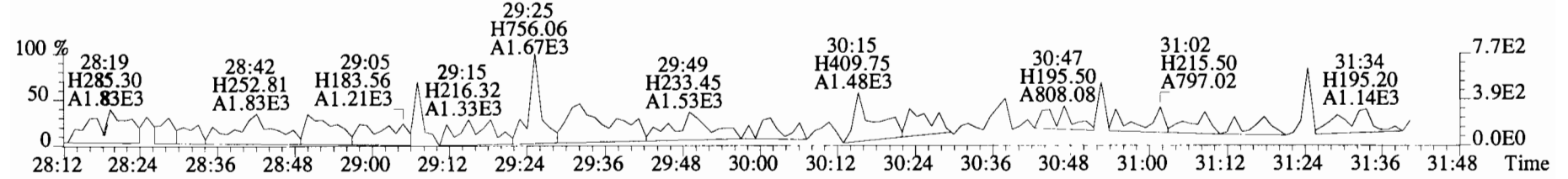
351.9000 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



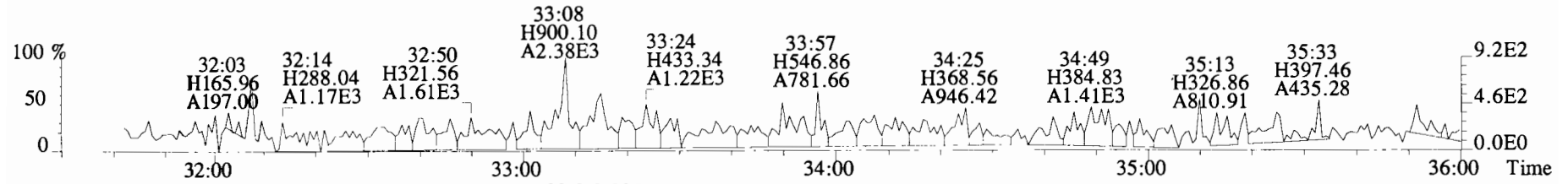
353.8970 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



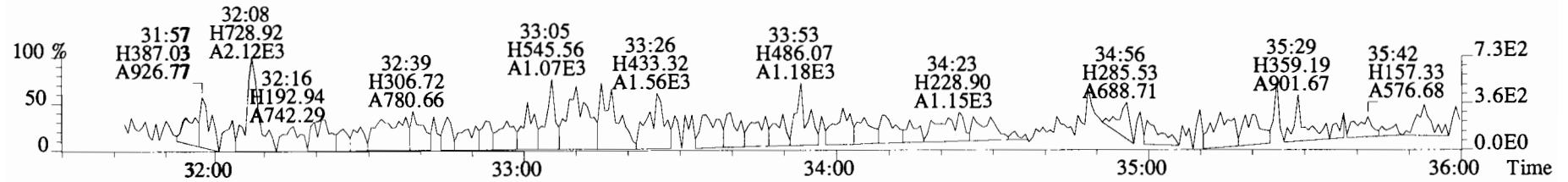
409.7974 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



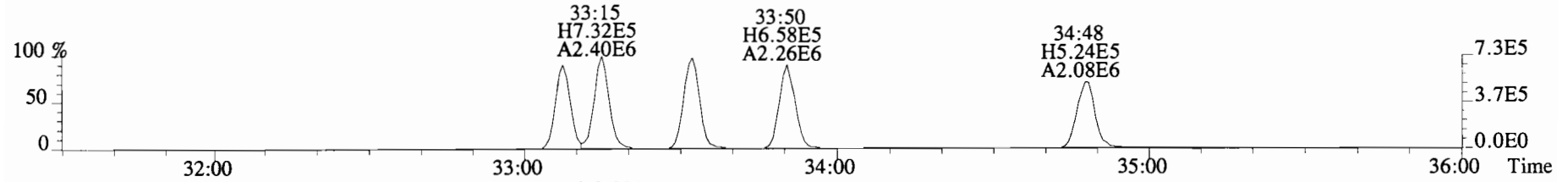
File:191108D1 #1-385 Acq: 8-NOV-2019 17:29:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BLK1 Method Blank 10 Exp:OCDD\_DB5  
373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



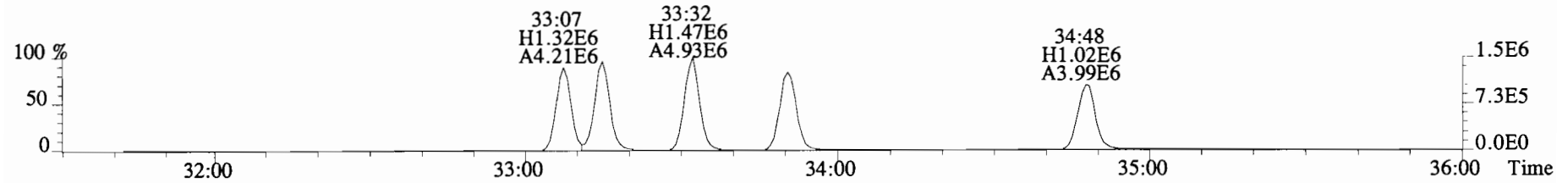
375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



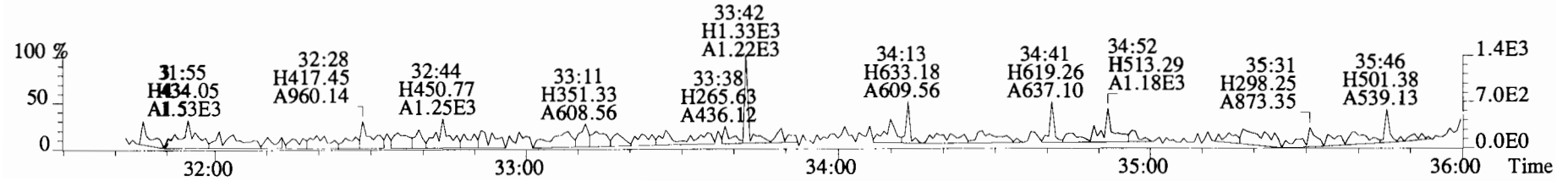
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



385.8610 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

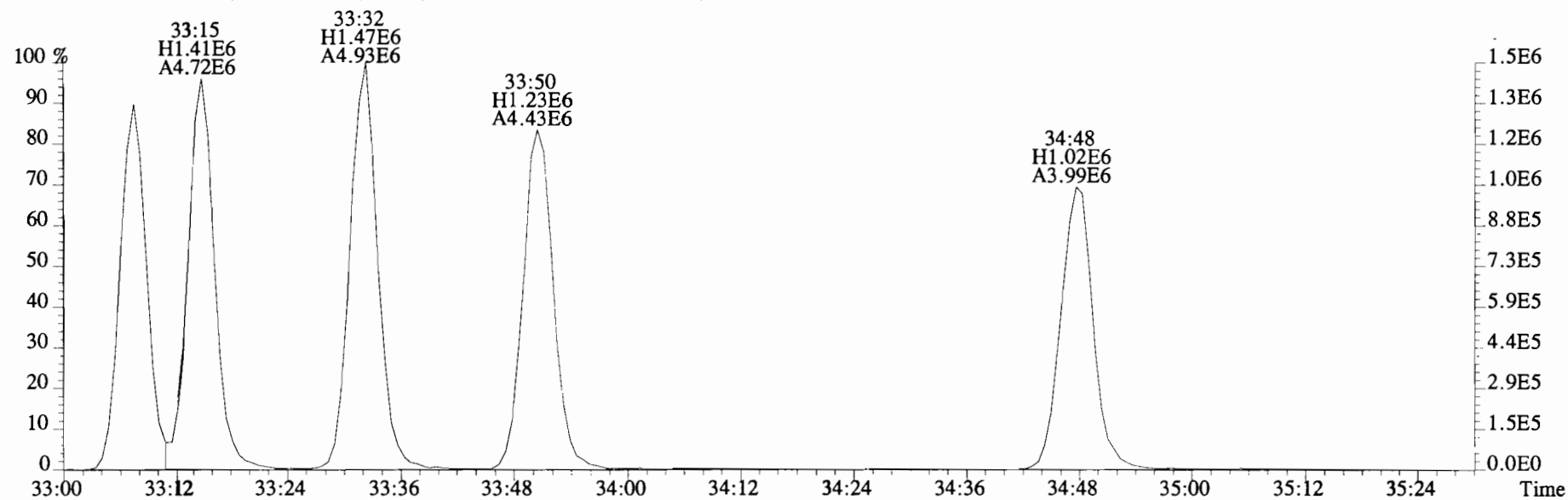
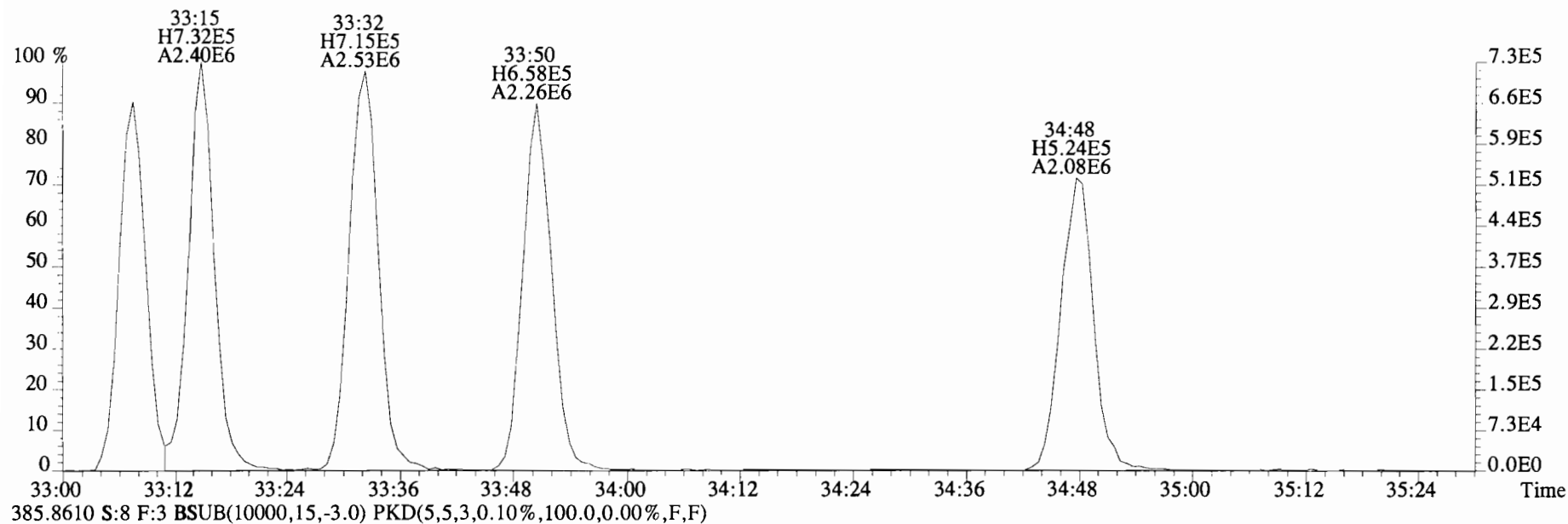


445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

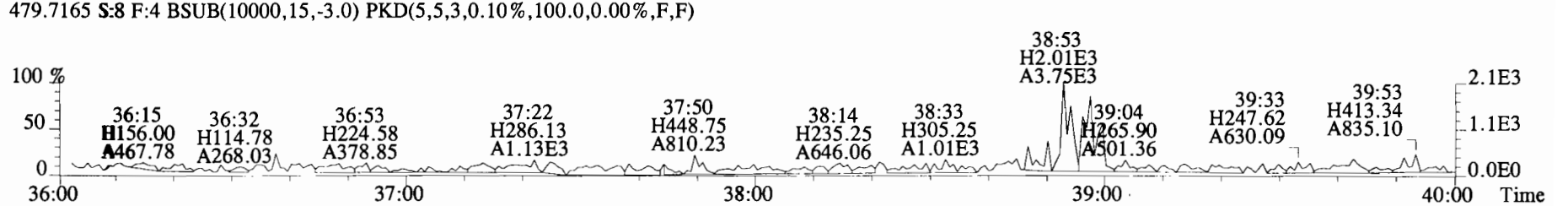
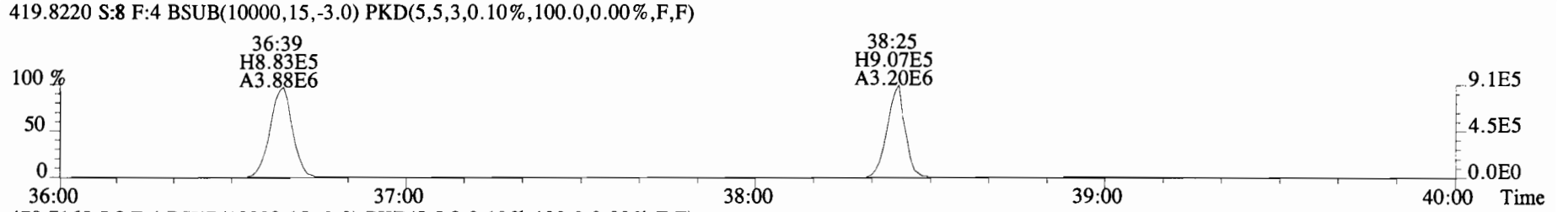
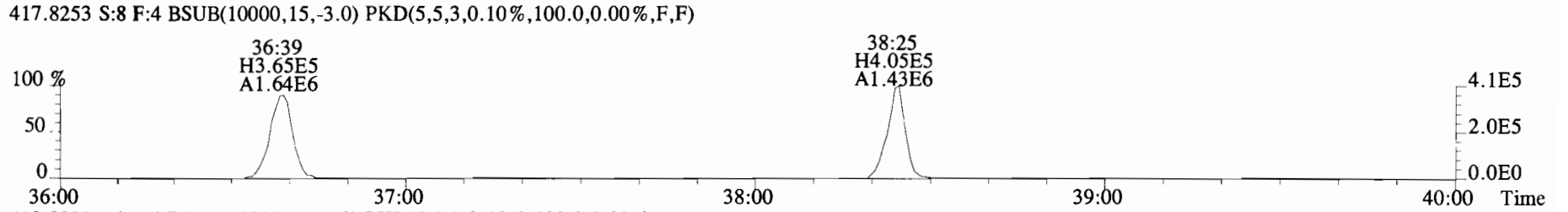
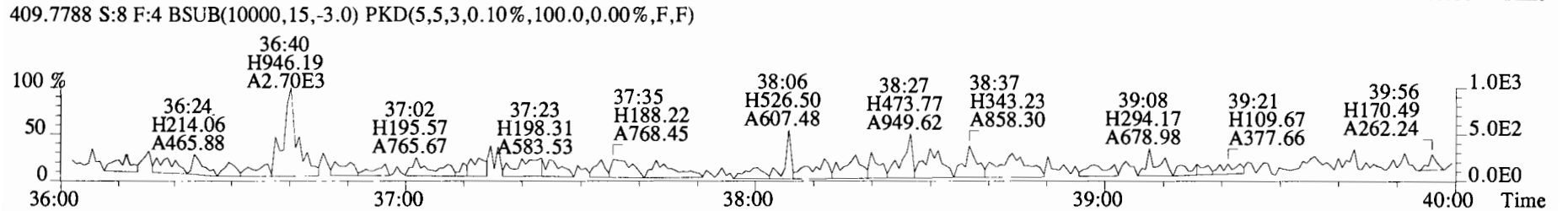
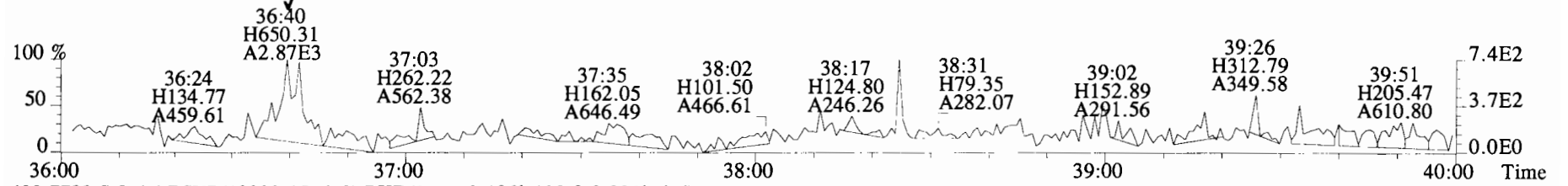




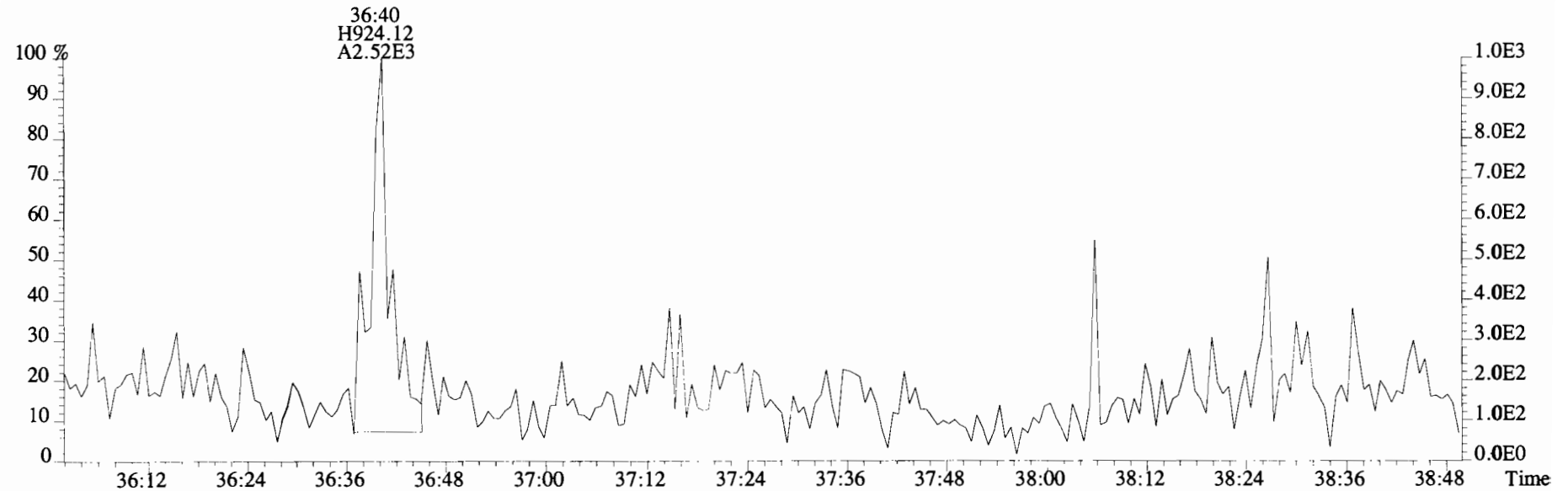
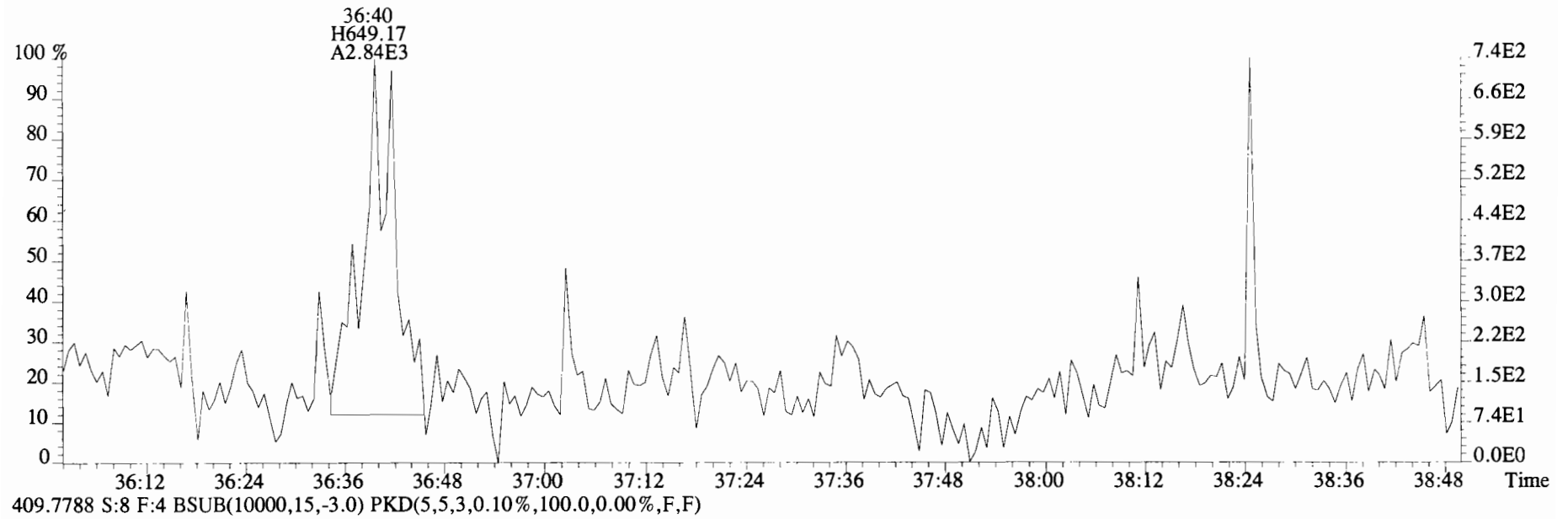
File:191108D1 #1-385 Acq: 8-NOV-2019 17:29:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Viata Analytical Laboratory\_VG7 Text:B9K0011-BLK1 Method Blank 10 Exp:OCDD\_DB5  
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



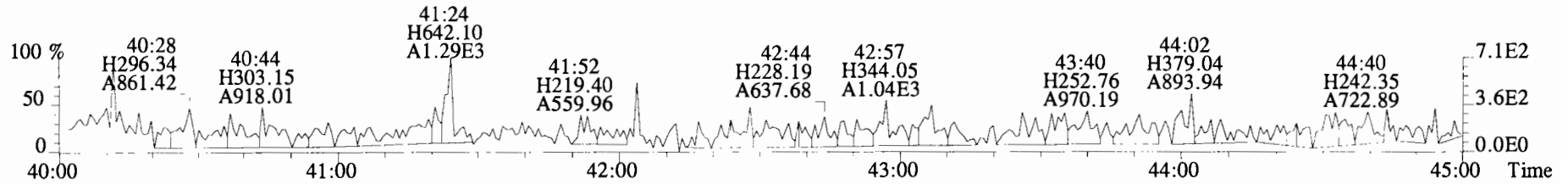
File:191108D1 #1-355 Acq: 8-NOV-2019 17:29:33 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#8 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BLK1 Method Blank 10 Exp:OCDD\_DB5  
 407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



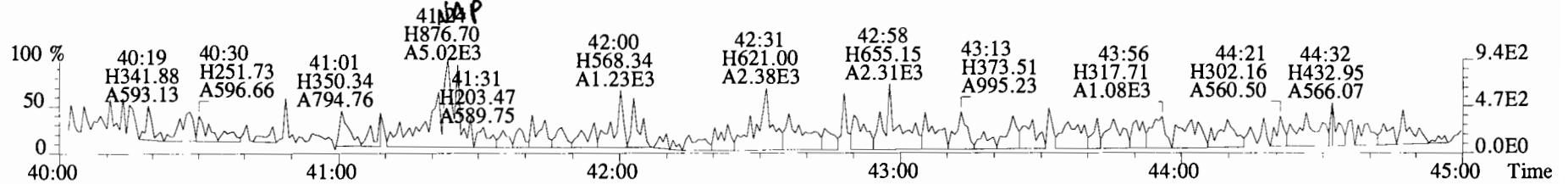
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Sample#8 File Text:Viata Analytical Laboratory VG7 Text:B9K0011-BLK1 Method Blank 10 Exp:OCDD\_DB5  
407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



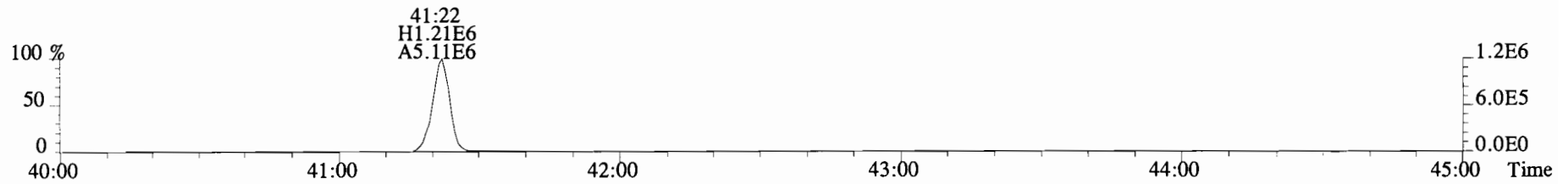
File:191108D1 #1-432 Acq: 8-NOV-2019 17:29:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BLK1 Method Blank 10 Exp:OCDD\_DB5  
441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



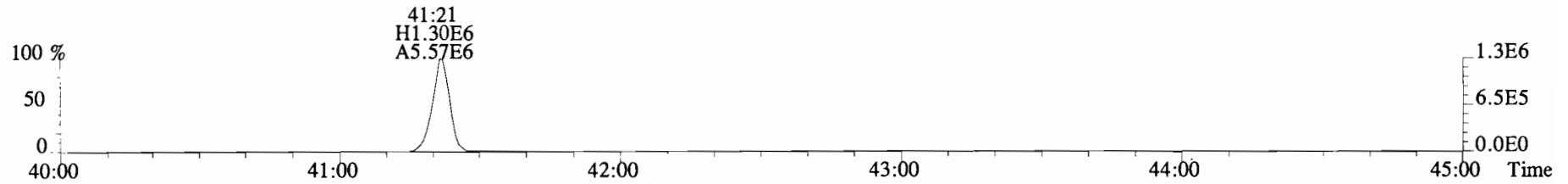
443.7398 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



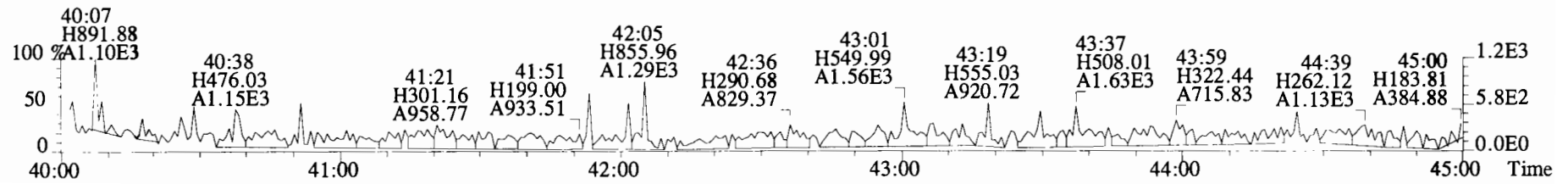
453.7831 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)



FORM 8A  
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory      Extraction Batch: B9K0011-BS1

Contract No.:                      SAS No.:

Matrix (aqueous/solid/leachate): SOLID      OPR Data Filename: 191108D1-4

Ext. Date:                      Shift: Day      Analysis Date: 8-NOV-19      Time: 14:17:51

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	10.4	6.7 - 15.8 7.3 - 14.6 (2)
1,2,3,7,8-PeCDD	50	43.9	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	47.8	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	49.8	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	47.8	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	48.1	35.0 - 70.0
OCDD	100	99.7	78.0 - 144.0
2,3,7,8-TCDF	10	8.66	7.5 - 15.8 8.0 - 14.7 (2)
1,2,3,7,8-PeCDF	50	46.2	40.0 - 67.0
2,3,4,7,8-PeCDF	50	46.3	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	47.1	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	47.2	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	49.0	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	47.5	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	46.7	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	45.0	39.0 - 69.0
OCDF	100	93.9	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: 11/8/19

FORM 8B  
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory      Extraction Batch: B9K0011-BS1

Contract No.:                      SAS No.:

Matrix (aqueous/solid/leachate): SOLID      OPR Data Filename: 191108D1-4

Ext. Date:                      Shift: Day      Analysis Date: 8-NOV-19      Time: 14:17:51

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	78.4	20.0 - 175.0 25.0 - 141.0 (2)
13C-1,2,3,7,8-PeCDD	100	91.9	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	97.0	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	83.6	25.0 - 163.0
13C-1,2,3,7,8,9-HxCDD	100	90.7	21.0 - 193.0
13C-1,2,3,4,6,7,8-HpCDD	100	100	26.0 - 166.0
13C-OCDD	200	201	26.0 - 397.0
13C-2,3,7,8-TCDF	100	75.3	22.0 - 152.0 26.0 - 126.0 (2)
13C-1,2,3,7,8-PeCDF	100	88.2	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	79.8	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	93.0	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	84.1	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	84.1	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	91.9	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	90.6	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	102	20.0 - 186.0
13C-OCDF	200	204	26.0 - 397.0
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	35.1	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: 11/8/19

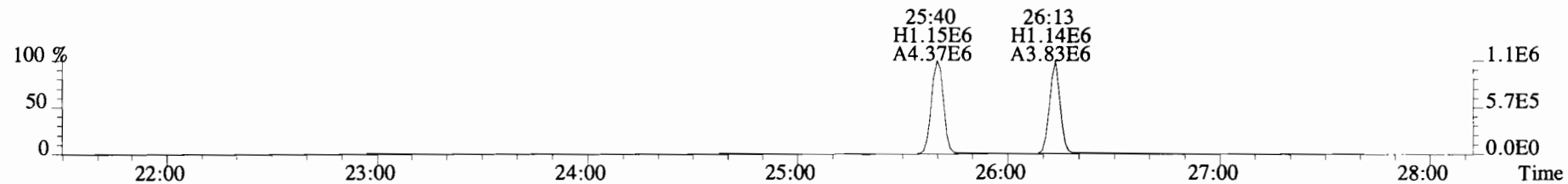
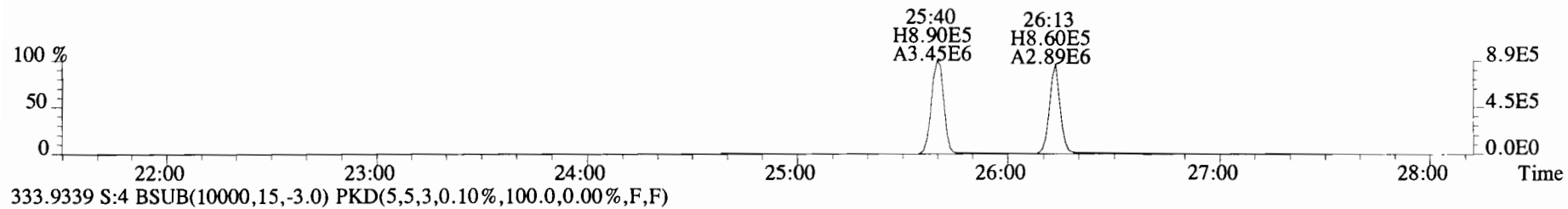
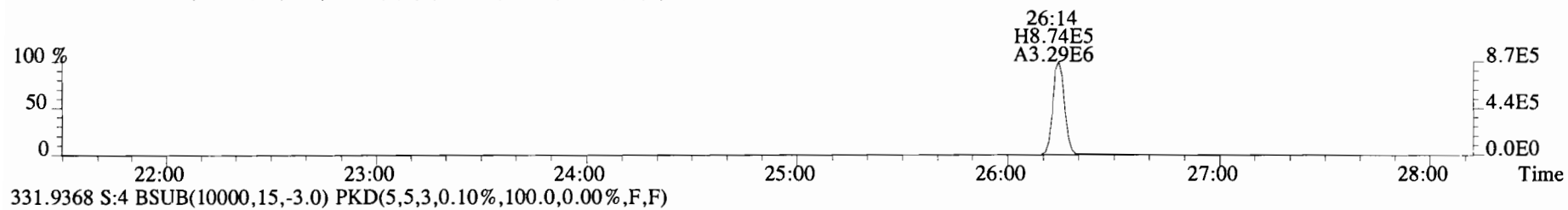
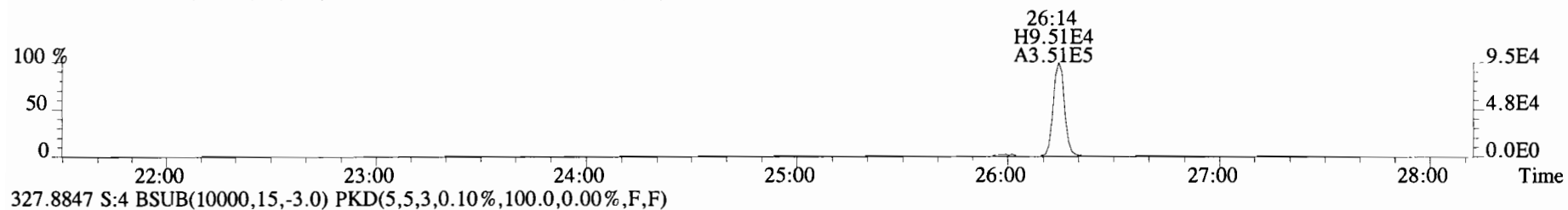
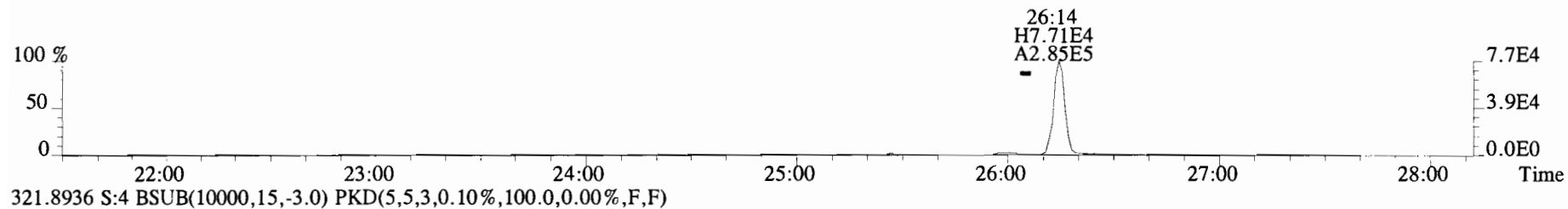
Client ID: OPR  
Lab ID: B9K0011-BS1

Filename: 191108D1 S:4 Acq: 8-NOV-19 14:17:51  
GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19 wt/vol: 1.000

ConCal: ST191108D1-1  
EndCAL: NA

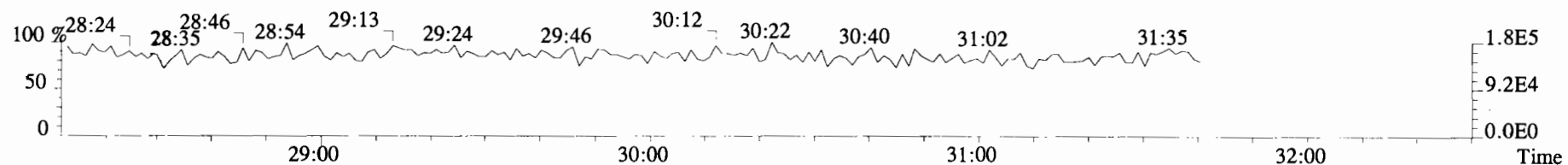
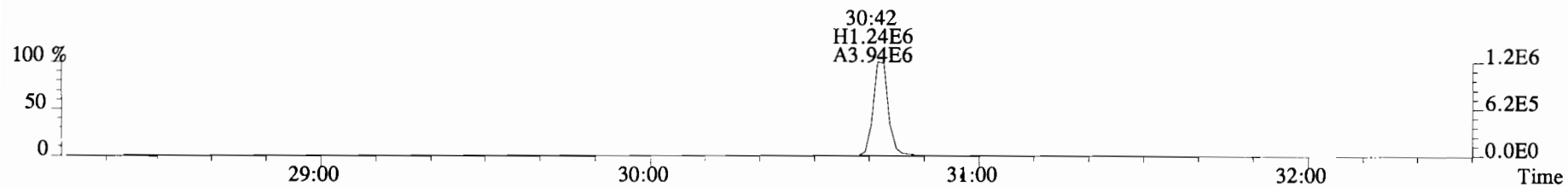
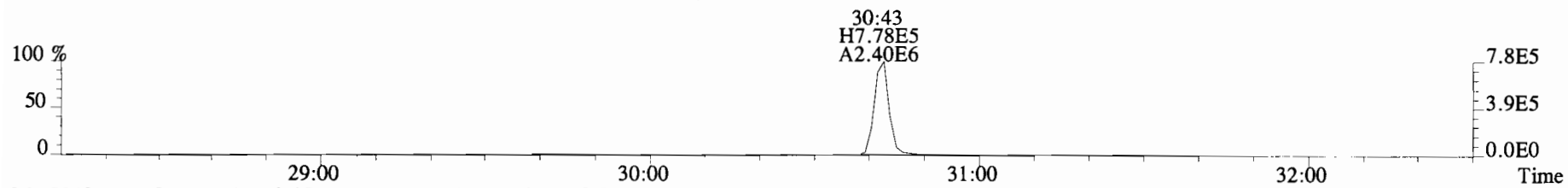
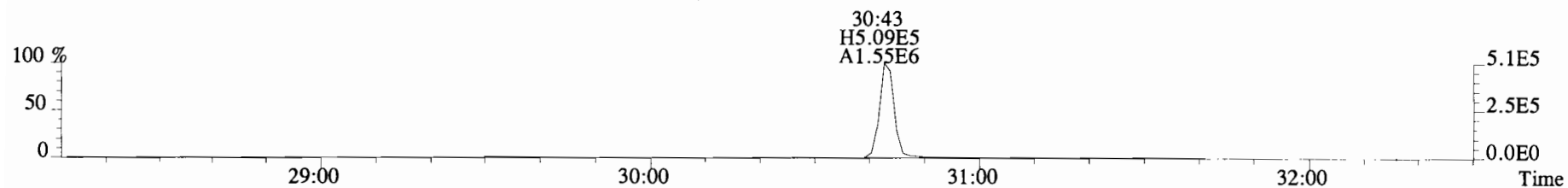
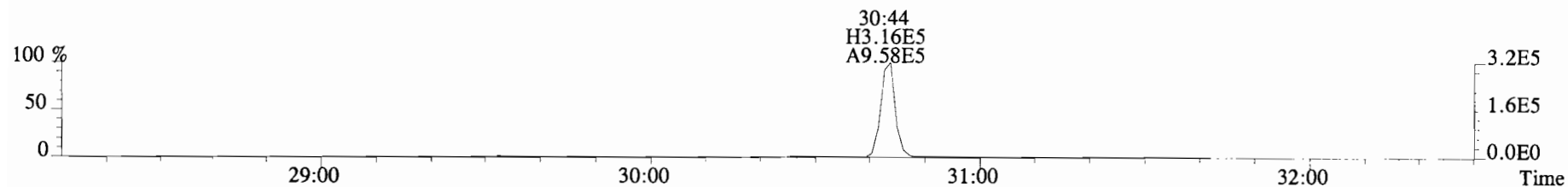
Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	6.36e+05	0.81 y	0.91	26:14	10.449	*	2.5	*	*	Total Tetra-Dioxins	11.0	11.9	*	*	
1,2,3,7,8-PeCDD	2.51e+06	0.62 y	0.90	30:43	43.900	*	2.5	*	*	Total Penta-Dioxins	43.9	44.4	*	*	
1,2,3,4,7,8-HxCDD	3.04e+06	1.20 y	1.10	34:01	47.757	*	2.5	*	*	Total Hexa-Dioxins	145	146	*	*	
1,2,3,6,7,8-HxCDD	3.10e+06	1.22 y	0.94	34:07	49.762	*	2.5	*	*	Total Hepta-Dioxins	48.3	50.0	*	*	
1,2,3,7,8,9-HxCDD	3.12e+06	1.20 y	0.96	34:26	47.764	*	2.5	*	*	Total Tetra-Furans	9.32	10.4	*	*	
1,2,3,4,6,7,8-HpCDD	2.86e+06	1.03 y	0.98	37:52	48.101	*	2.5	*	*	Total Penta-Furans	93.589	94.153	*	*	
OCDD	5.16e+06	0.88 y	0.96	41:09	99.661	*	2.5	*	*	Total Hexa-Furans	191	192	*	*	
2,3,7,8-TCDF	8.04e+05	0.78 y	0.95	25:28	8.6600	*	2.5	*	*	Total Hepta-Furans	91.7	92.9	*	*	
1,2,3,7,8-PeCDF	4.20e+06	1.68 y	0.96	29:33	46.244	*	2.5	*	*						
2,3,4,7,8-PeCDF	3.99e+06	1.71 y	1.01	30:26	46.285	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	3.98e+06	1.24 y	1.18	33:08	47.117	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	4.07e+06	1.22 y	1.07	33:16	47.197	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	4.06e+06	1.20 y	1.11	33:51	48.992	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	3.56e+06	1.22 y	1.06	34:48	47.463	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	3.35e+06	1.03 y	1.13	36:39	46.681	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	3.17e+06	1.01 y	1.28	38:25	45.019	*	2.5	*	*						
OCDF	5.81e+06	0.89 y	0.95	41:22	93.930	*	2.5	*	*						
IS	13C-2,3,7,8-TCDD	6.72e+06	0.75 y	1.10	26:13	78.446				Rec	Qual				
IS	13C-1,2,3,7,8-PeCDD	6.33e+06	0.61 y	0.88	30:42	91.874				78.4					
IS	13C-1,2,3,4,7,8-HxCDD	5.78e+06	1.24 y	0.64	34:01	97.028				91.9					
IS	13C-1,2,3,6,7,8-HxCDD	6.63e+06	1.27 y	0.86	34:07	83.598				97.0					
IS	13C-1,2,3,7,8,9-HxCDD	6.79e+06	1.25 y	0.81	34:25	90.731				83.6					
IS	13C-1,2,3,4,6,7,8-HpCDD	6.07e+06	1.05 y	0.65	37:51	100.01				90.7					
IS	13C-OCDD	1.08e+07	0.90 y	0.58	41:08	200.89				100					
IS	13C-2,3,7,8-TCDF	9.78e+06	0.80 y	1.03	25:27	75.261				100					
IS	13C-1,2,3,7,8-PeCDF	9.46e+06	1.58 y	0.85	29:32	88.231				75.3					
IS	13C-2,3,4,7,8-PeCDF	8.49e+06	1.59 y	0.85	30:26	79.817				88.2					
IS	13C-1,2,3,4,7,8-HxCDF	7.18e+06	0.51 y	0.83	33:07	93.048				79.8					
IS	13C-1,2,3,6,7,8-HxCDF	8.07e+06	0.52 y	1.03	33:15	84.141				93.0					
IS	13C-2,3,4,6,7,8-HxCDF	7.44e+06	0.51 y	0.95	33:50	84.084				84.1					
IS	13C-1,2,3,7,8,9-HxCDF	7.06e+06	0.50 y	0.83	34:48	91.938				84.1					
IS	13C-1,2,3,4,6,7,8-HpCDF	6.36e+06	0.44 y	0.76	36:38	90.566				91.9					
IS	13C-1,2,3,4,7,8,9-HpCDF	5.50e+06	0.44 y	0.58	38:24	102.03				90.6					
IS	13C-OCDF	1.31e+07	0.91 y	0.69	41:21	204.50				102					
C/Up	37C1-2,3,7,8-TCDD	3.29e+06		1.20	26:14	35.104				102					
RS/RT	13C-1,2,3,4-TCDD	7.82e+06	0.79 y	1.00	25:40	100.00				87.8					
RS	13C-1,2,3,4-TCDF	1.26e+07	0.81 y	1.00	24:15	100.00				Integrations					
RS/RT	13C-1,2,3,4,6,9-HxCDF	9.28e+06	0.51 y	1.00	33:32	100.00				by					
										Analyst: <u>DB</u>					
										Analyst: <u>CT</u>					
										Date: <u>11/8/19</u>					
										Date: <u>12/20/19</u>					

File:191108D1 #1-493 Acq: 8-NOV-2019 14:17:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BS1 OPR 10 Exp:OCDD\_DB5  
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

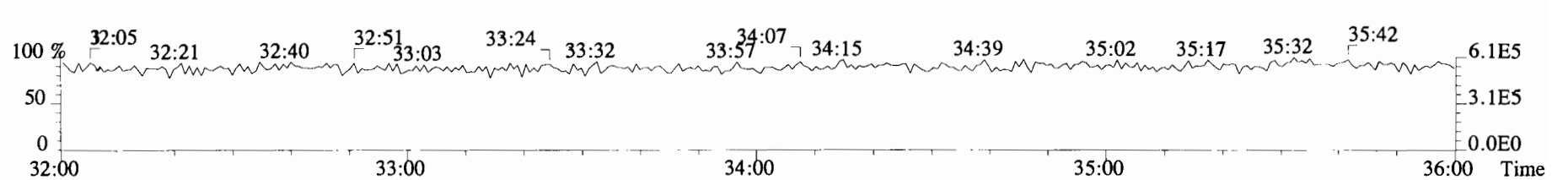
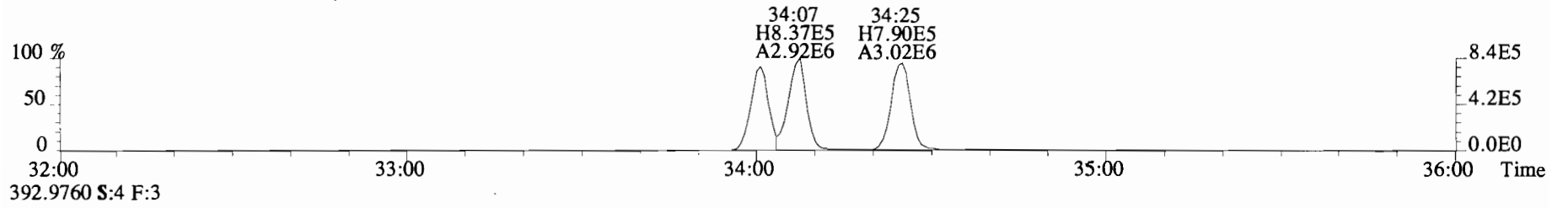
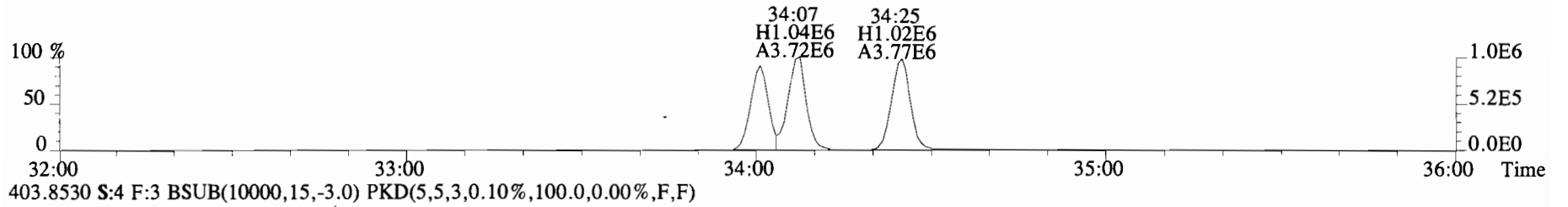
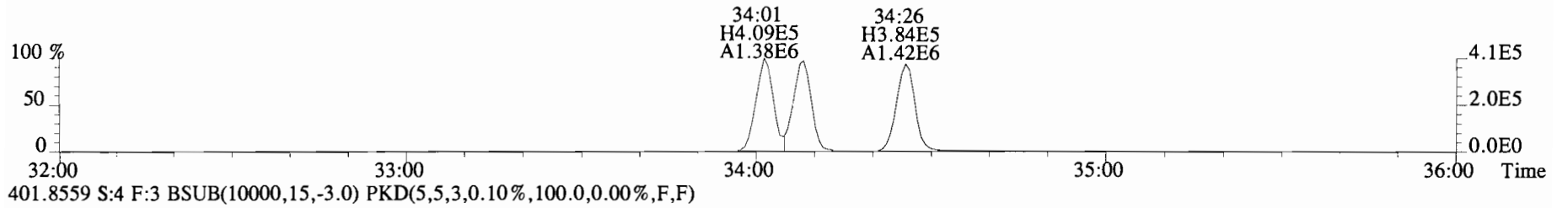
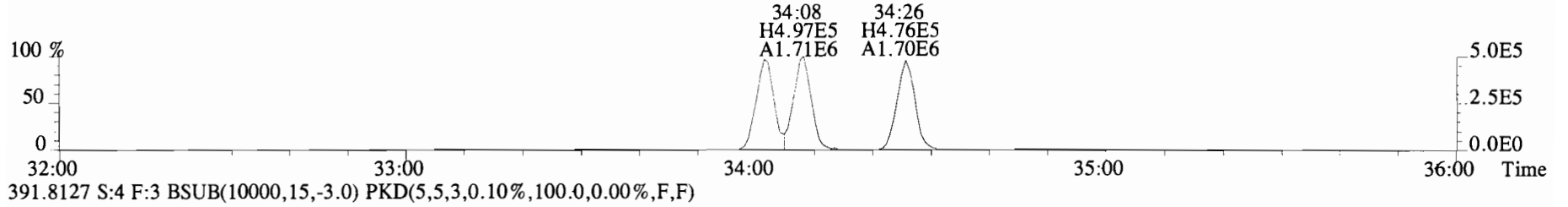




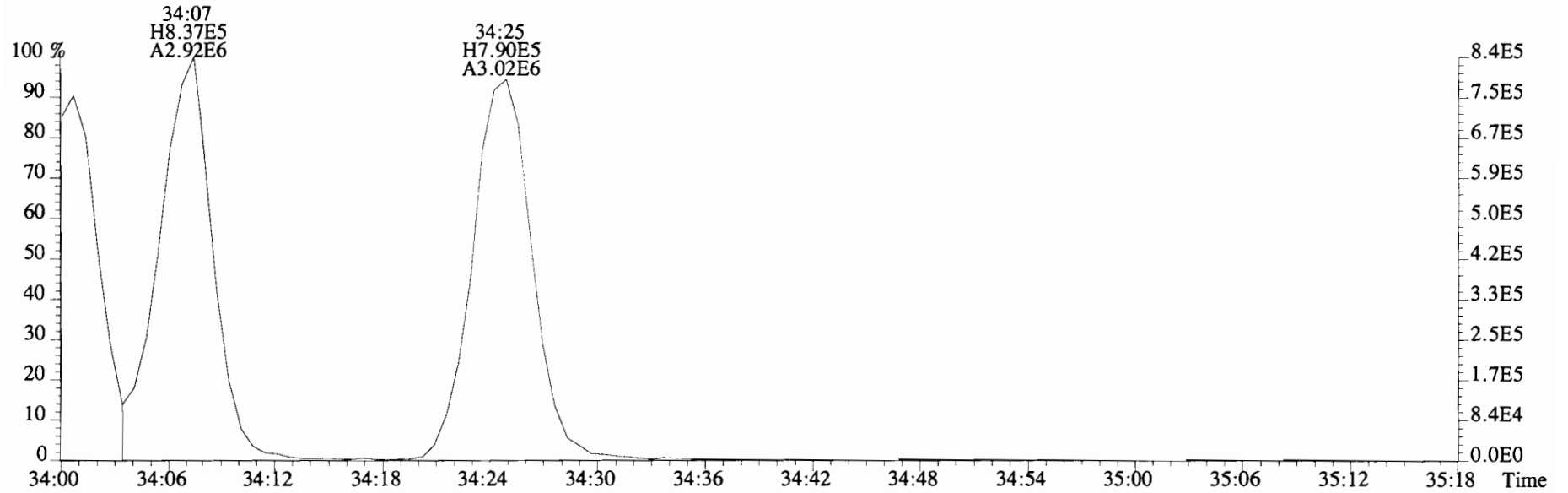
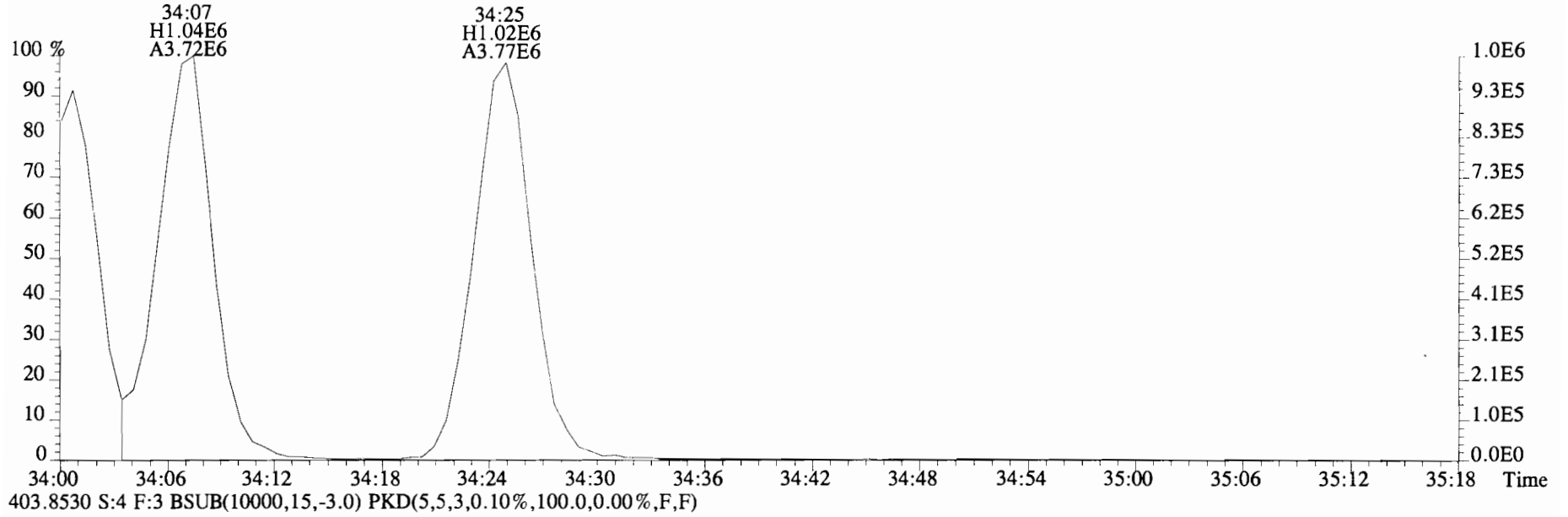
File:191108D1 #1-211 Acq: 8-NOV-2019 14:17:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BS1 OPR 10 Exp:OCDD\_DB5  
353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



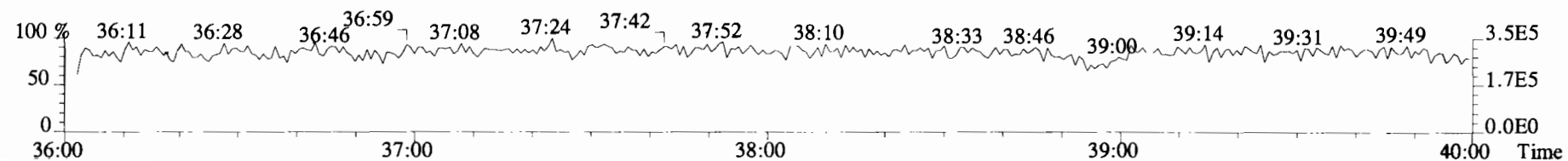
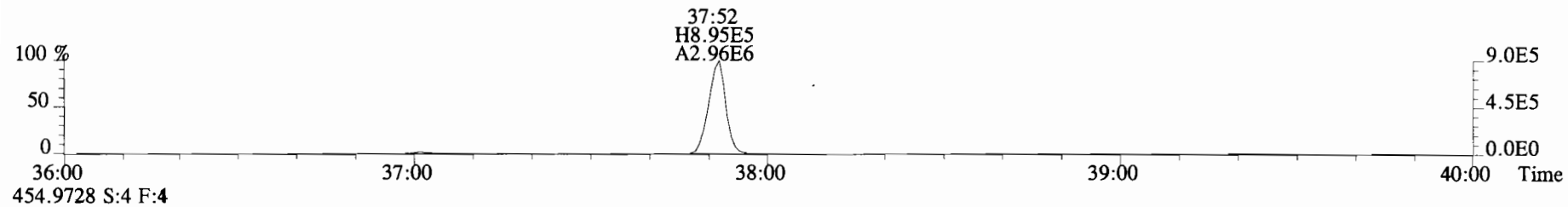
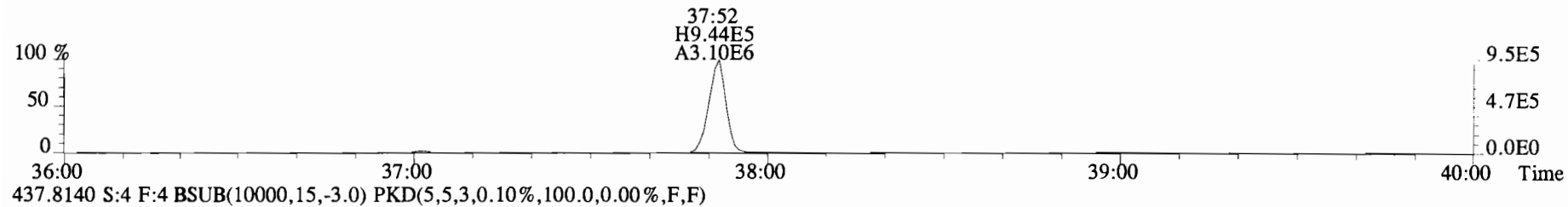
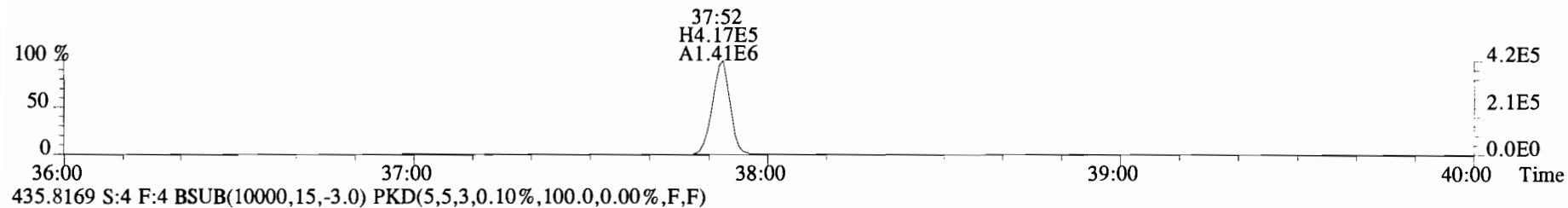
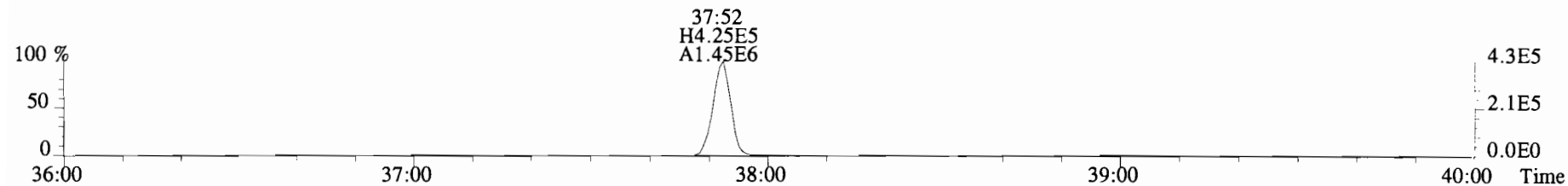
File:191108D1 #1-385 Acq: 8-NOV-2019 14:17:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Viata Analytical Laboratory\_VG7 Text:B9K0011-BS1 OPR 10 Exp:OCDD\_DB5  
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



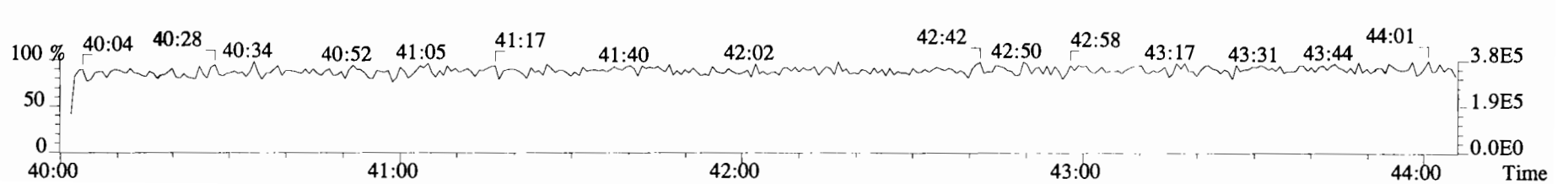
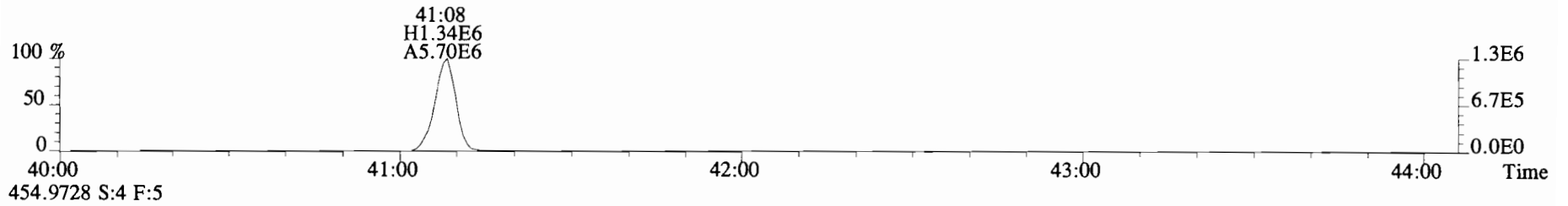
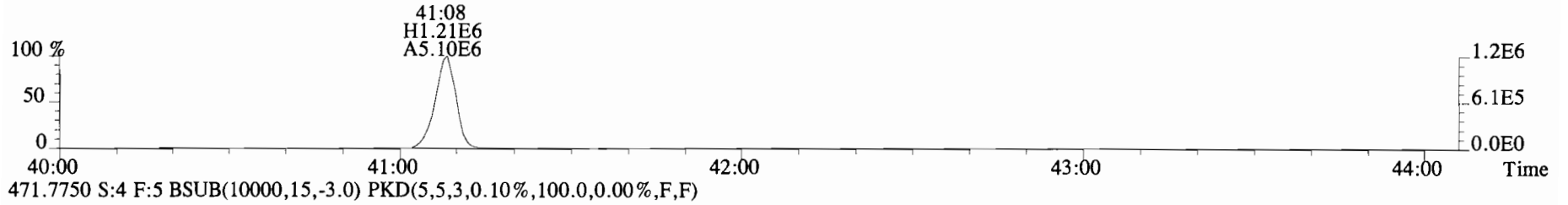
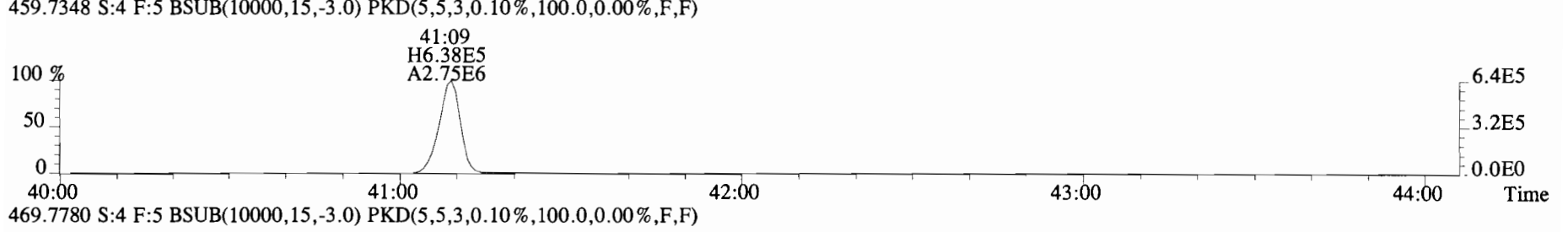
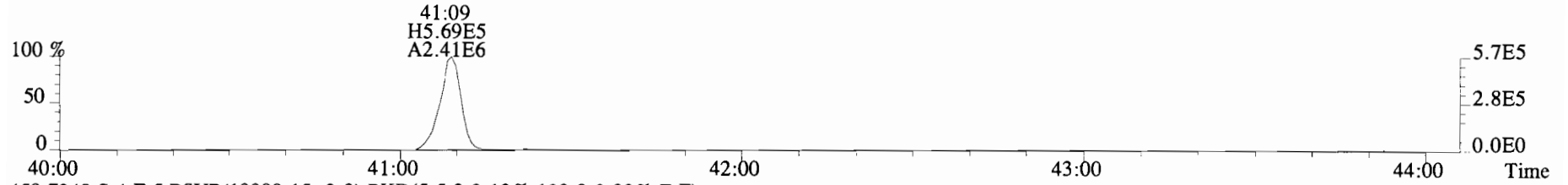
File:191108D1 #1-385 Acq: 8-NOV-2019 14:17:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Viata Analytical Laboratory VG7 Text:B9K0011-BS1 OPR 10 Exp:OCDD\_DB5  
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



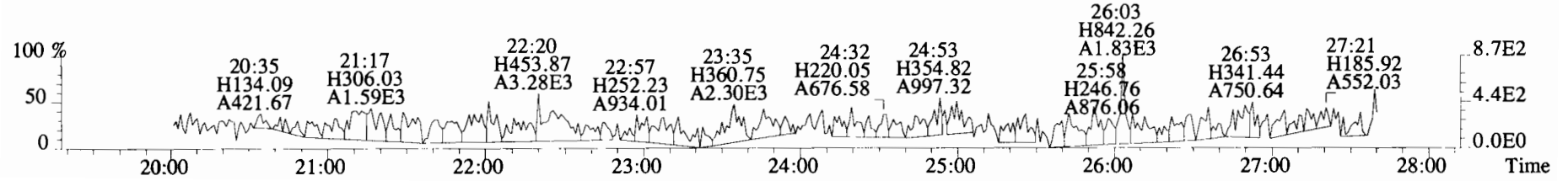
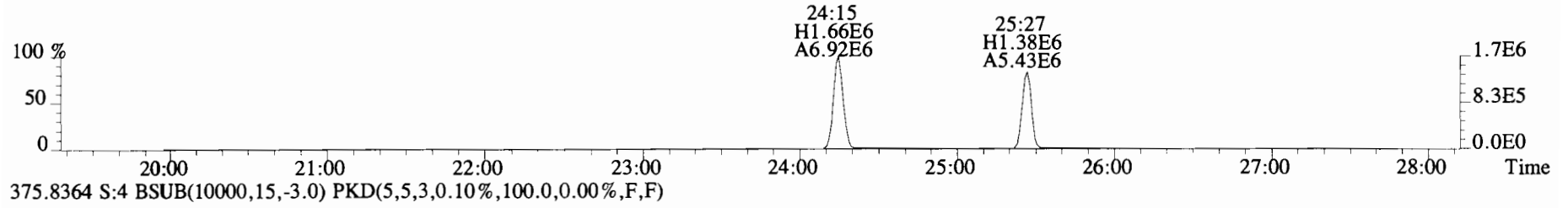
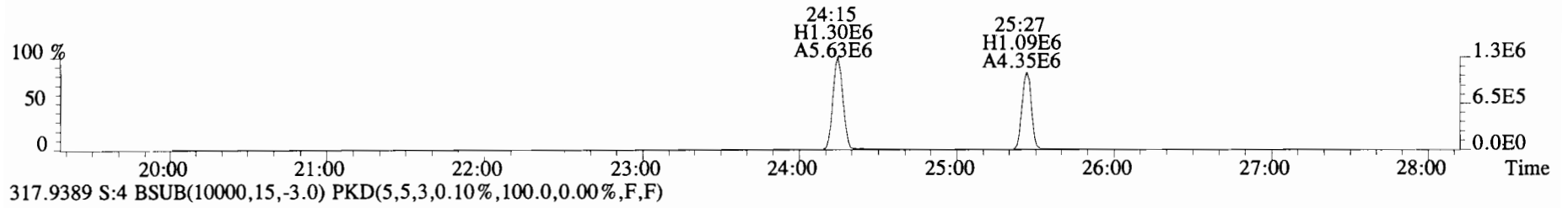
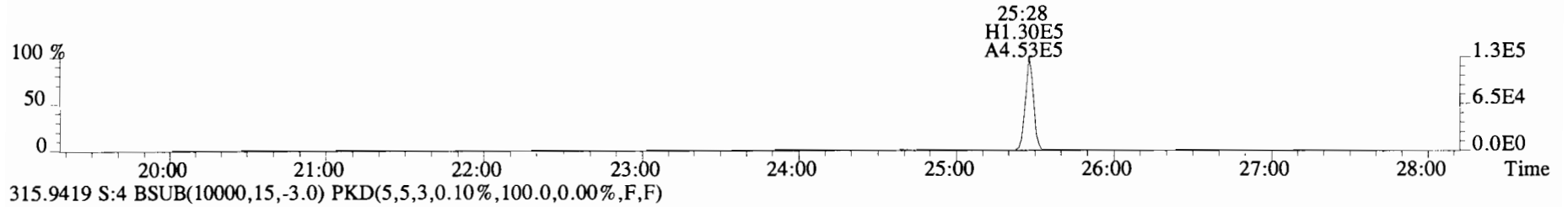
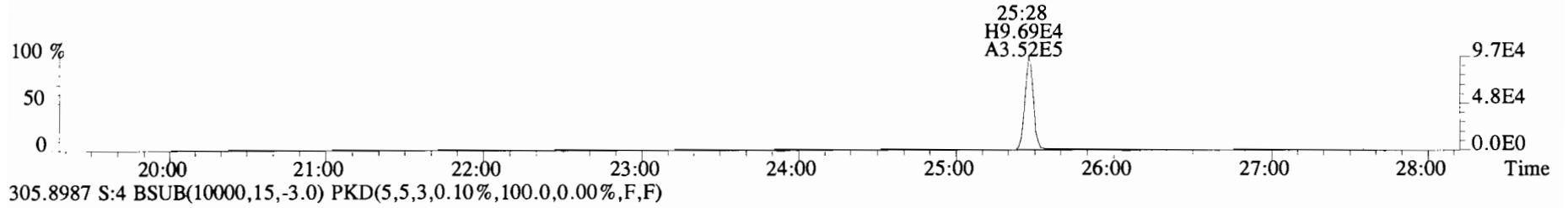
File:191108D1 #1-355 Acq: 8-NOV-2019 14:17:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BS1 OPR 10 Exp:OCDD\_DB5  
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



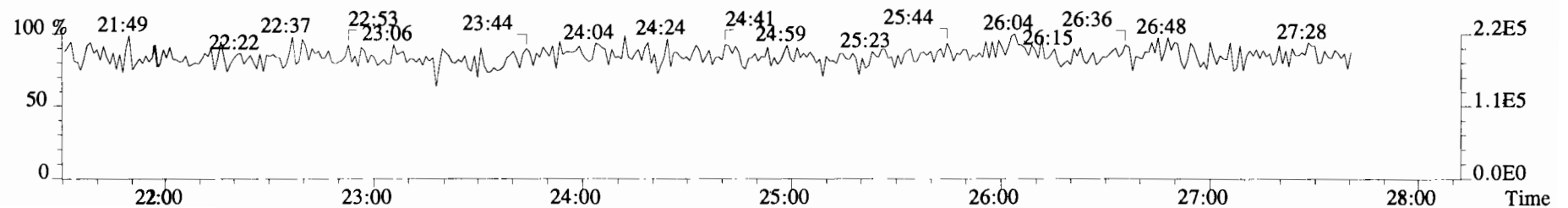
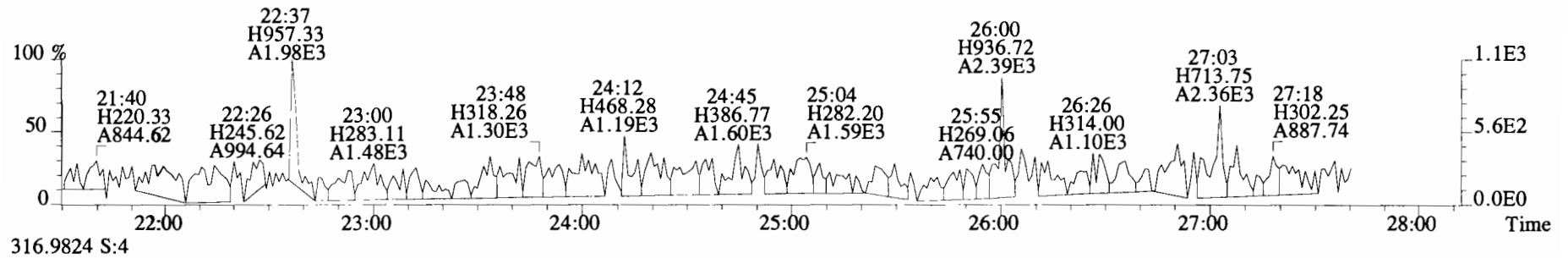
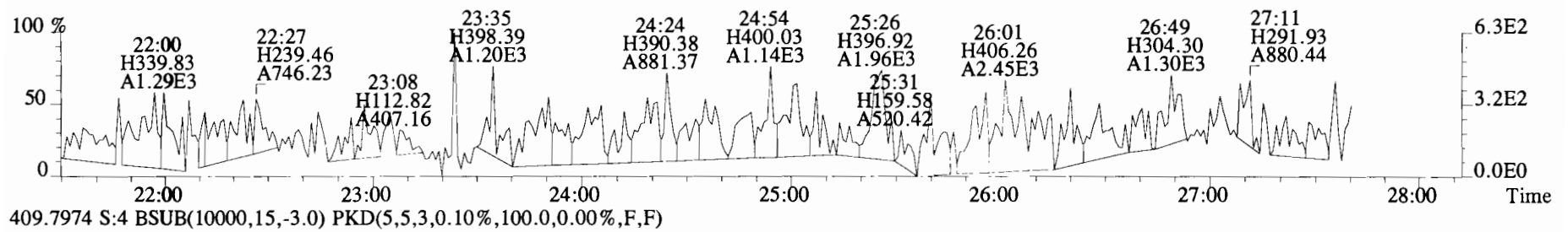
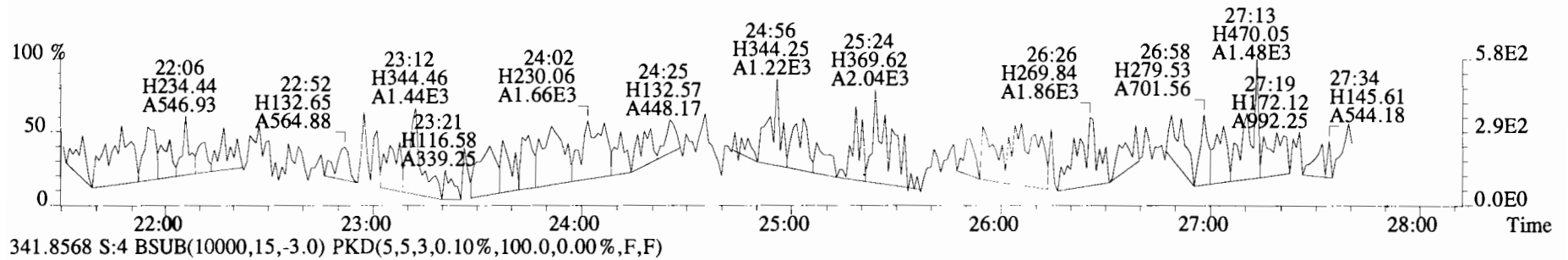
File:191108D1 #1-432 Acq: 8-NOV-2019 14:17:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BS1 OPR 10 Exp:OCDD\_DB5  
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



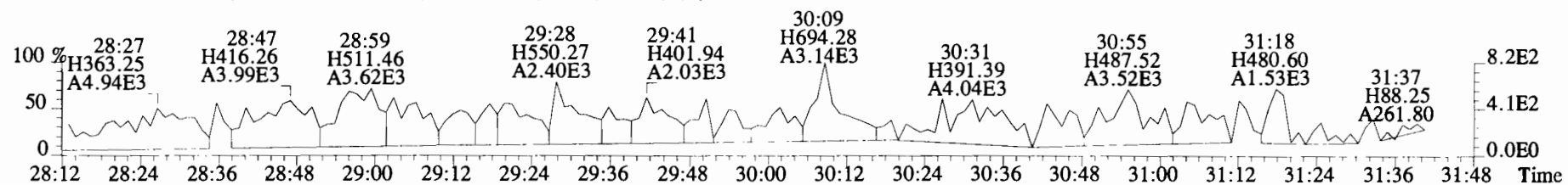
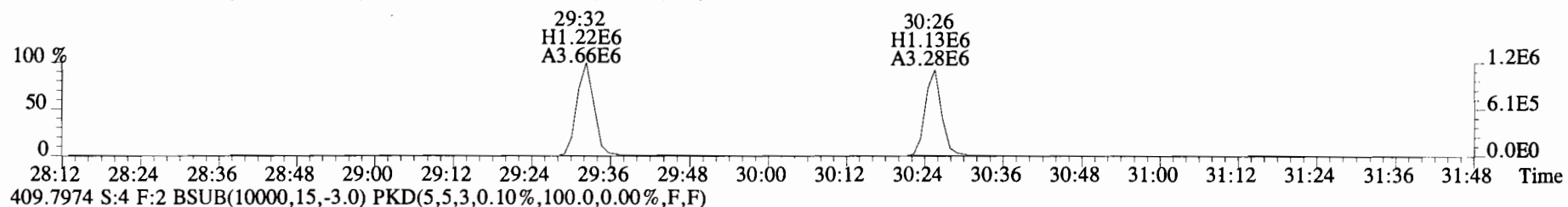
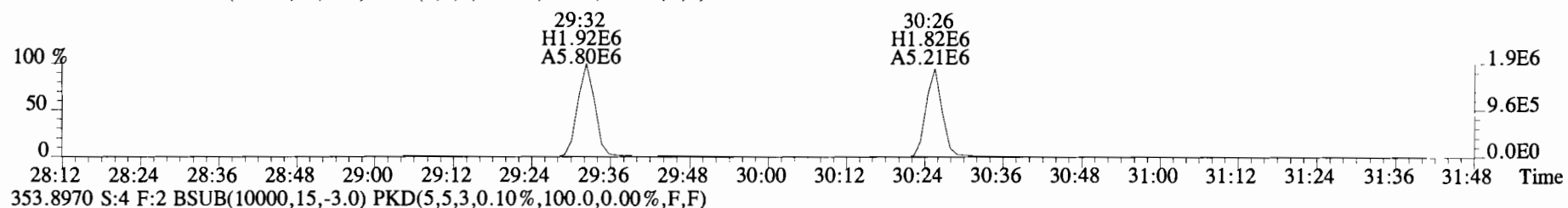
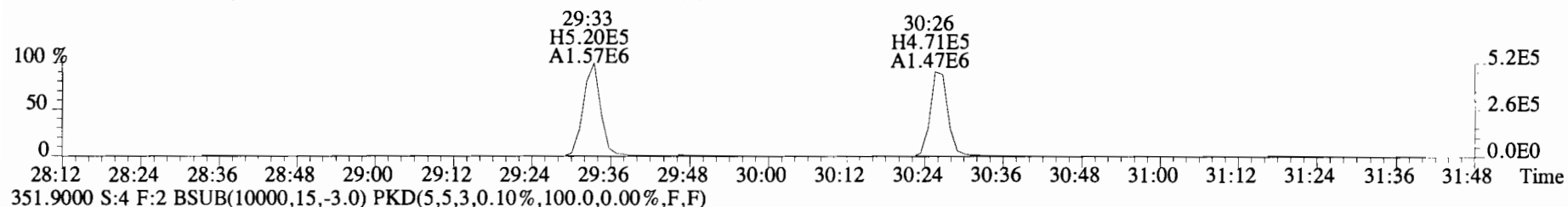
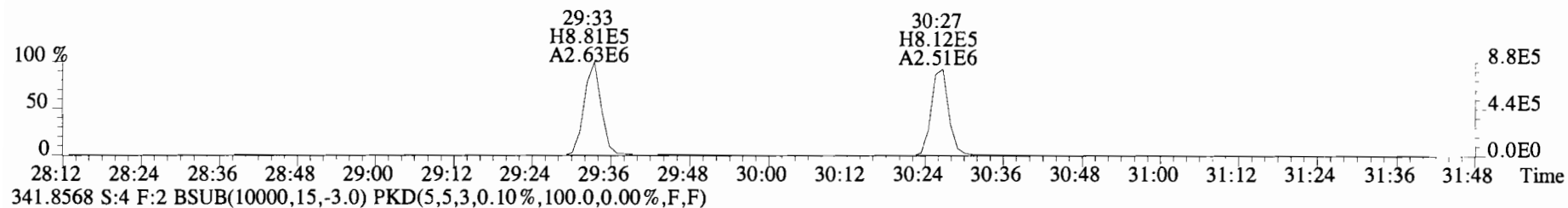
File:191108D1 #1-493 Acq: 8-NOV-2019 14:17:51 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BS1 OPR 10 Exp:OCDD\_DB5  
 303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191108D1 #1-493 Acq: 8-NOV-2019 14:17:51 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BS1 OPR 10 Exp:OCDD\_DB5  
 339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

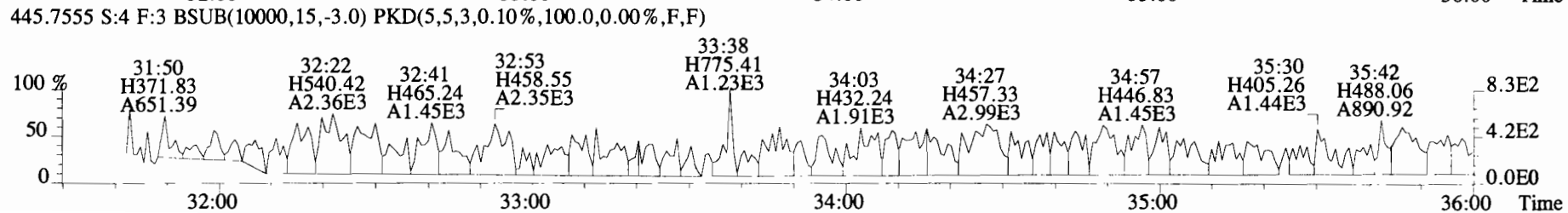
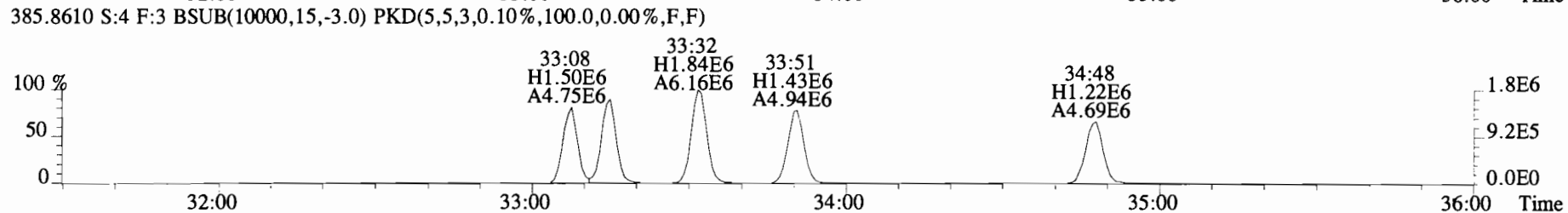
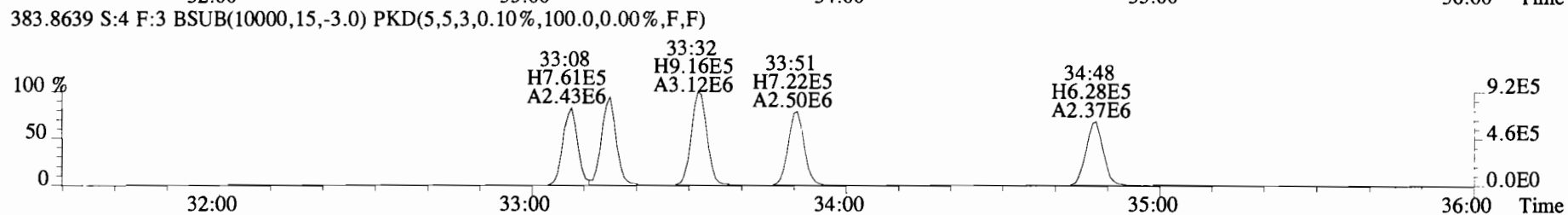
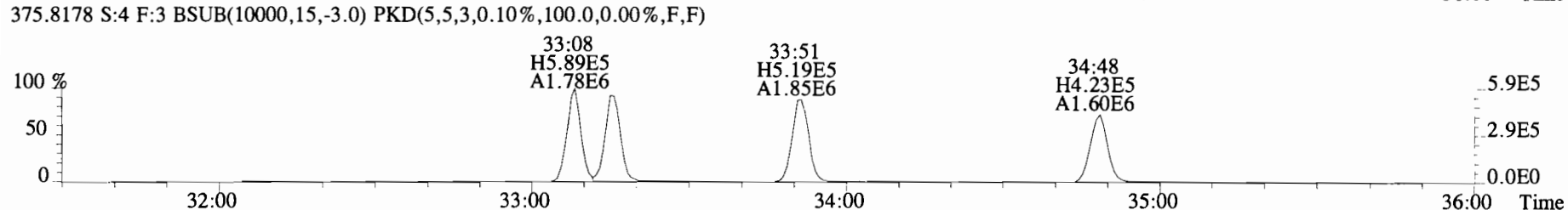
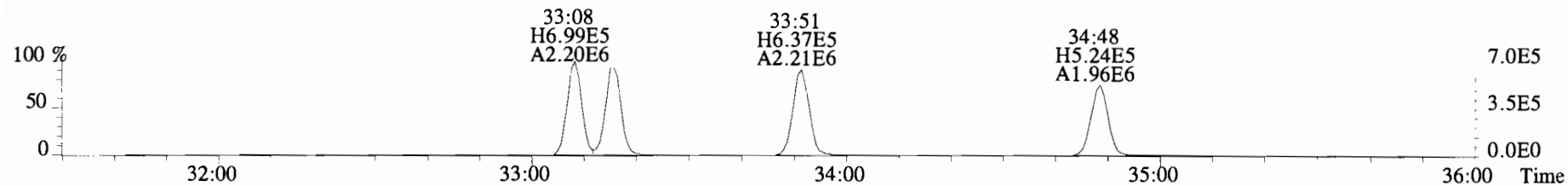


File:191108D1 #1-211 Acq: 8-NOV-2019 14:17:51 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BS1 OPR 10 Exp:OCDD\_DB5  
 339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

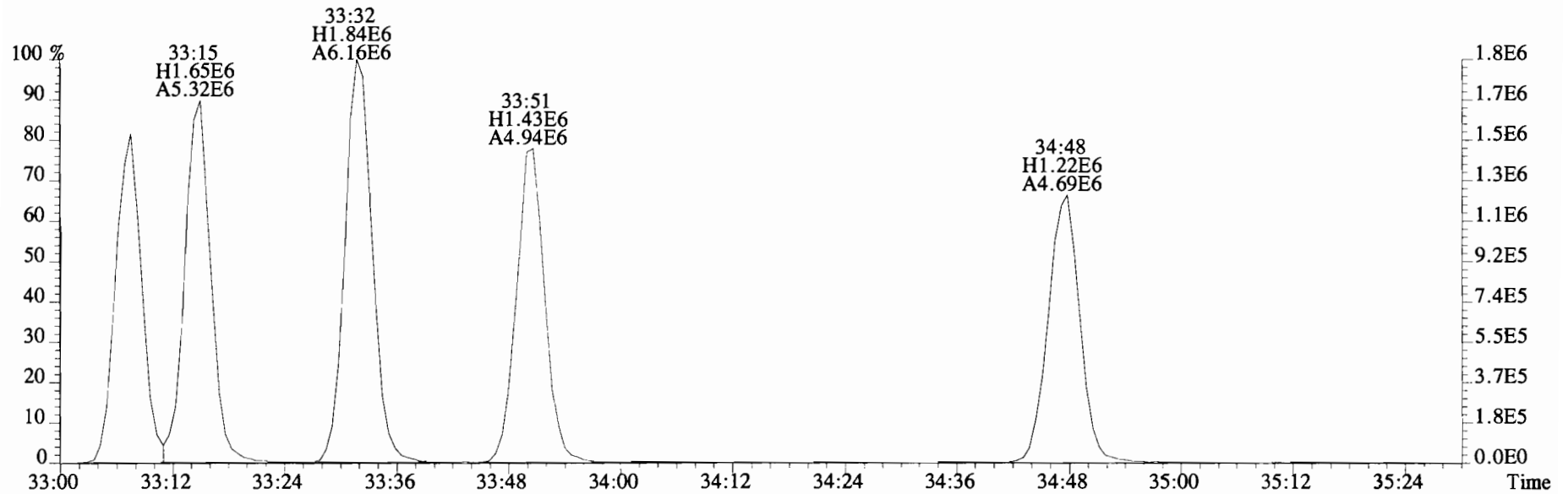
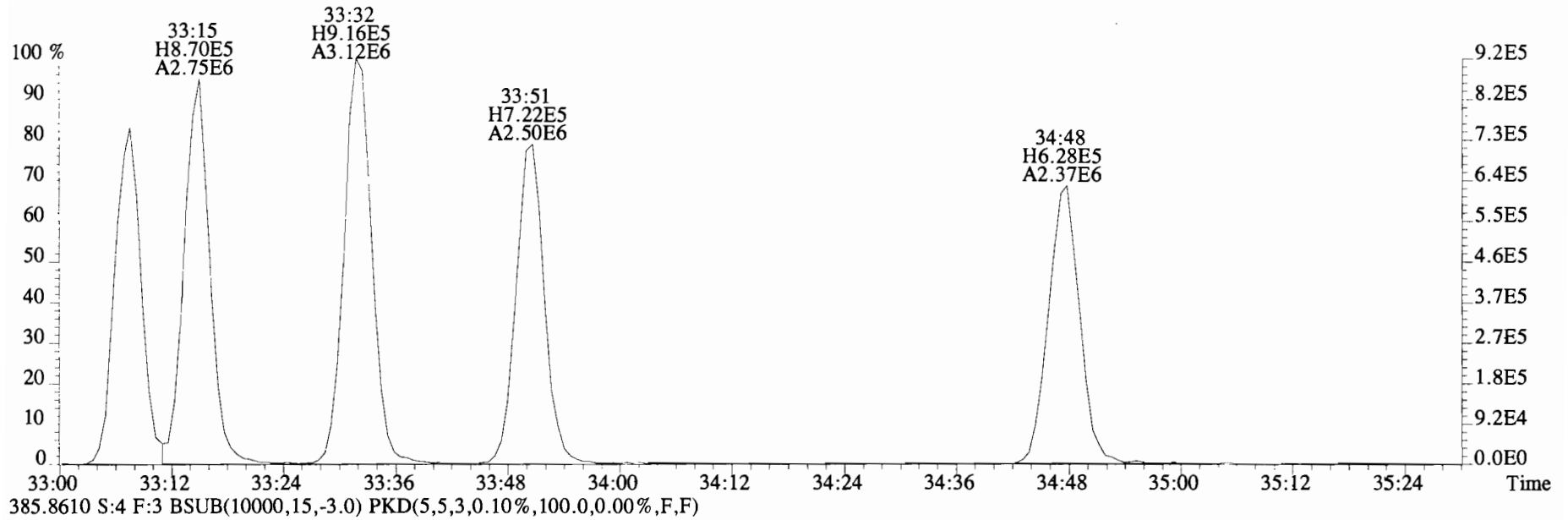




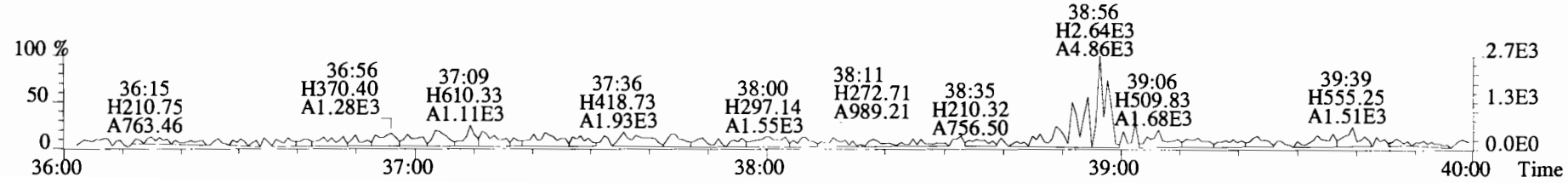
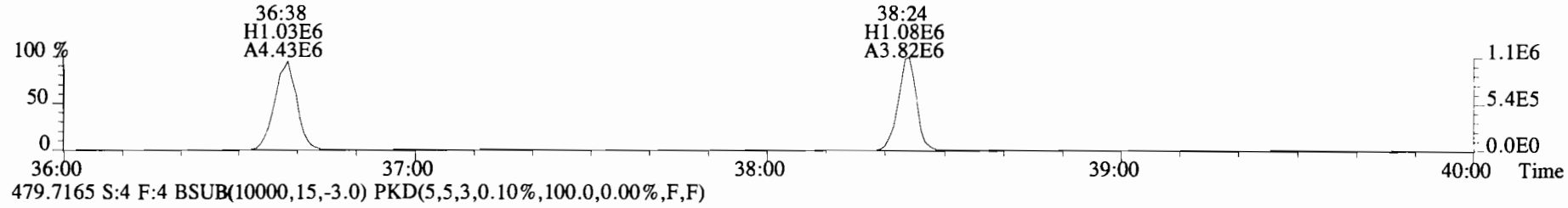
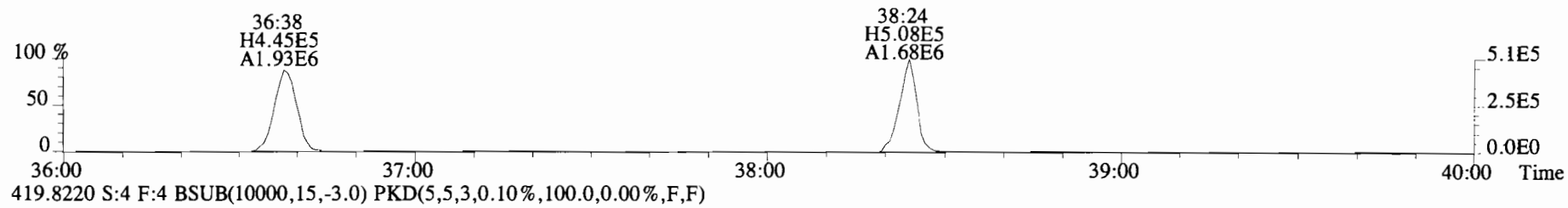
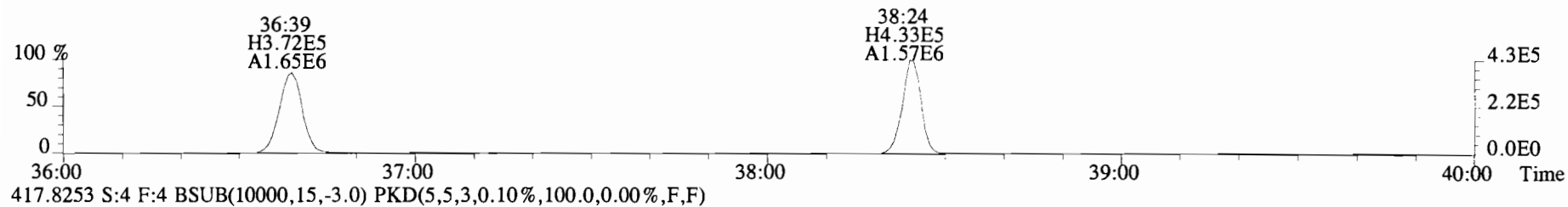
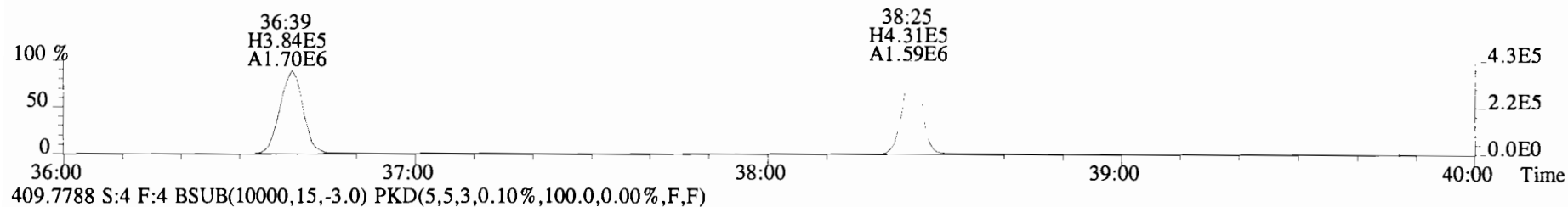
File:191108D1 #1-385 Acq: 8-NOV-2019 14:17:51 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BS1 OPR 10 Exp:OCDD\_DB5  
 373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



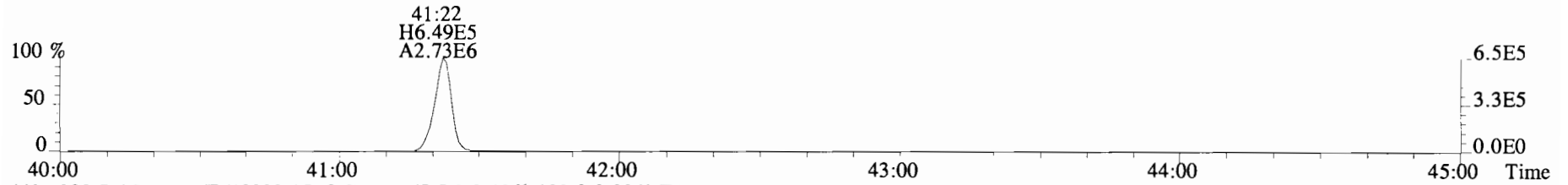
File:191108D1 #1-385 Acq: 8-NOV-2019 14:17:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Viata Analytical Laboratory\_VG7 Text:B9K0011-BS1 OPR 10 Exp:OCDD\_DB5  
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



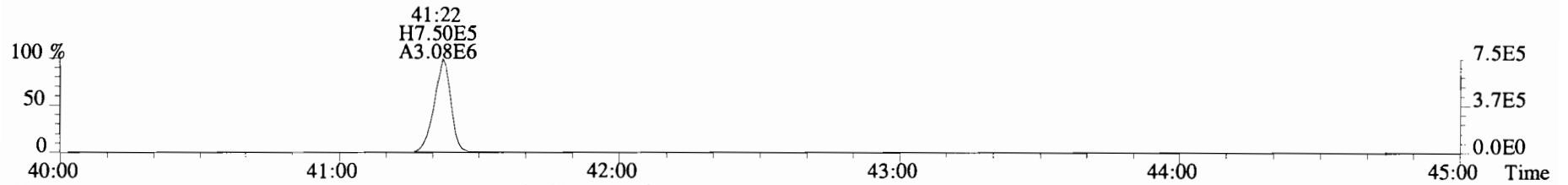
File:191108D1 #1-355 Acq: 8-NOV-2019 14:17:51 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BS1 OPR 10 Exp:OCDD\_DB5  
 407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



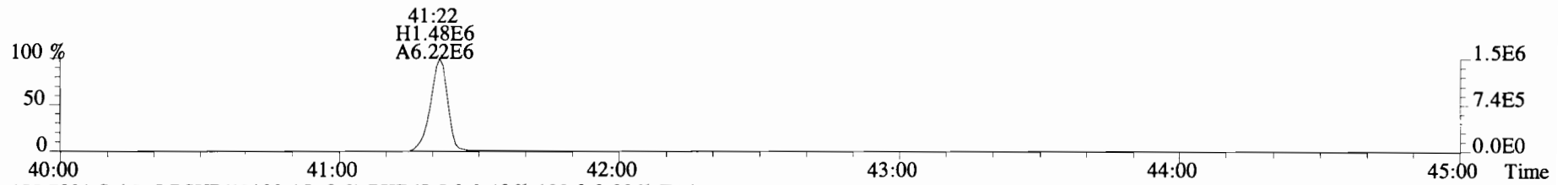
File:191108D1 #1-432 Acq: 8-NOV-2019 14:17:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:B9K0011-BS1 OPR 10 Exp:OCDD\_DB5  
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



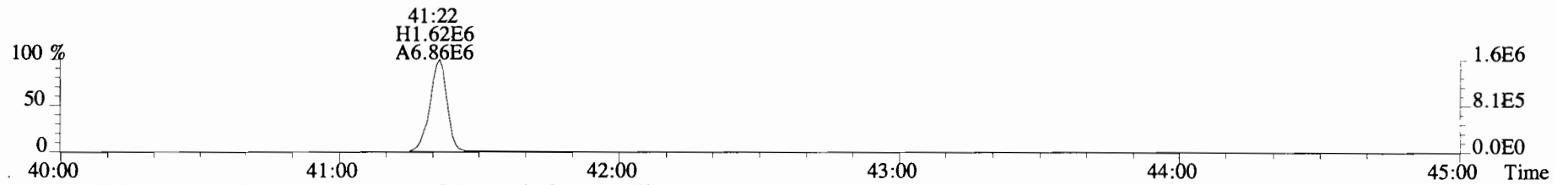
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



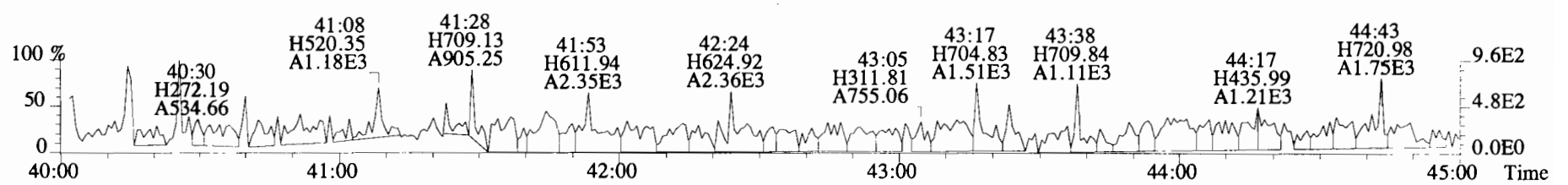
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)



Dataset: U:\VG11.PRO\Results\191218K1\191218K1-8.qld

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GRB 12/19/19

C1 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

Name: 191218K1\_8, Date: 18-Dec-2019, Time: 23:11:52, ID: 1903741-01 PDI-049SC-A-14-15-191015 14.25, Description: PDI-049SC-A-14-15-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			YES	0.925	10.121	26.18		1.00		YES			0.338	
2	2 1,2,3,7,8-PeCDD			YES	0.905	10.121	31.33		1.00		YES			0.237	
3	3 1,2,3,4,7,8-HxCDD			YES	1.07	10.121	34.66		1.00		YES			0.188	
4	4 1,2,3,6,7,8-HxCDD			YES	0.967	10.121	34.76		1.00		YES			0.191	
5	5 1,2,3,7,8,9-HxCDD			YES	0.978	10.121	35.07		1.00		YES			0.223	
6	6 1,2,3,4,6,7,8-HpCDD			YES	1.04	10.121	38.55		1.00		YES			0.348	
7	7 OCDD	1145.459	1.152	YES	0.972	10.121	41.81	41.82	1.00	1.00	NO	2.509		0.464	2.256
8	8 2,3,7,8-TCDF			YES	0.938	10.121	25.18		1.00		YES			0.175	
9	9 1,2,3,7,8-PeCDF			YES	0.976	10.121	30.02		1.00		YES			0.0844	
10	10 2,3,4,7,8-PeCDF			YES	1.00	10.121	31.02		1.00		YES			0.0857	
11	11 1,2,3,4,7,8-HxCDF			YES	1.24	10.121	33.79		1.00		YES			0.0749	
12	12 1,2,3,6,7,8-HxCDF			YES	1.10	10.121	33.91		1.00		YES			0.0782	
13	13 2,3,4,6,7,8-HxCDF			YES	1.18	10.121	34.52		1.00		YES			0.0740	
14	14 1,2,3,7,8,9-HxCDF			YES	1.07	10.121	35.36		1.00		YES			0.112	
15	15 1,2,3,4,6,7,8-HpCDF			YES	1.13	10.121	37.14		1.00		YES			0.101	
16	16 1,2,3,4,7,8,9-HpCDF			YES	1.26	10.121	39.16		1.00		YES			0.132	
17	17 OCDF			YES	1.10	10.121	42.00		1.00		YES			0.225	
18	18 13C-2,3,7,8-TCDD	140552.324	0.804	NO	1.05	10.121	26.15	26.15	1.03	1.03	NO	108.9	55.1	0.758	
19	19 13C-1,2,3,7,8-PeCDD	130868.445	0.610	NO	0.743	10.121	31.29	31.31	1.23	1.23	NO	143.1	72.4	1.16	
20	20 13C-1,2,3,4,7,8-HxCDD	103884.078	1.228	NO	0.646	10.121	34.65	34.65	1.01	1.01	NO	143.9	72.8	0.971	
21	21 13C-1,2,3,6,7,8-HxCDD	146678.719	1.366	NO	0.777	10.121	34.75	34.76	1.02	1.02	NO	169.1	85.6	0.808	
22	22 13C-1,2,3,7,8,9-HxCDD	135440.434	1.380	NO	0.659	10.121	35.02	35.03	1.02	1.03	NO	183.9	93.1	0.951	
23	23 13C-1,2,3,4,6,7,8-HpCDD	102510.027	1.136	NO	0.534	10.121	38.52	38.54	1.13	1.13	NO	171.8	87.0	1.34	
24	24 13C-OCDD	181305.977	0.893	NO	0.470	10.121	41.80	41.81	1.22	1.22	NO	345.2	87.3	2.34	
25	25 13C-2,3,7,8-TCDF	181273.477	0.701	NO	0.977	10.121	25.16	25.16	0.99	0.99	NO	91.88	46.5	0.861	
26	26 13C-1,2,3,7,8-PeCDF	182710.281	1.556	NO	0.778	10.121	29.98	30.00	1.18	1.18	NO	116.4	58.9	1.01	
27	27 13C-2,3,4,7,8-PeCDF	166296.723	1.653	NO	0.750	10.121	30.97	30.99	1.22	1.22	NO	109.9	55.6	1.05	
28	28 13C-1,2,3,4,7,8-HxCDF	153443.949	0.515	NO	0.845	10.121	33.79	33.79	0.99	0.99	NO	162.6	82.3	1.62	
29	29 13C-1,2,3,6,7,8-HxCDF	193746.665	0.545	NO	1.03	10.121	33.90	33.90	0.99	0.99	NO	169.0	85.5	1.33	
30	30 13C-2,3,4,6,7,8-HxCDF	173162.645	0.506	NO	0.893	10.121	34.48	34.48	1.01	1.01	NO	173.7	87.9	1.53	
31	31 13C-1,2,3,7,8,9-HxCDF	147820.211	0.467	NO	0.734	10.121	35.38	35.36	1.04	1.03	NO	180.3	91.2	1.87	

Dataset: U:\VG11.PRO\Results\191218K1\191218K1-8.qld

Last Altered: Thursday, December 19, 2019 14:53:29 Pacific Standard Time

Printed: Thursday, December 19, 2019 14:54:05 Pacific Standard Time

Name: 191218K1\_8, Date: 18-Dec-2019, Time: 23:11:52, ID: 1903741-01 PDI-049SC-A-14-15-191015 14.25, Description: PDI-049SC-A-14-15-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	149079.899	0.437	NO	0.754	10.121	37.09	37.10	1.09	1.09	NO	177.0	89.6	1.45	
33	33 13C-1,2,3,4,7,8,9-HpCDF	103657.568	0.448	NO	0.539	10.121	39.12	39.16	1.14	1.15	NO	172.2	87.2	2.02	
34	34 13C-OCDF	254441.797	0.857	NO	0.593	10.121	41.99	42.00	1.23	1.23	NO	384.5	97.3	1.69	
35	35 37Cl-2,3,7,8-TCDD	62531.977			1.07	10.121	26.17	26.17	1.03	1.03	NO	47.51	60.1	0.109	
36	36 13C-1,2,3,4-TCDD	243178.218	0.816	NO	1.00	10.121	25.45	25.45	1.00	1.00	NO	197.6	100	0.795	
37	37 13C-1,2,3,4-TCDF	398827.656	0.752	NO	1.00	10.121	23.55	23.54	1.00	1.00	NO	197.6	100	0.841	
38	38 13C-1,2,3,4,6,9-HxCDF	220669.243	0.516	NO	1.00	10.121	34.16	34.17	1.00	1.00	NO	197.6	100	1.37	
39	39 Total Tetra-Dioxins				0.925	10.121	24.62		0.00		NO			0.232	
40	40 Total Penta-Dioxins				0.905	10.121	29.96		0.00		NO			0.108	
41	41 Total Hexa-Dioxins				0.967	10.121	33.63		0.00		NO	0.0000		0.111	0.2204
42	42 Total Hepta-Dioxins				1.04	10.121	38.80		0.00		NO	0.0000		0.193	0.3182
43	43 Total Tetra-Furans				0.938	10.121	23.61		0.00		NO			0.0650	
44	44 1st Func. Penta-Furans				0.976	10.121	27.04		0.00		NO			0.0358	
45	45 Total Penta-Furans				0.976	10.121	29.27		0.00		NO			0.0281	
46	46 Total Hexa-Furans				1.18	10.121	33.56		0.00		NO			0.0442	
47	47 Total Hepta-Furans				1.13	10.121	37.83		0.00		NO	0.04965		0.0645	0.04965

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Name: 191218K1\_8, Date: 18-Dec-2019, Time: 23:11:52, ID: 1903741-01 PDI-049SC-A-14-15-191015 14.25, Description: PDI-049SC-A-14-15-191015

**Tetra-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

**Penta-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

**Hexa-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	0.00e0	0.00e0	2.376	YES	33.63	33.22	0.0000	0.05937
2	41 Total Hexa-Dioxins	0.00e0	0.00e0	1.185	NO	33.63	33.20	0.0000	0.1611

**Hepta-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	42 Total Hepta-Dioxins	0.00e0	1.03e5	0.752	YES	38.80	37.52	0.0000	0.3182

**Tetra-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

**Penta-Furans function 1**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191218K1\191218K1-8.qld

Last Altered: Thursday, December 19, 2019 14:53:29 Pacific Standard Time

Printed: Thursday, December 19, 2019 14:54:18 Pacific Standard Time

Name: 191218K1\_8, Date: 18-Dec-2019, Time: 23:11:52, ID: 1903741-01 PDI-049SC-A-14-15-191015 14.25, Description: PDI-049SC-A-14-15-191015

**Penta-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

**Hexa-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

**Hepta-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	47 Total Hepta-Furans	3.59e1	0.00e0	0.984	NO	37.83	37.69	0.04965	0.04965



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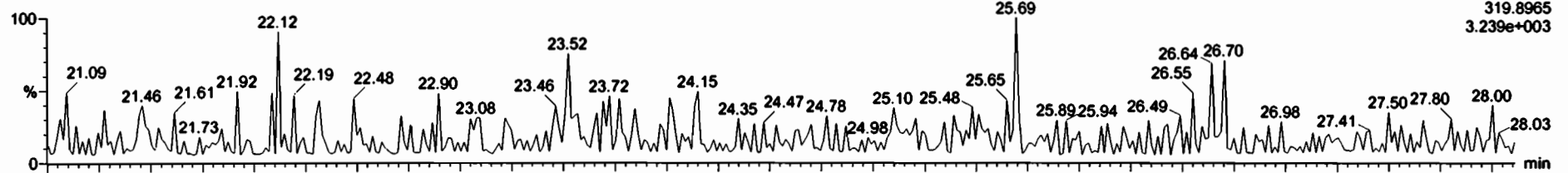
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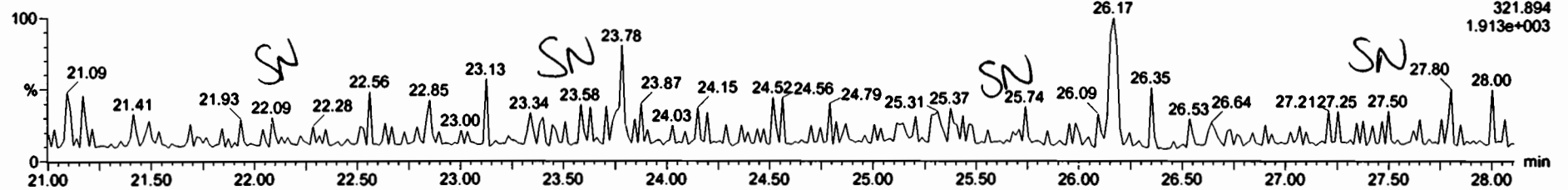
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2,3,7,8-TCDD

191218K1\_8

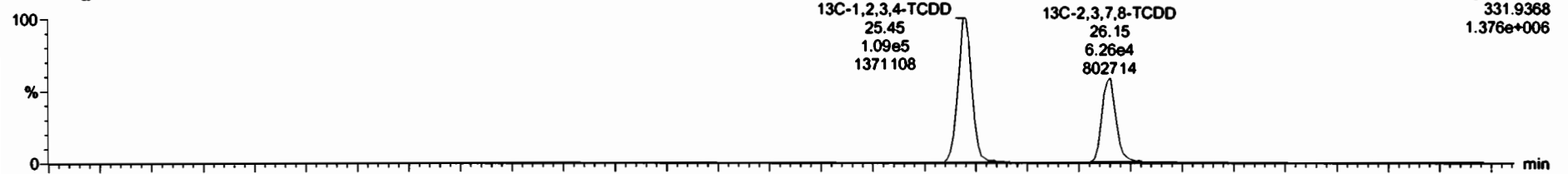


191218K1\_8

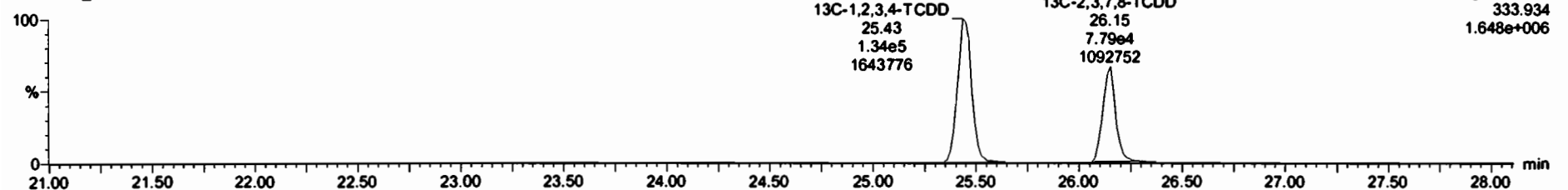


13C-2,3,7,8-TCDD

191218K1\_8



191218K1\_8



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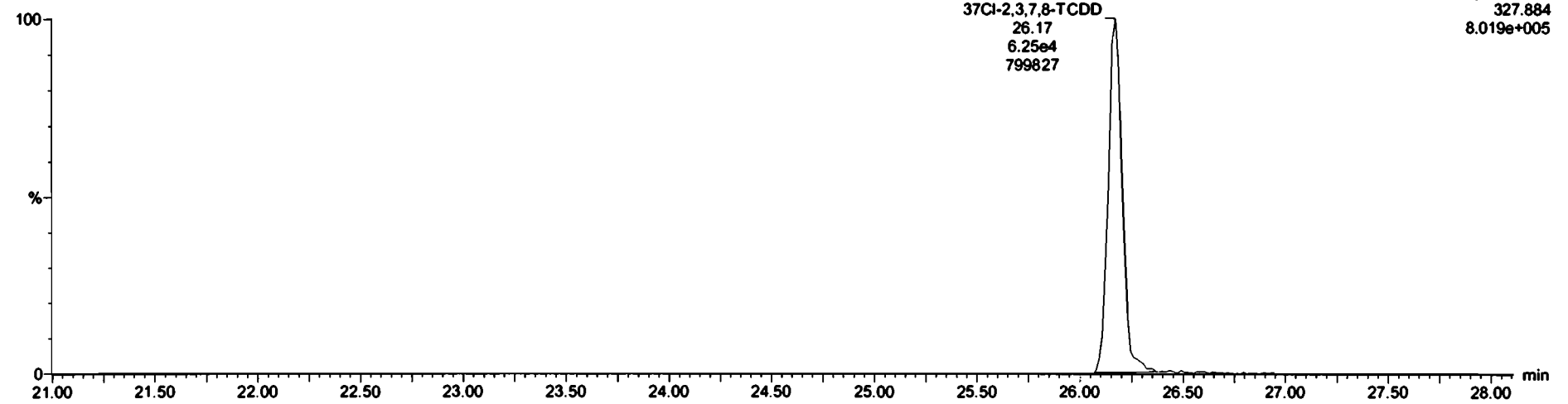
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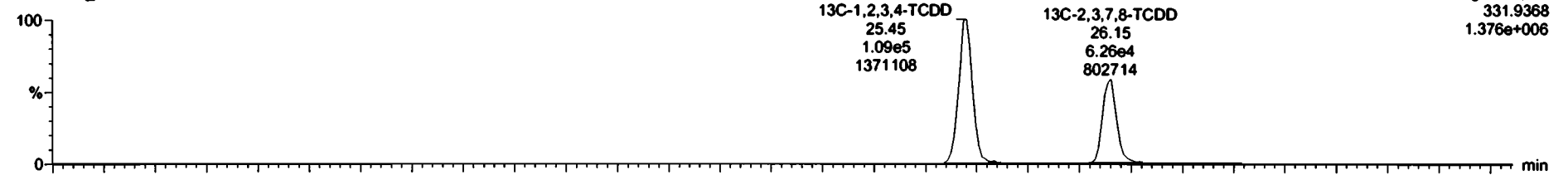
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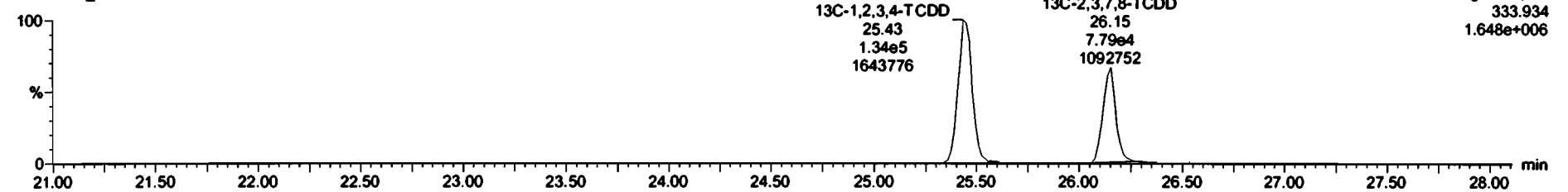


**13C-1,2,3,4-TCDD**

191218K1\_8



191218K1\_8

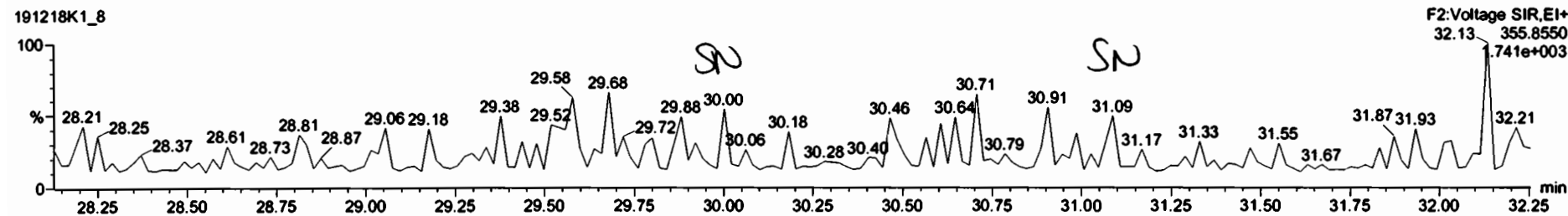
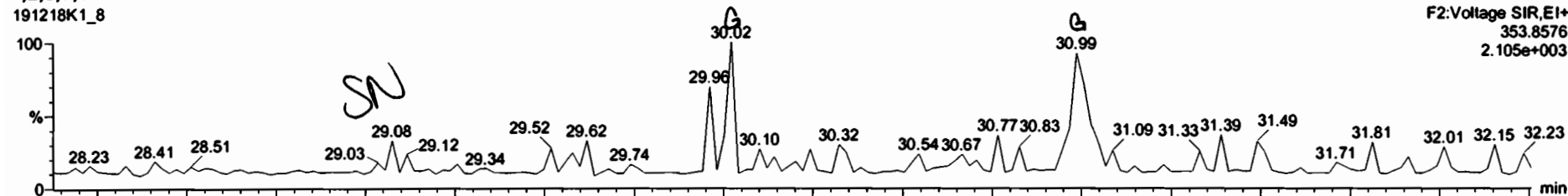


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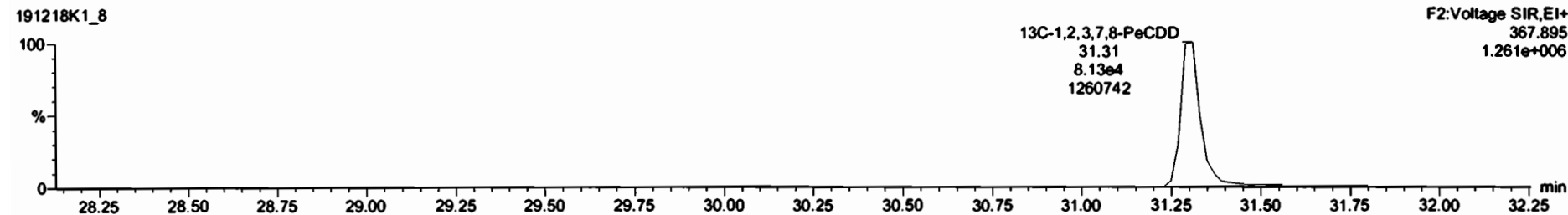
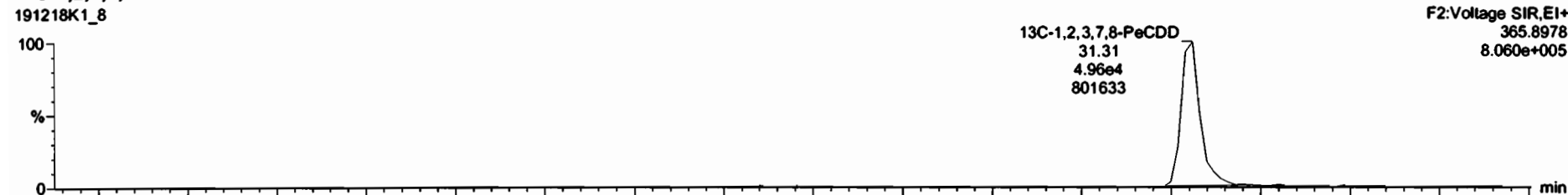
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1,2,3,7,8-PeCDD



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



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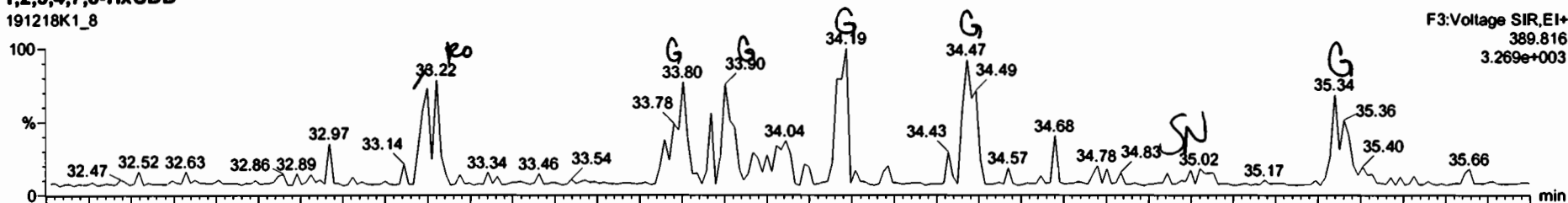
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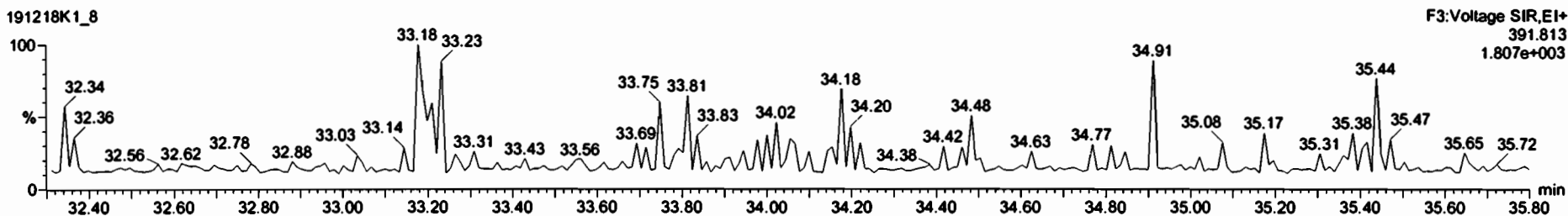
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1,2,3,4,7,8-HxCDD

191218K1\_8



191218K1\_8

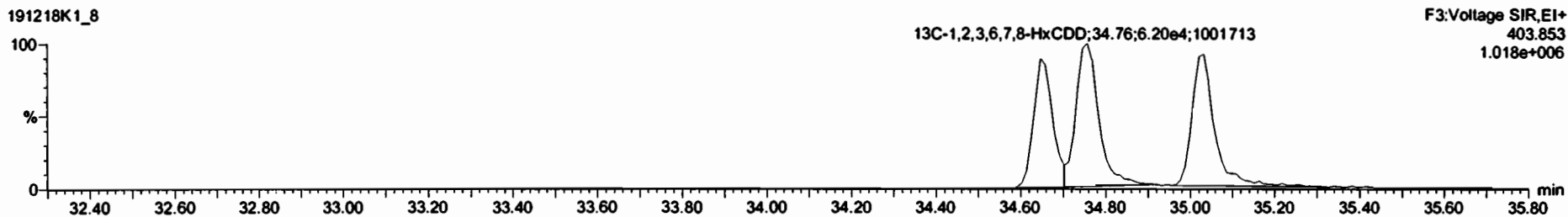


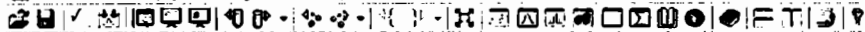
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191218K1\_8



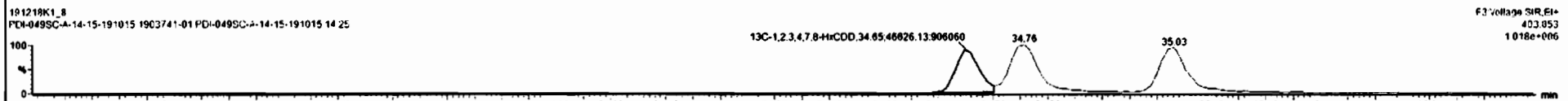
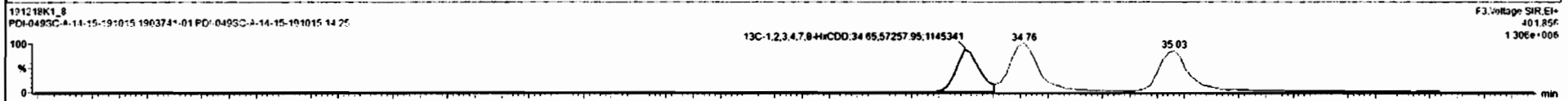
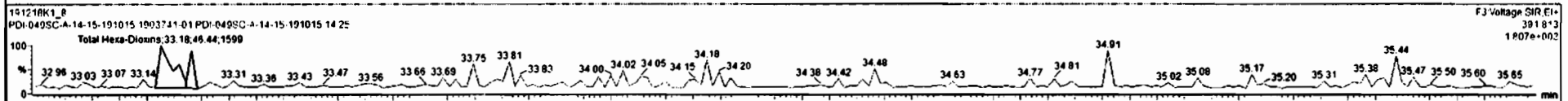
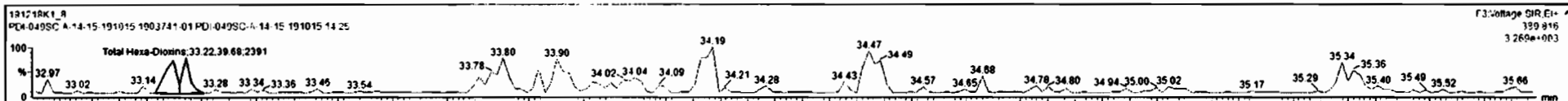
191218K1\_8





#	Name	Resp	RA	nly	RRF	whol	Pred.RT	RT	Pred.R.	RRT	RRT Fat	Conc.	%Res	DL	EMPC
39	Total Tetra-Dioxins				0.9249	10.121	24.82		0.000		NO			0.232	
40	Total Penta-Dioxins				0.9046	10.121	29.95		0.000		NO			0.108	
41	Total Hexa-Dioxins				0.9878	10.121	33.65		0.000		NO	0.0000		0.111	0.2204
42	Total Hepta-Dioxins				1.9375	10.121	38.90		0.000		NO			0.195	
43	Total Tetra-Furans				0.9378	10.121	23.81		0.000		NO			0.0650	
44	1st Func. Penta-Furans				0.9782	10.121	27.04		0.000		NO			0.0368	
45	Total Penta-Furans				0.9782	10.121	29.27		0.000		NO			0.0281	
46	Total Hexa-Furans				1.1808	10.121	33.56		0.000		NO			0.0442	
47	Total Hepta-Furans				1.1300	10.121	37.83		0.000		NO			0.0638	
48	PFK1														

#	Name	Pred.RT	RT	ret Resp	n2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	nly	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	33.20	5.503e1	4.644e1	1.240	1.18	NO	0.16107	0.00000
2	41 Total Hexa-Dioxins	33.63	33.22	3.968e1	1.670e1	1.240	2.36	YES	0.059374	0.00000



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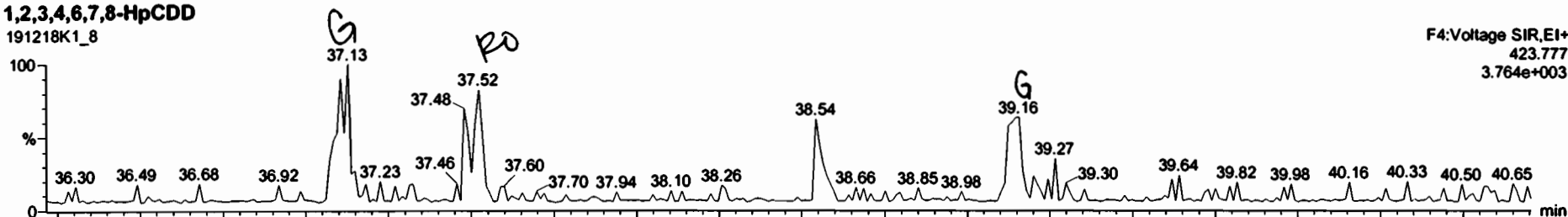
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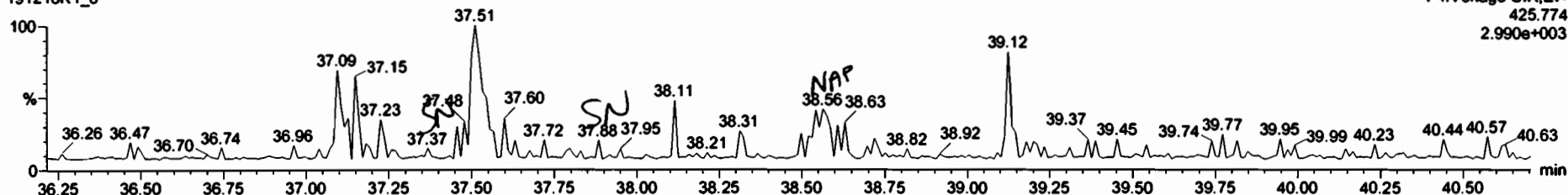
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1,2,3,4,6,7,8-HpCDD

191218K1\_8

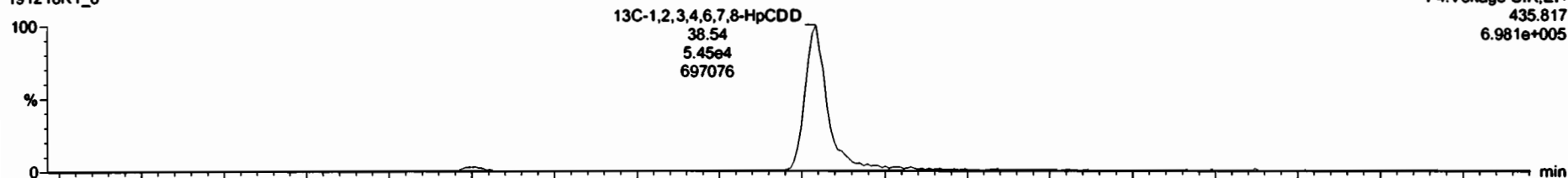


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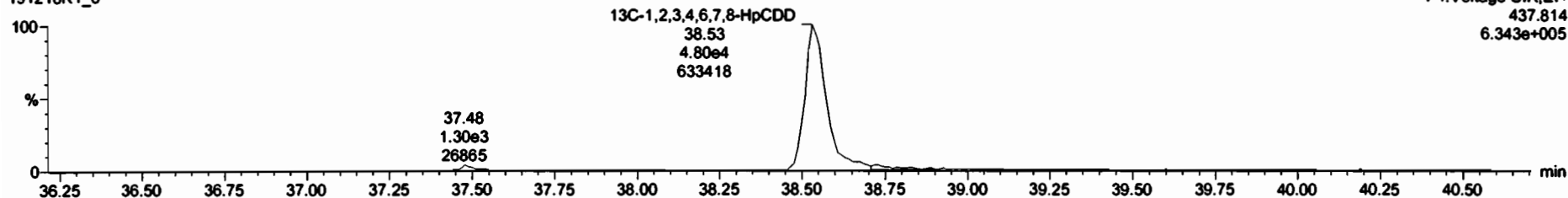


13C-1,2,3,4,6,7,8-HpCDD

191218K1\_8



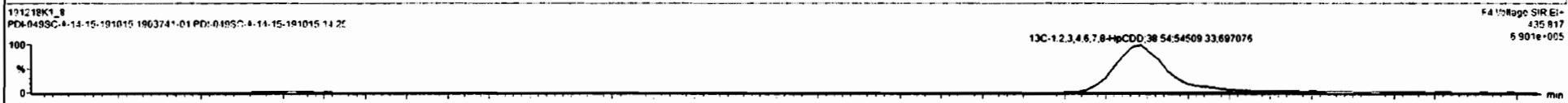
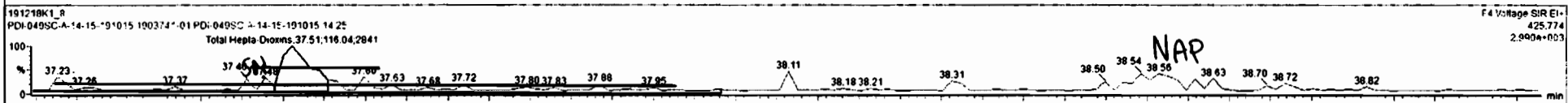
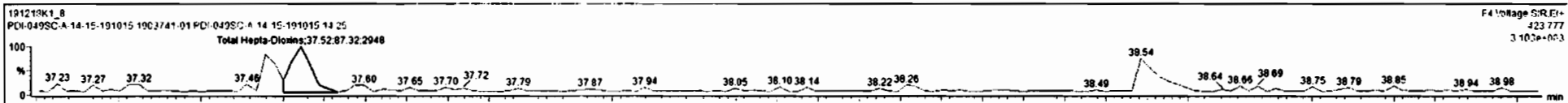
191218K1\_8





#	#	Name	Resp	RA	aly	RPF	wt/wt	Prod.RT	RT	Prod.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	39	Total Tetra-Dioxins				0.9249	18.121	24.82		0.000		NO			0.232	
40	40	Total Penta-Dioxins				0.9046	10.121	29.95		0.000		NO			0.108	
41	41	Total Hexa-Dioxins				0.9875	10.121	33.83		0.000		NO	0.0000		0.111	0.2204
42	42	Total Hepta-Dioxins				1.8278	18.121	38.88		0.000		NO	0.0000		0.193	0.3182
43	43	Total Tetra-Furans				0.9376	10.121	23.81		0.000		NO			0.0650	
44	44	1st Func. Penta-Furans				0.9782	10.121	27.84		0.000		NO			0.0358	
45	45	Total Penta-Furans				0.9782	10.121	29.27		0.000		NO			0.0281	
46	46	Total Hexa-Furans				1.1888	10.121	33.56		0.000		NO			0.0442	
47	47	Total Hepta-Furans				1.1360	10.121	37.83		0.000		NO			0.0638	
48	48	PFX1														

#	#	Name	Prod.RT	RT	net Resp	mg Resp	1% Ratio (Prod)	RA	aly	EMPC	Conc.
42	42	Total Hepta-Dioxins	38.80	37.52	8.732e1	1.168e2	1.040	0.75	YES	0.31822	0.00000



Custom Reporting: Select reports to generate

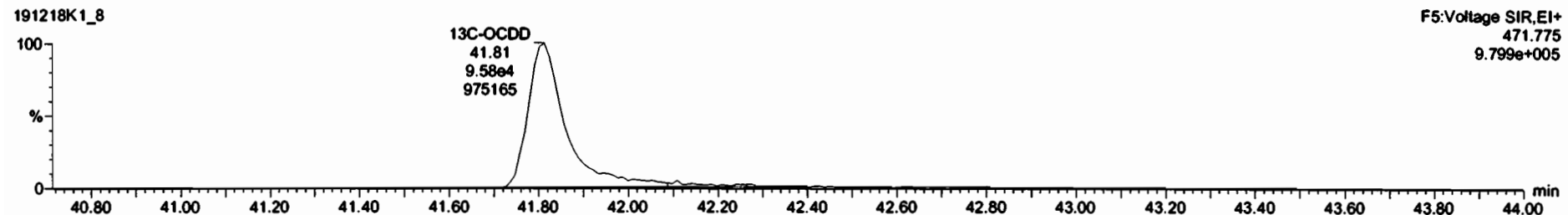
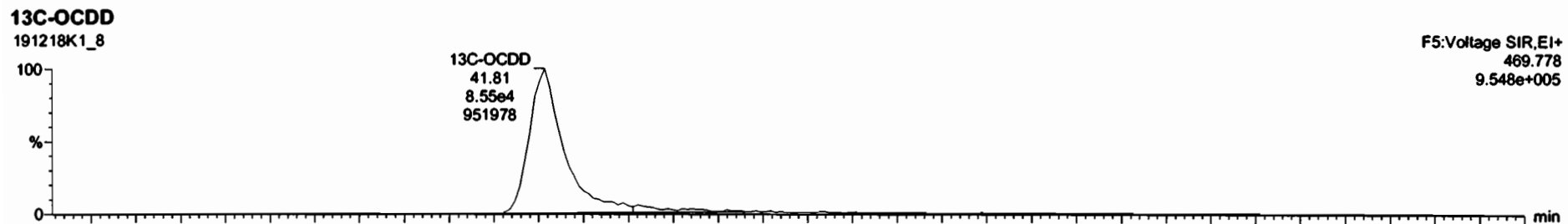
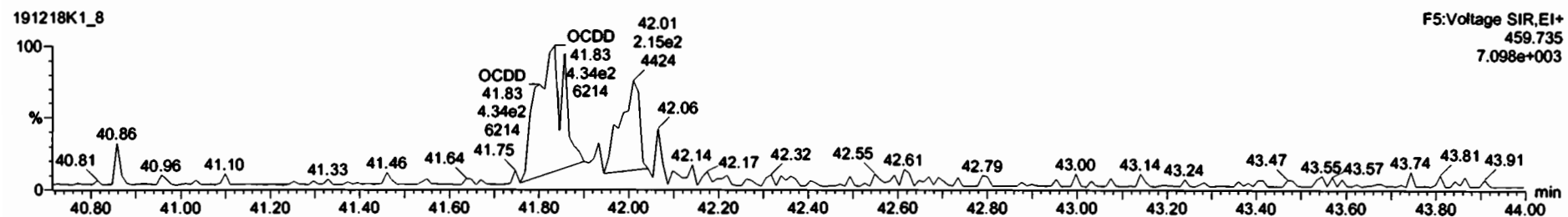
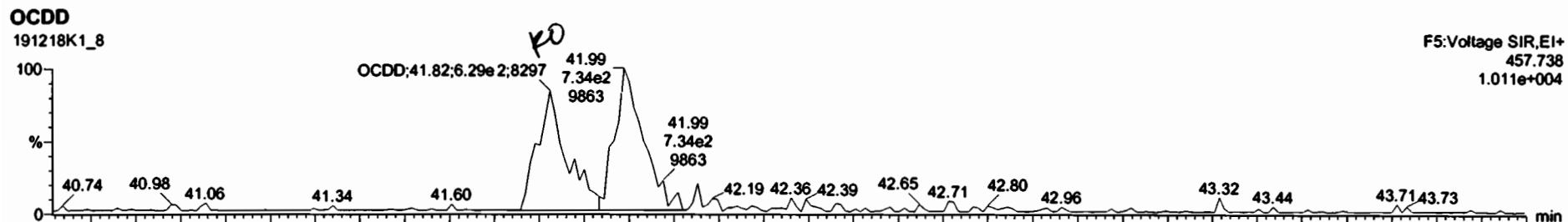
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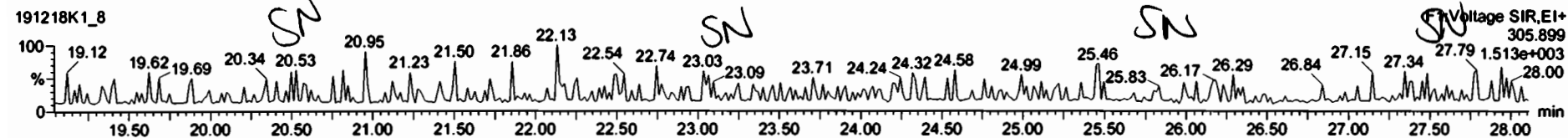
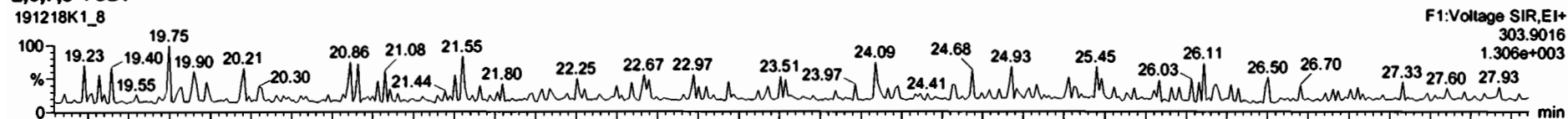
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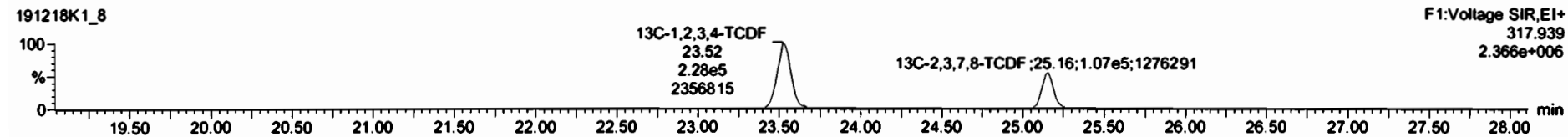
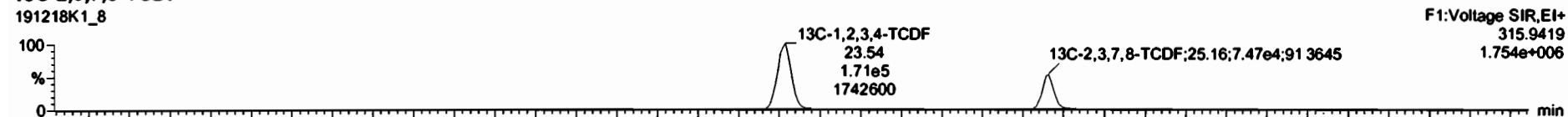
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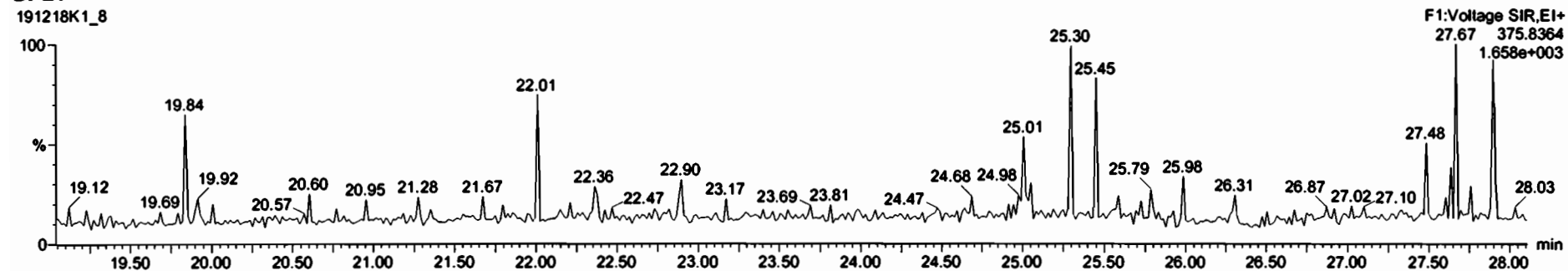
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### 13C-2,3,7,8-TCDF



### DPE1



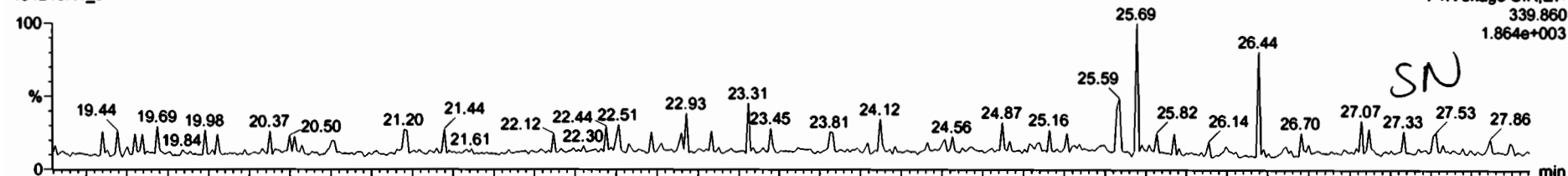
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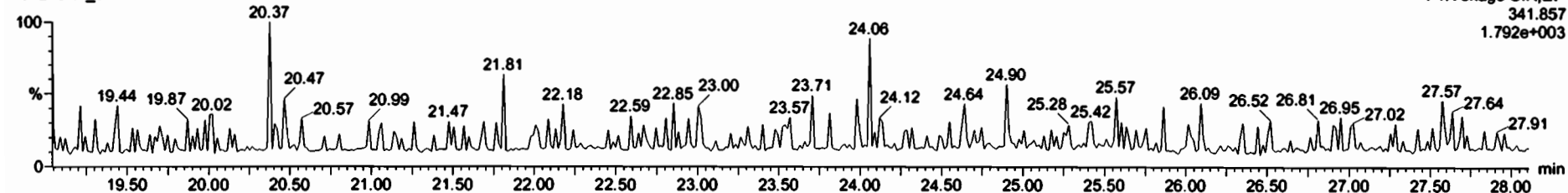
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1st Func. Penta-Furans

191218K1\_8

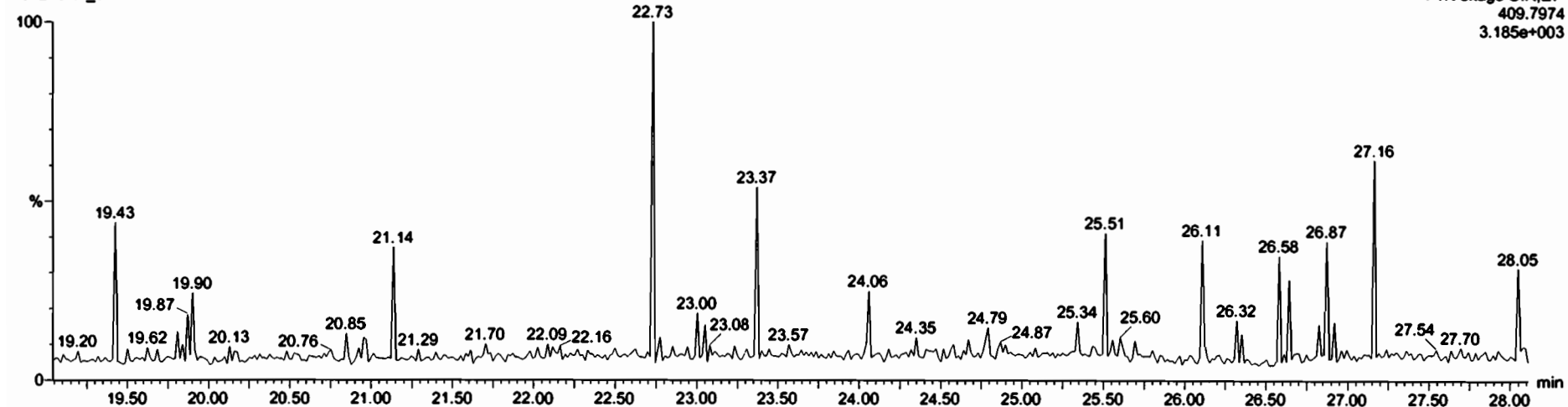


191218K1\_8



DPE6

191218K1\_8

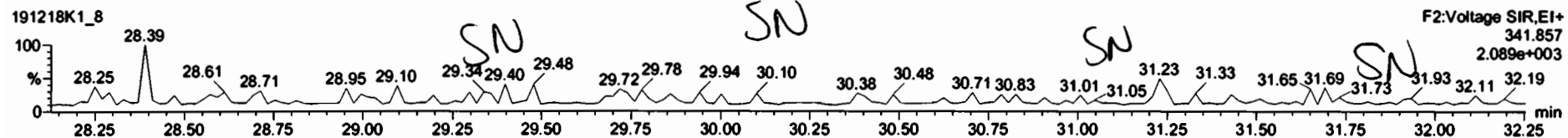
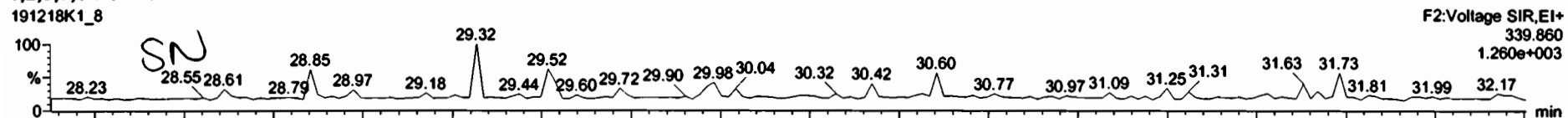


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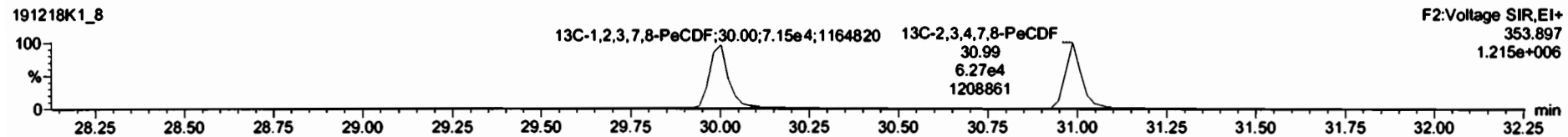
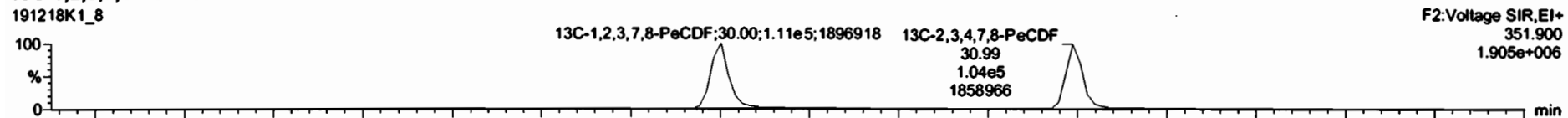
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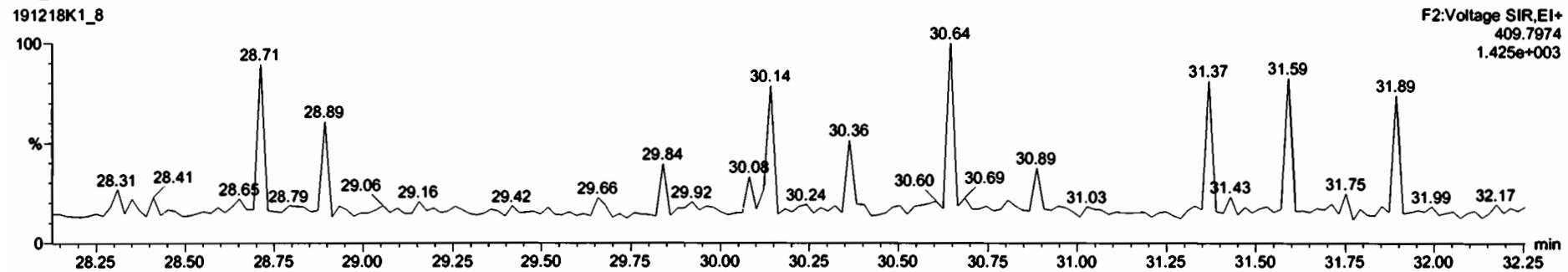
1,2,3,7,8-PeCDF



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



DPE2

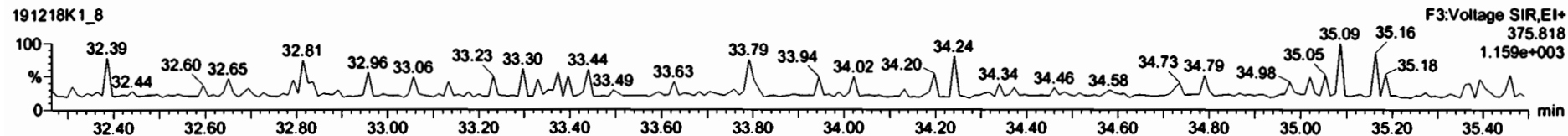
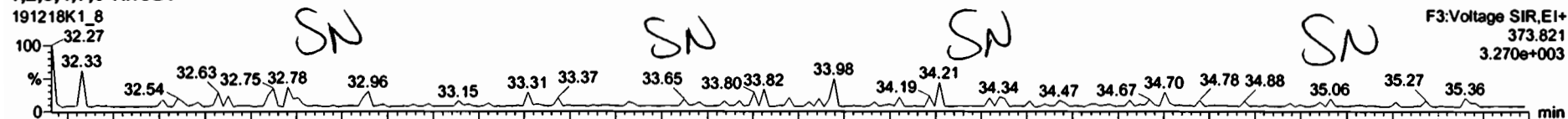


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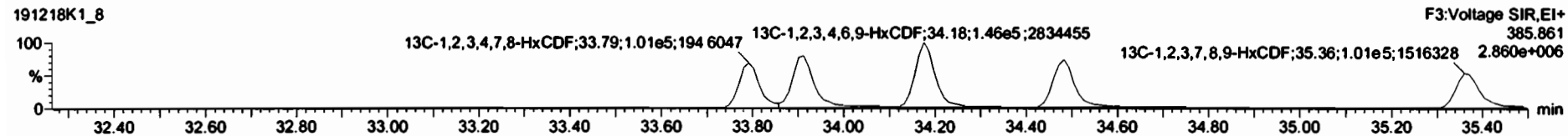
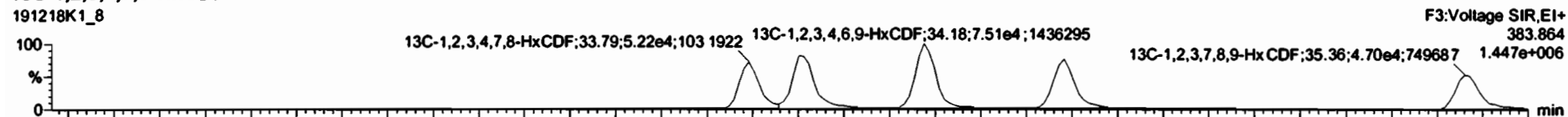
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Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

Name: 191218K1\_8, Date: 18-Dec-2019, Time: 23:11:52, ID: 1903741-01 PDI-049SC-A-14-15-191015 14.25, Description: PDI-049SC-A-14-15-191015

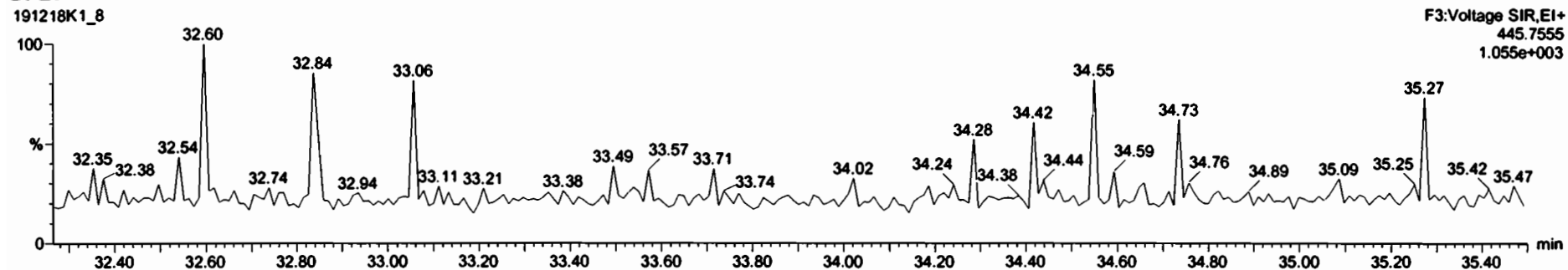
1,2,3,4,7,8-HxCDF



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



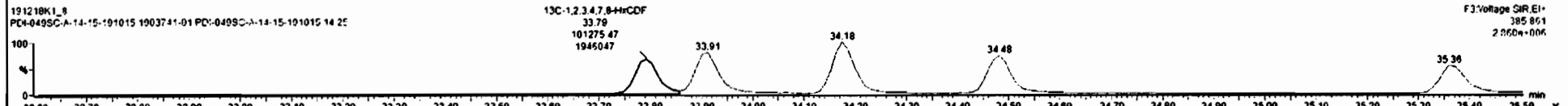
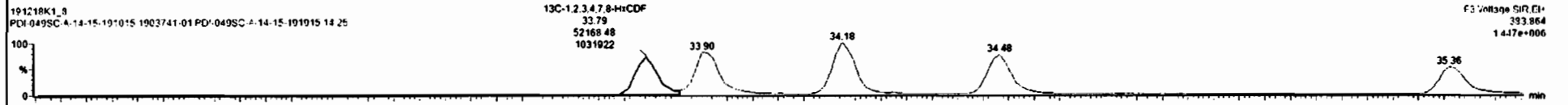
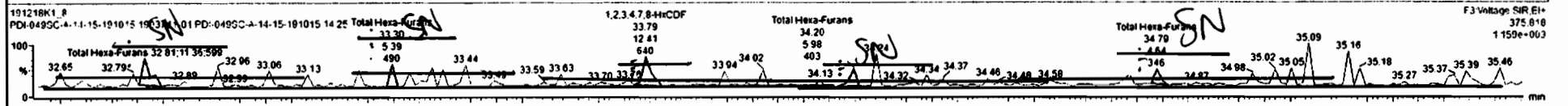
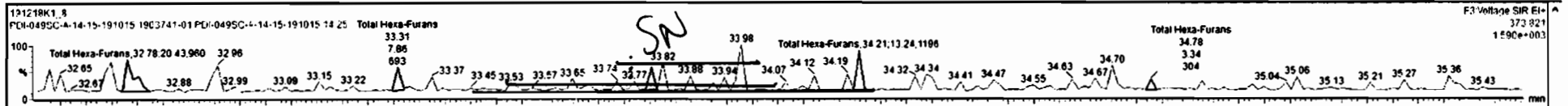
DPE3





#	Name	Resp	RA	nly	RPF	ndVol	Prod.RT	RT	Prod.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	10.121	24.62		0.000		NO			0.232	
40	Total Penta-Dioxins				0.9046	10.121	29.95		0.000		NO			0.106	
41	Total Hexa-Dioxins				0.9875	10.121	33.63		0.000		NO	0.0000		0.111	0.2204
42	Total Hepta-Dioxins				1.0375	10.121	36.60		0.000		NO	0.0000		0.193	0.3182
43	Total Tetra-Furans				0.9376	10.121	23.61		0.000		NO			0.0650	
44	1st Func. Penta-Furans				0.9762	10.121	27.04		0.000		NO			0.0350	
45	Total Penta-Furans				0.9762	10.121	29.27		0.000		NO			0.0281	
46	Total Hexa-Furans				1.1888	10.121	33.98		0.000		NO	0.0000		0.6442	0.67150
47	Total Hepta-Furans				1.1360	10.121	37.83		0.000		NO			0.0638	
48	PFK1														

#	Name	Prod.RT	RT	nd Resp	nd2 Resp	1 <sup>st</sup> Ratio (Prod)	RA	nly	EMPC	Conc.
1	1,2,3,4,7,8-HxCDF	33.79	33.90	7.722e0	1.241e1	1.240	0.62	YES	0.014447	0.00000
2	Total Hexa-Furans	33.58	32.78	2.043e1	1.138e1	1.240	1.50	YES	0.025486	0.00000
3	Total Hexa-Furans	33.58	33.31	7.861e0	5.391e0	1.240	1.46	YES	0.012100	0.00000
4	Total Hexa-Furans	33.58	34.21	1.324e1	5.977e0	1.240	2.22	YES	0.013415	0.00000
5	Total Hexa-Furans	33.58	34.78	3.343e0	4.841e0	1.240	0.72	YES	0.00805	0.00000



Custom Reporting: Select reports to generate

Type here to search

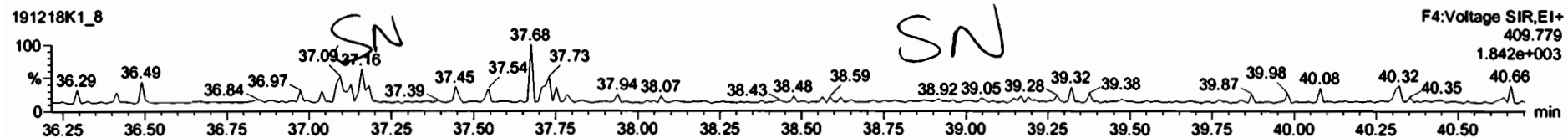
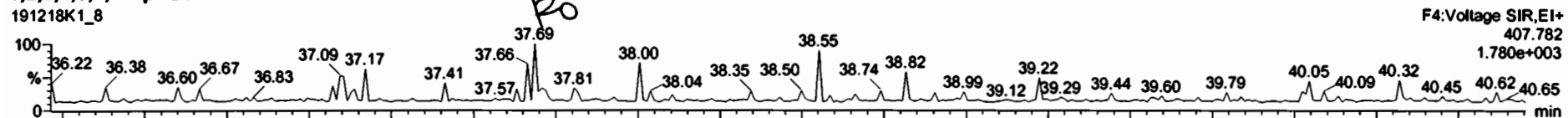


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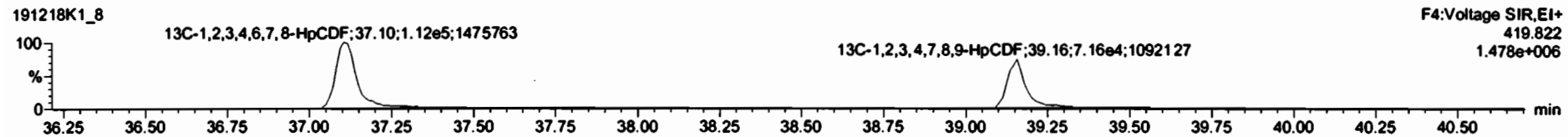
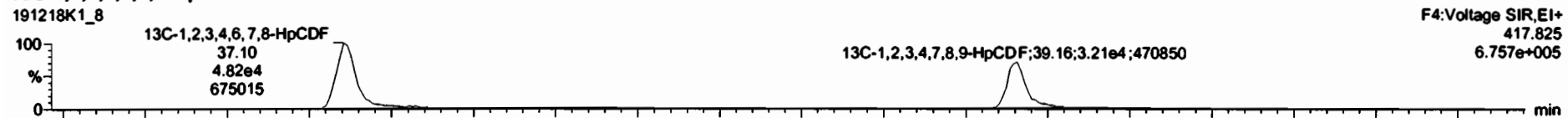
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Name: 191218K1\_8, Date: 18-Dec-2019, Time: 23:11:52, ID: 1903741-01 PDI-049SC-A-14-15-191015 14.25, Description: PDI-049SC-A-14-15-191015

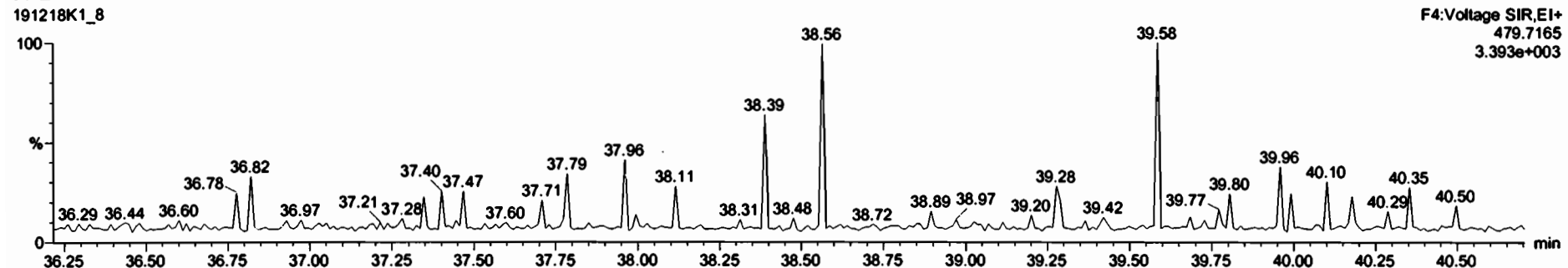
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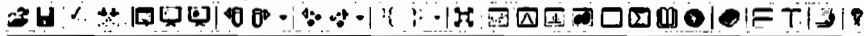


13C-1,2,3,4,6,7,8-HpCDF



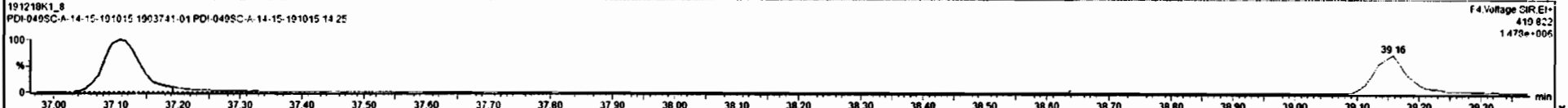
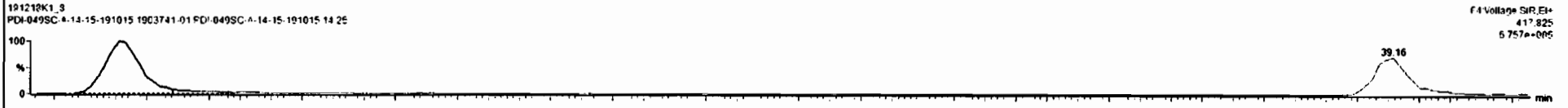
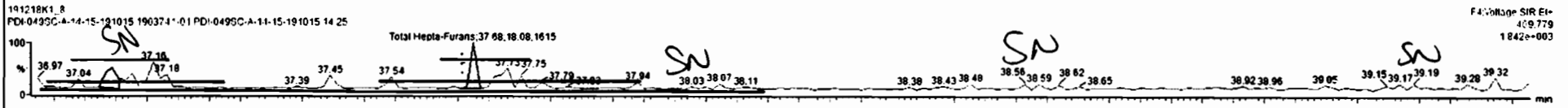
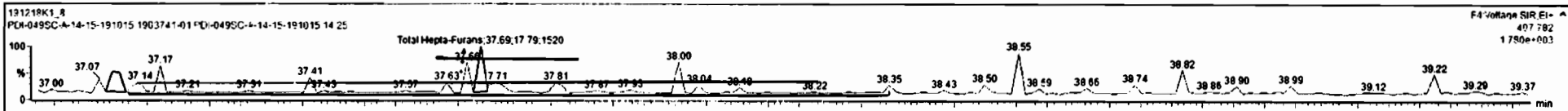
DPE4





#	Name	Resp	RA	aly	RF	wtVal	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc	%Rec	DL	EMPC
39	Total Tetra-Dozins				0.9249	10.121	24.62		0.000		NO			0.232	
40	Total Penta-Dozins				0.9046	10.121	29.96		0.000		NO			0.168	
41	Total Hexa-Dozins				0.9675	10.121	33.83		0.000		NO	0.0000		0.111	0.2284
42	Total Hepta-Dozins				1.0375	10.121	38.80		0.000		NO	0.0000		0.193	0.3182
43	Total Tetra-Furans				0.9376	10.121	23.61		0.000		NO			0.0650	
44	1st Func. Penta-Furans				0.9782	10.121	27.04		0.000		NO			0.0358	
45	Total Penta-Furans				0.9782	10.121	29.27		0.000		NO			0.0281	
46	Total Hexa-Furans				1.1806	10.121	33.56		0.000		NO	0.0000		0.0442	0.07150
47	Total Hepta-Furans				1.1366	10.121	37.88		0.000		NO	0.00481		0.0846	0.08481

#	Name	Pred.RT	RT	rel Resp	rel Resp	1 <sup>st</sup> Ratio (Pred)	RA	aly	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	37.14	37.09	1.440e1	1.558e1	1.040	0.82	NO	0.035168	0.035168
2	47 Total Hepta-Furans	37.83	37.69	1.779e1	1.808e1	1.040	0.96	NO	0.049645	0.049645

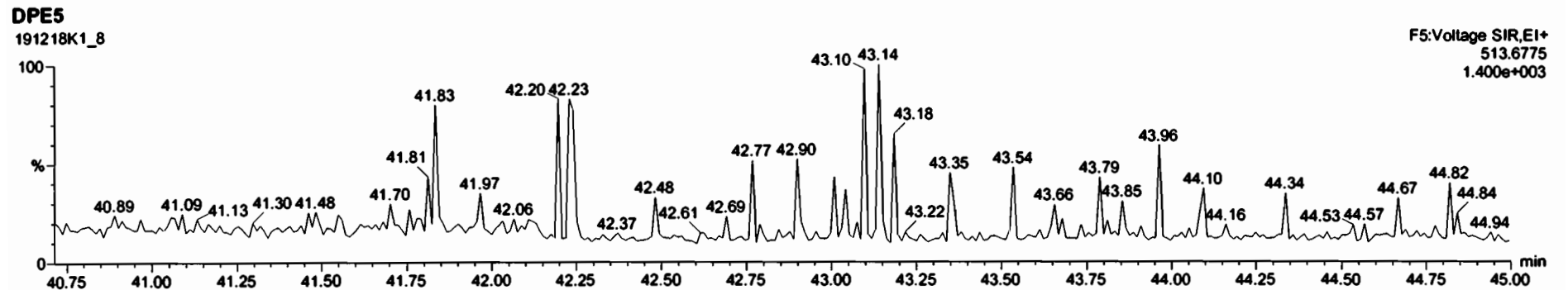
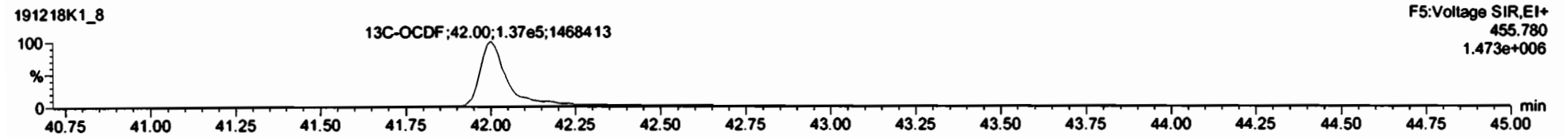
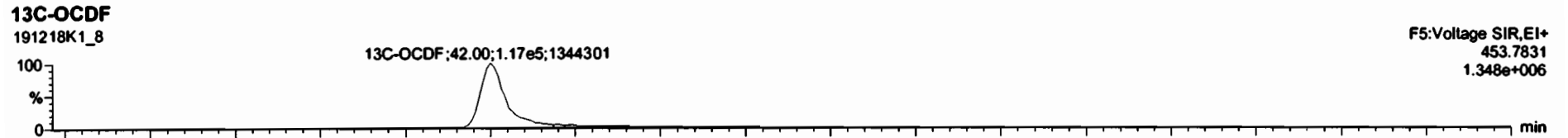
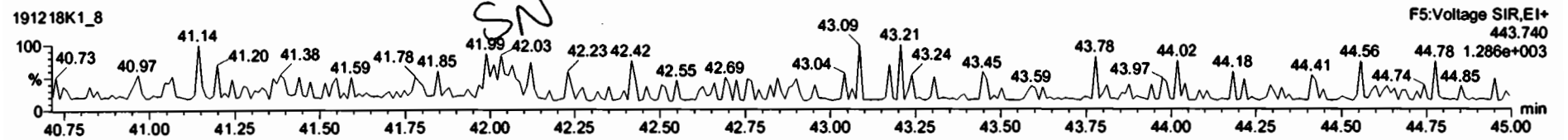
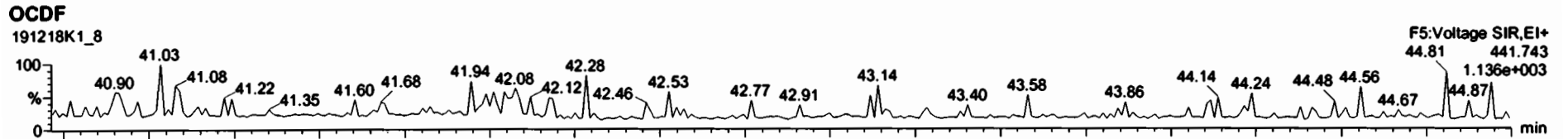




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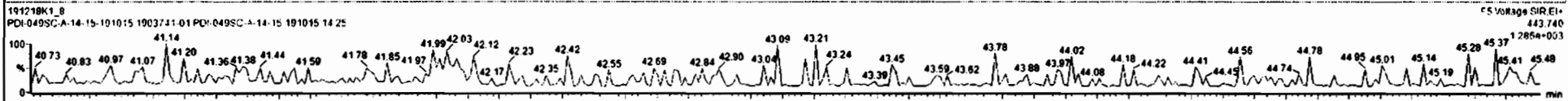
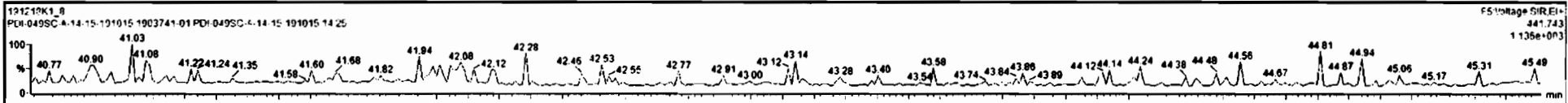
Name: 191218K1\_8, Date: 18-Dec-2019, Time: 23:11:52, ID: 1903741-01 PDI-049SC-A-14-15-191015 14.25, Description: PDI-049SC-A-14-15-191015





#	Name	Resp	RA	dy	RP	withal	Prod.RT	RT	Prod.R.	RRT	RRT Fob	Conc.	%Rec	DL	EMPC
9	1,2,3,7,8-PeCDF			YES	0.9782	10.121	30.02		1.001		YES			0.0844	
10	1,2,3,4,7,8-PeCDF			YES	1.0049	10.121	31.62		1.001		YES			0.0657	
11	1,2,3,4,7,8-HxCDF			YES	1.2434	10.121	33.79		1.000		YES			0.0749	
12	1,2,3,6,7,8-HxCDF			YES	1.0950	10.121	33.91		1.000		YES			0.0782	
13	1,2,3,4,6,7,8-HxCDF			YES	1.1888	10.121	34.52		1.001		YES			0.0740	
14	1,2,3,7,8,9-HxCDF			YES	1.0728	10.121	35.36		1.000		YES			0.112	
15	1,2,3,4,6,7,8-HpCDF			YES	1.1360	10.121	37.14		1.001		YES			0.0999	
16	1,2,3,4,7,8,9-HpCDF			YES	1.2899	10.121	39.16		1.000		YES			0.132	
17	1,2,3,4,6,7,8,9-HxCDF			YES	1.1680	10.121	42.00		1.000		YES			0.228	
18	1,2,3,7,8-TCDF	1.41e5	0.80	NO	1.0480	10.121	26.15	26.15	1.027	1.028	NO	100.0	55.1	0.750	

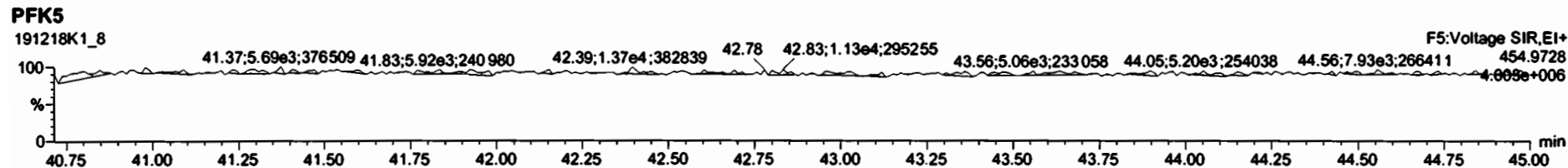
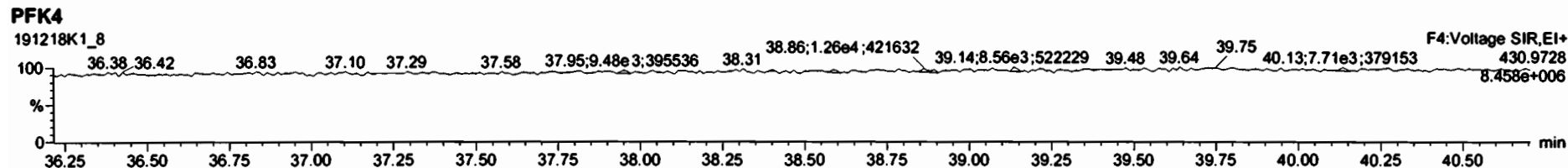
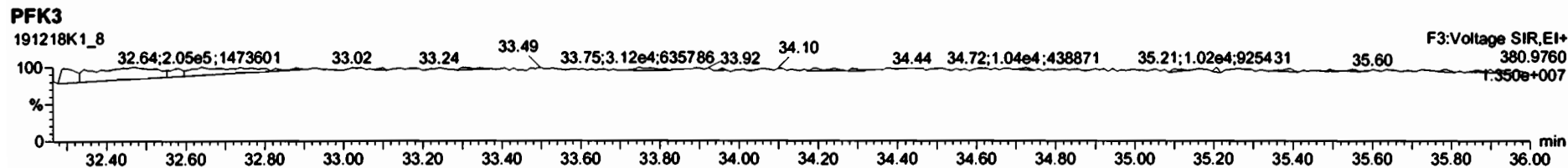
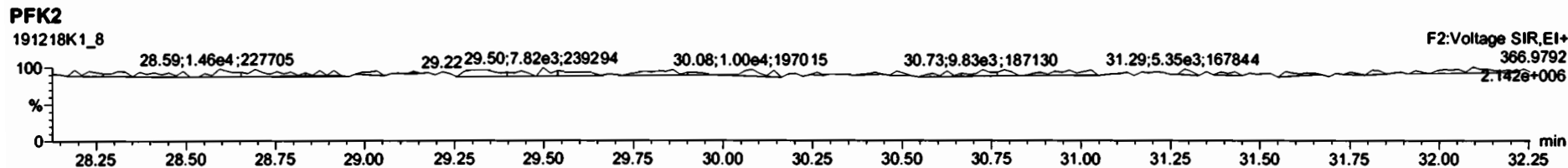
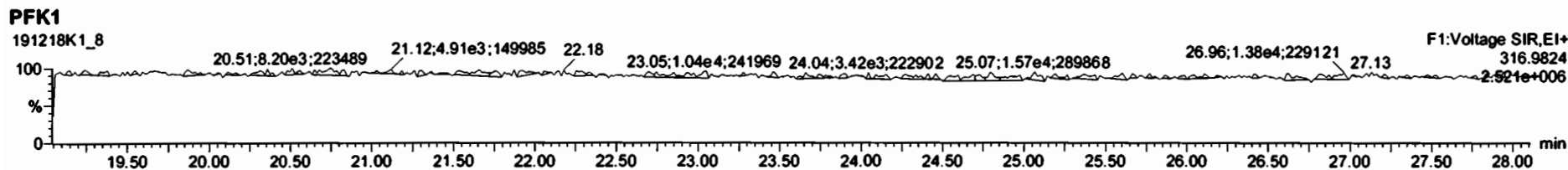
#	Name	Prod.RT	RT	wt Resp	nl2 Resp	1st Ratio (Prod)	RA	dy	EMPC	Conc.
1										



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Last Altered: Thursday, December 19, 2019 07:42:21 Pacific Standard Time  
Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

Name: 191218K1\_8, Date: 18-Dec-2019, Time: 23:11:52, ID: 1903741-01 PDI-049SC-A-14-15-191015 14.25, Description: PDI-049SC-A-14-15-191015



Dataset: U:\VG11.PRO\Results\191218K1\191218K1-9.qld

Last Altered: Thursday, December 19, 2019 15:17:11 Pacific Standard Time

Printed: Thursday, December 19, 2019 15:22:21 Pacific Standard Time

GBB 12/19/19

CT 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

Name: 191218K1\_9, Date: 18-Dec-2019, Time: 23:59:08, ID: 1903741-02 PDI-049SC-A-15-15.5-191015 13.55, Description: PDI-049SC-A-15-15.5-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			YES	0.925	10.011	26.17		1.00		YES			0.158	
2	2 1,2,3,7,8-PeCDD			YES	0.905	10.011	31.31		1.00		YES			0.123	
3	3 1,2,3,4,7,8-HxCDD			YES	1.07	10.011	34.66		1.00		YES			0.196	
4	4 1,2,3,6,7,8-HxCDD			YES	0.967	10.011	34.75		1.00		YES			0.180	
5	5 1,2,3,7,8,9-HxCDD			YES	0.978	10.011	35.06		1.00		YES			0.220	
6	6 1,2,3,4,6,7,8-HpCDD	678.201	0.937	NO	1.04	10.011	38.55	38.56	1.00	1.00	NO	0.9593		0.360	0.9593
7	7 OCDD	4805.740	0.928	NO	0.972	10.011	41.79	41.80	1.00	1.00	NO	8.919		0.610	8.919
8	8 2,3,7,8-TCDF			YES	0.938	10.011	25.18		1.00		YES			0.0755	
9	9 1,2,3,7,8-PeCDF			YES	0.976	10.011	30.00		1.00		YES			0.0622	
10	10 2,3,4,7,8-PeCDF	29.720	0.815	YES	1.00	10.011	31.02	31.01	1.00	1.00	NO	0.01719		0.0248	0.01270
11	11 1,2,3,4,7,8-HxCDF			YES	1.24	10.011	33.78		1.00		YES			0.0512	
12	12 1,2,3,6,7,8-HxCDF			YES	1.10	10.011	33.91		1.00		YES			0.0549	
13	13 2,3,4,6,7,8-HxCDF			YES	1.18	10.011	34.51		1.00		YES			0.0606	
14	14 1,2,3,7,8,9-HxCDF			YES	1.07	10.011	35.36		1.00		YES			0.0740	
15	15 1,2,3,4,6,7,8-HpCDF	139.543	0.949	NO	1.13	10.011	37.14	37.13	1.00	1.00	NO	0.1117		0.0302	0.1117
16	16 1,2,3,4,7,8,9-HpCDF			YES	1.26	10.011	39.16		1.00		YES			0.123	
17	17 OCDF			YES	1.10	10.011	42.00		1.00		YES			0.161	
18	18 13C-2,3,7,8-TCDD	339282.391	0.743	NO	1.05	10.011	26.15	26.14	1.03	1.03	NO	177.3	88.8	0.508	
19	19 13C-1,2,3,7,8-PeCDD	247117.742	0.611	NO	0.743	10.011	31.29	31.29	1.23	1.23	NO	182.4	91.3	0.747	
20	20 13C-1,2,3,4,7,8-HxCDD	168226.023	1.278	NO	0.646	10.011	34.65	34.65	1.01	1.01	NO	159.1	79.6	0.958	
21	21 13C-1,2,3,6,7,8-HxCDD	234874.118	1.180	NO	0.777	10.011	34.75	34.75	1.02	1.02	NO	184.8	92.5	0.797	
22	22 13C-1,2,3,7,8,9-HxCDD	189760.211	1.087	NO	0.659	10.011	35.02	35.02	1.02	1.02	NO	175.8	88.0	0.939	
23	23 13C-1,2,3,4,6,7,8-HpCDD	136135.797	1.062	NO	0.534	10.011	38.52	38.54	1.13	1.13	NO	155.7	78.0	0.932	
24	24 13C-OCDD	221532.351	0.893	NO	0.470	10.011	41.80	41.79	1.22	1.22	NO	287.8	72.0	1.56	
25	25 13C-2,3,7,8-TCDF	493800.876	0.716	NO	0.977	10.011	25.16	25.16	0.99	0.99	NO	169.2	84.7	0.612	
26	26 13C-1,2,3,7,8-PeCDF	357496.094	1.501	NO	0.778	10.011	29.98	29.98	1.18	1.18	NO	154.0	77.1	0.789	
27	27 13C-2,3,4,7,8-PeCDF	343765.547	1.492	NO	0.750	10.011	30.97	30.99	1.22	1.22	NO	153.6	76.9	0.818	
28	28 13C-1,2,3,4,7,8-HxCDF	232808.196	0.538	NO	0.845	10.011	33.79	33.78	0.99	0.99	NO	168.3	84.3	1.33	
29	29 13C-1,2,3,6,7,8-HxCDF	289678.781	0.560	NO	1.03	10.011	33.90	33.90	0.99	0.99	NO	172.4	86.3	1.10	
30	30 13C-2,3,4,6,7,8-HxCDF	246765.406	0.549	NO	0.893	10.011	34.48	34.47	1.01	1.01	NO	168.9	84.5	1.26	
31	31 13C-1,2,3,7,8,9-HxCDF	227278.446	0.513	NO	0.734	10.011	35.38	35.36	1.04	1.03	NO	189.1	94.7	1.53	

Dataset: U:\VG11.PRO\Results\191218K1\191218K1-9.qld

Last Altered: Thursday, December 19, 2019 15:17:11 Pacific Standard Time  
Printed: Thursday, December 19, 2019 15:22:21 Pacific Standard Time

Name: 191218K1\_9, Date: 18-Dec-2019, Time: 23:59:08, ID: 1903741-02 PDI-049SC-A-15-15.5-191015 13.55, Description: PDI-049SC-A-15-15.5-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	220958.562	0.443	NO	0.754	10.011	37.09	37.10	1.09	1.09	NO	179.0	89.6	1.11	
33	33 13C-1,2,3,4,7,8,9-HpCDF	143129.363	0.442	NO	0.539	10.011	39.12	39.16	1.14	1.15	NO	162.3	81.2	1.56	
34	34 13C-OCDF	318773.375	0.890	NO	0.593	10.011	41.99	42.00	1.23	1.23	NO	328.7	82.3	1.30	
35	35 37Cl-2,3,7,8-TCDD	132975.844			1.07	10.011	26.17	26.17	1.03	1.03	NO	68.17	85.3	0.131	
36	36 13C-1,2,3,4-TCDD	364376.250	0.795	NO	1.00	10.011	25.45	25.45	1.00	1.00	NO	199.8	100	0.532	
37	37 13C-1,2,3,4-TCDF	596400.094	0.755	NO	1.00	10.011	23.55	23.54	1.00	1.00	NO	199.8	100	0.599	
38	38 13C-1,2,3,4,6,9-HxCDF	326945.024	0.569	NO	1.00	10.011	34.16	34.17	1.00	1.00	NO	199.8	100	1.13	
39	39 Total Tetra-Dioxins				0.925	10.011	24.62		0.00		NO	0.0000		0.0995	0.06578
40	40 Total Penta-Dioxins				0.905	10.011	29.96		0.00		NO	0.1231		0.0392	0.2119
41	41 Total Hexa-Dioxins				0.967	10.011	33.63		0.00		NO	0.0000		0.103	0.5610
42	42 Total Hepta-Dioxins				1.04	10.011	38.80		0.00		NO	2.552		0.360	2.552
43	43 Total Tetra-Furans				0.938	10.011	23.61		0.00		NO			0.0312	
44	44 1st Func. Penta-Furans				0.976	10.011	27.04		0.00		NO			0.0174	
45	45 Total Penta-Furans				0.976	10.011	29.27		0.00		NO	0.0000		0.0260	0.01270
46	46 Total Hexa-Furans				1.18	10.011	33.56		0.00		NO			0.0338	
47	47 Total Hepta-Furans				1.13	10.011	37.83		0.00		NO	0.2428		0.0393	0.2428

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Last Altered: Thursday, December 19, 2019 15:17:11 Pacific Standard Time

Printed: Thursday, December 19, 2019 15:22:32 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\ldb5\_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191218K1\_9, Date: 18-Dec-2019, Time: 23:59:08, ID: 1903741-02 PDI-049SC-A-15-15.5-191015 13.55, Description: PDI-049SC-A-15-15.5-191015

**Tetra-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	0.00e0	3.39e5	1.218	YES	24.62	23.77	0.0000	0.06578

**Penta-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	1.38e2	2.47e5	0.722	NO	29.96	29.08	0.1231	0.1231
2	40 Total Penta-Dioxins	0.00e0	2.47e5	0.475	YES	29.96	29.56	0.0000	0.08876

**Hexa-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	0.00e0	0.00e0	1.449	YES	33.63	33.20	0.0000	0.5610

**Hepta-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	6.78e2	1.36e5	0.937	NO	38.55	38.56	0.9593	0.9593
2	42 Total Hepta-Dioxins	1.13e3	1.36e5	1.116	NO	38.80	37.51	1.593	1.593

**Tetra-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

**Penta-Furans function 1**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Dataset: U:\VG11.PRO\Results\191218K1\191218K1-9.qld

Last Altered: Thursday, December 19, 2019 15:17:11 Pacific Standard Time  
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Name: 191218K1\_9, Date: 18-Dec-2019, Time: 23:59:08, ID: 1903741-02 PDI-049SC-A-15-15.5-191015 13.55, Description: PDI-049SC-A-15-15.5-191015

**Penta-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	10 2,3,4,7,8-PeCDF	2.97e1	3.44e5	0.815	YES	31.02	31.01	0.0000	0.01270

**Hexa-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

**Hepta-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	47 Total Hepta-Furans	1.35e2	0.00e0	1.060	NO	37.83	37.71	0.1312	0.1312
2	15 1,2,3,4,6,7,8-HpCDF	1.40e2	2.21e5	0.949	NO	37.14	37.13	0.1117	0.1117

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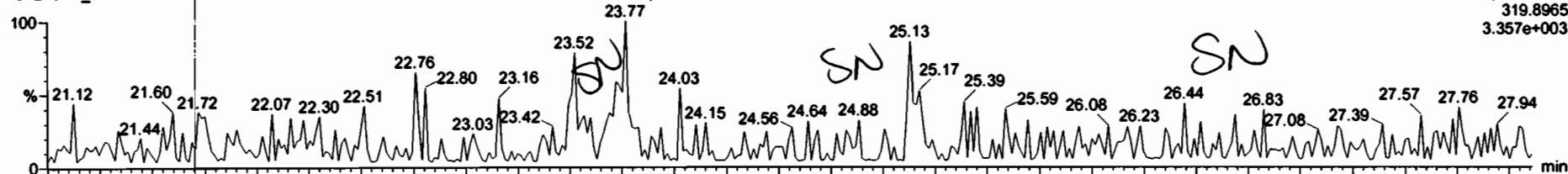
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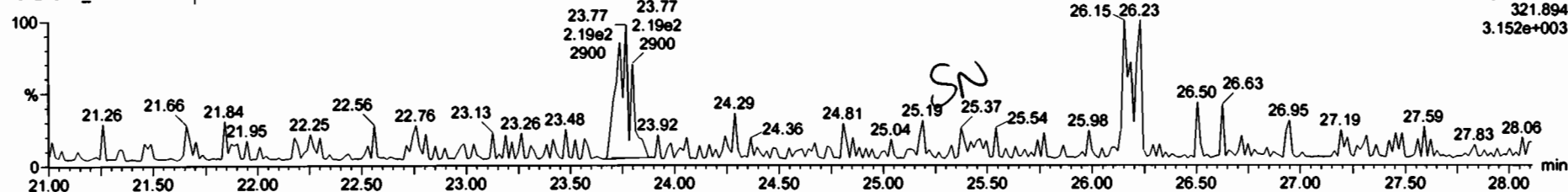
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2,3,7,8-TCDD

191218K1\_9

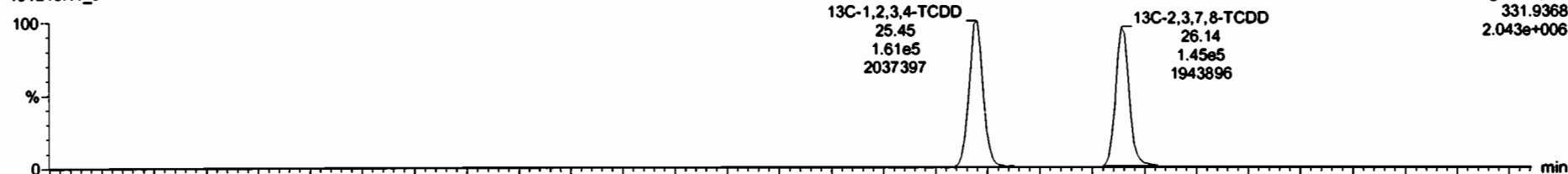


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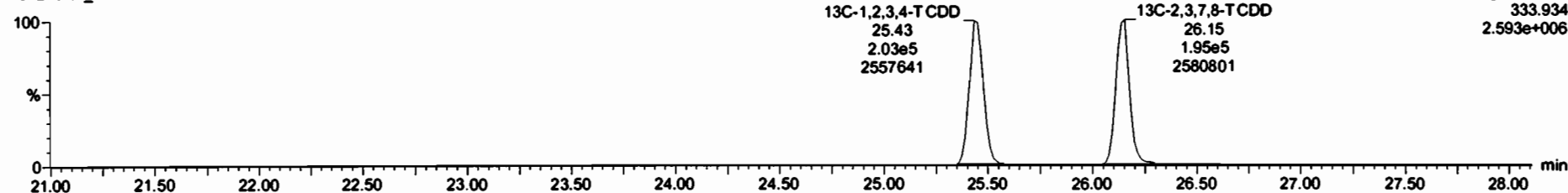


13C-2,3,7,8-TCDD

191218K1\_9



191218K1\_9

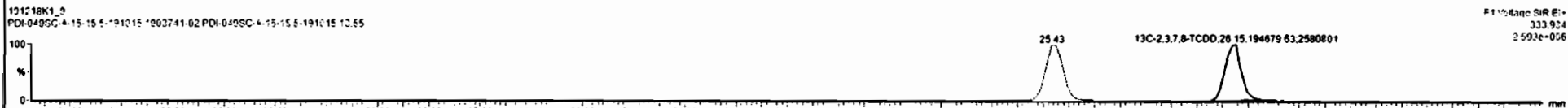
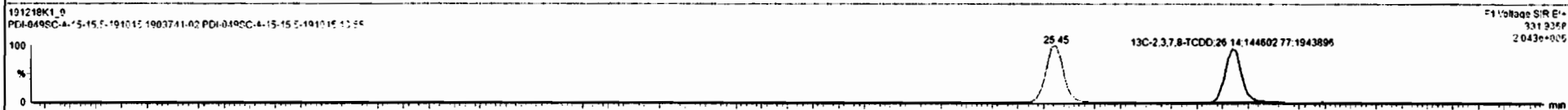
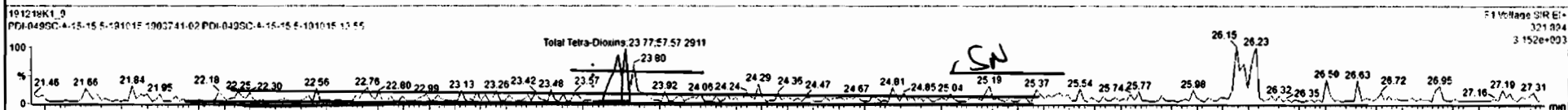
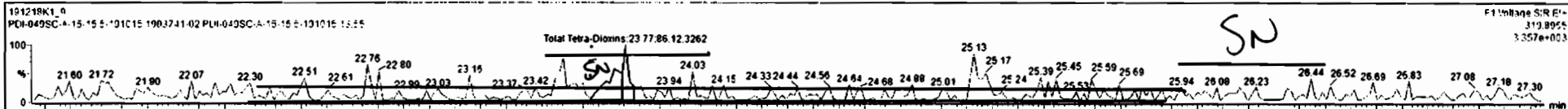






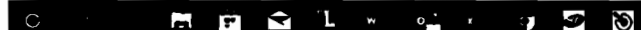
#	Name	Resp	RA	nly	RSP	w/val	Prod RT	RT	Prod R.	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9248	10.011	24.62		0.000		NO	0.0000		0.0000	0.1811
40	Total Penta-Dioxins				0.9046	10.011	29.95		0.000		NO			0.0392	
41	Total Hexa-Dioxins				0.9875	10.011	33.83		0.000		NO	0.0192		0.204	0.6192
42	Total Hepta-Dioxins				1.0375	10.011	38.80		0.000		NO	1.716		0.362	2.568
43	Total Tetra-Furans				0.9376	10.011	23.81		0.000		NO			0.0312	
44	Total Penta-Furans				0.9782	10.011	27.04		0.000		NO			0.0174	
45	Total Hexa-Furans				0.9782	10.011	29.27		0.000		NO			0.0260	
46	Total Hepta-Furans				1.1800	10.011	33.56		0.000		NO			0.0336	
47	Total Octa-Furans				1.1300	10.011	37.83		0.000		NO			0.0389	

#	Name	Prod RT	RT	ref Resp	res Resp	1 <sup>st</sup> Ratio (Prod)	RA	nly	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	23.77	0.612e1	5.757e1	0.770	1.50	YES	0.064872	0.00000
2	39 Total Tetra-Dioxins	24.62	23.72	1.273e2	1.031e2	0.770	1.23	YES	0.11618	0.00000



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191218K1\_9

NURA

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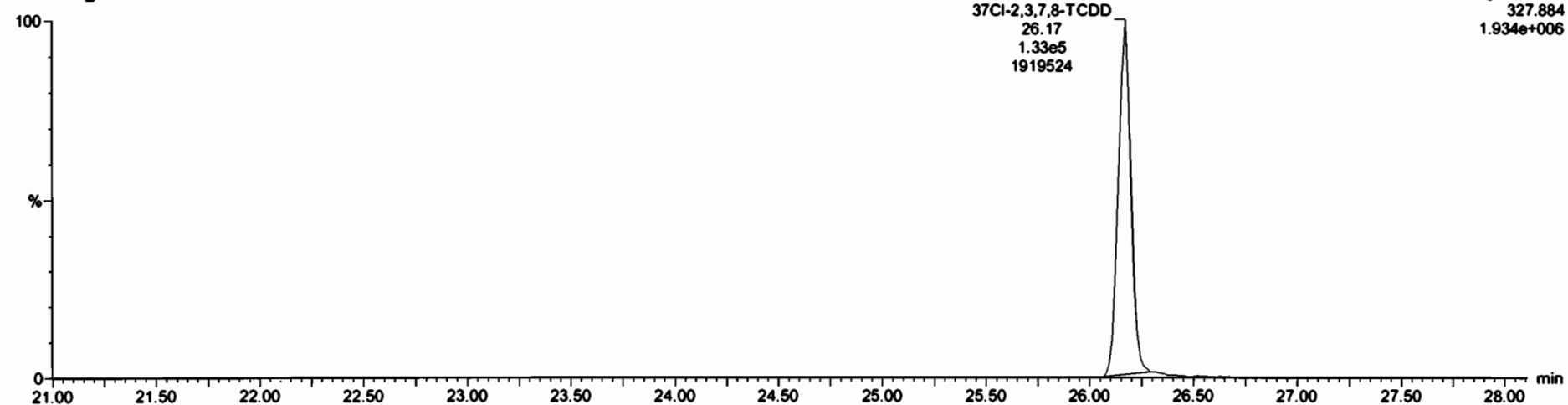
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Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

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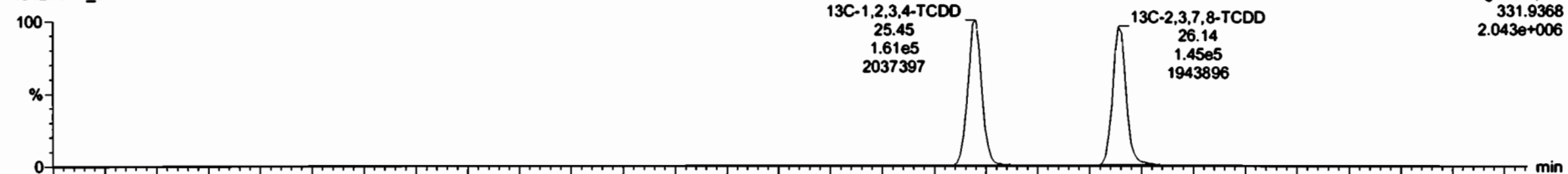
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191218K1\_9

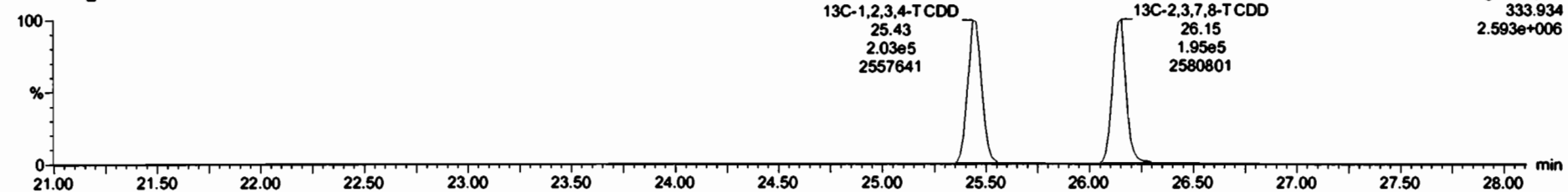


**13C-1,2,3,4-TCDD**

191218K1\_9



191218K1\_9



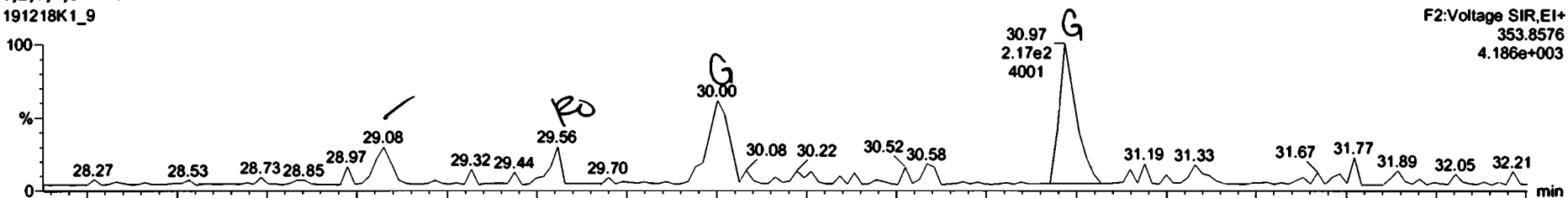
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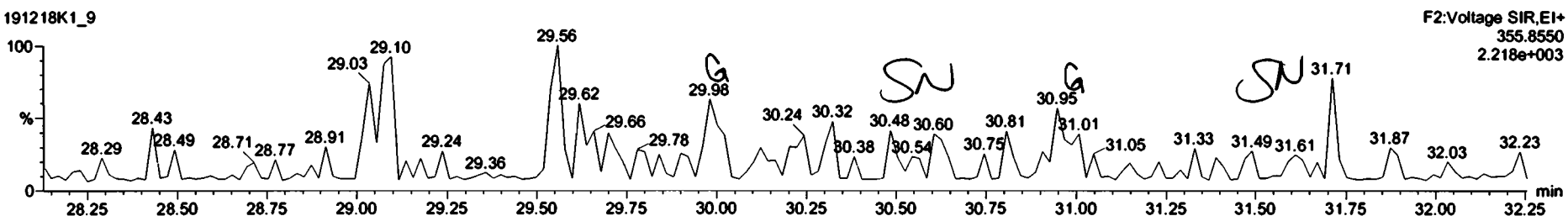
1,2,3,7,8-PeCDD

191218K1\_9



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4.186e+003

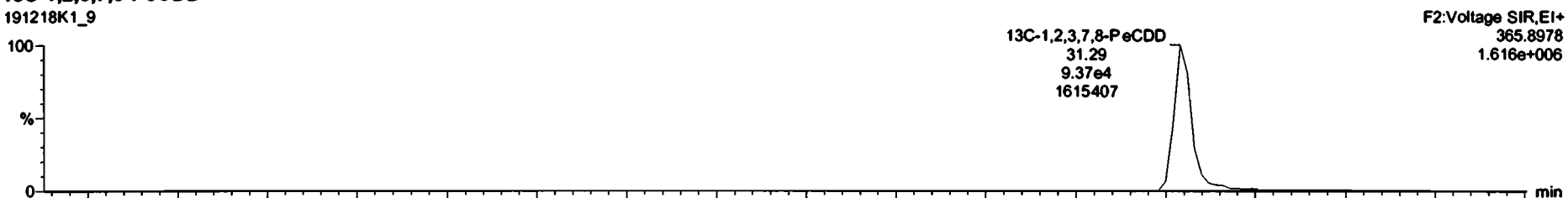
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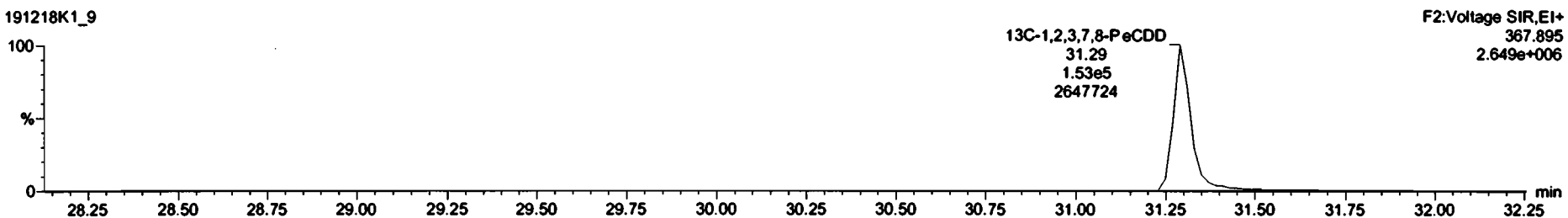
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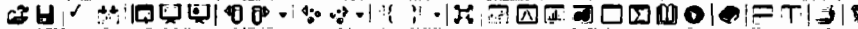


F2:Voltage SIR,EI+  
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1.616e+006

191218K1\_9



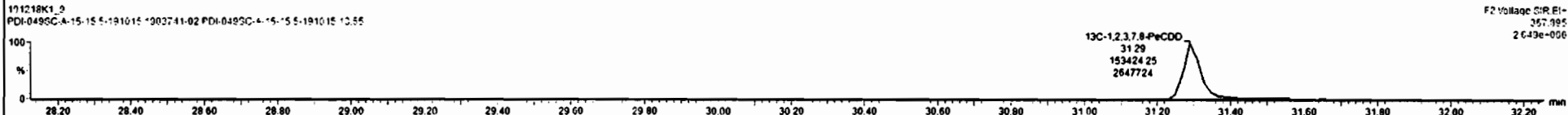
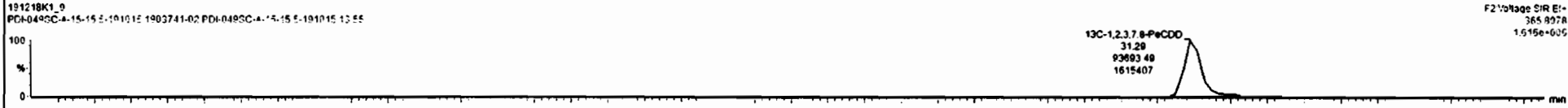
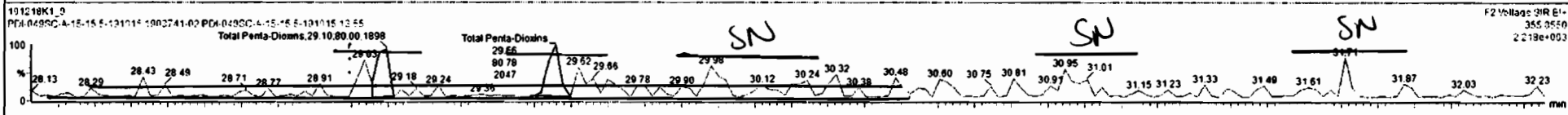
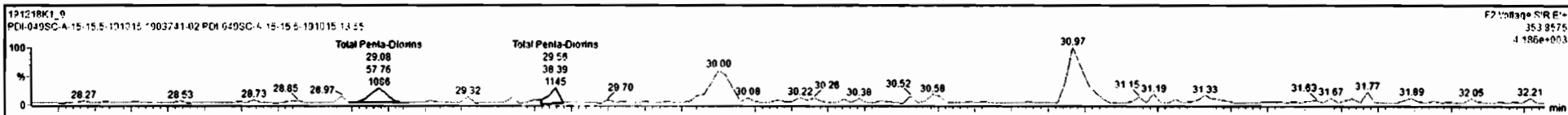
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2.649e+006



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#	Name	Resp	RA	rv	RRF	rs/val	Pred.RT	RT	Pred.R.	RRY	RRY Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	18.811	24.42		0.000		NO	0.0000		0.0995	0.1811
40	Total Penta-Dioxins				0.9848	18.811	29.98		0.000		NO	0.1231		0.8582	0.2119
41	Total Hexa-Dioxins				0.9875	18.811	33.83		0.000		NO	0.6192		0.204	0.6192
42	Total Hepta-Dioxins				1.0375	18.811	38.80		0.000		NO	1.716		0.362	2.588
43	Total Tetra-Furans				0.9378	18.811	23.81		0.000		NO			0.0312	
44	1st Func. Penta-Furans				0.9782	18.811	27.84		0.000		NO			0.0174	
45	Total Penta-Furans				0.9782	18.811	29.27		0.000		NO			0.0260	
46	Total Hexa-Furans				1.1886	18.811	33.56		0.000		NO			0.0338	
47	Total Hepta-Furans				1.1380	18.811	37.83		0.000		NO			0.0389	

#	Name	Pred.RT	RT	rt Resp	rt2 Resp	1% Rate (Pred)	RA	rv	EMPC	Conc.
1	40 Total Penta-Dioxins	29.98	29.98	5.776e1	8.000e1	0.630	0.72	NO	0.12311	0.12311
2	40 Total Penta-Dioxins	29.98	29.98	3.639e1	8.078e1	0.630	0.48	YES	0.088763	0.00000



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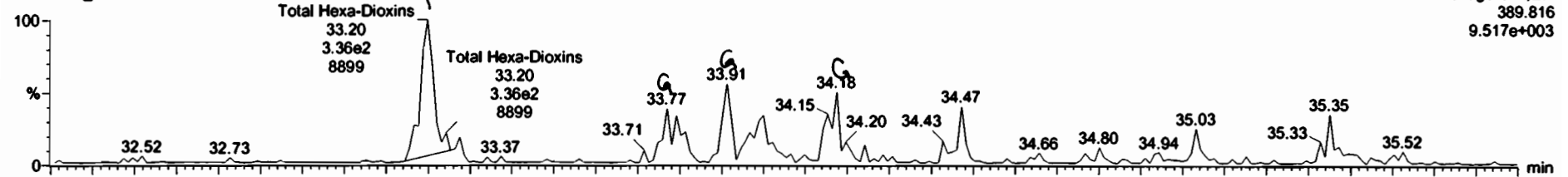
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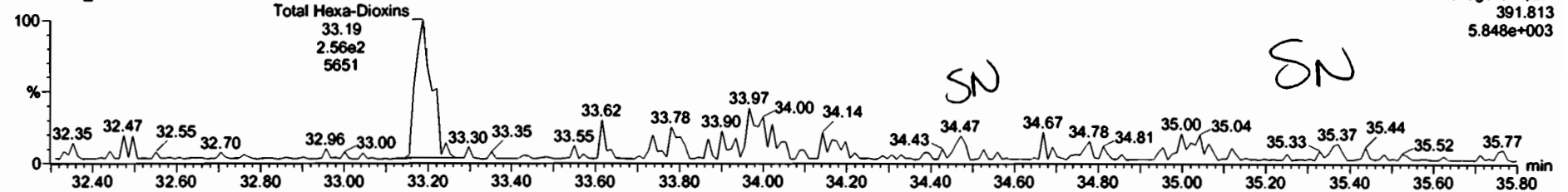
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1,2,3,4,7,8-HxCDD

191218K1\_9

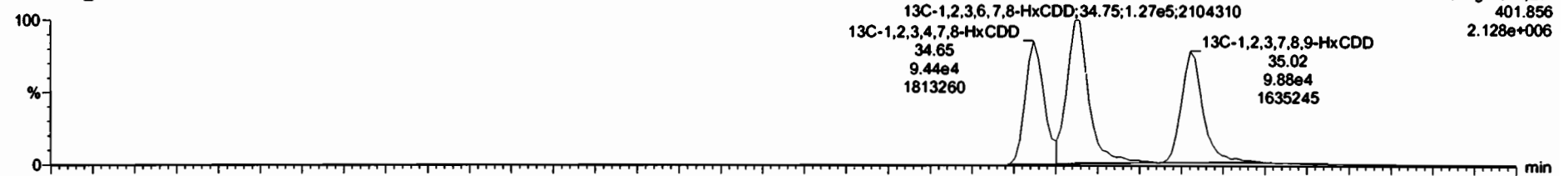


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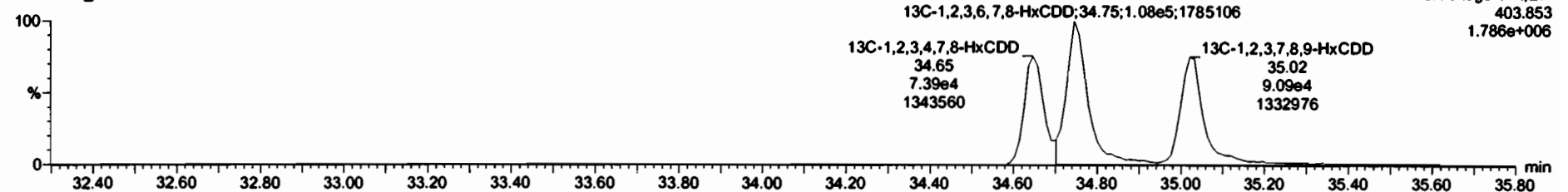


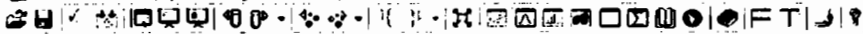
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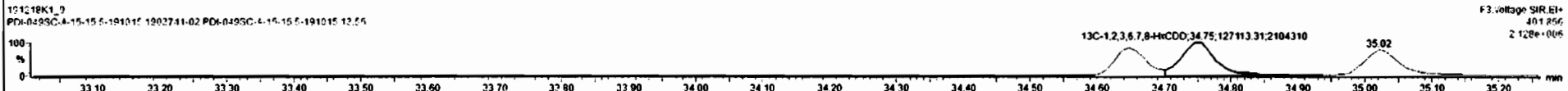
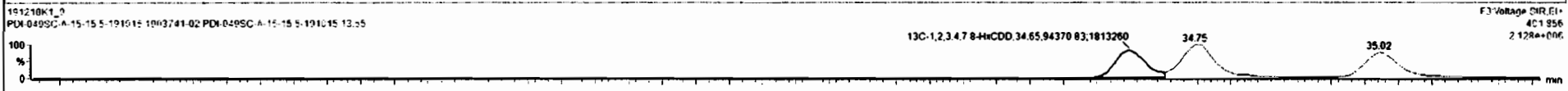
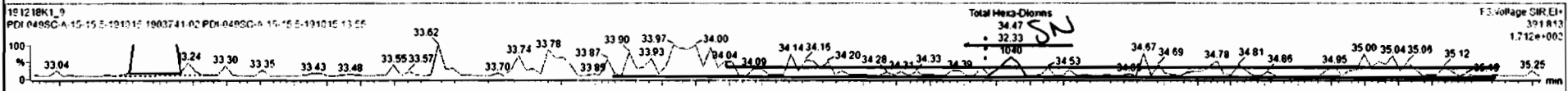
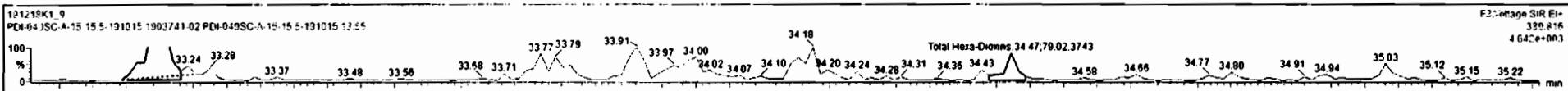
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#	Name	Resp	RA	aly	RF	wtVal	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	10.011	24.02		0.000		NO	0.0000		0.0995	0.1811
40	Total Penta-Dioxins				0.9040	10.011	29.95		0.000		NO	0.1231		0.0392	0.2119
41	Total Hexa-Dioxins				0.9078	10.011	33.03		0.000		NO	0.0000		0.163	0.0307
42	Total Hepta-Dioxins				1.0375	10.011	38.00		0.000		NO	1.716		0.362	2.568
43	Total Tetra-Furans				0.9370	10.011	23.81		0.000		NO			0.0312	
44	1st Func. Penta-Furans				0.9702	10.011	27.04		0.000		NO			0.0174	
45	Total Penta-Furans				0.9702	10.011	29.27		0.000		NO			0.0260	
46	Total Hexa-Furans				1.1806	10.011	33.56		0.000		NO			0.0336	
47	Total Hepta-Furans				1.1300	10.011	37.83		0.000		NO			0.0389	

#	Name	Pred RT	RT	ret Resp	mE Resp	1st Ratio (Pred)	RA	aly	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	33.20	3.473e2	2.307e2	1.240	1.45	YES	0.56100	0.00000
2	41 Total Hexa-Dioxins	33.63	34.47	7.902e1	3.233e1	1.240	2.44	YES	0.075671	0.00000

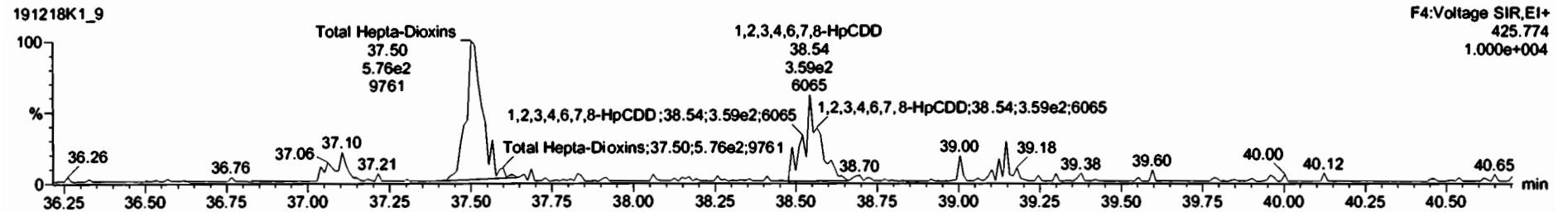
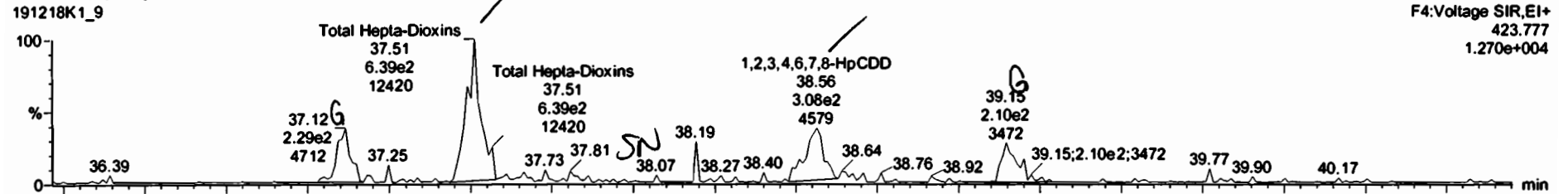


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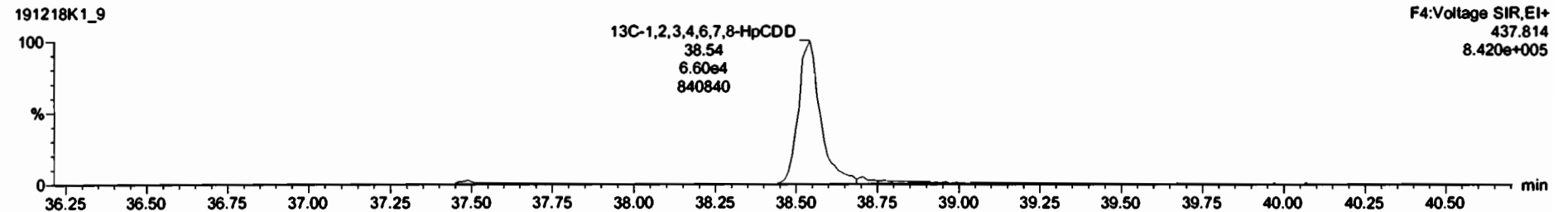
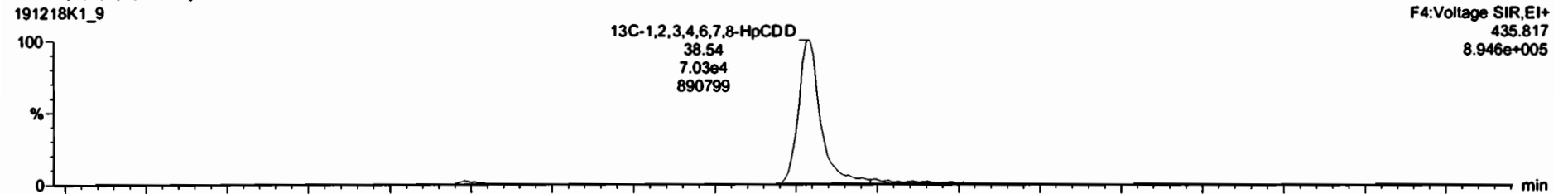
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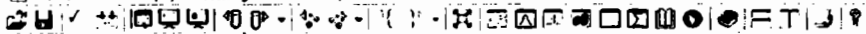
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1,2,3,4,6,7,8-HpCDD



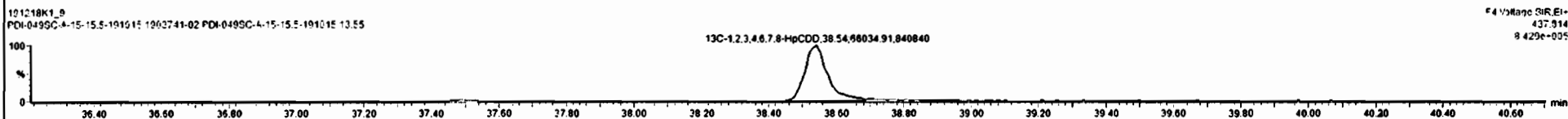
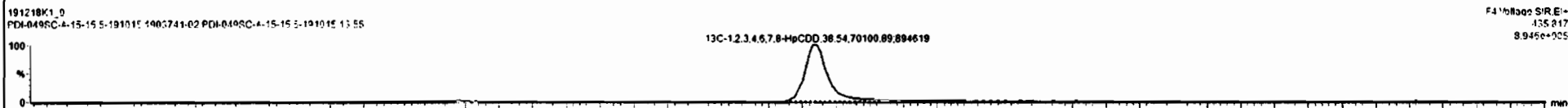
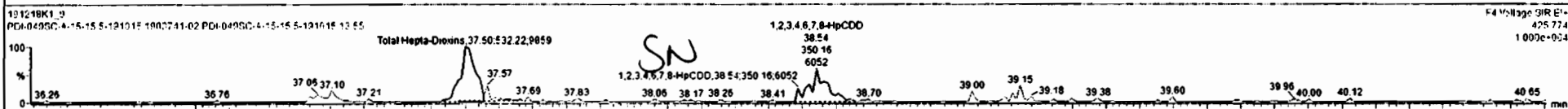
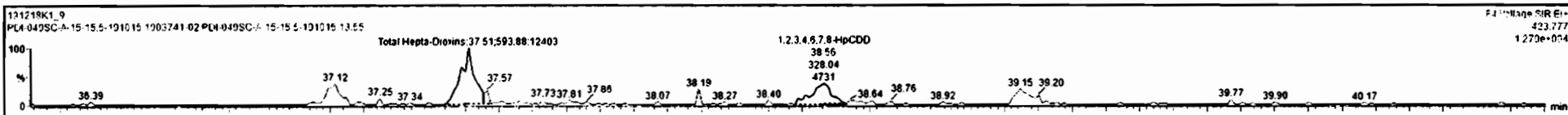
13C-1,2,3,4,6,7,8-HpCDD





#	Name	Insp	RA	nly	RRP	wtVal	Prod.RT	RT	Prod.R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9248	10.011	24.62		0.000		NO	0.0000		0.0995	0.1811
40	Total Penta-Dioxins				0.9046	10.011	29.96		0.000		NO	0.1231		0.0392	0.2119
41	Total Hexa-Dioxins				0.9875	10.011	33.03		0.000		NO	0.0000		0.103	0.6367
42	Total Hepta-Dioxins				1.6076	10.011	38.00		0.000		NO	2.562		0.209	2.662
43	Total Tetra-Furans				0.9370	10.011	23.61		0.000		NO			0.0312	
44	1st Func. Penta-Furans				0.9762	10.011	27.04		0.000		NO			0.0174	
45	Total Penta-Furans				0.9762	10.011	29.27		0.000		NO			0.0260	
46	Total Hexa-Furans				1.1800	10.011	33.56		0.000		NO			0.0338	
47	Total Hepta-Furans				1.1300	10.011	37.83		0.000		NO			0.0389	

#	Name	Prod.RT	RT	wt Resp	m2 Resp	1 <sup>st</sup> Ratio (Prod)	RA	nly	EMPC	Conc.
1	42 Total Hepta-Dioxins	38.00	37.51	5.938e2	5.322e2	1.040	1.12	NO	1.5928	1.5928
2	0 1,2,3,4,6,7,8-HpCDD	38.55	38.56	3.280e2	3.502e2	1.040	0.94	NO	0.95927	0.95927



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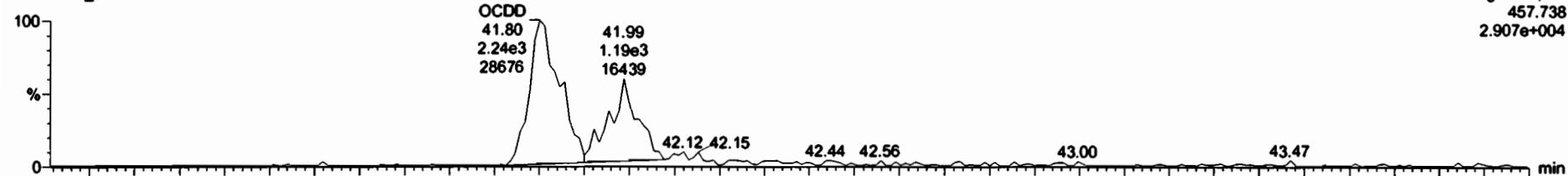
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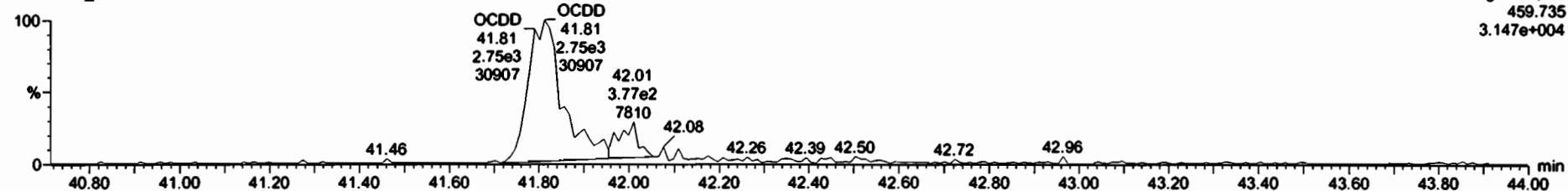
Name: 191218K1\_9, Date: 18-Dec-2019, Time: 23:59:08, ID: 1903741-02 PDI-049SC-A-15-15.5-191015 13.55, Description: PDI-049SC-A-15-15.5-191015

**OCDD**

191218K1\_9

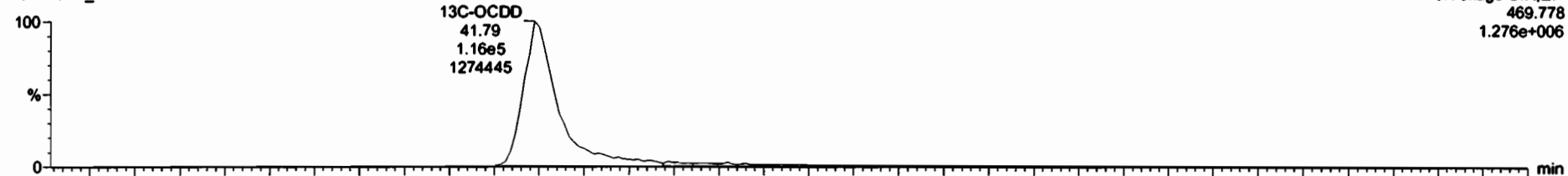


191218K1\_9

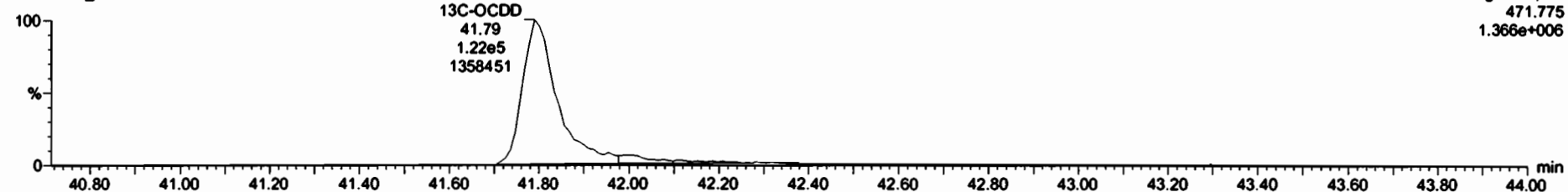


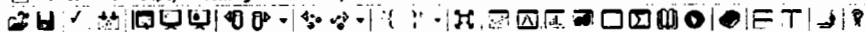
**13C-OCDD**

191218K1\_9



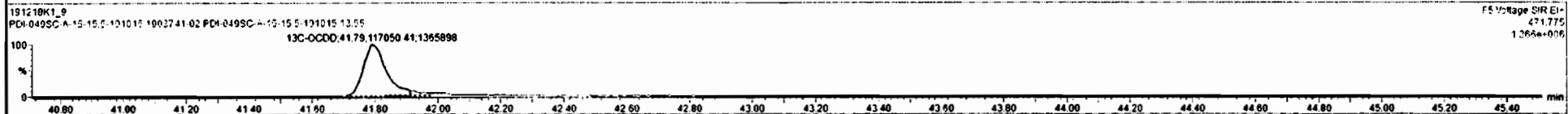
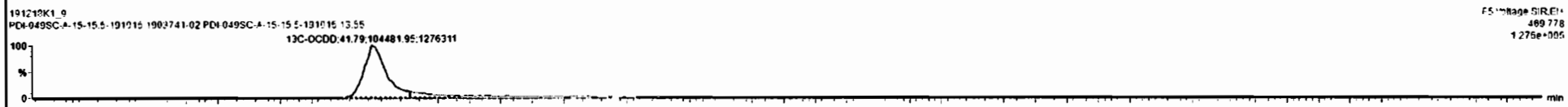
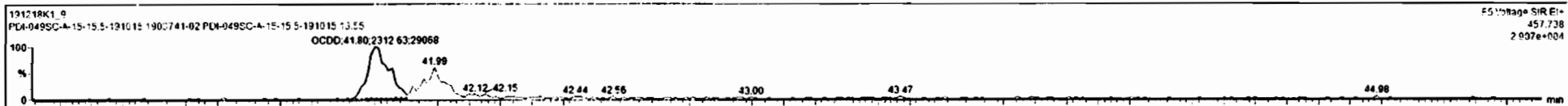
191218K1\_9





#	Name	Resp	RA	dy	RF	WtVal	Prod RT	RT	Prod.R.	RRT	RRT Err	Conc.	%Rec	DL	EMPC
1	1,2,3,7,8-TCDD			YES	0.9249	10.011	26.17		1.001		YES			0.158	
2	1,2,3,7,8-PeCDD			YES	0.9046	10.011	31.31		1.001		YES			0.123	
3	1,2,3,4,7,8-HxCDD			YES	1.0691	10.011	34.66		1.000		YES			0.196	
4	1,2,3,6,7,8-HxCDD			YES	0.9675	10.011	34.75		1.000		YES			0.189	
5	1,2,3,7,8,9-HxCDD			YES	0.9778	10.011	35.96		1.001		YES			0.229	
6	1,2,3,4,6,7,8-HpCDD	0.6742	0.86	YES	1.0375	10.011	36.55	36.56	1.000	1.001	NO	0.9416		0.362	0.8520
7	OCDD	0.8143	0.83	NO	0.9716	10.011	41.79	41.88	1.000	1.000	NO	0.919		0.819	0.919
8	2,3,7,8-TCDF			YES	0.9376	10.011	26.18		1.001		YES			0.0752	
9	1,2,3,7,8-PeCDF			YES	0.9762	10.011	30.00		1.001		YES			0.0622	
10	2,3,4,7,8-PeCDF			YES	1.0049	10.011	31.02		1.001		YES			0.0581	

#	Name	Prod RT	RT	nt Resp	nt2 Resp	1st Rate (Prod)	RA	dy	EMPC	Conc.
1										

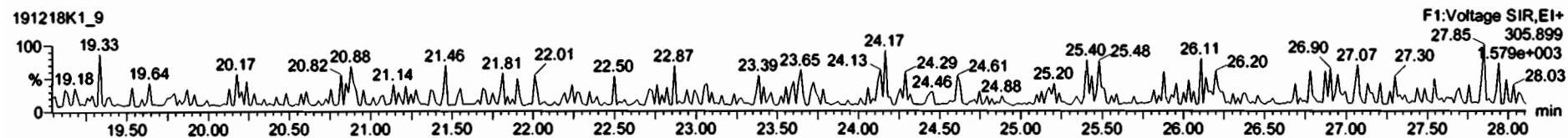
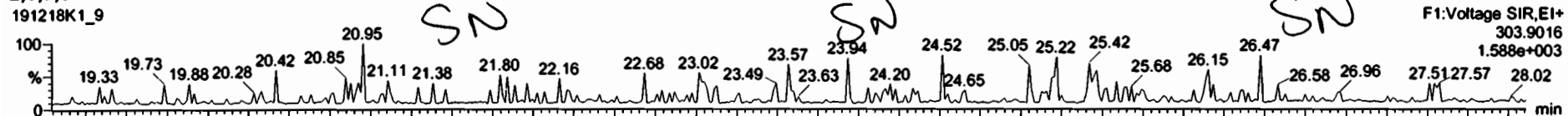


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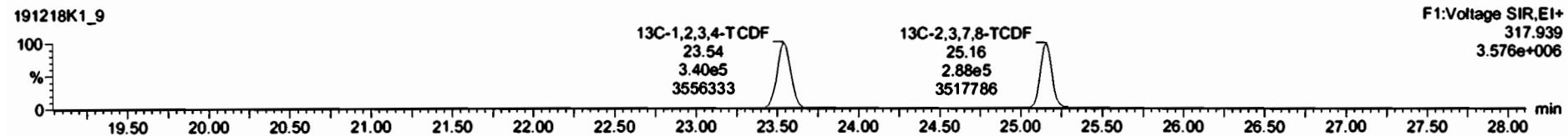
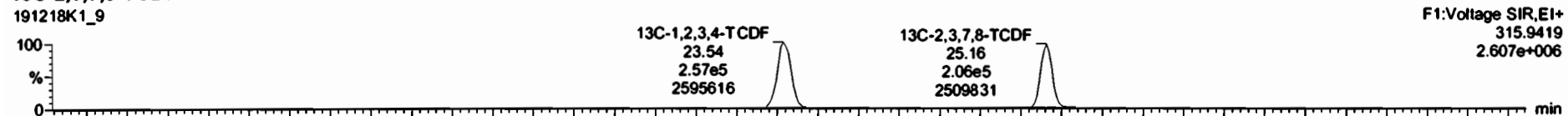
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Name: 191218K1\_9, Date: 18-Dec-2019, Time: 23:59:08, ID: 1903741-02 PDI-049SC-A-15-15.5-191015 13.55, Description: PDI-049SC-A-15-15.5-191015

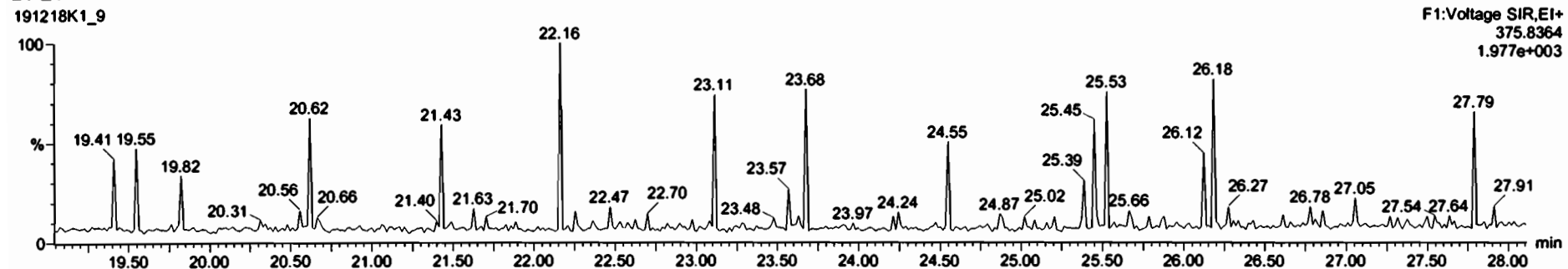
**2,3,7,8-TCDF**

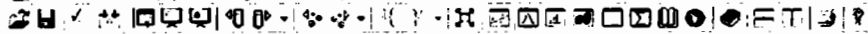


**13C-2,3,7,8-TCDF**



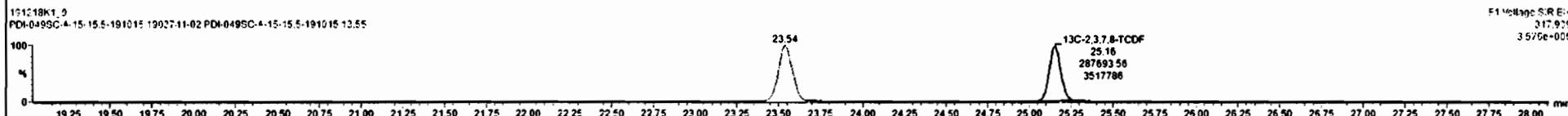
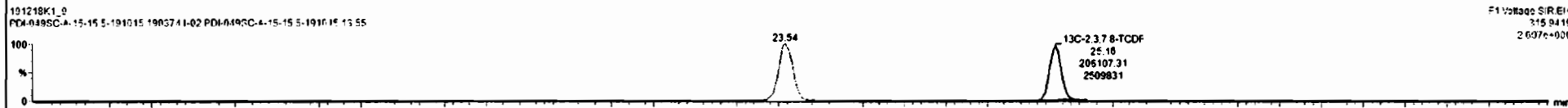
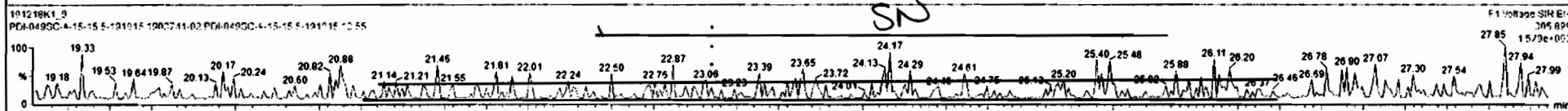
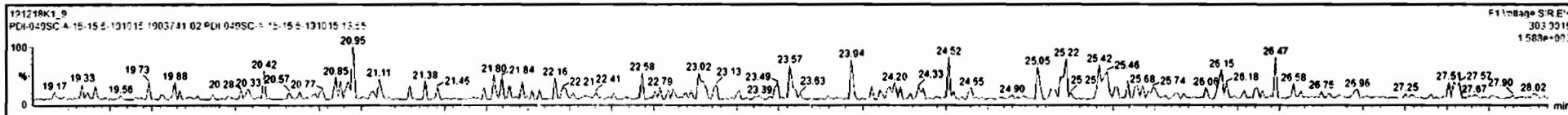
**DPE1**





#	Name	Resp	RA	ry	RFP	wVal	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	10.011	24.62		0.000		NO	0.0000		0.0997	0.1811
40	Total Penta-Dioxins				0.9046	10.011	29.96		0.000		NO	0.1231		0.0392	0.2119
41	Total Hexa-Dioxins				0.9675	10.011	33.63		0.000		NO	0.0000		0.103	0.6307
42	Total Hepta-Dioxins				1.0375	10.011	38.80		0.000		NO	2.552		0.368	2.552
43	Total Tetra-Furans				0.8870	10.011	23.61		0.000		NO			0.8872	
44	1st Func. Penta-Furans				0.9762	10.011	27.84		0.000		NO			0.0174	
45	Total Penta-Furans				0.9762	10.011	29.27		0.000		NO			0.0260	
46	Total Hexa-Furans				1.1806	10.011	33.56		0.000		NO			0.0338	
47	Total Hepta-Furans				1.1300	10.011	37.83		0.000		NO			0.0389	

#	Name	Pred RT	RT	ret Resp	nl Resp	1 <sup>st</sup> Ratio (Pred)	RA	ry	EMPC	Conc
1										



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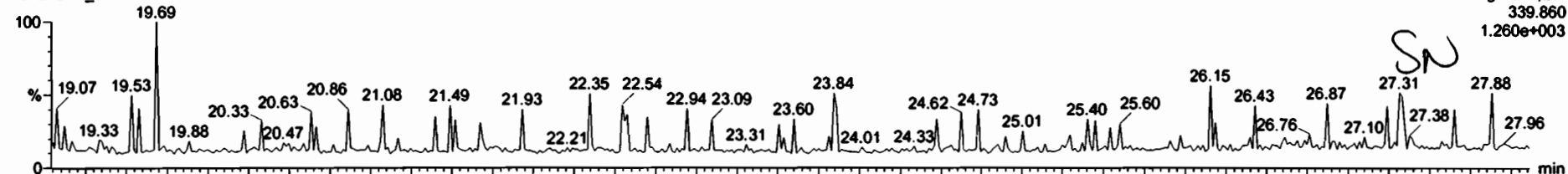
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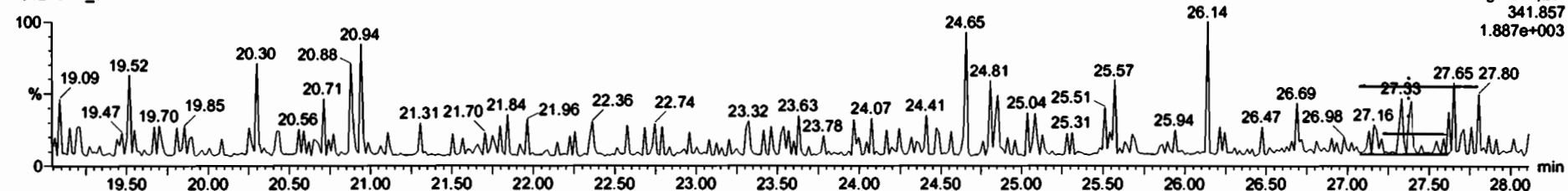
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1st Func. Penta-Furans

191218K1\_9

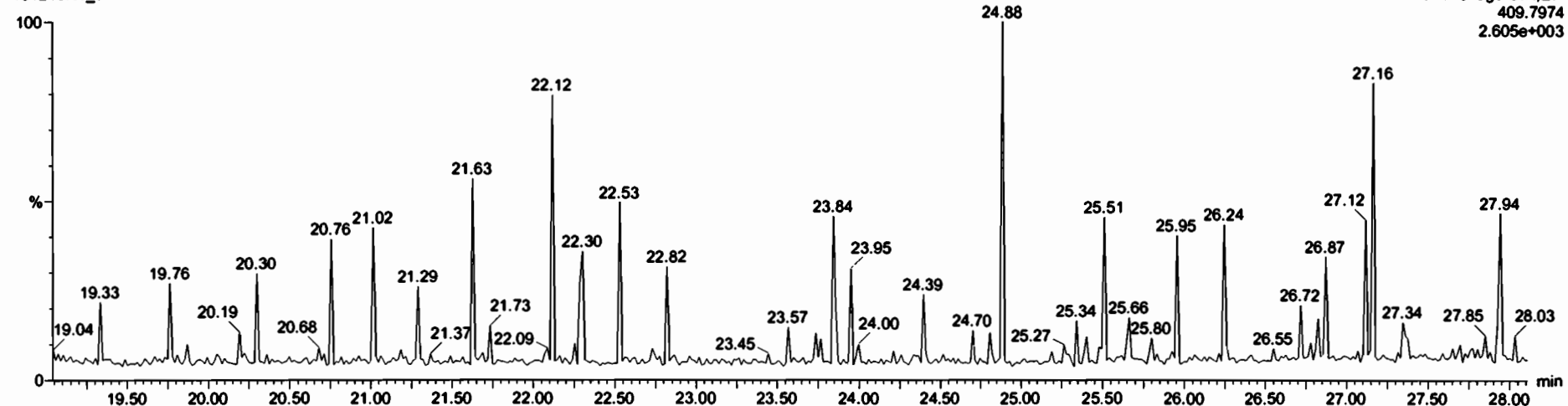


191218K1\_9



DPE6

191218K1\_9

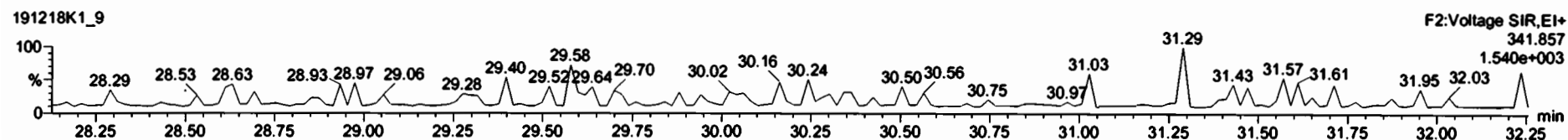
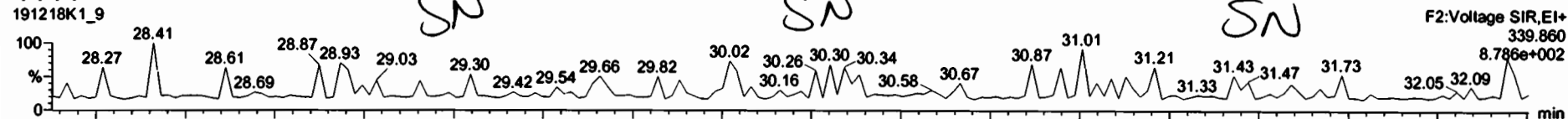


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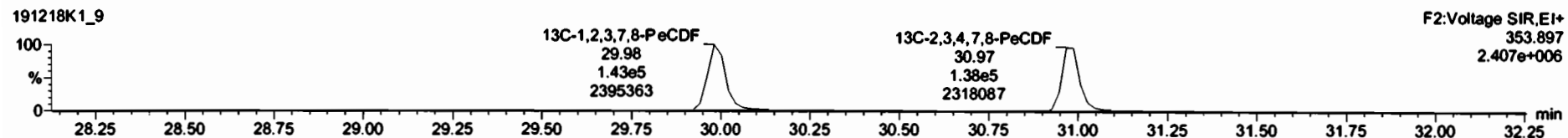
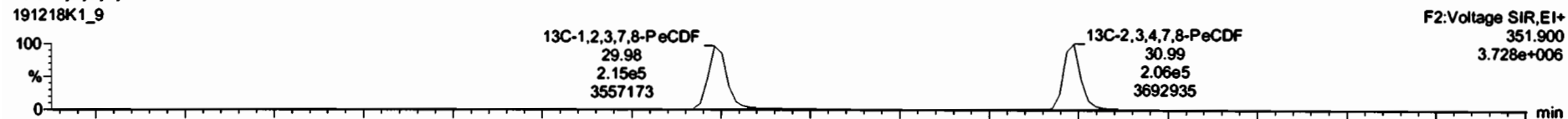
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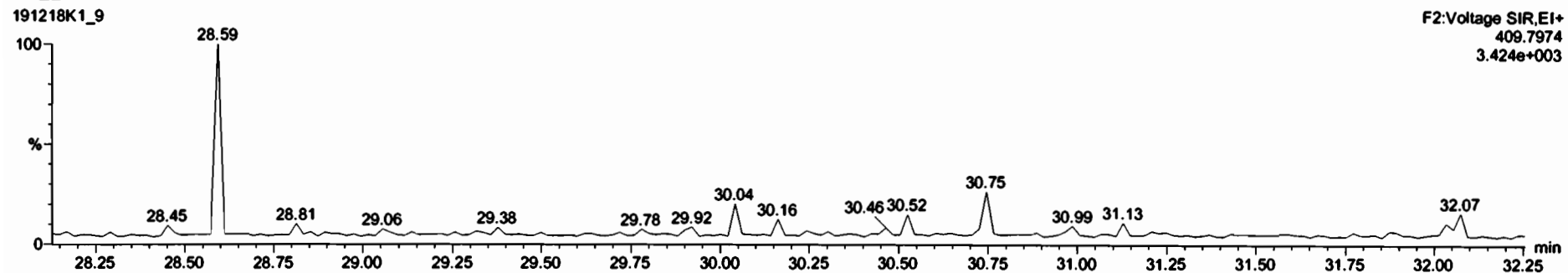
**1,2,3,7,8-PeCDF**

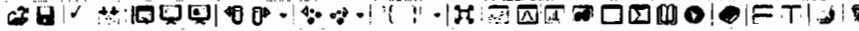


**13C-1,2,3,7,8-PeCDF**



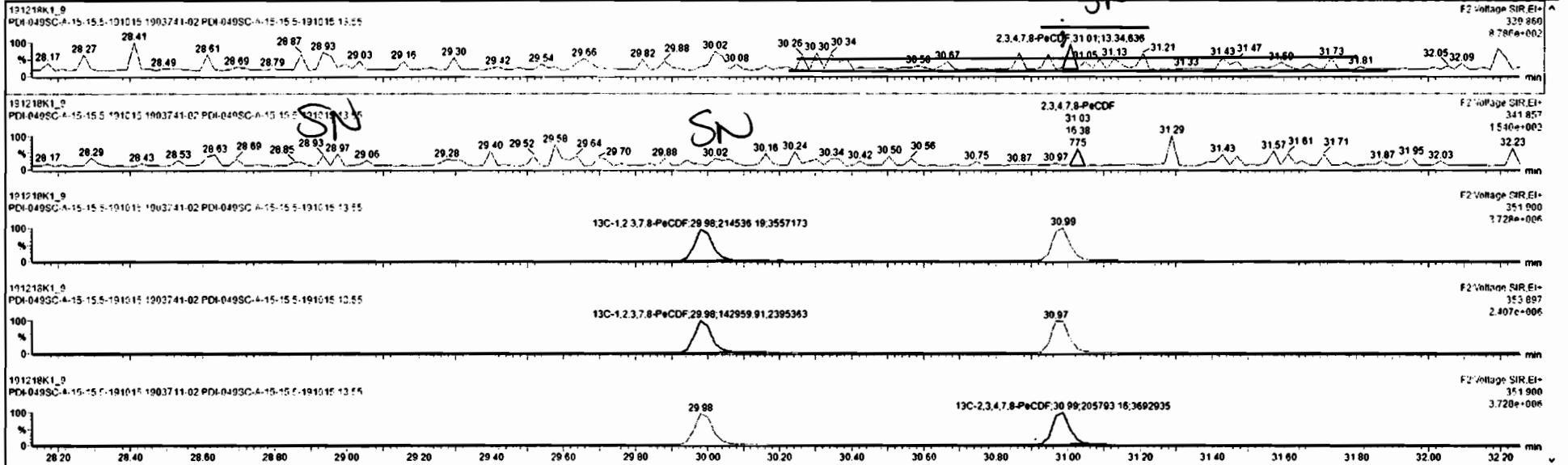
**DPE2**





#	Name	Resp	RA	nly	RPF	wtVal	Prod.RT	RT	Prod.R...	RRT	RRT Fall	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	10.011	24.62		0.000		NO	0.0009		0.0995	0.1811
40	Total Penta-Dioxins				0.9046	10.011	29.95		0.000		NO	0.1231		0.0392	0.2119
41	Total Hexa-Dioxins				0.9875	10.011	33.83		0.000		NO	0.0000		0.103	0.6387
42	Total Hepta-Dioxins				1.0376	10.011	38.80		0.000		NO	2.552		0.368	2.552
43	Total Tetra-Furans				0.9376	10.011	23.61		0.000		NO			0.0312	
44	1st Func. Penta-Furans				0.9782	10.011	27.04		0.000		NO			0.0174	
45	Total Penta-Furans				0.9782	10.011	29.27		0.000		NO	0.0000		0.0200	0.01270
46	Total Hexa-Furans				1.1808	10.011	33.56		0.000		NO			0.0338	
47	Total Hepta-Furans				1.1300	10.011	37.83		0.000		NO			0.0389	

#	Name	Prod.RT	RT	wt Resp	n2 Resp	1st Ratio (Prod)	RA	nly	EMPC	Conc.
1	2,3,4,7,8-PeCDF	31.02	31.01	1.334e1	1.638e1	1.550	0.81	YES	0.012696	0.00000

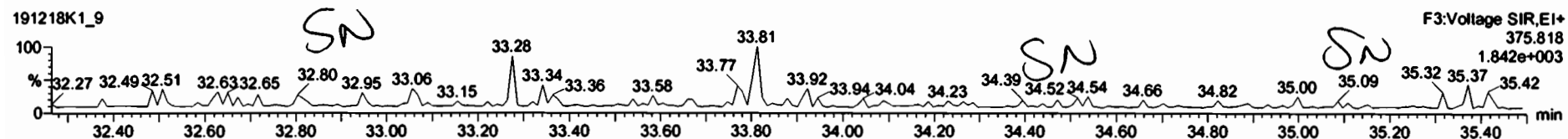
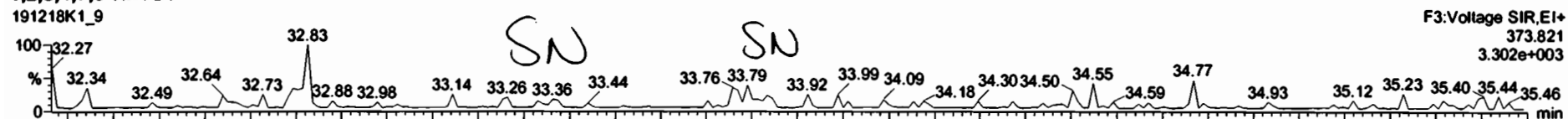


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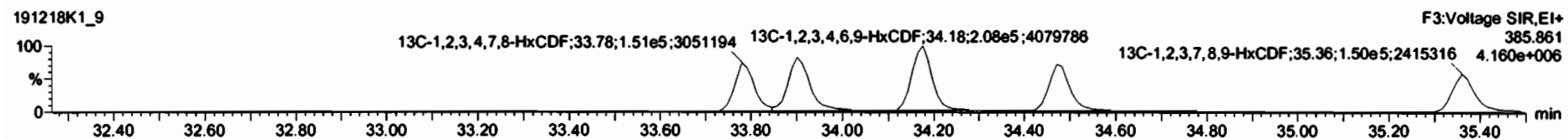
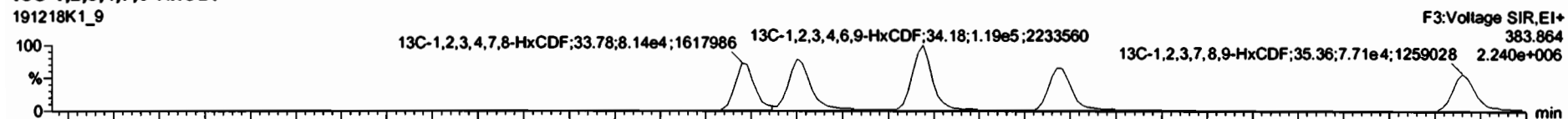
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Name: 191218K1\_9, Date: 18-Dec-2019, Time: 23:59:08, ID: 1903741-02 PDI-049SC-A-15-15.5-191015 13.55, Description: PDI-049SC-A-15-15.5-191015

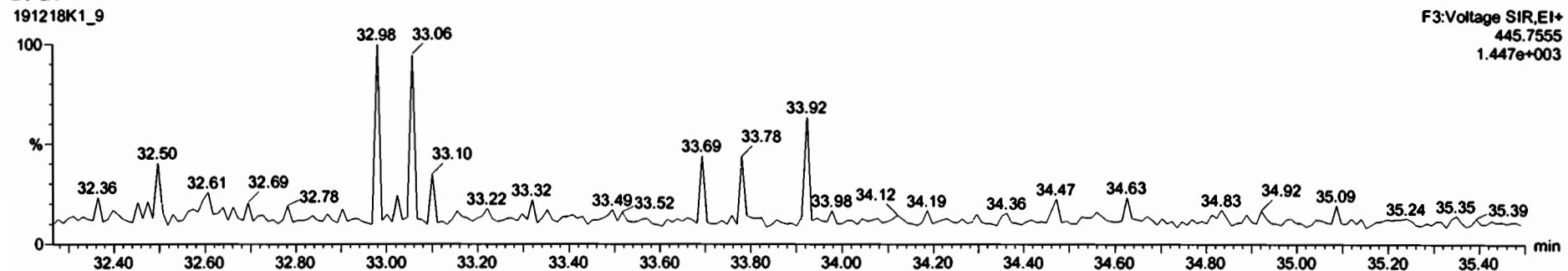
1,2,3,4,7,8-HxCDF



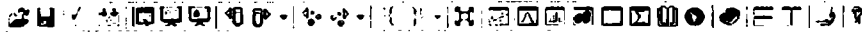
13C-1,2,3,4,7,8-HxCDF



DPE3

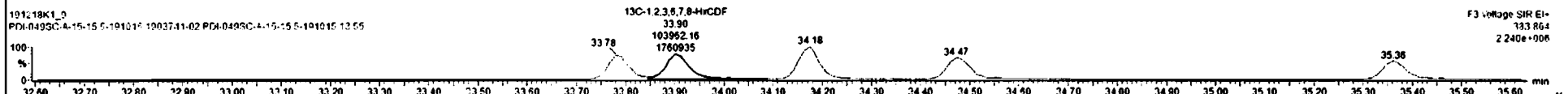
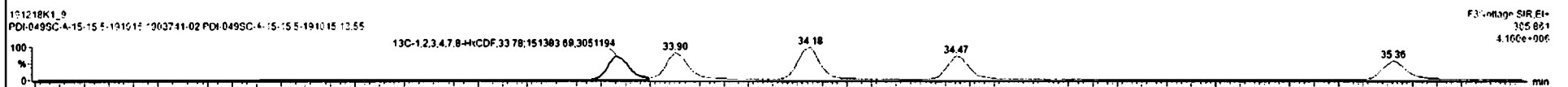
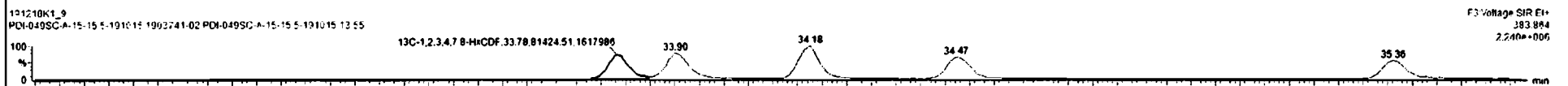
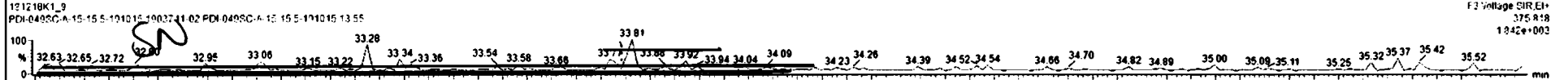
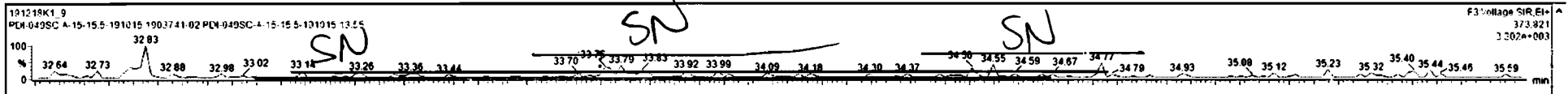






#	Name	Reop	RA	n/y	RRT	wt/val	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	10.011	24.62		0.000	NO	NO	0.0000	0.0995	0.1811	
40	Total Penta-Dioxins				0.9046	10.011	28.96		0.000	NO	NO	0.1231	0.0392	0.2119	
41	Total Hexa-Dioxins				0.9875	10.011	33.83		0.000	NO	NO	0.0098	0.183	0.6367	
42	Total Hepta-Dioxins				1.0375	10.011	38.80		0.000	NO	NO	2.552	0.368	2.952	
43	Total Tetra-Furans				0.9378	10.011	23.81		0.000	NO	NO		0.0312		
44	1st Func. Penta-Furans				0.9782	10.011	27.04		0.000	NO	NO		0.0171		
45	Total Penta-Furans				0.9782	10.011	29.27		0.000	NO	NO	0.0000	0.0260	0.01270	
46	Total Hexa-Furans				1.1088	10.011	33.99		0.000	NO	NO		0.0538		
47	Total Hepta-Furans				1.1380	10.011	37.83		0.000	NO	NO		0.0388		

#	Name	Pred.RT	RT	n1 Reop	n2 Reop	1* Rate (Pred)	RA	n/y	EMPC	Conc.
1										



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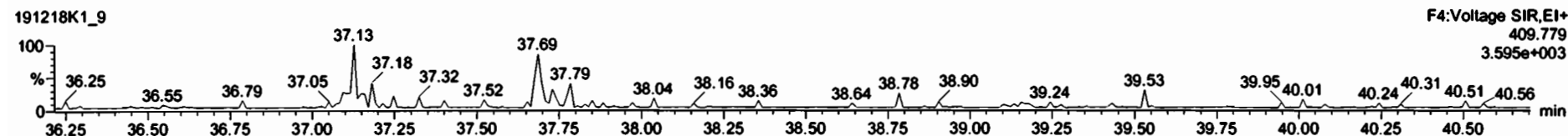
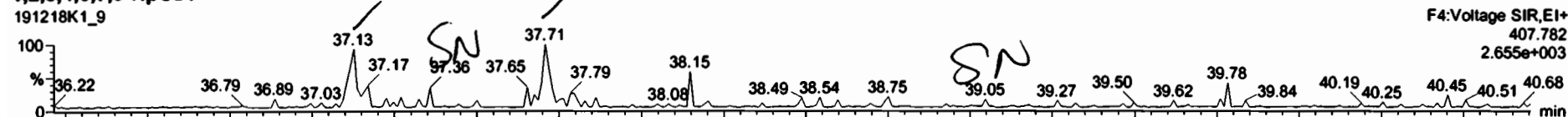
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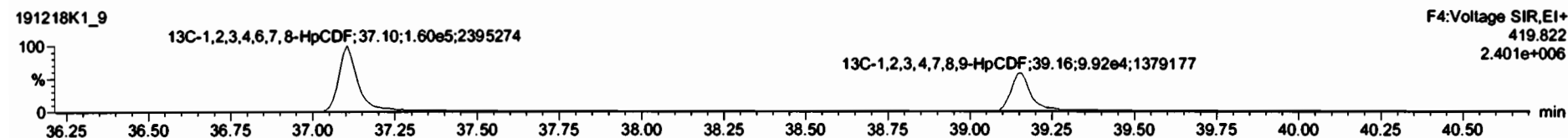
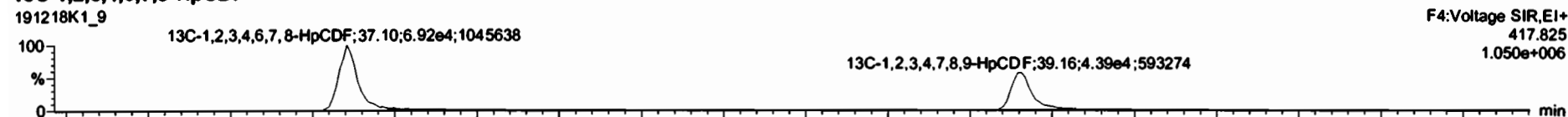
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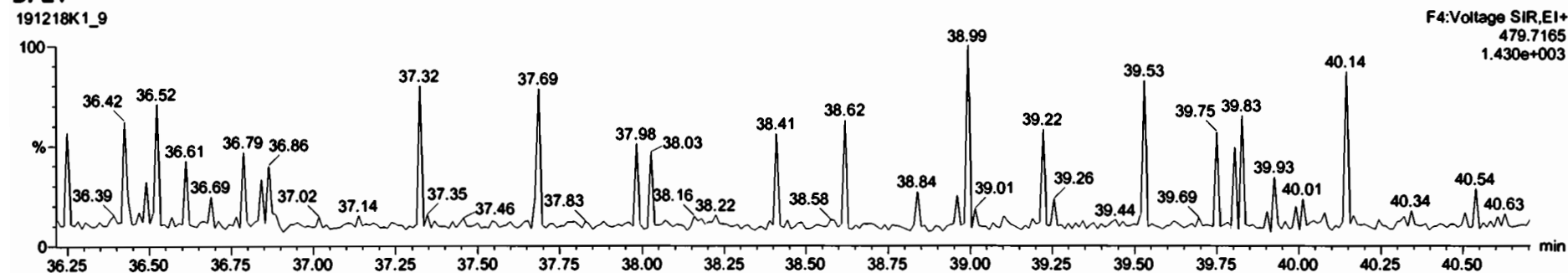
### 1,2,3,4,6,7,8-HpCDF



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



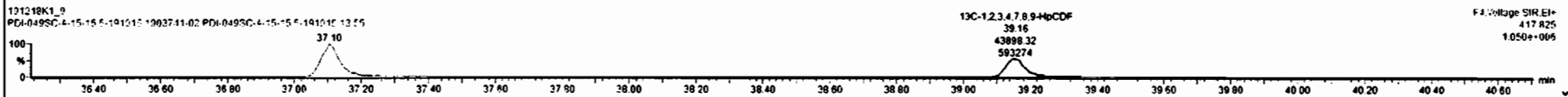
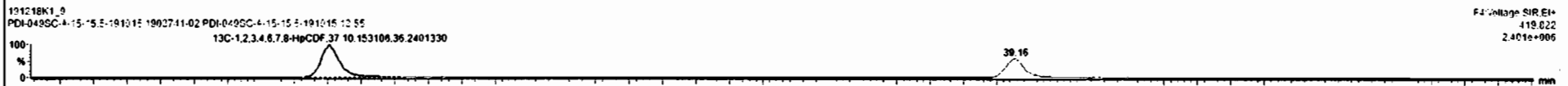
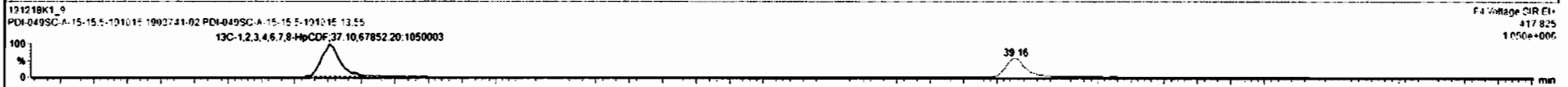
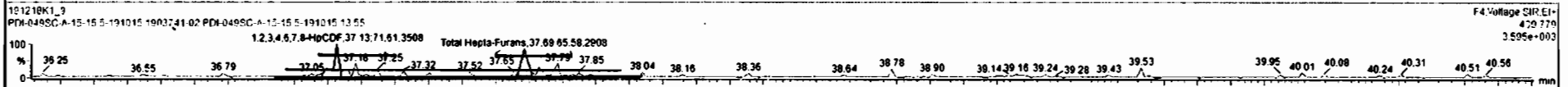
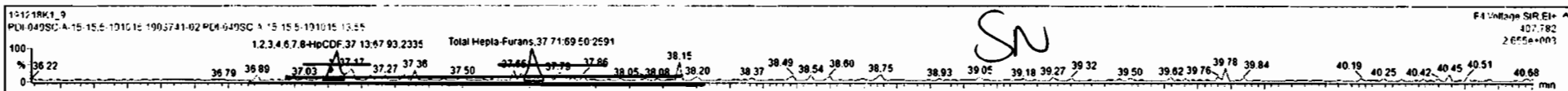
### DPE4





#	Name	Resp	RA	ny	RPF	ntPred	PredRT	RT	Pred.R.	RRT	RRT Fal	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	10.011	24.82		0.000	NO	0.0000			0.0995	0.1811
40	Total Penta-Dioxins				0.9046	10.011	29.96		0.000	NO	0.1231			0.0392	0.2119
41	Total Hexa-Dioxins				0.9675	10.011	33.83		0.000	NO	0.0000			0.102	0.6397
42	Total Hepta-Dioxins				1.0375	10.011	36.80		0.000	NO	2.552			0.360	2.552
43	Total Tetra-Furans				0.9376	10.011	23.61		0.000	NO				0.0312	
44	1st Func. Penta-Furans				0.9762	10.011	27.04		0.000	NO				0.0174	
45	Total Penta-Furans				0.9762	10.011	29.27		0.000	NO	0.0009			0.0260	0.01270
46	Total Hexa-Furans				1.1806	10.011	33.56		0.000	NO				0.0338	
47	Total Hepta-Furans				1.1380	10.011	37.83		0.000	NO	0.2420			0.0393	0.2420

#	Name	Pred RT	RT	nt Resp	nt2 Resp	1st Rate (Pred)	RA	ny	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	37.14	37.13	6.790e1	7.161e1	1.040	0.95	NO	0.11165	0.11165
2	47 Total Hepta-Furans	37.83	37.71	6.950e1	6.550e1	1.040	1.00	NO	0.12119	0.13119

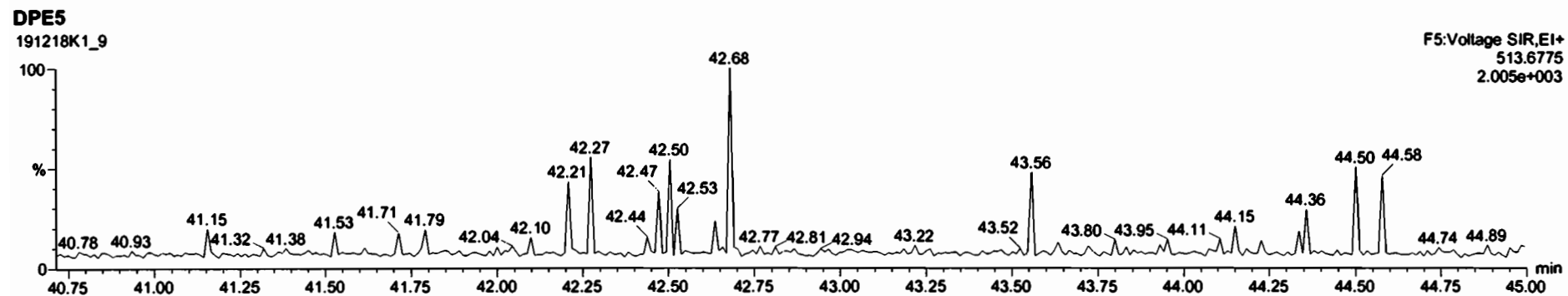
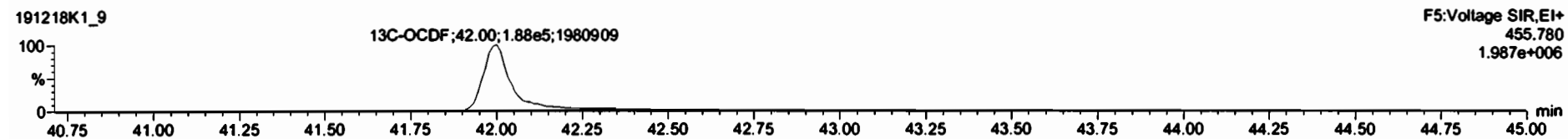
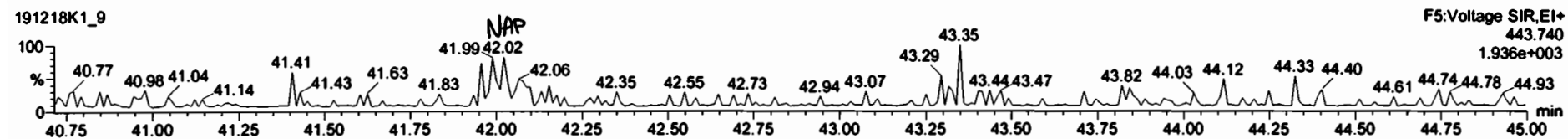
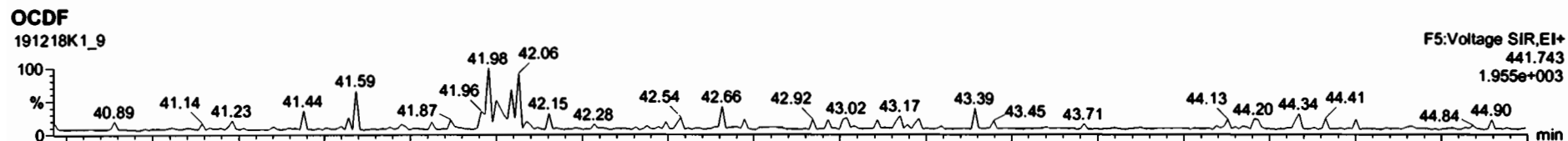


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Last Altered: Thursday, December 19, 2019 07:42:21 Pacific Standard Time

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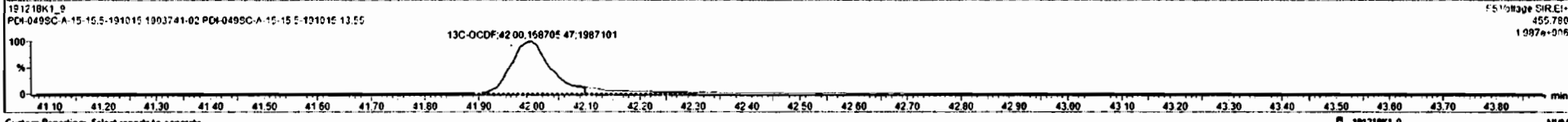
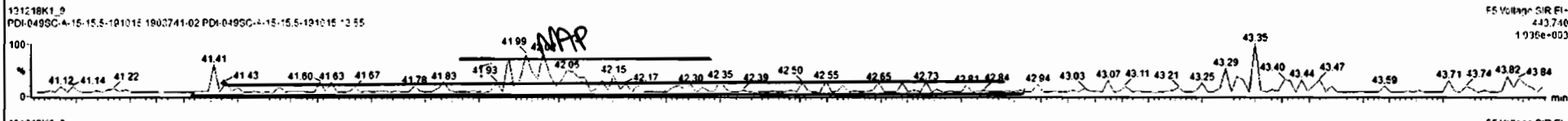
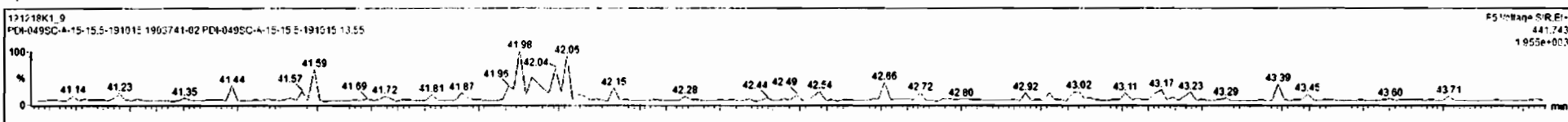
Name: 191218K1\_9, Date: 18-Dec-2019, Time: 23:59:08, ID: 1903741-02 PDI-049SC-A-15-15.5-191015 13.55, Description: PDI-049SC-A-15-15.5-191015





#	Name	Resp	RA	ny	RPF	wtVal	Prod RT	RT	Prod R..	RRT	RRT Fct	Conc	%Rec	DL	EMPC
9	1,2,3,7,8-PeCDF			YES	0.9762	10.011	30.90		1.001		YES			0.0022	
10	2,3,4,7,8-PeCDF			YES	1.0049	10.011	31.02		1.001		YES			0.0561	
11	1,2,3,4,7,8-HxCDF			YES	1.2434	10.011	33.78		1.000		YES			0.0612	
12	1,2,3,6,7,8-HxCDF			YES	1.0959	10.011	33.91		1.000		YES			0.0649	
13	2,3,4,6,7,8-HxCDF			YES	1.1800	10.011	34.51		1.001		YES			0.0604	
14	1,2,3,7,8,9-HxCDF			YES	1.0728	10.011	35.36		1.000		YES			0.0740	
15	1,2,3,4,6,7,8-HpCDF			YES	1.1360	10.011	37.14		1.001		YES			0.0767	
16	1,2,3,4,7,8,9-HpCDF			YES	1.2609	10.011	39.10		1.000		YES			0.123	
17	OCDF			YES	1.1828	10.011	42.00		1.000		YES			0.161	
18	13C-2,3,7,8-TCDD	3.39e5	0.74	NO	1.0400	10.011	26.15	26.14	1.027	1.027	NO	1773	80.0	0.500	

#	Name	Prod RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Prod)	RA	ny	EMPC	Conc.
1										



Custom Reporting: Select reports to generate

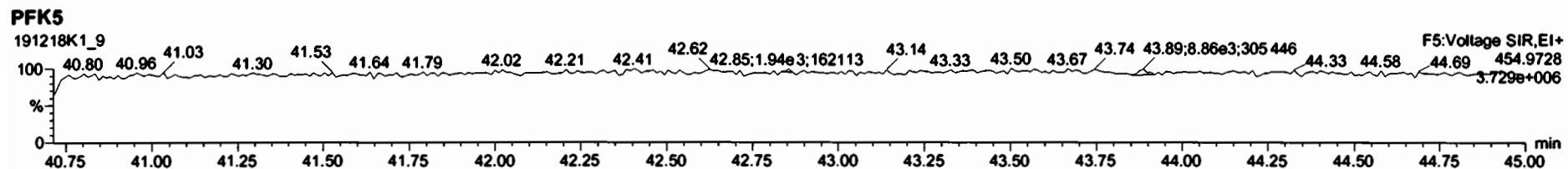
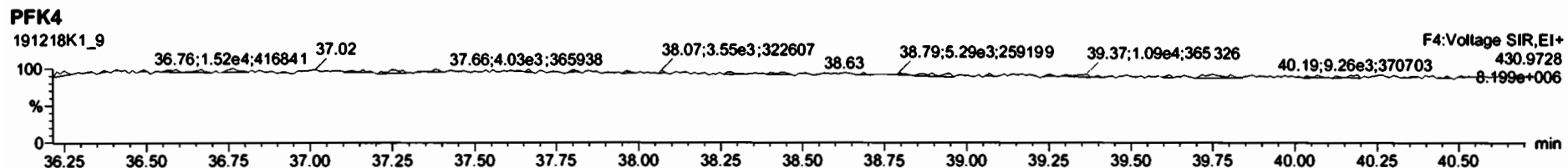
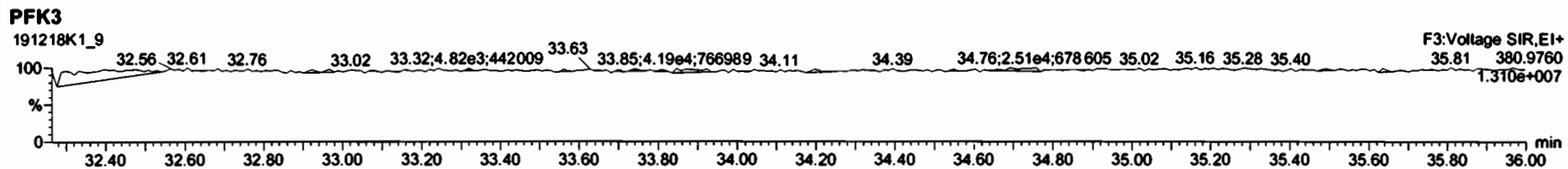
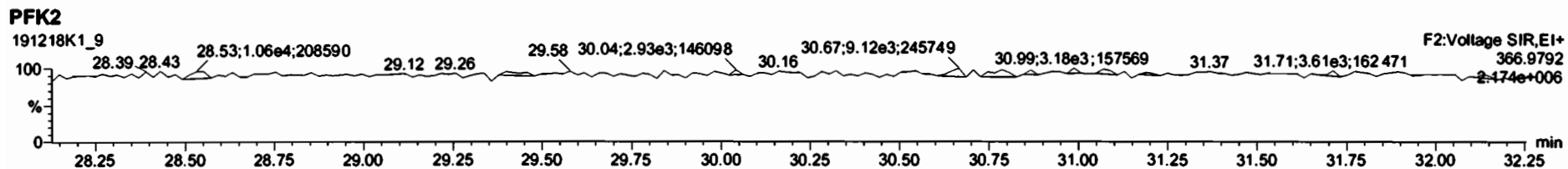
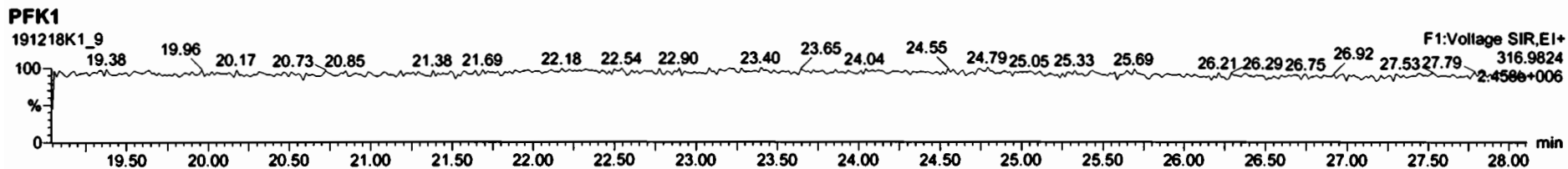
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Last Altered: Thursday, December 19, 2019 07:42:21 Pacific Standard Time

Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

Name: 191218K1\_9, Date: 18-Dec-2019, Time: 23:59:08, ID: 1903741-02 PDI-049SC-A-15-15.5-191015 13.55, Description: PDI-049SC-A-15-15.5-191015



Dataset: U:\VG11.PRO\Results\191218K1\191218K1-10.qld

Last Altered: Thursday, December 19, 2019 15:47:17 Pacific Standard Time

Printed: Thursday, December 19, 2019 15:48:28 Pacific Standard Time

GRB 12/19/19

Ci 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

Name: 191218K1\_10, Date: 19-Dec-2019, Time: 00:47:28, ID: 1903741-03 PDI-052SC-A-11-12-191015 14.96, Description: PDI-052SC-A-11-12-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			YES	0.925	10.085	26.17		1.00		YES			0.138	
2	2 1,2,3,7,8-PeCDD			YES	0.905	10.085	31.31		1.00		YES			0.131	
3	3 1,2,3,4,7,8-HxCDD			YES	1.07	10.085	34.66		1.00		YES			0.175	
4	4 1,2,3,6,7,8-HxCDD			YES	0.967	10.085	34.75		1.00		YES			0.171	
5	5 1,2,3,7,8,9-HxCDD			YES	0.978	10.085	35.06		1.00		YES			0.204	
6	6 1,2,3,4,6,7,8-HpCDD	961.895	1.247	YES	1.04	10.085	38.54	38.55	1.00	1.00	NO	0.8178		0.284	0.7423
7	7 OCDD	7292.613	0.918	NO	0.972	10.085	41.80	41.81	1.00	1.00	NO	8.073		0.489	8.073
8	8 2,3,7,8-TCDF			YES	0.938	10.085	25.18		1.00		YES			0.0774	
9	9 1,2,3,7,8-PeCDF			YES	0.976	10.085	30.00		1.00		YES			0.0523	
10	10 2,3,4,7,8-PeCDF			YES	1.00	10.085	31.00		1.00		YES			0.0541	
11	11 1,2,3,4,7,8-HxCDF			YES	1.24	10.085	33.78		1.00		YES			0.0355	
12	12 1,2,3,6,7,8-HxCDF	50.192	3.928	YES	1.10	10.085	33.91	33.90	1.00	1.00	NO	0.04901		0.0245	0.008639
13	13 2,3,4,6,7,8-HxCDF			YES	1.18	10.085	34.51		1.00		YES			0.0442	
14	14 1,2,3,7,8,9-HxCDF			YES	1.07	10.085	35.36		1.00		YES			0.0655	
15	15 1,2,3,4,6,7,8-HpCDF			YES	1.13	10.085	37.14		1.00		YES			0.0432	
16	16 1,2,3,4,7,8,9-HpCDF			YES	1.26	10.085	39.15		1.00		YES			0.0590	
17	17 OCDF			YES	1.10	10.085	42.00		1.00		YES			0.112	
18	18 13C-2,3,7,8-TCDD	433278.907	0.806	NO	1.05	10.085	26.13	26.14	1.03	1.03	NO	192.0	96.8	0.471	
19	19 13C-1,2,3,7,8-PeCDD	316494.672	0.589	NO	0.743	10.085	31.27	31.29	1.23	1.23	NO	198.1	99.9	0.756	
20	20 13C-1,2,3,4,7,8-HxCDD	242175.961	1.244	NO	0.646	10.085	34.64	34.65	1.01	1.01	NO	155.6	78.4	0.872	
21	21 13C-1,2,3,6,7,8-HxCDD	345554.172	1.230	NO	0.777	10.085	34.73	34.75	1.02	1.02	NO	184.7	93.1	0.725	
22	22 13C-1,2,3,7,8,9-HxCDD	294226.500	1.206	NO	0.659	10.085	35.01	35.02	1.02	1.03	NO	185.2	93.4	0.854	
23	23 13C-1,2,3,4,6,7,8-HpCDD	224814.110	1.089	NO	0.534	10.085	38.51	38.53	1.13	1.13	NO	174.7	88.1	1.29	
24	24 13C-OCDD	368694.328	0.916	NO	0.470	10.085	41.79	41.80	1.22	1.22	NO	325.4	82.0	1.63	
25	25 13C-2,3,7,8-TCDF	525327.360	0.731	NO	0.977	10.085	25.14	25.16	0.99	0.99	NO	161.0	81.2	0.568	
26	26 13C-1,2,3,7,8-PeCDF	449072.797	1.453	NO	0.778	10.085	29.96	29.98	1.18	1.18	NO	173.0	87.2	1.00	
27	27 13C-2,3,4,7,8-PeCDF	453405.969	1.579	NO	0.750	10.085	30.95	30.97	1.22	1.22	NO	181.1	91.3	1.04	
28	28 13C-1,2,3,4,7,8-HxCDF	380407.343	0.502	NO	0.845	10.085	33.77	33.78	0.99	0.99	NO	186.9	94.2	1.29	
29	29 13C-1,2,3,6,7,8-HxCDF	478209.938	0.513	NO	1.03	10.085	33.89	33.90	0.99	0.99	NO	193.4	97.5	1.06	
30	30 13C-2,3,4,6,7,8-HxCDF	385150.969	0.532	NO	0.893	10.085	34.46	34.47	1.01	1.01	NO	179.1	90.3	1.22	
31	31 13C-1,2,3,7,8,9-HxCDF	323052.000	0.506	NO	0.734	10.085	35.37	35.36	1.04	1.04	NO	182.6	92.1	1.48	

Dataset: U:\VG11.PRO\Results\191218K1\191218K1-10.qld

Last Altered: Thursday, December 19, 2019 15:47:17 Pacific Standard Time

Printed: Thursday, December 19, 2019 15:48:28 Pacific Standard Time

Name: 191218K1\_10, Date: 19-Dec-2019, Time: 00:47:28, ID: 1903741-03 PDI-052SC-A-11-12-191015 14.96, Description: PDI-052SC-A-11-12-191015

#	Name	Abs.Resp	RA	n/y	RRF	wL/vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	317478.563	0.434	NO	0.754	10.085	37.08	37.10	1.09	1.09	NO	174.8	88.1	0.874	
33	33 13C-1,2,3,4,7,8,9-HpCDF	213548.485	0.446	NO	0.539	10.085	39.11	39.15	1.14	1.15	NO	164.5	82.9	1.22	
34	34 13C-OCDF	485516.110	0.877	NO	0.593	10.085	41.97	42.00	1.23	1.23	NO	340.2	85.8	1.15	
35	35 37Cl-2,3,7,8-TCDD	170556.750			1.07	10.085	26.15	26.17	1.03	1.03	NO	74.14	93.5	0.108	
36	36 13C-1,2,3,4-TCDD	426582.907	0.815	NO	1.00	10.085	25.45	25.43	1.00	1.00	NO	198.3	100	0.495	
37	37 13C-1,2,3,4-TCDF	661943.501	0.736	NO	1.00	10.085	23.55	23.55	1.00	1.00	NO	198.3	100	0.555	
38	38 13C-1,2,3,4,6,9-HxCDF	477697.312	0.516	NO	1.00	10.085	34.16	34.16	1.00	1.00	NO	198.3	100	1.09	
39	39 Total Tetra-Dioxins				0.925	10.085	24.62		0.00		NO	0.0000		0.0845	0.3342
40	40 Total Penta-Dioxins				0.905	10.085	29.96		0.00		NO	0.0000		0.0569	0.2285
41	41 Total Hexa-Dioxins				0.967	10.085	33.63		0.00		NO	1.347		0.189	1.347
42	42 Total Hepta-Dioxins				1.04	10.085	38.80		0.00		NO	0.0000		0.113	2.089
43	43 Total Tetra-Furans				0.938	10.085	23.61		0.00		NO	0.0000		0.0321	0.1042
44	44 1st Func. Penta-Furans				0.976	10.085	27.04		0.00		NO			0.0108	
45	45 Total Penta-Furans				0.976	10.085	29.27		0.00		NO			0.0162	
46	46 Total Hexa-Furans				1.18	10.085	33.56		0.00		NO	0.0000		0.0283	0.008639
47	47 Total Hepta-Furans				1.13	10.085	37.83		0.00		NO			0.0273	



Dataset: U:\VG11.PRO\Results\191218K1\191218K1-10.qld

Last Altered: Thursday, December 19, 2019 15:47:17 Pacific Standard Time

Printed: Thursday, December 19, 2019 15:48:39 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: 191218K1\_10, Date: 19-Dec-2019, Time: 00:47:28, ID: 1903741-03 PDI-052SC-A-11-12-191015 14.96, Description: PDI-052SC-A-11-12-191015

**Tetra-Dioxins**

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	0.00e0	4.33e5	1.127	YES	24.62	23.77	0.0000	0.2811
2	39 Total Tetra-Dioxins	0.00e0	4.33e5	0.993	YES	24.62	23.69	0.0000	0.05310

**Penta-Dioxins**

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	0.00e0	3.16e5	0.527	YES	29.96	29.54	0.0000	0.2285

**Hexa-Dioxins**

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	5.60e2	0.00e0	1.313	NO	33.63	33.99	0.3905	0.3905
2	41 Total Hexa-Dioxins	1.37e3	0.00e0	1.379	NO	33.63	33.18	0.9566	0.9566

**Hepta-Dioxins**

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	9.62e2	2.25e5	1.247	YES	38.54	38.55	0.0000	0.7423
2	42 Total Hepta-Dioxins	0.00e0	2.25e5	0.871	YES	38.80	37.51	0.0000	1.346

**Tetra-Furans**

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	0.00e0	5.25e5	0.891	YES	23.61	20.86	0.0000	0.1042

**Penta-Furans function 1**

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Dataset: U:\VG11.PRO\Results\191218K1\191218K1-10.qld

Last Altered: Thursday, December 19, 2019 15:47:17 Pacific Standard Time

Printed: Thursday, December 19, 2019 15:48:39 Pacific Standard Time

Name: 191218K1\_10, Date: 19-Dec-2019, Time: 00:47:28, ID: 1903741-03 PDI-052SC-A-11-12-191015 14.96, Description: PDI-052SC-A-11-12-191015

**Penta-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

**Hexa-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	12 1,2,3,6,7,8-HxCDF	5.02e1	4.78e5	3.928	YES	33.91	33.90	0.0000	0.0086...

**Hepta-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

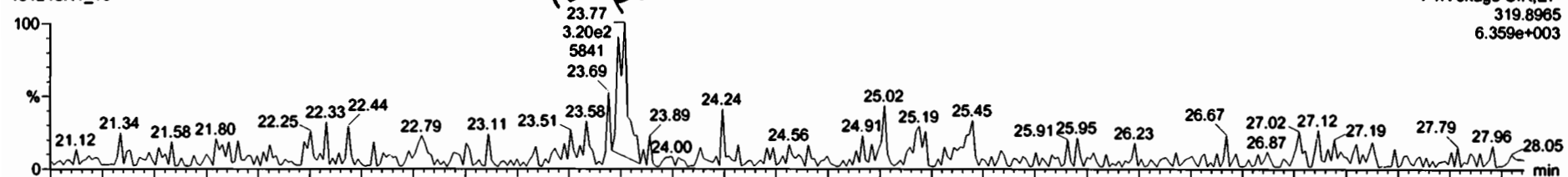
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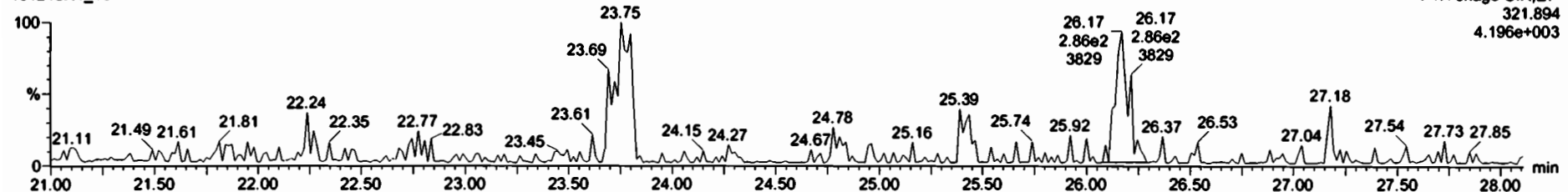
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**2,3,7,8-TCDD**

191218K1\_10

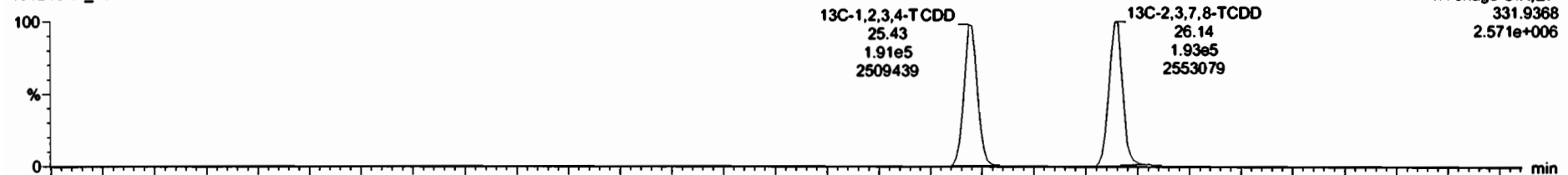


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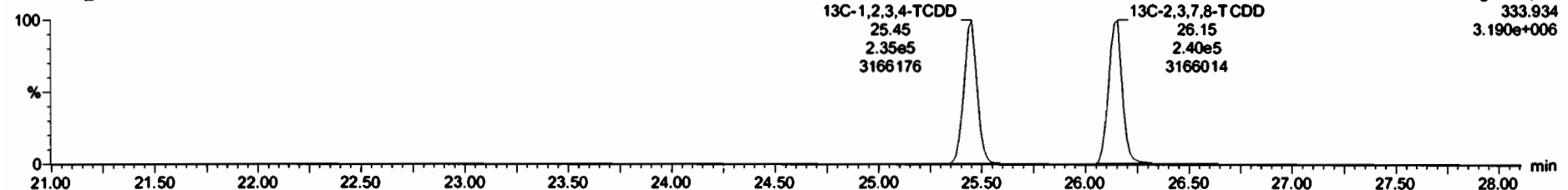


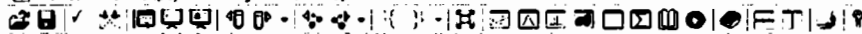
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191218K1\_10



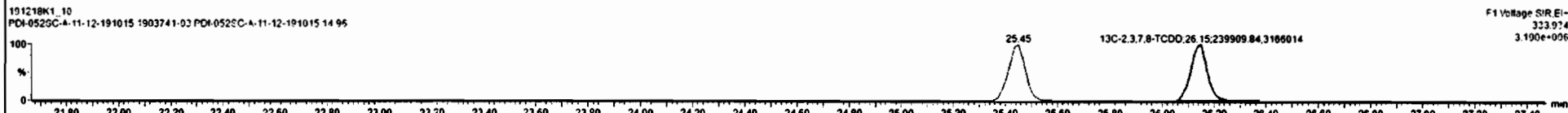
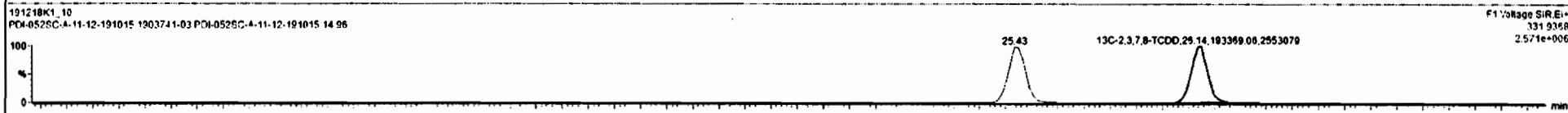
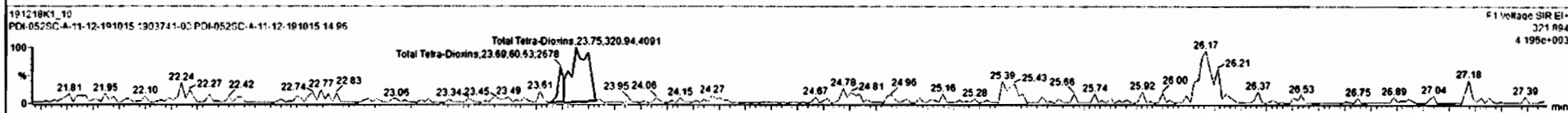
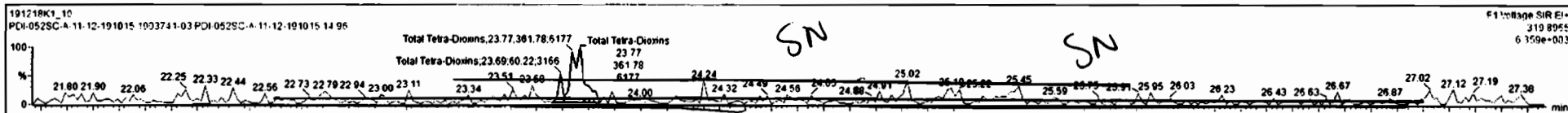
191218K1\_10





#	Name	Resp	RA	aly	RPF	rtPred	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.0000	24.62		0.0000		NO	0.0000		0.0000	0.3300
40	Total Penta-Dioxins				0.0000	29.95		0.0000		NO			0.0569	
41	Total Hexa-Dioxins				0.0075	33.63		0.0000		NO	1.030		0.189	1.030
42	Total Hepta-Dioxins				1.0275	36.80		0.0000		NO	0.0000		0.111	1.564
43	Total Tetra-Furans				0.0376	23.61		0.0000		NO			0.0321	
44	1st Func. Penta-Furans				0.9762	27.04		0.0000		NO			0.0106	
45	Total Penta-Furans				0.9762	29.27		0.0000		NO			0.0162	
46	Total Hexa-Furans				1.1880	33.56		0.0000		NO			0.0283	
47	Total Hepta-Furans				1.1380	37.83		0.0000		NO			0.0271	

#	Name	Pred RT	RT	rel Resp	rel Resp	1 <sup>st</sup> Ratio (Pred)	RA	aly	EMPC	Conc.
1	Total Tetra-Dioxins	24.62	23.77	3.618e2	3.209e2	0.770	1.13	YES	0.28110	0.00000
2	Total Tetra-Dioxins	24.62	23.69	6.022e1	6.063e1	0.770	0.99	YES	0.053105	0.00000



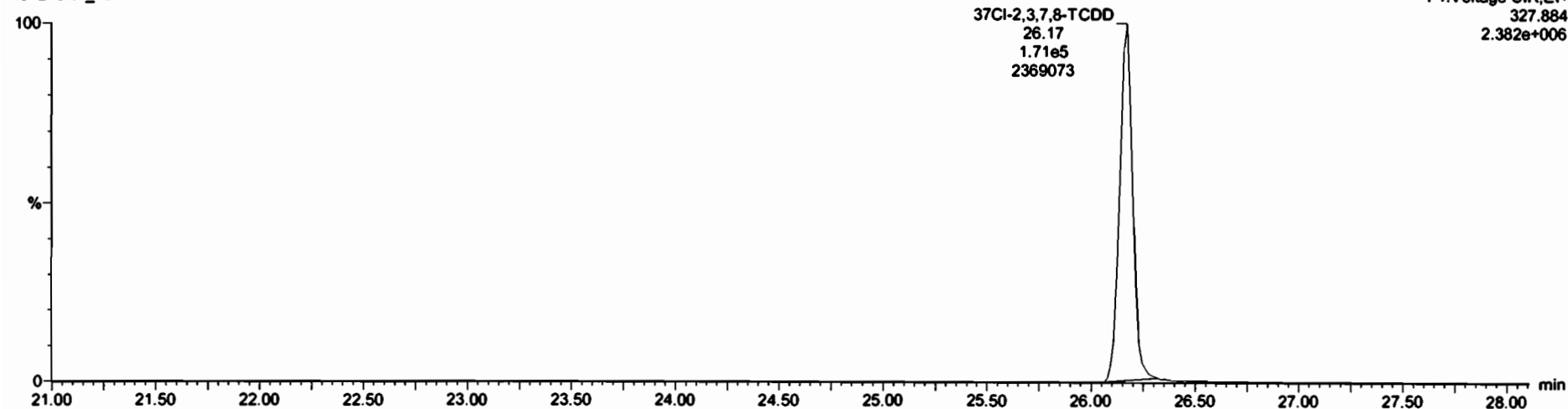
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Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

Name: 191218K1\_10, Date: 19-Dec-2019, Time: 00:47:28, ID: 1903741-03 PDI-052SC-A-11-12-191015 14.96, Description: PDI-052SC-A-11-12-191015

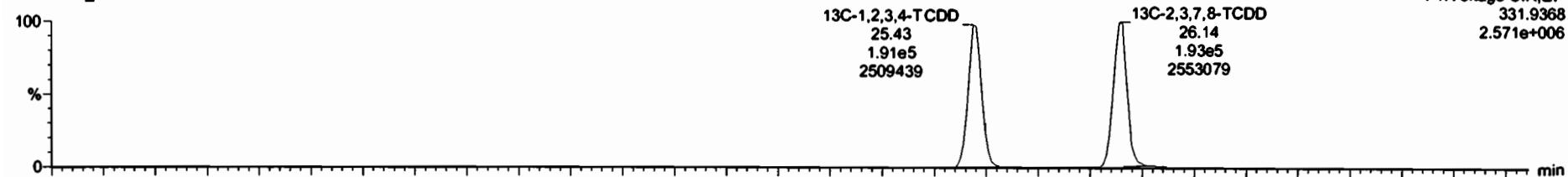
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191218K1\_10

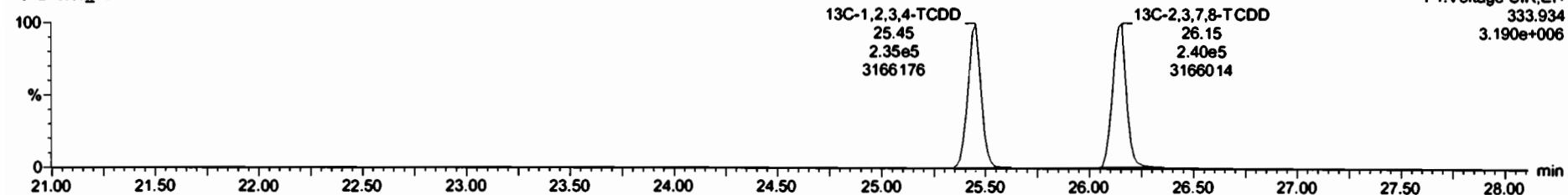


**13C-1,2,3,4-TCDD**

191218K1\_10



191218K1\_10



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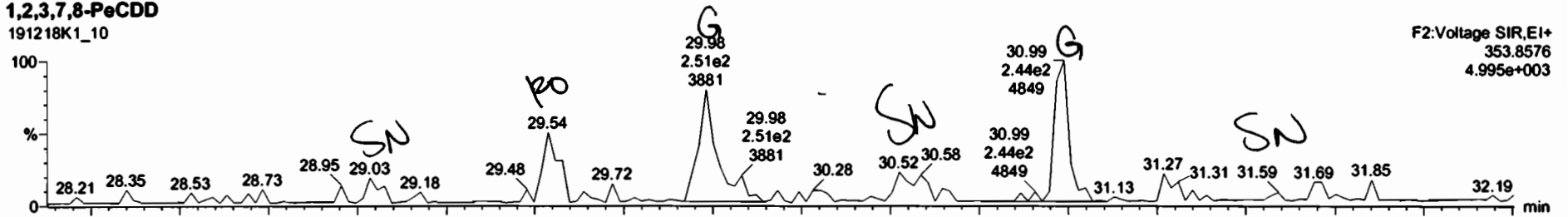
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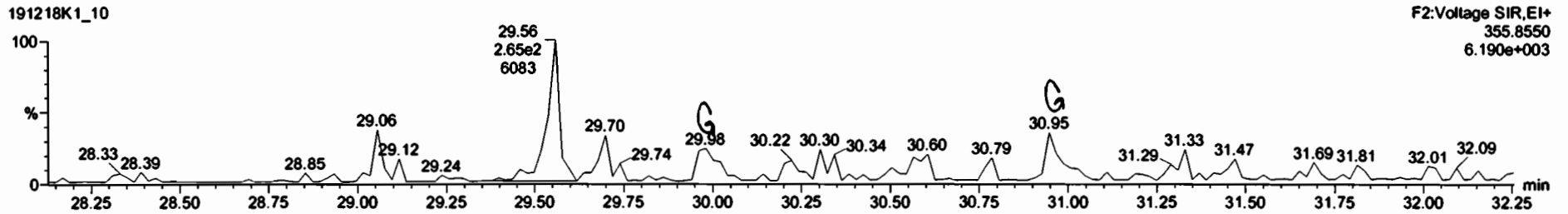
Name: 191218K1\_10, Date: 19-Dec-2019, Time: 00:47:28, ID: 1903741-03 PDI-052SC-A-11-12-191015 14.96, Description: PDI-052SC-A-11-12-191015

1,2,3,7,8-PeCDD

191218K1\_10

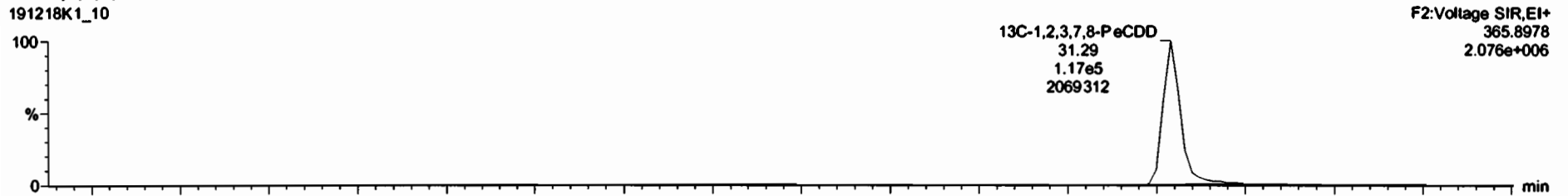


191218K1\_10

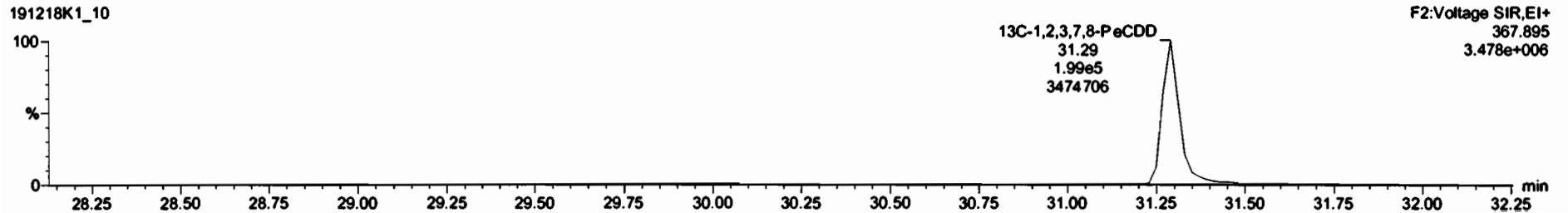


13C-1,2,3,7,8-PeCDD

191218K1\_10



191218K1\_10





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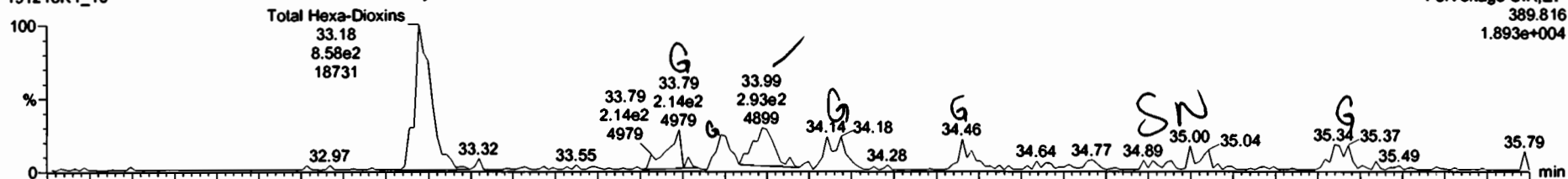
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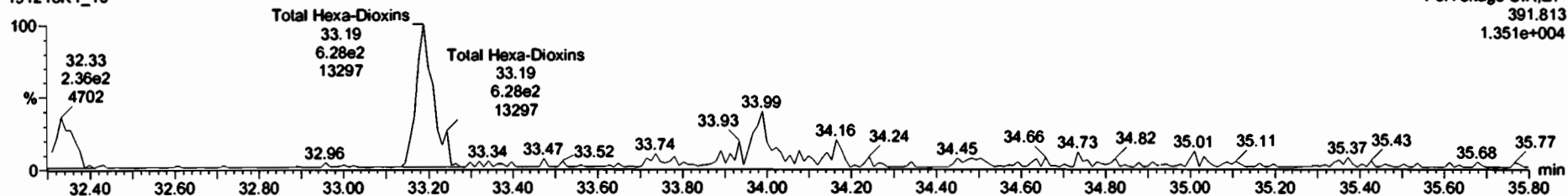
Name: 191218K1\_10, Date: 19-Dec-2019, Time: 00:47:28, ID: 1903741-03 PDI-052SC-A-11-12-191015 14.96, Description: PDI-052SC-A-11-12-191015

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

191218K1\_10

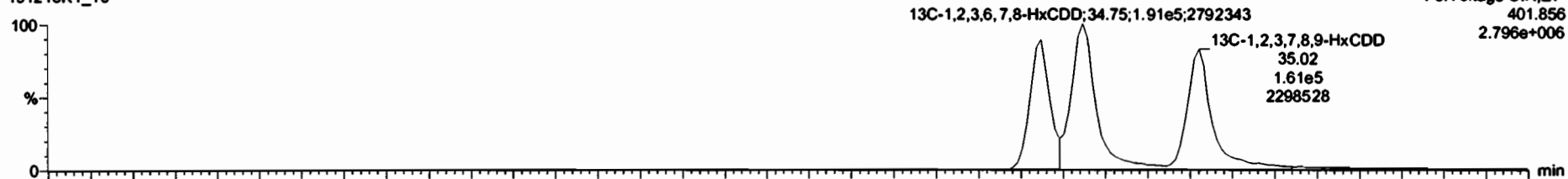


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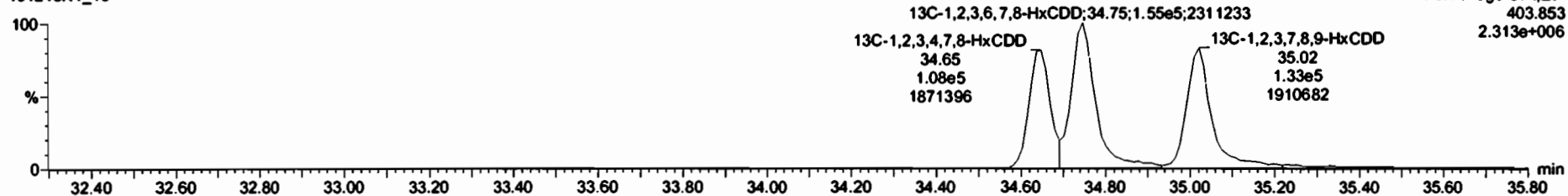


13C-1,2,3,4,7,8-HxCDD

191218K1\_10



191218K1\_10

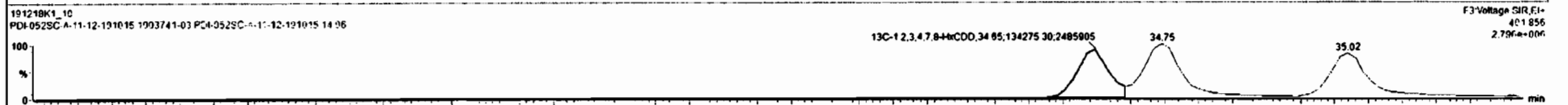
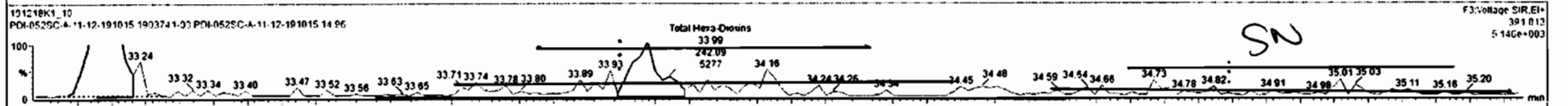
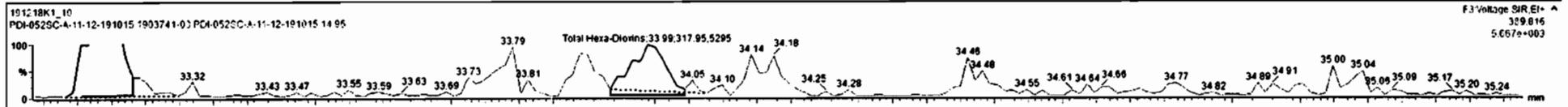






#	Name	Resp	RA	n/y	RRF	nd/val	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
39	Total Tetra-Chlorine				0.8249	10.085	24.62		0.000	NO	0.0000		0.0845	0.3342	
40	Total Penta-Chlorine				0.9046	10.085	29.98		0.000	NO	0.0000		0.0569	0.2285	
41	Total Hexa-Chlorine				0.8678	10.085	33.83		0.000	NO	1.347		0.100	1.347	
42	Total Hepta-Chlorine				1.0375	10.085	38.80		0.000	NO	0.0000		0.111	1.564	
43	Total Tetra-Furane				0.9376	10.085	23.61		0.000	NO				0.0321	
44	1st Func. Penta-Furane				0.9782	10.085	27.04		0.000	NO				0.0708	
45	Total Penta-Furane				0.9782	10.085	29.27		0.000	NO				0.0162	
46	Total Hexa-Furane				1.1888	10.085	33.56		0.000	NO				0.0283	
47	Total Hepta-Furane				1.1380	10.085	37.83		0.000	NO				0.0271	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Chlorine	33.63	33.18	7.953e2	5.768e2	1.240	1.38	NO	0.95682	0.95682
2	41 Total Hexa-Chlorine	33.63	33.99	3.180e2	2.421e2	1.240	1.31	NO	0.39048	0.39048



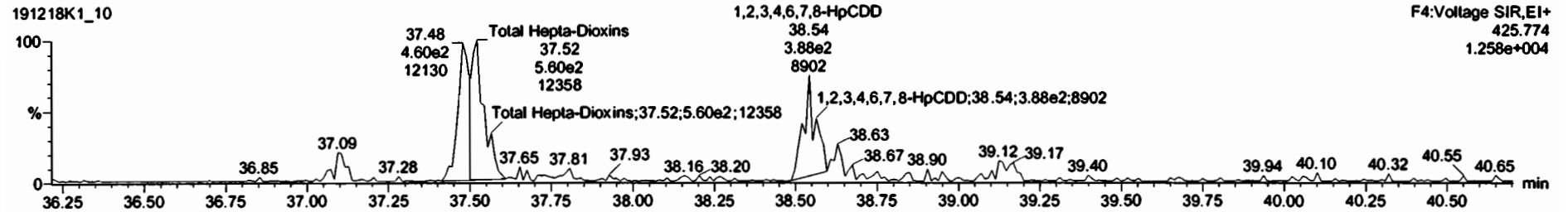
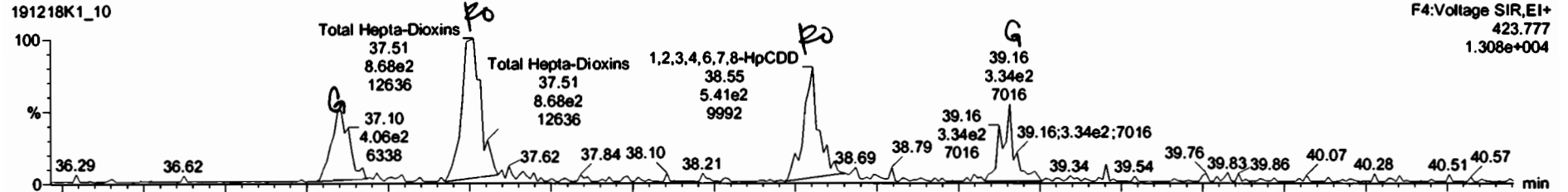
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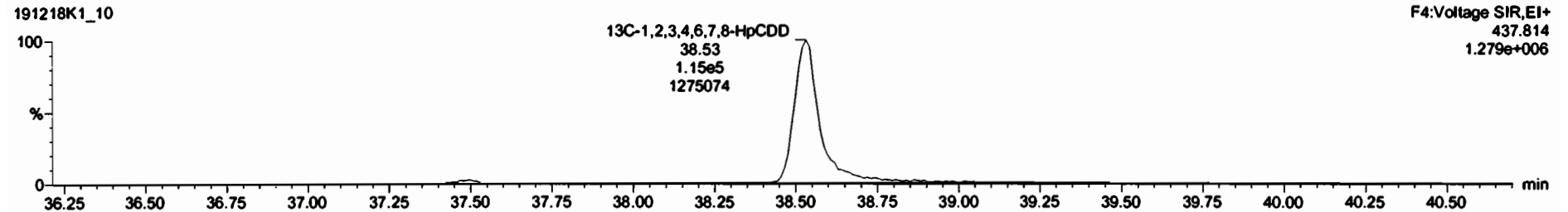
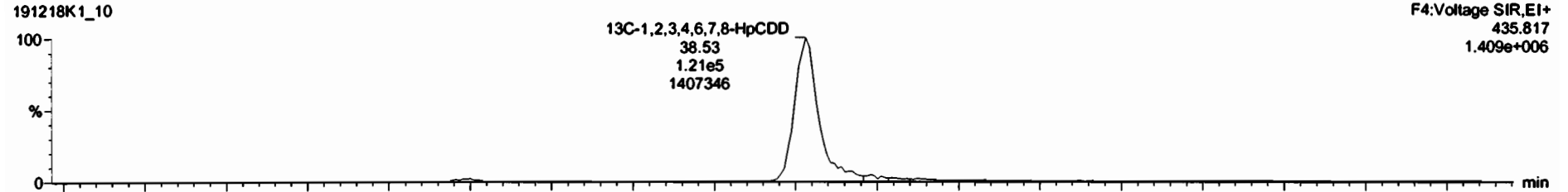
Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

Name: 191218K1\_10, Date: 19-Dec-2019, Time: 00:47:28, ID: 1903741-03 PDI-052SC-A-11-12-191015 14.96, Description: PDI-052SC-A-11-12-191015

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



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

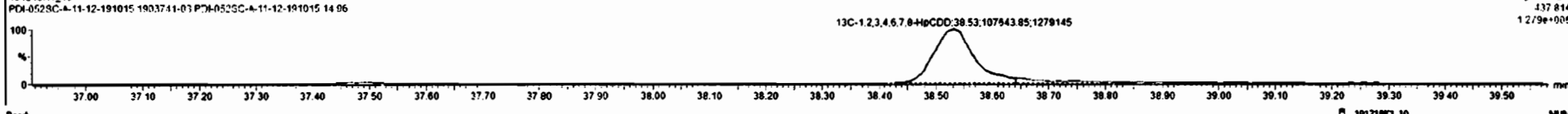
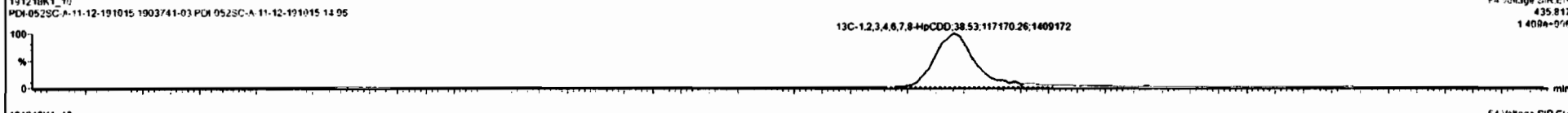
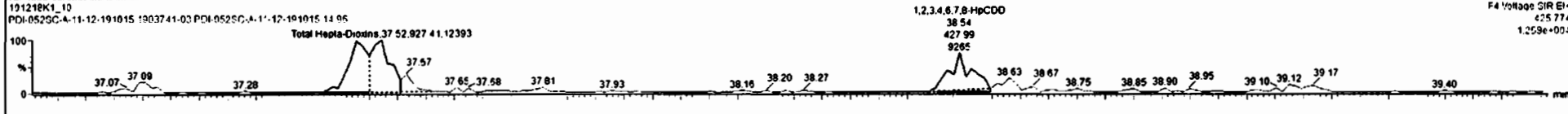
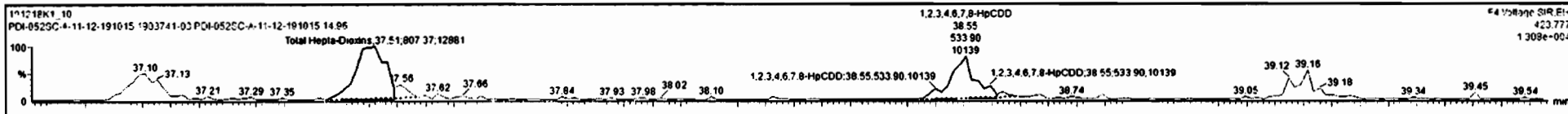




191218K1\_10 191218K1\_10 191218K1\_10 191218K1\_10 191218K1\_10 191218K1\_10 191218K1\_10 191218K1\_10 191218K1\_10 191218K1\_10

#	Name	Resp	RA	aly	RF	Wt/WT	Pred RT	RT	Pred.R.	RTT	RTT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	10.085	24.62		0.000		NO	0.0000		0.0045	0.3342
40	Total Penta-Dioxins				0.9046	10.085	29.95		0.000		NO	0.0000		0.0569	0.2285
41	Total Hexa-Dioxins				0.9675	10.085	33.63		0.000		NO	1.347		0.180	1.347
42	Total Hepta-Dioxins				1.0076	10.085	38.00		0.000		NO	0.0000		0.113	2.000
43	Total Tetra-Furans				0.9376	10.085	23.81		0.000		NO			0.0321	
44	1st Func. Penta-Furans				0.9762	10.085	27.84		0.000		NO			0.0108	
45	Total Penta-Furans				0.9762	10.085	29.27		0.000		NO			0.0162	
46	Total Hexa-Furans				1.1008	10.085	33.50		0.000		NO			0.0283	
47	Total Hepta-Furans				1.1360	10.085	37.83		0.000		NO			0.0271	

#	Name	Pred RT	RT	wt Resp	wt Conc	1st Ratio (Pred)	RA	aly	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDD	38.54	38.65	5.338e2	4.280e2	1.040	1.2F	YES	0.74232	0.00000
2	Total Hepta-Dioxins	38.00	37.51	0.074e2	0.274e2	1.040	0.87	YES	1.3465	0.00000

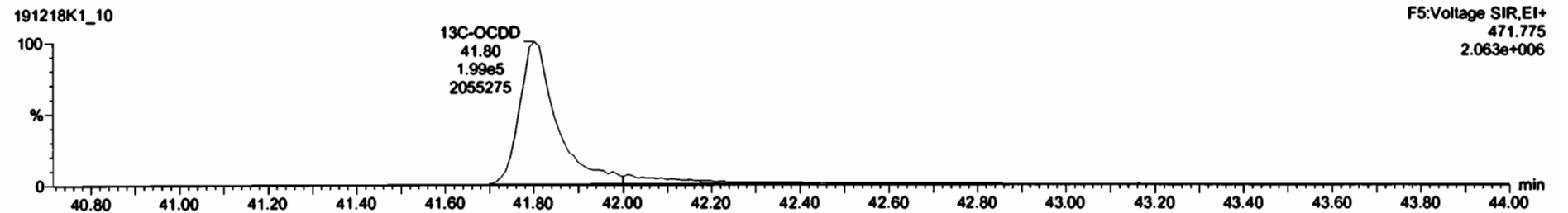
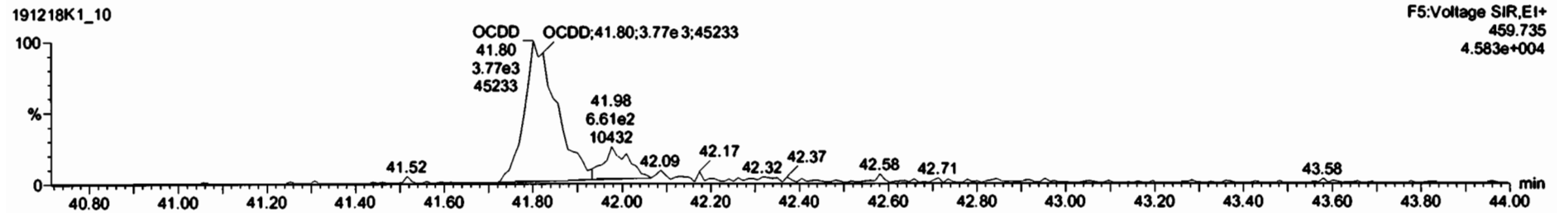
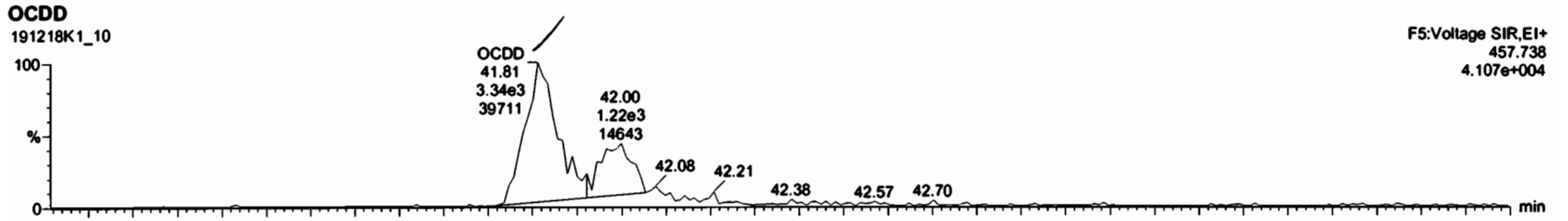


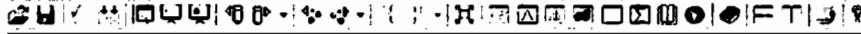
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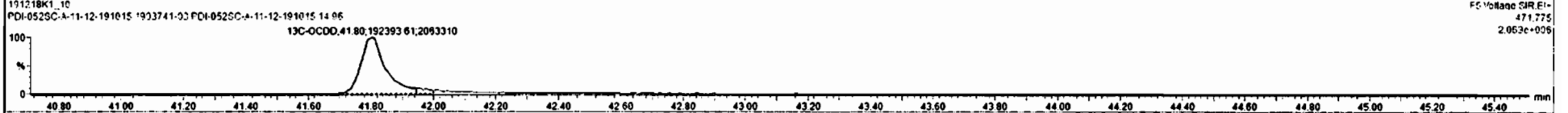
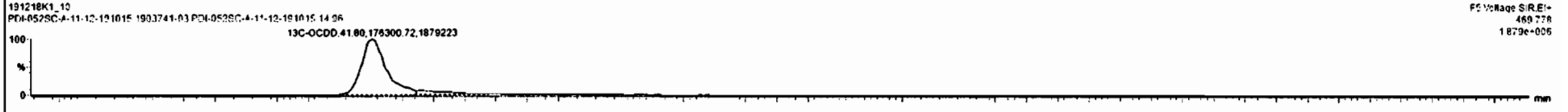
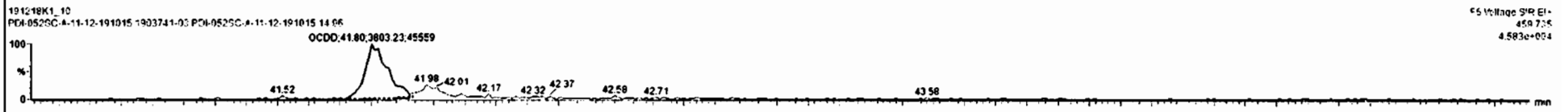
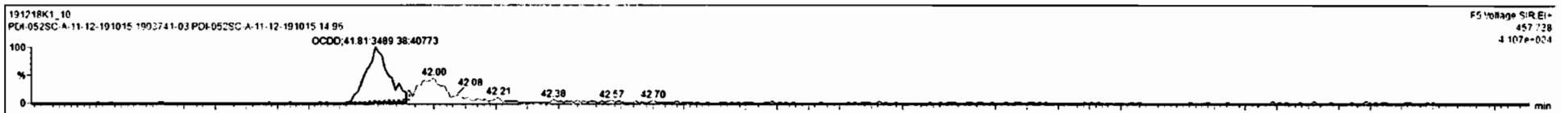
Name: 191218K1\_10, Date: 19-Dec-2019, Time: 00:47:28, ID: 1903741-03 PDI-052SC-A-11-12-191015 14.96, Description: PDI-052SC-A-11-12-191015





#	Name	Resp	IS Resp	IS#	RA	nly	RRP	rtWtd	Pred RT	RT	RRT	Pred RRT	Check RRT	Canc	%Rec	DL	EMPC	Primary Flags	No Sat.	Peak#
1	1,2,3,7,8-TCDD		4.33e5	18		YES		10.085	29.17							0.138				NO
2	1,2,3,7,8-PeCDD		3.16e5	19		YES		10.085	31.31				1.001	YES		0.131				NO
3	1,2,3,4,7,8-HxCDD		2.42e5	20		YES		10.085	34.69				1.000	YES		0.175				NO
4	1,2,3,6,7,8-HxCDD		3.48e5	21		YES		10.085	34.75				1.000	YES		0.171				NO
5	1,2,3,7,8,9-HxCDD		2.94e5	22		YES		10.085	35.06				1.001	YES		0.204				NO
6	1,2,3,4,6,7,8-HpCDD	9.29e2	2.36e5	23	1.39	YES		10.085	38.54	38.55	1.001	1.000	NO	0.7511		0.260	0.6401	bb		NO
7	OCDD	7.33e5	3.68e5	24	0.82	NO		10.085	41.89	41.81	1.000	1.000	NO	8.673		0.089	0.073	BB	BB	NO
8	1,2,3,7,8-TCDF		5.25e5	25		YES		10.085	25.18				1.001	YES		0.0774				NO
9	1,2,3,7,8-PeCDF		4.49e5	26		YES		10.085	30.00				1.001	YES		0.0523				NO

#	Name	Pred RT	RT	rt Resp	rt2 Resp	Pred RA	RA	nly	EMPC	Canc	Primer	1° Det.
1												

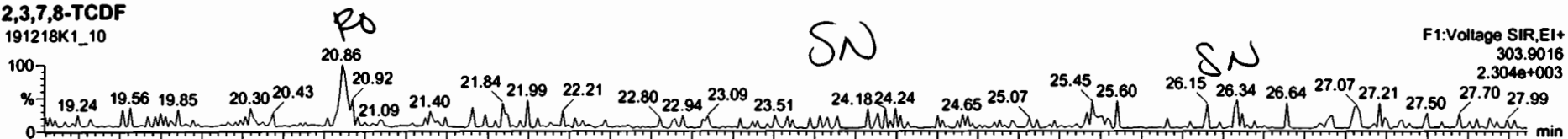


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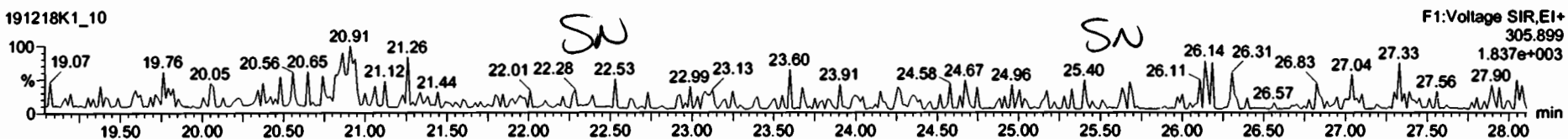
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Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

Name: 191218K1\_10, Date: 19-Dec-2019, Time: 00:47:28, ID: 1903741-03 PDI-052SC-A-11-12-191015 14.96, Description: PDI-052SC-A-11-12-191015

**2,3,7,8-TCDF**  
191218K1\_10

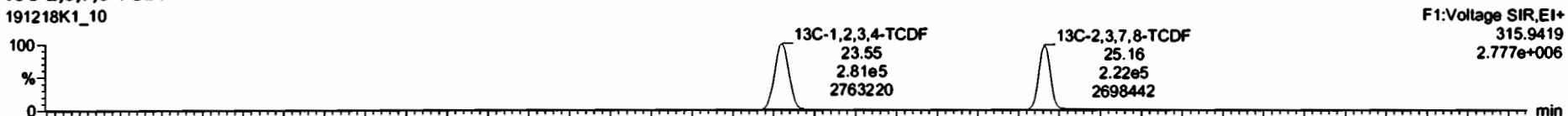


191218K1\_10

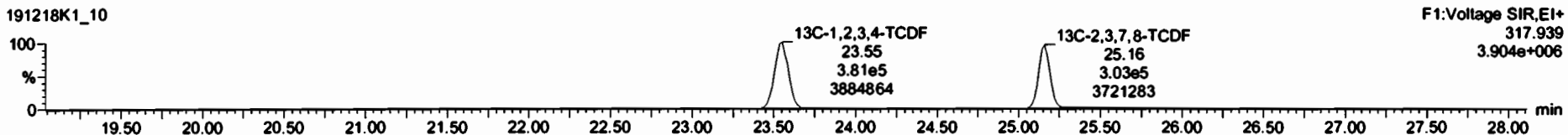


**13C-2,3,7,8-TCDF**

191218K1\_10

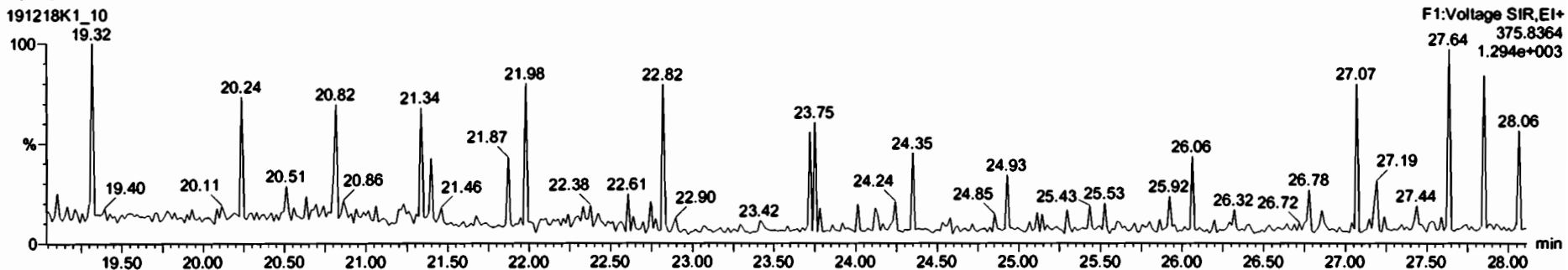


191218K1\_10



**DPE1**

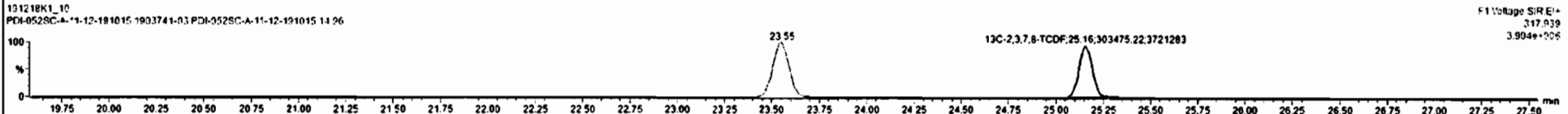
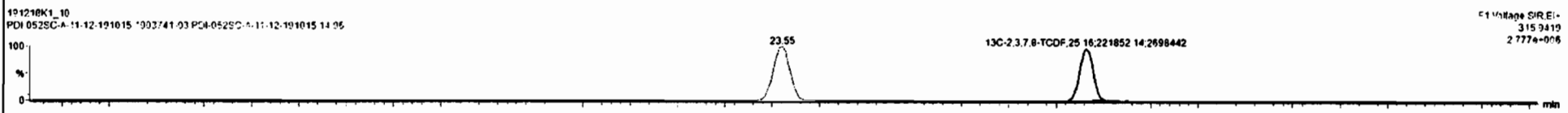
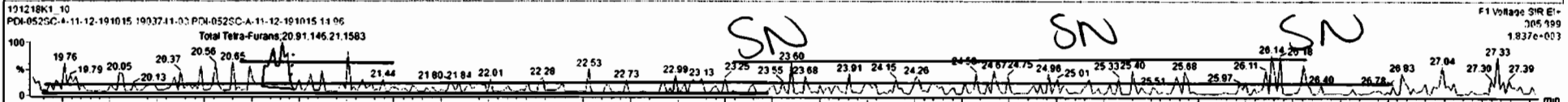
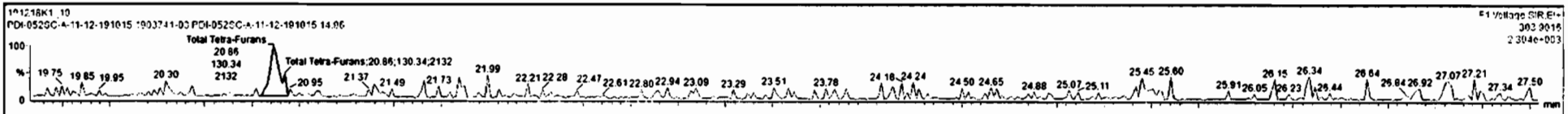
191218K1\_10





#	Name	Resp	RA	nly	RIF	uRef	Pred RT	RT	Pred.R.	RRT	RRT Fst	Conc.	%Rec	DL	EMPC
39	Total Tetra-Oxans				0.9249	10.085	24.82		0.000		NO	0.0000		0.0845	0.3342
40	Total Penta-Oxans				0.9646	10.085	29.99		0.000		NO	0.0000		0.0569	0.2285
41	Total Hexa-Oxans				0.9875	10.085	33.83		0.000		NO	1.347		0.188	1.347
42	Total Hepta-Oxans				1.8375	10.085	38.89		0.000		NO	0.0608		0.113	2.089
43	Total Tetra-Furans				0.8998	10.085	23.61		0.000		NO	0.0000		0.8921	0.1042
44	1st Func. Penta-Furans				0.9782	10.085	27.04		0.000		NO			0.0188	
45	Total Penta-Furans				0.9782	10.085	29.27		0.000		NO			0.0152	
46	Total Hexa-Furans				1.1888	10.085	33.58		0.000		NO			0.0283	
47	Total Hepta-Furans				1.1300	10.085	37.83		0.000		NO			0.0271	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	nly	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	20.88	1.303e2	1.462e2	0.770	0.89	YES	0.10419	0.00000



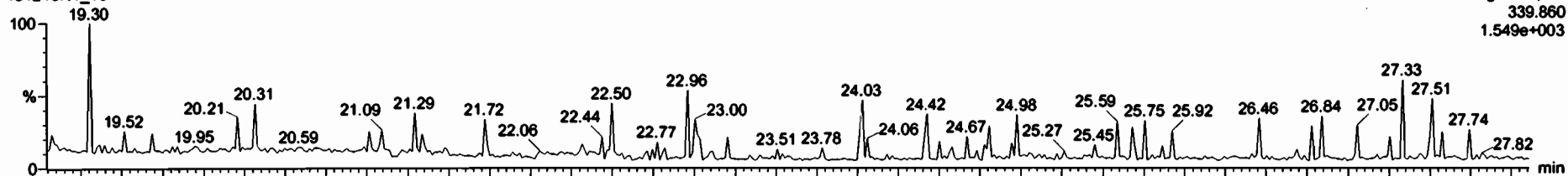
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Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

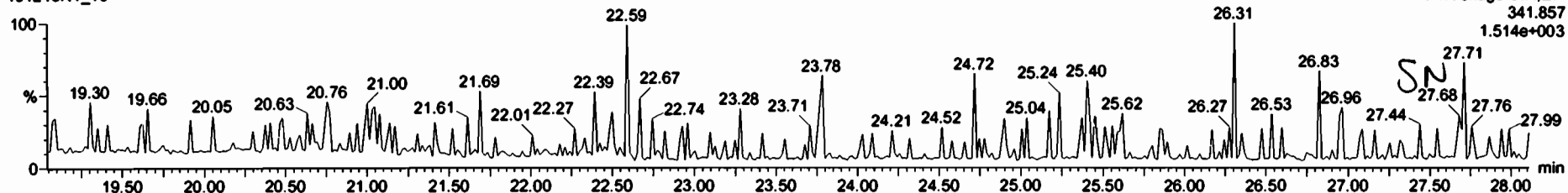
Name: 191218K1\_10, Date: 19-Dec-2019, Time: 00:47:28, ID: 1903741-03 PDI-052SC-A-11-12-191015 14.96, Description: PDI-052SC-A-11-12-191015

1st Func. Penta-Furans

191218K1\_10

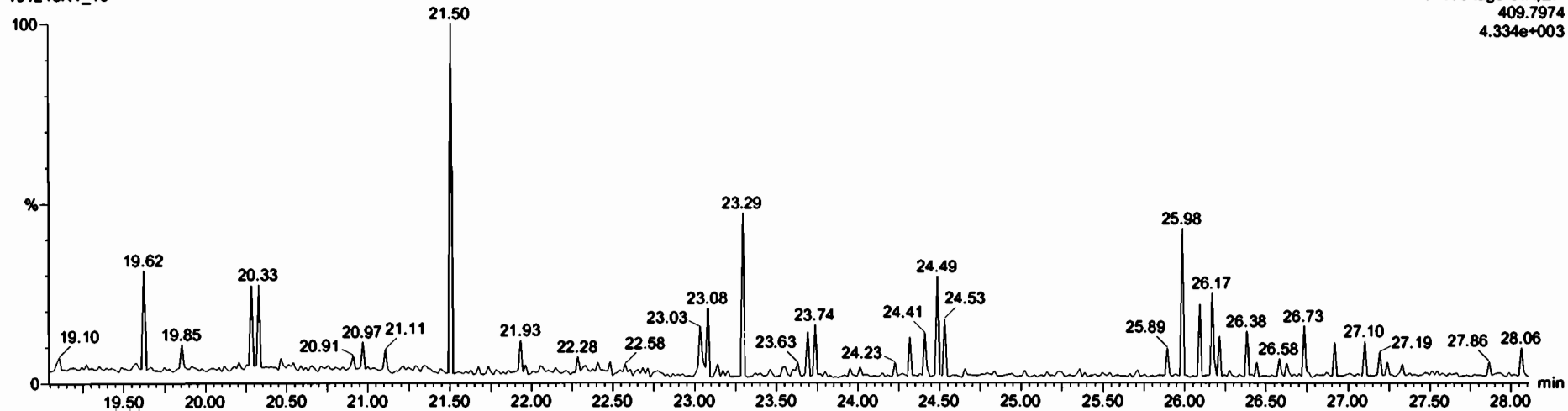


191218K1\_10



DPE6

191218K1\_10





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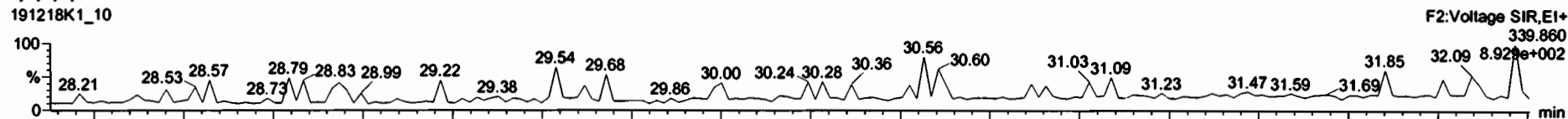
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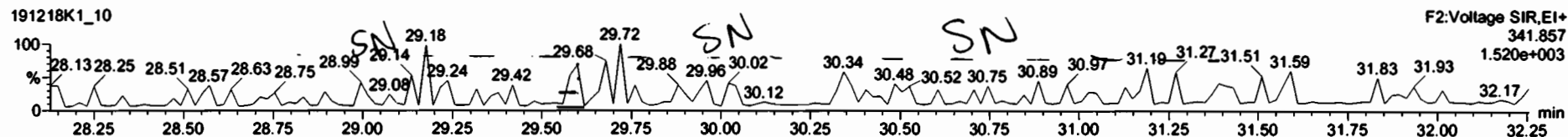
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1,2,3,7,8-PeCDF

191218K1\_10

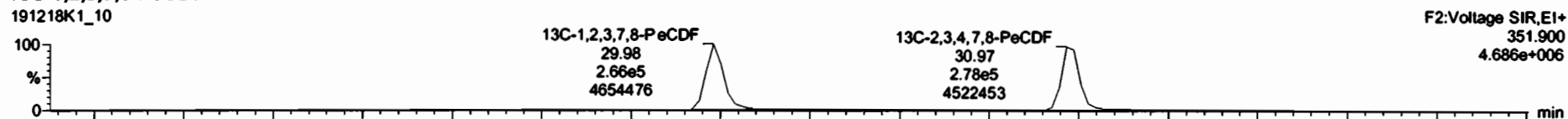


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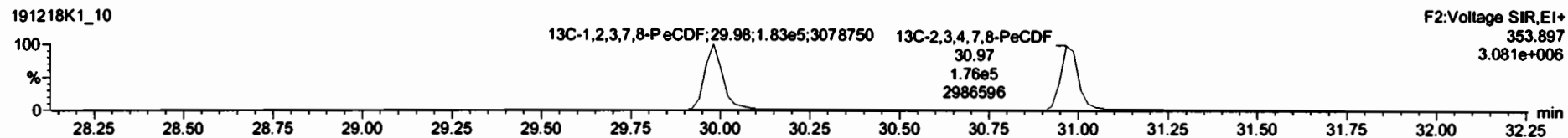


13C-1,2,3,7,8-PeCDF

191218K1\_10

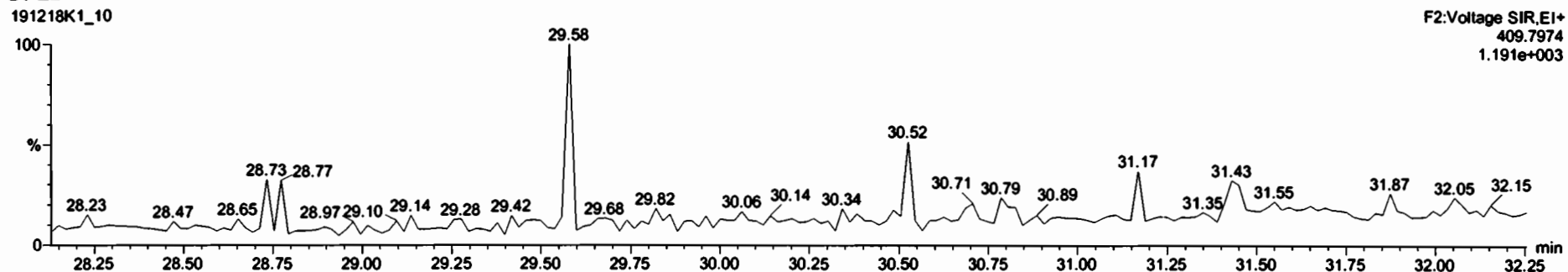


191218K1\_10



DPE2

191218K1\_10



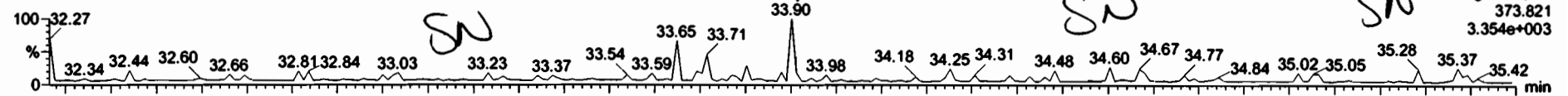
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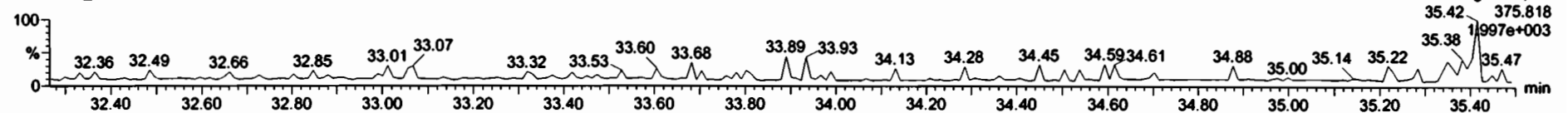
Name: 191218K1\_10, Date: 19-Dec-2019, Time: 00:47:28, ID: 1903741-03 PDI-052SC-A-11-12-191015 14.96, Description: PDI-052SC-A-11-12-191015

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

191218K1\_10

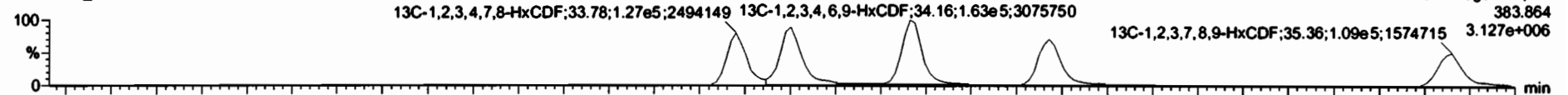


191218K1\_10

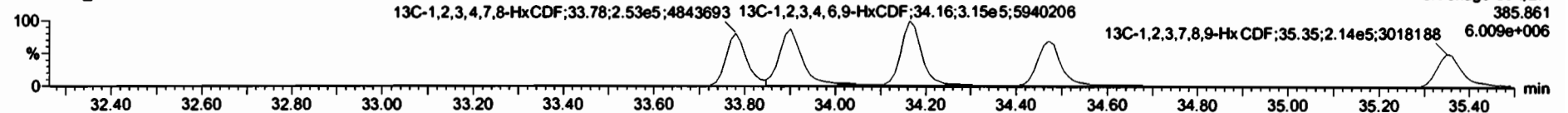


13C-1,2,3,4,7,8-HxCDF

191218K1\_10

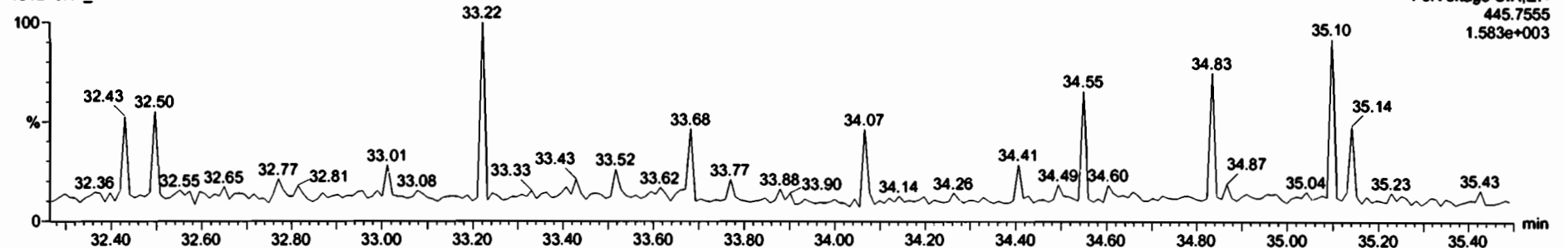


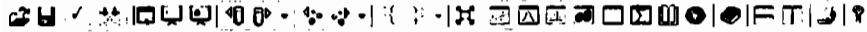
191218K1\_10



DPE3

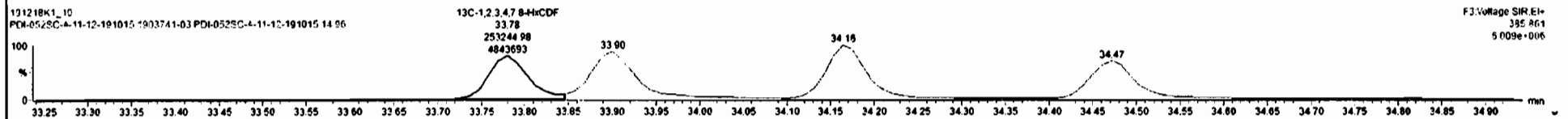
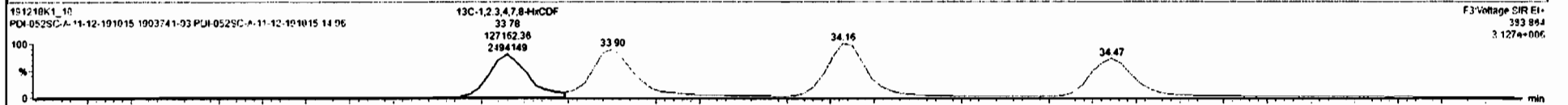
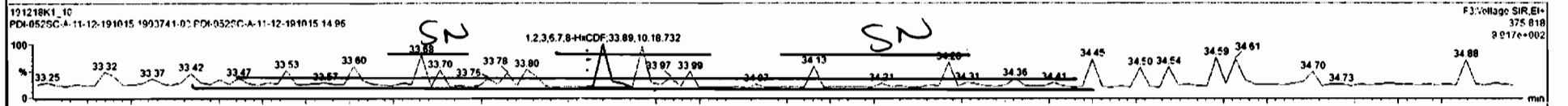
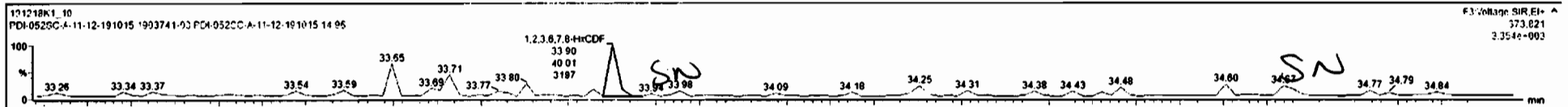
191218K1\_10





#	Name	Resp	RA	nly	RSP	wtVal	Pred RT	RT	Pred R..	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	10.085	24.62		0.000		NO	0.0000		0.0845	0.3342
40	Total Penta-Dioxins				0.9046	10.085	29.96		0.000		NO	0.0000		0.0569	0.2285
41	Total Hexa-Dioxins				0.9875	10.085	33.03		0.000		NO	1.347		0.189	1.347
42	Total Hepta-Dioxins				1.0375	10.085	38.80		0.000		NO	0.0000		0.113	2.089
43	Total Tetra-Furans				0.8378	10.085	23.61		0.000		NO	0.0000		0.0321	0.1042
44	1st Func. Penta-Furans				0.9782	10.085	27.04		0.000		NO			0.0188	
45	Total Penta-Furans				0.9782	10.085	29.27		0.000		NO			0.0162	
46	Total Hexa-Furans				1.1886	10.085	33.98		0.000		NO	0.0000		0.0283	0.0688
47	Total Hepta-Furans				1.1300	10.085	37.83		0.000		NO			0.0271	

#	Name	Pred RT	RT	n1 Resp	n2 Resp	S <sup>2</sup> Ratio (Pred)	RA	nly	EMPC	Conc.
1	1,2,3,6,7,8-HxCDF	33.91	33.90	4.001e1	1.018e1	1.240	3.93	YES	0.00803	0.00000



Custom Reporting: Select reports to generate

Type here to search



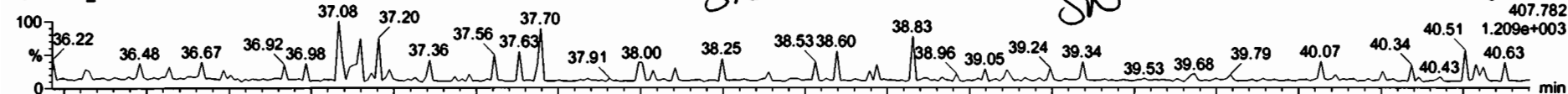
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Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

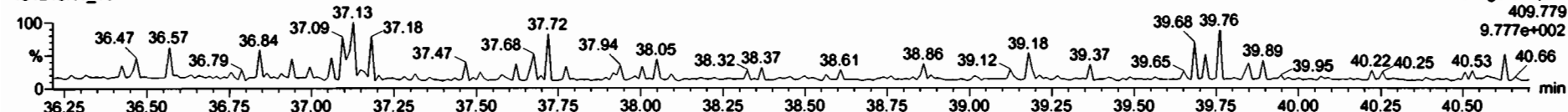
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1,2,3,4,6,7,8-HpCDF

191218K1\_10

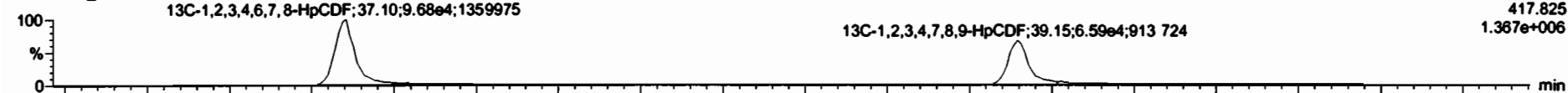


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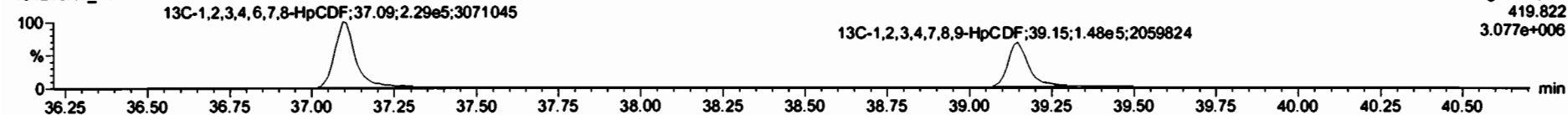


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191218K1\_10

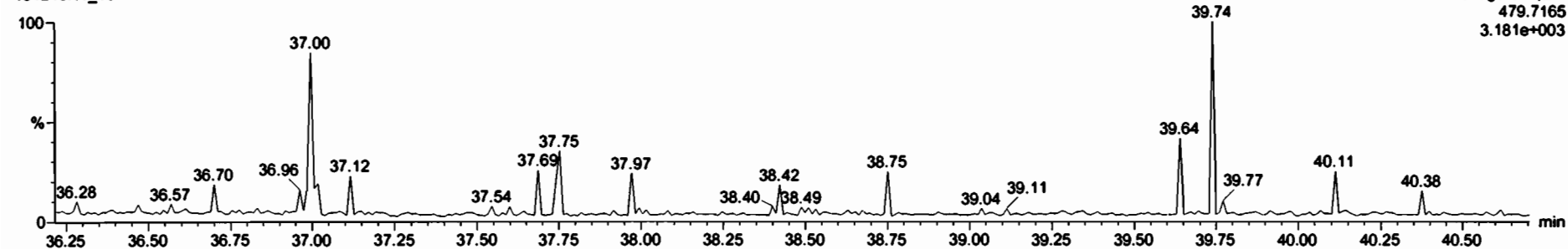


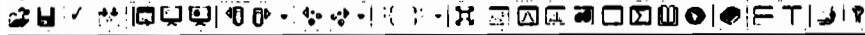
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DPE4

191218K1\_10

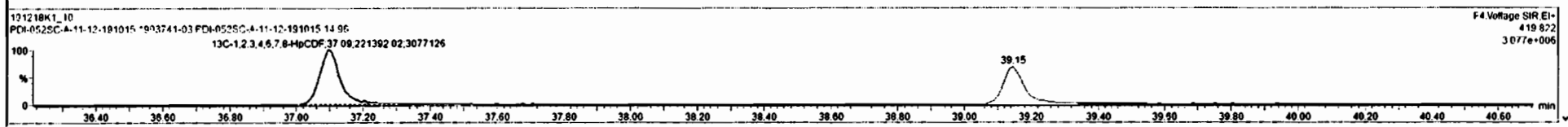
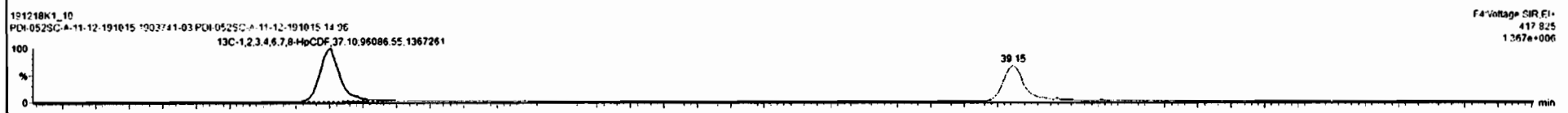
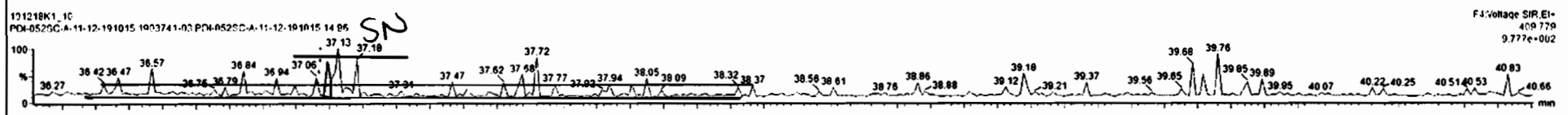
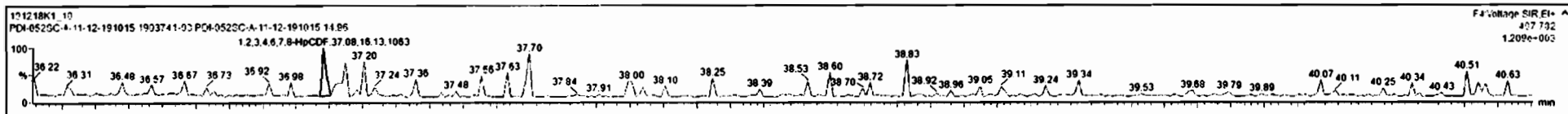




191218K1\_10 191218K1\_10 191218K1\_10 191218K1\_10 191218K1\_10 191218K1\_10 191218K1\_10 191218K1\_10 191218K1\_10 191218K1\_10

#	Name	Resp	RA	ny	RDF	wtvol	Pred.RT	RT	Pred.R.	RRT	RRT Err	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	10.085	24.62		0.000		NO	0.0000	0.0845	0.5342	
40	Total Penta-Dioxins				0.9048	10.085	29.96		0.000		NO	0.0000	0.0569	0.2285	
41	Total Hexa-Dioxins				0.9675	10.085	33.63		0.000		NO	1.347	0.189	1.347	
42	Total Hepta-Dioxins				1.0375	10.085	38.80		0.000		NO	0.0000	0.113	2.089	
43	Total Tetra-Furans				0.9376	10.085	23.61		0.000		NO	0.0000	0.0321	0.1042	
44	1st Func. Penta-Furans				0.9782	10.085	27.04		0.000		NO			0.0198	
45	Total Penta-Furans				0.9782	10.085	29.27		0.000		NO			0.0162	
46	Total Hexa-Furans				1.1080	10.085	33.58		0.000		NO	0.0000	0.0283	0.0006	
47	Total Hepta-Furans				1.1380	10.085	37.65		0.000		NO	0.0000	0.0273	0.0009	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	ny	EMPC	Conc
1	1,2,3,4,6,7,8-HpCDF	37.14	37.08	1.613e1	8.799e0	1.040	1.63	YES	0.00992	0.00000



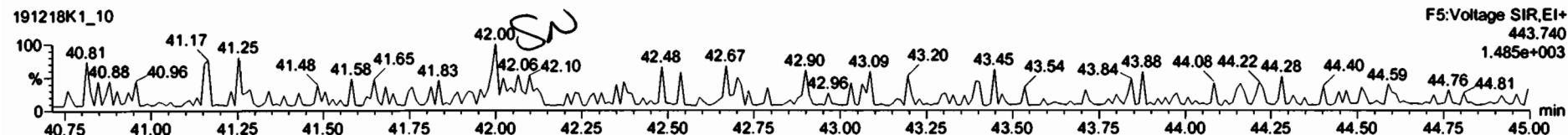
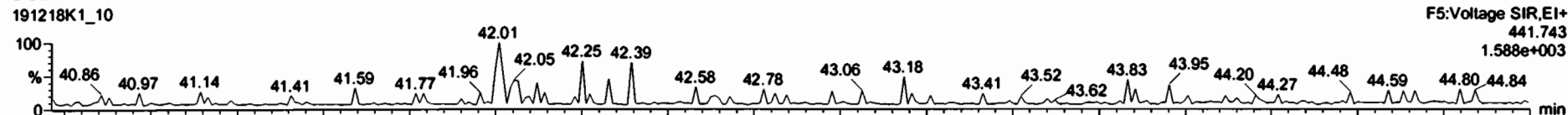
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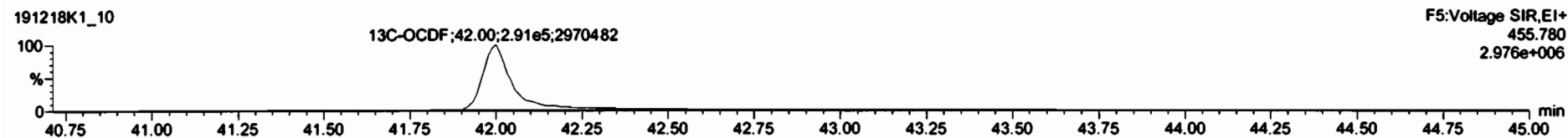
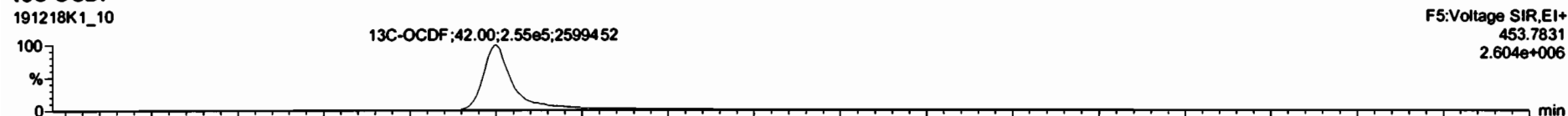
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Name: 191218K1\_10, Date: 19-Dec-2019, Time: 00:47:28, ID: 1903741-03 PDI-052SC-A-11-12-191015 14.96, Description: PDI-052SC-A-11-12-191015

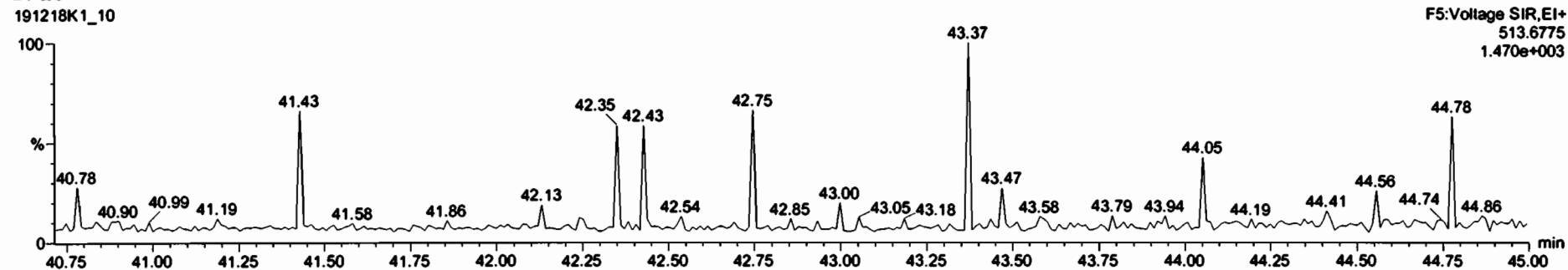
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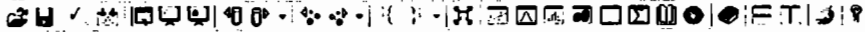


**13C-OCDF**



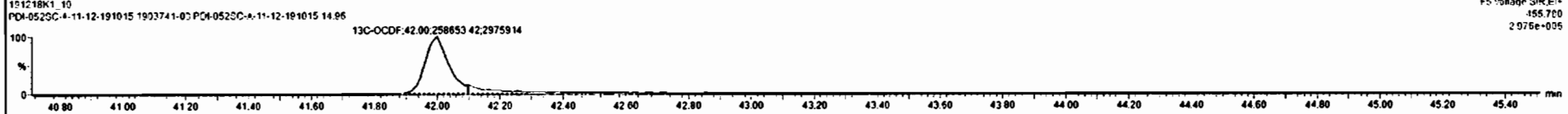
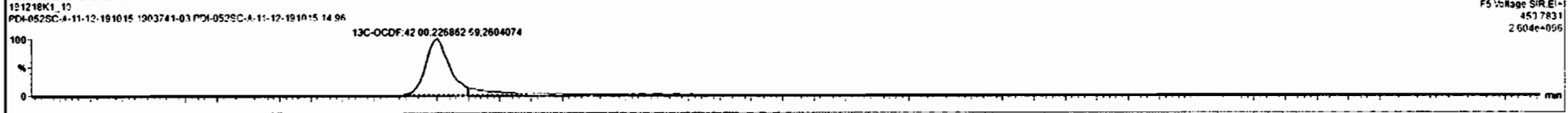
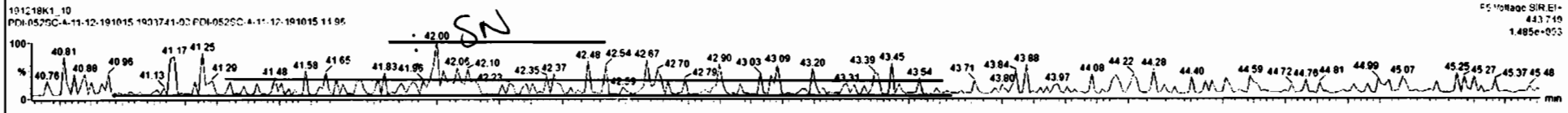
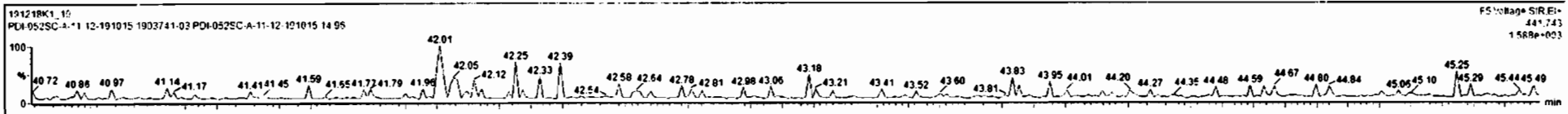
**DPE5**





#	Name	Resp	S Resp	RF	RA	aly	RP	wt/wt	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC	Primary Flag	No Sel.	Posib
12	12	1.2,3,6,7,8-HxCDF	4.78e5	29		YES	10.085	33.91				1.000	YES			0.0369				NO
13	13	2,3,4,6,7,8-HxCDF	3.85e5	30		YES	10.085	34.51				1.001	YES			0.0442				NO
14	14	1,2,3,7,8,9-HxCDF	3.23e5	31		YES	10.085	35.38				1.000	YES			0.0855				NO
15	15	1,2,3,4,6,7,8-HpCDF	3.28e5	32		YES	10.085	37.14				1.001	YES			0.0428				NO
16	16	1,2,3,4,7,8,9-HpCDF	2.14e5	33		YES	10.085	39.15				1.000	YES			0.0590				NO
17	17	OCDF	4.88e5	34		YES	10.085	42.00				1.000	YES			0.012				NO
18	18	13C-2,3,7,8-TCDD	4.33e5	36	0.81	NO	10.085	26.13	26.14	1.028	1.027	NO	NO	192.0	95.8	0.471		bb		NO
19	19	13C-1,2,3,7,8-PeCDD	3.18e5	36	0.59	NO	10.085	31.27	31.29	1.238	1.238	NO	NO	196.1	99.9	0.758		bb		NO
20	20	13C-1,2,3,4,7,8-HxCDD	2.42e5	38	1.24	NO	10.085	34.64	34.65	1.014	1.014	NO	NO	155.6	78.4	0.872		bb		NO

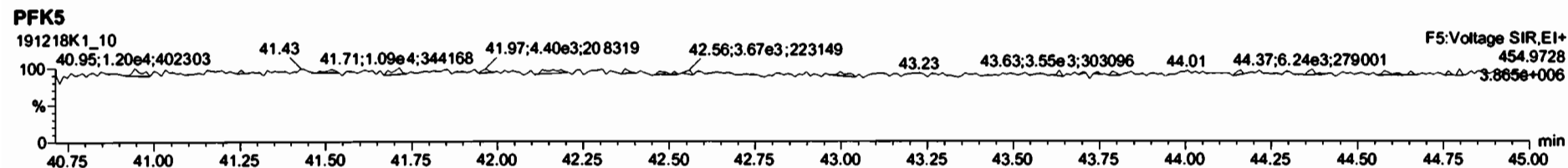
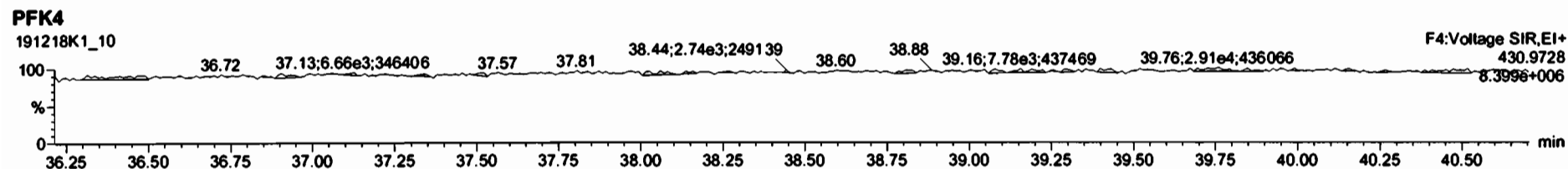
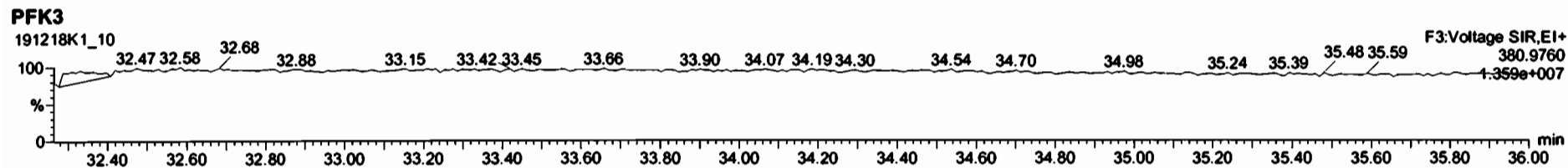
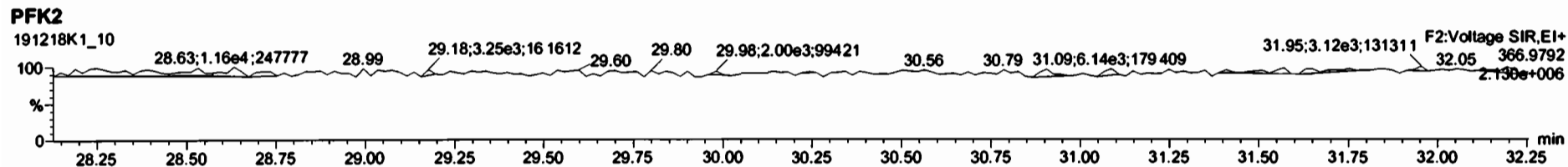
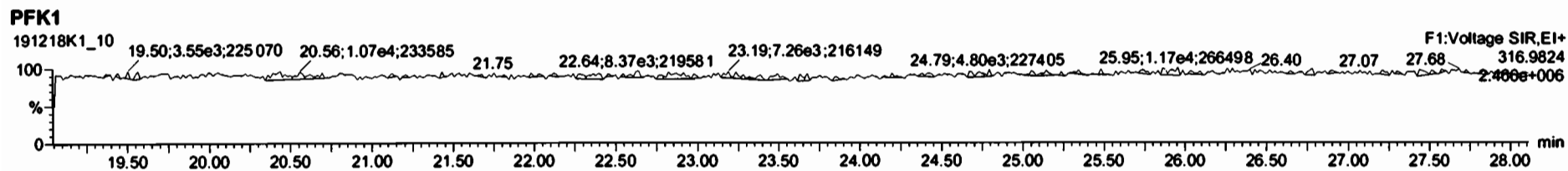
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1												



Dataset: Untitled

Last Altered: Thursday, December 19, 2019 07:42:21 Pacific Standard Time  
Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

Name: 191218K1\_10, Date: 19-Dec-2019, Time: 00:47:28, ID: 1903741-03 PDI-052SC-A-11-12-191015 14.96, Description: PDI-052SC-A-11-12-191015





Dataset: U:\VG11.PRO\Results\191218K1\191218K1-11.qld

Last Altered: Friday, December 20, 2019 09:13:28 Pacific Standard Time  
Printed: Friday, December 20, 2019 09:17:53 Pacific Standard Time

GRB 12/20/19

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

ET 12/23/19

Name: 191218K1\_11, Date: 19-Dec-2019, Time: 01:37:11, ID: 1903741-04 PDI-052SC-A-12-13.4-191015 13.95, Description: PDI-052SC-A-12-13.4-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			YES	0.925	10.137	26.17		1.00		YES			0.206	
2	1,2,3,7,8-PeCDD			YES	0.905	10.137	31.31		1.00		YES			0.171	
3	1,2,3,4,7,8-HxCDD			YES	1.07	10.137	34.65		1.00		YES			0.256	
4	1,2,3,6,7,8-HxCDD			YES	0.967	10.137	34.75		1.00		YES			0.233	
5	1,2,3,7,8,9-HxCDD			YES	0.978	10.137	35.04		1.00		YES			0.281	
6	1,2,3,4,6,7,8-HpCDD	309.000	0.836	YES	1.04	10.137	38.53	38.55	1.00	1.00	NO	0.5702		0.406	0.5092
7	OCDD	1696.405	0.907	NO	0.972	10.137	41.80	41.85	1.00	1.00	NO	3.641		0.821	3.641
8	2,3,7,8-TCDF			YES	0.938	10.137	25.17		1.00		YES			0.0879	
9	1,2,3,7,8-PeCDF			YES	0.976	10.137	30.00		1.00		YES			0.0784	
10	2,3,4,7,8-PeCDF			YES	1.00	10.137	31.00		1.00		YES			0.0840	
11	1,2,3,4,7,8-HxCDF			YES	1.24	10.137	33.78		1.00		YES			0.0519	
12	1,2,3,6,7,8-HxCDF	20.260	6.608	YES	1.10	10.137	33.91	33.92	1.00	1.00	NO	0.01012		0.0351	0.004747
13	2,3,4,6,7,8-HxCDF	22.404	5.779	YES	1.18	10.137	34.51	34.48	1.00	1.00	NO	0.02009		0.0422	0.006639
14	1,2,3,7,8,9-HxCDF			YES	1.07	10.137	35.36		1.00		YES			0.0883	
15	1,2,3,4,6,7,8-HpCDF	15.956	5.810	YES	1.13	10.137	37.14	37.12	1.00	1.00	NO	0.01603		0.0300	0.004803
16	1,2,3,4,7,8,9-HpCDF			YES	1.26	10.137	39.15		1.00		YES			0.0755	
17	OCDF			YES	1.10	10.137	42.00		1.00		YES			0.241	
18	13C-2,3,7,8-TCDD	261905.813	0.777	NO	1.05	10.137	26.13	26.14	1.03	1.03	NO	171.5	86.9	0.593	
19	13C-1,2,3,7,8-PeCDD	177017.976	0.620	NO	0.743	10.137	31.27	31.29	1.23	1.23	NO	163.7	83.0	0.839	
20	13C-1,2,3,4,7,8-HxCDD	119877.355	1.278	NO	0.646	10.137	34.64	34.64	1.01	1.01	NO	145.2	73.6	1.35	
21	13C-1,2,3,6,7,8-HxCDD	167058.016	1.272	NO	0.777	10.137	34.73	34.75	1.02	1.02	NO	168.4	85.4	1.12	
22	13C-1,2,3,7,8,9-HxCDD	135715.575	1.248	NO	0.659	10.137	35.01	35.01	1.02	1.02	NO	161.1	81.7	1.32	
23	13C-1,2,3,4,6,7,8-HpCDD	103059.679	1.130	NO	0.534	10.137	38.51	38.52	1.13	1.13	NO	151.0	76.6	1.29	
24	13C-OCDD	189165.188	0.922	NO	0.470	10.137	41.79	41.80	1.22	1.22	NO	314.9	79.8	1.66	
25	13C-2,3,7,8-TCDF	372651.515	0.726	NO	0.977	10.137	25.14	25.14	0.99	0.99	NO	158.8	80.5	0.696	
26	13C-1,2,3,7,8-PeCDF	269747.656	1.483	NO	0.778	10.137	29.96	29.98	1.18	1.18	NO	144.5	73.2	1.16	
27	13C-2,3,4,7,8-PeCDF	251365.743	1.567	NO	0.750	10.137	30.95	30.97	1.22	1.22	NO	139.6	70.8	1.20	
28	13C-1,2,3,4,7,8-HxCDF	183875.793	0.513	NO	0.845	10.137	33.77	33.78	0.99	0.99	NO	170.3	86.3	1.37	
29	13C-1,2,3,6,7,8-HxCDF	226398.820	0.525	NO	1.03	10.137	33.89	33.90	0.99	0.99	NO	172.6	87.5	1.13	
30	13C-2,3,4,6,7,8-HxCDF	186344.235	0.510	NO	0.893	10.137	34.46	34.47	1.01	1.01	NO	163.4	82.8	1.30	
31	13C-1,2,3,7,8,9-HxCDF	174252.726	0.539	NO	0.734	10.137	35.37	35.36	1.04	1.04	NO	185.8	94.2	1.58	

Dataset: U:\VG11.PRO\Results\191218K1\191218K1-11.qld

Last Altered: Friday, December 20, 2019 09:13:28 Pacific Standard Time  
Printed: Friday, December 20, 2019 09:17:53 Pacific Standard Time

Name: 191218K1\_11, Date: 19-Dec-2019, Time: 01:37:11, ID: 1903741-04 PDI-052SC-A-12-13.4-191015 13.95, Description: PDI-052SC-A-12-13.4-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	173762.215	0.433	NO	0.754	10.137	37.08	37.10	1.09	1.09	NO	180.4	91.4	1.29	
33	33 13C-1,2,3,4,7,8,9-HpCDF	109864.060	0.397	NO	0.539	10.137	39.11	39.15	1.14	1.15	NO	159.6	80.9	1.80	
34	34 13C-OCDF	256353.242	0.870	NO	0.593	10.137	41.97	42.00	1.23	1.23	NO	338.7	85.8	1.50	
35	35 37Cl-2,3,7,8-TCDD	113452.203			1.07	10.137	26.15	26.15	1.03	1.03	NO	72.88	92.3	0.135	
36	36 13C-1,2,3,4-TCDD	287174.555	0.770	NO	1.00	10.137	25.45	25.43	1.00	1.00	NO	197.3	100	0.622	
37	37 13C-1,2,3,4-TCDF	473634.188	0.732	NO	1.00	10.137	23.55	23.51	1.00	1.00	NO	197.3	100	0.680	
38	38 13C-1,2,3,4,6,9-HxCDF	252006.649	0.520	NO	1.00	10.137	34.16	34.16	1.00	1.00	NO	197.3	100	1.16	
39	39 Total Tetra-Dioxins				0.925	10.137	24.62		0.00		NO	0.0000		0.121	0.4304
40	40 Total Penta-Dioxins				0.905	10.137	29.96		0.00		NO	0.1631		0.0597	0.1631
41	41 Total Hexa-Dioxins				0.967	10.137	33.63		0.00		NO	0.0000		0.139	0.5956
42	42 Total Hepta-Dioxins				1.04	10.137	38.80		0.00		NO	1.056		0.406	1.565
43	43 Total Tetra-Furans				0.938	10.137	23.61		0.00		NO	0.0000		0.0311	0.06159
44	44 1st Func. Penta-Furans				0.976	10.137	27.04		0.00		NO			0.0184	
45	45 Total Penta-Furans				0.976	10.137	29.27		0.00		NO			0.0375	
46	46 Total Hexa-Furans				1.18	10.137	33.56		0.00		NO	0.006440		0.0423	0.02432
47	47 Total Hepta-Furans				1.13	10.137	37.83		0.00		NO	0.0000		0.0362	0.004803

Dataset: U:\VG11.PRO\Results\191218K1\191218K1-11.qld

Last Altered: Friday, December 20, 2019 09:13:28 Pacific Standard Time

Printed: Friday, December 20, 2019 09:18:04 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: 191218K1\_11, Date: 19-Dec-2019, Time: 01:37:11, ID: 1903741-04 PDI-052SC-A-12-13.4-191015 13.95, Description: PDI-052SC-A-12-13.4-191015

**Tetra-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	0.00e0	2.62e5	1.072	YES	24.62	23.75	0.0000	0.4304

**Penta-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	1.32e2	1.77e5	0.536	NO	29.96	29.56	0.1631	0.1631

**Hexa-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	0.00e0	0.00e0	1.428	YES	33.63	33.18	0.0000	0.5956

**Hepta-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	42 Total Hepta-Dioxins	5.72e2	1.03e5	1.045	NO	38.80	37.50	1.056	1.056
2	6 1,2,3,4,6,7,8-HpCDD	3.09e2	1.03e5	0.836	YES	38.53	38.55	0.0000	0.5092

**Tetra-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	0.00e0	3.73e5	0.918	YES	23.61	20.85	0.0000	0.06159

**Penta-Furans function 1**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191218K1\191218K1-11.qld

Last Altered: Friday, December 20, 2019 09:13:28 Pacific Standard Time

Printed: Friday, December 20, 2019 09:18:04 Pacific Standard Time

Name: 191218K1\_11, Date: 19-Dec-2019, Time: 01:37:11, ID: 1903741-04 PDI-052SC-A-12-13.4-191015 13.95, Description: PDI-052SC-A-12-13.4-191015

**Penta-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

**Hexa-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	12 1,2,3,6,7,8-HxCDF	2.03e1	2.26e5	6.608	YES	33.91	33.92	0.0000	0.0047...
2	46 Total Hexa-Furans	0.00e0	0.00e0	4.817	YES	33.56	34.75	0.0000	0.0064...
3	13 2,3,4,6,7,8-HxCDF	2.24e1	1.86e5	5.779	YES	34.51	34.48	0.0000	0.0066...
4	46 Total Hexa-Furans	7.43e0	0.00e0	1.137	NO	33.56	33.22	0.006440	0.0064...

**Hepta-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	1.60e1	1.74e5	5.810	YES	37.14	37.12	0.0000	0.0048...

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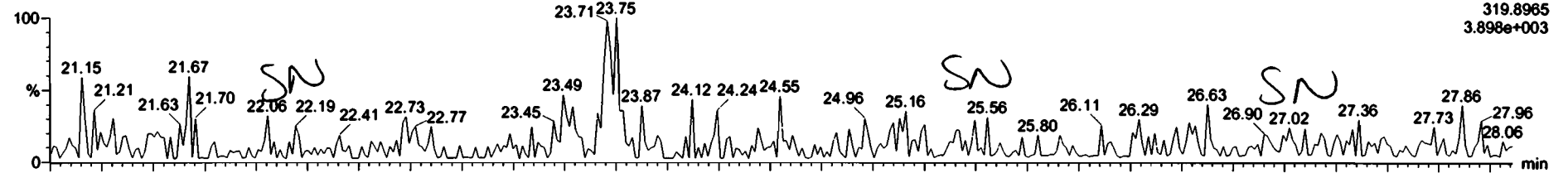
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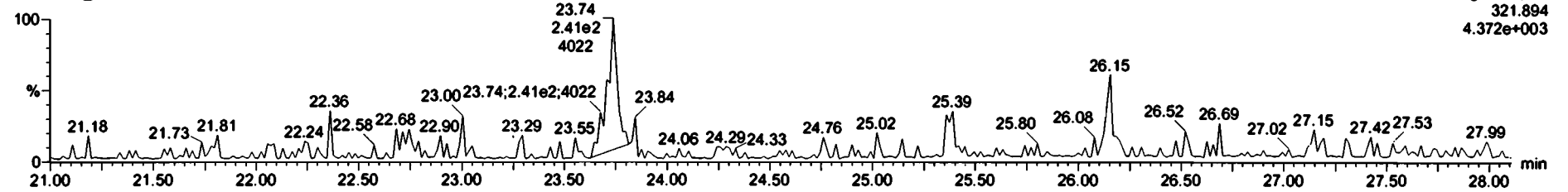
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2,3,7,8-TCDD

191218K1\_11

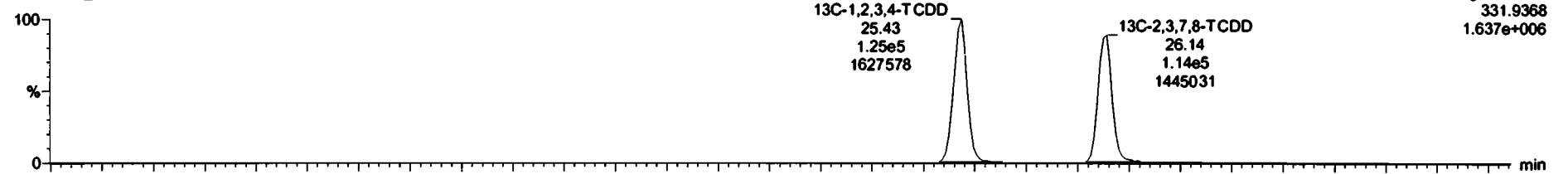


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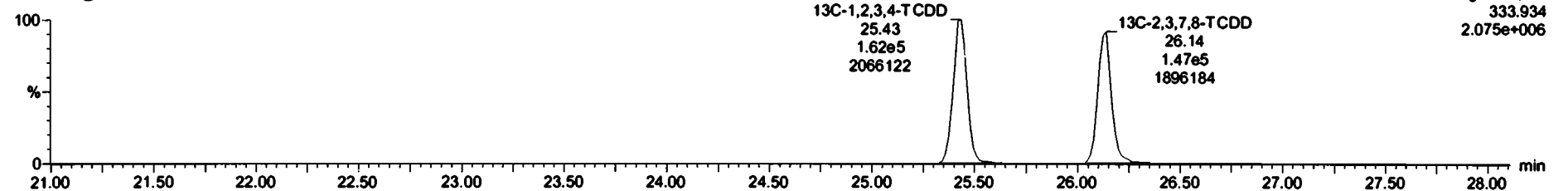


13C-2,3,7,8-TCDD

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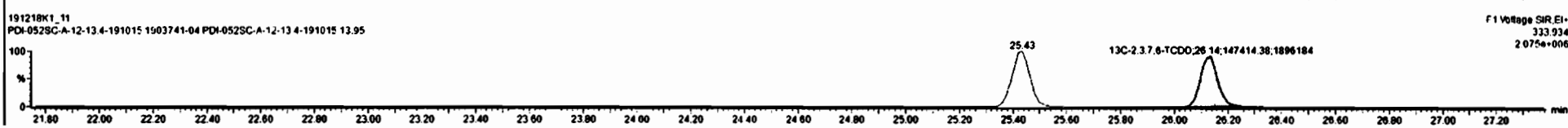
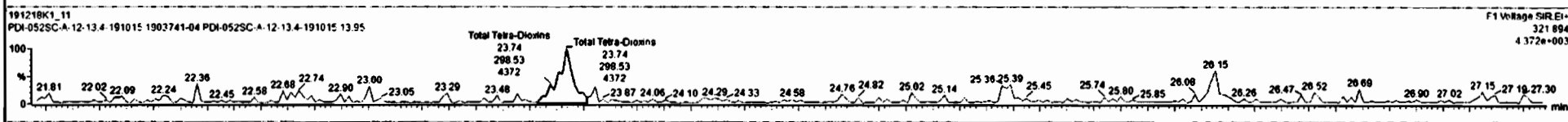
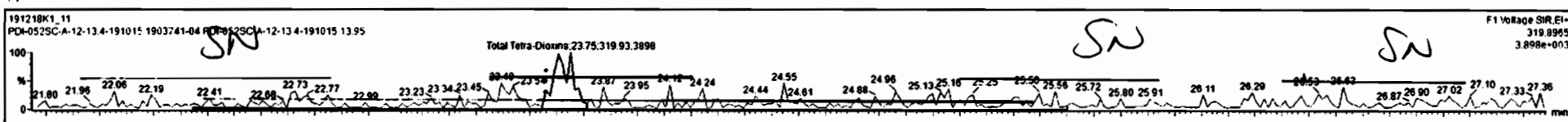


191218K1\_11



#	Name	Ret	RA	dy	RP	wVal	PreLID	RT	PreLR	RP	RT Fail	Conc.	Units	DL	EMPC
40	Total Penta-Dioxine				0.9846	10.137	29.96		0.980		NO			0.0597	
41	Total Hexa-Dioxine				0.9875	10.137	33.83		0.980		NO			0.139	
42	Total Hepta-Dioxine				1.0375	10.137	38.80		0.980		NO	0.0000		0.224	0.9220
43	Total Tetra-Furane				0.9376	10.137	23.81		0.980		NO			0.6311	
44	1st Func. Penta-Furane				0.9762	10.137	27.94		0.980		NO			0.0185	
45	Total Penta-Furane				0.9762	10.137	29.27		0.980		NO			0.0378	
46	Total Hexa-Furane				1.1889	10.137	33.56		0.980		NO			0.6423	
47	Total Hepta-Furane				1.1389	10.137	37.83		0.980		NO			0.0367	

#	Name	PreLID	RT	Int Resp	Ext Resp	1 <sup>st</sup> Rate (PreL)	RA	dy	EMPC	Conc.
1	30 Total Tetra-Dioxine	24.62	23.75	3.199e2	2.985e2	0.770	1.07	YES	0.43635	0.00000

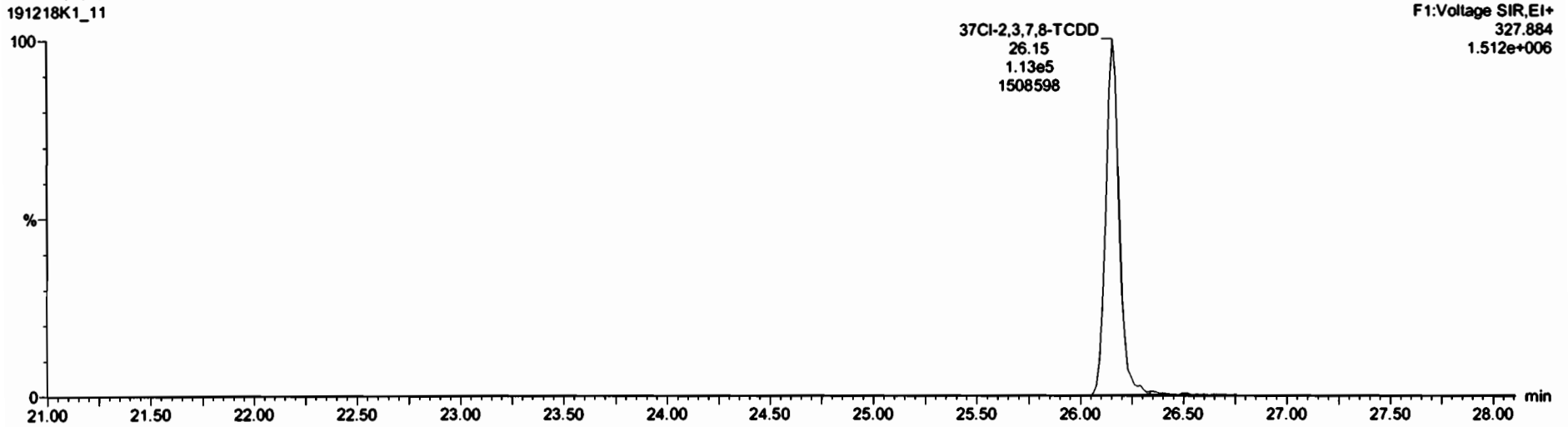


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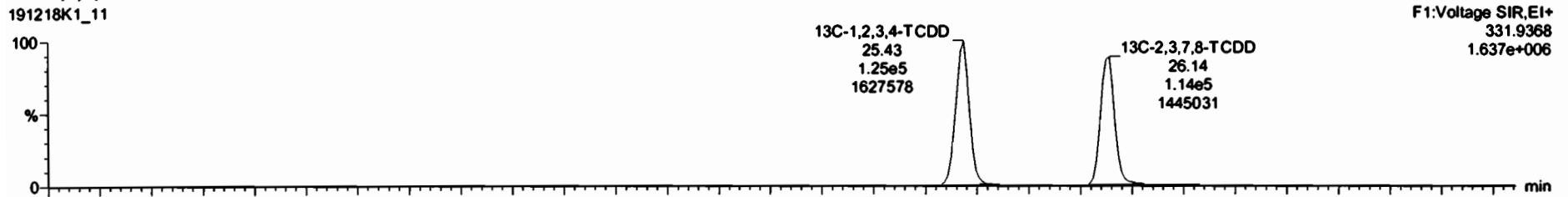
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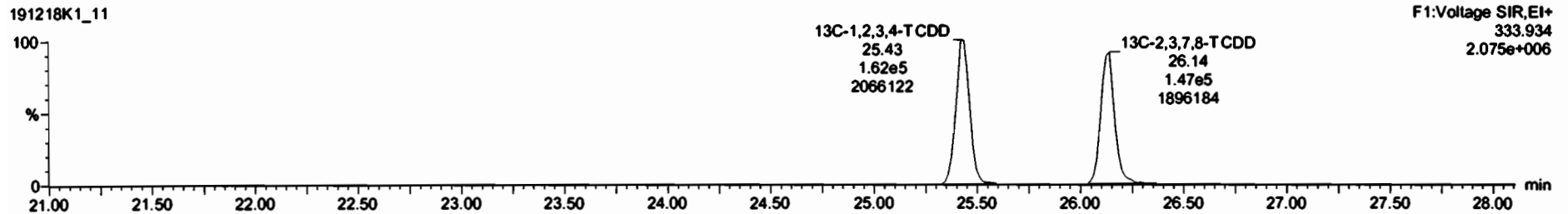
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191218K1\_11



**13C-1,2,3,4-TCDD**  
191218K1\_11



191218K1\_11



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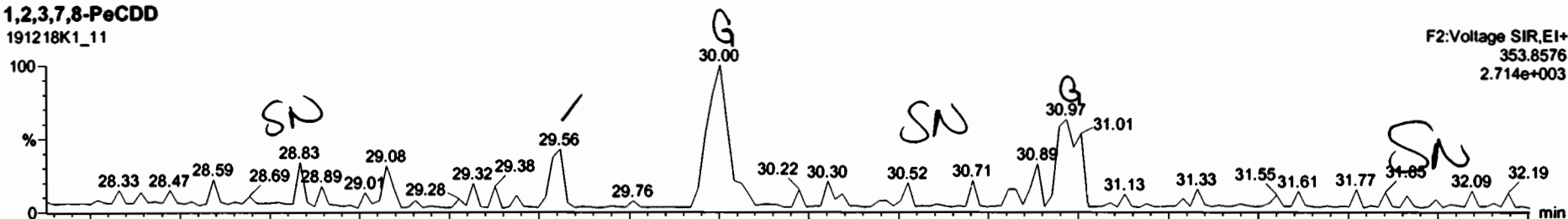
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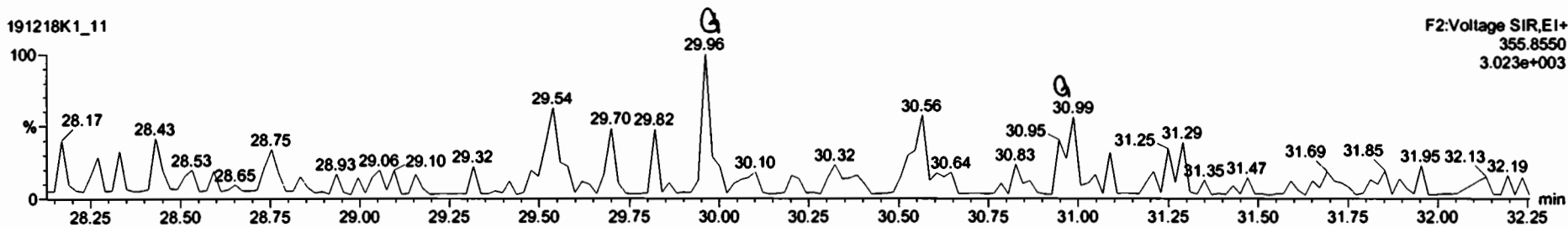
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1,2,3,7,8-PeCDD

191218K1\_11

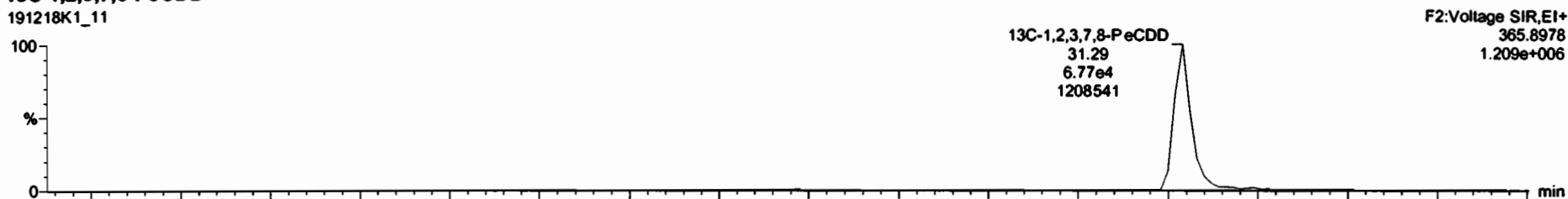


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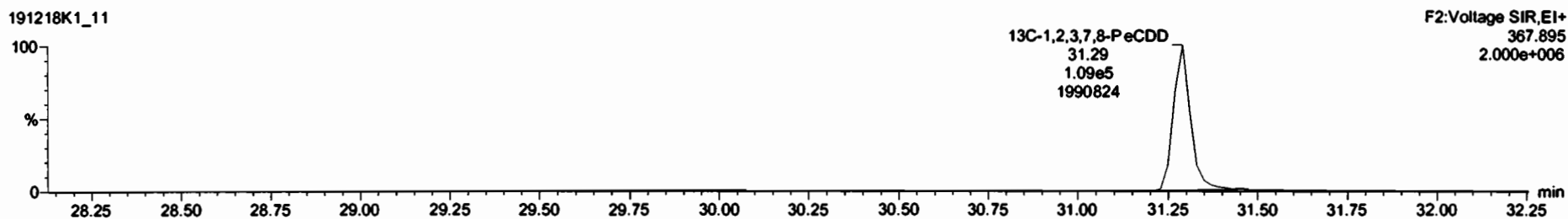


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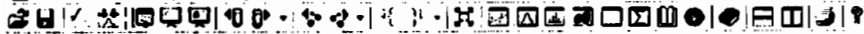
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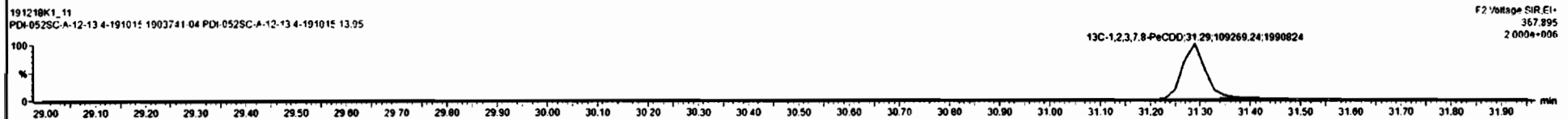
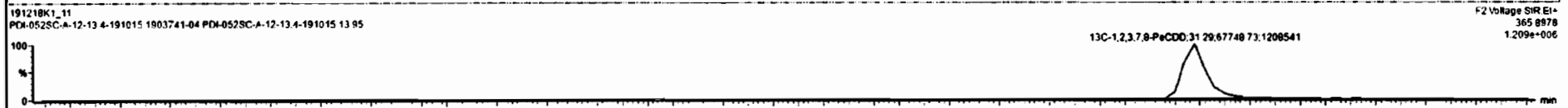
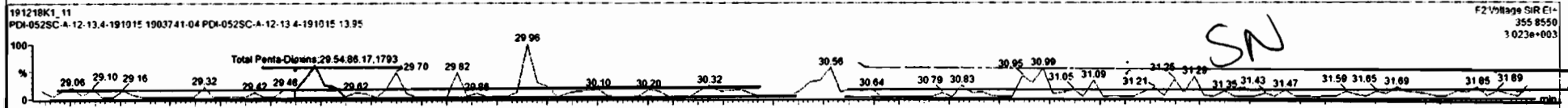
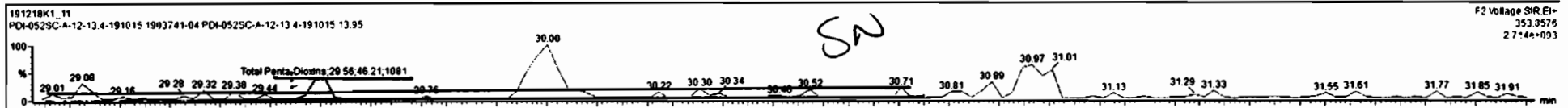






#	Name	Resp	RA	spy	RP	wVal	Prod.RT	RT	Prod.R	RRT	RRT Fail	Conc.	%Res	DL	EMPC
39	Total Tetra-Dioxins				0.9249	10.137	24.62		0.000		NO	0.0000		0.121	0.4304
40	Total Hexa-Dioxins				0.0000				0.000		NO	0.0000		0.0000	0.0000
41	Total Hexa-Dioxins				0.0075	10.137	33.63		0.000		NO			0.139	
42	Total Hepta-Dioxins				1.0375	10.137	36.90		0.000		NO	0.0000		0.224	0.9220
43	Total Tetra-Furans				0.0376	10.137	23.81		0.000		NO			0.0311	
44	1st Func. Penta-Furans				0.9762	10.137	27.04		0.000		NO			0.0185	
45	Total Penta-Furans				0.9762	10.137	29.27		0.000		NO			0.0370	
46	Total Hexa-Furans				1.1808	10.137	33.56		0.000		NO			0.0423	
47	Total Hepta-Furans				1.1300	10.137	37.83		0.000		NO			0.0367	

#	Name	Prod.RT	RT	ret Resp	id Resp	1 <sup>st</sup> Ratio (Prod)	RA	spy	EMPC	Conc.
1	48 Total Penta-Dioxins	29.90	29.90	4.621e1	6.617e1	0.630	0.54	NO	0.16311	0.16311



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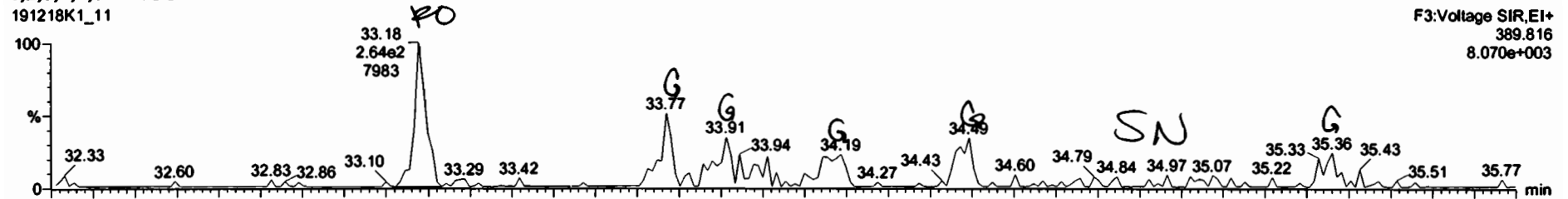
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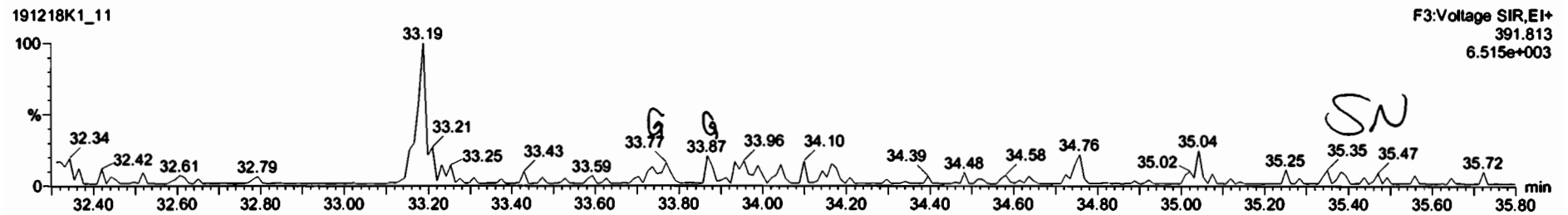
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1,2,3,4,7,8-HxCDD

191218K1\_11

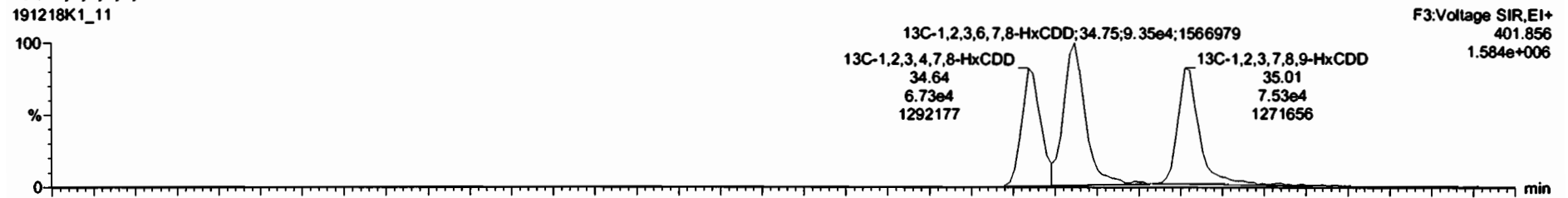


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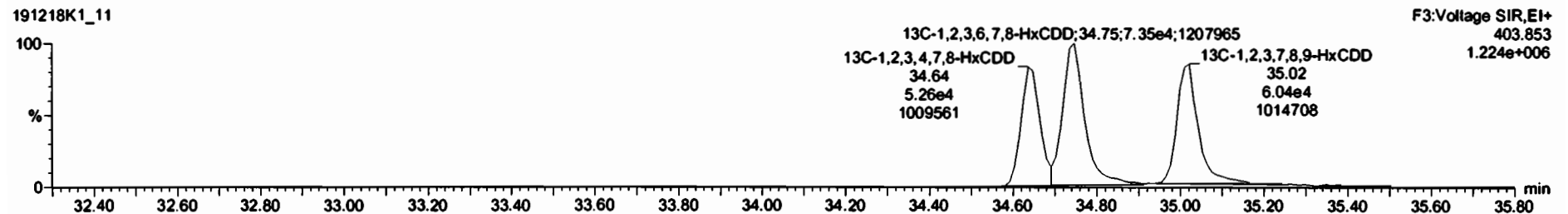


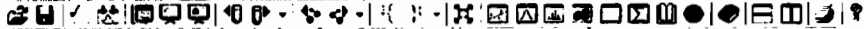
13C-1,2,3,4,7,8-HxCDD

191218K1\_11



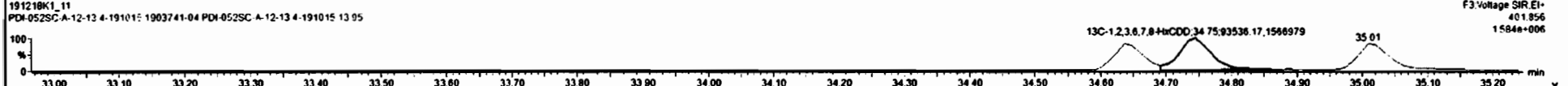
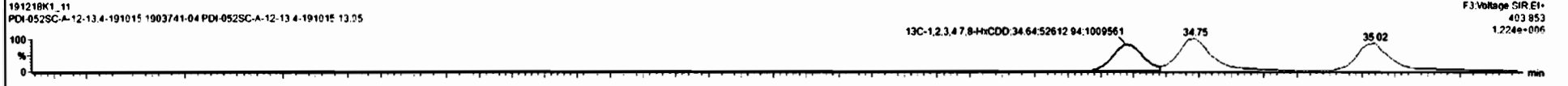
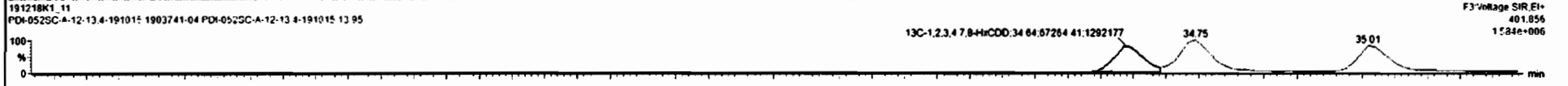
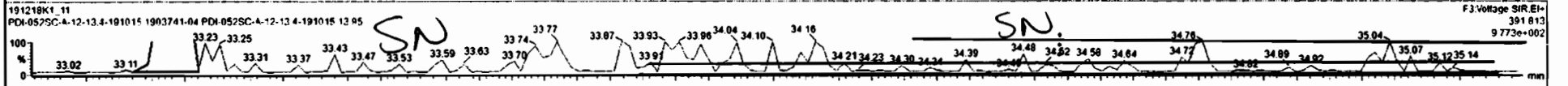
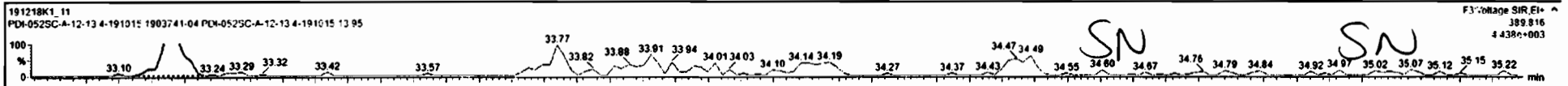
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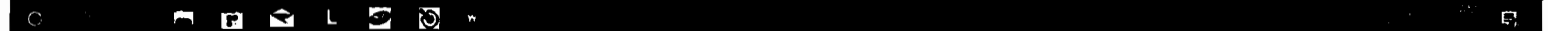
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27	13C-2,3,4,7,8-PyCDF	2.51e5	1.57	NO	0.7490	10.137	30.95	30.97	1.217	1.218	NO	130.6	78.8	1.20	
28	13C-1,2,3,4,7,8-HxCDF	1.84e5	0.51	NO	0.8452	10.137	33.77	33.78	0.909	0.909	NO	170.3	86.3	1.37	
29	13C-1,2,3,6,7,8-HxCDF	2.20e5	0.52	NO	1.0207	10.137	33.80	33.80	0.992	0.992	NO	172.6	87.5	1.13	
30	13C-2,3,4,6,7,8-HxCDF	1.86e5	0.51	NO	0.8020	10.137	34.40	34.47	1.009	1.009	NO	163.4	82.8	1.39	
31	13C-1,2,3,7,8,9-HxCDF	1.74e5	0.54	NO	0.7343	10.137	35.27	35.30	1.035	1.035	NO	165.6	84.2	1.50	
32	13C-1,2,3,4,6,7,8-HpCDF	1.75e5	0.45	NO	0.7542	10.137	37.06	37.10	1.085	1.086	NO	161.2	91.8	1.29	
33	13C-1,2,3,4,7,8,9-HpCDF	1.10e5	0.40	NO	0.5390	10.137	39.11	39.15	1.145	1.146	NO	159.6	80.9	1.80	
34	13C-OCDF	2.50e5	0.87	NO	0.5925	10.137	41.97	42.00	1.220	1.220	NO	336.7	85.6	1.50	
35	37Cl-2,3,7,8-TCDD	1.13e5			1.0095	10.137	26.15	26.15	1.028	1.028	NO	72.88	92.3	0.135	

#	Name	Pred.RT	RT	err Resp	nl Resp	% Ratio (Pred)	RA	nly	EMPC	Conc.
41	Total Hexa-Chlorine	33.63	33.18	2.623e2	1.637e2	1.240	1.43	YES	6.59563	0.00000



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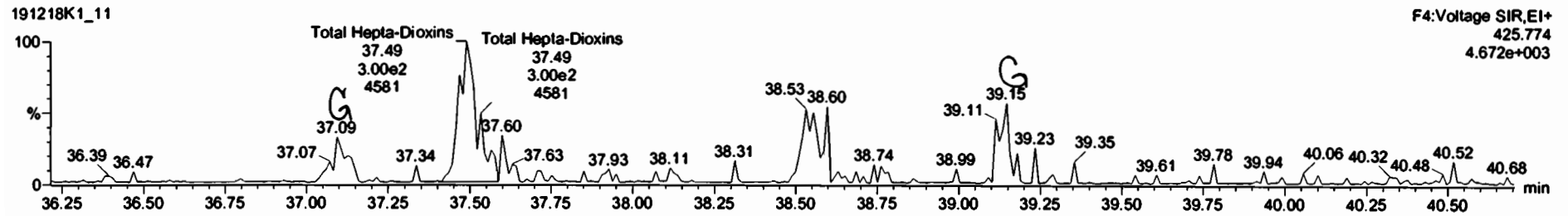
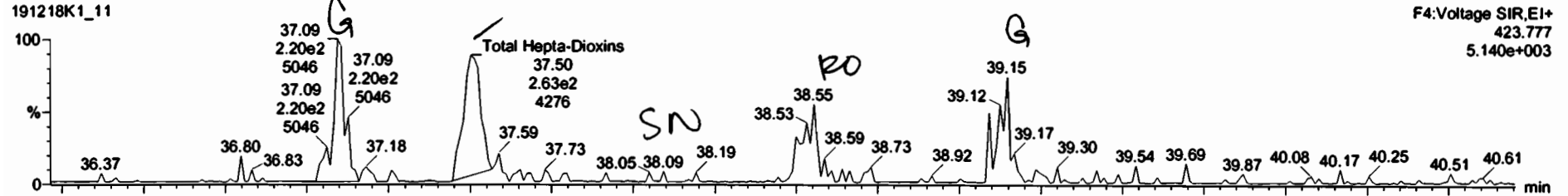


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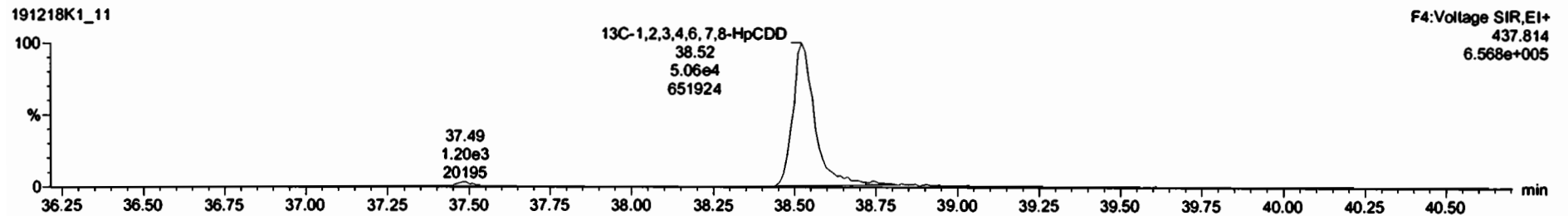
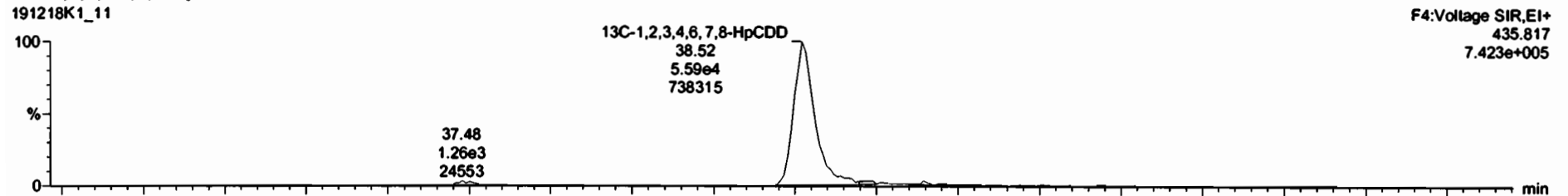
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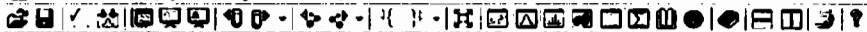
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1,2,3,4,6,7,8-HpCDD



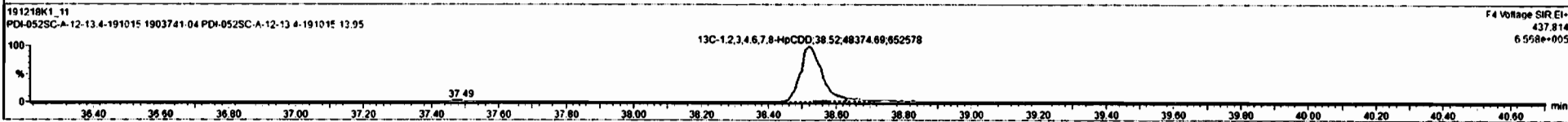
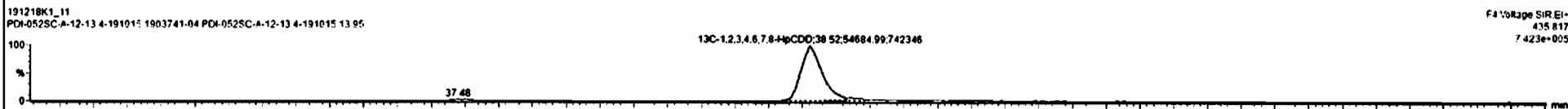
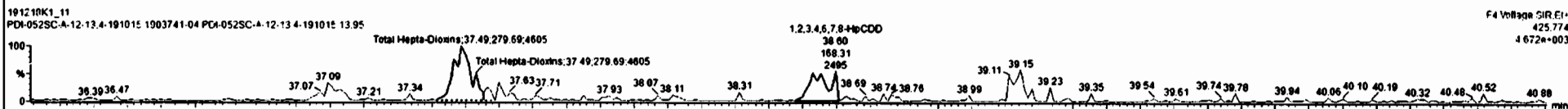
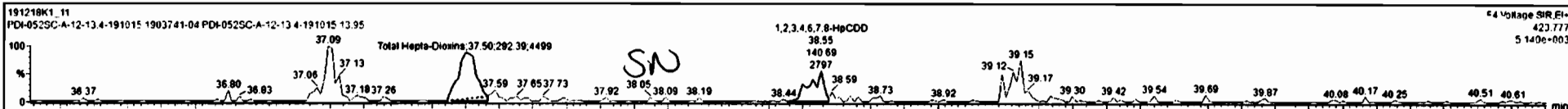
13C-1,2,3,4,6,7,8-HpCDD





#	Item	Resp	RA	dy	RP	rt/val	Prod.RT	RT	Prod.R	RIS	RTT Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Furans				0.9376	18.137	23.01		0.000		NO	1.000		0.000	1.000
43	Total Tetra-Furans				0.9376	18.137	23.01		0.000		NO			0.0311	
44	1st Func. Penta-Furans				0.9762	18.137	27.04		0.000		NO			0.0185	
45	Total Penta-Furans				0.9762	18.137	29.27		0.000		NO			0.0378	
46	Total Hexa-Furans				1.1806	18.137	33.56		0.000		NO			0.0423	
47	Total Hepta-Furans				1.1300	18.137	37.83		0.000		NO			0.0367	
48	PFK1														
49	PFK2														
50	PFK3														

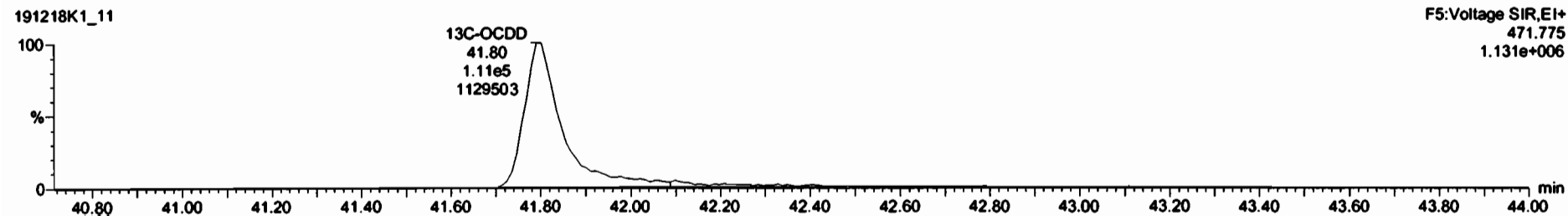
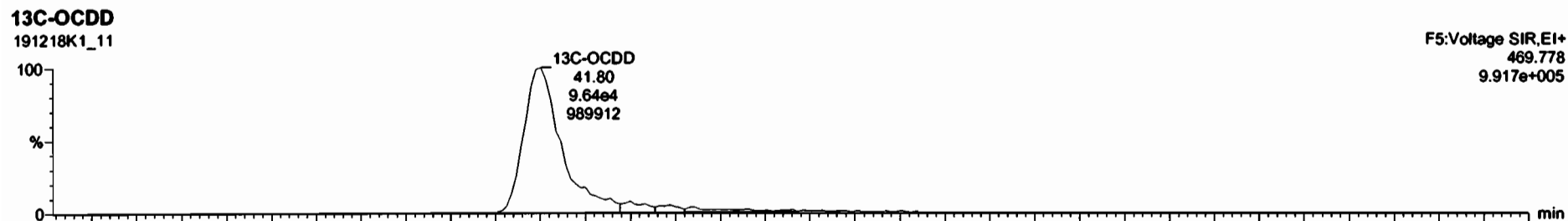
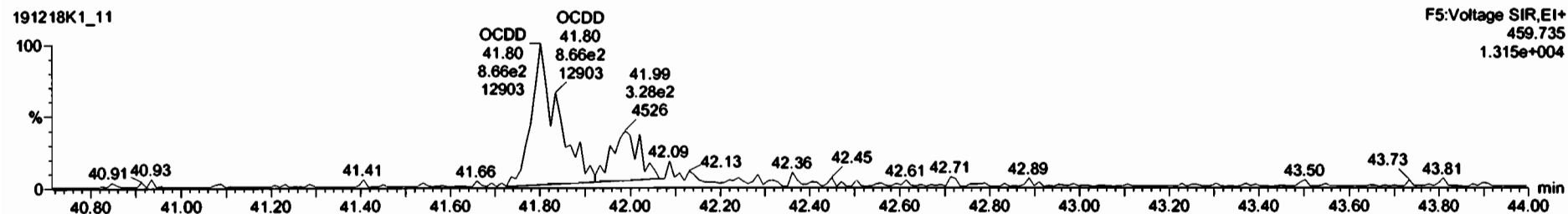
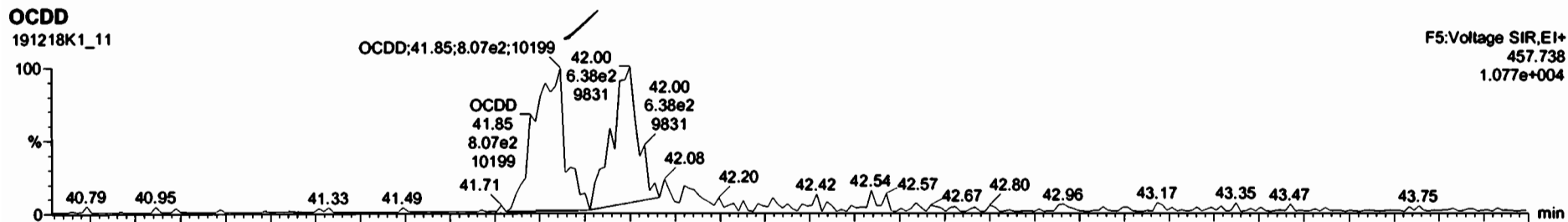
#	Item	Prod.RT	RT	ret Resp	id Resp	1 <sup>st</sup> Ratio (Prod)	RA	dy	EMPC	Conc.
1	Total Hepta-Dioxins	38.00	37.50	2.924e2	2.797e2	1.040	1.05	NO	1.0556	1.0556
2	1,2,3,4,6,7,8-HpCDD	38.53	38.95	1.407e2	1.063e2	1.040	0.84	YES	0.50922	0.00000

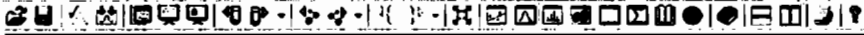


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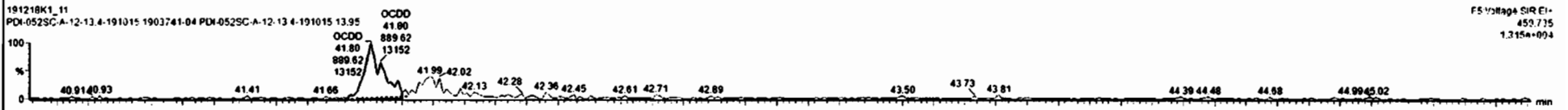
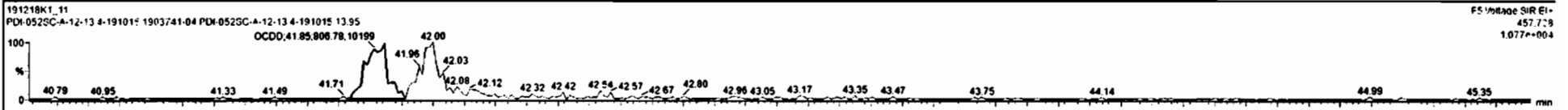
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#	#	Name	Resp	RA	dy	RFP	wt/val	Prod.RT	RT	Prod.L	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	1	2,3,7,8-TCDD			YES	0.9249	10.137	20.17		1.001		YES			0.200	
2	2	1,2,3,7,8-PeCDD			YES	0.9046	10.137	31.31		1.001		YES			0.171	
3	3	1,2,3,4,7,8-HxCDD			YES	1.0091	10.137	34.05		1.000		YES			0.250	
4	4	1,2,3,6,7,8-HxCDD			YES	0.9675	10.137	34.75		1.000		YES			0.233	
5	5	1,2,3,7,8-HxCDD			YES	0.9778	10.137	35.04		1.001		YES			0.281	
6	6	1,2,3,4,6,7,8-HpCDD			YES	1.0375	10.137	38.53		1.000		YES			0.404	
7	7	OCDD	0.9111	NO	0.9370	10.137	41.80	41.80	2.000	1.001	NO	3.041		0.000	3.041	
8	8	2,3,7,8-TCDF			YES	0.9370	10.137	25.17		1.001		YES			0.0879	
9	9	1,2,3,7,8-PeCDF			YES	0.9762	10.137	30.00		1.001		YES			0.0797	

#	#	Name	Prod.RT	RT	wt Resp	rt Resp	1 <sup>st</sup> Peak (Prod)	RA	dy	EMPC	Conc.
1											

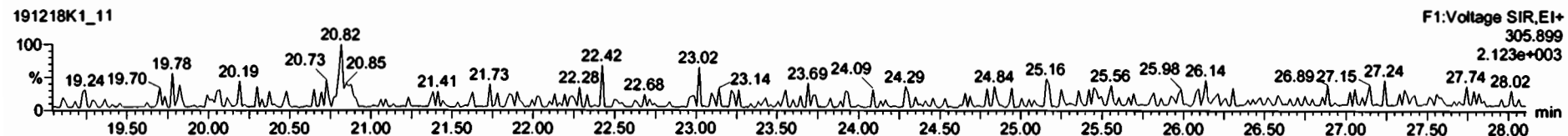
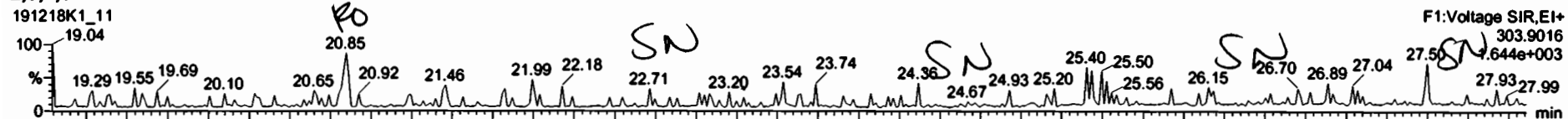


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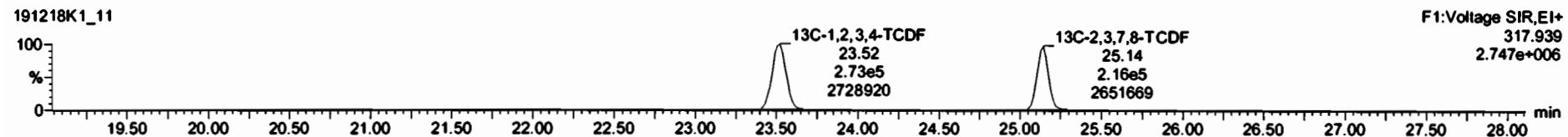
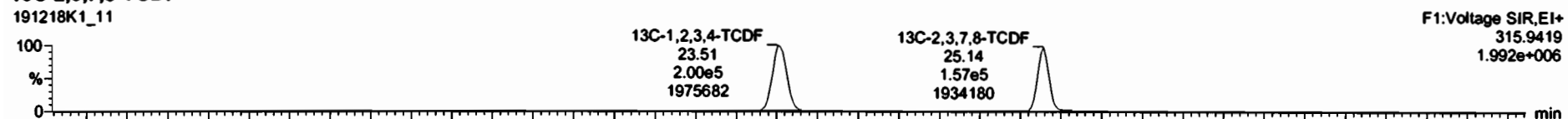
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Name: 191218K1\_11, Date: 19-Dec-2019, Time: 01:37:11, ID: 1903741-04 PDI-052SC-A-12-13.4-191015 13.95, Description: PDI-052SC-A-12-13.4-191015

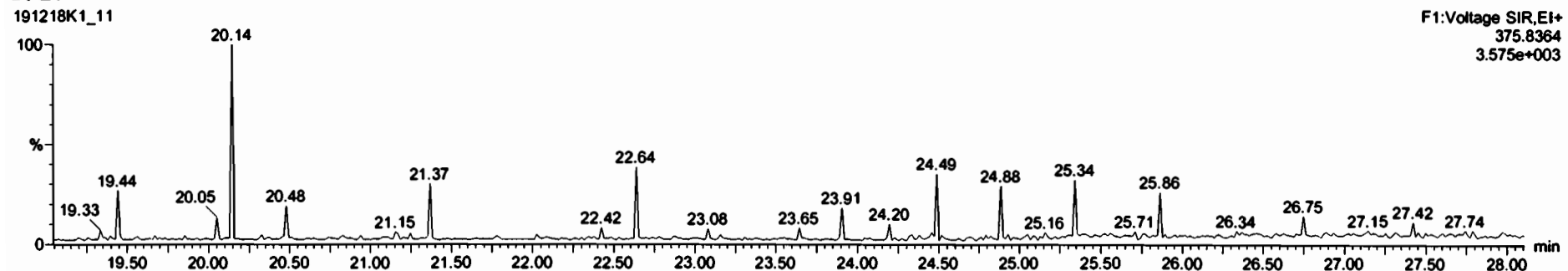
**2,3,7,8-TCDF**



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



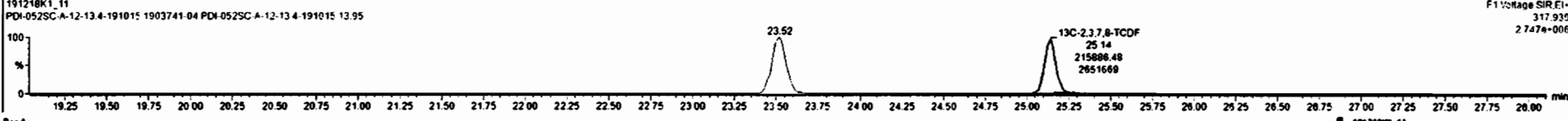
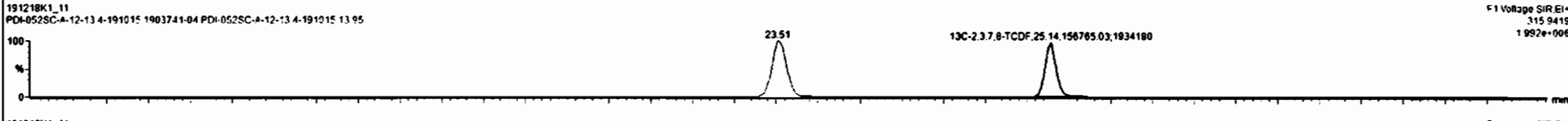
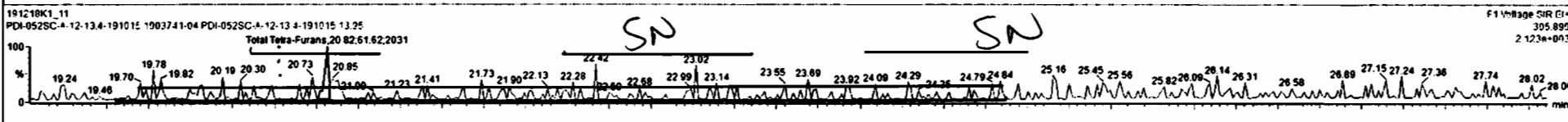
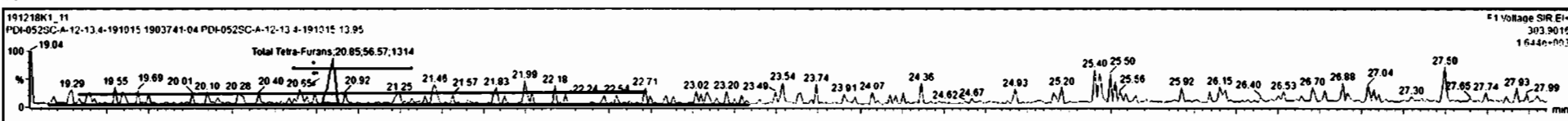
**DPE1**





#	Name	Resp	RA	aly	RPF	retVal	Prod.RT	RT	Prod.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				1.0375	10.137	30.00		0.000		NO	1.050		0.400	1.505
43	Total Hepta-Furans				0.8000	10.137	23.00		0.000		NO	0.0000		0.0391	0.00100
44	1st Func. Penta-Furans				0.9762	10.137	27.04		0.000		NO			0.0185	
45	Total Penta-Furans				0.9762	10.137	29.27		0.000		NO			0.0378	
46	Total Hexa-Furans				1.1000	10.137	33.56		0.000		NO			0.0423	
47	Total Hepta-Furans				1.1300	10.137	37.83		0.000		NO			0.0367	
48	PFK1														
49	PFK2														
50	PFK3														

#	Name	Prod.RT	RT	ret Resp	id2 Resp	1st Ratio (Prod)	RA	aly	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	20.85	5.657e1	6.162e1	0.770	0.92	YES	0.001567	0.00000



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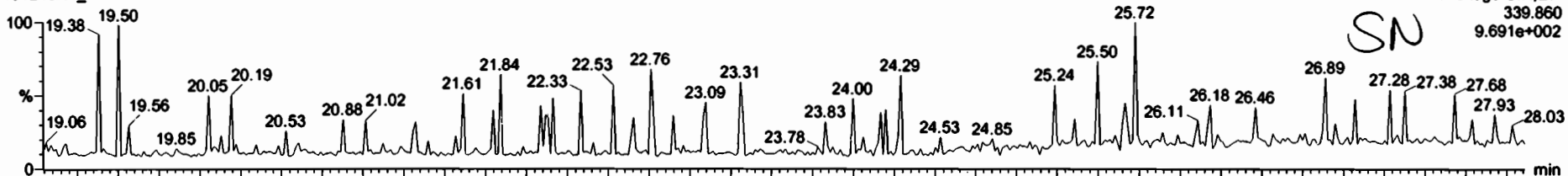
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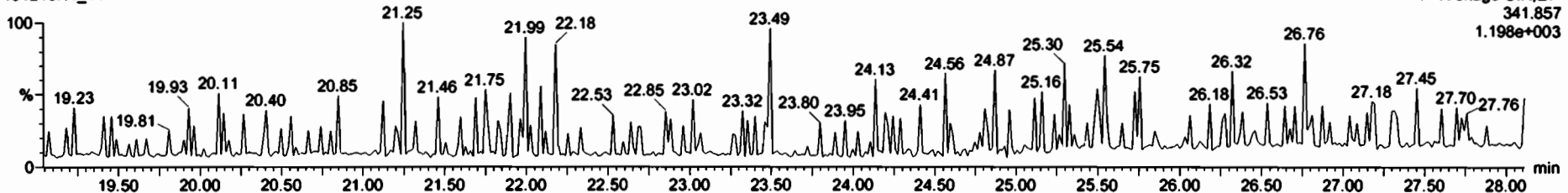
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1st Func. Penta-Furans

191218K1\_11

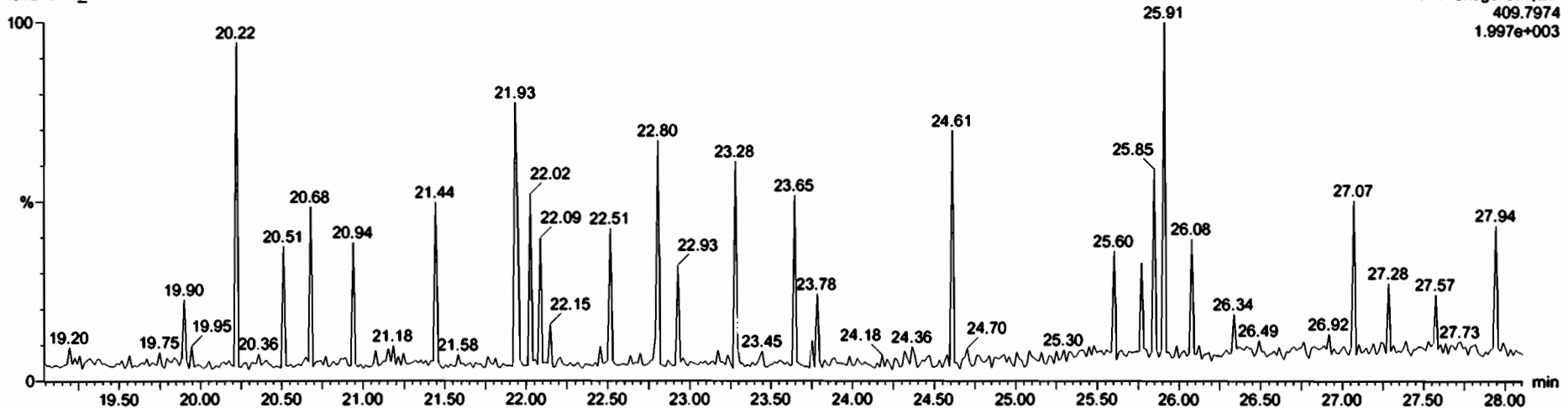


191218K1\_11



DPE6

191218K1\_11



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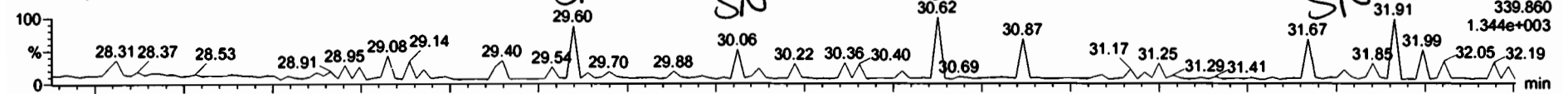
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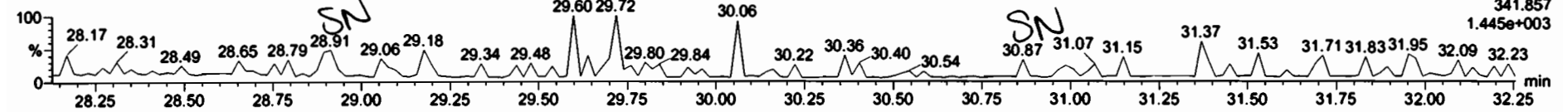
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**1,2,3,7,8-PeCDF**

191218K1\_11

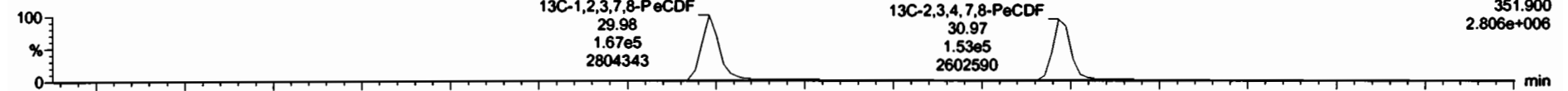


191218K1\_11

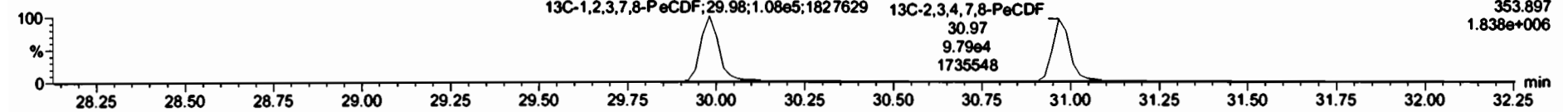


**13C-1,2,3,7,8-PeCDF**

191218K1\_11

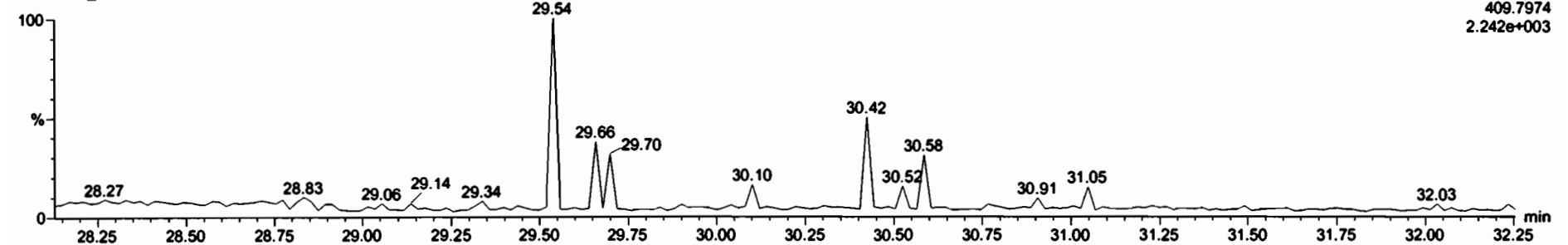


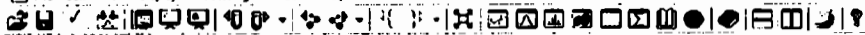
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**DPE2**

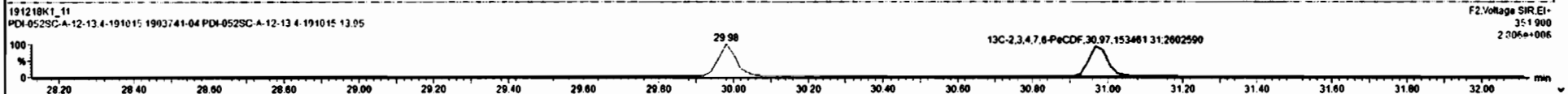
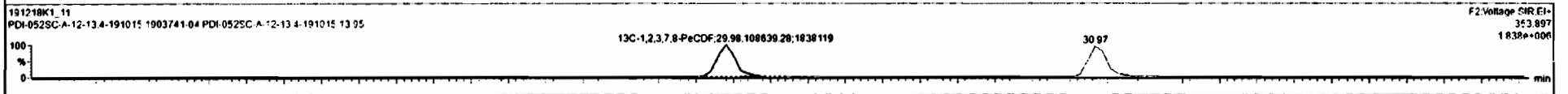
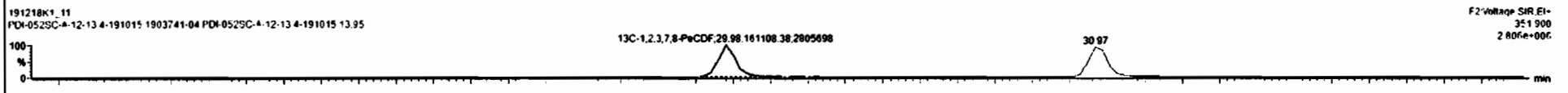
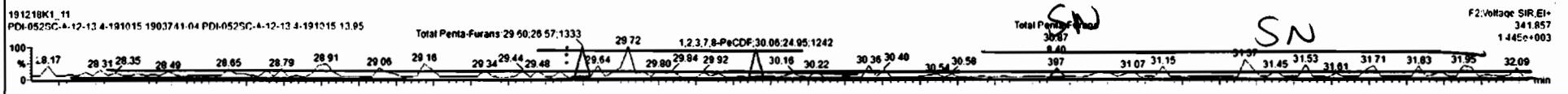
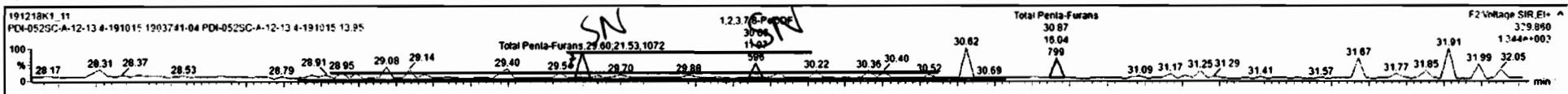
191218K1\_11





#	Name	Response	RA	Adj	RP	RP/Std	Prod.RT	RT	Prod.R	RTT	RTT Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				1.0375	10.137	38.00		0.000		NO	1.950		0.400	1.505
43	Total Tetra-Furans				0.9375	10.137	23.61		0.000		NO	0.0000		0.0311	0.06159
44	1st Func. Penta-Furans				0.9702	10.137	27.04		0.000		NO	0.0000		0.0164	
45	Total Penta-Furans				0.9998	10.137	28.37		0.000		NO	0.0000		0.0076	0.00000
46	Total Hexa-Furans				1.1806	10.137	33.56		0.000		NO			0.0423	
47	Total Hepta-Furans				1.1300	10.137	37.83		0.000		NO			0.0207	
48	PFK1														
49	PFK2														
50	PFK3														

#	Name	Prod.RT	RT	ret Resp	std Resp	1st Ratio (Prod)	RA	Adj	EMPC	Conc.
1	Total Penta-Furans	29.27	29.60	2.153e1	2.657e1	1.550	0.81	YES	0.027472	0.00000
2	1,2,3,7,8-PeCDF	30.00	30.00	1.197e1	2.495e1	1.550	0.48	YES	0.014757	0.00000
3	Total Penta-Furans	29.27	30.87	1.604e1	8.300e0	1.550	1.91	YES	0.010613	0.00000



Dataset: Untitled

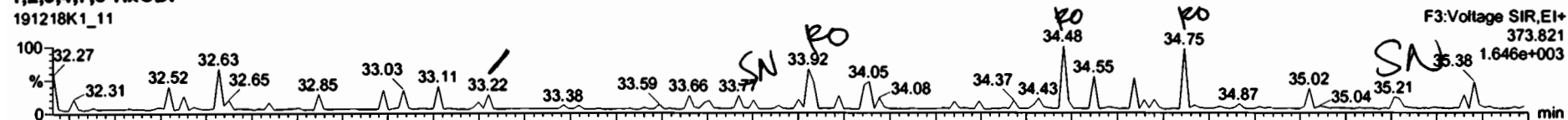
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Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

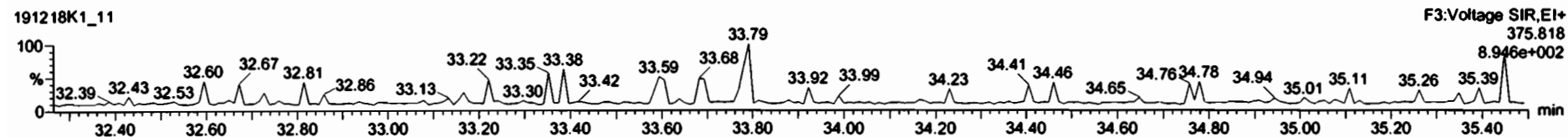
Name: 191218K1\_11, Date: 19-Dec-2019, Time: 01:37:11, ID: 1903741-04 PDI-052SC-A-12-13.4-191015 13.95, Description: PDI-052SC-A-12-13.4-191015

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

191218K1\_11

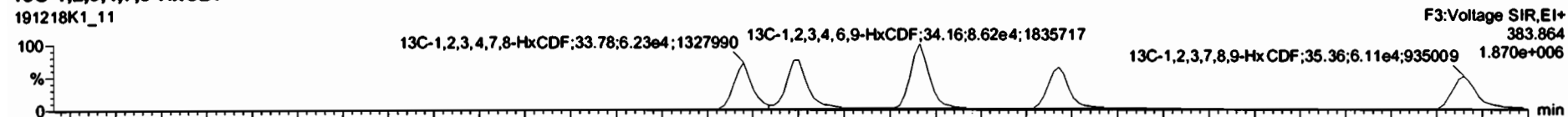


191218K1\_11

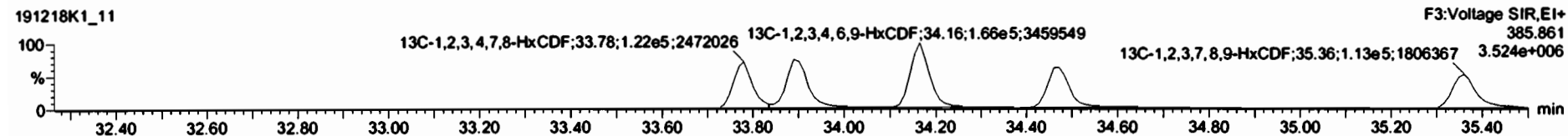


**13C-1,2,3,4,7,8-HxCDF**

191218K1\_11

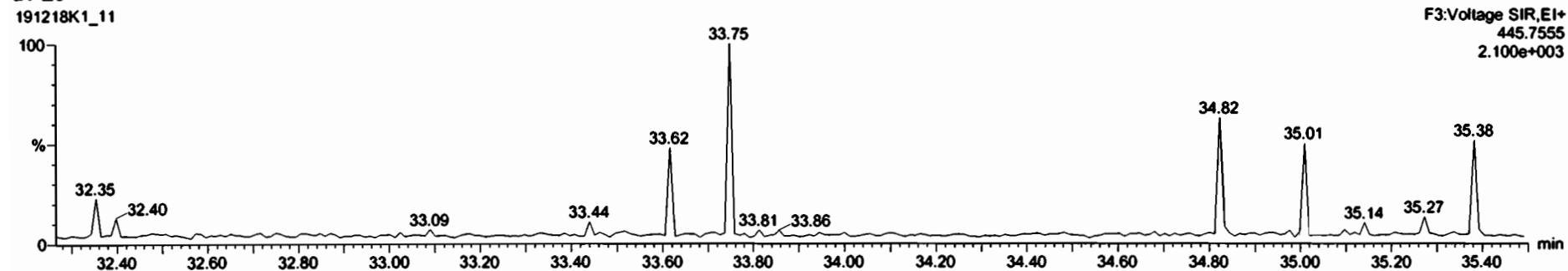


191218K1\_11



**DPE3**

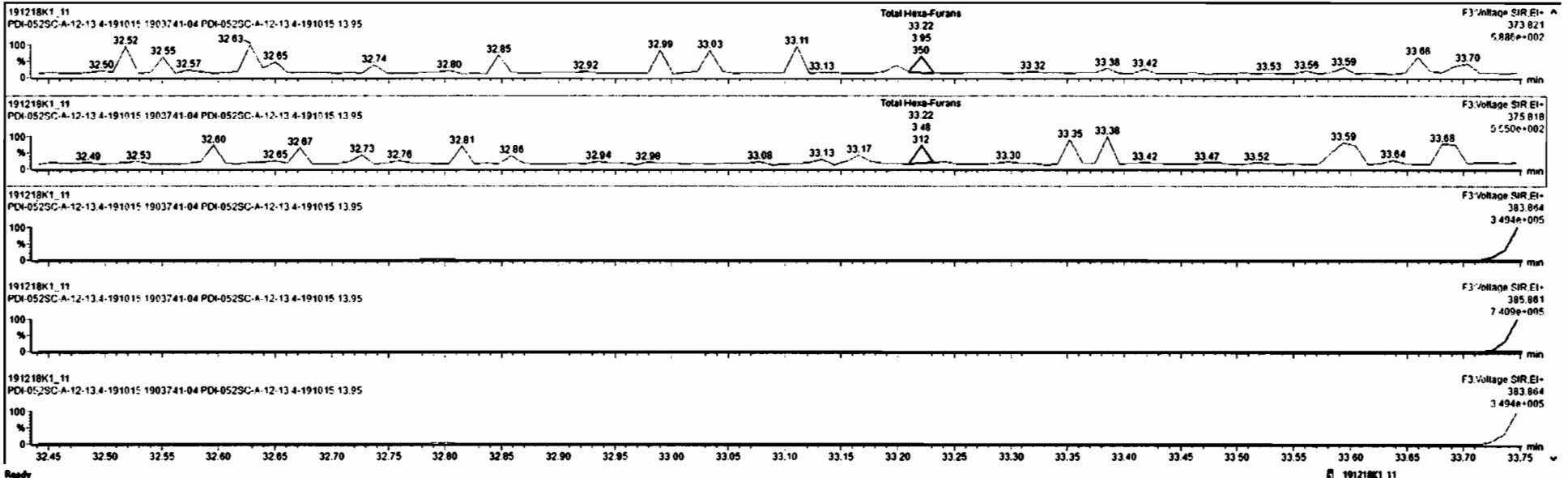
191218K1\_11





#	Name	Resp	RA	aly	RP	refVal	Prod.RT	RT	Prod.R.	RFT	RFT Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Furans				1.0375	10.137	38.80		0.000	NO		1.050		0.400	1.585
43	Total Tetra-Furans				0.9376	10.137	23.61		0.000	NO		0.000		0.6311	0.06150
44	1st Func. Penta-Furans				0.9782	10.137	27.04		0.000	NO				0.6184	
45	Total Penta-Furans				0.9782	10.137	29.27		0.000	NO		0.000		0.0375	0.05884
46	Total Hexa-Furans				1.1380	10.137	33.00		0.000	NO		0.000		0.6428	0.06388
47	Total Hepta-Furans				1.1380	10.137	37.83		0.000	NO				0.6367	
48	PFK1														
49	PFK2														
50	PFK3														

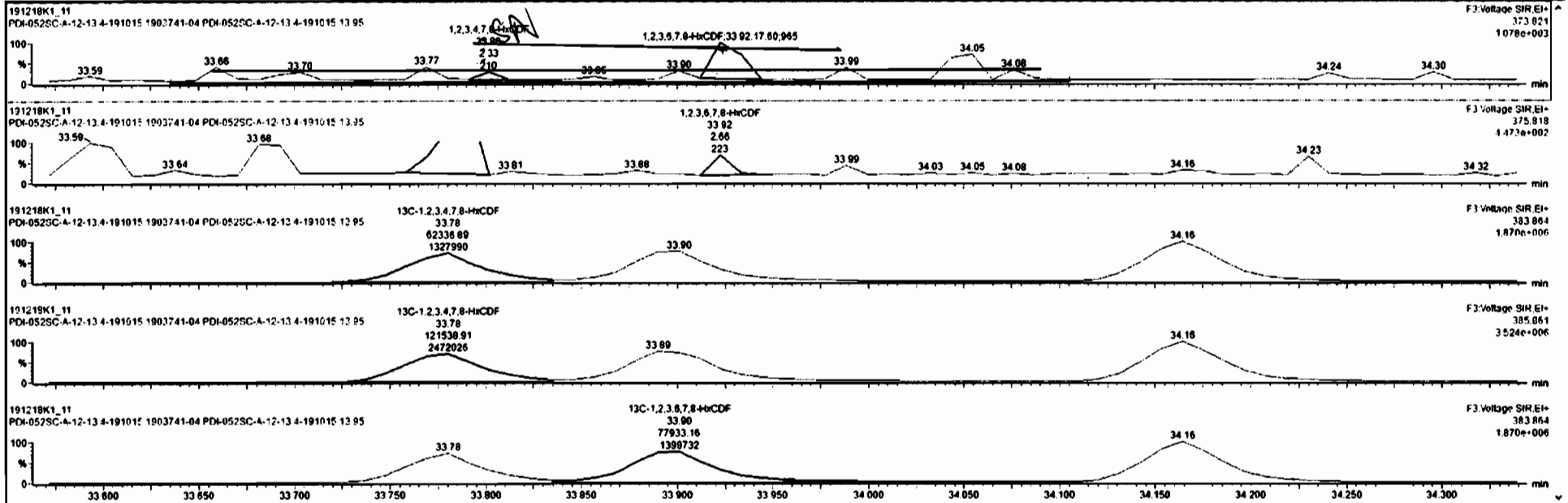
#	Name	Prod.RT	RT	ref Resp	ref Resp	1 <sup>st</sup> Ratio (Prod)	RA	aly	EMPC	Conc.
1	Total Hexa-Furans	33.58	33.22	1.952e0	3.475e0	1.240	1.14	NO	0.00844	0.0064404
2	1,2,3,6,7,8-HxCDF	33.91	33.82	1.780e1	2.083e0	1.240	0.61	YES	0.00474	0.00000
3	2,3,4,6,7,8-HxCDF	34.51	34.48	1.910e1	3.305e0	1.240	5.78	YES	0.00683	0.00000
4	Total Hexa-Furans	33.58	34.75	1.611e1	3.344e0	1.240	4.82	YES	0.00849	0.00000





#	Name	Resp	RA	aly	RFP	rt/val	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Furans				1.0375	18.137	38.80		8.000		NO	1.058	0.408	1.585	
43	Total Tetra-Furans				0.9378	18.137	23.61		0.000		NO	0.0000		0.0311	0.06158
44	1st Func. Penta-Furans				0.9782	18.137	27.04		0.000		NO			0.0184	
45	Total Penta-Furans				0.9782	18.137	29.27		0.000		NO	0.0000		0.0375	0.05884
46	Total Hexa-Furans				1.1500	18.137	31.88		0.000		NO	0.0004		0.0428	0.07700
47	Total Hepta-Furans				1.1500	18.137	37.83		0.000		NO			0.0587	
48	PFK1														
49	PFK2														
50	PFK3														

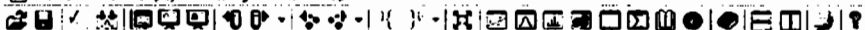
#	Name	Pred.RT	RT	ret Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	aly	EMPC	Conc.
1	Total Hexa-Furans	33.58	33.22	3.952e0	3.475e0	1.248	1.14	NO	8.00844	0.0064404
2	1,2,3,4,7,8-HxCDF	33.78	33.80	2.333e0	1.800e1	1.248	0.15	YES	8.00363	0.00000
3	1,2,3,6,7,8-HxCDF	33.91	33.82	1.760e1	2.663e0	1.248	6.61	YES	8.00474	0.00000
4	1,2,3,4,6,7,8-HxCDF	34.51	34.48	1.810e1	3.305e0	1.248	5.78	YES	8.00863	0.00000



Custom Reporting: Select reports to generate

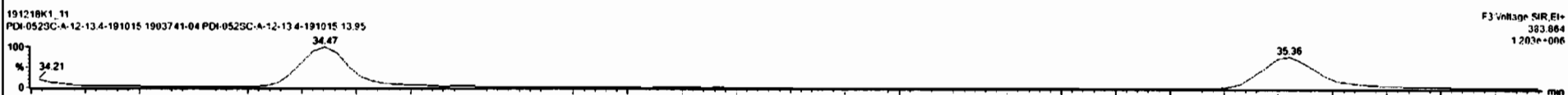
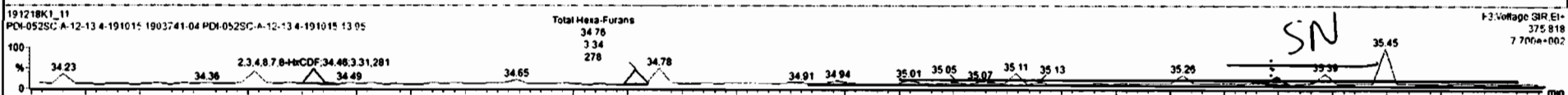
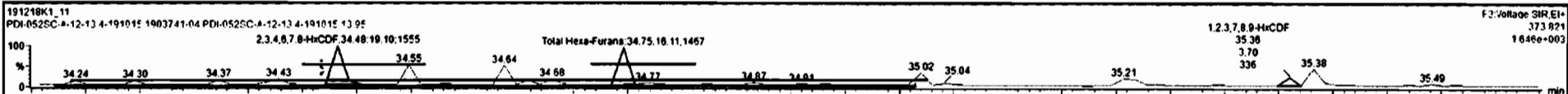
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ID	Name	Resp	RA	Adj	RP	RPVal	Prod.RT	RT	Prod.R.	RTT	RTT Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				1.0375	10.137	38.80		0.000	NO	1.054	0.400	1.585		
43	Total Tetra-Furans				0.9376	10.137	23.61		0.000	NO	0.0000	0.0311	0.08159		
44	1st Func. Penta-Furans				0.9762	10.137	27.64		0.000	NO	0.0000	0.0184			
45	Total Penta-Furans				0.9762	10.137	29.27		0.000	NO	0.0000	0.0375	0.05884		
46	Total Hexa-Furans				1.1360	10.137	35.58		0.000	NO	0.0004	0.0425	0.09988		
47	Total Hepta-Furans				1.1360	10.137	37.83		0.000	NO	0.0000	0.0367			
48	PFK1														
49	PFK2														
50	PFK3														

ID	Name	Prod.RT	RT	rt Resp	m2 Resp	1st Ratio (Prod)	RA	Adj	EMPC	Conc.
3	1,2,3,6,7,8-HxCDF	33.91	33.92	1.760e1	2.063e0	1.249	6.61	YES	0.00474	0.00000
4	2,3,4,6,7,8-HxCDF	34.51	34.48	1.910e1	3.305e0	1.249	5.78	YES	0.00093	0.00000
5	Total Hexa-Furans	33.58	34.75	1.611e1	3.344e0	1.240	4.62	YES	0.00610	0.00000
6	1,2,3,7,8,9-HxCDF	35.36	35.36	3.697e0	1.645e0	1.240	2.25	YES	0.00368	0.00000



Custom Reporting: Select reports to generate

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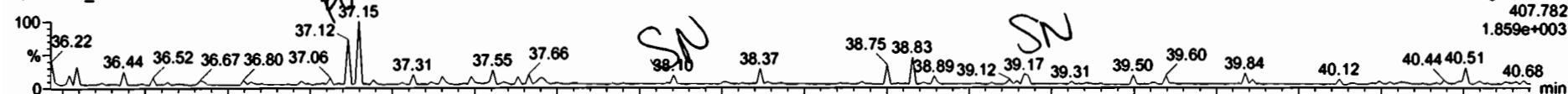
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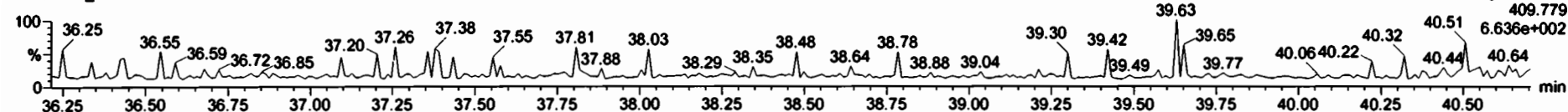
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1,2,3,4,6,7,8-HpCDF

191218K1\_11



191218K1\_11

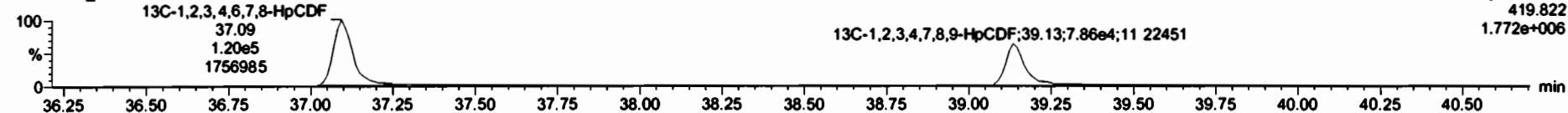


13C-1,2,3,4,6,7,8-HpCDF

191218K1\_11

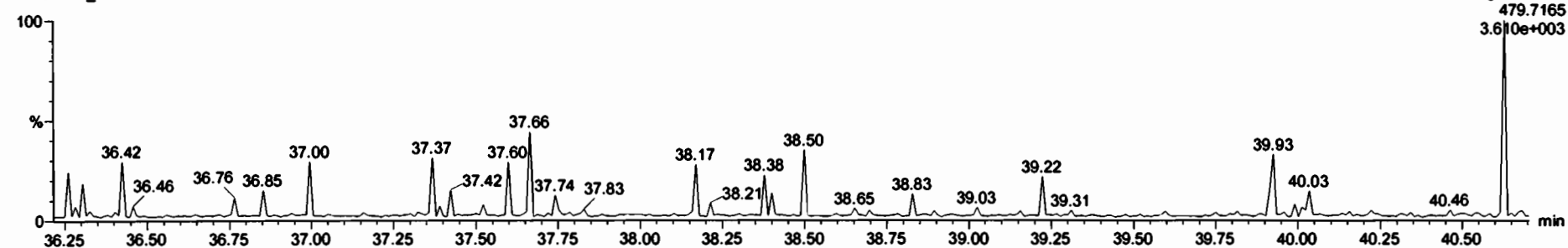


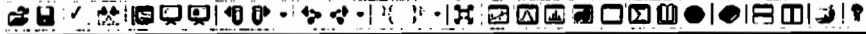
191218K1\_11



DPE4

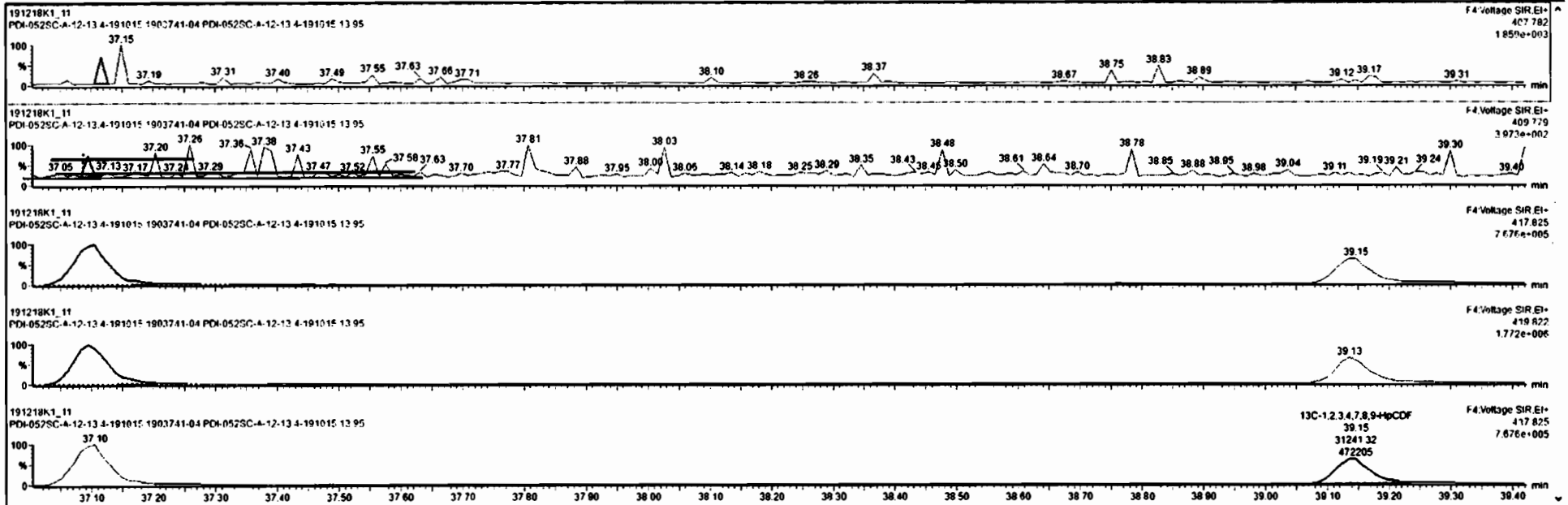
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#	#	Name	Resp	RA	aly	RF	rfVal	Pred.RT	RT	Pred.L	RFT	RFT Fail	Conc.	%Res	DL	EMPC
42	42	Total Hepta-Furans				1.8375	18.137	38.80		0.000		NO	1.850		0.488	1.565
43	43	Total Tetra-Furans				0.9376	18.137	23.81		0.000		NO	0.0000		0.0311	0.00159
44	44	1st Func. Penta-Furans				0.9782	18.137	27.84		0.000		NO			0.0184	
45	45	Total Penta-Furans				0.9782	18.137	29.27		0.000		NO	0.0000		0.0375	0.05884
46	46	Total Hexa-Furans				1.1800	18.137	33.56		0.000		NO	0.0064		0.0423	0.03185
47	47	Total Octa-Furans				1.1200	38.787	37.80		0.000		NO	0.0000		0.0000	0.0000
48	48	PFK1														
49	49	PFK2														
50	50	PFK3														

#	Name	Pred.RT	RT	net Resp	net Resp	1 <sup>st</sup> Ratio (Pred)	RA	aly	EMPC	Conc.
1	1,2,3,4,6,7,8-mpCDF	37.14	37.12	1.381e1	2.343e0	1.940	5.81	YES	0.00480...	0.00000



Custom Reporting: Select reports to generate

Type here to search



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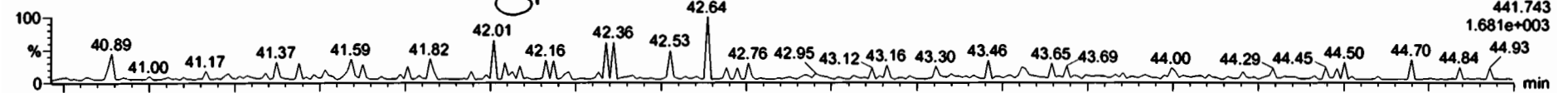
Last Altered: Thursday, December 19, 2019 07:42:21 Pacific Standard Time

Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

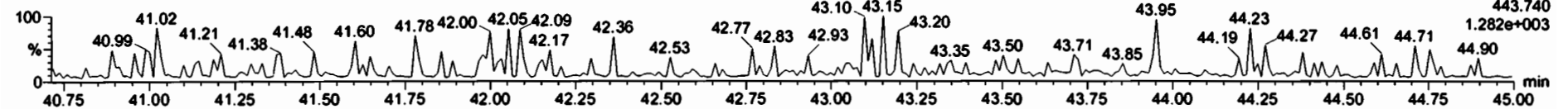
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OCDF

191218K1\_11

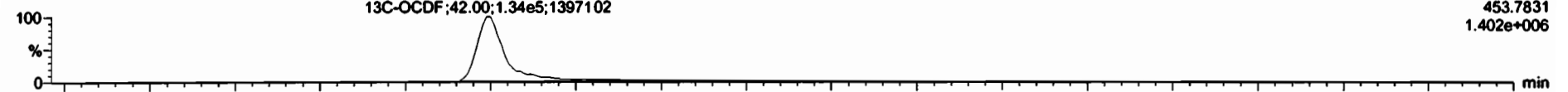


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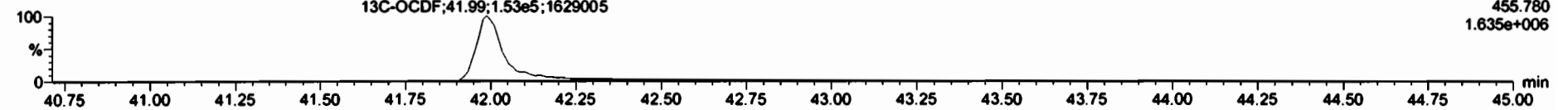


13C-OCDF

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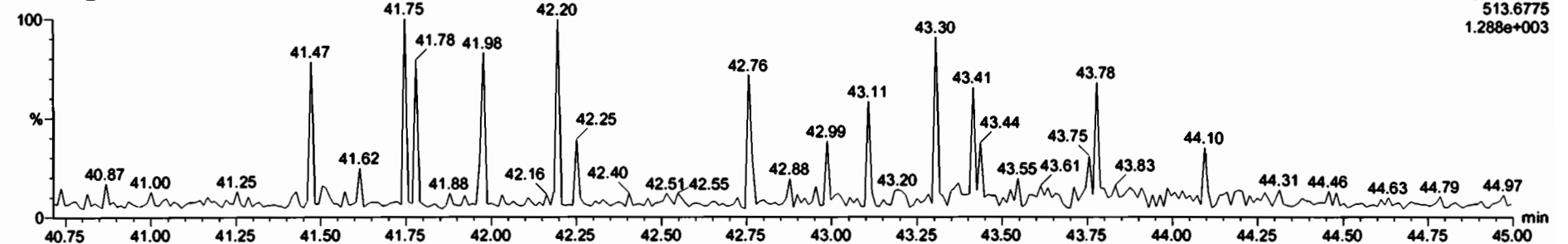


191218K1\_11



DPE5

191218K1\_11

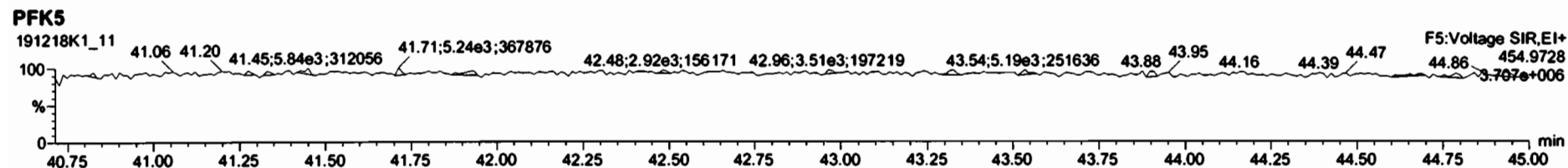
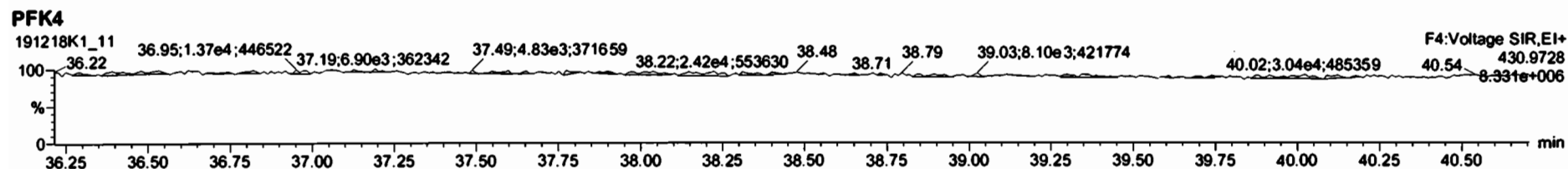
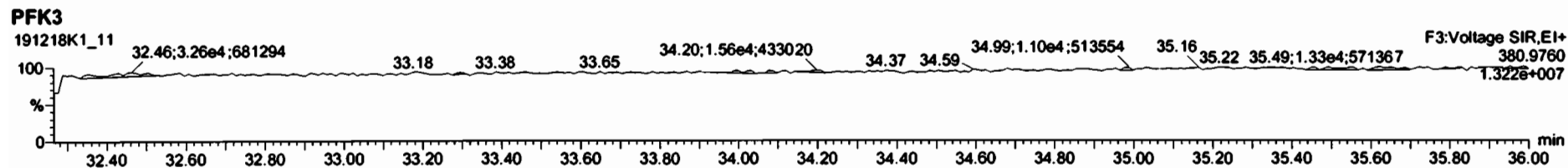
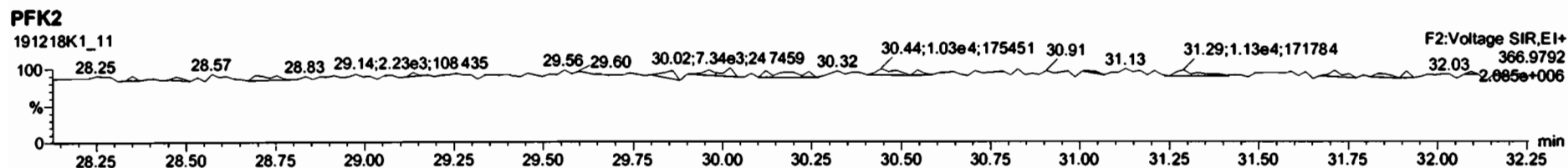
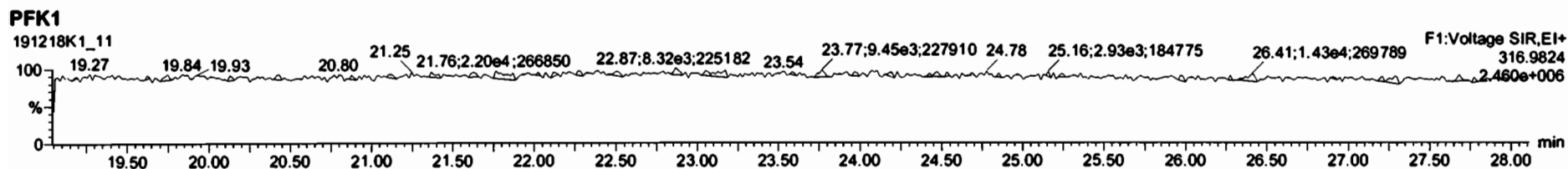




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Last Altered: Thursday, December 19, 2019 07:42:21 Pacific Standard Time  
Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

Name: 191218K1\_11, Date: 19-Dec-2019, Time: 01:37:11, ID: 1903741-04 PDI-052SC-A-12-13.4-191015 13.95, Description: PDI-052SC-A-12-13.4-191015



Dataset: U:\VG11.PRO\Results\191218K1\191218K1-12.qld

Last Altered: Friday, December 20, 2019 09:45:49 Pacific Standard Time  
Printed: Friday, December 20, 2019 09:48:42 Pacific Standard Time

GRB 12/20/19

ET 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

Name: 191218K1\_12, Date: 19-Dec-2019, Time: 02:25:04, ID: 1903741-05 PDI-055SC-A-11-12-191015 14.32, Description: PDI-055SC-A-11-12-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			YES	0.925	9.997	26.17		1.00		YES			0.199	
2	2 1,2,3,7,8-PeCDD			YES	0.905	9.997	31.31		1.00		YES			0.197	
3	3 1,2,3,4,7,8-HxCDD			YES	1.07	9.997	34.66		1.00		YES			0.212	
4	4 1,2,3,6,7,8-HxCDD			YES	0.967	9.997	34.75		1.00		YES			0.184	
5	5 1,2,3,7,8,9-HxCDD			YES	0.978	9.997	35.06		1.00		YES			0.239	
6	6 1,2,3,4,6,7,8-HpCDD			YES	1.04	9.997	38.54		1.00		YES			0.309	
7	7 OCDD	662.751	0.888	NO	0.972	9.997	41.80	41.81	1.00	1.00	NO	1.733		0.666	1.733
8	8 2,3,7,8-TCDF			YES	0.938	9.997	25.17		1.00		YES			0.106	
9	9 1,2,3,7,8-PeCDF			YES	0.976	9.997	30.00		1.00		YES			0.0760	
10	10 2,3,4,7,8-PeCDF			YES	1.00	9.997	31.02		1.00		YES			0.0616	
11	11 1,2,3,4,7,8-HxCDF			YES	1.24	9.997	33.78		1.00		YES			0.0493	
12	12 1,2,3,6,7,8-HxCDF			YES	1.10	9.997	33.91		1.00		YES			0.0534	
13	13 2,3,4,6,7,8-HxCDF			YES	1.18	9.997	34.51		1.00		YES			0.0524	
14	14 1,2,3,7,8,9-HxCDF	19.679	2.611	YES	1.07	9.997	35.35	35.37	1.00	1.00	NO	0.02344		0.0388	0.01454
15	15 1,2,3,4,6,7,8-HpCDF			YES	1.13	9.997	37.13		1.00		YES			0.0821	
16	16 1,2,3,4,7,8,9-HpCDF			YES	1.26	9.997	39.15		1.00		YES			0.0927	
17	17 OCDF			YES	1.10	9.997	41.99		1.00		YES			0.273	
18	18 13C-2,3,7,8-TCDD	244138.101	0.787	NO	1.05	9.997	26.13	26.14	1.03	1.03	NO	173.8	86.9	0.753	
19	19 13C-1,2,3,7,8-PeCDD	171285.473	0.615	NO	0.743	9.997	31.27	31.29	1.23	1.23	NO	172.2	86.1	0.569	
20	20 13C-1,2,3,4,7,8-HxCDD	112011.313	1.205	NO	0.646	9.997	34.64	34.65	1.01	1.01	NO	146.3	73.2	1.06	
21	21 13C-1,2,3,6,7,8-HxCDD	155989.531	1.234	NO	0.777	9.997	34.73	34.75	1.02	1.02	NO	169.6	84.8	0.879	
22	22 13C-1,2,3,7,8,9-HxCDD	123251.621	1.380	NO	0.659	9.997	35.01	35.02	1.02	1.03	NO	157.8	78.9	1.03	
23	23 13C-1,2,3,4,6,7,8-HpCDD	113332.449	1.076	NO	0.534	9.997	38.51	38.53	1.13	1.13	NO	179.1	89.5	1.36	
24	24 13C-OCDD	157492.328	0.867	NO	0.470	9.997	41.79	41.80	1.22	1.22	NO	282.7	70.7	1.98	
25	25 13C-2,3,7,8-TCDF	351606.109	0.720	NO	0.977	9.997	25.14	25.14	0.99	0.99	NO	182.6	91.3	0.861	
26	26 13C-1,2,3,7,8-PeCDF	235824.203	1.466	NO	0.778	9.997	29.96	29.98	1.18	1.18	NO	153.9	76.9	1.50	
27	27 13C-2,3,4,7,8-PeCDF	297258.343	1.562	NO	0.750	9.997	30.95	30.99	1.22	1.22	NO	201.2	101	1.56	
28	28 13C-1,2,3,4,7,8-HxCDF	169905.293	0.517	NO	0.845	9.997	33.77	33.78	0.99	0.99	NO	169.7	84.8	1.98	
29	29 13C-1,2,3,6,7,8-HxCDF	205694.266	0.553	NO	1.03	9.997	33.89	33.90	0.99	0.99	NO	169.2	84.6	1.63	
30	30 13C-2,3,4,6,7,8-HxCDF	184823.559	0.527	NO	0.893	9.997	34.46	34.47	1.01	1.01	NO	174.8	87.4	1.88	
31	31 13C-1,2,3,7,8,9-HxCDF	156543.371	0.490	NO	0.734	9.997	35.37	35.35	1.04	1.03	NO	180.0	90.0	2.28	

Dataset: U:\VG11.PRO\Results\191218K1\191218K1-12.qld

Last Altered: Friday, December 20, 2019 09:45:49 Pacific Standard Time

Printed: Friday, December 20, 2019 09:48:42 Pacific Standard Time

Name: 191218K1\_12, Date: 19-Dec-2019, Time: 02:25:04, ID: 1903741-05 PDI-055SC-A-11-12-191015 14.32, Description: PDI-055SC-A-11-12-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	153775.898	0.467	NO	0.754	9.997	37.08	37.09	1.09	1.09	NO	172.2	86.1	1.55	
33	33 13C-1,2,3,4,7,8,9-HpCDF	112007.195	0.428	NO	0.539	9.997	39.11	39.15	1.14	1.15	NO	175.5	87.7	2.17	
34	34 13C-OCDF	221963.953	0.891	NO	0.593	9.997	41.97	41.99	1.23	1.23	NO	316.3	79.1	1.29	
35	35 37Cl-2,3,7,8-TCDD	100285.305			1.07	9.997	26.15	26.15	1.03	1.03	NO	70.03	87.5	0.126	
36	36 13C-1,2,3,4-TCDD	267882.633	0.803	NO	1.00	9.997	25.45	25.43	1.00	1.00	NO	200.1	100	0.790	
37	37 13C-1,2,3,4-TCDF	394094.422	0.760	NO	1.00	9.997	23.55	23.52	1.00	1.00	NO	200.1	100	0.841	
38	38 13C-1,2,3,4,6,9-HxCDF	236938.274	0.508	NO	1.00	9.997	34.16	34.16	1.00	1.00	NO	200.1	100	1.68	
39	39 Total Tetra-Dioxins				0.925	9.997	24.62		0.00		NO	0.0000		0.123	0.1586
40	40 Total Penta-Dioxins				0.905	9.997	29.96		0.00		NO			0.0950	
41	41 Total Hexa-Dioxins				0.967	9.997	33.63		0.00		NO	0.1610		0.128	0.2542
42	42 Total Hepta-Dioxins				1.04	9.997	38.80		0.00		NO	0.4901		0.175	0.4901
43	43 Total Tetra-Furans				0.938	9.997	23.61		0.00		NO			0.0422	
44	44 1st Func. Penta-Furans				0.976	9.997	27.04		0.00		NO			0.0273	
45	45 Total Penta-Furans				0.976	9.997	29.27		0.00		NO			0.0354	
46	46 Total Hexa-Furans				1.18	9.997	33.56		0.00		NO	0.0000		0.0243	0.02247
47	47 Total Hepta-Furans				1.13	9.997	37.83		0.00		NO			0.0505	

Dataset: U:\VG11.PRO\Results\191218K1\191218K1-12.qld

Last Altered: Friday, December 20, 2019 09:45:49 Pacific Standard Time

Printed: Friday, December 20, 2019 09:48:51 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: 191218K1\_12, Date: 19-Dec-2019, Time: 02:25:04, ID: 1903741-05 PDI-055SC-A-11-12-191015 14.32, Description: PDI-055SC-A-11-12-191015

**Tetra-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	0.00e0	2.44e5	1.404	YES	24.62	23.72	0.0000	0.1586

**Penta-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

**Hexa-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	1.02e2	0.00e0	1.257	NO	33.63	33.19	0.1610	0.1610
2	41 Total Hexa-Dioxins	0.00e0	0.00e0	0.769	YES	33.63	33.17	0.0000	0.09321

**Hepta-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	42 Total Hepta-Dioxins	2.88e2	1.13e5	1.139	NO	38.80	37.51	0.4901	0.4901

**Tetra-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

**Penta-Furans function 1**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									



Dataset: U:\VG11.PRO\Results\191218K1\191218K1-12.qld

Last Altered: Friday, December 20, 2019 09:45:49 Pacific Standard Time

Printed: Friday, December 20, 2019 09:48:51 Pacific Standard Time

Name: 191218K1\_12, Date: 19-Dec-2019, Time: 02:25:04, ID: 1903741-05 PDI-055SC-A-11-12-191015 14.32, Description: PDI-055SC-A-11-12-191015

**Penta-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

**Hexa-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	0.00e0	0.00e0	0.433	YES	33.56	32.80	0.0000	0.0079...
2	14 1,2,3,7,8,9-HxCDF	1.97e1	1.57e5	2.611	YES	35.35	35.37	0.0000	0.01454

**Hepta-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

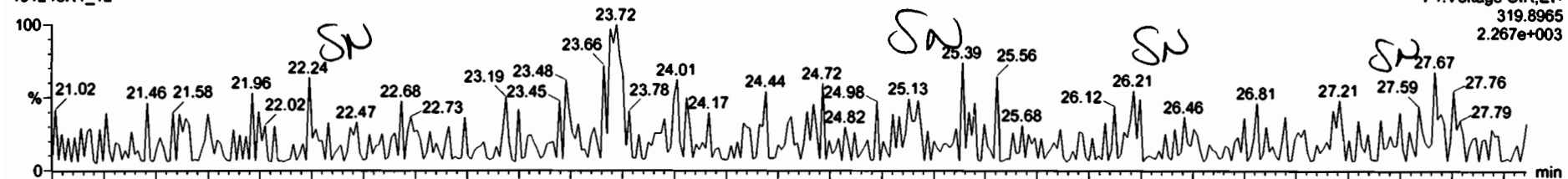
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Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

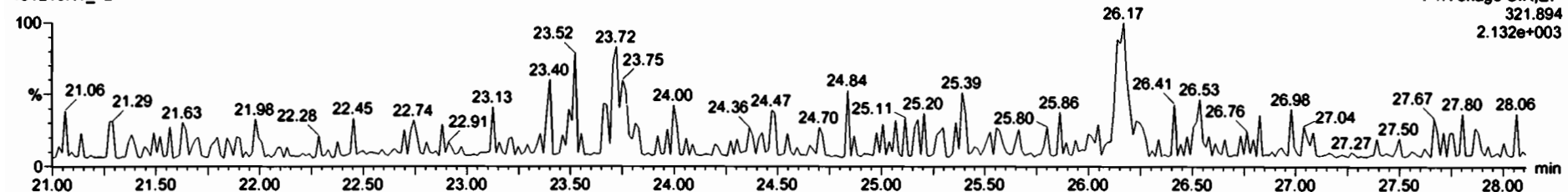
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2,3,7,8-TCDD

191218K1\_12

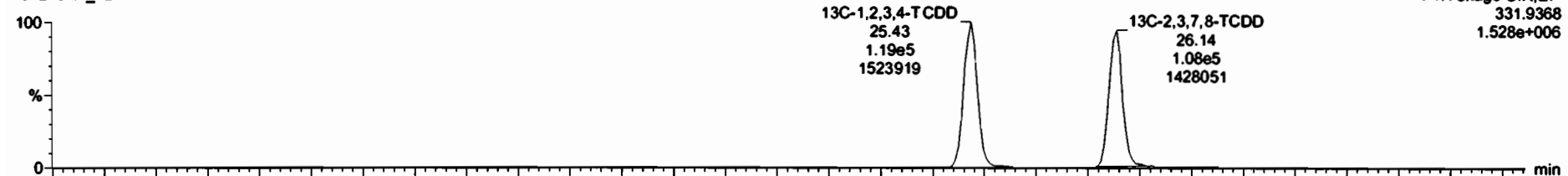


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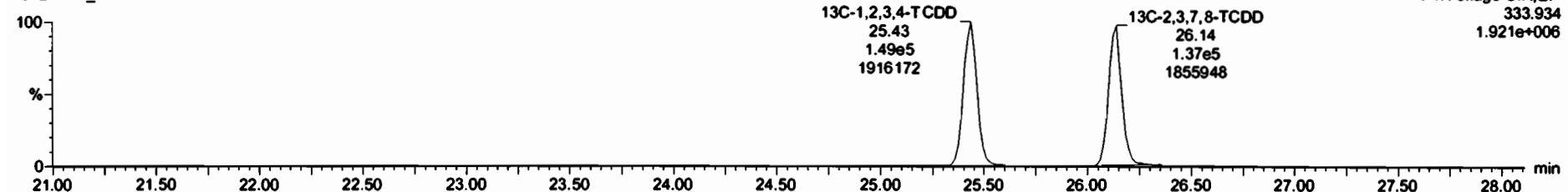


13C-2,3,7,8-TCDD

191218K1\_12



191218K1\_12





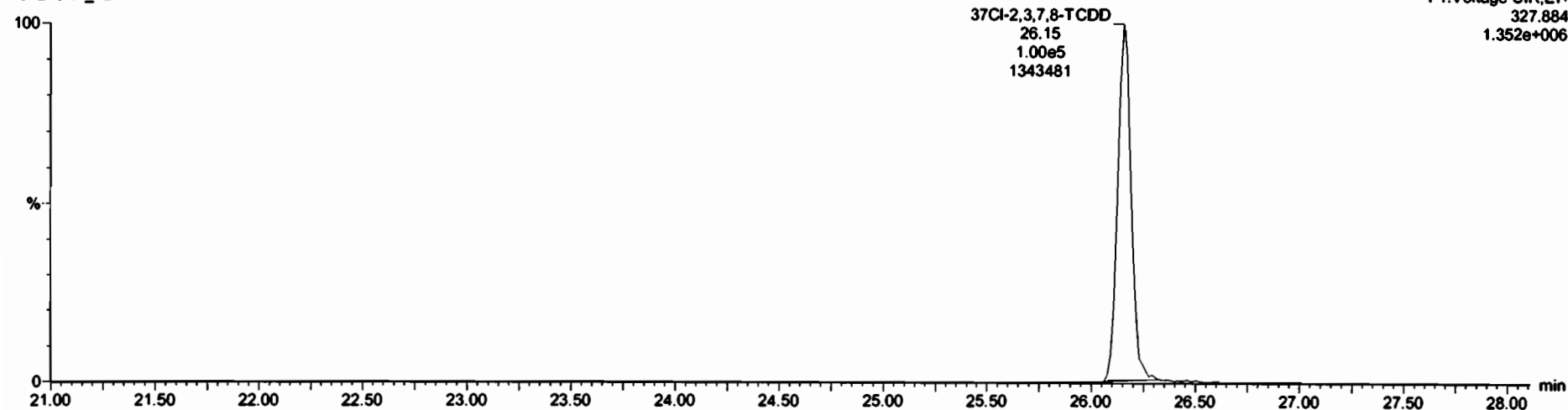
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Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

Name: 191218K1\_12, Date: 19-Dec-2019, Time: 02:25:04, ID: 1903741-05 PDI-055SC-A-11-12-191015 14.32, Description: PDI-055SC-A-11-12-191015

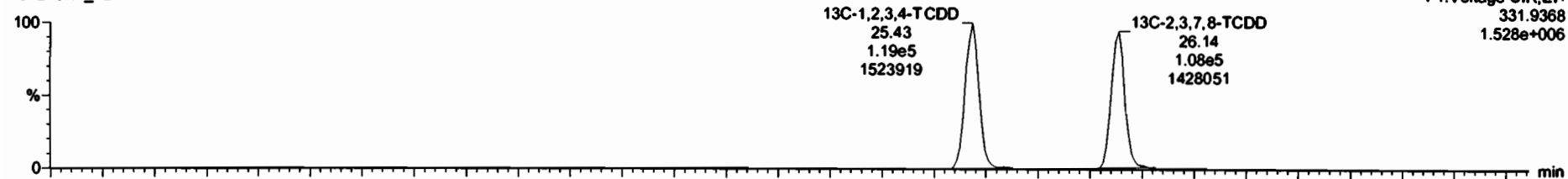
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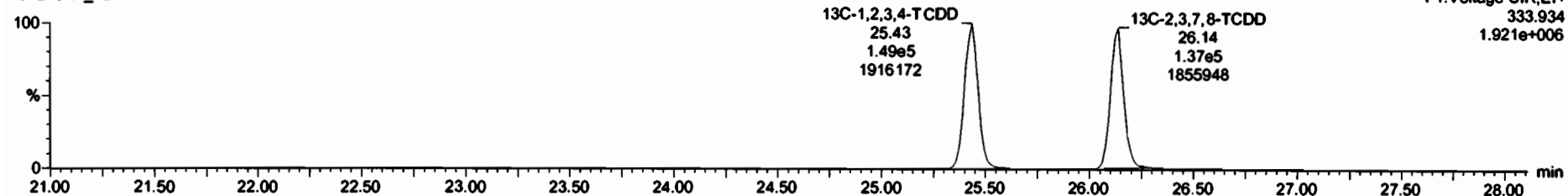


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191218K1\_12



191218K1\_12



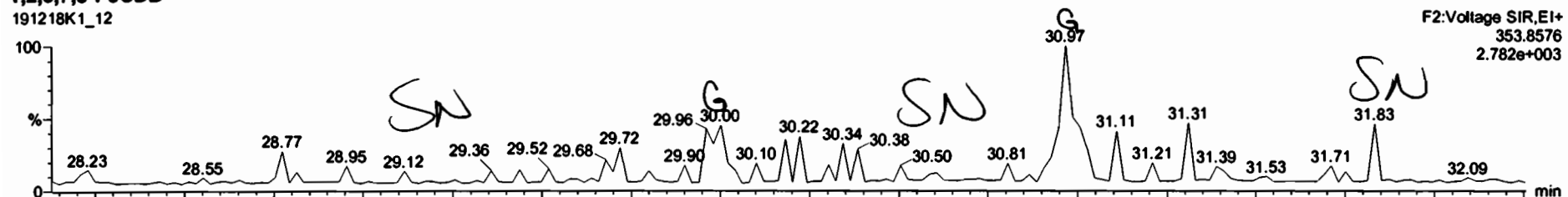
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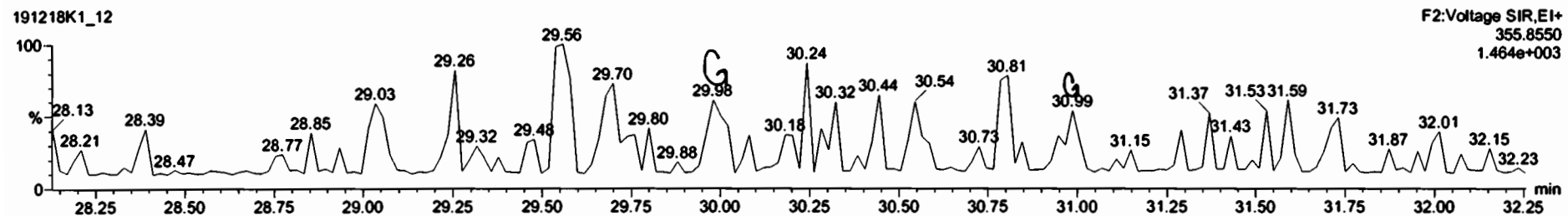
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1,2,3,7,8-PeCDD

191218K1\_12

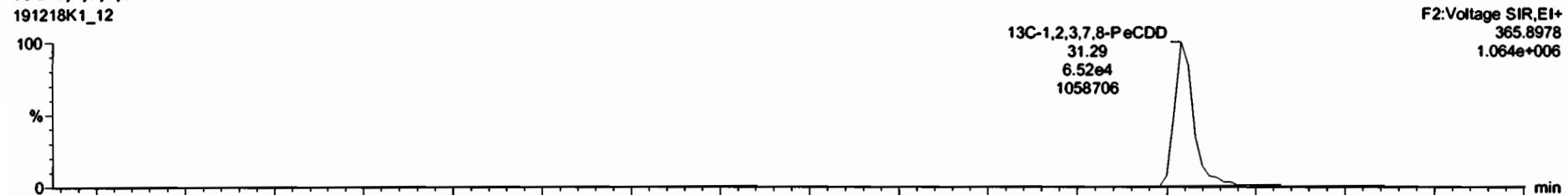


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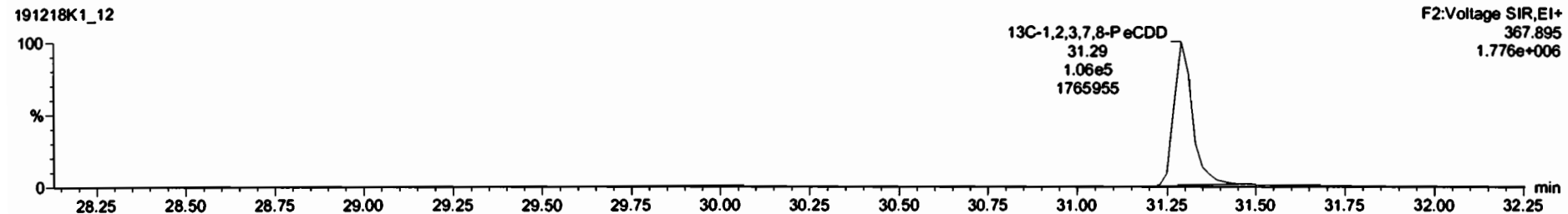


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191218K1\_12



191218K1\_12



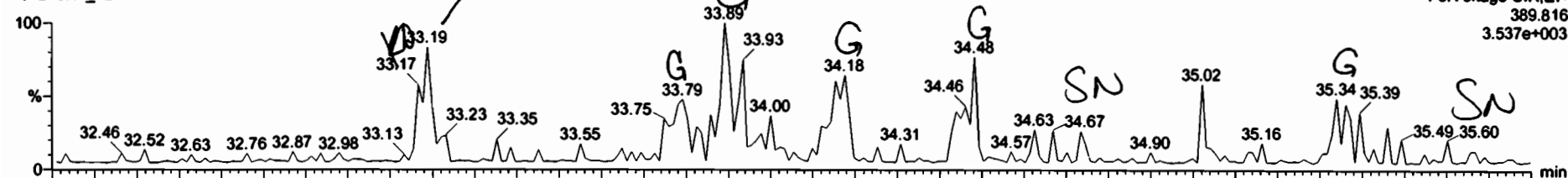
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Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

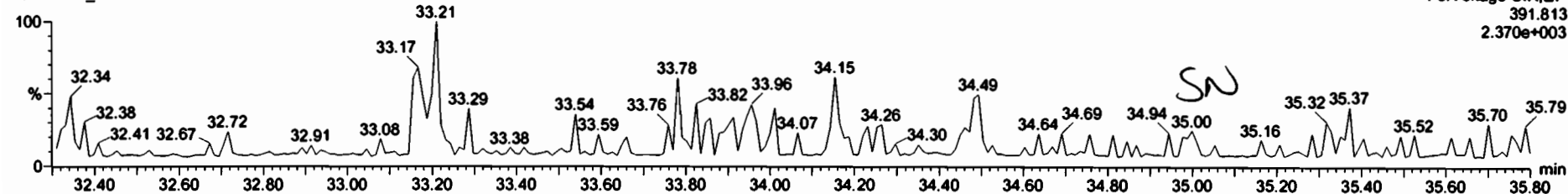
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1,2,3,4,7,8-HxCDD

191218K1\_12

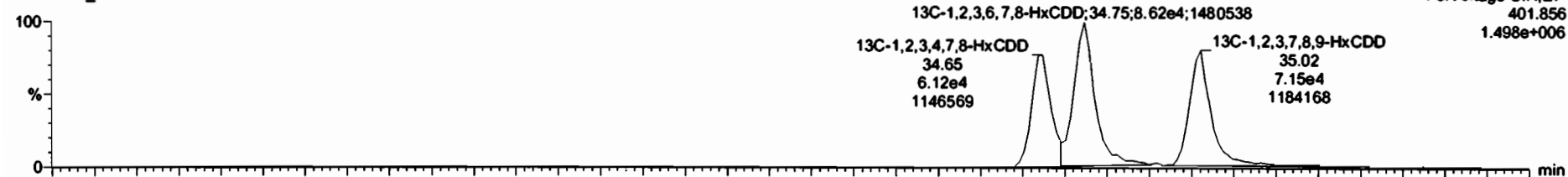


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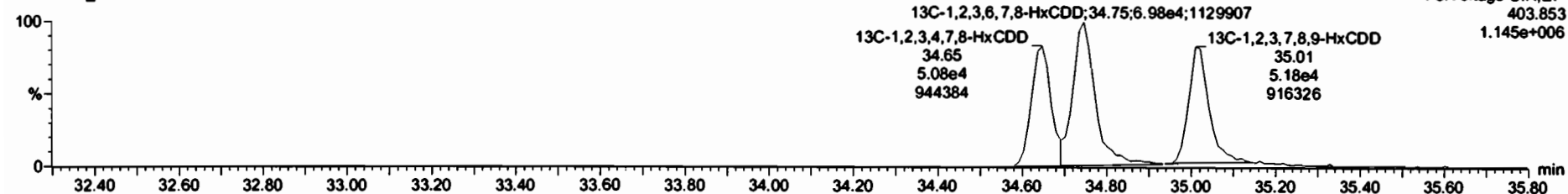


13C-1,2,3,4,7,8-HxCDD

191218K1\_12



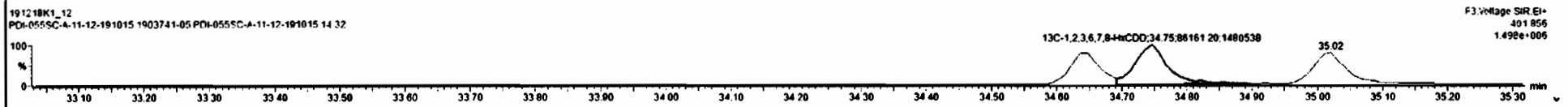
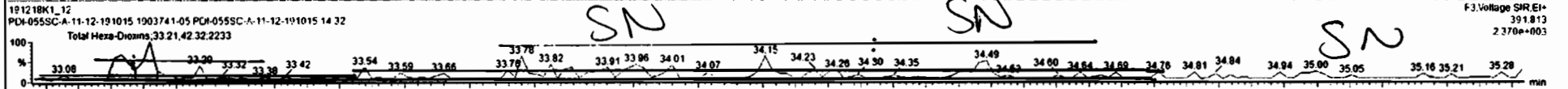
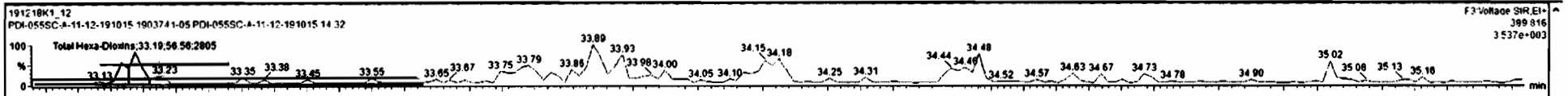
191218K1\_12





#	#	Name	Resp	RA	aly	RP	wt/ht	Prod.RT	RT	Prod.R	RRT	RRT Fail	Conc.	%Abs	DA	EMPC
30	30	Total Tetra-Dioxins				0.9249	0.997	24.82		0.000	NO	NO	0.0000		0.123	0.1508
40	40	Total Penta-Dioxins				0.9046	0.997	28.80		0.000	NO	NO			0.0950	
41	41	Total Hexa-Dioxins				0.9575	0.997	33.65		0.000	NO	NO	0.1810		0.128	0.3842
42	42	Total Hepta-Dioxins				0.9375	0.997	36.90		0.000	NO	NO			0.175	
43	43	Total Tetra-Furans				0.9376	0.997	23.81		0.000	NO	NO			0.0422	
44	44	1st Func. Penta-Furans				0.9782	0.997	27.04		0.000	NO	NO			0.0273	
45	45	Total Penta-Furans				0.9782	0.997	29.27		0.000	NO	NO			0.0354	
46	46	Total Hexa-Furans				1.1880	0.997	33.58		0.000	NO	NO			0.0243	
47	47	Total Hepta-Furans				1.1300	0.997	37.83		0.000	NO	NO			0.0512	

#	#	Name	Prod.RT	RT	wt Resp	ht Resp	1 <sup>st</sup> Ratio (Prod)	RA	aly	EMPC	Conc.
1	41	Total Hexa-Dioxins	33.63	33.17	3.254e1	4.232e1	1.240	0.77	YES	0.993207	0.00000
2	41	Total Hexa-Dioxins	33.63	33.19	5.956e1	4.498e1	1.240	1.26	NO	0.18100	0.18100



Dataset: Untitled

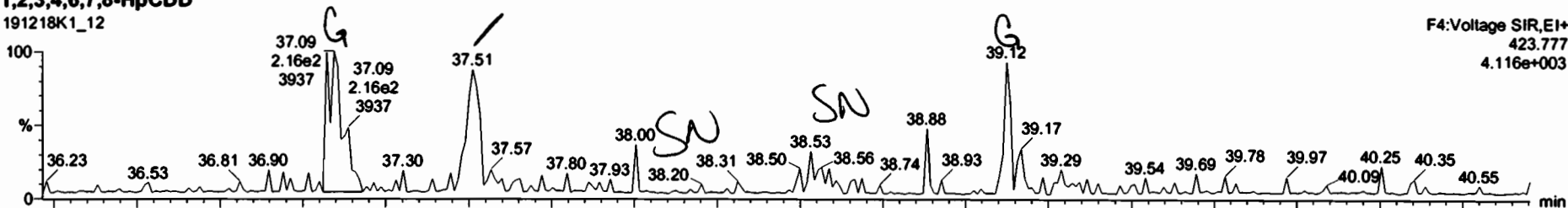
Last Altered: Thursday, December 19, 2019 07:42:21 Pacific Standard Time

Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

Name: 191218K1\_12, Date: 19-Dec-2019, Time: 02:25:04, ID: 1903741-05 PDI-055SC-A-11-12-191015 14.32, Description: PDI-055SC-A-11-12-191015

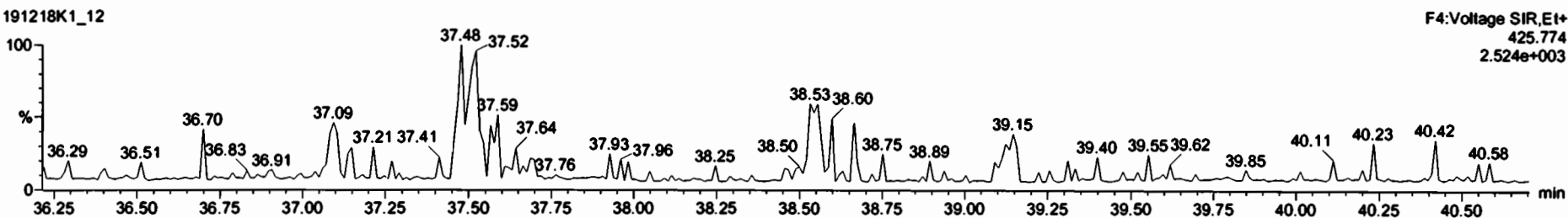
1,2,3,4,6,7,8-HpCDD

191218K1\_12



F4:Voltage SIR,EI+  
423.777  
4.116e+003

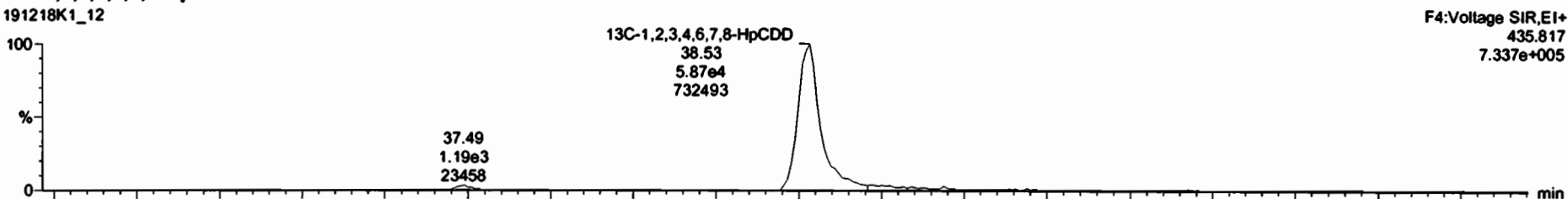
191218K1\_12



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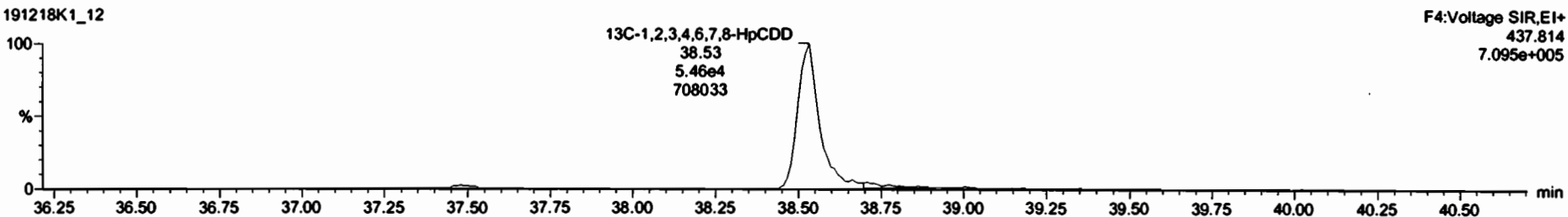
13C-1,2,3,4,6,7,8-HpCDD

191218K1\_12



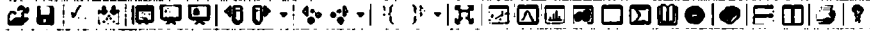
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191218K1\_12



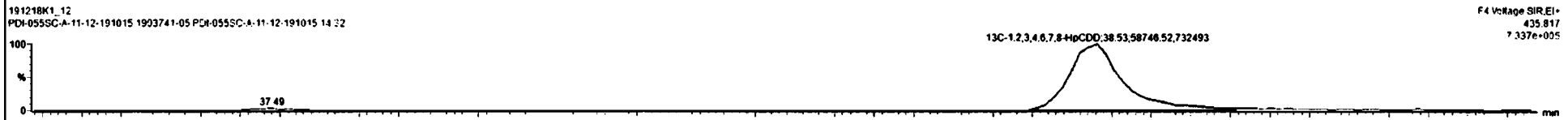
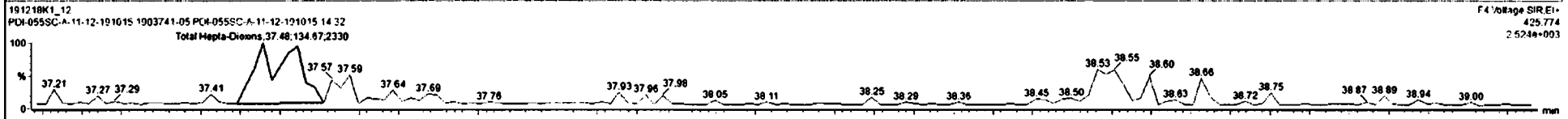
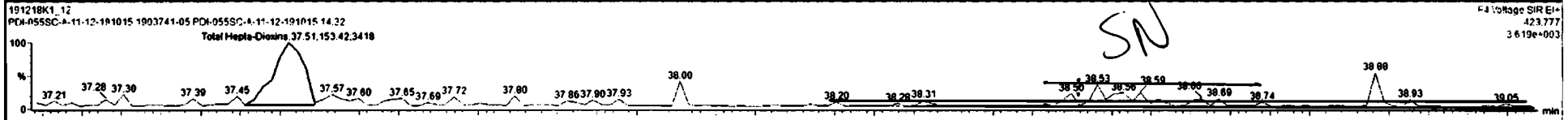
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#	Name	Resp	RA	aly	RF	retPred	Pred.RT	RT	Pred.R.	RT	RT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	9.997	24.62		0.000		NO	0.0000		0.121	0.1506
40	Total Penta-Dioxins				0.9046	9.997	28.96		0.000		NO			0.0950	
41	Total Hexa-Dioxins				0.9875	9.997	33.83		0.000		NO	0.1810		0.128	0.2542
42	Total Hepta-Dioxins				1.0079	9.997	36.80		0.000		NO	0.4891		0.179	0.4891
43	Total Tetra-Furans				0.9376	9.997	23.81		0.000		NO			0.0422	
44	1st Func. Penta-Furans				0.9782	9.997	27.04		0.000		NO			0.0273	
45	Total Penta-Furans				0.9782	9.997	29.27		0.000		NO			0.0354	
46	Total Hexa-Furans				1.1880	9.997	33.56		0.000		NO			0.0243	
47	Total Hepta-Furans				1.1300	9.997	37.83		0.000		NO			0.0512	

#	Name	Pred.RT	RT	ret Resp	id Resp	1 <sup>st</sup> Peak (Pred)	RA	aly	EMPC	Conc.
42	Total Hepta-Dioxins	36.80	37.51	1.534e2	1.347e2	1.040	1.14	NO	0.49014	0.49014

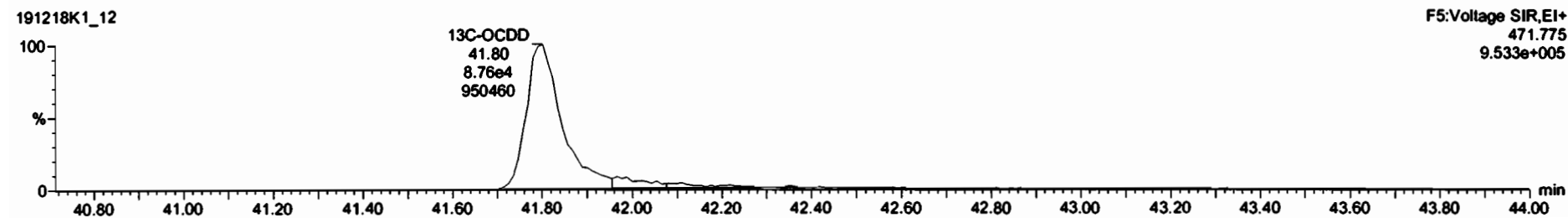
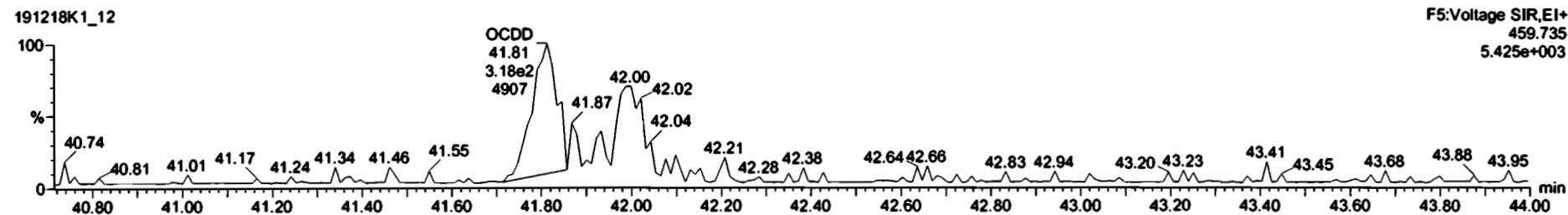
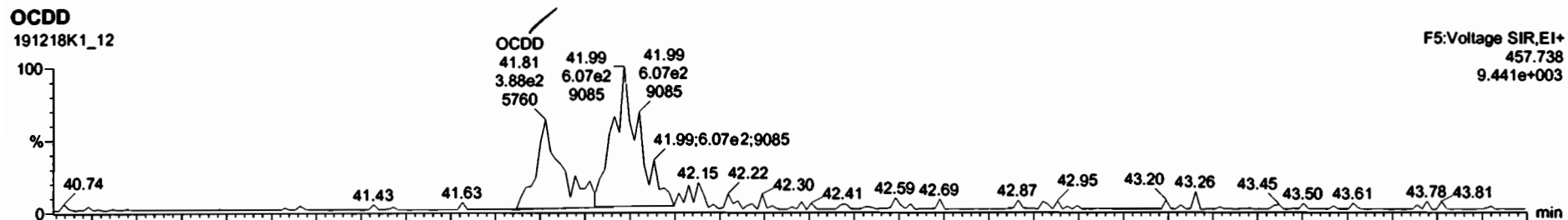


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Last Altered: Thursday, December 19, 2019 07:42:21 Pacific Standard Time

Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

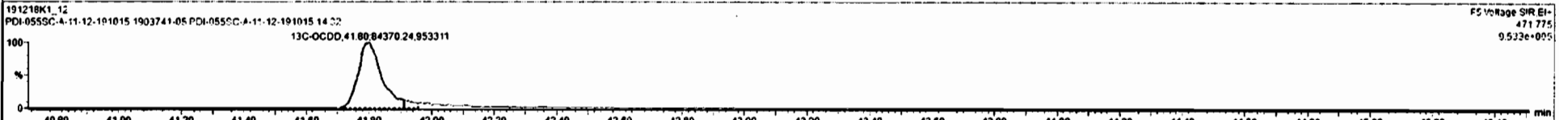
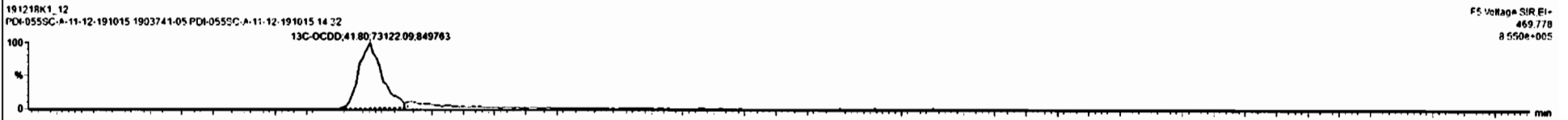
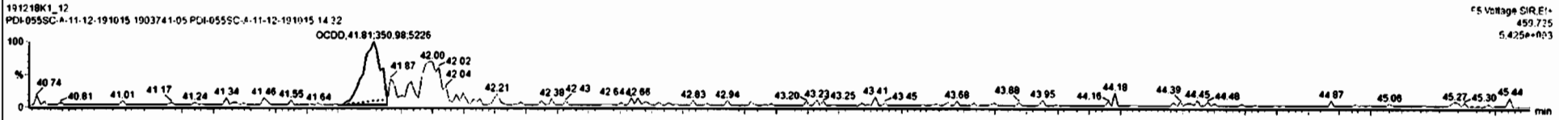
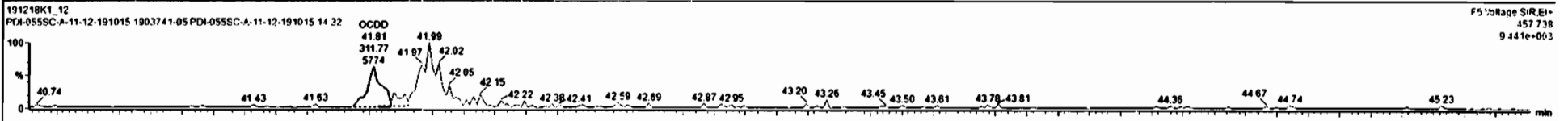
Name: 191218K1\_12, Date: 19-Dec-2019, Time: 02:25:04, ID: 1903741-05 PDI-055SC-A-11-12-191015 14.32, Description: PDI-055SC-A-11-12-191015





#	ID	Name	Resp	RA	dy	RPF	wfwt	Prod.RT	RT	Prod.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	1	2,3,7,8-TCDD			YES	0.9249	9.997	20.17		1.001		YES			0.199	
2	2	1,2,3,7,8-PeCDD			YES	0.9046	9.997	31.31		1.001		YES			0.197	
3	3	1,2,3,4,7,8-HxCDD			YES	1.0891	9.997	34.96		1.000		YES			0.212	
4	4	1,2,3,6,7,8-HxCDD			YES	0.9675	9.997	34.75		1.000		YES			0.184	
5	5	1,2,3,7,8-HxCDD			YES	0.9778	9.997	35.06		1.001		YES			0.230	
6	6	1,2,3,4,6,7,8-HpCDD			YES	1.0375	9.997	38.54		1.000		YES			0.309	
7	7	OCDD	0.0002	0.00	NO	0.9778	9.997	41.80	41.81	1.000	1.000	NO	1.730	0.000	1.730	
8	8	2,3,7,8-TCDF			YES	0.9370	9.997	25.17		1.001		YES			0.100	
9	9	1,2,3,7,8-PeCDF			YES	0.9762	9.997	30.00		1.001		YES			0.0760	

#	ID	Name	Prod.RT	RT	Int Resp	Ext Resp	1 <sup>st</sup> Ratio (Prod)	RA	dy	EMPC	Conc.
1											



Dataset: Untitled

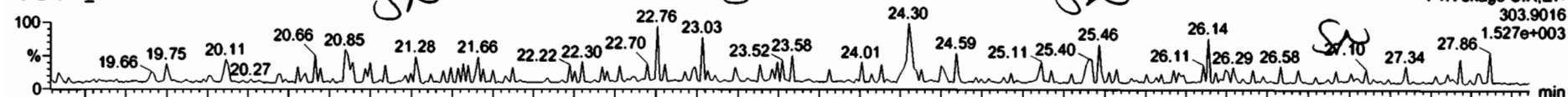
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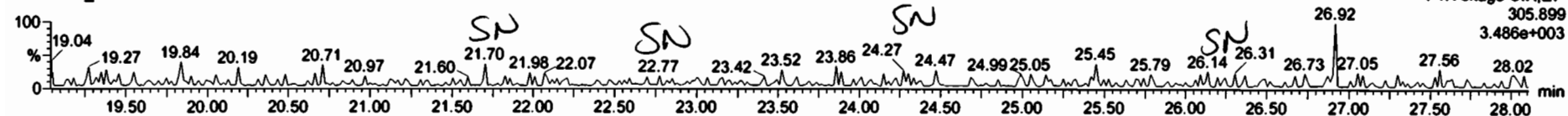
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2,3,7,8-TCDF

191218K1\_12

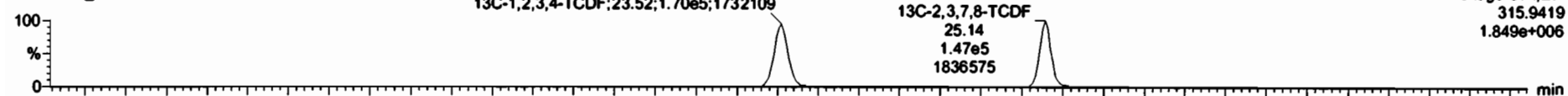


191218K1\_12

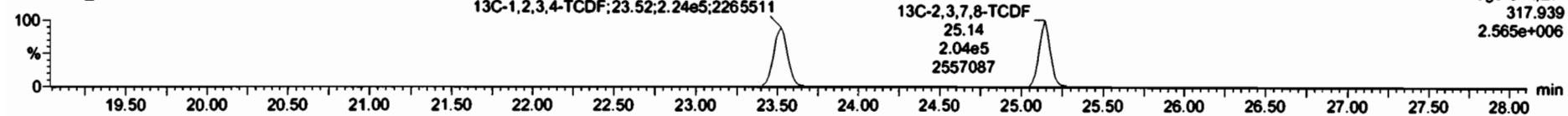


13C-2,3,7,8-TCDF

191218K1\_12

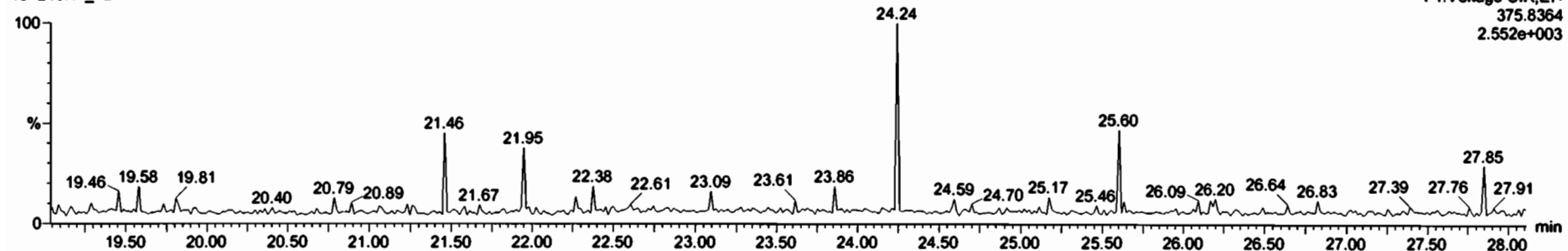


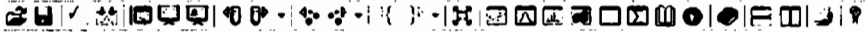
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DPE1

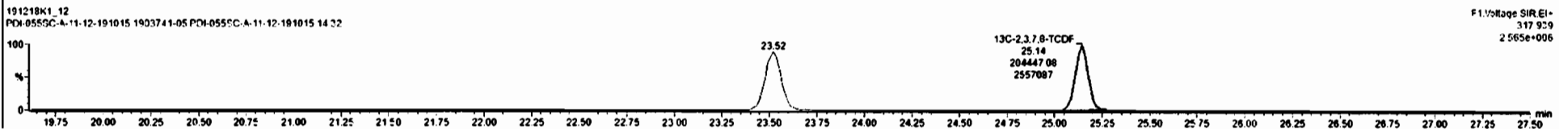
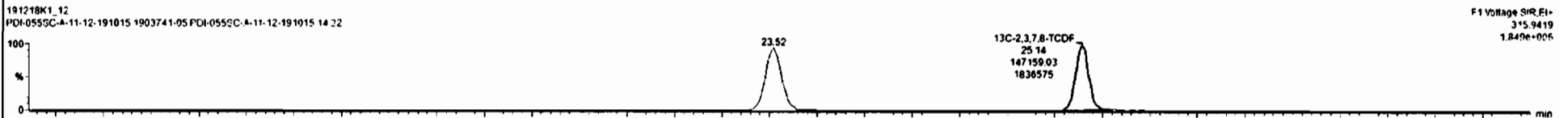
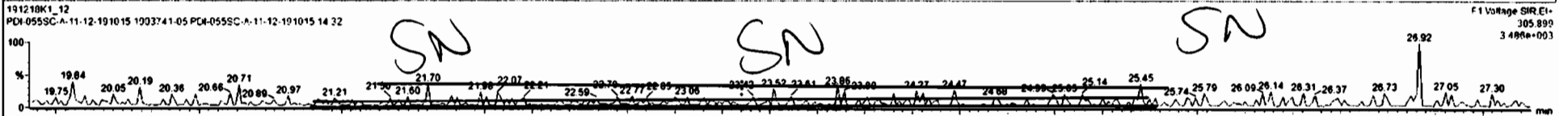
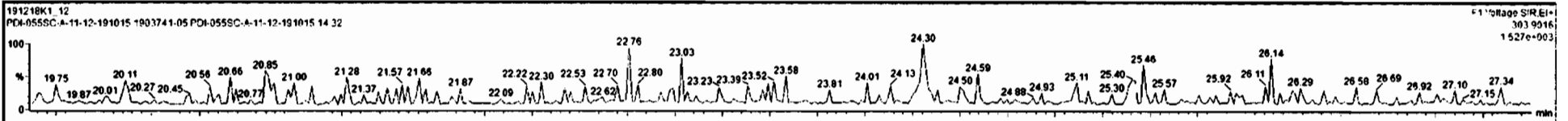
191218K1\_12





ID	Name	Resp	RA	nlv	RSP	WtVal	Prod RT	RT	Prod R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	0.997	24.42		0.000		NO	0.0000		0.123	0.1500
40	Total Penta-Dioxins				0.9046	0.997	29.95		0.000		NO			0.0950	
41	Total Hexa-Dioxins				0.9675	0.997	33.83		0.000		NO	0.1610		0.128	0.2542
42	Total Hepta-Dioxins				1.0375	0.997	38.80		0.000		NO	0.4901		0.175	0.4981
43	Total Octa-Dioxins				0.8578	0.997	23.81		0.000		NO			0.0422	
44	1st Func. Penta-Furans				0.9762	0.997	27.84		0.000		NO			0.0273	
45	Total Penta-Furans				0.9762	0.997	29.27		0.000		NO			0.0354	
46	Total Hexa-Furans				1.1808	0.997	33.56		0.000		NO			0.0243	
47	Total Hepta-Furans				1.1360	0.997	37.83		0.000		NO			0.0512	

ID	Name	Prod RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Prod)	RA	nlv	EMPC	Conc.
1										



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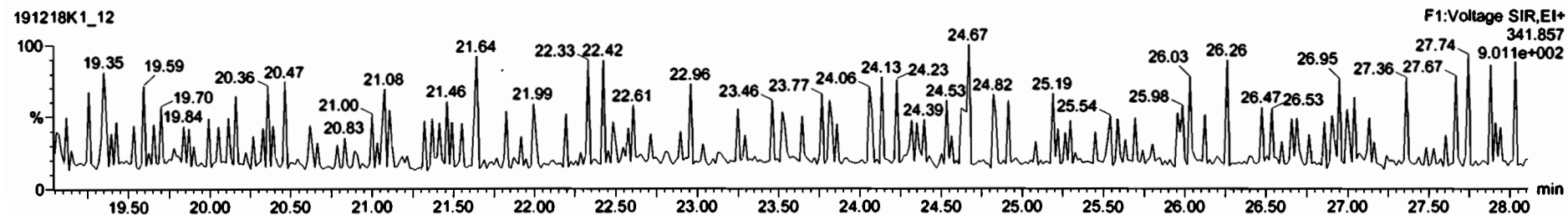
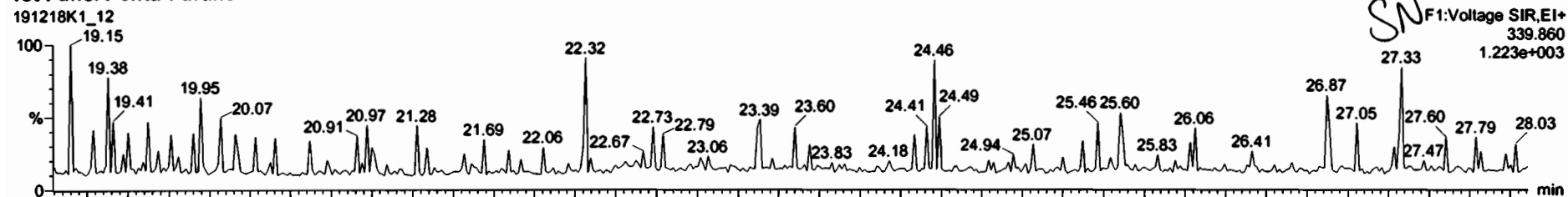
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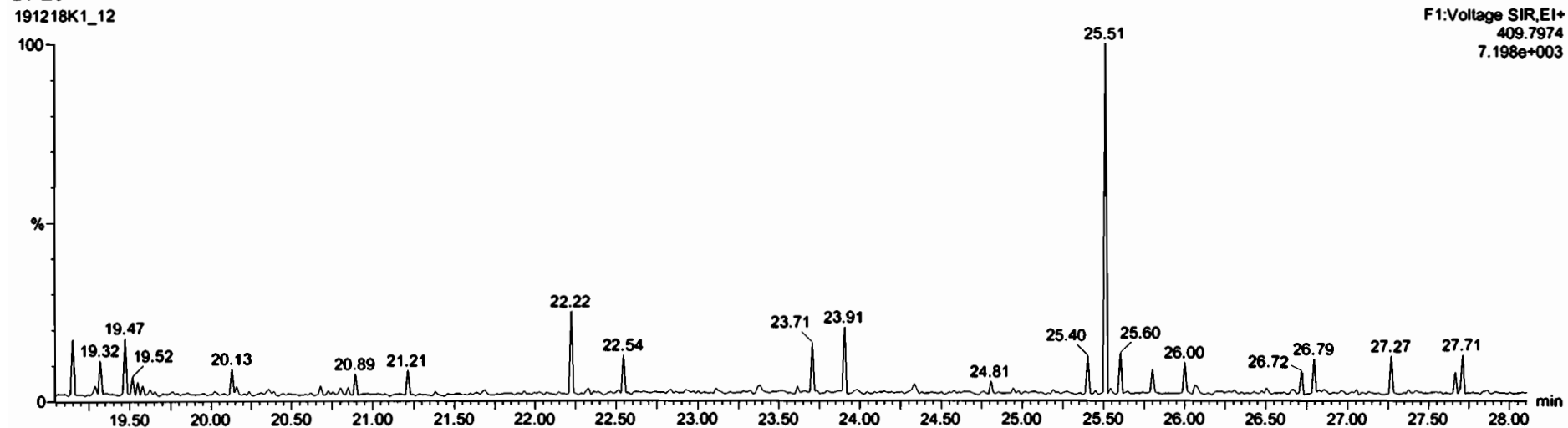
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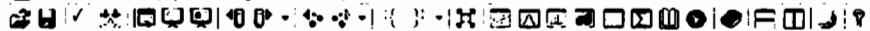
Name: 191218K1\_12, Date: 19-Dec-2019, Time: 02:25:04, ID: 1903741-05 PDI-055SC-A-11-12-191015 14.32, Description: PDI-055SC-A-11-12-191015

1st Func. Penta-Furans



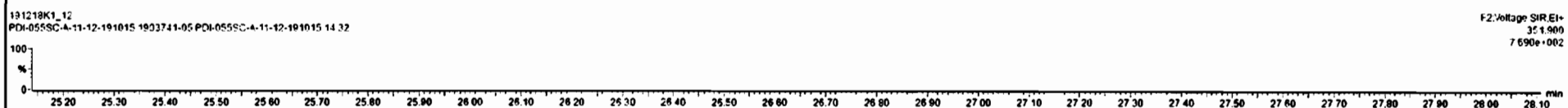
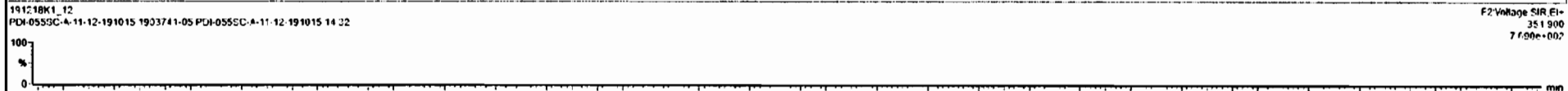
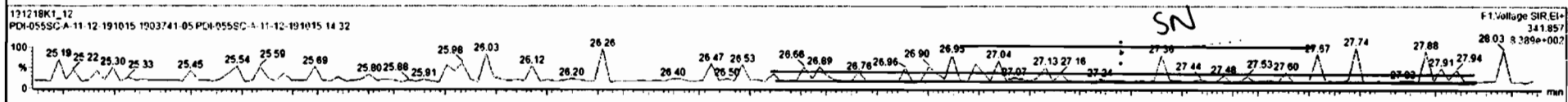
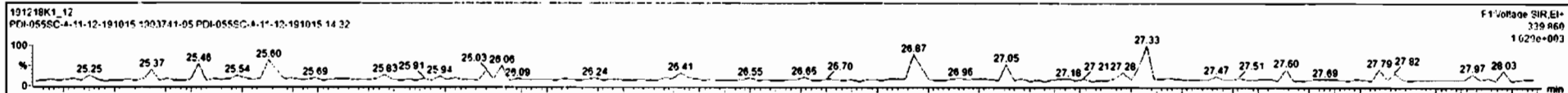
DPE6





#	Q	Name	Resp	RA	dy	RSP	w/val	Pred RT	RT	Pred R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	35	Total Tetra-Dioxins				0.9249	0.997	24.62		0.000		NO	0.0000		0.123	0.1506
40	40	Total Penta-Dioxins				0.9040	0.997	29.90		0.000		NO			0.0950	
41	41	Total Hexa-Dioxins				0.9875	0.997	33.83		0.000		NO	0.1610		0.128	0.2542
42	42	Total Hepta-Dioxins				1.0375	0.997	38.80		0.000		NO	0.4901		0.175	0.4901
43	43	Total Tetra-Furans				0.9376	0.997	23.61		0.000		NO			0.0422	
44	44	Total Penta-Furans				0.9762	0.997	29.27		0.000		NO			0.0354	
45	45	Total Hexa-Furans				1.1886	0.997	33.56		0.000		NO			0.0243	
47	47	Total Hepta-Furans				1.1380	0.997	37.83		0.000		NO			0.0512	

#	Q	Name	Pred RT	RT	wt Resp	nt Resp	1 <sup>st</sup> Ratio (Pred)	RA	dy	EMPC	Conc.
1											



Custom Reporting: Select reports to generate

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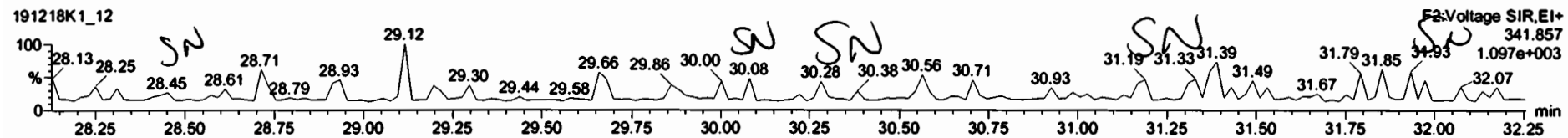
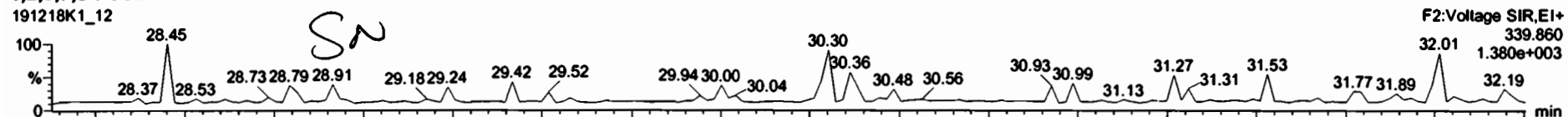
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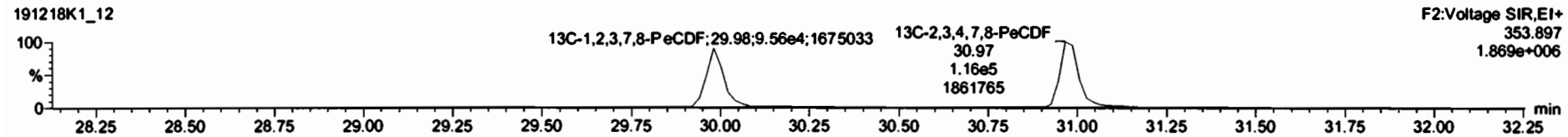
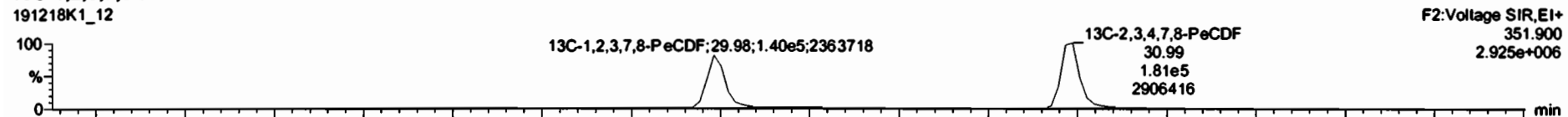
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Name: 191218K1\_12, Date: 19-Dec-2019, Time: 02:25:04, ID: 1903741-05 PDI-055SC-A-11-12-191015 14.32, Description: PDI-055SC-A-11-12-191015

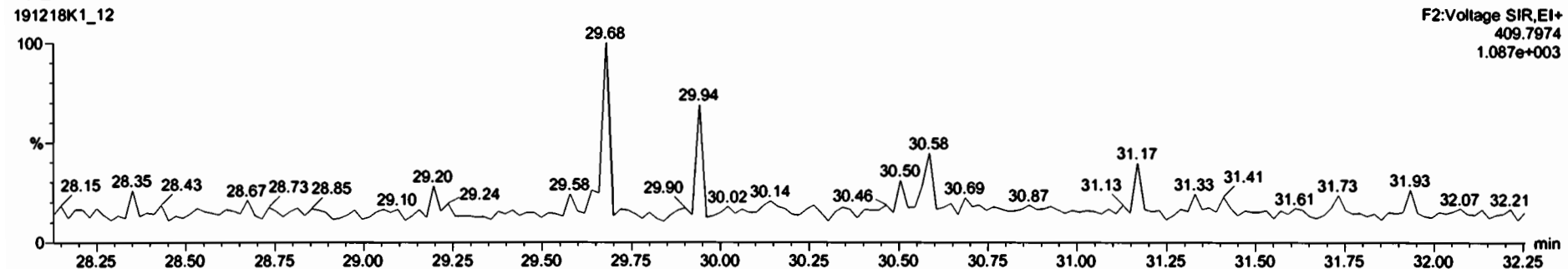
**1,2,3,7,8-PeCDF**



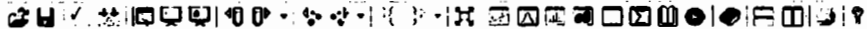
**13C-1,2,3,7,8-PeCDF**



**DPE2**

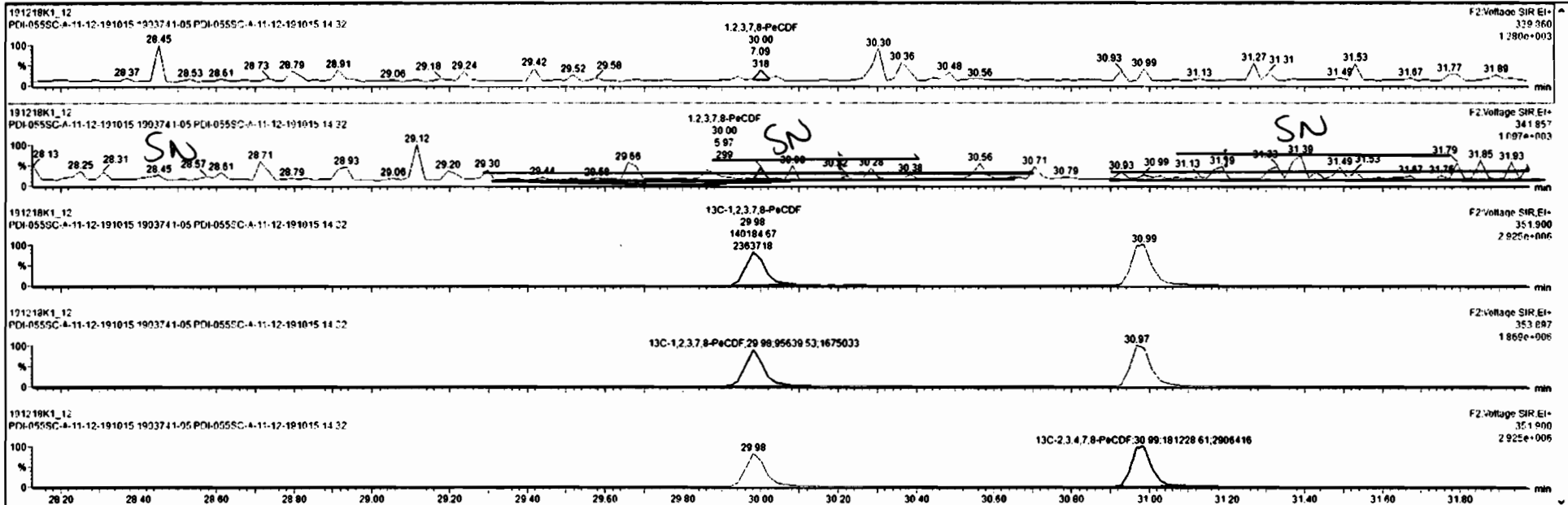






#	#	Name	Resp	RA	aly	RRF	wt/wt	Pred.RT	RT	Pred.R.	RRT	RRT Err	Conc.	%Rec	DL	EMPC
39	39	Total Tetra-Dioxins				0.9249	9.997	24.62		0.000		NO	0.0000		0.123	0.1500
40	40	Total Penta-Dioxins				0.9046	9.997	29.99		0.000		NO	0.0050			
41	41	Total Hexa-Dioxins				0.9875	9.997	33.83		0.000		NO	0.1610		0.128	0.2542
42	42	Total Hepta-Dioxins				1.0375	9.997	38.80		0.000		NO	0.4981		0.175	0.4981
43	43	Total Tetra-Furans				0.9376	9.997	23.61		0.000		NO			0.0422	
44	44	1st Func. Penta-Furans				0.9762	9.997	27.04		0.000		NO			0.0273	
45	45	Total Penta-Furans				0.9388	9.997	28.37		0.000		NO	0.0000		0.0304	0.01813
46	46	Total Hexa-Furans				1.1800	9.997	33.58		0.000		NO			0.0243	
47	47	Total Hepta-Furans				1.1300	9.997	37.83		0.000		NO			0.0512	

#	#	Name	Pred.RT	RT	wt Resp	id Resp	1* Rate (Pred)	RA	aly	EMPC	Conc.
1	9	1,2,3,7,8-PeCDF	30.00	30.00	7.086e0	5.975e0	1.550	1.19	YES	0.010130	0.00000



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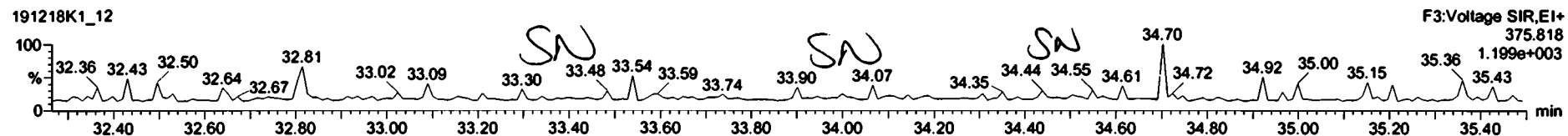
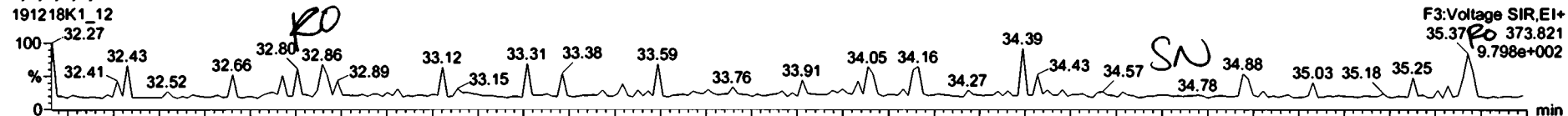


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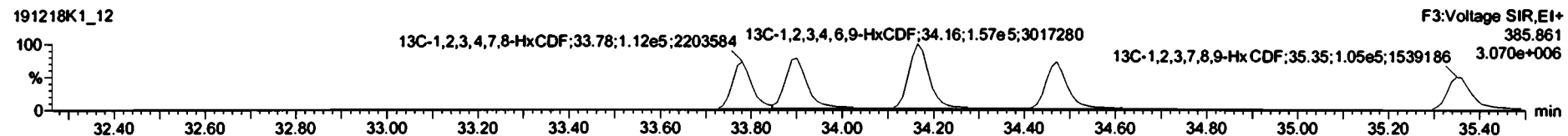
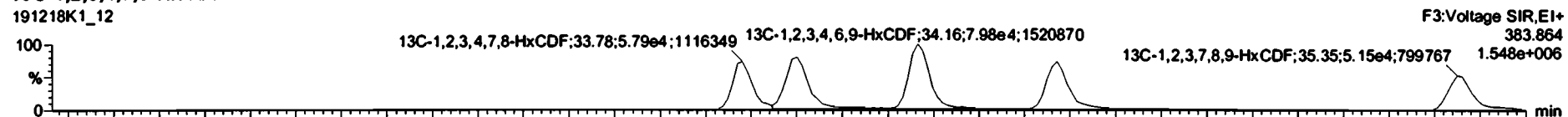
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Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

Name: 191218K1\_12, Date: 19-Dec-2019, Time: 02:25:04, ID: 1903741-05 PDI-055SC-A-11-12-191015 14.32, Description: PDI-055SC-A-11-12-191015

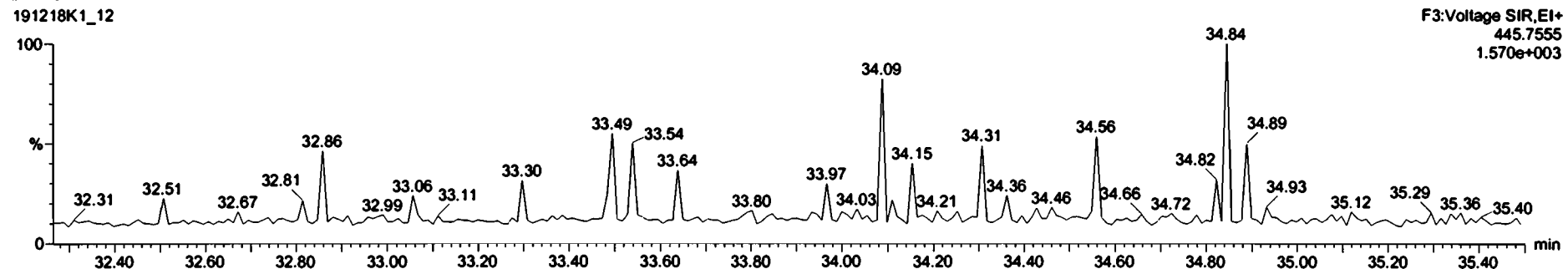
1,2,3,4,7,8-HxCDF



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



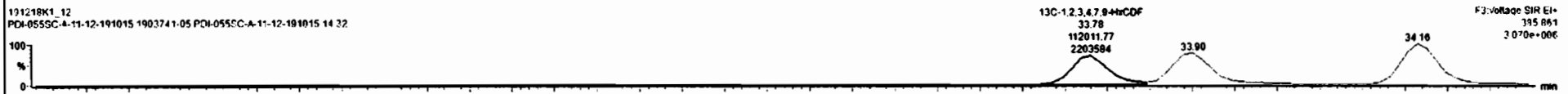
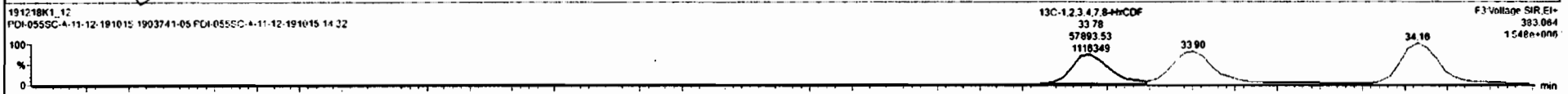
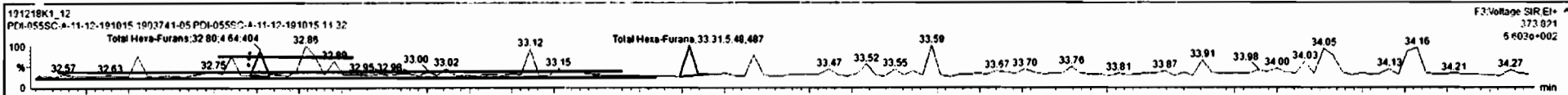
DPE3

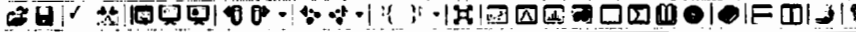




#	Name	Resp	RA	aly	RPV	wt/val	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	9.997	24.62		0.000		NO	0.0000		0.123	0.1586
40	Total Penta-Dioxins				0.9046	9.997	29.95		0.000		NO	0.0000		0.0950	
41	Total Hexa-Dioxins				0.9679	9.997	33.83		0.000		NO	0.1610		0.128	0.2542
42	Total Hepta-Dioxins				1.0375	9.997	38.80		0.000		NO	0.4901		0.175	0.4901
43	Total Tetra-Furans				0.9378	9.997	23.81		0.000		NO			0.0422	
44	tot Func. Penta-Furans				0.9782	9.997	27.84		0.000		NO			0.0273	
45	Total Penta-Furans				0.9782	9.997	29.27		0.000		NO	0.0000		0.0354	0.01013
46	Total Hexa-Furans				1.1008	9.997	33.58		0.000		NO	0.0000		0.0243	0.02702
47	Total Hepta-Furans				1.1360	9.997	37.83		0.000		NO			0.0512	

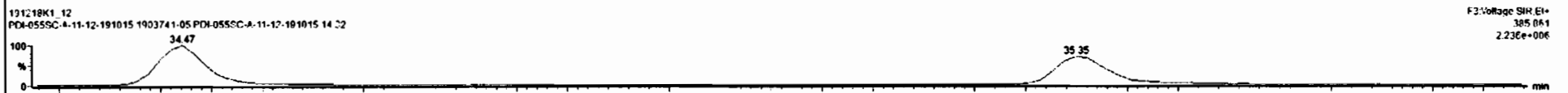
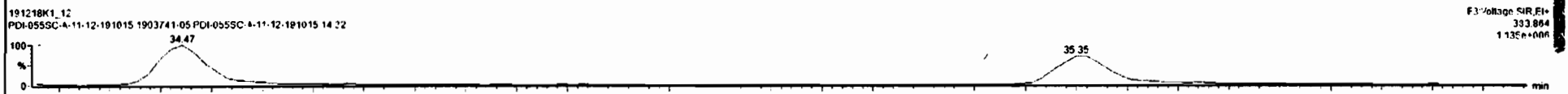
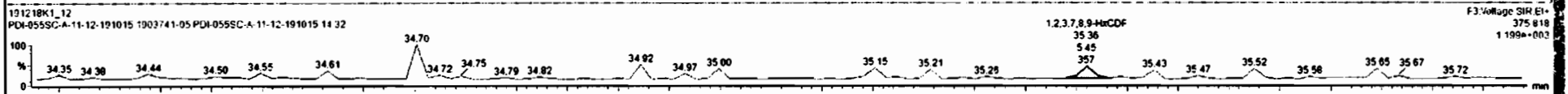
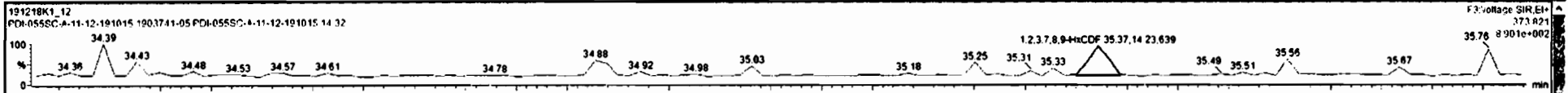
#	Name	Pred.RT	RT	ret Resp	m2 Resp	1° Resp (Pred)	RA	aly	EMPC	Conc.
1	Total Hexa-Furans	33.58	32.80	4.645e8	1.072e1	1.240	0.43	YES	0.00793	0.00000
2	Total Hexa-Furans	33.58	33.31	5.478e8	2.525e8	1.240	2.17	YES	0.00534	0.00000
3	1,2,3,7,8-HxCDF	35.35	35.37	1.423e1	5.450e0	1.240	2.61	YES	0.014542	0.00000





#	#	Name	Resp	RA	nly	RPF	wtVal	Prod RT	RT	Prod.RL	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	39	Total Tetra-Dioxins				0.9248	0.997	24.82		0.000		HO	0.0000		0.123	0.1586
40	40	Total Penta-Dioxins				0.9840	0.997	29.95		0.000		HO			0.0950	
41	41	Total Hexa-Dioxins				0.9675	0.997	33.83		0.000		HO	0.1610		0.126	0.2542
42	42	Total Hepta-Dioxins				1.0375	0.997	38.80		0.000		HO	0.4981		0.175	0.4981
43	43	Total Tetra-Furans				0.9376	0.997	23.81		0.000		HO			0.0422	
44	44	1st Func. Penta-Furans				0.9782	0.997	27.84		0.000		HO			0.0273	
45	45	Total Penta-Furans				0.9782	0.997	29.27		0.000		HO	0.0000		0.0354	0.01013
46	46	Total Hexa-Furans				1.1888	0.997	33.98		0.000		HO	0.0000		0.0243	0.02762
47	47	Total Hepta-Furans				1.1380	0.997	37.83		0.000		HO			0.0512	

#	#	Name	Prod RT	RT	ret Resp	m2 Resp	1st Ratio (Prod)	RA	nly	EMPC	Conc.
1	46	Total Hexa-Furans	33.56	32.80	4.645e0	1.072e1	1.240	0.43	YES	0.00793	0.00000
2	46	Total Hexa-Furans	33.56	33.31	5.478e0	2.525e0	1.240	2.17	YES	0.00514	0.00000
3	14	1,2,3,7,8,9-HxCDF	35.35	35.37	1.423e1	5.450e0	1.240	2.61	YES	0.014542	0.00000



Dataset: Untitled

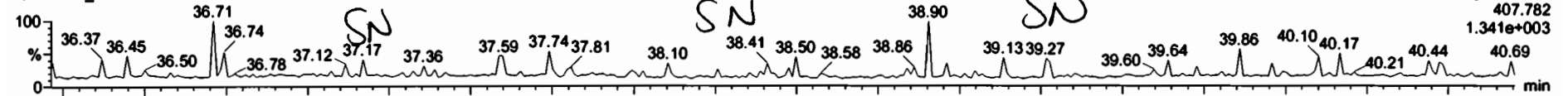
Last Altered: Thursday, December 19, 2019 07:42:21 Pacific Standard Time

Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

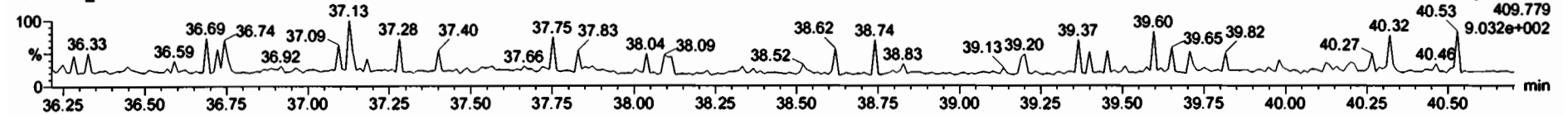
Name: 191218K1\_12, Date: 19-Dec-2019, Time: 02:25:04, ID: 1903741-05 PDI-055SC-A-11-12-191015 14.32, Description: PDI-055SC-A-11-12-191015

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

191218K1\_12

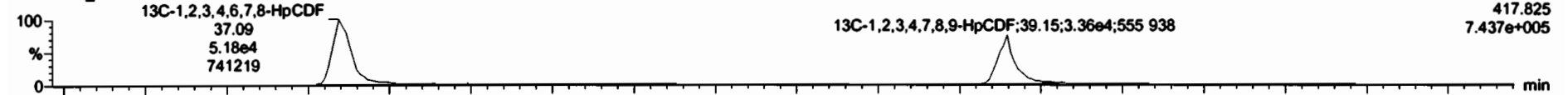


191218K1\_12

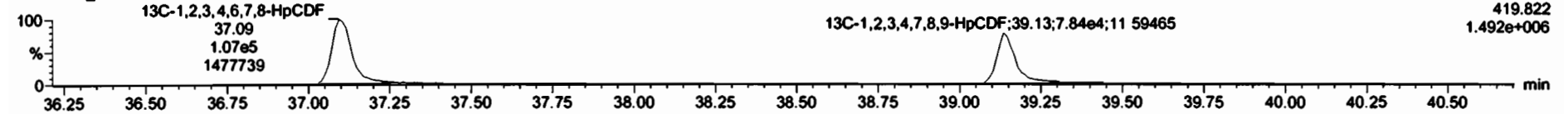


**13C-1,2,3,4,6,7,8-HpCDF**

191218K1\_12

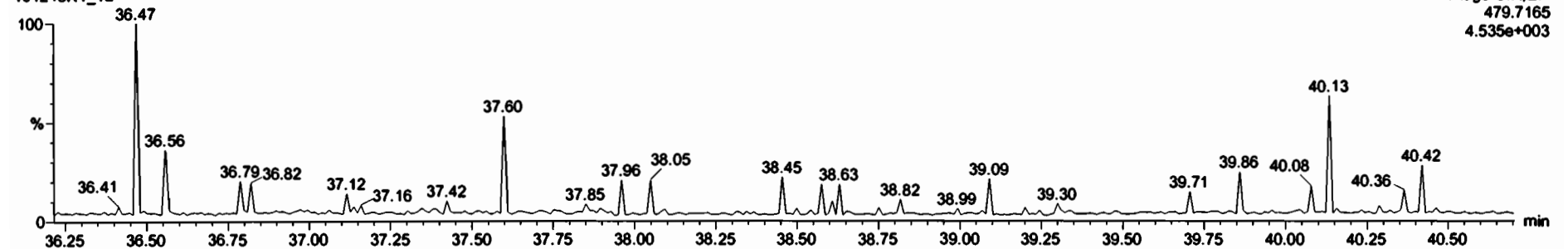


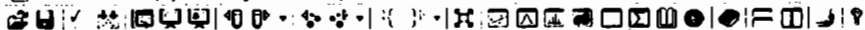
191218K1\_12



**DPE4**

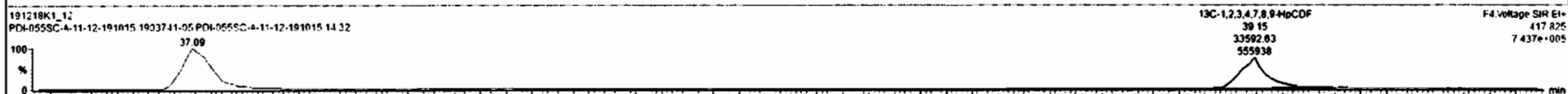
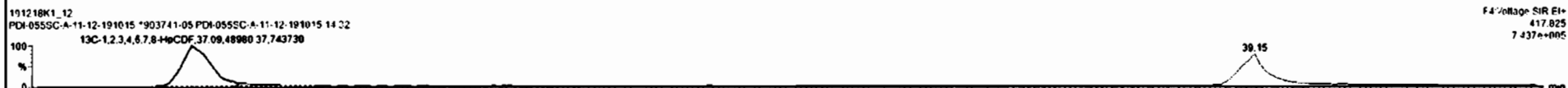
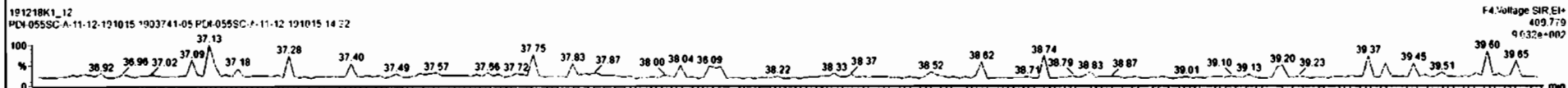
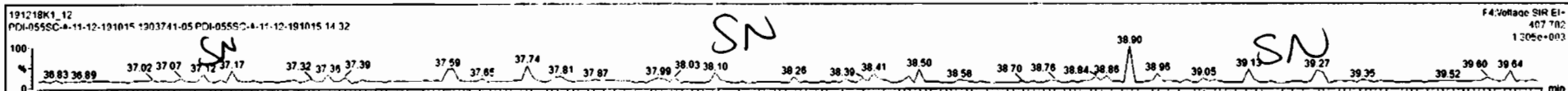
191218K1\_12





#	Name	Resp	RA	nly	RSP	ntPred	Pred.RT	RT	Pred.R.	RRT	RRT Fcl	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	9.997	24.62		0.000		NO	0.0000		0.123	0.1560
40	Total Penta-Dioxins				0.9046	9.997	29.96		0.000		NO			0.0950	
41	Total Hexa-Dioxins				0.9675	9.997	33.63		0.000		NO	0.1610		0.126	0.2542
42	Total Hepta-Dioxins				1.0375	9.997	36.00		0.000		NO	0.4901		0.175	0.4901
43	Total Tetra-Furans				0.9376	9.997	23.61		0.000		NO			0.0422	
44	1st Func. Pent-Furans				0.9762	9.997	27.04		0.000		NO			0.0273	
45	Total Penta-Furans				0.9762	9.997	29.27		0.000		NO	0.0000		0.0354	0.01013
46	Total Hexa-Furans				1.1080	9.997	33.50		0.000		NO	0.0000		0.0243	0.02782
47	Total Hepta-Furans				1.1208	9.997	37.30		0.000		NO			0.0000	

#	Name	Pred.RT	RT	n1 Ramp	n2 Ramp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1										

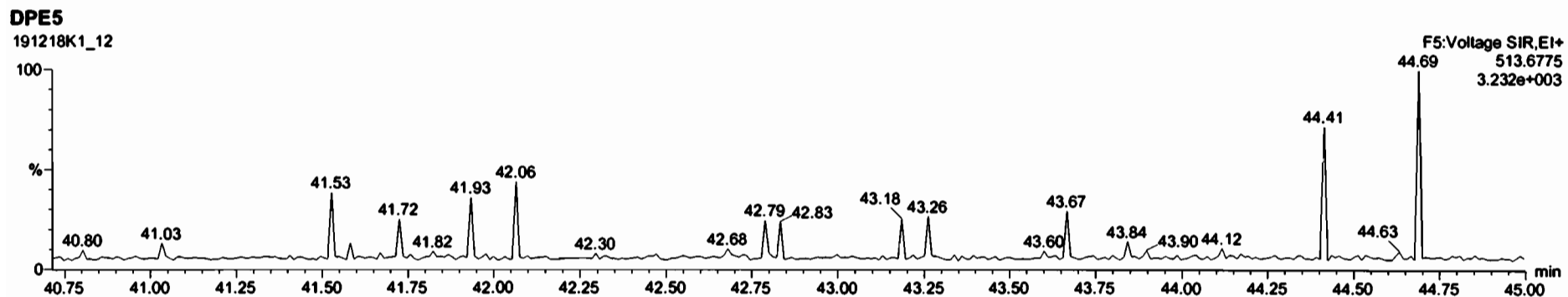
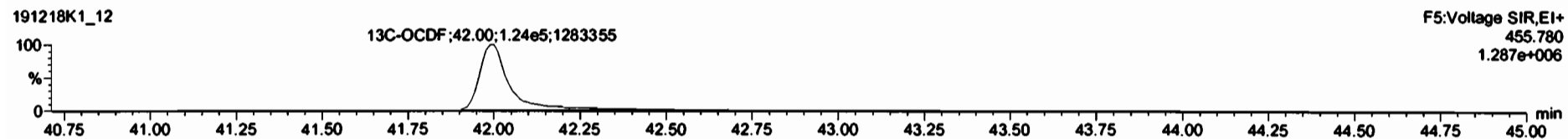
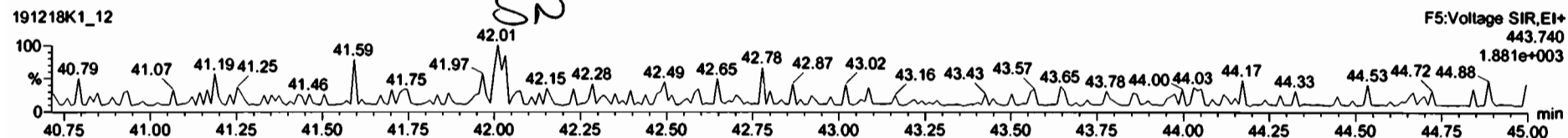
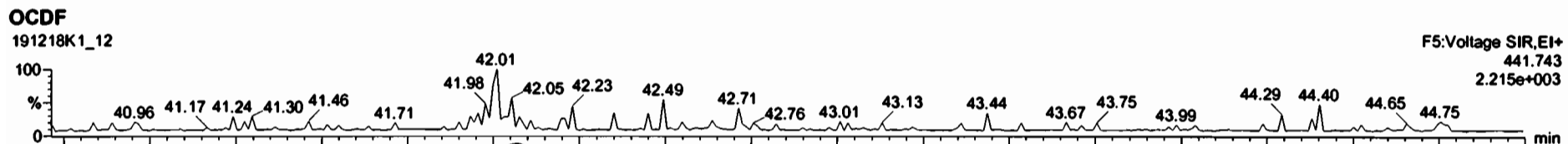


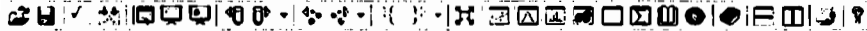
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Last Altered: Thursday, December 19, 2019 07:42:21 Pacific Standard Time

Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

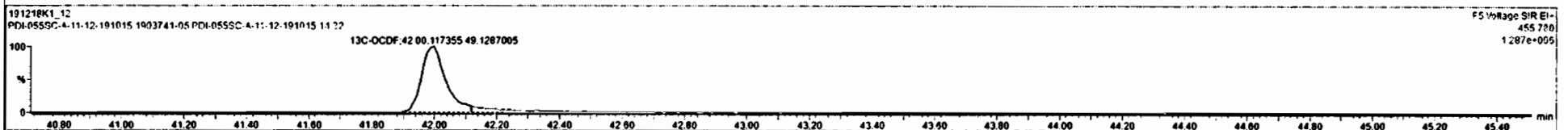
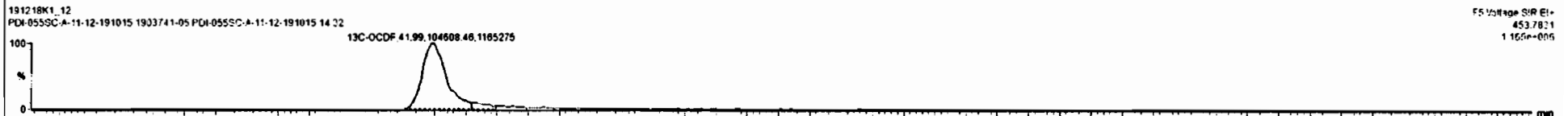
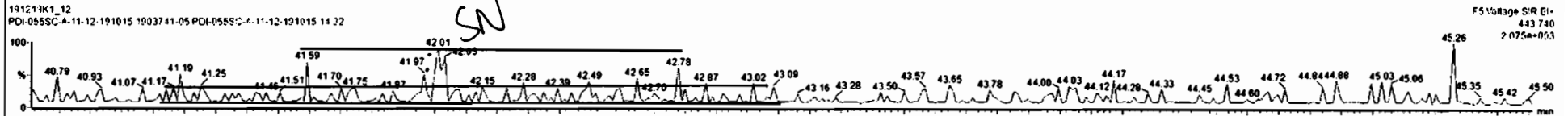
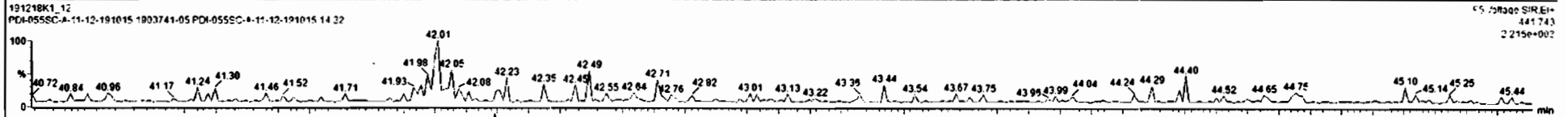
Name: 191218K1\_12, Date: 19-Dec-2019, Time: 02:25:04, ID: 1903741-05 PDI-055SC-A-11-12-191015 14.32, Description: PDI-055SC-A-11-12-191015





#	Name	Resp	RA	aly	RUF	intPred	Pred.RT	RT	Pred.R.	RRT	RRT Fcl	Conc.	%Rec	DL	EMPC
14	1,2,3,7,8,9-HxCDF			YES	1.0728	9.997	35.35		1.000		YES			0.8768	
15	1,2,3,4,6,7,8-HxCDF			YES	1.1700	9.997	37.13		1.001		YES			0.0648	
16	1,2,3,4,7,8,9-HxCDF			YES	1.2609	9.997	39.15		1.000		YES			0.0827	
17	OCDF			YES	1.1655	9.997	41.56		1.000		YES			0.275	
18	13C-2,3,7,8-TCDF	2.44e5	0.79	NO	1.0408	9.997	26.13	26.14	1.027	1.028	NO	173.8	86.9	0.753	
19	13C-1,2,3,7,8-PeCDF	1.71e5	0.82	NO	0.7429	9.997	31.27	31.29	1.230	1.230	NO	172.2	86.1	0.509	
20	13C-1,2,3,4,7,8-HxCDD	1.12e5	1.21	NO	0.8463	9.997	34.64	34.65	1.014	1.014	NO	146.3	73.2	1.06	
21	13C-1,2,3,8,9-HxCDD	1.56e5	1.25	NO	0.7787	9.997	34.73	34.75	1.017	1.017	NO	169.8	84.8	0.879	
22	13C-1,2,3,7,8,9-HxCDD	1.23e5	1.38	NO	0.8595	9.997	35.81	35.02	1.025	1.025	NO	157.8	78.9	1.03	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Rate (Pred)	RA	aly	EMPC	Conc.
1										



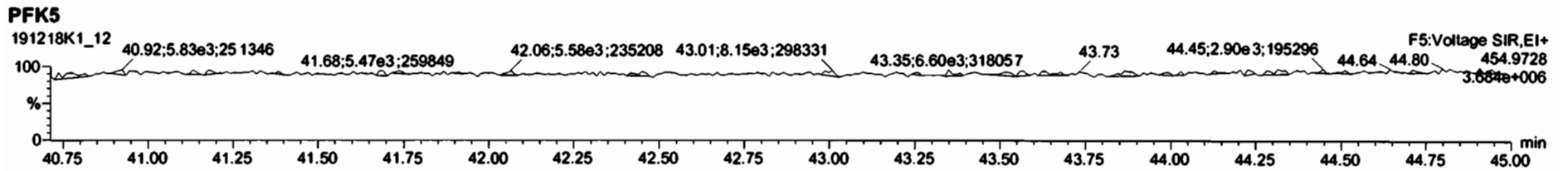
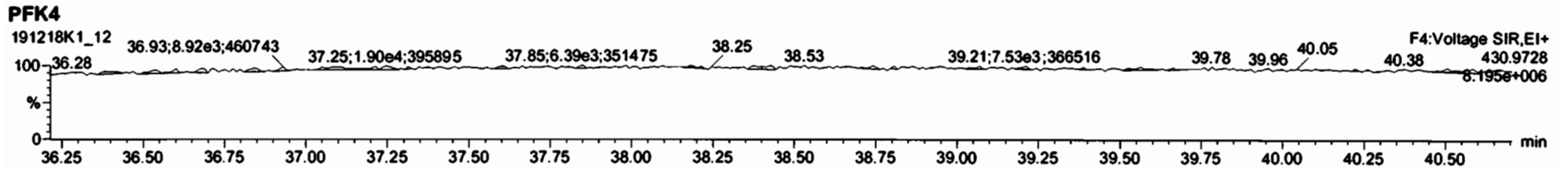
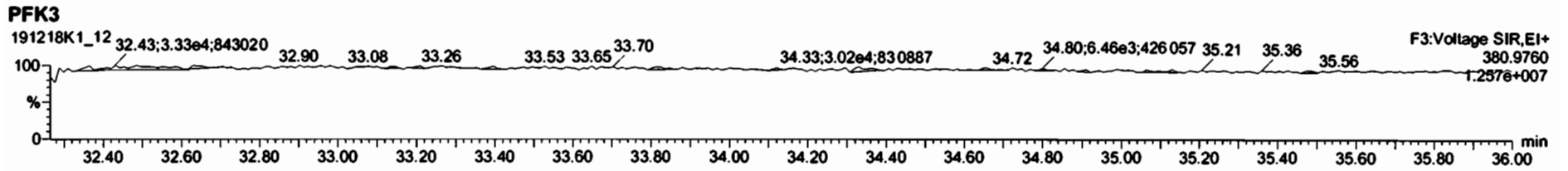
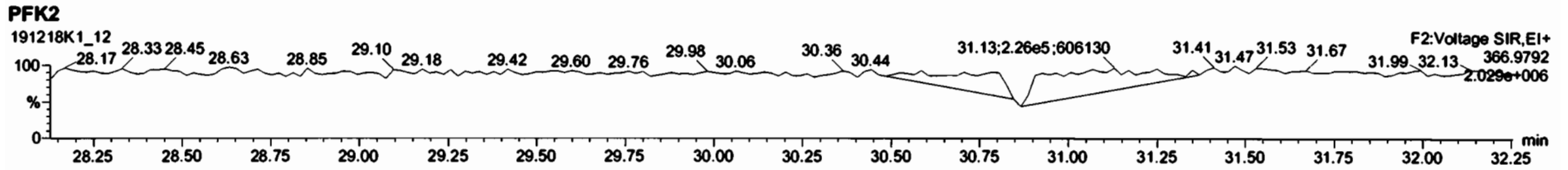
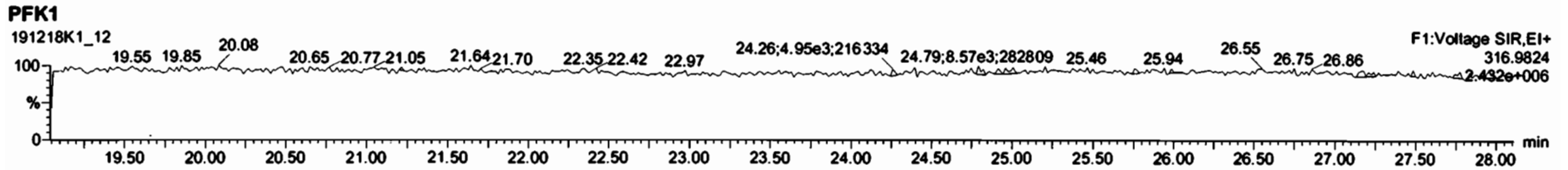


Dataset: Untitled

Last Altered: Thursday, December 19, 2019 07:42:21 Pacific Standard Time

Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

Name: 191218K1\_12, Date: 19-Dec-2019, Time: 02:25:04, ID: 1903741-05 PDI-055SC-A-11-12-191015 14.32, Description: PDI-055SC-A-11-12-191015



Dataset: U:\VG11.PRO\Results\191218K1\191218K1-13.qld

Last Altered: Friday, December 20, 2019 10:18:15 Pacific Standard Time  
Printed: Friday, December 20, 2019 10:21:43 Pacific Standard Time

GRB 12/20/19

CT 12/22/19

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: 191218K1\_13, Date: 19-Dec-2019, Time: 03:12:27, ID: 1903741-06 PDI-055SC-A-12-13.1-191015 13.86, Description: PDI-055SC-A-12-13.1-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			YES	0.9249	10.119	26.17		1.00		YES			0.130	
2	2 1,2,3,7,8-PeCDD			YES	0.905	10.119	31.31		1.00		YES			0.105	
3	3 1,2,3,4,7,8-HxCDD			YES	1.07	10.119	34.66		1.00		YES			0.165	
4	4 1,2,3,6,7,8-HxCDD			YES	0.967	10.119	34.75		1.00		YES			0.151	
5	5 1,2,3,7,8,9-HxCDD			YES	0.978	10.119	35.06		1.00		YES			0.176	
6	6 1,2,3,4,6,7,8-HpCDD	222.005	1.139	NO	1.04	10.119	38.54	38.54	1.00	1.00	NO	0.2259		0.0850	0.2259
7	7 OCDD	1580.937	1.088	YES	0.972	10.119	41.79	41.81	1.00	1.00	NO	2.003		0.423	1.813
8	8 2,3,7,8-TCDF			YES	0.938	10.119	25.18		1.00		YES			0.0663	
9	9 1,2,3,7,8-PeCDF			YES	0.976	10.119	30.00		1.00		YES			0.0415	
10	10 2,3,4,7,8-PeCDF			YES	1.00	10.119	31.00		1.00		YES			0.0397	
11	11 1,2,3,4,7,8-HxCDF			YES	1.24	10.119	33.78		1.00		YES			0.0362	
12	12 1,2,3,6,7,8-HxCDF			YES	1.10	10.119	33.91		1.00		YES			0.0370	
13	13 2,3,4,6,7,8-HxCDF			YES	1.18	10.119	34.51		1.00		YES			0.0404	
14	14 1,2,3,7,8,9-HxCDF	26.831	2.319	YES	1.07	10.119	35.36	35.36	1.00	1.00	NO	0.01602		0.0256	0.01081
15	15 1,2,3,4,6,7,8-HpCDF			YES	1.13	10.119	37.13		1.00		YES			0.0407	
16	16 1,2,3,4,7,8,9-HpCDF			YES	1.26	10.119	39.15		1.00		YES			0.0607	
17	17 OCDF			YES	1.10	10.119	41.99		1.00		YES			0.148	
18	18 13C-2,3,7,8-TCDD	392875.000	0.781	NO	1.05	10.119	26.15	26.14	1.03	1.03	NO	183.9	93.0	0.508	
19	19 13C-1,2,3,7,8-PeCDD	302037.172	0.656	NO	0.743	10.119	31.29	31.29	1.23	1.23	NO	199.6	101	0.831	
20	20 13C-1,2,3,4,7,8-HxCDD	220230.493	1.243	NO	0.646	10.119	34.64	34.65	1.01	1.01	NO	148.8	75.3	1.08	
21	21 13C-1,2,3,6,7,8-HxCDD	314446.453	1.164	NO	0.777	10.119	34.73	34.75	1.02	1.02	NO	176.8	89.4	0.902	
22	22 13C-1,2,3,7,8,9-HxCDD	264654.203	1.096	NO	0.659	10.119	35.01	35.02	1.02	1.03	NO	175.2	88.7	1.06	
23	23 13C-1,2,3,4,6,7,8-HpCDD	187242.180	1.079	NO	0.534	10.119	38.51	38.53	1.13	1.13	NO	153.1	77.4	0.917	
24	24 13C-OCDD	321027.922	0.883	NO	0.470	10.119	41.79	41.79	1.22	1.22	NO	298.0	75.4	1.43	
25	25 13C-2,3,7,8-TCDF	553058.938	0.721	NO	0.977	10.119	25.16	25.16	0.99	0.99	NO	164.5	83.2	0.464	
26	26 13C-1,2,3,7,8-PeCDF	473543.079	1.454	NO	0.778	10.119	29.98	29.98	1.18	1.18	NO	177.0	89.5	1.18	
27	27 13C-2,3,4,7,8-PeCDF	452508.015	1.556	NO	0.750	10.119	30.97	30.97	1.22	1.22	NO	175.4	88.7	1.22	
28	28 13C-1,2,3,4,7,8-HxCDF	330971.672	0.530	NO	0.845	10.119	33.77	33.78	0.99	0.99	NO	171.0	86.5	1.47	
29	29 13C-1,2,3,6,7,8-HxCDF	418298.485	0.558	NO	1.03	10.119	33.89	33.90	0.99	0.99	NO	177.9	90.0	1.21	
30	30 13C-2,3,4,6,7,8-HxCDF	355254.625	0.542	NO	0.893	10.119	34.46	34.47	1.01	1.01	NO	173.8	87.9	1.40	
31	31 13C-1,2,3,7,8,9-HxCDF	308632.454	0.531	NO	0.734	10.119	35.37	35.36	1.04	1.04	NO	183.6	92.9	1.70	

Dataset: U:\VG11.PRO\Results\191218K1\191218K1-13.qld

Last Altered: Friday, December 20, 2019 10:18:15 Pacific Standard Time

Printed: Friday, December 20, 2019 10:21:43 Pacific Standard Time

Name: 191218K1\_13, Date: 19-Dec-2019, Time: 03:12:27, ID: 1903741-06 PDI-055SC-A-12-13.1-191015 13.86, Description: PDI-055SC-A-12-13.1-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	302801.360	0.412	NO	0.754	10.119	37.08	37.09	1.09	1.09	NO	175.3	88.7	0.950	
33	33 13C-1,2,3,4,7,8,9-HpCDF	188028.367	0.449	NO	0.539	10.119	39.11	39.15	1.14	1.15	NO	152.3	77.1	1.33	
34	34 13C-OCDF	435708.562	0.873	NO	0.593	10.119	41.97	41.99	1.23	1.23	NO	321.1	81.2	1.08	
35	35 37Cl-2,3,7,8-TCDD	154697.234			1.07	10.119	26.17	26.17	1.03	1.03	NO	71.02	89.8	0.121	
36	36 13C-1,2,3,4-TCDD	402574.468	0.777	NO	1.00	10.119	25.45	25.45	1.00	1.00	NO	197.7	100	0.533	
37	37 13C-1,2,3,4-TCDF	679988.062	0.748	NO	1.00	10.119	23.55	23.54	1.00	1.00	NO	197.7	100	0.453	
38	38 13C-1,2,3,4,6,9-HxCDF	452628.860	0.568	NO	1.00	10.119	34.16	34.16	1.00	1.00	NO	197.7	100	1.25	
39	39 Total Tetra-Dioxins				0.925	10.119	24.62		0.00		NO			0.0877	
40	40 Total Penta-Dioxins				0.905	10.119	29.96		0.00		NO			0.0394	
41	41 Total Hexa-Dioxins				0.967	10.119	33.63		0.00		NO	0.2634		0.107	0.2634
42	42 Total Hepta-Dioxins				1.04	10.119	38.80		0.00		NO	0.6991		0.0850	0.6991
43	43 Total Tetra-Furans				0.938	10.119	23.61		0.00		NO			0.0295	
44	44 1st Func. Penta-Furans				0.976	10.119	27.04		0.00		NO			0.0130	
45	45 Total Penta-Furans				0.976	10.119	29.27		0.00		NO	0.0000		0.0207	0.01301
46	46 Total Hexa-Furans				1.18	10.119	33.56		0.00		NO	0.0000		0.0255	0.01081
47	47 Total Hepta-Furans				1.13	10.119	37.83		0.00		NO	0.01713		0.0294	0.01713

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191218K1\191218K1-13.qld

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Printed: Friday, December 20, 2019 10:21:54 Pacific Standard Time

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Name: 191218K1\_13, Date: 19-Dec-2019, Time: 03:12:27, ID: 1903741-06 PDI-055SC-A-12-13.1-191015 13.86, Description: PDI-055SC-A-12-13.1-191015

**Tetra-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

**Penta-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

**Hexa-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	3.43e2	0.00e0	1.239	NO	33.63	33.19	0.2634	0.2634

**Hepta-Dioxins**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	2.22e2	1.87e5	1.139	NO	38.54	38.54	0.2259	0.2259
2	42 Total Hepta-Dioxins	4.65e2	1.87e5	1.142	NO	38.80	37.49	0.4732	0.4732

**Tetra-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

**Penta-Furans function 1**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

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Name: 191218K1\_13, Date: 19-Dec-2019, Time: 03:12:27, ID: 1903741-06 PDI-055SC-A-12-13.1-191015 13.86, Description: PDI-055SC-A-12-13.1-191015

**Penta-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	0.00e0	0.00e0	0.938	YES	29.27	29.68	0.0000	0.01301

**Hexa-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	2.68e1	3.09e5	2.319	YES	35.36	35.36	0.0000	0.01081

**Hepta-Furans**

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	47 Total Hepta-Furans	2.40e1	0.00e0	1.140	NO	37.83	37.71	0.01713	0.01713

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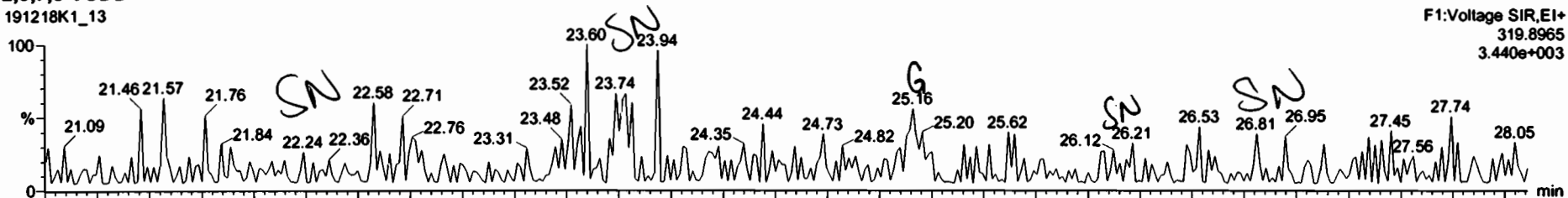
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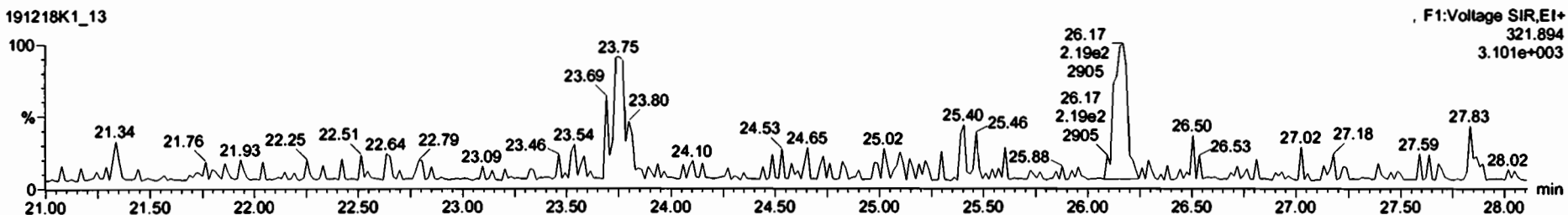
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**2,3,7,8-TCDD**

191218K1\_13

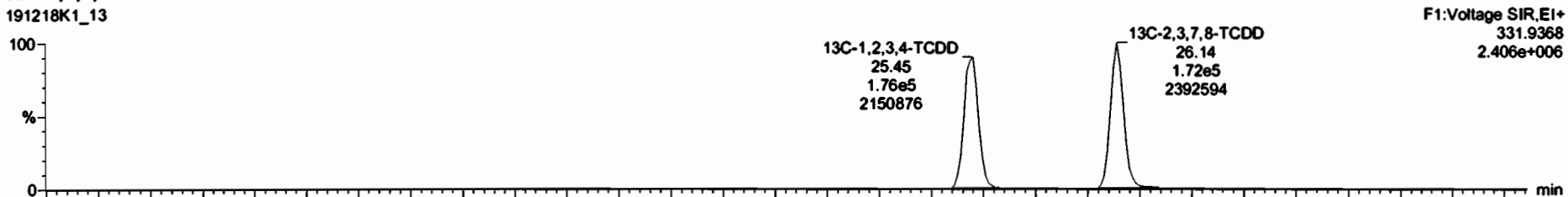


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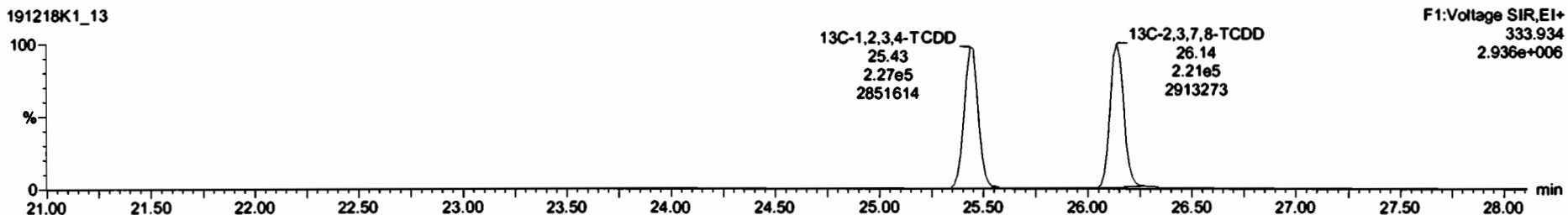


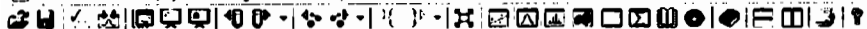
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191218K1\_13



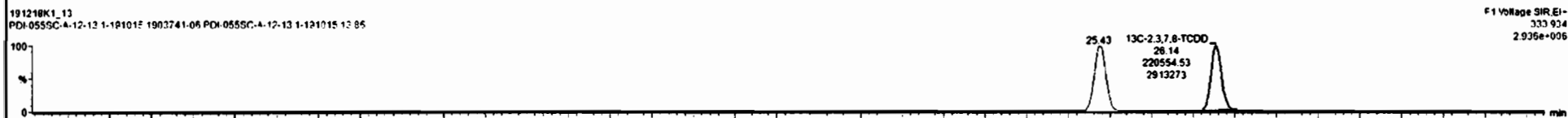
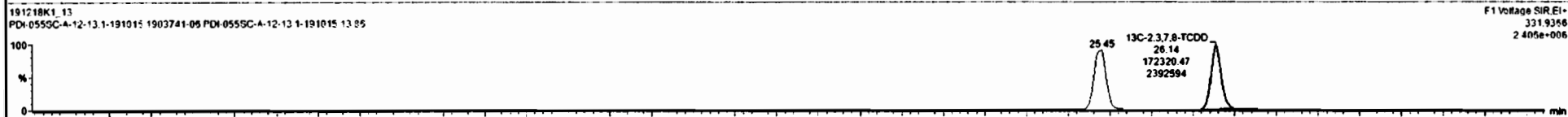
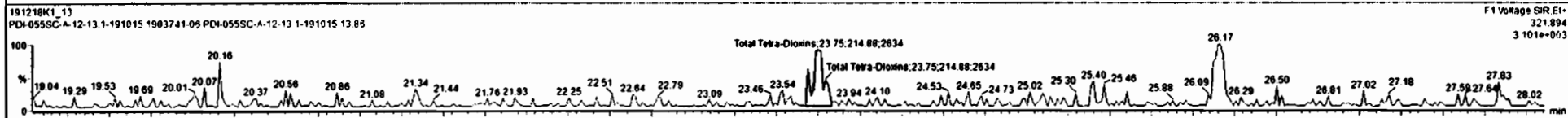
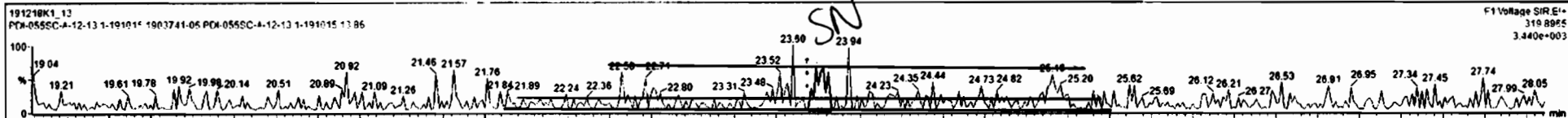
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#	Name	Resp	RA	n/y	SNP	withd	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.0000	24.42	24.42		0.000	NO	NO	0.0000		0.0077	0.0000
40	Total Penta-Dioxins				0.0040	10.119	23.95		0.000	NO	NO			0.0384	
41	Total Hexa-Dioxins				0.0075	10.119	33.63		0.000	NO	NO			0.107	
42	Total Hepta-Dioxins				1.0375	10.119	38.00		0.000	NO	NO			0.0650	
43	Total Tetra-Furans				0.9376	10.119	23.61		0.000	NO	NO			0.0295	
44	1st Func. Penta-Furans				0.9762	10.119	27.04		0.000	NO	NO			0.0130	
45	Total Penta-Furans				0.9762	10.119	29.27		0.000	NO	NO			0.0267	
46	Total Hexa-Furans				1.1808	10.119	33.56		0.000	NO	NO			0.0255	
47	Total Hepta-Furans				1.1300	10.119	37.83		0.000	NO	NO			0.0294	

#	Name	Pred.RT	RT	Int Resp	Ext Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.42	23.74	1.906e2	2.149e2	0.770	0.92	YES	0.20668	0.00000



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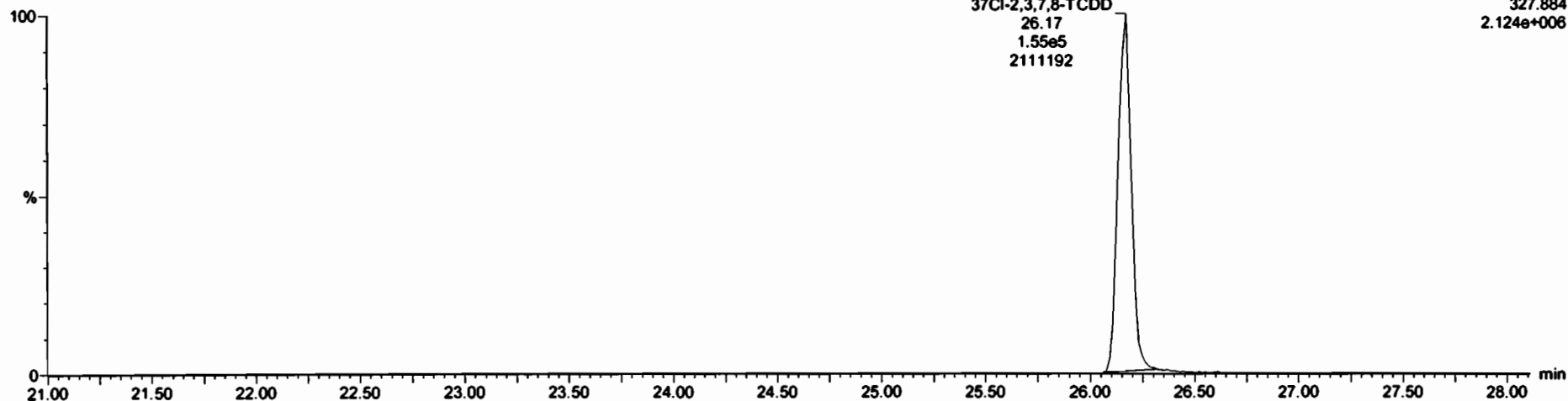
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Name: 191218K1\_13, Date: 19-Dec-2019, Time: 03:12:27, ID: 1903741-06 PDI-055SC-A-12-13.1-191015 13.86, Description: PDI-055SC-A-12-13.1-191015

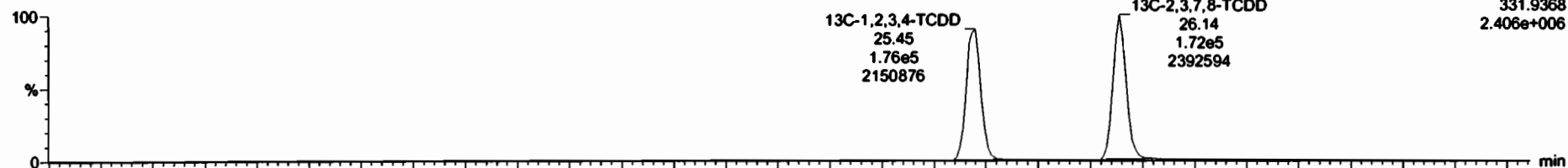
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191218K1\_13

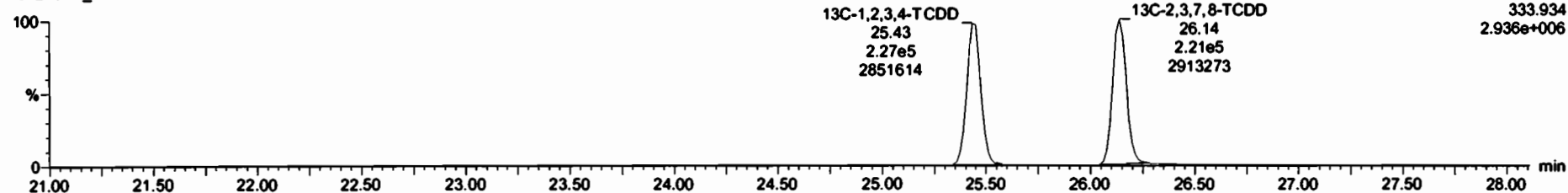


**13C-1,2,3,4-TCDD**

191218K1\_13



191218K1\_13





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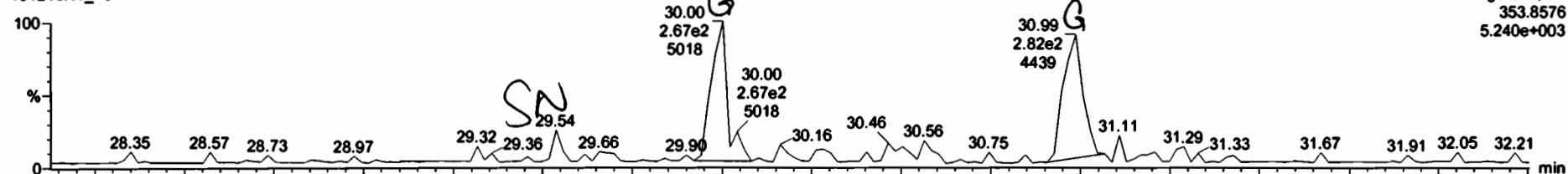
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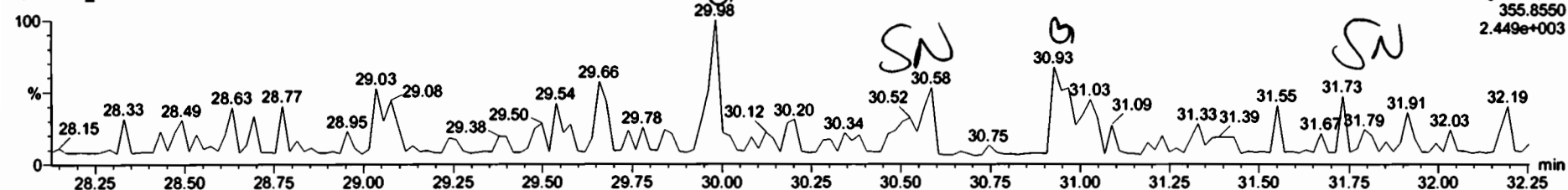
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1,2,3,7,8-PeCDD

191218K1\_13

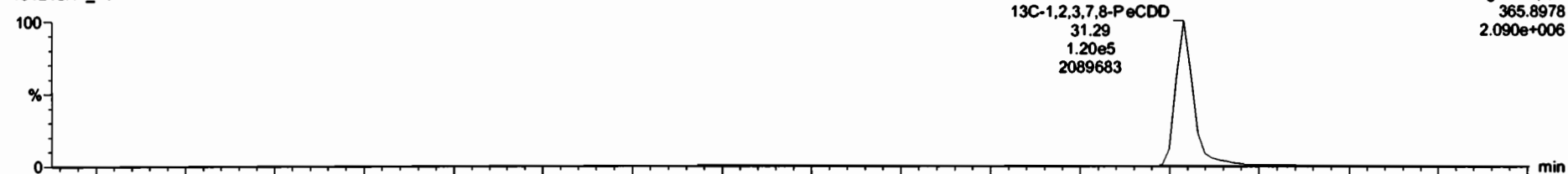


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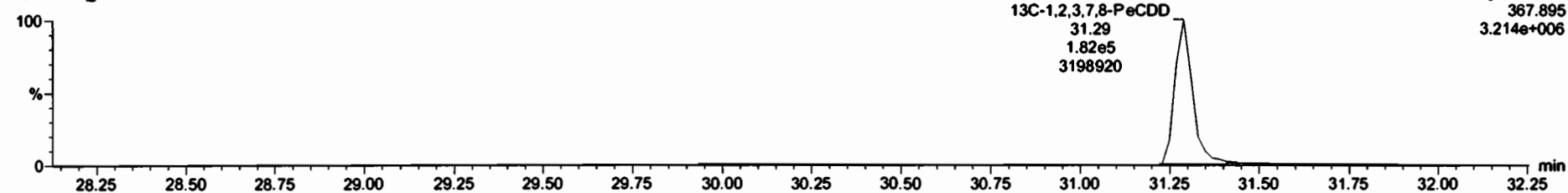


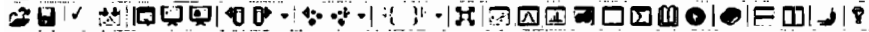
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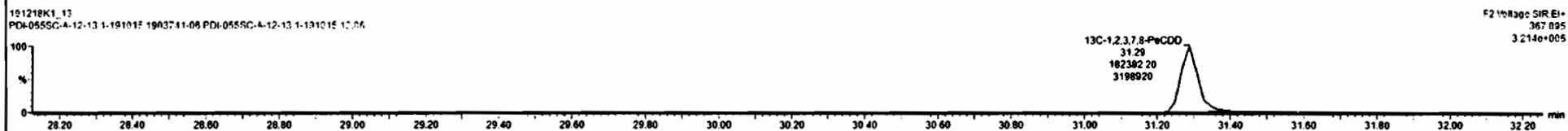
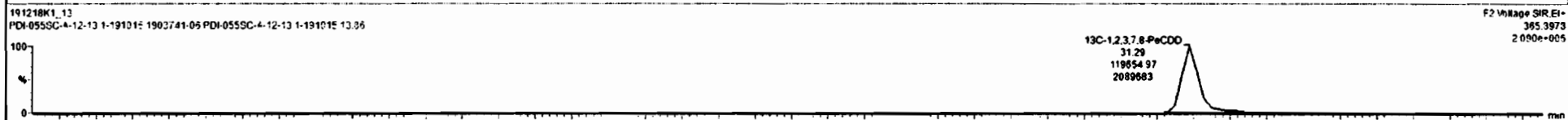
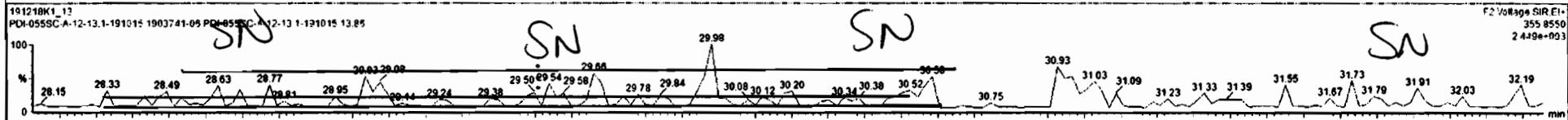
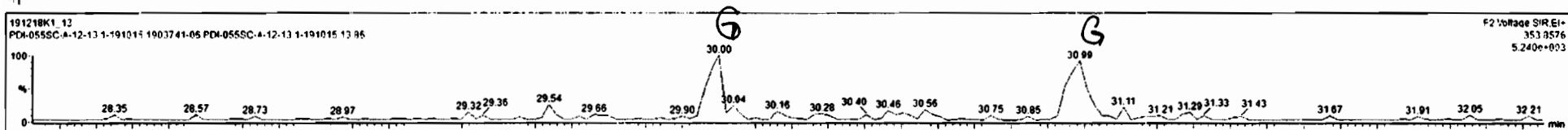
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#	Name	Resp	RA	n/y	RRF	wtVal	Pred RT	RT	Pred.R.	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	10.119	24.62		0.000		NO	0.0000		0.0877	0.2069
40	Total Penta-Dioxins				0.9045	10.119	29.76		0.000		NO			0.0294	
41	Total Hexa-Dioxins				0.9675	10.119	33.83		0.000		NO			0.107	
42	Total Hepta-Dioxins				1.0375	10.119	38.80		0.000		NO			0.0650	
43	Total Tetra-Furans				0.9376	10.119	23.61		0.000		NO			0.0295	
44	1st Func. Penta-Furans				0.9782	10.119	27.04		0.000		NO			0.0130	
45	Total Penta-Furans				0.9782	10.119	29.27		0.000		NO			0.0207	
46	Total Hexa-Furans				1.1886	10.119	33.58		0.000		NO			0.0255	
47	Total Hepta-Furans				1.1300	10.119	37.83		0.000		NO			0.0294	

#	Name	Pred RT	RT	wt Resp	w2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1										



Ready

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191218K1\_13 NUM

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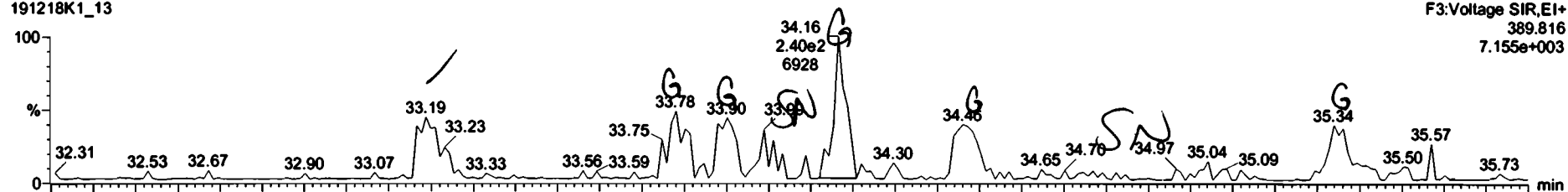
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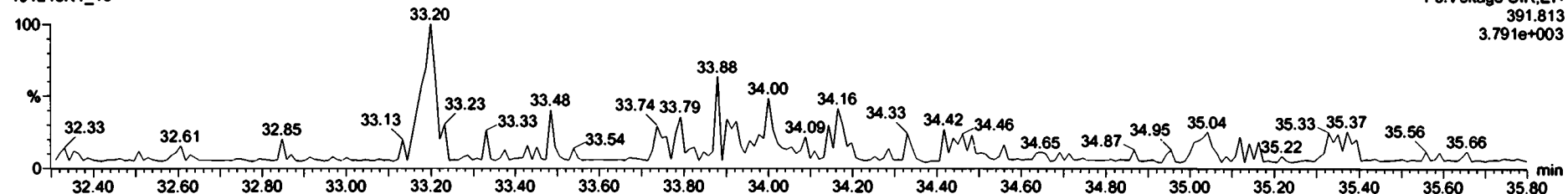
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### 1,2,3,4,7,8-HxCDD

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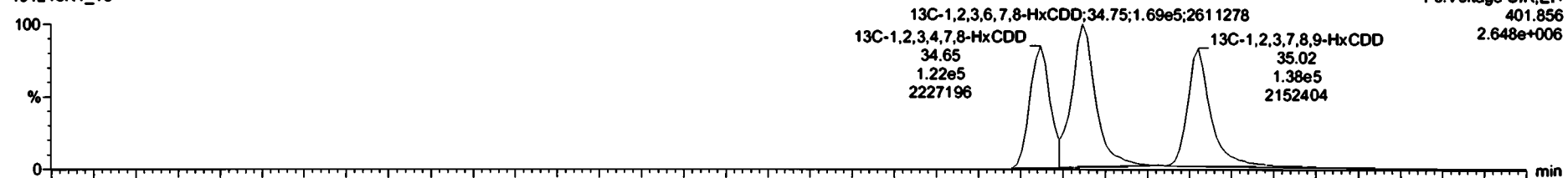


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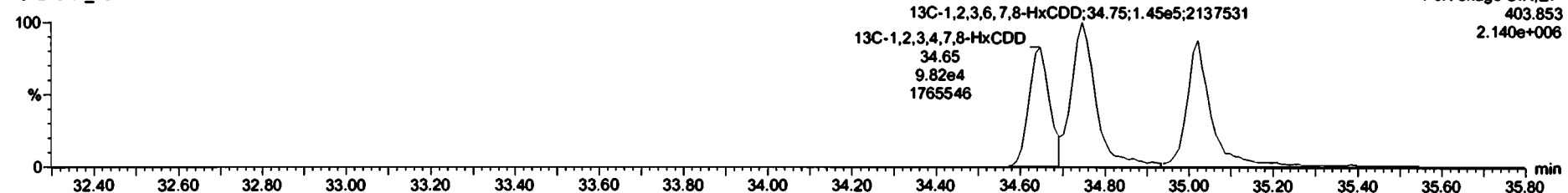


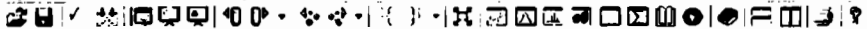
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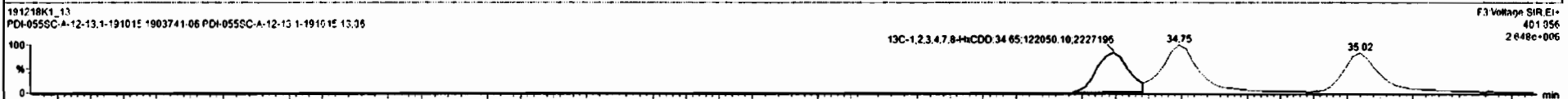
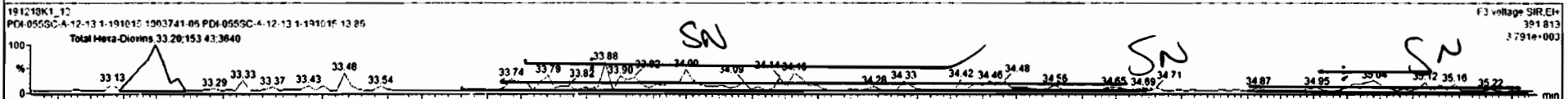
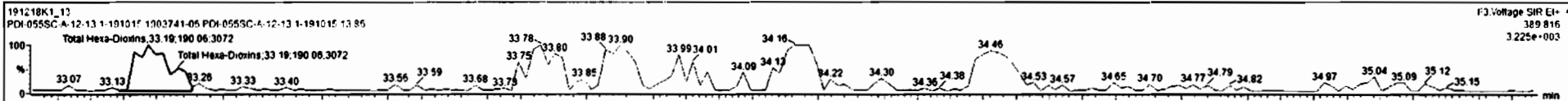
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#	#	Name	Resp	BA	aly	RFI	urlDet	Pred.RT	RT	Pred.R.	RTT	RET Fail	Conc.	%Rec	DL	EMPC
39	39	Total Tetra-Dioxins				0.9249	10.119	24.62		0.000		NO	0.0000		0.0077	0.2069
40	40	Total Penta-Dioxins				0.9046	10.119	29.90		0.000		NO			0.0394	
41	41	Total Hexa-Dioxins				0.8995	10.119	35.65		0.000		NO	0.2634		0.167	0.2654
42	42	Total Hepta-Dioxins				1.0375	10.119	38.80		0.000		NO			0.0850	
43	43	Total Tetra-Furans				0.9376	10.119	23.61		0.000		NO			0.0295	
44	44	1st Func. Penta-Furans				0.9762	10.119	27.04		0.000		NO			0.0130	
45	45	Total Penta-Furans				0.9762	10.119	29.77		0.000		NO			0.0207	
46	46	Total Hexa-Furans				1.1805	10.119	33.56		0.000		NO			0.0255	
47	47	Total Hepta-Furans				1.1300	10.119	37.63		0.000		NO			0.0294	

#	#	Name	Pred.RT	RT	ret Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	BA	aly	EMPC	Conc.
1	41	Total Hexa-Dioxins	33.63	33.19	1.901e2	1.534e2	1.240	1.24	NO	0.26338	0.26338



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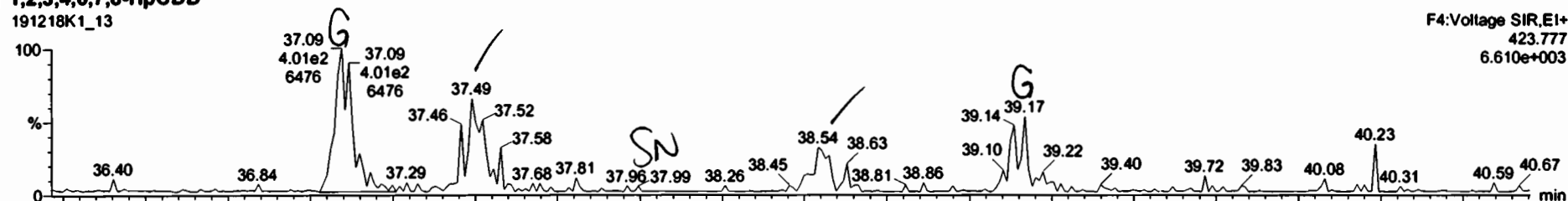
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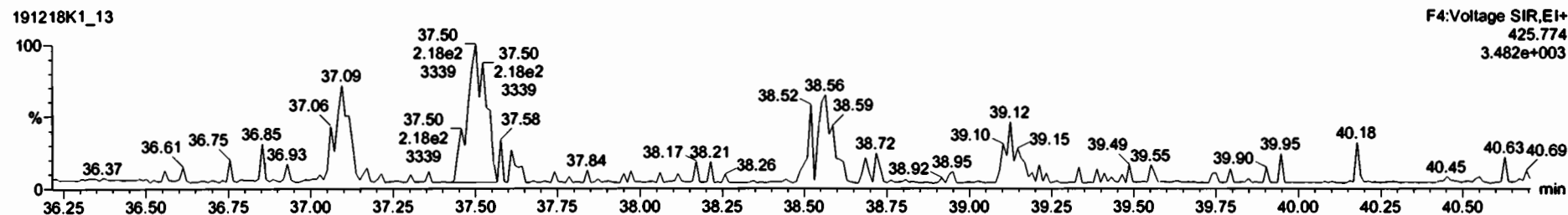
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1,2,3,4,6,7,8-HpCDD

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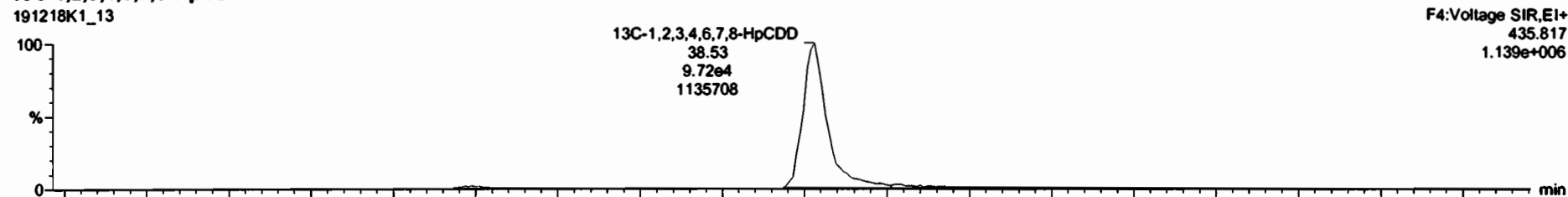


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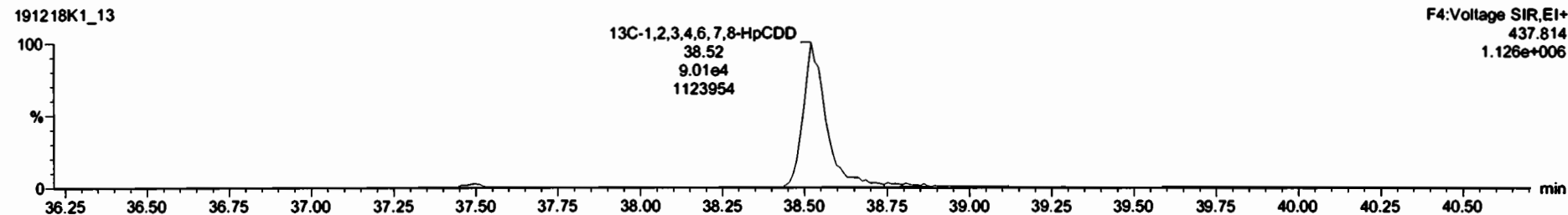


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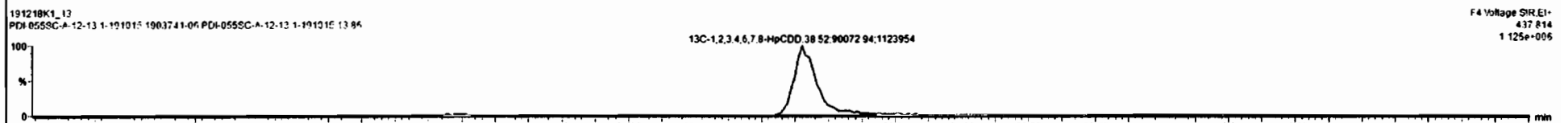
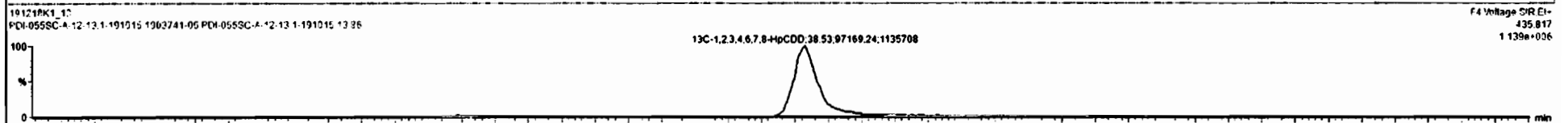
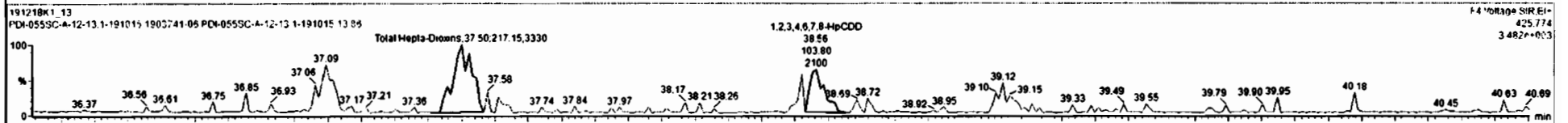
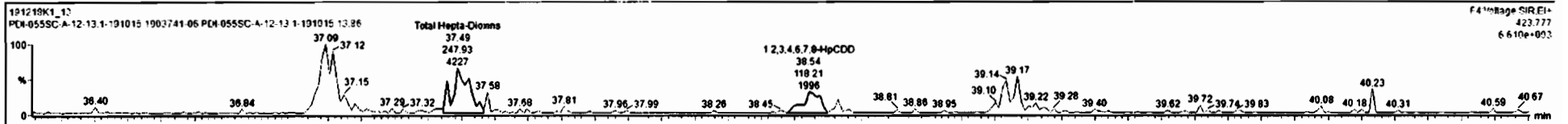
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#	#	Name	Resp	RA	aly	RRF	wt/wt	Prod.RT	RT	Prod.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	39	Total Tetra-Dioxins				0.9249	10.119	24.62		0.000		NO	0.0000		0.0077	0.2069
40	40	Total Penta-Dioxins				0.9046	10.119	29.99		0.000		NO			0.0394	
41	41	Total Hexa-Dioxins				0.9675	10.119	33.63		0.000		NO	0.2634		0.107	0.2634
42	42	Total Hepta-Dioxins				1.0076	10.119	38.88		0.000		NO	0.8880		0.8880	0.8880
43	43	Total Tetra-Furans				0.9376	10.119	23.61		0.000		NO			0.0295	
44	44	1st Func. Penta-Furans				0.9782	10.119	27.04		0.000		NO			0.0130	
45	45	Total Penta-Furans				0.9782	10.119	29.27		0.000		NO			0.0207	
46	46	Total Hexa-Furans				1.1880	10.119	33.58		0.000		NO			0.0255	
47	47	Total Hepta-Furans				1.1380	10.119	37.83		0.000		NO			0.0294	

#	#	Name	Prod.RT	RT	nt Resp	m2 Resp	1 <sup>st</sup> Rate (Prod)	RA	aly	EMPC	Conc.
1	42	Total Hepta-Dioxins	38.80	37.49	2.479e2	2.172e2	1.040	1.14	NO	0.47320	0.47320
2	6	1,2,3,4,6,7,8-HpCDD	38.54	38.54	1.182e2	1.038e2	1.040	1.14	NO	0.22588	0.22588

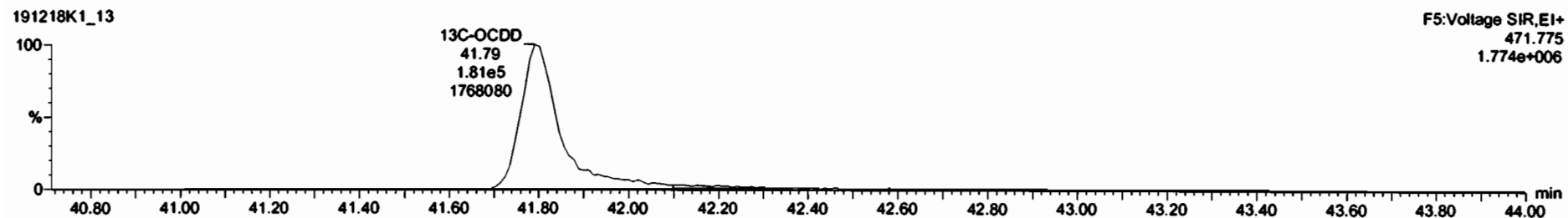
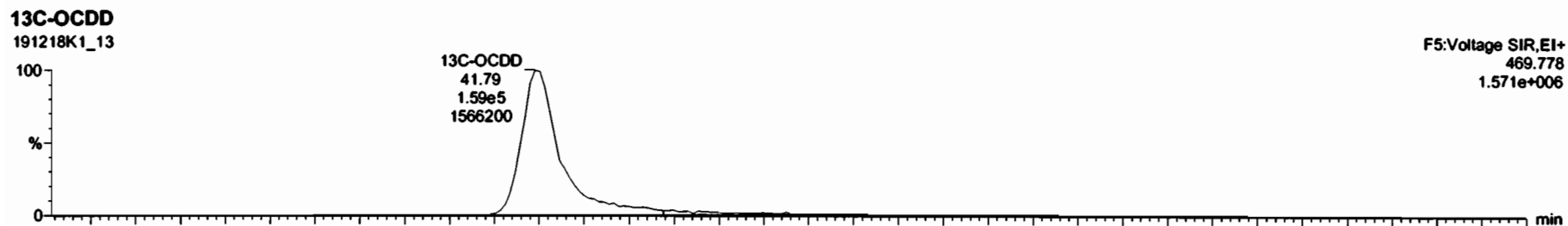
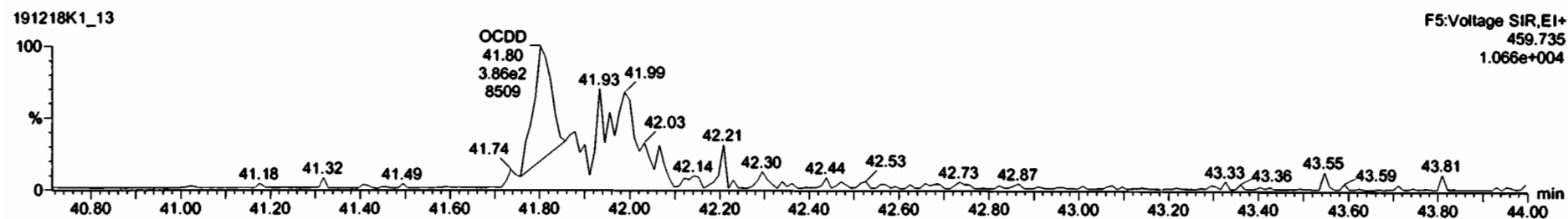
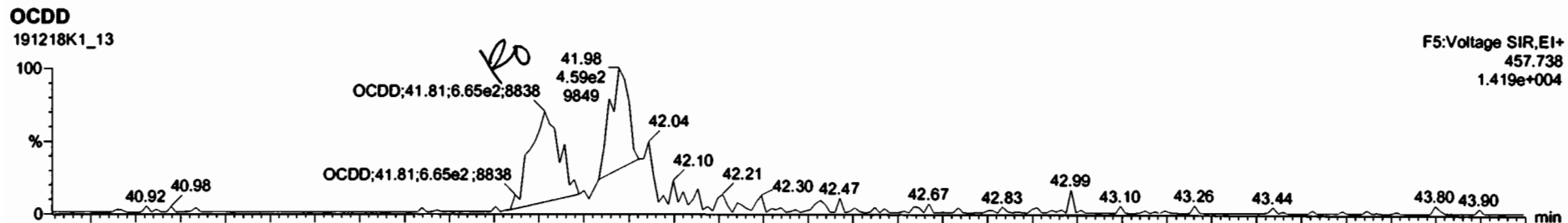


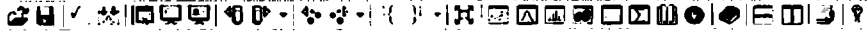
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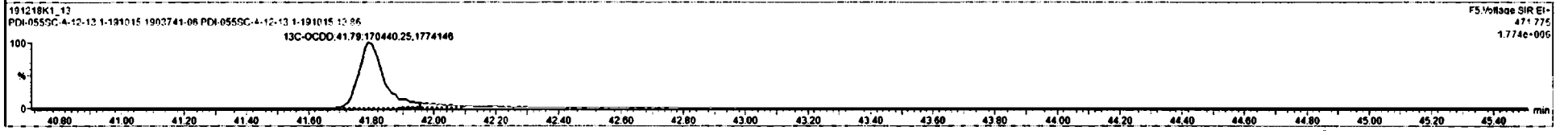
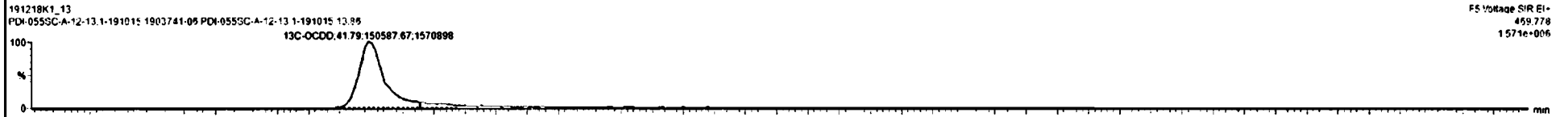
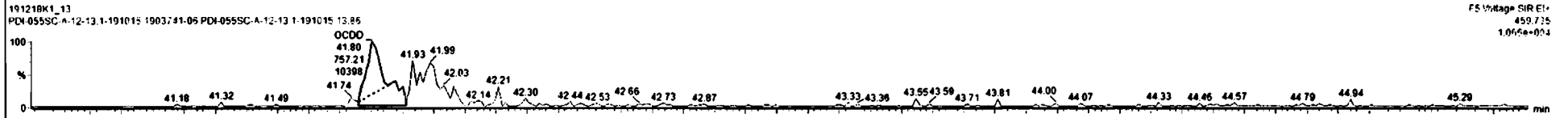
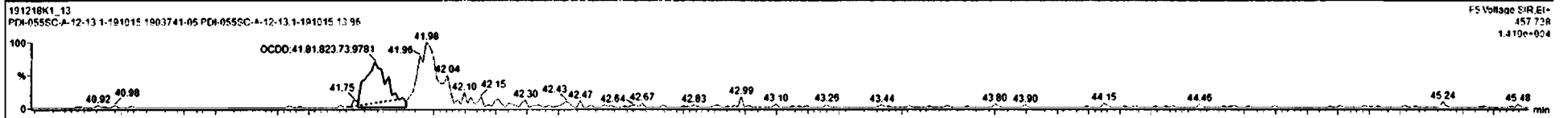
Name: 191218K1\_13, Date: 19-Dec-2019, Time: 03:12:27, ID: 1903741-06 PDI-055SC-A-12-13.1-191015 13.86, Description: PDI-055SC-A-12-13.1-191015





#	Name	Resp	RA	aly	RP	wVal	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	1,2,3,7,8-TCDD			YES	0.9249	10.119	28.17		1.001	YES				0.130	
2	1,2,3,7,8-PeCDD			YES	0.9046	10.119	31.31		1.001	YES				0.105	
3	1,2,3,4,7,8-HxCDD			YES	1.0691	10.119	34.06		1.000	YES				0.165	
4	1,2,3,6,7,8-HxCDD			YES	0.9675	10.119	34.75		1.000	YES				0.151	
5	1,2,3,7,8,9-HxCDD			YES	0.9778	10.119	35.06		1.001	YES				0.176	
6	1,2,3,4,6,7,8-HpCDD			YES	1.0375	10.119	36.54		1.000	YES				0.145	
7	OCDD	1.8805	1.88	YES	0.8976	10.119	41.79	41.81	1.000	1.001	NO	2.003		0.423	1.813
8	2,3,7,8-TCDF			YES	0.8370	10.119	25.18		1.001	YES				0.883	
9	1,2,3,7,8-PeCDF			YES	0.9762	10.119	30.00		1.001	YES				0.0415	

#	Name	Pred RT	RT	wt Resp	nt Resp	1 <sup>st</sup> Rate (Pred)	RA	aly	EMPC	Conc.
1										





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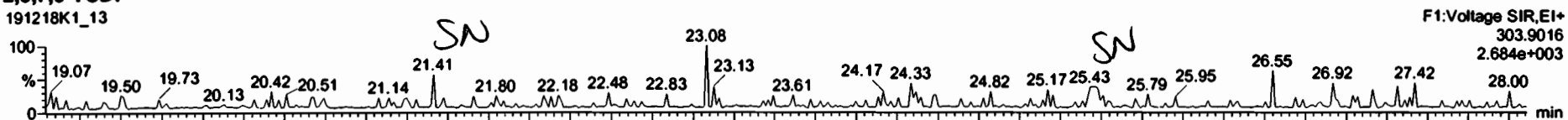
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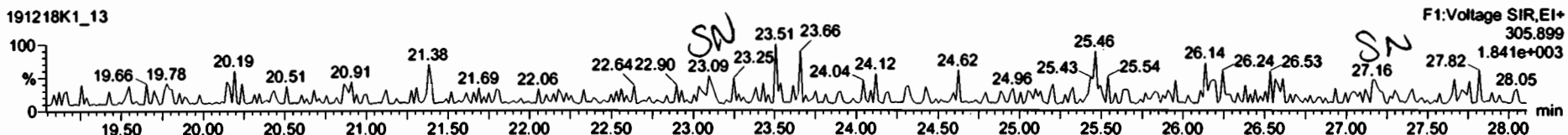
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**2,3,7,8-TCDF**

191218K1\_13

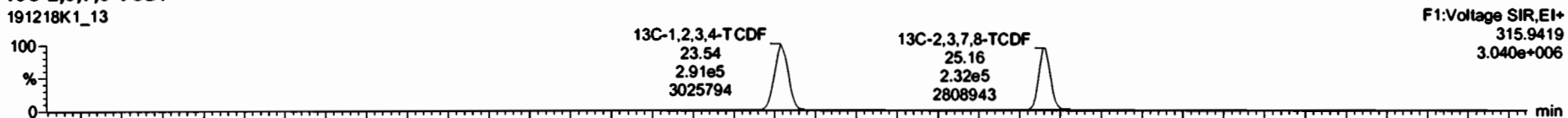


191218K1\_13

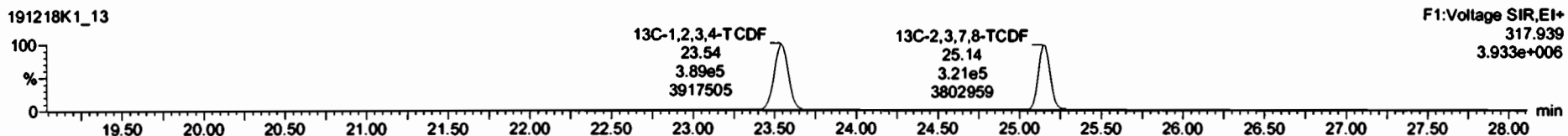


**13C-2,3,7,8-TCDF**

191218K1\_13

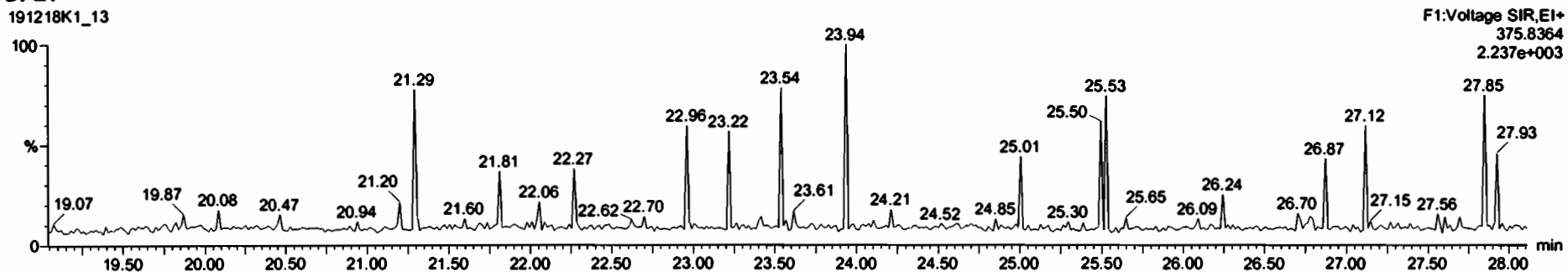


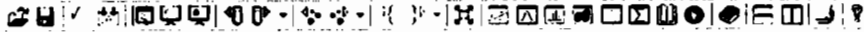
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**DPE1**

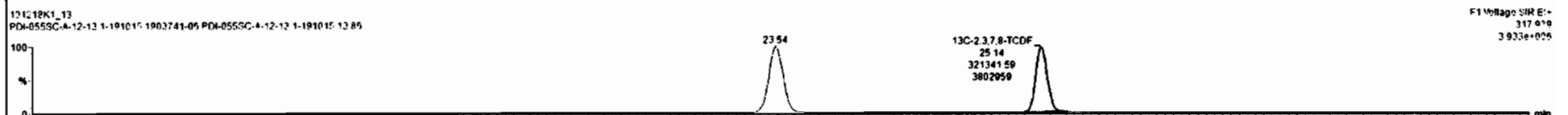
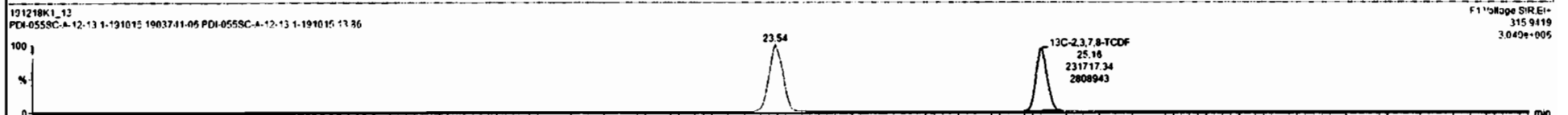
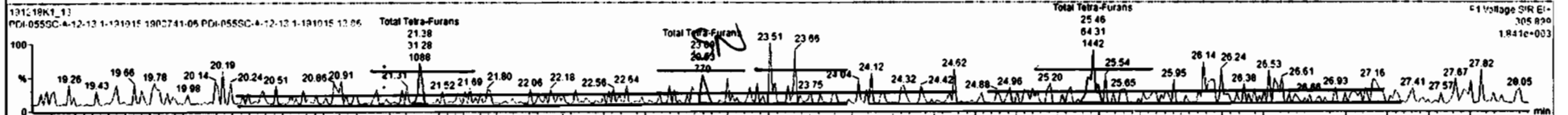
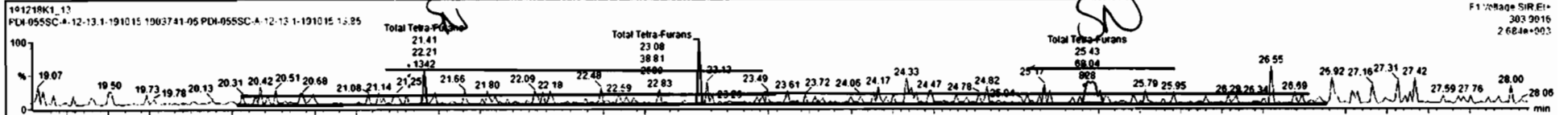
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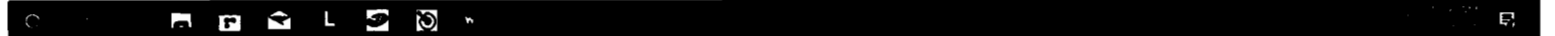
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39	Total Tetra-Dioxins				0.9249	10.119	24.62		0.000		NO	0.0000		0.0077	0.2069
40	Total Penta-Dioxins				0.9046	10.119	29.90		0.000		NO			0.0394	
41	Total Hexa-Dioxins				0.9675	10.119	33.83		0.000		NO	0.2634		0.107	0.2634
42	Total Hepta-Dioxins				1.0375	10.119	38.90		0.000		NO	0.6991		0.0850	0.6991
43	Total Tetra-Furans				0.8278	10.119	23.61		0.000		NO	0.6030		0.0050	0.6030
44	1st Func. Penta-Furans				0.9762	10.119	27.64		0.000		NO			0.0130	
45	Total Penta-Furans				0.9762	10.119	29.27		0.000		NO			0.0207	
46	Total Hexa-Furans				1.1800	10.119	33.56		0.000		NO			0.0255	
47	Total Hepta-Furans				1.1300	10.119	37.83		0.000		NO			0.0294	

#	Name	Pred.RT	RT	rel Resp	rel Resp	1 <sup>st</sup> Ratio (Prod)	RA	aly	EMPC	Conc.
1	Total Tetra-Furans	23.61	21.41	2.221e1	3.128e1	0.770	0.71	NO	0.020390	0.020390
2	Total Tetra-Furans	23.61	23.08	3.881e1	2.953e1	0.770	1.31	YES	0.019921	0.00000
3	Total Tetra-Furans	23.61	25.43	5.804e1	6.431e1	0.770	1.05	YES	0.043386	0.00000



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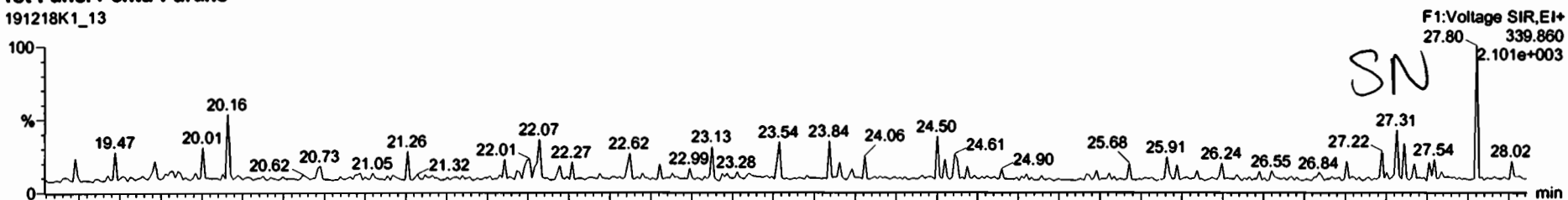
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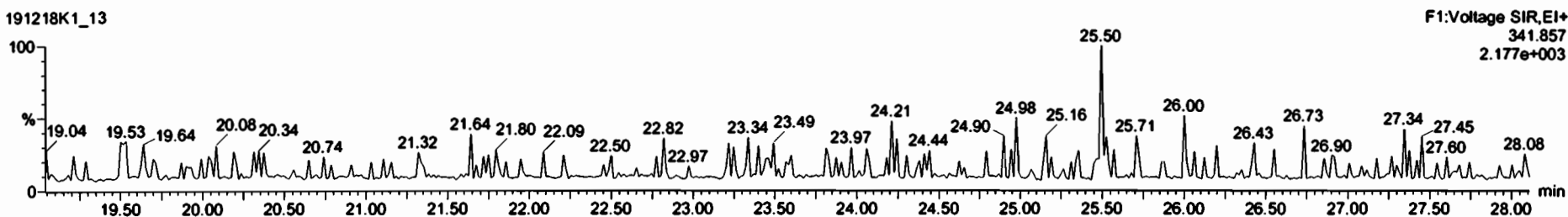
Name: 191218K1\_13, Date: 19-Dec-2019, Time: 03:12:27, ID: 1903741-06 PDI-055SC-A-12-13.1-191015 13.86, Description: PDI-055SC-A-12-13.1-191015

1st Func. Penta-Furans

191218K1\_13

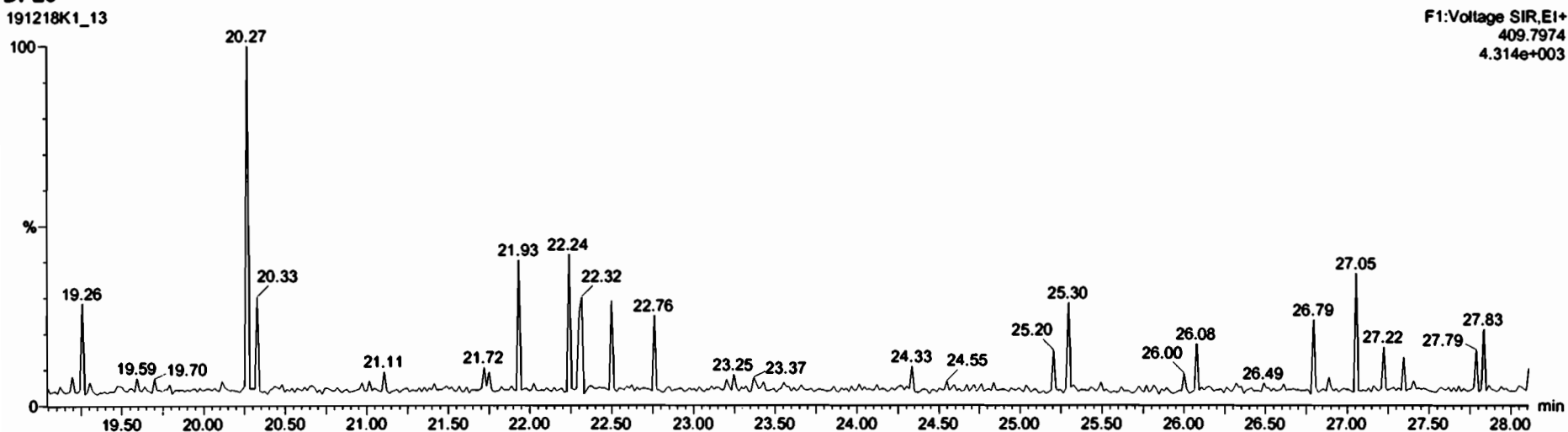


191218K1\_13



DPE6

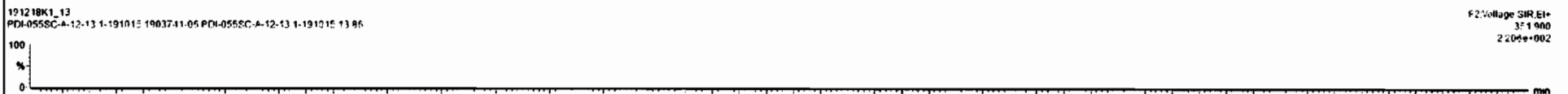
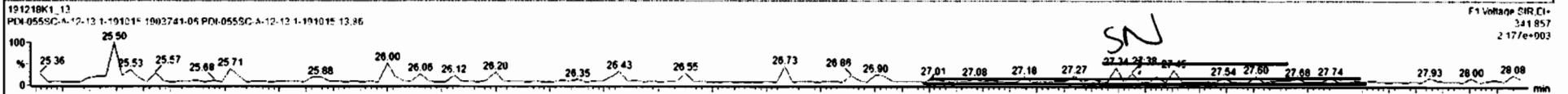
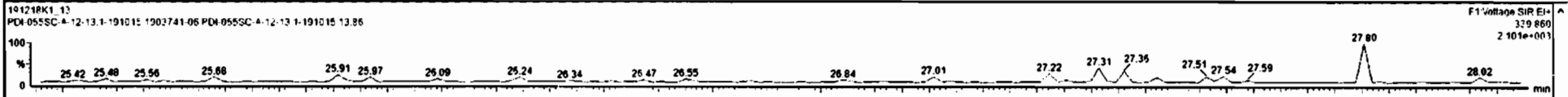
191218K1\_13





#	Name	Resp	RA	ny	RRP	wt/wt	Prod.RT	RT	Prod.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	10.119	24.42		0.000		NO	0.0000		0.0077	0.2059
40	Total Penta-Dioxins				0.9045	10.119	29.95		0.000		NO			0.0394	
41	Total Hexa-Dioxins				0.9875	10.119	33.83		0.000		NO	0.2634		0.107	0.2634
42	Total Hepta-Dioxins				1.0375	10.119	38.80		0.000		NO	0.0991		0.0059	0.0991
43	Total Tetra-Furans				0.9376	10.119	23.61		0.000		NO	0.02030		0.0295	0.08370
44	Total Penta-Furans				0.9762	10.119	27.94		0.000		NO			0.0120	
45	Total Hexa-Furans				0.9762	10.119	29.27		0.000		NO			0.0207	
46	Total Hexa-Furans				1.1800	10.119	33.56		0.000		NO			0.0255	
47	Total Hepta-Furans				1.1300	10.119	37.83		0.000		NO			0.0294	

#	Name	Prod.RT	RT	wt Resp	mg Resp	1° Ratio (Prod)	RA	ny	EMPC	Conc.
1										



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191218K1\_13

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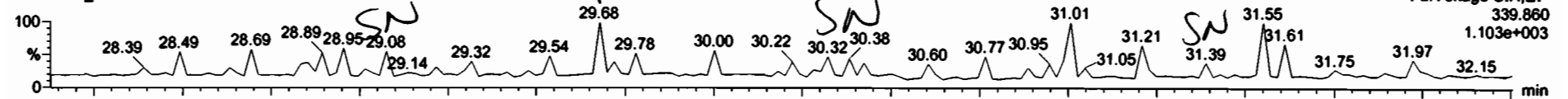
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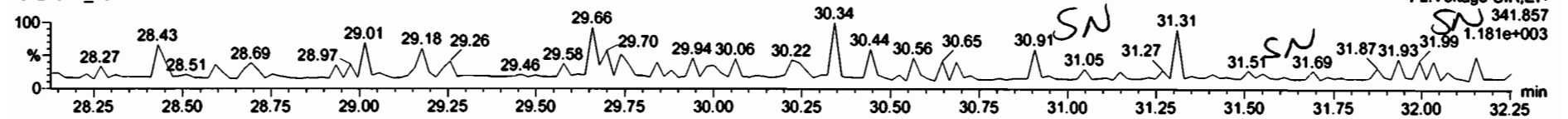
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1,2,3,7,8-PeCDF

191218K1\_13

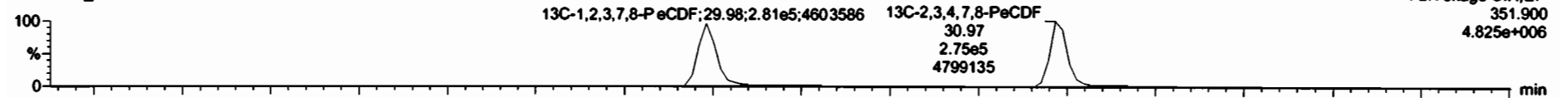


191218K1\_13

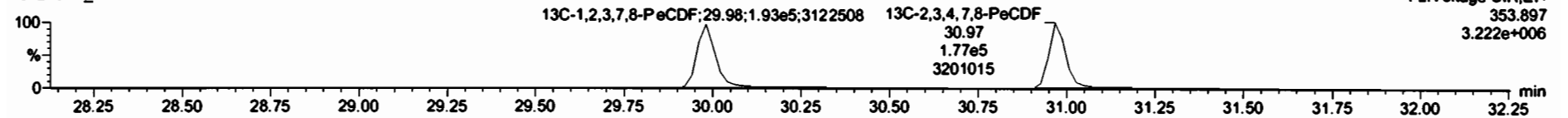


13C-1,2,3,7,8-PeCDF

191218K1\_13

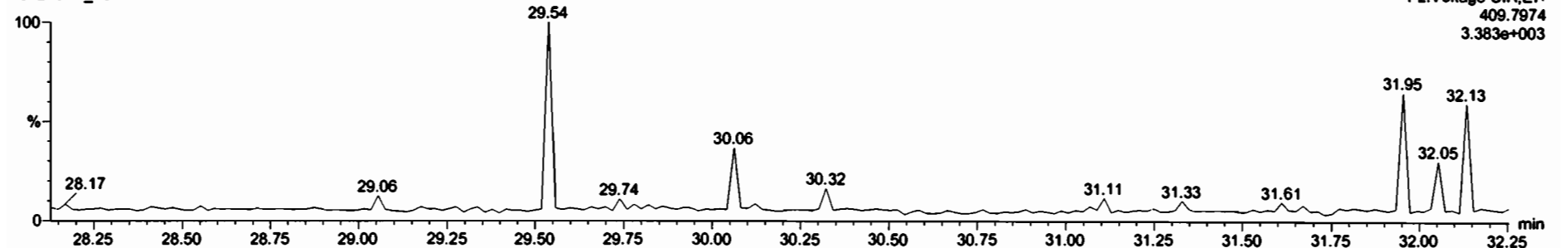


191218K1\_13



DPE2

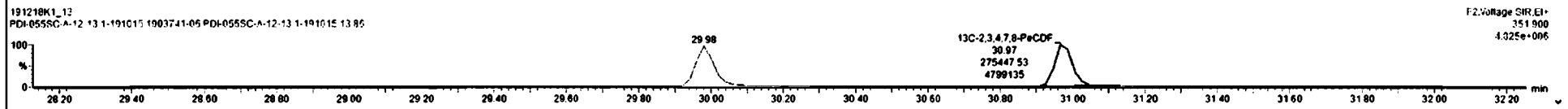
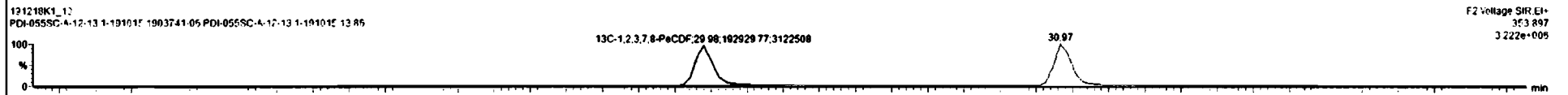
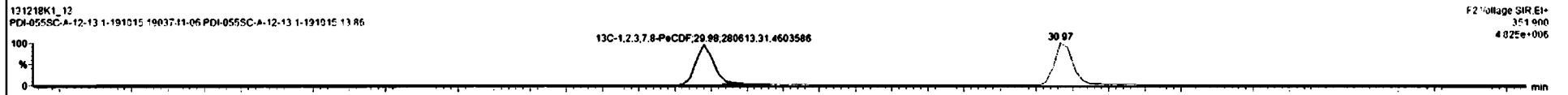
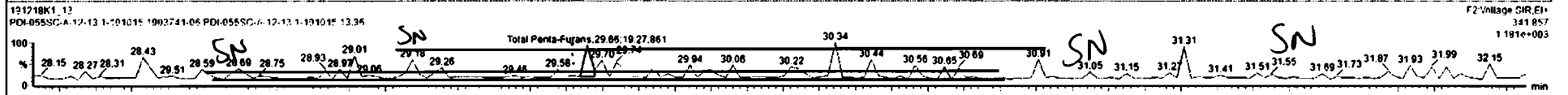
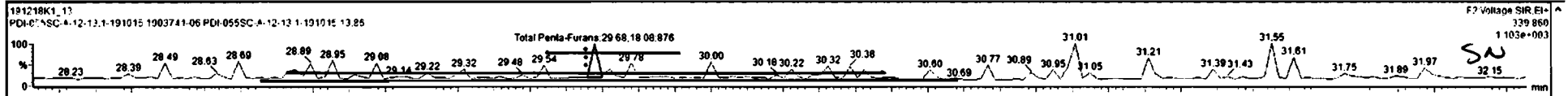
191218K1\_13





#	Name	Resp	RA	aly	RFI	w/val	Prod.RT	RT	Prod.R.	RTT	RTT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	10.119	24.62		0.000		NO	0.0000		0.0077	0.2069
40	Total Penta-Dioxins				0.9046	10.119	29.96		0.000		NO			0.0394	
41	Total Hexa-Dioxins				0.9875	10.119	33.43		0.000		NO	0.2834		0.107	0.2834
42	Total Hepta-Dioxins				1.0375	10.119	38.80		0.000		NO	0.6991		0.0059	0.6991
43	Total Tetra-Furans				0.9376	10.119	23.81		0.000		NO	0.0209		0.0295	0.06370
44	1st Func. Penta-Furans				0.9762	10.119	27.04		0.000		NO			0.0130	
45	Total Penta-Furans				0.9762	10.119	29.27		0.000		NO	0.0000		0.0207	0.01301
46	Total Hexa-Furans				1.1886	10.119	33.56		0.000		NO			0.0255	
47	Total Hepta-Furans				1.1360	10.119	37.83		0.000		NO			0.0294	

#	Name	Prod.RT	RT	wt Resp	wt Resp	1 <sup>st</sup> Ratio (Prod)	RA	aly	EMPC	Conc.
1	Total Penta-Furans	29.27	29.68	1.806e1	1.927e1	1.550	0.94	YES	0.013008	0.00000



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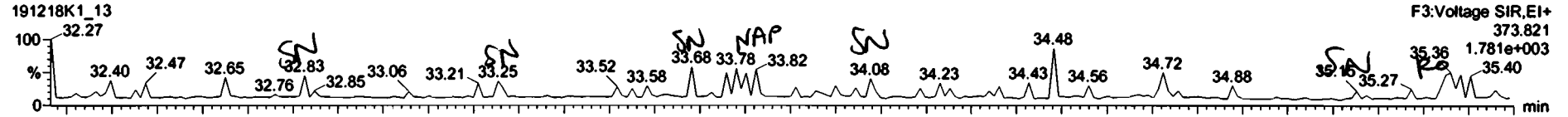


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Name: 191218K1\_13, Date: 19-Dec-2019, Time: 03:12:27, ID: 1903741-06 PDI-055SC-A-12-13.1-191015 13.86, Description: PDI-055SC-A-12-13.1-191015

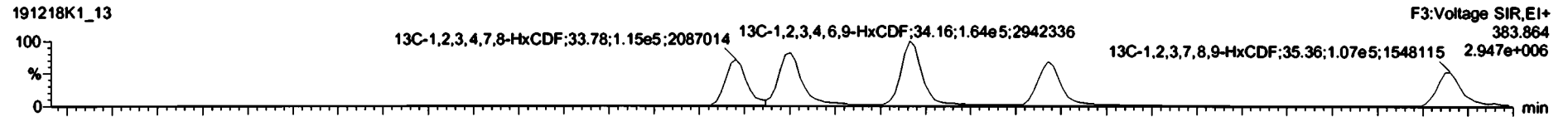
1,2,3,4,7,8-HxCDF



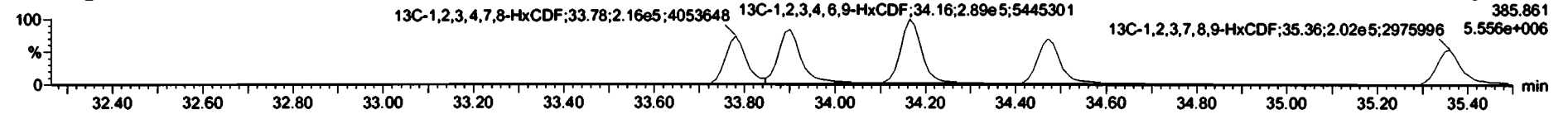
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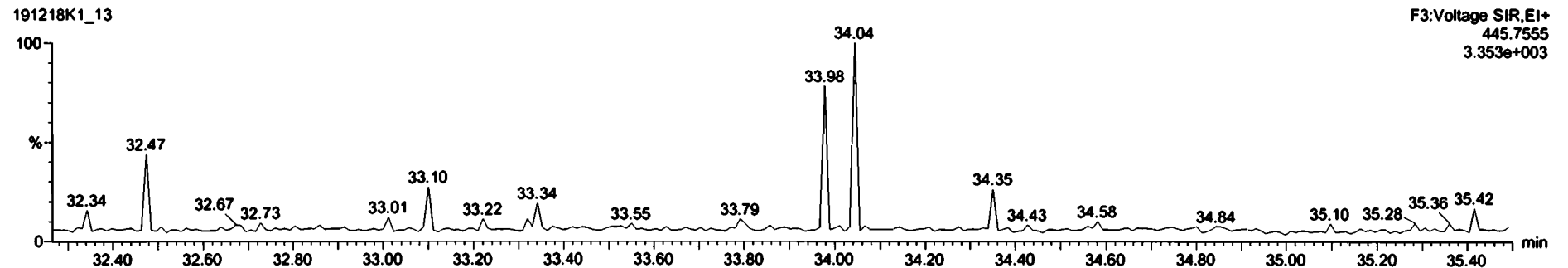
13C-1,2,3,4,7,8-HxCDF



191218K1\_13



DPE3







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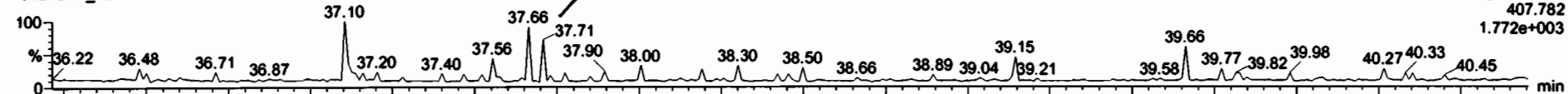
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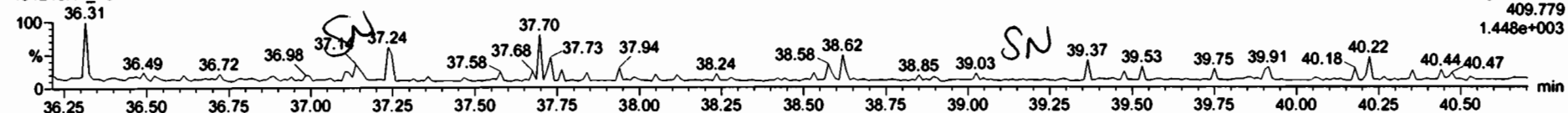
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1,2,3,4,6,7,8-HpCDF

191218K1\_13



191218K1\_13

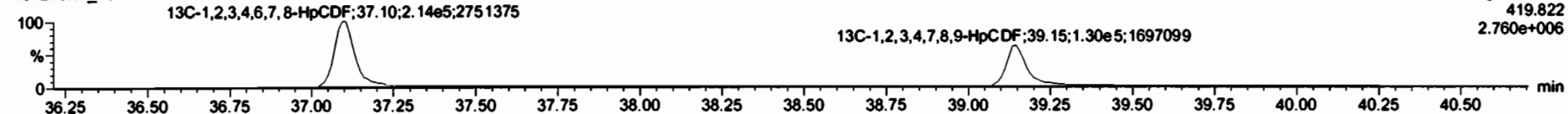


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191218K1\_13

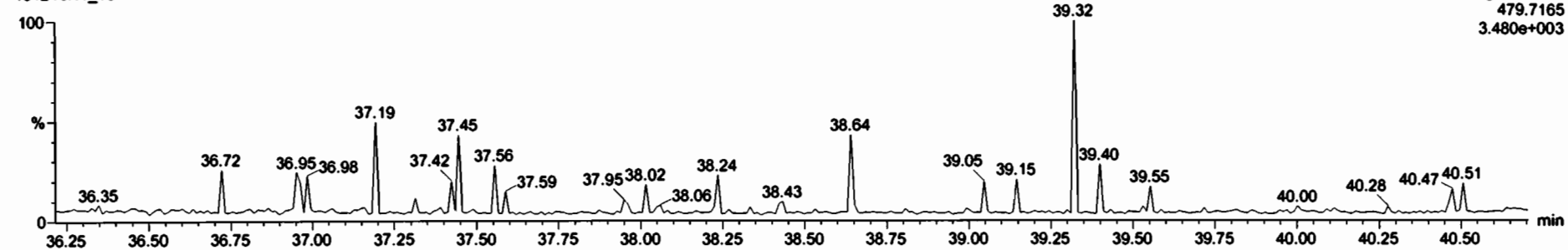


191218K1\_13



DPE4

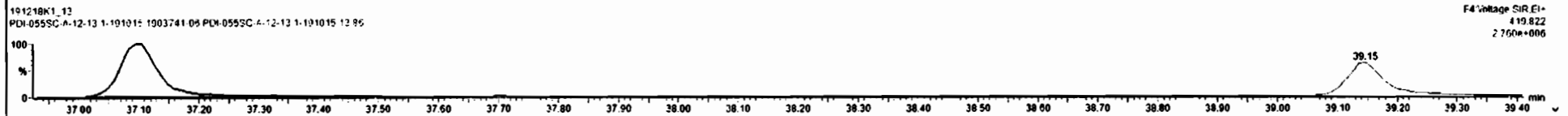
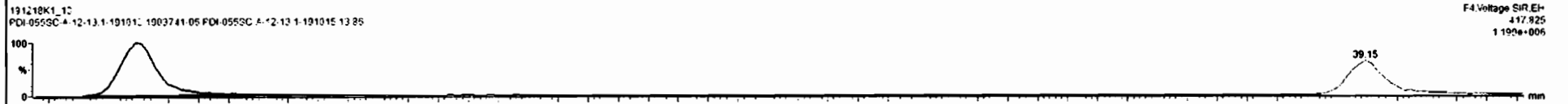
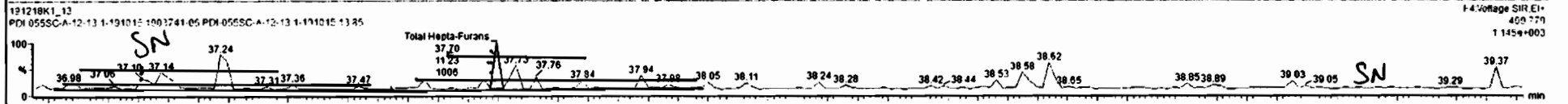
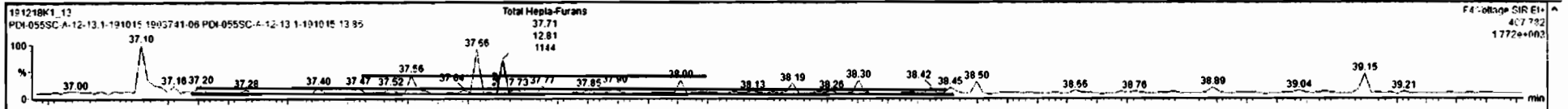
191218K1\_13





#	Name	Resp	RA	ely	RFP	wVol	Pred RT	RT	Pred.R.	RRT	RRT Pst	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9249	10.119	24.62		0.000		NO	0.0000		0.0677	0.2069
40	Total Penta-Dioxins				0.9046	10.119	29.95		0.000		NO			0.0394	
41	Total Hexa-Dioxins				0.9875	10.119	33.63		0.000		NO	0.2674		0.107	0.2634
42	Total Hepta-Dioxins				1.0375	10.119	38.00		0.000		NO	0.6991		0.6850	0.6991
43	Total Tetra-Furans				0.9376	10.119	23.61		0.000		NO	0.02039		0.0295	0.06370
44	1st Func. Penta-Furans				0.9762	10.119	27.64		0.000		NO			0.0130	
45	Total Penta-Furans				0.9762	10.119	29.77		0.000		NO	0.0000		0.0207	0.01301
46	Total Hexa-Furans				1.1806	10.119	33.56		0.000		NO	0.0000		0.0255	0.02352
47	Total Hepta-Furans				1.1500	10.119	37.85		0.000		NO	0.01713		0.0204	0.01713

#	Name	Pred RT	RT	rel Resp	rel Resp	1 <sup>st</sup> Ratio (Pred)	RA	ely	EMPC	Conc.
1	47 Total Hepta-Furans	37.83	37.71	1.261e1	1.123e1	1.040	1.14	NO	0.017134	0.017134



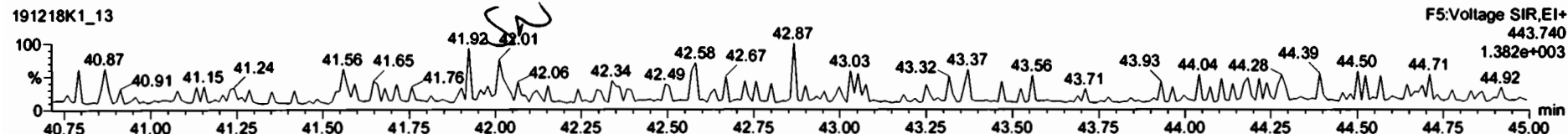
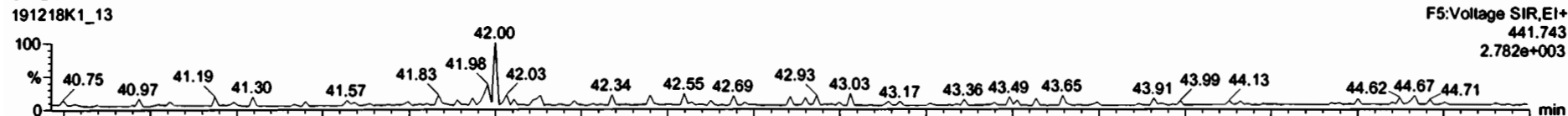
Dataset: Untitled

Last Altered: Thursday, December 19, 2019 07:42:21 Pacific Standard Time

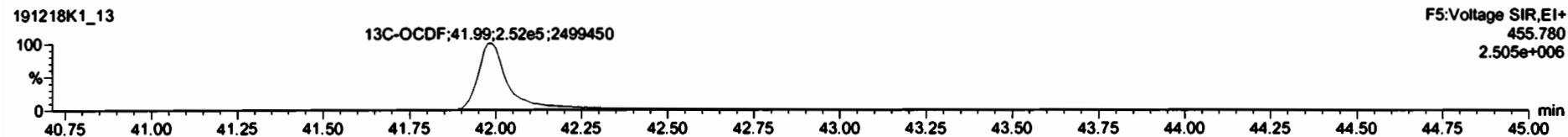
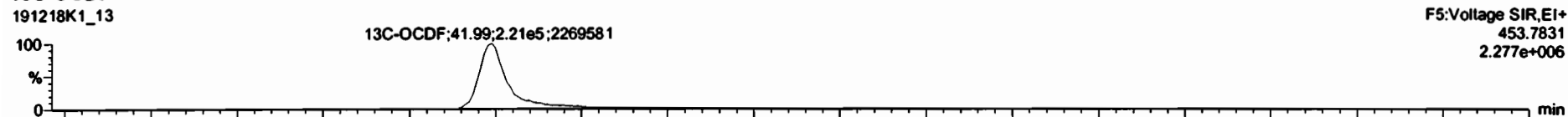
Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

Name: 191218K1\_13, Date: 19-Dec-2019, Time: 03:12:27, ID: 1903741-06 PDI-055SC-A-12-13.1-191015 13.86, Description: PDI-055SC-A-12-13.1-191015

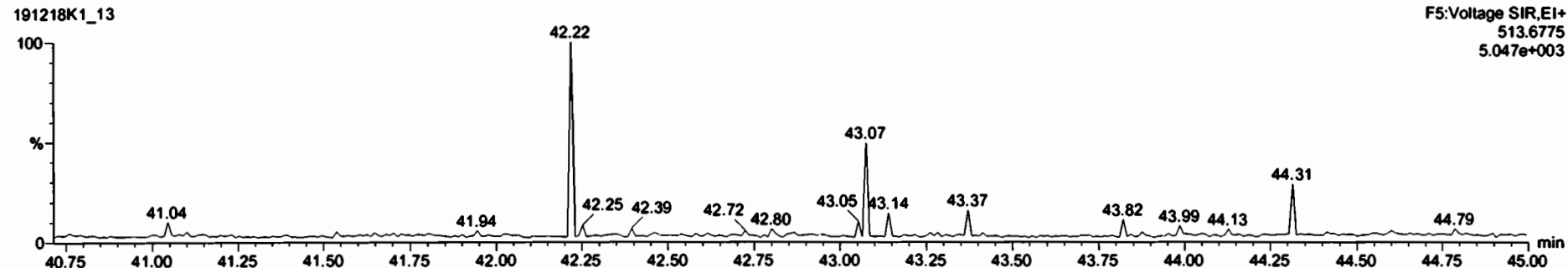
**OCDF**

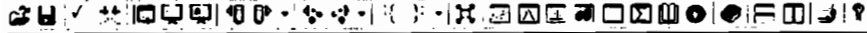


**13C-OCDF**



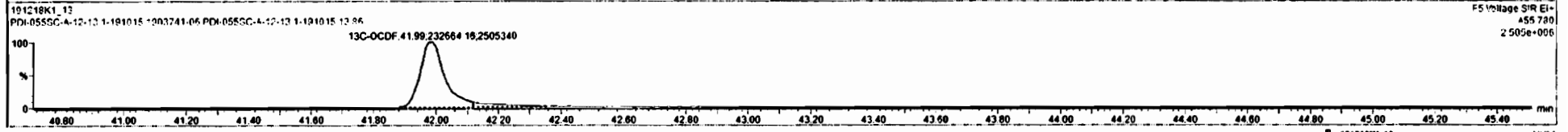
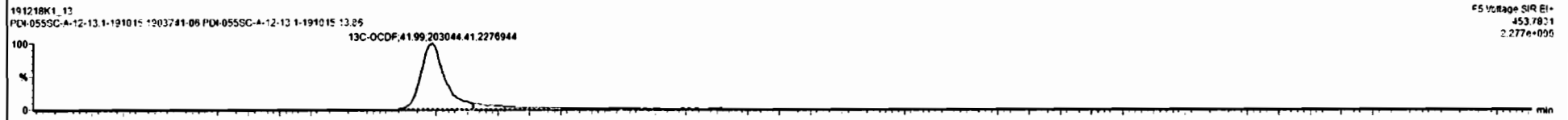
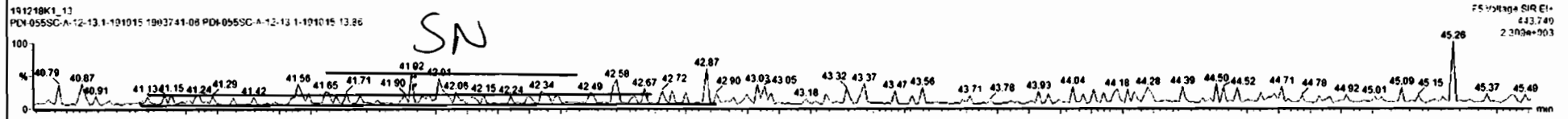
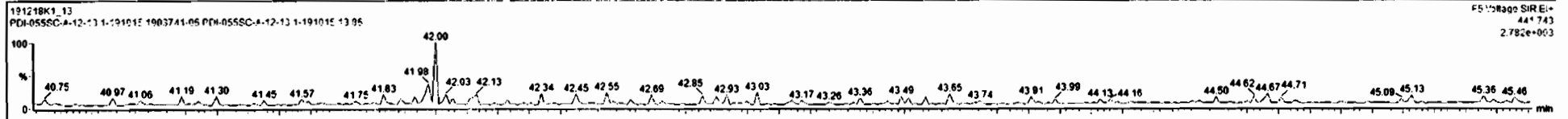
**DPE5**





#	Name	Resp	RA	rv	RUF	w/wet	Pred RT	RT	Pred.R.	RRT	RRT Fall	Conc.	%Rec	DL	EMPC
12	1,2,3,6,7,8-HxCDF			YES	1.0950	10.119	33.91		1.000		YES			0.0378	
13	2,3,4,6,7,8-HxCDF			YES	1.1806	10.119	34.51		1.001		YES			0.0494	
14	1,2,3,7,8,9-HxCDF			YES	1.0726	10.119	35.30		1.000		YES			0.0506	
15	1,2,3,4,6,7,8-HpCDF			YES	1.1360	10.119	37.13		1.001		YES			0.0407	
16	1,2,3,4,7,8,9-HpCDF			YES	1.2600	10.119	39.15		1.000		YES			0.0607	
17	OCDF			YES	1.9228	10.119	41.69		1.000		YES			0.148	
18	13C-2,3,7,8-TCDD	3.93e5	0.78	NO	1.0400	10.119	26.15	26.14	1.027	1.027	NO	183.9	93.0	0.580	
19	13C-1,2,3,7,8-PeCDD	3.02e5	0.66	NO	0.7478	10.119	31.29	31.29	1.230	1.229	NO	199.6	101	0.831	
20	13C-1,2,3,4,7,8-HxCDD	2.20e5	1.24	NO	0.9483	10.119	34.64	34.65	1.014	1.014	NO	148.8	75.3	1.08	

#	Name	Pred RT	RT	ret Resp	nl2 Resp	1° Ratio (Pred)	RA	rv	EMPC	Conc.
1										

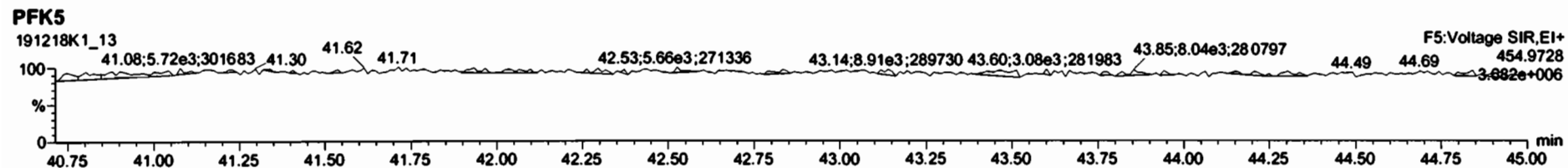
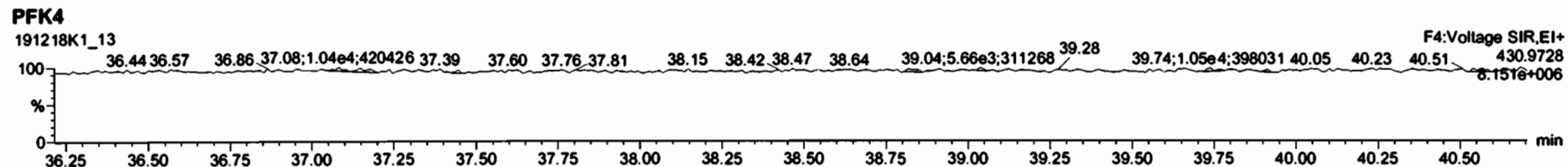
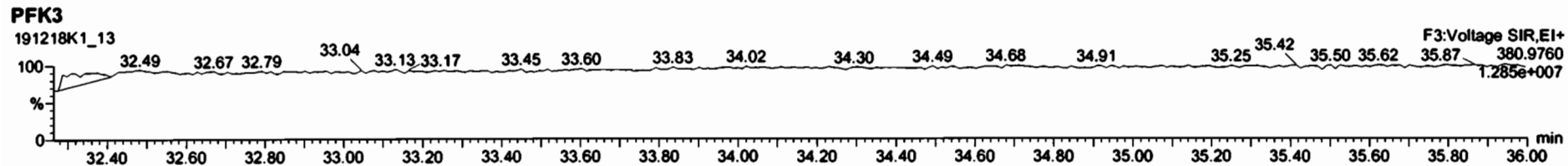
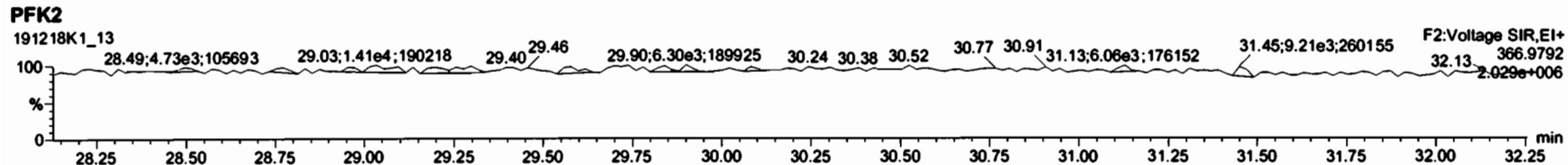
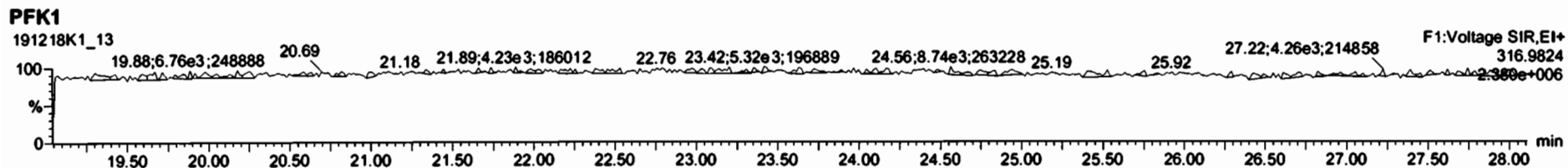


Dataset: Untitled

Last Altered: Thursday, December 19, 2019 07:42:21 Pacific Standard Time

Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

Name: 191218K1\_13, Date: 19-Dec-2019, Time: 03:12:27, ID: 1903741-06 PDI-055SC-A-12-13.1-191015 13.86, Description: PDI-055SC-A-12-13.1-191015



**CONTINUING CALIBRATION**



Vista Analytical Laboratory - Injection Log Run file: 191108D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
191108D1	1	ST191108D1-1	DB	8-NOV-19	11:54:06	ST191108D1-1	NA
191108D1	2	ST191108D1-2	DB	8-NOV-19	12:42:00	ST191108D1-2	NA
191108D1	3	B9J0316-BS1	DB	8-NOV-19	13:29:56	ST191108D1-1	NA
191108D1	4	B9K0011-BS1	DB	8-NOV-19	14:17:51	ST191108D1-1	NA
191108D1	5	QC191108D1-1	DB	8-NOV-19	15:05:47	ST191108D1-1	NA
191108D1	6	SOLVENT BLANK	DB	8-NOV-19	15:53:43	NA	NA
191108D1	7	B9J0316-BLK1	DB	8-NOV-19	16:41:38	ST191108D1-1	NA
191108D1	8	B9K0011-BLK1	DB	8-NOV-19	17:29:33	ST191108D1-1	NA
191108D1	9	QC191108D1-2	DB	8-NOV-19	18:17:28	ST191108D1-1	NA
191108D1	10	QC191108D1-3	DB	8-NOV-19	19:05:16	ST191108D1-1	NA
191108D1	11	QC191108D1-4	DB	8-NOV-19	19:53:05	ST191108D1-2	NA
191108D1	12	QC191108D1-5	DB	8-NOV-19	20:40:50	ST191108D1-2	NA
191108D1	13	1903584-10RE1	DB	8-NOV-19	21:28:44	ST191108D1-1	NA
191108D1	14	1903580-01RE1	DB	8-NOV-19	22:16:28	ST191108D1-1	NA
191108D1	15	1903430-06RE1	DB	8-NOV-19	23:04:17	ST191108D1-1	NA



FORM 4A  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory      Episode No.:      CCAL ID: ST191108D1-1

Contract No.:      SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7      GC Column ID: ZB-5MS

VER Data Filename: 191108D1 S#1 Analysis Date: 8-NOV-19 Time: 11:54:06

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	0.82	0.65-0.89	y	10.8	7.8 - 12.9
1,2,3,7,8-PeCDD	M/M+2	0.63	0.54-0.72	y	47.9	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	48.3	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	52.2	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.21	1.05-1.43	y	50.6	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	48.7	43.0 - 58.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	103	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	y	9.43	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.69	1.32-1.78	y	50.8	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.67	1.32-1.78	y	49.0	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	47.6	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	48.2	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	49.0	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.05-1.43	y	48.8	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.02	0.88-1.20	y	47.0	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.01	0.88-1.20	y	46.4	43.0 - 58.0
OCDF	M+2/M+4	0.88	0.76-1.02	y	95.7	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: 11/8/19

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: 191108D1 S#1 Analysis Date: 8-NOV-19 Time: 11:54:06

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	0.78	0.65-0.89	y	105	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	115	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	113	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	94.7	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05-1.43	y	105	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	117	72.0 - 138.0
13C-OCDD	M/M+2	0.91	0.76-1.02	y	246	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.80	0.65-0.89	y	104	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.57	1.32-1.78	y	111	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	104	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	109	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	98.2	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	0.51	0.43-0.59	y	109	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.44	0.37-0.51	y	109	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.45	0.37-0.51	y	123	77.0 - 129.0
13C-OCDF	M+2/M+4	0.88	0.76-1.02	y	248	96.0 - 415.0
CLEANUP STANDARD (3) 37Cl-2,3,7,8-TCDD					10.1	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: 11/8/19

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: 191108D1 S#1 Analysis Date: 8-NOV-19 Time: 11:54:06

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT 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	1.000	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	1.198	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	1.187	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: 11/8/19

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: 191108D1 S#1 Analysis Date: 8-NOV-19 Time: 11:54:06

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	1.000	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	1.001	0.998-1.004
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.001	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	1.017	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	1.145	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.129	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	1.234	1.091-1.371

Analyst: DB

Date: 11/8/19

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: 191108D1 S#1 Analysis Date: 8-NOV-19 Time: 11:54:06

ZB-5MS IS Data Filename: 191108D1 S#1 Analysis Date: 8-NOV-19 Time: 11:54:06

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)	22:49	1,3,6,8-TCDF (F)	20:42
1,2,8,9-TCDD (L)	27:04	1,2,8,9-TCDF (L)	27:12
1,2,4,7,9-PeCDD (F)	28:40	1,3,4,6,8-PeCDF (F)	27:10
1,2,3,8,9-PeCDD (L)	31:04	1,2,3,8,9-PeCDF (L)	31:18
1,2,4,6,7,9-HxCDD (F)	32:29	1,2,3,4,6,8-HxCDF (F)	31:57
1,2,3,7,8,9-HxCDD (L)	34:26	1,2,3,7,8,9-HxCDF (L)	34:48
1,2,3,4,6,7,9-HpCDD (F)	37:02	1,2,3,4,6,7,8-HpCDF (F)	36:39
1,2,3,4,6,7,8-HpCDD (L)	37:53	1,2,3,4,7,8,9-HpCDF (L)	38:25

(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: DBDate: 11/8/19

Client ID: 1613 CS3 19C2204  
Lab ID: ST191108D1-1

Filename: 191108D1 S:1 Acq: 8-NOV-19 11:54:06  
GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19 wt/vol: 1.000

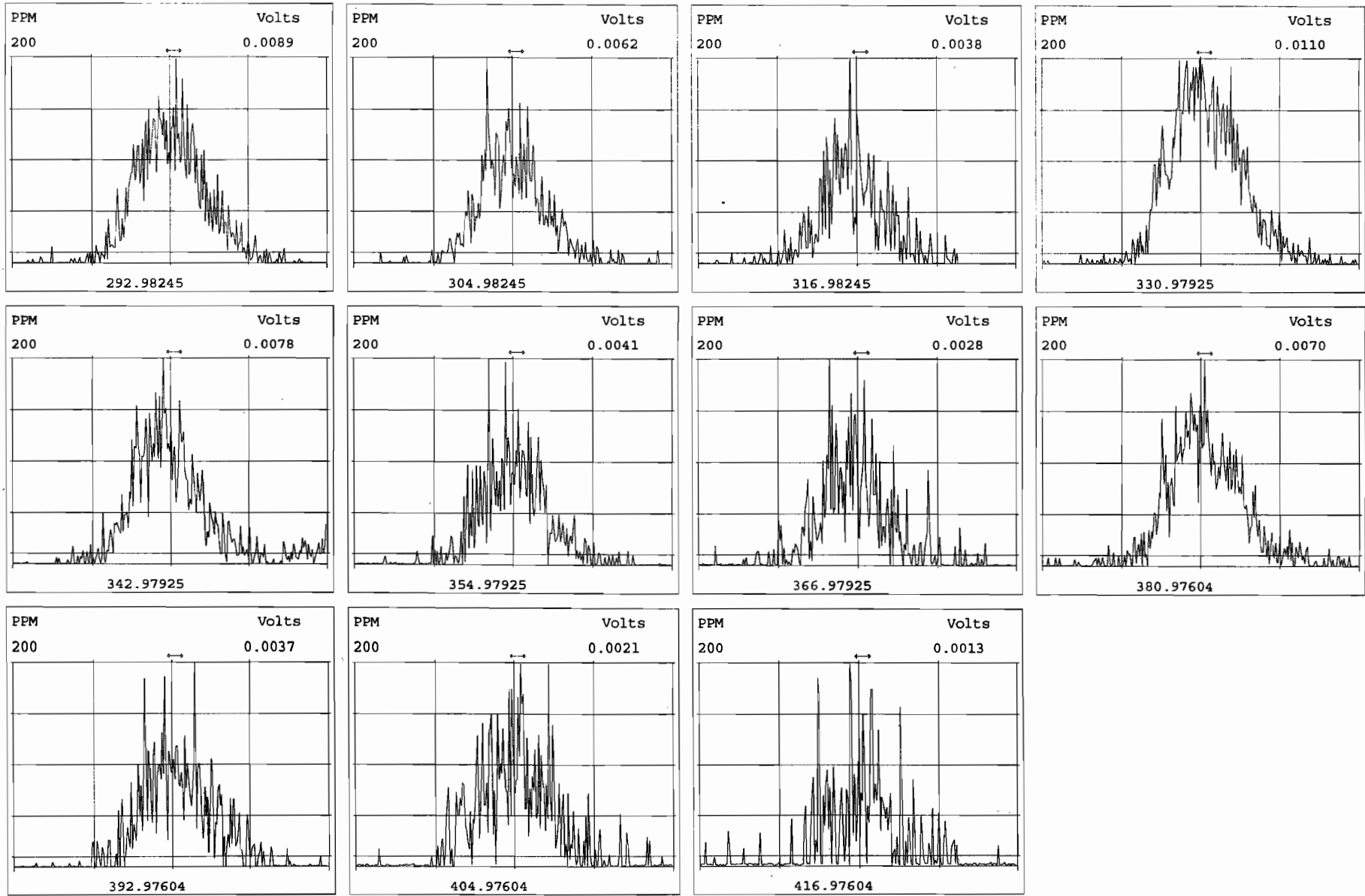
ConCal: ST191108D1-1  
EndCAL: NA

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	8.71e+05	0.82 y	0.91	26:12	10.836			* 2.5	*	Total Tetra-Dioxins	78.5	79.2		*	*
1,2,3,7,8-PeCDD	3.38e+06	0.63 y	0.90	30:43	47.860			* 2.5	*	Total Penta-Dioxins	179	179		*	*
1,2,3,4,7,8-HxCDD	3.70e+06	1.25 y	1.10	34:01	48.335			* 2.5	*	Total Hexa-Dioxins	220	221		*	*
1,2,3,6,7,8-HxCDD	3.79e+06	1.23 y	0.94	34:08	52.168			* 2.5	*	Total Hepta-Dioxins	113	114		*	*
1,2,3,7,8,9-HxCDD	3.94e+06	1.21 y	0.96	34:26	50.556			* 2.5	*	Total Tetra-Furans	34.1	34.9		*	*
1,2,3,4,6,7,8-HpCDD	3.50e+06	1.05 y	0.98	37:53	48.712			* 2.5	*	Total Penta-Furans	211.11	211.66		*	*
OCDD	6.73e+06	0.89 y	0.96	41:09	102.98			* 2.5	*	Total Hexa-Furans	257	257		*	*
2,3,7,8-TCDF	1.18e+06	0.78 y	0.95	25:25	9.4278			* 2.5	*	Total Hepta-Furans	93.7	94.3		*	*
1,2,3,7,8-PeCDF	5.66e+06	1.69 y	0.96	29:32	50.783			* 2.5	*						
2,3,4,7,8-PeCDF	5.37e+06	1.67 y	1.01	30:26	48.958			* 2.5	*						
1,2,3,4,7,8-HxCDF	4.85e+06	1.22 y	1.18	33:08	47.606			* 2.5	*						
1,2,3,6,7,8-HxCDF	5.01e+06	1.23 y	1.07	33:15	48.233			* 2.5	*						
2,3,4,6,7,8-HxCDF	5.08e+06	1.24 y	1.11	33:51	48.997			* 2.5	*						
1,2,3,7,8,9-HxCDF	4.47e+06	1.24 y	1.06	34:48	48.840			* 2.5	*						
1,2,3,4,6,7,8-HpCDF	4.17e+06	1.02 y	1.13	36:39	47.036			* 2.5	*						
1,2,3,4,7,8,9-HpCDF	4.07e+06	1.01 y	1.28	38:24	46.432			* 2.5	*						
OCDF	7.41e+06	0.88 y	0.95	41:23	95.740			* 2.5	*						
IS	13C-2,3,7,8-TCDD	8.88e+06	0.78 y	1.10	26:11	104.61				Rec	Qual				
IS	13C-1,2,3,7,8-PeCDD	7.83e+06	0.62 y	0.88	30:42	114.56				105					
IS	13C-1,2,3,4,7,8-HxCDD	6.95e+06	1.29 y	0.64	34:00	113.18				115					
IS	13C-1,2,3,6,7,8-HxCDD	7.74e+06	1.31 y	0.86	34:07	94.674				113					
IS	13C-1,2,3,7,8,9-HxCDD	8.10e+06	1.27 y	0.81	34:25	105.04				94.7					
IS	13C-1,2,3,4,6,7,8-HpCDD	7.34e+06	1.06 y	0.65	37:51	117.33				105					
IS	13C-OCDD	1.36e+07	0.91 y	0.58	41:09	246.16				117					
IS	13C-2,3,7,8-TCDF	1.31e+07	0.80 y	1.03	25:24	103.75				123					
IS	13C-1,2,3,7,8-PeCDF	1.16e+07	1.57 y	0.85	29:31	111.14				104					
IS	13C-2,3,4,7,8-PeCDF	1.08e+07	1.61 y	0.85	30:25	104.34				111					
IS	13C-1,2,3,4,7,8-HxCDF	8.66e+06	0.51 y	0.83	33:07	108.86				104					
IS	13C-1,2,3,6,7,8-HxCDF	9.72e+06	0.51 y	1.03	33:15	98.249				109					
IS	13C-2,3,4,6,7,8-HxCDF	9.31e+06	0.51 y	0.95	33:50	102.14				98.2					
IS	13C-1,2,3,7,8,9-HxCDF	8.62e+06	0.51 y	0.83	34:47	108.95				102					
IS	13C-1,2,3,4,6,7,8-HpCDF	7.86e+06	0.44 y	0.76	36:38	108.53				109					
IS	13C-1,2,3,4,7,8,9-HpCDF	6.85e+06	0.45 y	0.58	38:24	123.27				109					
IS	13C-OCDF	1.63e+07	0.88 y	0.69	41:22	248.08				123					
C/Up	37C1-2,3,7,8-TCDD	9.41e+05		1.20	26:12	10.136				124					
RS/RT	13C-1,2,3,4-TCDD	7.75e+06	0.76 y	1.00	25:37	100.00				101					
RS	13C-1,2,3,4-TCDF	1.22e+07	0.80 y	1.00	24:12	100.00									
RS/RT	13C-1,2,3,4,6,9-HxCDF	9.56e+06	0.51 y	1.00	33:32	100.00									

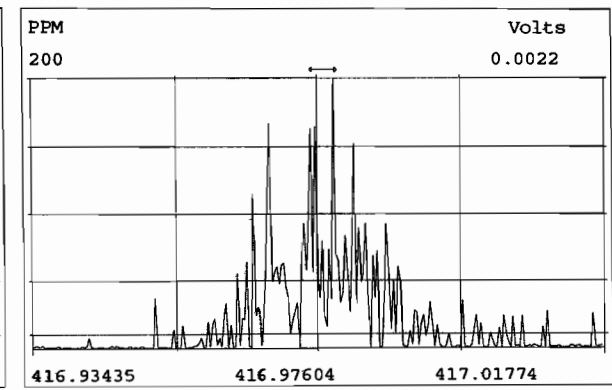
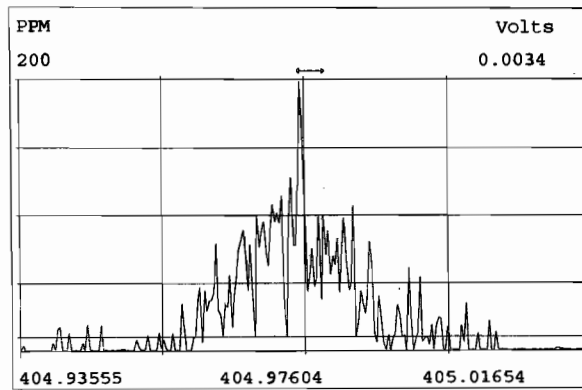
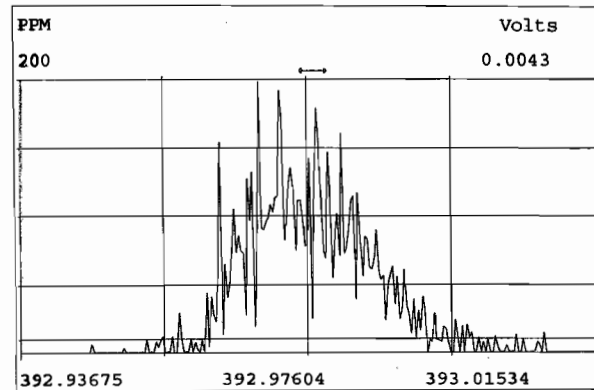
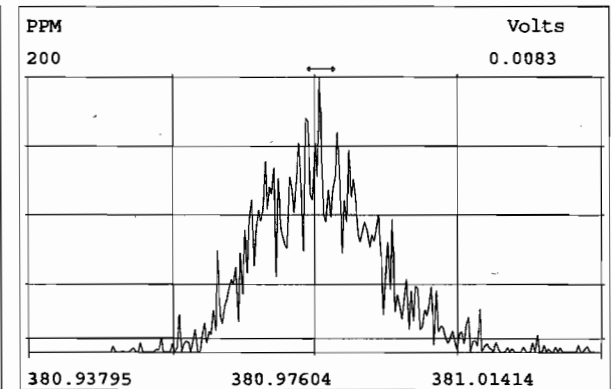
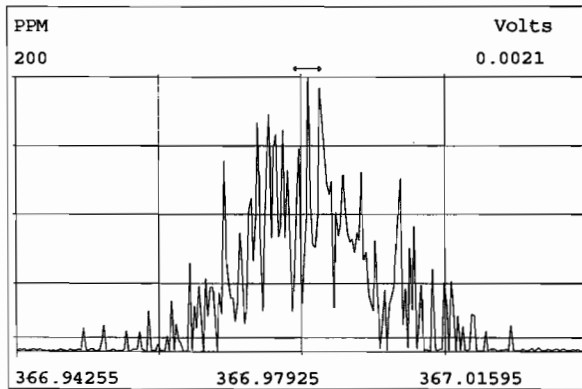
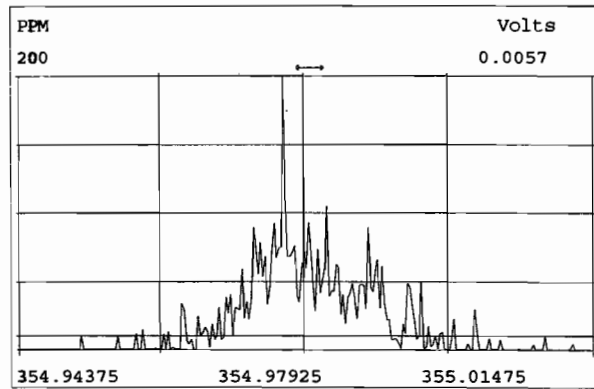
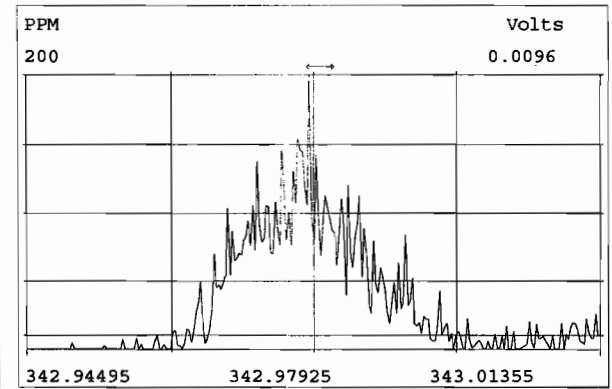
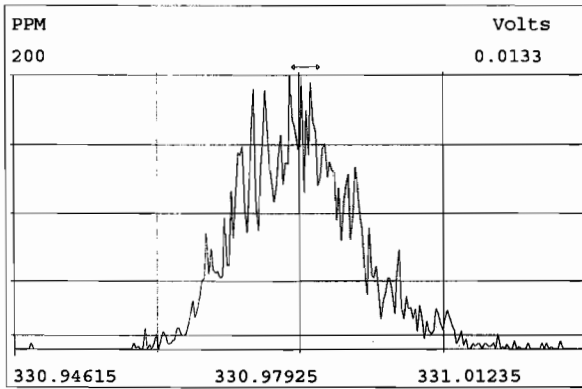
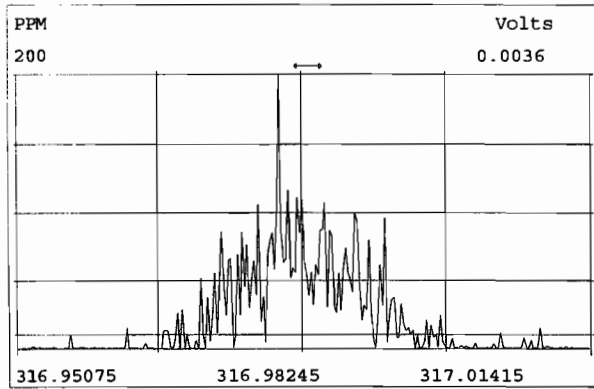
Integrations Reviewed  
by DB by CT  
Analyst: DB Analyst: CT  
Date: 11/8/19 Date: 11/11/19

Vista Analytical Laboratory - Injection Log Run file: 191108D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
191108D1	1	ST191108D1-1	DB	8-NOV-19	11:54:06	ST191108D1-1	NA
191108D1	2	ST191108D1-2	DB	8-NOV-19	12:42:00	ST191108D1-2	NA
191108D1	3	B9J0316-BS1	DB	8-NOV-19	13:29:56	ST191108D1-1	NA
191108D1	4	B9K0011-BS1	DB	8-NOV-19	14:17:51	ST191108D1-1	NA
191108D1	5	QC191108D1-1	DB	8-NOV-19	15:05:47	ST191108D1-1	NA
191108D1	6	SOLVENT BLANK	DB	8-NOV-19	15:53:43	NA	NA
191108D1	7	B9J0316-BLK1	DB	8-NOV-19	16:41:38	ST191108D1-1	NA
191108D1	8	B9K0011-BLK1	DB	8-NOV-19	17:29:33	ST191108D1-1	NA
191108D1	9	QC191108D1-2	DB	8-NOV-19	18:17:28	ST191108D1-1	NA
191108D1	10	QC191108D1-3	DB	8-NOV-19	19:05:16	ST191108D1-1	NA
191108D1	11	QC191108D1-4	DB	8-NOV-19	19:53:05	ST191108D1-2	NA
191108D1	12	QC191108D1-5	DB	8-NOV-19	20:40:50	ST191108D1-2	NA
191108D1	13	1903584-10RE1	DB	8-NOV-19	21:28:44	ST191108D1-1	NA
191108D1	14	1903580-01RE1	DB	8-NOV-19	22:16:28	ST191108D1-1	NA
191108D1	15	1903430-06RE1	DB	8-NOV-19	23:04:17	ST191108D1-1	NA

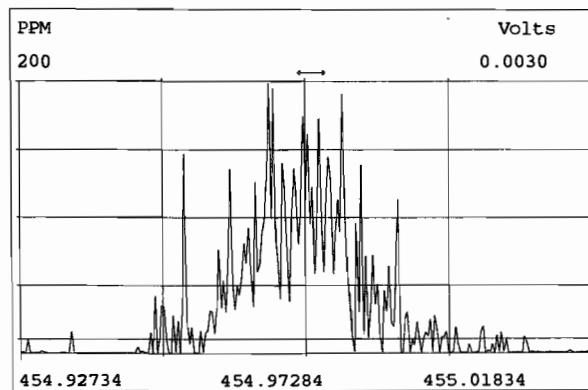
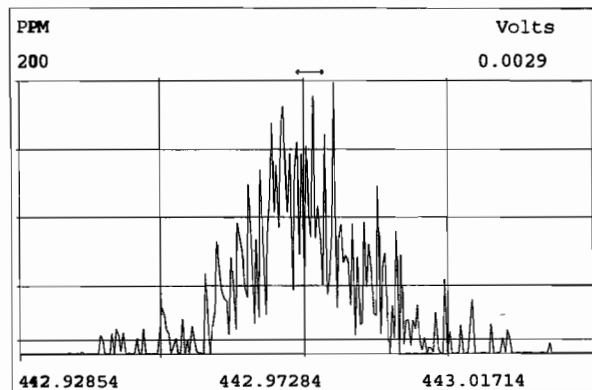
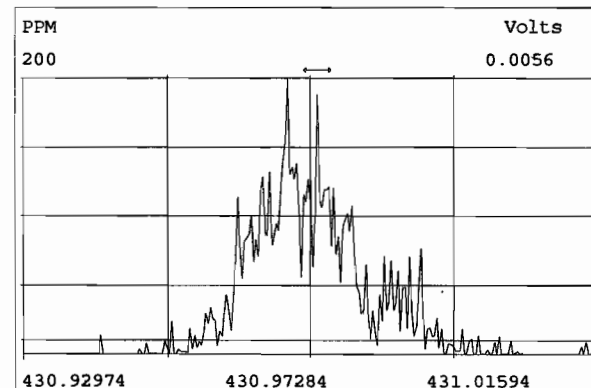
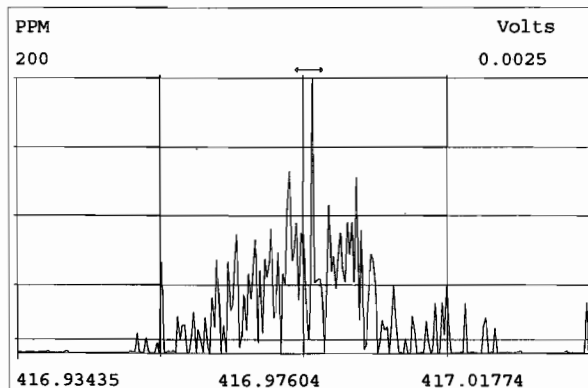
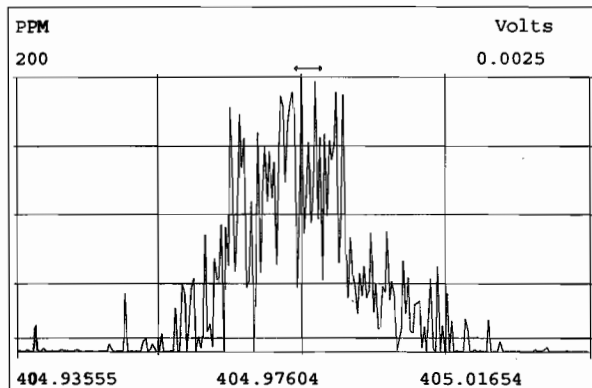
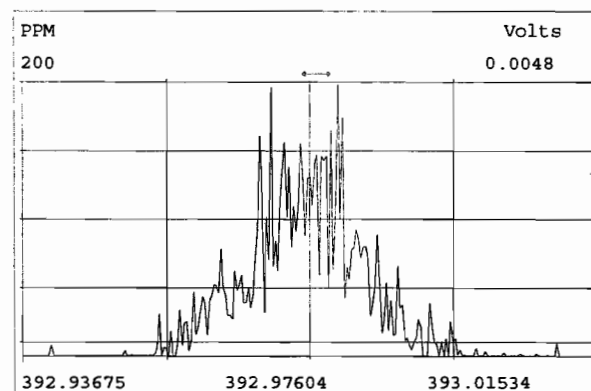
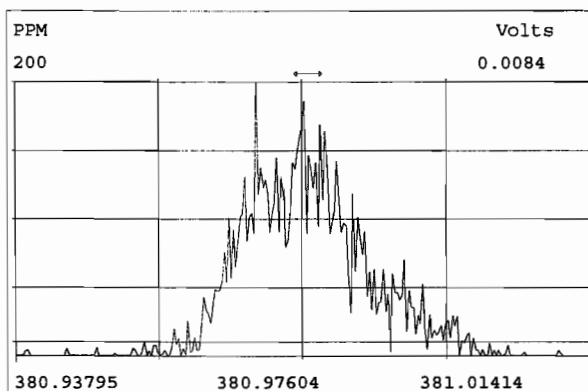
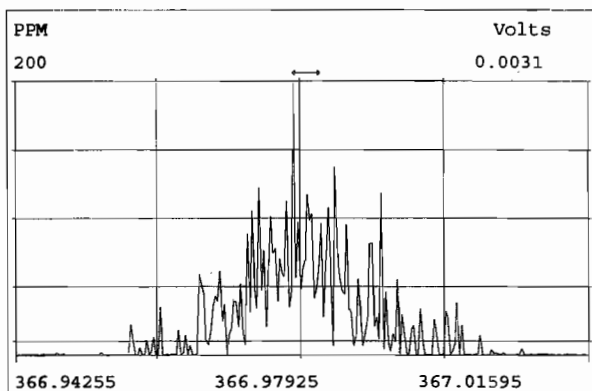






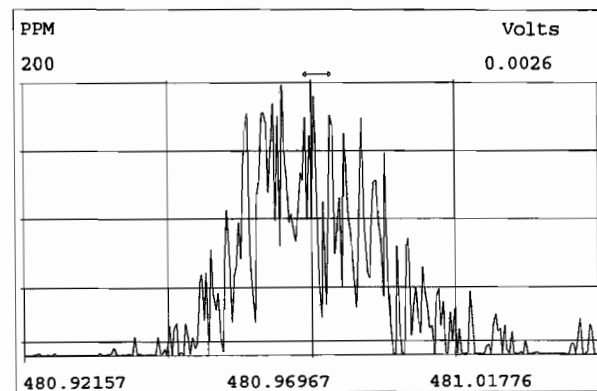
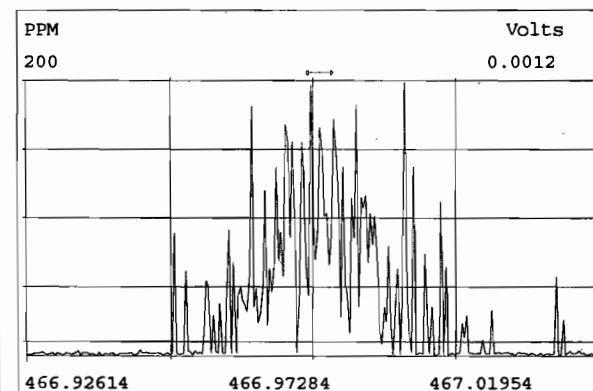
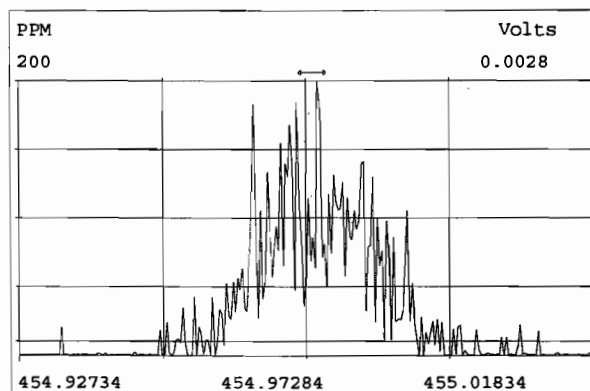
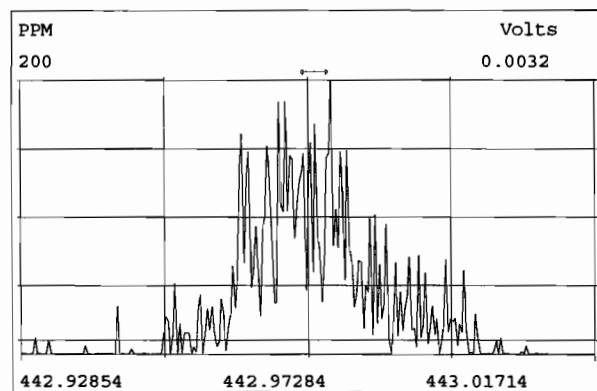
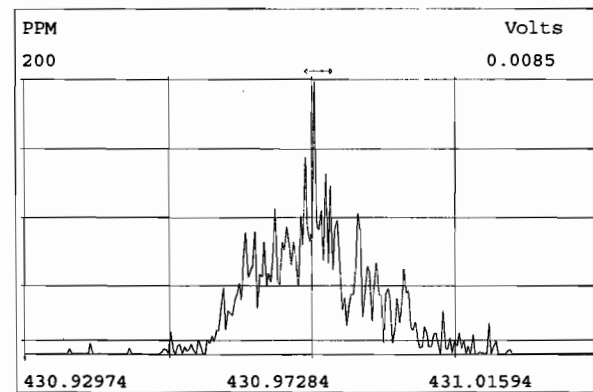
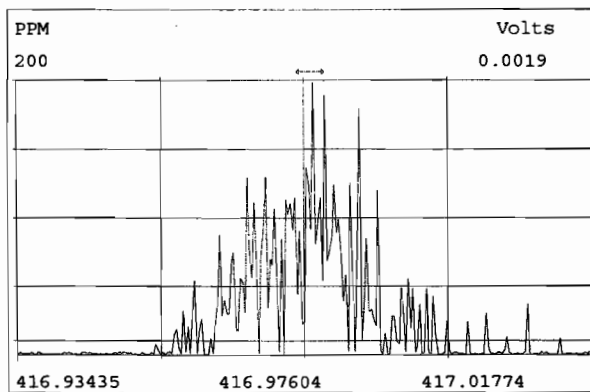
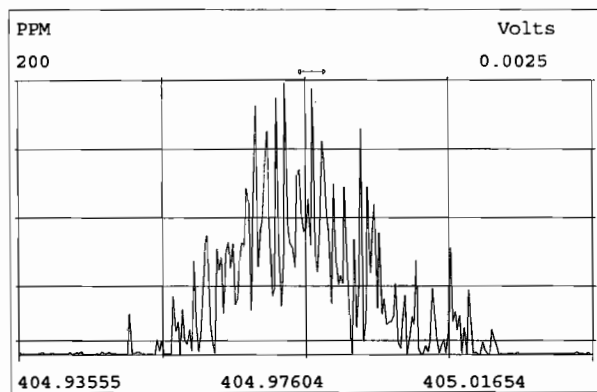
Peak Locate Examination: 8-NOV-2019:11:50 File:191108D1

Experiment:OCDD\_DB5 Function:3 Reference:PFK



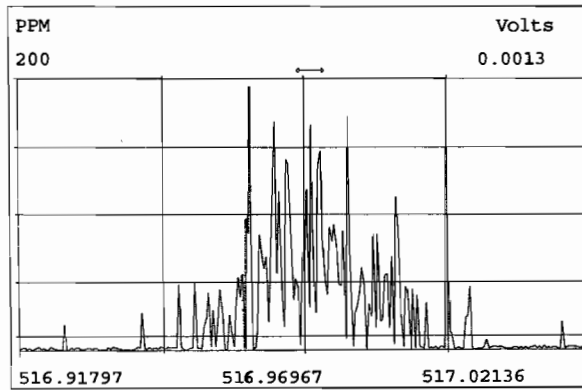
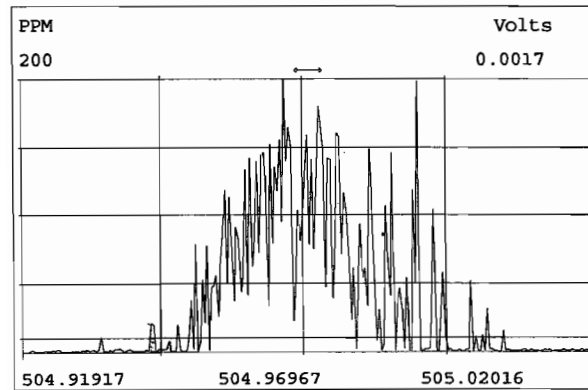
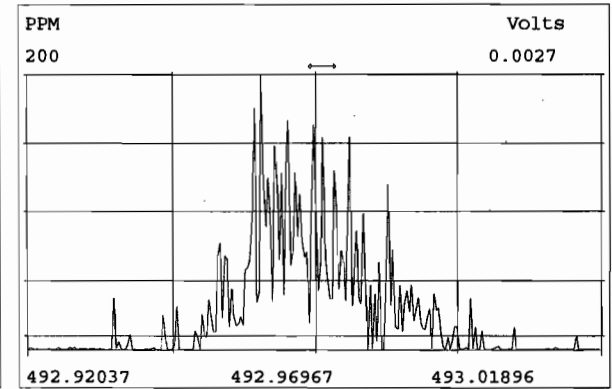
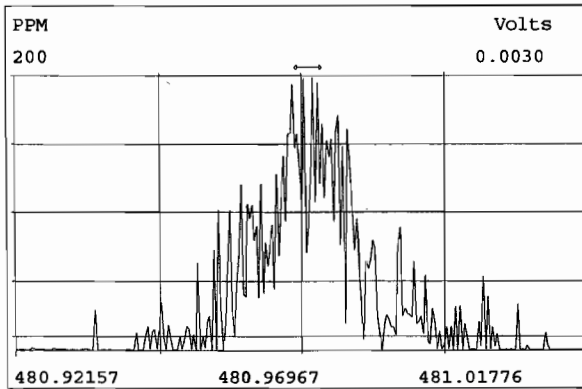
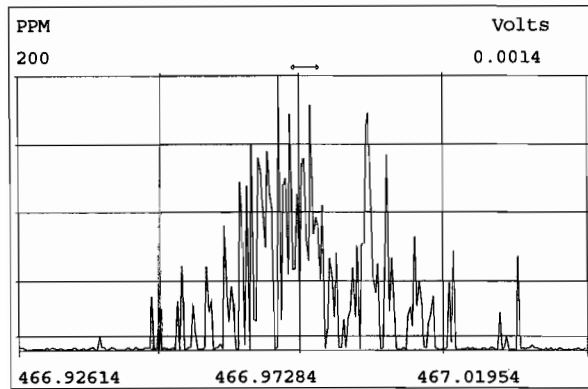
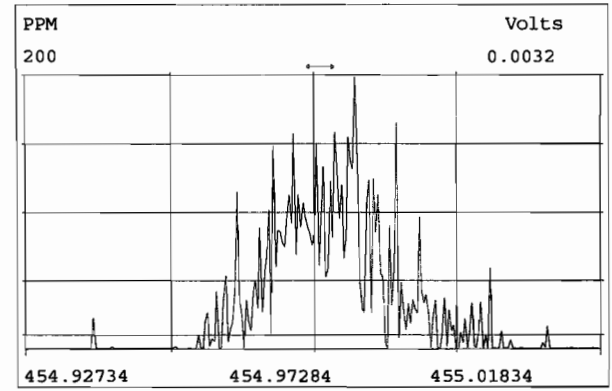
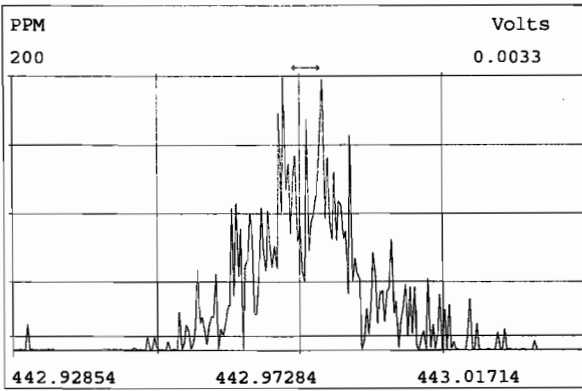
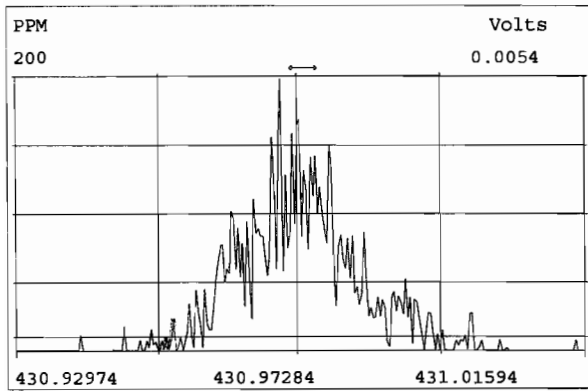
Peak Locate Examination: 8-NOV-2019:11:51 File:191108D1

Experiment:OCDD\_DB5 Function:4 Reference:PFK

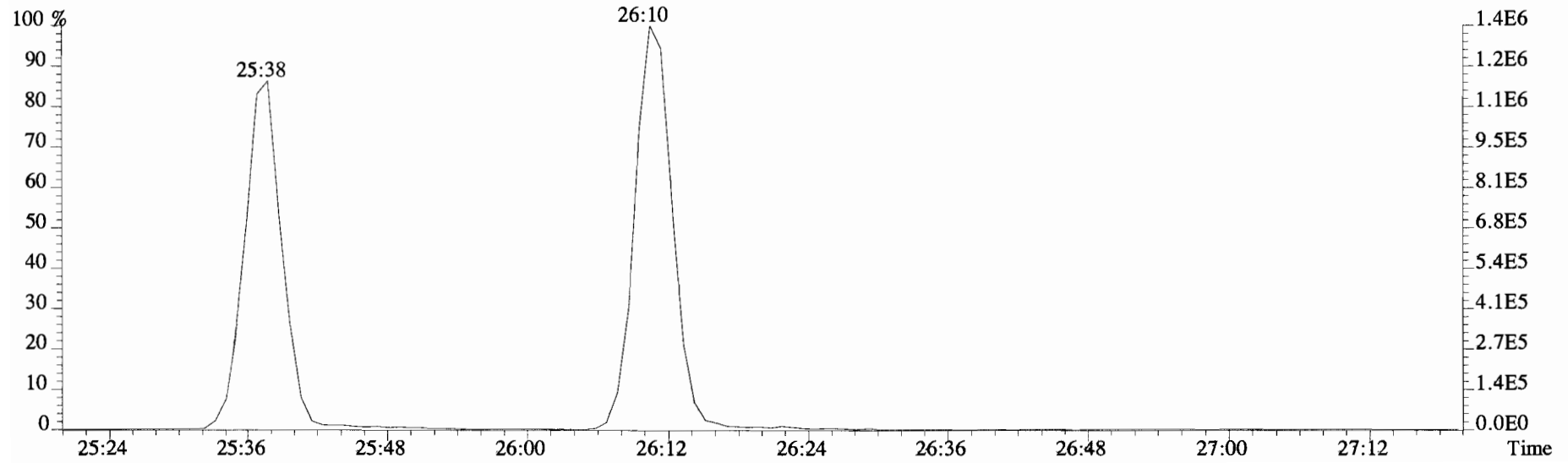
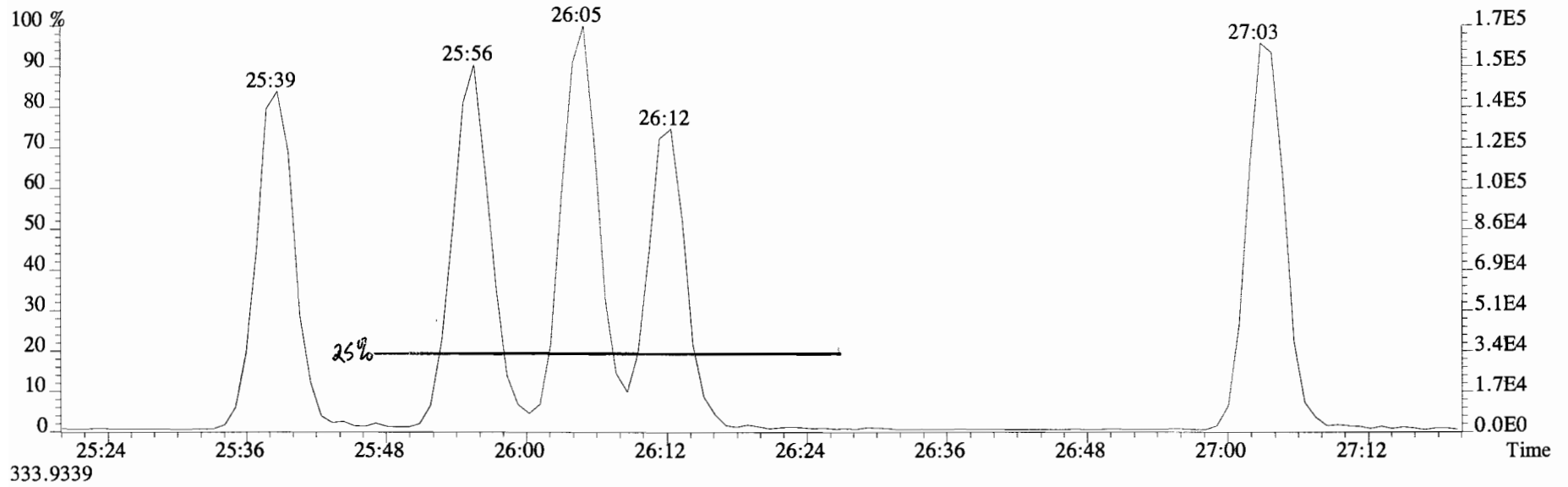


Peak Locate Examination: 8-NOV-2019:11:52 File:191108D1

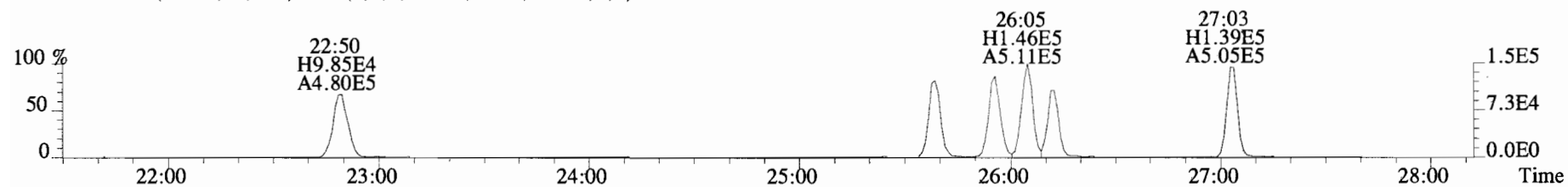
Experiment:OCDD\_DB5 Function:5 Reference:PFK



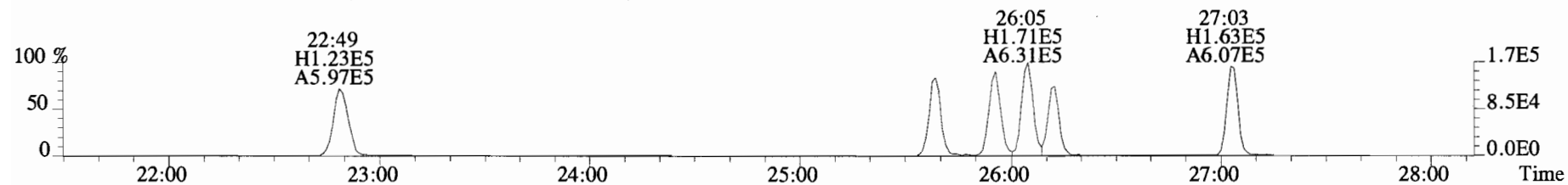
File:191108D1 #1-492 Acq: 8-NOV-2019 11:54:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191108D1-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
321.8936



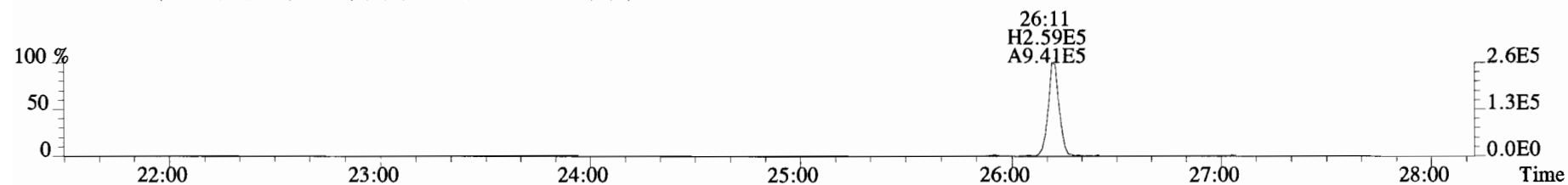
File:191108D1 #1-492 Acq: 8-NOV-2019 11:54:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191108D1-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



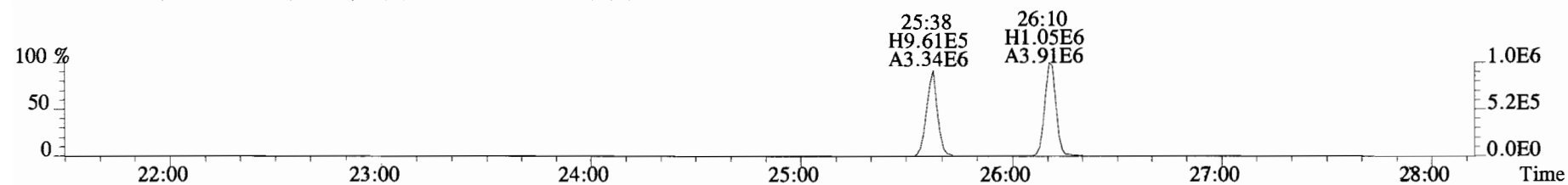
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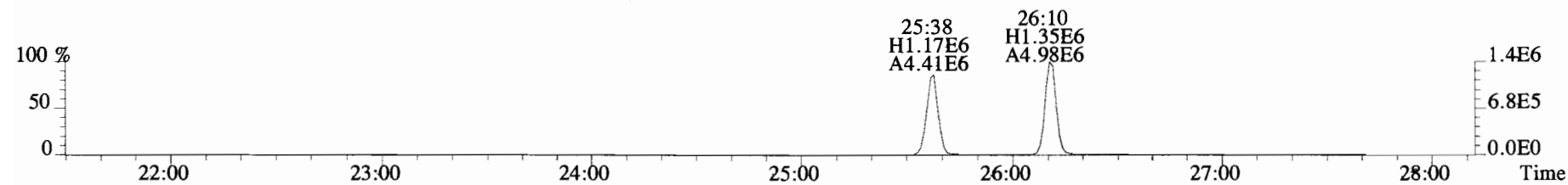
327.8847 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



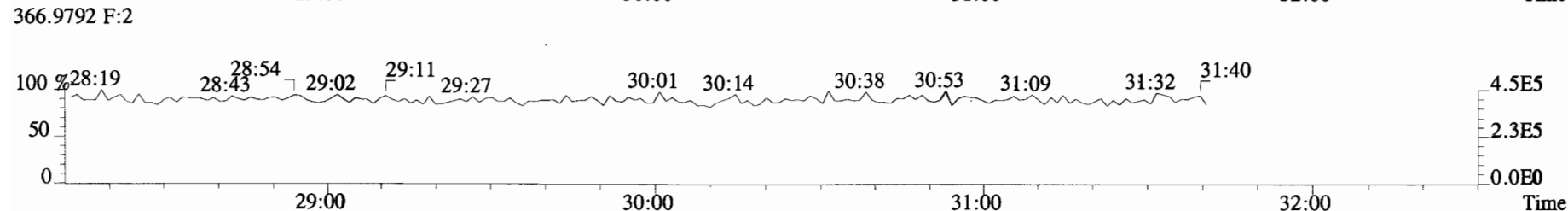
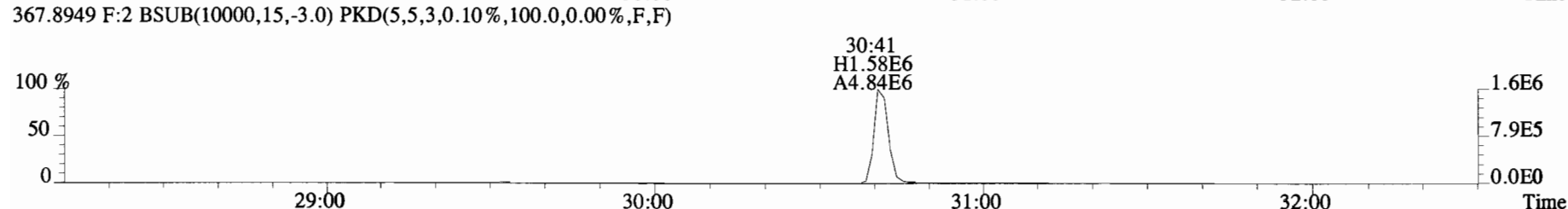
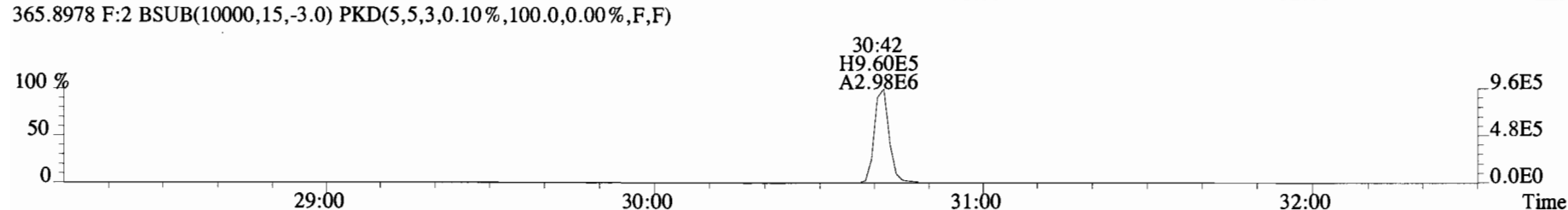
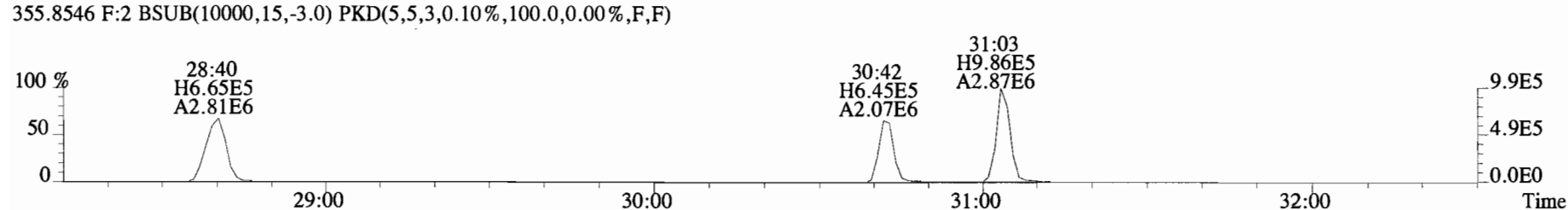
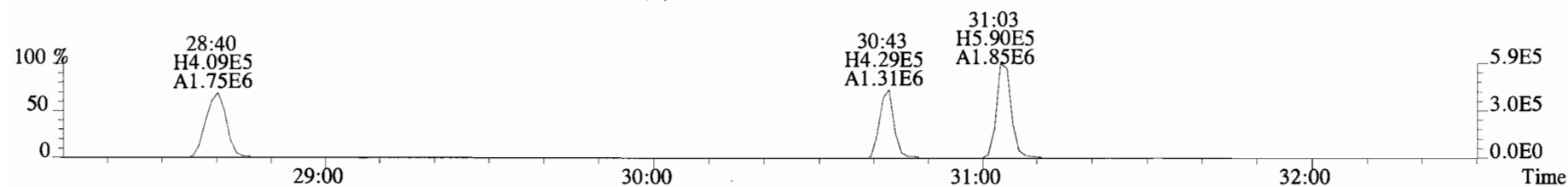
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



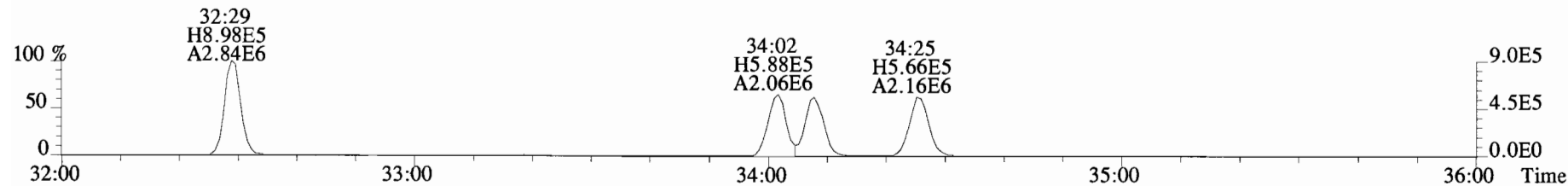
333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



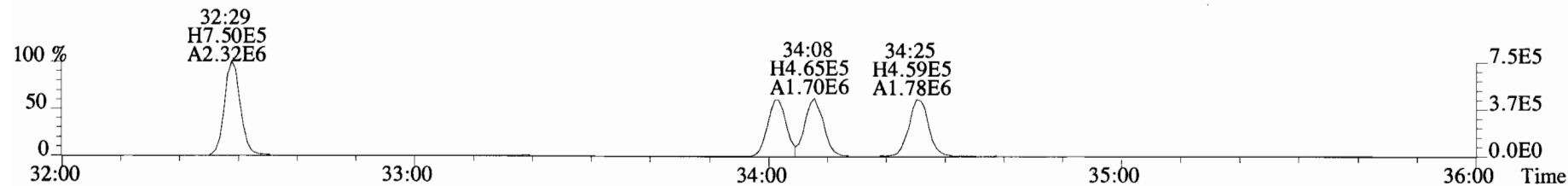
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Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191108D1-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



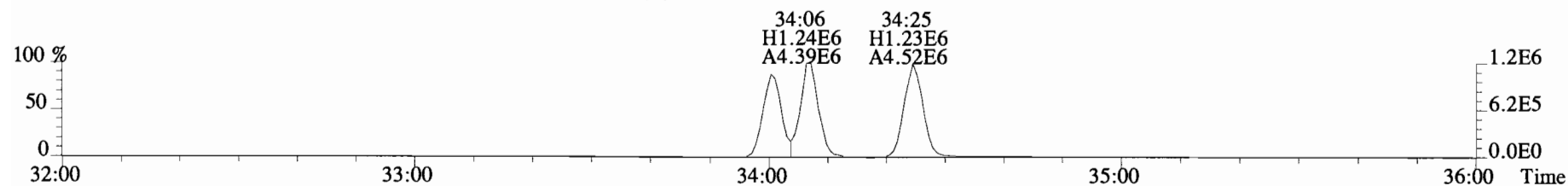
File:191108D1 #1-384 Acq: 8-NOV-2019 11:54:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191108D1-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



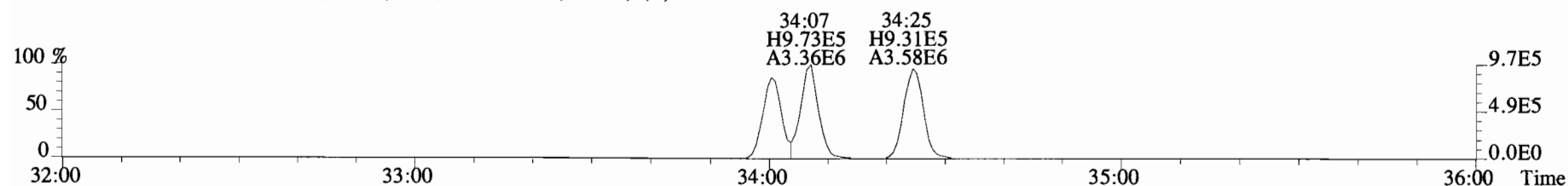
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



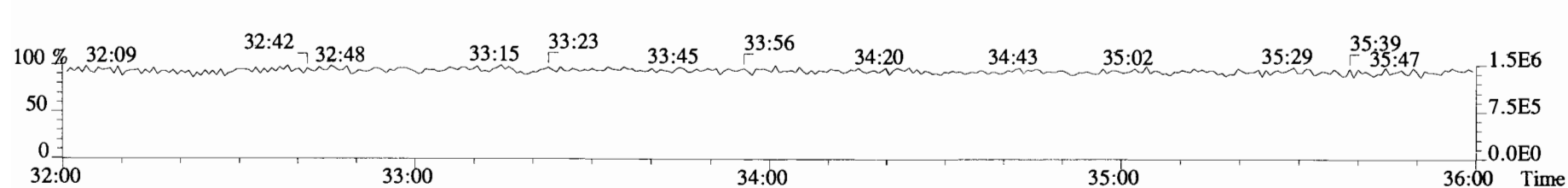
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

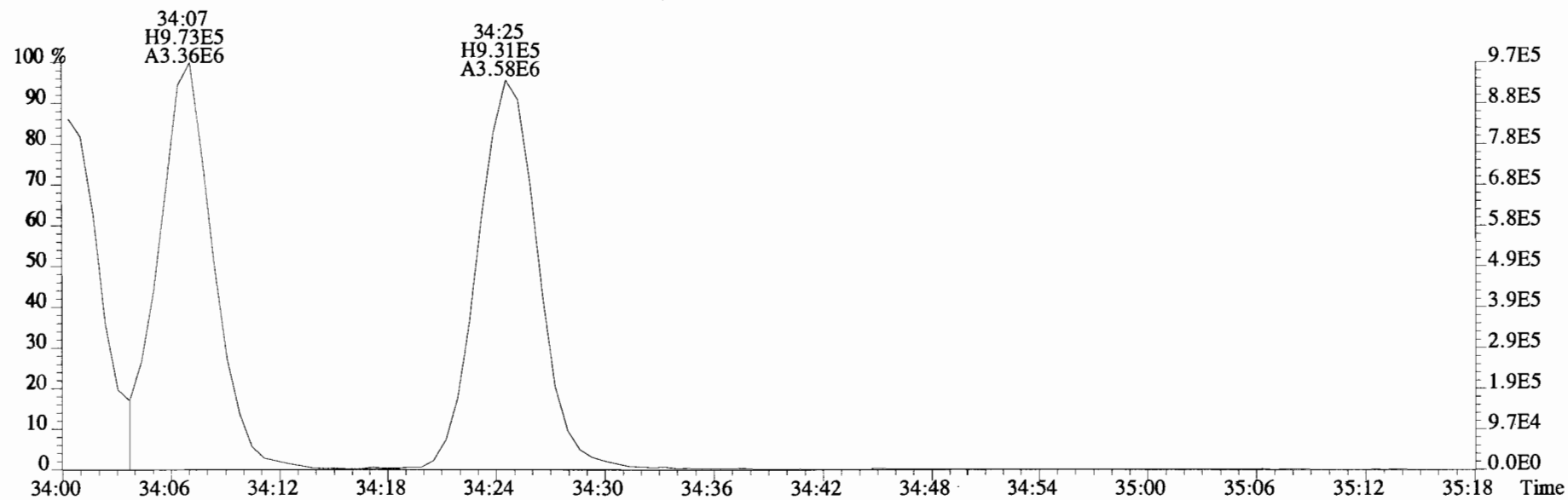
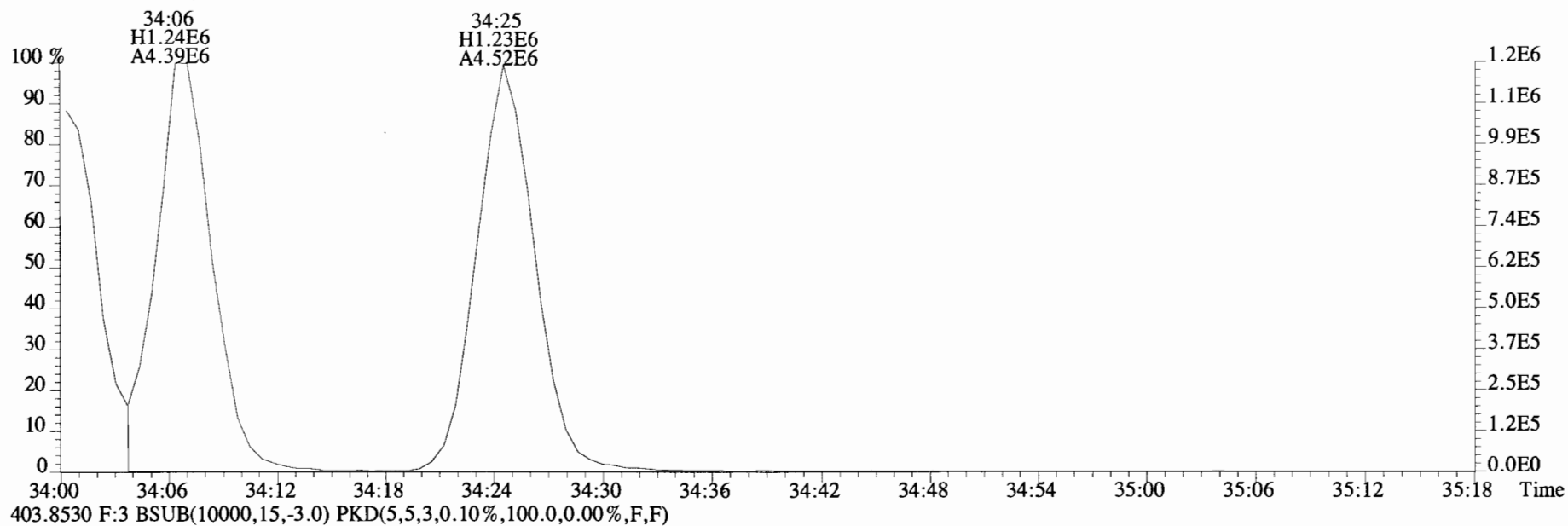


392.9760 F:3

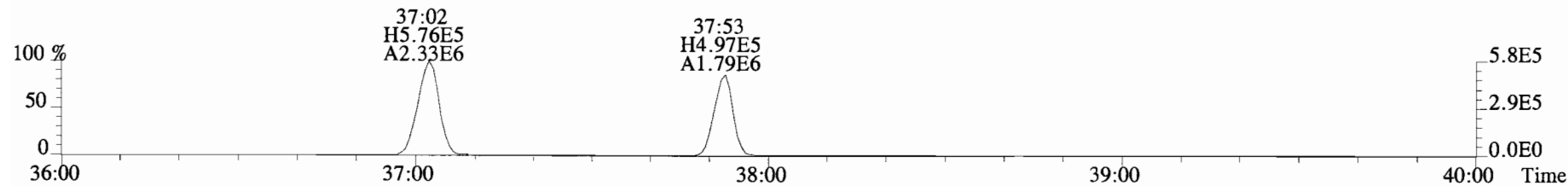




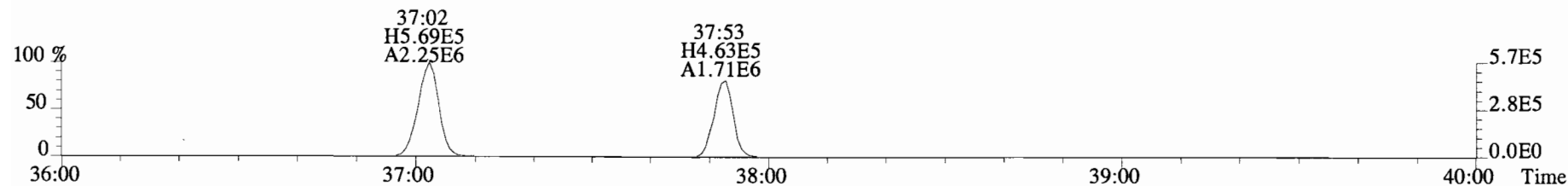
File:191108D1 #1-384 Acq: 8-NOV-2019 11:54:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata Analytical Laboratory VG7 Text:ST191108D1-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



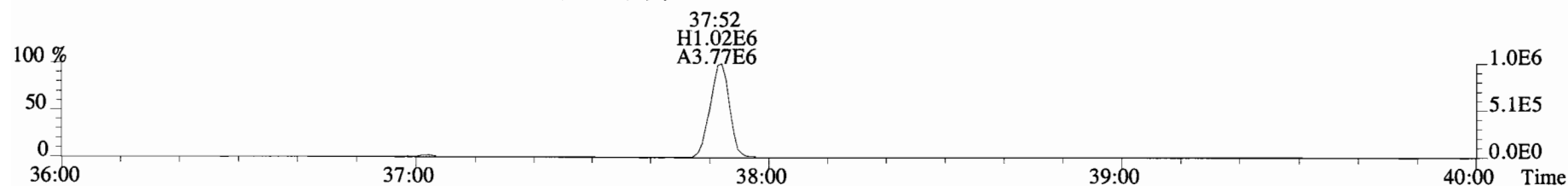
File:191108D1 #1-356 Acq: 8-NOV-2019 11:54:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191108D1-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



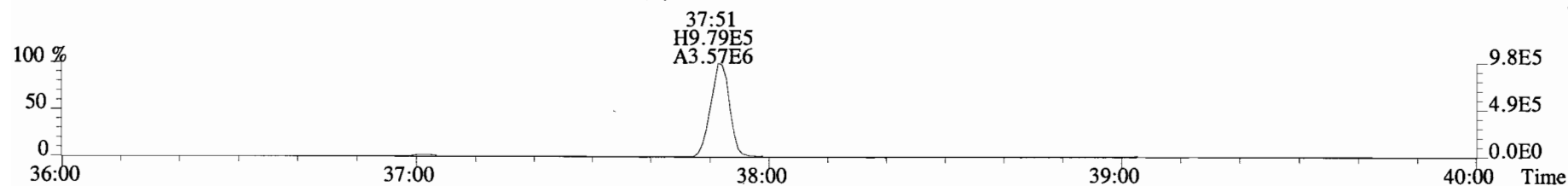
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



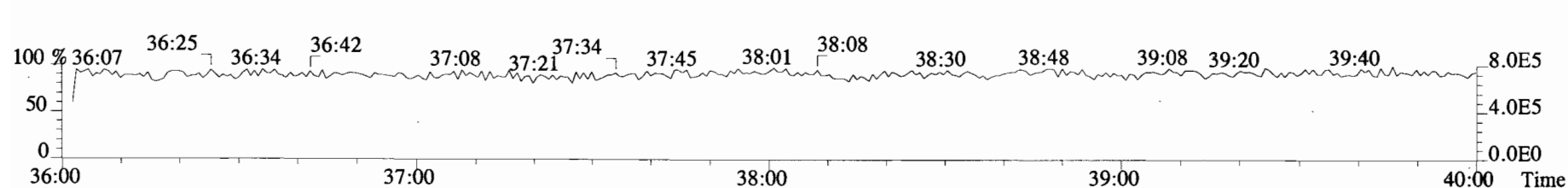
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



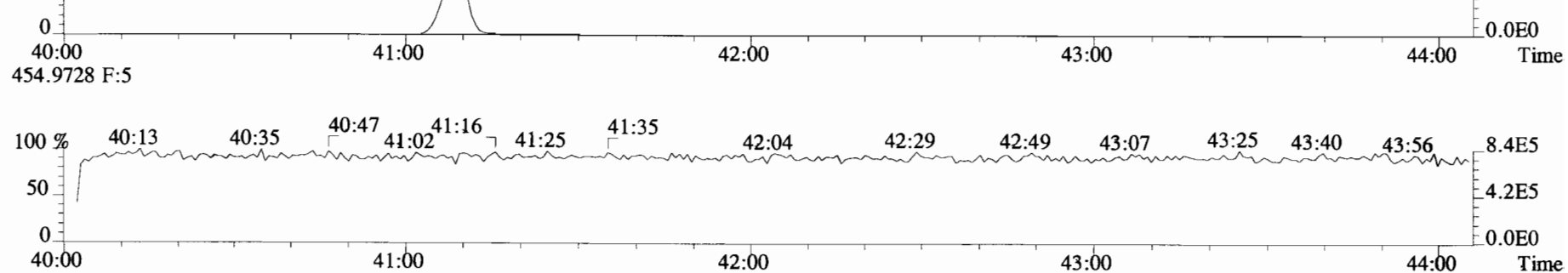
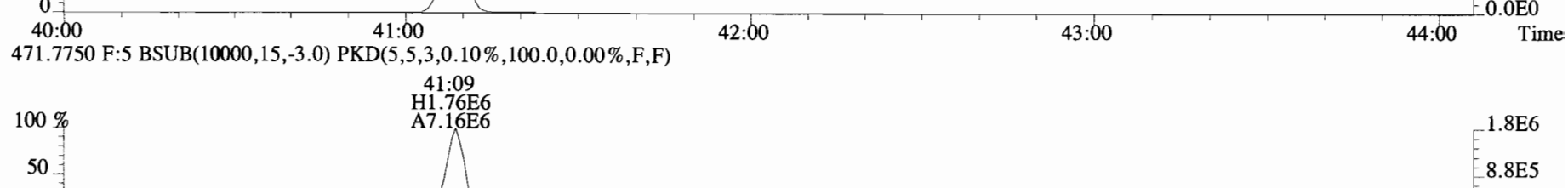
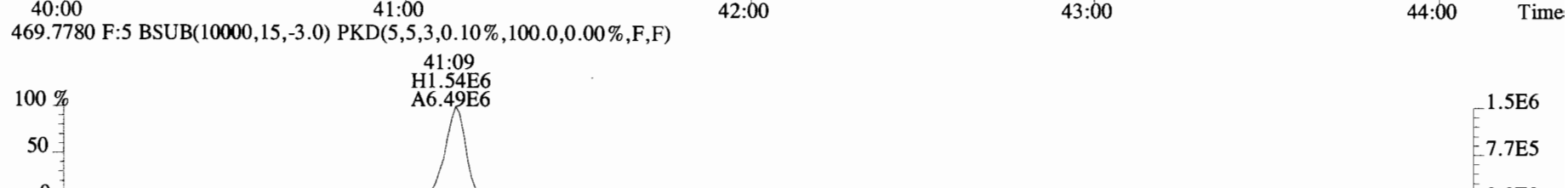
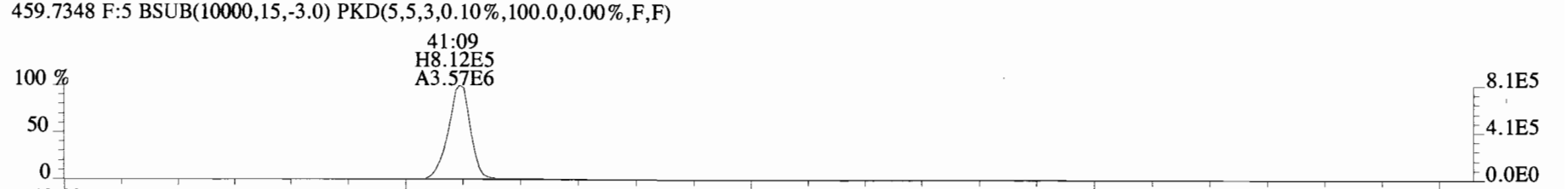
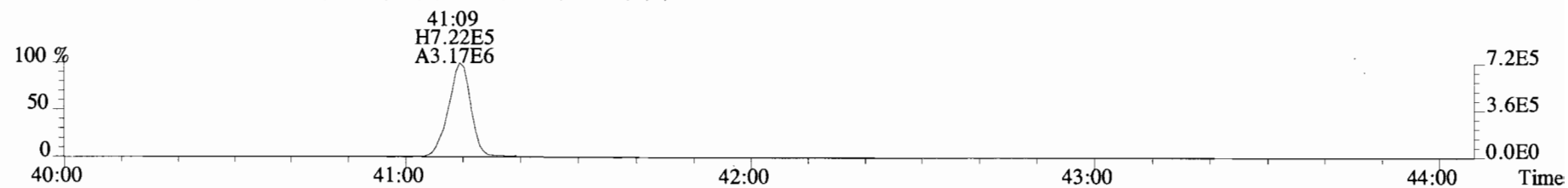
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



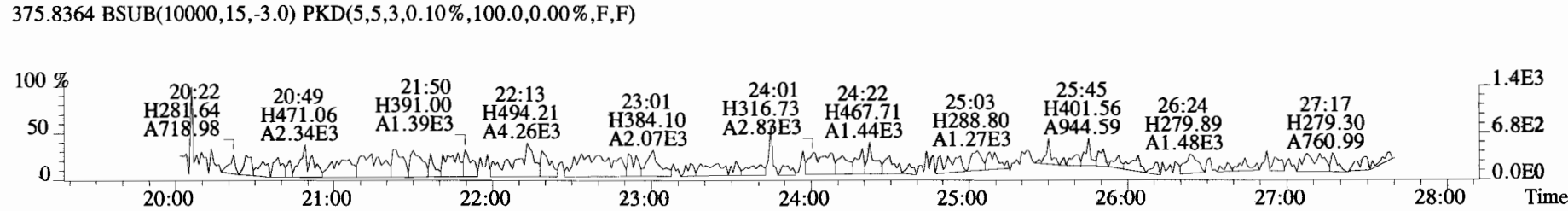
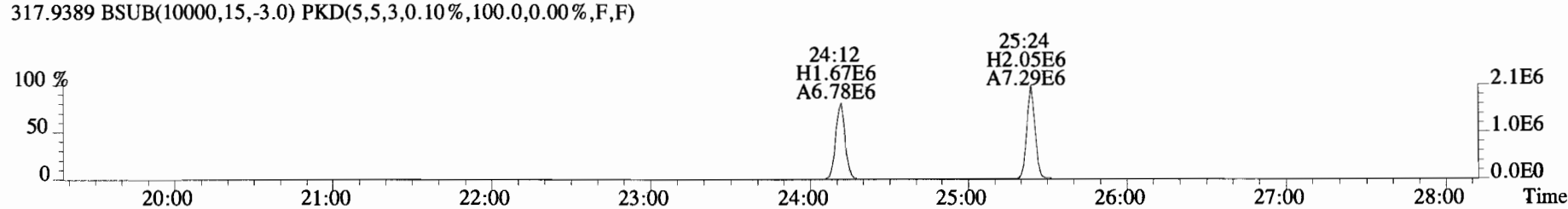
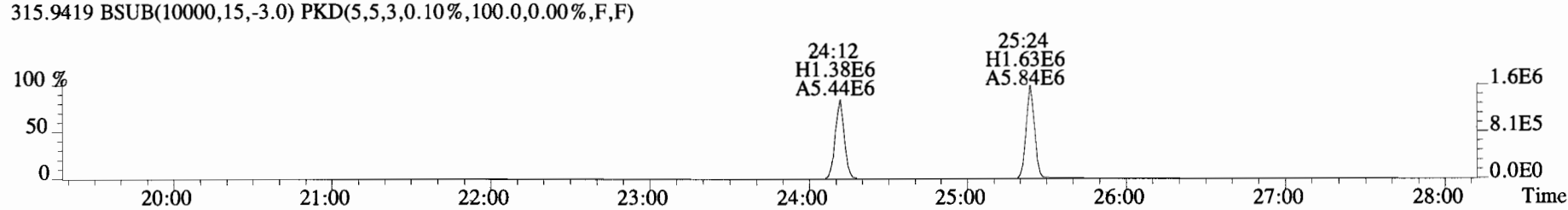
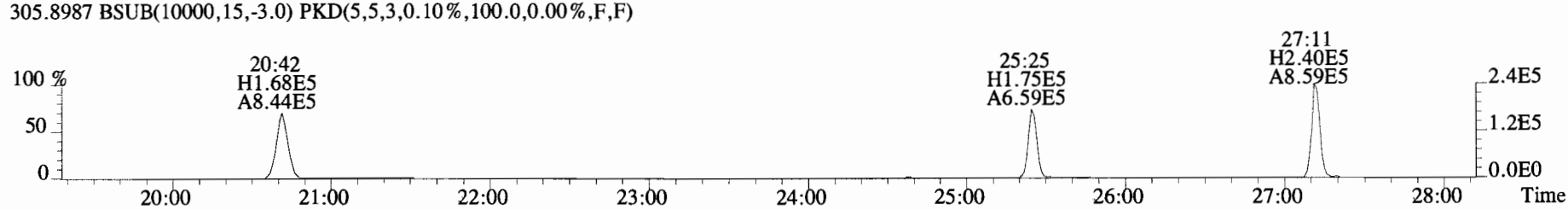
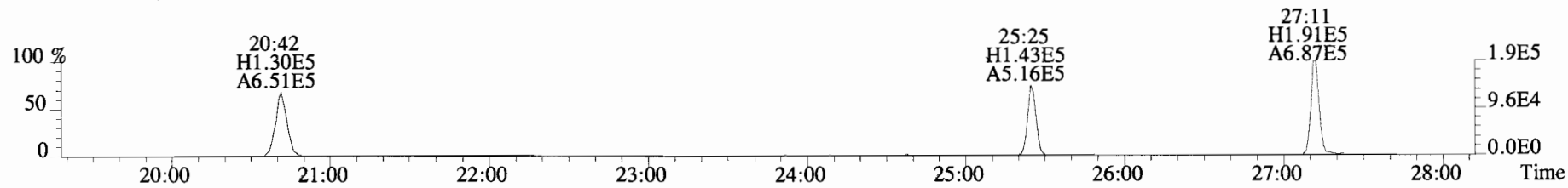
454.9728 F:4



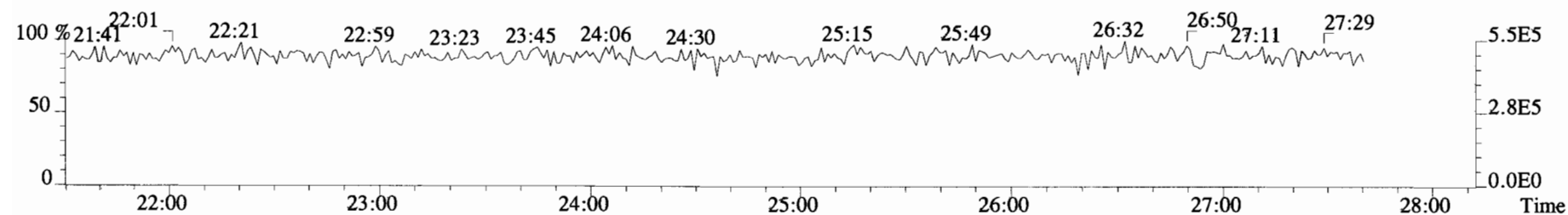
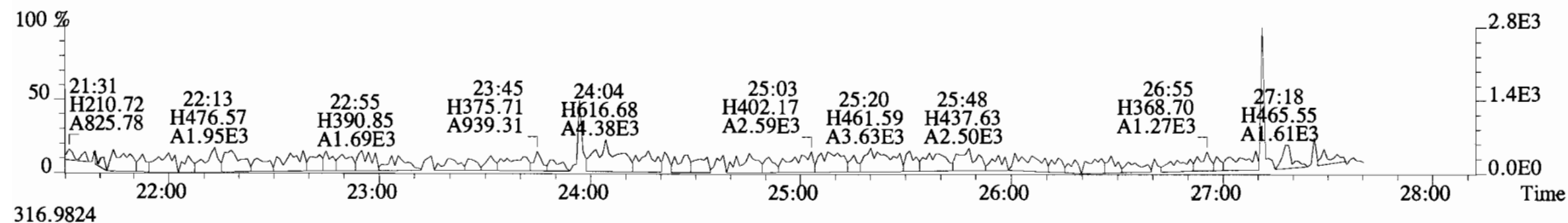
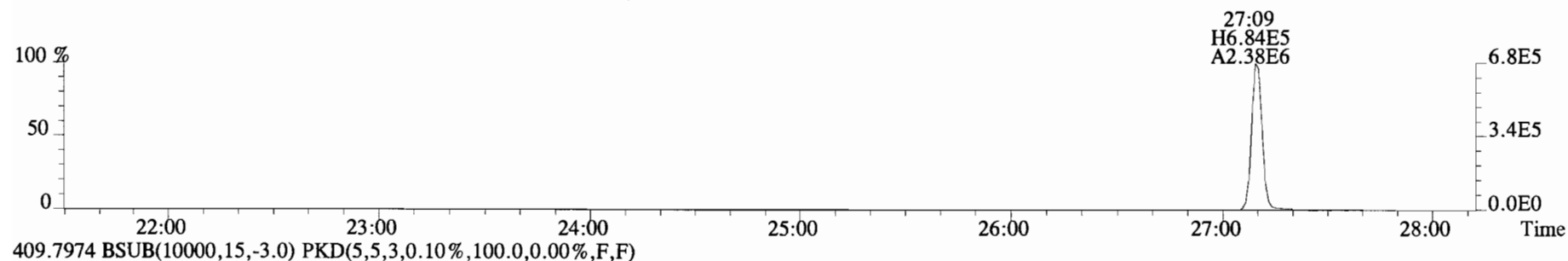
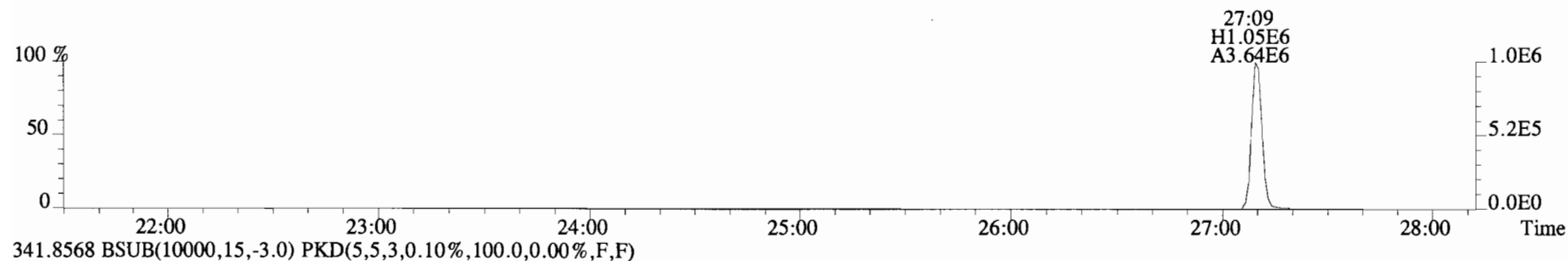
File:191108D1 #1-431 Acq: 8-NOV-2019 11:54:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191108D1-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



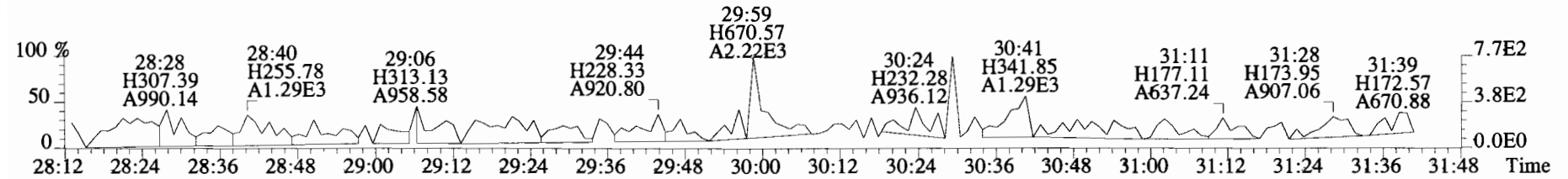
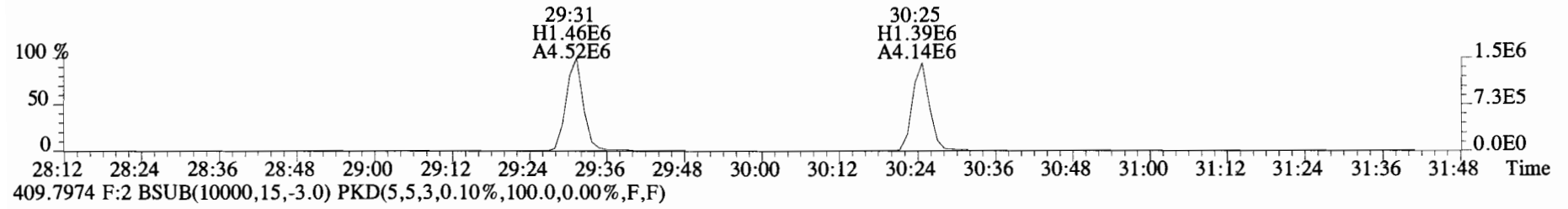
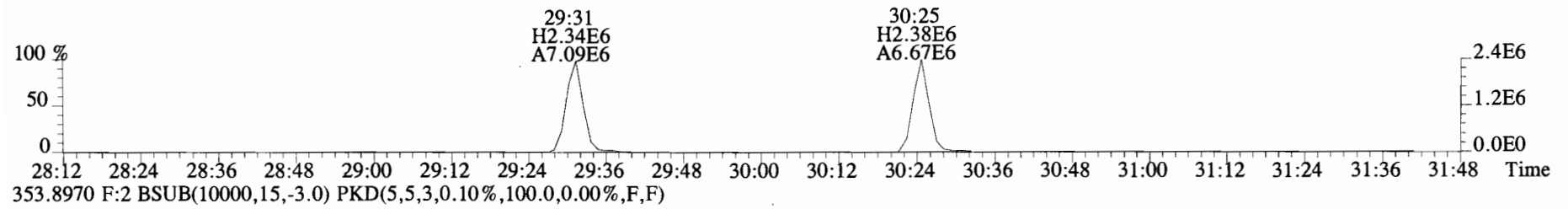
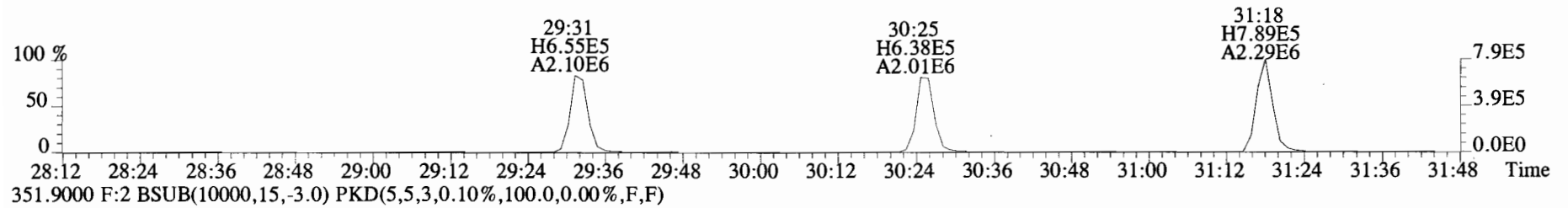
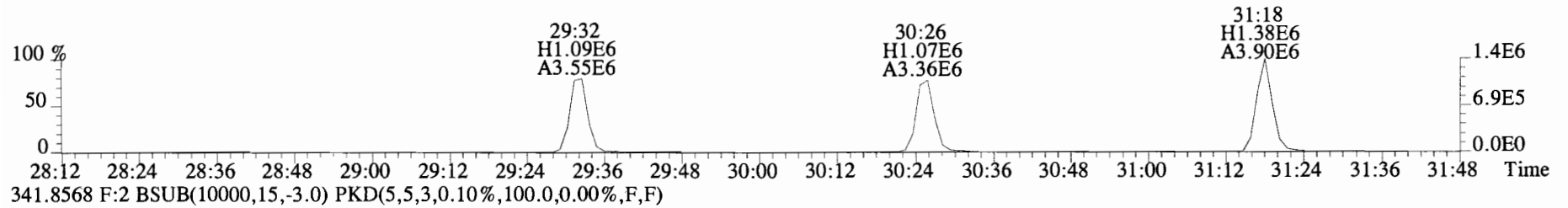
File:191108D1 #1-492 Acq: 8-NOV-2019 11:54:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191108D1-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



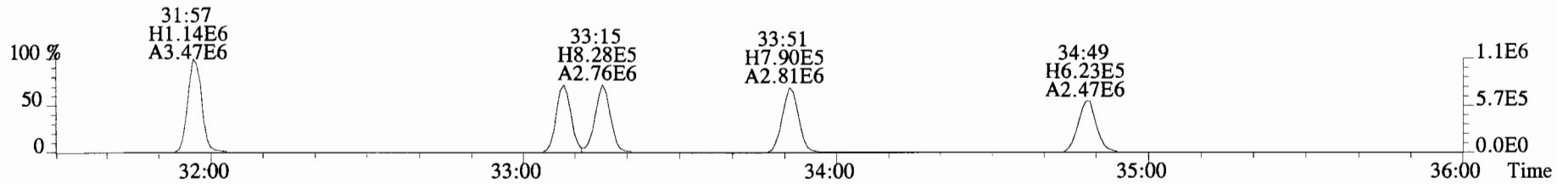
File:191108D1 #1-492 Acq: 8-NOV-2019 11:54:06 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Viata Analytical Laboratory VG7 Text:ST191108D1-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
 339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



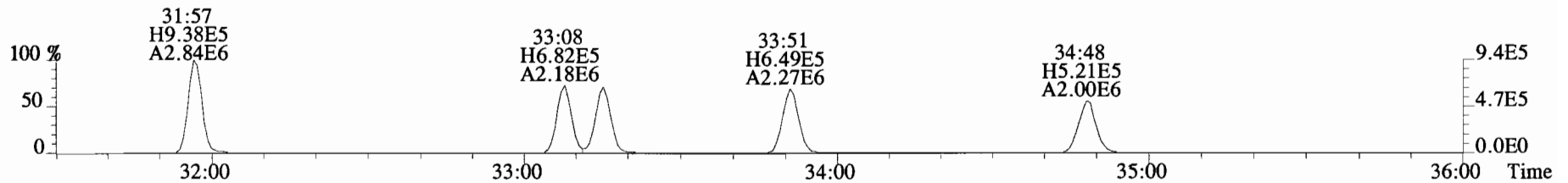
File:191108D1 #1-211 Acq: 8-NOV-2019 11:54:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191108D1-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



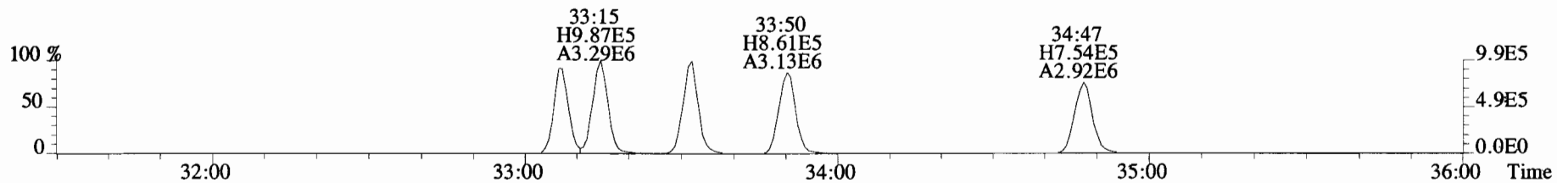
File:191108D1 #1-384 Acq: 8-NOV-2019 11:54:06 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191108D1-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
 373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



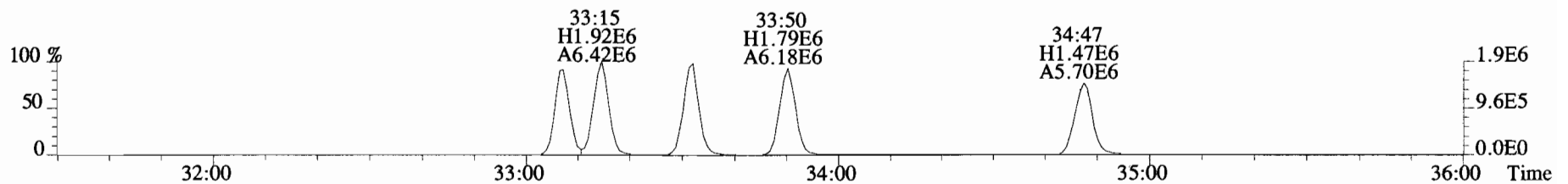
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



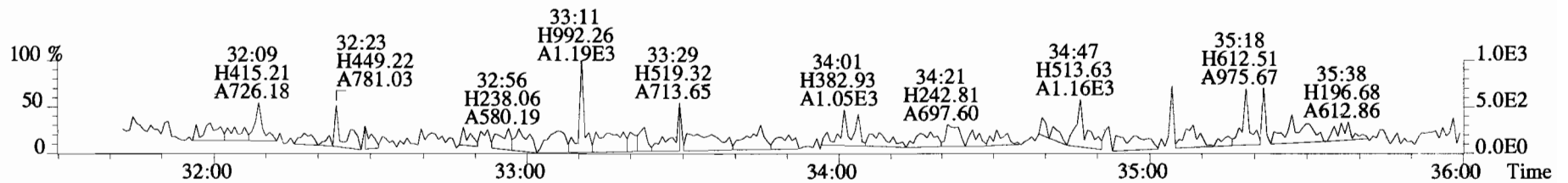
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



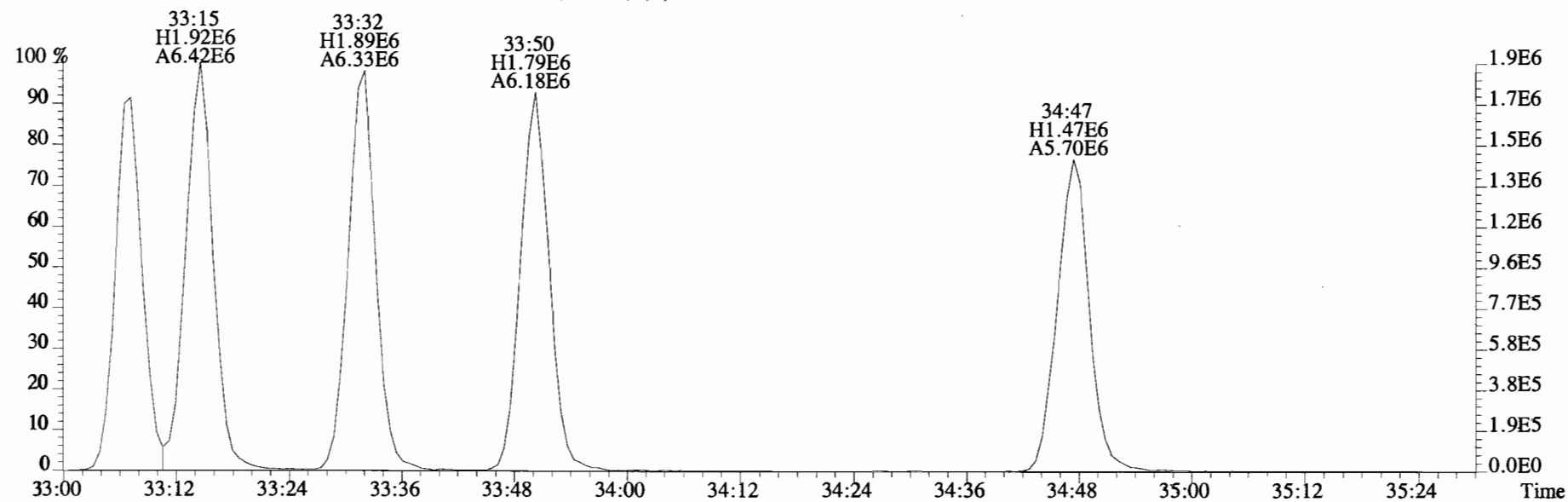
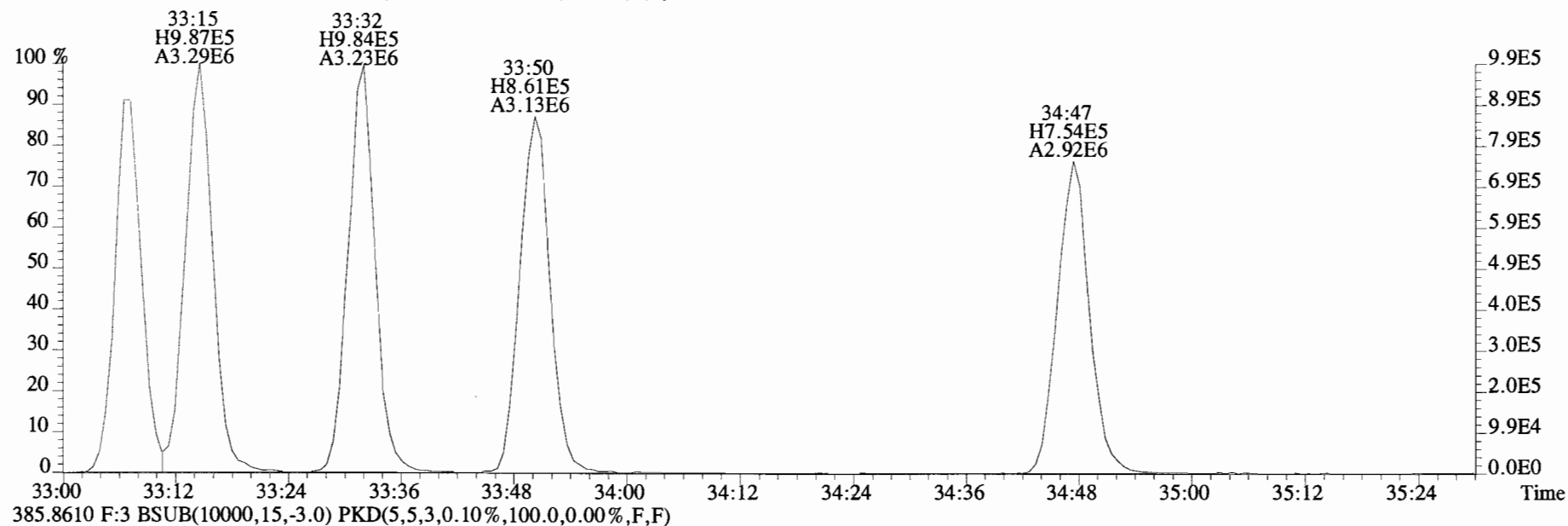
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

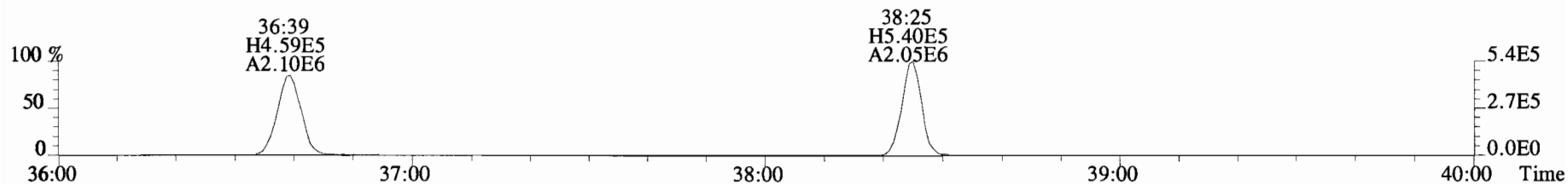


File:191108D1 #1-384 Acq: 8-NOV-2019 11:54:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata Analytical Laboratory VG7 Text:ST191108D1-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

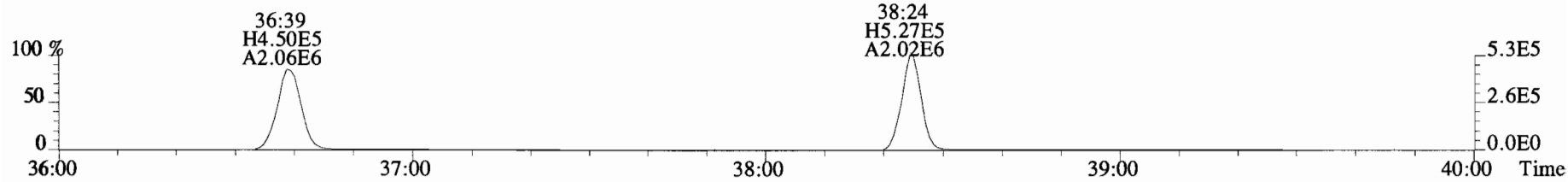




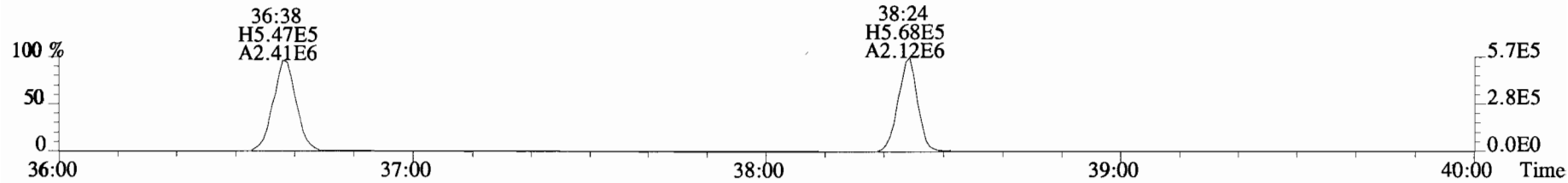
File:191108D1 #1-356 Acq: 8-NOV-2019 11:54:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191108D1-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



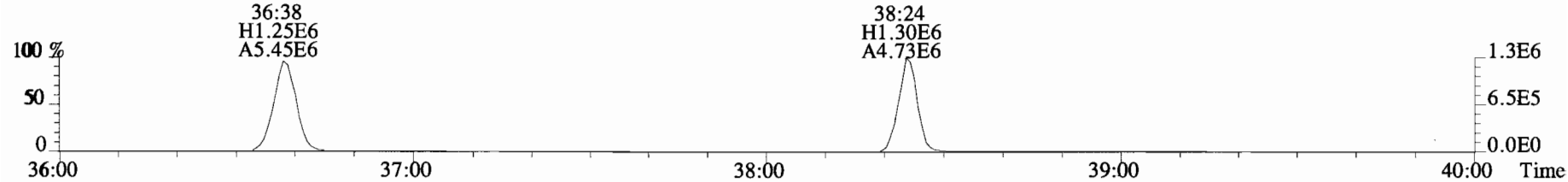
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



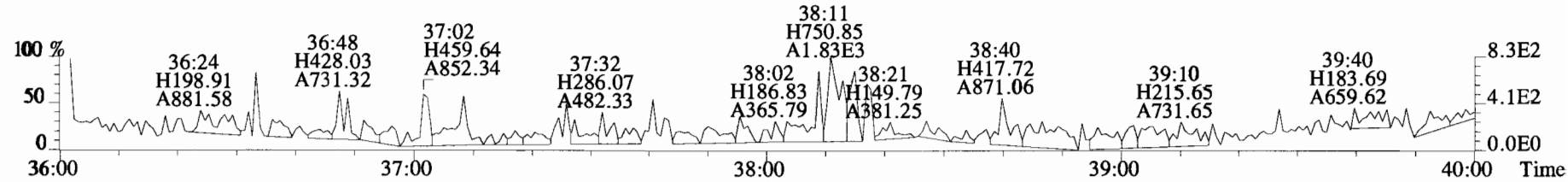
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



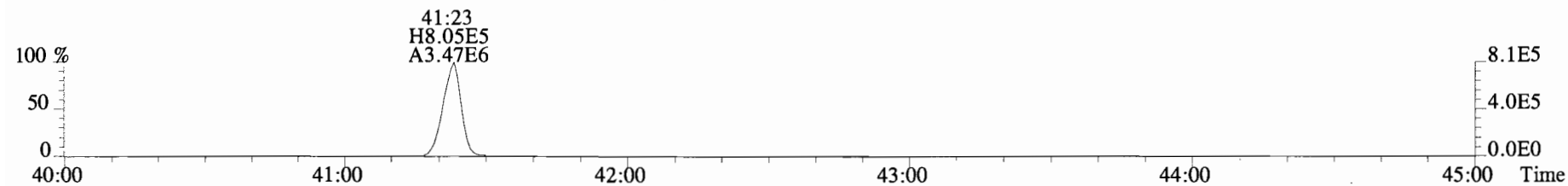
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



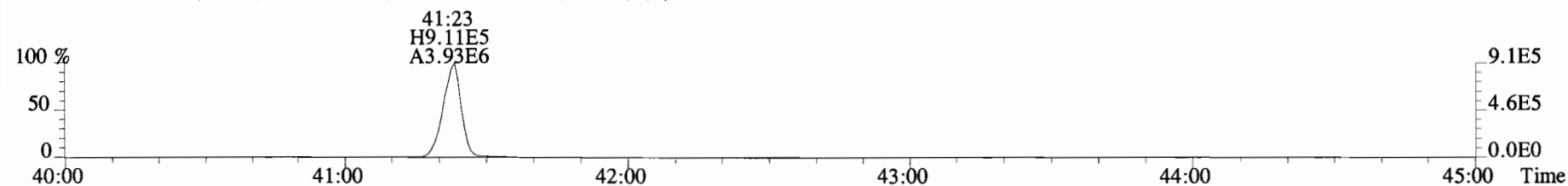
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



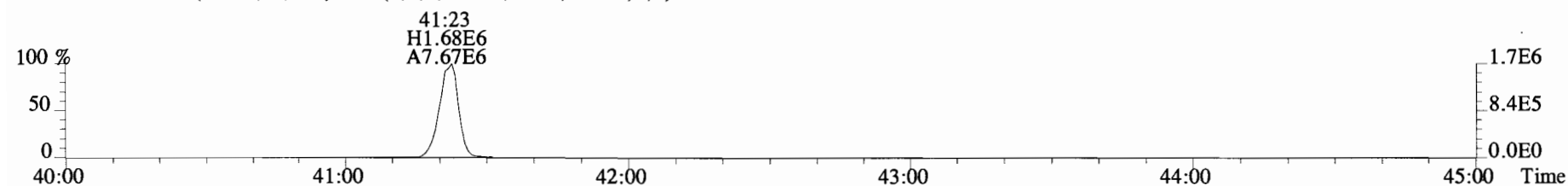
File:191108D1 #1-431 Acq: 8-NOV-2019 11:54:06 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Viata\_Analytical\_Laboratory\_VG7 Text:ST191108D1-1 1613 CS3 19C2204 Exp:OCDD\_DB5  
 441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



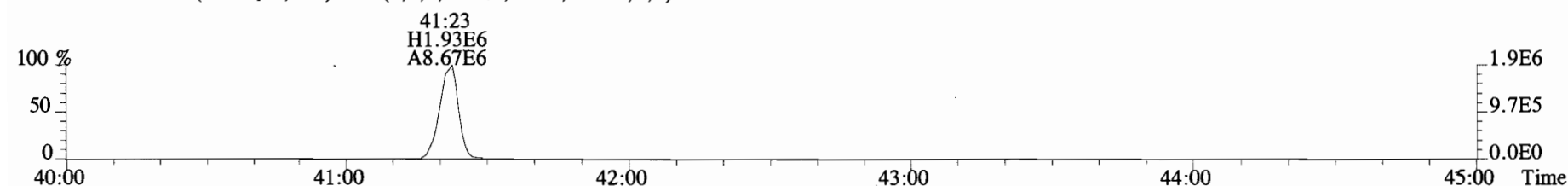
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



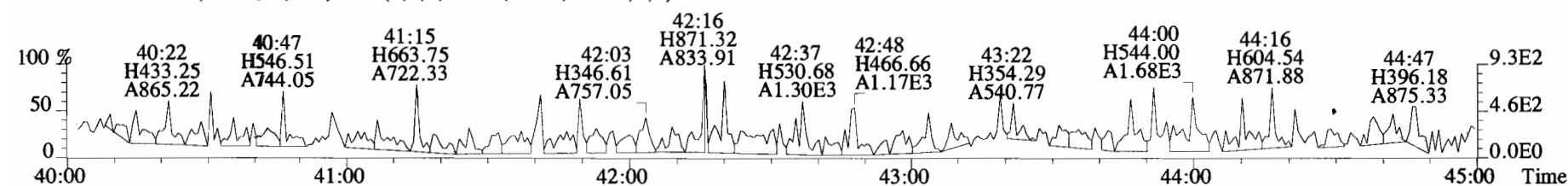
453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

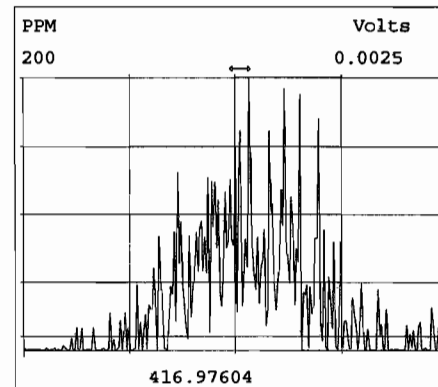
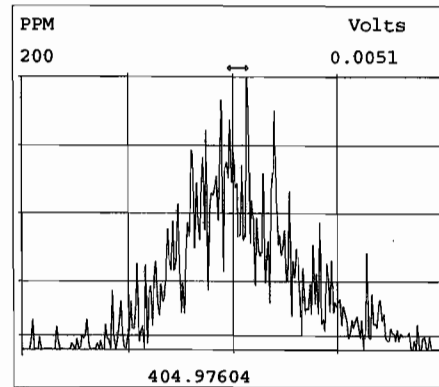
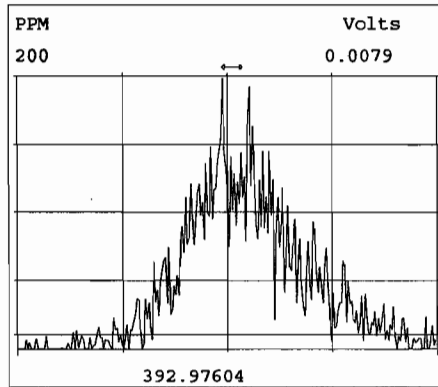
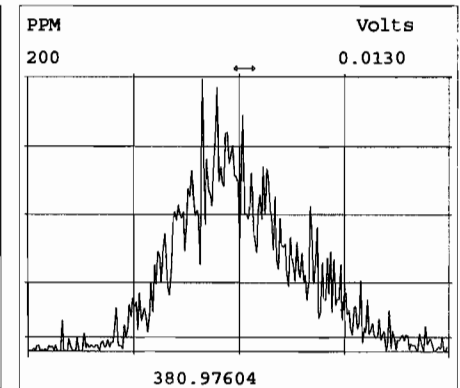
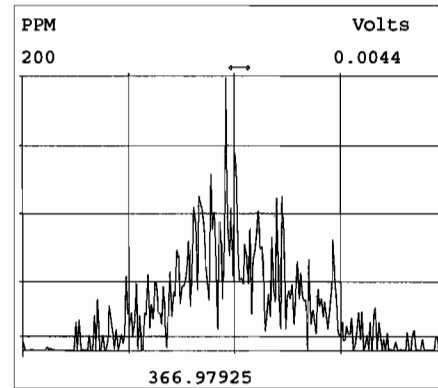
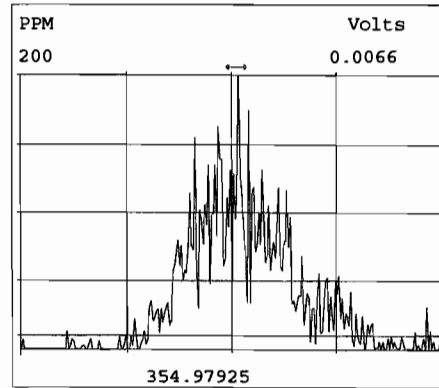
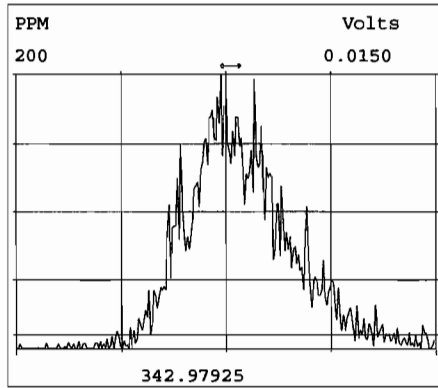
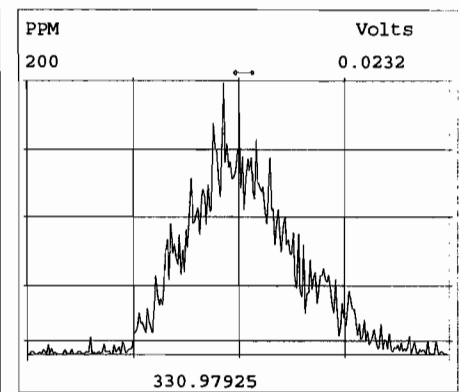
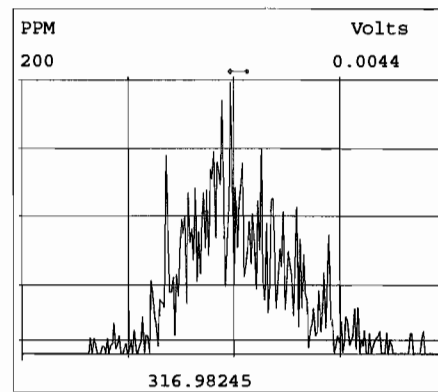
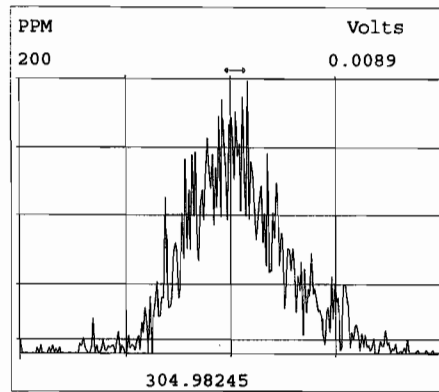
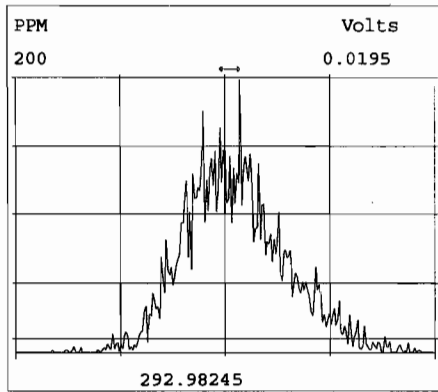


455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



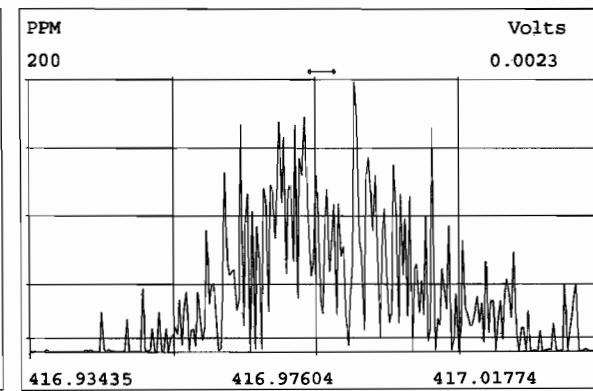
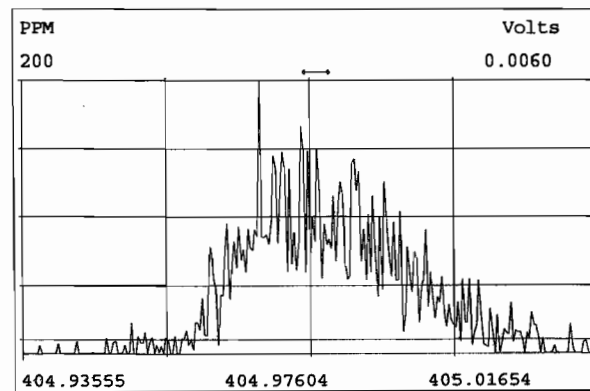
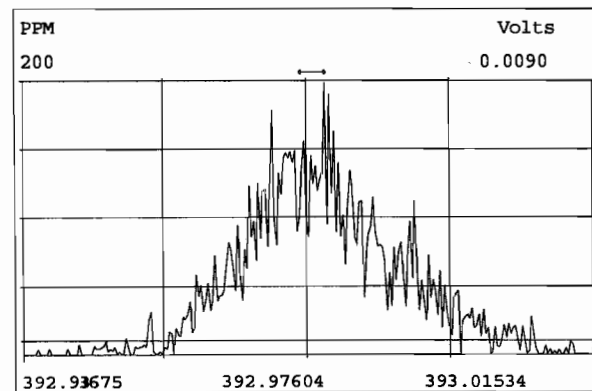
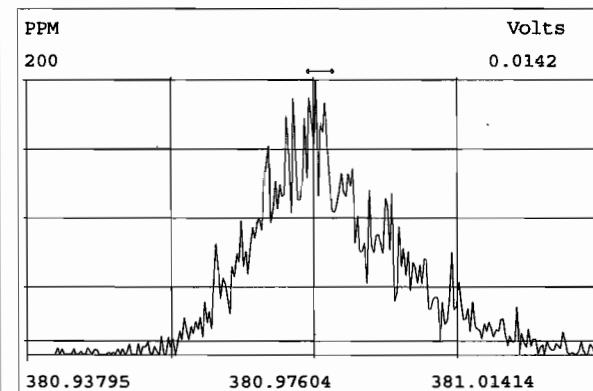
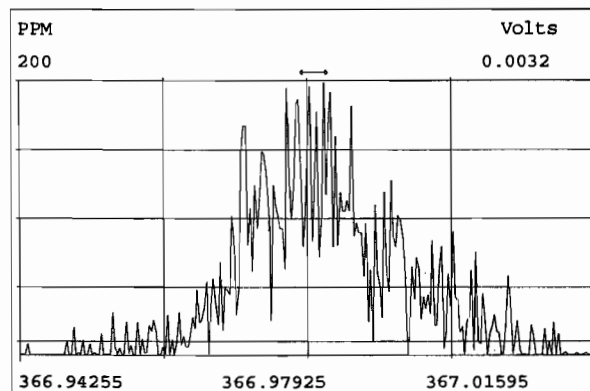
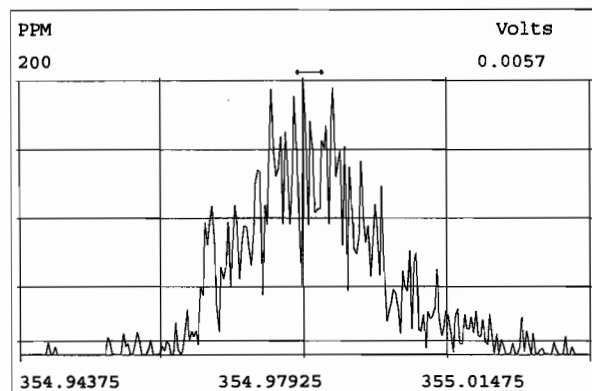
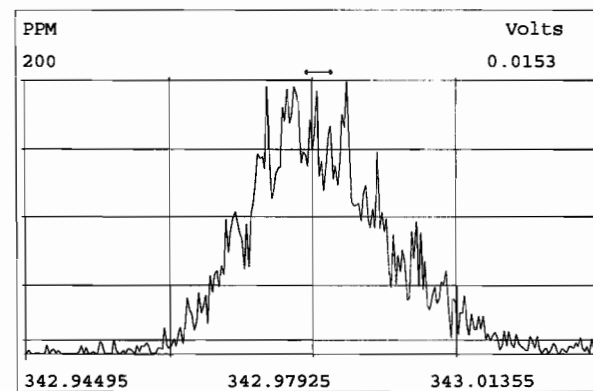
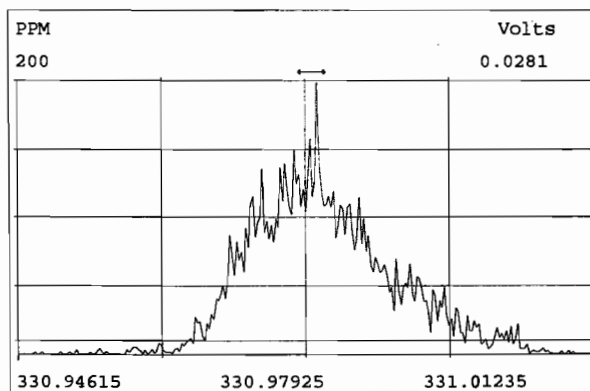
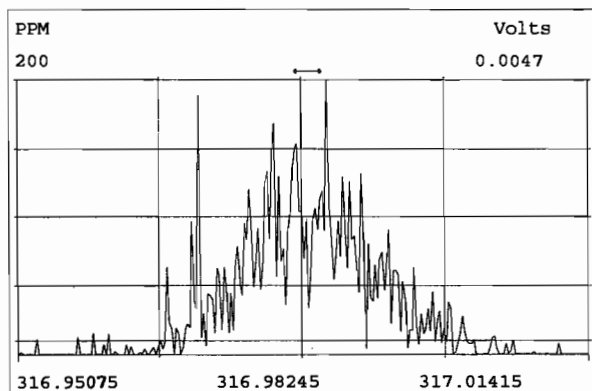
513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)





Peak Locate Examination: 9-NOV-2019:00:02 File:RES\_CHECK

Experiment:OCDD\_DB5 Function:2 Reference:PFK



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST191218K1-1

**Reviewed By:** GRB 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>IC</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>IP</u>	

**Mass resolution ≥**

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\191218K1\191218K1-1.qld

Last Altered: Thursday, December 19, 2019 09:55:43 Pacific Standard Time

Printed: Thursday, December 19, 2019 09:56:04 Pacific Standard Time

HC 12.19.19

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: 191218K1\_1, Date: 18-Dec-2019, Time: 17:33:49, ID: ST191218K1-1 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	2.44e4	2.62e5	0.76	NO	0.925	26.17	26.17	NO	1.001	1.001	10.086	101	NO
2	2 1,2,3,7,8-PeCDD	7.44e4	1.58e5	0.65	NO	0.905	31.31	31.31	NO	1.001	1.001	51.864	104	NO
3	3 1,2,3,4,7,8-HxCDD	6.56e4	1.19e5	1.29	NO	1.07	34.66	34.67	NO	1.000	1.001	51.672	103	NO
4	4 1,2,3,6,7,8-HxCDD	7.30e4	1.41e5	1.27	NO	0.967	34.76	34.77	NO	1.000	1.000	53.605	107	NO
5	5 1,2,3,7,8,9-HxCDD	6.36e4	1.27e5	1.26	NO	0.978	35.06	35.03	NO	1.001	1.000	51.135	102	NO
6	6 1,2,3,4,6,7,8-HpCDD	4.74e4	9.10e4	1.05	NO	1.04	38.54	38.55	NO	1.000	1.001	50.210	100	NO
7	7 OCDD	8.25e4	1.61e5	0.90	NO	0.972	41.81	41.82	NO	1.000	1.000	105.33	105	NO
8	8 2,3,7,8-TCDF	3.66e4	3.62e5	0.78	NO	0.938	25.18	25.19	NO	1.001	1.001	10.785	108	NO
9	9 1,2,3,7,8-PeCDF	1.27e5	2.50e5	1.59	NO	0.976	30.00	30.00	NO	1.001	1.001	51.930	104	NO
10	10 2,3,4,7,8-PeCDF	1.23e5	2.31e5	1.53	NO	1.00	31.02	30.99	NO	1.001	1.000	53.073	106	NO
11	11 1,2,3,4,7,8-HxCDF	1.05e5	1.67e5	1.29	NO	1.24	33.78	33.80	NO	1.000	1.001	50.758	102	NO
12	12 1,2,3,6,7,8-HxCDF	1.20e5	2.07e5	1.21	NO	1.10	33.91	33.92	NO	1.000	1.001	53.035	106	NO
13	13 2,3,4,6,7,8-HxCDF	1.14e5	1.81e5	1.28	NO	1.18	34.51	34.49	NO	1.001	1.001	53.291	107	NO
14	14 1,2,3,7,8,9-HxCDF	8.71e4	1.48e5	1.26	NO	1.07	35.36	35.37	NO	1.000	1.000	54.720	109	NO
15	15 1,2,3,4,6,7,8-HpCDF	8.53e4	1.44e5	1.02	NO	1.13	37.14	37.12	NO	1.001	1.000	52.481	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	6.48e4	9.69e4	1.00	NO	1.26	39.15	39.16	NO	1.000	1.000	53.041	106	NO
17	17 OCDF	1.13e5	2.17e5	0.90	NO	1.10	42.00	42.01	NO	1.000	1.000	94.527	94.5	NO
18	18 13C-2,3,7,8-TCDD	2.62e5	2.47e5	0.78	NO	1.05	26.15	26.14	NO	1.027	1.027	101.03	101	NO
19	19 13C-1,2,3,7,8-PeCDD	1.58e5	2.47e5	0.64	NO	0.743	31.29	31.29	NO	1.230	1.229	86.388	86.4	NO
20	20 13C-1,2,3,4,7,8-HxCDD	1.19e5	2.13e5	1.26	NO	0.646	34.64	34.65	NO	1.014	1.014	86.382	86.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.41e5	2.13e5	1.24	NO	0.777	34.73	34.76	NO	1.017	1.017	85.169	85.2	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.27e5	2.13e5	1.15	NO	0.659	35.01	35.02	NO	1.025	1.025	90.688	90.7	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.10e4	2.13e5	1.06	NO	0.534	38.51	38.53	NO	1.127	1.128	80.142	80.1	NO
24	24 13C-OCDD	1.61e5	2.13e5	0.88	NO	0.470	41.79	41.81	NO	1.223	1.224	161.20	80.6	NO
25	25 13C-2,3,7,8-TCDF	3.62e5	3.83e5	0.72	NO	0.977	25.16	25.16	NO	0.989	0.989	96.665	96.7	NO
26	26 13C-1,2,3,7,8-PeCDF	2.50e5	3.83e5	1.48	NO	0.778	29.98	29.98	NO	1.178	1.178	83.829	83.8	NO
27	27 13C-2,3,4,7,8-PeCDF	2.31e5	3.83e5	1.55	NO	0.750	30.97	30.99	NO	1.217	1.218	80.244	80.2	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.67e5	2.13e5	0.52	NO	0.845	33.77	33.78	NO	0.989	0.989	92.801	92.8	NO
29	29 13C-1,2,3,6,7,8-HxCDF	2.07e5	2.13e5	0.52	NO	1.03	33.89	33.90	NO	0.992	0.992	95.002	95.0	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.81e5	2.13e5	0.50	NO	0.893	34.46	34.47	NO	1.009	1.009	95.288	95.3	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.48e5	2.13e5	0.52	NO	0.734	35.37	35.36	NO	1.035	1.035	94.970	95.0	NO

Dataset: U:\VG11.PRO\Results\191218K1\191218K1-1.qld

Last Altered: Thursday, December 19, 2019 09:55:43 Pacific Standard Time

Printed: Thursday, December 19, 2019 09:56:04 Pacific Standard Time

Name: 191218K1\_1, Date: 18-Dec-2019, Time: 17:33:49, ID: ST191218K1-1 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	1.44e5	2.13e5	0.43	NO	0.754	37.08	37.10	NO	1.085	1.086	89.722	89.7	NO
33	13C-1,2,3,4,7,8,9-HpCDF	9.69e4	2.13e5	0.44	NO	0.539	39.11	39.15	NO	1.145	1.146	84.560	84.6	NO
34	13C-OCDF	2.17e5	2.13e5	0.91	NO	0.593	41.97	42.00	NO	1.229	1.229	172.22	86.1	NO
35	37Cl-2,3,7,8-TCDD	2.57e4	2.47e5			1.07	26.17	26.17	NO	1.028	1.028	9.7287	97.3	NO
36	13C-1,2,3,4-TCDD	2.47e5	2.47e5	0.77	NO	1.00	25.45	25.45	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	3.83e5	3.83e5	0.74	NO	1.00	23.55	23.54	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	2.13e5	2.13e5	0.50	NO	1.00	34.16	34.16	NO	1.000	1.000	100.00	100	NO

Dataset: Untitled

Last Altered: Thursday, December 19, 2019 07:42:21 Pacific Standard Time  
Printed: Thursday, December 19, 2019 07:48:47 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	191218K1_1	ST191218K1-1 1613 CS3 19C2204	18-Dec-19	17:33:49
2	191218K1_2	SOLVENT BLANK	18-Dec-19	18:22:04
3	191218K1_3	1903739-02 PDI-026SC-A-12-12.6-191014 13....	18-Dec-19	19:10:06
4	191218K1_4	1903739-03 PDI-077SC-A-14-15-191014 13.13	18-Dec-19	19:57:23
5	191218K1_5	1903739-04 PDI-077SC-A-15-16-191014 12.51	18-Dec-19	20:45:44
6	191218K1_6	1903739-05 PDI-079SC-A-11-12-191014 13.37	18-Dec-19	21:34:05
7	191218K1_7	1903739-06 PDI-079SC-A-12-13.3-191014 13....	18-Dec-19	22:23:46
8	191218K1_8	1903741-01 PDI-049SC-A-14-15-191015 14.25	18-Dec-19	23:11:52
9	191218K1_9	1903741-02 PDI-049SC-A-15-15.5-191015 13....	18-Dec-19	23:59:08
10	191218K1_10	1903741-03 PDI-052SC-A-11-12-191015 14.96	19-Dec-19	00:47:28
11	191218K1_11	1903741-04 PDI-052SC-A-12-13.4-191015 13....	19-Dec-19	01:37:11
12	191218K1_12	1903741-05 PDI-055SC-A-11-12-191015 14.32	19-Dec-19	02:25:04
13	191218K1_13	1903741-06 PDI-055SC-A-12-13.1-191015 13....	19-Dec-19	03:12:27



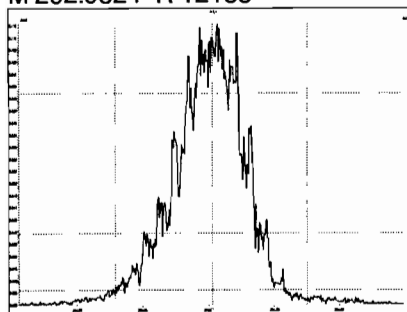
Experiment Calibration Report

MassLynx 4.1 SCN815

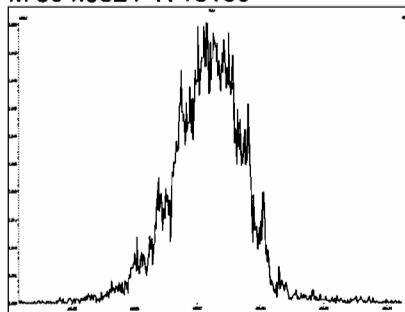
File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, December 18, 2019 17:27:06 Pacific Standard Time

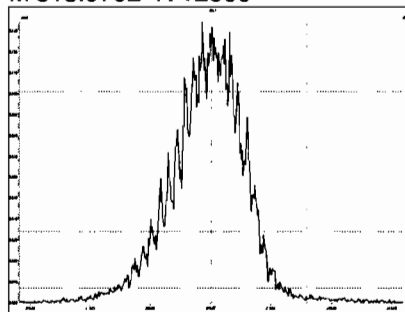
M 292.9824 R 12133



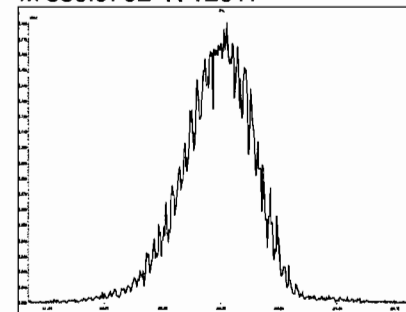
M 304.9824 R 13159



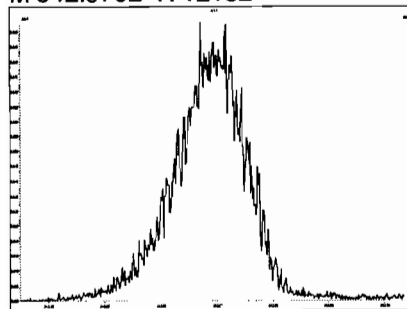
M 318.9792 R 12500



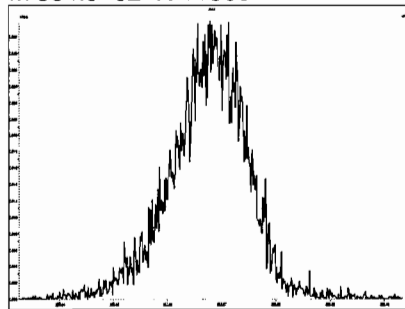
M 330.9792 R 12017



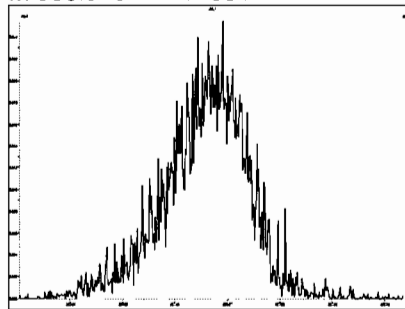
M 342.9792 R 12132



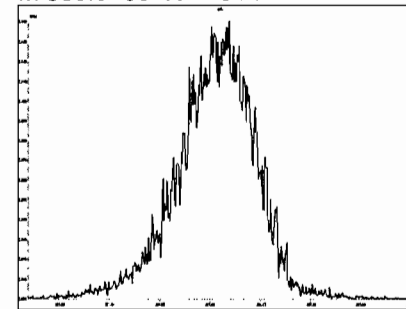
M 354.9792 R 11363



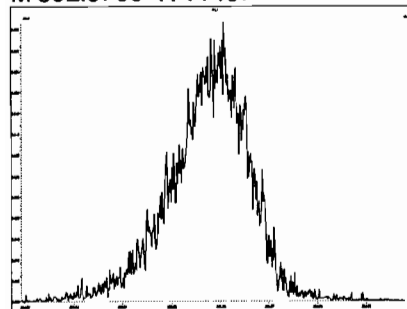
M 366.9792 R 11361



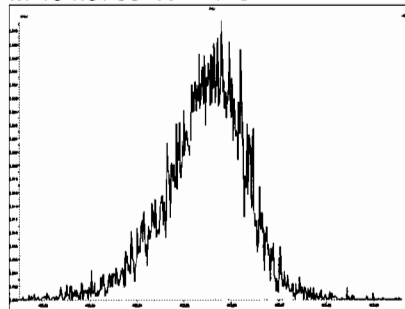
M 380.9760 R 11014



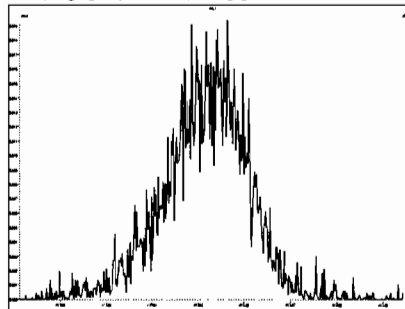
M 392.9760 R 11467



M 404.9760 R 11413



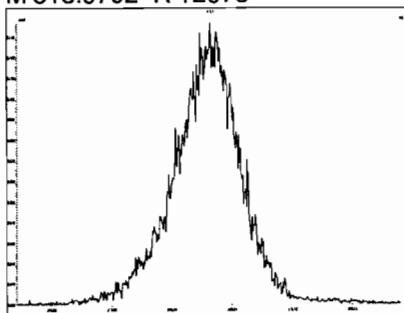
M 416.9760 R 12255



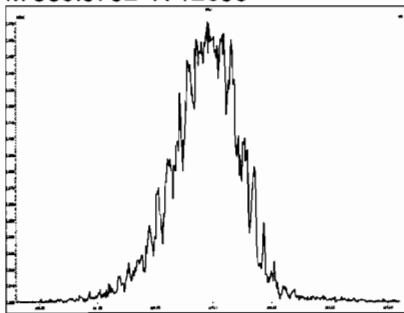
File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, December 18, 2019 17:27:50 Pacific Standard Time

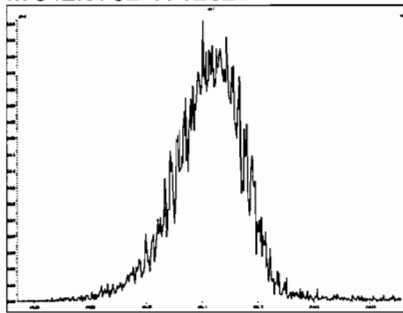
M 318.9792 R 12078



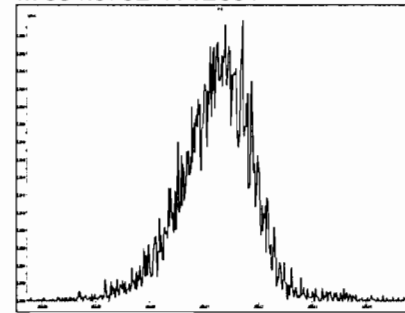
M 330.9792 R 12690



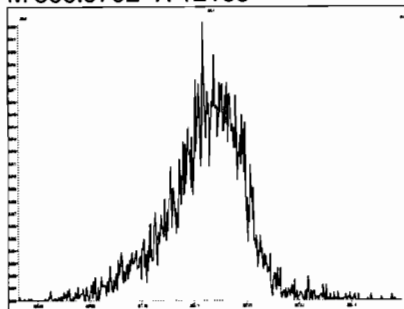
M 342.9792 R 12624



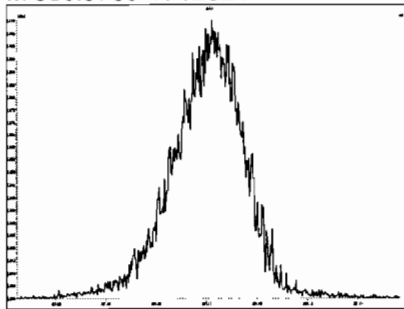
M 354.9792 R 12691



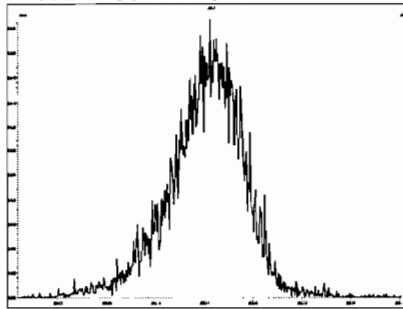
M 366.9792 R 12135



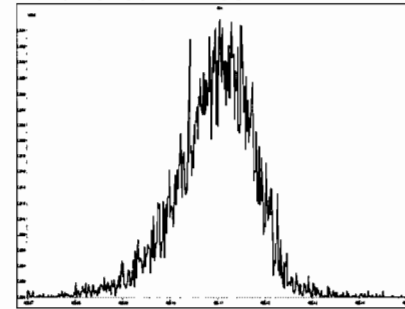
M 380.9760 R 12624



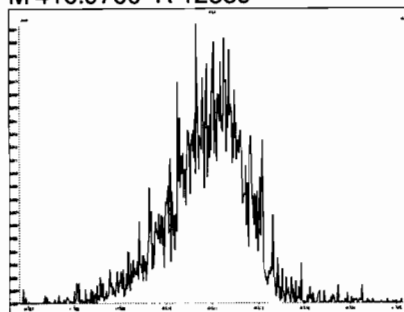
M 392.9760 R 12316



M 404.9760 R 12952



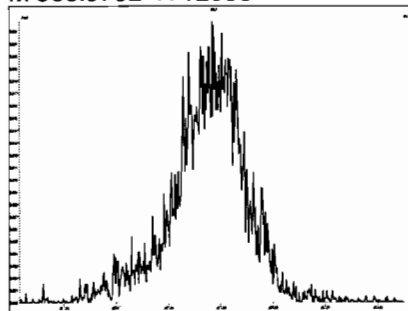
M 416.9760 R 12889



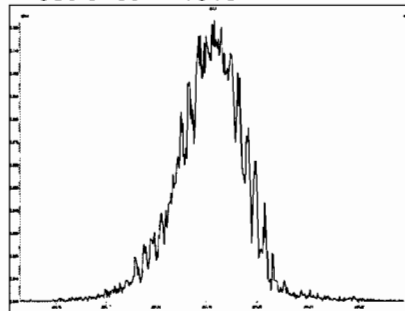
File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, December 18, 2019 17:28:41 Pacific Standard Time

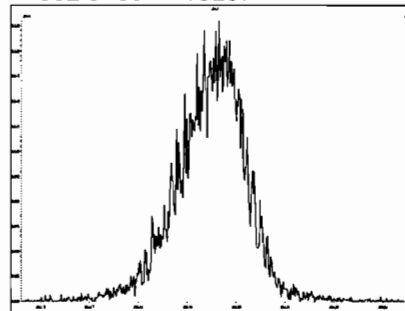
M 366.9792 R 12955



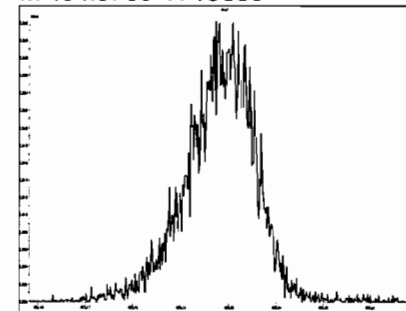
M 380.9760 R 13158



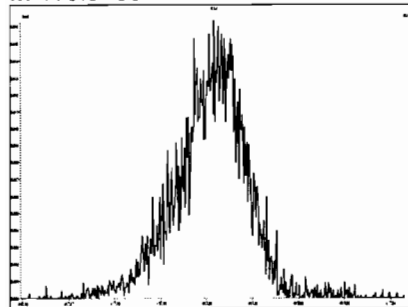
M 392.9760 R 13297



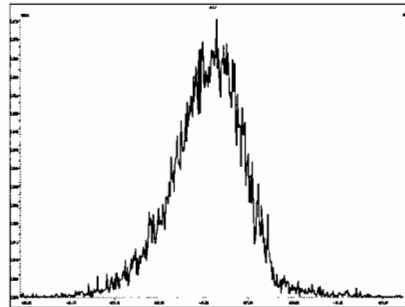
M 404.9760 R 13886



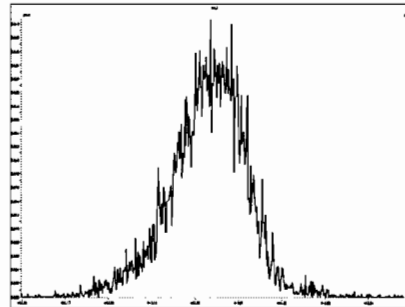
M 416.9760 R 12954



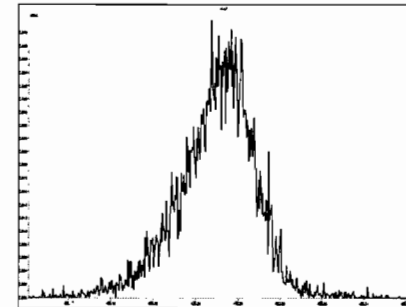
M 430.9728 R 12886



M 442.9728 R 11466



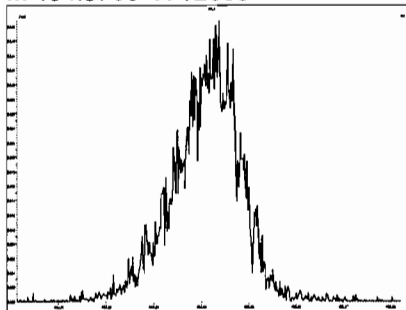
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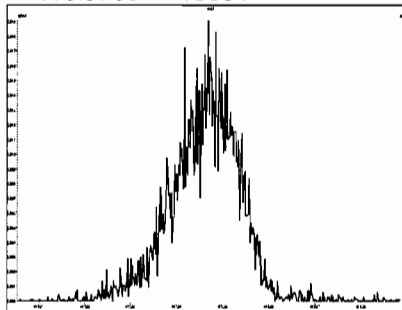
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Printed: Wednesday, December 18, 2019 17:29:22 Pacific Standard Time

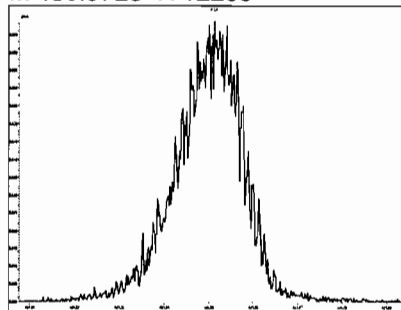
M 404.9760 R 12689



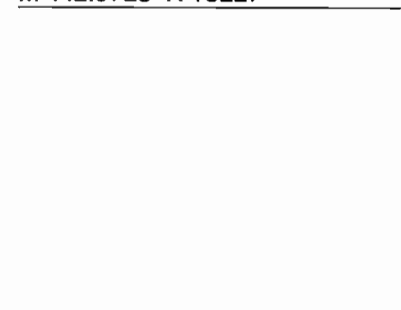
M 416.9760 R 13891



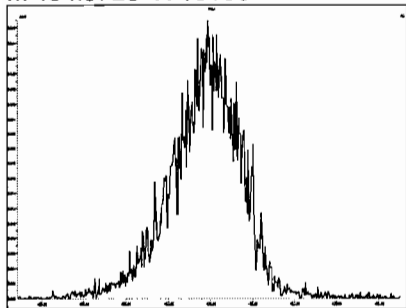
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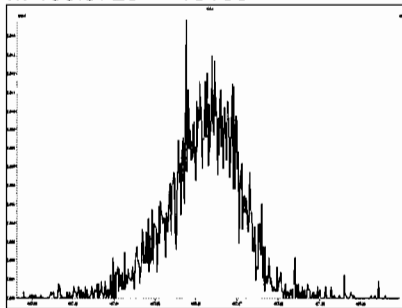
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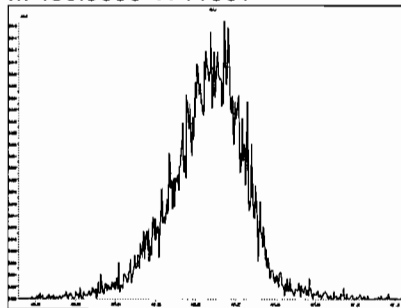
M 454.9728 R 13156



M 466.9728 R 13158



M 480.9696 R 11961



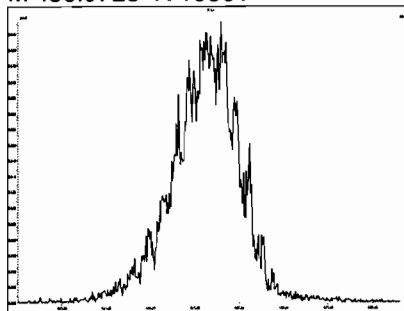
Experiment Calibration Report

MassLynx 4.1 SCN815

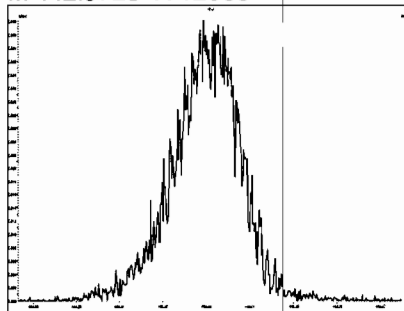
File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, December 18, 2019 17:30:07 Pacific Standard Time

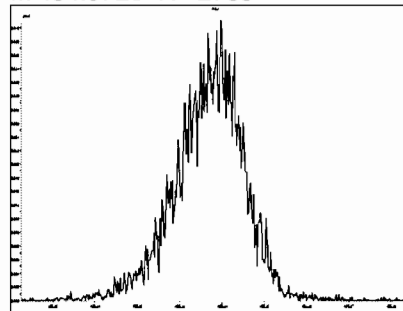
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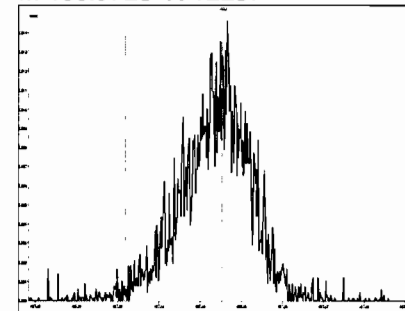
M 442.9728 R 12955



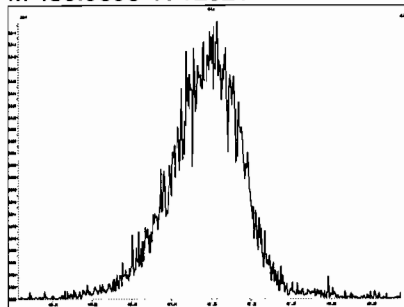
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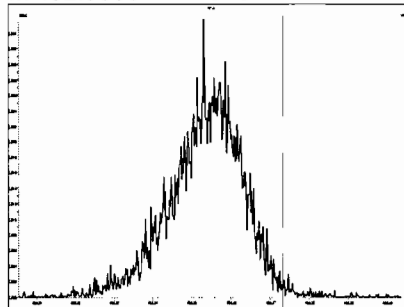
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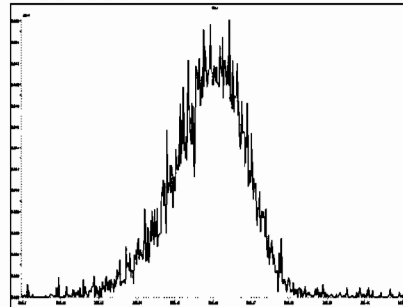
M 480.9696 R 12021



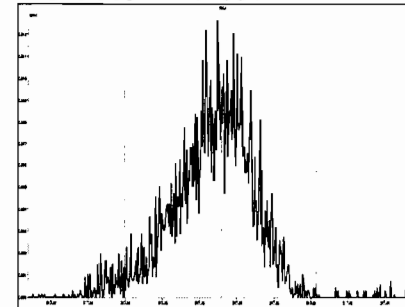
M 492.9696 R 12316



M 504.9696 R 11847



M 516.9697 R 11684



Dataset: U:\VG11.PRO\Results\191218K1\191218K1-CPSM.qld

Last Altered: Thursday, December 19, 2019 09:50:13 Pacific Standard Time

Printed: Thursday, December 19, 2019 09:50:41 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: 191218K1\_1, Date: 18-Dec-2019, Time: 17:33:49, ID: ST191218K1-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

#	Name	RT
1	1,3,6,8-TCDD (First)	21.83
2	1,2,8,9-TCDD (Last)	27.19
3	1,2,4,7,9-PeCDD (First)	29.06
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)	37.51
8	1,2,3,4,6,7,8-HpCDD (Last)	38.55
9	1,3,6,8-TCDF (First)	19.76
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)	37.12
16	1,2,3,4,7,8,9-HpCDF (Last)	39.16

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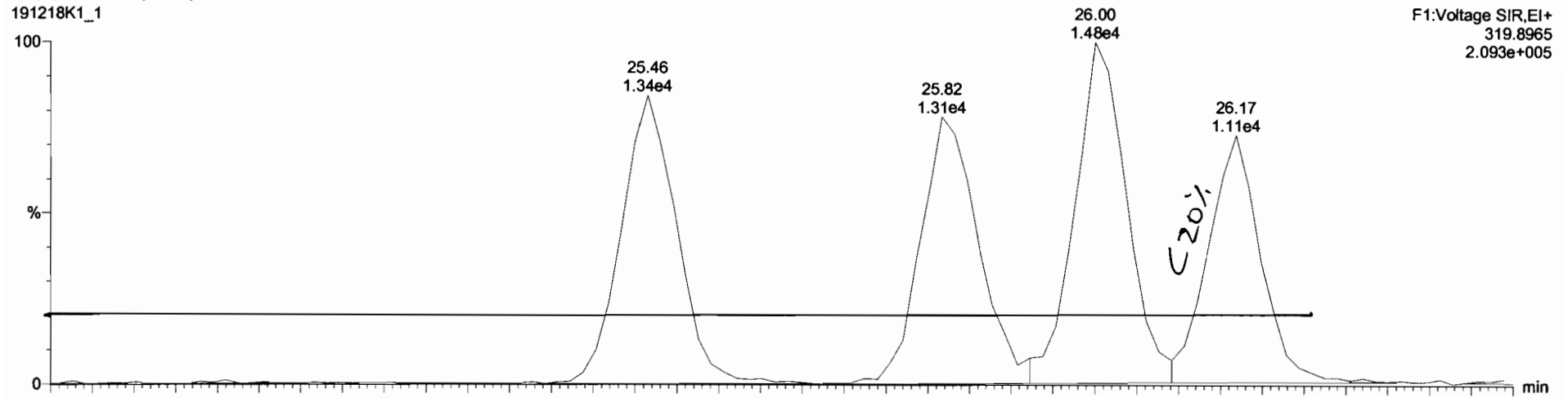
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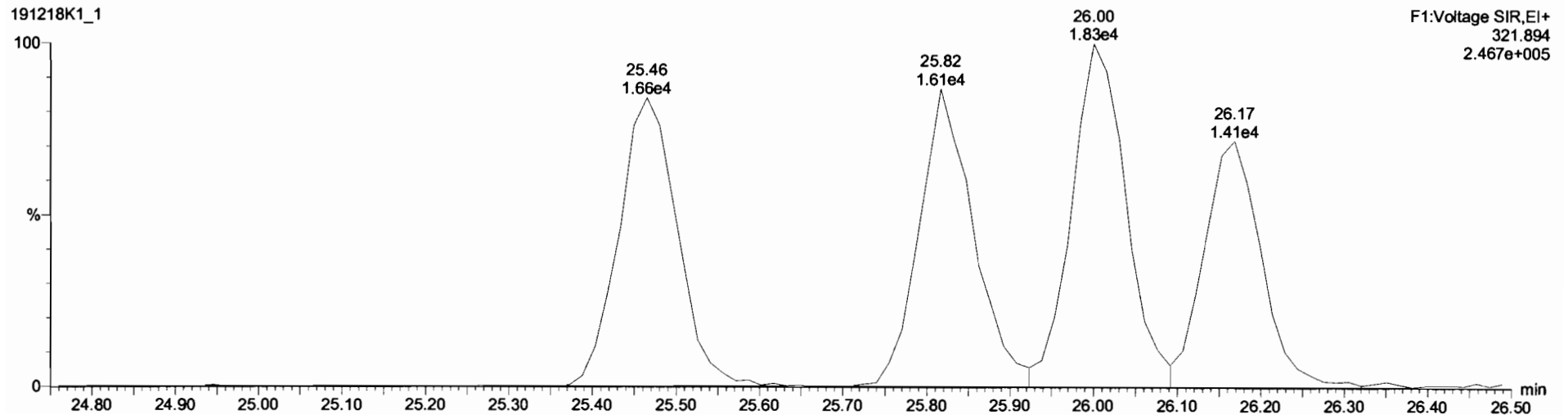
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1,3,6,8-TCDD (First)

191218K1\_1



191218K1\_1



Dataset: Untitled

Last Altered: Thursday, December 19, 2019 07:42:21 Pacific Standard Time

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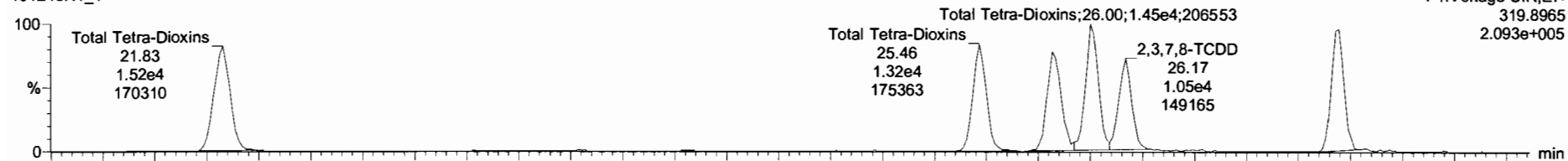
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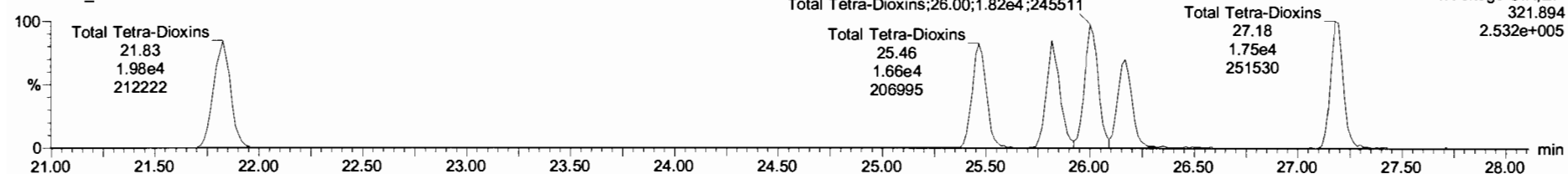
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**2,3,7,8-TCDD**

191218K1\_1

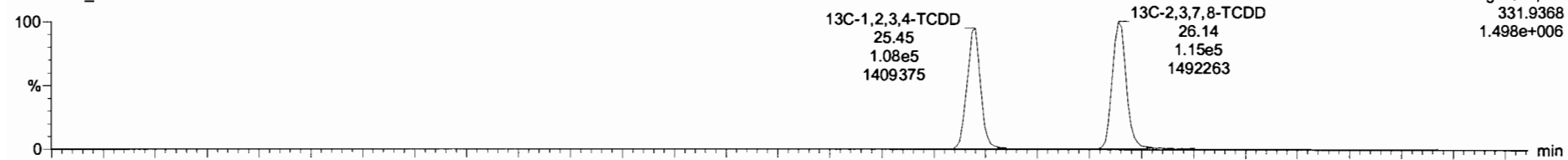


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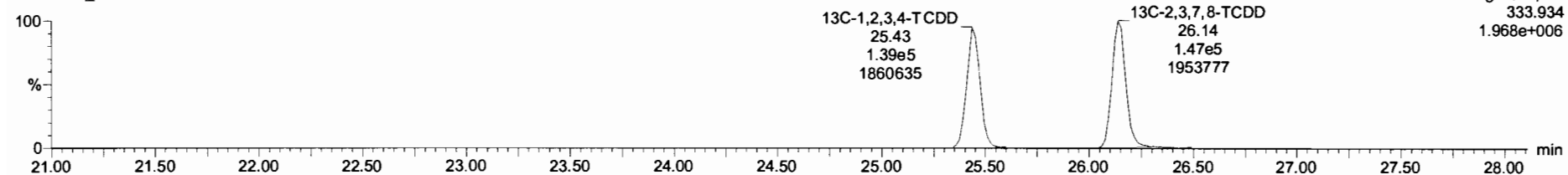


**13C-2,3,7,8-TCDD**

191218K1\_1



191218K1\_1





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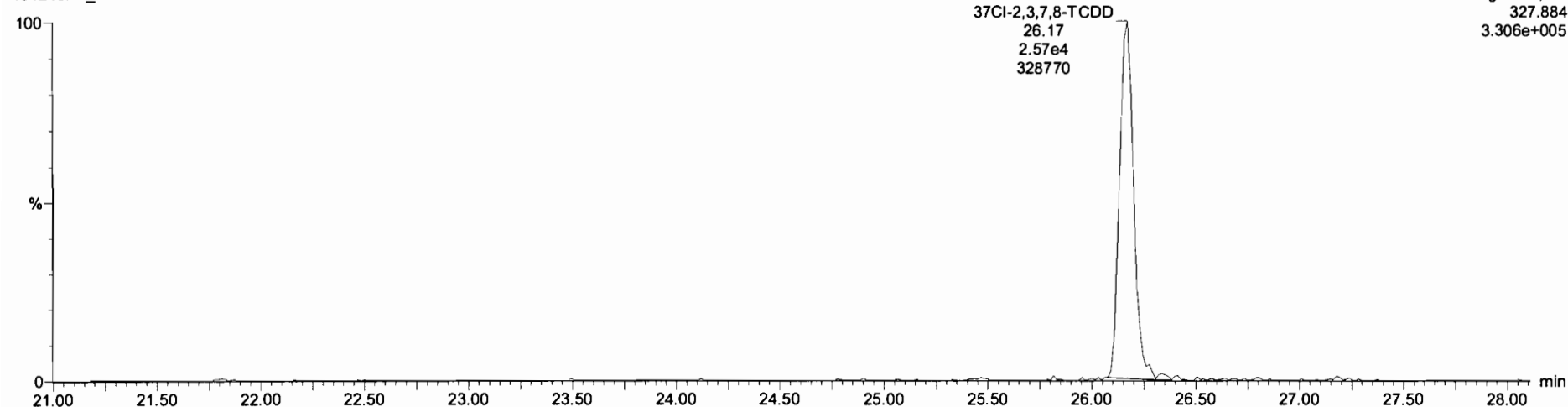
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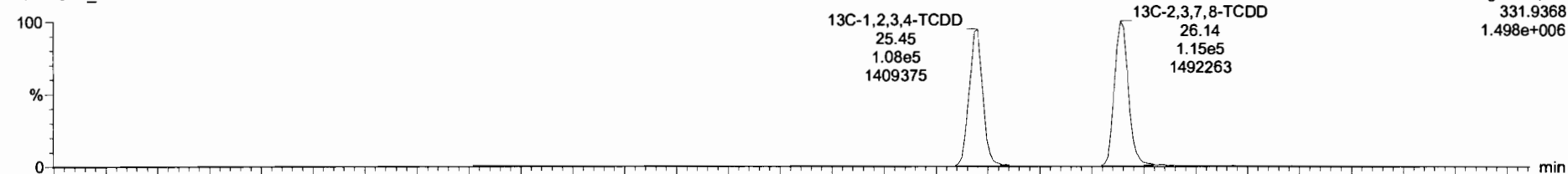
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191218K1\_1

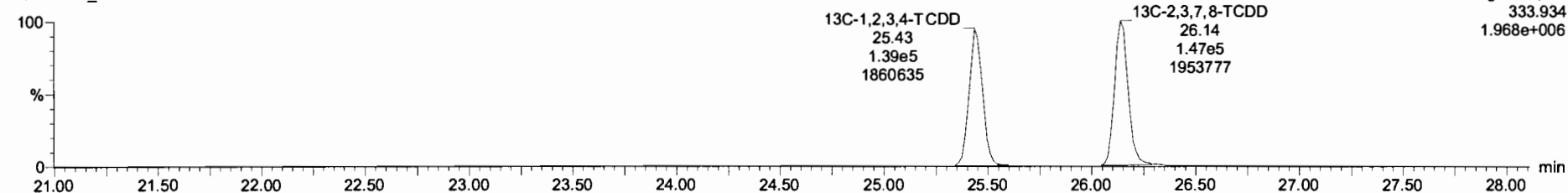


**13C-1,2,3,4-TCDD**

191218K1\_1



191218K1\_1



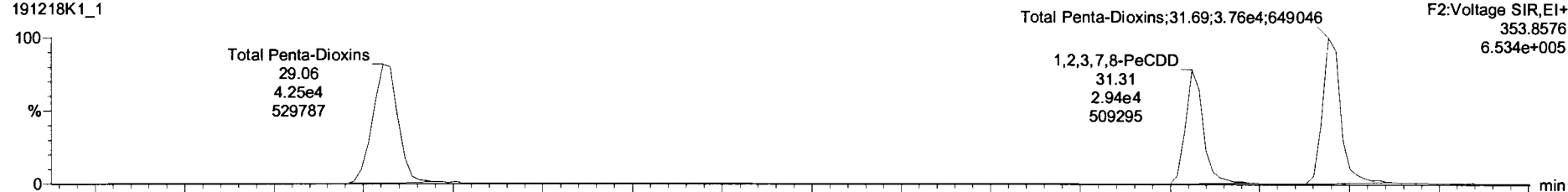
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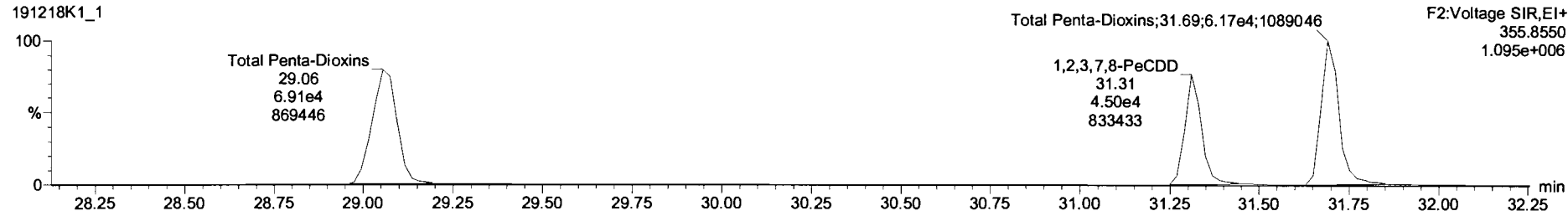
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**1,2,3,7,8-PeCDD**

191218K1\_1

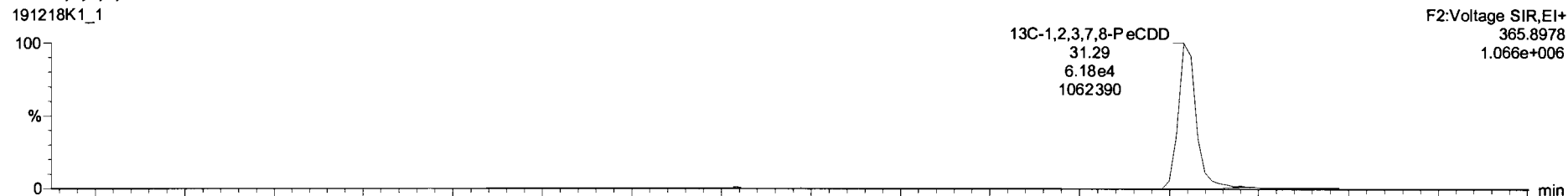


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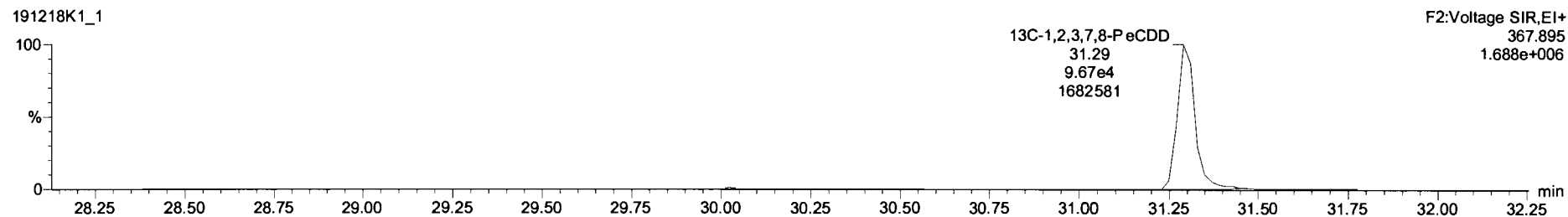


**13C-1,2,3,7,8-PeCDD**

191218K1\_1



191218K1\_1



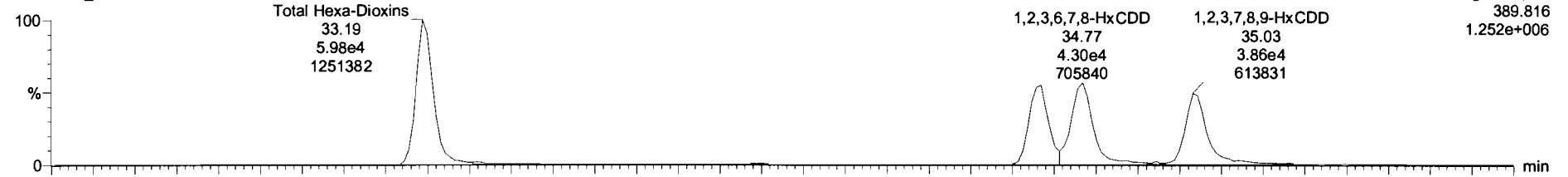
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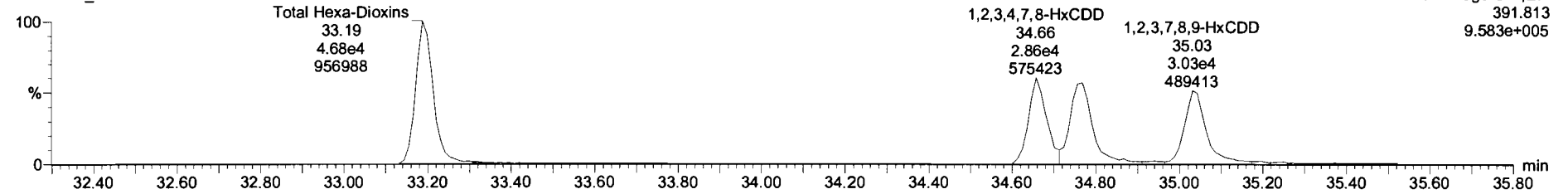
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**1,2,3,4,7,8-HxCDD**

191218K1\_1

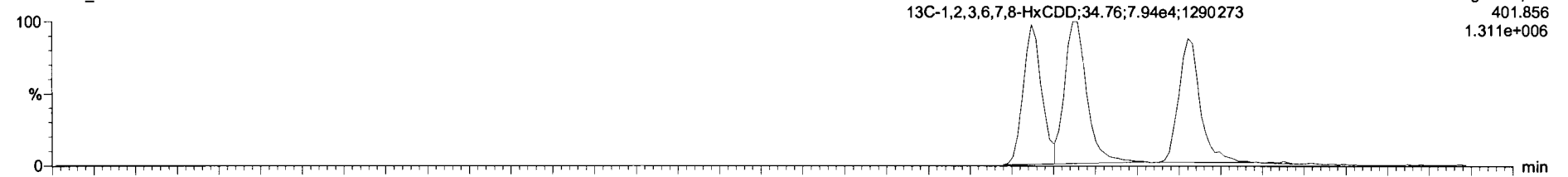


191218K1\_1

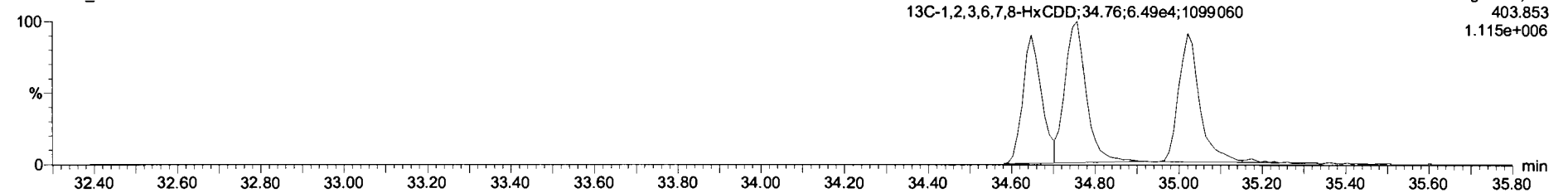


**13C-1,2,3,4,7,8-HxCDD**

191218K1\_1

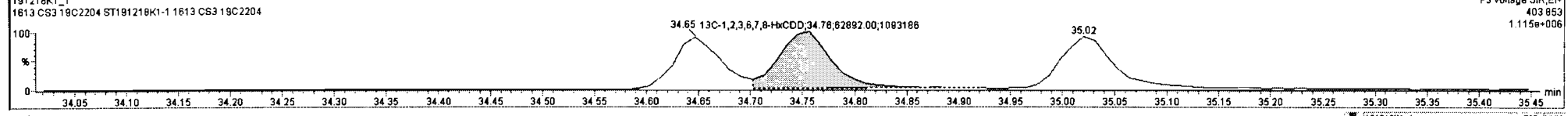
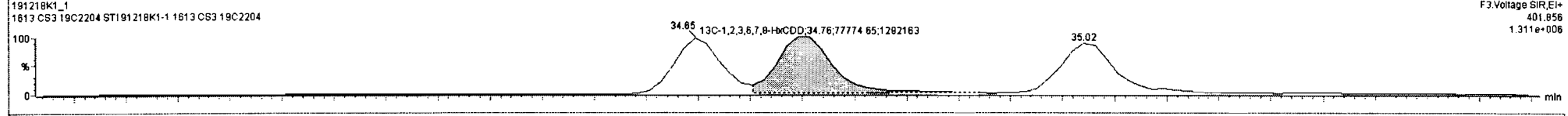
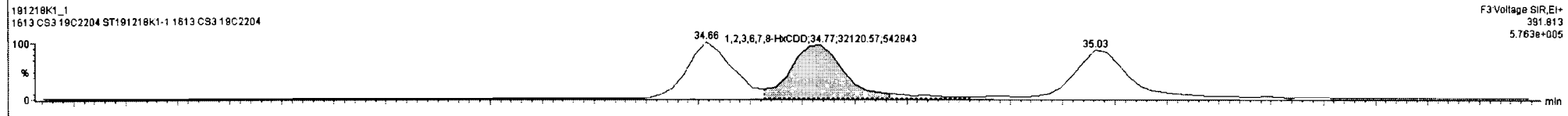
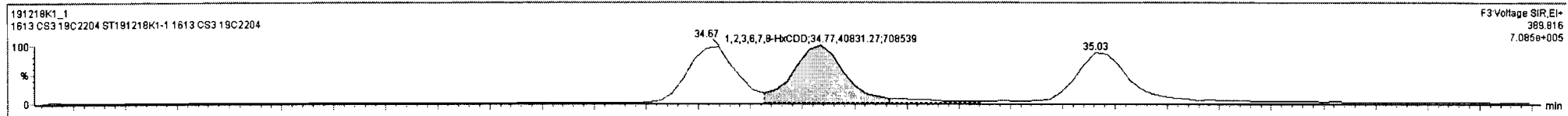


191218K1\_1



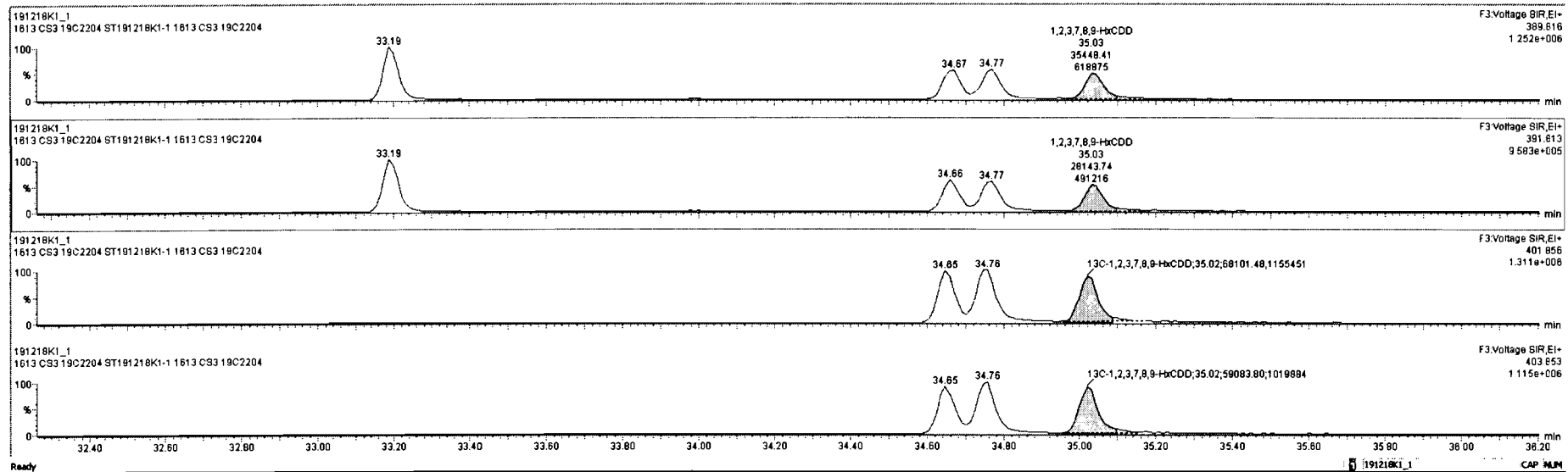
#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred RT	RRT	RRT Fail	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.44e4	0.76	NO	0.9249	1.000	26.17	26.17	1.001	1.001	NO	10.09	101	0.143	10.09
2	1,2,3,7,8-PeCDD	7.44e4	0.85	NO	0.9046	1.000	31.31	31.31	1.001	1.001	NO	51.86	104	0.304	51.86
3	1,2,3,4,7,8-HxCDD	6.55e4	1.29	NO	1.0691	1.000	34.66	34.67	1.000	1.001	NO	51.67	103	0.535	51.67
4	1,2,3,6,7,8-HxCDD	7.30e4	1.27	NO	0.9875	1.000	34.76	34.77	1.000	1.000	NO	53.80	107	0.591	53.80
5	1,2,3,7,8,9-HxCDD	6.89e4	1.28	NO	0.9778	1.000	35.06	35.03	1.001	1.000	NO	56.00	112	0.641	56.00
6	1,2,3,4,6,7,8-HpCDD	4.93e4	1.05	NO	1.0375	1.000	38.54	38.55	1.000	1.001	NO	51.17	102	0.690	51.17
7	OCDD	8.46e4	0.86	NO	0.9718	1.000	41.81	41.82	1.000	1.000	NO	97.35	97.3	0.811	97.35
8	2,3,7,8-TCDF	3.65e4	0.78	NO	0.9376	1.000	25.18	25.19	1.001	1.001	NO	10.78	108	0.104	10.78
9	1,2,3,7,8-PeCDF	1.27e5	1.59	NO	0.9762	1.000	30.00	30.00	1.001	1.001	NO	51.93	104	0.206	51.93
10	2,3,4,7,8-PeCDF	1.23e5	1.53	NO	1.0049	1.000	31.02	30.99	1.001	1.000	NO	53.07	106	0.187	53.07
11	1,2,3,4,7,8-HxCDF	1.05e5	1.29	NO	1.2434	1.000	33.78	33.80	1.001	1.001	NO	50.76	102	0.409	50.76
12	1,2,3,6,7,8-HxCDF	1.20e5	1.21	NO	1.0950	1.000	33.91	33.92	1.000	1.001	NO	53.04	106	0.399	53.04

#	Name	Pred RT	RT	ref Resp	m2 Resp	1st Ratio (Pred)	RA	n/y	EMPC	Conc.
1										



#	Name	Resp	RA	nly	RF	wRet	Pred_RT	RT	Pred_FL	RTI	RTI Fail	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.44e4	0.76	NO	0.9249	1.000	26.17	26.17	1.001	1.001	NO	10.09	101	0.143	10.09
2	1,2,3,7,8-PeCDD	7.44e4	0.85	NO	0.9046	1.000	31.31	31.31	1.001	1.001	NO	51.86	104	0.304	51.86
3	1,2,3,4,7,8-HxCDD	6.56e4	1.29	NO	1.0891	1.000	34.66	34.67	1.000	1.001	NO	51.67	103	0.535	51.67
4	1,2,3,6,7,8-HxCDD	7.30e4	1.27	NO	0.9675	1.000	34.76	34.77	1.000	1.000	NO	53.60	107	0.581	53.60
5	1,2,3,7,8,9-HxCDD	8.36e4	1.28	NO	0.9778	1.000	35.00	35.00	1.001	1.000	NO	51.14	102	0.620	51.14
6	1,2,3,4,6,7,8-HpCDD	4.93e4	1.05	NO	1.0375	1.000	36.54	36.55	1.000	1.001	NO	51.17	102	0.690	51.17
7	OCDD	8.46e4	0.86	NO	0.9718	1.000	41.81	41.82	1.000	1.000	NO	97.35	97.3	0.811	97.35
8	2,3,7,8-TCDF	3.88e4	0.78	NO	0.9376	1.000	25.19	25.19	1.001	1.001	NO	10.76	106	0.104	10.76
9	1,2,3,7,8-PeCDF	1.27e5	1.59	NO	0.9762	1.000	30.00	30.00	1.001	1.001	NO	51.93	104	0.208	51.93
10	1,2,3,4,7,8-PeCDF	1.23e5	1.53	NO	1.0049	1.000	31.02	30.99	1.001	1.000	NO	53.07	106	0.187	53.07
11	1,2,3,4,7,8-HxCDF	1.05e5	1.29	NO	1.2434	1.000	33.78	33.60	1.000	1.001	NO	50.76	102	0.409	50.76
12	1,2,3,6,7,8-HxCDF	1.20e5	1.21	NO	1.0950	1.000	33.91	33.92	1.000	1.001	NO	53.04	106	0.389	53.04

#	Name	Pred_RT	RT	m1 Resp	m2 Resp	1*Ratio (Pred)	RA	nly	EMPC	Conc.
1										



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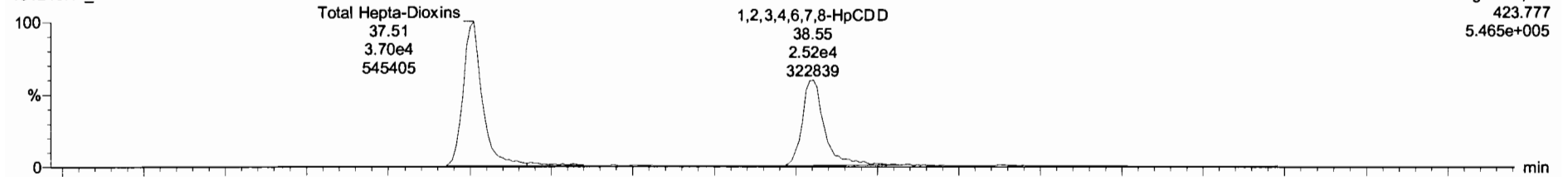
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Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

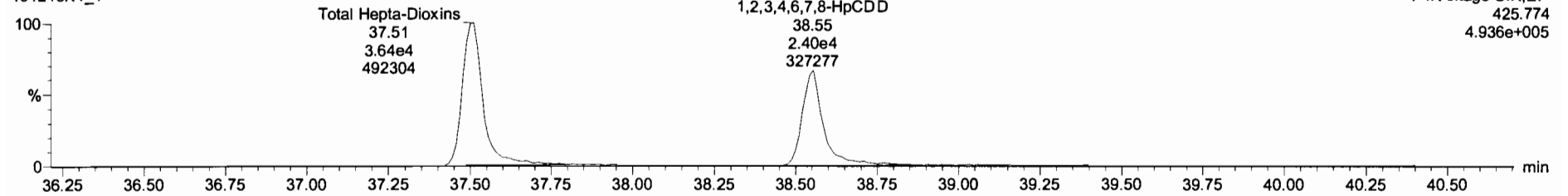
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**1,2,3,4,6,7,8-HpCDD**

191218K1\_1

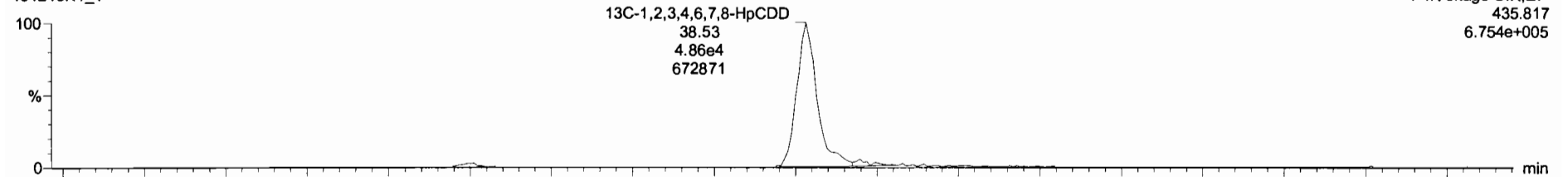


191218K1\_1

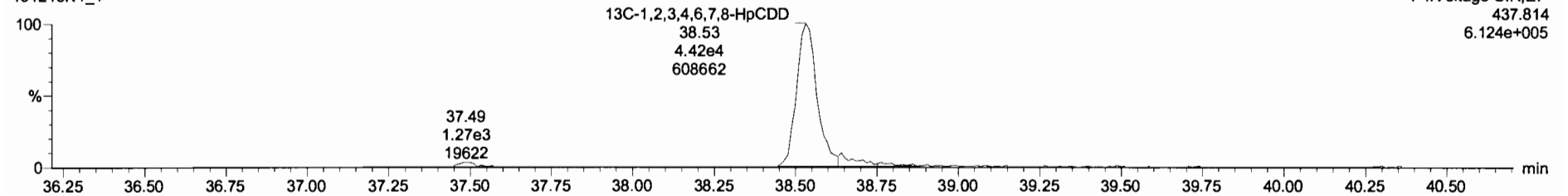


**13C-1,2,3,4,6,7,8-HpCDD**

191218K1\_1

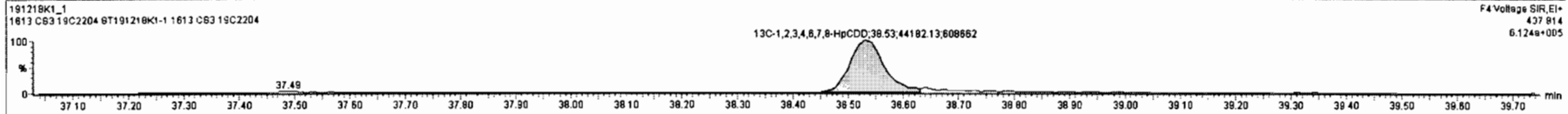
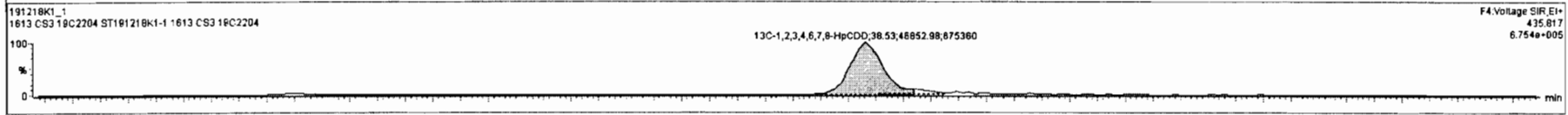
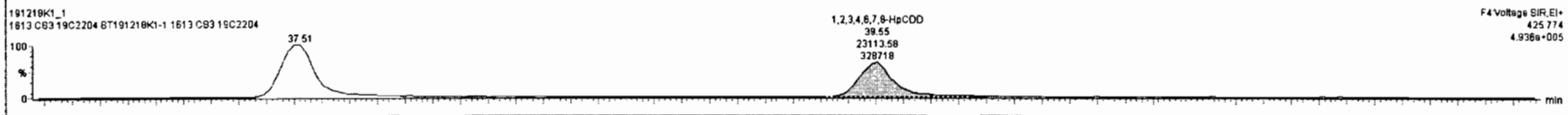
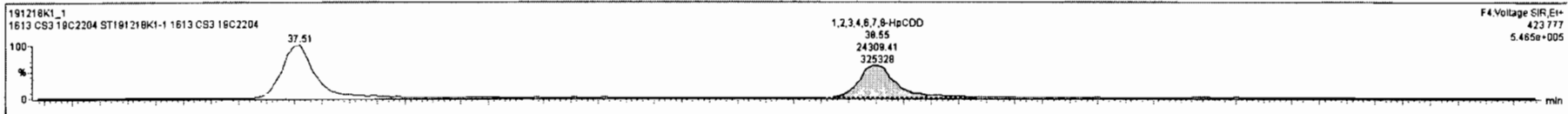


191218K1\_1



#	Name	Resp	RA	nY	RPF	wAcid	Prod_RT	RT	Prod_R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	1,2,3,7,8-TCDD	2.44e4	0.75	NO	0.9249	1.000	26.17	26.17	1.001	1.001	NO	10.09	101	0.143	10.09
2	1,2,3,7,8-PeCDD	7.44e4	0.65	NO	0.9046	1.000	31.31	31.31	1.001	1.001	NO	51.86	104	0.304	51.86
3	1,2,3,4,7,8-HxCDD	6.55e4	1.29	NO	1.0891	1.000	34.66	34.67	1.000	1.001	NO	51.67	103	0.535	51.67
4	1,2,3,6,7,8-HxCDD	7.30e4	1.27	NO	0.9675	1.000	34.76	34.77	1.000	1.000	NO	53.60	107	0.581	53.60
5	1,2,3,7,8,9-HxCDD	6.35e4	1.26	NO	0.9778	1.000	35.06	35.03	1.001	1.000	NO	51.14	102	0.623	51.14
6	1,2,3,4,6,7,8-HpCDD	4.74e4	1.05	NO	1.0578	1.000	36.54	36.55	1.000	1.001	NO	80.21	100	0.875	80.21
7	OCDD	8.46e4	0.86	NO	0.9718	1.000	41.81	41.82	1.000	1.000	NO	97.35	97.3	0.811	97.35
8	2,3,7,8-TCDF	3.66e4	0.78	NO	0.9376	1.000	25.18	25.19	1.001	1.001	NO	10.78	108	0.104	10.78
9	1,2,3,7,8-PeCDF	1.27e5	1.59	NO	0.9762	1.000	30.00	30.00	1.001	1.001	NO	51.93	104	0.206	51.93
10	1,2,3,4,7,8-PeCDF	1.23e5	1.53	NO	1.0049	1.000	31.02	30.99	1.001	1.000	NO	53.07	108	0.187	53.07
11	1,2,3,4,7,8-HxCDF	1.05e5	1.29	NO	1.2434	1.000	33.78	33.80	1.000	1.001	NO	50.76	102	0.409	50.76
12	1,2,3,6,7,8-HxCDF	1.20e5	1.21	NO	1.0950	1.000	33.91	33.92	1.000	1.001	NO	53.04	108	0.389	53.04

#	Name	Prod_RT	RT	m1 Resp	m2 Resp	1* Ratio (Prod)	RA	nY	EMPC	Conc.
1										

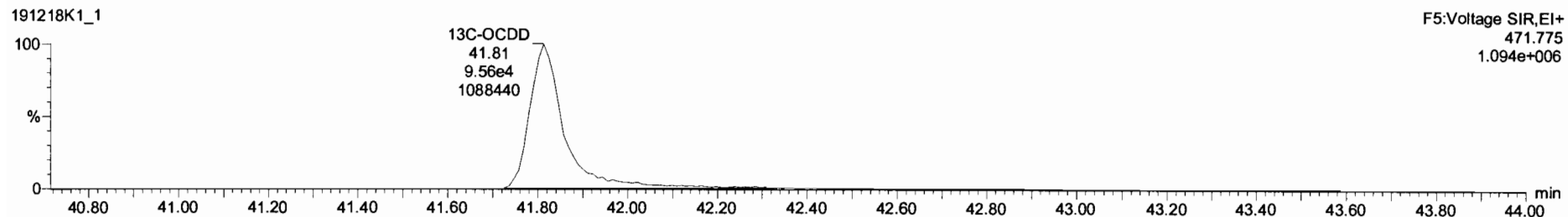
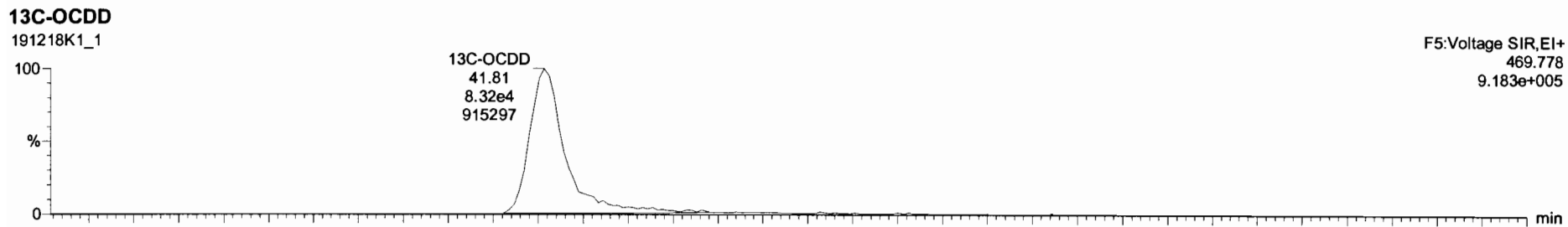
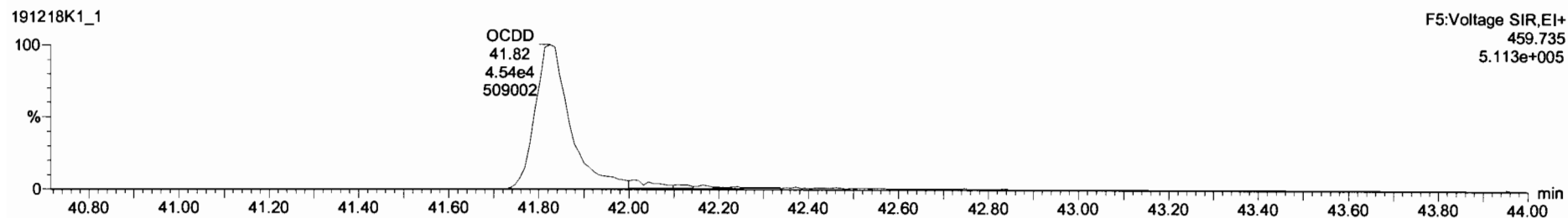
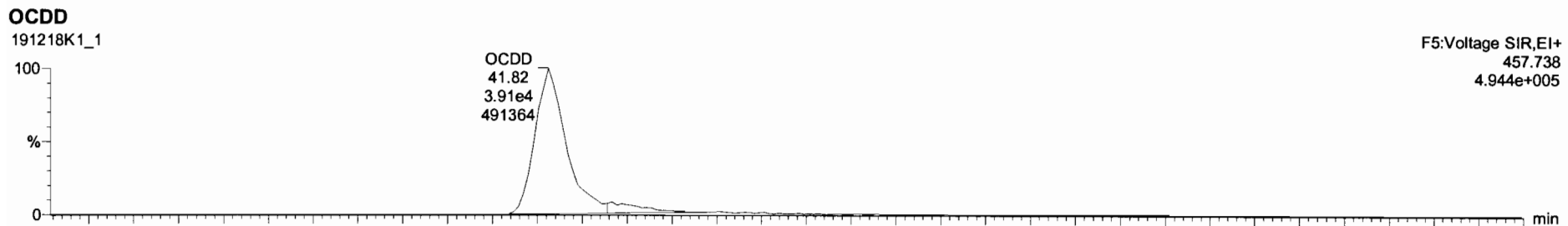


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Last Altered: Thursday, December 19, 2019 07:42:21 Pacific Standard Time

Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

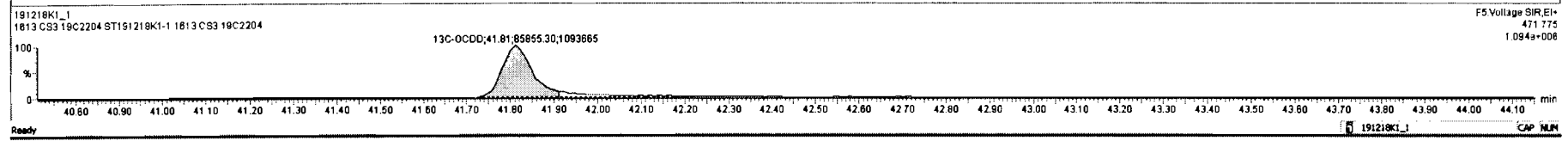
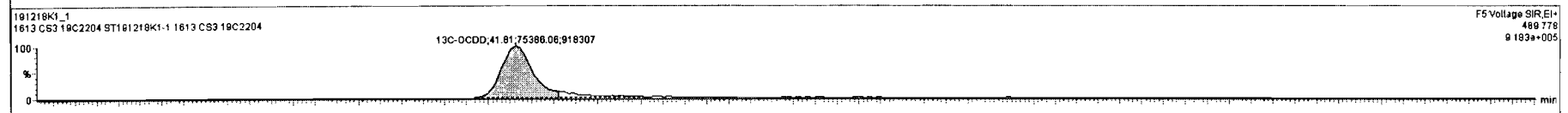
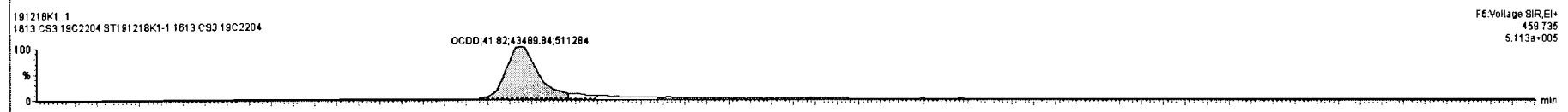
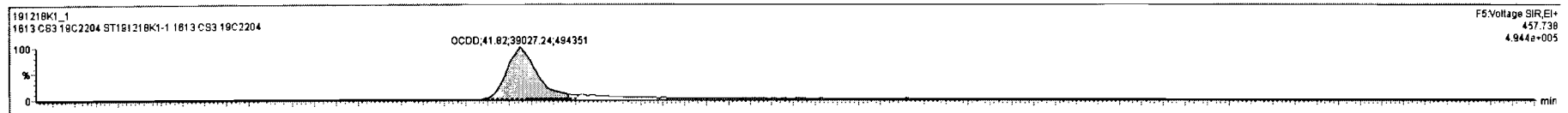
Name: 191218K1\_1, Date: 18-Dec-2019, Time: 17:33:49, ID: ST191218K1-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204





#	Name	Rsp	RA	n/y	RF	wAve	Pred.RT	RT	Pred.R	RF	RF Fail	Conc.	%Rec	DL	EMPC
1	1,2,3,7,8-TCDD	2.44e4	0.78	NO	0.9249	1.000	26.17	26.17	1.001	1.001	NO	10.09	101	0.143	10.09
2	1,2,3,7,8-PeCDD	7.44e4	0.85	NO	0.9046	1.000	31.31	31.31	1.001	1.001	NO	51.86	104	0.304	51.86
3	1,2,3,4,7,8-PeCDD	6.56e4	1.29	NO	1.0691	1.000	34.86	34.67	1.000	1.001	NO	51.67	103	0.535	51.87
4	1,2,3,6,7,8-PeCDD	7.30e4	1.27	NO	0.9675	1.000	34.76	34.77	1.000	1.000	NO	53.60	107	0.581	53.60
5	1,2,3,7,8,9-PeCDD	6.36e4	1.26	NO	0.9778	1.000	35.06	35.03	1.001	1.000	NO	51.14	102	0.623	51.14
6	1,2,3,4,6,7,8-HxCDD	4.74e4	1.05	NO	1.0375	1.000	36.54	36.55	1.000	1.001	NO	50.21	100	0.675	50.21
7	OCDD	6.25e4	0.90	NO	0.9716	1.000	41.81	41.82	1.000	1.000	NO	106.3	106	0.812	106.3
8	2,3,7,8-TCDF	3.66e4	0.78	NO	0.9376	1.000	25.18	25.19	1.001	1.001	NO	10.78	108	0.104	10.78
9	1,2,3,7,8-PeCDF	1.27e5	1.58	NO	0.9762	1.000	30.00	30.00	1.001	1.001	NO	51.93	104	0.206	51.93
10	2,3,4,7,8-PeCDF	1.22e5	1.53	NO	1.0048	1.000	31.02	30.99	1.001	1.000	NO	53.07	106	0.187	53.07
11	1,2,3,4,7,8-HxCDF	1.05e5	1.29	NO	1.2434	1.000	33.78	33.60	1.000	1.001	NO	50.78	102	0.409	50.78
12	1,2,3,6,7,8-HxCDF	1.20e5	1.21	NO	1.0950	1.000	33.91	33.92	1.000	1.001	NO	53.04	106	0.399	53.04

#	Name	Pred.RT	RT	m1 Rsp	m2 Rsp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1										



Dataset: Untitled

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Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

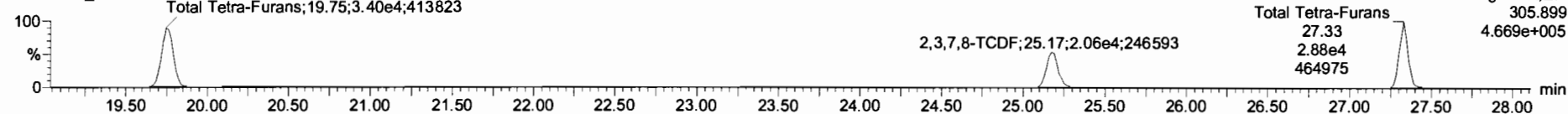
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**2,3,7,8-TCDF**

191218K1\_1

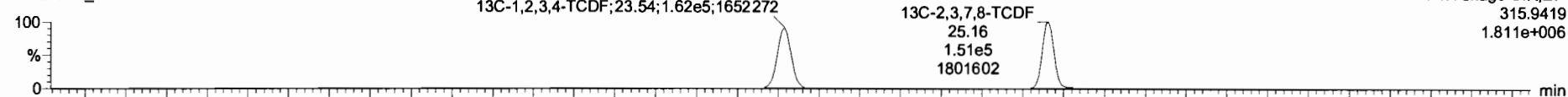


191218K1\_1

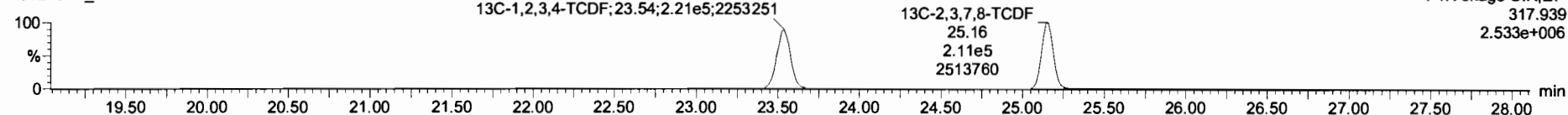


**13C-2,3,7,8-TCDF**

191218K1\_1

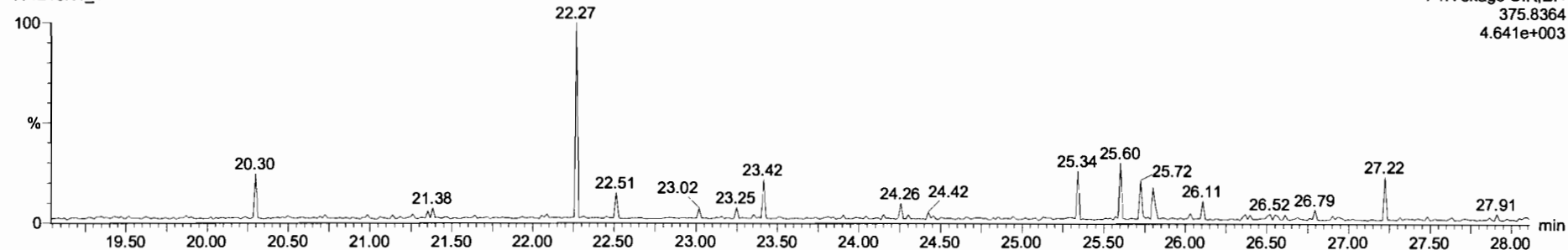


191218K1\_1



**DPE1**

191218K1\_1



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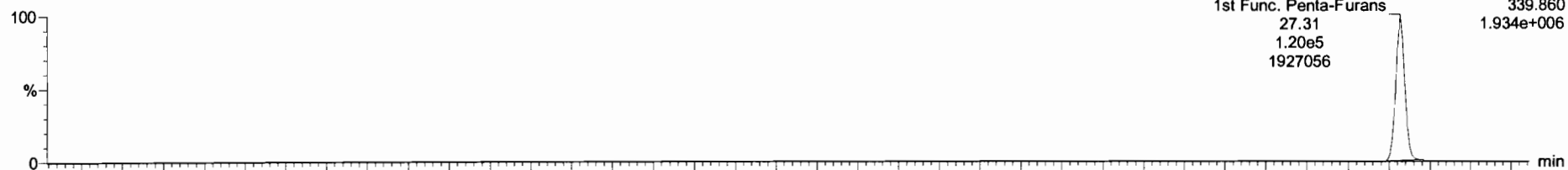
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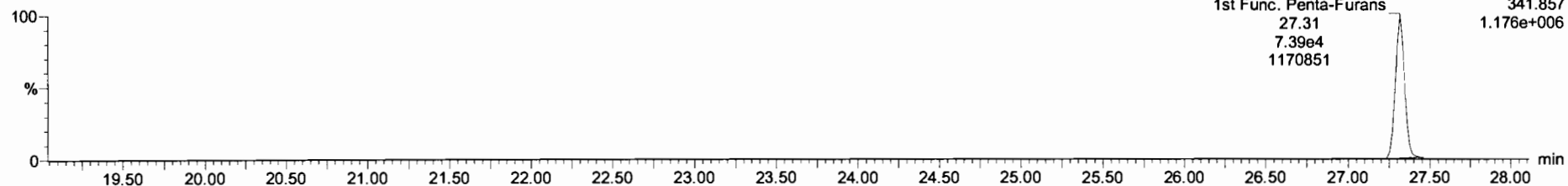
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1st Func. Penta-Furans

191218K1\_1

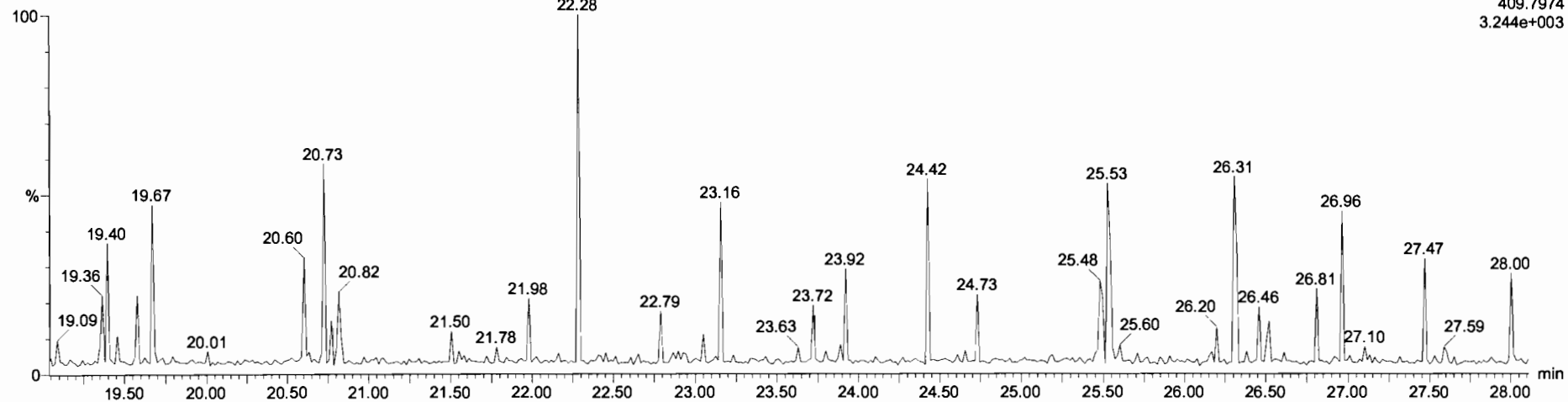


191218K1\_1



DPE6

191218K1\_1



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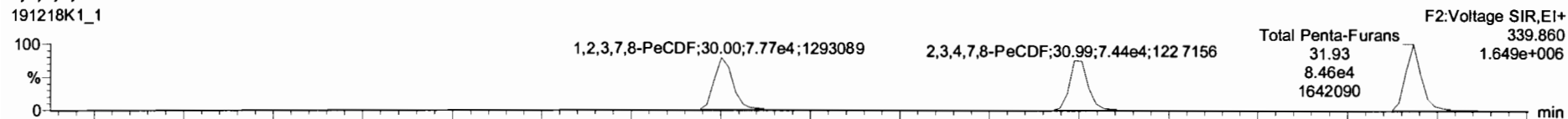
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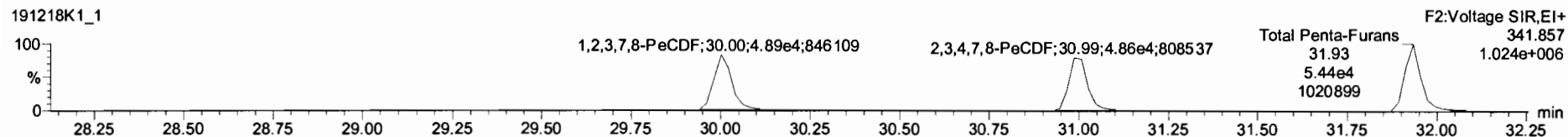
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### 1,2,3,7,8-PeCDF

191218K1\_1

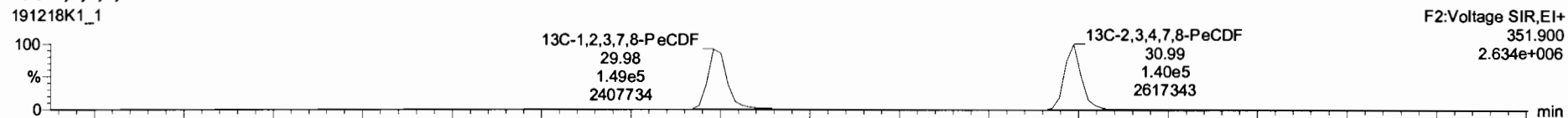


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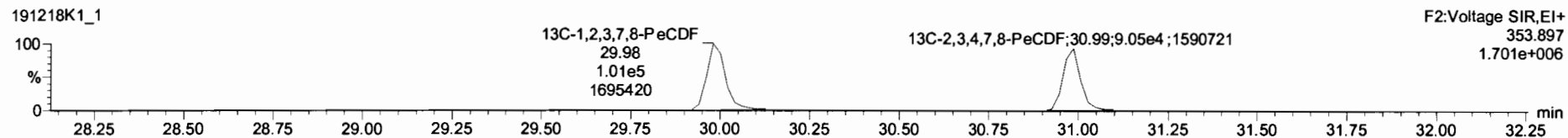


### 13C-1,2,3,7,8-PeCDF

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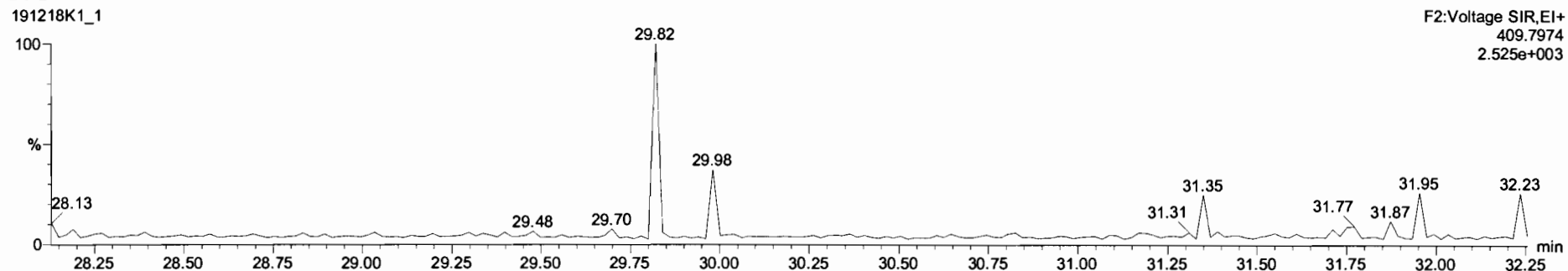


191218K1\_1



### DPE2

191218K1\_1



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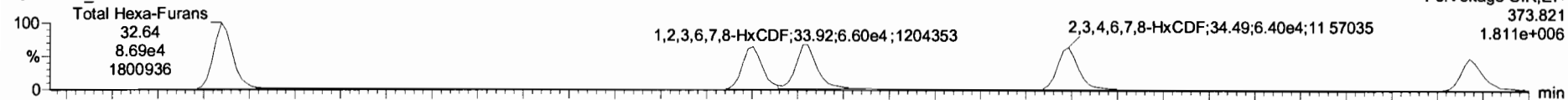
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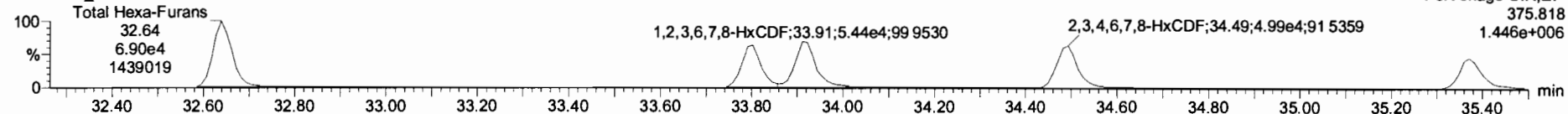
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**1,2,3,4,7,8-HxCDF**

191218K1\_1

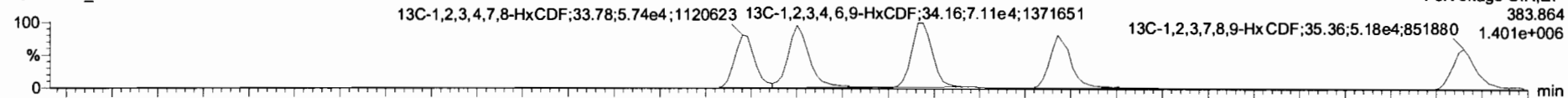


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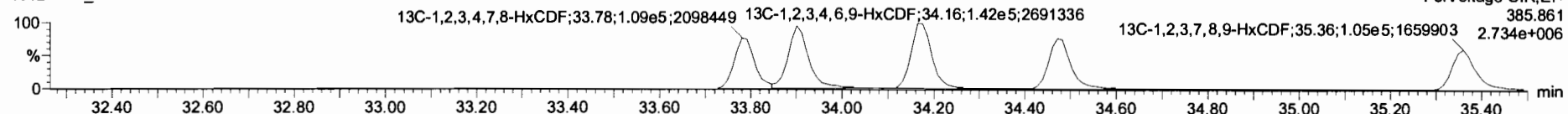


**13C-1,2,3,4,7,8-HxCDF**

191218K1\_1

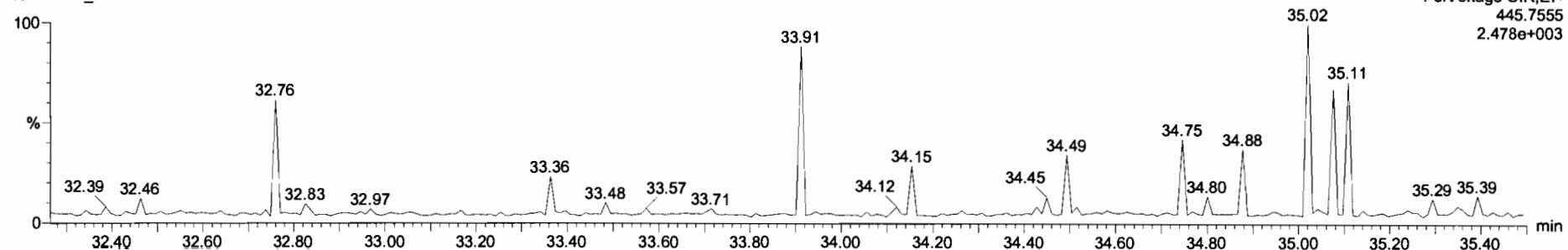


191218K1\_1



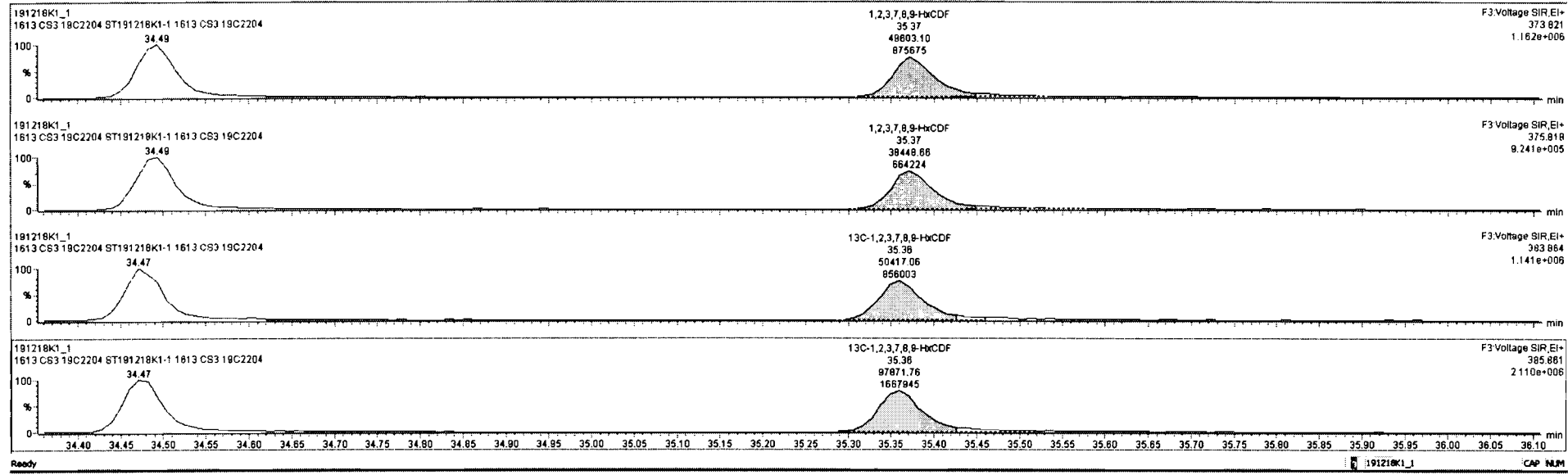
**DPE3**

191218K1\_1



#	Name	Resp	RA	nly	RRF	wtAvd	Pred.RT	RT	Pred.R...	RRF	RRT Fail	Conc.	NRes	DL	BNPC
12	1,2,3,6,7,8-HxCDF	1.20e5	1.21	NO	1.0950	1.000	33.91	33.92	1.000	1.001	NO	53.04	106	0.389	53.04
13	2,3,4,6,7,8-HxCDF	1.14e5	1.28	NO	1.1806	1.000	34.51	34.49	1.001	1.001	NO	53.29	107	0.417	53.29
14	1,2,3,7,8-HxCDF	8.71e4	1.28	NO	1.0728	1.000	36.38	36.27	1.000	1.000	NO	54.72	108	0.493	54.72
15	1,2,3,4,6,7,8-HpCDF	8.89e4	1.05	NO	1.1300	1.000	37.14	37.12	1.001	1.000	NO	52.51	105	0.475	52.51
16	1,2,3,4,7,8,9-HpCDF	7.16e4	0.98	NO	1.2609	1.000	39.15	38.16	1.000	1.000	NO	54.89	110	0.583	54.89
17	OCDF	1.22e5	0.89	NO	1.1025	1.000	42.00	42.01	1.000	1.000	NO	93.31	93.3	0.519	93.31
18	13C-2,3,7,8-10DD	2.62e5	0.78	NO	1.0499	1.000	26.15	26.14	1.027	1.027	NO	101.0	101	0.383	
19	13C-1,2,3,7,8-PeCDD	1.58e5	0.64	NO	0.7429	1.000	31.29	31.29	1.230	1.229	NO	86.38	86.4	0.436	
20	13C-1,2,3,4,7,8-HxCDD	1.19e5	1.26	NO	0.8463	1.000	34.84	34.65	1.014	1.014	NO	86.38	86.4	0.689	
21	13C-1,2,3,6,7,8-HxCDD	1.41e5	1.24	NO	0.7787	1.000	34.73	34.76	1.017	1.017	NO	85.17	85.2	0.557	
22	13C-1,2,3,7,8-HxCDD	1.27e5	1.15	NO	0.6595	1.000	35.01	35.02	1.025	1.025	NO	90.69	90.7	0.656	
23	13C-1,2,3,4,6,7,8-HpCDD	9.10e4	1.06	NO	0.5342	1.000	36.51	36.53	1.127	1.128	NO	80.14	80.1	0.916	

#	Name	Pred.RT	RT	wt Resp	m2 Resp	1* Ratio (Pred)	RA	nly	BNPC	Conc.
1										

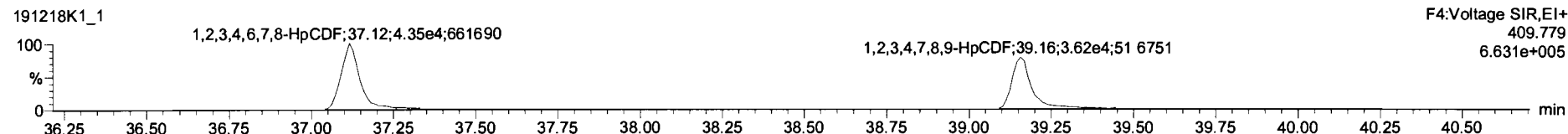
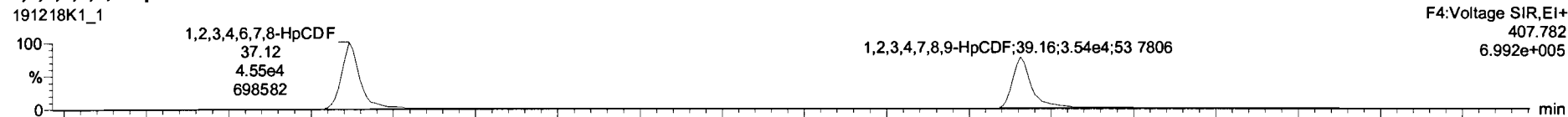


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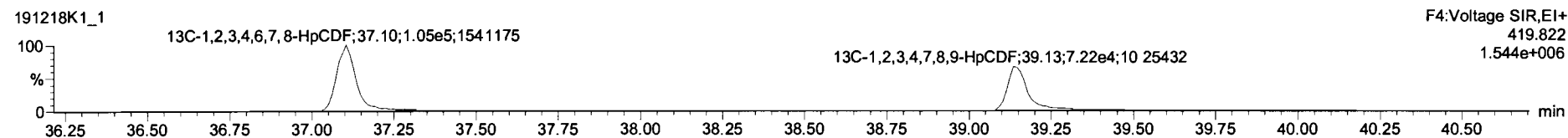
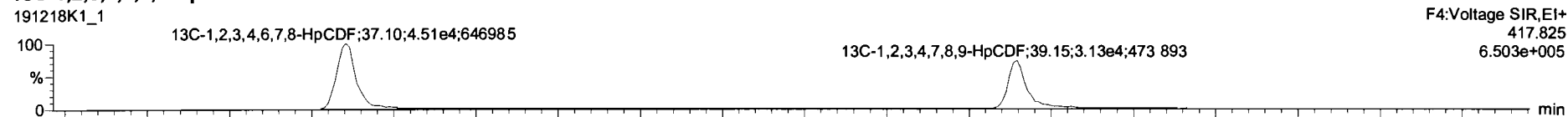
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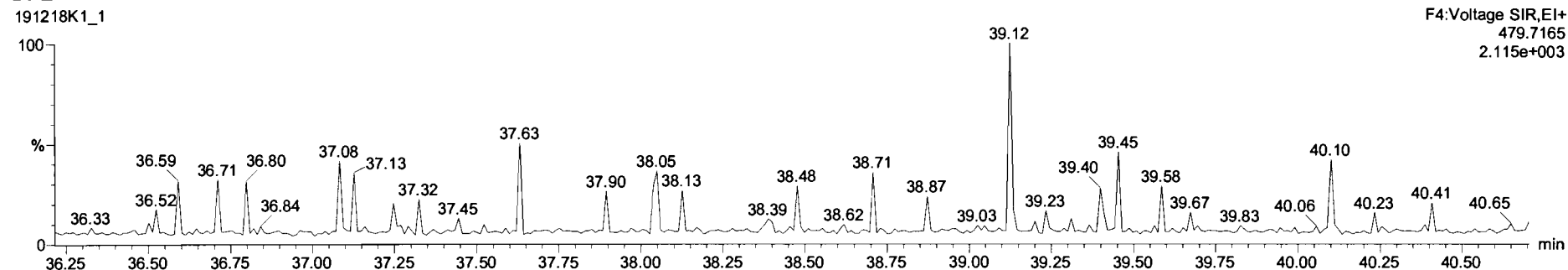
**1,2,3,4,6,7,8-HpCDF**



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

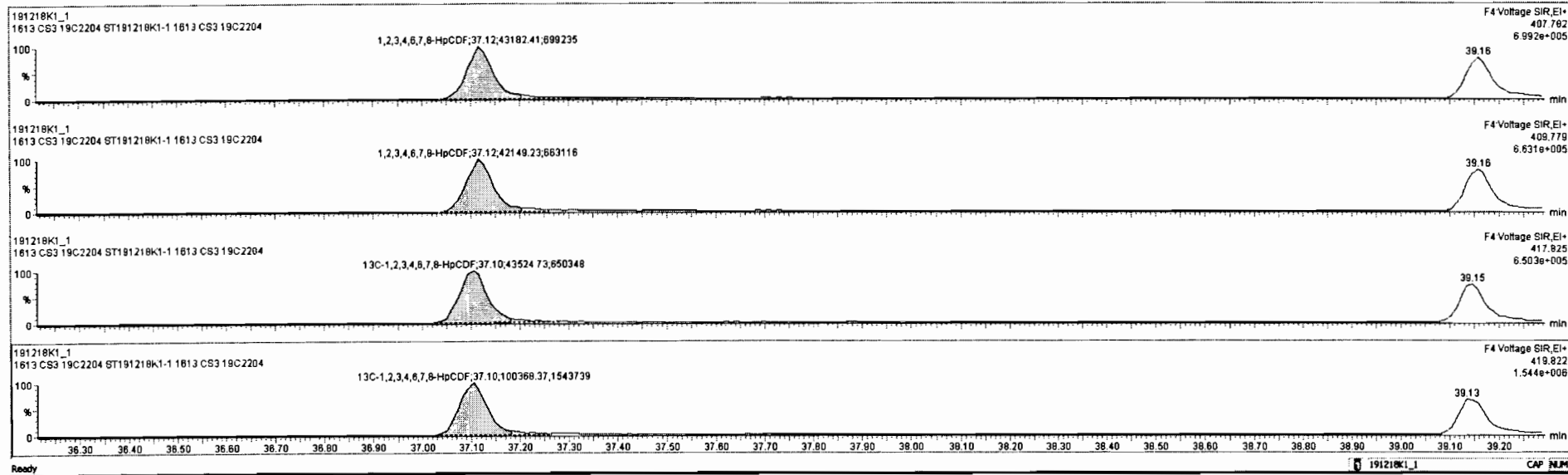


**DPE4**



#	Name	Resp	RA	n/y	RRF	wtAvd	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
12	1,2,3,6,7,8-HxCDF	1.20e5	1.21	NO	1.0950	1.000	33.91	33.92	1.000	1.001	NO	53.04	106	0.389	53.04
13	2,3,4,6,7,8-HxCDF	1.14e5	1.28	NO	1.1806	1.000	34.51	34.49	1.001	1.001	NO	53.29	107	0.417	53.29
14	1,2,3,7,8,9-HxCDF	6.71e4	1.26	NO	1.0728	1.000	35.36	35.37	1.000	1.000	NO	54.72	109	0.613	54.72
15	1,2,3,4,6,7,8-HpCDF	8.59e4	1.02	NO	1.1300	1.000	37.14	37.12	1.001	1.000	NO	52.48	108	0.474	52.48
16	1,2,3,4,7,8,9-HpCDF	7.16e4	0.99	NO	1.2609	1.000	39.15	39.16	1.000	1.000	NO	54.89	110	0.583	54.89
17	OCDF	1.22e5	0.89	NO	1.1025	1.000	42.00	42.01	1.000	1.000	NO	93.31	93.3	0.519	93.31
18	13C-2,3,7,8-TCDD	2.62e5	0.78	NO	1.0489	1.000	26.15	26.14	1.027	1.027	NO	101.0	101	0.383	
19	13C-1,2,3,7,8-PeCDD	1.58e5	0.64	NO	0.7429	1.000	31.29	31.29	1.230	1.229	NO	86.38	86.4	0.436	
20	13C-1,2,3,4,7,8-HxCDD	1.19e5	1.26	NO	0.8463	1.000	34.64	34.65	1.014	1.014	NO	86.38	86.4	0.669	
21	13C-1,2,3,6,7,8-HxCDD	1.41e5	1.24	NO	0.7767	1.000	34.73	34.76	1.017	1.017	NO	85.17	85.2	0.557	
22	13C-1,2,3,7,8,9-HxCDD	1.27e5	1.15	NO	0.6696	1.000	35.01	35.02	1.025	1.025	NO	90.59	90.7	0.656	
23	13C-1,2,3,4,6,7,8-HpCDD	9.10e4	1.06	NO	0.5342	1.000	36.51	36.53	1.127	1.126	NO	80.14	80.1	0.916	

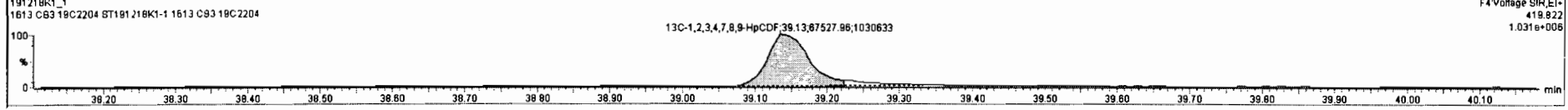
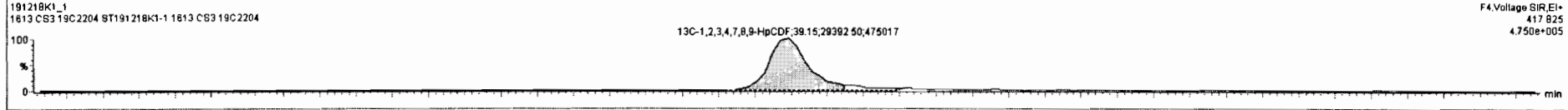
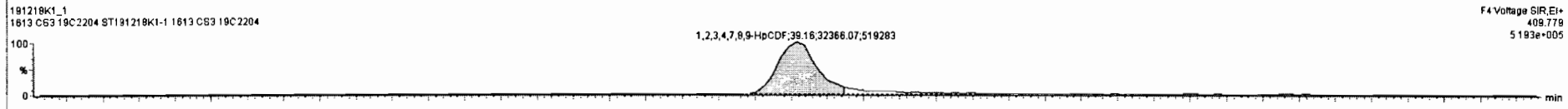
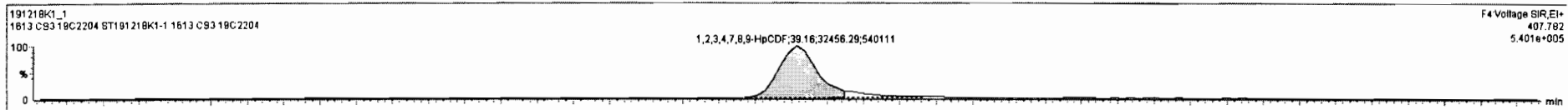
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1										





#	Name	Resp	RA	RY	RPF	wVnd	Pred RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
12	1,2,3,6,7,8-HxCDF	1.20e5	1.21	NO	1.0950	1.000	33.91	33.82	1.000	1.001	NO	53.04	106	0.369	53.04
13	1,2,3,4,6,7,8-HxCDF	1.14e5	1.28	NO	1.1806	1.000	34.51	34.49	1.001	1.001	NO	53.29	107	0.417	53.29
14	1,2,3,7,8,9-HxCDF	8.71e4	1.26	NO	1.0728	1.000	35.38	35.37	1.000	1.000	NO	54.72	109	0.513	54.72
15	1,2,3,4,6,7,8-HpCDF	8.53e4	1.02	NO	1.1300	1.000	37.14	37.12	1.001	1.000	NO	52.48	105	0.474	52.48
16	1,2,3,4,7,8,9-HpCDF	8.48e4	1.00	NO	1.2908	1.000	38.15	38.16	1.000	1.000	NO	53.04	106	0.523	53.04
17	OCDF	1.22e5	0.88	NO	1.1025	1.000	42.00	42.01	1.000	1.000	NO	93.31	93.3	0.519	93.31
18	13C-2,3,7,8-TCDD	2.82e5	0.78	NO	1.0489	1.000	26.15	26.14	1.027	1.027	NO	101.0	101	0.383	
19	13C-1,2,3,7,8-PeCDD	1.58e5	0.84	NO	0.7429	1.000	31.29	31.29	1.230	1.229	NO	86.39	86.4	0.436	
20	13C-1,2,3,4,7,8-HxCDD	1.19e5	1.26	NO	0.8463	1.000	34.64	34.65	1.014	1.014	NO	86.39	86.4	0.669	
21	13C-1,2,3,6,7,8-HxCDD	1.41e5	1.24	NO	0.7767	1.000	34.73	34.76	1.017	1.017	NO	85.17	85.2	0.557	
22	13C-1,2,3,7,8-HxCDD	1.27e5	1.15	NO	0.6595	1.000	35.01	35.02	1.025	1.025	NO	90.69	90.7	0.656	
23	13C-1,2,3,4,6,7,8-HpCDD	9.10e4	1.08	NO	0.5342	1.000	38.51	38.53	1.127	1.128	NO	80.14	80.1	0.916	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1st Ratio (Pred)	RA	RY	EMPC	Conc
1										

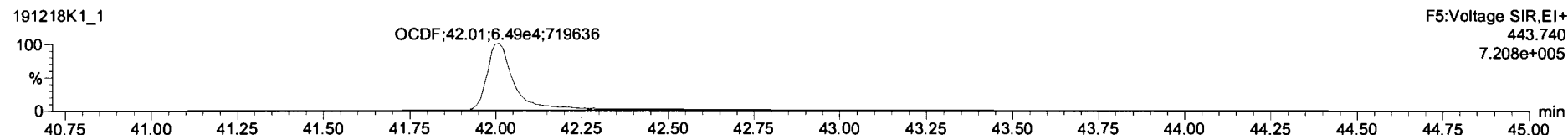
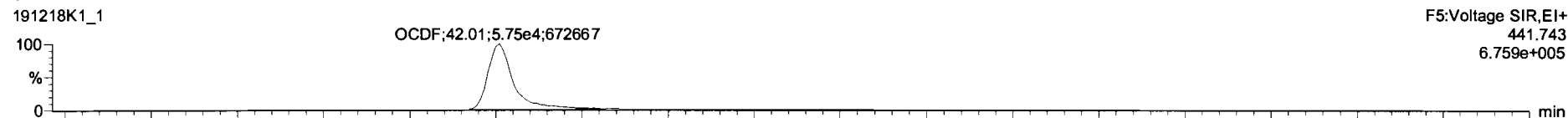


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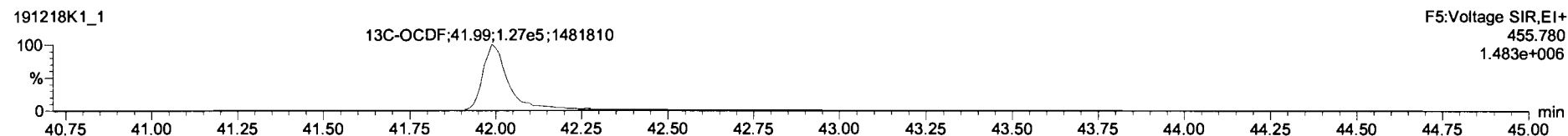
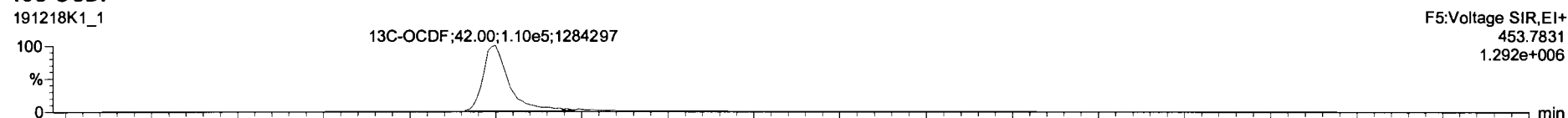
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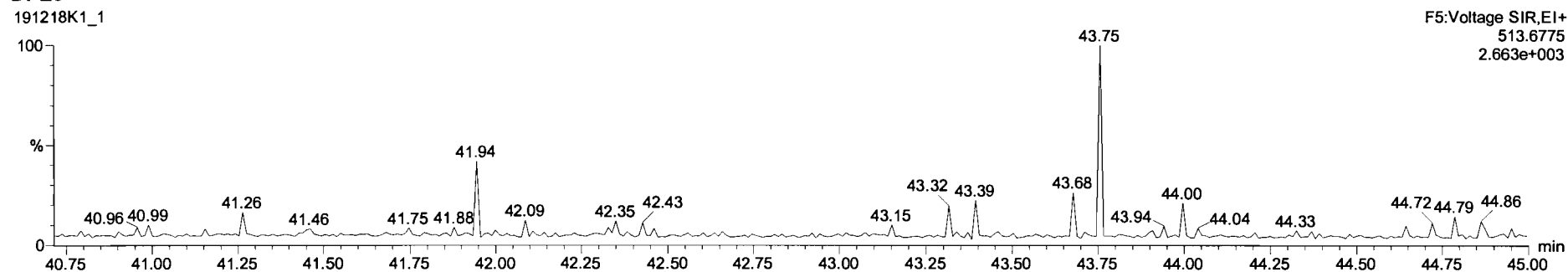
**OCDF**



**13C-OCDF**



**DPE5**

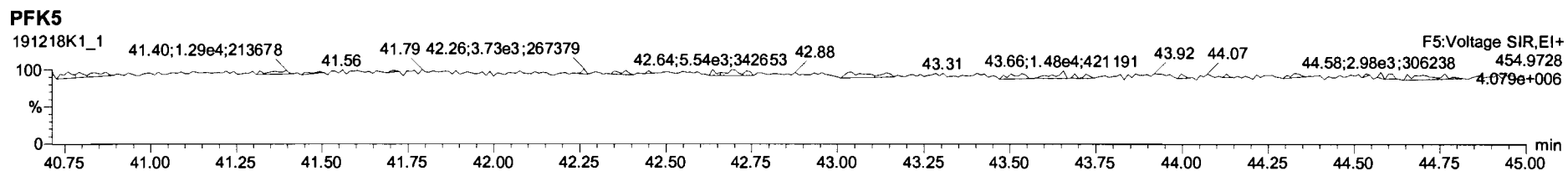
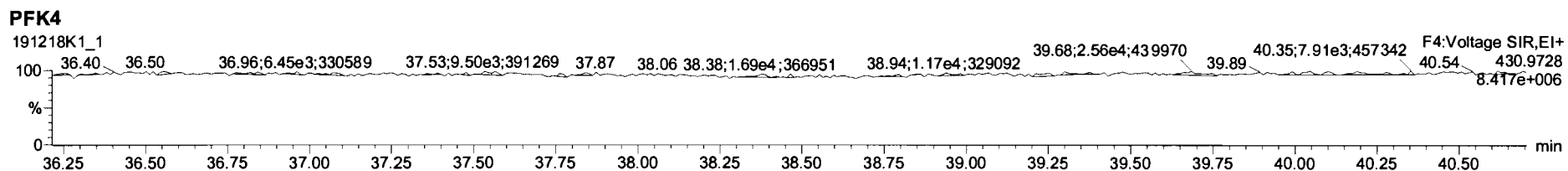
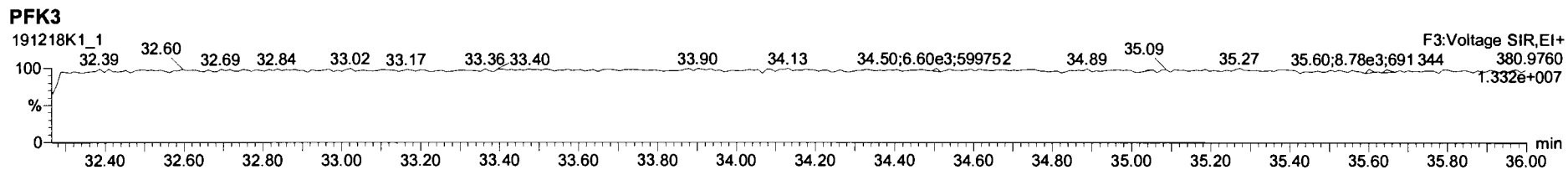
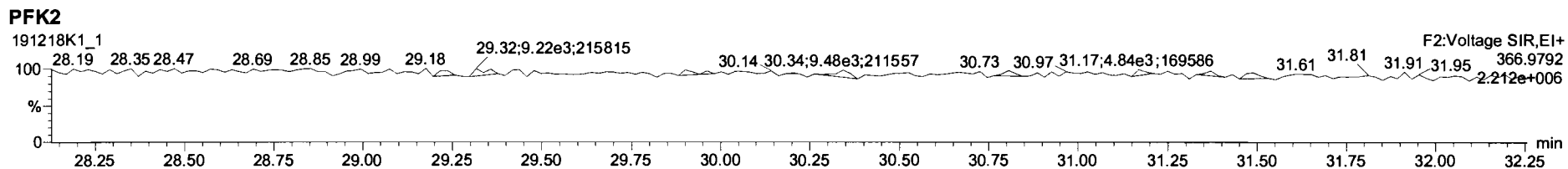
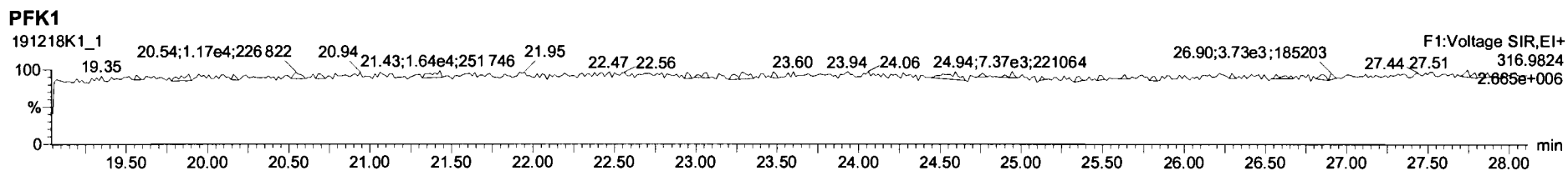




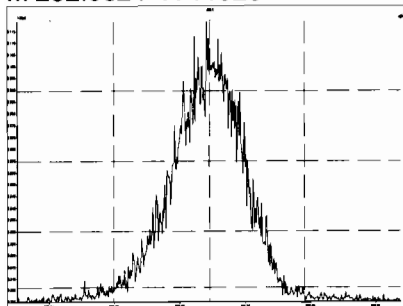
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Printed: Thursday, December 19, 2019 07:49:20 Pacific Standard Time

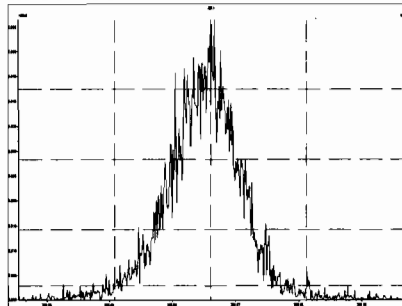
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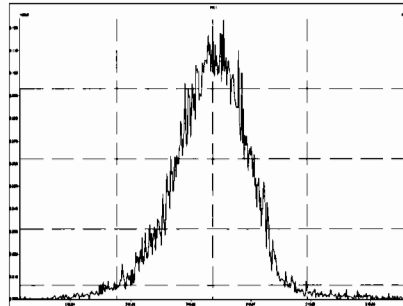
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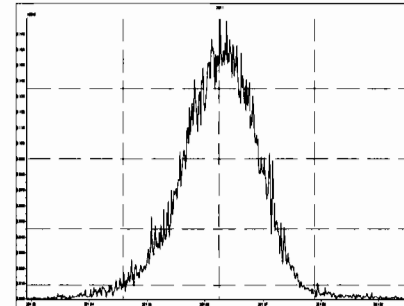
M 304.9824 R 12692



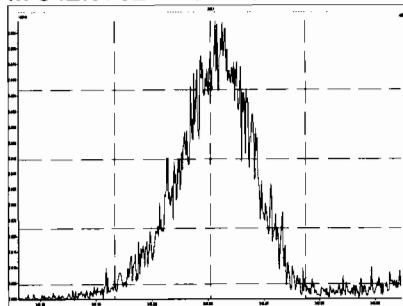
M 318.9792 R 11765



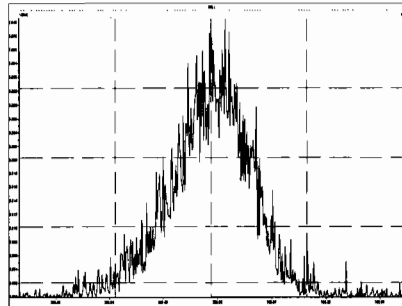
M 330.9792 R 11037



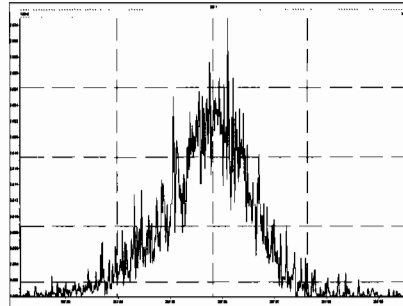
M 342.9792 R 11279



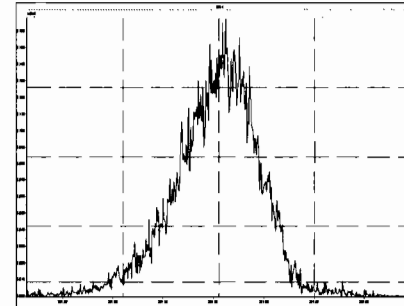
M 354.9792 R 11568



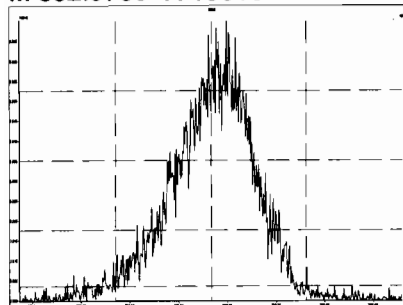
M 366.9792 R 12423



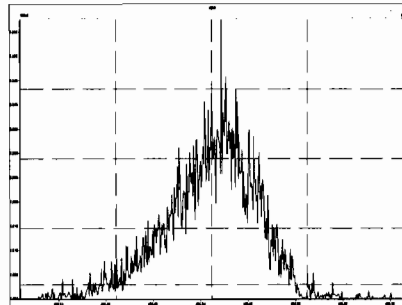
M 380.9760 R 11121



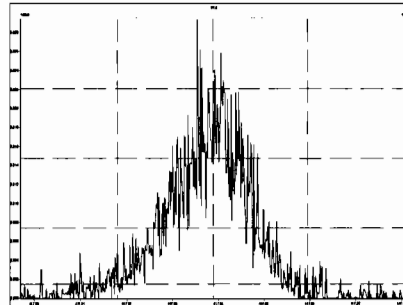
M 392.9760 R 10615



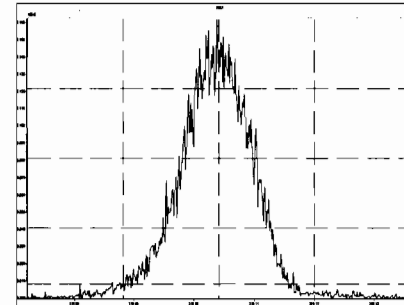
M 404.9760 R 10872



M 416.9760 R 12124

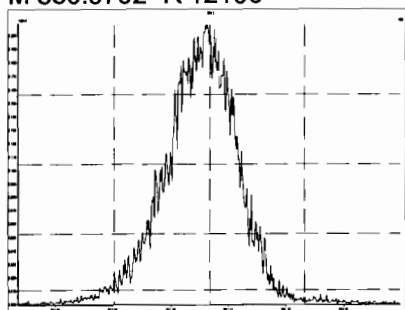


M 318.9792 R 12407

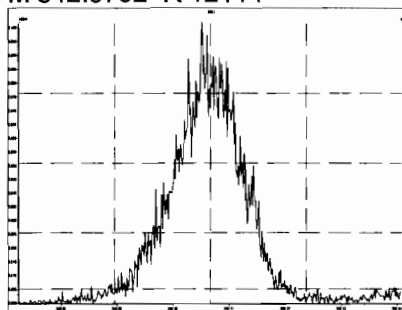


Printed: Thursday, December 19, 2019 04:09:34 Pacific Standard Time

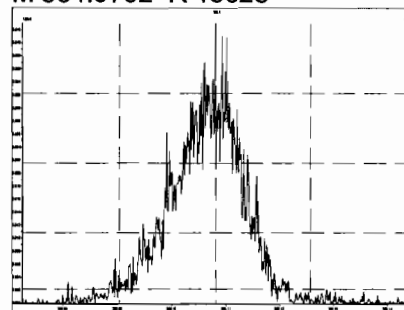
M 330.9792 R 12106



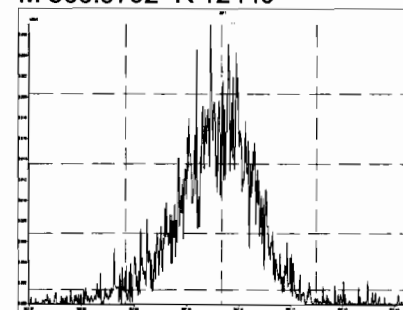
M 342.9792 R 12114



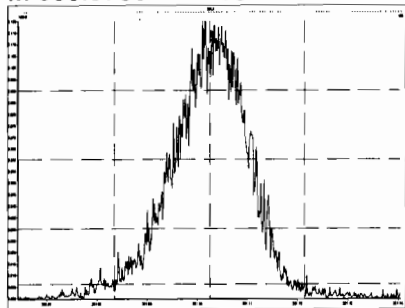
M 354.9792 R 13623



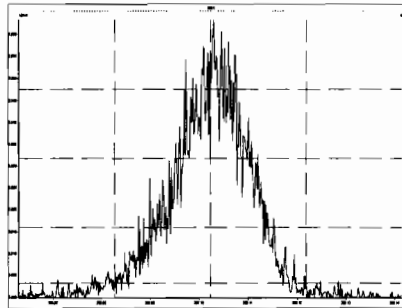
M 366.9792 R 12440



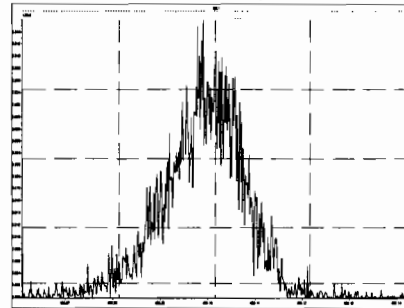
M 380.9760 R 11532



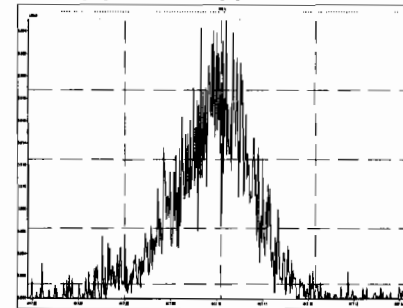
M 392.9760 R 12149



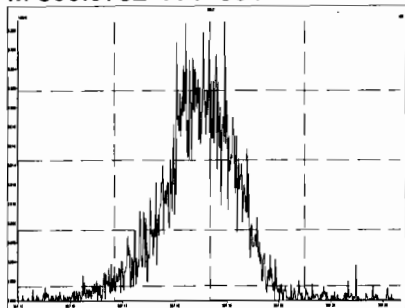
M 404.9760 R 12245



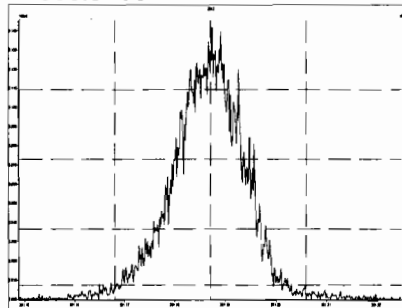
M 416.9760 R 13602



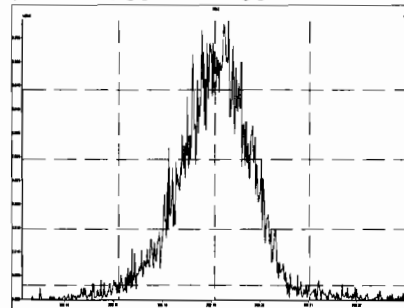
M 366.9792 R 12954



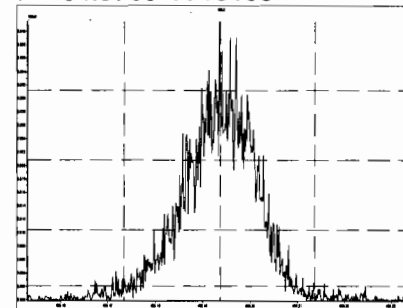
M 380.9760 R 12051



M 392.9760 R 12358

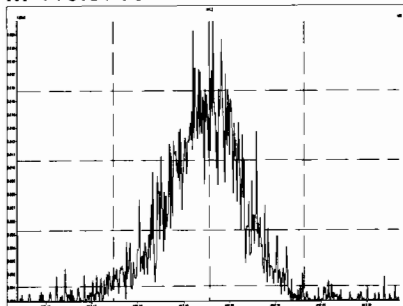


M 404.9760 R 13163

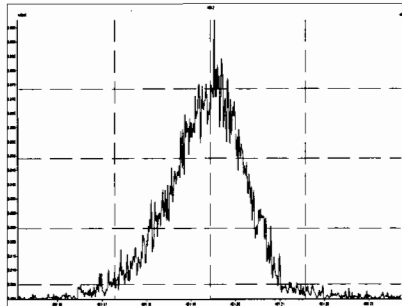


Printed: Thursday, December 19, 2019 04:09:34 Pacific Standard Time

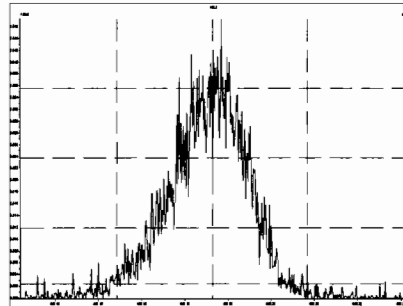
M 416.9760 R 13718



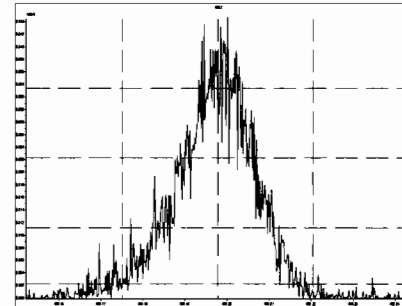
M 430.9728 R 11991



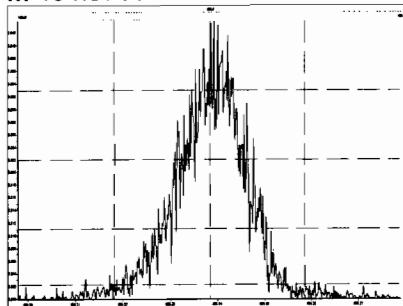
M 442.9728 R 11724



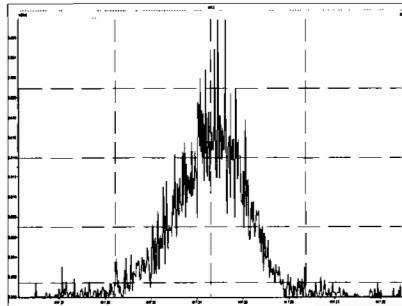
M 454.9728 R 11982



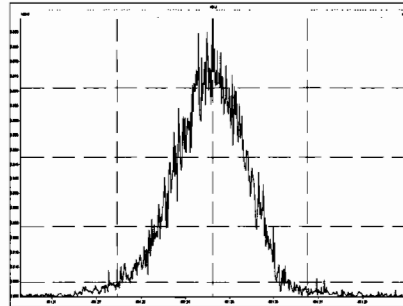
M 404.9760 R 14552



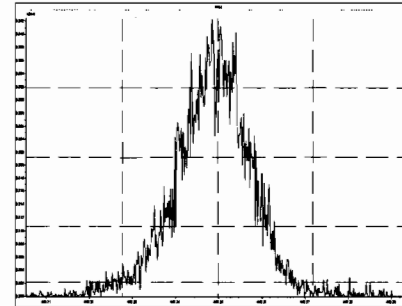
M 416.9760 R 13321



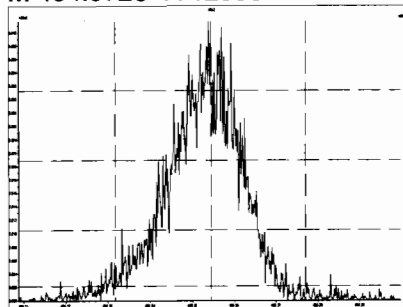
M 430.9728 R 12079



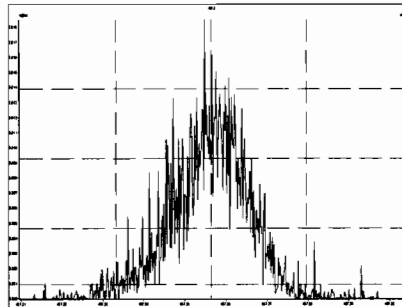
M 442.9728 R 12469



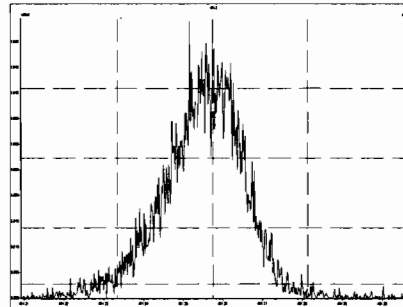
M 454.9728 R 12993



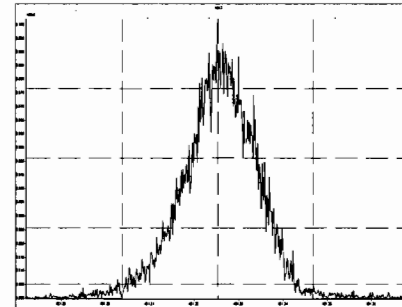
M 466.9728 R 14956



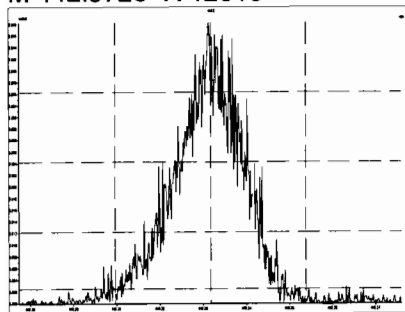
M 480.9696 R 11933



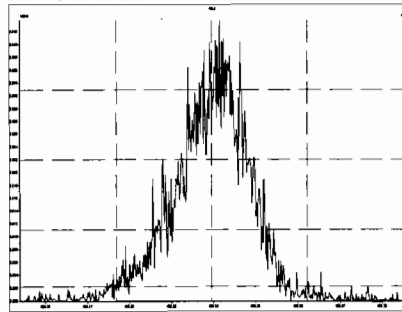
M 430.9728 R 11933



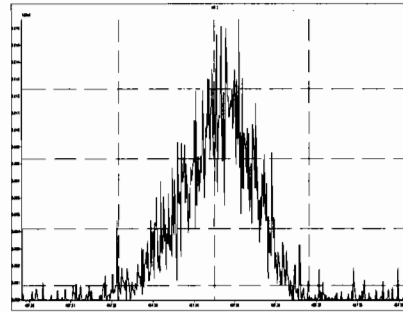
M 442.9728 R 12315



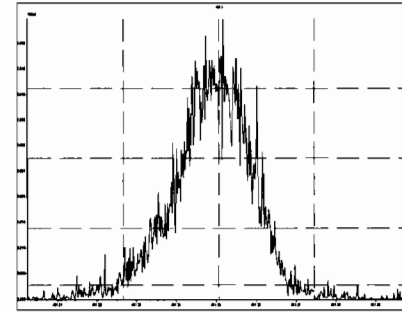
M 454.9728 R 13208



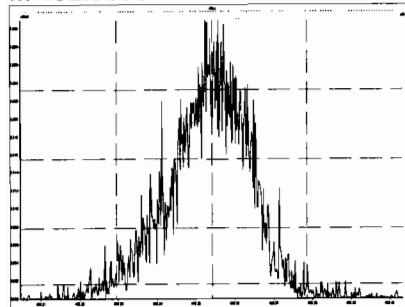
M 466.9728 R 13303



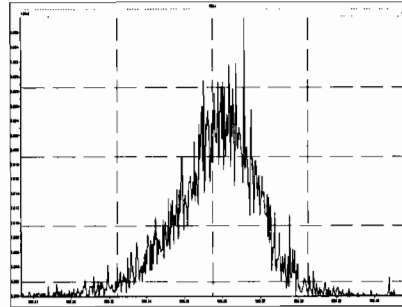
M 480.9696 R 11337



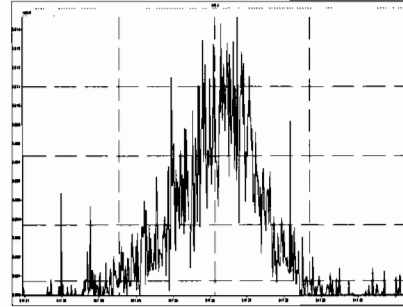
M 492.9696 R 11938



M 504.9696 R 11940



M 516.9697 R 14672





## **INITIAL CALIBRATION**

Data filename: 191009D1  
 Samp# 1 0.25 Samp# 2 0.50 Samp# 3 2.0 Samp# 4 10 Samp# 5 40 Samp# 6 300

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*  
*10/10/14*

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  
10/10/19

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  
10/10/19

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

10/10/19

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

DB  
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

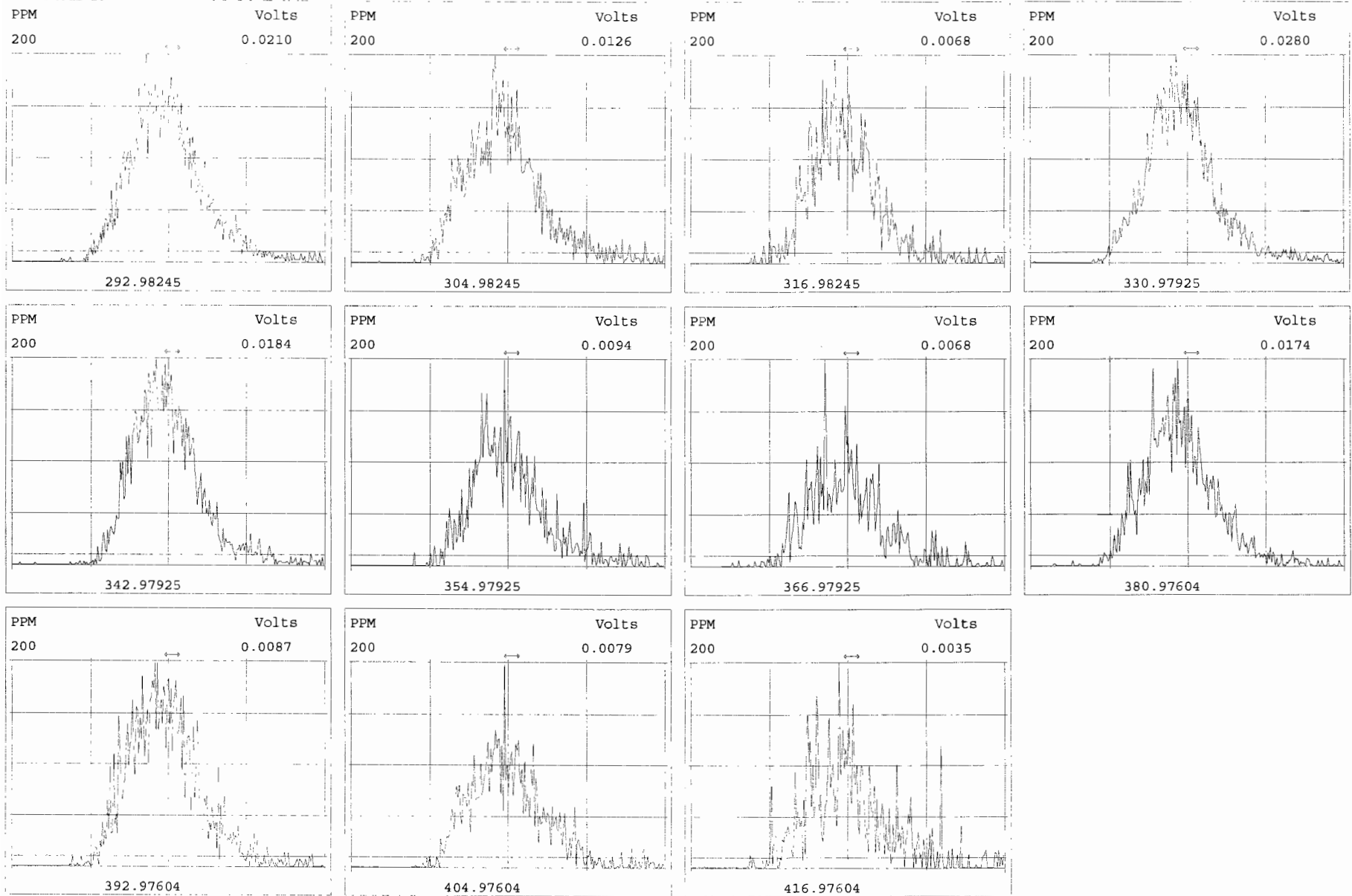
% VALLEY HEIGHT  
BETWEEN  
COMPARED PEAKS (1)

<25%

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

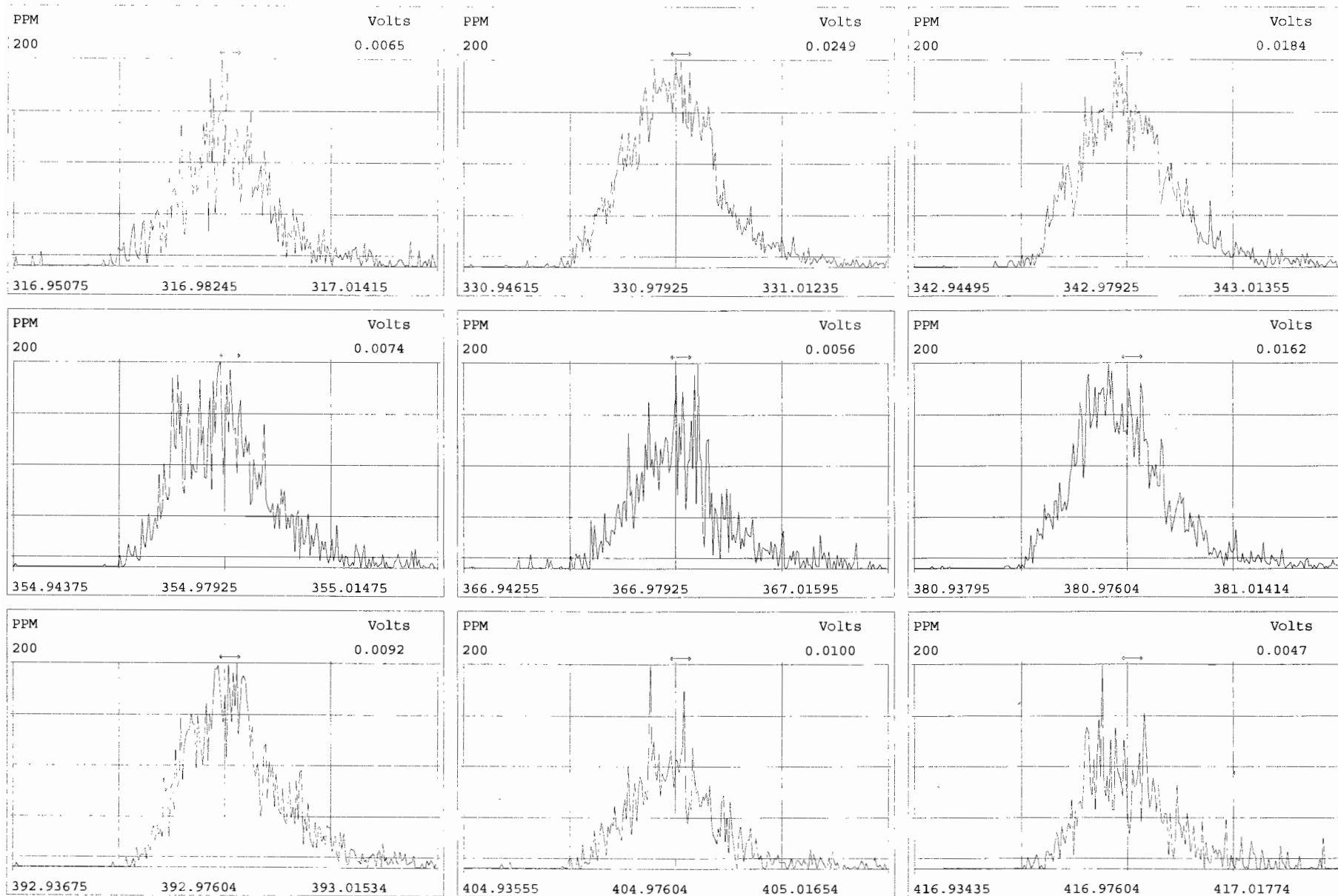
Analyst: DB

Date: 10/10/19



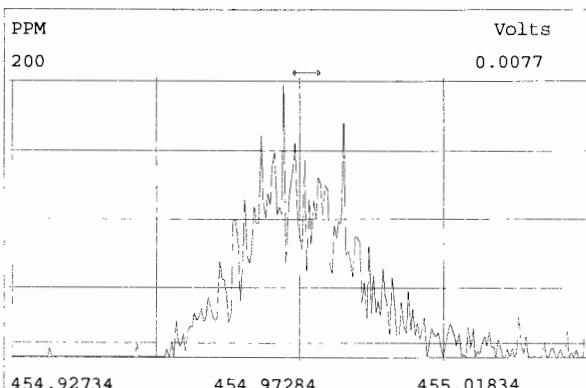
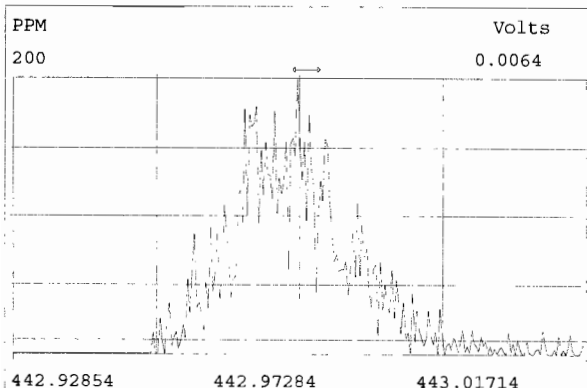
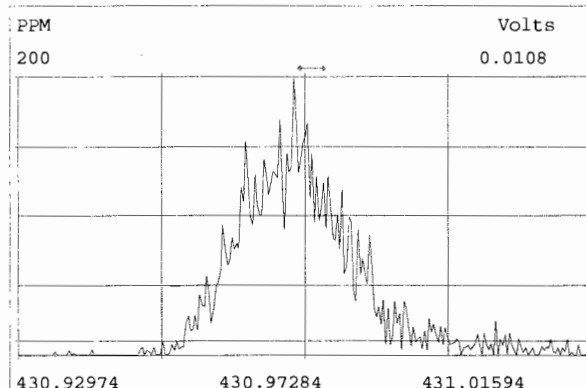
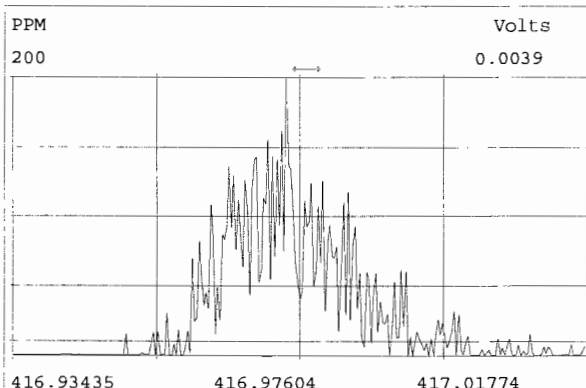
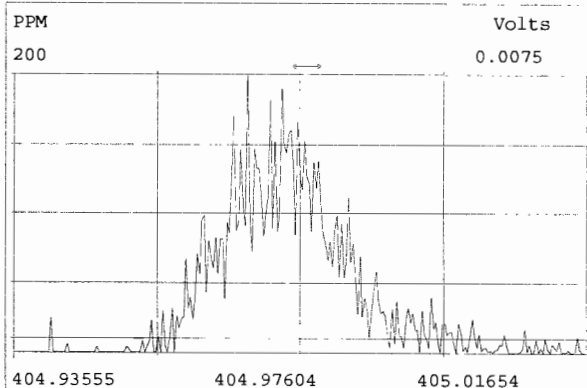
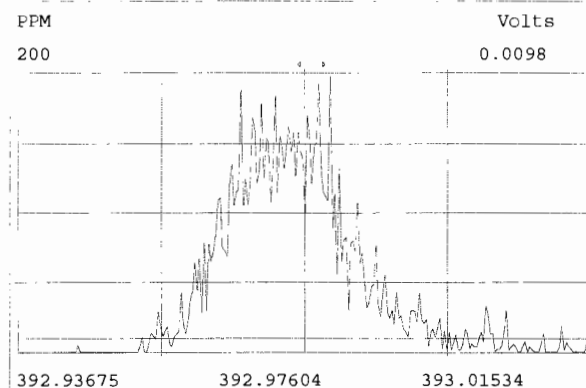
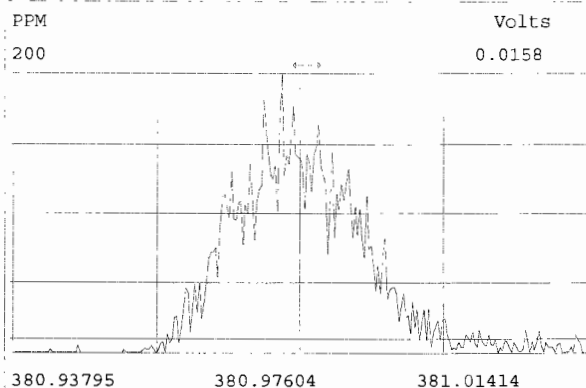
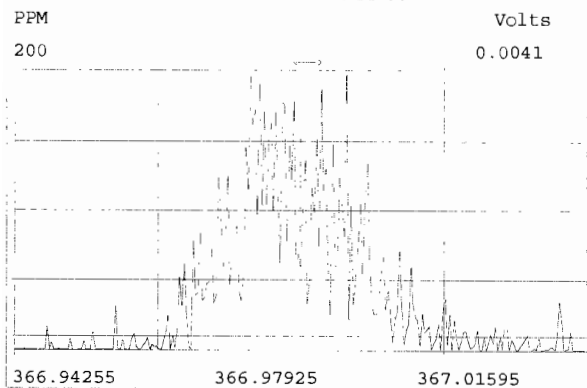
Peak Locate Examination: 9-OCT-2019:16:10 File:191009D1

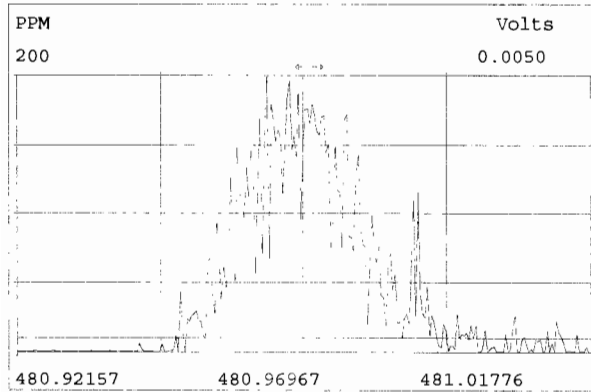
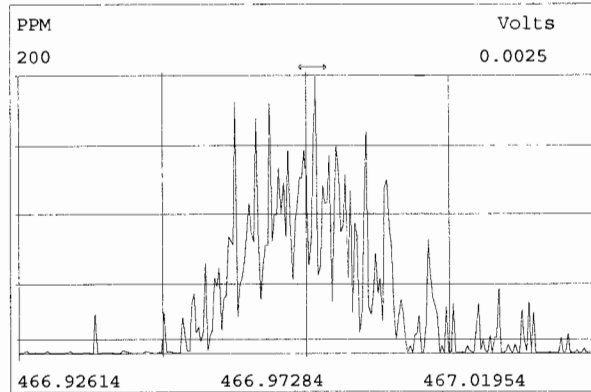
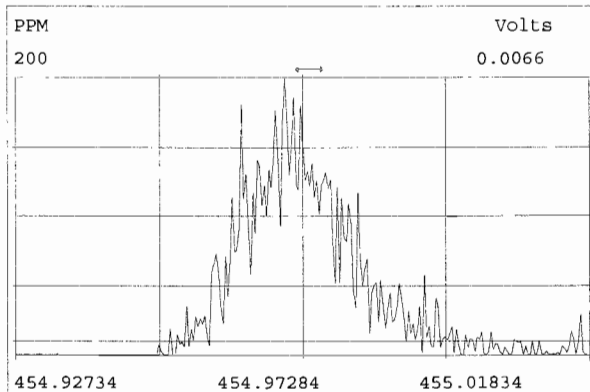
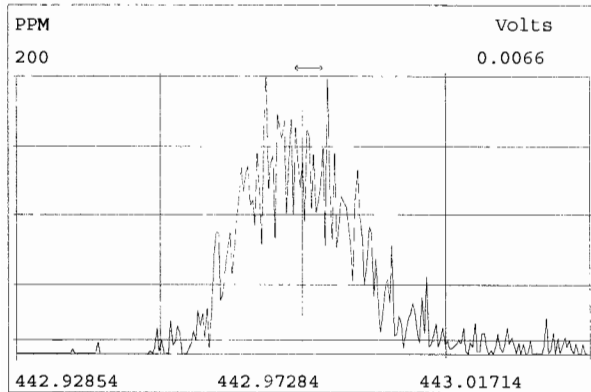
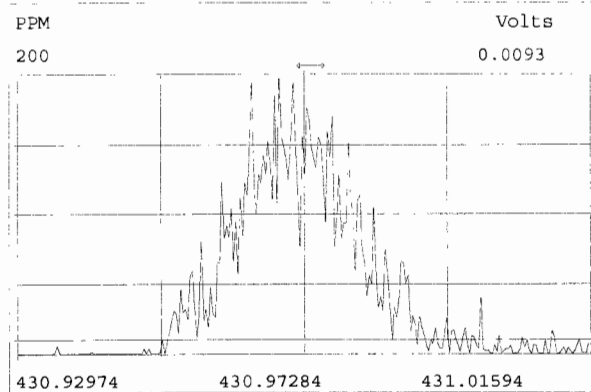
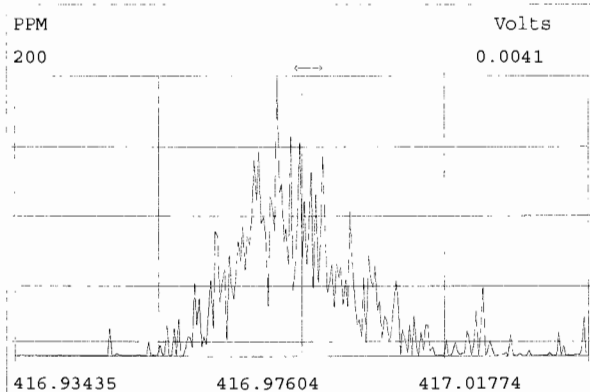
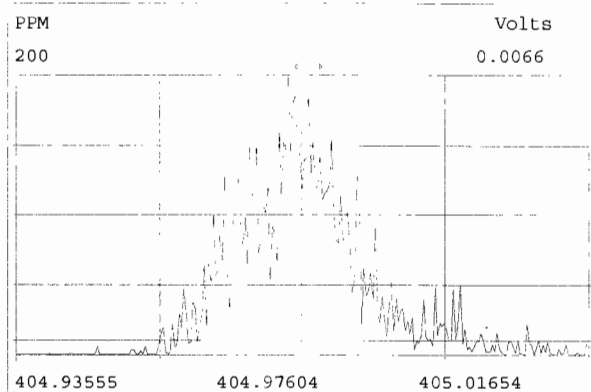
Experiment:OCDD\_DB5 Function:2 Reference:PFK

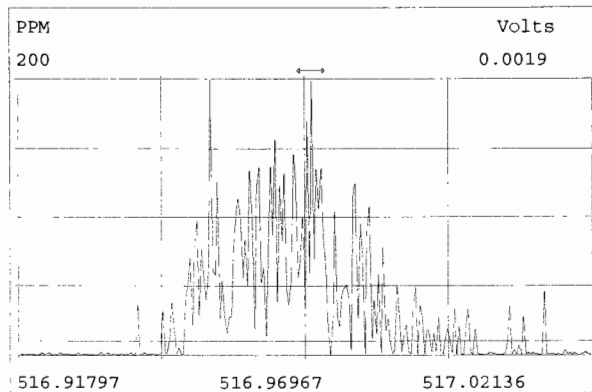
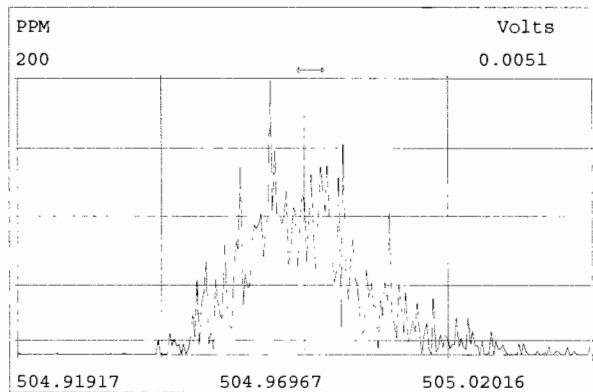
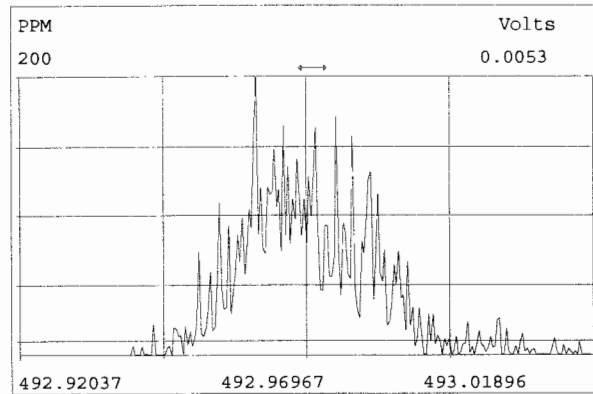
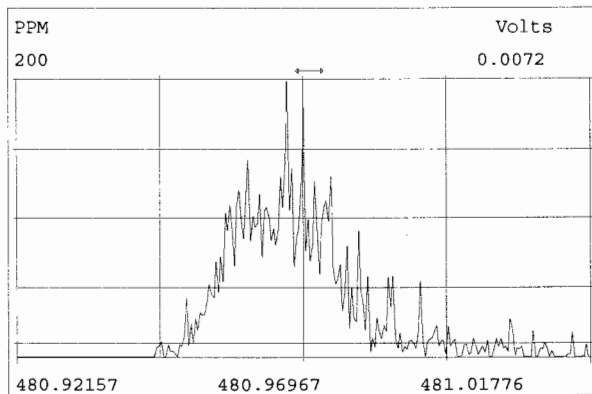
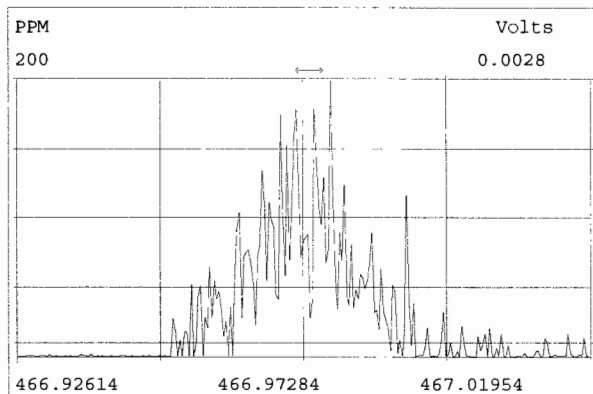
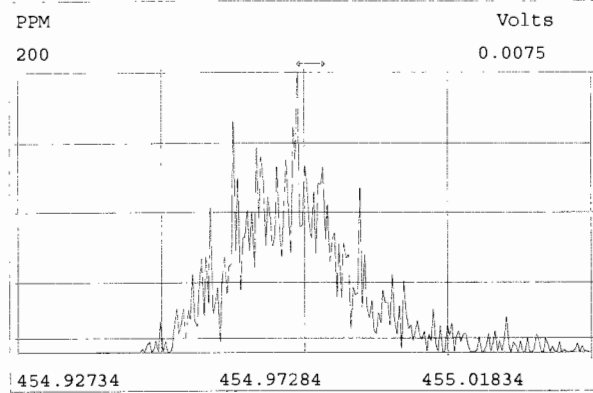
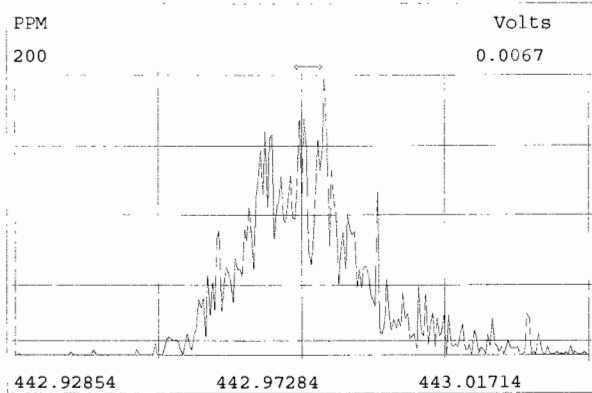
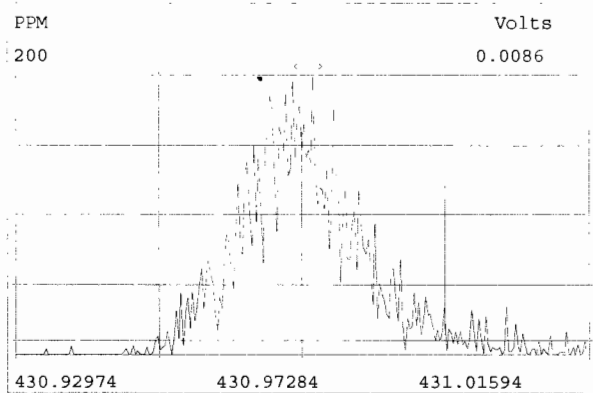


Peak Locate Examination: 9-OCT-2019:16:11 File:191009D1

Experiment:OCDD\_DB5 Function:3 Reference:PFK





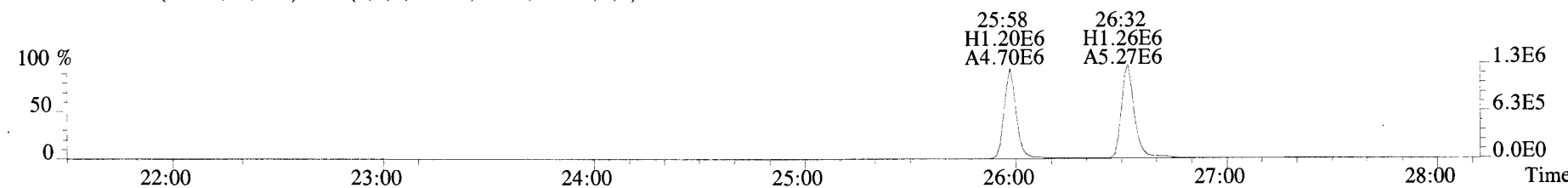
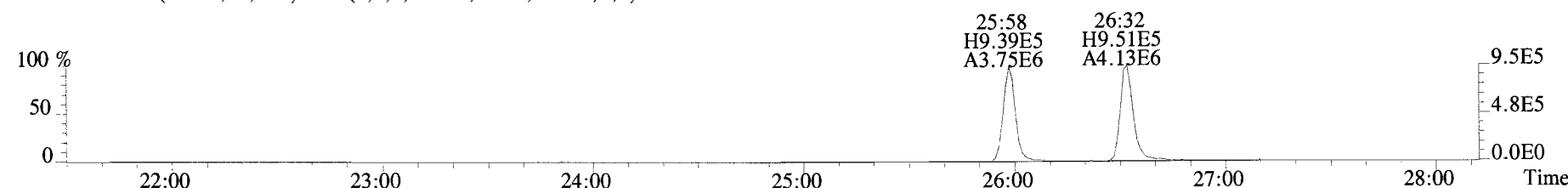
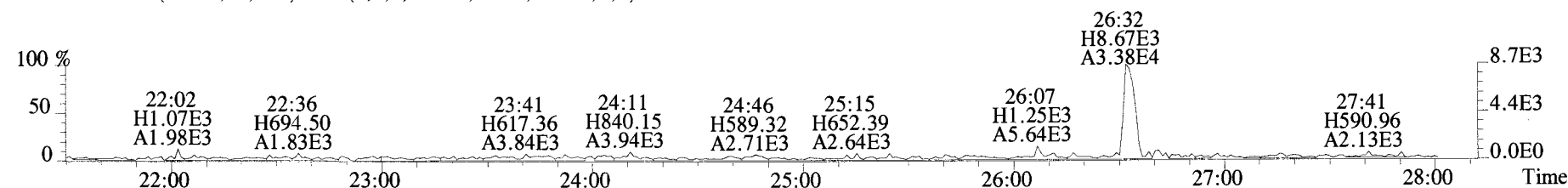
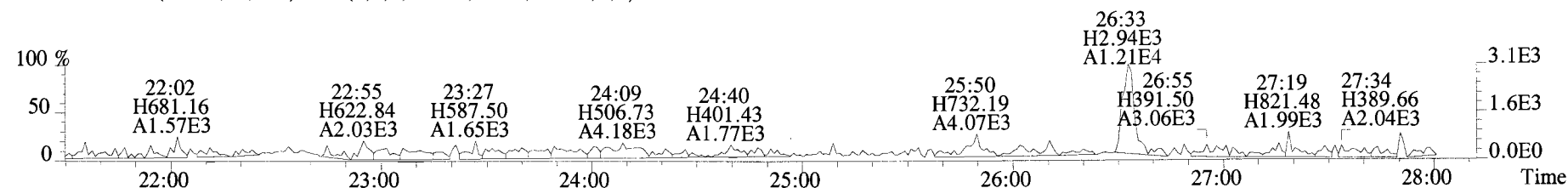
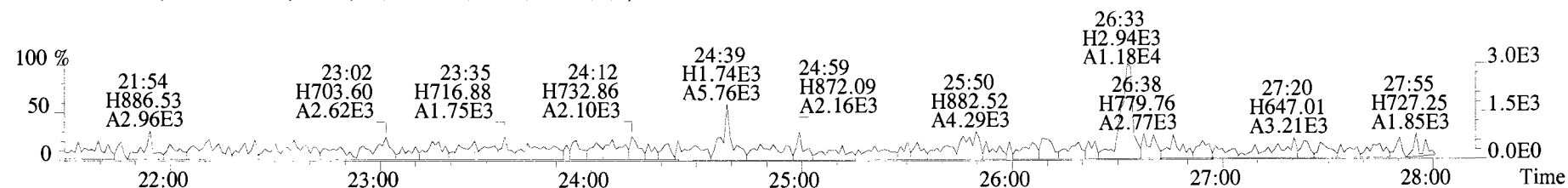




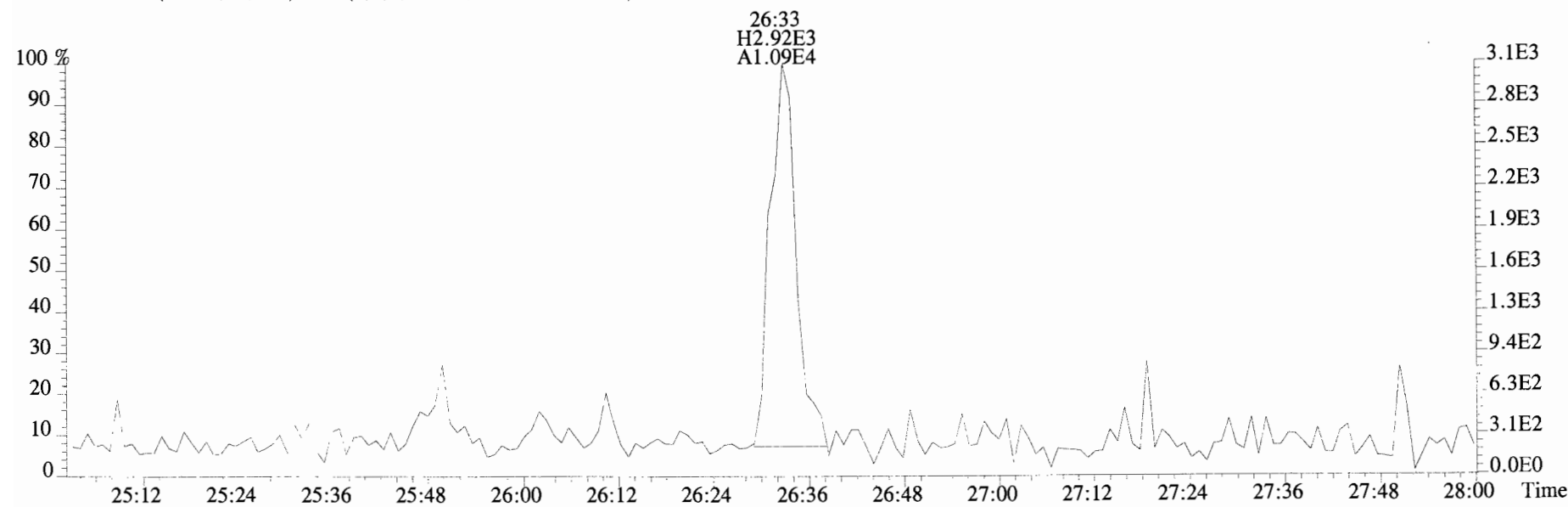
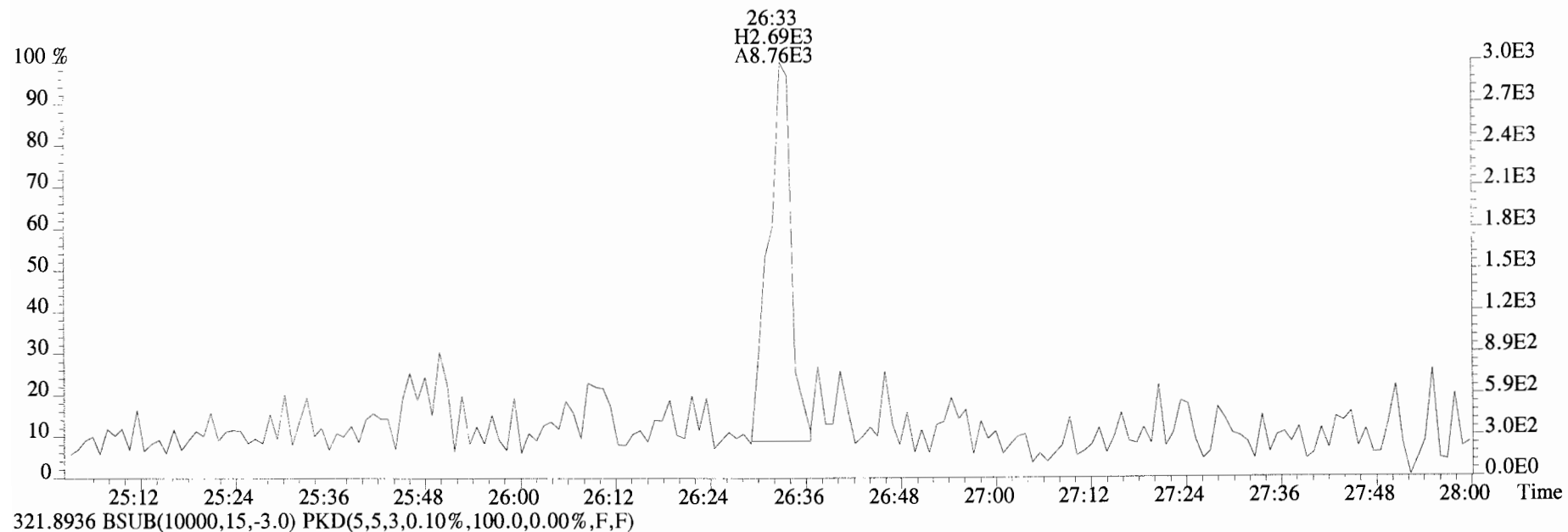
Vista Analytical Laboratory - Injection Log Run file: 191009D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
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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

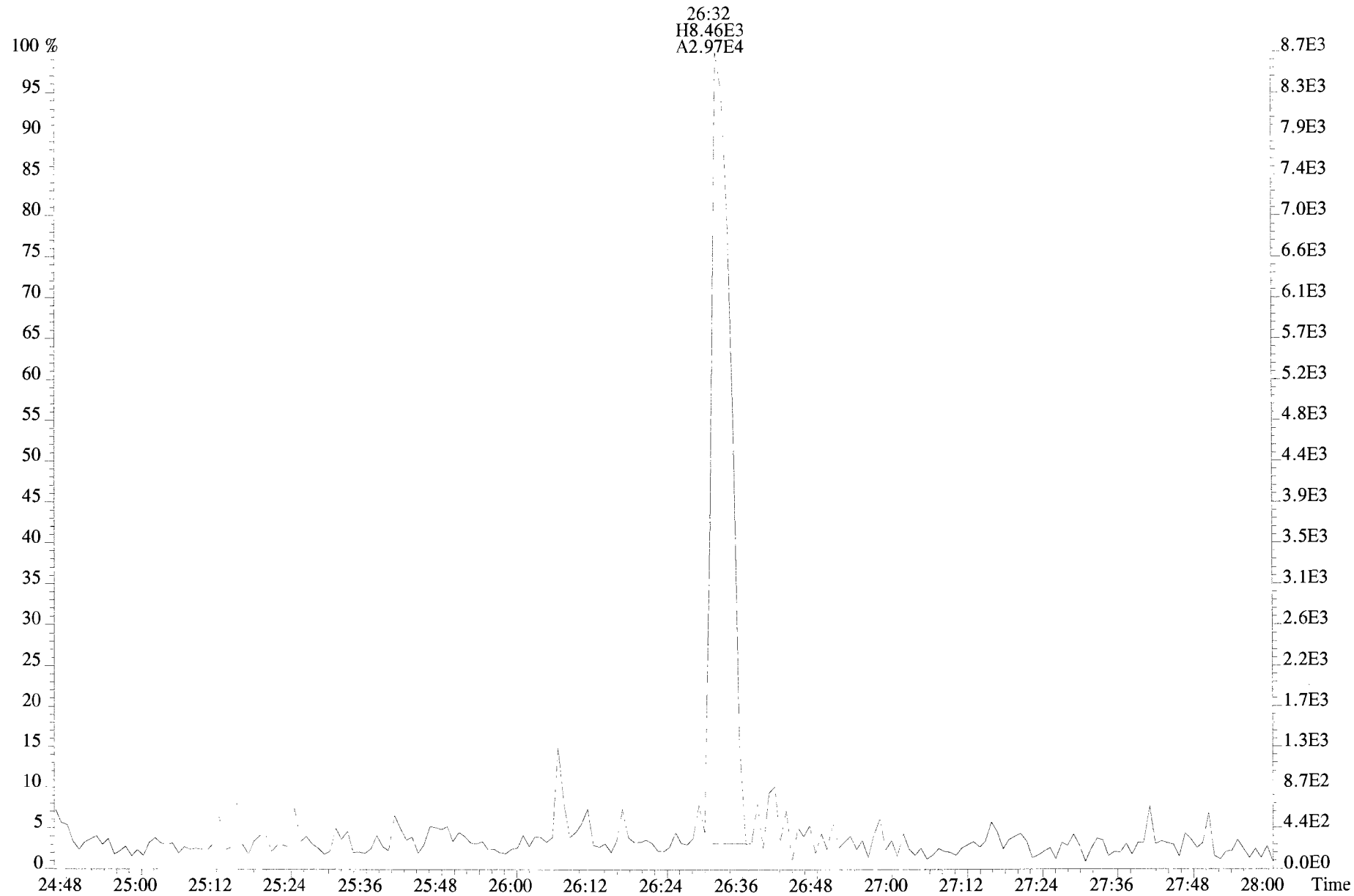
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



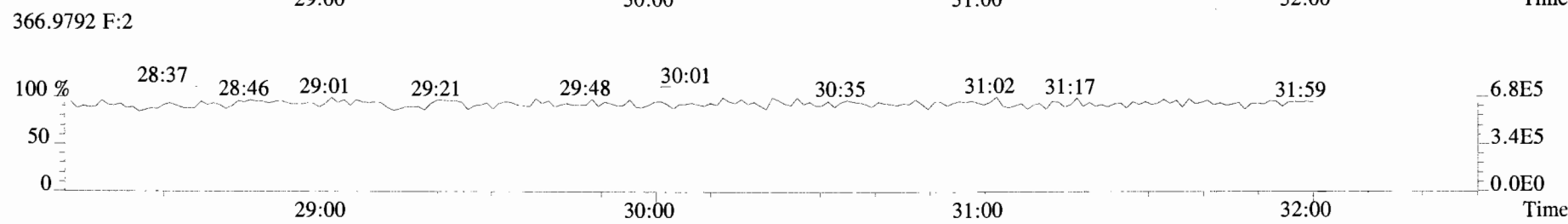
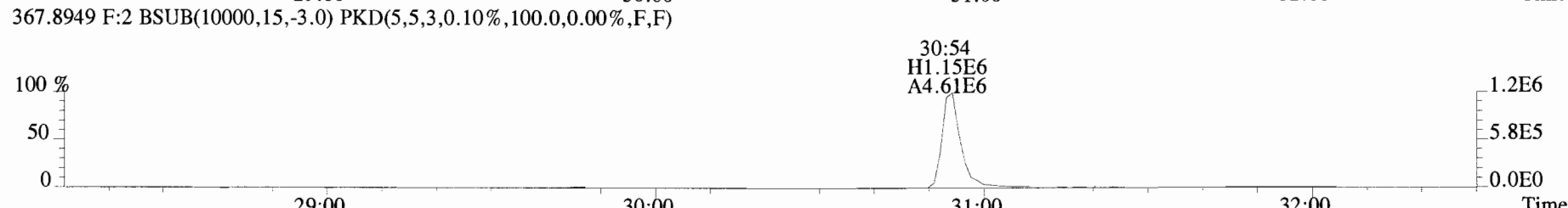
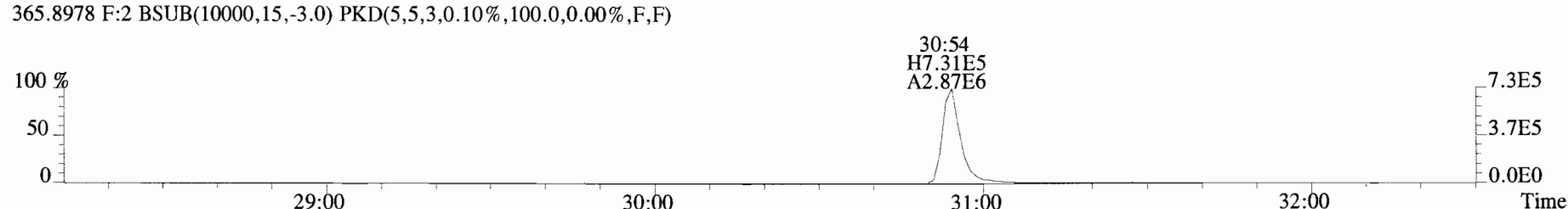
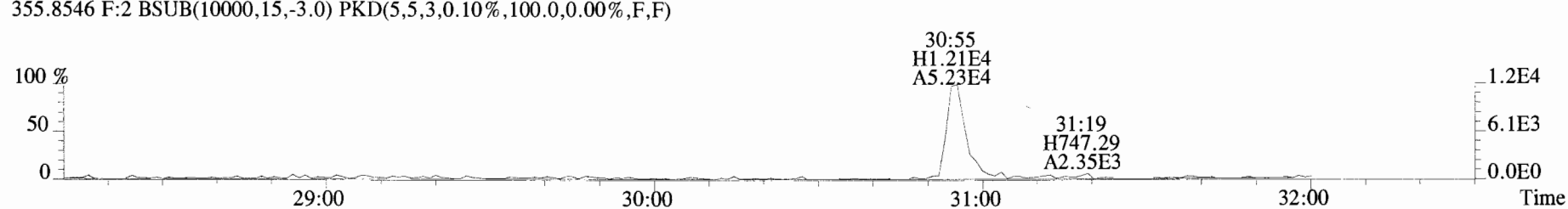
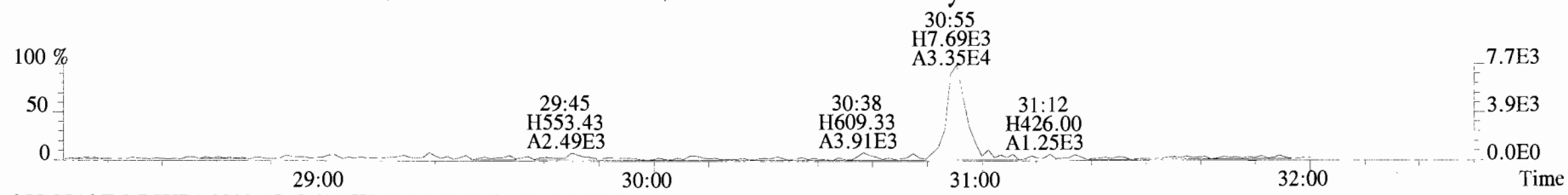
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



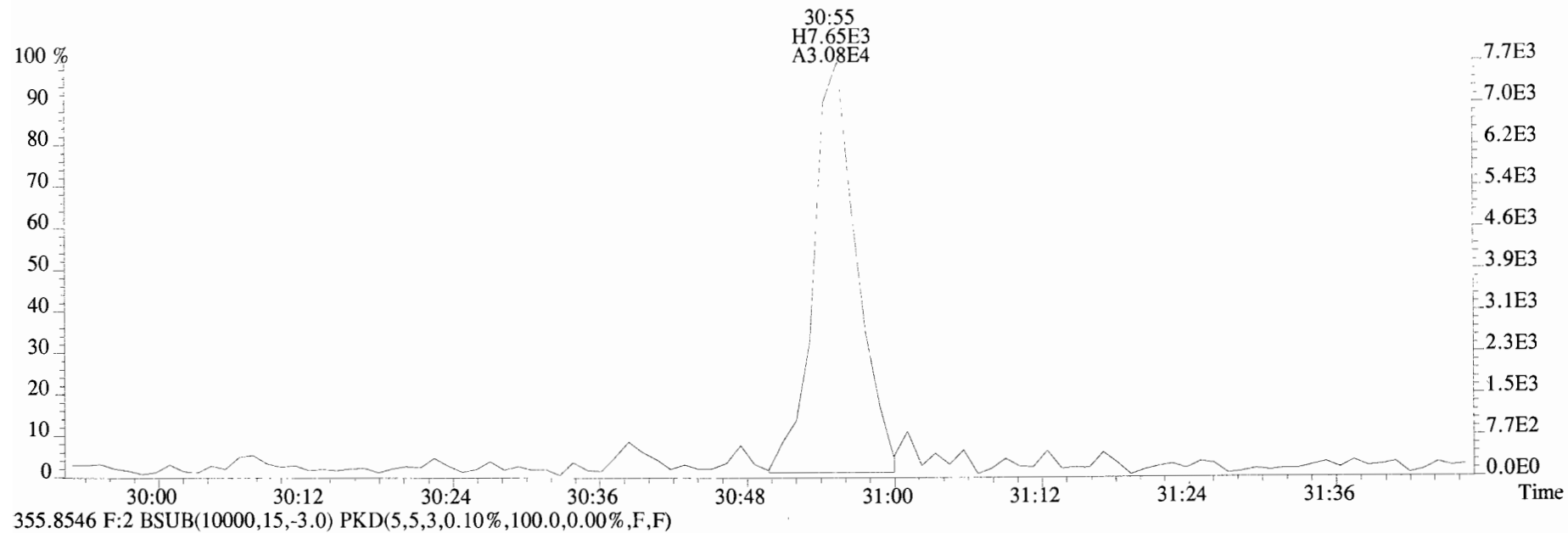
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
327.8847 BSUB(10000,15,-3.0)



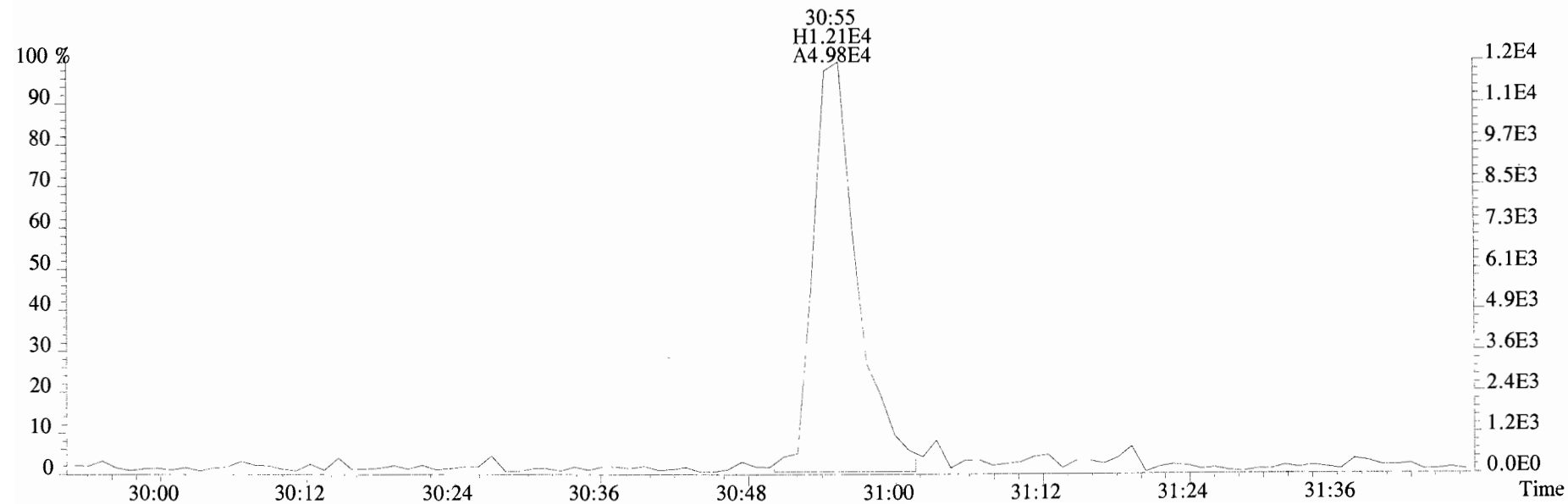
File:191009D1 #1-210 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



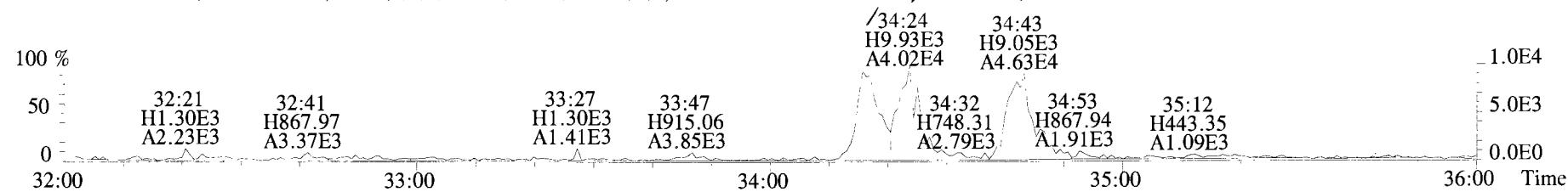
File:191009D1 #1-210 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



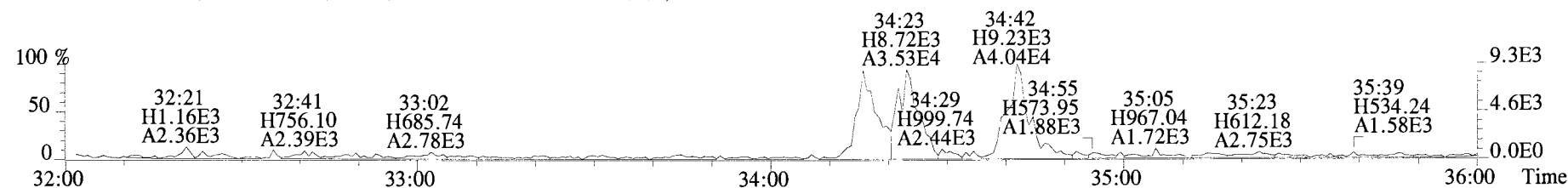
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



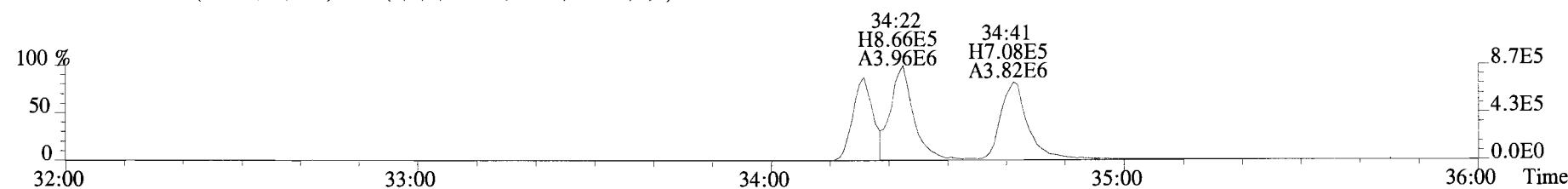
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



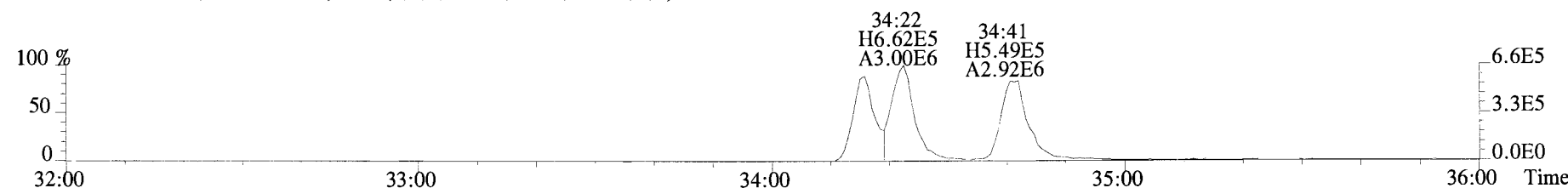
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



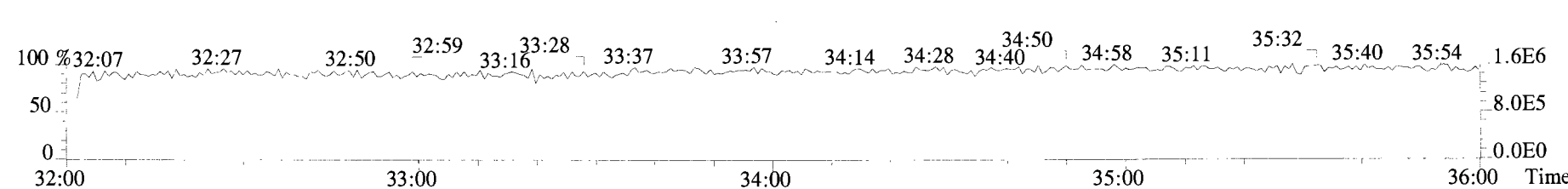
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



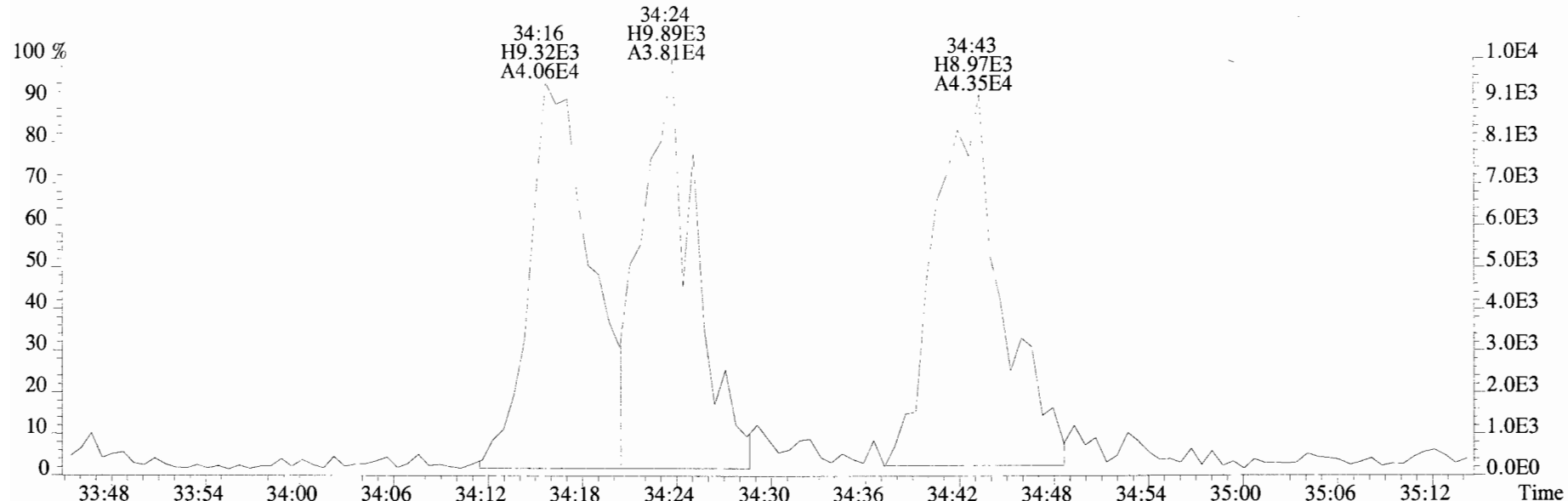
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



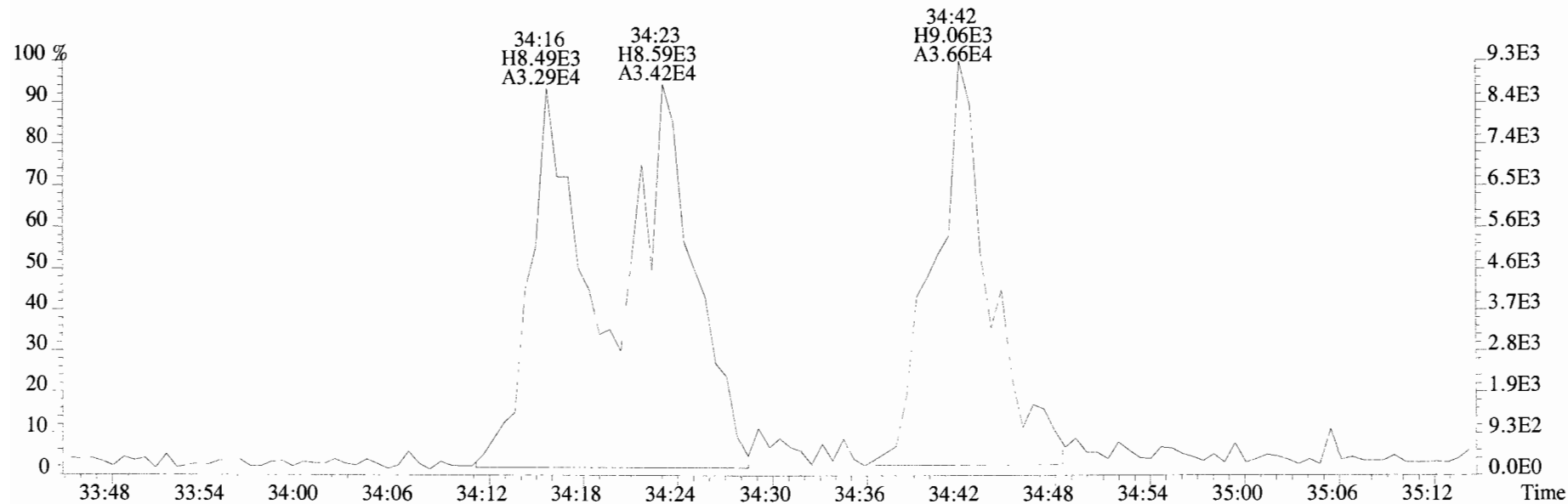
392.9760 F:3



File: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)

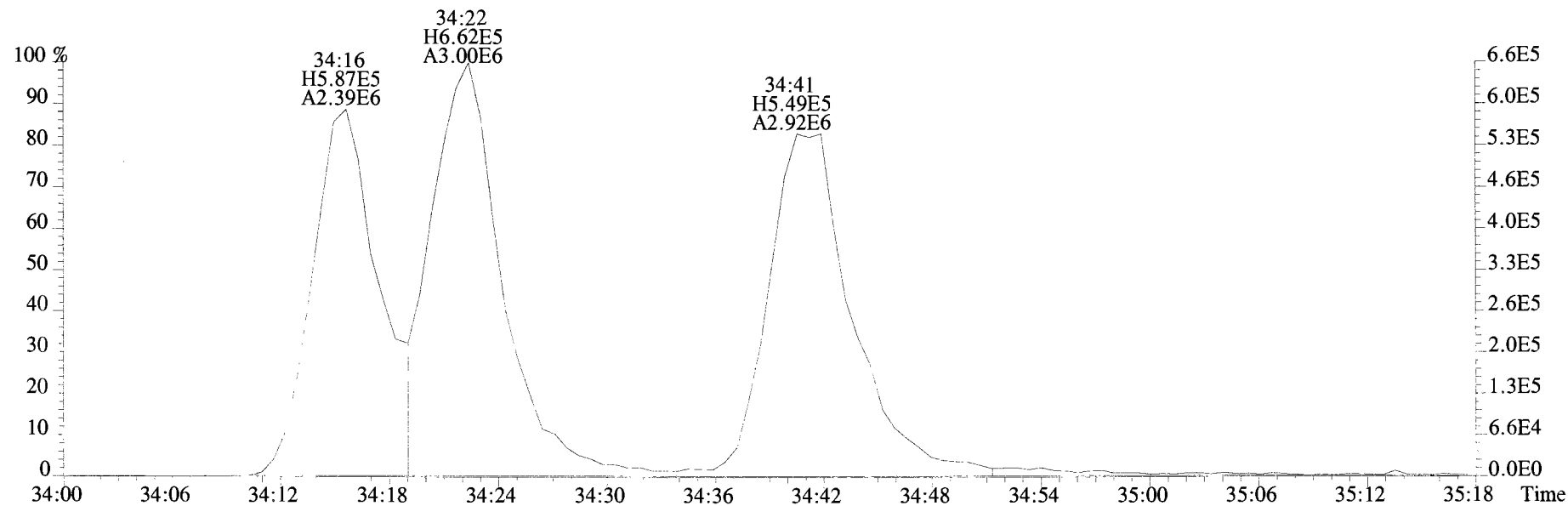
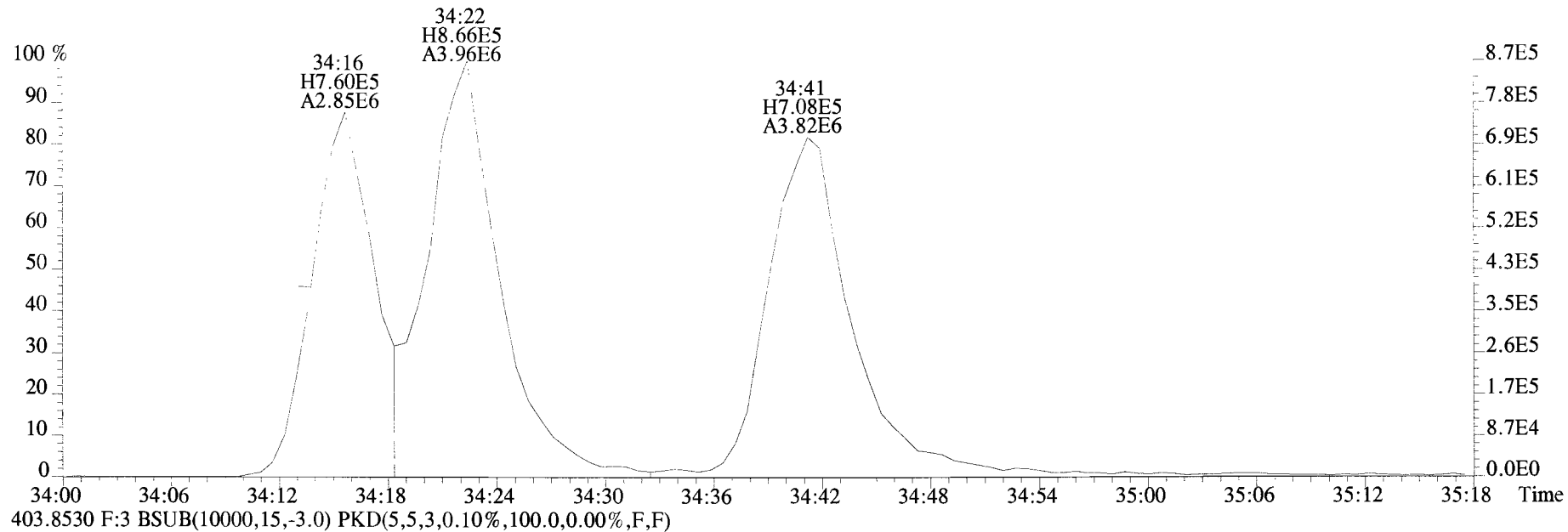


391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

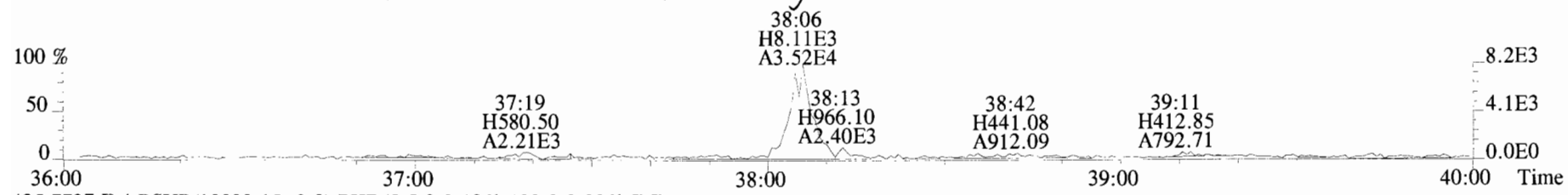




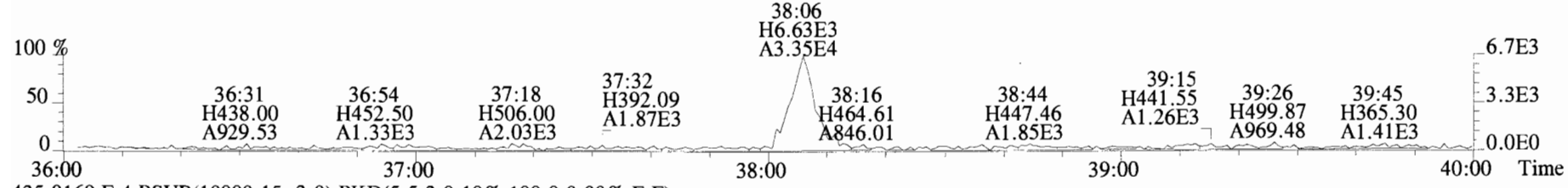
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



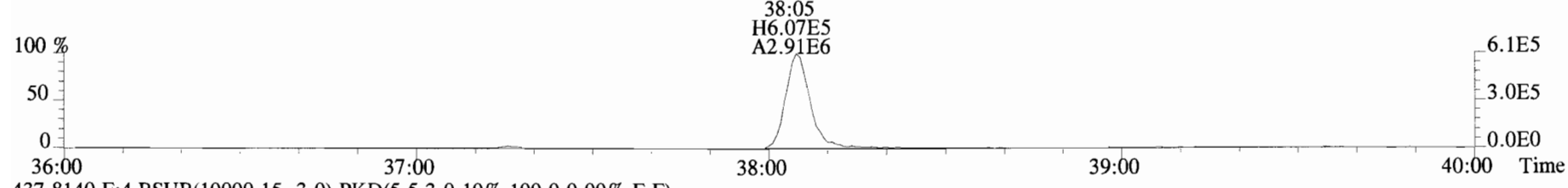
File:191009D1 #1-355 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
 423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



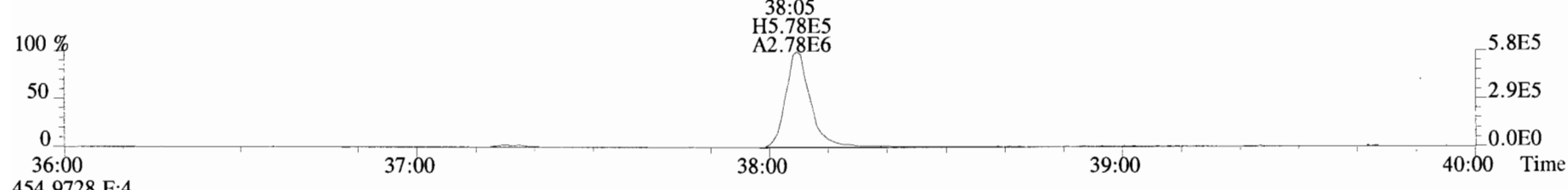
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



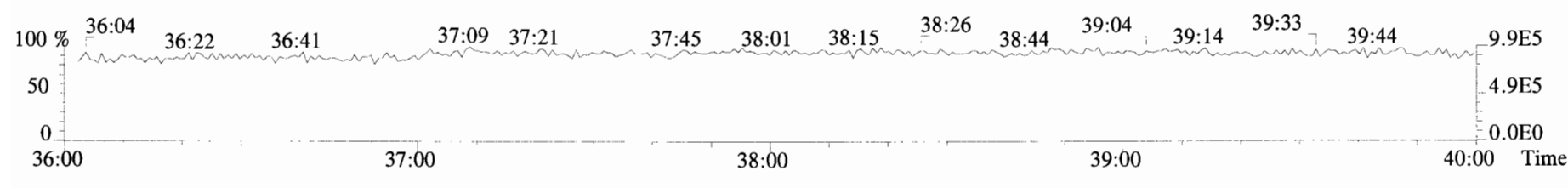
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



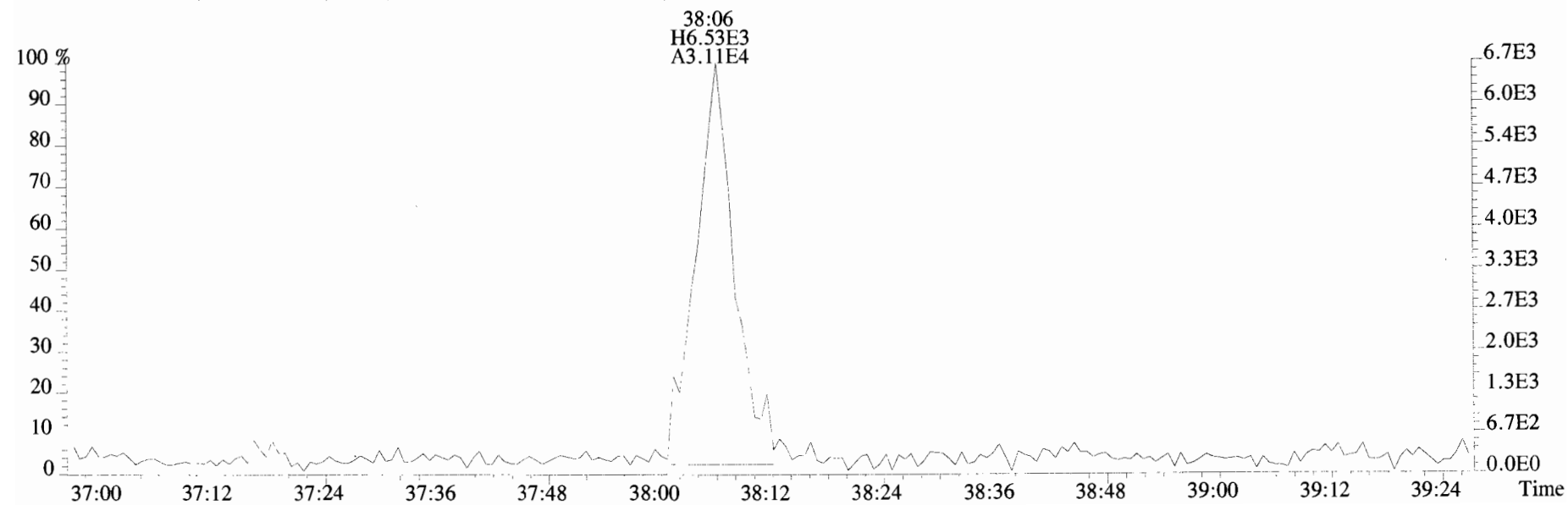
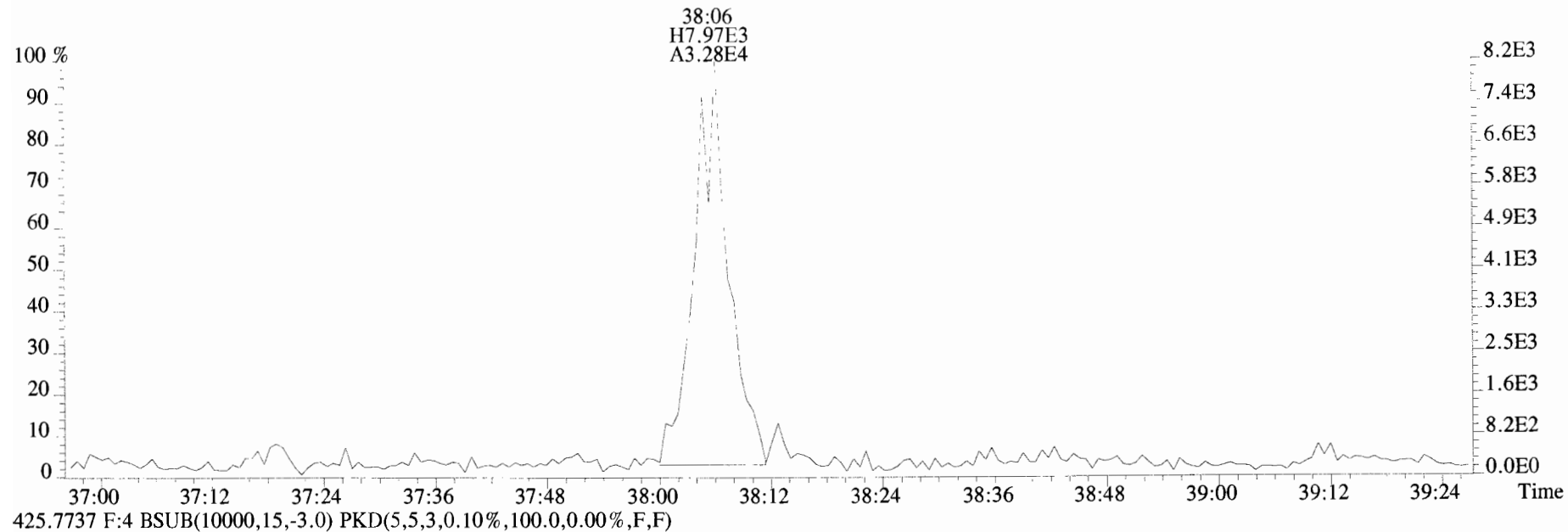
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



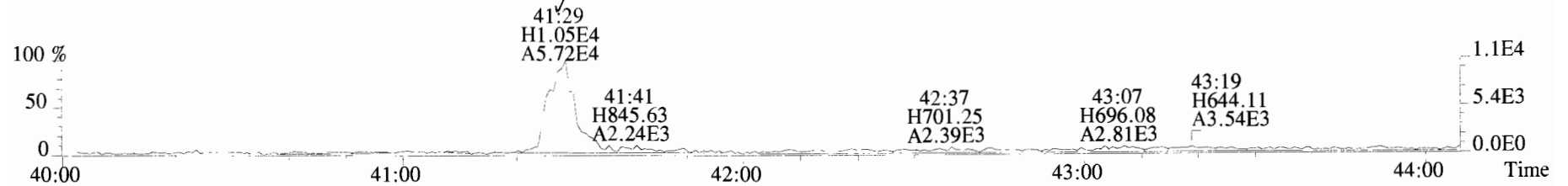
454.9728 F:4



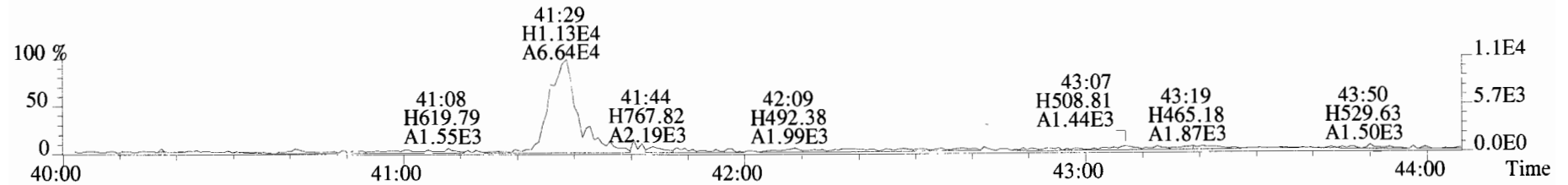
File:191009D1 #1-355 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



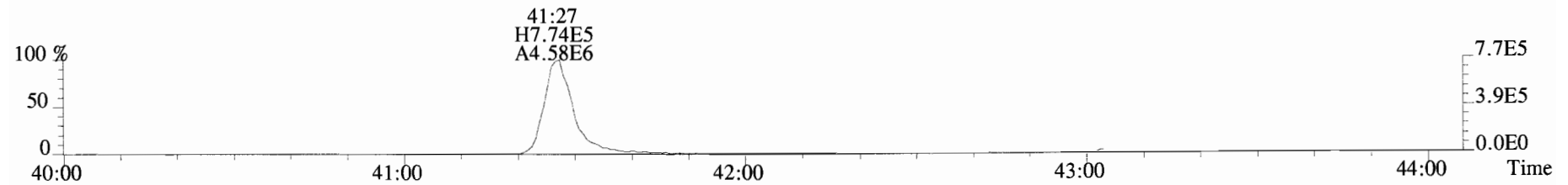
File:191009D1 #1-432 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



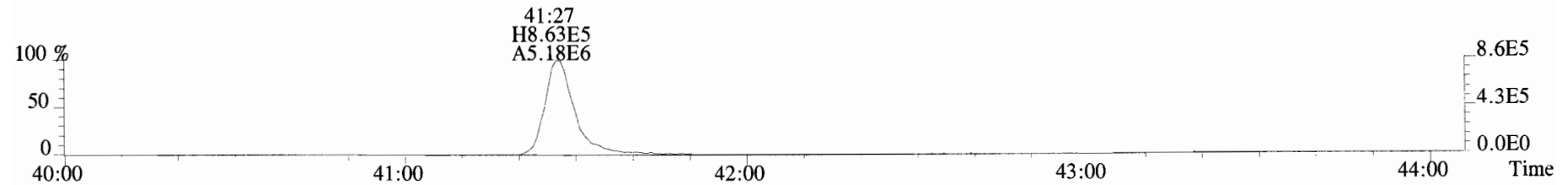
459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



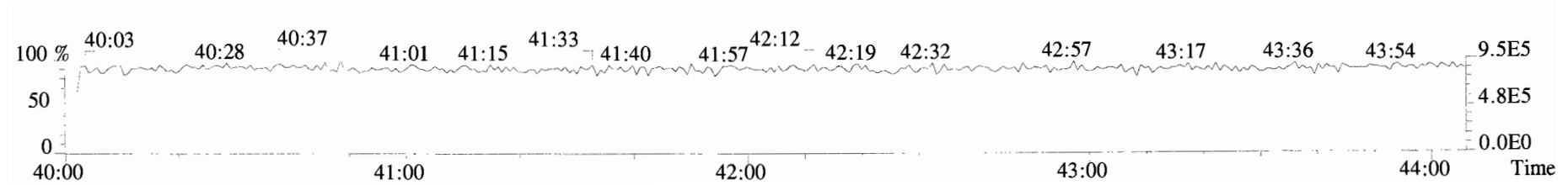
469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



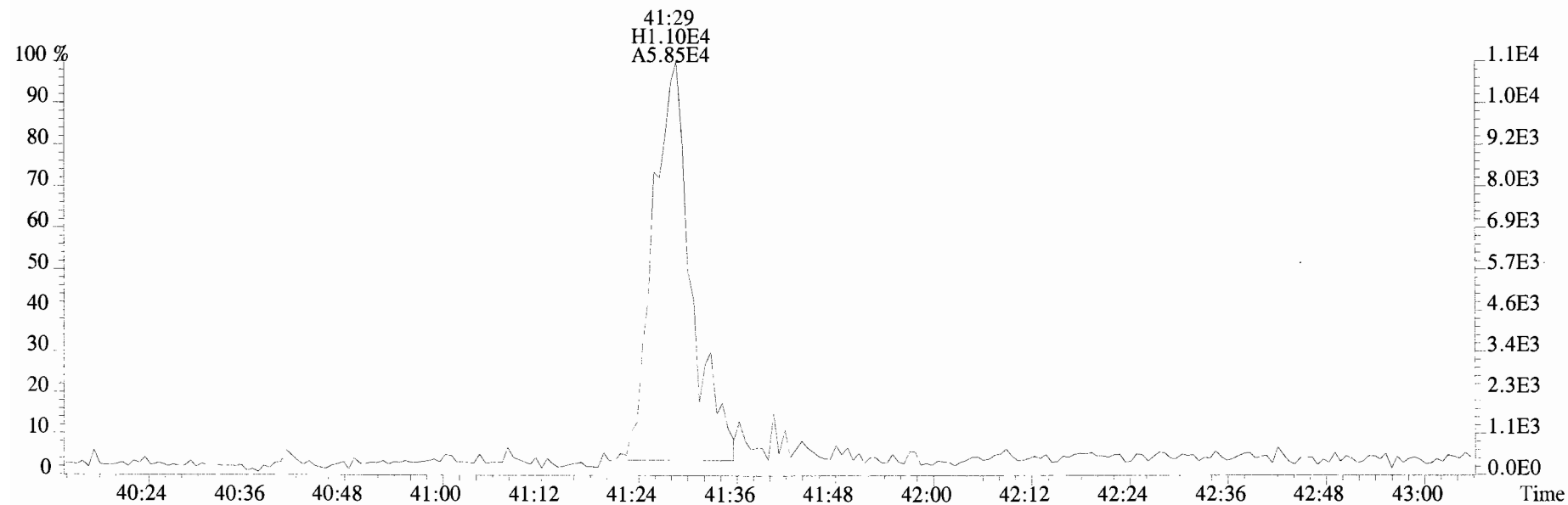
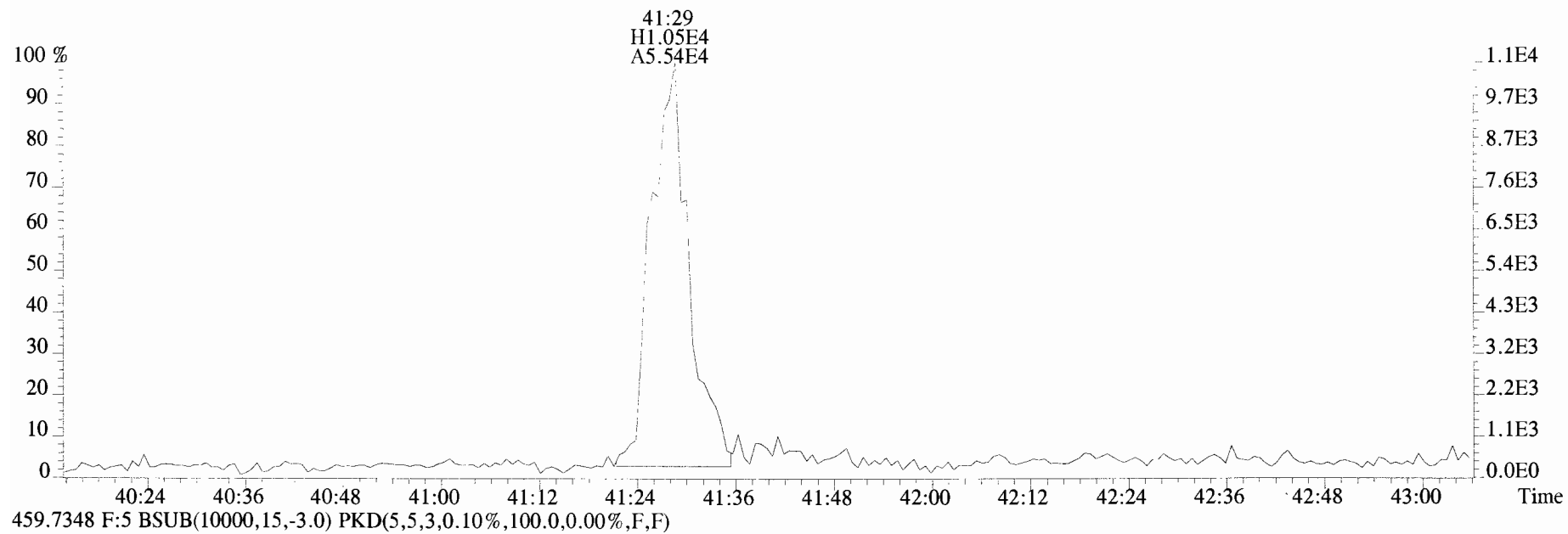
471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



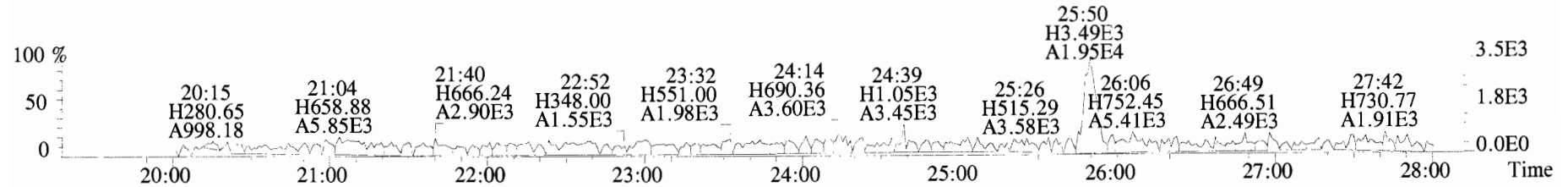
454.9728 F:5



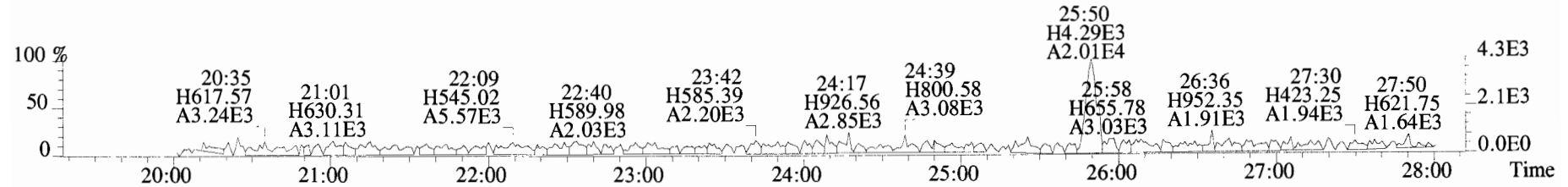
File:191009D1 #1-432 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



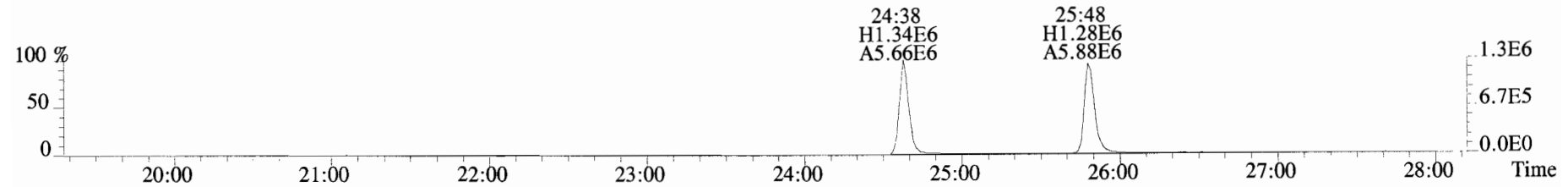
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
 303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



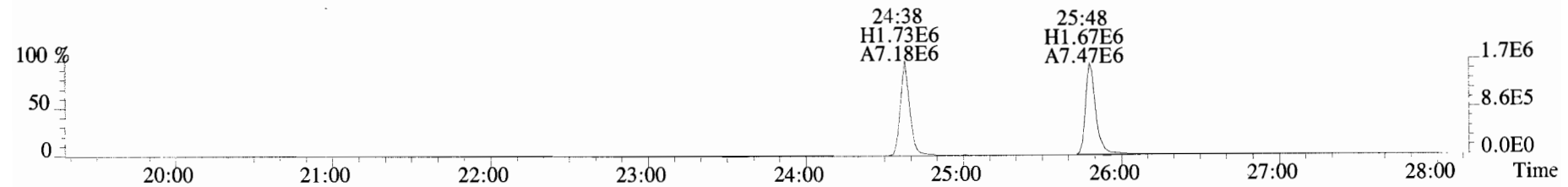
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



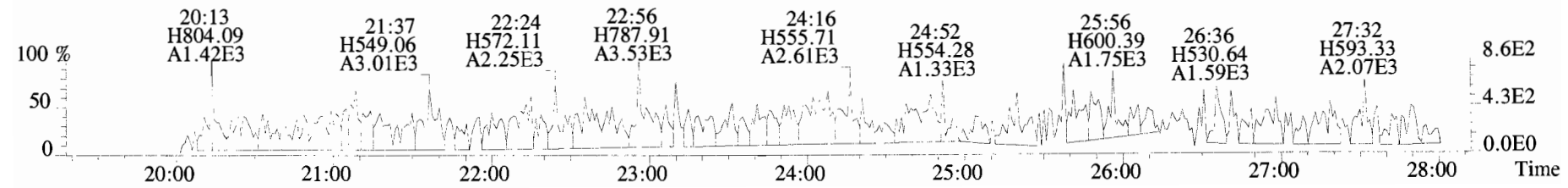
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



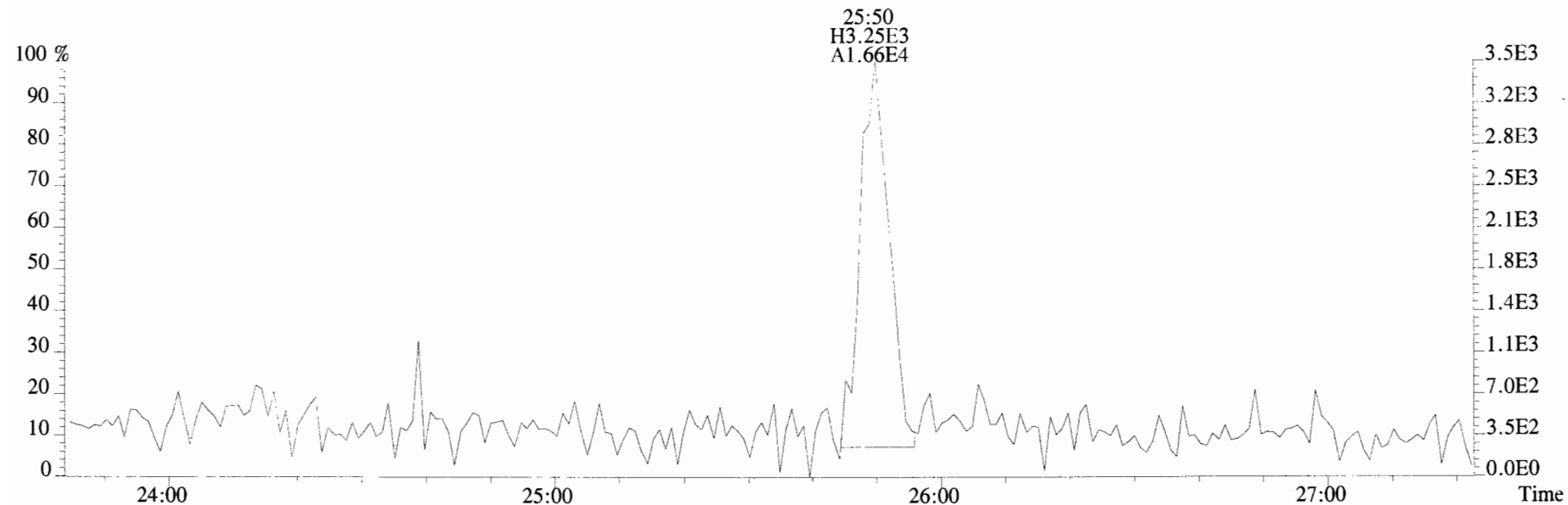
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



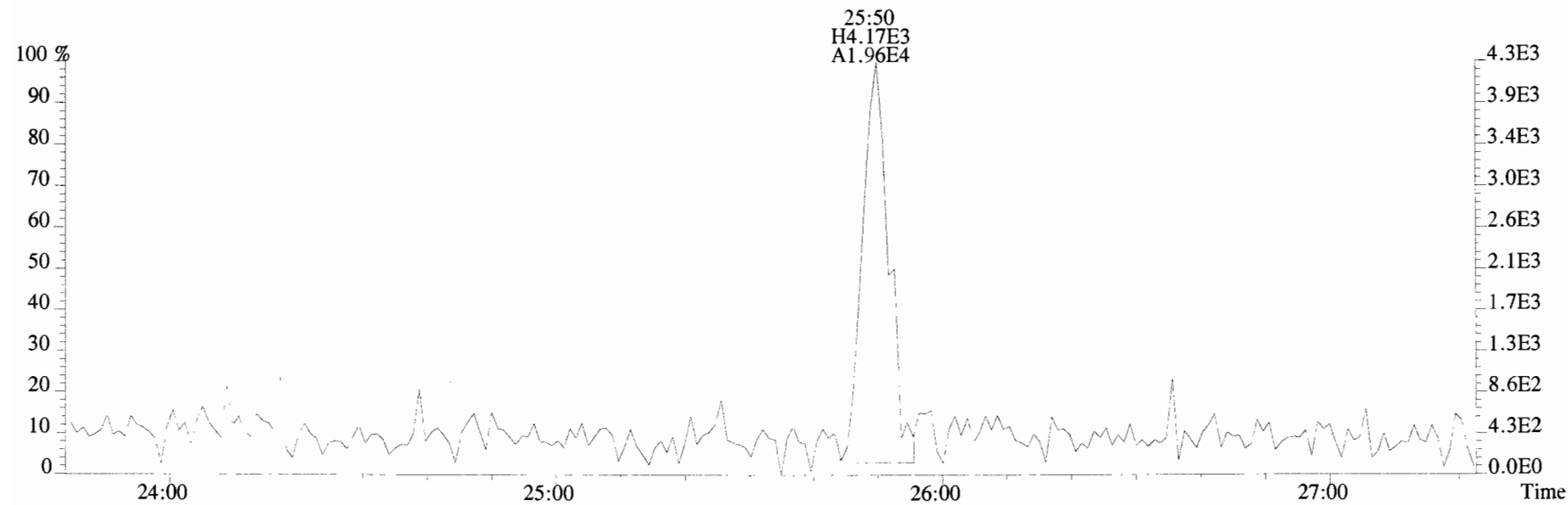
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



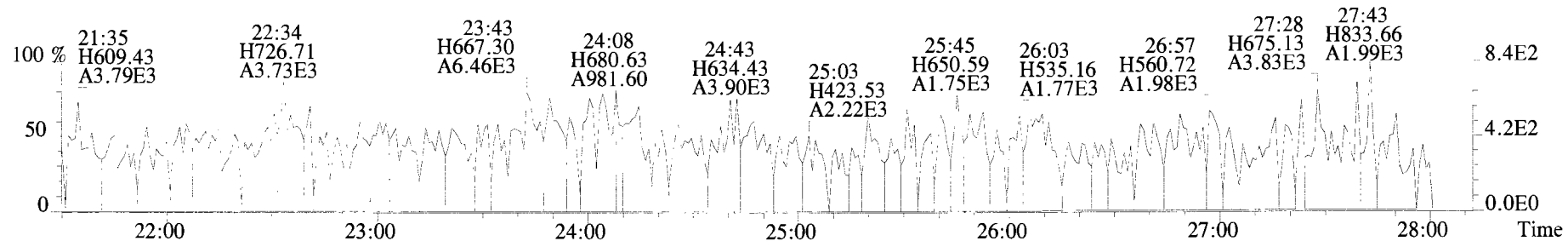
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



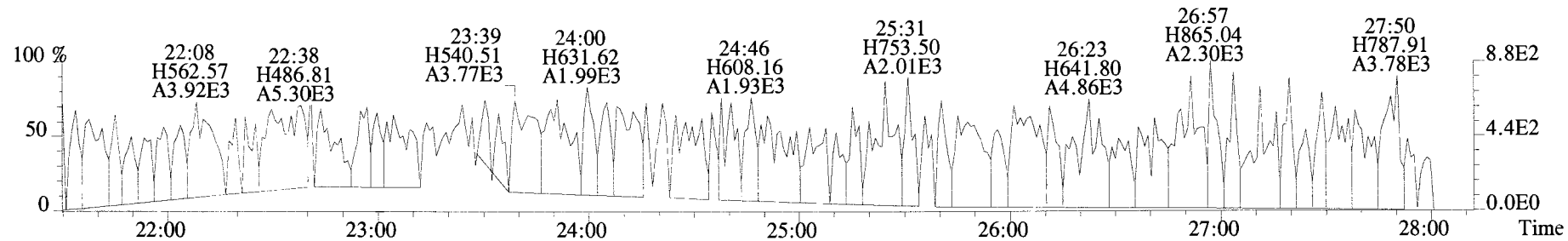
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



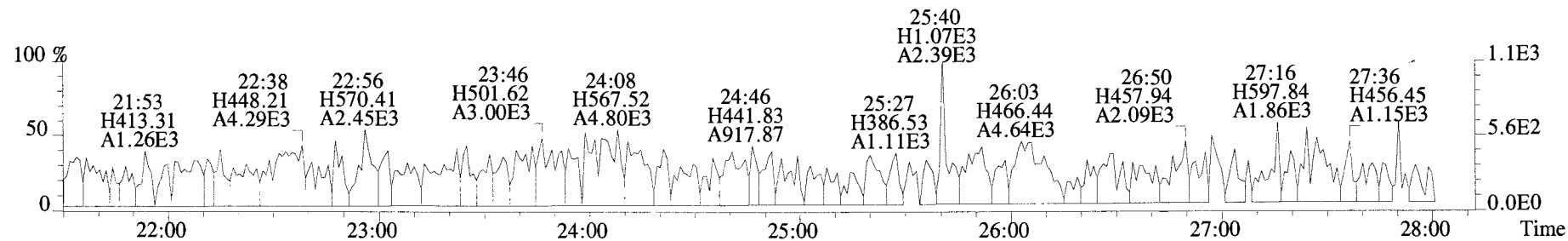
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



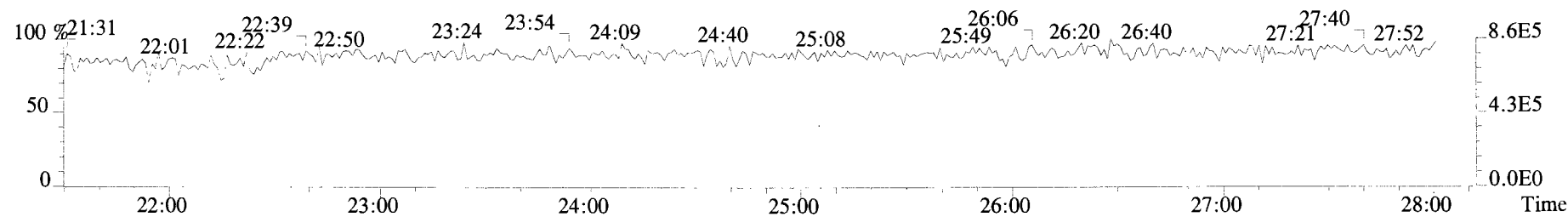
341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

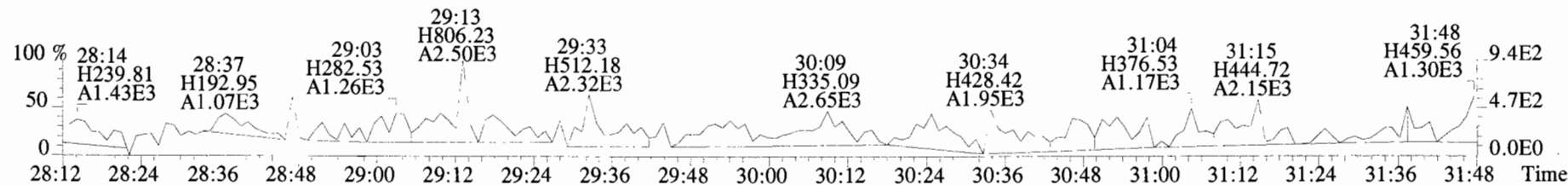
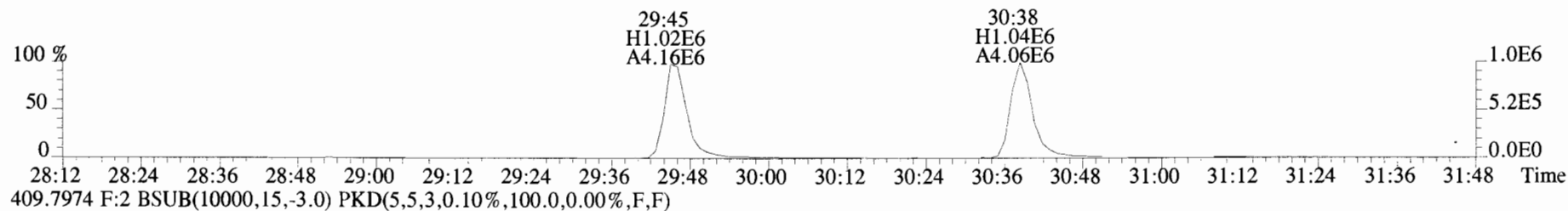
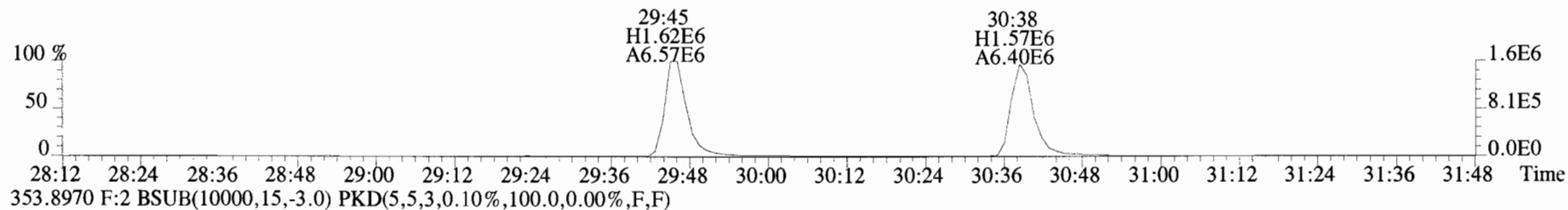
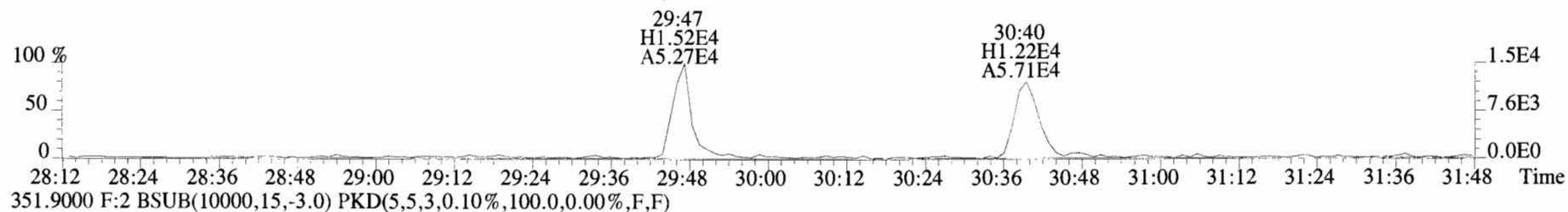
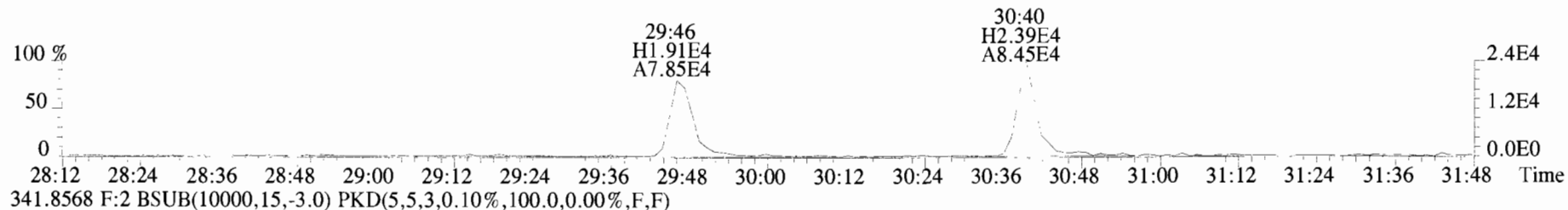


316.9824

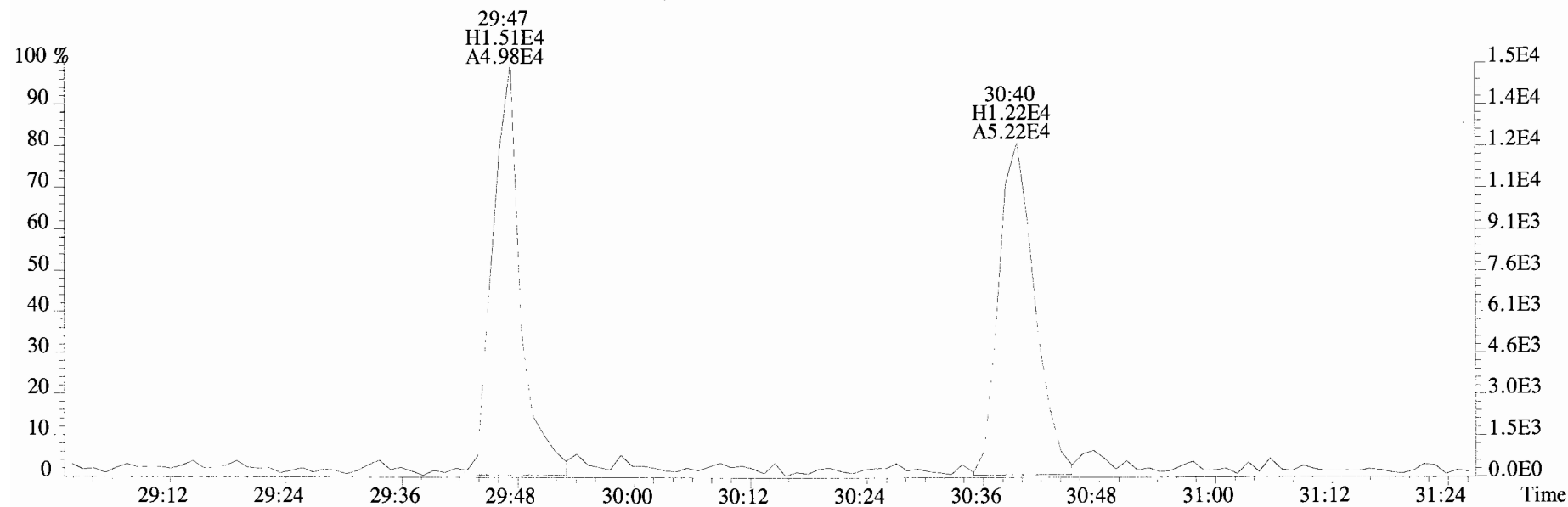
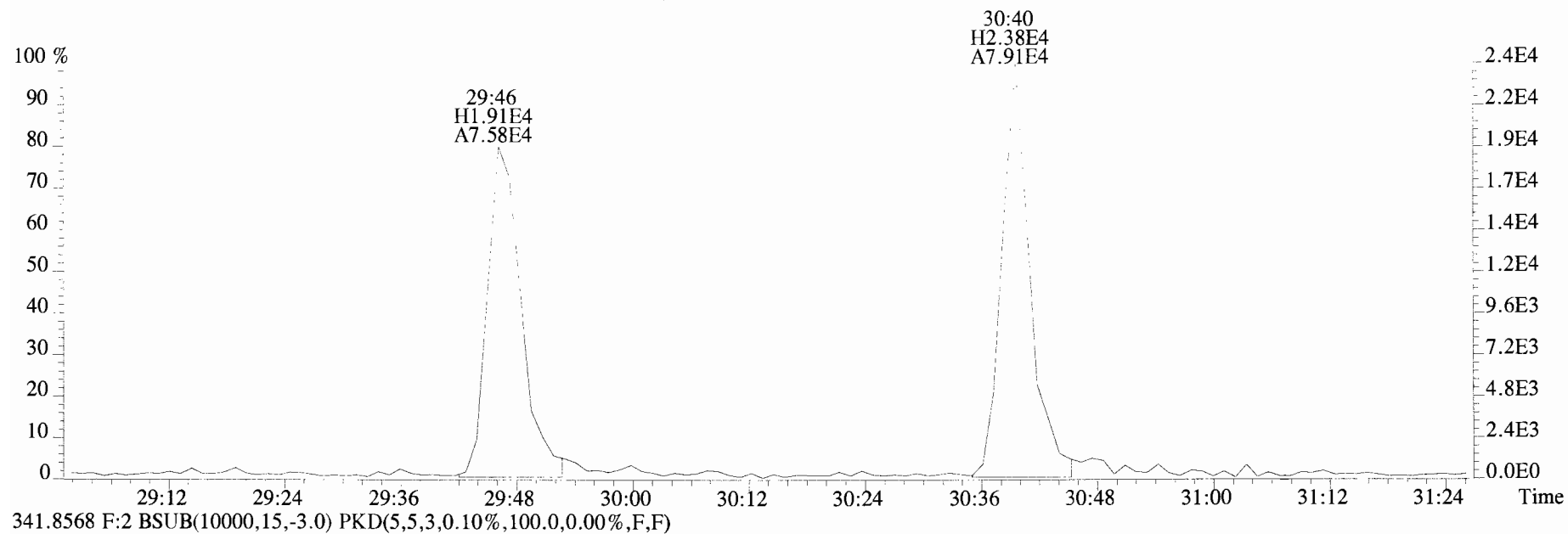




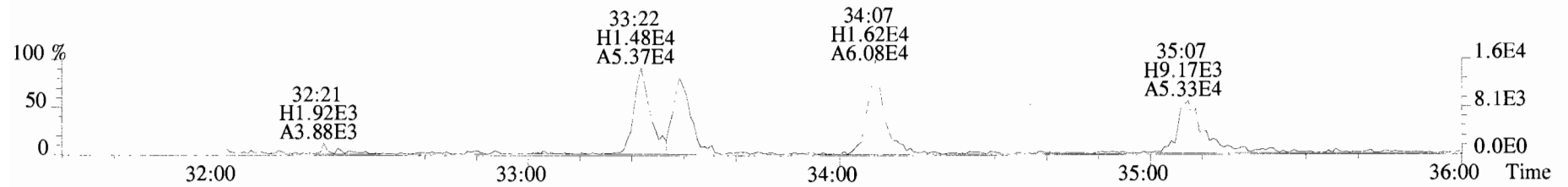
File:191009D1 #1-210 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



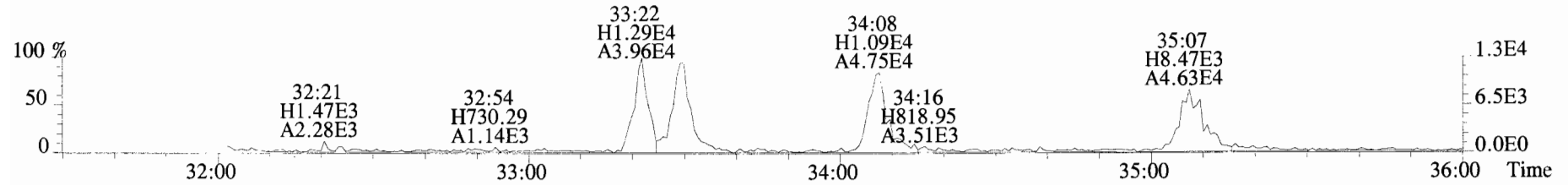
File:191009D1 #1-210 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



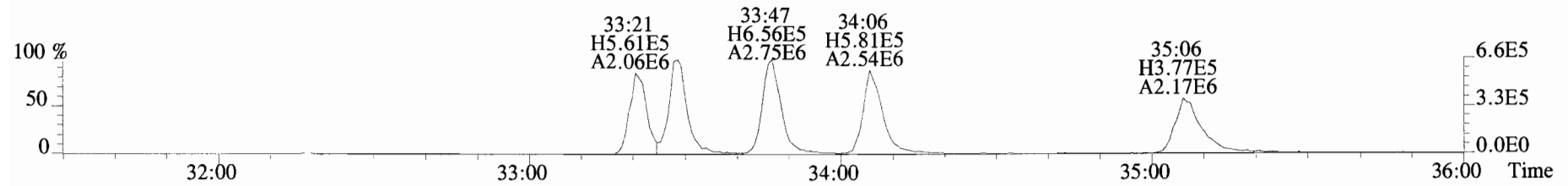
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
 373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



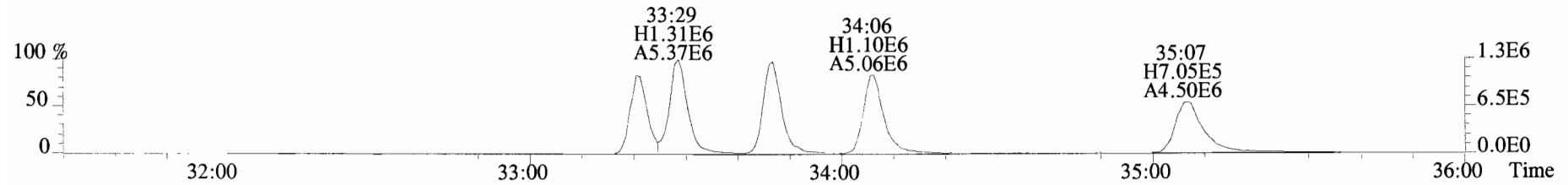
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



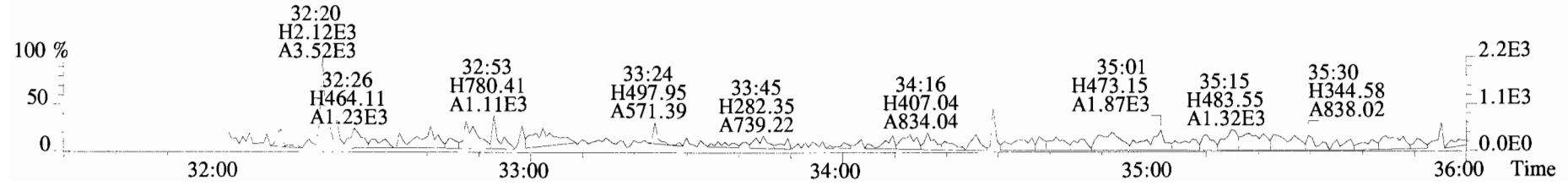
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



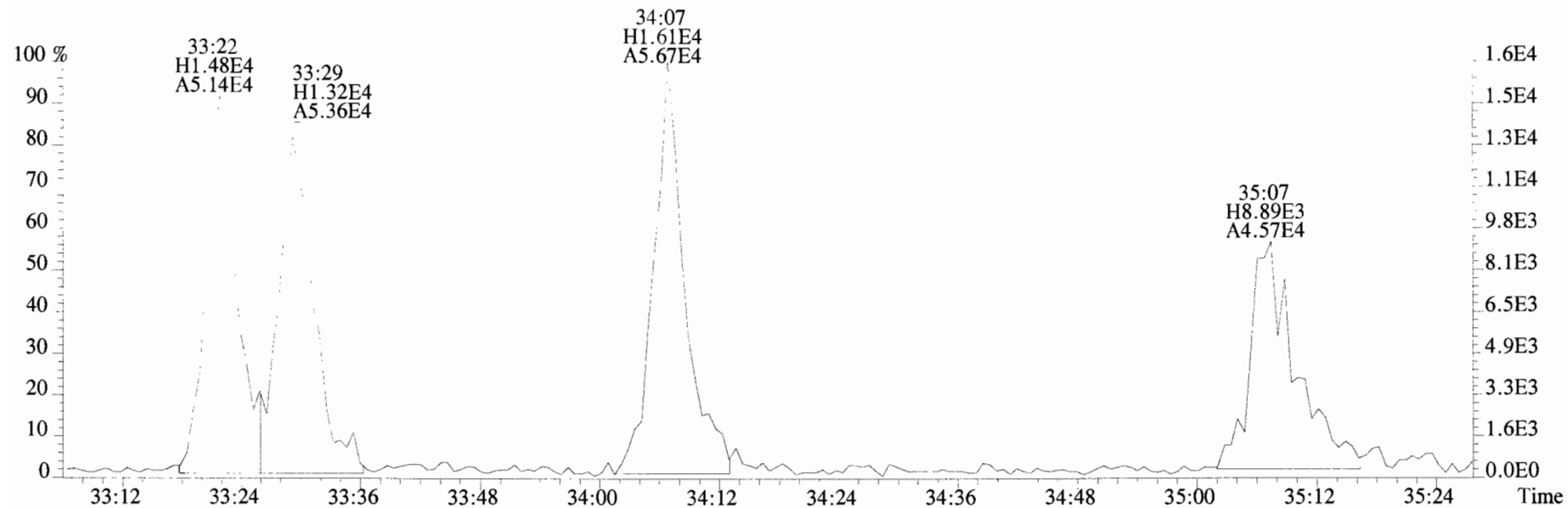
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



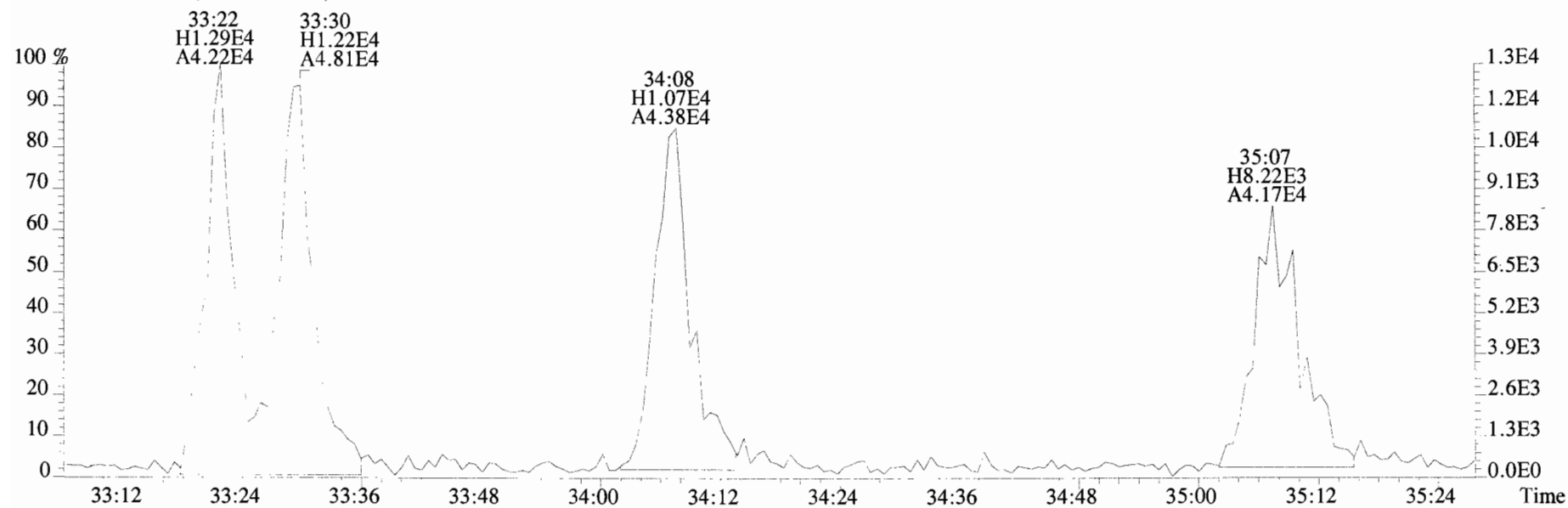
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



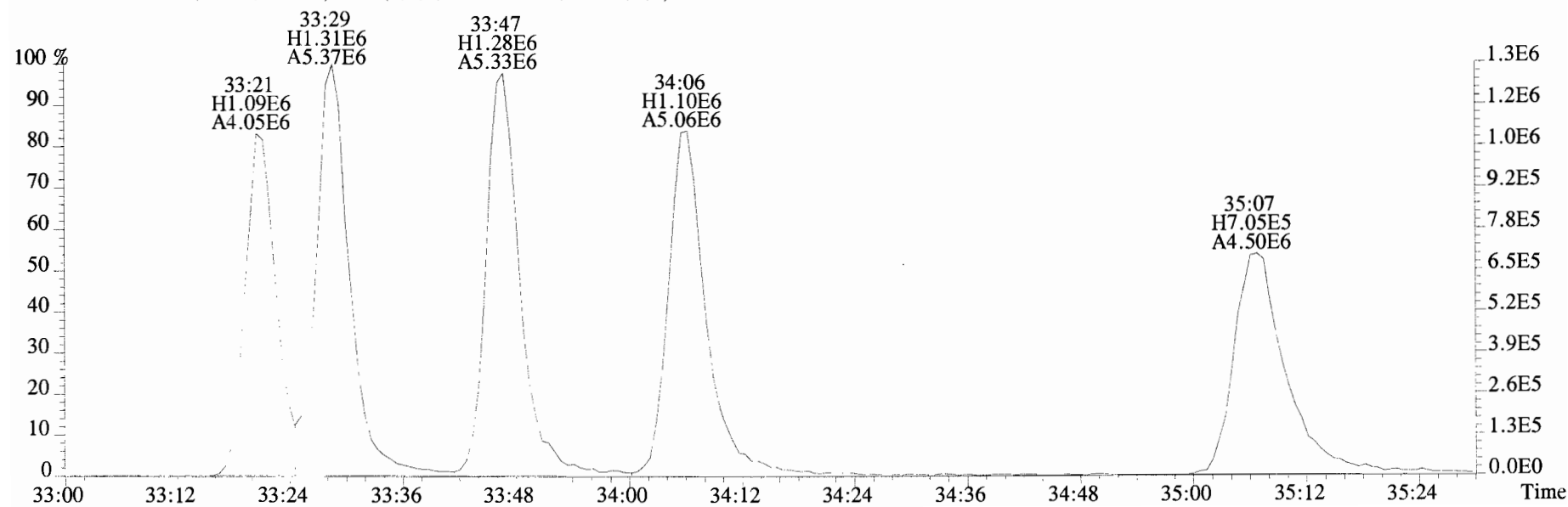
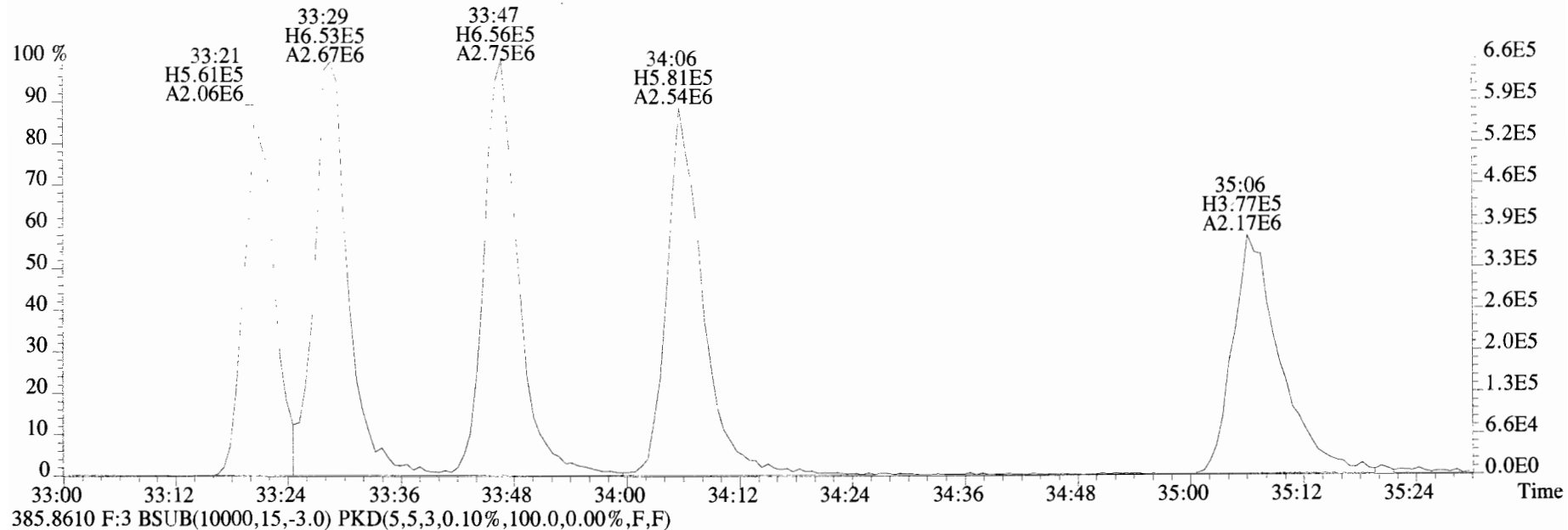
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical\_Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
373.8207 F:3 BSUB(10000,15,-3.0)



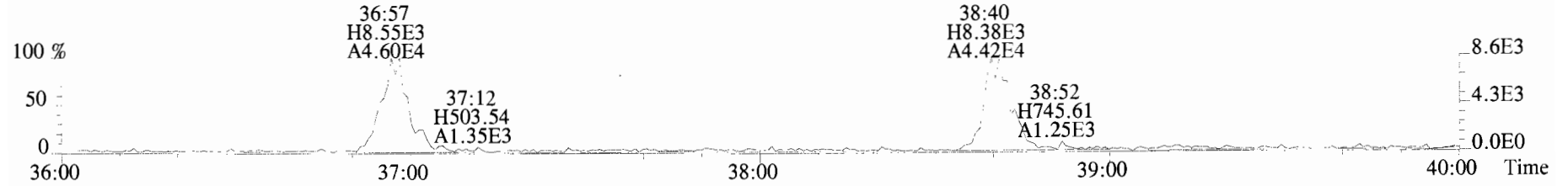
375.8178 F:3 BSUB(10000,15,-3.0)



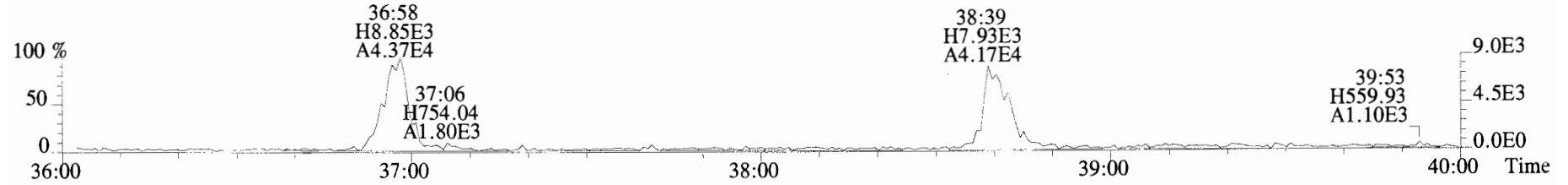
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



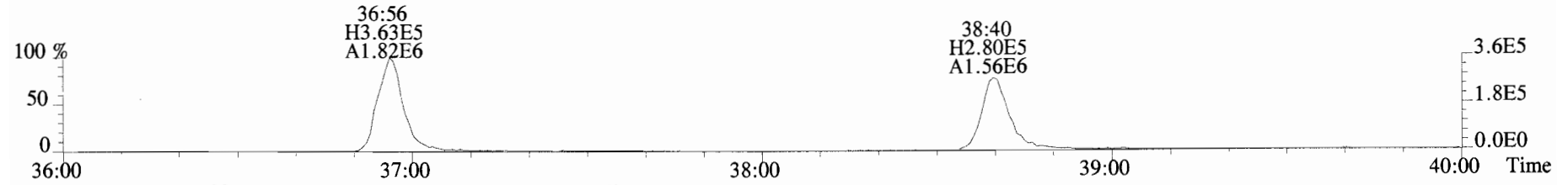
File:191009D1 #1-355 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



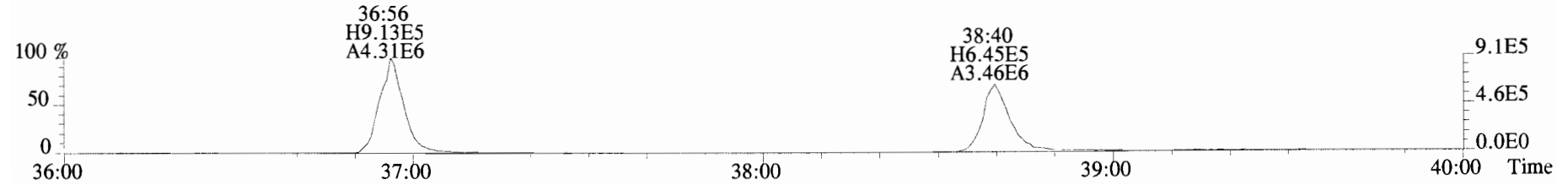
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



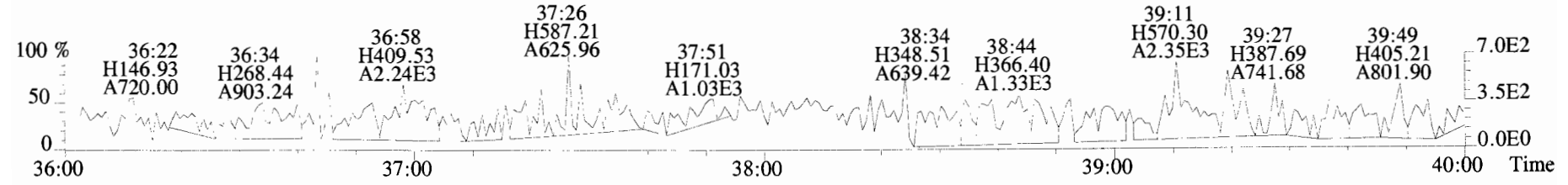
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



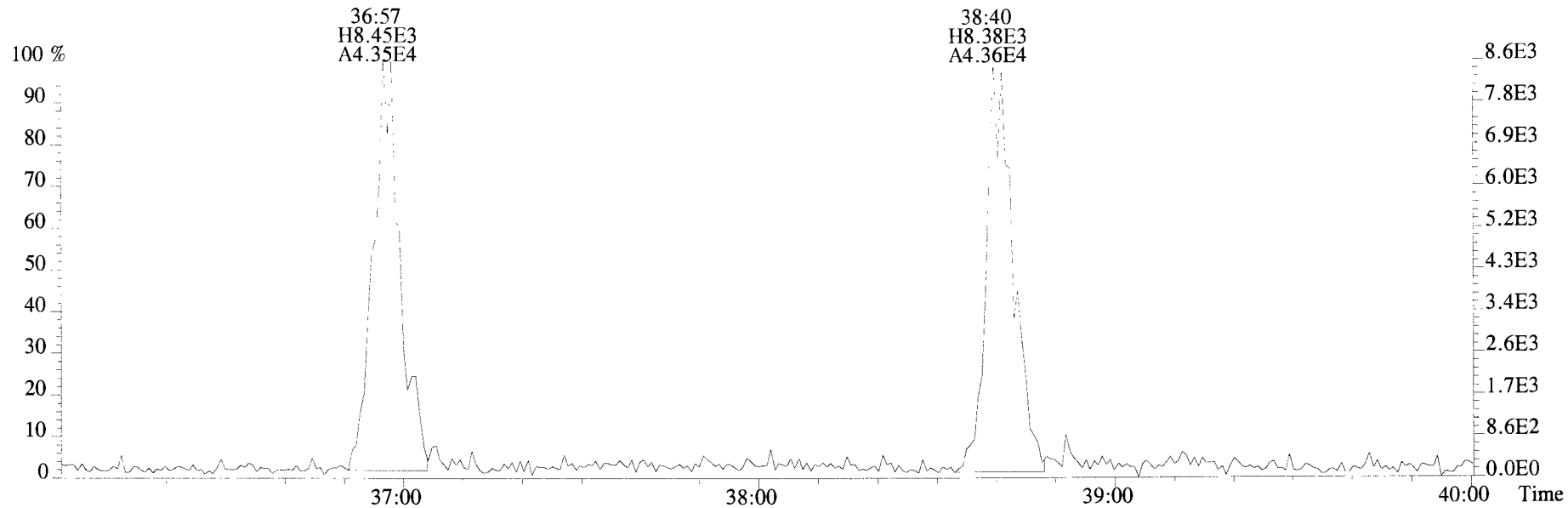
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



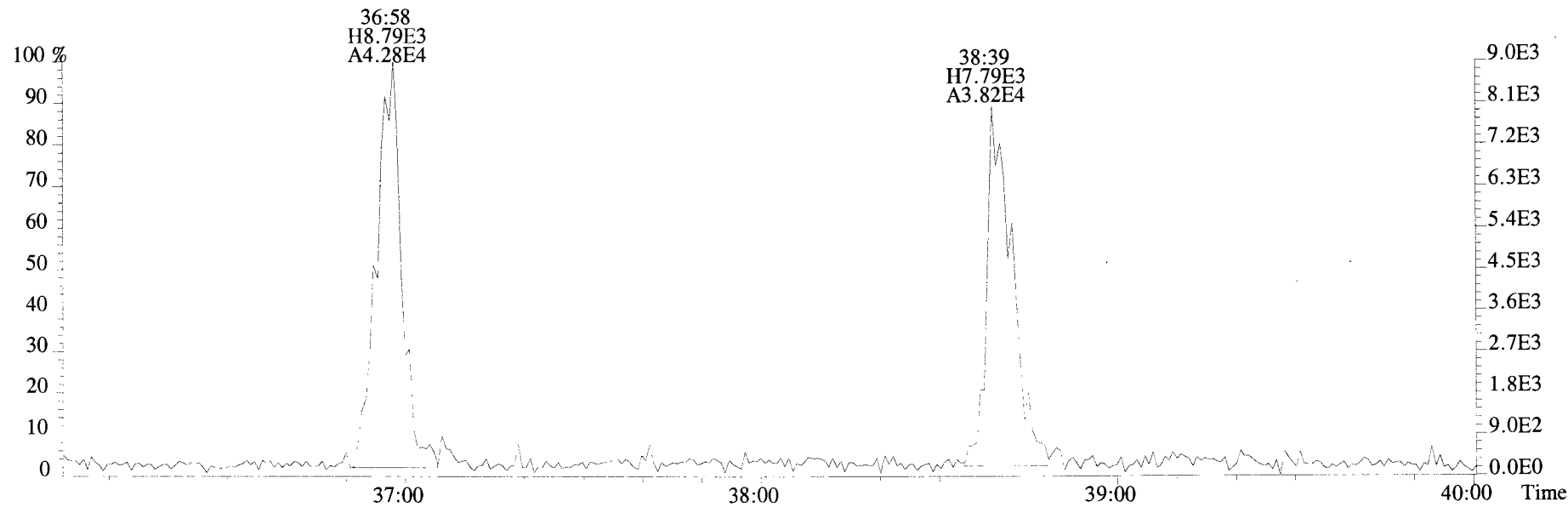
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



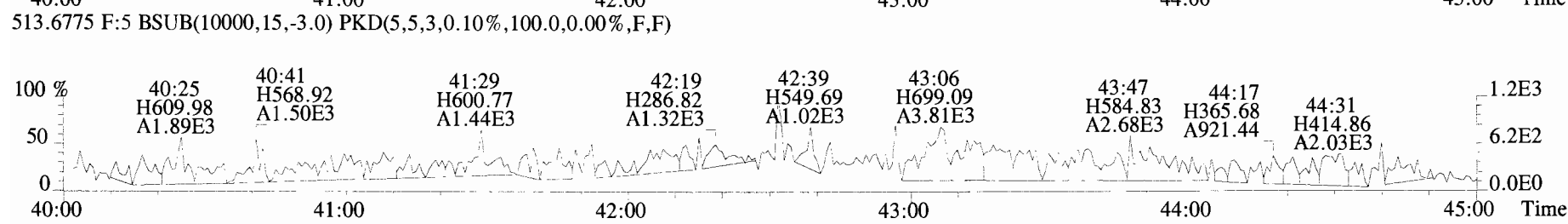
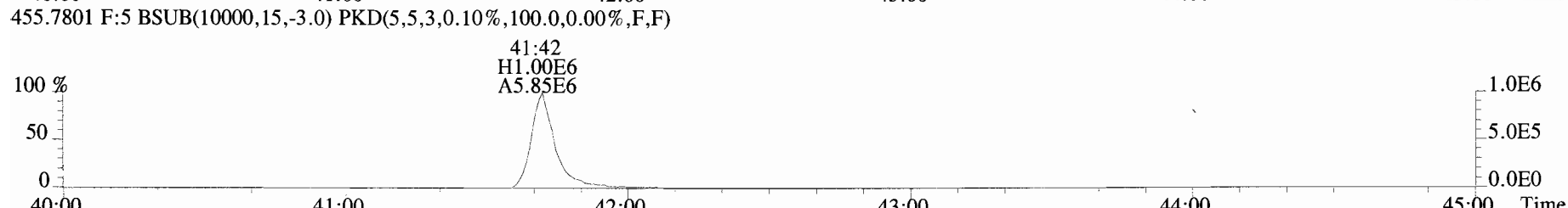
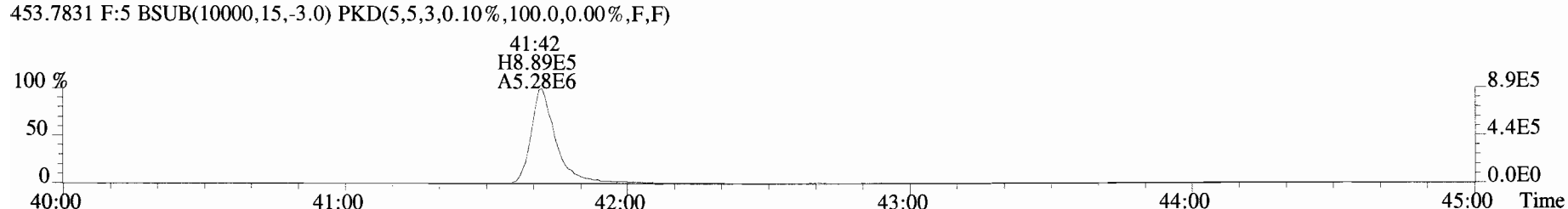
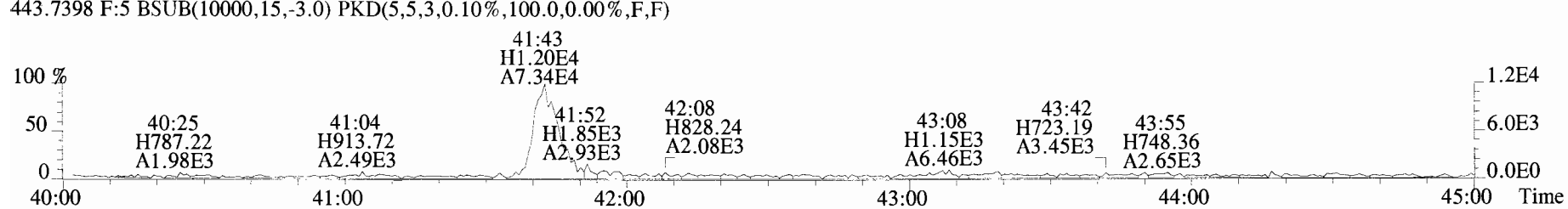
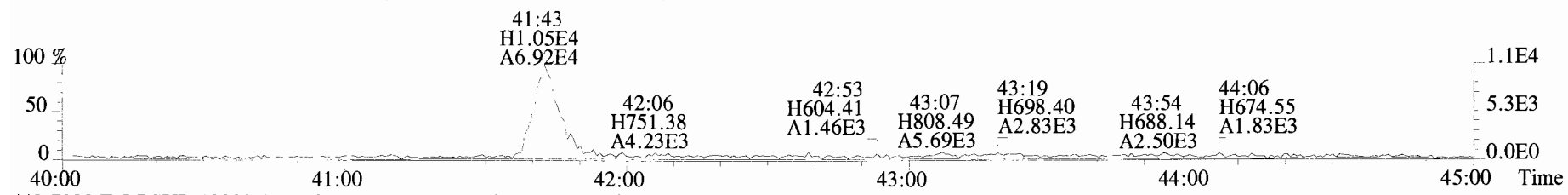
File:191009D1 #1-355 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

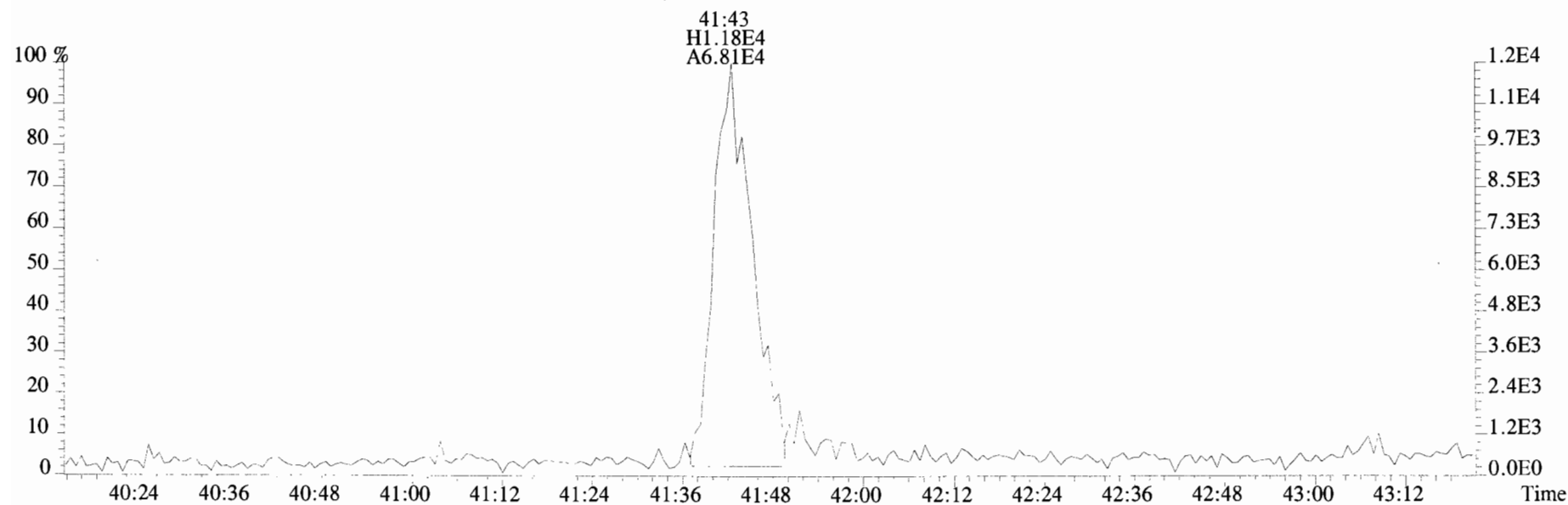
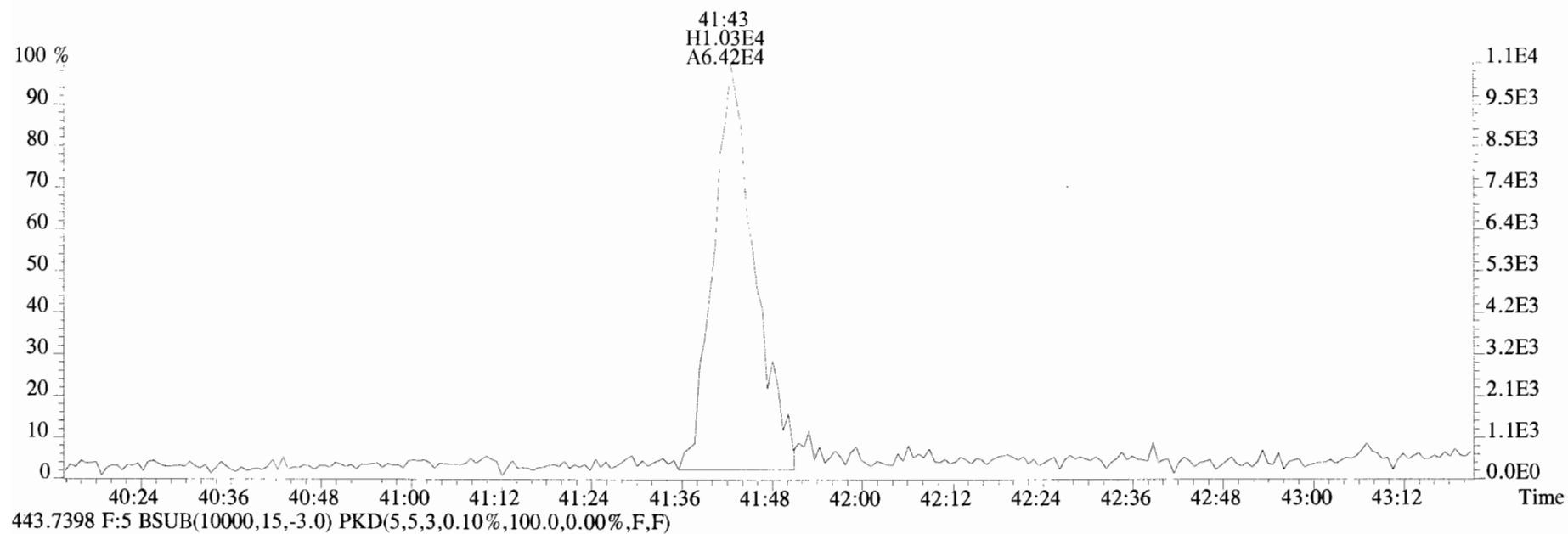


File:191009D1 #1-432 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
 441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

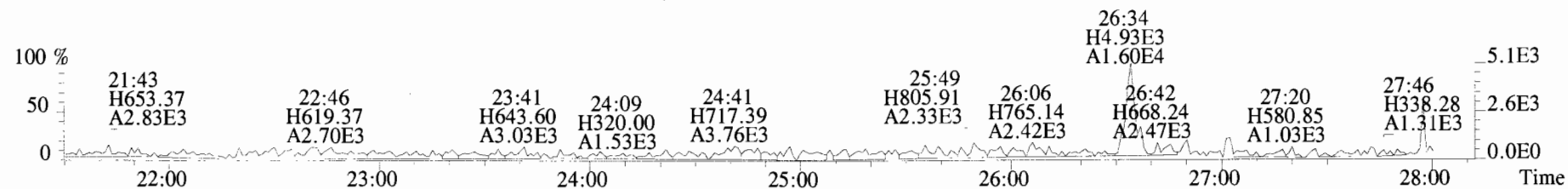




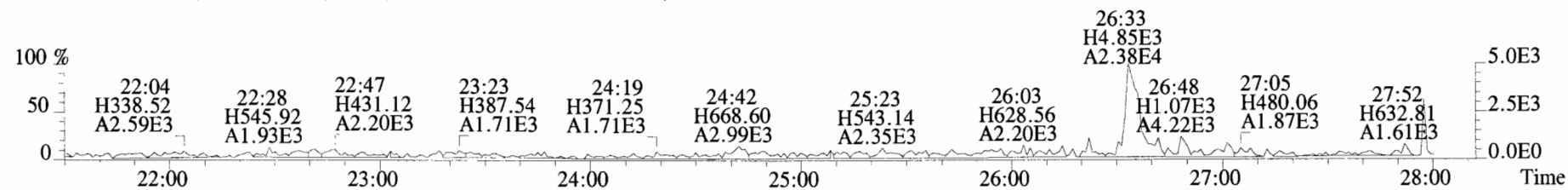
File:191009D1 #1-432 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD\_DB5  
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



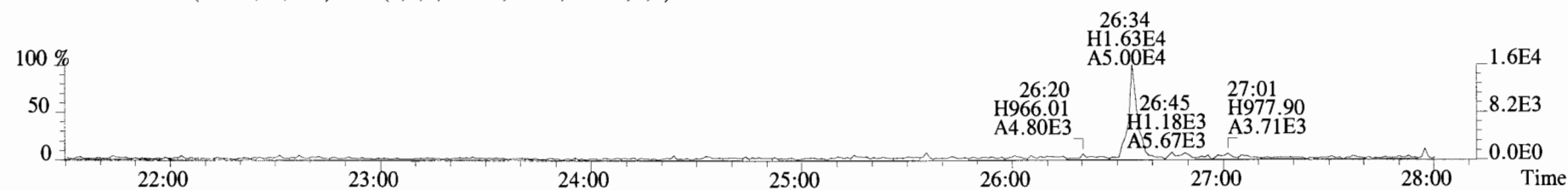
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



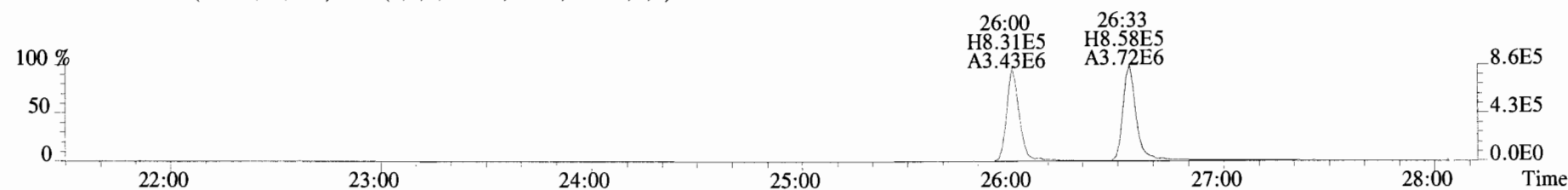
321.8936 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



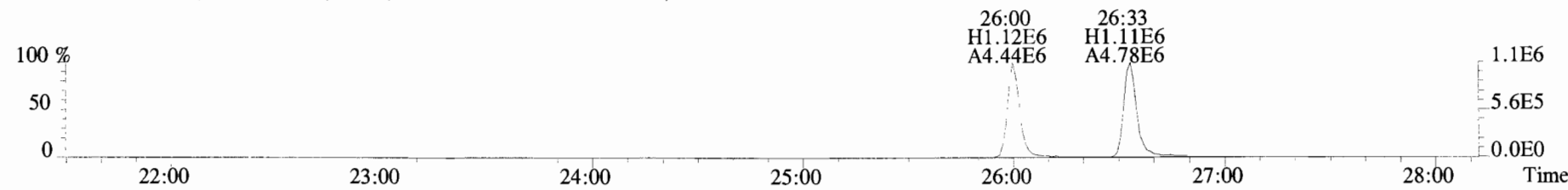
327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



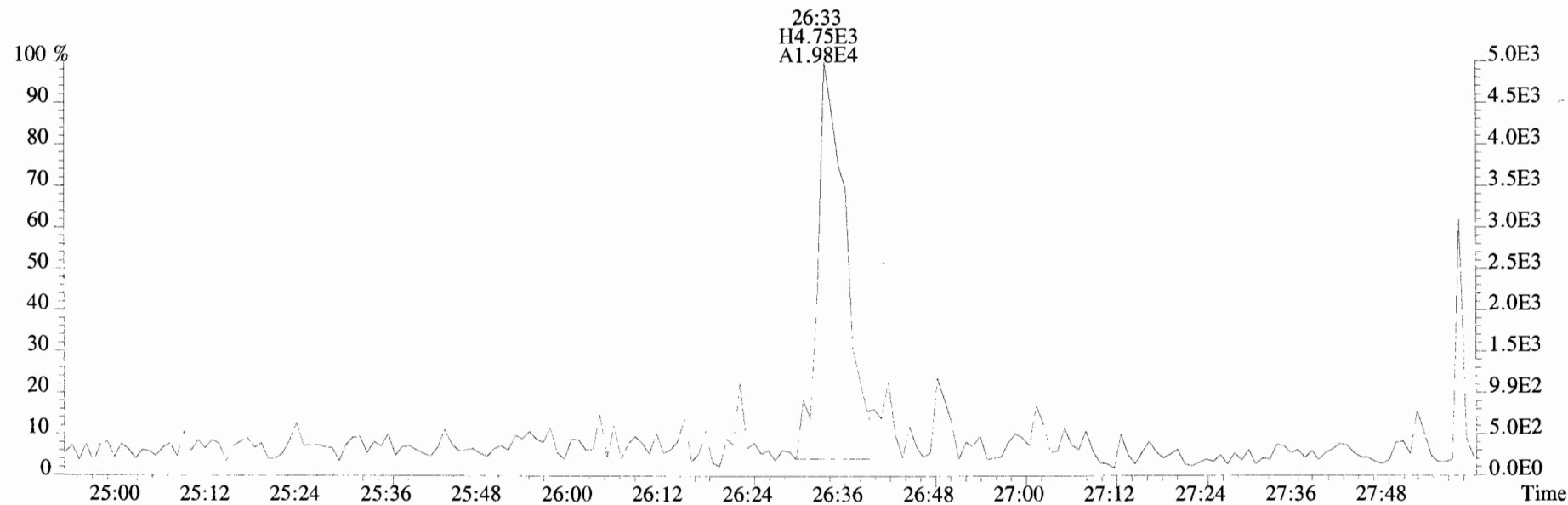
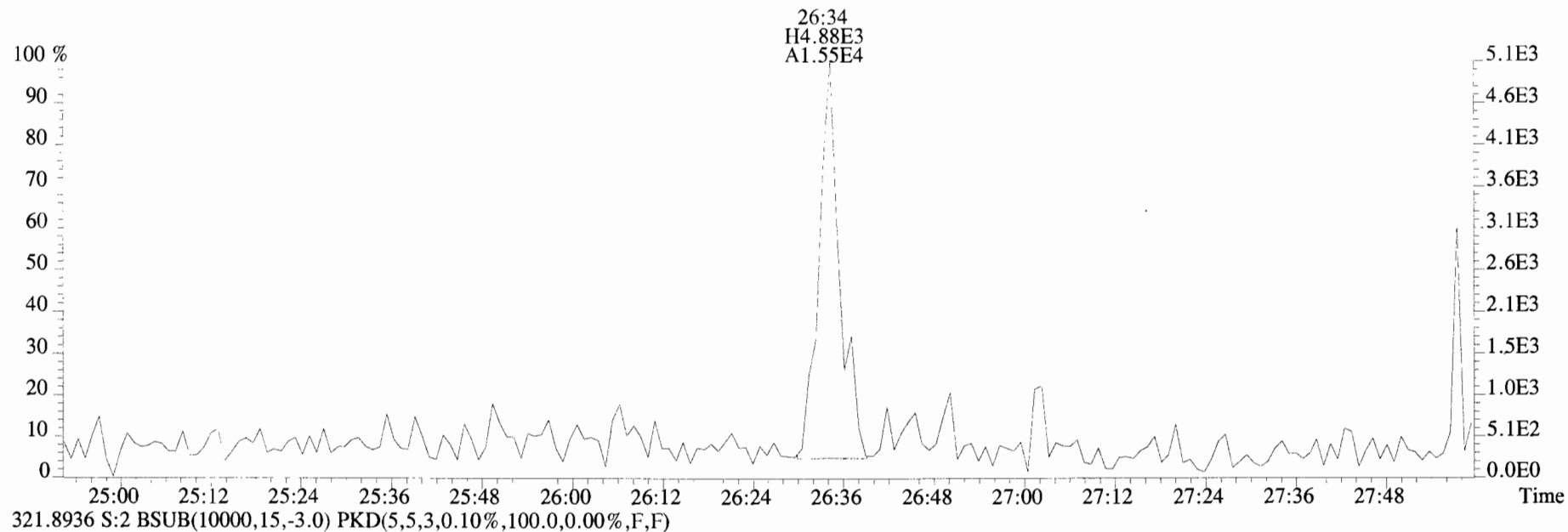
331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



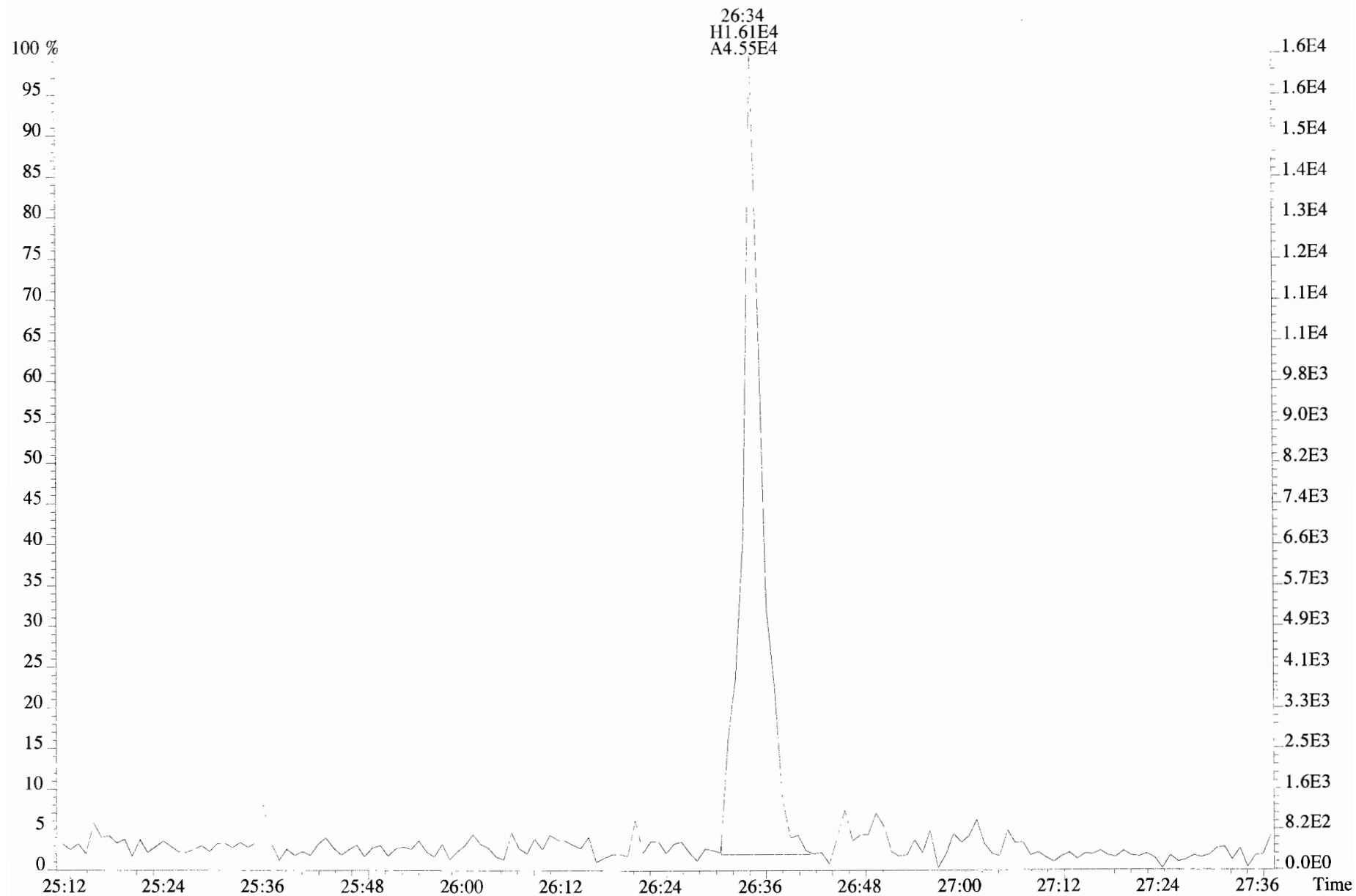
333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



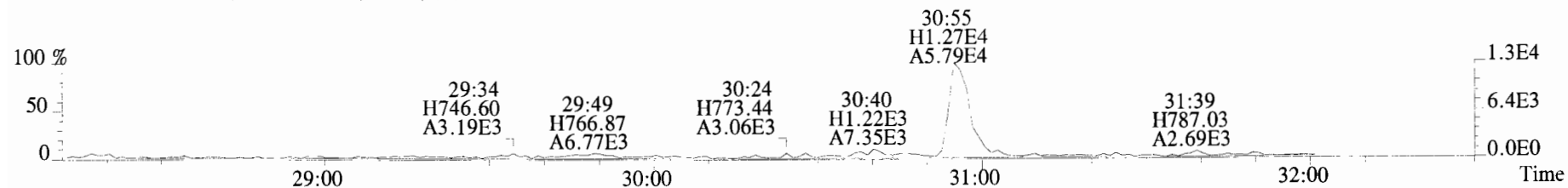
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



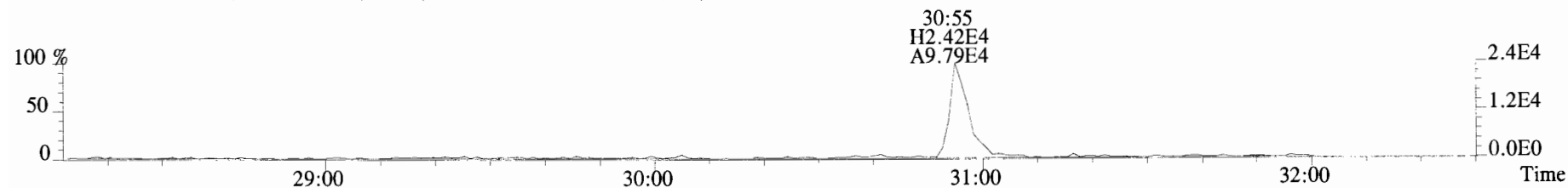
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



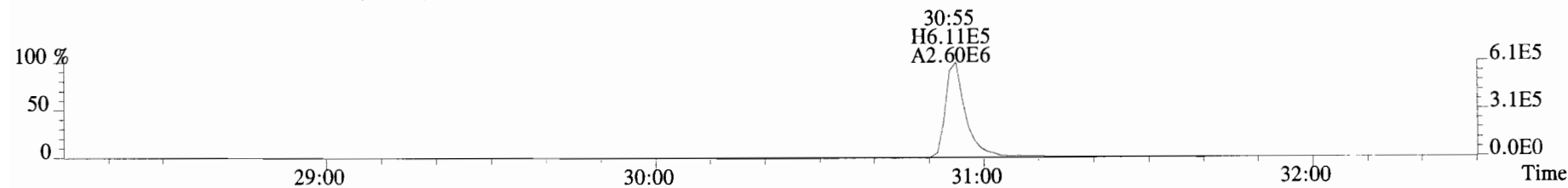
File:191009D1 #1-211 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



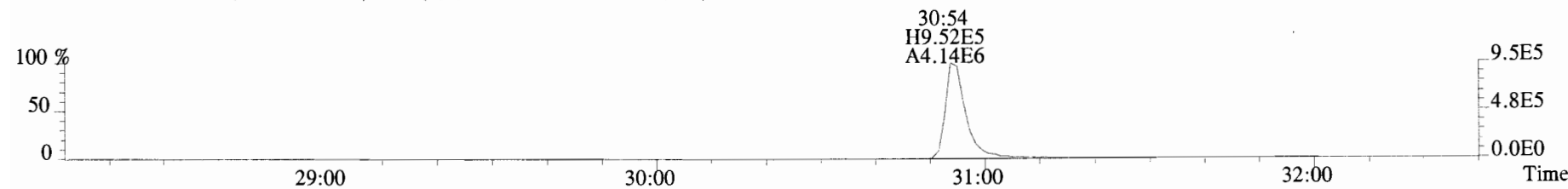
355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



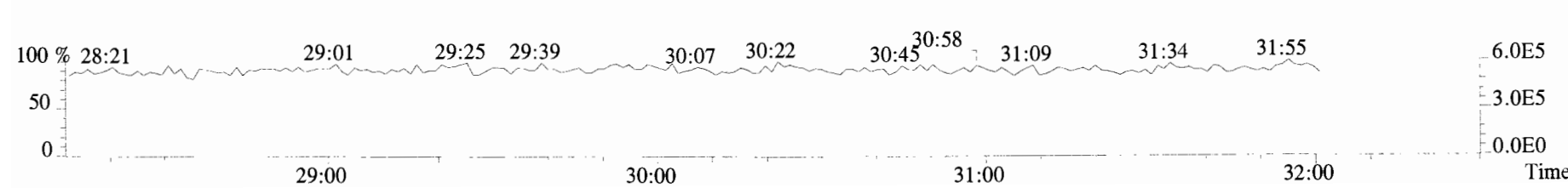
365.8978 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



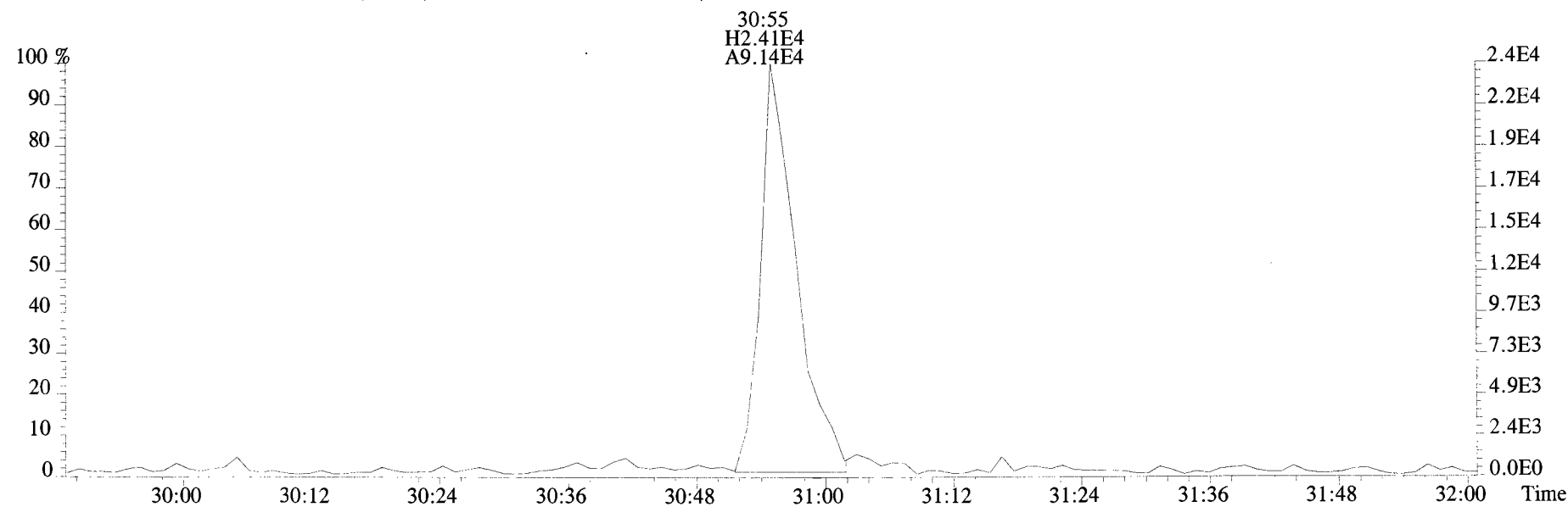
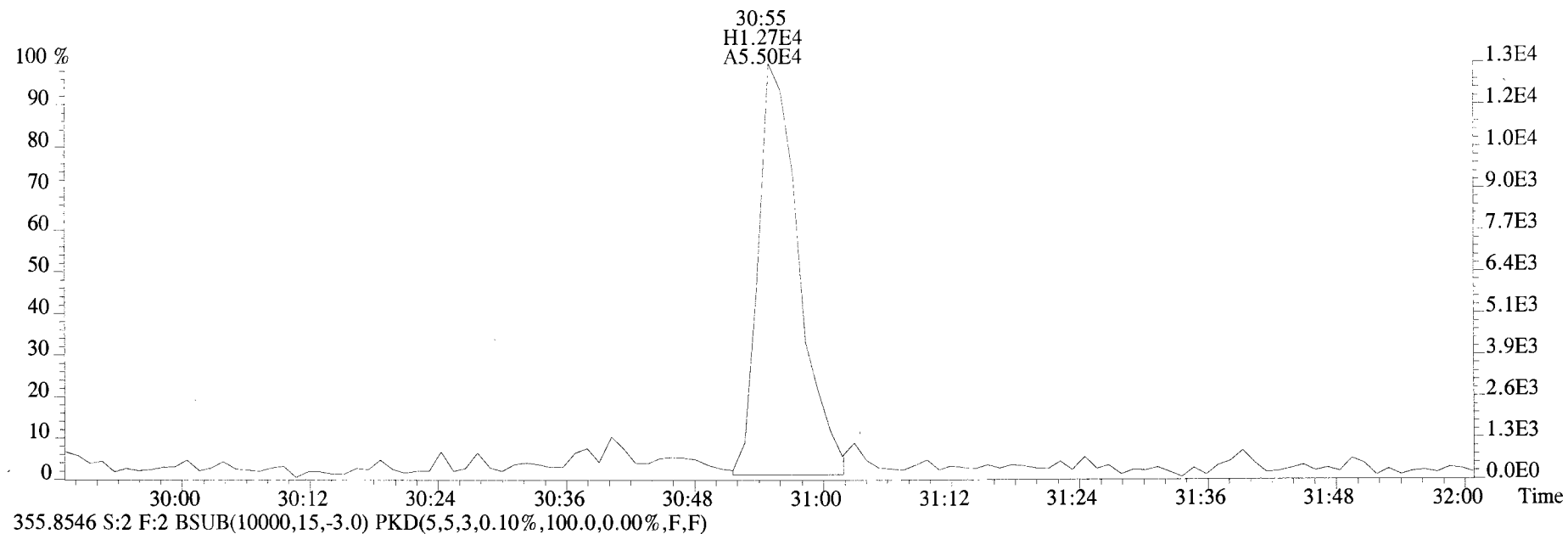
367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



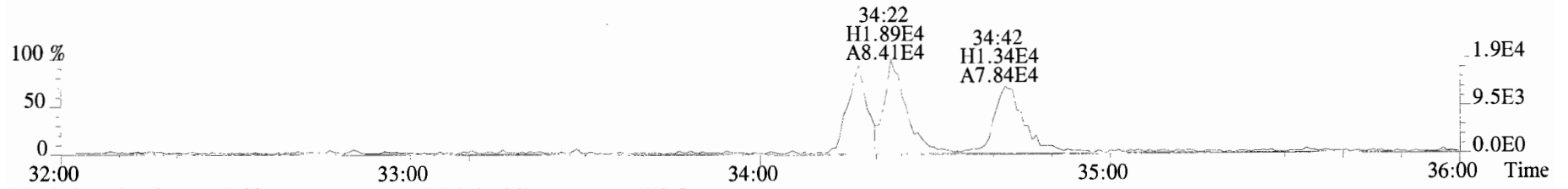
366.9792 S:2 F:2



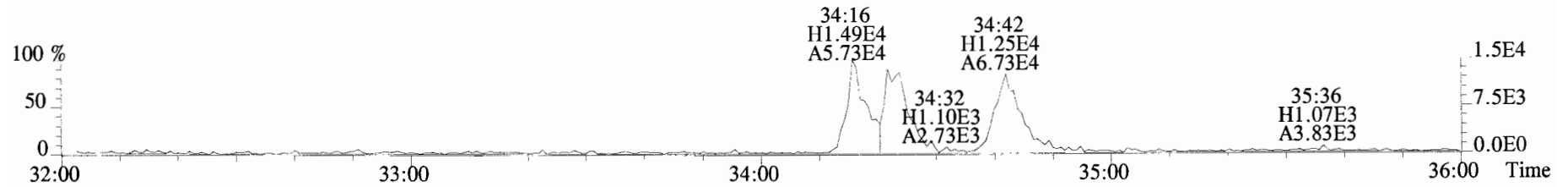
File:191009D1 #1-211 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



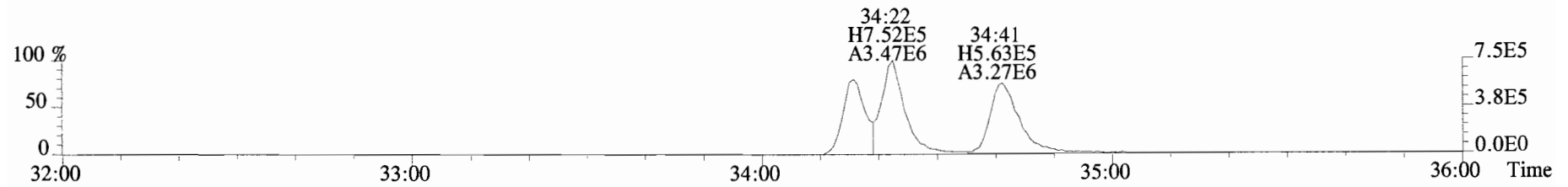
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



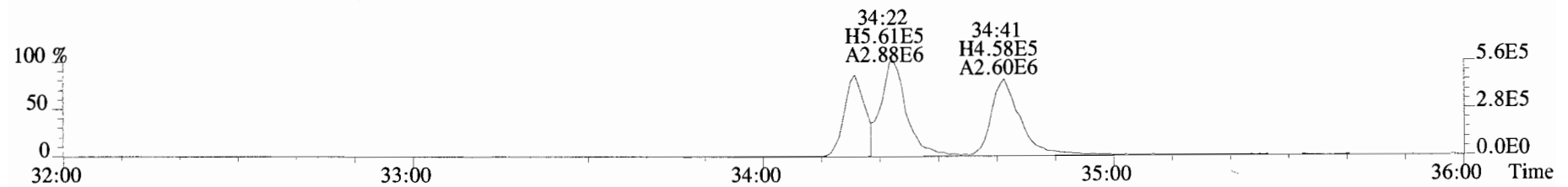
391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



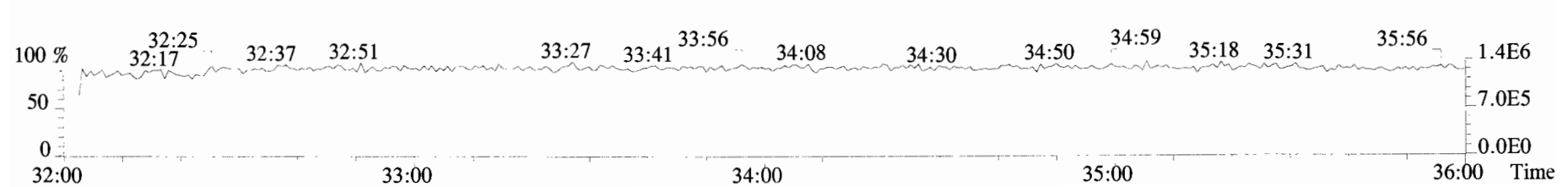
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



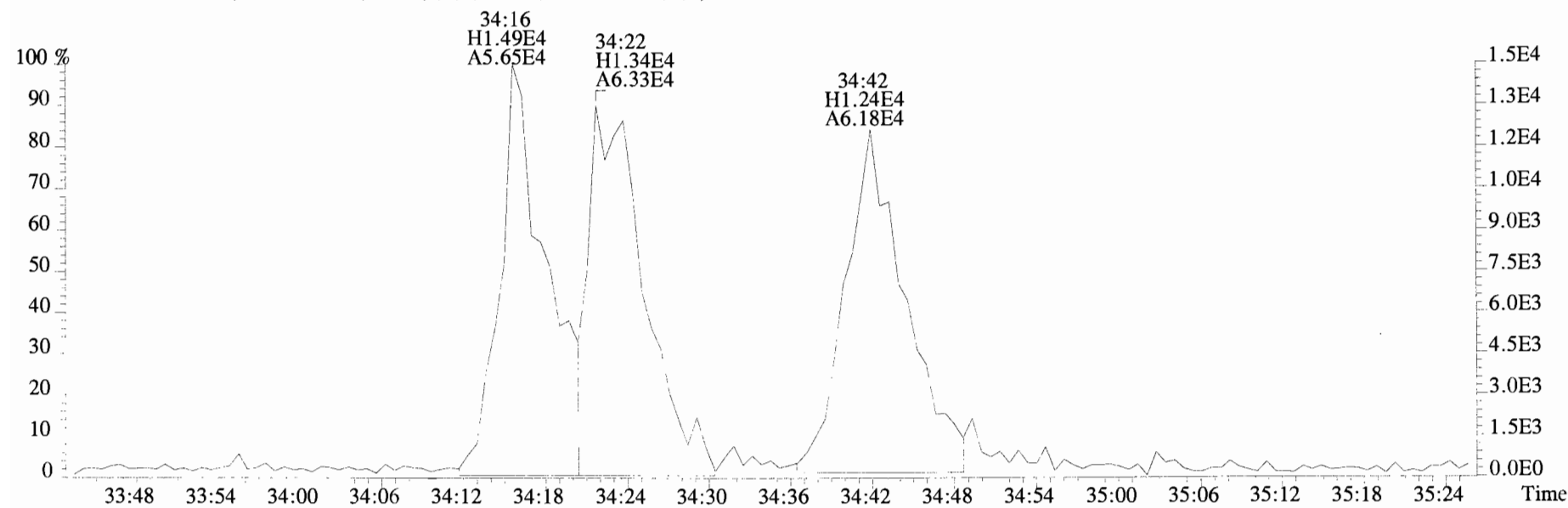
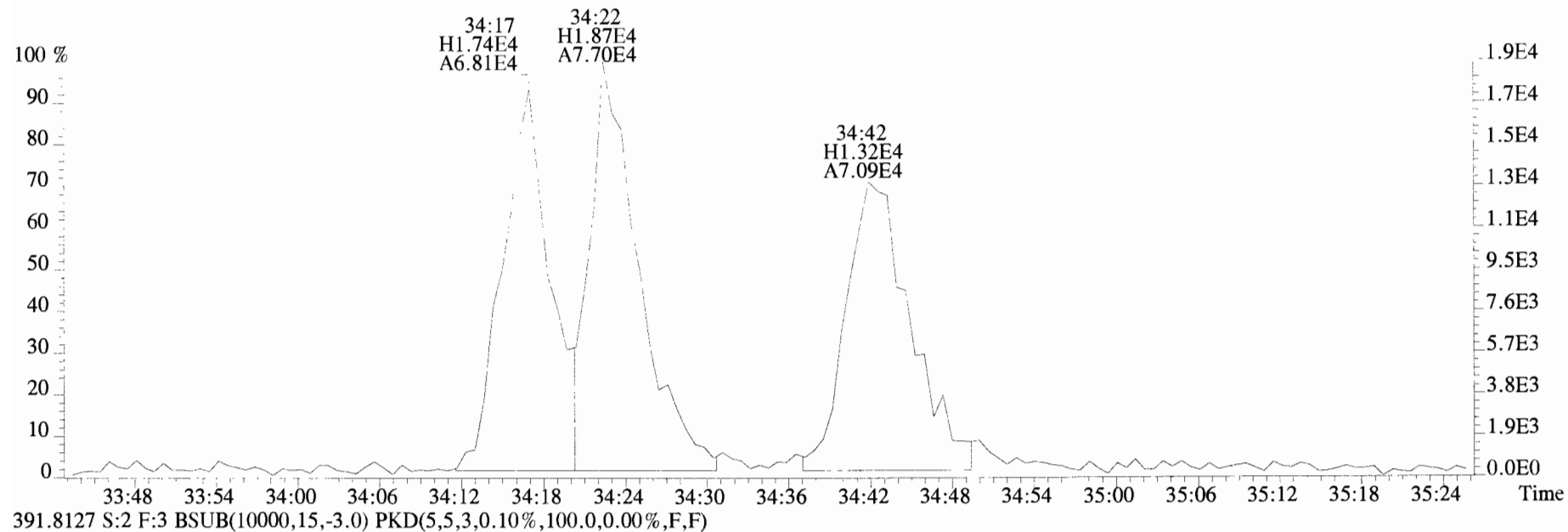
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



392.9760 S:2 F:3

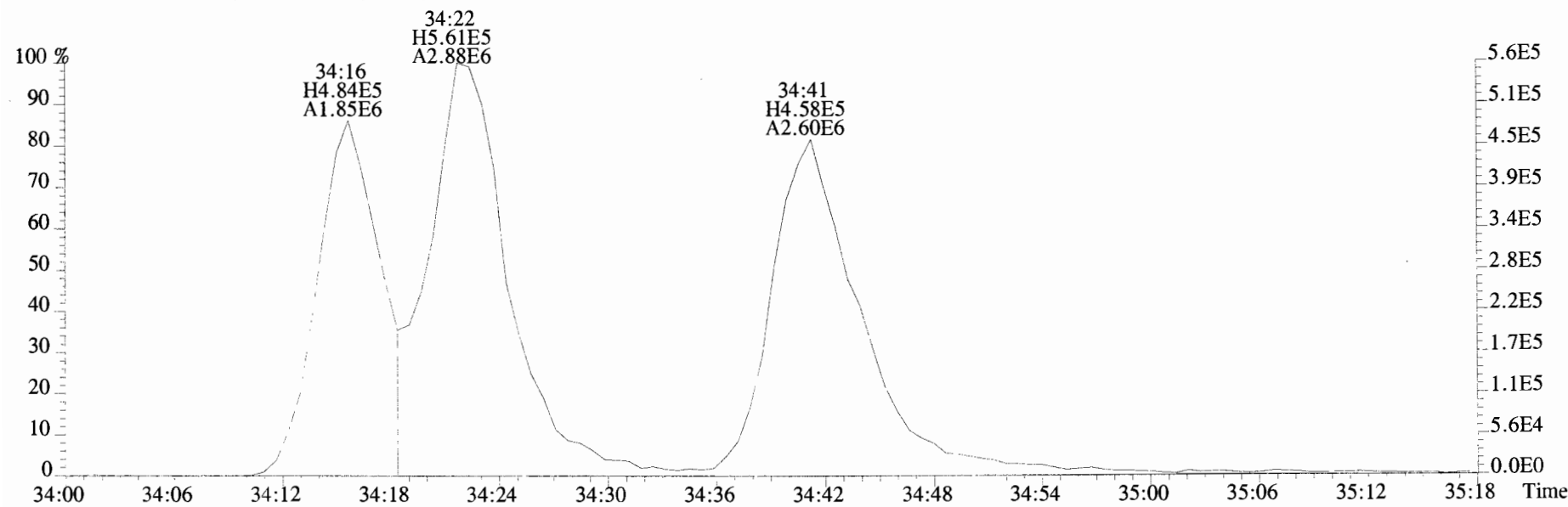
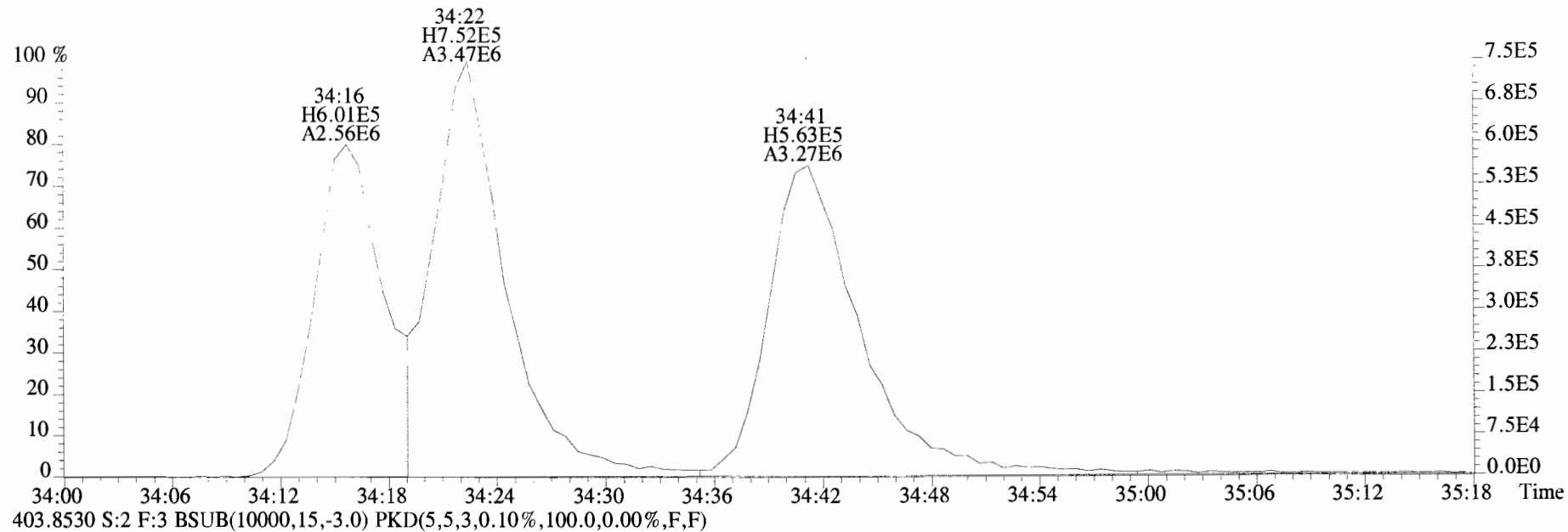


File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

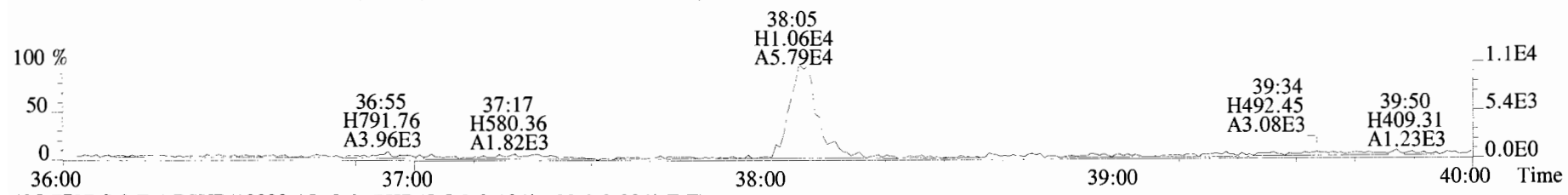




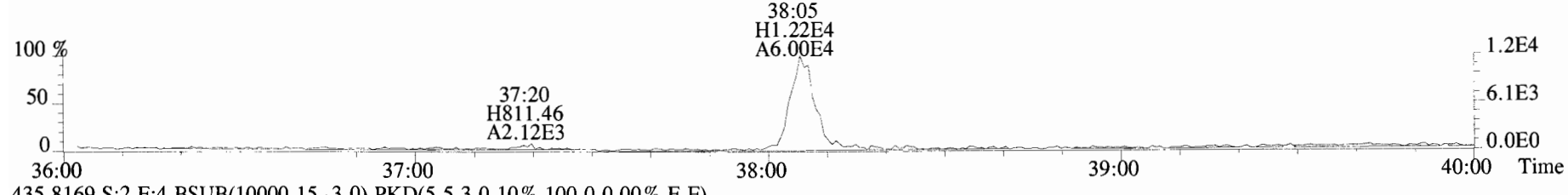
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



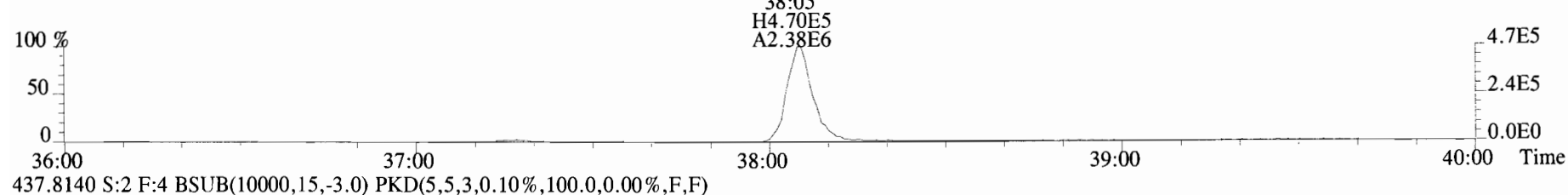
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



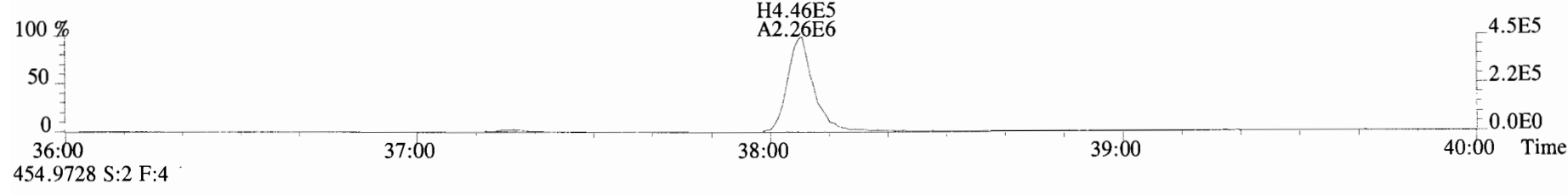
425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



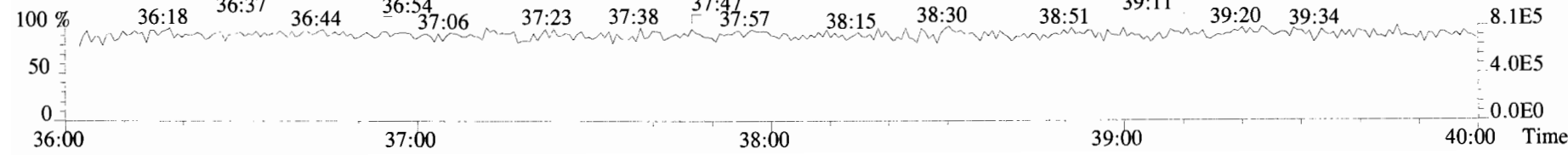
435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



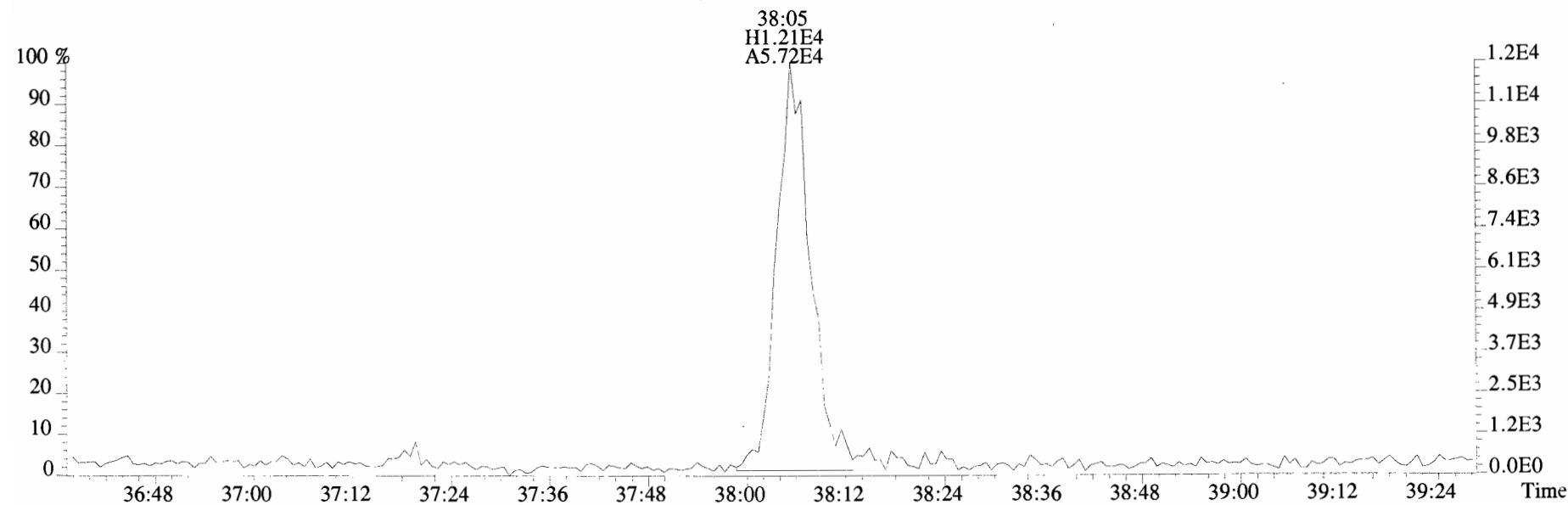
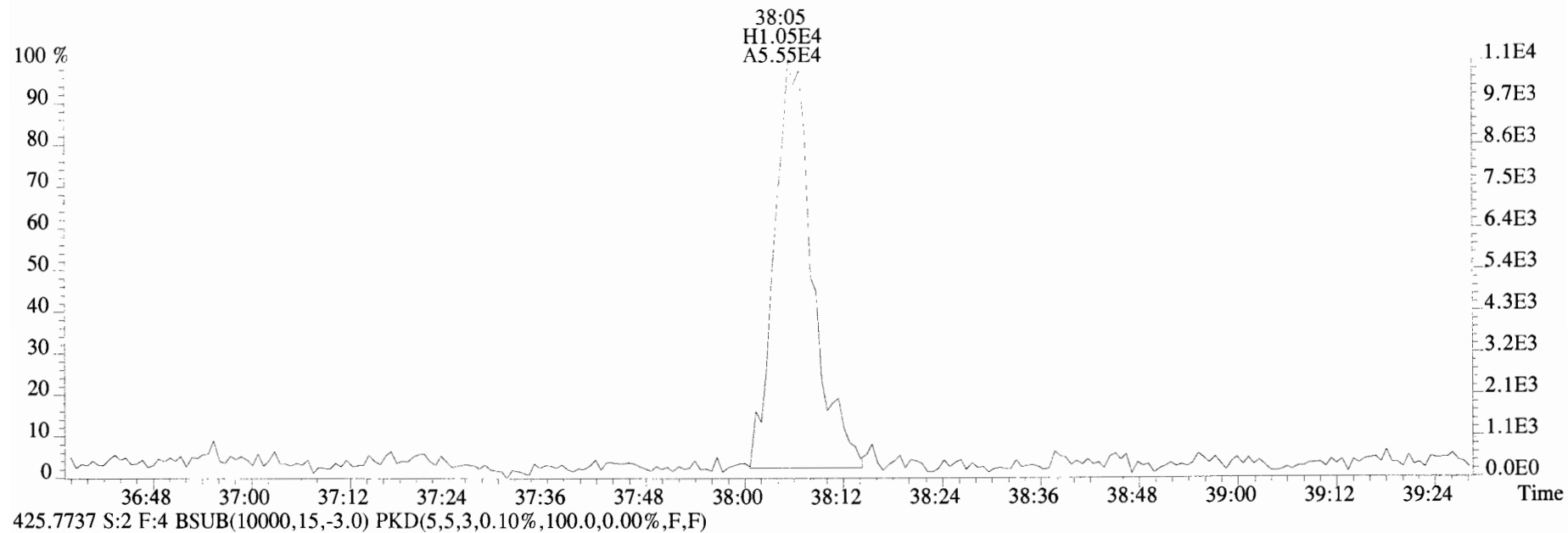
437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



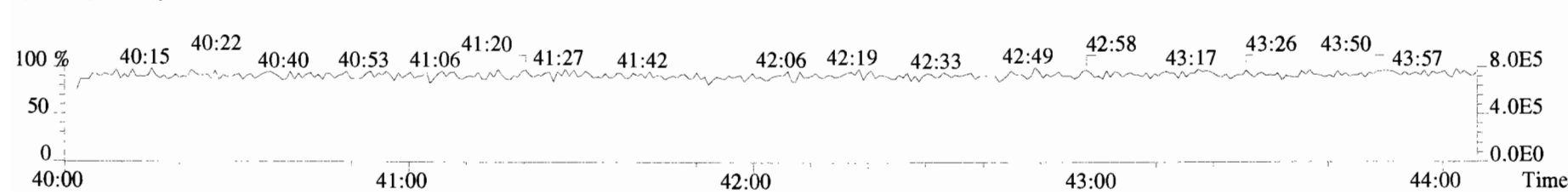
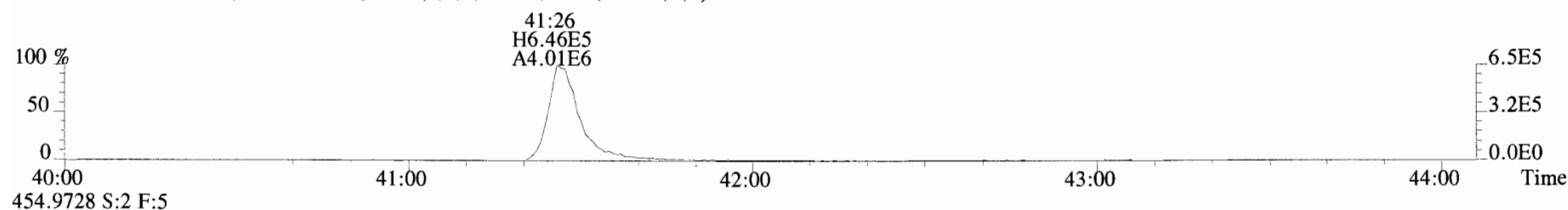
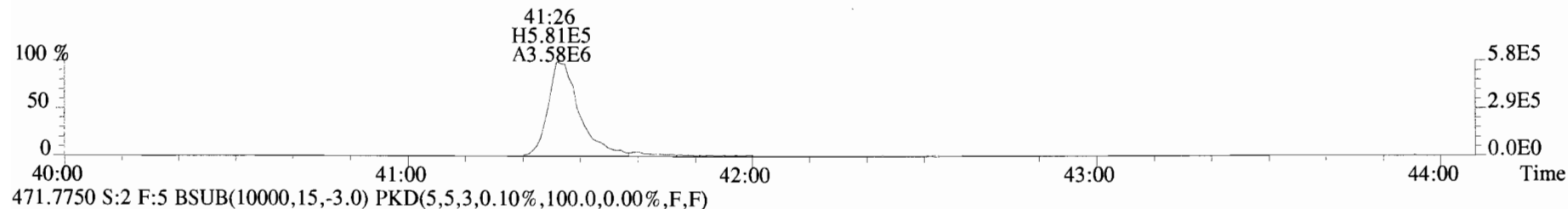
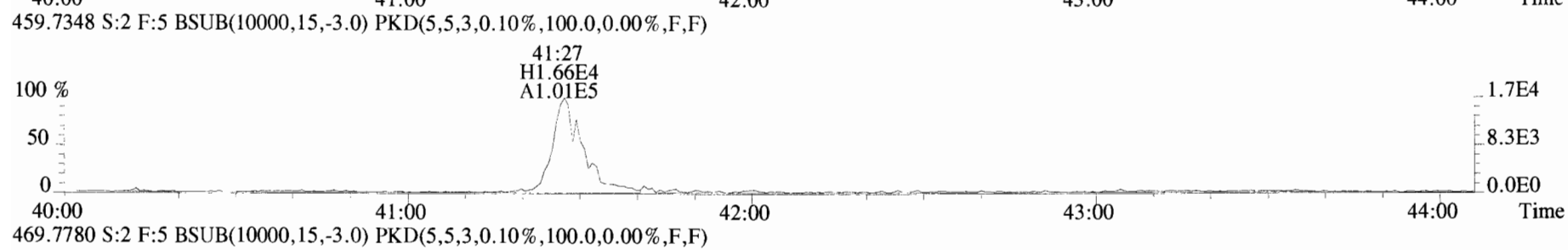
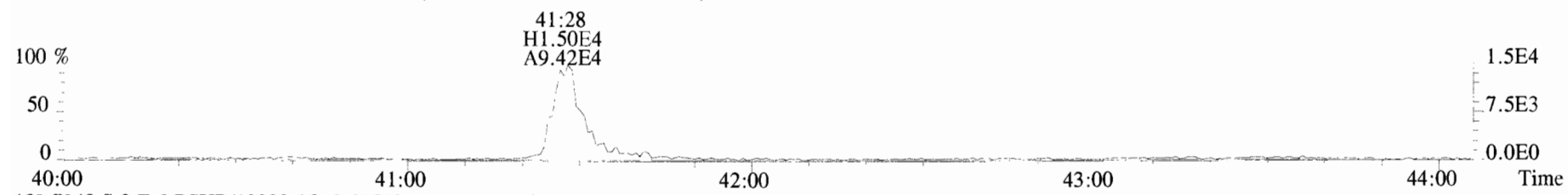
454.9728 S:2 F:4



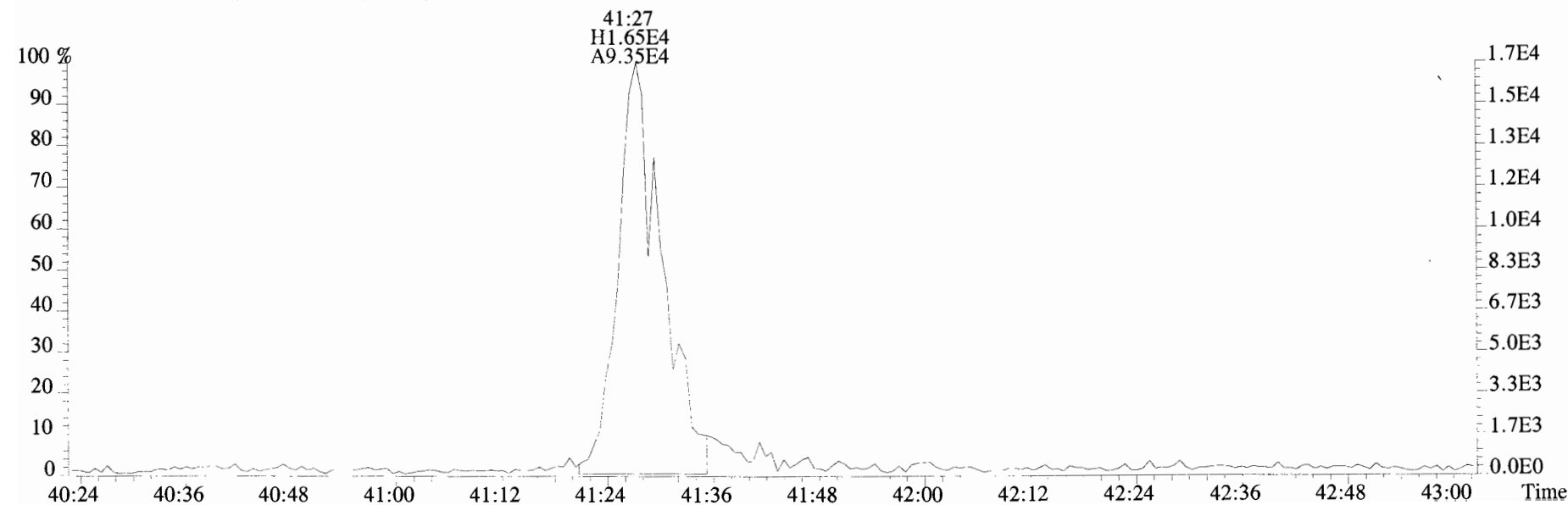
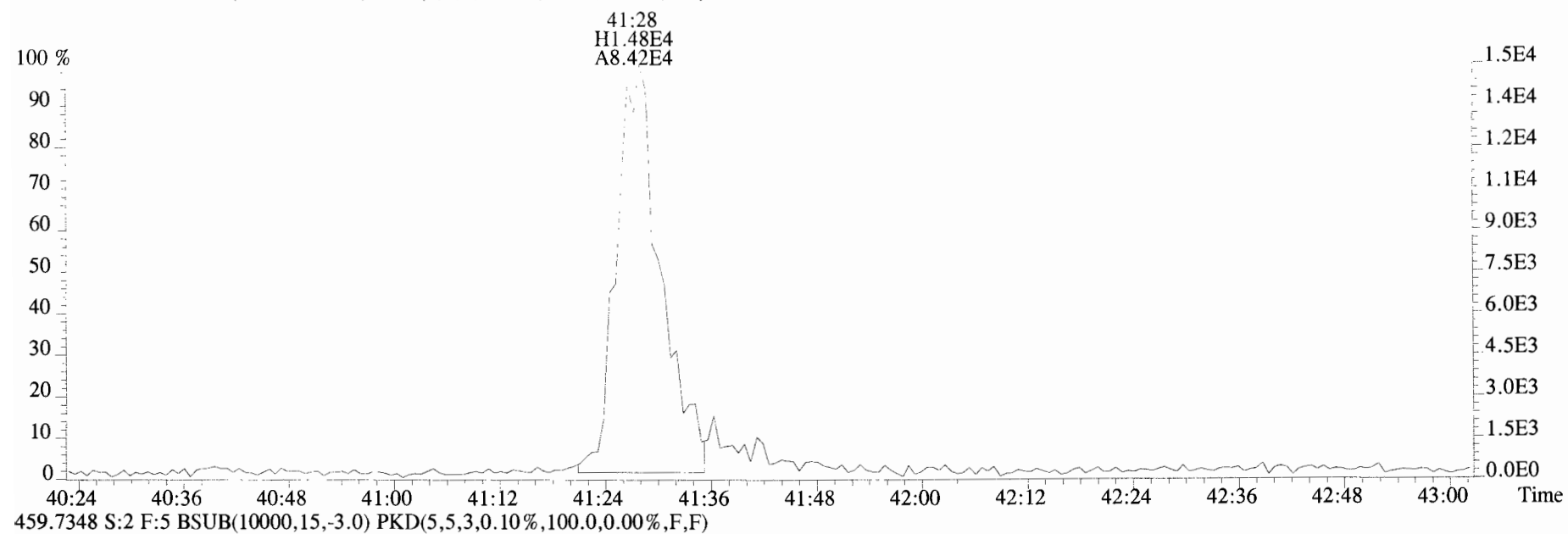
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
423.7767 S:2 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



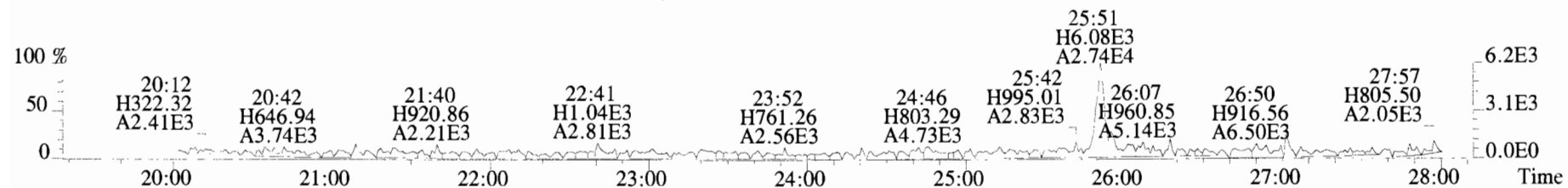
File:191009D1 #1-432 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



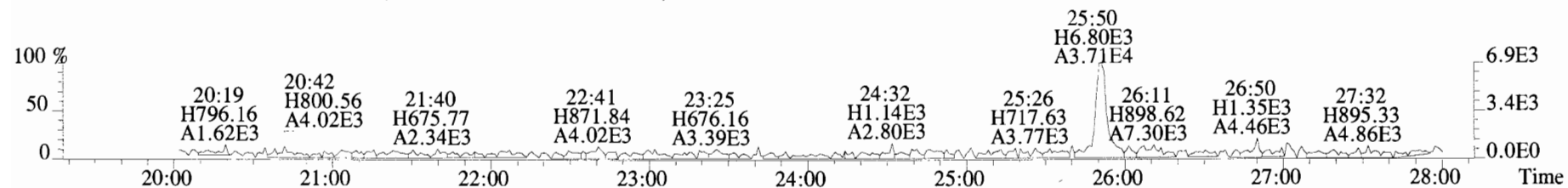
File:191009D1 #1-432 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



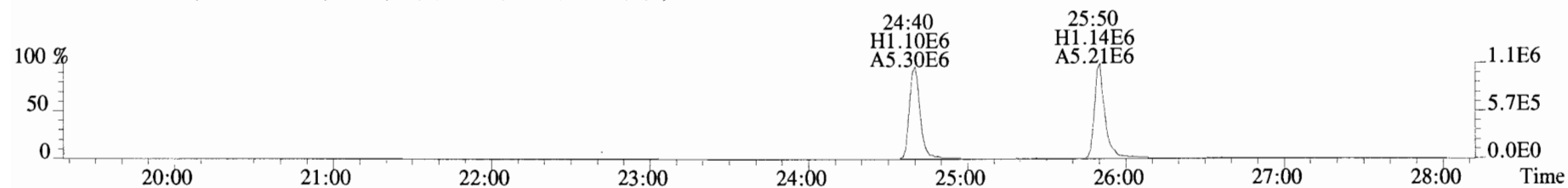
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



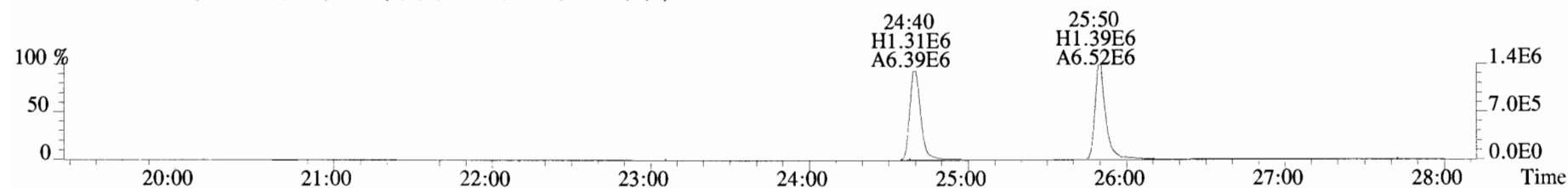
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



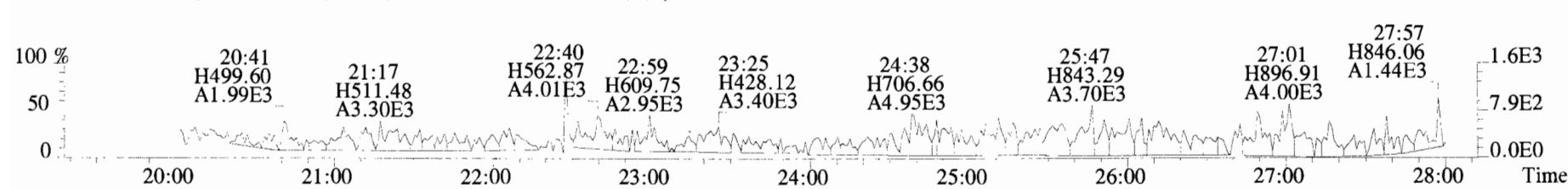
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



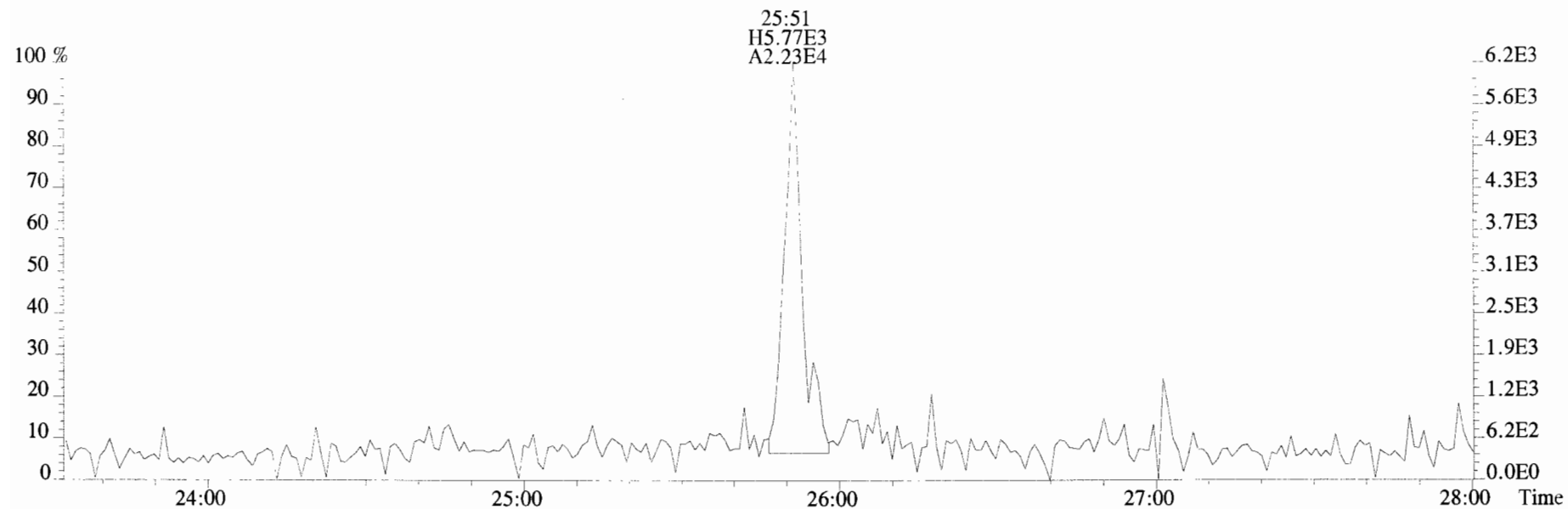
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



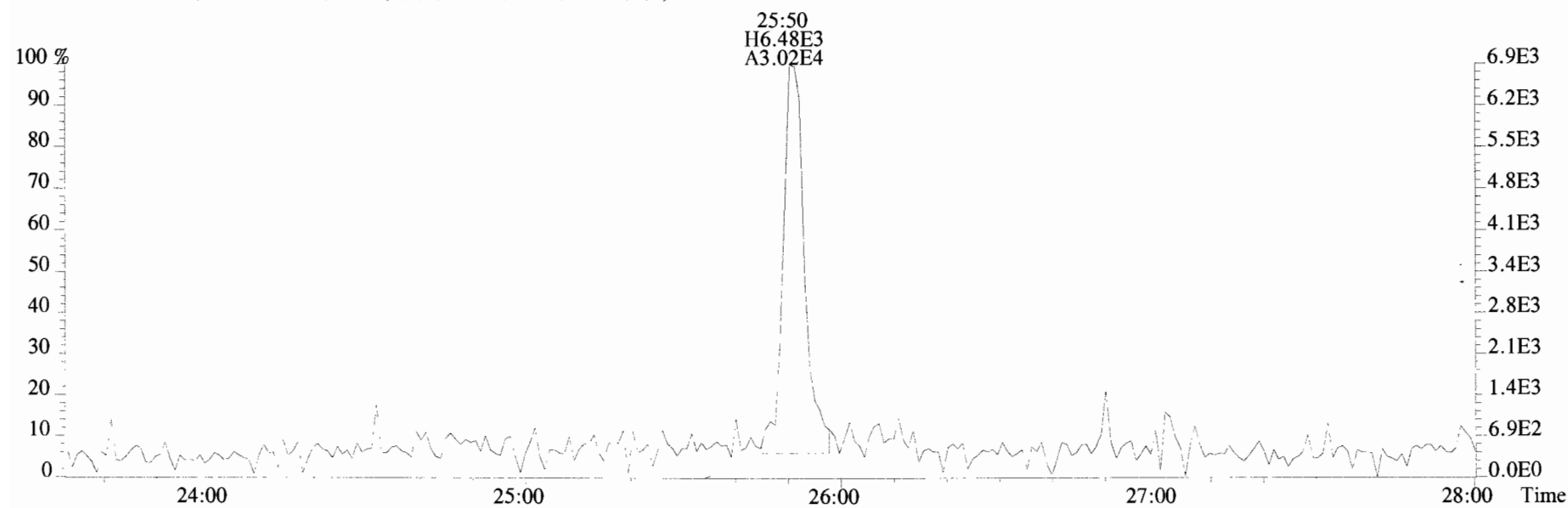
375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



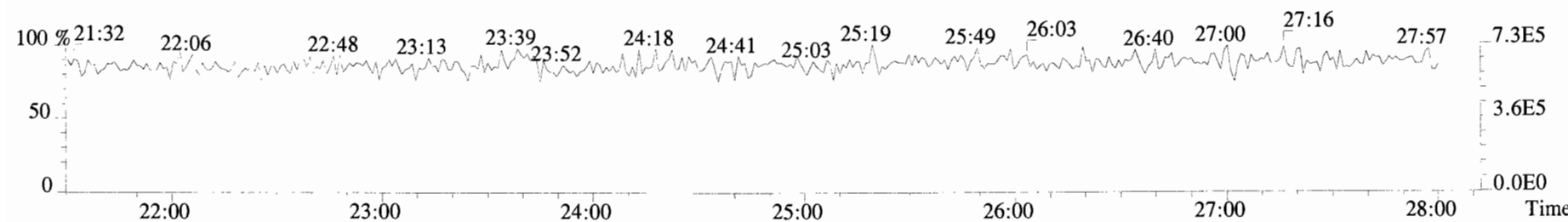
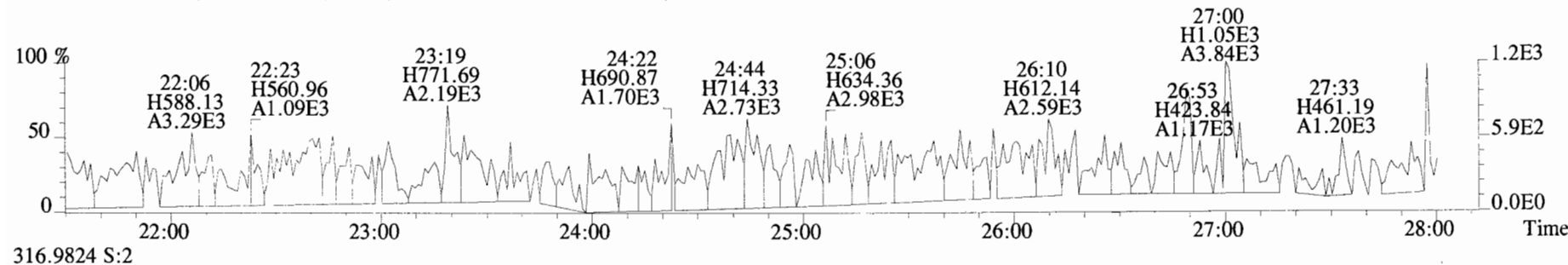
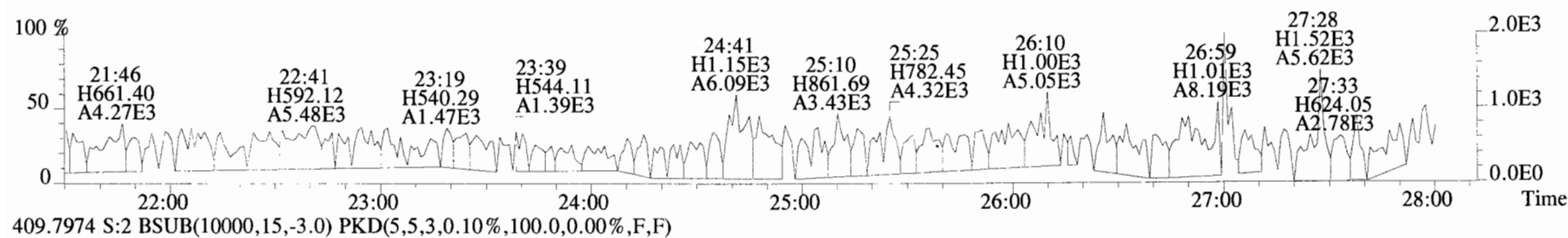
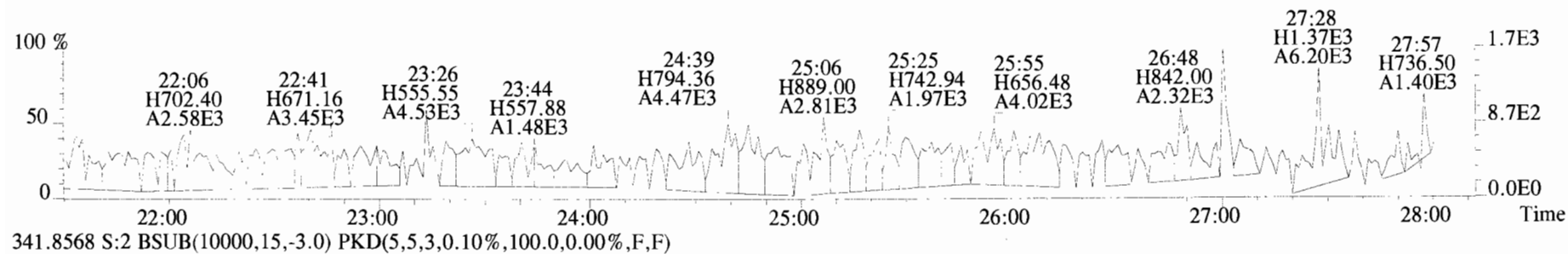
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

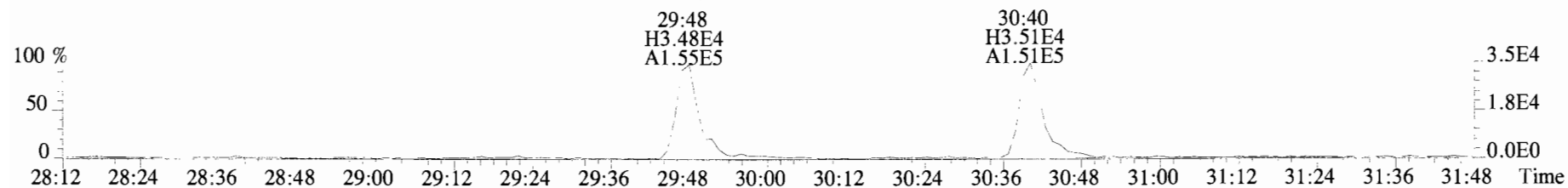


File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
 339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

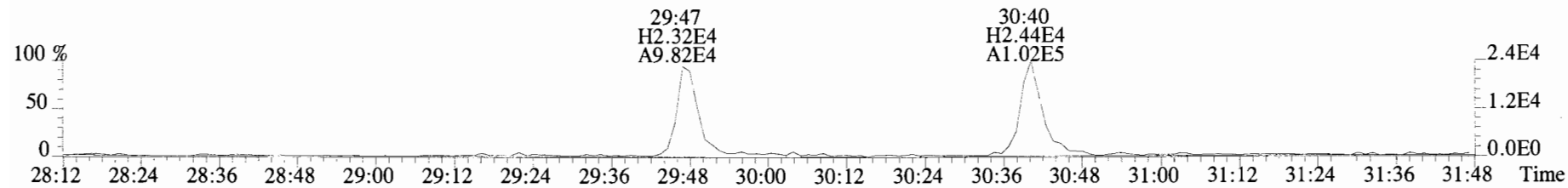




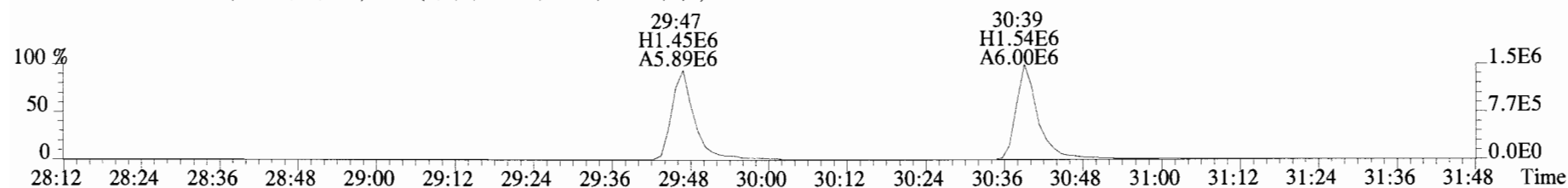
File:191009D1 #1-211 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



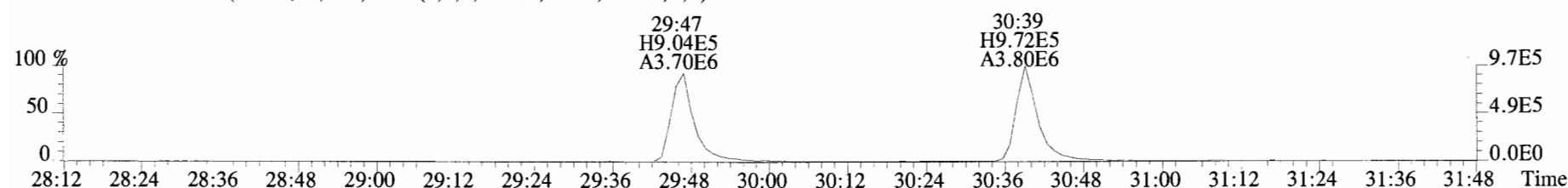
341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



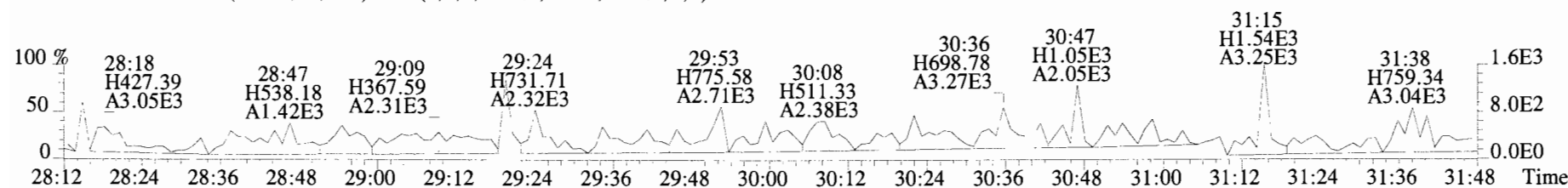
351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



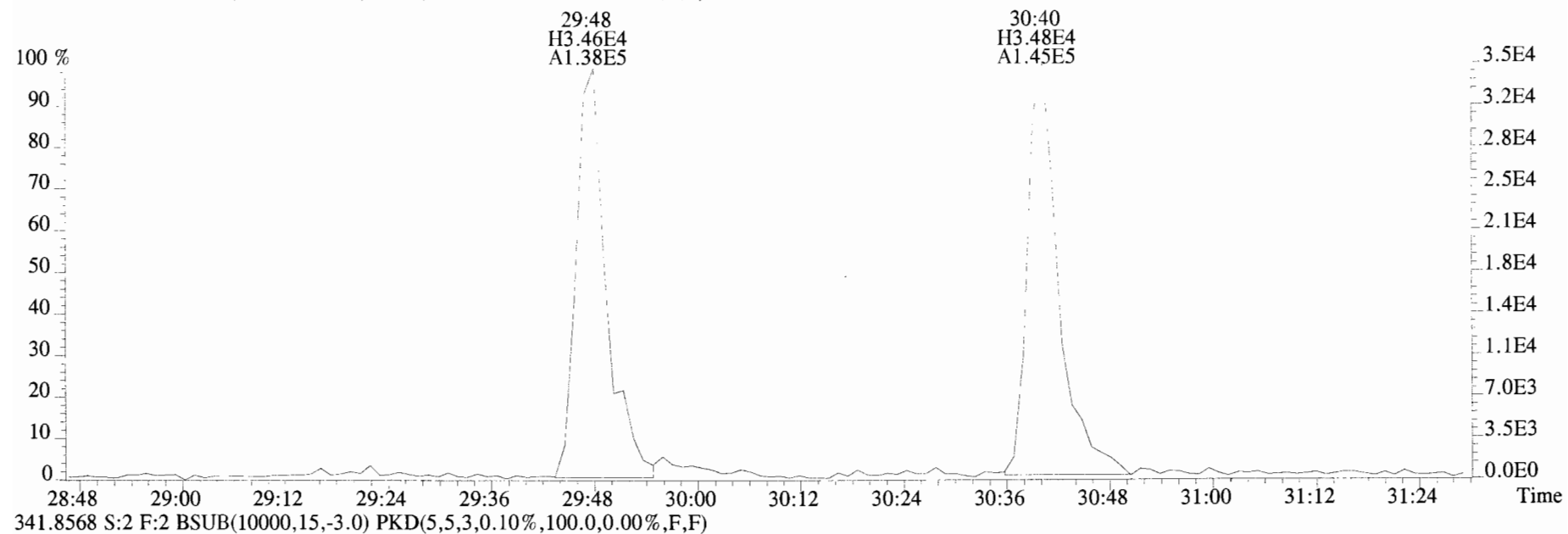
353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



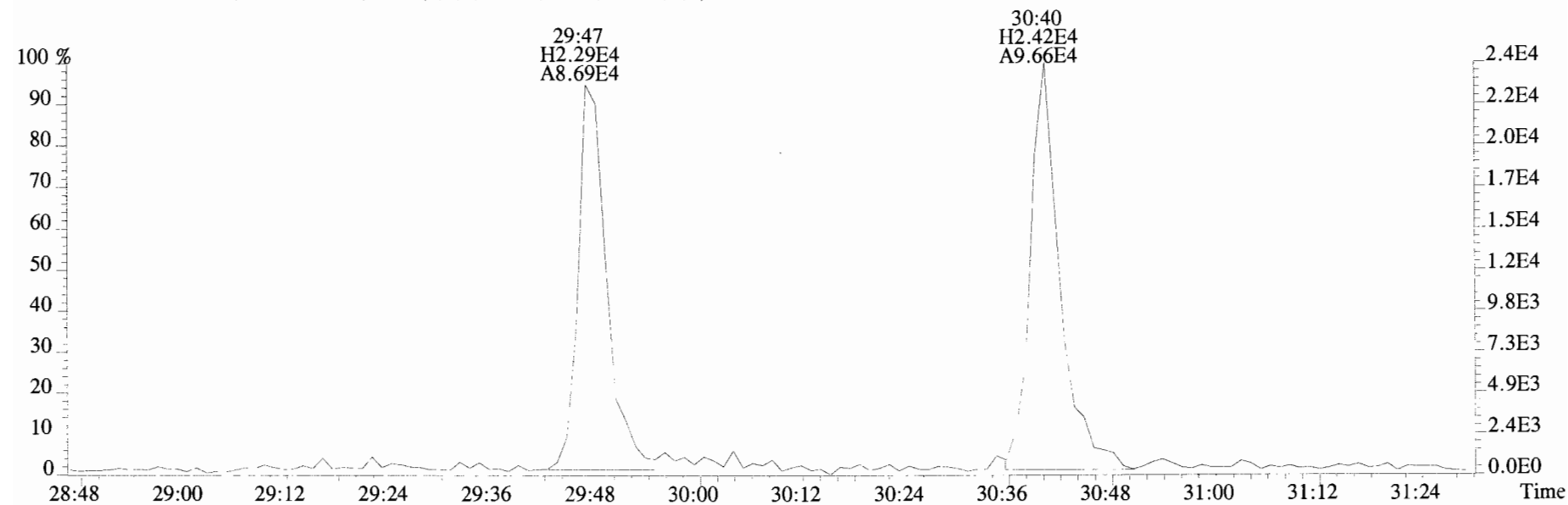
409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



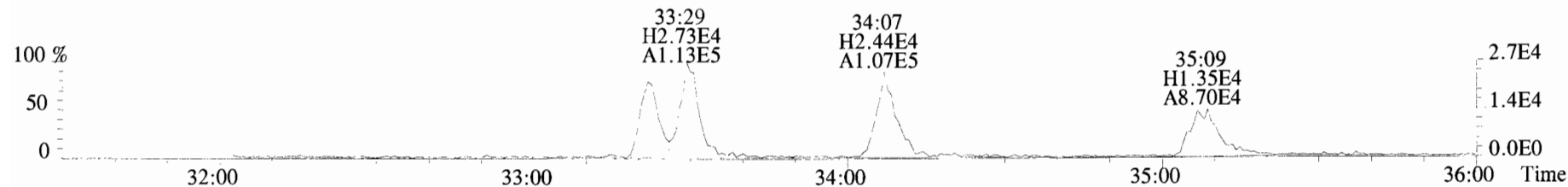
File:191009D1 #1-211 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



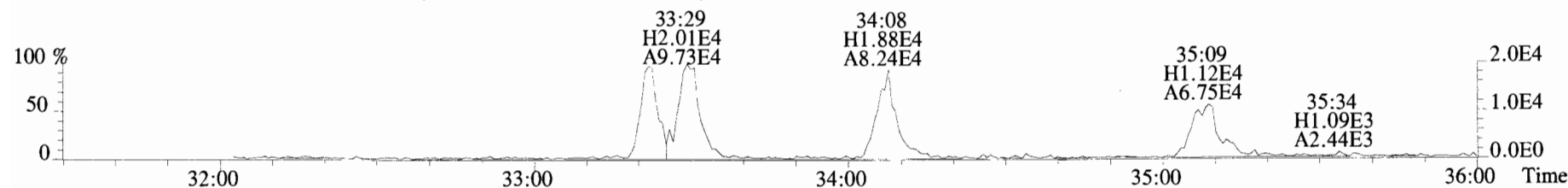
341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



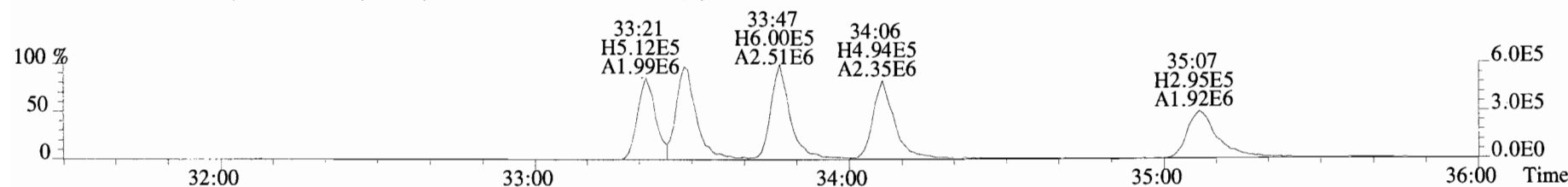
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
 373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



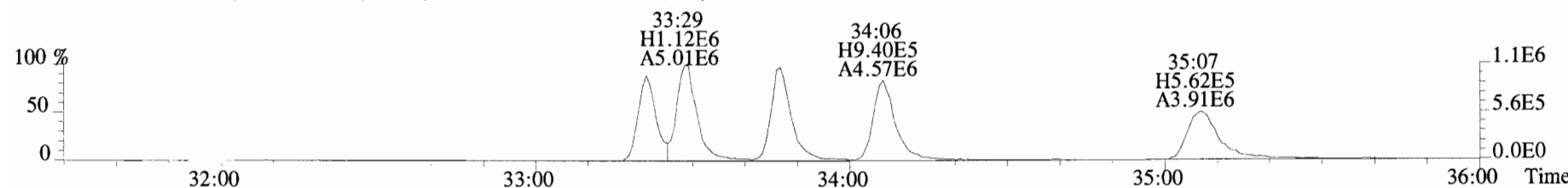
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



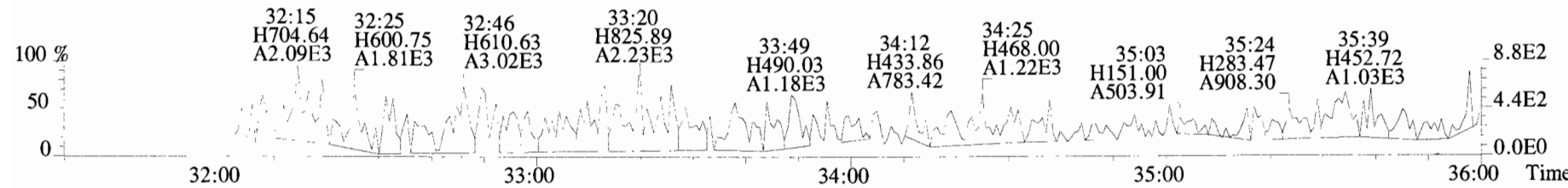
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



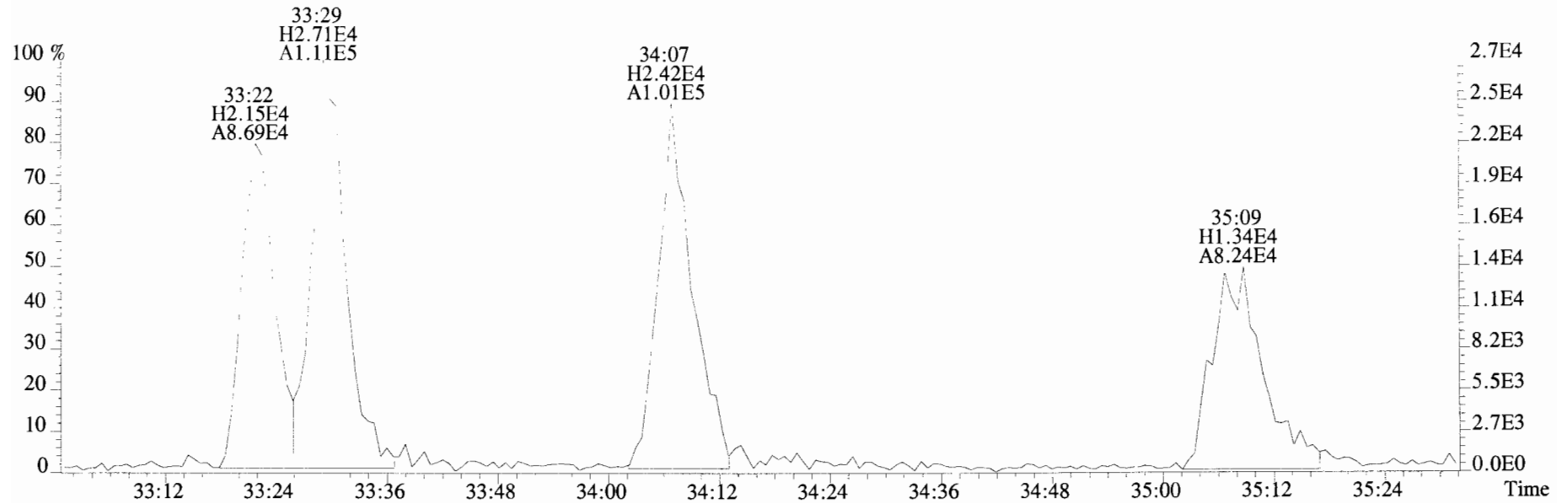
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



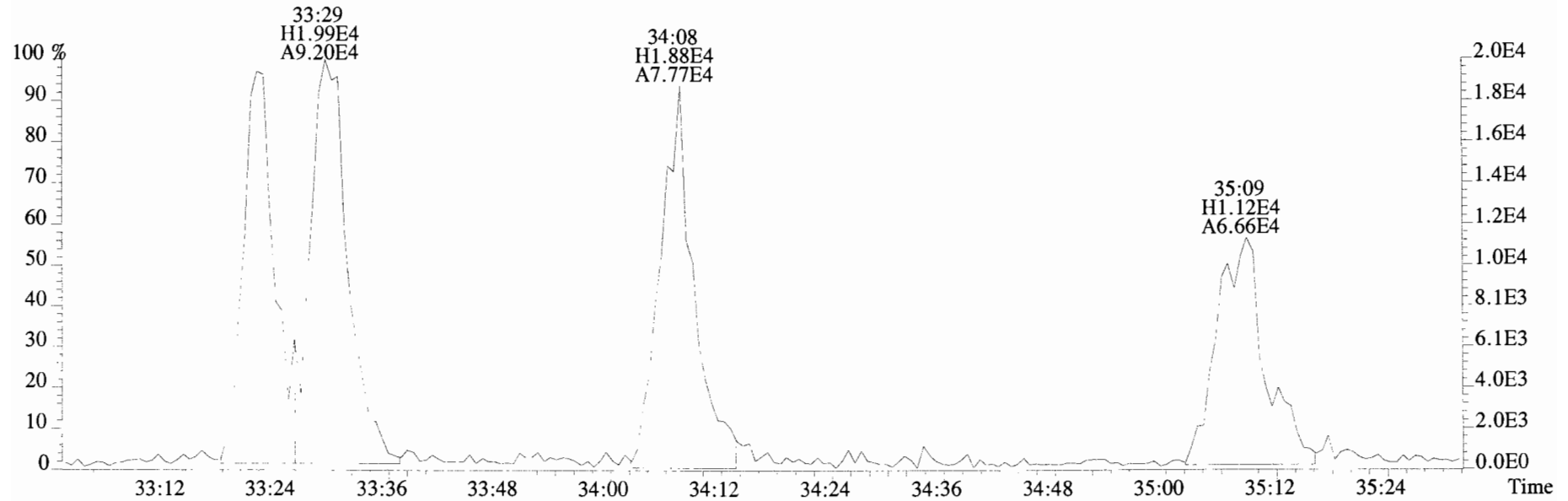
445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



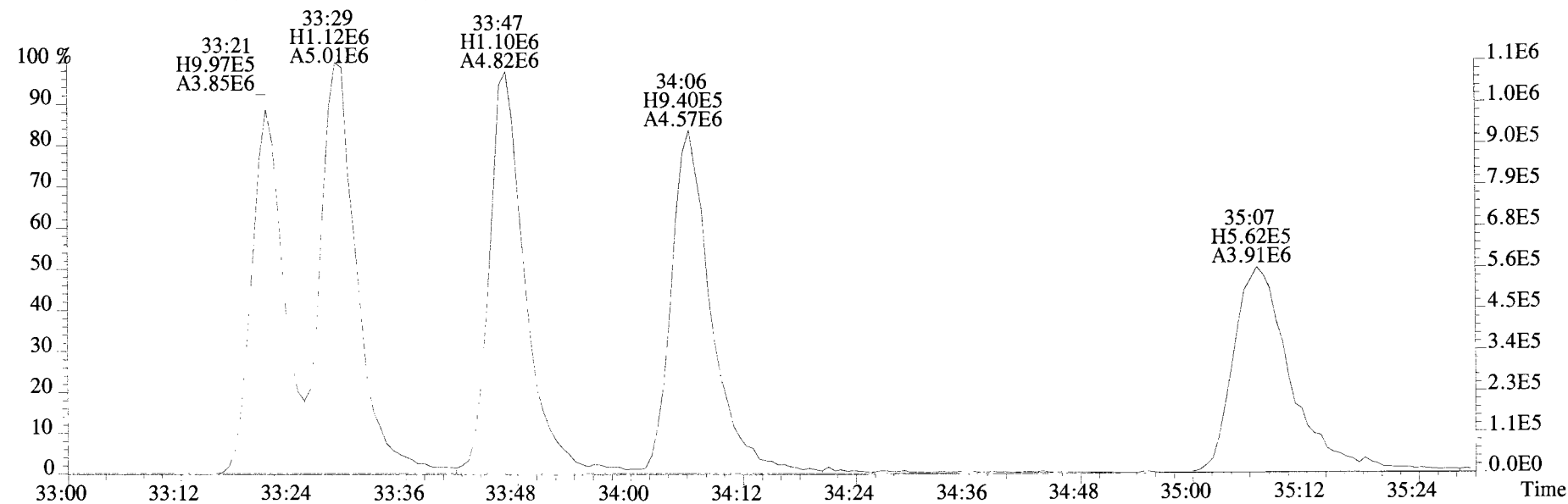
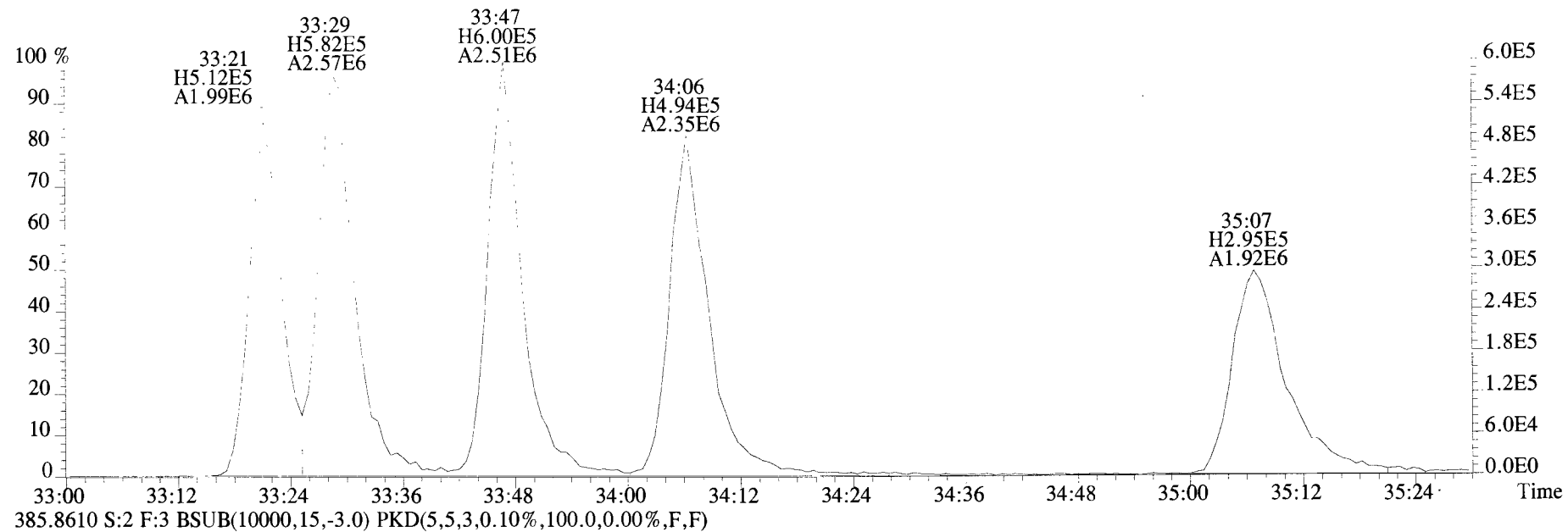
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



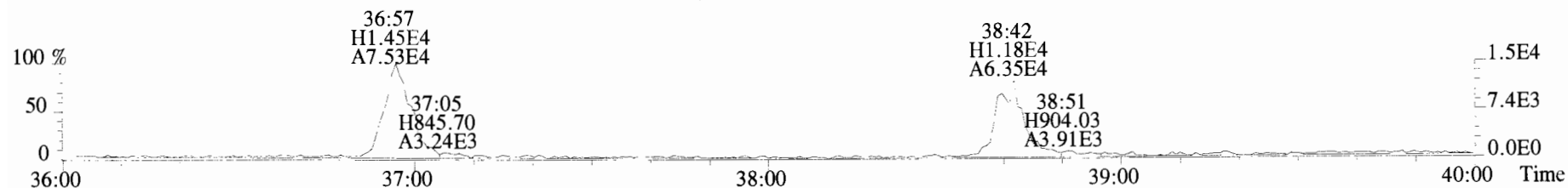
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



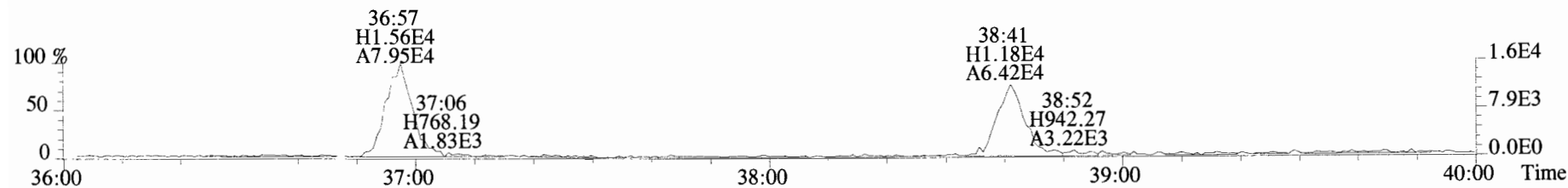
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



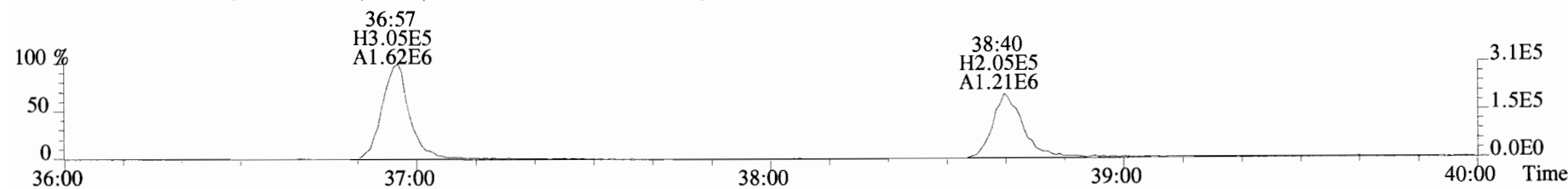
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



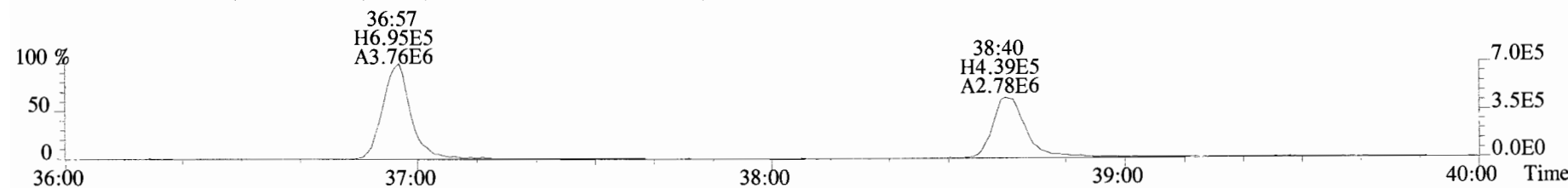
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



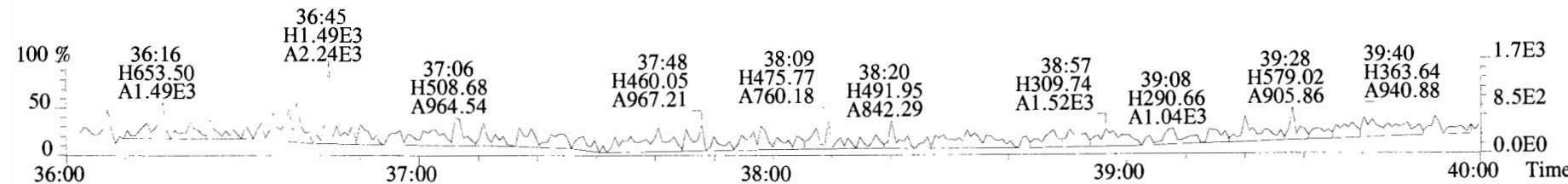
417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



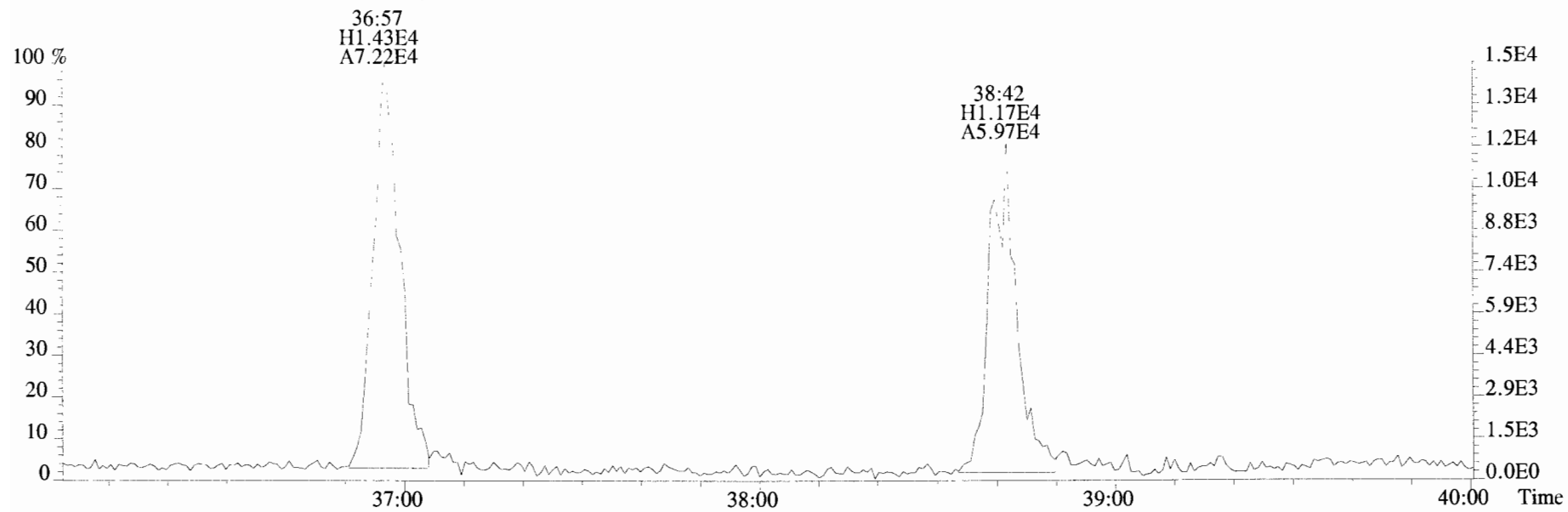
419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



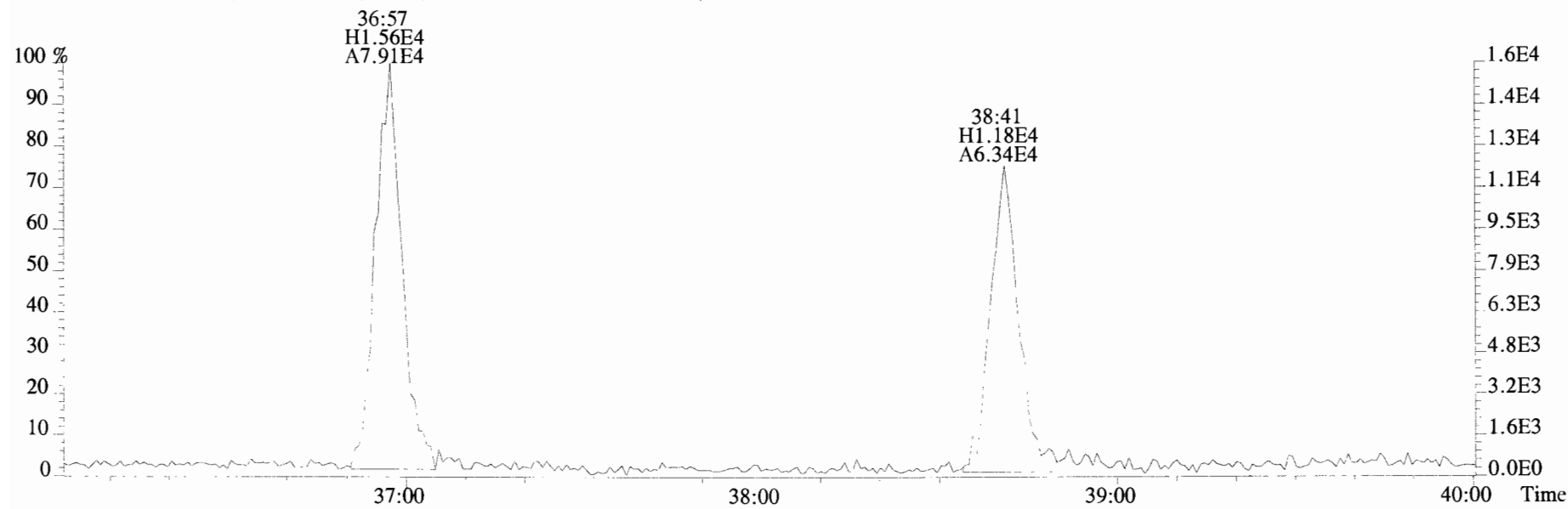
479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



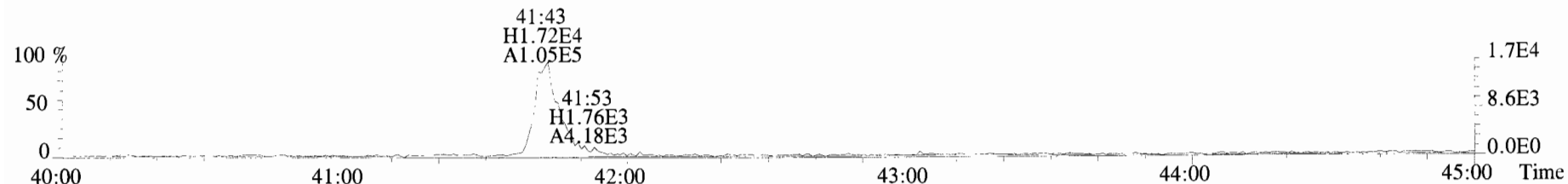
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



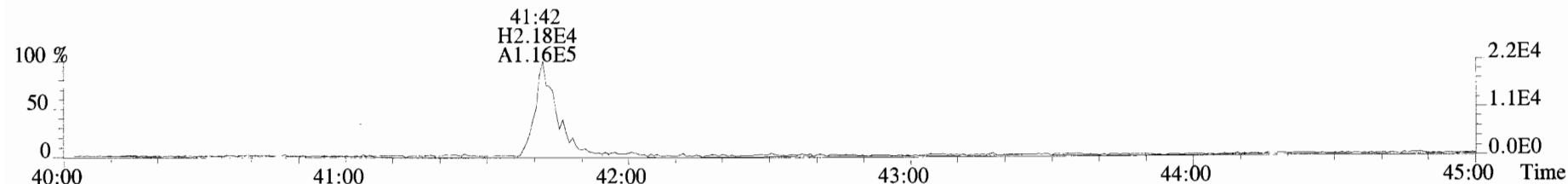
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



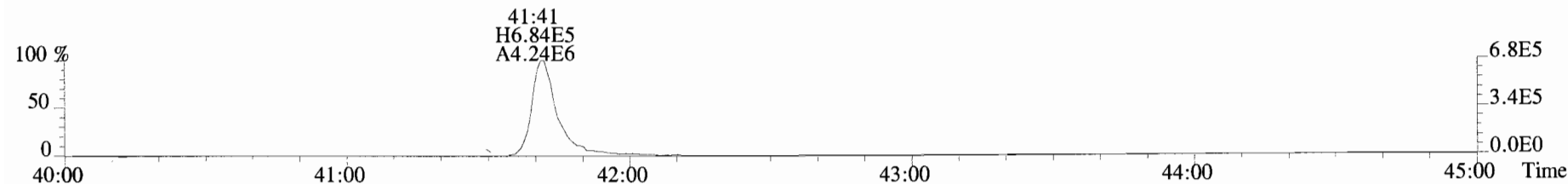
File:191009D1 #1-432 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
 441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



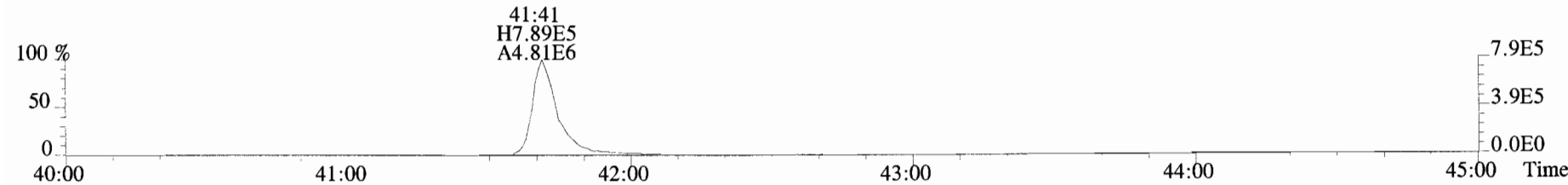
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



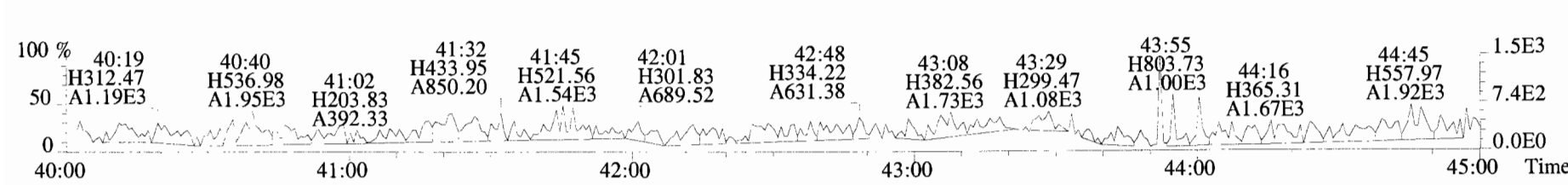
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

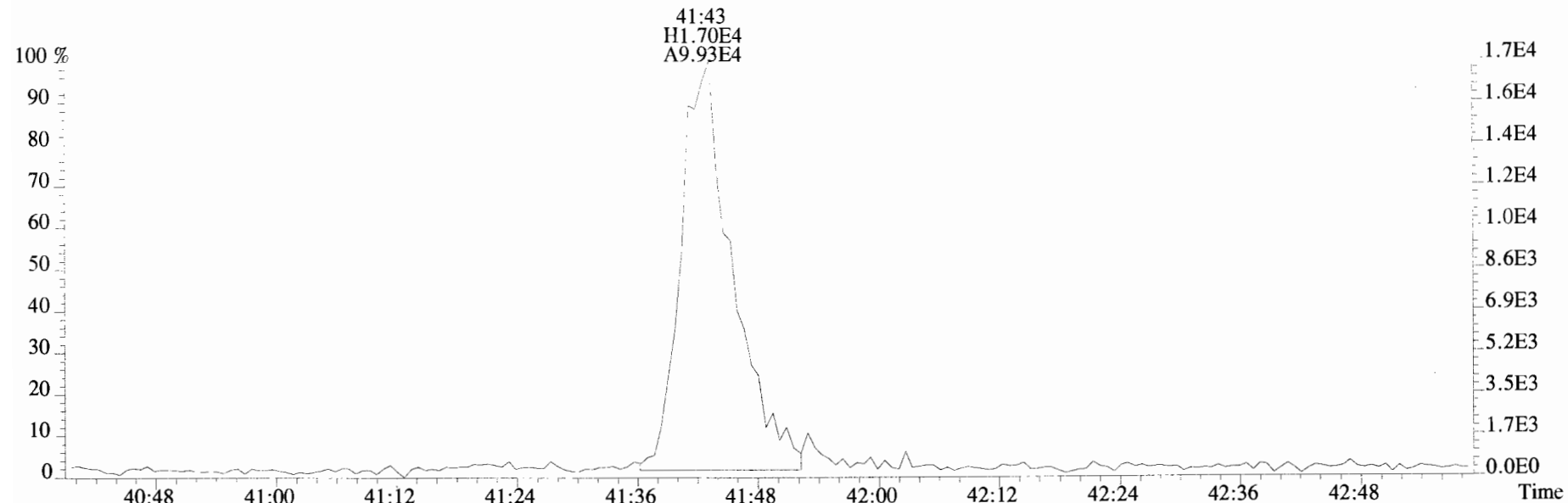


513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

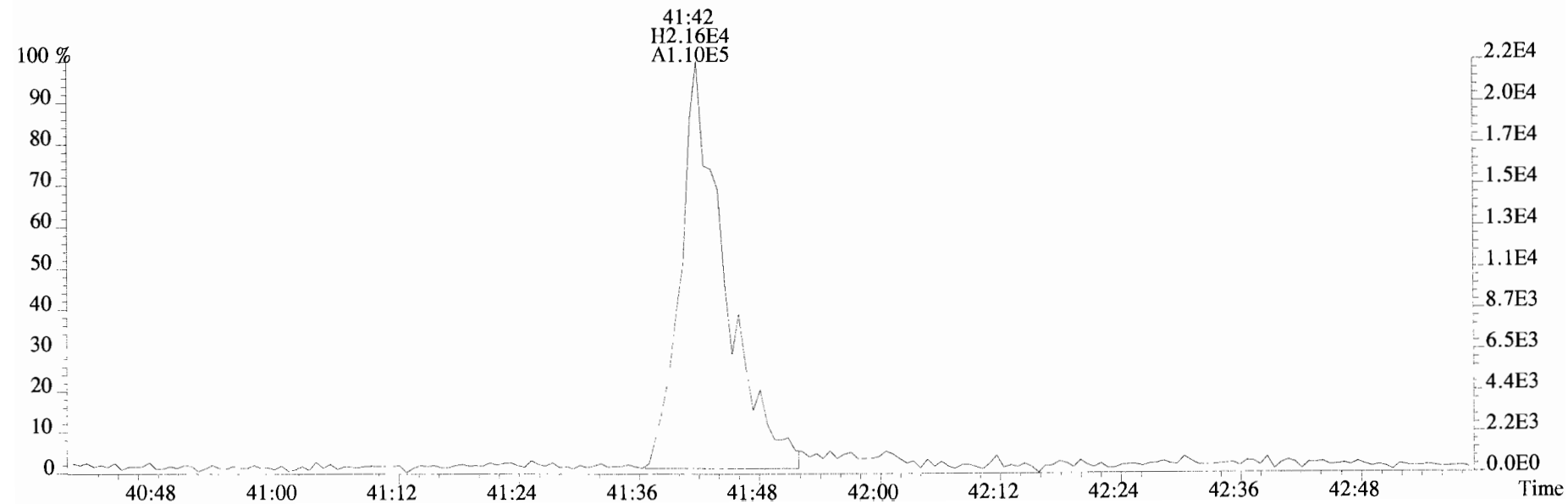




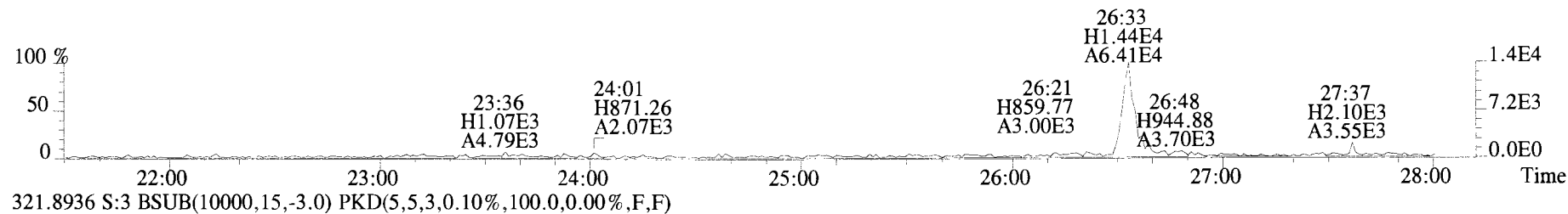
File:191009D1 #1-432 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD\_DB5  
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



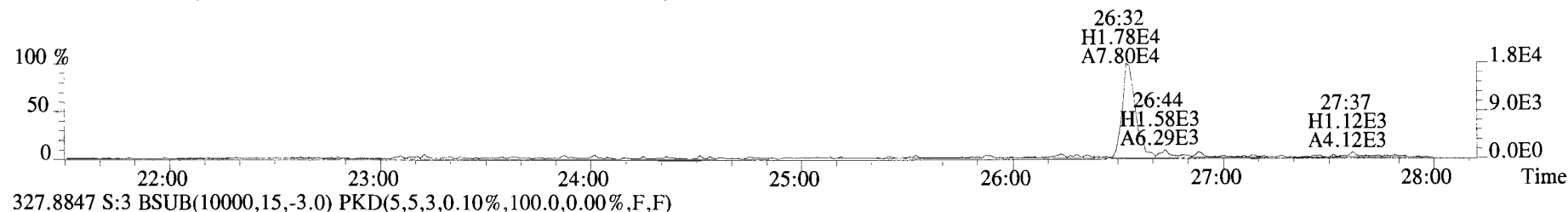
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



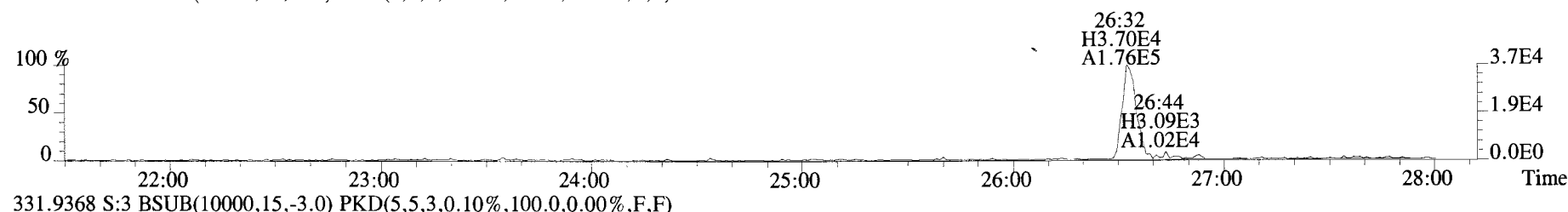
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



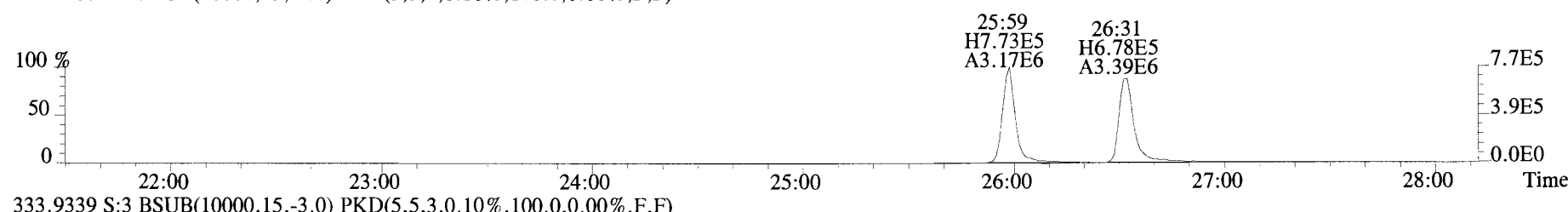
321.8936 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



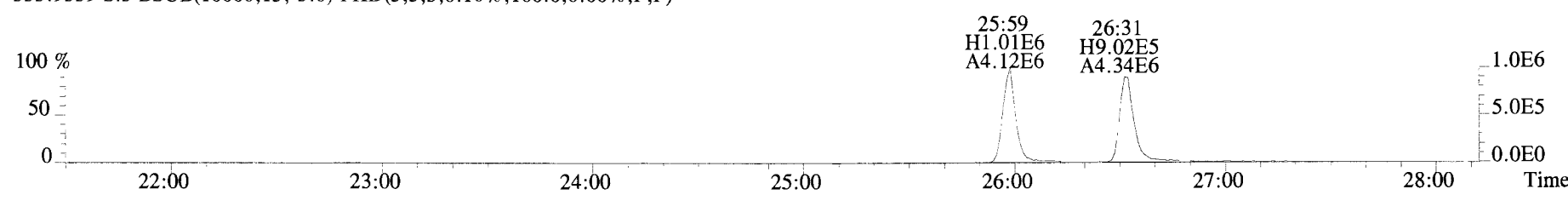
327.8847 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



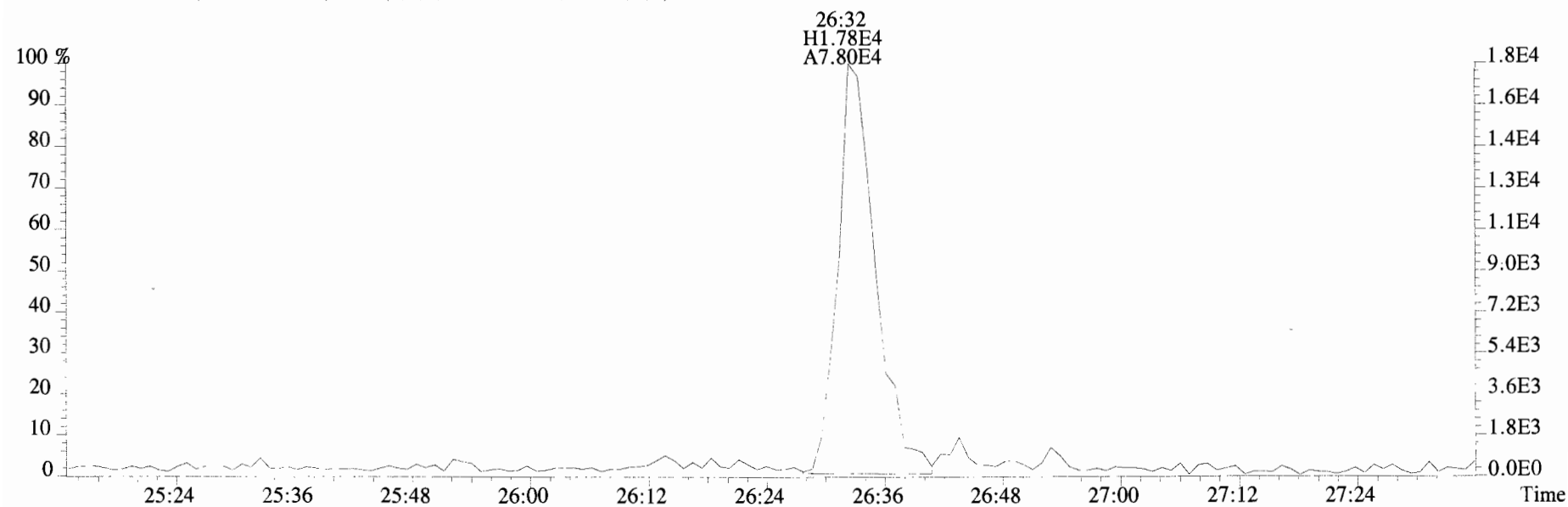
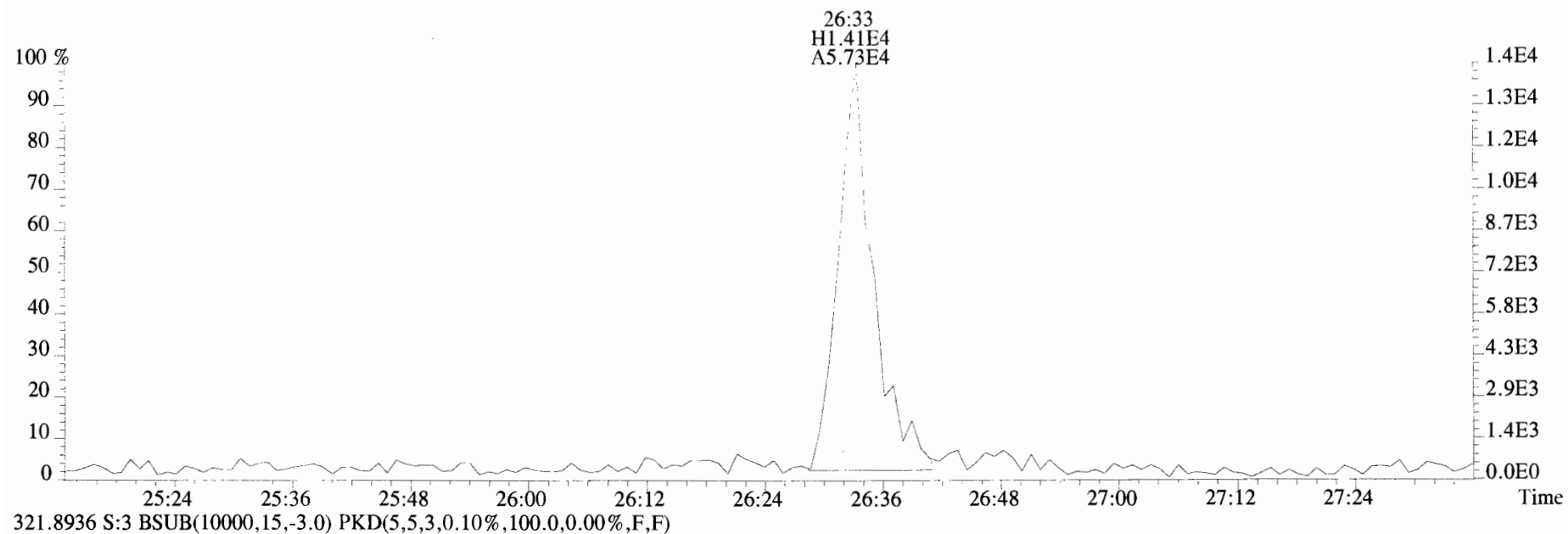
331.9368 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



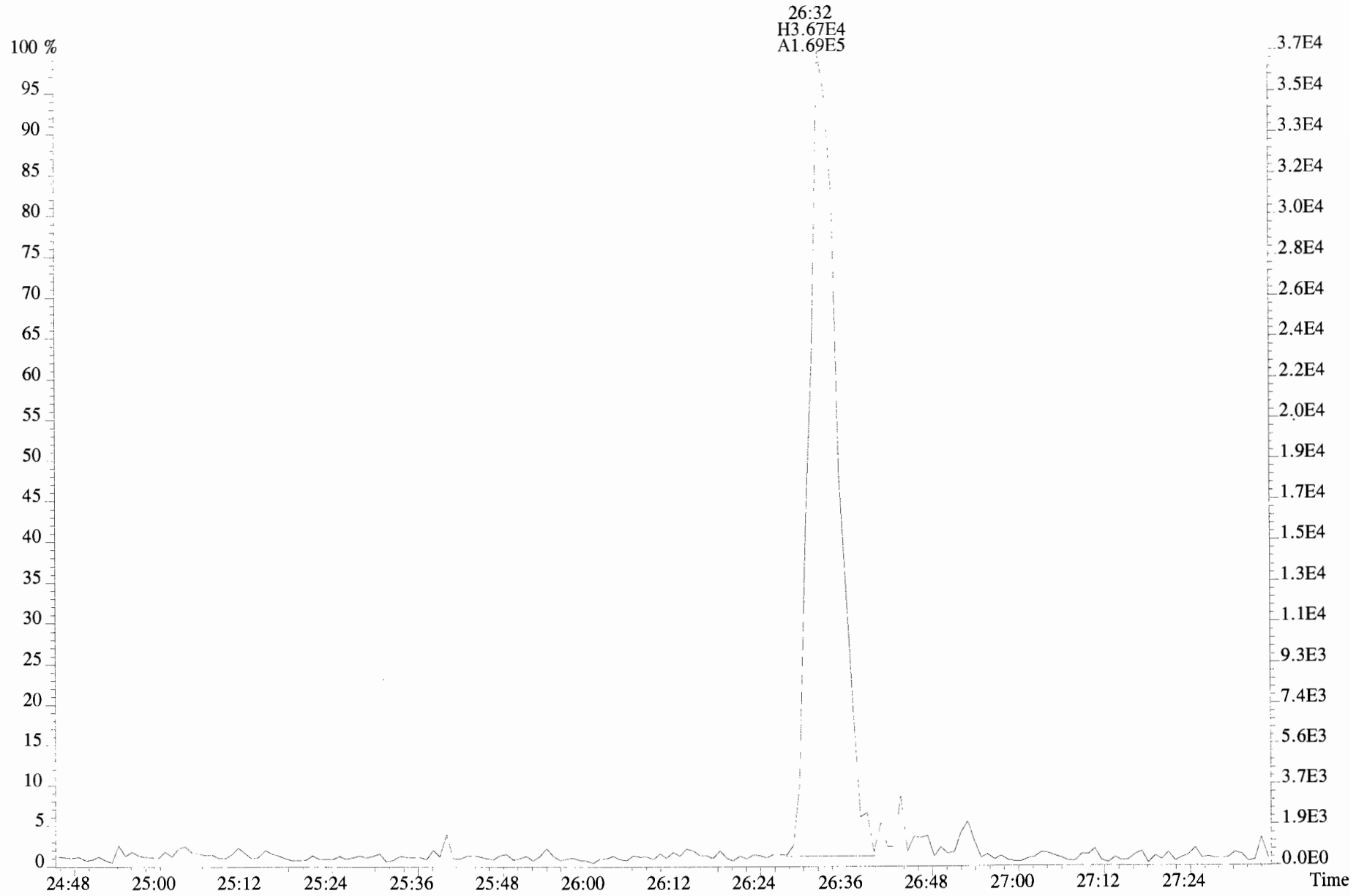
333.9339 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



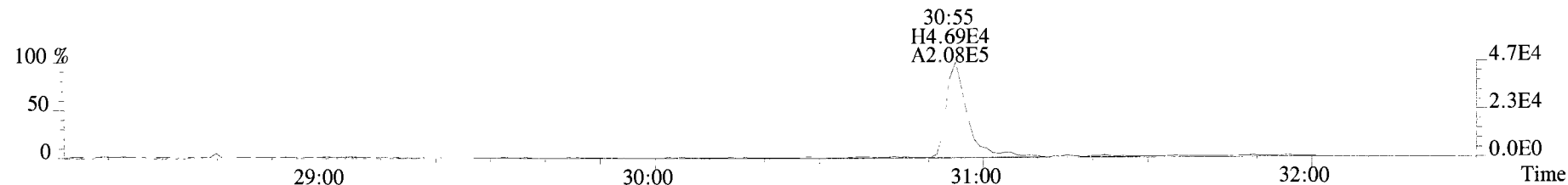
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



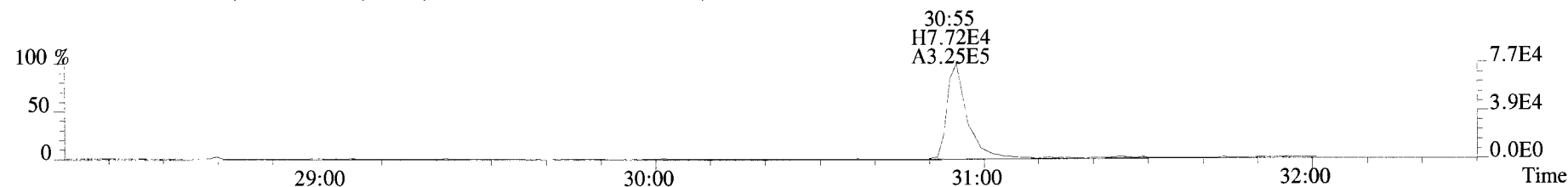
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
327.8847 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



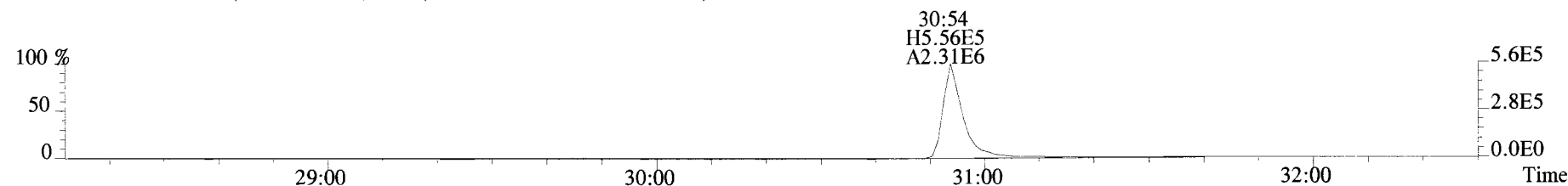
File:191009D1 #1-211 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
353.8576 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



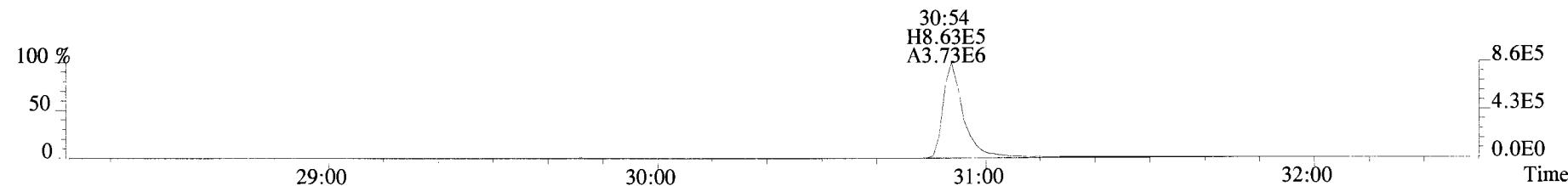
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



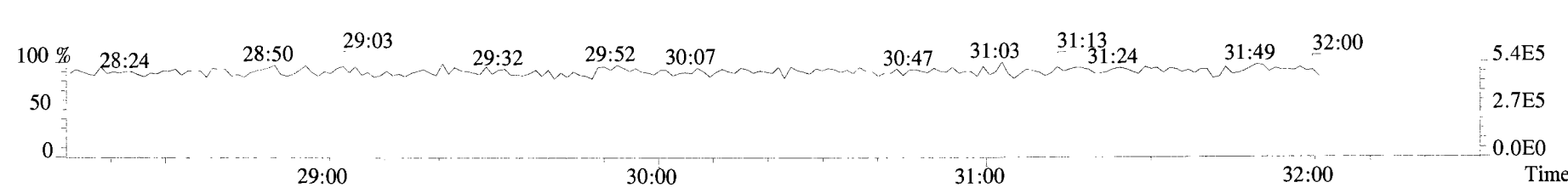
365.8978 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



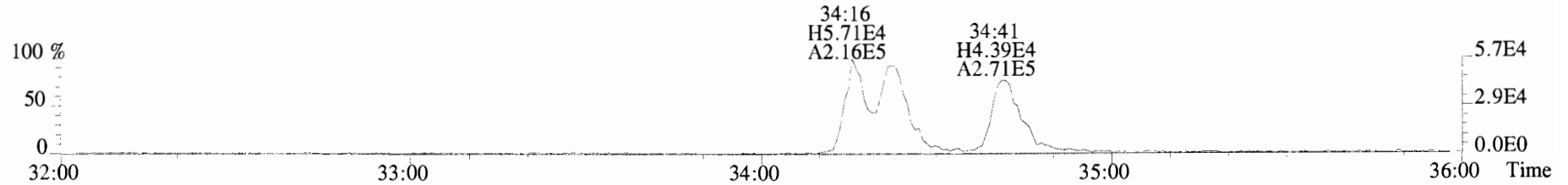
367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



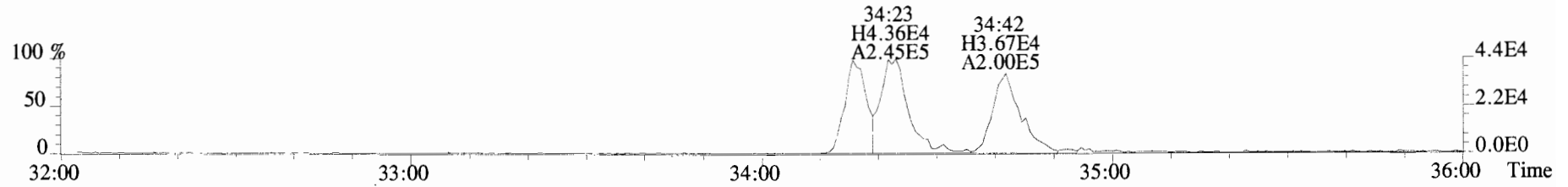
366.9792 S:3 F:2



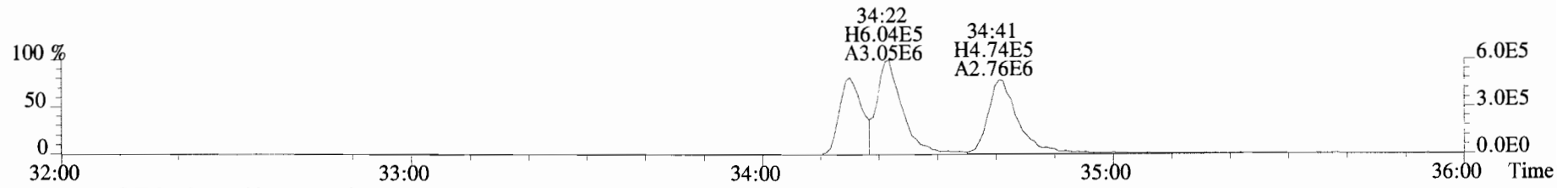
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



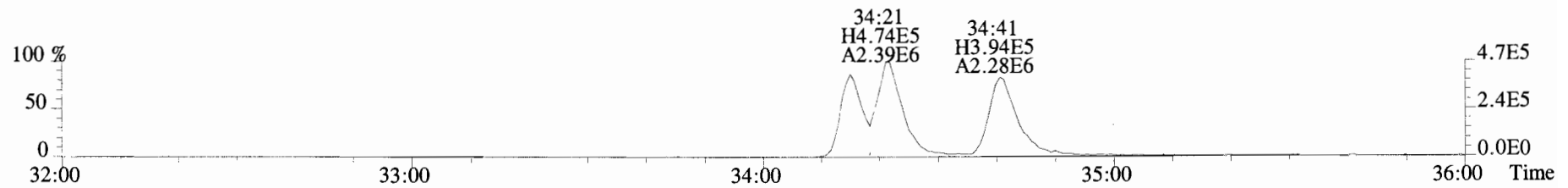
391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



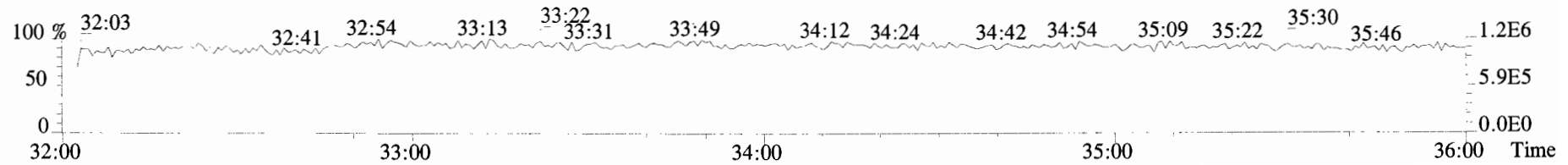
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



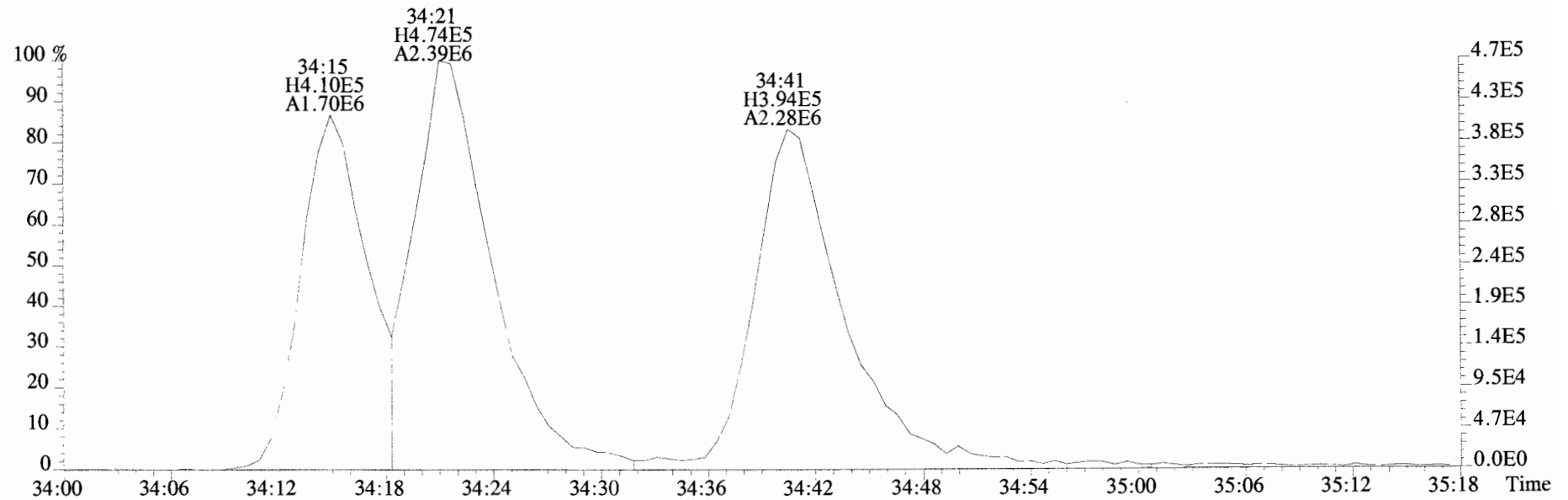
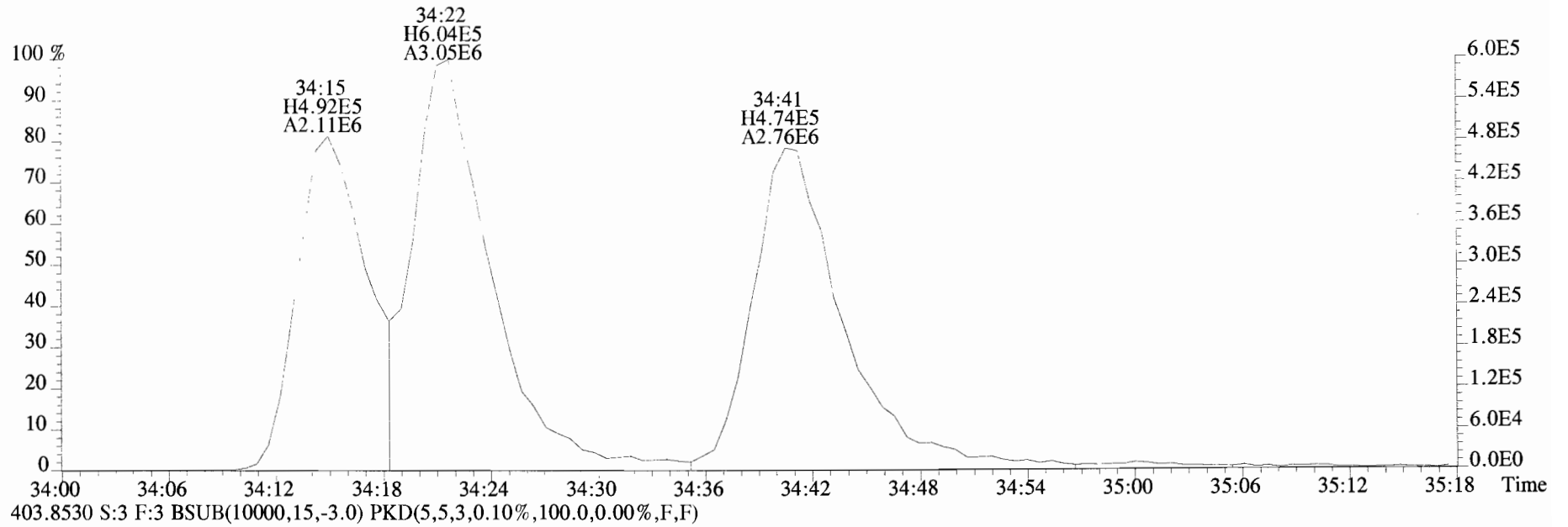
403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



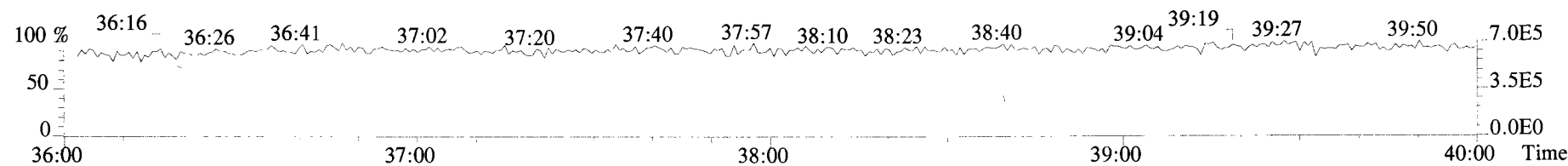
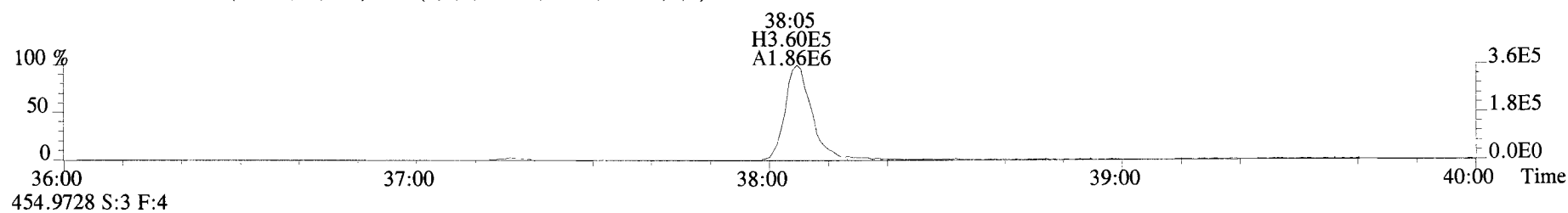
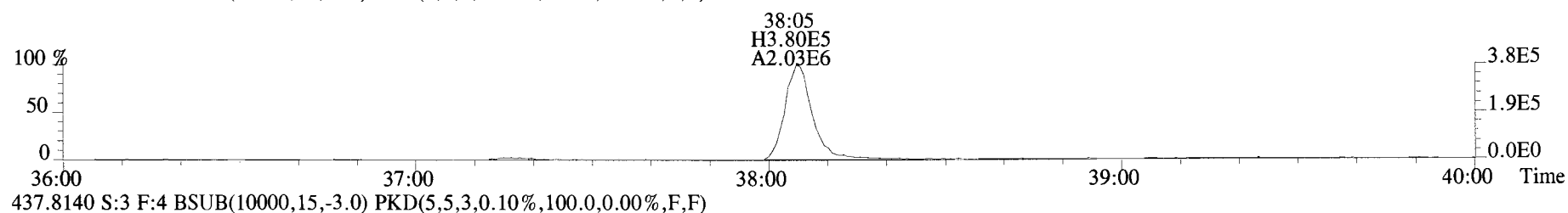
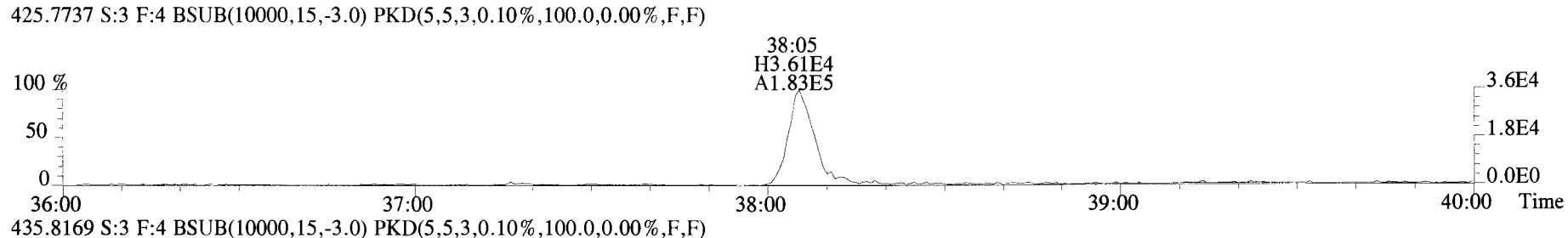
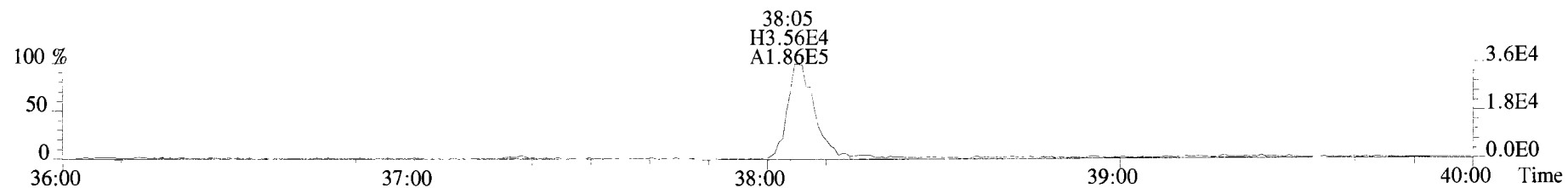
392.9760 S:3 F:3



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)

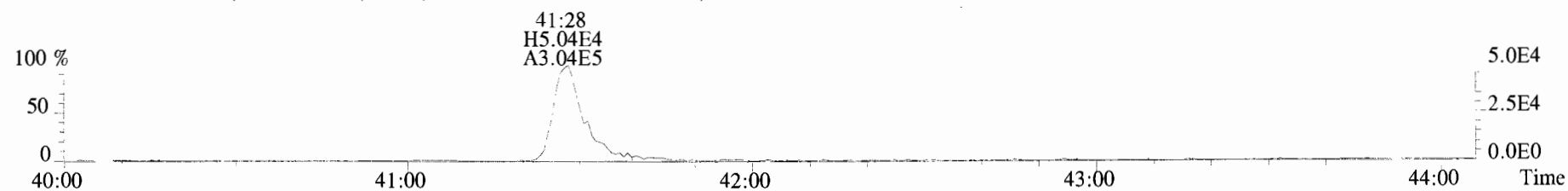


File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

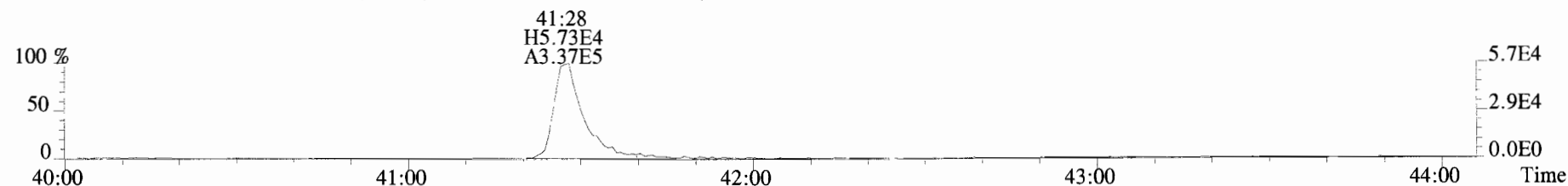




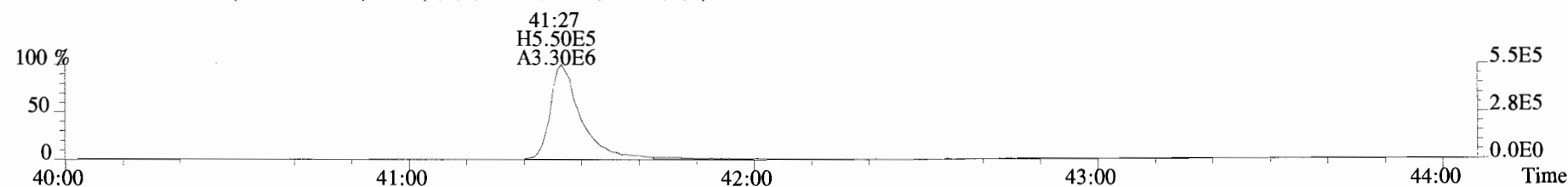
File:191009D1 #1-432 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



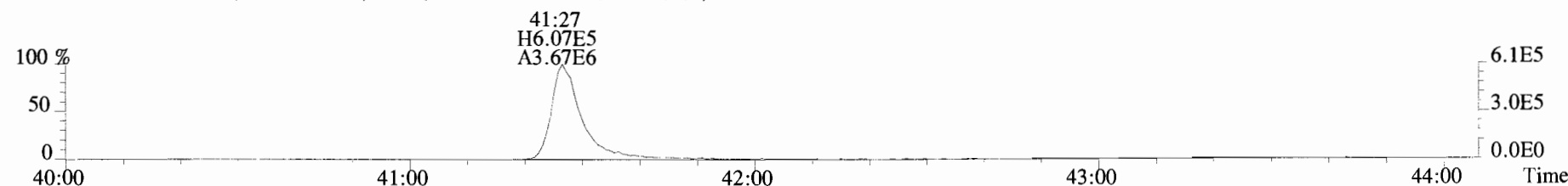
459.7348 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



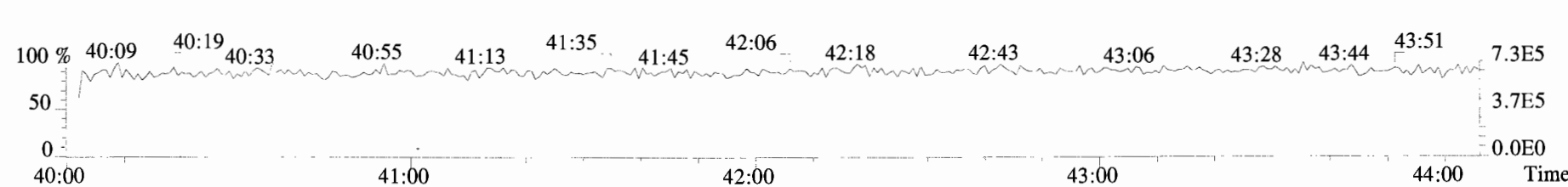
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



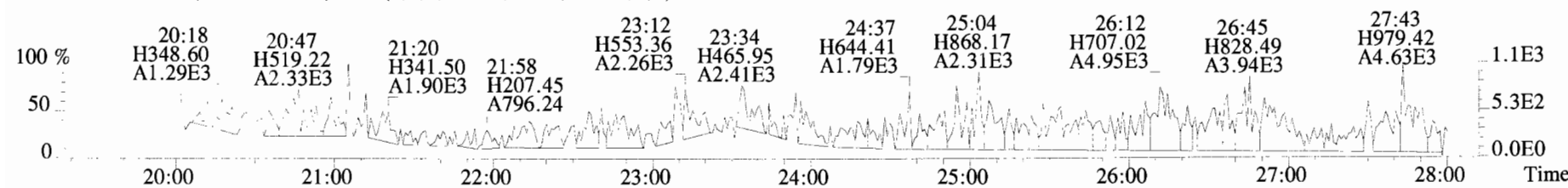
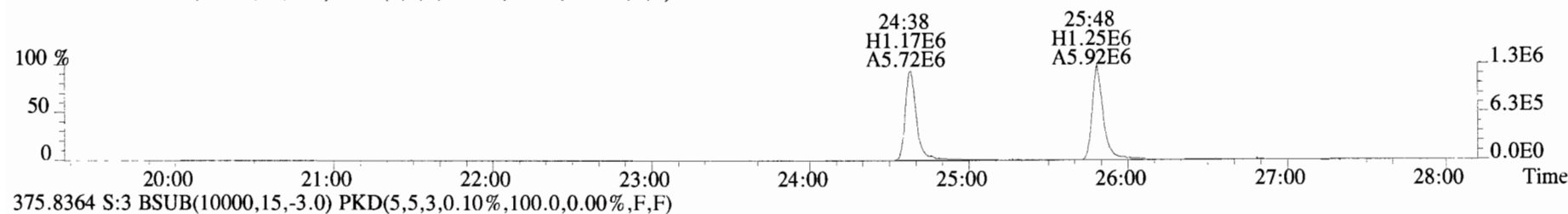
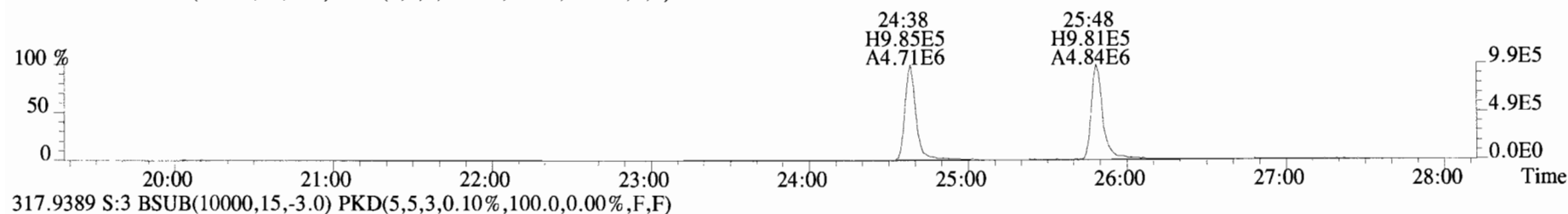
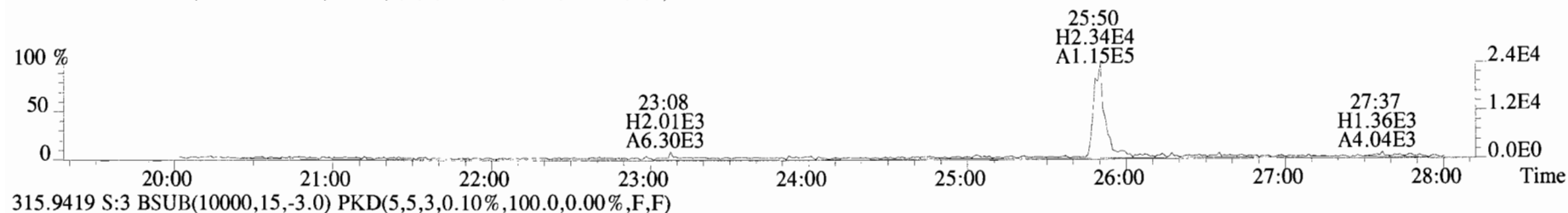
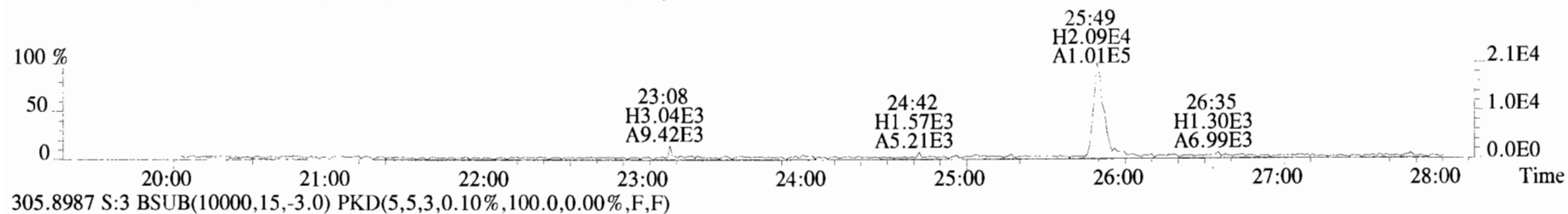
471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



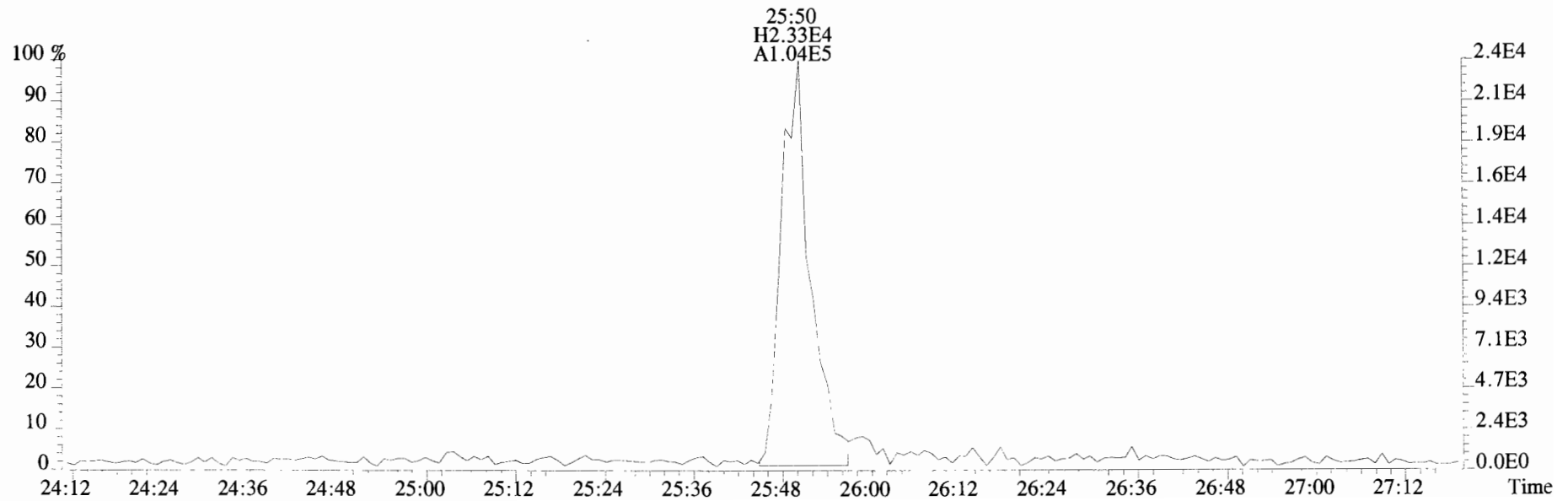
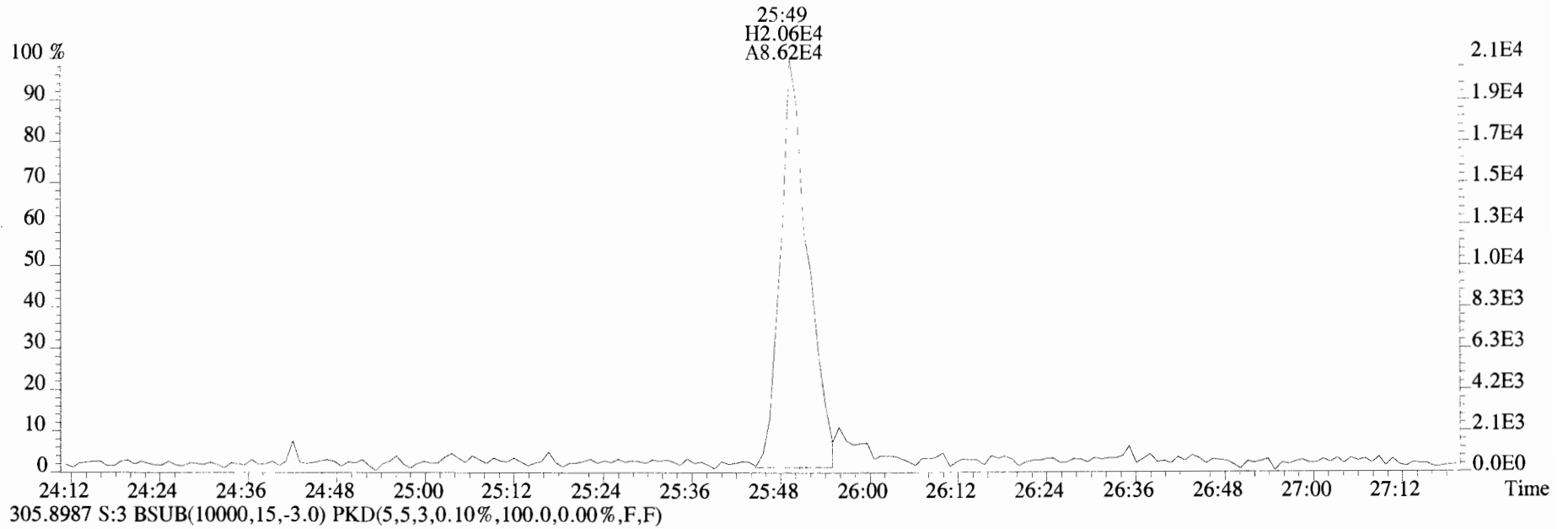
454.9728 S:3 F:5



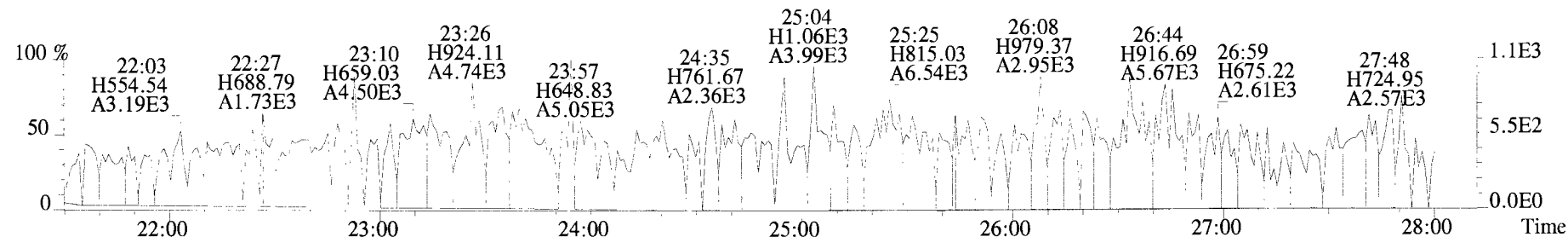
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



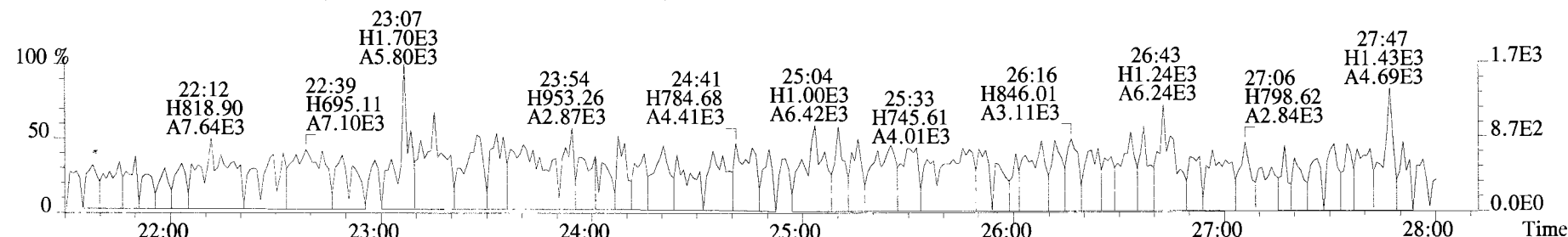
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



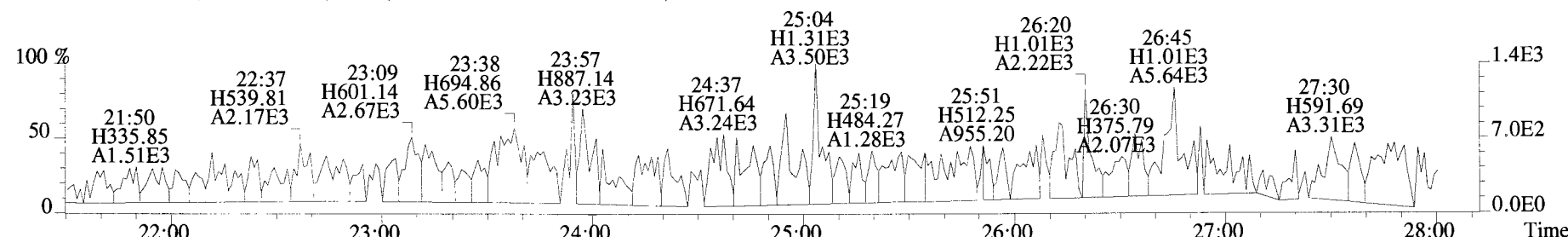
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
 339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



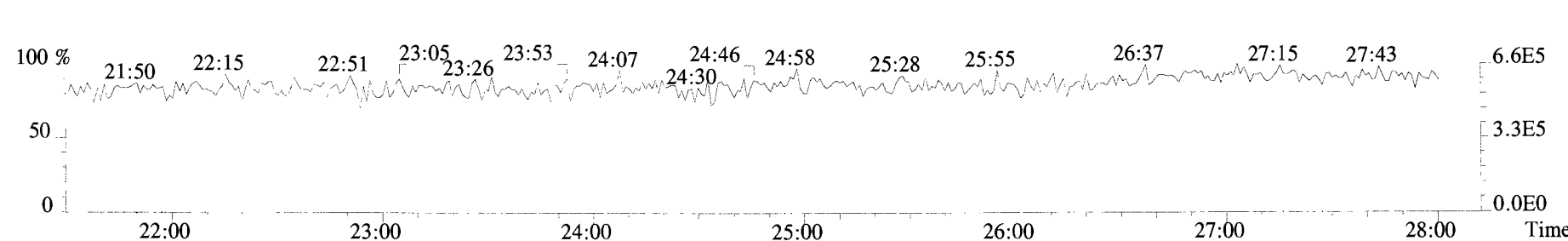
341.8568 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



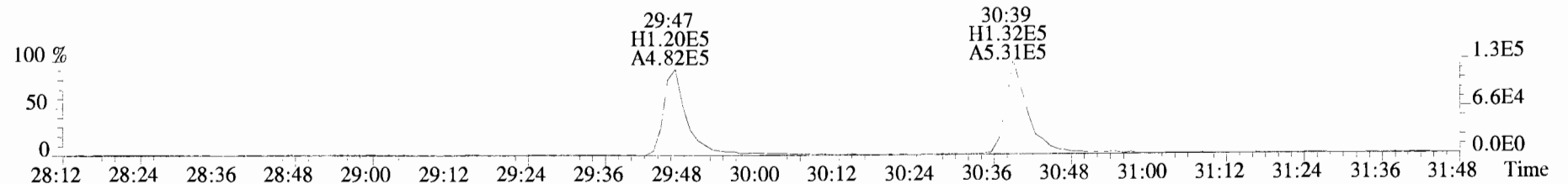
409.7974 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



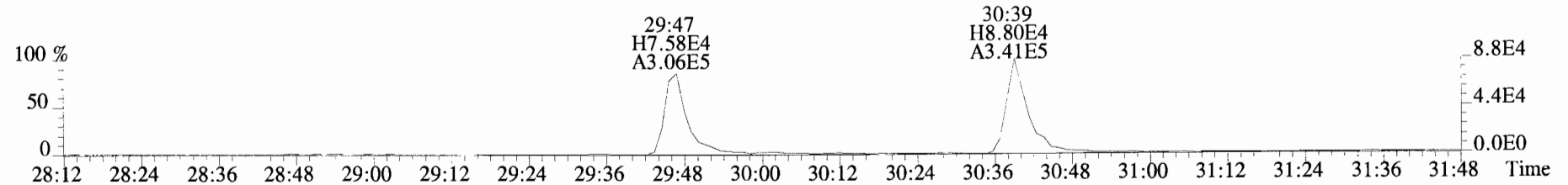
316.9824 S:3



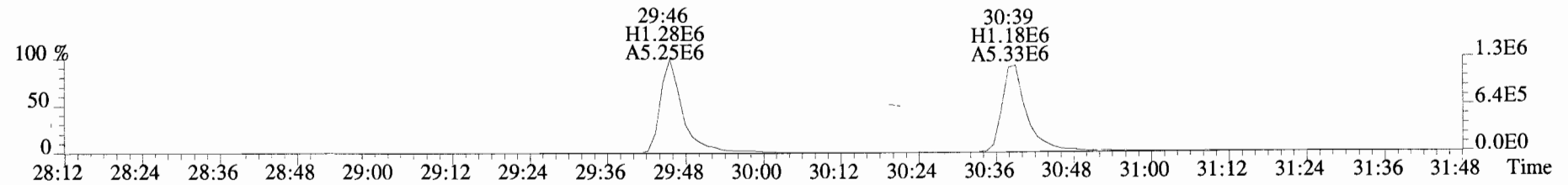
File:191009D1 #1-211 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



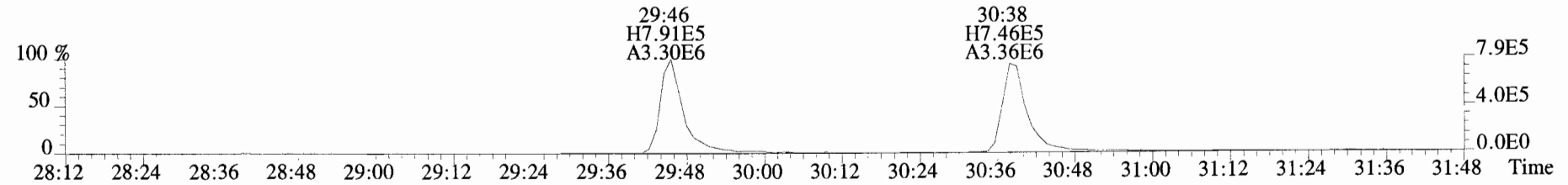
341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



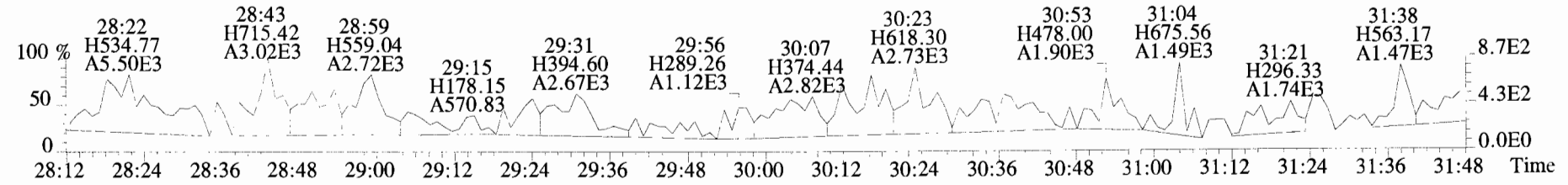
351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



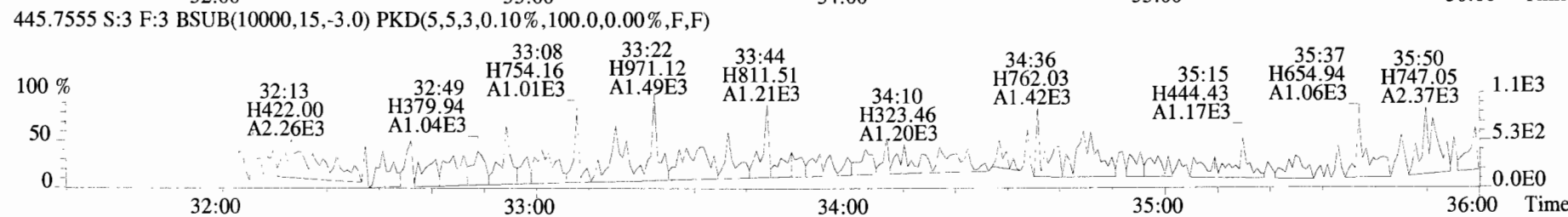
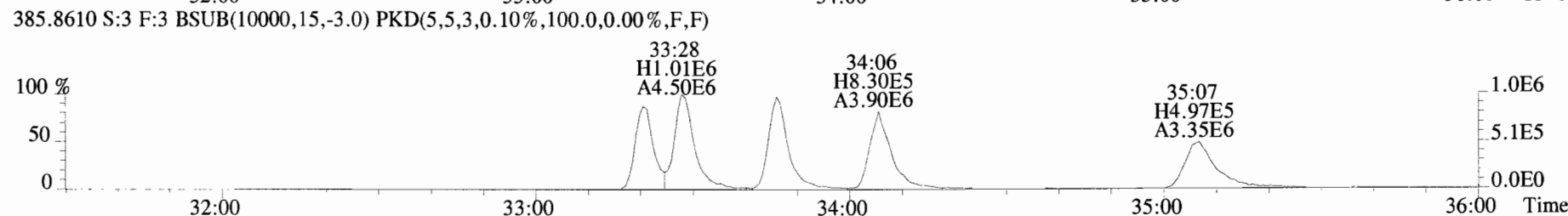
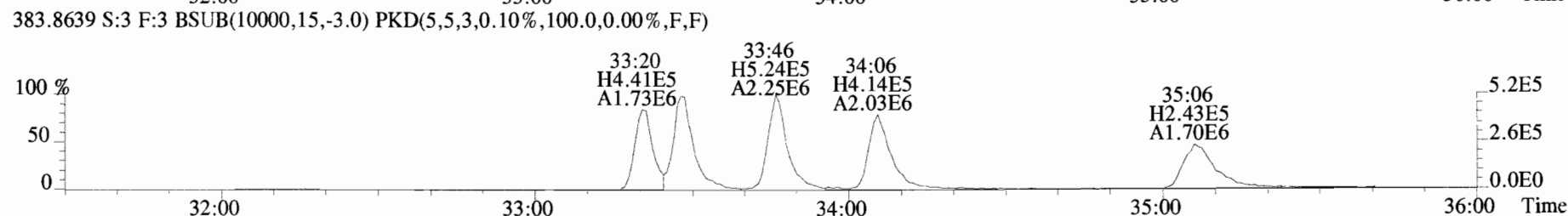
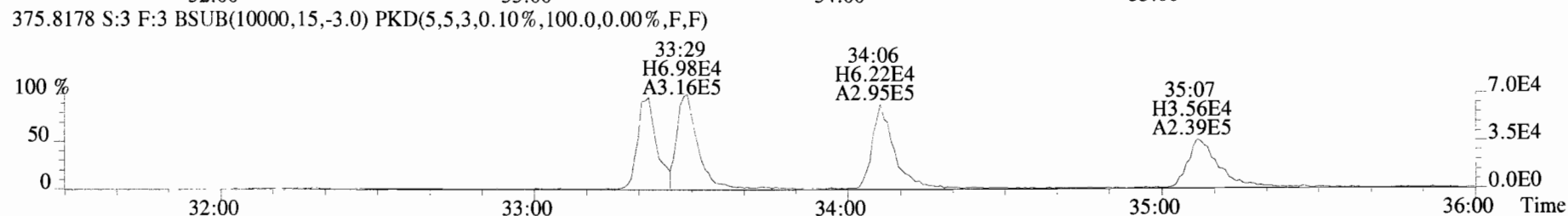
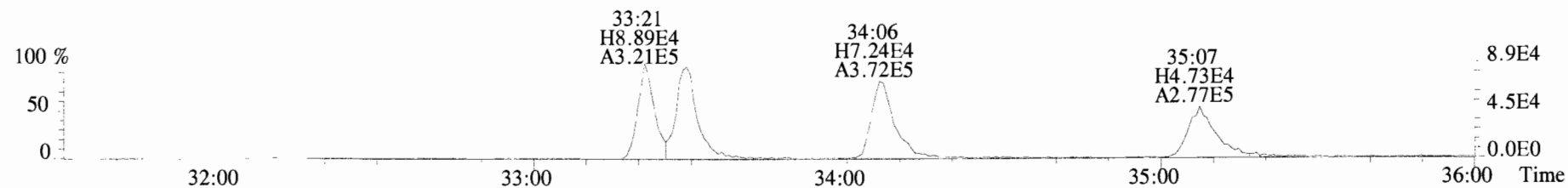
353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



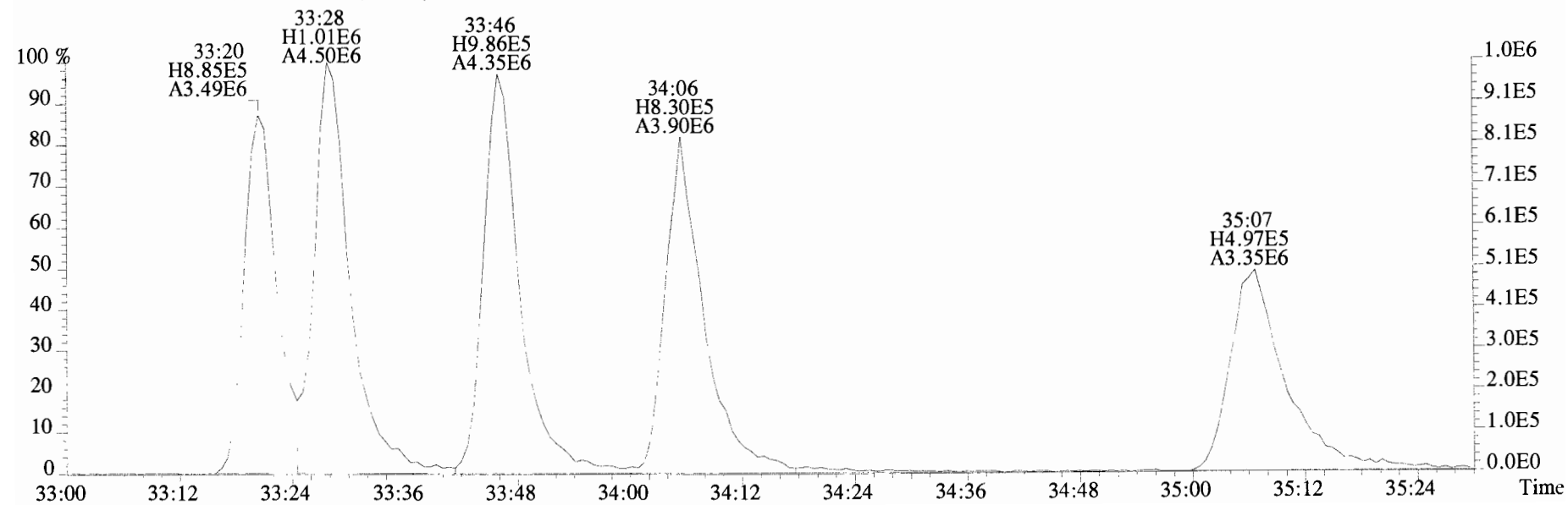
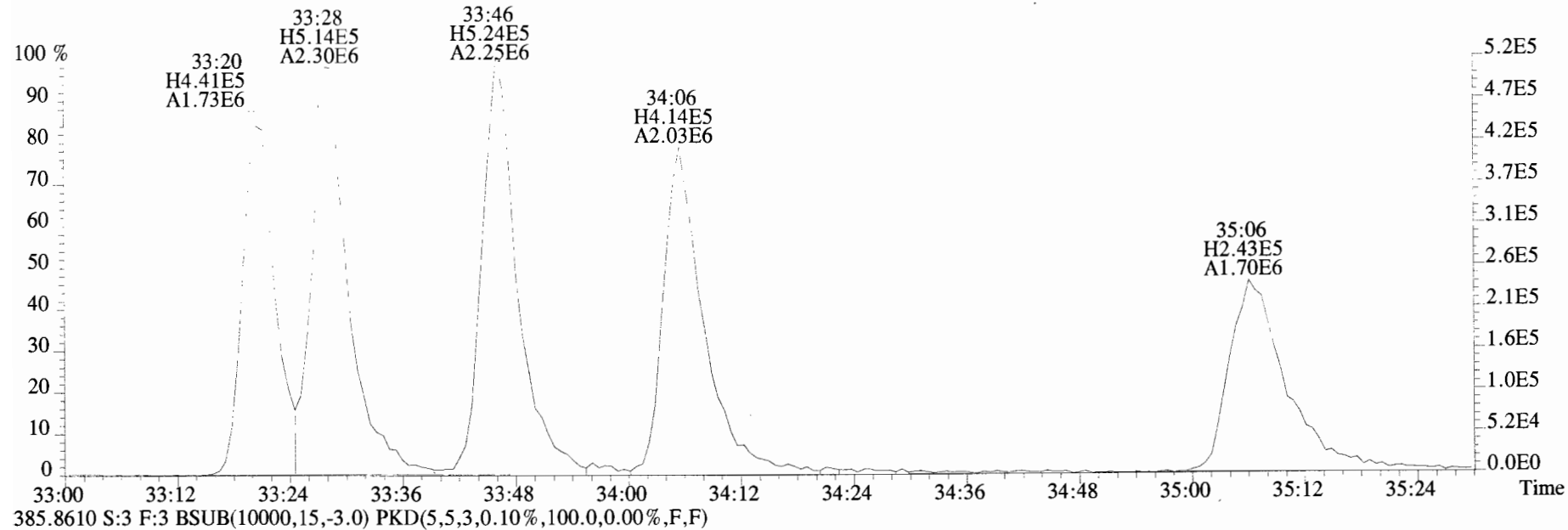
409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



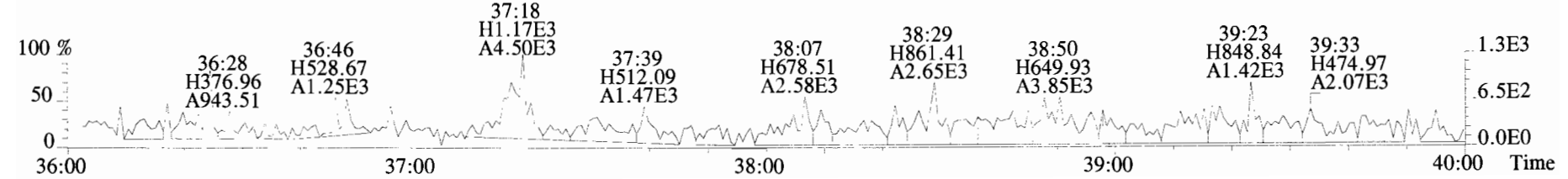
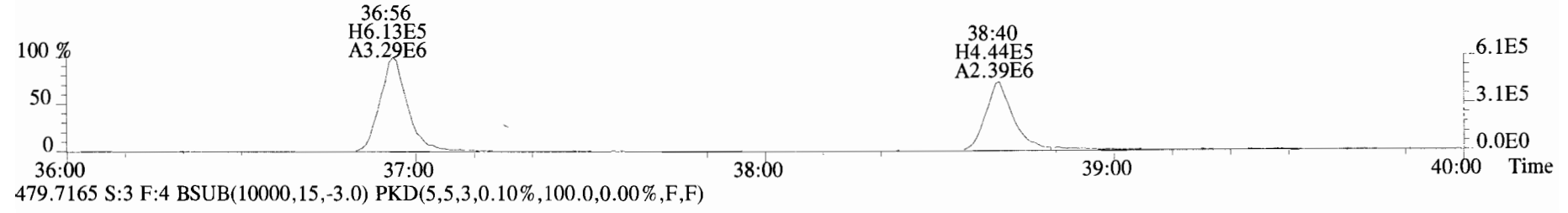
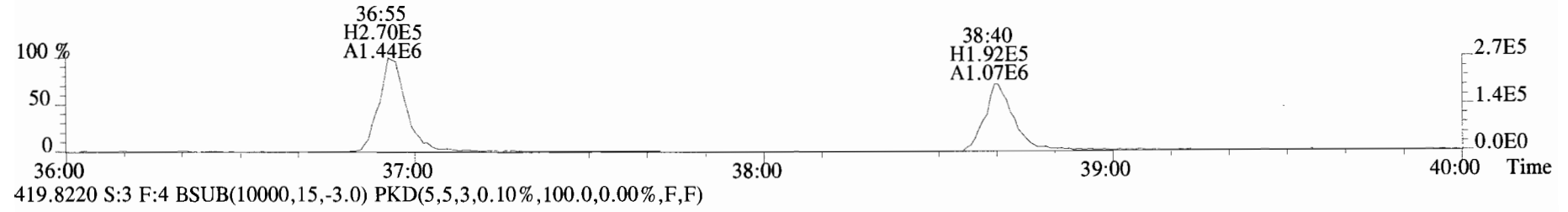
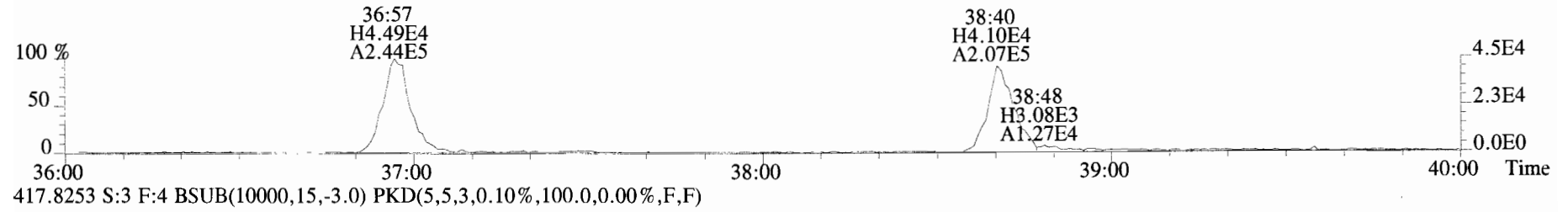
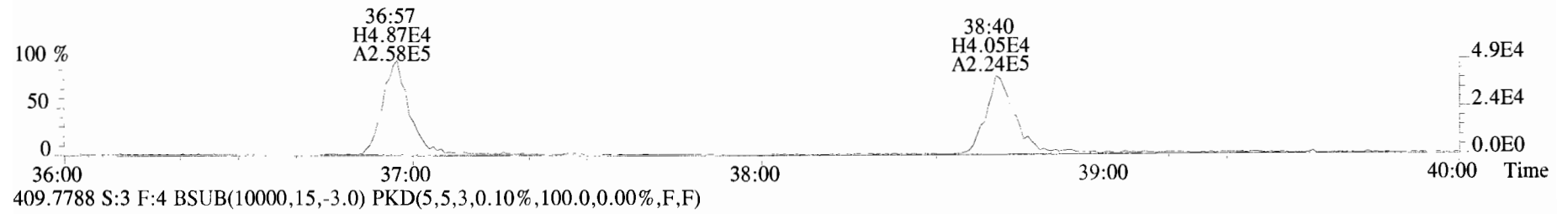
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
 373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)

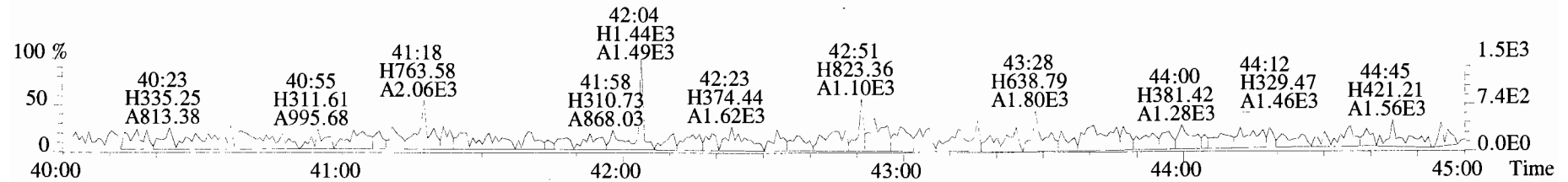
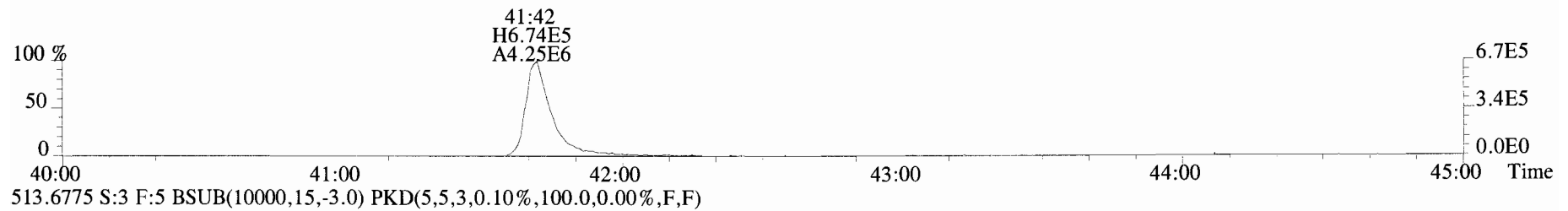
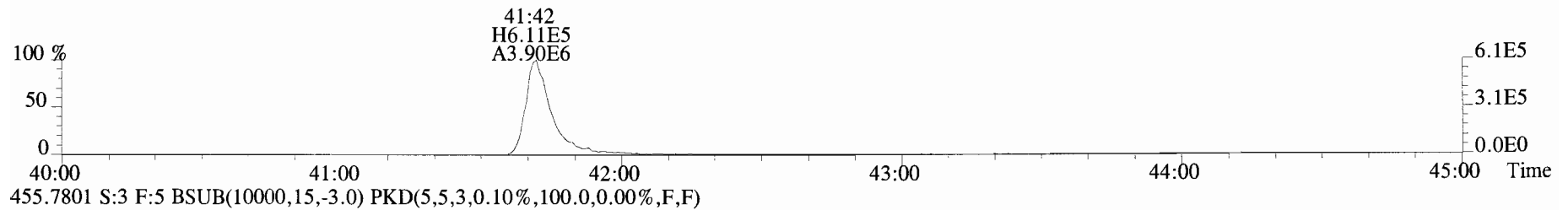
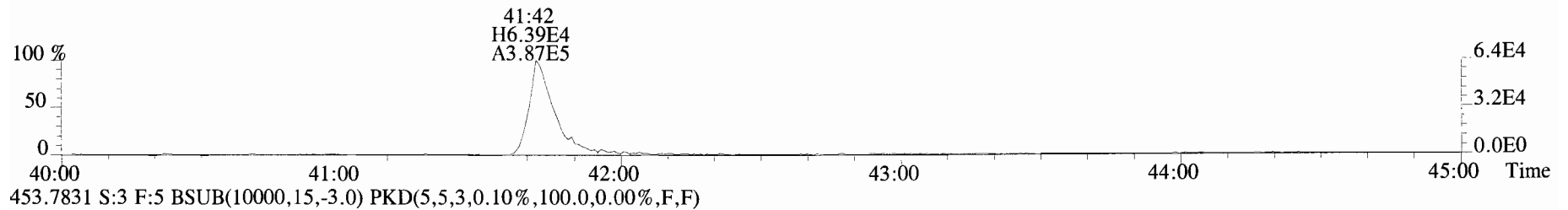
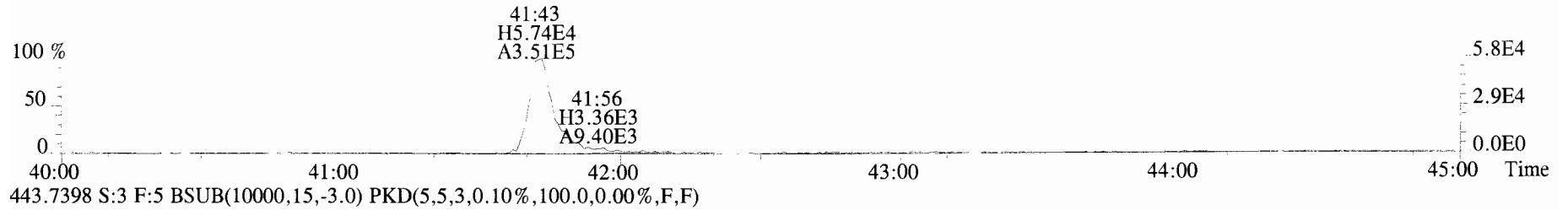


File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

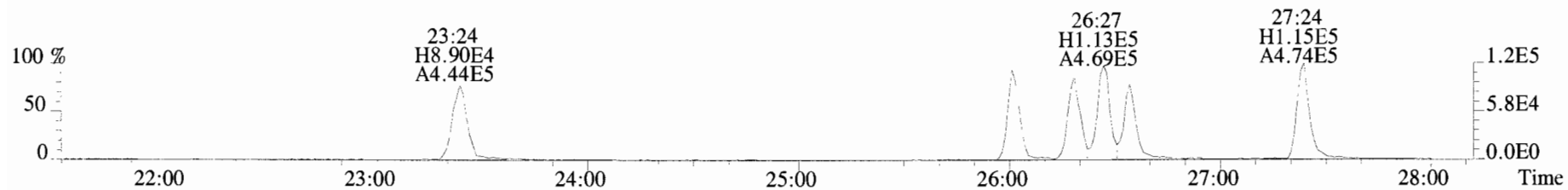




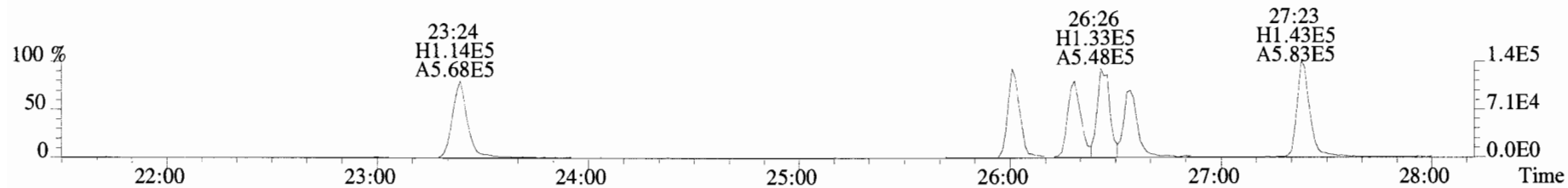
File:191009D1 #1-432 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD\_DB5  
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



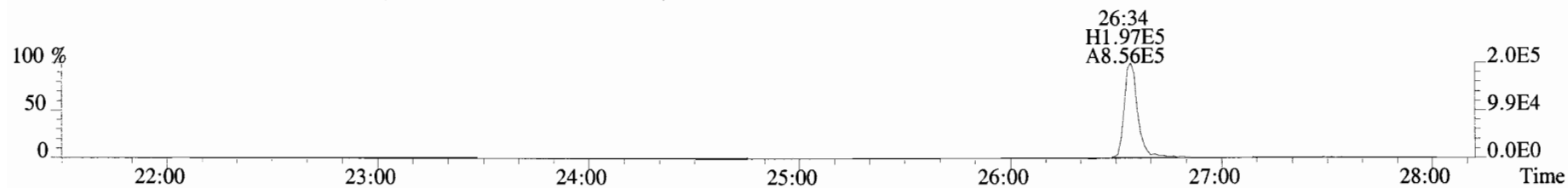
File:191009D1 #1-513 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



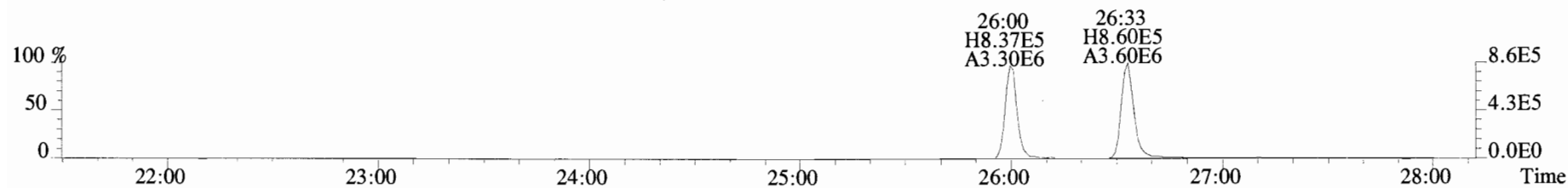
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



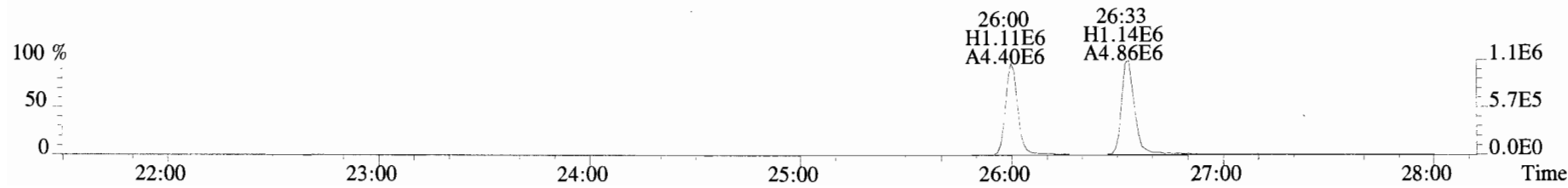
327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



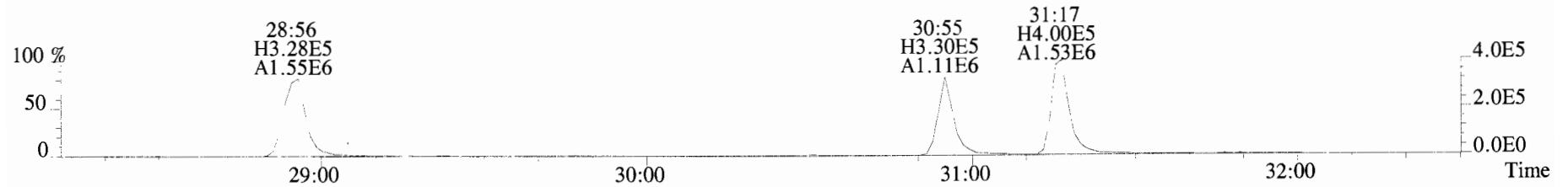
331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



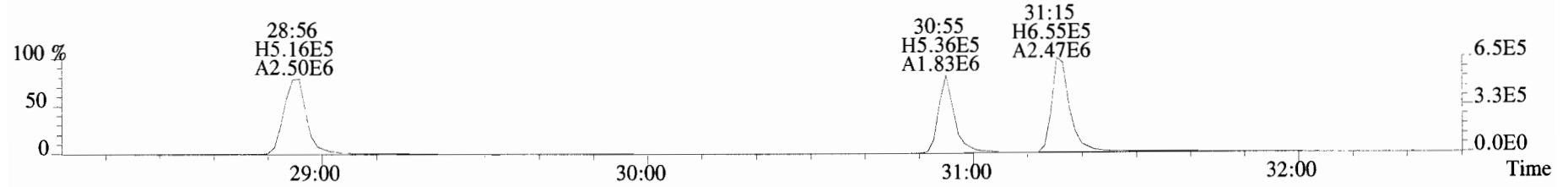
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



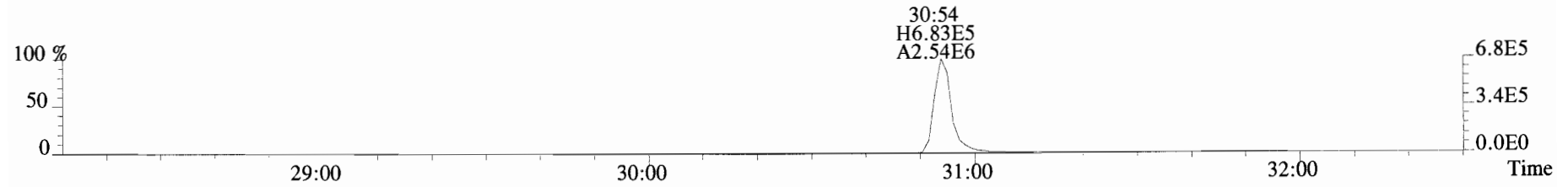
File:191009D1 #1-211 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical\_Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



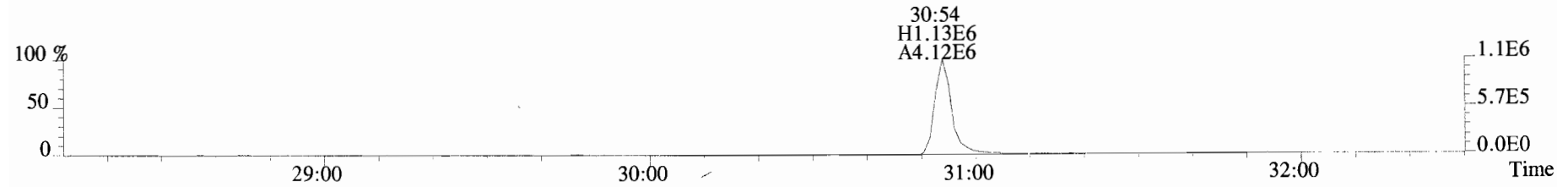
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



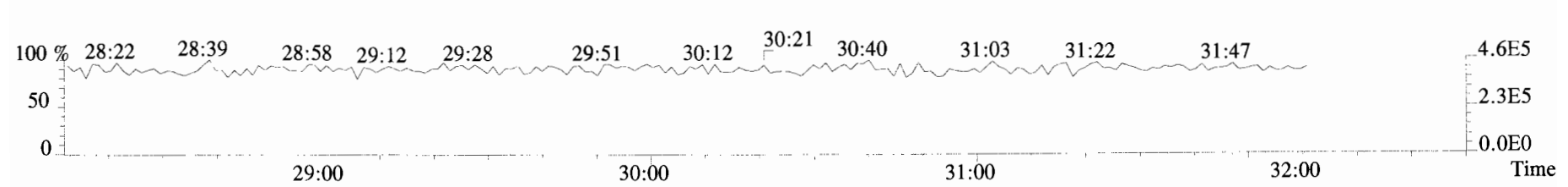
365.8978 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



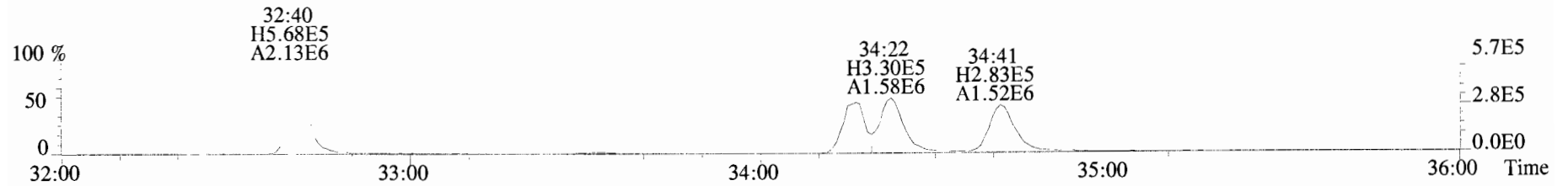
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



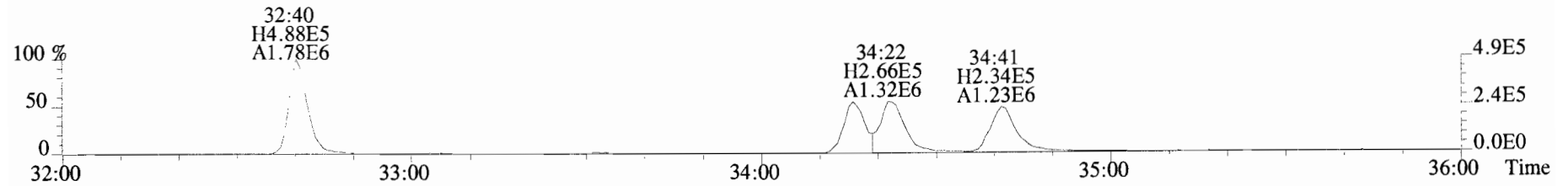
366.9792 S:4 F:2



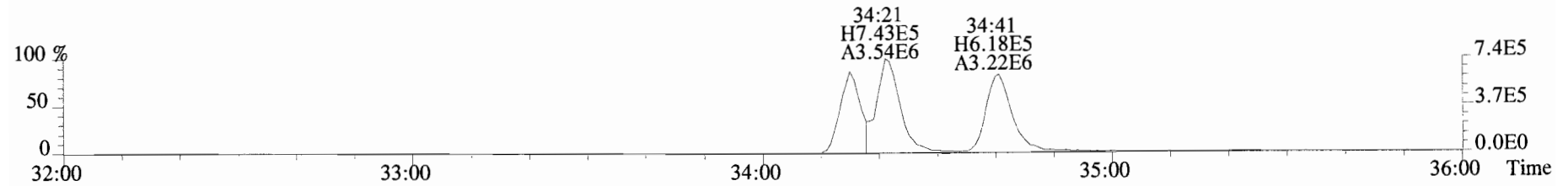
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



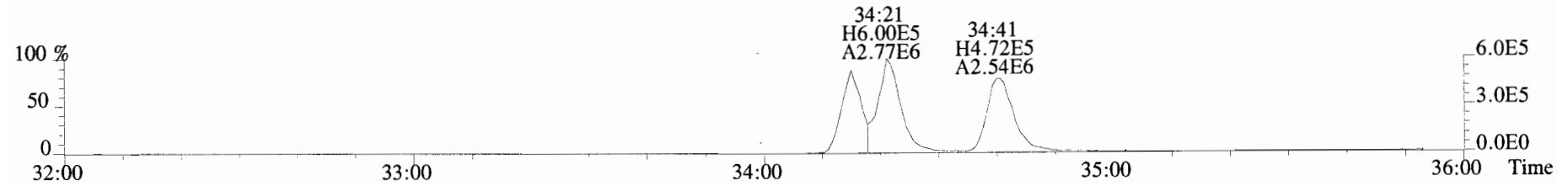
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



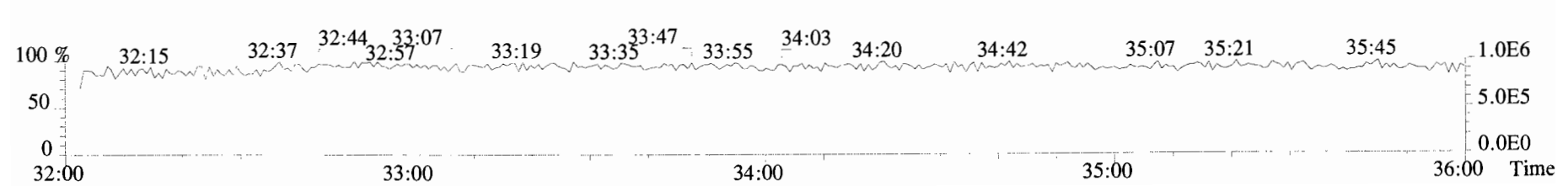
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



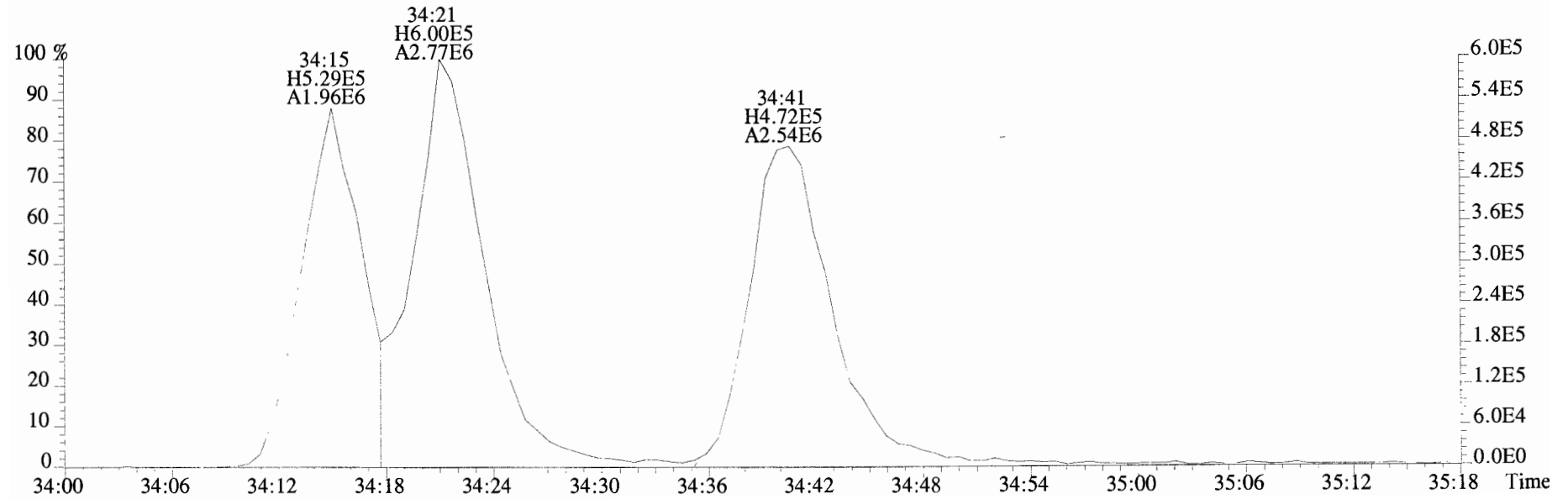
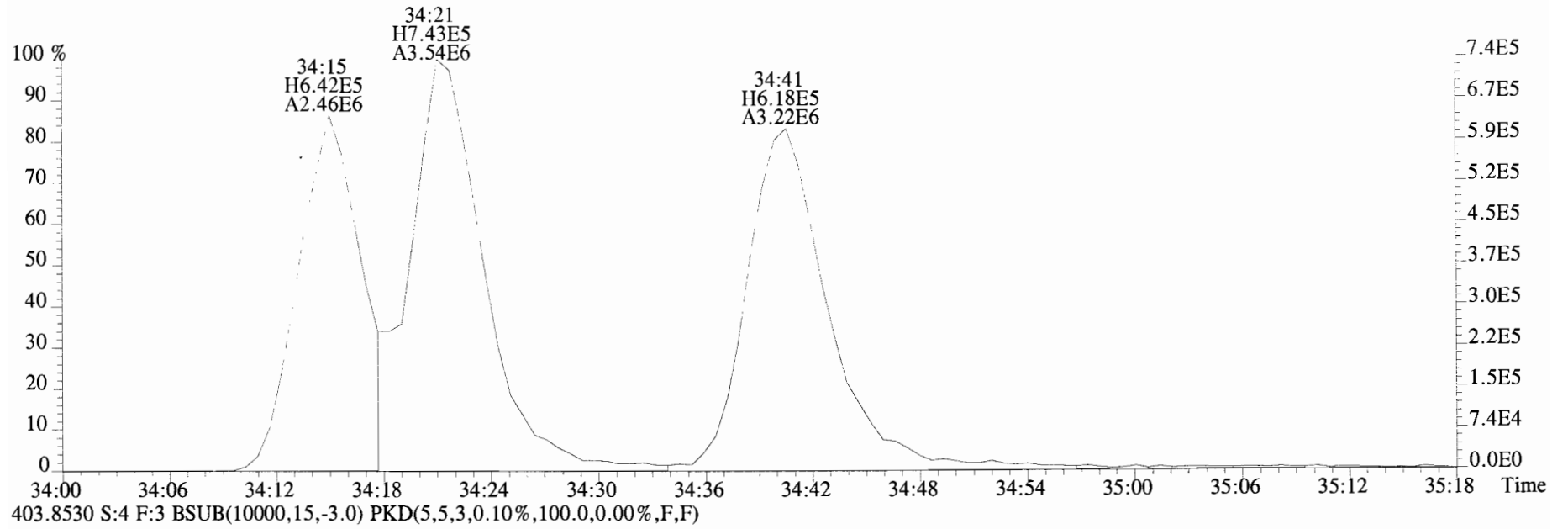
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



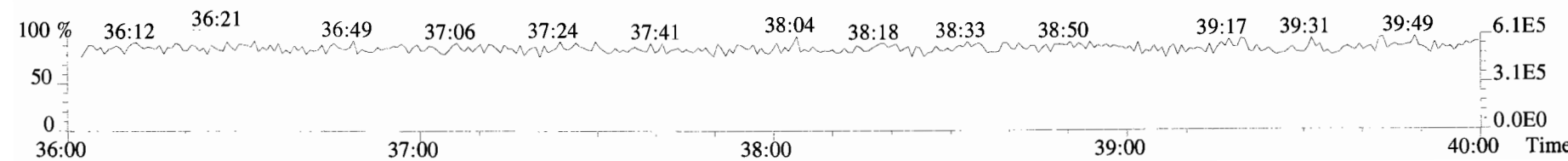
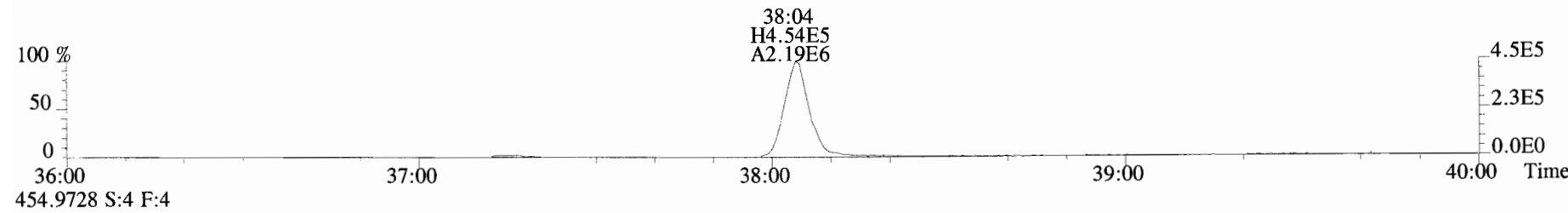
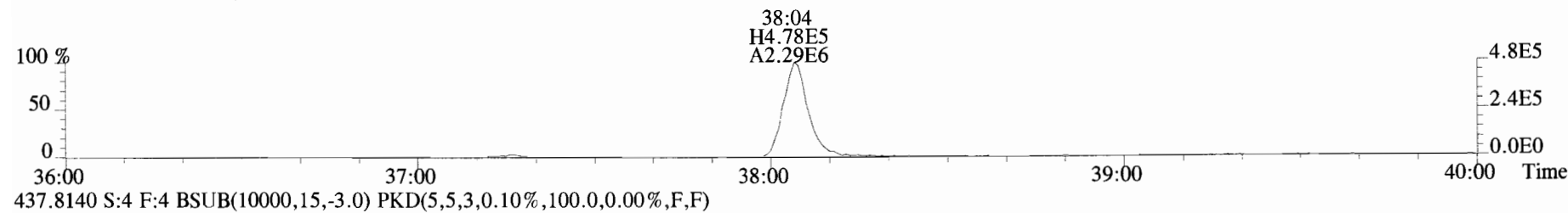
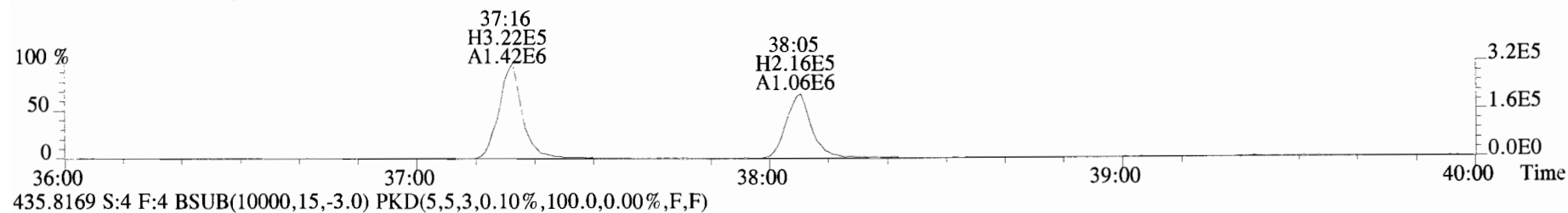
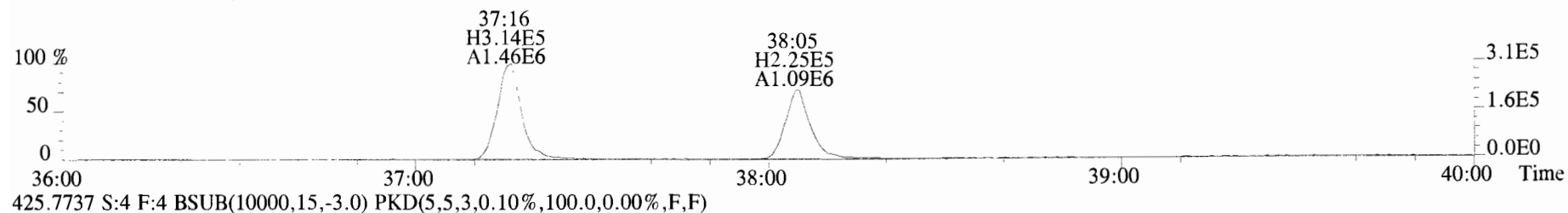
392.9760 S:4 F:3



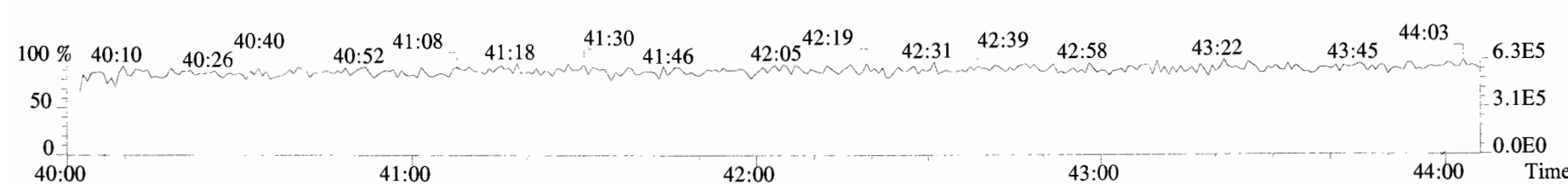
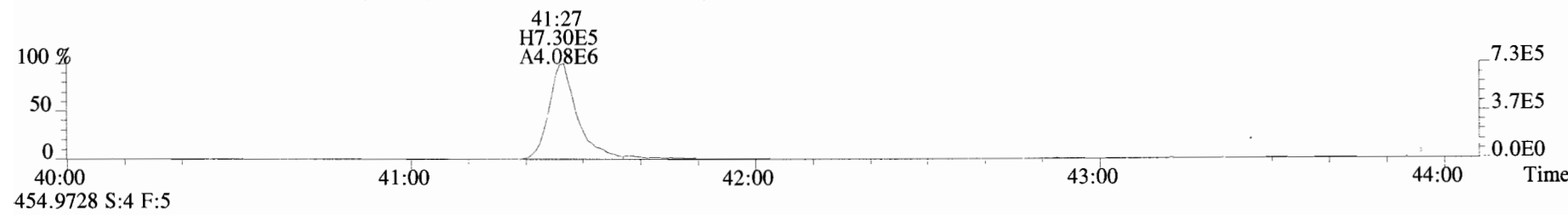
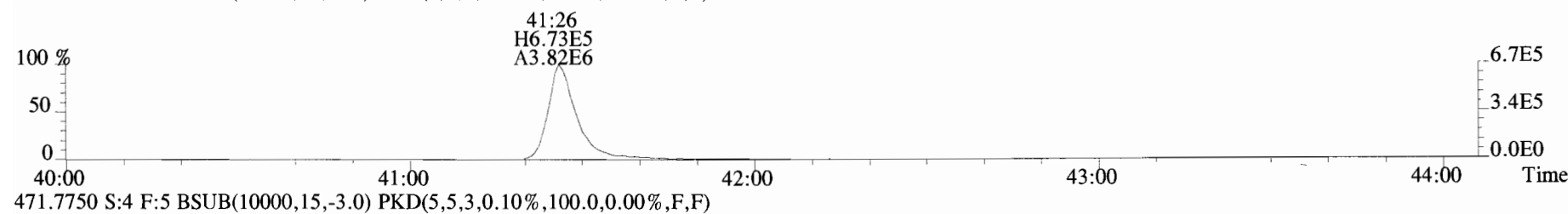
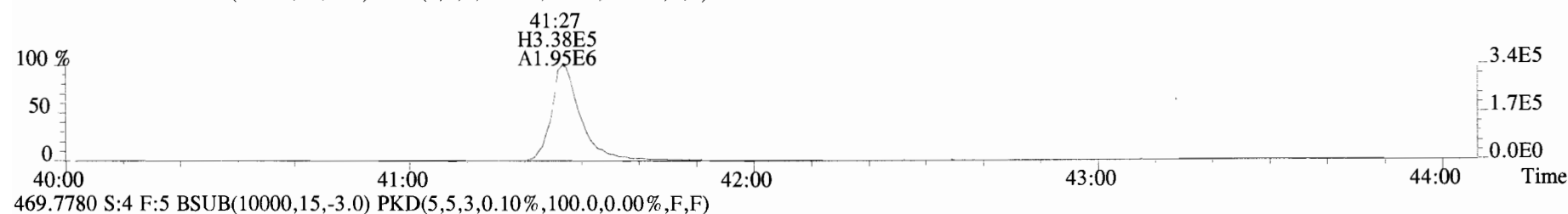
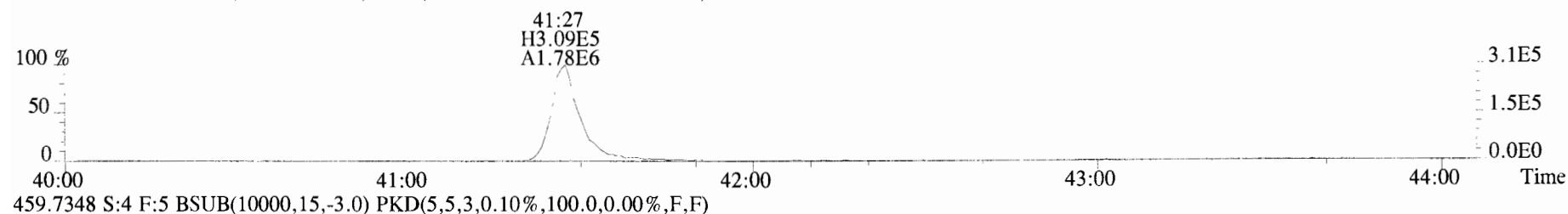
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



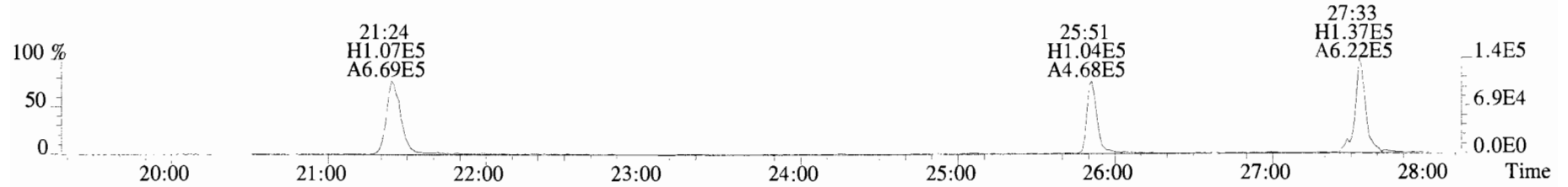
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



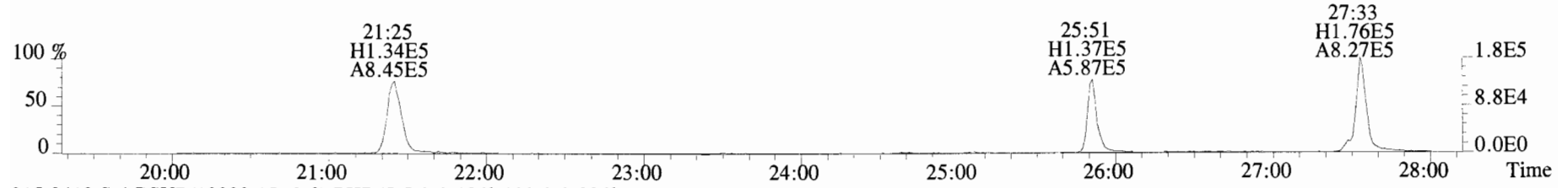
File:191009D1 #1-432 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



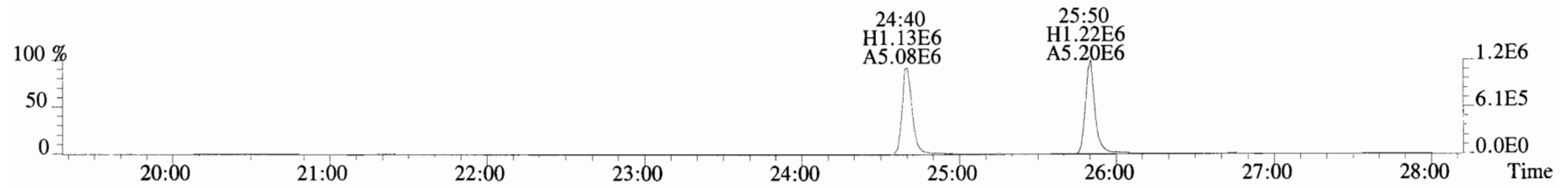
File:191009D1 #1-513 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
 303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



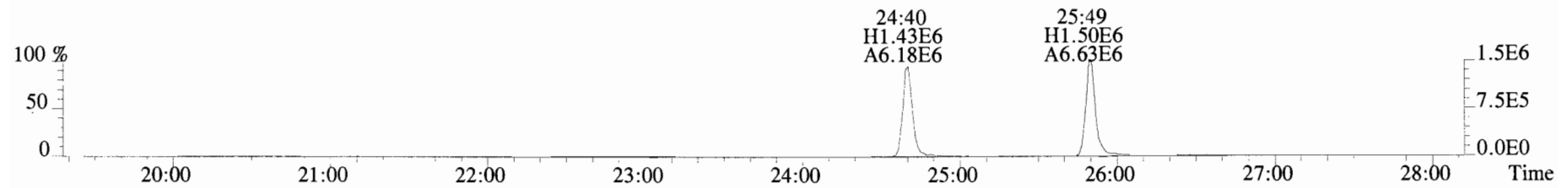
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



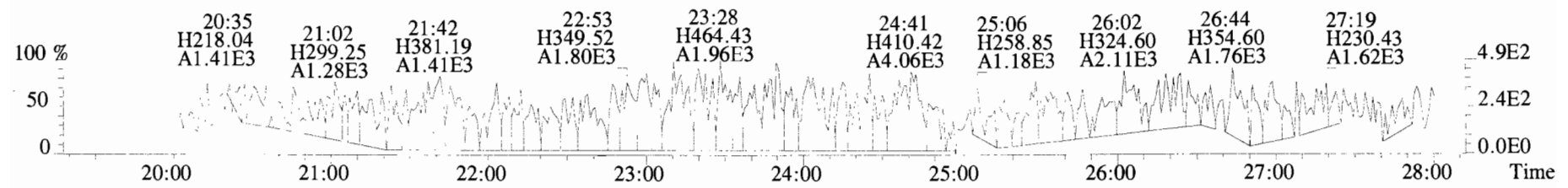
315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

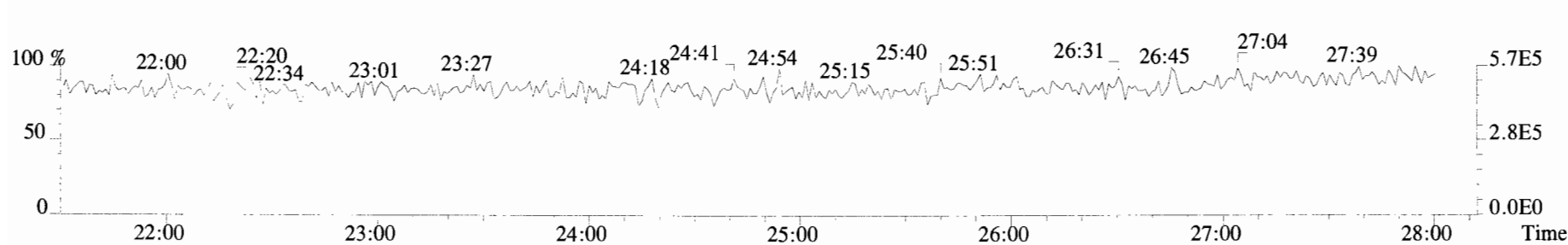
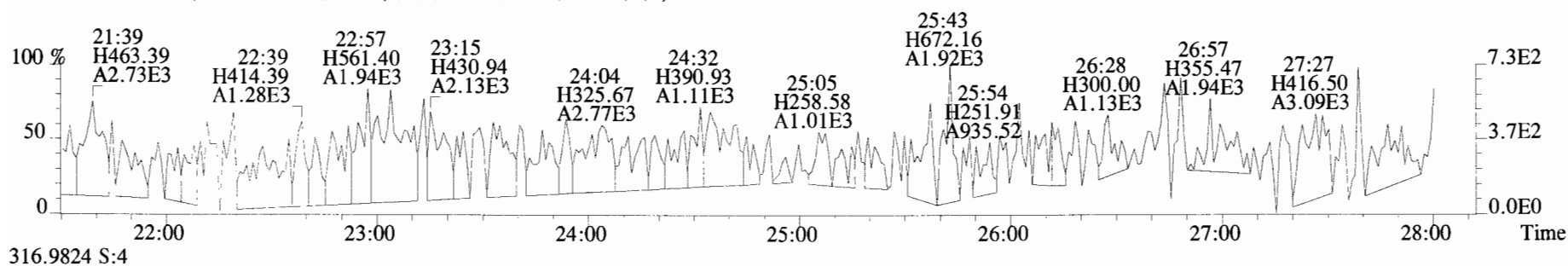
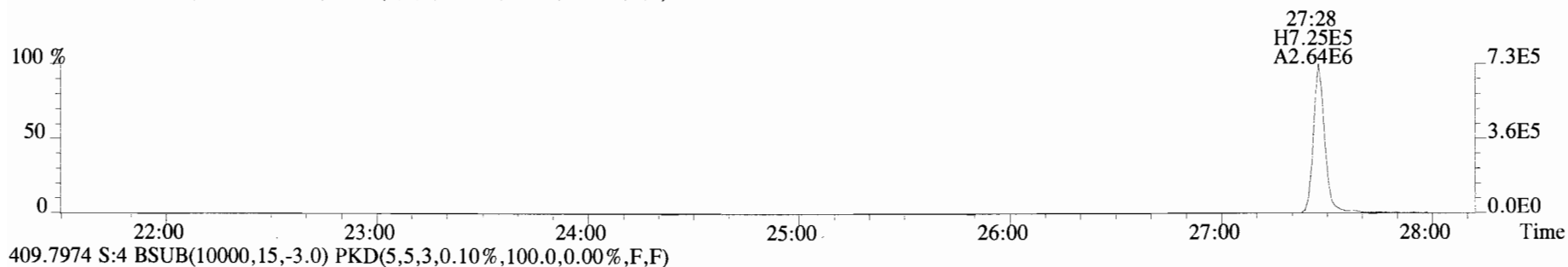
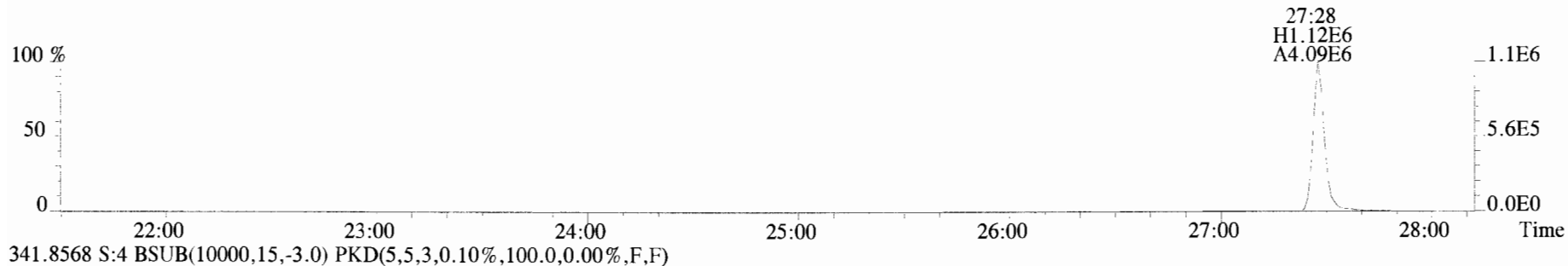


375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

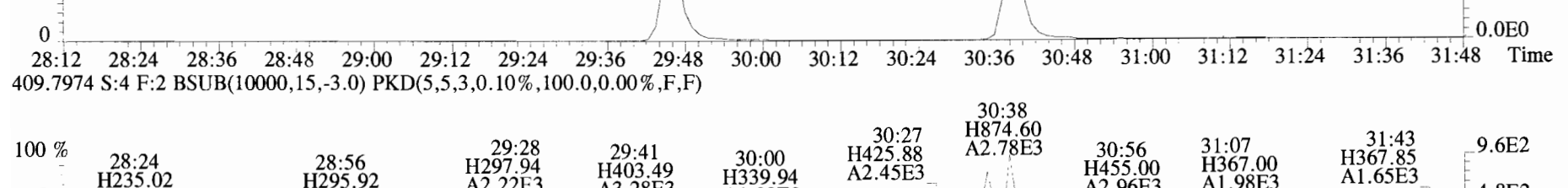
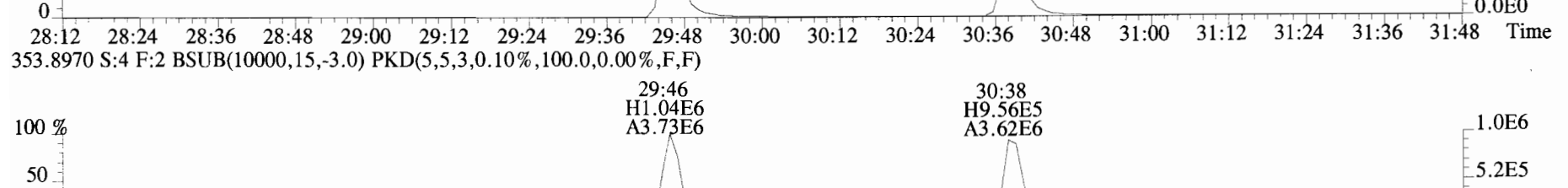
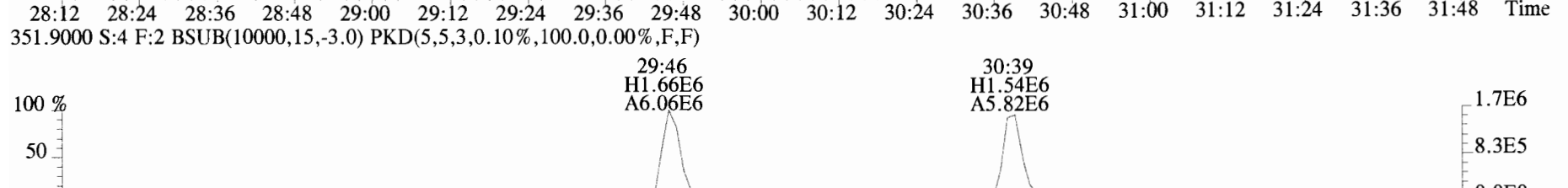
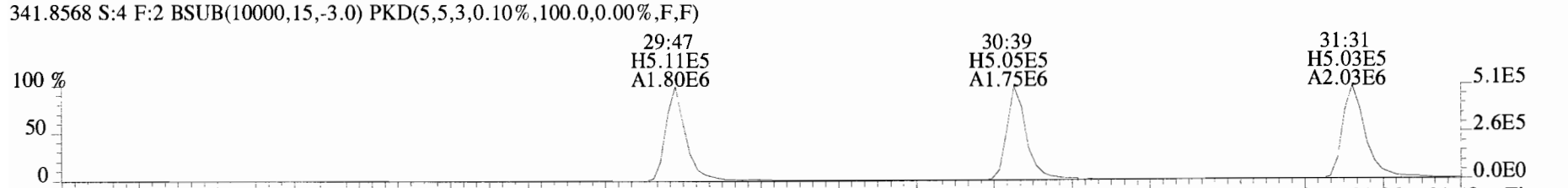
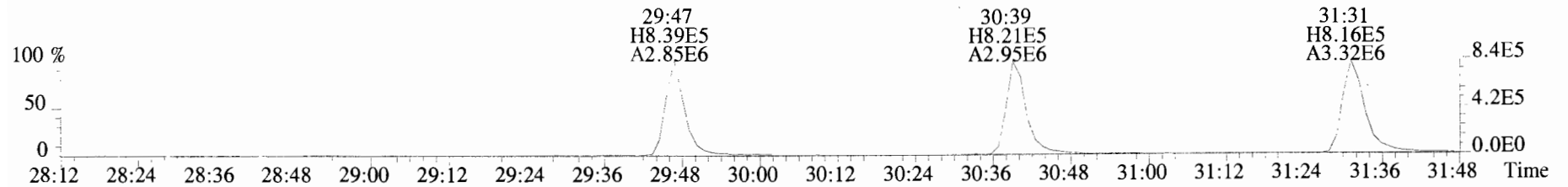




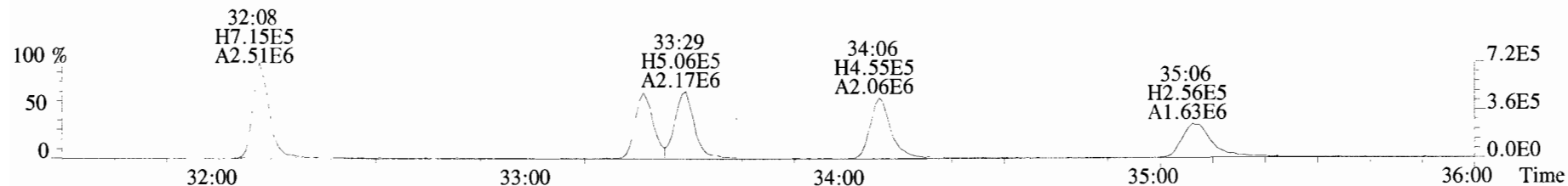
File:191009D1 #1-513 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



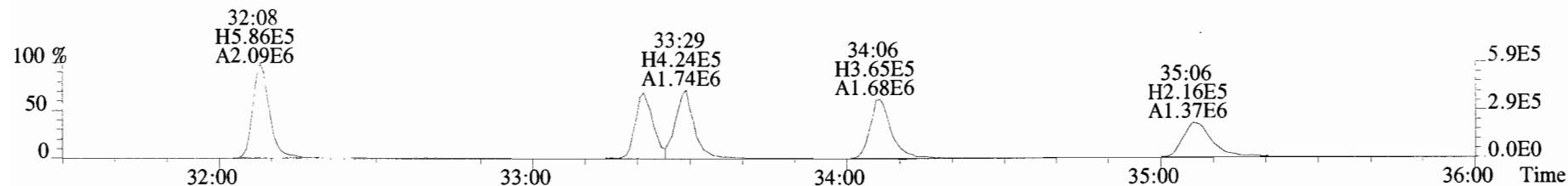
File:191009D1 #1-211 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



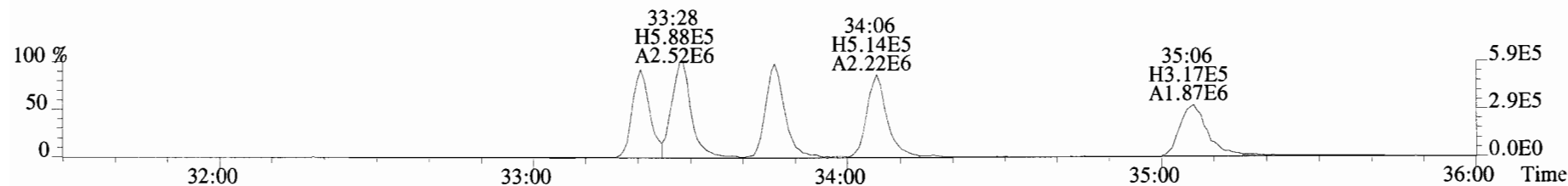
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
 373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



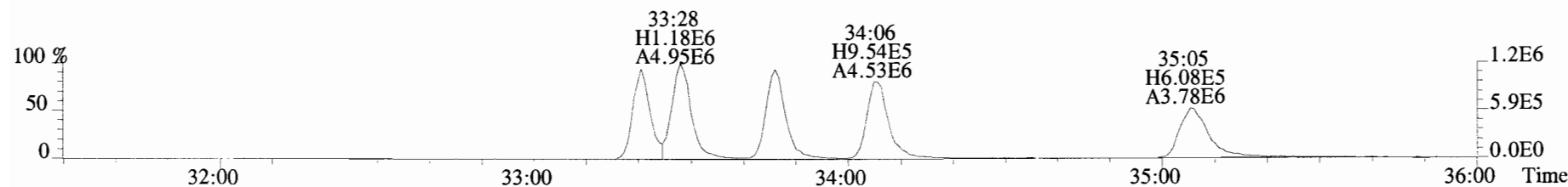
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



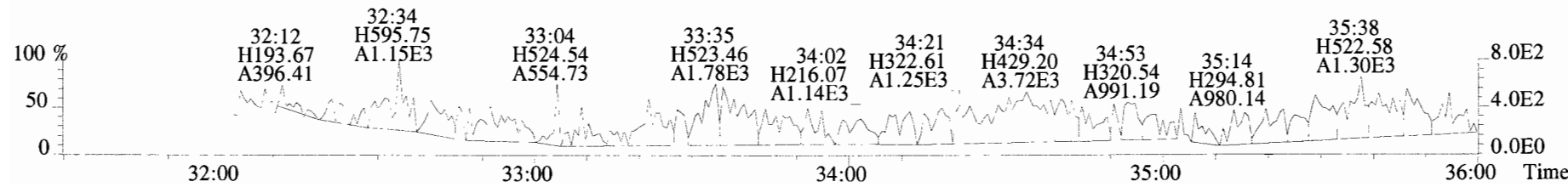
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



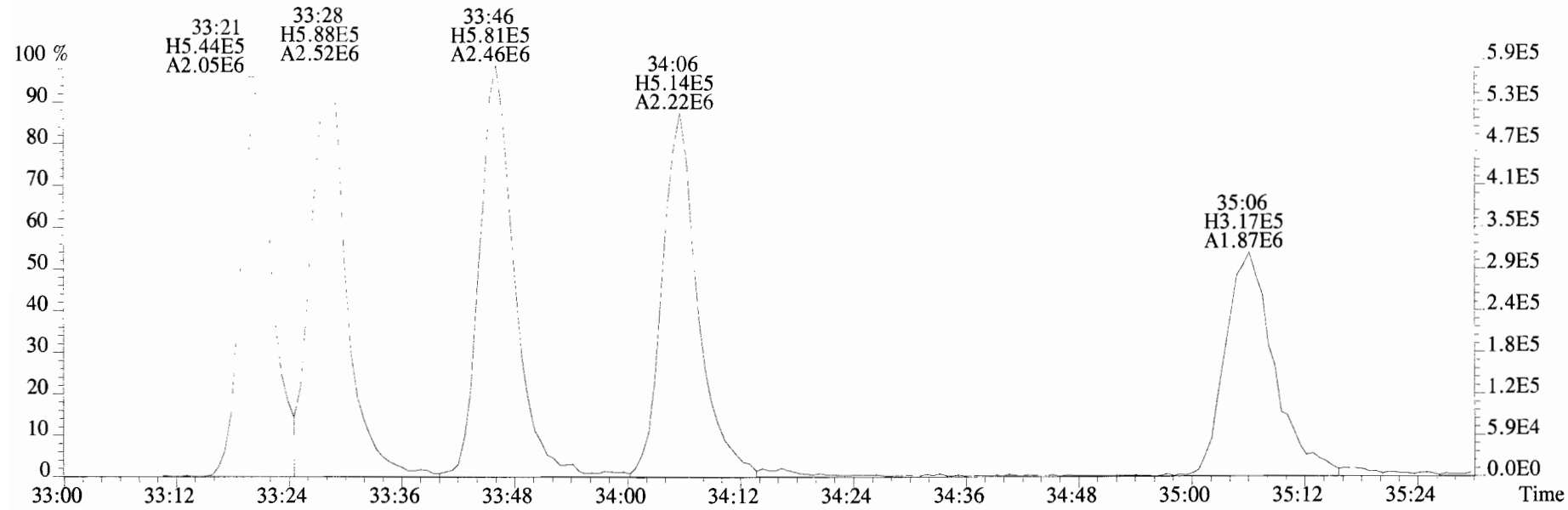
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



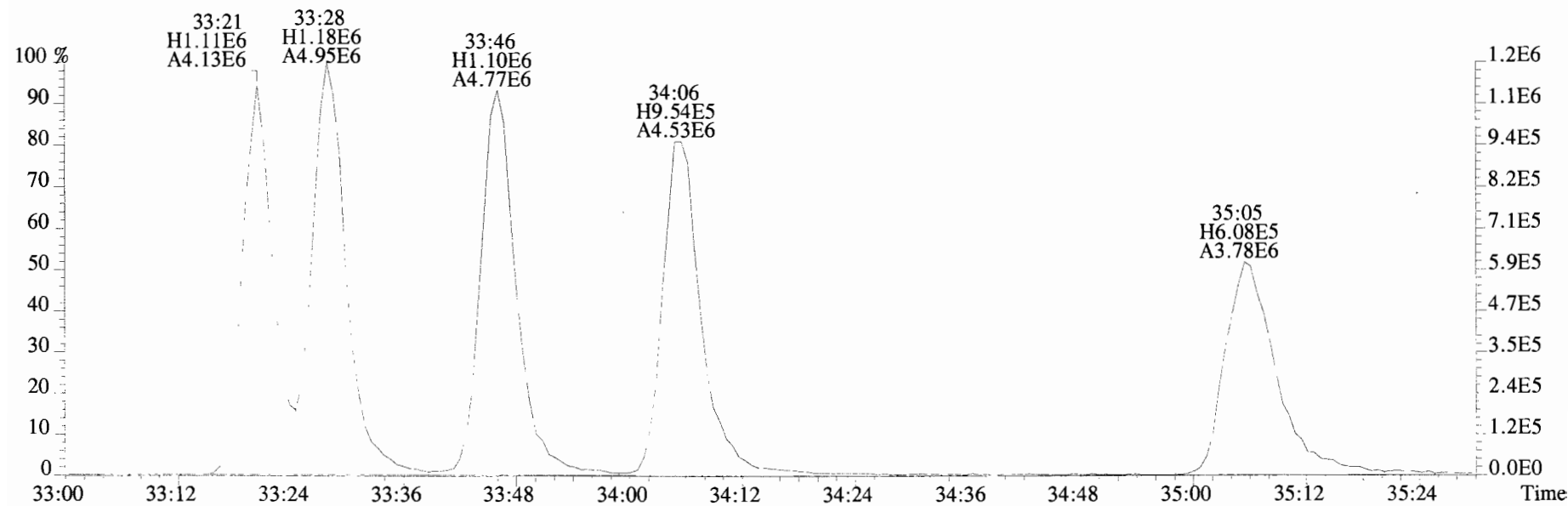
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



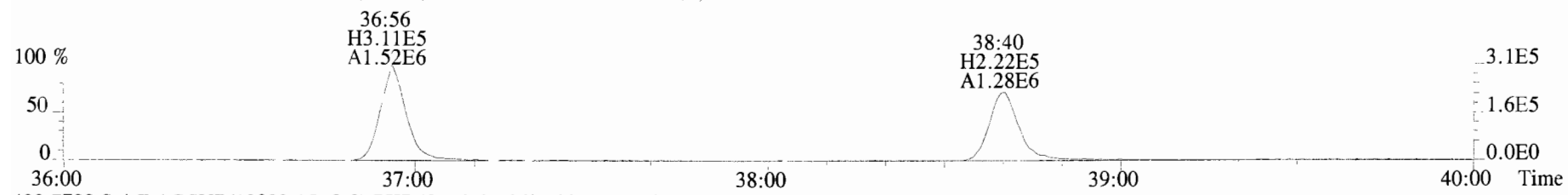
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



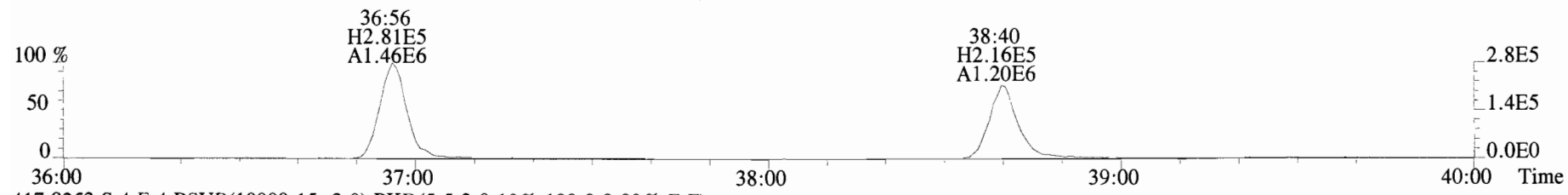
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



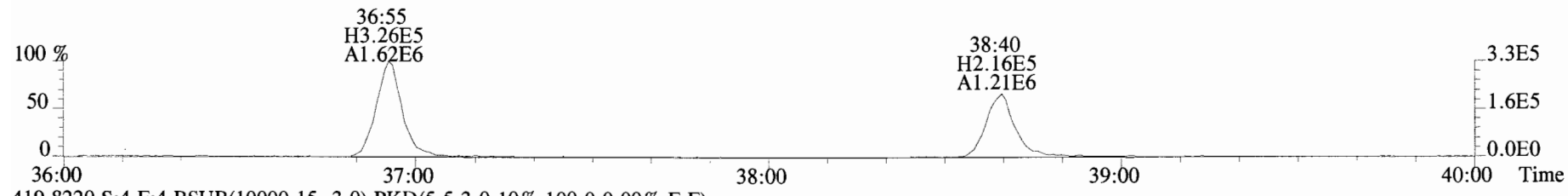
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
 407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



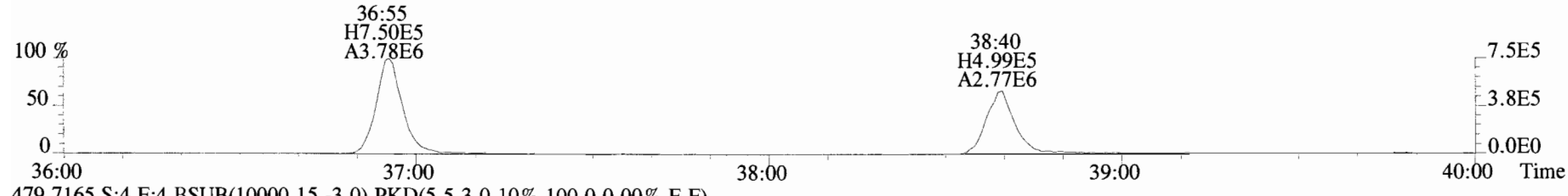
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



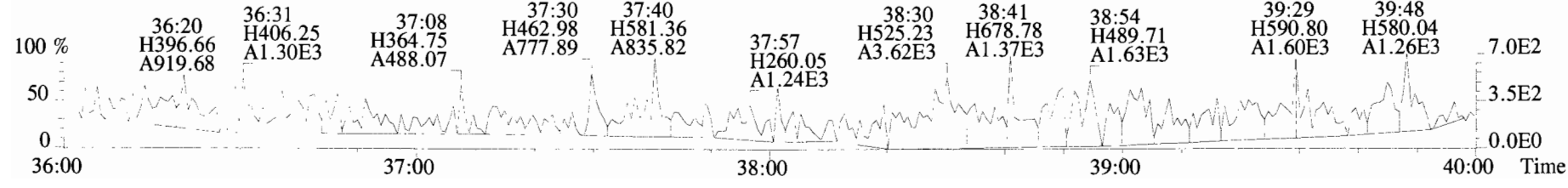
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



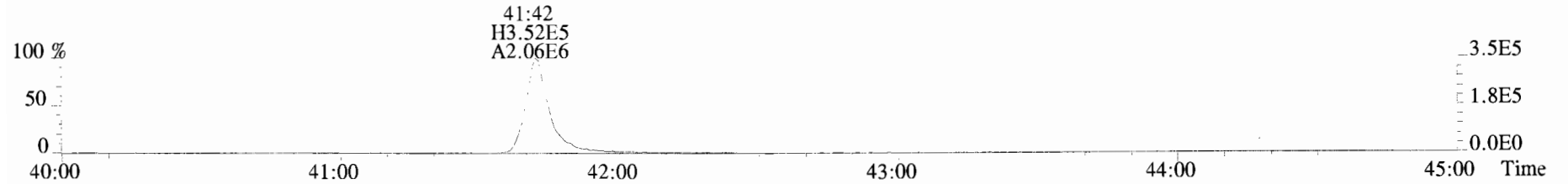
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



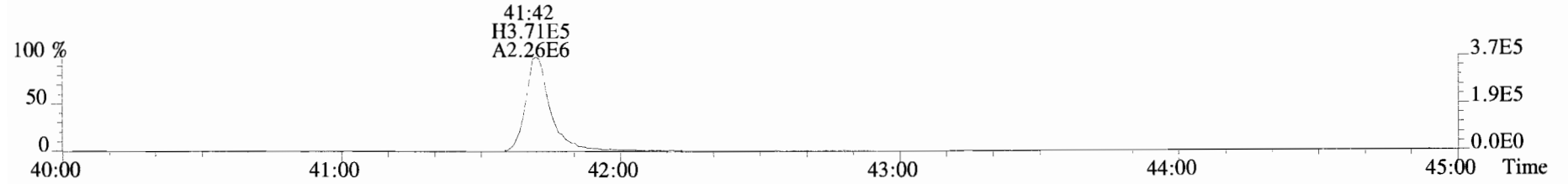
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



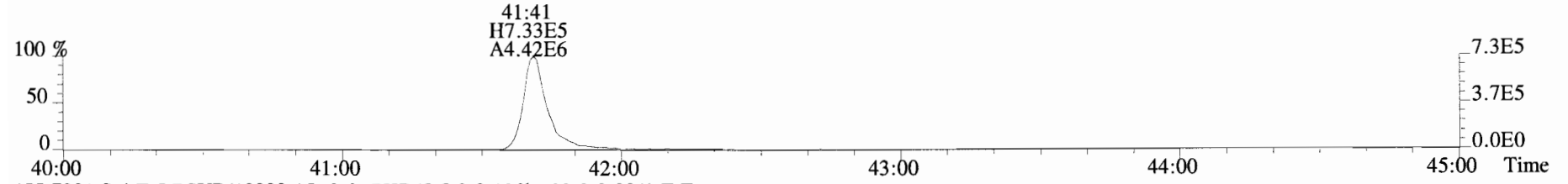
File:191009D1 #1-432 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical\_Laboratory\_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD\_DB5  
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



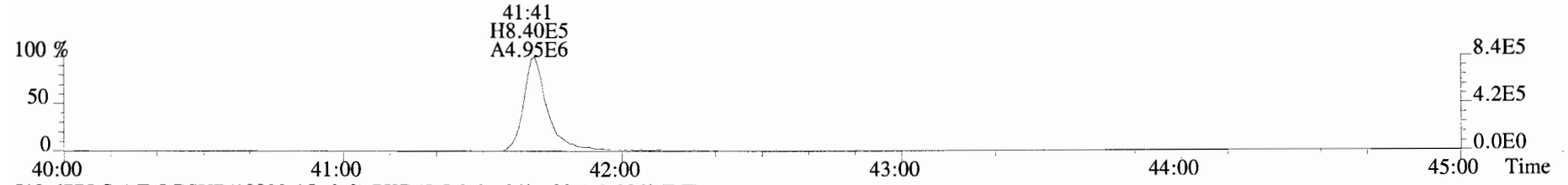
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



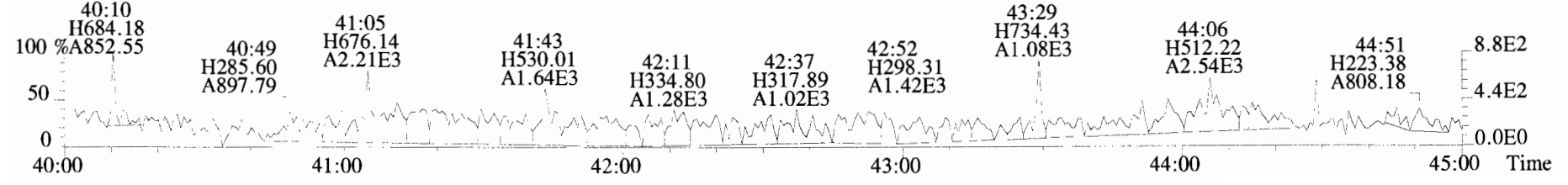
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



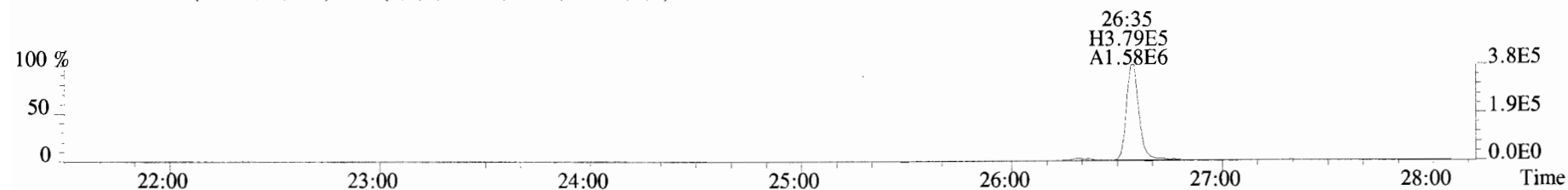
455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



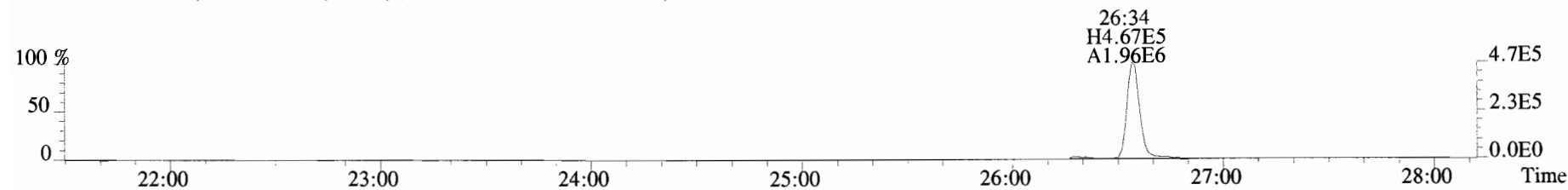
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



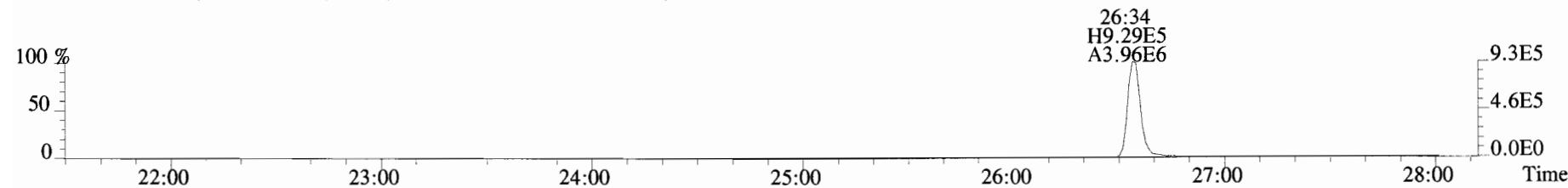
File:191009D1 #1-514 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



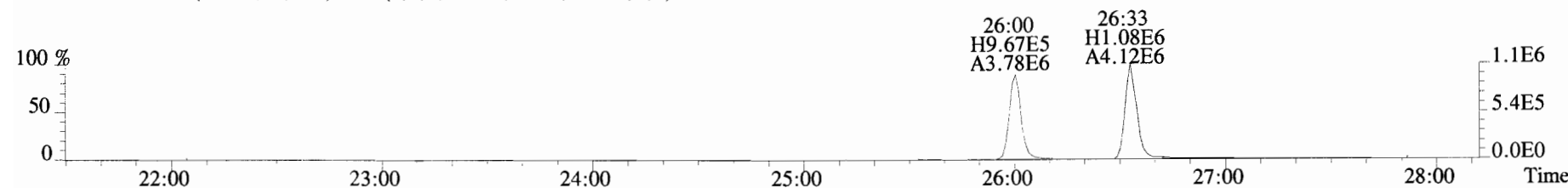
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



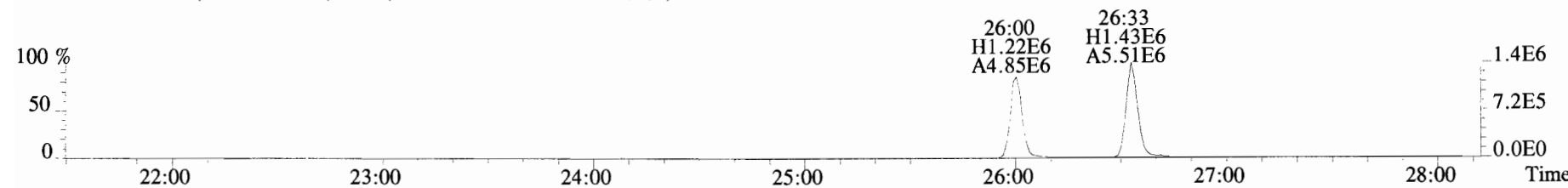
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



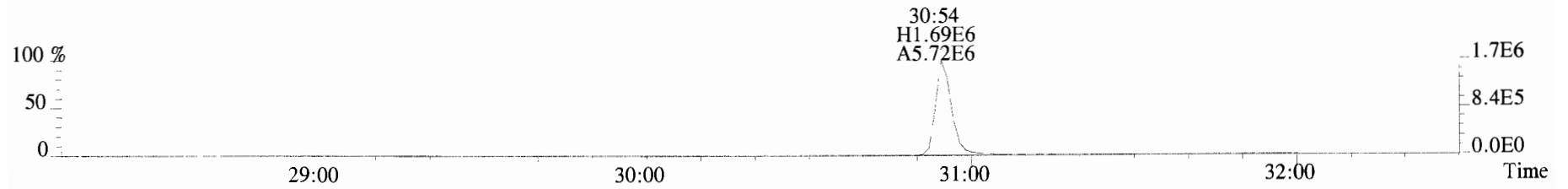
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



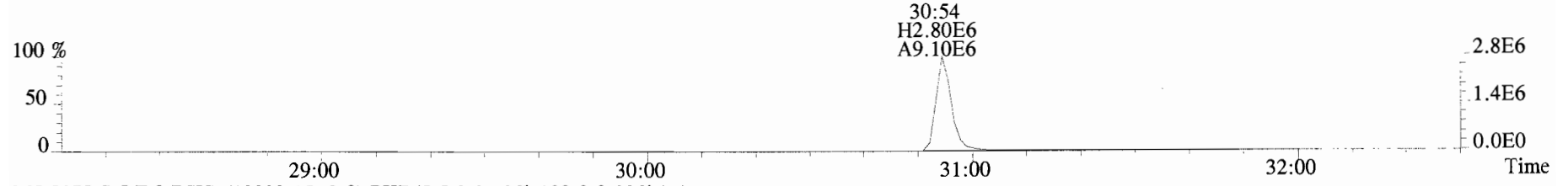
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



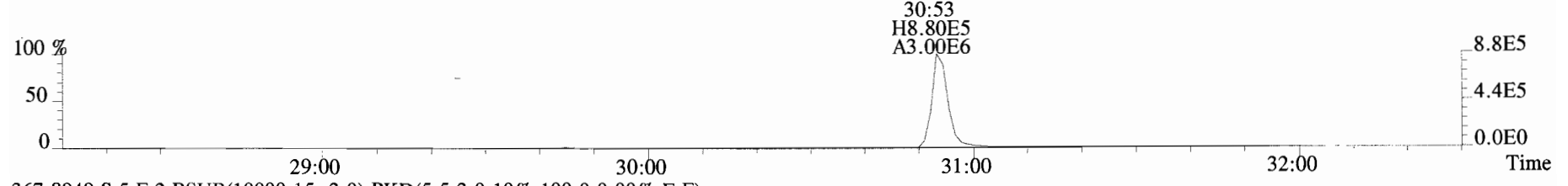
File:191009D1 #1-210 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



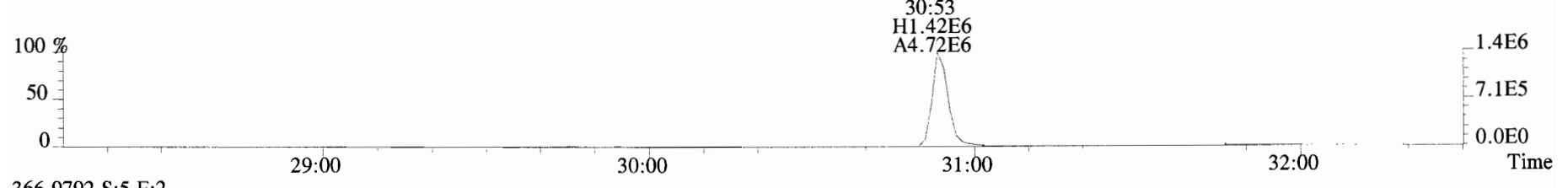
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



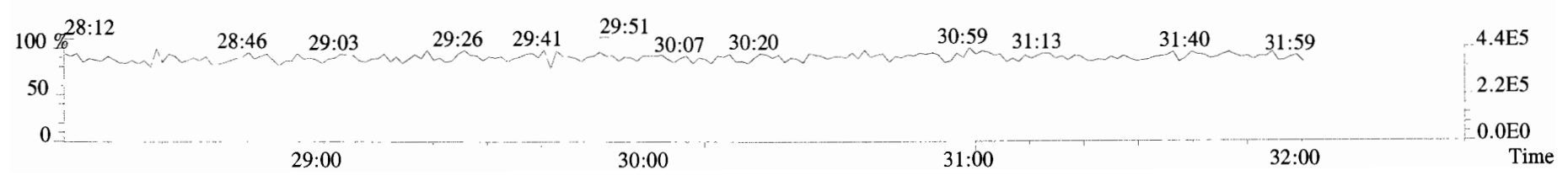
365.8978 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

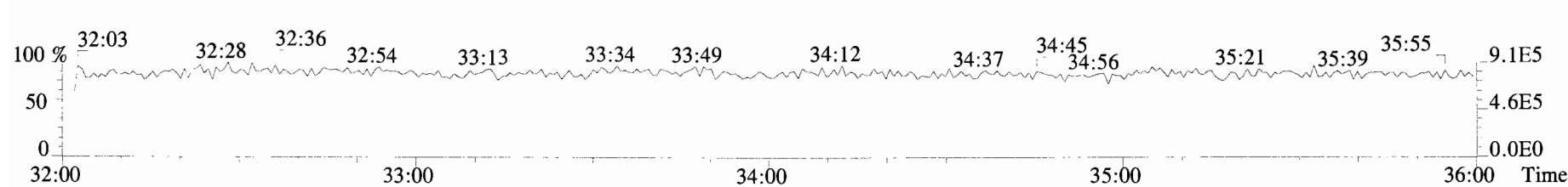
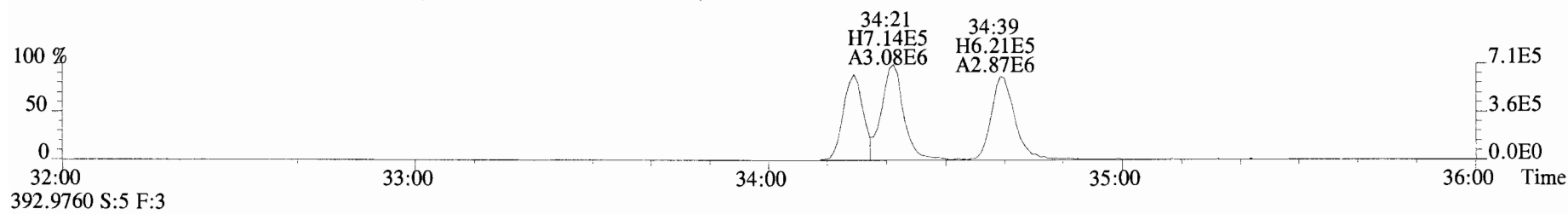
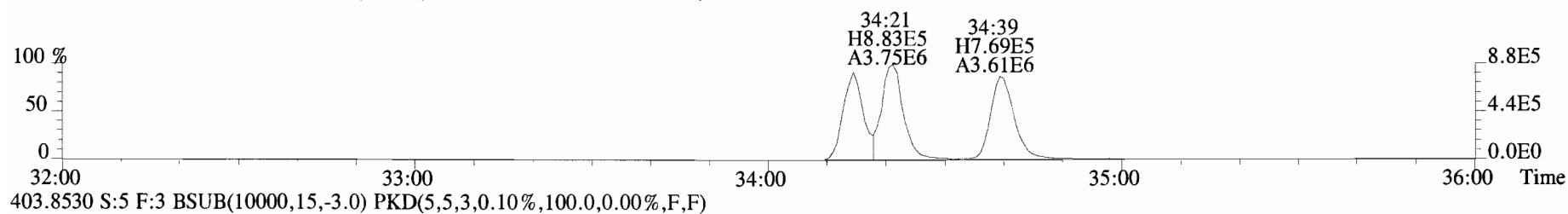
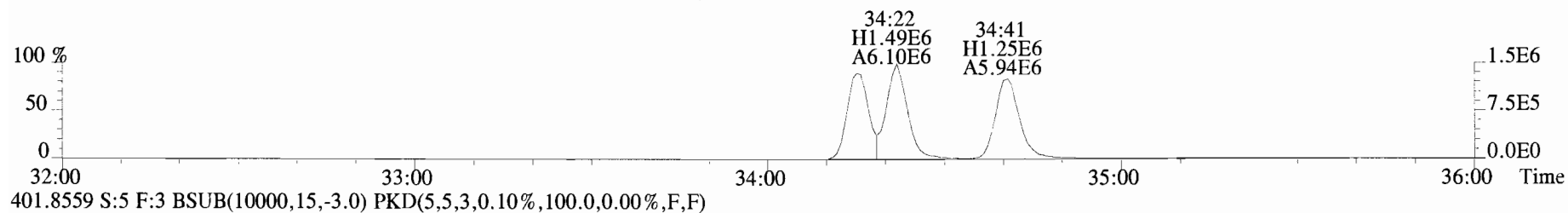
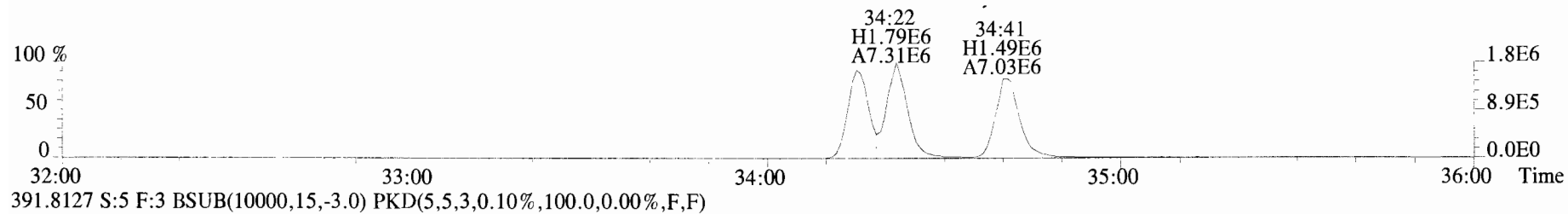


366.9792 S:5 F:2

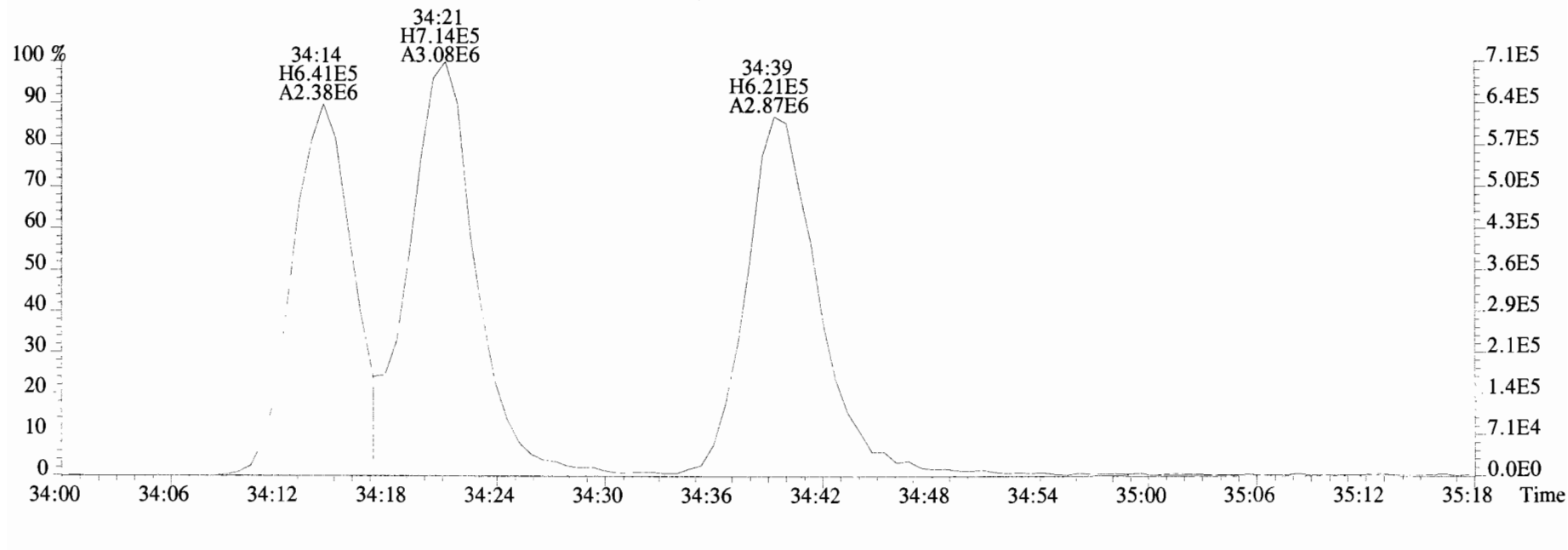
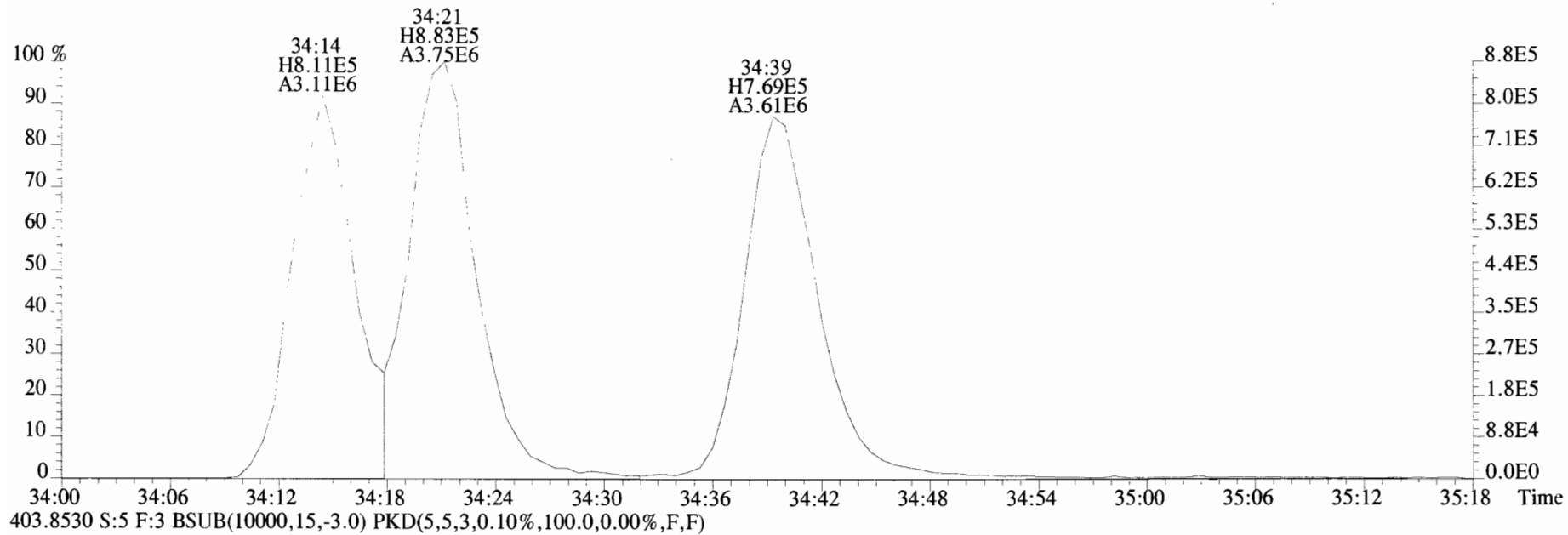




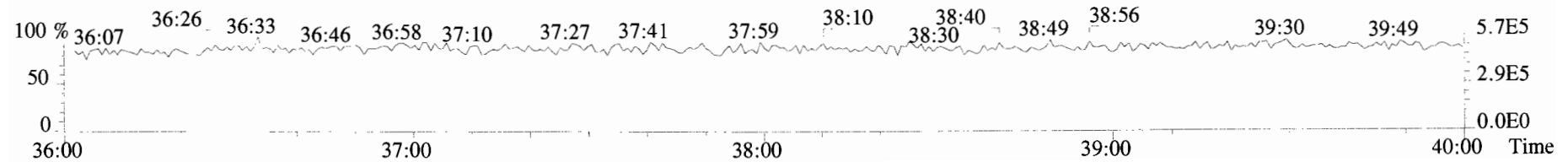
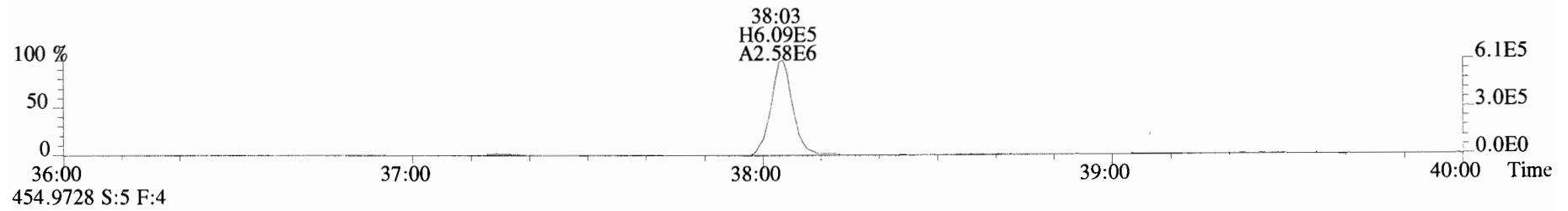
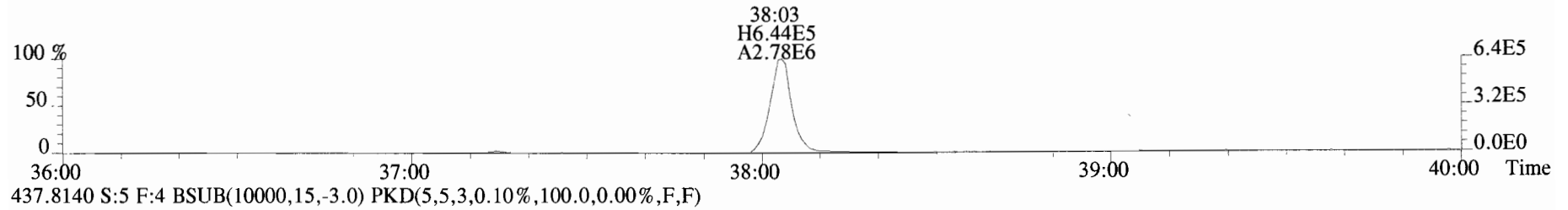
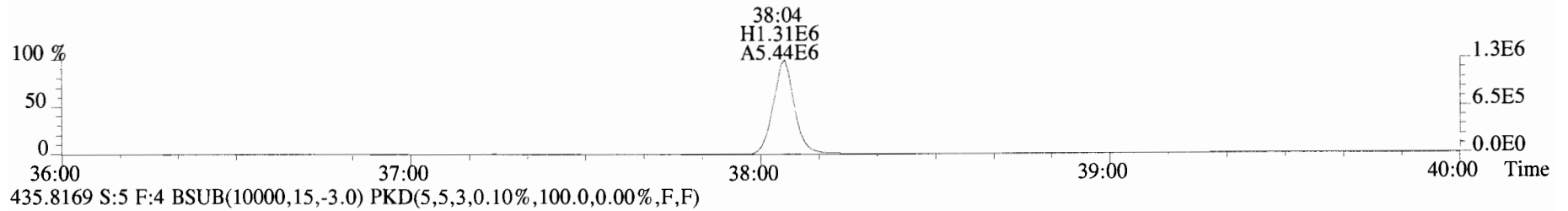
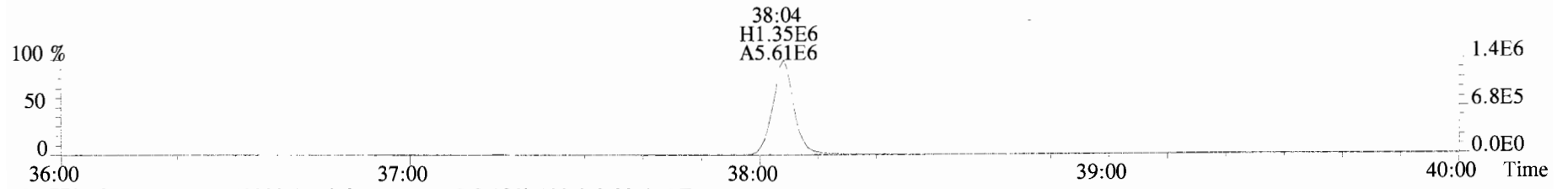
File:191009D1 #1-355 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



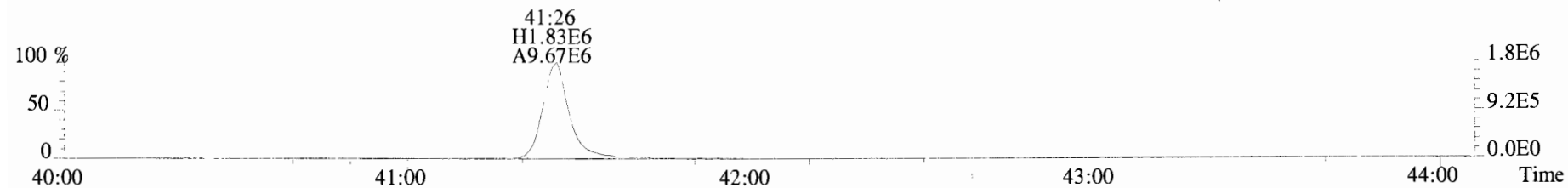
File:191009D1 #1-355 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



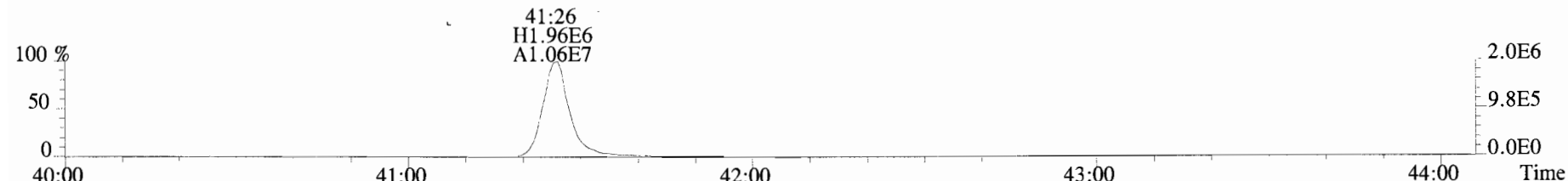
File:191009D1 #1-356 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



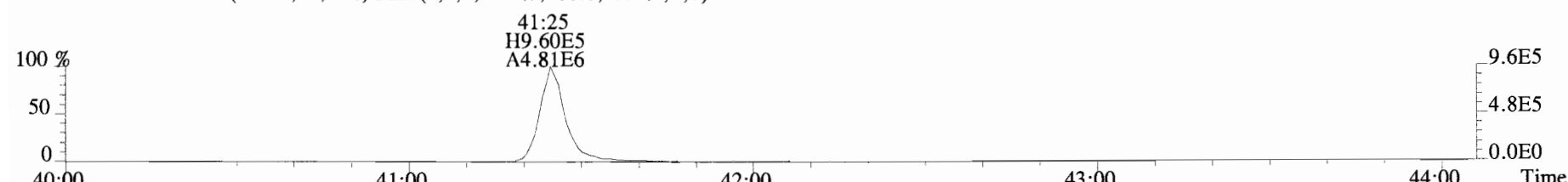
File:191009D1 #1-431 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



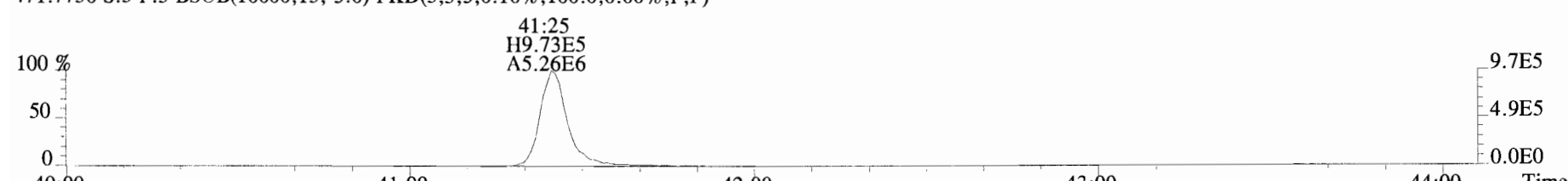
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



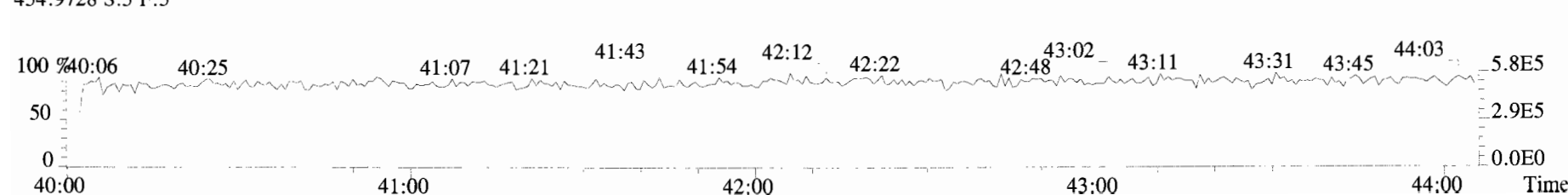
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



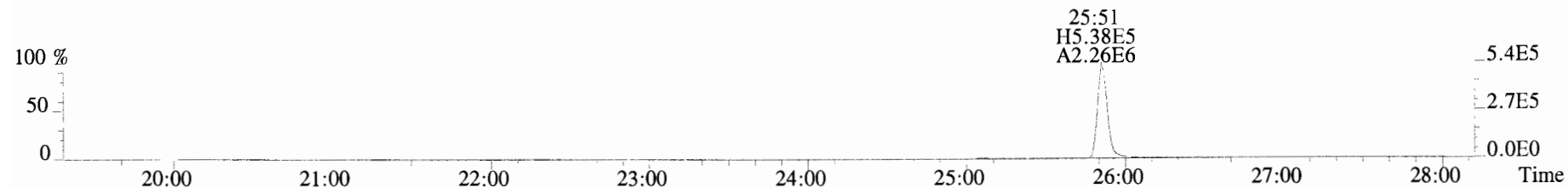
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



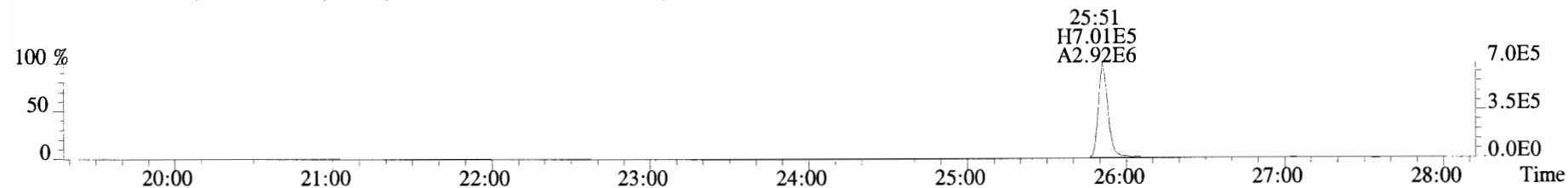
454.9728 S:5 F:5



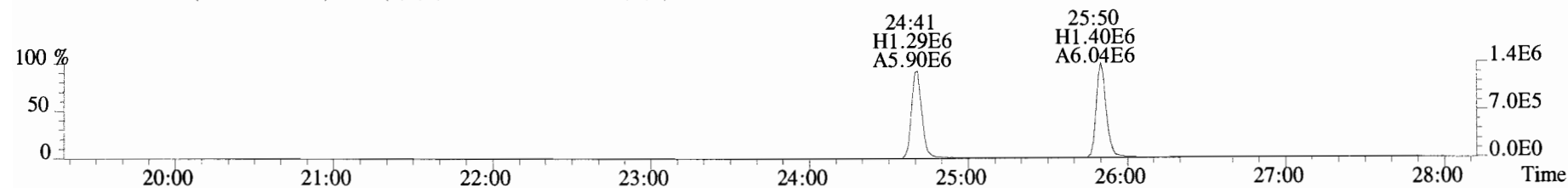
File:191009D1 #1-514 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



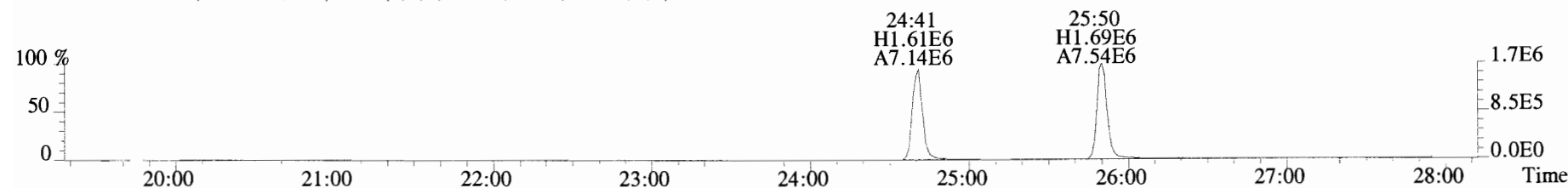
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



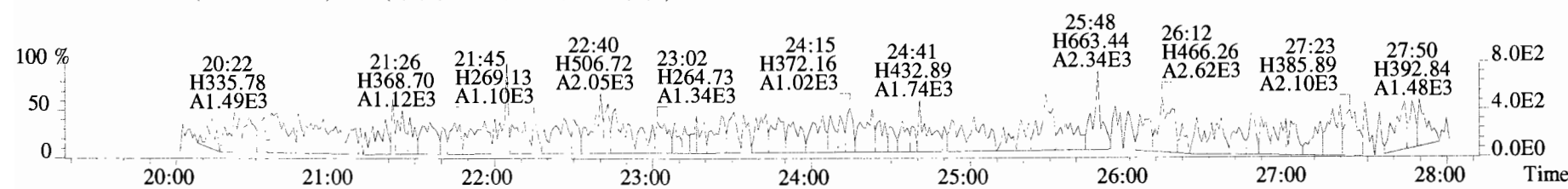
315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



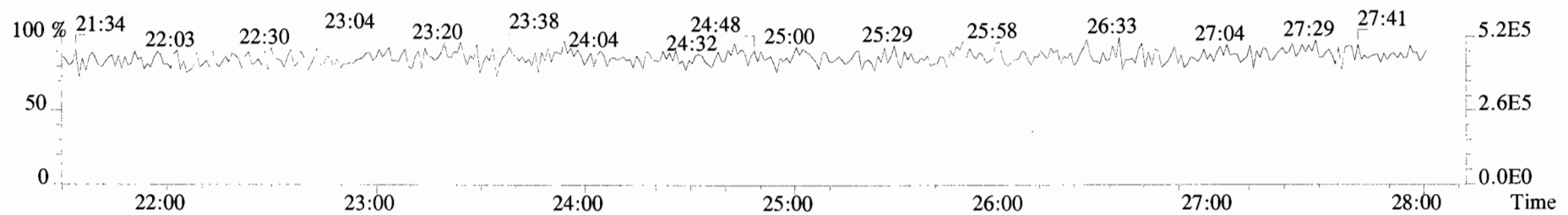
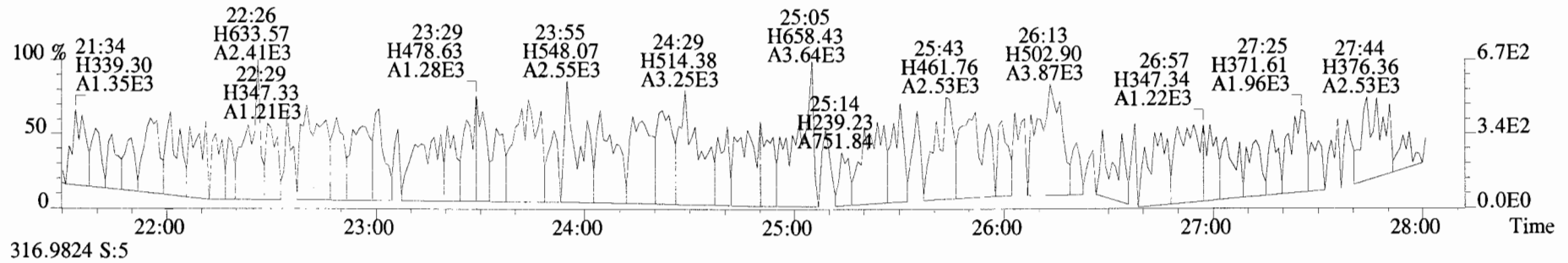
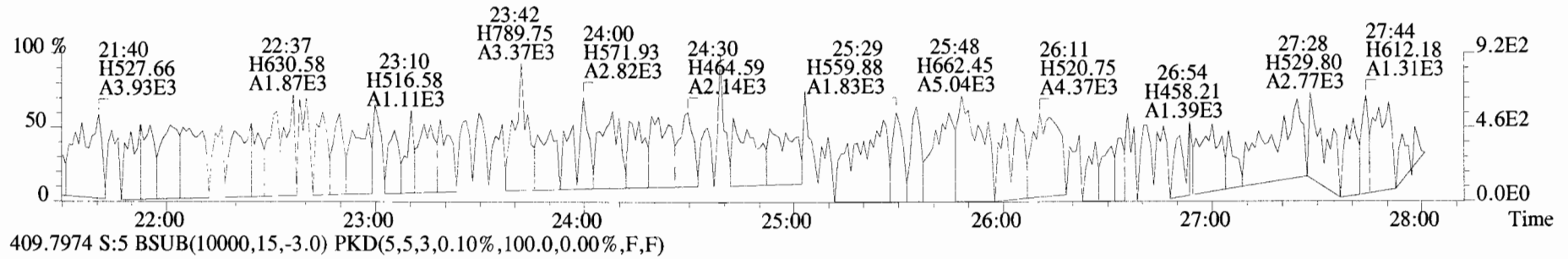
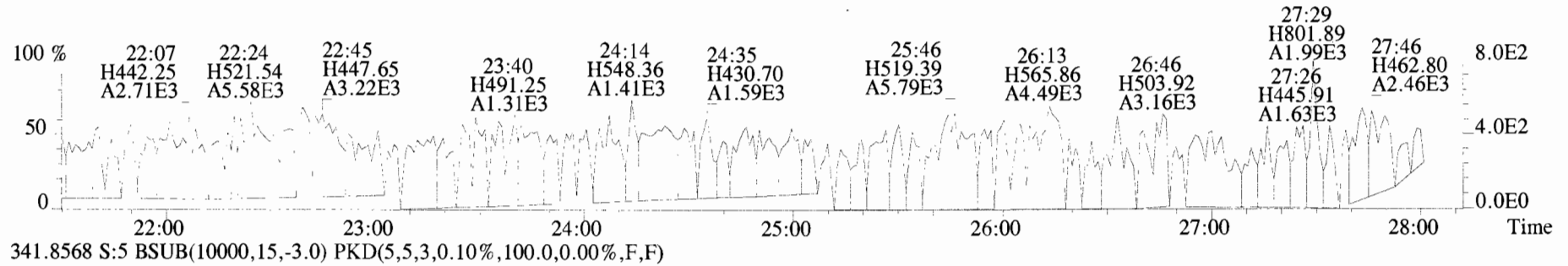
317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



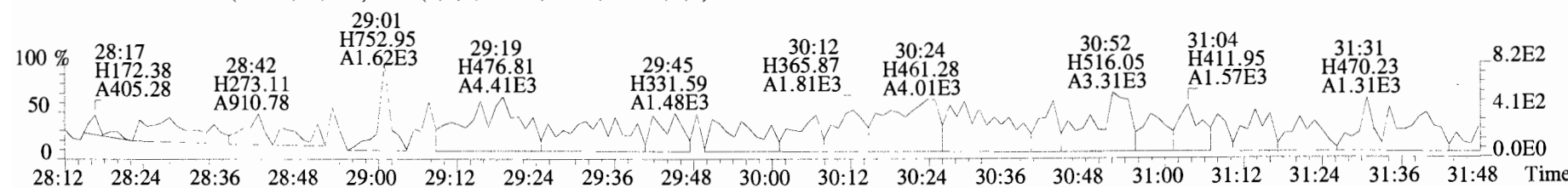
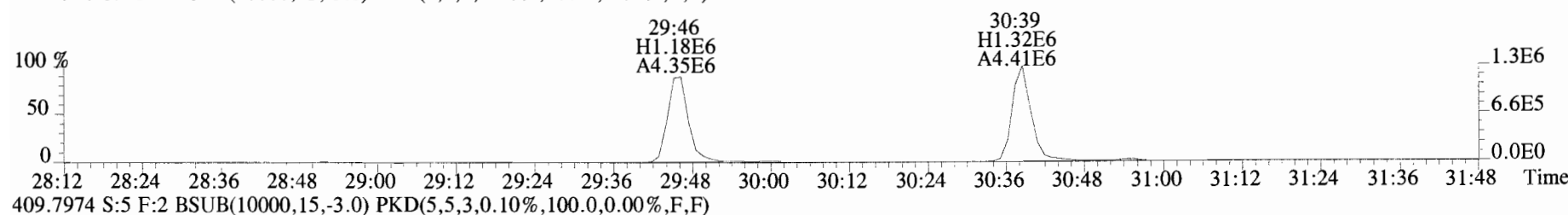
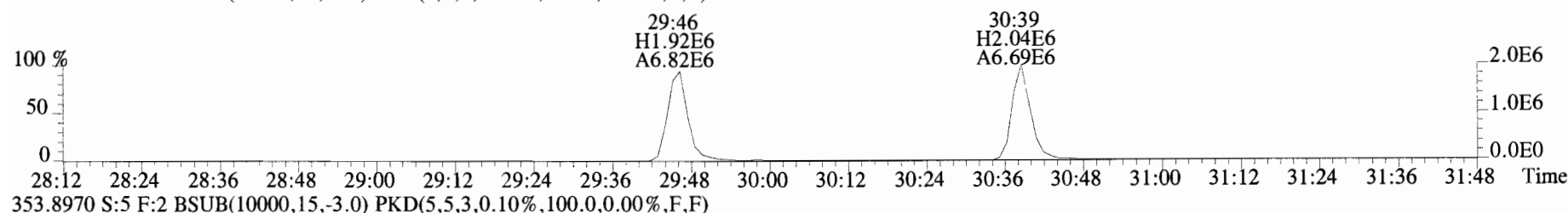
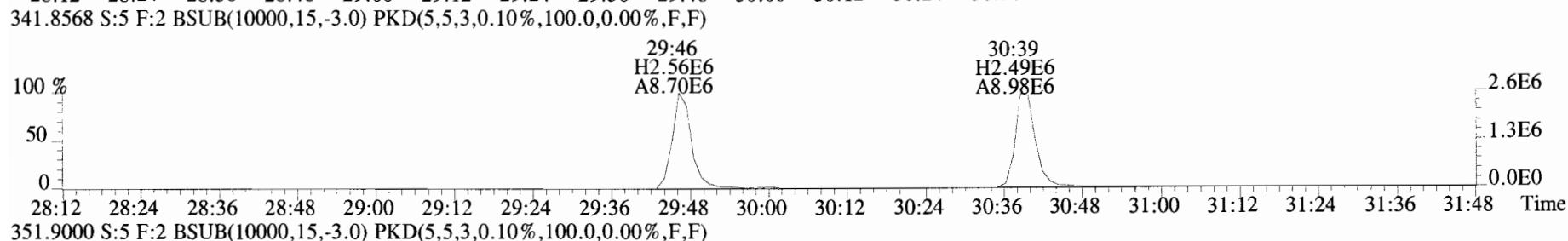
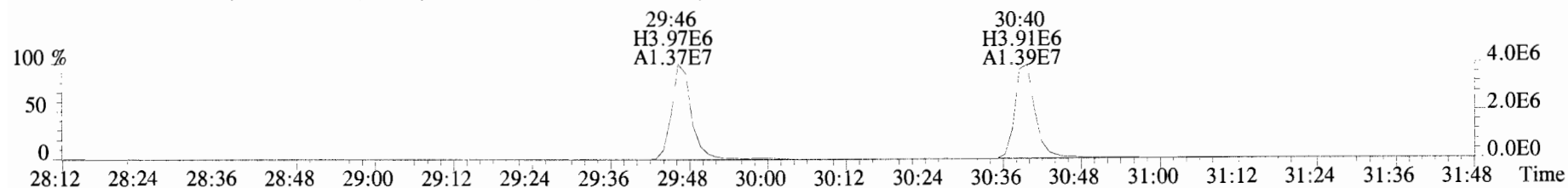
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



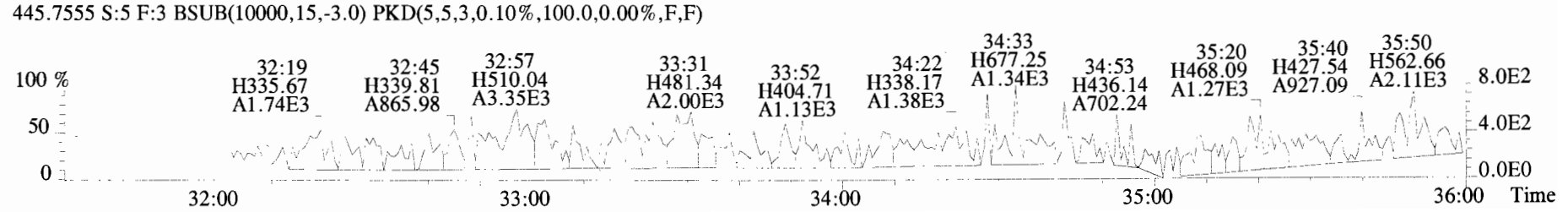
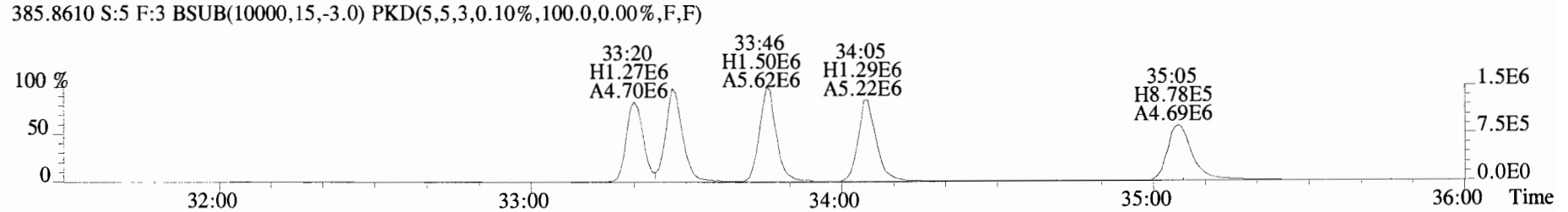
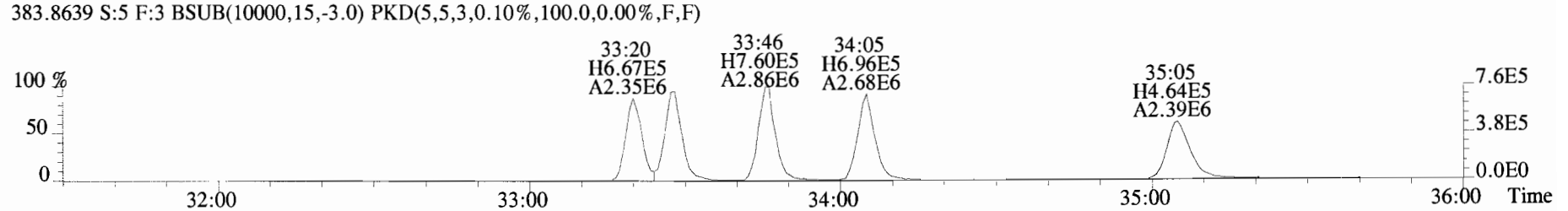
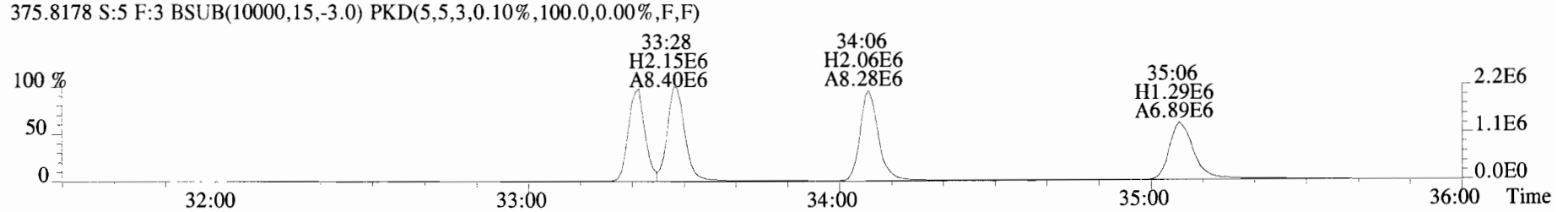
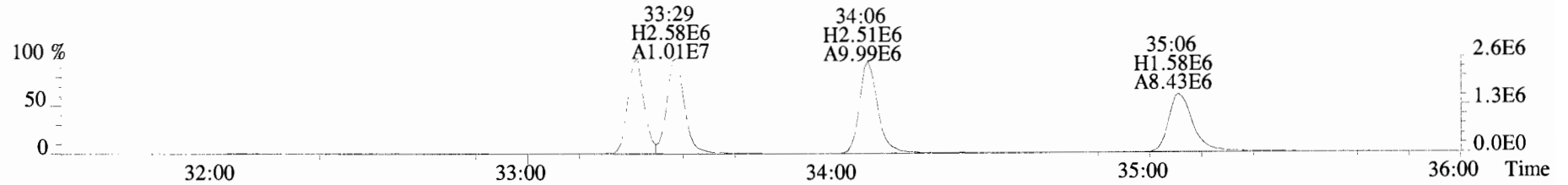
File:191009D1 #1-514 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)

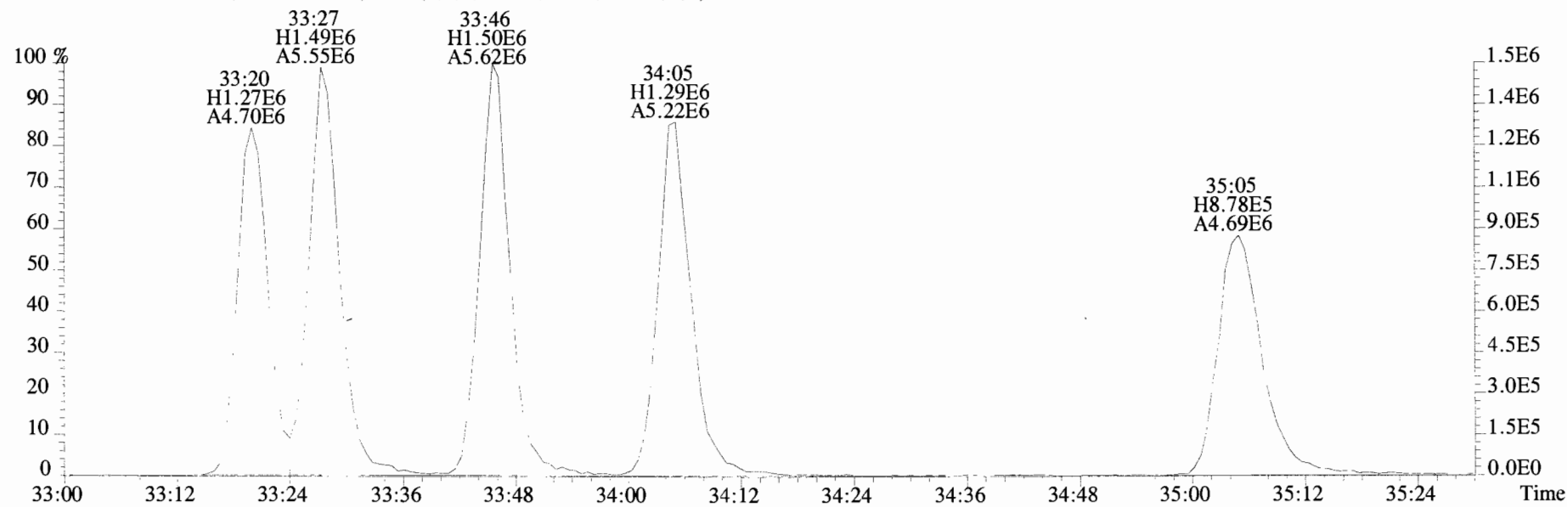
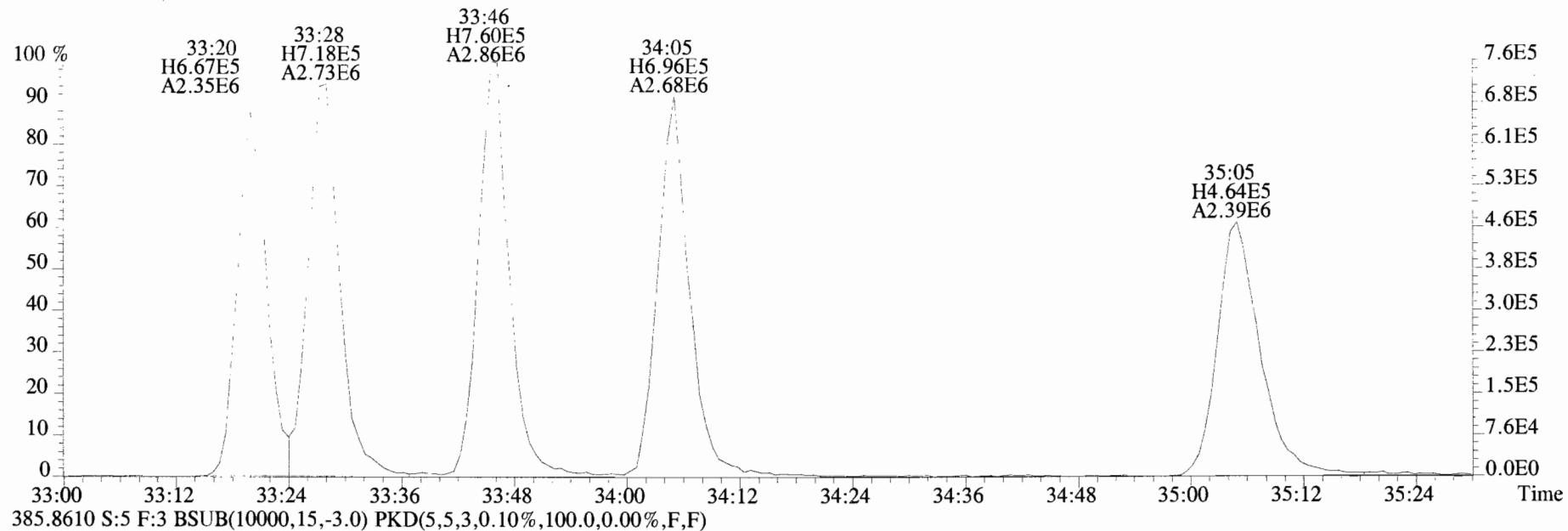


File:191009D1 #1-355 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
 373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

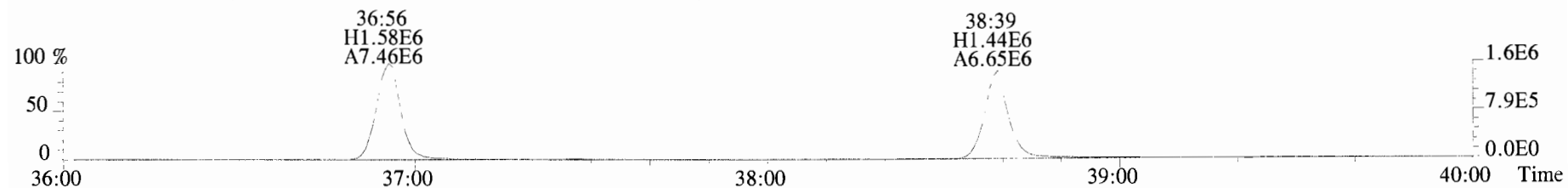




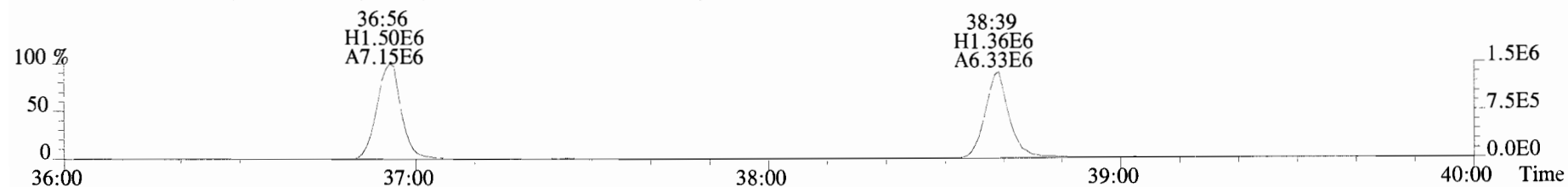
File: 191009D1 #1-355 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG7 Text: ST191009D1-5 1613 CS4 19C2205 Exp: OCDD\_DB5  
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



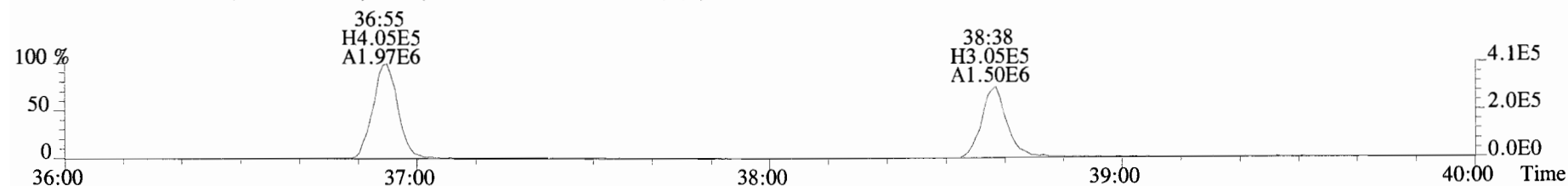
File:191009D1 #1-356 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



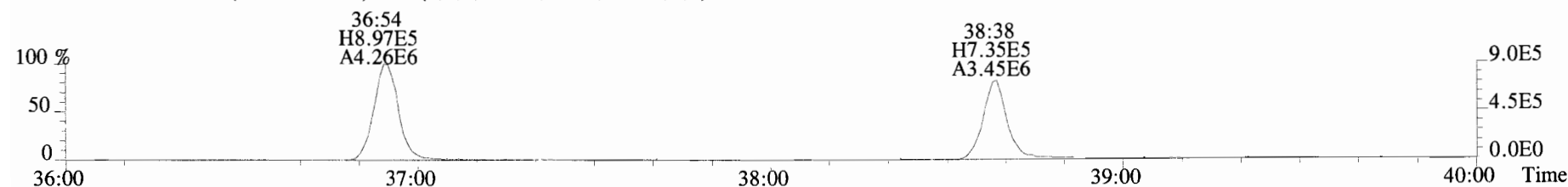
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



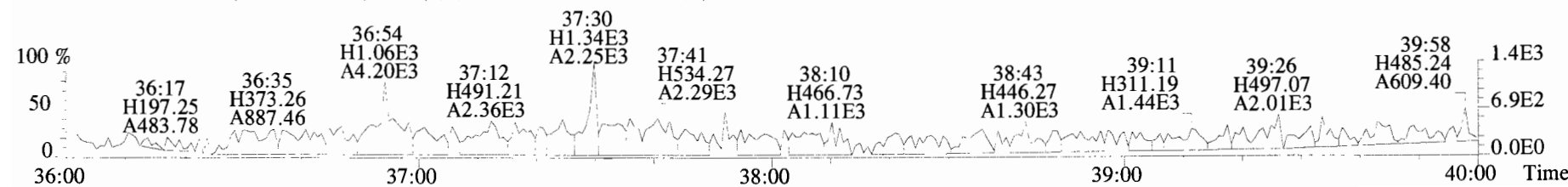
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



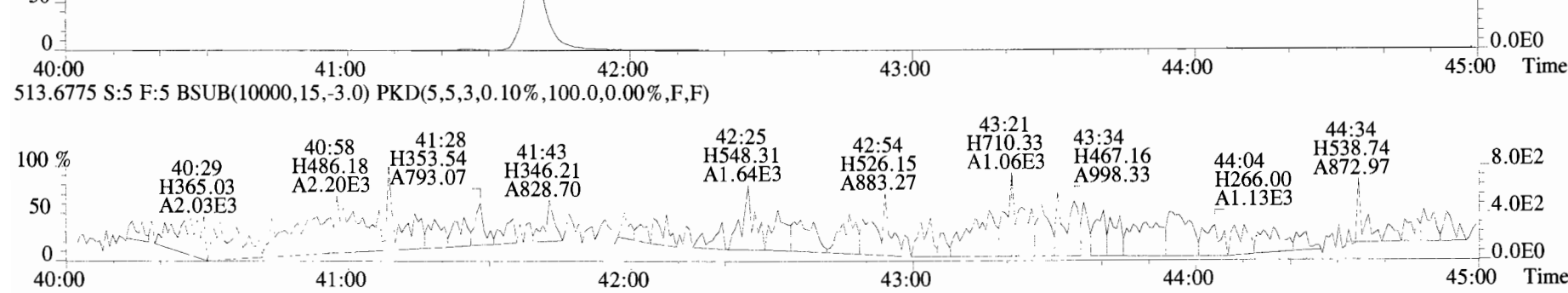
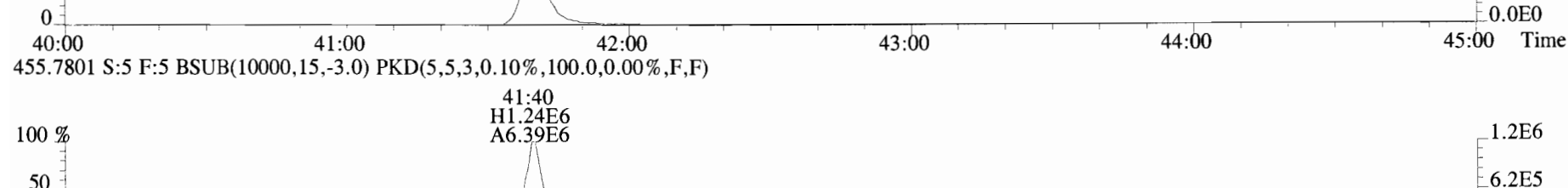
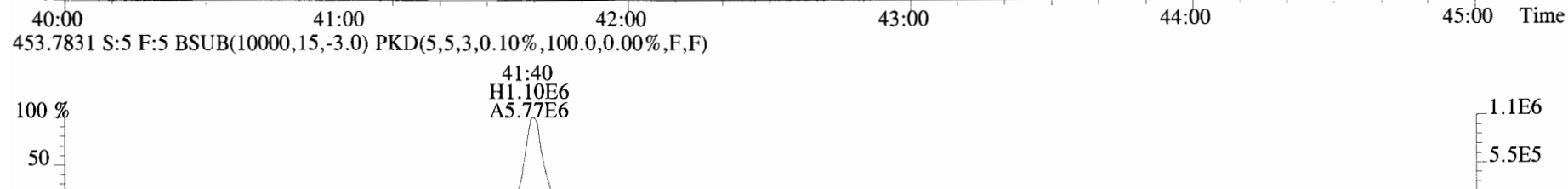
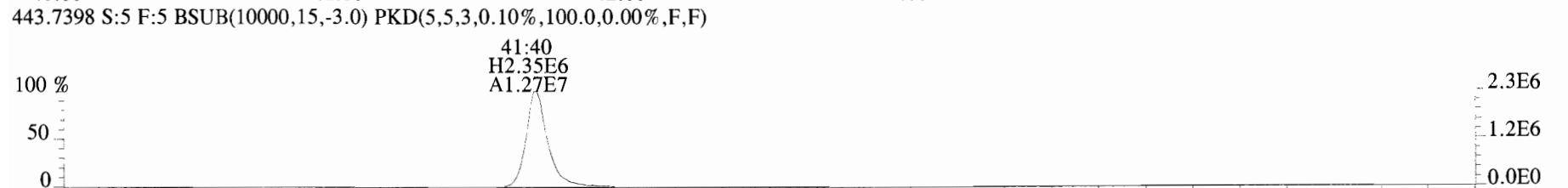
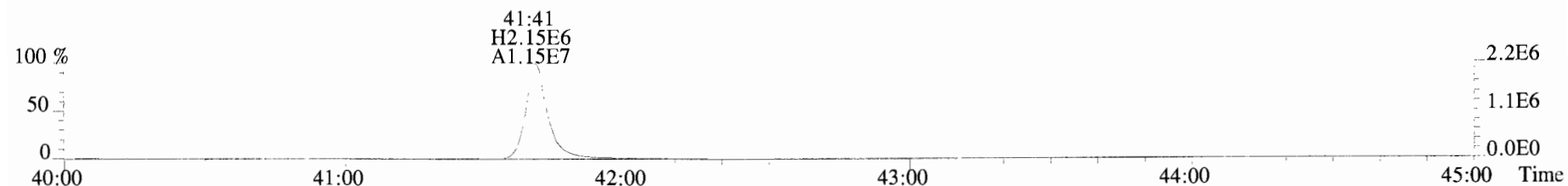
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



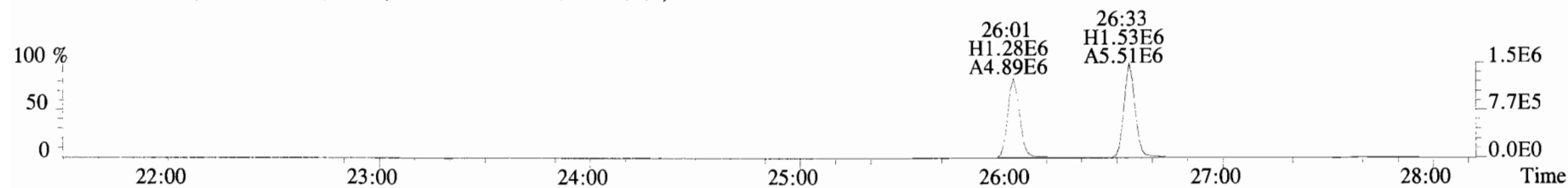
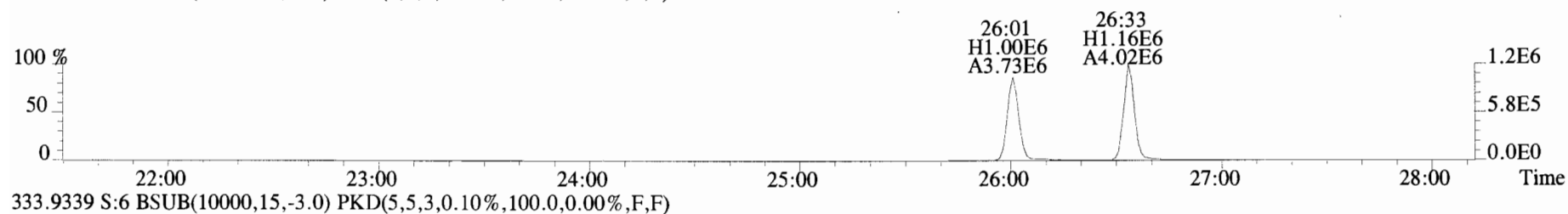
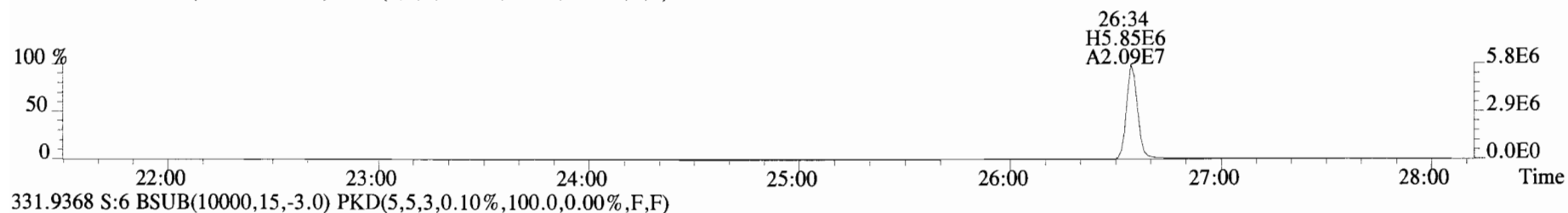
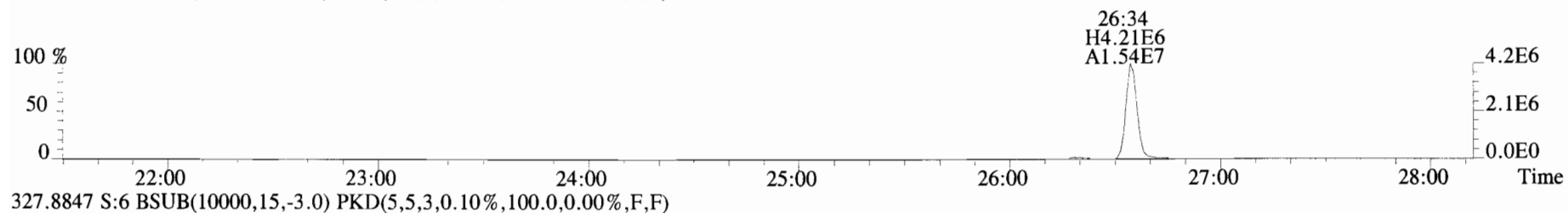
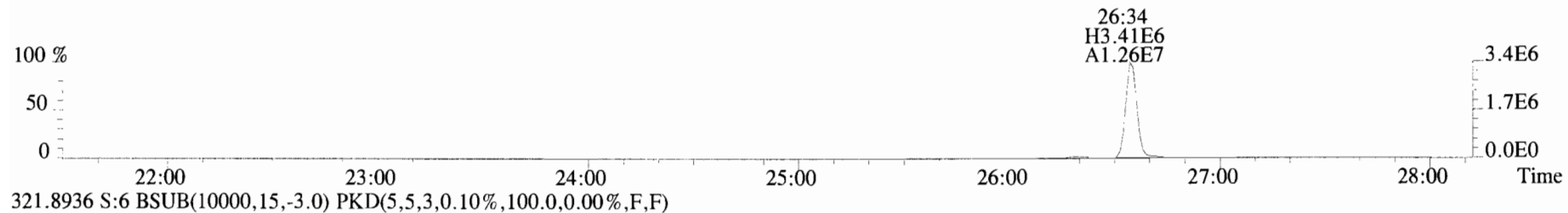
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



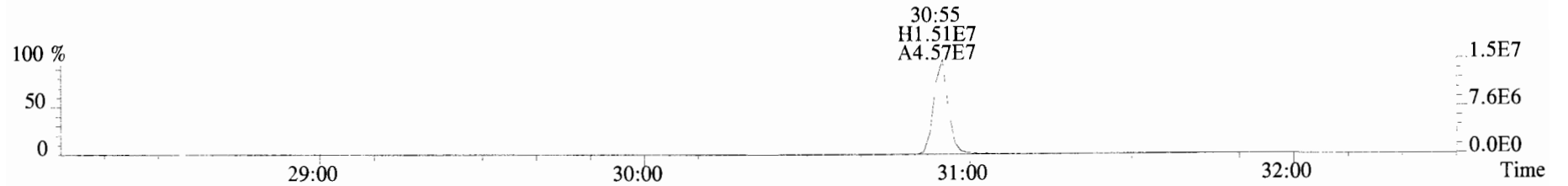
File:191009D1 #1-431 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD\_DB5  
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



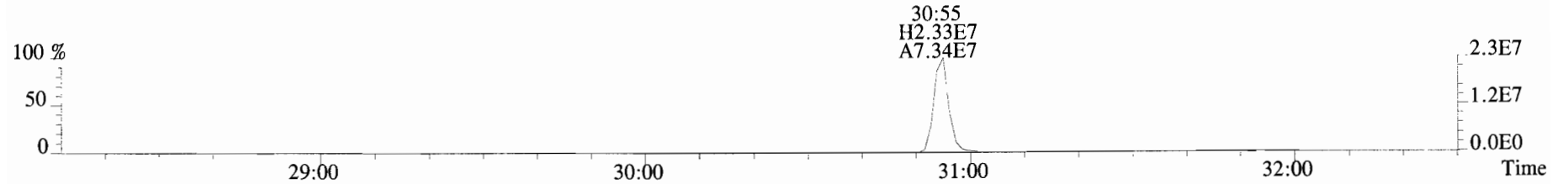
File:191009D1 #1-513 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



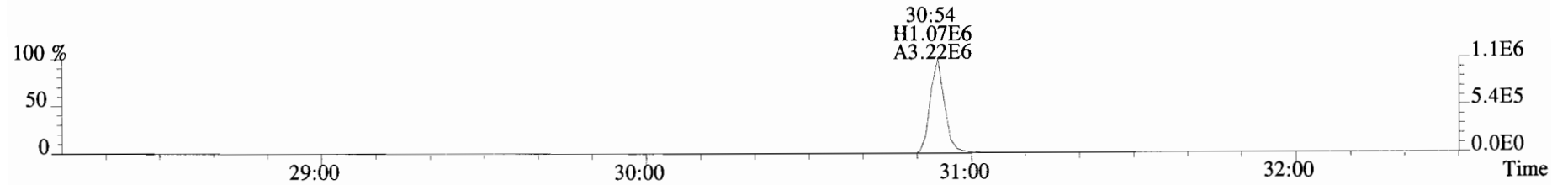
File:191009D1 #1-211 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



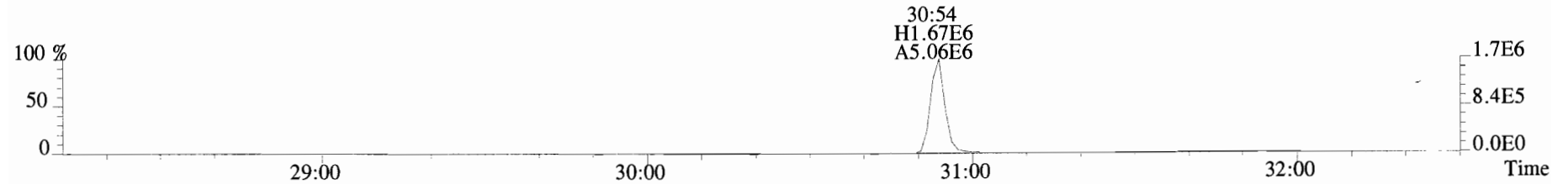
355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



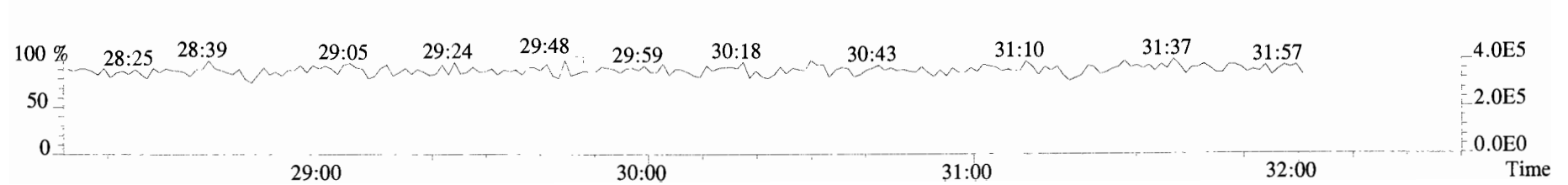
365.8978 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



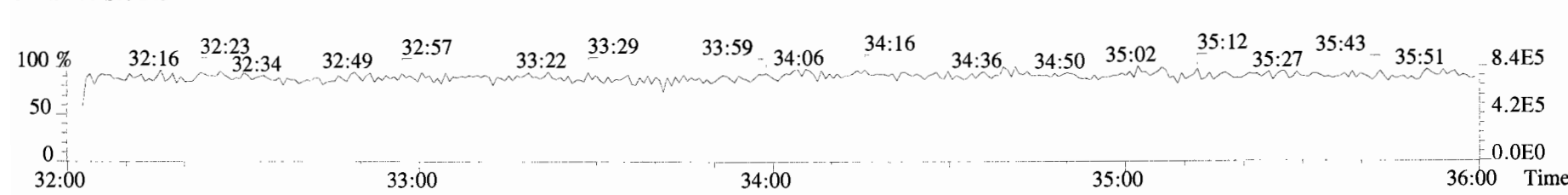
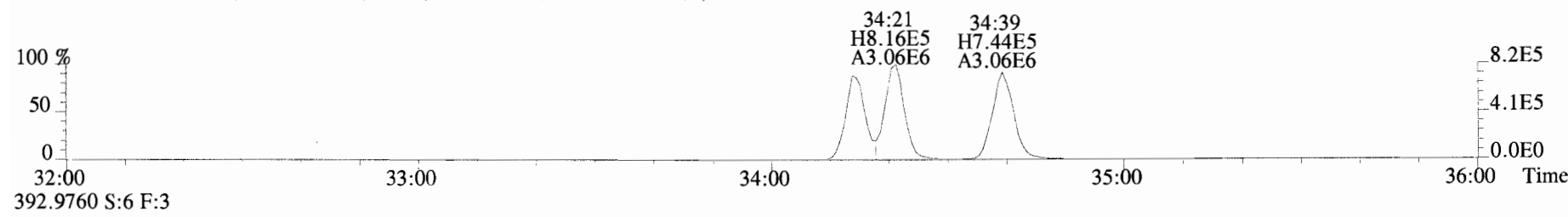
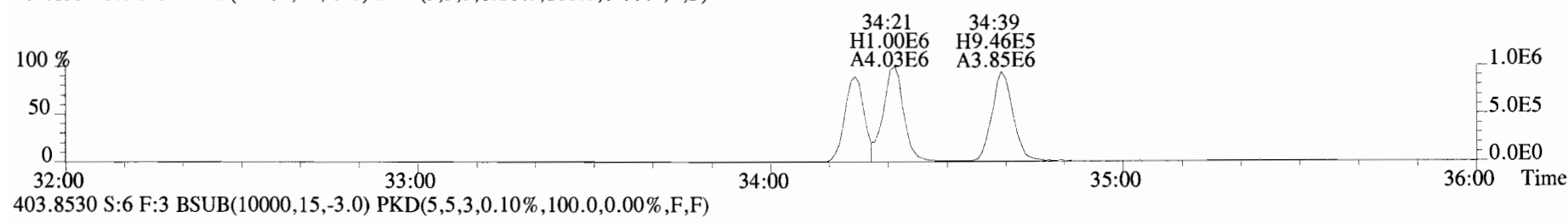
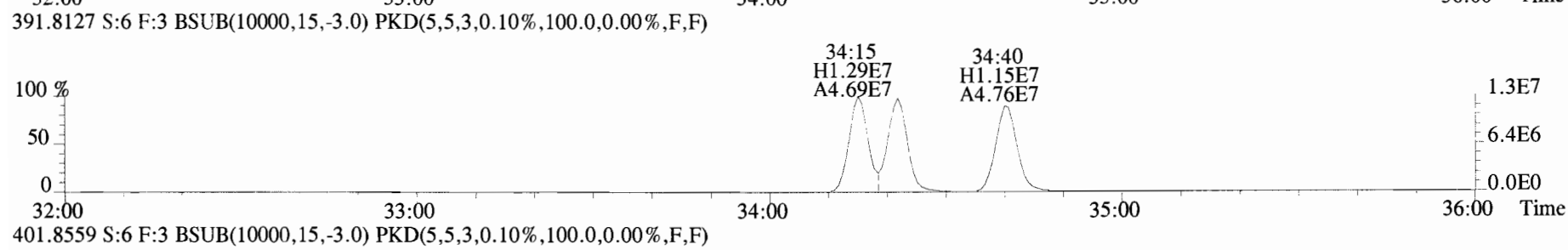
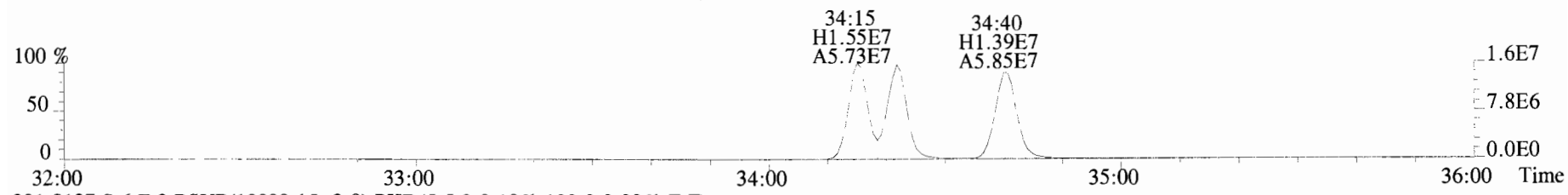
367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



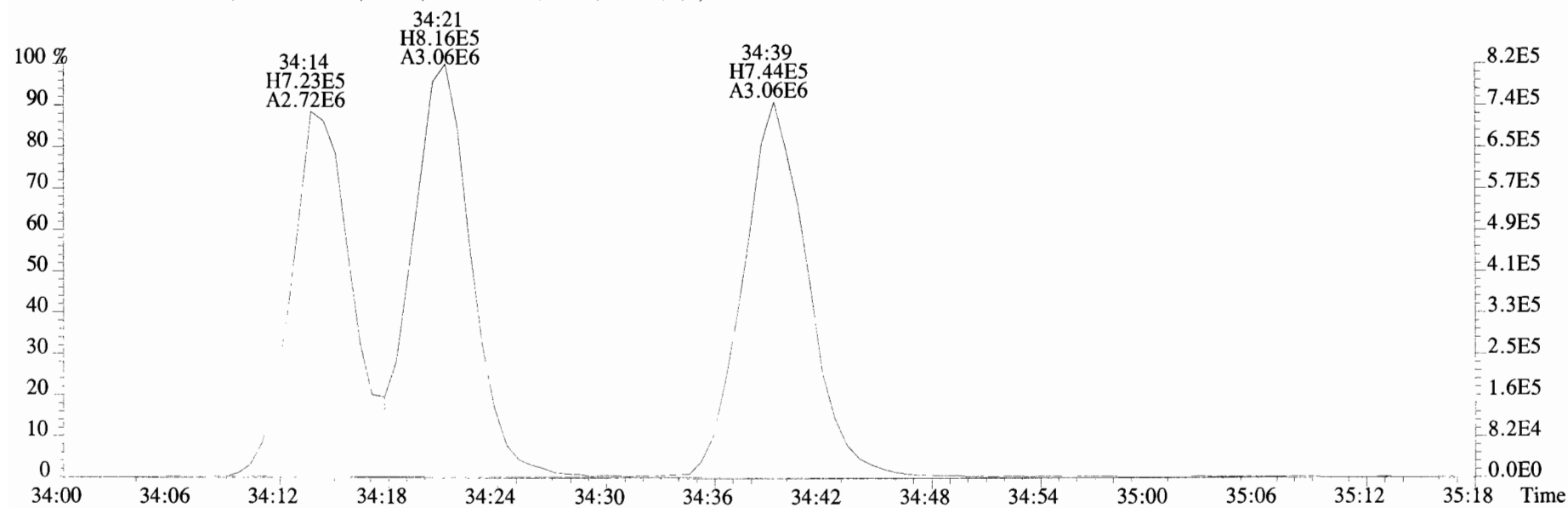
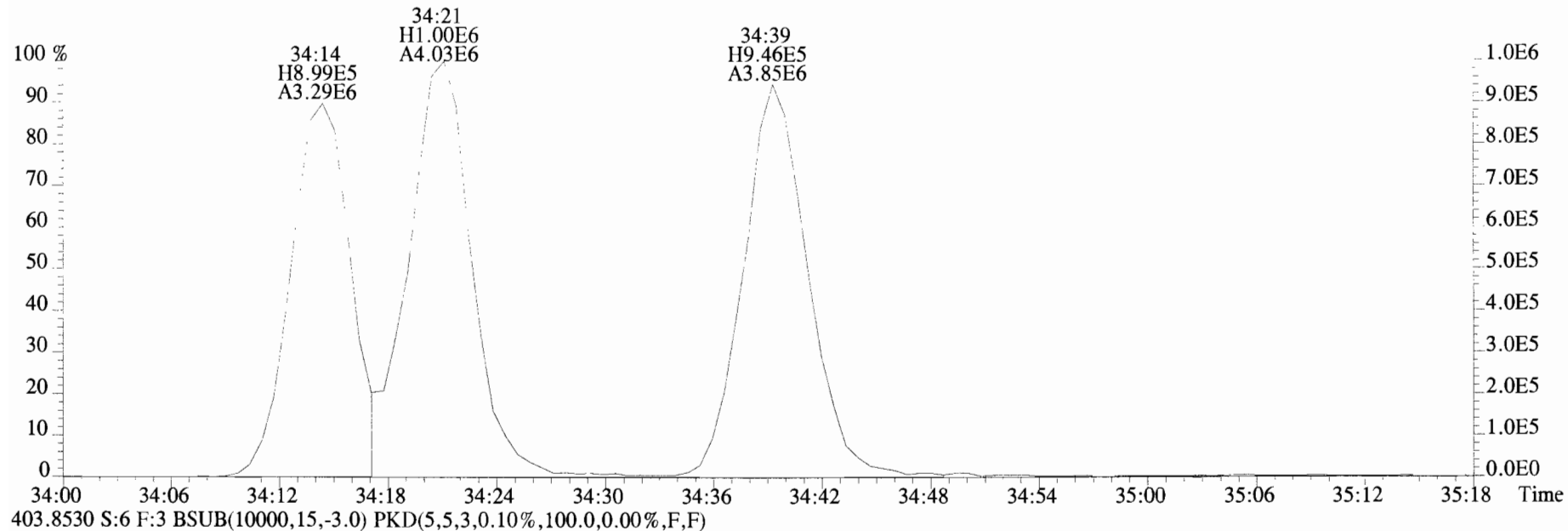
366.9792 S:6 F:2



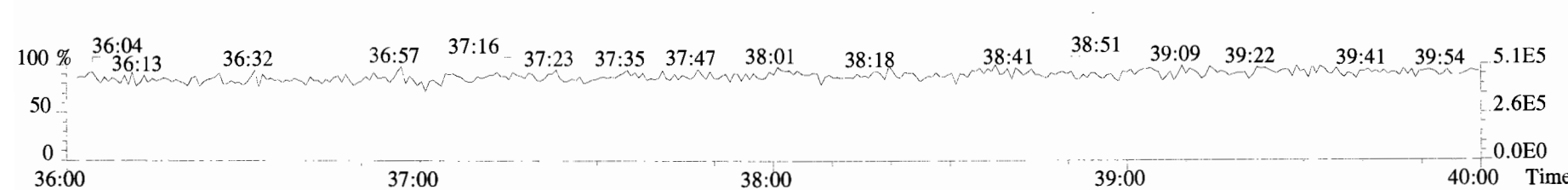
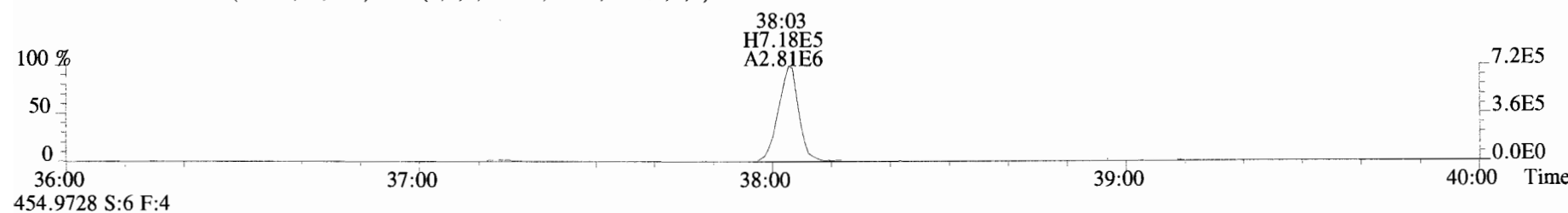
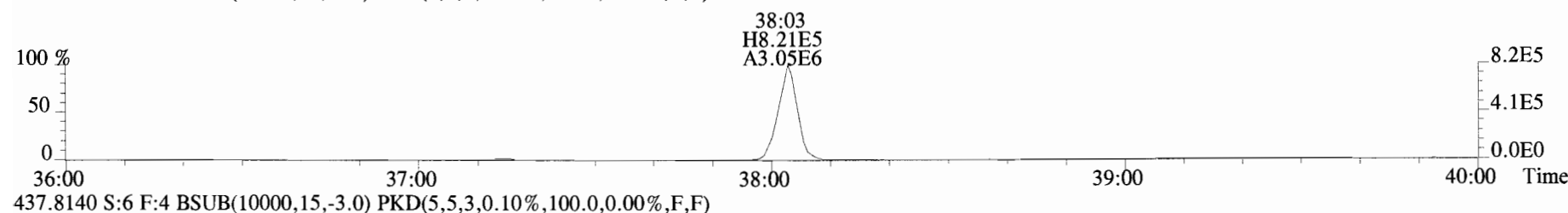
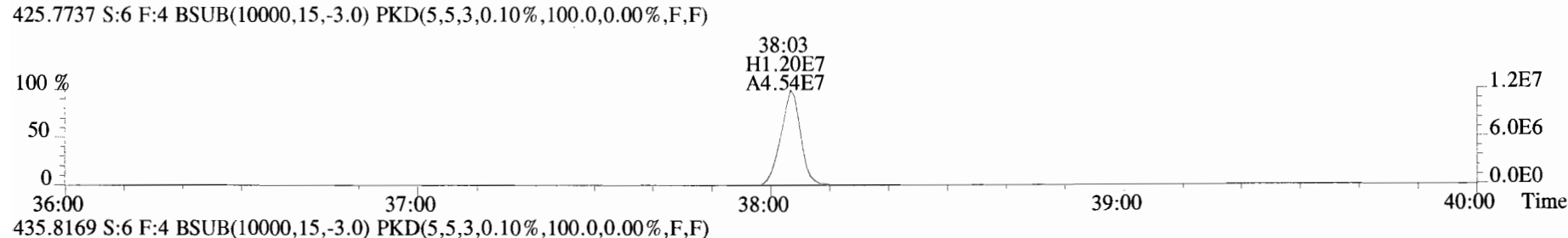
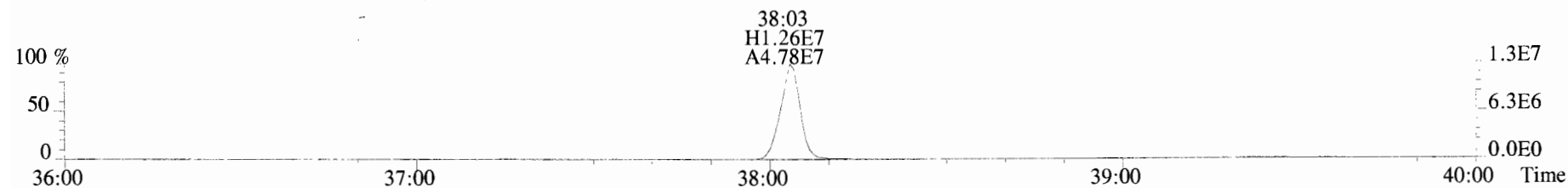
File:191009D1 #1-354 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)

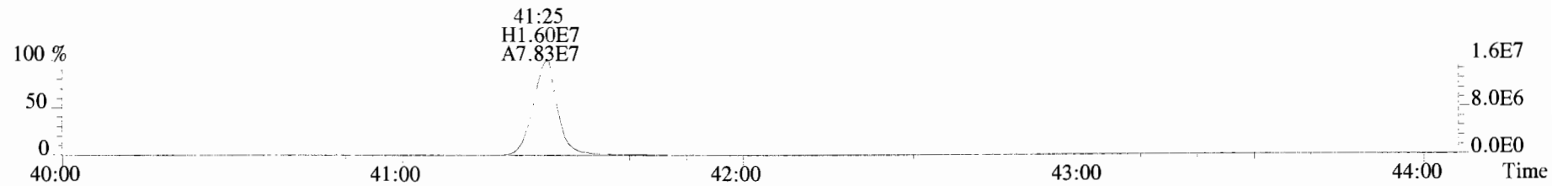


File:191009D1 #1-356 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

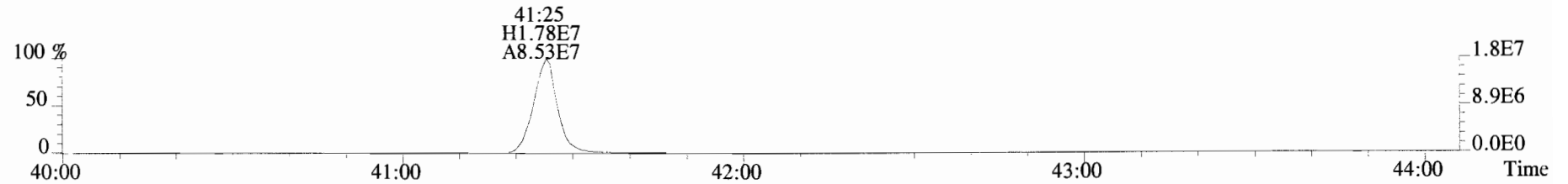




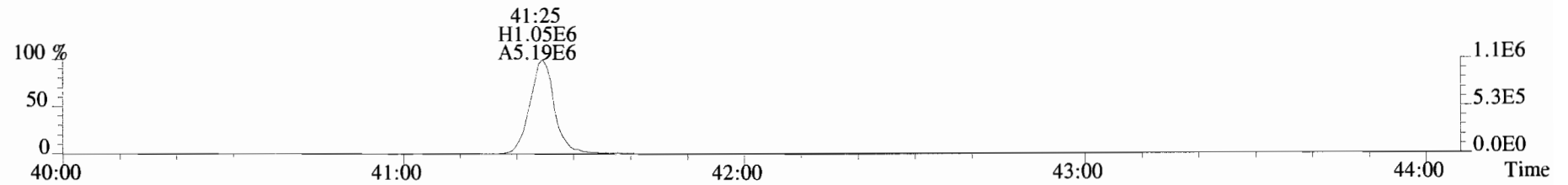
File:191009D1 #1-431 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



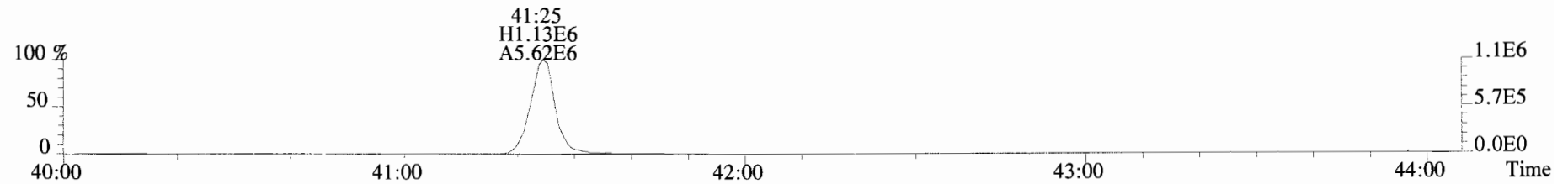
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



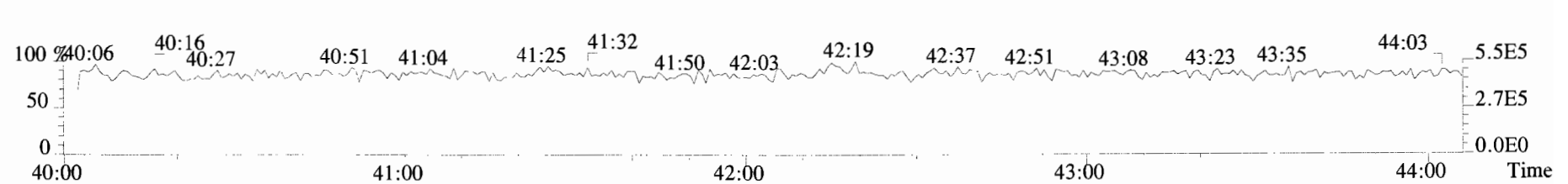
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



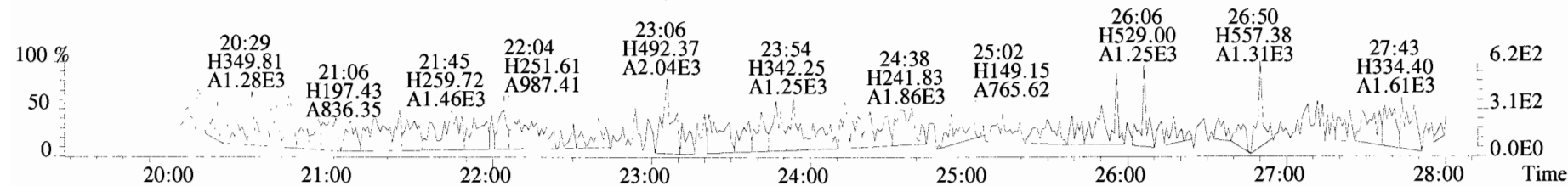
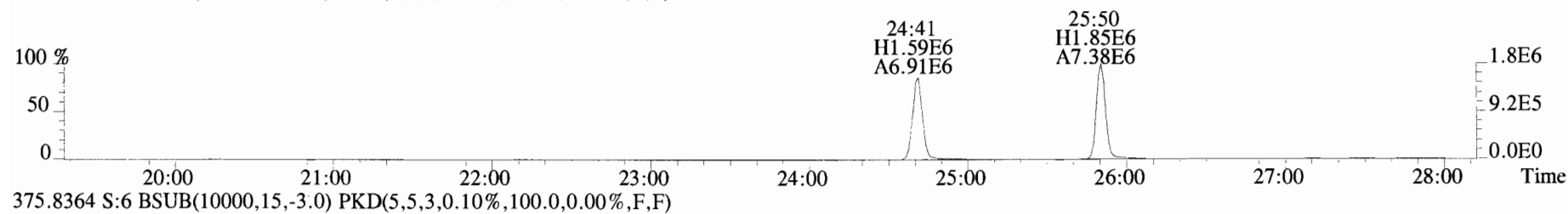
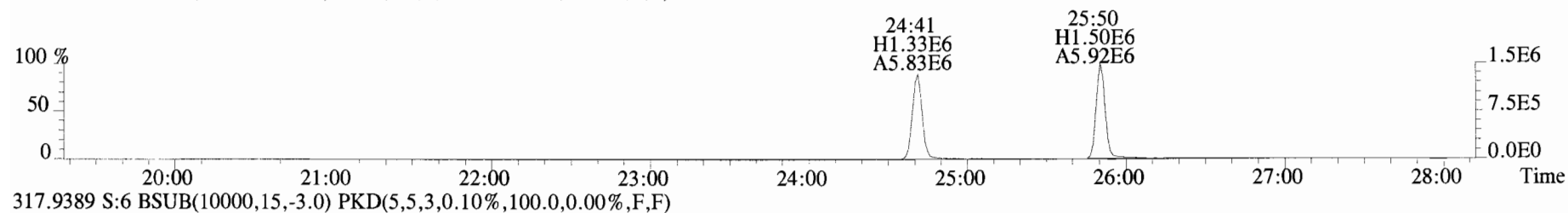
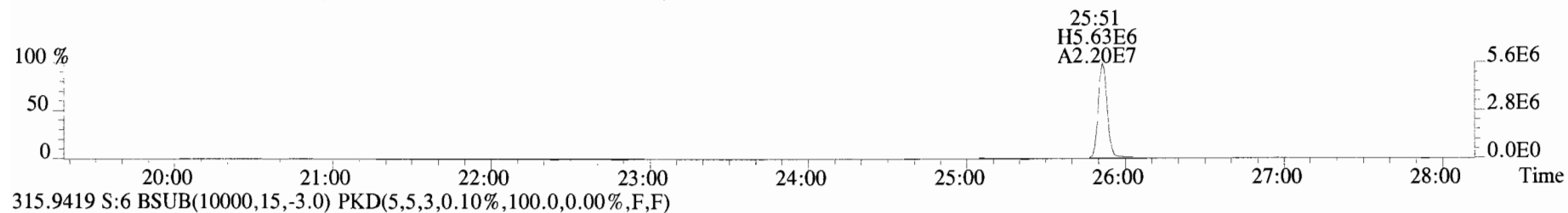
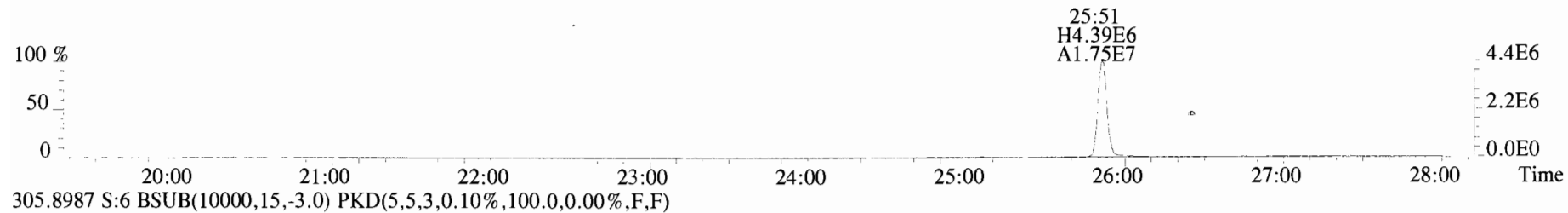
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



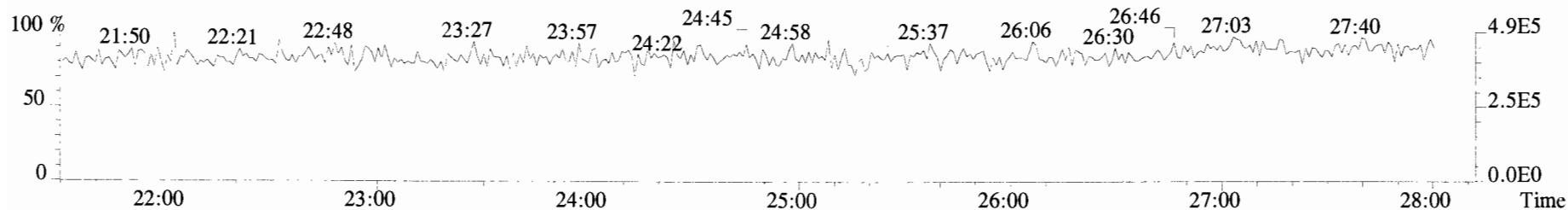
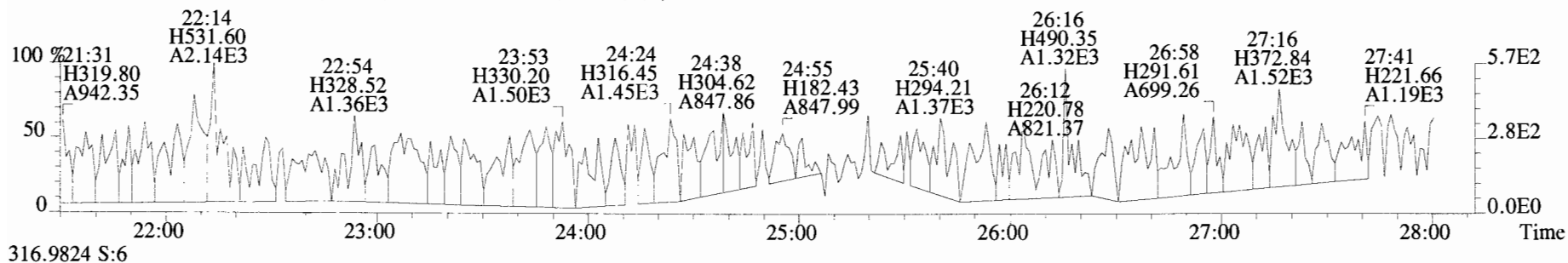
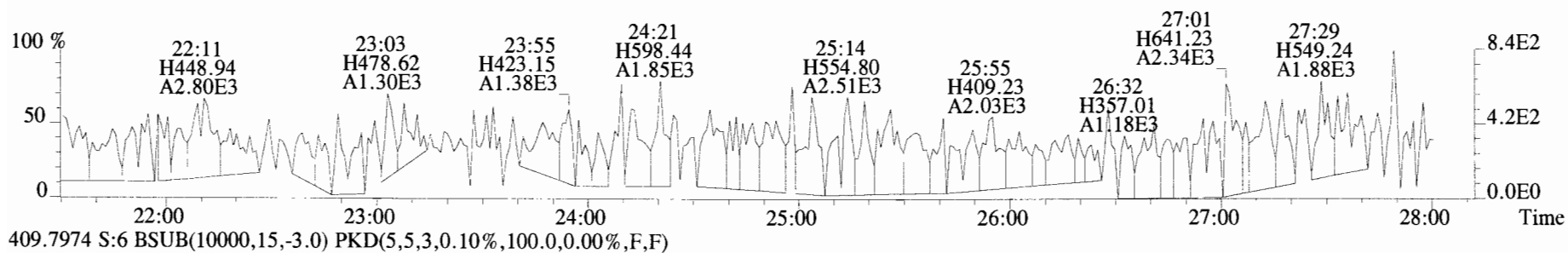
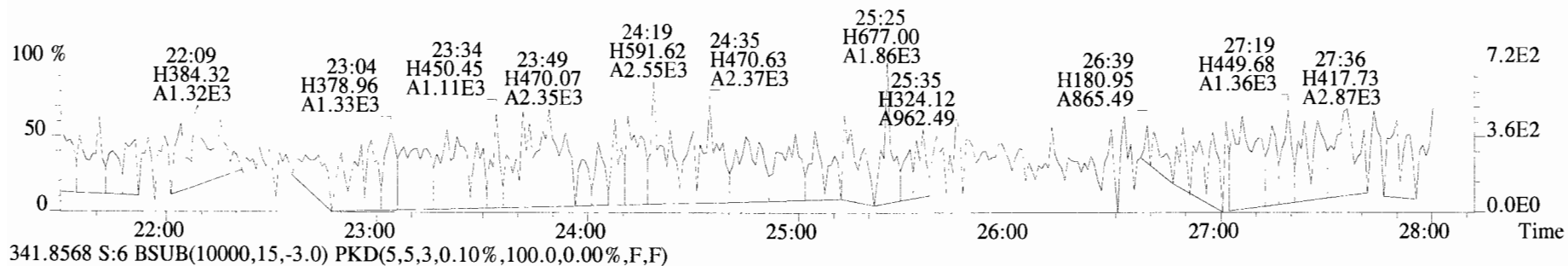
454.9728 S:6 F:5



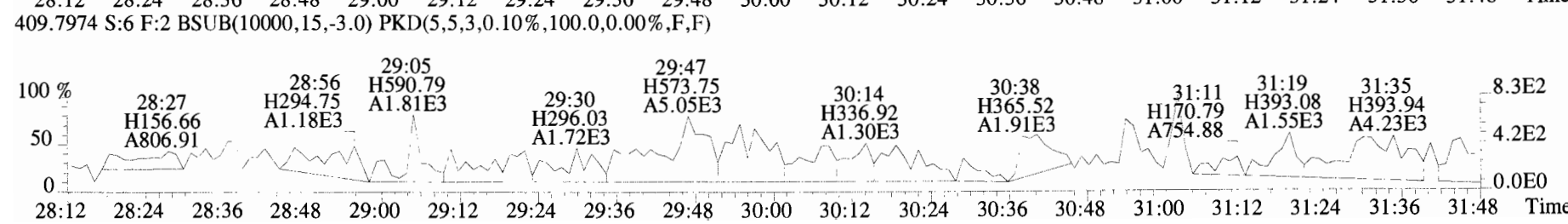
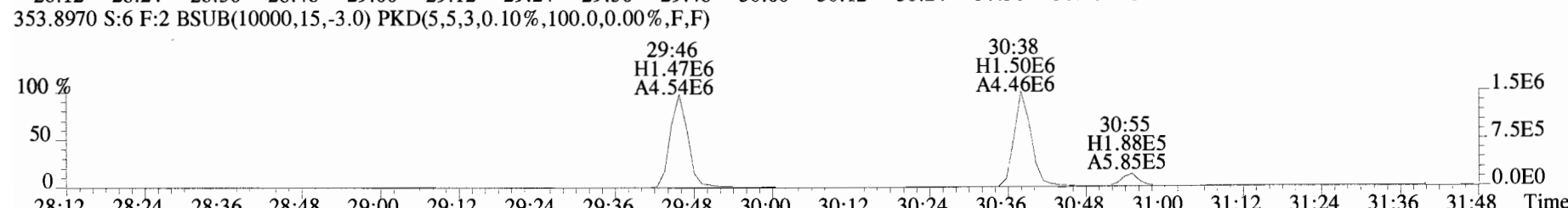
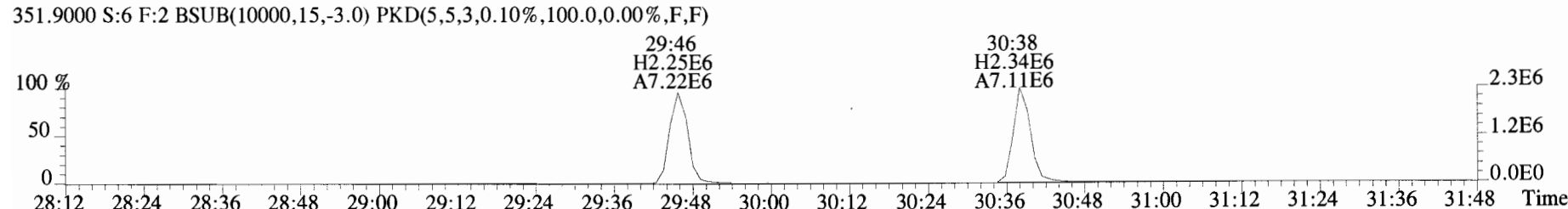
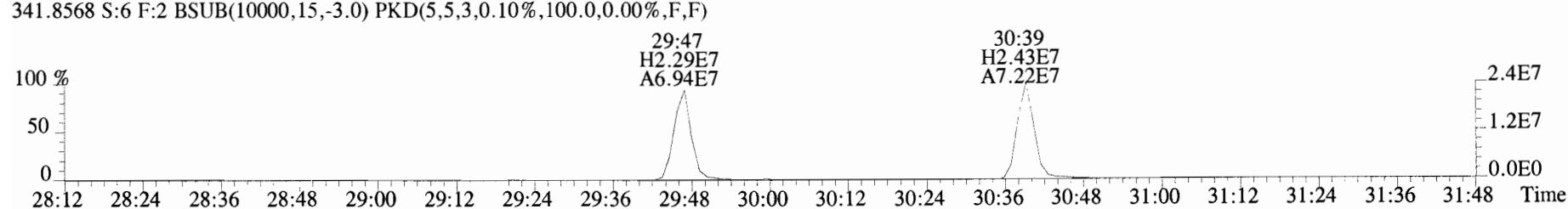
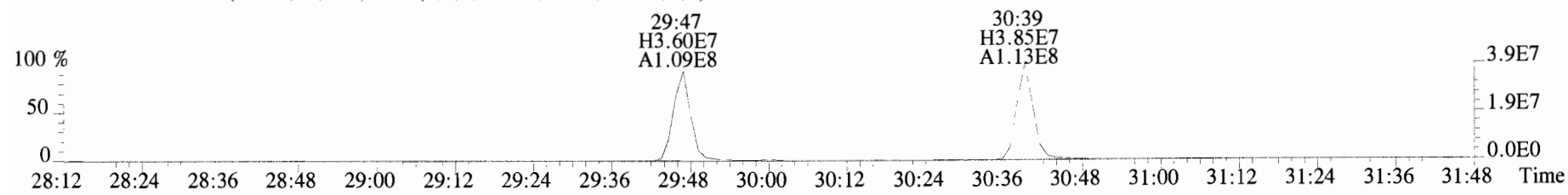
File:191009D1 #1-513 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



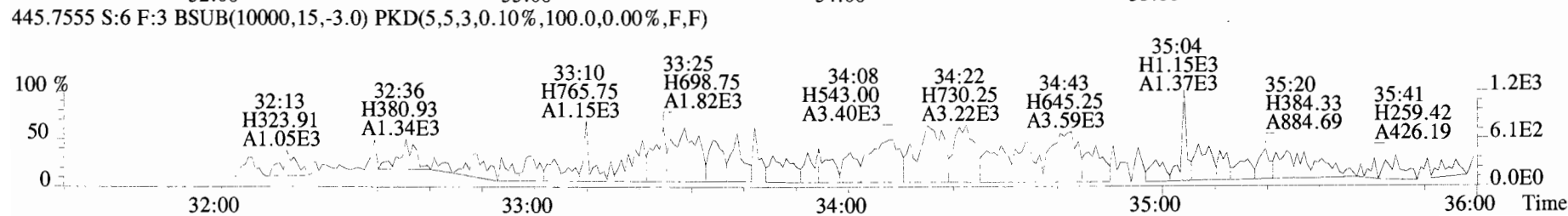
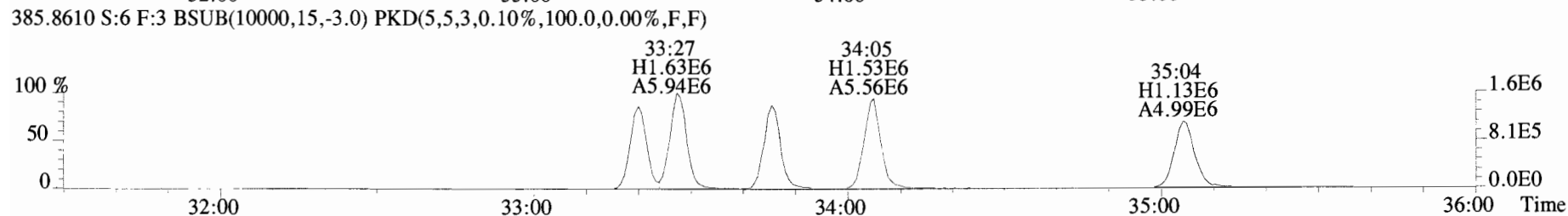
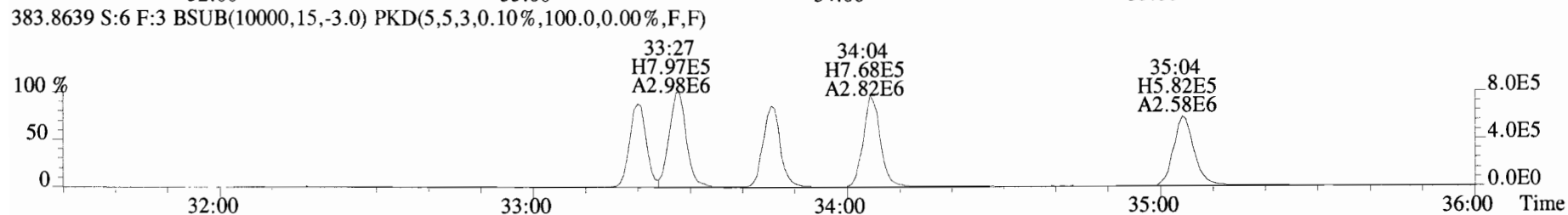
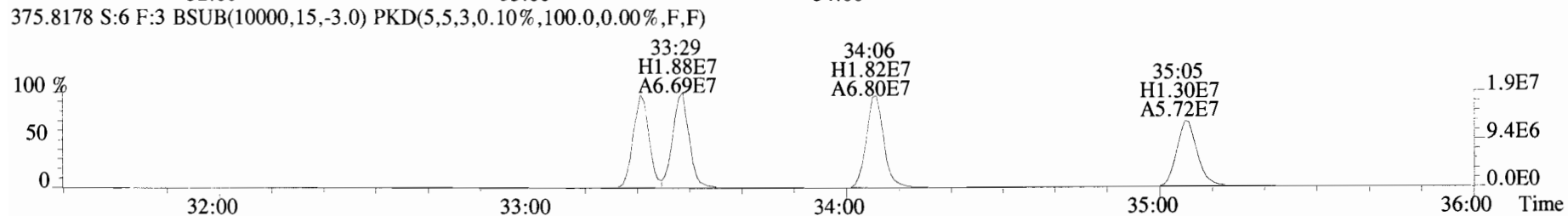
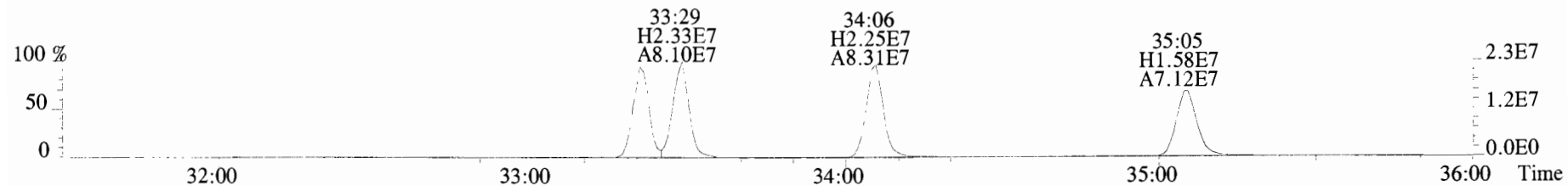
File:191009D1 #1-513 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
 339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



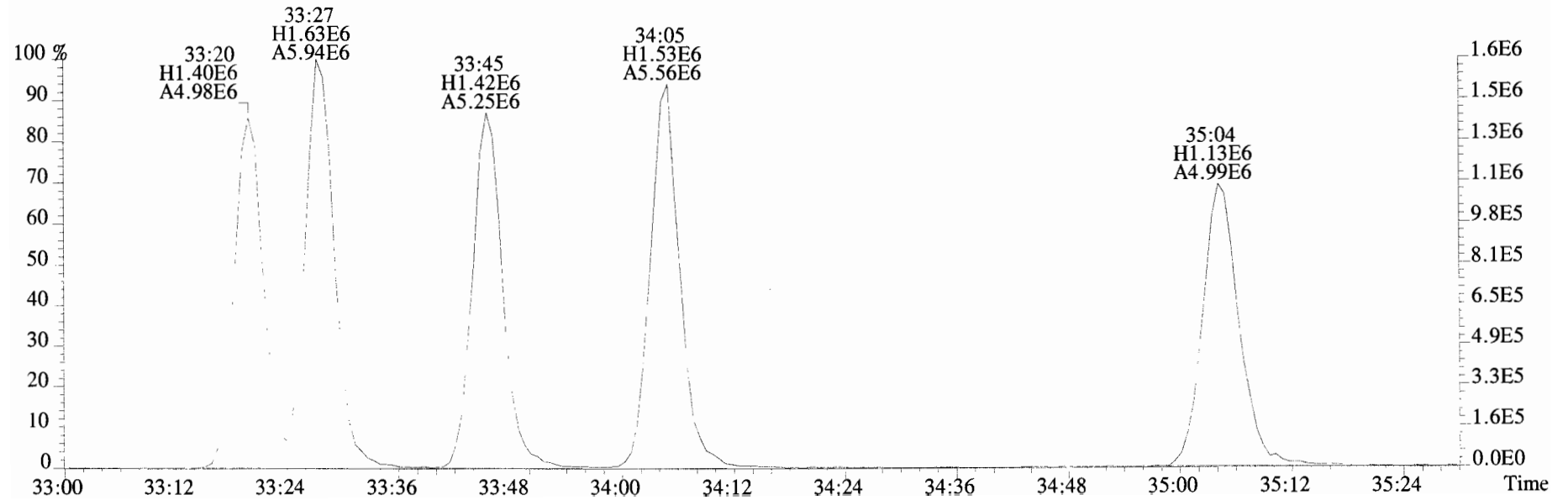
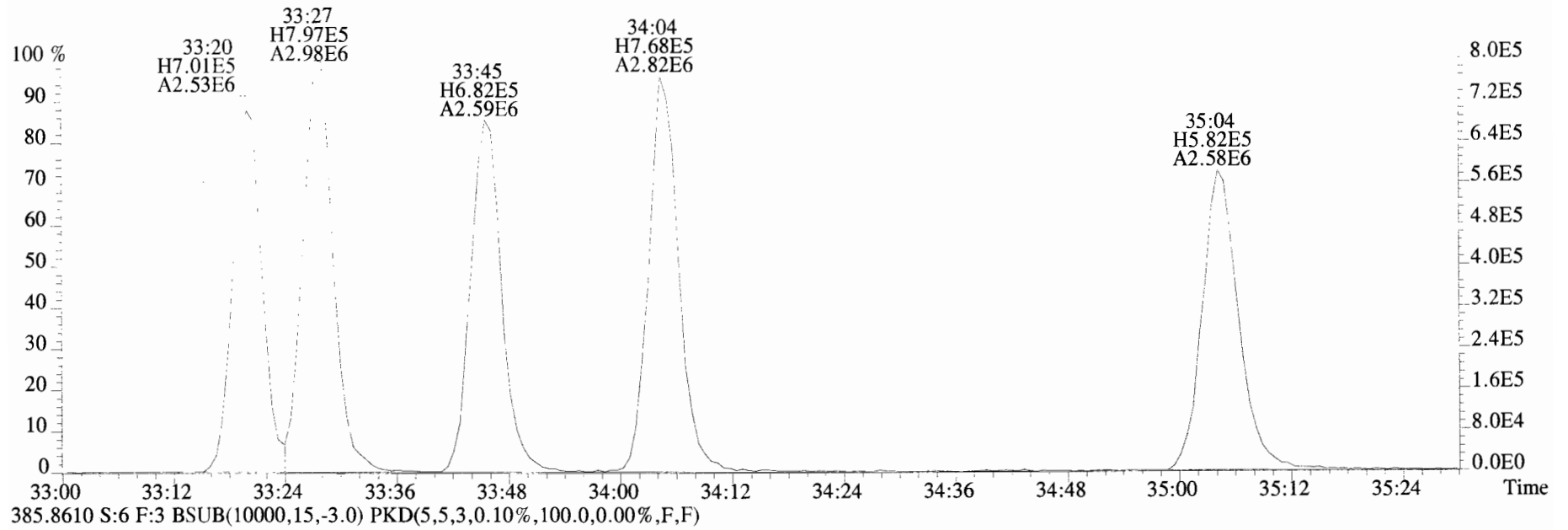
File:191009D1 #1-211 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
 339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



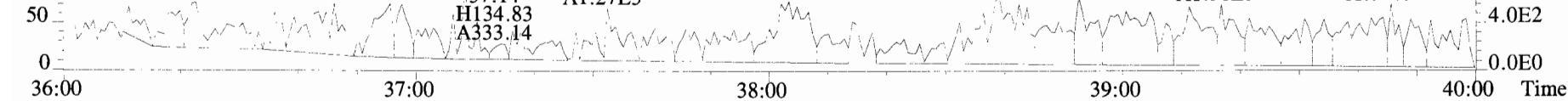
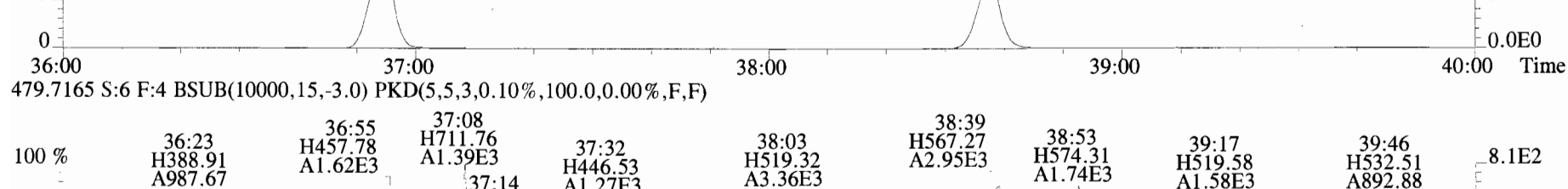
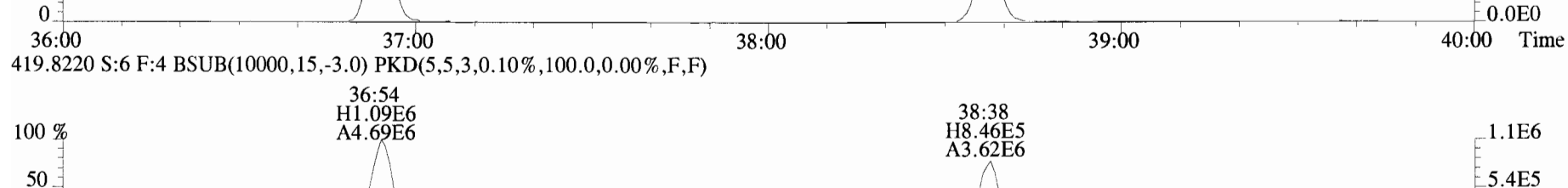
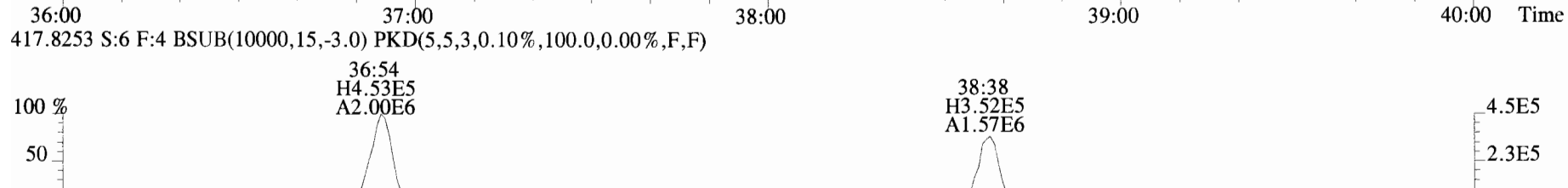
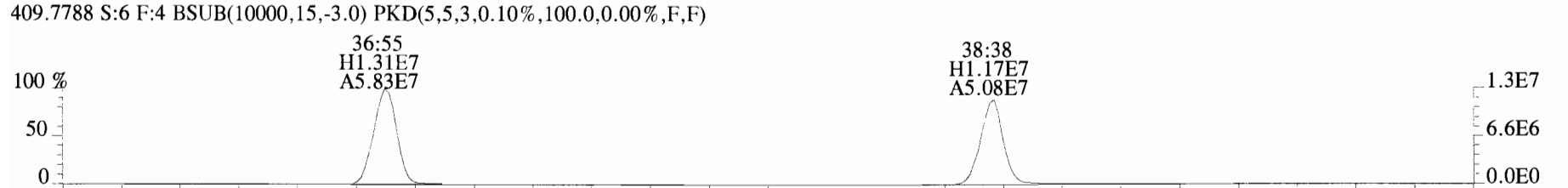
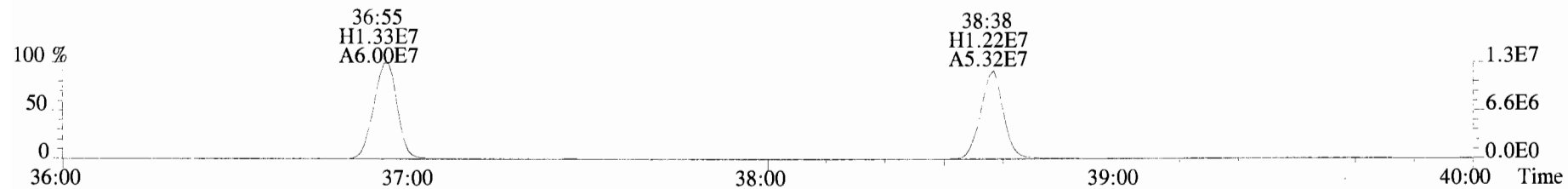
File:191009D1 #1-354 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



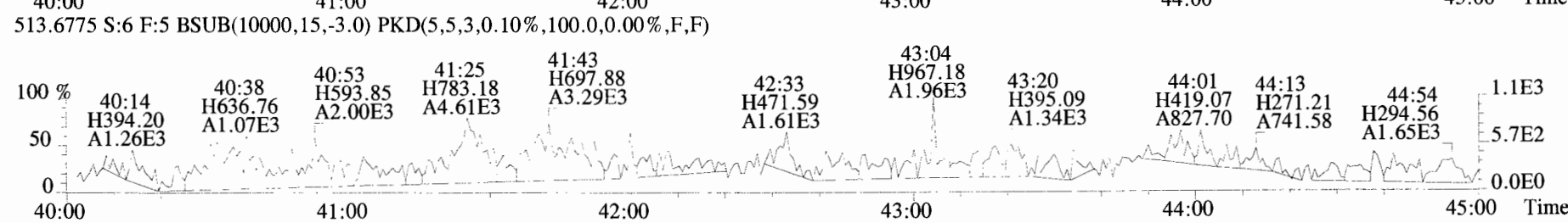
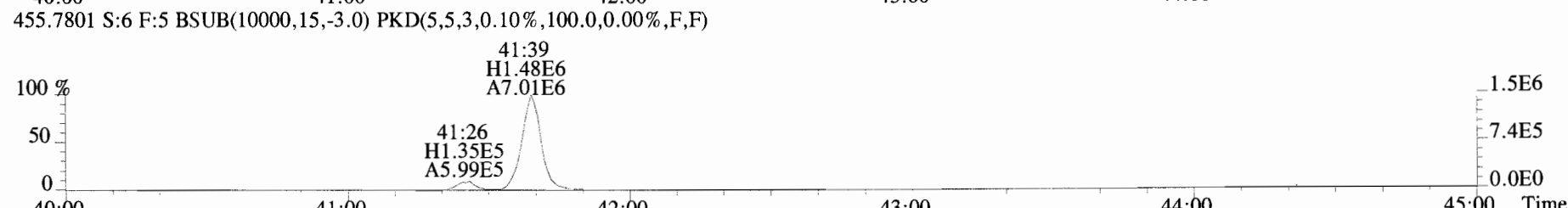
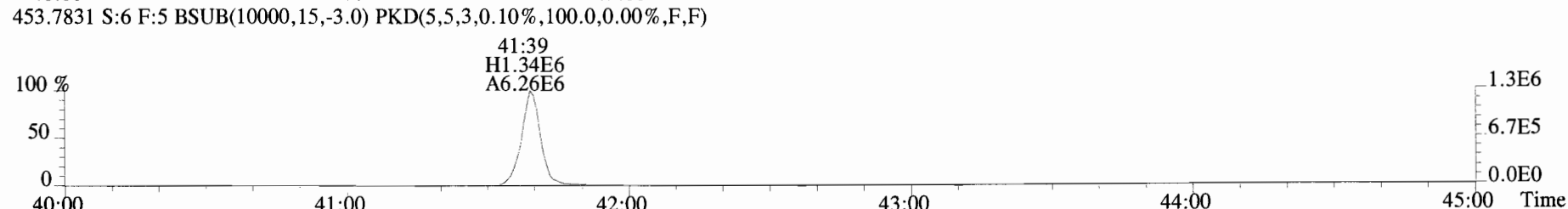
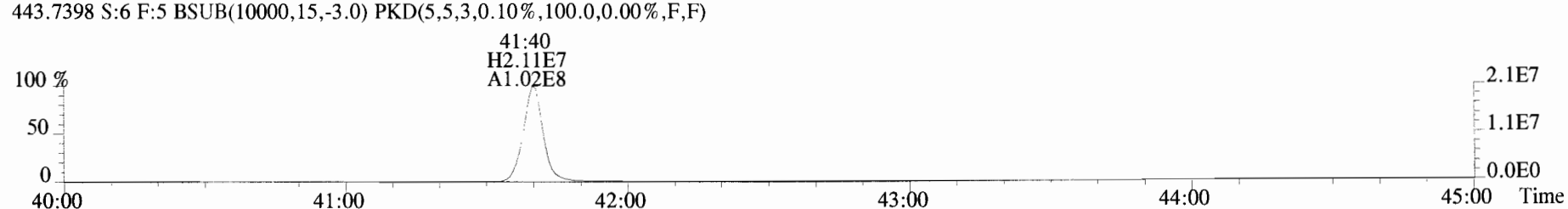
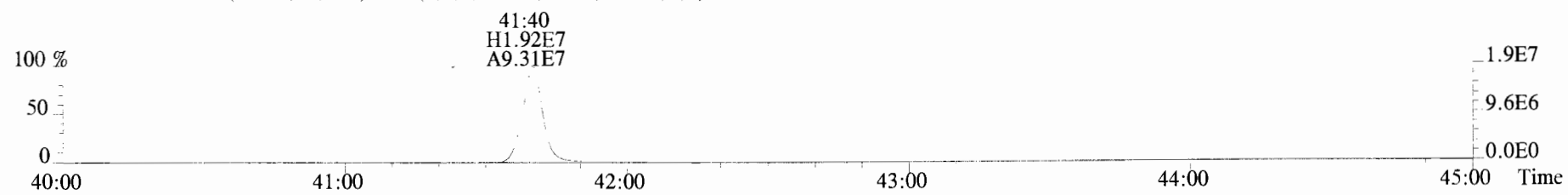
File:191009D1 #1-354 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)



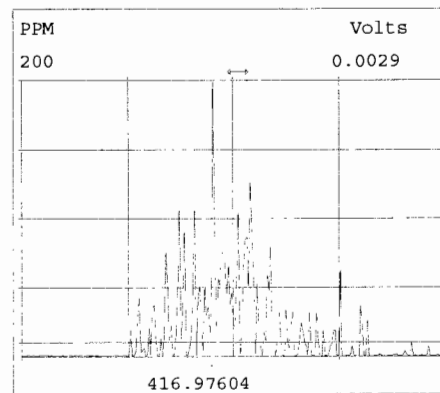
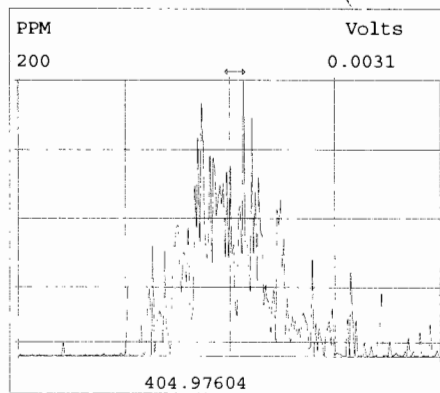
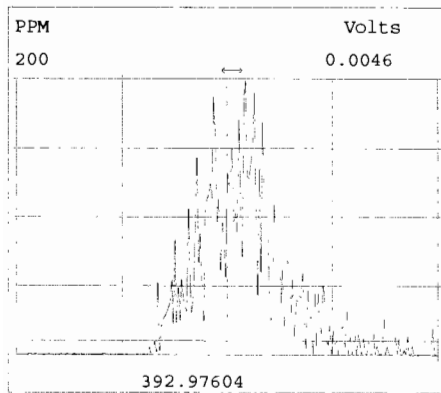
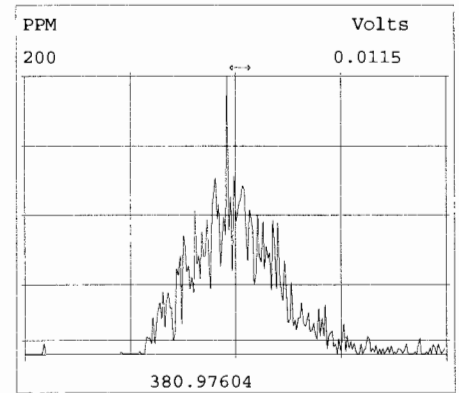
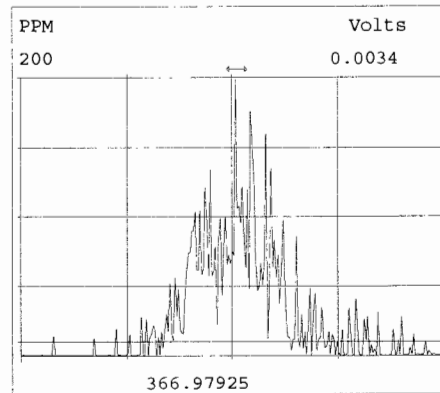
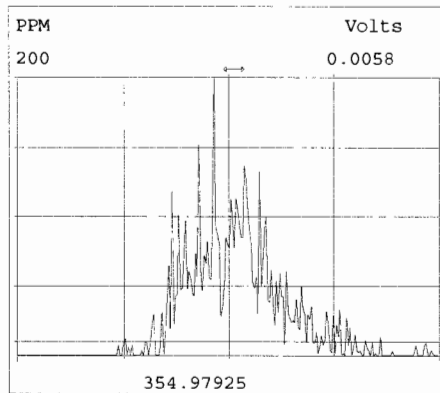
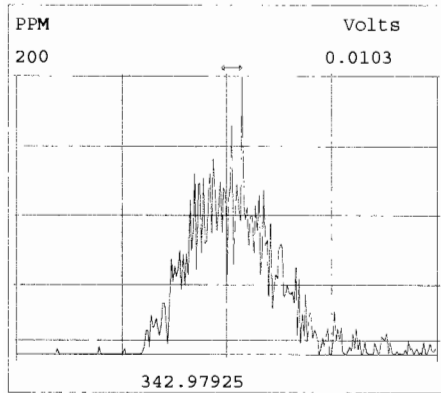
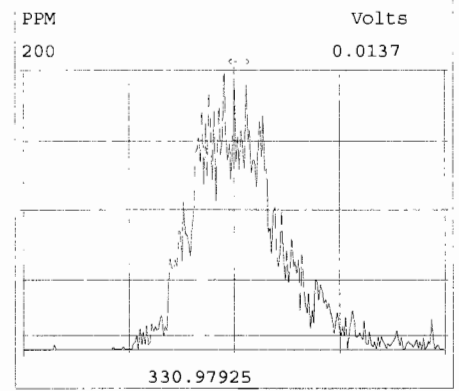
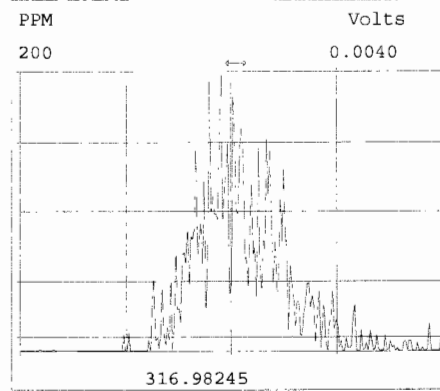
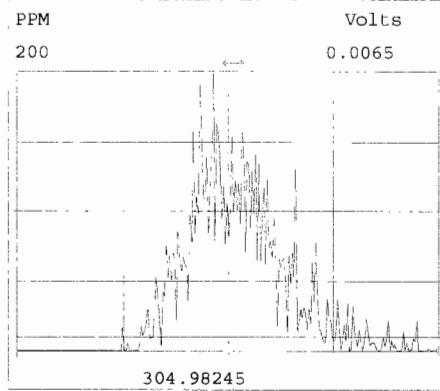
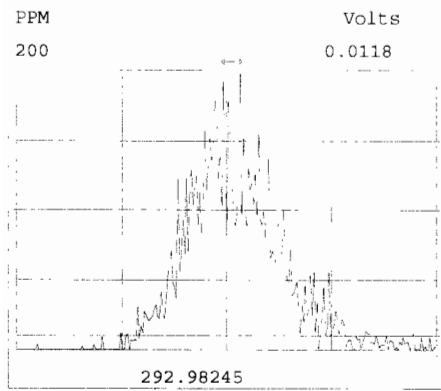
File:191009D1 #1-431 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory\_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD\_DB5  
 441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)





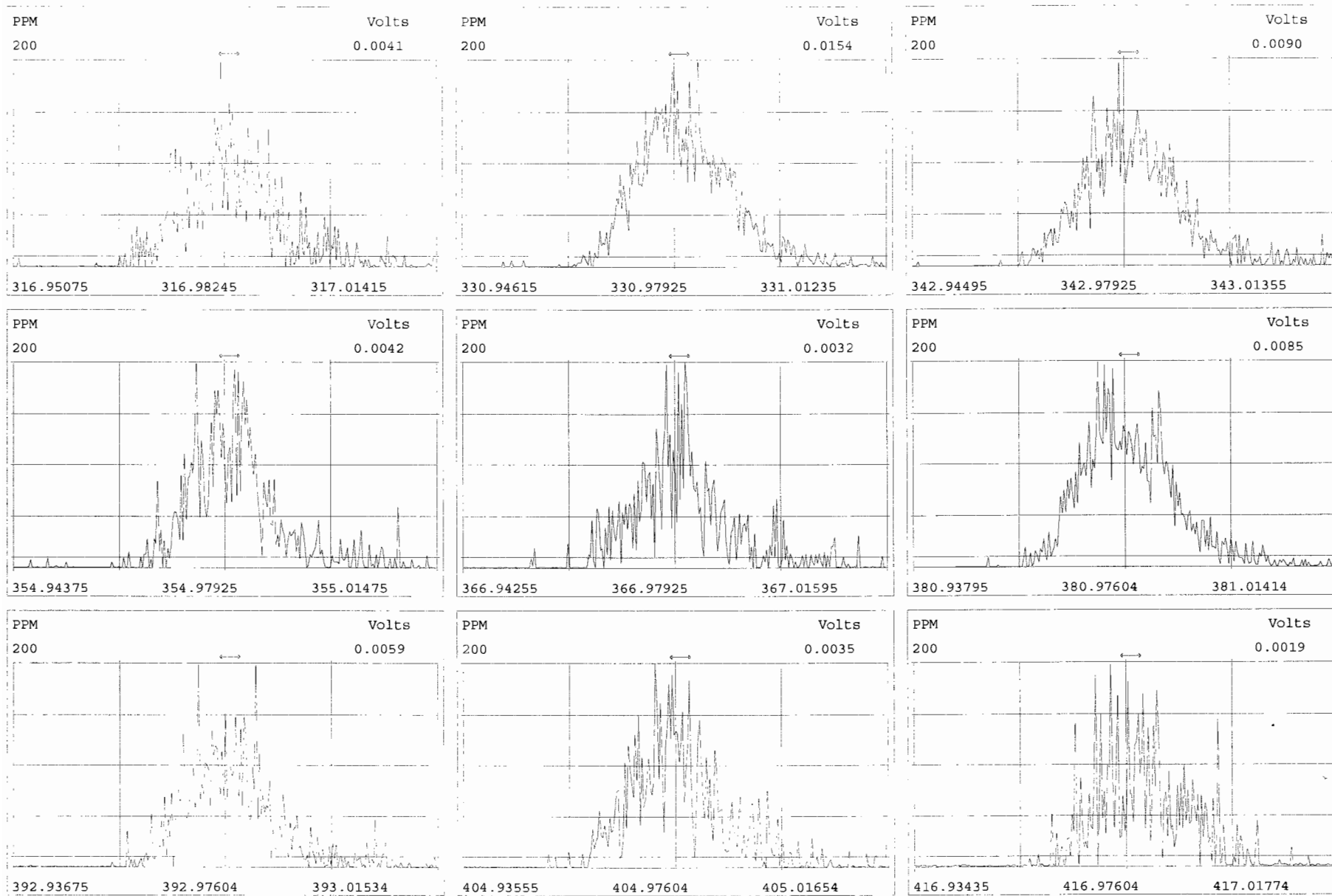
Peak Locate Examination:10-OCT-2019:06:40 File:RES\_CHECK

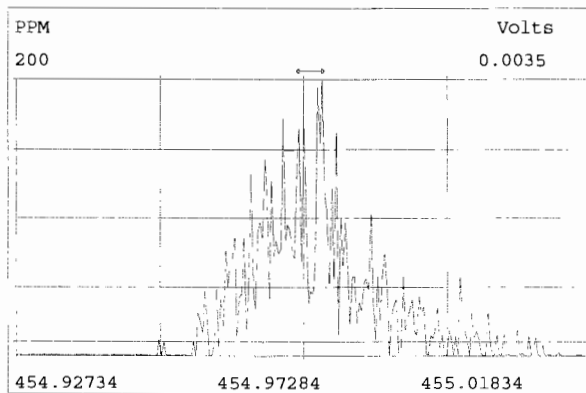
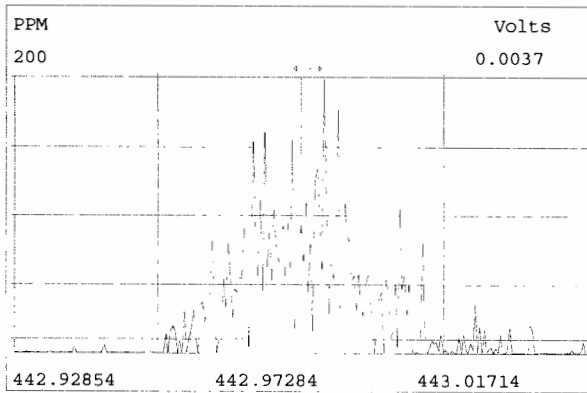
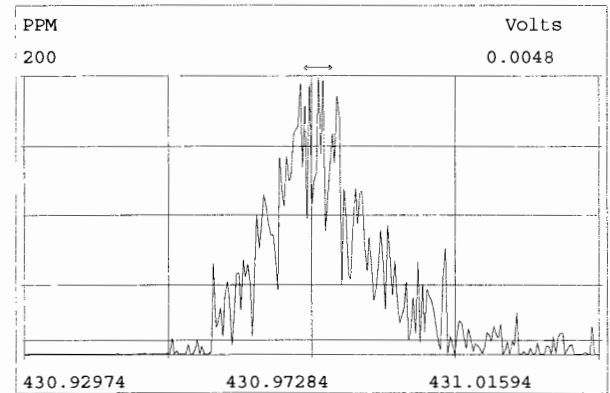
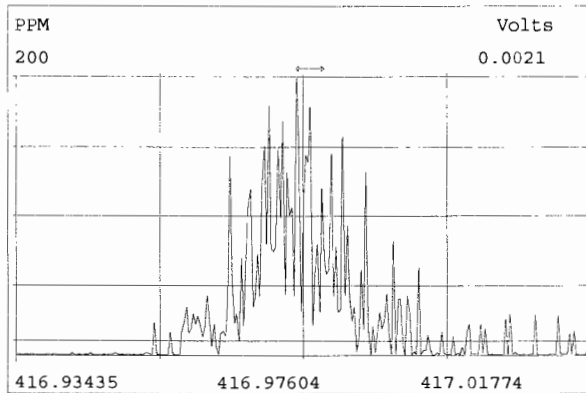
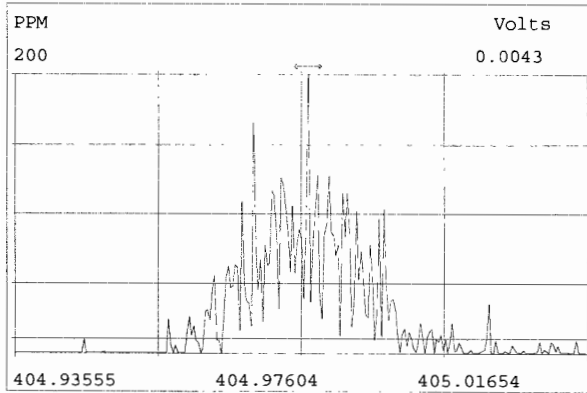
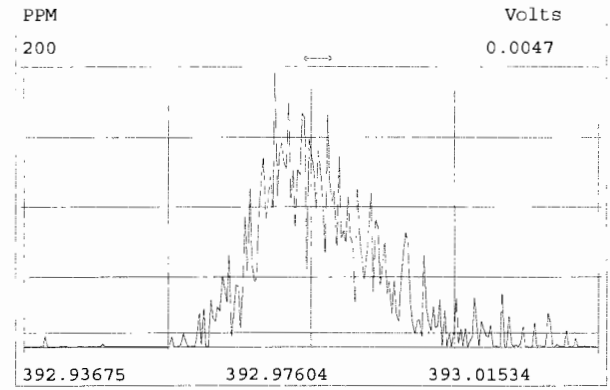
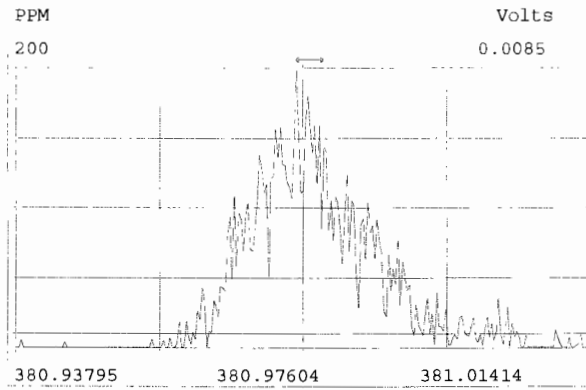
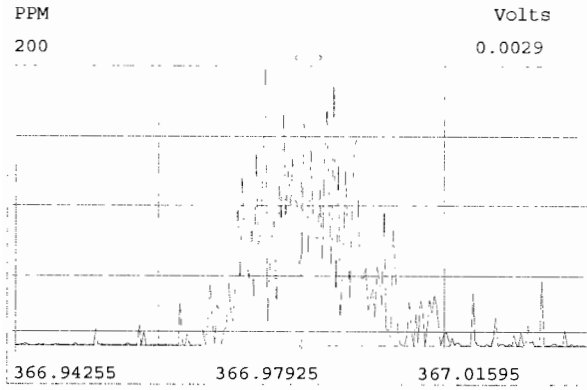
Experiment:OCDD\_DB5 Function:1 Reference:PFK

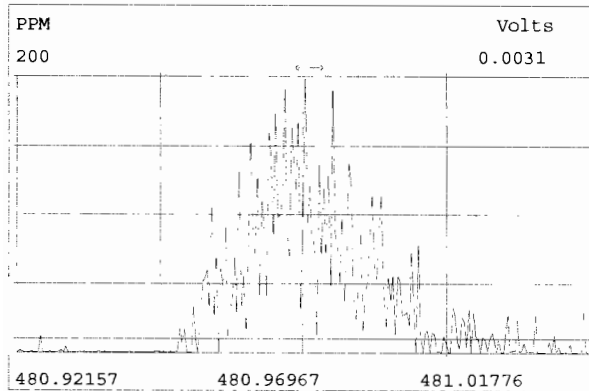
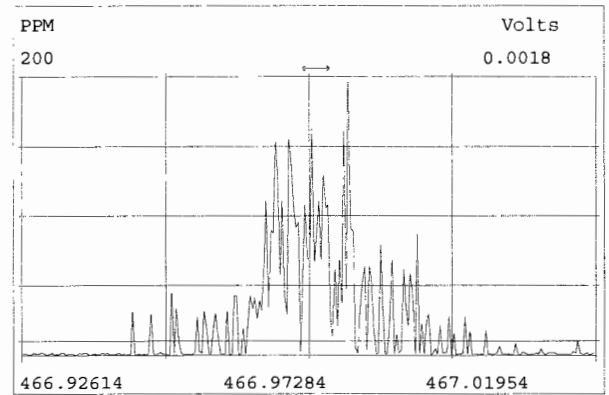
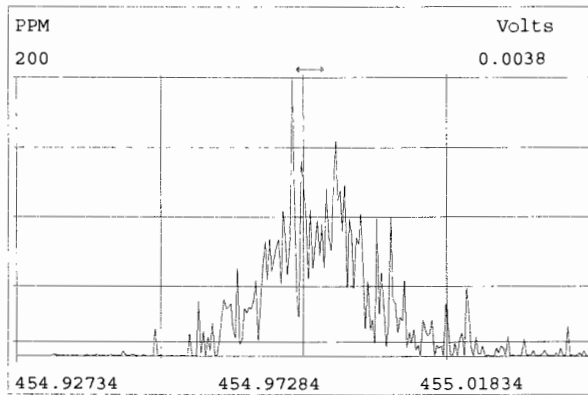
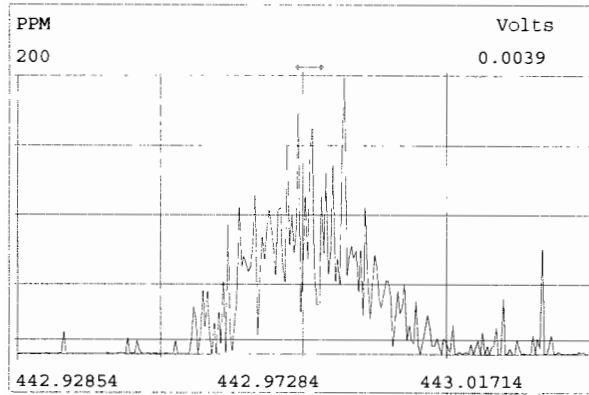
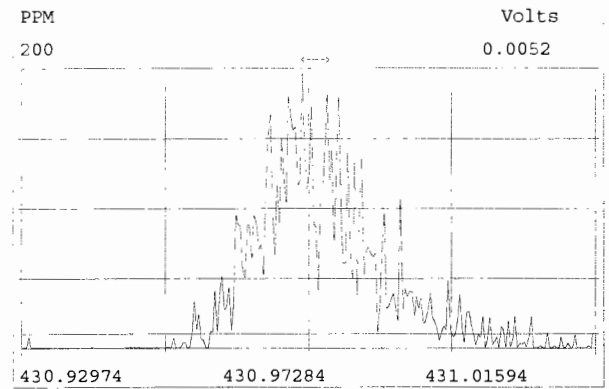
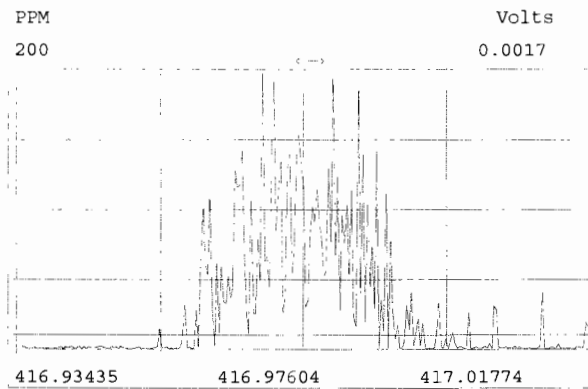
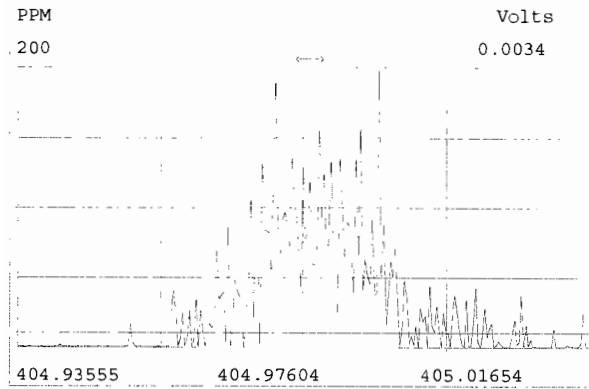


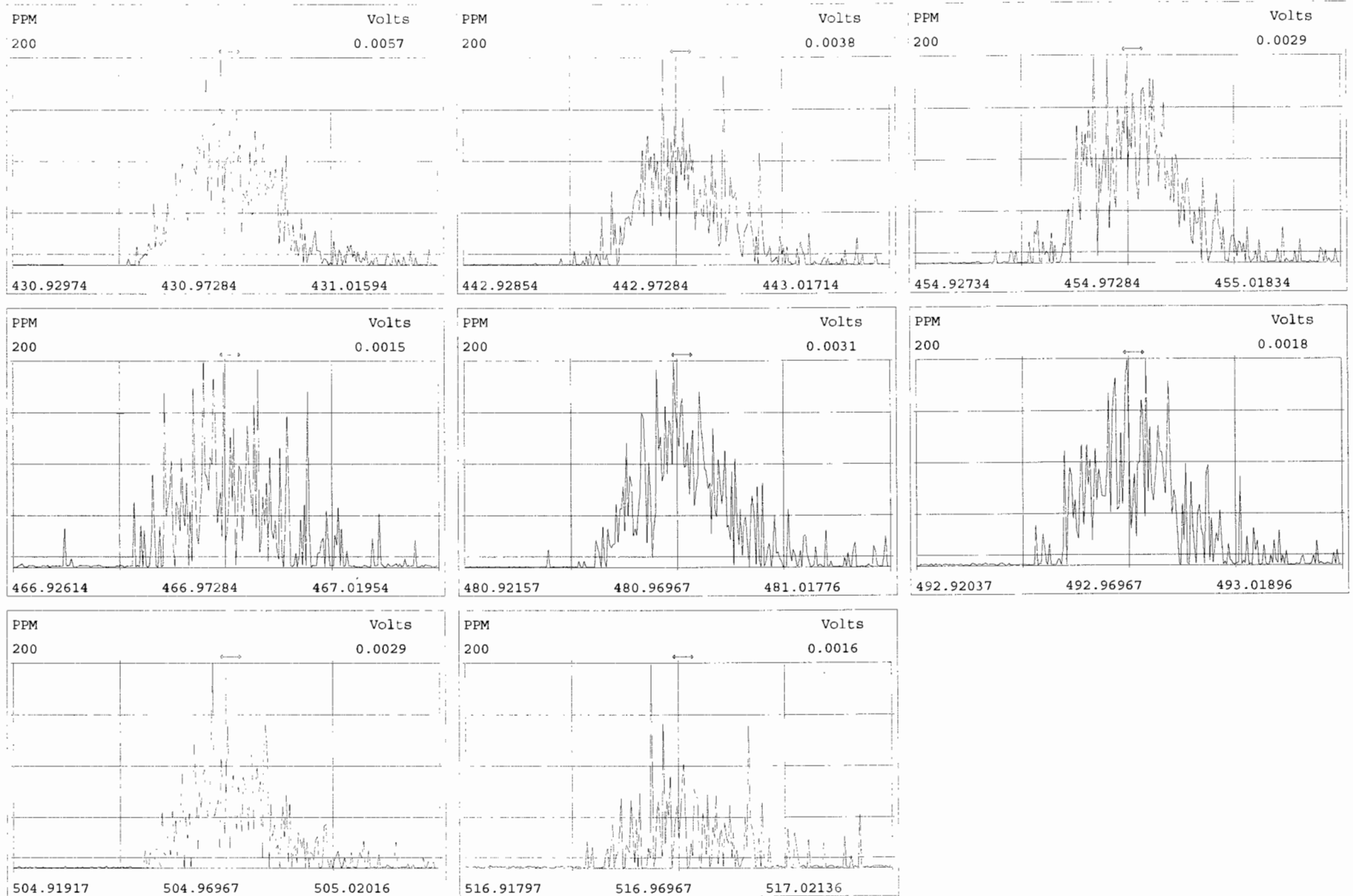
Peak Locate Examination:10-OCT-2019:06:41 File:RES\_CHECK

Experiment:OCDD\_DB5 Function:2 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)		FOUND	(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

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	0.72	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

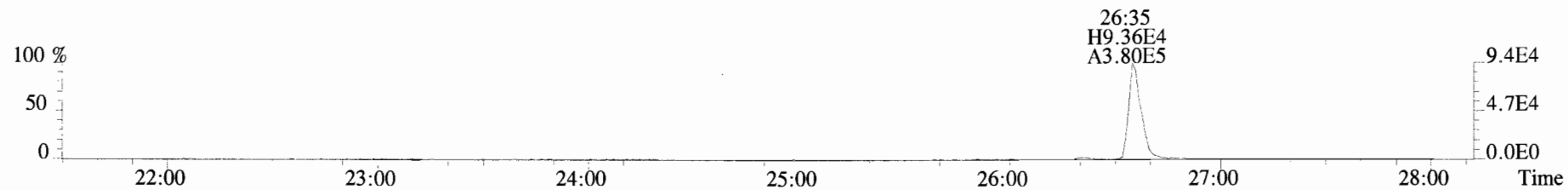
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ConCal: ST191009D1-4  
EndCAL: NA

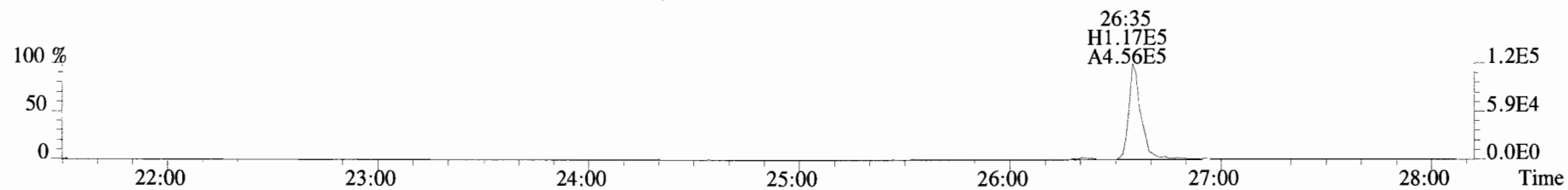
Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	8.36e+05	0.83 y	0.91	26:36	10.234		* 2.5		*	Total Tetra-Dioxins	10.4	11.4		*	*
1,2,3,7,8-PeCDD	3.38e+06	0.63 y	0.90	30:57	51.323		* 2.5		*	Total Penta-Dioxins	51.4	51.7		*	*
1,2,3,4,7,8-HxCDD	2.55e+06	1.31 y	1.10	34:18	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				90.8					
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 Reviewed  
by DB by  
Analyst: DB Analyst: CT  
Date: 10/10/19 Date: 10/10/19

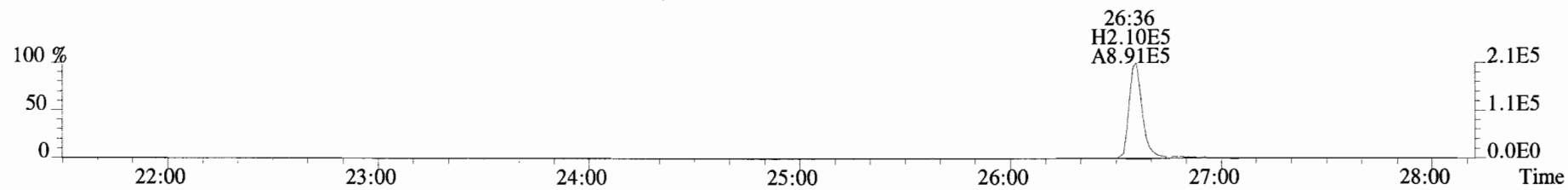
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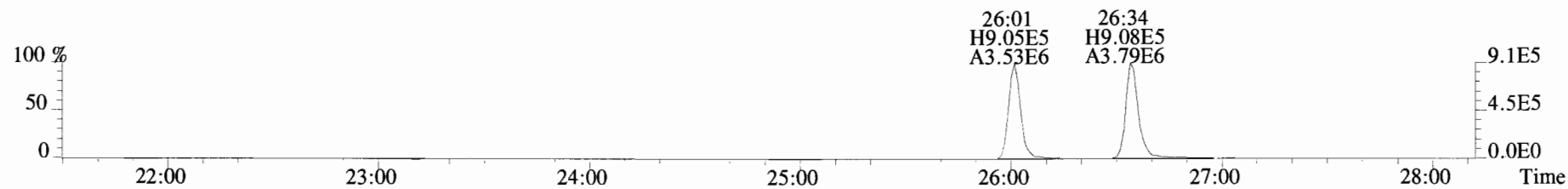
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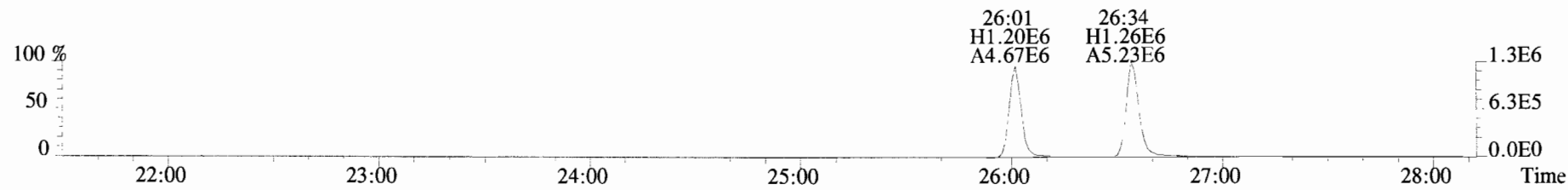
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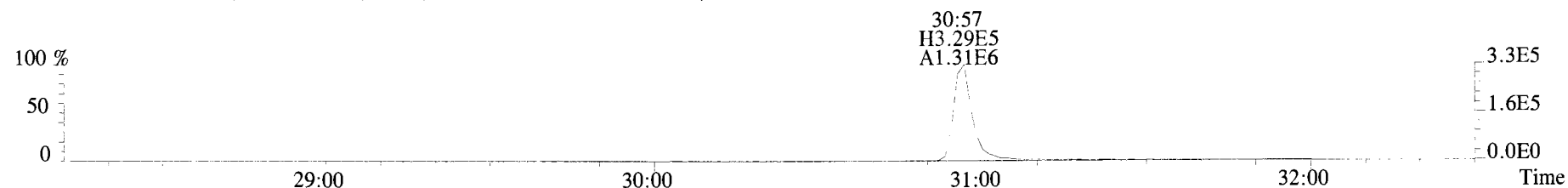
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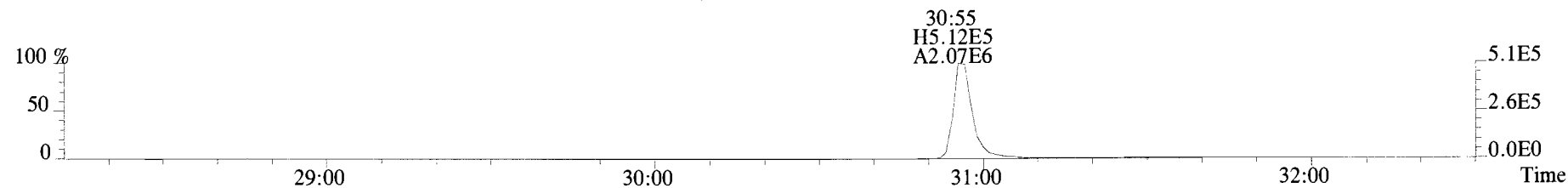
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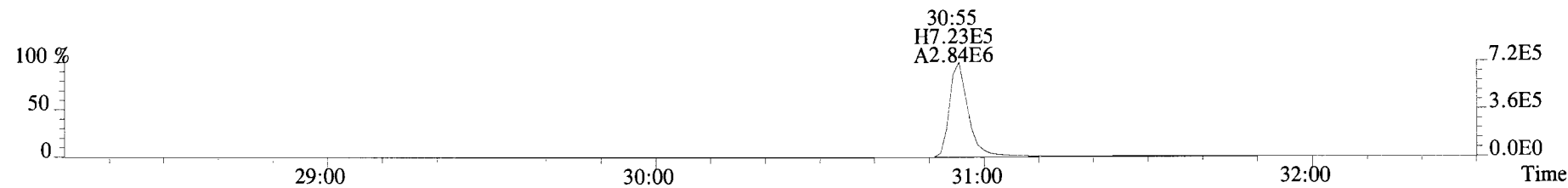
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353.8576 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



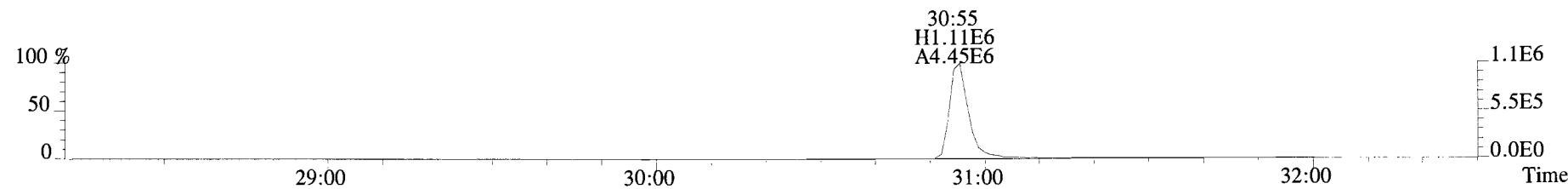
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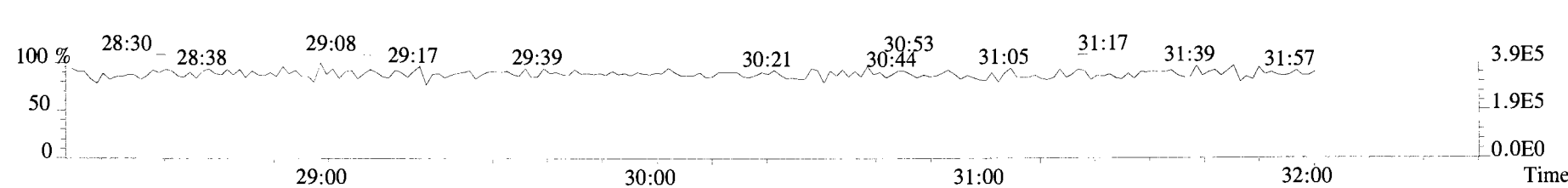
365.8978 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



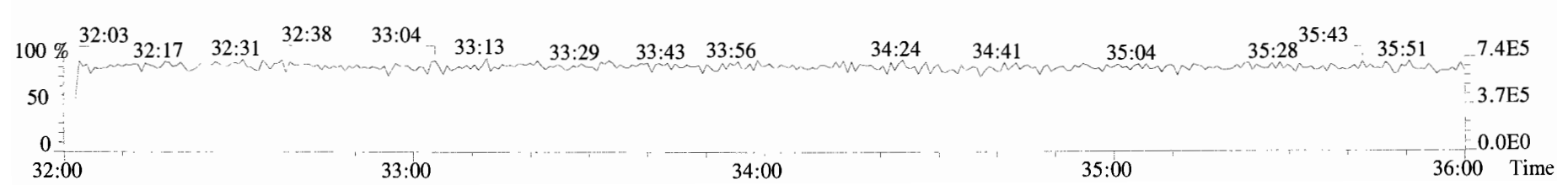
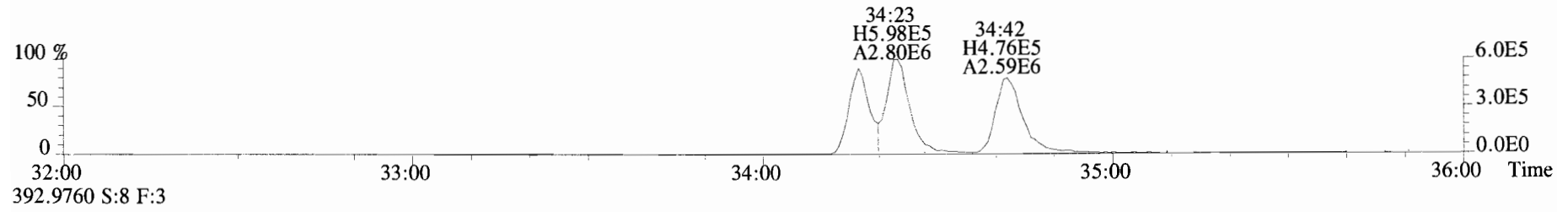
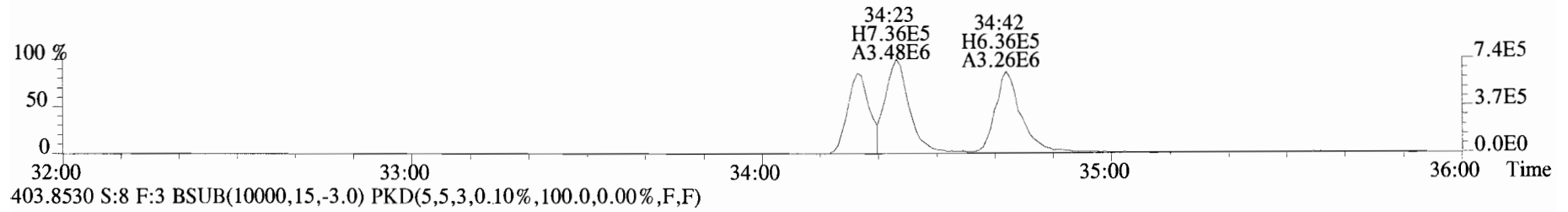
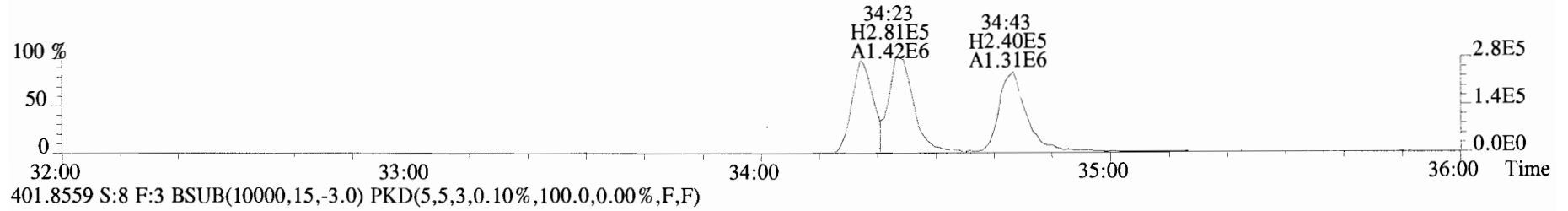
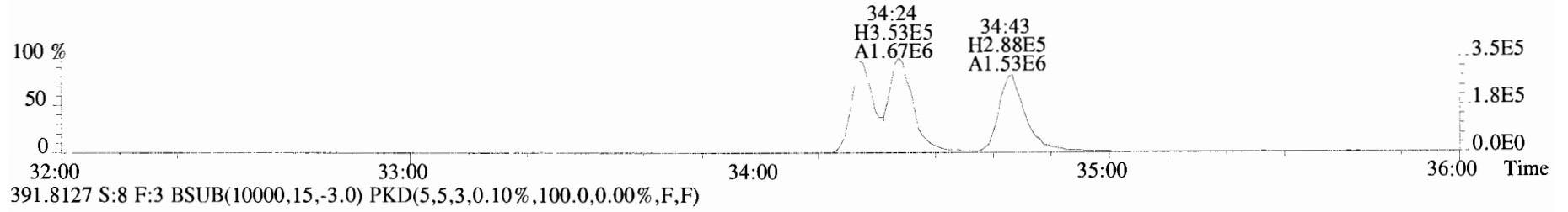
367.8949 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



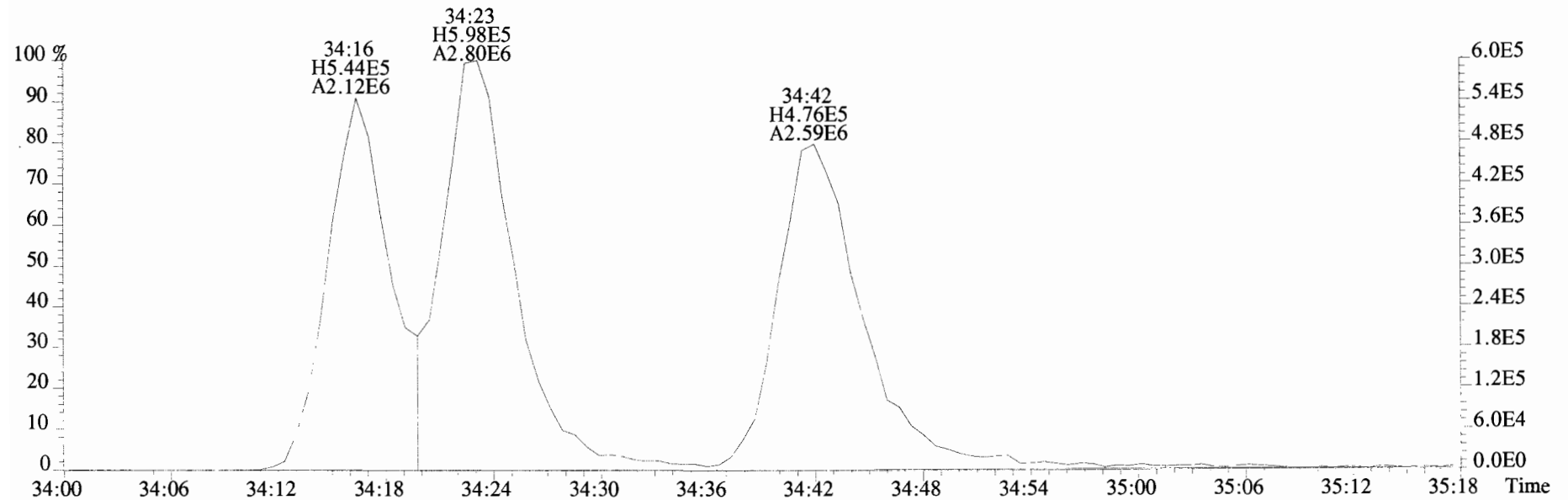
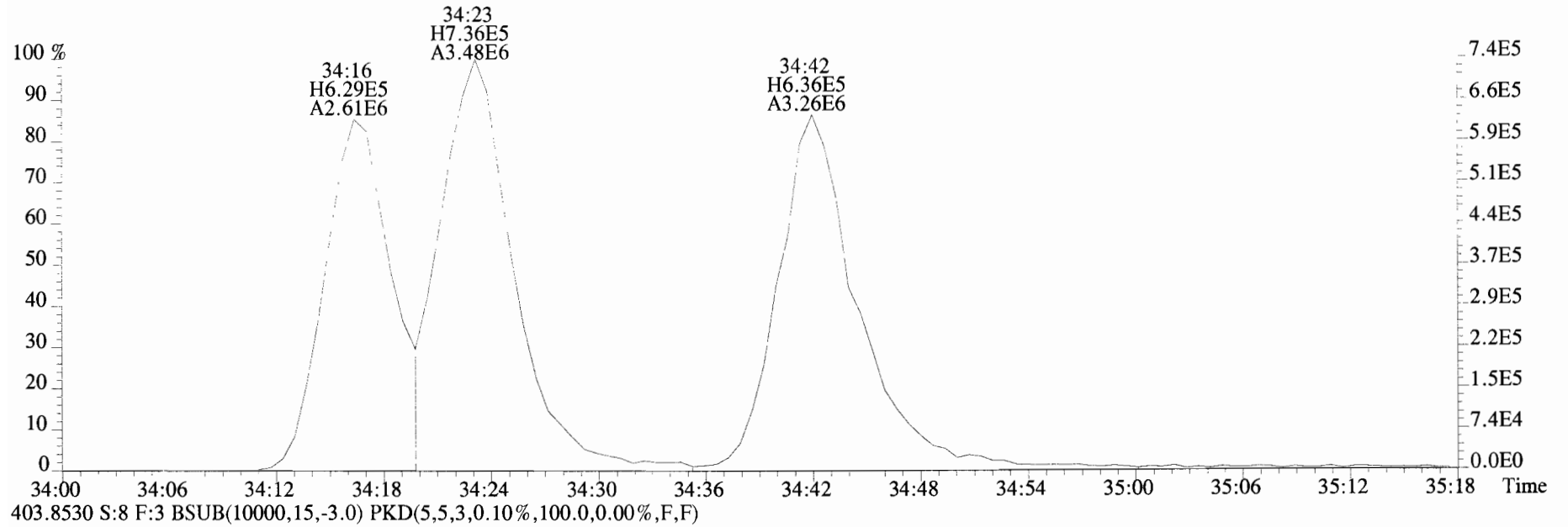
366.9792 S:8 F:2



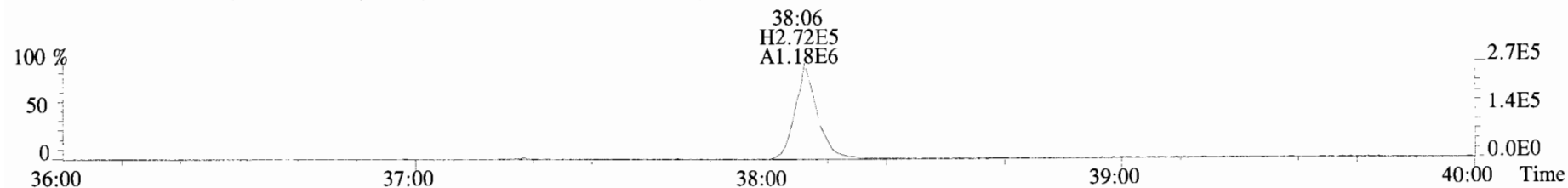
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Sample#8 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



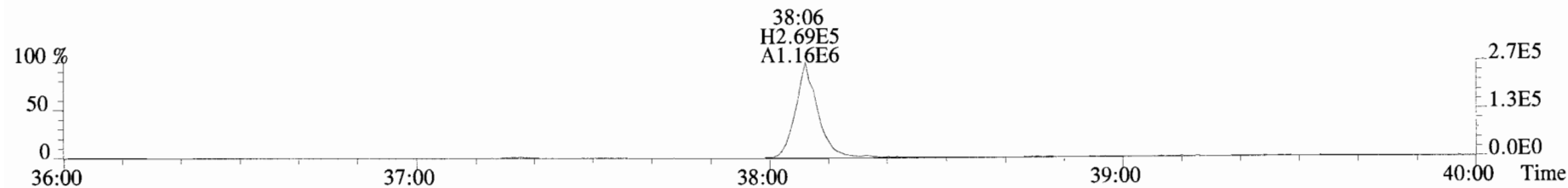
File:191009D1 #1-355 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



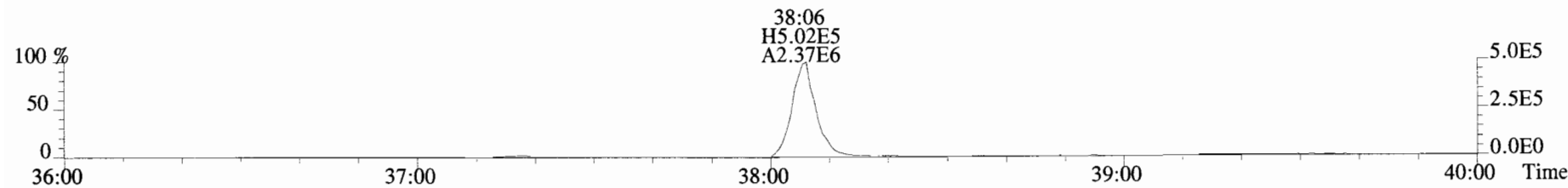
File:191009D1 #1-356 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



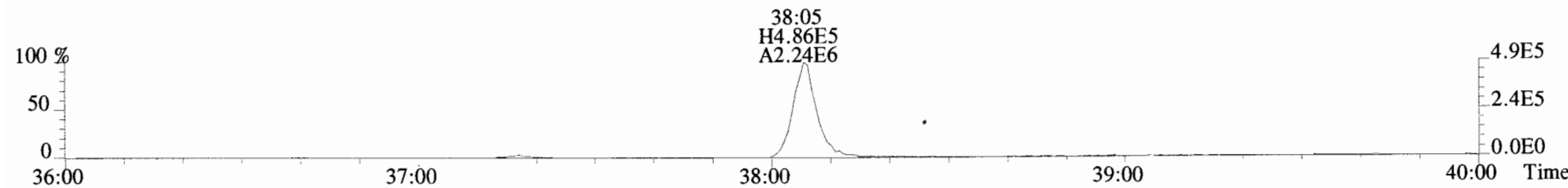
425.7737 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



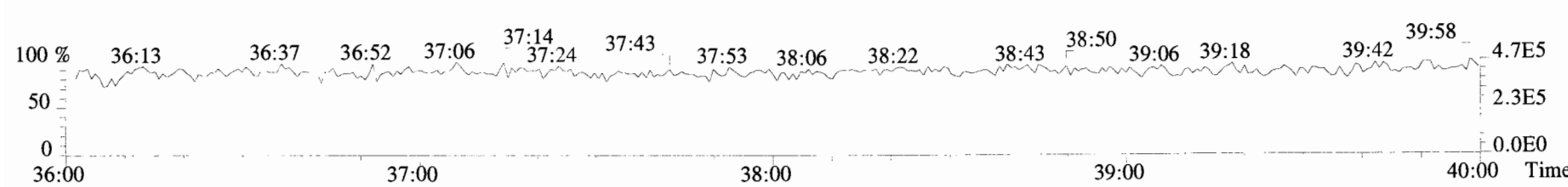
435.8169 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



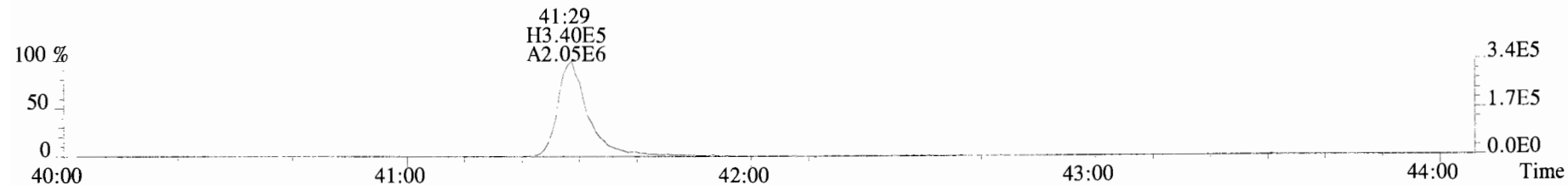
437.8140 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



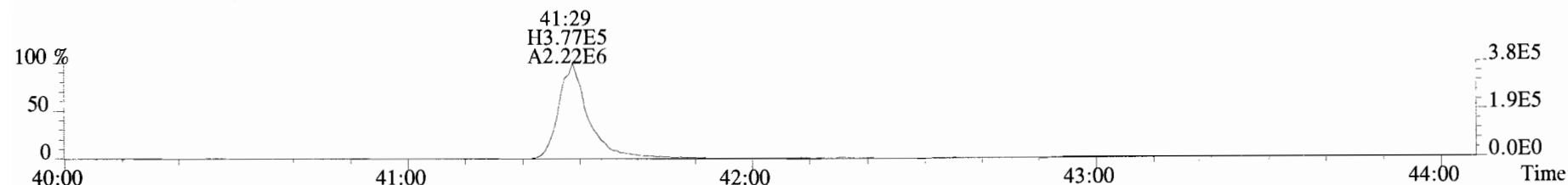
454.9728 S:8 F:4



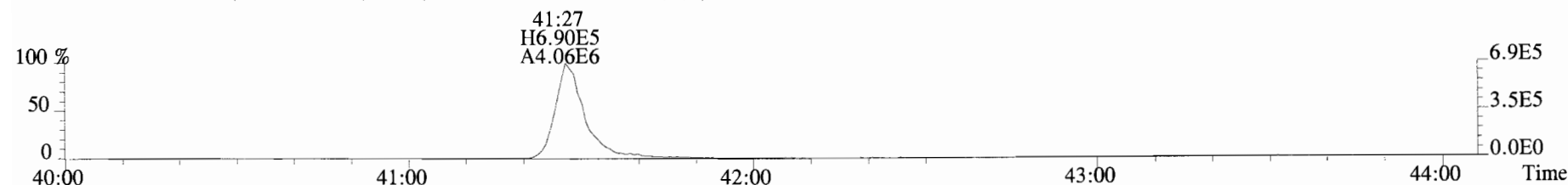
File:191009D1 #1-431 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



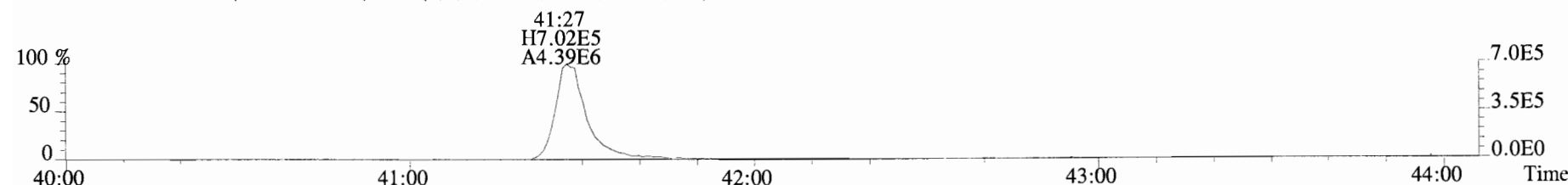
459.7348 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



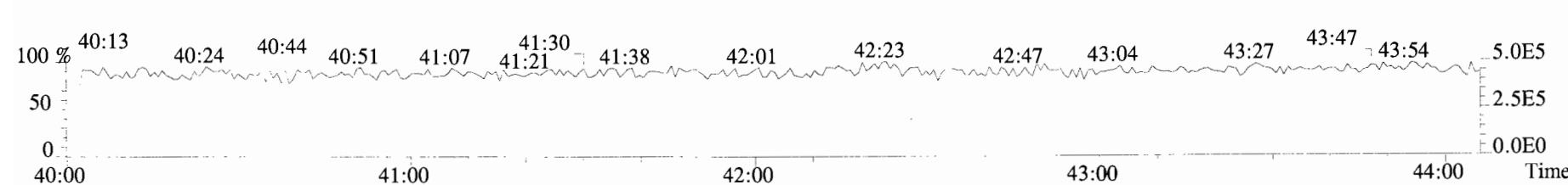
469.7780 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



471.7750 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

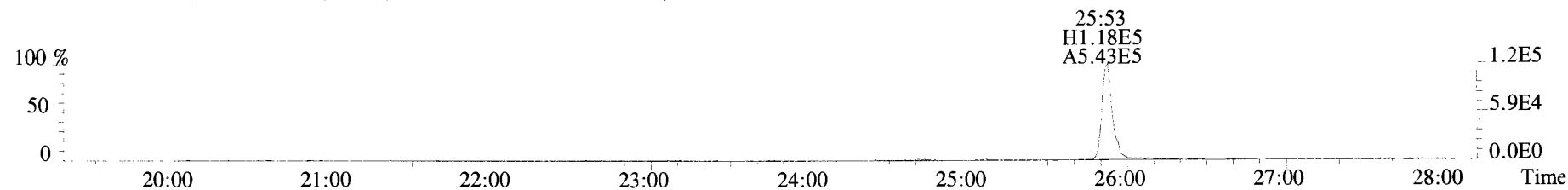


454.9728 S:8 F:5

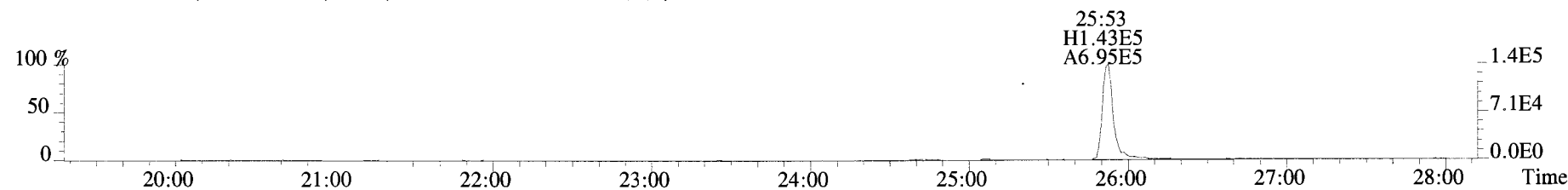




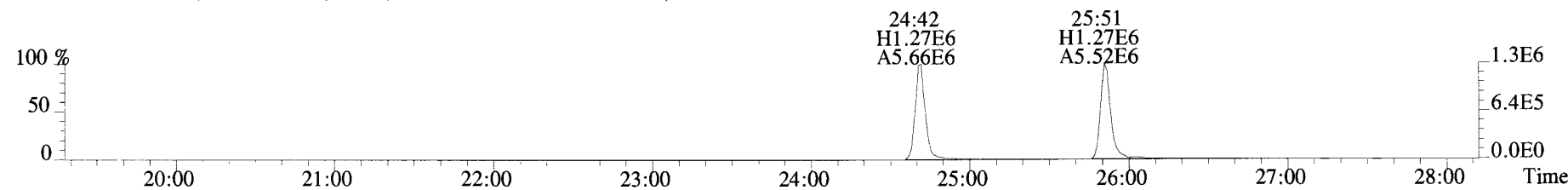
File:191009D1 #1-514 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text: Vista Analytical Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



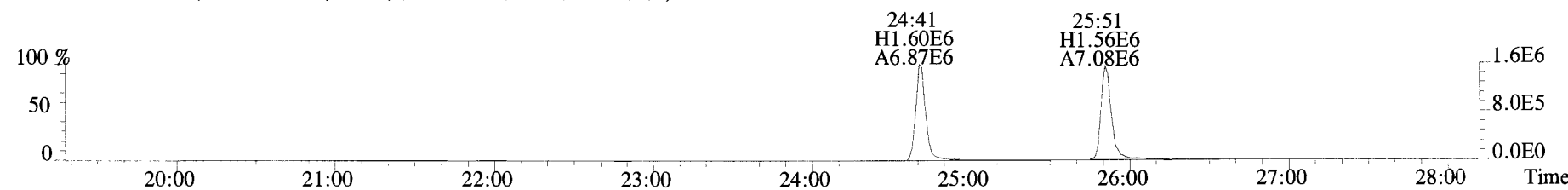
305.8987 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



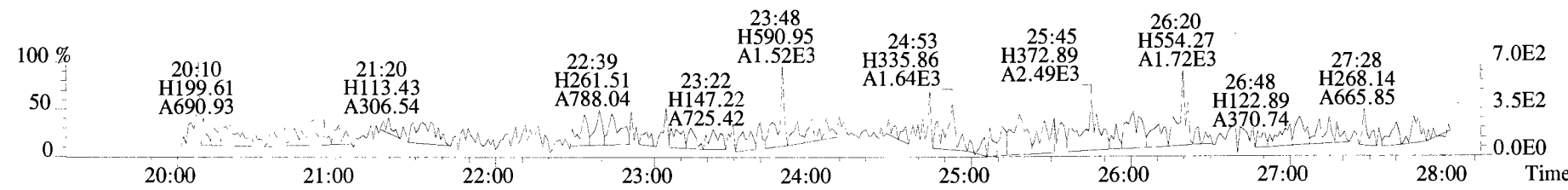
315.9419 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



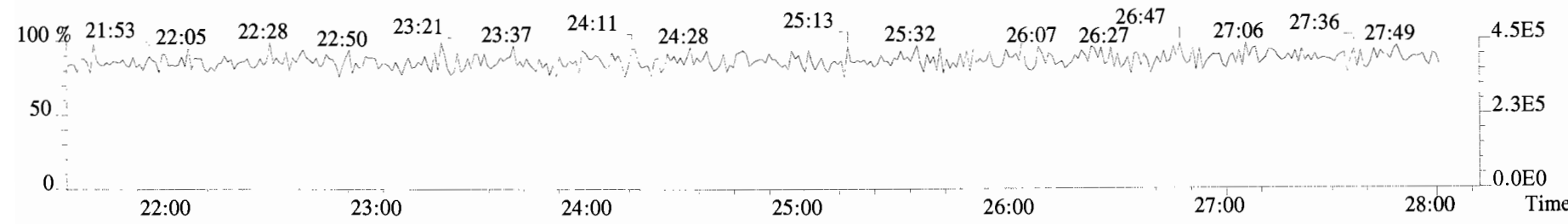
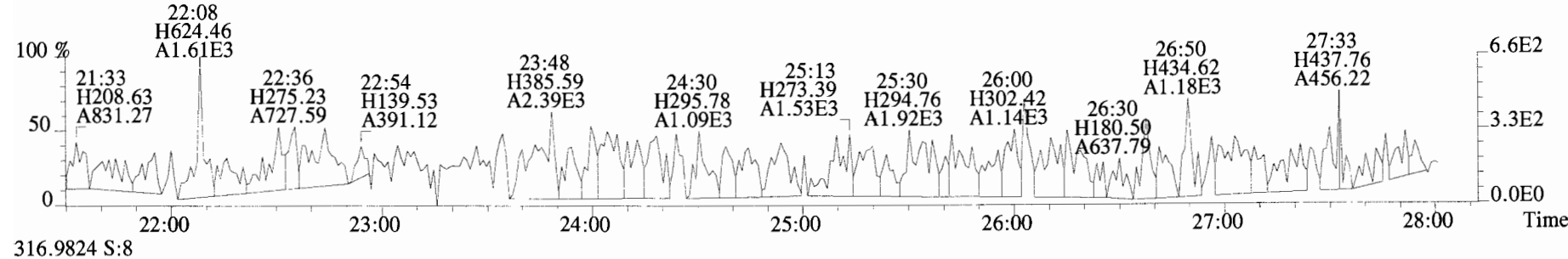
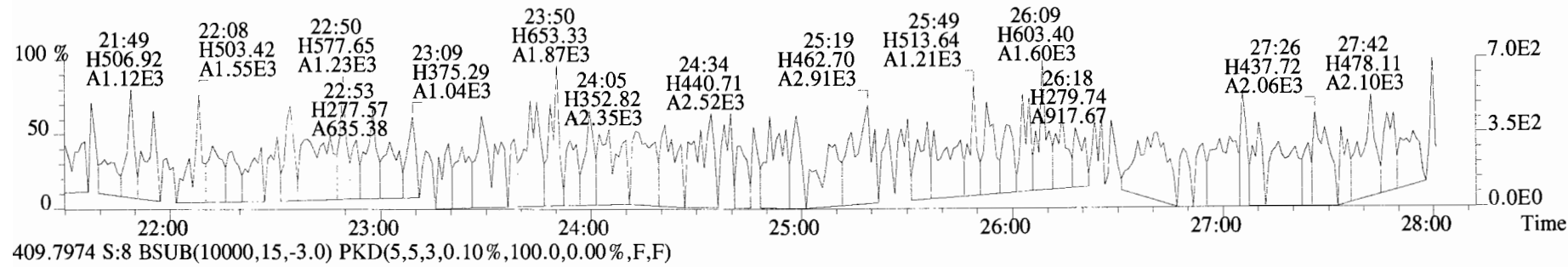
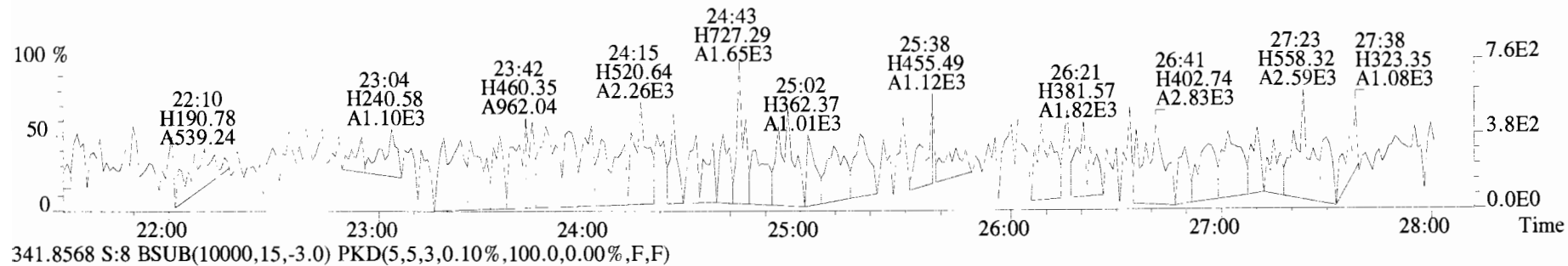
317.9389 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



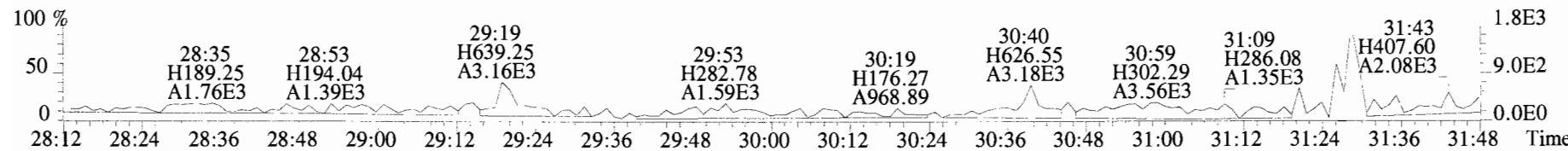
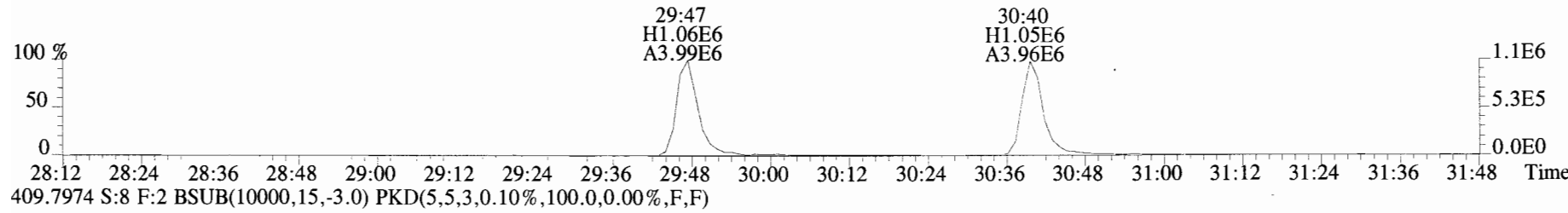
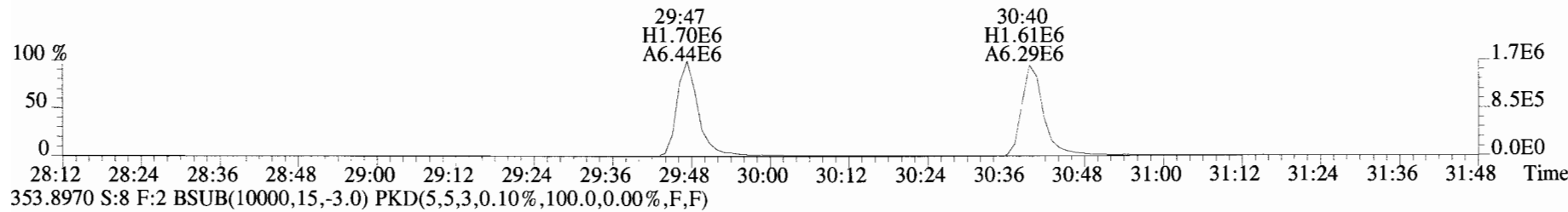
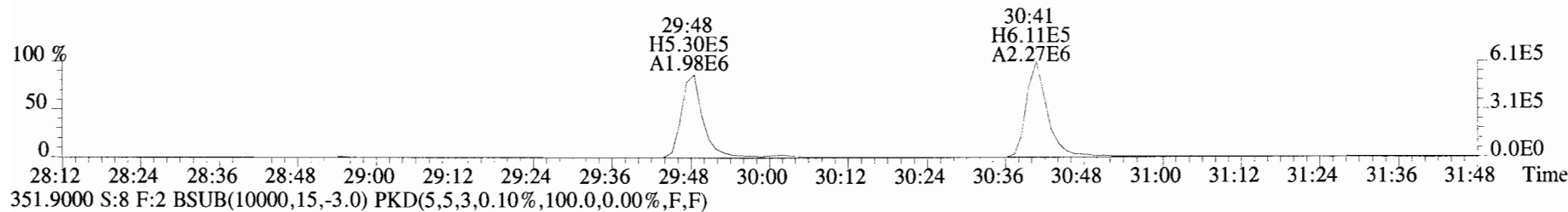
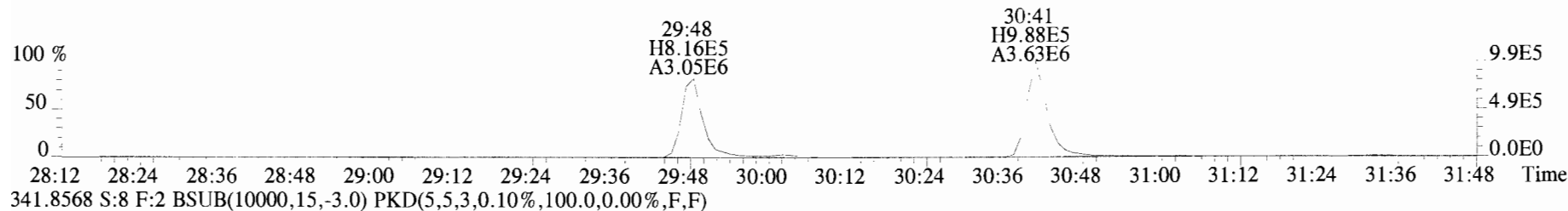
375.8364 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



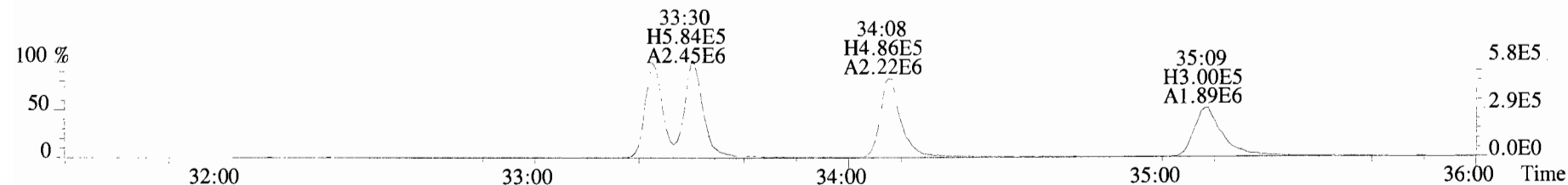
File:191009D1 #1-514 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#8 File Text:Vista Analytical Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
 339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



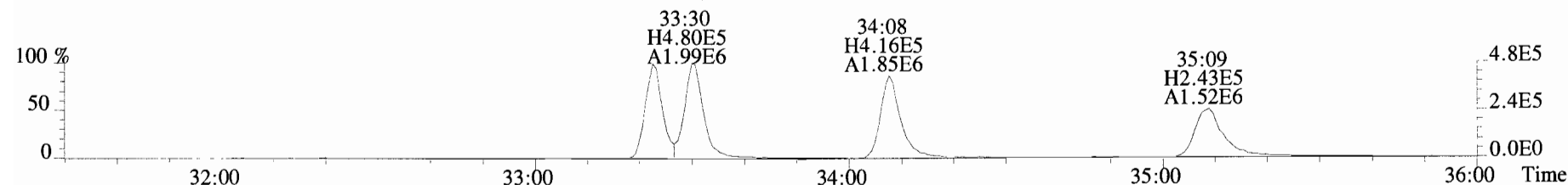
File:191009D1 #1-210 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#8 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
 339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



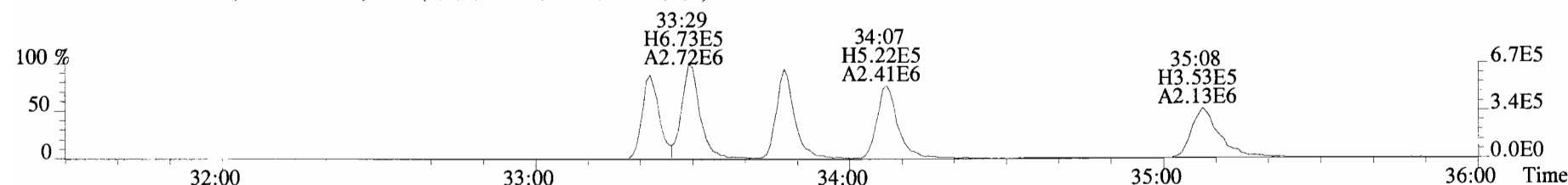
File:191009D1 #1-355 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#8 File Text:Vista\_Analytical\_Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
 373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



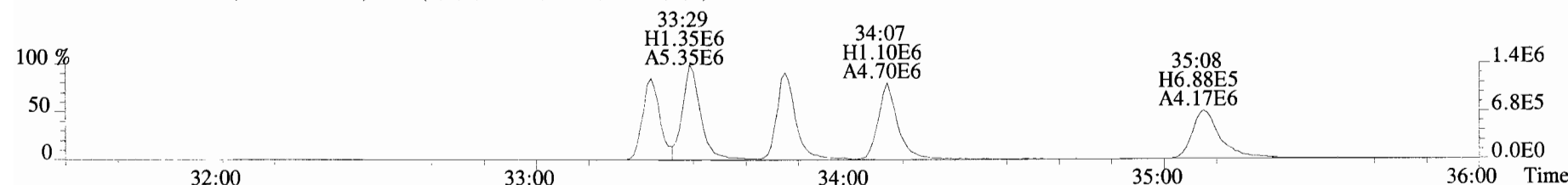
375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



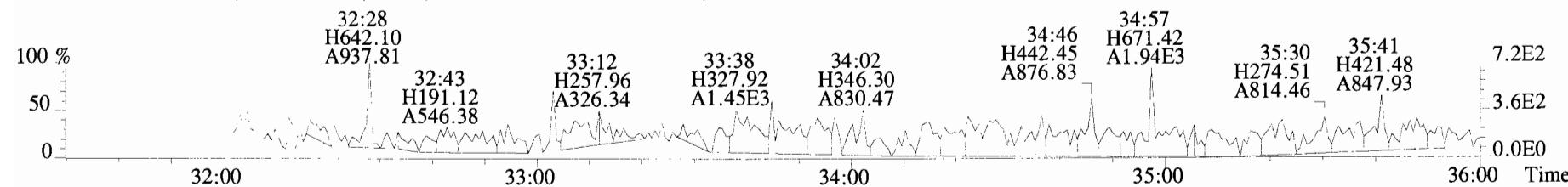
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



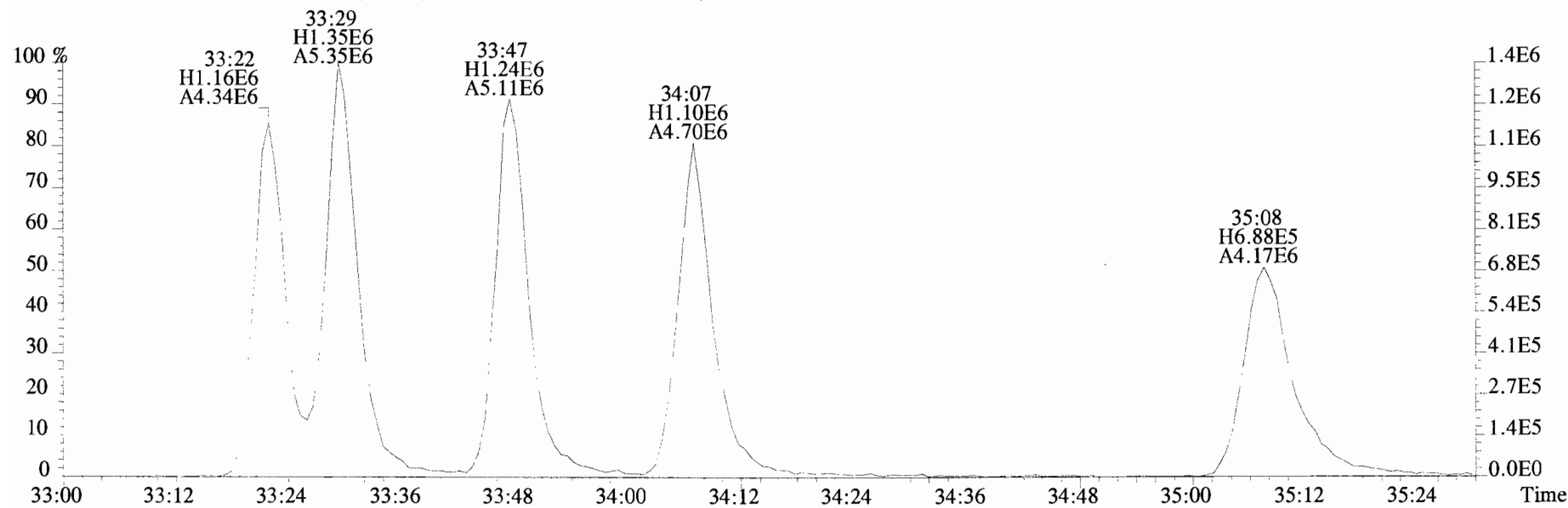
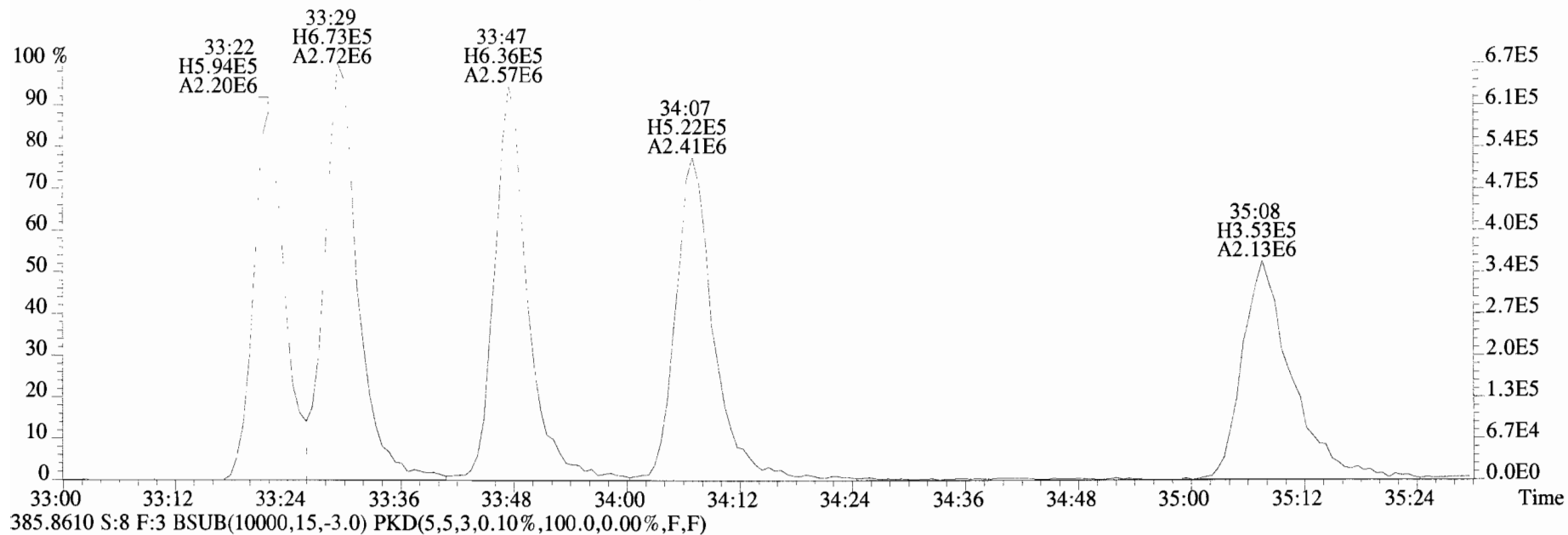
385.8610 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



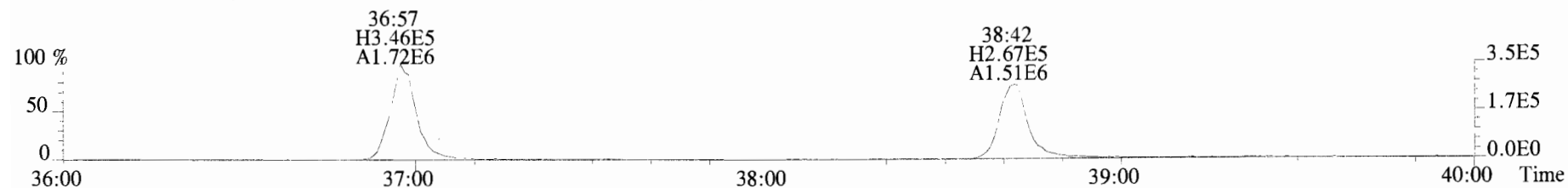
445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



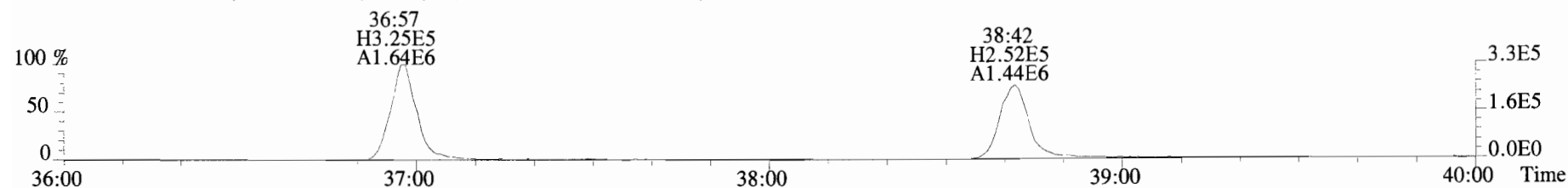
File:191009D1 #1-355 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



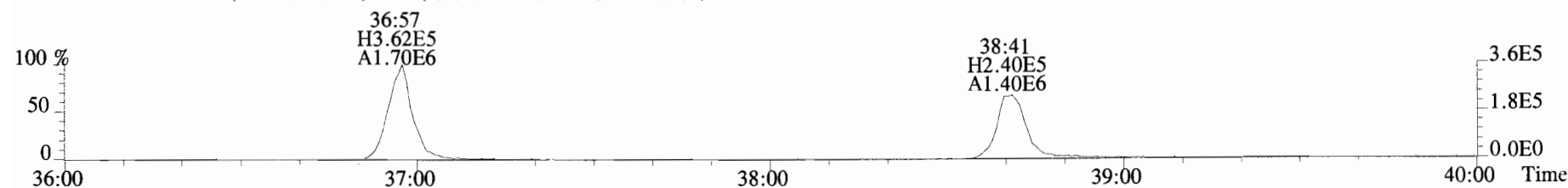
File:191009D1 #1-356 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory\_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD\_DB5  
407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



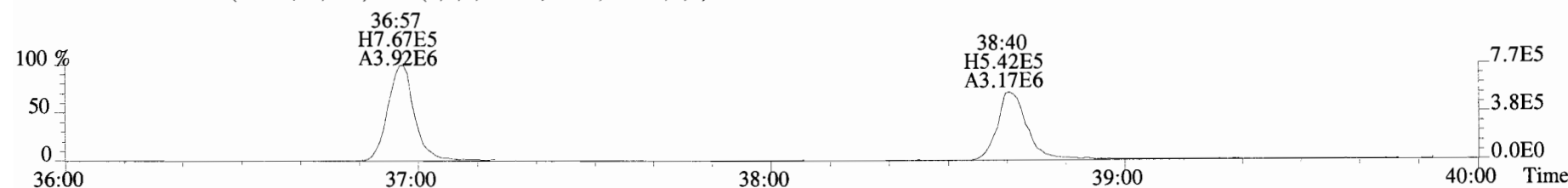
409.7788 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



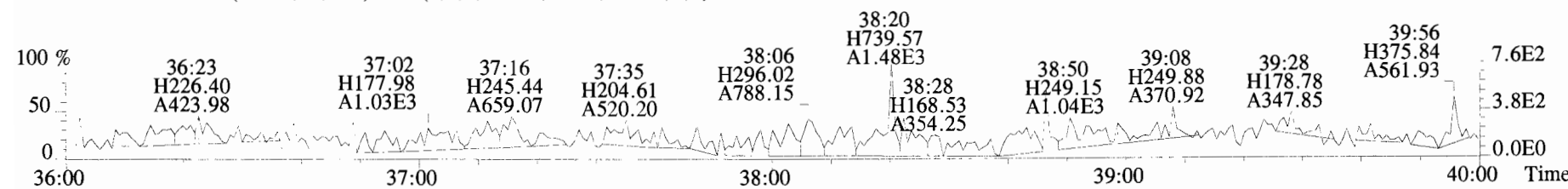
417.8253 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



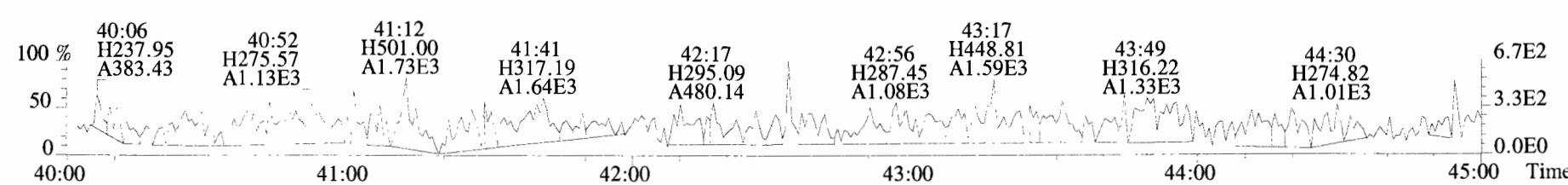
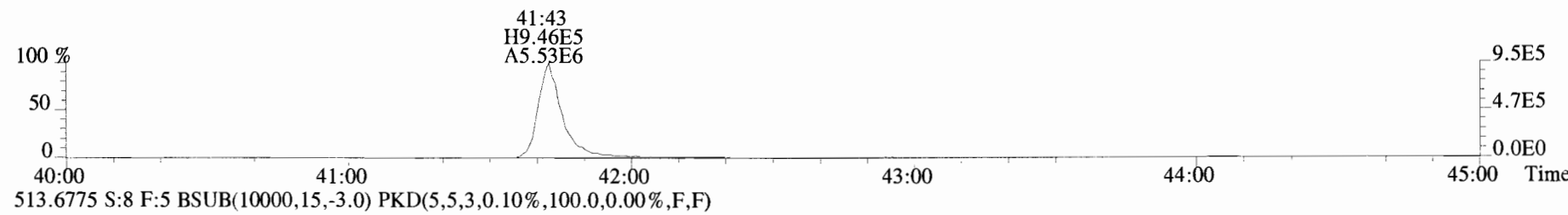
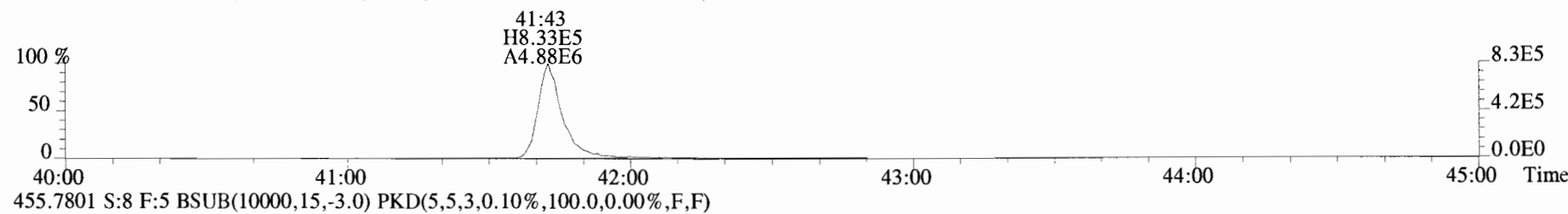
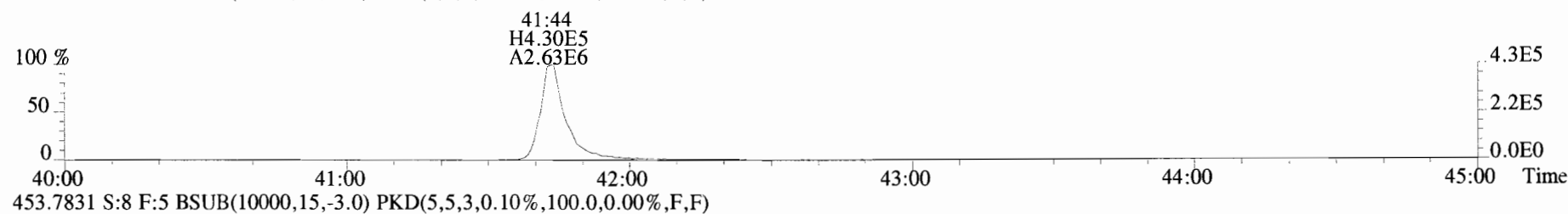
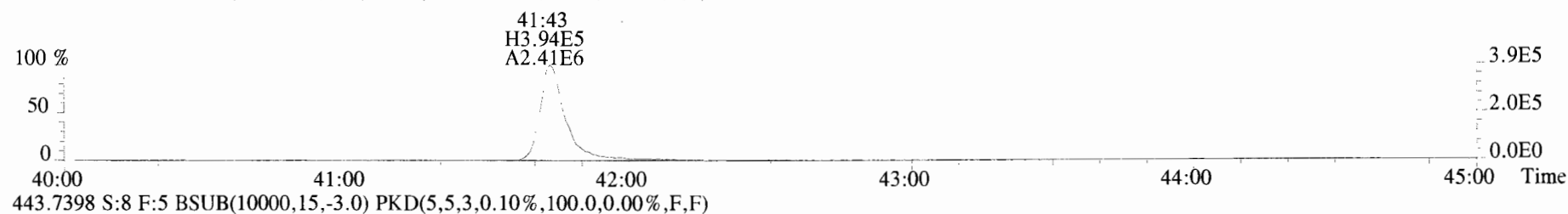
419.8220 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



479.7165 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)



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

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: 1,2,3,7,8,9-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

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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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

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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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

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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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

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

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-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

Last Altered: Wednesday, May 08, 2019 7:55:45 AM Pacific Daylight Time

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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

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

Last Altered: Wednesday, May 08, 2019 7:55:45 AM Pacific Daylight Time

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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

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

Last Altered: Wednesday, May 08, 2019 7:55:45 AM Pacific Daylight Time

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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

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

Last Altered: Wednesday, May 08, 2019 7:55:45 AM Pacific Daylight Time

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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  
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**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



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

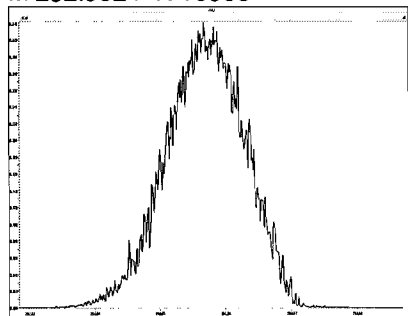
	Name	ID	Acq Date	Acq Time
1	190507K1_1	ST190507K1_1 1613 CS3 18J1008	07-May-19	10:05:54
2	190507K1_2	ST190507K1_2 1613 CS0 19C2201	07-May-19	11:18:22
3	190507K1_3	ST190507K1_3 1613 CS3 19C2204	07-May-19	12:16:36
4	190507K1_4	ST190507K1_4 1613 CS1 19C2202	07-May-19	13:04:59
5	190507K1_5	ST190507K1_5 1613 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

(A) not used, used to get windows  
in new column the 5-8-19

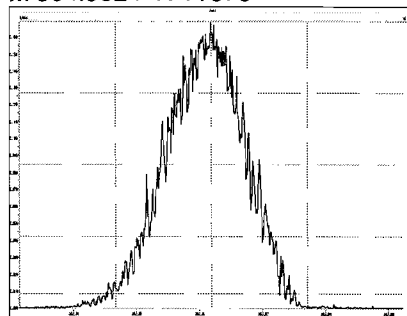
File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, May 07, 2019 11:13:04 Pacific Daylight Time

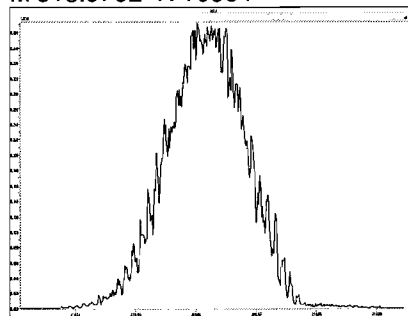
M 292.9824 R 10968



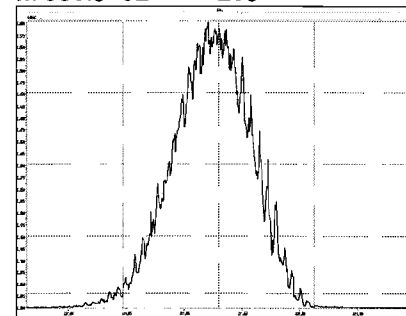
M 304.9824 R 11575



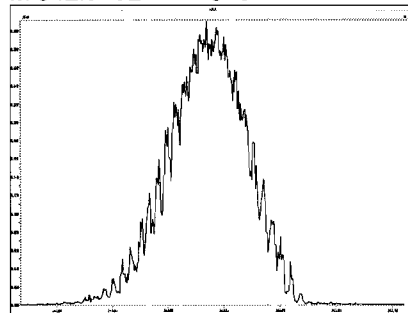
M 318.9792 R 10964



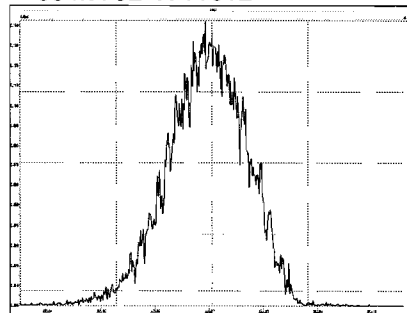
M 330.9792 R 11209



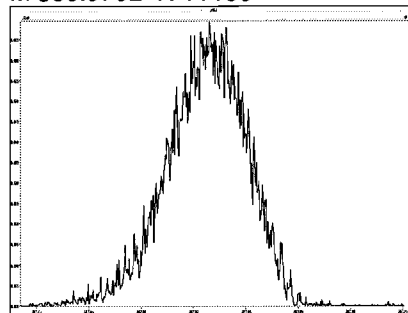
M 342.9792 R 11570



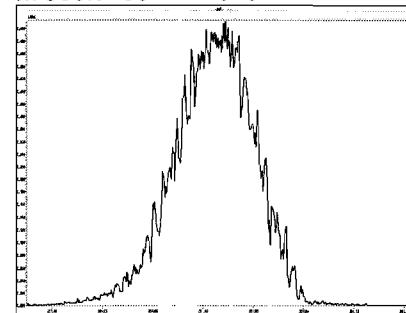
M 354.9792 R 11312



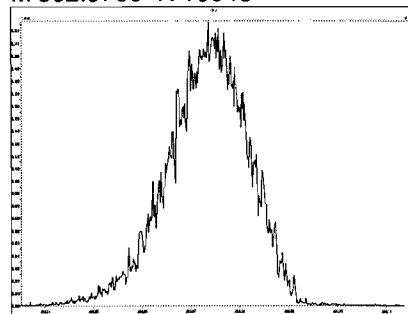
M 366.9792 R 11159



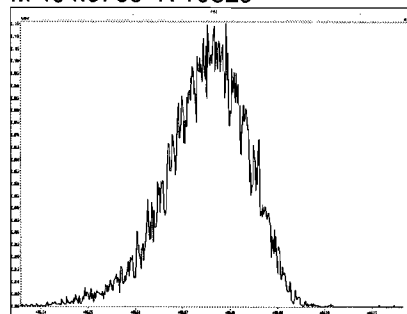
M 380.9760 R 11010



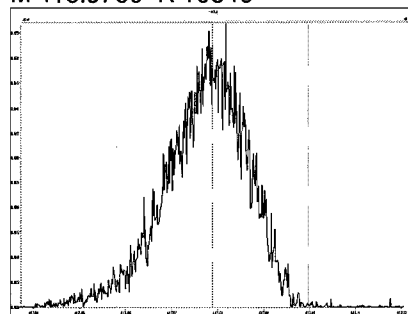
M 392.9760 R 10548



M 404.9760 R 10329



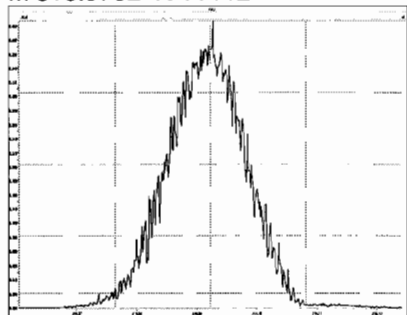
M 416.9760 R 10546



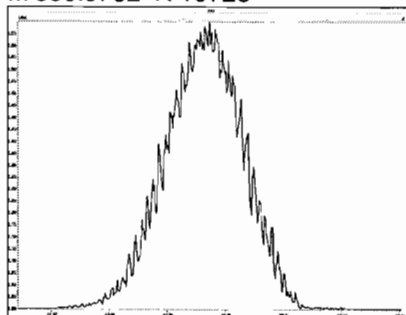
File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, May 07, 2019 11:13:43 Pacific Daylight Time

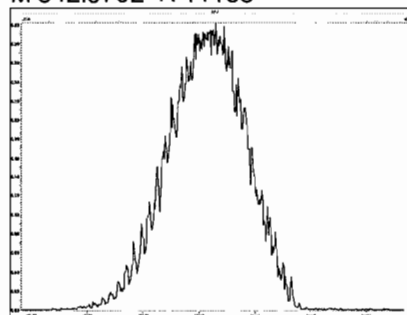
M 318.9792 R 11112



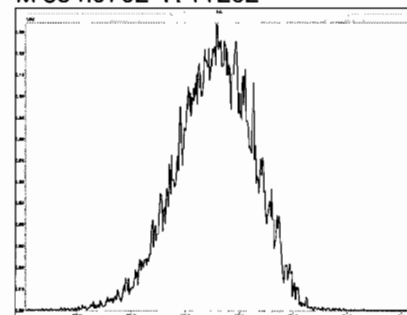
M 330.9792 R 10728



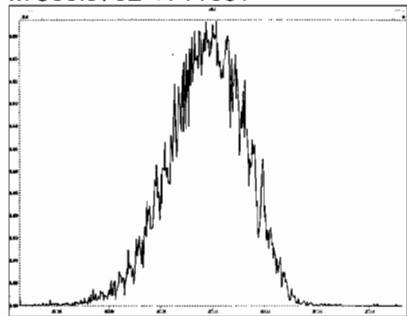
M 342.9792 R 11158



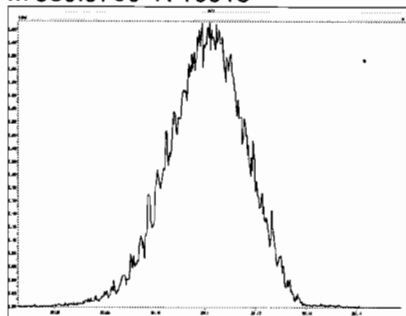
M 354.9792 R 11262



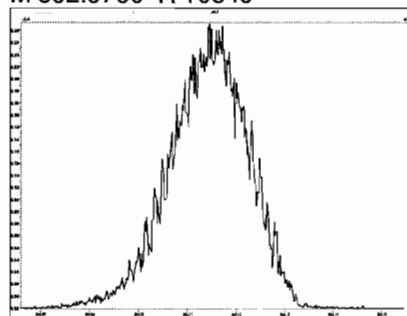
M 366.9792 R 11681



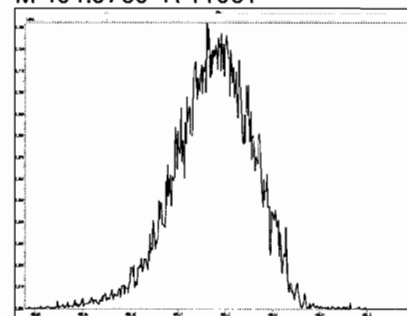
M 380.9760 R 10915



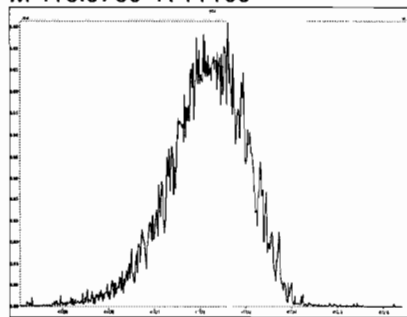
M 392.9760 R 10549



M 404.9760 R 11061



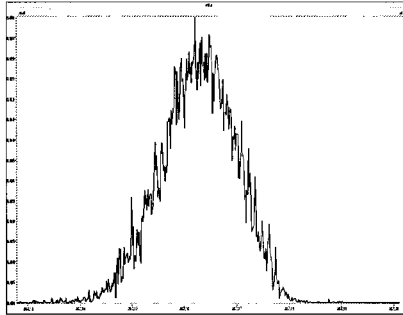
M 416.9760 R 11109



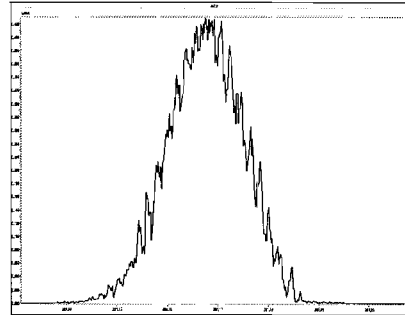
File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, May 07, 2019 11:14:13 Pacific Daylight Time

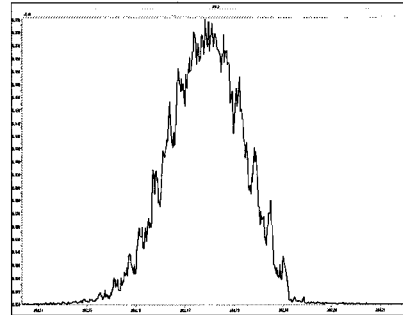
M 366.9792 R 12256



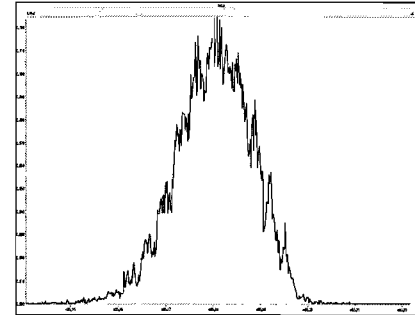
M 380.9760 R 11312



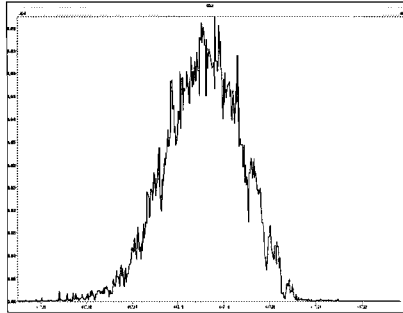
M 392.9760 R 10963



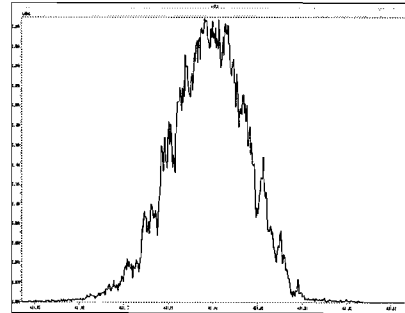
M 404.9760 R 11158



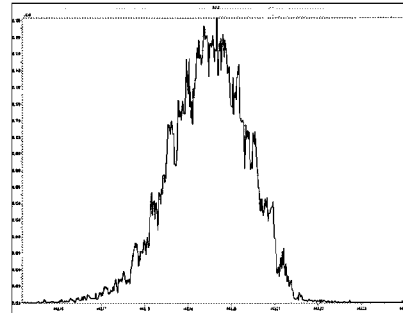
M 416.9760 R 11312



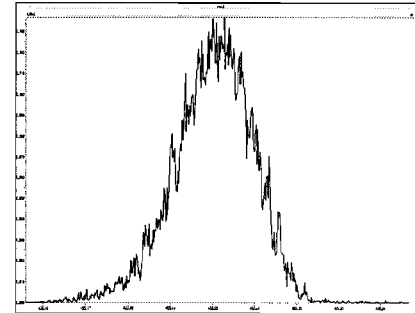
M 430.9728 R 11210



M 442.9728 R 11060



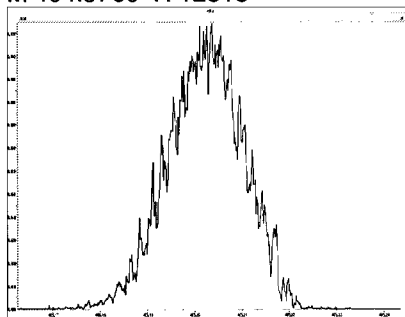
M 454.9728 R 11309



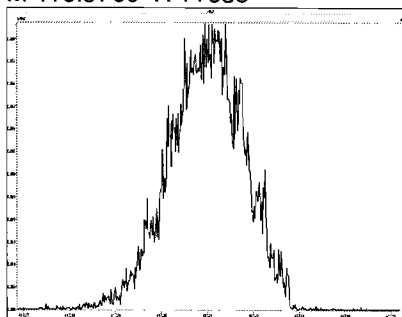
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Printed: Tuesday, May 07, 2019 11:14:57 Pacific Daylight Time

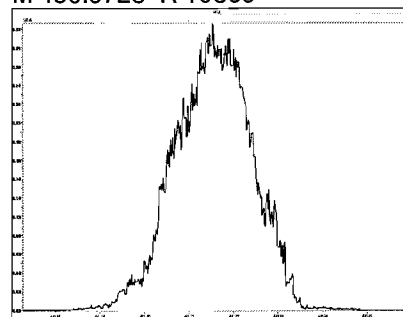
M 404.9760 R 12313



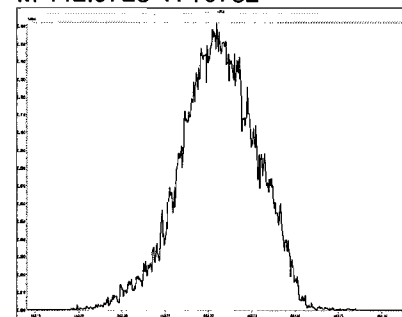
M 416.9760 R 11683



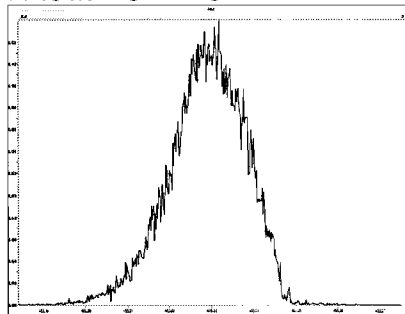
M 430.9728 R 10869



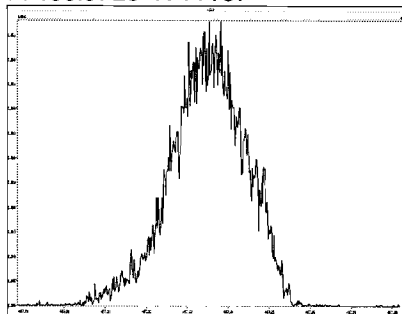
M 442.9728 R 10732



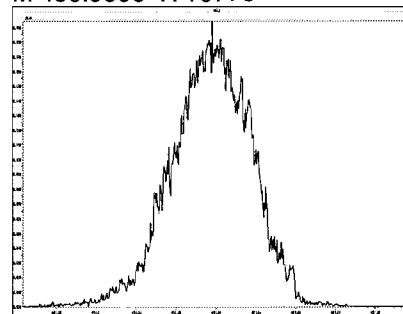
M 454.9728 R 11522



M 466.9728 R 11157



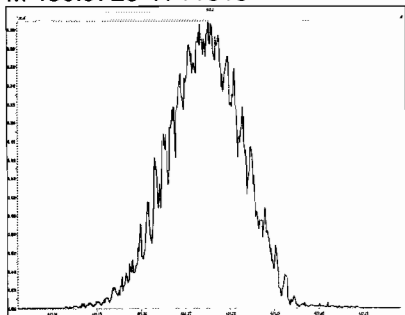
M 480.9696 R 10778



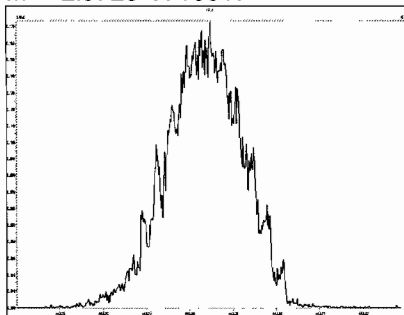
File: Experiment: ocdd\_db5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, May 07, 2019 11:15:30 Pacific Daylight Time

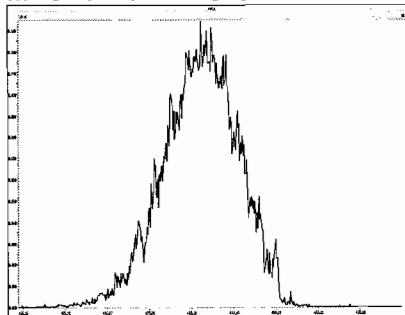
M 430.9728 R 11313



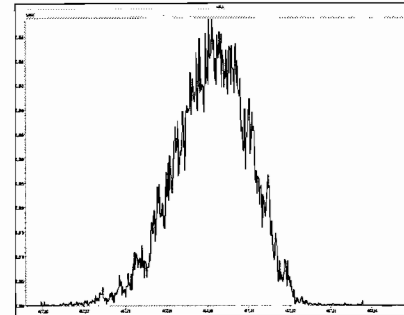
M 442.9728 R 10917



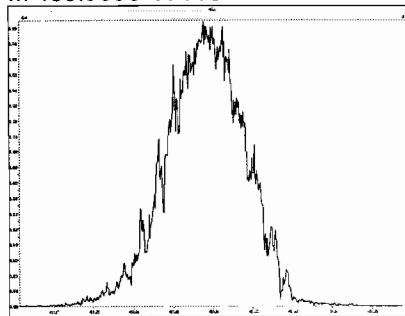
M 454.9728 R 11573



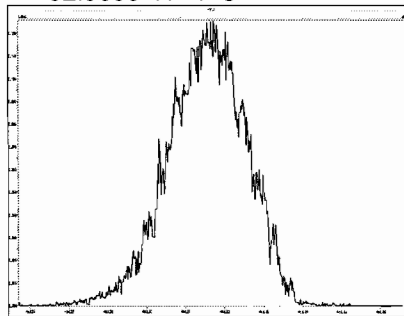
M 466.9728 R 11575



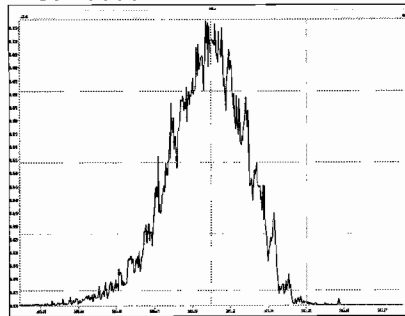
M 480.9696 R 11521



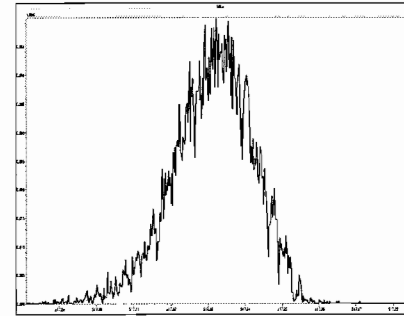
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M 504.9696 R 11311



M 516.9697 R 11963



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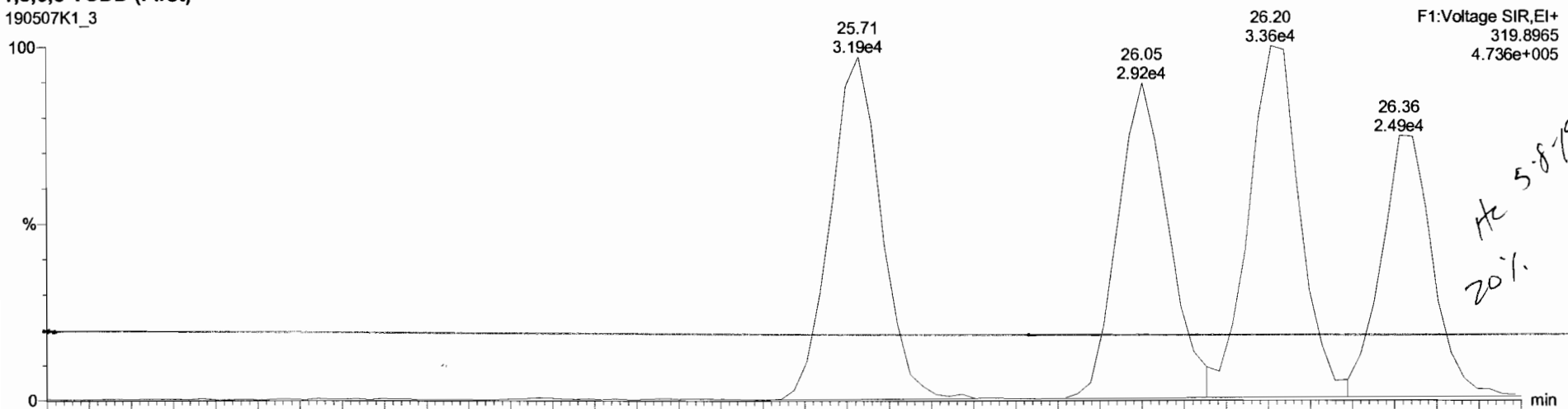
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Method: U:\VG11.PRO\MethDB\CPSM-5-7-19.mdb 07 May 2019 13:29:19  
Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

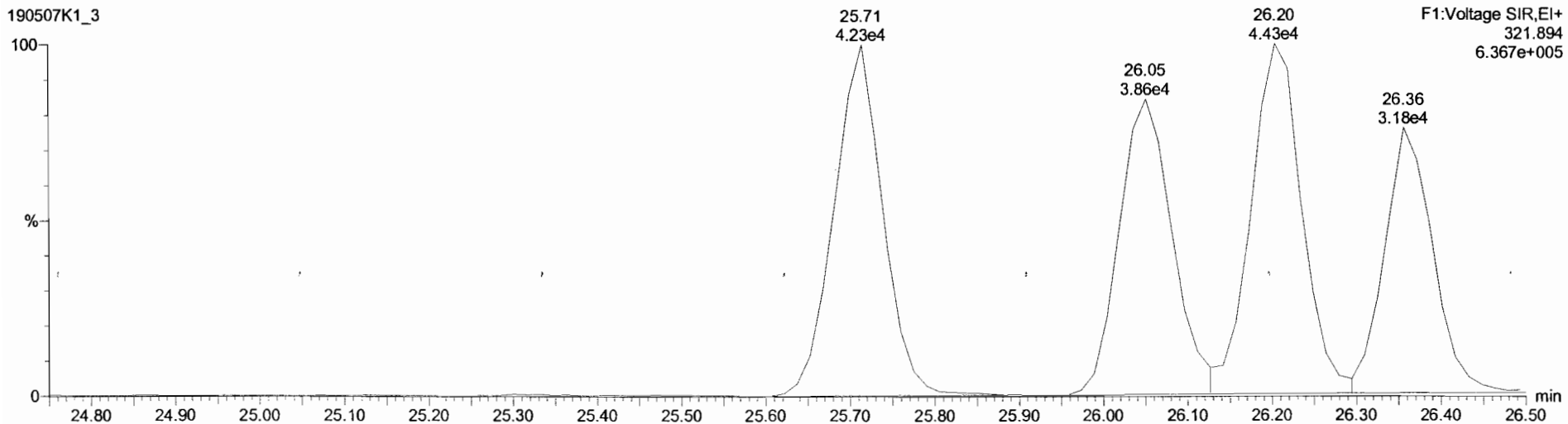
Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

1,3,6,8-TCDD (First)

190507K1\_3



190507K1\_3



Dataset: Untitled

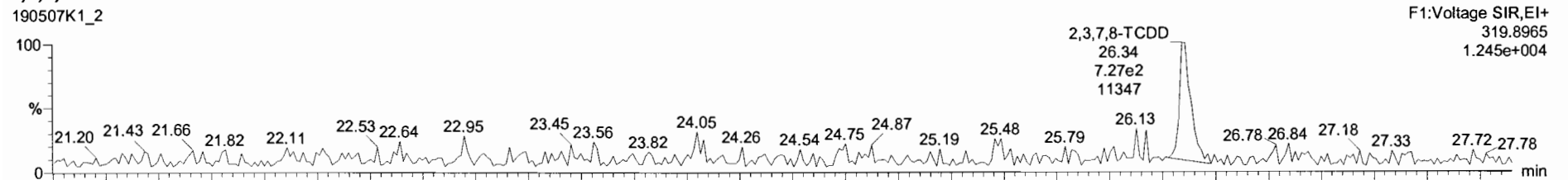
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Method: U:\VG11.PRO\MethDB\1613\_rrt-5-7-19.mdb 07 May 2019 12:51:47  
Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 07 May 2019 16:51:46

Name: 190507K1\_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1\_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

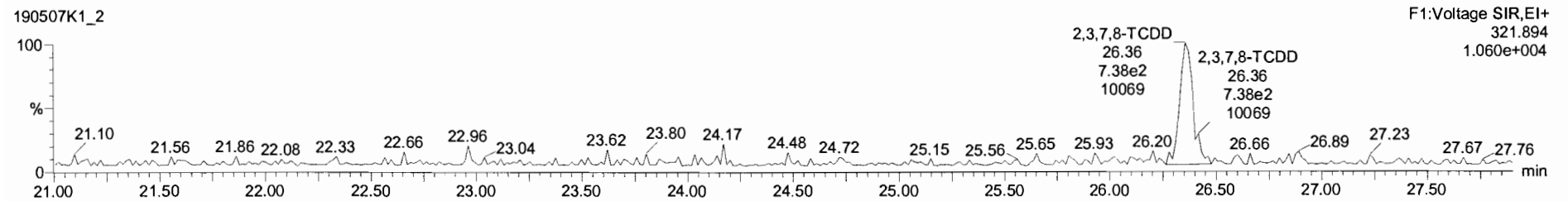
**2,3,7,8-TCDD**

190507K1\_2



F1:Voltage SIR,EI+  
319.8965  
1.245e+004

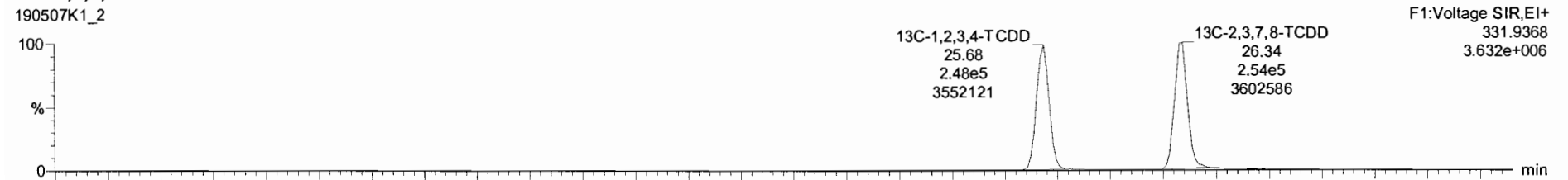
190507K1\_2



F1:Voltage SIR,EI+  
321.894  
1.060e+004

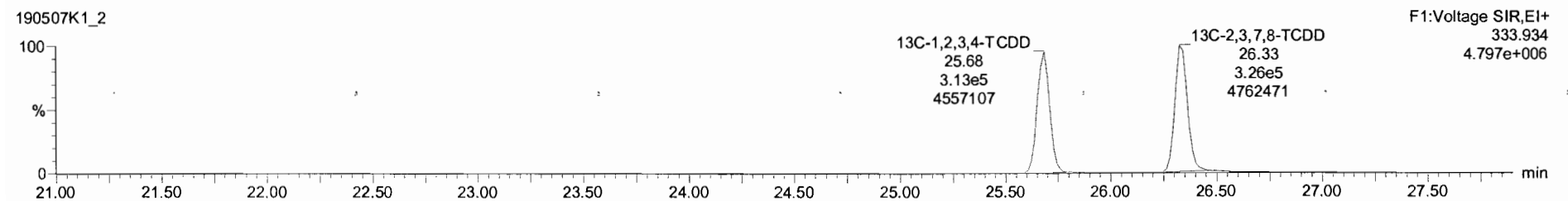
**13C-2,3,7,8-TCDD**

190507K1\_2



F1:Voltage SIR,EI+  
331.9368  
3.632e+006

190507K1\_2

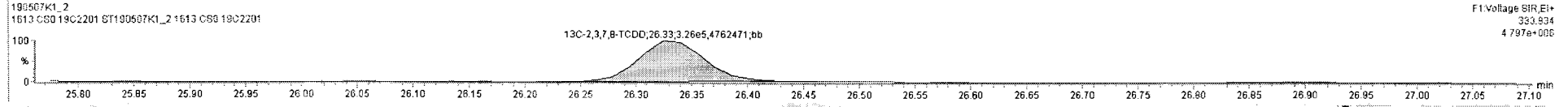
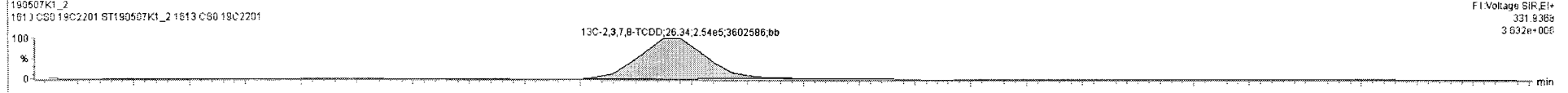
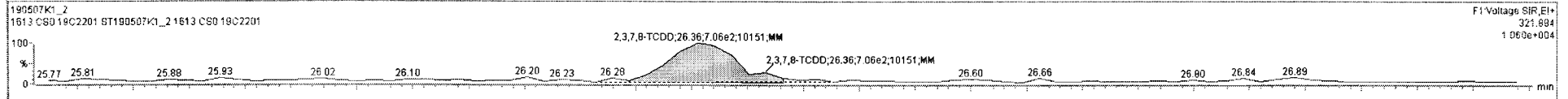
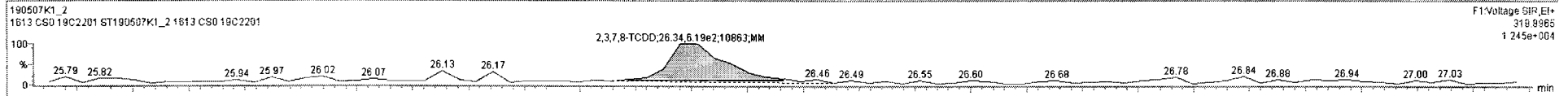


F1:Voltage SIR,EI+  
333.934  
4.797e+006



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	1.18e4	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

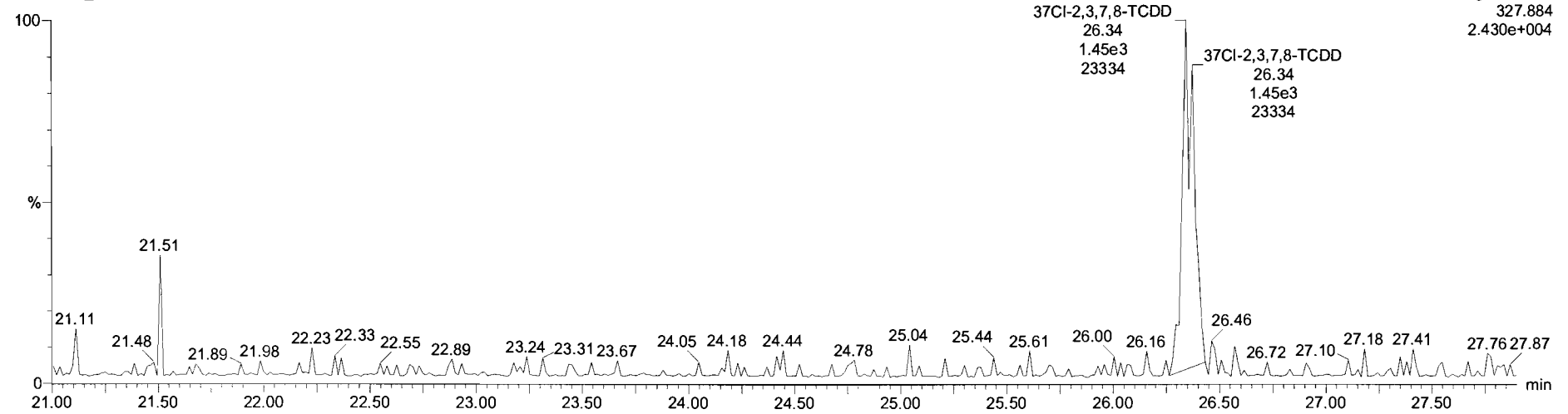
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

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

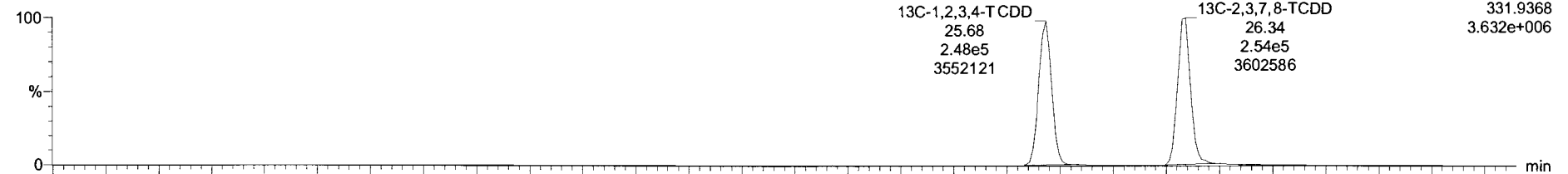
**37Cl-2,3,7,8-TCDD**

190507K1\_2

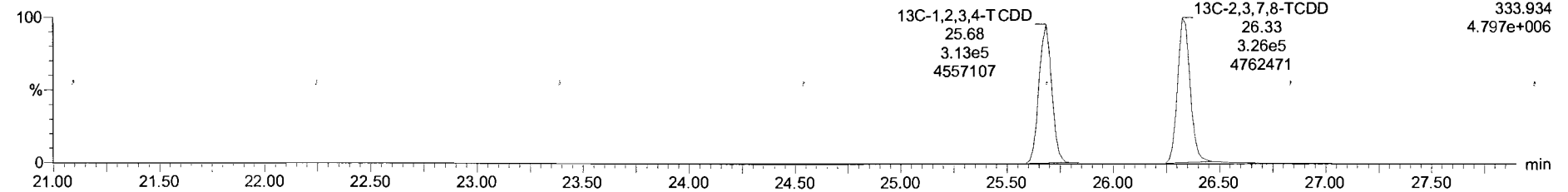


**13C-1,2,3,4-TCDD**

190507K1\_2



190507K1\_2



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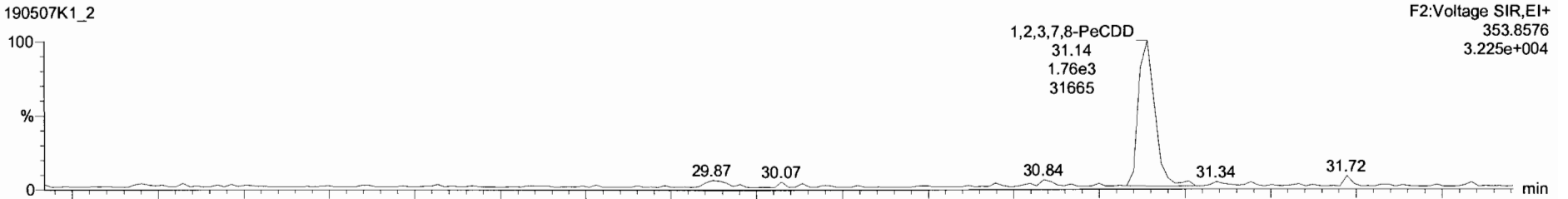
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

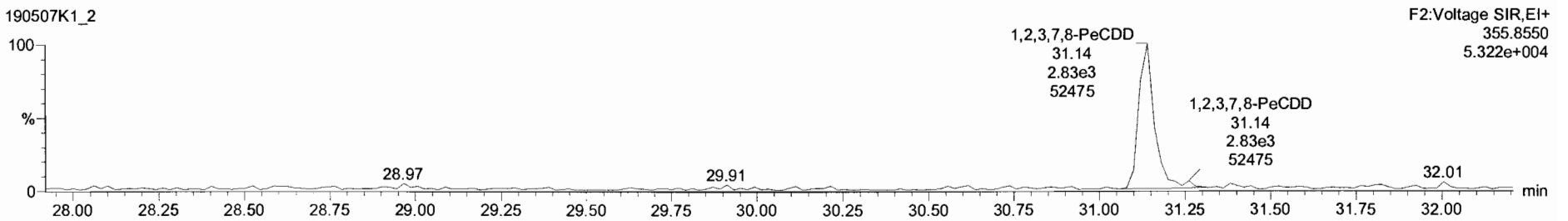
Name: 190507K1\_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1\_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

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

190507K1\_2

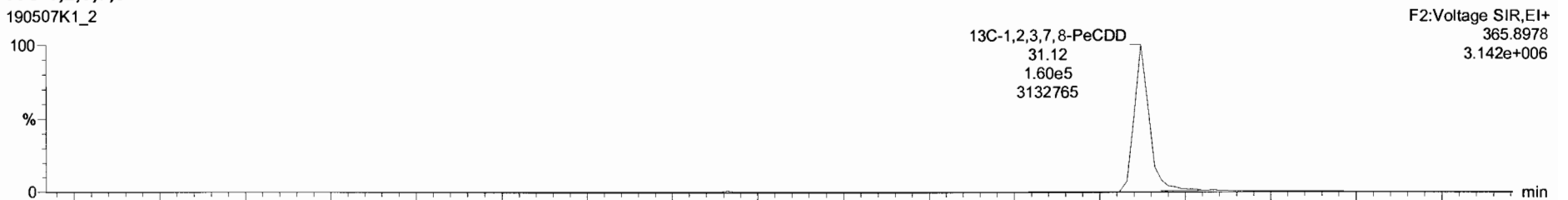


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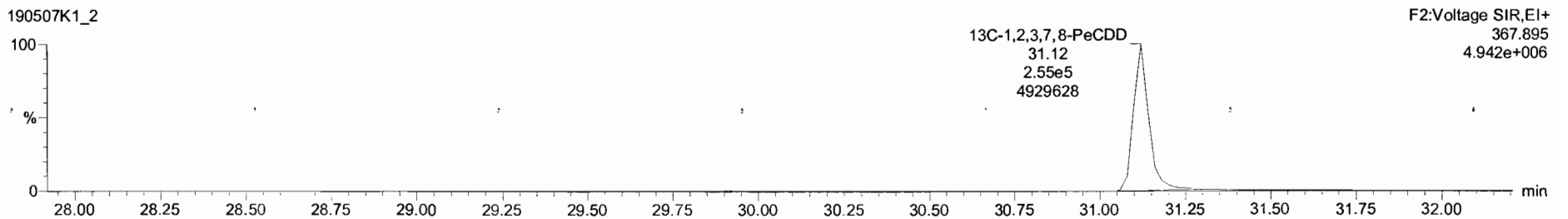


**13C-1,2,3,7,8-PeCDD**

190507K1\_2



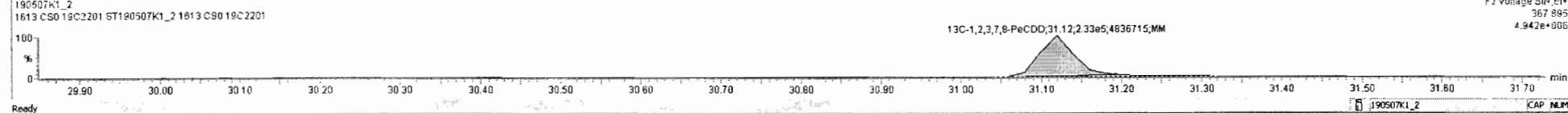
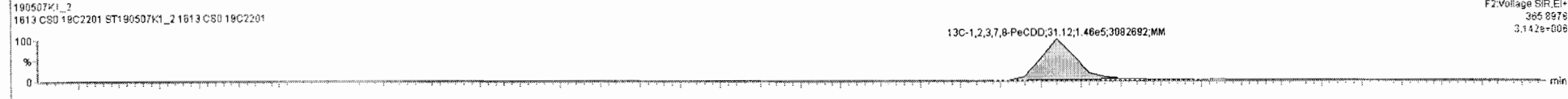
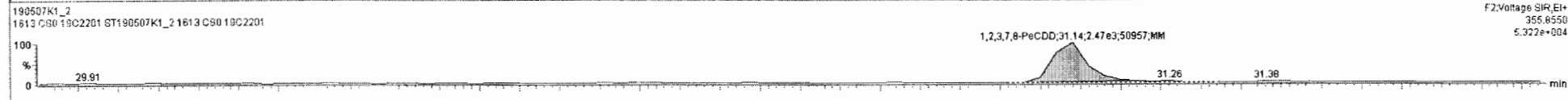
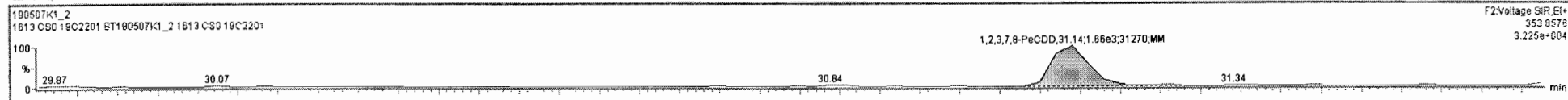
190507K1\_2



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										



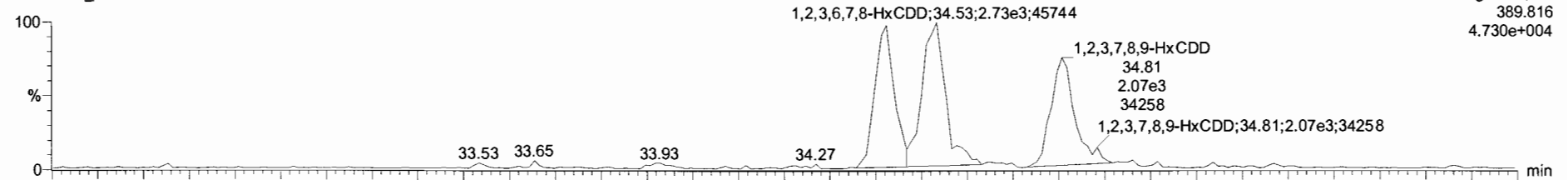
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
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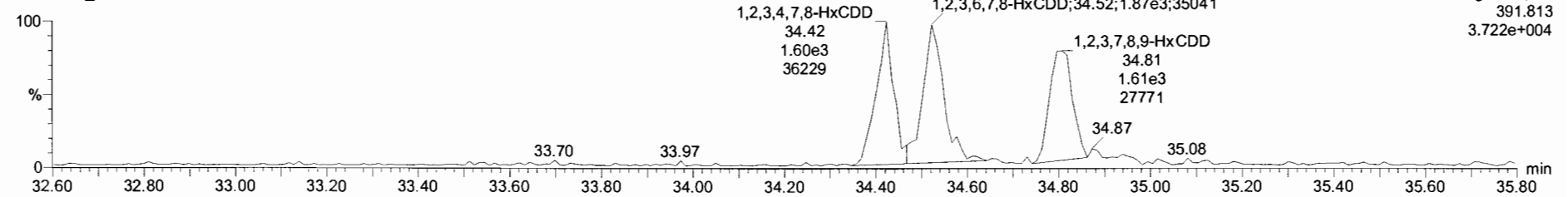
Name: 190507K1\_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1\_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

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

190507K1\_2

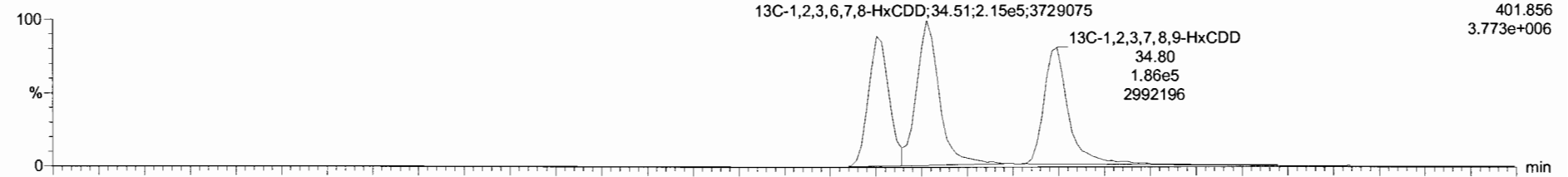


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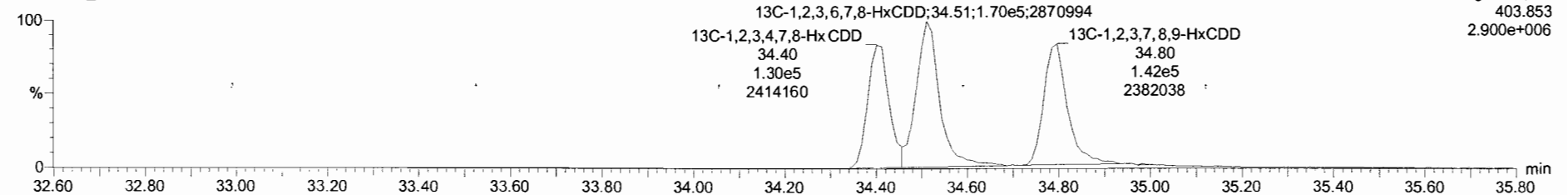


**13C-1,2,3,4,7,8-HxCDD**

190507K1\_2



190507K1\_2

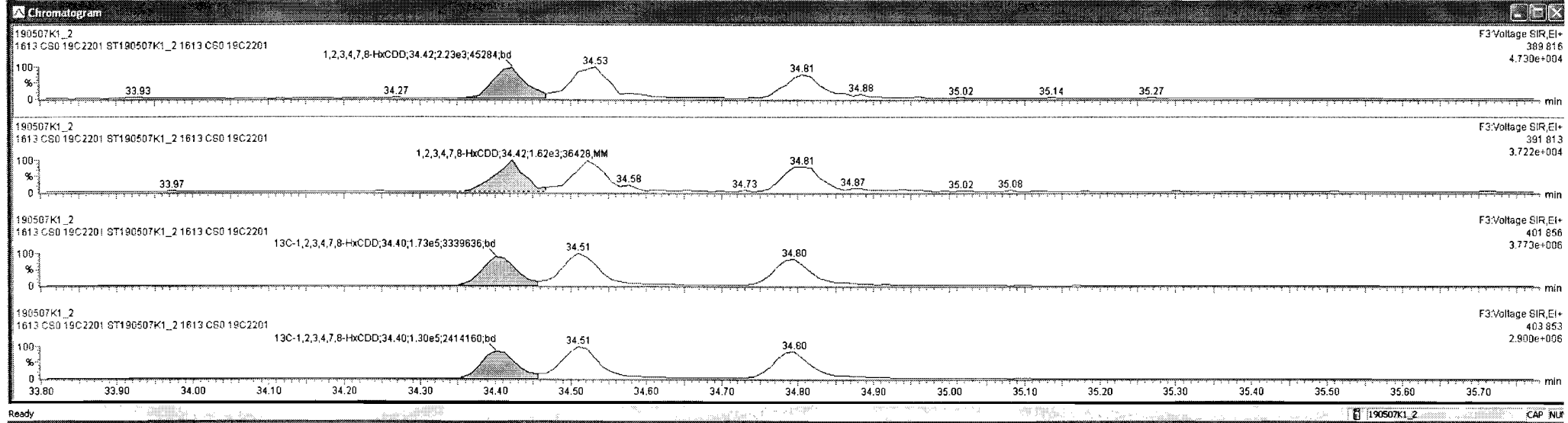


TargetLynx: 190507K1.CRV.qld

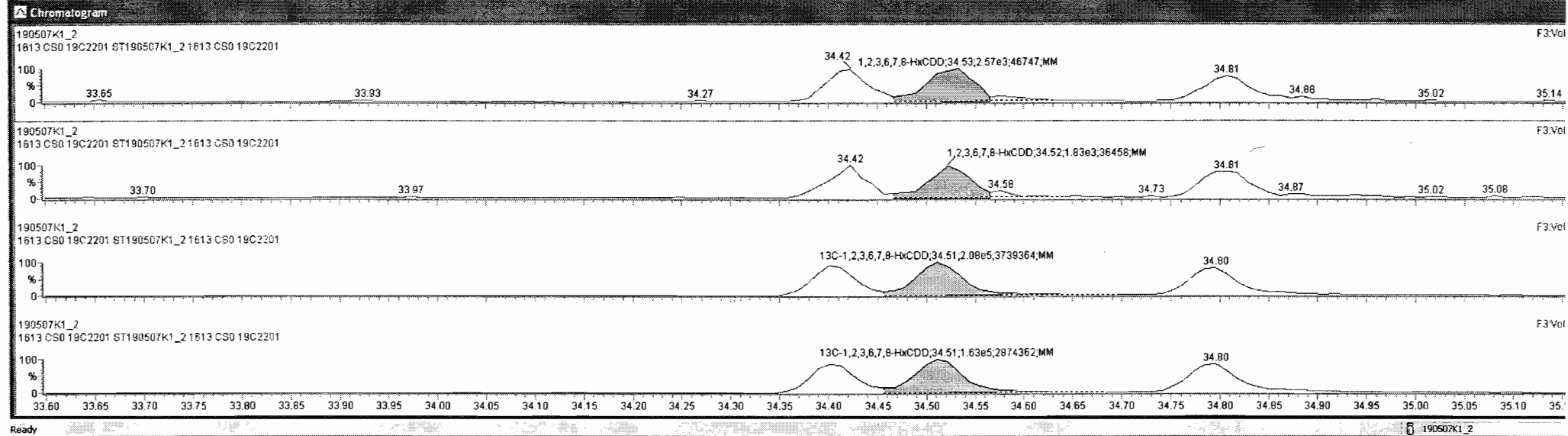
File Edit View Display Processing Window Help

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	1.000	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	1.35	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	



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	0.98	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	8.12e3	1.35	NO	1.09	1.000	33.87	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	

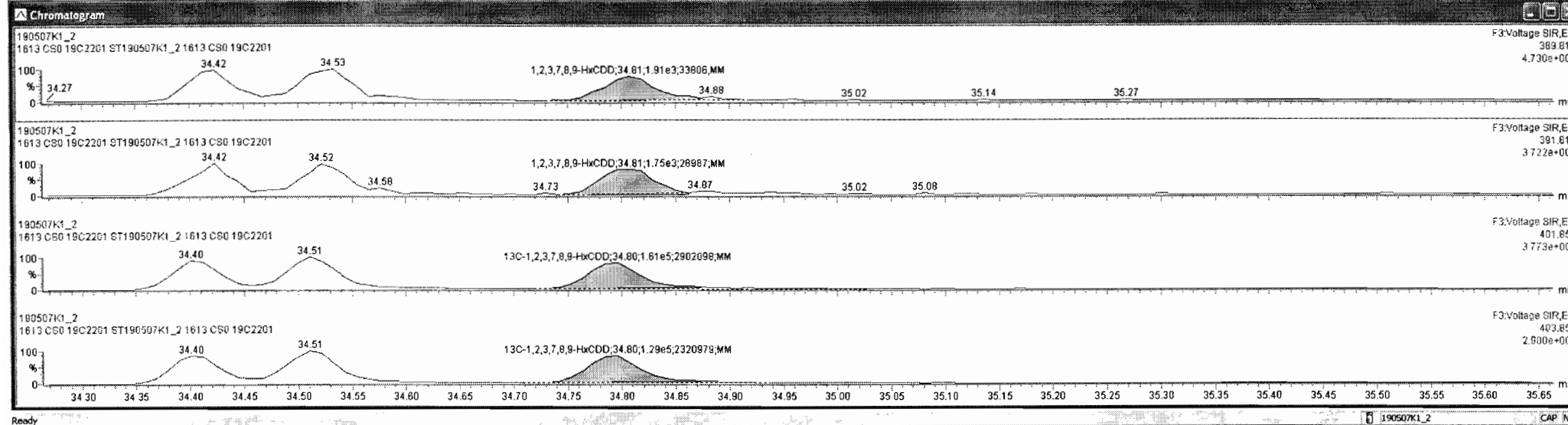


Target: lnx - 190507K1\_CRV.qld

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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	0.0598	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-HxCDF	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

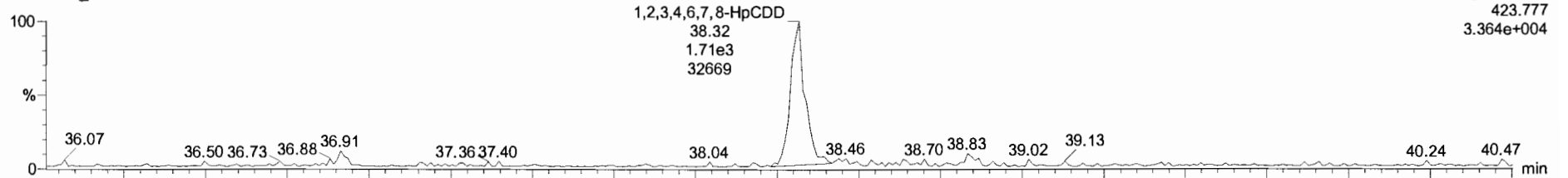
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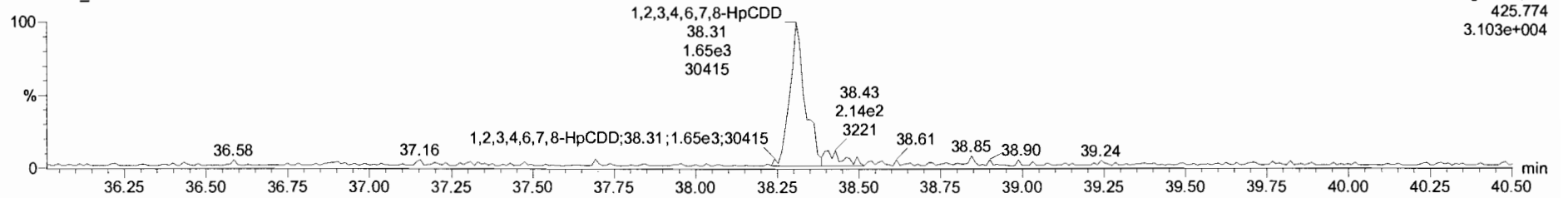
Name: 190507K1\_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1\_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

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

190507K1\_2

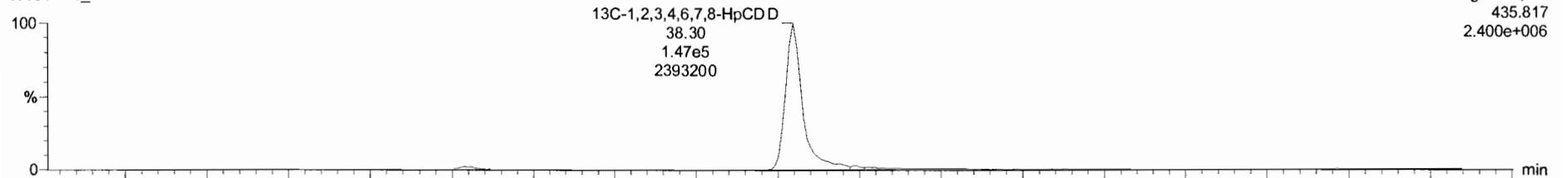


190507K1\_2

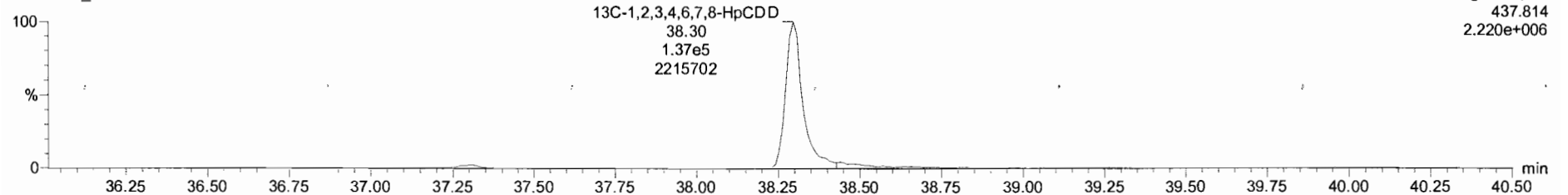


**13C-1,2,3,4,6,7,8-HpCDD**

190507K1\_2



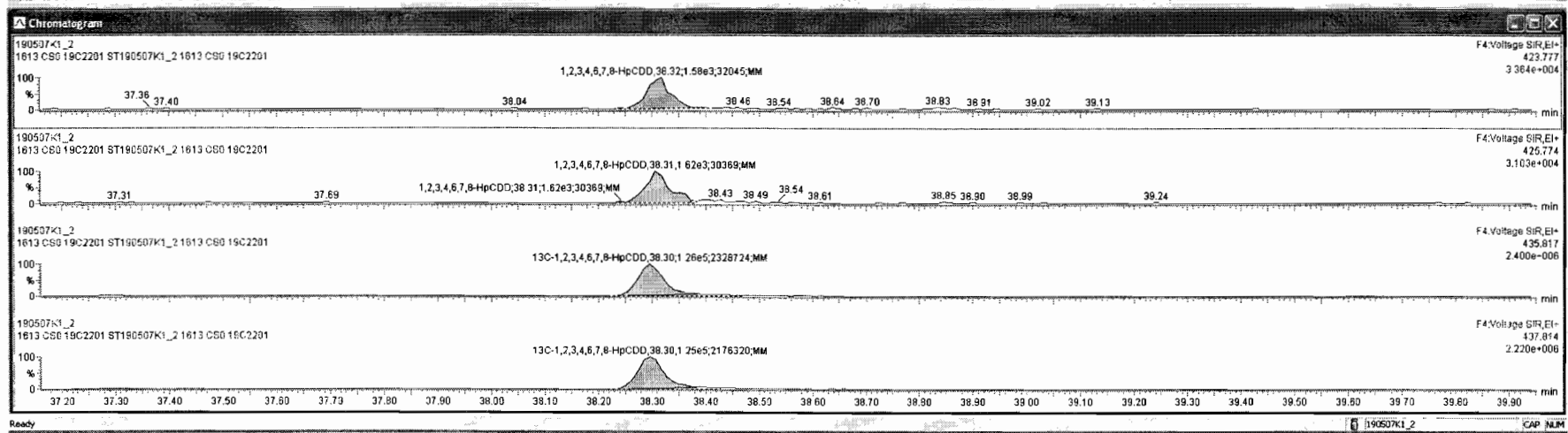
190507K1\_2



Target Lynx - 190507K1.CHV.qld

190507K1\_2 - ST190507K1\_2 1613 CS0 19C2201 - 1613 CS0 19C2201

#	Name	Resp	RA	NY	RRF	WtVol	RT	RTI	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	

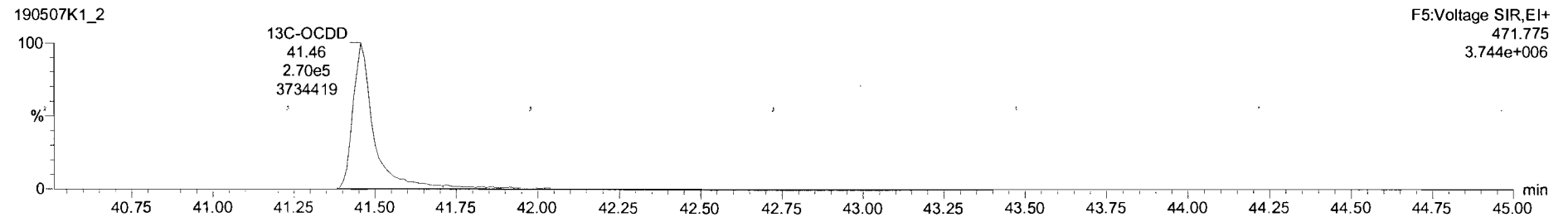
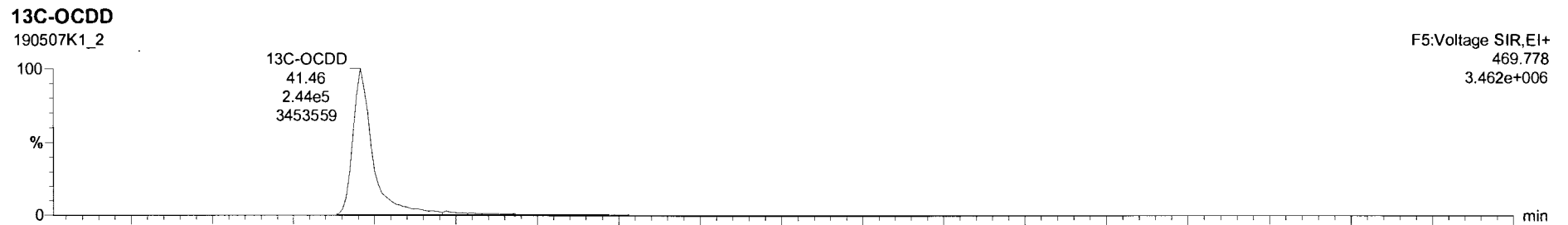
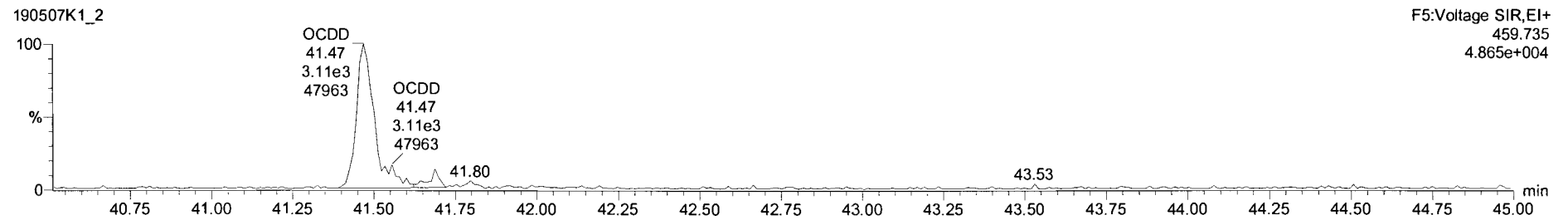
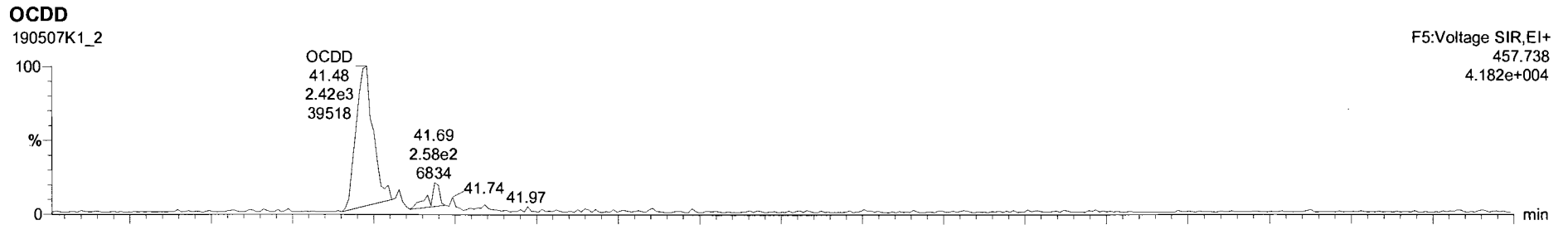


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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

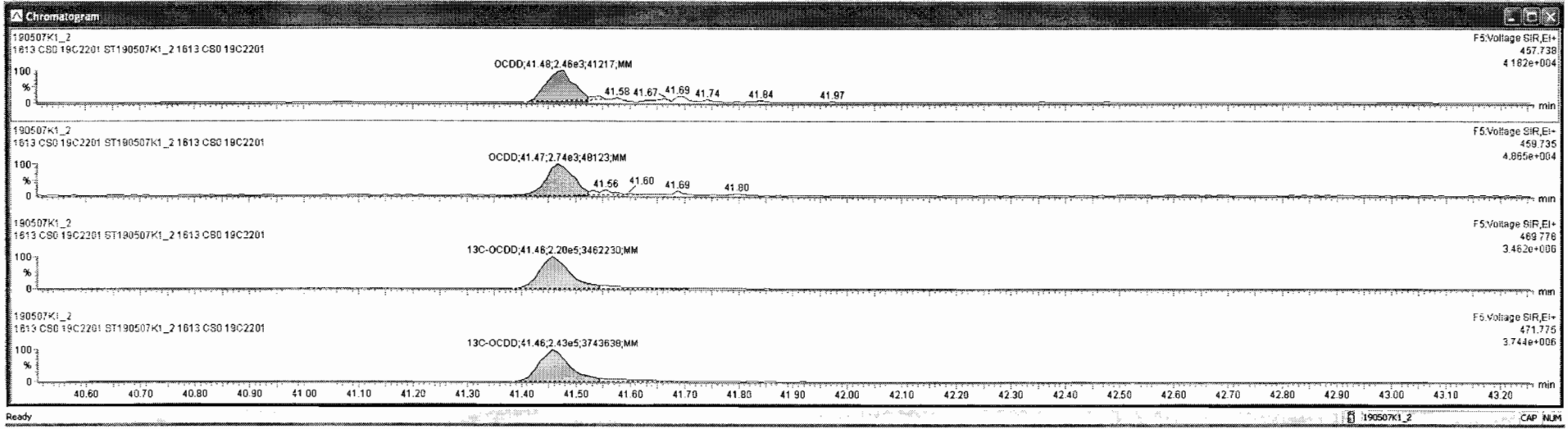
Name: 190507K1\_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1\_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201



Target: ynx - 190507K1-CRY.qld

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	



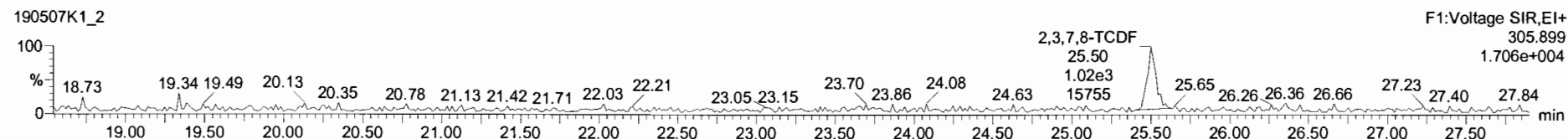
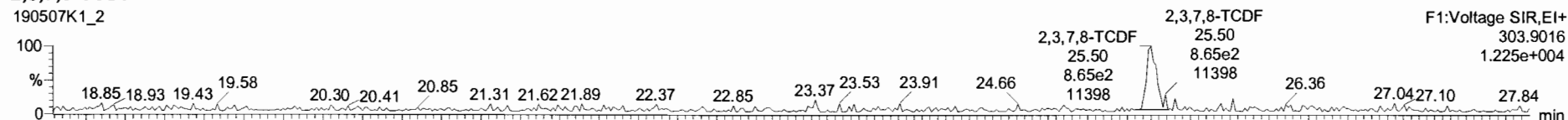
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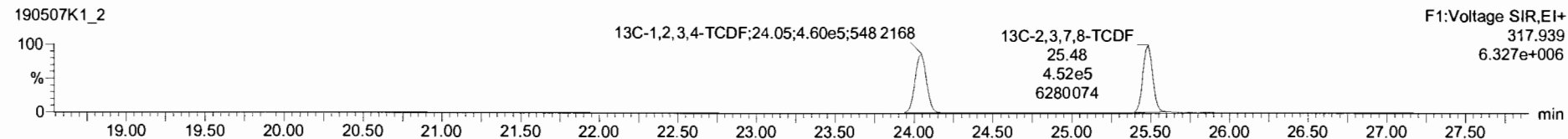
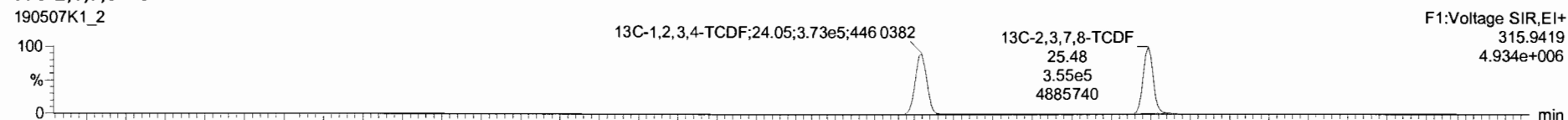
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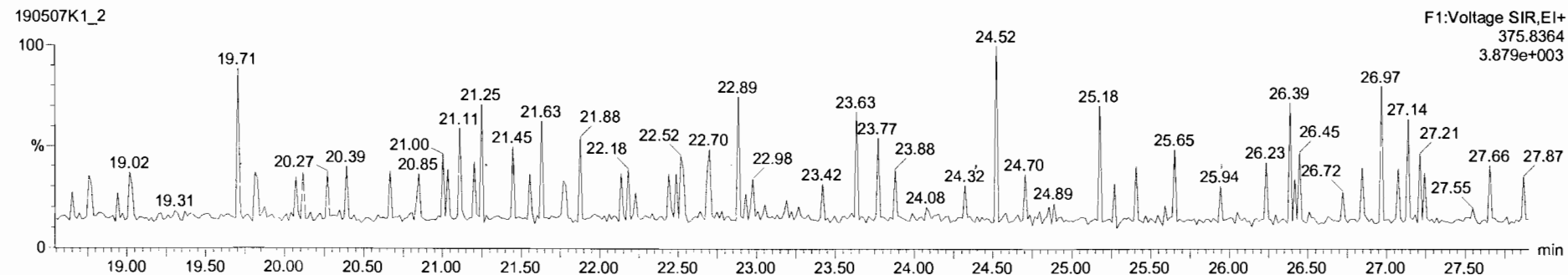
**2,3,7,8-TCDF**



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



**DPE1**

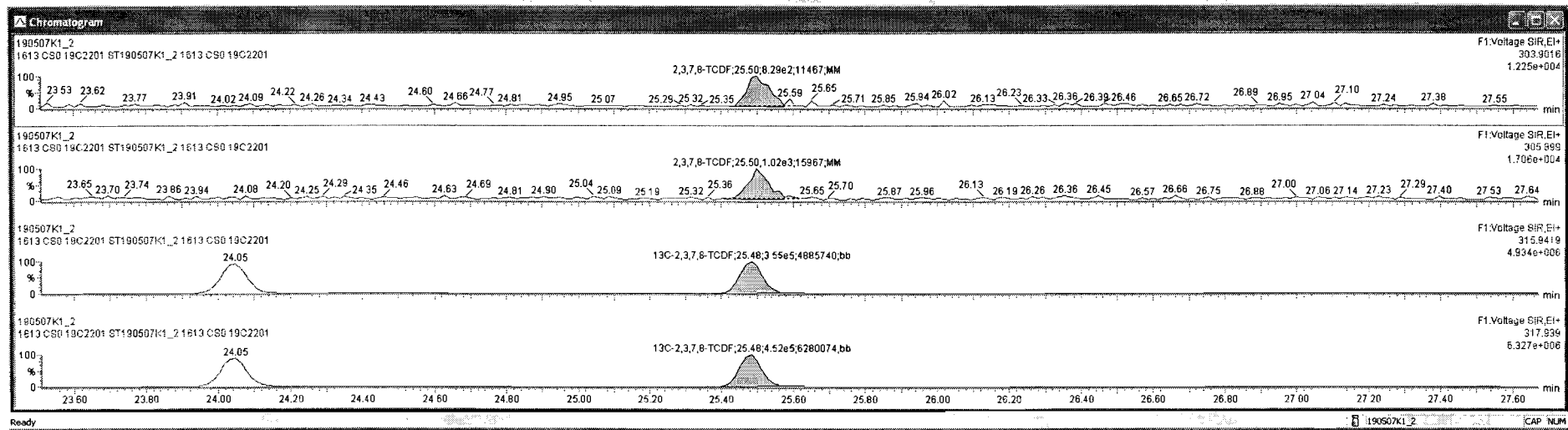


TargetLynx 190507K1\_CRY.gid

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190507K1\_2-ST190507K1\_2.1613 CS0.19C2201.1613 CS0.19C2201

None	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	



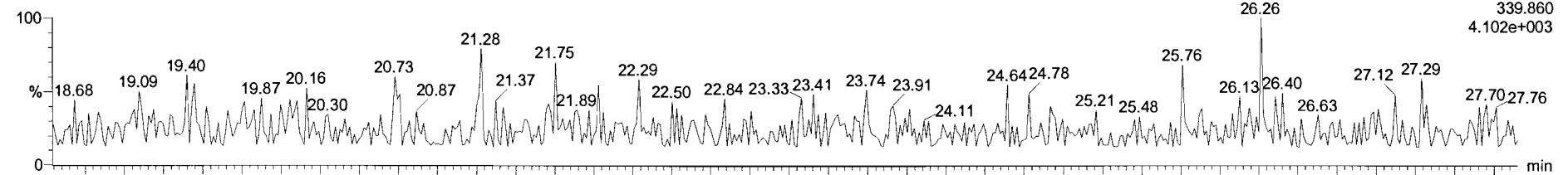
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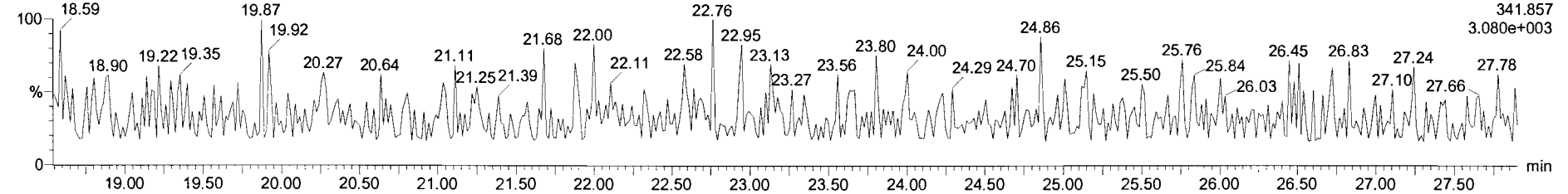
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190507K1\_2

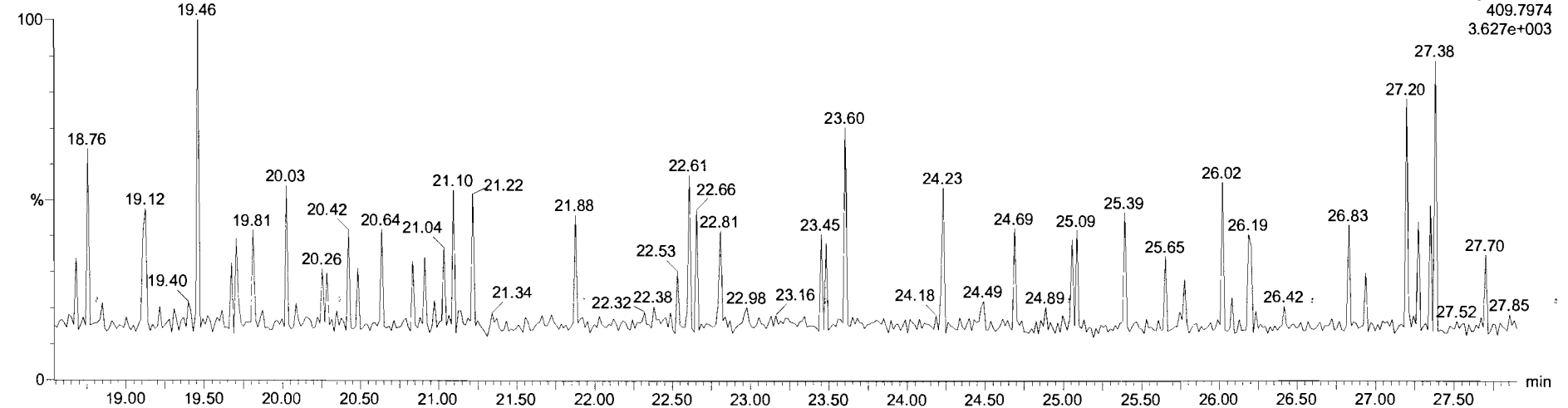


190507K1\_2



DPE6

190507K1\_2

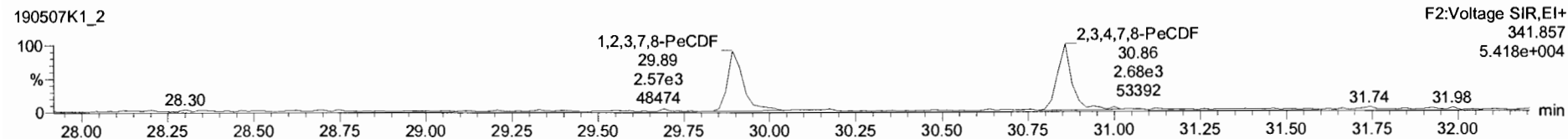
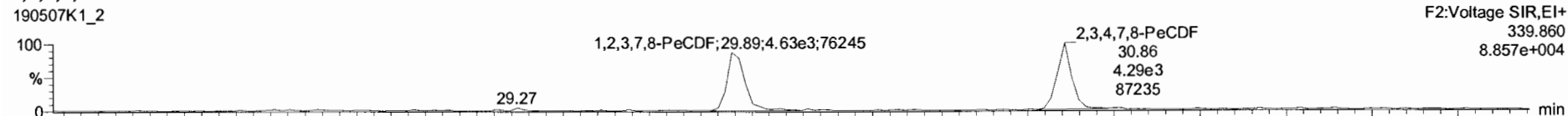


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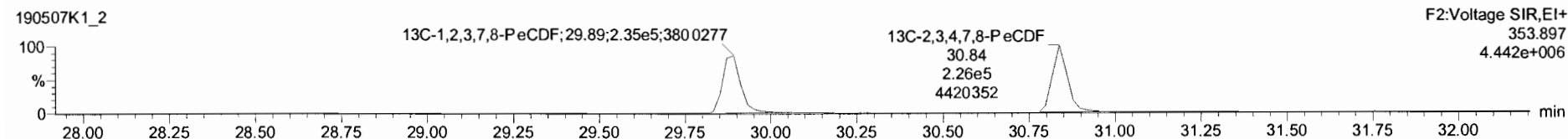
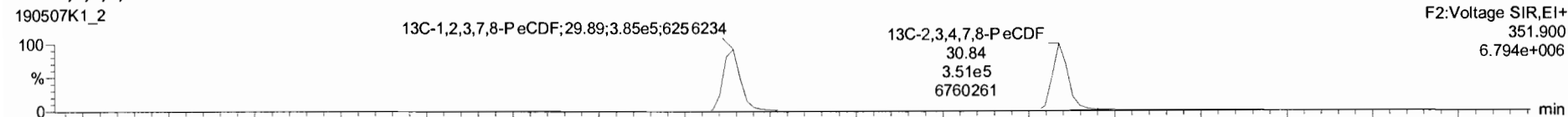
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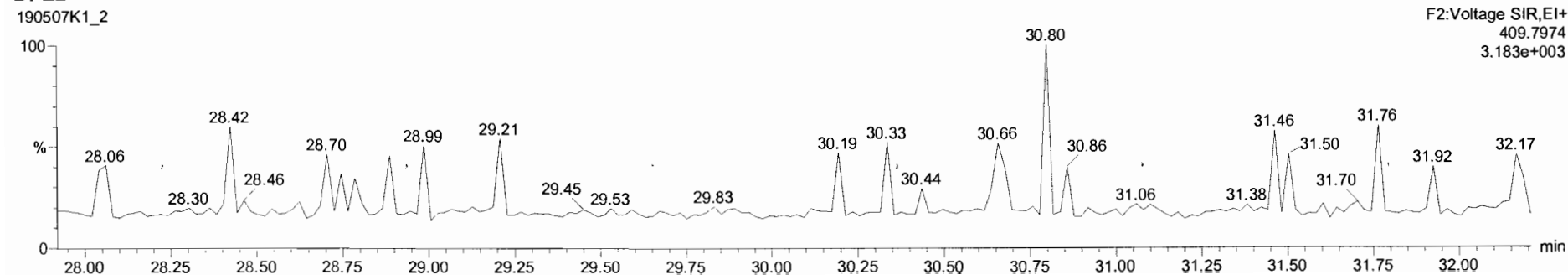
**1,2,3,7,8-PeCDF**



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



**DPE2**



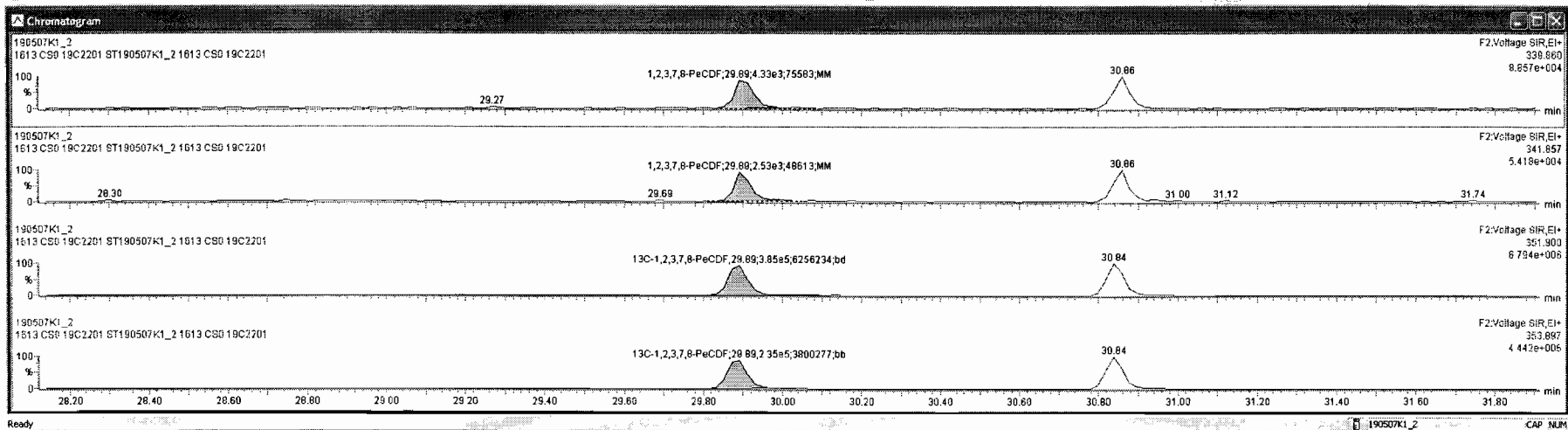


Target1.ymx - 190507K1.CHV.qld

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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	

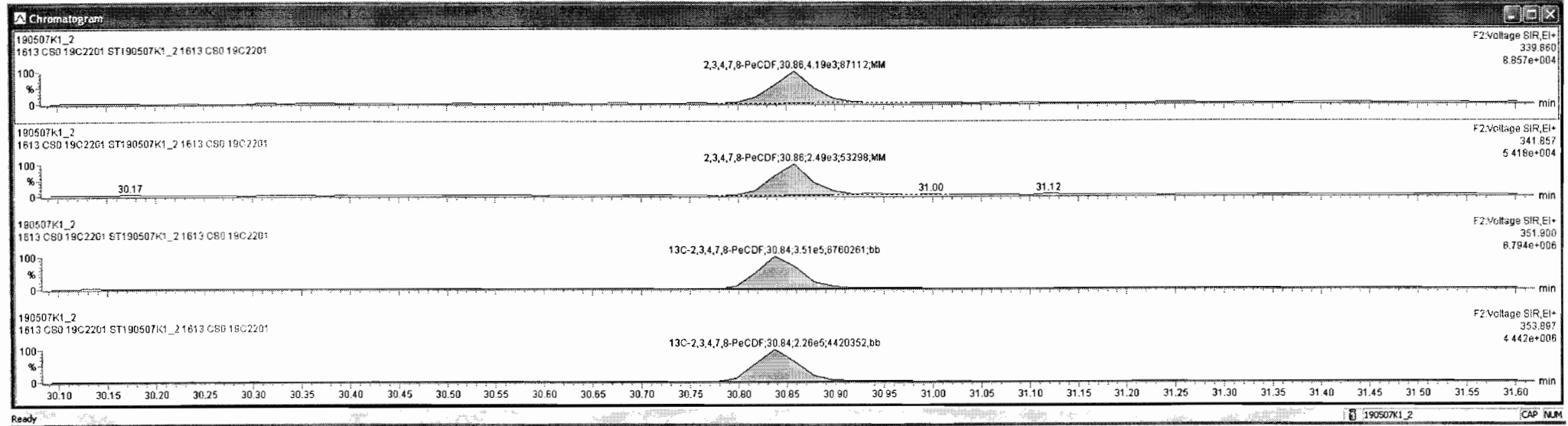


TargetLynx - 190507K1\_CRV.qld

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190507K1\_2 - ST190507K1\_2 1613 CS0 19C2201 - 1613 CS0 19C2201

Name	Resp	RA	RIY	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	

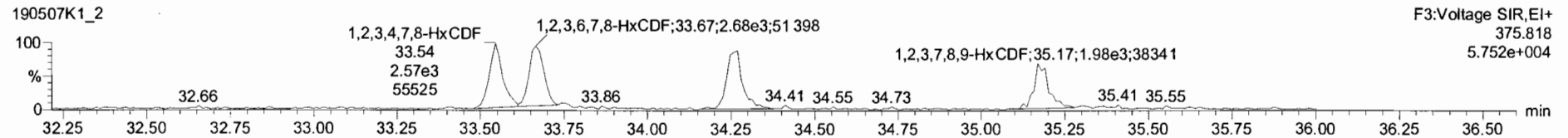
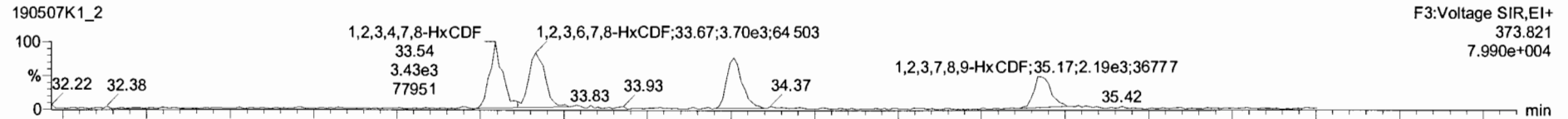


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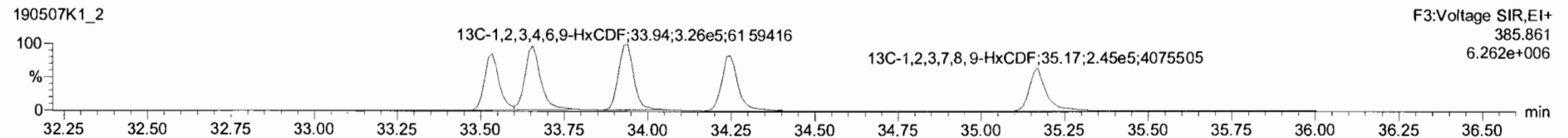
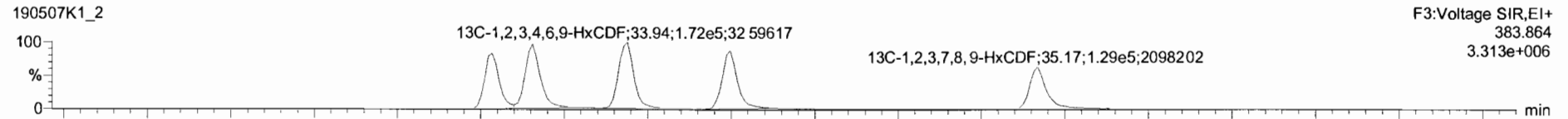
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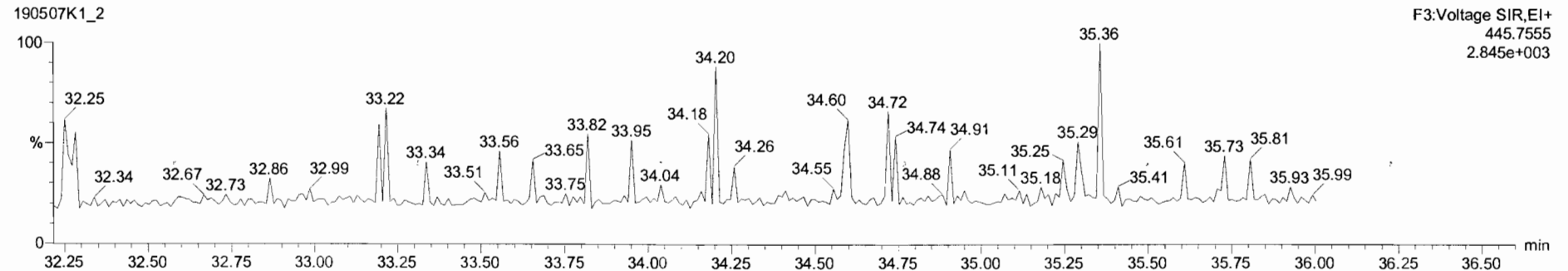
**1,2,3,4,7,8-HxCDF**



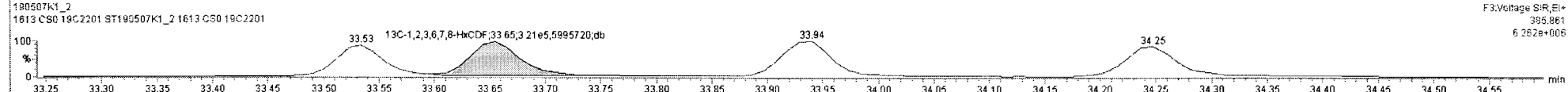
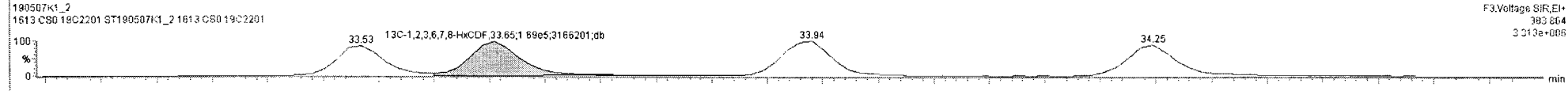
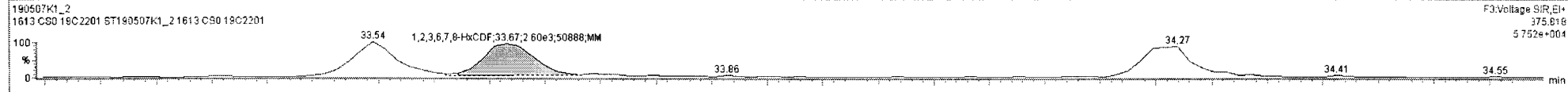
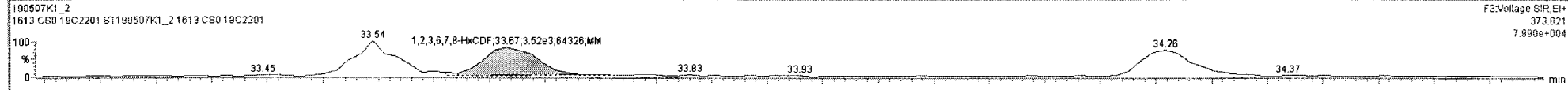
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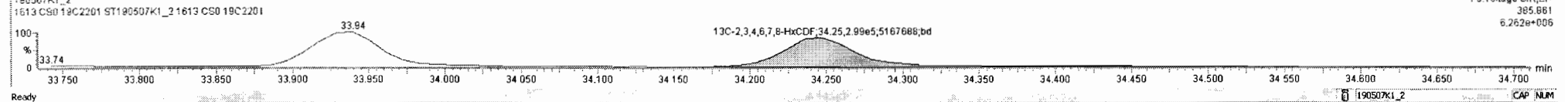
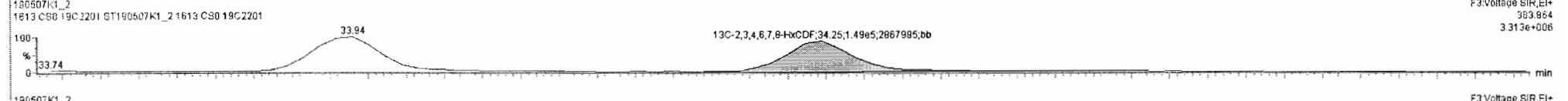
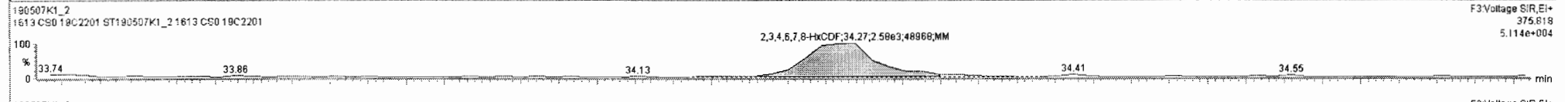
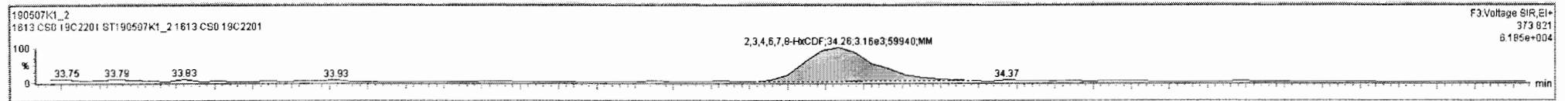
**DPE3**



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	1,2,3,7,8-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	96.8	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-HpCDF	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	

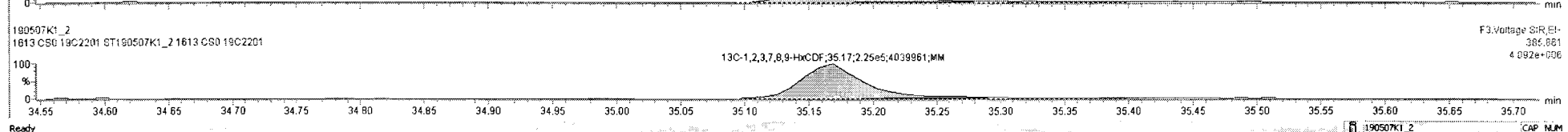
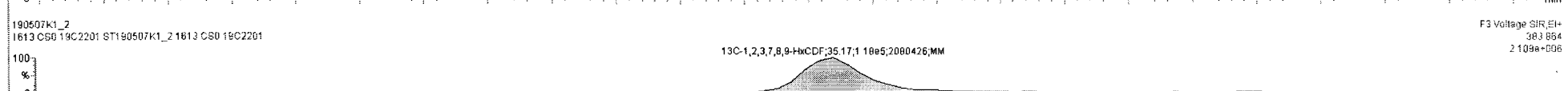
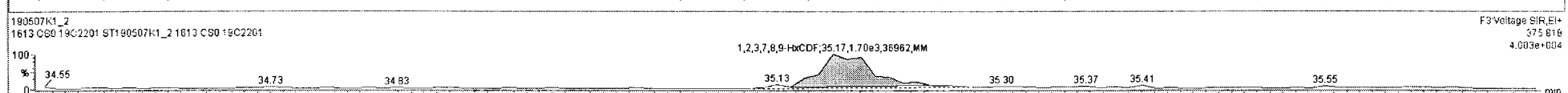
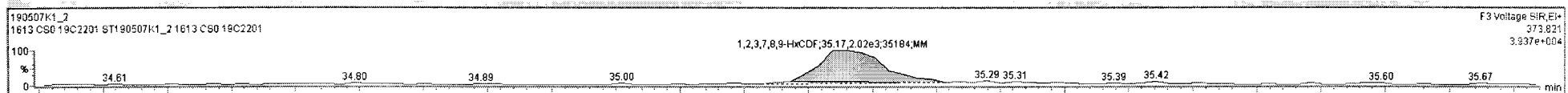


TargetLynx 190507K1\_CRV.qld [Chromatogram]

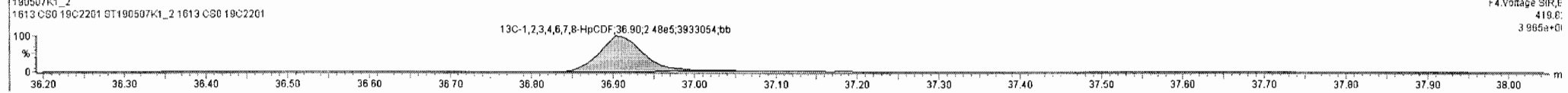
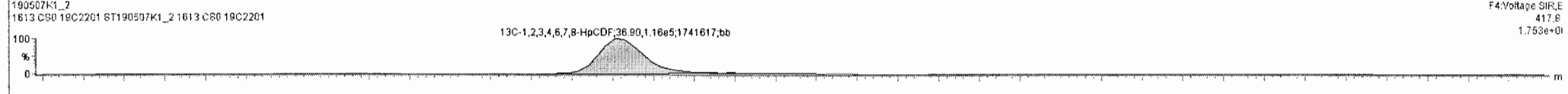
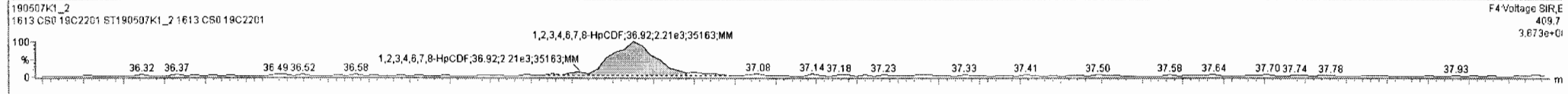
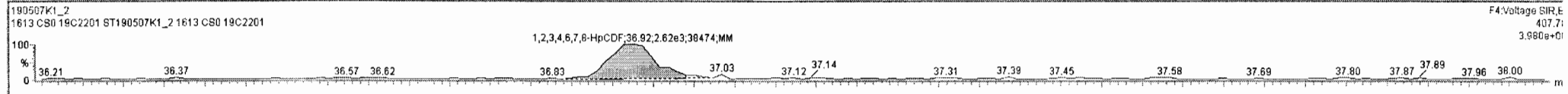
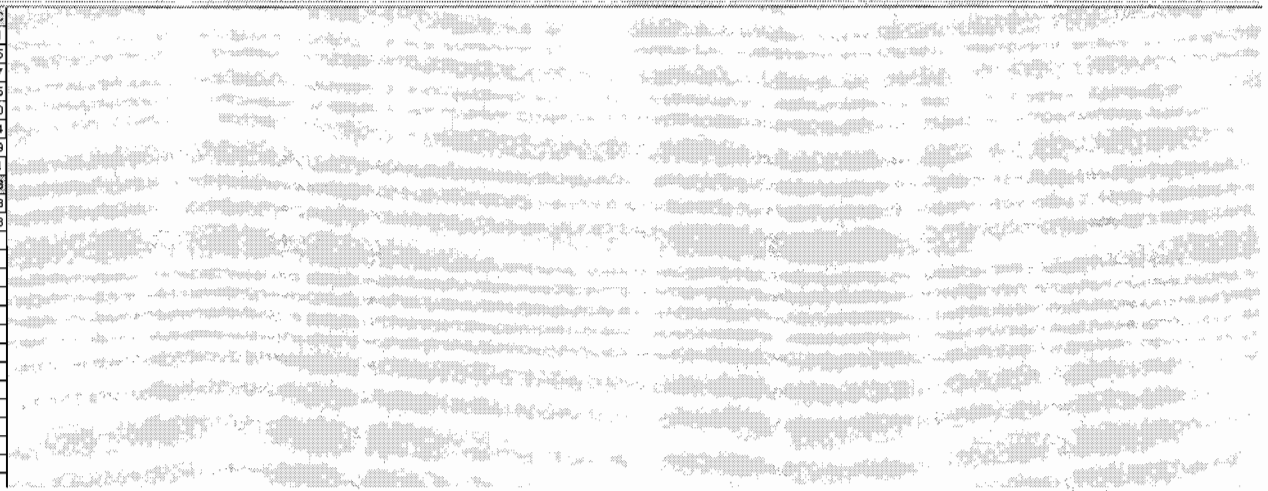
File Edit View Display Processing Window Help

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	



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	90.9	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	36.86	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	

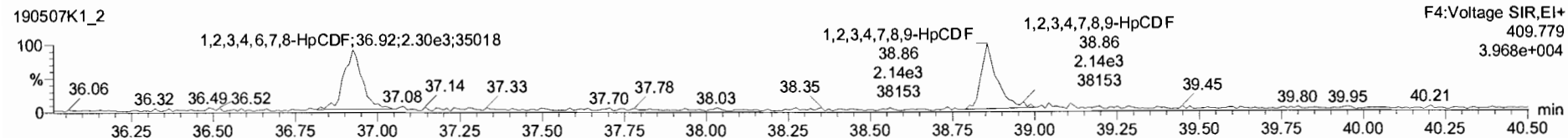
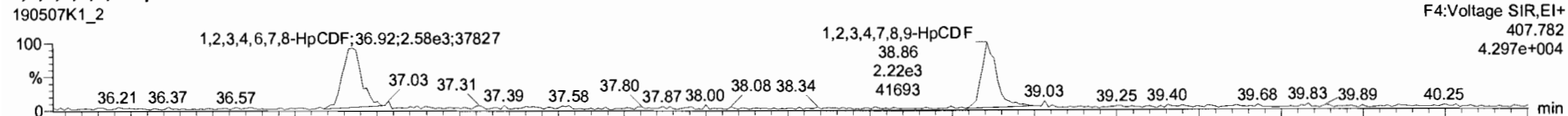


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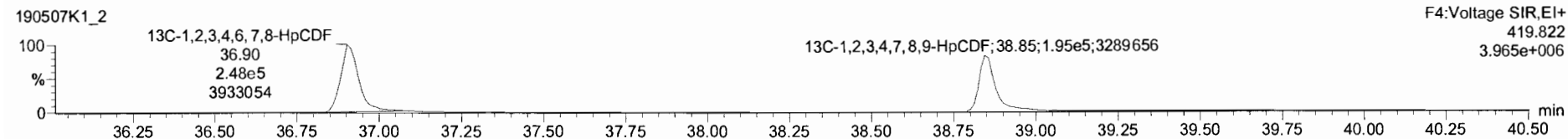
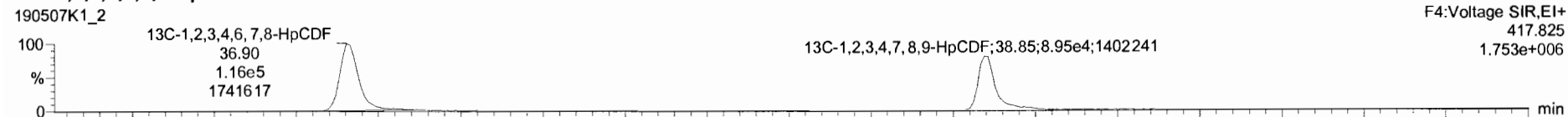
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Name: 190507K1\_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1\_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

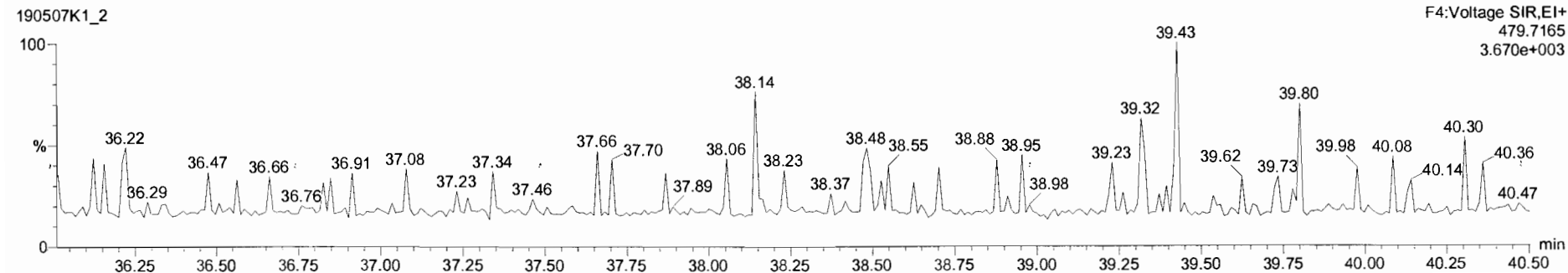
**1,2,3,4,6,7,8-HpCDF**



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



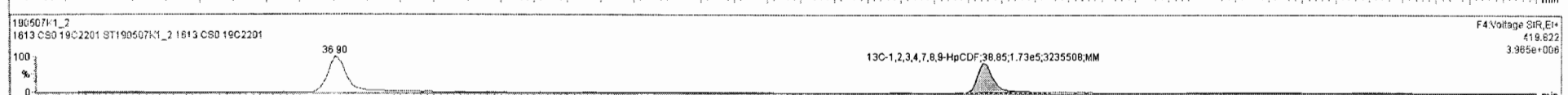
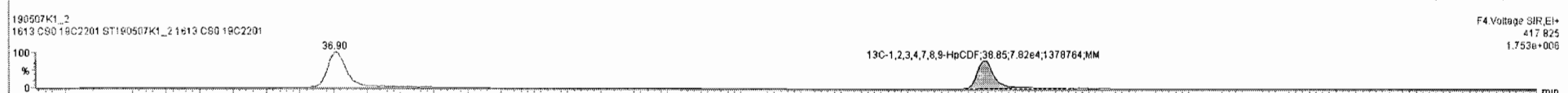
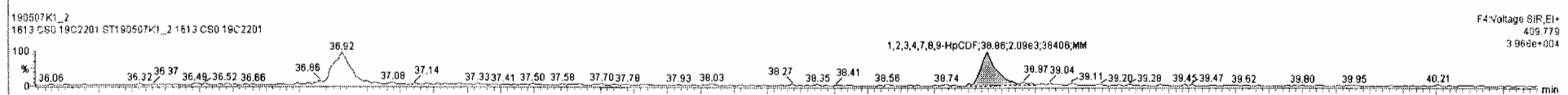
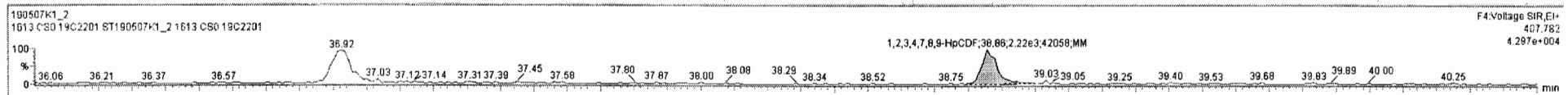
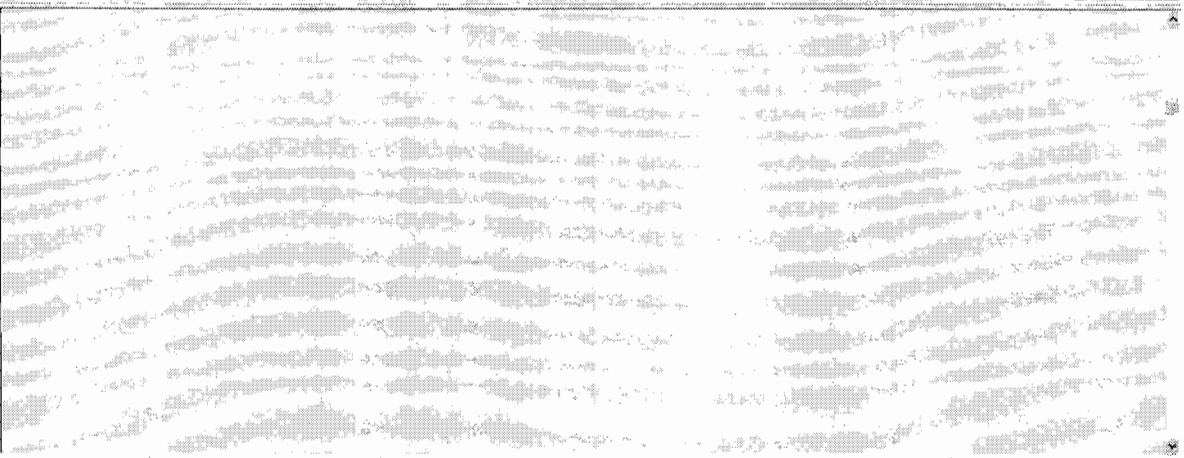
**DPE4**





190507K1\_2 - ST190507K1\_2 1613 CS0 19C2201 - 1613 CS0 19C2201

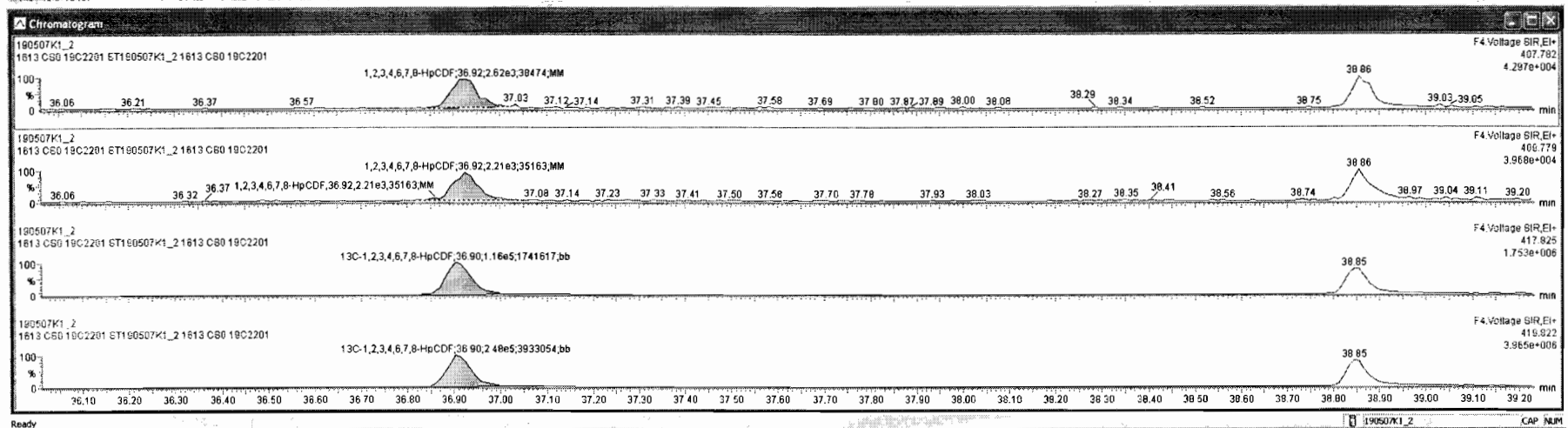
Name	Resp	RA	dy	RRF	wtAvl	RT	RRT	Conc	%Rec	DL	EMPC	
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8	2,3,7,8-TCDF	1.85e3	0.81	NO	0.84	1.000	25.50	1.001	0.245	87.9	0.0508	0.245
9	1,2,3,7,8-PeCDF	7.12e3	1.68	NO	0.99	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10	2,3,4,7,8-PeCDF	6.88e3	1.69	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	29.89	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	0.95	1.000	33.53	0.988	95.3	95.3	0.571	
29	13C-1,2,3,6,7,8-HxCDF	4.50e5	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-PeCDD	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	



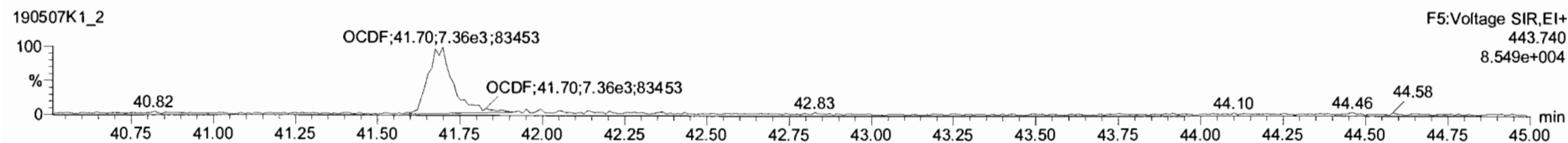
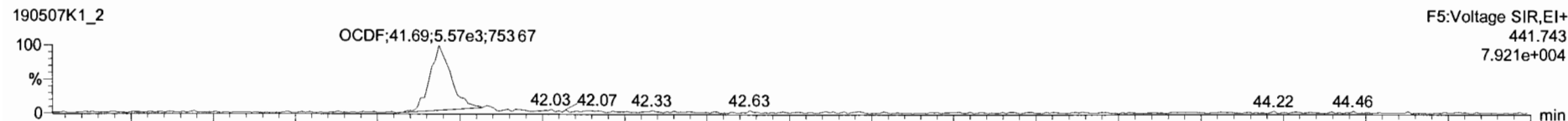
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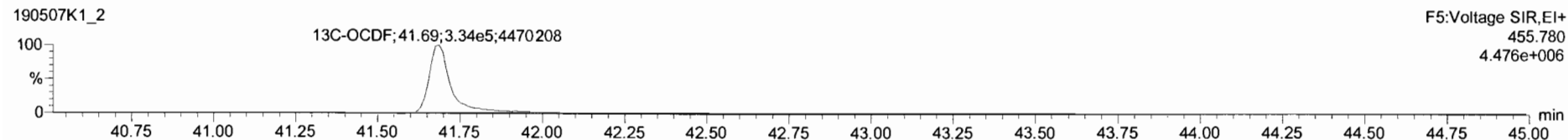
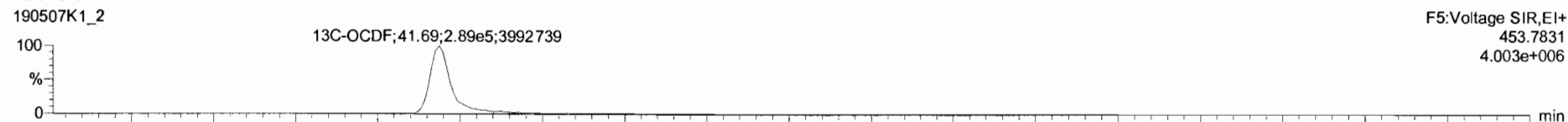
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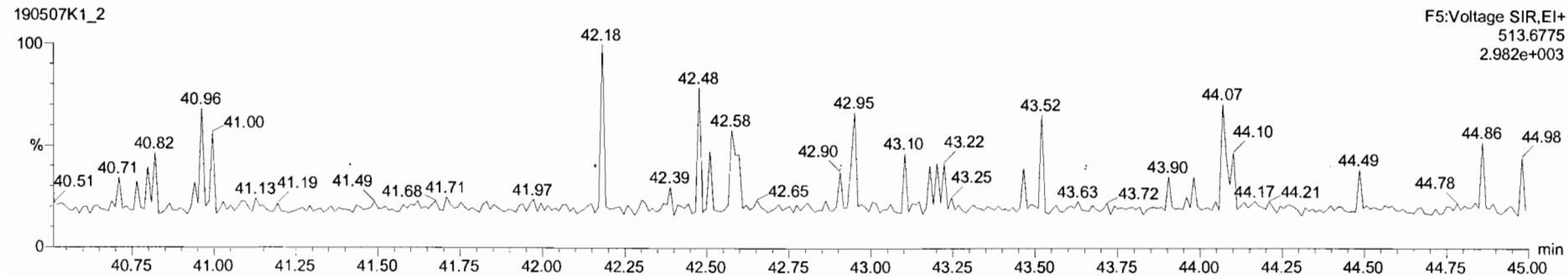
**OCDF**



**13C-OCDF**



**DPE5**

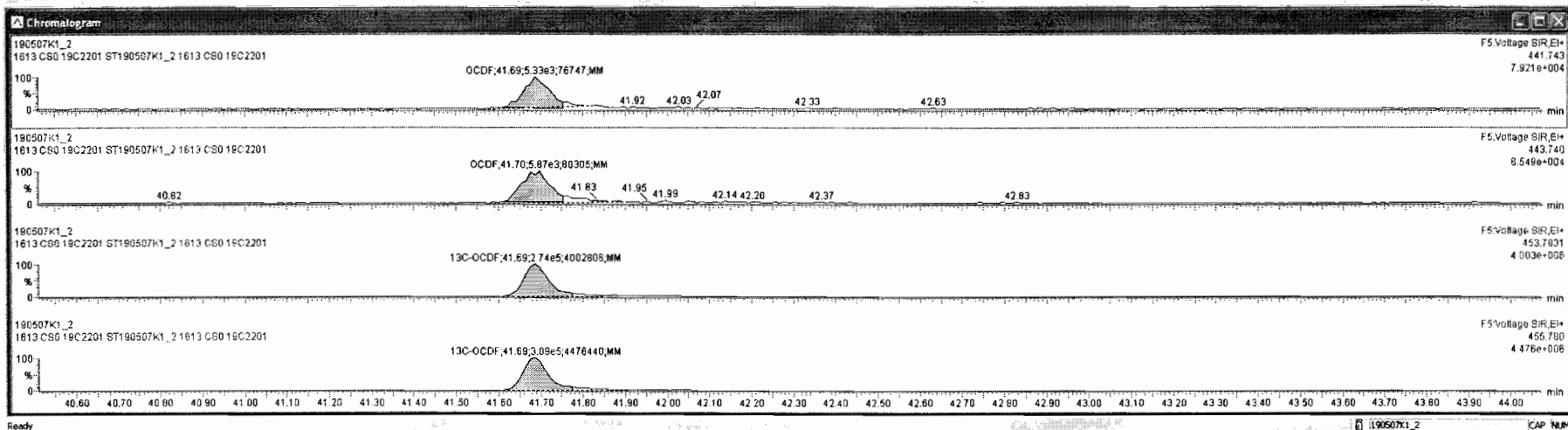


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190507K1\_2 - ST190507K1\_2-1613 CS0 19C2201 - 1613 CS0 19C2201

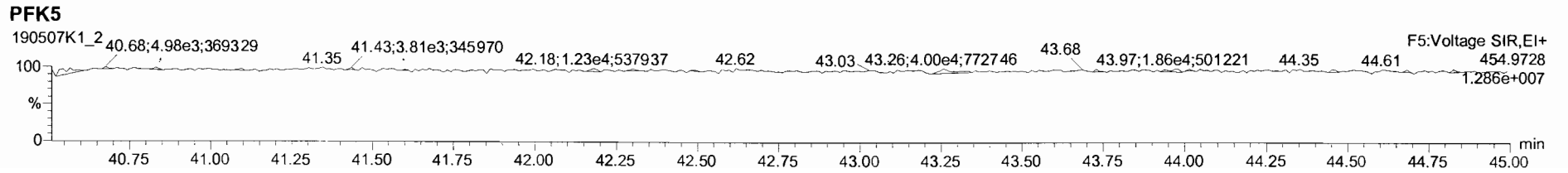
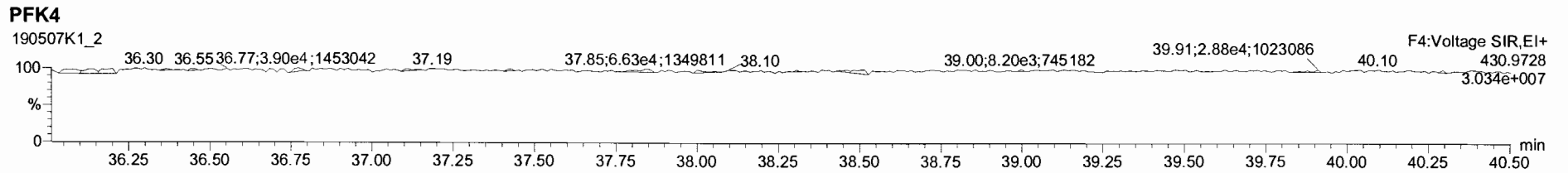
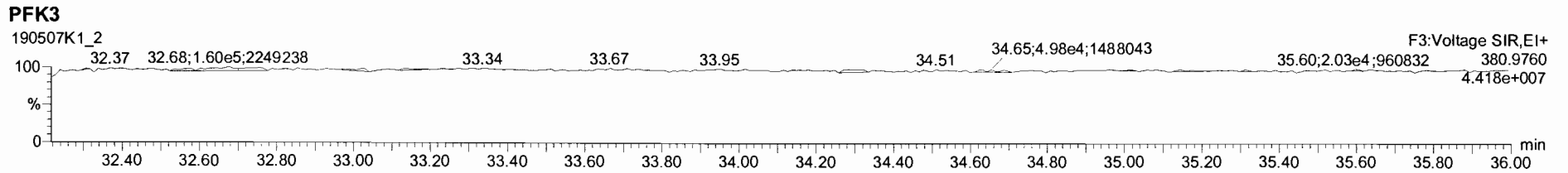
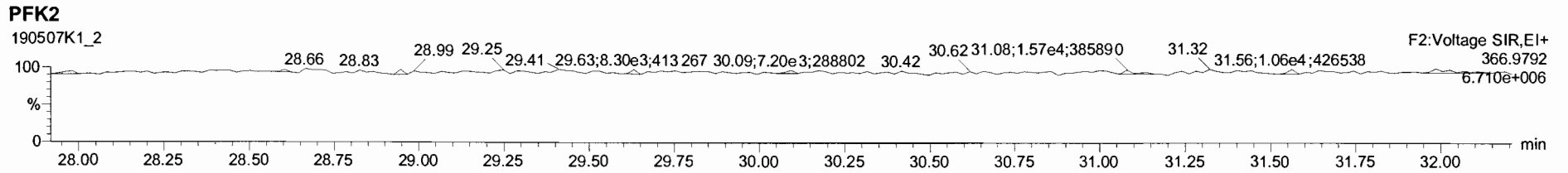
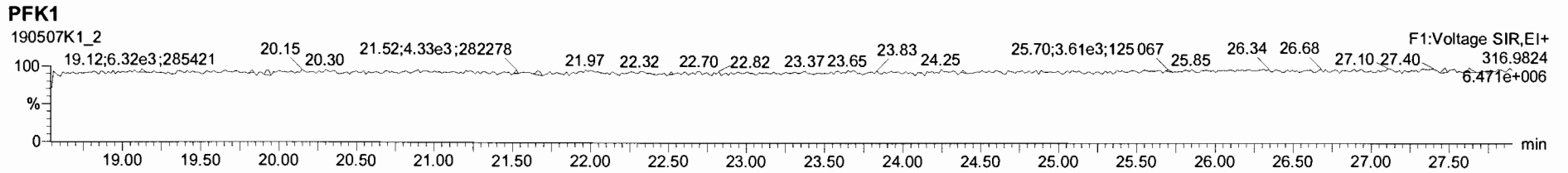
#	Name	Resp	RA	IIV	RRF	WtVol	RT	RRT	Conc	%Rec	DI	EMPC
7	OCDF	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8	2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9	1,2,3,7,8-PeCDF	7.12e3	1.68	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10	2,3,4,7,8-PeCDF	6.88e3	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	38.86	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	138	0.191	3.48
18	13C-2,3,7,8-TCDF	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-OCDF	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

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



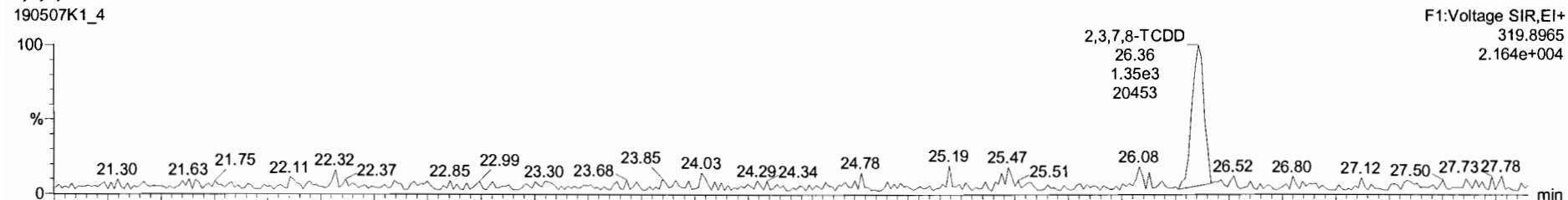
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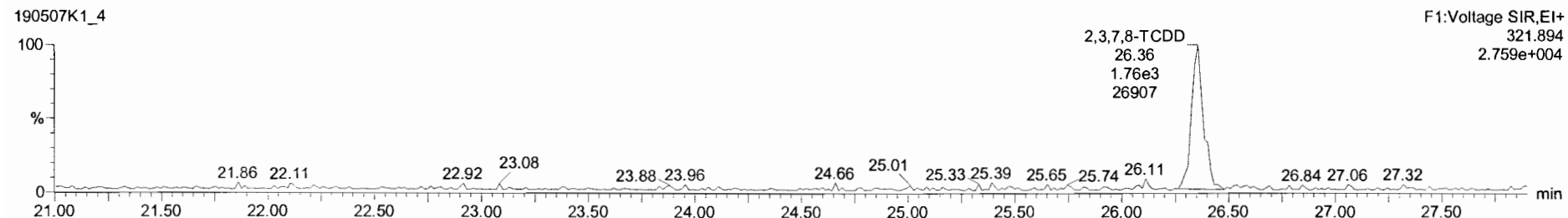
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**2,3,7,8-TCDD**

190507K1\_4



190507K1\_4

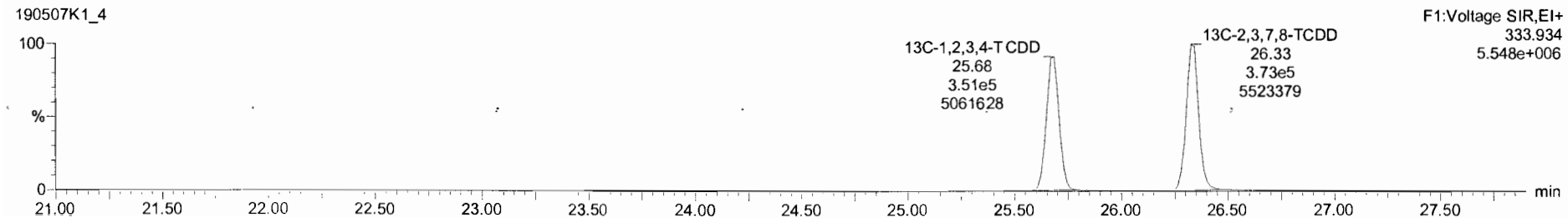


**13C-2,3,7,8-TCDD**

190507K1\_4



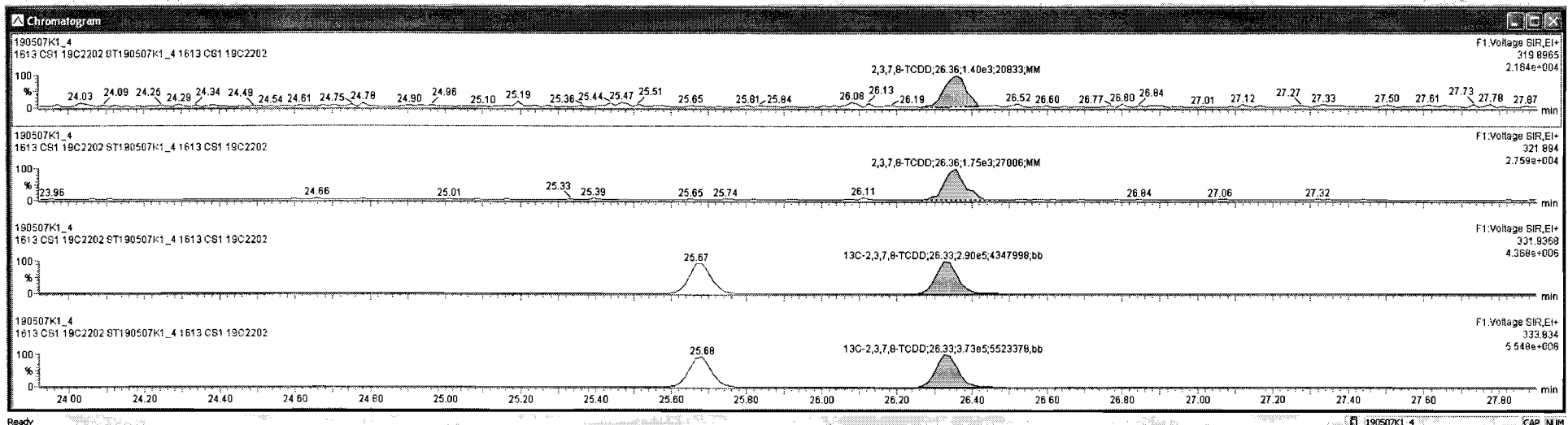
190507K1\_4



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	



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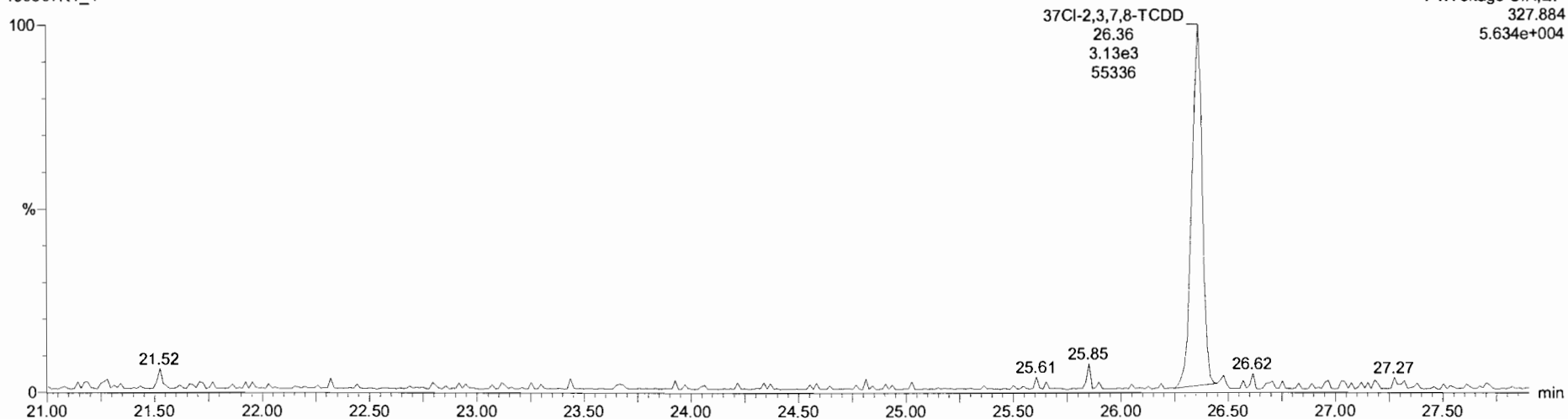
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1\_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202

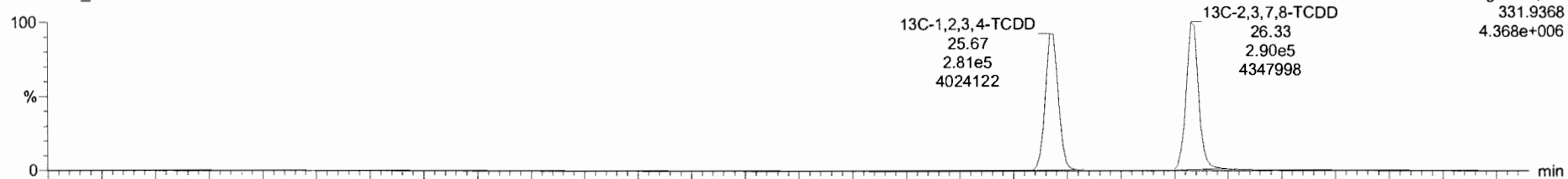
**37Cl-2,3,7,8-TCDD**

190507K1\_4

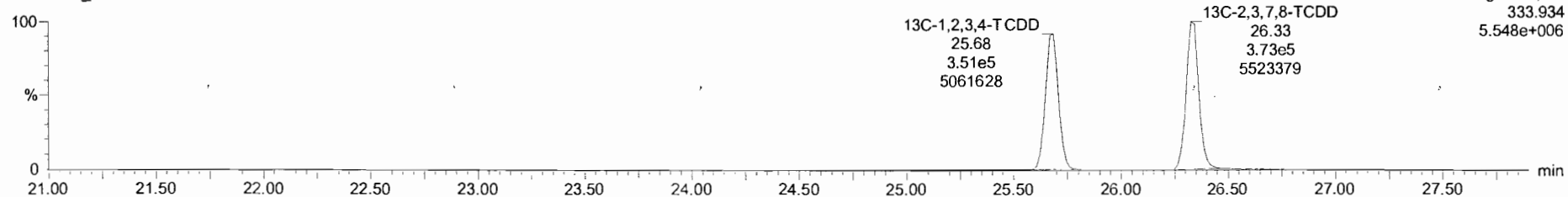


**13C-1,2,3,4-TCDD**

190507K1\_4



190507K1\_4





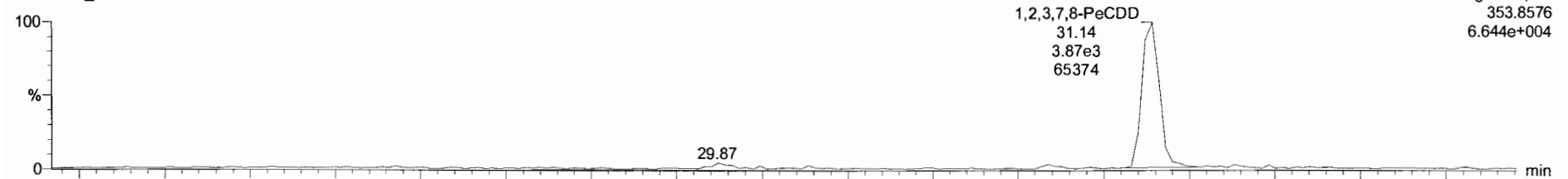
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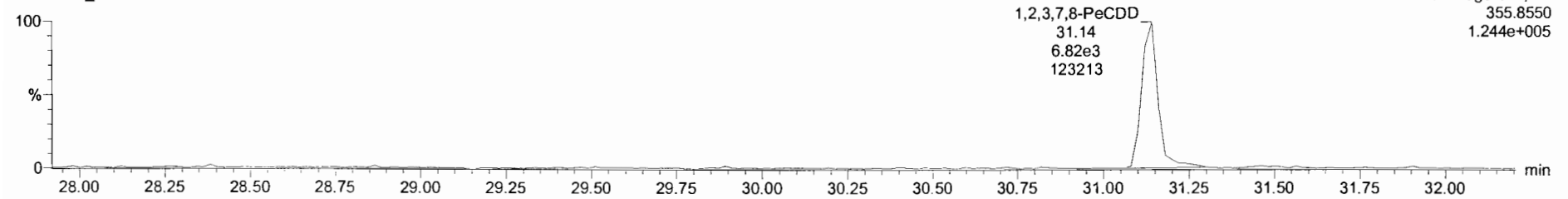
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**1,2,3,7,8-PeCDD**

190507K1\_4

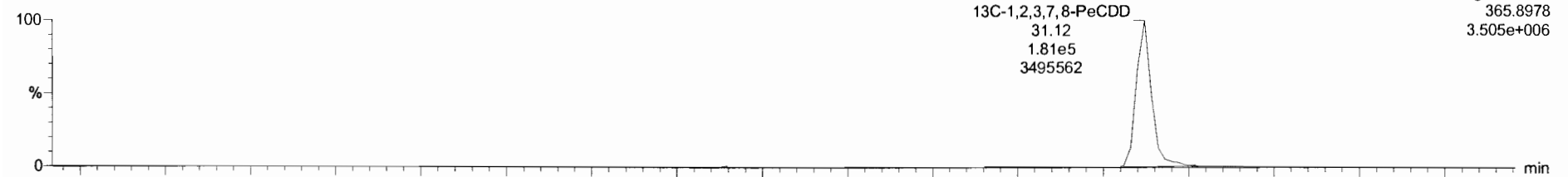


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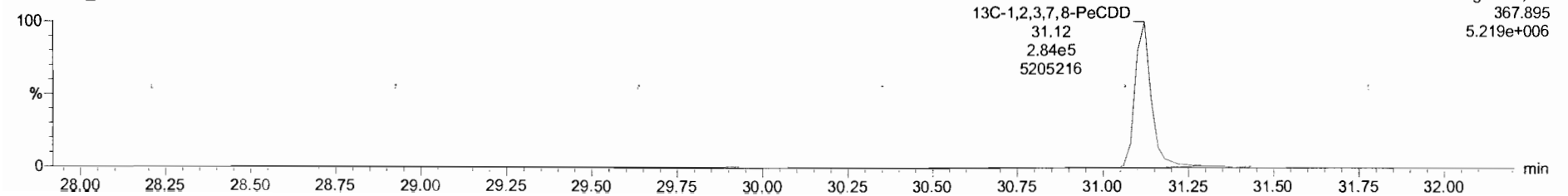


**13C-1,2,3,7,8-PeCDD**

190507K1\_4



190507K1\_4



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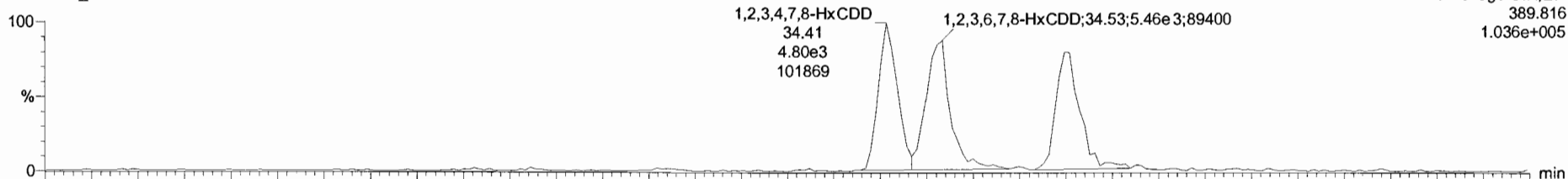
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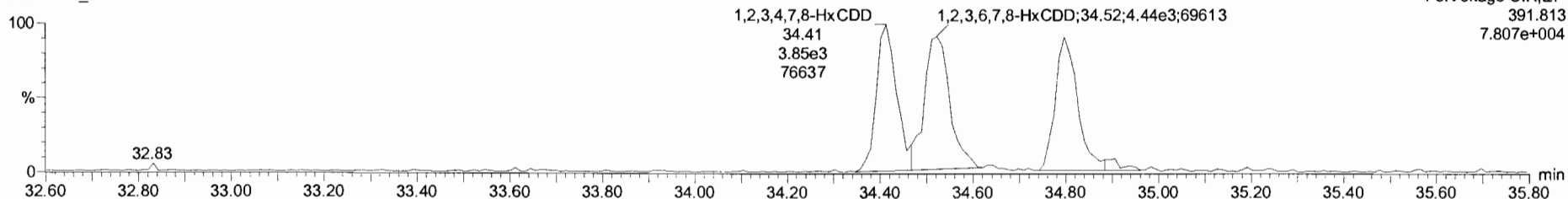
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**1,2,3,4,7,8-HxCDD**

190507K1\_4

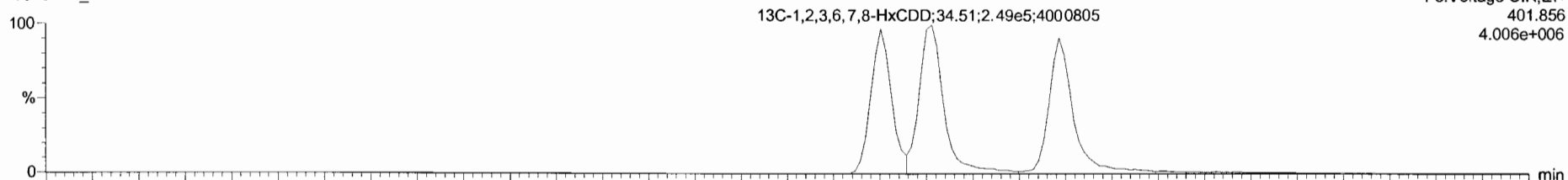


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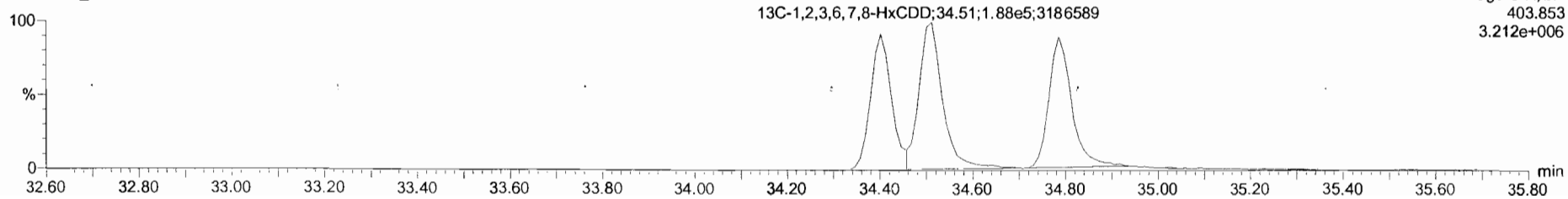


**13C-1,2,3,4,7,8-HxCDD**

190507K1\_4



190507K1\_4

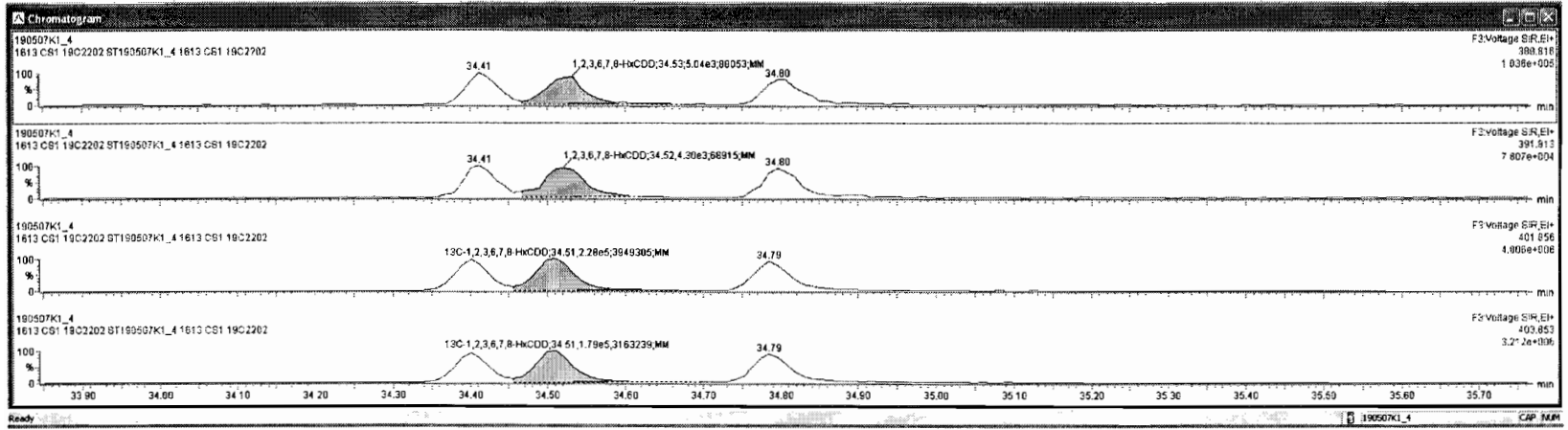


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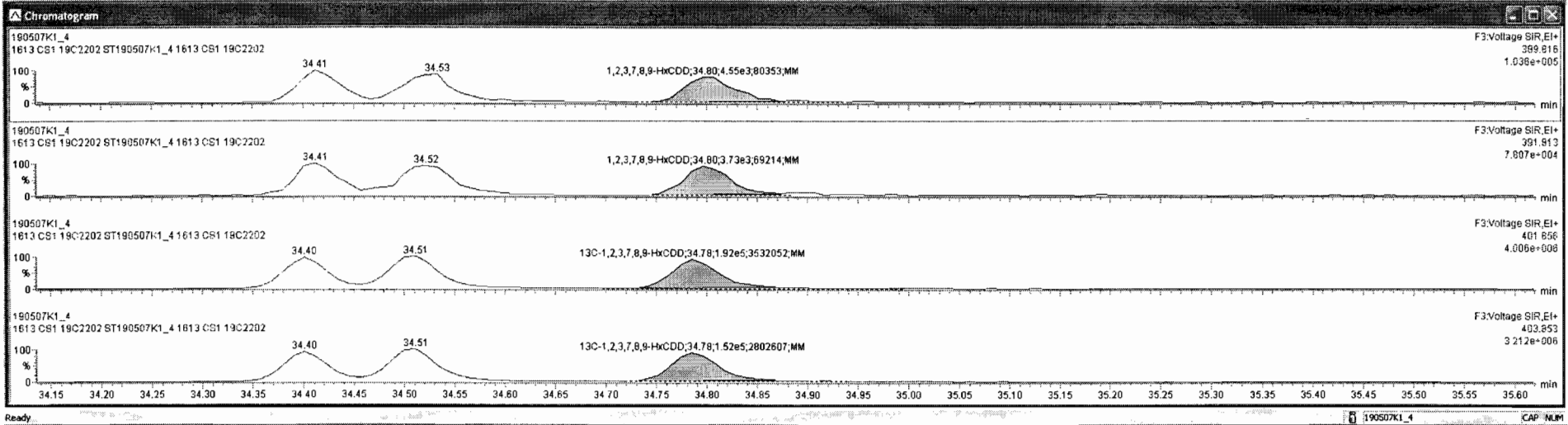
File Edit View Display Processing Window Help

190507K1\_4 - ST190507K1\_4 1613 CS1 19C2202 - 1613 CS1 19C2202

#	Name	Resp	RA	rv	FWF	wt-wt	RT	RRT	Conv.	%Wgt	DC	EWFC
1	1,2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.38	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	0.0732	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-HxCDF	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-HxCDF	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	1,2,3,6,7,8-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	96.9	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	26.33	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	



None	Resp	RA	Inv	RRF	WtVal	R1	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	0.95	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	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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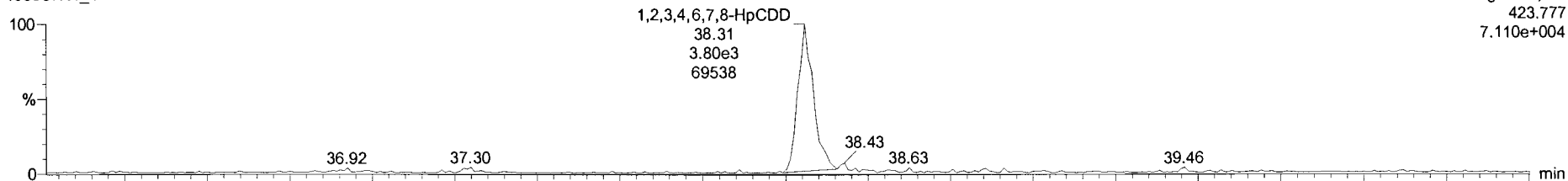
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

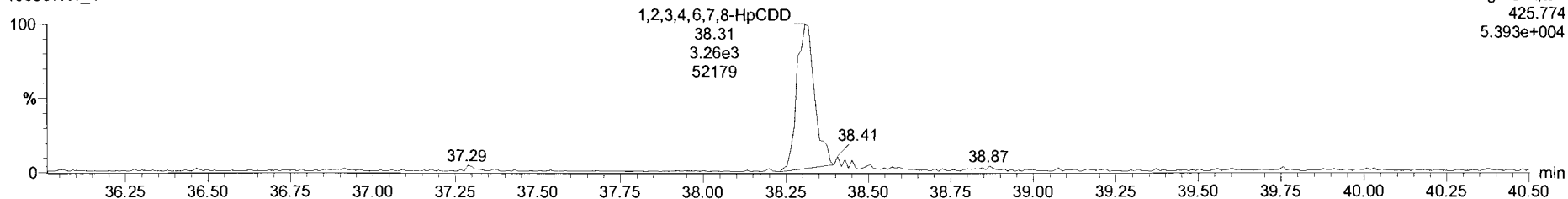
Name: 190507K1\_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1\_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202

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

190507K1\_4

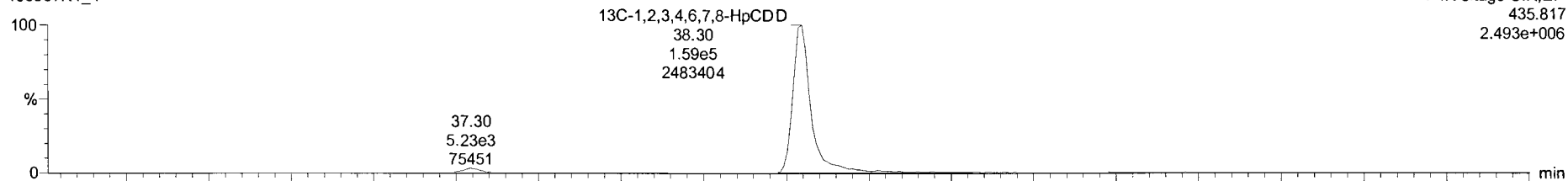


190507K1\_4

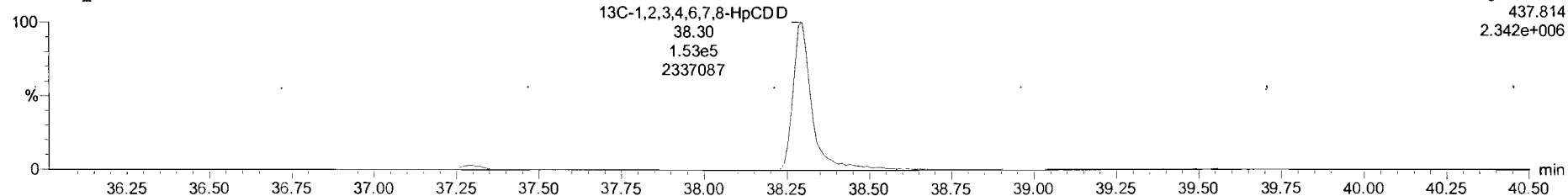


**13C-1,2,3,4,6,7,8-HpCDD**

190507K1\_4



190507K1\_4

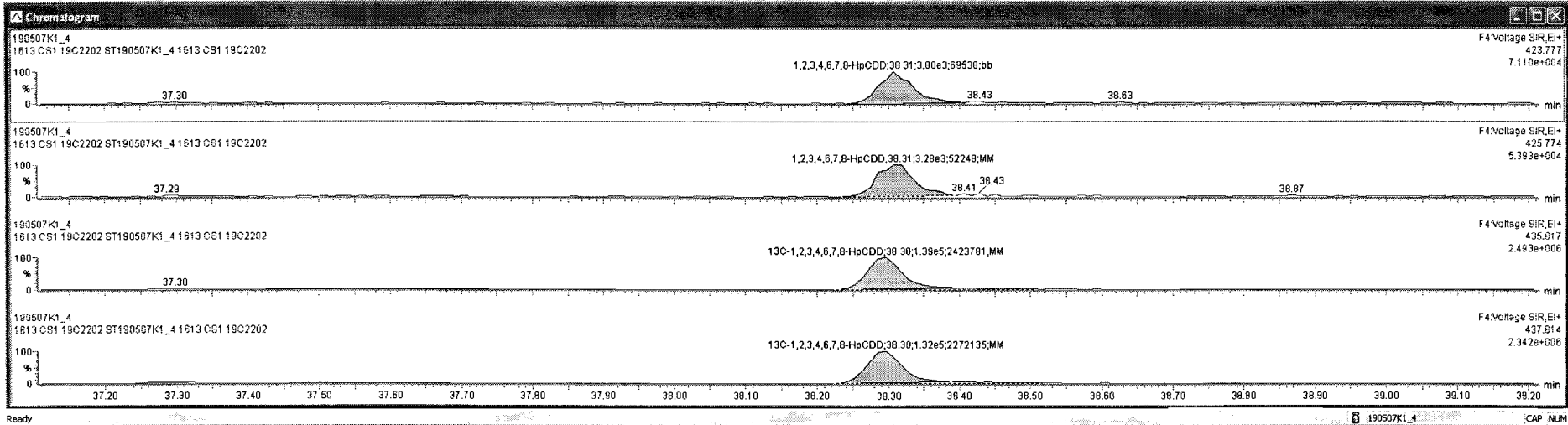


TargetLynx 190507K1.CRV.qld

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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

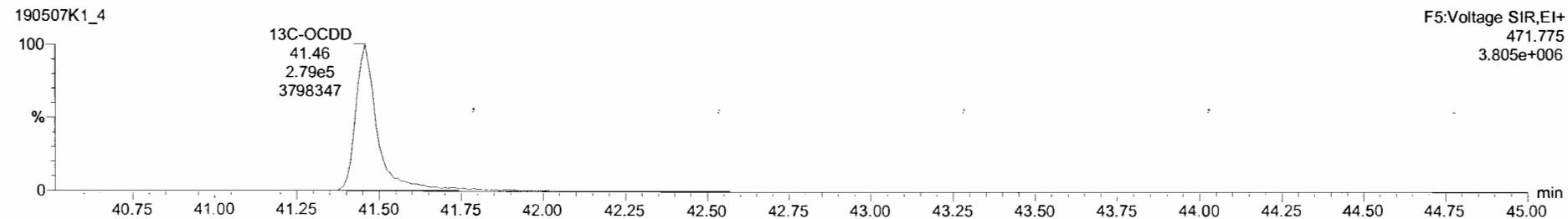
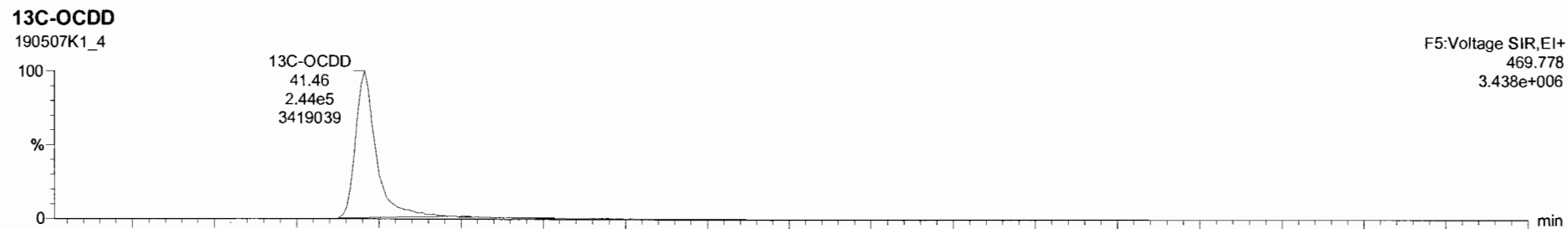
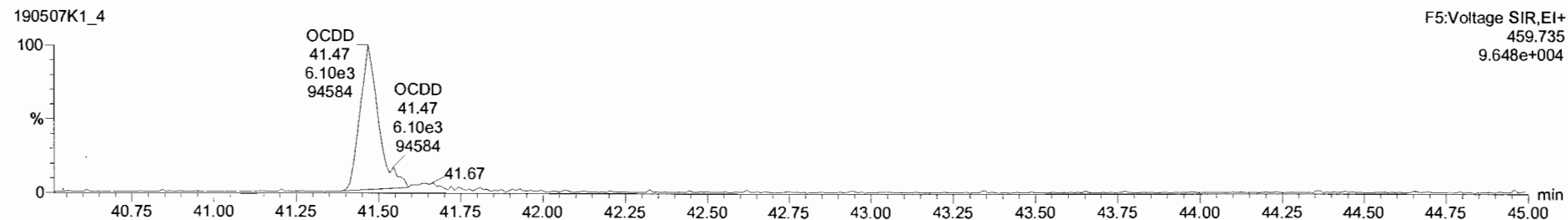
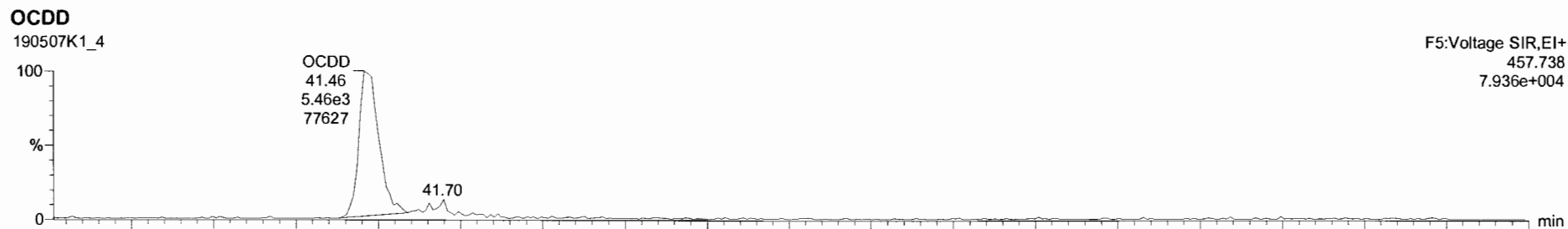


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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

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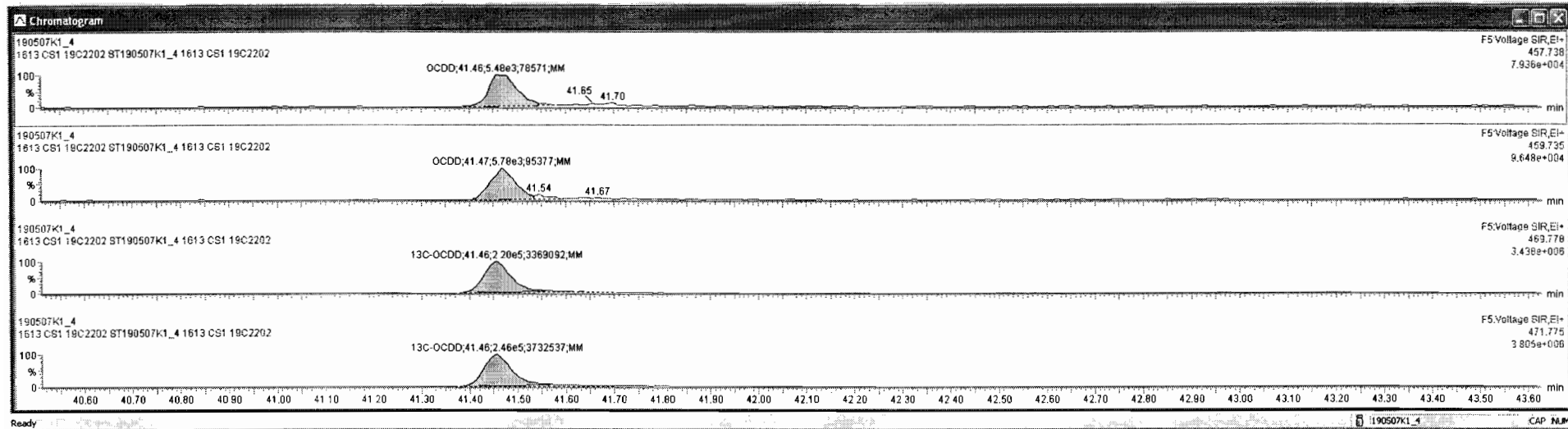


Targetil.ynx - 190507K1-CRW.gld

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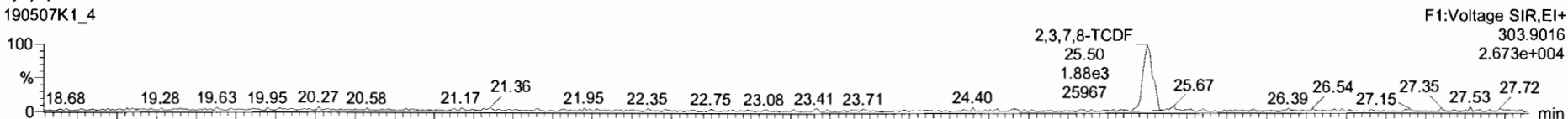
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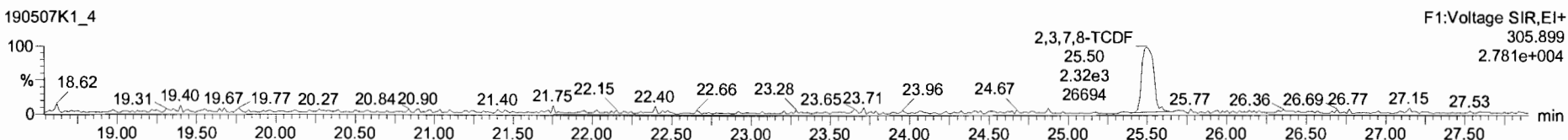
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**2,3,7,8-TCDF**

190507K1\_4

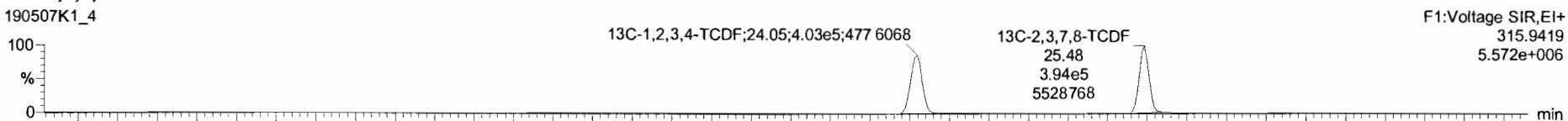


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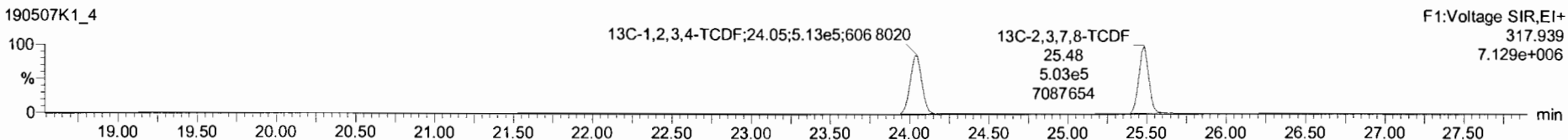


**13C-2,3,7,8-TCDF**

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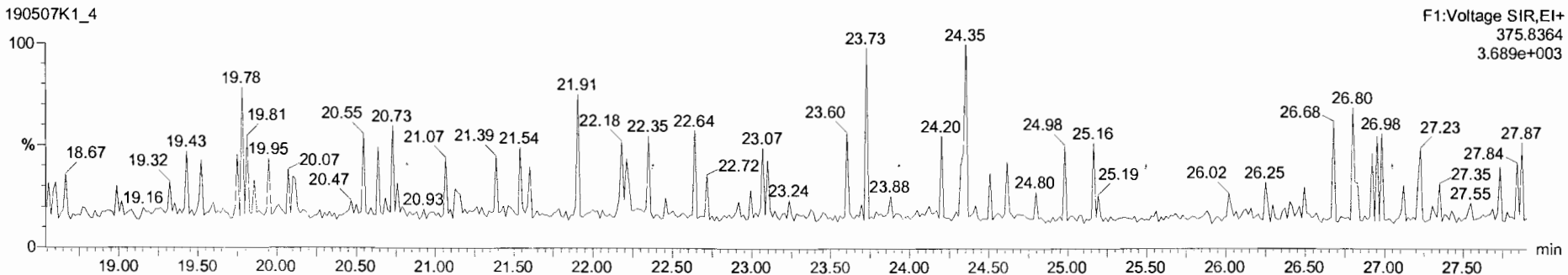


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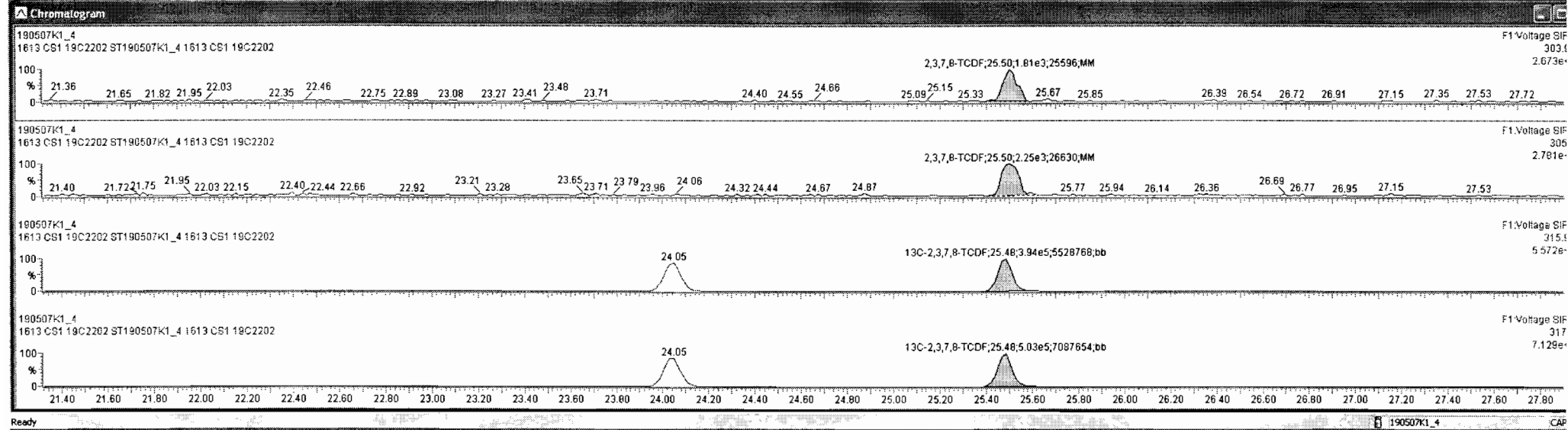


**DPE1**

190507K1\_4



Name	Resp	RA	nY	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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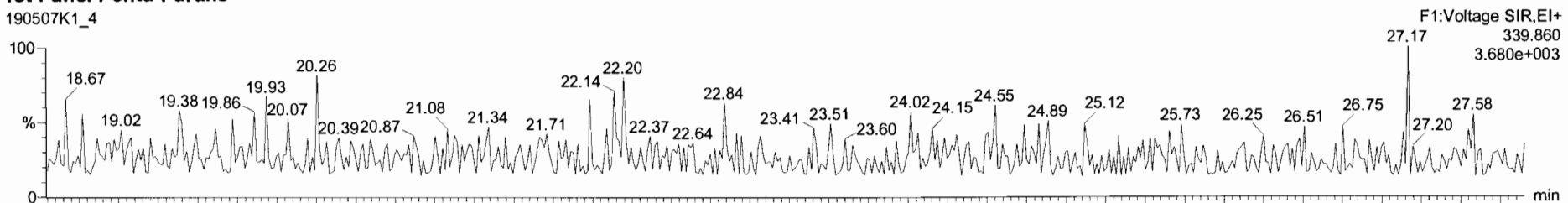
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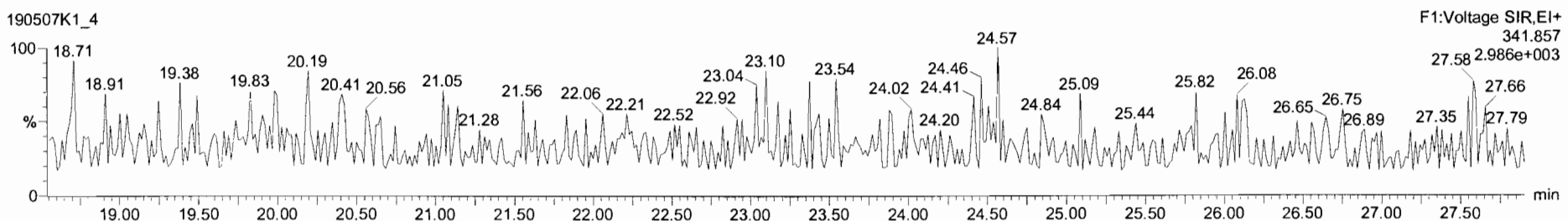
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190507K1\_4

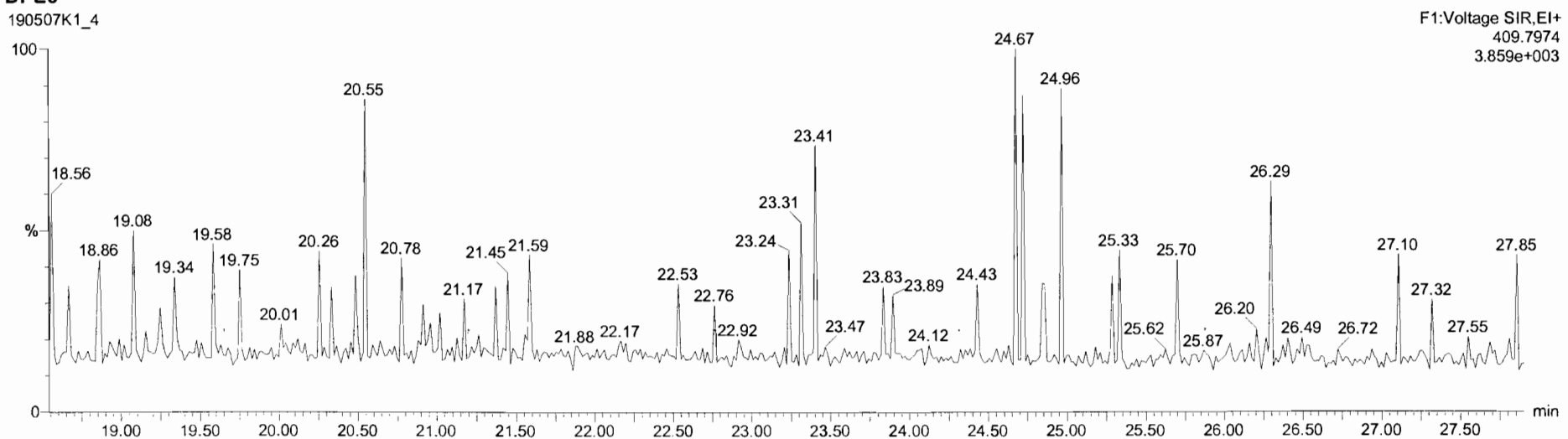


190507K1\_4



DPE6

190507K1\_4



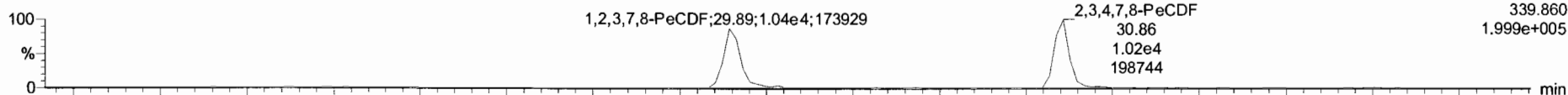
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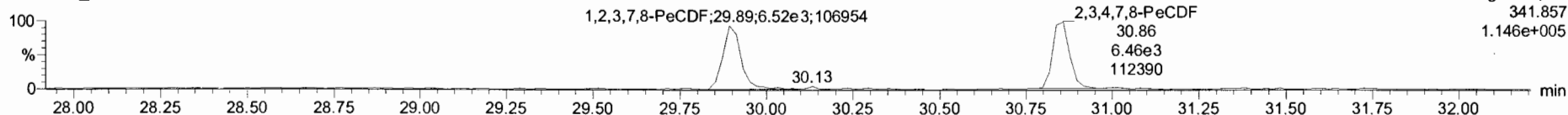
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**1,2,3,7,8-PeCDF**

190507K1\_4

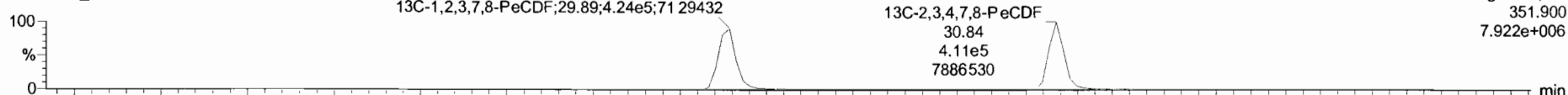


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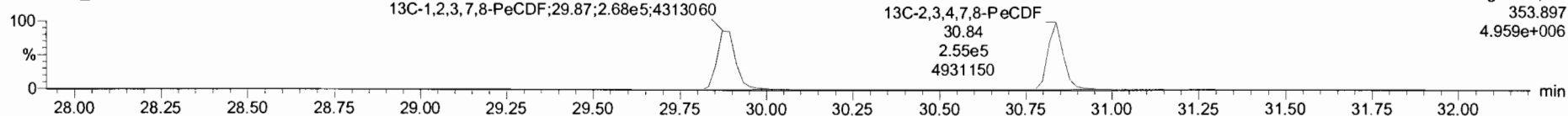


**13C-1,2,3,7,8-PeCDF**

190507K1\_4

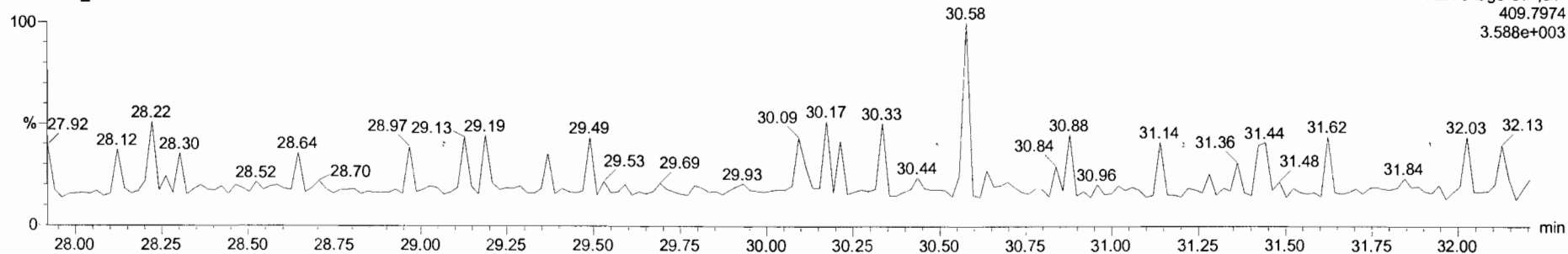


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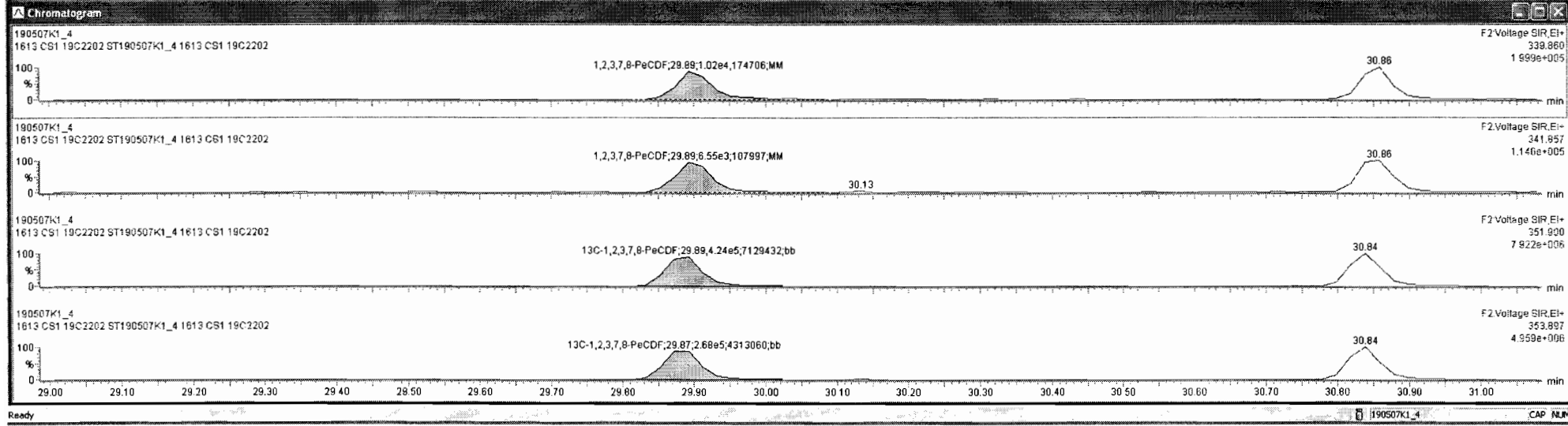
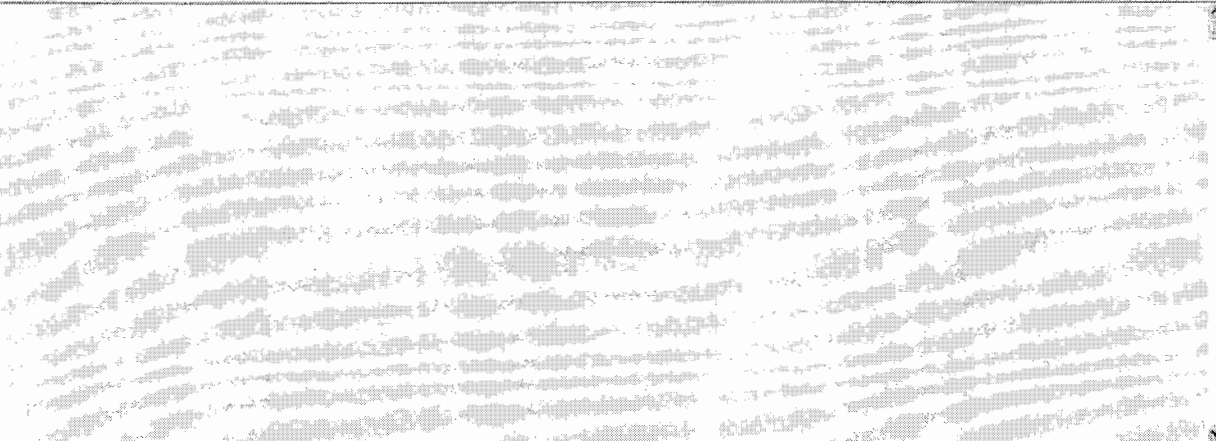
**DPE2**

190507K1\_4



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	8.28e3	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	1.87e4	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	



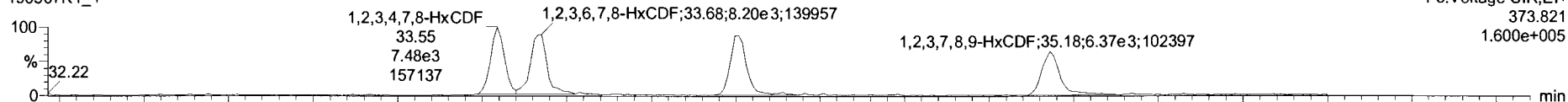
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

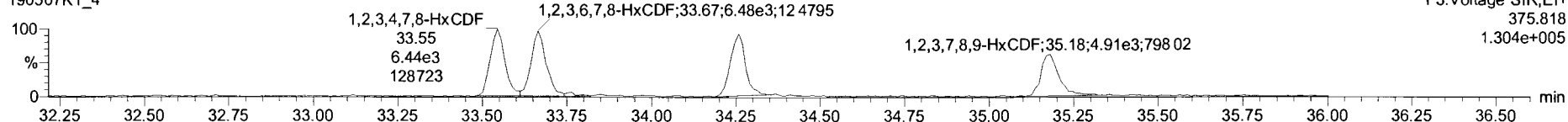
Name: 190507K1\_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1\_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202

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

190507K1\_4

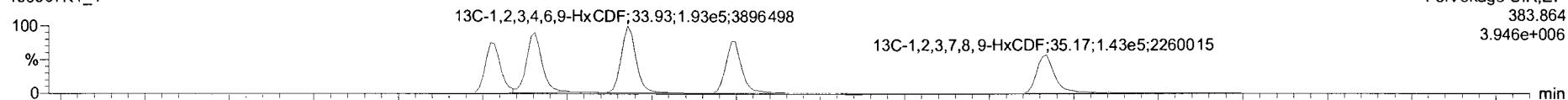


190507K1\_4

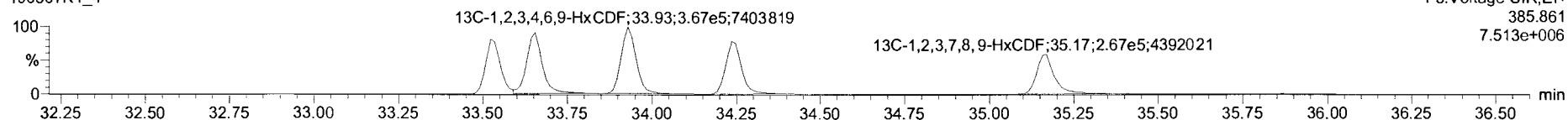


**13C-1,2,3,4,7,8-HxCDF**

190507K1\_4

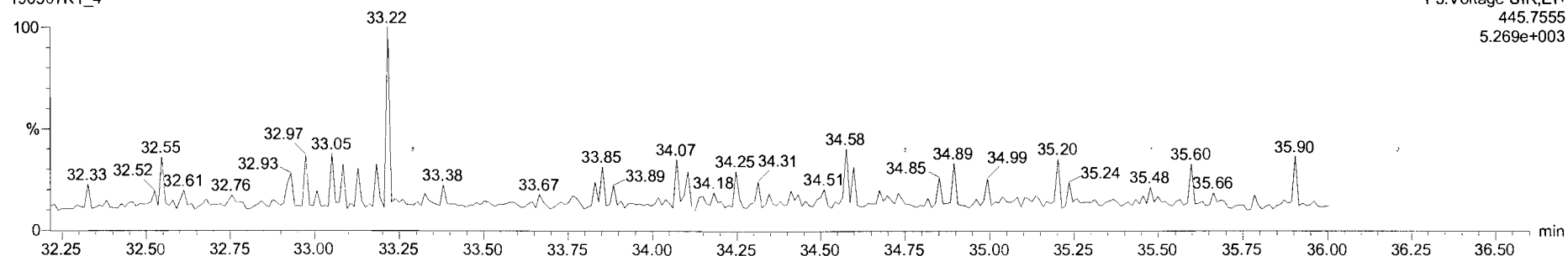


190507K1\_4



**DPE3**

190507K1\_4

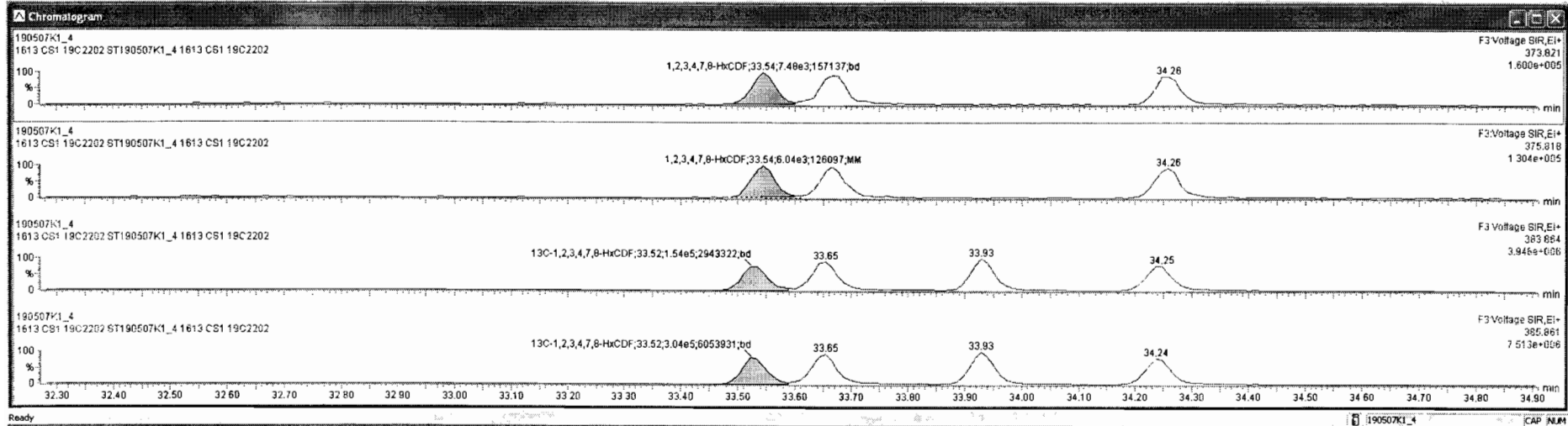


Target1.ynx - 190507K1\_CRV.gld

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	1,2,3,7,8,9-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	4.08e3	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	1,2,3,7,8,9-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	6.64e5	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	34.78	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	

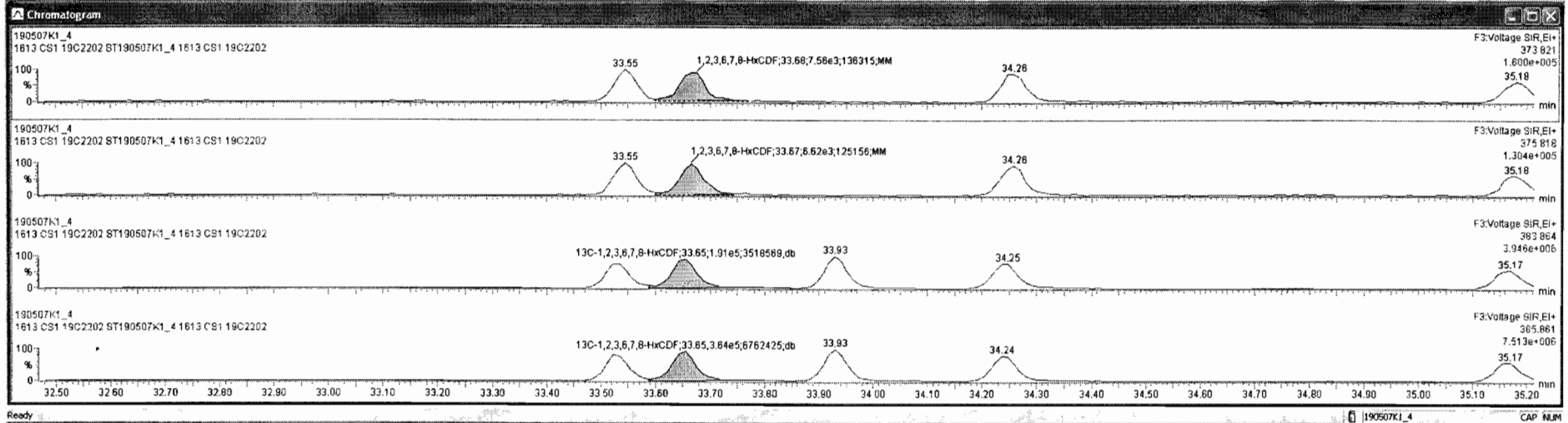


Target.ynx - 190507K1\_CRV.qld

File Edit View Display Processing Window Help

190507K1\_4 - ST190507K1\_4 1613 CS1 19C2202 - 1613 CS1 19C2202

#	Name	Resp	RA	INJ	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	

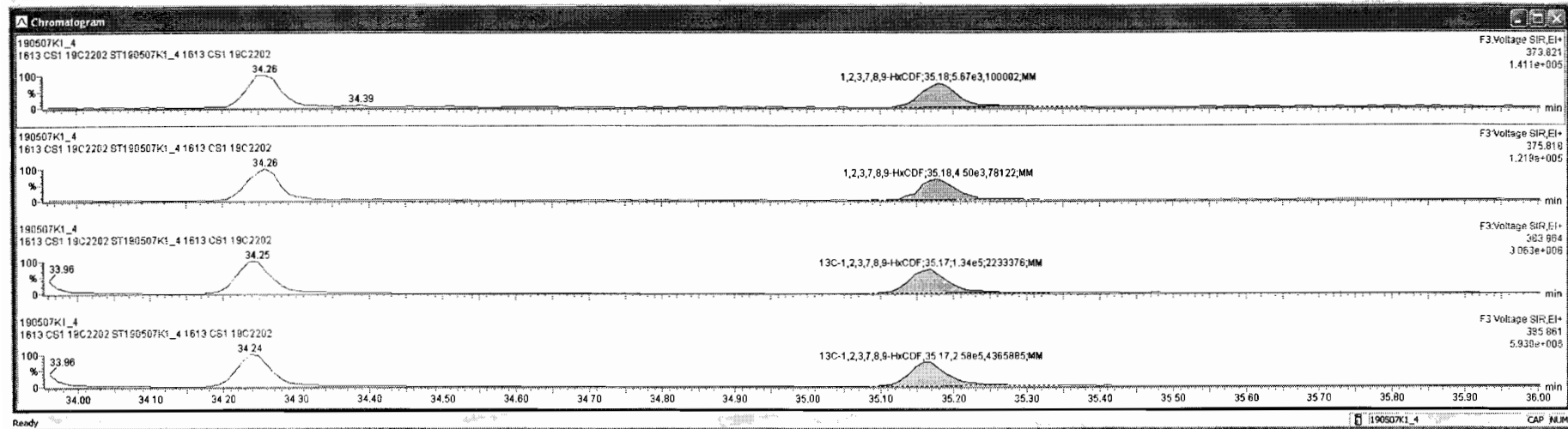




TargetLynx - 190507K1\_CRY.gid  
 File Edit View Display Processing Window Help

190507K1\_4 # ST190507K1\_4 1613 CS1 19C2202 - 1613 CS1 19C2202

Peak	Name	Resp	RA	nW	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	97.6	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	



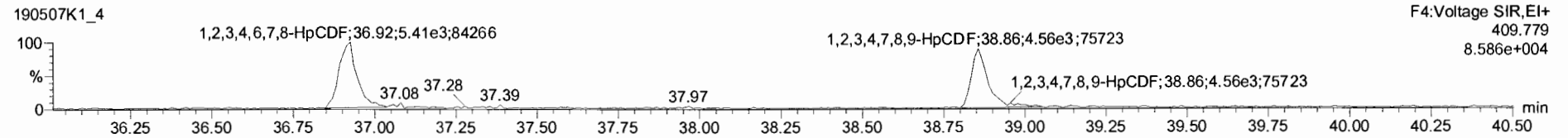
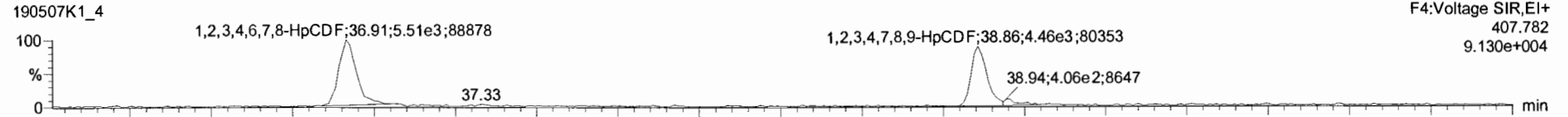
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

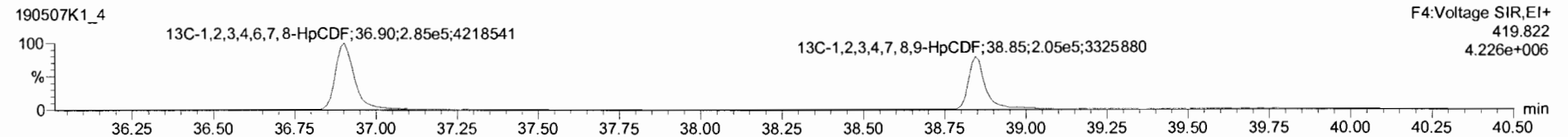
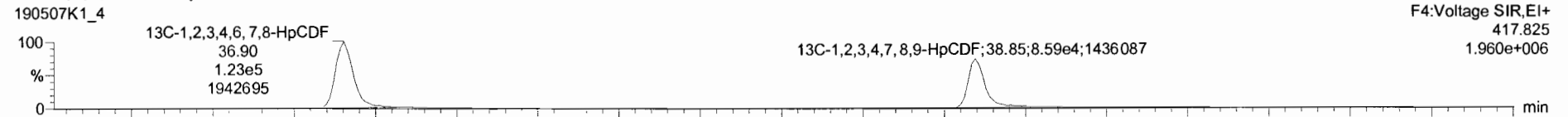
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1\_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202

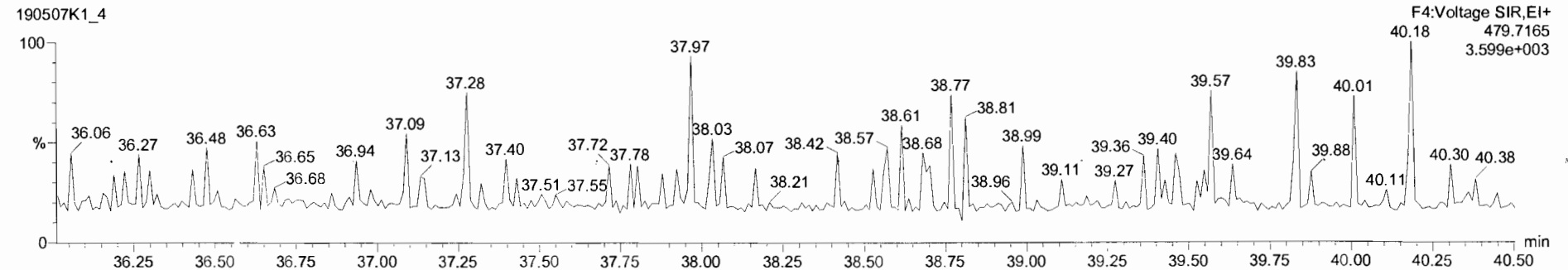
**1,2,3,4,6,7,8-HpCDF**



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



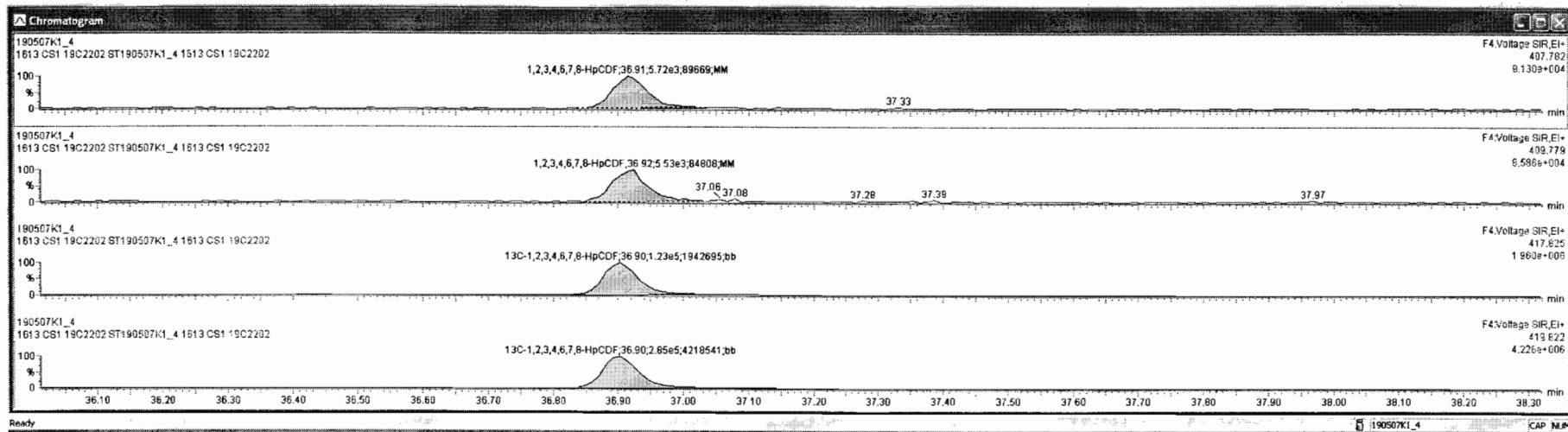
**DPE4**



Target: ynx - 190507K1\_CRV.gld  
 File Edit View Display Processing Window Help

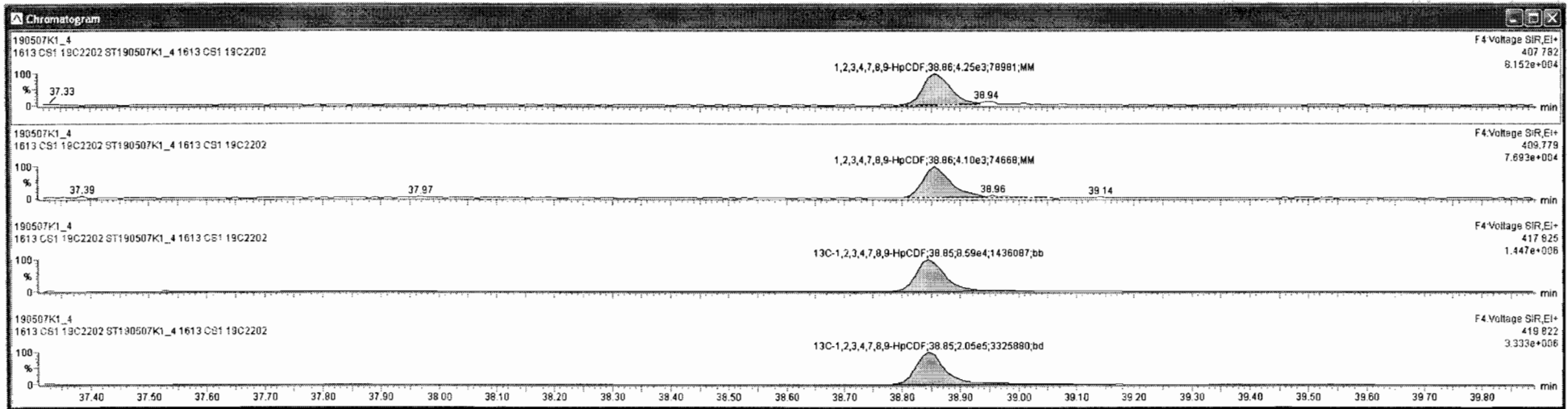
190507K1\_4 - ST190507K1\_4\_1613 CS1 19C2202 - 1613 CS1 19C2202

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	0.0897	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	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		
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		
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		
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		
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		
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		

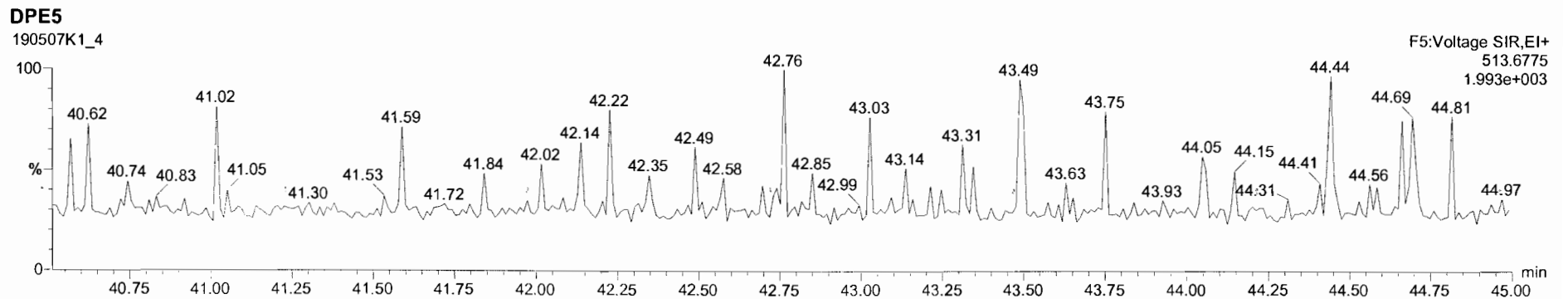
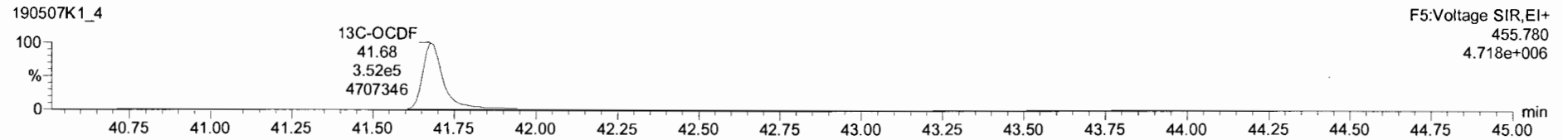
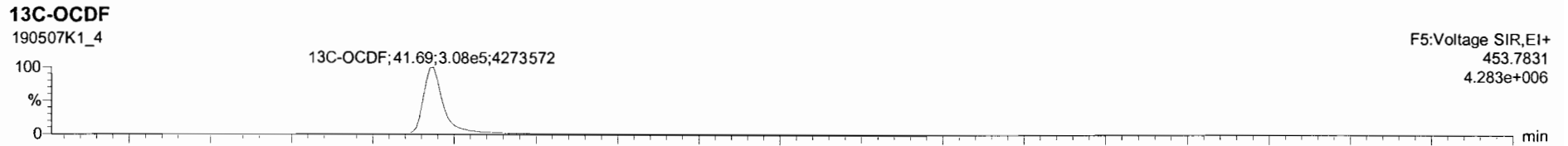
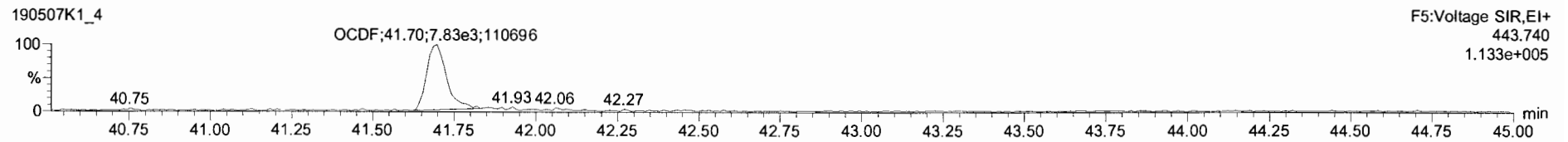
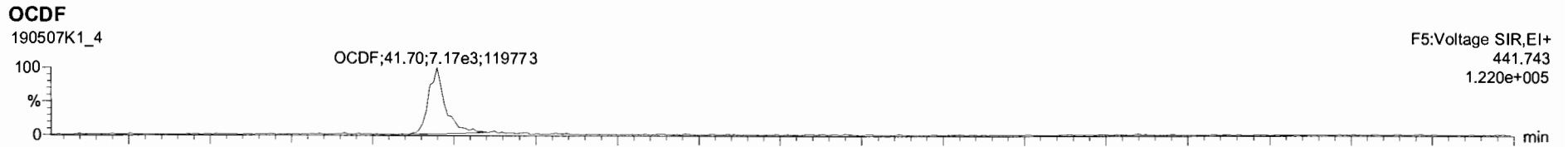


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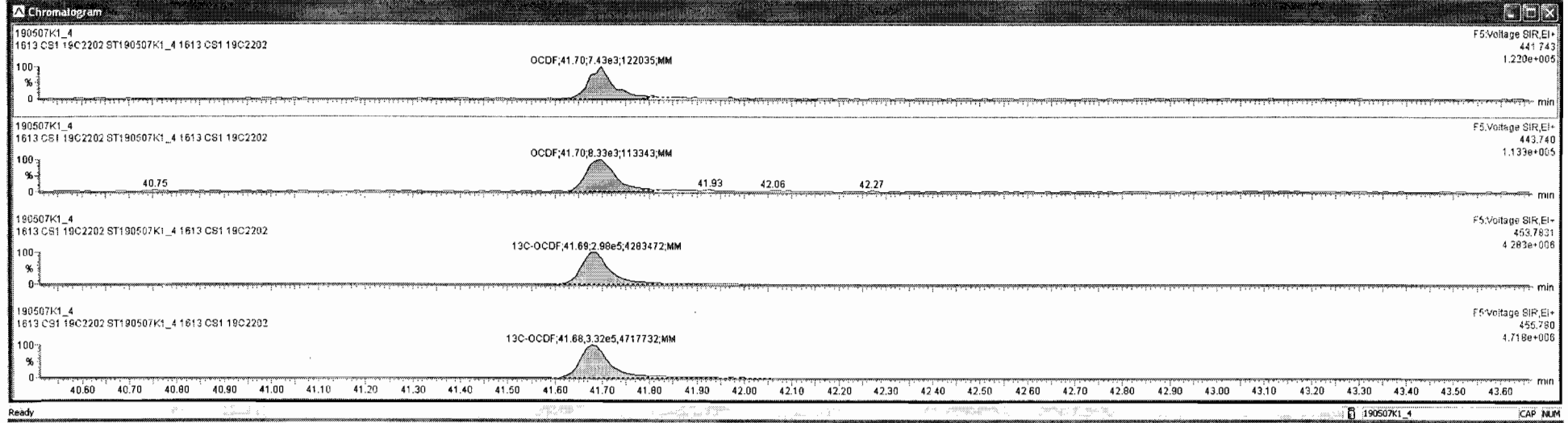
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1\_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202



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	



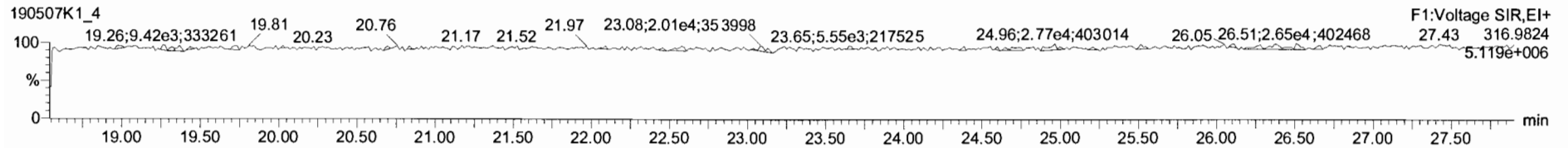
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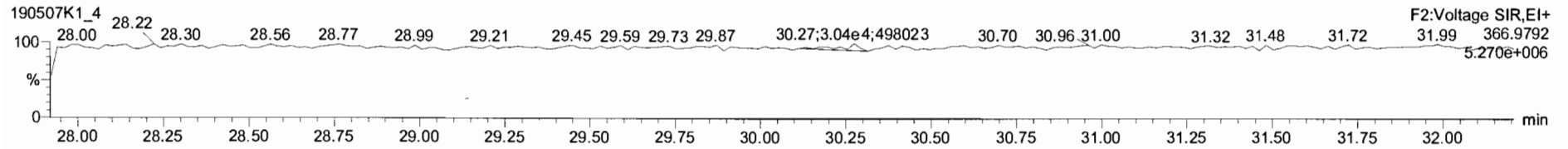
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Name: 190507K1\_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1\_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202

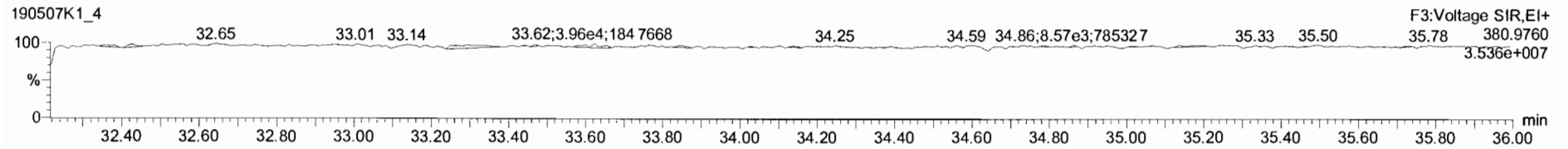
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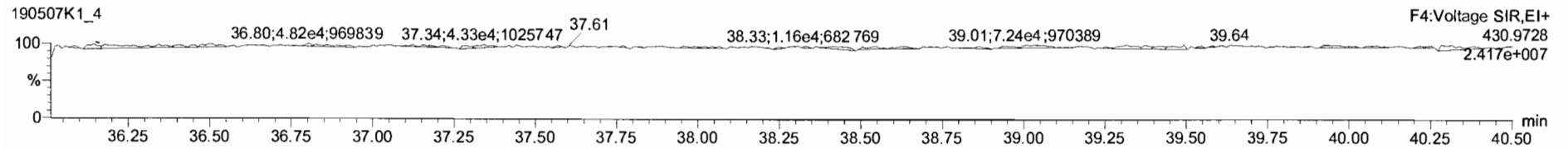
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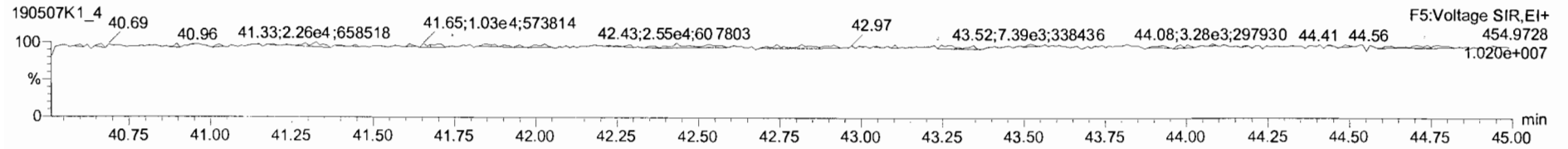
**PFK3**



**PFK4**



**PFK5**



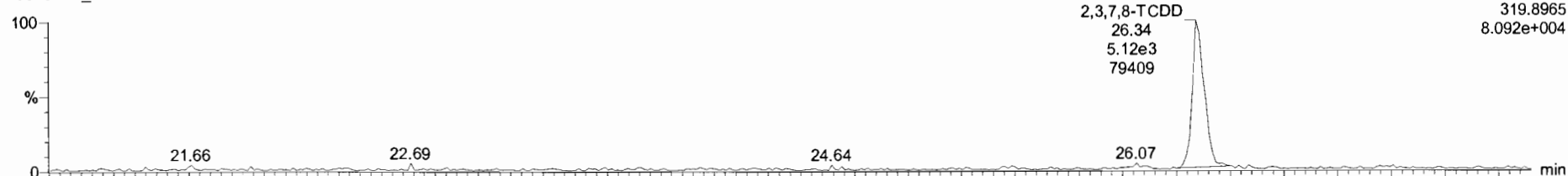
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

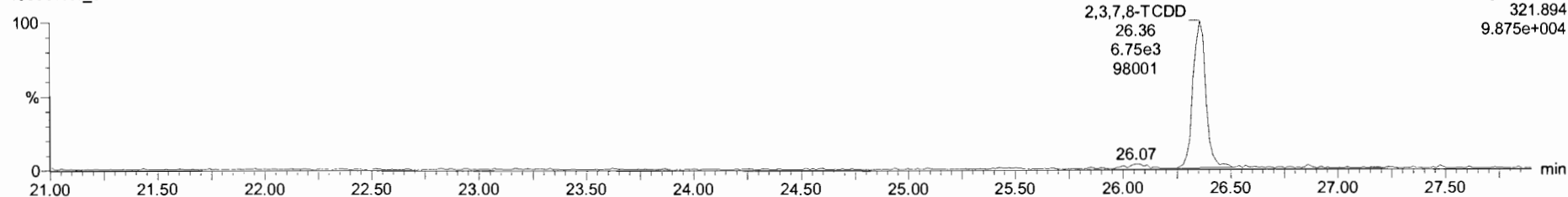
Name: 190507K1\_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1\_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203

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

190507K1\_5



190507K1\_5

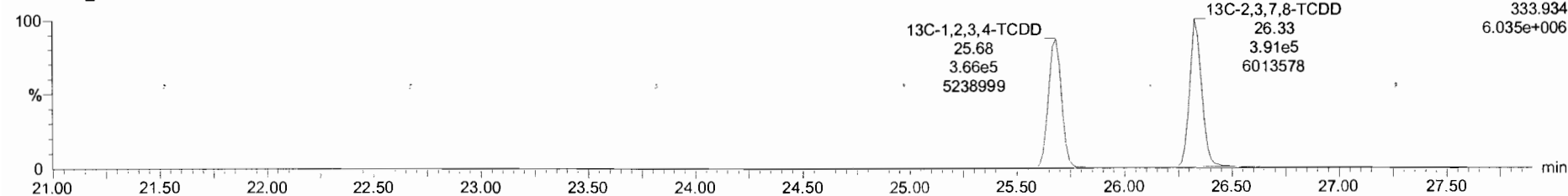


**13C-2,3,7,8-TCDD**

190507K1\_5



190507K1\_5



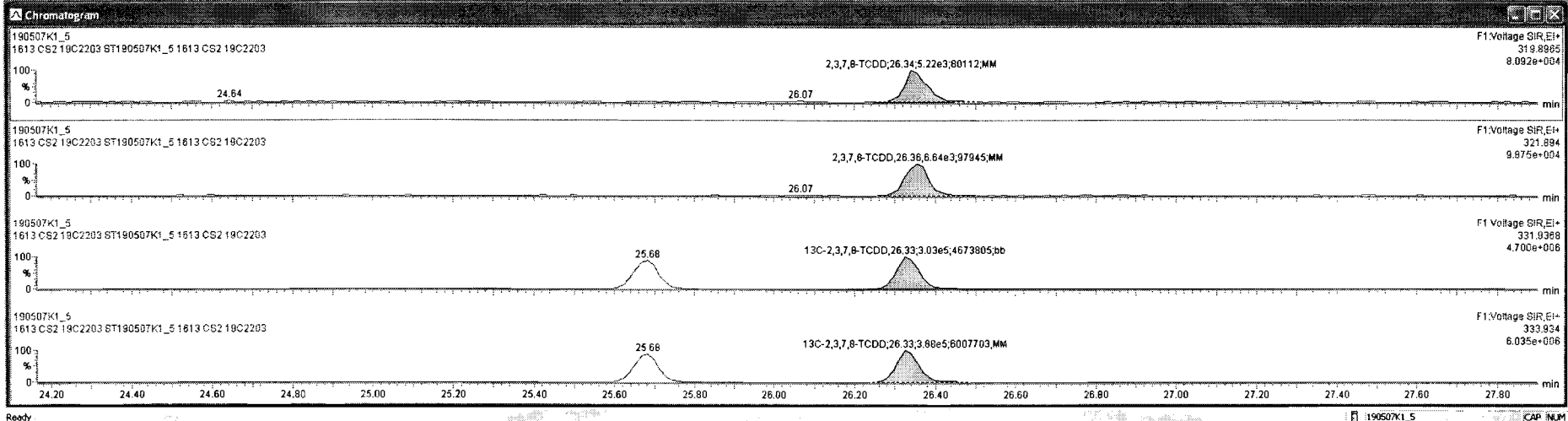


Targetlynx 190507K1.CRY.qtd

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190507K1\_5 - ST190507K1\_5 1613 CS2 19C2203 - 1613 CS2 19C2203

Name	Resp	RA	NY	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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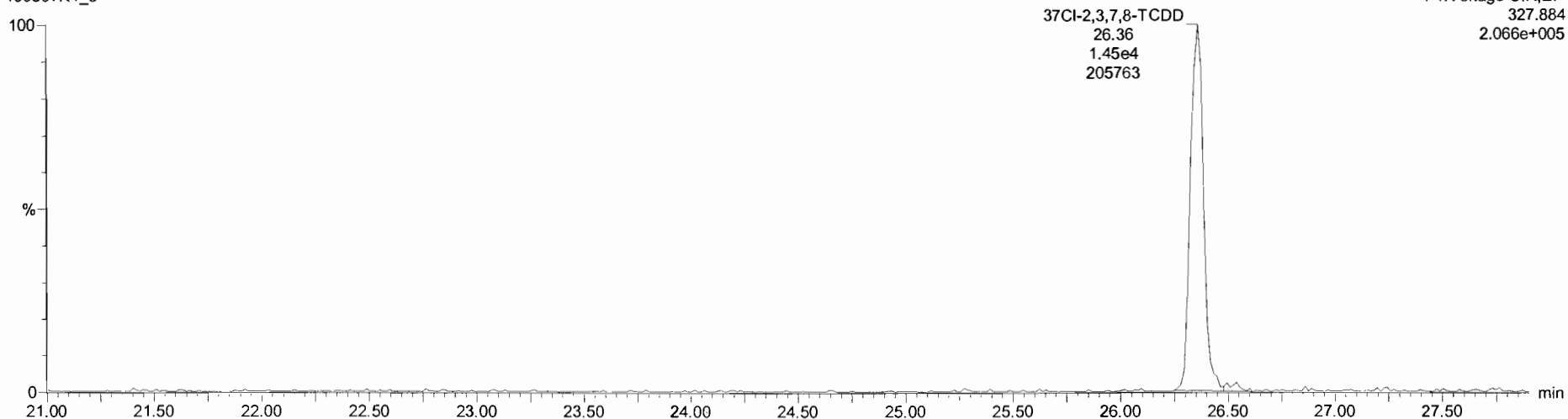
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1\_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203

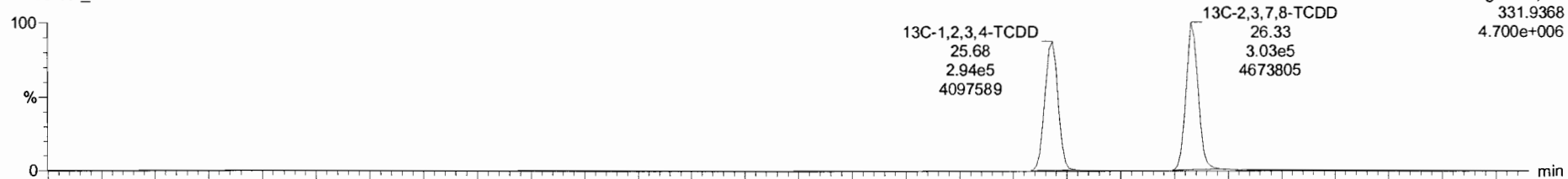
**37Cl-2,3,7,8-TCDD**

190507K1\_5

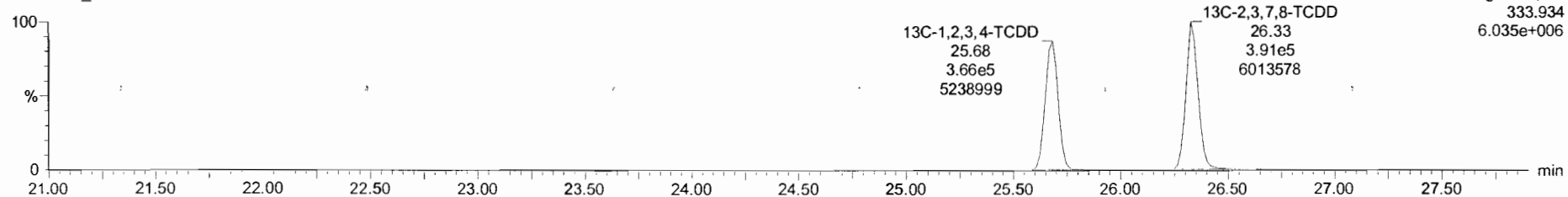


**13C-1,2,3,4-TCDD**

190507K1\_5



190507K1\_5



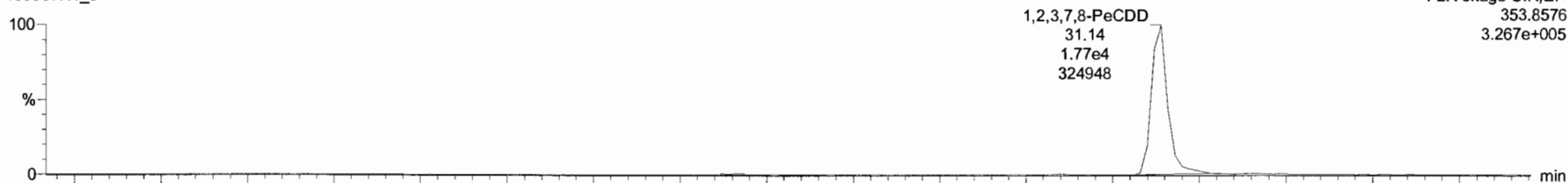
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

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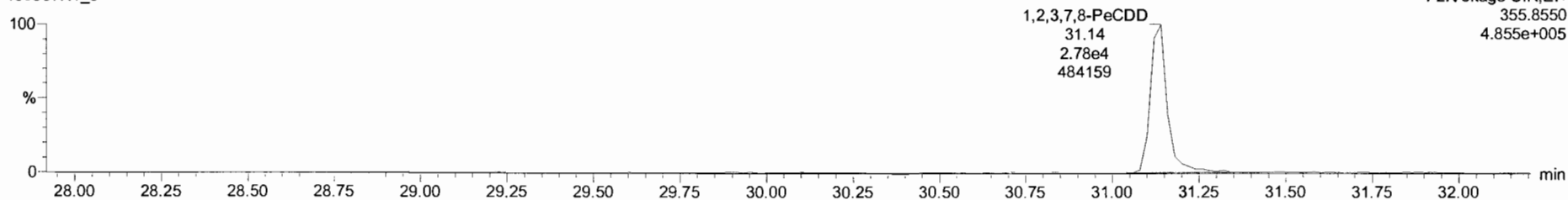
**1,2,3,7,8-PeCDD**

190507K1\_5



F2:Voltage SIR,EI+  
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3.267e+005

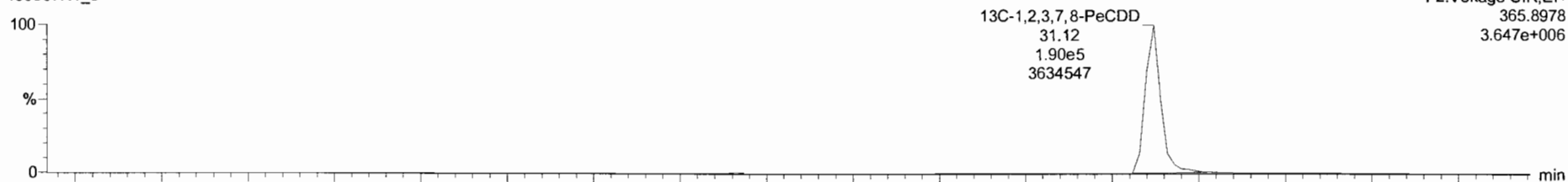
190507K1\_5



F2:Voltage SIR,EI+  
355.8550  
4.855e+005

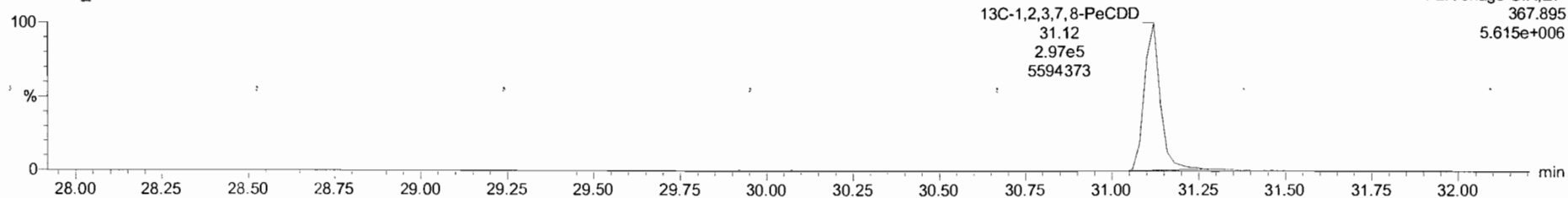
**13C-1,2,3,7,8-PeCDD**

190507K1\_5



F2:Voltage SIR,EI+  
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3.647e+006

190507K1\_5



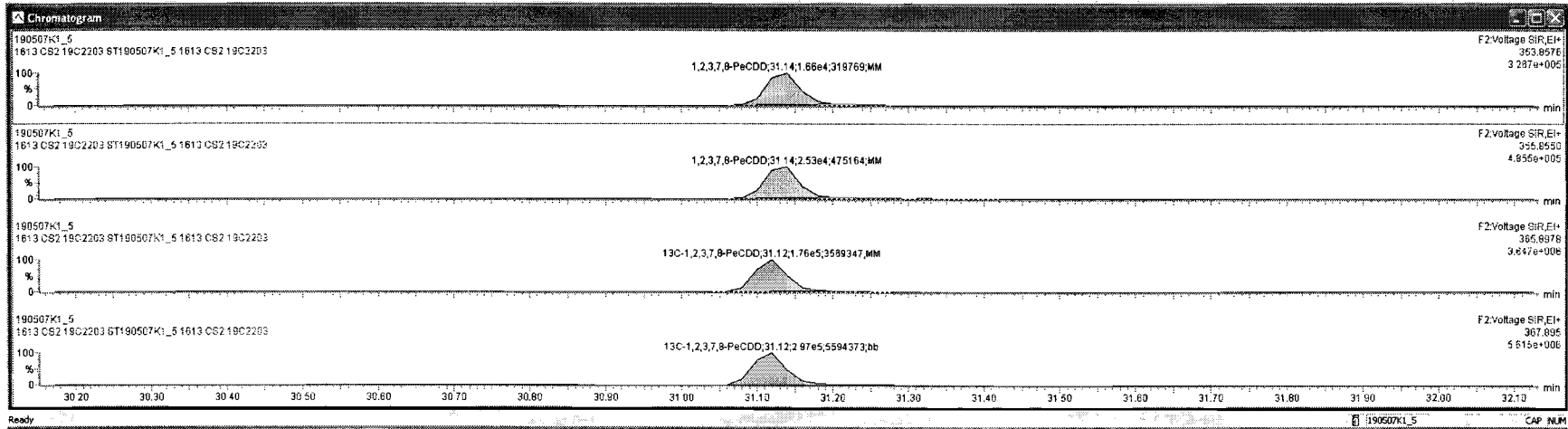
F2:Voltage SIR,EI+  
367.895  
5.615e+006

Target1.ynx - 190507K1-CRV.qld

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190507K1\_5-ST190507K1\_5 1613 CS2 19C2203 - 1613 CS2 19C2203

Peak	Name	Resp	RA	nV	RPF	wt/mol	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	0.161	9.80
16	1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.86	1.002	9.02	90.2	0.169	9.02
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

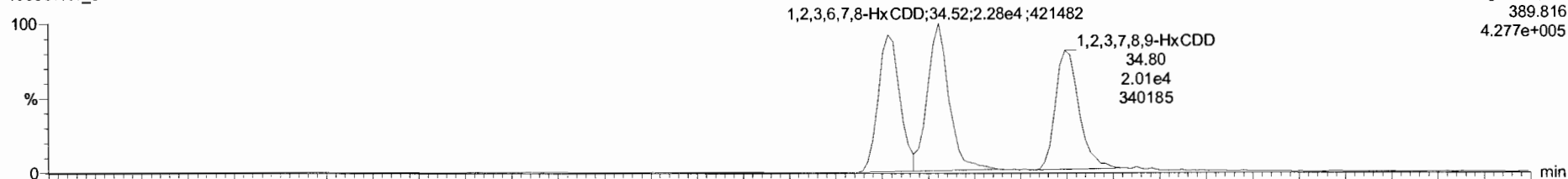
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

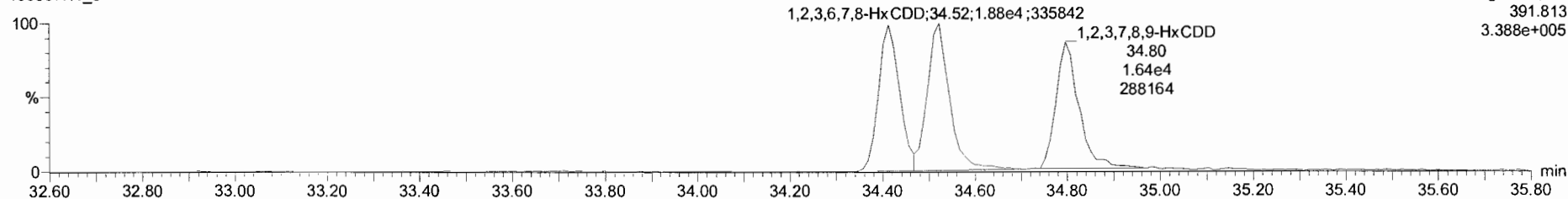
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**1,2,3,4,7,8-HxCDD**

190507K1\_5

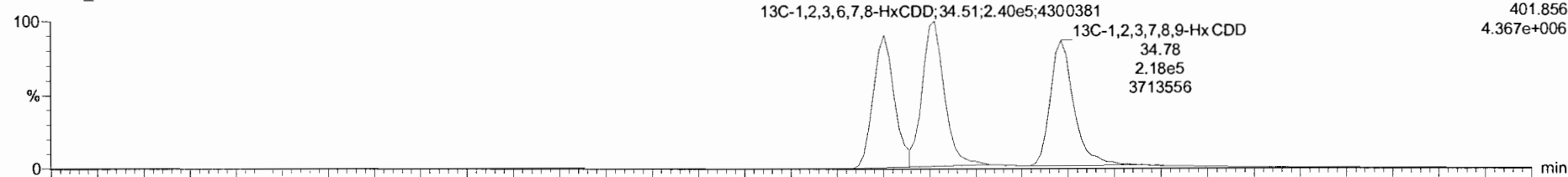


190507K1\_5

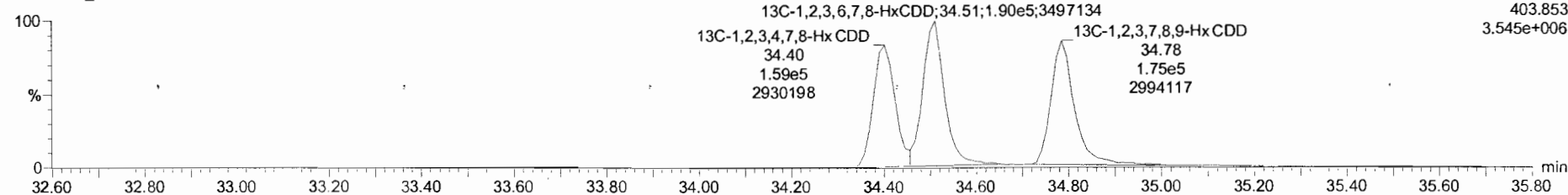


**13C-1,2,3,4,7,8-HxCDD**

190507K1\_5



190507K1\_5

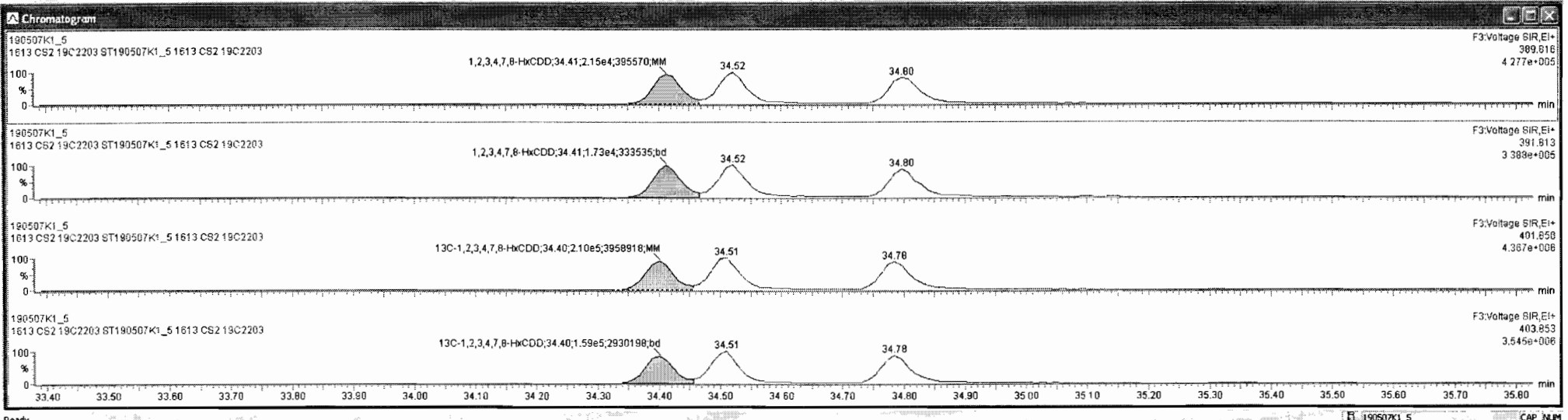


Target1.ymx - 190507K1\_CRV.qld

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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	



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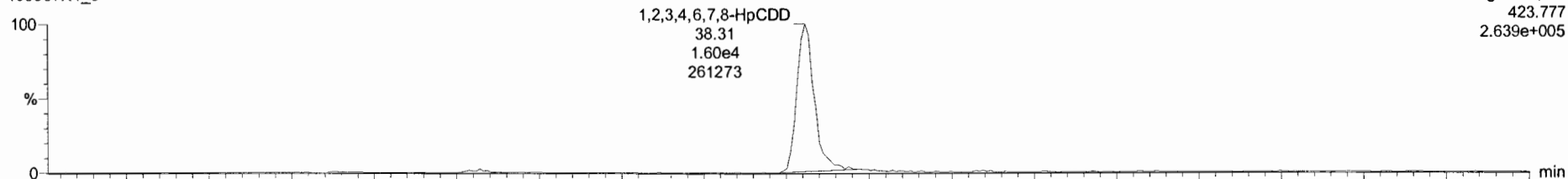
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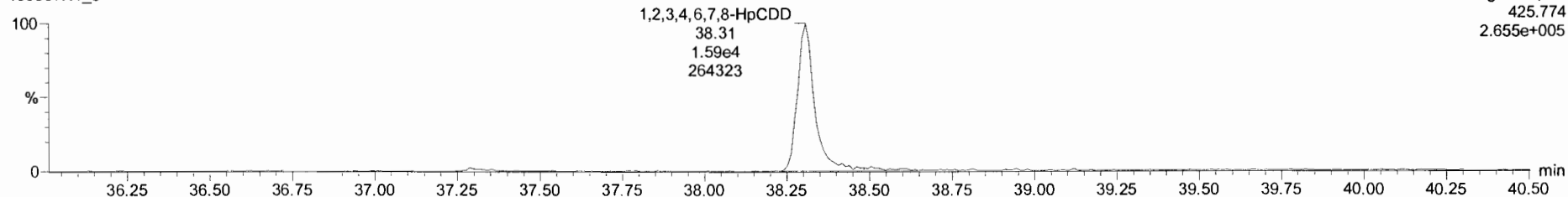
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**1,2,3,4,6,7,8-HpCDD**

190507K1\_5

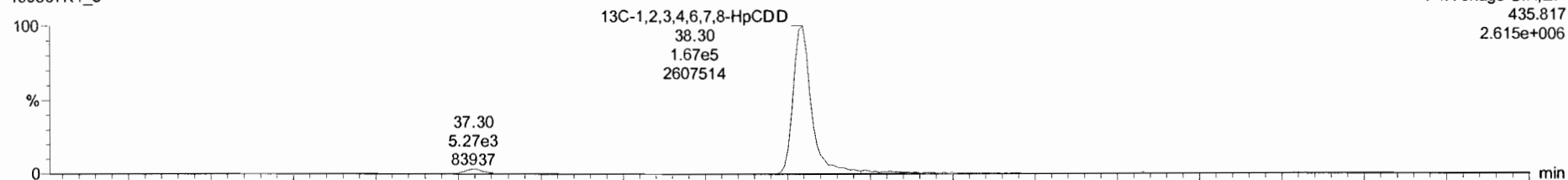


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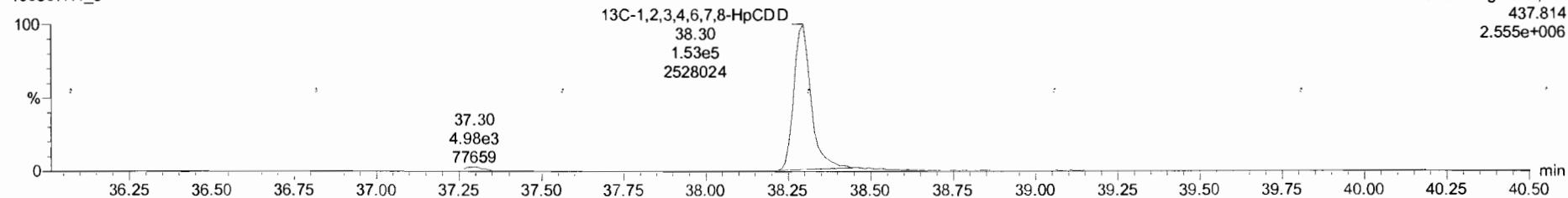


**13C-1,2,3,4,6,7,8-HpCDD**

190507K1\_5



190507K1\_5

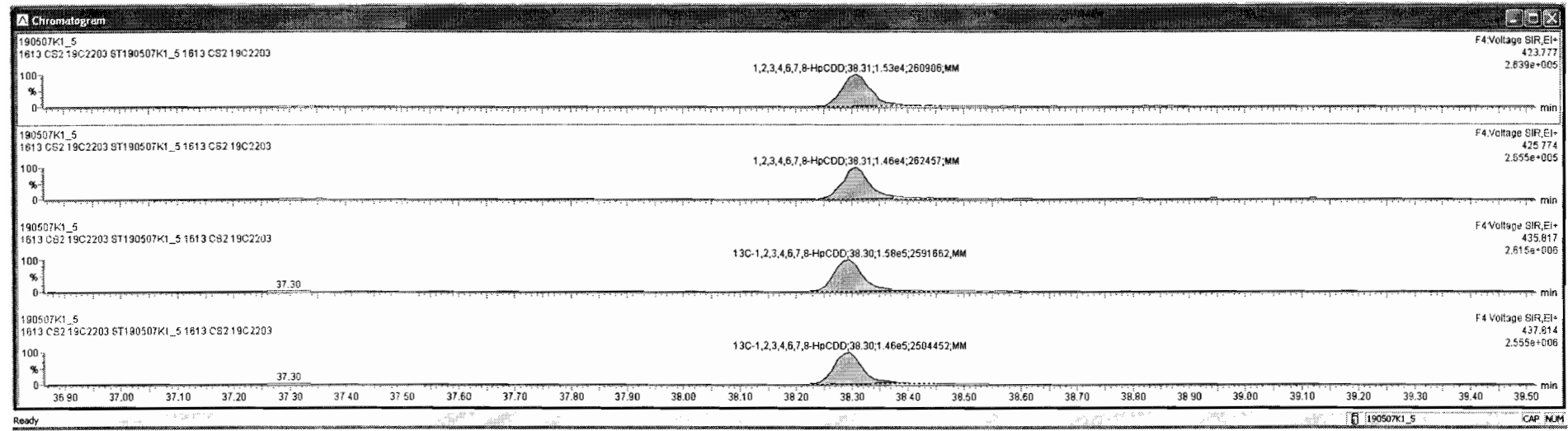


TargetLynx - 190507K1.CRV.gld

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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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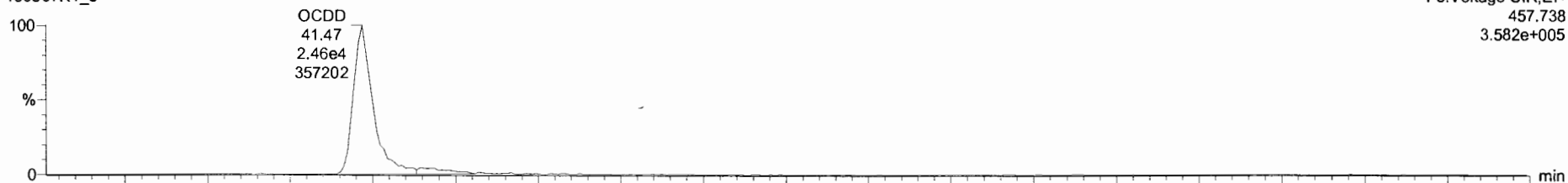
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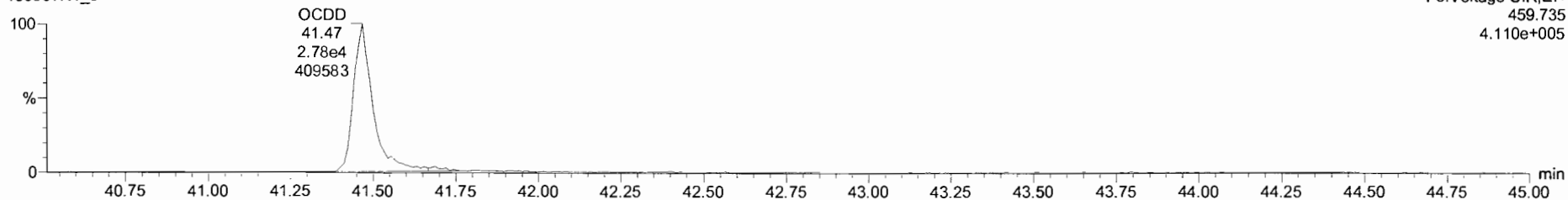
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**OCDD**

190507K1\_5

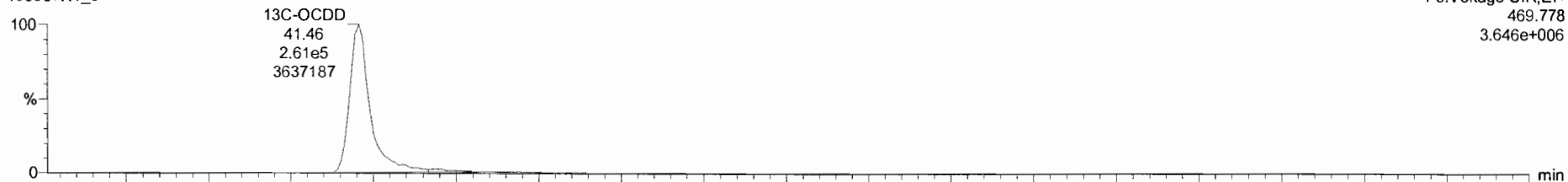


190507K1\_5

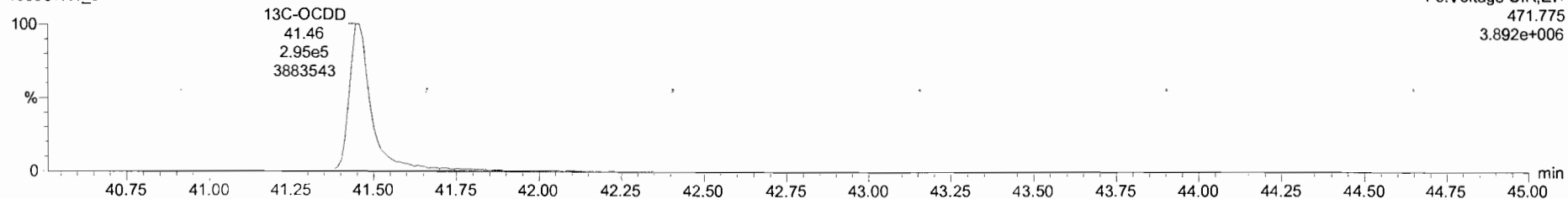


**13C-OCDD**

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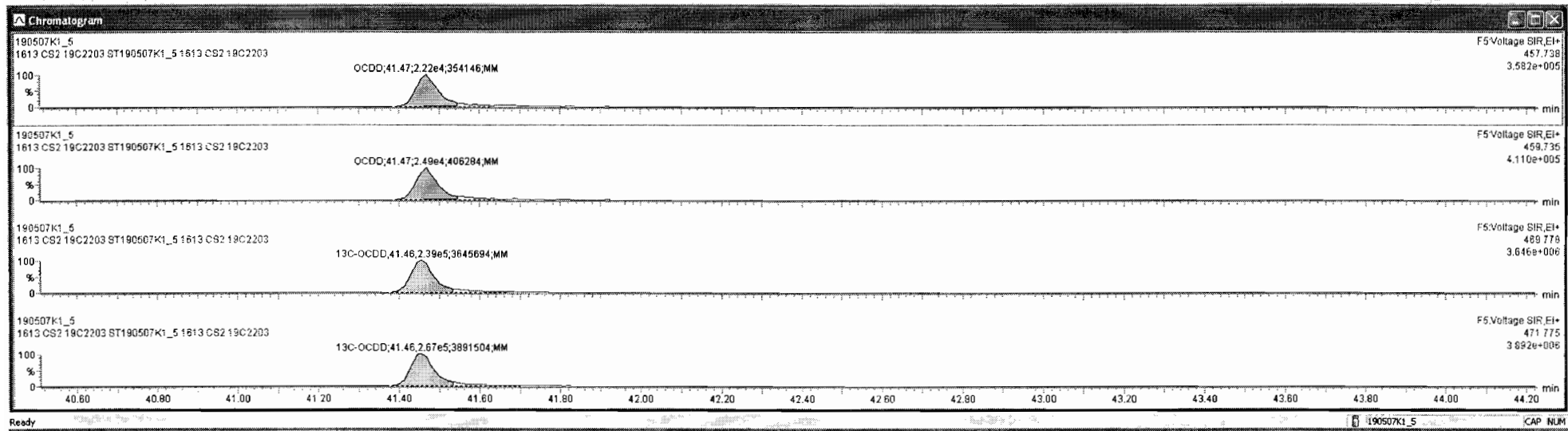


190507K1\_5



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	98.2	98.2	0.456	



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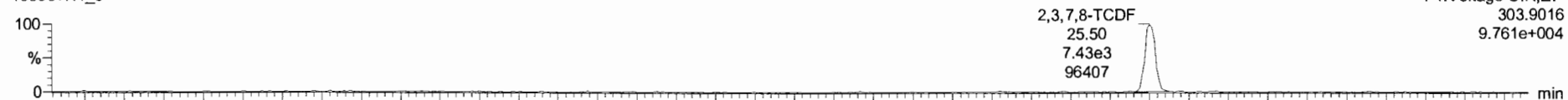
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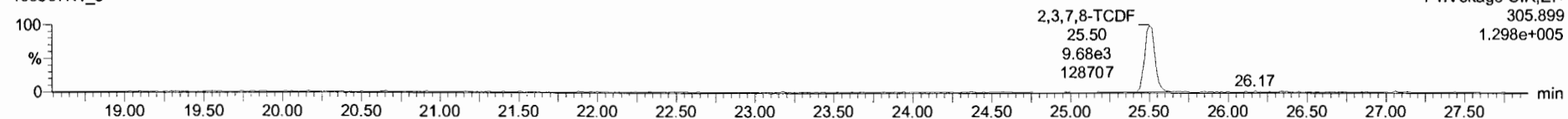
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### 2,3,7,8-TCDF

190507K1\_5

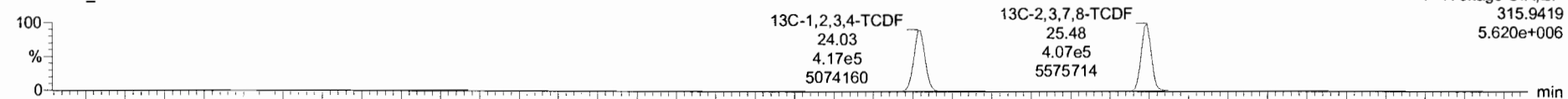


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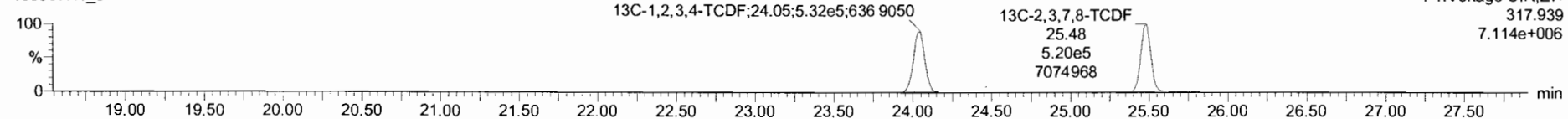


### 13C-2,3,7,8-TCDF

190507K1\_5

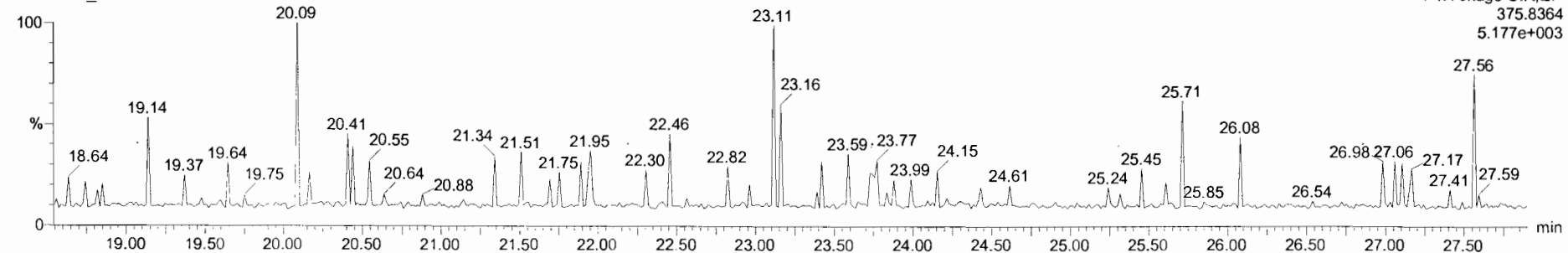


190507K1\_5



### DPE1

190507K1\_5



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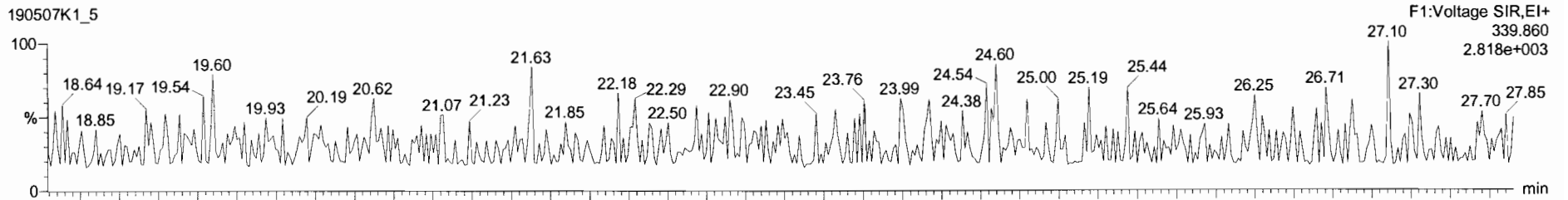
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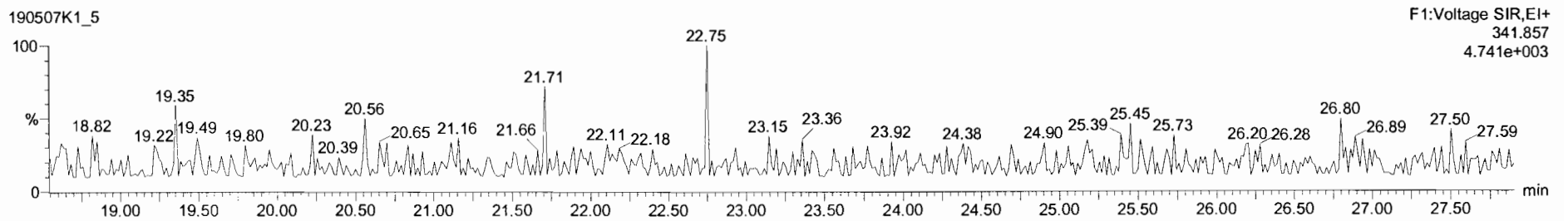
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1st Func. Penta-Furans

190507K1\_5

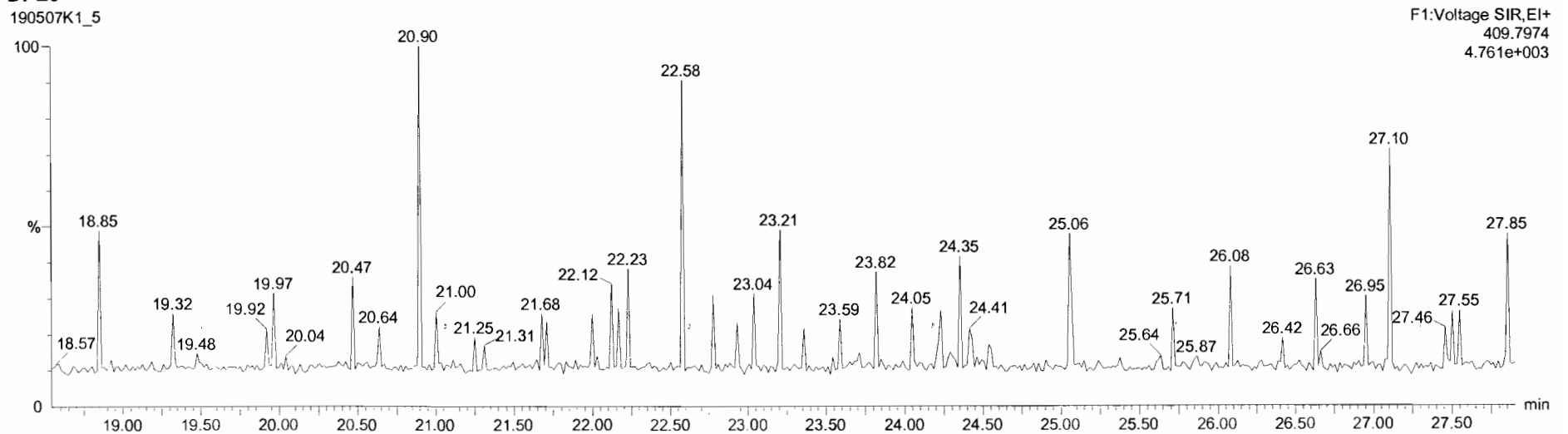


190507K1\_5



DPE6

190507K1\_5



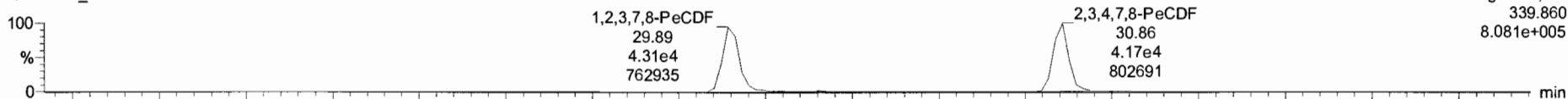
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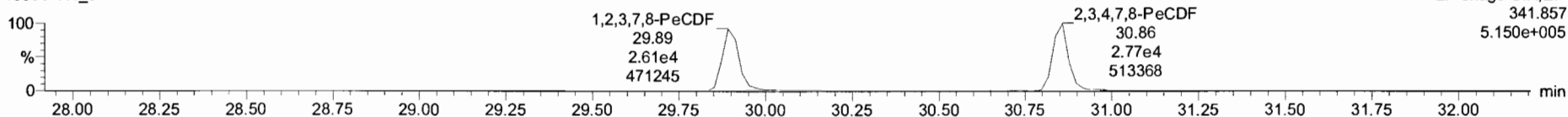
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**1,2,3,7,8-PeCDF**

190507K1\_5

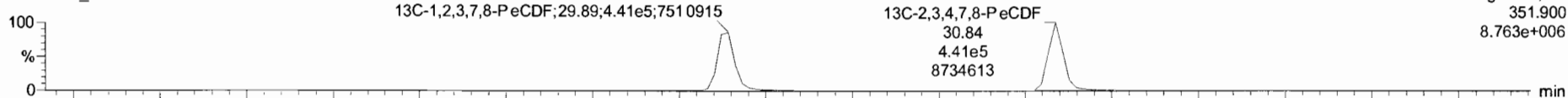


190507K1\_5

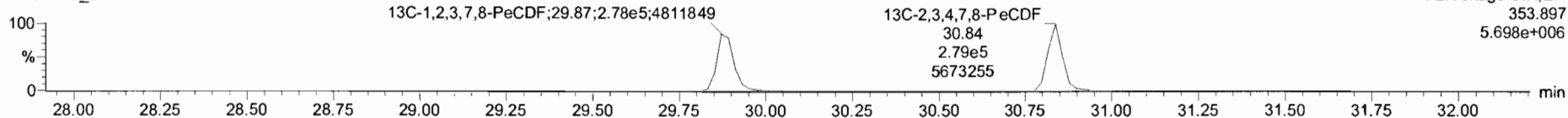


**13C-1,2,3,7,8-PeCDF**

190507K1\_5

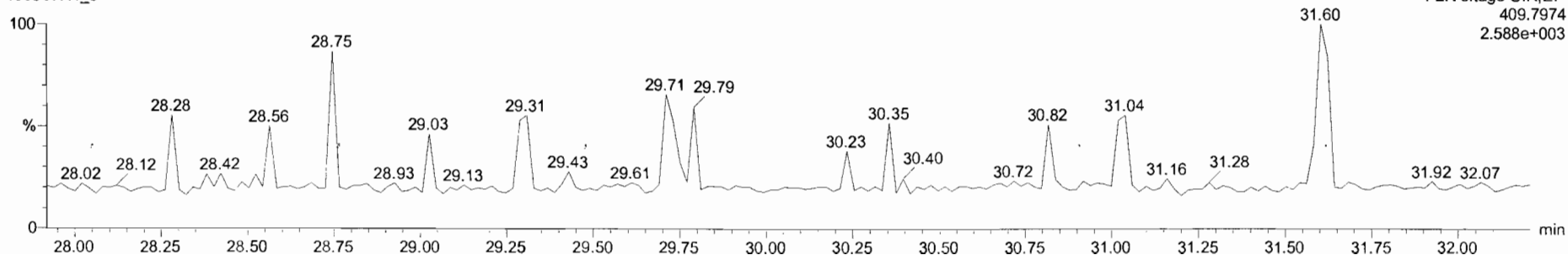


190507K1\_5



**DPE2**

190507K1\_5

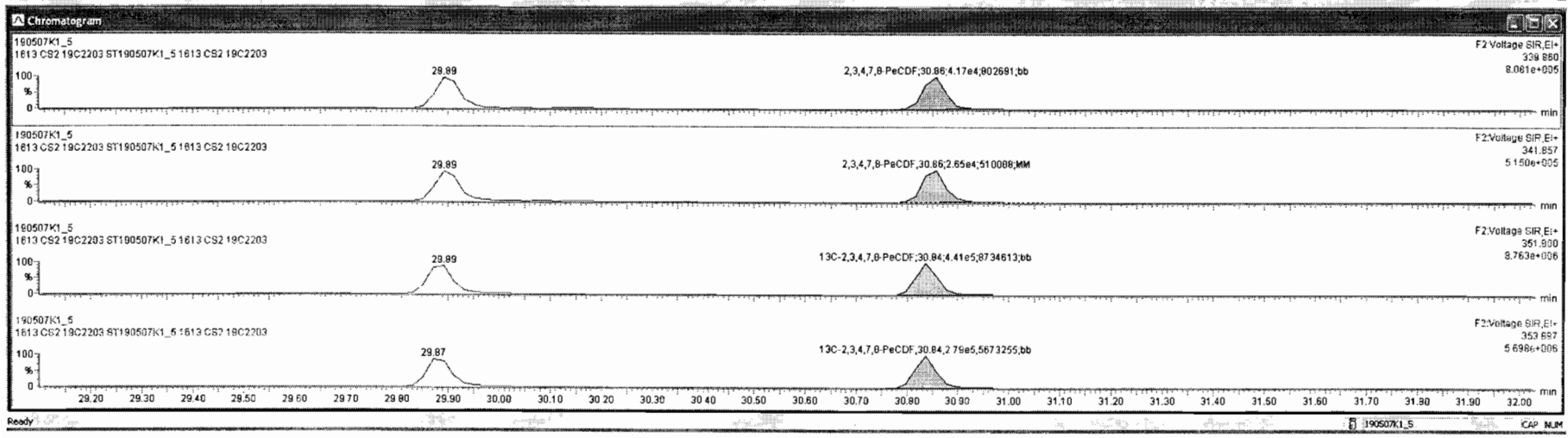


Target1.yml - 190507K1\_CRV.qld

File Edit View Display Processing Window Help

190507K1\_5 - ST:190507K1\_5 1613 CS2 19C2203 - 1613 CS2 19C2203

#	Name	Resp	RA	rvj	RRF	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	



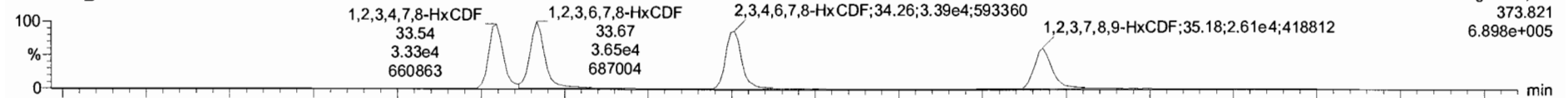
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

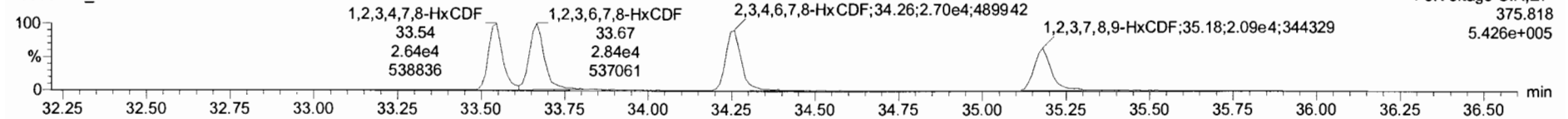
Name: 190507K1\_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1\_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203

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

190507K1\_5

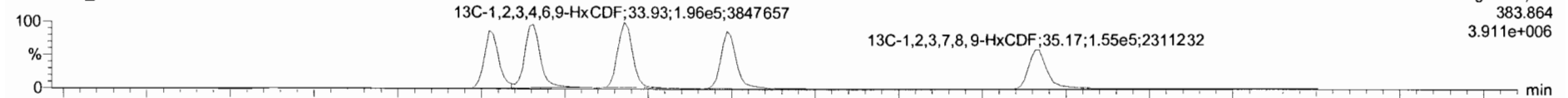


190507K1\_5

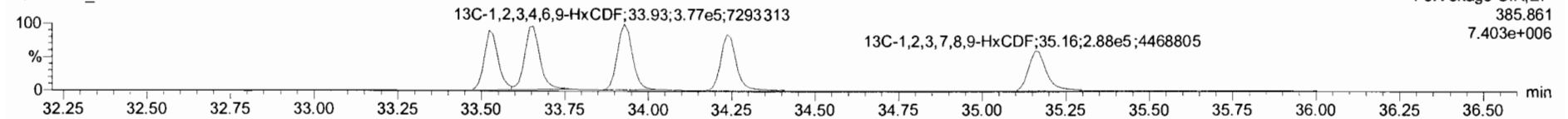


**13C-1,2,3,4,7,8-HxCDF**

190507K1\_5

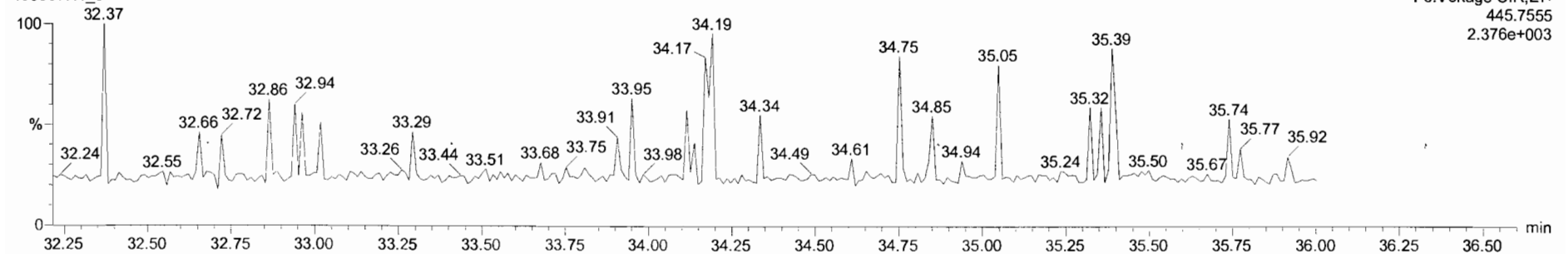


190507K1\_5



**DPE3**

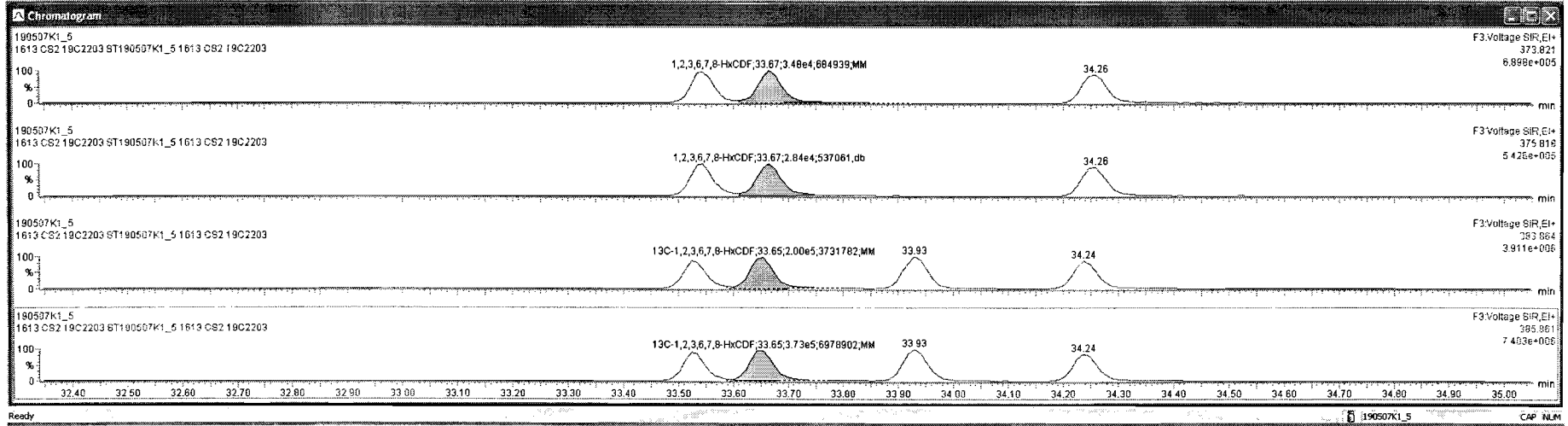
190507K1\_5



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	0.0361	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	0.0465	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	6.52e4	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	



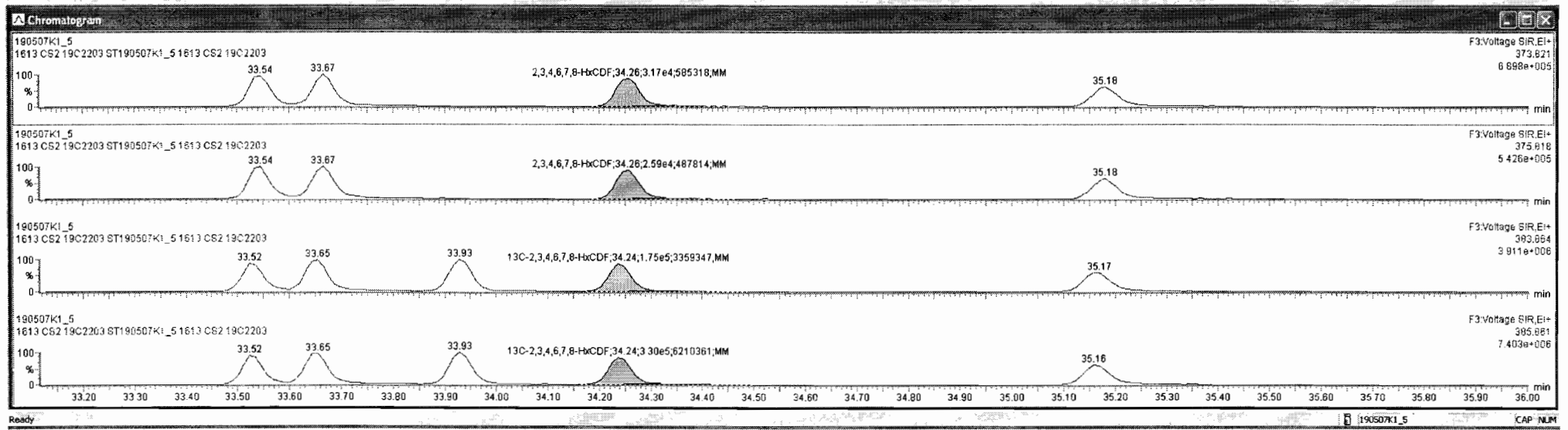


TargetLynx 190507K1\_CRV.qld

File Edit View Display Processing Window Help

190507K1\_5 - ST190507K1\_5 1613 CS2 19C2203 - 1613 CS2 19C2203

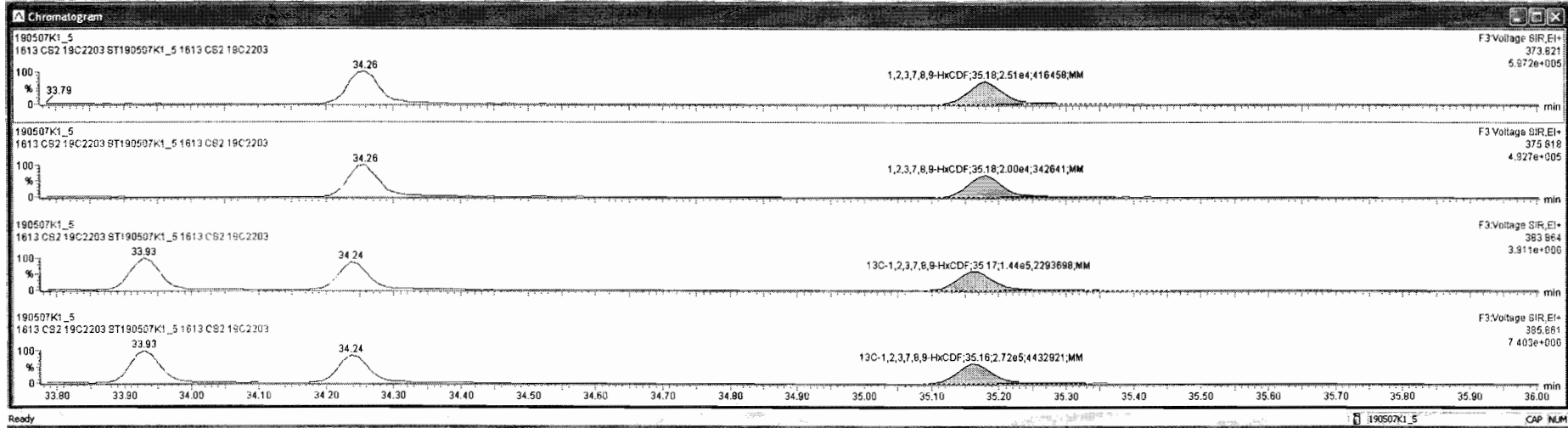
Name	Resp	RA	n/y	RfF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0451	1.85
2 1,2,3,7,8-PeCDD	4.19e4	0.86	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0625	9.78
3 1,2,3,4,7,8-HxCDD	3.89e4	1.24	NO	1.07	1.000	34.41	1.000	9.62	98.2	0.0838	9.62
4 1,2,3,6,7,8-HxCDD	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	86.5	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	0.390	



Dataset: Untitled

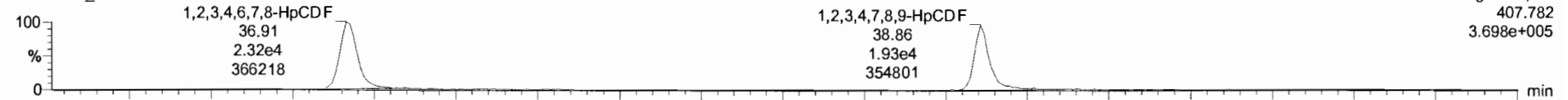
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

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

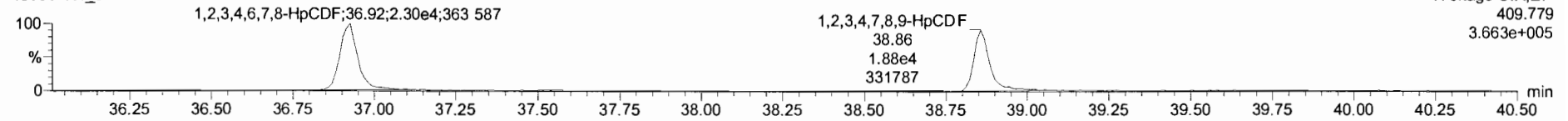
**1,2,3,4,6,7,8-HpCDF**

190507K1\_5



F4:Voltage SIR,EI+  
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3.698e+005

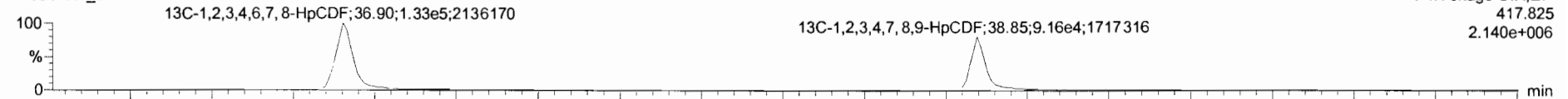
190507K1\_5



F4:Voltage SIR,EI+  
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3.663e+005

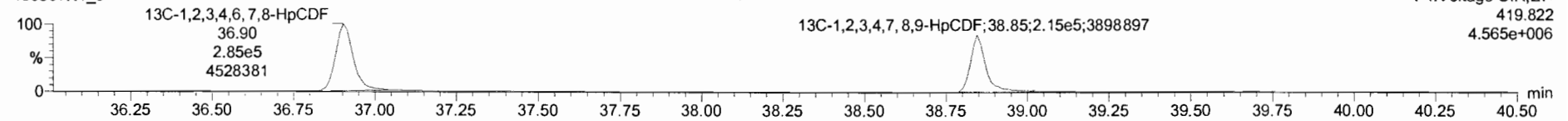
**13C-1,2,3,4,6,7,8-HpCDF**

190507K1\_5



F4:Voltage SIR,EI+  
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2.140e+006

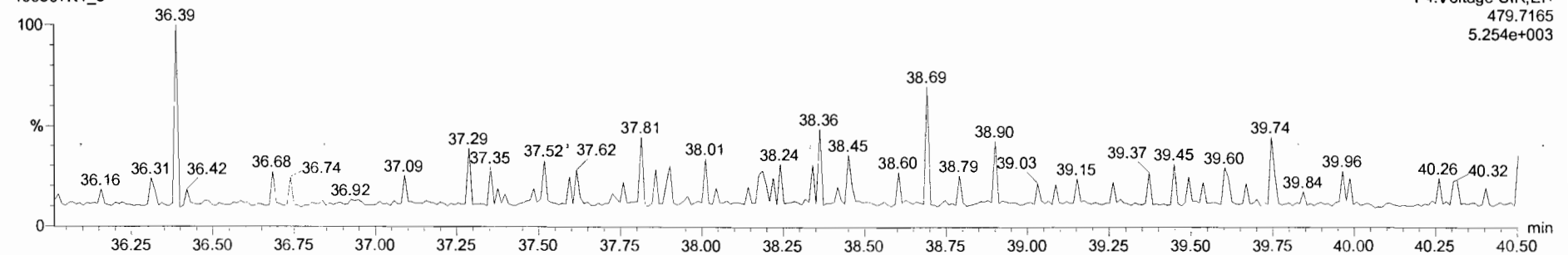
190507K1\_5



F4:Voltage SIR,EI+  
419.822  
4.565e+006

**DPE4**

190507K1\_5



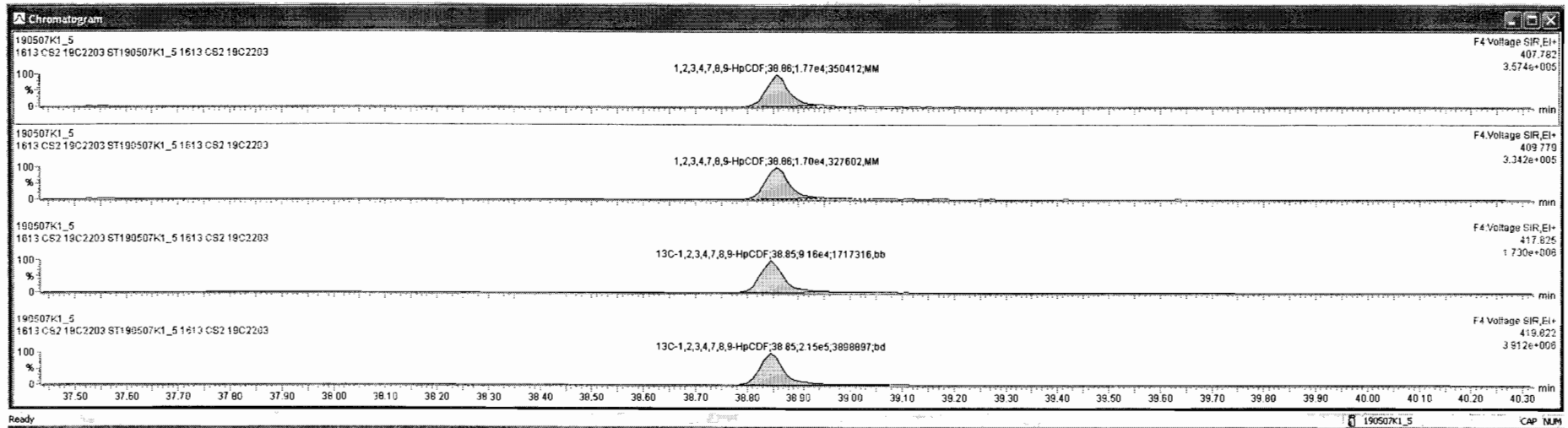
F4:Voltage SIR,EI+  
479.7165  
5.254e+003

Target: ymx - 190507K1\_CRY.qld

File Edit View Display Processing Window Help

190507K1\_5 - ST190507K1\_5 1613 CS2 19C2203 - 1613 CS2 19C2203

None	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	9.56	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	9.67	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	

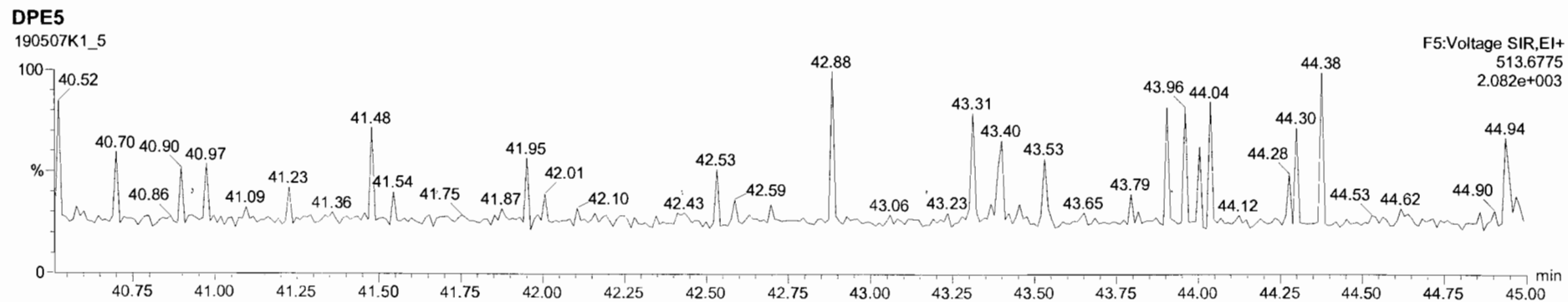
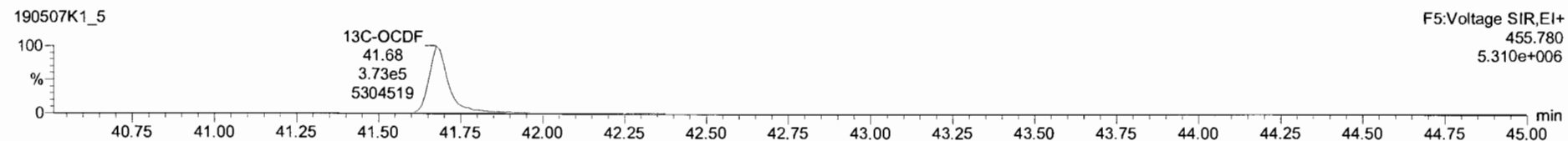
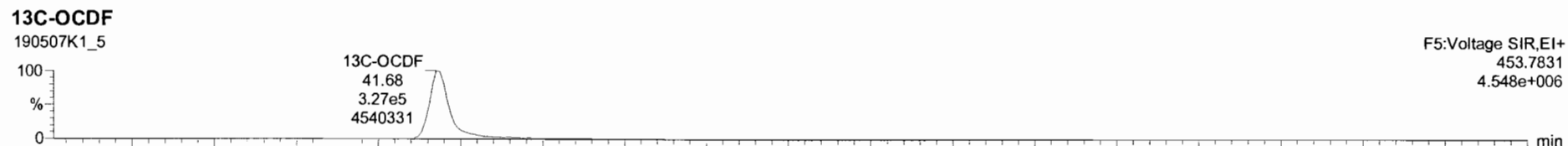
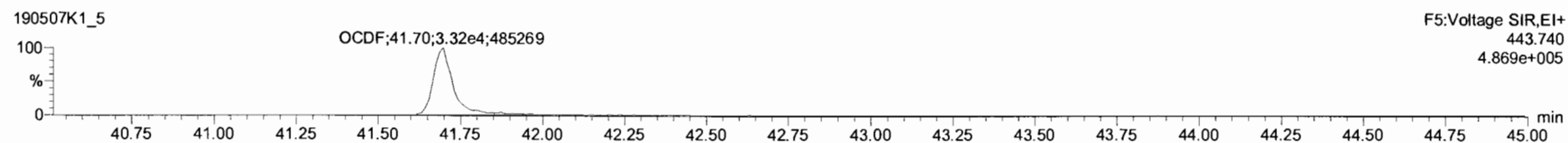
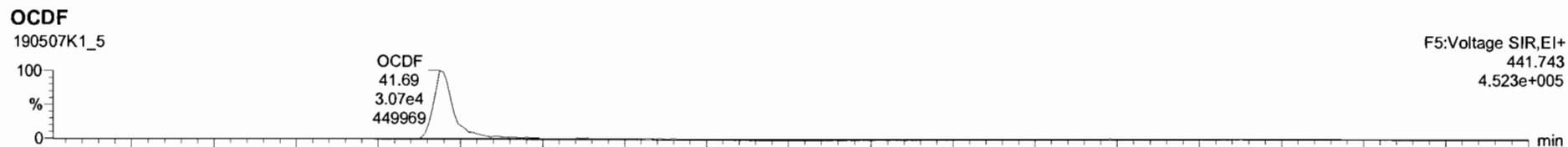


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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

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

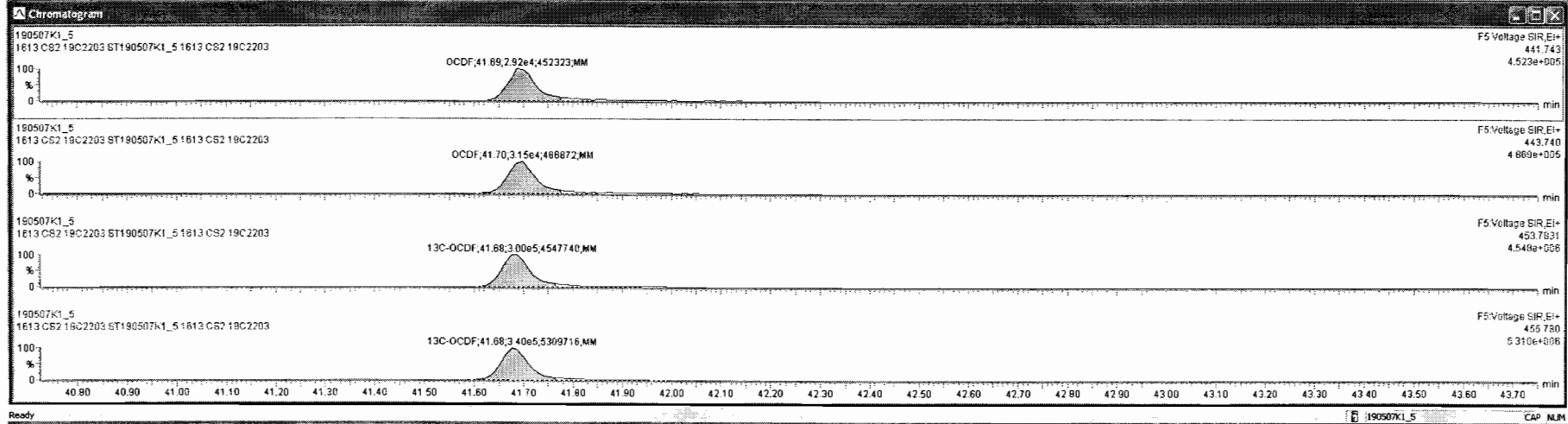


Target: ynx - 190507K1\_CRY.qld

File Edit View Display Processing Window Help

190507K1\_5 - ST190507K1\_5 1613 CS2 19C2203 - 1613 CS2 19C2203

#	Name	Resp	RA	Y/N	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	

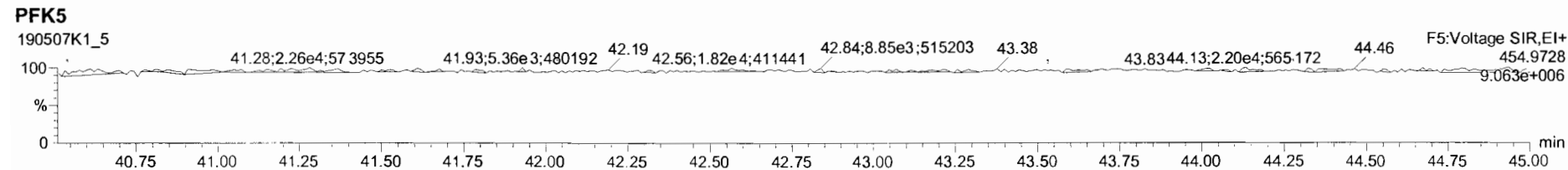
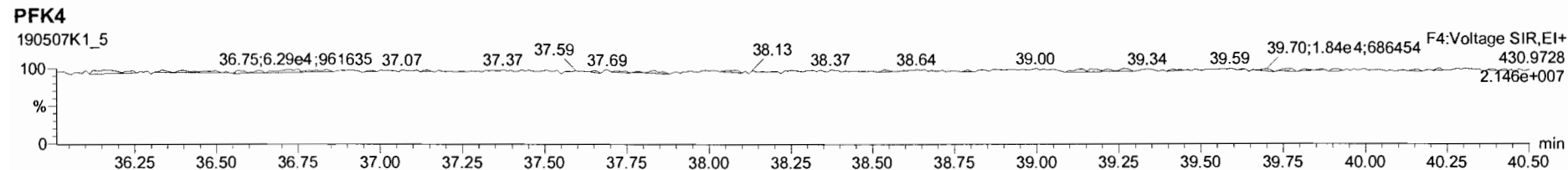
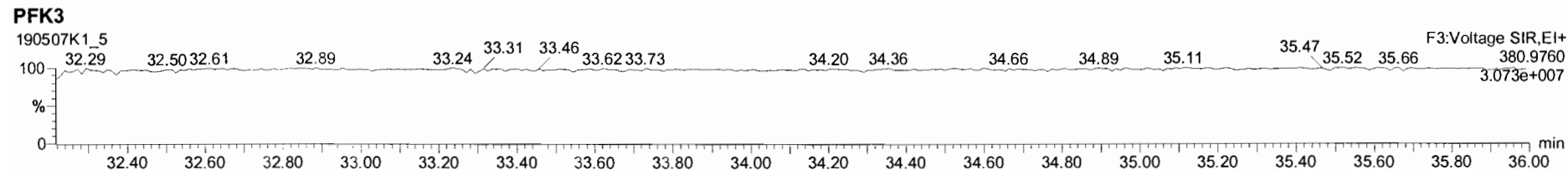
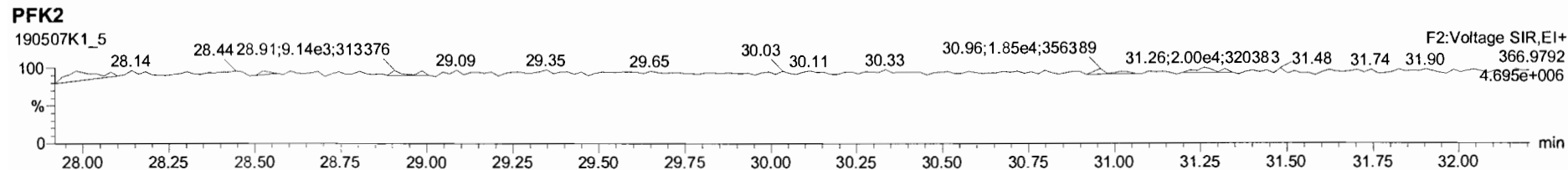
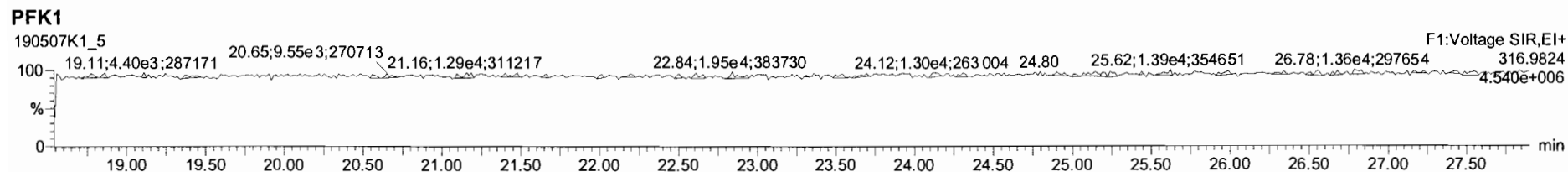


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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

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



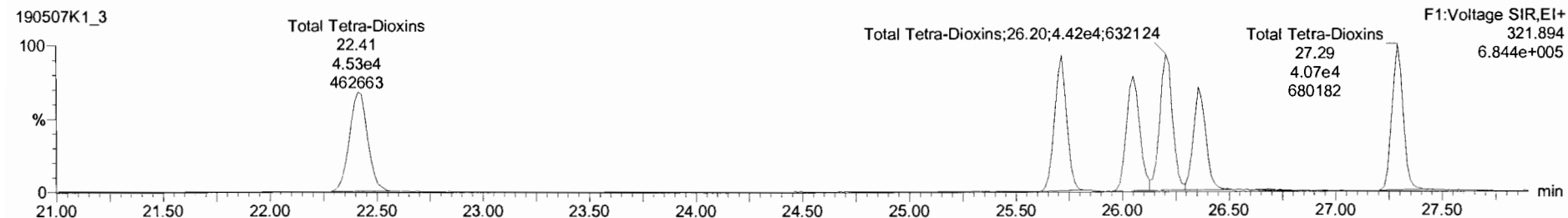
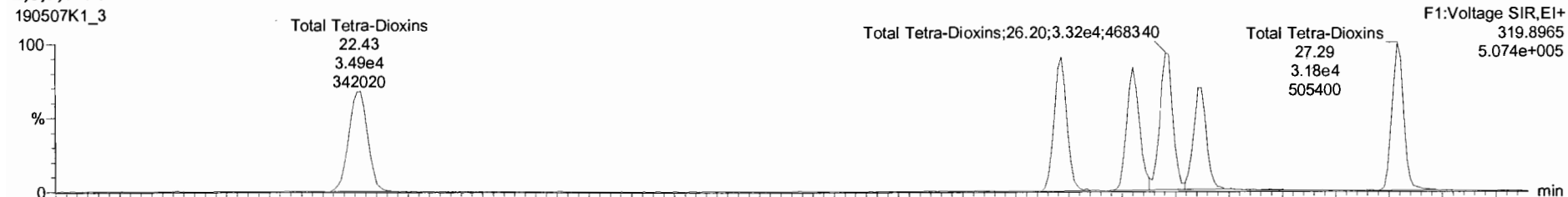
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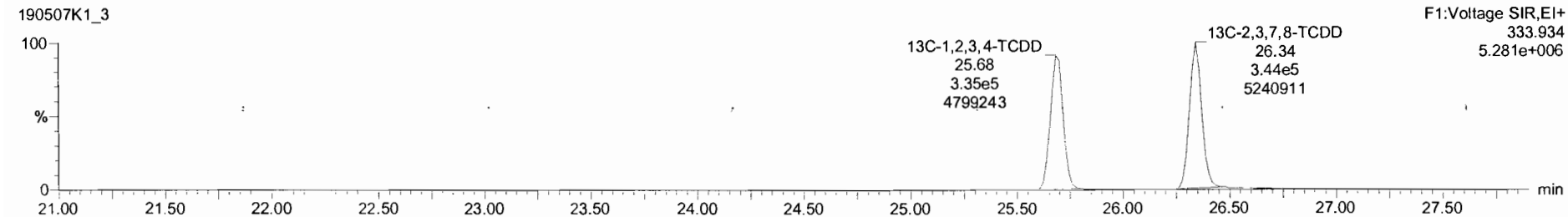
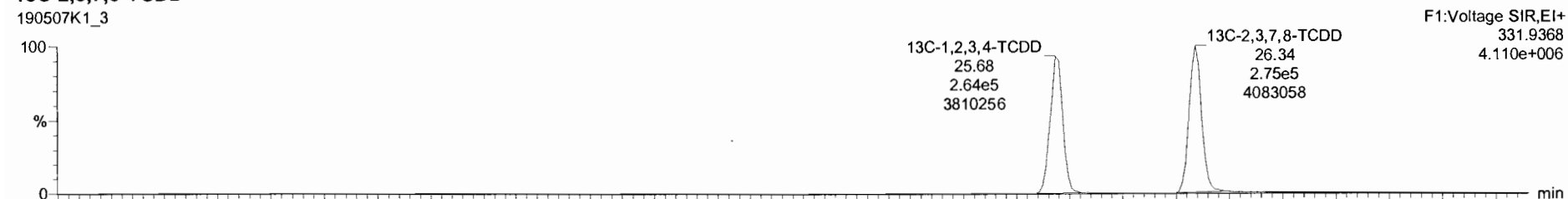
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

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-TCDD



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

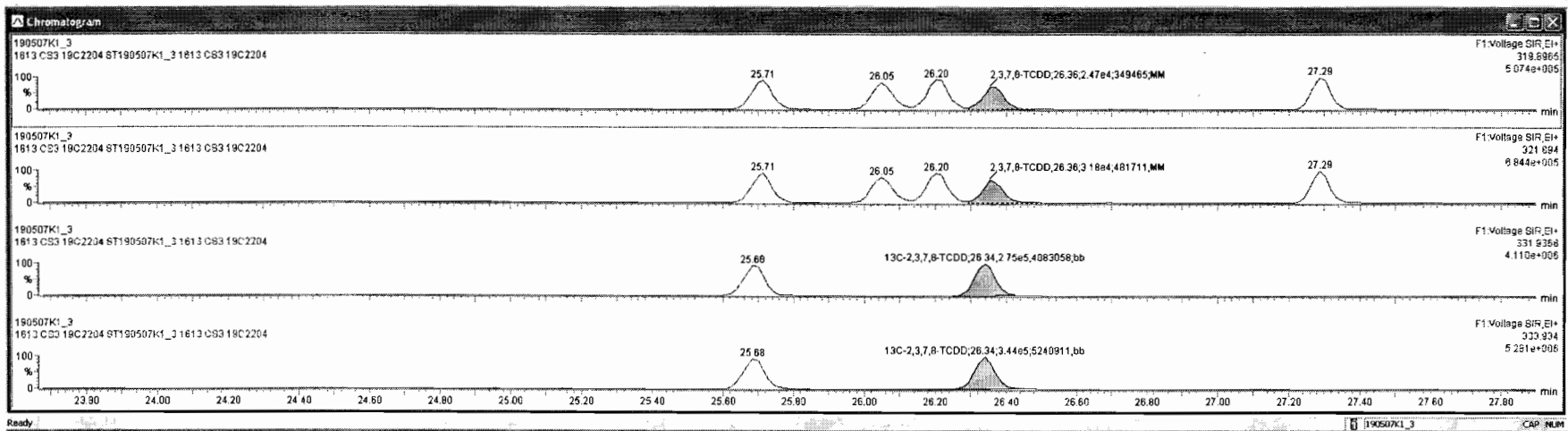




TargetLynx - 190507K1\_CRW.gld

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	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	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	0.85	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	0.68	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	



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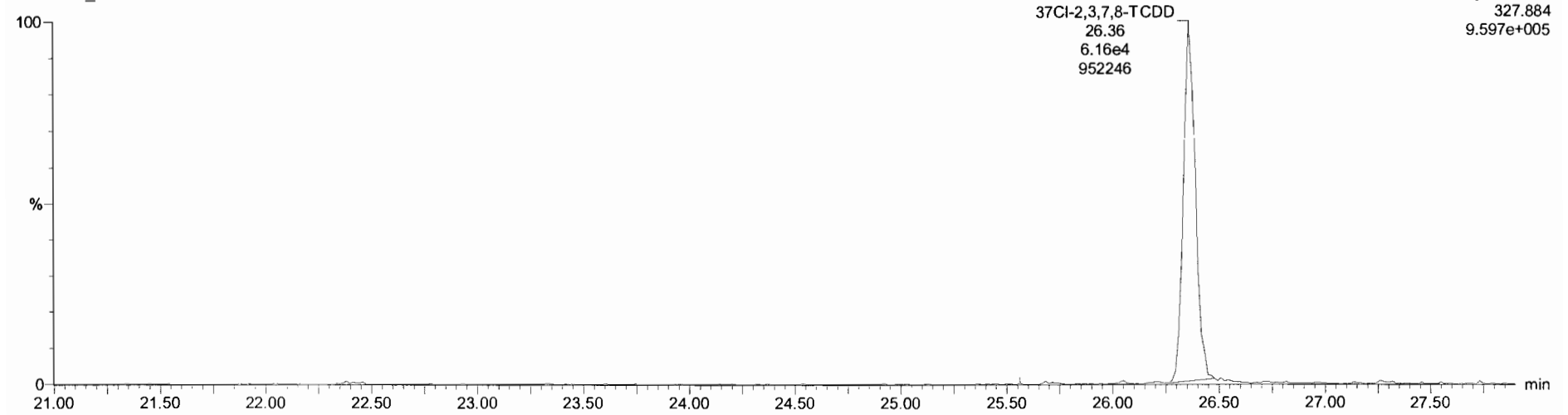
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

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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

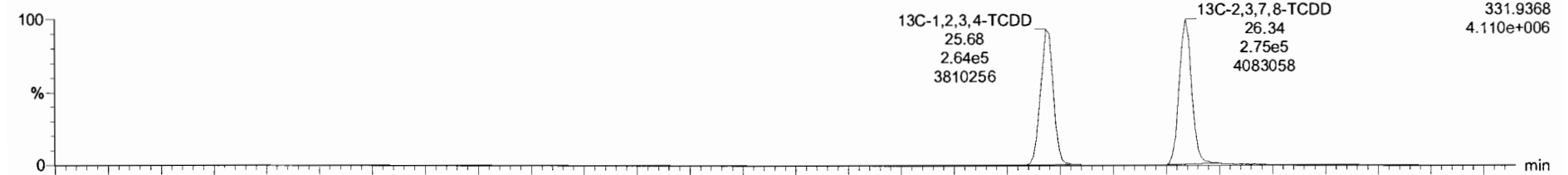
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190507K1\_3

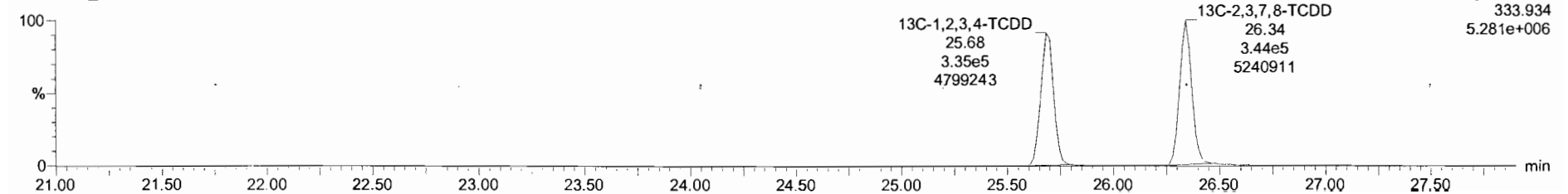


**13C-1,2,3,4-TCDD**

190507K1\_3



190507K1\_3



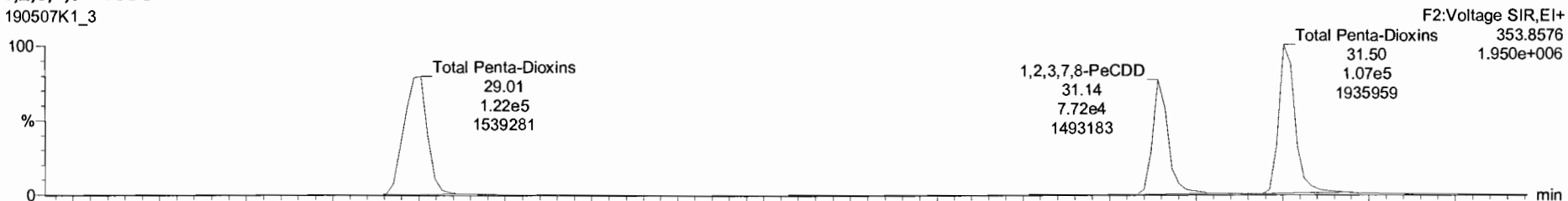
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

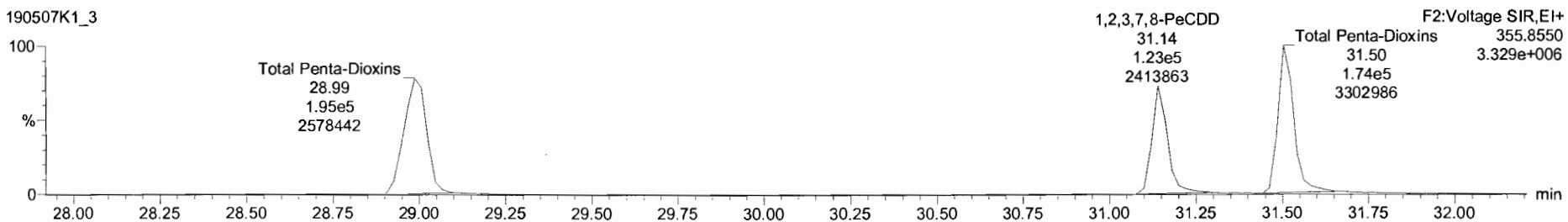
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**1,2,3,7,8-PeCDD**

190507K1\_3

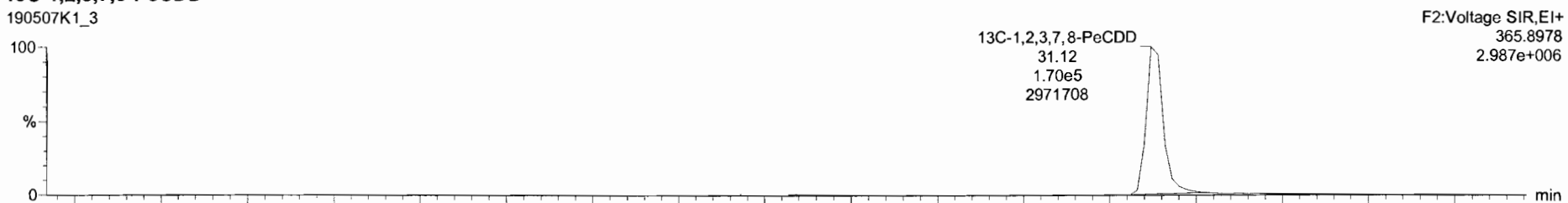


190507K1\_3

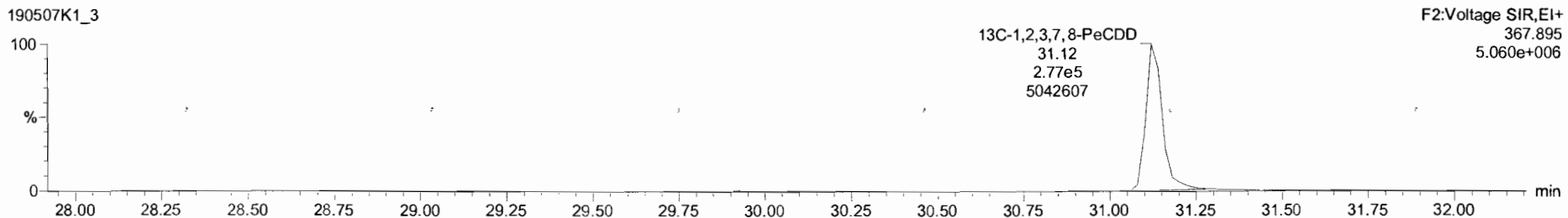


**13C-1,2,3,7,8-PeCDD**

190507K1\_3

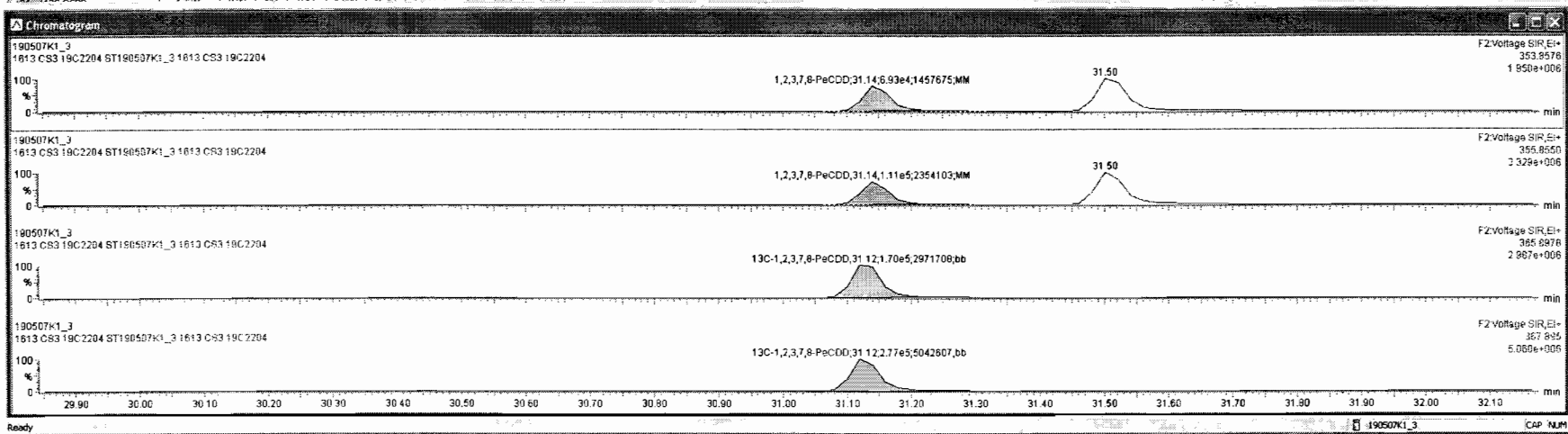


190507K1\_3



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	98.5	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-HpCDF	1.68e5	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	0.275	
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	1.129	100	100	0.557	



Dataset: Untitled

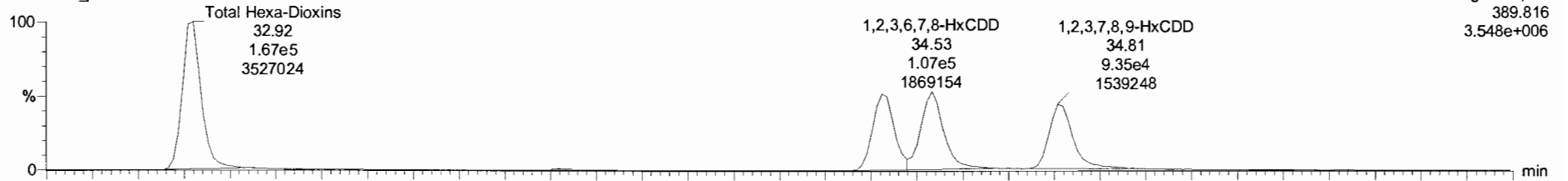
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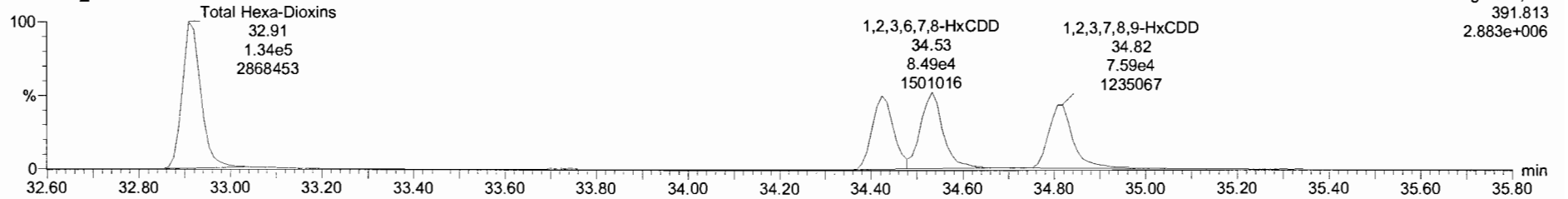
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**1,2,3,4,7,8-HxCDD**

190507K1\_3

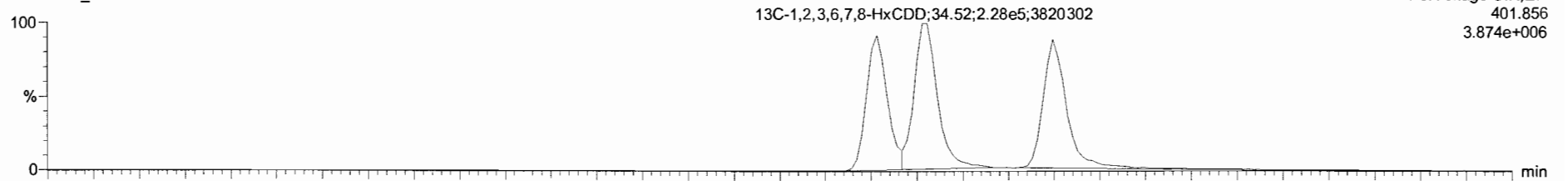


190507K1\_3

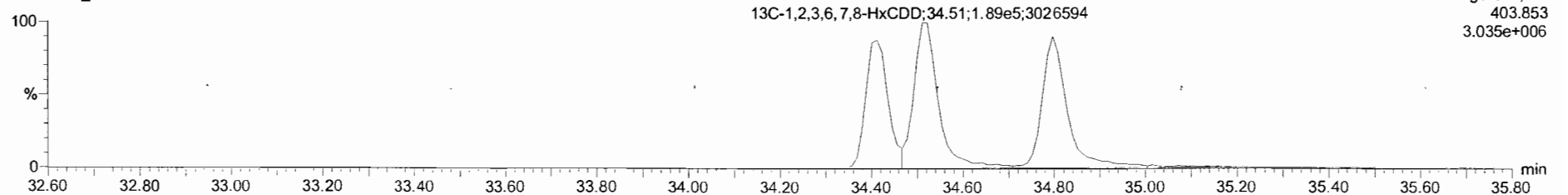


**13C-1,2,3,4,7,8-HxCDD**

190507K1\_3



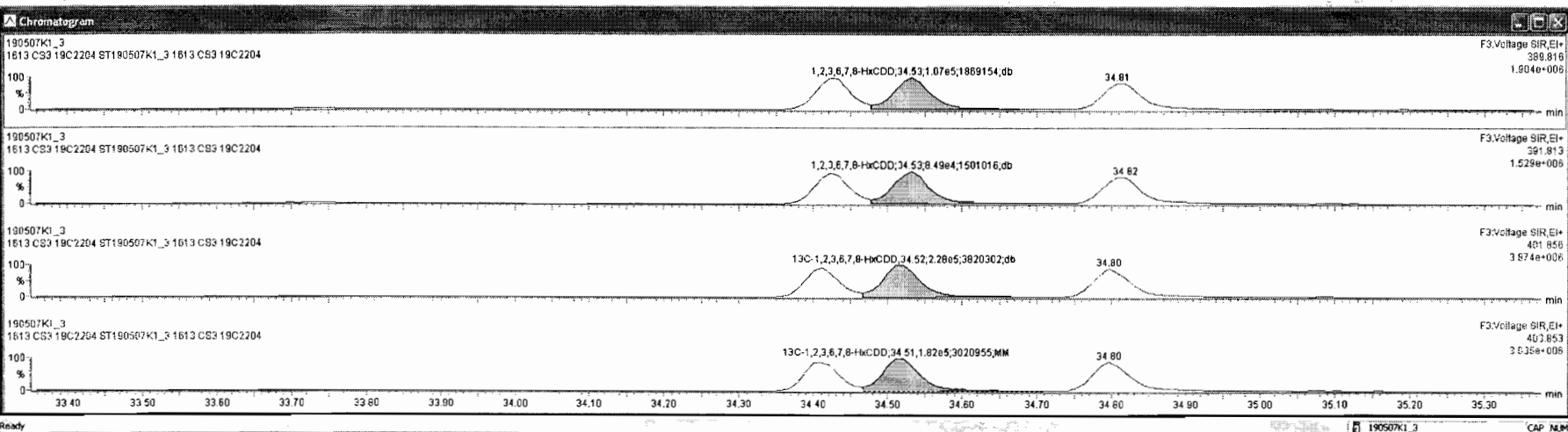
190507K1\_3



Target: ymx - 190507K1\_CRV.qld

190507K1\_3 - ST190507K1\_3 1613 CS3 19C2204 - 1613 CS3 19C2204

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	

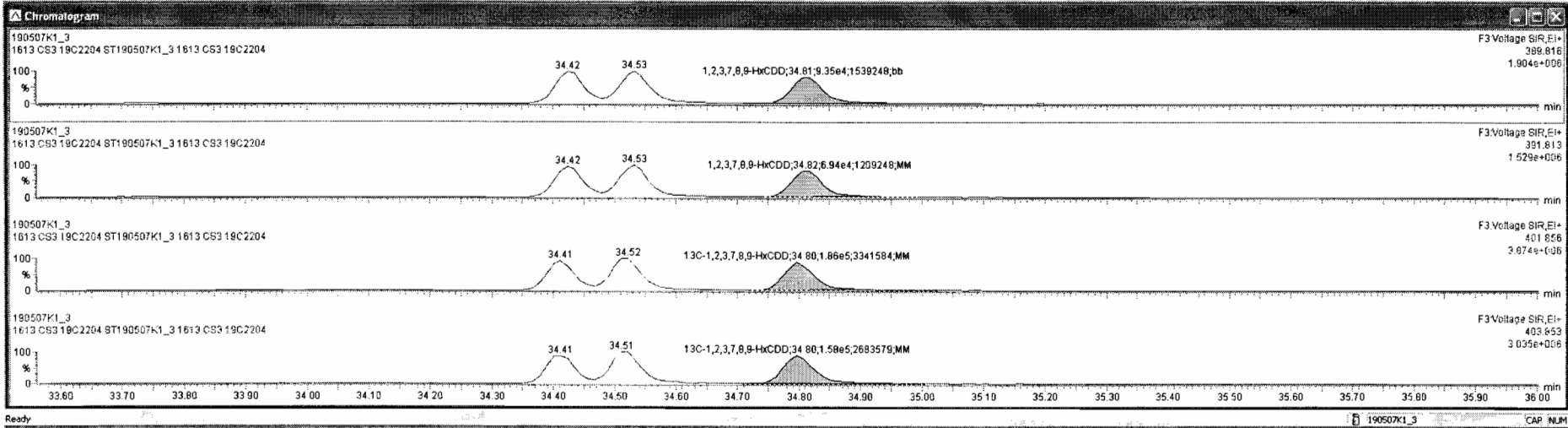


Target: ymx\_190507K1\_CRV.qld

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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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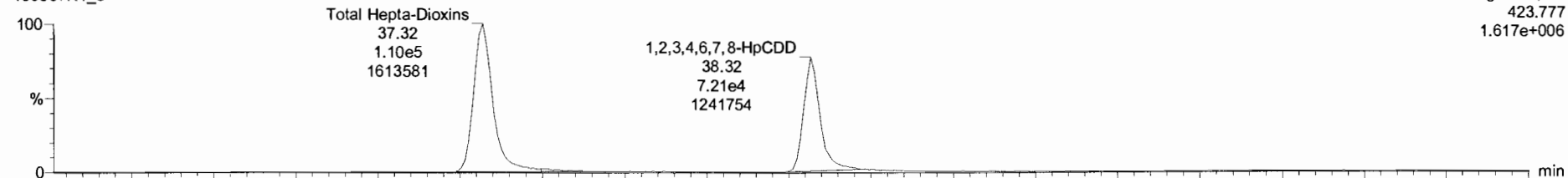
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

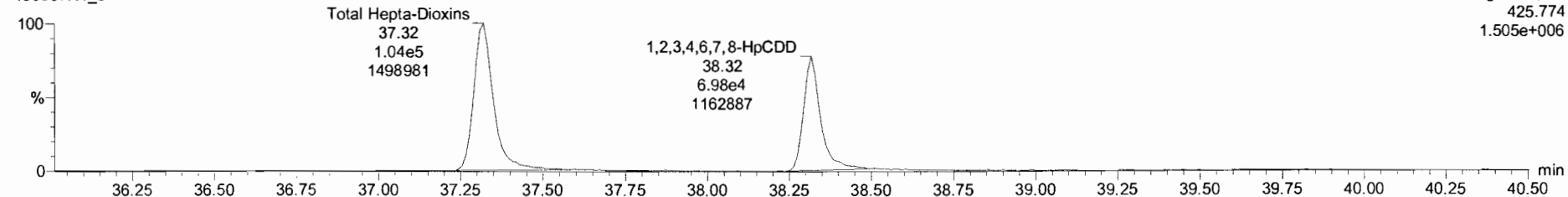
Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

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

190507K1\_3

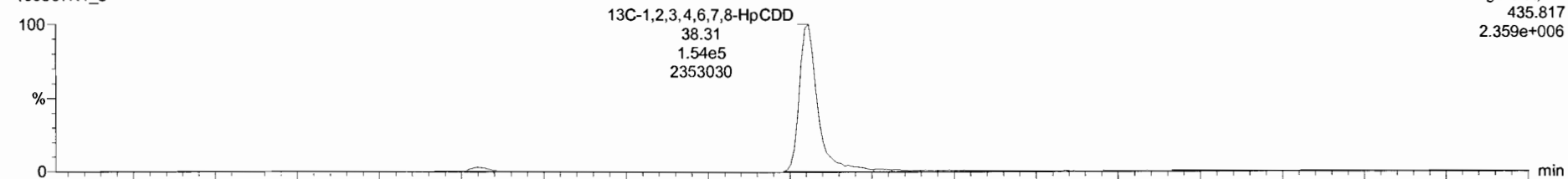


190507K1\_3

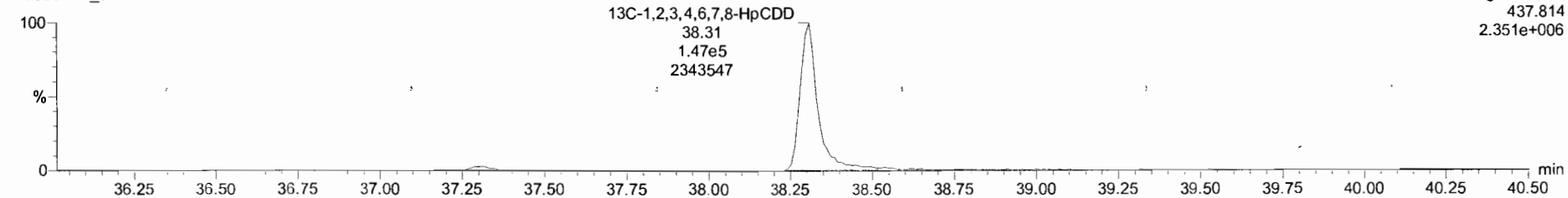


**13C-1,2,3,4,6,7,8-HpCDD**

190507K1\_3



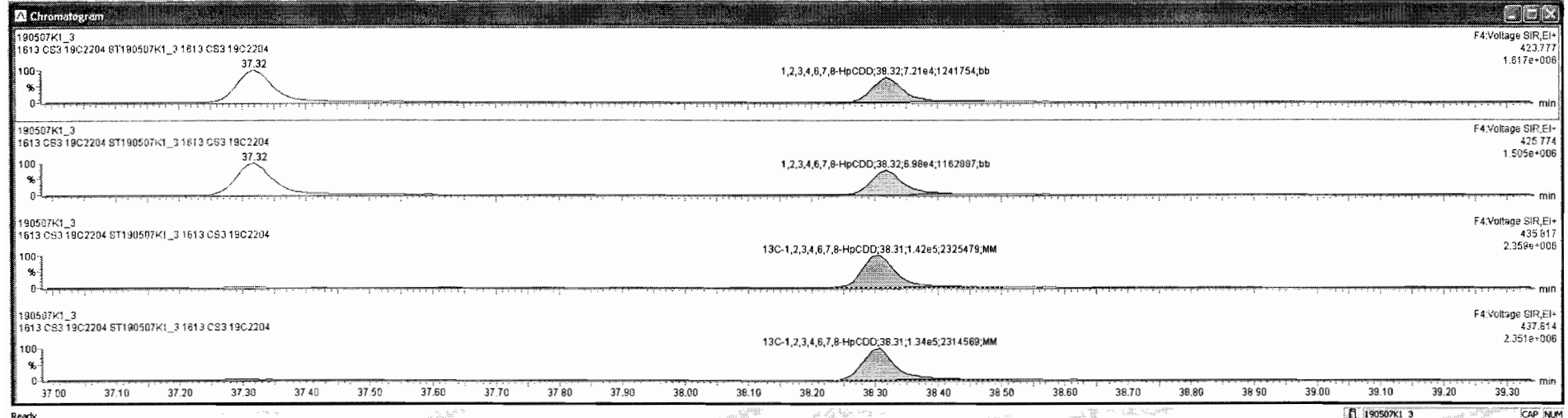
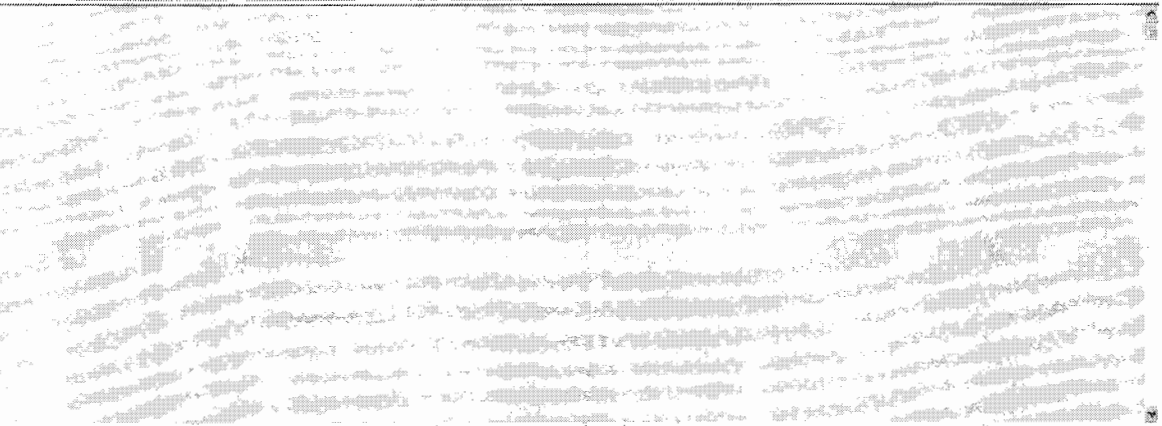
190507K1\_3





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	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	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

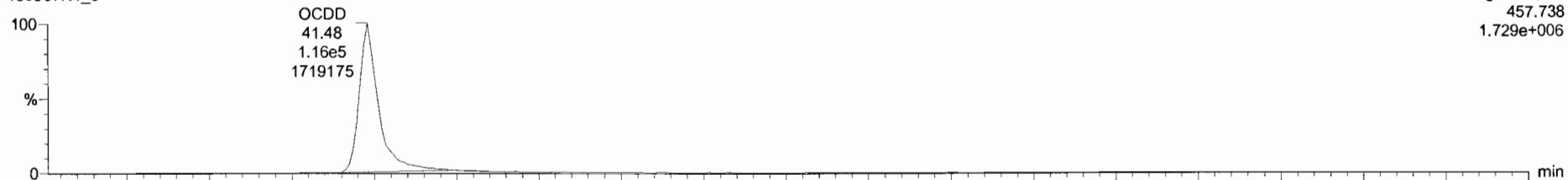
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

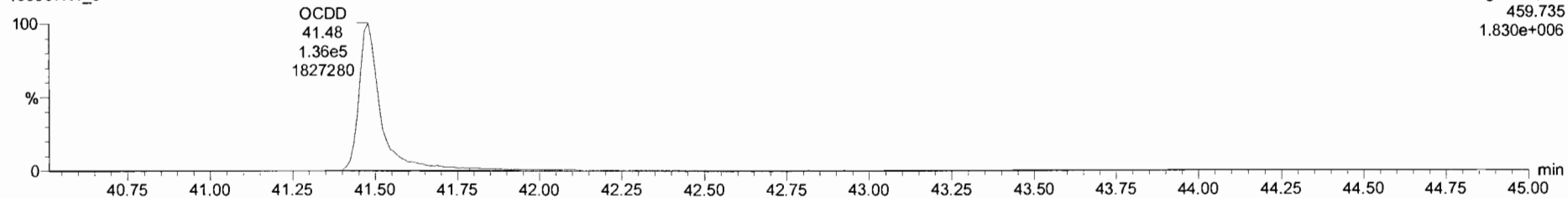
**OCDD**

190507K1\_3



F5:Voltage SIR,EI+  
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1.729e+006

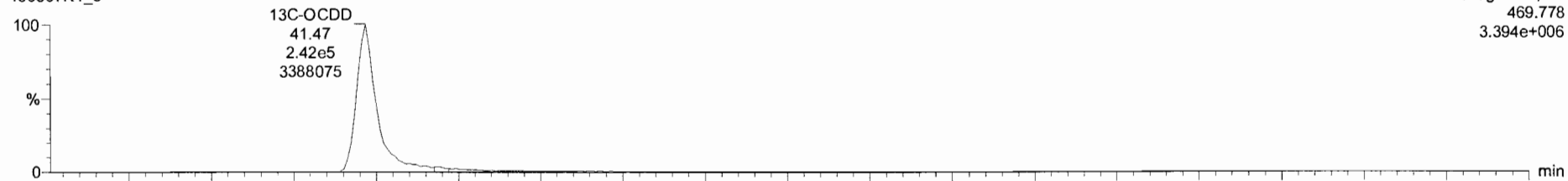
190507K1\_3



F5:Voltage SIR,EI+  
459.735  
1.830e+006

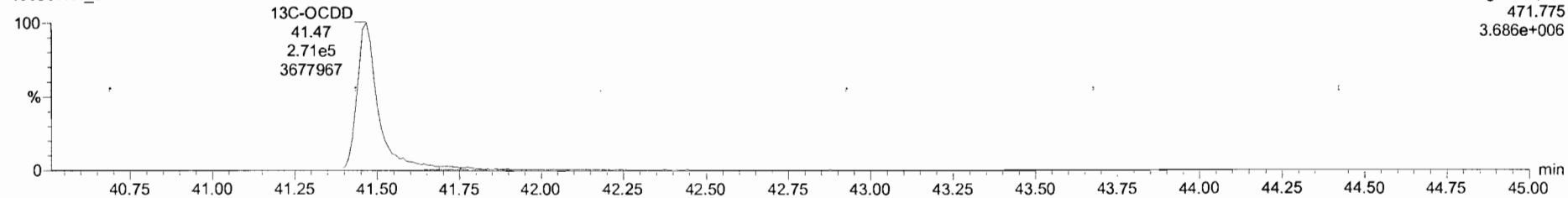
**13C-OCDD**

190507K1\_3



F5:Voltage SIR,EI+  
469.778  
3.394e+006

190507K1\_3



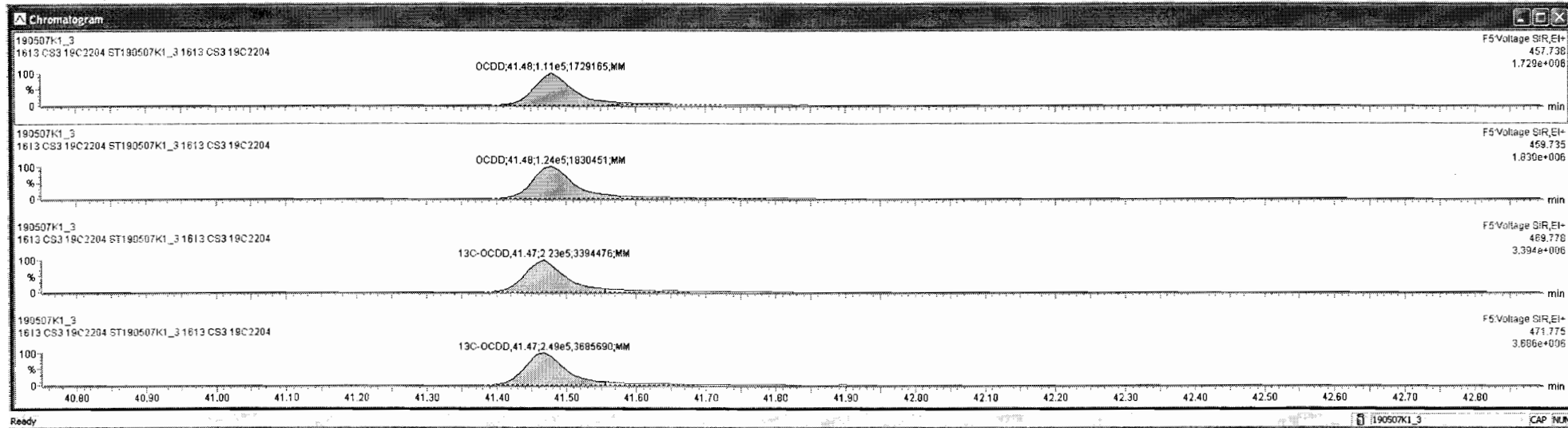
F5:Voltage SIR,EI+  
471.775  
3.686e+006

TargetLynx - 190507K1 - CRV.qld

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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	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	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 2,3,4,6,7,8-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	0.65	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	0.86	1.000	34.60	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	

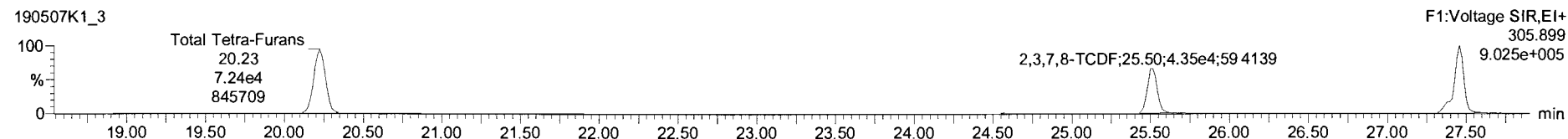


Dataset: Untitled

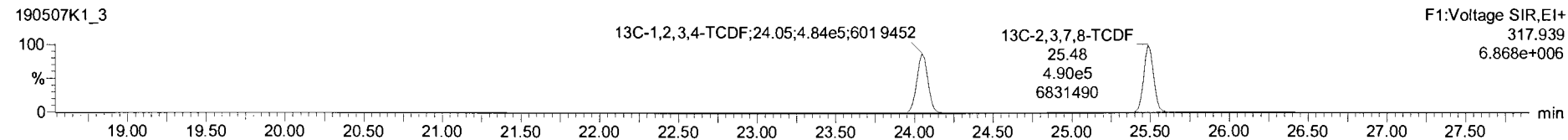
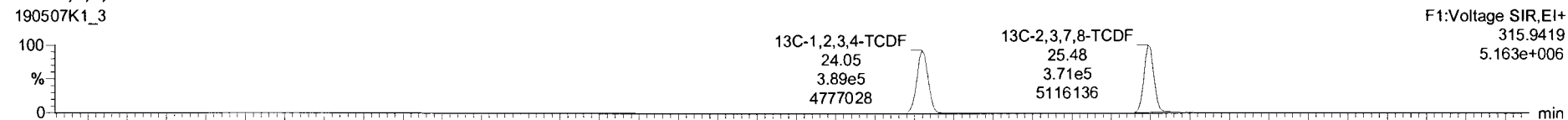
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

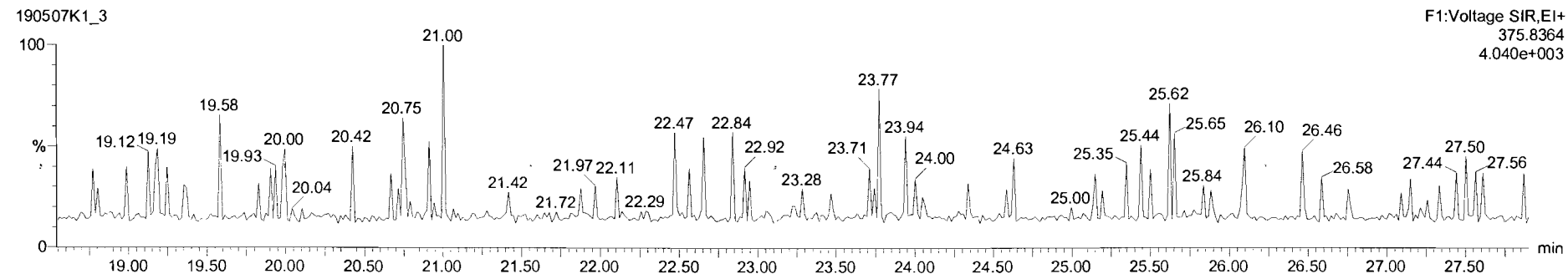
### 2,3,7,8-TCDF



### 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

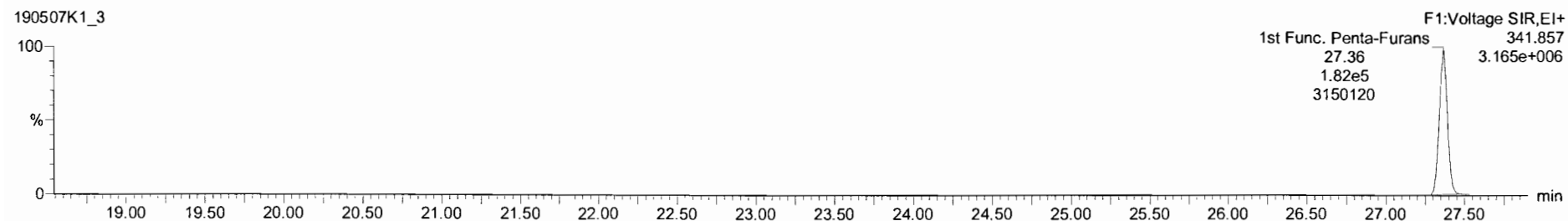
Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

1st Func. Penta-Furans

190507K1\_3

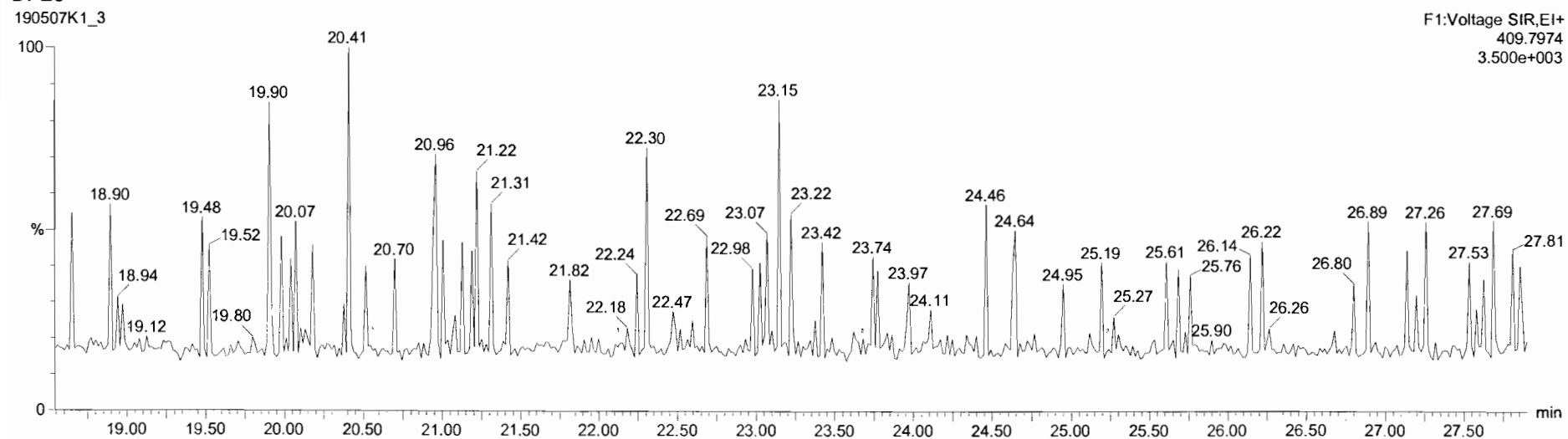


190507K1\_3



DPE6

190507K1\_3



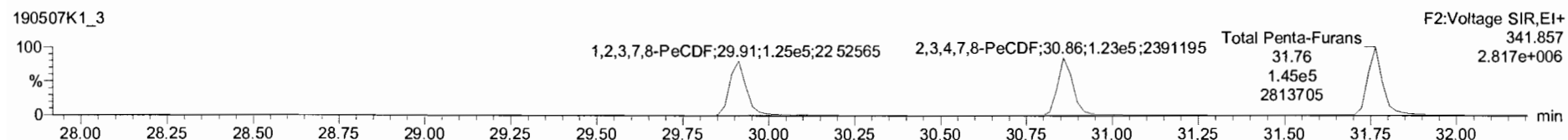
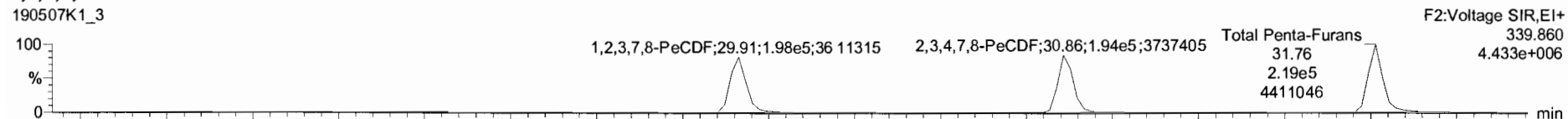
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

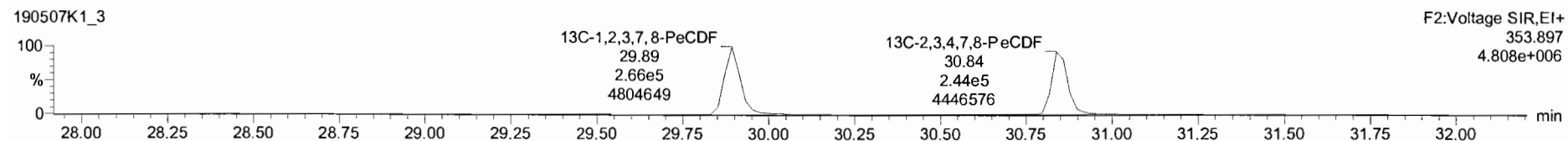
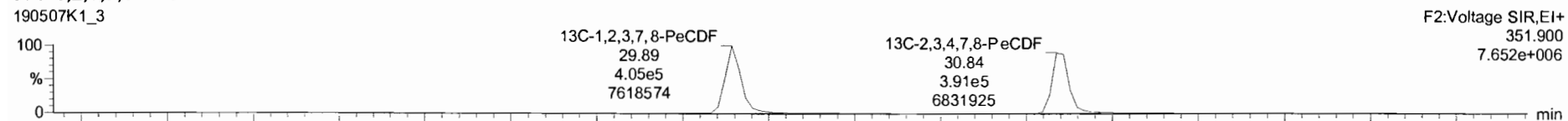
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

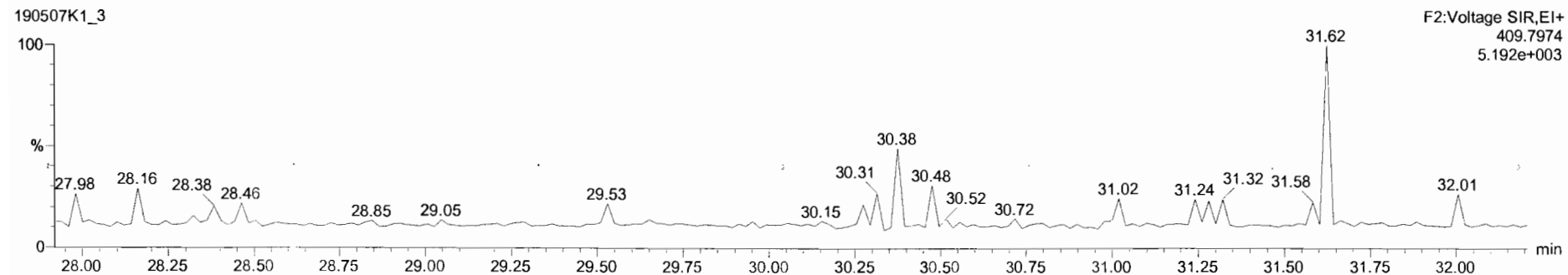
### 1,2,3,7,8-PeCDF



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



### DPE2



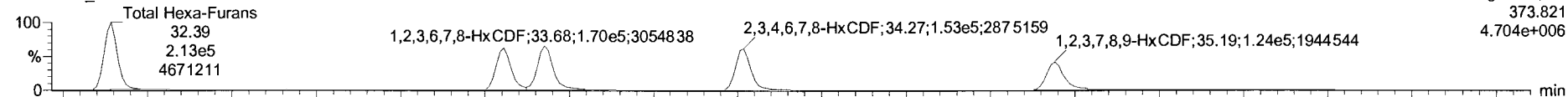
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

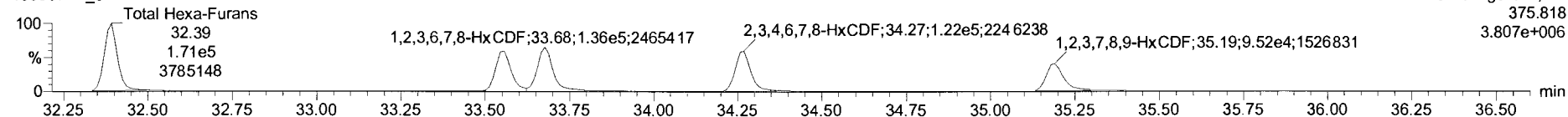
Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

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

190507K1\_3

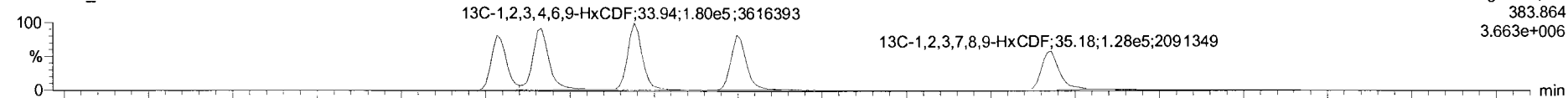


190507K1\_3

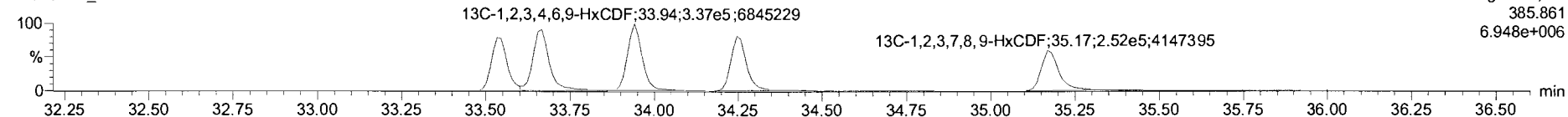


**13C-1,2,3,4,7,8-HxCDF**

190507K1\_3

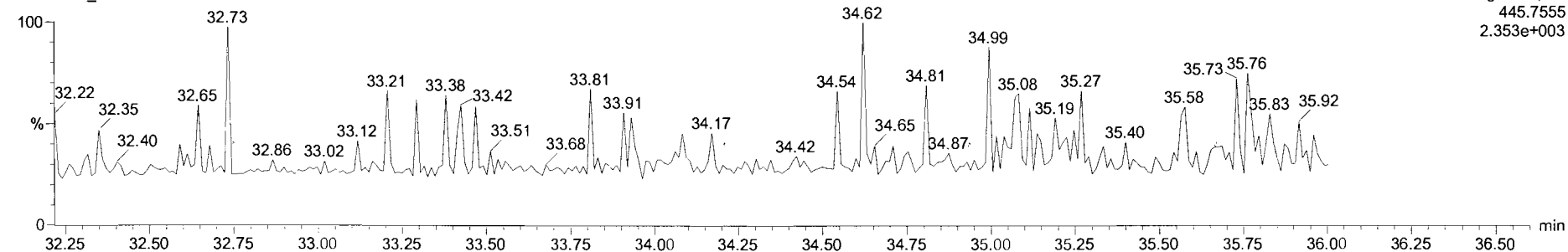


190507K1\_3



**DPE3**

190507K1\_3

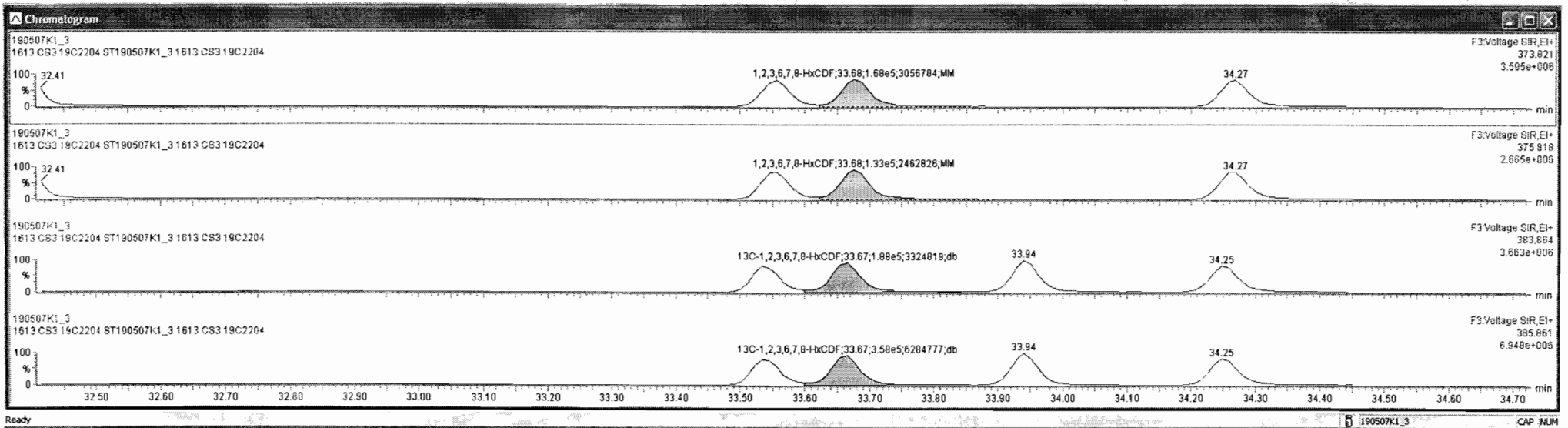


Targetlynx - 190507K1\_CRV.qld

File Edit View Display Processing Window Help

190507K1\_3 - ST 190507K1\_3 1613 CS3 19C2204 - 1613 CS3 19C2204

Name	Resp	RA	nNy	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	



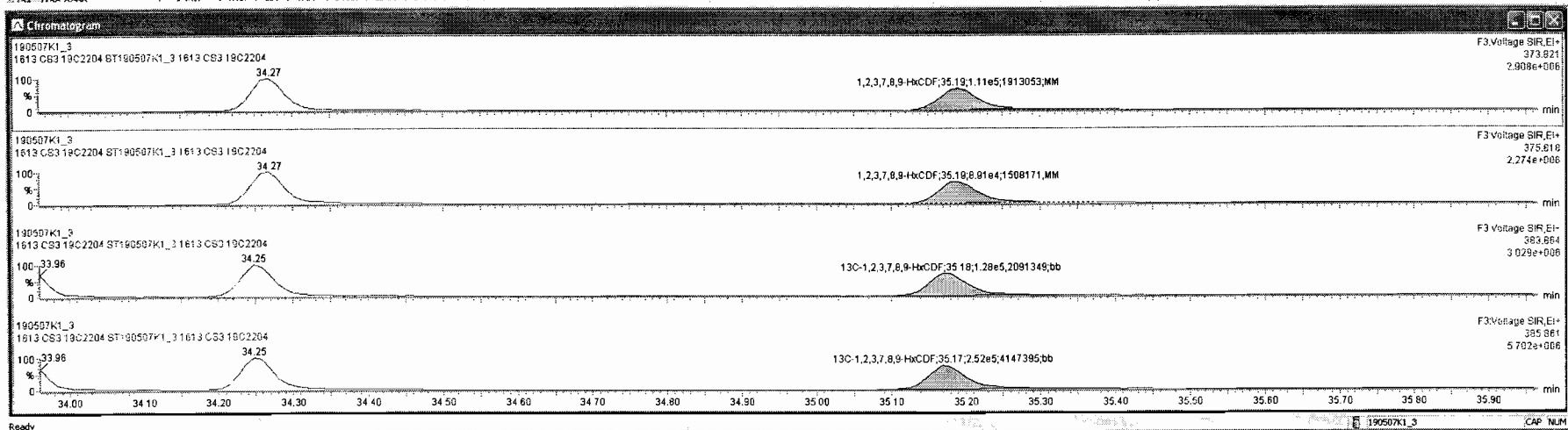


Target: ymx - 190507K1\_CRV.qld

File Edit View Display Processing Window Help

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	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	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	

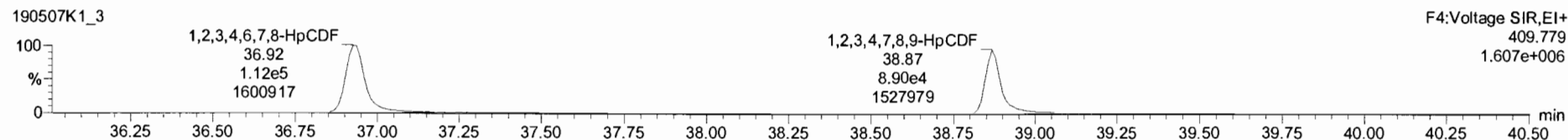
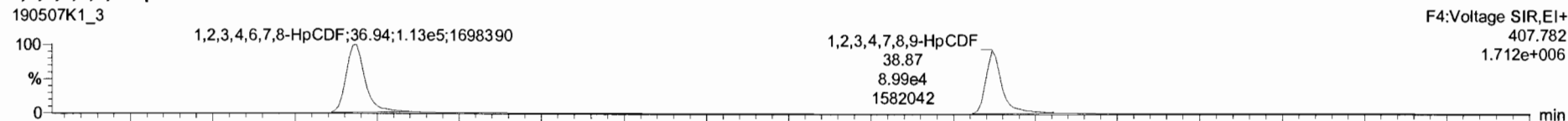


Dataset: Untitled

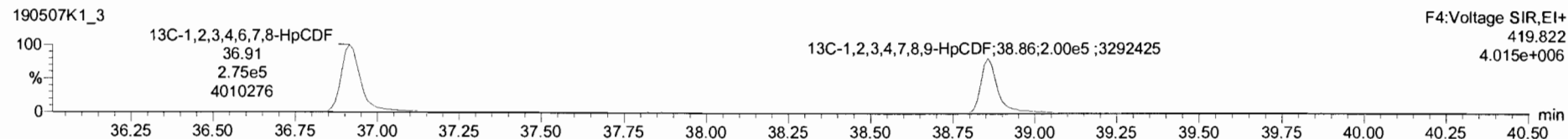
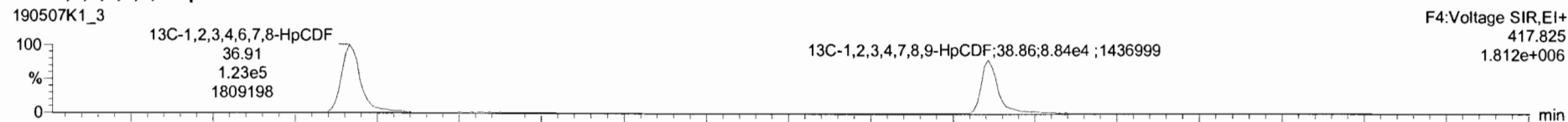
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

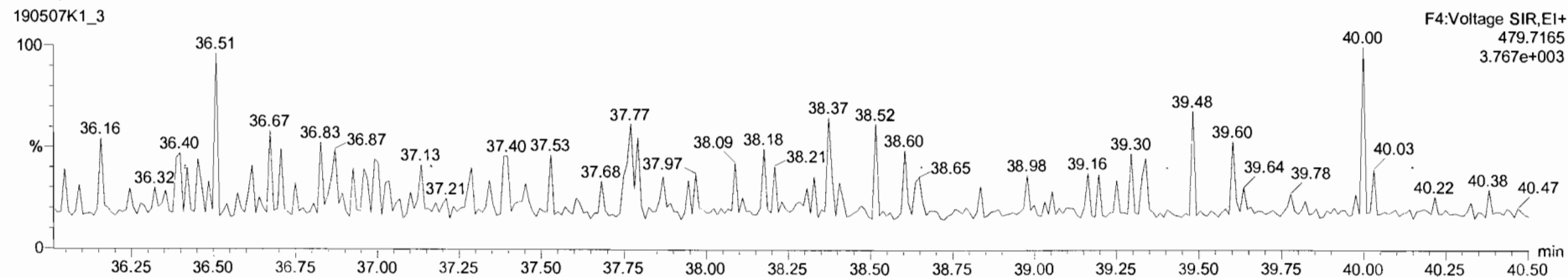
**1,2,3,4,6,7,8-HpCDF**



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



**DPE4**

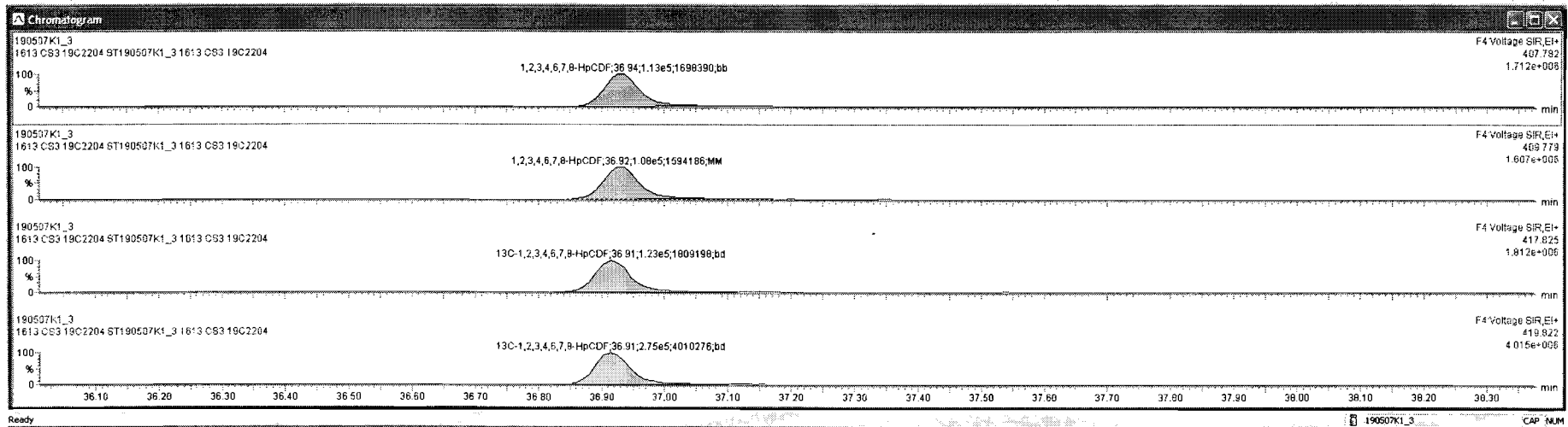


Targetell.ynx - 190507K1-CRV.qld

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190507K1\_3-ST190507K1\_3\_1613 CS3 19C2204 - 1613 CS3 19C2204

SL	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	0.0857	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	33.96	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	

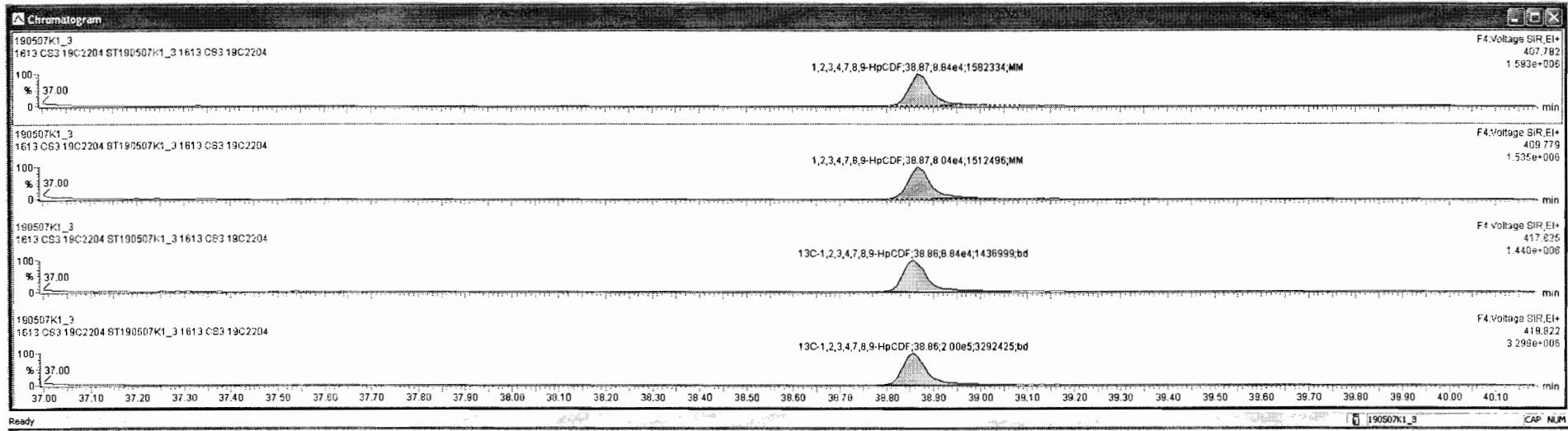


Target: ynx - 190507K1.CRV.qid

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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-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	1.25	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	



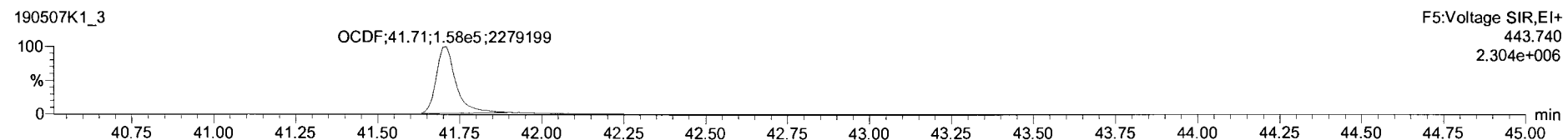
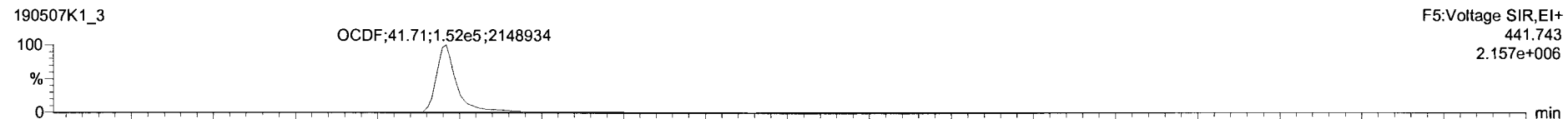
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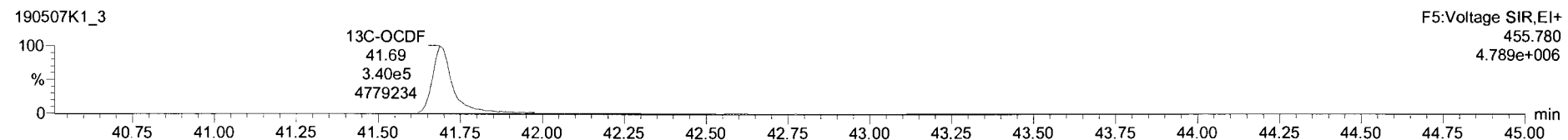
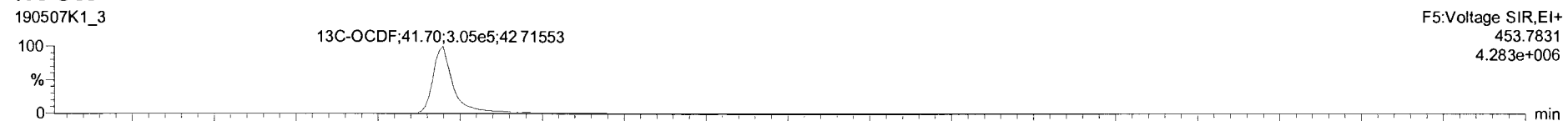
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Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

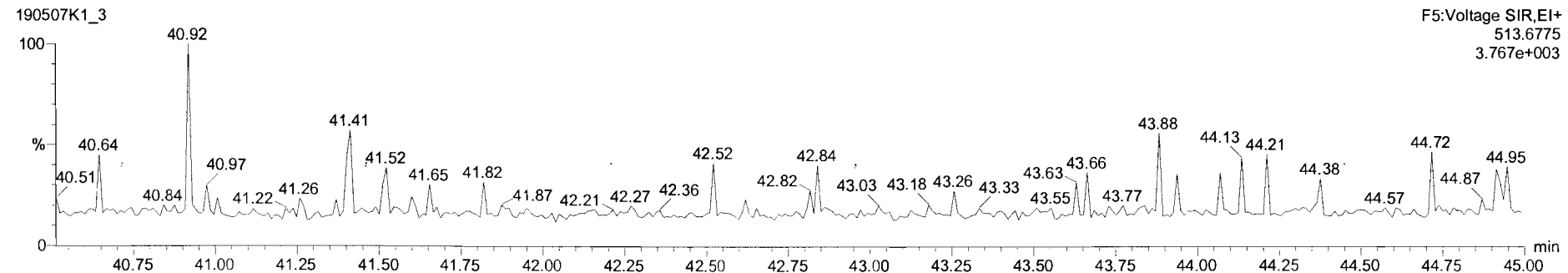
**OCDF**



**13C-OCDF**



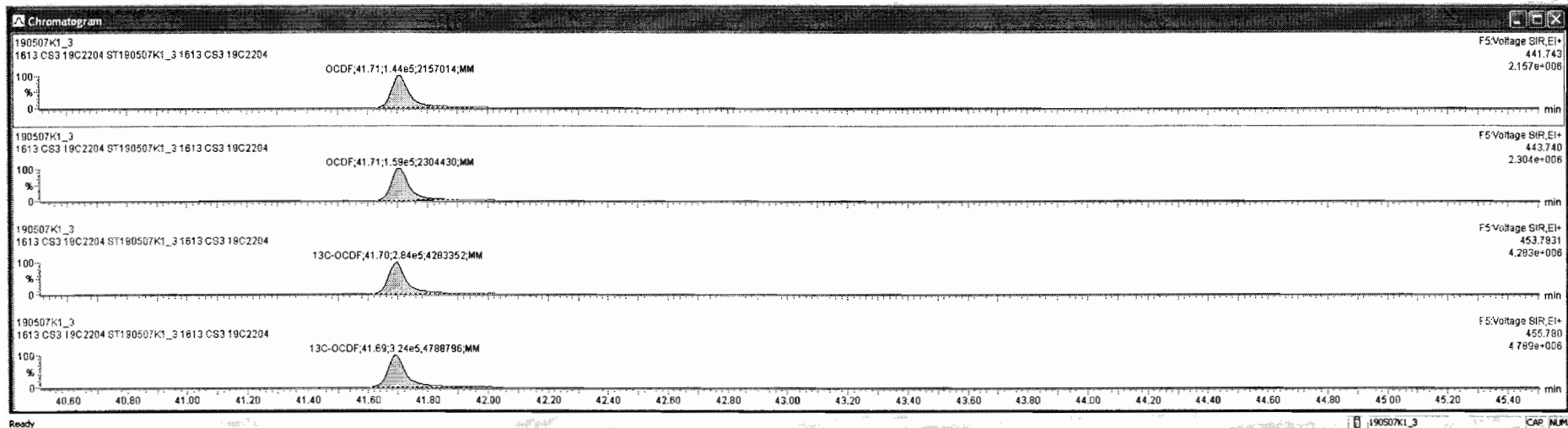
**DPE5**



Targetl.ynx - 190507K1\_CRW.qld

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	

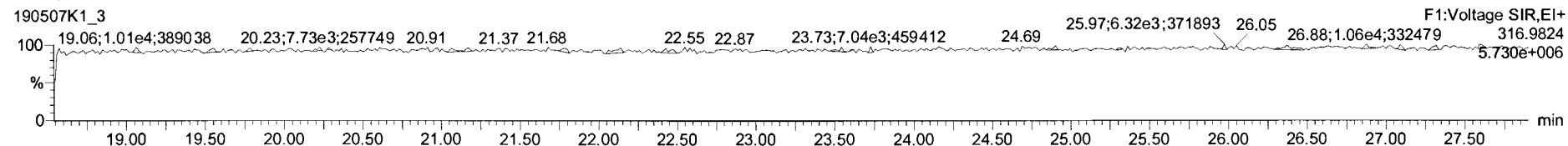


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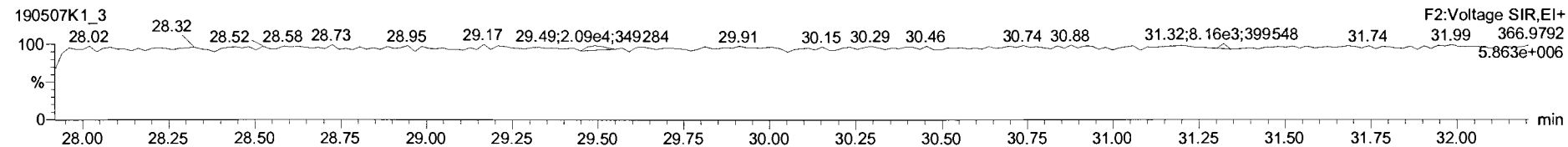
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1\_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

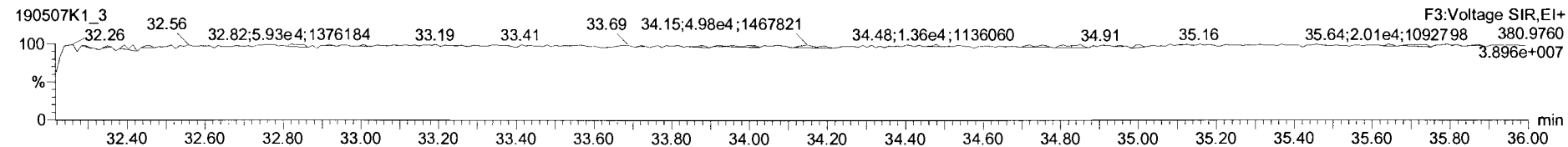
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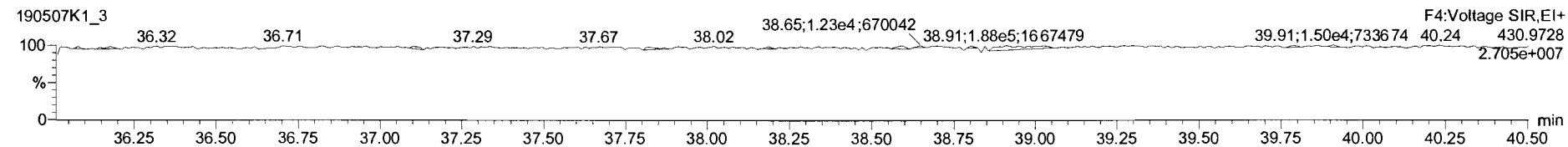
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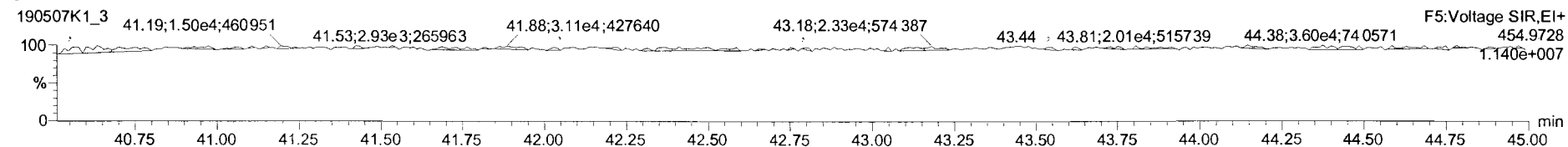
**PFK3**



**PFK4**



**PFK5**



Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

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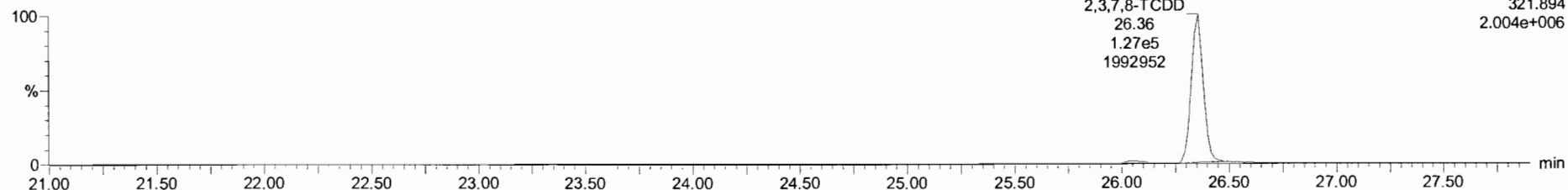
Name: 190507K1\_6, Date: 07-May-2019, Time: 14:39:24, ID: ST190507K1\_6 1613 CS4 19C2205, Description: 1613 CS4 19C2205

### 2,3,7,8-TCDD

190507K1\_6



190507K1\_6

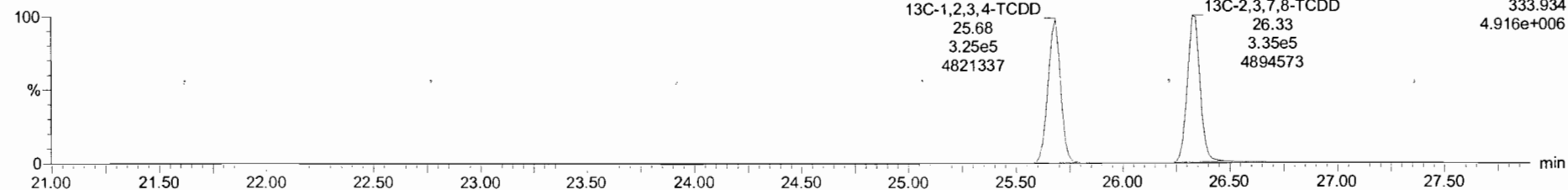


### 13C-2,3,7,8-TCDD

190507K1\_6



190507K1\_6





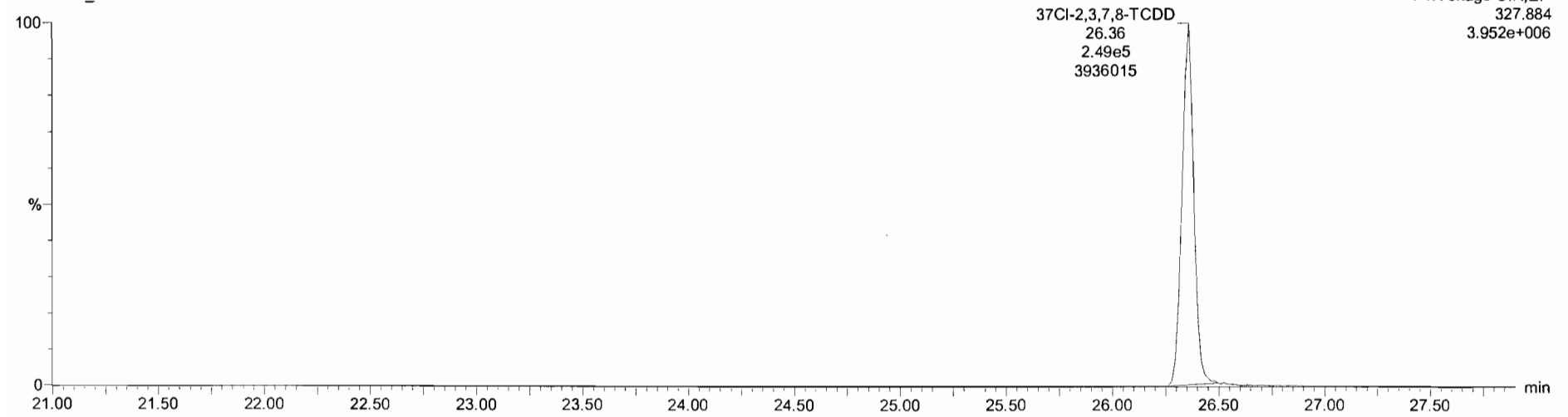
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Name: 190507K1\_6, Date: 07-May-2019, Time: 14:39:24, ID: ST190507K1\_6 1613 CS4 19C2205, Description: 1613 CS4 19C2205

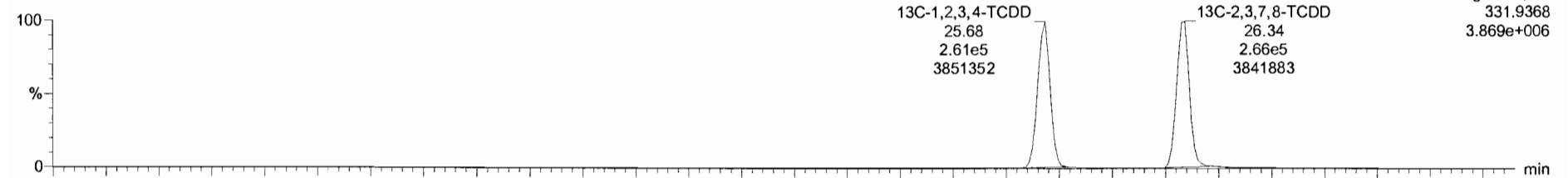
**37Cl-2,3,7,8-TCDD**

190507K1\_6

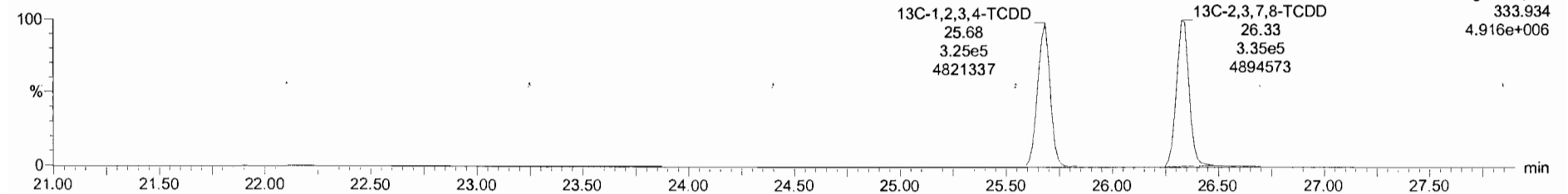


**13C-1,2,3,4-TCDD**

190507K1\_6



190507K1\_6



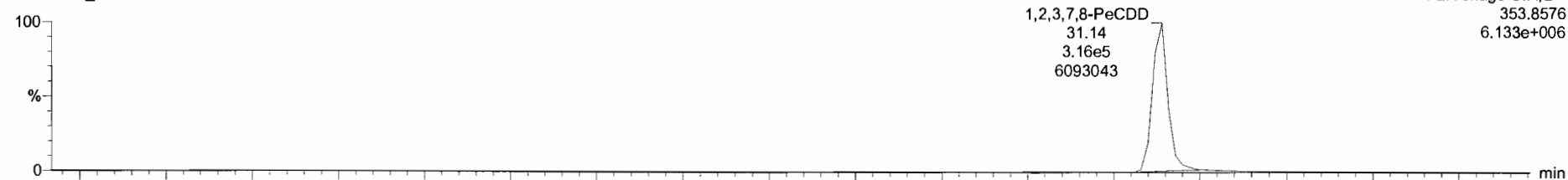
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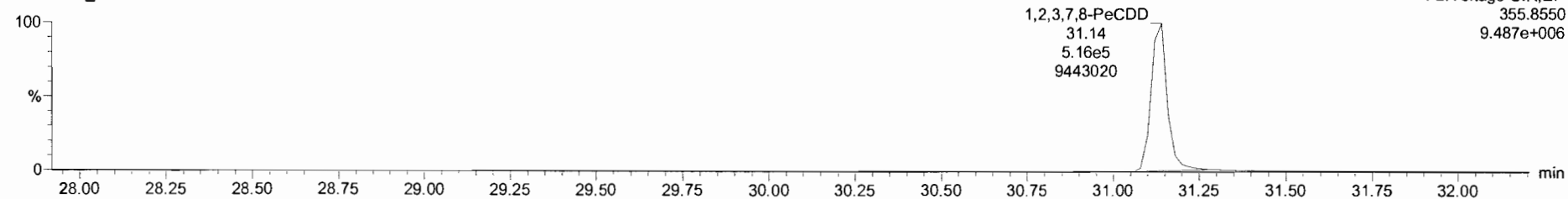
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**1,2,3,7,8-PeCDD**

190507K1\_6

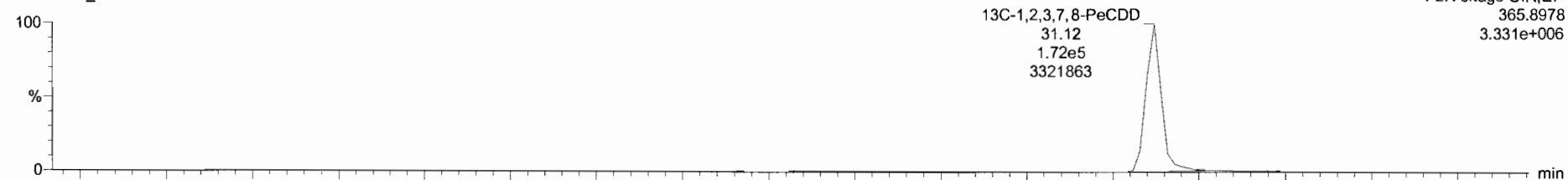


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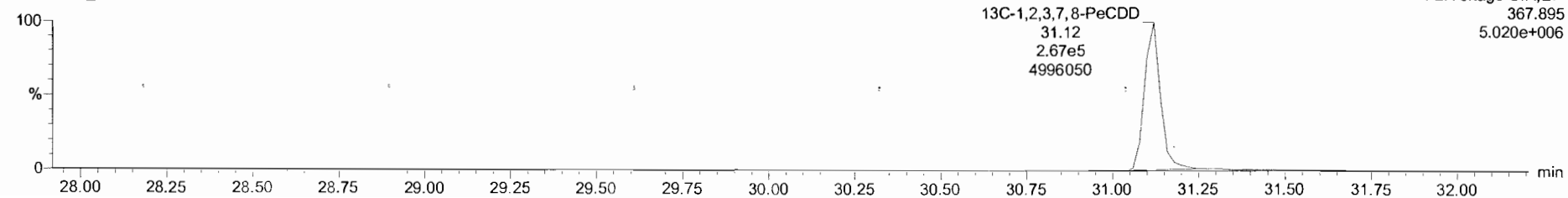


**13C-1,2,3,7,8-PeCDD**

190507K1\_6

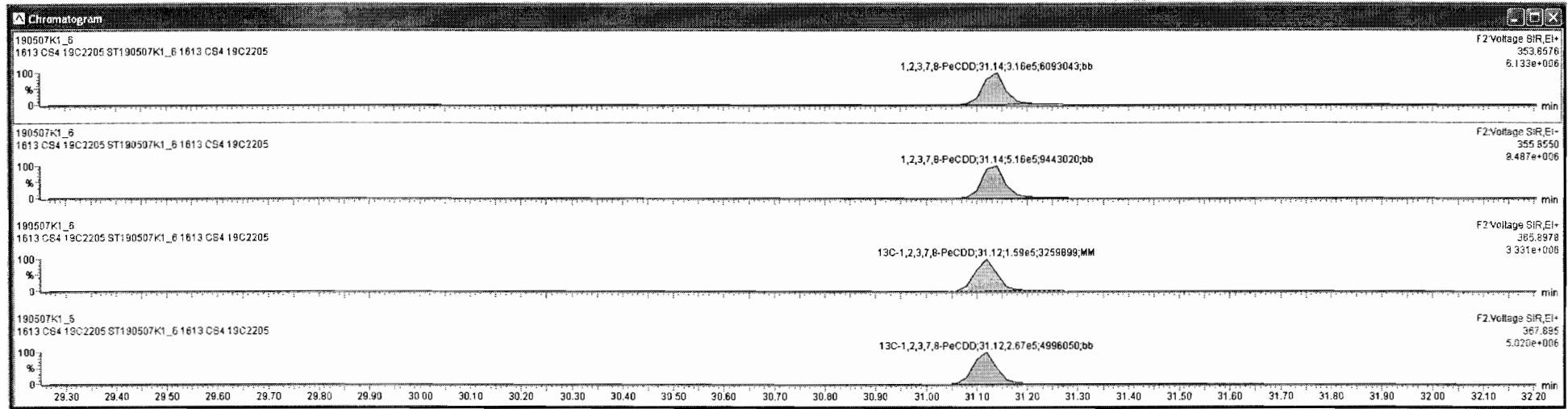
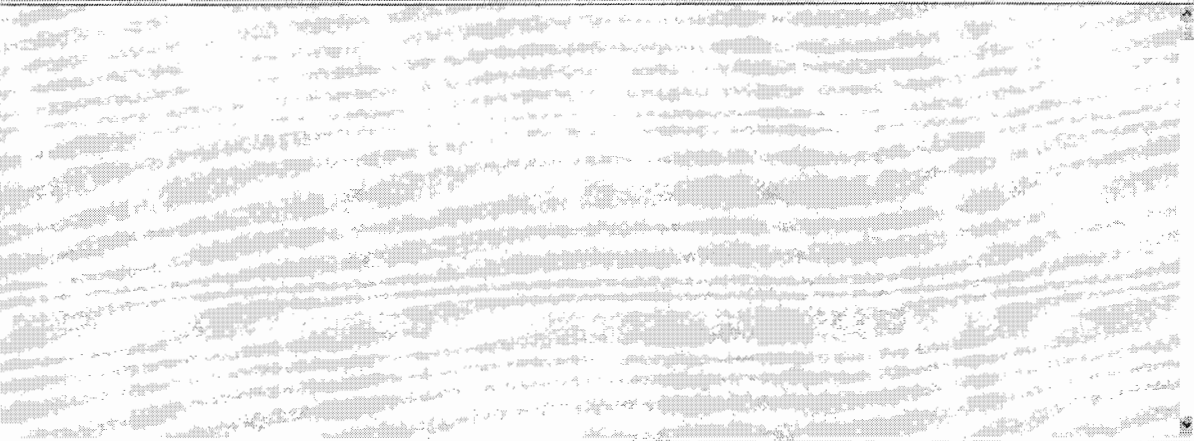


190507K1\_6



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

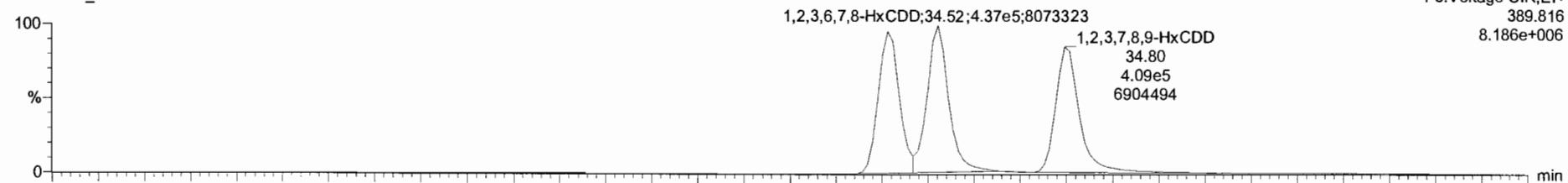
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_6, Date: 07-May-2019, Time: 14:39:24, ID: ST190507K1\_6 1613 CS4 19C2205, Description: 1613 CS4 19C2205

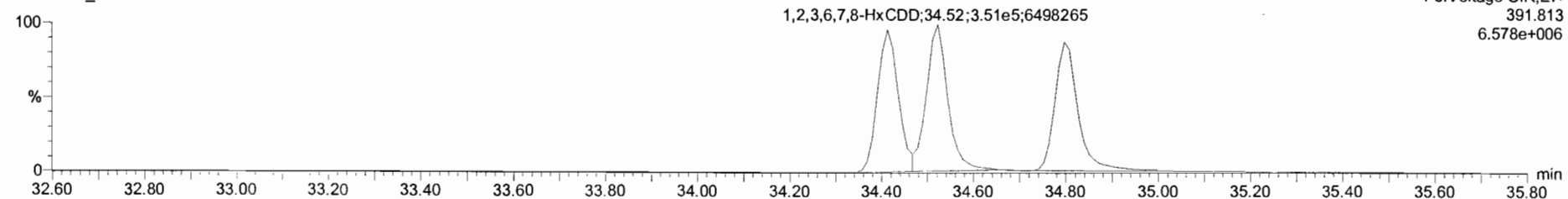
**1,2,3,4,7,8-HxCDD**

190507K1\_6



F3: Voltage SIR, EI+  
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8.186e+006

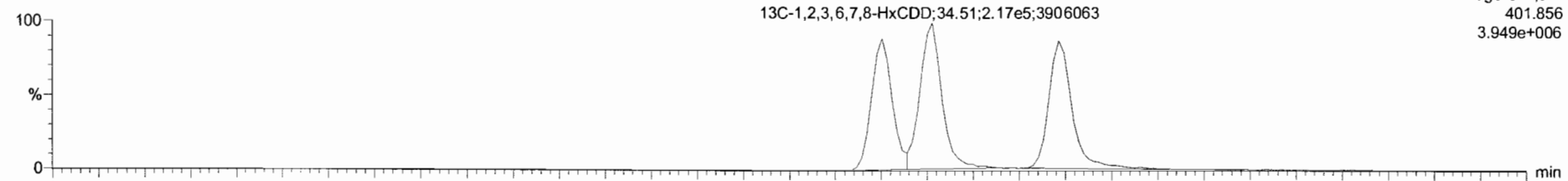
190507K1\_6



F3: Voltage SIR, EI+  
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6.578e+006

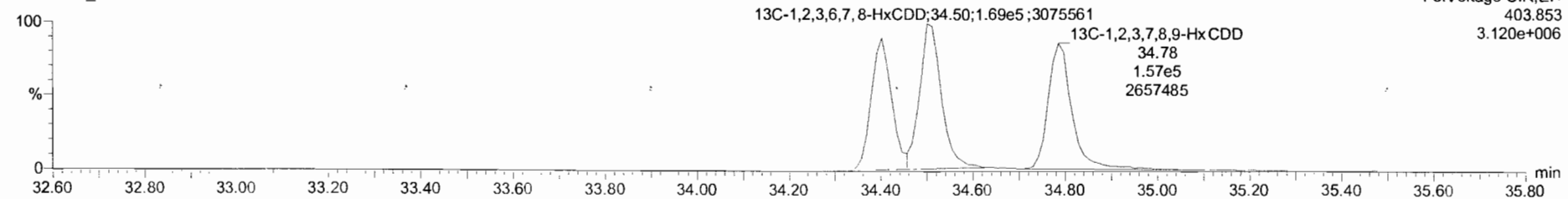
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190507K1\_6



F3: Voltage SIR, EI+  
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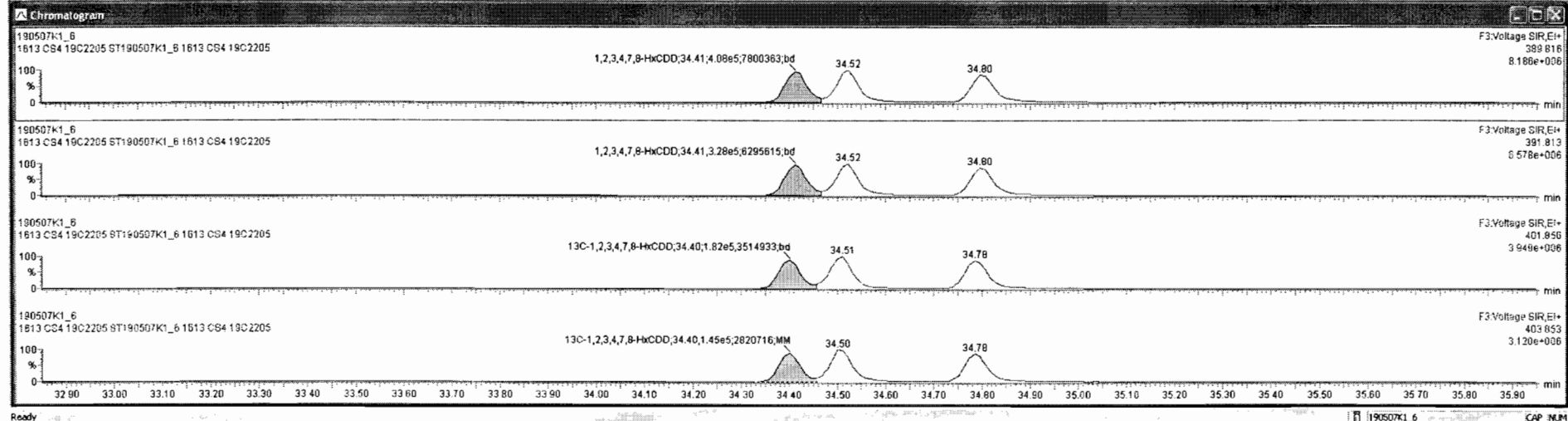
190507K1\_6



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	

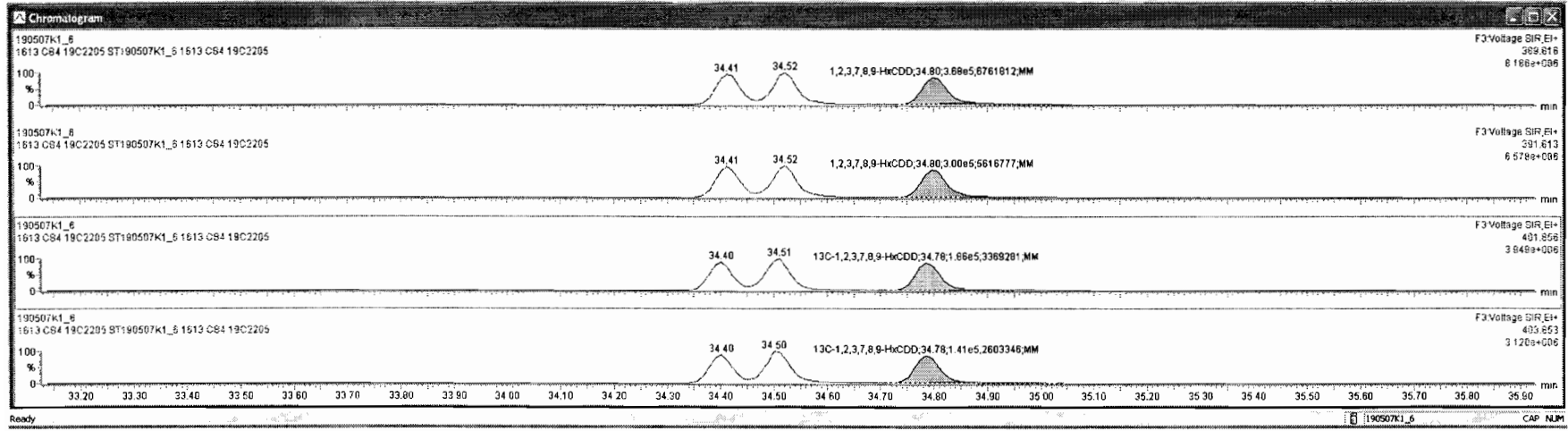


TargetLynx - 190507K1\_CRY.qld

File Edit View Display Processing Window Help

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	



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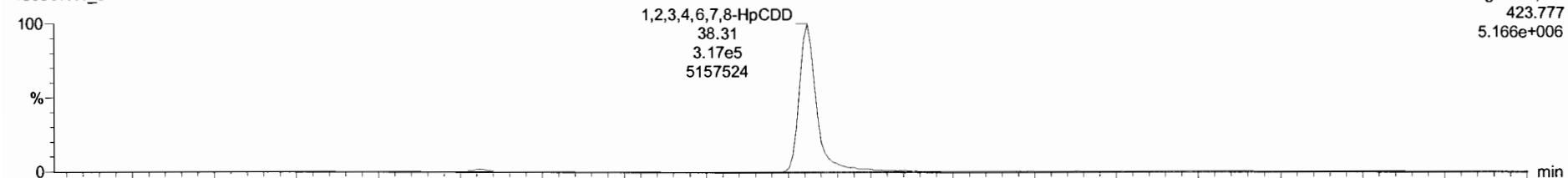
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Name: 190507K1\_6, Date: 07-May-2019, Time: 14:39:24, ID: ST190507K1\_6 1613 CS4 19C2205, Description: 1613 CS4 19C2205

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

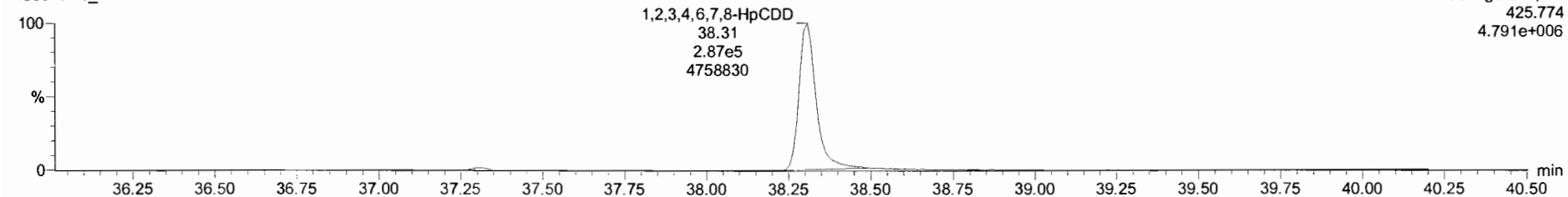
190507K1\_6

F4:Voltage SIR,EI+  
423.777  
5.166e+006



190507K1\_6

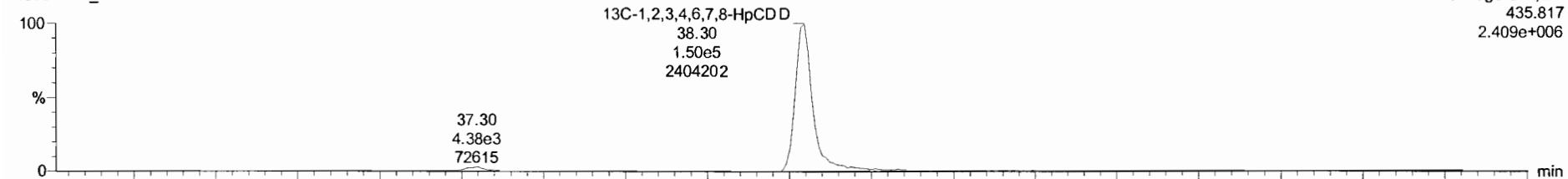
F4:Voltage SIR,EI+  
425.774  
4.791e+006



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

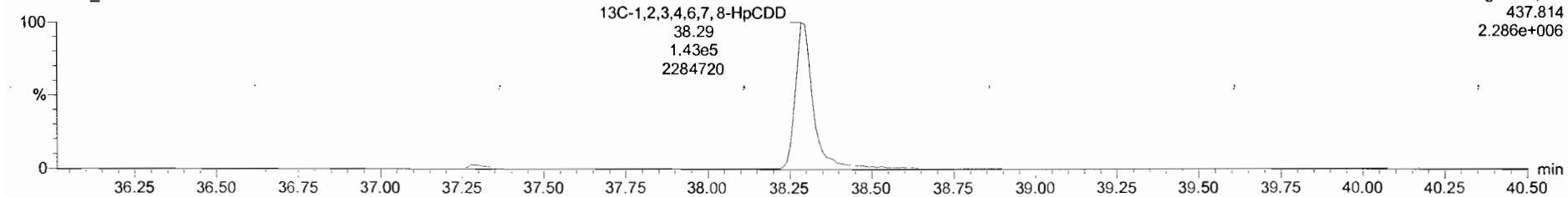
190507K1\_6

F4:Voltage SIR,EI+  
435.817  
2.409e+006

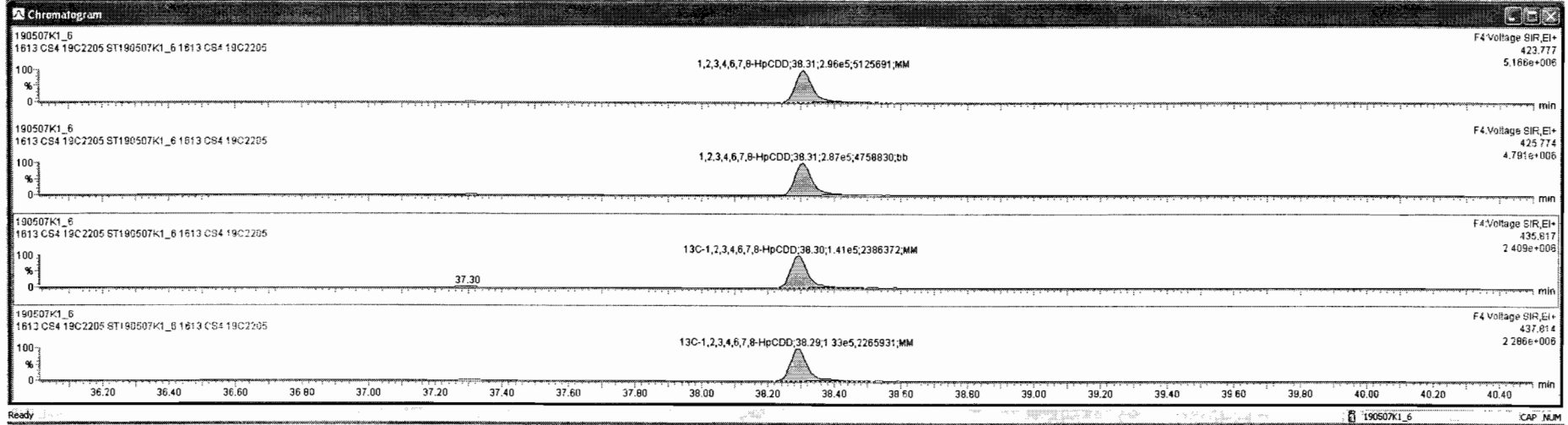


190507K1\_6

F4:Voltage SIR,EI+  
437.814  
2.286e+006



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	





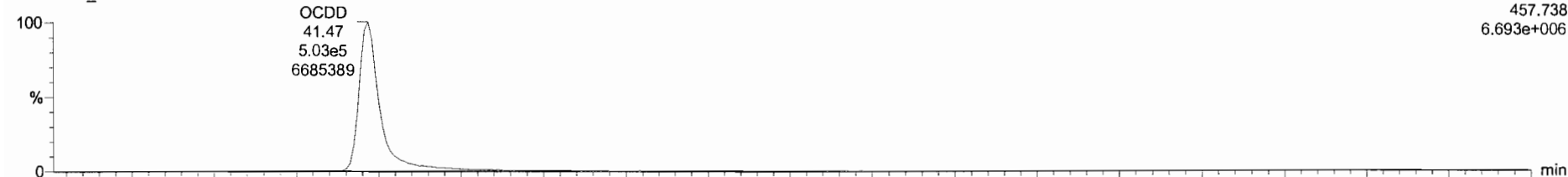
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_6, Date: 07-May-2019, Time: 14:39:24, ID: ST190507K1\_6 1613 CS4 19C2205, Description: 1613 CS4 19C2205

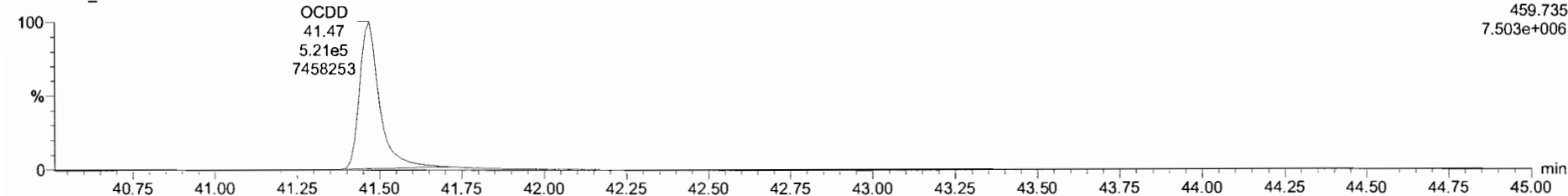
**OCDD**

190507K1\_6



F5:Voltage SIR,EI+  
457.738  
6.693e+006

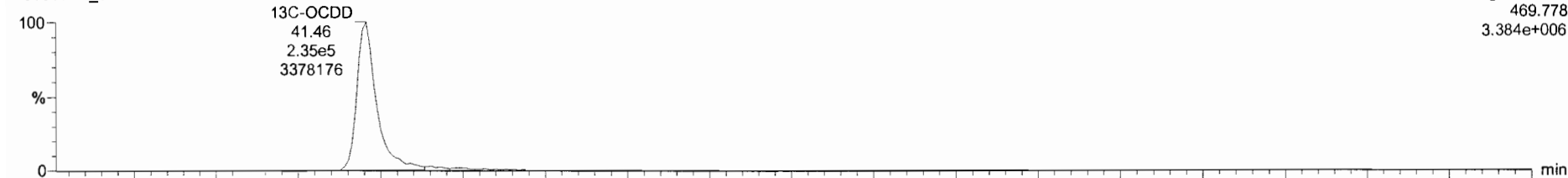
190507K1\_6



F5:Voltage SIR,EI+  
459.735  
7.503e+006

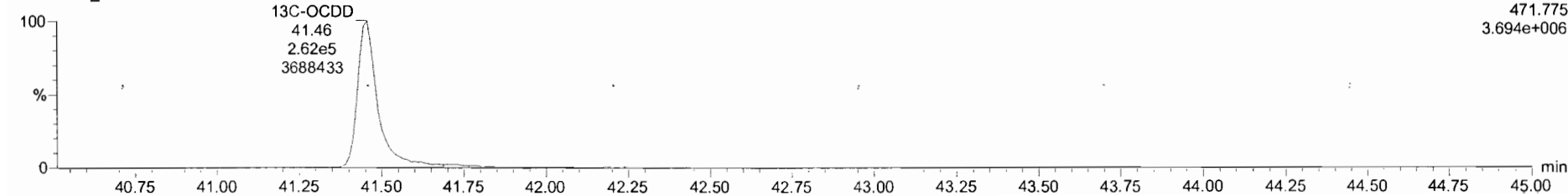
**13C-OCDD**

190507K1\_6



F5:Voltage SIR,EI+  
469.778  
3.384e+006

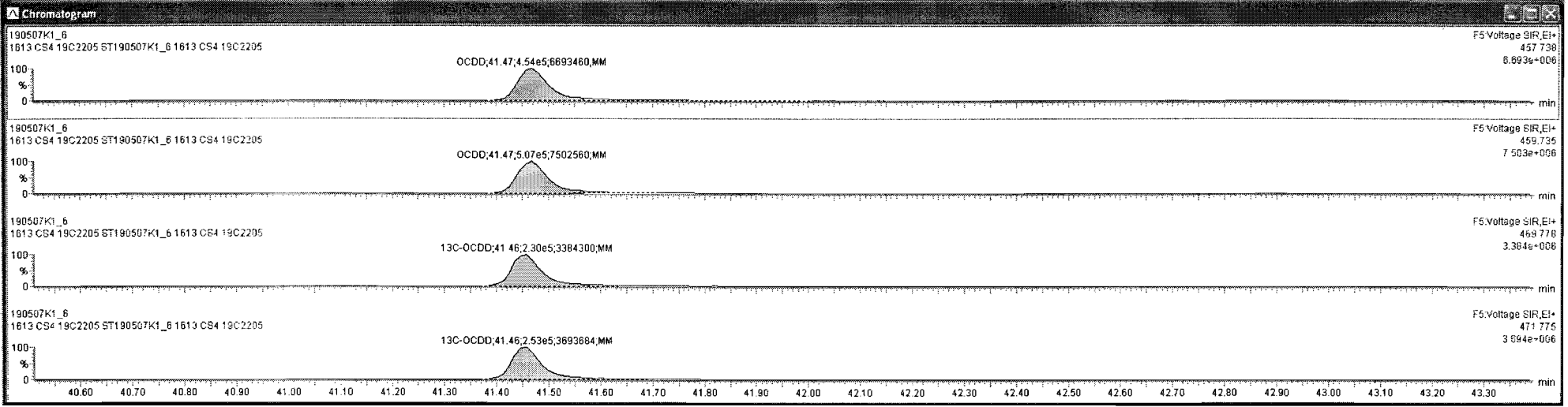
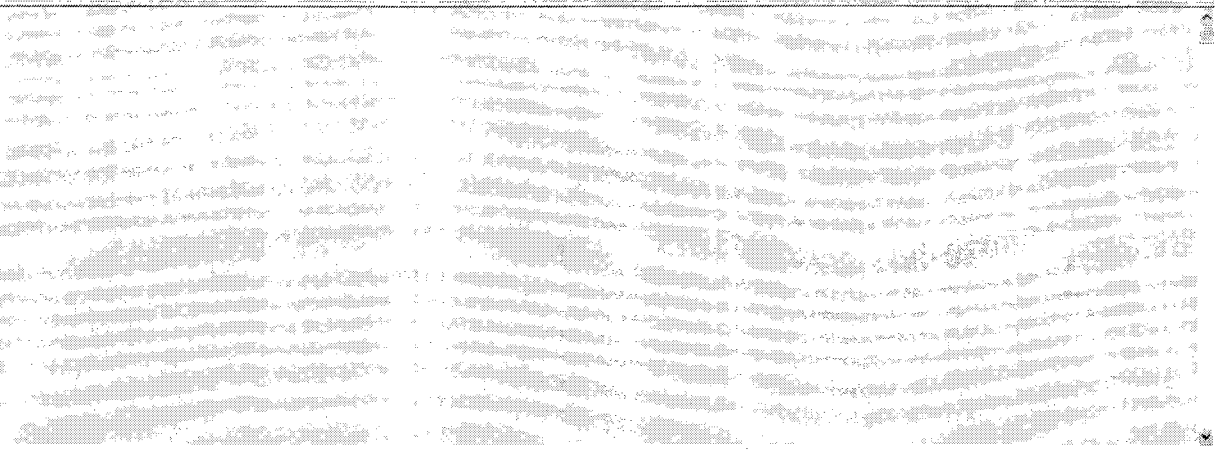
190507K1\_6



F5:Voltage SIR,EI+  
471.775  
3.694e+006

190507K1\_6 - ST190507K1\_6 1613 CS4 19C2205 - 1613 CS4 19C2205

Comp	Name	Resp	RA	INA	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	



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

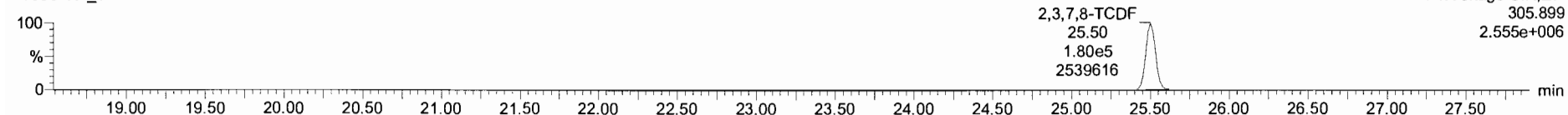
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190507K1\_6



F1:Voltage SIR,EI+  
303.9016  
1.997e+006

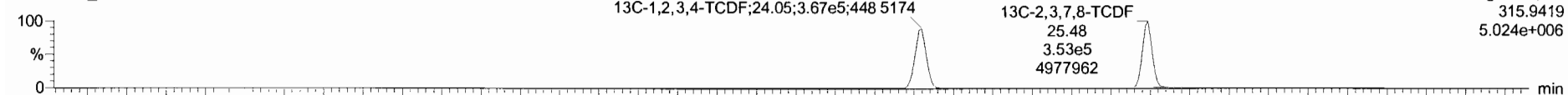
190507K1\_6



F1:Voltage SIR,EI+  
305.899  
2.555e+006

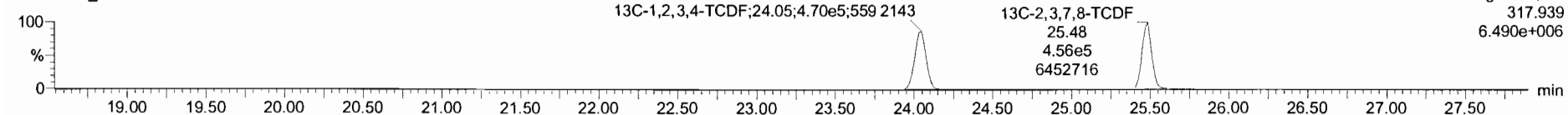
**13C-2,3,7,8-TCDF**

190507K1\_6



F1:Voltage SIR,EI+  
315.9419  
5.024e+006

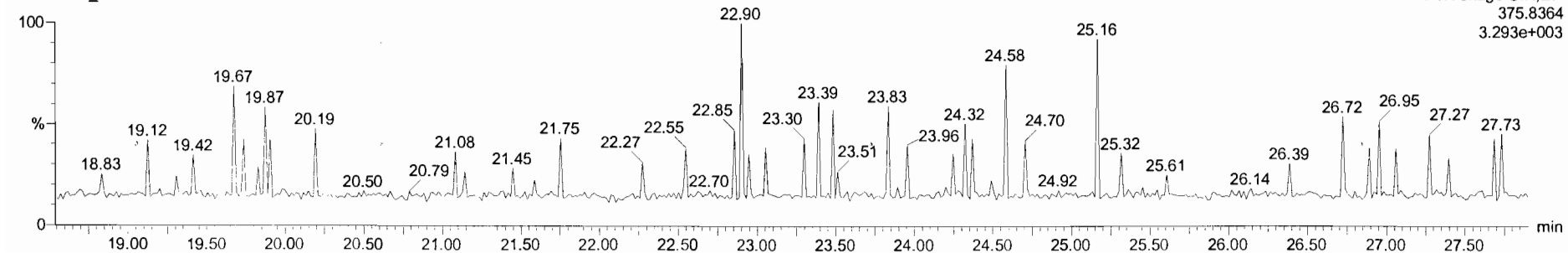
190507K1\_6



F1:Voltage SIR,EI+  
317.939  
6.490e+006

**DPE1**

190507K1\_6



F1:Voltage SIR,EI+  
375.8364  
3.293e+003

Dataset: Untitled

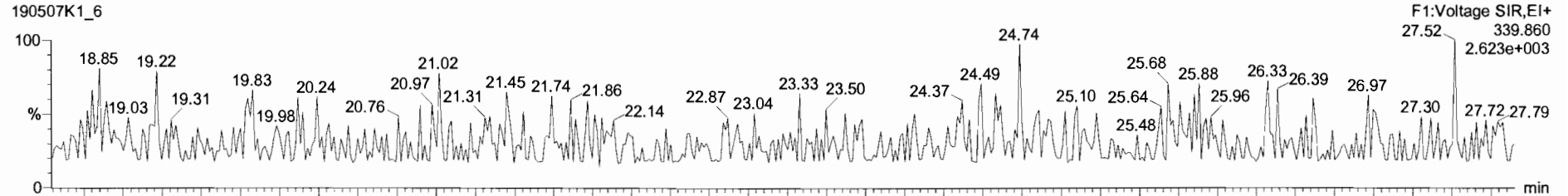
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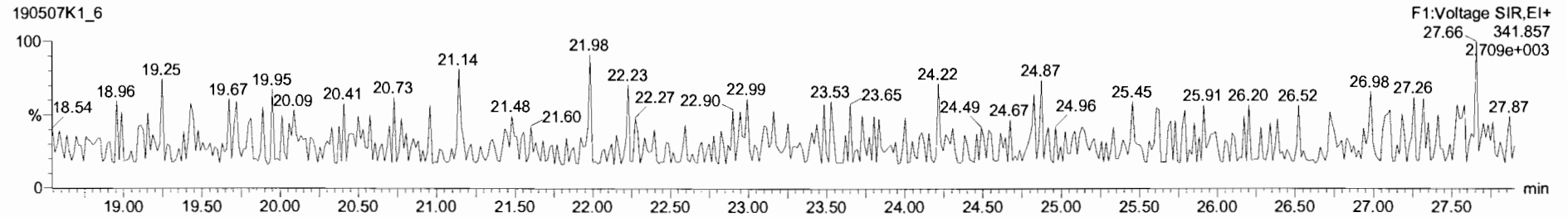
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1st Func. Penta-Furans

190507K1\_6

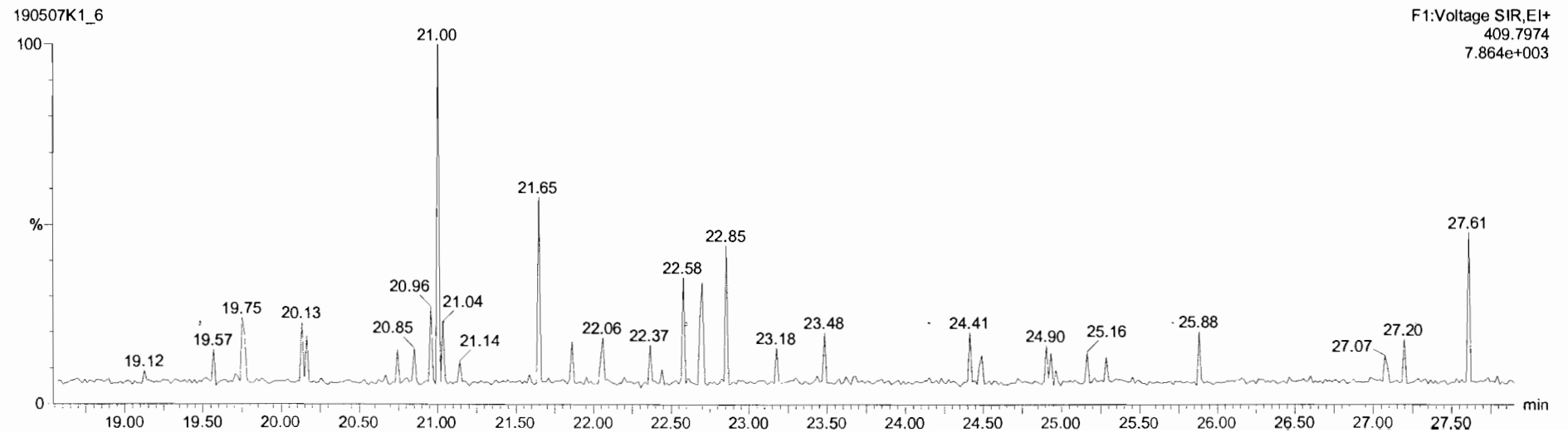


190507K1\_6



DPE6

190507K1\_6



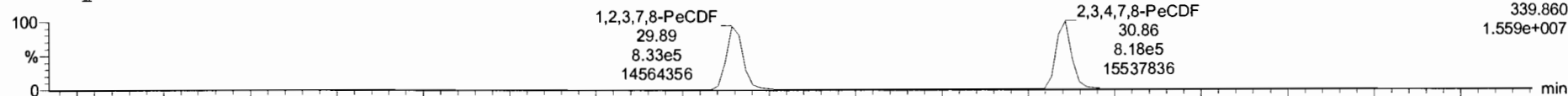
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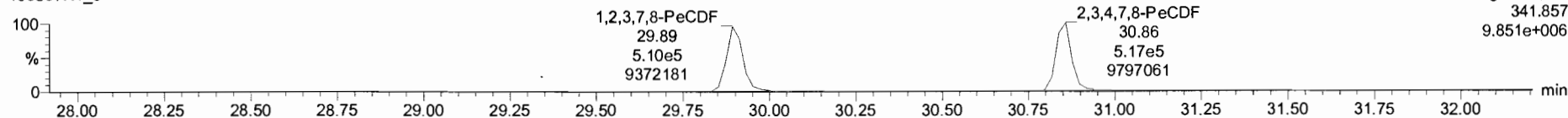
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**1,2,3,7,8-PeCDF**

190507K1\_6

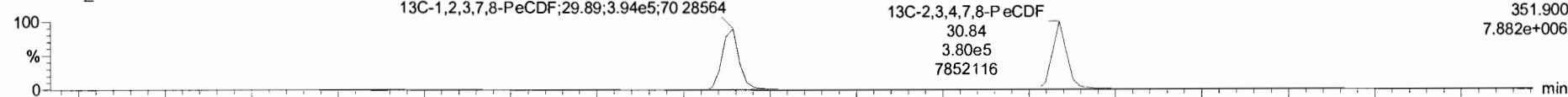


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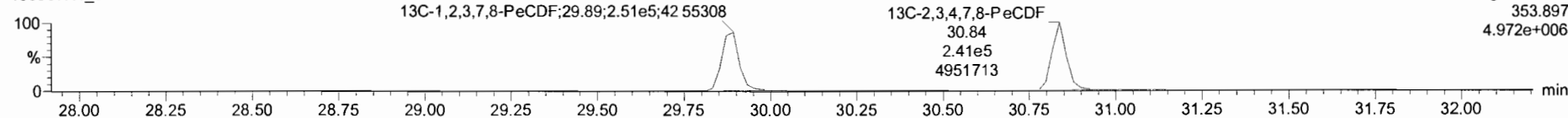


**13C-1,2,3,7,8-PeCDF**

190507K1\_6

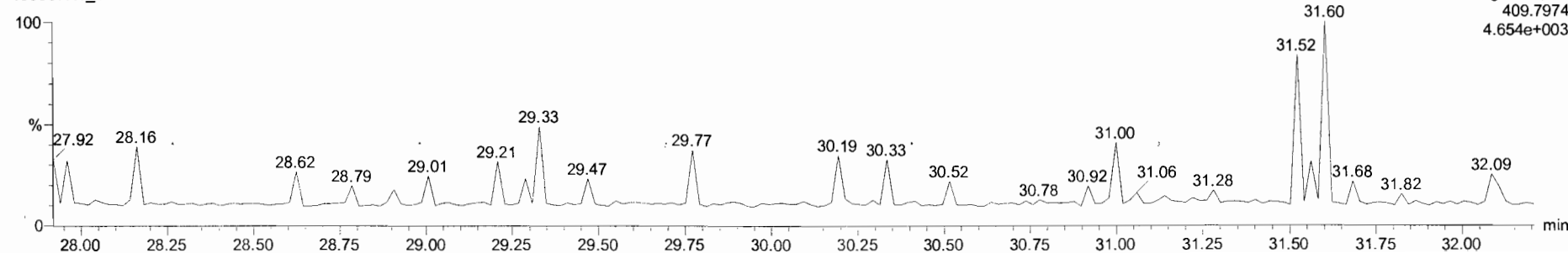


190507K1\_6



**DPE2**

190507K1\_6



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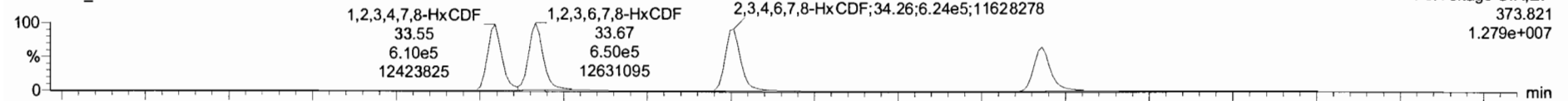
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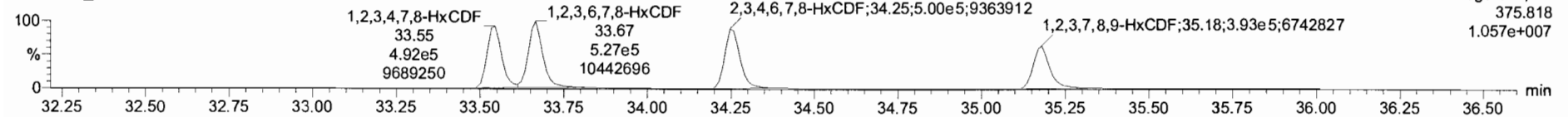
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**1,2,3,4,7,8-HxCDF**

190507K1\_6

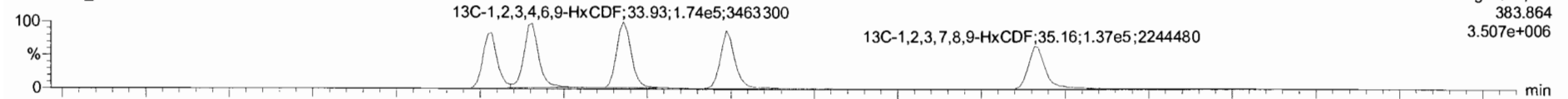


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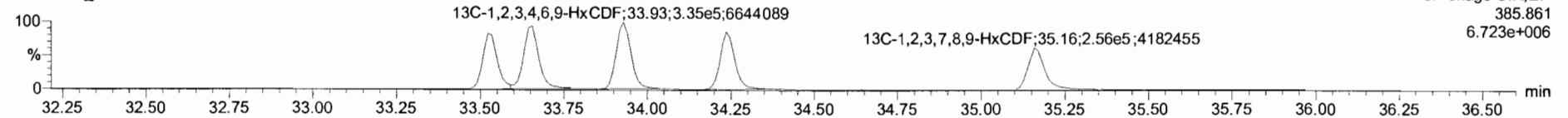


**13C-1,2,3,4,7,8-HxCDF**

190507K1\_6

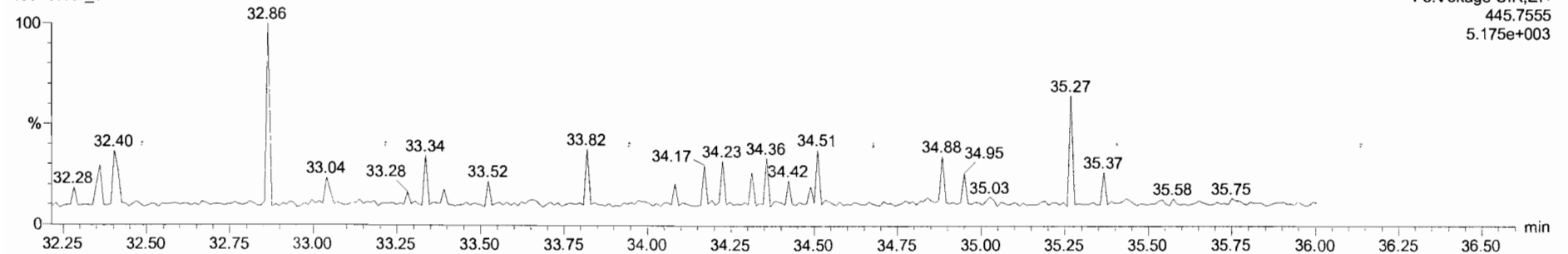


190507K1\_6



**DPE3**

190507K1\_6

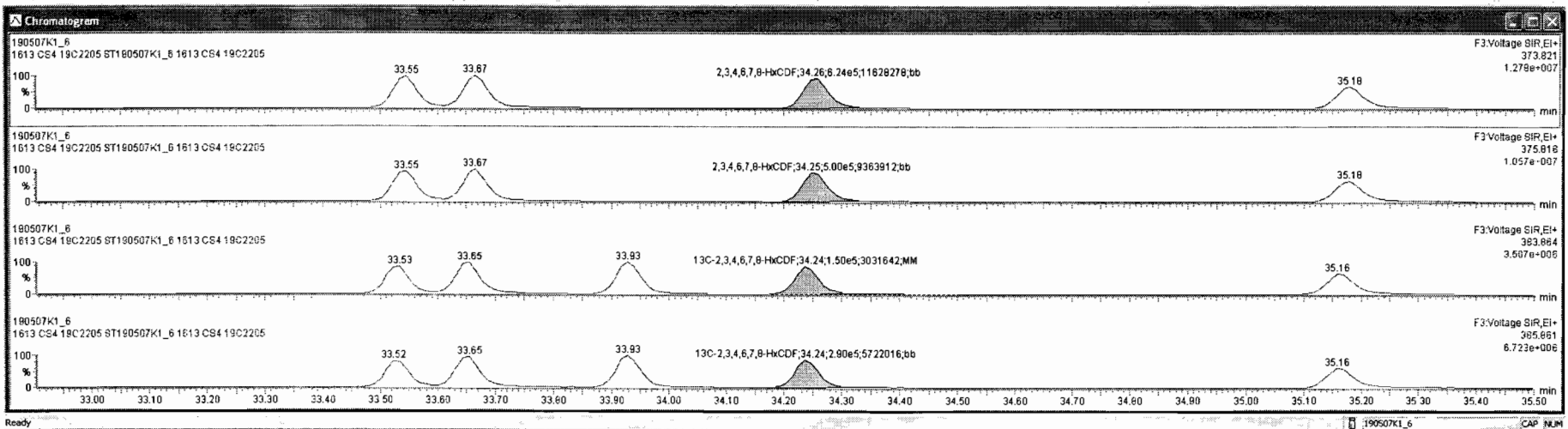


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File Edit View Display Processing Window Help

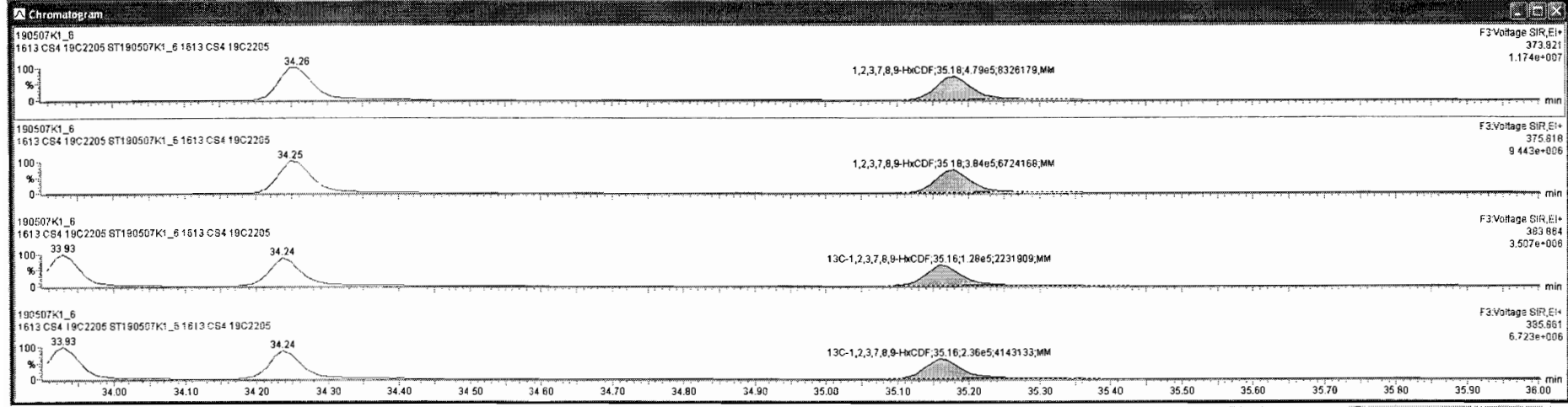
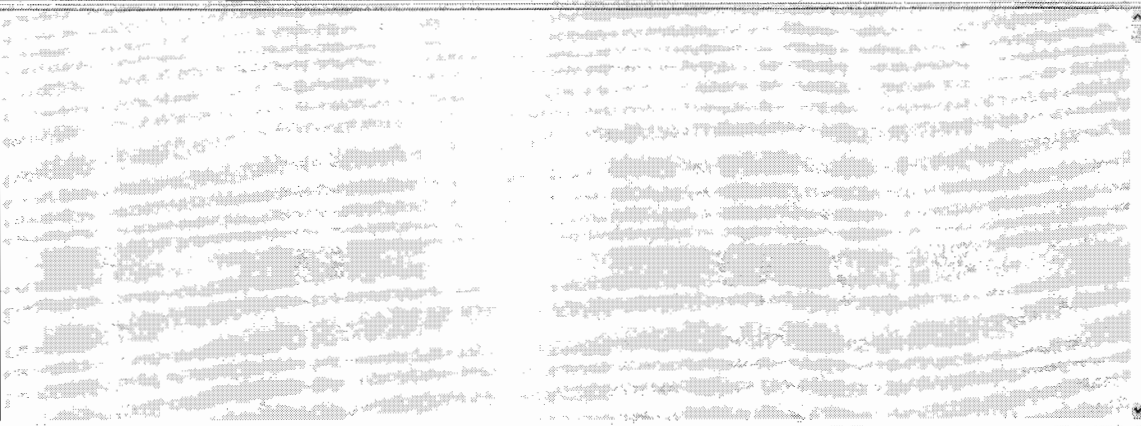
190507K1\_6 - ST190507K1\_6 1613 CS4 19C2205 - 1613 CS4 19C2205

#	Name	Resp	RA	oxy	RRF	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	0.0730	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	1.21e6	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	1.26	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	0.367	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	0.60	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	





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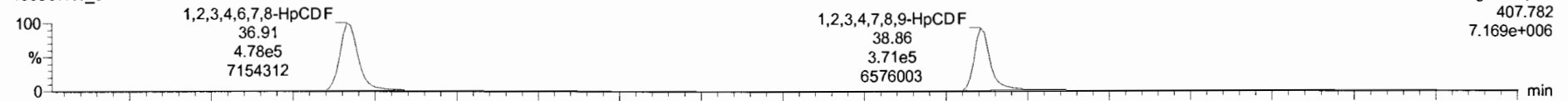
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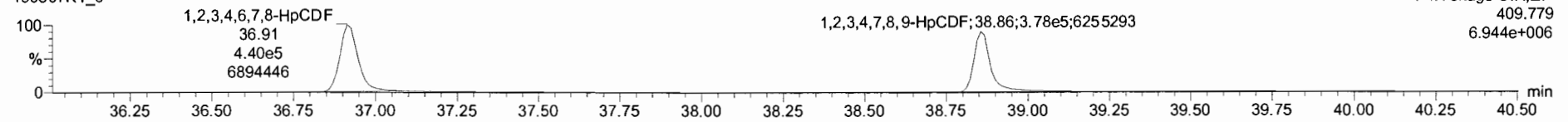
**1,2,3,4,6,7,8-HpCDF**

190507K1\_6



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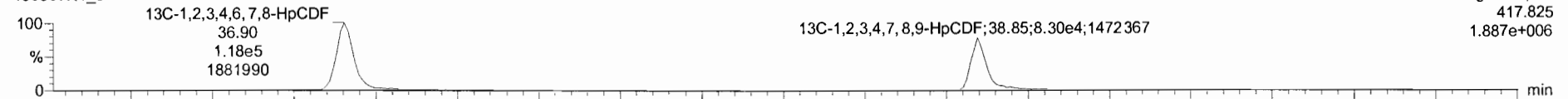
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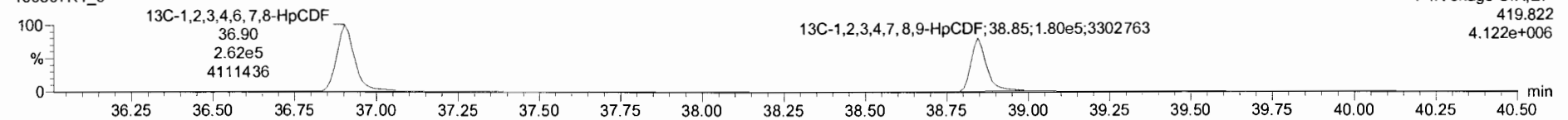
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190507K1\_6



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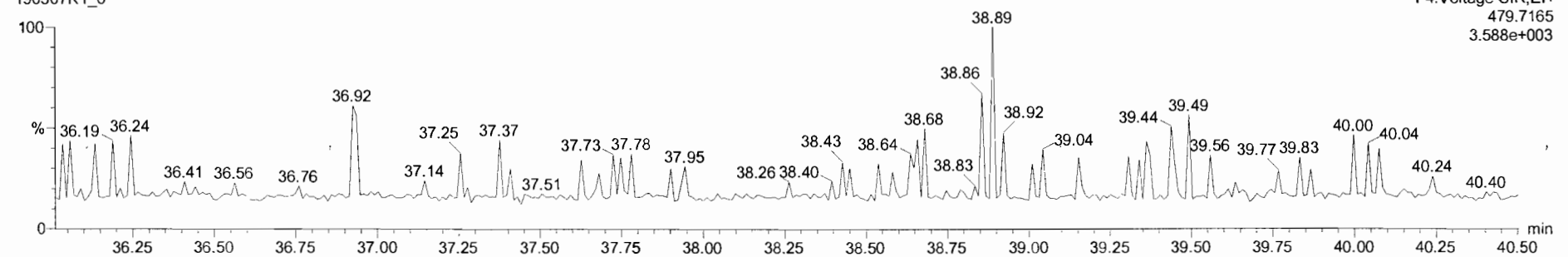
190507K1\_6



F4:Voltage SIR,EI+  
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**DPE4**

190507K1\_6

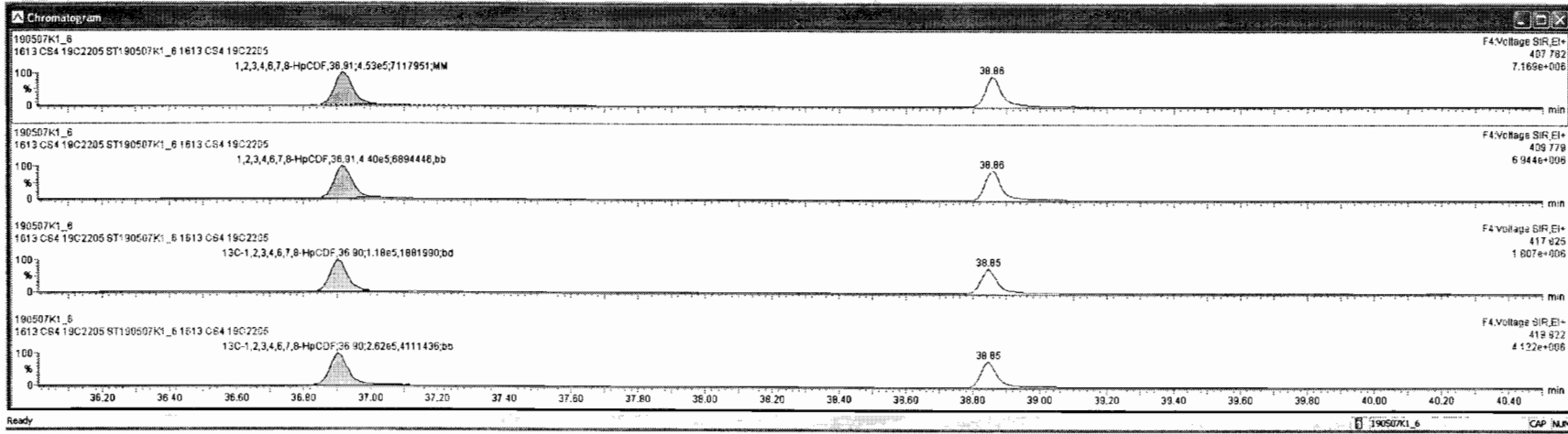


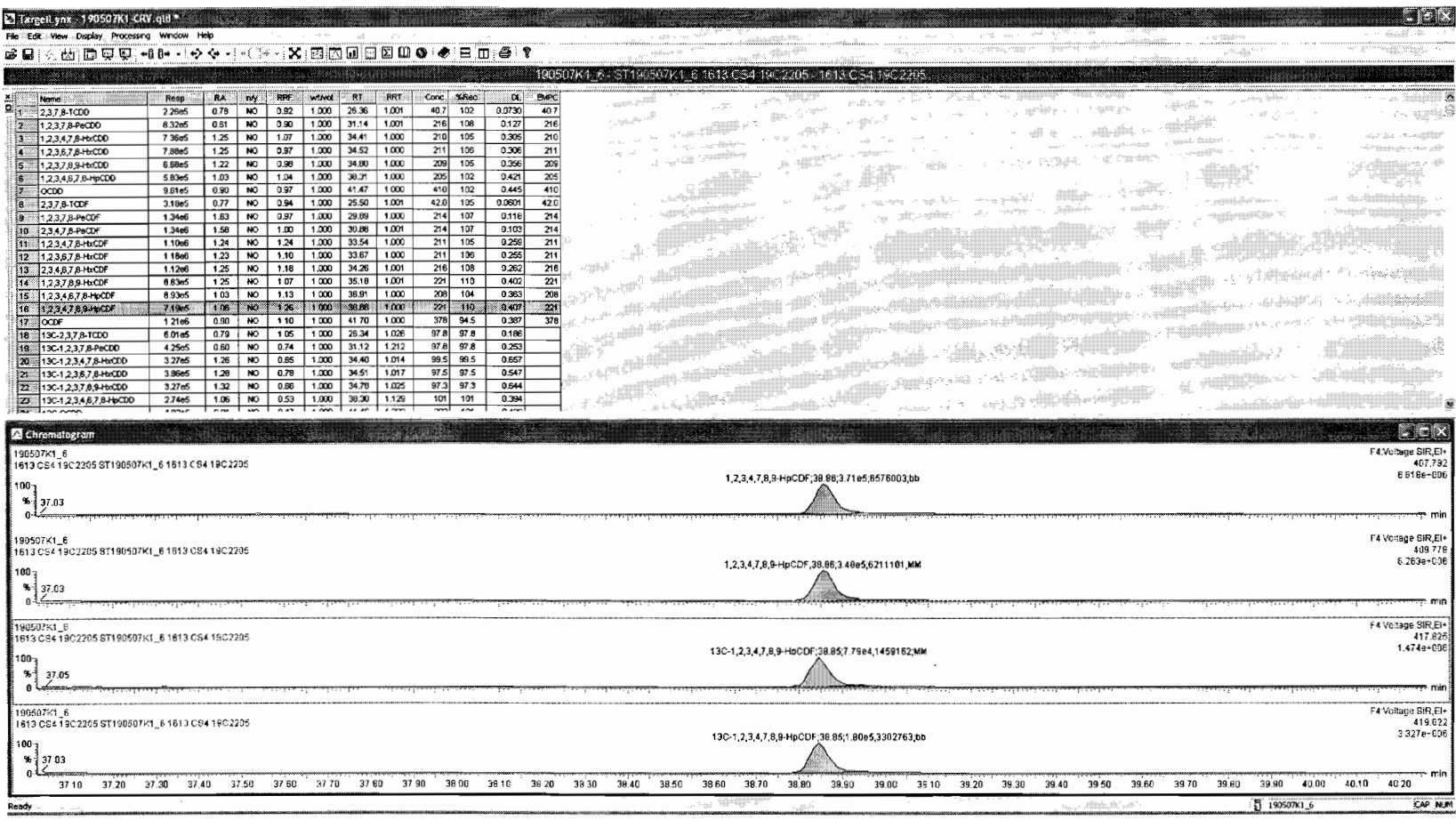
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3.588e+003

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190507K1\_6 - ST190507K1\_6\_1613 CS4 19C2205 - 1613 CS4 19C2205

Name	Resp	RA	rtf	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 1,3C-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 1,3C-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 1,3C-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 1,3C-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 1,3C-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 1,3C-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	





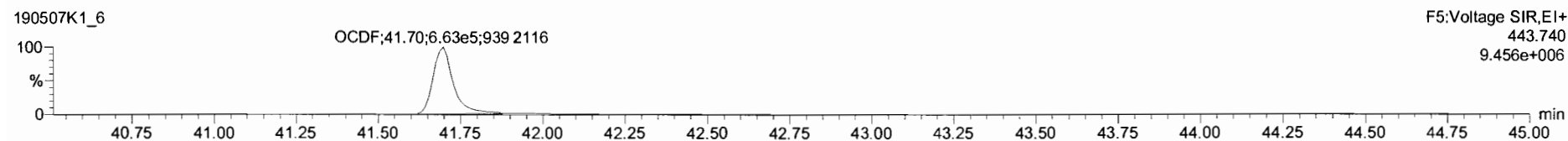
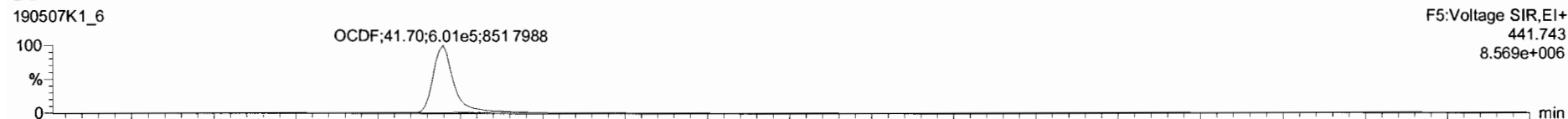
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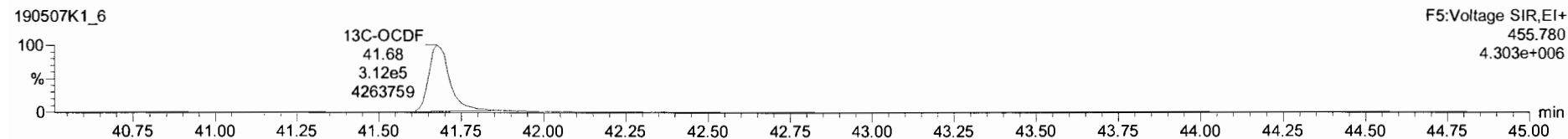
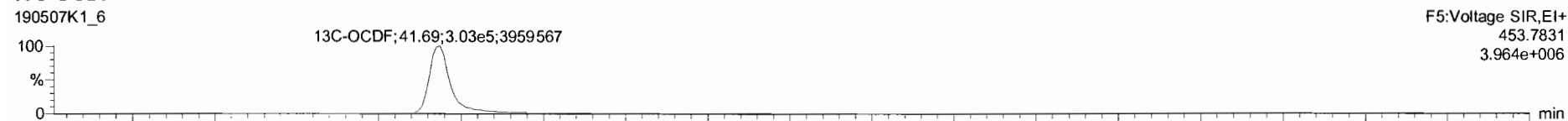
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Name: 190507K1\_6, Date: 07-May-2019, Time: 14:39:24, ID: ST190507K1\_6 1613 CS4 19C2205, Description: 1613 CS4 19C2205

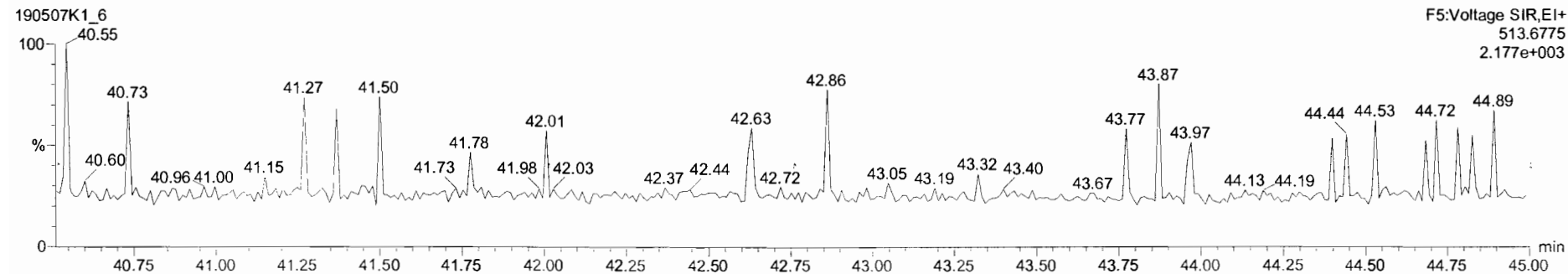
**OCDF**



**<sup>13</sup>C-OCDF**

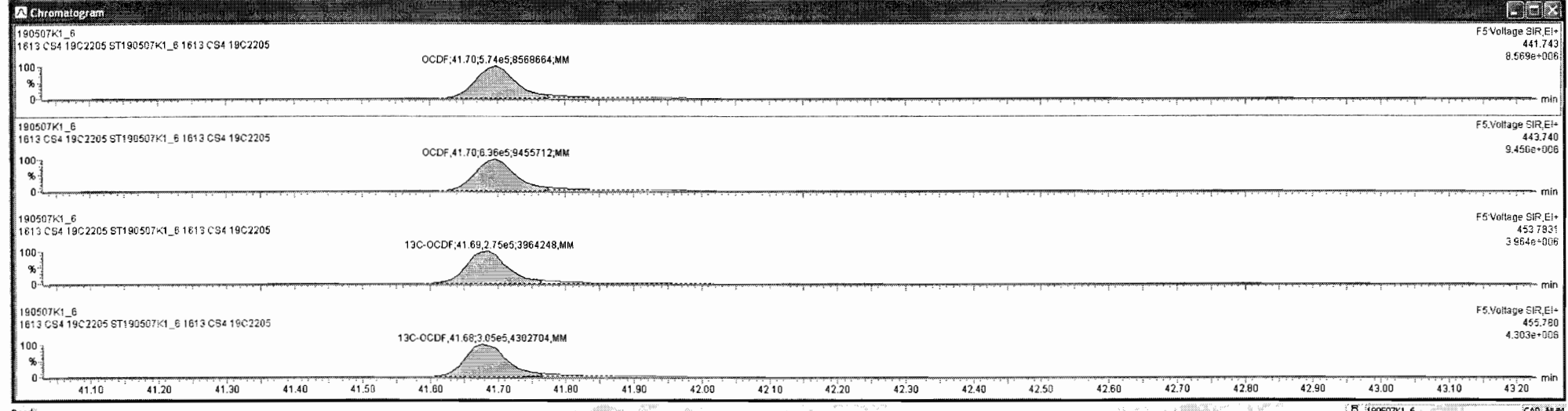
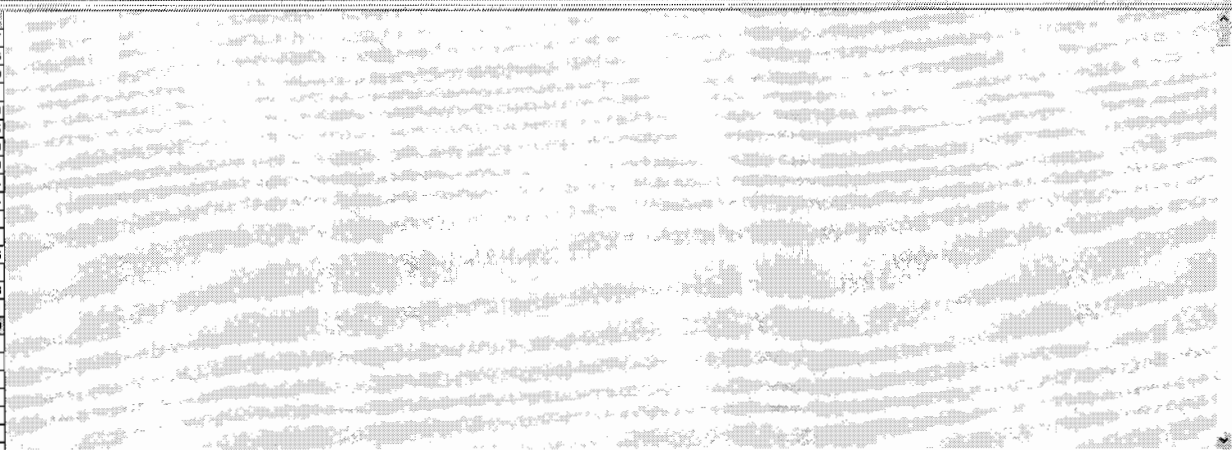


**DPE5**



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	7.88e5	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	1.18e6	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	



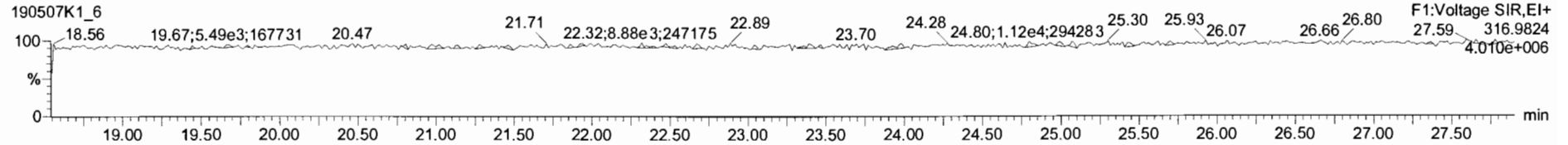
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

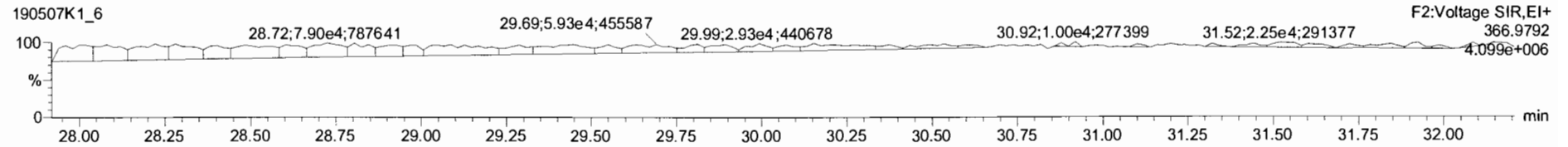
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

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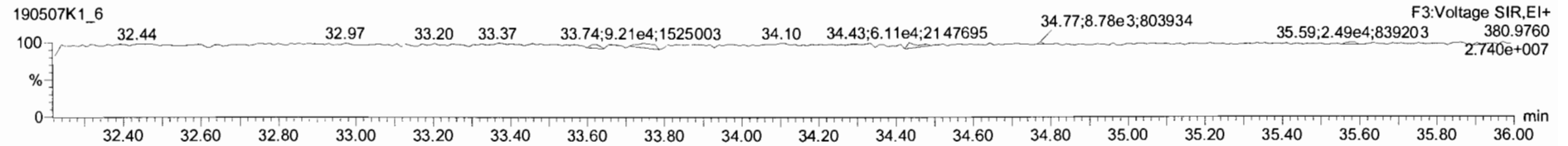
**PFK1**



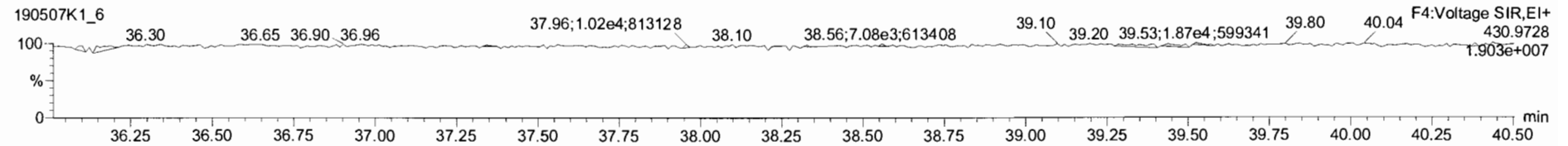
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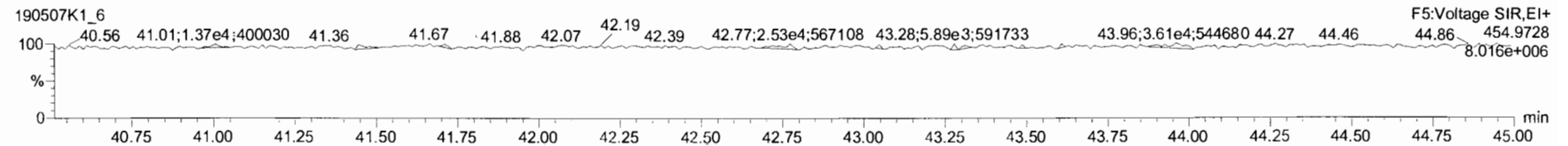
**PFK3**



**PFK4**



**PFK5**



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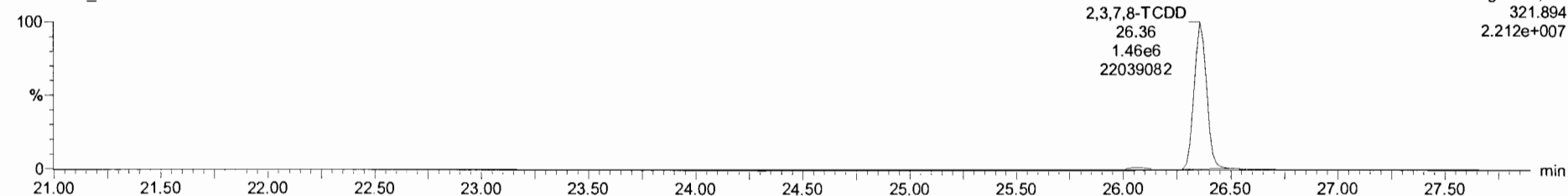
Name: 190507K1\_7, Date: 07-May-2019, Time: 15:27:02, ID: ST190507K1\_7 1613 CS5 19C2206, Description: 1613 CS5 19C2206

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

190507K1\_7



190507K1\_7

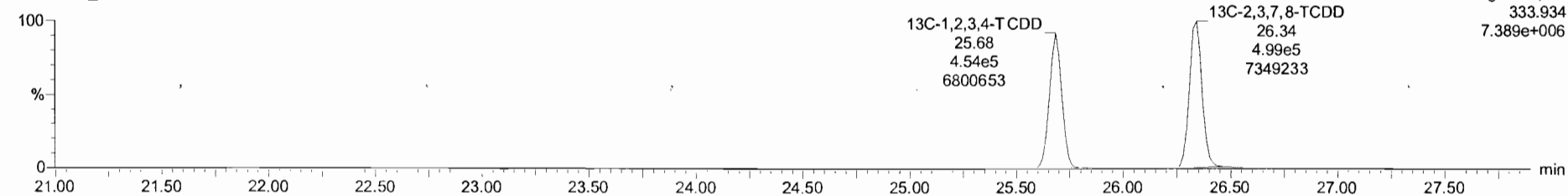


**13C-2,3,7,8-TCDD**

190507K1\_7



190507K1\_7



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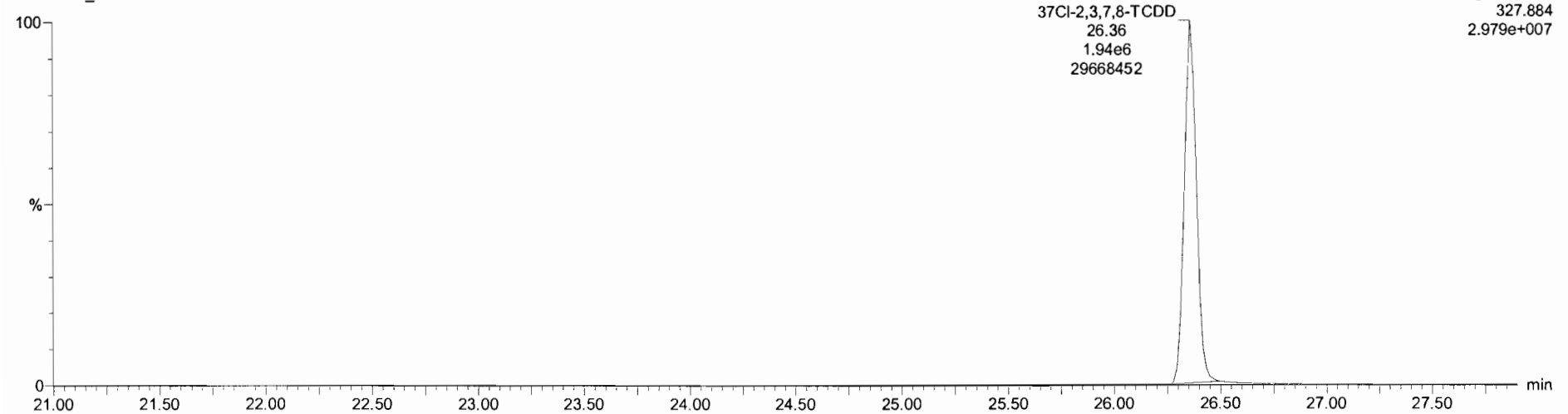
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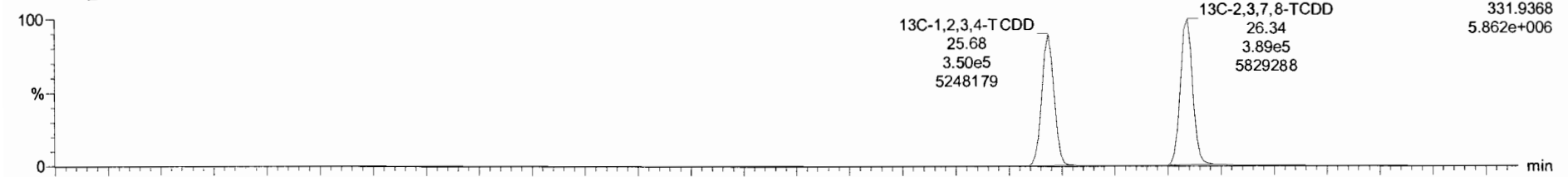
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190507K1\_7

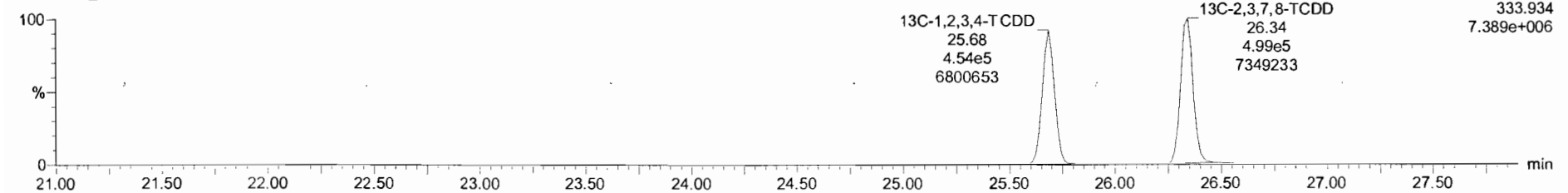


**13C-1,2,3,4-TCDD**

190507K1\_7



190507K1\_7





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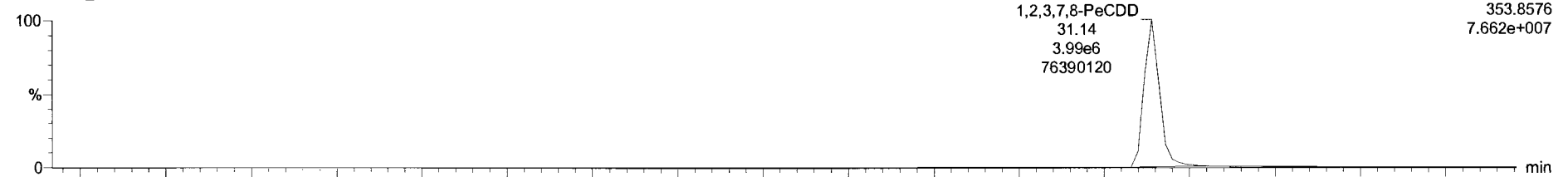
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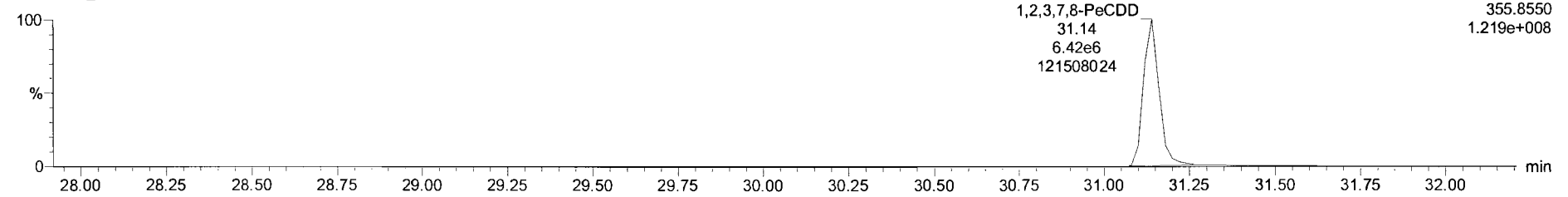
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**1,2,3,7,8-PeCDD**

190507K1\_7

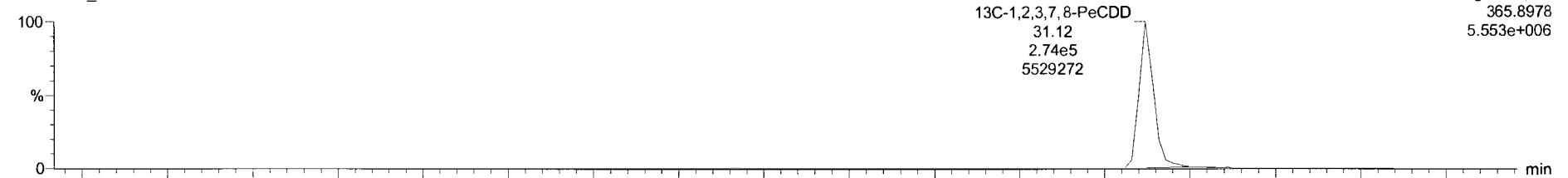


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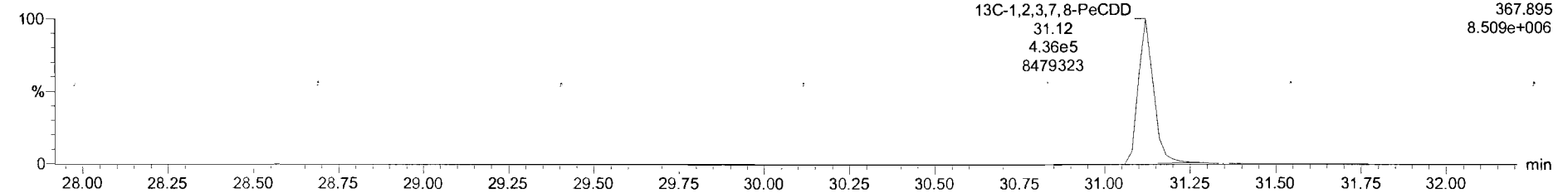


**13C-1,2,3,7,8-PeCDD**

190507K1\_7

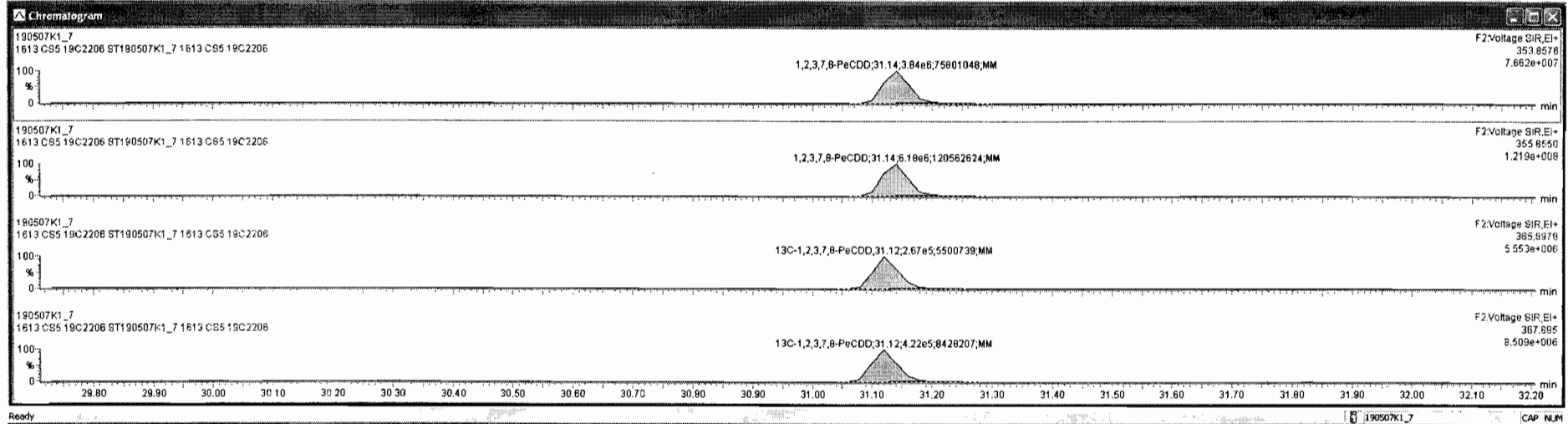


190507K1\_7



190507K1\_7 - ST190507K1\_7\_1613 CS5 19C2206 - 1613 CS5 19C2206

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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	



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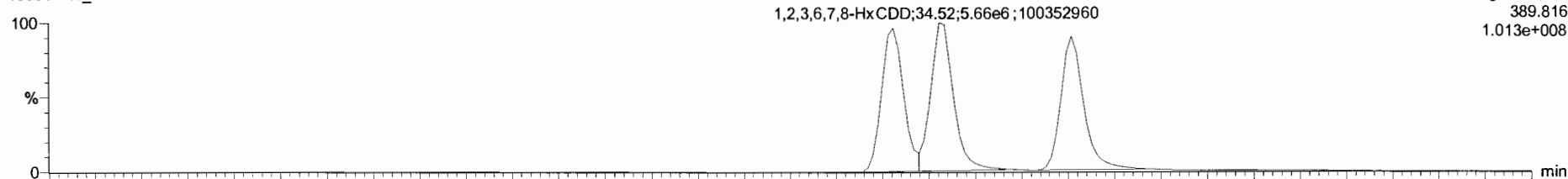
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

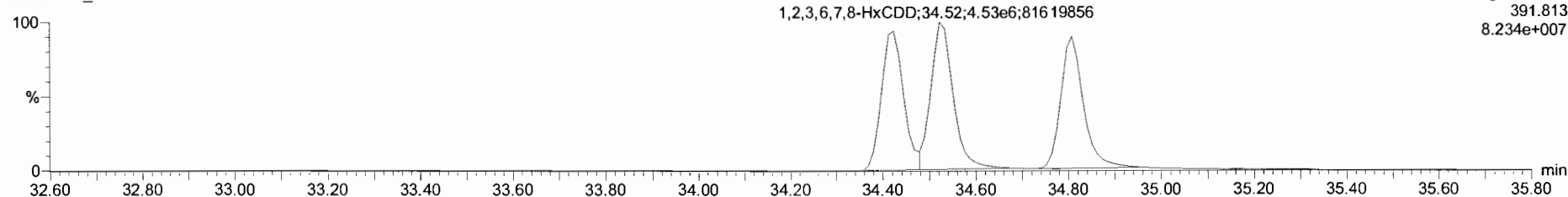
Name: 190507K1\_7, Date: 07-May-2019, Time: 15:27:02, ID: ST190507K1\_7 1613 CS5 19C2206, Description: 1613 CS5 19C2206

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

190507K1\_7

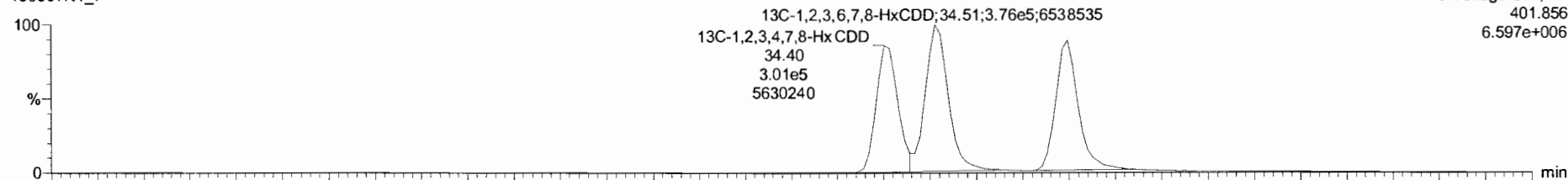


190507K1\_7

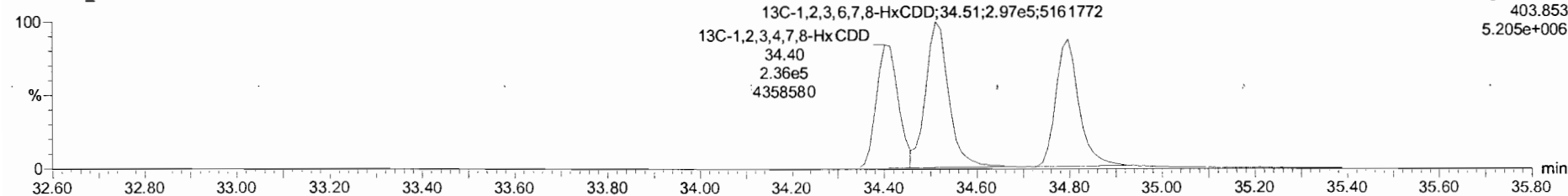


**13C-1,2,3,4,7,8-HxCDD**

190507K1\_7



190507K1\_7

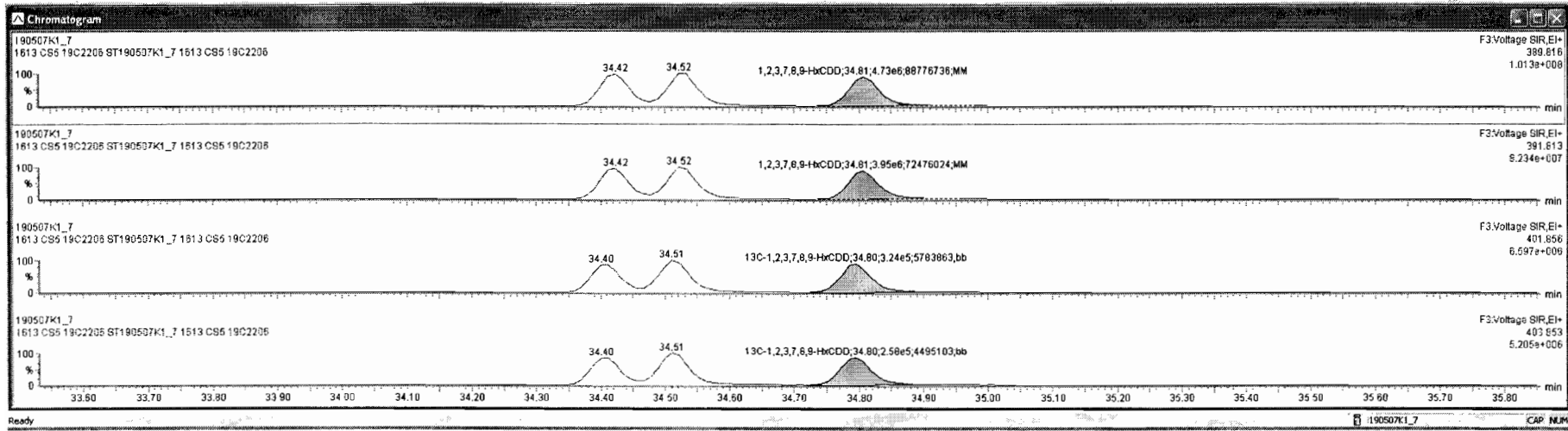


Target: ynx - 190507K1-CRV.qld

File Edit View Display Processing Window Help

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	



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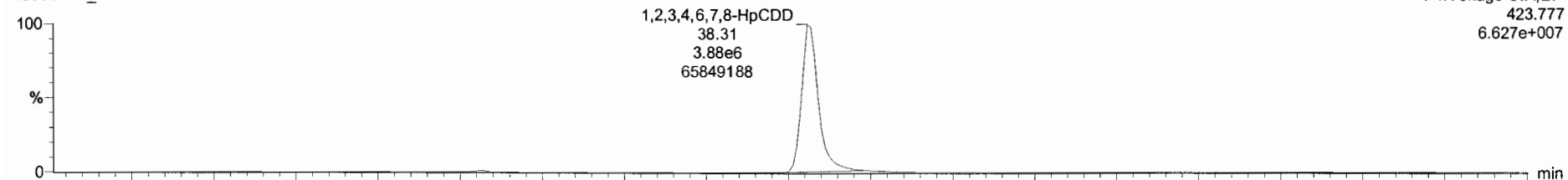
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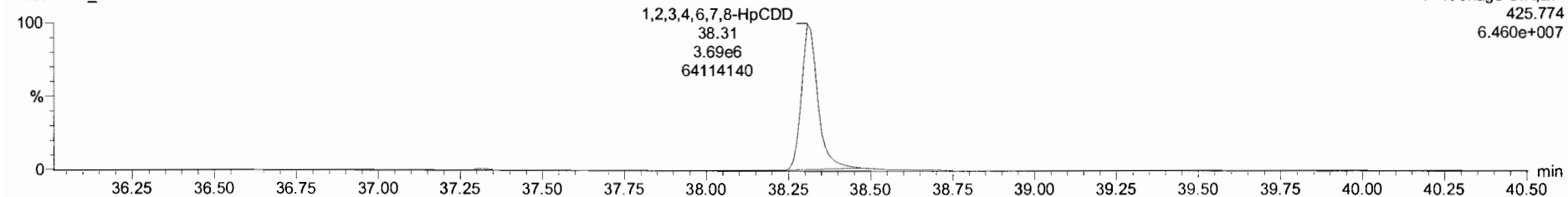
Name: 190507K1\_7, Date: 07-May-2019, Time: 15:27:02, ID: ST190507K1\_7 1613 CS5 19C2206, Description: 1613 CS5 19C2206

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

190507K1\_7

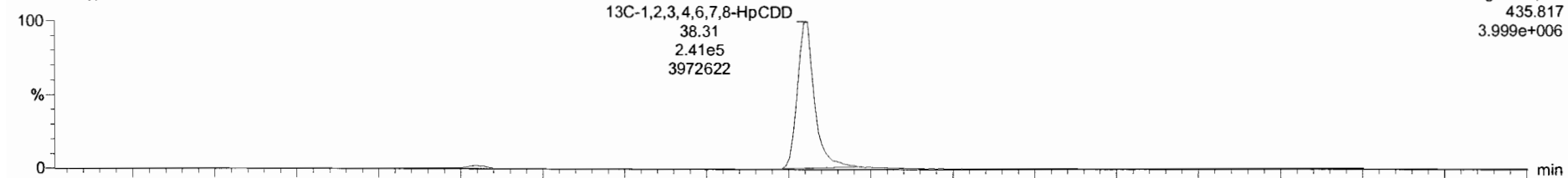


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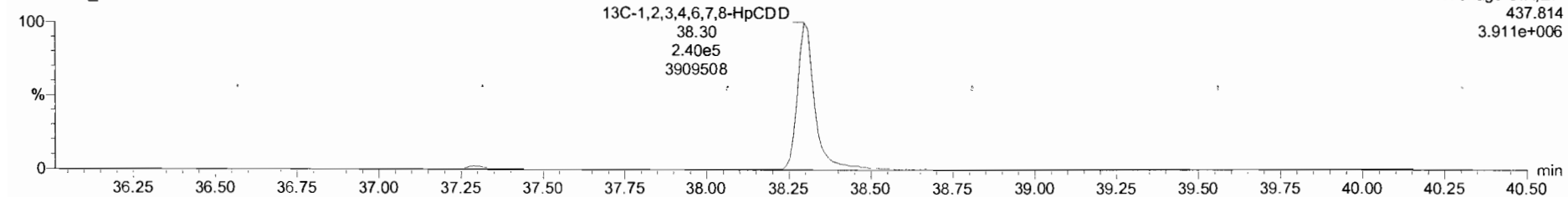


**13C-1,2,3,4,6,7,8-HpCDD**

190507K1\_7



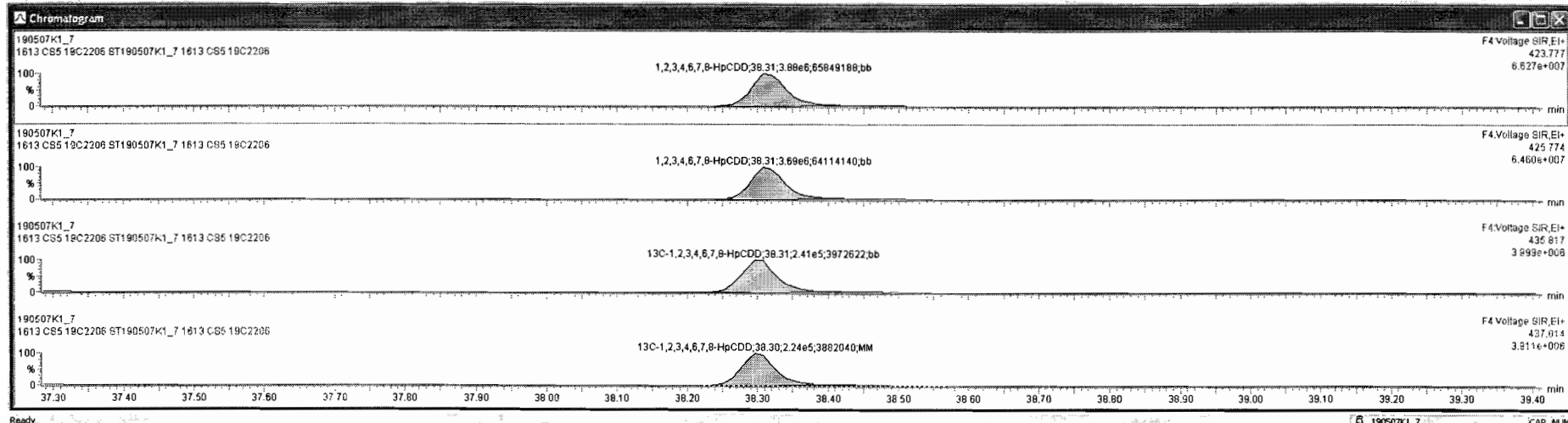
190507K1\_7



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	0.166	
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	0.198	
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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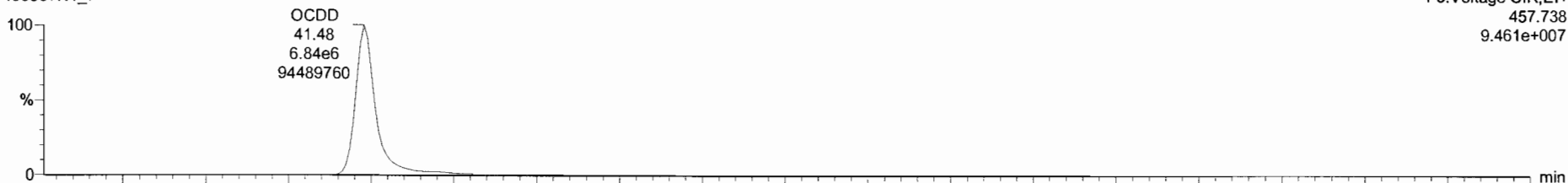
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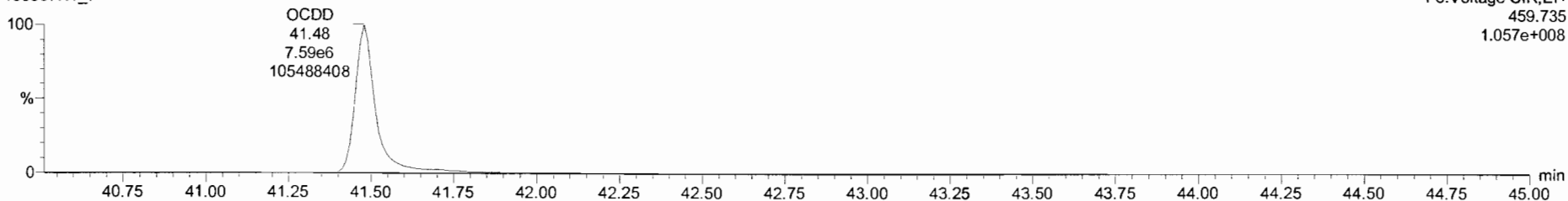
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**OCDD**

190507K1\_7

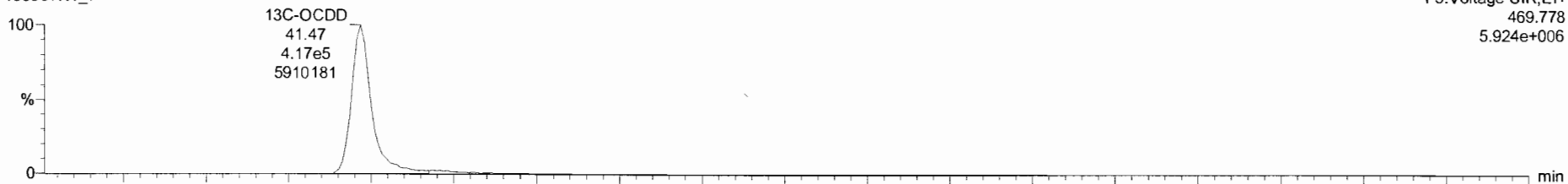


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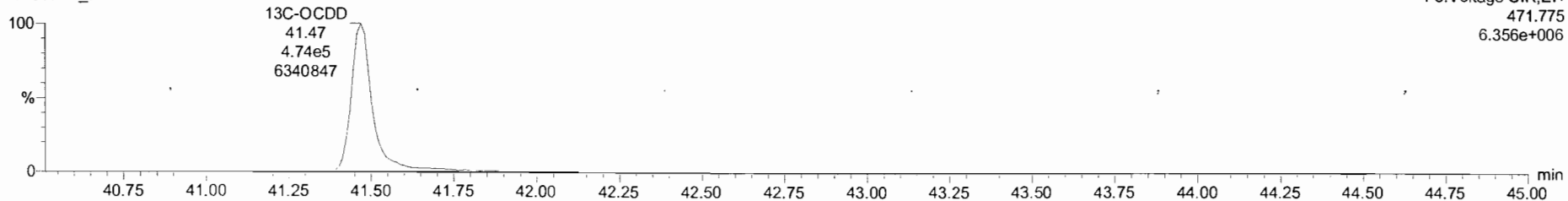


**13C-OCDD**

190507K1\_7

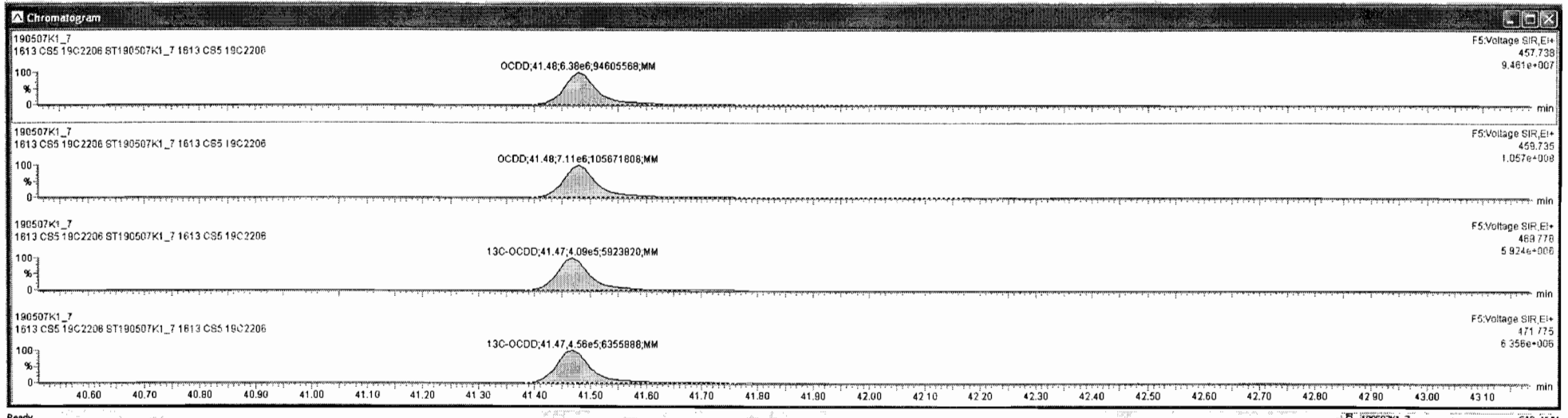
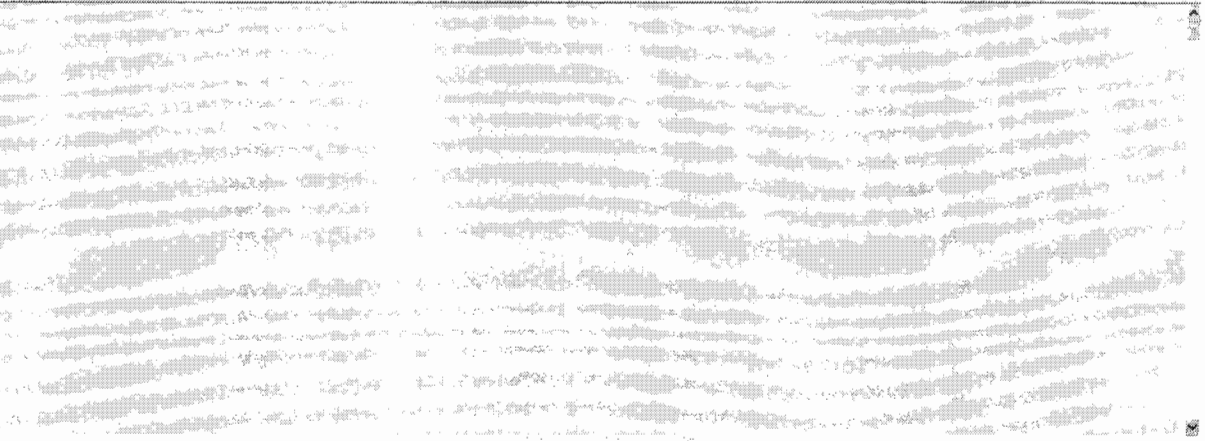


190507K1\_7



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	





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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

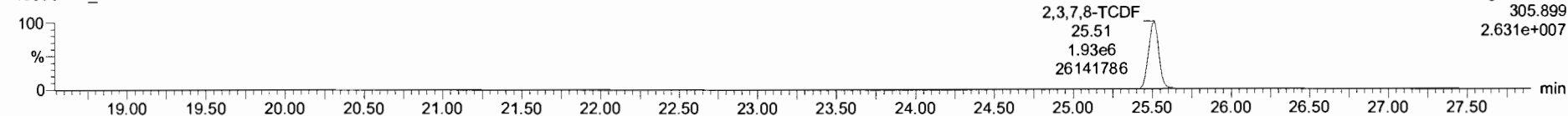
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### 2,3,7,8-TCDF

190507K1\_7

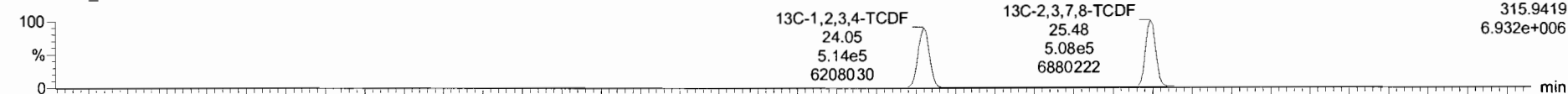


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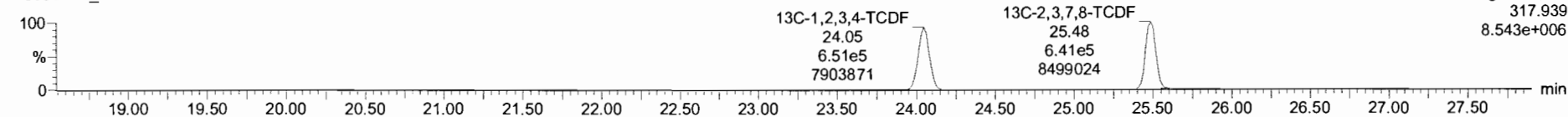


### 13C-2,3,7,8-TCDF

190507K1\_7

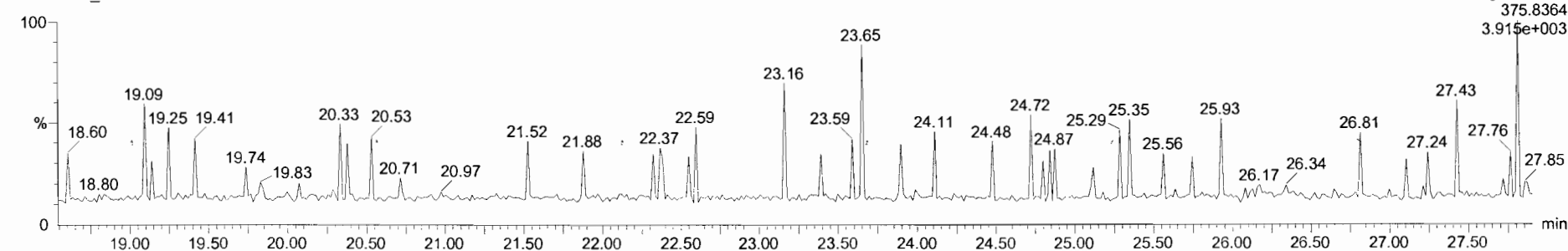


190507K1\_7



### DPE1

190507K1\_7



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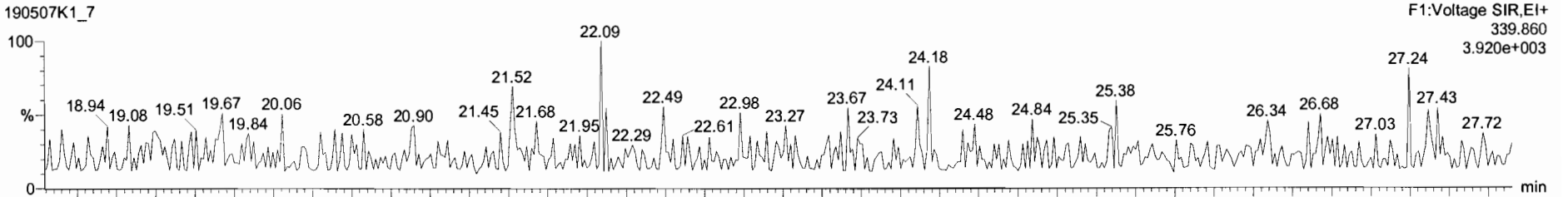
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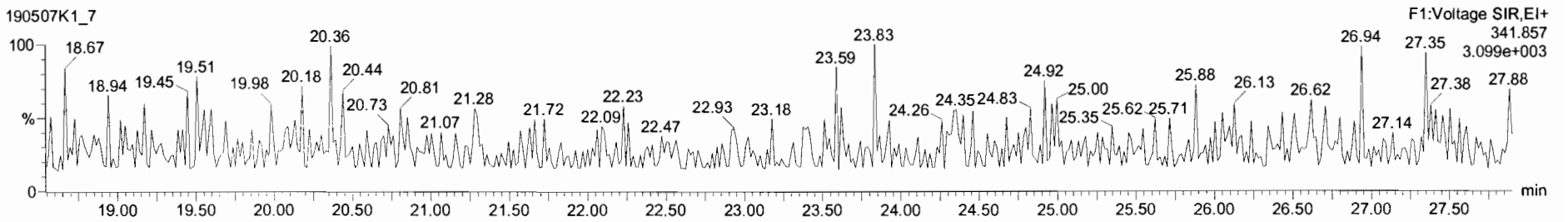
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1st Func. Penta-Furans

190507K1\_7

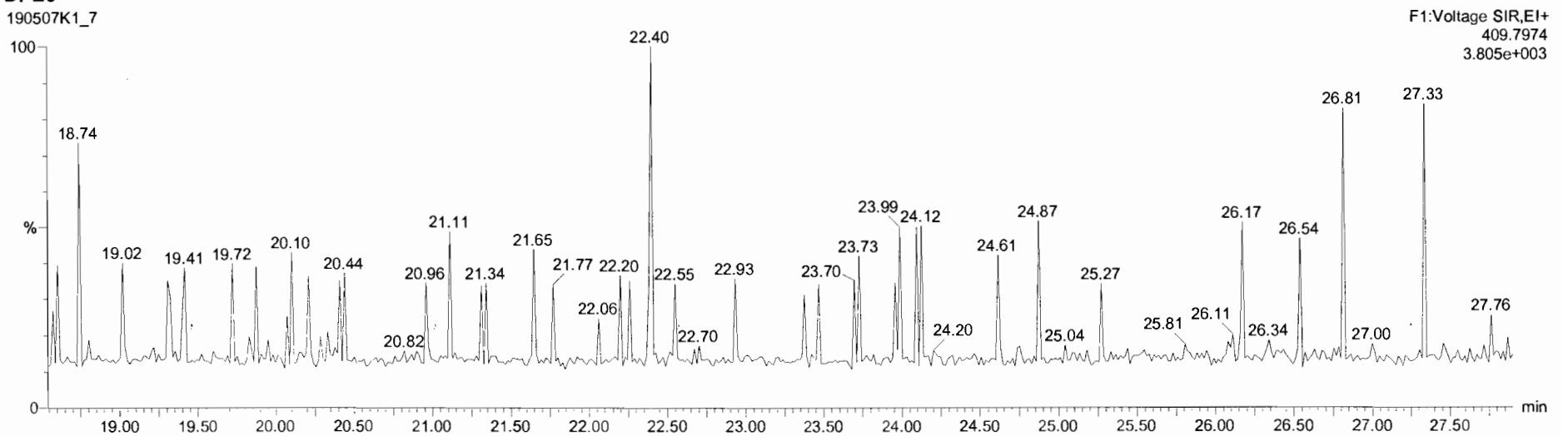


190507K1\_7



DPE6

190507K1\_7



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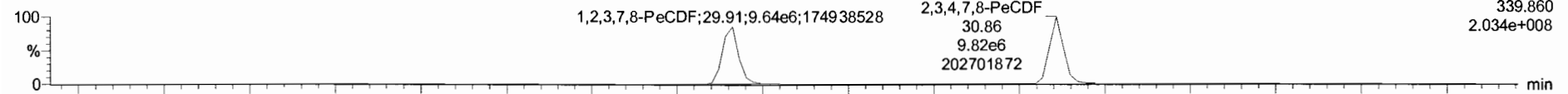
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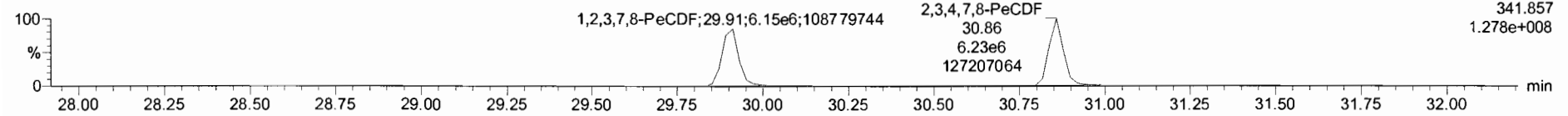
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**1,2,3,7,8-PeCDF**

190507K1\_7

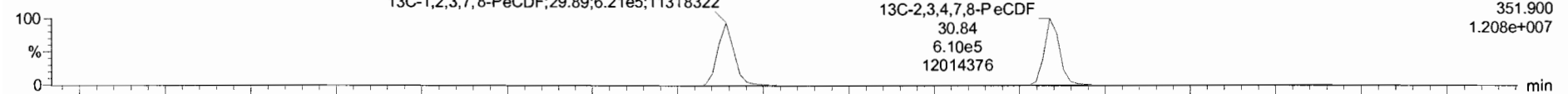


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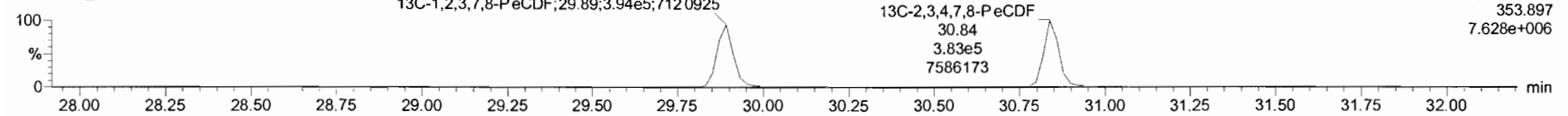


**13C-1,2,3,7,8-PeCDF**

190507K1\_7

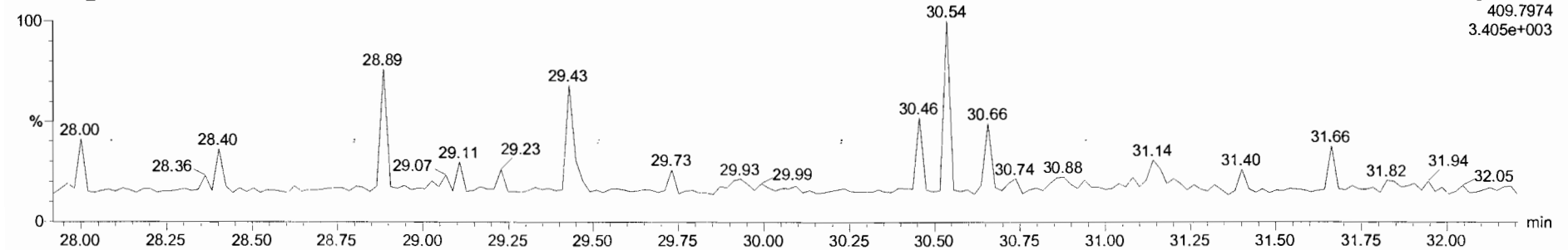


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**DPE2**

190507K1\_7



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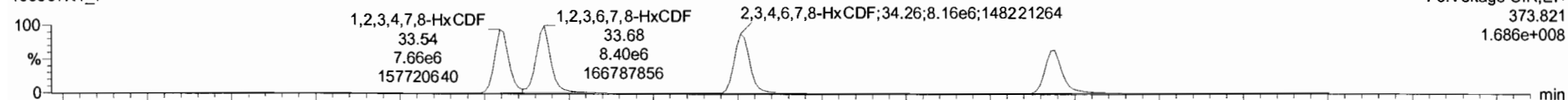
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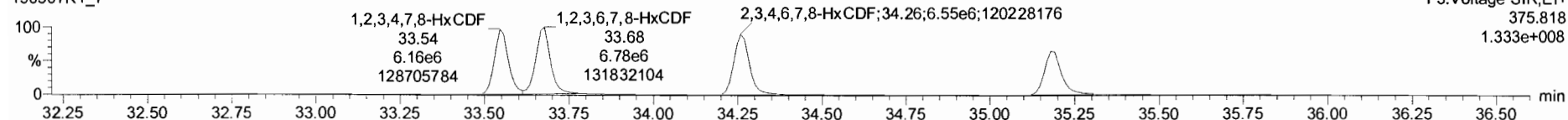
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**1,2,3,4,7,8-HxCDF**

190507K1\_7

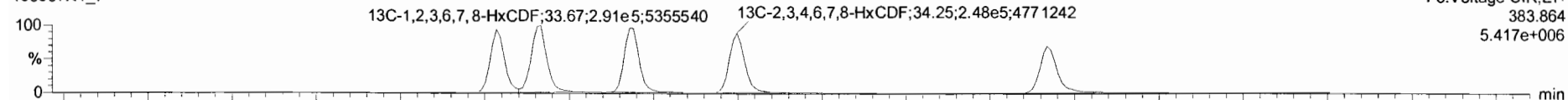


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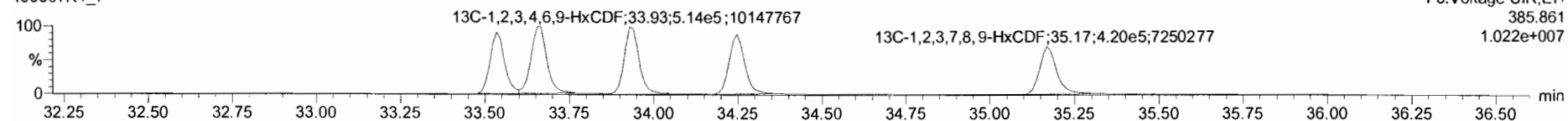


**13C-1,2,3,4,7,8-HxCDF**

190507K1\_7

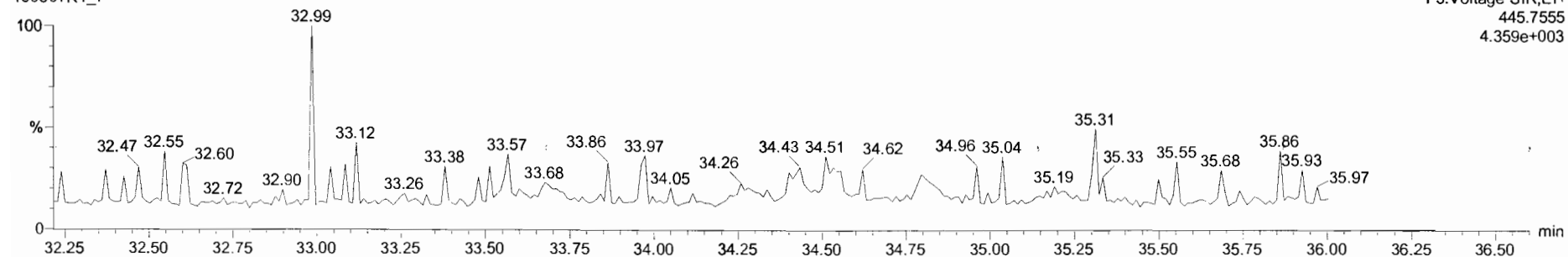


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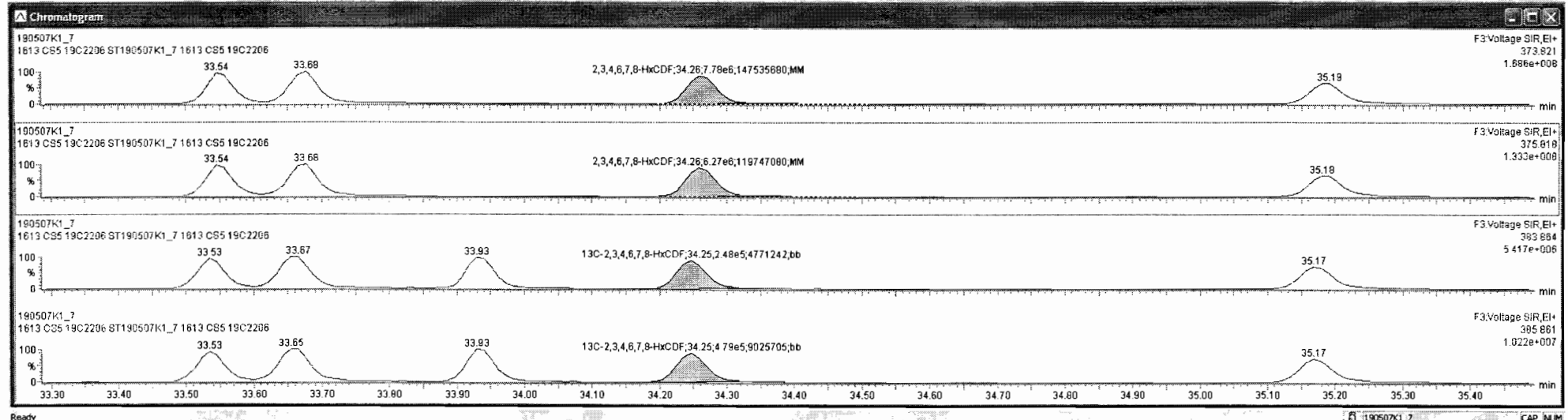
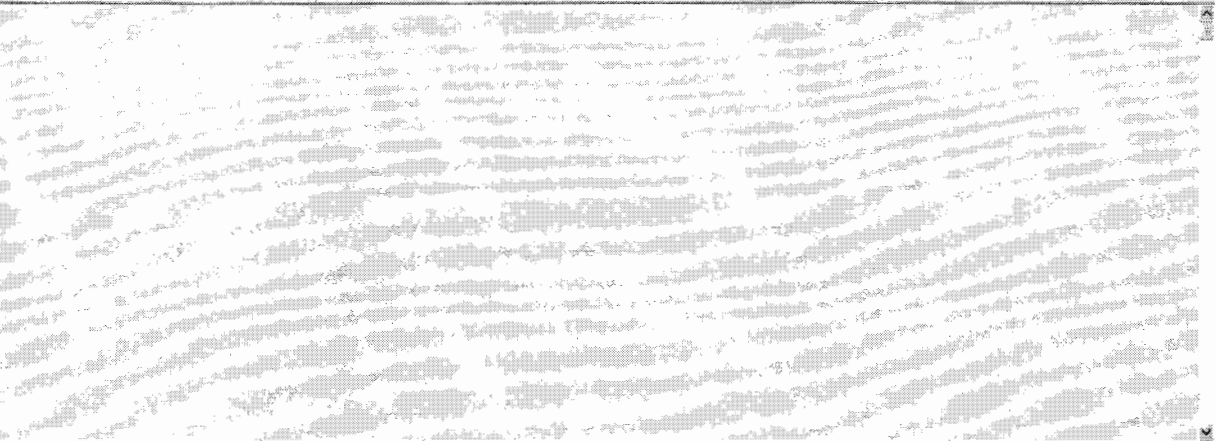


**DPE3**

190507K1\_7

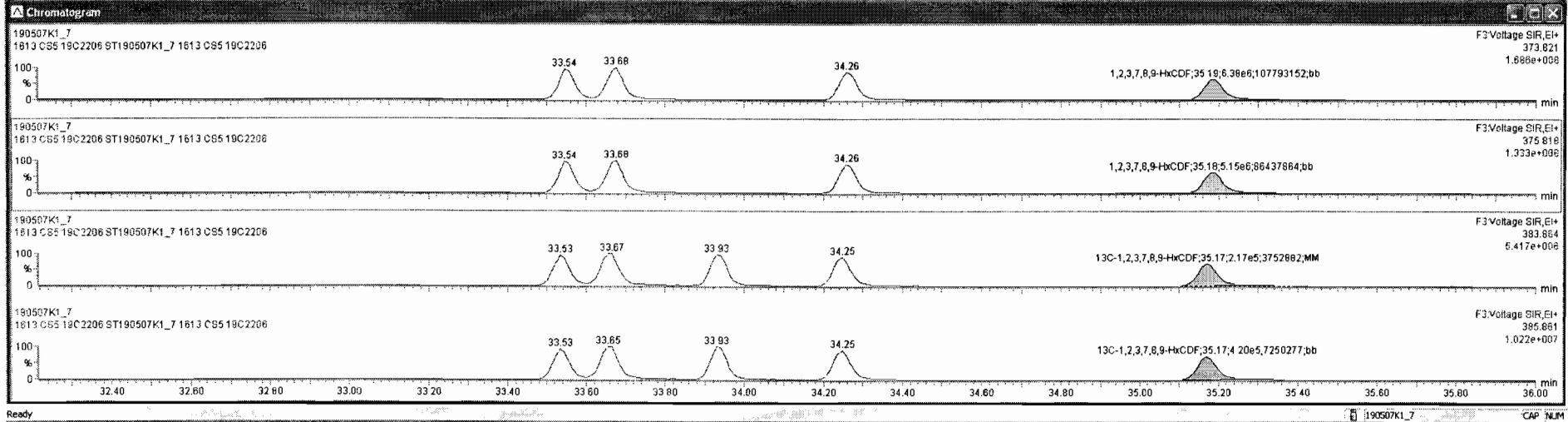
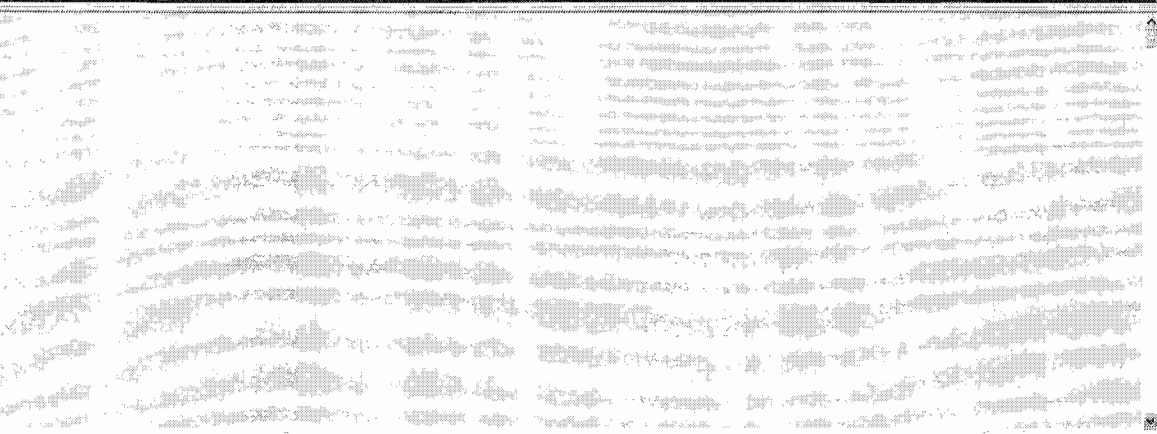


Name	Resp	RA	nAy	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.60e6	0.78	NO	0.92	1.000	26.36	1.001	316	105	0.0742	316
2 1,2,3,7,8-PeCDD	1.00e7	0.62	NO	0.90	1.000	31.14	1.001	1610	107	0.0868	1610
3 1,2,3,4,7,8-HxCDD	9.53e6	1.25	NO	1.07	1.000	34.42	1.001	1660	111	0.470	1660
4 1,2,3,6,7,8-HxCDD	1.02e7	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	NY	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	



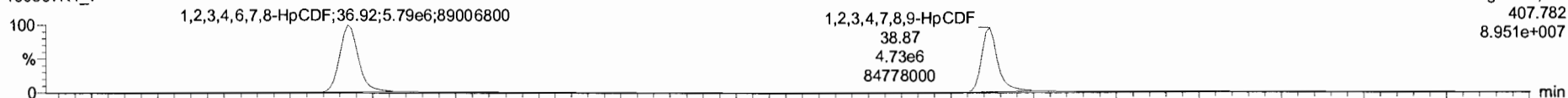
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_7, Date: 07-May-2019, Time: 15:27:02, ID: ST190507K1\_7 1613 CS5 19C2206, Description: 1613 CS5 19C2206

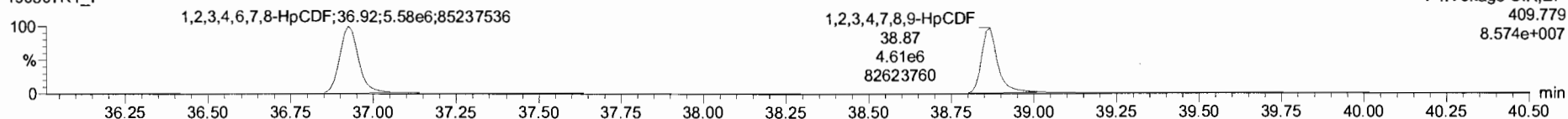
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190507K1\_7



F4:Voltage SIR,EI+  
407.782  
8.951e+007

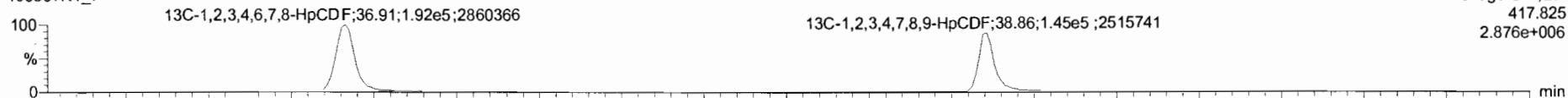
190507K1\_7



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8.574e+007

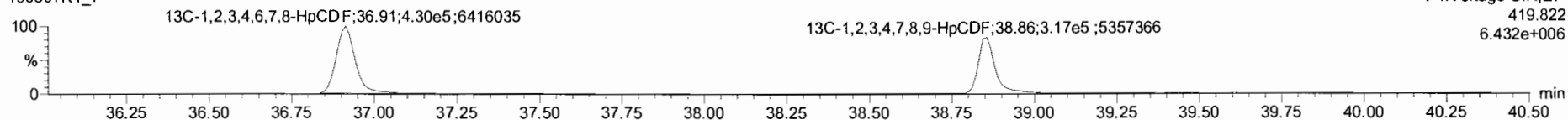
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190507K1\_7



F4:Voltage SIR,EI+  
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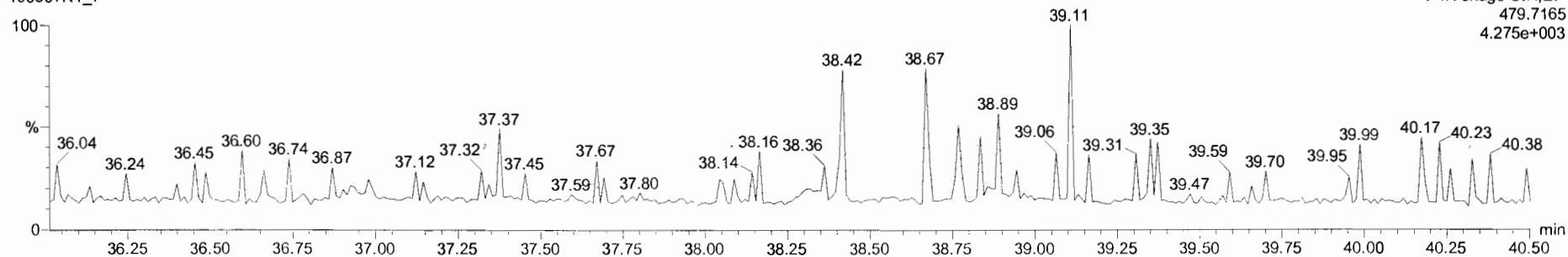
190507K1\_7



F4:Voltage SIR,EI+  
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### DPE4

190507K1\_7



F4:Voltage SIR,EI+  
479.7165  
4.275e+003

Dataset: Untitled

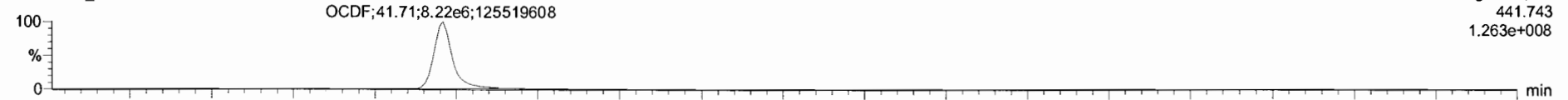
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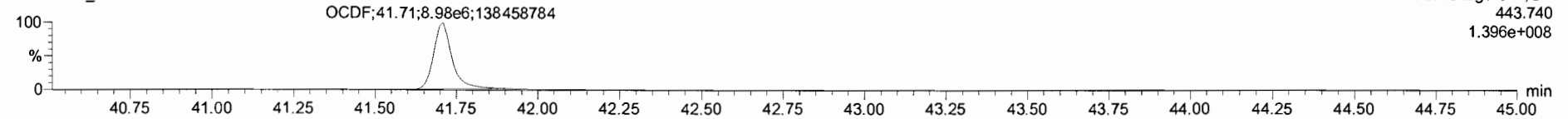
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**OCDF**

190507K1\_7

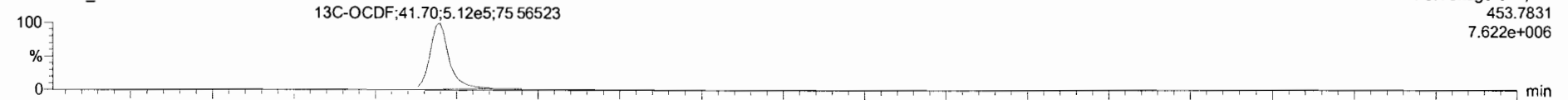


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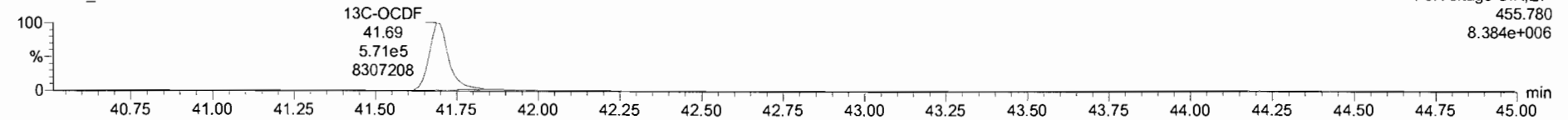


**13C-OCDF**

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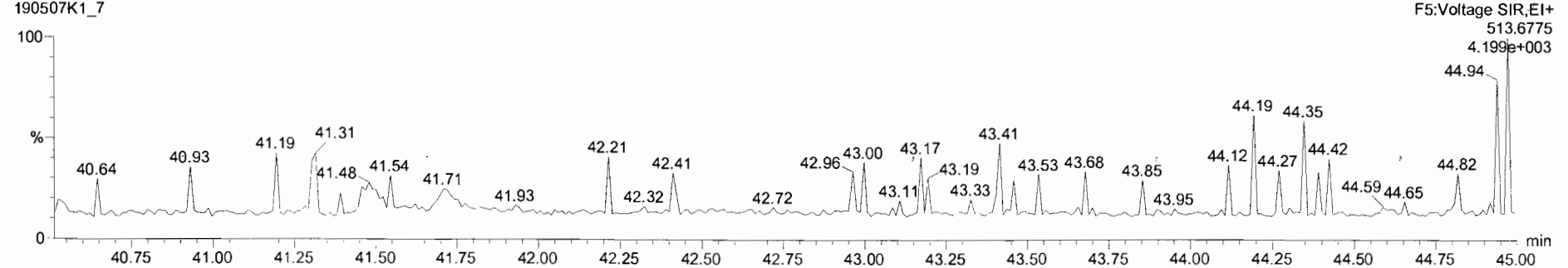


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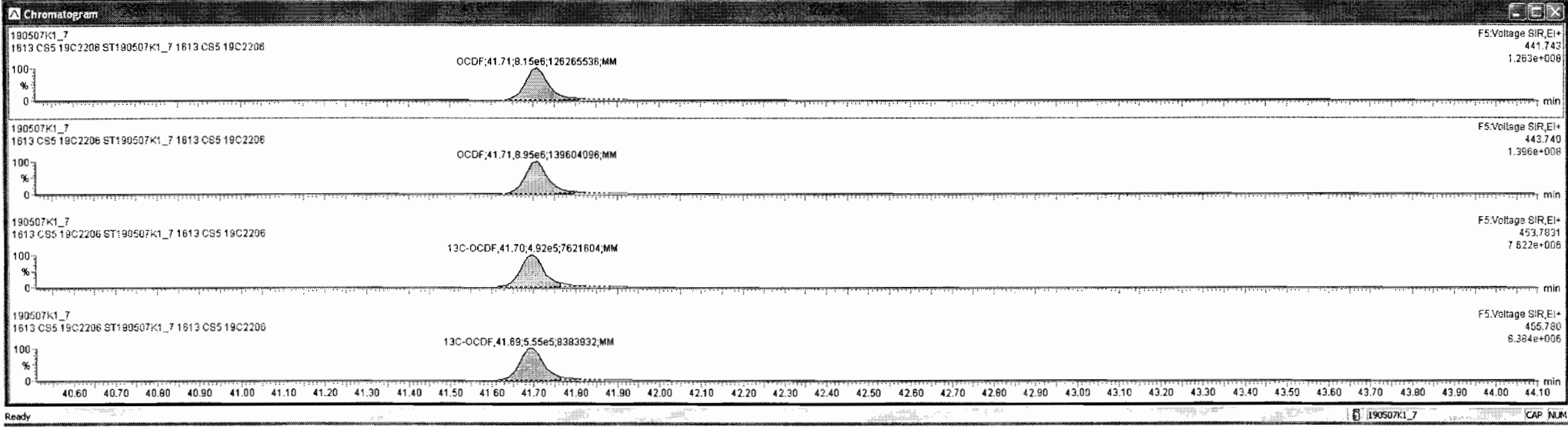
**DPE5**

190507K1\_7





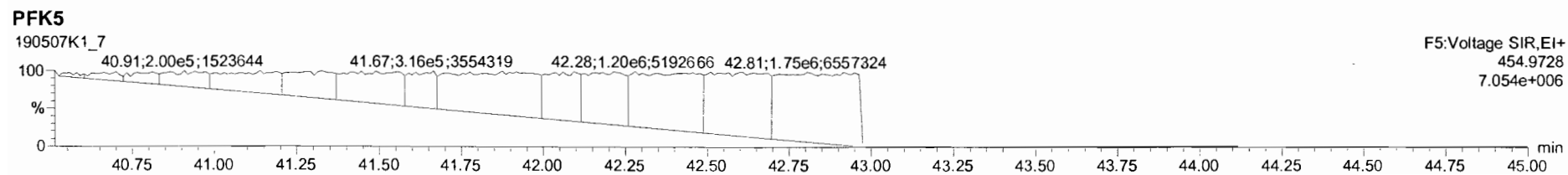
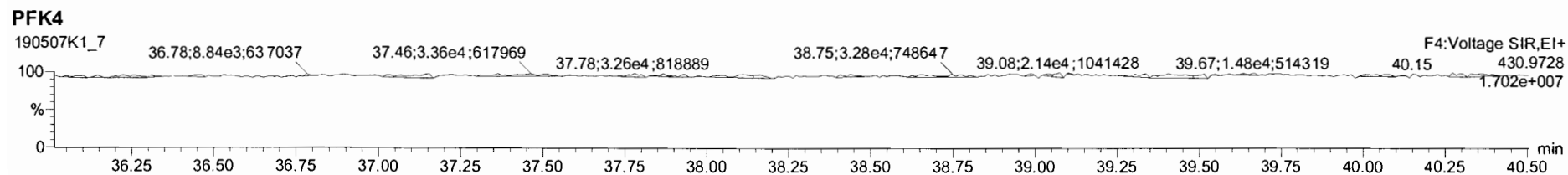
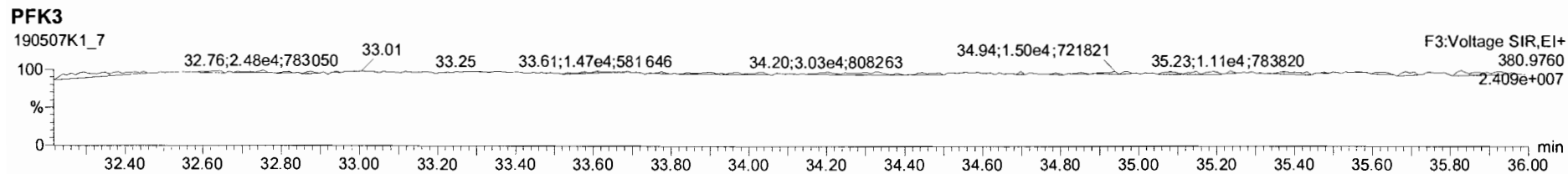
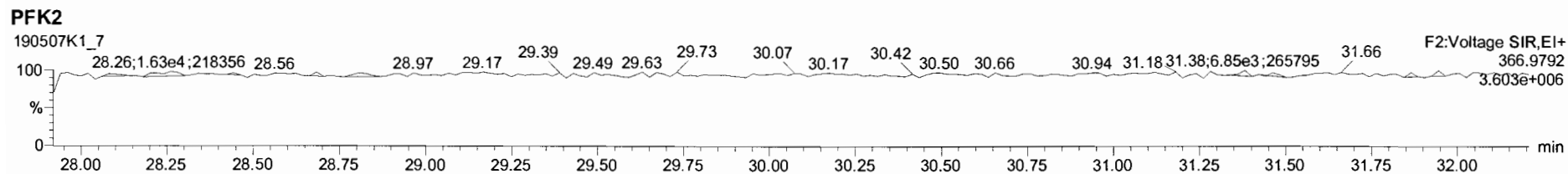
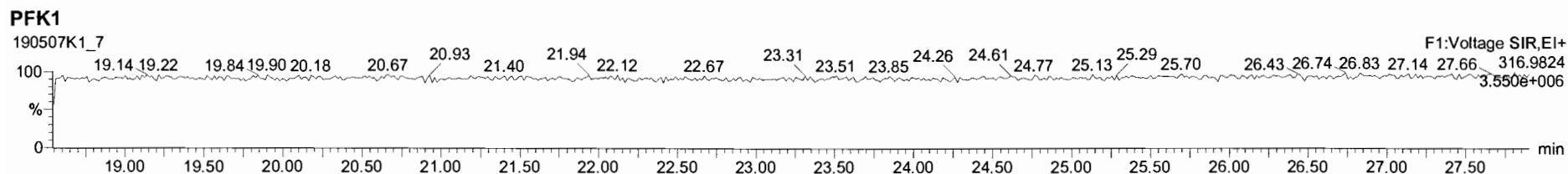
Name	Resp	RA	nly	RFF	wMVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.60e6	0.78	NO	0.92	1.000	26.36	1.001	316	105	0.0742	316
2 1,2,3,7,8-PeCDD	1.00e7	0.82	NO	0.90	1.000	31.14	1.001	1610	107	0.0888	1610
3 1,2,3,4,7,8-HxCDD	9.53e6	1.25	NO	1.07	1.000	34.42	1.001	1660	111	0.470	1660
4 1,2,3,6,7,8-HxCDD	1.02e7	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	



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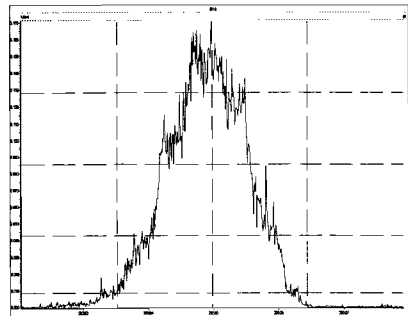
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_7, Date: 07-May-2019, Time: 15:27:02, ID: ST190507K1\_7 1613 CS5 19C2206, Description: 1613 CS5 19C2206

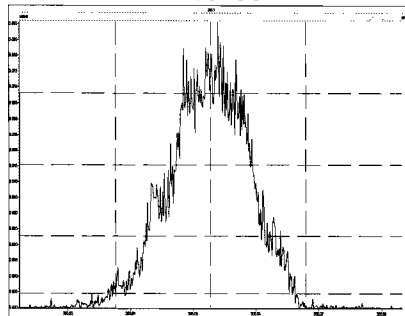


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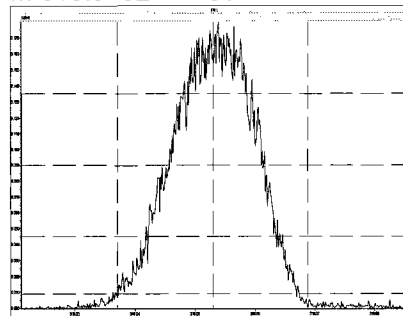
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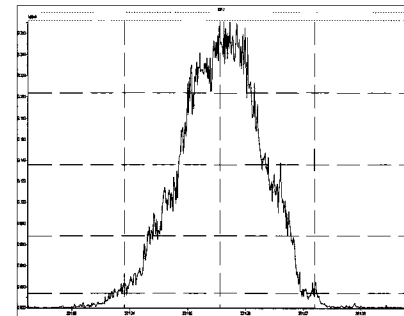
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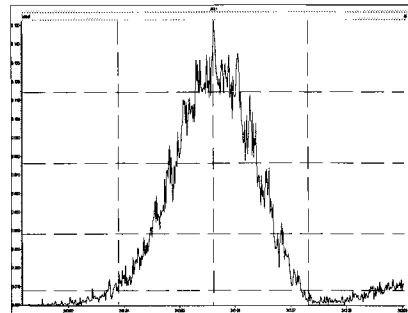
M 318.9792 R 10616



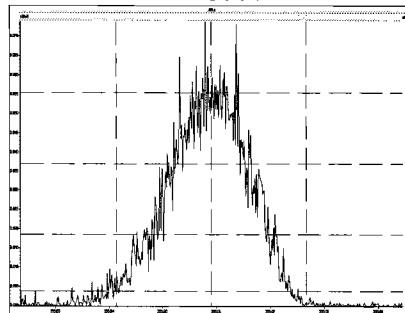
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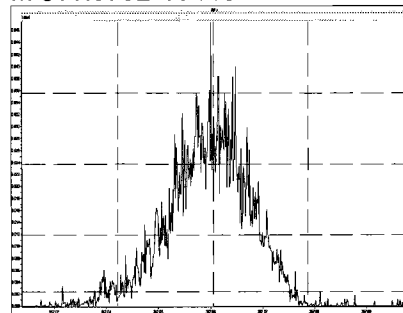
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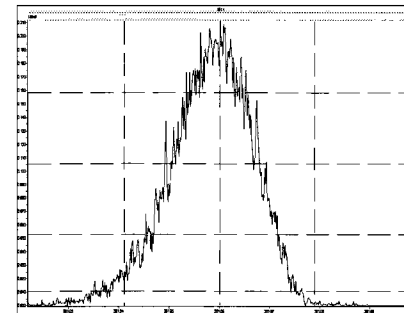
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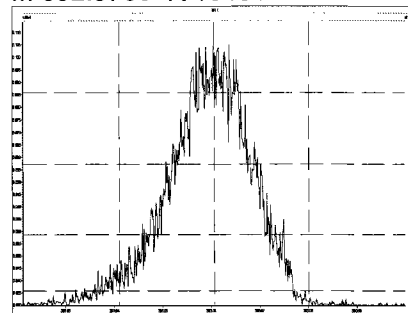
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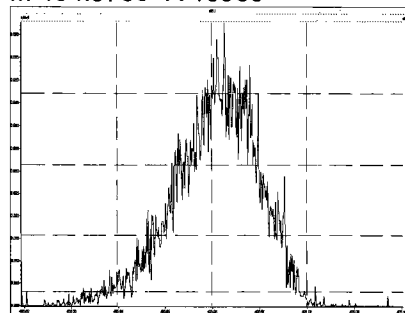
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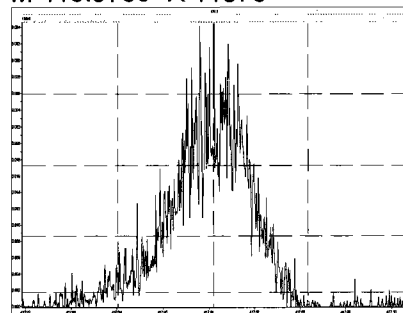
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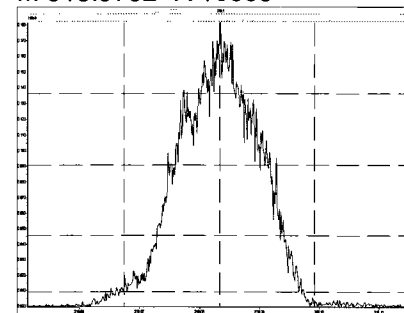
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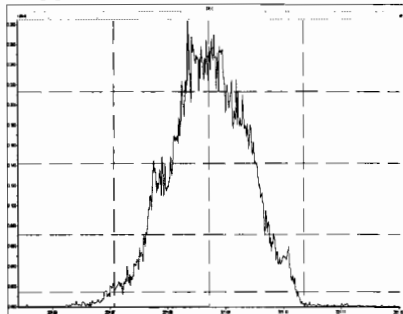


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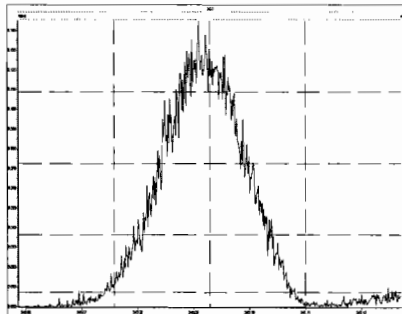


Printed: Tuesday, May 07, 2019 17:12:33 Pacific Daylight Time

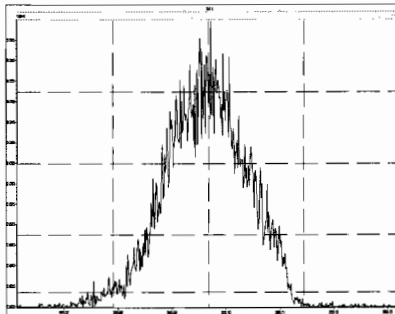
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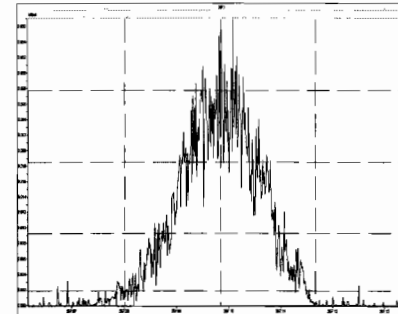
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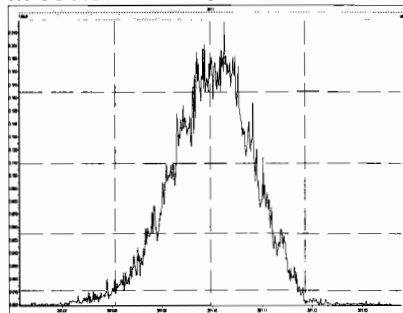
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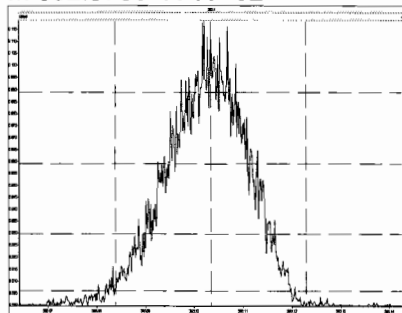
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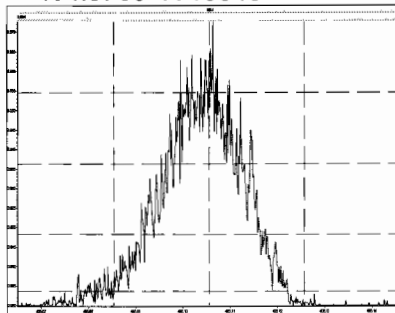
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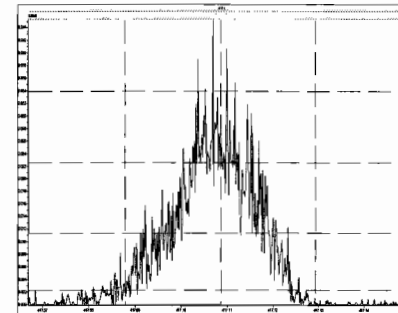
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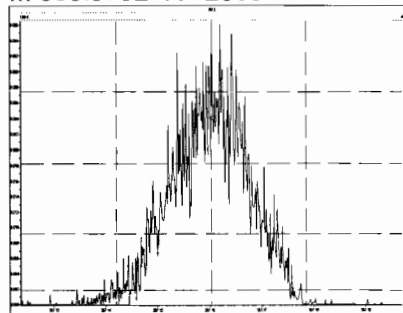
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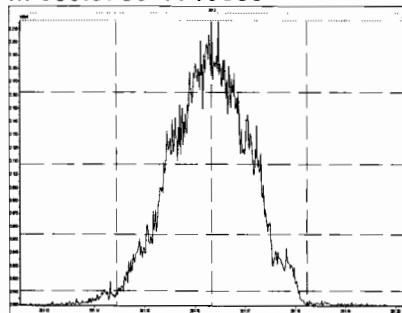
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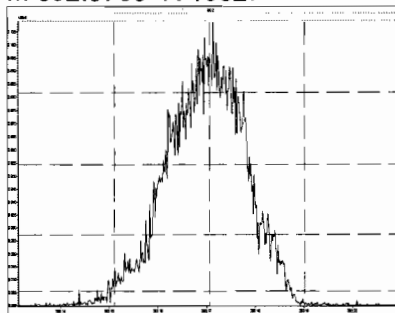
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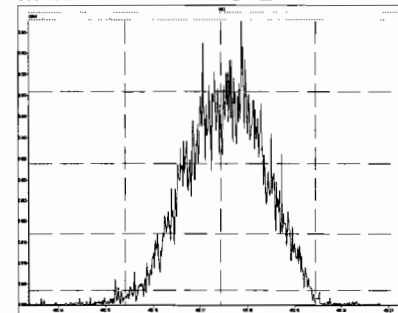
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M 392.9760 R 10827

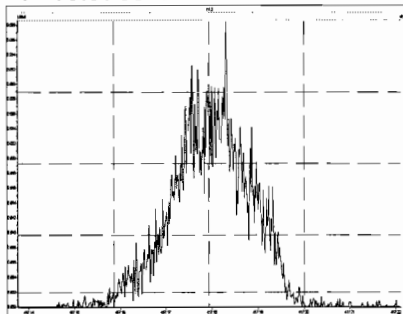


M 404.9760 R 11962

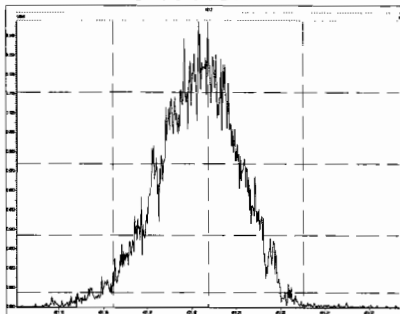


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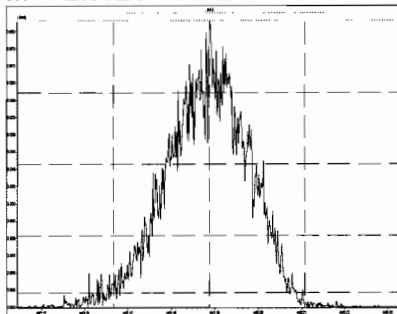
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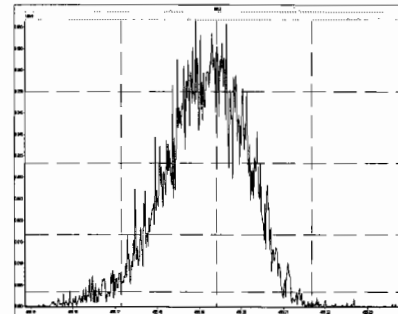
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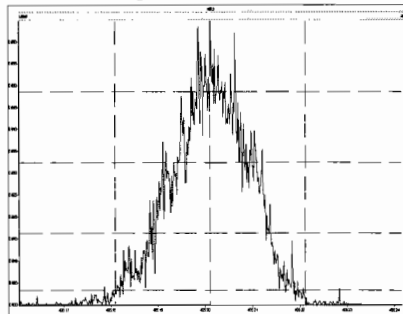
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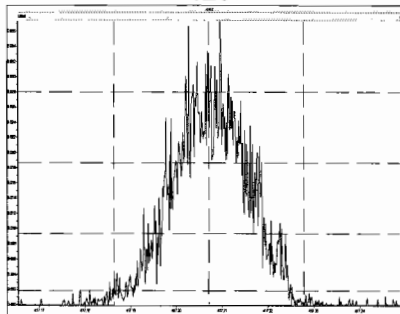
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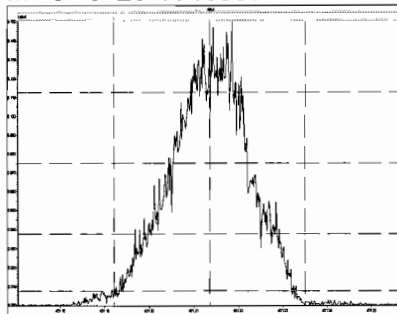
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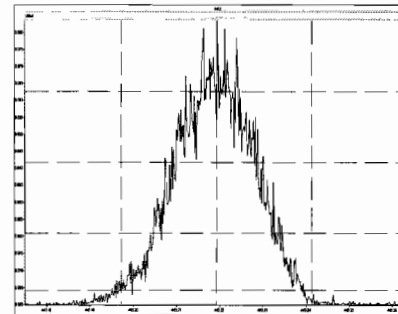
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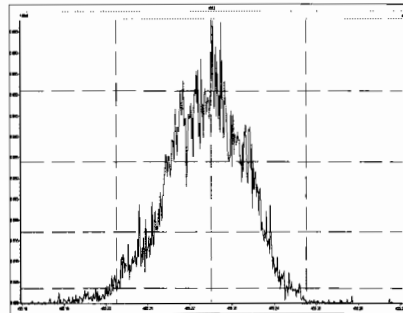
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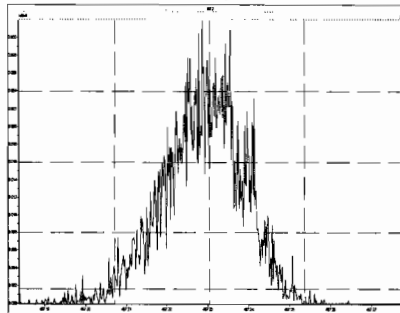
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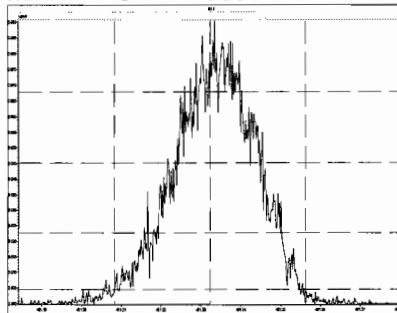
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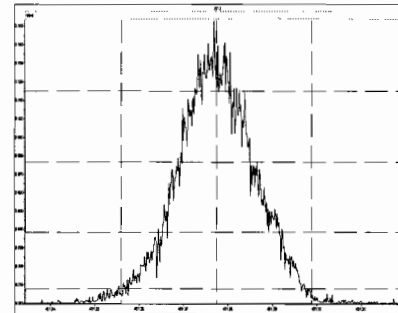
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M 480.9696 R 10695

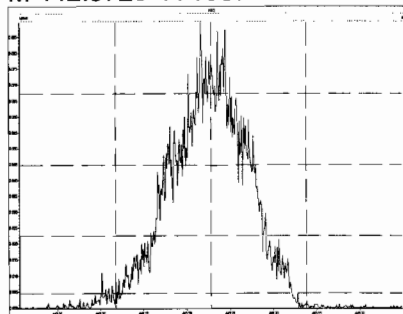


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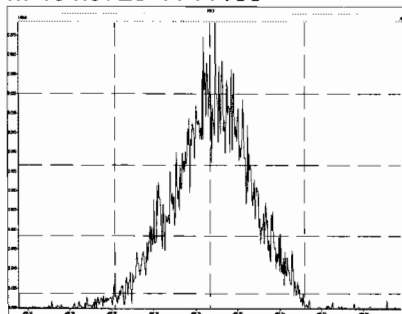


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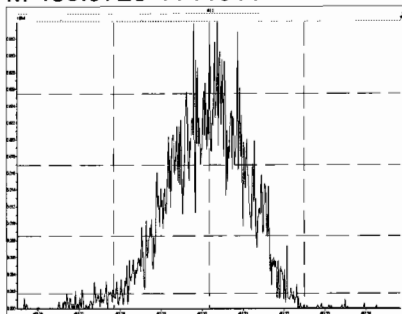
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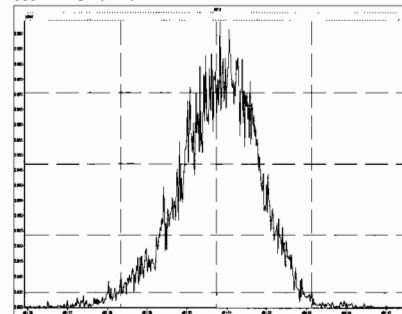
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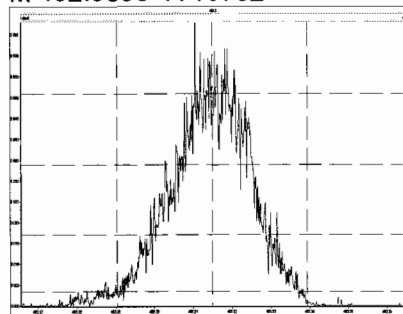
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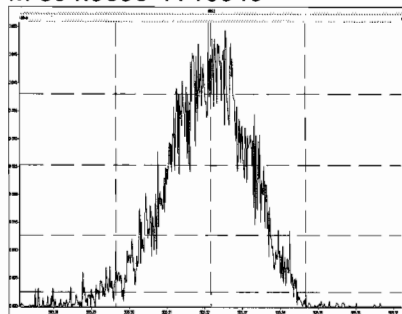
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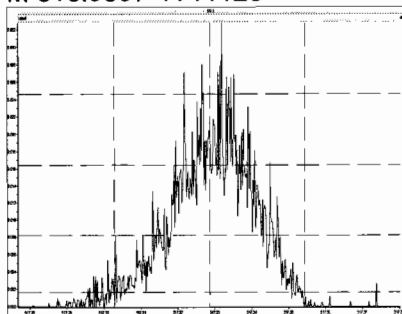
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M 504.9696 R 10949



M 516.9697 R 11126



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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	

*50-150%*  
↓

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-8.qld

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	



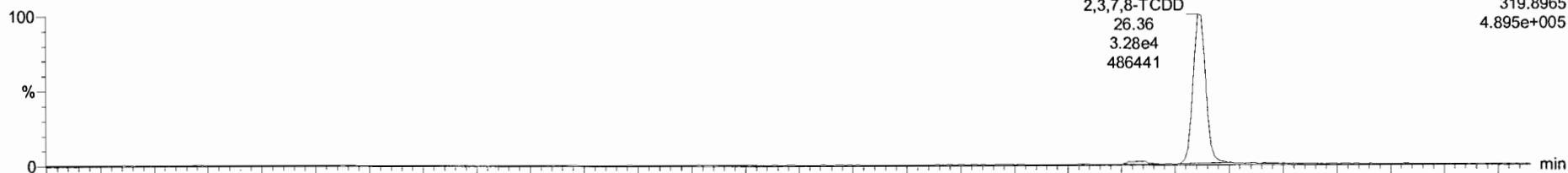
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time  
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

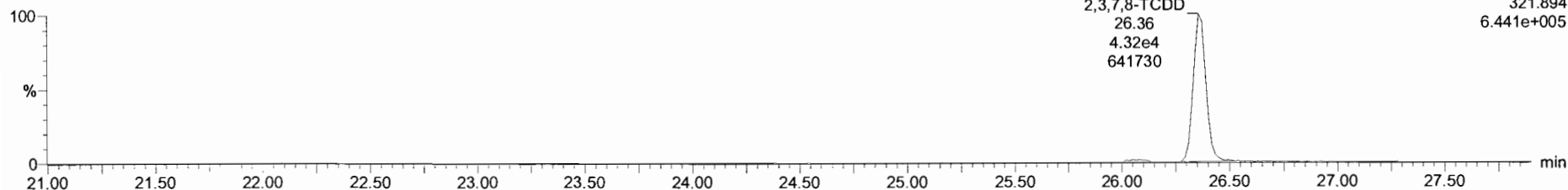
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**2,3,7,8-TCDD**

190507K1\_8



190507K1\_8

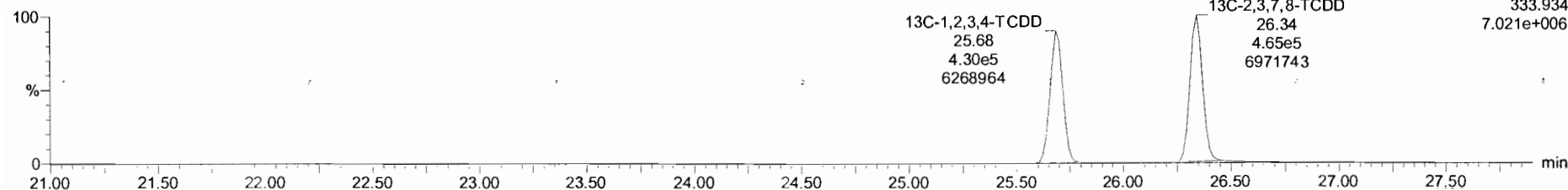


**13C-2,3,7,8-TCDD**

190507K1\_8



190507K1\_8



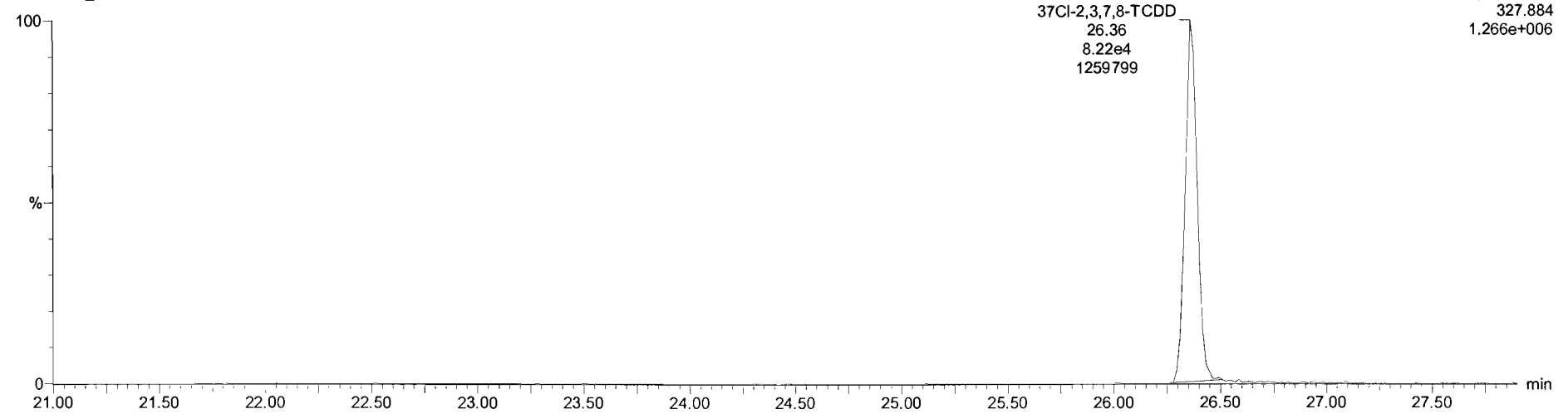
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1\_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

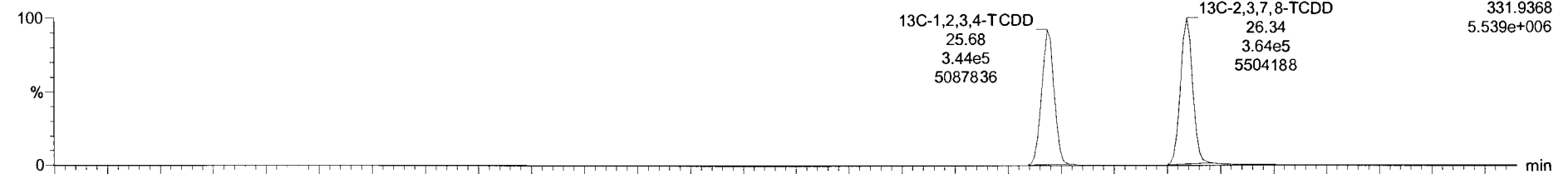
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190507K1\_8

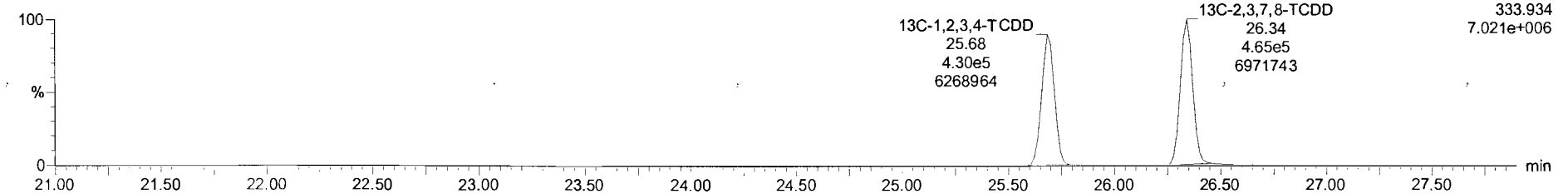


**13C-1,2,3,4-TCDD**

190507K1\_8



190507K1\_8



Dataset: Untitled

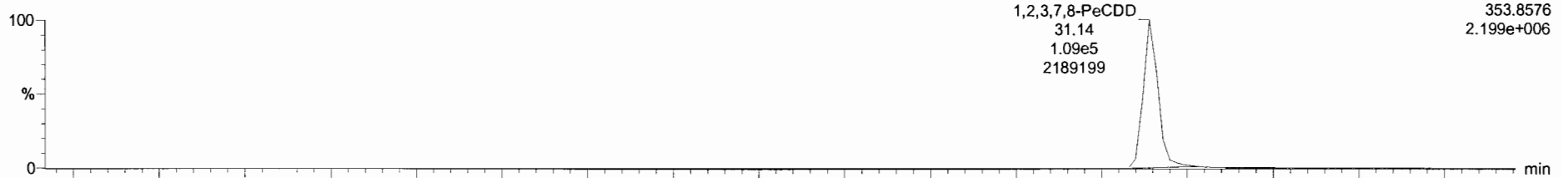
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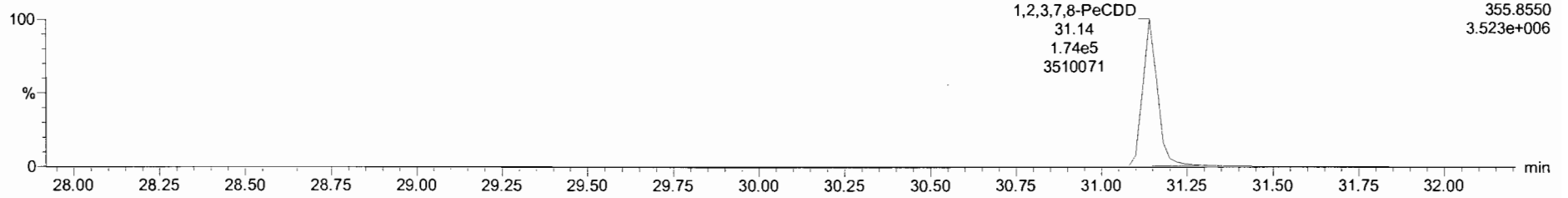
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**1,2,3,7,8-PeCDD**

190507K1\_8

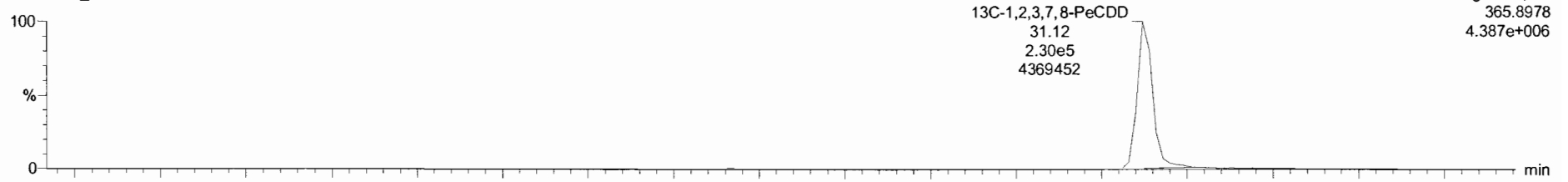


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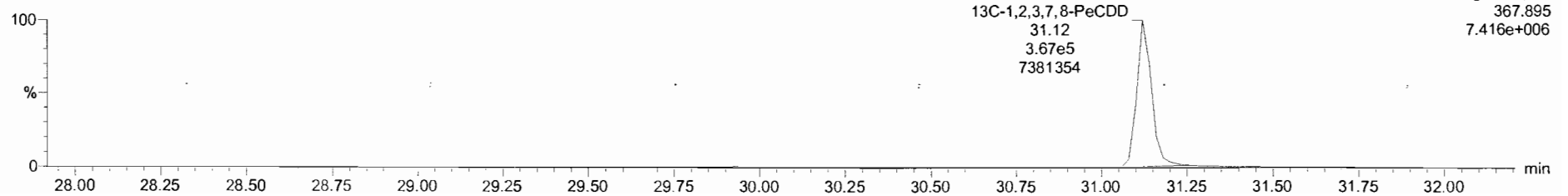


**13C-1,2,3,7,8-PeCDD**

190507K1\_8



190507K1\_8



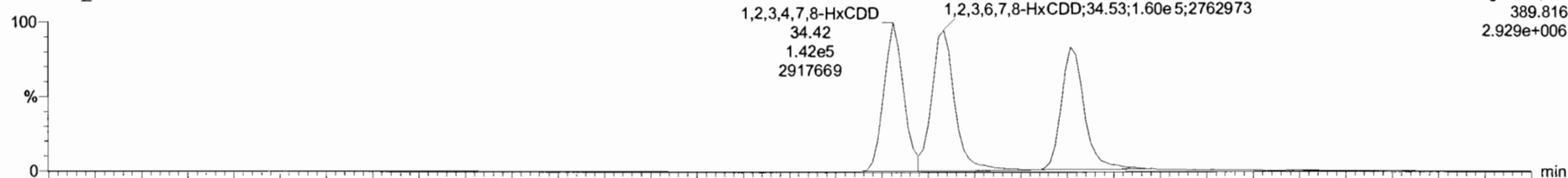
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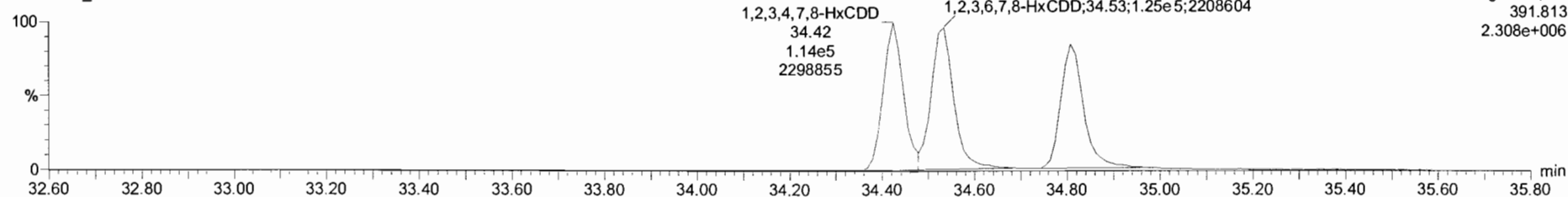
Name: 190507K1\_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1\_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

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

190507K1\_8

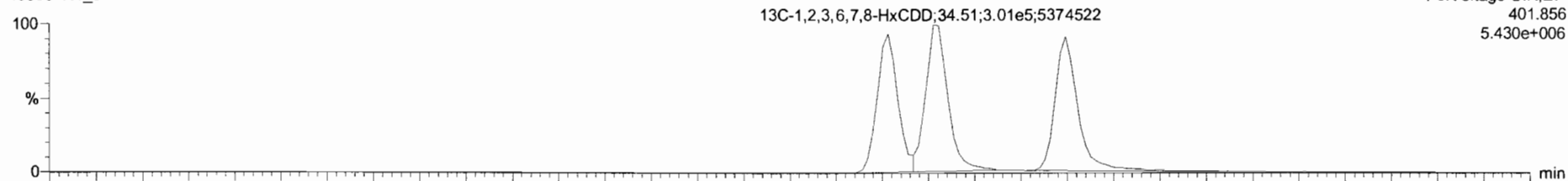


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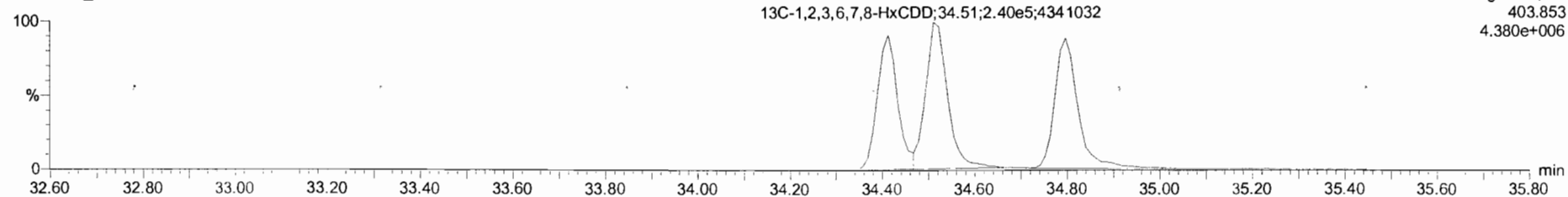


**13C-1,2,3,4,7,8-HxCDD**

190507K1\_8



190507K1\_8



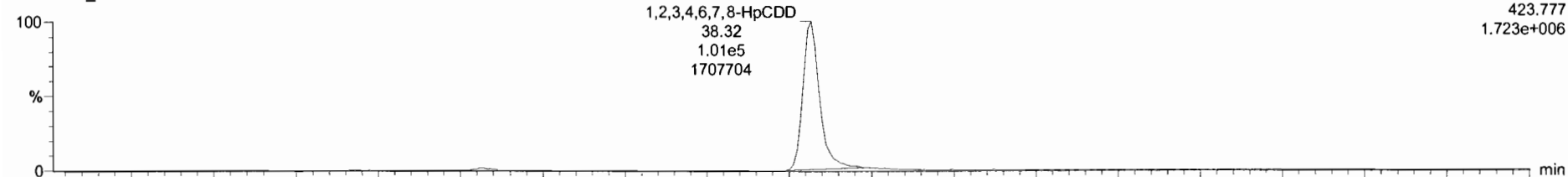
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

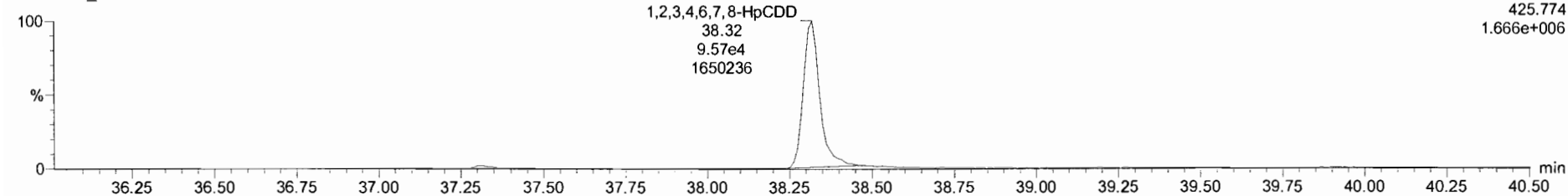
Name: 190507K1\_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1\_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

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

190507K1\_8

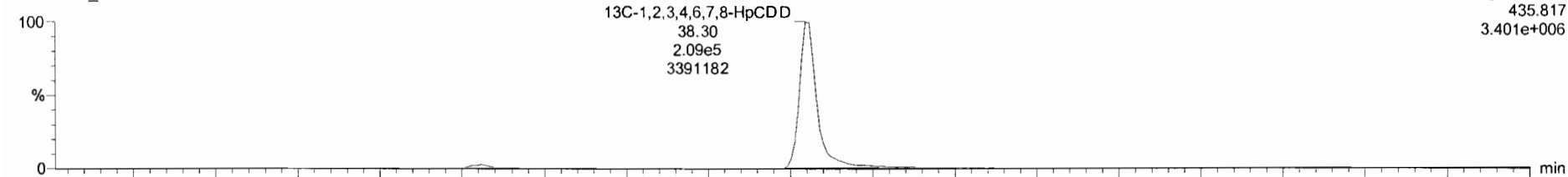


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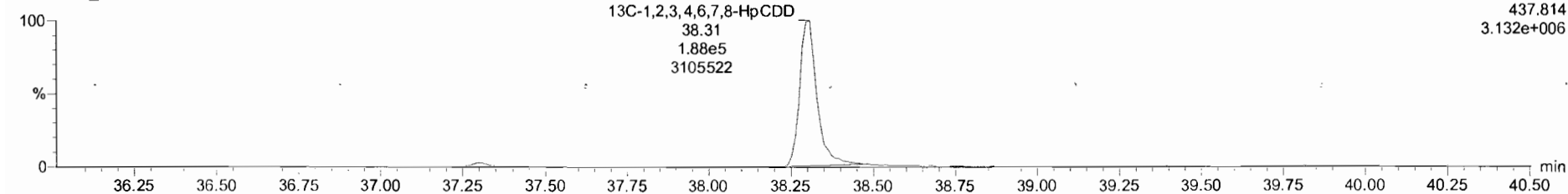


**13C-1,2,3,4,6,7,8-HpCDD**

190507K1\_8



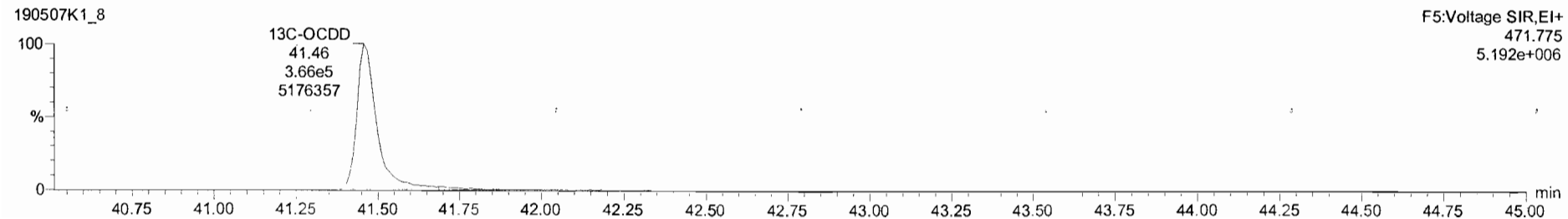
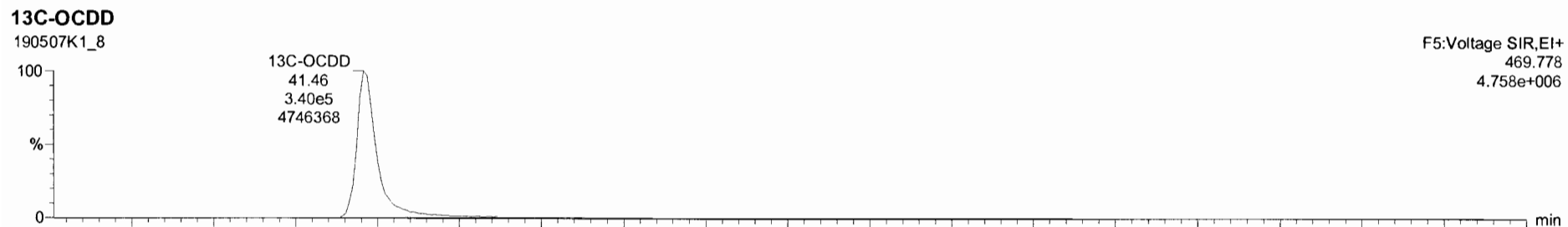
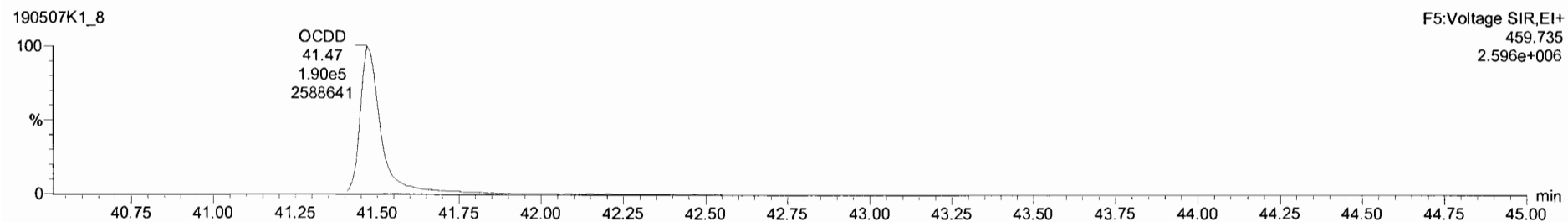
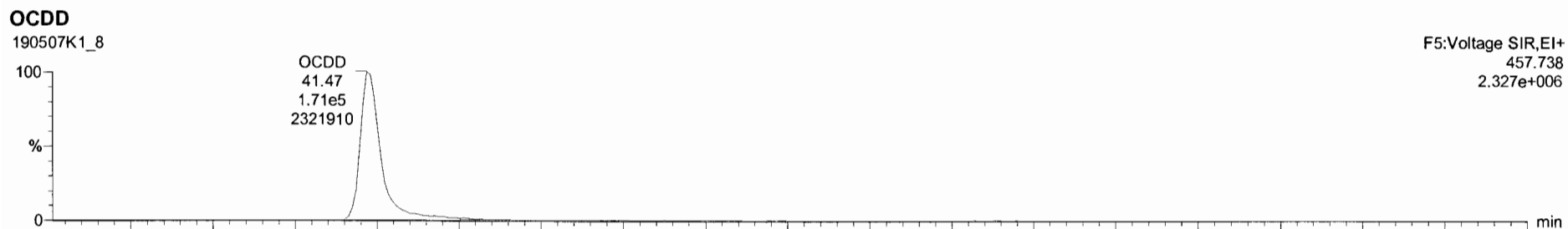
190507K1\_8



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



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

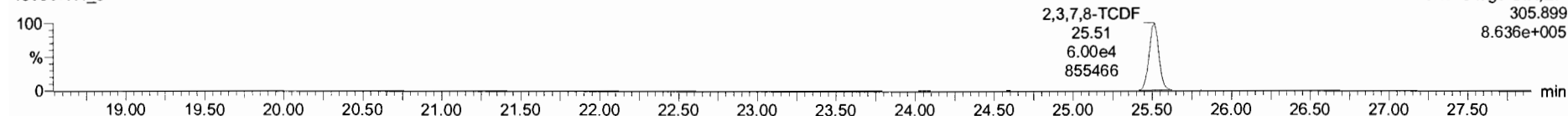
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### 2,3,7,8-TCDF

190507K1\_8

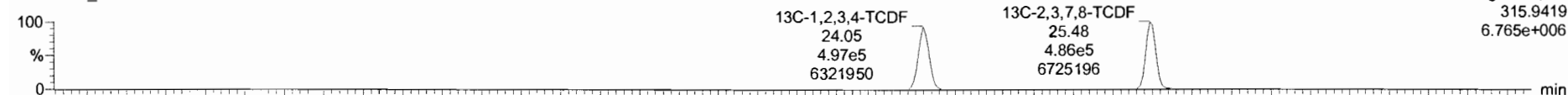


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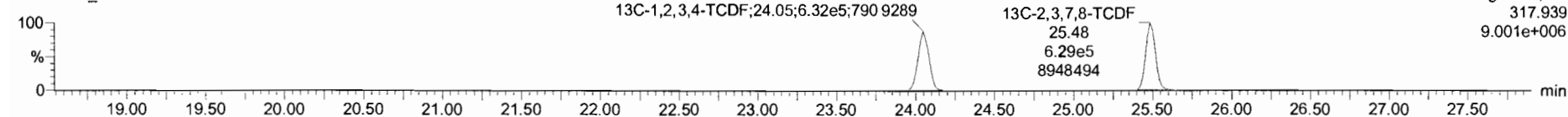


### 13C-2,3,7,8-TCDF

190507K1\_8

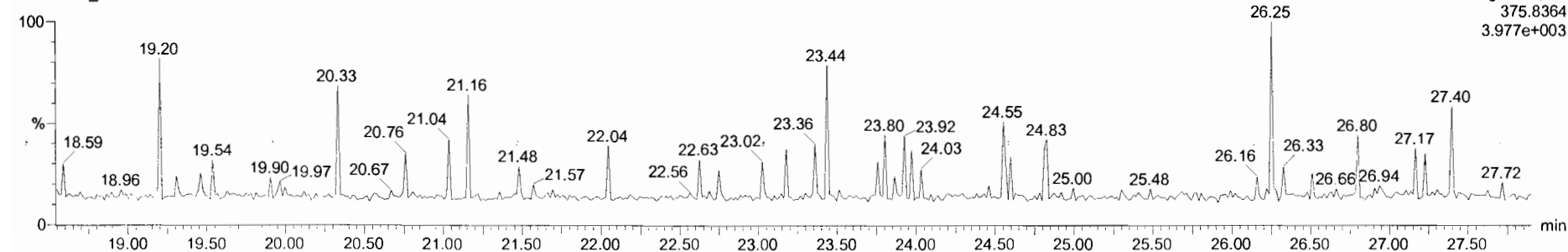


190507K1\_8



### DPE1

190507K1\_8

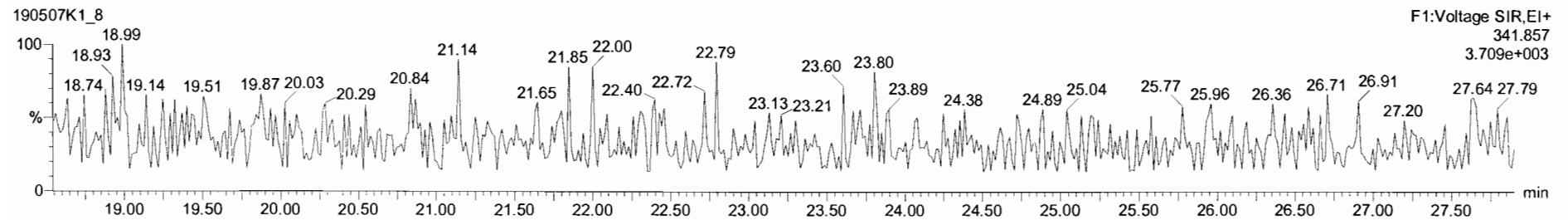
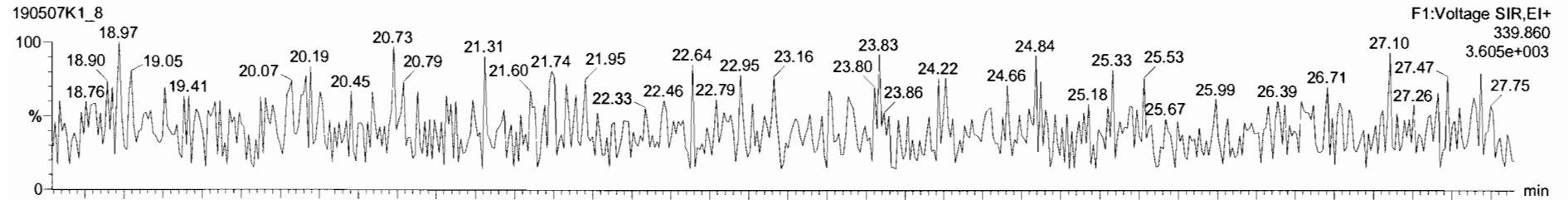


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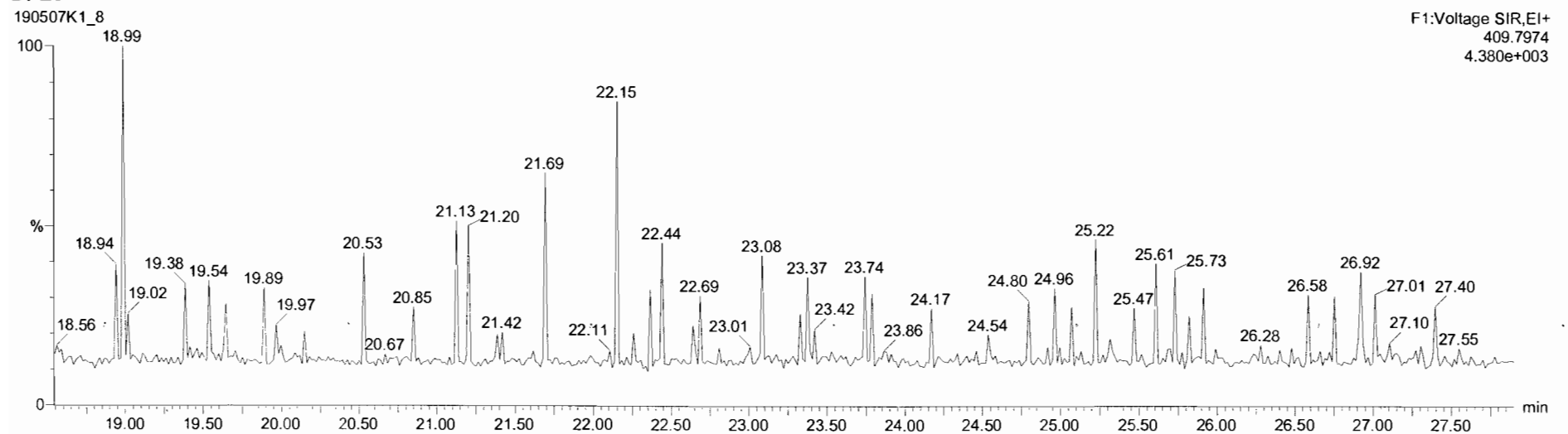
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1\_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

1st Func. Penta-Furans



DPE6



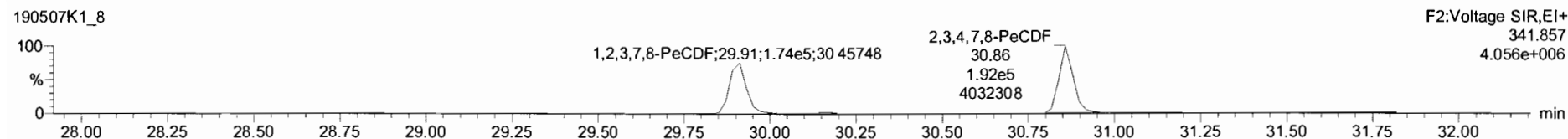
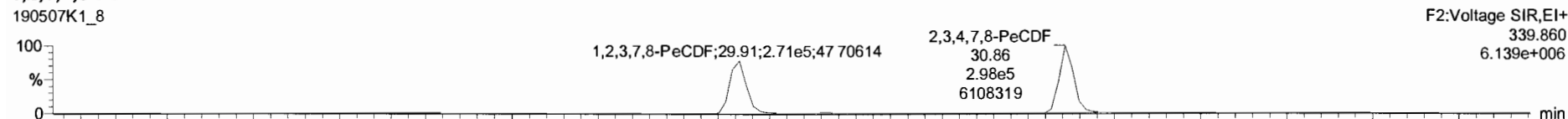


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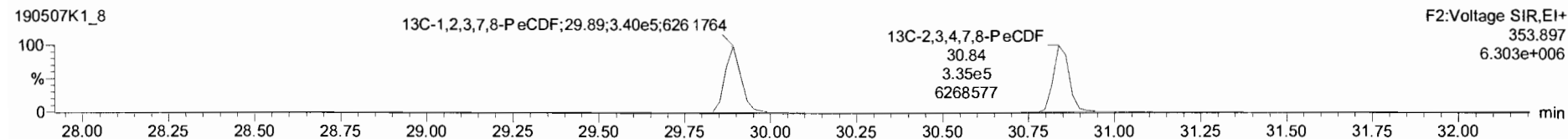
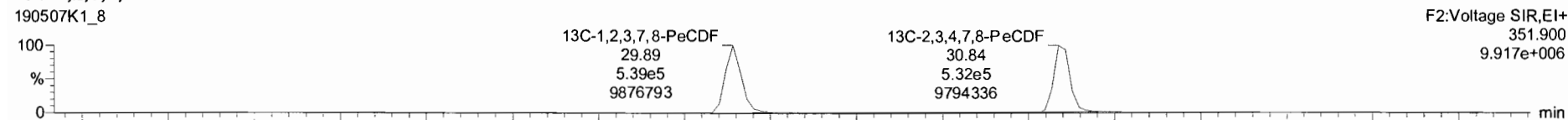
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1\_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

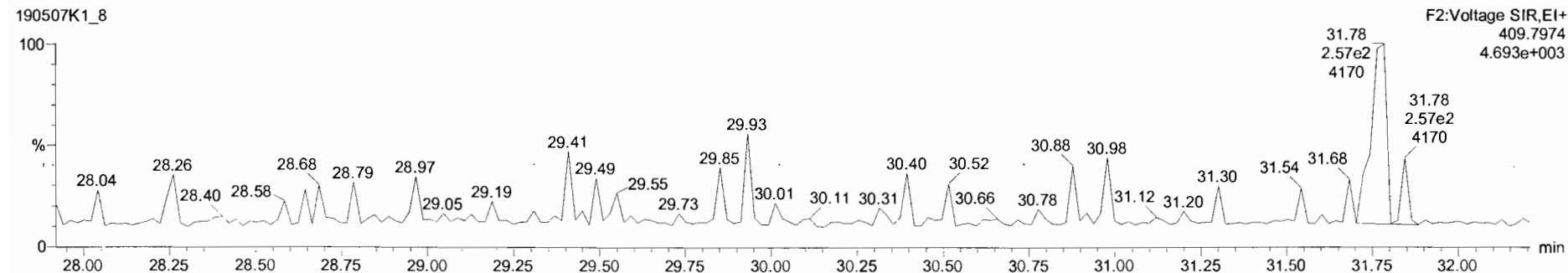
**1,2,3,7,8-PeCDF**



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



**DPE2**

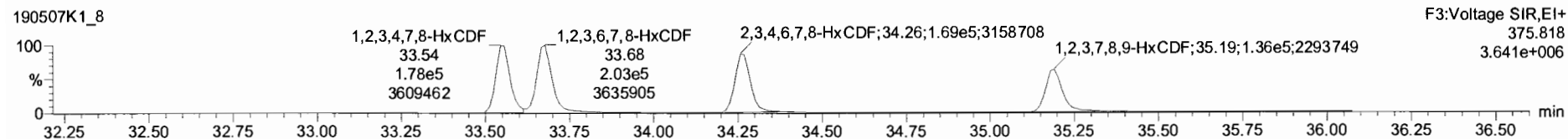
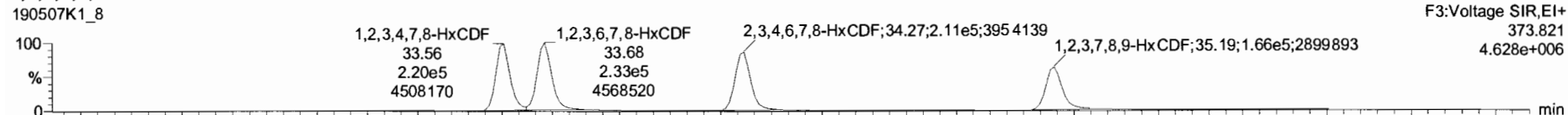


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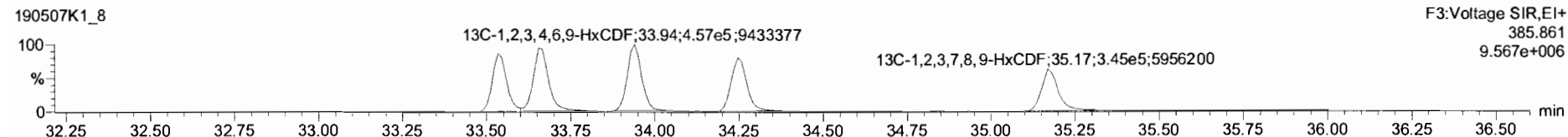
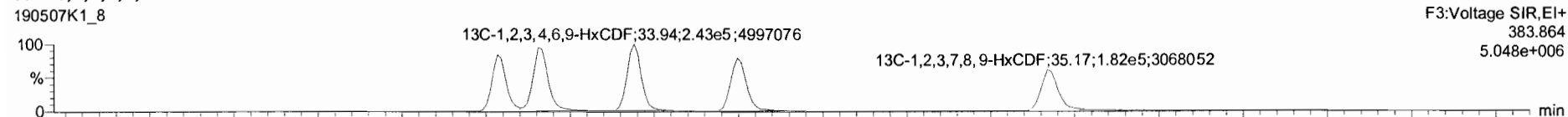
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1\_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

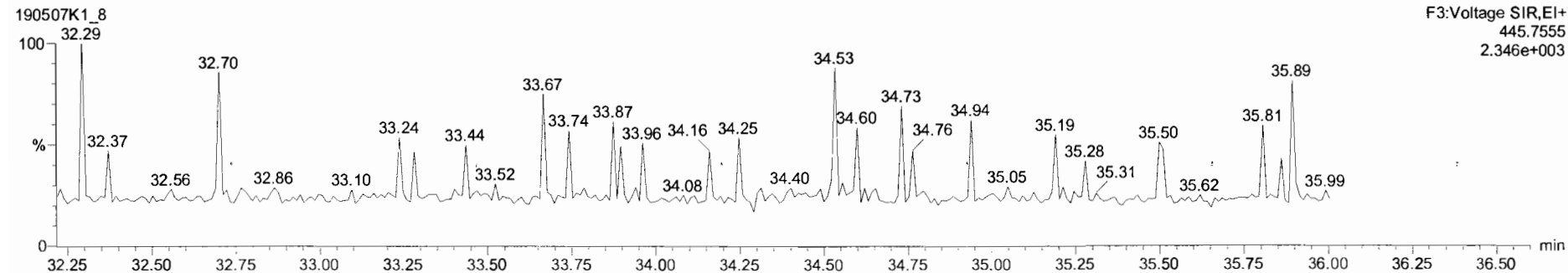
**1,2,3,4,7,8-HxCDF**



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



**DPE3**

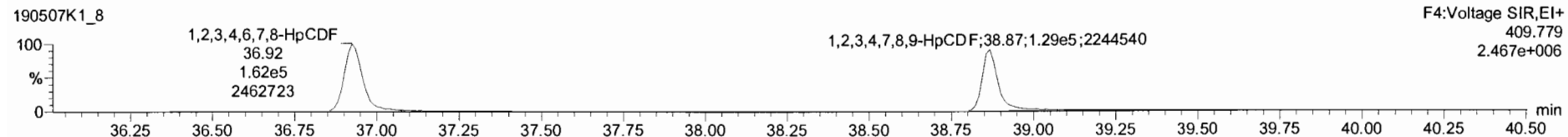
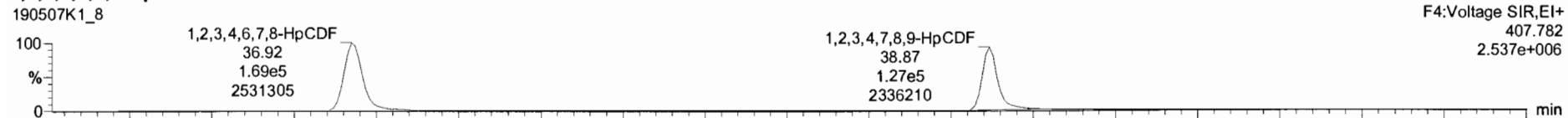


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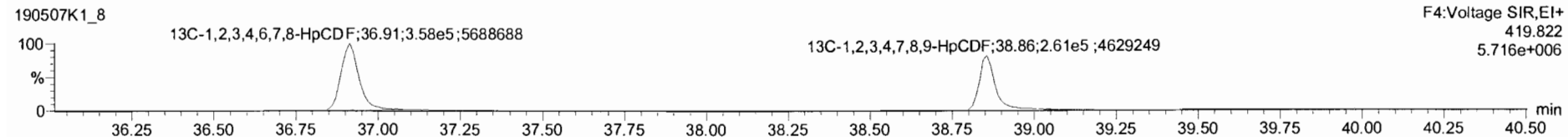
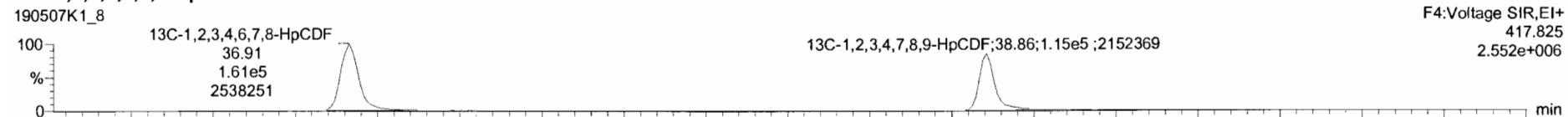
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Name: 190507K1\_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1\_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

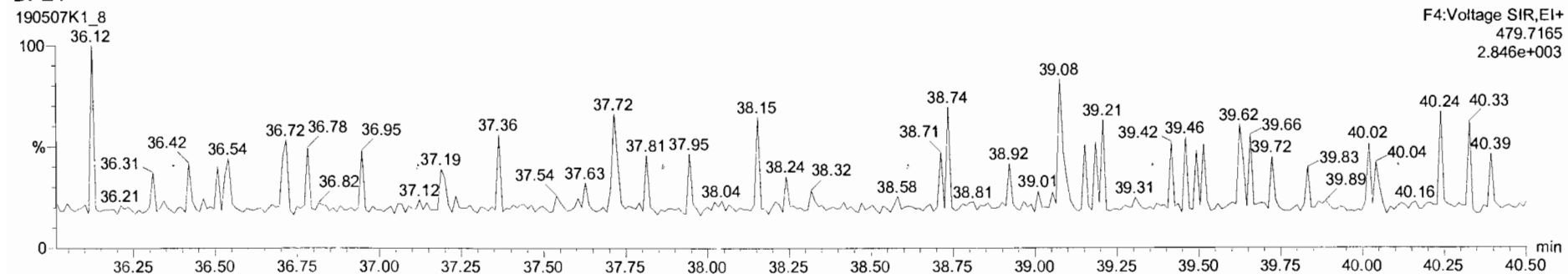
**1,2,3,4,6,7,8-HpCDF**



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



**DPE4**

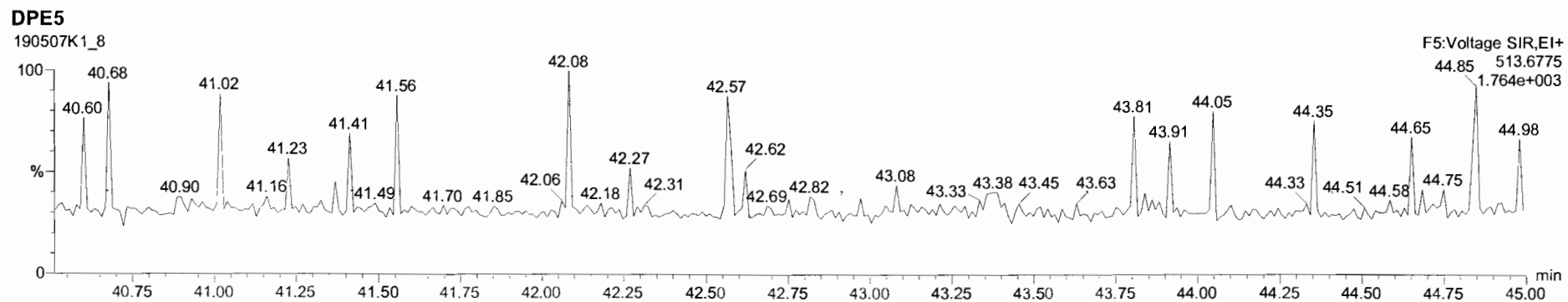
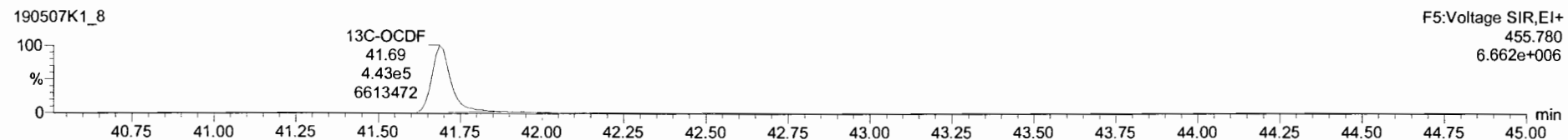
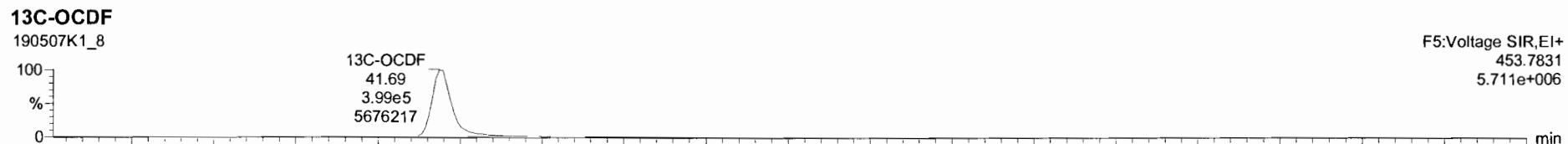
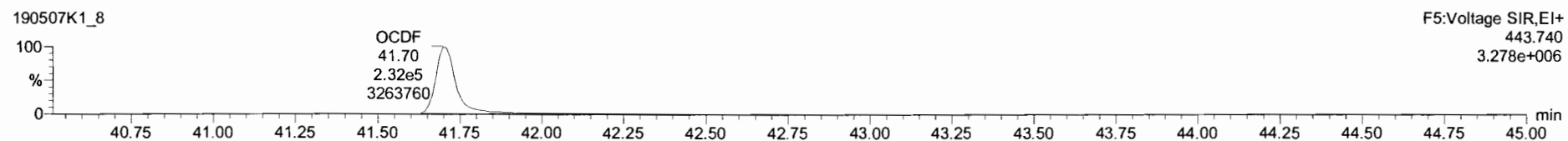
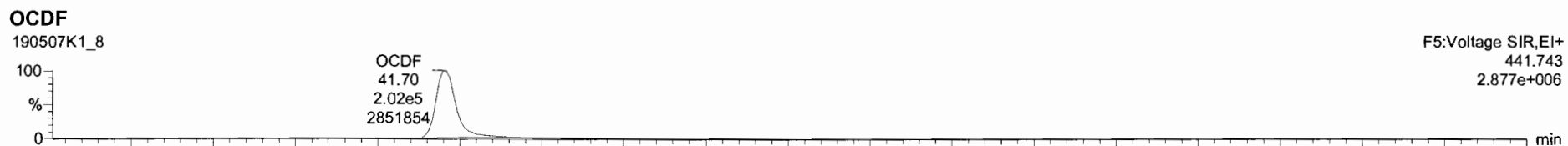


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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1\_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1\_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207





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

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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

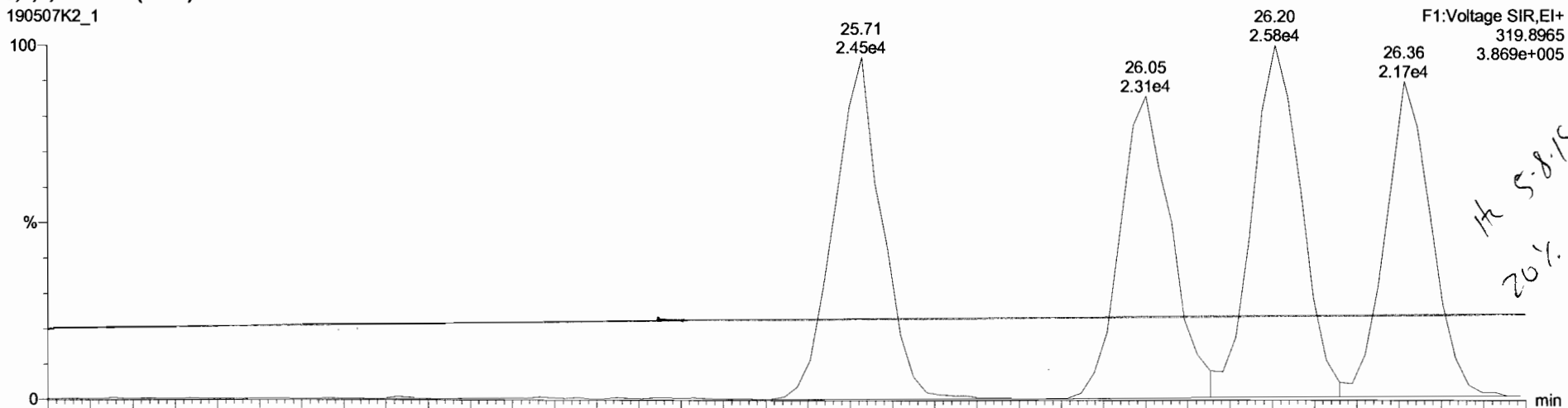
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Calibration: U:\VG11.PRO\CurveDB\db5\_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

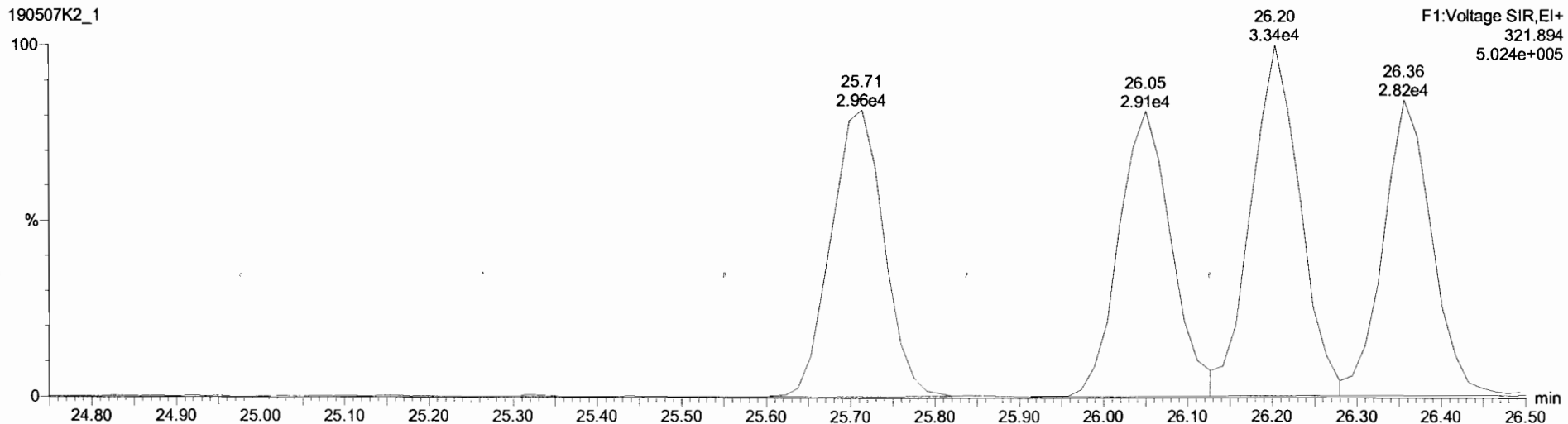
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1,3,6,8-TCDD (First)

190507K2\_1



190507K2\_1



Dataset: Untitled

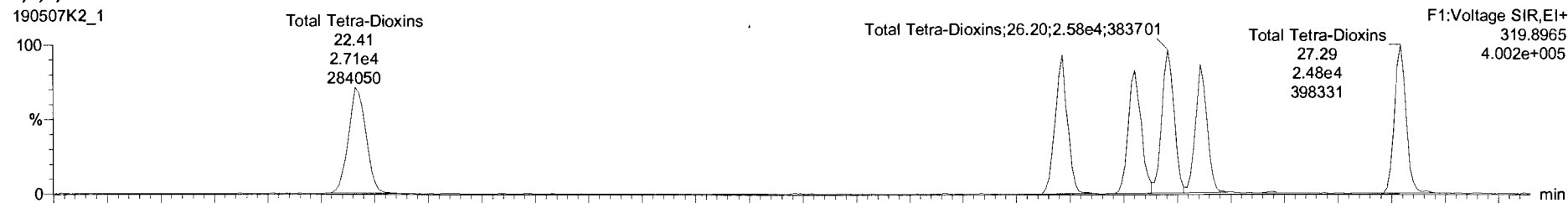
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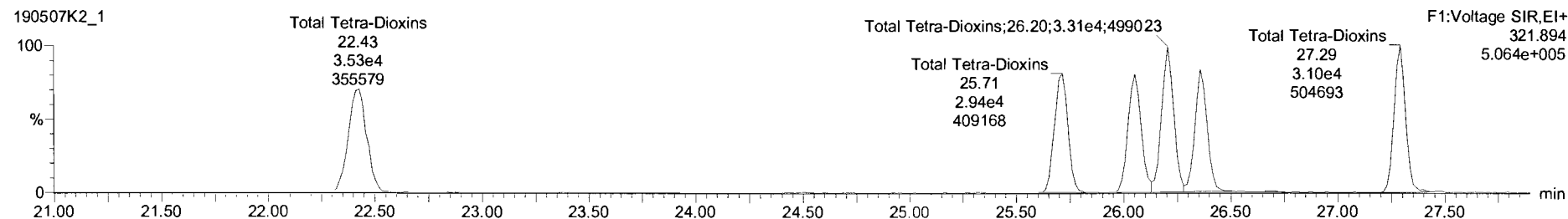
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**2,3,7,8-TCDD**

190507K2\_1



190507K2\_1

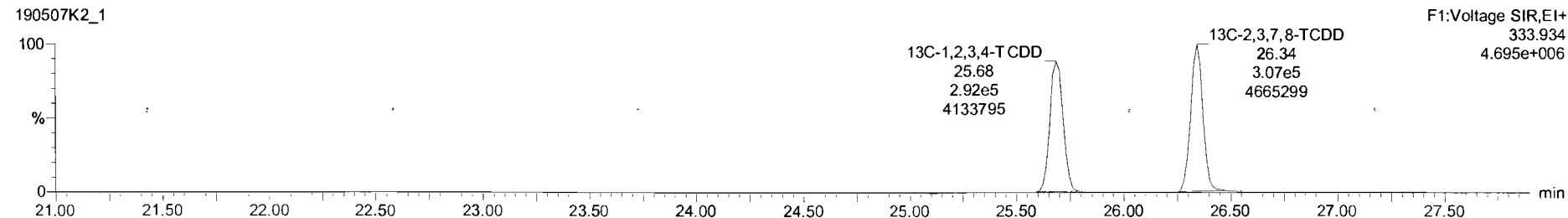


**13C-2,3,7,8-TCDD**

190507K2\_1



190507K2\_1



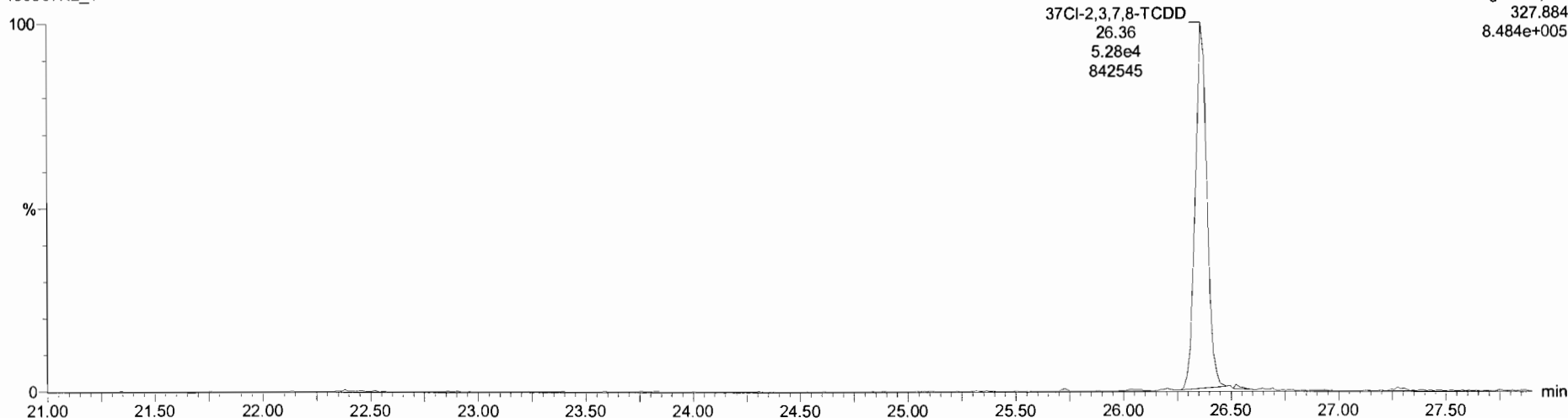
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K2\_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2\_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

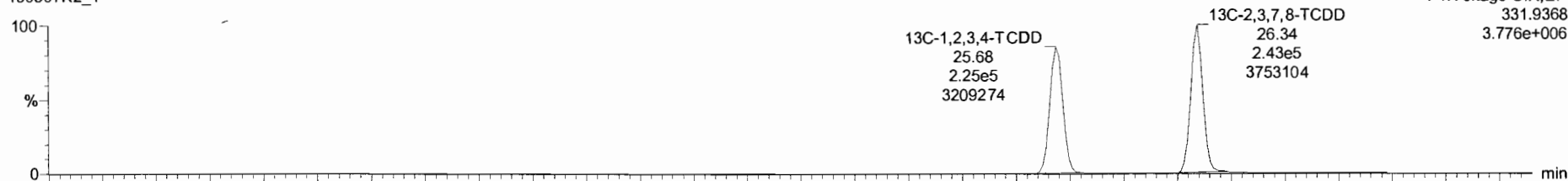
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190507K2\_1

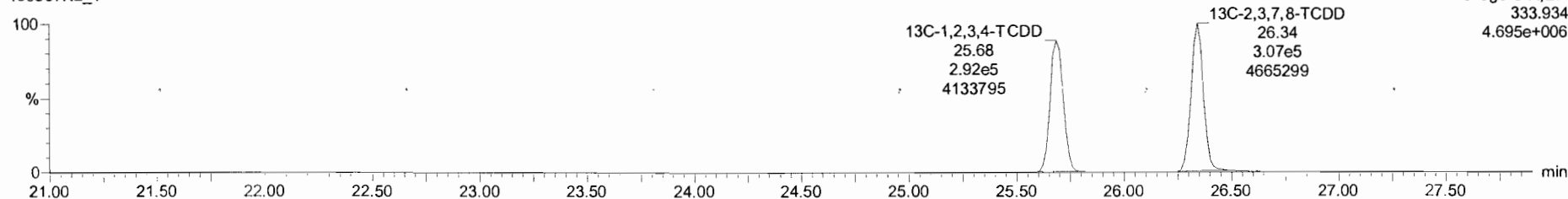


**13C-1,2,3,4-TCDD**

190507K2\_1



190507K2\_1

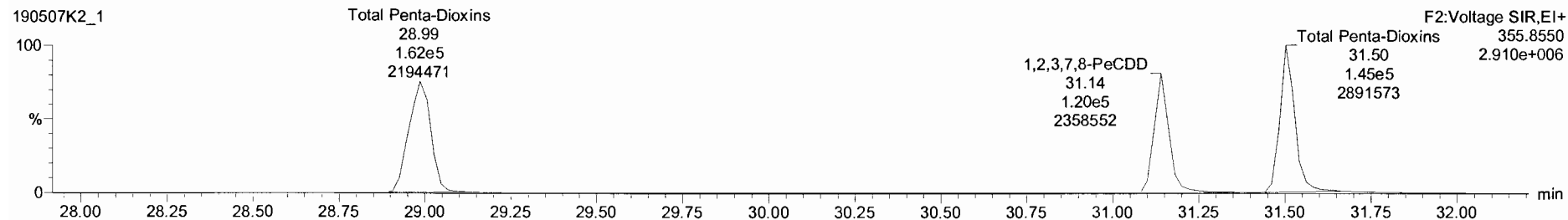
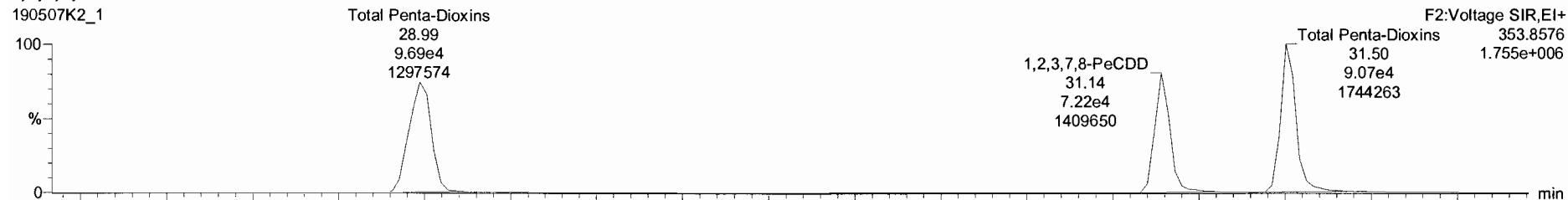


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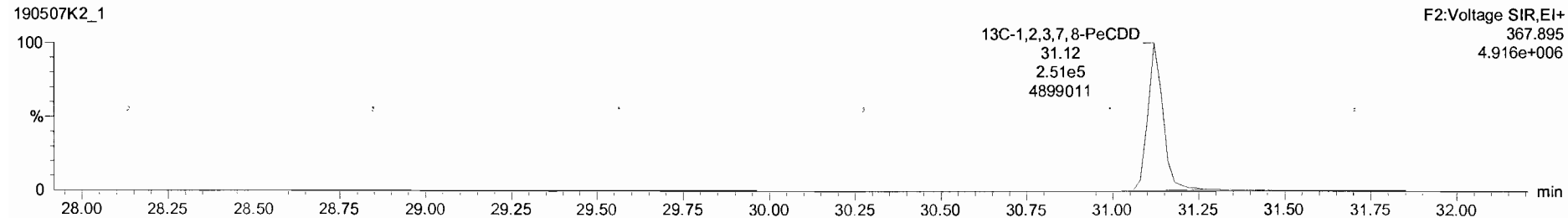
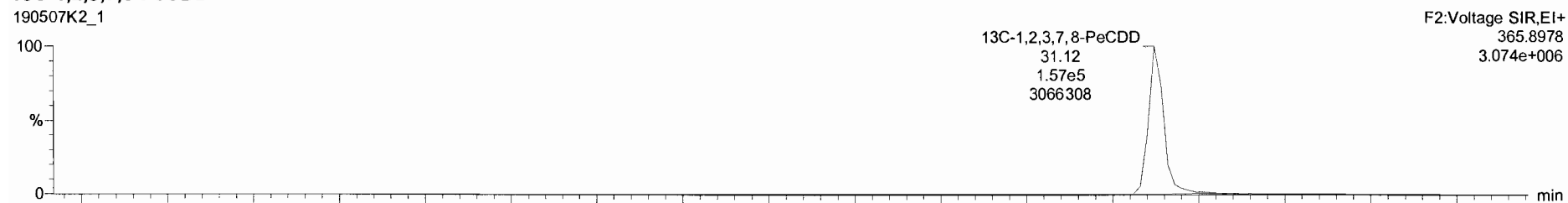
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Name: 190507K2\_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2\_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

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



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

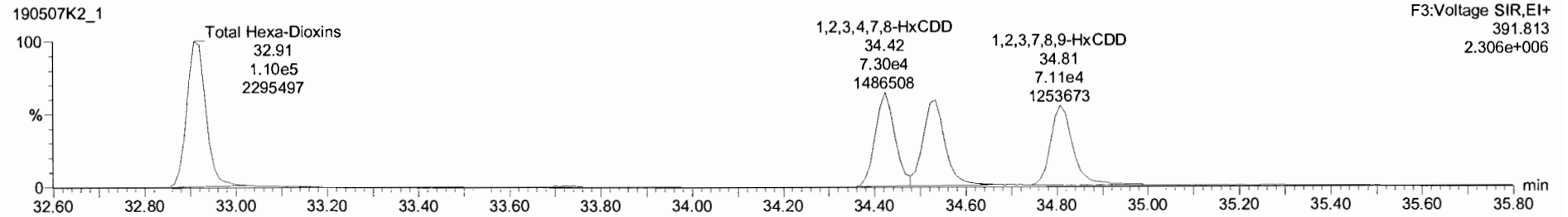
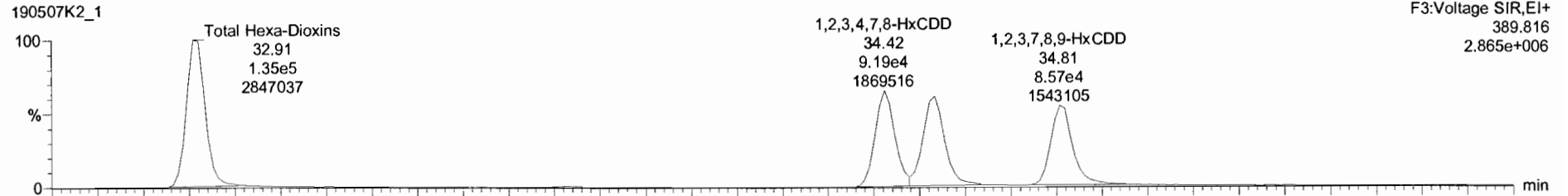


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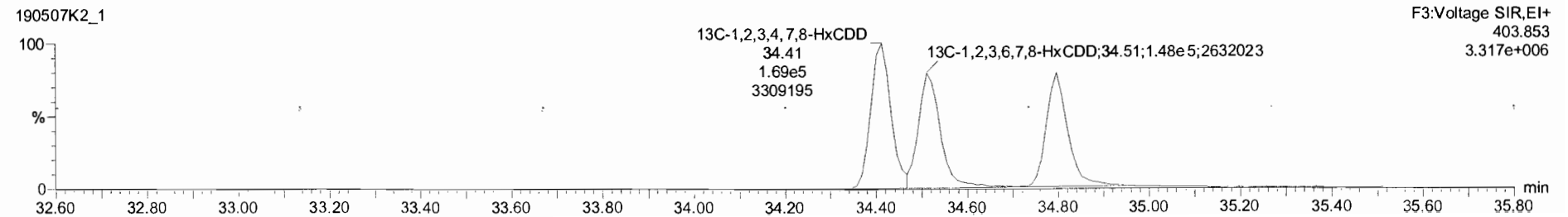
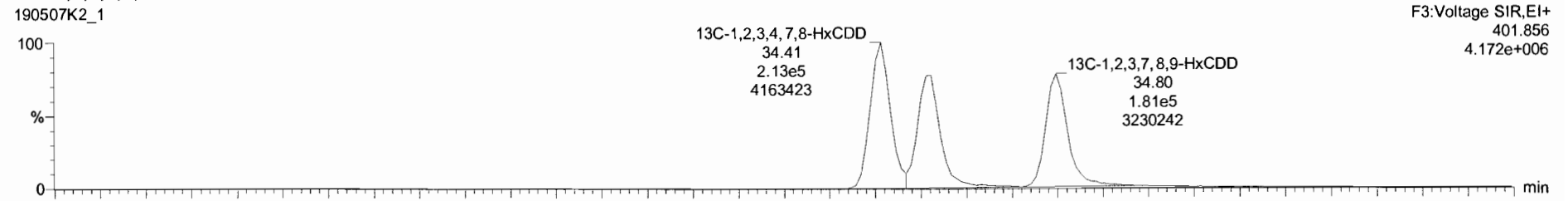
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**1,2,3,4,7,8-HxCDD**



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



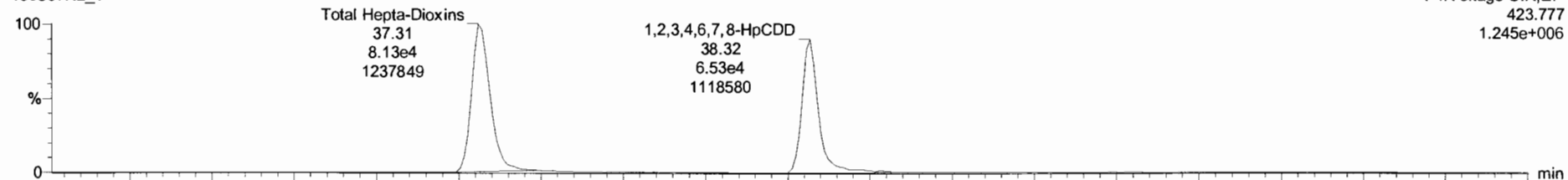
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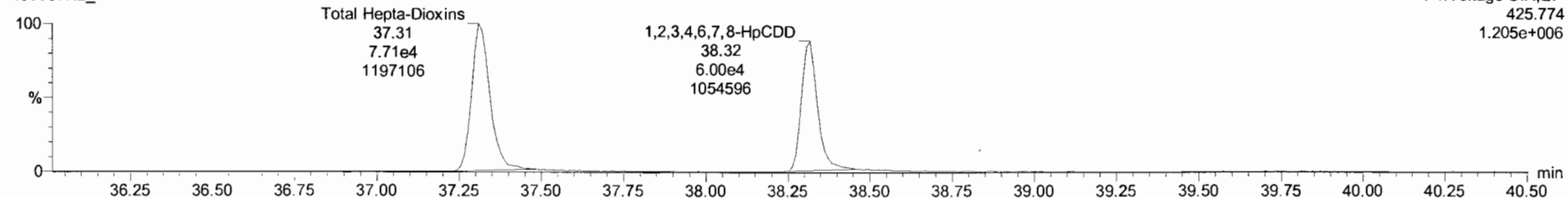
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1,2,3,4,6,7,8-HpCDD

190507K2\_1

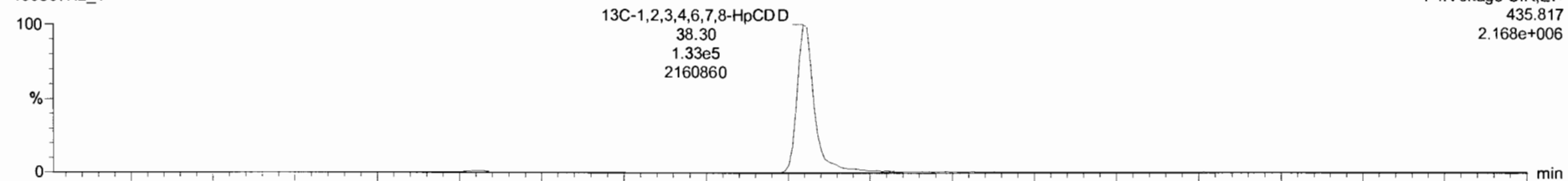


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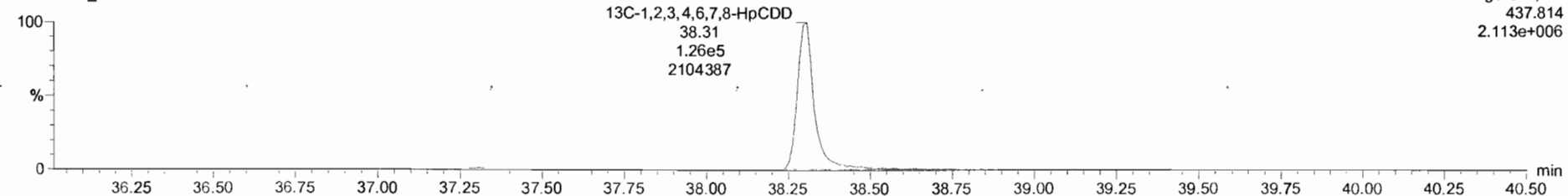


13C-1,2,3,4,6,7,8-HpCDD

190507K2\_1



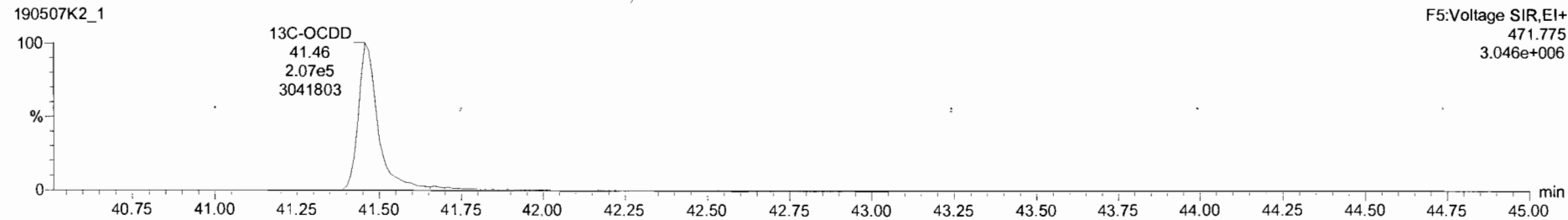
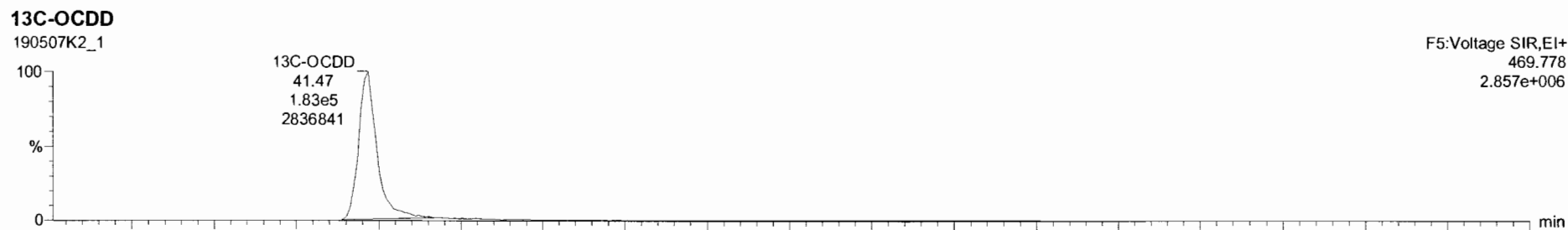
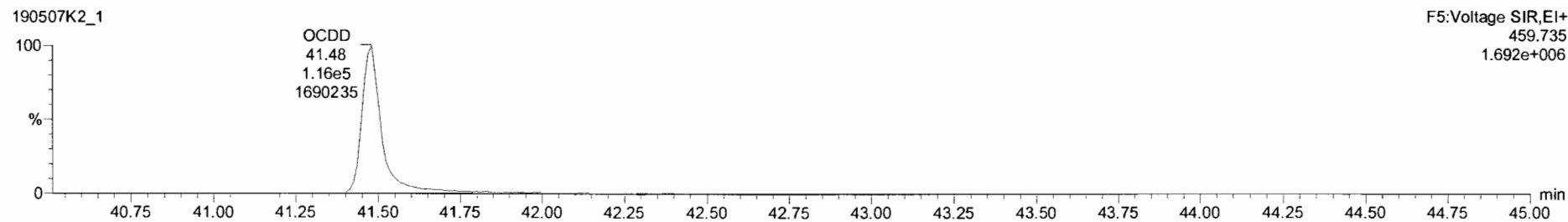
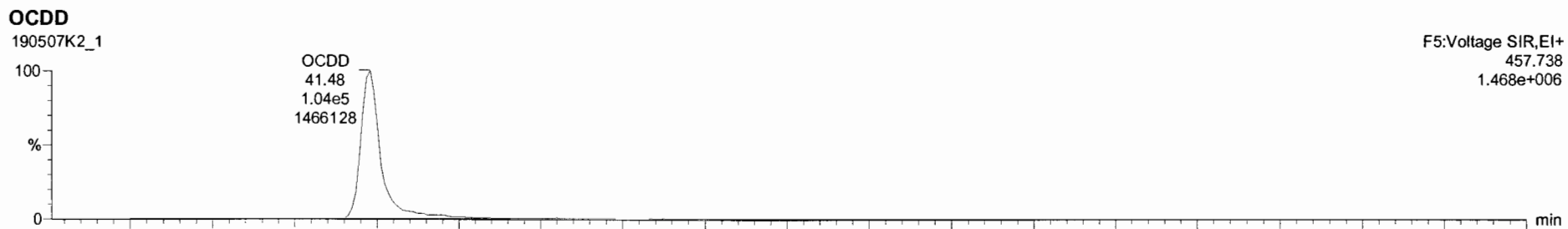
190507K2\_1



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Name: 190507K2\_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2\_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

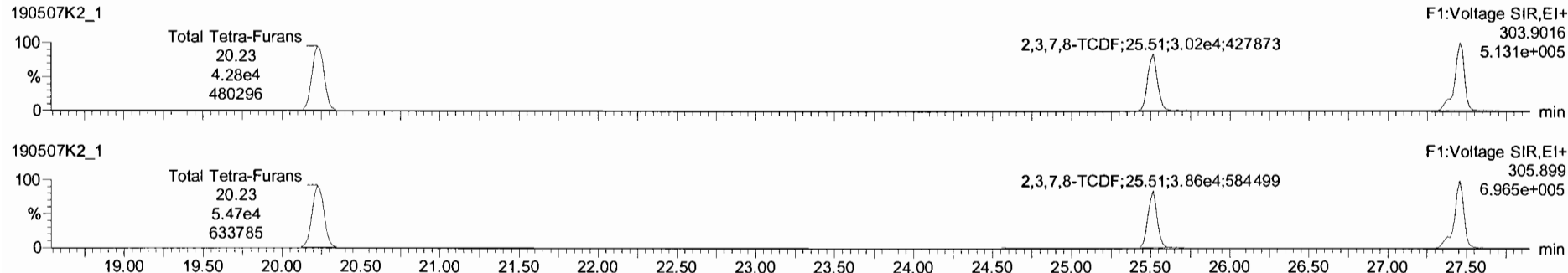


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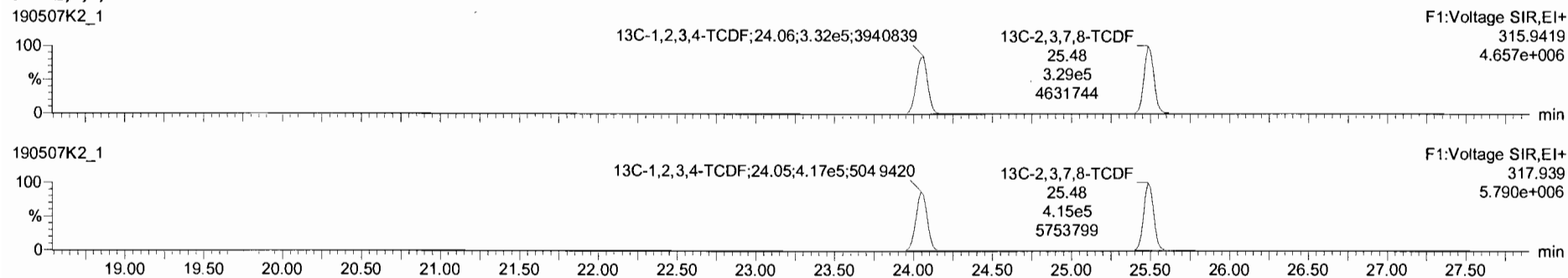
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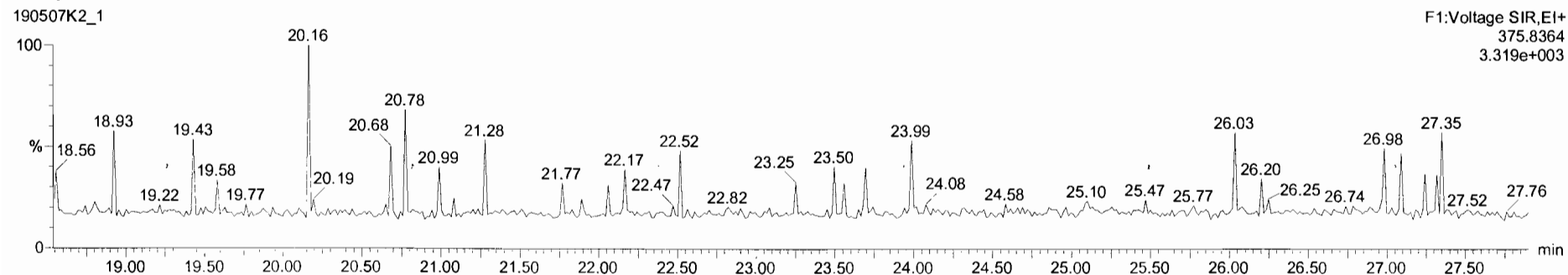
**2,3,7,8-TCDF**



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



**DPE1**





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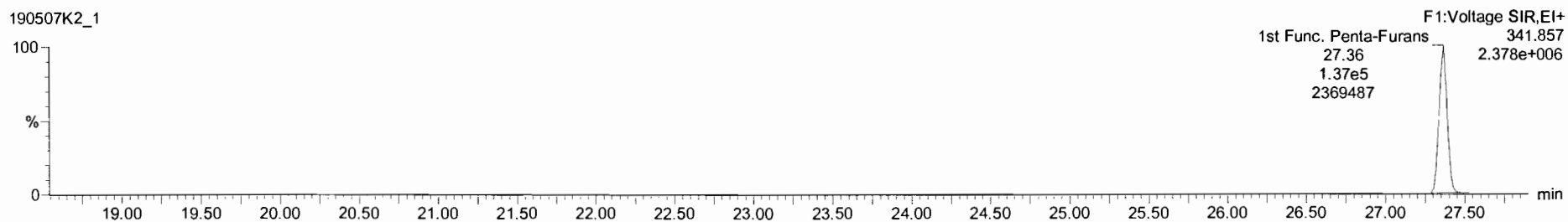
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190507K2\_1

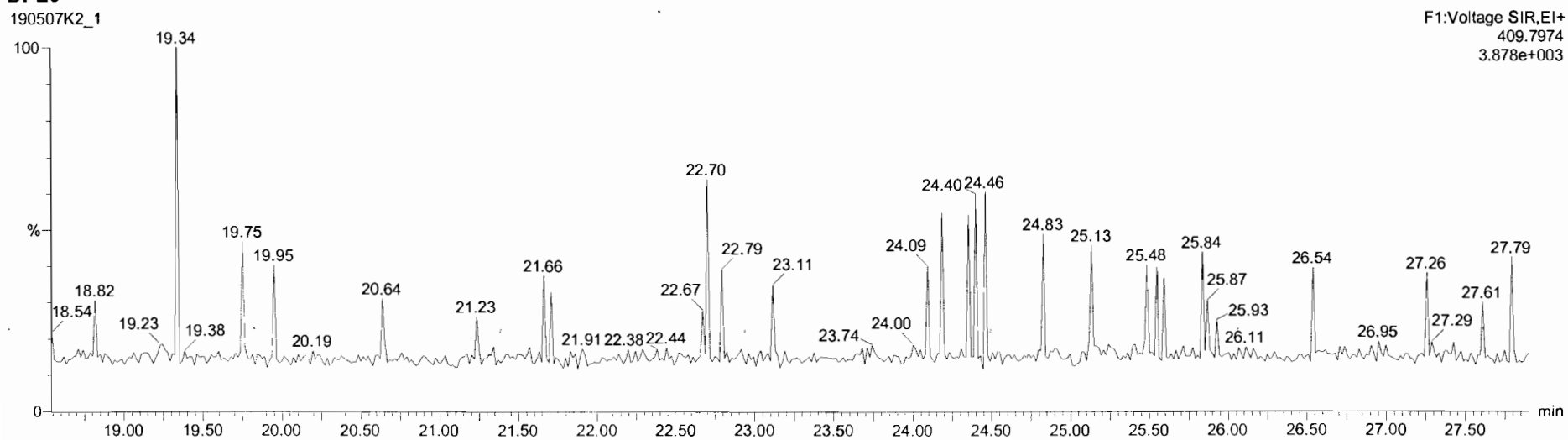


190507K2\_1



DPE6

190507K2\_1



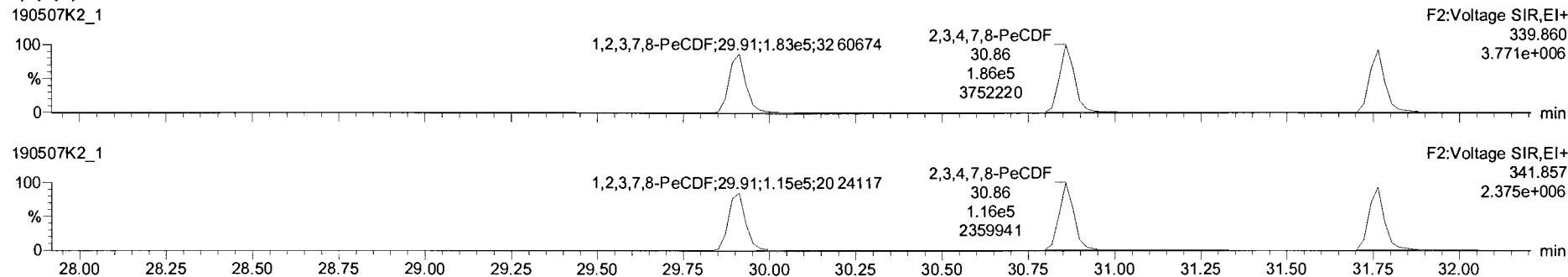
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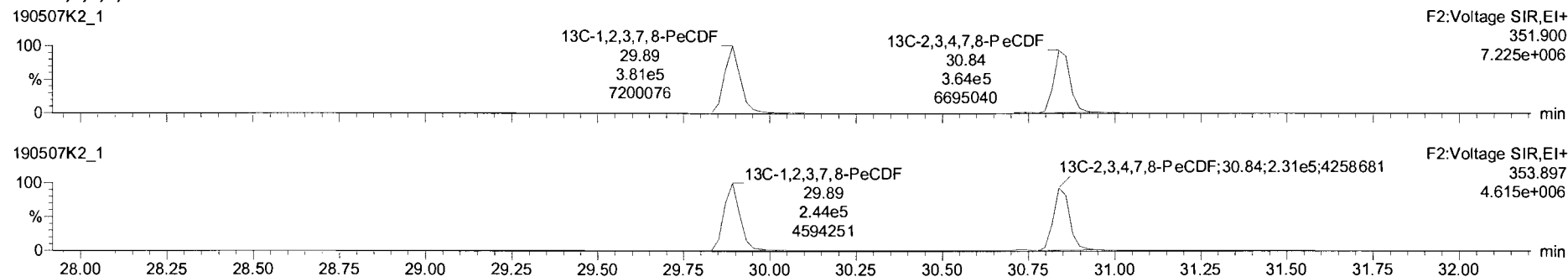
**1,2,3,7,8-PeCDF**

190507K2\_1



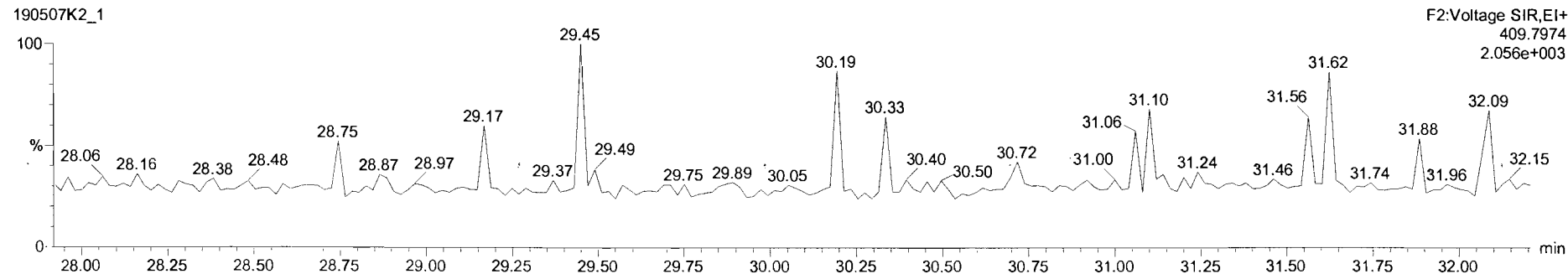
**13C-1,2,3,7,8-PeCDF**

190507K2\_1



**DPE2**

190507K2\_1

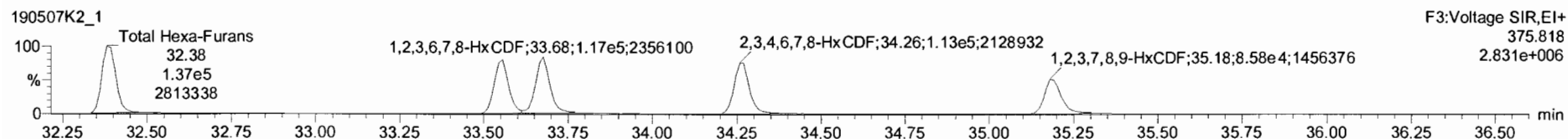
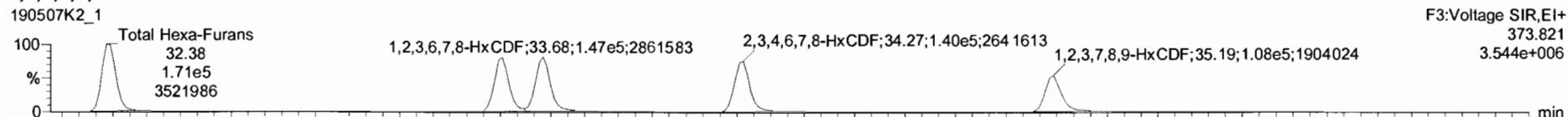


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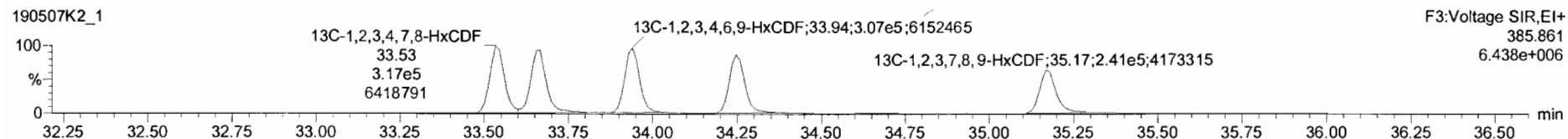
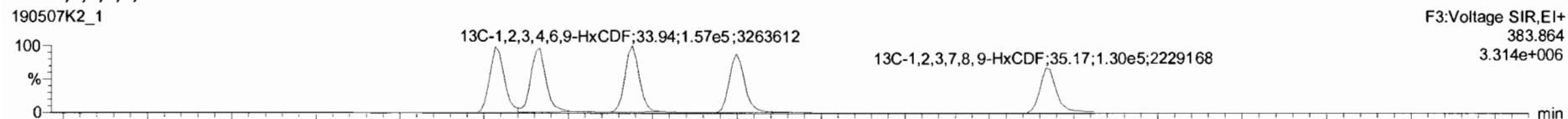
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K2\_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2\_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

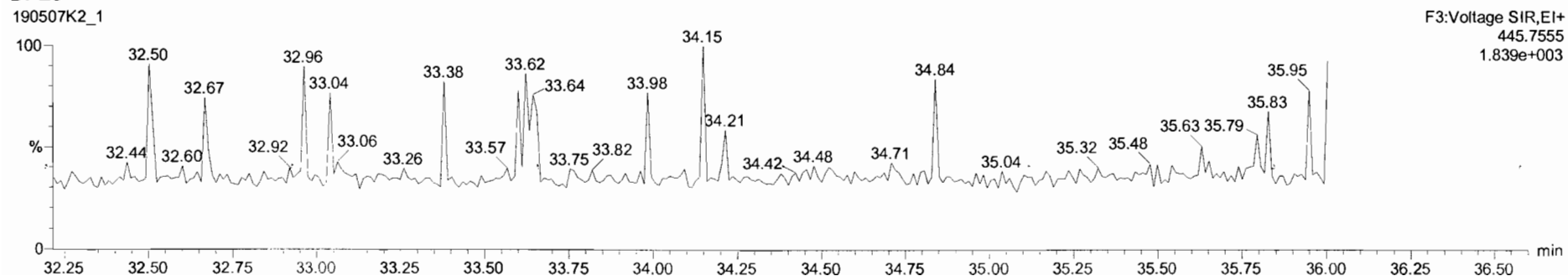
**1,2,3,4,7,8-HxCDF**



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



**DPE3**



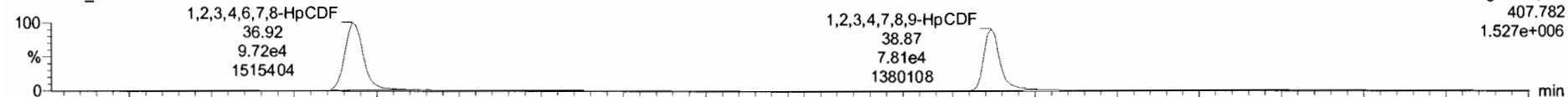
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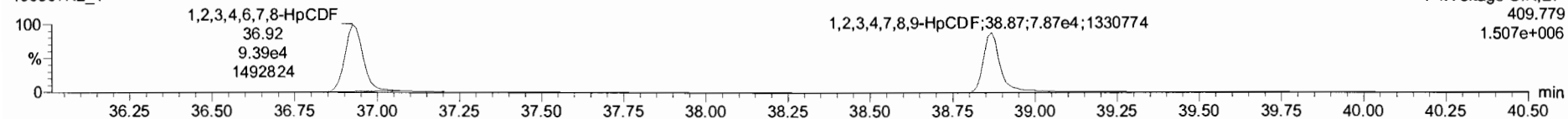
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**1,2,3,4,6,7,8-HpCDF**

190507K2\_1

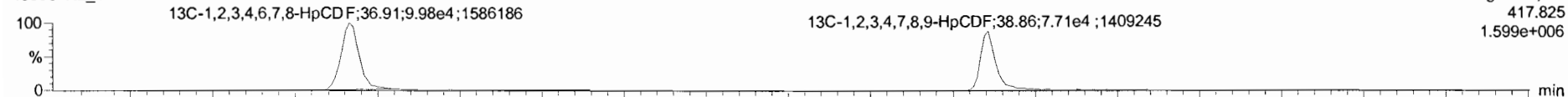


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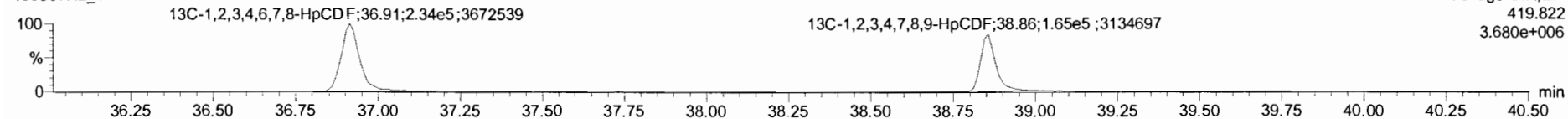


**13C-1,2,3,4,6,7,8-HpCDF**

190507K2\_1

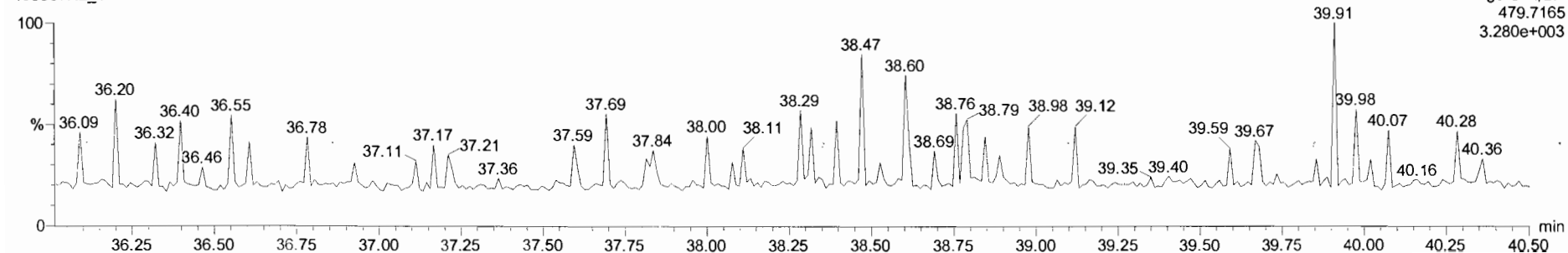


190507K2\_1



**DPE4**

190507K2\_1

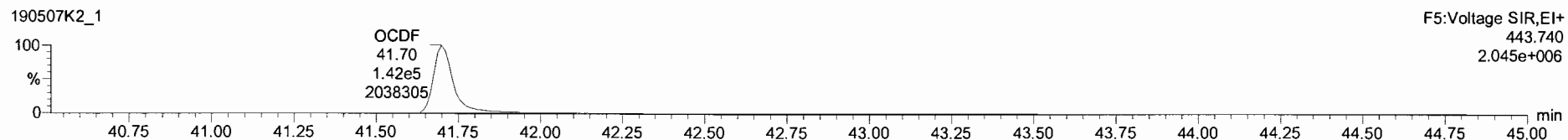
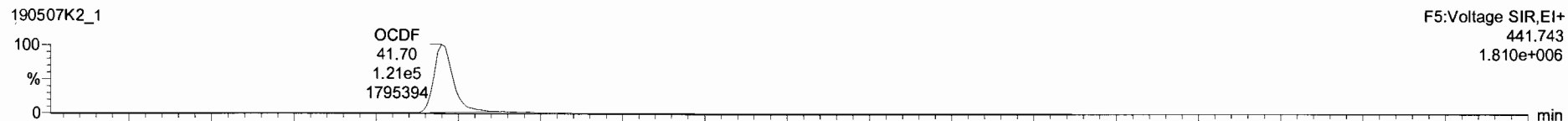


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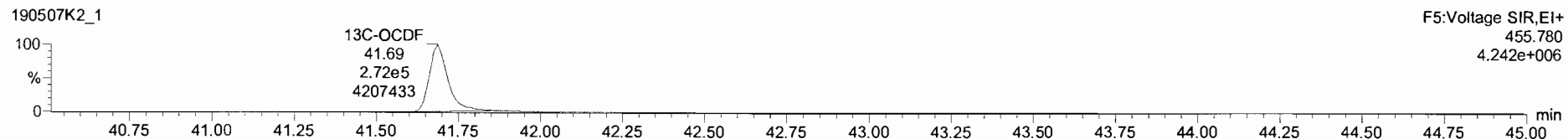
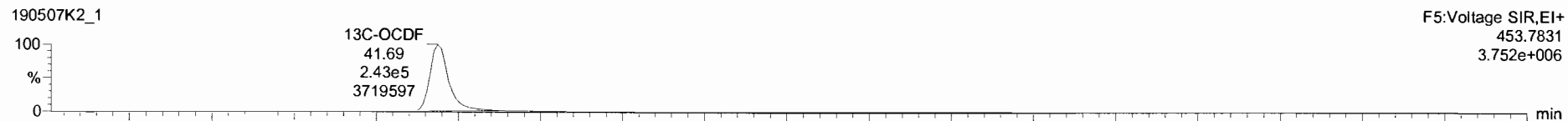
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K2\_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2\_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

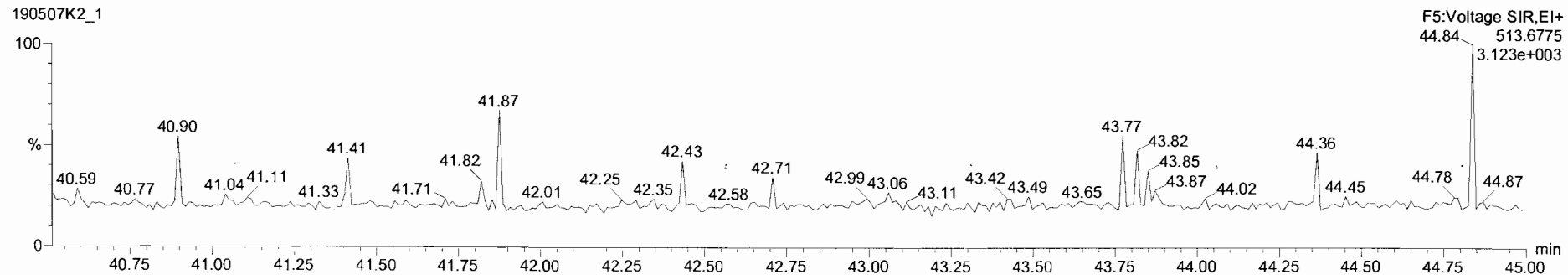
**OCDF**



**13C-OCDF**



**DPE5**



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