



June 02, 2021

**Vista Work Order No. 2104304**

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 April 30, 2021 under your Project Name 'GascoSiltronic: US Moorings'.

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,

for

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. 2104304**

**Case Narrative**

**Sample Condition on Receipt:**

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

**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-DIOXIN GC column.

**Holding Times**

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

**Quality Control**

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

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with 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>
2104304-01	USMPDI-033SC-A-14-15-210427	27-Apr-21 10:49	30-Apr-21 09:03	Amber Glass, 120 mL
2104304-02	USMPDI-033SC-A-15-15.5-210427	27-Apr-21 10:49	30-Apr-21 09:03	Amber Glass, 120 mL
2104304-03	USMPDI-041SC-A-14-15-210427	27-Apr-21 14:16	30-Apr-21 09:03	Amber Glass, 120 mL
2104304-04	USMPDI-041SC-A-15-15.7-210427	27-Apr-21 14:16	30-Apr-21 09:03	Amber Glass, 120 mL

## **ANALYTICAL RESULTS**

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B1E0057 Date Extracted: 08-May-2021 8:49		Lab Sample: B1E0057-BLK1 Date Analyzed: 14-May-21 18:11 Column: ZB-DIOXIN				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.129			IS 13C-2,3,7,8-TCDD	86.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.160			13C-1,2,3,7,8-PeCDD	101	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.269			13C-1,2,3,4,7,8-HxCDD	78.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.262			13C-1,2,3,6,7,8-HxCDD	74.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.250			13C-1,2,3,7,8,9-HxCDD	73.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.239			13C-1,2,3,4,6,7,8-HpCDD	72.3	23 - 140	
OCDD	ND	0.736			13C-OCDD	64.2	17 - 157	
2,3,7,8-TCDF	ND	0.102			13C-2,3,7,8-TCDF	96.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.127			13C-1,2,3,7,8-PeCDF	92.8	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0965			13C-2,3,4,7,8-PeCDF	105	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.102			13C-1,2,3,4,7,8-HxCDF	95.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.100			13C-1,2,3,6,7,8-HxCDF	96.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.125			13C-2,3,4,6,7,8-HxCDF	90.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.155			13C-1,2,3,7,8,9-HxCDF	87.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0863			13C-1,2,3,4,6,7,8-HpCDF	83.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.138			13C-1,2,3,4,7,8,9-HpCDF	83.1	26 - 138	
OCDF	ND	0.447			13C-OCDF	72.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	163	35 - 197	
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>			
					TEQMinWHO2005Dioxin 0.00			
<b>TOTALS</b>								
Total TCDD	ND	0.129						
Total PeCDD	ND	0.160						
Total HxCDD	ND	0.269						
Total HpCDD	ND	0.239						
Total TCDF	ND	0.102						
Total PeCDF	ND	0.127						
Total HxCDF	ND	0.155						
Total HpCDF	ND	0.138						

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: B1E0057	Lab Sample: B1E0057-BS1		Date Analyzed: 14-May-21 16:38 Column: ZB-DIOXIN			
Sample Size: 10.0 g	Date Extracted: 08-May-2021 8:49						
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	22.3	20.0	112	67 - 158	IS 13C-2,3,7,8-TCDD	91.7	20 - 175
1,2,3,7,8-PeCDD	114	100	114	70 - 142	13C-1,2,3,7,8-PeCDD	94.7	21 - 227
1,2,3,4,7,8-HxCDD	112	100	112	70 - 164	13C-1,2,3,4,7,8-HxCDD	74.0	21 - 193
1,2,3,6,7,8-HxCDD	118	100	118	76 - 134	13C-1,2,3,6,7,8-HxCDD	76.4	25 - 163
1,2,3,7,8,9-HxCDD	115	100	115	64 - 162	13C-1,2,3,7,8,9-HxCDD	74.4	21 - 193
1,2,3,4,6,7,8-HpCDD	112	100	112	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	69.3	26 - 166
OCDD	212	200	106	78 - 144	13C-OCDD	63.8	13 - 199
2,3,7,8-TCDF	20.9	20.0	105	75 - 158	13C-2,3,7,8-TCDF	93.4	22 - 152
1,2,3,7,8-PeCDF	118	100	118	80 - 134	13C-1,2,3,7,8-PeCDF	95.8	21 - 192
2,3,4,7,8-PeCDF	121	100	121	68 - 160	13C-2,3,4,7,8-PeCDF	99.2	13 - 328
1,2,3,4,7,8-HxCDF	110	100	110	72 - 134	13C-1,2,3,4,7,8-HxCDF	87.2	19 - 202
1,2,3,6,7,8-HxCDF	107	100	107	84 - 130	13C-1,2,3,6,7,8-HxCDF	91.1	21 - 159
2,3,4,6,7,8-HxCDF	110	100	110	70 - 156	13C-2,3,4,6,7,8-HxCDF	85.8	22 - 176
1,2,3,7,8,9-HxCDF	105	100	105	78 - 130	13C-1,2,3,7,8,9-HxCDF	83.8	17 - 205
1,2,3,4,6,7,8-HpCDF	111	100	111	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	76.7	21 - 158
1,2,3,4,7,8,9-HpCDF	111	100	111	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	75.1	20 - 186
OCDF	217	200	108	63 - 170	13C-OCDF	66.8	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	157	31 - 191

LCL-UCL - Lower control limit - upper control limit

**Sample ID: USMPDI-033SC-A-14-15-210427** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2104304-01      Date Received: 30-Apr-2021 9:03
Project: GascoSiltronic: US Moorings	Sample Size: 17.1 g	QC Batch: B1E0057      Date Extracted: 08-May-2021 8:49
Date Collected: 27-Apr-2021 10:49	% Solids: 59.2	Date Analyzed : 14-May-21 18:57 Column: ZB-DIOXIN 17-May-21 21:35 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.79				IS 13C-2,3,7,8-TCDD	85.3	25 - 164	
1,2,3,7,8-PeCDD	ND		1.29		13C-1,2,3,7,8-PeCDD	84.1	25 - 181	
1,2,3,4,7,8-HxCDD	2.29			J	13C-1,2,3,4,7,8-HxCDD	74.1	32 - 141	
1,2,3,6,7,8-HxCDD	13.1				13C-1,2,3,6,7,8-HxCDD	71.1	28 - 130	
1,2,3,7,8,9-HxCDD	5.30				13C-1,2,3,7,8,9-HxCDD	70.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	365				13C-1,2,3,4,6,7,8-HpCDD	72.8	23 - 140	
OCDD	6470			D	13C-OCDD	78.3	17 - 157	D
2,3,7,8-TCDF	80.2				13C-2,3,7,8-TCDF	88.3	24 - 169	
1,2,3,7,8-PeCDF	159				13C-1,2,3,7,8-PeCDF	81.6	24 - 185	
2,3,4,7,8-PeCDF	75.8				13C-2,3,4,7,8-PeCDF	86.7	21 - 178	
1,2,3,4,7,8-HxCDF	306				13C-1,2,3,4,7,8-HxCDF	91.4	26 - 152	
1,2,3,6,7,8-HxCDF	80.8				13C-1,2,3,6,7,8-HxCDF	88.3	26 - 123	
2,3,4,6,7,8-HxCDF	18.4				13C-2,3,4,6,7,8-HxCDF	81.3	28 - 136	
1,2,3,7,8,9-HxCDF	8.65				13C-1,2,3,7,8,9-HxCDF	85.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	241				13C-1,2,3,4,6,7,8-HpCDF	78.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	55.5				13C-1,2,3,4,7,8,9-HpCDF	82.0	26 - 138	
OCDF	525				13C-OCDF	75.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	177	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
TEQMinWHO2005Dioxin      89.5

<b>TOTALS</b>			
Total TCDD	15.2	17.0	
Total PeCDD	9.64	20.2	
Total HxCDD	123		
Total HpCDD	927		
Total TCDF	248	251	
Total PeCDF	448		
Total HxCDF	644	671	
Total HpCDF	753		

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: USMPDI-033SC-A-15-15.5-210427** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2104304-02      Date Received: 30-Apr-2021 9:03
Project: GascoSiltronic: US Moorings	Sample Size: 16.3 g	QC Batch: B1E0057      Date Extracted: 08-May-2021 8:49
Date Collected: 27-Apr-2021 10:49	% Solids: 62.3	Date Analyzed: 14-May-21 19:44      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.42				IS 13C-2,3,7,8-TCDD	89.8	25 - 164	
1,2,3,7,8-PeCDD	ND		0.592		13C-1,2,3,7,8-PeCDD	90.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	1.49			13C-1,2,3,4,7,8-HxCDD	68.0	32 - 141	
1,2,3,6,7,8-HxCDD	6.51				13C-1,2,3,6,7,8-HxCDD	68.9	28 - 130	
1,2,3,7,8,9-HxCDD	2.89				13C-1,2,3,7,8,9-HxCDD	67.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	138				13C-1,2,3,4,6,7,8-HpCDD	73.4	23 - 140	
OCDD	2410				13C-OCDD	72.5	17 - 157	
2,3,7,8-TCDF	4.25				13C-2,3,7,8-TCDF	72.2	24 - 169	
1,2,3,7,8-PeCDF	5.46				13C-1,2,3,7,8-PeCDF	78.8	24 - 185	
2,3,4,7,8-PeCDF	6.02				13C-2,3,4,7,8-PeCDF	83.1	21 - 178	
1,2,3,4,7,8-HxCDF	13.0				13C-1,2,3,4,7,8-HxCDF	86.1	26 - 152	
1,2,3,6,7,8-HxCDF	8.53				13C-1,2,3,6,7,8-HxCDF	88.1	26 - 123	
2,3,4,6,7,8-HxCDF	4.46				13C-2,3,4,6,7,8-HxCDF	85.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.784		13C-1,2,3,7,8,9-HxCDF	82.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	54.6				13C-1,2,3,4,6,7,8-HpCDF	79.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	5.81				13C-1,2,3,4,7,8,9-HpCDF	85.3	26 - 138	
OCDF	126				13C-OCDF	79.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	171	35 - 197	

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

TEQMinWHO2005Dioxin	10.1
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<b>TOTALS</b>			
Total TCDD	8.53		9.92
Total PeCDD	6.75		12.1
Total HxCDD	64.0		64.2
Total HpCDD	368		
Total TCDF	34.1		37.9
Total PeCDF	50.3		51.5
Total HxCDF	91.6		94.3
Total HpCDF	170		

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: USMPDI-041SC-A-14-15-210427** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2104304-03      Date Received: 30-Apr-2021 9:03
Project: GascoSiltronic: US Moorings	Sample Size: 17.2 g	QC Batch: B1E0057      Date Extracted: 08-May-2021 8:49
Date Collected: 27-Apr-2021 14:16	% Solids: 58.6	Date Analyzed : 14-May-21 20:31      Column: ZB-DIOXIN 17-May-21 22:21      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		2.19		IS 13C-2,3,7,8-TCDD	88.9	25 - 164	
1,2,3,7,8-PeCDD	3.44				13C-1,2,3,7,8-PeCDD	86.1	25 - 181	
1,2,3,4,7,8-HxCDD	4.63				13C-1,2,3,4,7,8-HxCDD	65.7	32 - 141	
1,2,3,6,7,8-HxCDD	22.5				13C-1,2,3,6,7,8-HxCDD	74.4	28 - 130	
1,2,3,7,8,9-HxCDD	10.9				13C-1,2,3,7,8,9-HxCDD	76.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	607				13C-1,2,3,4,6,7,8-HpCDD	77.0	23 - 140	
OCDD	12200			D	13C-OCDD	85.6	17 - 157	D
2,3,7,8-TCDF	66.1				13C-2,3,7,8-TCDF	90.7	24 - 169	
1,2,3,7,8-PeCDF	90.1				13C-1,2,3,7,8-PeCDF	91.8	24 - 185	
2,3,4,7,8-PeCDF	50.8				13C-2,3,4,7,8-PeCDF	92.2	21 - 178	
1,2,3,4,7,8-HxCDF	193				13C-1,2,3,4,7,8-HxCDF	90.3	26 - 152	
1,2,3,6,7,8-HxCDF	53.2				13C-1,2,3,6,7,8-HxCDF	89.6	26 - 123	
2,3,4,6,7,8-HxCDF	15.6				13C-2,3,4,6,7,8-HxCDF	88.5	28 - 136	
1,2,3,7,8,9-HxCDF	12.5				13C-1,2,3,7,8,9-HxCDF	84.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	205				13C-1,2,3,4,6,7,8-HpCDF	81.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	45.5				13C-1,2,3,4,7,8,9-HpCDF	83.5	26 - 138	
OCDF	755				13C-OCDF	81.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	171	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
TEQMinWHO2005Dioxin      71.7

<b>TOTALS</b>			
Total TCDD	12.5		16.5
Total PeCDD	30.2		31.7
Total HxCDD	206		208
Total HpCDD	1460		
Total TCDF	250		253
Total PeCDF	305		
Total HxCDF	473		477
Total HpCDF	727		

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: USMPDI-041SC-A-15-15.7-210427** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2104304-04      Date Received: 30-Apr-2021 9:03
Project: GascoSiltronic: US Moorings	Sample Size: 17.7 g	QC Batch: B1E0057      Date Extracted: 08-May-2021 8:49
Date Collected: 27-Apr-2021 14:16	% Solids: 57.7	Date Analyzed : 14-May-21 21:17 Column: ZB-DIOXIN 17-May-21 23:08 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		1.47		IS 13C-2,3,7,8-TCDD	83.8	25 - 164	
1,2,3,7,8-PeCDD	4.36				13C-1,2,3,7,8-PeCDD	84.9	25 - 181	
1,2,3,4,7,8-HxCDD	8.24				13C-1,2,3,4,7,8-HxCDD	63.0	32 - 141	
1,2,3,6,7,8-HxCDD	32.8				13C-1,2,3,6,7,8-HxCDD	71.8	28 - 130	
1,2,3,7,8,9-HxCDD	15.8				13C-1,2,3,7,8,9-HxCDD	72.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	1070				13C-1,2,3,4,6,7,8-HpCDD	83.5	23 - 140	
OCDD	23500			D	13C-OCDD	88.3	17 - 157	D
2,3,7,8-TCDF	180				13C-2,3,7,8-TCDF	80.1	24 - 169	
1,2,3,7,8-PeCDF	299				13C-1,2,3,7,8-PeCDF	84.2	24 - 185	
2,3,4,7,8-PeCDF	152				13C-2,3,4,7,8-PeCDF	94.1	21 - 178	
1,2,3,4,7,8-HxCDF	484				13C-1,2,3,4,7,8-HxCDF	78.6	26 - 152	
1,2,3,6,7,8-HxCDF	120				13C-1,2,3,6,7,8-HxCDF	81.3	26 - 123	
2,3,4,6,7,8-HxCDF	30.6				13C-2,3,4,6,7,8-HxCDF	81.6	28 - 136	
1,2,3,7,8,9-HxCDF	25.3				13C-1,2,3,7,8,9-HxCDF	79.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	409				13C-1,2,3,4,6,7,8-HpCDF	79.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	88.6				13C-1,2,3,4,7,8,9-HpCDF	91.3	26 - 138	
OCDF	1210				13C-OCDF	90.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	162	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
TEQMinWHO2005Dioxin      172

<b>TOTALS</b>		
Total TCDD	18.7	23.7
Total PeCDD	46.3	49.5
Total HxCDD	321	
Total HpCDD	2740	
Total TCDF	559	562
Total PeCDF	841	842
Total HxCDF	1190	
Total HpCDF	1620	

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)
MDL	Method Detection Limit
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
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
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	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-26
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	1980678
New Hampshire Environmental Accreditation Program	207720
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-016
Pennsylvania Department of Environmental Protection	017
Texas Commission on Environmental Quality	T104704189-21-12
Vermont Department of Health	VT-4042
Virginia Department of General Services	10769
Washington Department of Ecology	C584
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
Polychlorinated Dibenzodioxins in Ambient Air by GC/HRMS	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
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613/1613B
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	EPA 537.1
Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	EPA 533
Perfluorooctanesulfonate (PFOS) and Perfluorooctanoate (PFOA) - Method for Unfiltered Samples Using Solid Phase Extraction and Liquid Chromatography/Mass Spectrometry	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**

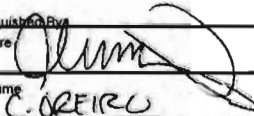
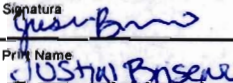
2104304 4.1°C  
 2104304

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

**Project:** GascoSiltronic: US Moorings  
**Client:** NW Natural

**COC ID:** VISTA-20210427-154339  
**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	USMPDI-033SC-A-14-15-210427	N	SE	04/27/2021	10:49	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
002	USMPDI-033SC-A-15-15-5-210427	N	SE	04/27/2021	10:49	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
003	USMPDI-041SC-A-14-15-210427	N	SE	04/27/2021	14:16	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
004	USMPDI-041SC-A-15-15-7-210427	N	SE	04/27/2021	14:16	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C

Comment:					
Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature 	Signature 	Signature	Signature	Signature	Signature
Print Name C. OREIRO	Print Name JUSTIN BENSEN	Print Name	Print Name	Print Name	Print Name
Company AQ	Company VAL	Company	Company	Company	Company
Date/Time 4/29/21 0815	Date/Time 04/30/21 0903	Date/Time	Date/Time	Date/Time	Date/Time




# Sample Log-In Checklist


 Page # 6 of 1

 Vista Work Order #: 2104303 2104304

 TAT STD

<b>Samples Arrival:</b>	<b>Date/Time:</b> 04/30/21 0903	<b>Initials:</b> 	<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"/> GLS	<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"/> Techni Ice
		<input type="checkbox"/> Dry Ice	<input type="checkbox"/> None
<b>Temp °C:</b> 4.2 (uncorrected)	<b>Probe used:</b> Y / <input checked="" type="checkbox"/> N		<b>Thermometer ID:</b> T2-4
<b>Temp °C:</b> 4.1 (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>-</u> Trk # <u>773591709889</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	
Chain of Custody / Sample Documentation Present?	<input 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> 04/30/21 11:32	<b>Initials:</b> 	<b>Location:</b> WR-2
			<b>Shelf/Rack:</b> H-6
COC Anomaly/Sample Acceptance Form completed?			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

Comments:

# CoC/Label Reconciliation Report WO# 2104304

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2104304-01	A USMPDI-033SC-A-14-15-2104 27	001	27-Apr-21 10:49	Amber Glass, 120 mL	Solid	
2104304-02	A USMPDI-033SC-A-15-15.5-210 427	002	27-Apr-21 10:49	Amber Glass, 120 mL	Solid	
2104304-03	A USMPDI-041SC-A-14-15-2104 27	003	27-Apr-21 14:16	Amber Glass, 120 mL	Solid	
2104304-04	A USMPDI-041SC-A-15-15.7-210 427	004	27-Apr-21 14:16	Amber Glass, 120 mL	Solid	

Checkmarks indicate that information on the COC reconciled with the sample label.  
Any discrepancies are noted in the following columns.

	Yes	No	NA	Comments:
Sample Container Intact?	✓			
Sample Custody Seals Intact?		✓	✓	
Adequate Sample Volume?	✓			
Container Type Appropriate for Analysis(es)	✓			

Preservation Documented: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>    Trizma    NH<sub>4</sub>CH<sub>3</sub>CO<sub>2</sub>    None    Other

All

Verified by/Date:  04/30/21

## **EXTRACTION INFORMATION**

Process Sheet  
**Workorder: 2104304**

Prep Expiration: 2022-04-27  
 Client: Anchor QEA, LLC

**Workorder Due: 28-May-21 00:00**

TAT: 28

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

Prep Batch: BIE0057

Prep Data Entered: DG 05/14/21  
Date and Initials

Initial Sequence: SIE0033

LabSampleID	A/B	Prep Rec	Spike Rec	ClientSampleID	Date Received	Location	Comments
2104304-01	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-033SC-A-14-15-210427	30-Apr-21 09:03	WR-2 H-6	
2104304-02	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-033SC-A-15-15.5-210427	30-Apr-21 09:03	WR-2 H-6	
2104304-03	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-041SC-A-14-15-210427	30-Apr-21 09:03	WR-2 H-6	
2104304-04	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-041SC-A-15-15.7-210427	30-Apr-21 09:03	WR-2 H-6	

**WO Comments: 1613: 10g dw**

Pre-Prep Check Out: AO 05/03/21  
 Pre-Prep Check In: OF 05/03/21

Prep Check Out: DG 05/03/21  
 Prep Check In: DG 05/03/21

Prep Reconciled Initials/Date: AO 05/03/21  
 Spike Reconciled Initials/Date: DG 05/03/21  
 VialBoxID: Yan by Mark

PREPARATION BENCH SHEET

Matrix: Solid

B1E0057

Chemist: DG

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 08-May-21 08:49

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
A1	B1E0057-BLK1	NA	(10.00)	DG 05/08/21	DG RP 05/10/21	NA	DG 05/10/21	DG 05/10/21	DG 05/14/21	DG CID 05/14/21
A2	B1E0057-BS1	NA	(10.00)							
A3	2104304-01	16.90	17.07				colorful resins	w/colored		
A4	2104304-02	16.04	16.34							
A5	2104304-03	17.05	17.21							
A6	2104304-04	17.34	17.66							
A7	2104305-01	17.11	17.20							
A8	2104305-02	17.23	17.57							
A9	2104305-03	15.49	15.57							
A10	2104305-04	15.52	15.61							
A11	2104305-05	16.80	16.89							
B1	2104305-06	16.24	16.56							
B2	2104305-07	17.01	17.49							
B3	2104305-08	15.97	16.04							
B5	2104305-09	18.64	18.71							

IS: 2100101, 10ul (V4)	Cycle Time	APP: SEFUN SOX SDS	Check Out: DG 05/08/21	Soxhlet Siphoned Chemist/Date: DG 05/08/21	Notes:
NS: 20F0107, 10ul (V4)	Start Date/Time: 05/08/21 13:29	SOLV: Toluene	Check In: DG 05/08/21	Vial Transfer Chemist/Date: DG 05/14/21	
PS/CRS: 20H2501, 10ul (V3)	Stop Date/Time: 05/08/21 05:50	Other: NA	Balance ID: HRMS-8		
RS: 20H2502, 10ul (V3)		Final Volume(s): 20ul C14			

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
- 7 = Soxhlet approached dryness

PREPARATION BENCH SHEET

Matrix: Solid

B1E0057

Chemist: DG

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 08-May-21 08:49

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
B7	2104305-10	17.67	17.71	DG 05/08/21	DG RE 05/10/21	NA	DG 05/10/21	DG 05/10/21	DG 05/14/21	DG 05/14/21
B8	2104305-11	17.41	17.52	↓	↓	↓	↓	↓	↓	↓
B9	2104305-12	16.80	16.95	↓	↓	↓	↓	↓	↓	↓
B10	2105019-01	27.43	27.87	↓	↓	↓	↓	↓	↓	↓

IS: 21C0101, 10µl (V4)	Cycle Time	APP: SEFUN (SOX) SDS	Check Out: DG 05/08/21	Soxhlet Siphoned Chemist/Date: DG 05/08/21	Notes: (A) Colored column w/ colored reagents. DG 05/14/21
NS: 20F0107, 10µl (V4)	Start Date/Time: 05/08/21 1329	SOLV: Toluene	Check In: DG 05/08/21	Vial Transfer Chemist/Date: DG 05/14/21	
PS/CRS: 20H2501, 10µl (V3)	Stop Date/Time: 05/09/21 0550	Other: N/A	Balance ID: HRMS-8		
RS: 20H 2502, 10µl (V3)		Final Volume(s): 20µl C14			
Diox/F PCB PAH PEST PBDE HCB					

- 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
  - 7 = Soxhlet approached dryness

Batch: B1E0057

Matrix: Solid

LabNumber	WetWeight Initial (g)	% Solids (Extraction Solids)	DryWeight Initial (g)	Final (uL)	Extracted	Ext By	Spike	SpikeAmount (uL)	ClientMatrix	Analysis
2104304-01 ✓	17.07 ✓	59.16115	10.0988	20 ✓	08-May-21 08:49 ✓	DG ✓			Sediment	1613 Full List
2104304-02 ✓	16.34 ✓	62.33767	10.1860	20 ✓	08-May-21 08:49 ✓	DG ✓			Sediment	1613 Full List
2104304-03 ✓	17.21 ✓	58.64865	10.0934	20 ✓	08-May-21 08:49 ✓	DG ✓			Sediment	1613 Full List
2104304-04 ✓	17.66 ✓	57.66234	10.1832	20 ✓	08-May-21 08:49 ✓	DG ✓			Sediment	1613 Full List
2104305-01 ✓	17.2 ✓	58.43137	10.0502	20 ✓	08-May-21 08:49 ✓	DG ✓			Sediment	1613 Full List
2104305-02 ✓	17.57 ✓	58.02469	10.1949	20 ✓	08-May-21 08:49 ✓	DG ✓			Sediment	1613 Full List
2104305-03 ✓	15.57 ✓	64.57143	10.0538	20 ✓	08-May-21 08:49 ✓	DG ✓			Sediment	1613 Full List
2104305-04 ✓	15.61 ✓	64.44008	10.0591	20 ✓	08-May-21 08:49 ✓	DG ✓			Sediment	1613 Full List
2104305-05 ✓	16.89 ✓	59.52381	10.0536	20 ✓	08-May-21 08:49 ✓	DG ✓			Sediment	1613 Full List
2104305-06 ✓	16.56 ✓	61.56317	10.1949	20 ✓	08-May-21 08:49 ✓	DG ✓			Sediment	1613 Full List
2104305-07 ✓	17.49 ✓	58.8	10.2841	20 ✓	08-May-21 08:49 ✓	DG ✓			Sediment	1613 Full List
2104305-08 ✓	16.04 ✓	62.6132	10.0432	20 ✓	08-May-21 08:49 ✓	DG ✓			Sediment	1613 Full List
2104305-09 ✓	18.71 ✓	53.64583	10.0371	20 ✓	08-May-21 08:49 ✓	DG ✓			Sediment	1613 Full List
2104305-10 ✓	17.71 ✓	56.59341	10.0227	20 ✓	08-May-21 08:49 ✓	DG ✓			Sediment	1613 Full List
2104305-11 ✓	17.52 ✓	57.42574	10.0610	20 ✓	08-May-21 08:49 ✓	DG ✓			Sediment	1613 Full List
2104305-12 ✓	16.95 ✓	59.52381	10.0893	20 ✓	08-May-21 08:49 ✓	DG ✓			Sediment	1613 Full List
2105019-01 ✓	27.87 ✓	36.4532	10.1595	20 ✓	08-May-21 08:49 ✓	DG ✓			Soil	1613 Full List
B1E0057-BLK1 ✓	10 ✓			20 ✓	08-May-21 08:49 ✓	DG ✓				QC
B1E0057-BS1 ✓	10 ✓			20 ✓	08-May-21 08:49 ✓	DG ✓	20F0107 ✓	10 ✓		QC

All bolded data on report verified against written benchsheet by (initial/date) DG 05/14/21

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B1E0008

Analyst: OF ✓	Test Code: %Moist/%Solids	Data Entry Verified by: (Initial and Date) <u>OF 05/04/21</u>
Analyte:	Units: %	
Oven ID: <u>01</u> 02	Dried at 110°C±5°C	

Inst HRMS-09 ✓      Date/Time IN: 5/3/21 11:28      Date/Time OUT: 5/4/21 6:40 ✓

Particle Size	SampID	SampType	Initial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
			Pan Tare Wt. (gms)	OF 05/03/21 ✓										
	2104304-01	Sample	1.2500 ✓		5.7800 ✓	3.9300 ✓	2.6800	59.16	Mud ✓	N/A	N/A	N/A	N/A	X ✓
	2104304-02	Sample	1.2500 ✓		4.3300 ✓	3.1700 ✓	1.9200	62.34	Mud ✓	N/A	N/A	N/A	N/A	X ✓
	2104304-03	Sample	1.2400 ✓		4.9400 ✓	3.4100 ✓	2.1700	58.65	Mud ✓	N/A	N/A	N/A	N/A	X ✓
	2104304-04	Sample	1.2500 ✓		5.1000 ✓	3.4700 ✓	2.2200	57.66	Mud ✓	N/A	N/A	N/A	N/A	X ✓

\*Sample homogenized in sample container unless otherwise noted.



Percent Moisture/ Percent Solids

D2216-90

BATCH ID B1E0008

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

Inst **HRMS-09**

Date/Time IN: **05/03/21** 11:28  
 Date/Time OUT: **05/04/21** 06:40

		Initial and Date:		OF 05/03/21			OF 05/04/21			OF 05/03/21			OF 05/03/21	
Particle Size	SampID	SampType	Pan	Wet Pan and Sample	Dry Pan and Sample	Dry Sample	%Solids	Visual	Cl-	pH	pH	Acid	Sample	
			Tare Wt. (gms)	Weight (g)	Weight (g)	Weight (g)	RawVal	Inspection	Before	After	Added	Homogenized*		
	2104304-01	A	1.25	5.78	3.93	N/A	N/A	MMD	N/A	N/A			X	
	2104304-02	A	1.25	4.33	3.17								X	
	2104304-03	A	1.24	4.94	3.41	↓	↓	↓					X	
	2104304-04	A	1.25	5.10	3.47	↓	↓	↓					X	

\*Sample homogenized in sample container unless otherwise noted.

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-4.qld

Last Altered: Saturday, May 15, 2021 15:31:25 Pacific Daylight Time

Printed: Saturday, May 15, 2021 15:31:36 Pacific Daylight Time

*Handwritten:* H.S. 5.15.2021

*Handwritten:* C7 05/25/2021

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07

Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210514D3\_4, Date: 14-May-2021, Time: 18:11:02, ID: B1E0057-BLK1 Method Blank 10, Description: Method Blank, Task: ST210514D3-1

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD			NO	1.05	10.000					0.129	
2 1,2,3,7,8-PeCDD			NO	0.881	10.000					0.160	
3 1,2,3,4,7,8-HxCDD			NO	1.14	10.000					0.269	
4 1,2,3,6,7,8-HxCDD			NO	1.01	10.000					0.262	
5 1,2,3,7,8,9-HxCDD			NO	1.02	10.000					0.250	
6 1,2,3,4,6,7,8-HpCDD			NO	1.07	10.000					0.239	
7 OCDD			NO	1.00	10.000					0.736	
8 2,3,7,8-TCDF			NO	0.864	10.000					0.102	
9 1,2,3,7,8-PeCDF			NO	0.948	10.000					0.127	
10 2,3,4,7,8-PeCDF			NO	1.04	10.000					0.0965	
11 1,2,3,4,7,8-HxCDF			NO	1.04	10.000					0.102	
12 1,2,3,6,7,8-HxCDF			NO	1.07	10.000					0.100	
13 2,3,4,6,7,8-HxCDF			NO	1.12	10.000					0.125	
14 1,2,3,7,8,9-HxCDF			NO	1.10	10.000					0.155	
15 1,2,3,4,6,7,8-HpCDF			NO	1.16	10.000					0.0863	
16 1,2,3,4,7,8,9-HpCDF			NO	1.19	10.000					0.138	
17 OCDF			NO	0.909	10.000					0.447	
18 13C-2,3,7,8-TCDD	5.25e4	0.71	NO	1.15	10.000	27.00	1.025	173.81	86.9	0.657	
19 13C-1,2,3,7,8-PeCDD	4.72e4	0.61	NO	0.887	10.000	31.17	1.183	201.82	101	0.877	
20 13C-1,2,3,4,7,8-HxCDD	3.21e4	1.20	NO	0.645	10.000	34.63	1.015	156.23	78.1	1.38	
21 13C-1,2,3,6,7,8-HxCDD	3.42e4	1.29	NO	0.717	10.000	34.77	1.019	149.55	74.8	1.25	
22 13C-1,2,3,7,8,9-HxCDD	3.34e4	1.26	NO	0.714	10.000	35.07	1.028	146.66	73.3	1.25	
23 13C-1,2,3,4,6,7,8-HpCDD	2.69e4	1.07	NO	0.583	10.000	38.50	1.128	144.67	72.3	1.43	
24 13C-OCDD	3.69e4	0.86	NO	0.451	10.000	42.17	1.236	256.73	64.2	0.936	
25 13C-2,3,7,8-TCDF	1.09e5	0.72	NO	1.09	10.000	26.42	1.003	193.42	96.7	0.611	
26 13C-1,2,3,7,8-PeCDF	7.72e4	1.56	NO	0.805	10.000	30.02	1.140	185.69	92.8	1.51	
27 13C-2,3,4,7,8-PeCDF	8.58e4	1.62	NO	0.792	10.000	30.99	1.176	209.70	105	1.54	
28 13C-1,2,3,4,7,8-HxCDF	6.09e4	0.49	NO	0.997	10.000	33.62	0.985	191.60	95.8	1.64	
29 13C-1,2,3,6,7,8-HxCDF	6.30e4	0.50	NO	1.03	10.000	33.77	0.990	192.14	96.1	1.59	
30 13C-2,3,4,6,7,8-HxCDF	5.42e4	0.51	NO	0.940	10.000	34.51	1.011	181.00	90.5	1.74	
31 13C-1,2,3,7,8,9-HxCDF	4.75e4	0.51	NO	0.852	10.000	35.61	1.043	174.69	87.3	1.92	

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-4.qld

Last Altered: Saturday, May 15, 2021 15:31:25 Pacific Daylight Time

Printed: Saturday, May 15, 2021 15:31:36 Pacific Daylight Time

Name: 210514D3\_4, Date: 14-May-2021, Time: 18:11:02, ID: B1E0057-BLK1 Method Blank 10, Description: Method Blank, Task: ST210514D3-1

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
32 13C-1,2,3,4,6,7,8-HpCDF	3.85e4	0.43	NO	0.727	10.000	37.27	1.092	166.13	83.1	1.48	
33 13C-1,2,3,4,7,8,9-HpCDF	3.22e4	0.45	NO	0.608	10.000	39.26	1.150	166.13	83.1	1.77	
34 13C-OCDF	5.80e4	0.86	NO	0.631	10.000	42.48	1.245	288.18	72.0	1.99	
35 37Cl-2,3,7,8-TCDD	7.61e4			2.22	10.000	27.01	1.026	130.12	163	0.115	
36 13C-1,2,3,4-TCDD	5.27e4	0.77	NO	1.00	10.000	26.34	1.000	200.00	100	0.752	
37 13C-1,2,3,4-TCDF	1.03e5	0.76	NO	1.00	10.000	25.12	1.000	200.00	100	0.666	
38 13C-1,2,3,4,6,9-HxCDF	6.38e4	0.51	NO	1.00	10.000	34.13	1.000	200.00	100	1.64	
39 Total Tetra-Dioxins				1.05	10.000					0.0754	
40 Total Penta-Dioxins				0.881	10.000					0.0408	
41 Total Hexa-Dioxins				1.01	10.000					0.157	
42 Total Hepta-Dioxins				1.07	10.000					0.143	
43 Total Tetra-Furans				0.864	10.000					0.0438	
44 1st Func. Penta-Furans				0.948	10.000					0.0225	
45 Total Penta-Furans				0.948	10.000					0.0417	
46 Total Hexa-Furans				1.12	10.000					0.0704	
47 Total Hepta-Furans				1.16	10.000					0.0524	

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-4.qld  
Last Altered: Saturday, May 15, 2021 15:31:25 Pacific Daylight Time  
Printed: Saturday, May 15, 2021 15:31:36 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07  
Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210514D3\_4, Date: 14-May-2021, Time: 18:11:02, ID: B1E0057-BLK1 Method Blank 10, Description: Method Blank, Task: ST210514D3-1

**Tetra-Dioxins**

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

**Penta-Dioxins**

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

**Hexa-Dioxins**

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

**Hepta-Dioxins**

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

**Tetra-Furans**

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

**Penta-Furans function 1**

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

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-4.qtd  
Last Altered: Saturday, May 15, 2021 15:31:25 Pacific Daylight Time  
Printed: Saturday, May 15, 2021 15:31:36 Pacific Daylight Time

Name: 210514D3\_4, Date: 14-May-2021, Time: 18:11:02, ID: B1E0057-BLK1 Method Blank 10, Description: Method Blank, Task: ST210514D3-1

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
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Hexa-Furans

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

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
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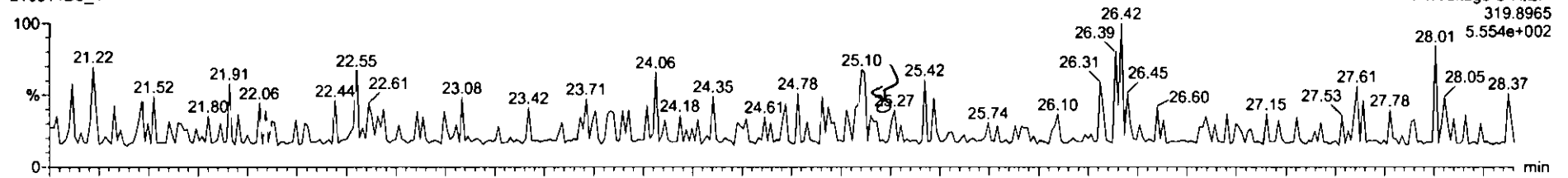
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Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

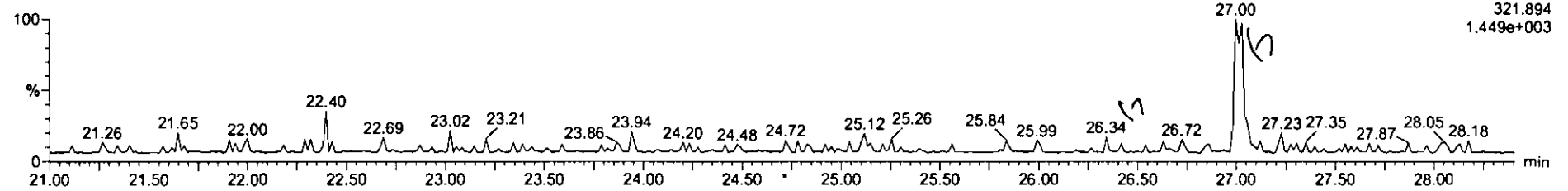
Name: 210514D3\_4, Date: 14-May-2021, Time: 18:11:02, ID: B1E0057-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

210514D3\_4

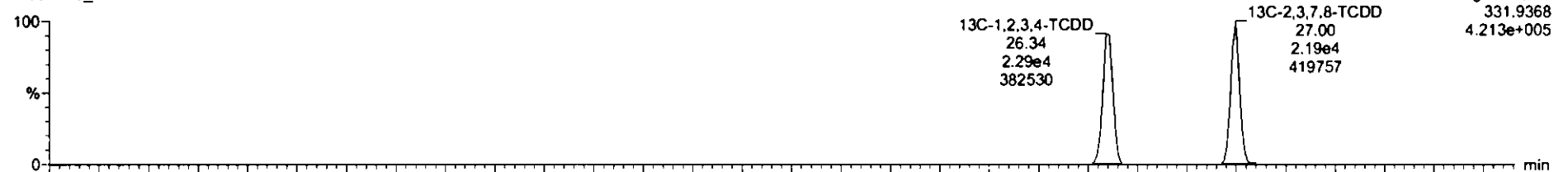


210514D3\_4

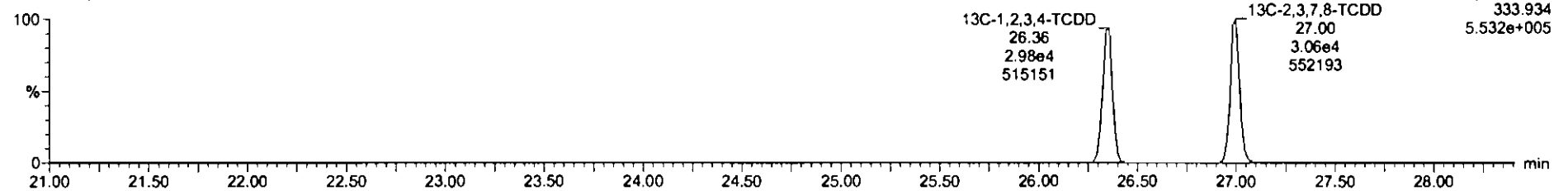


13C-2,3,7,8-TCDD

210514D3\_4



210514D3\_4



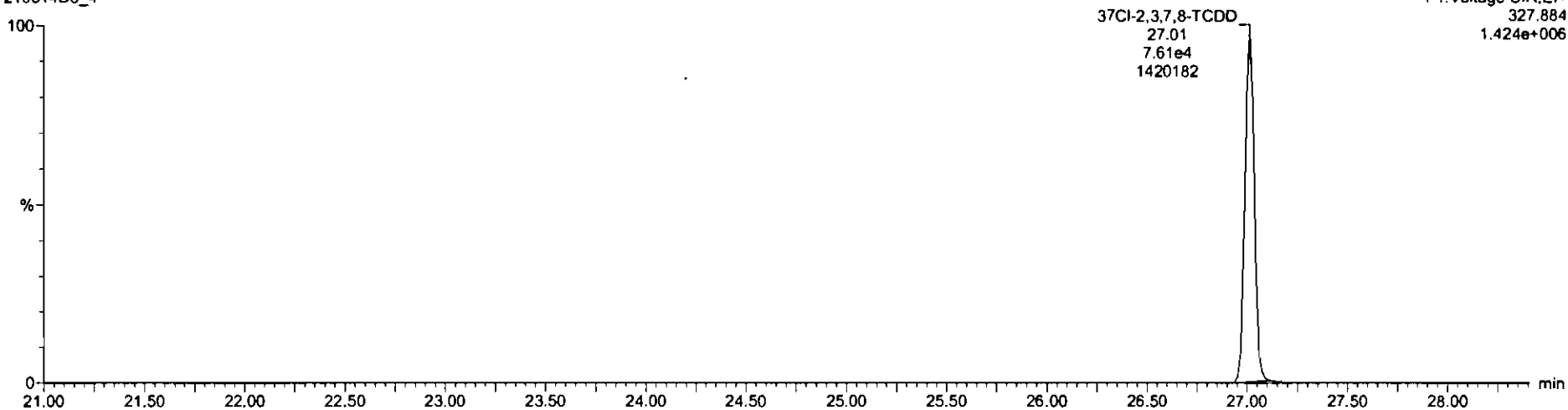
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Name: 210514D3\_4, Date: 14-May-2021, Time: 18:11:02, ID: B1E0057-BLK1 Method Blank 10, Description: Method Blank

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

210514D3\_4

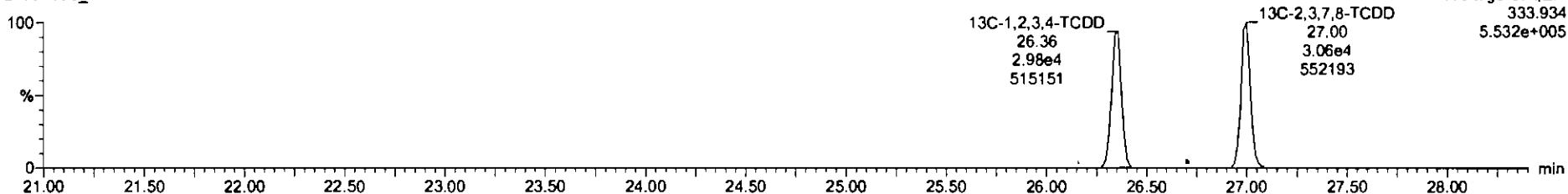


13C-1,2,3,4-TCDD

210514D3\_4



210514D3\_4





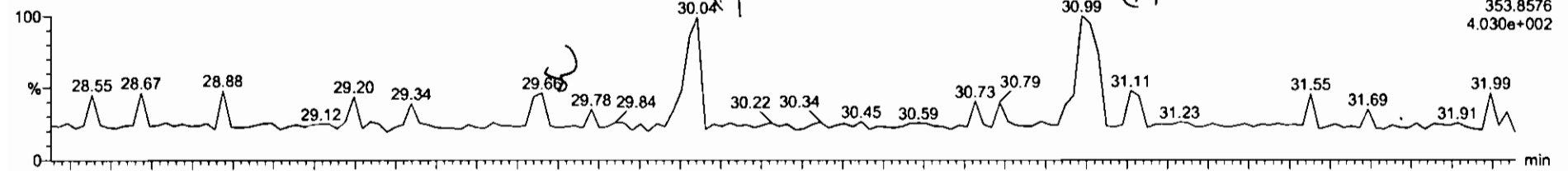
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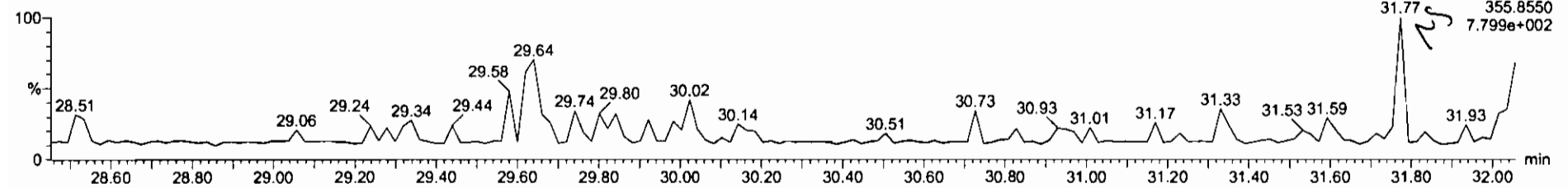
Name: 210514D3\_4, Date: 14-May-2021, Time: 18:11:02, ID: B1E0057-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD

210514D3\_4



210514D3\_4

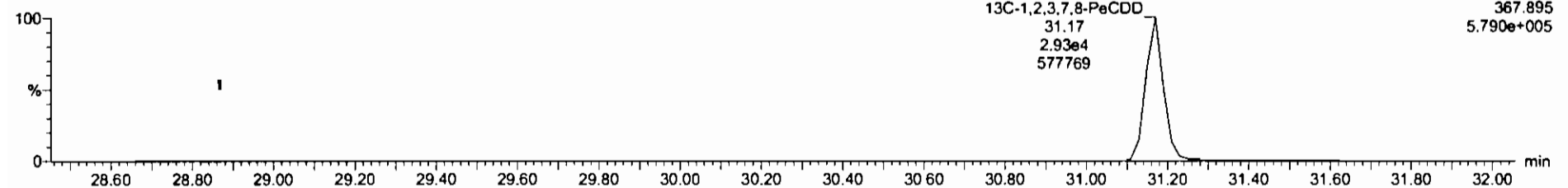


13C-1,2,3,7,8-PeCDD

210514D3\_4



210514D3\_4



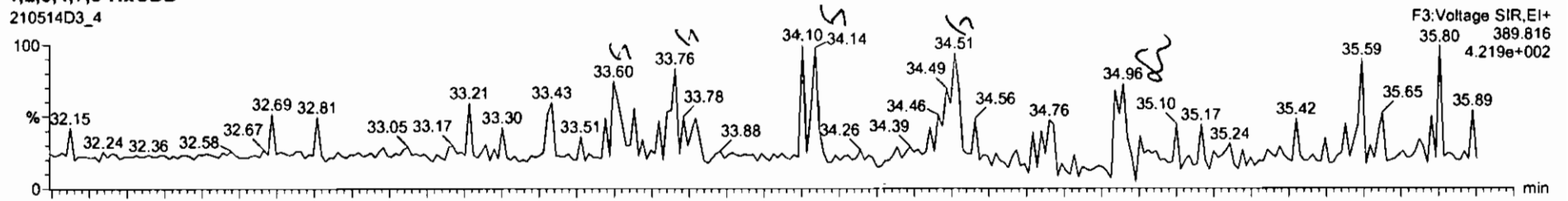
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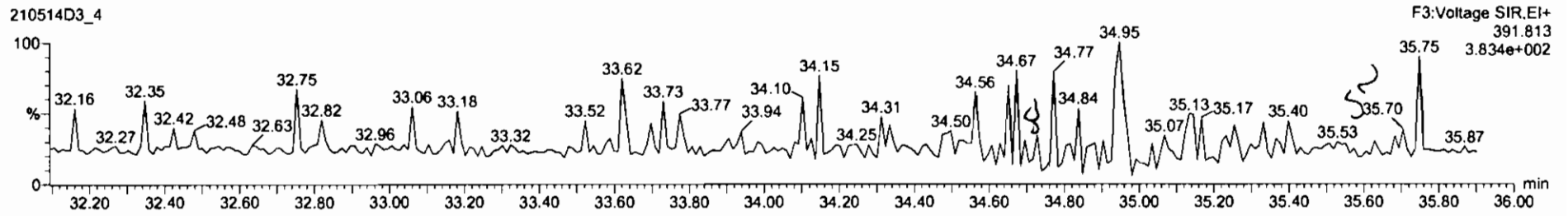
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1,2,3,4,7,8-HxCDD

210514D3\_4

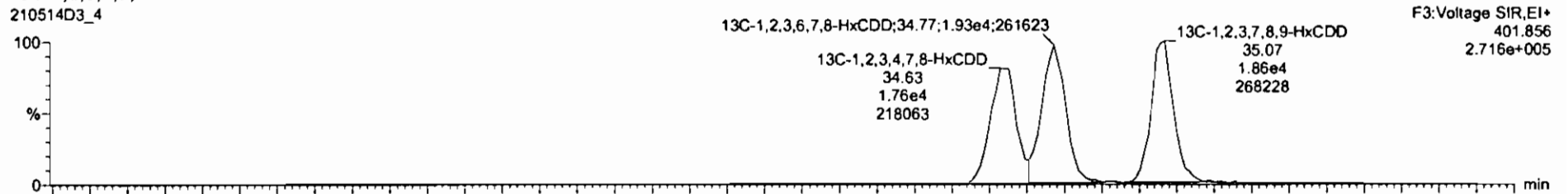


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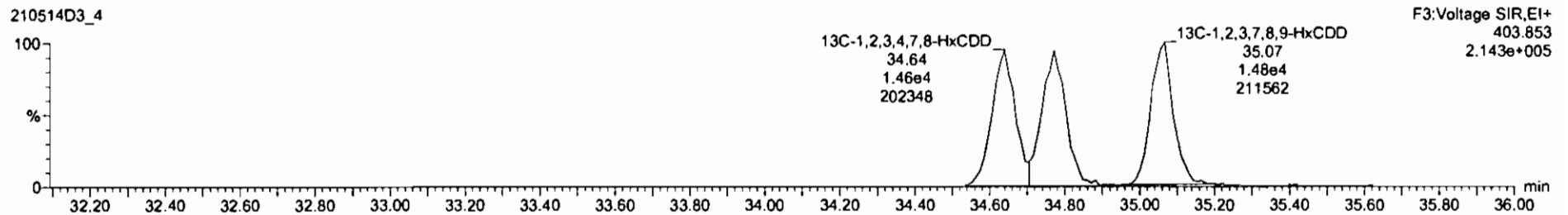


13C-1,2,3,4,7,8-HxCDD

210514D3\_4



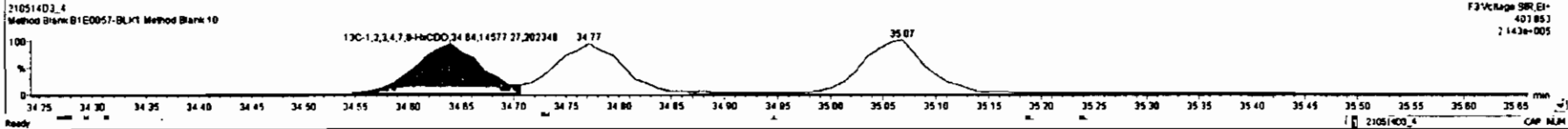
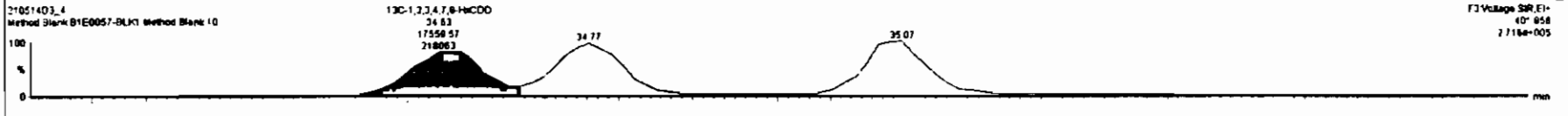
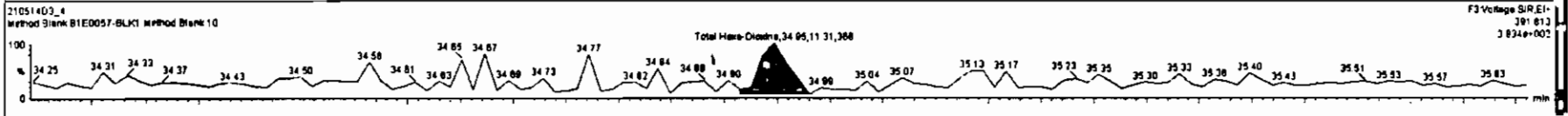
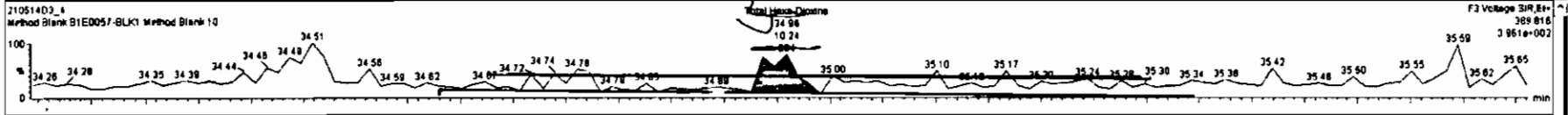
210514D3\_4



21051403\_4 - B1E0057-BLK1 Method Blank 10 - Method Blank

Name	Resp	RA	rvy	RFW	wAve	RT	RRT	Conc	%Rec	DL	EMPC
40 Total Para-Dioxins				0.88	10.000					0.0408	
41 Total Hexa-Chlorins				1.81	10.800			0.000		0.167	0.110
42 Total Hepta-Chlorins				1.87	10.000					0.143	
43 Total Tetra-Furans				0.88	10.000					0.0438	
44 Tot Func Para-Furans				0.95	10.000					0.0225	
45 Total Para-Furans				0.95	10.000					0.0417	
46 Total Hexa-Furans				1.13	10.000					0.0704	

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc
1 Total Hexa-Chlorins	34.98	1.02e1	1.137e1	0.91	YES	0.11011	0.00000



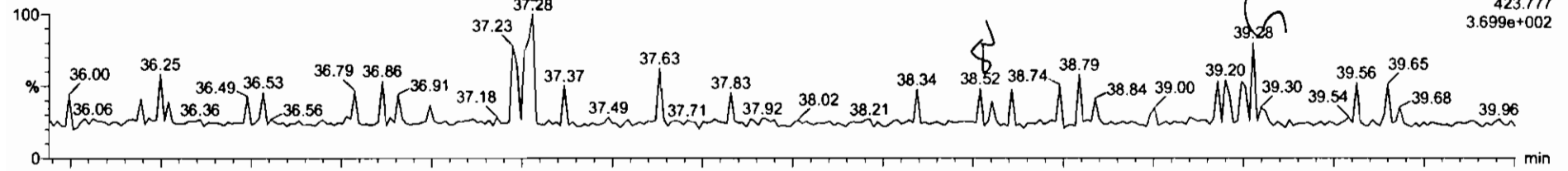
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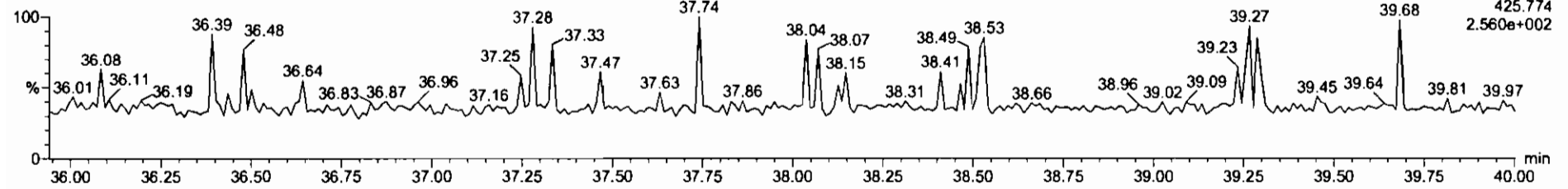
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1,2,3,4,6,7,8-HpCDD

210514D3\_4

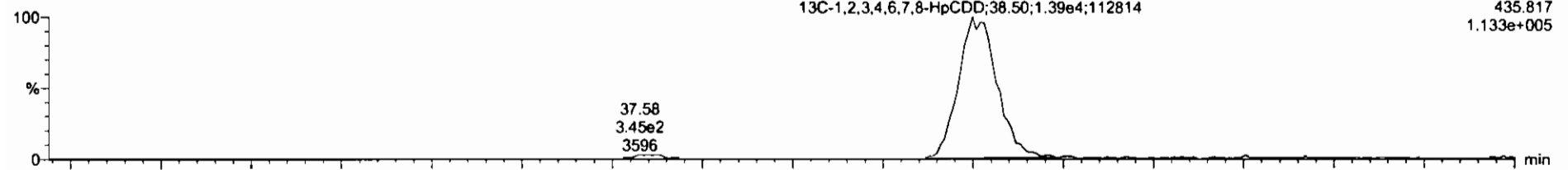


210514D3\_4

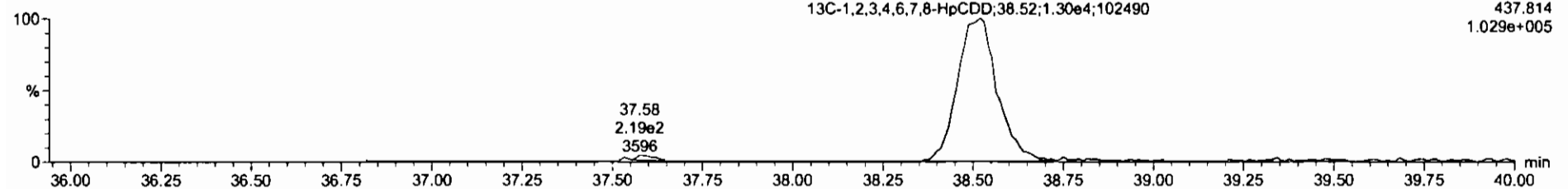


13C-1,2,3,4,6,7,8-HpCDD

210514D3\_4



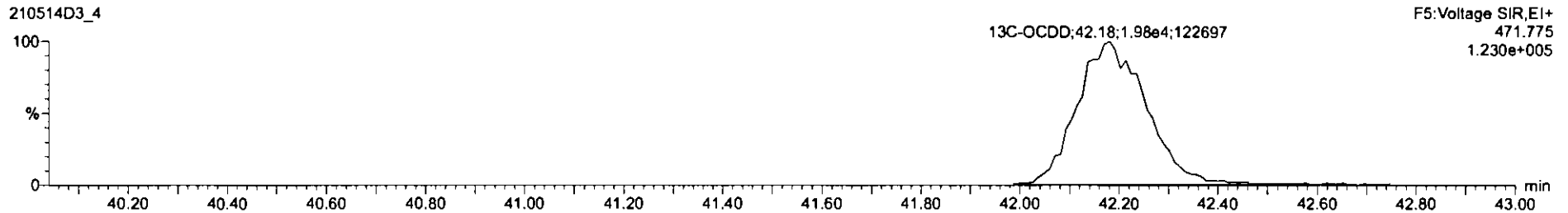
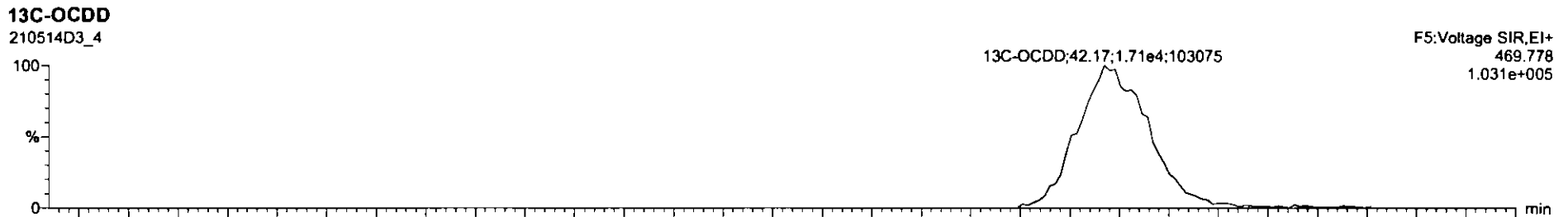
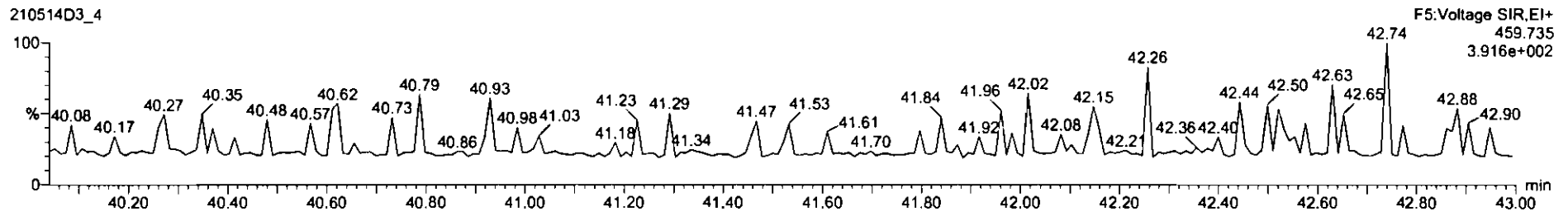
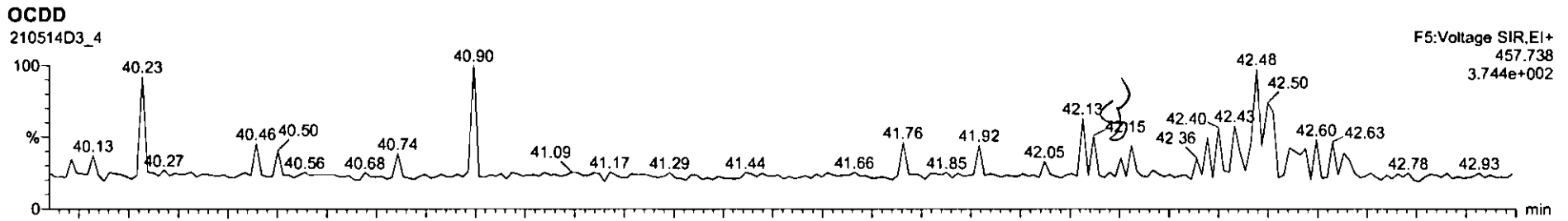
210514D3\_4



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Name: 210514D3\_4, Date: 14-May-2021, Time: 18:11:02, ID: B1E0057-BLK1 Method Blank 10, Description: Method Blank

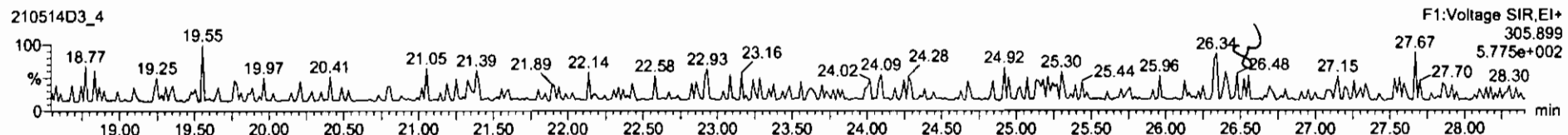
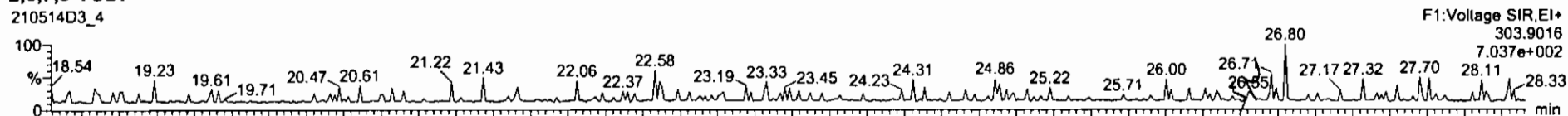


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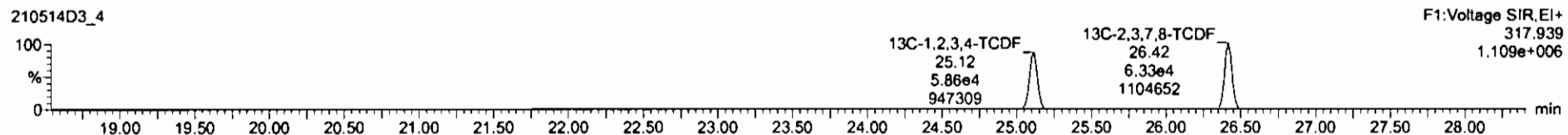
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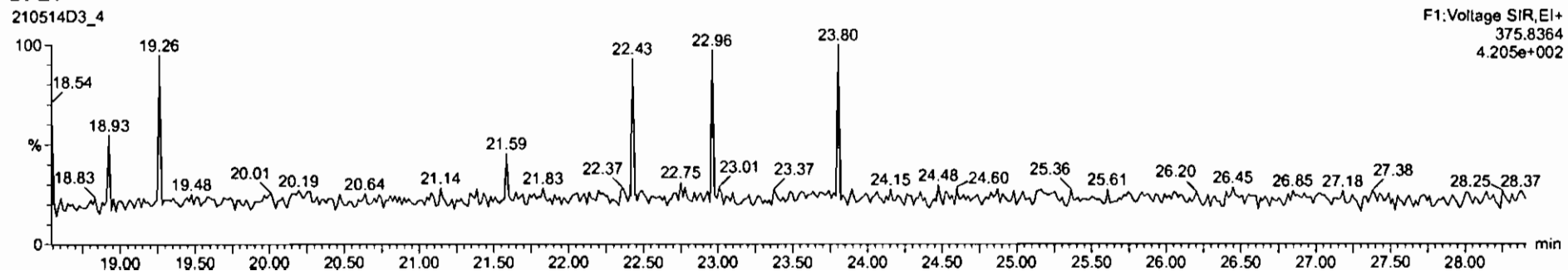
2,3,7,8-TCDF



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



DPE1



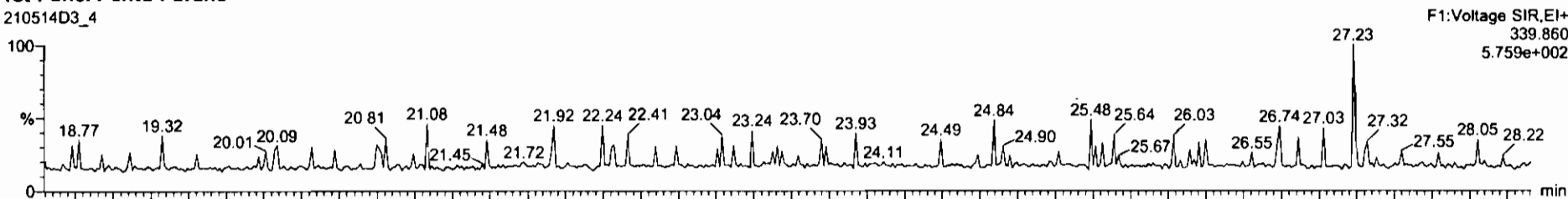
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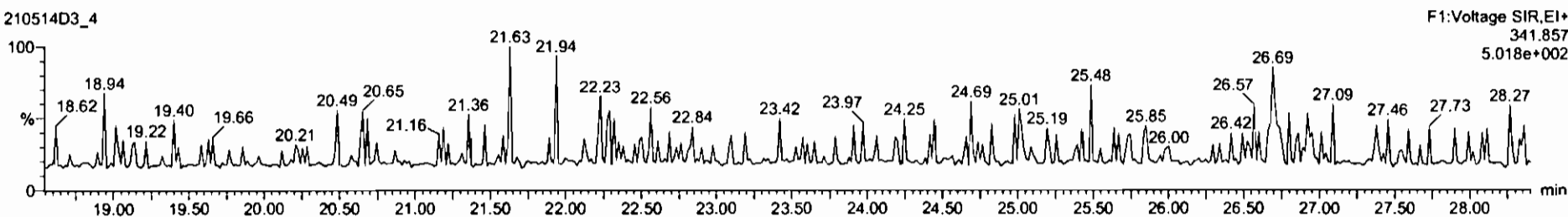
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1st Func. Penta-Furans

210514D3\_4

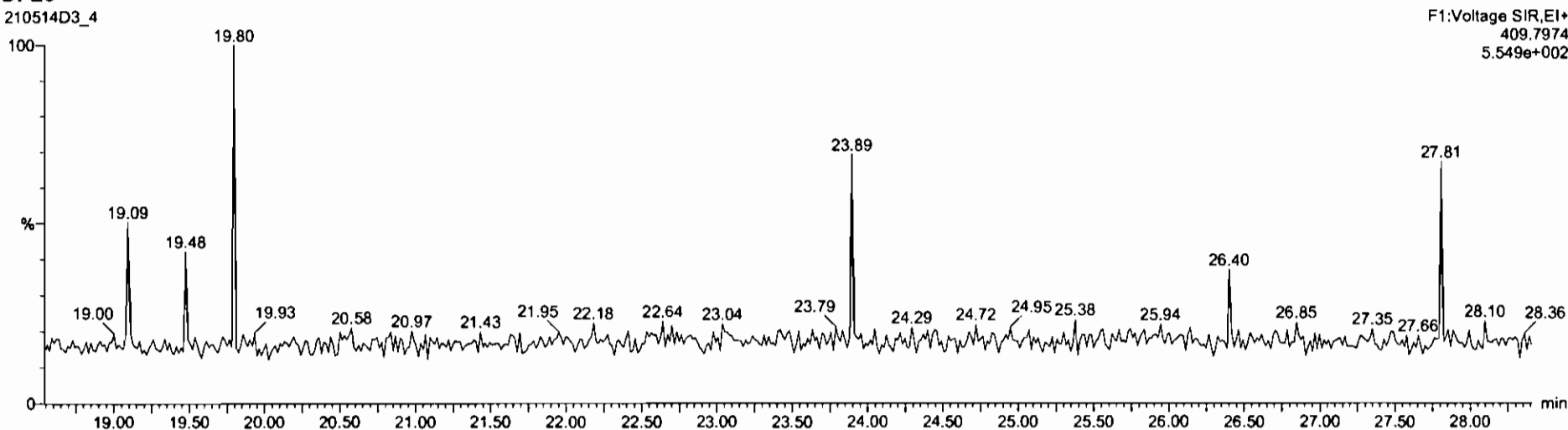


210514D3\_4



DPE6

210514D3\_4

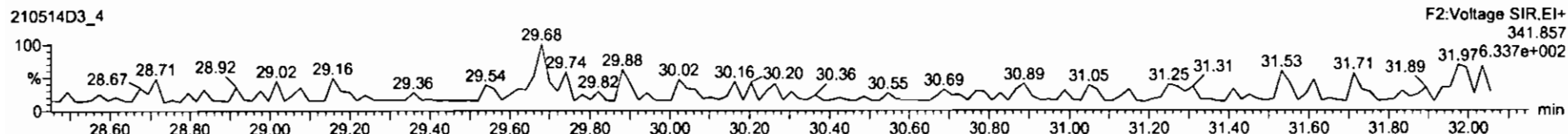
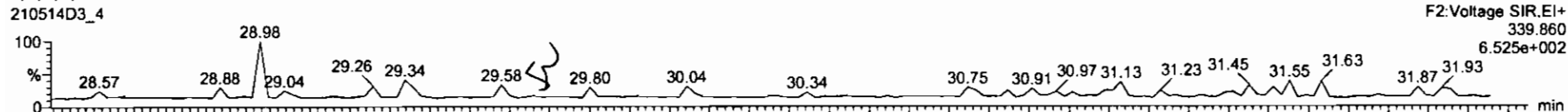


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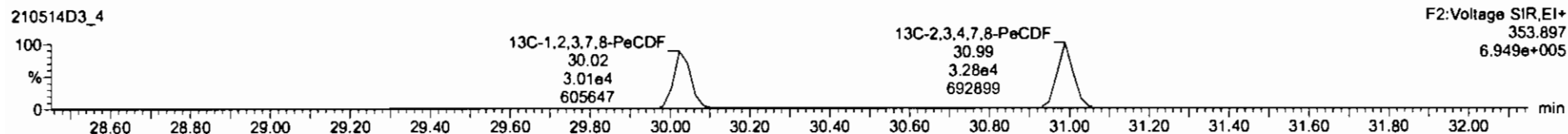
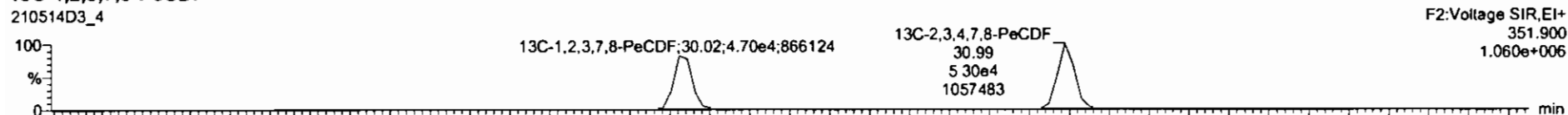
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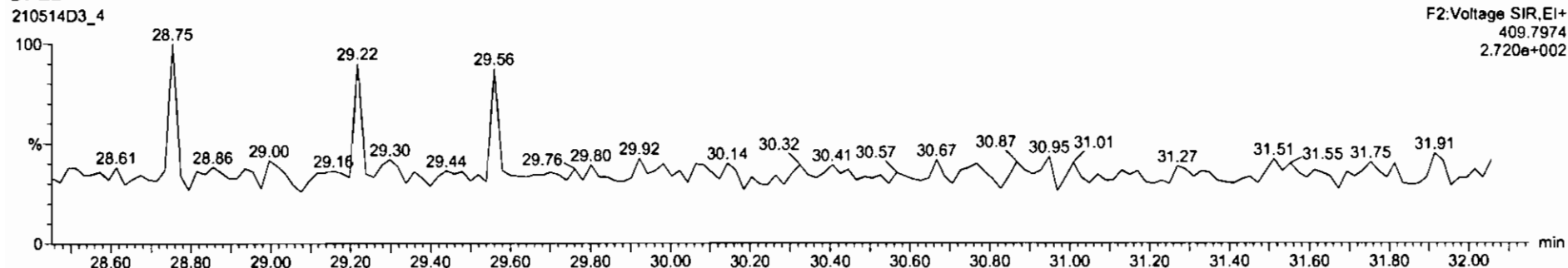
1,2,3,7,8-PeCDF



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



DPE2





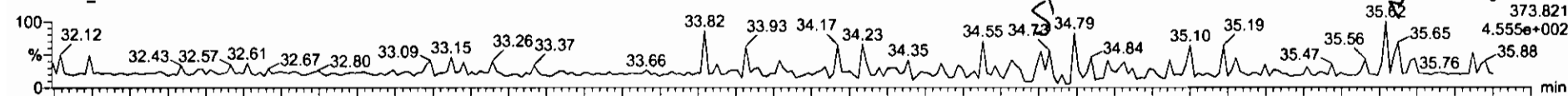
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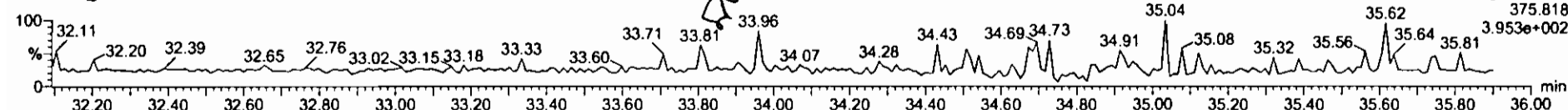
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**1,2,3,4,7,8-HxCDF**

210514D3\_4

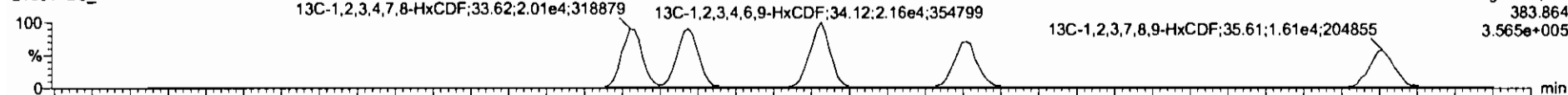


210514D3\_4

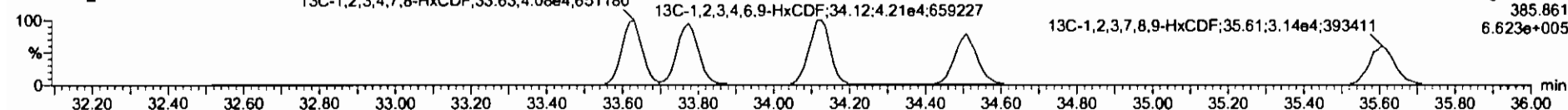


**13C-1,2,3,4,7,8-HxCDF**

210514D3\_4

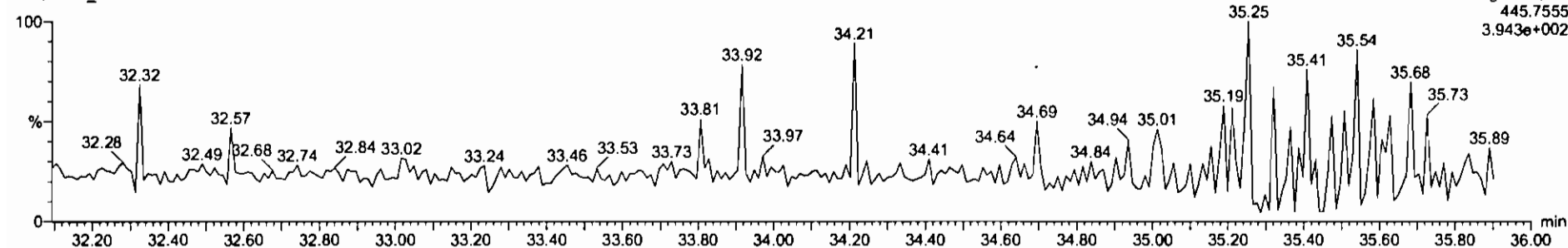


210514D3\_4



**DPE3**

210514D3\_4

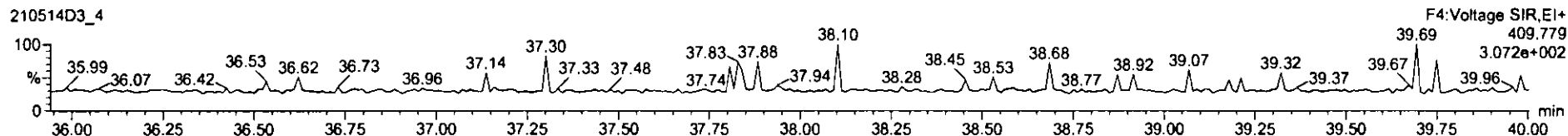
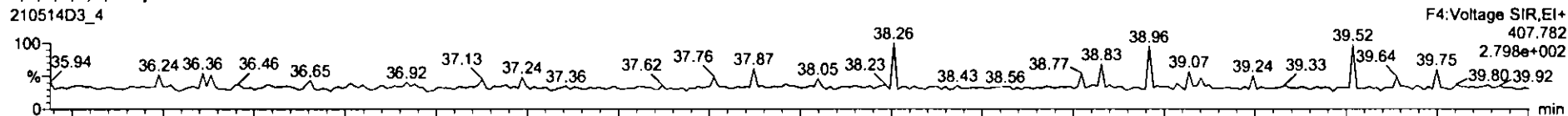


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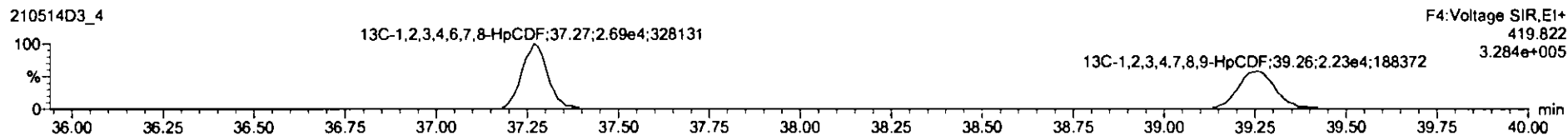
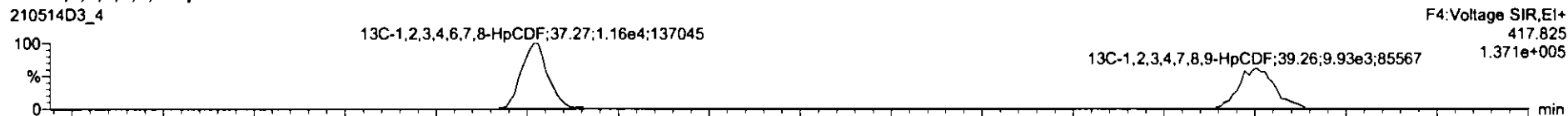
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Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

Name: 210514D3\_4, Date: 14-May-2021, Time: 18:11:02, ID: B1E0057-BLK1 Method Blank 10, Description: Method Blank

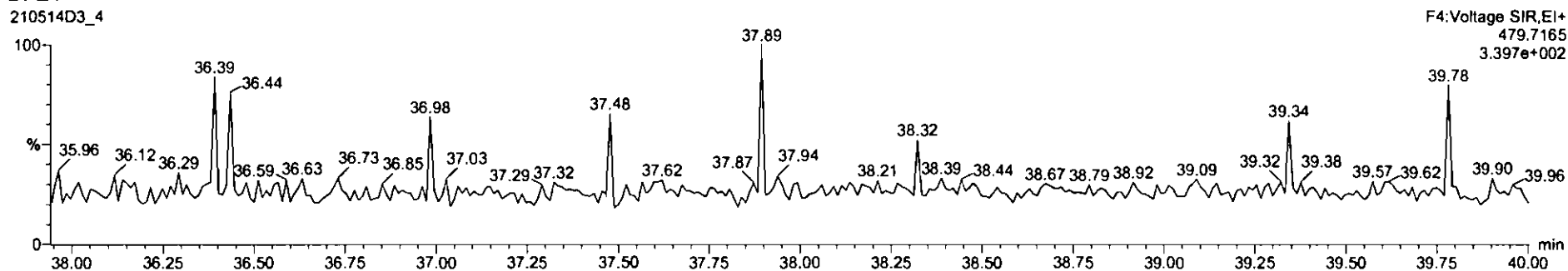
1,2,3,4,6,7,8-HpCDF



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



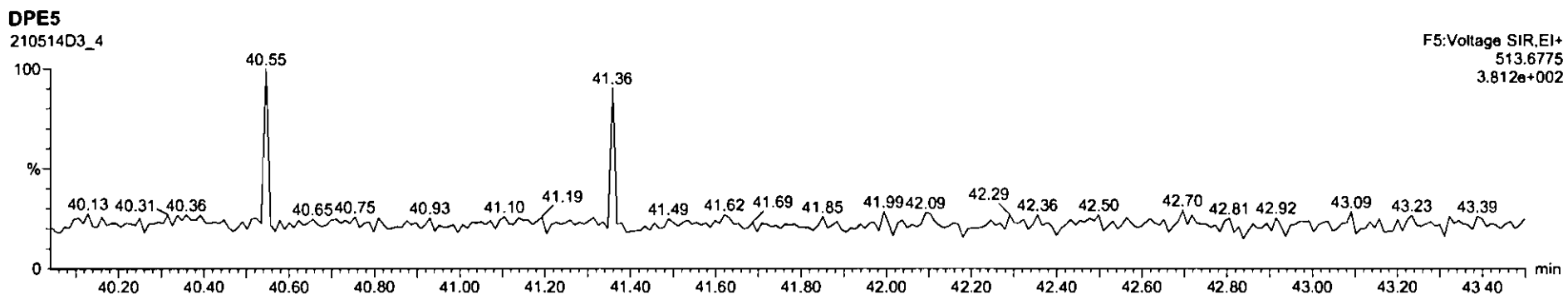
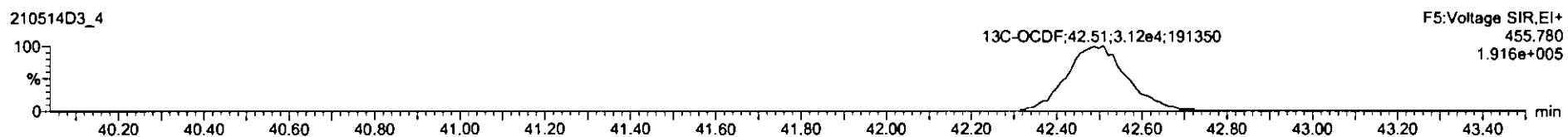
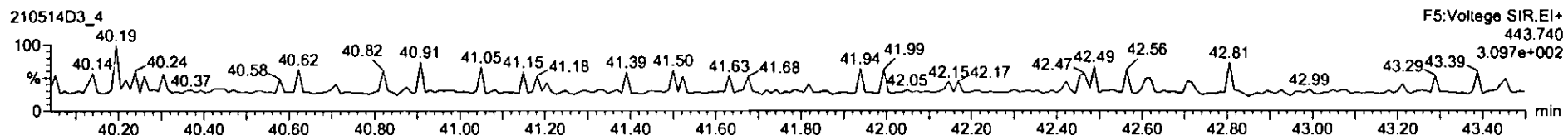
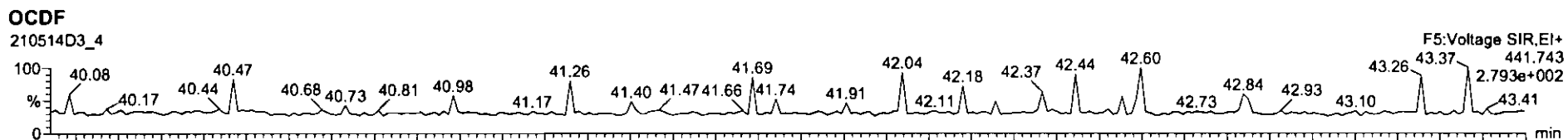
DPE4



Dataset: Untitled

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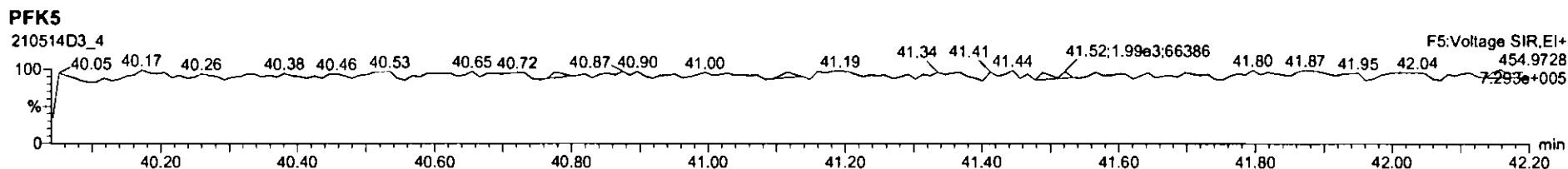
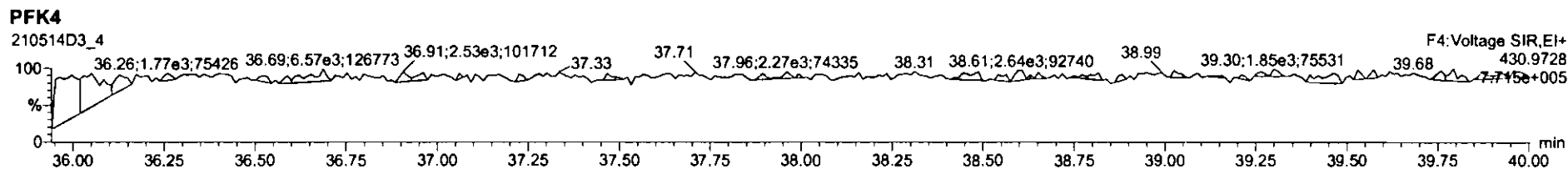
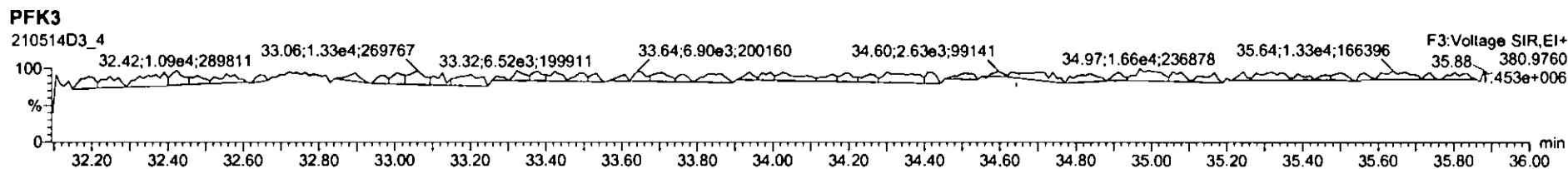
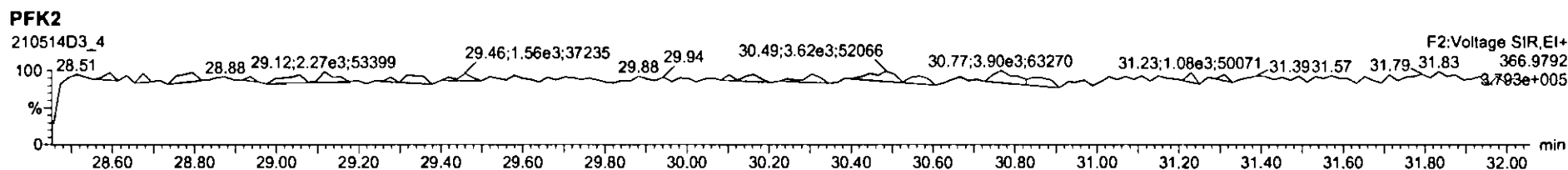
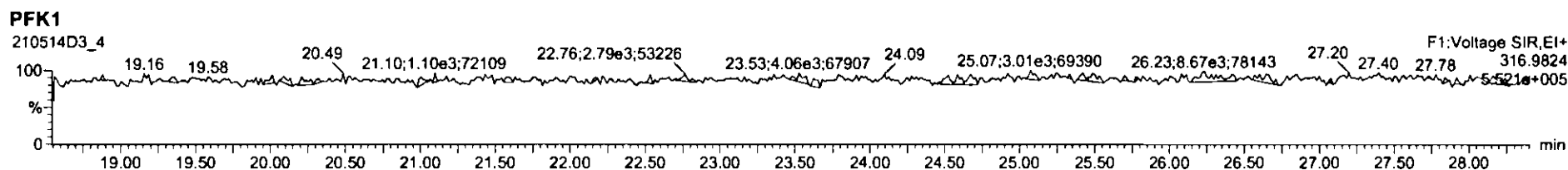
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Dataset: Untitled

Last Altered: Saturday, May 15, 2021 08:34:47 Pacific Daylight Time  
Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

Name: 210514D3\_4, Date: 14-May-2021, Time: 18:11:02, ID: B1E0057-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG7.PRO\Results\210514D3\210514D3-2.qld

Last Altered: Friday, May 14, 2021 17:26:37 Pacific Daylight Time  
Printed: Saturday, May 15, 2021 15:27:33 Pacific Daylight Time

*12-5-15-2021 05/25/2021*

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07  
Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210514D3\_2, Date: 14-May-2021, Time: 16:38:38, ID: B1E0057-BS1 OPR 10, Description: OPR, Task: ST210514D3-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	7.17e3	0.78	NO	1.05	10.000	27.01	1.001	22.303		0.145	22.3
2	1,2,3,7,8-PeCDD	2.46e4	0.60	NO	0.881	10.000	31.19	1.001	113.76		0.395	114
3	1,2,3,4,7,8-HxCDD	2.15e4	1.27	NO	1.14	10.000	34.65	1.000	112.15		0.869	112
4	1,2,3,6,7,8-HxCDD	2.30e4	1.29	NO	1.01	10.000	34.79	1.001	117.95		0.804	118
5	1,2,3,7,8,9-HxCDD	2.18e4	1.26	NO	1.02	10.000	35.08	1.000	114.54		0.984	115
6	1,2,3,4,6,7,8-HpCDD	1.69e4	1.01	NO	1.07	10.000	38.60	1.001	111.56		1.77	112
7	OCDD	2.15e4	0.89	NO	1.00	10.000	42.16	1.000	212.13		2.16	212
8	2,3,7,8-TCDF	9.80e3	0.74	NO	0.864	10.000	26.43	1.001	20.901		0.130	20.9
9	1,2,3,7,8-PeCDF	4.59e4	1.63	NO	0.948	10.000	30.04	1.000	117.68		0.308	118
10	2,3,4,7,8-PeCDF	5.28e4	1.66	NO	1.04	10.000	31.03	1.001	121.43		0.257	121
11	1,2,3,4,7,8-HxCDF	3.50e4	1.26	NO	1.04	10.000	33.65	1.001	109.76		0.639	110
12	1,2,3,6,7,8-HxCDF	3.79e4	1.25	NO	1.07	10.000	33.79	1.001	107.03		0.582	107
13	2,3,4,6,7,8-HxCDF	3.50e4	1.24	NO	1.12	10.000	34.53	1.001	110.45		0.722	110
14	1,2,3,7,8,9-HxCDF	2.90e4	1.27	NO	1.10	10.000	35.65	1.001	105.13		0.886	105
15	1,2,3,4,6,7,8-HpCDF	2.54e4	1.05	NO	1.16	10.000	37.28	1.000	111.49		1.07	111
16	1,2,3,4,7,8,9-HpCDF	2.13e4	1.02	NO	1.19	10.000	39.32	1.000	111.39		1.78	111
17	OCDF	2.92e4	0.91	NO	0.909	10.000	42.58	1.001	216.97		5.66	217
18	13C-2,3,7,8-TCDD	6.14e4	0.83	NO	1.15	10.000	26.98	1.024	183.48	91.7	0.572	
19	13C-1,2,3,7,8-PeCDD	4.91e4	0.61	NO	0.887	10.000	31.17	1.183	189.43	94.7	0.483	
20	13C-1,2,3,4,7,8-HxCDD	3.36e4	1.23	NO	0.645	10.000	34.64	1.015	147.94	74.0	0.937	
21	13C-1,2,3,6,7,8-HxCDD	3.85e4	1.23	NO	0.717	10.000	34.77	1.019	152.73	76.4	0.844	
22	13C-1,2,3,7,8,9-HxCDD	3.74e4	1.27	NO	0.714	10.000	35.07	1.028	148.80	74.4	0.847	
23	13C-1,2,3,4,6,7,8-HpCDD	2.85e4	1.05	NO	0.583	10.000	38.58	1.130	138.68	69.3	1.42	
24	13C-OCDD	4.05e4	0.89	NO	0.451	10.000	42.15	1.235	255.02	63.8	1.75	
25	13C-2,3,7,8-TCDF	1.09e5	0.74	NO	1.09	10.000	26.42	1.003	186.80	93.4	0.753	
26	13C-1,2,3,7,8-PeCDF	8.22e4	1.63	NO	0.805	10.000	30.04	1.140	191.55	95.8	0.943	
27	13C-2,3,4,7,8-PeCDF	8.38e4	1.53	NO	0.792	10.000	31.01	1.177	198.47	99.2	0.958	
28	13C-1,2,3,4,7,8-HxCDF	6.12e4	0.49	NO	0.997	10.000	33.63	0.985	174.47	87.2	1.10	
29	13C-1,2,3,6,7,8-HxCDF	6.59e4	0.49	NO	1.03	10.000	33.77	0.990	182.19	91.1	1.07	
30	13C-2,3,4,6,7,8-HxCDF	5.67e4	0.51	NO	0.940	10.000	34.51	1.011	171.56	85.8	1.17	
31	13C-1,2,3,7,8,9-HxCDF	5.03e4	0.50	NO	0.852	10.000	35.63	1.044	167.64	83.8	1.29	
32	13C-1,2,3,4,6,7,8-HpCDF	3.92e4	0.41	NO	0.727	10.000	37.28	1.092	153.36	76.7	1.53	

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-2.qld

Last Altered: Friday, May 14, 2021 17:26:37 Pacific Daylight Time  
Printed: Saturday, May 15, 2021 15:27:33 Pacific Daylight Time

Name: 210514D3\_2, Date: 14-May-2021, Time: 16:38:38, ID: B1E0057-BS1 OPR 10, Description: OPR, Task: ST210514D3-1

	Name	Resp	RA	rvy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HpCDF	3.22e4	0.44	NO	0.608	10.000	39.31	1.152	150.27	75.1	1.83	
34	13C-OCDF	5.93e4	0.86	NO	0.631	10.000	42.54	1.247	267.31	66.8	0.782	
35	37Cl-2,3,7,8-TCDD	8.16e4			2.22	10.000	27.01	1.026	125.91	157	0.0933	
36	13C-1,2,3,4-TCDD	5.84e4	0.77	NO	1.00	10.000	26.34	1.000	200.00	100	0.655	
37	13C-1,2,3,4-TCDF	1.07e5	0.73	NO	1.00	10.000	25.12	1.000	200.00	100	0.822	
38	13C-1,2,3,4,6,9-HxCDF	7.04e4	0.51	NO	1.00	10.000	34.13	1.000	200.00	100	1.10	

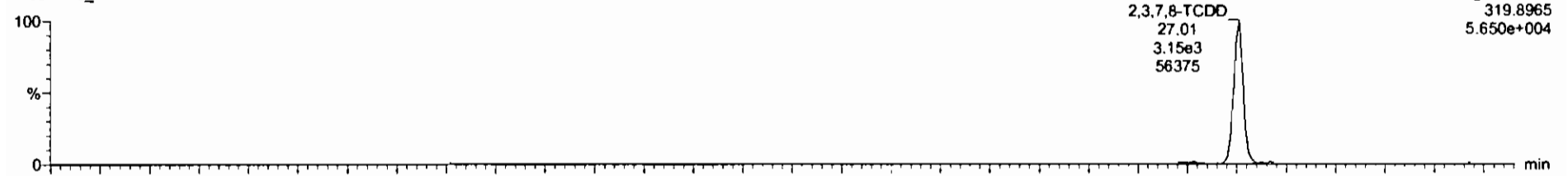
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Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

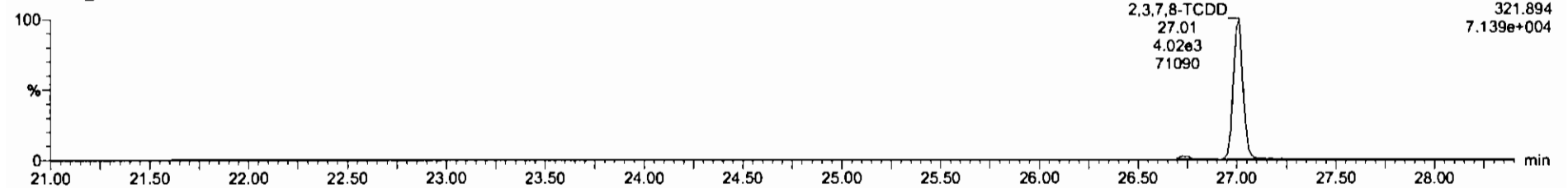
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2,3,7,8-TCDD

210514D3\_2

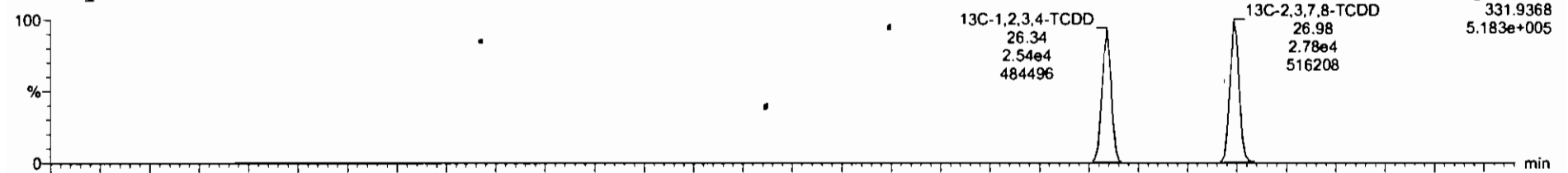


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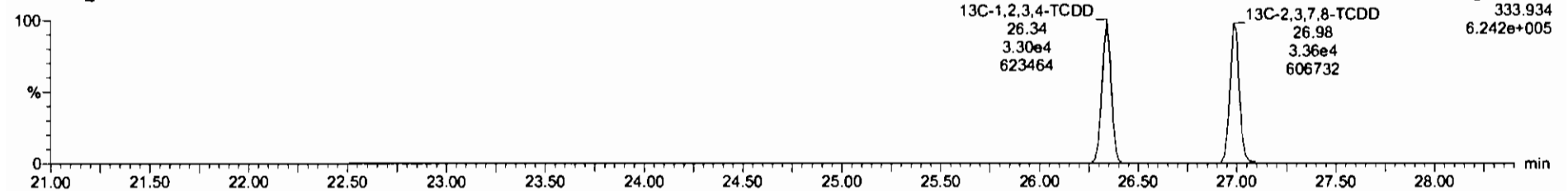


13C-2,3,7,8-TCDD

210514D3\_2



210514D3\_2

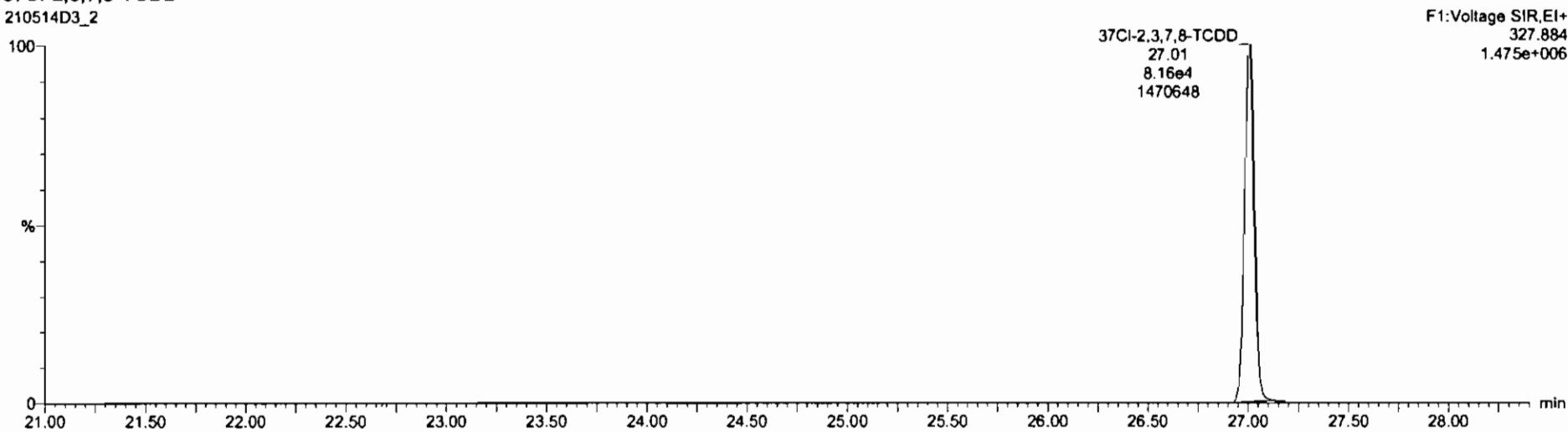


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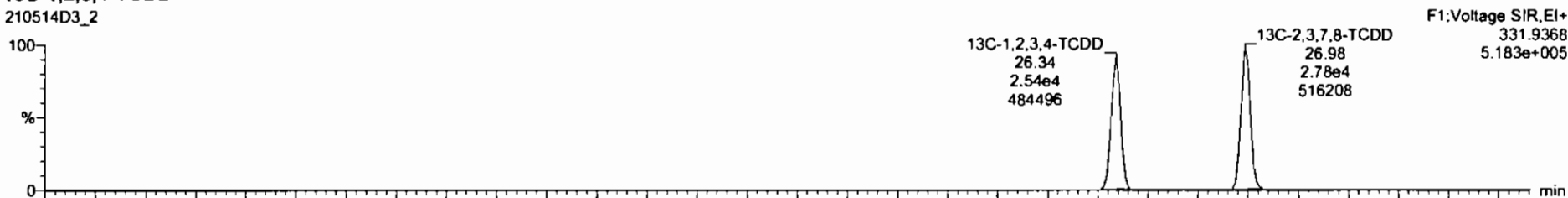
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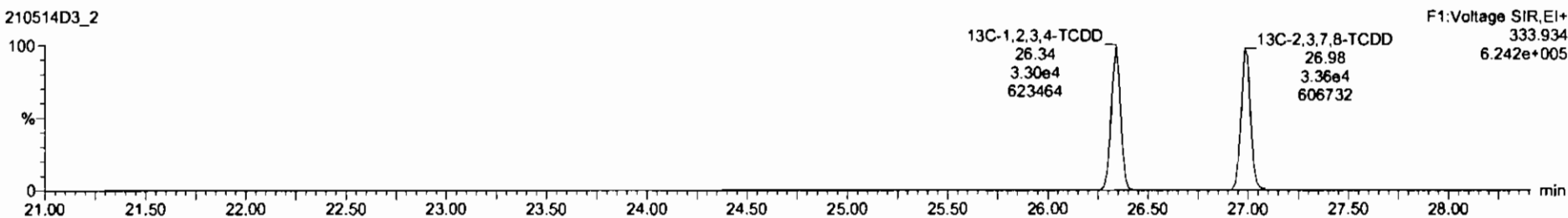
37Cl-2,3,7,8-TCDD  
210514D3\_2



13C-1,2,3,4-TCDD  
210514D3\_2



210514D3\_2





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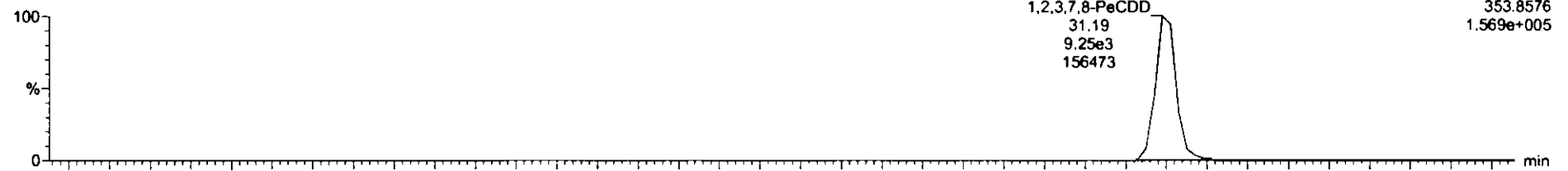
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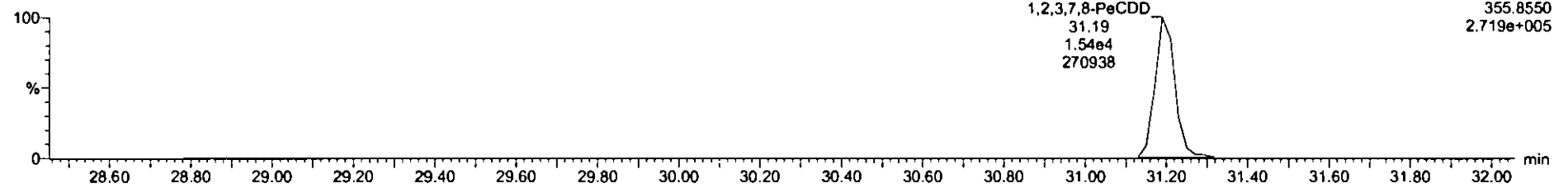
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**1,2,3,7,8-PeCDD**

210514D3\_2

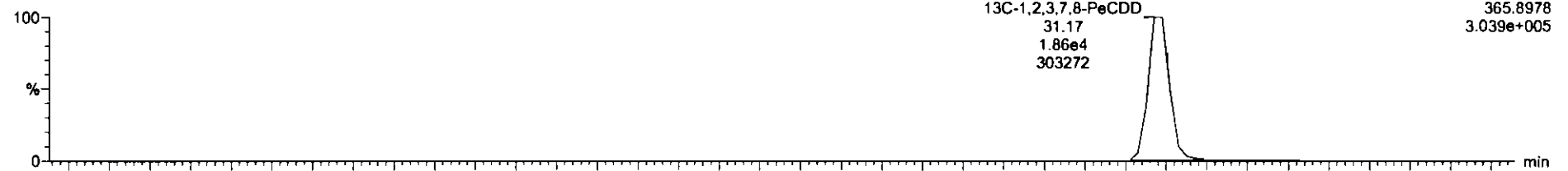


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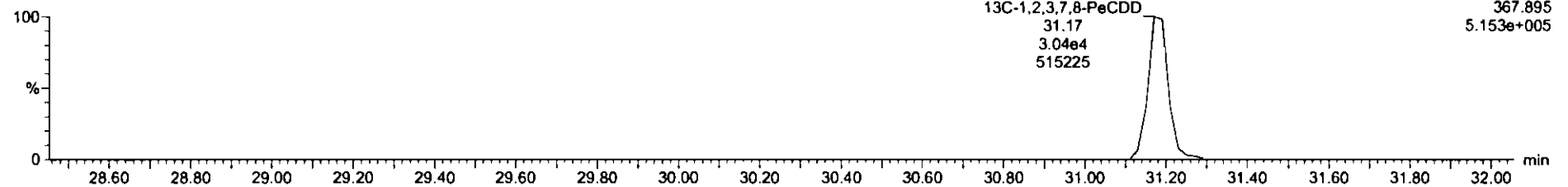


**<sup>13</sup>C-1,2,3,7,8-PeCDD**

210514D3\_2



210514D3\_2



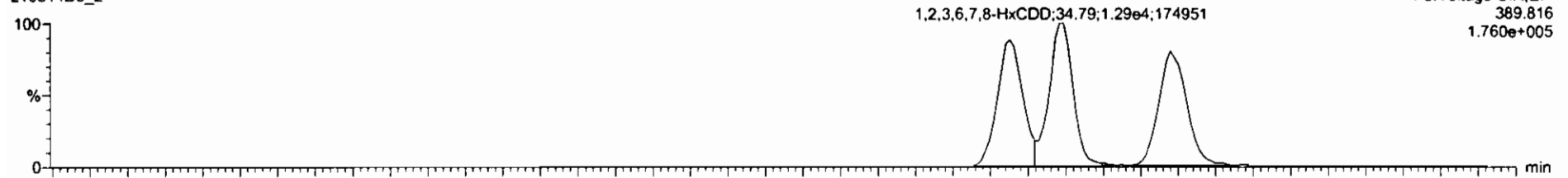
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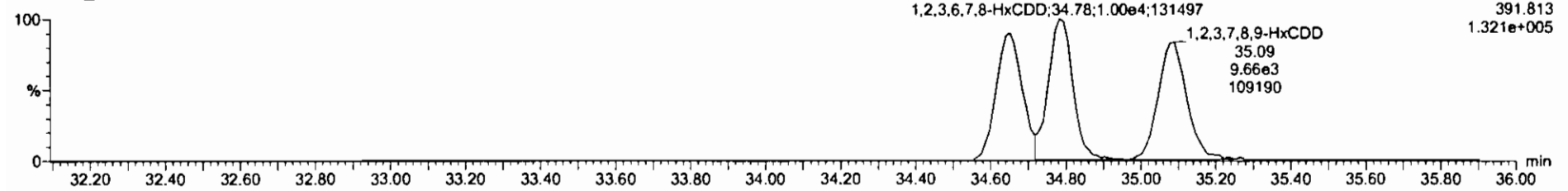
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1,2,3,4,7,8-HxCDD

210514D3\_2



210514D3\_2

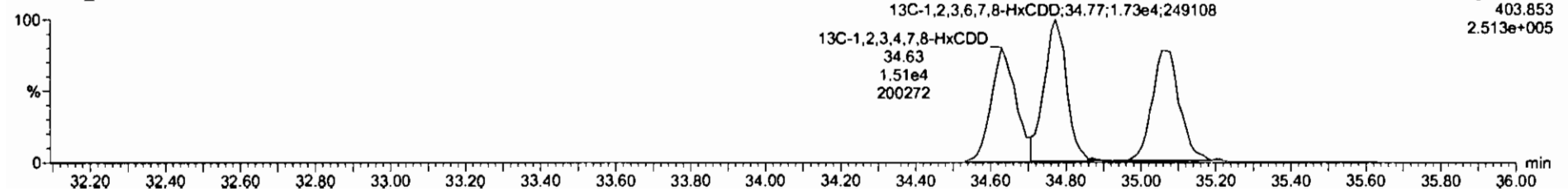


13C-1,2,3,4,7,8-HxCDD

210514D3\_2



210514D3\_2



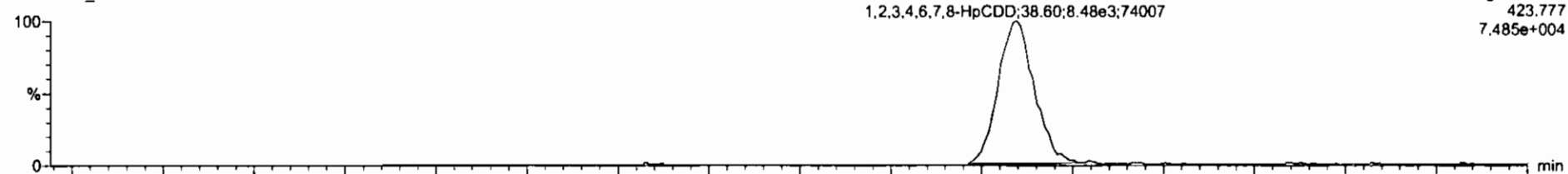
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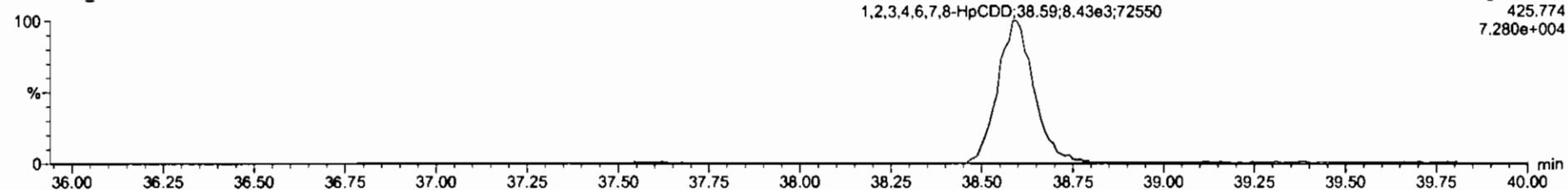
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1,2,3,4,6,7,8-HpCDD

210514D3\_2

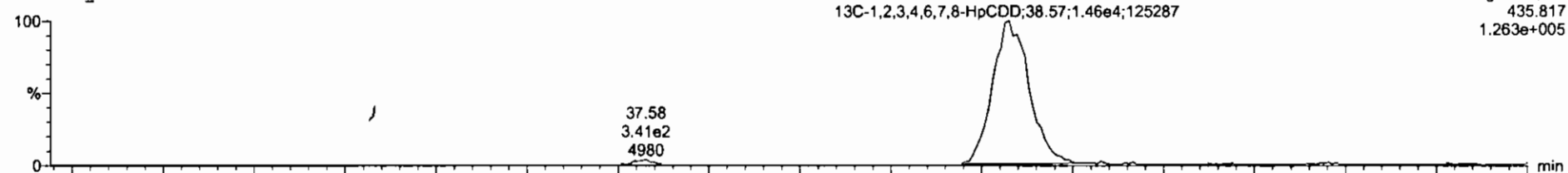


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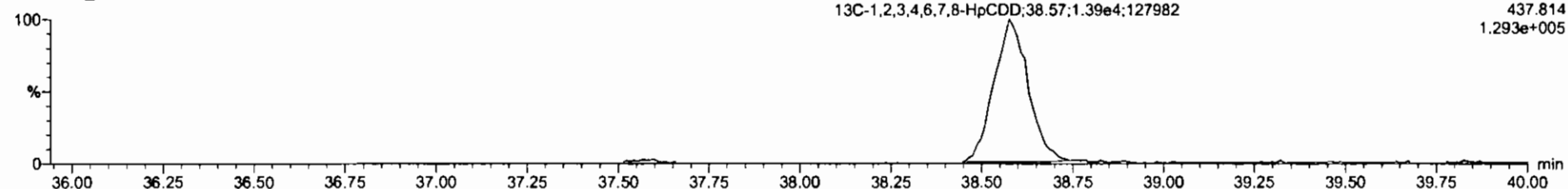


13C-1,2,3,4,6,7,8-HpCDD

210514D3\_2



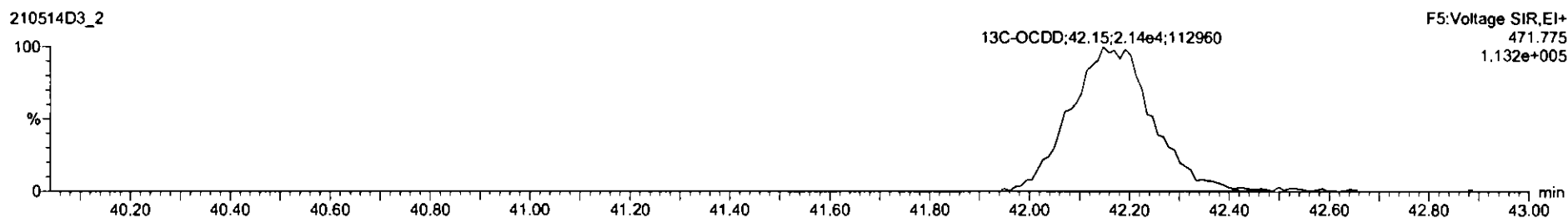
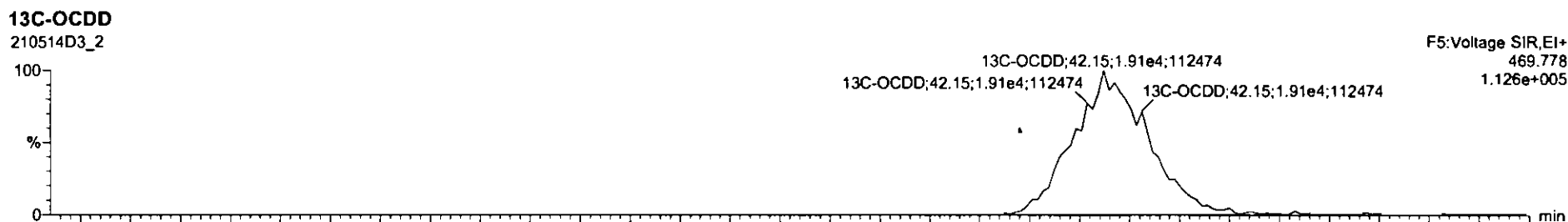
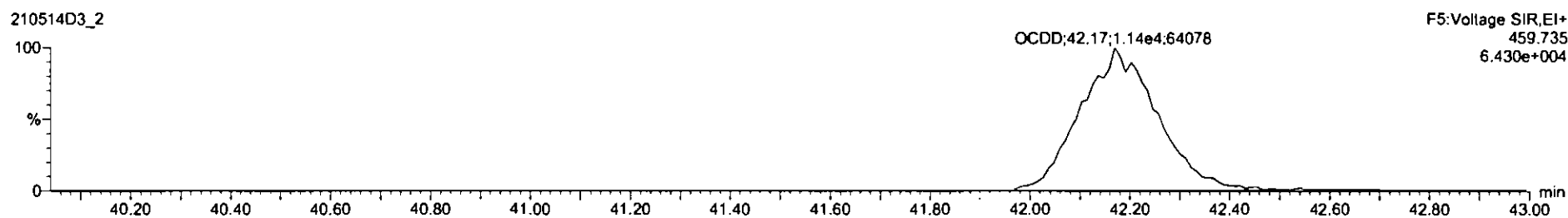
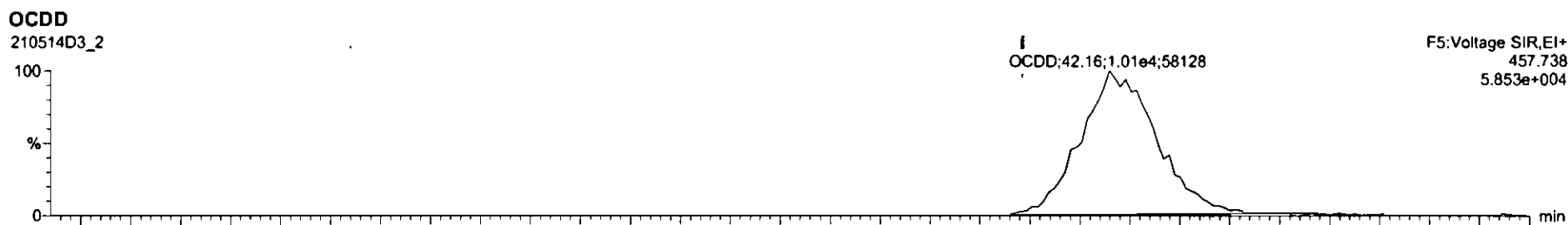
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Name: 210514D3\_2, Date: 14-May-2021, Time: 16:38:38, ID: B1E0057-BS1 OPR 10, Description: OPR



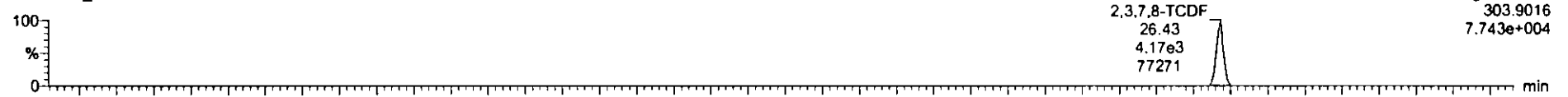
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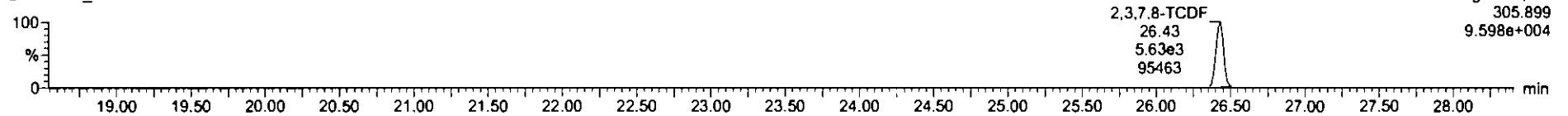
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2,3,7,8-TCDF

210514D3\_2

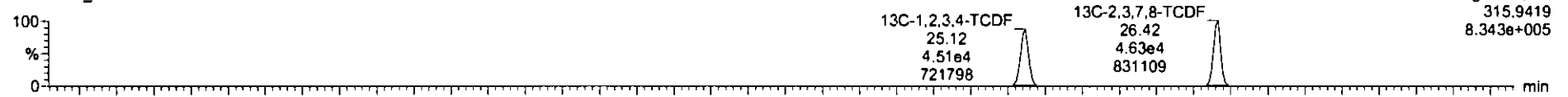


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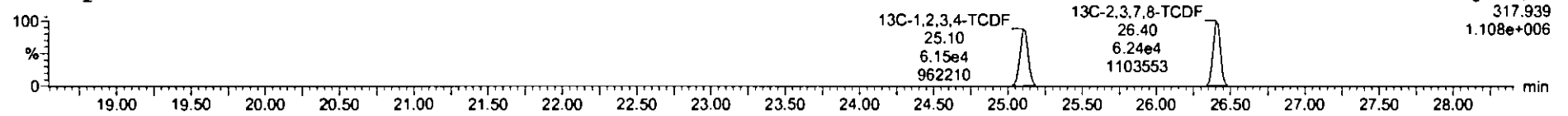


13C-2,3,7,8-TCDF

210514D3\_2

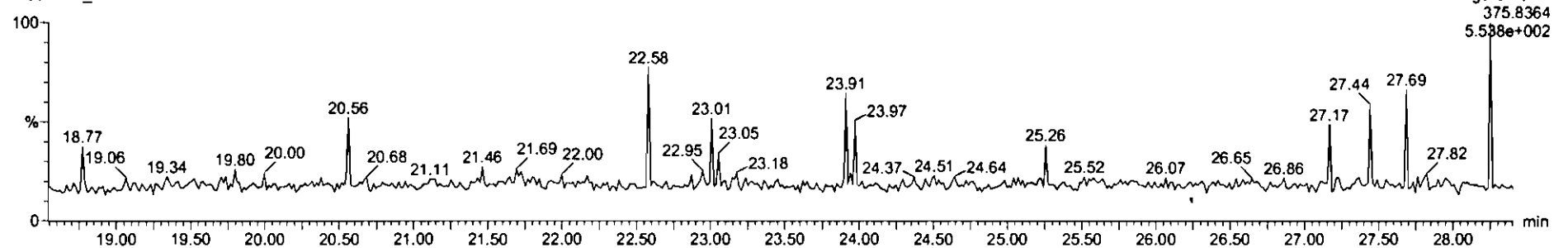


210514D3\_2



DPE1

210514D3\_2



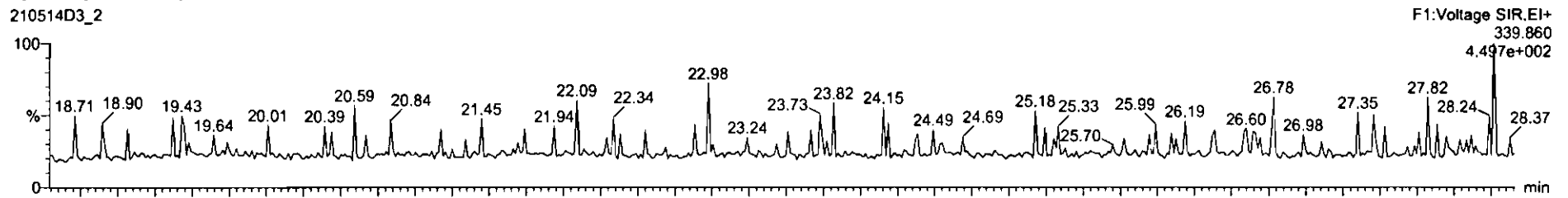
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Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

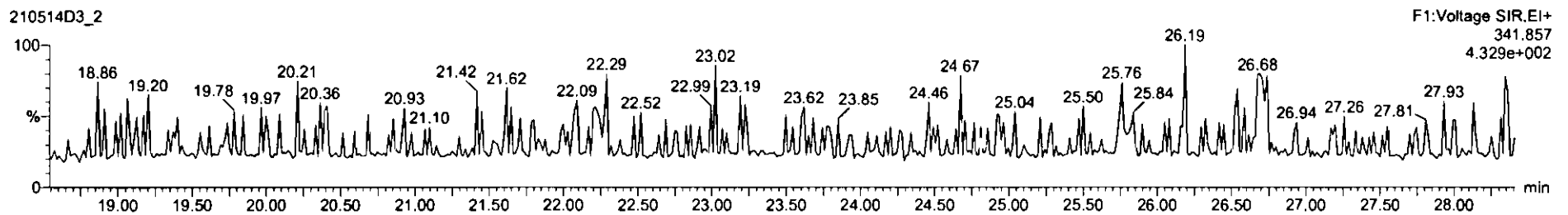
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1st Func. Penta-Furans

210514D3\_2

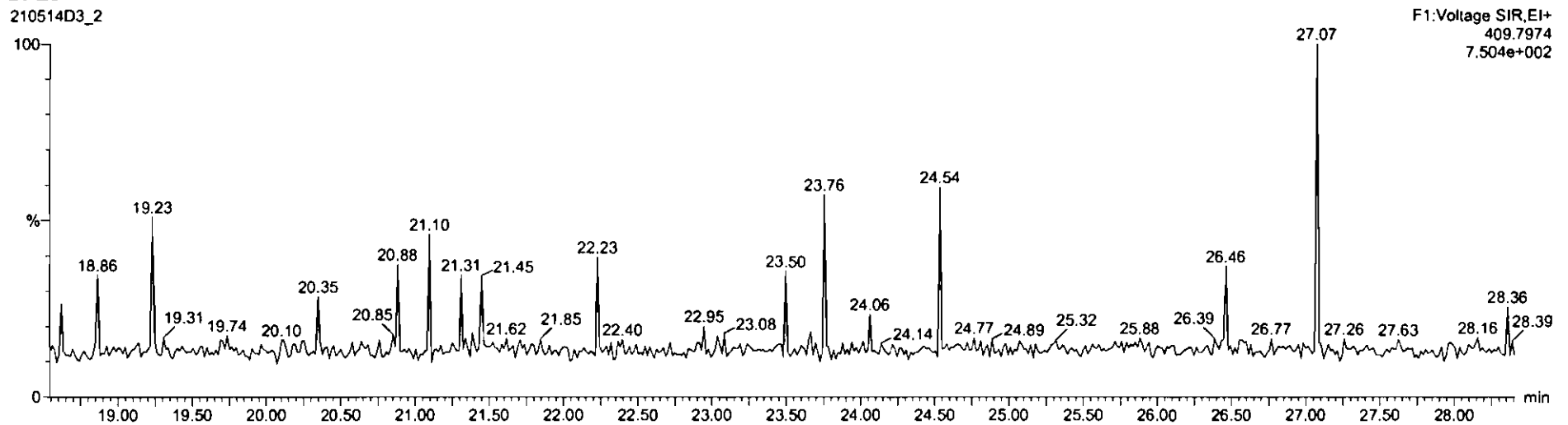


210514D3\_2



DPE6

210514D3\_2



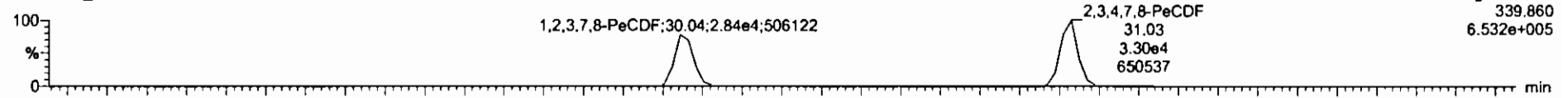
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Last Altered: Saturday, May 15, 2021 08:34:47 Pacific Daylight Time  
Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

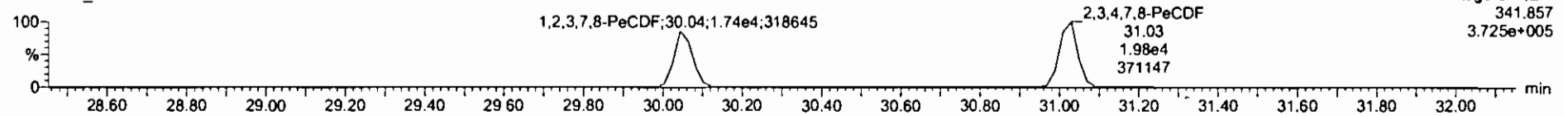
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**1,2,3,7,8-PeCDF**

210514D3\_2

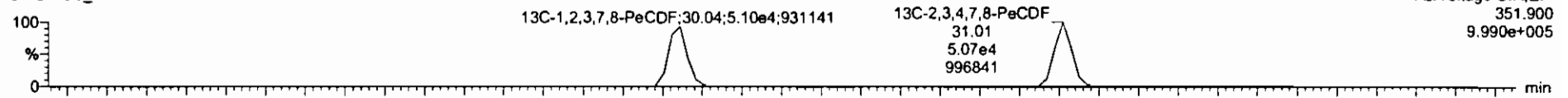


210514D3\_2

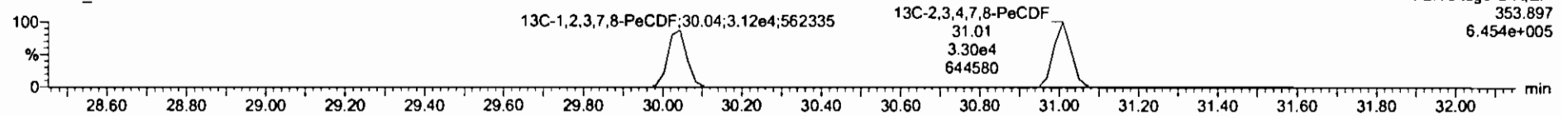


**13C-1,2,3,7,8-PeCDF**

210514D3\_2

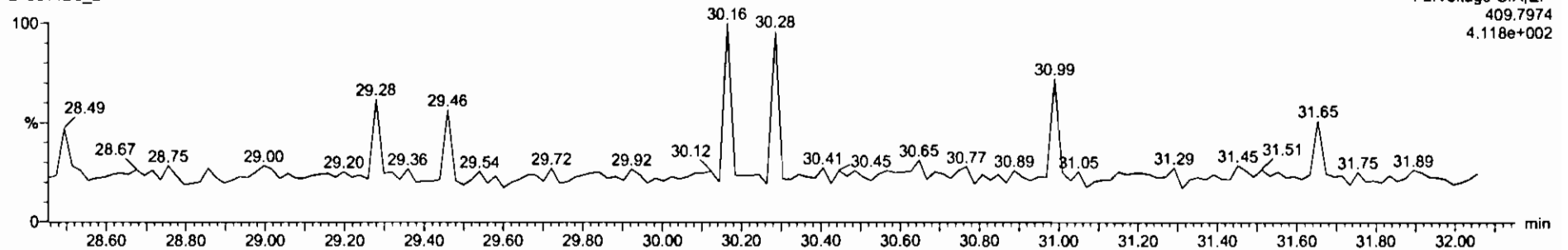


210514D3\_2



**DPE2**

210514D3\_2



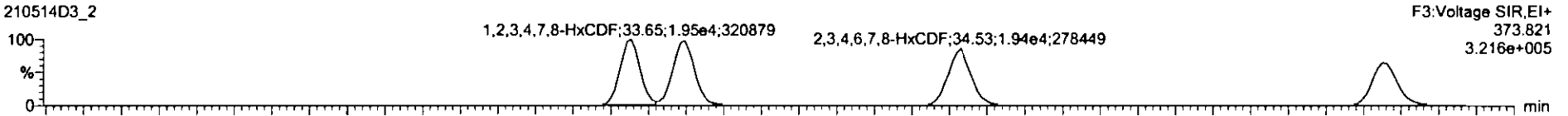
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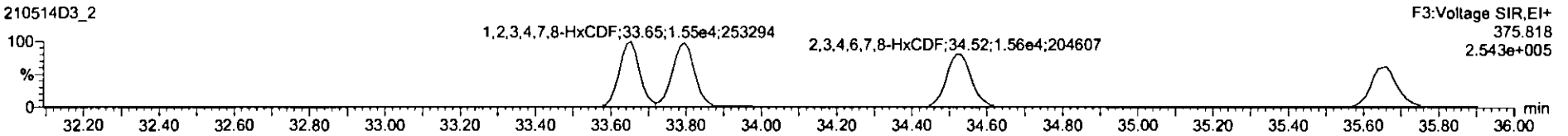
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1,2,3,4,7,8-HxCDF

210514D3\_2

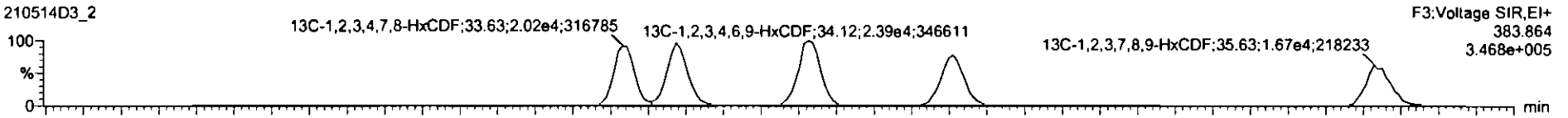


210514D3\_2

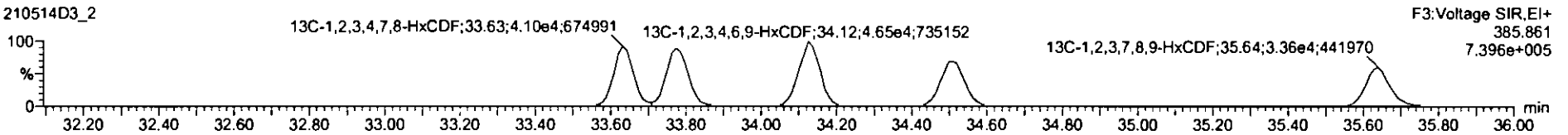


13C-1,2,3,4,7,8-HxCDF

210514D3\_2

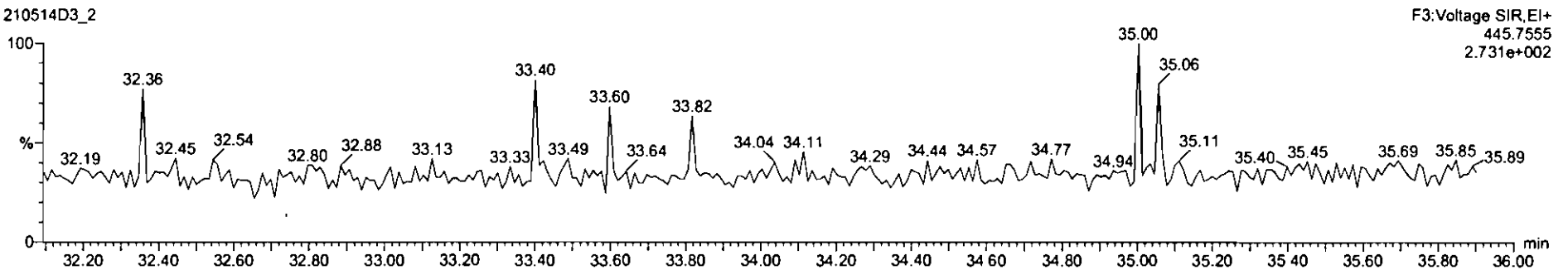


210514D3\_2



DPE3

210514D3\_2





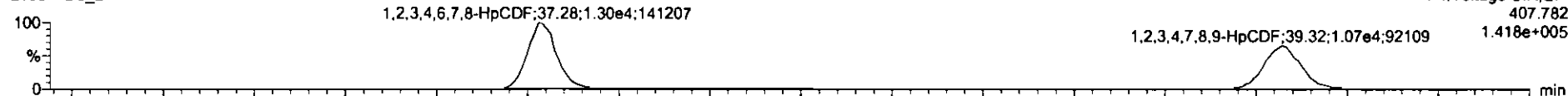
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Last Altered: Saturday, May 15, 2021 08:34:47 Pacific Daylight Time  
Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

Name: 210514D3\_2, Date: 14-May-2021, Time: 16:38:38, ID: B1E0057-BS1 OPR 10, Description: OPR

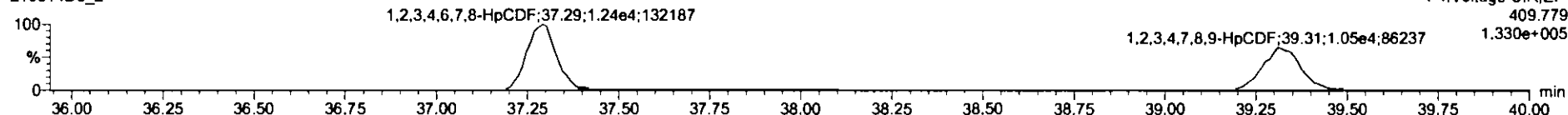
**1,2,3,4,6,7,8-HpCDF**

210514D3\_2



F4:Voltage SIR,EI+  
407.782  
1.418e+005

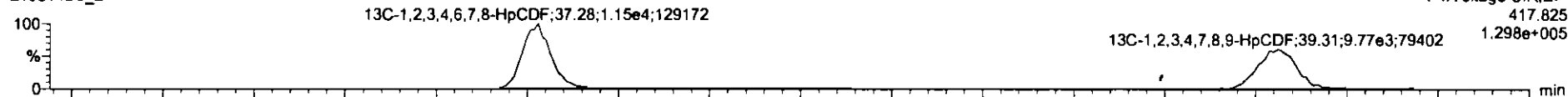
210514D3\_2



F4:Voltage SIR,EI+  
409.779  
1.330e+005

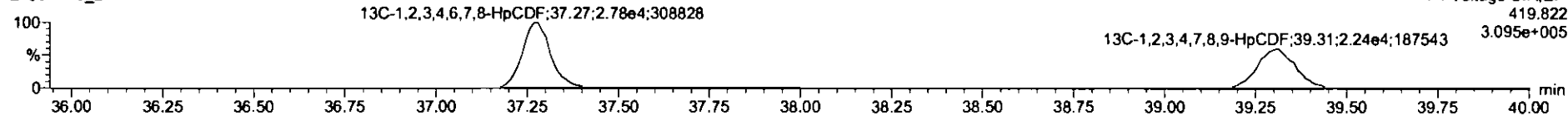
**13C-1,2,3,4,6,7,8-HpCDF**

210514D3\_2



F4:Voltage SIR,EI+  
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1.298e+005

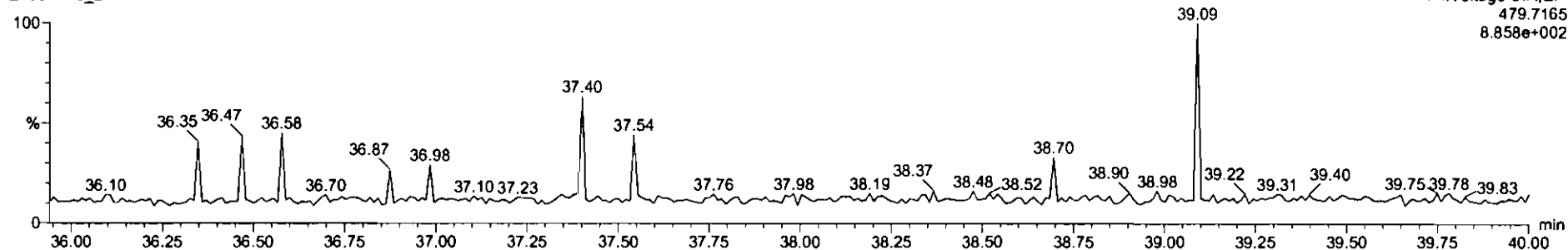
210514D3\_2



F4 Voltage SIR,EI+  
419.822  
3.095e+005

**DPE4**

210514D3\_2

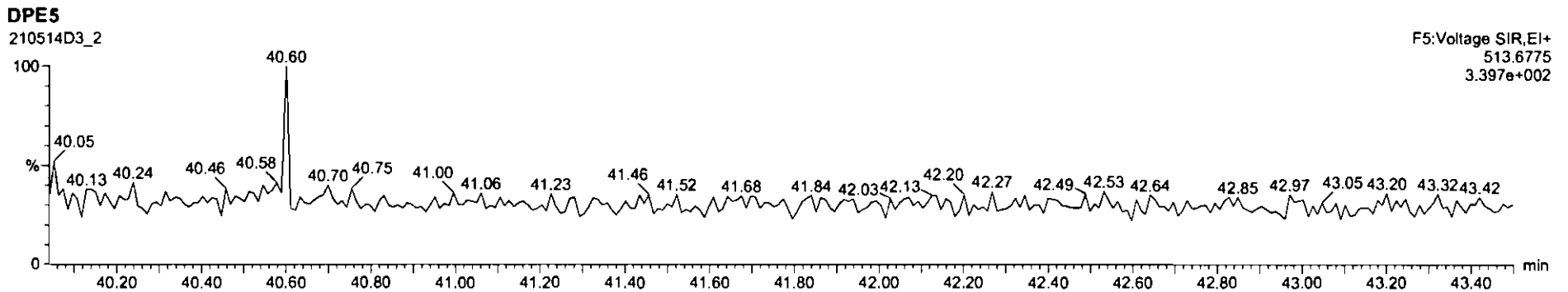
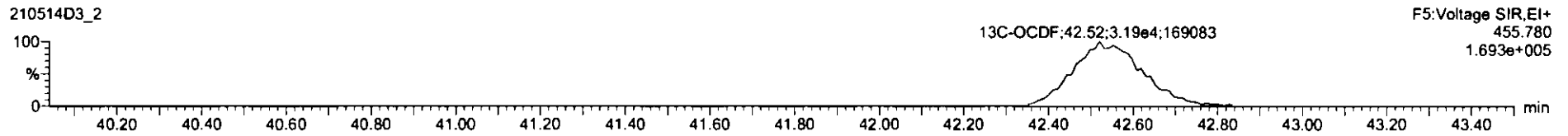
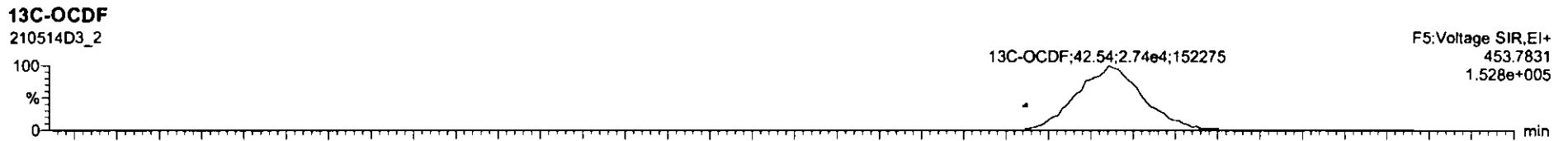
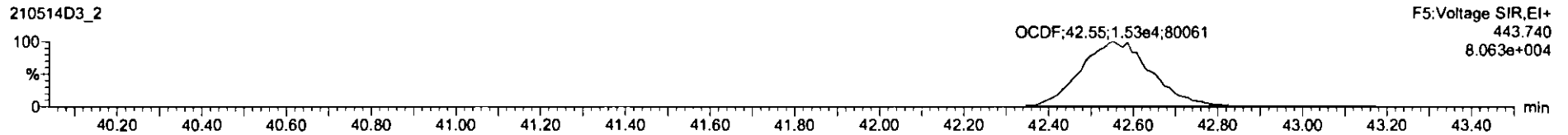
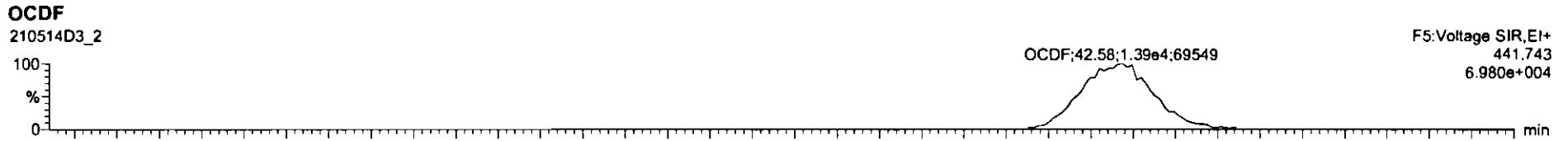


F4:Voltage SIR,EI+  
479.7165  
8.858e+002

Dataset: Untitled

Last Altered: Saturday, May 15, 2021 08:34:47 Pacific Daylight Time  
Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

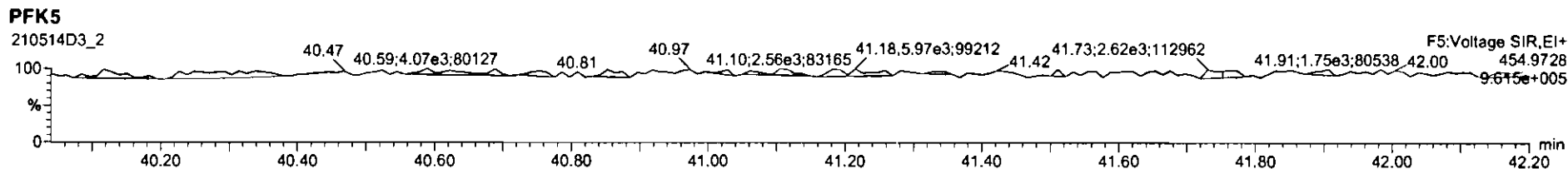
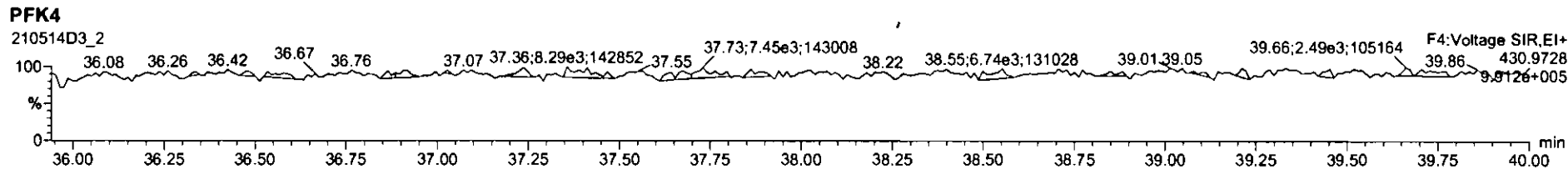
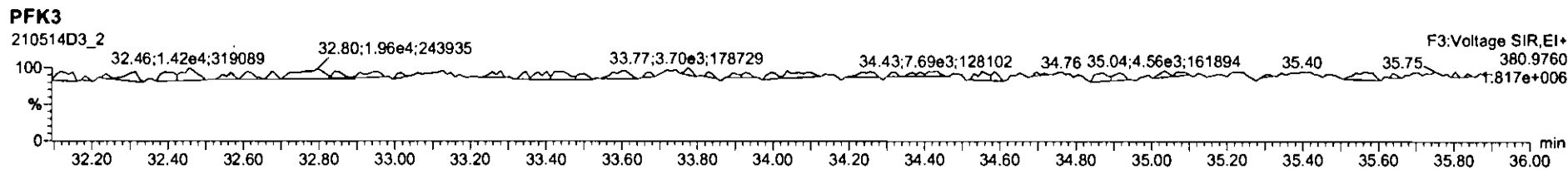
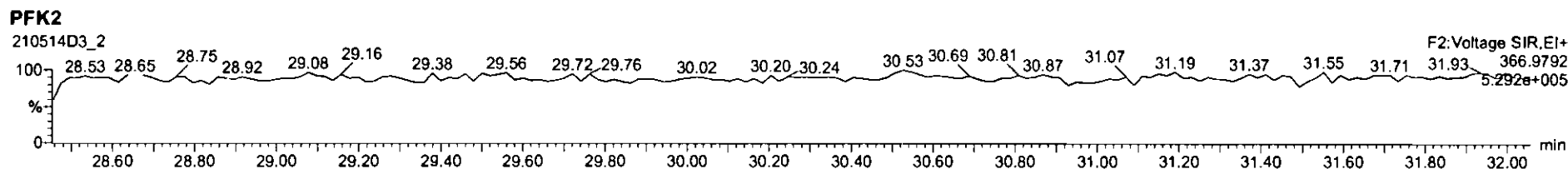
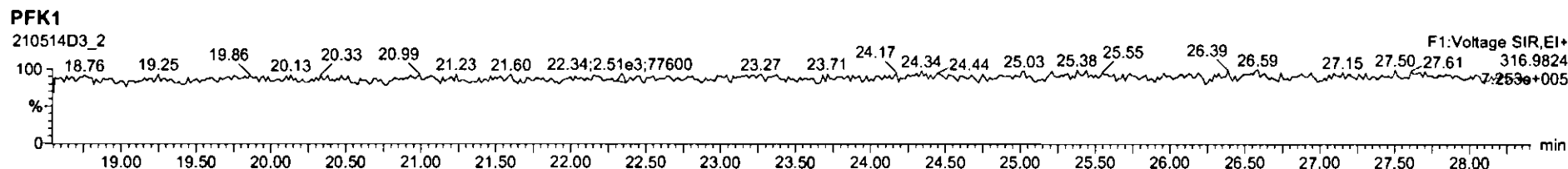
Name: 210514D3\_2, Date: 14-May-2021, Time: 16:38:38, ID: B1E0057-BS1 OPR 10, Description: OPR



Dataset: Untitled

Last Altered: Saturday, May 15, 2021 08:34:47 Pacific Daylight Time  
Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

Name: 210514D3\_2, Date: 14-May-2021, Time: 16:38:38, ID: B1E0057-BS1 OPR 10, Description: OPR



Dataset: U:\VG7.PRO\Results\210514D3\210514D3-5.qld

Last Altered: Friday, May 28, 2021 16:01:40 Pacific Daylight Time  
 Printed: Friday, May 28, 2021 16:02:47 Pacific Daylight Time

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Method: Untitled 06 Apr 2021 09:18:07  
 Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

*Handwritten:* X see d.1

Name: 210514D3\_5, Date: 14-May-2021, Time: 18:57:42, ID: 2104304-01 USMPDI-033SC-A-14-15-210427 17.07, Description: USMPDI-033SC-A-14-15-210427, Task: ST210514D3-1

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.21e2	0.71	NO	1.05	10.099	27.01	1.001	1.7921		0.231	1.79
2 1,2,3,7,8-PeCDD	3.14e2	0.42	YES	0.881	10.099	31.17	1.001	1.6777		0.452	1.29
3 1,2,3,4,7,8-HxCDD	4.19e2	1.30	NO	1.14	10.099	34.64	1.000	2.2924		1.08	2.29
4 1,2,3,6,7,8-HxCDD	2.25e3	1.25	NO	1.01	10.099	34.76	1.000	13.054		1.24	13.1
5 1,2,3,7,8,9-HxCDD	9.07e2	1.07	NO	1.02	10.099	35.09	1.001	5.3004		1.36	5.30
6 1,2,3,4,6,7,8-HpCDD	5.52e4	1.05	NO	1.07	10.099	38.51	1.000	365.05		5.65	365
7 OCDD	7.03e5	0.90	NO	1.00	10.099	42.27	1.001	6715.2	<i>EA</i>	10.9	6720
8 2,3,7,8-TCDF	3.78e4	0.72	NO	0.864	10.099	26.43	1.001	80.183		0.289	80.2
9 1,2,3,7,8-PeCDF	5.60e4	1.68	NO	0.948	10.099	30.04	1.001	158.66		0.569	159
10 2,3,4,7,8-PeCDF	3.06e4	1.66	NO	1.04	10.099	31.01	1.001	75.759		0.460	75.8
11 1,2,3,4,7,8-HxCDF	9.72e4	1.26	NO	1.04	10.099	33.64	1.001	305.85		1.21	306
12 1,2,3,6,7,8-HxCDF	2.64e4	1.23	NO	1.07	10.099	33.78	1.001	80.808		1.13	80.8
13 2,3,4,6,7,8-HxCDF	5.25e3	1.21	NO	1.12	10.099	34.53	1.001	18.392		1.58	18.4
14 1,2,3,7,8,9-HxCDF	2.32e3	1.15	NO	1.10	10.099	35.64	1.001	8.6484		1.68	8.65
15 1,2,3,4,6,7,8-HpCDF	5.36e4	1.02	NO	1.16	10.099	37.25	1.000	241.31		2.31	241
16 1,2,3,4,7,8,9-HpCDF	1.10e4	1.06	NO	1.19	10.099	39.27	1.001	55.482		3.73	55.5
17 OCDF	7.54e4	0.87	NO	0.909	10.099	42.70	0.999	525.08		9.78	525
18 13C-2,3,7,8-TCDD	5.50e4	0.73	NO	1.15	10.099	27.00	1.025	168.91	85.3	0.611	
19 13C-1,2,3,7,8-PeCDD	4.20e4	0.58	NO	0.887	10.099	31.15	1.183	166.63	84.1	0.550	
20 13C-1,2,3,4,7,8-HxCDD	3.17e4	1.31	NO	0.645	10.099	34.63	1.015	146.84	74.1	1.02	
21 13C-1,2,3,6,7,8-HxCDD	3.37e4	1.32	NO	0.717	10.099	34.75	1.019	140.79	71.1	0.921	
22 13C-1,2,3,7,8,9-HxCDD	3.32e4	1.31	NO	0.714	10.099	35.06	1.028	139.27	70.3	0.924	
23 13C-1,2,3,4,6,7,8-HpCDD	2.81e4	1.12	NO	0.583	10.099	38.50	1.129	144.10	72.8	1.66	
24 13C-OCDD	4.14e4	0.89	NO	0.451	10.099	42.22	1.238	274.11	69.2	4.14	
25 13C-2,3,7,8-TCDF	1.08e5	0.75	NO	1.09	10.099	26.42	1.003	174.80	88.3	0.598	
26 13C-1,2,3,7,8-PeCDF	7.37e4	1.62	NO	0.805	10.099	30.02	1.140	161.66	81.6	0.748	
27 13C-2,3,4,7,8-PeCDF	7.71e4	1.64	NO	0.792	10.099	30.99	1.176	171.75	86.7	0.760	
28 13C-1,2,3,4,7,8-HxCDF	6.03e4	0.50	NO	0.997	10.099	33.62	0.986	180.96	91.4	1.32	
29 13C-1,2,3,6,7,8-HxCDF	6.01e4	0.54	NO	1.03	10.099	33.76	0.990	174.90	88.3	1.28	
30 13C-2,3,4,6,7,8-HxCDF	5.06e4	0.50	NO	0.940	10.099	34.51	1.012	161.00	81.3	1.40	

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-5.qld

Last Altered: Friday, May 28, 2021 16:01:40 Pacific Daylight Time  
 Printed: Friday, May 28, 2021 16:02:47 Pacific Daylight Time

Name: 210514D3\_5, Date: 14-May-2021, Time: 18:57:42, ID: 2104304-01 USMPDI-033SC-A-14-15-210427 17.07, Description: USMPDI-033SC-A-14-15-210427, Task: ST210514D3-1

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31 13C-1,2,3,7,8,9-HxCDF	4.85e4	0.53	NO	0.852	10.099	35.62	1.044	170.03	85.9	1.54	
32 13C-1,2,3,4,6,7,8-HpCDF	3.79e4	0.43	NO	0.727	10.099	37.25	1.092	156.07	78.8	1.96	
33 13C-1,2,3,4,7,8,9-HpCDF	3.30e4	0.43	NO	0.608	10.099	39.23	1.150	162.37	82.0	2.34	
34 13C-OCDF	6.26e4	0.88	NO	0.631	10.099	42.73	1.253	297.01	75.0	0.910	
35 37Cl-2,3,7,8-TCDD	8.84e4			2.22	10.099	27.01	1.026	140.21	177	0.0778	
36 13C-1,2,3,4-TCDD	5.63e4	0.77	NO	1.00	10.099	26.34	1.000	198.04	100	0.700	
37 13C-1,2,3,4-TCDF	1.12e5	0.76	NO	1.00	10.099	25.10	1.000	198.04	100	0.653	
38 13C-1,2,3,4,6,9-HxCDF	6.62e4	0.53	NO	1.00	10.099	34.11	1.000	198.04	100	1.32	
39 Total Tetra-Dioxins				1.05	10.099			15.206		0.231	17.0
40 Total Penta-Dioxins				0.881	10.099			9.6370		0.432	20.2
41 Total Hexa-Dioxins				1.01	10.099			123.35		1.28	123
42 Total Hepta-Dioxins				1.07	10.099			926.84		5.65	927
43 Total Tetra-Furans				0.864	10.099			248.32		0.289	251
44 1st Func. Penta-Furans				0.948	10.099			41.233		0.0847	41.2
45 Total Penta-Furans				0.948	10.099			406.37		0.536	406
46 Total Hexa-Furans				1.12	10.099			643.51		1.34	671
47 Total Hepta-Furans				1.16	10.099			753.01		3.01	753

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-5.qld

Last Altered: Friday, May 28, 2021 16:01:40 Pacific Daylight Time  
 Printed: Friday, May 28, 2021 16:02:47 Pacific Daylight Time

Method: Untitled 06 Apr 2021 09:18:07

Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210514D3\_5, Date: 14-May-2021, Time: 18:57:42, ID: 2104304-01 USMPDI-033SC-A-14-15-210427 17.07, Description: USMPDI-033SC-A-14-15-210427, Task: ST210514D3-1

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Dioxins	23.88	1.835e4	2.329e4	1.311e3	1.644e3	0.80	NO	2.955e3	10.155	10.155	0.231
2	Total Tetra-Dioxins	24.15	3.201e3	4.486e3	2.257e2	2.784e2	0.81	NO	5.041e2	1.7325	1.7325	0.231
3	Total Tetra-Dioxins	24.57	1.211e3	1.021e3	6.562e1	7.699e1	0.85	NO	1.426e2	0.49009	0.49009	0.231
4	Total Tetra-Dioxins	25.29	1.026e3	1.238e3	6.898e1	5.969e1	1.16	YES	0.000e0	0.00000	0.36310	0.231
5	Total Tetra-Dioxins	25.42	1.162e3	1.232e3	8.532e1	9.195e1	0.93	YES	0.000e0	0.00000	0.55930	0.231
6	Total Tetra-Dioxins	25.64	1.630e3	2.440e3	9.381e1	1.222e2	0.77	NO	2.160e2	0.74245	0.74245	0.231
7	Total Tetra-Dioxins	26.77	1.881e3	2.261e3	1.257e2	1.366e2	0.92	YES	0.000e0	0.00000	0.83078	0.231
8	2,3,7,8-TCDD	27.01	4.101e3	5.810e3	2.162e2	3.053e2	0.71	NO	5.215e2	1.7921	1.7921	0.231
9	Total Tetra-Dioxins	27.30	5.860e2	1.175e3	3.520e1	5.055e1	0.70	NO	8.575e1	0.29470	0.29470	0.231

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Dioxins	29.12	6.132e3	9.947e3	4.510e2	7.317e2	0.62	NO	1.183e3	6.3267	6.3267	0.432
2	Total Penta-Dioxins	29.56	2.282e3	2.727e3	1.209e2	1.577e2	0.77	YES	0.000e0	0.00000	1.3752	0.432
3	Total Penta-Dioxins	30.04	5.179e3	7.606e3	2.853e2	3.877e2	0.74	YES	0.000e0	0.00000	3.3802	0.432
4	Total Penta-Dioxins	30.18	2.791e3	4.177e3	2.419e2	3.222e2	0.75	YES	0.000e0	0.00000	2.8089	0.432
5	Total Penta-Dioxins	30.44	2.744e3	4.267e3	1.886e2	3.216e2	0.59	NO	5.103e2	2.7295	2.7295	0.432
6	Total Penta-Dioxins	30.73	6.680e2	1.244e3	4.022e1	6.836e1	0.59	NO	1.086e2	0.58081	0.58081	0.432
7	1,2,3,7,8-PeCDD	31.17	2.127e3	4.187e3	9.295e1	2.207e2	0.42	YES	3.136e2	0.00000	1.2865	0.432
8	Total Penta-Dioxins	31.25	1.595e3	1.711e3	9.164e1	9.694e1	0.95	YES	0.000e0	0.00000	0.84524	0.432
9	Total Penta-Dioxins	31.51	9.810e2	2.447e3	6.442e1	1.213e2	0.53	YES	0.000e0	0.00000	0.89154	0.432

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-5.qld

Last Altered: Friday, May 28, 2021 16:01:40 Pacific Daylight Time  
 Printed: Friday, May 28, 2021 16:02:47 Pacific Daylight Time

Name: 210514D3\_5, Date: 14-May-2021, Time: 18:57:42, ID: 2104304-01 USMPDI-033SC-A-14-15-210427 17.07, Description: USMPDI-033SC-A-14-15-210427,  
 Task: ST210514D3-1

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Dioxins	32.84	7.608e4	6.164e4	4.279e3	3.464e3	1.24	NO	7.743e3	46.135	46.135	1.28
2	Total Hexa-Dioxins	33.48	8.068e3	7.083e3	4.844e2	3.992e2	1.21	NO	8.835e2	5.2645	5.2645	1.28
3	Total Hexa-Dioxins	33.80	5.743e4	4.720e4	4.619e3	3.680e3	1.26	NO	8.299e3	49.446	49.446	1.28
4	1,2,3,4,7,8-HxCDD	34.64	4.104e3	2.498e3	2.366e2	1.825e2	1.30	NO	4.191e2	2.2924	2.2924	1.08
5	1,2,3,6,7,8-HxCDD	34.76	1.576e4	1.232e4	1.249e3	9.986e2	1.25	NO	2.247e3	13.054	13.054	1.24
6	Total Hexa-Dioxins	34.96	2.662e3	2.519e3	1.727e2	1.392e2	1.24	NO	3.119e2	1.8583	1.8583	1.28
7	1,2,3,7,8,9-HxCDD	35.09	5.981e3	5.924e3	4.685e2	4.385e2	1.07	NO	9.070e2	5.3004	5.3004	1.36

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hepta-Dioxins	37.55	5.040e5	4.847e5	4.367e4	4.122e4	1.06	NO	8.489e4	561.79	561.79	5.65
2	1,2,3,4,6,7,8-HpCDD	38.51	2.582e5	2.548e5	2.825e4	2.691e4	1.05	NO	5.516e4	365.05	365.05	5.65

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-5.qld

Last Altered: Friday, May 28, 2021 16:01:40 Pacific Daylight Time  
 Printed: Friday, May 28, 2021 16:02:47 Pacific Daylight Time

Name: 210514D3\_5, Date: 14-May-2021, Time: 18:57:42, ID: 2104304-01 USMPDI-033SC-A-14-15-210427 17.07, Description: USMPDI-033SC-A-14-15-210427, Task: ST210514D3-1

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Tetra-Furans	22.01	2.244e3	2.762e3	1.453e2	2.069e2	0.70	NO	3.522e2	0.74725	0.74725	0.289
2 Total Tetra-Furans	22.53	7.099e3	9.480e3	5.484e2	6.791e2	0.81	NO	1.227e3	2.6042	2.6042	0.289
3 Total Tetra-Furans	23.21	2.923e4	4.153e4	2.193e3	2.913e3	0.75	NO	5.106e3	10.834	10.834	0.289
4 Total Tetra-Furans	23.59	7.652e3	1.123e4	1.120e3	1.582e3	0.71	NO	2.701e3	5.7309	5.7309	0.289
5 Total Tetra-Furans	23.92	6.134e4	8.132e4	4.686e3	6.190e3	0.76	NO	1.088e4	23.076	23.076	0.289
6 Total Tetra-Furans	24.29	3.315e4	3.893e4	2.365e3	2.968e3	0.80	NO	5.332e3	11.313	11.313	0.289
7 Total Tetra-Furans	24.58	1.024e4	1.483e4	6.995e2	9.649e2	0.72	NO	1.664e3	3.5311	3.5311	0.289
8 Total Tetra-Furans	24.90	3.166e3	3.166e3	1.388e2	1.847e2	0.75	NO	3.235e2	0.68639	0.68639	0.289
9 Total Tetra-Furans	25.01	2.197e3	3.131e3	1.438e2	1.876e2	0.77	NO	3.313e2	0.70293	0.70293	0.289
10 Total Tetra-Furans	25.21	3.220e4	4.296e4	3.032e3	3.926e3	0.77	NO	6.957e3	14.761	14.761	0.289
11 Total Tetra-Furans	25.58	2.361e5	3.266e5	1.445e4	1.912e4	0.76	NO	3.357e4	71.215	71.215	0.289
12 Total Tetra-Furans	25.85	8.775e3	1.000e4	5.529e2	6.870e2	0.80	NO	1.240e3	2.6307	2.6307	0.289
13 Total Tetra-Furans	26.19	3.565e3	4.924e3	1.839e2	2.652e2	0.69	NO	4.492e2	0.95295	0.95295	0.289
14 Total Tetra-Furans	26.33	2.665e4	3.440e4	1.440e3	1.956e3	0.74	NO	3.396e3	7.2049	7.2049	0.289
15 2,3,7,8-TCDF	26.43	2.706e5	3.801e5	1.588e4	2.191e4	0.72	NO	3.779e4	80.183	80.183	0.289
16 Total Tetra-Furans	26.69	1.165e4	1.541e4	7.502e2	1.046e3	0.72	NO	1.796e3	3.8110	3.8110	0.289
17 Total Tetra-Furans	26.92	3.171e3	2.843e3	1.758e2	1.990e2	0.88	NO	3.748e2	0.79512	0.79512	0.289
18 Total Tetra-Furans	27.40	2.393e3	3.578e3	1.460e2	1.896e2	0.77	NO	3.356e2	0.71192	0.71192	0.289
19 Total Tetra-Furans	27.53	2.750e3	3.787e3	2.710e2	2.322e2	1.17	YES	0.000e0	0.00000	0.87178	0.289
20 Total Tetra-Furans	27.72	6.317e3	9.945e3	3.686e2	5.250e2	0.70	NO	8.936e2	1.8959	1.8959	0.289
21 Total Tetra-Furans	27.88	1.270e4	8.735e3	6.708e2	4.658e2	1.44	YES	0.000e0	0.00000	1.7492	0.289
22 Total Tetra-Furans	28.07	1.779e4	2.375e4	1.016e3	1.308e3	0.78	NO	2.324e3	4.9300	4.9300	0.289

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 1st Func. Penta-Furans	27.70	1.771e5	1.054e5	9.335e3	5.558e3	1.68	NO	1.489e4	41.233	41.233	0.0847



Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-5.qld

Last Altered: Friday, May 28, 2021 16:01:40 Pacific Daylight Time

Printed: Friday, May 28, 2021 16:02:47 Pacific Daylight Time

Name: 210514D3\_5, Date: 14-May-2021, Time: 18:57:42, ID: 2104304-01 USMPDI-033SC-A-14-15-210427 17.07, Description: USMPDI-033SC-A-14-15-210427, Task: ST210514D3-1

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Penta-Furans	29.02	1.404e4	8.193e3	9.375e2	5.479e2	1.71	NO	1.485e3	4.1126	4.1126	0.536
Total Penta-Furans	29.16	3.141e5	1.896e5	1.907e4	1.160e4	1.64	NO	3.067e4	84.908	84.908	0.536
Total Penta-Furans	29.72	3.977e4	2.503e4	2.632e3	1.535e3	1.71	NO	4.166e3	11.536	11.536	0.536
Total Penta-Furans	29.86	6.370e4	3.773e4	3.283e3	1.966e3	1.67	NO	5.249e3	14.533	14.533	0.536
1,2,3,7,8-PeCDF	30.04	7.411e5	4.391e5	3.515e4	2.088e4	1.68	NO	5.603e4	158.66	158.66	0.569
Total Penta-Furans	30.26	2.428e5	1.434e5	1.110e4	7.165e3	1.55	NO	1.826e4	50.568	50.568	0.536
Total Penta-Furans	30.83	4.657e3	2.395e3	3.374e2	2.083e2	1.62	NO	5.456e2	1.5106	1.5106	0.536
2,3,4,7,8-PeCDF	31.01	3.657e5	2.230e5	1.910e4	1.150e4	1.66	NO	3.060e4	75.759	75.759	0.460
Total Penta-Furans	31.87	1.398e4	9.814e3	1.035e3	6.908e2	1.50	NO	1.726e3	4.7791	4.7791	0.536

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hexa-Furans	32.29	7.525e4	5.757e4	4.067e3	3.136e3	1.30	NO	7.203e3	23.269	23.269	1.34
Total Hexa-Furans	32.46	2.660e5	2.020e5	1.424e4	1.145e4	1.24	NO	2.569e4	82.981	82.981	1.34
Total Hexa-Furans	32.90	4.930e3	4.142e3	3.523e2	2.968e2	1.19	NO	6.490e2	2.0967	2.0967	1.34
Total Hexa-Furans	33.13	3.047e5	2.559e5	1.843e4	1.524e4	1.21	NO	3.366e4	108.75	108.75	1.34
Total Hexa-Furans	33.52	1.633e4	1.292e4	1.005e3	8.545e2	1.18	NO	1.860e3	6.0075	6.0075	1.34
1,2,3,4,7,8-HxCDF	33.64	8.896e5	7.046e5	5.420e4	4.299e4	1.26	NO	9.719e4	305.85	305.85	1.21
1,2,3,6,7,8-HxCDF	33.78	2.258e5	1.810e5	1.452e4	1.184e4	1.23	NO	2.636e4	80.808	80.808	1.13
Total Hexa-Furans	34.11	1.733e4	1.508e4	1.173e3	9.030e2	1.30	NO	2.076e3	6.7059	6.7059	1.34
2,3,4,6,7,8-HxCDF	34.53	4.827e4	4.157e4	2.877e3	2.371e3	1.21	NO	5.248e3	18.392	18.392	1.58
Total Hexa-Furans	34.56	3.959e4	2.381e4	9.993e2	6.990e2	1.43	YES	0.000e0	0.00000	5.0578	1.34
1,2,3,7,8,9-HxCDF	35.64	4.753e4	3.796e4	1.246e3	1.079e3	1.15	NO	2.325e3	8.6464	8.6484	1.68
Total Hexa-Furans	35.66	6.662e4	4.936e4	3.896e3	2.932e3	1.33	NO	0.000e0	0.00000	22.059	1.34

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-5.qld

Last Altered: Friday, May 28, 2021 16:01:40 Pacific Daylight Time  
 Printed: Friday, May 28, 2021 16:02:47 Pacific Daylight Time

Name: 210514D3\_5, Date: 14-May-2021, Time: 18:57:42, ID: 2104304-01 USMPDI-033SC-A-14-15-210427 17.07, Description: USMPDI-033SC-A-14-15-210427,  
 Task: ST210514D3-1

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1,2,3,4,6,7,8-HpCDF	37.25	3.255e5	3.236e5	2.703e4	2.657e4	1.02	NO	5.360e4	241.31	241.31	2.31
Total Hepta-Furans	37.62	7.524e3	7.678e3	6.307e2	6.227e2	1.01	NO	1.253e3	6.0345	6.0345	3.01
Total Hepta-Furans	37.83	5.486e5	5.291e5	4.752e4	4.599e4	1.03	NO	9.351e4	450.18	450.18	3.01
1,2,3,4,7,8,9-HpCDF	39.27	4.800e4	4.335e4	5.645e3	5.329e3	1.06	NO	1.097e4	55.482	55.482	3.73

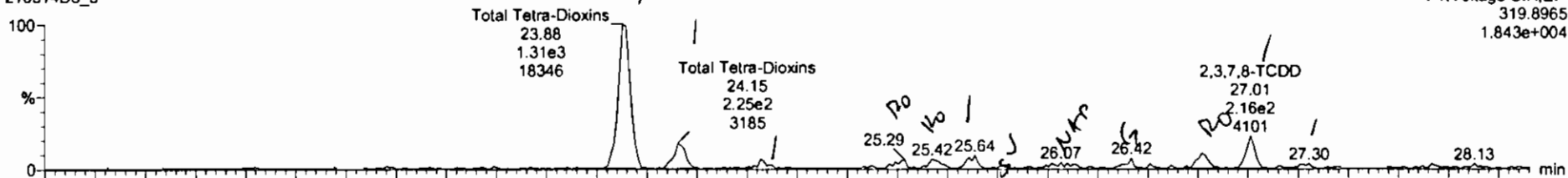
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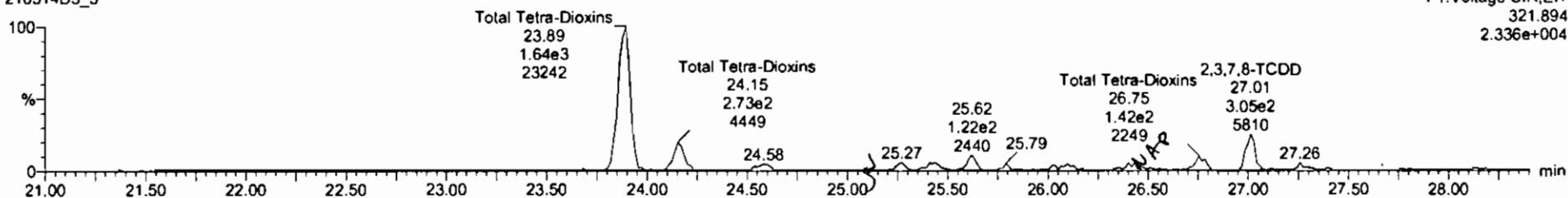
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2,3,7,8-TCDD

210514D3\_5



210514D3\_5

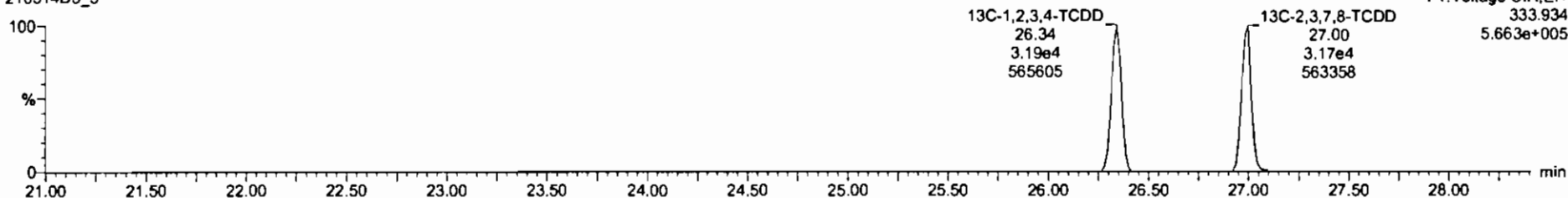


13C-2,3,7,8-TCDD

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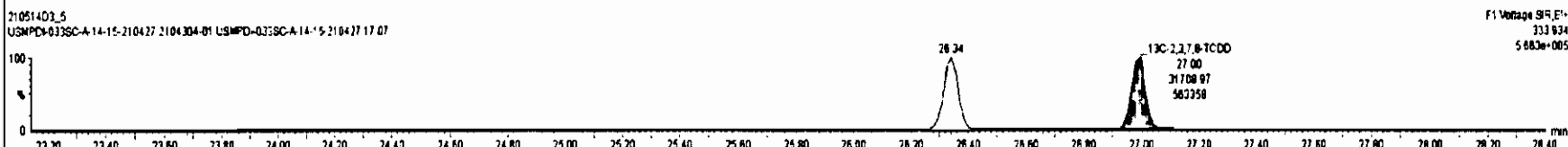
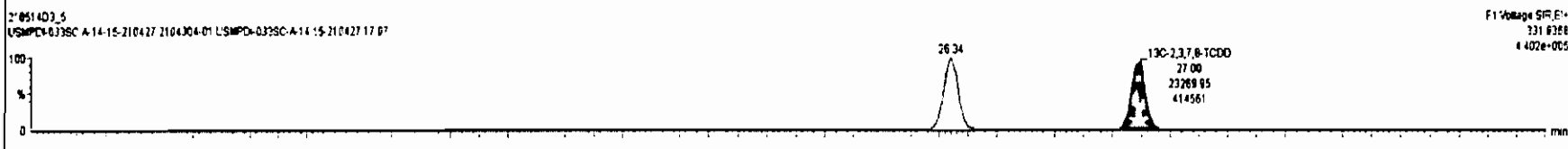
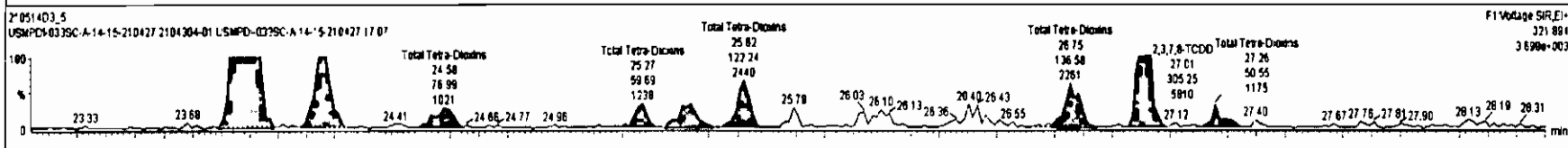
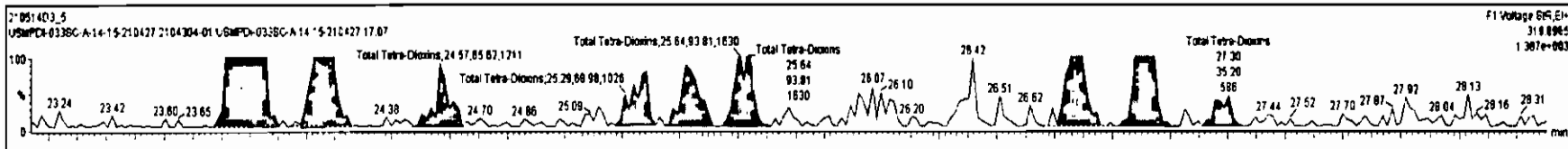


210514D3\_5



#	Name	Resp	RA	rv	RRF	wAdj	RT	RRT	Conc	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HxCDF	3.30e4	0.43	NO	0.81	10.000	39.23	1.150	182	82.0	2.34	
34	13C-OCDF	8.26e4	0.88	NO	0.83	10.000	42.73	1.253	297	75.0	0.910	
35	2,3,7,8-TCDF	8.84e4			2.22	10.000	27.01	1.026	142	177	0.0778	
36	13C-1,2,3,4-TCDF	5.63e4	0.77	NO	1.00	10.000	26.34	1.000	199	100	0.700	
37	13C-1,2,3,4-TCDF	1.12e5	0.76	NO	1.00	10.000	25.10	1.000	199	100	0.653	
38	13C-1,2,3,4,6,9-HxCDF	8.82e4	0.53	NO	1.00	10.000	34.11	1.000	199	100	1.32	
39	Total Tetra-Dioxins				1.05	10.000			15.2		0.231	17.0
40	Total Penta-Dioxins				0.88	10.000			9.08		0.432	15.6
41	Total Hexa-Dioxins				1.01	10.000			121		1.28	121
42	Total Dioxin Phenols				1.87	10.000			977		4.46	977

#	Name	RT	rt Resp	id Resp	RA	rv	EMPC	Conc
1	Total Tetra-Dioxins	23.88	1.311e3	1.844e3	0.83	NO	10.155	10.155
2	Total Tetra-Dioxins	24.15	2.257e2	2.784e2	0.81	NO	1.7325	1.7325
3	Total Tetra-Dioxins	24.57	6.562e1	7.698e1	0.85	NO	0.49009	0.49009
4	Total Tetra-Dioxins	25.29	6.889e1	5.989e1	1.16	YES	0.36310	0.00000
5	Total Tetra-Dioxins	25.42	8.532e1	9.195e1	0.93	YES	0.55930	0.00000
6	Total Tetra-Dioxins	25.64	9.381e1	1.222e2	0.77	NO	0.74245	0.74245
7	Total Tetra-Dioxins	26.77	1.257e2	1.386e2	0.92	YES	0.80076	0.00000

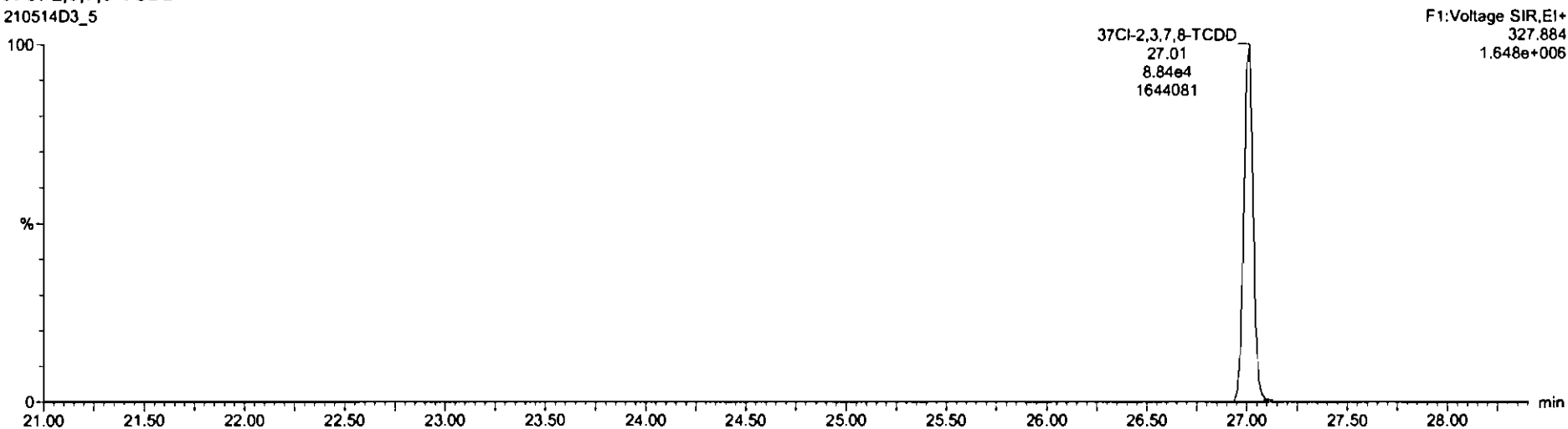


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Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

Name: 210514D3\_5, Date: 14-May-2021, Time: 18:57:42, ID: 2104304-01 USMPDI-033SC-A-14-15-210427 17.07, Description: USMPDI-033SC-A-14-15-210427

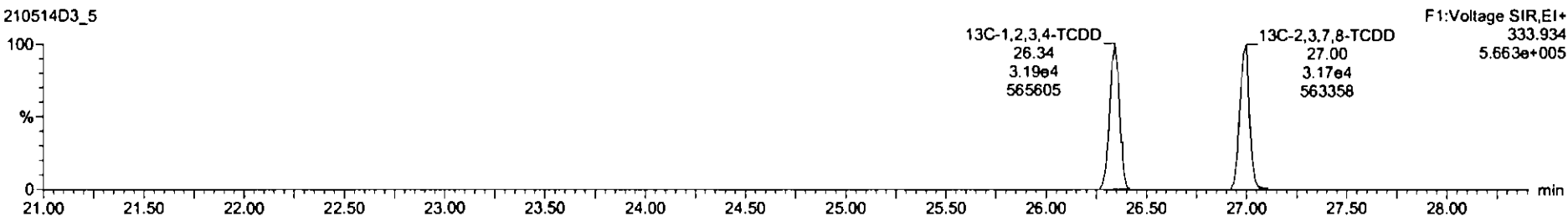
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210514D3\_5



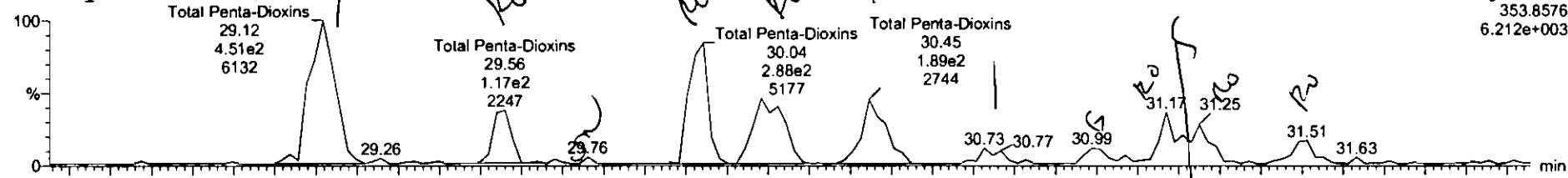
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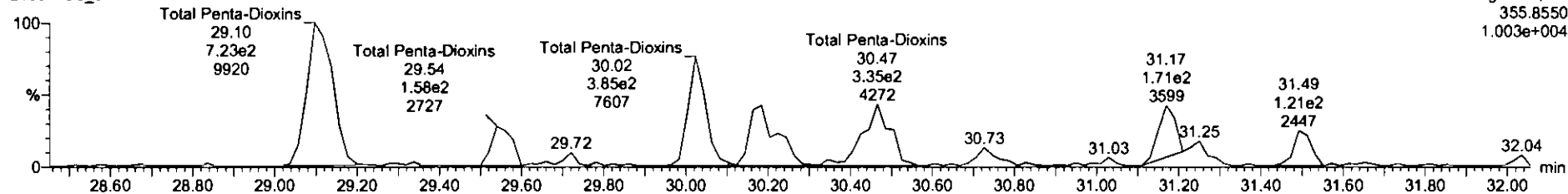
1,2,3,7,8-PeCDD

210514D3\_5



F2:Voltage SIR,EI+  
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6.212e+003

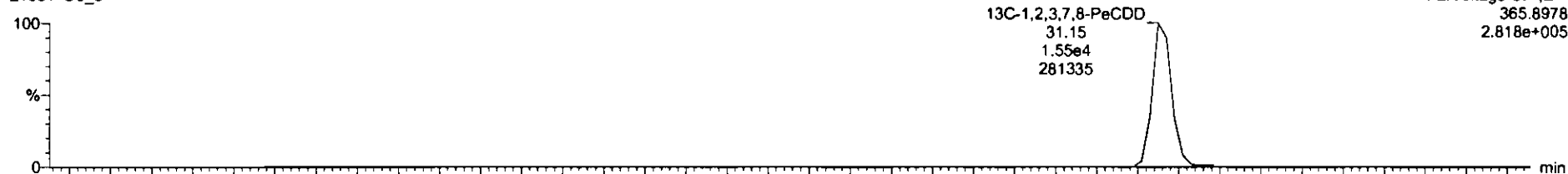
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F2:Voltage SIR,EI+  
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1.003e+004

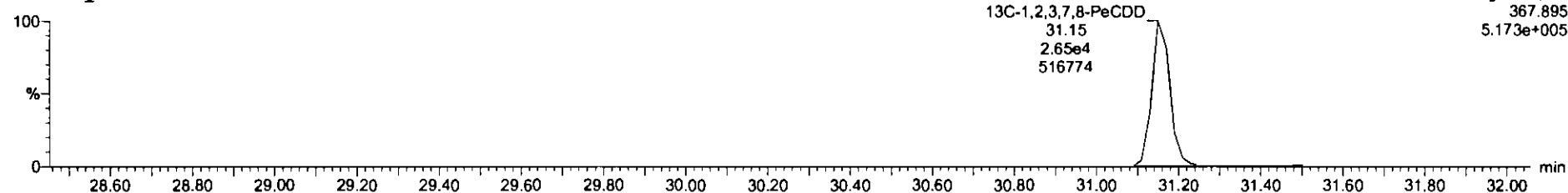
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210514D3\_5



F2:Voltage SIR,EI+  
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210514D3\_5



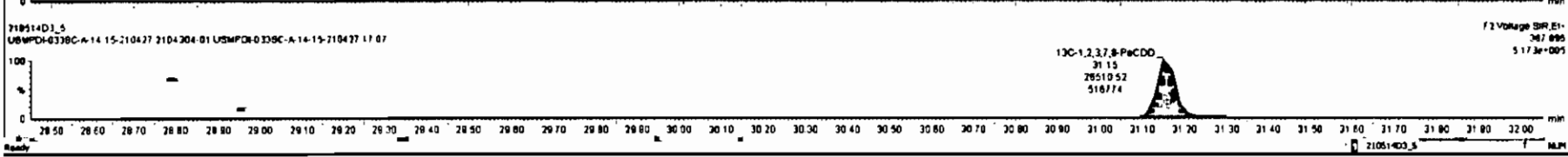
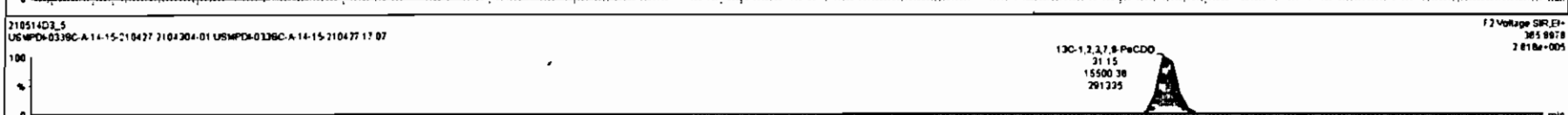
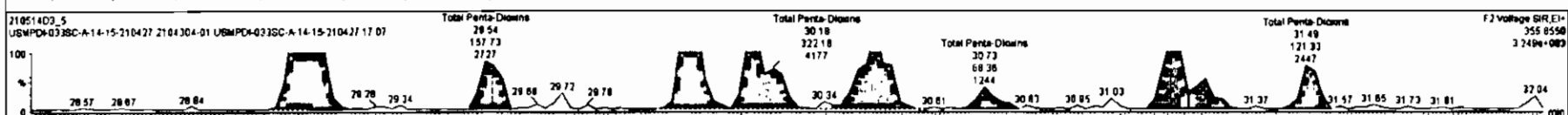
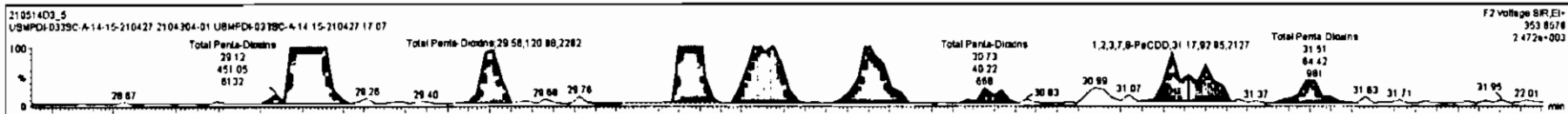
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5.173e+005

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21051403\_5 - 2104304-01 USMPC-A-14-15-210427 17 07 - USMPC-A-14-15-210427

Name	Resp	RA	rvy	RP	addict	RT	RRT	Conc	uMec	DL	EMPC
24 13C-OCDD	4.14e4	0.99	NO	0.15	10.000	43.23	1.228	274	60.2	4.14	
25 13C-2,3,7,8-TCDF	1.09e5	0.75	NO	1.09	10.000	26.43	1.023	175	88.3	0.698	
26 13C-1,2,3,7,8-PeCDF	7.37e4	1.82	NO	0.80	10.000	30.02	1.140	143	81.6	0.748	
27 13C-2,3,4,7,8-PeCDF	7.37e4	1.84	NO	0.79	10.000	30.98	1.179	172	88.7	0.780	
28 13C-1,2,3,4,7,8-HxCDF	6.03e4	0.50	NO	1.00	10.000	33.63	0.986	161	91.4	1.31	
29 13C-1,2,3,6,7,8-HxCDF	6.01e4	0.54	NO	1.00	10.000	33.78	0.980	175	88.3	1.28	
30 13C-2,3,4,7,8-HxCDF	6.05e4	0.54	NO	0.86	10.000	34.51	1.013	161	81.3	1.40	
31 13C-1,2,3,7,8-HxCDF	4.85e4	0.53	NO	0.85	10.000	35.63	1.044	170	85.9	1.54	
32 13C-1,2,3,4,6,7,8-HpCDF	3.78e4	0.43	NO	0.73	10.000	37.25	1.062	156	79.9	1.98	
33 13C-1,2,3,4,6,7,8,9-OCDF	6.39e4	0.43	NO	0.81	10.000	38.79	1.446	143	81.6	2.34	

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc.
4 Total Penta-Dioxins	30.18	2.419e2	3.222e2	0.75	YES	2.6098	0.00000
5 Total Penta-Dioxins	30.44	1.886e2	3.219e2	0.58	NO	2.7295	2.7295
6 Total Penta-Dioxins	30.73	4.022e1	6.835e1	0.58	NO	0.58091	0.58091
7 1,2,3,7,8-PeCDD	31.17	8.285e1	2.307e2	0.42	YES	1.2885	0.00000
8 Total Penta-Dioxins	31.25	8.104e1	9.884e1	0.95	YES	0.84524	0.00000
9 Total Penta-Dioxins	31.51	6.443e1	1.213e2	0.53	YES	0.89154	0.00000



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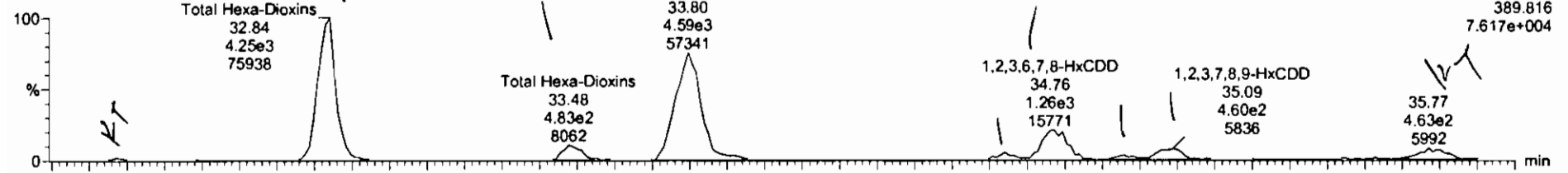
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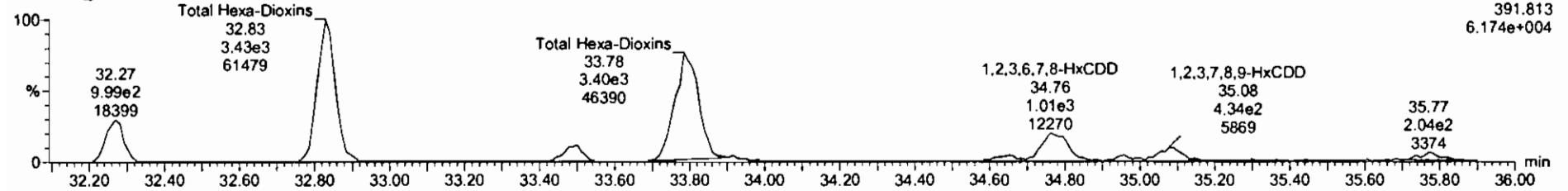
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1,2,3,4,7,8-HxCDD

210514D3\_5

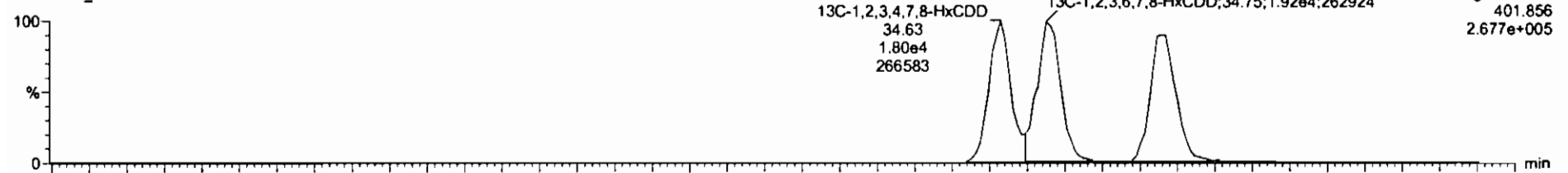


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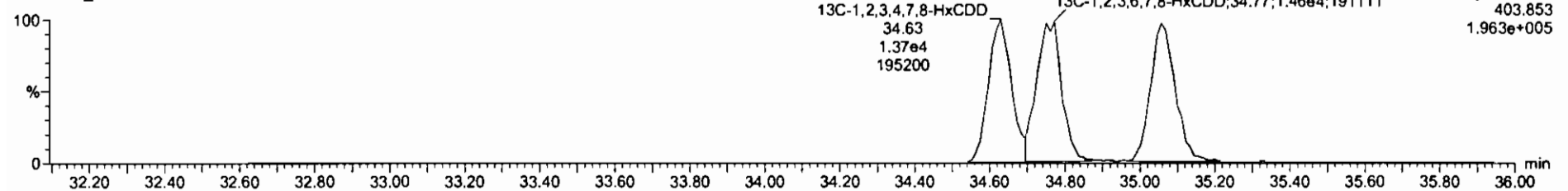


13C-1,2,3,4,7,8-HxCDD

210514D3\_5



210514D3\_5

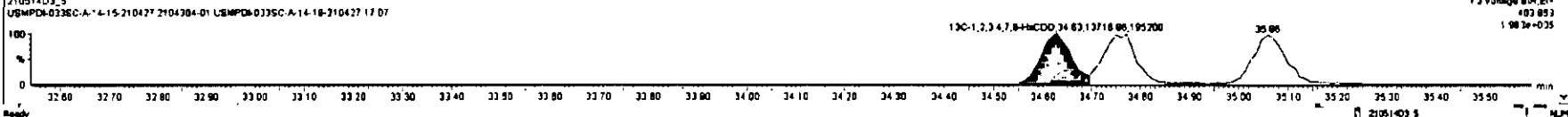
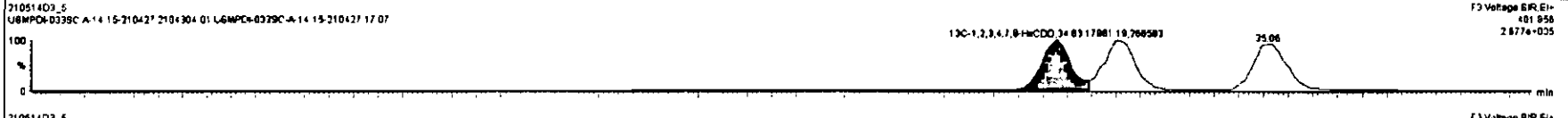
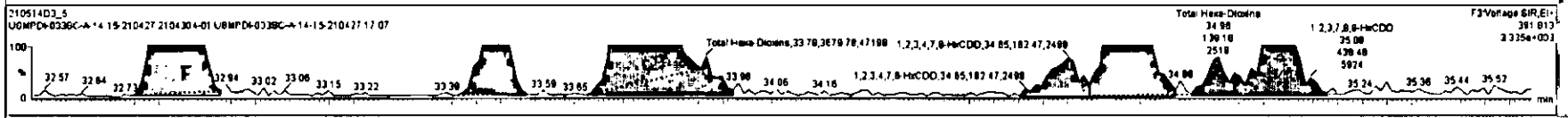
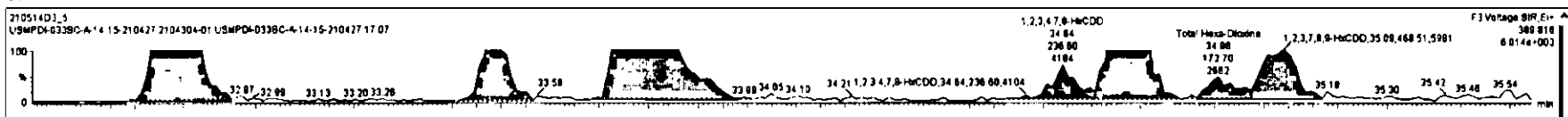




21051403\_5 - 2104304-01 USMPC-033SC-A 14-15-210427 17:07 USMPC-033SC-A 14-15-210427

Name	Resp	RA	nV	RPV	ntLevel	RT	RRT	Conc	%Rec	DL	EMPC
25 1,3C-2,3,7,8-TCDF	1.08e5	0.75	NO	1.08	10.000	28.42	1.000	175	80.3	0.588	
26 1,3C-1,2,3,7,8-PeCDF	7.37e4	1.82	NO	0.80	10.000	30.02	1.140	162	81.8	0.748	
27 1,3C-2,3,4,7,8-PeCDF	7.71e4	1.84	NO	0.79	10.000	30.99	1.178	172	85.7	0.780	
28 1,3C-1,2,3,4,7,8-HxCDF	6.03e4	0.90	NO	1.00	10.000	33.82	0.888	181	81.4	1.32	
29 1,3C-1,2,3,4,7,8-HxCDF	6.01e4	0.54	NO	1.03	10.000	33.78	0.860	175	80.3	1.28	
30 1,3C-2,3,4,7,8-HxCDF	5.08e4	0.50	NO	0.94	10.000	34.51	1.012	181	81.3	1.40	
31 1,3C-1,2,3,7,8,9-HxCDF	4.86e4	0.63	NO	0.86	10.000	36.82	1.044	170	85.9	1.64	
32 1,3C-1,2,3,4,6,7,8-HxCDF	3.79e4	0.43	NO	0.73	10.000	37.25	1.082	158	78.8	1.88	
33 1,3C-1,2,3,4,7,8,9-HxCDF	3.30e4	0.43	NO	0.81	10.000	38.23	1.190	162	82.0	2.34	

Name	RT	nt Resp	n2 Resp	RA	nV	EMPC	Conc
1 Total Hexa-Chlorine	32.84	4.278e3	3.464e3	1.24	NO	46.136	46.136
2 Total Hexa-Chlorine	33.48	4.844e2	3.902e2	1.21	NO	5.2845	5.2845
3 Total Hexa-Chlorine	33.80	4.619e3	3.688e3	1.28	NO	48.448	48.448
4 1,2,3,4,7,8-HxCDD	34.84	2.388e2	1.825e2	1.30	NO	2.2924	2.2924
5 1,2,3,7,8-HxCDD	34.76	1.248e3	8.986e2	1.25	NO	13.054	13.054
6 Total Hexa-Chlorine	34.98	1.727e3	1.382e2	1.24	NO	1.8583	1.8583
7 1,2,3,7,8-HxCDD	35.08	4.899e2	4.386e2	1.87	NO	5.3004	5.3004



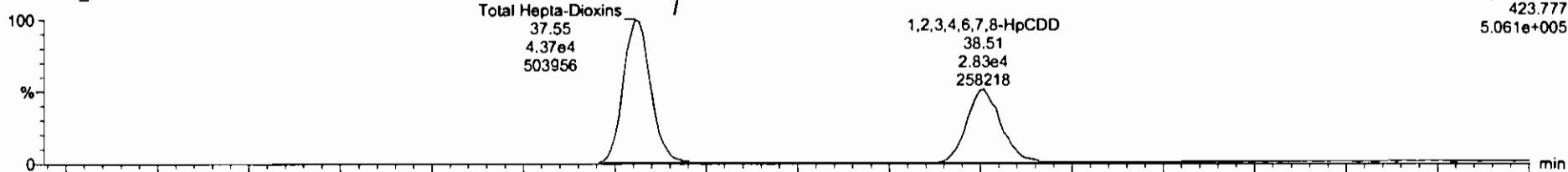
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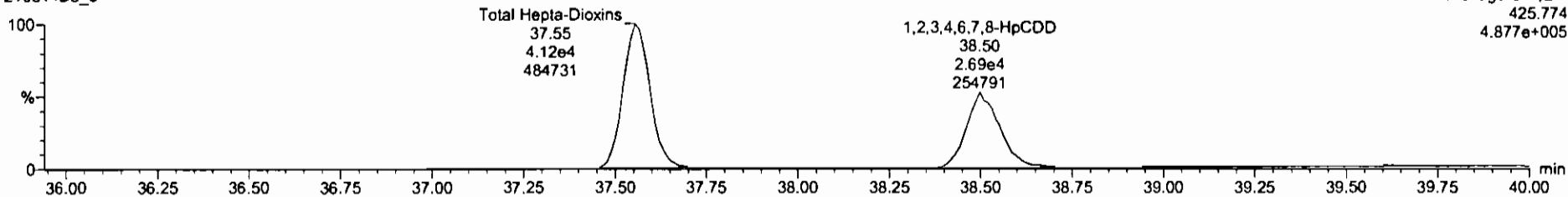
1,2,3,4,6,7,8-HpCDD

210514D3\_5



F4:Voltage SIR,EI+  
423.777  
5.061e+005

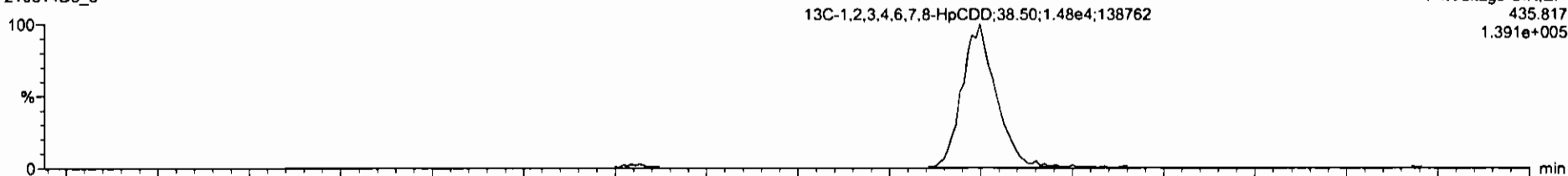
210514D3\_5



F4:Voltage SIR,EI+  
425.774  
4.877e+005

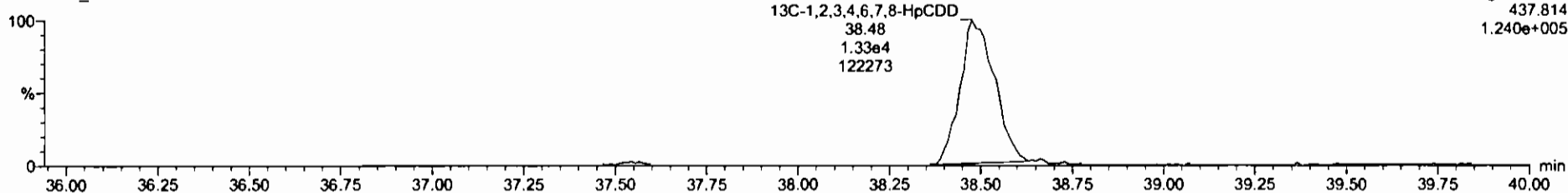
13C-1,2,3,4,6,7,8-HpCDD

210514D3\_5



F4:Voltage SIR,EI+  
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1.391e+005

210514D3\_5

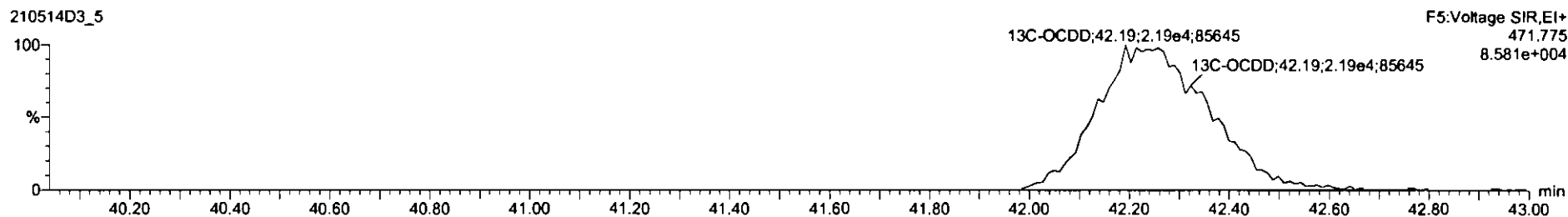
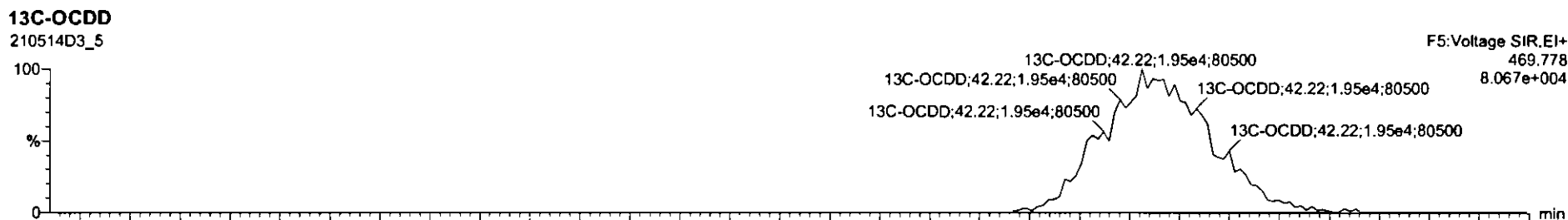
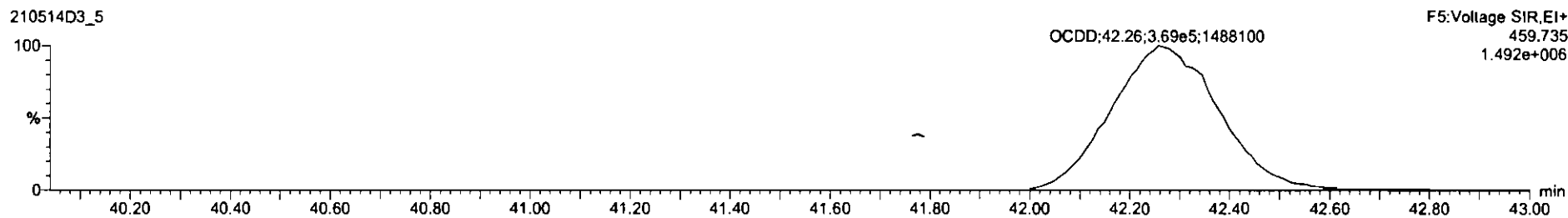
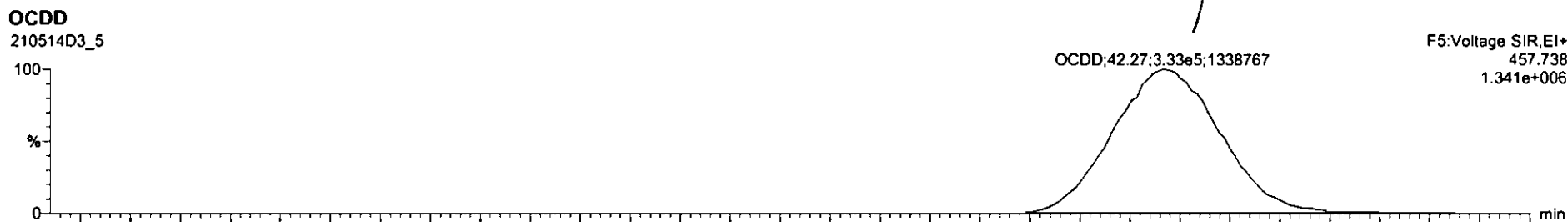


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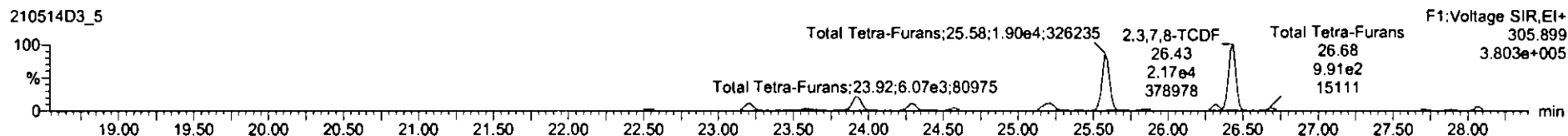
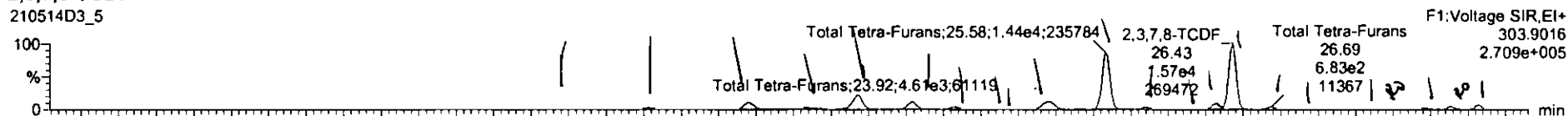


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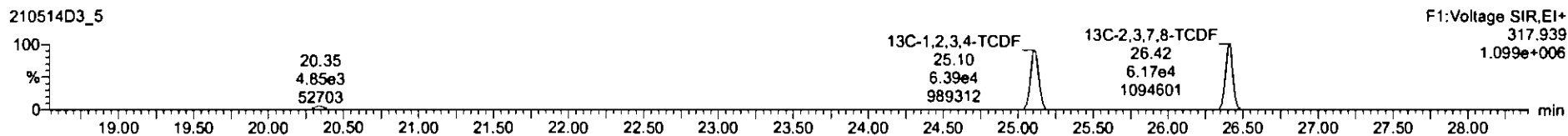
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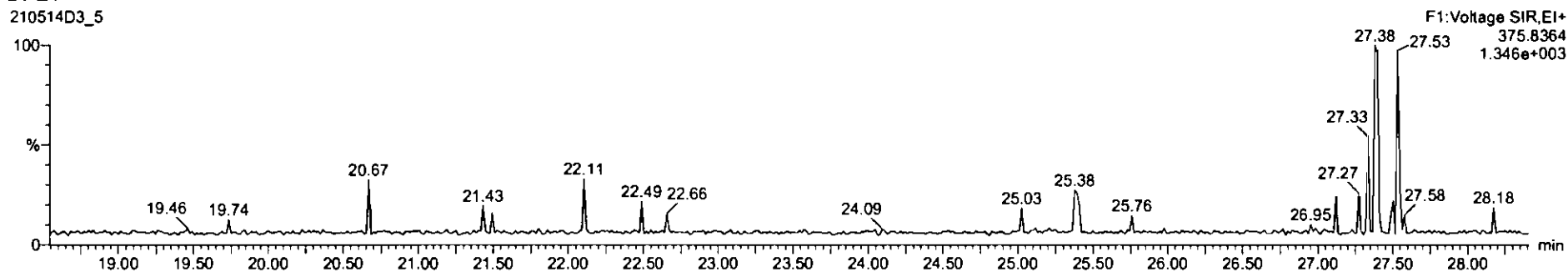
2,3,7,8-TCDF



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

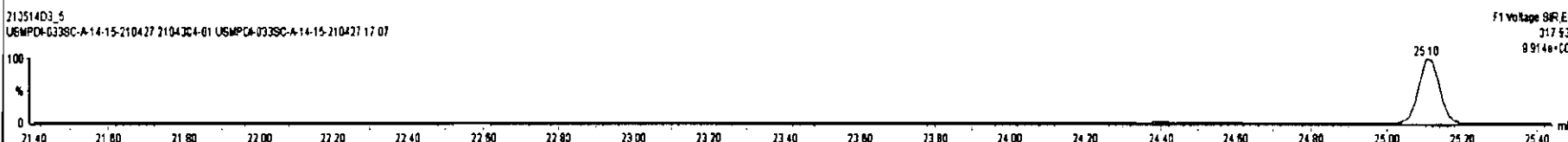
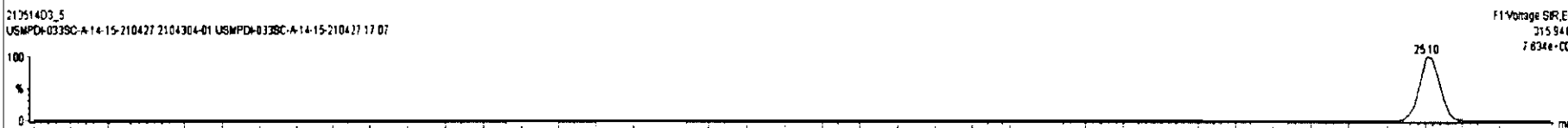
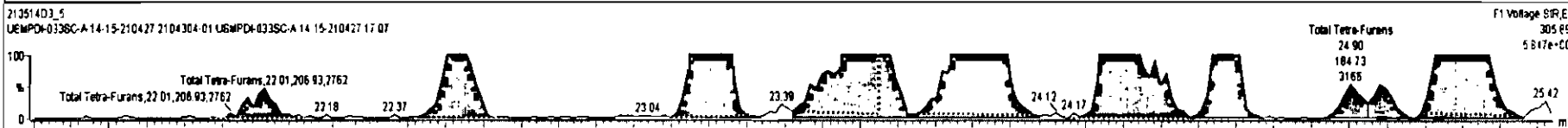
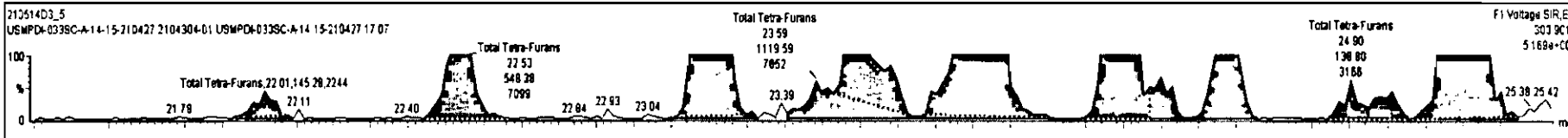


DPE1



Name	Resp	RA	nHy	RF	wtAdj	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10.089			527		5.65	927
43 Total Tetra-Furans				0.95	10.089			248		0.268	251
44 1st Func. Penta-Furans				0.95	10.089			41.2		0.0847	41.2
45 Total Penta-Furans				0.95	10.089			392		0.536	397
46 Total Hexa-Furans				1.12	10.089			669		1.34	669
47 Total Hepta-Furans				1.16	10.089			739		3.01	736
48 PFK1											
49 PFK2											
50 PFK3											

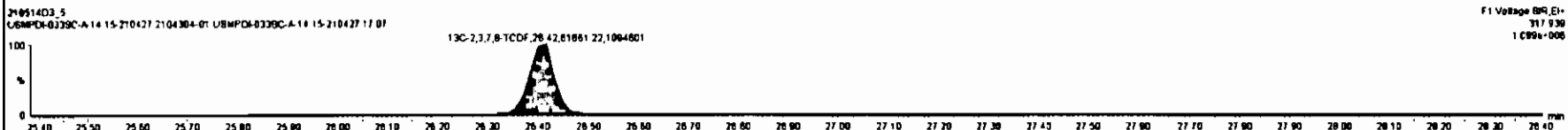
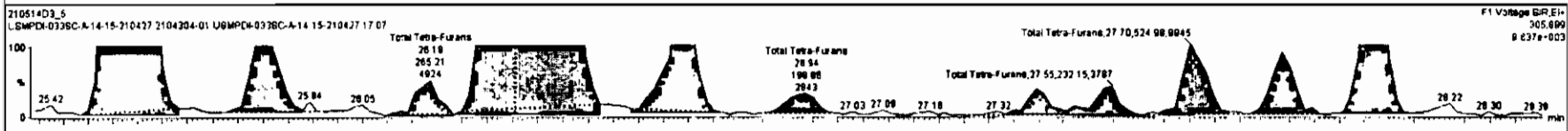
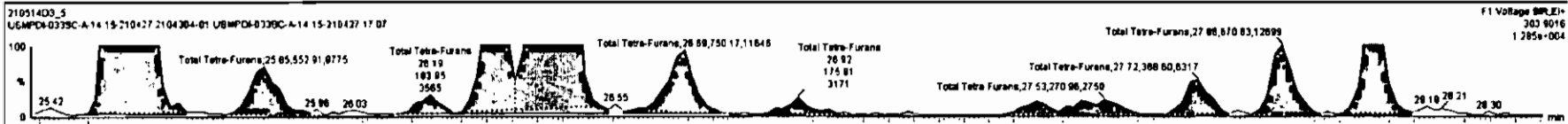
Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc.
1 Total Tetra-Furans	22.01	1.453e2	2.069e2	0.70	NO	0.74725	0.74725
2 Total Tetra-Furans	22.53	5.484e2	6.791e2	0.81	NO	2.8042	2.6042
3 Total Tetra-Furans	23.21	2.193e3	2.913e3	0.75	NO	10.834	10.834
4 Total Tetra-Furans	23.98	1.120e3	1.562e3	0.71	NO	5.7309	5.7309
5 Total Tetra-Furans	23.92	4.686e3	6.190e3	0.76	NO	23.076	23.076
6 Total Tetra-Furans	24.29	2.385e3	2.989e3	0.80	NO	11.313	11.313
7 Total Tetra-Furans	24.98	6.995e2	9.849e2	0.72	NO	3.5311	3.5311
8 Total Tetra-Furans	24.90	1.388e2	1.847e2	0.75	NO	0.88639	0.88639
9 Total Tetra-Furans	25.01	1.438e2	1.878e2	0.77	NO	0.70293	0.70293



21051403\_5 - 2104304-01 USMPCD-033SC-A-14 15-210427 17 07 - USMPCD-033SC-A-14-15-210427

Name	Peak	RA	nly	RP	wt/Avd	RT	RRT	Conc	%Rec	DL	BPIC
Total Hepta-Furane				1.07	98.000			827	5.85	827	
Total Tetra-Furane				0.88	98.000			549	0.280	251	
1st Func. Penta-Furane				0.95	10.000			41.2	0.0847	41.2	
Total Penta-Furane				0.95	10.000			362	0.536	367	
Total Hexa-Furane				1.12	10.000			858	1.34	859	
Total Hepta-Furane				1.18	10.000			738	3.01	730	

Name	RT	m1 Peak	m2 Peak	RA	nly	BPIC	Conc
Total Tetra-Furane	26.82	1.750e2	1.980e2	0.88	NO	0.78512	0.78512
Total Tetra-Furane	27.40	1.480e2	1.890e2	0.77	NO	0.71182	0.71182
Total Tetra-Furane	27.53	2.710e2	2.320e2	1.17	YES	0.87178	0.00000
Total Tetra-Furane	27.72	3.800e2	5.250e2	0.70	NO	1.8898	1.8898
Total Tetra-Furane	27.88	6.700e2	4.650e2	1.44	YES	1.7482	0.00000
Total Tetra-Furane	28.87	1.018e3	1.300e3	0.78	NO	4.8300	4.8300



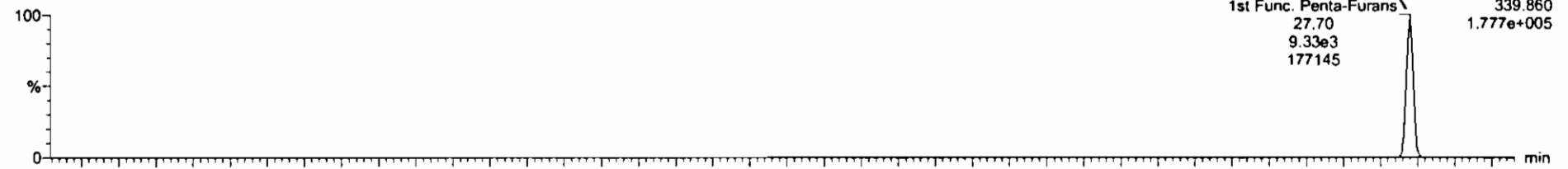
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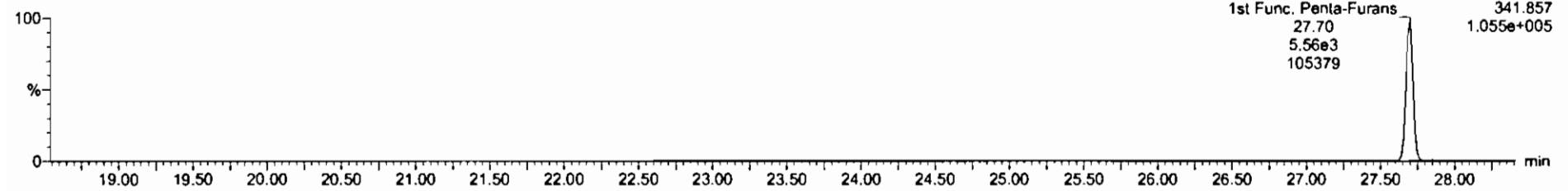
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1st Func. Penta-Furans

210514D3\_5

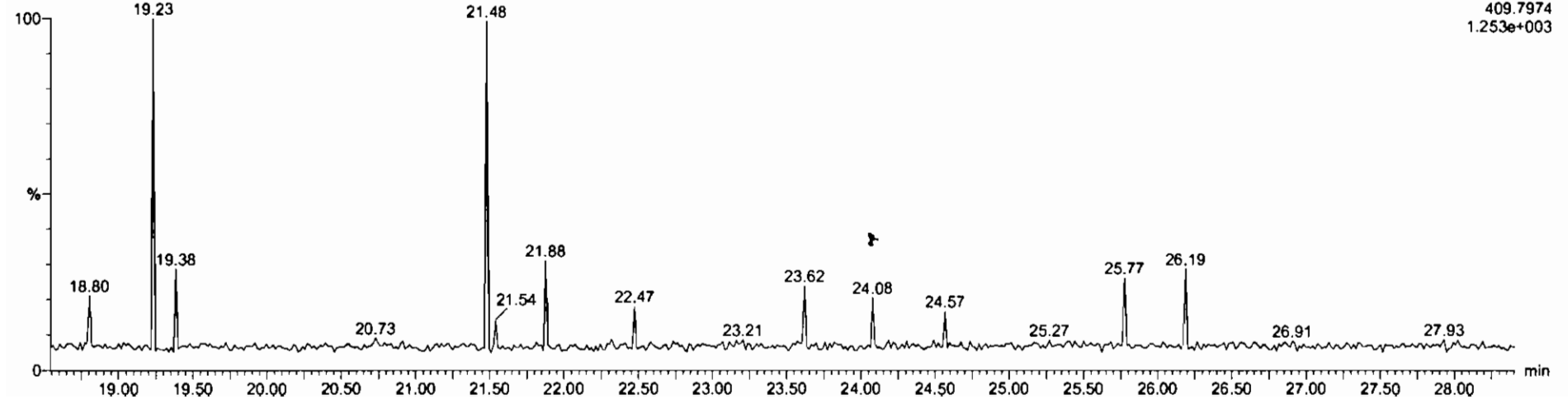


210514D3\_5



DPE6

210514D3\_5

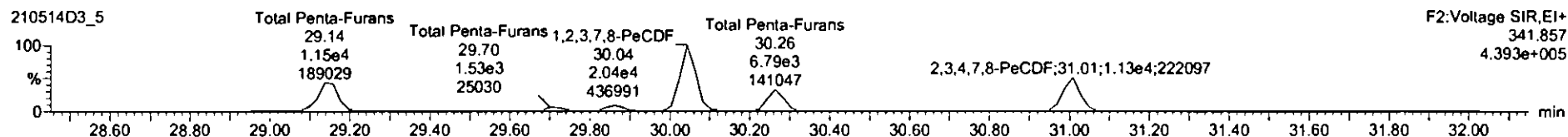
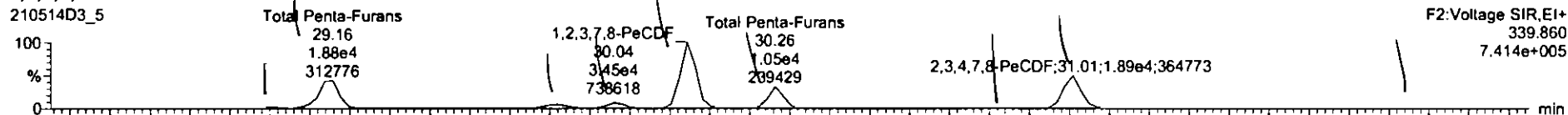


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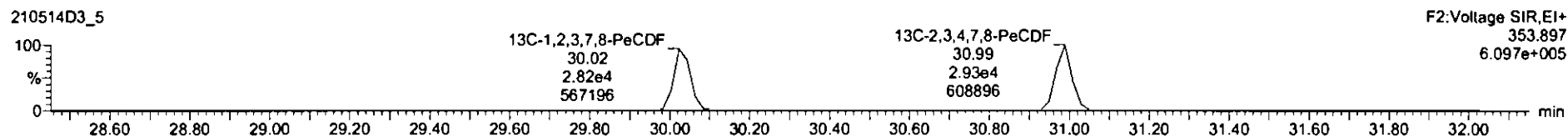
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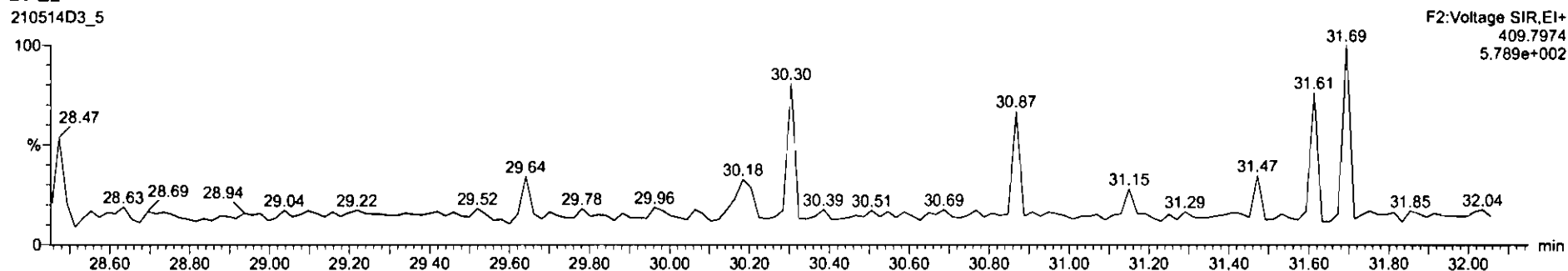
1,2,3,7,8-PeCDF



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



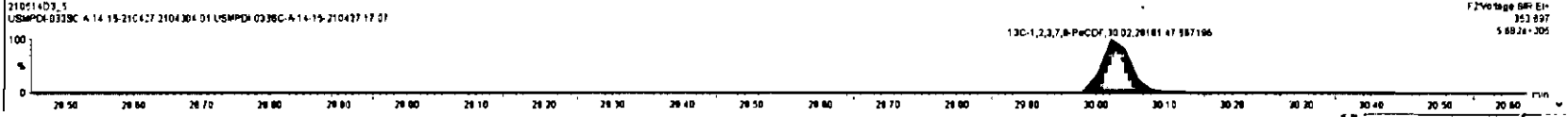
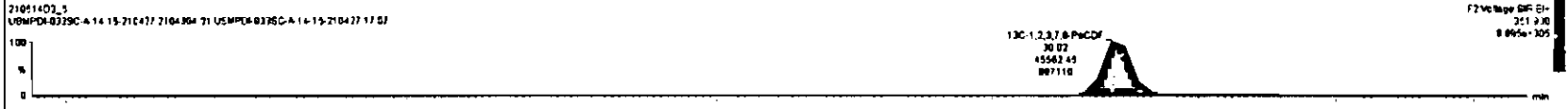
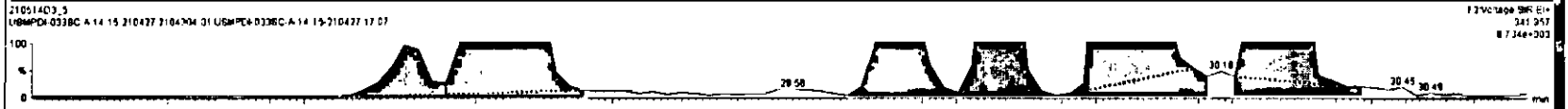
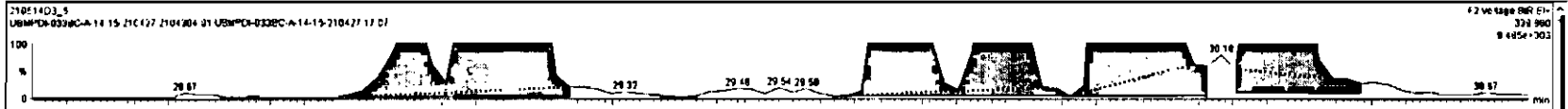
DPE2

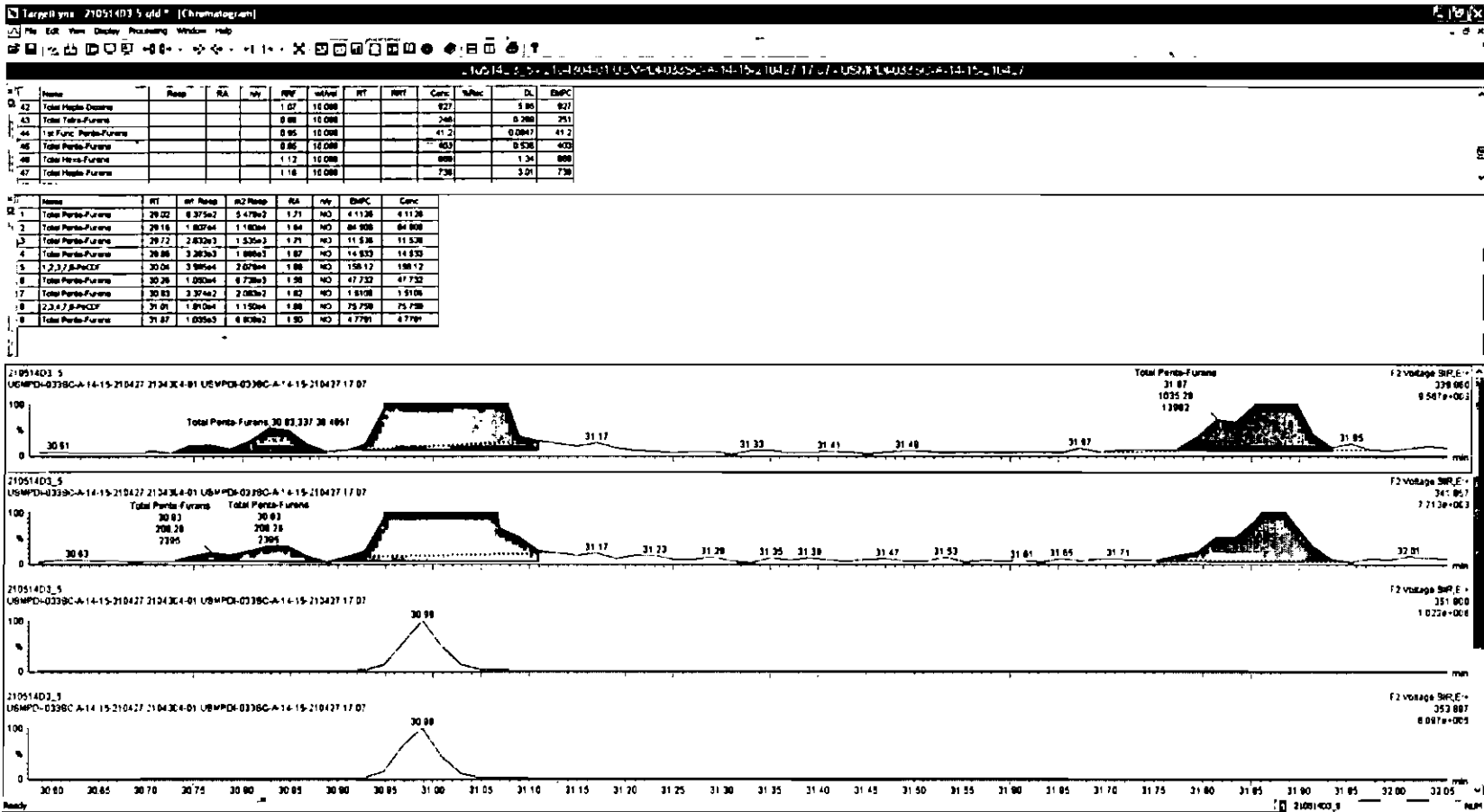




Name	Resp	RA	July	RPV	Int-We	RT	RRT	Conc	%Rec	IS	ISPC
Total Penta-Furans				1.87	10.080			827		5.86	837
Total Hexa-Furans				8.98	10.080			240		0.289	251
Total Furans				9.95	10.080			41.2		0.0947	41.2
Total Penta-Furans				8.95	10.080			452		0.538	450
Total Hexa-Furans				1.12	10.080			869		1.34	860
Total Furans				1.18	10.080			738		3.01	736

Name	RT	Int Resp	IS Resp	RA	July	RPV	Conc
Total Penta-Furans	28.02	8.375e2	5.479e2	1.71	NO	4.1126	4.1126
Total Penta-Furans	29.16	1.807e4	1.180e4	1.64	NO	84.805	84.805
Total Penta-Furans	29.72	2.832e3	1.839e3	1.71	NO	11.8.8	11.536
Total Penta-Furans	29.86	3.283e3	1.889e3	1.87	NO	14.533	14.533
1,2,3,7,8-PeCDF	30.04	3.515e4	2.689e4	1.88	NO	198.88	198.88
Total Penta-Furans	30.28	1.110e4	7.185e3	1.86	NO	90.980	90.980
Total Penta-Furans	30.83	3.374e2	2.083e2	1.82	NO	1.5106	1.5106
2,3,7,8-PeCDF	31.01	1.810e4	1.194e4	1.88	NO	75.758	75.758
Total Penta-Furans	31.87	1.025e2	6.939e2	1.50	NO	4.7791	4.7791



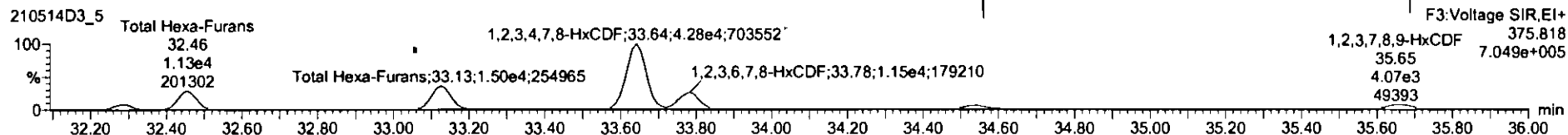
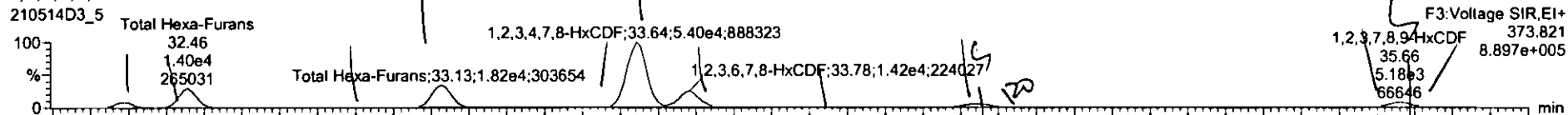


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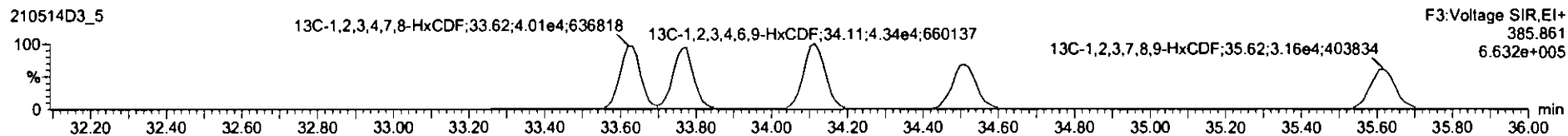
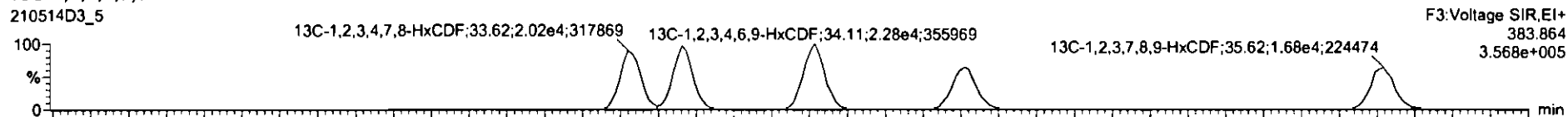
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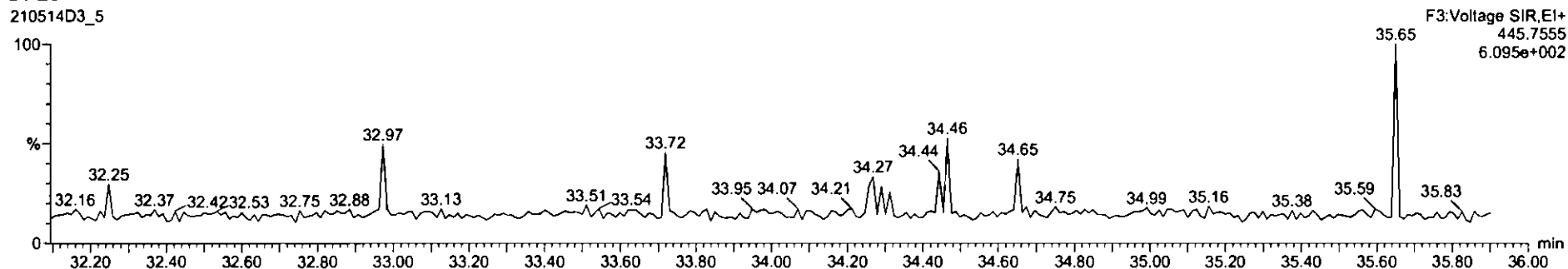
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13C-1,2,3,4,7,8-HxCDF



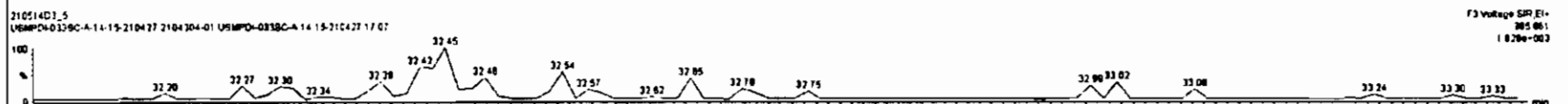
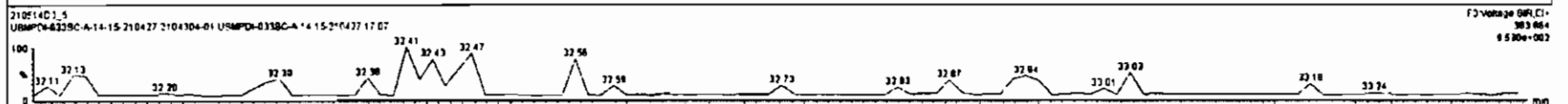
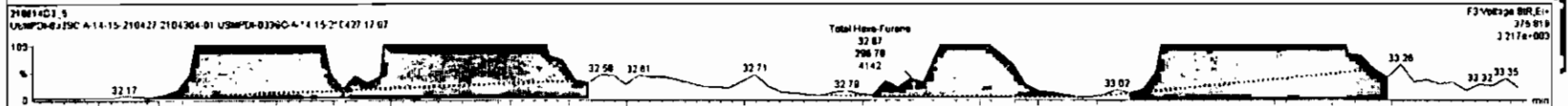
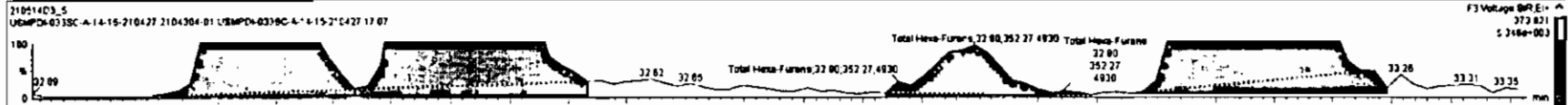
DPE3



21051403.5 2104204 01 USMPC-0339C-A 14-15-210427 17 07 USMPC-0339C-A 14-15-210427

Name	Resp	RA	nly	RPV	wt/wt	RT	RP1	Conc	%Inc	DL	EMPC
42 Total Hexa-Chloro			1.07	10.000		927			5.65	827	
43 Total Hexa-Chloro			0.86	10.000		248		0.289	251		
44 1st Func. Perfluoro			0.95	10.000		41.2		0.0897	41.2		
45 Total Perfluoro			0.85	10.000		406		0.530	406		
46 Total Hexa-Furane			1.12	10.000		844		1.34	871		
47 Total Hexa-Furane			1.18	10.000		738		3.01	738		

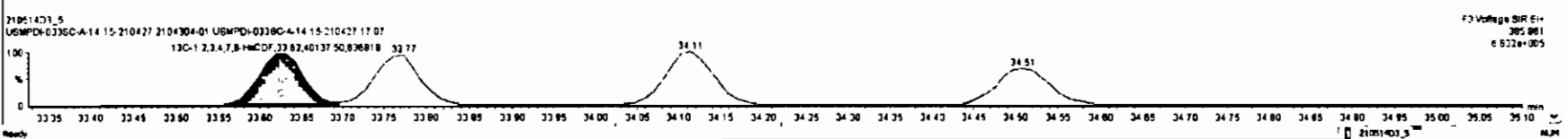
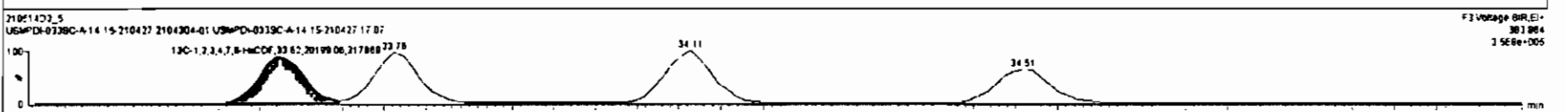
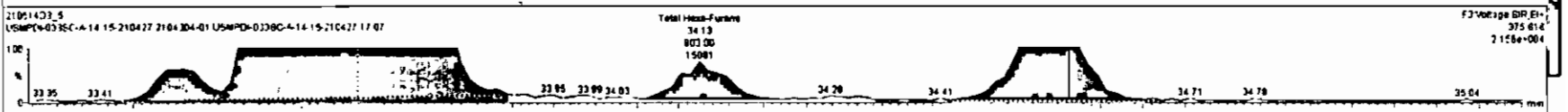
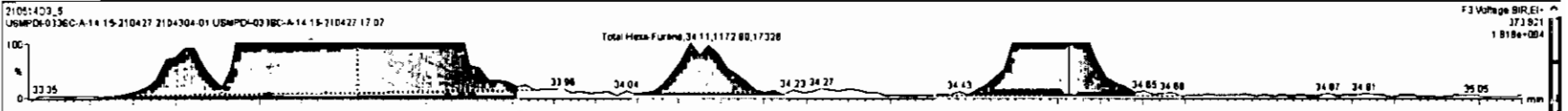
Name	RT	wt Resp	w2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furane	32.28	4.087e3	3.136e3	1.30	NO	23.288	23.288
2 Total Hexa-Furane	32.46	1.428e4	1.145e4	1.24	NO	82.891	82.891
3 Total Hexa-Furane	32.80	3.525e7	2.889e2	1.19	NO	2.0857	2.0857
4 Total Hexa-Furane	33.13	1.863e4	1.524e4	1.21	NO	108.75	108.75
5 Total Hexa-Furane	33.53	1.026e3	8.549e2	1.18	NO	8.0275	8.0275
6 1,2,3,4,7,8-HxCDF	33.84	5.432e4	4.298e4	1.35	NO	305.85	305.85
7 1,2,3,6,7,8-HxCDF	33.78	1.452e4	1.184e4	1.23	NO	80.808	80.808
8 Total Hexa-Furane	34.11	1.173e3	9.032e2	1.30	NO	8.7098	8.7098
9 2,3,4,6,7,8-HxCDF	34.53	2.873e3	2.371e3	1.21	NO	18.382	18.382
10 Total Hexa-Furane	34.96	9.862e2	8.892e2	1.43	YES	5.9578	0.00000
11 1,2,3,7,8-HxCDF	35.84	1.246e3	1.079e3	1.15	NO	8.8484	8.8484

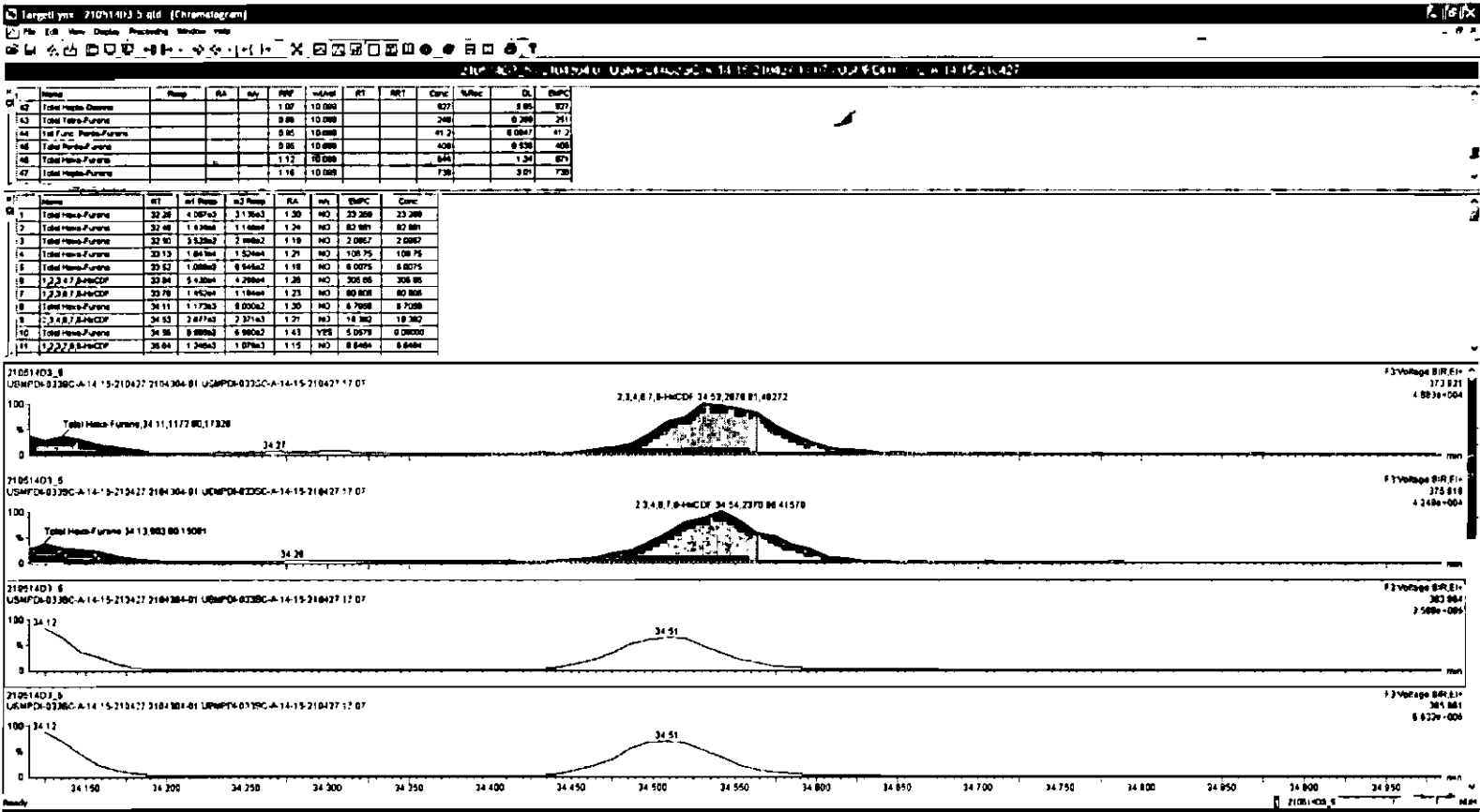


21051403\_5 - 2104304-01 USMPD-0338C-A-14-15-210427 17 07 - USMPD-0338C-A-14-15-210427

Name	Resp	RA	rel	RRF	wtVal	RT	NRT	Conc	%Rec	DL	EMPC
42 Total Hexa-Furans			1.87	10.000		827		5.85	827		
43 Total Tetra-Furans			0.88	10.000		248		0.288	251		
44 1st Func. Penta-Furans			0.85	10.000		412		0.0847	412		
46 Total Penta-Furans			0.95	10.000		406		0.536	406		
48 Total Hexa-Furans			1.12	10.000		864		1.24	871		
47 Total Hepta-Furans			1.16	10.000		738		3.01	738		

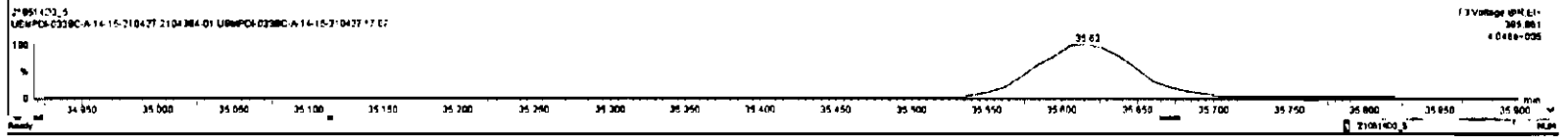
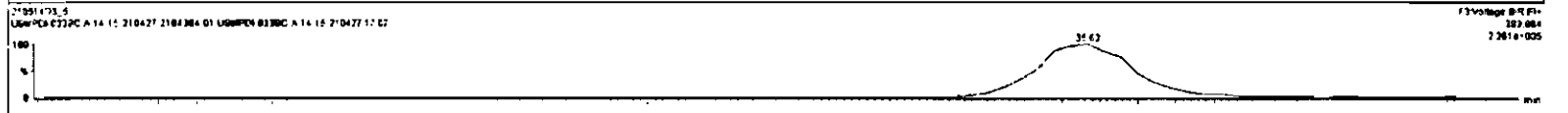
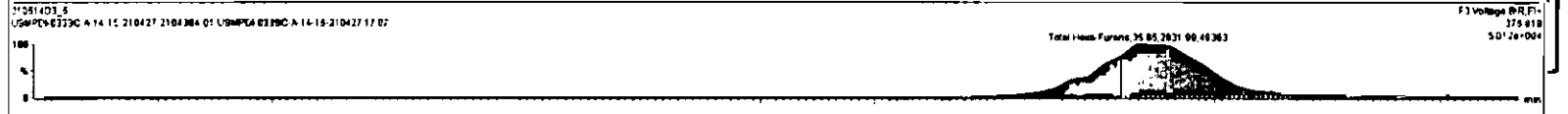
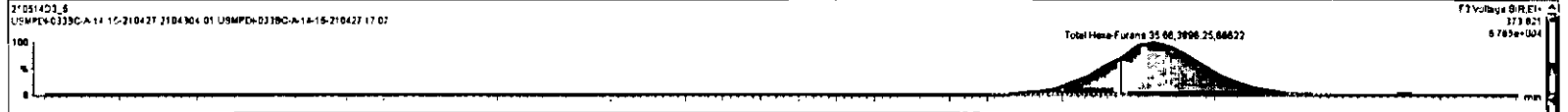
Name	RT	rel Resp	wt Resp	RA	rel	EMPC	Conc
1 Total Hexa-Furans	32.26	4.087e3	3.138e3	1.30	NO	23.288	23.288
2 Total Hexa-Furans	32.46	1.426e4	1.115e4	1.24	NO	82.881	82.881
3 Total Hexa-Furans	32.80	3.522e2	2.988e2	1.18	NO	2.0857	2.0857
4 Total Hexa-Furans	33.13	1.842e4	1.525e4	1.21	NO	108.75	108.75
5 Total Hexa-Furans	33.52	1.026e3	8.645e2	1.18	NO	8.0075	8.0075
6 1,2,3,4,7,8-HxCDF	33.84	8.420e4	4.268e4	1.28	NO	326.86	326.86
7 1,2,3,6,7,8-HxCDF	33.78	1.462e4	1.184e4	1.23	NO	80.808	80.808
8 Total Hexa-Furans	34.11	1.173e3	8.000e2	1.30	NO	8.7098	8.7098
9 2,3,4,6,7,8-HxCDF	34.83	2.871e3	2.371e3	1.21	NO	18.382	18.382
10 Total Hexa-Furans	34.58	8.983e2	8.980e2	1.43	YES	5.0278	0.00000
11 1,2,3,7,8-HxCDF	36.84	1.246e3	1.079e3	1.15	NO	8.6484	8.6484





Peak	Area	RA	RV	RPY	Weight	RT	RPY	Comp	%Area	DL	EMPC
42	Total Hexa-Furane			1.07	10.088			927	5.64	927	
43	Total Tetra-Furane			0.98	10.088			349	0.268	349	
44	Total Di-Furane			0.95	10.088			41.2	0.0047	41.2	
45	Total Penta-Furane			0.95	10.088			408	0.538	408	
46	Total Hexa-Furane			1.12	10.088			664	1.34	671	
47	Total Hepta-Furane			1.18	10.088			736	3.01	736	

Peak	Area	RA	RV	RPY	Weight	RT	RPY	Comp	%Area	DL	EMPC
1	Total Hexa-Furane	32.28	4.051e3	3.138e3	1.39	NO	37.289	25.289			
2	Total Hexa-Furane	32.48	1.426e4	1.145e4	1.24	NO	32.681	62.991			
3	Total Hexa-Furane	32.90	3.523e2	2.888e2	1.19	NO	2.087	2.087			
4	Total Hexa-Furane	33.13	1.643e4	1.524e4	1.21	NO	189.75	128.75			
5	Total Hexa-Furane	33.62	1.003e3	8.945e2	1.19	NO	6.0075	6.0075			
6	1,2,3,4,5,6-HexClF	33.84	5.428e4	4.280e4	1.28	NO	305.85	306.85			
7	1,2,3,5,6-HexClF	33.78	1.453e4	1.184e4	1.25	NO	80.838	80.838			
8	Total Hexa-Furane	34.11	1.173e3	9.053e2	1.38	NO	6.7088	6.7088			
9	1,2,3,4,5,6-HexClF	34.33	2.877e3	2.371e3	1.21	NO	18.282	18.282			
10	Total Hexa-Furane	34.58	8.983e2	8.983e2	1.43	YES	1.0076	0.00000			
11	1,2,3,5,6-HexClF	35.84	1.268e3	1.070e3	1.15	NO	8.8494	8.8494			

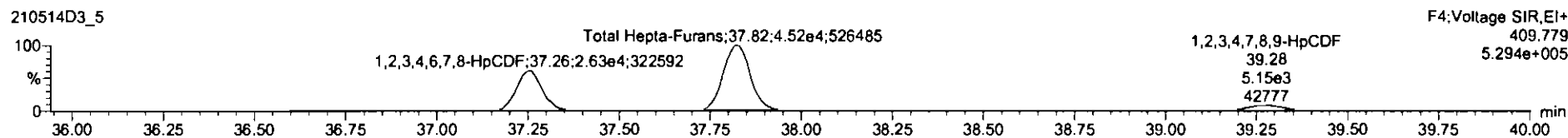
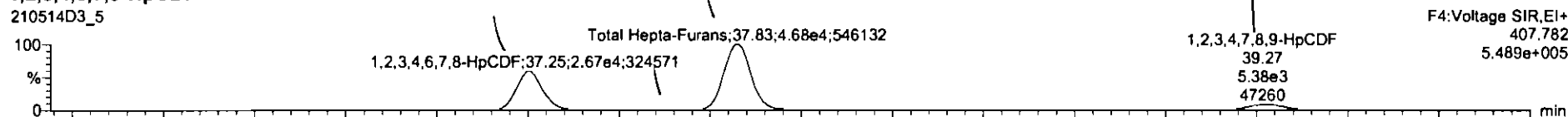


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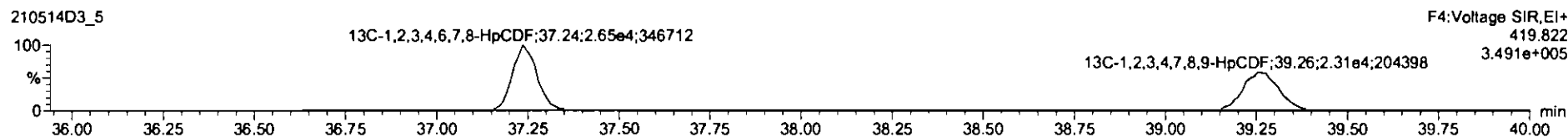
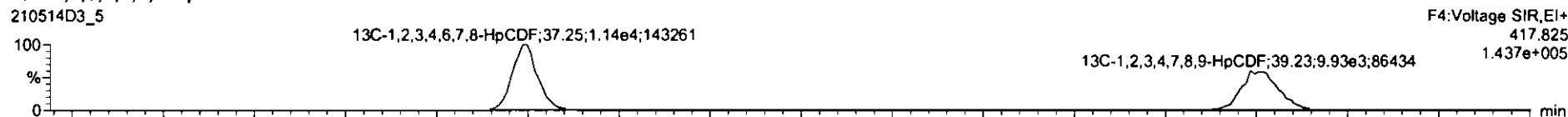
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Name: 210514D3\_5, Date: 14-May-2021, Time: 18:57:42, ID: 2104304-01 USMPDI-033SC-A-14-15-210427 17.07, Description: USMPDI-033SC-A-14-15-210427

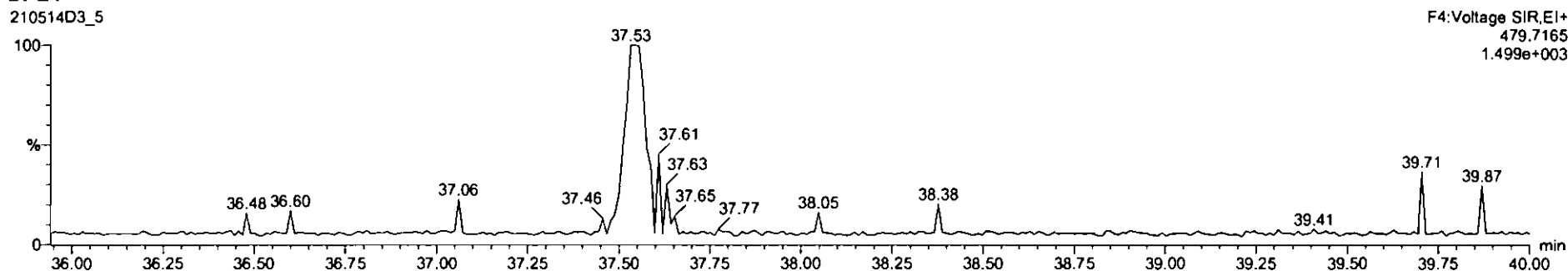
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13C-1,2,3,4,6,7,8-HpCDF



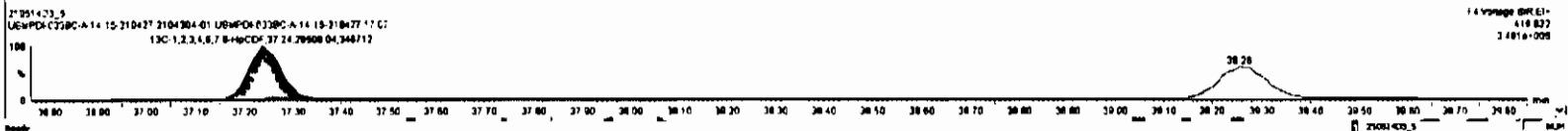
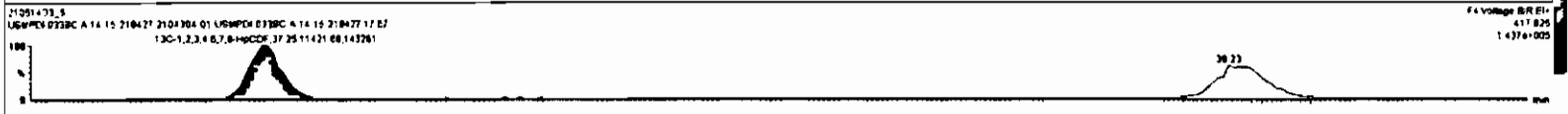
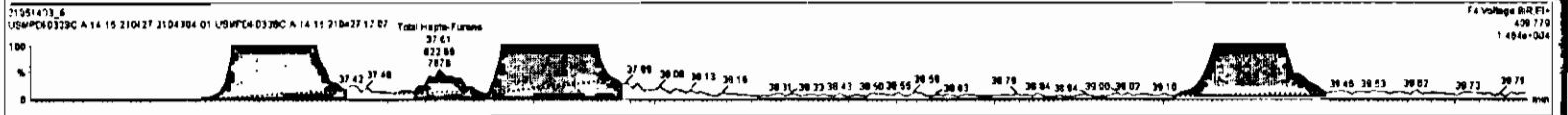
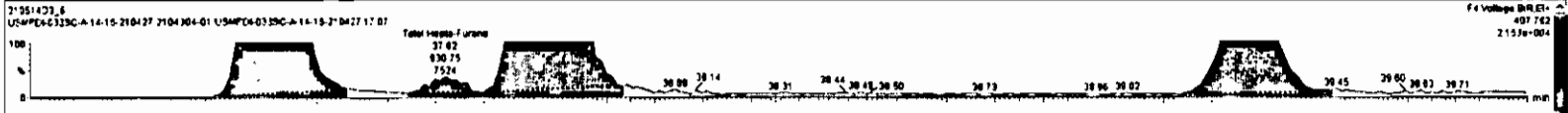
DPE4





Name	RT	off Retap	nd Retap	RA	rdy	thPC	Calc	%Area	DL	thPC
42 Total Hepta-Furane	1.07	10.000					927	5.85	927	
43 Total Tetra-Furane	0.98	10.000					348	0.200	281	
44 1st Furc. Peris-Furane	0.95	10.000					41.2	0.0047	41.2	
45 2nd Furc. Peris-Furane	0.95	10.000					406	0.526	406	
46 Total Hept-Furane	1.12	10.000					944	1.34	871	
47 Total Hepta-Furane	1.18	10.000					753	9.01	753	

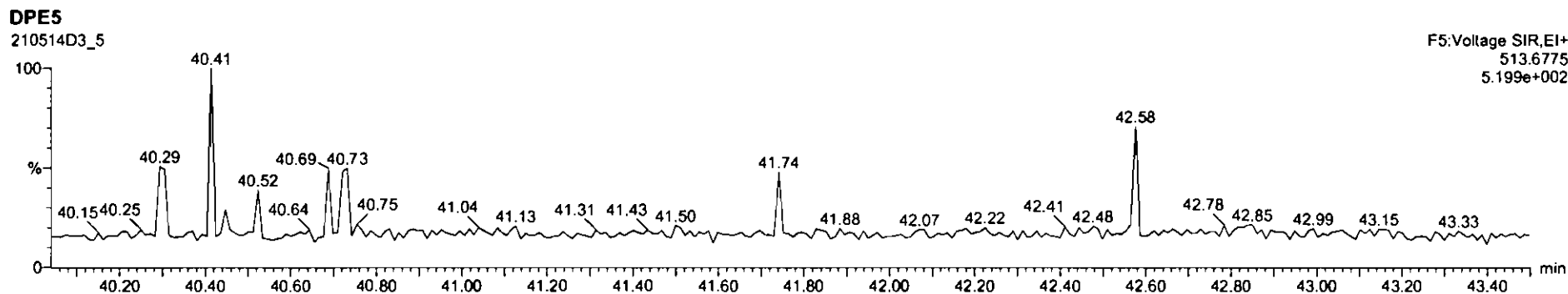
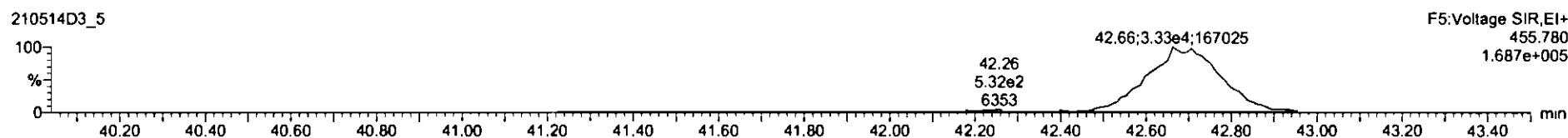
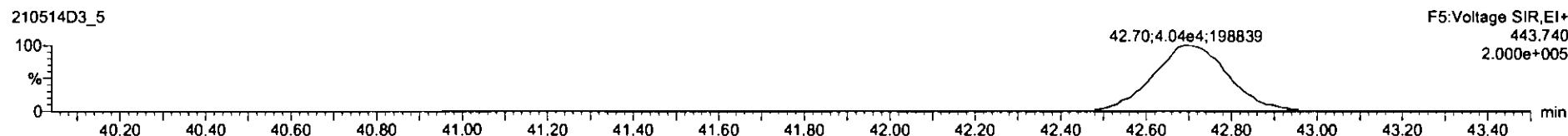
Name	RT	off Retap	nd Retap	RA	rdy	thPC	Calc
1,2,3,4,6,7,8-HpCDF	37.28	2.762e4	2.8e3e4	1.02	NO	241.38	241.31
Total Hepta-Furane	37.82	8.307e2	8.279e2	1.01	NO	8.0546	8.0345
Total Hepta-Furane	37.83	4.752e4	4.800e4	1.03	NO	490.18	490.18
1,2,3,4,6,7,8-HpCDF	38.27	5.845e3	5.329e3	1.06	NO	56.482	56.482



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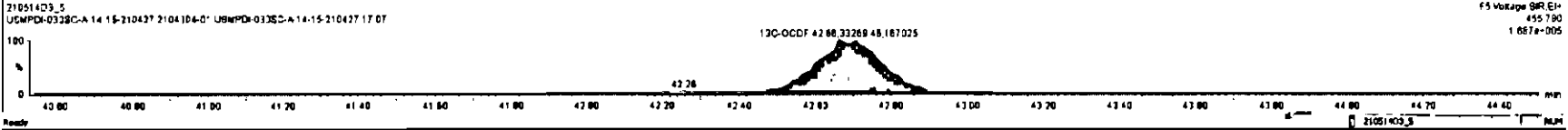
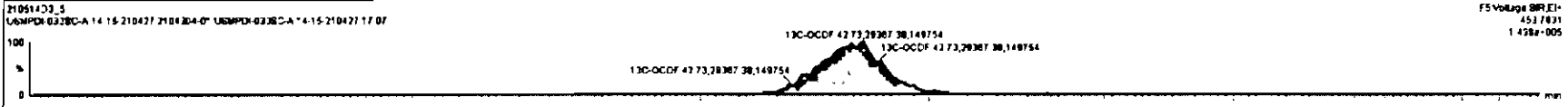
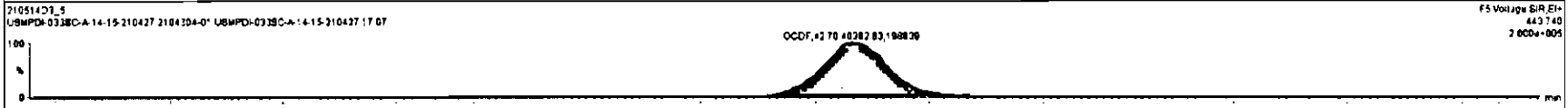
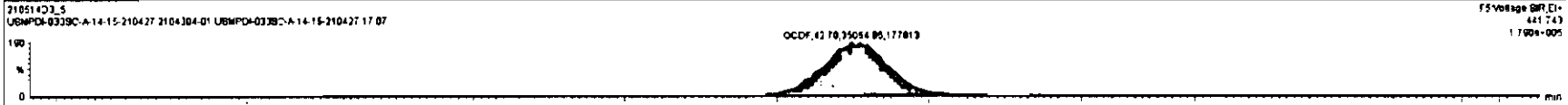
Name: 210514D3\_5, Date: 14-May-2021, Time: 18:57:42, ID: 2104304-01 USMPDI-033SC-A-14-15-210427 17.07, Description: USMPDI-033SC-A-14-15-210427



21051403\_5 - 2104304-01 USMPC4033SC-A-14-15-210427-17-07 - USMPC4033SC-A-14-15-210427

#	Name	Peak	RA	inj	RFV	wAve	RT	RRT	Conc	%Rec	DL	EMPC
16	1,2,3,4,7,8,9-OCDF	1.10e4	1.08	NO	1.19	10.000	38.27	1.001	56.5		3.73	95.3
17	OCDF	7.84e4	0.67	NO	0.91	10.000	42.76	0.868	525		0.79	524
18	13C-2,3,7,8-10CDD	5.90e4	0.73	NO	1.15	10.000	27.80	1.625	189	86.3	0.811	
19	13C-1,2,3,7,8-PeCDD	4.20e4	0.58	NO	0.80	10.000	31.15	1.183	187	84.1	0.560	
20	13C-1,2,3,4,7,8-PeCDD	3.17e4	1.21	NO	0.86	10.000	34.83	1.015	147	74.1	1.02	
21	13C-1,2,3,6,7,8-PeCDD	3.97e4	1.32	NO	0.72	10.000	34.75	1.018	141	71.1	0.871	

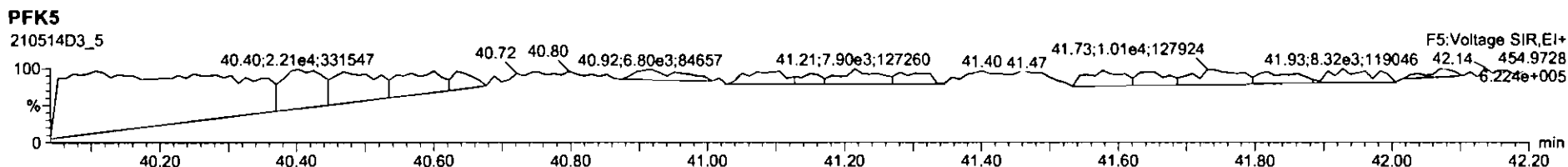
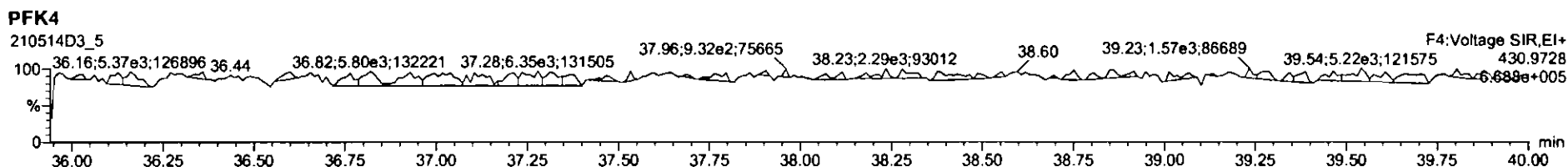
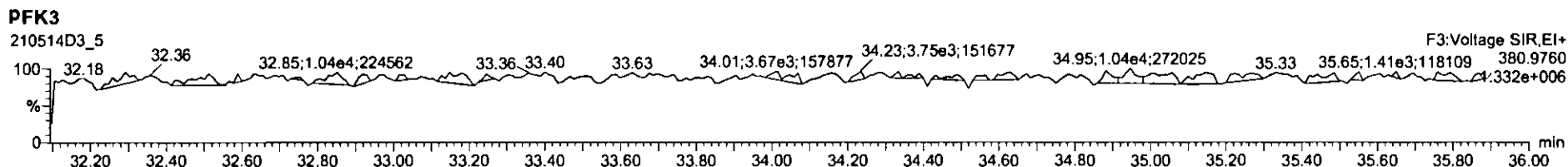
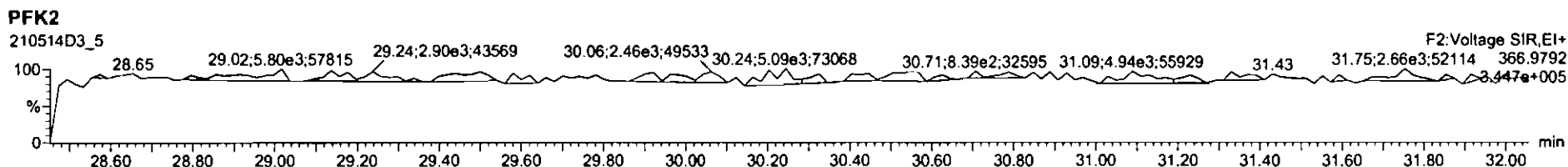
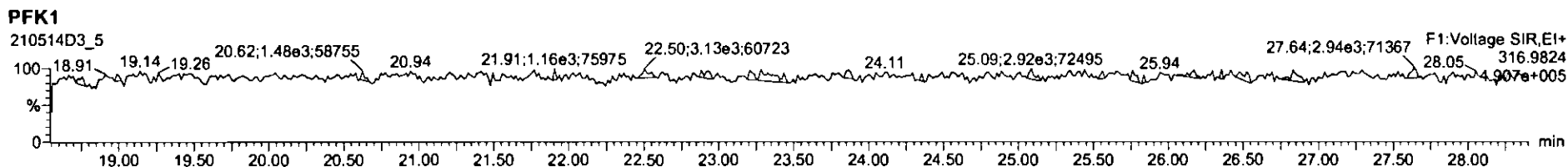
#	Name	RT	m1 Resp	m2 Resp	RA	inj	EMPC	Conc
1								



Dataset: Untitled

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Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

Name: 210514D3\_5, Date: 14-May-2021, Time: 18:57:42, ID: 2104304-01 USMPDI-033SC-A-14-15-210427 17.07, Description: USMPDI-033SC-A-14-15-210427



Dataset: U:\VG7.PRO\Results\210517D2\210517D2-11.qld

Last Altered: Tuesday, May 25, 2021 12:35:27 Pacific Daylight Time  
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*Handwritten:* H.S. 78.601      CI 06/02/2021

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07  
Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

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Task: ST210517D2-1

	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	OCDD	1.56e5	0.86	NO	1.00	10.099	41.85	1.000	6473.8		12.7	6470
2	13C-OCDD	9.55e3	0.92	NO	0.451	10.099	41.84	1.229	310.04	78.3	3.42	
3	13C-1,2,3,4,6,9-HxCDF	1.35e4	0.51	NO	1.00	10.099	34.04	1.000	198.04	100	3.85	

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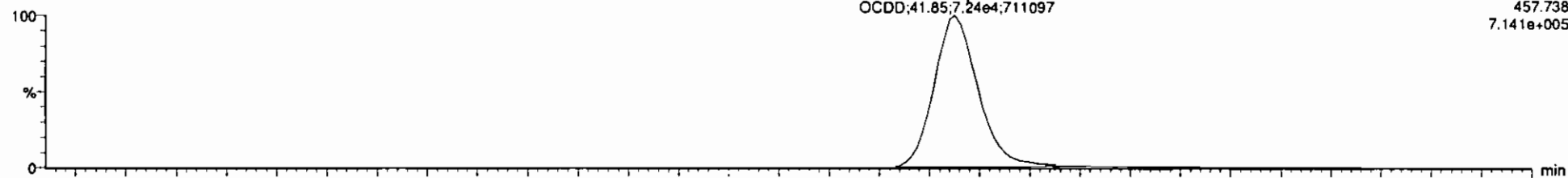
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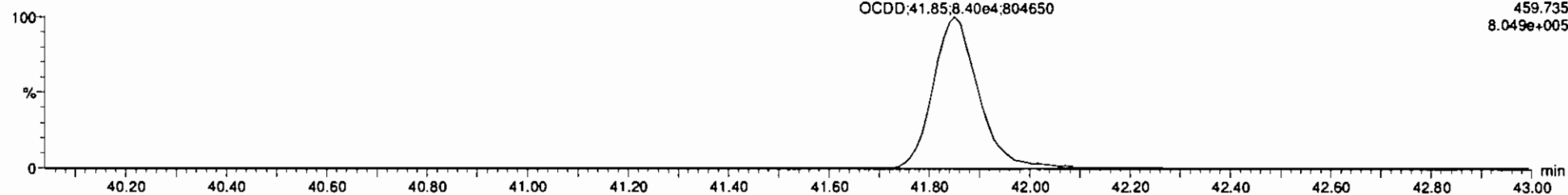
**OCDD**

210517D2\_11



F5:Voltage SIR,EI+  
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7.141e+005

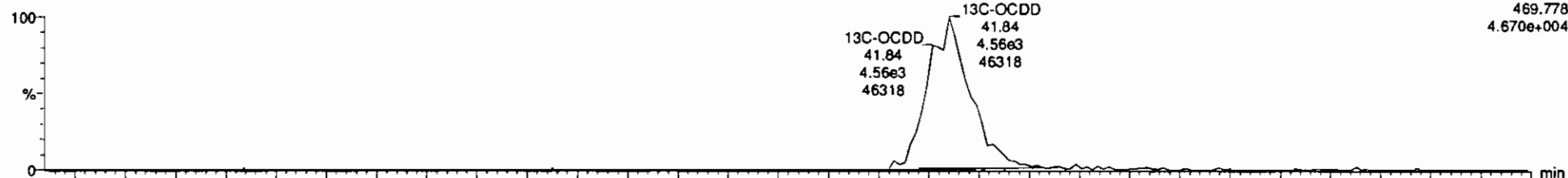
210517D2\_11



F5:Voltage SIR,EI+  
459.735  
8.049e+005

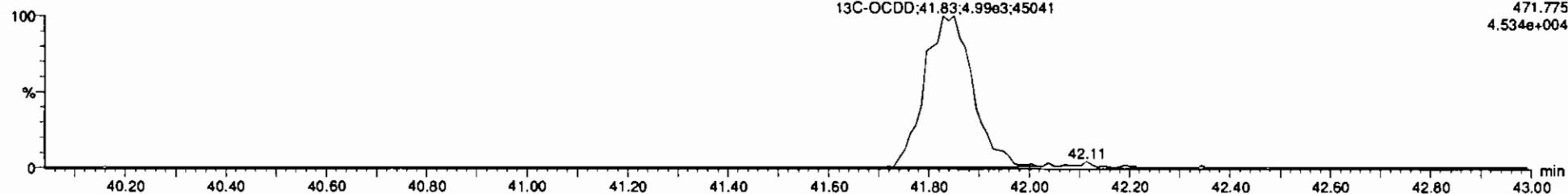
**13C-OCDD**

210517D2\_11



F5:Voltage SIR,EI+  
469.778  
4.670e+004

210517D2\_11



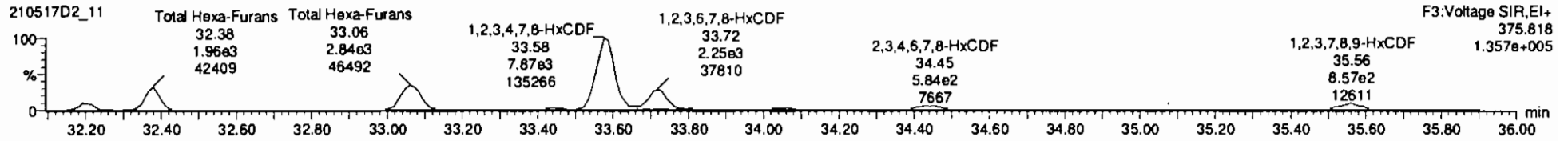
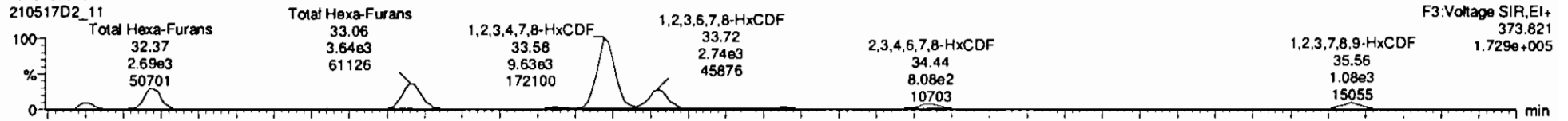
F5:Voltage SIR,EI+  
471.775  
4.534e+004

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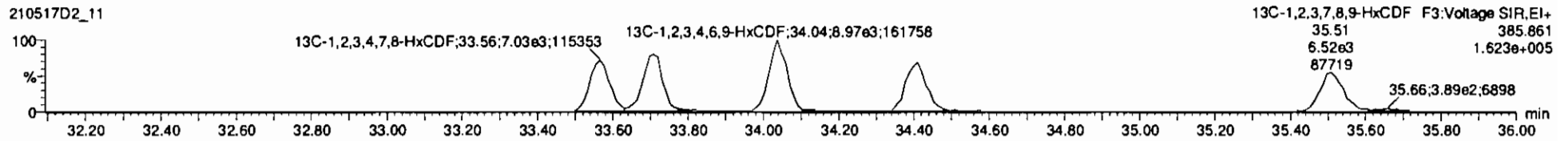
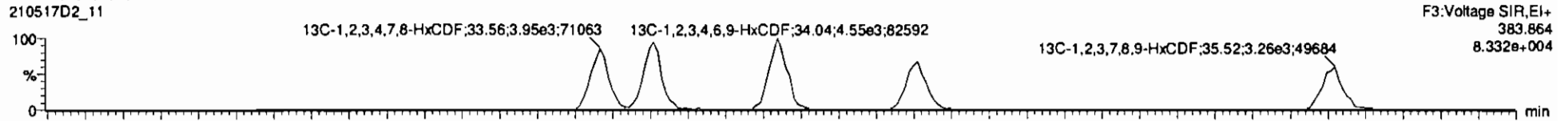
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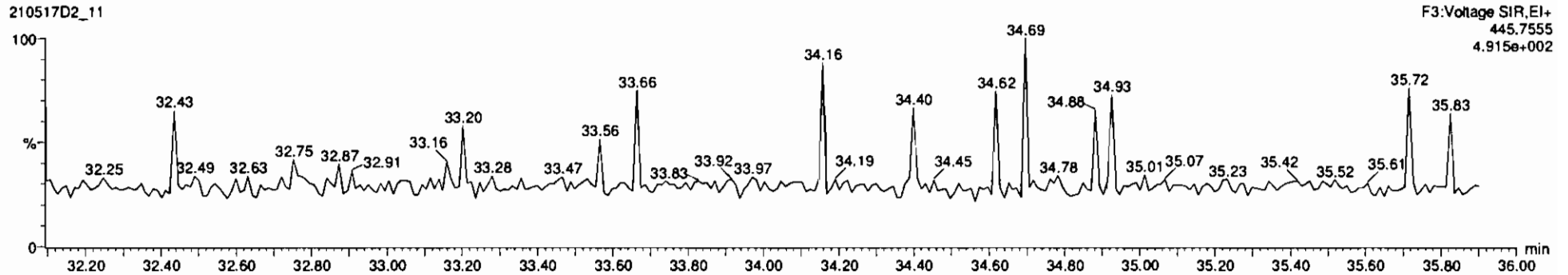
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13C-1,2,3,4,7,8-HxCDF



DPE3

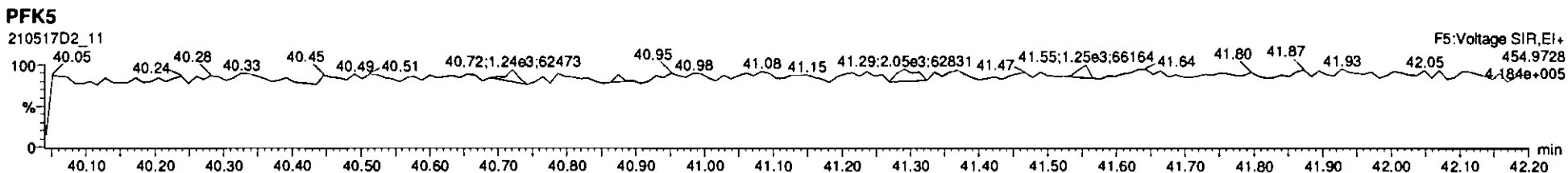
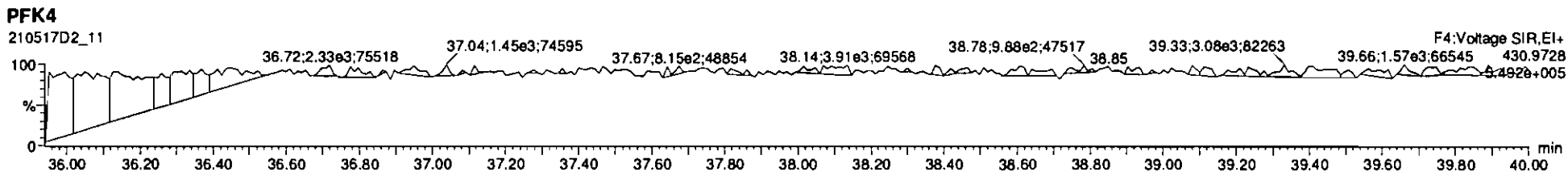
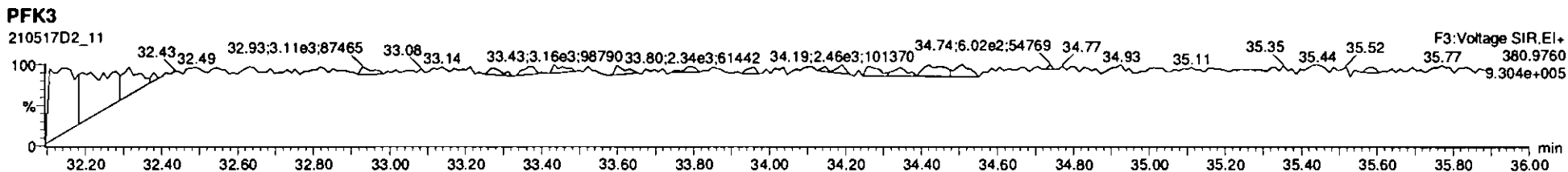
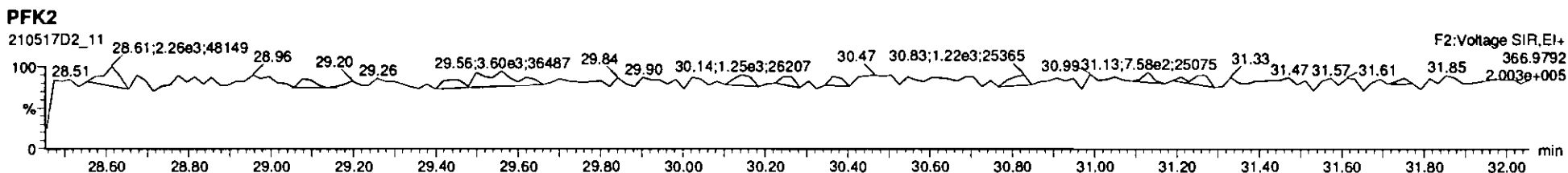
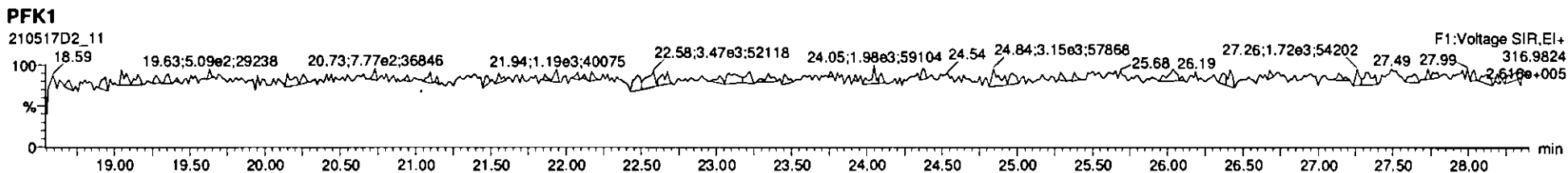


Dataset: U:\VG7.PRO\Results\210517D2\210517D2-11.qld

Last Altered: Tuesday, May 25, 2021 12:35:27 Pacific Daylight Time

Printed: Tuesday, May 25, 2021 12:36:01 Pacific Daylight Time

Name: 210517D2\_11, Date: 17-May-2021, Time: 21:35:13, ID: 2104304-01@5X USMPDI-033SC-A-14-15-210427 17.07, Description: USMPDI-033SC-A-14-15-210427





Dataset: U:\VG7.PRO\Results\210514D3\210514D3-6.qld

Last Altered: Tuesday, June 01, 2021 13:21:24 Pacific Daylight Time  
Printed: Tuesday, June 01, 2021 13:23:23 Pacific Daylight Time

*John G. 6-1-2021* *CT 06/02/2021*

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07  
Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210514D3\_6, Date: 14-May-2021, Time: 19:44:21, ID: 2104304-02 USMPDI-033SC-A-15-15.5-210427 16.34, Description: USMPDI-033SC-A-15-15.5-210427, Task: ST210514D3-1

	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.98e2	0.75	NO	1.05	10.186	27.00	1.000	1.4191		0.228	1.42
2	1,2,3,7,8-PeCDD	1.33e2	0.47	YES	0.881	10.186	31.17	1.001	0.71990		0.345	0.592
3	1,2,3,4,7,8-HxCDD			NO	1.14	10.186					1.49	
4	1,2,3,6,7,8-HxCDD	1.04e3	1.19	NO	1.01	10.186	34.79	1.000	6.5085		1.71	6.51
5	1,2,3,7,8,9-HxCDD	4.56e2	1.18	NO	1.02	10.186	35.11	1.001	2.8909		1.74	2.89
6	1,2,3,4,6,7,8-HpCDD	2.00e4	1.08	NO	1.07	10.186	38.49	1.001	137.58		3.00	138
7	OCDD	2.52e5	0.90	NO	1.00	10.186	42.02	1.000	2407.1		3.59	2410
8	2,3,7,8-TCDF	1.63e3	0.80	NO	0.864	10.186	26.42	1.001	4.2467		0.268	4.25
9	1,2,3,7,8-PeCDF	1.85e3	1.55	NO	0.948	10.186	30.04	1.001	5.4611		0.302	5.46
10	2,3,4,7,8-PeCDF	2.31e3	1.59	NO	1.04	10.186	31.01	1.001	6.0182		0.291	6.02
11	1,2,3,4,7,8-HxCDF	3.70e3	1.16	NO	1.04	10.186	33.66	1.001	12.957		0.888	13.0
12	1,2,3,6,7,8-HxCDF	2.65e3	1.20	NO	1.07	10.186	33.80	1.000	8.5276		0.588	8.53
13	2,3,4,6,7,8-HxCDF	1.28e3	1.22	NO	1.12	10.186	34.55	1.001	4.4627		0.783	4.46
14	1,2,3,7,8,9-HxCDF	2.32e2	1.69	YES	1.10	10.186	35.67	1.001	0.94242		0.885	0.784
15	1,2,3,4,8,7,8-HpCDF	1.17e4	1.00	NO	1.16	10.186	37.25	1.001	54.613		0.991	54.6
16	1,2,3,4,7,8,9-HpCDF	1.14e3	1.13	NO	1.19	10.186	39.30	1.001	5.8087		1.96	5.81
17	OCDF	1.84e4	0.89	NO	0.909	10.186	42.38	1.001	126.38		1.38	126
18	13C-2,3,7,8-TCDD	5.25e4	0.71	NO	1.15	10.186	27.00	1.025	176.36	89.8	0.572	
19	13C-1,2,3,7,8-PeCDD	4.10e4	0.61	NO	0.887	10.186	31.15	1.183	178.04	90.7	0.606	
20	13C-1,2,3,4,7,8-HxCDD	2.75e4	1.37	NO	0.645	10.186	34.64	1.015	133.52	68.0	0.984	
21	13C-1,2,3,6,7,8-HxCDD	3.09e4	1.20	NO	0.717	10.186	34.79	1.020	135.25	68.9	0.886	
22	13C-1,2,3,7,8,9-HxCDD	3.04e4	1.23	NO	0.714	10.186	35.09	1.029	133.19	67.8	0.889	
23	13C-1,2,3,4,6,7,8-HpCDD	2.68e4	1.02	NO	0.583	10.186	38.47	1.128	144.09	73.4	1.36	
24	13C-OCDD	4.10e4	0.90	NO	0.451	10.188	42.02	1.232	284.62	72.5	0.845	
25	13C-2,3,7,8-TCDF	8.70e4	0.73	NO	1.09	10.186	26.40	1.002	141.68	72.2	0.556	
26	13C-1,2,3,7,8-PeCDF	7.01e4	1.62	NO	0.805	10.186	30.02	1.140	154.64	78.8	0.793	
27	13C-2,3,4,7,8-PeCDF	7.28e4	1.63	NO	0.792	10.186	30.99	1.176	163.21	83.1	0.806	
28	13C-1,2,3,4,7,8-HxCDF	5.38e4	0.53	NO	0.997	10.186	33.64	0.986	169.00	86.1	1.01	
29	13C-1,2,3,6,7,8-HxCDF	5.68e4	0.48	NO	1.03	10.186	33.78	0.990	172.90	88.1	0.979	
30	13C-2,3,4,6,7,8-HxCDF	5.04e4	0.51	NO	0.940	10.186	34.51	1.012	167.88	85.5	1.07	
31	13C-1,2,3,7,8,9-HxCDF	4.40e4	0.51	NO	0.852	10.186	35.64	1.045	161.68	82.3	1.18	
32	13C-1,2,3,4,6,7,8-HpCDF	3.63e4	0.44	NO	0.727	10.186	37.22	1.091	156.56	79.7	1.34	

Dataset:        U:\VG7.PRO\Results\210514D3\210514D3-6.qld

Last Altered:    Tuesday, June 01, 2021 13:21:24 Pacific Daylight Time  
 Printed:        Tuesday, June 01, 2021 13:23:23 Pacific Daylight Time

Name: 210514D3\_6, Date: 14-May-2021, Time: 19:44:21, ID: 2104304-02 USMPDI-033SC-A-15-15.5-210427 16.34, Description: USMPDI-033SC-A-15-15.5-210427, Task: ST210514D3-1

	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HpCDF	3.25e4	0.41	NO	0.608	10.186	39.28	1.151	167.53	85.3	1.60	
34	13C-OCDF	6.29e4	0.86	NO	0.631	10.186	42.36	1.242	312.12	79.5	1.06	
35	37Cl-2,3,7,8-TCDD	7.74e4			2.22	10.186	27.01	1.026	134.28	171	0.104	
36	13C-1,2,3,4-TCDD	5.10e4	0.73	NO	1.00	10.186	26.34	1.000	196.35	100	0.655	
37	13C-1,2,3,4-TCDF	1.11e5	0.81	NO	1.00	10.186	25.10	1.000	196.35	100	0.606	
38	13C-1,2,3,4,6,9-HxCDF	6.27e4	0.50	NO	1.00	10.186	34.11	1.000	196.35	100	1.01	
39	Total Tetra-Dioxins				1.05	10.186			8.5315		0.228	9.92
40	Total Penta-Dioxins				0.881	10.186			6.7547		0.343	12.1
41	Total Hexa-Dioxins				1.01	10.186			63.955		1.72	64.2
42	Total Hepta-Dioxins				1.07	10.186			367.62		3.00	368
43	Total Tetra-Furans				0.864	10.186			34.141		0.268	37.9
44	1st Func. Penta-Furans				0.948	10.186			17.090		0.102	17.1
45	Total Penta-Furans				0.948	10.186			33.208		0.310	34.4
46	Total Hexa-Furans				1.12	10.186			91.582		0.705	94.3
47	Total Hepta-Furans				1.16	10.186			169.79		1.47	170

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Dataset: U:\VG7.PRO\Results\210514D3\210514D3-6.qld

Last Altered: Tuesday, June 01, 2021 13:21:24 Pacific Daylight Time

Printed: Tuesday, June 01, 2021 13:23:23 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07

Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210514D3\_6, Date: 14-May-2021, Time: 19:44:21, ID: 2104304-02 USMPDI-033SC-A-15-15.5-210427 16.34, Description: USMPDI-033SC-A-15-15.5-210427, Task: ST210514D3-1

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.90	9.791e3	1.152e4	6.597e2	8.130e2	0.81	NO	1.473e3	5.2562	5.2562	0.228
2	Total Tetra-Dioxins	24.15	1.370e3	1.832e3	9.858e1	1.288e2	0.77	NO	2.274e2	0.81148	0.81148	0.228
3	Total Tetra-Dioxins	24.57	1.805e3	1.883e3	9.497e1	1.149e2	0.83	NO	2.098e2	0.74894	0.74894	0.228
4	Total Tetra-Dioxins	25.22	6.150e2	9.470e2	3.486e1	4.801e1	0.73	NO	8.286e1	0.29576	0.29576	0.228
5	Total Tetra-Dioxins	25.44	6.560e2	7.370e2	4.499e1	4.503e1	1.00	YES	0.000e0	0.00000	0.28447	0.228
6	Total Tetra-Dioxins	25.62	1.893e3	1.011e3	8.281e1	6.034e1	1.37	YES	0.000e0	0.00000	0.38120	0.228
7	Total Tetra-Dioxins	26.77	2.065e3	1.884e3	1.021e2	1.138e2	0.90	YES	0.000e0	0.00000	0.71864	0.228
8	2,3,7,8-TCDD	27.00	2.320e3	5.153e3	1.705e2	2.271e2	0.75	NO	3.976e2	1.4191	1.4191	0.228

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.12	3.903e3	5.821e3	2.818e2	4.667e2	0.60	NO	7.484e2	4.0632	4.0632	0.343
2	Total Penta-Dioxins	29.56	9.410e2	2.464e3	6.802e1	9.060e1	0.75	YES	0.000e0	0.00000	0.80173	0.343
3	Total Penta-Dioxins	30.02	4.530e3	5.504e3	1.775e2	3.182e2	0.56	NO	4.958e2	2.6916	2.6916	0.343
4	Total Penta-Dioxins	30.18	1.484e3	1.583e3	7.424e1	8.749e1	0.85	YES	0.000e0	0.00000	0.77420	0.343
5	Total Penta-Dioxins	30.22	1.414e3	1.825e3	7.149e1	8.622e1	0.83	YES	0.000e0	0.00000	0.76299	0.343
6	Total Penta-Dioxins	30.43	2.339e3	2.726e3	1.667e2	1.883e2	0.89	YES	0.000e0	0.00000	1.6661	0.343
7	Total Penta-Dioxins	30.75	6.570e2	6.580e2	1.818e1	2.218e1	0.82	YES	0.000e0	0.00000	0.19632	0.343
8	1,2,3,7,8-PeCDD	31.17	1.303e3	1.731e3	4.217e1	9.044e1	0.47	YES	1.326e2	0.00000	0.59228	0.343
9	Total Penta-Dioxins	31.49	7.220e2	9.770e2	4.624e1	6.010e1	0.77	YES	0.000e0	0.00000	0.53181	0.343

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Dataset: U:\VG7.PRO\Results\210514D3\210514D3-6.qld

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Name: 210514D3\_6, Date: 14-May-2021, Time: 19:44:21, ID: 2104304-02 USMPDI-033SC-A-15-15.5-210427 16.34, Description: USMPDI-033SC-A-15-15.5-210427, Task: ST210514D3-1

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.26	5.150e2	7.545e3	1.744e1	3.653e2	0.05	YES	0.000e0	0.00000	0.20674	1.72
2	Total Hexa-Dioxins	32.84	3.619e4	2.848e4	2.233e3	1.789e3	1.25	NO	4.022e3	26.387	26.387	1.72
3	Total Hexa-Dioxins	33.50	5.475e3	4.213e3	2.564e2	2.123e2	1.21	NO	4.687e2	3.0750	3.0750	1.72
4	Total Hexa-Dioxins	33.82	2.809e4	2.150e4	2.090e3	1.735e3	1.20	NO	3.825e3	25.094	25.094	1.72
5	1,2,3,6,7,8-HxCDD	34.79	7.435e3	5.310e3	5.636e2	4.733e2	1.19	NO	1.037e3	6.5085	6.5085	1.71
6	1,2,3,7,8,9-HxCDD	35.11	3.758e3	2.672e3	2.468e2	2.089e2	1.18	NO	4.558e2	2.8909	2.8909	1.74

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.55	1.862e5	1.838e5	1.708e4	1.640e4	1.04	NO	3.348e4	230.05	230.05	3.00
2	1,2,3,4,6,7,8-HpCDD	38.49	1.002e5	9.545e4	1.038e4	9.642e3	1.08	NO	2.003e4	137.58	137.58	3.00

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-6.qld

Last Altered: Tuesday, June 01, 2021 13:21:24 Pacific Daylight Time  
 Printed: Tuesday, June 01, 2021 13:23:23 Pacific Daylight Time

Name: 210514D3\_6, Date: 14-May-2021, Time: 19:44:21, ID: 2104304-02 USMPDI-033SC-A-15-15.5-210427 16.34, Description: USMPDI-033SC-A-15-15.5-210427, Task: ST210514D3-1

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	22.00	1.318e3	1.986e3	9.727e1	1.428e2	0.68	NO	2.401e2	0.62726	0.62728	0.268
2	Total Tetra-Furans	22.52	3.140e3	4.067e3	2.412e2	3.247e2	0.74	NO	5.659e2	1.4785	1.4785	0.268
3	Total Tetra-Furans	23.21	1.698e4	2.451e4	1.170e3	1.656e3	0.71	NO	2.827e3	7.3844	7.3844	0.268
4	Total Tetra-Furans	23.47	1.228e3	2.066e3	7.091e1	1.169e2	0.61	YES	0.000e0	0.00000	0.42583	0.268
5	Total Tetra-Furans	23.57	2.287e3	3.025e3	2.211e2	2.982e2	0.74	NO	0.000e0	0.00000	1.3587	0.268
6	Total Tetra-Furans	23.91	8.407e3	1.197e4	6.729e2	8.679e2	0.78	NO	1.541e3	4.0254	4.0254	0.268
7	Total Tetra-Furans	24.28	9.415e3	1.191e4	6.010e2	8.578e2	0.70	NO	1.459e3	3.8112	3.8112	0.268
8	Total Tetra-Furans	24.40	8.950e2	1.613e3	5.078e1	1.140e2	0.45	YES	0.000e0	0.00000	0.30498	0.268
9	Total Tetra-Furans	24.57	2.083e3	2.573e3	1.310e2	1.728e2	0.76	NO	3.038e2	0.79376	0.79378	0.268
10	Total Tetra-Furans	24.95	8.820e2	2.176e3	6.495e1	1.374e2	0.47	YES	0.000e0	0.00000	0.39004	0.268
11	Total Tetra-Furans	25.21	1.291e4	1.289e4	9.025e2	1.112e3	0.81	NO	2.014e3	5.2624	5.2624	0.268
12	Total Tetra-Furans	25.58	1.067e4	1.384e4	6.957e2	8.590e2	0.81	NO	1.555e3	4.0619	4.0619	0.268
13	Total Tetra-Furans	26.31	2.962e3	5.459e3	1.715e2	2.573e2	0.67	NO	4.288e2	1.1202	1.1202	0.268
14	2,3,7,8-TCDF	26.42	1.054e4	1.498e4	7.246e2	9.009e2	0.80	NO	1.626e3	4.2467	4.2467	0.268
15	Total Tetra-Furans	26.66	2.214e3	2.223e3	1.615e2	1.979e2	0.82	NO	0.000e0	0.00000	0.93897	0.268
16	Total Tetra-Furans	27.38	1.360e3	1.428e3	6.960e1	7.722e1	0.90	YES	0.000e0	0.00000	0.35709	0.268
17	Total Tetra-Furans	27.70	2.784e3	4.475e3	1.605e2	2.141e2	0.75	NO	3.746e2	0.97858	0.97858	0.268
18	Total Tetra-Furans	28.07	1.423e3	1.709e3	5.425e1	7.984e1	0.68	NO	1.341e2	0.35031	0.35031	0.268

**Penta-Furans function 1**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.69	6.285e4	4.142e4	3.549e3	2.347e3	1.51	NO	5.896e3	17.090	17.090	0.102

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Dataset: U:\VG7.PRO\Results\210514D3\210514D3-6.qld

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Name: 210514D3\_6, Date: 14-May-2021, Time: 19:44:21, ID: 2104304-02 USMPDI-033SC-A-15-15.5-210427 16.34, Description: USMPDI-033SC-A-15-15.5-210427, Task: ST210514D3-1

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.00	2.824e3	1.874e3	1.689e2	1.147e2	1.47	NO	2.836e2	0.82200	0.82200	0.310
2	Total Penta-Furans	29.16	3.078e4	2.239e4	2.522e3	1.725e3	1.46	NO	4.247e3	12.310	12.310	0.310
3	Total Penta-Furans	29.58	1.067e3	1.361e3	7.082e1	5.474e1	1.29	YES	0.000e0	0.00000	0.33775	0.310
4	Total Penta-Furans	29.70	1.992e4	1.377e4	1.186e3	7.795e2	1.52	NO	1.965e3	5.6974	5.6974	0.310
5	Total Penta-Furans	29.86	3.652e3	2.418e3	1.757e2	1.423e2	1.23	YES	0.000e0	0.00000	0.83768	0.310
6	1,2,3,7,6-PeCDF	30.04	2.072e4	1.576e4	1.122e3	7.261e2	1.55	NO	1.848e3	5.4611	5.4611	0.302
7	Total Penta-Furans	30.28	8.374e3	5.436e3	5.227e2	3.079e2	1.70	NO	8.306e2	2.4079	2.4079	0.310
8	Total Penta-Furans	30.85	1.452e3	1.005e3	1.025e2	6.679e1	1.54	NO	1.693e2	0.49081	0.49081	0.310
9	2,3,4,7,8-PeCDF	31.01	2.805e4	1.644e4	1.420e3	8.945e2	1.59	NO	2.315e3	6.0182	6.0182	0.291

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.27	2.948e4	2.111e4	1.510e3	1.077e3	1.40	NO	2.587e3	8.8718	8.8718	0.705
2	Total Hexa-Furans	32.45	5.906e4	4.858e4	3.452e3	2.714e3	1.27	NO	6.166e3	21.149	21.149	0.705
3	Total Hexa-Furans	32.90	1.627e3	1.695e3	1.015e2	9.856e1	1.03	YES	0.000e0	0.00000	0.62867	0.705
4	Total Hexa-Furans	33.14	8.255e4	6.358e4	5.588e3	4.388e3	1.27	NO	9.977e3	34.218	34.218	0.705
5	Total Hexa-Furans	33.51	2.885e3	2.868e3	1.038e2	1.295e2	0.80	YES	0.000e0	0.00000	0.64305	0.705
6	1,2,3,4,7,8-HxCDF	33.66	2.891e4	2.623e4	1.986e3	1.718e3	1.16	NO	3.704e3	12.957	12.957	0.688
7	1,2,3,6,7,8-HxCDF	33.80	2.303e4	2.031e4	1.443e3	1.206e3	1.20	NO	2.649e3	8.5276	8.5276	0.588
8	Total Hexa-Furans	34.14	1.962e3	1.547e3	1.053e2	1.042e2	1.01	YES	0.000e0	0.00000	0.65232	0.705
9	2,3,4,6,7,8-HxCDF	34.55	9.831e3	8.374e3	7.035e2	5.756e2	1.22	NO	1.279e3	4.4627	4.4627	0.783
10	Total Hexa-Furans	34.59	3.647e3	3.012e3	9.828e1	7.012e1	1.40	NO	1.684e2	0.57758	0.57758	0.705
11	1,2,3,7,8,9-HxCDF	35.67	3.074e3	1.841e3	1.459e2	8.619e1	1.69	YES	2.320e2	0.00000	0.78411	0.888
12	Total Hexa-Furans	35.68	2.952e3	2.662e3	1.258e2	1.127e2	1.12	NO	2.386e2	0.81823	0.81823	0.705

**Hepta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.25	7.386e4	7.565e4	5.852e3	5.873e3	1.00	NO	1.173e4	54.613	54.613	0.991
2	Total Hepta-Furans	37.82	1.344e5	1.395e5	1.132e4	1.093e4	1.04	NO	2.225e4	109.37	109.37	1.47
3	1,2,3,4,7,8,9-HpCDF	39.30	5.363e3	4.792e3	6.052e2	5.368e2	1.13	NO	1.142e3	5.8087	5.8087	1.96

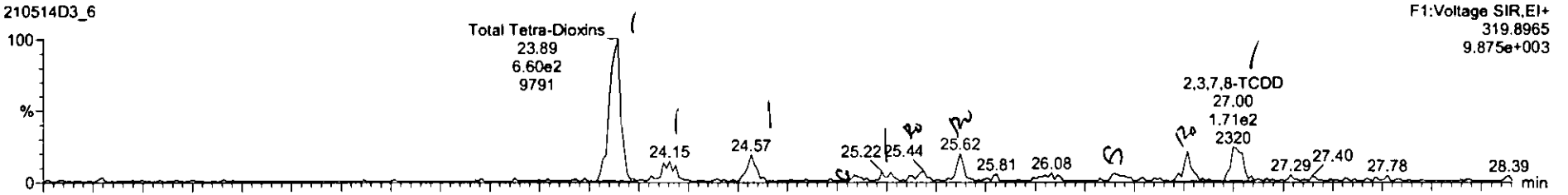
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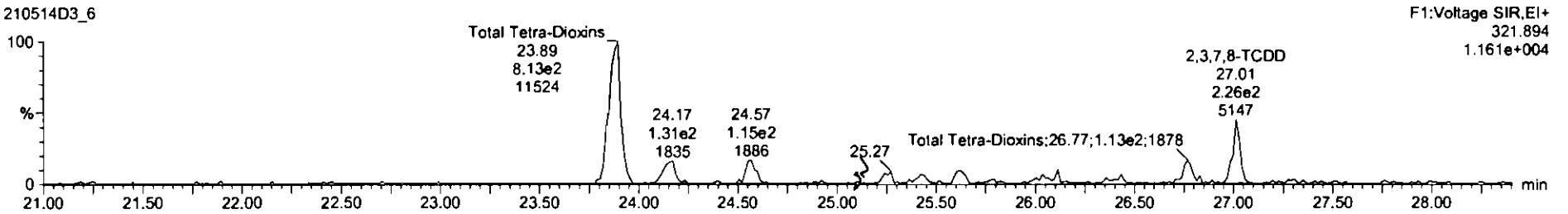
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**2,3,7,8-TCDD**

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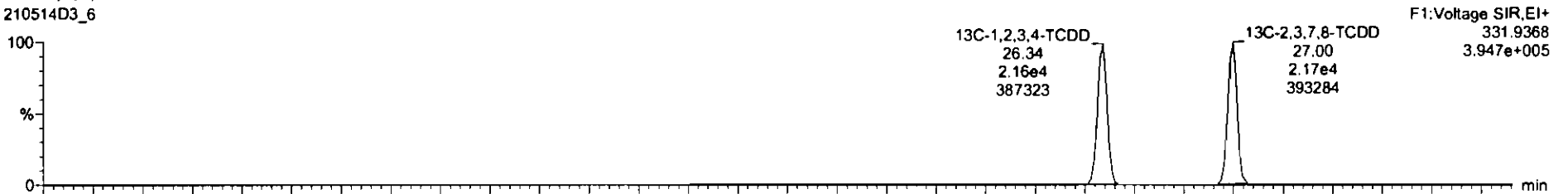


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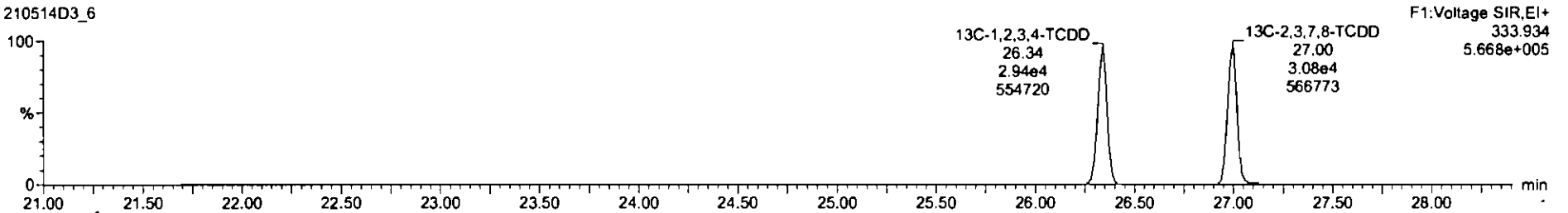


**13C-2,3,7,8-TCDD**

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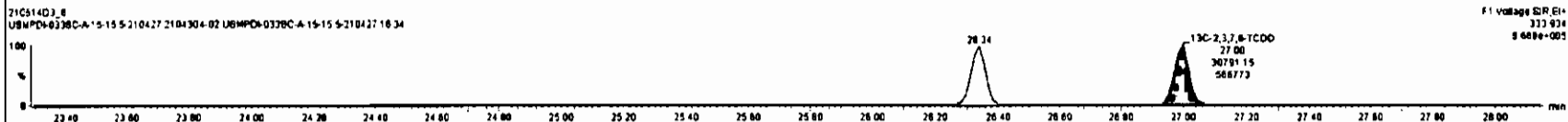
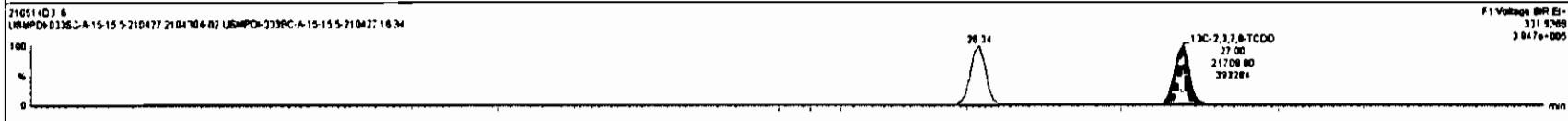
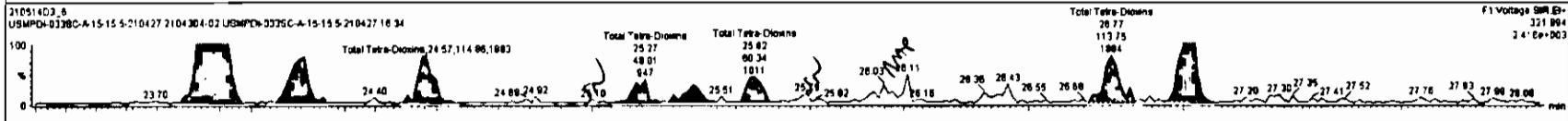


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#	Name	Resp	RA	inj	PPV	wVal	RT	RP1	Conc	%Rec	DL	SPIC
34	13C-OCDF	6.29e4	0.85	NO	0.63	10.185	42.38	1.242	312	79.5	1.08	
36	2,3,7,8-TCDF	7.74e4			2.22	10.185	27.87	1.006	154	171	0.164	
38	13C-1,2,3,4-TCDF	5.10e4	0.73	NO	1.00	10.185	28.34	1.000	196	100	0.056	
37	13C-1,2,3,4-TCDF	1.11e5	0.81	NO	1.00	10.185	25.10	1.000	196	100	0.005	
39	13C-1,2,3,4,6,8-HxCDF	6.27e4	0.50	NO	1.00	10.185	34.11	1.000	198	100	1.81	
36	Total Tetra-Chlorine				1.05	10.185			8.53		0.228	8.92
40	Total Penta-Chlorine				0.88	10.185			8.85		0.343	8.43
41	Total Hexa-Chlorine				1.91	10.185			60.5		1.72	80.5

#	Name	RT	inj	Resp	RA	inj	SPIC	Conc
1	Total Tetra-Chlorine	23.80	0.587e2	0.130e2	0.81	NO	5.2582	5.2582
2	Total Tetra-Chlorine	24.15	0.950e1	1.260e2	0.77	NO	0.81148	0.81148
3	Total Tetra-Chlorine	24.57	0.487e1	1.140e2	0.83	NO	0.74884	0.74884
4	Total Tetra-Chlorine	25.22	3.488e1	0.897e1	0.73	NO	0.28676	0.28676
5	Total Tetra-Chlorine	25.44	4.498e1	0.803e1	1.00	YES	0.20447	0.07000
6	Total Tetra-Chlorine	25.82	0.381e1	0.879e1	1.37	YES	0.38120	0.00000
7	Total Tetra-Chlorine	26.77	1.021e2	1.130e2	0.80	YES	0.71884	0.00000



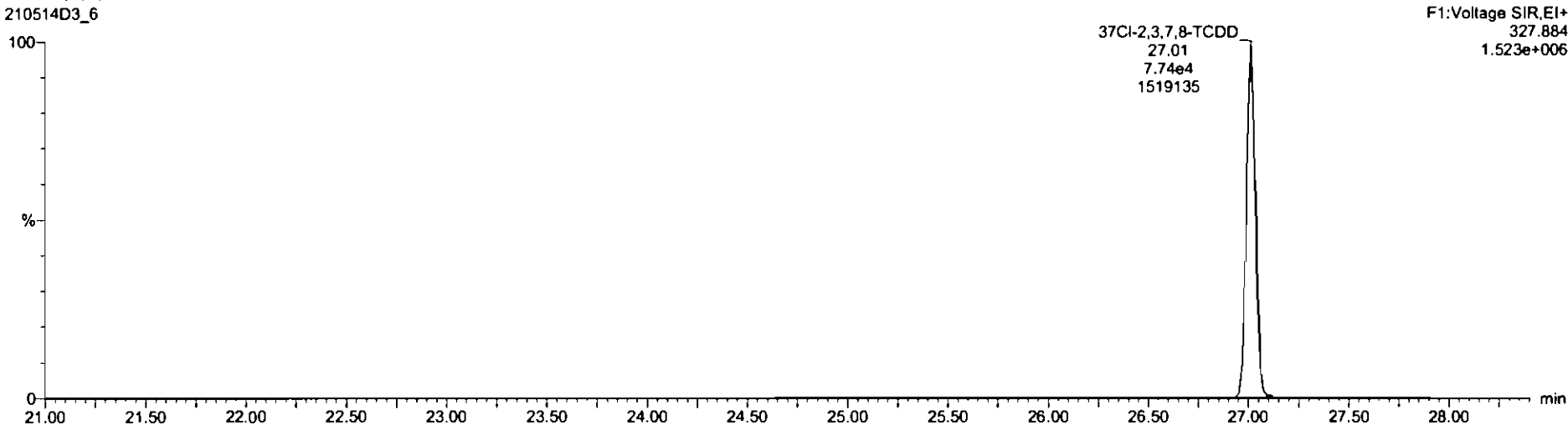


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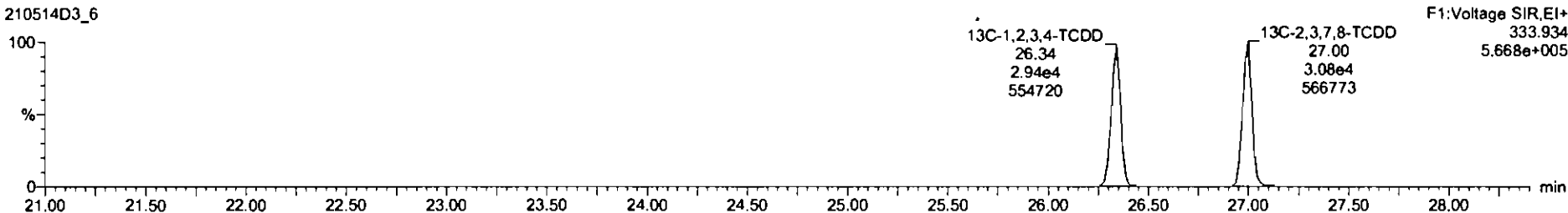
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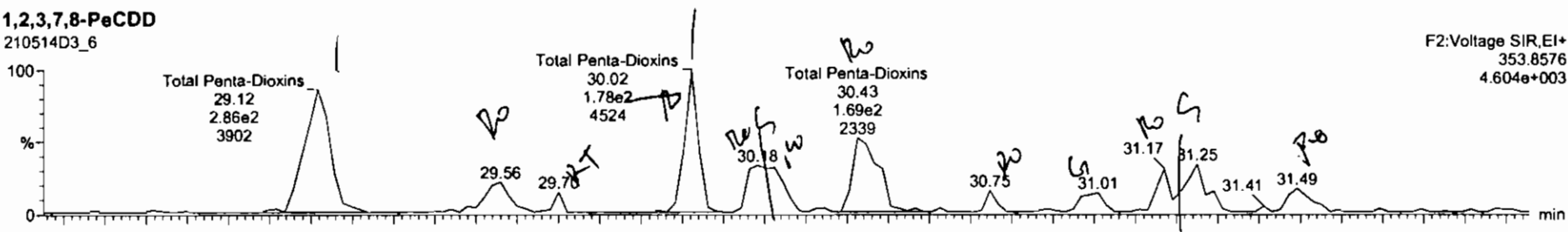
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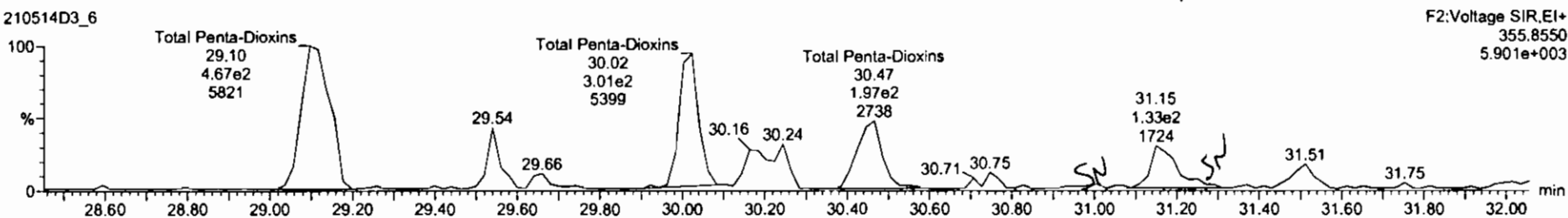
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1,2,3,7,8-PeCDD

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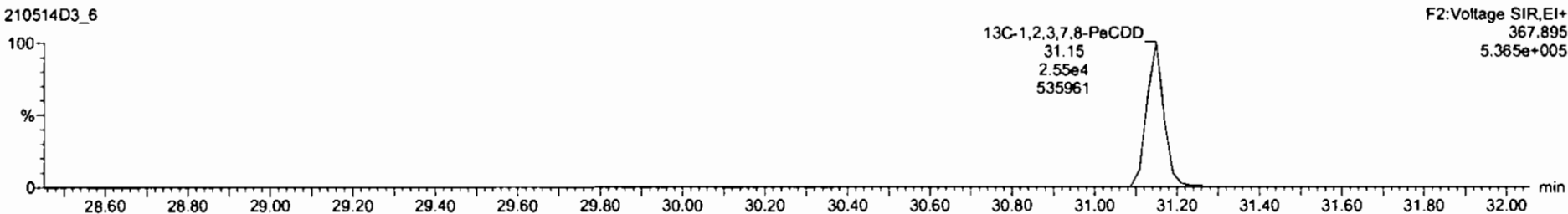


13C-1,2,3,7,8-PeCDD

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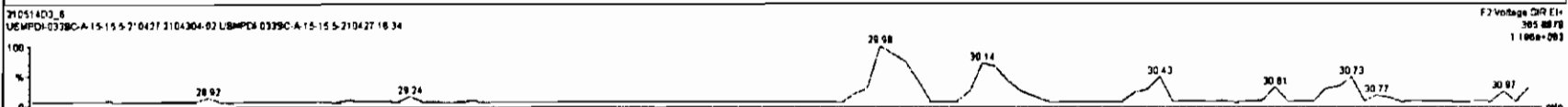
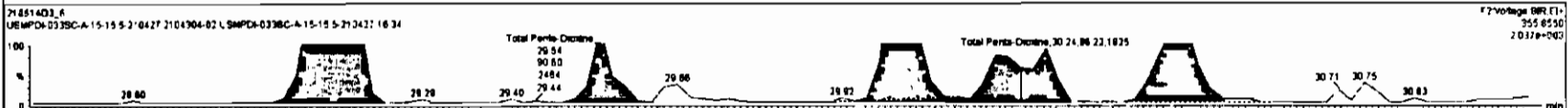
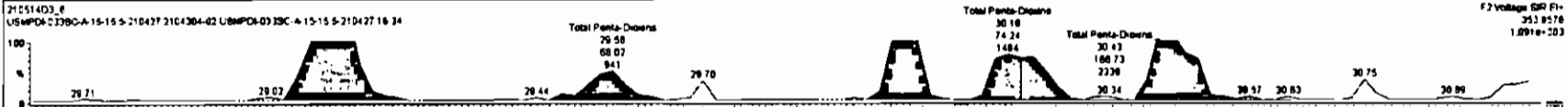


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#	Name	Resp	RA	rvly	RRV	rsvald	RT	RRT	Conc	%Rec	DL	RWPC
26	13C-2,3,7,8-TCDF	8.70ml	0.73	NO	1.09	10.186	28.40	1.002	142	72.2	0.938	
26	13C-1,2,3,7,8-PeCDF	7.01ml	1.82	NO	0.80	10.186	30.80	1.140	186	78.8	0.783	
27	13C-2,3,4,7,8-PeCDF	7.28ml	1.82	NO	0.78	10.186	30.88	1.178	183	83.1	0.808	
28	13C-1,2,3,4,7,8-HxCDF	6.28ml	0.83	NO	1.00	10.186	33.84	0.988	188	88.1	1.01	
28	13C-1,2,3,6,7,8-HxCDF	6.05ml	0.88	NO	1.00	10.186	33.78	0.982	173	88.1	0.878	
30	13C-2,3,4,6,7,8-HxCDF	6.05ml	0.39	NO	0.84	10.186	34.91	1.072	188	85.5	1.07	
29	13C-1,2,3,7,8-PeCDD	4.42ml	0.31	NO	0.86	10.186	36.84	1.045	182	82.3	1.18	
32	13C-1,2,3,4,6,7,8-HxCDF	3.63ml	0.94	NO	0.73	10.186	37.22	1.081	181	78.7	1.34	

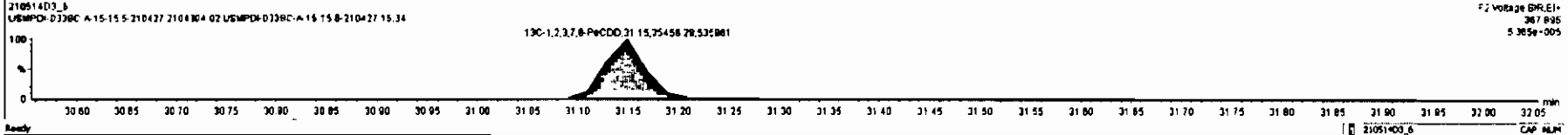
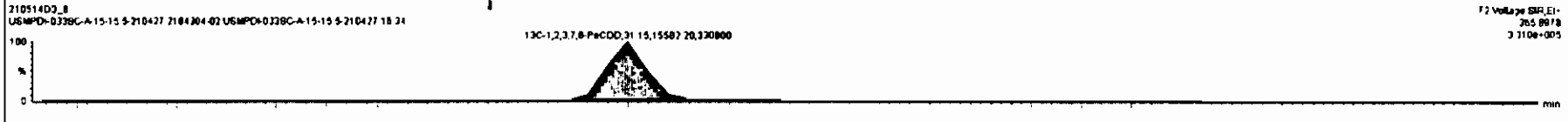
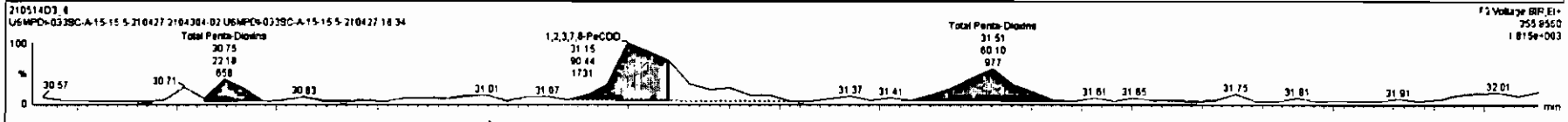
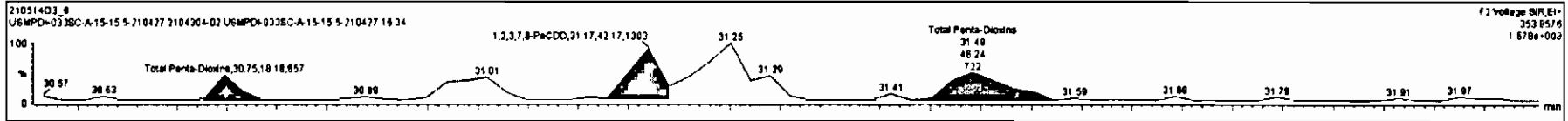
#	Name	RT	ref Name	iN2 Name	RA	rvly	RWPC	Conc
1	Total Penta-Dioxins	29.12	2.919e2	4.887e2	0.80	NO	4.0832	4.3832
2	Total Penta-Dioxins	29.58	6.822e1	9.280e1	0.75	YES	0.80173	0.080002
3	Total Penta-Dioxins	30.82	1.778e2	3.182e2	0.86	NO	2.8818	2.8818
4	Total Penta-Dioxins	30.18	7.424e1	8.743e1	0.88	YES	0.77430	0.080000
5	Total Penta-Dioxins	30.27	7.168e1	8.832e1	0.83	YES	0.76198	0.080000
6	Total Penta-Dioxins	30.43	1.867e2	1.883e2	0.88	YES	1.88891	0.080000
7	1,3,3,7,8-PeCDD	31.17	4.217e1	1.083e2	0.40	YES	0.88228	0.080000
8	Total Hexa-Dioxins	31.28	2.875e1	8.291e1	0.77	NO	8.45000	0.080000



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Name	Resp	RA	rvy	RFI	wAve	RT	RRT	Conc	%Rec	DL	EMPC
25	13C-2,3,7,8-TCDF	8.70e1	0.73	NO	1.00	10.186	26.40	1.002	142	72.2	0.550
26	13C-1,2,3,7,8-PeCDF	7.01e1	1.82	NO	0.80	10.186	30.02	1.140	156	79.8	0.730
27	13C-2,3,4,7,8-PeCDF	7.26e1	1.83	NO	0.78	10.186	30.89	1.178	183	83.1	0.806
28	13C-1,2,3,6,7,8-HxCDF	6.38e1	0.53	NO	1.00	10.186	33.64	0.886	186	86.1	1.01
29	13C-1,2,3,6,7,8-HxCDF	5.88e1	0.48	NO	1.00	10.186	33.78	0.880	173	86.1	0.979
30	13C-2,3,4,6,7,8-HxCDF	5.04e1	0.51	NO	0.94	10.186	34.51	1.012	188	85.5	1.07
31	13C-1,2,3,7,8,9-HxCDF	4.40e1	0.51	NO	0.85	10.186	35.84	1.045	182	82.3	1.10
32	13C-1,2,3,4,6,7,8-HxCDF	3.82e1	0.44	NO	0.73	10.186	37.22	1.081	157	79.7	1.34

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc	
1	Total Penta-Dioxine	28.12	2.818e2	4.887e2	0.80	NO	4.0832	4.0832
2	Total Penta-Dioxine	28.58	8.802e1	8.080e1	0.75	YES	0.80173	0.00000
3	Total Penta-Dioxine	30.02	1.775e2	3.182e2	0.58	NO	2.8916	2.8916
4	Total Penta-Dioxine	30.19	7.429e1	8.748e1	0.85	YES	0.77420	0.00000
5	Total Penta-Dioxine	30.22	7.148e1	8.822e1	0.83	YES	0.78298	0.00000
6	Total Penta-Dioxine	30.43	1.887e2	1.883e2	0.88	YES	1.8861	0.00000
7	Total Penta-Dioxine	30.75	1.818e1	2.218e1	0.82	YES	0.19632	0.00000

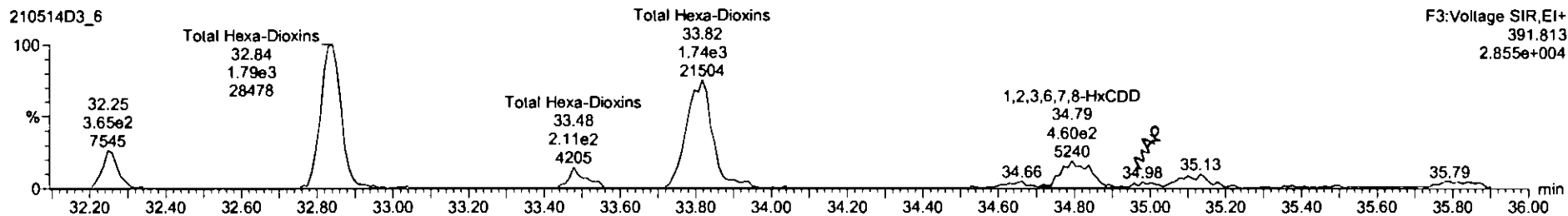
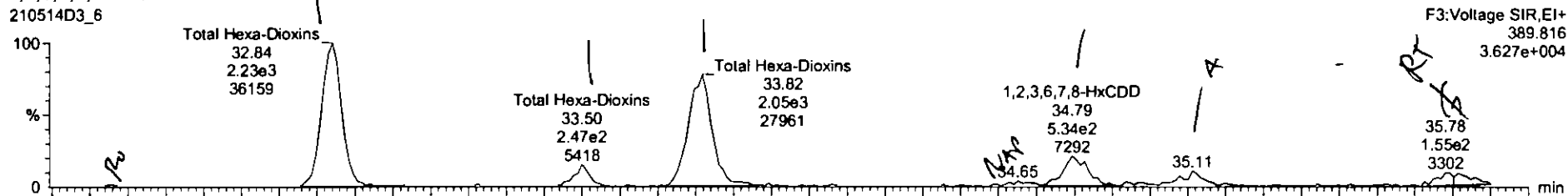


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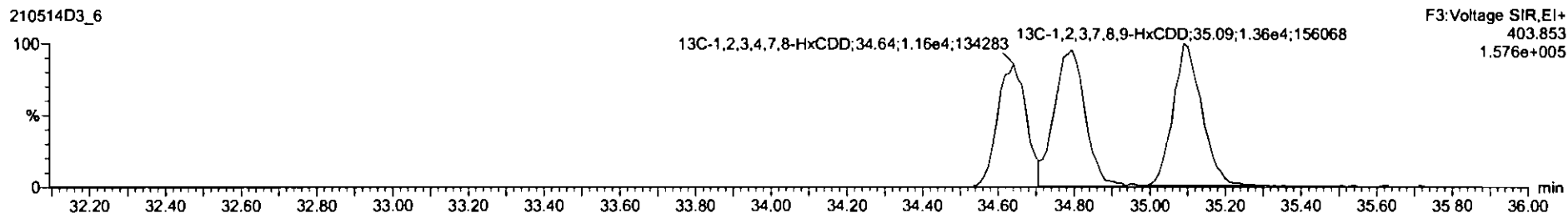
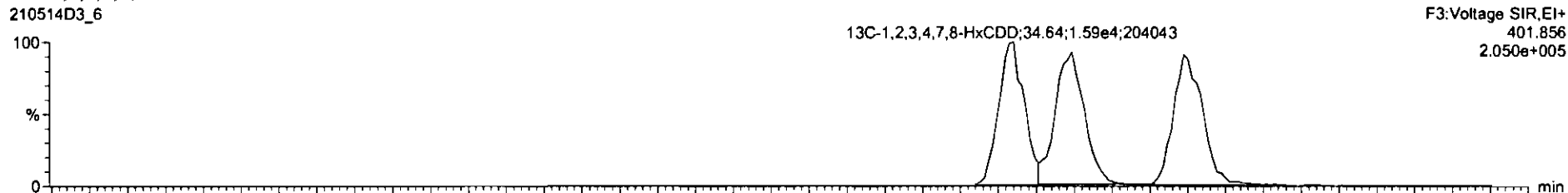
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1,2,3,4,7,8-HxCDD

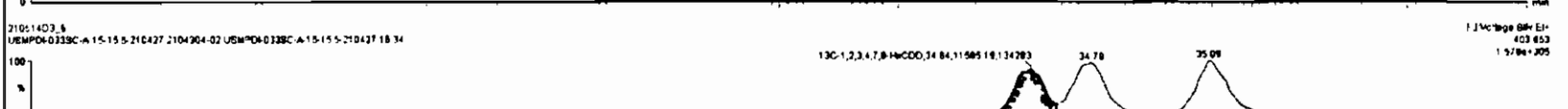
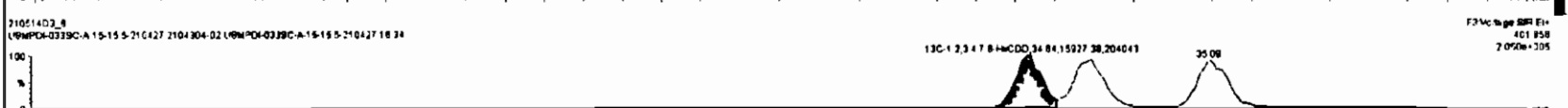
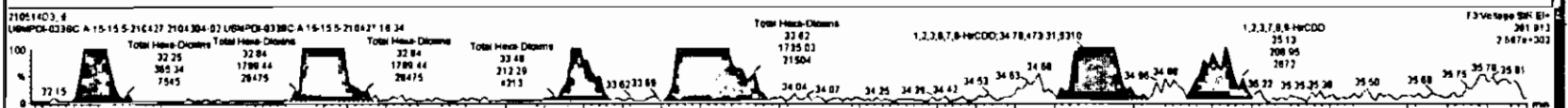
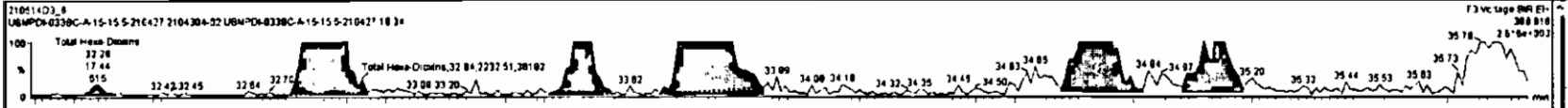


13C-1,2,3,4,7,8-HxCDD



Name	Resp	RA	Adj	RP	uAvg	RT	RP1	Conc	%Rec	CL	EMPC
13C-1,2,3,4,7,8-HxCDF	5.28e4	0.53	NO	1.00	10.188	33.84	0.998	149	89.1	1.01	
13C-1,2,3,6,7,8-HxCDF	5.08e4	0.48	NO	1.00	10.188	33.78	0.990	174	89.1	0.998	
13C-1,2,3,4,6,7,8-HxCDF	9.08e4	0.51	NO	0.94	10.188	34.00	1.012	168	89.5	1.01	
13C-1,2,3,7,8-HxCDF	4.42e4	0.51	NO	0.85	10.188	35.64	1.045	163	82.3	1.10	
13C-1,2,3,4,6,7,8-HxCDF	3.63e4	0.44	NO	0.73	10.188	37.22	1.081	157	79.7	1.34	
13C-1,2,2,4,7,8-HxCDF	3.22e4	0.41	NO	0.81	10.188	38.38	1.151	180	85.3	1.62	
13C-OCDF	8.20e4	0.88	NO	0.83	10.188	43.38	1.243	392	29.5	1.88	
13C-1,2,3,7,8-HxCDD	7.74e4			2.92	10.188	37.01	1.628	134	171	0.104	

Name	RT	Int Resp	Int Resp	RA	Adj	EMPC	Conc
1 Total Hexa-Chlorine	32.28	1.74e4	3.053e2	0.25	YES	0.33874	0.00000
2 Total Hexa-Chlorine	32.84	2.25e3	1.788e3	1.25	NO	28.387	28.387
3 Total Hexa-Chlorine	33.80	2.88e2	2.123e3	1.21	NO	3.0780	3.0780
4 Total Hexa-Chlorine	33.82	1.00e3	1.736e3	1.20	NO	29.854	29.854
5 1,2,3,7,8-HxCDD	34.78	6.62e2	4.726e3	1.18	NO	6.9285	6.9285
6 1,2,3,7,8-HxCDD	35.11	2.48e2	2.086e2	1.18	NO	3.8828	2.8828



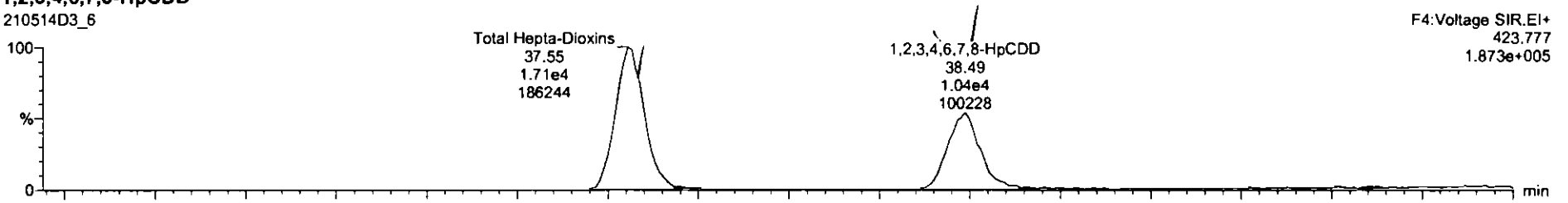
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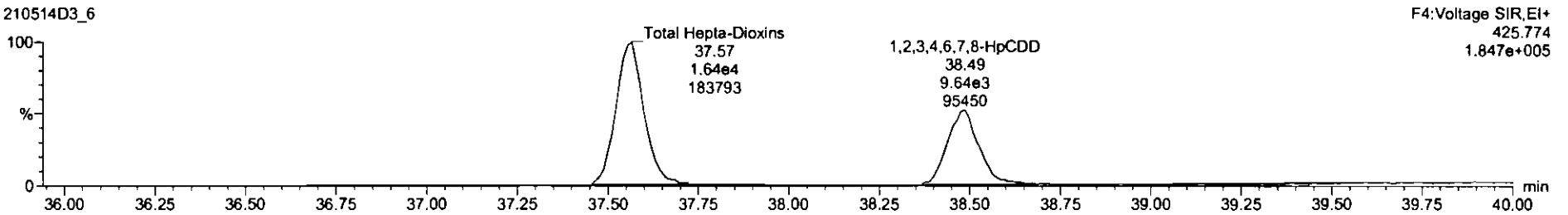
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1,2,3,4,6,7,8-HpCDD

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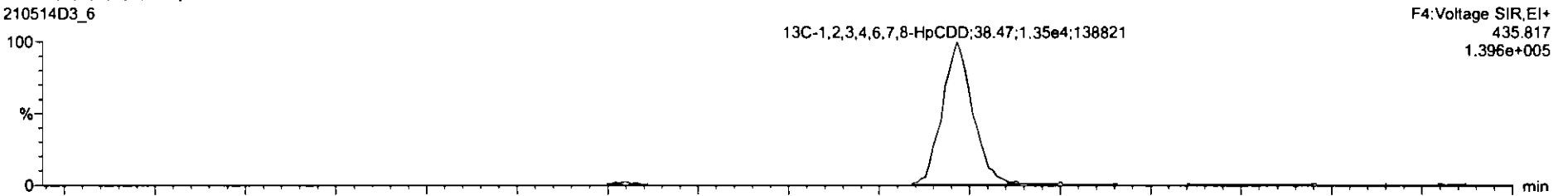


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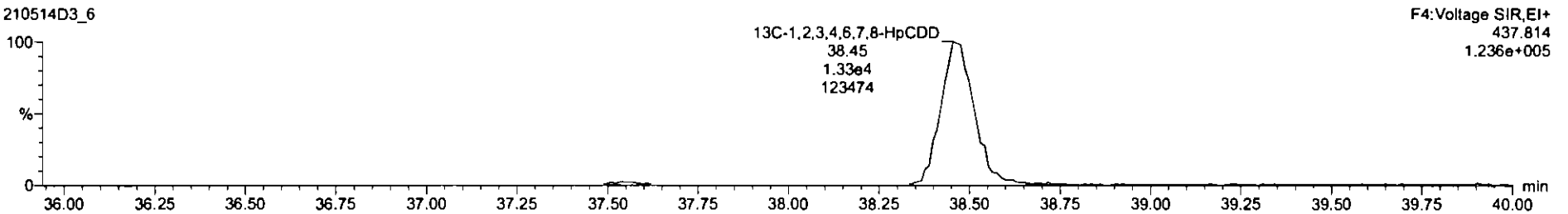


13C-1,2,3,4,6,7,8-HpCDD

210514D3\_6



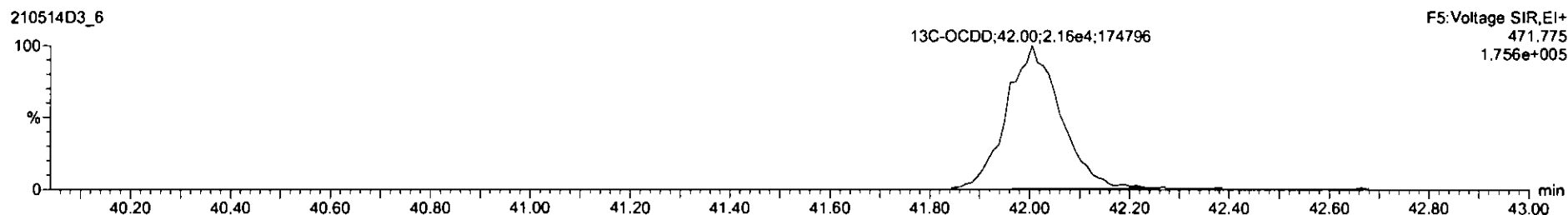
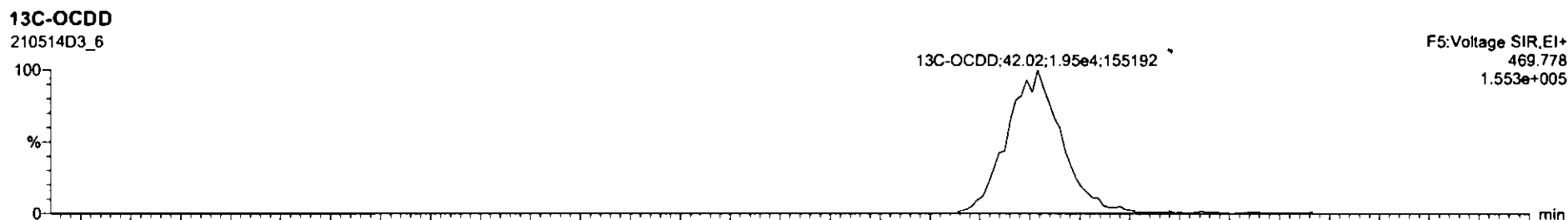
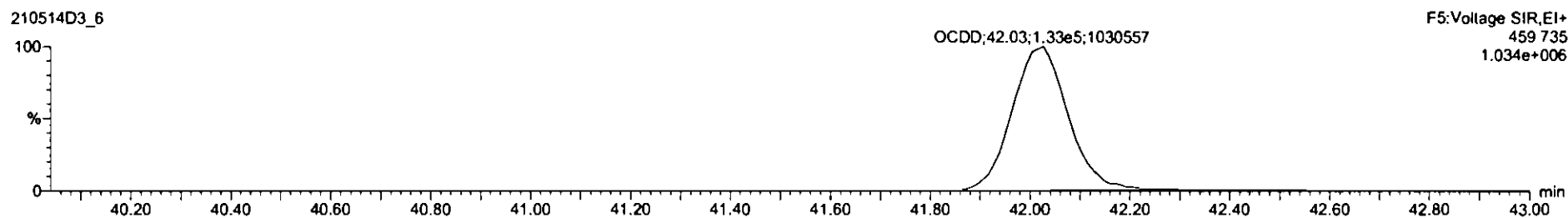
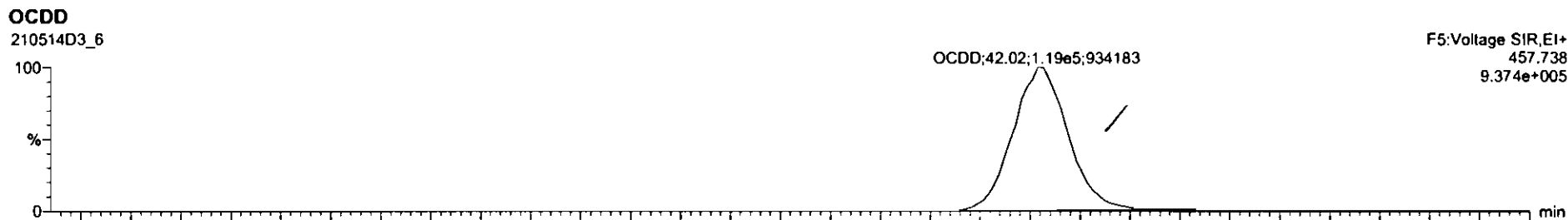
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Name: 210514D3\_6, Date: 14-May-2021, Time: 19:44:21, ID: 2104304-02 USMPDI-033SC-A-15-15.5-210427 16.34, Description: USMPDI-033SC-A-15-15.5-210427



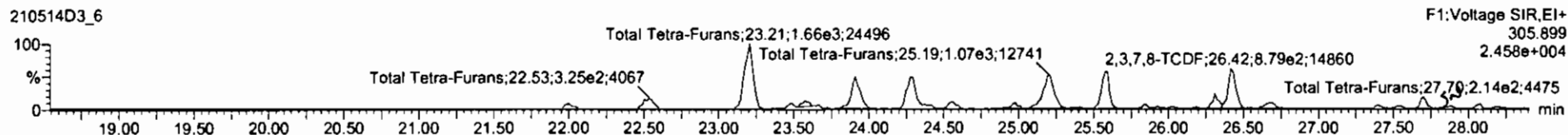
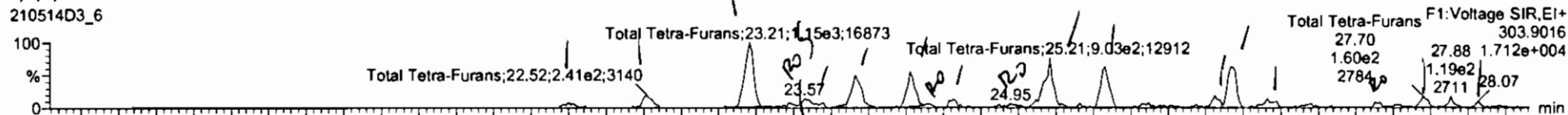


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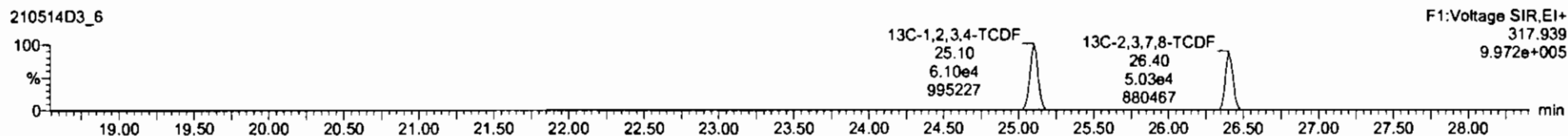
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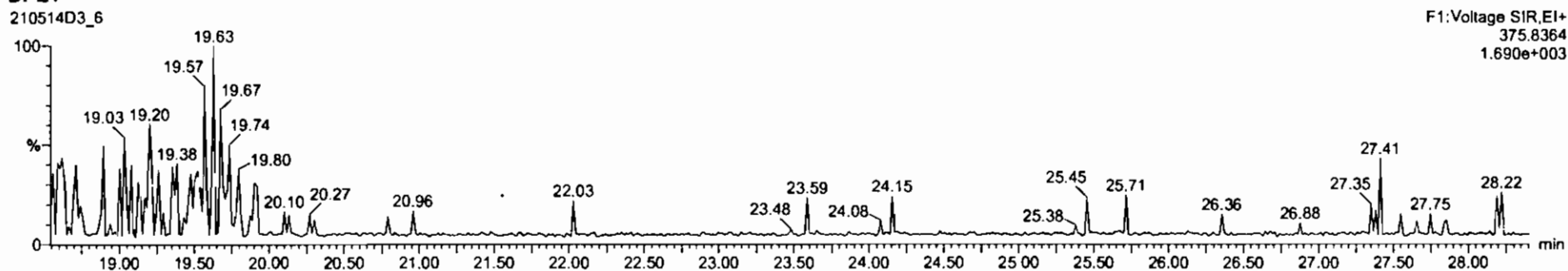
2,3,7,8-TCDF



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

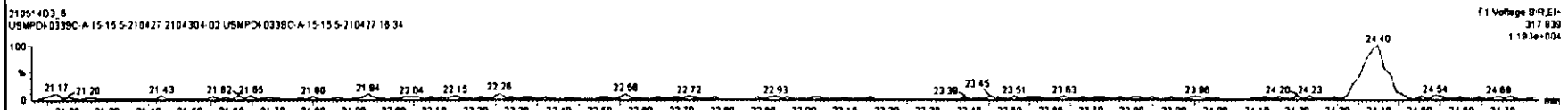
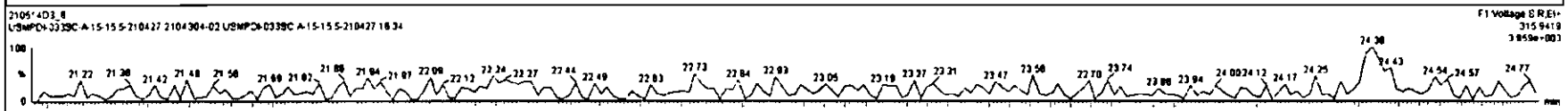
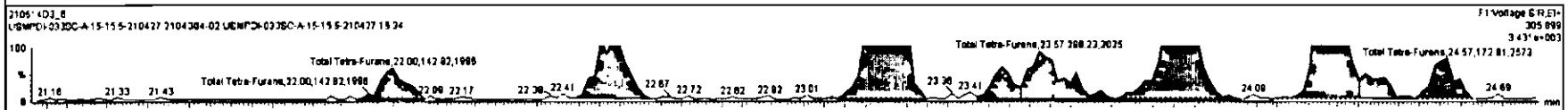
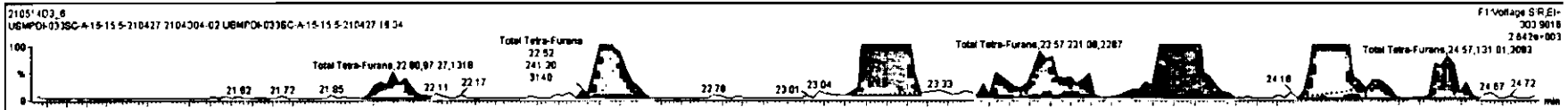


DPE1



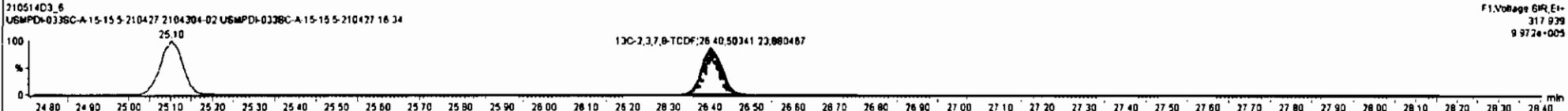
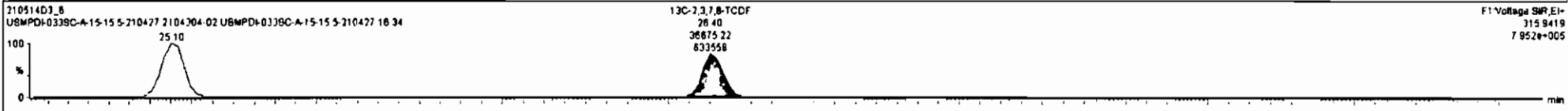
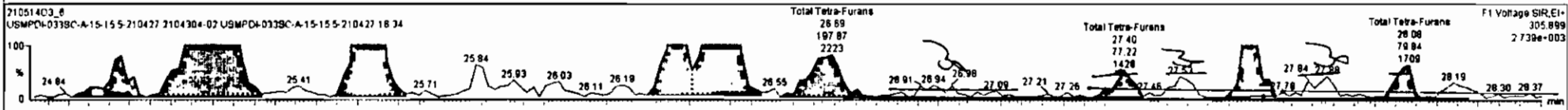
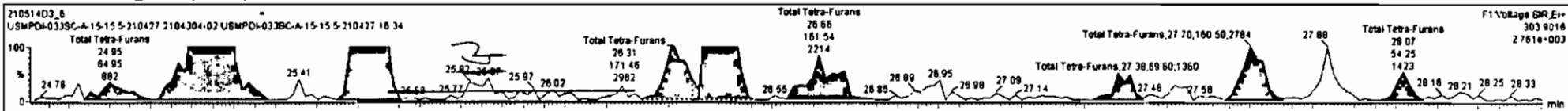
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Total Tetra-Furans				1.07	10.106			390		3.00	390
Total Tetra-Furans				0.88	10.106			24.1		0.269	27.8
Total Tetra-Furans				0.95	10.106			17.1		0.102	17.1
Total Tetra-Furans				0.85	10.106			31.1		0.310	31.2
Total Tetra-Furans				1.12	10.106			81.2		0.705	81.2
Total Tetra-Furans				1.18	10.106			170		1.47	170

Name	RT	a1 Resp	a2 Resp	RA	rly	EMPC	Conc
Total Tetra-Furans	22.00	8.727e1	1.428e2	0.88	NO	0.82726	0.82726
Total Tetra-Furans	22.52	2.412e2	3.247e2	0.74	NO	1.4785	1.4785
Total Tetra-Furans	23.21	1.170e3	1.888e3	0.71	NO	7.3844	7.3844
Total Tetra-Furans	23.47	7.081e1	1.188e2	0.81	YES	0.42983	0.00000
Total Tetra-Furans	23.57	2.214e2	2.982e2	0.74	NO	1.3667	0.00000
Total Tetra-Furans	23.91	8.729e2	8.876e2	0.78	NO	4.8254	4.8254
Total Tetra-Furans	24.28	8.015e2	8.578e2	0.70	NO	3.8112	3.8112
Total Tetra-Furans	24.40	5.078e1	1.140e2	0.45	YES	0.38480	0.00000
Total Tetra-Furans	24.57	1.315e2	1.738e2	0.78	NO	0.78378	0.78378



Name	Resp	RA	n/y	RF	wt/wei	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxine				1.07	10.106			368	3.00	368	
43 Total Tetra-Furans				0.86	10.106			34.1	0.268	37.8	
44 1st Func. Penta-Furans				0.95	10.106			17.1	0.102	17.1	
45 Total Penta-Furans				0.95	10.106			31.1	0.310	31.9	
46 Total Hexa-Furans				1.12	10.106			91.2	0.705	91.2	
47 Total Hepta-Furans				1.16	10.106			170	1.47	170	
48 PFH1											
49 PFH2											

Name	RT	art Resp	uJ Resp	RA	n/y	EMPC	Conc.
6 Total Tetra-Furans	23.91	6.729e2	8.679e2	0.78	NO	4.0254	4.0254
7 Total Tetra-Furans	24.26	6.010e2	8.578e2	0.70	NO	3.8112	3.8112
8 Total Tetra-Furans	24.40	5.078e1	1.140e2	0.45	YES	0.30498	0.00000
9 Total Tetra-Furans	24.57	1.310e2	1.728e2	0.76	NO	0.79376	0.79376
10 Total Tetra-Furans	24.95	6.435e1	1.374e2	0.47	YES	0.39004	0.00000
11 Total Tetra-Furans	25.21	9.025e2	1.112e3	0.81	NO	5.2624	5.2624
12 Total Tetra-Furans	25.58	6.957e2	8.990e2	0.81	NO	4.0619	4.0619
13 Total Tetra-Furans	26.31	1.715e2	2.573e2	0.57	NO	1.1202	1.1202
14 2,3,7,8-TCDF	26.42	7.248e2	9.008e2	0.80	NO	4.2467	4.2467



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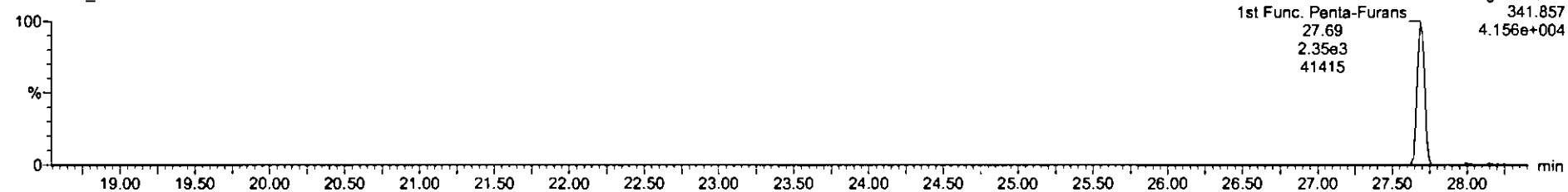
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1st Func. Penta-Furans

210514D3\_6

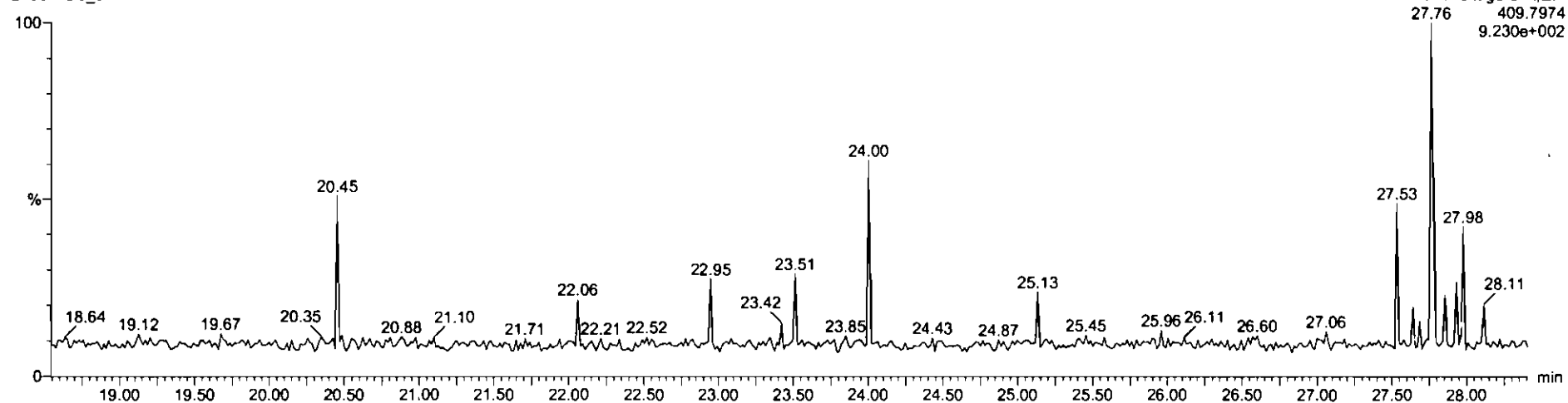


210514D3\_6



DPE6

210514D3\_6

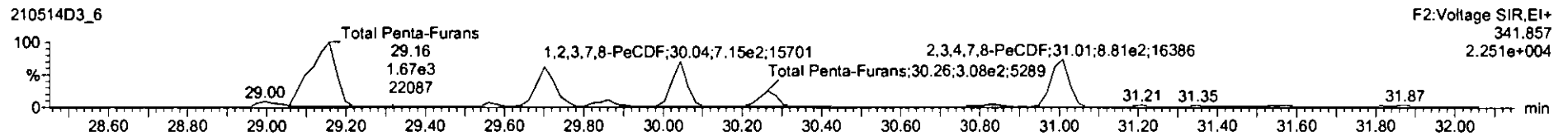
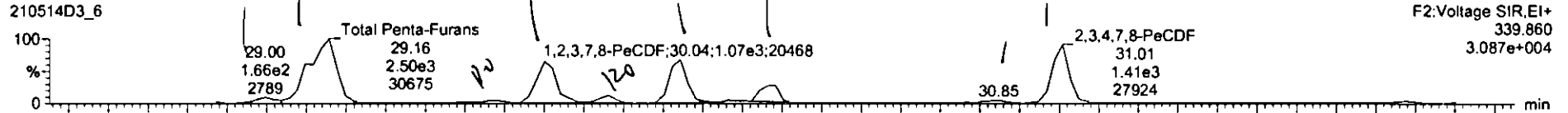


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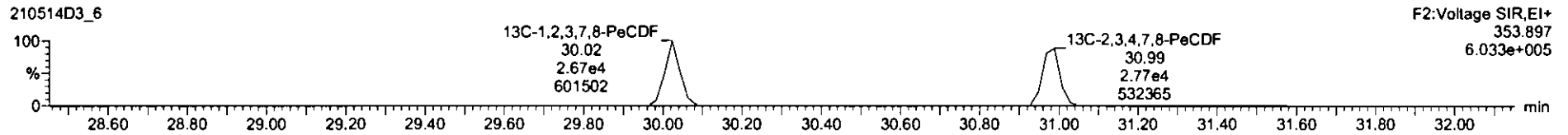
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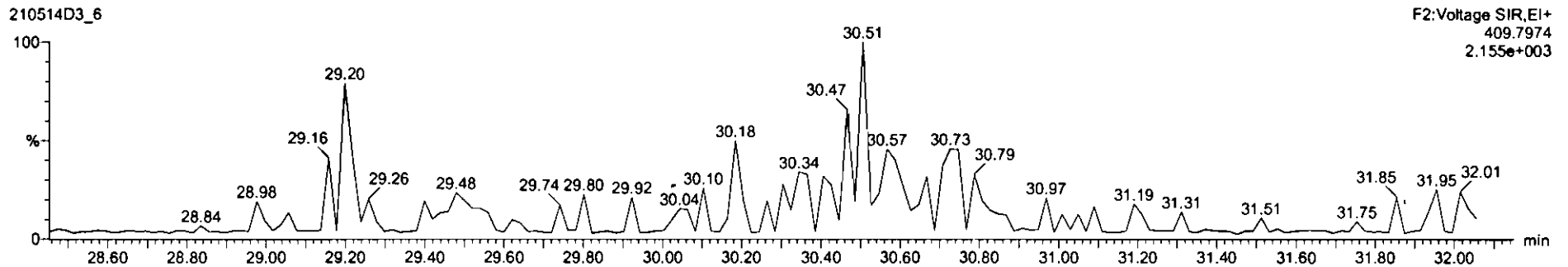
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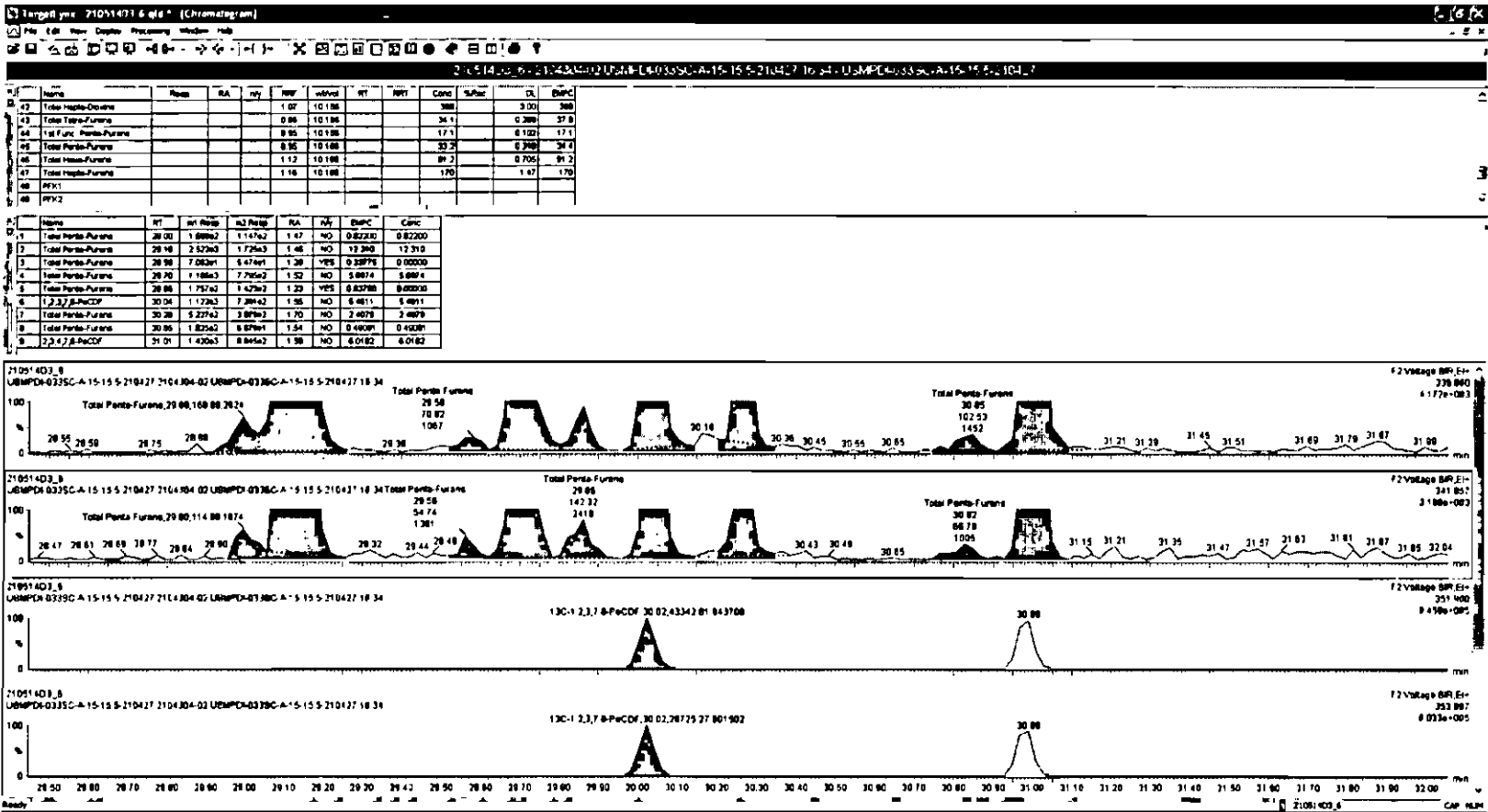


13C-1,2,3,7,8-PeCDF



DPE2



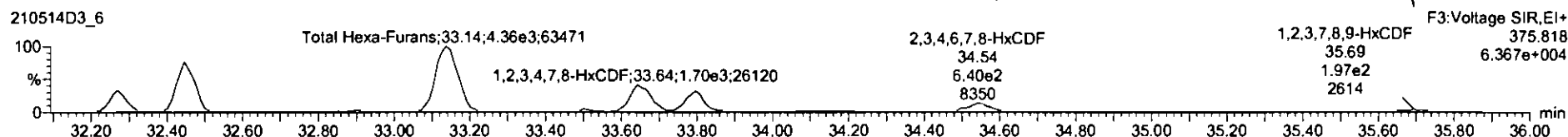
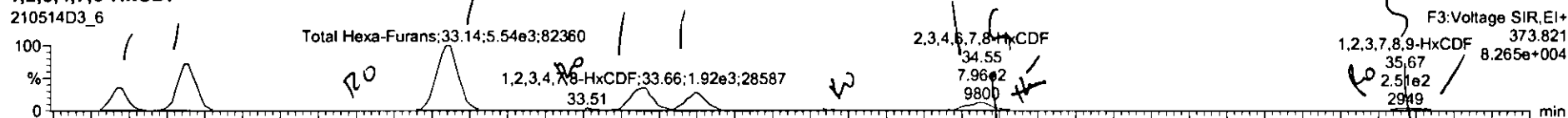


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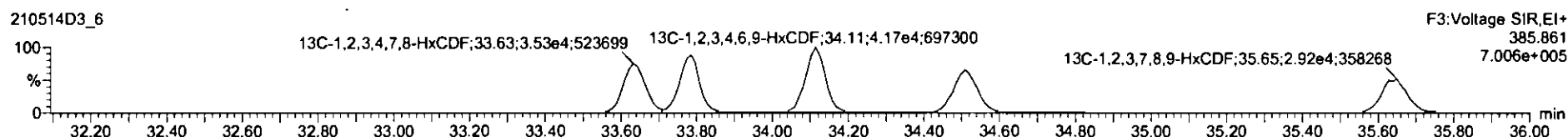
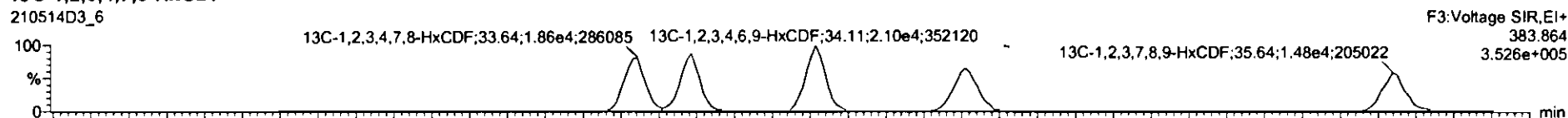
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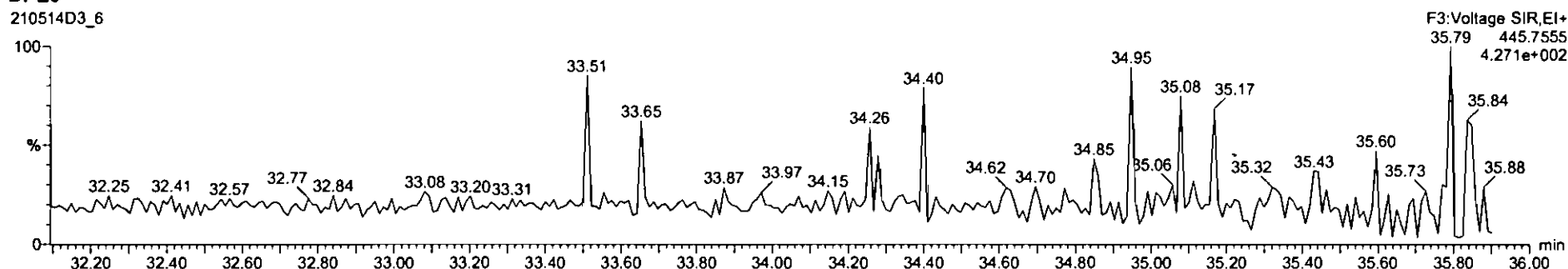
1,2,3,4,7,8-HxCDF



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



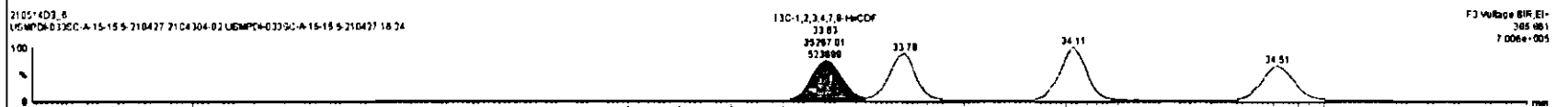
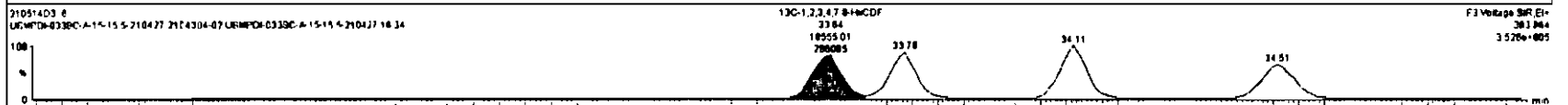
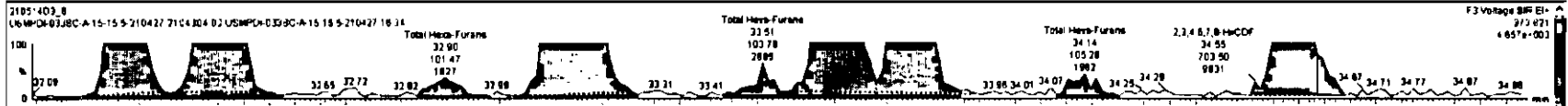
DPE3



21051403 6.qtd

Name	Resp	RA	rvy	NW	Signal	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hexa-Furans				1.07	18188			388		3.00	358
43 Total Tetra-Furans				0.88	18188			34.1		0.288	37.9
44 1st Func. Penta-Furans				0.95	18188			17.1		0.102	17.1
45 Total Penta-Furans				0.95	18188			33.2		0.310	34.4
46 Total Hexa-Furans				1.12	18188			81.8		0.705	84.3
47 Total Hexa-Furans				1.16	18188			170		1.47	170
48 PPA1											
49 PPA2											

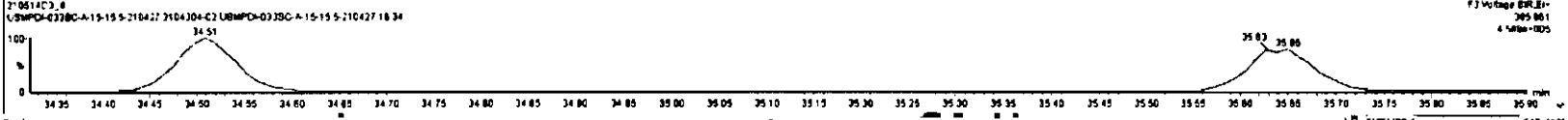
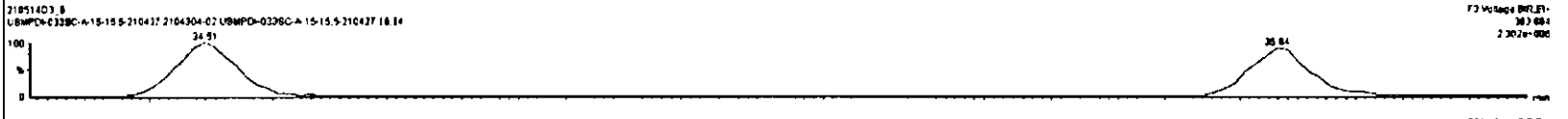
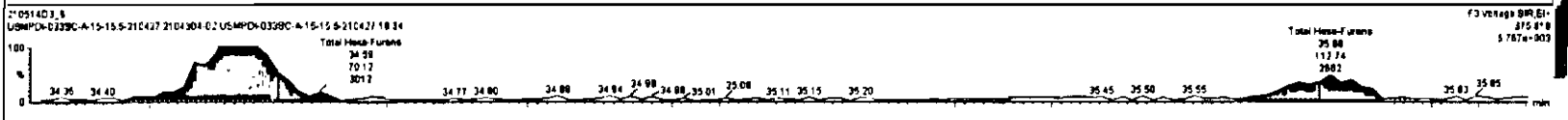
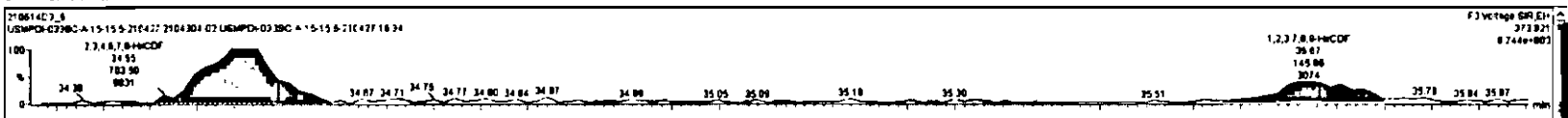
Name	RT	ori Resp	id3 Resp	RA	rvy	EMPC	Conc.
1 Total Hexa-Furans	32.27	1.510e3	1.077e3	1.40	NO	8.8718	8.8718
2 Total Hexa-Furans	32.45	3.452e3	2.714e3	1.27	NO	21.148	21.148
3 Total Hexa-Furans	32.90	1.015e2	8.958e1	1.03	YES	0.82887	0.00000
4 Total Hexa-Furans	33.14	5.388e3	4.388e3	1.27	NO	34.218	34.218
5 Total Hexa-Furans	33.51	1.073e2	1.295e2	0.80	YES	8.84305	0.00000
6 1,2,3,4,7,8-HxCDF	33.88	1.888e3	1.718e3	1.18	NO	12.857	12.857
7 1,2,3,6,7,8-HxCDF	33.88	1.443e3	1.288e3	1.20	NO	8.5276	8.5276
8 Total Hexa-Furans	34.14	1.887e2	1.362e2	1.01	YES	8.85259	0.00000
9 2,3,6,7,8-HxCDF	34.55	7.078e2	5.798e2	1.22	NO	4.4827	4.4827





Name	Resp	RA	inj	RFI	Volume	RT	PRT	Conc	Subst	IX	EMPC
43 Total Hepta-Furans				1.07	10186			360		370	360
43 Total Octa-Furans				0.85	10186			30.1		0.300	37.9
44 Total Furc. Phenol-Furans				0.85	10186			17.1		0.162	17.1
45 Total Phenol-Furans				0.85	10186			33.2		0.310	34.4
46 Total Hepta-Furans				1.12	18186			91.9		0.705	94.3
47 Total Hepta-Furans				1.16	10186			170		1.47	170
48 PEH1											
48 PEH2											

Name	RT	inj Peak	inj Peak	RA	inj	EMPC	Conc
1 Total Hepta-Furans	32.27	1.510e3	1.077e3	1.40	NO	0.8718	0.8718
2 Total Hepta-Furans	32.46	3.452e3	2.714e3	1.27	NO	21.148	21.148
3 Total Hepta-Furans	32.80	1.215e2	9.888e1	1.03	YES	0.62867	0.00000
4 Total Hepta-Furans	32.14	5.580e3	4.386e3	1.27	NO	34.218	34.218
5 Total Hepta-Furans	33.51	1.038e2	1.386e2	0.80	YES	0.84306	0.00000
6 1,2,3,4,7,8-HxCDF	33.88	1.898e3	1.714e3	1.18	NO	12.857	12.857
7 1,2,3,6,7,8-HxCDF	33.80	1.443e3	1.303e3	1.20	NO	8.879	8.879
8 Total Hepta-Furans	34.14	1.053e2	1.047e2	1.01	YES	0.85772	0.00000
9 2,3,6,7,8-HxCDF	34.95	1.035e2	5.795e1	1.22	NO	4.4877	4.4877



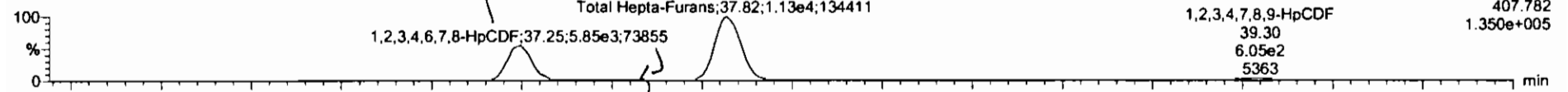
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Name: 210514D3\_6, Date: 14-May-2021, Time: 19:44:21, ID: 2104304-02 USMPDI-033SC-A-15-15.5-210427 16.34, Description: USMPDI-033SC-A-15-15.5-210427

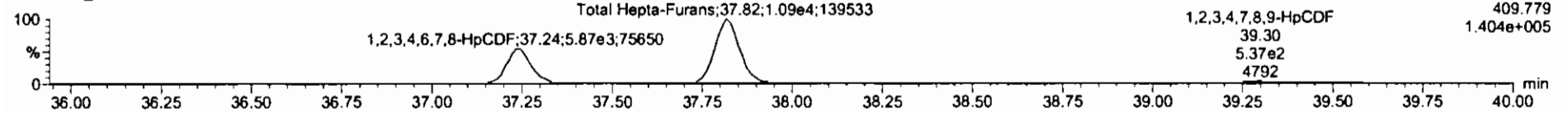
1,2,3,4,6,7,8-HpCDF

210514D3\_6



F4:Voltage SIR,EI+  
407.782  
1.350e+005

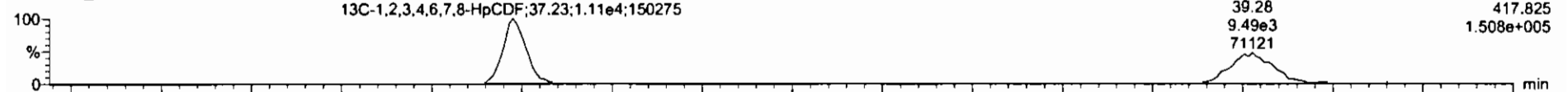
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F4:Voltage SIR,EI+  
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1.404e+005

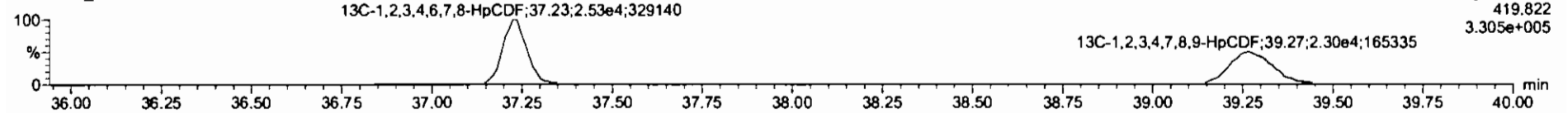
13C-1,2,3,4,6,7,8-HpCDF

210514D3\_6



F4:Voltage SIR,EI+  
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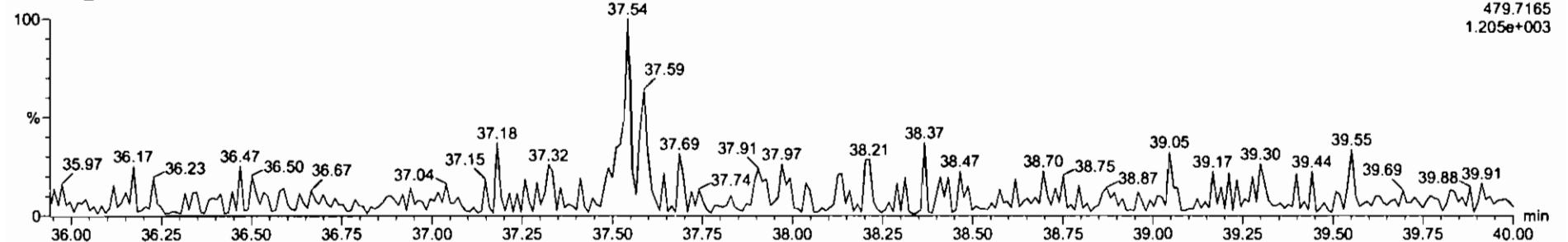
210514D3\_6



F4:Voltage SIR,EI+  
419.822  
3.305e+005

DPE4

210514D3\_6

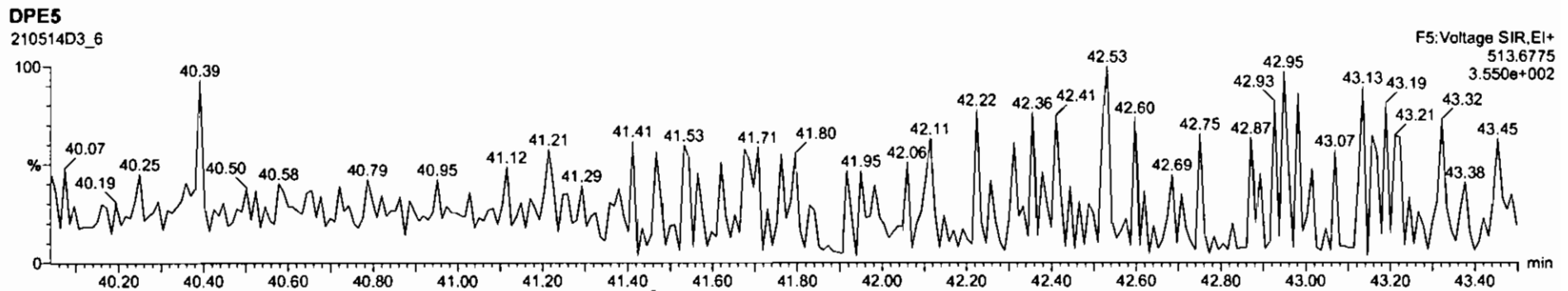
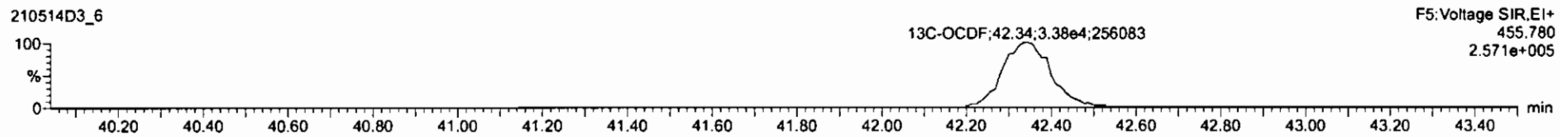
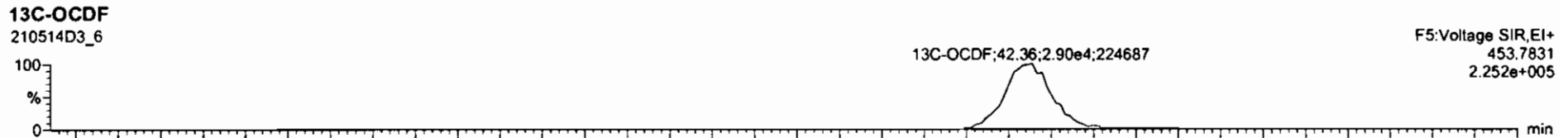
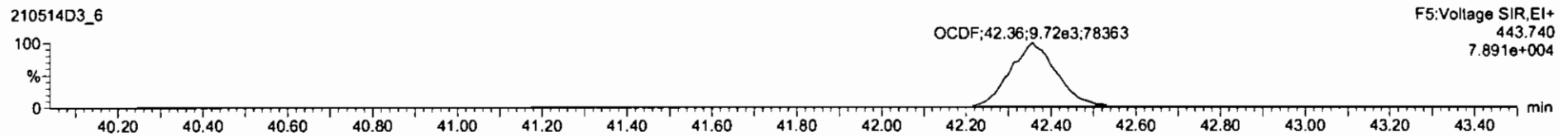
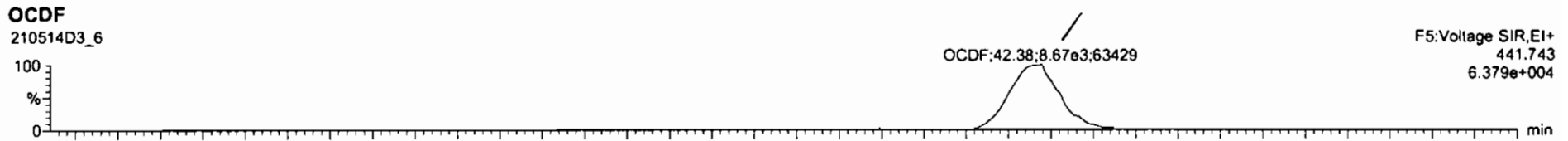


F4:Voltage SIR,EI+  
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1.205e+003

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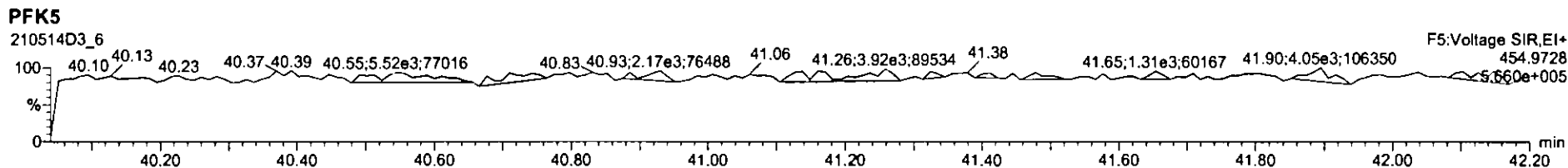
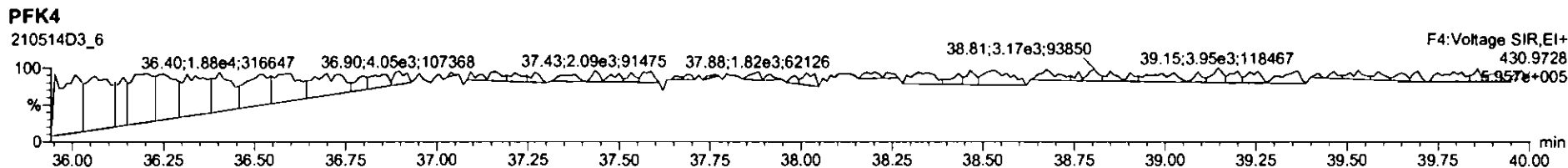
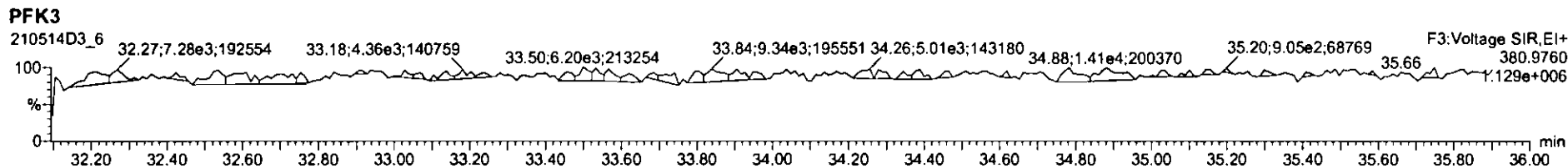
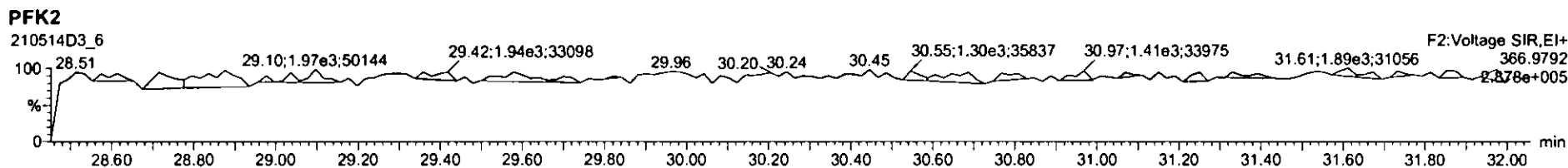
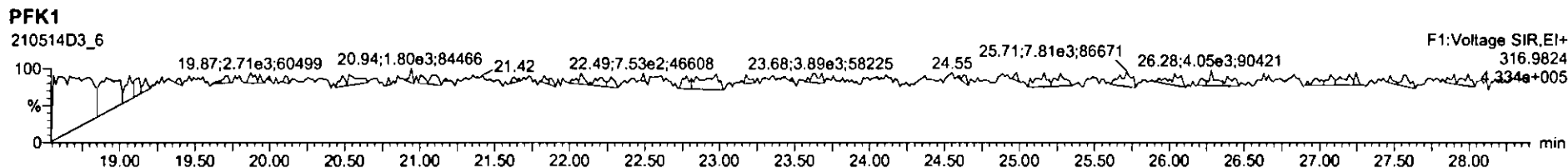
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Last Altered: Saturday, May 15, 2021 08:34:47 Pacific Daylight Time  
Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

Name: 210514D3\_6, Date: 14-May-2021, Time: 19:44:21, ID: 2104304-02 USMPDI-033SC-A-15-15.5-210427 16.34, Description: USMPDI-033SC-A-15-15.5-210427



Dataset: U:\VG7.PRO\Results\210514D3\210514D3-7.qld

Last Altered: Tuesday, June 01, 2021 13:58:05 Pacific Daylight Time

Printed: Tuesday, June 01, 2021 13:58:25 Pacific Daylight Time

*hp 6/1/2021*

*CT06/02/2021*

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07

Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

*xced.1*

Name: 210514D3\_7, Date: 14-May-2021, Time: 20:31:00, ID: 2104304-03 USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427, Task: ST210514D3-1

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	8.43e2	0.61	YES	1.05	10.093	26.98	1.001	2.5088		0.206	2.19
2 1,2,3,7,8-PeCDD	7.29e2	0.63	NO	0.881	10.093	31.15	1.000	3.4407		0.368	3.44
3 1,2,3,4,7,8-HxCDD	8.27e2	1.23	NO	1.14	10.093	34.61	1.001	4.6288		1.50	4.63
4 1,2,3,6,7,8-HxCDD	4.47e3	1.28	NO	1.01	10.093	34.73	1.000	22.538		1.39	22.5
5 1,2,3,7,8,9-HxCDD	2.24e3	1.29	NO	1.02	10.093	35.07	1.001	10.881		1.47	10.9
6 1,2,3,4,6,7,8-HpCDD	1.07e5	1.06	NO	1.07	10.093	38.54	1.001	607.20		6.64	607
7 OCDD	1.65e6	0.91	NO	1.00	10.093	42.26	1.001	12200 <i>E*</i>		8.25	12200
8 2,3,7,8-TCDF	3.45e4	0.75	NO	0.864	10.093	26.40	1.001	66.067		0.187	66.1
9 1,2,3,7,8-PeCDF	3.86e4	1.60	NO	0.948	10.093	30.02	1.000	90.083		1.01	90.1
10 2,3,4,7,8-PeCDF	2.35e4	1.66	NO	1.04	10.093	30.99	1.001	50.754		0.833	50.8
11 1,2,3,4,7,8-HxCDF	6.67e4	1.27	NO	1.04	10.093	33.63	1.001	192.68		1.04	193
12 1,2,3,6,7,8-HxCDF	1.94e4	1.26	NO	1.07	10.093	33.77	1.000	53.182		0.933	53.2
13 2,3,4,6,7,8-HxCDF	5.35e3	1.25	NO	1.12	10.093	34.50	1.001	15.621		0.964	15.6
14 1,2,3,7,8,9-HxCDF	3.63e3	1.27	NO	1.10	10.093	35.64	1.001	12.464		1.45	12.5
15 1,2,3,4,6,7,8-HpCDF	5.20e4	1.02	NO	1.16	10.093	37.26	1.001	204.94		2.02	205
16 1,2,3,4,7,8,9-HpCDF	1.01e4	1.01	NO	1.19	10.093	39.26	1.001	45.548		3.31	45.5
17 OCDF	1.30e5	0.88	NO	0.909	10.093	42.55	1.001	755.39		2.96	755
18 13C-2,3,7,8-TCDD	6.35e4	0.73	NO	1.15	10.093	26.97	1.024	176.25	88.9	0.484	
19 13C-1,2,3,7,8-PeCDD	4.76e4	0.63	NO	0.887	10.093	31.15	1.183	170.59	86.1	0.454	
20 13C-1,2,3,4,7,8-HxCDD	3.10e4	1.22	NO	0.645	10.093	34.58	1.014	130.23	65.7	0.946	
21 13C-1,2,3,6,7,8-HxCDD	3.89e4	1.22	NO	0.717	10.093	34.72	1.018	147.34	74.4	0.852	
22 13C-1,2,3,7,8,9-HxCDD	3.99e4	1.24	NO	0.714	10.093	35.05	1.028	151.74	76.6	0.855	
23 13C-1,2,3,4,6,7,8-HpCDD	3.28e4	1.07	NO	0.583	10.093	38.52	1.130	152.58	77.0	1.31	
24 13C-OCDD	5.33e4	0.85	NO	0.451	10.093	42.24	1.239	320.58	80.9 <i>*</i>	4.21	
25 13C-2,3,7,8-TCDF	1.20e5	0.77	NO	1.09	10.093	26.39	1.002	179.78	90.7	0.491	
26 13C-1,2,3,7,8-PeCDF	8.95e4	1.64	NO	0.805	10.093	30.02	1.140	181.98	91.8	0.876	
27 13C-2,3,4,7,8-PeCDF	8.84e4	1.59	NO	0.792	10.093	30.97	1.176	182.73	92.2	0.890	
28 13C-1,2,3,4,7,8-HxCDF	6.58e4	0.49	NO	0.997	10.093	33.61	0.986	178.97	90.3	1.34	
29 13C-1,2,3,6,7,8-HxCDF	6.73e4	0.51	NO	1.03	10.093	33.77	0.991	177.59	89.6	1.30	
30 13C-2,3,4,6,7,8-HxCDF	6.07e4	0.53	NO	0.940	10.093	34.48	1.011	175.35	88.5	1.42	

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-7.qld

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Name: 210514D3\_7, Date: 14-May-2021, Time: 20:31:00, ID: 2104304-03 USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427, Task: ST210514D3-1

Name	Resp	RA	ny	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31 13C-1,2,3,7,8,9-HxCDF	5.26e4	0.47	NO	0.852	10.093	35.60	1.044	167.26	84.4	1.57	
32 13C-1,2,3,4,6,7,8-HpCDF	4.33e4	0.40	NO	0.727	10.093	37.24	1.092	161.74	81.6	1.42	
33 13C-1,2,3,4,7,8,9-HpCDF	3.71e4	0.41	NO	0.608	10.093	39.23	1.151	165.40	83.5	1.69	
34 13C-OCDF	7.50e4	0.87	NO	0.631	10.093	42.53	1.248	322.60	81.4	3.16	
35 37Cl-2,3,7,8-TCDD	9.44e4			2.22	10.093	26.98	1.025	135.12	170	0.125	
36 13C-1,2,3,4-TCDD	6.24e4	0.74	NO	1.00	10.093	26.33	1.000	198.15	100	0.555	
37 13C-1,2,3,4-TCDF	1.21e5	0.76	NO	1.00	10.093	25.09	1.000	198.15	100	0.535	
38 13C-1,2,3,4,6,9-HxCDF	7.30e4	0.51	NO	1.00	10.093	34.09	1.000	198.15	100	1.34	
39 Total Tetra-Dioxins				1.05	10.093			12.496		0.206	16.5
40 Total Penta-Dioxins				0.881	10.093			30.240		0.368	31.7
41 Total Hexa-Dioxins				1.01	10.093			205.75		1.51	208
42 Total Hepta-Dioxins				1.07	10.093			1457.7		6.64	1460
43 Total Tetra-Furans				0.864	10.093			249.90		0.187	253
44 1st Func. Penta-Furans				0.948	10.093			30.292		0.0937	30.3
45 Total Penta-Furans				0.948	10.093			274.64		0.961	275
46 Total Hexa-Furans				1.12	10.093			472.70		1.05	477
47 Total Hepta-Furans				1.16	10.093			727.32		2.65	727

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-7.qld

Last Altered: Tuesday, June 01, 2021 13:58:05 Pacific Daylight Time

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Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07  
Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210514D3\_7, Date: 14-May-2021, Time: 20:31:00, ID: 2104304-03 USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427, Task: ST210514D3-1

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Dioxins	23.86	1.068e4	1.780e4	8.170e2	1.208e3	0.68	NO	2.025e3	6.0266	6.0266	0.206
2	Total Tetra-Dioxins	24.14	4.149e3	4.718e3	2.635e2	3.309e2	0.80	NO	5.944e2	1.7688	1.7688	0.206
3	Total Tetra-Dioxins	24.55	2.482e3	2.635e3	1.528e2	1.855e2	0.82	NO	3.384e2	1.0070	1.0070	0.206
4	Total Tetra-Dioxins	25.24	1.251e3	2.288e3	9.930e1	1.694e2	0.59	YES	0.000e0	0.00000	0.67926	0.206
5	Total Tetra-Dioxins	25.41	1.356e3	2.278e3	8.855e1	1.357e2	0.65	YES	0.000e0	0.00000	0.60572	0.206
6	Total Tetra-Dioxins	25.59	2.661e3	3.723e3	1.643e2	2.254e2	0.73	NO	3.897e2	1.1595	1.1595	0.206
7	Total Tetra-Dioxins	25.76	9.140e2	1.056e3	4.701e1	4.190e1	1.12	YES	0.000e0	0.00000	0.22069	0.206
8	Total Tetra-Dioxins	26.02	1.223e3	1.831e3	7.458e1	8.796e1	0.85	NO	1.625e2	0.48368	0.48368	0.206
9	Total Tetra-Dioxins	26.08	1.276e3	1.650e3	5.310e1	7.031e1	0.76	NO	1.234e2	0.36721	0.36721	0.206
10	Total Tetra-Dioxins	26.43	9.960e2	2.126e3	4.768e1	8.684e1	0.55	YES	0.000e0	0.00000	0.32617	0.206
11	Total Tetra-Dioxins	26.72	3.032e3	3.501e3	1.836e2	2.467e2	0.74	NO	4.303e2	1.2806	1.2806	0.206
12	2,3,7,8-TCDD	26.98	5.652e3	9.519e3	3.202e2	5.233e2	0.61	YES	8.434e2	0.00000	2.1899	0.206
13	Total Tetra-Dioxins	27.26	1.189e3	1.954e3	6.227e1	7.290e1	0.85	NO	1.352e2	0.40226	0.40226	0.206

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Dioxins	29.12	9.842e3	1.582e4	7.799e2	1.151e3	0.68	NO	1.931e3	9.1136	9.1136	0.368
2	Total Penta-Dioxins	29.54	3.992e3	7.528e3	1.964e2	3.412e2	0.58	NO	5.376e2	2.5378	2.5378	0.368
3	Total Penta-Dioxins	30.02	7.483e3	1.361e4	4.002e2	6.275e2	0.64	NO	1.028e3	4.8514	4.8514	0.368
4	Total Penta-Dioxins	30.18	5.356e3	8.085e3	4.255e2	6.908e2	0.62	NO	1.116e3	5.2697	5.2697	0.368
5	Total Penta-Dioxins	30.45	5.144e3	8.639e3	3.118e2	5.132e2	0.61	NO	8.251e2	3.8948	3.8948	0.368
6	Total Penta-Dioxins	30.73	1.429e3	1.350e3	6.003e1	8.159e1	0.74	YES	0.000e0	0.00000	0.62782	0.368
7	1,2,3,7,8-PeCDD	31.15	5.712e3	9.586e3	2.807e2	4.482e2	0.63	NO	7.289e2	3.4407	3.4407	0.368
8	Total Penta-Dioxins	31.23	1.936e3	2.340e3	6.668e1	1.042e2	0.83	YES	0.000e0	0.00000	0.80186	0.368
9	Total Penta-Dioxins	31.49	1.660e3	2.548e3	8.872e1	1.510e2	0.59	NO	2.398e2	1.1318	1.1318	0.368

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-7.qld

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Name: 210514D3\_7, Date: 14-May-2021, Time: 20:31:00, ID: 2104304-03 USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427, Task: ST210514D3-1

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Dioxins	32.25	8.060e2	1.350e4	3.169e1	7.933e2	0.04	YES	0.000e0	0.00000	0.30648	1.51
2	Total Hexa-Dioxins	32.83	1.416e5	1.087e5	8.399e3	6.348e3	1.32	NO	1.475e4	78.952	78.952	1.51
3	Total Hexa-Dioxins	33.48	1.338e4	1.009e4	8.649e2	6.069e2	1.43	NO	1.472e3	7.8798	7.8798	1.51
4	Total Hexa-Dioxins	33.80	1.069e5	7.890e4	8.603e3	6.502e3	1.32	NO	1.511e4	80.873	80.873	1.51
5	1,2,3,4,7,8-HxCDD	34.61	6.969e3	6.400e3	4.569e2	3.702e2	1.23	NO	8.271e2	4.6288	4.6288	1.50
6	1,2,3,6,7,8-HxCDD	34.73	3.237e4	2.829e4	2.511e3	1.964e3	1.28	NO	4.475e3	22.538	22.538	1.39
7	Total Hexa-Dioxins	34.93	3.770e3	3.040e3	2.394e2	1.555e2	1.54	YES	0.000e0	0.00000	1.8651	1.51
8	1,2,3,7,8,9-HxCDD	35.07	1.436e4	1.342e4	1.260e3	9.756e2	1.29	NO	2.236e3	10.881	10.881	1.47

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hepta-Dioxins	37.58	7.861e5	7.528e5	7.656e4	7.338e4	1.04	NO	1.500e5	850.45	850.45	6.64
2	1,2,3,4,6,7,8-HpCDD	38.54	5.108e5	4.918e5	5.497e4	5.210e4	1.06	NO	1.071e5	607.20	607.20	6.64



Dataset: U:\VG7.PRO\Results\210514D3\210514D3-7.qld

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Name: 210514D3\_7, Date: 14-May-2021, Time: 20:31:00, ID: 2104304-03 USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427, Task: ST210514D3-1

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Tetra-Furans	22.00	5.912e3	7.888e3	5.108e2	5.878e2	0.87	NO	1.099e3	2.1025	2.1025	0.187
2 Total Tetra-Furans	22.52	7.325e3	8.419e3	5.953e2	7.799e2	0.76	NO	1.375e3	2.6320	2.6320	0.187
3 Total Tetra-Furans	23.19	4.448e4	5.609e4	3.344e3	4.147e3	0.81	NO	7.491e3	14.337	14.337	0.187
4 Total Tetra-Furans	23.56	1.603e4	1.771e4	1.830e3	2.229e3	0.82	NO	4.059e3	7.7680	7.7680	0.187
5 Total Tetra-Furans	23.89	6.943e4	1.015e5	5.364e3	7.064e3	0.76	NO	1.243e4	23.787	23.787	0.187
6 Total Tetra-Furans	24.26	3.293e4	4.376e4	2.359e3	2.934e3	0.80	NO	5.293e3	10.131	10.131	0.187
7 Total Tetra-Furans	24.37	5.030e3	6.881e3	3.012e2	4.081e2	0.74	NO	7.093e2	1.3576	1.3576	0.187
8 Total Tetra-Furans	24.55	1.587e4	1.868e4	1.050e3	1.252e3	0.84	NO	2.302e3	4.4057	4.4057	0.187
9 Total Tetra-Furans	24.89	3.092e3	2.389e3	1.561e2	1.542e2	1.01	YES	0.000e0	0.00000	0.52244	0.187
10 Total Tetra-Furans	24.97	5.519e3	5.496e3	3.079e2	3.005e2	1.02	YES	0.000e0	0.00000	1.0178	0.187
11 Total Tetra-Furans	25.16	5.960e4	7.826e4	5.736e3	7.260e3	0.79	NO	1.300e4	24.874	24.874	0.187
12 Total Tetra-Furans	25.56	2.266e5	2.975e5	1.422e4	1.906e4	0.75	NO	3.328e4	63.698	63.698	0.187
13 Total Tetra-Furans	25.84	9.794e3	1.234e4	5.395e2	7.074e2	0.76	NO	1.247e3	2.3865	2.3865	0.187
14 Total Tetra-Furans	25.91	3.686e3	5.851e3	2.645e2	3.216e2	0.82	NO	5.861e2	1.1217	1.1217	0.187
15 Total Tetra-Furans	26.17	3.921e3	4.532e3	2.085e2	2.670e2	0.78	NO	4.756e2	0.91017	0.91017	0.187
16 Total Tetra-Furans	26.29	4.660e4	6.337e4	2.501e3	3.532e3	0.71	NO	6.033e3	11.547	11.547	0.187
17 2,3,7,8-TCDF	26.40	2.483e5	3.531e5	1.484e4	1.968e4	0.75	NO	3.452e4	66.067	66.067	0.187
18 Total Tetra-Furans	26.66	1.340e4	1.810e4	8.740e2	1.271e3	0.69	NO	2.145e3	4.1051	4.1051	0.187
19 Total Tetra-Furans	26.89	6.132e3	5.912e3	2.801e2	3.808e2	0.74	NO	6.609e2	1.2649	1.2649	0.187
20 Total Tetra-Furans	27.69	6.059e3	9.453e3	3.574e2	5.007e2	0.71	NO	8.581e2	1.6423	1.6423	0.187
21 Total Tetra-Furans	27.87	8.826e3	7.755e3	4.394e2	3.662e2	1.20	YES	0.000e0	0.00000	1.2405	0.187
22 Total Tetra-Furans	28.04	2.071e4	3.022e4	1.246e3	1.767e3	0.71	NO	3.013e3	5.7671	5.7671	0.187

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 1st Func. Penta-Furans	27.69	1.469e5	8.569e4	8.124e3	4.777e3	1.70	NO	1.290e4	30.292	30.292	0.0937

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-7.qld

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Name: 210514D3\_7, Date: 14-May-2021, Time: 20:31:00, ID: 2104304-03 USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427, Task: ST210514D3-1

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Furans	28.98	1.366e4	7.148e3	8.808e2	5.078e2	1.73	NO	1.389e3	3.2602	3.2602	0.961
2	Total Penta-Furans	29.14	2.820e5	1.653e5	1.762e4	1.032e4	1.71	NO	2.794e4	65.606	65.606	0.961
3	Total Penta-Furans	29.56	3.457e3	2.567e3	2.920e2	1.661e2	1.76	NO	4.581e2	1.0756	1.0756	0.961
4	Total Penta-Furans	29.70	7.373e4	4.662e4	4.324e3	2.704e3	1.60	NO	7.027e3	16.500	16.500	0.961
5	Total Penta-Furans	29.84	6.104e4	4.149e4	2.899e3	1.914e3	1.51	NO	4.813e3	11.300	11.300	0.961
6	1,2,3,7,8-PeCDF	30.02	4.894e5	3.103e5	2.372e4	1.487e4	1.60	NO	3.860e4	90.083	90.083	1.01
7	Total Penta-Furans	30.26	1.847e5	9.445e4	8.290e3	5.034e3	1.65	NO	1.332e4	31.285	31.285	0.961
8	Total Penta-Furans	30.81	5.534e3	2.427e3	3.338e2	2.258e2	1.48	NO	5.596e2	1.3139	1.3139	0.961
9	2,3,4,7,8-PeCDF	30.99	2.777e5	1.756e5	1.467e4	8.844e3	1.66	NO	2.351e4	50.754	50.754	0.833
10	Total Penta-Furans	31.85	1.027e4	7.967e3	9.312e2	5.437e2	1.71	NO	1.475e3	3.4630	3.4630	0.961

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Furans	32.26	7.218e4	6.126e4	4.174e3	3.291e3	1.27	NO	7.465e3	21.492	21.492	1.05
2	Total Hexa-Furans	32.45	2.468e5	2.012e5	1.422e4	1.165e4	1.22	NO	2.587e4	74.469	74.469	1.05
3	Total Hexa-Furans	32.90	5.862e3	4.441e3	3.655e2	2.526e2	1.45	YES	0.000e0	0.00000	1.6288	1.05
4	Total Hexa-Furans	33.13	3.107e5	2.513e5	1.803e4	1.445e4	1.25	NO	3.248e4	93.508	93.508	1.05
5	Total Hexa-Furans	33.48	6.812e3	5.904e3	4.285e2	4.279e2	1.00	YES	0.000e0	0.00000	2.2287	1.05
6	1,2,3,4,7,8-HxCDF	33.63	5.794e5	4.283e5	3.728e4	2.945e4	1.27	NO	6.673e4	192.68	192.68	1.04
7	1,2,3,6,7,8-HxCDF	33.77	1.727e5	1.324e5	1.082e4	8.596e3	1.26	NO	1.941e4	53.182	53.182	0.933
8	2,3,4,6,7,8-HxCDF	34.50	4.693e4	3.718e4	2.967e3	2.383e3	1.25	NO	5.350e3	15.621	15.621	0.964
9	Total Hexa-Furans	34.53	2.863e4	2.038e4	5.346e2	4.253e2	1.26	NO	9.599e2	2.7636	2.7636	1.05
10	1,2,3,7,8,9-HxCDF	35.64	4.024e4	3.018e4	2.032e3	1.600e3	1.27	NO	3.632e3	12.464	12.464	1.45
11	Total Hexa-Furans	35.65	3.271e4	2.447e4	1.291e3	9.736e2	1.33	NO	2.265e3	6.5200	6.5200	1.05

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Name: 210514D3\_7, Date: 14-May-2021, Time: 20:31:00, ID: 2104304-03 USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427,  
 Task: ST210514D3-1

Hepta-Furans

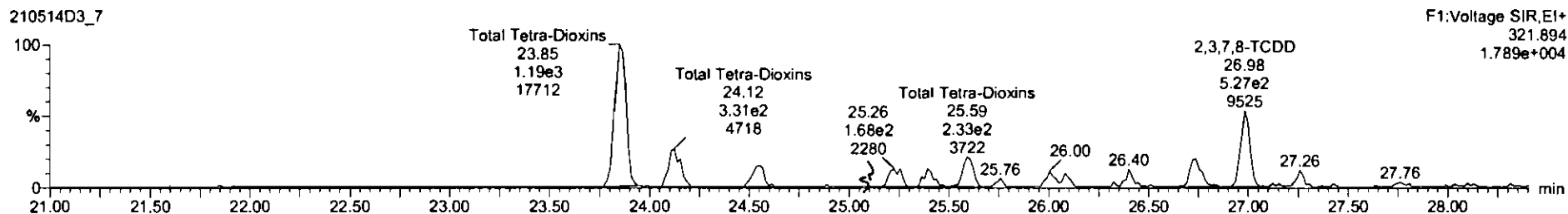
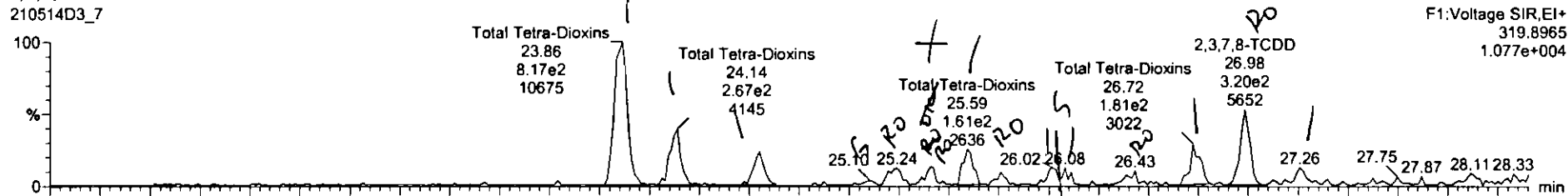
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.26	3.271e5	3.129e5	2.623e4	2.576e4	1.02	NO	5.200e4	204.94	204.94	2.02
2	Total Hepta-Furans	37.64	5.754e3	5.130e3	4.244e2	4.213e2	1.01	NO	8.456e2	3.5930	3.5930	2.65
3	Total Hepta-Furans	37.84	6.027e5	5.864e5	5.609e4	5.529e4	1.01	NO	1.114e5	473.24	473.24	2.65
4	1,2,3,4,7,8,9-HpCDF	39.26	4.069e4	4.246e4	5.088e3	5.026e3	1.01	NO	1.011e4	45.548	45.548	3.31

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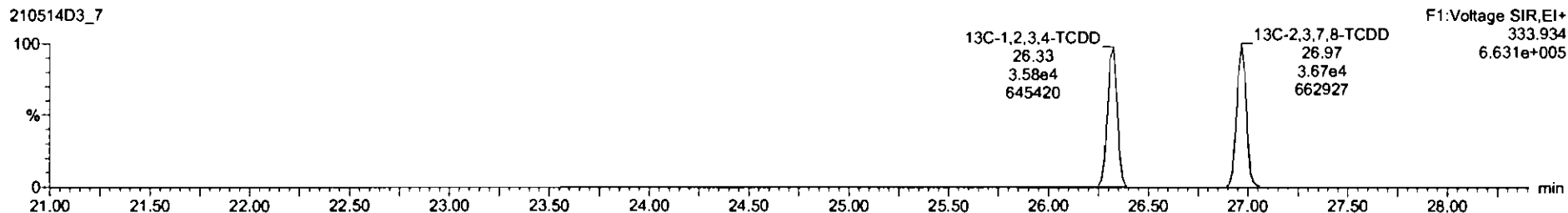
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Name: 210514D3\_7, Date: 14-May-2021, Time: 20:31:00, ID: 2104304-03 USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427

2,3,7,8-TCDD



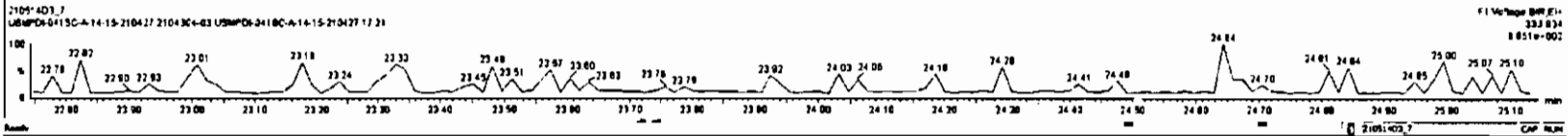
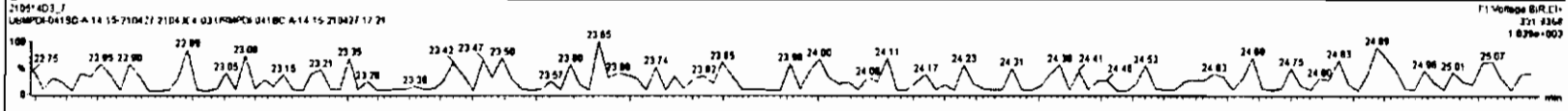
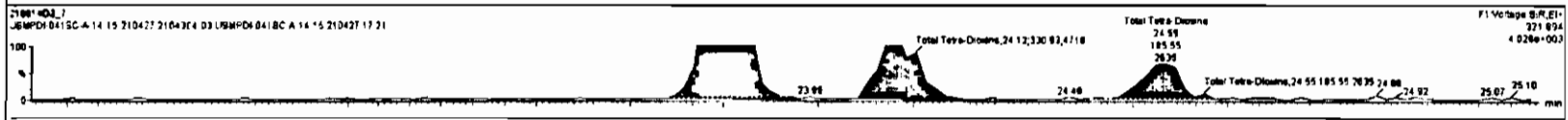
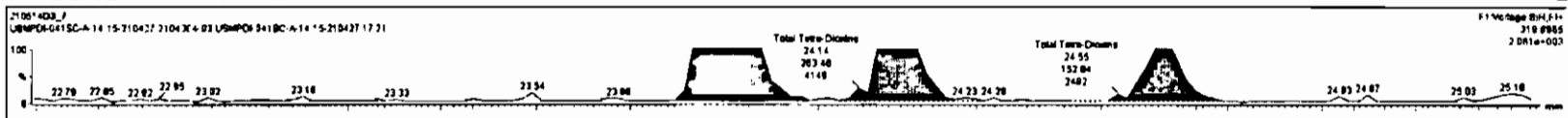
13C-2,3,7,8-TCDD



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RT	Name	Area	RA	Qty	Unit	RT	Qty	Conc.	uMol	g/L	
30	13C-1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100	6.07e6	0.53	NO	0.86	10.000	34.48	1.014	1.75	88.5	1.42
31	13C-1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100	5.26e6	0.47	NO	0.86	10.000	36.00	1.244	1.87	84.4	1.57
32	13C-1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100	4.75e6	0.40	NO	0.73	10.000	37.24	1.262	1.82	81.8	1.42
33	13C-1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100	3.71e6	0.41	NO	0.81	10.000	38.23	1.151	1.86	85.5	1.88
34	13C-1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100	7.82e6	0.87	NO	0.83	10.000	47.63	1.348	3.22	81.4	3.14
35	13C-1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100	6.44e6			2.22	10.000	28.88	1.825	1.35	170	0.125
36	13C-1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100	6.24e6	0.74	NO	1.00	10.000	28.23	1.000	1.88	100	0.886
37	13C-1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100	1.71e6	0.76	NO	1.00	10.000	25.08	1.000	1.88	100	0.536

RT	Name	Area	RA	Qty	Unit	RT	Qty	Conc.
1	2,3,7,8-TCDD	26.88	3.207e2	6.253e2	0.81	YES	2.1888	0.00000
2	Total Tetra-Chlorine	26.72	1.818e2	2.487e2	0.74	NO	1.2806	1.2806
3	Total Tetra-Chlorine	25.88	1.843e2	2.286e2	0.73	NO	1.1995	1.1995
4	Total Tetra-Chlorine	24.98	1.828e2	1.856e2	0.82	NO	1.0870	1.0870
5	Total Tetra-Chlorine	24.14	2.825e2	3.308e2	0.80	NO	1.7888	1.7888
6	Total Tetra-Chlorine	23.88	8.170e1	1.208e1	0.88	NO	0.0286	0.0286
7	Total Tetra-Chlorine	25.08	5.210e1	7.031e1	0.76	NO	0.38721	0.38721
8	Total Tetra-Chlorine	27.26	8.227e1	7.280e1	0.86	NO	0.40228	0.40228
9	Total Tetra-Chlorine	28.13	4.871e1	8.881e1	0.83	YES	0.2887	0.2887

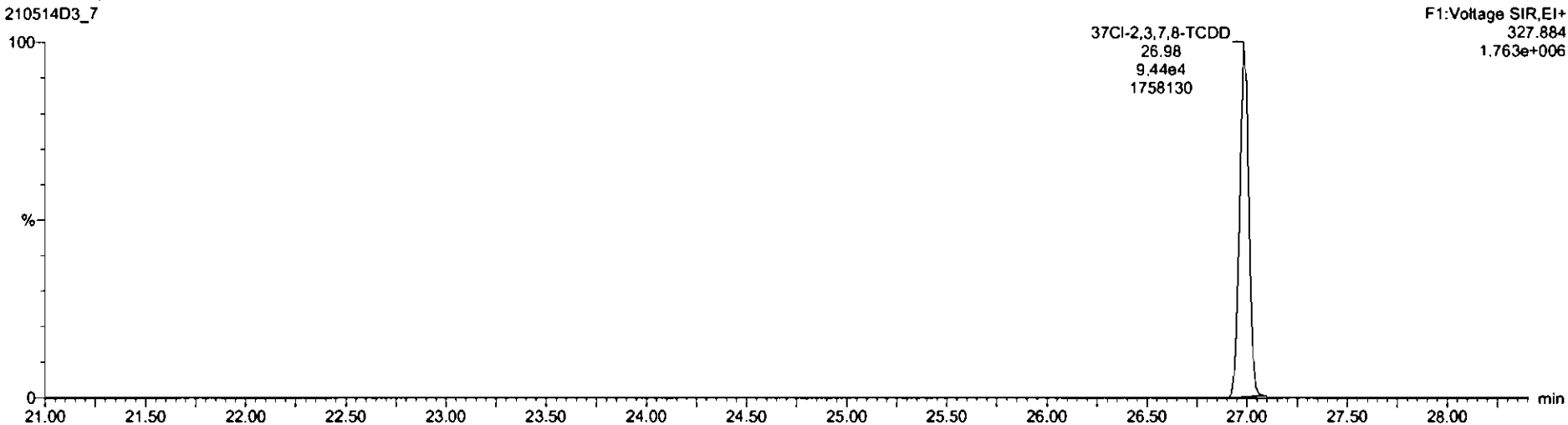


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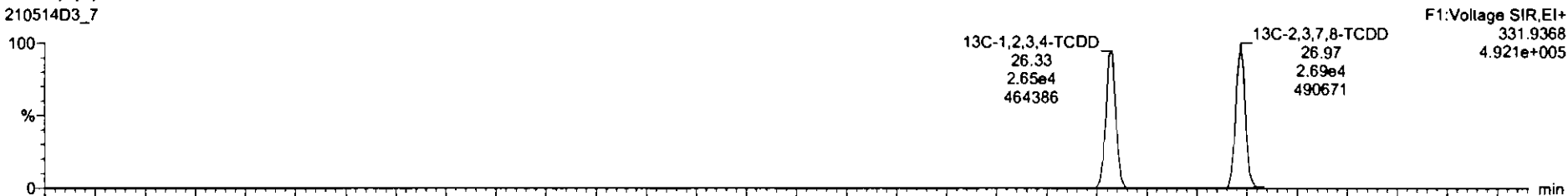
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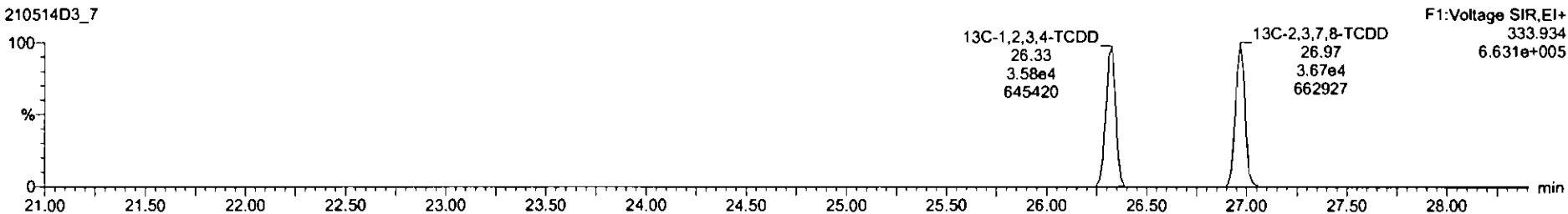
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13C-1,2,3,4-TCDD  
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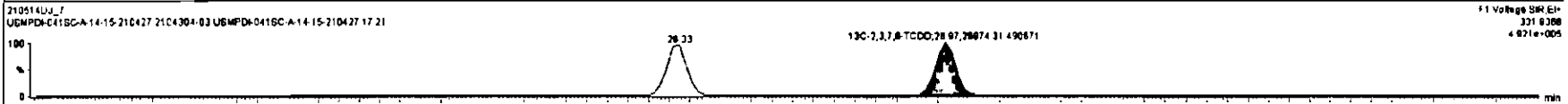
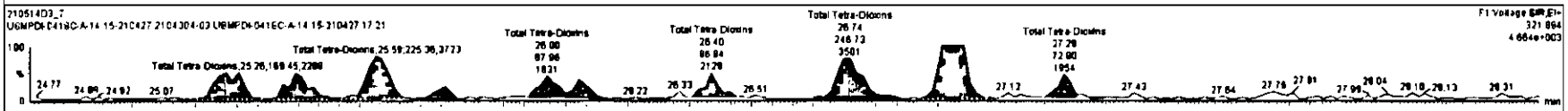
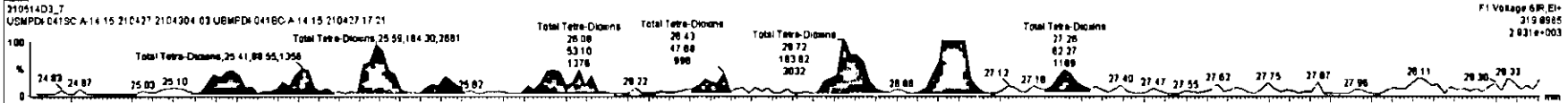


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Name	Peak	RA	rvy	RPF	wtAve	RT	RRT	Conc	%Rec	DL	EMPC
13C-2,3,4,7,8-HsCDF	6.07e4	0.53	NO	0.94	10.080	34.48	1.011	175	98.5		1.42
13C-1,2,3,7,8-HsCDF	5.26e4	0.47	NO	0.86	10.080	35.80	1.044	167	94.4		1.67
13C-1,2,3,4,7,8-HsCDF	4.33e4	0.40	NO	0.73	10.080	37.24	1.082	162	91.8		1.42
13C-1,2,3,4,7,8-HsCDF	3.71e4	0.41	NO	0.81	10.080	38.23	1.151	185	83.5		1.88
13C-OCDF	7.50e4	0.87	NO	0.63	10.080	42.53	1.248	323	91.4		3.18
3PO-2,3,7,8-TCDD	9.44e4			2.72	10.093	26.98	1.025	135	170		0.125
13C-1,2,3,4-TCDD	6.24e4	0.74	NO	1.00	10.083	28.33	1.000	180	100		0.555
13C-1,2,3,4-TCDF	1.21e5	0.78	NO	1.00	10.083	25.08	1.000	188	100		0.636

Name	RT	wt Peak	wt Peak	RA	rvy	EMPC	Conc
Total Tetra-Dioxins	23.88	8.170e2	1.208e3	0.88	NO	6.0285	6.0285
Total Tetra-Dioxins	24.14	2.635e2	3.303e2	0.80	NO	1.7889	1.7889
Total Tetra-Dioxins	24.55	1.538e2	1.898e2	0.82	NO	1.0239	1.0239
Total Tetra-Dioxins	25.24	8.833e1	1.894e2	0.58	YES	0.67925	0.00000
Total Tetra-Dioxins	25.41	8.865e1	1.357e2	0.66	YES	0.86972	0.00000
Total Tetra-Dioxins	25.98	1.843e3	2.254e2	0.73	NO	1.1595	1.1595
Total Tetra-Dioxins	26.76	4.701e1	4.180e1	1.12	YES	0.22088	0.00000
Total Tetra-Dioxins	28.02	7.458e1	8.728e1	0.86	NO	0.48288	0.48288
Total Tetra-Dioxins	28.08	5.310e1	7.021e1	0.76	NO	0.36721	0.36721



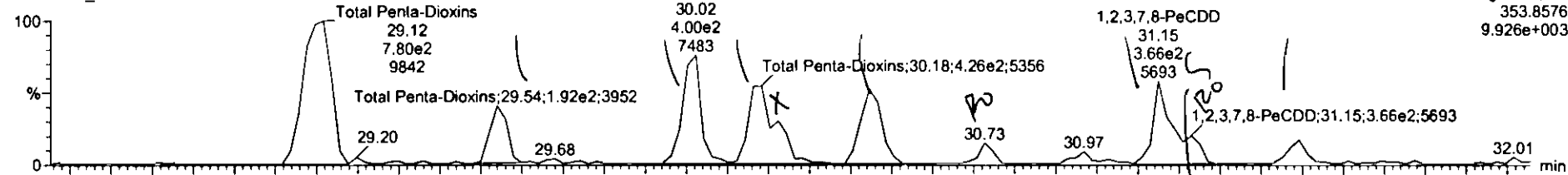
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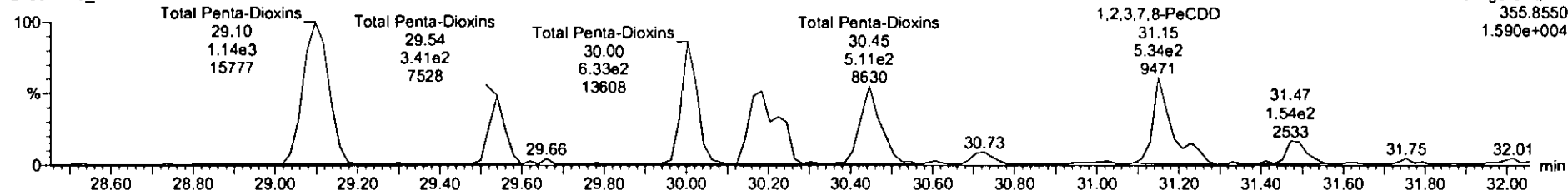
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1,2,3,7,8-PeCDD

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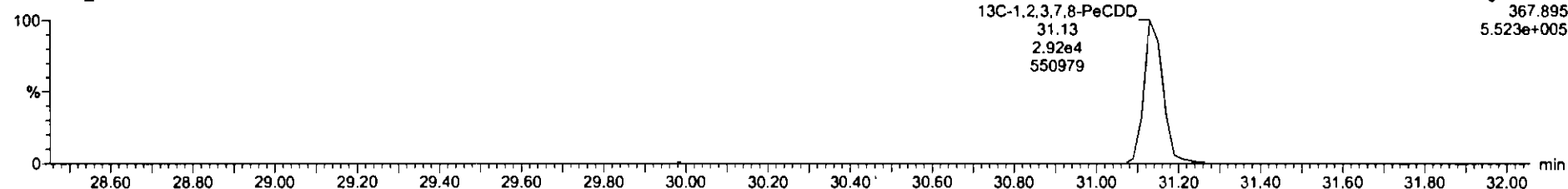


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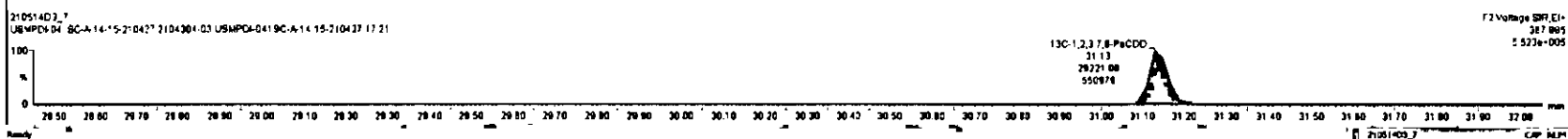
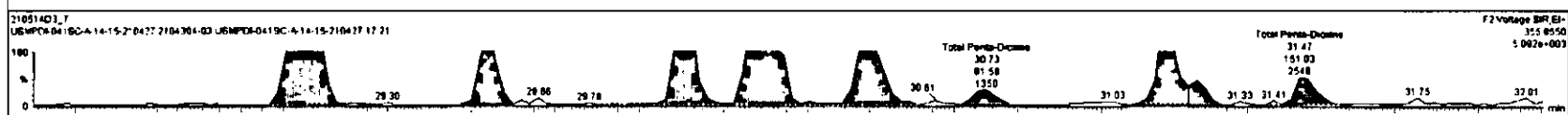
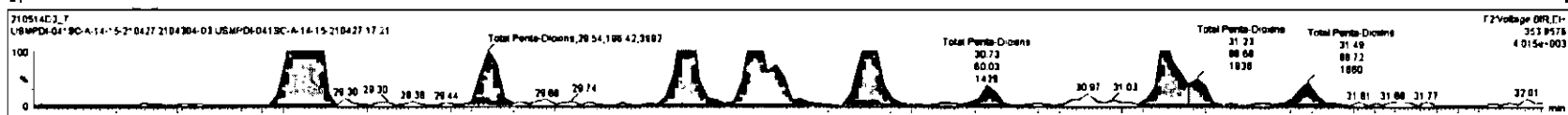
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Name	Range	RA	nY	RF	WtAve	RT	RRT	Comp	%Rec	DL	EMPC
25	13C-2,3,7,8-TCDF	1.20e4	0.77	NO	1.08	10.083	26.38	1.022	180	80.7	0.481
26	13C-1,2,3,7,8-PeCDF	8.98e4	1.64	NO	0.80	10.083	30.02	1.190	182	87.6	0.875
27	13C-2,3,4,7,8-PeCDF	8.98e4	1.58	NO	0.78	10.083	30.87	1.176	183	82.2	0.880
28	13C-1,2,3,4,7,8-HxCDF	8.98e4	0.48	NO	1.00	10.083	32.91	0.888	179	80.3	1.34
29	13C-1,2,3,7,8-HxCDF	6.73e4	0.51	NO	1.03	10.083	33.77	0.981	178	88.6	1.30
30	13C-2,3,4,7,8-HxCDF	6.97e4	0.53	NO	0.94	10.083	34.48	1.011	175	88.5	1.42
31	13C-1,2,3,7,8-HxCDF	9.28e4	0.47	NO	0.85	10.083	35.80	1.044	187	84.4	1.97
32	13C-1,2,3,4,7,8-HxCDF	4.33e4	0.48	NO	0.73	10.083	37.24	1.080	182	81.8	1.42

Name	RT	Wt Range	RD Range	RA	nY	EMPC	Comp
1	Total Penta-Dioxins	29.12	7.788e2	1.151e3	0.88	NO	8.1138
2	Total Penta-Dioxins	29.54	1.984e2	3.472e2	0.59	NO	2.5379
3	Total Penta-Dioxins	30.82	4.020e2	8.279e2	0.84	NO	4.8974
4	Total Penta-Dioxins	29.16	4.29e2	8.808e2	0.82	NO	5.2887
5	Total Penta-Dioxins	30.95	3.118e2	5.132e2	0.81	NO	3.8948
6	Total Penta-Dioxins	30.73	8.023e1	8.158e1	0.74	YES	0.83782
7	1,2,3,7,8-PeCDD	31.15	2.822e2	4.482e2	0.83	NO	3.4407
8	Total Penta-Dioxins	31.23	8.888e1	1.042e2	0.83	YES	0.80188
9	Total Penta-Dioxins	31.48	8.872e1	1.510e2	0.59	NO	1.1318

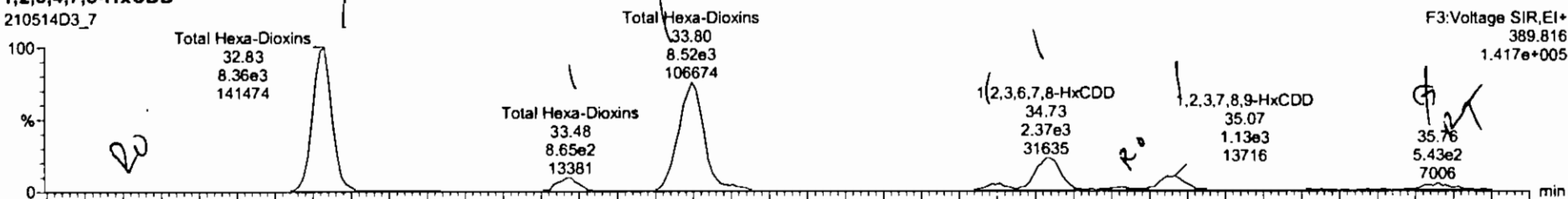


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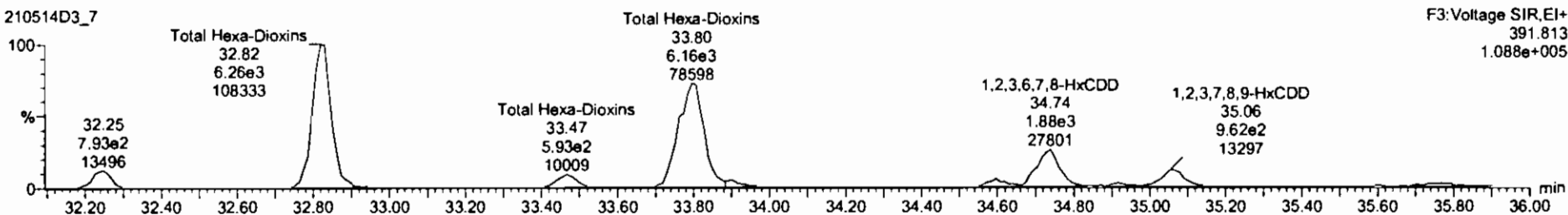
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Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

Name: 210514D3\_7, Date: 14-May-2021, Time: 20:31:00, ID: 2104304-03 USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427

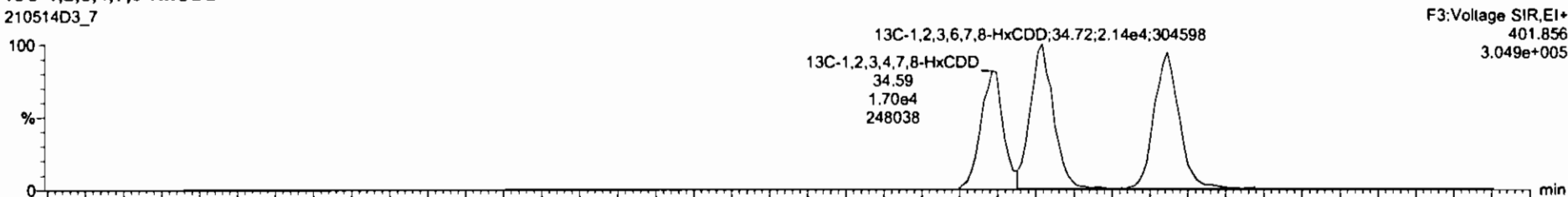
1,2,3,4,7,8-HxCDD  
210514D3\_7



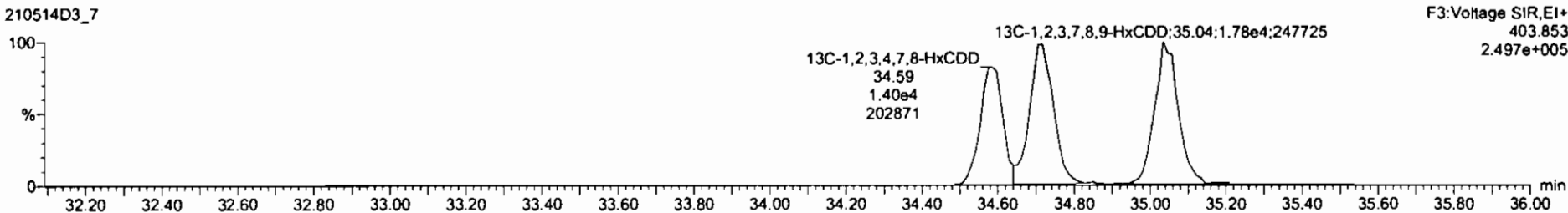
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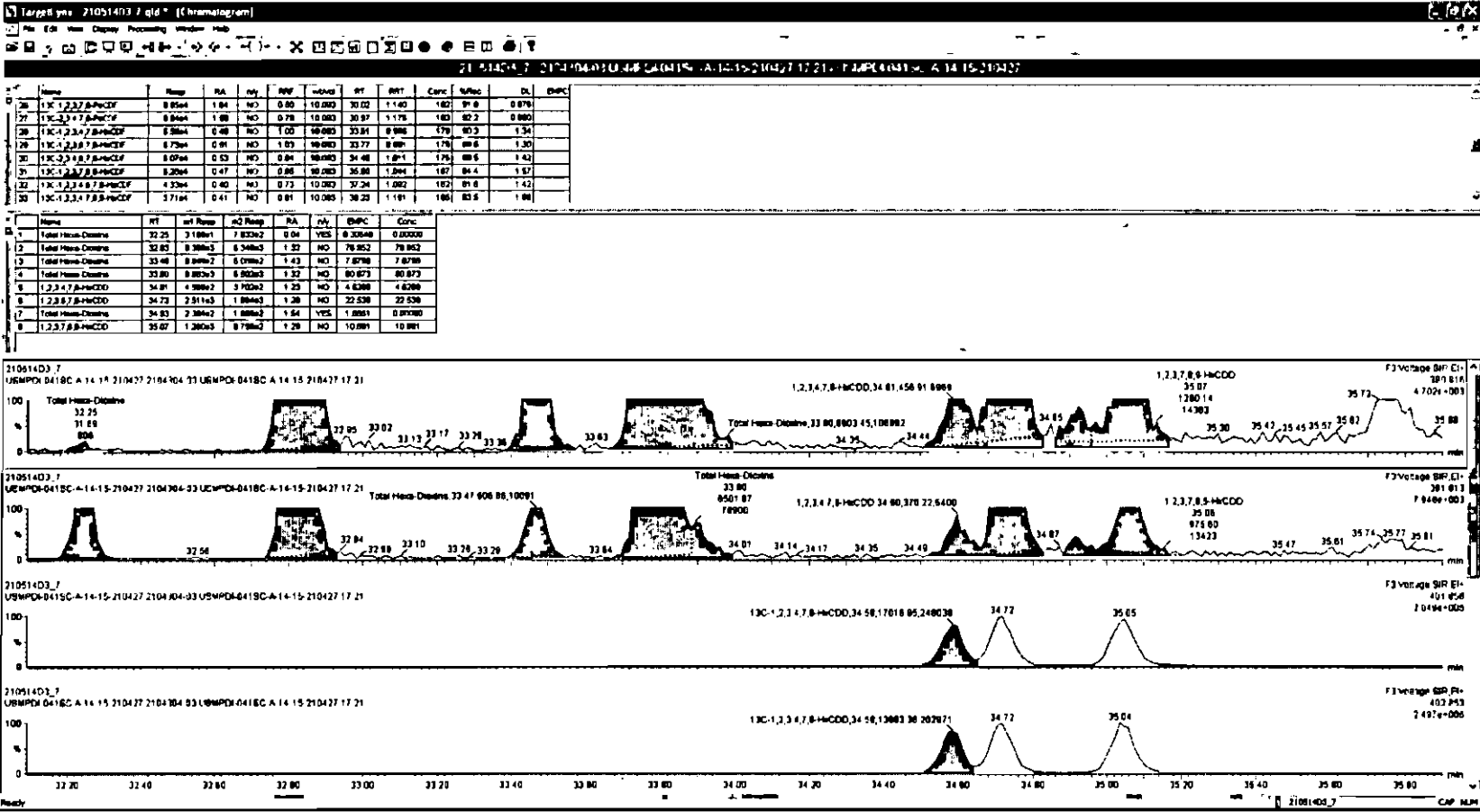


13C-1,2,3,4,7,8-HxCDD  
210514D3\_7



210514D3\_7





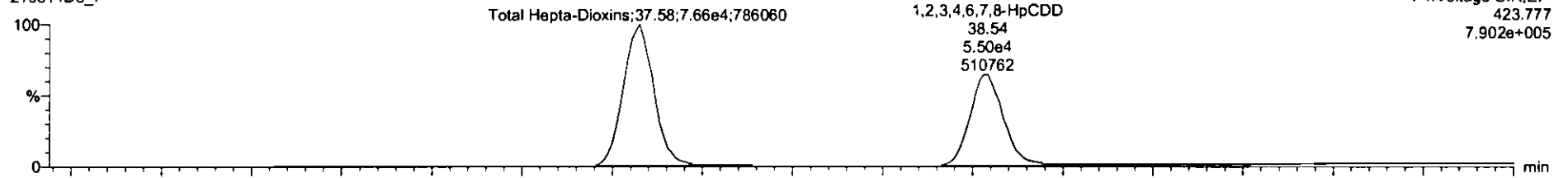
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Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

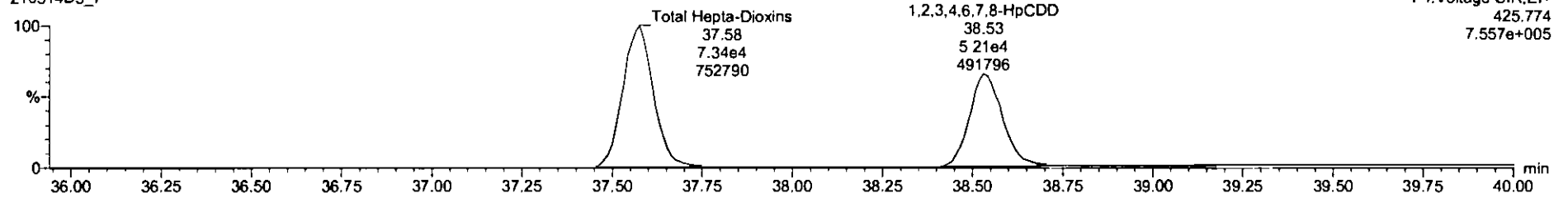
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1,2,3,4,6,7,8-HpCDD

210514D3\_7

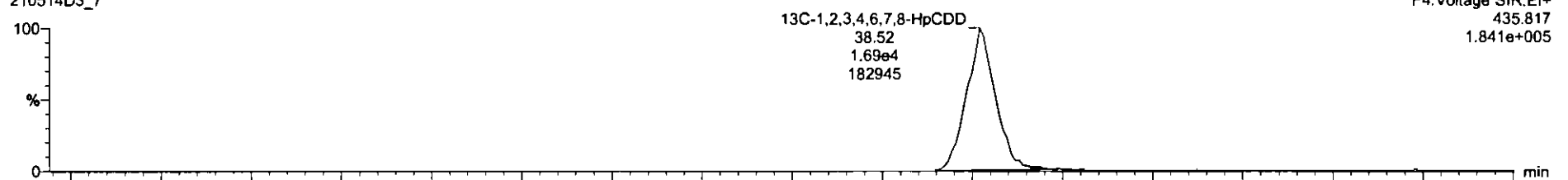


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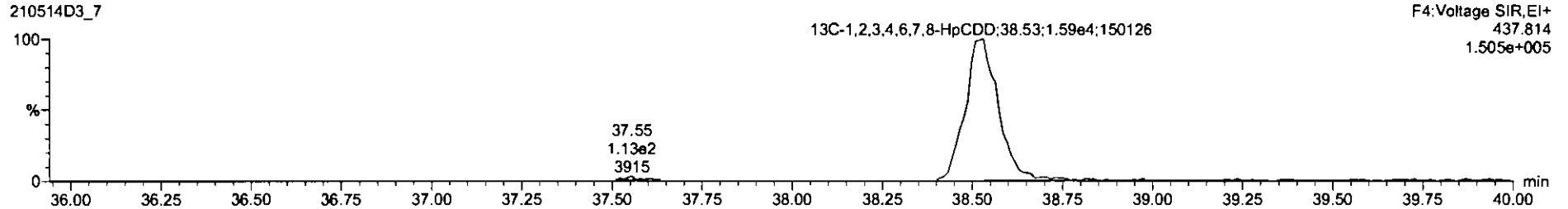


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210514D3\_7



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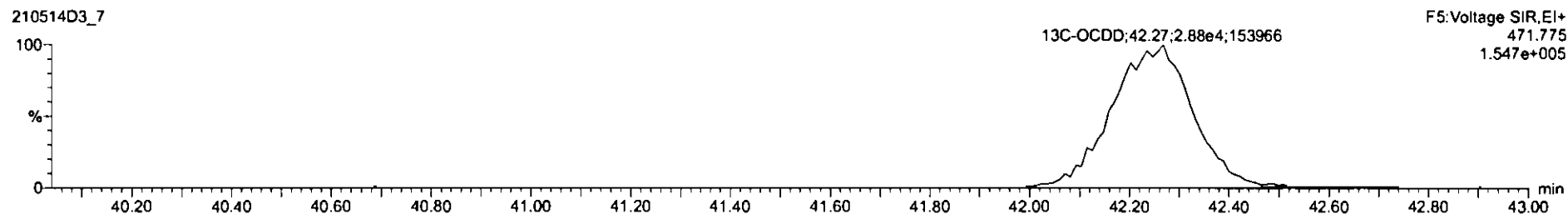
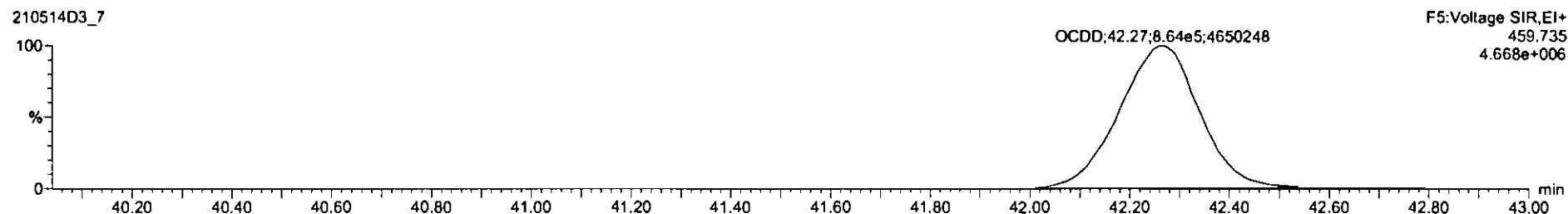
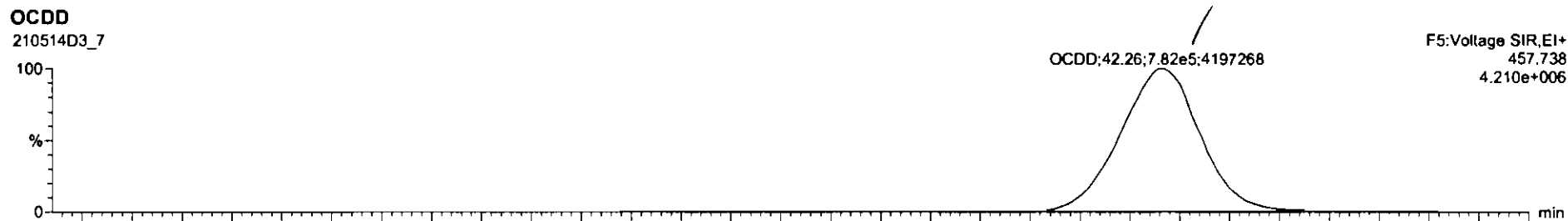


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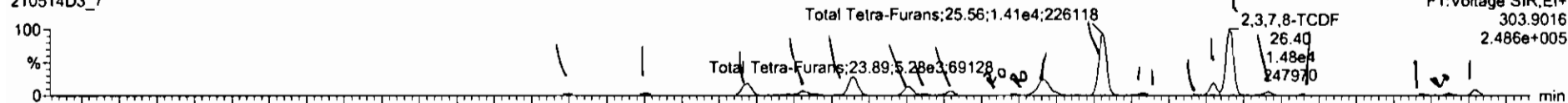
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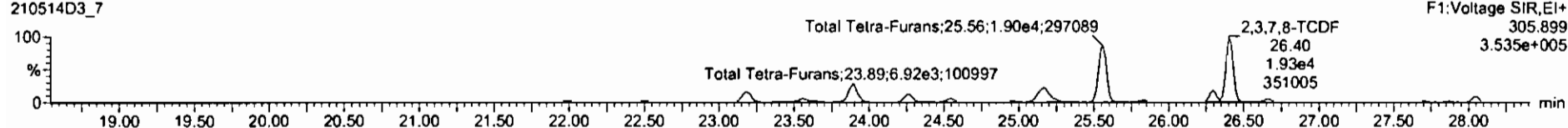
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**2,3,7,8-TCDF**

210514D3\_7



210514D3\_7

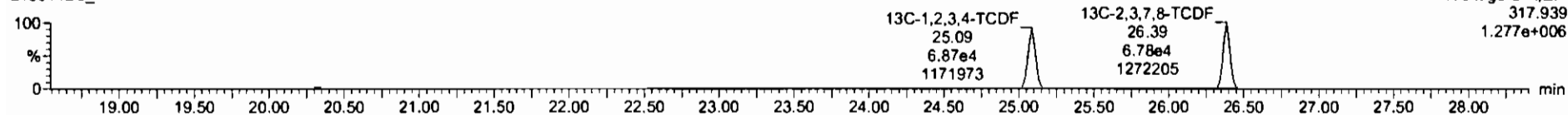


**13C-2,3,7,8-TCDF**

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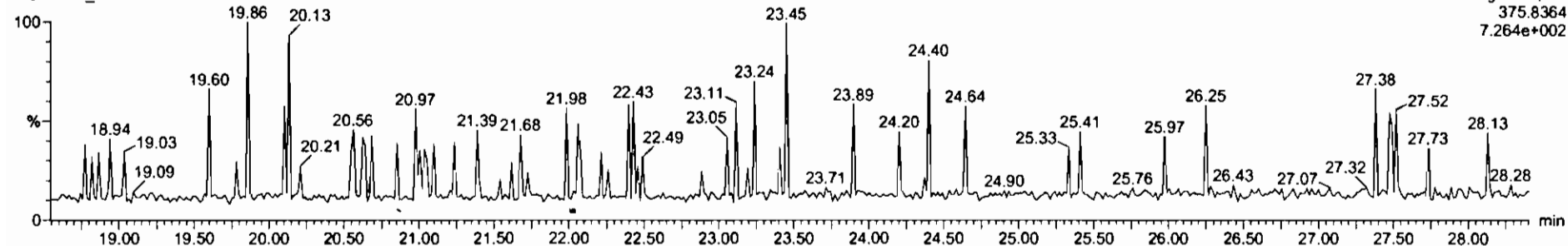


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**DPE1**

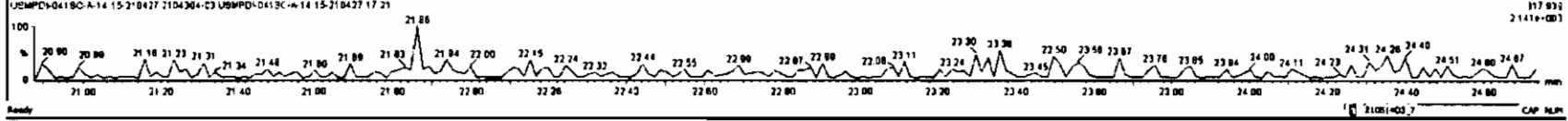
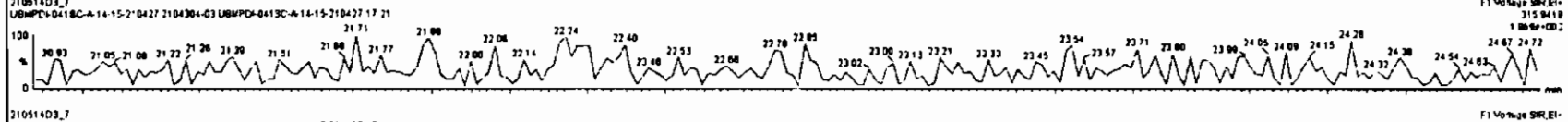
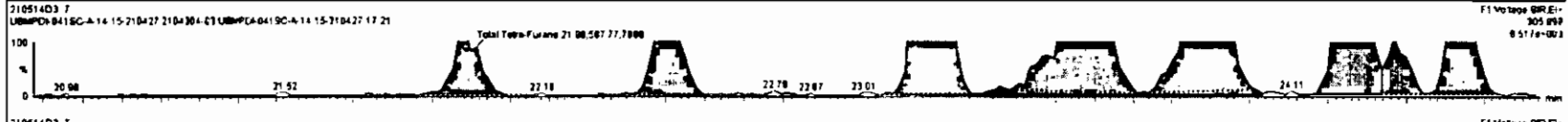
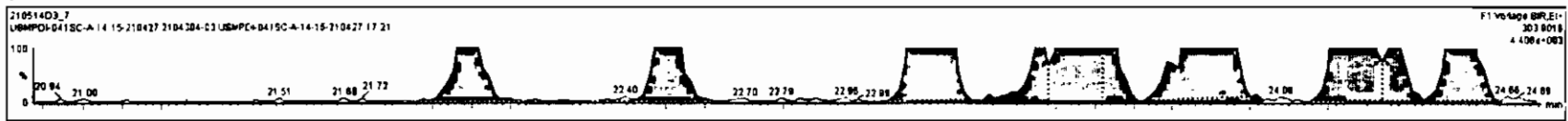
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21051403.7 2104304.03 UBMPD-D41SC-A-14-15-210427 17.21 UBMPD-D41SC-A-14-15-210427

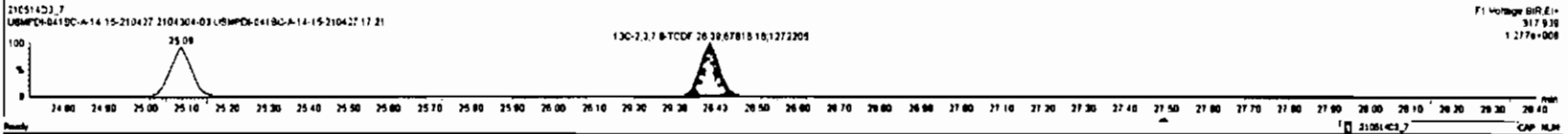
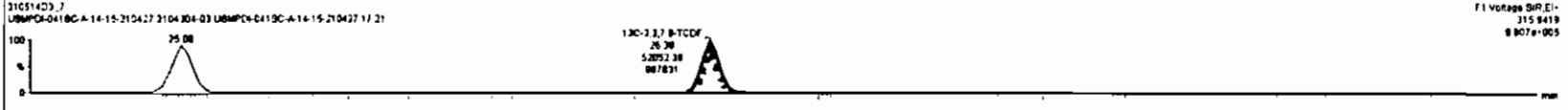
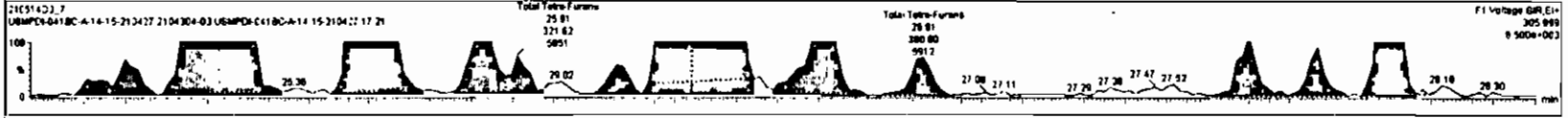
Name	Resp	RA	inj	RFV	wtVid	RT	RTT	Conc	%Rec	DL	BMP
42 Total Tetro-Furans				1.07	10.083			1480		8.84	1.660
43 Total Tetro-Furans				0.88	10.083			750		0.162	263
44 Tot Furec Furans-Furans				0.85	10.083			30.3		0.0837	30.3
45 Total Furans-Furans				0.85	10.083			268		0.981	271
46 Total Hmo-Furans				1.12	10.083			471		1.05	473
47 Total Hmo-Furans				1.18	10.083			714		2.85	716
48 RF#1											
49 RF#2											

Name	RT	wt Resp	m2 Resp	RA	inj	BMP	Conc
1 Total Tetro-Furans	22.00	5.108e2	5.878e2	0.87	NO	2.1025	2.1025
2 Total Tetro-Furans	22.52	5.953e2	7.708e2	0.78	NO	2.8320	2.8320
3 Total Tetro-Furans	23.18	3.344e3	4.147e3	0.81	NO	14.337	14.337
4 Total Tetro-Furans	23.98	1.830e3	2.229e3	0.82	NO	7.7880	7.7880
5 Total Tetro-Furans	25.89	5.364e3	7.084e3	0.76	NO	25.787	25.787
6 Total Tetro-Furans	24.28	2.288e3	2.834e3	0.80	NO	18.131	18.131
7 Total Tetro-Furans	24.27	3.819e2	4.881e2	0.74	NO	1.3678	1.3678
8 Total Tetro-Furans	24.86	1.978e3	1.252e3	0.84	NO	4.4957	4.4957
9 Total Tetro-Furans	24.88	1.991e3	1.543e2	1.01	YES	0.52244	0.52244



Peak	RT	Area	Height	Width	Skew	Conc.	%Area	CL	EMPC
42	25.08	1.207	10.000	1.000	1.000	1.000	0.001	1.000	1.000
43	25.17	0.85	10.000	1.000	1.000	0.85	0.102	25.17	0.85
44	25.28	0.85	10.000	1.000	1.000	0.85	0.102	25.28	0.85
45	25.33	0.85	10.000	1.000	1.000	0.85	0.102	25.33	0.85
46	25.41	1.12	10.000	1.000	1.000	1.12	0.138	25.41	1.12
47	25.71	1.16	10.000	1.000	1.000	1.16	0.143	25.71	1.16
48									
49									

Peak	RT	Area	Height	Width	Skew	Conc.
14	25.17	2.28e2	3.21e2	0.82	NO	1.121
15	25.17	2.28e2	3.21e2	0.76	NO	0.9207
16	25.28	2.92e3	1.83e3	0.71	NO	11.847
17	25.33	1.48e4	1.86e4	0.75	NO	60.057
18	25.41	8.74e2	1.27e3	0.88	NO	4.1081
19	25.41	2.80e3	3.80e3	0.74	NO	1.2649
20	25.71	3.67e2	8.85e2	0.71	NO	1.8473
21	27.04	4.28e2	3.85e2	1.20	YES	1.2488
22	28.34	1.26e3	1.76e3	0.71	NO	5.7671





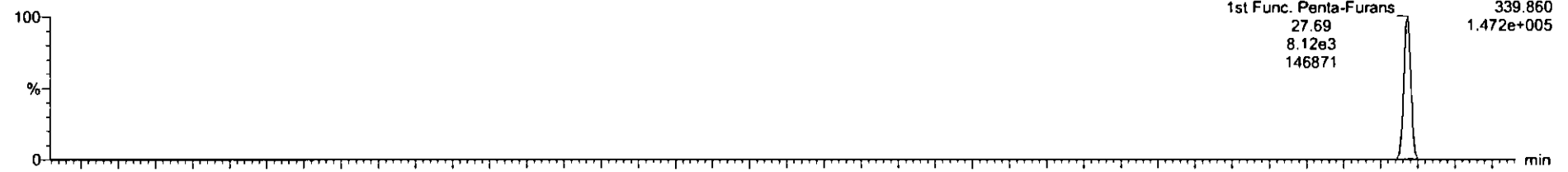
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Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

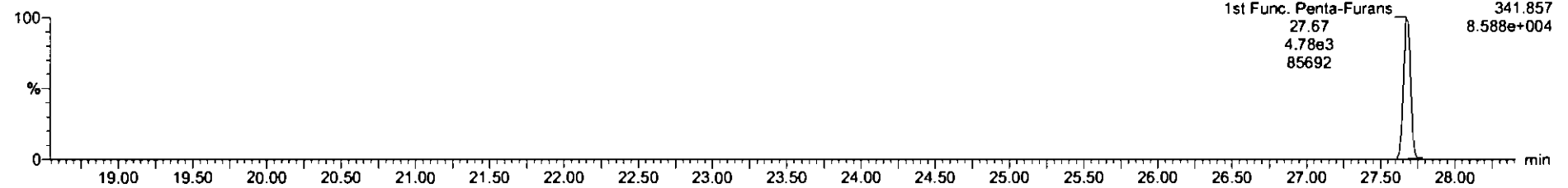
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1st Func. Penta-Furans

210514D3\_7

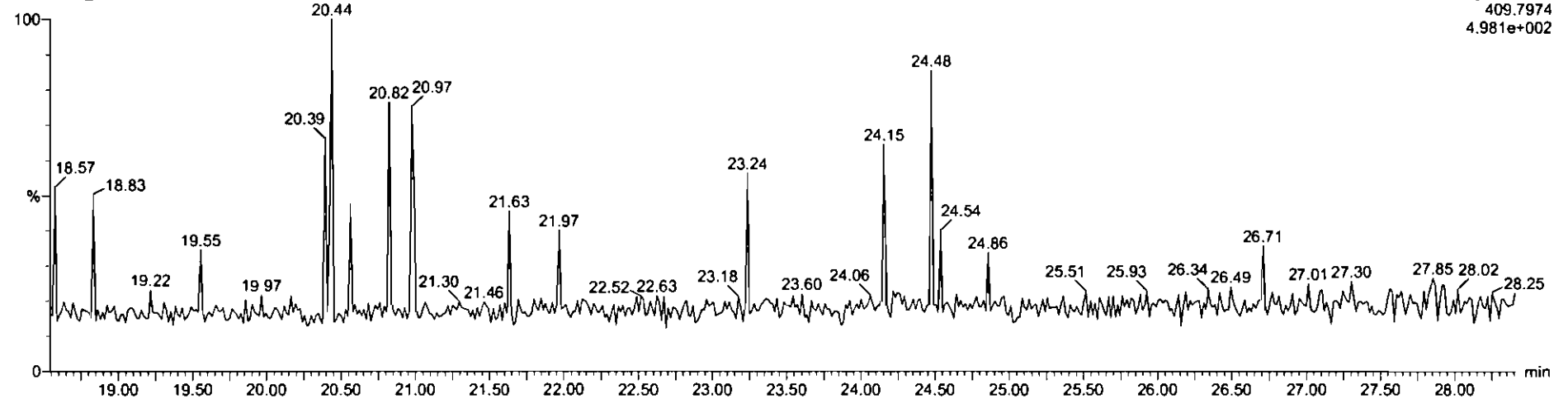


210514D3\_7



DPE6

210514D3\_7

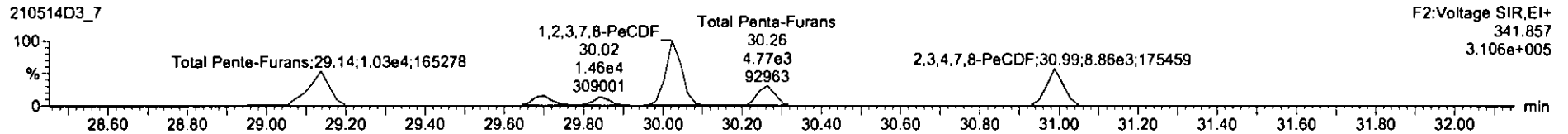
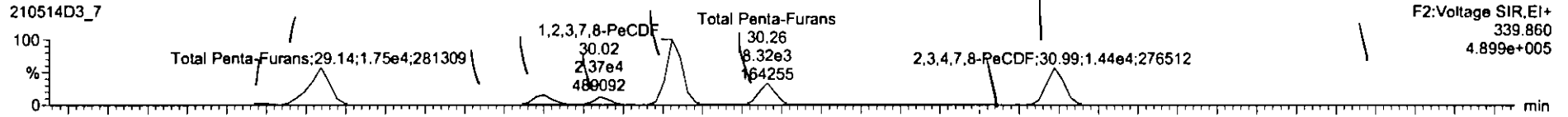


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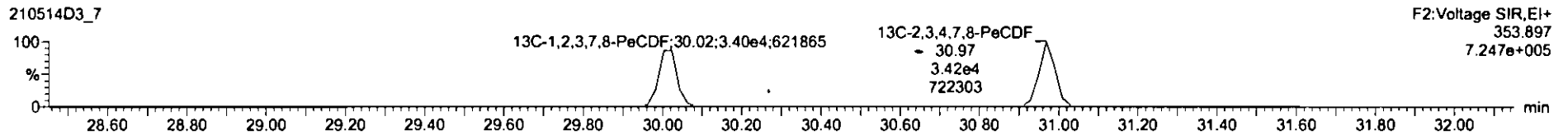
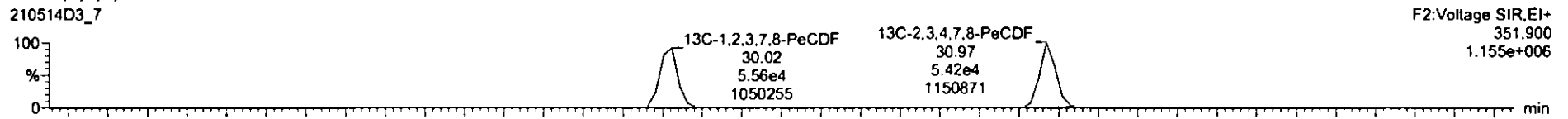
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Name: 210514D3\_7, Date: 14-May-2021, Time: 20:31:00, ID: 2104304-03 USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427

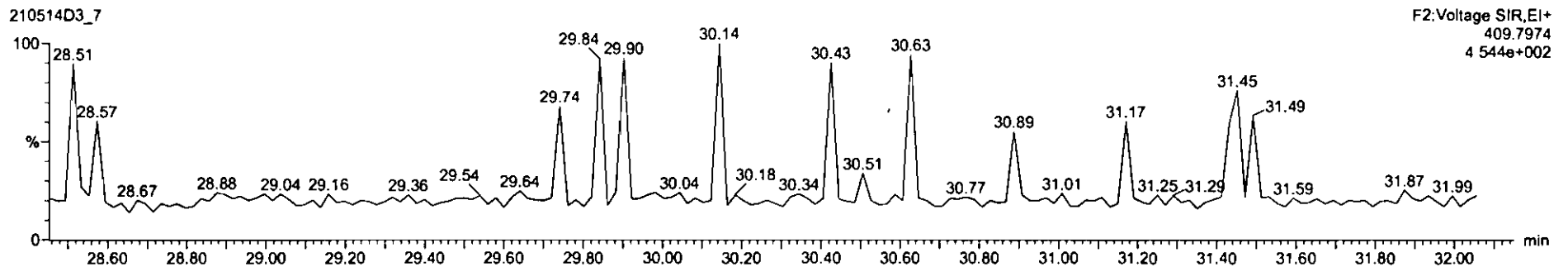
1,2,3,7,8-PeCDF



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

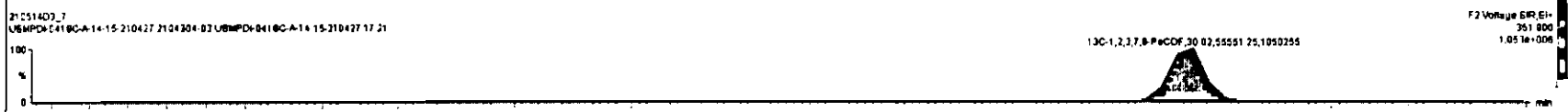
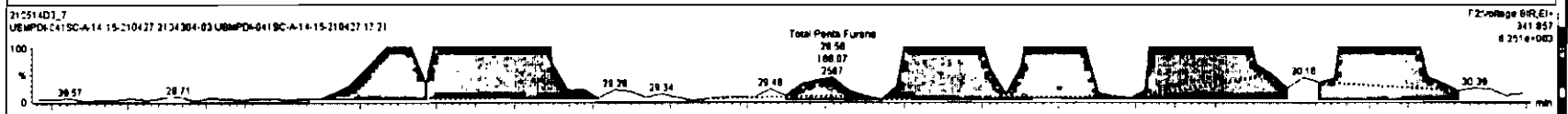
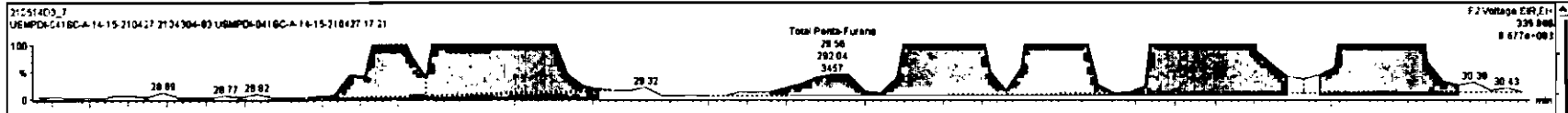


DPE2



Name	Range	RA	nd	RP	wVal	RT	RRT	Conc	S/nc	DL	EMPC
Total Penta-Furans				1.07	10.000			1480		8.64	1480
Total Hexa-Furans				0.86	10.000			250		0.187	253
Total Hepta-Furans				0.96	10.000			30.9		0.0627	30.9
Total Octa-Furans				0.88	10.000			275		0.981	275
Total Nona-Furans				1.12	10.000			471		1.05	473
Total Deca-Furans				1.18	10.000			714		2.95	714

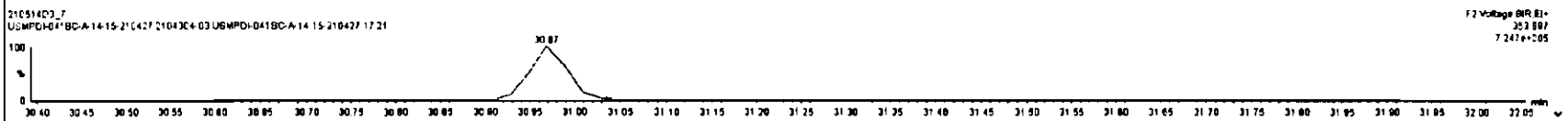
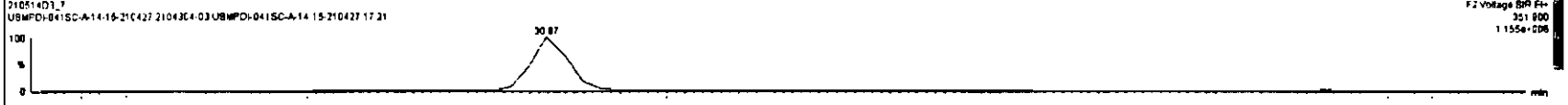
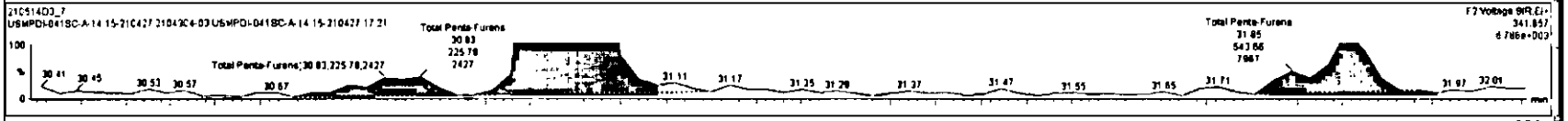
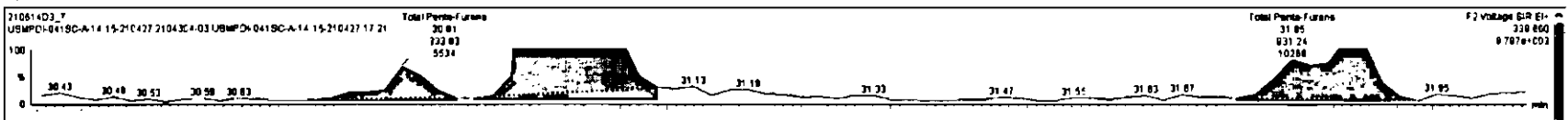
Name	RT	Int Resp	Int Resp	RA	nd	EMPC	Conc
Total Penta-Furans	28.88	8.803e2	5.079e2	1.73	NO	3.2802	3.2802
Total Penta-Furans	29.14	1.762e4	1.023e4	1.71	NO	65.808	65.808
Total Penta-Furans	29.88	2.820e2	1.861e2	1.78	NO	1.6758	1.0798
Total Penta-Furans	29.70	4.324e3	2.704e3	1.80	NO	16.500	16.500
Total Penta-Furans	29.84	2.898e3	1.814e3	1.81	NO	11.300	11.300
1,2,3,7,8-PeCDF	30.02	2.372e4	1.487e4	1.80	NO	80.083	80.083
Total Penta-Furans	30.28	6.280e3	5.024e3	1.85	NO	31.285	31.285
Total Penta-Furans	30.81	3.338e2	2.268e2	1.88	NO	1.3138	1.3138
2,3,4,7,8-PeCDF	30.80	1.687e4	8.844e3	1.88	NO	80.754	80.754



21051403\_7\_21051403\_03 USMPD-D41SC-A-14-15-210427 17 21 - USMPD-D41SC-A-14-15-210427

#	Name	Peak	RA	nLy	RFV	wVal	RT	RRT	Conc	%Rec	CL	ENPC
42	Total Penta-Chlorine				1.07	10.083			1480	8.84	1480	
43	Total Penta-Furane				0.88	10.083			290	0.187	253	
44	Total Penta-Furane				0.88	10.083			30.3	0.0237	30.3	
45	Total Penta-Furane				0.88	10.083			275	0.181	275	
46	Total Penta-Furane				1.12	10.083			471	1.05	471	
47	Total Penta-Furane				1.18	10.083			714	2.80	714	
48	PF11											
49	PF12											

#	Name	RT	wt Resp	id2 Resp	RA	nLy	ENPC	Conc
2	Total Penta-Furane	29.14	1.782e4	1.803e4	1.71	NO	85.006	85.006
3	Total Penta-Furane	29.58	2.828e2	1.881e2	1.78	NO	1.0758	1.0758
4	Total Penta-Furane	28.70	4.324e3	2.704e3	1.80	NO	18.500	18.500
5	Total Penta-Furane	28.81	2.889e3	1.814e3	1.81	NO	11.300	11.300
6	1,2,3,7,8-PeCDF	30.02	2.372e4	1.467e4	1.60	NO	80.085	80.085
7	Total Penta-Furane	30.20	8.280e3	8.834e3	1.68	NO	31.285	31.285
8	Total Penta-Furane	30.81	3.338e2	2.258e2	1.48	NO	1.3139	1.3139
9	2,3,4,7,8-PeCDF	30.86	1.487e4	8.844e3	1.68	NO	30.754	30.754
10	Total Penta-Furane	31.85	8.313e2	5.437e2	1.71	NO	3.4830	3.4830

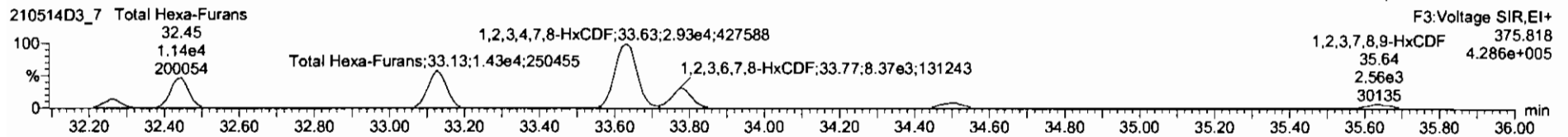
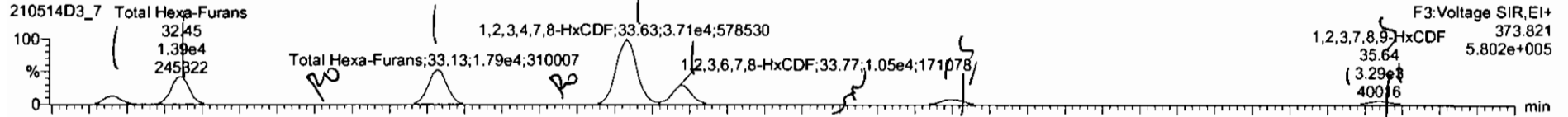


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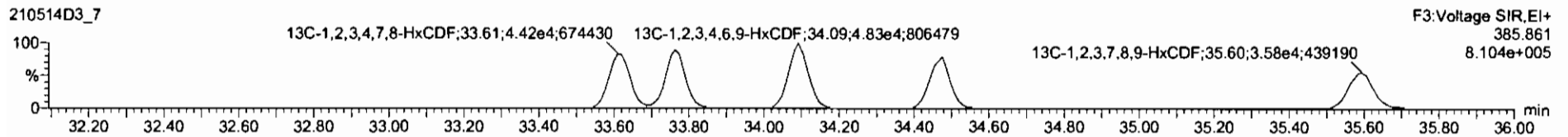
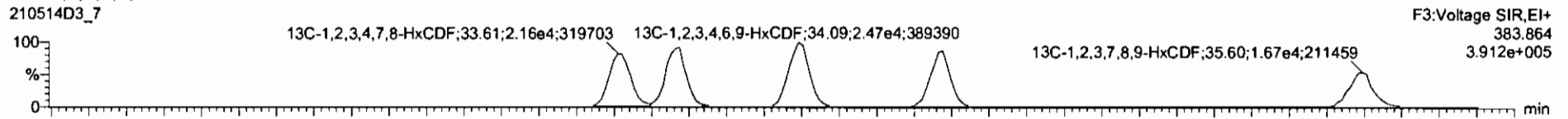
Last Altered: Saturday, May 15, 2021 08:34:47 Pacific Daylight Time  
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Name: 210514D3\_7, Date: 14-May-2021, Time: 20:31:00, ID: 2104304-03 USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427

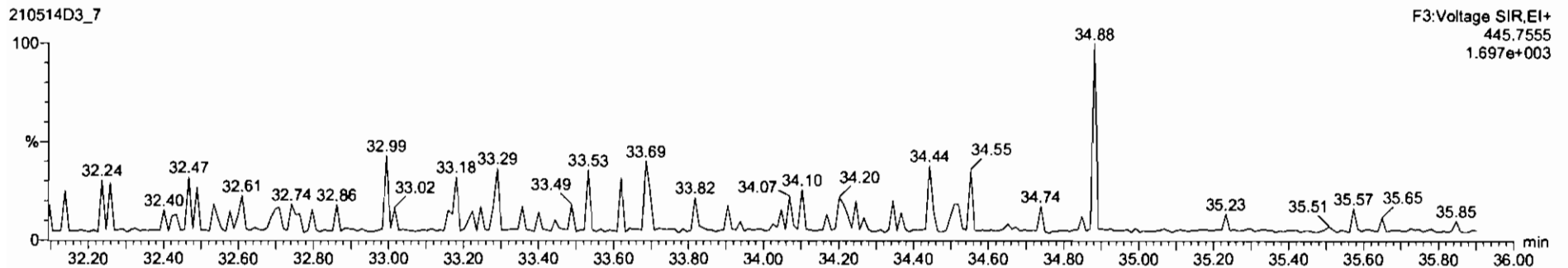
**1,2,3,4,7,8-HxCDF**



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

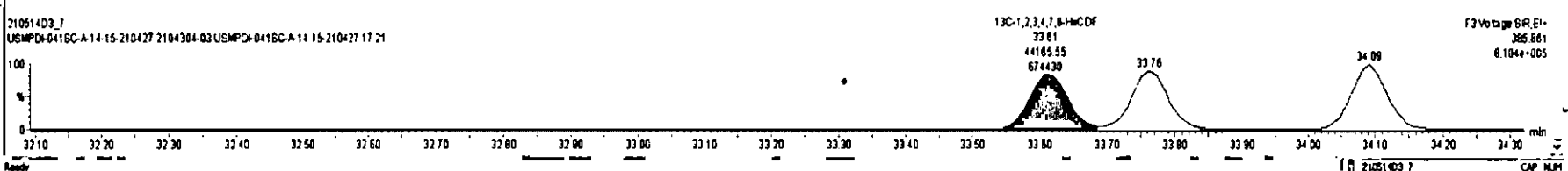
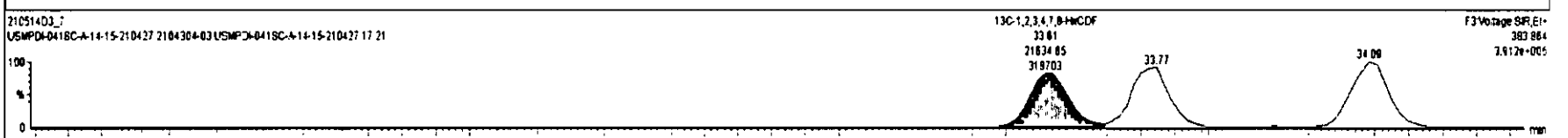
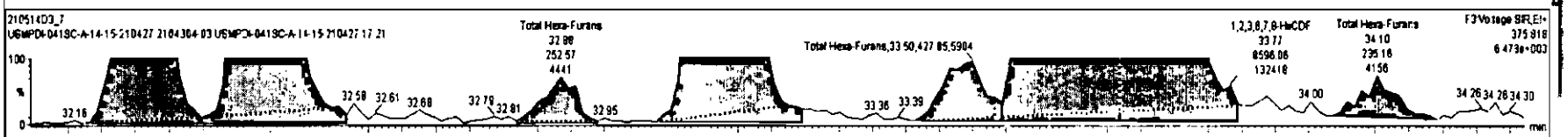
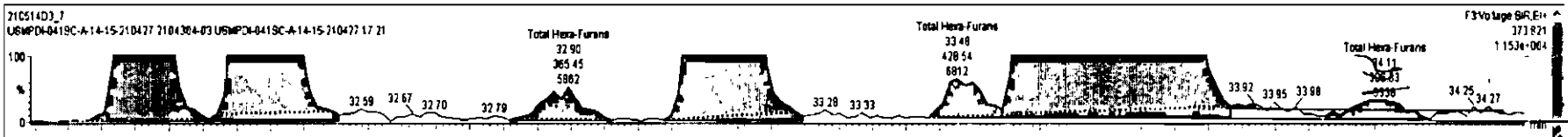


**DPE3**



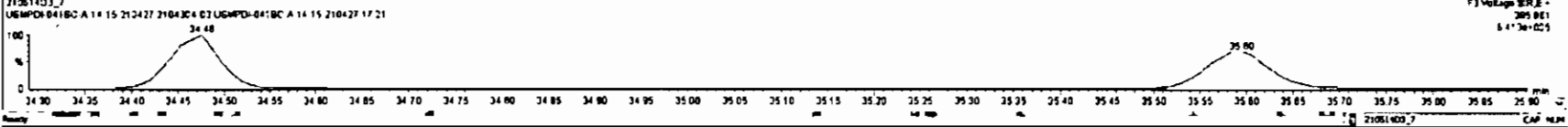
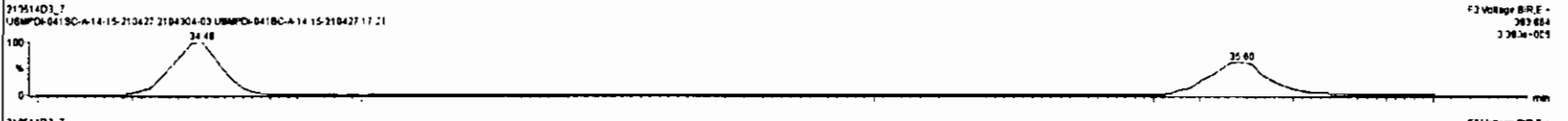
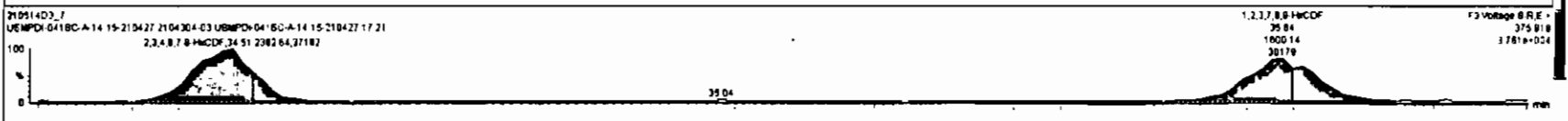
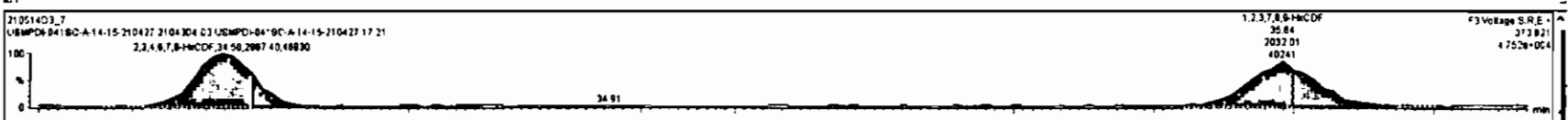
Name	Resp	RA	inY	RFW	width	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hexa-Dioxine			1.07	10.003		1480		6.64	1480		
43 Total Tetra-Furane			0.85	10.003		250		0.187	253		
44 1st Func. Perda-Furane			0.95	10.003		30.3		0.0837	30.3		
45 Total Perda-Furane			0.95	10.003		275		0.951	275		
46 Total Hexa-Furane			1.12	10.003		474		1.05	478		
47 Total Hepta-Furane			1.16	10.003		714		2.85	714		
48 PPK1											
49 PPK2											

Name	RT (s)	in1 Resp	in2 Resp	RA	inY	EMPC	Conc
4 Total Hexa-Furane	33.13	1.803e4	1.445e4	1.25	NO	93.508	93.508
5 Total Hexa-Furane	33.48	4.285e2	4.279e2	1.00	YES	2.2287	0.00000
6 1,2,3,4,7,8-HxCDF	33.63	3.728e4	2.945e4	1.27	NO	192.68	192.68
7 1,2,3,6,7,8-HxCDF	33.77	1.083e4	8.595e3	1.26	NO	53.182	53.182
8 Total Hexa-Furane	34.11	3.083e2	2.35e2	1.30	NO	1.5590	1.5590
9 2,3,4,6,7,8-HxCDF	34.50	2.957e3	2.383e3	1.25	NO	15.621	15.621
10 Total Hexa-Furane	34.53	5.348e2	4.253e2	1.26	NO	2.7636	2.7636
11 1,2,3,7,8-HxCDF	35.64	2.032e3	1.800e3	1.27	NO	12.464	12.464
12 Total Hexa-Furane	35.95	1.291e3	9.736e2	1.33	NO	6.5200	6.5200



Name	Resp	RA	rt	RW	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxins			1.07	10.003				1480	6.84	1480	
43 Total Tetra-Furans			0.86	10.003				250	0.187	253	
44 Tot Furoic Perte Furans			0.86	10.003				30.3	0.0037	30.3	
45 Total Penta-Furans			0.95	10.003				275	0.861	275	
46 Total Hexa-Furans			1.12	10.003				474	1.88	476	
47 Total Hepta-Furans			1.16	10.003				714	2.88	714	
48 PFK3											
49 PFK2											

Name	RT	ref Resp	ref Reten	RA	rt	EMPC	Conc
4 Total Hexa-Furans	33.13	1.803e4	1.445e4	1.26	NO	83.538	91.908
5 Total Hexa-Furans	33.48	4.285e2	4.274e2	1.00	YES	2.2287	0.00003
6 1,2,3,4,7 β-HxCDF	33.63	3.725e4	2.845e4	1.27	NO	192.88	192.88
7 1,2,3,6,7 β-HxCDF	33.77	1.083e4	8.588e3	1.26	NO	53.182	63.182
8 Total Hexa-Furans	34.11	3.083e2	2.363e2	1.30	NO	1.5980	1.5980
9 2,3,4,6,7 β-HxCDF	34.50	2.967e3	2.383e3	1.25	NO	15.821	15.821
10 Total Hexa-Furans	34.62	6.348e2	4.263e2	1.28	NO	2.7826	2.7826
11 1,2,3,7 β-HxCDF	35.64	2.853e3	1.888e3	1.27	NO	12.464	12.464
12 Total Hexa-Furans	35.85	1.291e3	9.736e2	1.33	NO	6.5330	6.5330

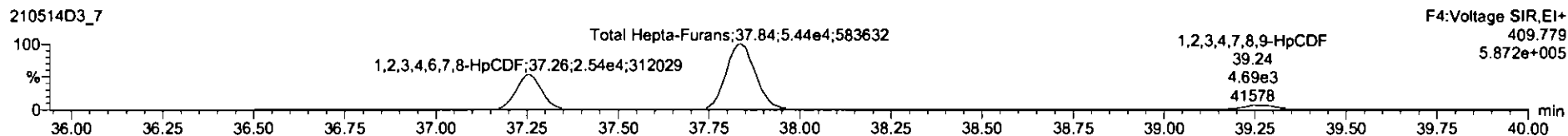
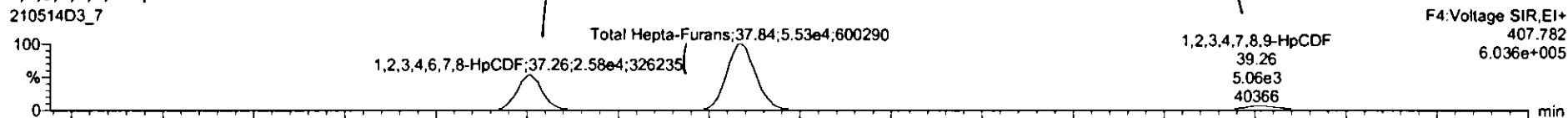


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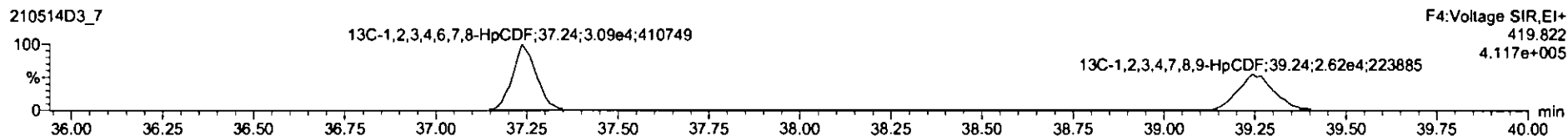
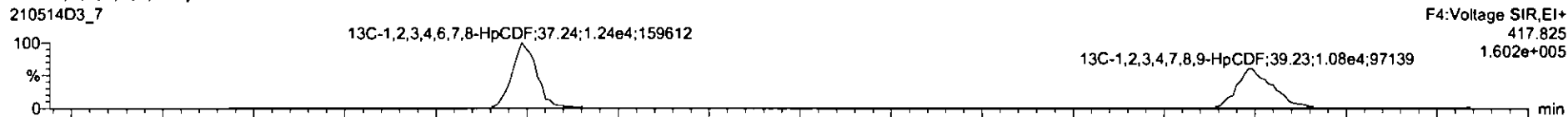
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Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

Name: 210514D3\_7, Date: 14-May-2021, Time: 20:31:00, ID: 2104304-03 USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427

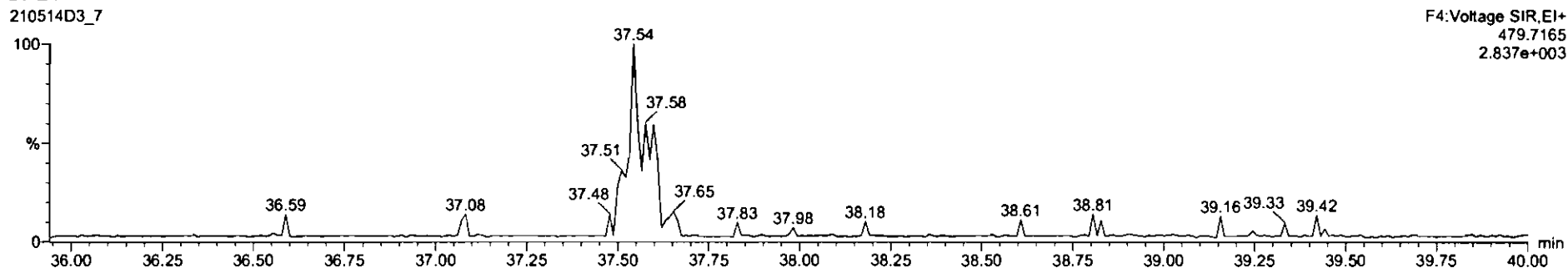
1,2,3,4,6,7,8-HpCDF



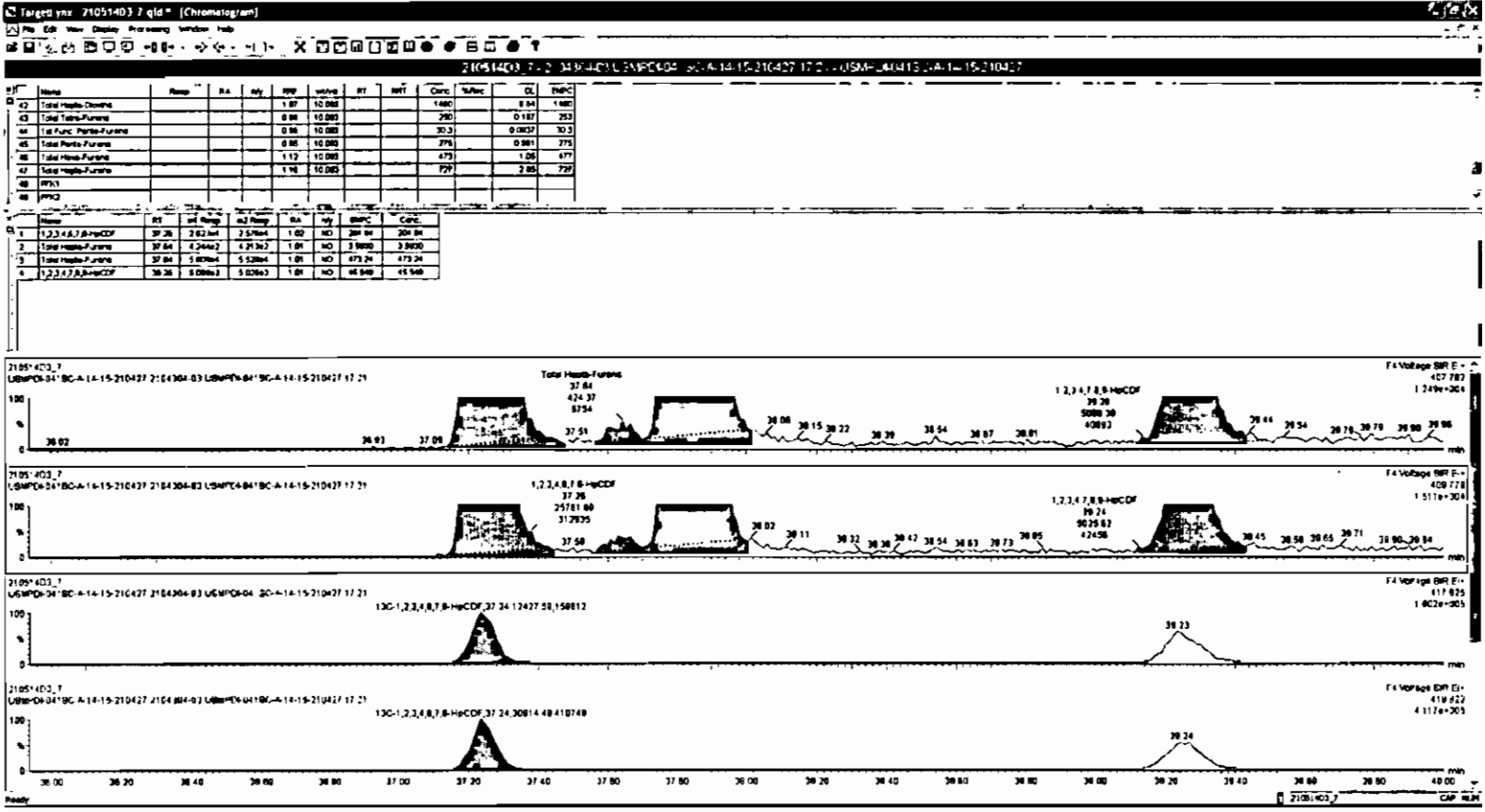
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DPE4



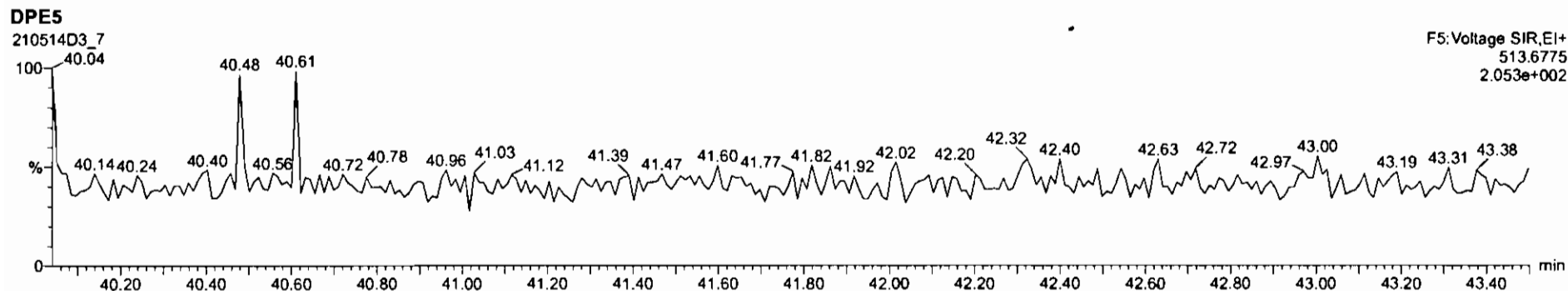
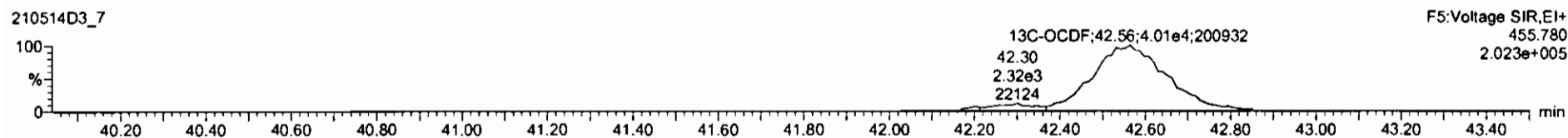
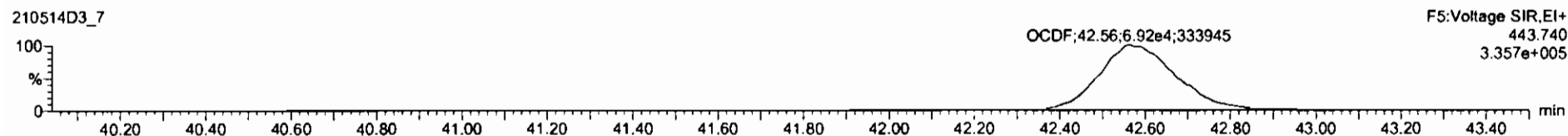




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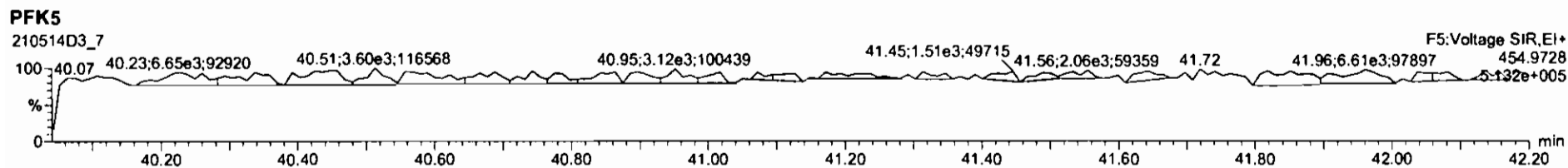
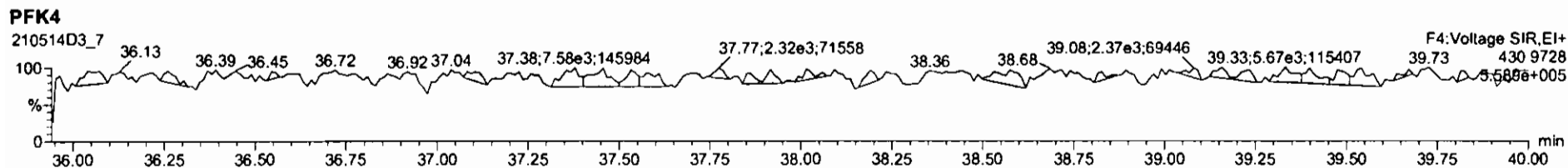
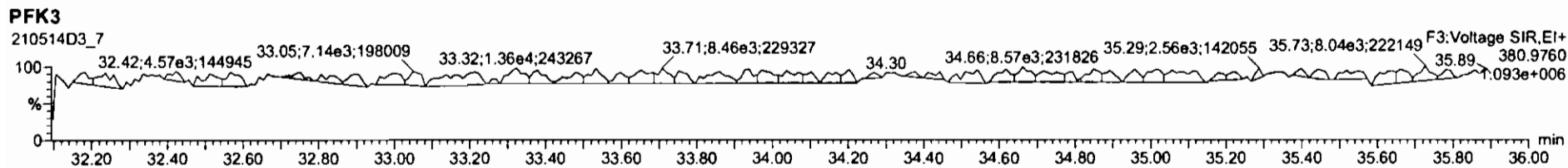
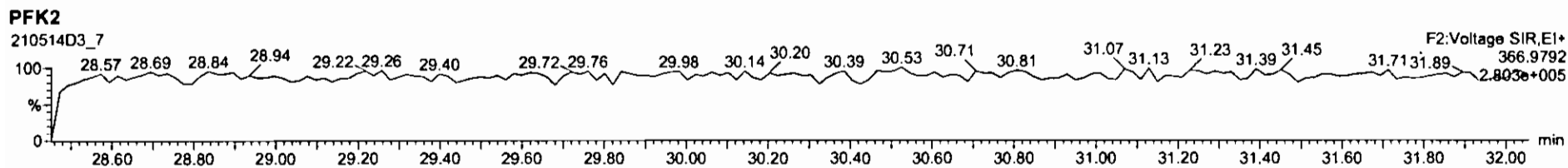
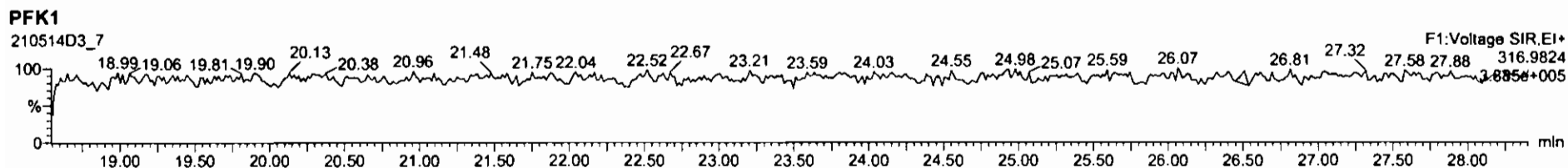
Name: 210514D3\_7, Date: 14-May-2021, Time: 20:31:00, ID: 2104304-03 USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427



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Last Altered: Saturday, May 15, 2021 08:34:47 Pacific Daylight Time  
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Name: 210514D3\_7, Date: 14-May-2021, Time: 20:31:00, ID: 2104304-03 USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427



Dataset: U:\VG7.PRO\Results\210517D2\210517D2-12.qld

Last Altered: Tuesday, May 25, 2021 12:36:42 Pacific Daylight Time  
Printed: Tuesday, June 01, 2021 14:00:08 Pacific Daylight Time

*16 6-1-2021* *C100/02/2021*

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07  
Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210517D2\_12, Date: 17-May-2021, Time: 22:21:52, ID: 2104304-03@5X USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427,  
Task: ST210517D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	OCDD	4.16e5	0.90	NO	1.00	10.093	41.87	1.000	12209		12.1	12200
2	13C-OCDD	1.35e4	0.87	NO	0.451	10.093	41.86	1.230	339.37	85.6	2.99	
3	13C-1,2,3,4,6,9-HxCDF	1.74e4	0.50	NO	1.00	10.093	34.03	1.000	198.15	100	3.42	

Dataset: U:\VG7.PRO\Results\210517D2\210517D2-12.qld

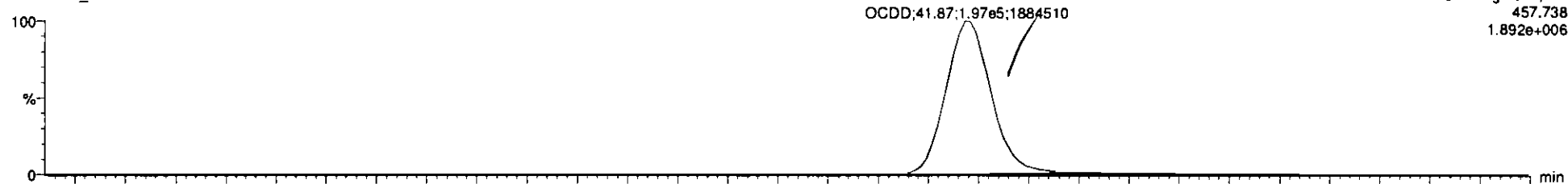
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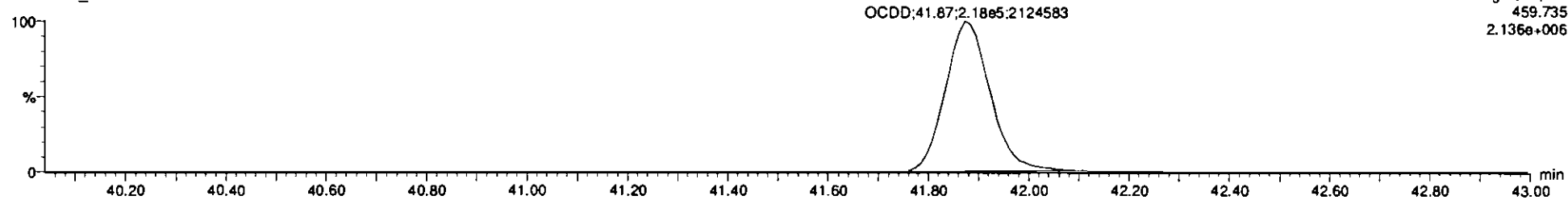
Name: 210517D2\_12, Date: 17-May-2021, Time: 22:21:52, ID: 2104304-03@5X USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427

OCDD

210517D2\_12

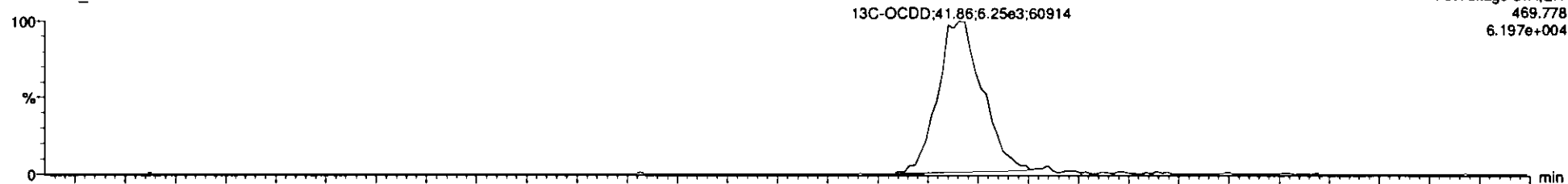


210517D2\_12

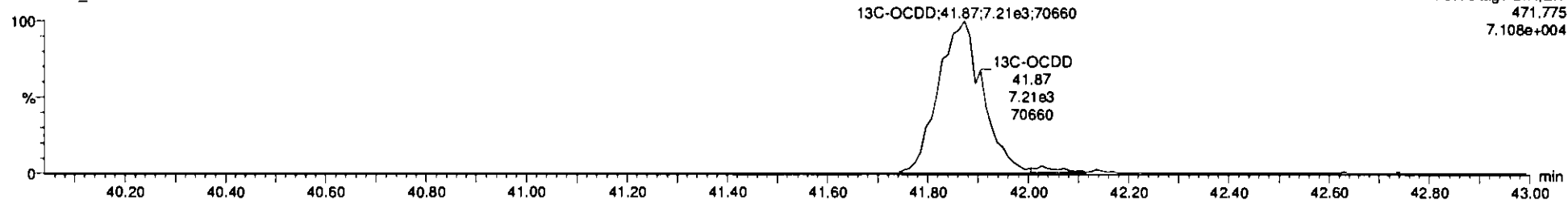


13C-OCDD

210517D2\_12



210517D2\_12

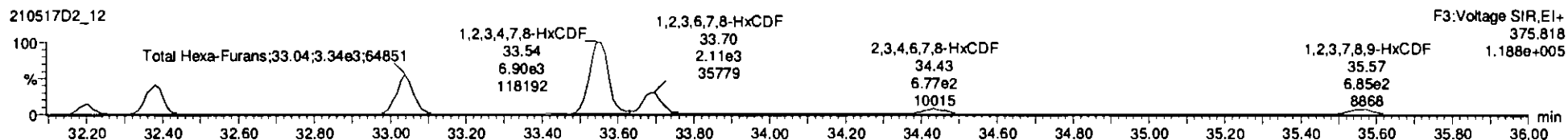
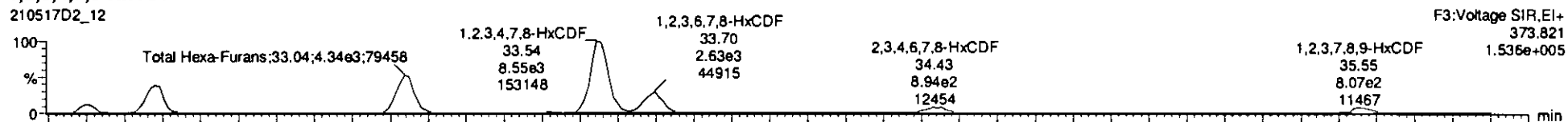


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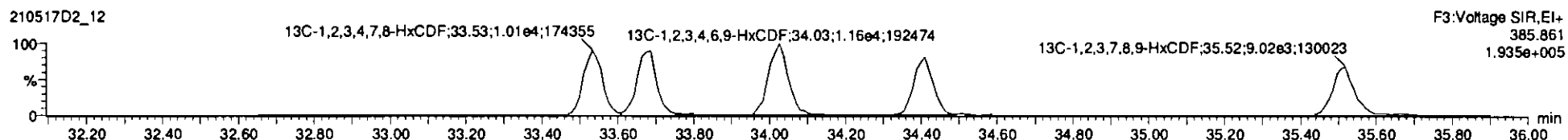
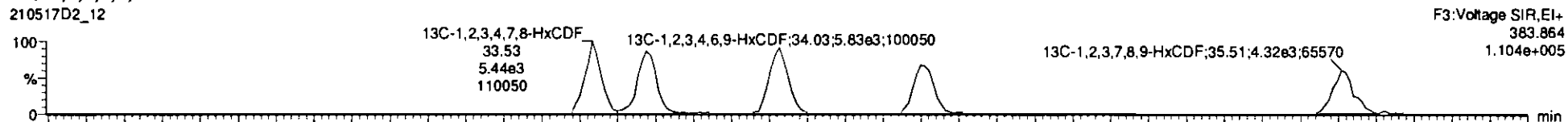
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Name: 210517D2\_12, Date: 17-May-2021, Time: 22:21:52, ID: 2104304-03@5X USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427

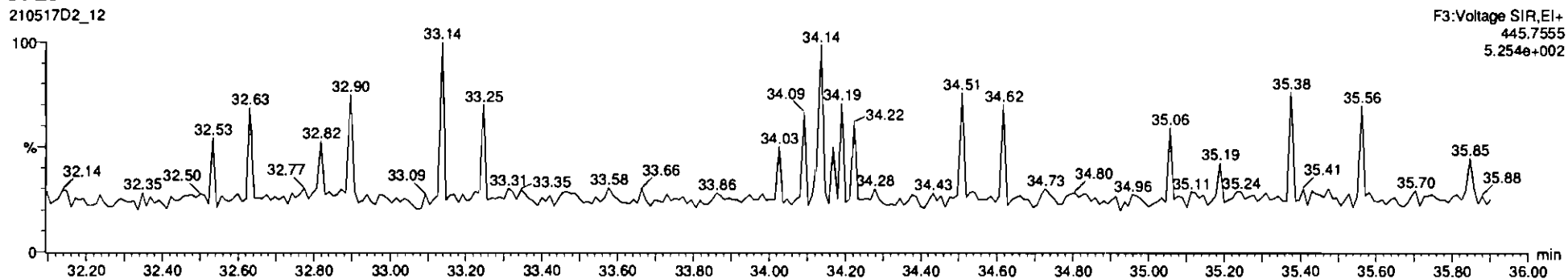
1,2,3,4,7,8-HxCDF



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



DPE3

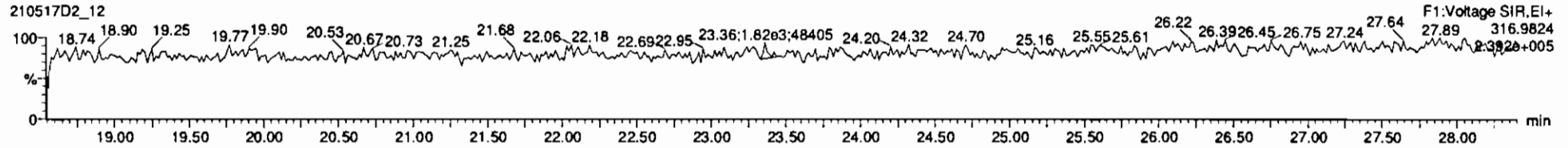


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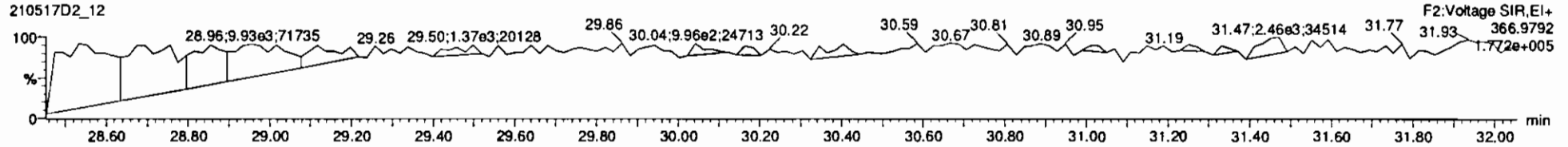
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Name: 210517D2\_12, Date: 17-May-2021, Time: 22:21:52, ID: 2104304-03@5X USMPDI-041SC-A-14-15-210427 17.21, Description: USMPDI-041SC-A-14-15-210427

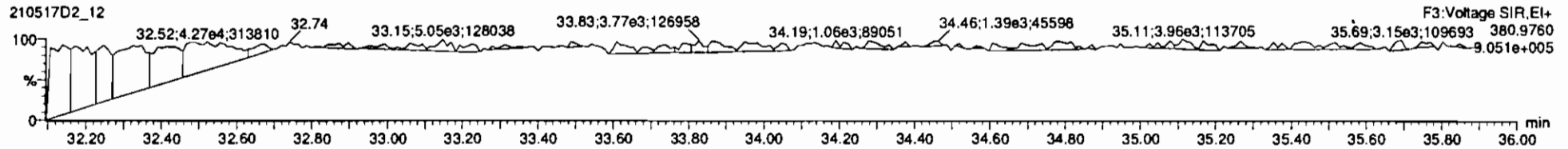
PFK1



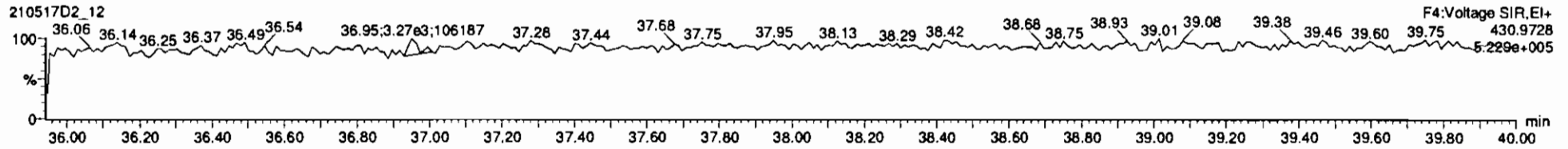
PFK2



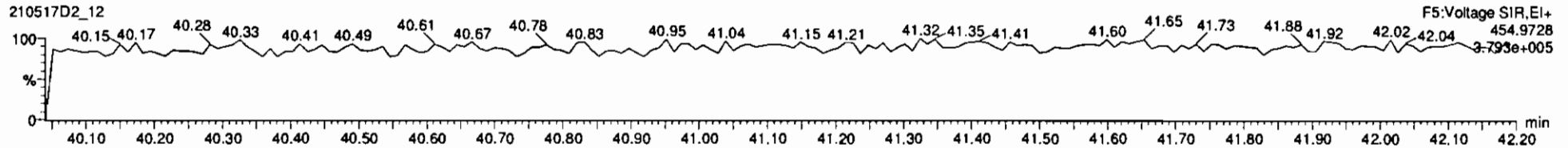
PFK3



PFK4



PFK5



Dataset: U:\VG7.PRO\Results\210514D3\210514D3-8.qld

Last Altered: Tuesday, June 01, 2021 17:25:08 Pacific Daylight Time

Printed: Tuesday, June 01, 2021 17:25:31 Pacific Daylight Time

*HZ 6/1/21*  
*Xcel d.1*

*C1 06/02/2021*

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07  
Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210514D3\_8, Date: 14-May-2021, Time: 21:17:40, ID: 2104304-04 USMPDI-041SC-A-15-15.7-210427 17.66, Description: USMPDI-041SC-A-15-15.7-210427, Task: ST210514D3-1

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.54e2	0.55	YES	1.05	10.183	26.98	1.001	1.7981		0.283	1.47
2 1,2,3,7,8-PeCDD	8.86e2	0.72	NO	0.881	10.183	31.19	1.001	4.3553		0.427	4.36
3 1,2,3,4,7,8-HxCDD	1.46e3	1.23	NO	1.14	10.183	34.64	1.001	8.2437		2.11	8.24
4 1,2,3,6,7,8-HxCDD	6.50e3	1.29	NO	1.01	10.183	34.77	1.001	32.845		1.62	32.8
5 1,2,3,7,8,9-HxCDD	3.17e3	1.24	NO	1.02	10.183	35.05	1.000	15.834		1.75	15.8
6 1,2,3,4,6,7,8-HpCDD	2.11e5	1.03	NO	1.07	10.183	38.37	1.000	1067.7		7.89	1070
7 OCDD	3.73e6	0.91	NO	1.00	10.183	41.87	1.000	23052 E*		4.72	23100
8 2,3,7,8-TCDF	7.93e4	0.75	NO	0.864	10.183	26.42	1.001	179.51		0.203	180
9 1,2,3,7,8-PeCDF	1.12e5	1.63	NO	0.948	10.183	30.02	1.000	299.04		1.18	299
10 2,3,4,7,8-PeCDF	6.87e4	1.66	NO	1.04	10.183	31.01	1.000	151.86		0.971	152
11 1,2,3,4,7,8-HxCDF	1.50e5	1.26	NO	1.04	10.183	33.65	1.001	483.82		2.12	484
12 1,2,3,6,7,8-HxCDF	4.11e4	1.24	NO	1.07	10.183	33.82	1.000	120.27		1.88	120
13 2,3,4,6,7,8-HxCDF	9.97e3	1.27	NO	1.12	10.183	34.52	1.001	30.617		2.11	30.6
14 1,2,3,7,8,9-HxCDF	7.20e3	1.16	NO	1.10	10.183	35.67	1.001	25.347		2.57	25.3
15 1,2,3,4,6,7,8-HpCDF	1.04e5	1.01	NO	1.16	10.183	37.23	1.001	409.21		1.86	409
16 1,2,3,4,7,8,9-HpCDF	2.22e4	0.99	NO	1.19	10.183	39.05	1.001	88.616		1.85	88.6
17 OCDF	2.40e5	0.86	NO	0.909	10.183	42.21	1.000	1211.7		1.55	1210
18 13C-2,3,7,8-TCDD	5.78e4	0.82	NO	1.15	10.183	26.97	1.024	164.65	83.8	0.516	
19 13C-1,2,3,7,8-PeCDD	4.54e4	0.59	NO	0.887	10.183	31.17	1.184	166.80	84.9	0.729	
20 13C-1,2,3,4,7,8-HxCDD	3.03e4	1.21	NO	0.645	10.183	34.62	1.015	123.72	63.0	0.874	
21 13C-1,2,3,6,7,8-HxCDD	3.84e4	1.24	NO	0.717	10.183	34.75	1.019	141.09	71.8	0.787	
22 13C-1,2,3,7,8,9-HxCDD	3.86e4	1.28	NO	0.714	10.183	35.03	1.027	142.07	72.3	0.790	
23 13C-1,2,3,4,6,7,8-HpCDD	3.64e4	1.03	NO	0.583	10.183	38.37	1.125	164.01	83.5	1.31	
24 13C-OCDD	6.35e4	0.90	NO	0.451	10.183	41.86	1.227	369.89	94.2 *	1.49	
25 13C-2,3,7,8-TCDF	1.00e5	0.77	NO	1.09	10.183	26.39	1.002	157.31	80.1	0.566	
26 13C-1,2,3,7,8-PeCDF	7.79e4	1.61	NO	0.805	10.183	30.02	1.140	165.41	84.2	0.839	
27 13C-2,3,4,7,8-PeCDF	8.57e4	1.59	NO	0.792	10.183	31.01	1.178	184.83	94.1	0.853	
28 13C-1,2,3,4,7,8-HxCDF	5.85e4	0.50	NO	0.997	10.183	33.63	0.986	154.40	78.6	0.860	
29 13C-1,2,3,6,7,8-HxCDF	6.25e4	0.51	NO	1.03	10.183	33.81	0.991	159.76	81.3	0.834	
30 13C-2,3,4,6,7,8-HxCDF	5.72e4	0.53	NO	0.940	10.183	34.50	1.011	160.27	81.6	0.913	



Dataset: U:\VG7.PRO\Results\210514D3\210514D3-8.qld

Last Altered: Tuesday, June 01, 2021 17:25:08 Pacific Daylight Time

Printed: Tuesday, June 01, 2021 17:25:31 Pacific Daylight Time

Name: 210514D3\_8, Date: 14-May-2021, Time: 21:17:40, ID: 2104304-04 USMPDI-041SC-A-15-15.7-210427 17.66, Description: USMPDI-041SC-A-15-15.7-210427, Task: ST210514D3-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	5.08e4	0.49	NO	0.852	10.183	35.64	1.045	156.77	79.8	1.01	
32	13C-1,2,3,4,6,7,8-HpCDF	4.29e4	0.42	NO	0.727	10.183	37.20	1.091	155.16	79.0	1.24	
33	13C-1,2,3,4,7,8,9-HpCDF	4.14e4	0.43	NO	0.608	10.183	39.03	1.144	179.30	91.3	1.48	
34	13C-OCDF	8.56e4	0.83	NO	0.631	10.183	42.20	1.237	356.79	90.8	0.754	
35	37Cl-2,3,7,8-TCDD	8.67e4			2.22	10.183	26.98	1.025	127.45	162	0.104	
36	13C-1,2,3,4-TCDD	6.02e4	0.75	NO	1.00	10.183	26.33	1.000	196.40	100	0.591	
37	13C-1,2,3,4-TCDF	1.15e5	0.75	NO	1.00	10.183	25.09	1.000	196.40	100	0.617	
38	13C-1,2,3,4,6,9-HxCDF	7.47e4	0.53	NO	1.00	10.183	34.11	1.000	196.40	100	0.858	
39	Total Tetra-Dioxins				1.05	10.183			18.660		0.283	23.7
40	Total Penta-Dioxins				0.881	10.183			46.307		0.427	49.5
41	Total Hexa-Dioxins				1.01	10.183			320.54		1.89	321
42	Total Hepta-Dioxins				1.07	10.183			2737.5		7.89	2740
43	Total Tetra-Furans				0.864	10.183			558.89		0.203	562
44	1st Func. Penta-Furans				0.948	10.183			65.989		0.142	66.0
45	Total Penta-Furans				0.948	10.183			775.49		1.12	776
46	Total Hexa-Furans				1.12	10.183			1193.8		2.09	1190
47	Total Hepta-Furans				1.16	10.183			1618.8		1.87	1620

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-8.qld

Last Altered: Tuesday, June 01, 2021 17:25:08 Pacific Daylight Time  
Printed: Tuesday, June 01, 2021 17:25:31 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07  
Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210514D3\_8, Date: 14-May-2021, Time: 21:17:40, ID: 2104304-04 USMPDI-041SC-A-15-15.7-210427 17.66, Description: USMPDI-041SC-A-15-15.7-210427, Task: ST210514D3-1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Dioxins	23.86	2.349e4	3.398e4	1.625e3	2.151e3	0.76	NO	3.776e3	12.241	12.241	0.283
2	Total Tetra-Dioxins	24.14	4.938e3	5.860e3	3.064e2	3.681e2	0.83	NO	6.745e2	2.1867	2.1867	0.283
3	Total Tetra-Dioxins	24.57	3.563e3	4.285e3	2.163e2	2.372e2	0.91	YES	0.000e0	0.00000	1.3609	0.283
4	Total Tetra-Dioxins	25.24	1.683e3	2.428e3	1.199e2	1.601e2	0.75	NO	2.800e2	0.90771	0.90771	0.283
5	Total Tetra-Dioxins	25.41	2.249e3	2.503e3	1.357e2	1.757e2	0.77	NO	3.115e2	1.0097	1.0097	0.283
6	Total Tetra-Dioxins	25.61	3.058e3	5.494e3	1.796e2	2.786e2	0.64	YES	0.000e0	0.00000	1.3383	0.283
7	Total Tetra-Dioxins	25.76	8.980e2	1.172e3	5.072e1	6.546e1	0.77	NO	1.162e2	0.37664	0.37664	0.283
8	Total Tetra-Dioxins	26.02	1.592e3	2.237e3	9.183e1	1.150e2	0.80	NO	2.069e2	0.67063	0.67063	0.283
9	Total Tetra-Dioxins	26.08	1.322e3	1.379e3	7.038e1	7.586e1	0.93	YES	0.000e0	0.00000	0.43527	0.283
10	Total Tetra-Dioxins	26.74	3.389e3	3.239e3	1.824e2	2.089e2	0.87	NO	3.913e2	1.2684	1.2684	0.283
11	2,3,7,8-TCDD	26.98	3.564e3	5.671e3	1.976e2	3.564e2	0.55	YES	5.540e2	0.00000	1.4725	0.283
12	Total Tetra-Dioxins	27.26	1.558e3	1.986e3	8.010e1	8.243e1	0.97	YES	0.000e0	0.00000	0.47299	0.283

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Dioxins	29.10	1.520e4	2.882e4	1.195e3	2.031e3	0.59	NO	3.226e3	15.854	15.854	0.427
2	Total Penta-Dioxins	29.54	6.289e3	8.629e3	3.119e2	4.940e2	0.63	NO	8.059e2	3.9601	3.9601	0.427
3	Total Penta-Dioxins	30.00	1.267e4	2.080e4	7.063e2	1.055e3	0.67	NO	1.763e3	8.6640	8.6640	0.427
4	Total Penta-Dioxins	30.18	8.445e3	1.030e4	6.264e2	9.146e2	0.68	NO	1.541e3	7.5725	7.5725	0.427
5	Total Penta-Dioxins	30.47	8.711e3	9.542e3	4.809e2	7.202e2	0.67	NO	1.201e3	5.9016	5.9016	0.427
6	Total Penta-Dioxins	30.75	1.736e3	1.365e3	1.014e2	9.426e1	1.08	YES	0.000e0	0.00000	0.75493	0.427
7	1,2,3,7,8-PeCDD	31.19	5.862e3	9.043e3	3.699e2	5.165e2	0.72	NO	8.864e2	4.3553	4.3553	0.427
8	Total Penta-Dioxins	31.25	2.414e3	2.452e3	1.336e2	1.295e2	1.03	YES	0.000e0	0.00000	1.0371	0.427
9	Total Penta-Dioxins	31.49	2.412e3	2.819e3	1.369e2	1.756e2	0.78	YES	0.000e0	0.00000	1.4065	0.427

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-8.qld

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Name: 210514D3\_8, Date: 14-May-2021, Time: 21:17:40, ID: 2104304-04 USMPDI-041SC-A-15-15.7-210427 17.66, Description: USMPDI-041SC-A-15-15.7-210427, Task: ST210514D3-1

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Dioxins	32.23	9.850e2	1.290e4	4.702e1	7.202e2	0.07	YES	0.000e0	0.00000	0.46129	1.89
2	Total Hexa-Dioxins	32.84	1.976e5	1.453e5	1.351e4	1.038e4	1.30	NO	2.389e4	129.73	129.73	1.89
3	Total Hexa-Dioxins	33.49	2.273e4	1.793e4	1.477e3	1.112e3	1.33	NO	2.589e3	14.060	14.060	1.89
4	Total Hexa-Dioxins	33.83	1.336e5	1.041e5	1.212e4	9.201e3	1.32	NO	2.132e4	115.78	115.78	1.89
5	1,2,3,4,7,8-HxCDD	34.64	9.328e3	1.219e4	8.028e2	6.529e2	1.23	NO	1.456e3	8.2437	8.2437	2.11
6	1,2,3,6,7,8-HxCDD	34.77	5.235e4	4.022e4	3.663e3	2.832e3	1.29	NO	6.496e3	32.845	32.845	1.62
7	Total Hexa-Dioxins	34.94	5.890e3	3.658e3	4.354e2	3.101e2	1.40	NO	7.456e2	4.0492	4.0492	1.89
8	1,2,3,7,8,9-HxCDD	35.05	2.184e4	1.986e4	1.756e3	1.413e3	1.24	NO	3.169e3	15.834	15.834	1.75

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hepta-Dioxins	37.48	2.911e6	2.781e6	1.677e5	1.615e5	1.04	NO	3.292e5	1669.8	1669.8	7.89
2	1,2,3,4,6,7,8-HpCDD	38.37	1.343e6	1.265e6	1.067e5	1.039e5	1.03	NO	2.105e5	1067.7	1067.7	7.89

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-8.qld

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Name: 210514D3\_8, Date: 14-May-2021, Time: 21:17:40, ID: 2104304-04 USMPDI-041SC-A-15-15.7-210427 17.66, Description: USMPDI-041SC-A-15-15.7-210427, Task: ST210514D3-1

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Furans	22.00	4.172e3	4.935e3	3.101e2	4.210e2	0.74	NO	7.311e2	1.6555	1.6555	0.203
2	Total Tetra-Furans	22.53	8.759e3	1.221e4	7.098e2	1.011e3	0.70	NO	1.720e3	3.8959	3.8959	0.203
3	Total Tetra-Furans	23.18	3.933e4	5.054e4	3.032e3	3.950e3	0.77	NO	6.982e3	15.811	15.811	0.203
4	Total Tetra-Furans	23.56	2.505e4	2.918e4	2.640e3	3.675e3	0.72	NO	6.315e3	14.301	14.301	0.203
5	Total Tetra-Furans	23.90	1.205e5	1.693e5	9.039e3	1.292e4	0.70	NO	2.196e4	49.726	49.726	0.203
6	Total Tetra-Furans	24.28	5.427e4	7.243e4	3.969e3	5.190e3	0.76	NO	9.159e3	20.740	20.740	0.203
7	Total Tetra-Furans	24.38	7.649e3	1.123e4	4.547e2	6.082e2	0.75	NO	1.063e3	2.4071	2.4071	0.203
8	Total Tetra-Furans	24.55	2.723e4	3.510e4	1.828e3	2.342e3	0.78	NO	4.170e3	9.4433	9.4433	0.203
9	Total Tetra-Furans	24.89	4.771e3	7.555e3	3.428e2	5.061e2	0.68	NO	8.489e2	1.9223	1.9223	0.203
10	Total Tetra-Furans	24.98	6.327e3	7.251e3	3.313e2	4.331e2	0.76	NO	7.643e2	1.7308	1.7308	0.203
11	Total Tetra-Furans	25.18	5.948e4	7.831e4	5.482e3	7.192e3	0.76	NO	1.267e4	28.700	28.700	0.203
12	Total Tetra-Furans	25.56	5.596e5	7.570e5	3.277e4	4.463e4	0.73	NO	7.741e4	175.29	175.29	0.203
13	Total Tetra-Furans	25.84	2.270e4	2.805e4	1.232e3	1.697e3	0.73	NO	2.929e3	6.6334	6.6334	0.203
14	Total Tetra-Furans	26.16	8.066e3	9.768e3	4.105e2	6.022e2	0.68	NO	1.013e3	2.2934	2.2934	0.203
15	Total Tetra-Furans	26.30	5.724e4	8.248e4	3.111e3	4.551e3	0.68	NO	7.661e3	17.349	17.349	0.203
16	2,3,7,8-TCDF	26.42	5.651e5	7.565e5	3.388e4	4.540e4	0.75	NO	7.927e4	179.51	179.51	0.203
17	Total Tetra-Furans	26.66	2.802e4	3.511e4	1.809e3	2.402e3	0.75	NO	4.211e3	9.5356	9.5356	0.203
18	Total Tetra-Furans	26.91	7.461e3	8.746e3	4.183e2	4.784e2	0.87	NO	8.967e2	2.0306	2.0306	0.203
19	Total Tetra-Furans	27.38	3.204e3	4.575e3	1.747e2	2.396e2	0.73	NO	4.142e2	0.93803	0.93803	0.203
20	Total Tetra-Furans	27.47	7.988e3	3.262e3	4.452e2	2.772e2	1.61	YES	0.000e0	0.00000	1.1112	0.203
21	Total Tetra-Furans	27.70	9.303e3	1.243e4	5.595e2	7.413e2	0.75	NO	1.301e3	2.9456	2.9456	0.203
22	Total Tetra-Furans	27.87	1.502e4	1.436e4	7.963e2	5.850e2	1.36	YES	0.000e0	0.00000	2.3448	0.203
23	Total Tetra-Furans	28.05	4.322e4	5.479e4	2.360e3	2.954e3	0.80	NO	5.314e3	12.033	12.033	0.203

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	1st Func. Penta-Furans	27.69	3.069e5	1.974e5	1.608e4	9.977e3	1.61	NO	2.606e4	65.989	65.989	0.142

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**Penta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Penta-Furans	28.67	1.459e3	1.051e3	6.723e1	5.990e1	1.12	YES	0.000e0	0.00000	0.28008	1.12
Total Penta-Furans	28.98	2.319e4	1.264e4	1.618e3	9.352e2	1.73	NO	2.553e3	6.4646	6.4646	1.12
Total Penta-Furans	29.14	7.206e5	4.200e5	4.015e4	2.417e4	1.66	NO	6.432e4	162.88	162.88	1.12
Total Penta-Furans	29.56	4.032e3	2.545e3	2.787e2	1.963e2	1.42	NO	4.750e2	1.2028	1.2028	1.12
Total Penta-Furans	29.68	4.934e4	3.265e4	3.562e3	2.188e3	1.63	NO	5.751e3	14.562	14.562	1.12
Total Penta-Furans	29.84	1.549e5	9.997e4	7.539e3	4.717e3	1.60	NO	1.226e4	31.036	31.036	1.12
1,2,3,7,8-PeCDF	30.02	1.386e6	8.738e5	6.976e4	4.273e4	1.63	NO	1.125e5	299.04	299.04	1.18
Total Penta-Furans	30.26	4.299e5	2.728e5	2.323e4	1.450e4	1.60	NO	3.774e4	95.557	95.557	1.12
Total Penta-Furans	30.85	1.079e4	7.013e3	8.159e2	4.875e2	1.67	NO	1.303e3	3.3007	3.3007	1.12
2,3,4,7,8-PeCDF	31.01	7.876e5	4.826e5	4.290e4	2.583e4	1.66	NO	6.872e4	151.86	151.86	0.971
Total Penta-Furans	31.85	3.294e4	2.191e4	2.361e3	1.427e3	1.65	NO	3.788e3	9.5916	9.5916	1.12

**Hexa-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hexa-Furans	32.26	1.557e5	1.131e5	8.162e3	6.673e3	1.22	NO	1.483e4	45.551	45.551	2.09
Total Hexa-Furans	32.45	5.136e5	4.277e5	2.992e4	2.434e4	1.23	NO	5.425e4	166.58	166.58	2.09
Total Hexa-Furans	32.92	8.568e3	8.288e3	6.334e2	4.822e2	1.31	NO	1.116e3	3.4255	3.4255	2.09
Total Hexa-Furans	33.15	8.585e5	6.916e5	4.744e4	3.829e4	1.24	NO	8.574e4	263.25	263.25	2.09
Total Hexa-Furans	33.51	2.011e4	1.382e4	1.015e3	8.185e2	1.24	NO	1.834e3	5.6304	5.6304	2.09
1,2,3,4,7,8-HxCDF	33.65	1.098e6	8.647e5	8.388e4	6.651e4	1.26	NO	1.504e5	483.82	483.82	2.12
1,2,3,6,7,8-HxCDF	33.82	3.044e5	2.461e5	2.276e4	1.832e4	1.24	NO	4.109e4	120.27	120.27	1.88
Total Hexa-Furans	34.13	1.112e4	8.528e3	7.014e2	5.733e2	1.22	NO	1.275e3	3.9139	3.9139	2.09
Total Hexa-Furans	34.27	6.429e3	5.762e3	3.748e2	2.852e2	1.31	NO	6.600e2	2.0265	2.0265	2.09
2,3,4,6,7,8-HxCDF	34.52	8.550e4	6.205e4	5.586e3	4.384e3	1.27	NO	9.970e3	30.617	30.617	2.11
Total Hexa-Furans	34.55	6.250e4	5.213e4	1.843e3	1.555e3	1.18	NO	3.398e3	10.433	10.433	2.09
1,2,3,7,8,9-HxCDF	35.67	1.109e5	8.523e4	3.872e3	3.329e3	1.16	NO	7.202e3	25.347	25.347	2.57
Total Hexa-Furans	35.68	1.155e5	9.416e4	6.011e3	4.707e3	1.28	NO	1.072e4	32.910	32.910	2.09

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 Task: ST210514D3-1

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1,2,3,4,6,7,8-HpCDF	37.23	6.999e5	6.921e5	5.209e4	5.152e4	1.01	NO	1.036e5	409.21	409.21	1.86
Total Hepta-Furans	37.52	2.045e4	1.833e4	1.458e3	1.320e3	1.10	NO	2.778e3	11.158	11.158	1.87
Total Hepta-Furans	37.71	2.220e6	2.181e6	1.388e5	1.375e5	1.01	NO	2.763e5	1109.8	1109.8	1.87
1,2,3,4,7,8,9-HpCDF	39.05	1.427e5	1.535e5	1.105e4	1.114e4	0.99	NO	2.219e4	88.616	88.616	1.85

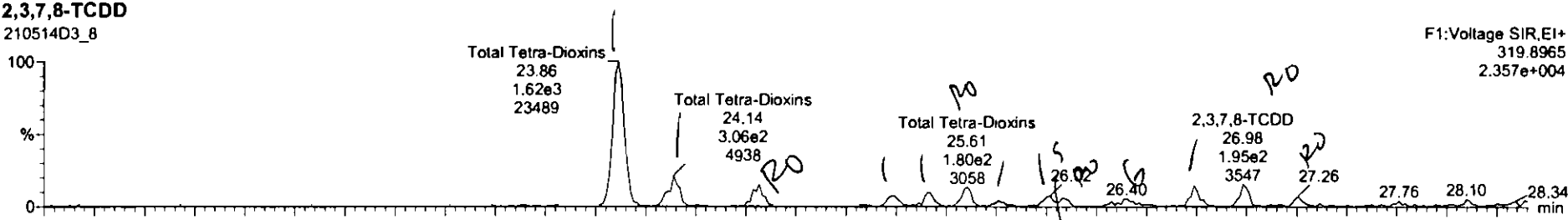
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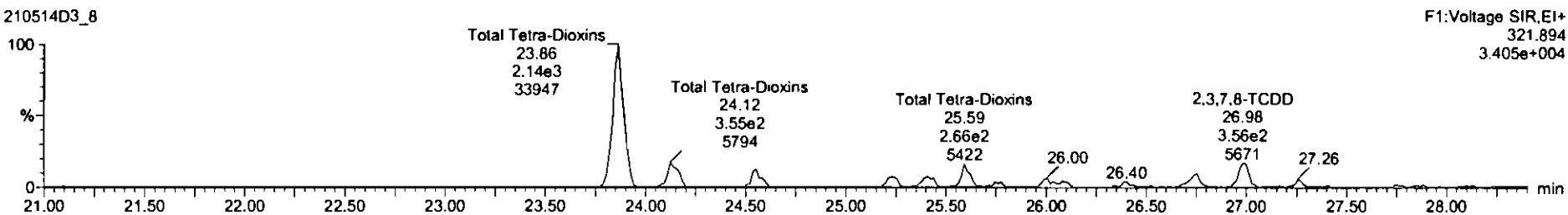
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2,3,7,8-TCDD

210514D3\_8

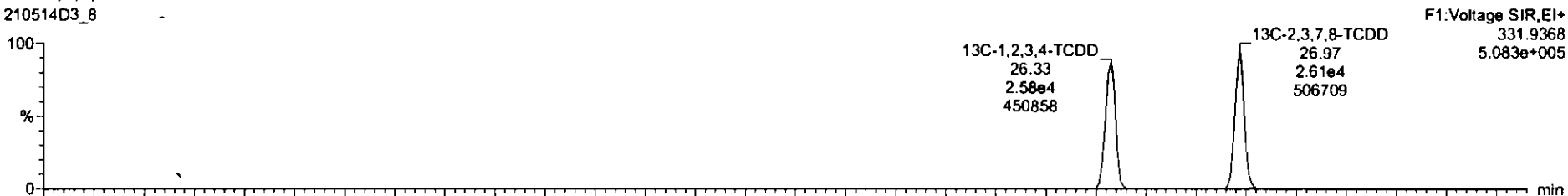


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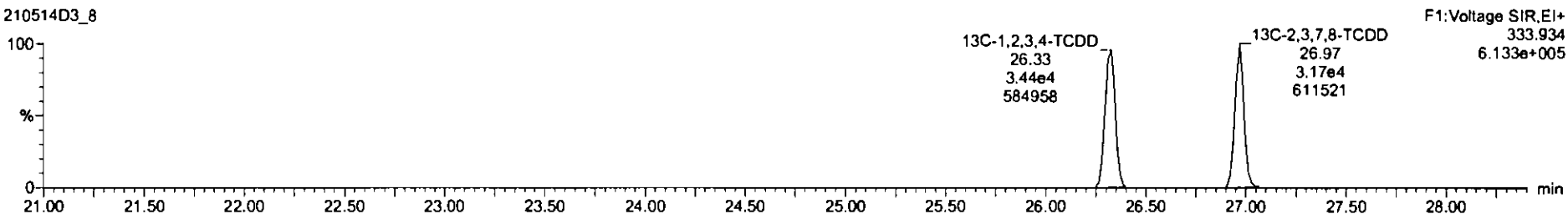


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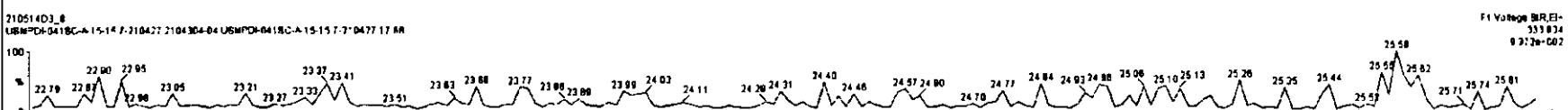
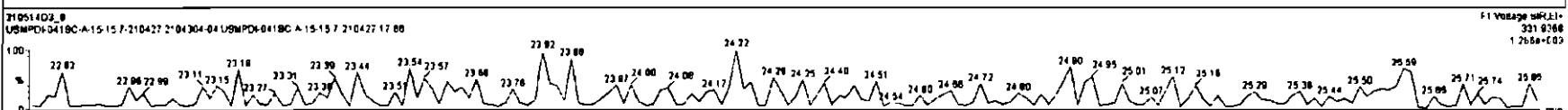
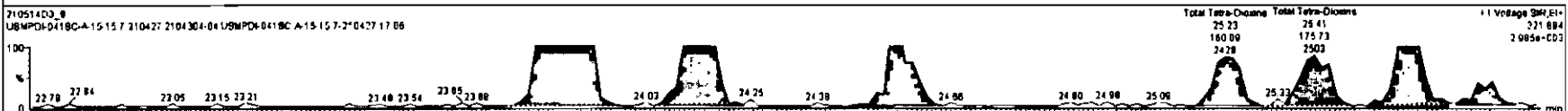
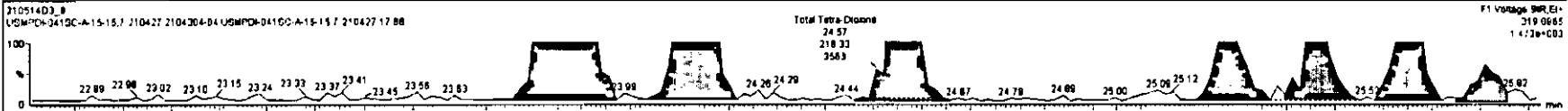


210514D3\_8



Name	Resp	RA	inj	RPF	uL/Inj	RT	RRT	Conc	%Rec	DL	EMPC
24 1,3C-ODD	6.25e4	0.80	NO	0.45	10.183	41.86	1.227	370	84.2	1.48	
26 1,3C-2,3,7,8-TCDF	1.00e6	0.77	NO	1.08	10.183	26.38	1.032	157	80.1	0.588	
28 1,3C-1,2,3,4,7,8-HxCDF	7.79e4	1.81	NO	0.80	18.188	30.02	1.140	185	84.2	0.828	
27 1,3C-2,3,4,7,8-PeCDF	8.67e4	1.58	NO	0.78	18.188	31.01	1.178	185	84.1	0.853	
28 1,3C-1,2,3,4,7,8-HxCDF	5.85e4	0.50	NO	1.03	10.183	33.83	0.388	194	79.8	0.880	
29 1,3C-1,2,3,6,7,8-HxCDF	6.25e4	0.51	NO	1.03	10.183	33.81	0.381	180	81.3	0.834	

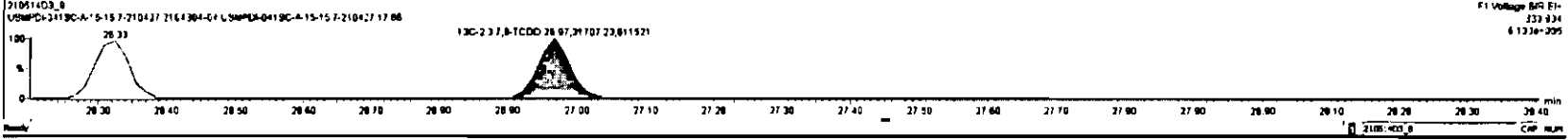
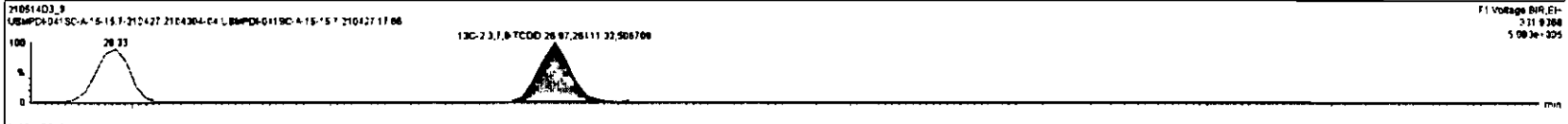
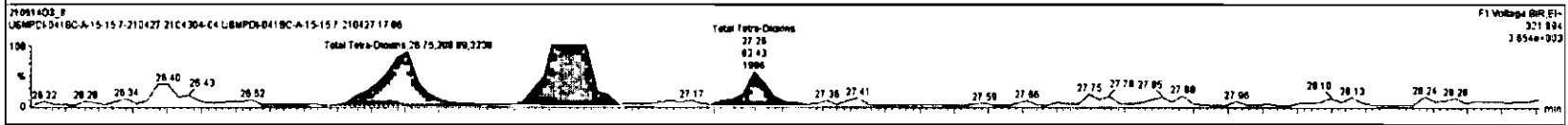
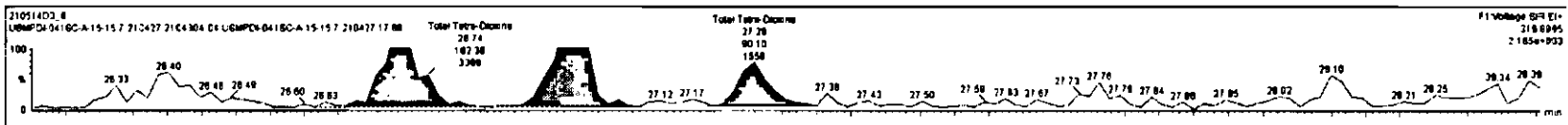
Name	RT	inj Resp	inj2 Resp	RA	inj	EMPC	Conc
1 Total Tetra-Chloro	23.86	1.825e3	2.151e3	0.78	NO	12.241	12.241
2 Total Tetra-Chloro	24.14	3.084e2	3.881e2	0.83	NO	2.1867	2.1867
3 Total Tetra-Chloro	24.57	2.183e2	2.372e2	0.91	YES	1.3808	0.00000
4 Total Tetra-Chloro	25.24	1.188e2	1.807e2	0.75	NO	0.90771	0.80771
5 Total Tetra-Chloro	25.41	1.357e2	1.757e2	0.77	NO	1.0067	1.0067
6 Total Tetra-Chloro	25.81	1.798e2	2.786e2	0.84	YES	1.3085	0.00000
7 Total Tetra-Chloro	25.78	5.072e1	6.546e1	0.77	NO	0.37864	0.37864
8 Total Tetra-Chloro	26.02	9.183e1	1.150e2	0.80	NO	0.67083	0.67083
9 Total Tetra-Chloro	26.08	7.828e1	7.988e1	0.83	YES	0.43237	0.00000





Name	Area	RA	nrv	RRF	width	RT	RRT	Conc.	%Rec	DL	EWPC
13C-OCDD	8.35e4	0.80	NO	0.45	10.183	41.88	1.227	370	84.2	1.48	
13C-2,3,7,8-TCDF	1.85e5	0.77	NO	1.08	10.183	26.38	1.022	157	80.1	0.888	
13C-1,2,3,7,8-PeCDF	7.19e4	1.81	NO	0.80	10.183	30.02	1.142	165	84.2	0.828	
13C-2,3,4,7,8-PeCDF	8.52e4	1.58	NO	0.78	10.183	31.01	1.178	185	84.1	0.853	
13C-1,2,3,4,7,8-HxCDF	5.85e4	0.80	NO	1.00	10.183	33.83	0.888	154	78.0	0.880	
13C-1,2,3,6,7,8-HxCDF	8.25e4	0.81	NO	1.83	10.183	33.81	0.888	180	81.3	0.834	

Name	RT	int Resp	id Resp	RA	nrv	EWPC	Conc.
Total Tetra-Dioxins	25.88	1.825e3	2.181e3	0.78	NO	12.241	12.241
Total Tetra-Dioxins	26.14	3.054e2	3.881e2	0.83	NO	2.1887	2.1887
Total Tetra-Dioxins	26.87	2.183e2	2.372e2	0.91	YES	1.3808	0.00000
Total Tetra-Dioxins	26.24	1.188e2	1.801e2	0.75	NO	0.80771	0.80771
Total Tetra-Dioxins	26.41	1.357e2	1.781e2	0.77	NO	1.0087	1.0087
Total Tetra-Dioxins	26.81	1.788e2	2.788e2	0.84	YES	1.2383	0.00000
Total Tetra-Dioxins	26.78	6.072e1	8.948e1	0.77	NO	0.29854	0.29854
Total Tetra-Dioxins	26.88	8.182e1	1.152e2	0.80	NO	0.67883	0.67883
Total Tetra-Dioxins	26.88	7.278e1	7.888e1	0.83	YES	0.43837	0.00000



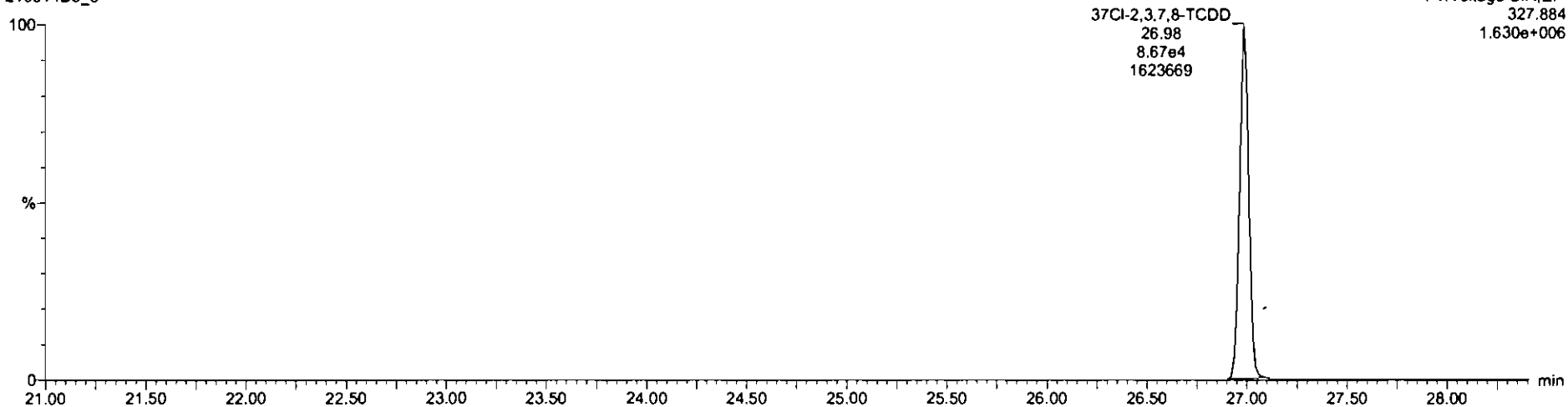
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Name: 210514D3\_8, Date: 14-May-2021, Time: 21:17:40, ID: 2104304-04 USMPDI-041SC-A-15-15.7-210427 17.66, Description: USMPDI-041SC-A-15-15.7-210427

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

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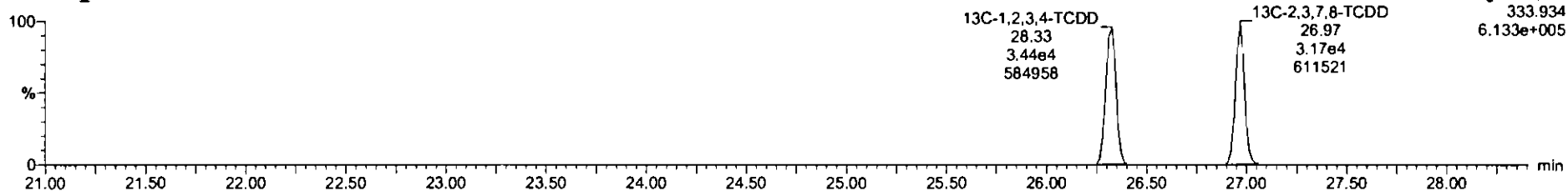


**13C-1,2,3,4-TCDD**

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210514D3\_8



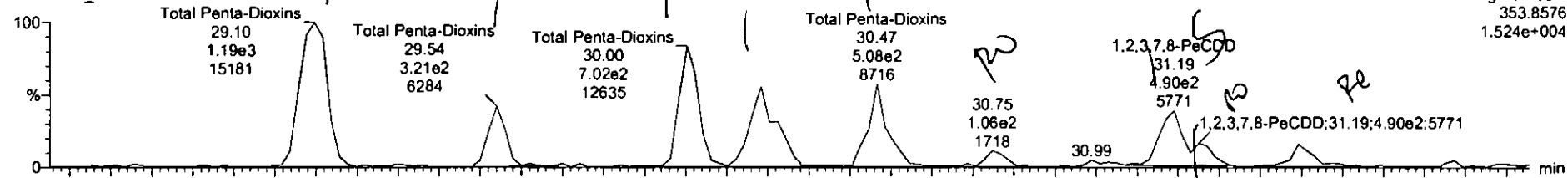
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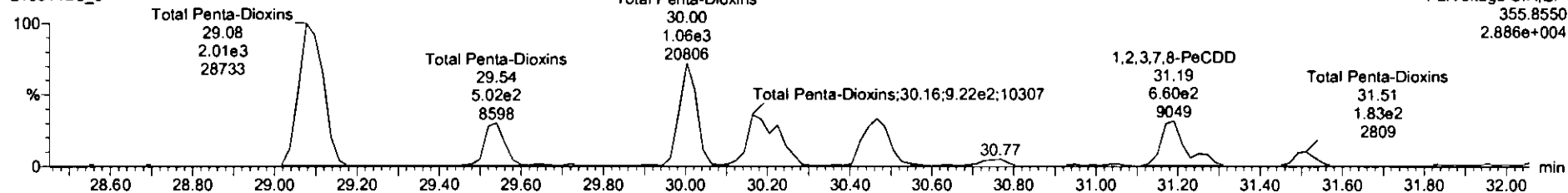
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1,2,3,7,8-PeCDD

210514D3\_8



210514D3\_8

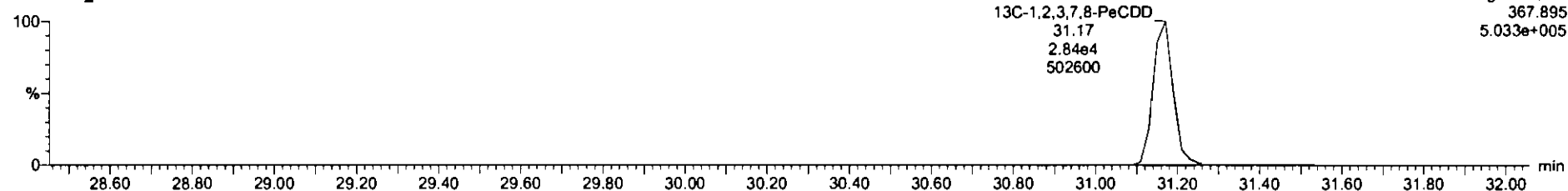


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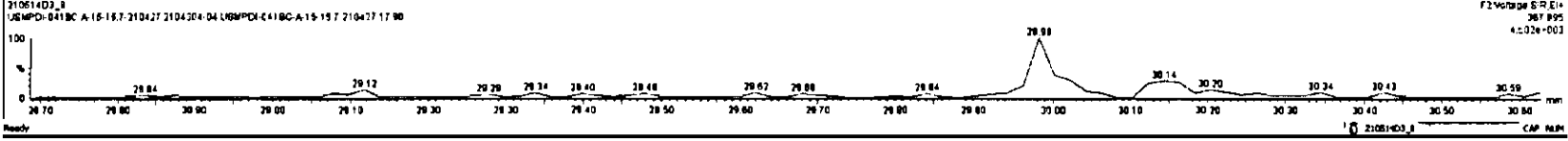
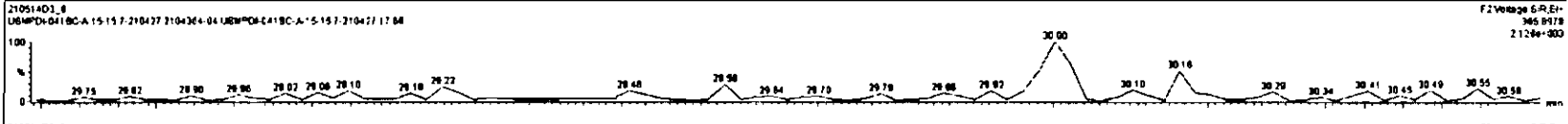
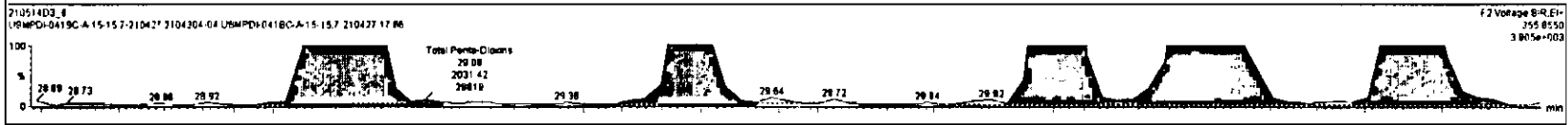
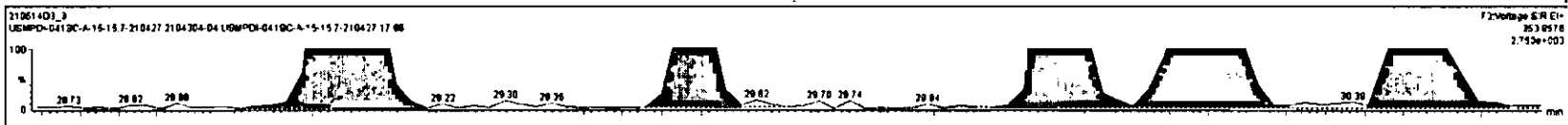


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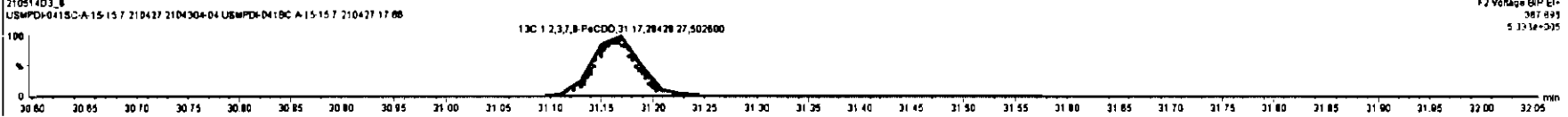
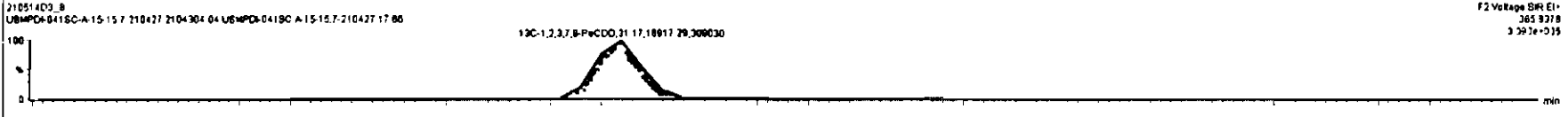
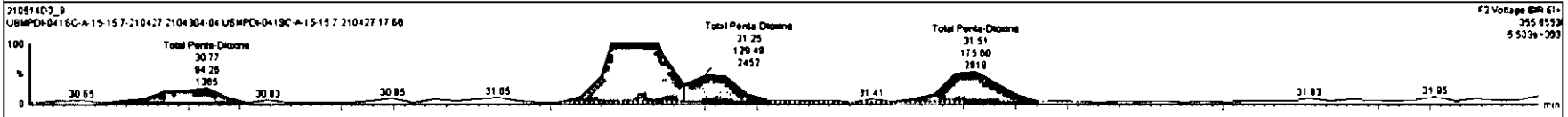
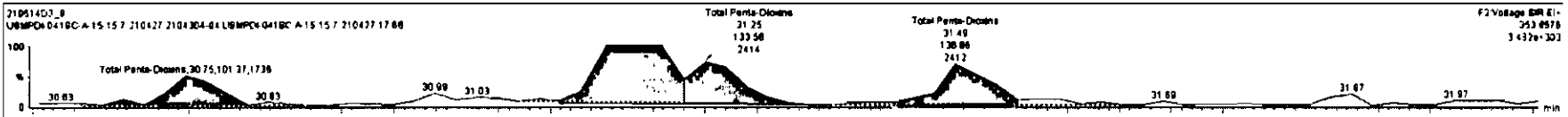
RT	Name	Peak	RA	Qty	RFV	wt/ret	RT	RFV	Conc	%Rec	DL	EMPC
26	13C-1,2,3,7,8-PeCDF	7.78e4	1.81	NO	0.80	10.183	30.02	1.145	185	84.2	0.838	
27	13C-1,2,3,7,8-PeCDF	8.57e4	1.88	NO	0.78	10.183	31.01	1.178	185	84.1	0.853	
28	13C-1,2,3,7,8-PeCDF	5.35e4	0.50	NO	1.00	10.183	30.43	0.888	154	78.8	0.890	
29	13C-1,2,3,7,8-PeCDF	8.35e4	0.81	NO	1.00	10.183	30.81	0.891	180	81.3	0.824	
30	13C-1,2,3,7,8-PeCDF	5.72e4	0.53	NO	0.94	10.183	30.88	1.011	180	81.8	0.813	
31	13C-1,2,3,7,8-PeCDF	5.08e4	0.48	NO	0.85	10.183	30.84	1.046	157	79.8	1.01	

RT	Name	Peak	RA	Qty	RFV	wt/ret	RT	RFV	Conc	%Rec	DL	EMPC
1	Total Penta-Chlorine	29.10	1.185e3	2.801e3	0.58	NO	15.864	18.854				
2	Total Penta-Chlorine	29.54	3.111e3	4.884e3	0.63	NO	3.8801	3.8801				
3	Total Penta-Chlorine	30.00	7.082e3	1.055e4	0.87	NO	8.8840	8.8840				
4	Total Penta-Chlorine	30.18	8.284e3	8.148e3	0.88	NO	7.5725	7.5725				
5	Total Penta-Chlorine	30.47	4.808e3	7.202e3	0.87	NO	5.8018	5.8018				
6	Total Penta-Chlorine	30.75	1.057e3	8.428e3	1.12	YES	8.74893	0.00000				
7	1,2,3,7,8-PeCDD	31.18	3.888e3	8.148e3	0.73	NO	4.3883	4.3883				
8	Total Penta-Chlorine	31.25	1.338e3	1.388e3	1.03	YES	1.0331	0.00000				
9	Total Penta-Chlorine	31.48	1.388e3	1.788e3	0.78	YES	1.4085	0.00000				



Name	Time	RA	nly	RFV	wt/ctd	RT	WRT	Comp	%Rec	DL	EMPC
13C-1,2,3,7,8-PeCDF	7.75e4	1.01	NO	0.80	10.183	30.02	1.140	105	84.2	0.030	
13C-2,3,4,7,8-PeCDF	9.57e4	1.98	NO	0.79	10.183	31.01	1.178	105	94.1	0.053	
13C-1,2,3,4,7,8-HxCDF	5.85e4	0.90	NO	1.00	10.183	33.63	0.986	154	78.8	0.060	
13C-1,2,3,6,7,8-HxCDF	6.25e4	0.51	NO	1.03	10.183	33.01	0.991	100	81.3	0.034	
13C-2,3,4,6,7,8-HxCDF	5.72e4	0.53	NO	0.94	10.183	34.50	1.011	160	81.8	0.013	
13C-1,2,3,7,8,9-HxCDF	5.08e4	0.49	NO	0.95	10.183	35.64	1.045	157	79.8	1.01	

Name	RT	wt Resp	wt Conc	RA	nly	EMPC	Comp
Total Penta-Dioxine	29.10	1.18e3	2.00e3	0.59	NO	15.854	15.854
Total Penta-Dioxine	29.54	3.11e2	4.80e2	0.63	NO	3.9801	3.9801
Total Penta-Dioxine	30.00	7.08e2	1.08e3	0.67	NO	8.8840	8.8840
Total Penta-Dioxine	30.16	8.26e2	9.16e2	0.88	NO	7.5725	7.5725
Total Penta-Dioxine	30.47	4.80e2	7.20e2	0.67	NO	5.9018	5.9018
Total Penta-Dioxine	30.75	1.01e2	9.42e1	1.08	YES	0.75483	0.00000
1,2,3,7,8-PeCDO	31.19	3.88e2	5.18e2	0.72	NO	4.3843	4.3553
Total Penta-Dioxine	31.25	1.23e2	1.28e2	1.03	YES	1.0371	0.00000
Total Penta-Dioxine	31.49	1.39e2	1.75e2	0.78	YES	1.4085	0.00000



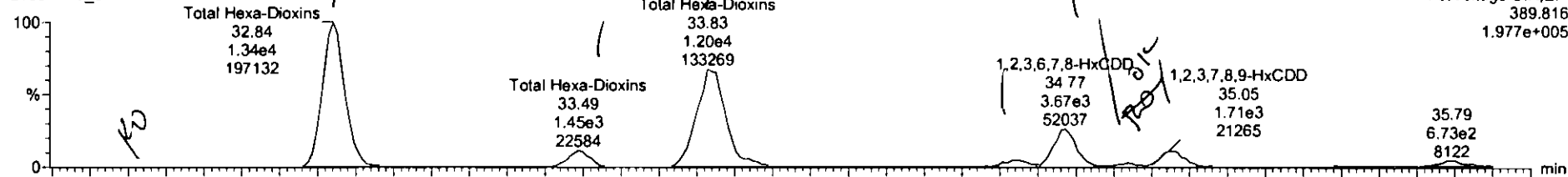
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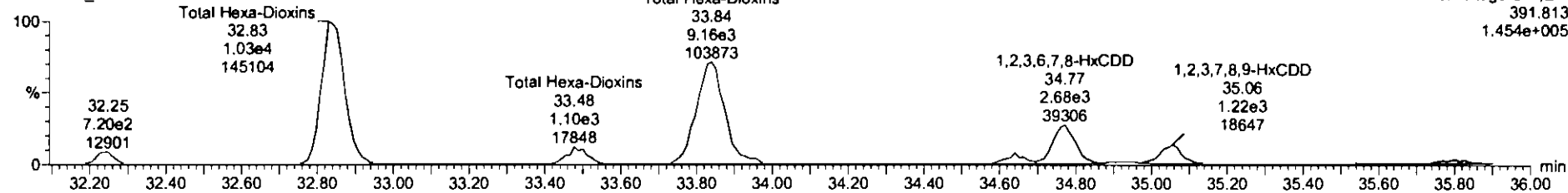
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1,2,3,4,7,8-HxCDD

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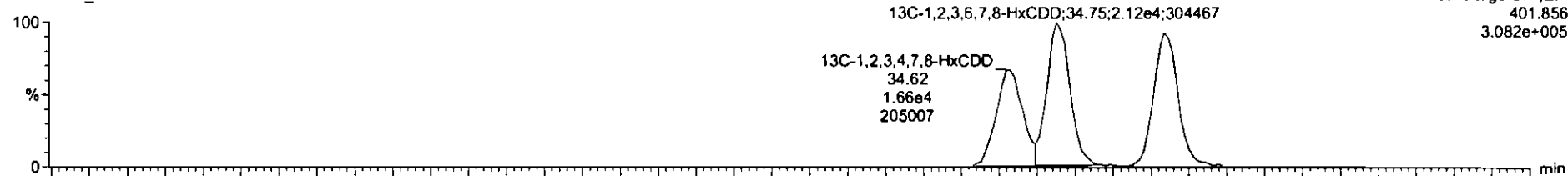


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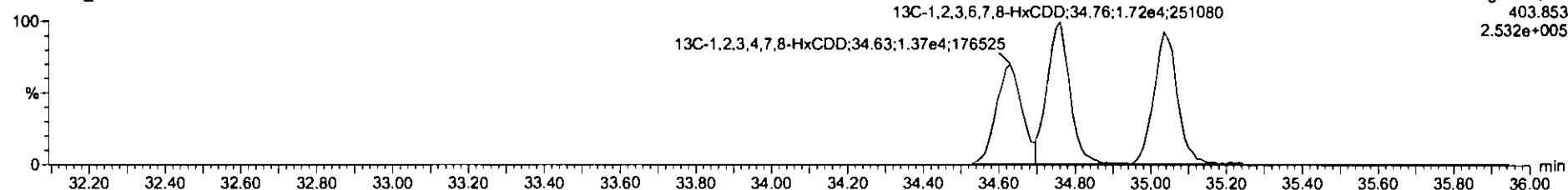


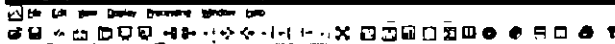
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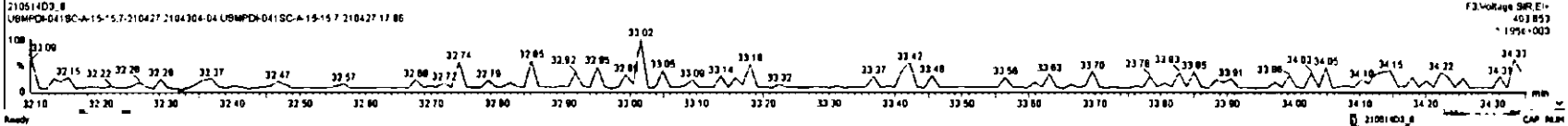
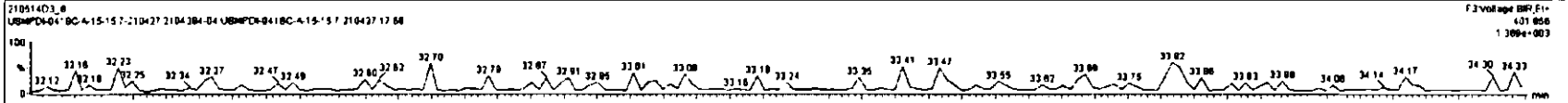
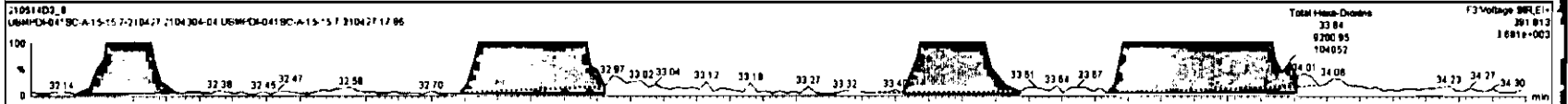
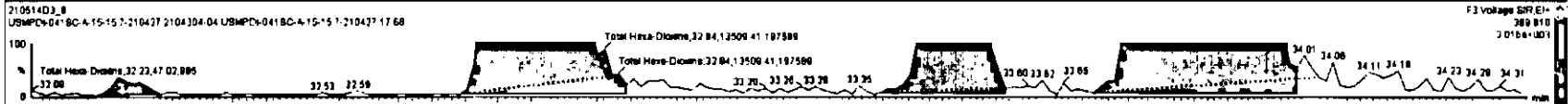




210514D3\_8\_21043\_04 USMPC-041SC-A-15-15-7-210427-17-56 USMPC-041SC-A-15-15-7-210427

#	Name	Resp	RA	Qty	RPY	Adopt	RT	RPT	Comp	TUNC	DL	EMPC
41	Total Hexa-Dioxine			1.01	10 P85		31.7				1.00	320
42	Total Hexa-Dioxine			1.07	10 P83		27.40				7.80	2740
43	Total Tetra-Furane			0.86	10 P83		34.7				0.203	864
44	Total Penta-Furane			0.85	10 P83		86.0				0.142	86.0
45	Total Penta-Furane			0.85	10 P83		754				1.12	750
46	Total Hexa-Furane			1.12	10 P83		1190				2.08	1180

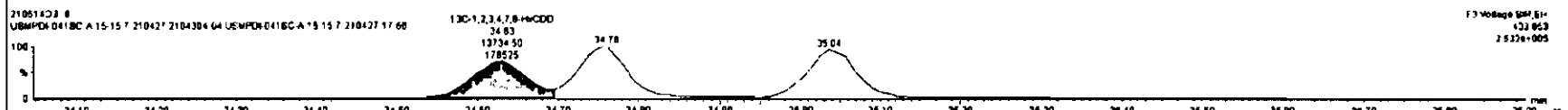
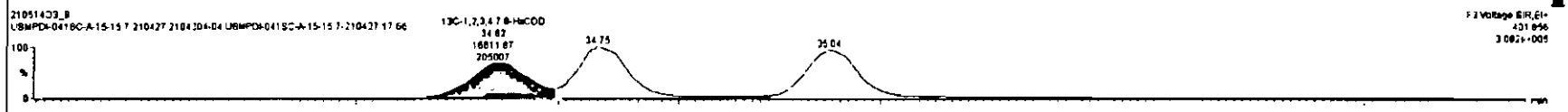
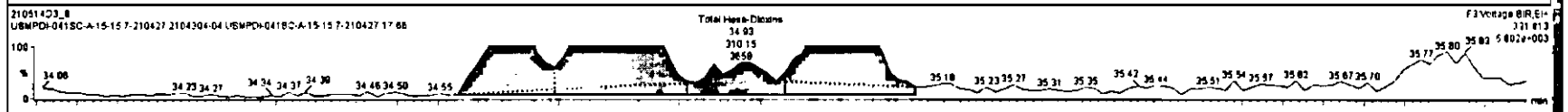
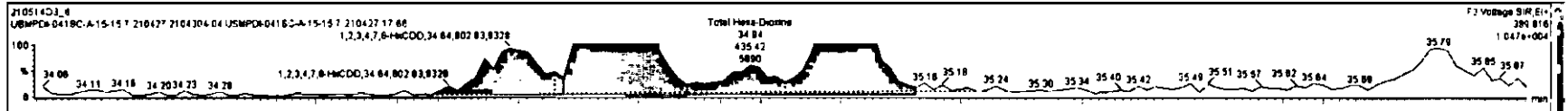
#	Name	RT	Ad. Mass	Ad. Mass	RA	Qty	EMPC	Comp
1	Total Hexa-Dioxine	32.23	4.782e1	7.202e2	0.07	YES	0.46120	0.00000
2	Total Hexa-Dioxine	32.84	1.361e4	1.028e4	1.30	NO	120.73	120.73
3	Total Hexa-Dioxine	33.40	1.477e3	1.112e3	1.33	NO	14.080	14.080
4	Total Hexa-Dioxine	33.83	1.212e4	9.207e3	1.32	NO	115.78	115.78
5	1,2,3,4,7,8-HxCDD	34.04	0.029e2	0.529e2	1.29	NO	0.2437	0.2437
6	1,2,3,6,7,8-HxCDD	34.77	3.086e3	2.856e3	1.28	NO	30.837	30.837
7	Total Hexa-Dioxine	34.94	4.366e2	2.672e2	1.83	YES	3.2518	0.07000
8	1,2,3,7,8-HxCDD	35.05	1.756e3	1.426e3	1.23	NO	15.897	15.897



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Name	Resp	RA	Int	Area	RT	WRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Chlorine			1.01	10.183			321		1.80	321
42 Total Hexa-Chlorine			1.07	10.183			2740		7.80	2740
43 Total Tetra-Furans			0.86	10.183			547		0.203	954
44 1,2,3,4,7,8-HxCDD			0.86	10.183			86.0		0.142	86.0
45 Total Penta-Furans			0.36	10.183			754		1.12	780
46 Total Hexa-Furans			1.12	10.183			1180		2.08	1190

Name	RT	Int Resp	Int2 Resp	RA	Int	EMPC	Conc
1 Total Hexa-Chlorine	32.25	4.702e1	7.202e2	0.07	YES	0.46128	0.00000
2 Total Hexa-Chlorine	32.84	1.361e4	1.039e4	1.30	NO	1.2673	1.2973
3 Total Hexa-Chlorine	33.46	1.477e3	1.112e3	1.33	NO	14.090	14.080
4 Total Hexa-Chlorine	33.83	1.272e4	8.201e3	1.32	NO	11.578	11.578
5 1,2,3,4,7,8-HxCDD	34.84	8.028e2	6.528e2	1.23	NO	8.2437	8.2437
6 1,2,3,4,7,8-HxCDD	34.77	3.963e3	7.823e3	1.28	NO	32.845	32.845
7 Total Hexa-Chlorine	34.84	4.354e2	3.104e2	1.40	NO	4.0482	4.0482
8 1,2,3,7,8,9-HxCDD	35.08	1.756e3	1.413e3	1.24	NO	15.834	15.834



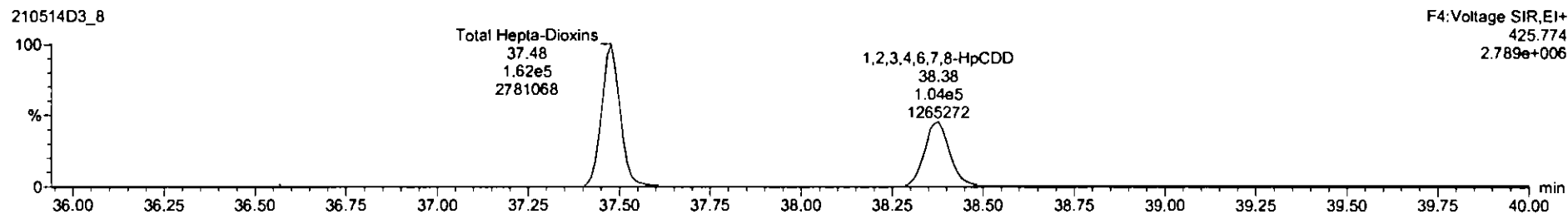
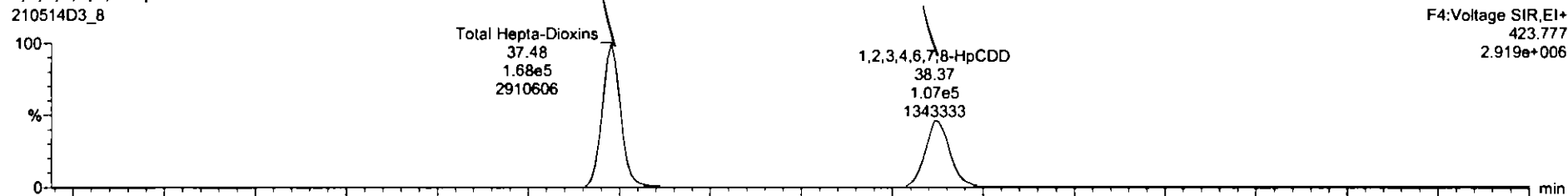


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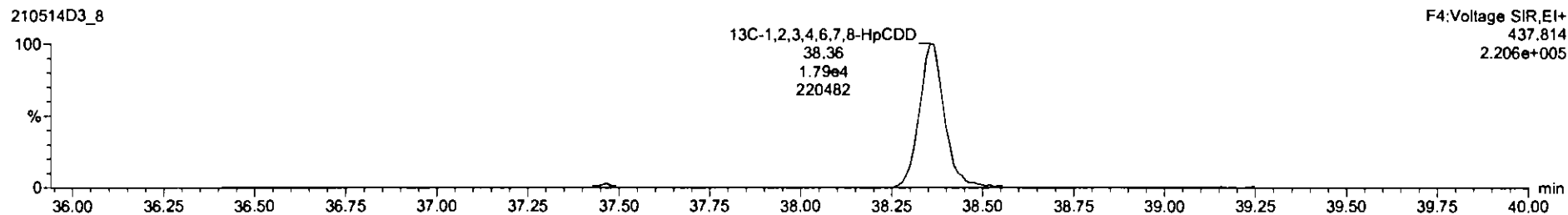
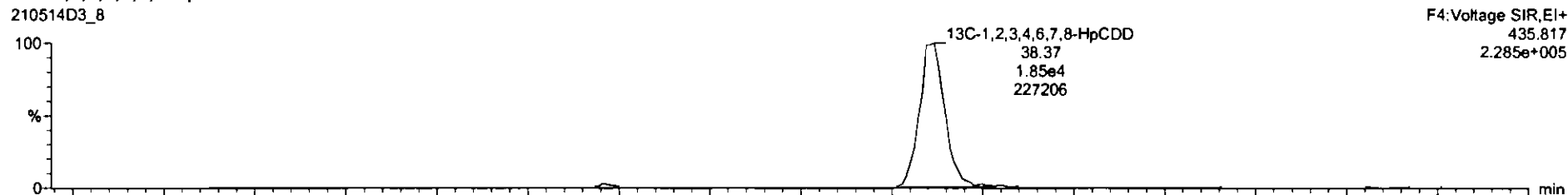
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1,2,3,4,6,7,8-HpCDD



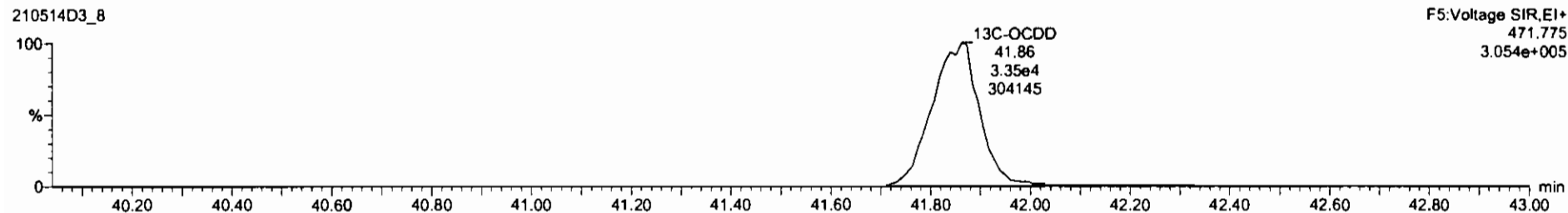
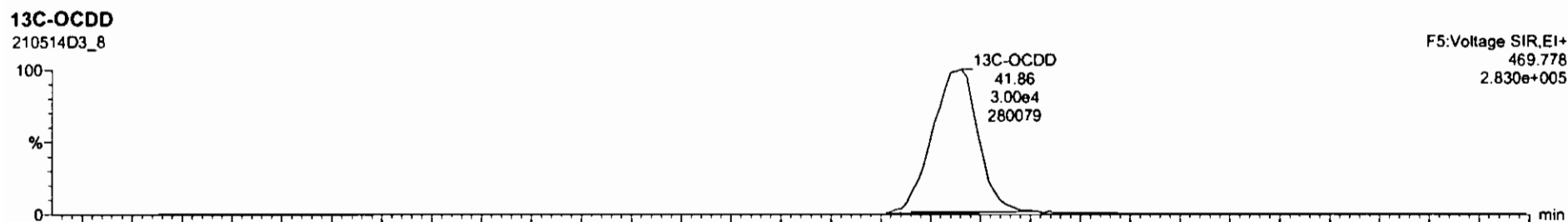
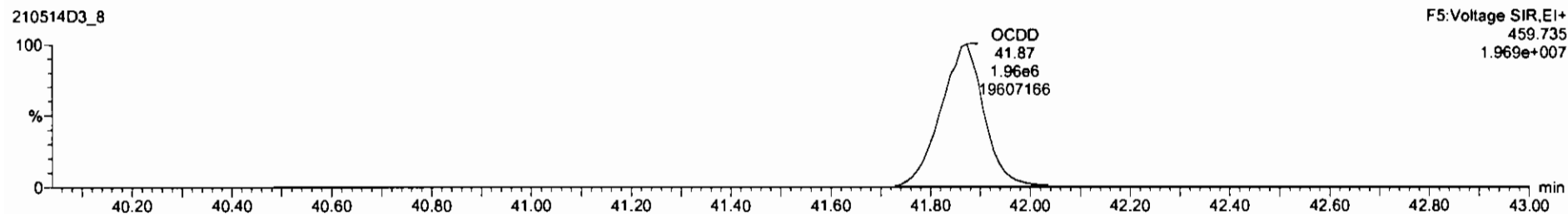
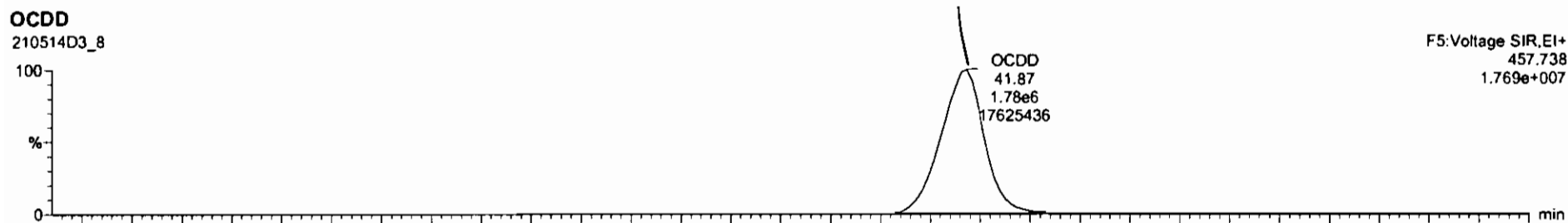
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Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

Name: 210514D3\_8, Date: 14-May-2021, Time: 21:17:40, ID: 2104304-04 USMPDI-041SC-A-15-15.7-210427 17.66, Description: USMPDI-041SC-A-15-15.7-210427

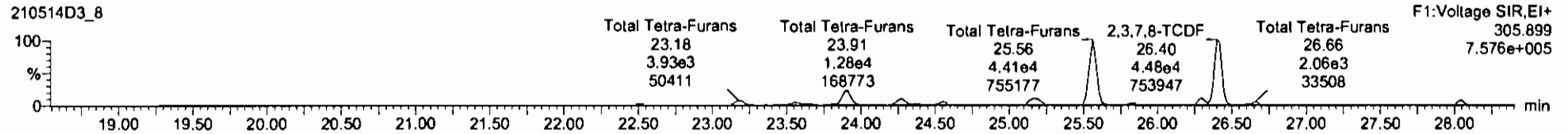
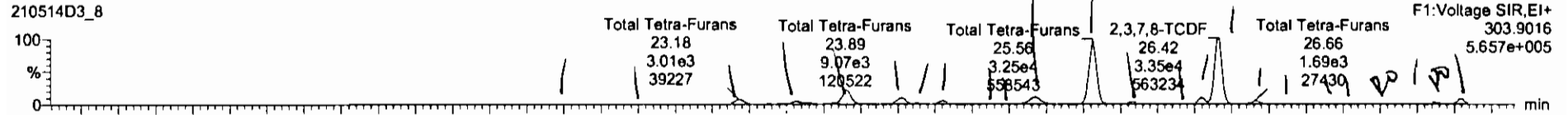


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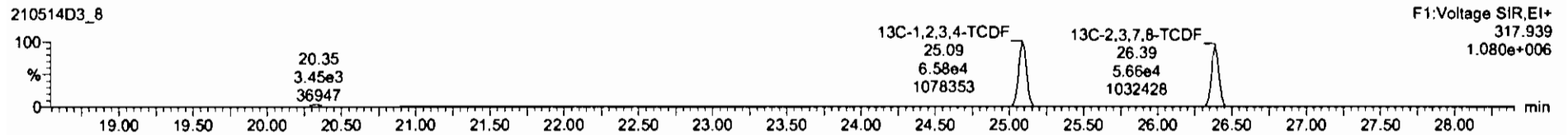
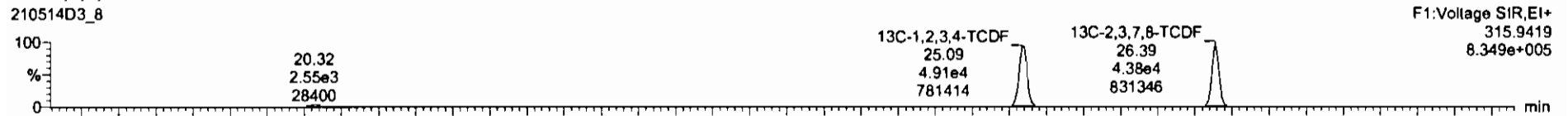
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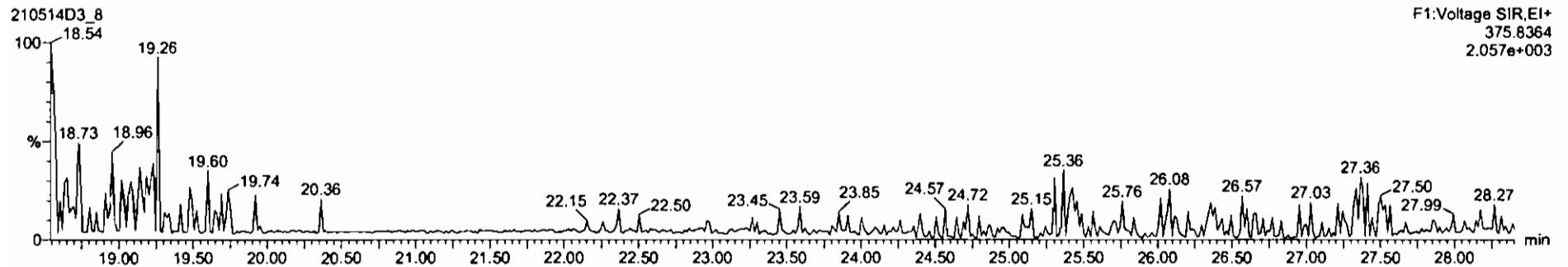
2,3,7,8-TCDF



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



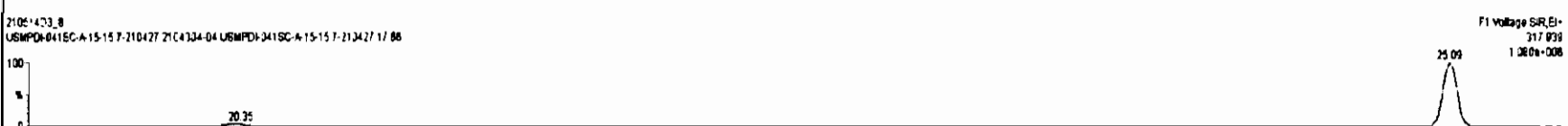
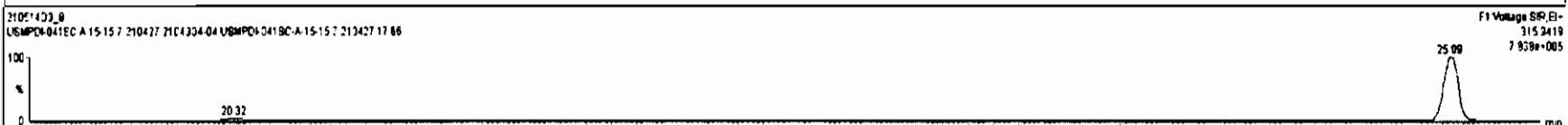
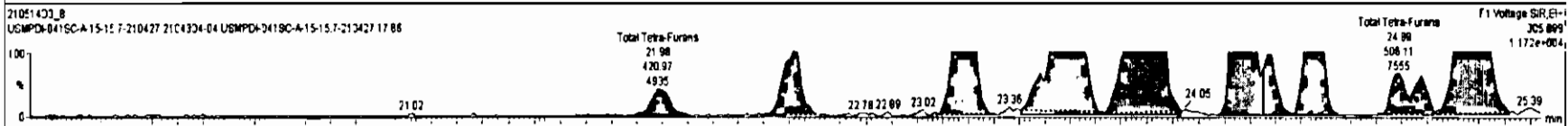
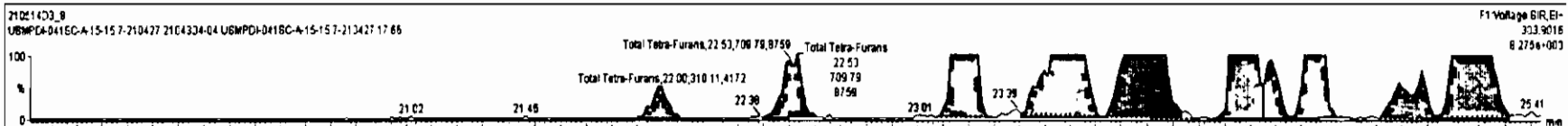
DPE1



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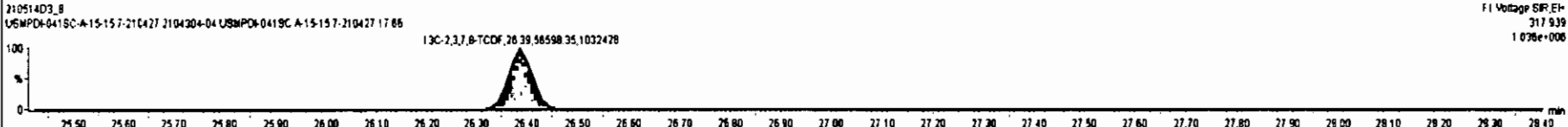
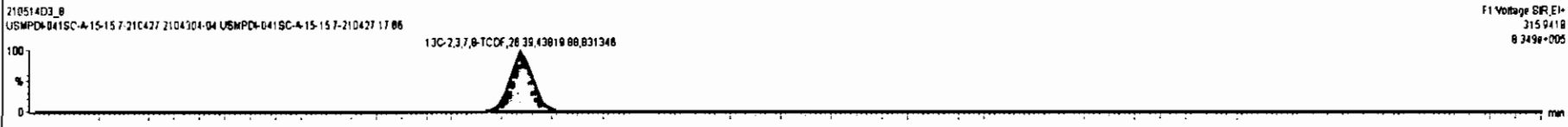
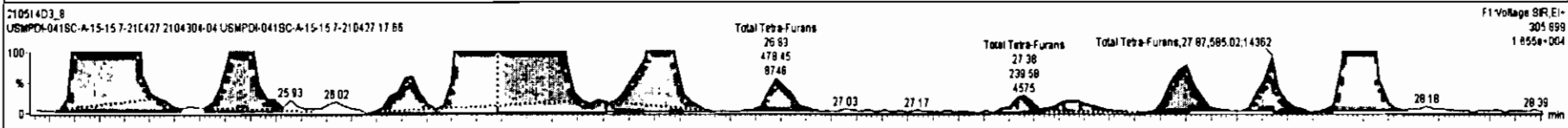
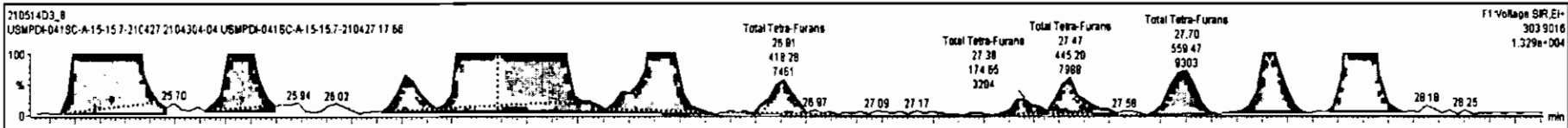
Name	Resp	RA	rv	RPF	width	RT	RPT	Conc.	%Rec	DL	EMPC
Total Hexa-Dioxine				1.01	10.183			321	1.89	321	
Total Hepta-Dioxine				1.07	10.183			2740	7.89	2740	
Total Tetra-Furane				0.88	10.183			508	0.203	508	
1st Furc. Penta-Furane				0.95	10.183			86.0	0.142	86.0	
Total Penta-Furane				0.95	10.183			754	1.12	754	
Total Hexa-Furane				1.12	10.183			1190	2.08	1190	

Name	RT	rt Resp	#2 Resp	RA	rv	EMPC	Conc.
Total Tetra-Furane	22.00	3.101e2	4.213e2	0.74	NO	1.8595	1.8595
Total Tetra-Furane	22.53	7.039e2	1.011e3	0.70	NO	3.8959	3.8959
Total Tetra-Furane	23.18	3.032e3	3.950e3	0.77	NO	15.811	15.811
Total Tetra-Furane	23.56	2.840e3	3.875e3	0.72	NO	14.301	14.301
Total Tetra-Furane	23.89	9.038e3	1.292e4	0.70	NO	49.726	49.726
Total Tetra-Furane	24.28	3.998e3	5.190e3	0.76	NO	20.740	20.740
Total Tetra-Furane	24.38	4.547e2	6.082e2	0.75	NO	2.4071	2.4071
Total Tetra-Furane	24.55	1.828e3	2.342e3	0.78	NO	8.4433	8.4433
Total Tetra-Furane	24.89	3.426e2	5.081e2	0.88	NO	1.9223	1.9223
Total Tetra-Furane	24.98	3.213e2	4.321e2	0.76	NO	1.7308	1.7308
Total Tetra-Furane	25.18	5.482e3	7.182e3	0.76	NO	28.788	28.700
Total Tetra-Furane	25.56	3.277e4	4.462e4	0.73	NO	175.28	175.28



Name	Resp	RA	rvy	RWF	idRef	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins			1.01	10.183				321	1.89	321	
42 Total Hepta-Dioxins			1.07	10.183				2740	7.80	2740	
43 Total Tetra-Furans			0.88	10.183				550	6.283	562	
44 1st Func. Penta-Furans			0.95	10.183				86.0	0.142	86.0	
45 Total Penta-Furans			0.95	10.183				754	1.12	760	
46 Total Hexa-Furans			1.12	10.183				1190	2.09	1190	

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc
13 Total Tetra-Furans	25.84	1.220e3	1.687e3	0.73	NO	6.6334	6.6334
14 Total Tetra-Furans	26.16	4.105e2	6.022e2	0.88	NO	2.2924	2.2924
15 Total Tetra-Furans	26.29	3.111e3	4.551e3	0.88	NO	17.348	17.348
16 2,3,7,8-TCDF	26.42	3.389e4	4.540e4	0.75	NO	179.51	179.51
17 Total Tetra-Furans	26.85	1.808e3	2.402e3	0.75	NO	8.5356	9.5356
18 Total Tetra-Furans	26.91	4.183e2	4.794e2	0.87	NO	2.8308	2.0308
19 Total Tetra-Furans	27.38	1.747e2	2.396e2	0.73	NO	0.93903	0.93903
20 Total Tetra-Furans	27.47	4.452e2	2.772e2	1.81	YES	1.1112	0.00000
21 Total Tetra-Furans	27.70	5.985e2	7.413e2	0.75	NO	2.9458	2.9458
22 Total Tetra-Furans	27.87	7.983e2	5.850e2	1.36	YES	2.3446	0.00000
23 Total Tetra-Furans	28.05	2.380e3	2.954e3	0.80	NO	12.833	12.833



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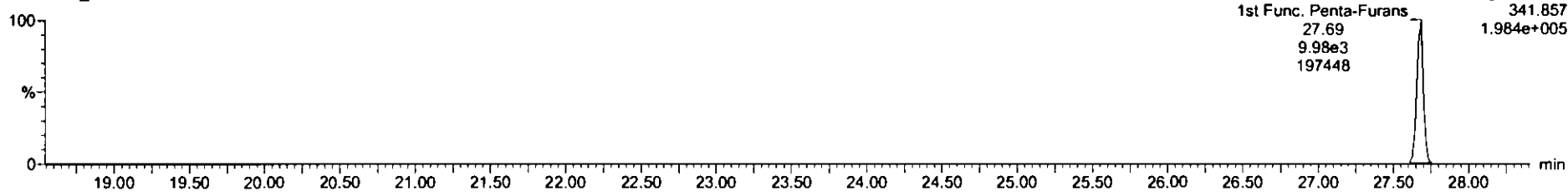
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1st Func. Penta-Furans

210514D3\_8

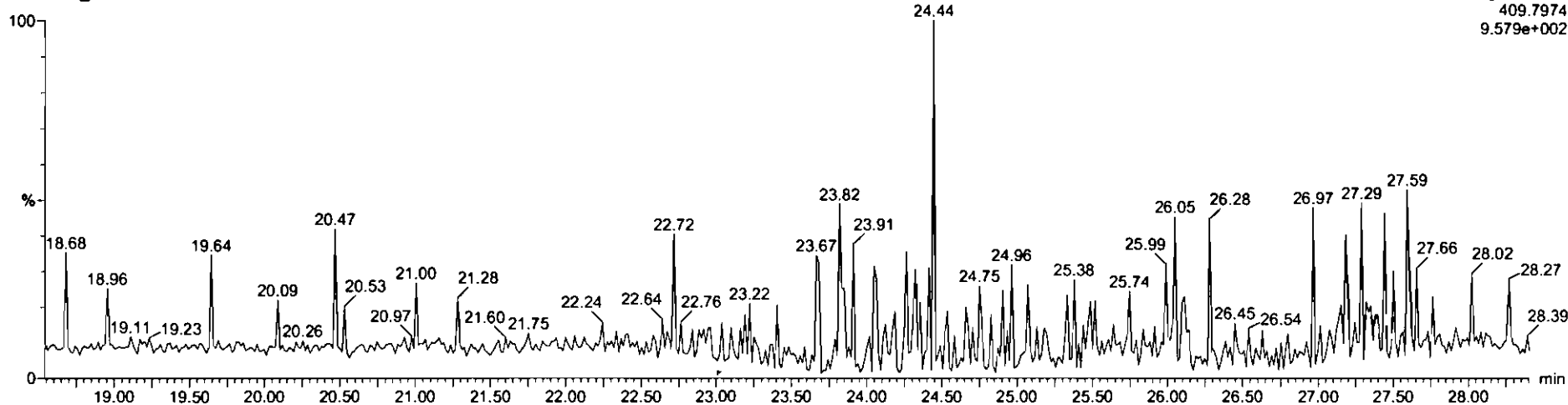


210514D3\_8



DPE6

210514D3\_8

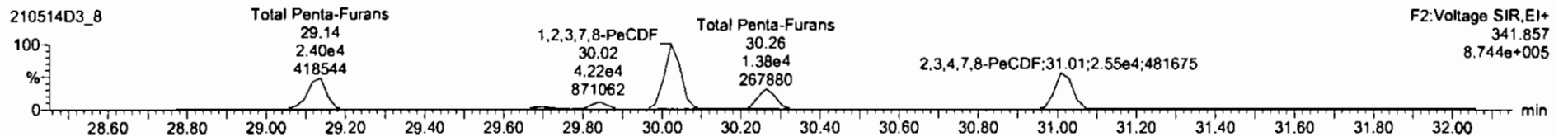
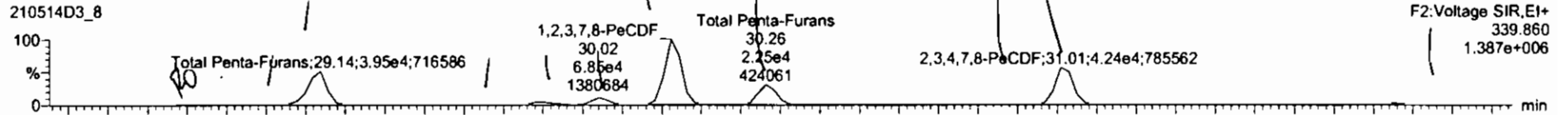


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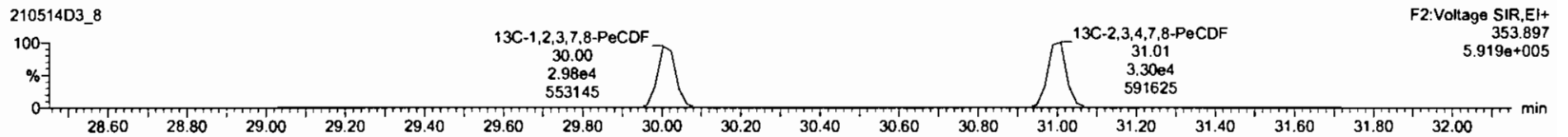
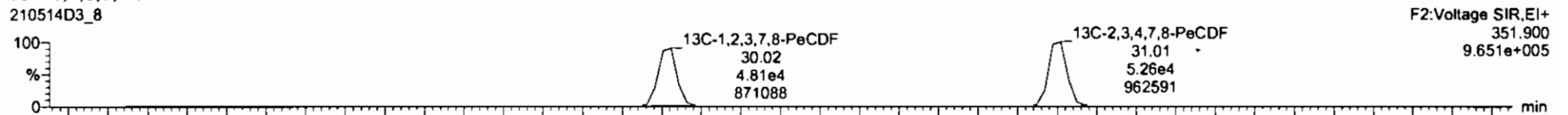
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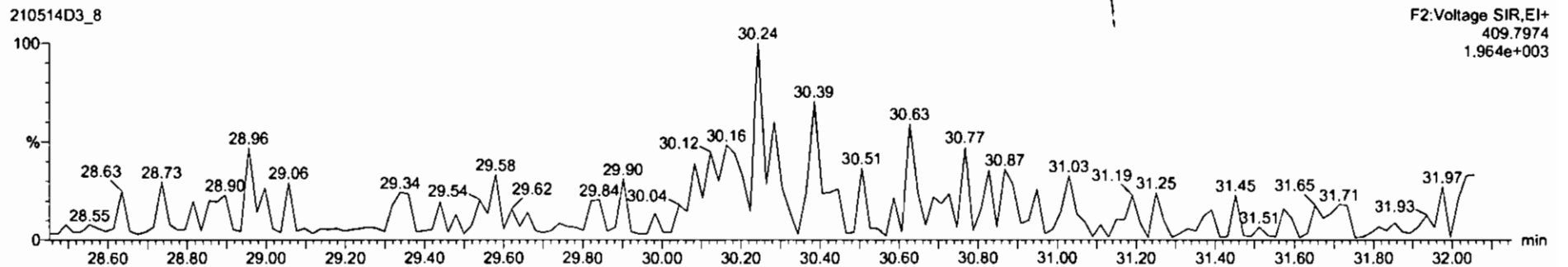
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**13C-1,2,3,7,8-PeCDF**

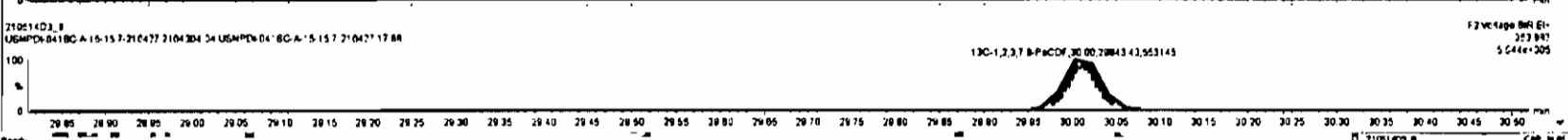
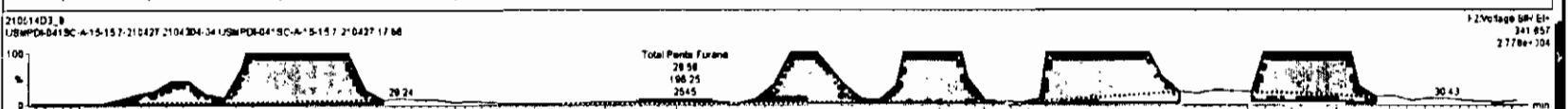
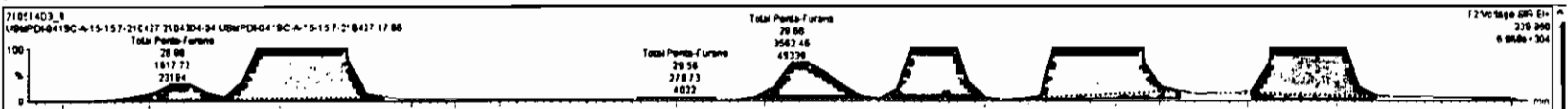


**DPE2**



Peak	Name	Resp	RA	PLY	RPV	uIndex	RT	RPV	Comp	%Area	DL	RPV
42	Total Penta-Furans				1.02	10.183			2140		7.88	2740
43	Total Tetra-Furans				0.86	10.183			550		0.203	582
44	Total Furc. Penta-Furans				0.95	10.183			66.0		0.142	64.0
45	Total Penta-Furans				0.85	10.183			775		1.12	799
46	Total Tetra-Furans				1.12	10.183			1190		2.00	1180
47	Total Penta-Furans				1.18	10.183			1980		1.87	1980
48	PPX1											

Peak	Name	RT	u1 Resp	u2 Resp	RA	PLY	RPV	Comp
1	Total Penta-Furans	28.97	8.72e1	5.90e1	1.12	YES	0.26038	0.00000
2	Total Penta-Furans	28.98	1.818e3	8.352e2	1.75	NO	0.4584	0.0046
3	Total Penta-Furans	28.14	4.015e4	2.417e4	1.68	NO	182.89	183.89
4	Total Penta-Furans	28.68	2.787e2	1.982e2	1.42	NO	1.2628	1.8828
5	Total Penta-Furans	28.84	3.852e3	2.188e3	1.83	NO	14.882	14.582
6	Total Penta-Furans	28.84	7.538e3	4.717e3	1.80	NO	31.676	31.028
7	1,2,3,7,8-PeCDF	30.02	8.948e4	4.272e4	1.83	NO	288.22	288.22
8	Total Penta-Furans	30.28	2.322e4	1.446e4	1.81	NO	95.438	95.438
9	Total Penta-Furans	30.88	8.186e2	4.875e2	1.87	NO	3.3007	3.3007
10	2,3,4,7,8-PeCDF	31.81	4.280e4	2.983e4	1.88	NO	199.88	151.88
11	Total Penta-Furans	31.88	2.381e3	1.427e3	1.86	NO	9.5816	9.5816





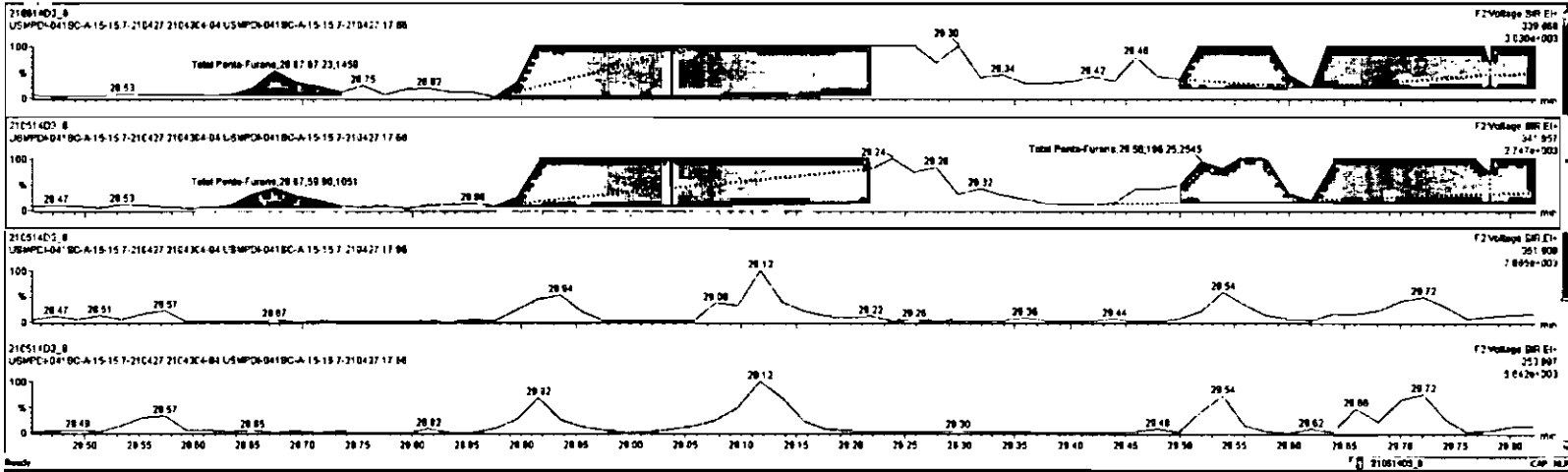
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21-514D3\_8 - 2104304 04 USMPCD0415-A-15-7-210427 17 00 USMPCD0415-A-15-7-210427

No	Name	Resp	RA	PA	RP	Volts	RT	RPY	Cov	Area	CL	Pure
42	Total Penta-Furans				1.37	10.183				2740	1.00	2740
43	Total Tetra-Furans				0.66	10.183				595	0.203	542
44	1st Func. Penta-Furans				0.96	10.183				68.0	0.142	68.0
45	Total Penta-Furans				0.66	10.183				278	1.12	278
46	Total Tetra-Furans				1.12	10.183				116	2.08	116
47	Total Penta-Furans				1.16	10.183				136	1.87	136
48	PFH1											

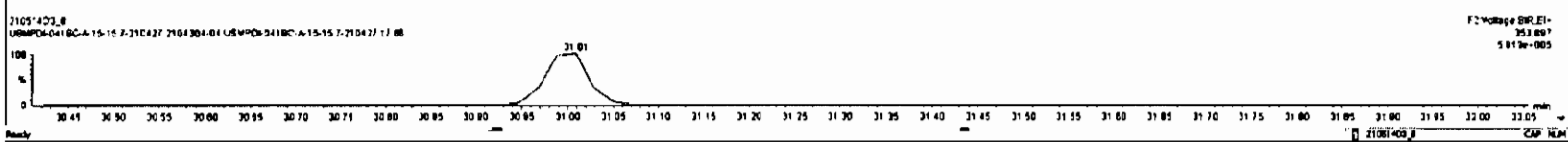
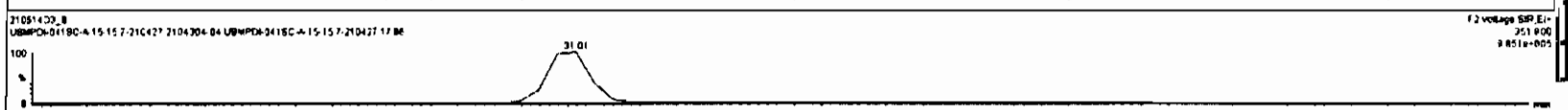
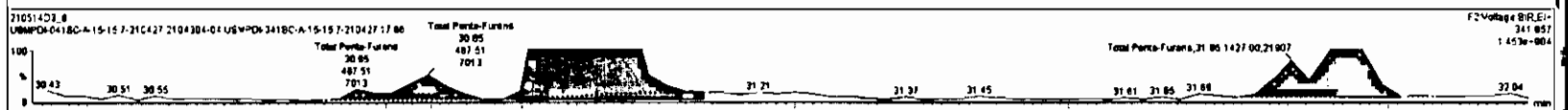
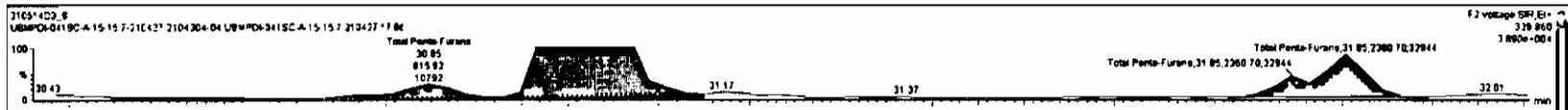
  

No	Name	RT	int Resp	nd Resp	RA	PA	EMPC	Cov
1	Total Penta-Furans	20.87	8.773e1	5.982e1	1.13	YES	0.26009	0.00000
2	Total Penta-Furans	20.88	1.819e3	9.352e2	1.73	NO	5.86848	5.4846
3	Total Penta-Furans	20.14	4.015e4	2.417e4	1.86	NO	162.88	162.88
4	Total Penta-Furans	20.88	2.787e2	1.982e2	1.42	NO	1.3020	1.2020
5	Total Penta-Furans	20.88	3.582e3	2.188e3	1.83	NO	14.162	14.162
6	Total Penta-Furans	20.88	7.530e3	4.717e3	1.80	NO	38.698	31.038
7	1,2,3,7,8-PeCDF	20.02	8.898e4	4.272e4	1.63	NO	288.22	288.22
8	Total Penta-Furans	20.28	2.323e1	1.648e1	1.81	NO	88.410	88.410
9	Total Penta-Furans	20.88	8.190e2	4.875e2	1.67	NO	3.9757	3.3507
10	1,2,3,4,7,8-PeCDF	21.01	4.481e4	2.587e4	1.88	NO	186.28	186.48
11	Total Penta-Furans	21.05	2.381e3	1.427e3	1.85	NO	8.5915	8.5915



Area	Peak	RA	inj	RFI	wt/rd	RT	RRT	Conc	%Sec	DL	EMPC
42	Total Penta-Chloro			3.27	10.183			2740		7.89	2740
43	Total Tetrachloro			0.86	10.183			698		0.203	563
44	Total Furan-Penta-Furans			0.85	10.183			68.0		2.143	68.0
45	Total Penta-Furans			0.85	10.183			775		1.12	775
46	Total Hexa-Furans			1.12	10.183			1190		2.00	1190
47	Total Hepta-Furans			1.18	10.183			1580		1.87	1580
48	SP11										

Area	RT	inj	RFI	RA	inj	EMPC	Conc	
1	Total Penta-Furans	30.87	6.773e1	6.880e1	1.12	YES	0.28008	0.00008
2	Total Penta-Furans	30.88	1.818e3	8.353e2	1.73	NO	8.4648	8.4648
3	Total Penta-Furans	28.14	8.015e4	2.417e4	1.88	NO	162.88	162.88
4	Total Penta-Furans	29.56	2.781e3	1.863e2	1.42	NO	1.3028	1.2028
5	Total Penta-Furans	29.68	3.543e3	2.188e3	1.83	NO	14.962	14.562
6	Total Penta-Furans	29.84	7.638e3	4.717e3	1.80	NO	31.026	31.026
7	2,3,7,8-PeCDF	30.02	6.948e4	4.273e4	1.83	NO	208.22	208.22
8	Total Penta-Furans	30.26	2.323e4	1.448e4	1.81	NO	85.438	85.438
9	Total Penta-Furans	30.85	8.158e2	4.875e2	1.87	NO	3.3007	3.3007
10	2,3,7,8-PeCDF	31.01	4.290e4	2.583e4	1.88	NO	131.88	131.88
11	Total Penta-Furans	31.88	2.381e3	1.427e3	1.85	NO	8.5816	8.5816

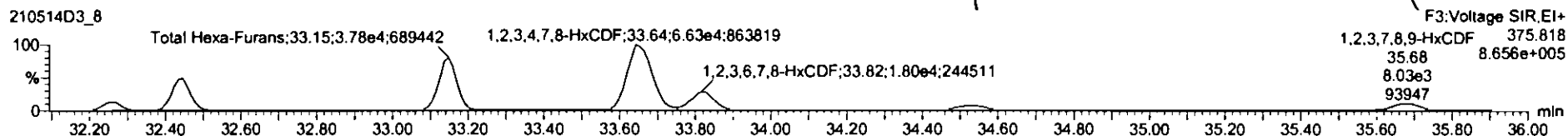
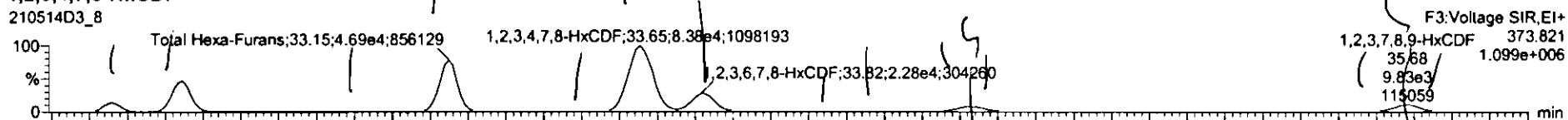


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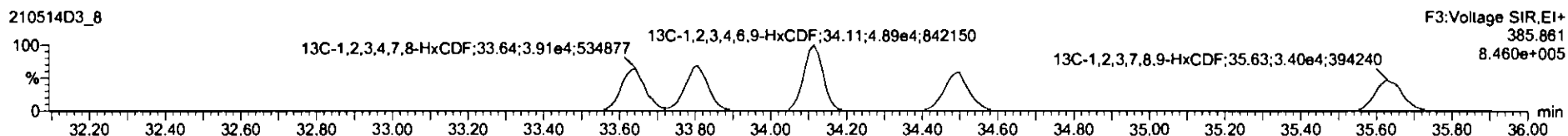
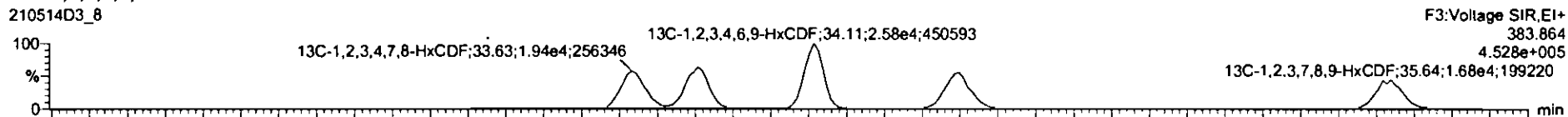
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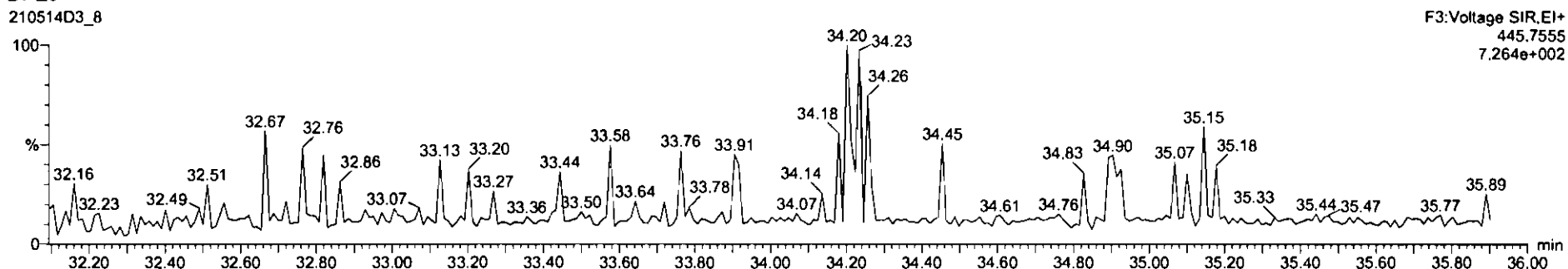
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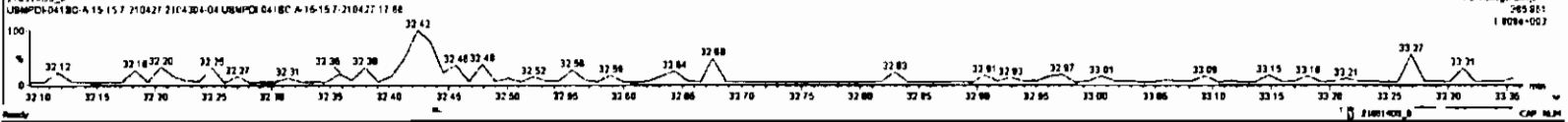
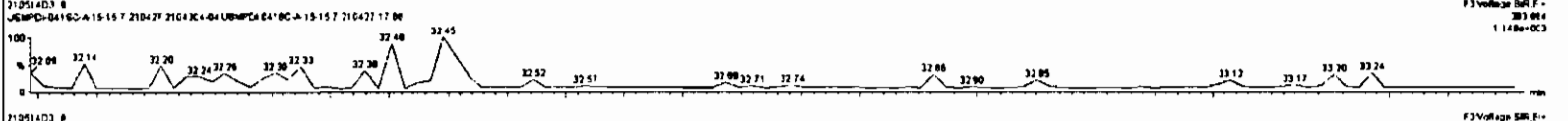
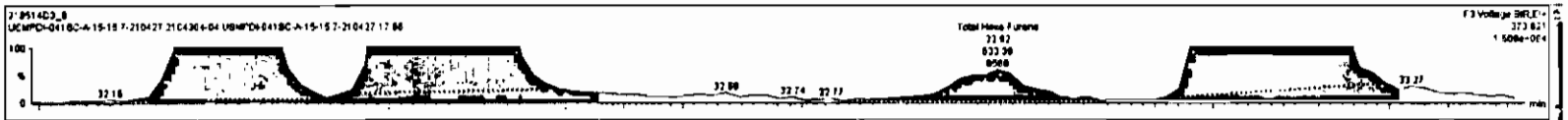
DPE3



21051403\_8.rid - 04-15-15 7:21:04.27 210427 210430-04 USMPCD-041BC-A-15-15 7:21:04.27 17.86

Name	RT	RA	RP	RPV	RPVd	RT	RPV	Conc	RPV	CL	RPV
Total Hexa-Furans				1.07	10.183			2740		7.80	27.47
Total Tetra-Furans				0.86	10.183			958		0.203	9.57
1st Func. Penta-Furans				0.86	10.183			85.0		0.142	8.50
Total Penta-Furans				0.86	10.183			775		1.12	77.6
Total Hexa-Furans				1.72	10.183			1180		2.08	11.80
Total Hepta-Furans				1.16	10.183			1360		1.87	13.60

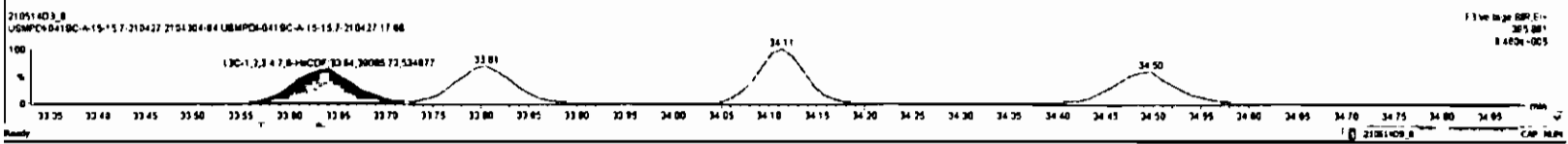
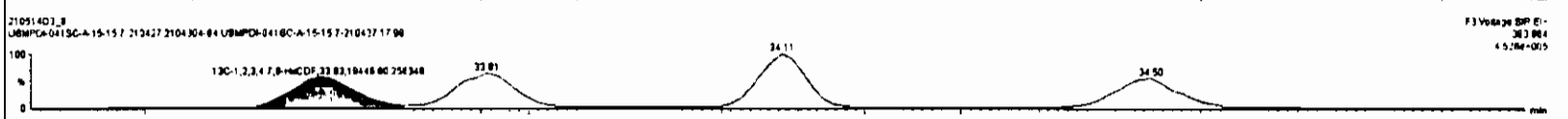
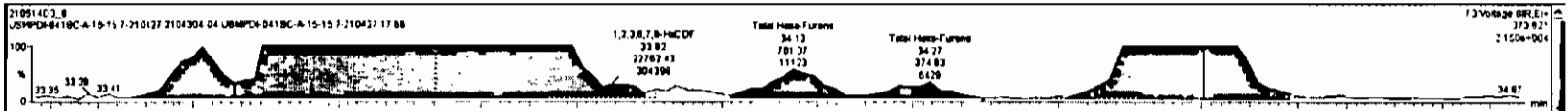
Name	RT	at Ratio	at Ratio	RA	RP	RPV	Conc
1 Total Hexa-Furans	32.26	8.163e3	8.873e3	1.22	NO	45.581	45.581
2 Total Hexa-Furans	32.45	2.982e4	2.438e4	1.23	NO	188.99	188.99
3 Total Hexa-Furans	32.62	8.328e2	4.822e2	1.31	NO	3.4285	3.4285
4 Total Hexa-Furans	32.15	4.748e4	3.828e4	1.24	NO	383.25	383.25
5 Total Hexa-Furans	32.51	1.045e3	8.485e2	1.24	NO	5.8284	5.8284
1,2,3,4,7,8-HxCDF	32.05	8.389e4	6.891e4	1.26	NO	483.82	483.82
1,2,3,6,7,8-HxCDF	32.62	2.278e4	1.835e4	1.24	NO	130.27	130.27
Total Hexa-Furans	34.13	7.044e2	5.879e2	1.22	NO	5.8798	5.8798
Total Hexa-Furans	34.27	3.748e2	2.852e2	1.31	NO	2.8285	2.8285
1,2,3,6,7,8-HxCDF	34.52	5.986e3	4.384e3	1.27	NO	30.817	30.817



File Edit View Display Processing Windows Help

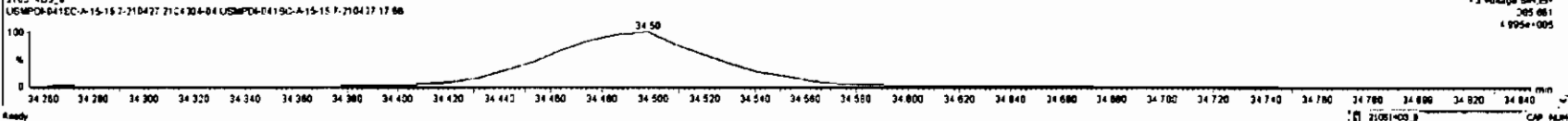
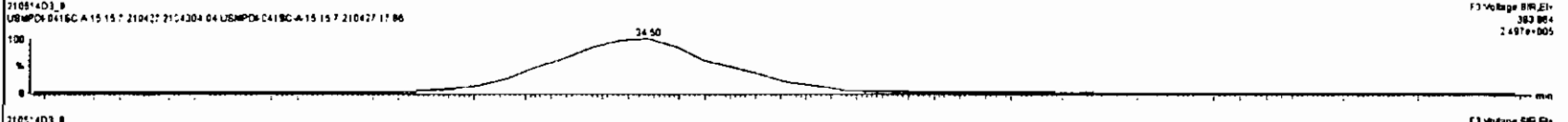
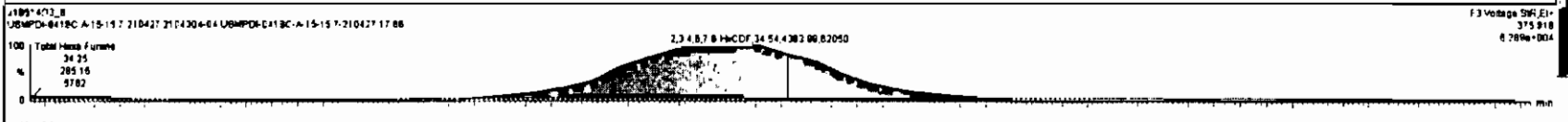
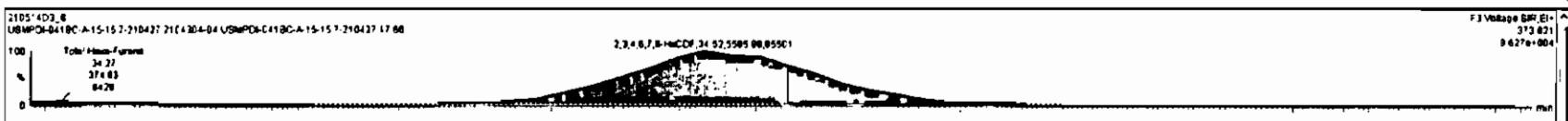
#	Name	Range	PA	NY	RPV	W3M	RT	RPI	Conc.	%Rec	CL	RPV
42	Total Hexa-Furans				1.07	10183			2740	7.88	2740	
43	Total Tetra-Furans				0.86	10183			598	0.303	592	
44	1,4-Furanc-Penta-Furans				0.95	10183			86.0	0.142	86.0	
45	Tetra-Penta-Furans				0.85	10183			775	1.12	776	
46	Total Hexa-Furans				1.12	20183			1160	2.08	1160	
47	Total Tetra-Furans				1.18	10183			1580	1.87	1580	
48	RPV1											

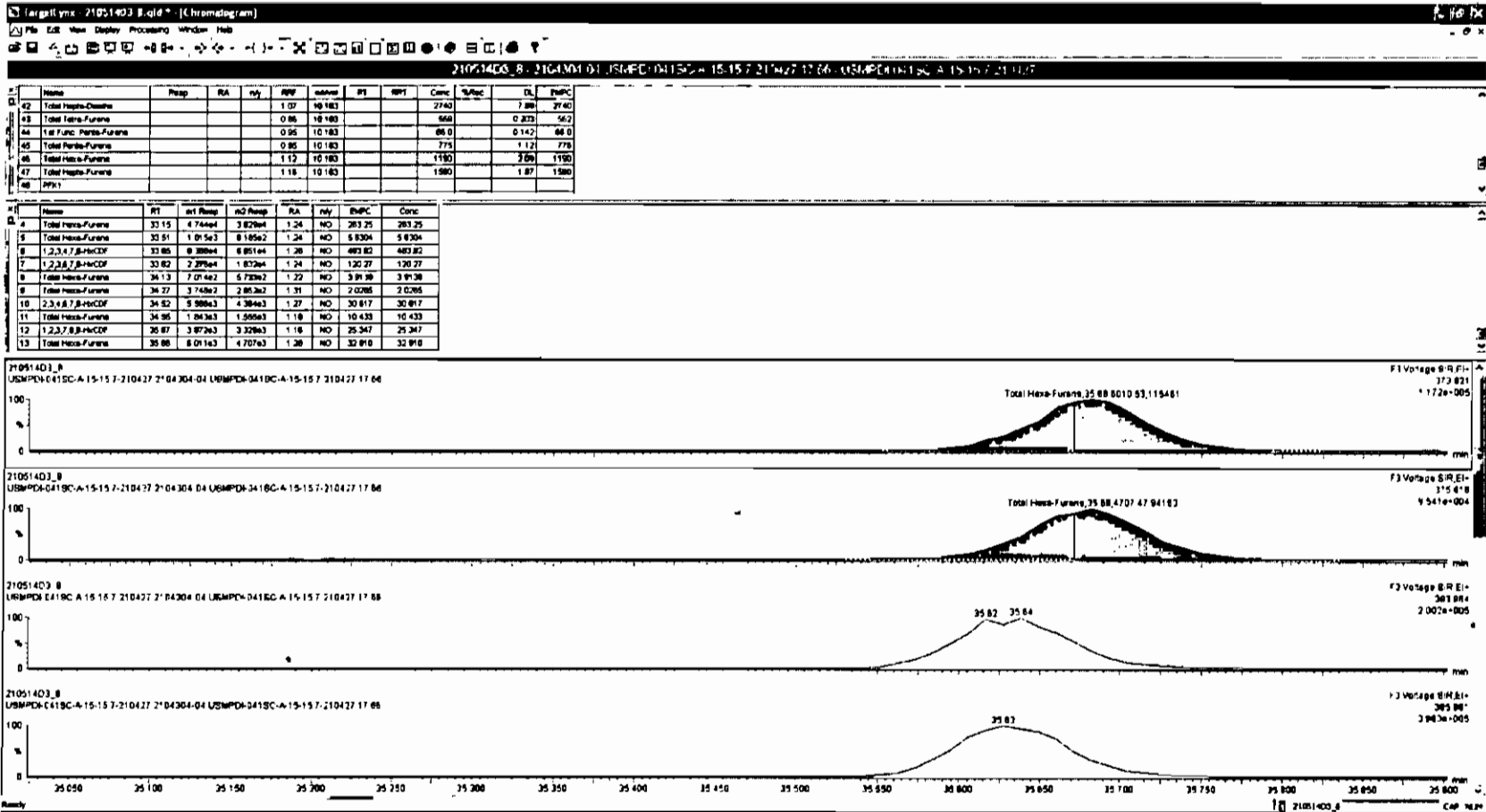
#	Name	RT	Int Range	Ext Range	PA	NY	RPV	Conc.
1	Total Hexa-Furans	32.26	0.16763	0.67363	1.27	NO	45.201	45.201
2	Total Hexa-Furans	32.45	3.78298	7.43644	1.22	NO	188.58	188.58
3	Total Hexa-Furans	32.82	0.52842	4.82762	1.31	NO	3.4296	3.4296
4	Total Hexa-Furans	33.16	4.74464	3.82964	1.24	NO	363.25	363.25
5	Total Hexa-Furans	33.51	1.01562	0.18662	1.26	NO	6.4304	6.4304
6	1,2,3,4,7,8-HxCDF	33.88	0.38864	0.88164	1.28	NO	483.82	483.82
7	1,2,3,4,7,8-HxCDF	33.82	2.27864	1.83364	1.26	NO	120.27	120.27
8	Total Hexa-Furans	34.13	7.81462	5.73362	1.22	NO	3.9138	3.9138
9	Total Hexa-Furans	34.27	3.74862	3.85362	1.31	NO	7.8286	7.8286
10	2,3,4,6,7,8-HxCDF	34.52	5.58863	4.26463	1.27	NO	30.811	30.811



RT	Area	Height	Width	Conc	%Area	DA	EMPC
42	Total Histo-Furans	1.07	10.183	7740	7.88	2740	
43	Total Histo-Furans	0.88	10.183	880	0.203	982	
44	1st Func. Histo-Furans	0.36	10.183	88.0	0.142	86.0	
45	Total Histo-Furans	0.36	10.183	775	1.12	776	
46	Total Histo-Furans	1.12	10.183	1180	2.08	1180	
47	Total Histo-Furans	1.14	10.183	1580	1.87	1580	
48	PK1						

RT	Area	Height	Width	Conc	%Area	DA	EMPC
4	Total Histo-Furans	33.15	4.746e4	3.823e4	1.24	NO	363.25
5	Total Histo-Furans	33.51	1.015e3	8.186e2	1.24	NO	5.8304
6	1,2,3,4,7,8-HisCDF	33.85	8.585e4	6.851e4	1.28	NO	483.82
7	1,2,3,6,7,8-HisCDF	33.82	2.276e4	1.832e4	1.24	NO	120.27
8	Total Histo-Furans	34.13	7.014e2	5.733e2	1.22	NO	3.8138
9	Total Histo-Furans	34.27	3.748e2	2.852e2	1.31	NO	2.0285
10	1,2,3,6,7,8-HisCDF	34.62	5.988e3	4.386e3	1.27	NO	30.817
11	Total Histo-Furans	34.86	1.843e3	1.555e3	1.18	NO	18.433
12	1,2,3,7,8-HisCDF	35.87	3.872e3	3.328e3	1.18	NO	25.347
13	Total Histo-Furans	35.88	8.011e3	4.707e3	1.28	NO	32.910



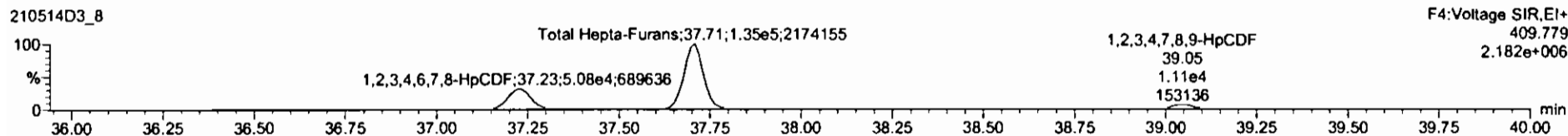
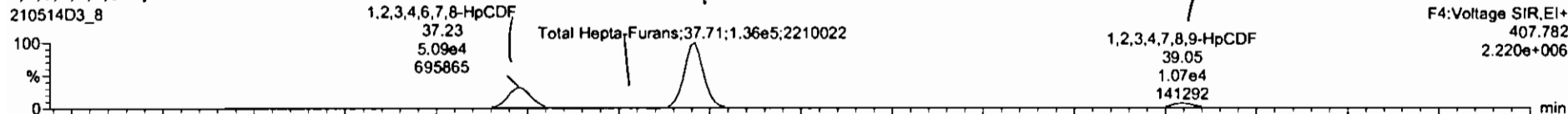


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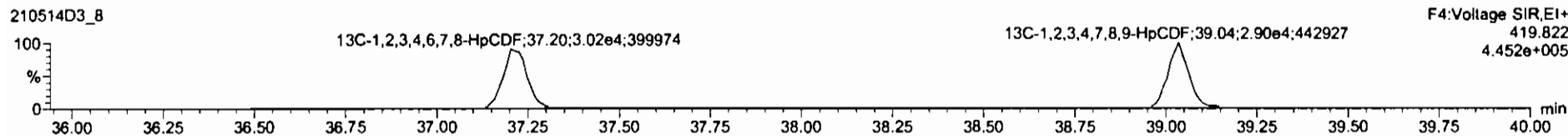
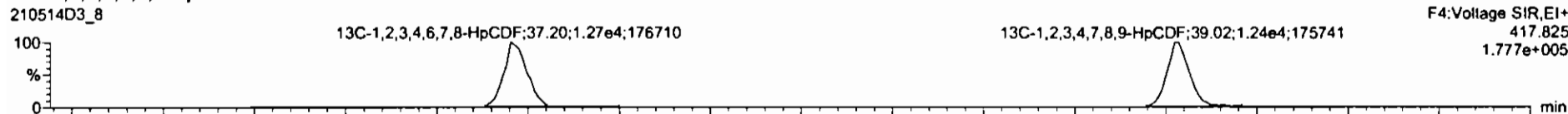
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Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

Name: 210514D3\_8, Date: 14-May-2021, Time: 21:17:40, ID: 2104304-04 USMPDI-041SC-A-15-15.7-210427 17.66, Description: USMPDI-041SC-A-15-15.7-210427

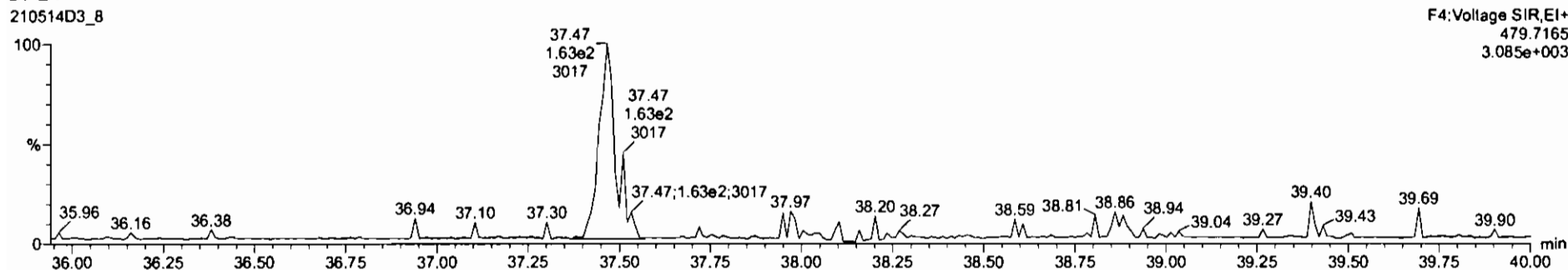
1,2,3,4,6,7,8-HpCDF



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



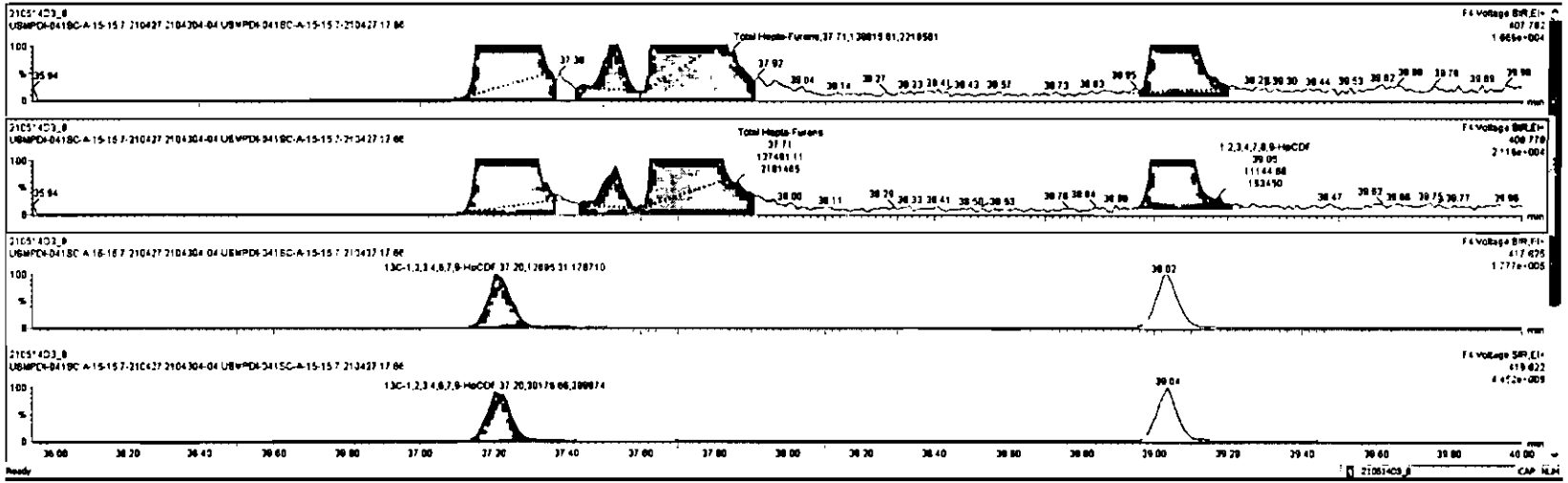
DPE4





Name	Flag	RA	RY	RF	MSMS	RT	PKT	Conc	Units	DL	EMPC
Total Hepta-Furans								2740		7.89	2740
Total Tetra-Furans								599		8.203	592
Total Furans								66.0		8.147	66.0
Total Hepta-Furans								775		1.12	778
Total Hepta-Furans								1190		2.08	1190
Total Hepta-Furans								1620		1.87	1620
PKT1											

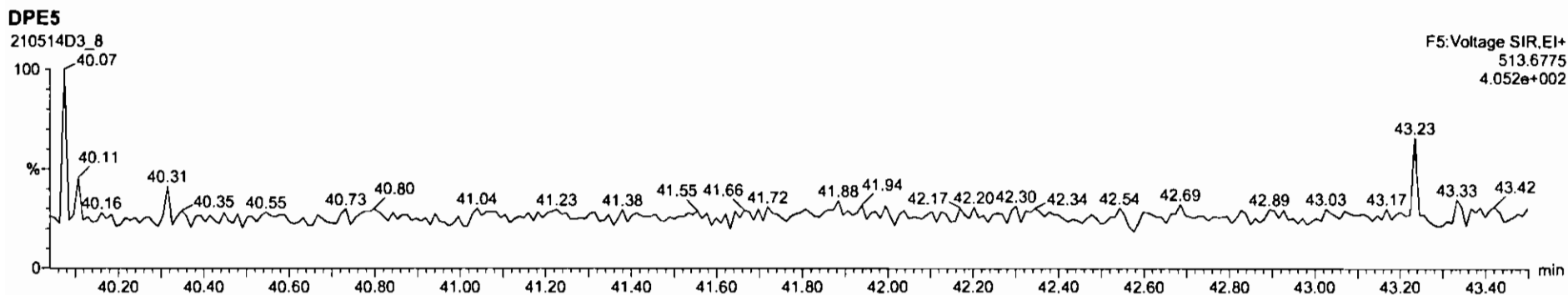
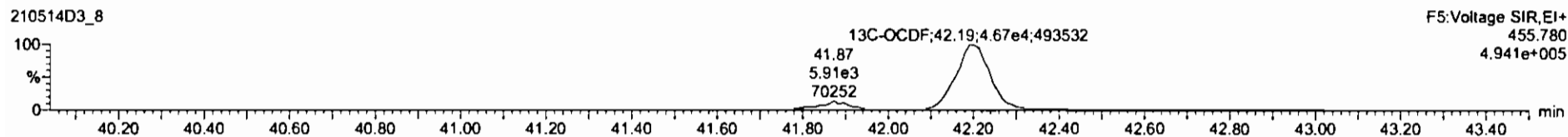
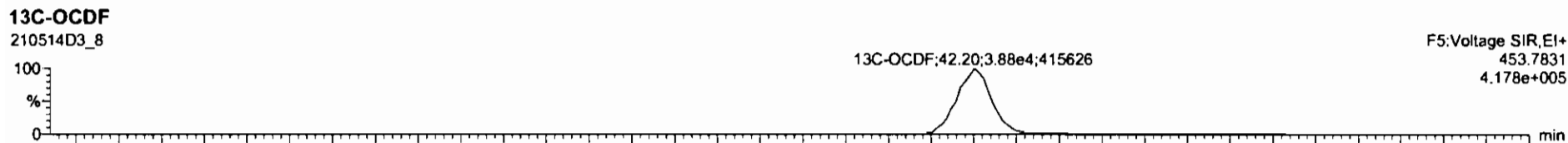
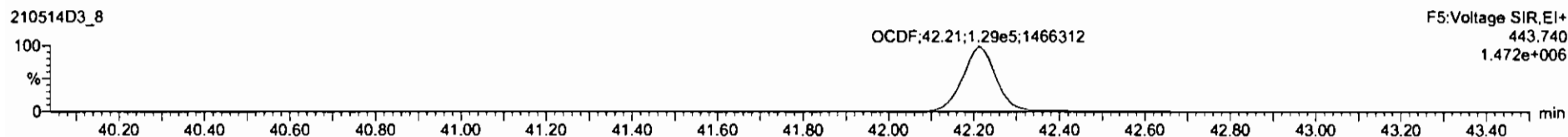
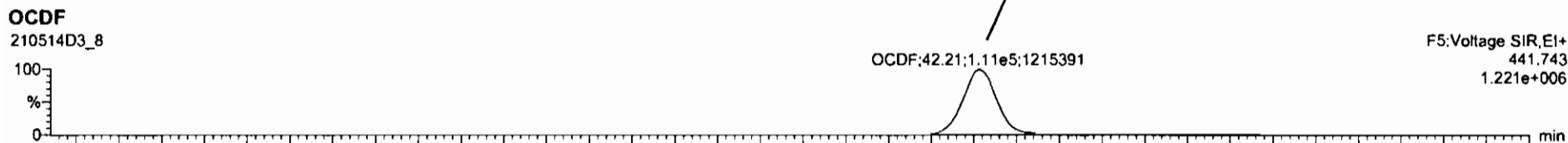
Name	RT	Int. Flag	MS Flag	RA	RY	EMPC	Conc
1,2,3,4,8,9-HxCDF	37.25	1.20964	1.12294	1.01	NO	408.21	408.21
Total Hepta-Furans	37.71	1.20964	1.37565	1.01	NO	1108.9	1108.9
1,2,3,4,7,8-HxCDF	38.08	1.10564	1.11464	0.99	NO	89.919	89.919



Dataset: Untitled

Last Altered: Saturday, May 15, 2021 08:34:47 Pacific Daylight Time  
Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

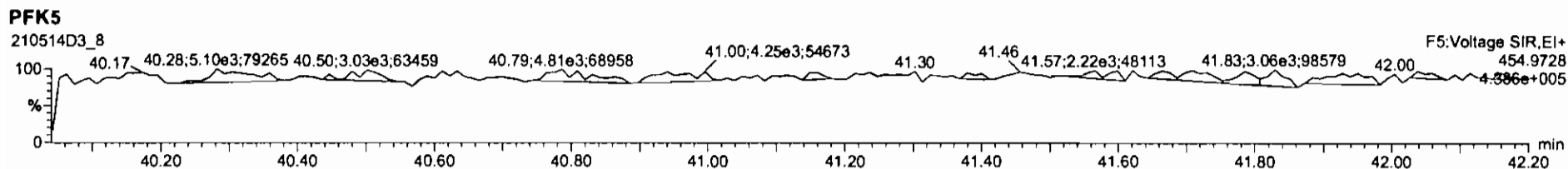
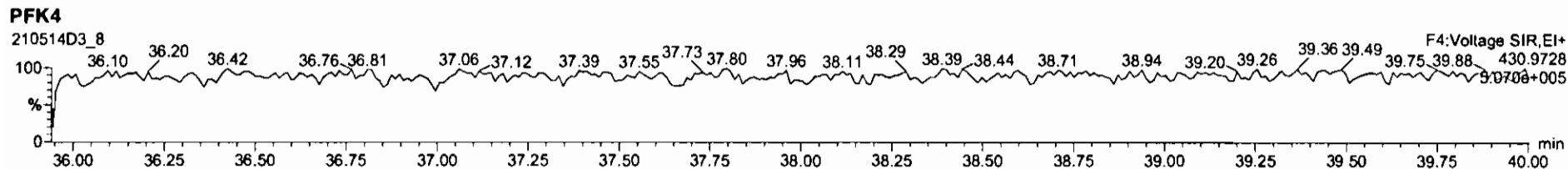
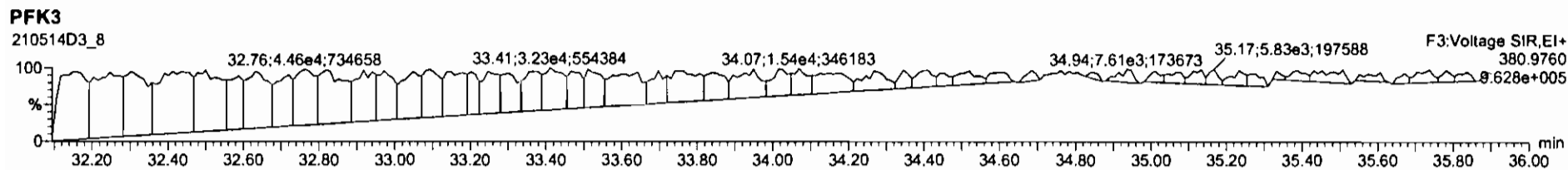
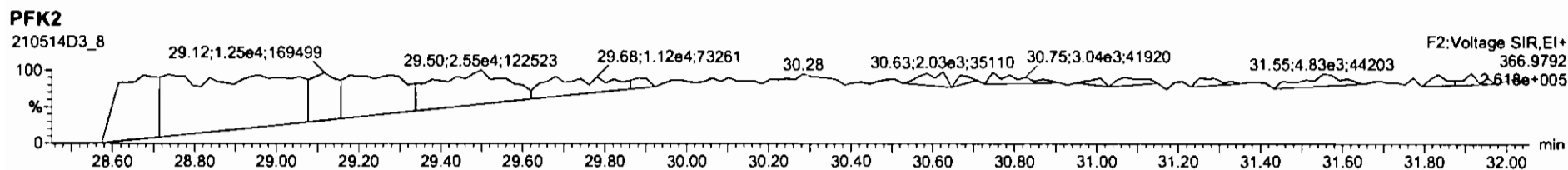
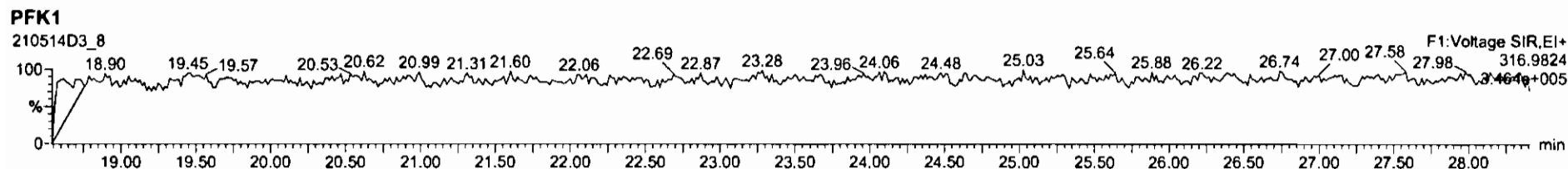
Name: 210514D3\_8, Date: 14-May-2021, Time: 21:17:40, ID: 2104304-04 USMPDI-041SC-A-15-15.7-210427 17.66, Description: USMPDI-041SC-A-15-15.7-210427



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Last Altered: Saturday, May 15, 2021 08:34:47 Pacific Daylight Time  
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Name: 210514D3\_8, Date: 14-May-2021, Time: 21:17:40, ID: 2104304-04 USMPDI-041SC-A-15-15.7-210427 17.66, Description: USMPDI-041SC-A-15-15.7-210427



Dataset: U:\VG7.PRO\Results\210517D2\210517D2-13.qld

Last Altered: Tuesday, May 25, 2021 12:37:28 Pacific Daylight Time  
Printed: Tuesday, June 01, 2021 17:26:31 Pacific Daylight Time

*HL 6.1.2021* *CT 06/02/2021*

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07  
Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210517D2\_13, Date: 17-May-2021, Time: 23:08:30, ID: 2104304-04@5X USMPDI-041SC-A-15-15.7-210427 17.66, Description: USMPDI-041SC-A-15-15.7-210427,  
Task: ST210517D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	OCDD	7.95e5	0.89	NO	1.00	10.183	41.93	1.000	23503		18.1	23500
2	13C-OCDD	1.33e4	0.86	NO	0.451	10.183	41.91	1.232	346.82	88.3	2.99	
3	13C-1,2,3,4,6,9-HxCDF	1.66e4	0.55	NO	1.00	10.183	34.03	1.000	196.40	100	2.64	

Dataset: U:\VG7.PRO\Results\210517D2\210517D2-13.qld

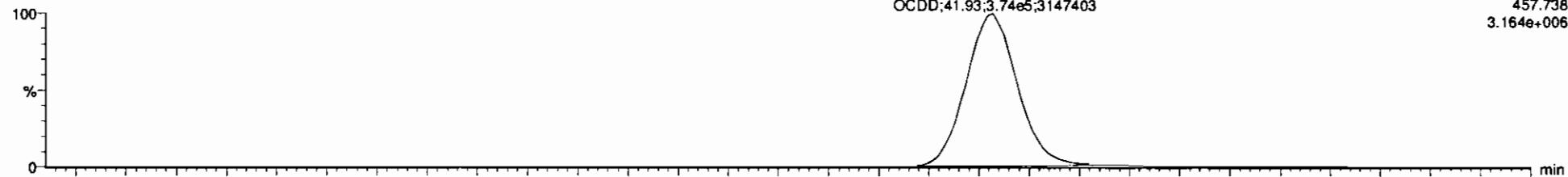
Last Altered: Tuesday, May 25, 2021 12:37:28 Pacific Daylight Time

Printed: Tuesday, May 25, 2021 12:37:46 Pacific Daylight Time

Name: 210517D2\_13, Date: 17-May-2021, Time: 23:08:30, ID: 2104304-04@5X USMPDI-041SC-A-15-15.7-210427 17.66, Description: USMPDI-041SC-A-15-15.7-210427

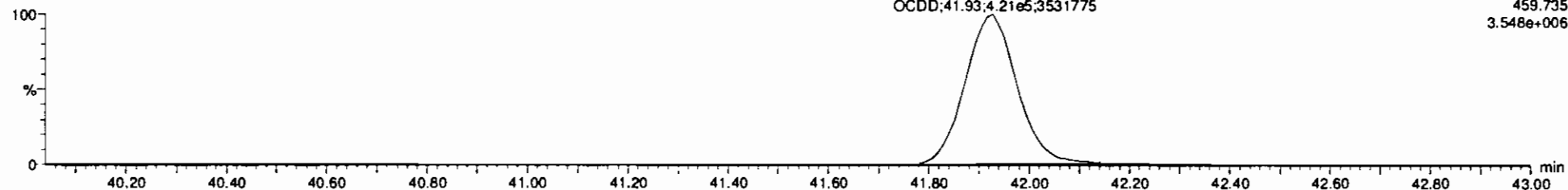
**OCDD**

210517D2\_13



F5:Voltage SIR,EI+  
457.738  
3.164e+006

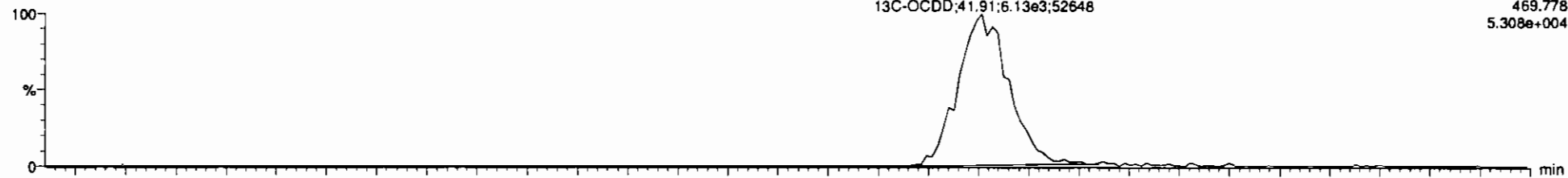
210517D2\_13



F5:Voltage SIR,EI+  
459.735  
3.548e+006

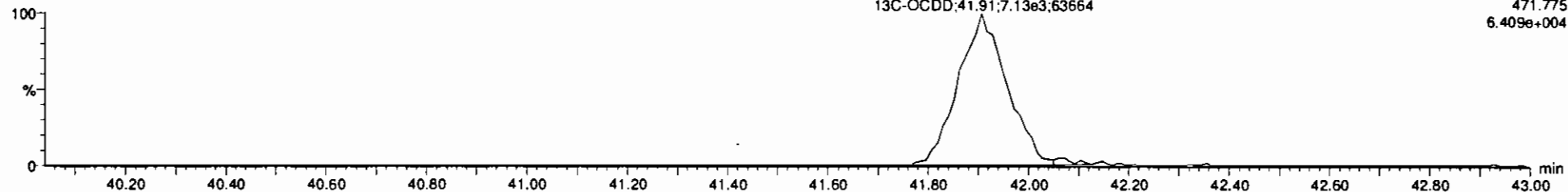
**13C-OCDD**

210517D2\_13



F5:Voltage SIR,EI+  
469.778  
5.308e+004

210517D2\_13



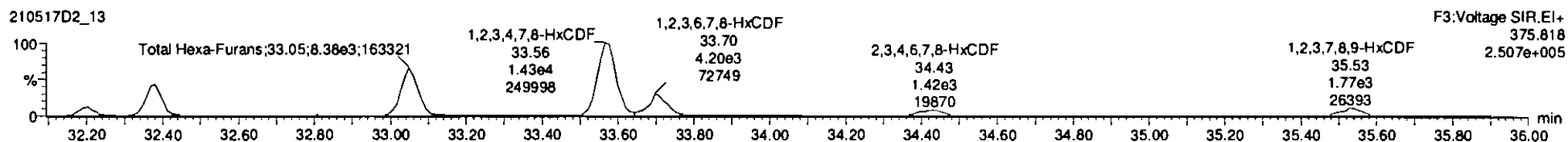
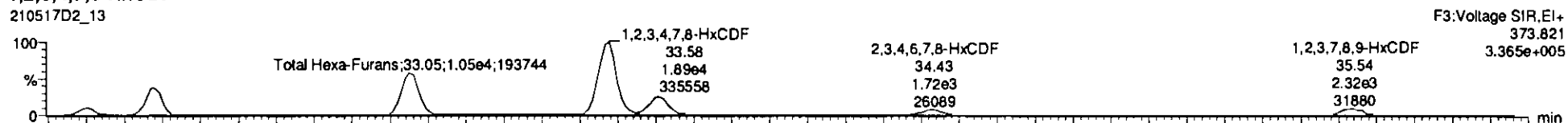
F5:Voltage SIR,EI+  
471.775  
6.409e+004

Dataset: U:\VG7.PRO\Results\210517D2\210517D2-13.qld

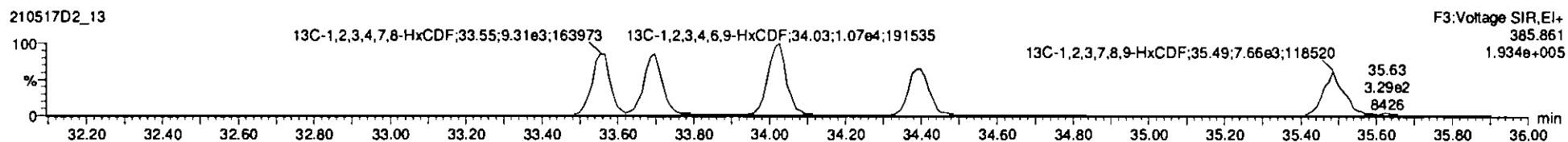
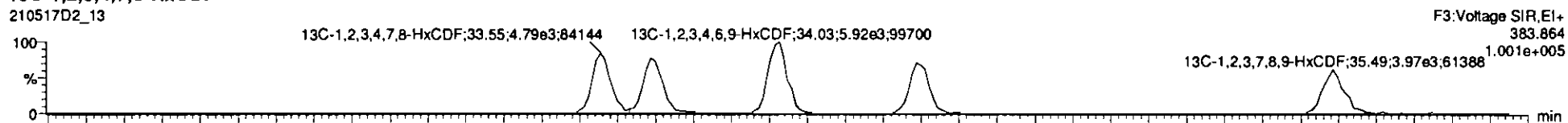
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Name: 210517D2\_13, Date: 17-May-2021, Time: 23:08:30, ID: 2104304-04@5X USMPDI-041SC-A-15-15.7-210427 17.66, Description: USMPDI-041SC-A-15-15.7-210427

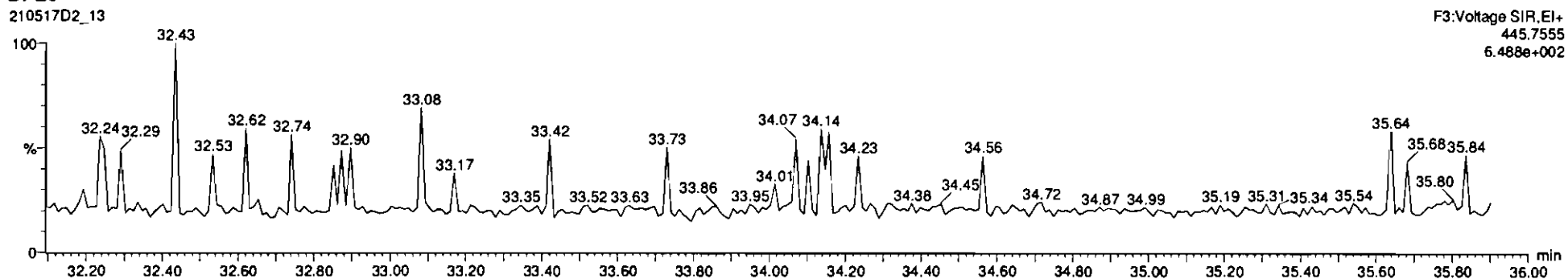
### 1,2,3,4,7,8-HxCDF



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



### DPE3



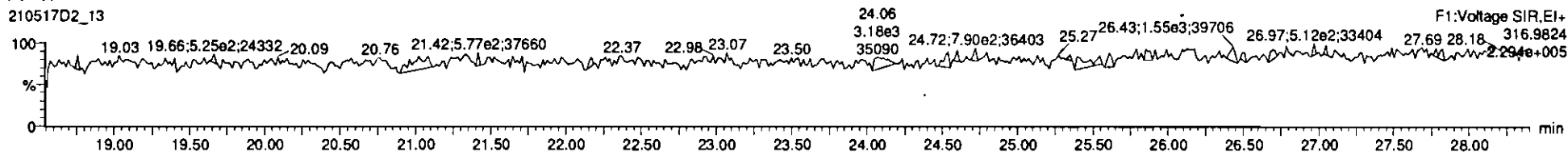
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Last Altered: Tuesday, May 25, 2021 12:37:28 Pacific Daylight Time

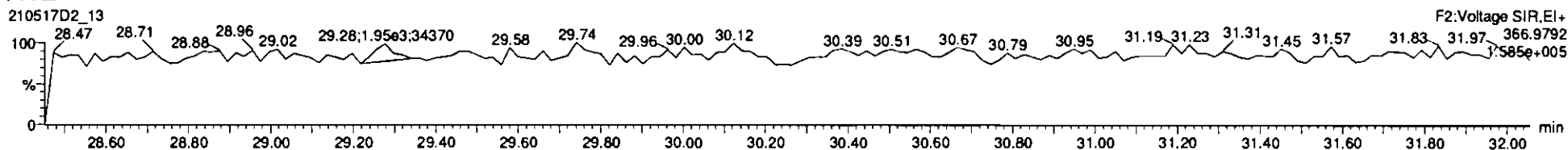
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Name: 210517D2\_13, Date: 17-May-2021, Time: 23:08:30, ID: 2104304-04@5X USMPDI-041SC-A-15-15.7-210427 17.66, Description: USMPDI-041SC-A-15-15.7-210427

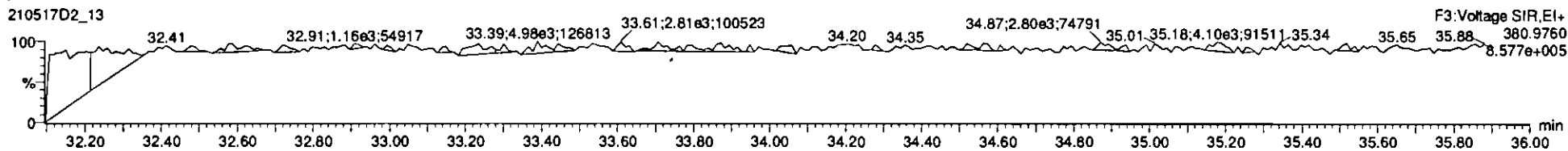
PFK1



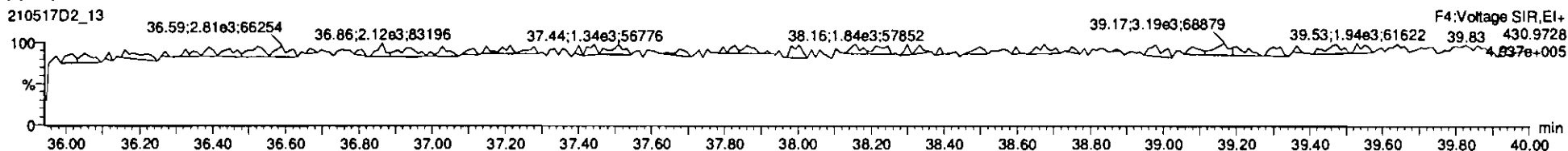
PFK2



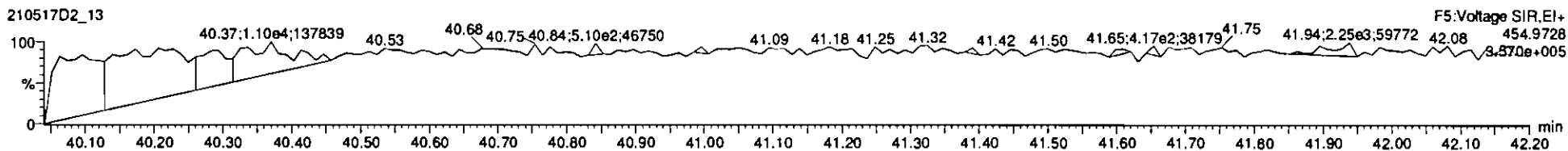
PFK3



PFK4



PFK5



## **CONTINUING CALIBRATION**



**HRMS CALIBRATION STANDARDS REVIEW CHECKLIST**

**Beg. Calibration ID:** ST210514037

**Reviewed By:** DFOS/15/21  
*Initials & Date*

**End Calibration ID:** NA

	<u>Beg.</u>	<u>End</u>
<b>Ion abundance within QC limits?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 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>HL</u>	<u>HL</u>
<b>Run Log:</b>		
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> Y	N
- Bottle position verified?		<u>HL</u>

**Mass resolution ≥**

5k    6-8K    8K    10K  
 1614   1699   429   1613/1668/8280

**Intergrated peaks display correctly?**       NA

**GC Break <20%**    NA

**8280 CS1 End Standard:**

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours    NA

**Comments:**  
 ⓐ instrument paused overnight, end calibration processed following day

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-1.qld

Last Altered: Saturday, May 15, 2021 15:22:31 Pacific Daylight Time

Printed: Saturday, May 15, 2021 15:23:16 Pacific Daylight Time

*Handwritten:*  
M.S. 15.2021  
DF 05/15/21  
05/15/21

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07  
Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210514D3\_1, Date: 14-May-2021, Time: 15:49:44, ID: ST210514D3-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	Fluor	IS Resp	RA	ry	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	5.78e3	5.59e4	0.79	NO	1.05	27.02	27.01	NO	1.001	1.001	9.8784	98.8	NO
2	1,2,3,7,8-PeCDD	1.60e4	3.43e4	0.58	NO	0.881	31.17	31.17	NO	1.001	1.001	53.038	106	NO
3	1,2,3,4,7,8-HxCDD	1.50e4	2.68e4	1.25	NO	1.14	34.60	34.61	NO	1.000	1.001	49.016	98.0	NO
4	1,2,3,6,7,8-HxCDD	1.49e4	2.96e4	1.24	NO	1.01	34.75	34.76	NO	1.000	1.001	49.569	99.1	NO
5	1,2,3,7,8,9-HxCDD	1.48e4	2.93e4	1.33	NO	1.02	35.07	35.07	NO	1.001	1.001	49.420	98.8	NO
6	1,2,3,4,6,7,8-HpCDD	1.19e4	2.35e4	1.03	NO	1.07	38.48	38.48	NO	1.000	1.000	47.770	95.5	NO
7	OCDD	1.83e4	3.64e4	0.92	NO	1.00	42.25	42.24	NO	1.000	1.000	100.54	101	NO
8	2,3,7,8-TCDF	7.98e3	9.83e4	0.79	NO	0.864	26.44	26.43	NO	1.001	1.001	9.4031	94.0	NO
9	1,2,3,7,8-PeCDF	3.10e4	6.15e4	1.65	NO	0.948	30.04	30.04	NO	1.001	1.001	53.249	106	NO
10	2,3,4,7,8-PeCDF	3.11e4	5.83e4	1.64	NO	1.04	31.02	30.99	NO	1.001	1.000	51.503	103	NO
11	1,2,3,4,7,8-HxCDF	2.40e4	4.73e4	1.24	NO	1.04	33.64	33.63	NO	1.001	1.001	48.589	97.2	NO
12	1,2,3,6,7,8-HxCDF	2.45e4	4.64e4	1.25	NO	1.07	33.78	33.78	NO	1.000	1.000	49.123	98.2	NO
13	2,3,4,6,7,8-HxCDF	2.28e4	4.14e4	1.26	NO	1.12	34.47	34.49	NO	1.000	1.001	49.343	98.7	NO
14	1,2,3,7,8,9-HxCDF	1.96e4	3.78e4	1.26	NO	1.10	35.62	35.64	NO	1.000	1.001	47.168	94.3	NO
15	1,2,3,4,6,7,8-HpCDF	1.81e4	3.14e4	1.03	NO	1.16	37.31	37.28	NO	1.001	1.000	49.783	99.6	NO
16	1,2,3,4,7,8,9-HpCDF	1.53e4	2.62e4	1.03	NO	1.19	39.18	39.19	NO	1.000	1.000	49.381	98.8	NO
17	OCDF	2.35e4	5.36e4	0.90	NO	0.909	42.63	42.69	NO	1.000	1.001	96.550	96.6	NO
18	13C-2,3,7,8-TCDD	5.59e4	5.05e4	0.76	NO	1.15	26.98	27.00	NO	1.024	1.025	96.623	96.6	NO
19	13C-1,2,3,7,8-PeCDD	3.43e4	5.05e4	0.57	NO	0.887	31.12	31.15	NO	1.181	1.183	76.619	76.6	NO
20	13C-1,2,3,4,7,8-HxCDD	2.68e4	4.80e4	1.22	NO	0.645	34.61	34.58	NO	1.014	1.013	86.682	86.7	NO
21	13C-1,2,3,6,7,8-HxCDD	2.96e4	4.80e4	1.20	NO	0.717	34.73	34.74	NO	1.018	1.018	86.229	86.2	NO
22	13C-1,2,3,7,8,9-HxCDD	2.93e4	4.80e4	1.30	NO	0.714	35.04	35.05	NO	1.027	1.027	85.670	85.7	NO
23	13C-1,2,3,4,6,7,8-HpCDD	2.35e4	4.80e4	1.05	NO	0.583	38.39	38.47	NO	1.125	1.127	83.916	83.9	NO
24	13C-OCDD	3.64e4	4.80e4	0.88	NO	0.451	41.99	42.25	NO	1.230	1.238	168.22	84.1	NO
25	13C-2,3,7,8-TCDF	9.83e4	9.56e4	0.75	NO	1.09	26.40	26.42	NO	1.002	1.003	94.247	94.2	NO
26	13C-1,2,3,7,8-PeCDF	6.15e4	9.56e4	1.62	NO	0.805	29.99	30.02	NO	1.138	1.140	79.922	79.9	NO
27	13C-2,3,4,7,8-PeCDF	5.83e4	9.56e4	1.59	NO	0.792	30.94	30.99	NO	1.174	1.176	76.964	77.0	NO
28	13C-1,2,3,4,7,8-HxCDF	4.73e4	4.80e4	0.50	NO	0.997	33.63	33.61	NO	0.985	0.985	98.811	98.8	NO
29	13C-1,2,3,6,7,8-HxCDF	4.64e4	4.80e4	0.47	NO	1.03	33.79	33.77	NO	0.990	0.990	94.010	94.0	NO
30	13C-2,3,4,6,7,8-HxCDF	4.14e4	4.80e4	0.48	NO	0.940	34.50	34.47	NO	1.011	1.010	91.906	91.9	NO
31	13C-1,2,3,7,8,9-HxCDF	3.78e4	4.80e4	0.50	NO	0.852	35.61	35.62	NO	1.044	1.044	92.471	92.5	NO

Dataset: U:\VG7.PRO\Results\210514D3\210514D3-1.qld

Last Altered: Saturday, May 15, 2021 15:22:31 Pacific Daylight Time

Printed: Saturday, May 15, 2021 15:23:16 Pacific Daylight Time

Name: 210514D3\_1, Date: 14-May-2021, Time: 15:49:44, ID: ST210514D3-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

Name	Resp	IS Resp	RA	Qty	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%RSD	STD out
32 13C-1,2,3,4,6,7,8-HpCDF	3.14e4	4.80e4	0.42	NO	0.727	37.17	37.27	NO	1.089	1.092	89.924	89.9	NO
33 13C-1,2,3,4,7,8,9-HpCDF	2.62e4	4.80e4	0.43	NO	0.608	39.18	39.18	NO	1.148	1.148	89.702	89.7	NO
34 13C-OCDF	5.36e4	4.80e4	0.82	NO	0.631	42.35	42.63	NO	1.241	1.249	177.23	88.6	NO
35 37Cl-2,3,7,8-TCDD	9.86e3	5.05e4			2.22	26.99	27.01	NO	1.025	1.026	8.8023	88.0	NO
36 13C-1,2,3,4-TCDD	5.05e4	5.05e4	0.79	NO	1.00	26.42	26.34	NO	1.000	1.000	100.00	100	NO
37 13C-1,2,3,4-TCDF	9.56e4	9.56e4	0.76	NO	1.00	25.21	25.10	NO	1.000	1.000	100.00	100	NO
38 13C-1,2,3,4,6,9-HxCDF	4.80e4	4.80e4	0.48	NO	1.00	34.18	34.12	NO	1.000	1.000	100.00	100	NO

Dataset: Untitled

Last Altered: Saturday, May 15, 2021 08:34:47 Pacific Daylight Time  
Printed: Saturday, May 15, 2021 08:35:02 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07  
Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

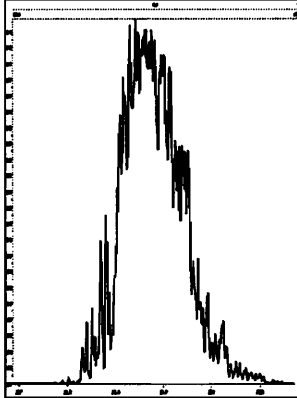
Compound name: 2,3,7,8-TCDD

Name	ID	Acq. Date	Acq. Time
210514D3_1	ST210514D3-1 1613 CS3 21C0105	14-May-21	15:49:44
210514D3_2	B1E0057-BS1 OPR 10	14-May-21	16:38:38
210514D3_3	SOLVENT BLANK	14-May-21	17:24:17
210514D3_4	B1E0057-BLK1 Method Blank 10	14-May-21	18:11:02
210514D3_5	2104304-01 USMPDI-033SC-A-14-15-210427 ...	14-May-21	18:57:42
210514D3_6	2104304-02 USMPDI-033SC-A-15-15.5-21042...	14-May-21	19:44:21
210514D3_7	2104304-03 USMPDI-041SC-A-14-15-210427 ...	14-May-21	20:31:00
210514D3_8	2104304-04 USMPDI-041SC-A-15-15.7-21042...	14-May-21	21:17:40
210514D3_9	2104305-01 USMPDI-007SC-A-04-05-210428 ...	14-May-21	22:04:19
210514D3_10	2104305-02 USMPDI-007SC-A-05-06-210428 ...	14-May-21	22:50:58
210514D3_11	2104305-03 USMPDI-007SC-A-06-07-210428 ...	14-May-21	23:37:43
210514D3_12	2104305-04 USMPDI-007SC-A-07-8.2-210428...	15-May-21	00:24:21
210514D3_13	2104305-05 USMPDI-025SC-A-11-12-210428 ...	15-May-21	01:11:00
210514D3_14	2104305-06 USMPDI-025SC-A-12-13-210428 ...	15-May-21	01:57:44

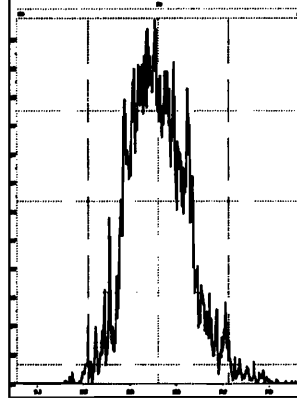
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, May 14, 2021 15:46:19 Pacific Daylight Time

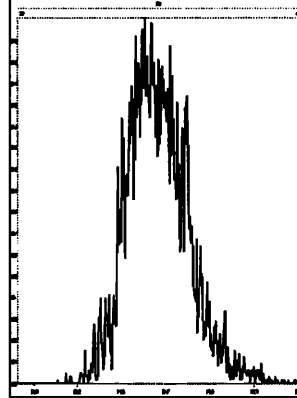
M 292.9824 R 11363



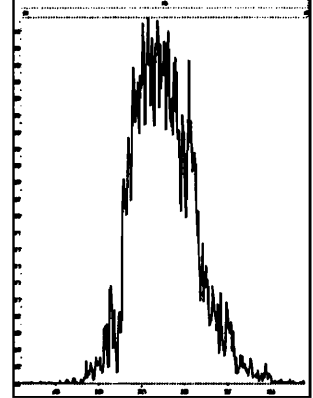
M 304.9824 R 11845



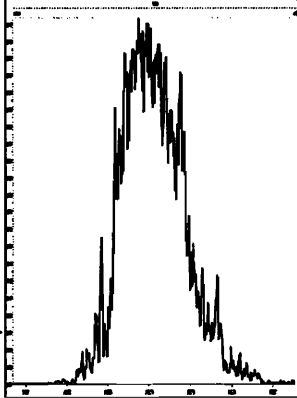
M 318.9792 R 12315



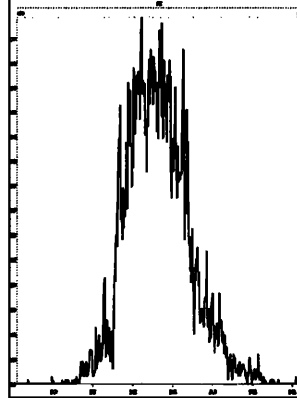
M 330.9792 R 12080



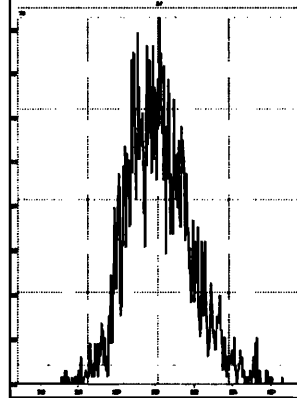
M 342.9792 R 10776



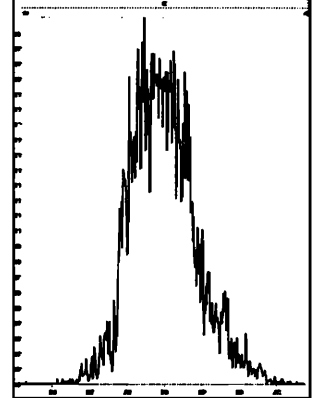
M 354.9792 R 10821



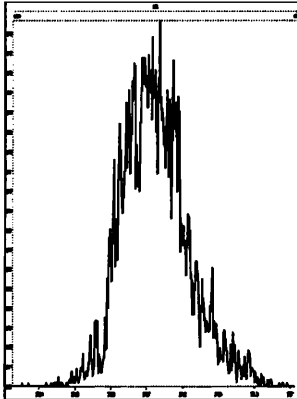
M 366.9792 R 11014



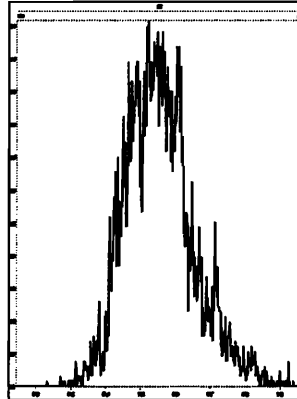
M 380.9760 R 10459



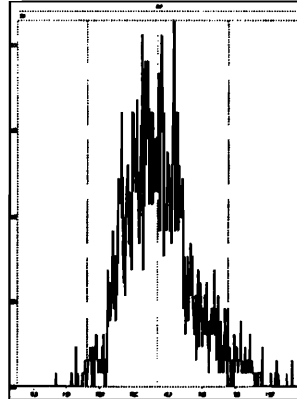
M 392.9760 R 11059



M 404.9760 R 10416



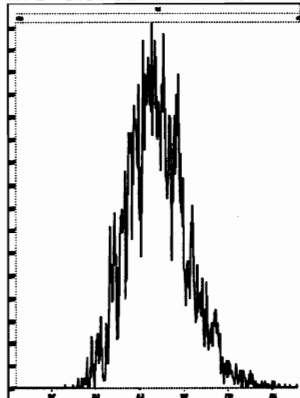
M 416.9760 R 11734



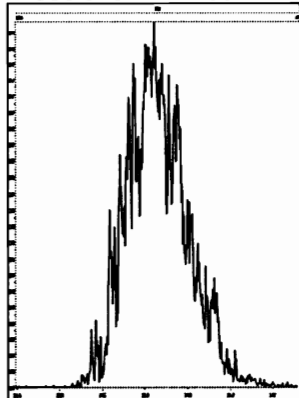
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, May 14, 2021 15:46:41 Pacific Daylight Time

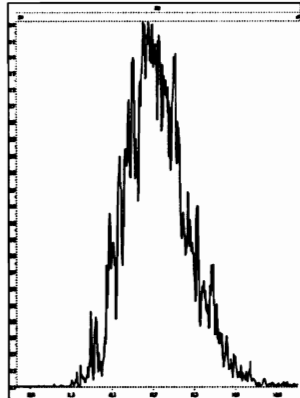
M 318.9792 R 12196



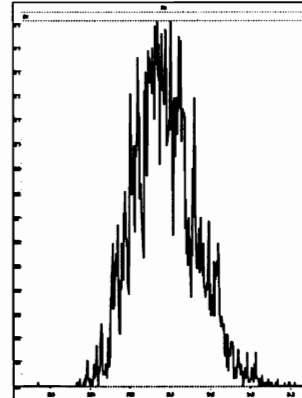
M 330.9792 R 11681



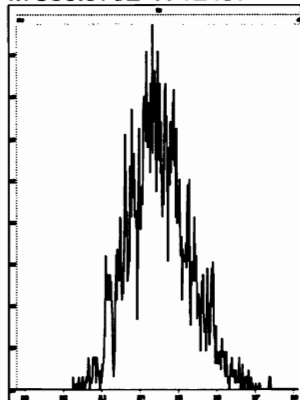
M 342.9792 R 10914



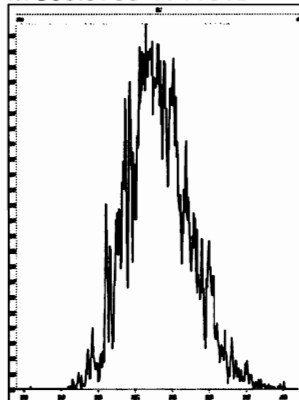
M 354.9792 R 11210



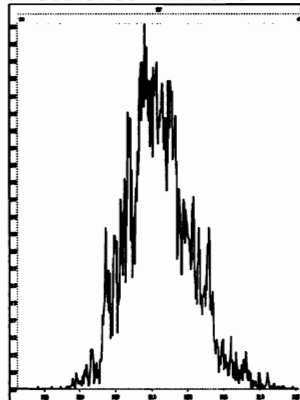
M 366.9792 R 12497



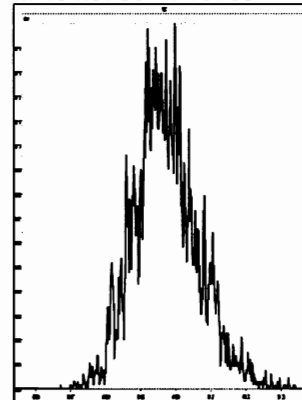
M 380.9760 R 11013



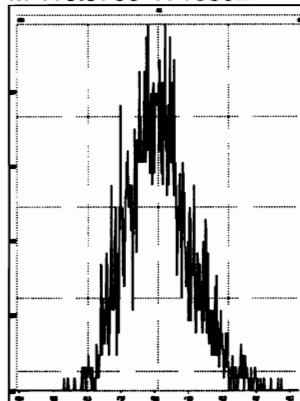
M 392.9760 R 11016



M 404.9760 R 10163



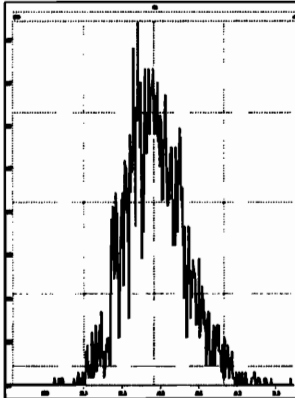
M 416.9760 R 10592



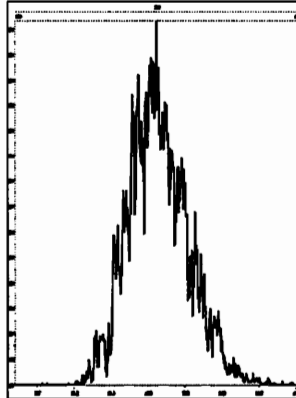
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, May 14, 2021 15:47:13 Pacific Daylight Time

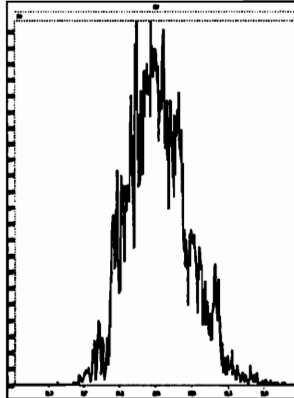
M 366.9792 R 11959



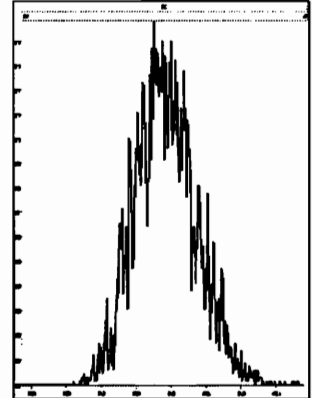
M 380.9760 R 11844



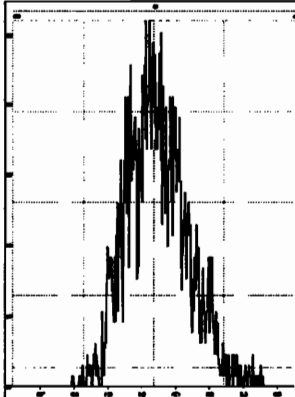
M 392.9760 R 12018



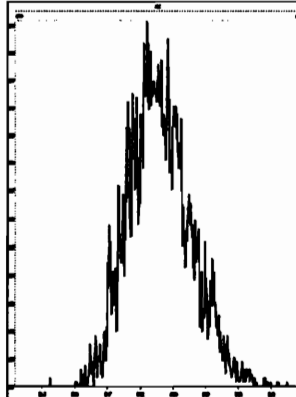
M 404.9760 R 10866



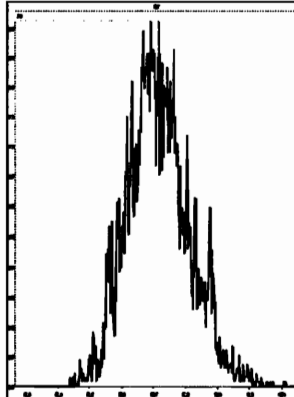
M 416.9760 R 11260



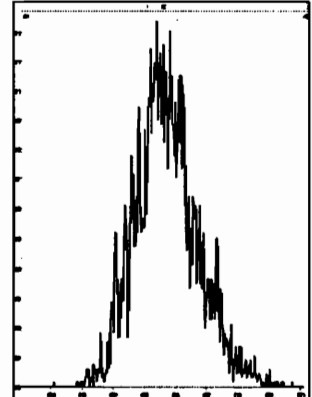
M 430.9728 R 10963



M 442.9728 R 10548



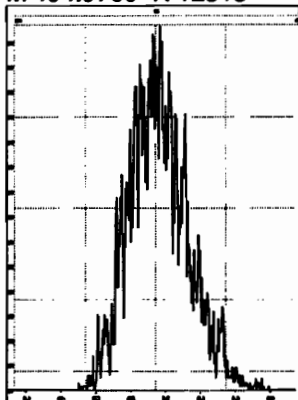
M 454.9728 R 11576



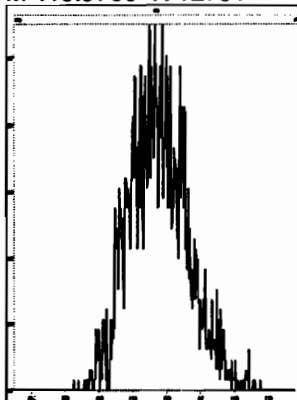
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, May 14, 2021 15:47:44 Pacific Daylight Time

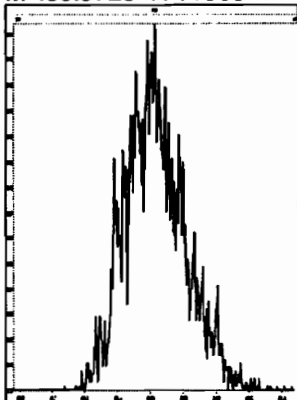
M 404.9760 R 12318



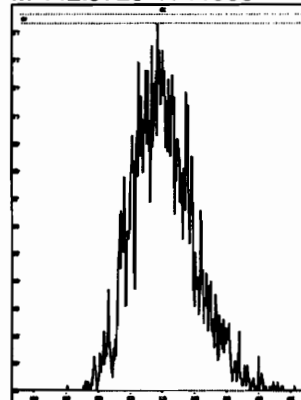
M 416.9760 R 12751



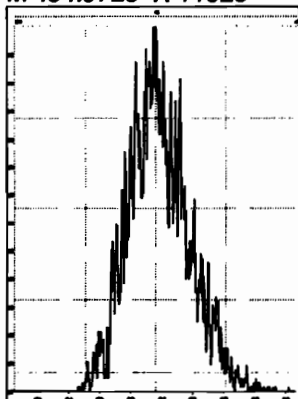
M 430.9728 R 11363



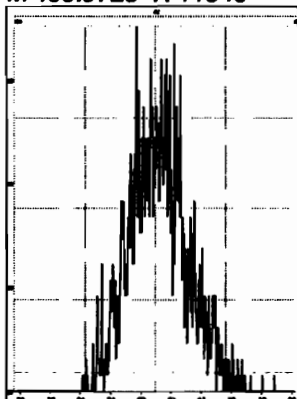
M 442.9728 R 11906



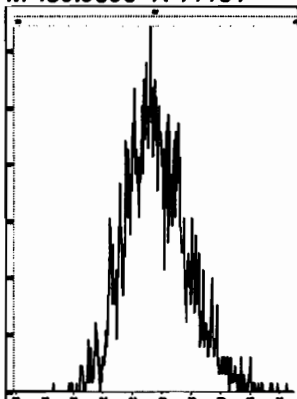
M 454.9728 R 11628



M 466.9728 R 11846



M 480.9696 R 11161

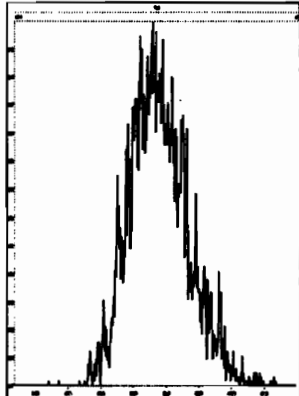




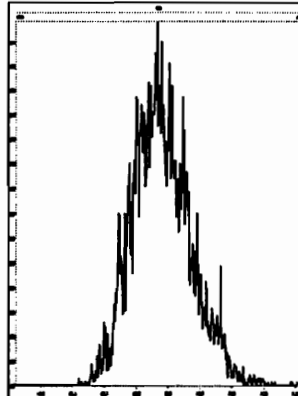
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, May 14, 2021 15:48:19 Pacific Daylight Time

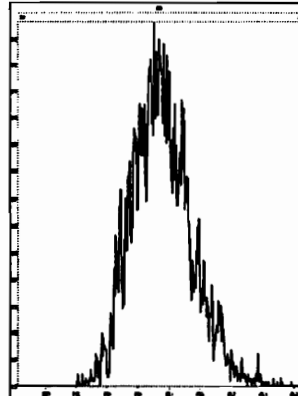
M 430.9728 R 11312



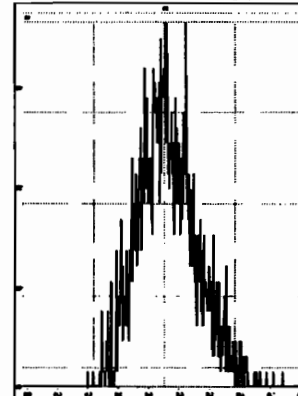
M 442.9728 R 11163



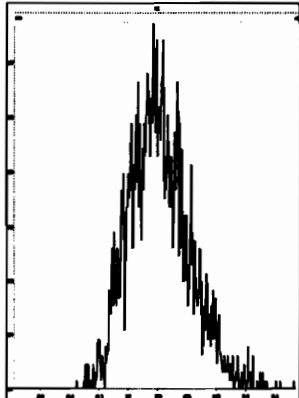
M 454.9728 R 11679



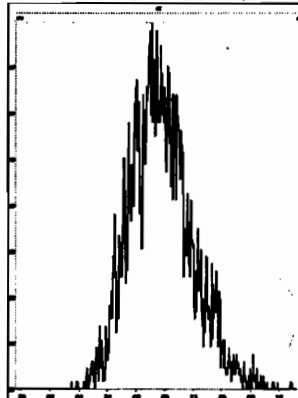
M 466.9728 R 12956



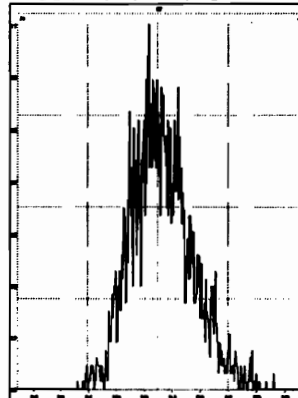
M 480.9696 R 11310



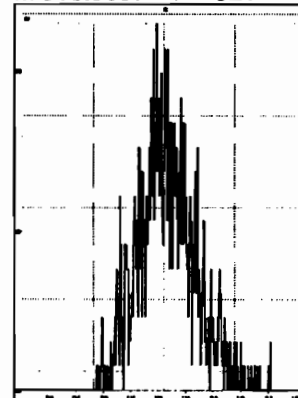
M 492.9696 R 11210



M 504.9696 R 10821



M 516.9697 R 11521



Dataset: Untitled

Last Altered: Saturday, May 15, 2021 08:36:02 Pacific Daylight Time

Printed: Saturday, May 15, 2021 08:36:12 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSM.mdb 06 Apr 2021 11:04:01

Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210514D3\_1, Date: 14-May-2021, Time: 15:49:44, ID: ST210514D3-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1	1,3,6,8-TCDD (First)	23.86
2	1,2,8,9-TCDD (Last)	27.78
3	1,2,4,7,9-PeCDD (First)	29.12
4	1,2,3,8,9-PeCDD (Last)	31.51
5	1,2,4,6,7,9-HxCDD (First)	32.83
6	1,2,3,7,8,9-HxCDD (Last)	35.07
7	1,2,3,4,6,7,9-HpCDD (First)	37.53
8	1,2,3,4,6,7,8-HpCDD (Last)	38.48
9	1,3,6,8-TCDF (First)	21.97
10	1,2,8,9-TCDF (Last)	28.07
11	1,3,4,6,8-PeCDF (First)	27.67
12	1,2,3,8,9-PeCDF (Last)	31.85
13	1,2,3,4,6,8-HxCDF (First)	32.27
14	1,2,3,7,8,9-HxCDF (Last)	35.64
15	1,2,3,4,6,7,8-HpCDF (First)	37.28
16	1,2,3,4,7,8,9-HpCDF (Last)	39.19

Dataset: Untitled

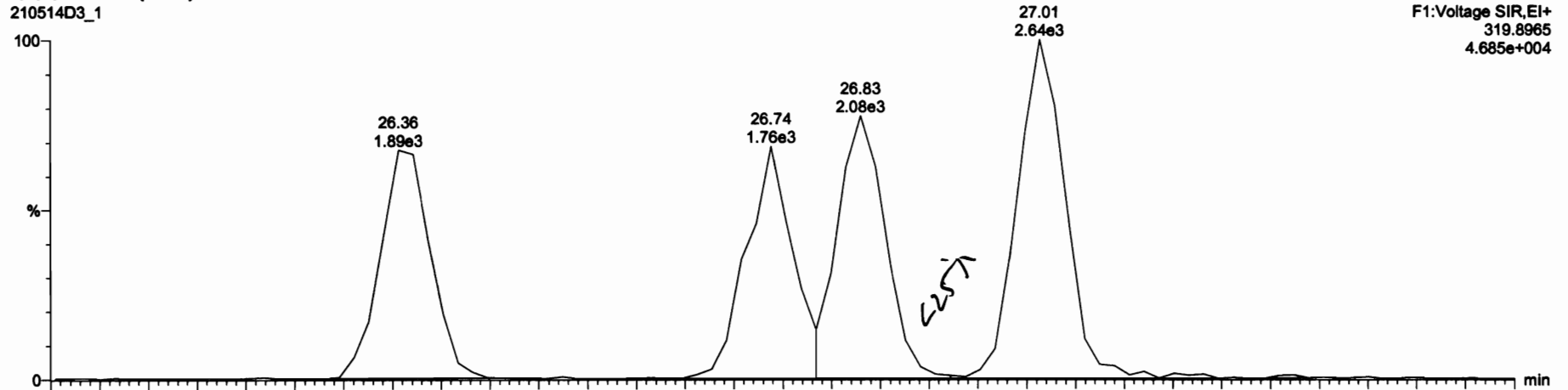
Last Altered: Saturday, May 15, 2021 08:36:02 Pacific Daylight Time  
Printed: Saturday, May 15, 2021 08:36:12 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSM.mdb 06 Apr 2021 11:04:01  
Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

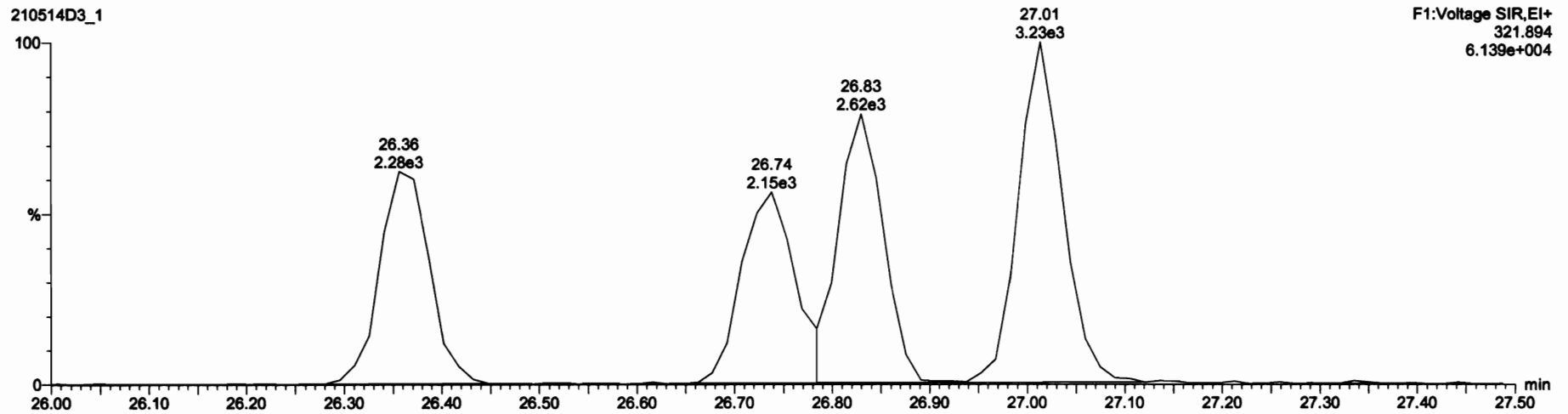
Name: 210514D3\_1, Date: 14-May-2021, Time: 15:49:44, ID: ST210514D3-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

210514D3\_1



210514D3\_1



Dataset: Untitled

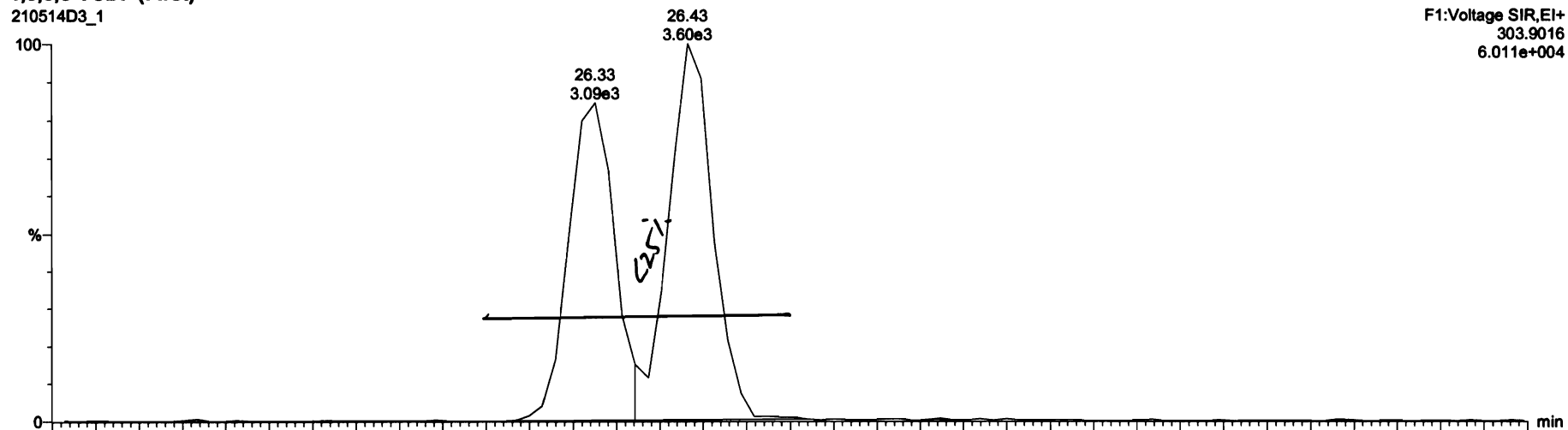
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Printed: Saturday, May 15, 2021 08:36:12 Pacific Daylight Time

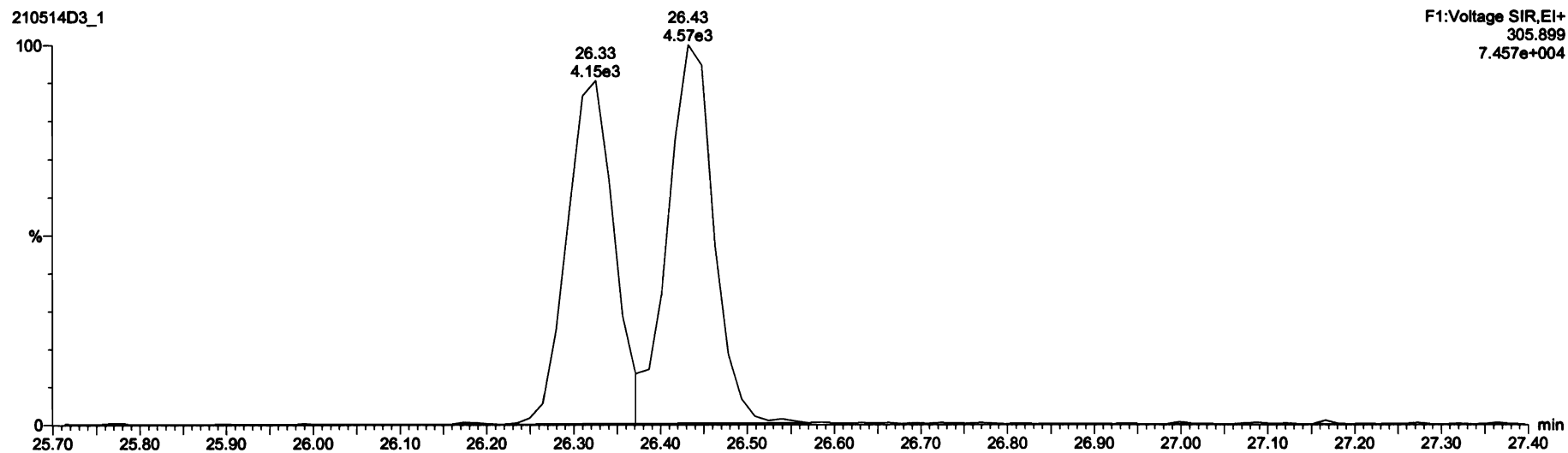
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1,3,6,8-TCDF (First)

210514D3\_1



210514D3\_1



Dataset: Untitled

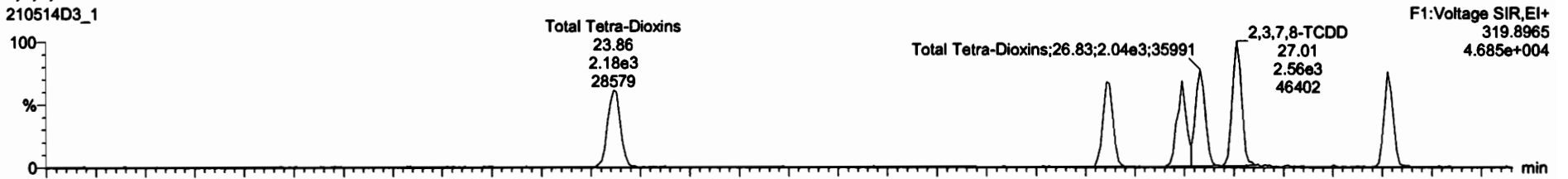
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Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

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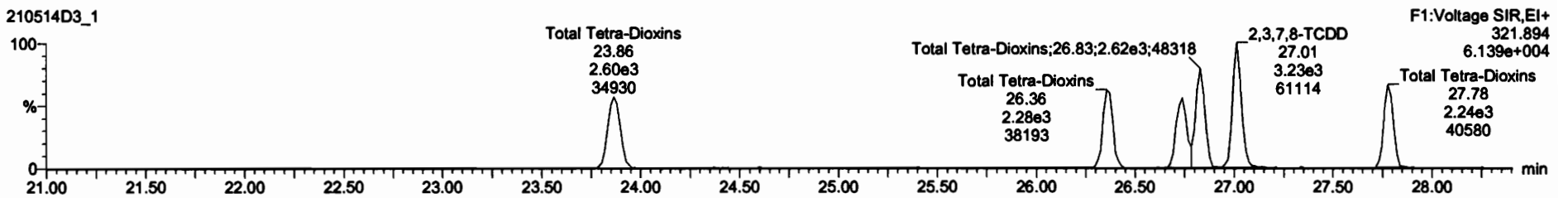
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**2,3,7,8-TCDD**

210514D3\_1



210514D3\_1

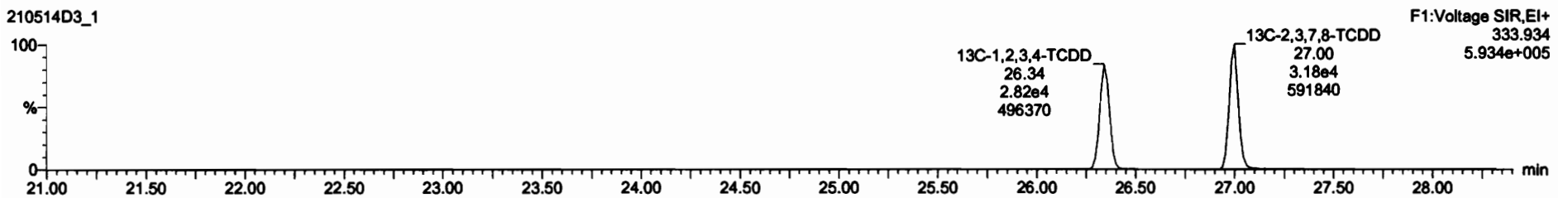


**13C-2,3,7,8-TCDD**

210514D3\_1



210514D3\_1



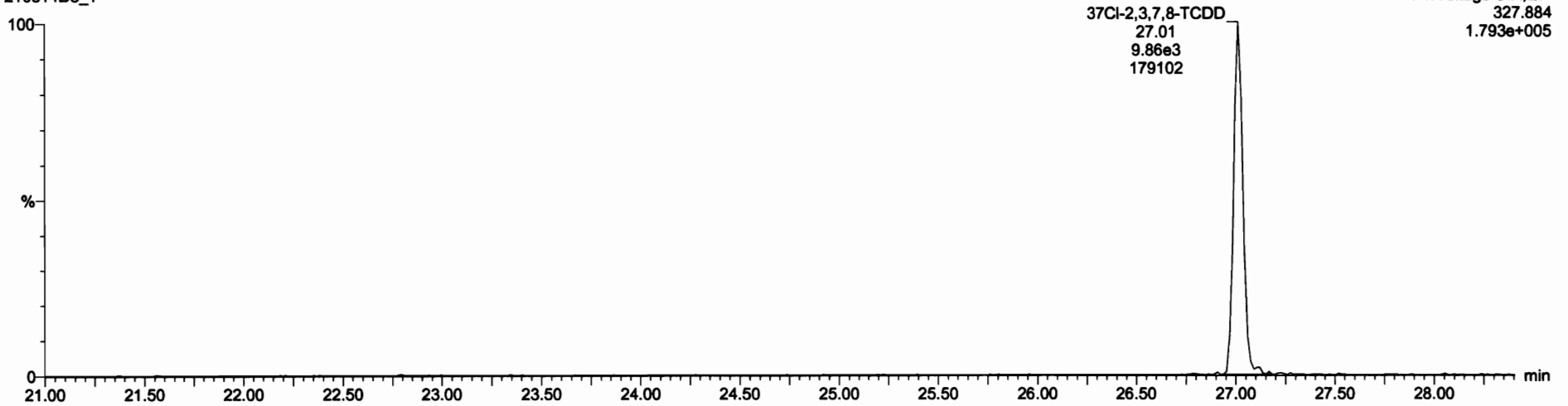
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Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

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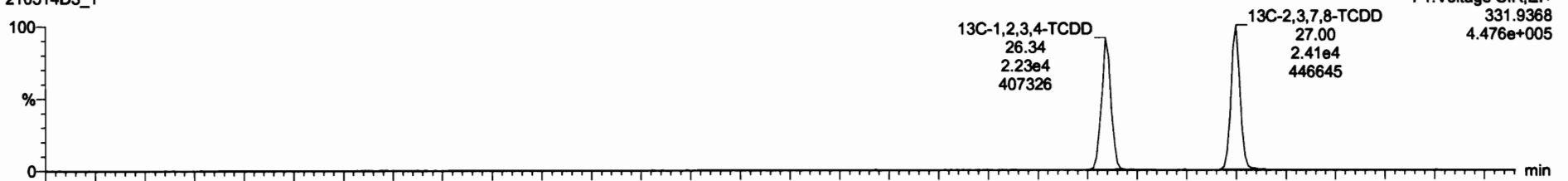
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210514D3\_1

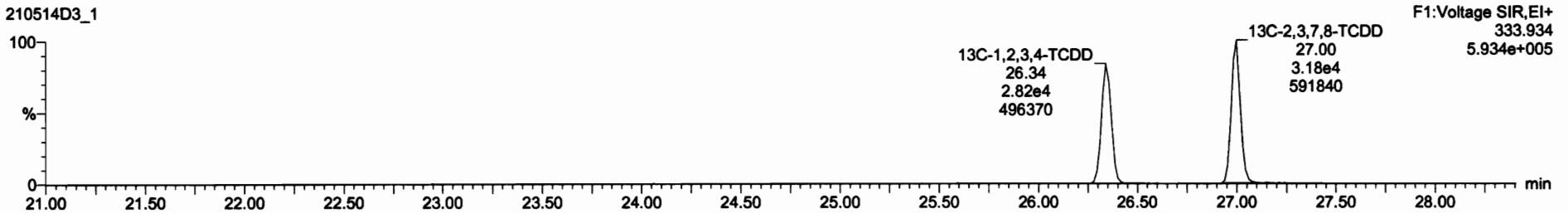


13C-1,2,3,4-TCDD

210514D3\_1



210514D3\_1



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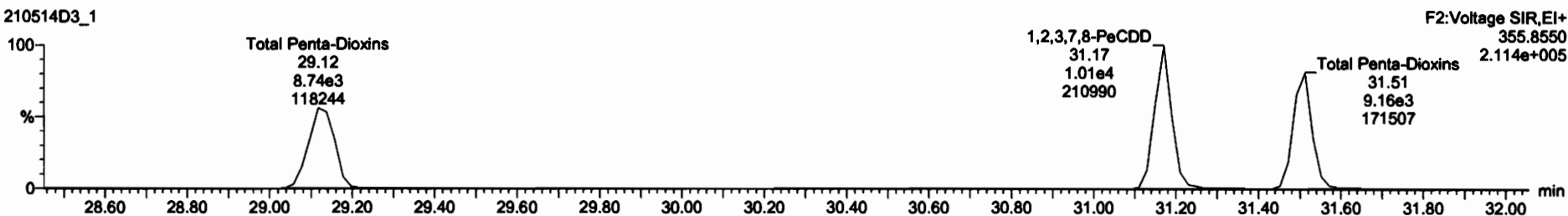
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1,2,3,7,8-PeCDD

210514D3\_1



210514D3\_1

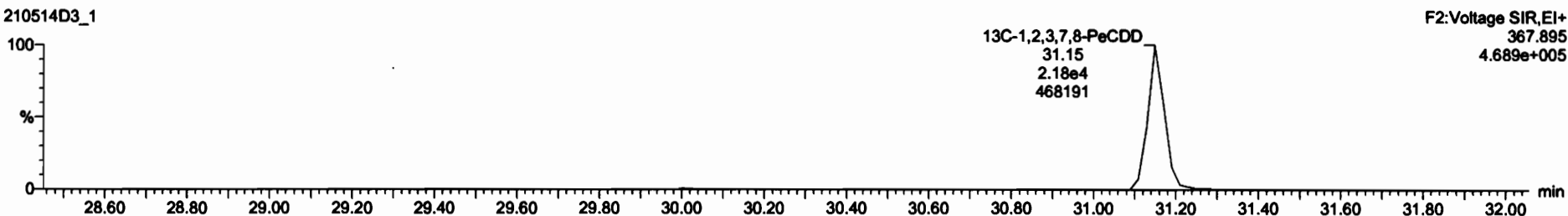


13C-1,2,3,7,8-PeCDD

210514D3\_1



210514D3\_1

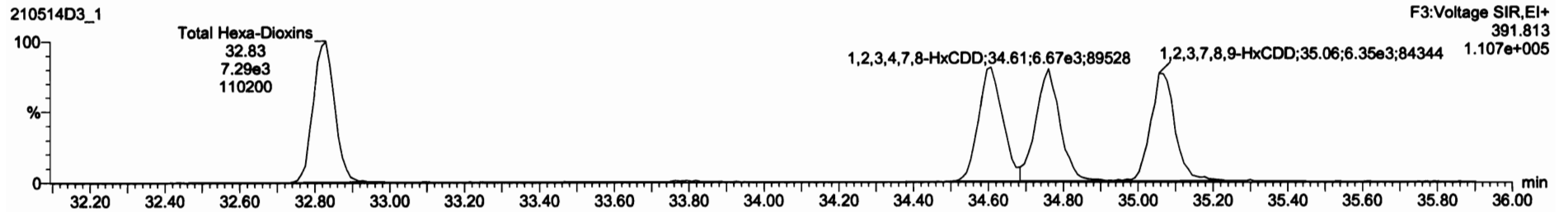
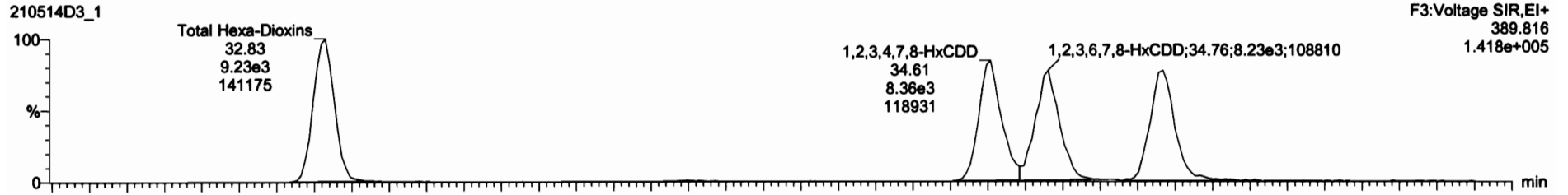


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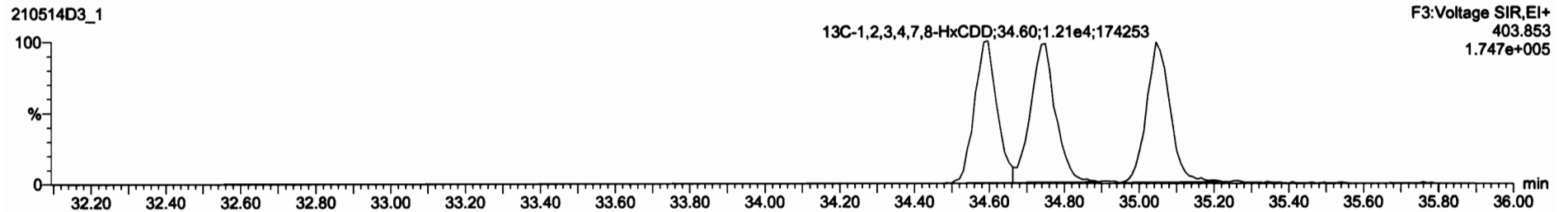
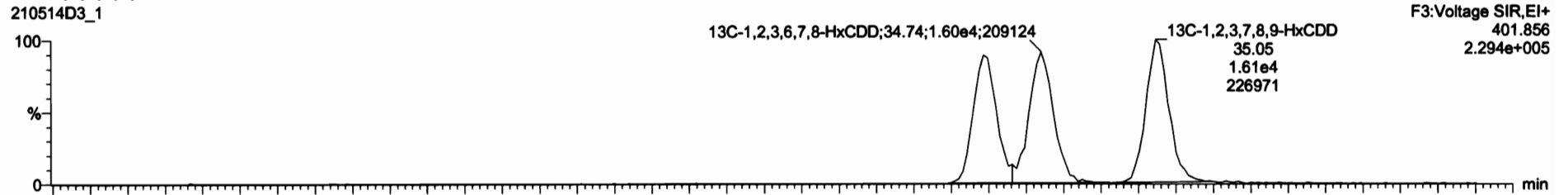
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1,2,3,4,7,8-HxCDD

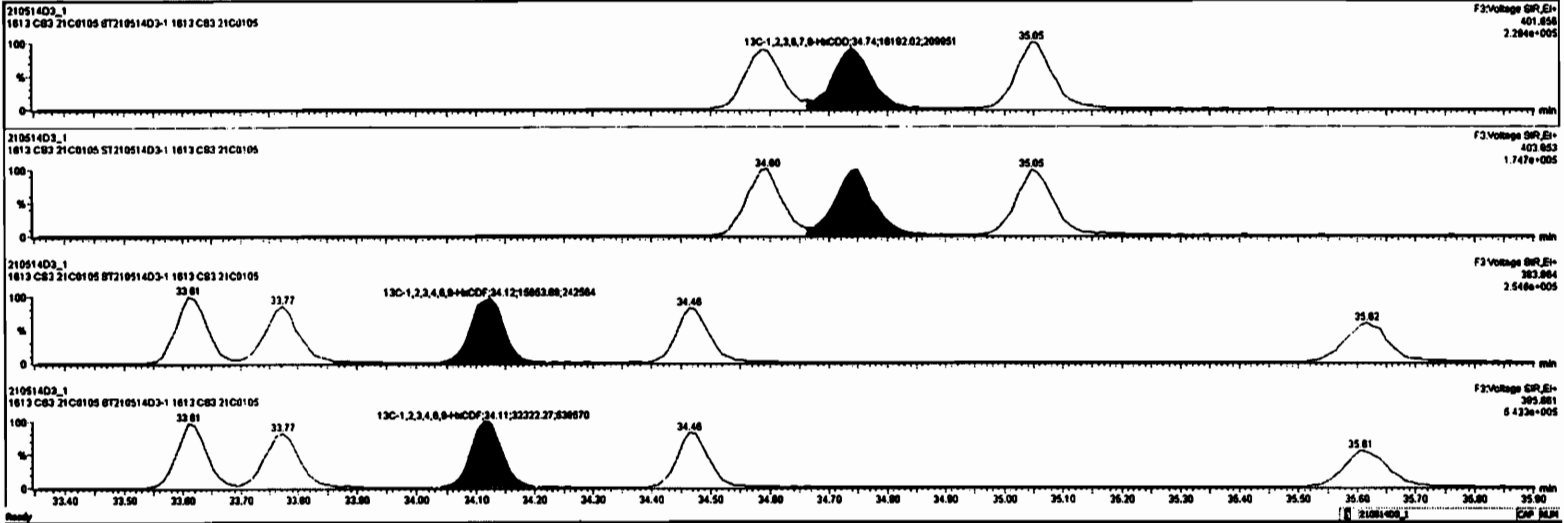


13C-1,2,3,4,7,8-HxCDD

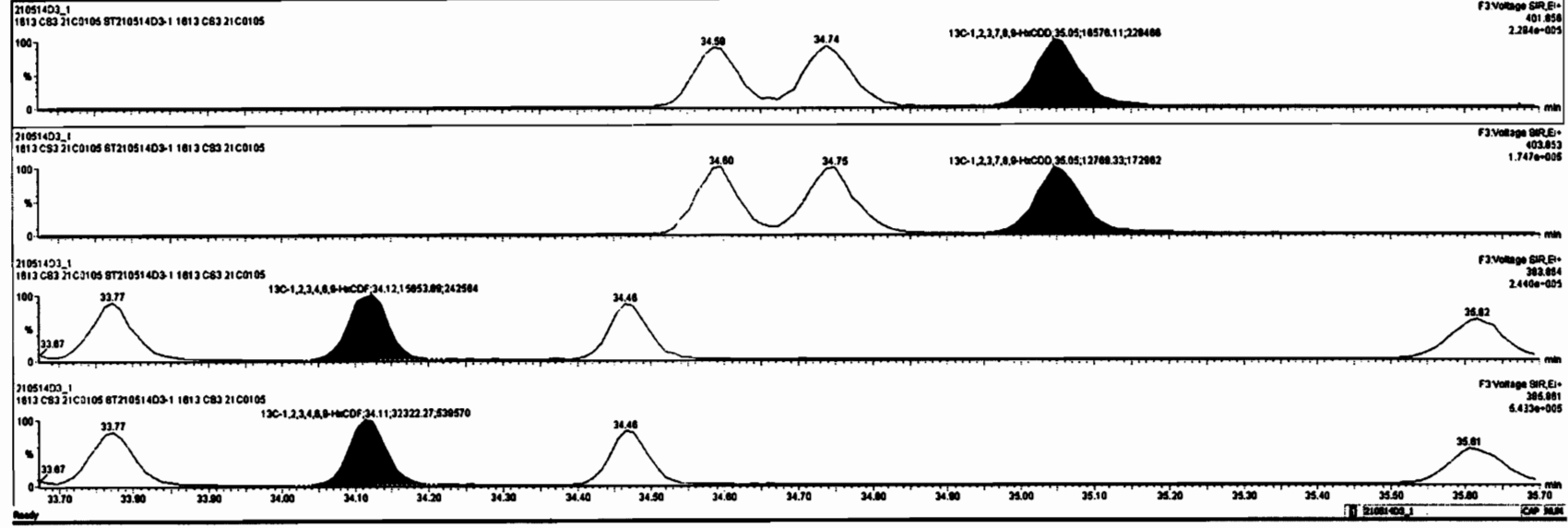




PK	Time	Area	%Area	Height	Width	Retention	Integration	Response	Concentration	Std					
16	13C-1,2,3,4,7,8-HxCDF	1.25e4	2.82e4	1.04	1.03	MO	1.1888	38.18	38.19	MO	1.000	1.000	48.4	69.8	MO
17	OCDF	2.26e4	5.26e4	0.68	0.80	MO	0.8288	42.83	42.88	MO	1.000	1.001	88.8	89.8	MO
18	13C-2,3,7,8-TCDF	5.89e4	1.35e4	0.77	0.76	MO	1.1453	38.88	37.80	MO	1.024	1.025	88.8	89.8	MO
19	13C-1,2,3,7,8-PeCDD	3.43e4	7.85e4	0.83	0.87	MO	0.8888	31.12	31.16	MO	1.181	1.183	78.8	78.8	MO
20	13C-1,2,3,4,7,8-HxCDD	2.89e4	6.62e4	1.24	1.22	MO	0.8483	34.88	34.88	MO	1.014	1.013	88.7	88.7	MO
21	13C-1,2,3,7,8-HxCDD	3.88e4	8.81e4	1.36	1.33	MO	0.7148	36.84	36.88	MO	1.037	1.037	88.7	88.7	MO
22	13C-1,2,3,4,6,7,8-HpCDD	3.26e4	7.43e4	1.84	1.88	MO	0.8832	38.38	38.47	MO	1.128	1.127	82.8	82.8	MO
23	13C-OCDD	3.88e4	8.81e4	0.88	0.88	MO	0.4813	41.88	42.28	MO	1.230	1.238	188	84.1	MO
24	13C-2,3,7,8-TCDF	0.83e4	1.88e4	0.77	0.75	MO	1.0888	38.48	38.42	MO	1.052	1.053	84.2	84.2	MO
25	13C-1,2,3,7,8-PeCDF	0.15e4	0.35e4	1.85	1.82	MO	0.8048	38.88	38.82	MO	1.138	1.140	78.8	78.8	MO
26	13C-2,3,6,7,8-PeCDF	0.83e4	1.88e4	1.85	1.88	MO	0.7818	38.88	38.88	MO	1.174	1.176	77.8	77.8	MO
27	13C-1,2,3,4,7,8-HxCDF	4.78e4	1.08e4	0.81	0.81	MO	0.8872	33.83	33.81	MO	0.888	0.888	88.8	88.8	MO
28	13C-1,2,3,7,8-PeCDF	4.88e4	1.08e4	0.81	0.87	MO	1.0282	33.78	33.77	MO	0.880	0.880	84.0	84.0	MO
29	13C-2,3,6,7,8-PeCDF	4.14e4	9.40e4	0.81	0.88	MO	0.8287	34.80	34.87	MO	1.011	1.010	81.8	81.8	MO
30	13C-1,2,3,7,8-HxCDF	3.78e4	8.61e4	0.81	0.81	MO	1.0825	36.81	36.82	MO	1.044	1.044	82.8	82.8	MO



#	Name	Start	Stop	Width	Area	Height	RT	RT% <sub>1</sub>	RT% <sub>2</sub>	RT% <sub>3</sub>	RT% <sub>4</sub>	RT% <sub>5</sub>	RT% <sub>6</sub>	RT% <sub>7</sub>	RT% <sub>8</sub>	RT% <sub>9</sub>	RT% <sub>10</sub>	RT% <sub>11</sub>	RT% <sub>12</sub>	RT% <sub>13</sub>	RT% <sub>14</sub>	RT% <sub>15</sub>	RT% <sub>16</sub>	RT% <sub>17</sub>	RT% <sub>18</sub>	RT% <sub>19</sub>	RT% <sub>20</sub>		
16	13C-1,2,3,4,7,8-HxCDF	1.55e1	2.82e1	1.04	1.03	NO	1.888	38.18	38.18	NO	1.000	1.000	98.8	98.8	NO														
17	OCDF	2.35e1	4.25e1	0.88	0.88	NO	0.808	42.83	42.88	NO	1.000	1.001	98.8	98.8	NO														
18	13C-1,2,3,7,8-TCDF	5.58e1	5.58e1	0.77	0.78	NO	1.1453	28.88	27.00	NO	1.024	1.025	98.8	98.8	NO														
19	13C-1,2,3,7,8-HxCDD	3.42e1	5.08e1	0.83	0.87	NO	0.8888	21.12	21.15	NO	1.181	1.180	78.8	78.8	NO														
20	13C-1,2,3,4,7,8-HxCDD	2.88e1	4.88e1	1.24	1.22	NO	0.8453	34.81	34.88	NO	1.014	1.013	88.7	88.7	NO														
21	13C-1,2,3,4,7,8-HxCDD	2.88e1	4.88e1	1.24	1.20	NO	0.7185	34.73	34.74	NO	1.018	1.018	88.2	88.2	NO														
22	13C-1,2,3,4,8,7,8-HxCDD	2.35e1	4.88e1	1.04	1.05	NO	0.8832	38.38	38.47	NO	1.125	1.127	83.8	83.8	NO														
23	13C-OCDD	3.84e1	4.88e1	0.88	0.88	NO	0.6913	41.88	42.25	NO	1.230	1.238	188	84.1	NO														
24	13C-1,2,3,7,8-TCDF	0.83e1	0.83e1	0.77	0.78	NO	1.0808	28.40	28.42	NO	1.002	1.003	84.2	84.2	NO														
25	13C-1,2,3,7,8-HxCDF	6.18e1	8.58e1	1.86	1.82	NO	0.8848	28.88	30.82	NO	1.138	1.140	78.8	78.8	NO														
26	13C-1,2,3,4,7,8-HxCDF	5.83e1	8.58e1	1.56	1.58	NO	0.7818	30.84	30.88	NO	1.174	1.178	77.8	77.8	NO														
27	13C-1,2,3,4,7,8-HxCDF	4.73e1	4.88e1	0.91	0.80	NO	0.8873	33.83	33.81	NO	0.886	0.885	88.8	88.8	NO														
28	13C-1,2,3,8,7,8-HxCDF	4.84e1	4.88e1	0.91	0.47	NO	1.0285	33.78	33.77	NO	0.888	0.888	84.8	84.8	NO														
29	13C-1,2,3,8,7,8-HxCDF	4.16e1	4.88e1	0.91	0.48	NO	0.8387	34.80	34.47	NO	1.011	1.010	81.8	81.8	NO														
30	13C-1,2,3,4,8,7,8-HxCDF	3.78e1	4.88e1	0.91	0.88	NO	0.8888	34.81	34.82	NO	1.044	1.044	83.8	83.8	NO														



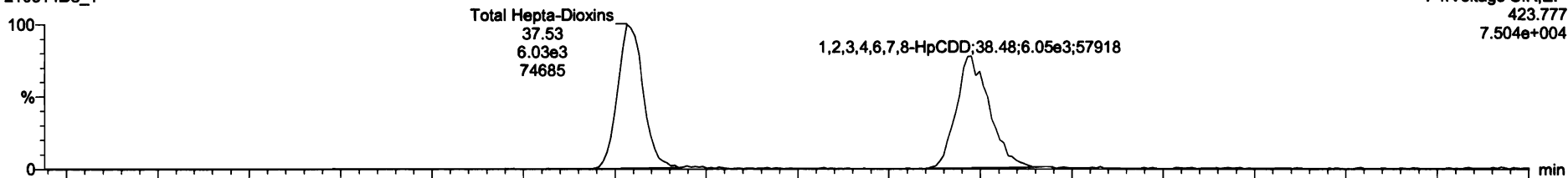
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Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

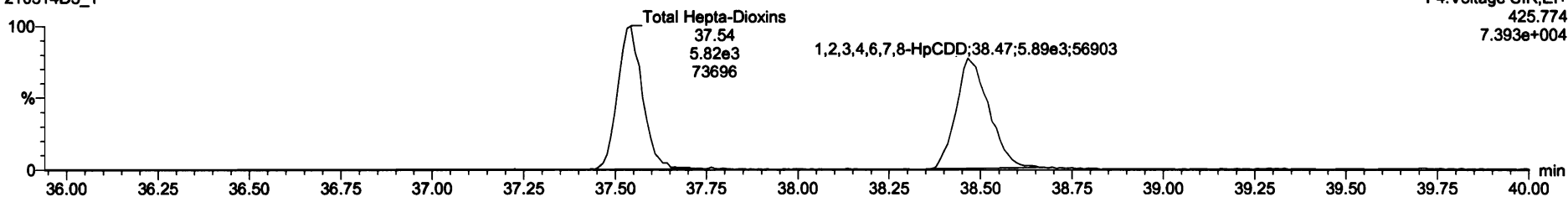
Name: 210514D3\_1, Date: 14-May-2021, Time: 15:49:44, ID: ST210514D3-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

210514D3\_1

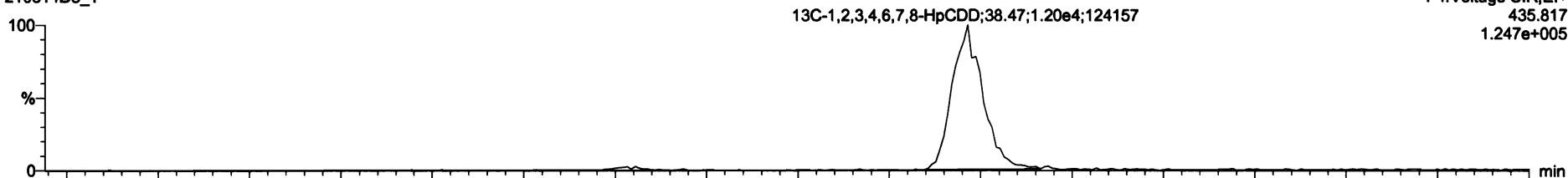


210514D3\_1

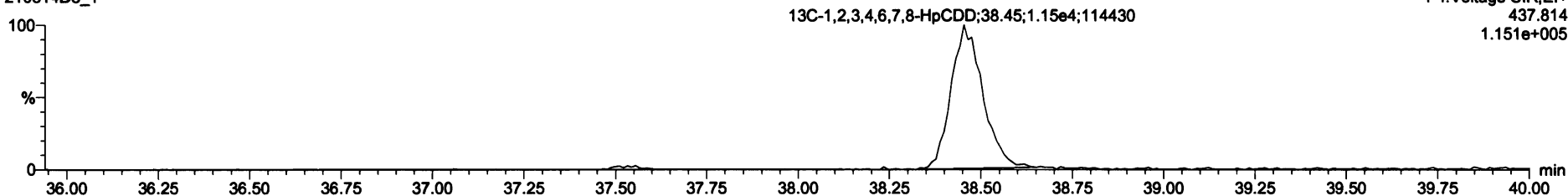


13C-1,2,3,4,6,7,8-HpCDD

210514D3\_1



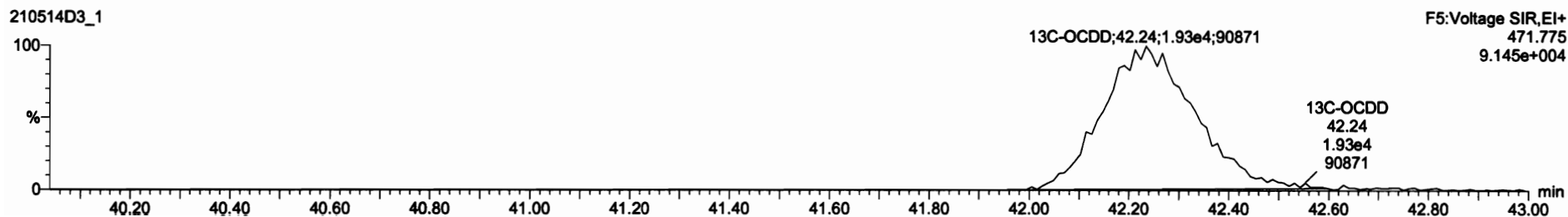
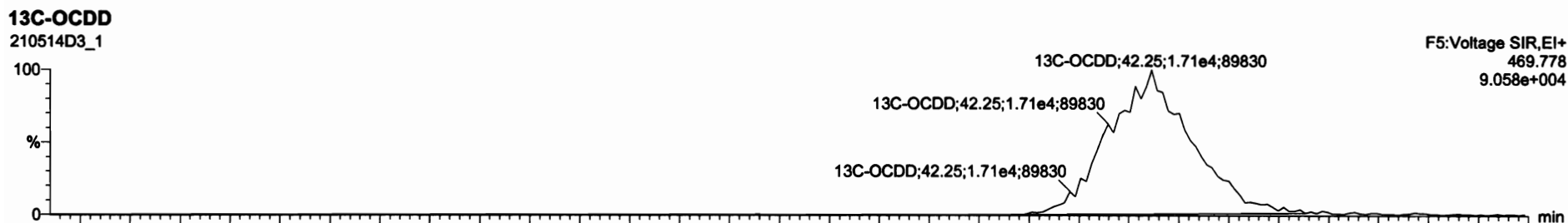
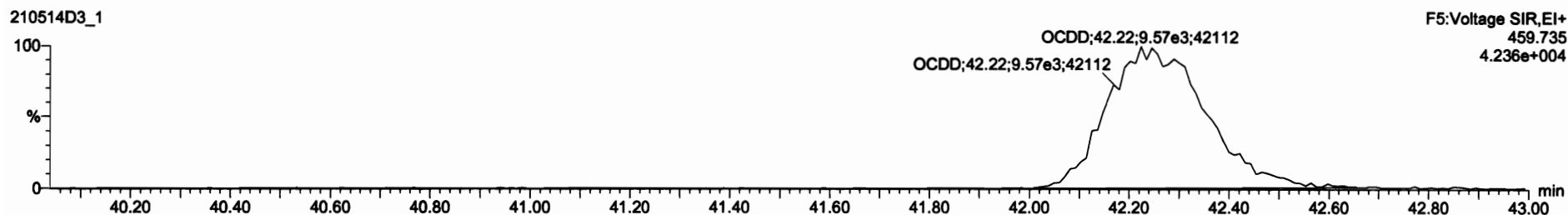
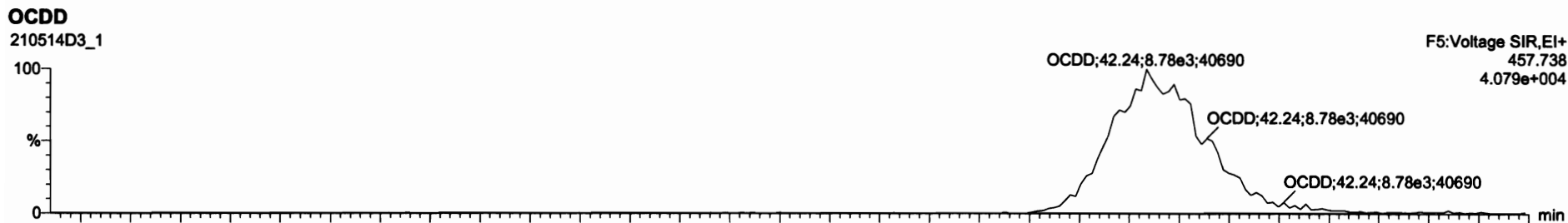
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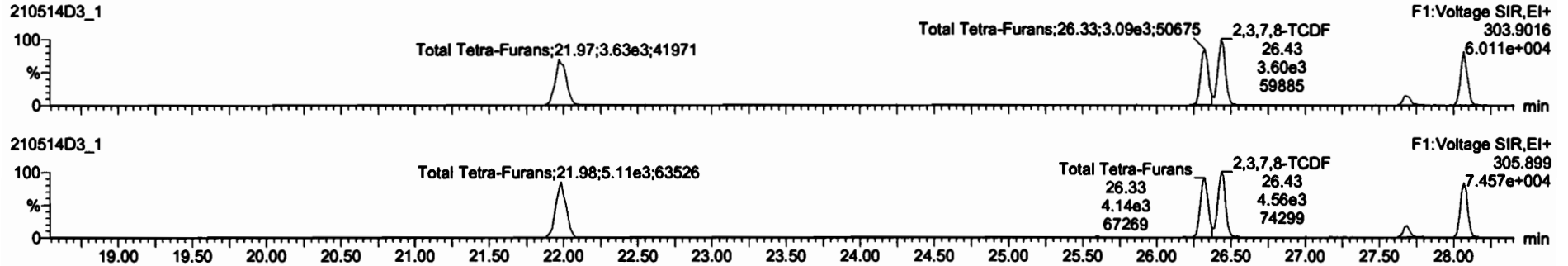
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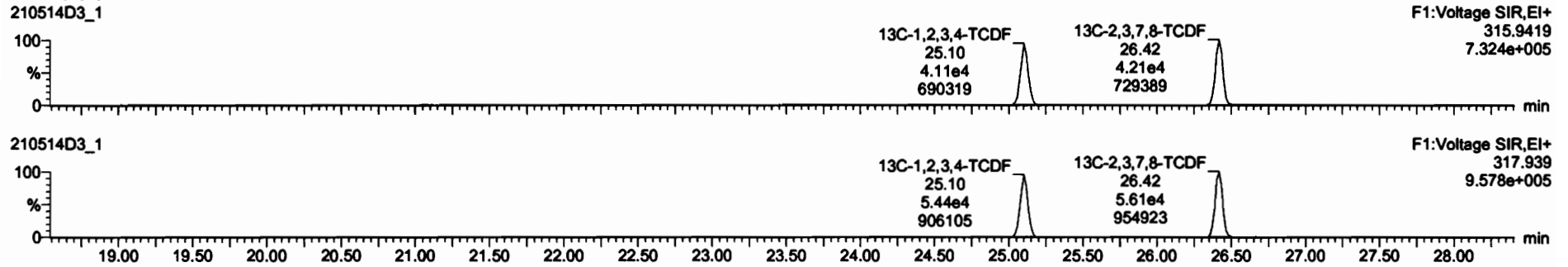
**2,3,7,8-TCDF**

210514D3\_1



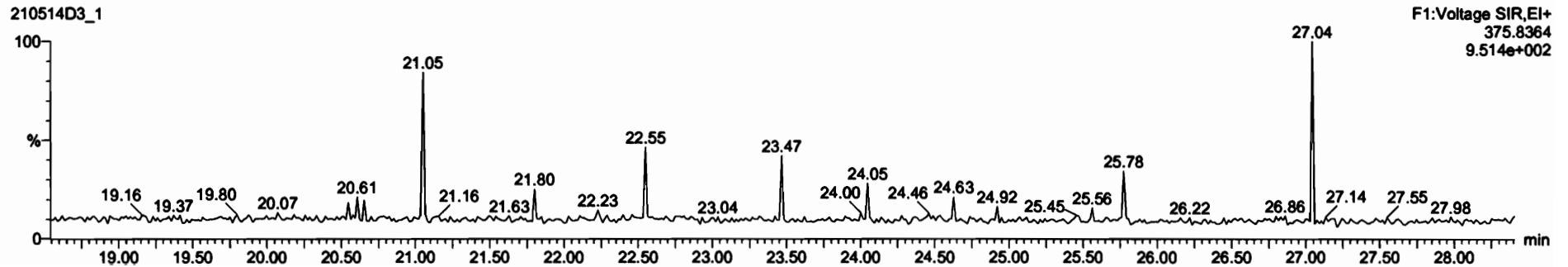
**13C-2,3,7,8-TCDF**

210514D3\_1

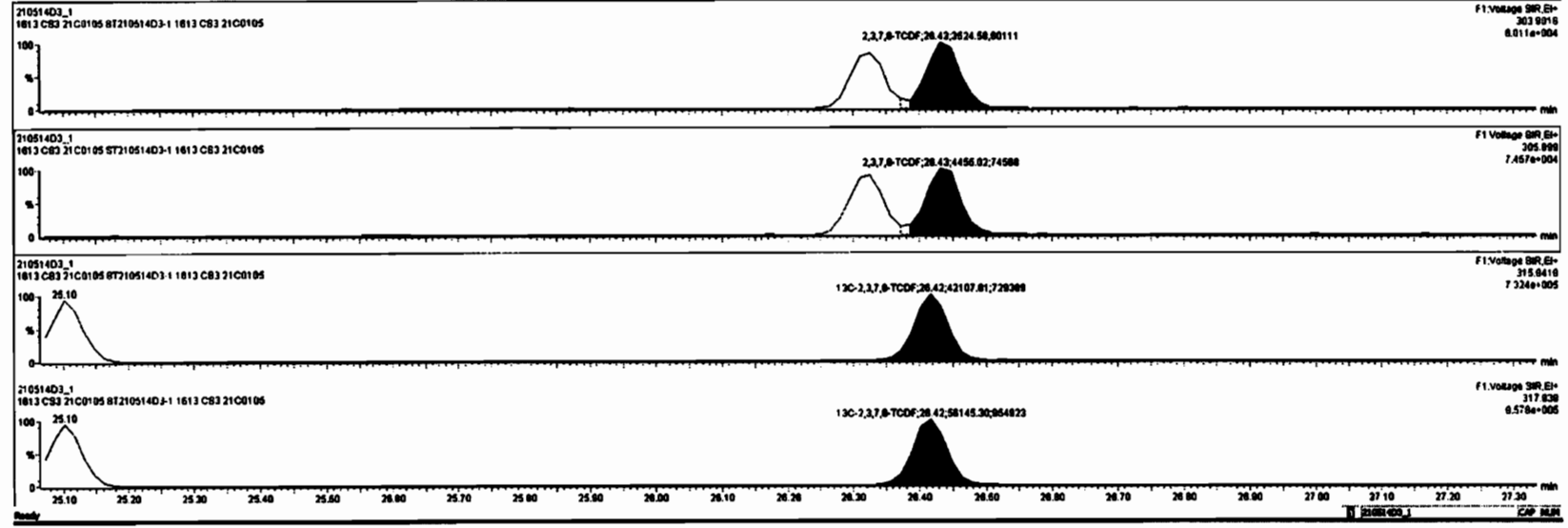


**DPE1**

210514D3\_1



#	Name	Inj. Vol.	Inj. Time	Inj. Conc.	Area	Height	Width	Area%	Height%	Retention	RT	RT Error	RT Std	Area	Height	Width	Area%	Height%	Retention	RT	RT Error	RT Std
1	2,3,7,8-TCDF	6.78uL	6.89uL	0.77	0.78	NO	1.0478	27.00	27.01	NO	1.001	1.001	0.00	99.9	NO							
2	1,2,3,7,8-PeCDF	1.80uL	3.43uL	0.63	0.69	NO	0.8813	31.17	31.17	NO	1.001	1.001	0.00	53.0	106	NO						
3	1,2,3,4,7,8-HxCDF	1.80uL	2.89uL	1.24	1.26	NO	1.1428	34.80	34.81	NO	1.000	1.001	0.00	48.0	99.0	NO						
4	1,2,3,6,7,8-HxCDF	1.48uL	2.89uL	1.24	1.24	NO	1.0108	34.78	34.78	NO	1.000	1.001	0.00	99.2	100	NO						
5	1,2,3,7,8-PeCDF	1.48uL	2.87uL	1.24	1.23	NO	1.0184	35.07	35.07	NO	1.001	1.001	0.00	99.5	101	NO						
6	1,2,3,4,6,7,8-HpCDF	1.18uL	2.36uL	1.04	1.03	NO	1.0890	36.48	36.48	NO	1.000	1.000	0.00	47.8	95.5	NO						
7	OCDF	1.80uL	3.84uL	0.69	0.67	NO	1.0022	42.25	42.24	NO	1.000	1.000	0.00	101	104	NO						
8	1,2,3,7,8-PeCDF	3.10uL	6.15uL	1.65	1.65	NO	0.9494	30.04	30.04	NO	1.001	1.001	0.00	53.2	108	NO						
9	1,2,3,4,7,8-HxCDF	3.11uL	6.72uL	1.66	1.64	NO	1.0277	31.02	30.88	NO	1.001	1.000	0.00	52.3	105	NO						
10	1,2,3,4,7,8-HxCDF	2.45uL	4.72uL	1.24	1.24	NO	1.0430	33.64	33.63	NO	1.001	1.001	0.00	48.8	97.2	NO						
11	1,2,3,6,7,8-HxCDF	2.45uL	4.84uL	1.24	1.25	NO	1.0742	33.78	33.78	NO	1.000	1.000	0.00	49.1	98.2	NO						
12	1,2,3,6,7,8-HxCDF	2.38uL	4.14uL	1.24	1.28	NO	1.1171	34.47	34.48	NO	1.000	1.001	0.00	48.3	97.7	NO						
13	1,2,3,7,8-PeCDF	1.89uL	3.78uL	1.24	1.26	NO	1.0887	35.82	36.84	NO	1.000	1.001	0.00	47.2	94.3	NO						
14	1,2,3,4,6,7,8-HpCDF	1.81uL	3.14uL	1.04	1.03	NO	1.1388	37.21	37.28	NO	1.001	1.000	0.00	48.9	99.8	NO						
15	1,2,3,4,7,8-HpCDF	1.80uL	2.89uL	1.04	1.05	NO	1.1398	36.18	36.18	NO	1.001	1.001	0.00	48.4	98.8	NO						



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Last Altered: Saturday, May 15, 2021 08:34:47 Pacific Daylight Time  
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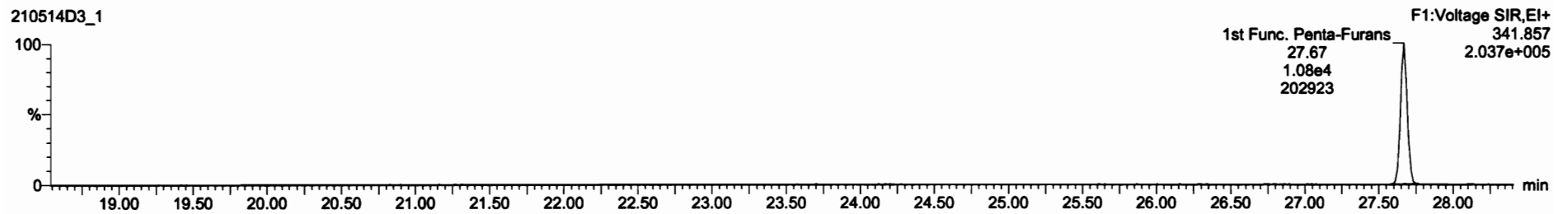
Name: 210514D3\_1, Date: 14-May-2021, Time: 15:49:44, ID: ST210514D3-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1st Func. Penta-Furans

210514D3\_1

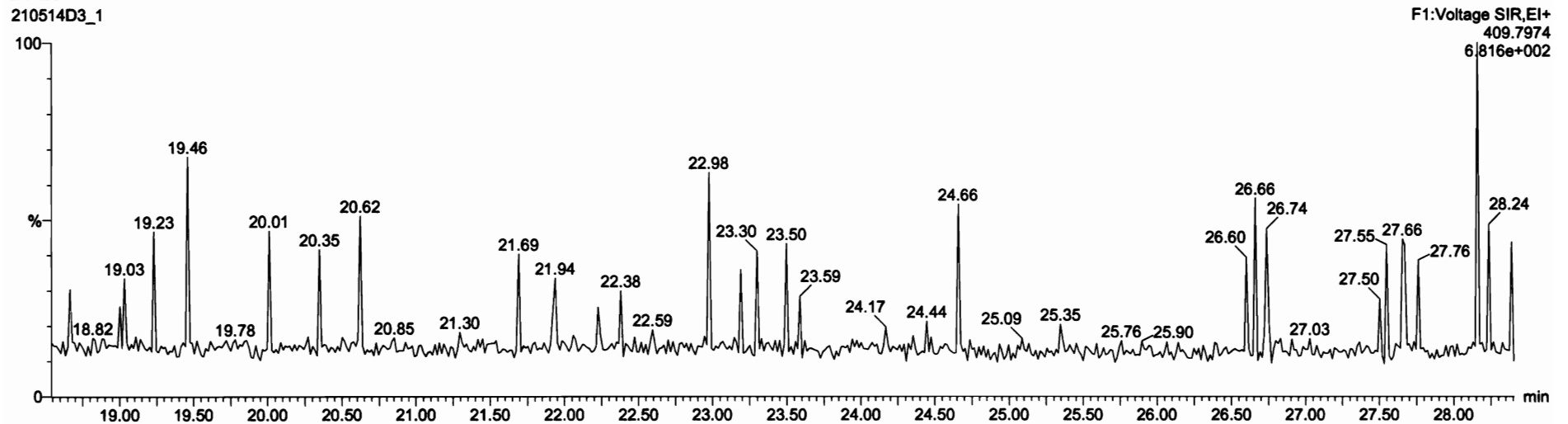


210514D3\_1



DPE6

210514D3\_1



Dataset: Untitled

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Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

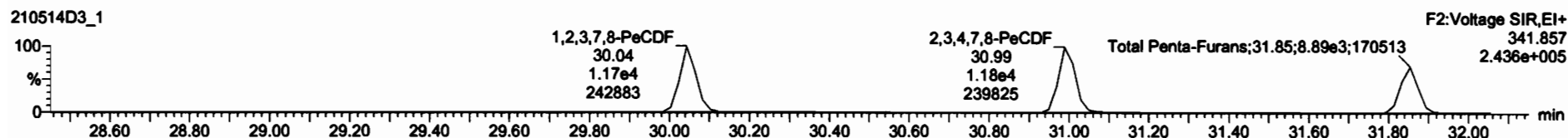
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**1,2,3,7,8-PeCDF**

210514D3\_1



210514D3\_1

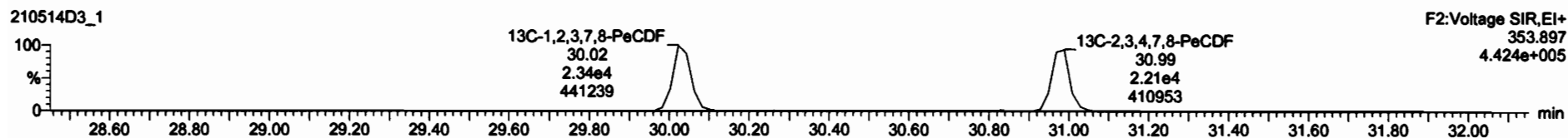


**13C-1,2,3,7,8-PeCDF**

210514D3\_1

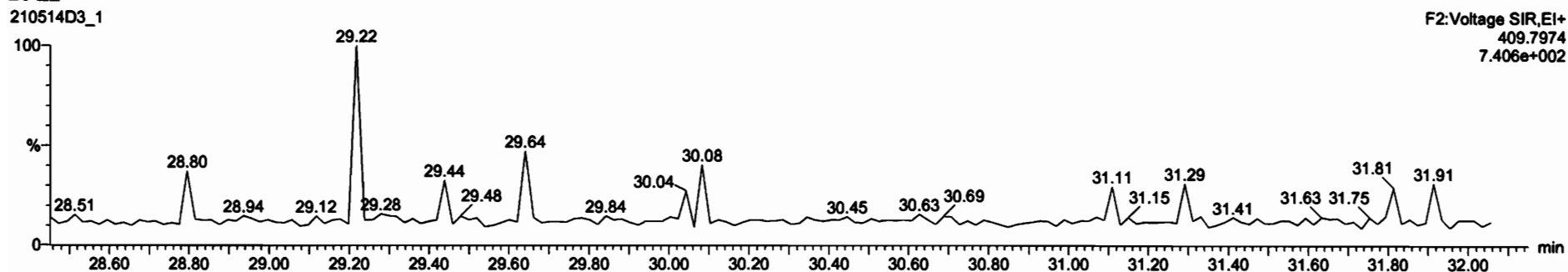


210514D3\_1



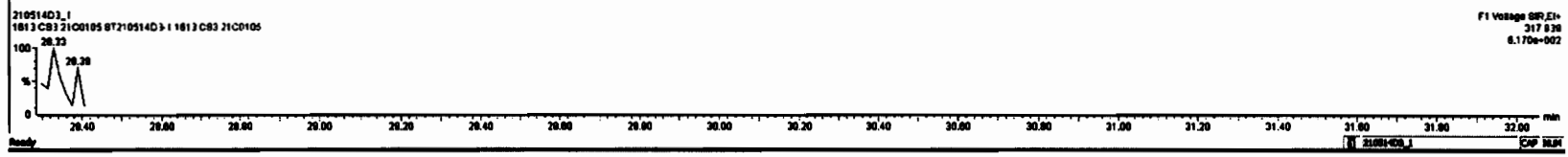
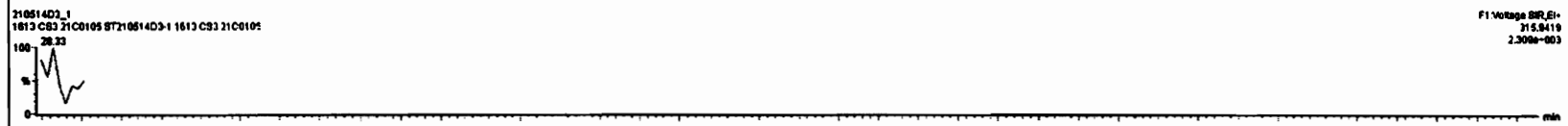
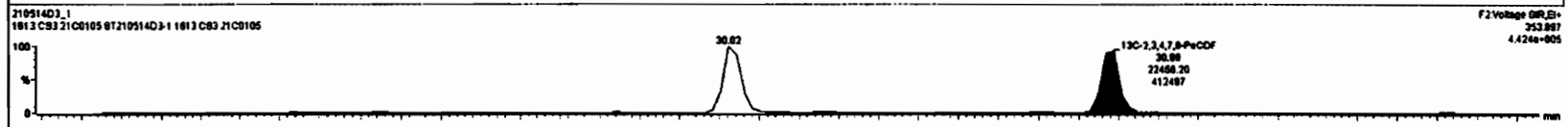
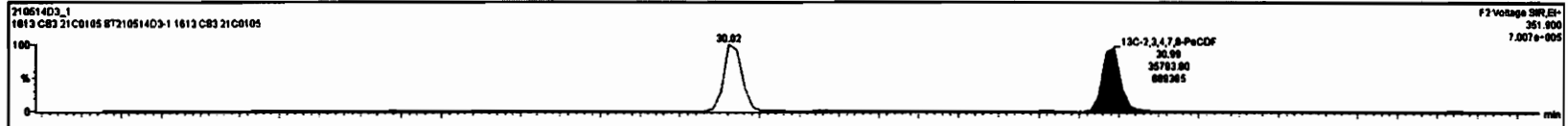
**DPE2**

210514D3\_1





#	Comp	Area	Height	Width	Ret	Area%	Height%	Width%	Ret	Area%	Height%	Width%	Ret	Area%	Height%	Width%	Ret	Area%	Height%	Width%	
16	1,2,3,4,7,8-PeCDF	1.53e4	2.02e4	1.04	1.03	NO	1.1898	38.18	38.18	NO	1.000	1.000	48.4	88.8	NO						
17	OCDF	2.35e4	5.58e4	0.89	0.93	NO	0.9886	42.83	42.88	NO	1.000	1.001	88.8	88.8	NO						
18	1,3C-2,3,7,8-TCDF	5.88e4	6.08e4	0.77	0.78	NO	1.1483	28.89	27.00	NO	1.004	1.026	88.8	88.8	NO						
19	1,3C-1,2,3,7,8-PeCDD	3.63e4	5.08e4	0.83	0.57	NO	0.8889	31.12	31.15	NO	1.181	1.183	78.8	78.8	NO						
20	1,3C-1,2,3,7,8-PeCDD	2.88e4	4.88e4	1.24	1.23	NO	0.8483	34.81	34.88	NO	1.014	1.013	88.7	88.7	NO						
21	1,3C-1,2,3,7,8-PeCDD	2.88e4	4.88e4	1.24	1.23	NO	0.7185	34.73	34.74	NO	1.018	1.018	88.2	88.2	NO						
22	1,3C-1,2,3,7,8-PeCDD	2.88e4	4.88e4	1.24	1.23	NO	0.7149	35.04	35.05	NO	1.027	1.027	88.7	88.7	NO						
23	1,3C-1,2,3,4,7,8-PeCDD	2.35e4	4.88e4	1.24	1.25	NO	0.9827	38.28	38.47	NO	1.125	1.127	83.8	83.8	NO						
24	1,3C-OCDF	3.88e4	4.88e4	0.88	0.88	NO	0.4813	41.88	42.25	NO	1.239	1.238	188	84.1	NO						
25	1,3C-2,3,7,8-TCDF	8.88e4	8.88e4	0.77	0.78	NO	1.0000	28.40	28.43	NO	1.000	1.000	84.2	84.2	NO						
26	1,3C-1,2,3,7,8-PeCDF	6.18e4	8.88e4	1.85	1.82	NO	0.8048	28.38	30.22	NO	1.128	1.148	78.8	78.8	NO						
28	1,3C-1,2,3,4,7,8-PeCDF	4.78e4	4.88e4	0.81	0.80	NO	0.8873	33.83	33.81	NO	0.886	0.886	88.8	88.8	NO						
29	1,3C-1,2,3,7,8-PeCDF	4.88e4	4.88e4	0.81	0.47	NO	1.0285	33.78	33.77	NO	0.880	0.880	84.0	84.0	NO						
30	1,3C-2,3,4,7,8-PeCDF	4.14e4	4.88e4	0.81	0.48	NO	0.8387	34.88	34.47	NO	1.011	1.010	81.8	81.8	NO						
31	1,3C-1,2,3,7,8-PeCDF	3.78e4	4.88e4	0.81	0.81	NO	1.0000	36.81	36.80	NO	1.044	1.044	80.4	80.4	NO						

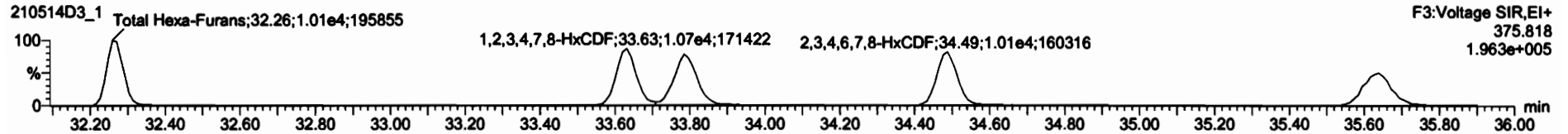
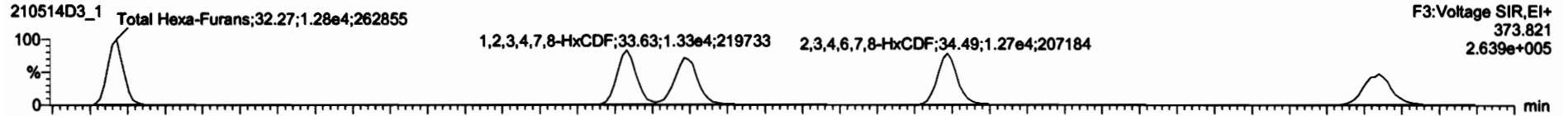


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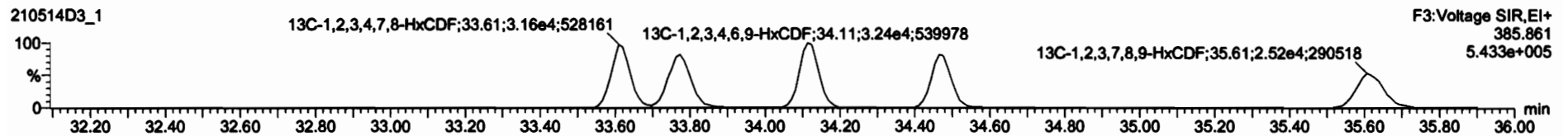
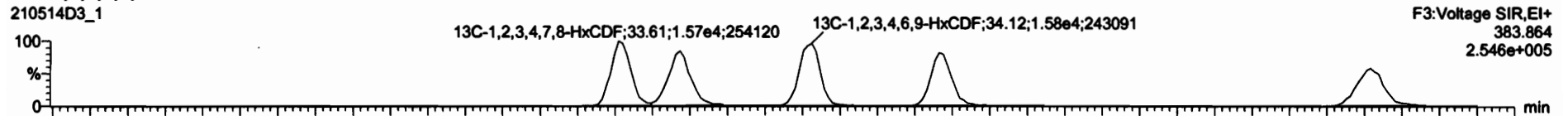
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Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

Name: 210514D3\_1, Date: 14-May-2021, Time: 15:49:44, ID: ST210514D3-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

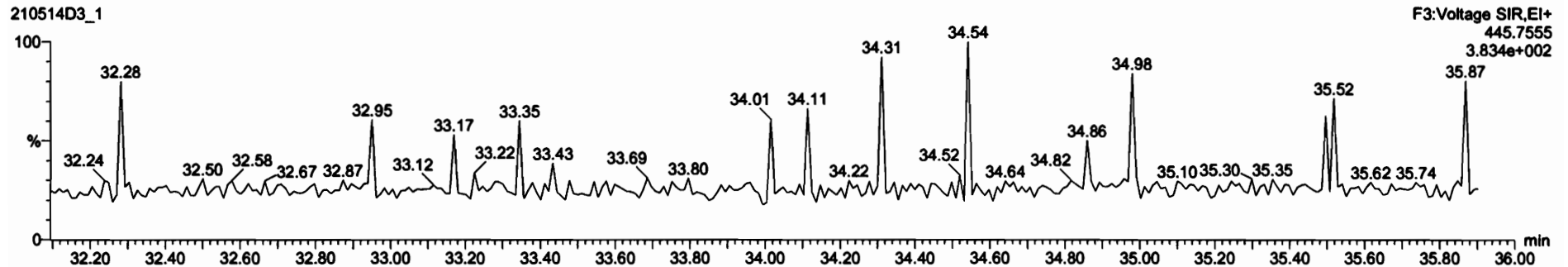
1,2,3,4,7,8-HxCDF



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



DPE3



Dataset: Untitled

Last Altered: Saturday, May 15, 2021 08:34:47 Pacific Daylight Time  
Printed: Saturday, May 15, 2021 08:35:21 Pacific Daylight Time

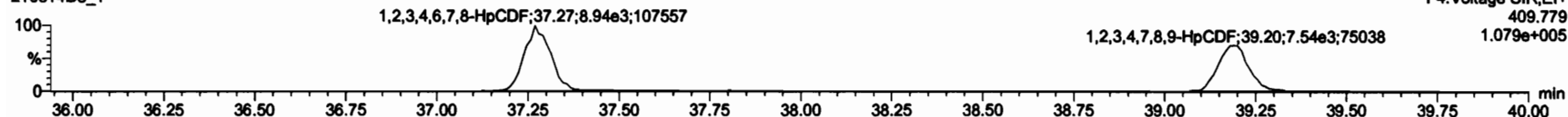
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**1,2,3,4,6,7,8-HpCDF**

210514D3\_1

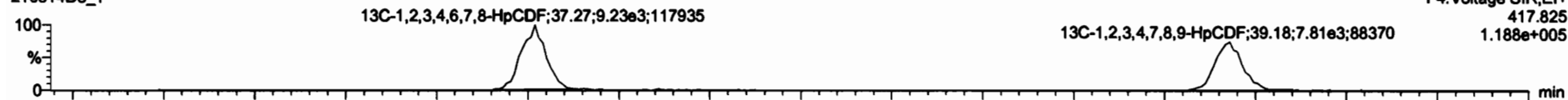


210514D3\_1

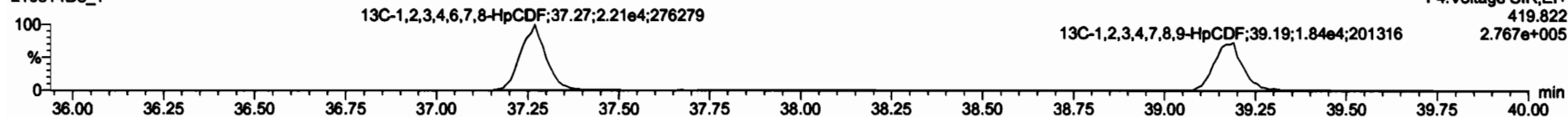


**13C-1,2,3,4,6,7,8-HpCDF**

210514D3\_1

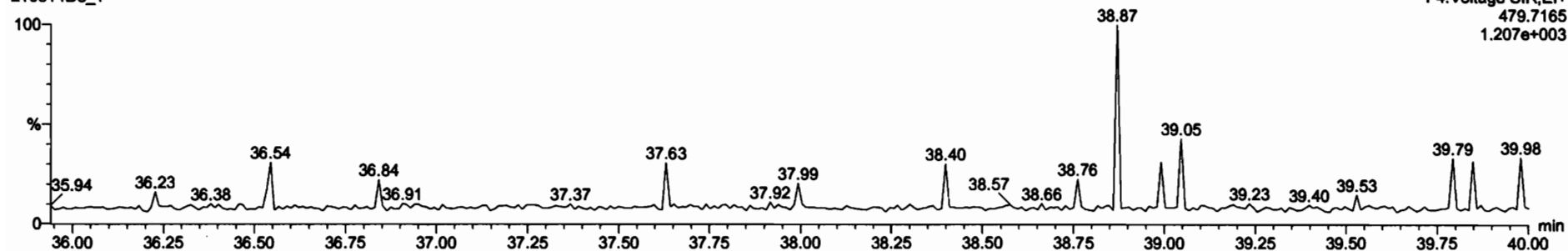


210514D3\_1



**DPE4**

210514D3\_1



Dataset: Untitled

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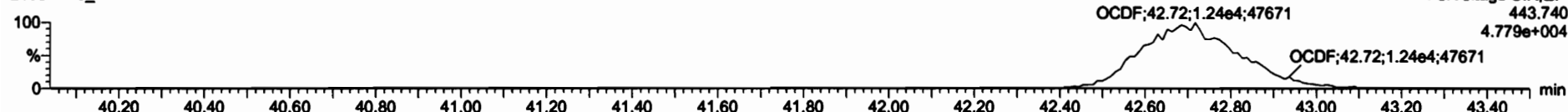
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**OCDF**

210514D3\_1



210514D3\_1

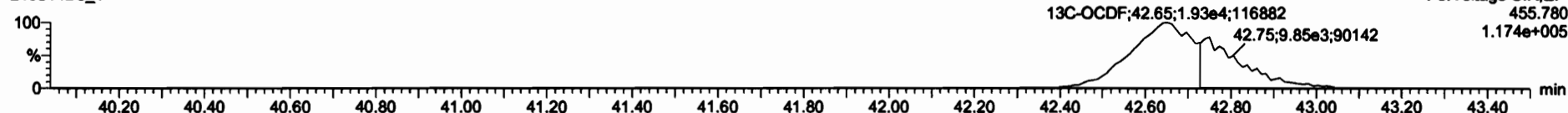


**13C-OCDF**

210514D3\_1

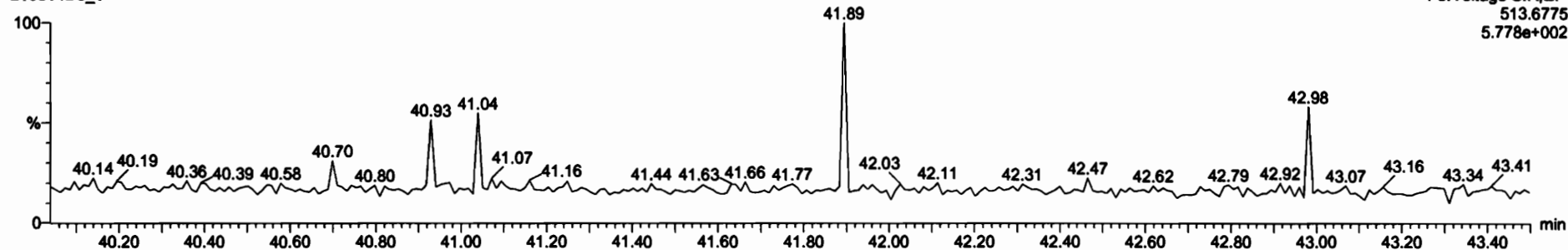


210514D3\_1



**DPE5**

210514D3\_1

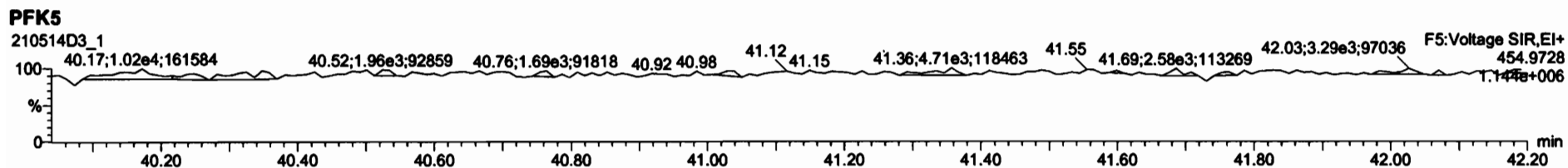
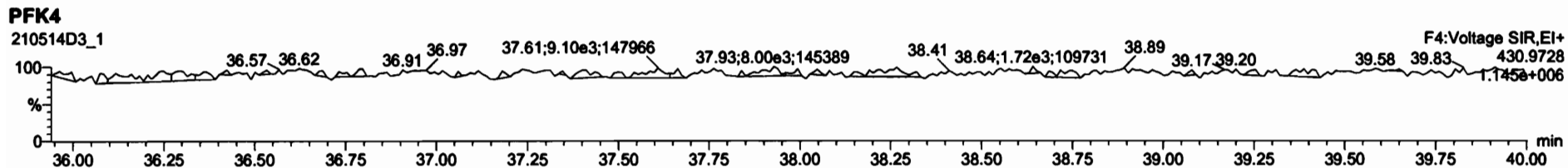
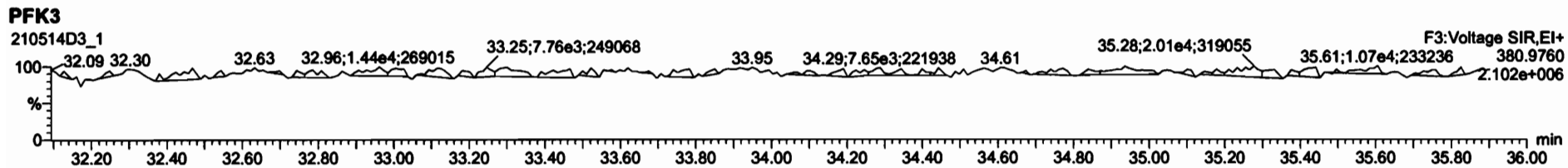
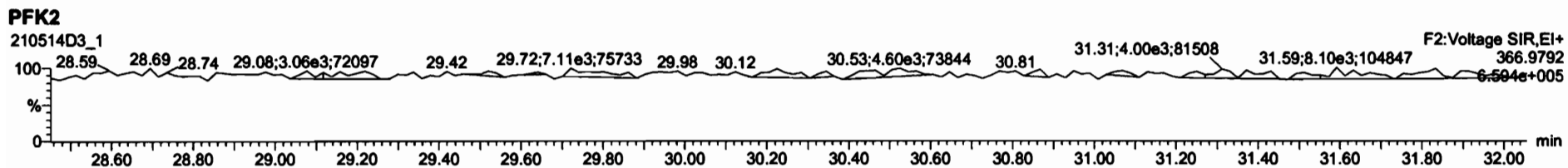
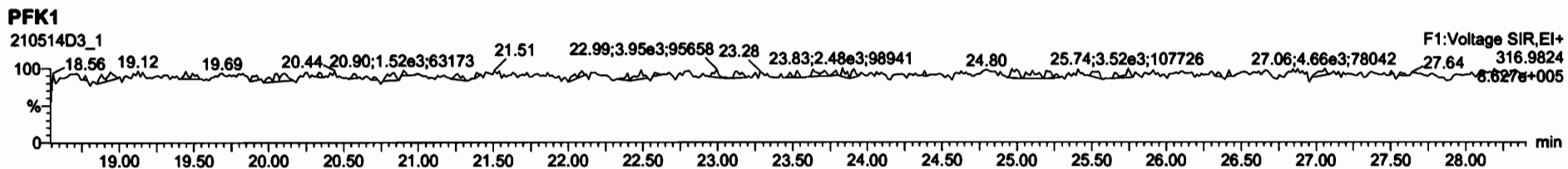




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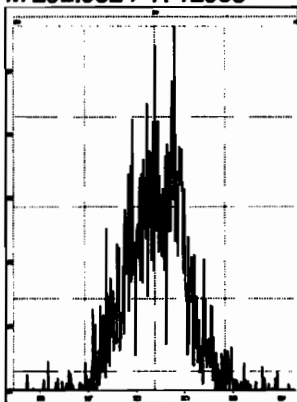
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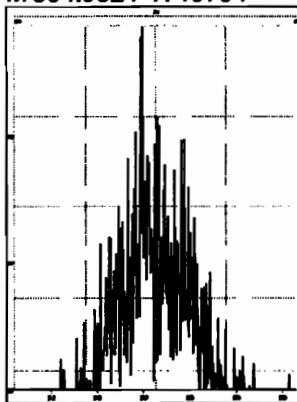


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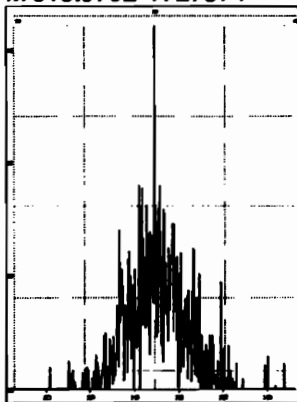
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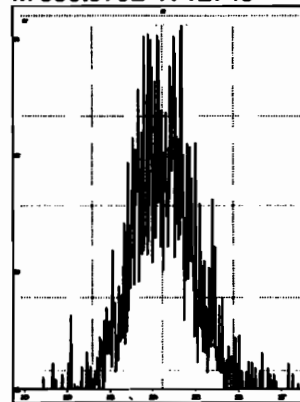
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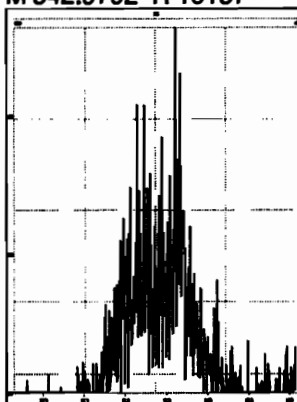
M 318.9792 R 27374



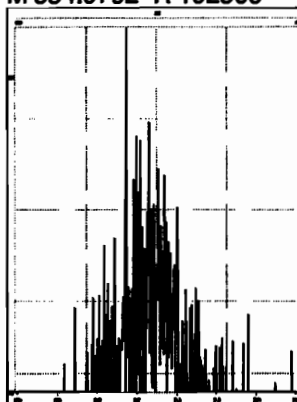
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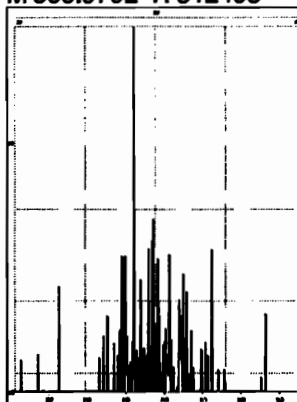
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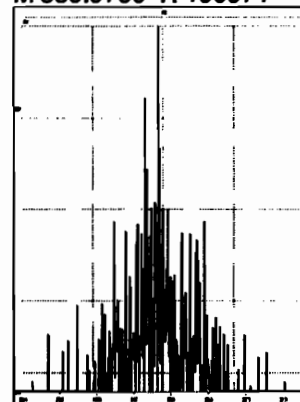
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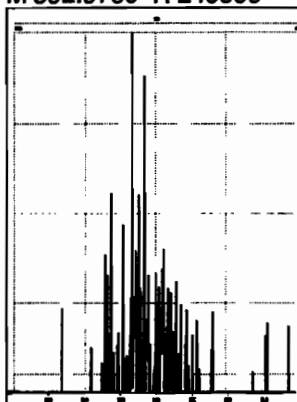
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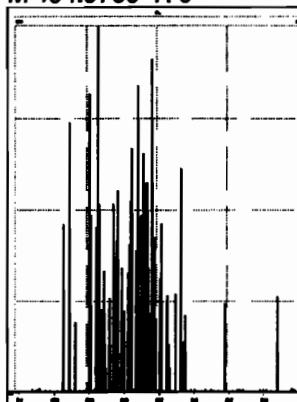
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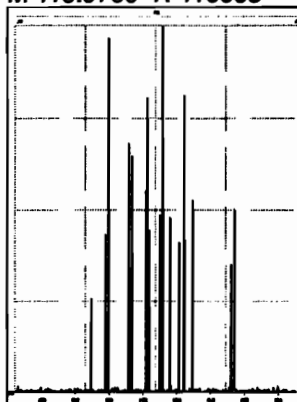
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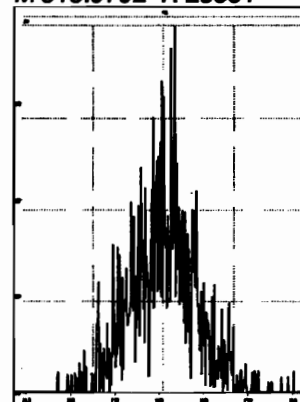
M 404.9760 R 0



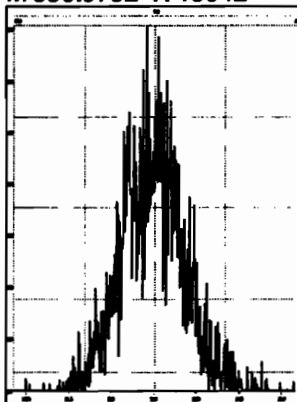
M 416.9760 R 416668



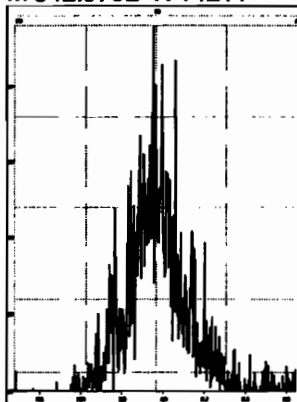
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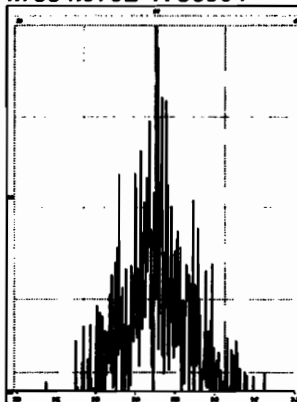
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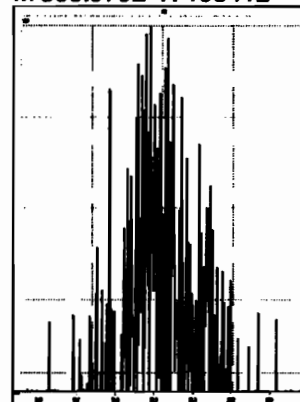
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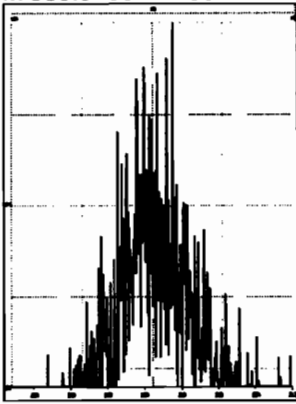
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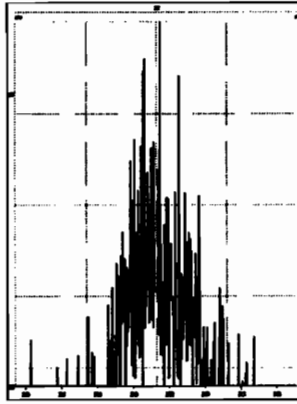
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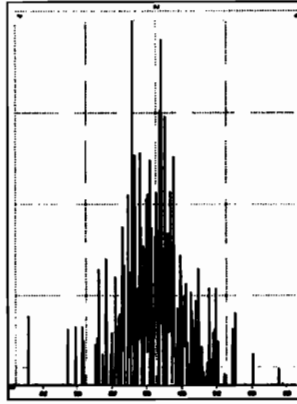
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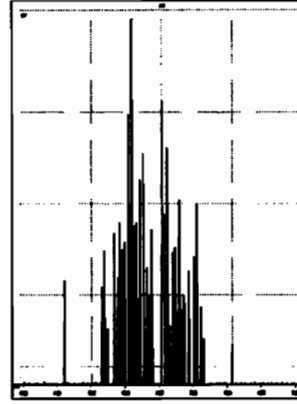
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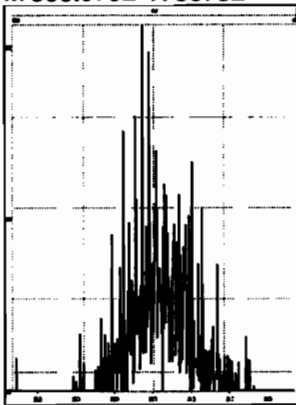
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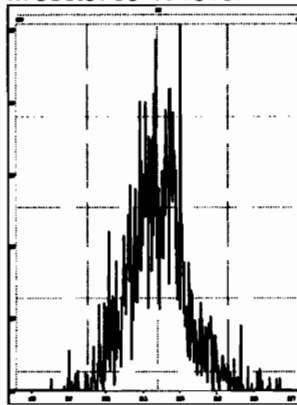
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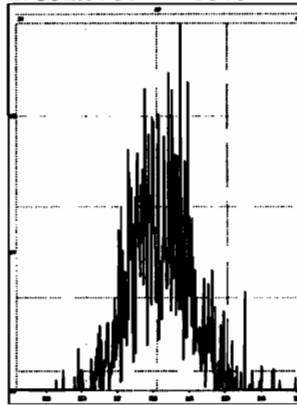
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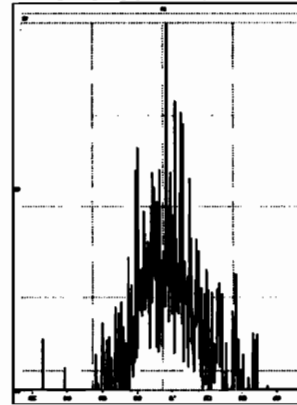
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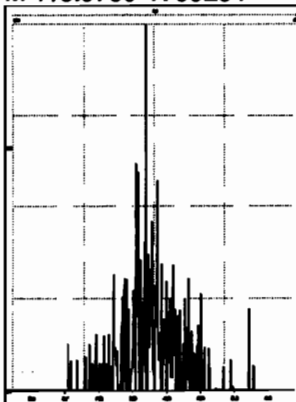
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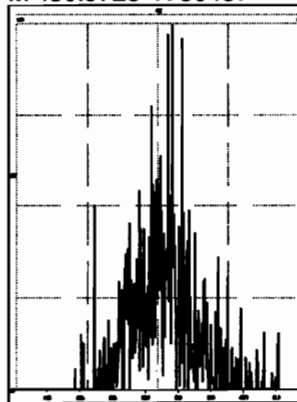
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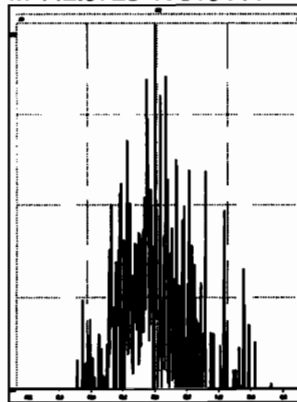
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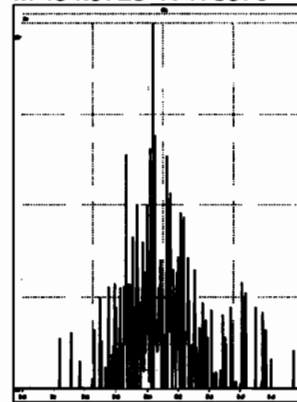
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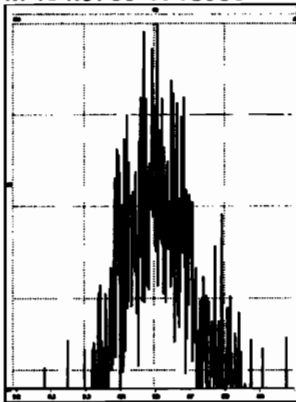
M 442.9728 R 319444



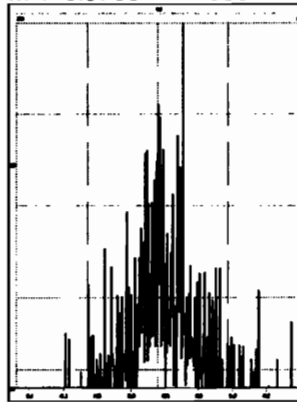
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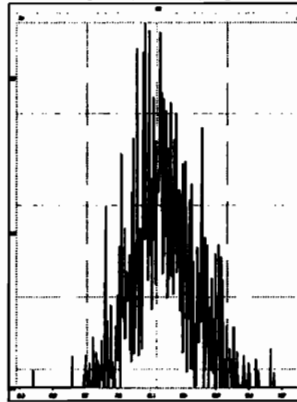
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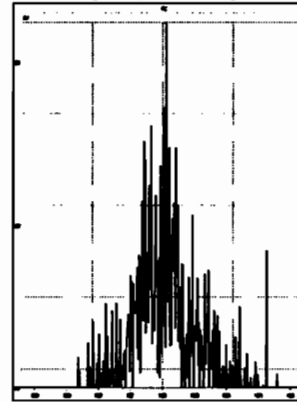
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M 430.9728 R 18356

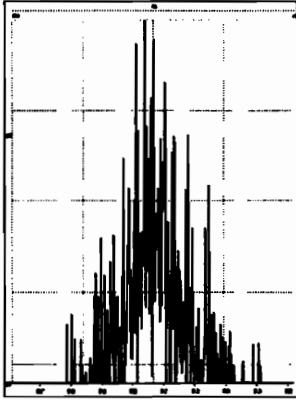


M 442.9728 R 26497

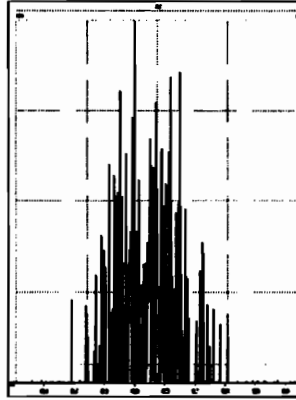




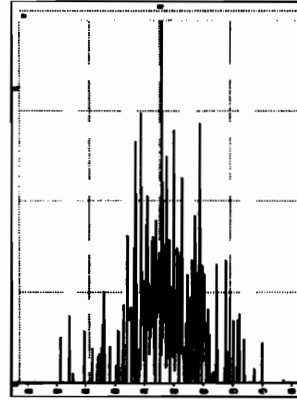
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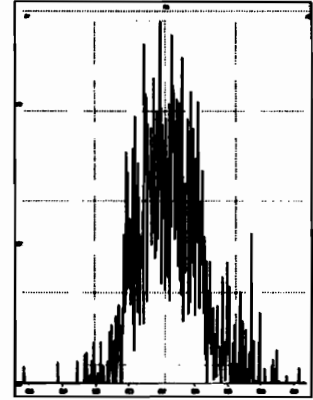
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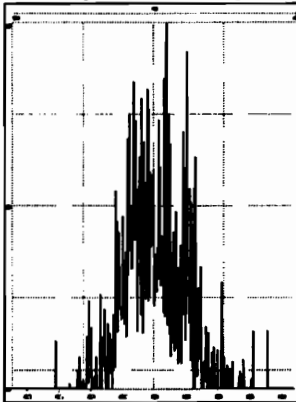
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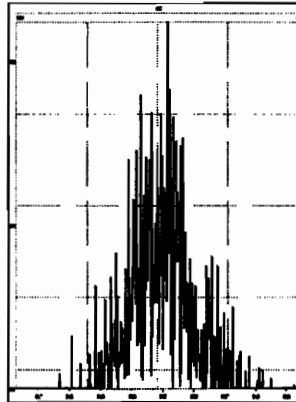
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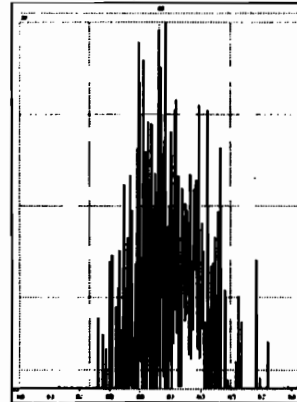
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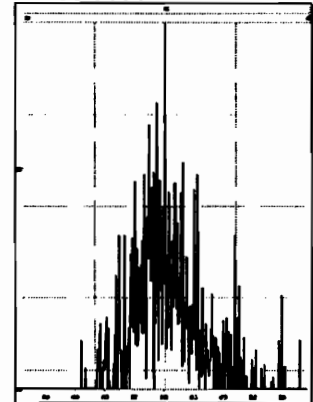
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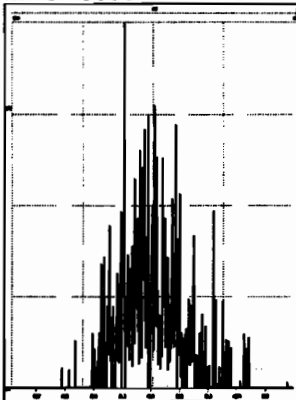
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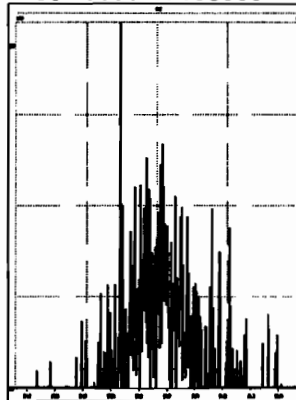
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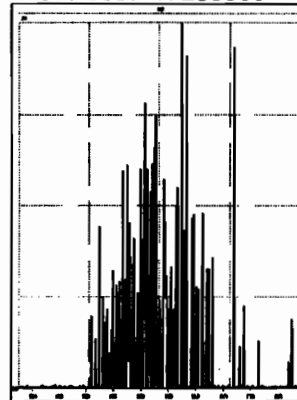
M 492.9696 R 27114



M 504.9696 R 188888



M 516.9697 R 235388



**HRMS CALIBRATION STANDARDS REVIEW CHECKLIST**

**Beg. Calibration ID:** ST 210517D2-1

**Reviewed By:** WIN 05/25/21

*Initials & Date*

**End Calibration ID:** NA

	<u>Beg.</u>	<u>End</u>
<b>Ion abundance within QC limits?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Concentrations within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>TCDD/TCDF Valleys &lt;25%</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>First and last eluters present?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Retention Times within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Verification Std. named correctly?</b> <b>(ST-Year-Month-Day-VG ID)</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Forms signed and dated?</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Correct ICAL referenced?</b>	<u>HZ</u>	<u> </u>
<b><u>Run Log:</u></b>		
- <b>Correct instrument listed?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
- <b>Samples within 12 hour clock?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- <b>Bottle position verified?</b>	<u>HZ</u>	<u> </u>

**Mass resolution  $\geq$**

5k    6-8K    8K    10K  
1614   1699   429   1613/1668/8280

**Intergrated peaks display correctly?**

**GC Break <20%**

**8280 CS1 End Standard:**

**- Ratios within limits, S/N <2.5:1, CS1 within 12 hours**

**Comments:**

(R) end res check printed following day  
some under 10K.

Dataset: U:\VG7.PRO\Results\210517D2\210517D2-1.qld

Last Altered: Monday, May 24, 2021 16:20:09 Pacific Daylight Time  
Printed: Monday, May 24, 2021 16:34:20 Pacific Daylight Time

*HN 05/25/21*  
*125.24.00*

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07  
Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210517D2\_1, Date: 17-May-2021, Time: 13:49:26, ID: ST210517D2-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	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	8.73e3	9.34e4	0.79	NO	1.05	26.96	26.97	NO	1.001	1.001	8.9249	89.2	NO
2	2 1,2,3,7,8-PeCDD	2.63e4	5.99e4	0.61	NO	0.881	31.15	31.15	NO	1.001	1.001	49.771	99.5	NO
3	3 1,2,3,4,7,8-HxCDD	2.37e4	4.28e4	1.26	NO	1.14	34.55	34.56	NO	1.000	1.001	48.396	96.8	NO
4	4 1,2,3,6,7,8-HxCDD	2.46e4	5.18e4	1.26	NO	1.01	34.69	34.69	NO	1.000	1.001	47.061	94.1	NO
5	5 1,2,3,7,8,9-HxCDD	2.38e4	5.07e4	1.29	NO	1.02	35.00	34.99	NO	1.001	1.001	46.077	92.2	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.80e4	3.62e4	1.05	NO	1.07	38.43	38.43	NO	1.000	1.000	46.595	93.2	NO
7	7 OCDD	2.51e4	5.37e4	0.89	NO	1.00	42.03	42.04	NO	1.000	1.000	93.353	93.4	NO
8	8 2,3,7,8-TCDF	1.21e4	1.56e5	0.80	NO	0.864	26.38	26.39	NO	1.001	1.001	8.9842	89.8	NO
9	9 1,2,3,7,8-PeCDF	4.74e4	9.96e4	1.58	NO	0.948	30.00	30.00	NO	1.001	1.001	50.131	100	NO
10	10 2,3,4,7,8-PeCDF	4.92e4	9.57e4	1.62	NO	1.04	31.00	30.97	NO	1.001	1.000	49.523	99.0	NO
11	11 1,2,3,4,7,8-HxCDF	3.58e4	7.27e4	1.26	NO	1.04	33.60	33.59	NO	1.001	1.000	47.262	94.5	NO
12	12 1,2,3,6,7,8-HxCDF	3.95e4	8.00e4	1.26	NO	1.07	33.73	33.73	NO	1.000	1.000	45.977	92.0	NO
13	13 2,3,4,6,7,8-HxCDF	3.45e4	6.57e4	1.24	NO	1.12	34.43	34.44	NO	1.000	1.001	47.071	94.1	NO
14	14 1,2,3,7,8,9-HxCDF	2.93e4	5.74e4	1.28	NO	1.10	35.55	35.56	NO	1.000	1.000	46.467	92.9	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.59e4	4.77e4	1.00	NO	1.16	37.17	37.16	NO	1.001	1.001	46.837	93.7	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.08e4	3.74e4	1.00	NO	1.19	39.12	39.13	NO	1.000	1.000	46.697	93.4	NO
17	17 OCDF	3.13e4	7.46e4	0.88	NO	0.909	42.36	42.38	NO	1.000	1.000	92.428	92.4	NO
18	18 13C-2,3,7,8-TCDD	9.34e4	8.41e4	0.79	NO	1.15	26.93	26.94	NO	1.024	1.024	96.905	96.9	NO
19	19 13C-1,2,3,7,8-PeCDD	5.99e4	8.41e4	0.60	NO	0.887	31.06	31.13	NO	1.181	1.184	80.240	80.2	NO
20	20 13C-1,2,3,4,7,8-HxCDD	4.28e4	7.67e4	1.25	NO	0.645	34.53	34.54	NO	1.014	1.015	86.426	86.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.18e4	7.67e4	1.31	NO	0.717	34.65	34.67	NO	1.018	1.018	94.231	94.2	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.07e4	7.67e4	1.33	NO	0.714	34.96	34.97	NO	1.027	1.027	92.459	92.5	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.62e4	7.67e4	1.10	NO	0.583	38.30	38.42	NO	1.125	1.128	80.978	81.0	NO
24	24 13C-OCDD	5.37e4	7.67e4	0.86	NO	0.451	41.90	42.03	NO	1.230	1.234	155.09	77.5	NO
25	25 13C-2,3,7,8-TCDF	1.56e5	1.45e5	0.75	NO	1.09	26.35	26.36	NO	1.002	1.002	98.460	98.5	NO
26	26 13C-1,2,3,7,8-PeCDF	9.96e4	1.45e5	1.60	NO	0.805	29.94	29.98	NO	1.138	1.140	85.172	85.2	NO
27	27 13C-2,3,4,7,8-PeCDF	9.57e4	1.45e5	1.61	NO	0.792	30.88	30.97	NO	1.174	1.178	83.181	83.2	NO
28	28 13C-1,2,3,4,7,8-HxCDF	7.27e4	7.67e4	0.48	NO	0.997	33.55	33.58	NO	0.985	0.986	94.994	95.0	NO
29	29 13C-1,2,3,6,7,8-HxCDF	8.00e4	7.67e4	0.50	NO	1.03	33.72	33.72	NO	0.990	0.990	101.34	101	NO
30	30 13C-2,3,4,6,7,8-HxCDF	6.57e4	7.67e4	0.51	NO	0.940	34.43	34.42	NO	1.011	1.011	91.063	91.1	NO
31	31 13C-1,2,3,7,8,9-HxCDF	5.74e4	7.67e4	0.49	NO	0.852	35.53	35.55	NO	1.044	1.044	87.768	87.8	NO

Dataset: U:\VG7.PRO\Results\210517D2\210517D2-1.qld

Last Altered: Monday, May 24, 2021 16:20:09 Pacific Daylight Time

Printed: Monday, May 24, 2021 16:34:20 Pacific Daylight Time

Name: 210517D2\_1, Date: 17-May-2021, Time: 13:49:26, ID: ST210517D2-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.77e4	7.67e4	0.40	NO	0.727	37.08	37.14	NO	1.089	1.091	85.415	85.4	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.74e4	7.67e4	0.40	NO	0.608	39.09	39.12	NO	1.148	1.149	80.262	80.3	NO
34	34 13C-OCDF	7.46e4	7.67e4	0.86	NO	0.631	42.26	42.36	NO	1.241	1.244	154.06	77.0	NO
35	35 37Cl-2,3,7,8-TCDD	1.64e4	8.41e4			2.22	26.94	26.97	NO	1.025	1.026	8.7762	87.8	NO
36	36 13C-1,2,3,4-TCDD	8.41e4	8.41e4	0.76	NO	1.00	26.42	26.30	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.45e5	1.45e5	0.77	NO	1.00	25.21	25.06	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	7.67e4	7.67e4	0.50	NO	1.00	34.18	34.05	NO	1.000	1.000	100.00	100	NO

Dataset: Untitled

Last Altered: Tuesday, May 18, 2021 07:50:08 Pacific Daylight Time

Printed: Tuesday, May 18, 2021 07:50:23 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07

Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

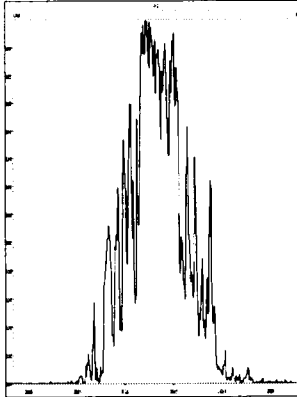
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	210517D2_1	ST210517D2-1 1613 CS3 21C0105	17-May-21	13:49:26
2	210517D2_2	SOLVENT BLANK	17-May-21	14:35:04
3	210517D2_3	2104305-07 USMPDI-025SC-A-13-14-210428 ...	17-May-21	15:21:45
4	210517D2_4	2104305-08 USMPDI-025SC-A-14-15.1-21042...	17-May-21	16:08:30
5	210517D2_5	2104305-09 USMPDI-052SC-A-10-11-210428 ...	17-May-21	16:55:12
6	210517D2_6	2104305-10 USMPDI-052SC-A-11-12.2-21042...	17-May-21	17:41:52
7	210517D2_7	2104305-11 USMPDI-053SC-A-11-12-210428 ...	17-May-21	18:28:30
8	210517D2_8	2104305-12 USMPDI-053SC-A-12-13.1-21042...	17-May-21	19:15:10
9	210517D2_9	2105019-01 043021 S1-1 27.87	17-May-21	20:01:50
10	210517D2_10	2105019-01@10X 043021 S1-1 27.87	17-May-21	20:48:28
11	210517D2_11	2104304-01@5X USMPDI-033SC-A-14-15-21...	17-May-21	21:35:13
12	210517D2_12	2104304-03@5X USMPDI-041SC-A-14-15-21...	17-May-21	22:21:52
13	210517D2_13	2104304-04@5X USMPDI-041SC-A-15-15.7-2...	17-May-21	23:08:30
14	210517D2_14	2104305-02@5X USMPDI-007SC-A-05-06-21...	17-May-21	23:55:09
15	210517D2_15	2104305-11@5X USMPDI-053SC-A-11-12-21...	18-May-21	00:41:48

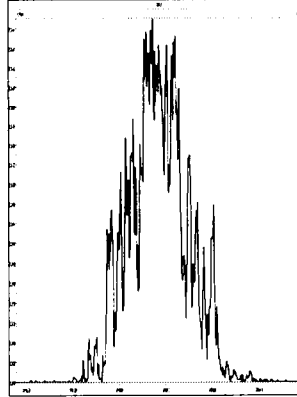
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, May 17, 2021 13:47:00 Pacific Daylight Time

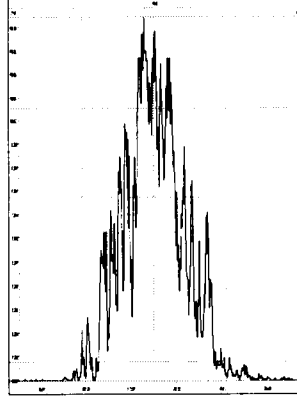
M 292.9824 R 12376



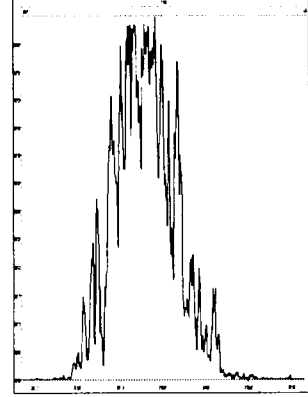
M 304.9824 R 12017



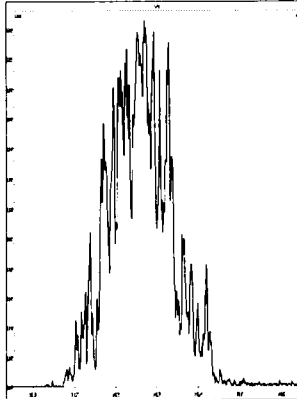
M 318.9792 R 12564



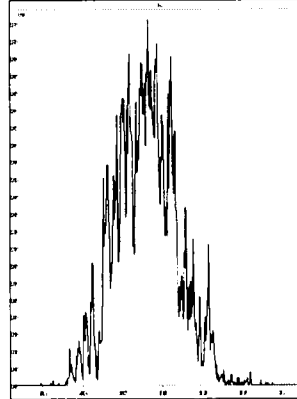
M 330.9792 R 12194



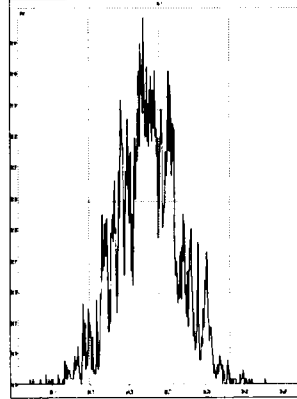
M 342.9792 R 12138



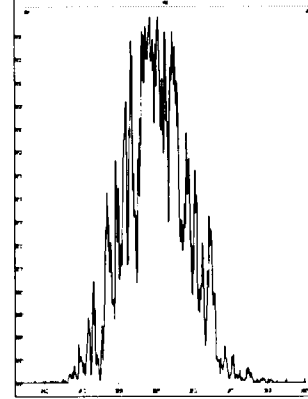
M 354.9792 R 12077



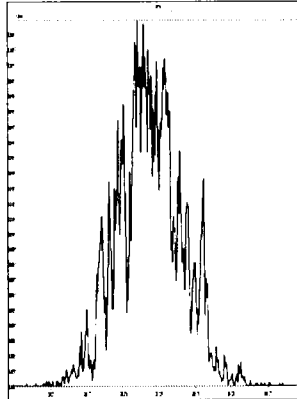
M 366.9792 R 12017



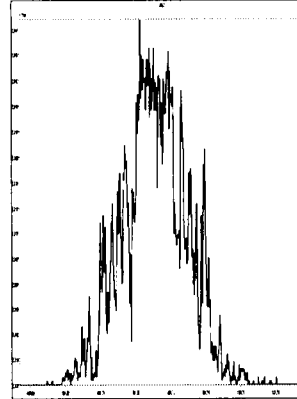
M 380.9760 R 11906



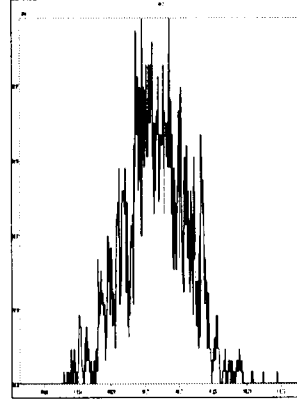
M 392.9760 R 11736



M 404.9760 R 11789



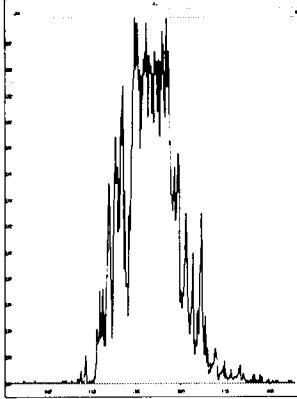
M 416.9760 R 12194



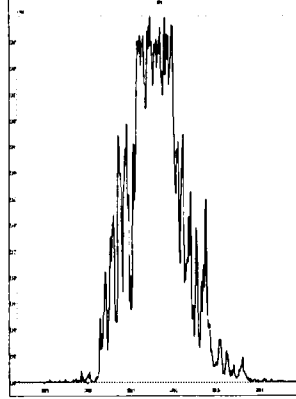
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, May 17, 2021 13:47:22 Pacific Daylight Time

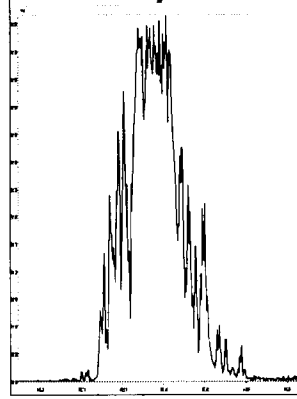
M 318.9792 R 12565



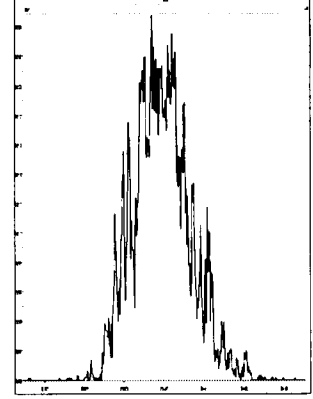
M 330.9792 R 12315



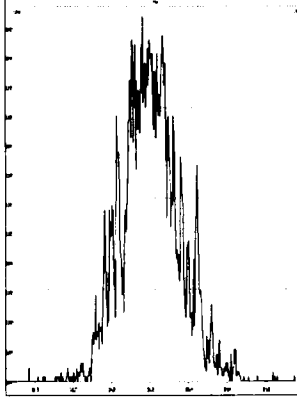
M 342.9792 R 12139



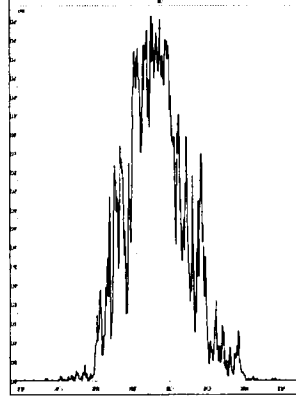
M 354.9792 R 12131



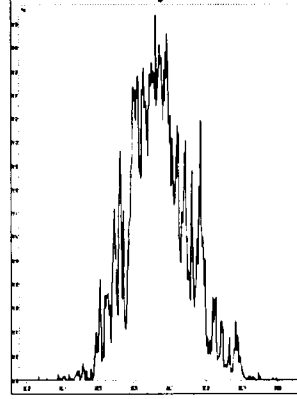
M 366.9792 R 12380



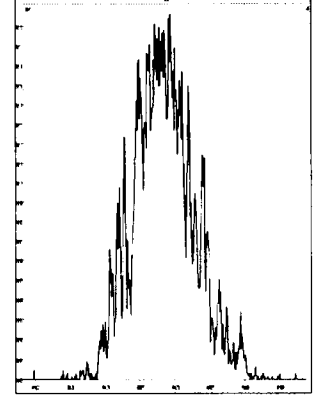
M 380.9760 R 10824



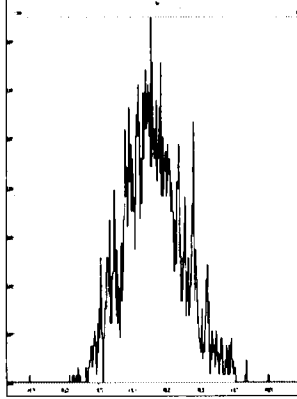
M 392.9760 R 10683



M 404.9760 R 10332



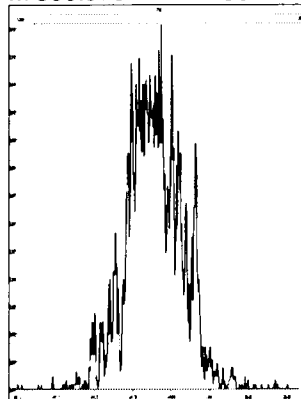
M 416.9760 R 13298



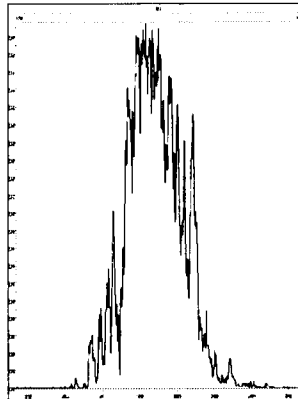
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Printed: Monday, May 17, 2021 13:47:45 Pacific Daylight Time

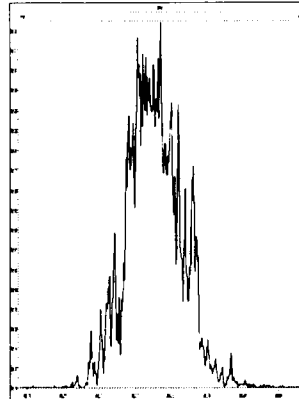
M 366.9792 R 12436



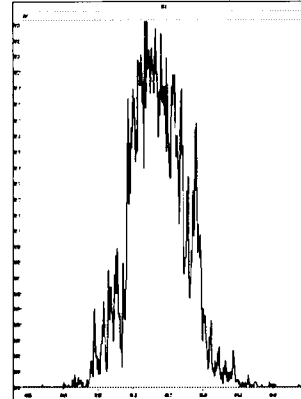
M 380.9760 R 15429



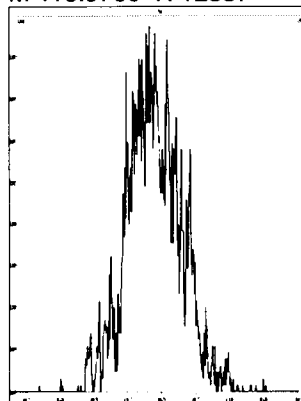
M 392.9760 R 13021



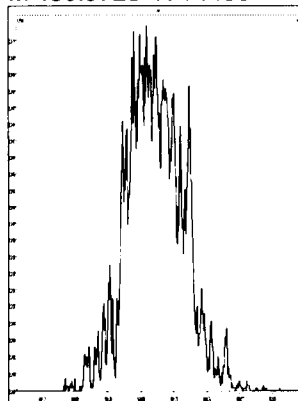
M 404.9760 R 12436



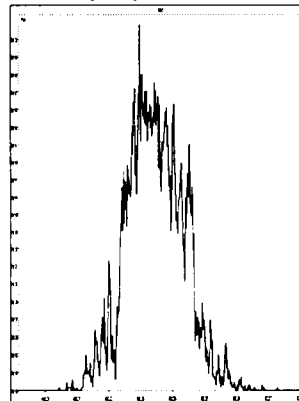
M 416.9760 R 12887



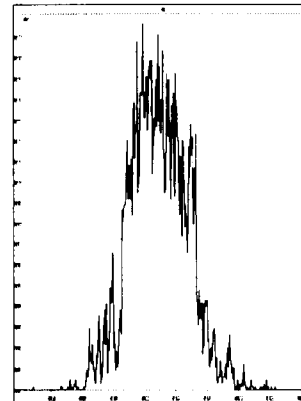
M 430.9728 R 14450



M 442.9728 R 14207



M 454.9728 R 12376

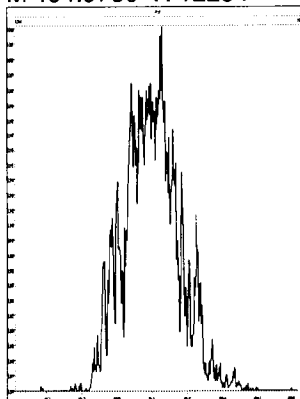




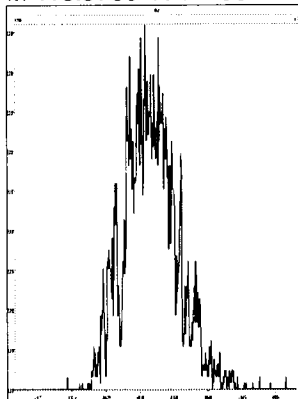
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, May 17, 2021 13:48:02 Pacific Daylight Time

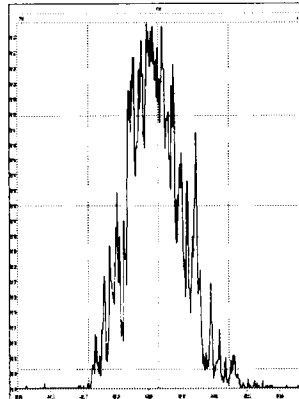
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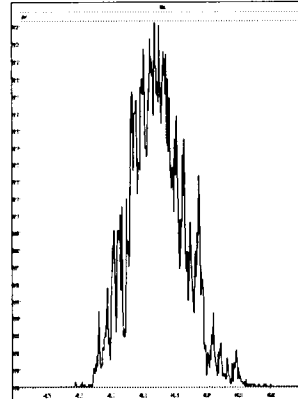
M 416.9760 R 14790



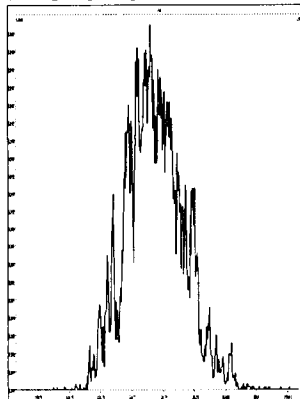
M 430.9728 R 12563



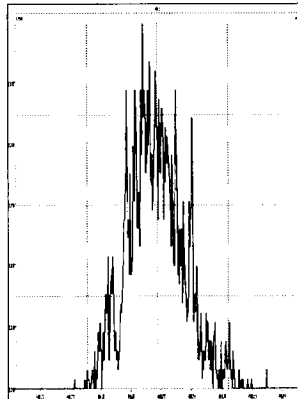
M 442.9728 R 12689



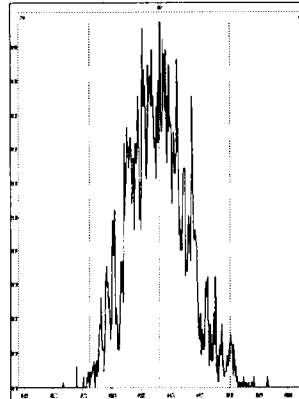
M 454.9728 R 12020



M 466.9728 R 12820



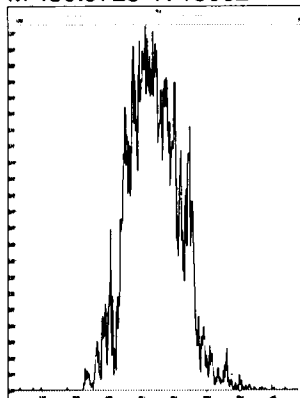
M 480.9696 R 11519



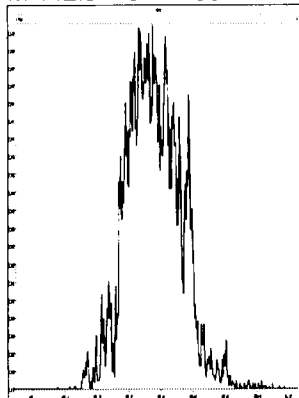
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, May 17, 2021 13:48:24 Pacific Daylight Time

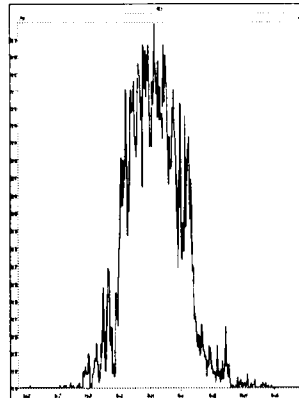
M 430.9728 R 15062



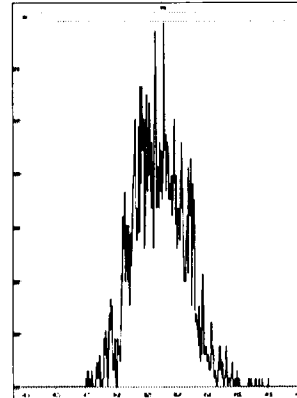
M 442.9728 R 15624



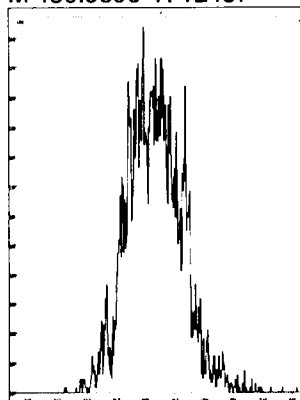
M 454.9728 R 15340



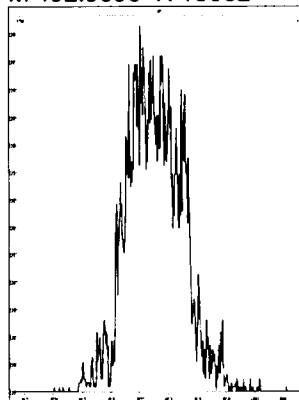
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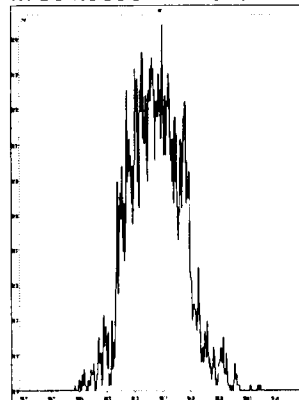
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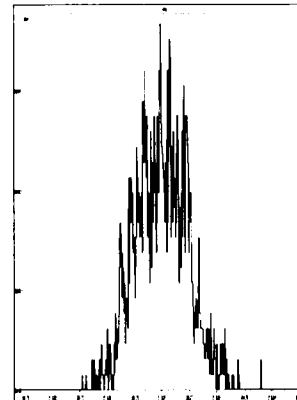
M 492.9696 R 15062



M 504.9696 R 14045



M 516.9697 R 13738



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Printed: Tuesday, May 18, 2021 07:51:12 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSM.mdb 06 Apr 2021 11:04:01

Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210517D2\_1, Date: 17-May-2021, Time: 13:49:26, ID: ST210517D2-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	RT
1	1,3,6,8-TCDD (First)	23.82
2	1,2,8,9-TCDD (Last)	27.73
3	1,2,4,7,9-PeCDD (First)	29.08
4	1,2,3,8,9-PeCDD (Last)	31.47
5	1,2,4,6,7,9-HxCDD (First)	32.79
6	1,2,3,7,8,9-HxCDD (Last)	34.99
7	1,2,3,4,6,7,9-HpCDD (First)	37.46
8	1,2,3,4,6,7,8-HpCDD (Last)	38.43
9	1,3,6,8-TCDF (First)	21.94
10	1,2,8,9-TCDF (Last)	28.02
11	1,3,4,6,8-PeCDF (First)	27.63
12	1,2,3,8,9-PeCDF (Last)	31.83
13	1,2,3,4,6,8-HxCDF (First)	32.23
14	1,2,3,7,8,9-HxCDF (Last)	35.56
15	1,2,3,4,6,7,8-HpCDF (First)	37.16
16	1,2,3,4,7,8,9-HpCDF (Last)	39.13

Dataset: Untitled

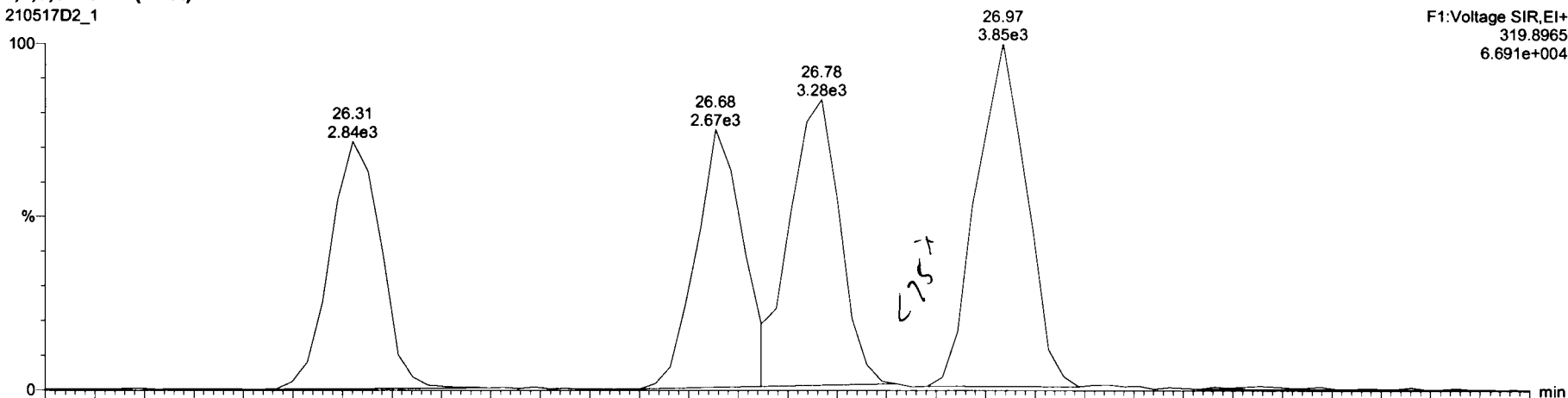
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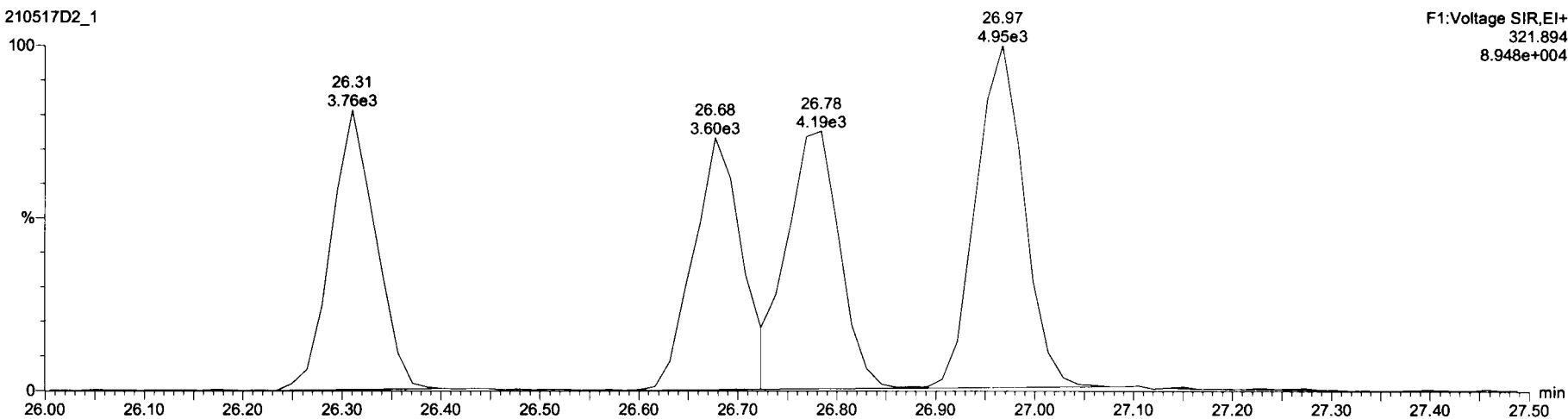
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1,3,6,8-TCDD (First)

210517D2\_1



210517D2\_1



Dataset: Untitled

Last Altered: Tuesday, May 18, 2021 07:51:01 Pacific Daylight Time

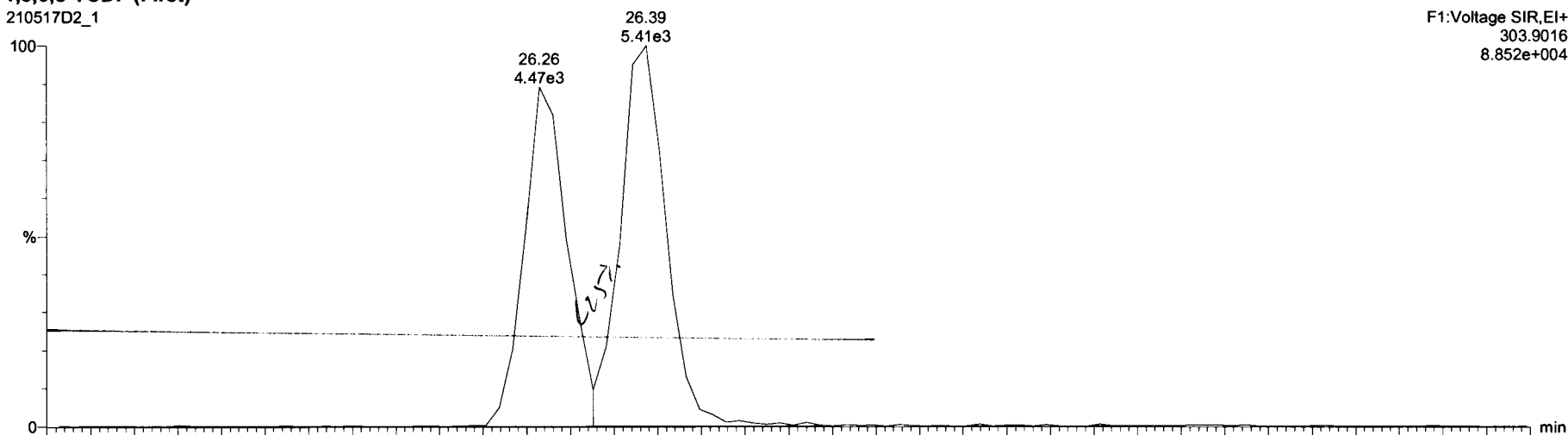
Printed: Tuesday, May 18, 2021 07:51:12 Pacific Daylight Time

Name: 210517D2\_1, Date: 17-May-2021, Time: 13:49:26, ID: ST210517D2-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

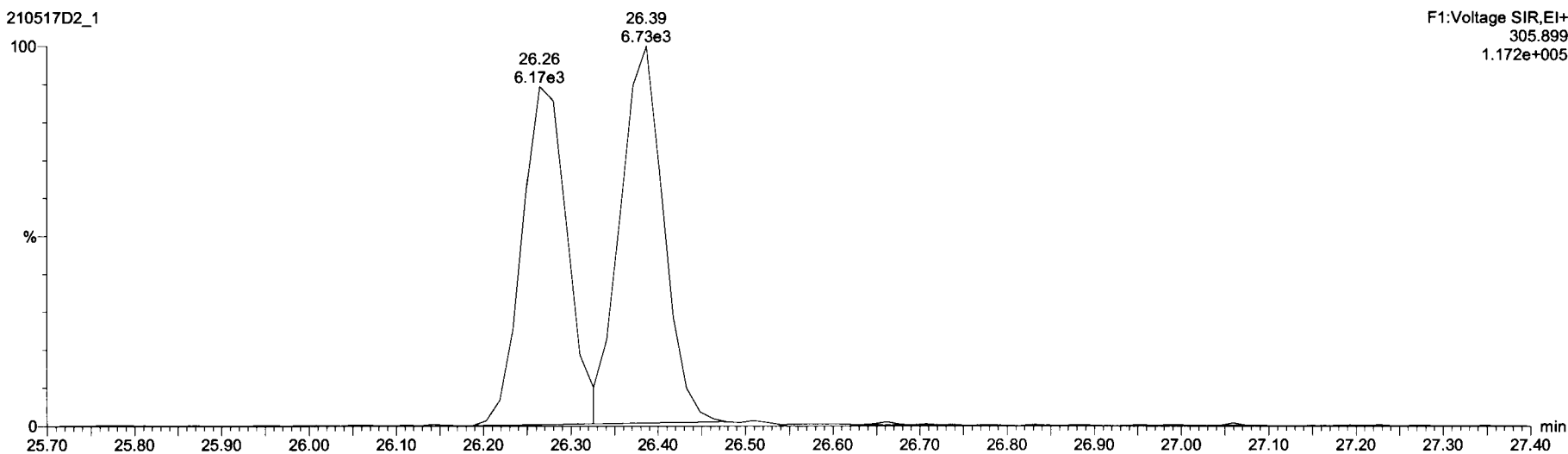
210517D2\_1

F1:Voltage SIR,EI+  
303.9016  
8.852e+004



210517D2\_1

F1:Voltage SIR,EI+  
305.899  
1.172e+005



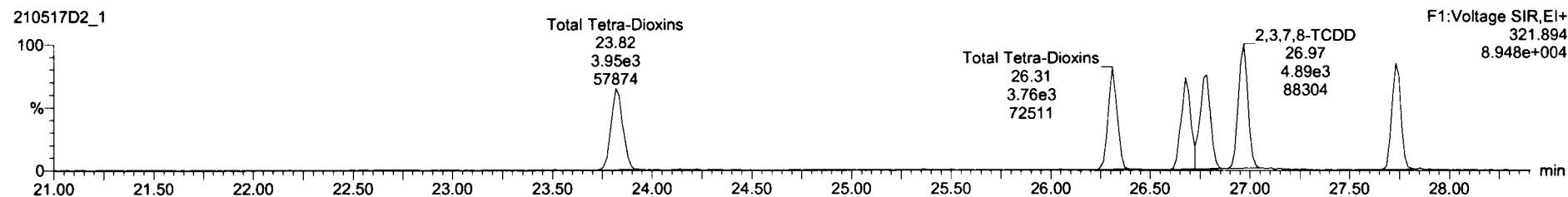
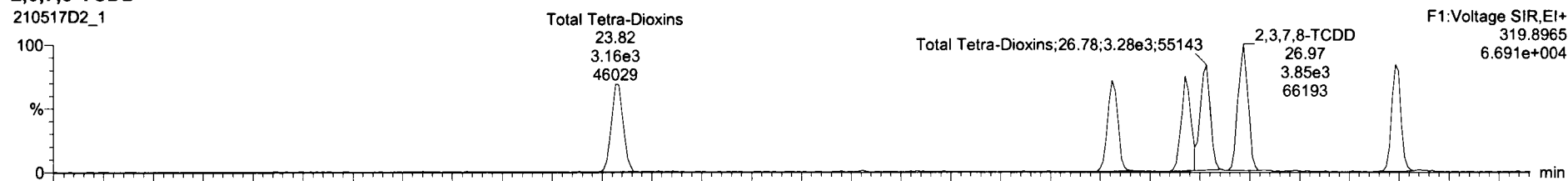
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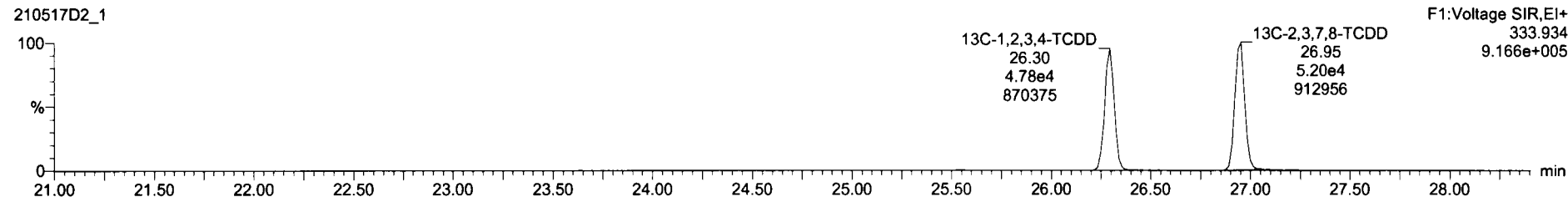
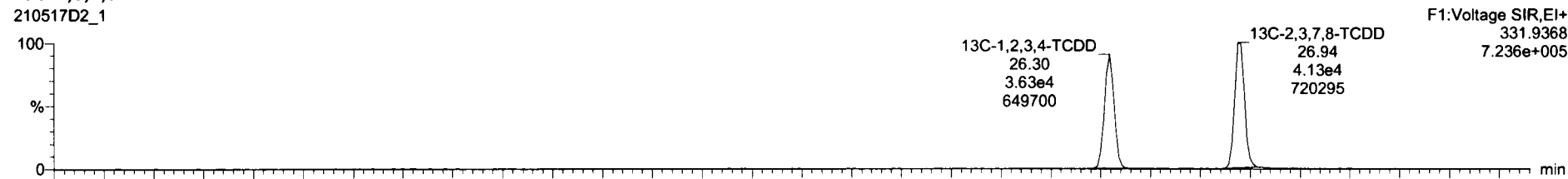
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Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210517D2\_1, Date: 17-May-2021, Time: 13:49:26, ID: ST210517D2-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

### 2,3,7,8-TCDD



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



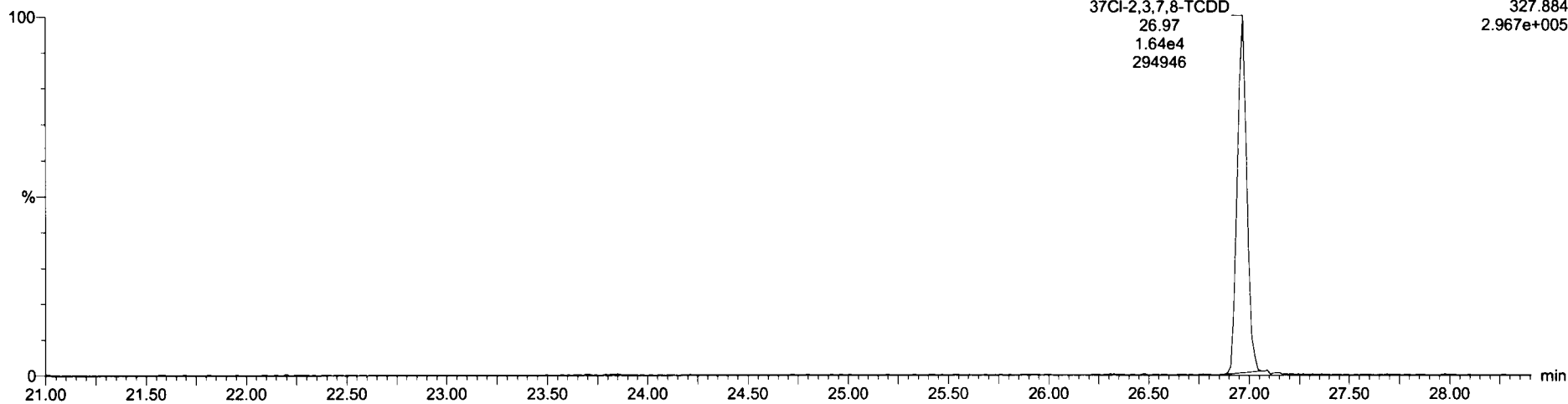
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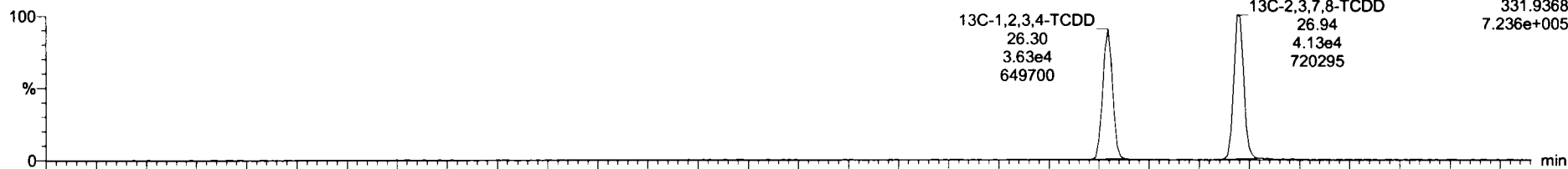
**37Cl-2,3,7,8-TCDD**

210517D2\_1

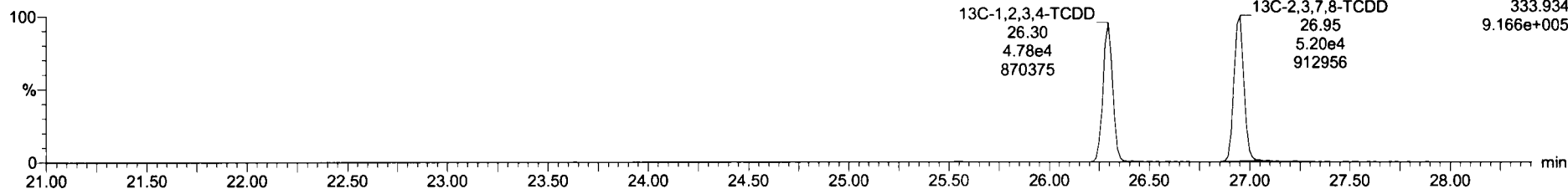


**13C-1,2,3,4-TCDD**

210517D2\_1



210517D2\_1

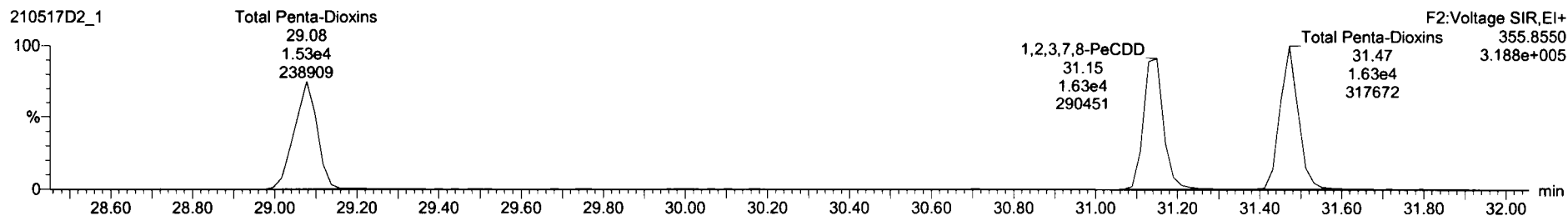
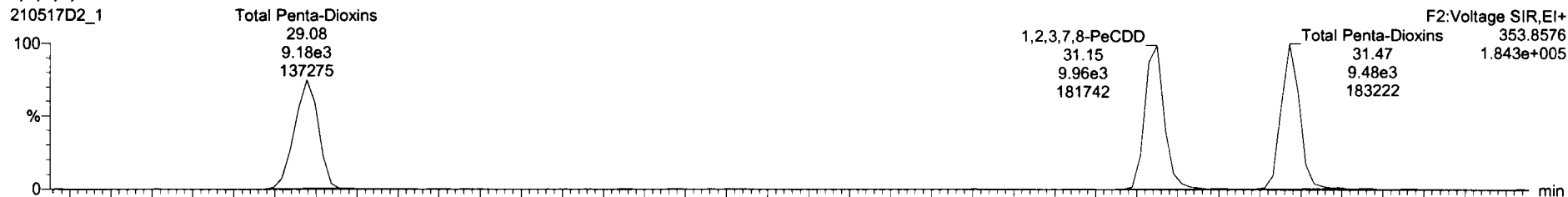


Dataset: Untitled

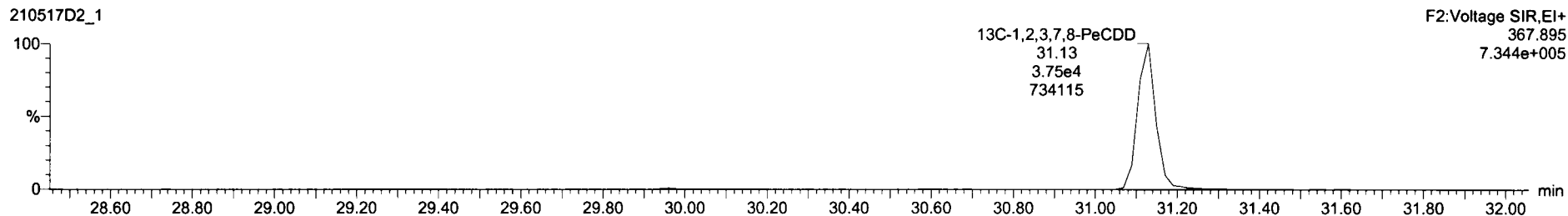
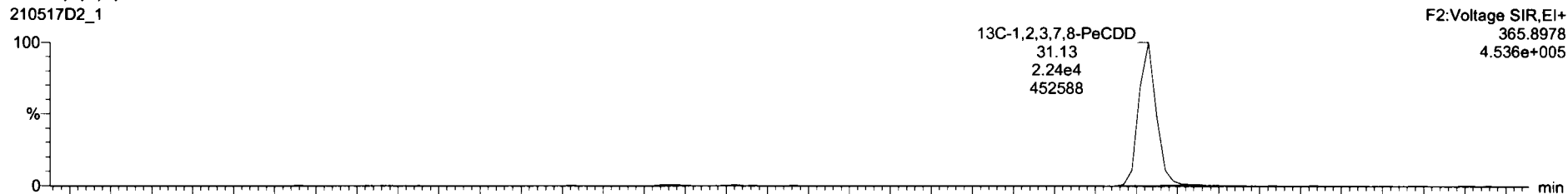
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Printed: Tuesday, May 18, 2021 07:50:12 Pacific Daylight Time

Name: 210517D2\_1, Date: 17-May-2021, Time: 13:49:26, ID: ST210517D2-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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



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



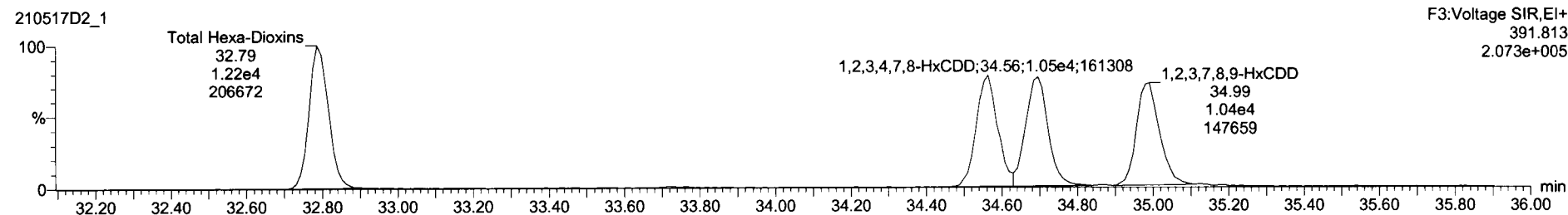
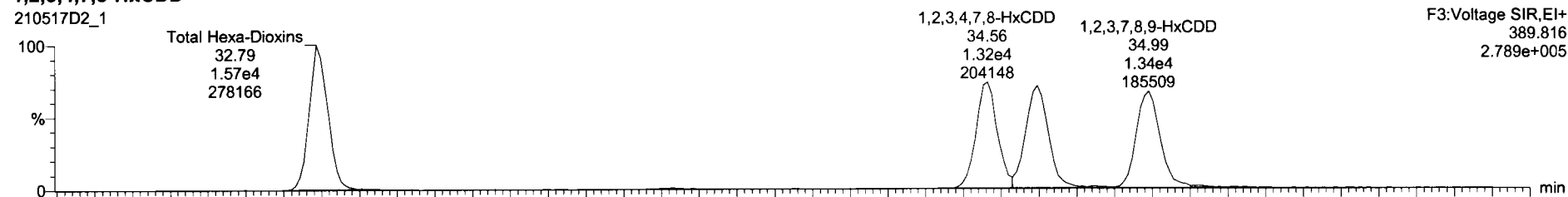


Dataset: Untitled

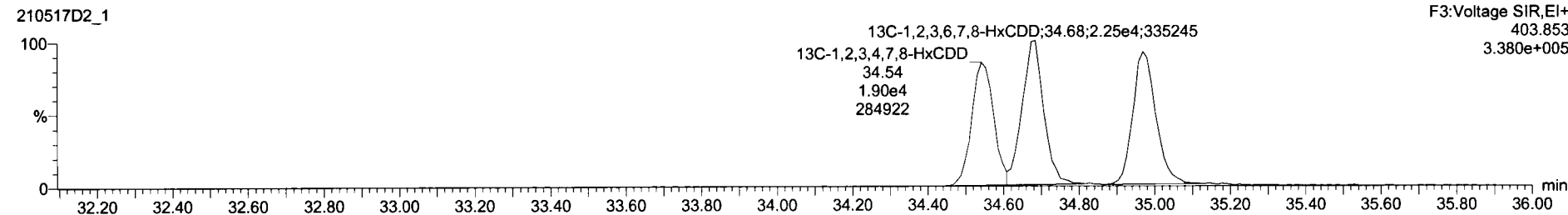
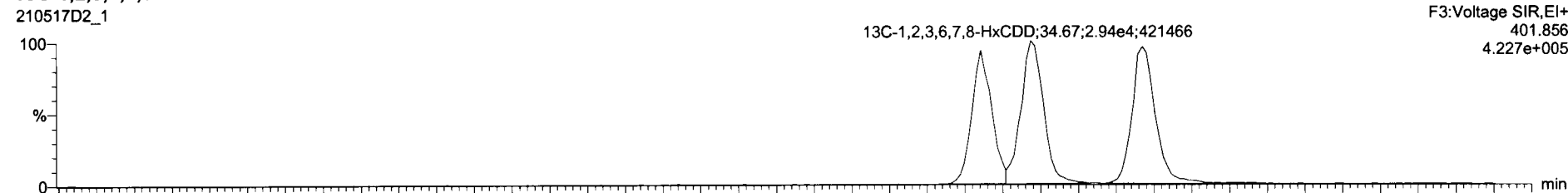
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Name: 210517D2\_1, Date: 17-May-2021, Time: 13:49:26, ID: ST210517D2-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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



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



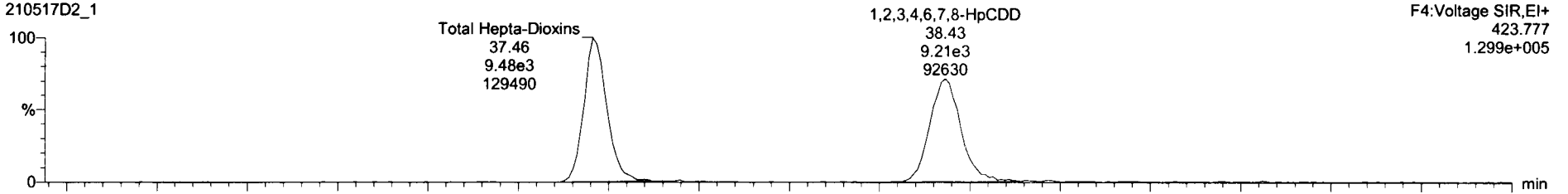
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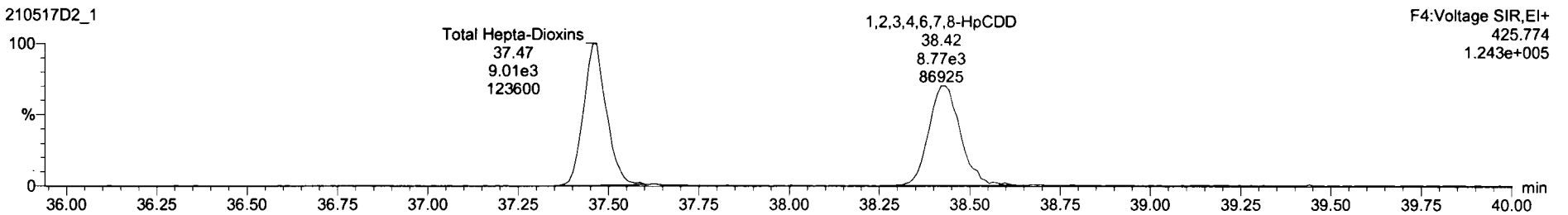
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1,2,3,4,6,7,8-HpCDD

210517D2\_1

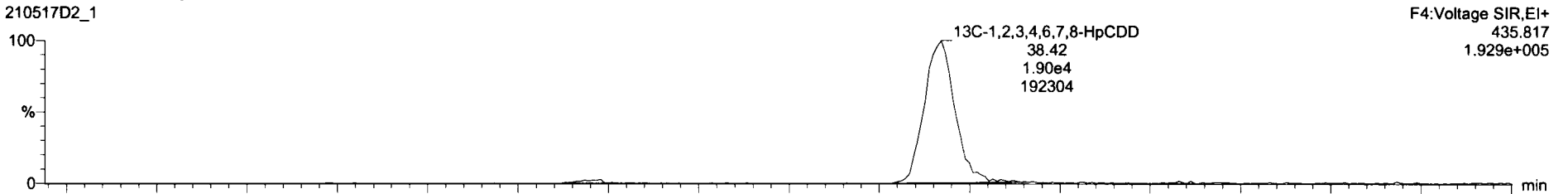


210517D2\_1

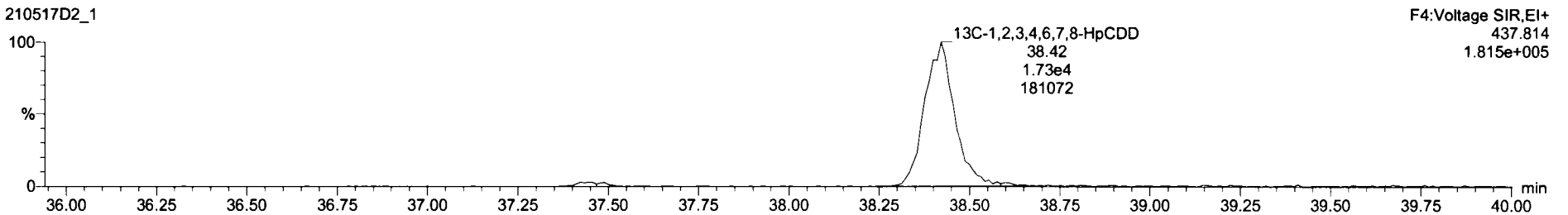


13C-1,2,3,4,6,7,8-HpCDD

210517D2\_1



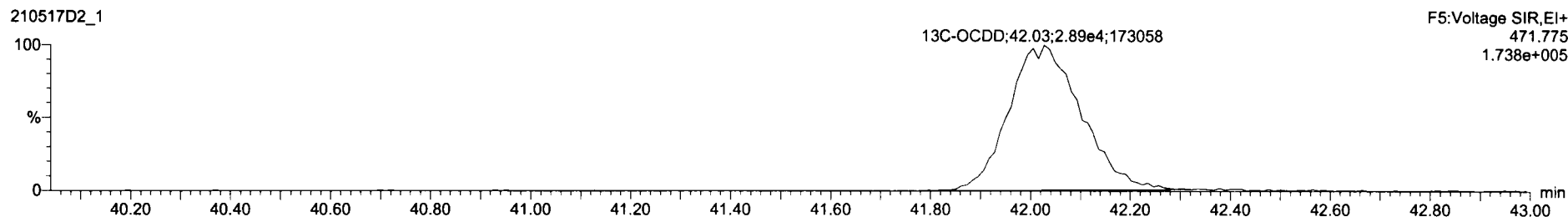
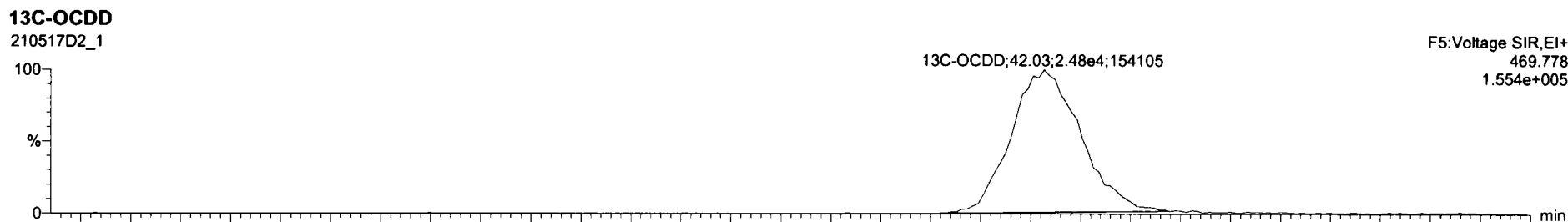
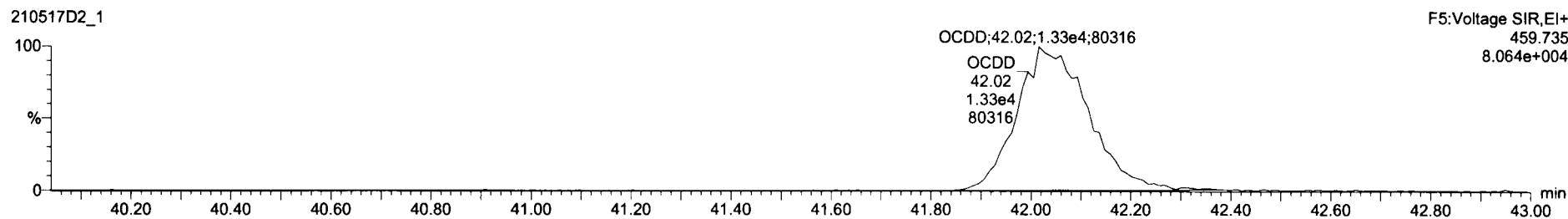
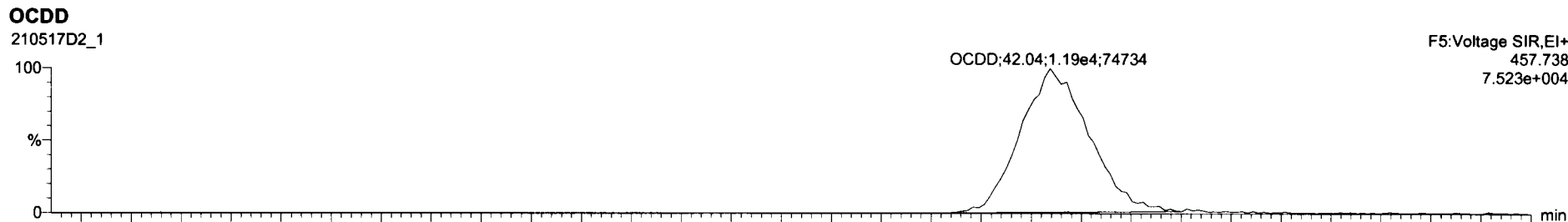
210517D2\_1



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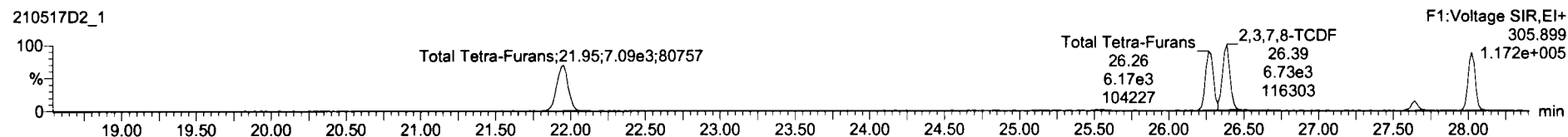


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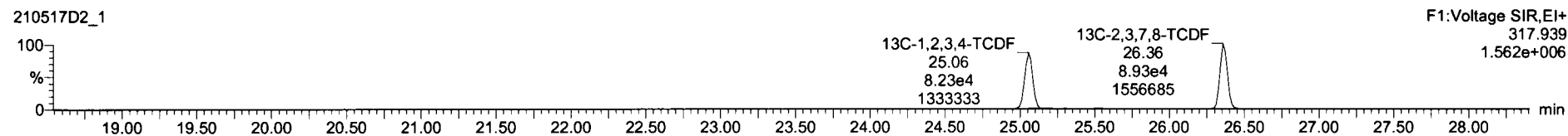
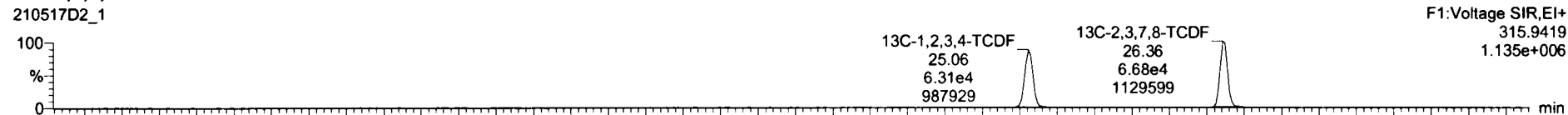
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Printed: Tuesday, May 18, 2021 07:50:12 Pacific Daylight Time

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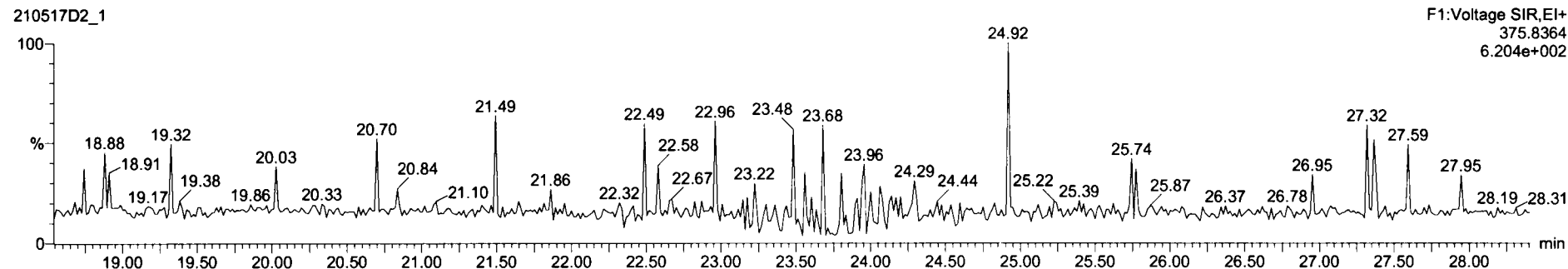
**2,3,7,8-TCDF**



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



**DPE1**



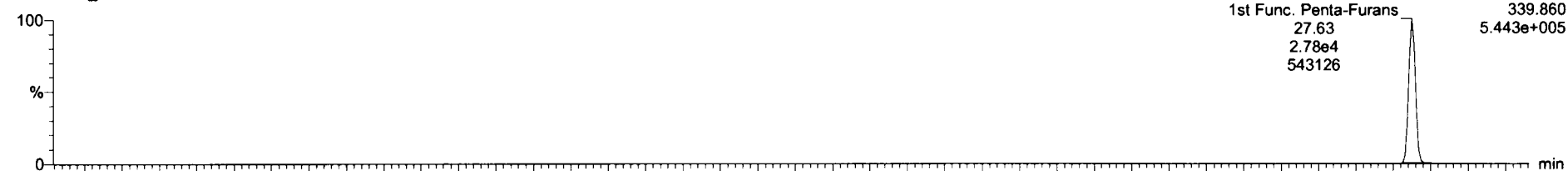
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Printed: Tuesday, May 18, 2021 07:50:12 Pacific Daylight Time

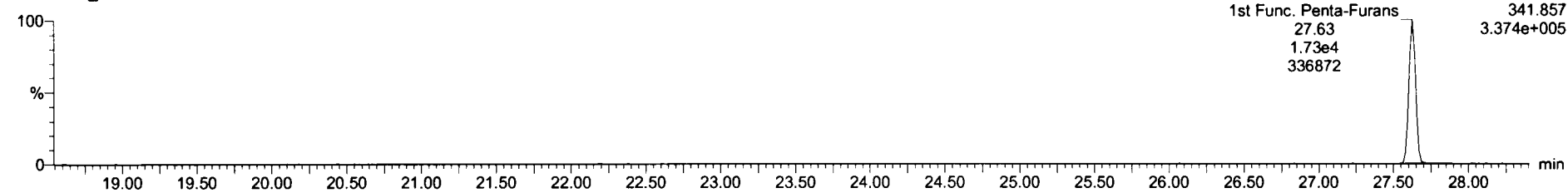
Name: 210517D2\_1, Date: 17-May-2021, Time: 13:49:26, ID: ST210517D2-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1st Func. Penta-Furans

210517D2\_1

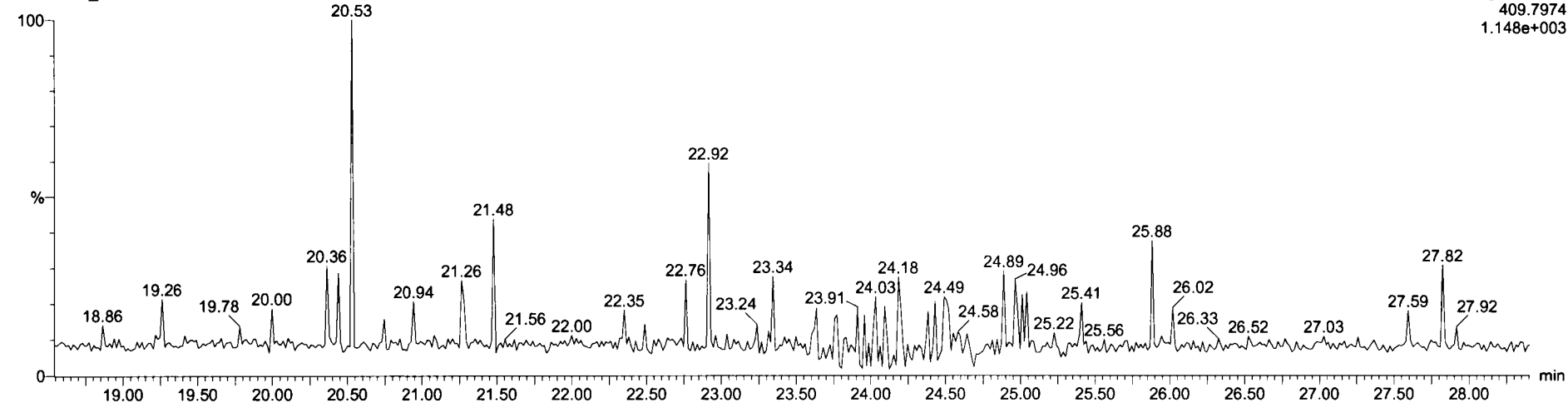


210517D2\_1



DPE6

210517D2\_1



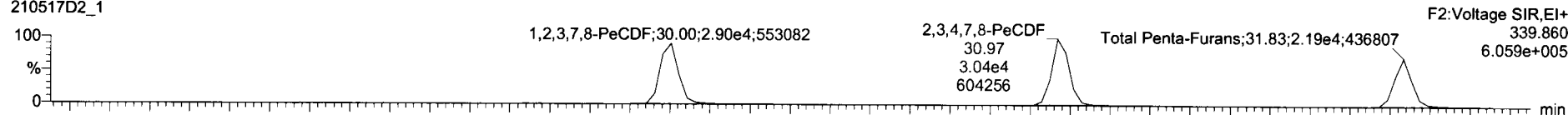
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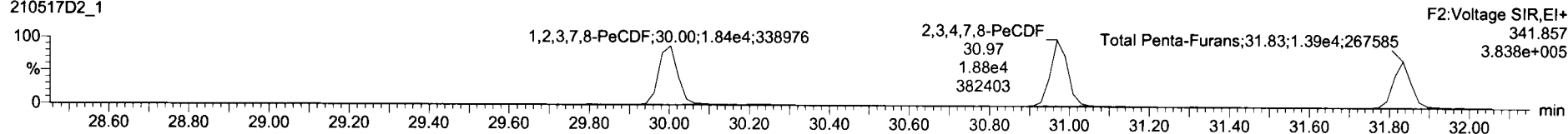
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**1,2,3,7,8-PeCDF**

210517D2\_1

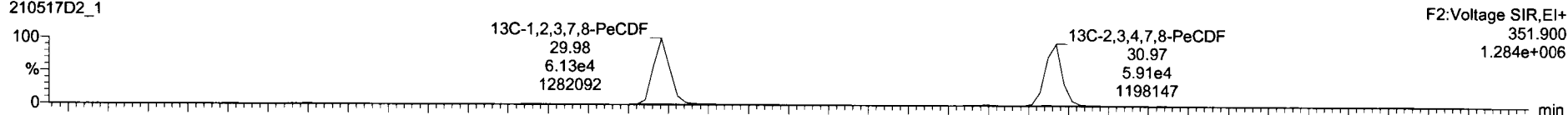


210517D2\_1

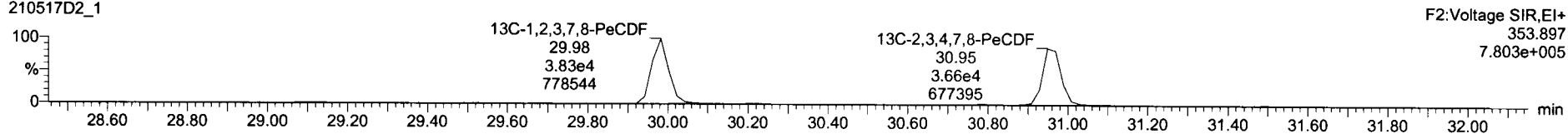


**13C-1,2,3,7,8-PeCDF**

210517D2\_1

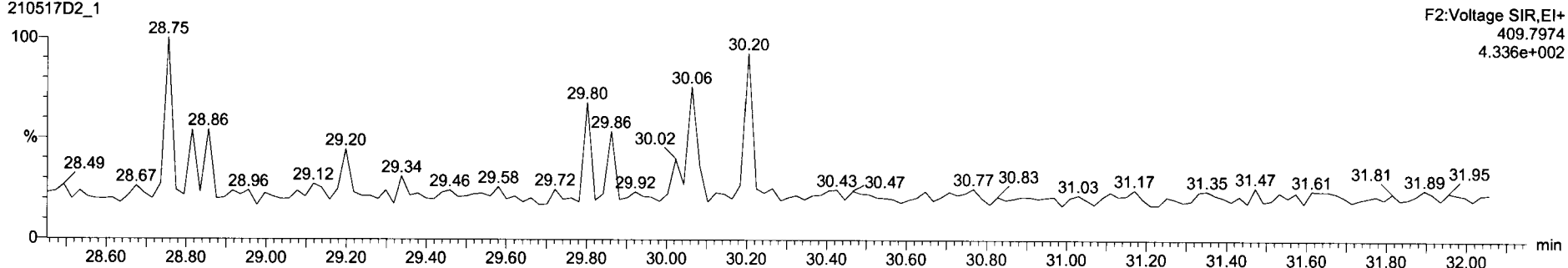


210517D2\_1



**DPE2**

210517D2\_1



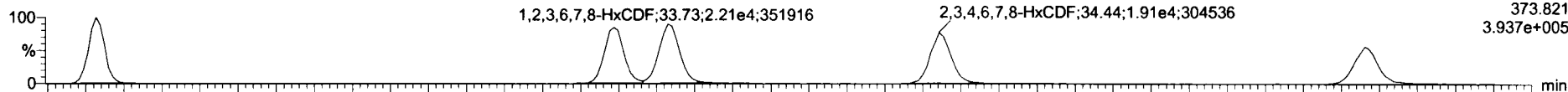
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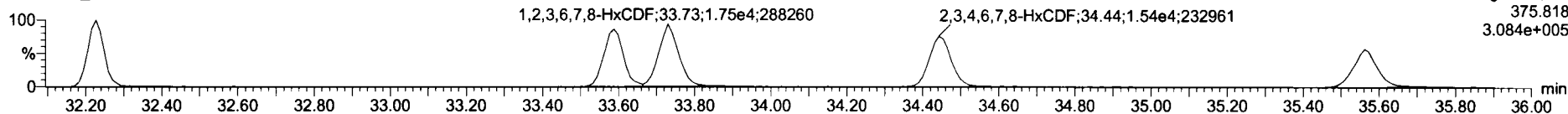
**1,2,3,4,7,8-HxCDF**

210517D2\_1



F3: Voltage SIR, EI+  
373.821  
3.937e+005

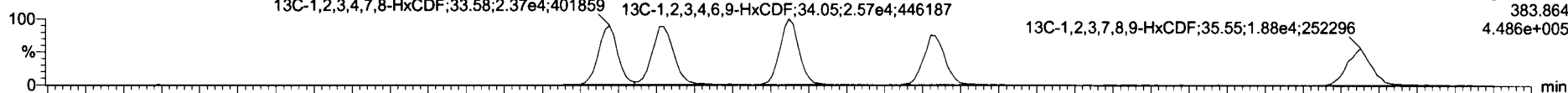
210517D2\_1



F3: Voltage SIR, EI+  
375.818  
3.084e+005

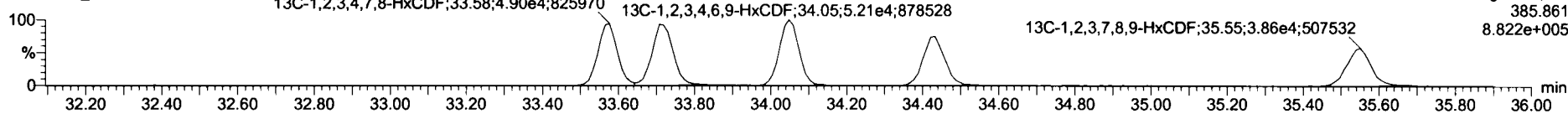
**13C-1,2,3,4,7,8-HxCDF**

210517D2\_1



F3: Voltage SIR, EI+  
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4.486e+005

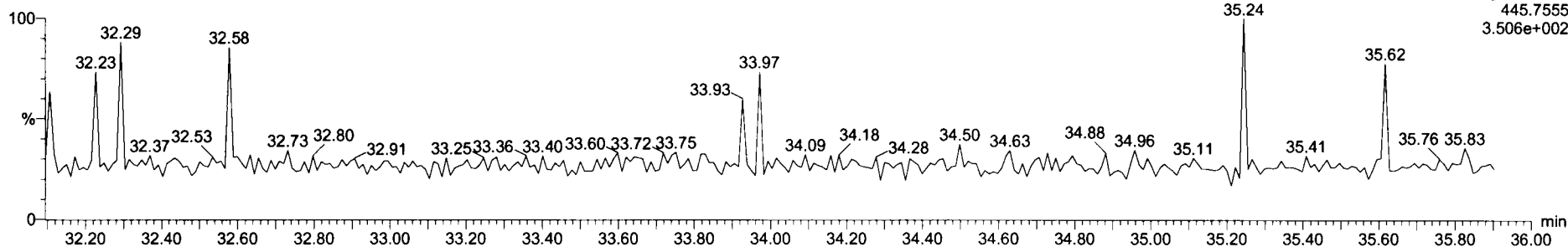
210517D2\_1



F3: Voltage SIR, EI+  
385.861  
8.822e+005

**DPE3**

210517D2\_1



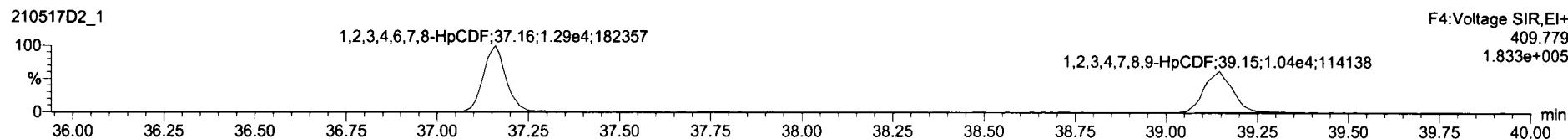
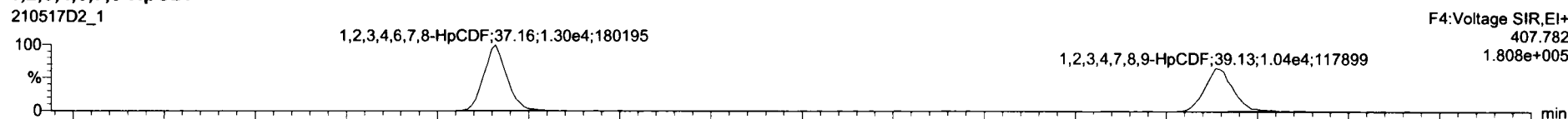
F3: Voltage SIR, EI+  
445.7555  
3.506e+002

Dataset: Untitled

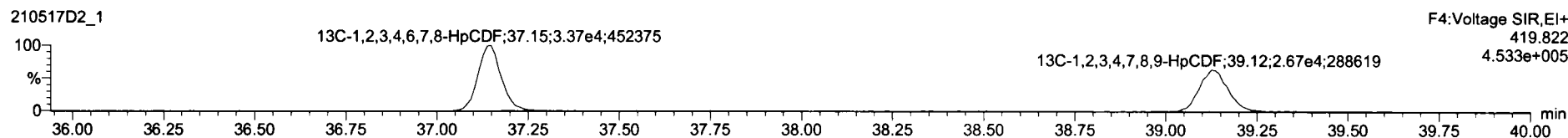
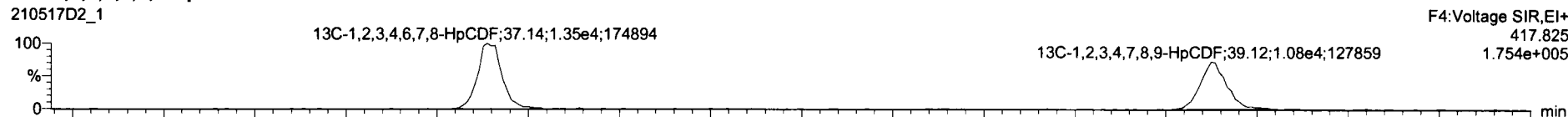
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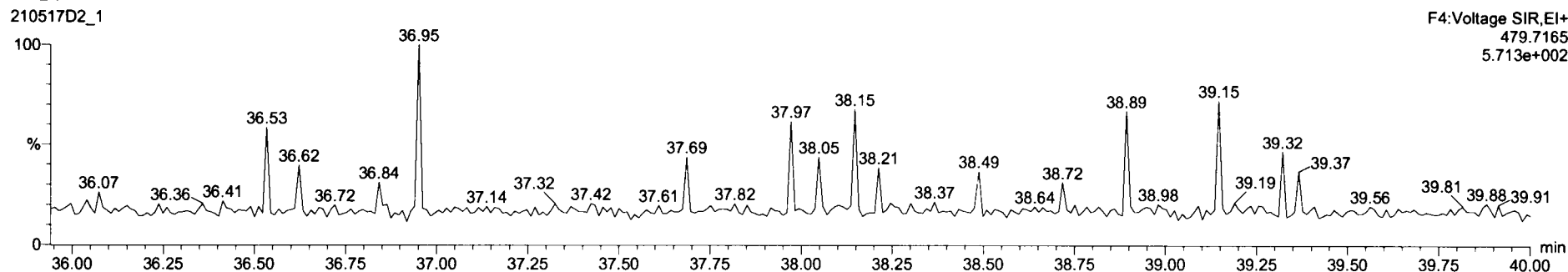
**1,2,3,4,6,7,8-HpCDF**



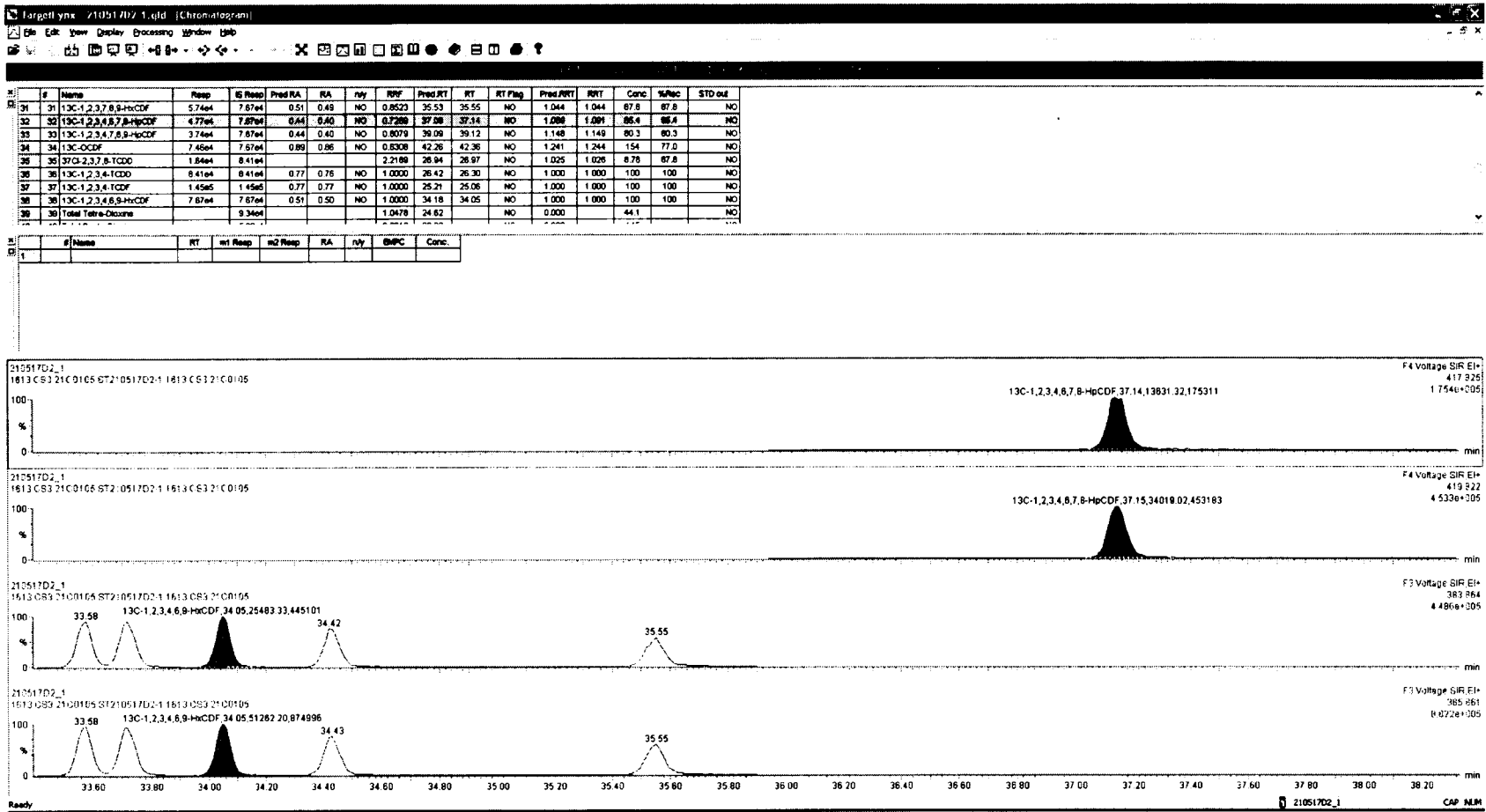
**13C-1,2,3,4,6,7,8-HpCDF**



**DPE4**







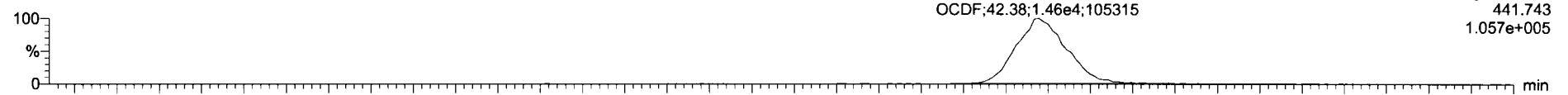
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Last Altered: Tuesday, May 18, 2021 07:50:08 Pacific Daylight Time  
Printed: Tuesday, May 18, 2021 07:50:12 Pacific Daylight Time

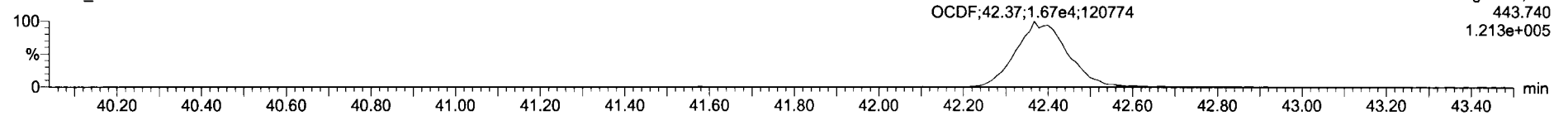
Name: 210517D2\_1, Date: 17-May-2021, Time: 13:49:26, ID: ST210517D2-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

**OCDF**

210517D2\_1

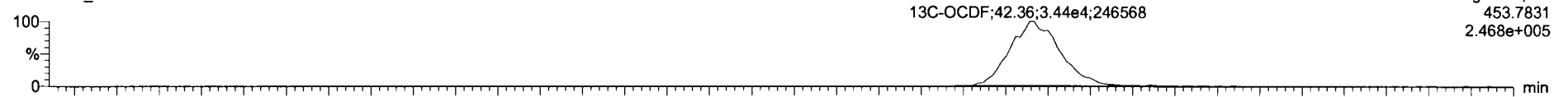


210517D2\_1

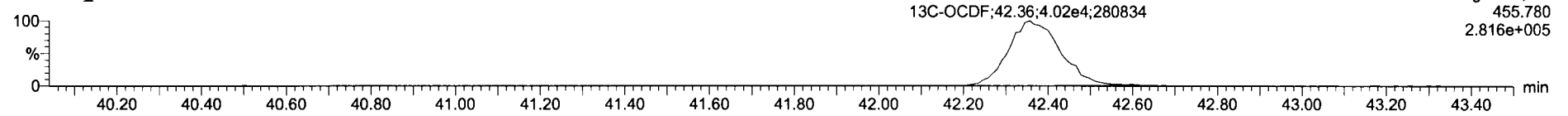


**13C-OCDF**

210517D2\_1

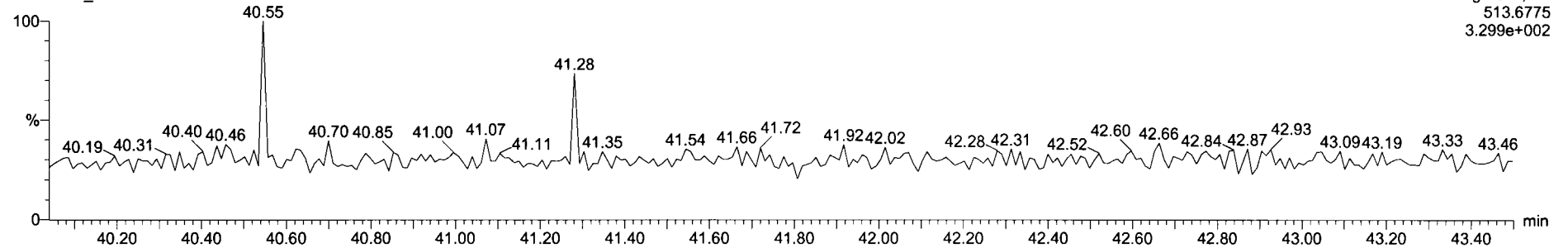


210517D2\_1



**DPE5**

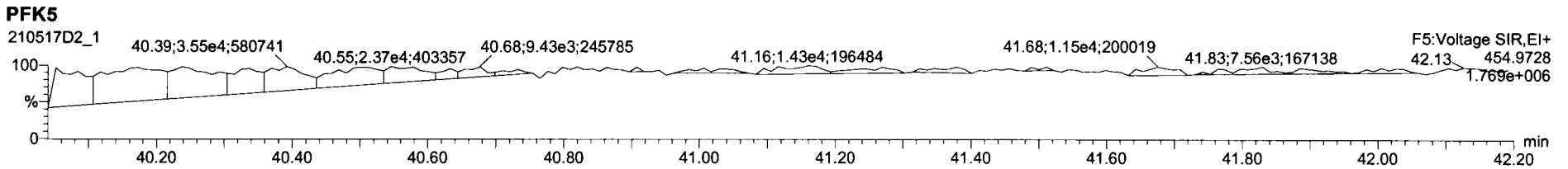
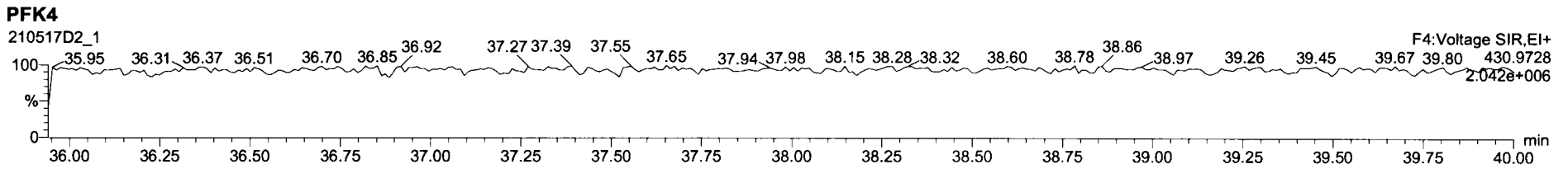
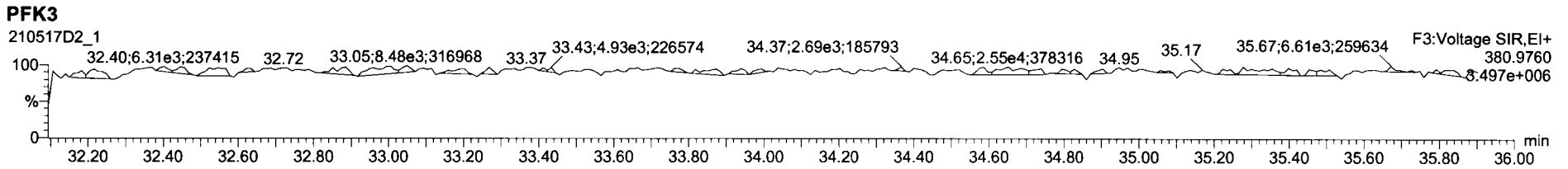
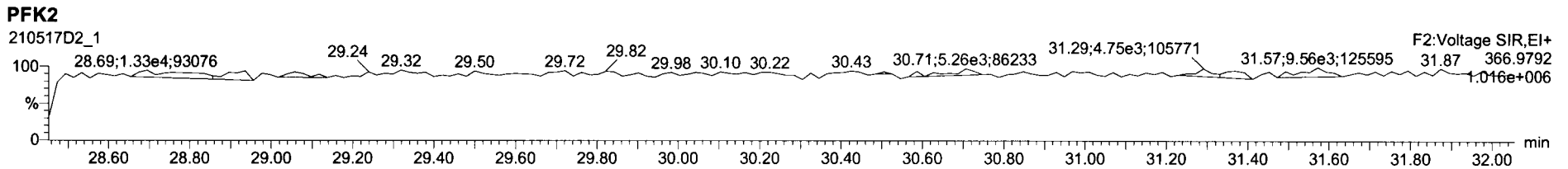
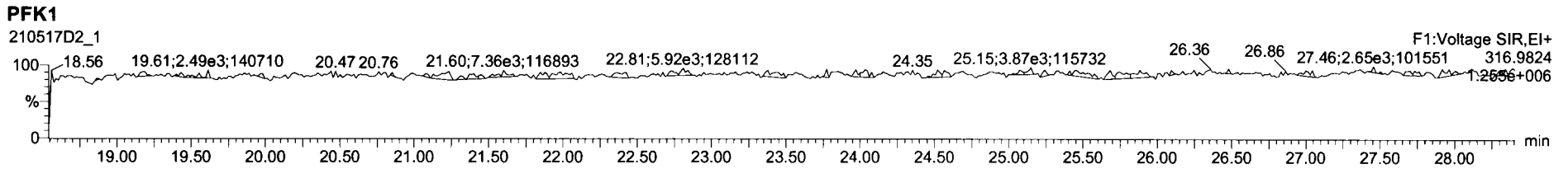
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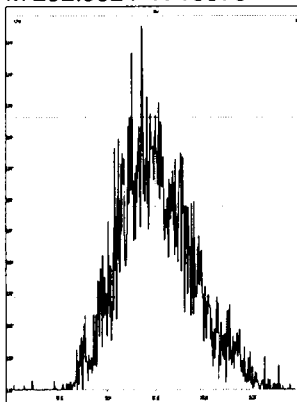
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Printed: Tuesday, May 18, 2021 07:50:12 Pacific Daylight Time

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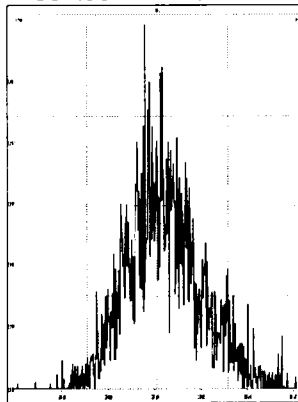


Printed: Tuesday, May 18, 2021 07:38:09 Pacific Daylight Time

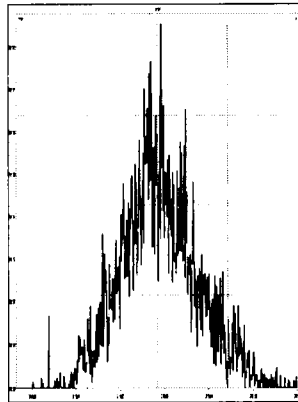
M 292.9824 R 10375



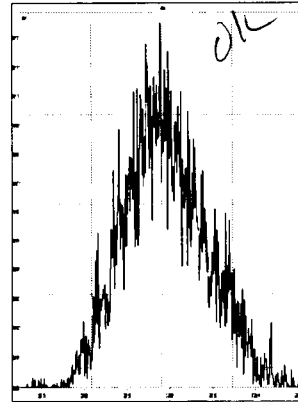
M 304.9824 R 10463



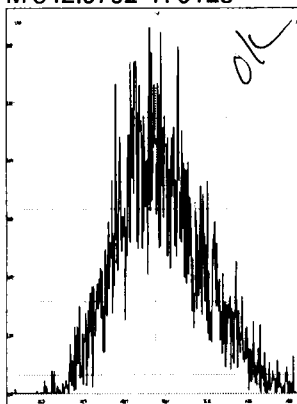
M 318.9792 R 10059



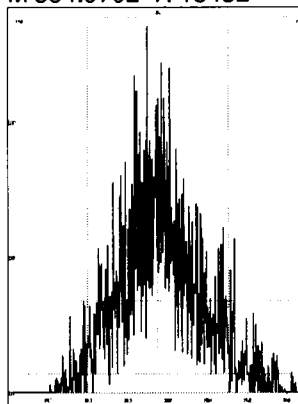
M 330.9792 R 8793



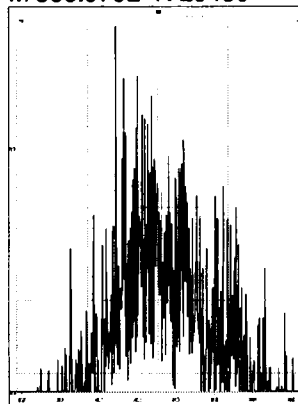
M 342.9792 R 9123



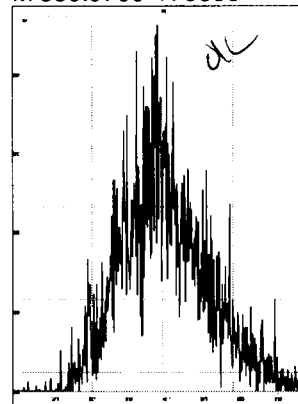
M 354.9792 R 15432



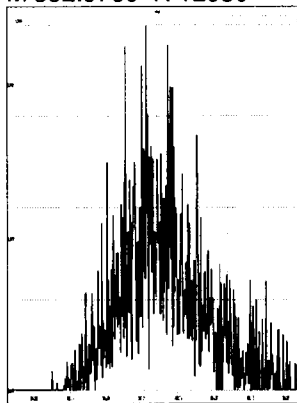
M 366.9792 R 29430



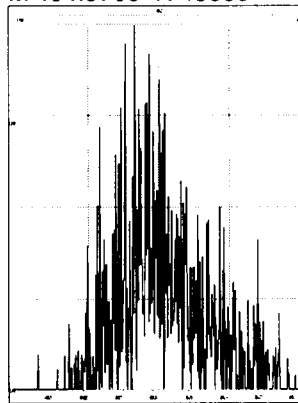
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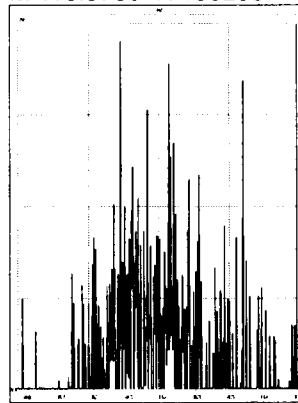
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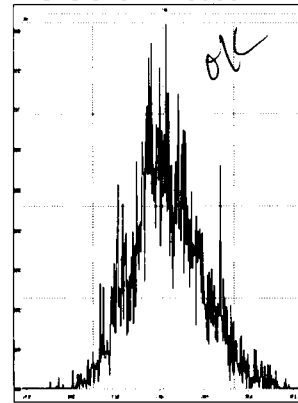
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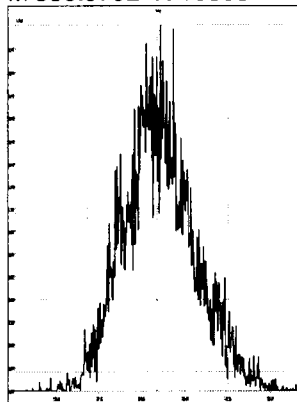
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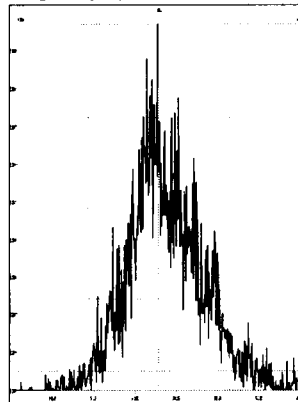
M 318.9792 R 9956



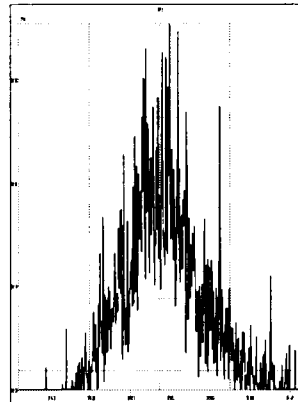
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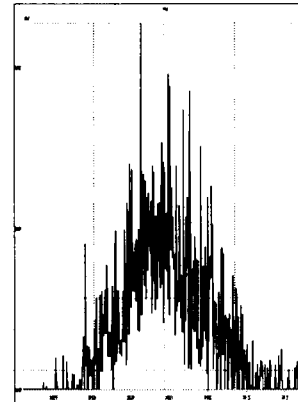
M 342.9792 R 10081



M 354.9792 R 12760

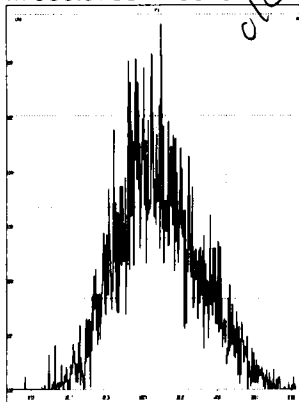


M 366.9792 R 19059

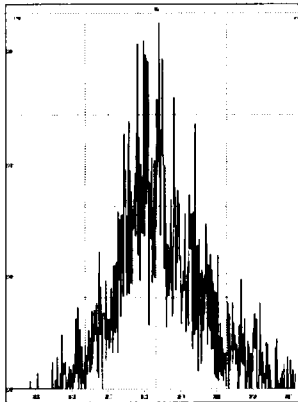


Printed: Tuesday, May 18, 2021 07:38:09 Pacific Daylight Time

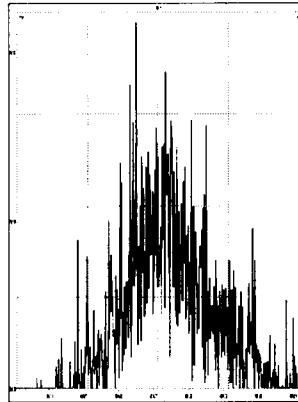
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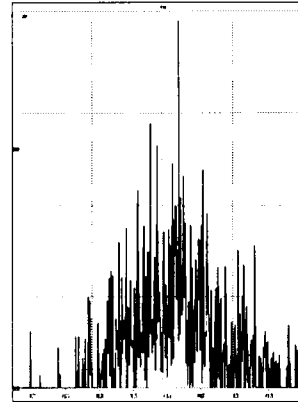
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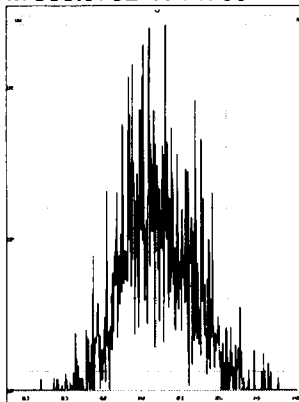
M 404.9760 R 25638



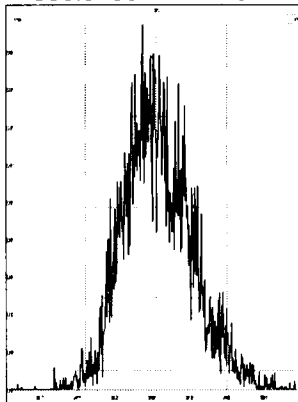
M 416.9760 R 83150



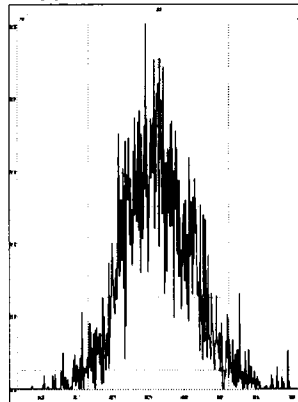
M 366.9792 R 14766



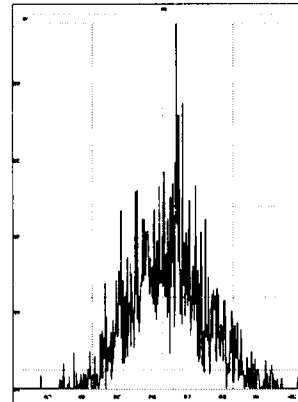
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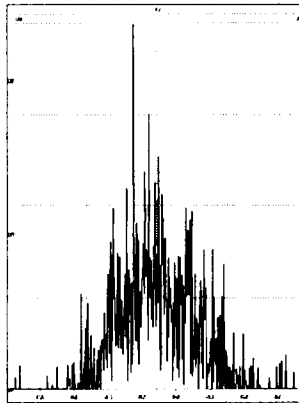
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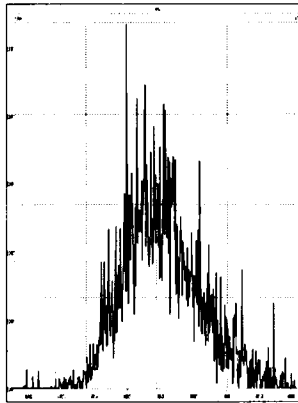
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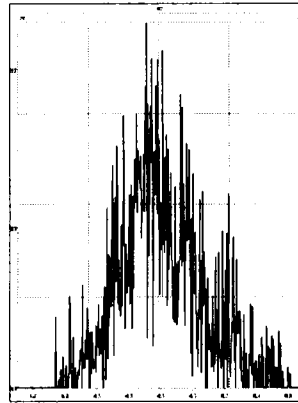
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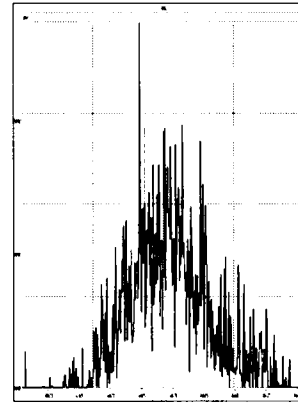
M 430.9728 R 11261



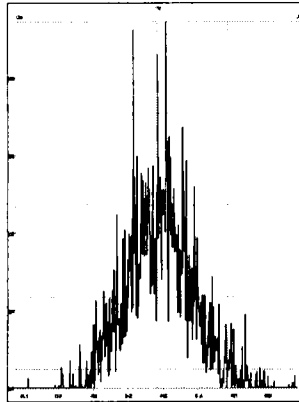
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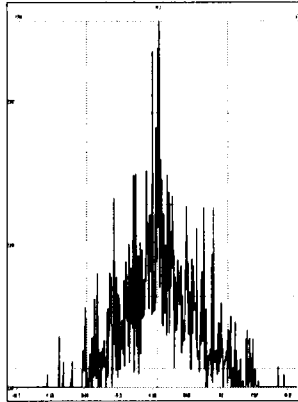
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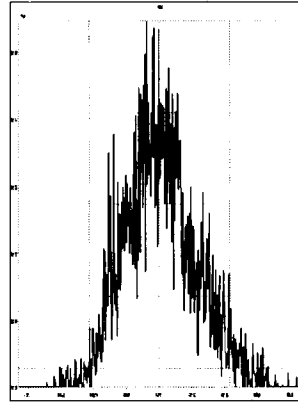
M 404.9760 R 13205



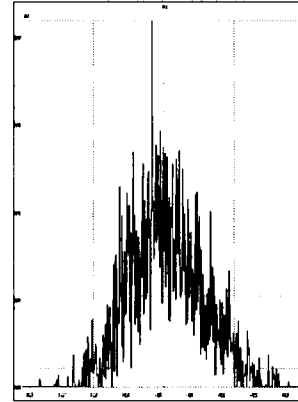
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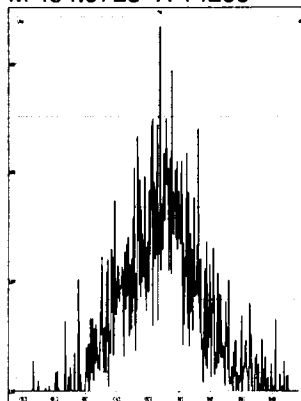
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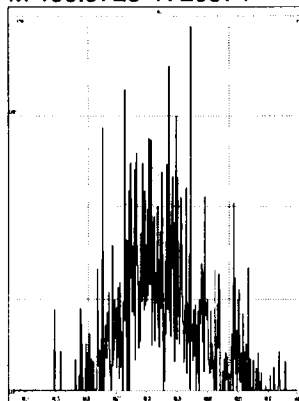
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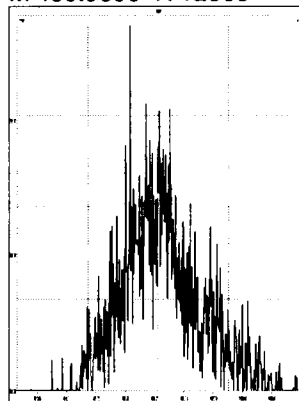
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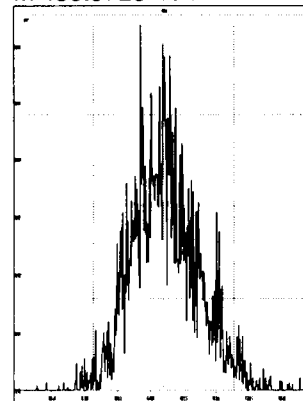
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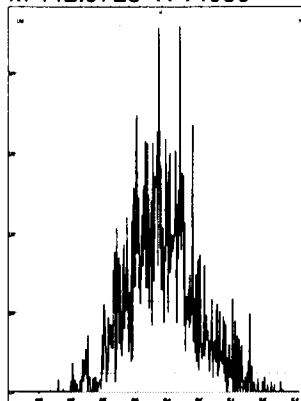
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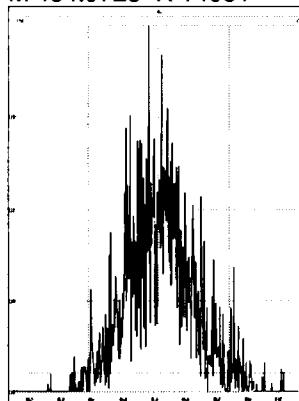
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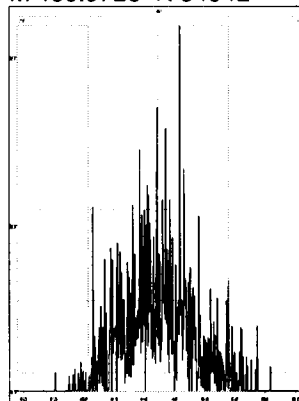
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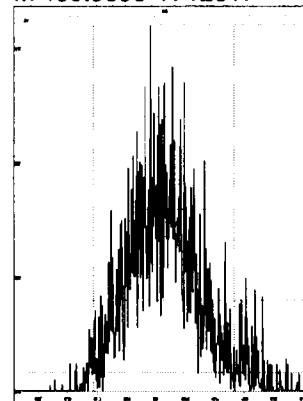
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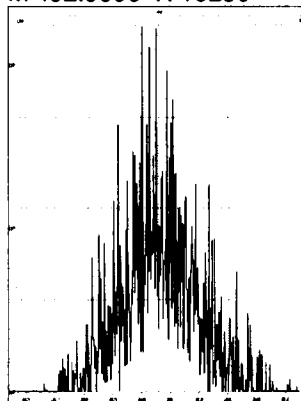
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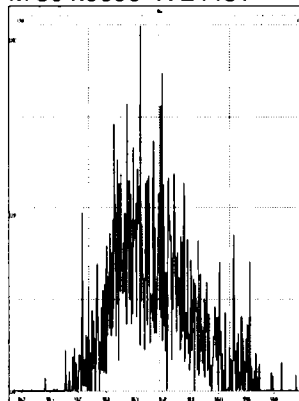
M 480.9696 R 12617



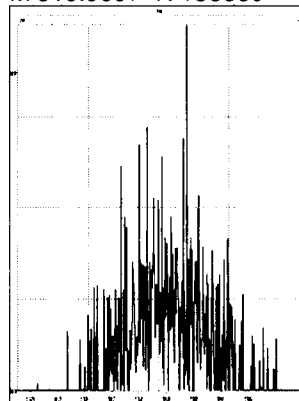
M 492.9696 R 16236



M 504.9696 R 24481



M 516.9697 R 138889



## **INITIAL CALIBRATION**

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-CRV.qld

Last Altered: Friday, April 09, 2021 07:54:40 Pacific Daylight Time

Printed: Friday, April 09, 2021 14:24:20 Pacific Daylight Time

*HZ 4.9.2021*  
*OC 04/12/21*

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07  
 Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

**Compound name: 2,3,7,8-TCDD**

Response Factor: 1.04781

RRF SD: 0.126208, Relative SD: 12.0449

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	210408D1_1	0.250	0.88	NO	27.06	1.001	4.27e2	1.42e5	0.287	14.8	1.20	MM
2	210408D1_2	0.500	0.78	NO	27.06	1.001	7.83e2	1.51e5	0.496	-0.8	1.04	MM
3	210408D1_3	2.00	0.72	NO	27.08	1.001	2.56e3	1.47e5	1.66	-17.0	0.869	MM
4	210408D1_4	10.0	0.77	NO	27.09	1.001	1.12e4	1.19e5	8.96	-10.4	0.939	bb
5	210408D1_5	40.0	0.80	NO	27.06	1.001	6.05e4	1.39e5	41.5	3.6	1.09	bb
6	210408D1_6	300	0.80	NO	27.08	1.001	4.13e5	1.20e5	329	9.8	1.15	bb

**Compound name: 1,2,3,7,8-PeCDD**

Response Factor: 0.881285

RRF SD: 0.100292, Relative SD: 11.3802

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	210408D1_1	1.25	0.65	NO	31.21	1.001	1.21e3	1.07e5	1.28	2.6	0.904	db
2	210408D1_2	2.50	0.62	NO	31.21	1.000	2.49e3	1.18e5	2.40	-4.2	0.845	MM
3	210408D1_3	10.0	0.59	NO	31.23	1.001	8.07e3	1.10e5	8.32	-16.8	0.733	db
4	210408D1_4	50.0	0.60	NO	31.25	1.000	3.65e4	8.84e4	46.9	-6.2	0.827	bb
5	210408D1_5	200	0.61	NO	31.21	1.001	2.18e5	1.11e5	223	11.4	0.982	bb
6	210408D1_6	1500	0.62	NO	31.23	1.001	1.47e6	9.84e4	1700	13.2	0.997	bb



Dataset: U:\VG7.PRO\Results\210408D1\210408D1-CRV.qld

Last Altered: Friday, April 09, 2021 07:54:40 Pacific Daylight Time

Printed: Friday, April 09, 2021 14:24:20 Pacific Daylight Time

**Compound name: 1,2,3,4,7,8-HxCDD**

Response Factor: 1.14289

RRF SD: 0.119907, Relative SD: 10.4916

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	210408D1_1	1.25	1.32	NO	34.69	1.001	1.14e3	8.27e4	1.21	-3.1	1.11	MM
2	210408D1_2	2.50	1.21	NO	34.67	1.000	2.53e3	8.83e4	2.51	0.4	1.15	MM
3	210408D1_3	10.0	1.33	NO	34.70	1.000	7.87e3	8.10e4	8.50	-15.0	0.972	dd
4	210408D1_4	50.0	1.30	NO	34.69	1.001	3.57e4	6.64e4	47.1	-5.9	1.08	dd
5	210408D1_5	200	1.29	NO	34.71	1.001	2.09e5	8.27e4	221	10.6	1.26	bd
6	210408D1_6	1500	1.26	NO	34.69	1.001	1.48e6	7.66e4	1700	13.1	1.29	bd

**Compound name: 1,2,3,6,7,8-HxCDD**

Response Factor: 1.01079

RRF SD: 0.115255, Relative SD: 11.4024

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	210408D1_1	1.25	1.37	NO	34.82	1.001	1.15e3	9.49e4	1.20	-3.9	0.972	MM
2	210408D1_2	2.50	1.24	NO	34.81	1.000	2.36e3	9.75e4	2.40	-4.0	0.970	db
3	210408D1_3	10.0	1.25	NO	34.84	1.000	7.83e3	8.95e4	8.65	-13.5	0.874	db
4	210408D1_4	50.0	1.22	NO	34.82	1.000	3.55e4	7.49e4	46.9	-6.2	0.949	db
5	210408D1_5	200	1.25	NO	34.84	1.000	2.04e5	9.10e4	222	10.9	1.12	db
6	210408D1_6	1500	1.27	NO	34.81	1.000	1.46e6	8.27e4	1750	16.7	1.18	db

**Compound name: 1,2,3,7,8,9-HxCDD**

Response Factor: 1.01937

RRF SD: 0.118453, Relative SD: 11.6201

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	210408D1_1	1.25	1.36	NO	35.13	1.001	1.12e3	9.05e4	1.21	-2.9	0.990	MM
2	210408D1_2	2.50	1.29	NO	35.13	1.000	2.27e3	9.79e4	2.27	-9.1	0.927	MM

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-CRV.qld

Last Altered: Friday, April 09, 2021 07:54:40 Pacific Daylight Time  
 Printed: Friday, April 09, 2021 14:24:20 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	210408D1_3	10.0	1.23	NO	35.15	1.000	8.22e3	9.20e4	8.77	-12.3	0.894	bb
4	210408D1_4	50.0	1.28	NO	35.13	1.000	3.56e4	7.31e4	47.8	-4.4	0.975	bb
5	210408D1_5	200	1.27	NO	35.15	1.000	2.08e5	9.05e4	226	12.8	1.15	bb
6	210408D1_6	1500	1.26	NO	35.13	1.001	1.50e6	8.47e4	1740	15.8	1.18	bb

**Compound name: 1,2,3,4,6,7,8-HpCDD**

Response Factor: 1.06502

RRF SD: 0.107328, Relative SD: 10.0775

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	210408D1_1	1.25	1.02	NO	38.63	1.000	9.55e2	7.20e4	1.24	-0.4	1.06	MM
2	210408D1_2	2.50	1.09	NO	38.49	1.001	2.15e3	8.55e4	2.36	-5.7	1.00	bb
3	210408D1_3	10.0	1.00	NO	38.59	1.001	6.73e3	7.26e4	8.71	-12.9	0.928	MM
4	210408D1_4	50.0	1.03	NO	38.58	1.001	2.97e4	5.83e4	47.8	-4.4	1.02	bb
5	210408D1_5	200	1.05	NO	38.51	1.000	1.73e5	7.44e4	218	9.2	1.16	bb
6	210408D1_6	1500	1.05	NO	38.54	1.000	1.27e6	6.95e4	1710	14.3	1.22	bb

**Compound name: OCDD**

Response Factor: 1.00216

RRF SD: 0.101836, Relative SD: 10.1617

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	210408D1_1	2.50	0.87	NO	42.24	1.001	1.50e3	1.20e5	2.48	-0.7	0.995	MM
2	210408D1_2	5.00	0.95	NO	42.14	1.001	2.94e3	1.26e5	4.65	-7.0	0.932	MM
3	210408D1_3	20.0	0.92	NO	42.34	1.000	9.83e3	1.11e5	17.7	-11.7	0.885	bd
4	210408D1_4	100	0.92	NO	42.39	1.000	4.22e4	8.73e4	96.4	-3.6	0.966	bb
5	210408D1_5	400	0.87	NO	42.16	1.000	2.46e5	1.16e5	425	6.2	1.06	bb
6	210408D1_6	3000	0.89	NO	42.18	1.000	1.91e6	1.09e5	3500	16.7	1.17	bb

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-CRV.qld

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**Compound name: 2,3,7,8-TCDF**

Response Factor: 0.863699

RRF SD: 0.0964992, Relative SD: 11.1728

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	210408D1_1	0.250	0.80	NO	26.49	1.001	4.18e2	2.20e5	0.220	-12.2	0.758	MM
2	210408D1_2	0.500	0.72	NO	26.48	1.001	9.99e2	2.32e5	0.499	-0.2	0.862	MM
3	210408D1_3	2.00	0.76	NO	26.51	1.001	3.46e3	2.24e5	1.79	-10.7	0.771	bb
4	210408D1_4	10.0	0.78	NO	26.51	1.001	1.51e4	1.78e5	9.85	-1.5	0.850	db
5	210408D1_5	40.0	0.76	NO	26.49	1.001	8.09e4	2.19e5	42.8	7.0	0.924	bb
6	210408D1_6	300	0.76	NO	26.49	1.001	5.44e5	1.79e5	353	17.6	1.02	bb

**Compound name: 1,2,3,7,8-PeCDF**

Response Factor: 0.948429

RRF SD: 0.115422, Relative SD: 12.1698

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	210408D1_1	1.25	1.59	NO	30.08	1.001	1.75e3	1.62e5	1.14	-9.1	0.862	MM
2	210408D1_2	2.50	1.59	NO	30.08	1.000	4.02e3	1.74e5	2.44	-2.6	0.924	bb
3	210408D1_3	10.0	1.65	NO	30.10	1.001	1.30e4	1.61e5	8.50	-15.0	0.806	bb
4	210408D1_4	50.0	1.67	NO	30.10	1.001	5.90e4	1.27e5	48.8	-2.3	0.926	bb
5	210408D1_5	200	1.58	NO	30.08	1.001	3.41e5	1.59e5	227	13.3	1.07	bb
6	210408D1_6	1500	1.58	NO	30.10	1.001	2.30e6	1.40e5	1730	15.6	1.10	bb

**Compound name: 2,3,4,7,8-PeCDF**

Response Factor: 1.03773

RRF SD: 0.148071, Relative SD: 14.2688

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	210408D1_1	1.25	1.44	NO	31.03	1.000	2.06e3	1.62e5	1.23	-1.9	1.02	MM
2	210408D1_2	2.50	1.53	NO	31.05	1.001	3.83e3	1.69e5	2.18	-12.9	0.904	bb

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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	210408D1_3	10.0	1.51	NO	31.05	1.001	1.40e4	1.60e5	8.42	-15.8	0.874	bb
4	210408D1_4	50.0	1.65	NO	31.09	1.001	6.35e4	1.27e5	48.2	-3.6	1.00	bb
5	210408D1_5	200	1.62	NO	31.03	1.000	3.65e5	1.50e5	234	17.1	1.22	bb
6	210408D1_6	1500	1.60	NO	31.05	1.001	2.53e6	1.39e5	1760	17.1	1.22	bb

**Compound name: 1,2,3,4,7,8-HxCDF**

Response Factor: 1.043

RRF SD: 0.0977631, Relative SD: 9.37325

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	210408D1_1	1.25	1.27	NO	33.70	1.001	1.56e3	1.26e5	1.19	-5.0	0.990	bd
2	210408D1_2	2.50	1.28	NO	33.69	1.000	3.48e3	1.38e5	2.41	-3.6	1.01	MM
3	210408D1_3	10.0	1.25	NO	33.69	1.000	1.19e4	1.29e5	8.85	-11.5	0.923	bd
4	210408D1_4	50.0	1.25	NO	33.69	1.000	5.27e4	1.04e5	48.7	-2.7	1.02	bd
5	210408D1_5	200	1.24	NO	33.69	1.001	2.93e5	1.27e5	221	10.5	1.15	bd
6	210408D1_6	1500	1.22	NO	33.70	1.000	2.01e6	1.15e5	1690	12.3	1.17	dd

**Compound name: 1,2,3,6,7,8-HxCDF**

Response Factor: 1.07422

RRF SD: 0.100505, Relative SD: 9.35605

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	210408D1_1	1.25	1.22	NO	33.83	1.000	1.70e3	1.35e5	1.18	-6.0	1.01	db
2	210408D1_2	2.50	1.26	NO	33.83	1.001	3.62e3	1.43e5	2.36	-5.4	1.02	MM
3	210408D1_3	10.0	1.23	NO	33.84	1.000	1.26e4	1.30e5	9.05	-9.5	0.973	db
4	210408D1_4	50.0	1.22	NO	33.84	1.001	5.56e4	1.06e5	48.7	-2.5	1.05	db
5	210408D1_5	200	1.25	NO	33.83	1.000	3.14e5	1.32e5	221	10.4	1.19	db
6	210408D1_6	1500	1.23	NO	33.85	1.001	2.13e6	1.17e5	1700	13.0	1.21	db

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**Compound name: 2,3,4,6,7,8-HxCDF**

Response Factor: 1.11712

RRF SD: 0.120058, Relative SD: 10.7471

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	:210408D1_1	1.25	1.31	NO	34.57	1.001	1.59e3	1.25e5	1.13	-9.3	1.01	MM
2	:210408D1_2	2.50	1.21	NO	34.56	1.001	3.57e3	1.29e5	2.48	-0.9	1.11	MM
3	:210408D1_3	10.0	1.23	NO	34.59	1.001	1.18e4	1.21e5	8.72	-12.8	0.975	bb
4	:210408D1_4	50.0	1.24	NO	34.56	1.001	5.30e4	9.69e4	48.9	-2.1	1.09	bb
5	:210408D1_5	200	1.22	NO	34.58	1.000	2.94e5	1.19e5	221	10.7	1.24	bb
6	:210408D1_6	1500	1.22	NO	34.58	1.001	2.03e6	1.06e5	1720	14.4	1.28	bb

**Compound name: 1,2,3,7,8,9-HxCDF**

Response Factor: 1.09872

RRF SD: 0.096484, Relative SD: 8.78148

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	:210408D1_1	1.25	1.19	NO	35.71	1.001	1.52e3	1.09e5	1.27	1.8	1.12	MM
2	:210408D1_2	2.50	1.26	NO	35.69	1.001	3.15e3	1.21e5	2.38	-5.0	1.04	MM
3	:210408D1_3	10.0	1.26	NO	35.73	1.000	1.05e4	1.09e5	8.76	-12.4	0.962	bb
4	:210408D1_4	50.0	1.22	NO	35.69	1.001	4.59e4	8.67e4	48.2	-3.7	1.06	bb
5	:210408D1_5	200	1.25	NO	35.72	1.000	2.60e5	1.09e5	216	8.2	1.19	bb
6	:210408D1_6	1500	1.23	NO	35.69	1.001	1.79e6	9.77e4	1670	11.0	1.22	bb

**Compound name: 1,2,3,4,6,7,8-HpCDF**

Response Factor: 1.15992

RRF SD: 0.132948, Relative SD: 11.4619

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	:210408D1_1	1.25	1.06	NO	37.28	1.000	1.31e3	9.30e4	1.21	-3.2	1.12	MM
2	:210408D1_2	2.50	1.06	NO	37.25	1.000	2.80e3	1.04e5	2.32	-7.1	1.08	MM

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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	210408D1_3	10.0	1.07	NO	37.31	1.000	9.36e3	9.20e4	8.77	-12.3	1.02	bb
4	210408D1_4	50.0	1.03	NO	37.29	1.001	4.11e4	7.46e4	47.4	-5.2	1.10	bb
5	210408D1_5	200	1.02	NO	37.28	1.000	2.36e5	9.26e4	220	9.8	1.27	bb
6	210408D1_6	1500	1.02	NO	37.30	1.001	1.70e6	8.30e4	1770	18.0	1.37	bb

**Compound name: 1,2,3,4,7,8,9-HpCDF**

Response Factor: 1.18693

RRF SD: 0.12561, Relative SD: 10.5828

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	210408D1_1	1.25	1.13	NO	39.43	1.001	1.12e3	7.54e4	1.25	0.2	1.19	MM
2	210408D1_2	2.50	1.05	NO	39.25	1.001	2.43e3	8.59e4	2.39	-4.5	1.13	MM
3	210408D1_3	10.0	0.99	NO	39.35	1.001	8.02e3	7.71e4	8.76	-12.4	1.04	bb
4	210408D1_4	50.0	1.04	NO	39.37	1.001	3.42e4	6.24e4	46.2	-7.7	1.10	bb
5	210408D1_5	200	1.00	NO	39.25	1.000	2.04e5	7.92e4	217	8.3	1.28	bb
6	210408D1_6	1500	1.02	NO	39.27	1.000	1.46e6	7.07e4	1740	16.1	1.38	bb

**Compound name: OCDF**

Response Factor: 0.908617

RRF SD: 0.0987277, Relative SD: 10.8657

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	210408D1_1	2.50	0.90	NO	42.59	1.001	1.82e3	1.72e5	2.32	-7.1	0.844	MM
2	210408D1_2	5.00	0.89	NO	42.48	1.000	3.97e3	1.71e5	5.10	1.9	0.926	MM
3	210408D1_3	20.0	0.88	NO	42.67	1.000	1.26e4	1.57e5	17.6	-12.0	0.800	bb
4	210408D1_4	100	0.90	NO	42.72	1.000	5.31e4	1.26e5	92.5	-7.5	0.840	bb
5	210408D1_5	400	0.89	NO	42.51	1.000	3.14e5	1.59e5	434	8.5	0.986	bd
6	210408D1_6	3000	0.88	NO	42.57	1.000	2.34e6	1.48e5	3490	16.2	1.06	bb

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**Compound name: 13C-2,3,7,8-TCDD**

Response Factor: 1.14528  
 RRF SD: 0.0371114, Relative SD: 3.24037  
 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	210408D1_1	100	0.79	NO	27.04	1.024	1.42e5	1.20e5	103	3.2	1.18	bb
2	210408D1_2	100	0.83	NO	27.04	1.024	1.51e5	1.36e5	96.7	-3.3	1.11	bb
3	210408D1_3	100	0.75	NO	27.06	1.024	1.47e5	1.29e5	99.8	-0.2	1.14	bb
4	210408D1_4	100	0.76	NO	27.08	1.025	1.19e5	1.04e5	100	-0.0	1.15	bb
5	210408D1_5	100	0.74	NO	27.04	1.024	1.39e5	1.26e5	96.2	-3.8	1.10	bb
6	210408D1_6	100	0.79	NO	27.06	1.025	1.20e5	1.00e5	104	4.1	1.19	bb

**Compound name: 13C-1,2,3,7,8-PeCDD**

Response Factor: 0.886818  
 RRF SD: 0.0484476, Relative SD: 5.46308  
 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	210408D1_1	100	0.62	NO	31.19	1.181	1.07e5	1.20e5	101	0.5	0.891	bb
2	210408D1_2	100	0.62	NO	31.21	1.182	1.18e5	1.36e5	97.8	-2.2	0.867	bb
3	210408D1_3	100	0.61	NO	31.21	1.181	1.10e5	1.29e5	96.2	-3.8	0.853	bb
4	210408D1_4	100	0.61	NO	31.25	1.183	8.84e4	1.04e5	96.0	-4.0	0.852	bb
5	210408D1_5	100	0.60	NO	31.19	1.181	1.11e5	1.26e5	98.8	-1.2	0.877	bb
6	210408D1_6	100	0.61	NO	31.21	1.182	9.84e4	1.00e5	111	10.6	0.981	bb

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

Response Factor: 0.645267  
 RRF SD: 0.0375751, Relative SD: 5.82319  
 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	210408D1_1	100	1.29	NO	34.66	1.015	8.27e4	1.27e5	101	0.7	0.650	bd
2	210408D1_2	100	1.29	NO	34.66	1.015	8.83e4	1.41e5	97.2	-2.8	0.628	bd

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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	210408D1_3	100	1.28	NO	34.70	1.015	8.10e4	1.32e5	95.3	-4.7	0.615	bd
4	210408D1_4	100	1.28	NO	34.66	1.015	6.64e4	1.06e5	97.2	-2.8	0.627	bd
5	210408D1_5	100	1.26	NO	34.69	1.015	8.27e4	1.31e5	98.1	-1.9	0.633	bd
6	210408D1_6	100	1.30	NO	34.66	1.015	7.66e4	1.07e5	111	11.3	0.718	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDD**

Response Factor: 0.716532

RRF SD: 0.0366683, Relative SD: 5.11746

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	210408D1_1	100	1.33	NO	34.80	1.019	9.49e4	1.27e5	104	4.1	0.746	dd
2	210408D1_2	100	1.27	NO	34.80	1.019	9.75e4	1.41e5	96.7	-3.3	0.693	db
3	210408D1_3	100	1.25	NO	34.83	1.019	8.95e4	1.32e5	94.9	-5.1	0.680	db
4	210408D1_4	100	1.27	NO	34.81	1.019	7.49e4	1.06e5	98.8	-1.2	0.708	db
5	210408D1_5	100	1.32	NO	34.83	1.019	9.10e4	1.31e5	97.3	-2.7	0.697	db
6	210408D1_6	100	1.26	NO	34.80	1.018	8.27e4	1.07e5	108	8.2	0.776	db

**Compound name: 13C-1,2,3,7,8,9-HxCDD**

Response Factor: 0.713984

RRF SD: 0.0403019, Relative SD: 5.64465

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	210408D1_1	100	1.33	NO	35.09	1.027	9.05e4	1.27e5	99.6	-0.4	0.711	dd
2	210408D1_2	100	1.23	NO	35.11	1.029	9.79e4	1.41e5	97.4	-2.6	0.695	bb
3	210408D1_3	100	1.33	NO	35.14	1.028	9.20e4	1.32e5	97.8	-2.2	0.698	bb
4	210408D1_4	100	1.27	NO	35.11	1.028	7.31e4	1.06e5	96.8	-3.2	0.691	bb
5	210408D1_5	100	1.31	NO	35.14	1.028	9.05e4	1.31e5	97.1	-2.9	0.693	bb
6	210408D1_6	100	1.25	NO	35.10	1.027	8.47e4	1.07e5	111	11.3	0.795	bb



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

Response Factor: 0.583223

RRF SD: 0.0396778, Relative SD: 6.8032

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	210408D1_1	100	1.07	NO	38.62	1.131	7.20e4	1.27e5	97.1	-2.9	0.566	bd
2	210408D1_2	100	1.05	NO	38.47	1.127	8.55e4	1.41e5	104	4.1	0.607	bd
3	210408D1_3	100	1.04	NO	38.57	1.129	7.26e4	1.32e5	94.5	-5.5	0.551	bb
4	210408D1_4	100	1.04	NO	38.56	1.128	5.83e4	1.06e5	94.6	-5.4	0.552	bb
5	210408D1_5	100	1.04	NO	38.50	1.127	7.44e4	1.31e5	97.8	-2.2	0.570	bb
6	210408D1_6	100	1.08	NO	38.53	1.128	6.95e4	1.07e5	112	11.9	0.653	bd

**Compound name: 13C-OCDD**

Response Factor: 0.451337

RRF SD: 0.0358226, Relative SD: 7.937

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	210408D1_1	200	0.89	NO	42.20	1.235	1.20e5	1.27e5	209	4.6	0.472	bb
2	210408D1_2	200	0.88	NO	42.10	1.233	1.26e5	1.41e5	198	-0.8	0.448	bb
3	210408D1_3	200	0.88	NO	42.34	1.239	1.11e5	1.32e5	187	-6.6	0.422	bb
4	210408D1_4	200	0.90	NO	42.39	1.241	8.73e4	1.06e5	183	-8.5	0.413	bb
5	210408D1_5	200	0.88	NO	42.14	1.233	1.16e5	1.31e5	196	-1.9	0.443	bb
6	210408D1_6	200	0.93	NO	42.16	1.234	1.09e5	1.07e5	226	13.2	0.511	MM

**Compound name: 13C-2,3,7,8-TCDF**

Response Factor: 1.09059

RRF SD: 0.0307934, Relative SD: 2.82355

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	210408D1_1	100	0.77	NO	26.46	1.002	2.20e5	1.98e5	102	1.9	1.11	bb
2	210408D1_2	100	0.75	NO	26.46	1.002	2.32e5	2.20e5	96.5	-3.5	1.05	bb

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-CRV.qld

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**Compound name: 13C-2,3,7,8-TCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	210408D1_3	100	0.76	NO	26.49	1.003	2.24e5	2.03e5	101	1.3	1.11	bb
4	210408D1_4	100	0.78	NO	26.49	1.003	1.78e5	1.68e5	97.2	-2.8	1.06	bb
5	210408D1_5	100	0.77	NO	26.46	1.002	2.19e5	2.02e5	99.3	-0.7	1.08	bb
6	210408D1_6	100	0.74	NO	26.48	1.003	1.79e5	1.58e5	104	3.8	1.13	bb

**Compound name: 13C-1,2,3,7,8-PeCDF**

Response Factor: 0.804615

RRF SD: 0.0435909, Relative SD: 5.41761

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	210408D1_1	100	1.65	NO	30.06	1.139	1.62e5	1.98e5	102	1.6	0.817	bb
2	210408D1_2	100	1.60	NO	30.08	1.139	1.74e5	2.20e5	98.3	-1.7	0.791	dd
3	210408D1_3	100	1.59	NO	30.08	1.139	1.61e5	2.03e5	98.3	-1.7	0.791	bb
4	210408D1_4	100	1.58	NO	30.08	1.139	1.27e5	1.68e5	94.2	-5.8	0.758	bb
5	210408D1_5	100	1.60	NO	30.06	1.139	1.59e5	2.02e5	97.6	-2.4	0.785	bb
6	210408D1_6	100	1.59	NO	30.08	1.139	1.40e5	1.58e5	110	10.0	0.885	bb

**Compound name: 13C-2,3,4,7,8-PeCDF**

Response Factor: 0.791751

RRF SD: 0.0495011, Relative SD: 6.25211

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	210408D1_1	100	1.61	NO	31.03	1.175	1.62e5	1.98e5	103	3.2	0.817	bb
2	210408D1_2	100	1.63	NO	31.03	1.175	1.69e5	2.20e5	97.2	-2.8	0.770	bb
3	210408D1_3	100	1.61	NO	31.03	1.175	1.60e5	2.03e5	99.3	-0.7	0.786	bb
4	210408D1_4	100	1.56	NO	31.07	1.176	1.27e5	1.68e5	95.4	-4.6	0.756	bb
5	210408D1_5	100	1.58	NO	31.03	1.175	1.50e5	2.02e5	93.9	-6.1	0.744	bb
6	210408D1_6	100	1.59	NO	31.03	1.175	1.39e5	1.58e5	111	10.9	0.878	bb

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-CRV.qld

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

Response Factor: 0.997312

RRF SD: 0.0381871, Relative SD: 3.829

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	210408D1_1	100	0.49	NO	33.68	0.986	1.26e5	1.27e5	99.2	-0.8	0.990	bd
2	210408D1_2	100	0.50	NO	33.68	0.987	1.38e5	1.41e5	98.6	-1.4	0.983	bd
3	210408D1_3	100	0.50	NO	33.68	0.985	1.29e5	1.32e5	98.2	-1.8	0.979	bd
4	210408D1_4	100	0.50	NO	33.68	0.985	1.04e5	1.06e5	98.4	-1.6	0.981	bd
5	210408D1_5	100	0.49	NO	33.67	0.985	1.27e5	1.31e5	97.8	-2.2	0.976	bd
6	210408D1_6	100	0.50	NO	33.69	0.986	1.15e5	1.07e5	108	7.8	1.07	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDF**

Response Factor: 1.02847

RRF SD: 0.0400304, Relative SD: 3.89221

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	210408D1_1	100	0.50	NO	33.82	0.990	1.35e5	1.27e5	103	2.8	1.06	dd
2	210408D1_2	100	0.50	NO	33.81	0.990	1.43e5	1.41e5	98.5	-1.5	1.01	db
3	210408D1_3	100	0.51	NO	33.83	0.990	1.30e5	1.32e5	96.0	-4.0	0.987	db
4	210408D1_4	100	0.51	NO	33.82	0.990	1.06e5	1.06e5	97.7	-2.3	1.01	db
5	210408D1_5	100	0.52	NO	33.82	0.990	1.32e5	1.31e5	98.5	-1.5	1.01	db
6	210408D1_6	100	0.50	NO	33.83	0.990	1.17e5	1.07e5	106	6.5	1.10	db

**Compound name: 13C-2,3,4,6,7,8-HxCDF**

Response Factor: 0.939728

RRF SD: 0.0378274, Relative SD: 4.02535

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	210408D1_1	100	0.49	NO	34.54	1.011	1.25e5	1.27e5	105	4.8	0.984	bb
2	210408D1_2	100	0.52	NO	34.54	1.012	1.29e5	1.41e5	97.4	-2.6	0.916	bb

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-CRV.qld

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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	210408D1_3	100	0.49	NO	34.56	1.012	1.21e5	1.32e5	97.8	-2.2	0.919	bb
4	210408D1_4	100	0.51	NO	34.54	1.011	9.69e4	1.06e5	97.5	-2.5	0.916	bb
5	210408D1_5	100	0.51	NO	34.56	1.012	1.19e5	1.31e5	97.0	-3.0	0.911	bb
6	210408D1_6	100	0.50	NO	34.55	1.011	1.06e5	1.07e5	106	5.6	0.992	bb

**Compound name: 13C-1,2,3,7,8,9-HxCDF**

Response Factor: 0.852317

RRF SD: 0.034932, Relative SD: 4.09847

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	210408D1_1	100	0.52	NO	35.69	1.045	1.09e5	1.27e5	100	0.4	0.856	bb
2	210408D1_2	100	0.50	NO	35.66	1.045	1.21e5	1.41e5	101	0.5	0.857	bd
3	210408D1_3	100	0.51	NO	35.72	1.045	1.09e5	1.32e5	97.2	-2.8	0.828	bb
4	210408D1_4	100	0.50	NO	35.67	1.044	8.67e4	1.06e5	96.2	-3.8	0.820	bb
5	210408D1_5	100	0.52	NO	35.71	1.045	1.09e5	1.31e5	98.2	-1.8	0.837	bb
6	210408D1_6	100	0.50	NO	35.66	1.044	9.77e4	1.07e5	108	7.6	0.917	bb

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

Response Factor: 0.726905

RRF SD: 0.0296006, Relative SD: 4.07214

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	210408D1_1	100	0.40	NO	37.27	1.091	9.30e4	1.27e5	101	0.6	0.731	bb
2	210408D1_2	100	0.40	NO	37.24	1.091	1.04e5	1.41e5	102	1.5	0.738	bb
3	210408D1_3	100	0.41	NO	37.30	1.092	9.20e4	1.32e5	96.1	-3.9	0.699	bb
4	210408D1_4	100	0.41	NO	37.27	1.091	7.46e4	1.06e5	97.1	-2.9	0.706	bb
5	210408D1_5	100	0.42	NO	37.27	1.091	9.26e4	1.31e5	97.6	-2.4	0.710	bb
6	210408D1_6	100	0.42	NO	37.28	1.091	8.30e4	1.07e5	107	7.1	0.779	bb

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-CRV.qld

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**Compound name: 13C-1,2,3,4,7,8,9-HpCDF**

Response Factor: 0.607947  
 RRF SD: 0.0286797, Relative SD: 4.71747  
 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	210408D1_1	100	0.43	NO	39.41	1.154	7.54e4	1.27e5	97.4	-2.6	0.592	bb
2	210408D1_2	100	0.42	NO	39.21	1.149	8.59e4	1.41e5	100	0.4	0.610	bd
3	210408D1_3	100	0.41	NO	39.32	1.151	7.71e4	1.32e5	96.3	-3.7	0.585	bd
4	210408D1_4	100	0.40	NO	39.35	1.151	6.24e4	1.06e5	97.0	-3.0	0.590	bb
5	210408D1_5	100	0.41	NO	39.24	1.148	7.92e4	1.31e5	99.8	-0.2	0.607	bb
6	210408D1_6	100	0.41	NO	39.26	1.149	7.07e4	1.07e5	109	9.0	0.663	bb

**Compound name: 13C-OCDF**

Response Factor: 0.630796  
 RRF SD: 0.0428508, Relative SD: 6.79313  
 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	210408D1_1	200	0.90	NO	42.56	1.246	1.72e5	1.27e5	215	7.3	0.677	bb
2	210408D1_2	200	0.90	NO	42.47	1.244	1.71e5	1.41e5	193	-3.6	0.608	bb
3	210408D1_3	200	0.87	NO	42.64	1.248	1.57e5	1.32e5	190	-5.2	0.598	bb
4	210408D1_4	200	0.89	NO	42.71	1.250	1.26e5	1.06e5	189	-5.3	0.597	bb
5	210408D1_5	200	0.88	NO	42.51	1.244	1.59e5	1.31e5	194	-3.2	0.611	bd
6	210408D1_6	200	0.89	NO	42.57	1.246	1.48e5	1.07e5	220	10.0	0.694	bb

**Compound name: 37Cl-2,3,7,8-TCDD**

Response Factor: 2.21891  
 RRF SD: 0.357843, Relative SD: 16.127  
 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	210408D1_1	0.250			27.06	1.025	8.33e2	1.20e5	0.312	24.9	2.77	bb
2	210408D1_2	0.500			27.06	1.025	1.50e3	1.36e5	0.496	-0.8	2.20	bb

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-CRV.qld

Last Altered: Friday, April 09, 2021 07:54:40 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
210408D1_3	2.00			27.08	1.025	4.47e3	1.29e5	1.56	-21.8	1.73	bb
210408D1_4	10.0			27.09	1.026	2.07e4	1.04e5	8.98	-10.2	1.99	bd
210408D1_5	40.0			27.06	1.025	1.10e5	1.26e5	39.3	-1.8	2.18	bb
210408D1_6	200			27.08	1.026	4.88e5	1.00e5	219	9.7	2.44	bb

**Compound name: 13C-1,2,3,4-TCDD**

Response Factor: 1

RRF SD: 0, Relative SD: 0

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
210408D1_1	100	0.79	NO	26.40	1.000	1.20e5	1.20e5	100	0.0	1.00	bb
210408D1_2	100	0.81	NO	26.40	1.000	1.36e5	1.36e5	100	0.0	1.00	bb
210408D1_3	100	0.79	NO	26.42	1.000	1.29e5	1.29e5	100	0.0	1.00	bb
210408D1_4	100	0.82	NO	26.42	1.000	1.04e5	1.04e5	100	0.0	1.00	bb
210408D1_5	100	0.75	NO	26.40	1.000	1.26e5	1.26e5	100	0.0	1.00	bb
210408D1_6	100	0.75	NO	26.40	1.000	1.00e5	1.00e5	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
210408D1_1	100	0.77	NO	25.18	1.000	1.98e5	1.98e5	100	0.0	1.00	bb
210408D1_2	100	0.77	NO	25.18	1.000	2.20e5	2.20e5	100	0.0	1.00	bb
210408D1_3	100	0.76	NO	25.19	1.000	2.03e5	2.03e5	100	0.0	1.00	bb
210408D1_4	100	0.78	NO	25.21	1.000	1.68e5	1.68e5	100	0.0	1.00	bb
210408D1_5	100	0.76	NO	25.18	1.000	2.02e5	2.02e5	100	0.0	1.00	bb
210408D1_6	100	0.75	NO	25.18	1.000	1.58e5	1.58e5	100	0.0	1.00	bb

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-CRV.qld

Last Altered: Friday, April 09, 2021 07:54:40 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	210408D1_1	100	0.50	NO	34.16	1.000	1.27e5	1.27e5	100	0.0	1.00	bb
2	210408D1_2	100	0.50	NO	34.14	1.000	1.41e5	1.41e5	100	0.0	1.00	bd
3	210408D1_3	100	0.52	NO	34.17	1.000	1.32e5	1.32e5	100	0.0	1.00	bb
4	210408D1_4	100	0.48	NO	34.17	1.000	1.06e5	1.06e5	100	0.0	1.00	bb
5	210408D1_5	100	0.50	NO	34.17	1.000	1.31e5	1.31e5	100	0.0	1.00	bb
6	210408D1_6	100	0.50	NO	34.17	1.000	1.07e5	1.07e5	100	0.0	1.00	bd

Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:13 Pacific Daylight Time

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Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Compound name: 2,3,7,8-TCDD

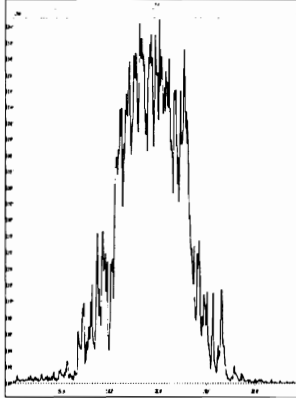
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3	210408D1_3	ST210408D1-3 1613 CS2 21C0104	08-Apr-21	10:06:35
4	210408D1_4	ST210408D1-4 1613 CS3 21C0105	08-Apr-21	10:53:15
5	210408D1_5	ST210408D1-5 1613 CS4 21C0106	08-Apr-21	11:39:55
6	210408D1_6	ST210408D1-6 1613 CS5 21C0107	08-Apr-21	12:26:34
7	210408D1_7	SS210408D1-1 1613 SSS 21C0108	08-Apr-21	13:21:14
8	210408D1_8	SOLVENT BLANK	08-Apr-21	14:06:53
9	210408D1_9	HRMS-210301-04 RS VIAL 4	08-Apr-21	14:53:31
10	210408D1_10	HRMS-210301-05 RS VIAL 3	08-Apr-21	15:40:10
11	210408D1_11	HRMS-210301-06 RS VIAL 2	08-Apr-21	16:26:50
12	210408D1_12	HRMS-210301-07 RS VIAL 1	08-Apr-21	17:13:28



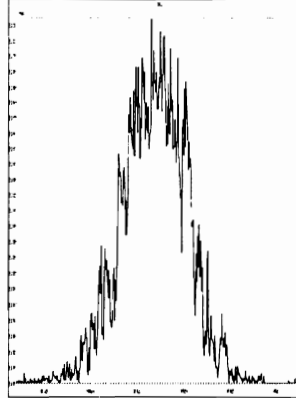
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Printed: Thursday, April 08, 2021 08:23:11 Pacific Daylight Time

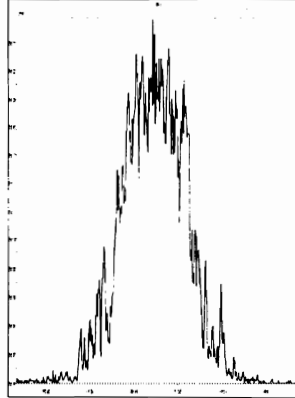
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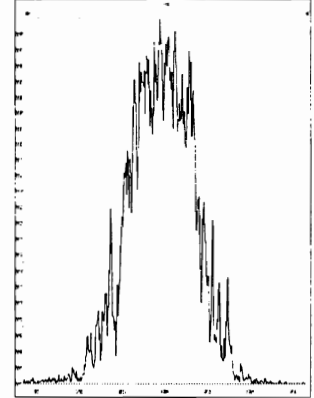
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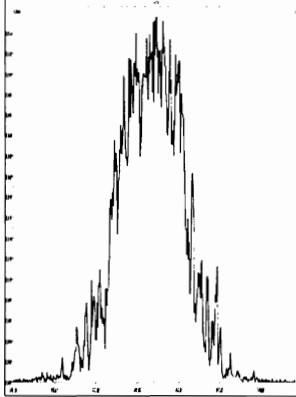
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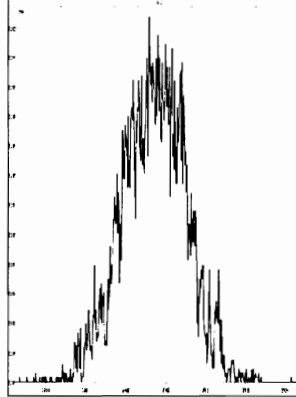
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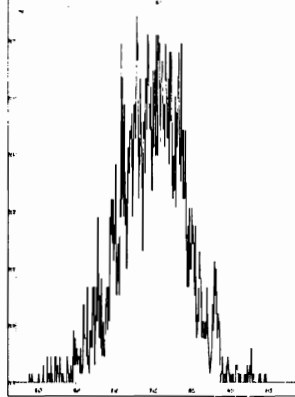
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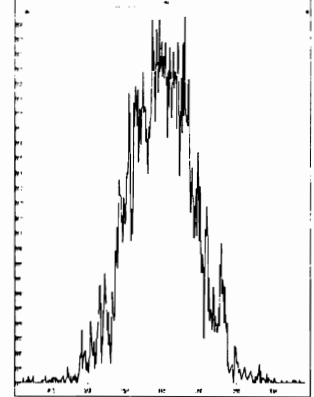
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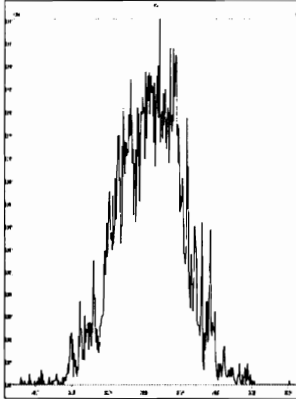
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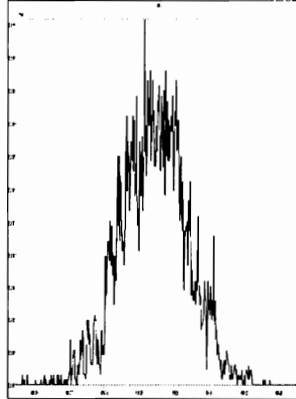
M 380.9760 R 10636



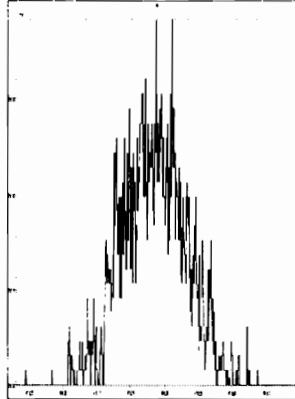
M 392.9760 R 10205



M 404.9760 R 11736



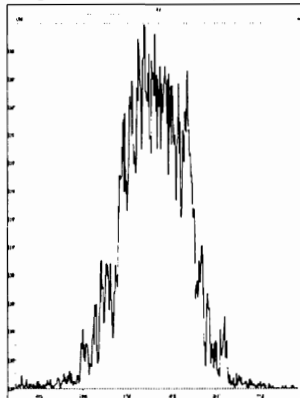
M 416.9760 R 12560



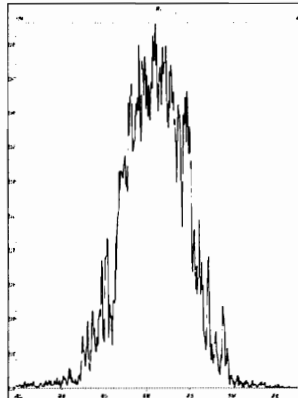
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, April 08, 2021 08:24:15 Pacific Daylight Time

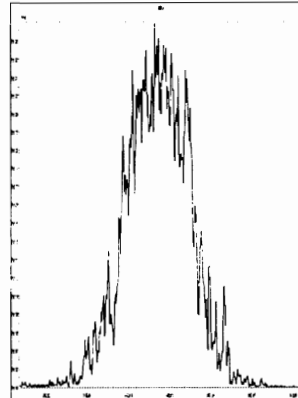
M 318.9792 R 11011



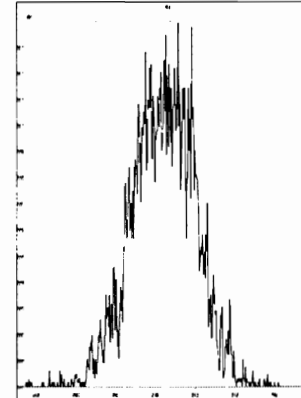
M 330.9792 R 11063



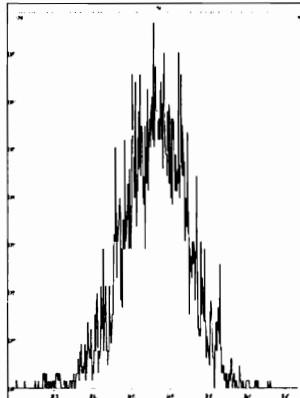
M 342.9792 R 11012



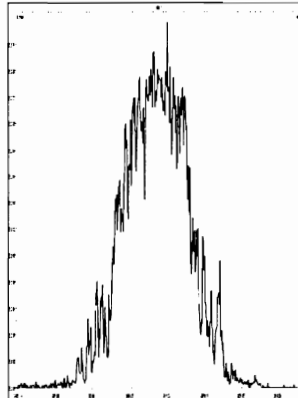
M 354.9792 R 11158



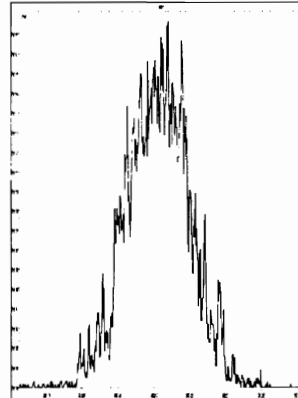
M 366.9792 R 11574



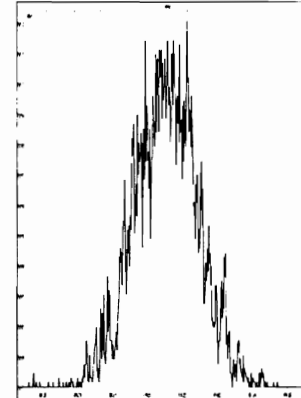
M 380.9760 R 10728



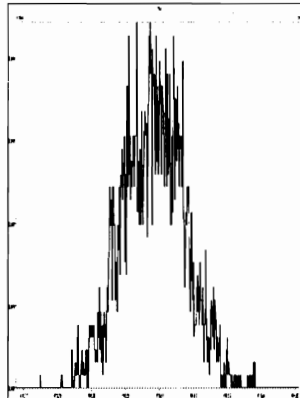
M 392.9760 R 10160



M 404.9760 R 10683



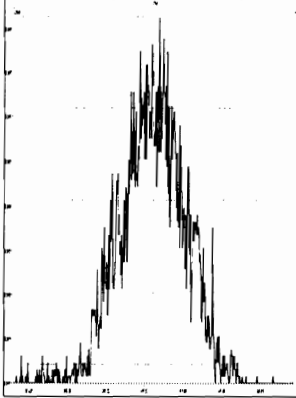
M 416.9760 R 10728



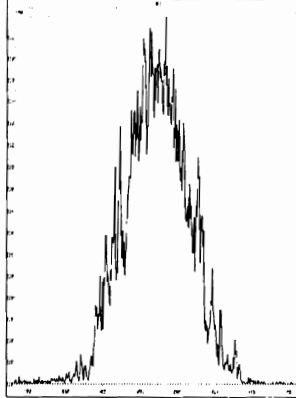
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, April 08, 2021 08:25:00 Pacific Daylight Time

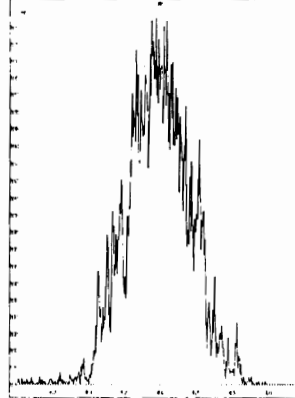
M 366.9792 R 11312



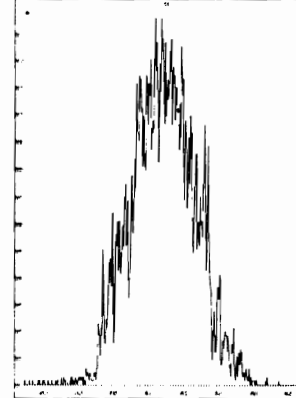
M 380.9760 R 10592



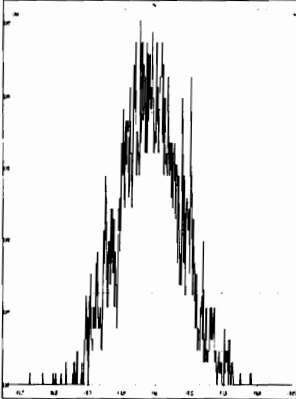
M 392.9760 R 10681



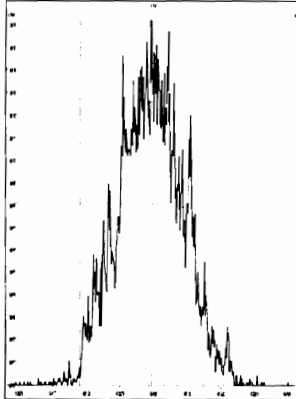
M 404.9760 R 10593



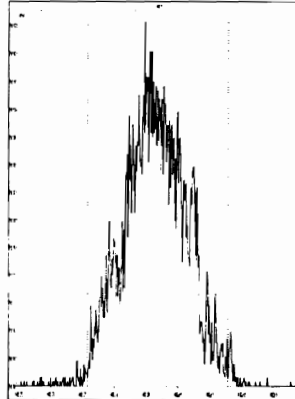
M 416.9760 R 10963



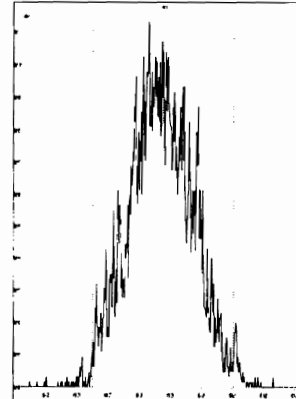
M 430.9728 R 10205



M 442.9728 R 10287



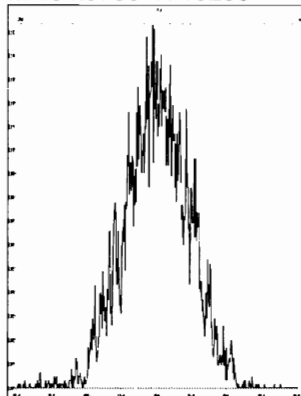
M 454.9728 R 10289



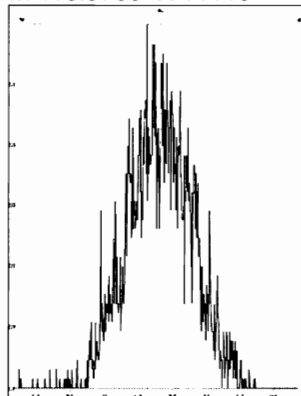
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, April 08, 2021 08:25:36 Pacific Daylight Time

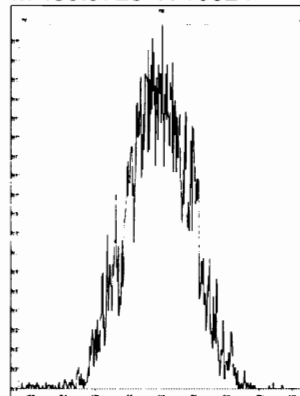
M 404.9760 R 10288



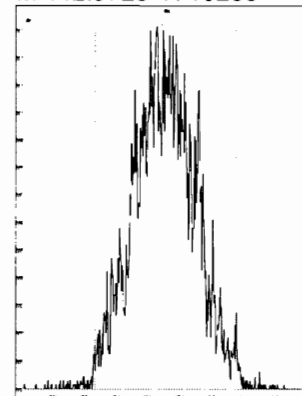
M 416.9760 R 11110



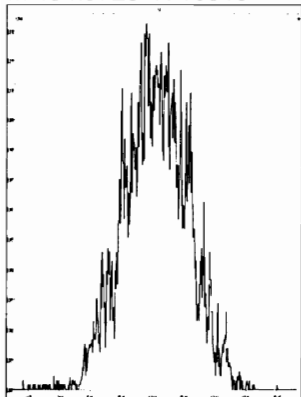
M 430.9728 R 10824



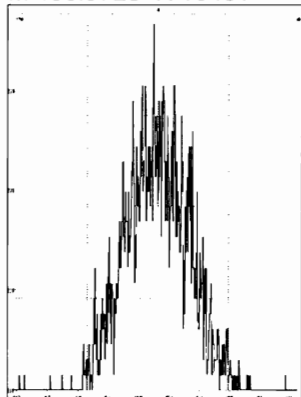
M 442.9728 R 10288



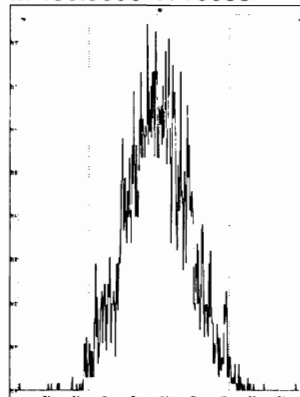
M 454.9728 R 10919



M 466.9728 R 10461



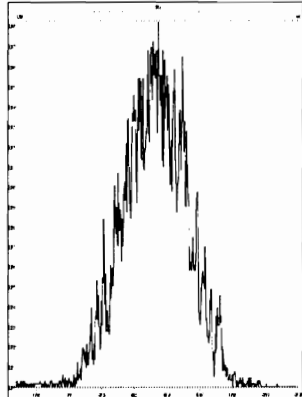
M 480.9696 R 10638



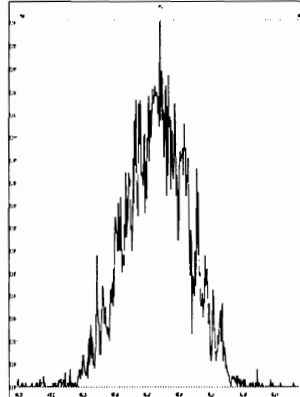
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, April 08, 2021 08:26:16 Pacific Daylight Time

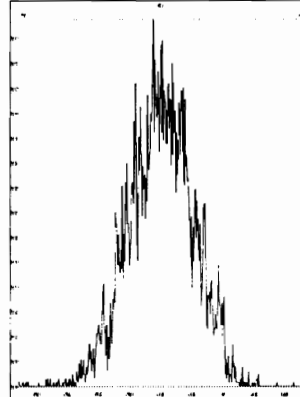
M 430.9728 R 10591



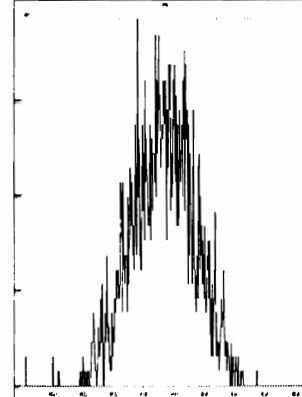
M 442.9728 R 10118



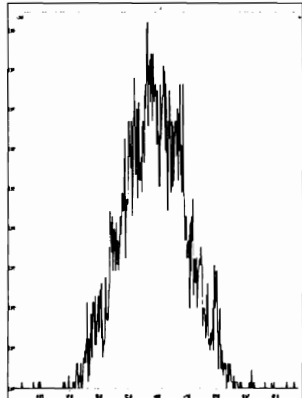
M 454.9728 R 10822



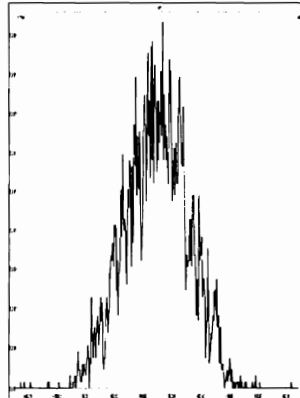
M 466.9728 R 11259



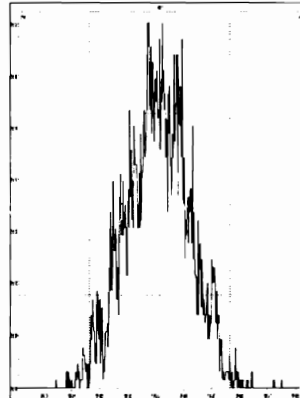
M 480.9696 R 10501



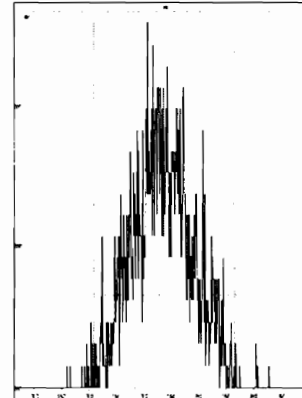
M 492.9696 R 10548



M 504.9696 R 11794



M 516.9697 R 11570



Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:07:09 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:07:50 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSM.mdb 06 Apr 2021 11:04:01

Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210408D1\_4, Date: 08-Apr-2021, Time: 10:53:15, ID: ST210408D1-4 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	RT
1	1,3,6,8-TCDD (First)	23.99
2	1,2,8,9-TCDD (Last)	27.85
3	1,2,4,7,9-PeCDD (First)	29.20
4	1,2,3,8,9-PeCDD (Last)	31.57
5	1,2,4,6,7,9-HxCDD (First)	32.91
6	1,2,3,7,8,9-HxCDD (Last)	35.13
7	1,2,3,4,6,7,9-HpCDD (First)	37.61
8	1,2,3,4,6,7,8-HpCDD (Last)	38.58
9	1,3,6,8-TCDF (First)	22.15
10	1,2,8,9-TCDF (Last)	28.13
11	1,3,4,6,8-PeCDF (First)	27.75
12	1,2,3,8,9-PeCDF (Last)	31.93
13	1,2,3,4,6,8-HxCDF (First)	32.35
14	1,2,3,7,8,9-HxCDF (Last)	35.70
15	1,2,3,4,6,7,8-HpCDF (First)	37.29
16	1,2,3,4,7,8,9-HpCDF (Last)	39.37

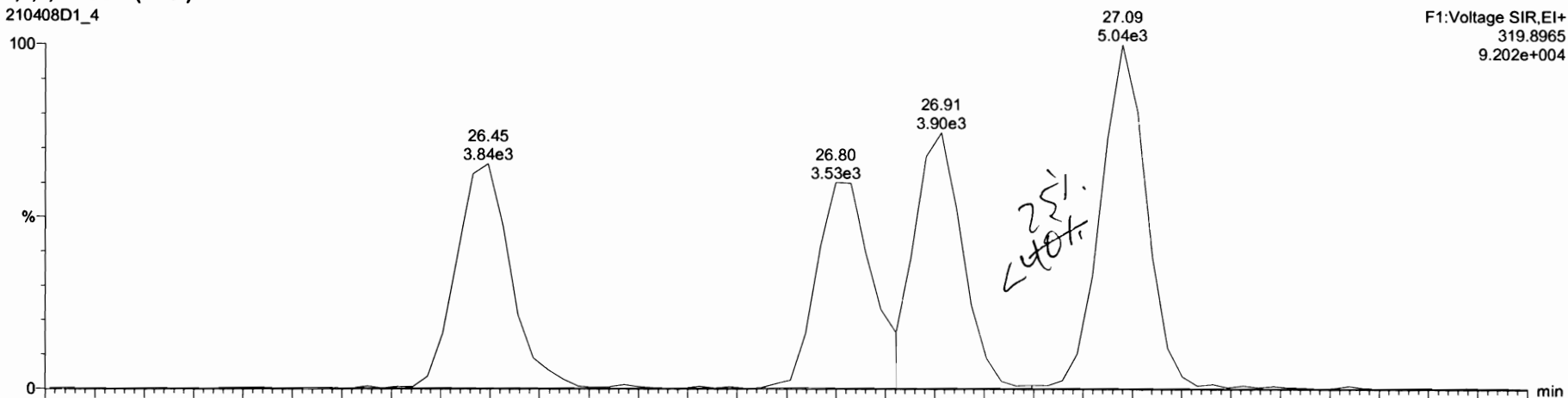
Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:07:09 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:07:50 Pacific Daylight Time

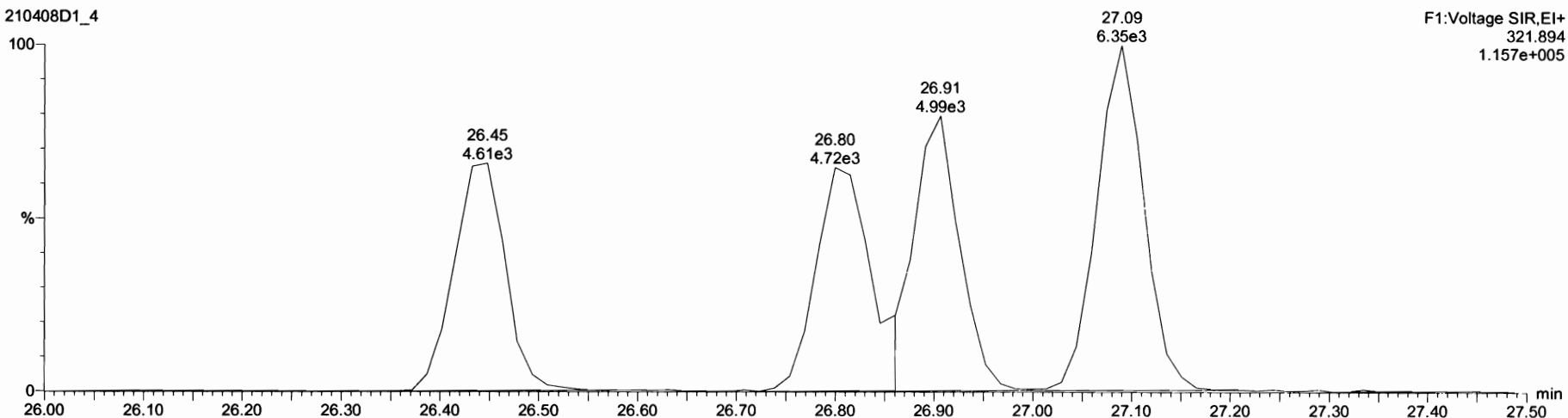
Method: C:\MassLynx\Default.pro\Methdb\CPSM.mdb 06 Apr 2021 11:04:01  
Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210408D1\_4, Date: 08-Apr-2021, Time: 10:53:15, ID: ST210408D1-4 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,3,6,8-TCDD (First)  
210408D1\_4



210408D1\_4



Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:07:09 Pacific Daylight Time

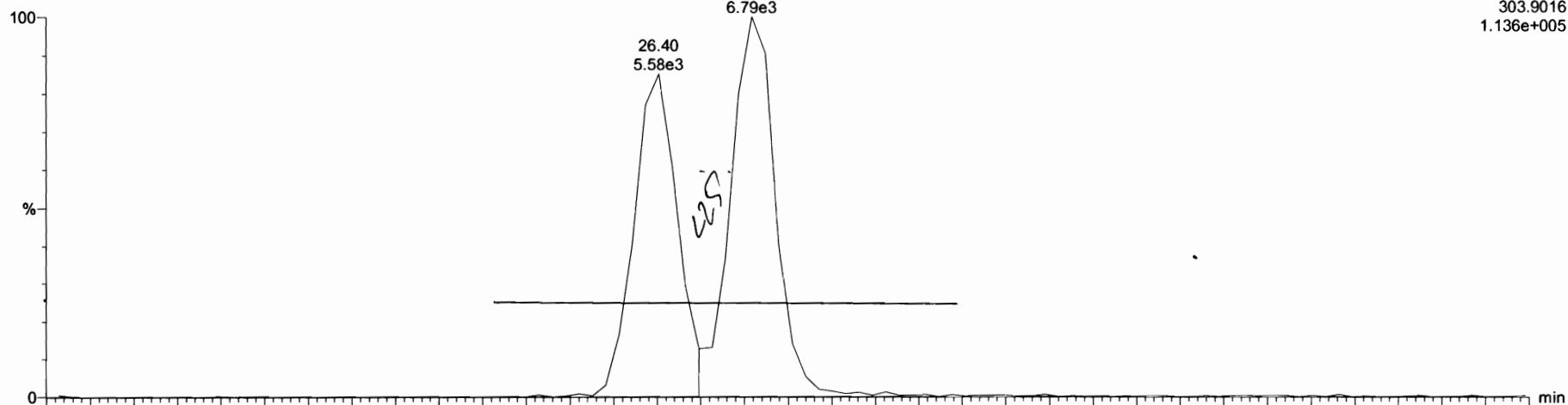
Printed: Friday, April 09, 2021 08:07:50 Pacific Daylight Time

Name: 210408D1\_4, Date: 08-Apr-2021, Time: 10:53:15, ID: ST210408D1-4 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

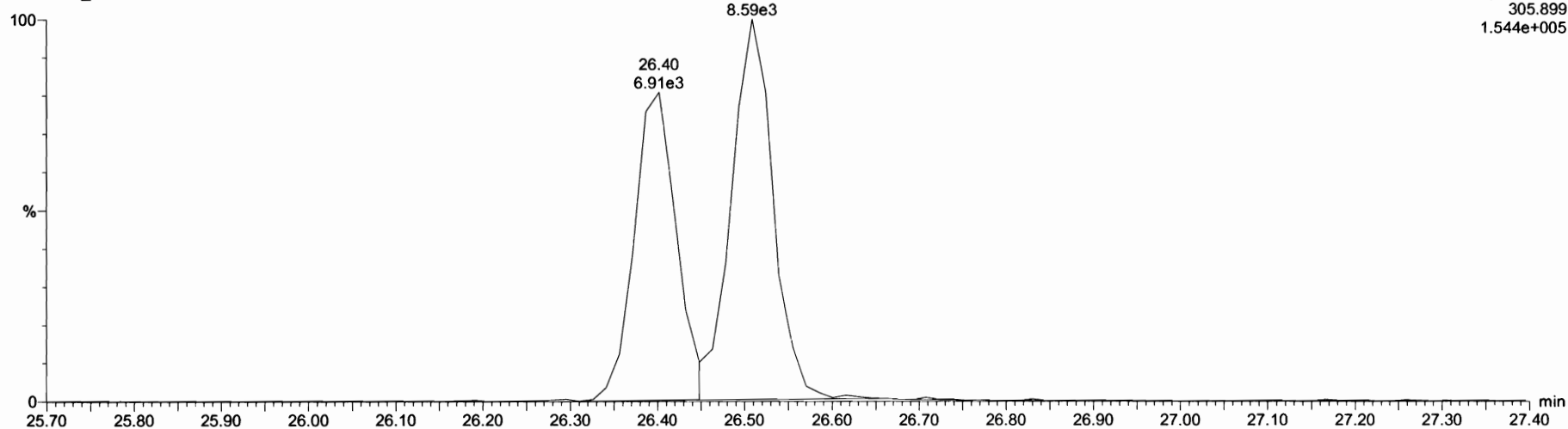
210408D1\_4

F1:Voltage SIR,EI+  
303.9016  
1.136e+005



210408D1\_4

F1:Voltage SIR,EI+  
305.899  
1.544e+005





Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

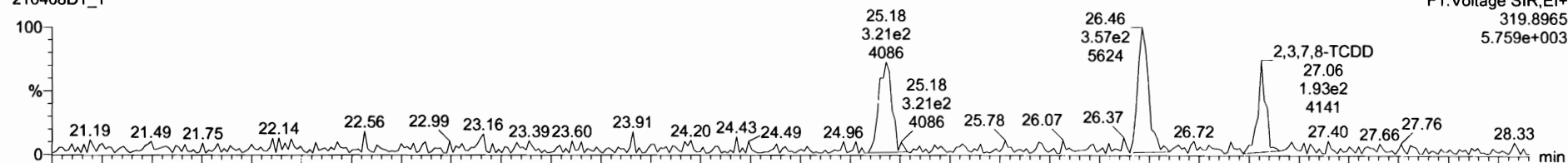
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Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

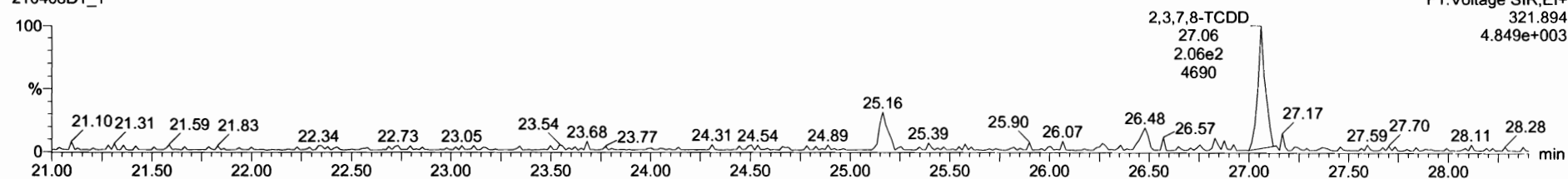
Name: 210408D1\_1, Date: 08-Apr-2021, Time: 08:27:40, ID: ST210408D1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706

### 2,3,7,8-TCDD

210408D1\_1

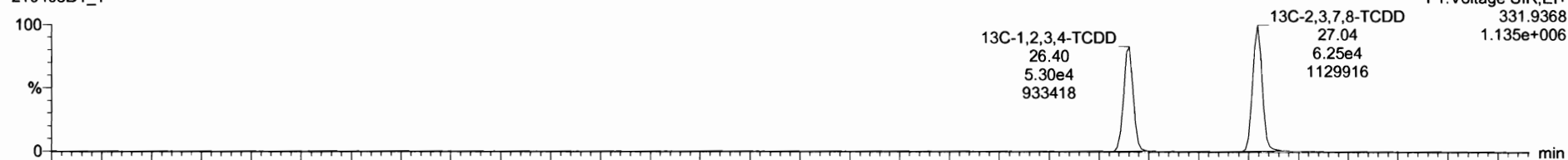


210408D1\_1

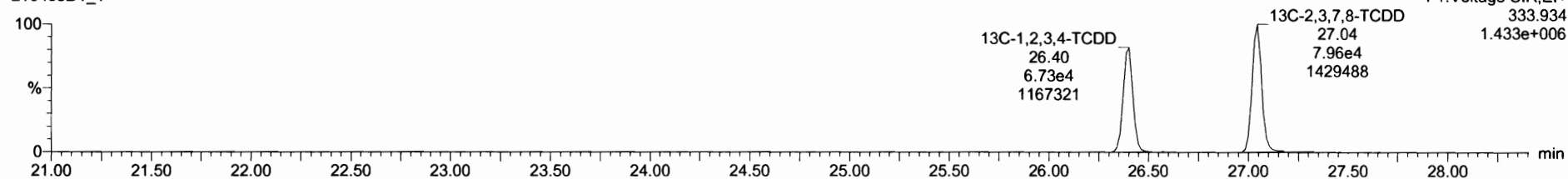


### 13C-2,3,7,8-TCDD

210408D1\_1



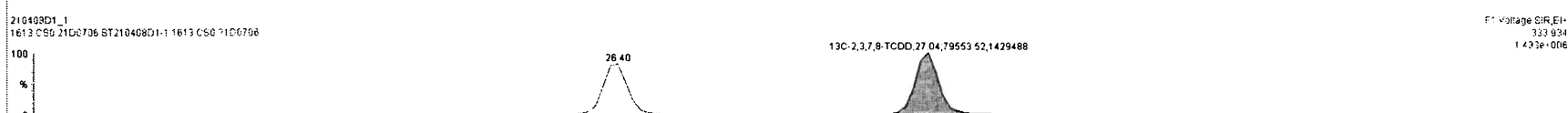
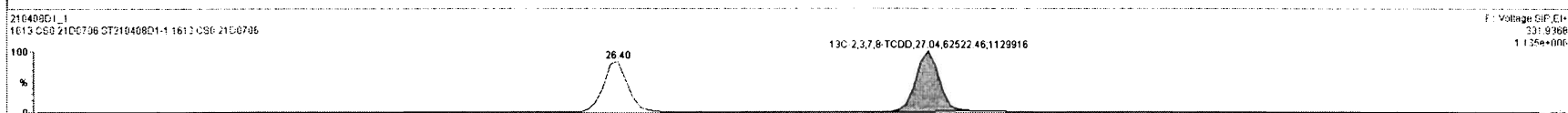
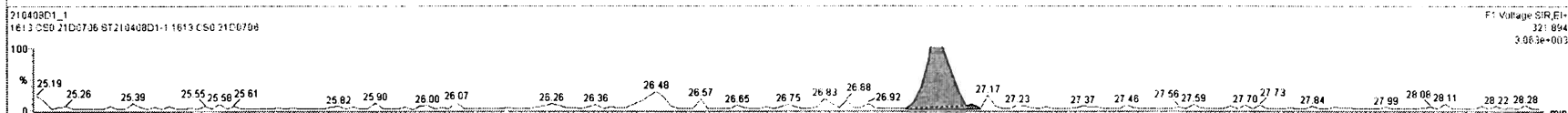
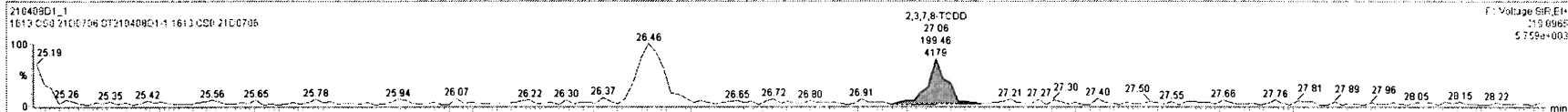
210408D1\_1



210408D1\_1 - ST210408D1-1 1613 C50 2100706 - 1613 C50 2100706

Name	Resp	IS Resp	RRF	wtVol	Pred RT	RT	RRT	Pred RRT	RRT Fail	Conc.	%Rec	DL	EMPC
32 13C-1,2,3,4,6,7,8-HpCDF	9.30e4	1.27e5	0.7289	1.000	37.21	37.27	1.0911	1.09	NO	101	101	0.922	
33 13C-1,2,3,4,7,8,9-HpCDF	7.54e4	1.27e5	0.6079	1.000	39.22	39.41	1.1537	1.15	NO	97.4	97.4	1.10	
34 13C-OCDF	1.72e5	1.27e5	0.6308	1.000	42.40	42.56	1.2458	1.24	NO	215	107	0.445	
35 3TC-2,3,7,8-TCDD	8.33e2	1.20e5	2.2189	1.000	27.05	27.06	1.0249	1.02	NO	0.312	1.25	0.0231	
36 13C-1,2,3,4-TCDD	1.20e5	1.20e5	1.0000	1.000	26.42	26.40	1.0000	1.00	NO	100	100	0.302	

Name	RT	wt Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 2,3,7,8-TCDD	27.06	1.995e2	2.277e2	0.88	NO	0.28700	0.28691



Dataset: Untitled

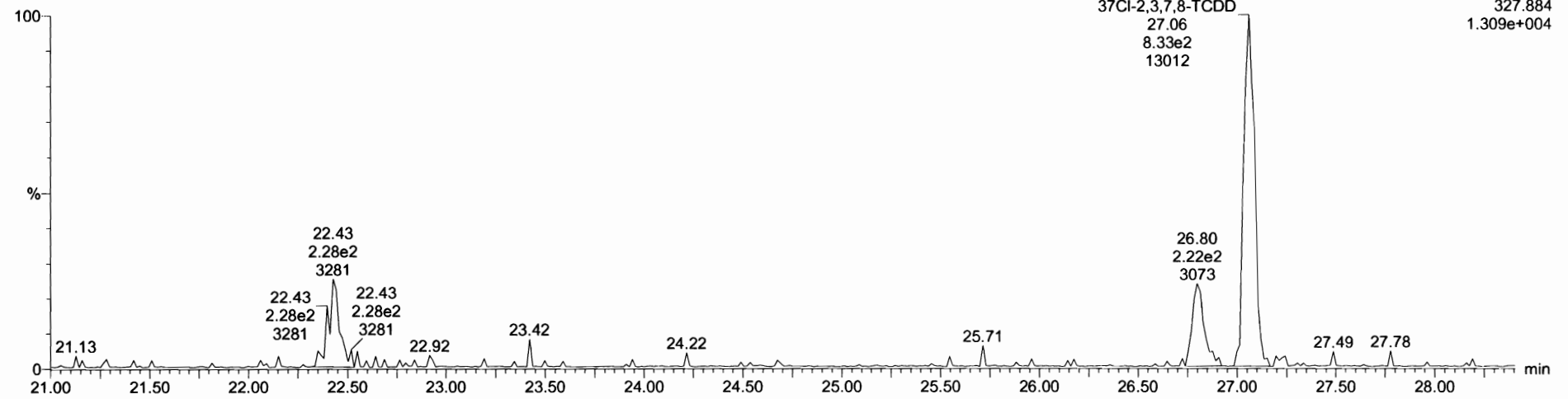
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1\_1, Date: 08-Apr-2021, Time: 08:27:40, ID: ST210408D1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706

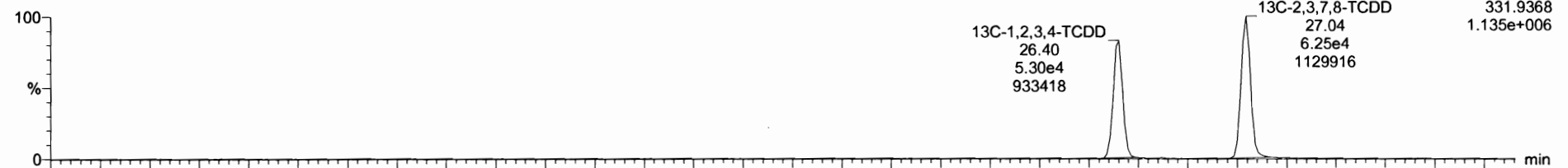
**37Cl-2,3,7,8-TCDD**

210408D1\_1

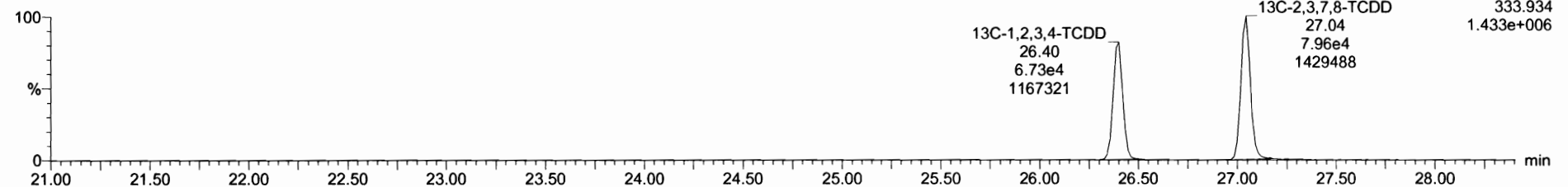


**13C-1,2,3,4-TCDD**

210408D1\_1



210408D1\_1



Dataset: Untitled

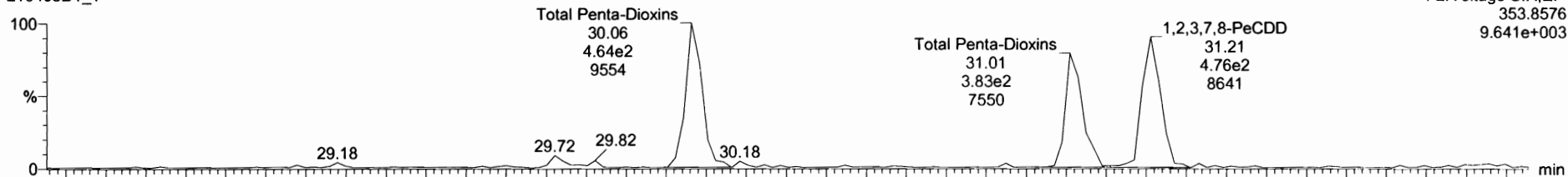
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

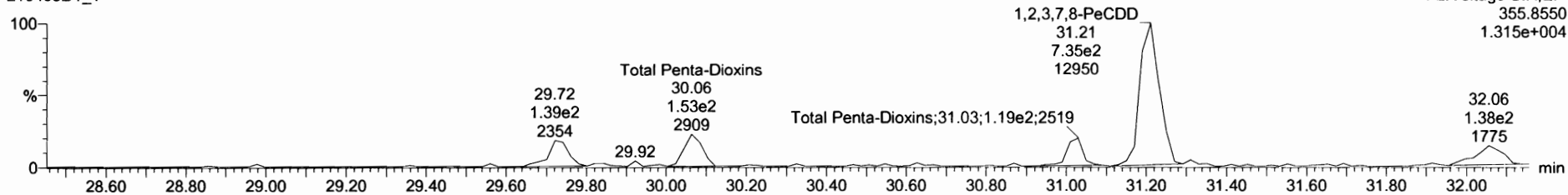
Name: 210408D1\_1, Date: 08-Apr-2021, Time: 08:27:40, ID: ST210408D1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706

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

210408D1\_1

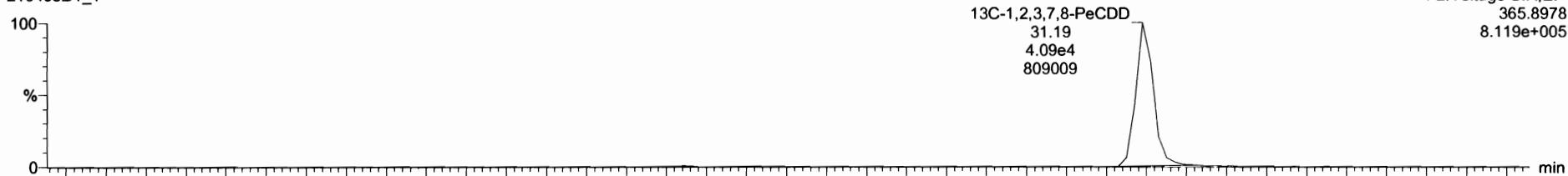


210408D1\_1

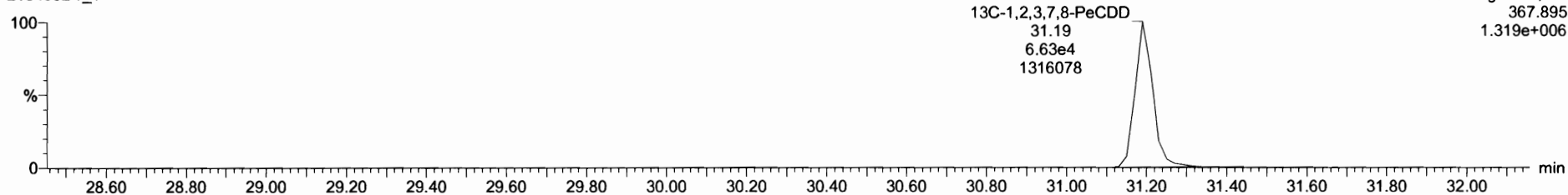


**13C-1,2,3,7,8-PeCDD**

210408D1\_1



210408D1\_1



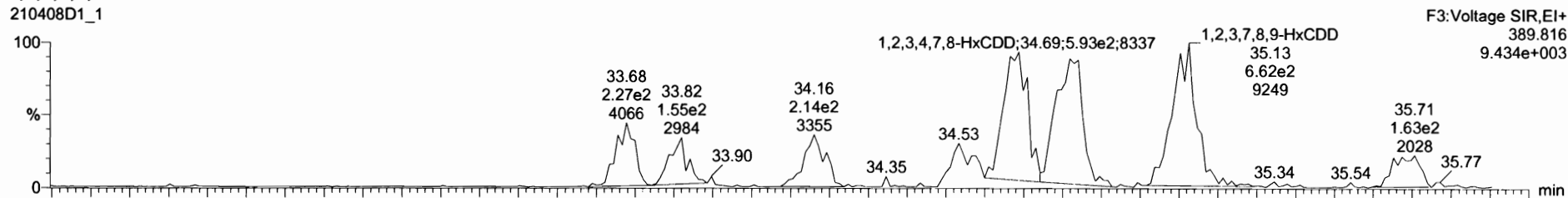
Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

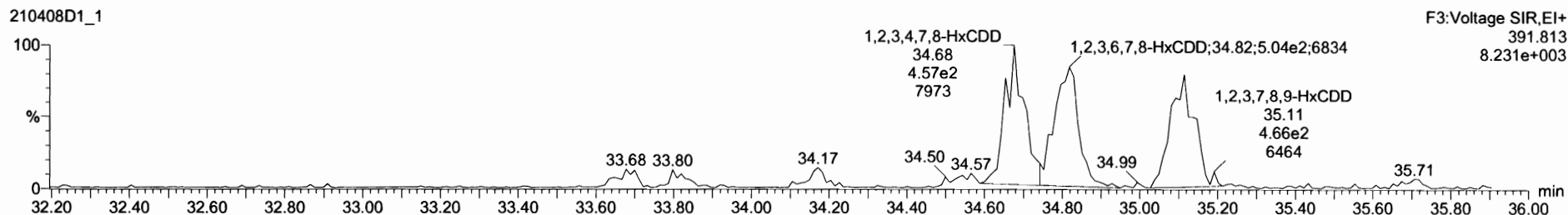
Name: 210408D1\_1, Date: 08-Apr-2021, Time: 08:27:40, ID: ST210408D1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706

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

210408D1\_1

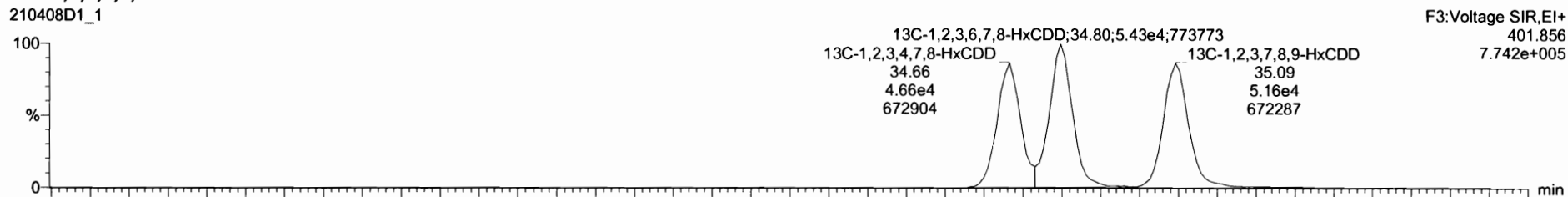


210408D1\_1

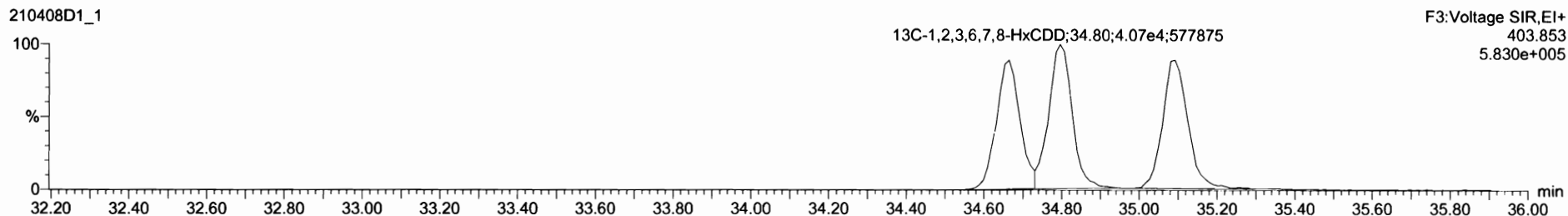


**13C-1,2,3,4,7,8-HxCDD**

210408D1\_1

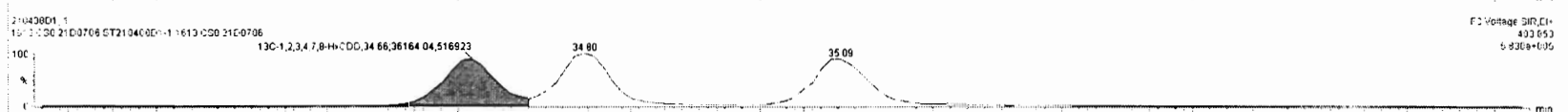
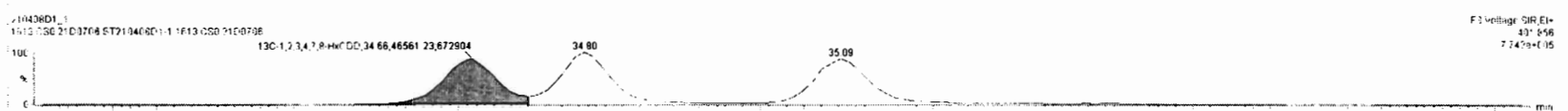
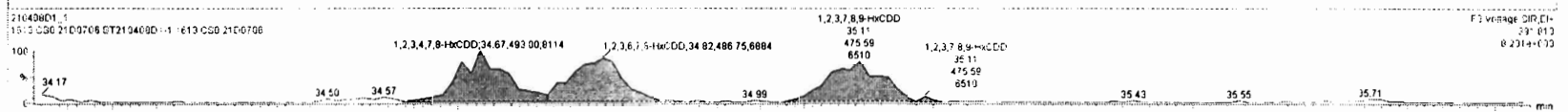
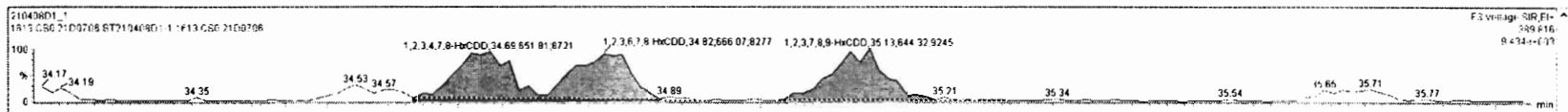


210408D1\_1



Name	Resp	RA	nly	RPF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				1.01	1.000			3.83		0.298	3.83
42 Total Hepta-Dioxins				1.07	1.000			1.24		0.253	1.24
43 Total Tetra-Furans				0.86	1.000			0.220		0.0323	0.220
44 1st Func. Penta-Furans				0.95	1.000					0.00820	
45 Total Penta-Furans				0.95	1.000			2.36		0.0338	2.36

Name	RT	amt Resp	n2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,7,8,9-HxCDD	35.13	6.443e2	4.756e2	1.36	NO	1.2140	1.2143
2 1,2,3,6,7,8-HxCDD	34.82	8.881e2	4.868e2	1.37	NO	1.2010	1.2014
3 1,2,3,4,7,8-HxCDD	34.69	6.518e2	4.930e2	1.32	NO	1.2110	1.2108



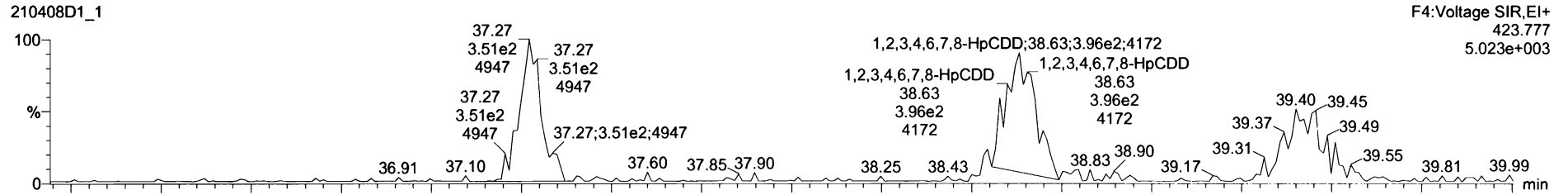
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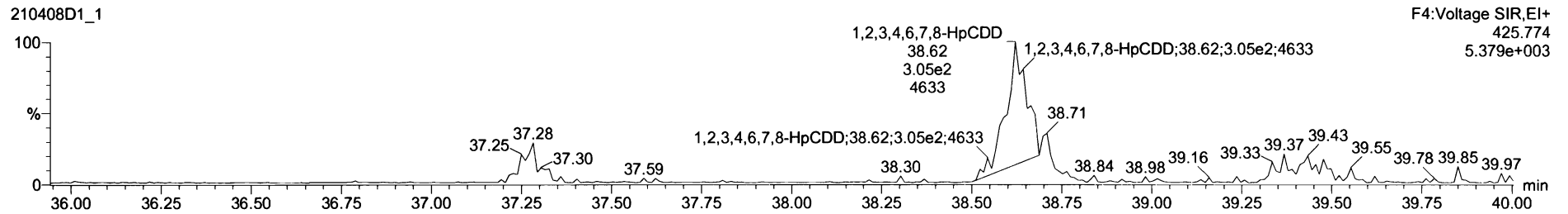
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1,2,3,4,6,7,8-HpCDD

210408D1\_1

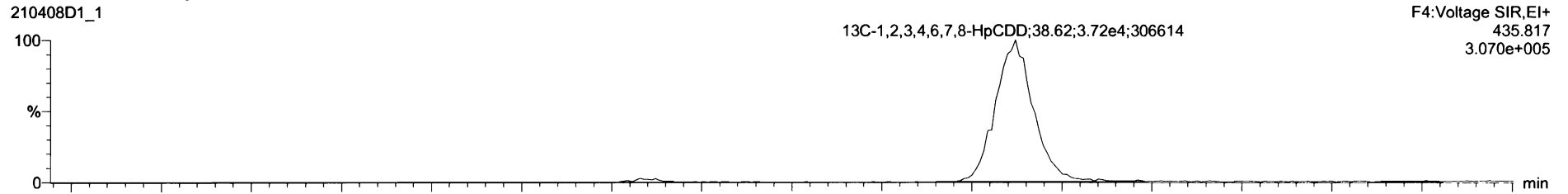


210408D1\_1

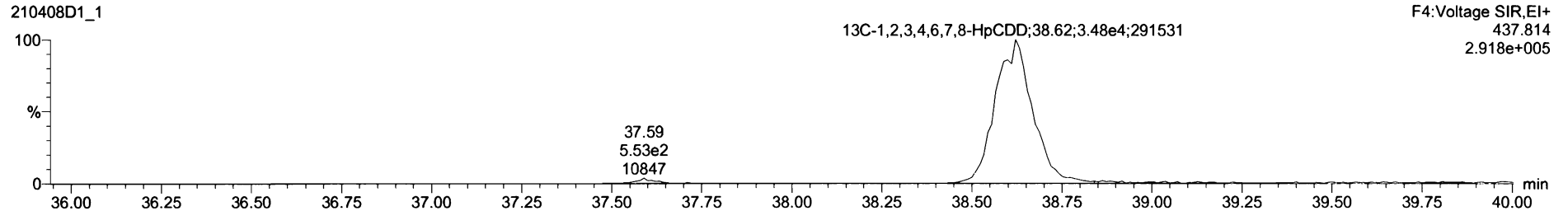


13C-1,2,3,4,6,7,8-HpCDD

210408D1\_1

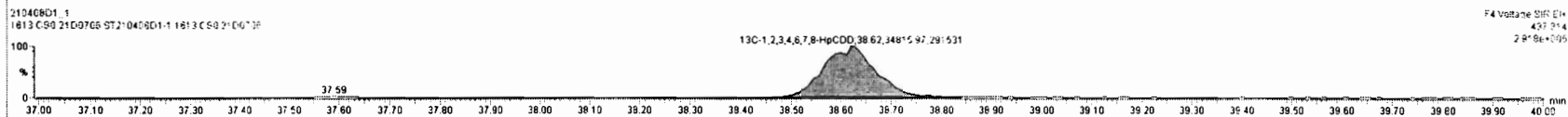
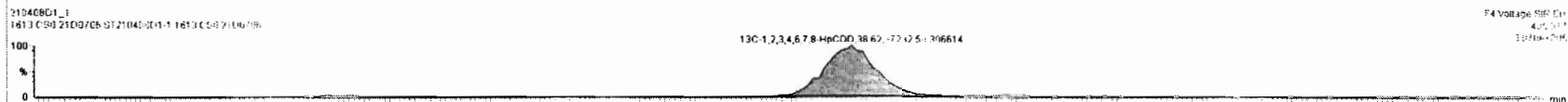
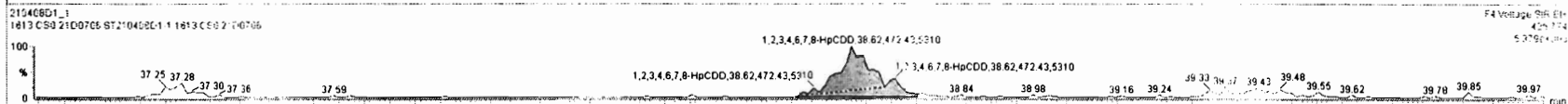
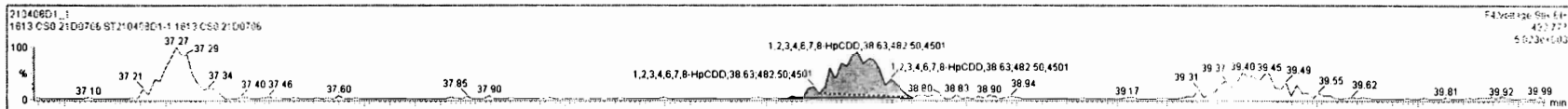


210408D1\_1



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				1.01	1.000			3.63		0.298	3.63
42 Total Hepta-Dioxins				1.07	1.000			1.24		0.253	1.24
43 Total Tetra-Furans				0.86	1.000			0.220		0.0323	0.220
44 1st Func. Penta-Furans				0.95	1.000					0.00820	
45 Total Penta-Furans				0.95	1.000			2.36		0.0338	2.36

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDD	38.63	4.825e2	4.724e2	1.02	NO	1.2440	1.2445



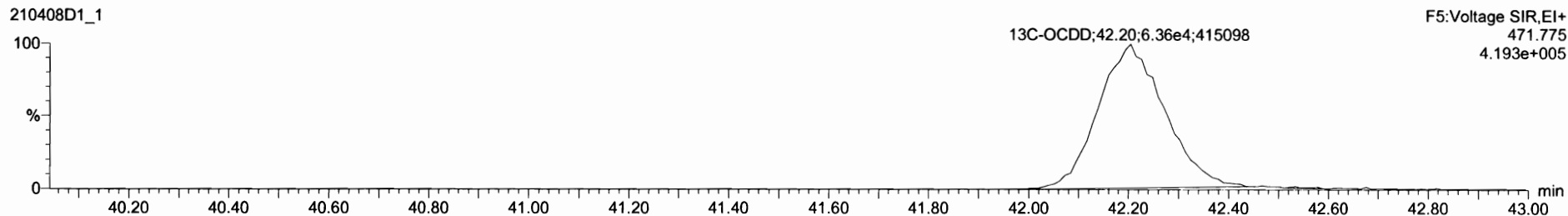
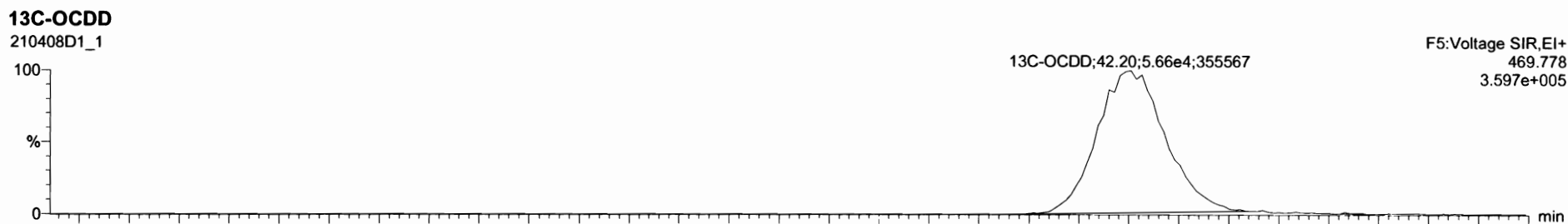
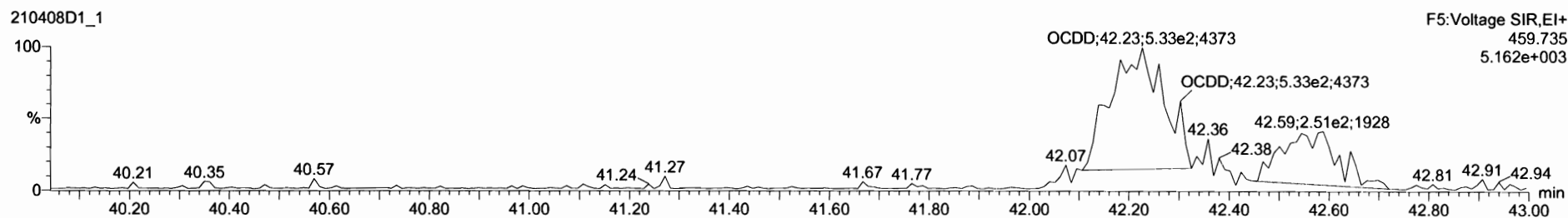
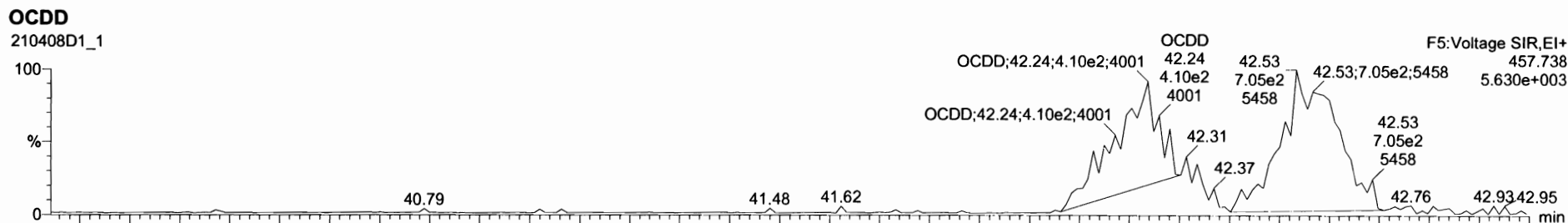


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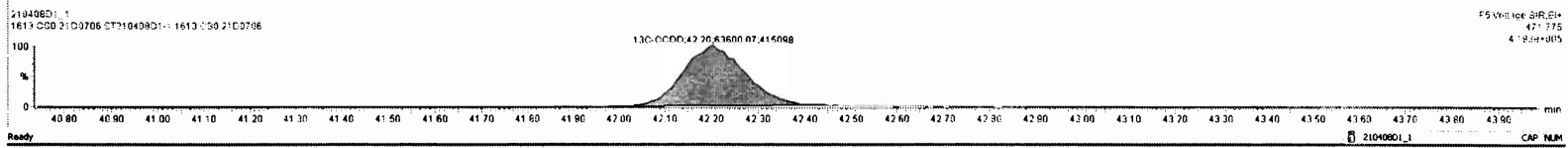
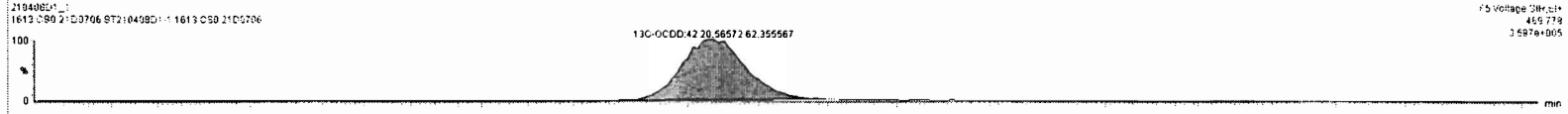
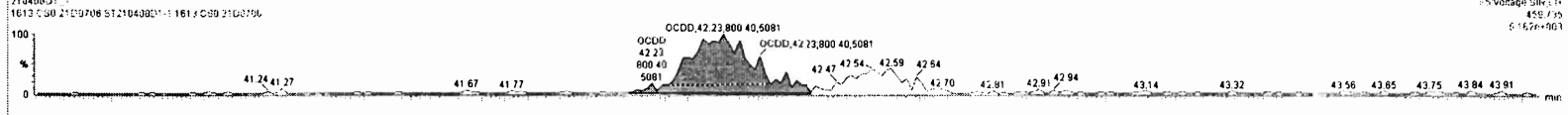
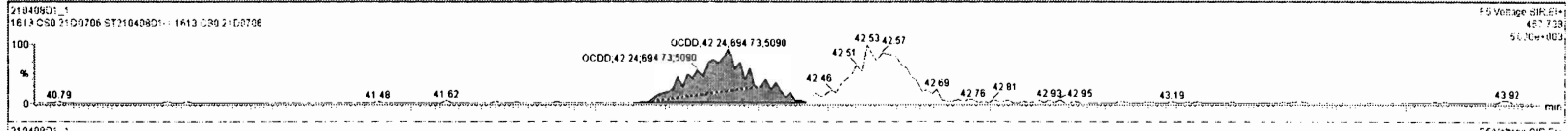
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1\_1, Date: 08-Apr-2021, Time: 08:27:40, ID: ST210408D1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706



Name	Resp	IS Resp	RF	width	Pred RT	RT	RRT	Pred RRT	RRT Flag	Comp	%Rec	DL	EMPC
1 2,3,7,8-TCDD	4.27e2	1.42e5	1.0478	1.000	27.07	27.06	1.0006	1.00	NO	0.287	115	0.0684	0.287
2 1,2,3,7,8-PeCDD	1.21e3	1.07e5	0.8813	1.000	31.21	31.21	1.0007	1.00	NO	1.28	103	0.0558	1.28
3 1,2,3,4,7,8-HxCDD	1.14e3	8.27e4	1.1429	1.000	34.67	34.68	1.0006	1.00	NO	1.21	96.9	0.273	1.21
4 1,2,3,6,7,8-HxCDD	1.15e3	9.49e4	1.0108	1.000	34.81	34.82	1.0006	1.00	NO	1.20	96.1	0.273	1.20
5 1,2,3,7,8,9-HxCDD	1.12e3	9.05e4	1.0194	1.000	35.12	35.13	1.0008	1.00	NO	1.21	97.1	0.311	1.21
6 1,2,3,4,6,7,8-HpCDD	9.55e2	7.20e4	1.0650	1.000	38.63	38.63	1.0003	1.00	NO	1.24	99.6	0.253	1.24
7 OCDD	1.50e3	1.20e5	1.0022	1.000	42.20	42.24	1.0008	1.00	NO	2.48	98.3	0.050	2.48
8 2,3,7,8-TCDF	4.18e2	2.20e5	0.8637	1.000	26.49	26.49	1.0012	1.00	NO	0.220	87.8	0.0323	0.220
9 1,2,3,7,8-PeCDF	1.75e3	1.62e5	0.8494	1.000	30.08	30.08	1.0007	1.00	NO	1.14	98.9	0.0340	1.14
10 2,3,4,7,8-PeCDF	2.08e3	1.62e5	1.0377	1.000	31.06	31.03	1.0000	1.00	NO	1.23	98.1	0.0307	1.23
11 1,2,3,4,7,8-HxCDF	1.56e3	1.26e5	1.0430	1.000	33.70	33.70	1.0007	1.00	NO	1.19	95.0	0.0600	1.19
12 1,2,3,6,7,8-HxCDF	1.70e3	1.35e5	1.0742	1.000	33.83	33.83	1.0004	1.00	NO	1.18	94.0	0.0566	1.18
13 2,3,4,6,7,8-HpCDF	1.59e3	1.25e5	1.1171	1.000	34.55	34.57	1.0006	1.00	NO	1.13	90.7	0.0646	1.13
14 1,2,3,7,8,9-HxCDF	1.52e3	1.09e5	1.0987	1.000	35.69	35.71	1.0006	1.00	NO	1.27	102	0.0886	1.27
15 1,2,3,4,6,7,8-HpCDF	1.31e3	9.30e4	1.1599	1.000	37.31	37.26	1.0003	1.00	NO	1.21	96.8	0.103	1.21
16 1,2,3,4,7,8,9-HpCDF	1.12e3	7.54e4	1.1869	1.000	39.41	39.43	1.0006	1.00	NO	1.25	100	0.240	1.25
17 OCDF	1.62e3	1.72e5	0.9088	1.000	42.58	42.58	1.0008	1.00	NO	2.32	97.9	0.211	2.32



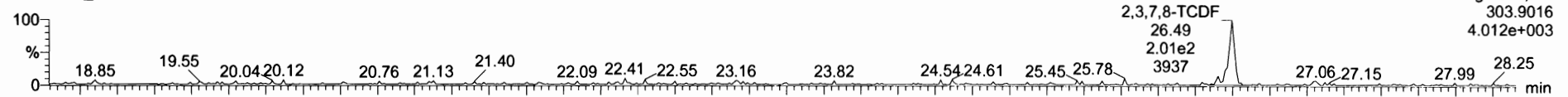
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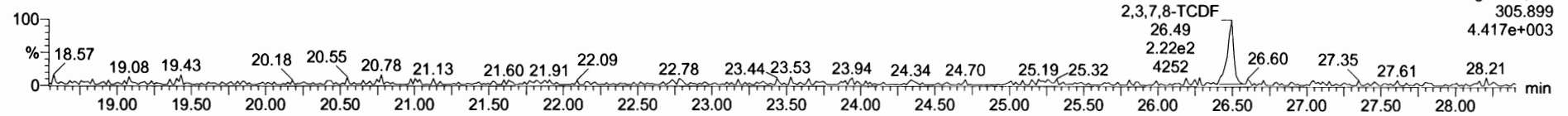
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**2,3,7,8-TCDF**

210408D1\_1

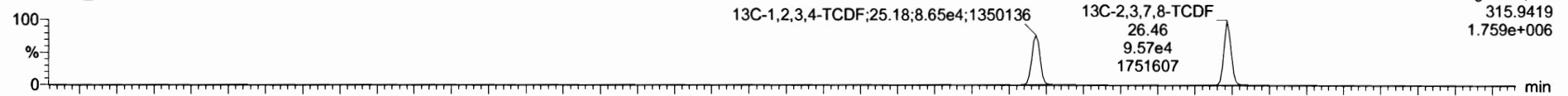


210408D1\_1

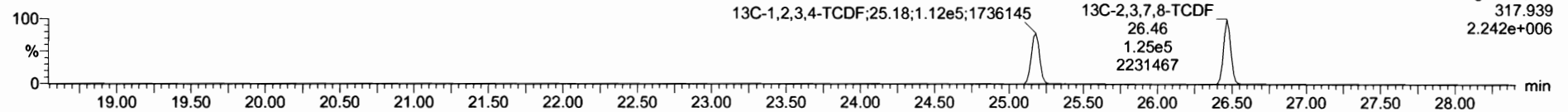


**13C-2,3,7,8-TCDF**

210408D1\_1

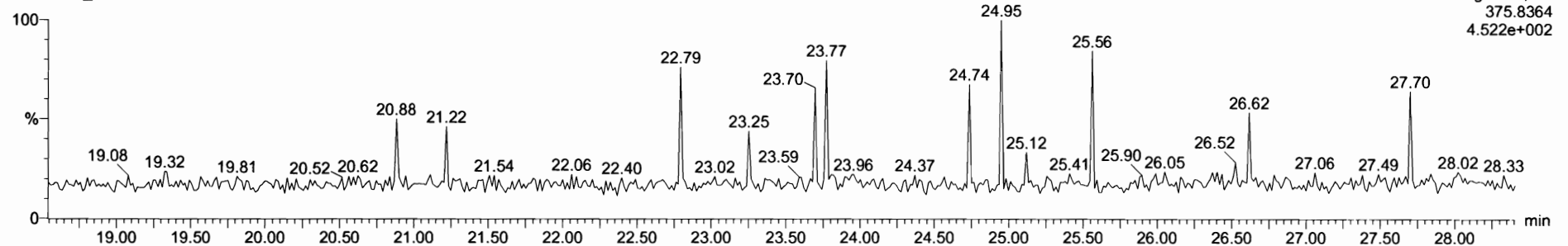


210408D1\_1



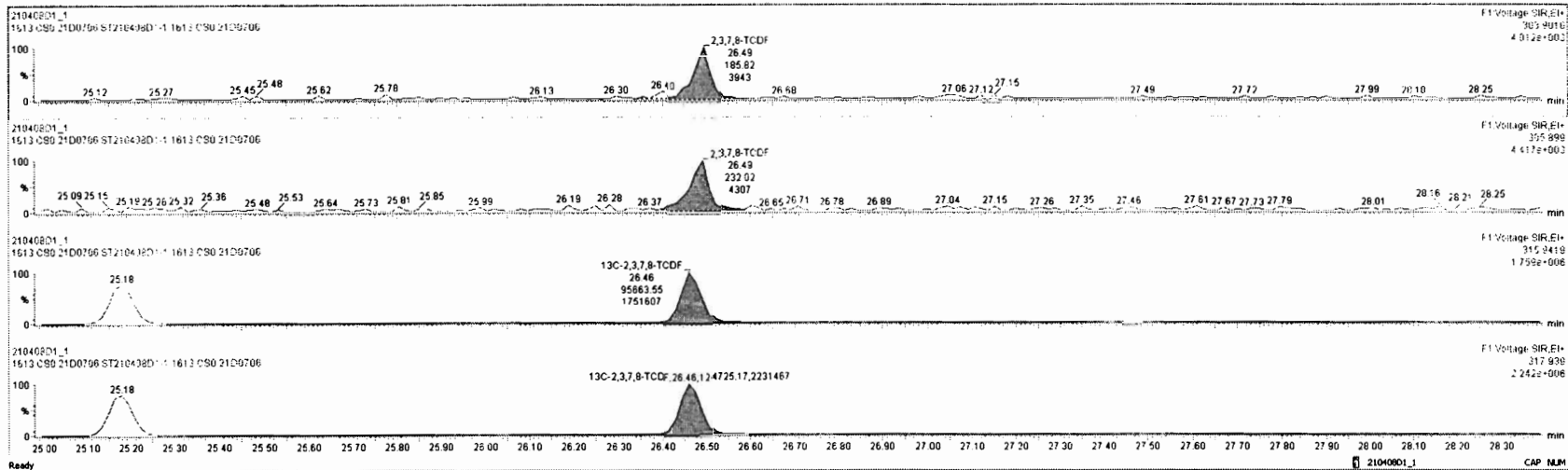
**DPE1**

210408D1\_1



Name	Resp	RA	nly	RRF	wt/Vol	RT	PRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				1.01	1.000			3.63	0.298	3.63	
42 Total Hepta-Dioxins				1.07	1.000			1.24	0.253	1.24	
43 Total Tetra-Furans				0.86	1.000			0.220	0.0323	0.220	
44 1st Func. Penta-Furans				0.95	1.000				0.00820		
45 Total Penta-Furans				0.95	1.000			2.36	0.0338	2.36	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 2,3,7,8-TCDF	26.49	1.859e2	2.320e2	0.80	NO	0.22000	0.21951



Dataset: Untitled

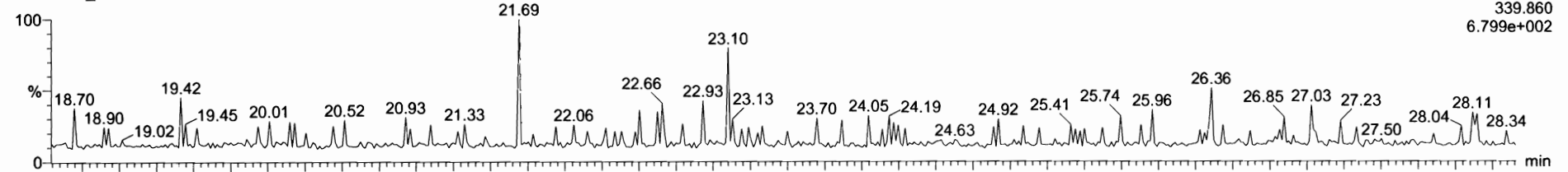
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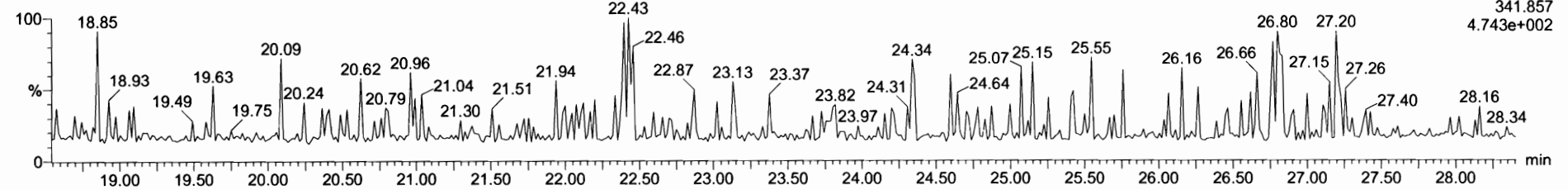
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1st Func. Penta-Furans

210408D1\_1

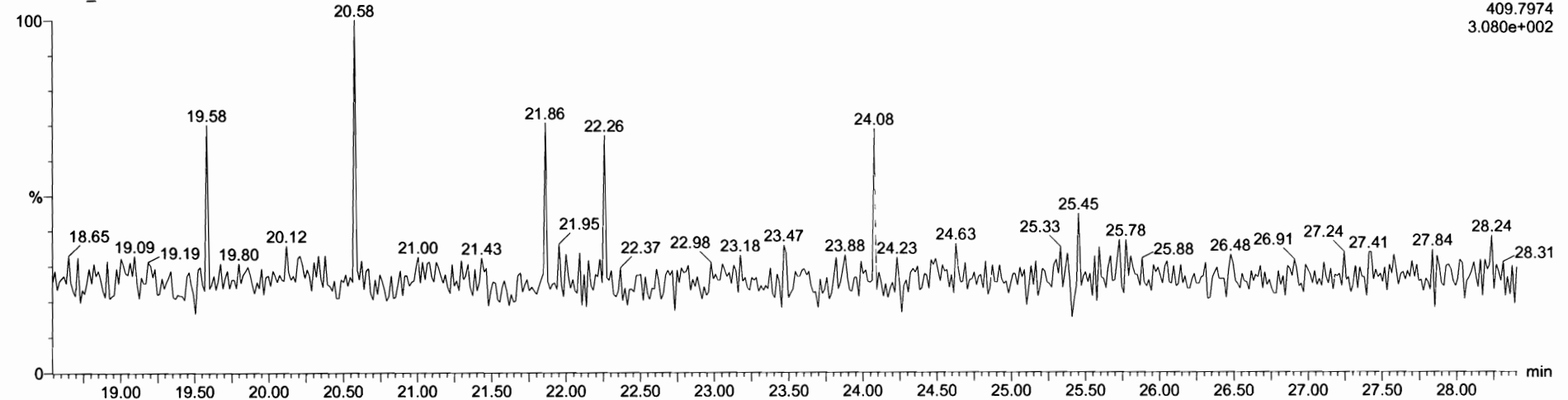


210408D1\_1



DPE6

210408D1\_1



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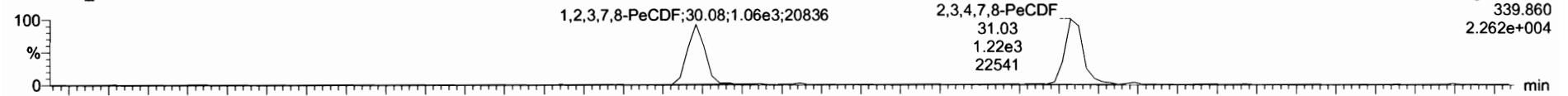
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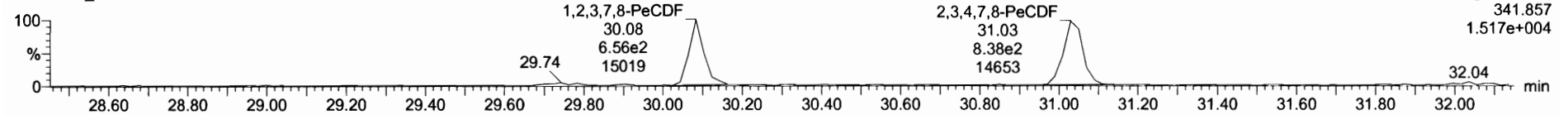
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**1,2,3,7,8-PeCDF**

210408D1\_1

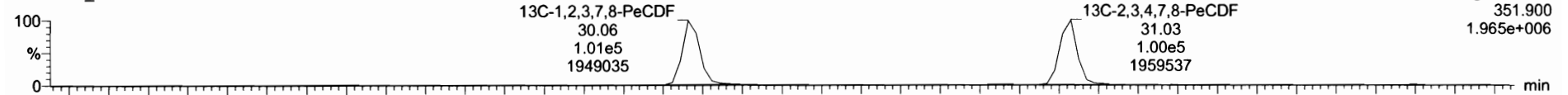


210408D1\_1

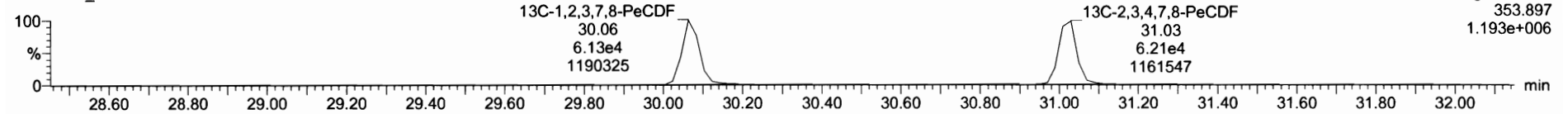


**13C-1,2,3,7,8-PeCDF**

210408D1\_1

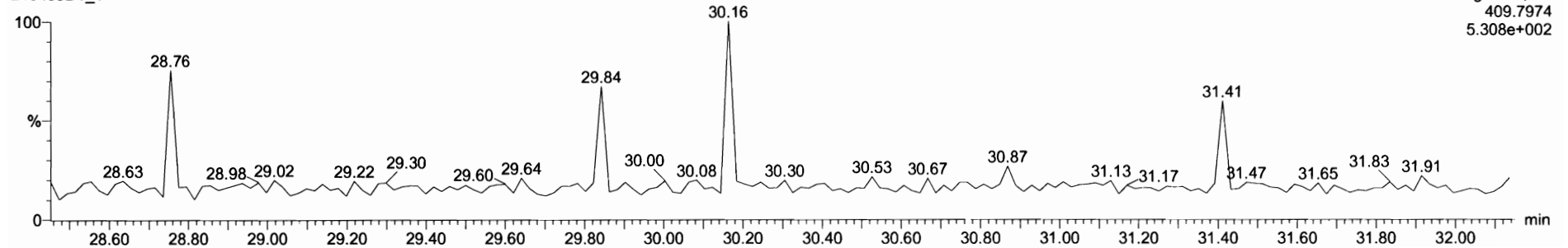


210408D1\_1



**DPE2**

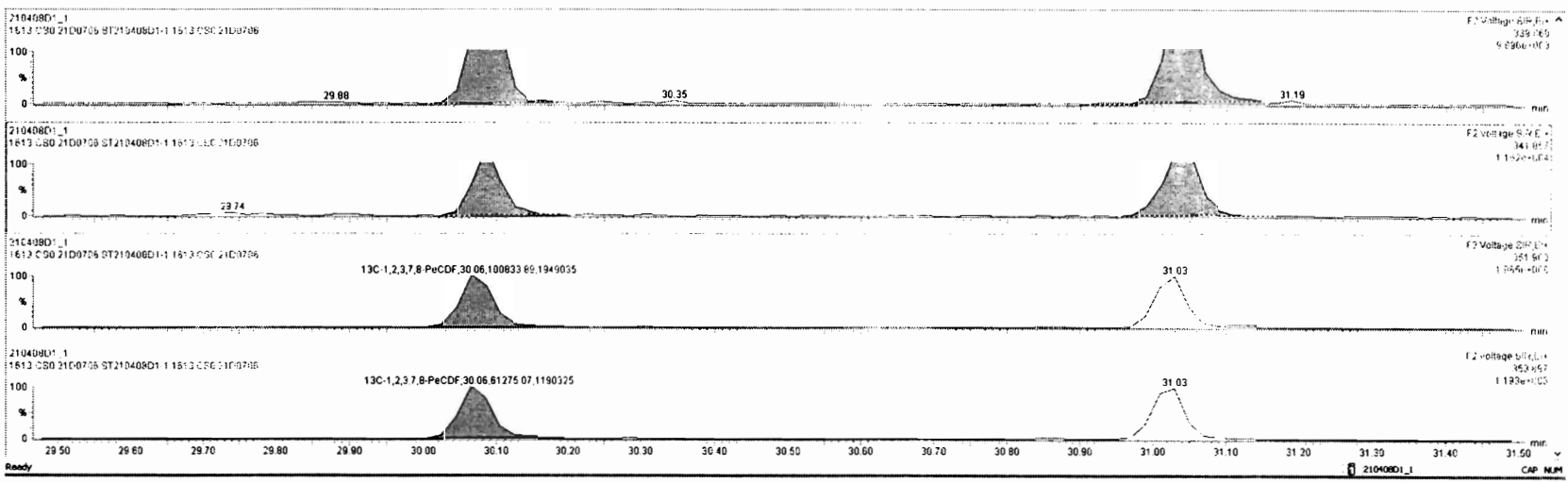
210408D1\_1



210408D1\_1 - ST210408D1-1 1613 C50 21D0706 - 1613 C50 21D0706

Name	Resp	RA	nV	RFF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				1.01	1.000			3.63	0.298	3.63	
42 Total Hepta-Dioxins				1.07	1.000			1.24	0.253	1.24	
43 Total Tetra-Furans				0.86	1.000			0.220	0.0323	0.220	
44 1st Func. Penta-Furans				0.95	1.000				0.0020		
45 Total Penta-Furans				0.95	1.000			2.36	0.0338	2.36	

Name	RT	mV Resp	nV Resp	RA	nV	EMPC	Conc.
1 1,2,3,4,7,8-PeCDF	31.03	1.217e3	8.446e2	1.44	NO	1.2260	1.2258
2 1,2,3,7,8-PeCDF	30.08	1.072e3	6.755e2	1.59	NO	1.1370	1.1367



Dataset: Untitled

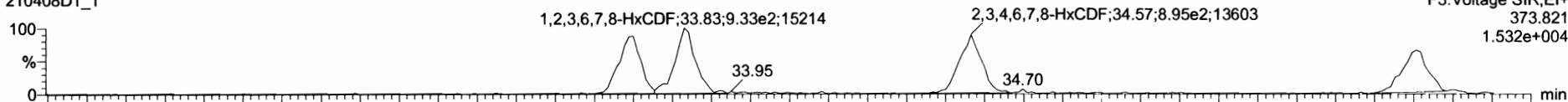
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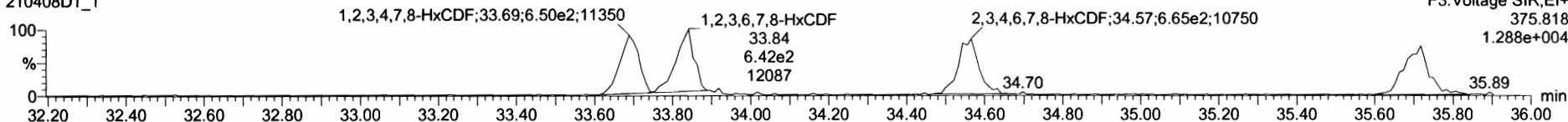
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**1,2,3,4,7,8-HxCDF**

210408D1\_1

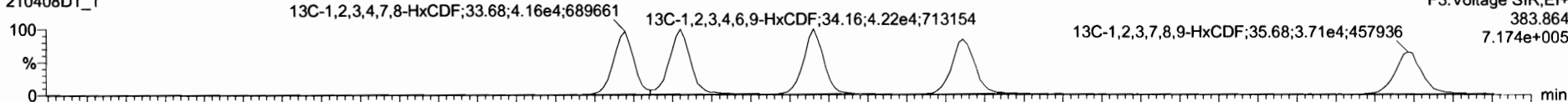


210408D1\_1

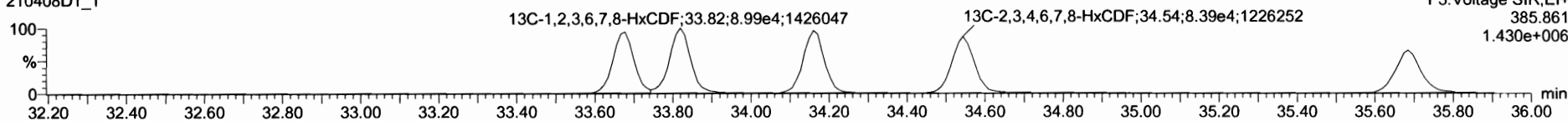


**13C-1,2,3,4,7,8-HxCDF**

210408D1\_1

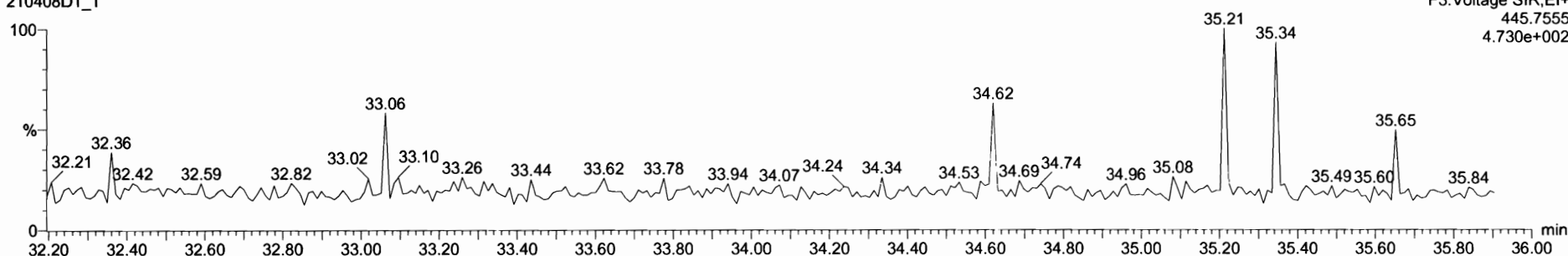


210408D1\_1



**DPE3**

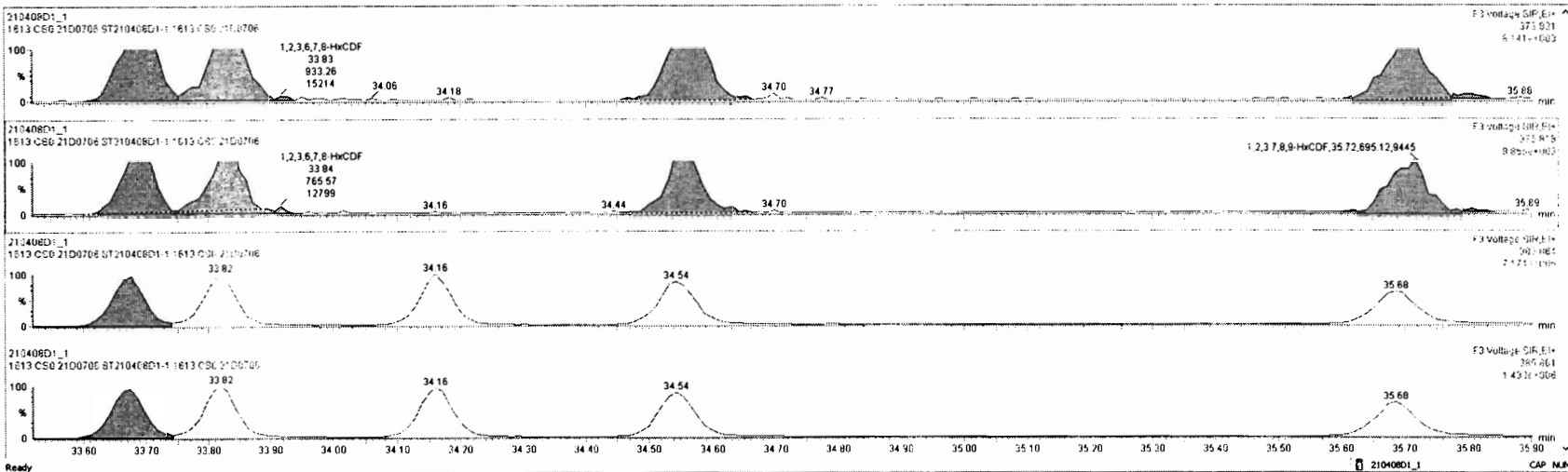
210408D1\_1





Name	Resp	RA	nHy	RRF	WtAveI	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				1.01	1.000			3.63		0.298	3.63
42 Total Hepta-Dioxins				1.07	1.000			1.24		0.253	1.24
43 Total Tetra-Furans				0.86	1.000			0.220		0.0323	0.220
44 1st Func. Penta-Furans				0.95	1.000					0.00820	
45 Total Penta-Furans				0.95	1.000			2.36		0.0338	2.36

Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc.
1 1,2,3,7,8-HxCDF	35.71	8.280e2	6.951e2	1.19	NO	1.2730	1.2730
2 2,3,4,6,7,8-HxCDF	34.57	9.004e2	6.859e2	1.31	NO	1.1330	1.1334
3 1,2,3,6,7,8-HxCDF	33.83	9.333e2	7.656e2	1.22	NO	1.1750	1.1753
4 1,2,3,4,7,8-HxCDF	33.70	8.739e2	6.853e2	1.27	NO	1.1870	1.1869



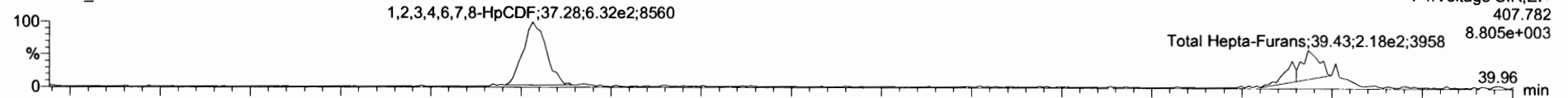
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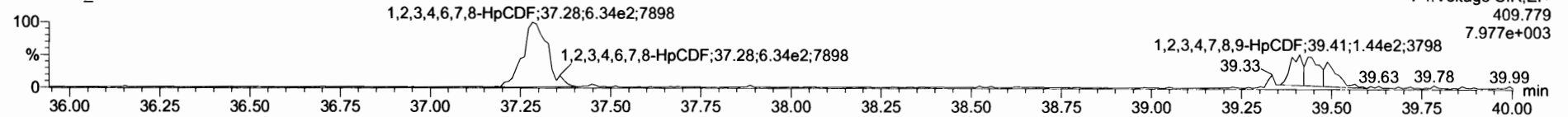
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**1,2,3,4,6,7,8-HpCDF**

210408D1\_1

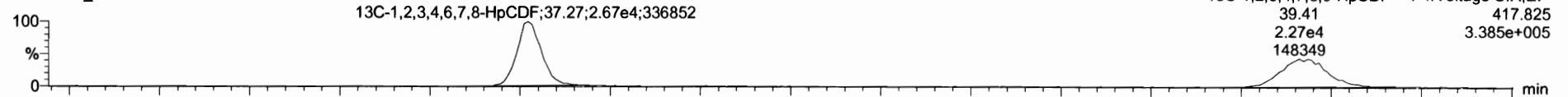


210408D1\_1

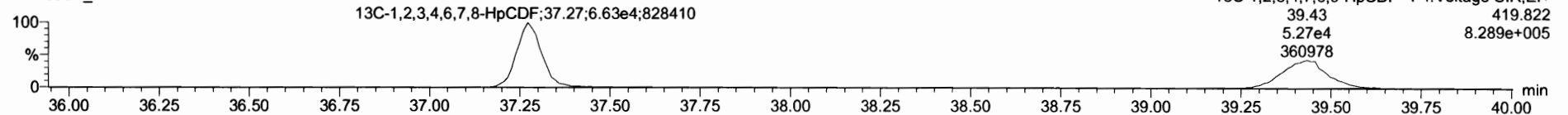


**13C-1,2,3,4,6,7,8-HpCDF**

210408D1\_1

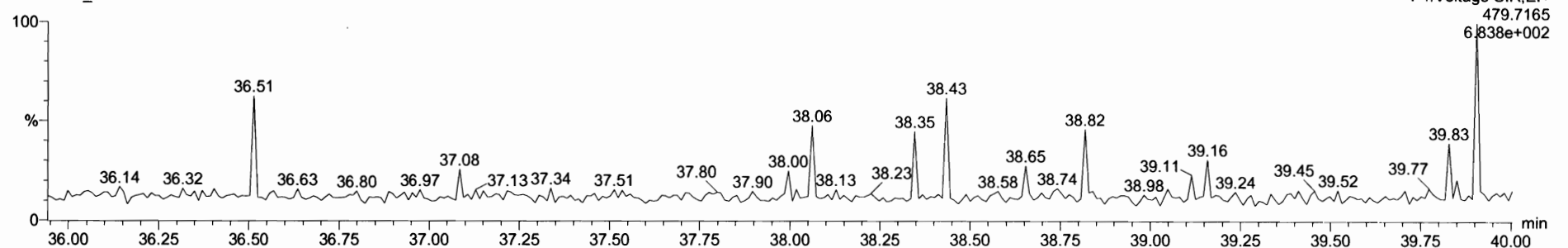


210408D1\_1



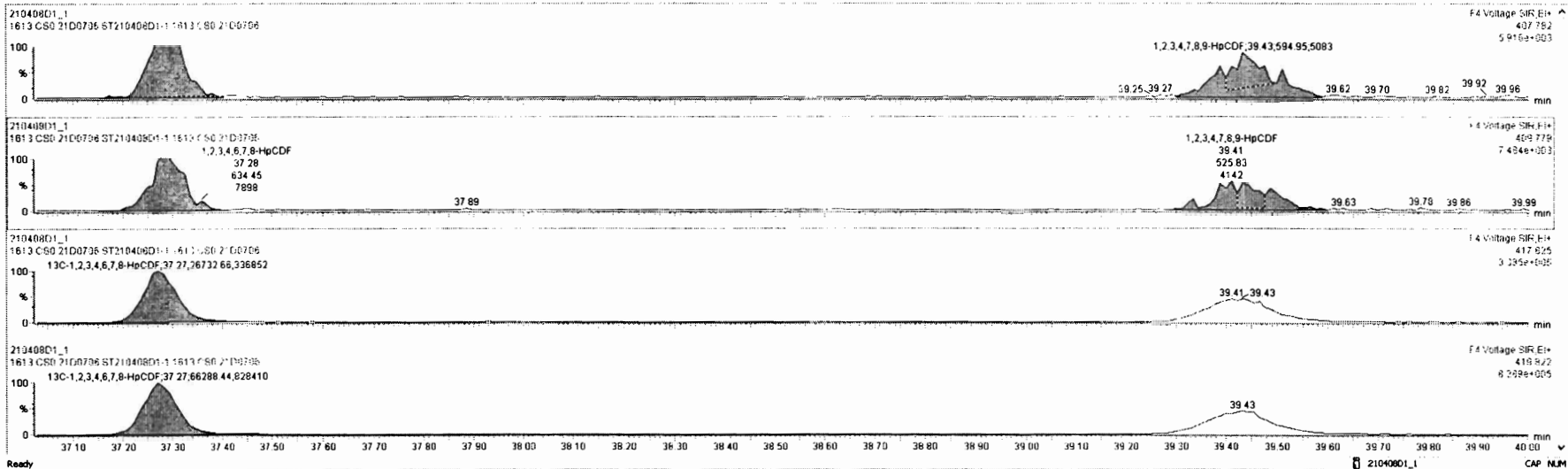
**DPE4**

210408D1\_1



Name	Resp	RA	nV	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
47 Total Hepta-Furans				1.18	1.000			2.48		0.187	2.48
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	nV	EMPC	Conc.
1 1,2,3,4,7,8,9-HpCDF	39.43	5.949e2	5.250e2	1.13	NO	1.2530	1.2528
2 1,2,3,4,6,7,8-HpCDF	37.28	6.714e2	6.345e2	1.06	NO	1.2100	1.2103

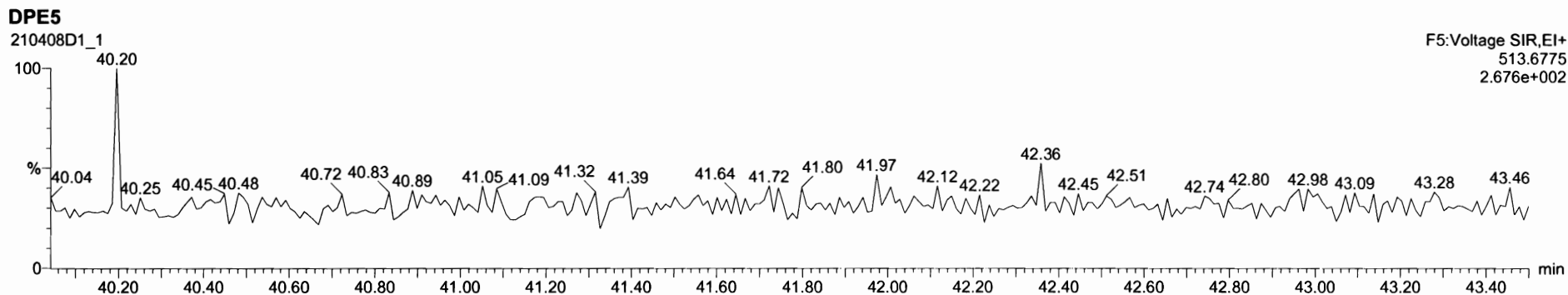
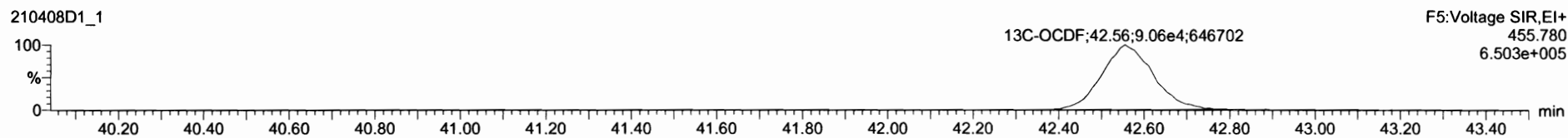
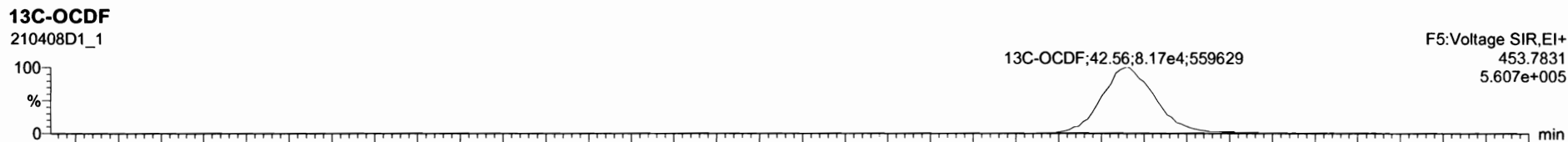
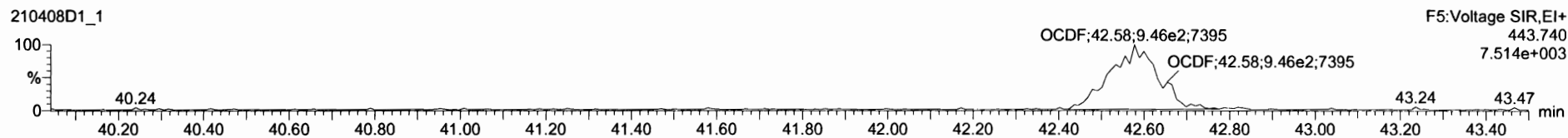
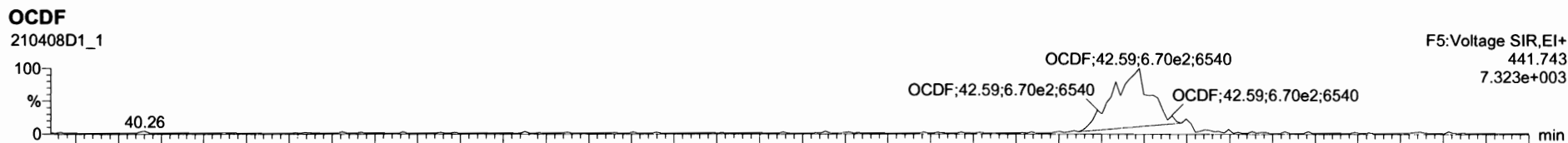


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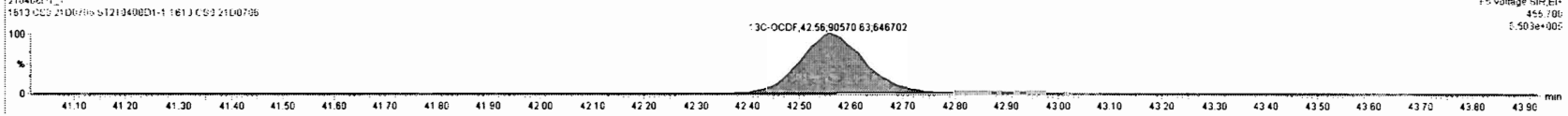
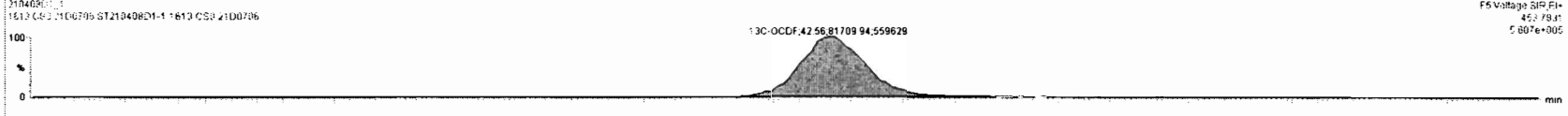
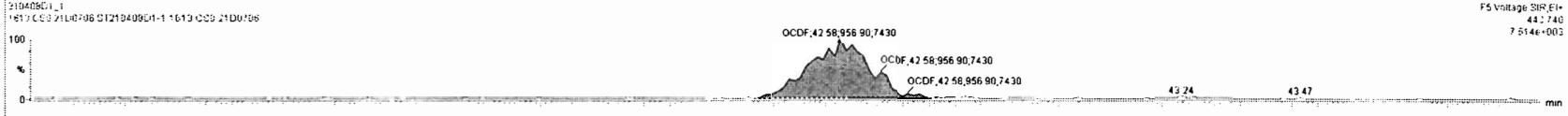
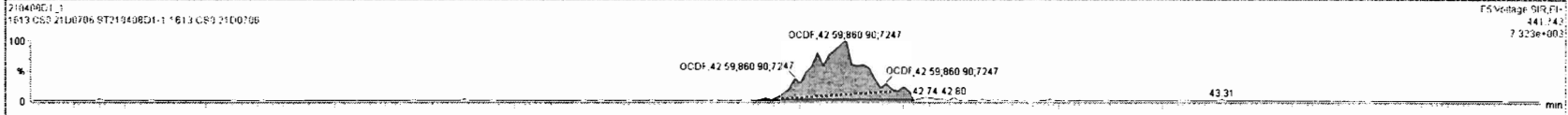
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Name: 210408D1\_1, Date: 08-Apr-2021, Time: 08:27:40, ID: ST210408D1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706



#	Name	Resp	IS Resp	RRF	wtVol	Pred RT	RT	RRT	Pred RRT	RRT Fail	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	4.27e2	1.42e5	1.0478	1.000	27.07	27.06	1.0006	1.00	NO	0.287	115	0.0684	0.287
2	1,2,3,7,8-PeCDD	1.21e3	1.07e5	0.8813	1.000	31.21	31.21	1.0007	1.00	NO	1.28	103	0.0556	1.28
3	1,2,3,4,7,8-HxCDD	1.14e3	8.27e4	1.1429	1.000	34.67	34.69	1.0006	1.00	NO	1.21	96.9	0.273	1.21
4	1,2,3,6,7,8-HxCDD	1.15e3	9.49e4	1.0106	1.000	34.81	34.82	1.0006	1.00	NO	1.20	96.1	0.273	1.20
5	1,2,3,7,8,9-HxCDD	1.12e3	9.05e4	1.0194	1.000	35.12	35.13	1.0009	1.00	NO	1.21	97.1	0.311	1.21
6	1,2,3,4,6,7,8-HpCDD	9.55e2	7.20e4	1.0650	1.000	38.63	38.63	1.0003	1.00	NO	1.24	99.6	0.253	1.24
7	OCDD	1.50e3	1.20e5	1.0022	1.000	42.20	42.24	1.0006	1.00	NO	2.48	99.3	0.590	2.48
8	2,3,7,8-TCDF	4.19e2	2.20e5	0.8637	1.000	26.49	26.49	1.0012	1.00	NO	0.220	87.8	0.0223	0.220
9	1,2,3,7,8-PeCDF	1.75e3	1.62e5	0.9484	1.000	30.08	30.08	1.0007	1.00	NO	1.14	90.9	0.0340	1.14
10	2,3,4,7,8-PeCDF	2.06e3	1.62e5	1.0377	1.000	31.06	31.03	1.0000	1.00	NO	1.23	98.1	0.0307	1.23
11	1,2,3,4,7,8-HxCDF	1.56e3	1.26e5	1.0430	1.000	33.70	33.70	1.0007	1.00	NO	1.19	95.0	0.0600	1.19
12	1,2,3,6,7,8-HxCDF	1.70e3	1.35e5	1.0742	1.000	33.83	33.83	1.0004	1.00	NO	1.18	94.0	0.0566	1.18
13	2,3,4,6,7,8-HxCDF	1.59e3	1.25e5	1.1171	1.000	34.55	34.57	1.0006	1.00	NO	1.13	90.7	0.0646	1.13
14	1,2,3,7,8,9-HxCDF	1.52e3	1.09e5	1.0987	1.000	35.89	35.71	1.0006	1.00	NO	1.27	102	0.0886	1.27
15	1,2,3,4,6,7,8-HpCDF	1.31e3	9.30e4	1.1598	1.000	37.31	37.26	1.0003	1.00	NO	1.21	96.8	0.103	1.21
16	1,2,3,4,7,8,9-HpCDF	1.12e3	7.54e4	1.1883	1.000	39.41	39.43	1.0006	1.00	NO	1.25	100	0.240	1.25
17	OCDF	1.82e3	1.72e5	0.9086	1.000	42.56	42.58	1.0006	1.00	NO	2.32	82.8	0.211	2.32

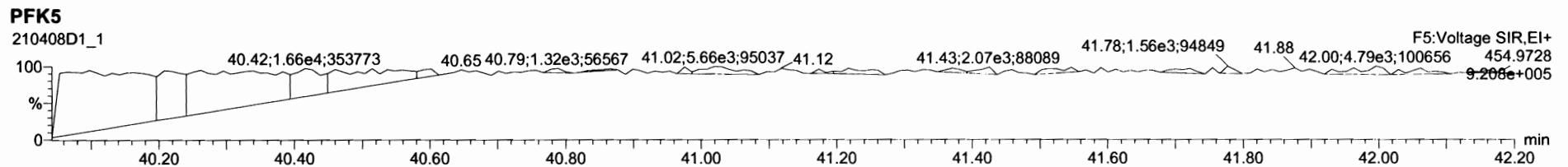
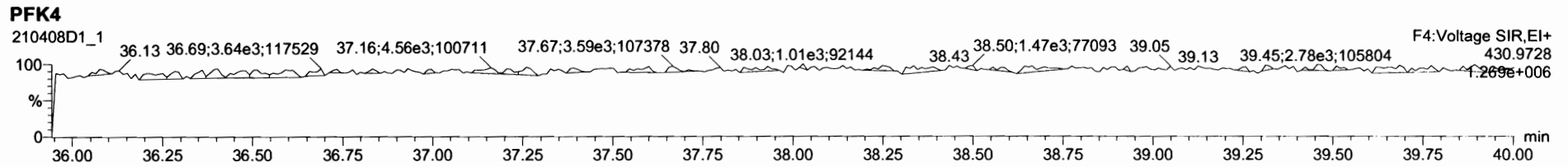
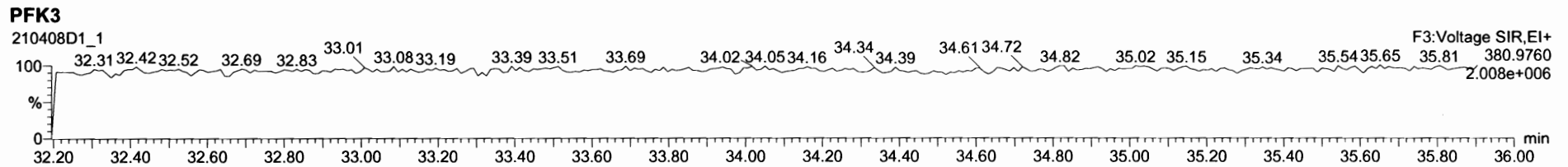
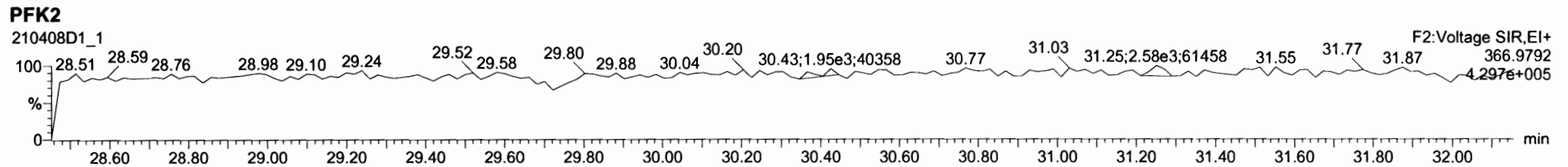
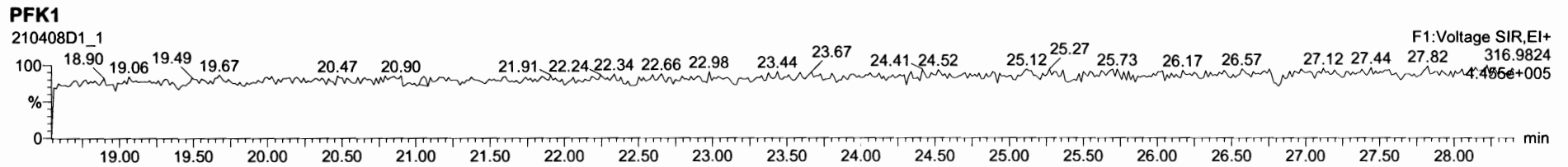


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Name: 210408D1\_1, Date: 08-Apr-2021, Time: 08:27:40, ID: ST210408D1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706



Dataset: Untitled

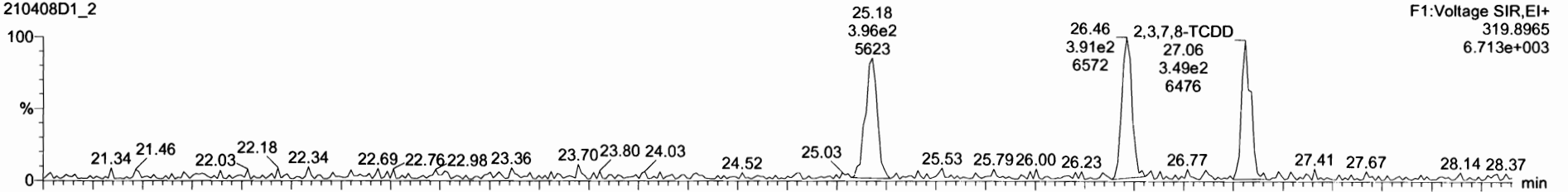
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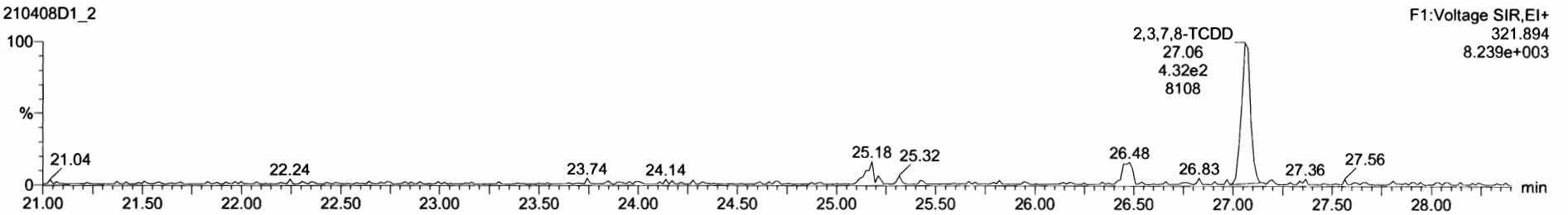
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**2,3,7,8-TCDD**

210408D1\_2

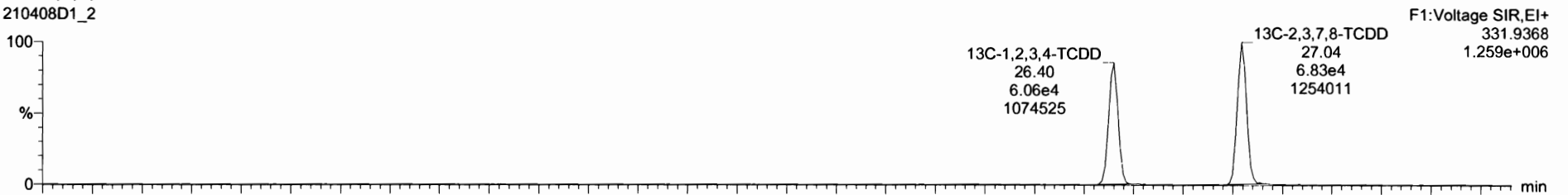


210408D1\_2

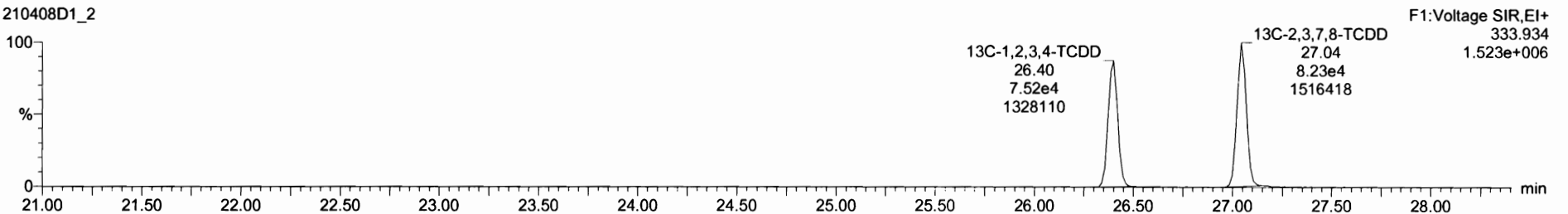


**13C-2,3,7,8-TCDD**

210408D1\_2

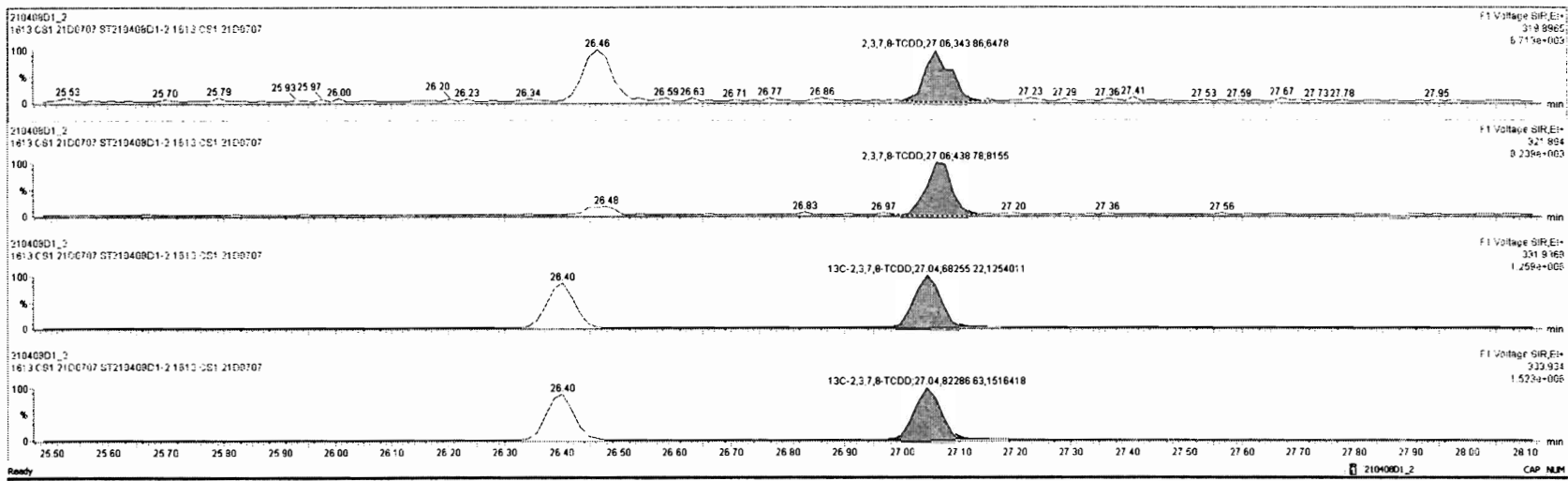


210408D1\_2



Name	Resp	RA	nHy	RRF	Vol	RT	RRT	Conc	%Rec	DL	EMPC
37 13C-1,2,3,4-TCDF	2.20e5	0.77	NO	1.00	1.000	25.18	1.000	100	100	0.221	
38 13C-1,2,3,4,6,9-HxCDF	1.41e5	0.50	NO	1.00	1.000	34.14	1.000	100	100	0.396	
39 Total Tetra-Dioxins				1.05	1.000			0.488		0.0518	0.496
40 Total Penta-Dioxins				0.88	1.000			2.40		0.0555	2.87
41 Total Hexa-Dioxins				1.01	1.000			7.18		0.147	7.18
42 Total Hepta-Dioxins				1.07	1.000			2.36		0.109	2.36
43 Total Tetra-Furans				0.86	1.000			0.499		0.0261	0.499

Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc
1 2,3,7,8-TCDD	27.06	3.439e2	4.369e2	0.78	NO	0.49600	0.49615





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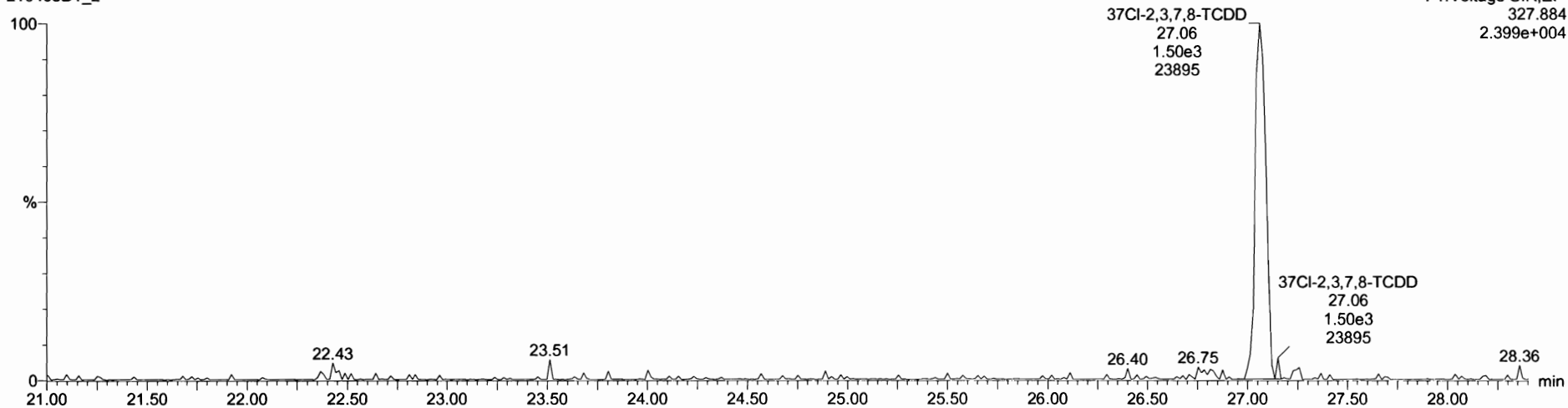
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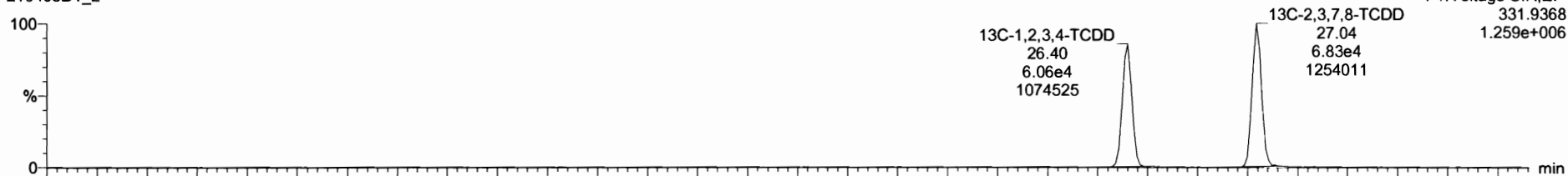
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210408D1\_2

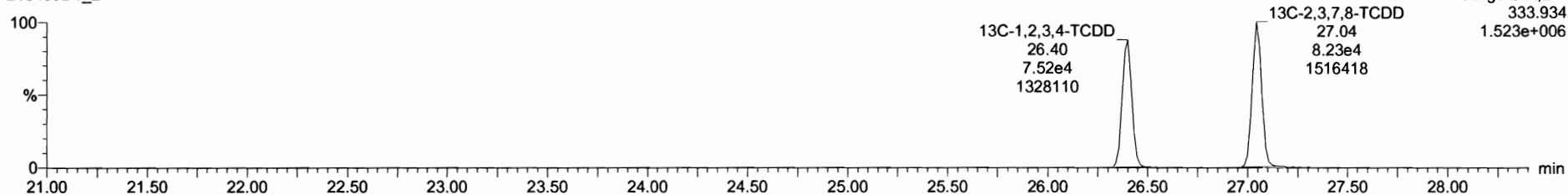


**13C-1,2,3,4-TCDD**

210408D1\_2



210408D1\_2



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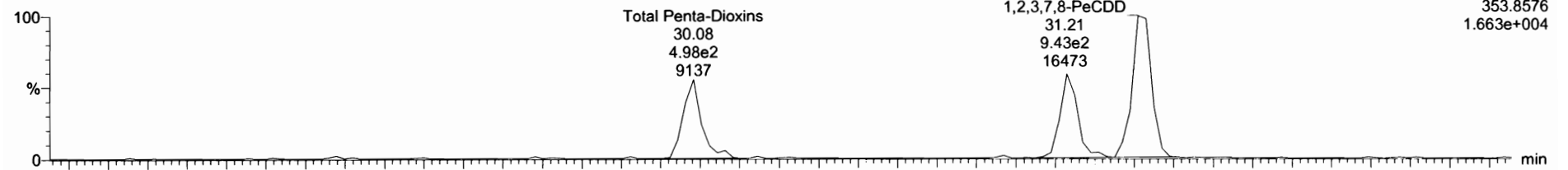
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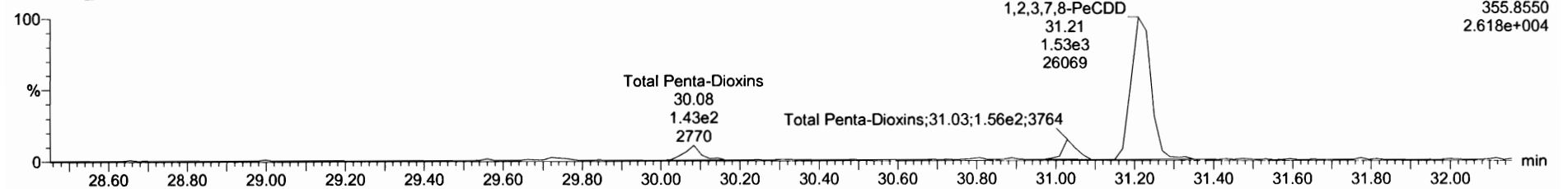
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**1,2,3,7,8-PeCDD**

210408D1\_2

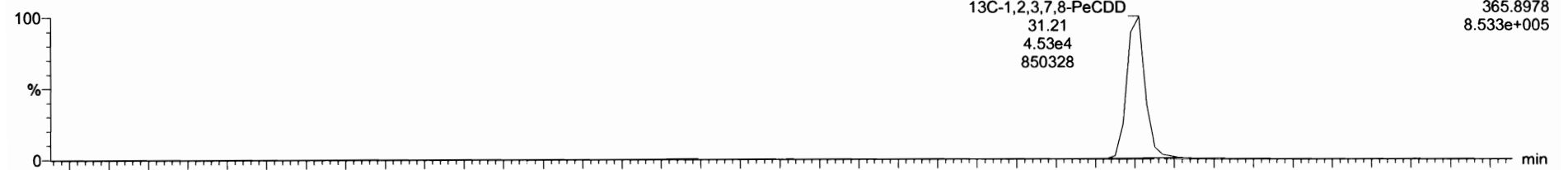


210408D1\_2

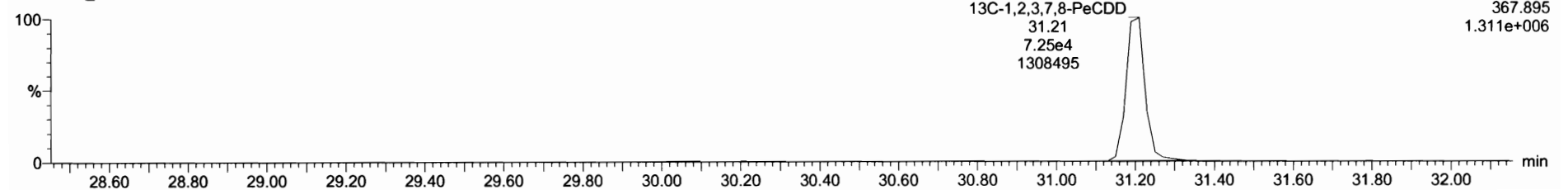


**13C-1,2,3,7,8-PeCDD**

210408D1\_2

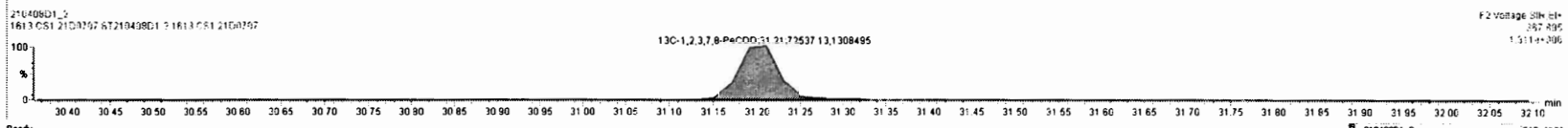
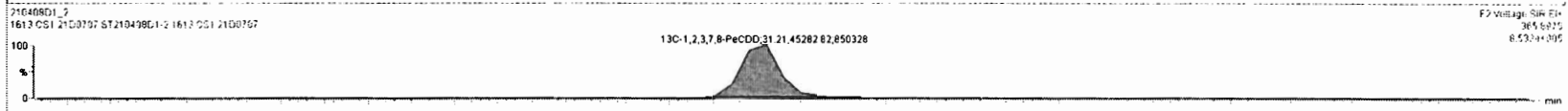
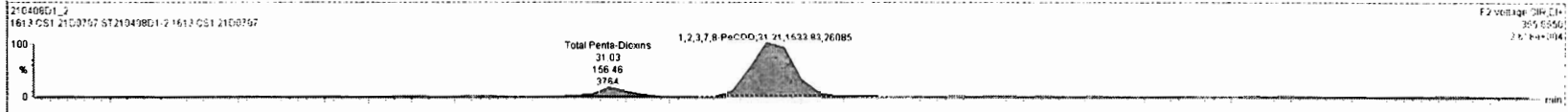
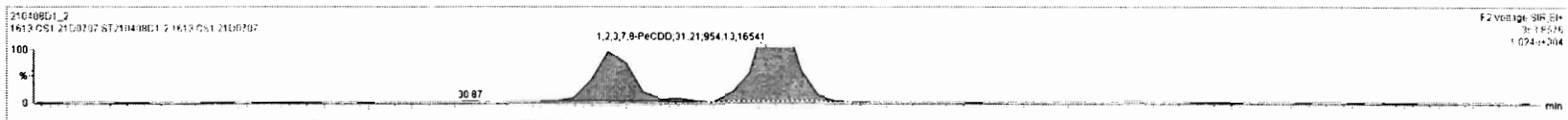


210408D1\_2



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
37 13C-1,2,3,4-TCDF	2.20e5	0.77	NO	1.00	1.000	25.18	1.000	100	100	0.221	
38 13C-1,2,3,4,6,9-HxCDF	1.41e5	0.50	NO	1.00	1.000	34.14	1.000	100	100	0.396	
39 Total Tetra-Dioxins				1.05	1.000			0.496	0.0519	0.496	
40 Total Penta-Dioxins				0.88	1.000			2.40	0.0555	2.87	
41 Total Hexa-Dioxins				1.01	1.000			7.18	0.147	7.18	
42 Total Hepta-Dioxins				1.07	1.000			2.36	0.109	2.36	
43 Total Tetra-Furans				0.86	1.000			0.499	0.0261	0.499	

Name	RT	wt Resp	n2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,7,8-PeCDD	31.21	9.541e2	1.524e2	0.62	NO	2.2960	2.2961
2 Total Penta-Dioxins	31.03	5.018e2	1.565e2	3.21	YES	0.24600	0.00000
3 Total Penta-Dioxins	30.08	4.980e2	1.427e2	3.49	YES	0.22400	0.00000



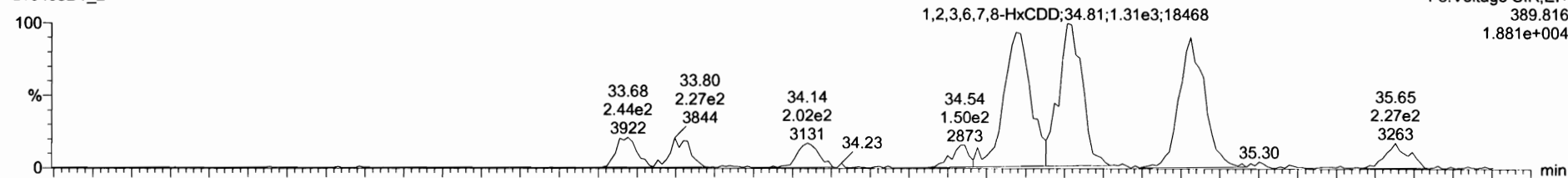
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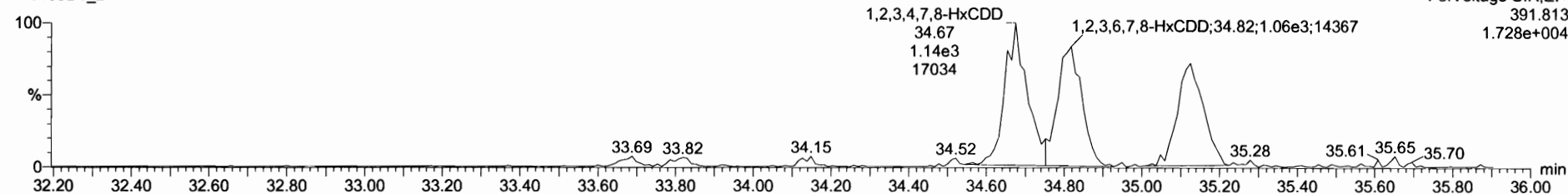
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**1,2,3,4,7,8-HxCDD**

210408D1\_2

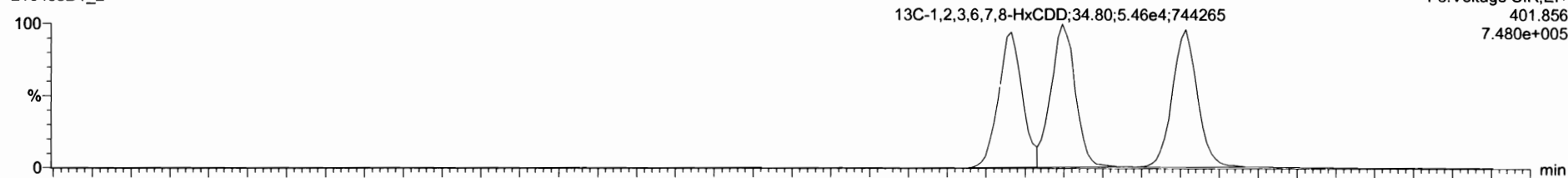


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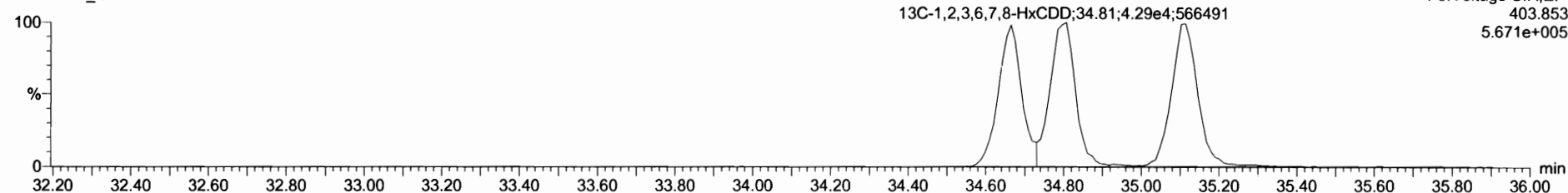


**13C-1,2,3,4,7,8-HxCDD**

210408D1\_2



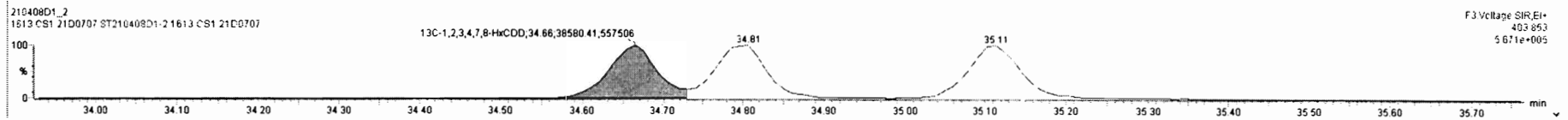
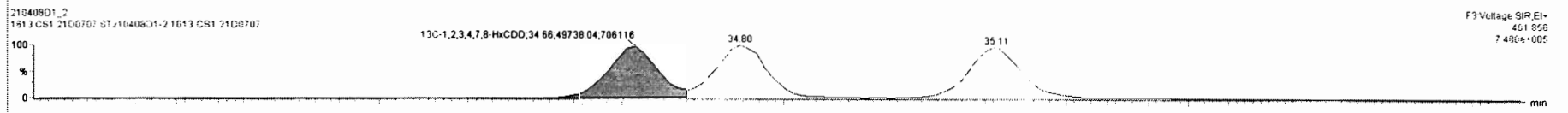
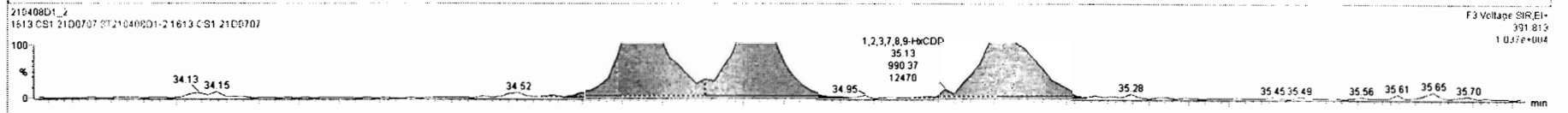
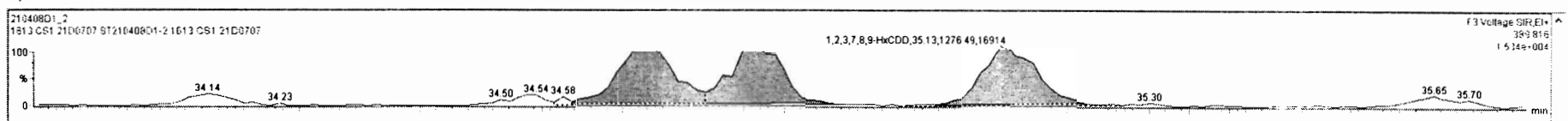
210408D1\_2



210408D1\_2 - ST210408D1-2 1613 CS1 21D0707 - 1613 CS1 21D0707

Name	Resp	RA	nly	RRF	wAvd	RT	RRT	Conc	%Rec	DL	EMPC
37 13C-1,2,3,4-TCDF	2.20e5	0.77	NO	1.00	1.000	25.18	1.000	100	100	0.221	
38 13C-1,2,3,4,6,8-HxCDF	1.41e5	0.50	NO	1.00	1.000	34.14	1.000	100	100	0.396	
39 Total Tetra-Dioxins				1.05	1.000			0.496		0.0519	0.496
40 Total Penta-Dioxins				0.88	1.000			2.40		0.0555	2.87
41 Total Hexa-Dioxins				1.01	1.000			7.18		0.147	7.18
42 Total Hepta-Dioxins				1.07	1.000			2.36		0.109	2.36
43 Total Tetra-Furans				0.96	1.000			0.499		0.0261	0.499

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,7,8,9-HxCDD	35.13	1.276e3	9.904e2	1.29	NO	2.2720	2.2724
2 1,2,3,6,7,8-HxCDD	34.81	1.309e3	1.055e3	1.24	NO	2.4000	2.3996
3 1,2,3,4,7,8-HxCDD	34.67	1.384e3	1.148e3	1.21	NO	2.5090	2.5088



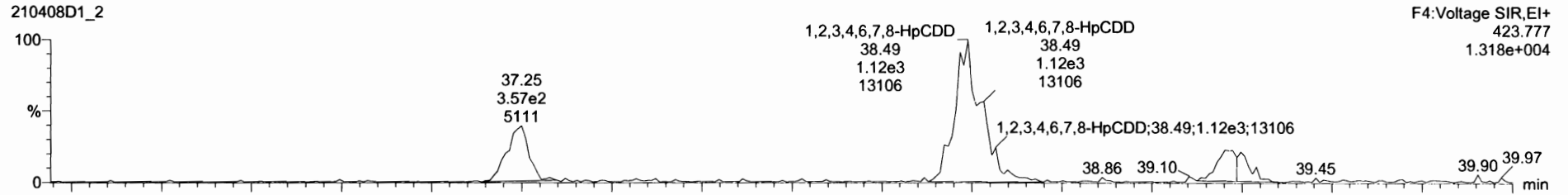
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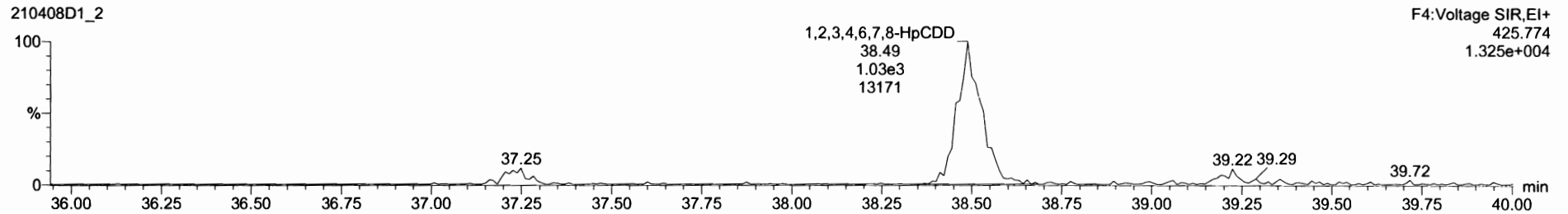
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**1,2,3,4,6,7,8-HpCDD**

210408D1\_2

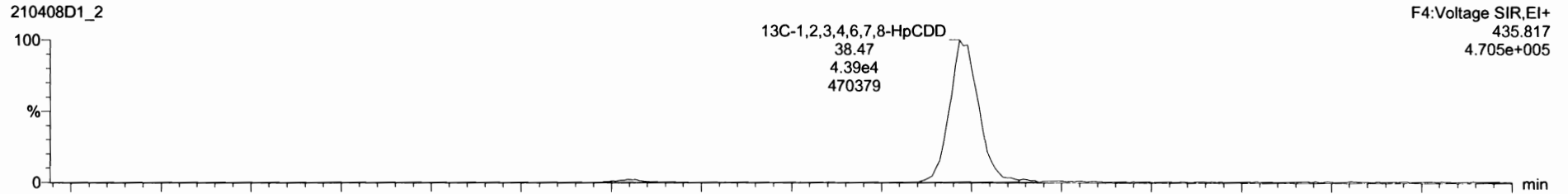


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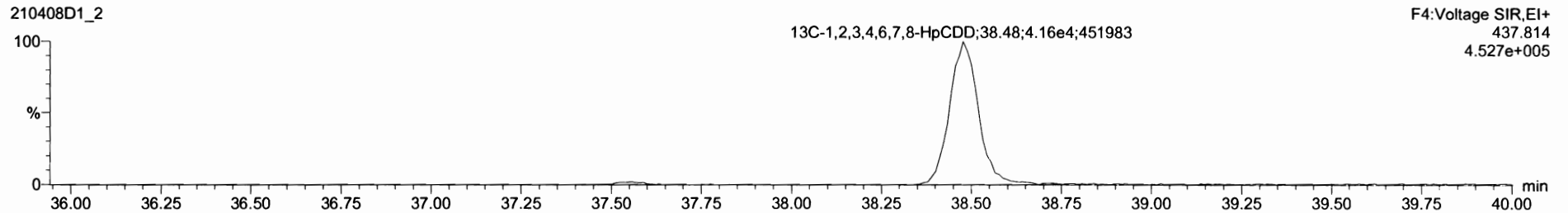


**13C-1,2,3,4,6,7,8-HpCDD**

210408D1\_2



210408D1\_2

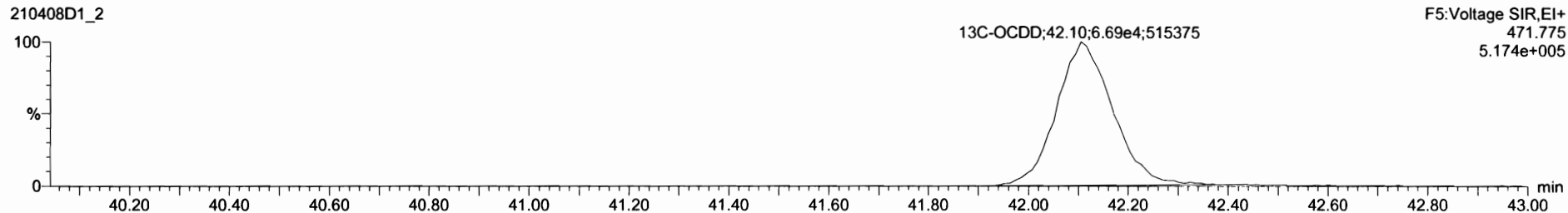
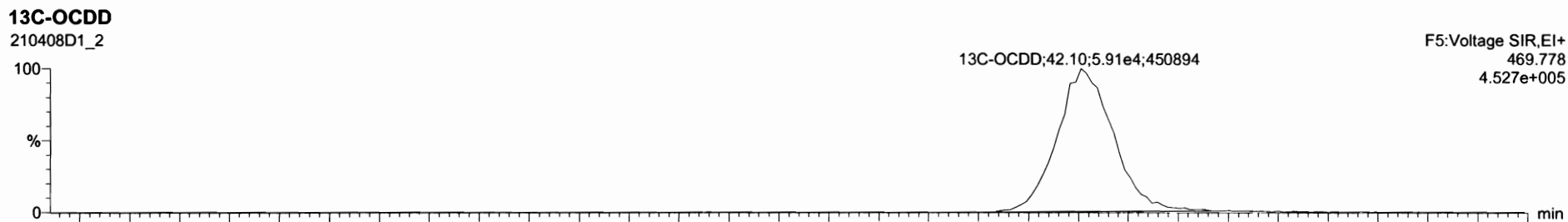
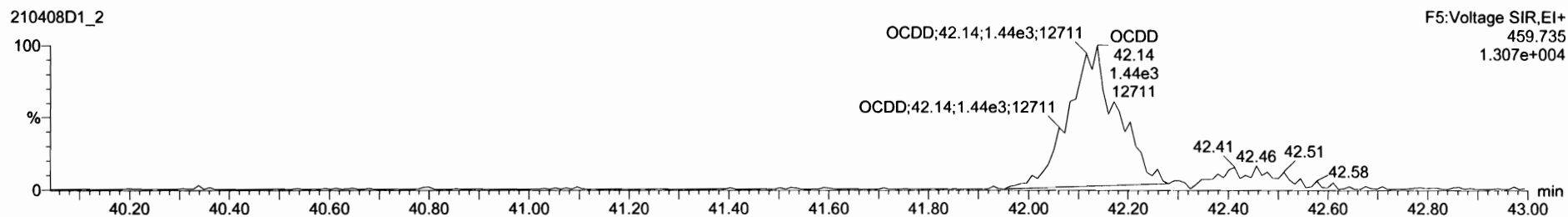
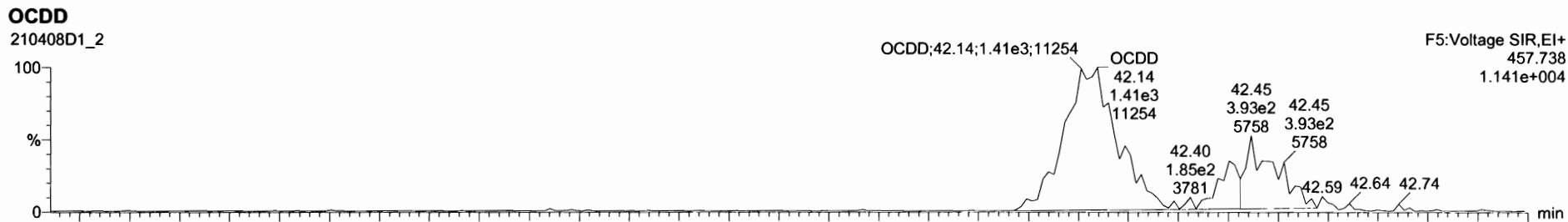


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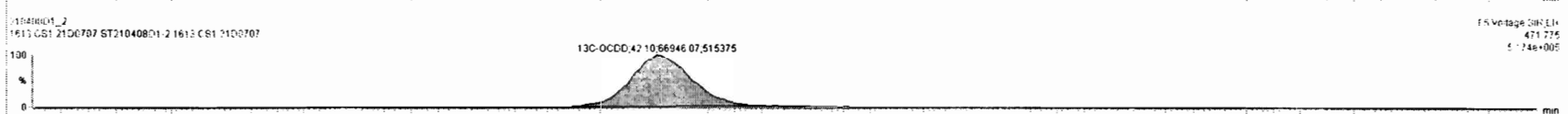
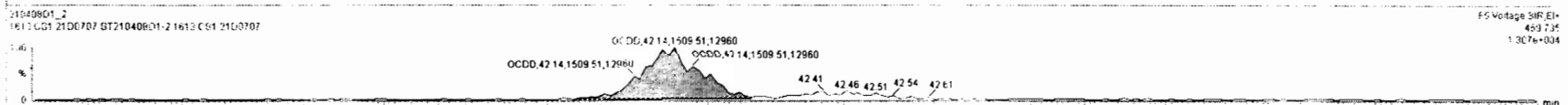
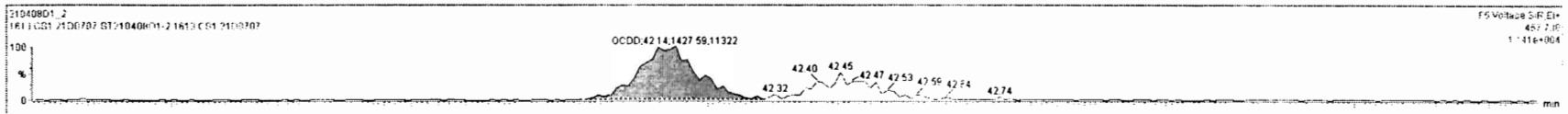
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210408D1\_2 - ST210408D1-2 1613.CS1 2100707 - 1613.CS1 2100707

Name	Resp	RA	n/y	R/F	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
2,3,7,8-TCDD	7.83e2	0.78	NO	1.05	1.000	27.06	1.001	0.496	99.2	0.0519	0.496
1,2,3,7,8-PeCDD	2.49e3	0.62	NO	0.88	1.000	31.21	1.000	2.40	95.6	0.0555	2.40
1,2,3,4,7,8-HxCDD	2.53e3	1.21	NO	1.14	1.000	34.67	1.000	2.51	100	0.135	2.51
1,2,3,6,7,8-HxCDD	2.36e3	1.24	NO	1.01	1.000	34.81	1.000	2.40	96.0	0.144	2.40
1,2,3,7,8,9-HxCDD	2.27e3	1.29	NO	1.02	1.000	35.13	1.000	2.27	90.9	0.145	2.27
1,2,3,4,6,7,8-HxCDD	2.15e3	1.09	NO	1.07	1.000	36.49	1.001	2.36	94.3	0.100	2.36
OCDD	2.84e3	0.96	NO	1.00	1.000	42.14	1.001	4.65	83.0	0.002	4.65

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





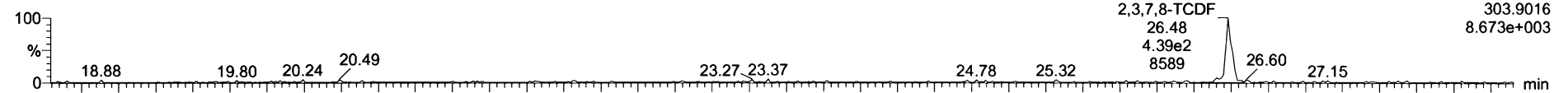
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

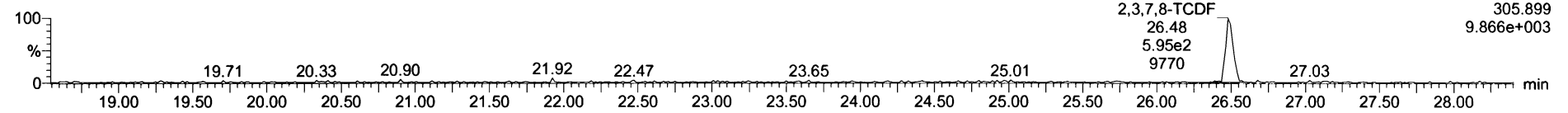
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**2,3,7,8-TCDF**

210408D1\_2

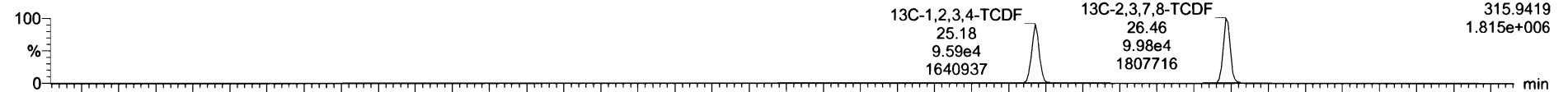


210408D1\_2

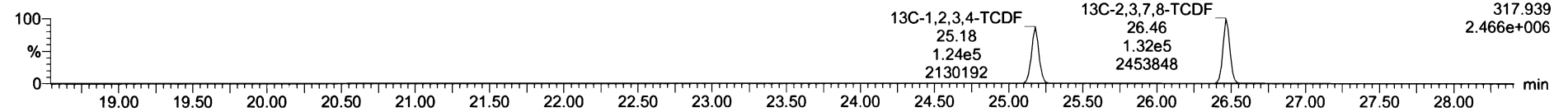


**13C-2,3,7,8-TCDF**

210408D1\_2

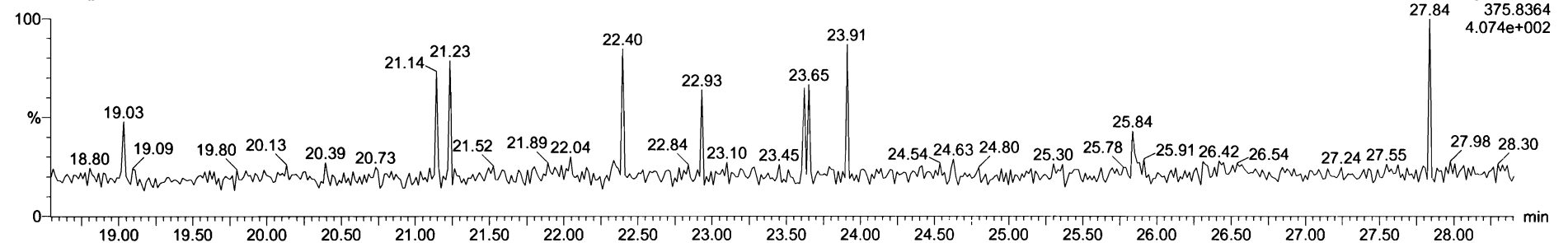


210408D1\_2



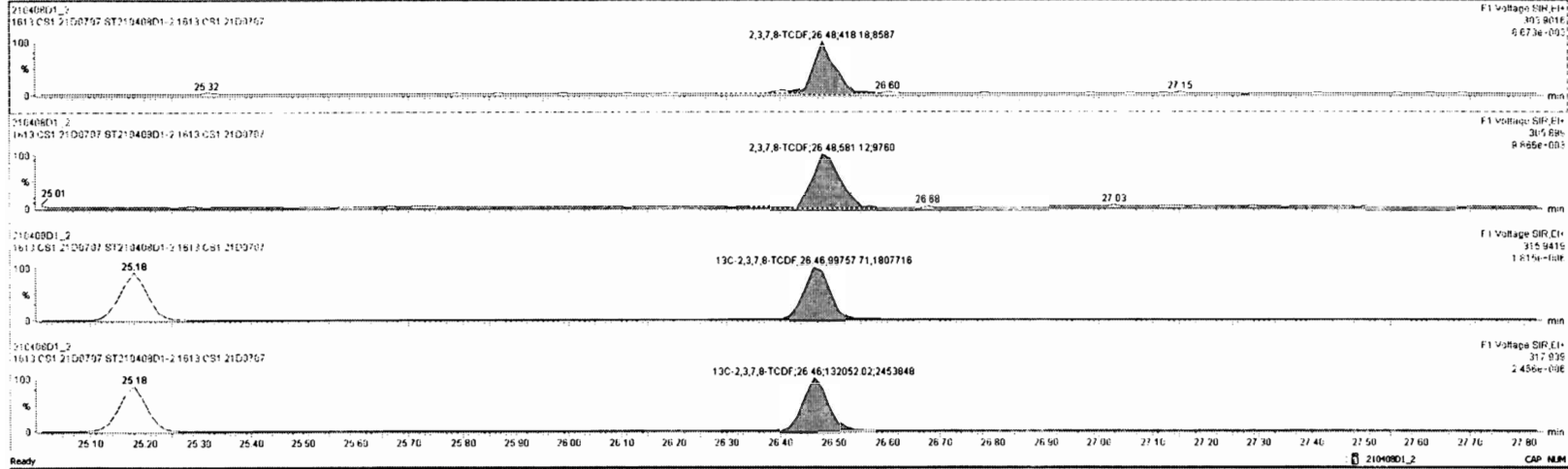
**DPE1**

210408D1\_2



Name	Resp	RA	nly	RRF	wInd	RT	RRT	Conc	%Rec	DL	EMPC
37 13C-1,2,3,4-TCDF	2.20e5	0.77	NO	1.00	1.000	25.18	1.000	100	100	0.221	
38 13C-1,2,3,4,6,9,10-TCDF	1.41e5	0.50	NO	1.00	1.000	34.14	1.000	100	100	0.396	
39 Total Tetra-Dioxins				1.05	1.000			0.496		0.0519	0.496
40 Total Penta-Dioxins				0.88	1.000			2.40		0.0555	2.87
41 Total Hexa-Dioxins				1.01	1.000			7.18		0.147	7.18
42 Total Hepta-Dioxins				1.07	1.000			2.36		0.109	2.36
43 Total Tetra-Furans				0.86	1.000			0.499		0.0261	0.499

Name	RT	int Resp	id Resp	RA	nly	EMPC	Conc
1 2,3,7,8-TCDF	26.48	4.162e2	5.811e2	0.72	NO	0.49900	0.49912



Dataset: Untitled

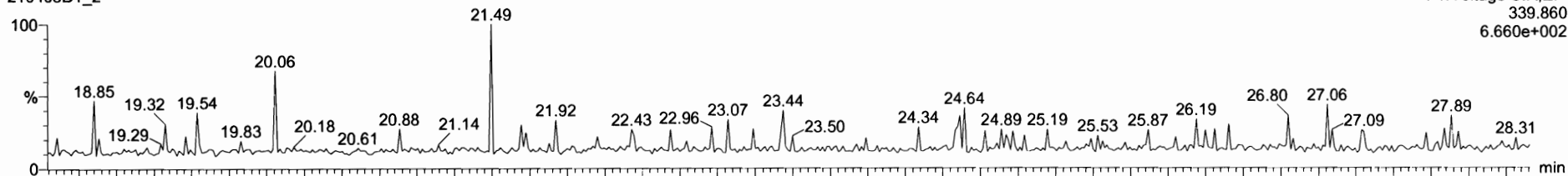
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1\_2, Date: 08-Apr-2021, Time: 09:21:02, ID: ST210408D1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707

1st Func. Penta-Furans

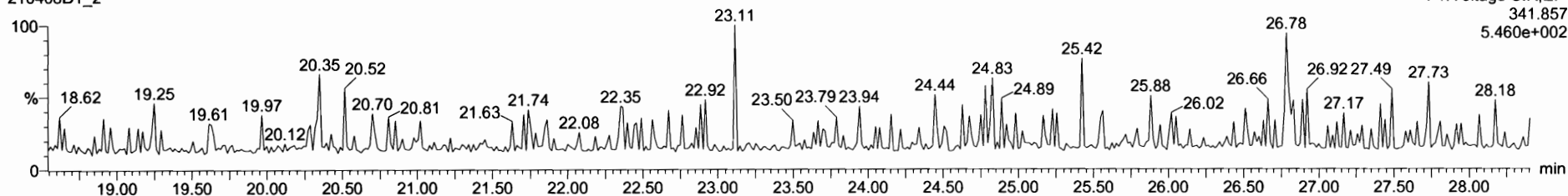
210408D1\_2

F1:Voltage SIR,EI+  
339.860  
6.660e+002



210408D1\_2

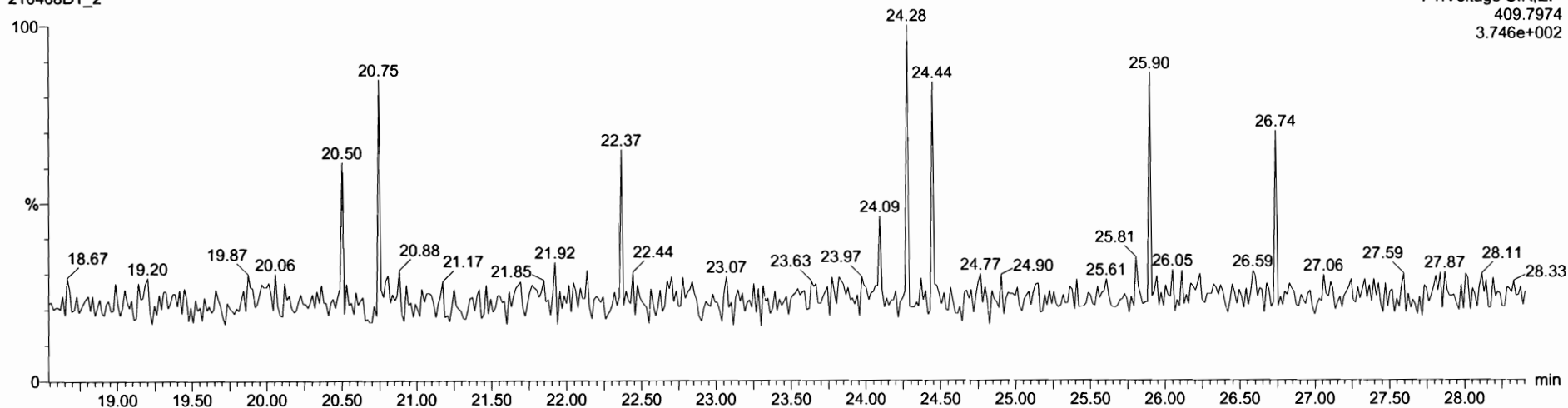
F1:Voltage SIR,EI+  
341.857  
5.460e+002



DPE6

210408D1\_2

F1:Voltage SIR,EI+  
409.7974  
3.746e+002



Dataset: Untitled

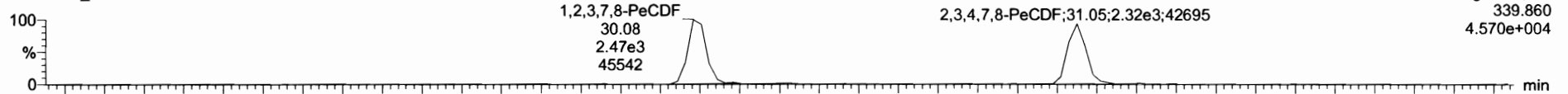
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

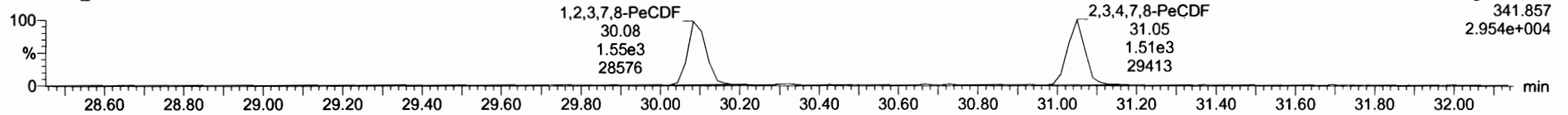
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**1,2,3,7,8-PeCDF**

210408D1\_2

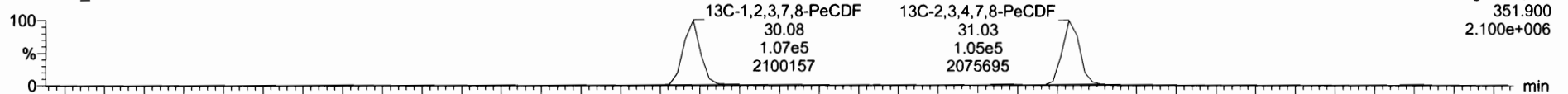


210408D1\_2

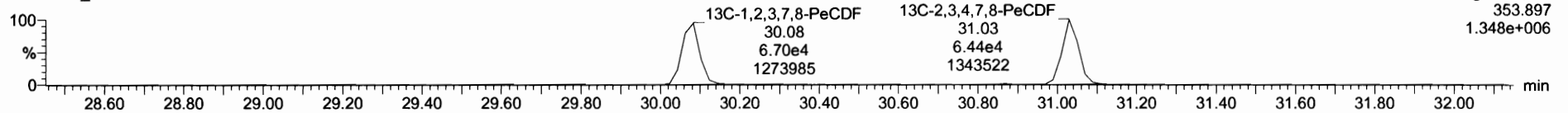


**13C-1,2,3,7,8-PeCDF**

210408D1\_2

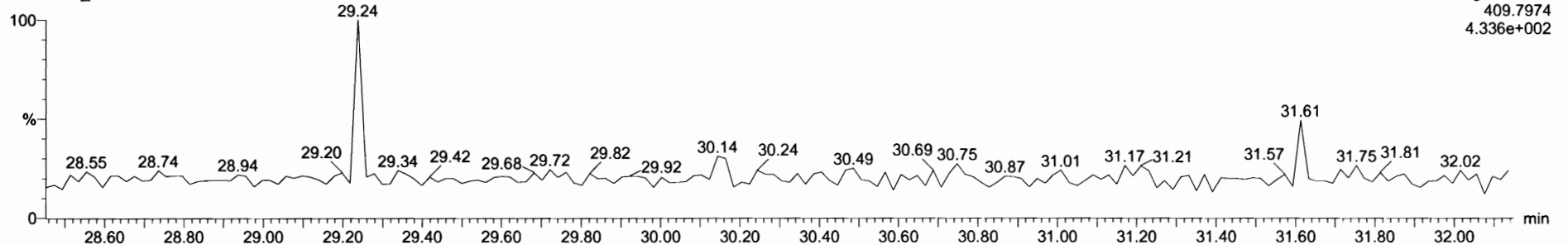


210408D1\_2



**DPE2**

210408D1\_2



Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

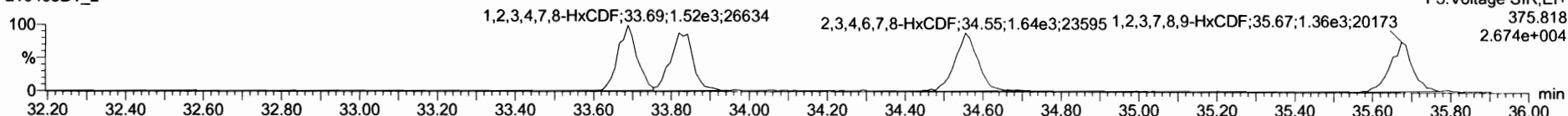
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**1,2,3,4,7,8-HxCDF**

210408D1\_2

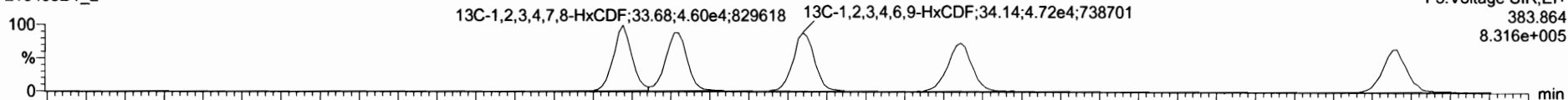


210408D1\_2

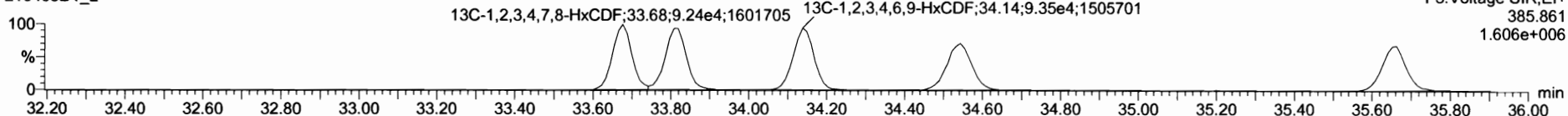


**13C-1,2,3,4,7,8-HxCDF**

210408D1\_2

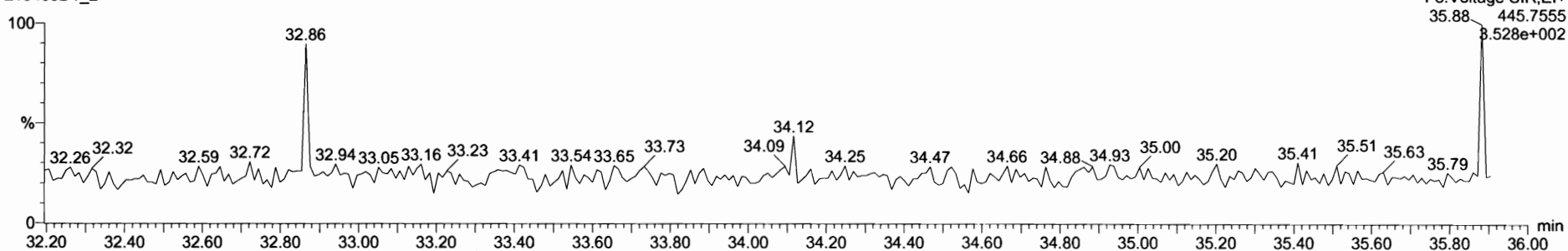


210408D1\_2



**DPE3**

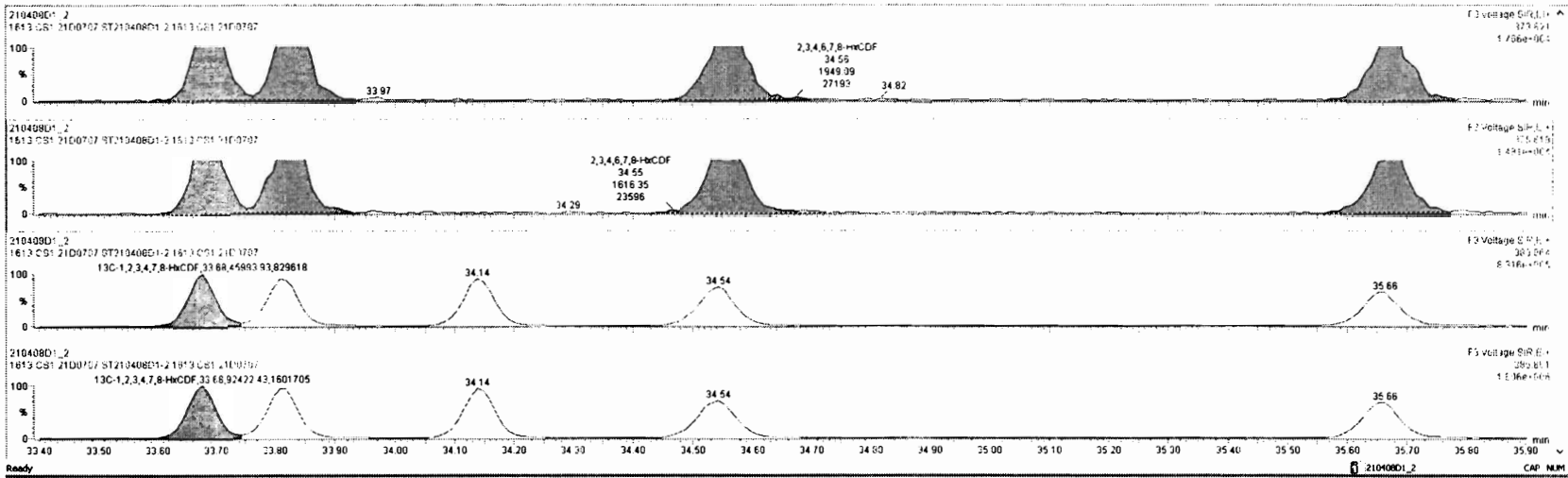
210408D1\_2



21040BD1\_2 - ST21340BD1-2 1613 CS1 2100707 - 1613 CS1 2100707

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.95	1.000			4.61		0.0475	4.61
46 Total Hexa-Furans				1.12	1.000			9.63		0.0997	9.63
47 Total Hepta-Furans				1.16	1.000			4.71		0.117	4.71
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,7,8-HxCDF	35.69	1.753e3	1.353e3	1.26	NO	2.3750	2.3751
2 2,3,4,6,7,8-HxCDF	34.56	1.949e3	1.615e3	1.21	NO	2.4770	2.4765
3 1,2,3,6,7,8-HxCDF	33.83	2.029e3	1.621e3	1.26	NO	2.3650	2.3650
4 1,2,3,4,7,8-HxCDF	33.69	1.953e3	1.527e3	1.28	NO	2.4100	2.4103

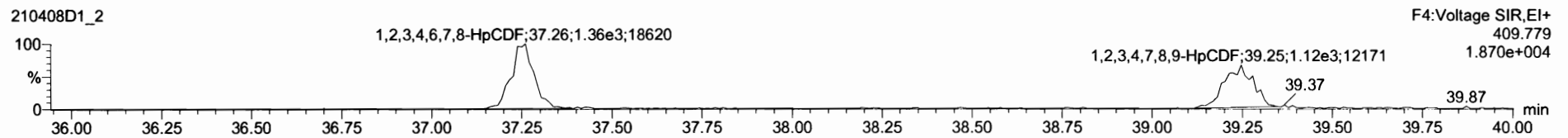
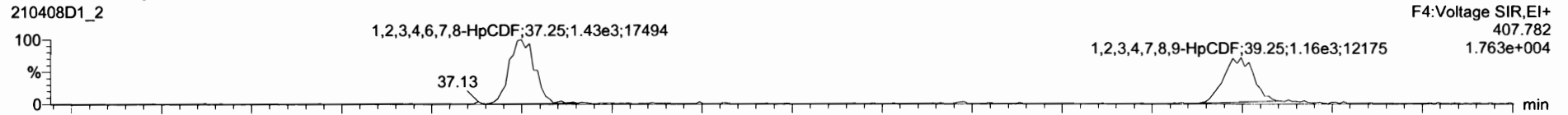


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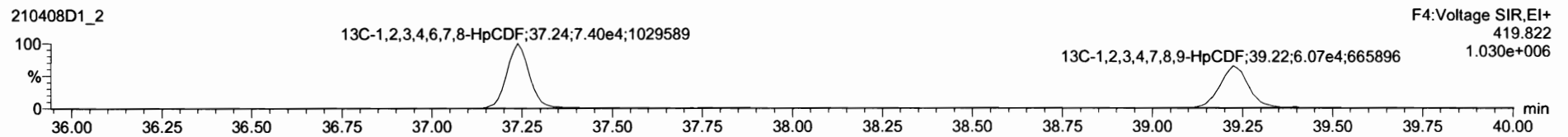
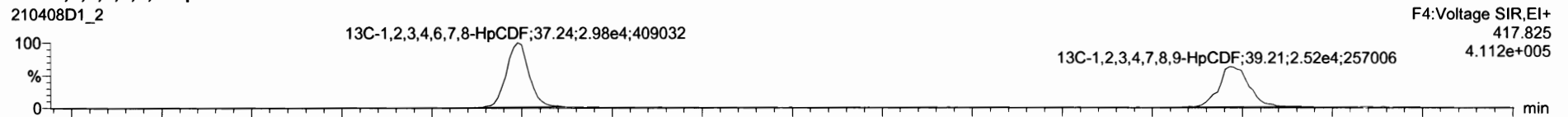
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

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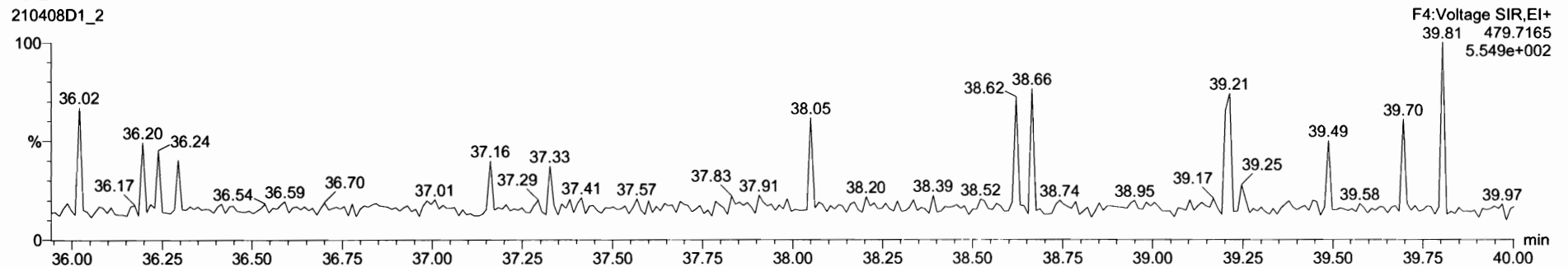
**1,2,3,4,6,7,8-HpCDF**



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

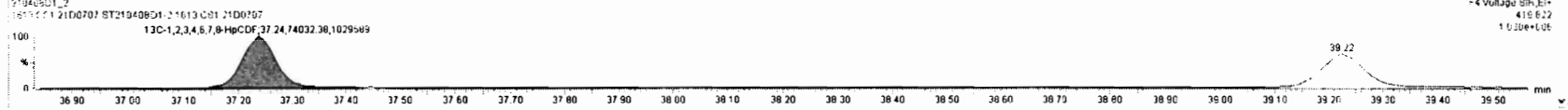
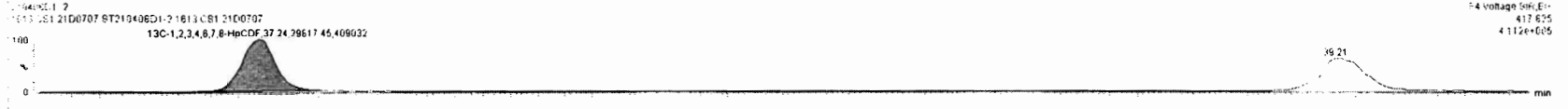
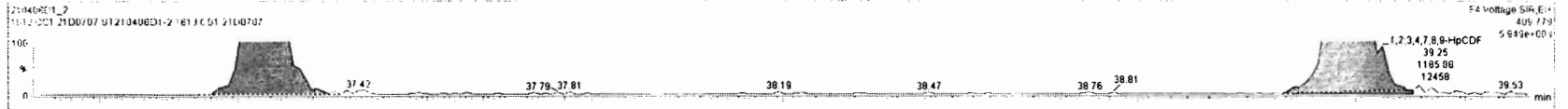
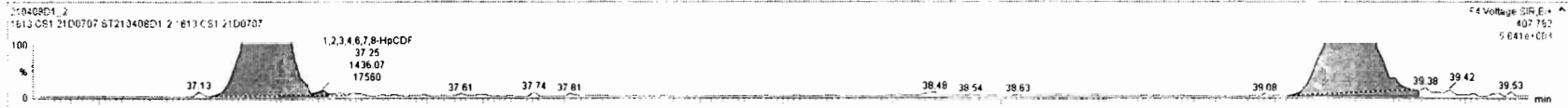


**DPE4**



Name	Resp	RA	nly	RRF	wt%ol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.95	1.000			4.61	0.0475		4.61
46 Total Hexa-Furans				1.12	1.000			9.63	0.0997		9.63
47 Total Hepta-Furans				1.16	1.000			4.71	0.117		4.71
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,4,7,8,9-HpCDF	39.25	1.248e3	1.186e3	1.05	NO	2.3870	2.3870
2 1,2,3,4,6,7,8-HpCDF	37.25	1.436e3	1.360e3	1.06	NO	2.3210	2.3213

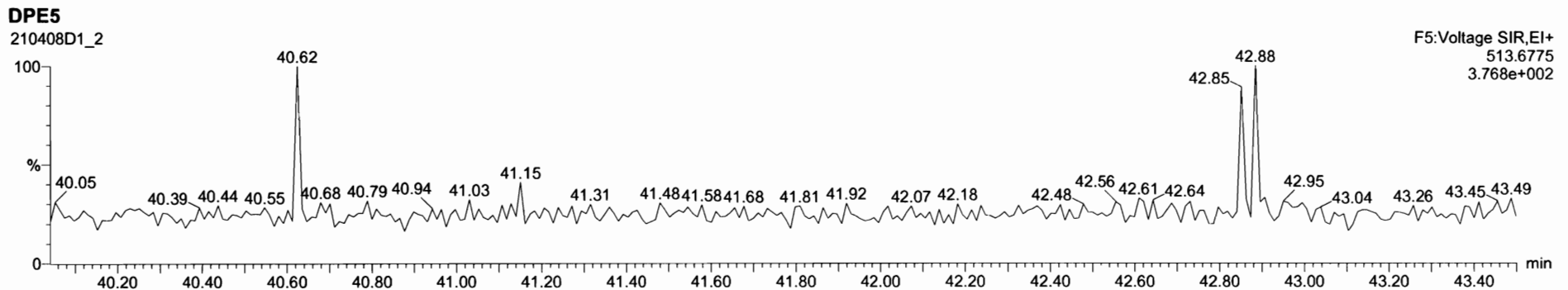
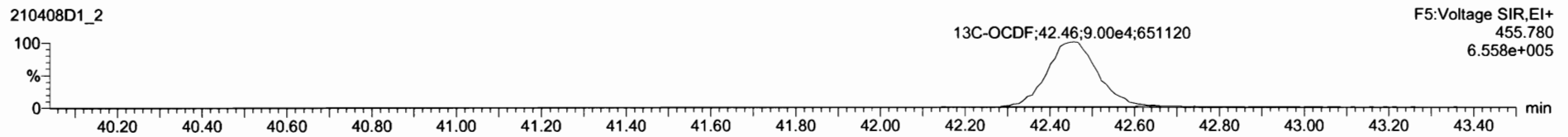
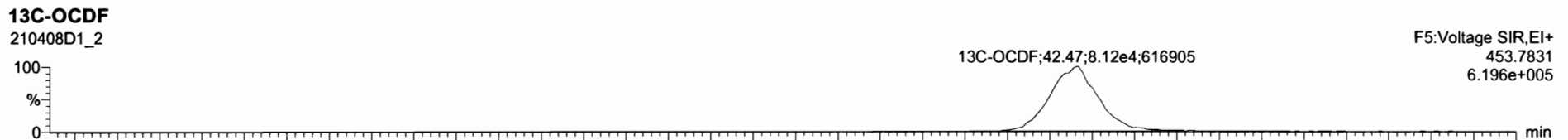
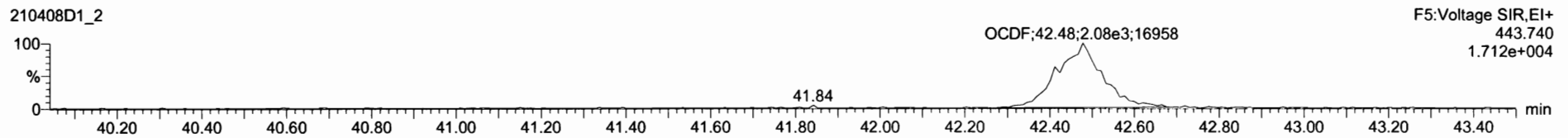
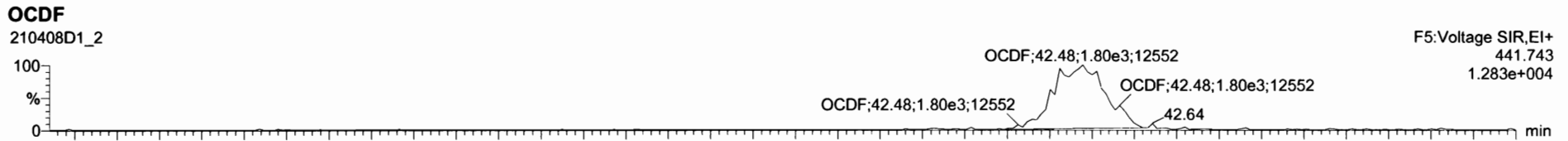




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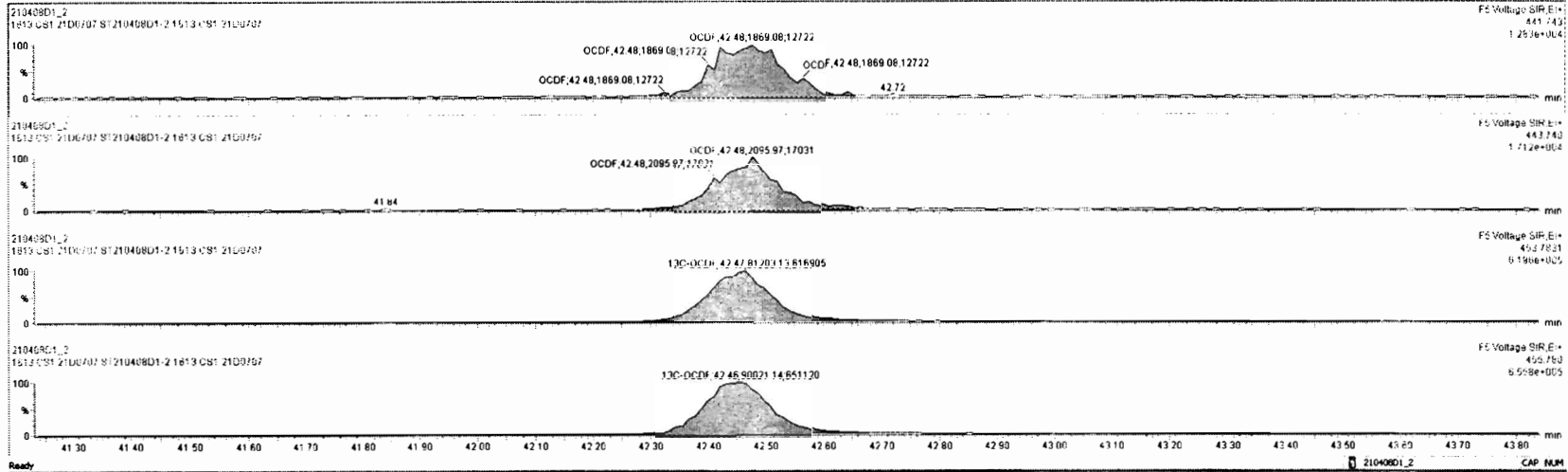
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1\_2, Date: 08-Apr-2021, Time: 09:21:02, ID: ST210408D1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707



Name	Resp	RA	nly	RRF	wAdj	RT	RRT	Conc	%Rec	DL	EMPC
17 OCDF	3.97e3	0.88	NO	0.91	1.000	42.48	1.000	5.10	102	0.345	5.10
18 13C-2,3,7,8-13CDO	1.51e5	0.83	NO	1.15	1.000	27.04	1.024	96.7	96.7	0.240	
19 13C-1,2,3,7,8-HeCDO	1.18e5	0.62	NO	0.89	1.000	31.21	1.182	97.8	97.8	0.222	
20 13C-1,2,3,7,8-HeCDO	8.83e4	1.29	NO	0.85	1.000	34.66	1.015	97.2	97.2	0.272	
21 13C-1,2,3,7,8-HeCDO	9.75e4	1.27	NO	0.72	1.000	34.80	1.019	96.7	96.7	0.245	
22 13C-1,2,3,7,8-HeCDO	9.79e4	1.23	NO	0.71	1.000	35.11	1.028	97.4	97.4	0.246	
23 13C-1,2,3,4,6,7,8-HeCDO	8.55e4	1.05	NO	0.58	1.000	39.47	1.127	104	104	0.620	

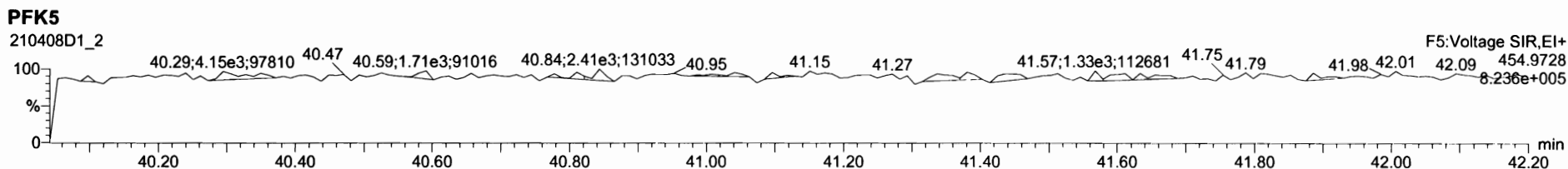
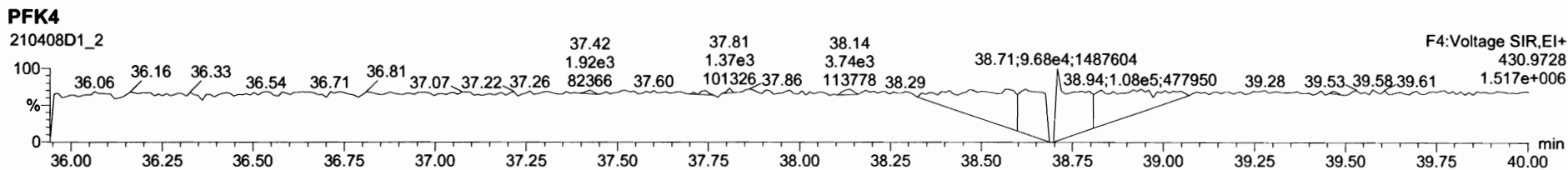
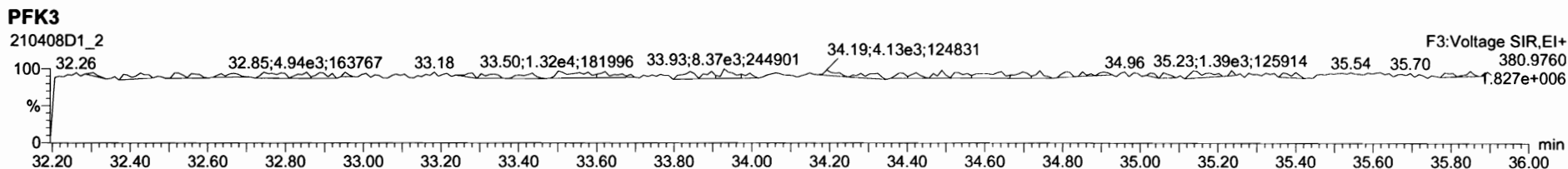
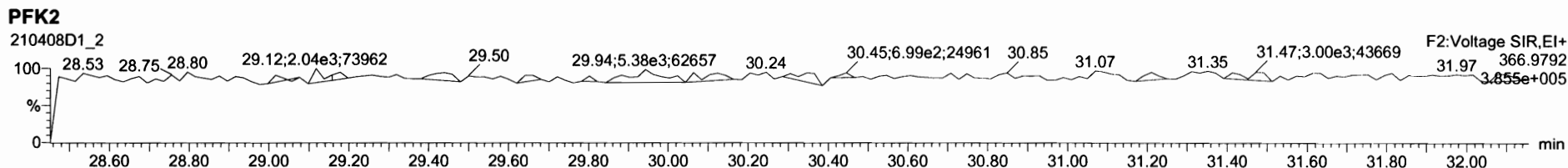
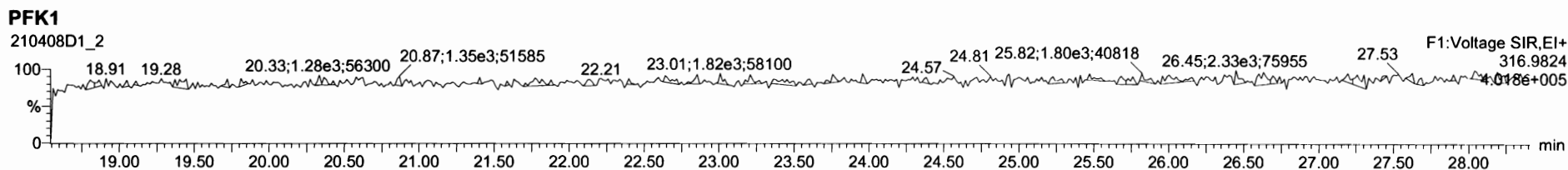
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1							



Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

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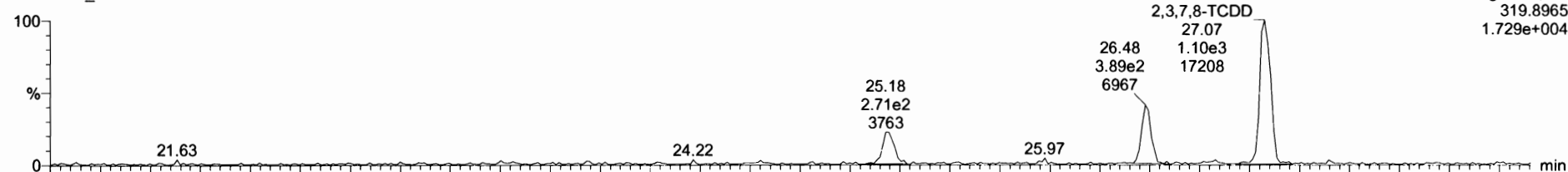
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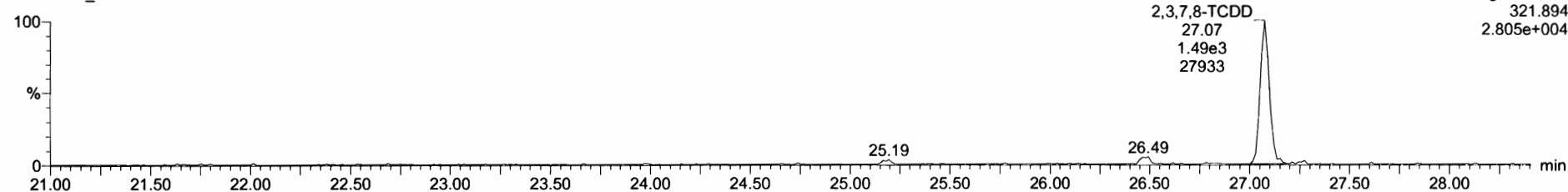
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2,3,7,8-TCDD

210408D1\_3

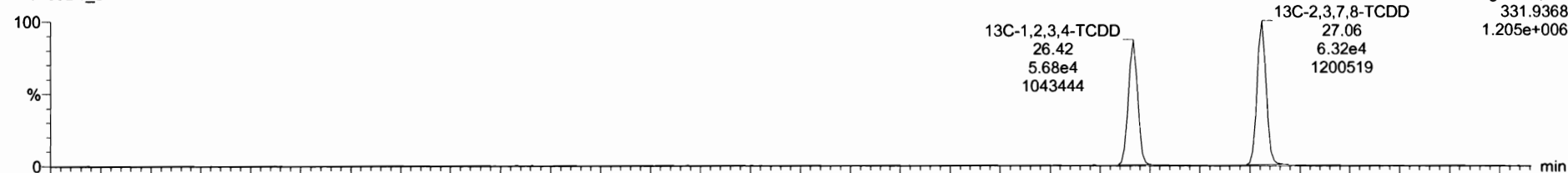


210408D1\_3

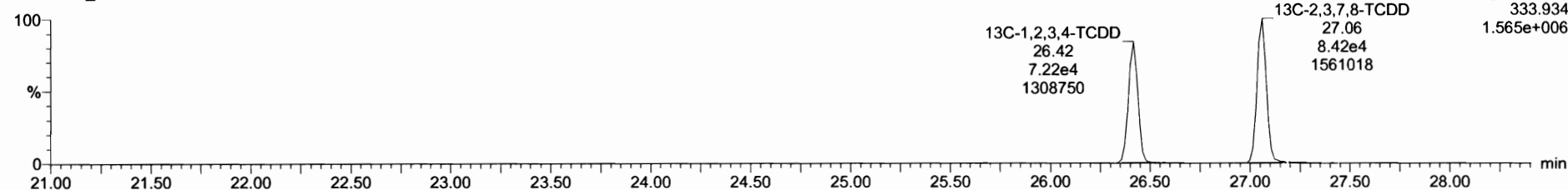


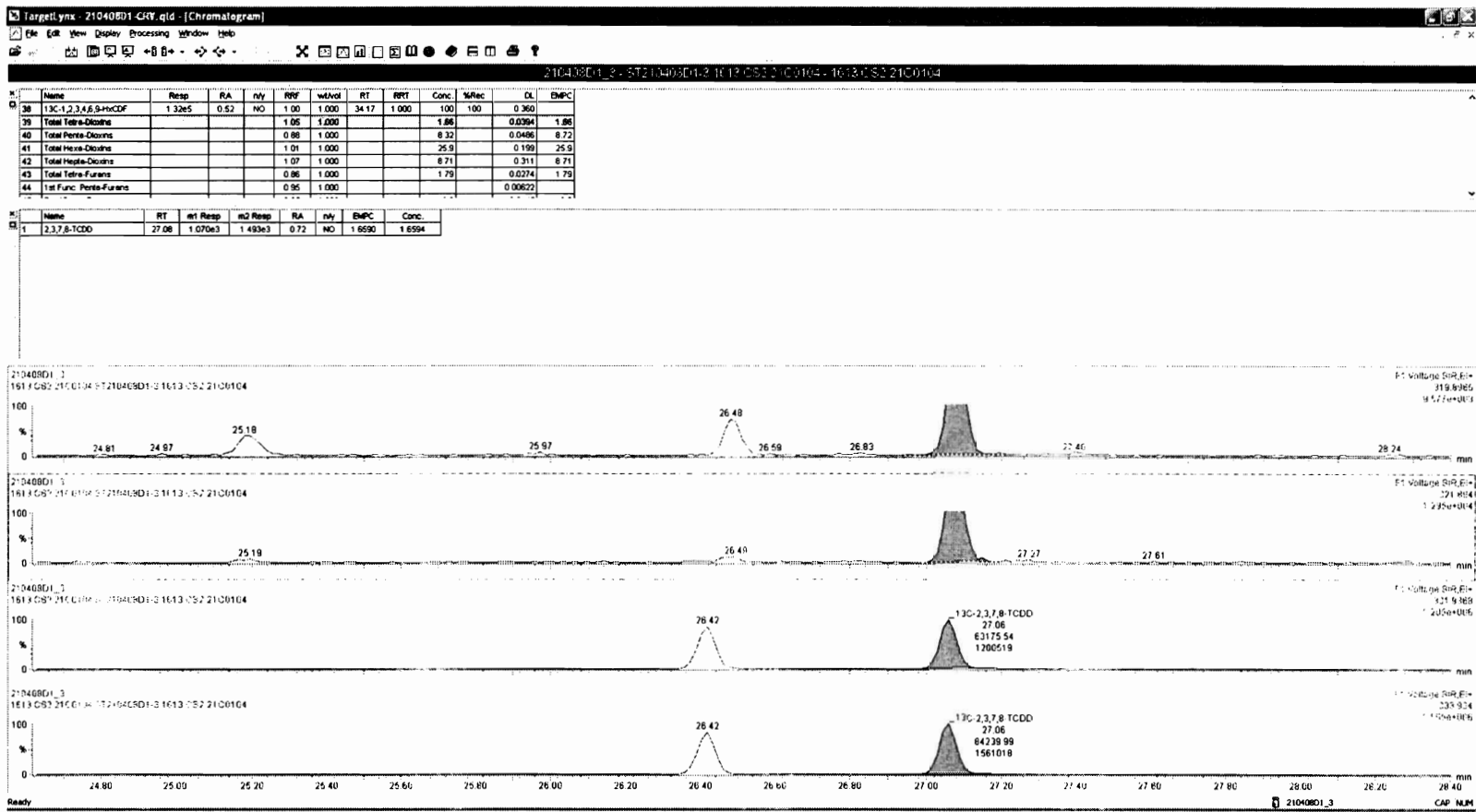
13C-2,3,7,8-TCDD

210408D1\_3



210408D1\_3





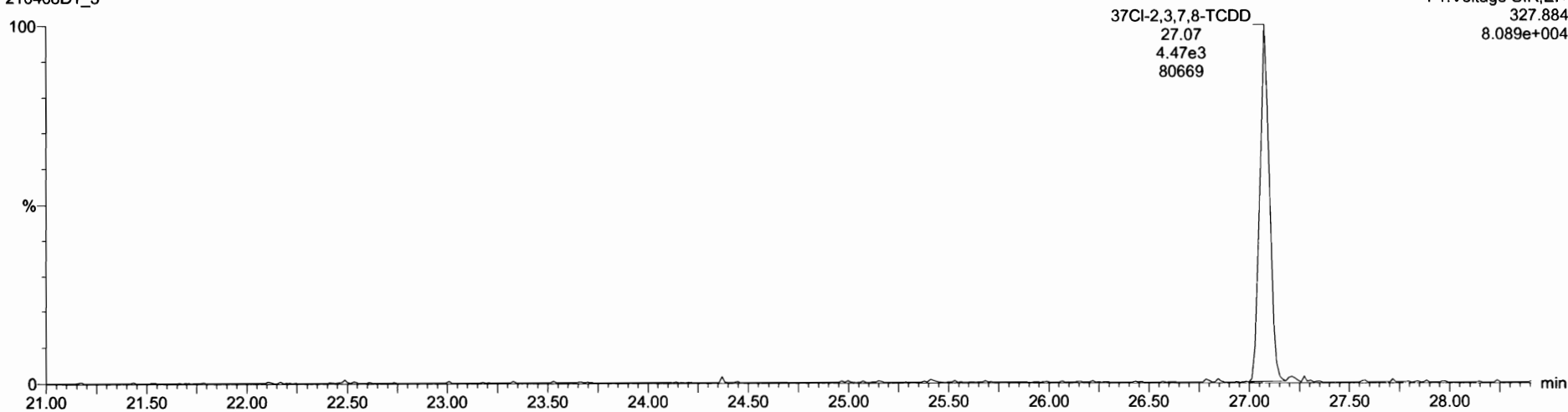
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

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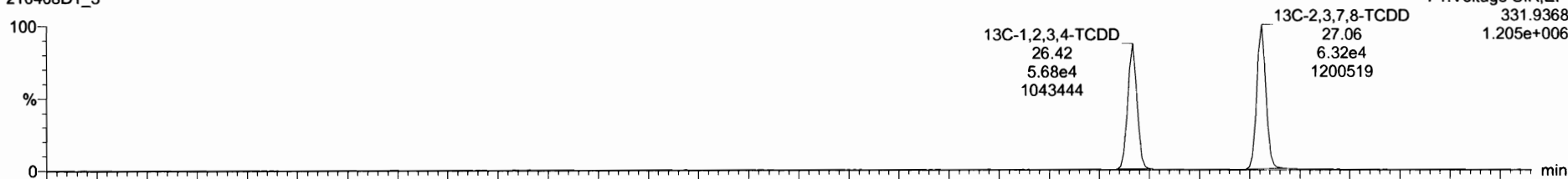
**37Cl-2,3,7,8-TCDD**

210408D1\_3

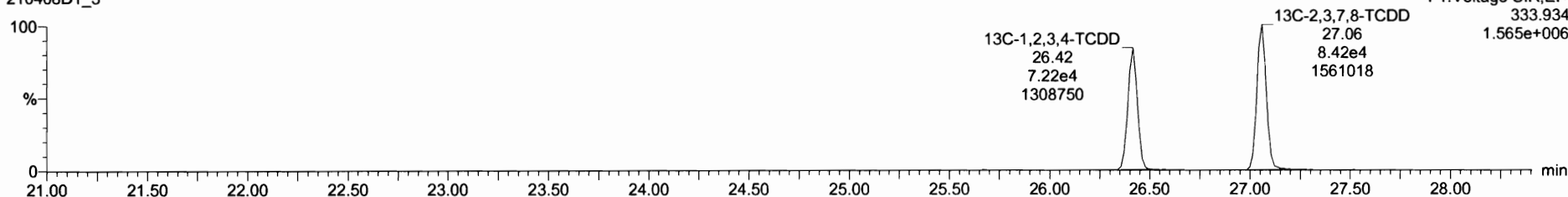


**13C-1,2,3,4-TCDD**

210408D1\_3



210408D1\_3



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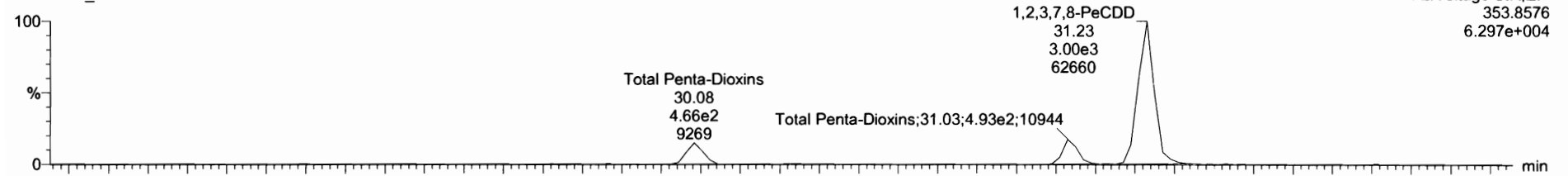
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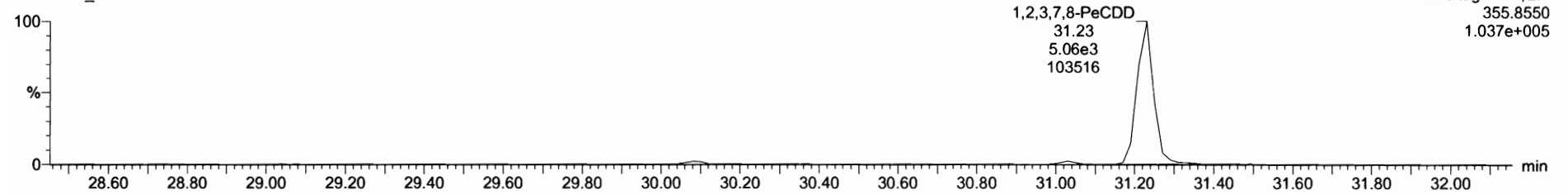
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**1,2,3,7,8-PeCDD**

210408D1\_3

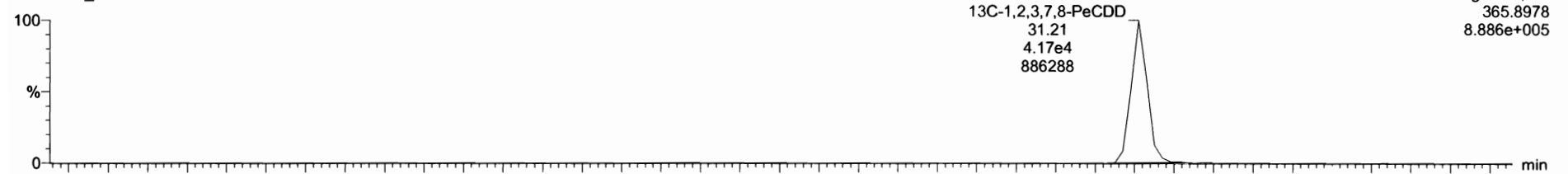


210408D1\_3

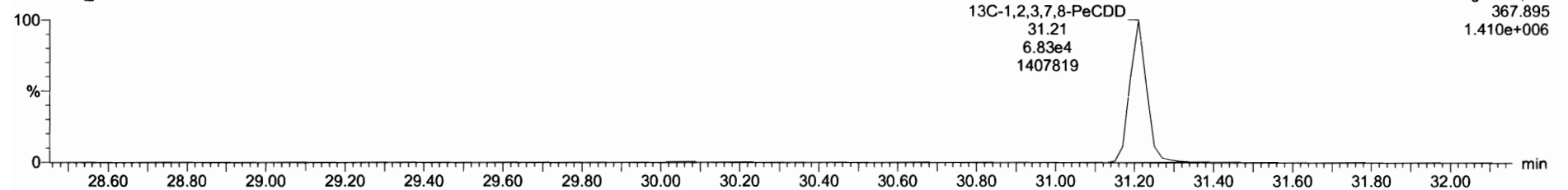


**13C-1,2,3,7,8-PeCDD**

210408D1\_3



210408D1\_3

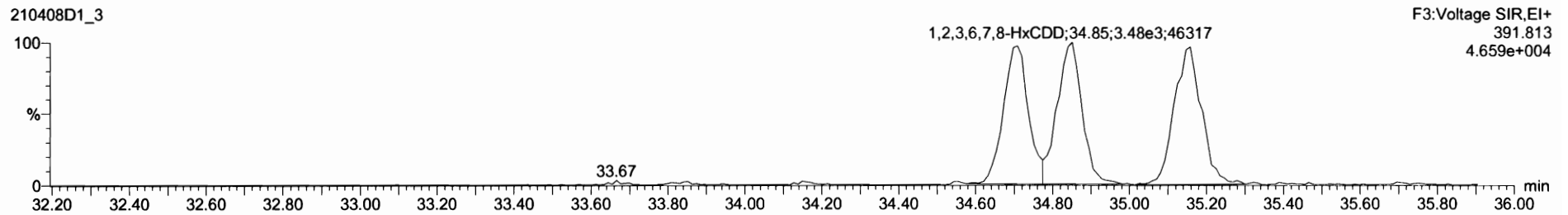
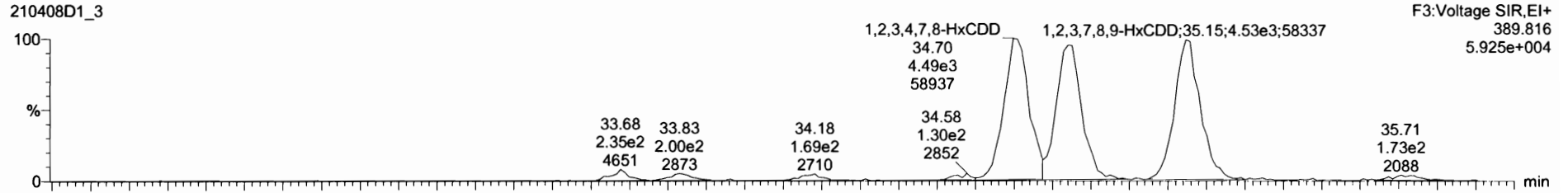


Dataset: Untitled

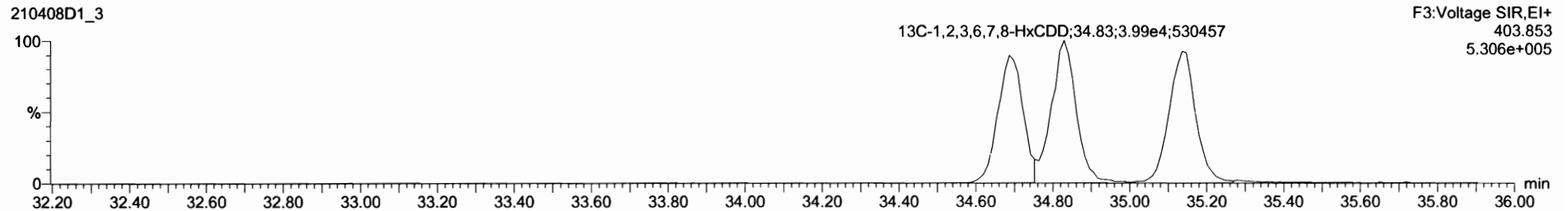
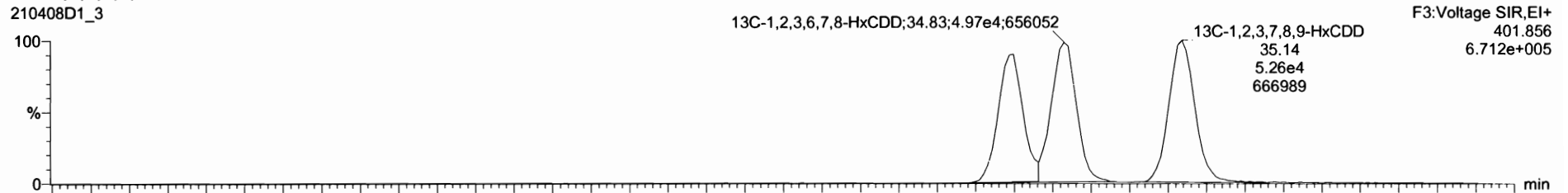
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1\_3, Date: 08-Apr-2021, Time: 10:06:35, ID: ST210408D1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104

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



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





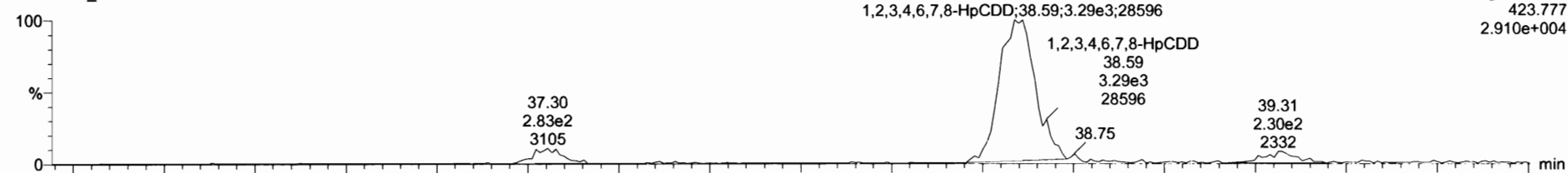
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

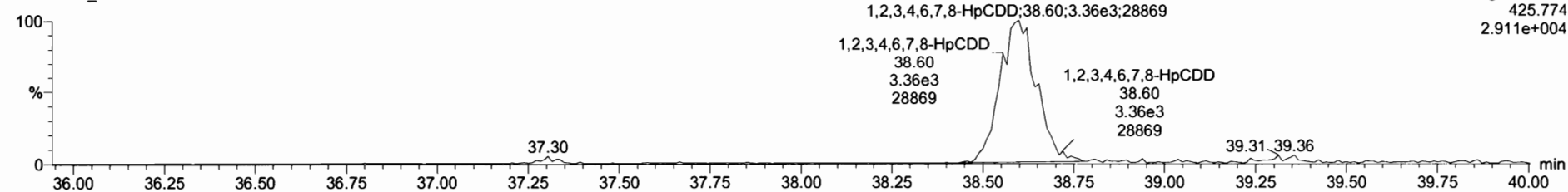
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**1,2,3,4,6,7,8-HpCDD**

210408D1\_3

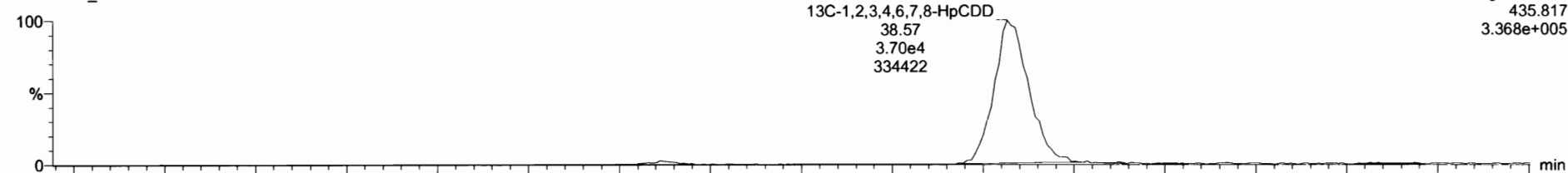


210408D1\_3

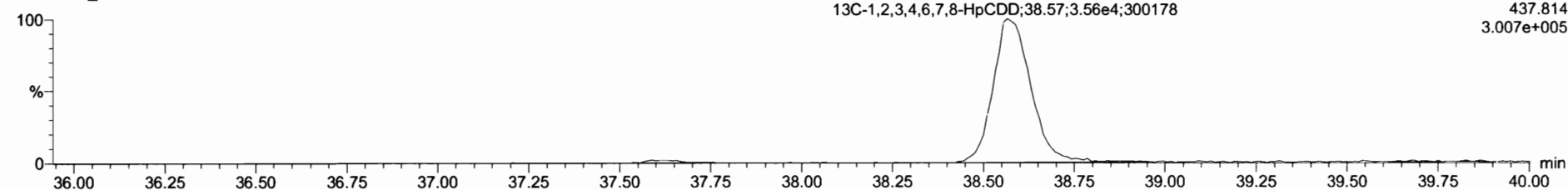


**13C-1,2,3,4,6,7,8-HpCDD**

210408D1\_3

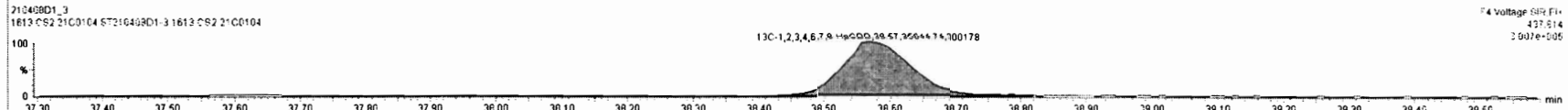
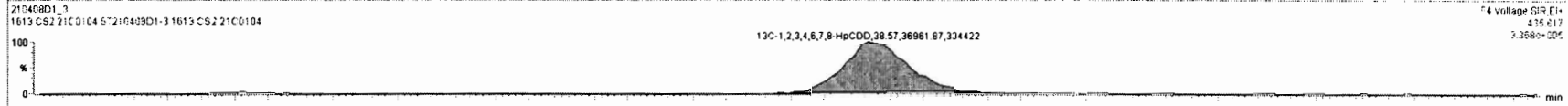
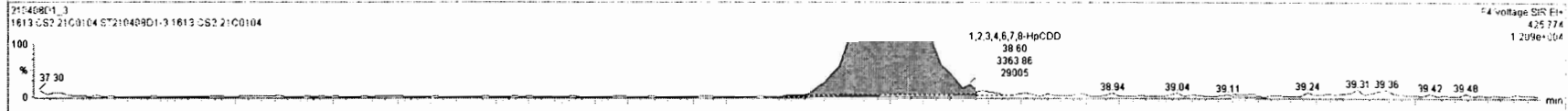
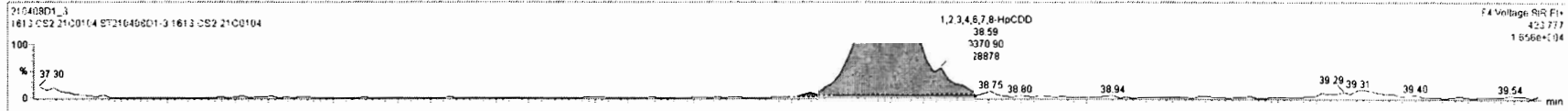


210408D1\_3



Name	Resp	RA	nly	RRF	wtAvl	RT	RRT	Conc	%Rec	DL	EMPC
36 13C-1,2,3,4,6,8-HxCDF	1.32e5	0.52	NO	1.00	1.000	34.17	1.000	100	100	0.360	
39 Total Tetra-Dioxins				1.05	1.000			1.66		0.0394	1.66
40 Total Penta-Dioxins				0.88	1.000			8.32		0.0486	8.72
41 Total Hexa-Dioxins				1.01	1.000			25.9		0.199	25.9
42 Total Hepta-Dioxins				1.07	1.000			8.71		0.311	8.71
43 Total Tetra-Furans				0.86	1.000			1.79		0.0274	1.79
44 1st Func. Penta-Furans				0.95	1.000					0.00822	

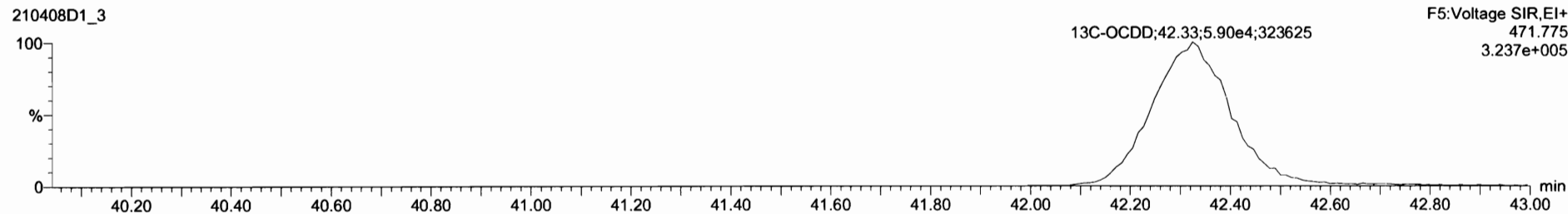
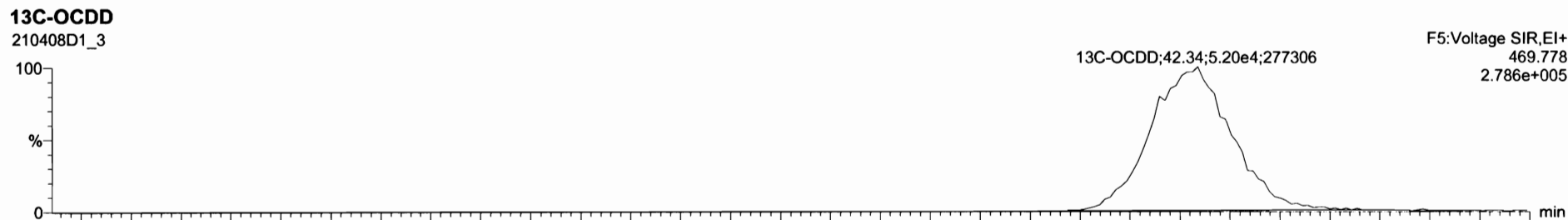
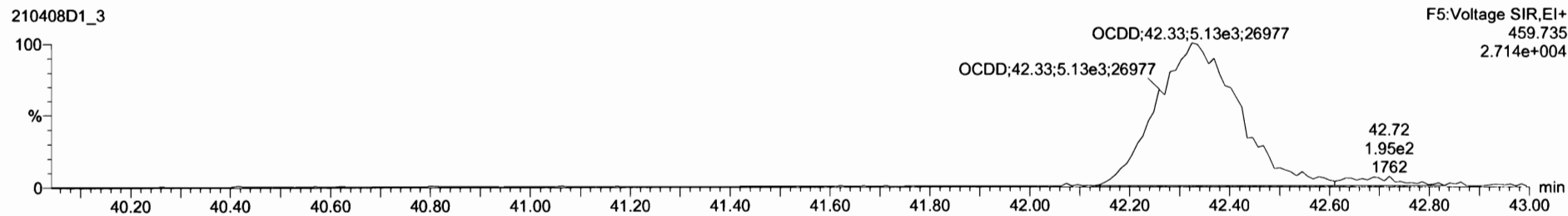
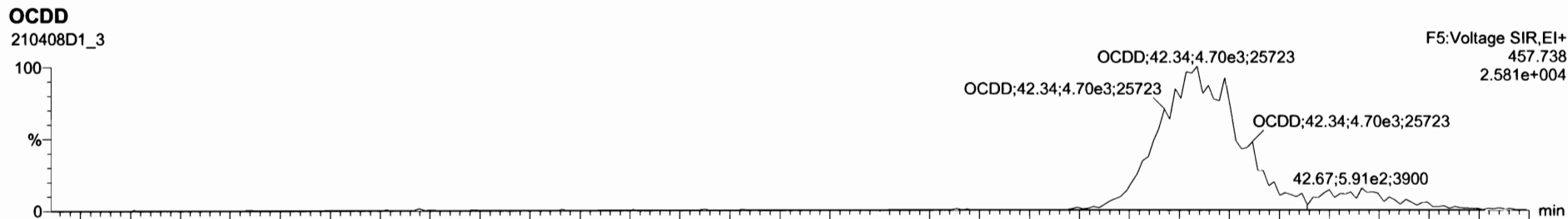
Name	RT	wf Resp	w2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDD	38.59	3.371e3	3.364e3	1.00	NO	8.7090	8.7094



Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
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Name: 210408D1\_3, Date: 08-Apr-2021, Time: 10:06:35, ID: ST210408D1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104



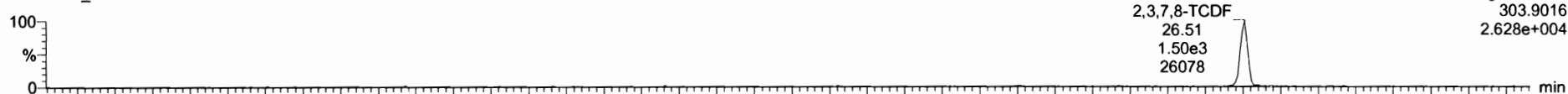
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

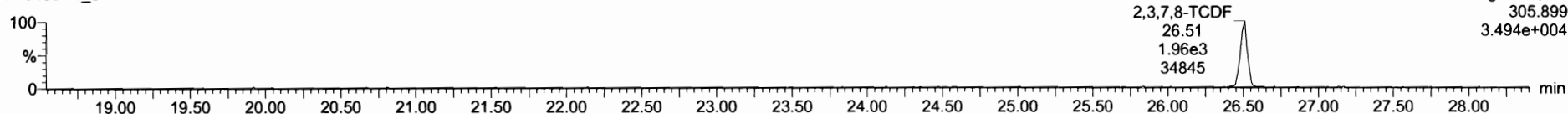
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**2,3,7,8-TCDF**

210408D1\_3



210408D1\_3

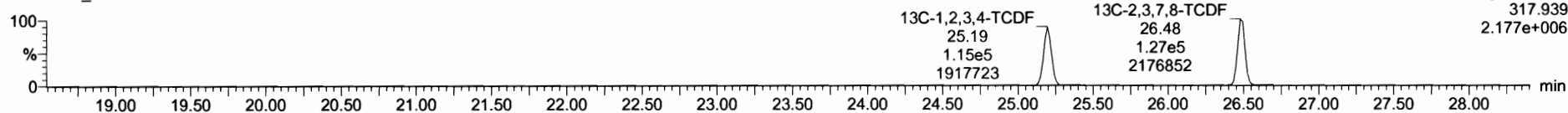


**13C-2,3,7,8-TCDF**

210408D1\_3

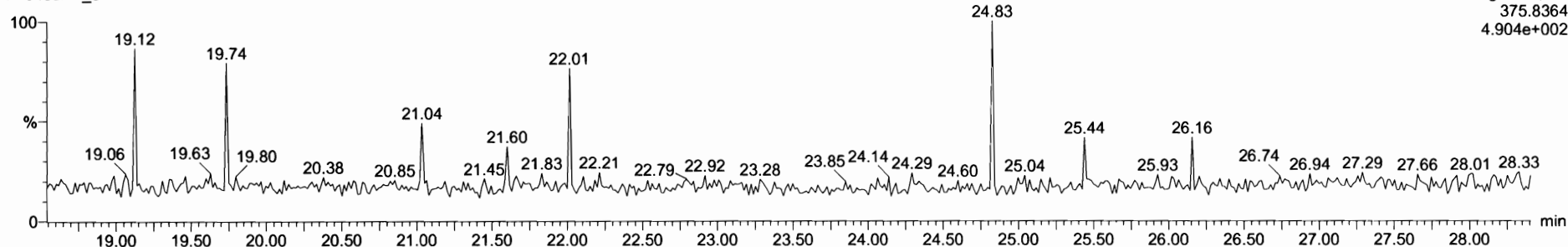


210408D1\_3



**DPE1**

210408D1\_3



Dataset: Untitled

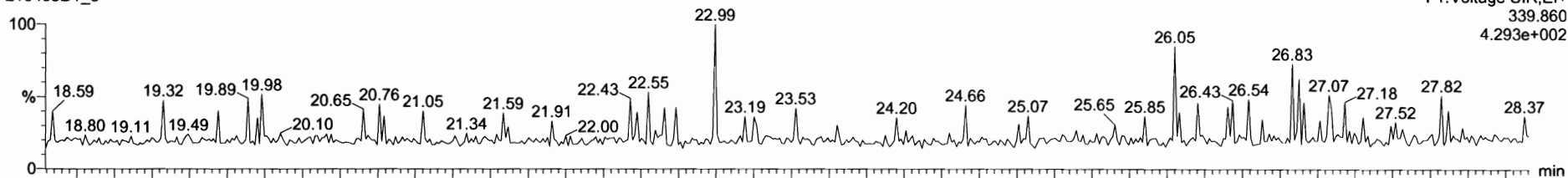
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

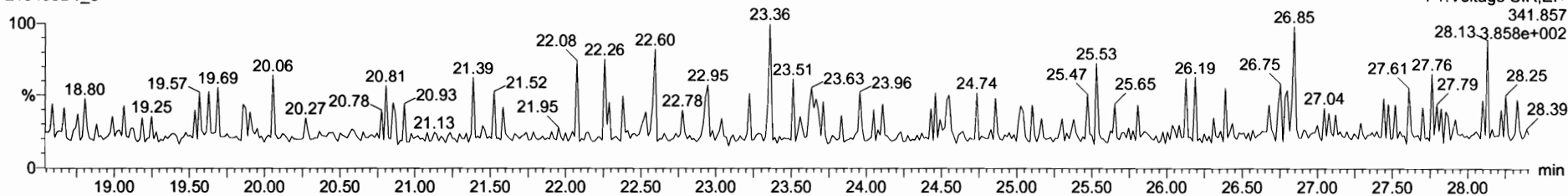
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1st Func. Penta-Furans

210408D1\_3

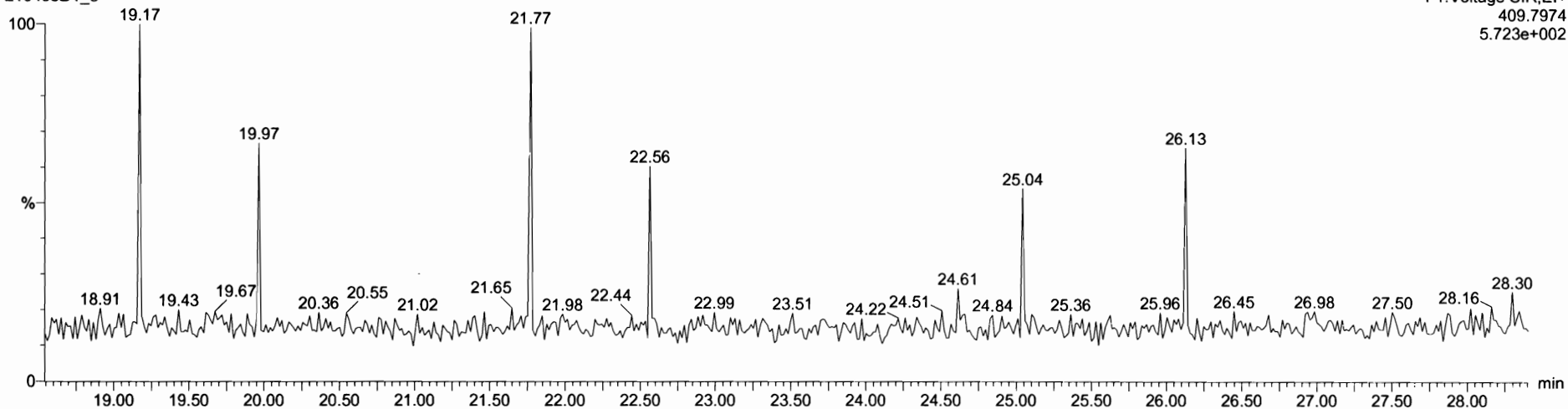


210408D1\_3



DPE6

210408D1\_3



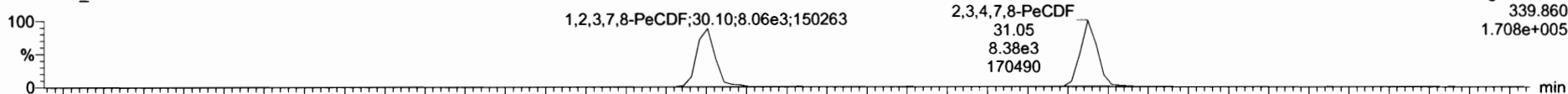
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

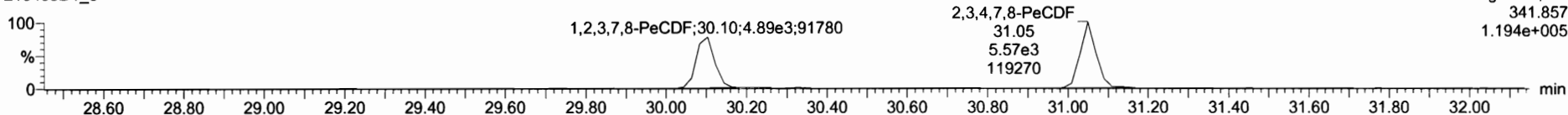
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**1,2,3,7,8-PeCDF**

210408D1\_3

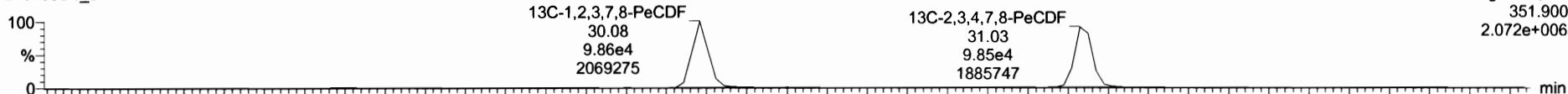


210408D1\_3

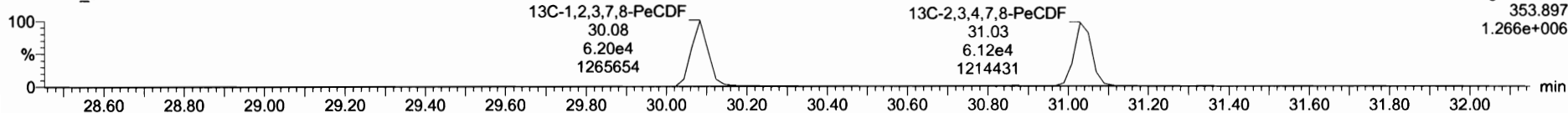


**13C-1,2,3,7,8-PeCDF**

210408D1\_3

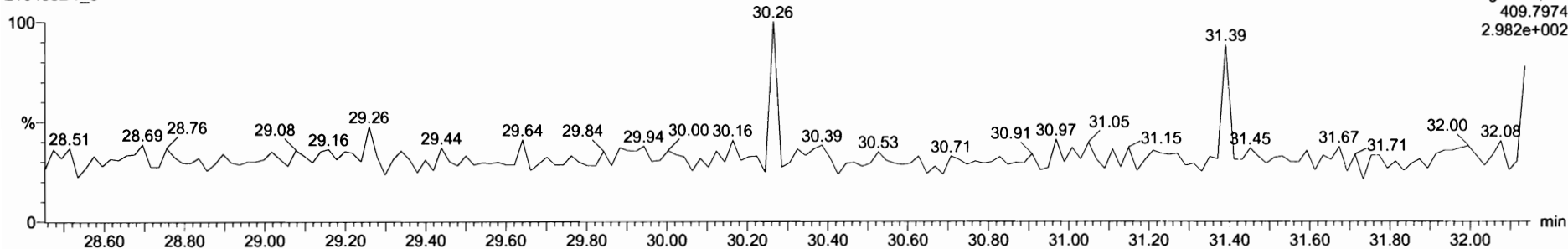


210408D1\_3



**DPE2**

210408D1\_3



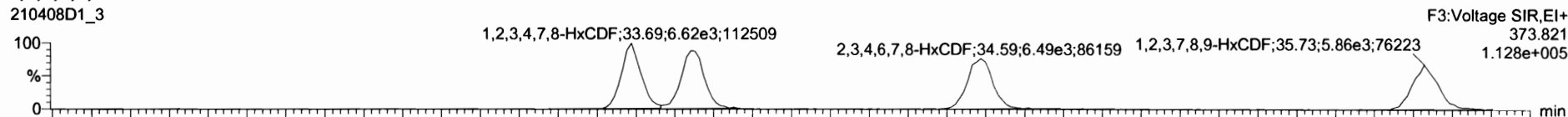
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

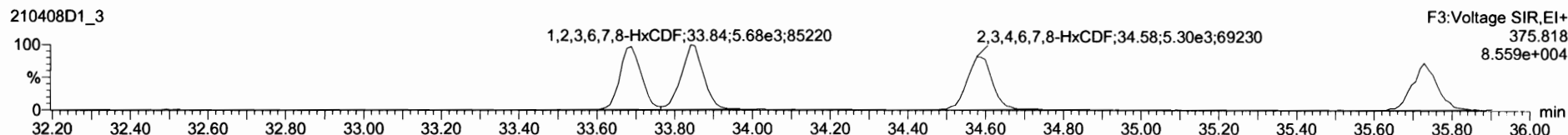
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**1,2,3,4,7,8-HxCDF**

210408D1\_3

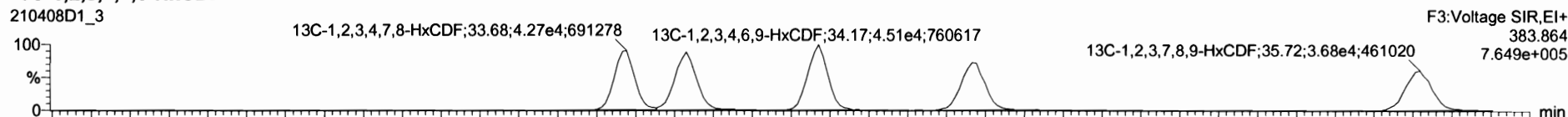


210408D1\_3

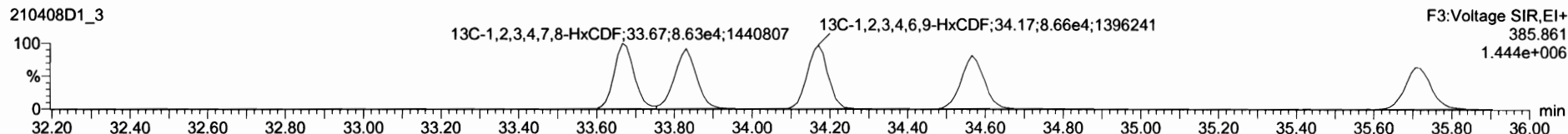


**13C-1,2,3,4,7,8-HxCDF**

210408D1\_3

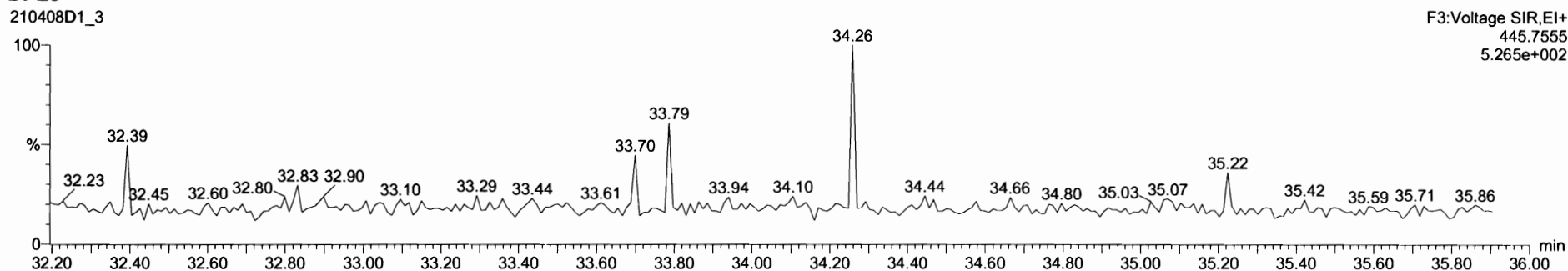


210408D1\_3



**DPE3**

210408D1\_3

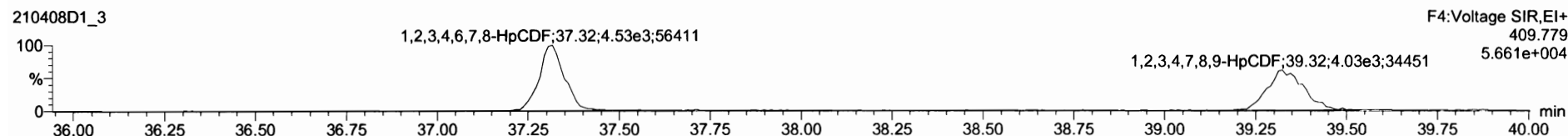
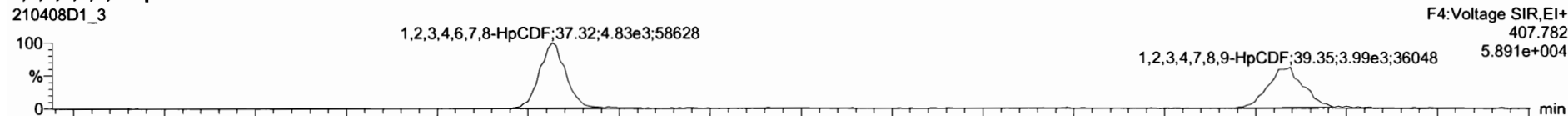


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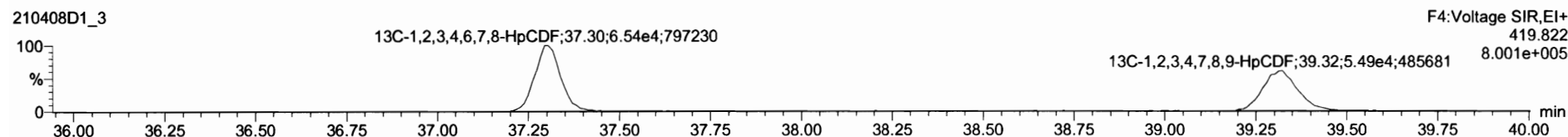
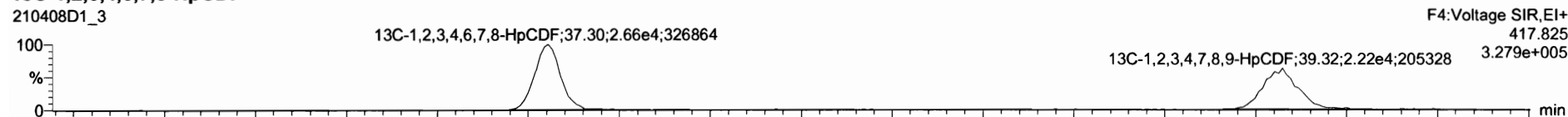
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

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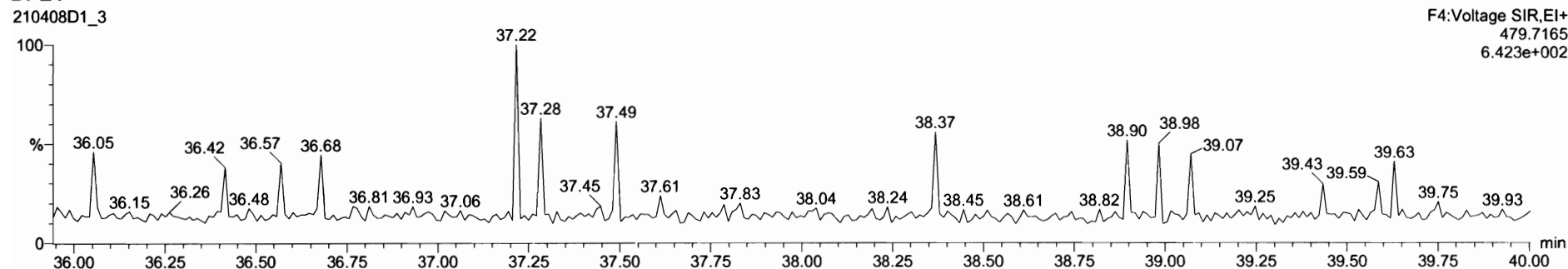
**1,2,3,4,6,7,8-HpCDF**



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



**DPE4**

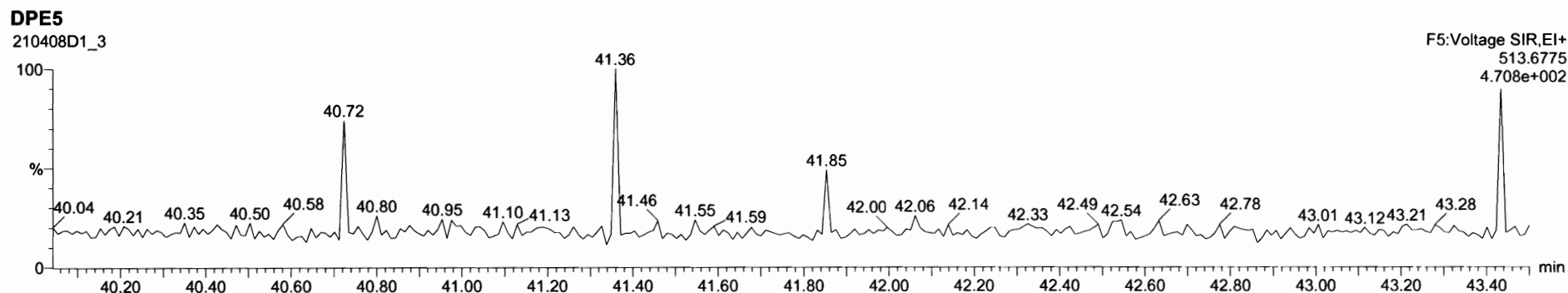
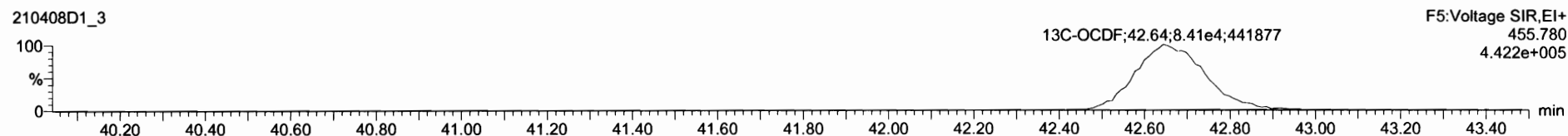
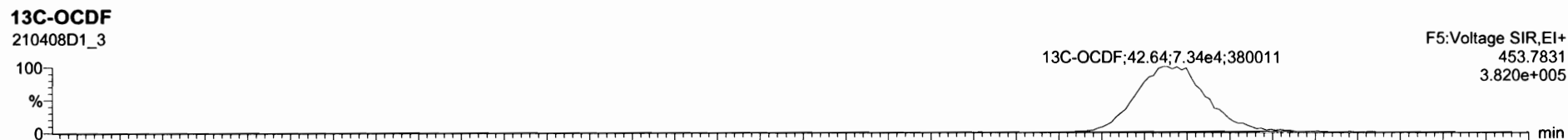
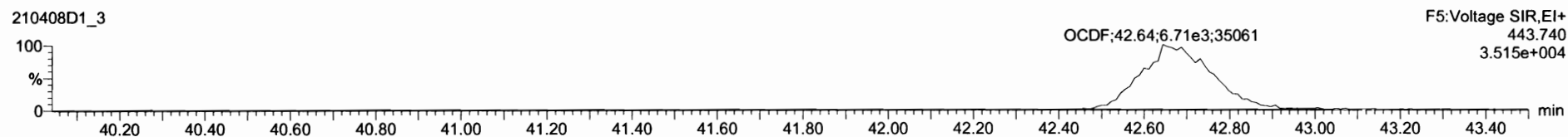
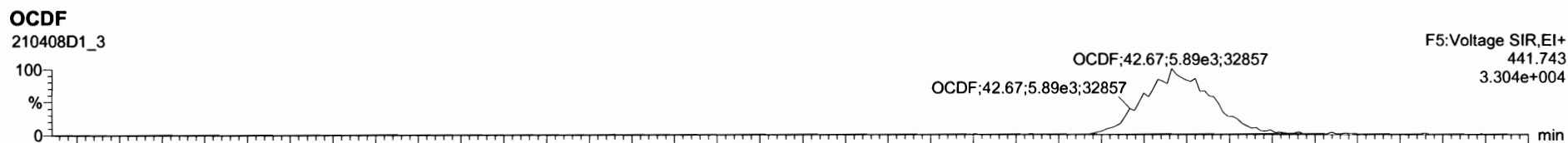




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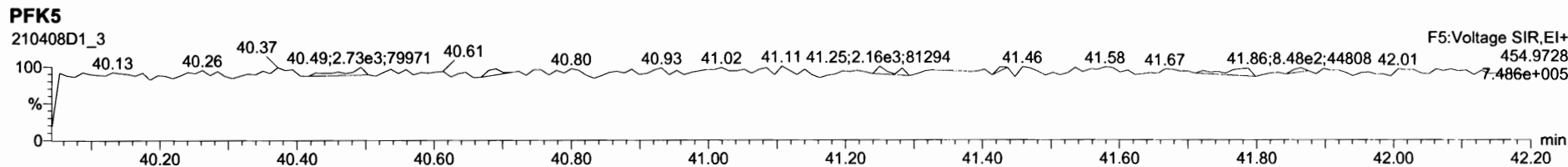
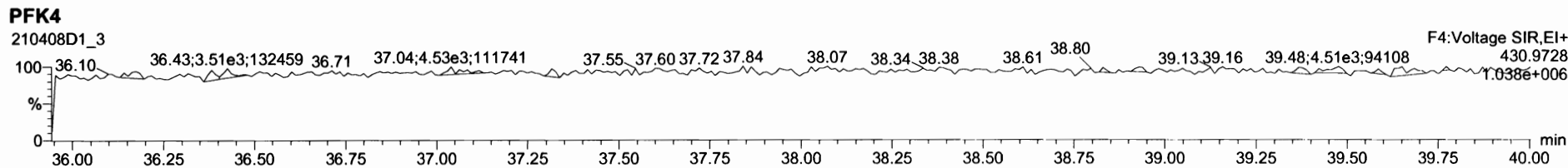
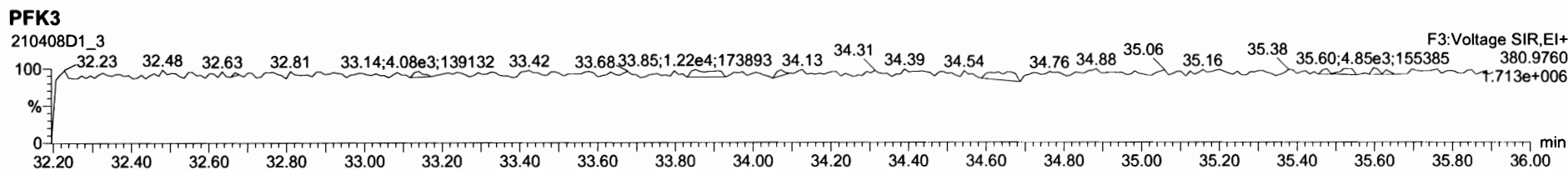
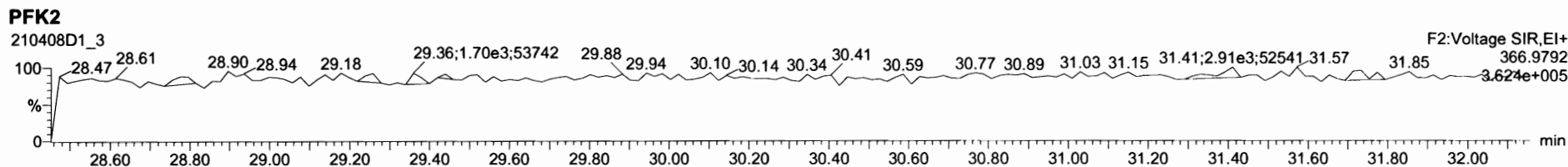
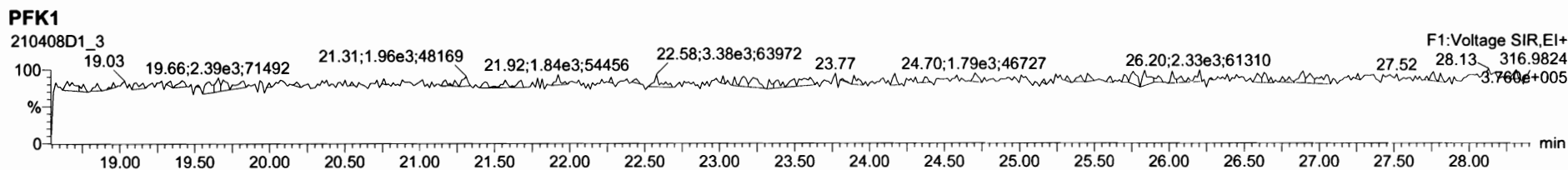
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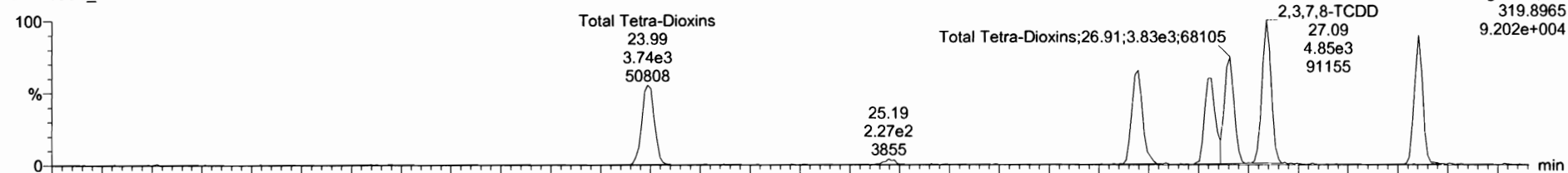
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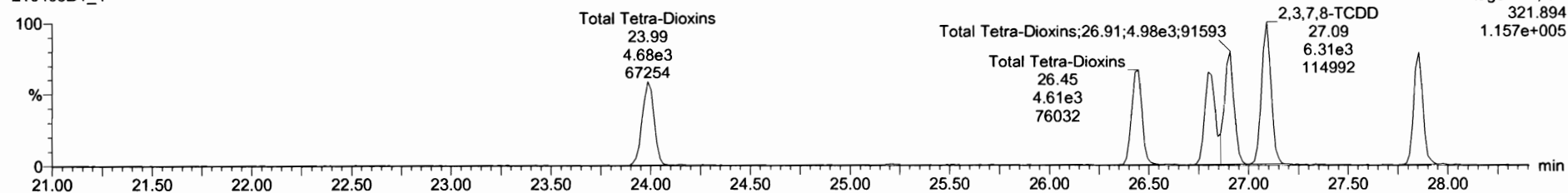
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**2,3,7,8-TCDD**

210408D1\_4

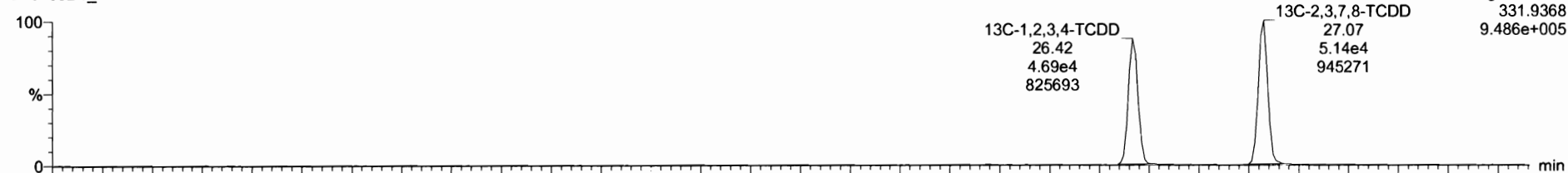


210408D1\_4

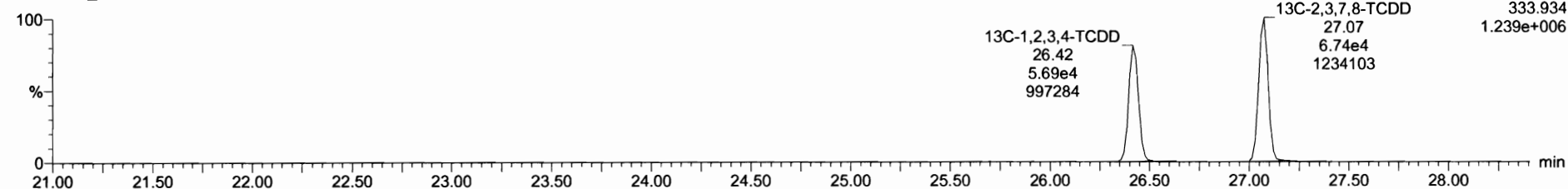


**13C-2,3,7,8-TCDD**

210408D1\_4



210408D1\_4



Dataset: Untitled

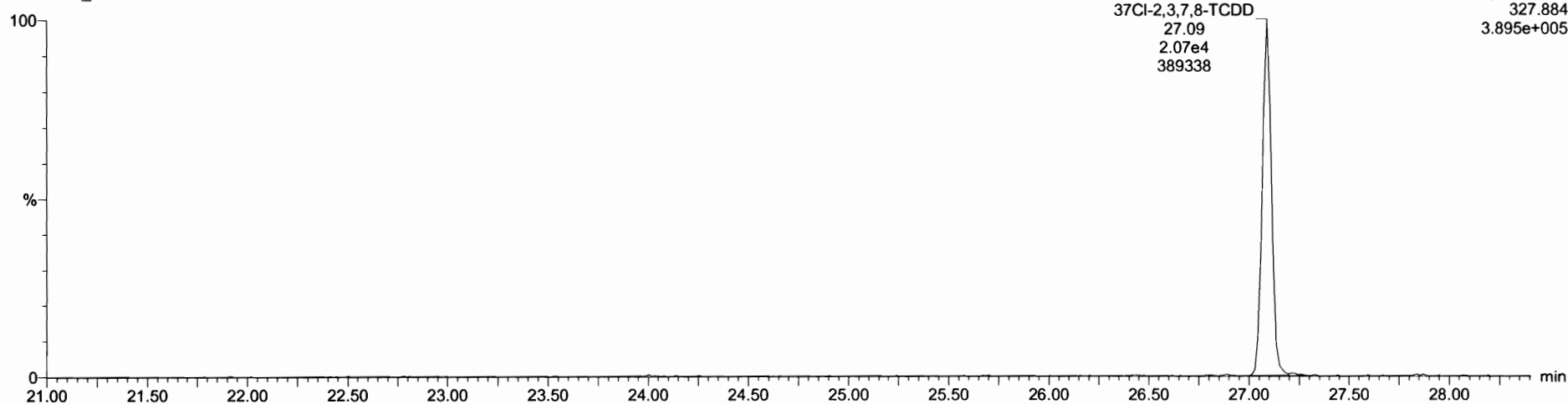
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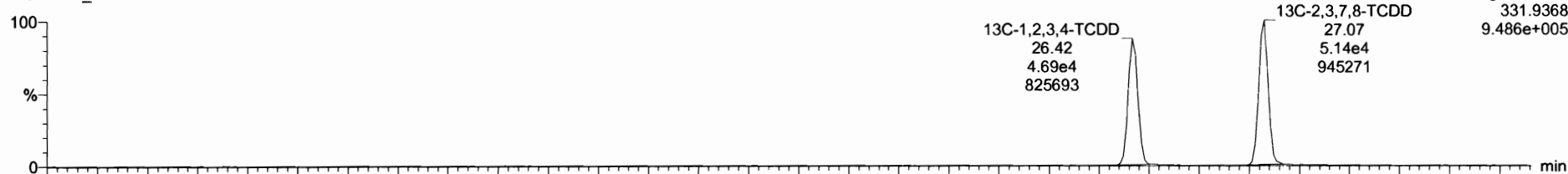
**37Cl-2,3,7,8-TCDD**

210408D1\_4

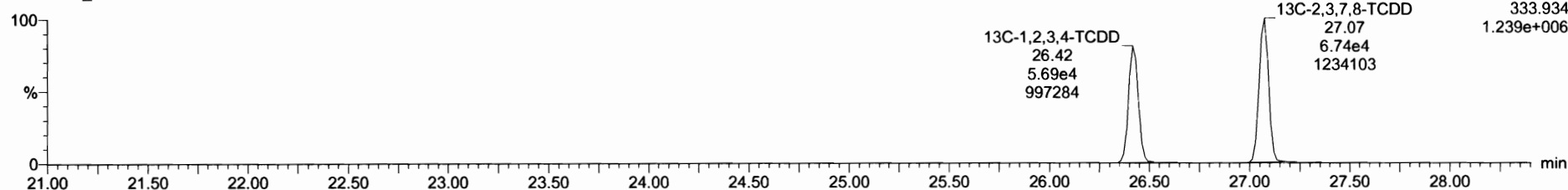


**13C-1,2,3,4-TCDD**

210408D1\_4



210408D1\_4



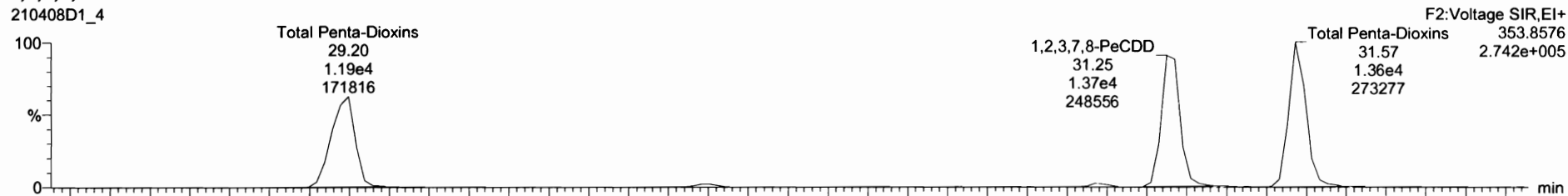
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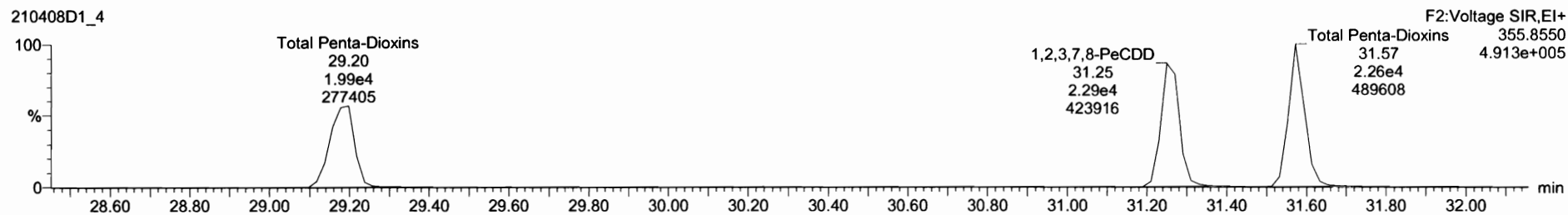
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**1,2,3,7,8-PeCDD**

210408D1\_4

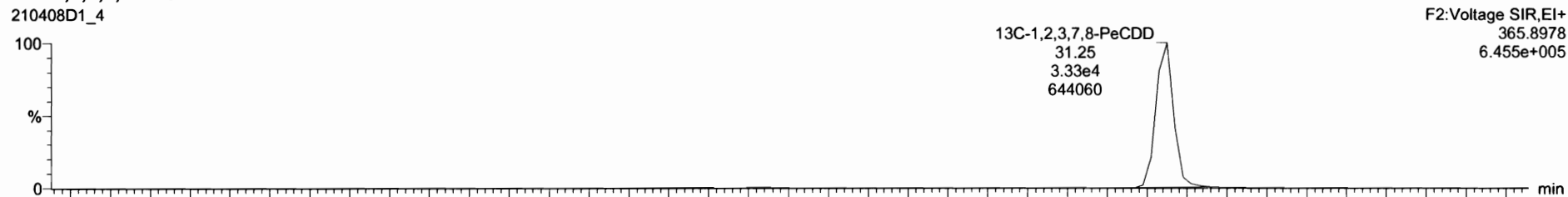


210408D1\_4

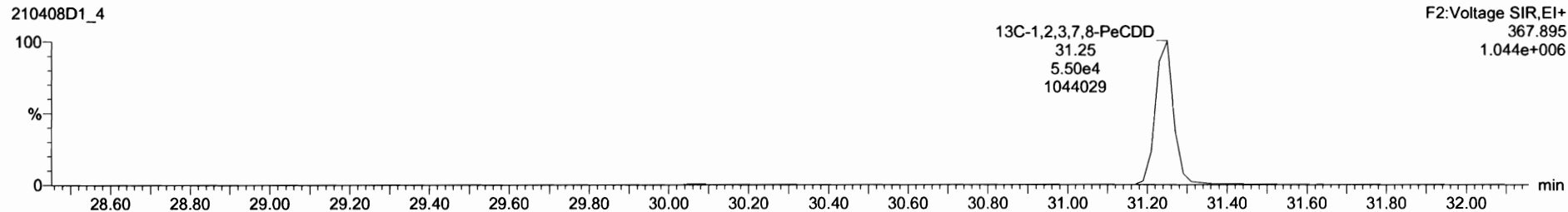


**13C-1,2,3,7,8-PeCDD**

210408D1\_4



210408D1\_4



Dataset: Untitled

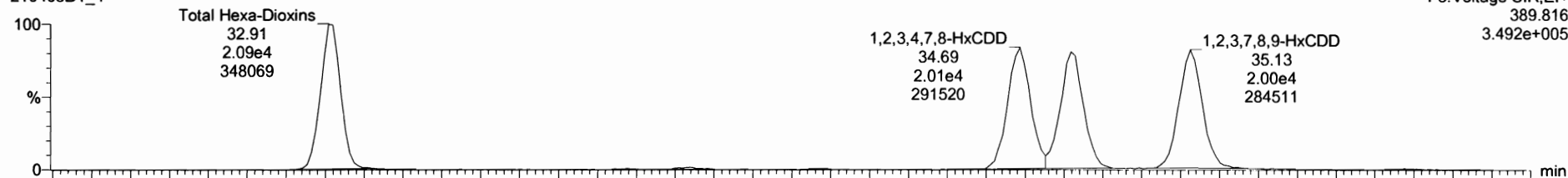
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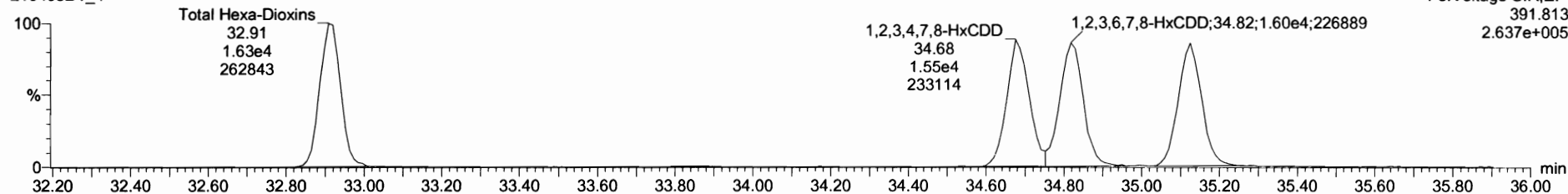
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**1,2,3,4,7,8-HxCDD**

210408D1\_4

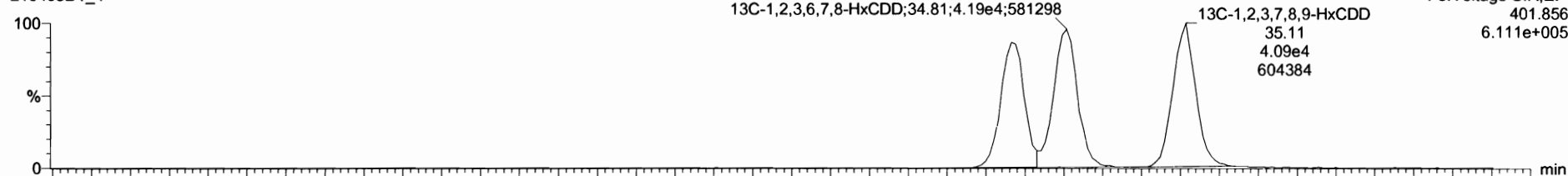


210408D1\_4

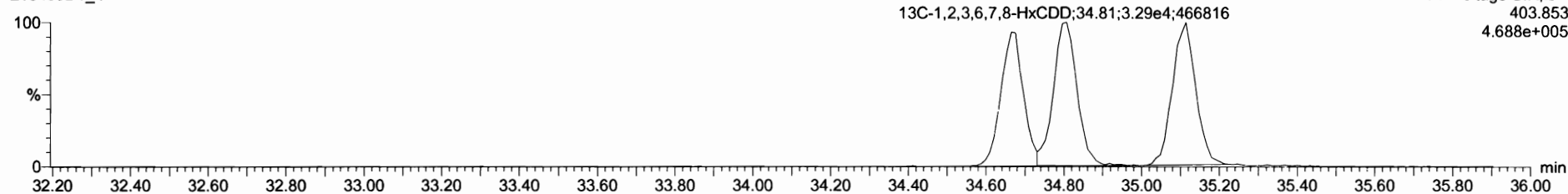


**13C-1,2,3,4,7,8-HxCDD**

210408D1\_4



210408D1\_4



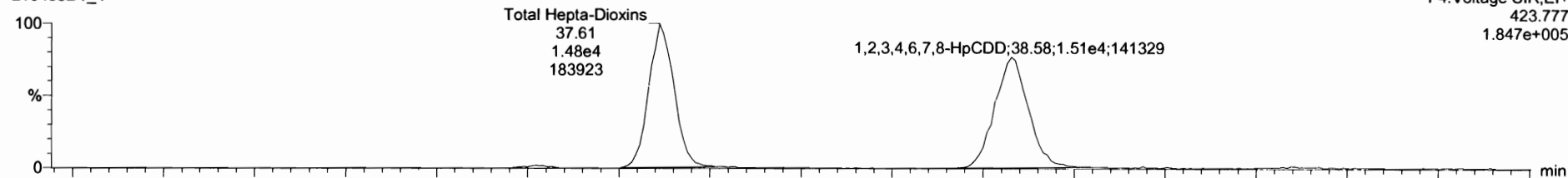
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

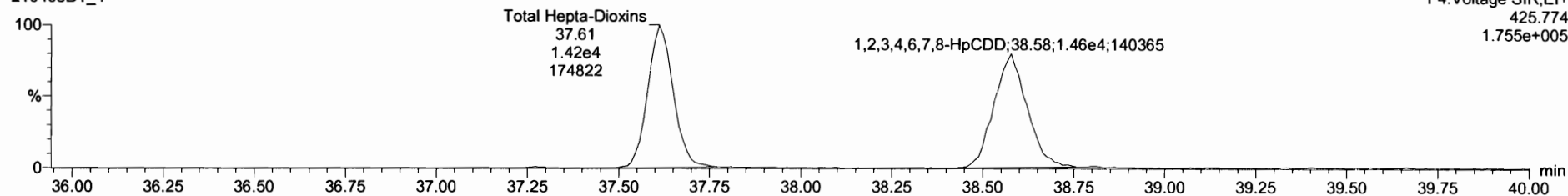
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**1,2,3,4,6,7,8-HpCDD**

210408D1\_4

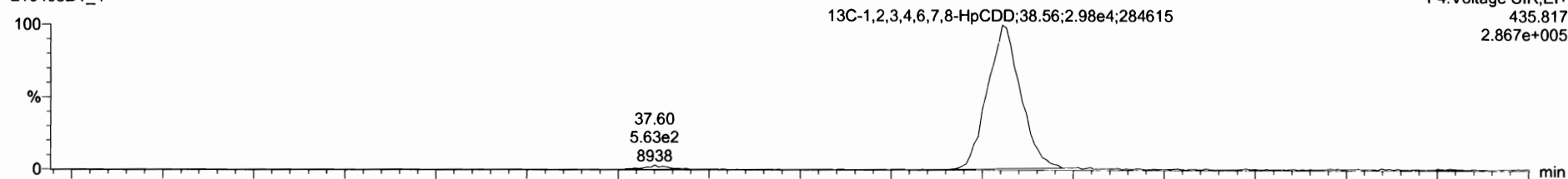


210408D1\_4

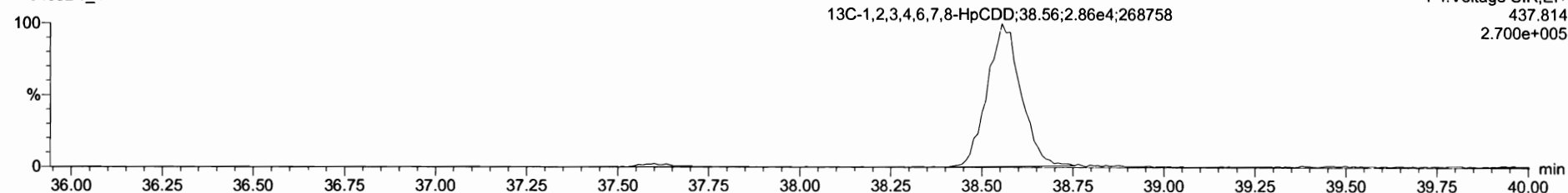


**13C-1,2,3,4,6,7,8-HpCDD**

210408D1\_4



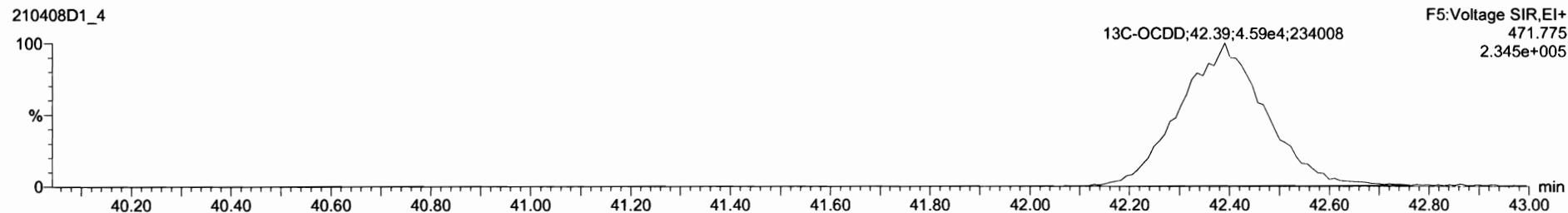
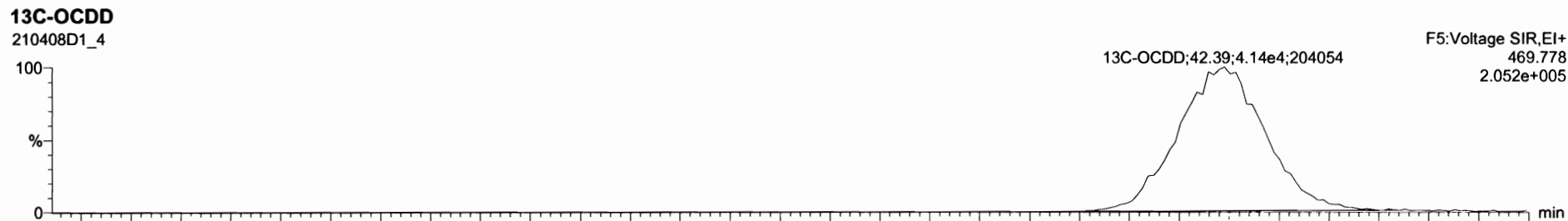
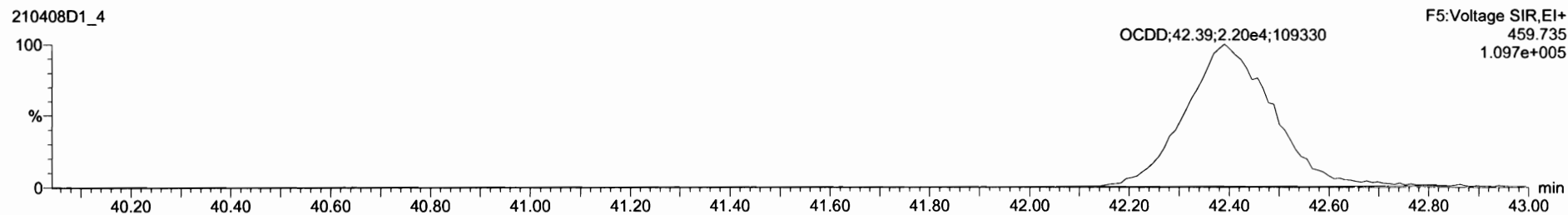
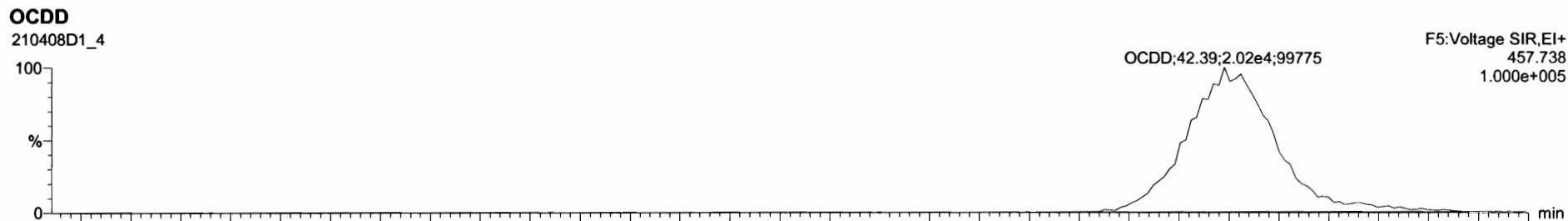
210408D1\_4



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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1\_4, Date: 08-Apr-2021, Time: 10:53:15, ID: ST210408D1-4 1613 CS3 21C0105, Description: 1613 CS3 21C0105





Dataset: Untitled

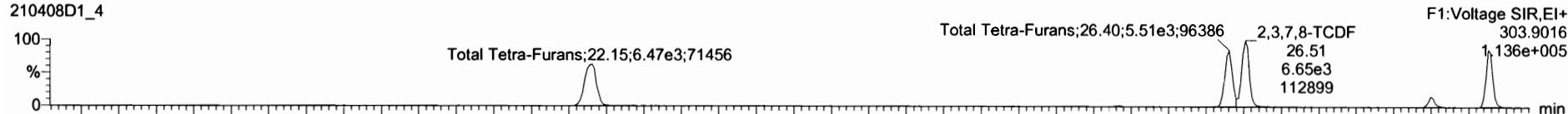
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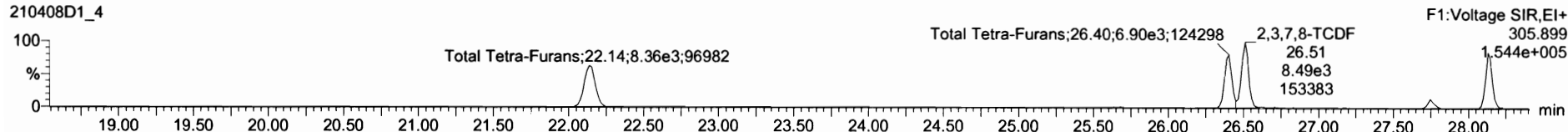
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### 2,3,7,8-TCDF

210408D1\_4

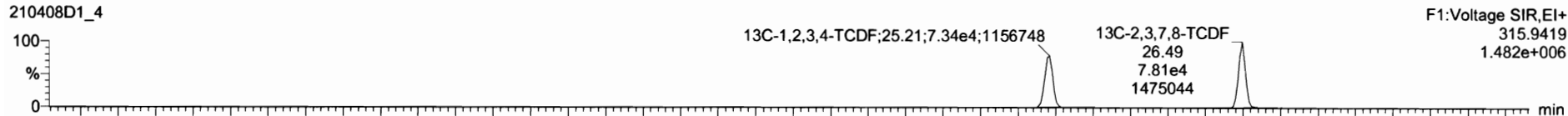


210408D1\_4

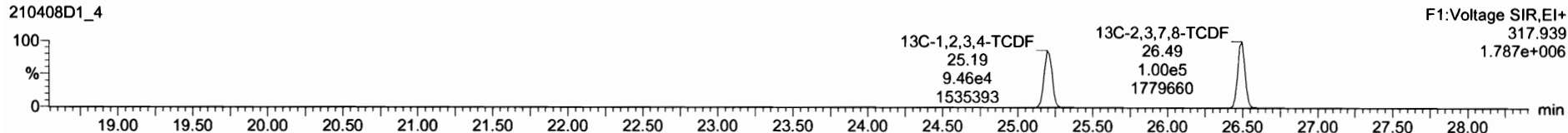


### 13C-2,3,7,8-TCDF

210408D1\_4

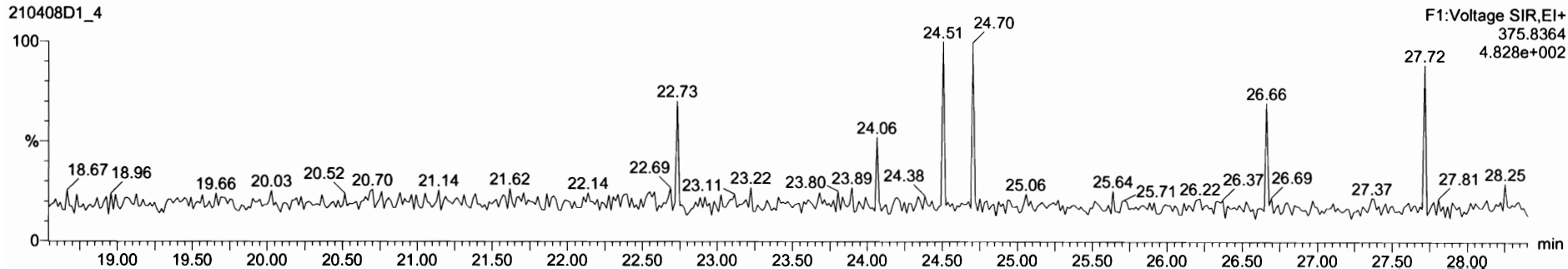


210408D1\_4



### DPE1

210408D1\_4



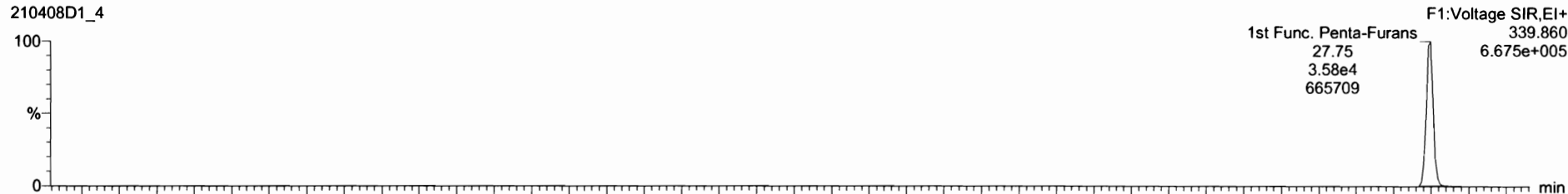
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

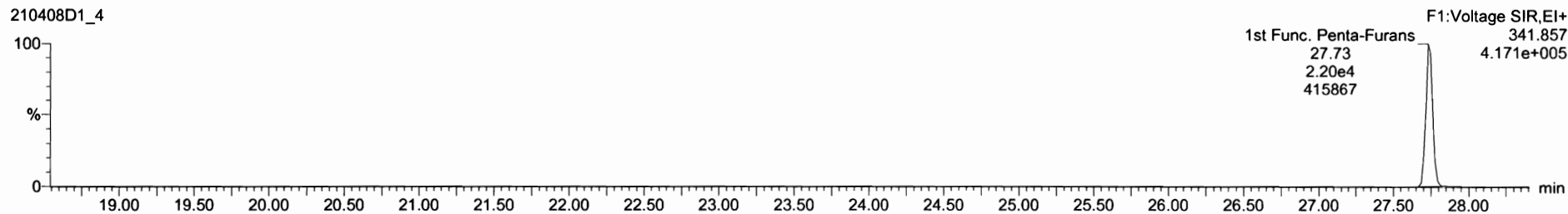
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1st Func. Penta-Furans

210408D1\_4

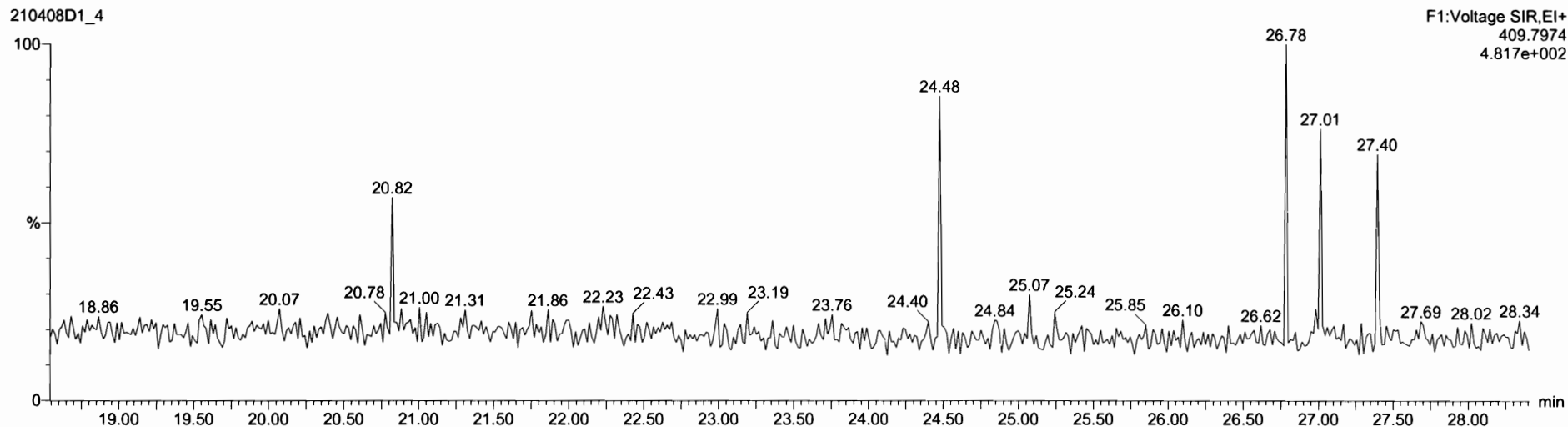


210408D1\_4



DPE6

210408D1\_4



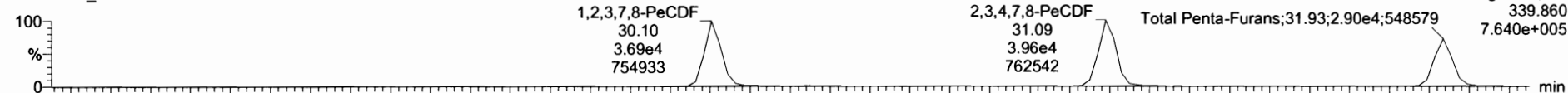
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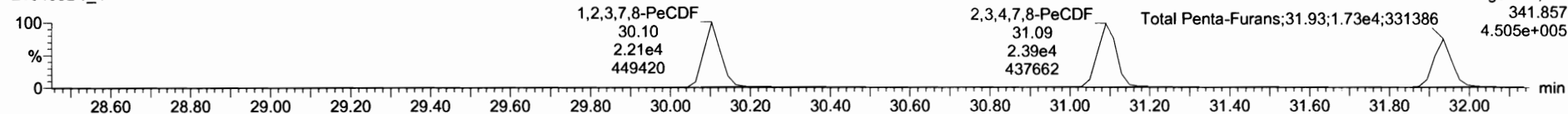
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**1,2,3,7,8-PeCDF**

210408D1\_4



210408D1\_4

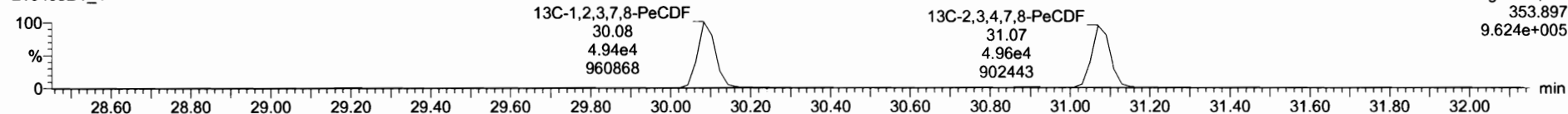


**13C-1,2,3,7,8-PeCDF**

210408D1\_4

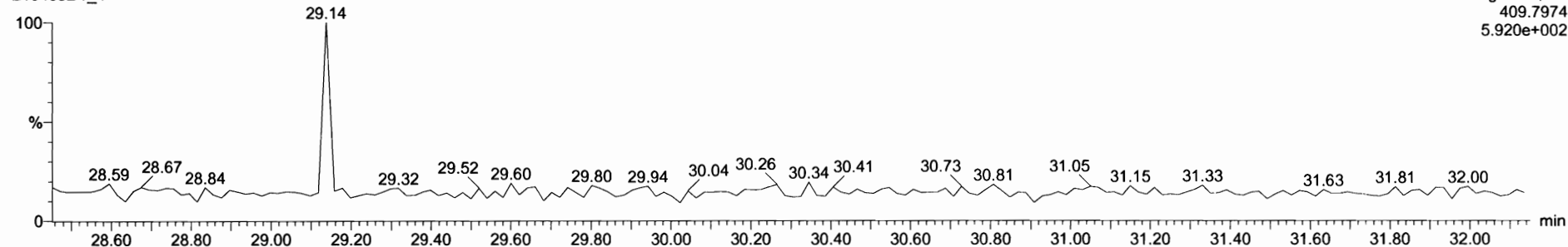


210408D1\_4



**DPE2**

210408D1\_4

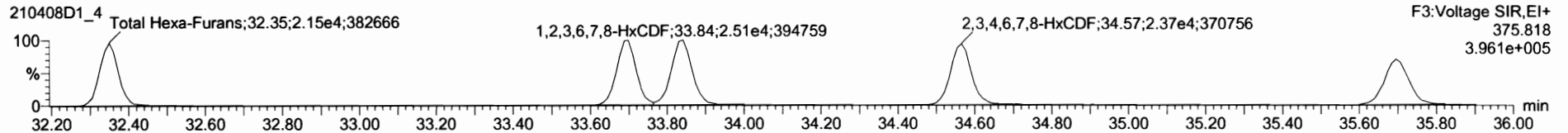
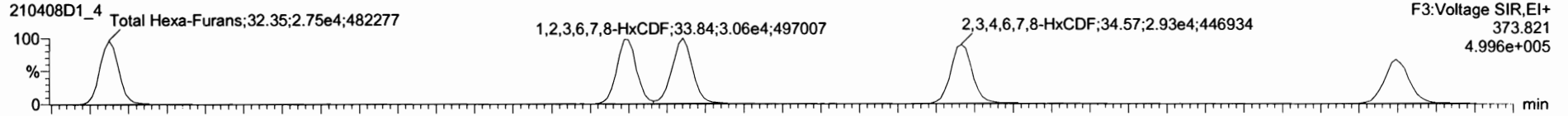


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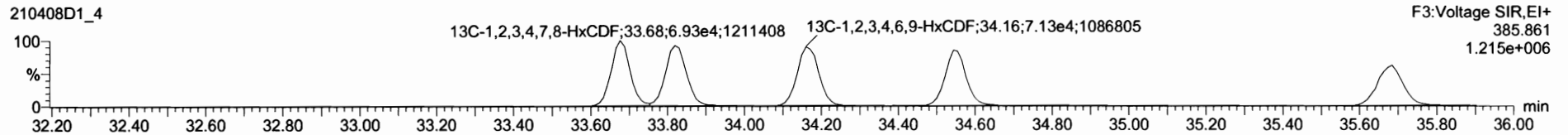
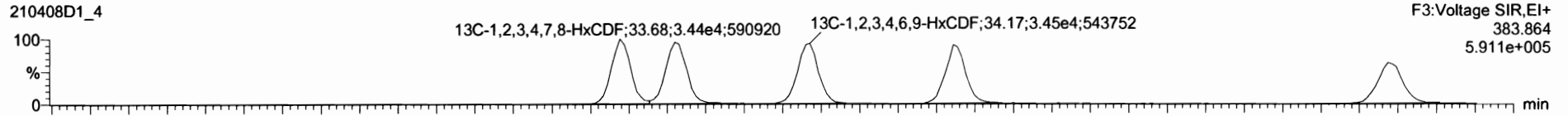
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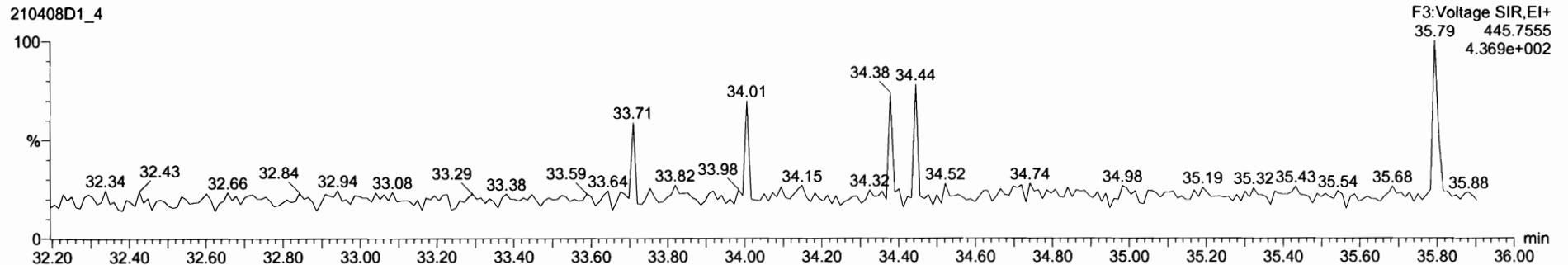
**1,2,3,4,7,8-HxCDF**



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



**DPE3**



Dataset: Untitled

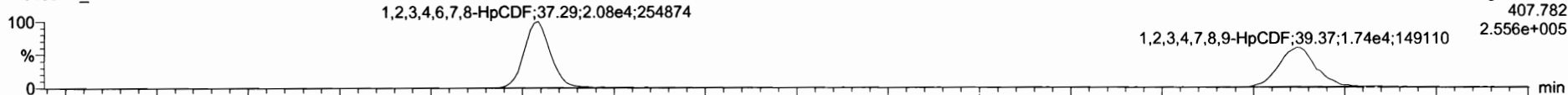
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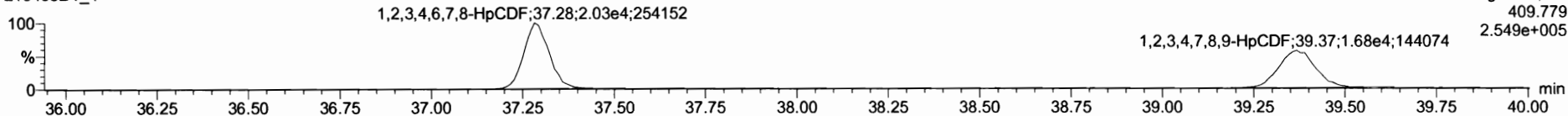
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**1,2,3,4,6,7,8-HpCDF**

210408D1\_4

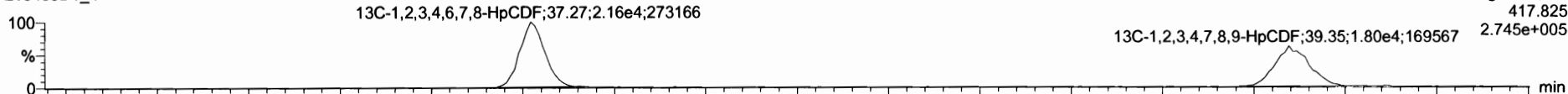


210408D1\_4

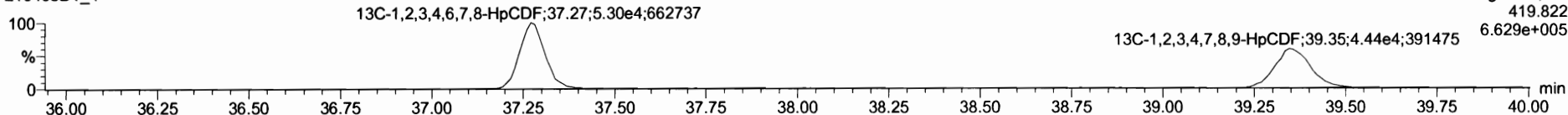


**13C-1,2,3,4,6,7,8-HpCDF**

210408D1\_4

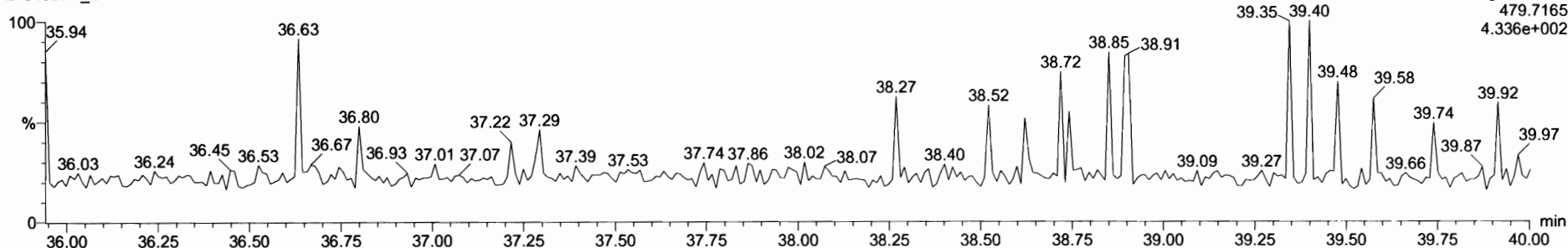


210408D1\_4



**DPE4**

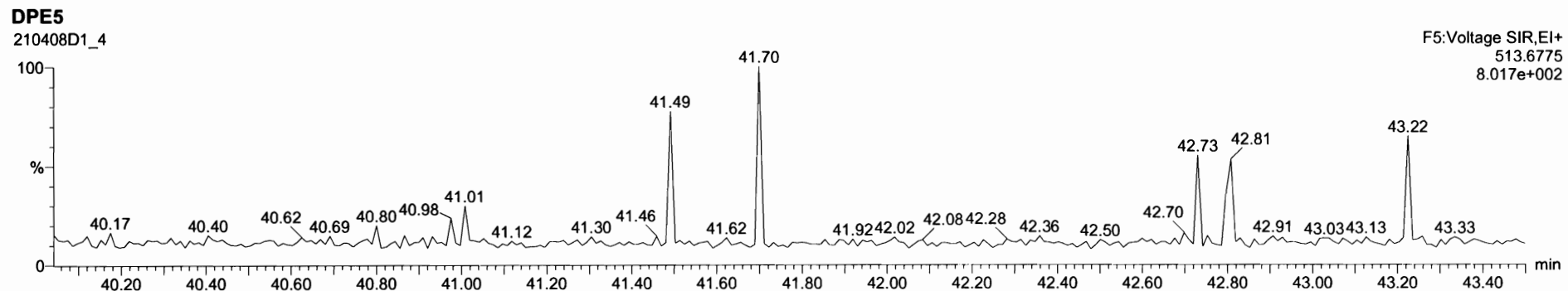
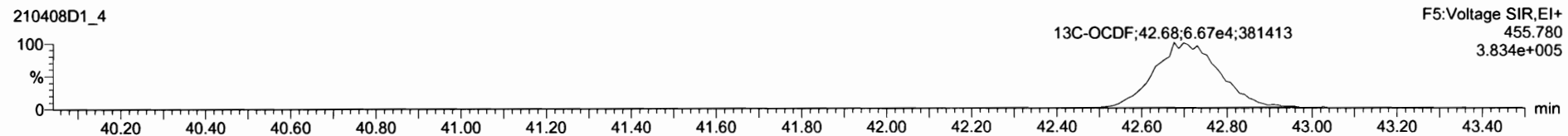
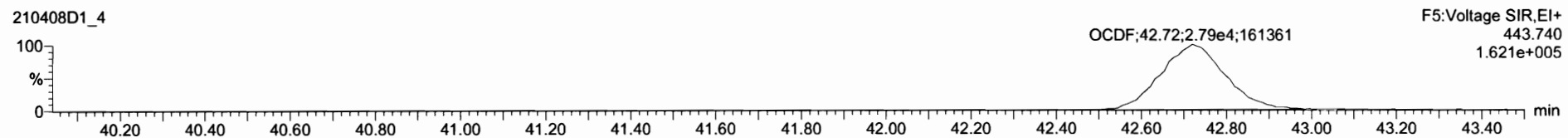
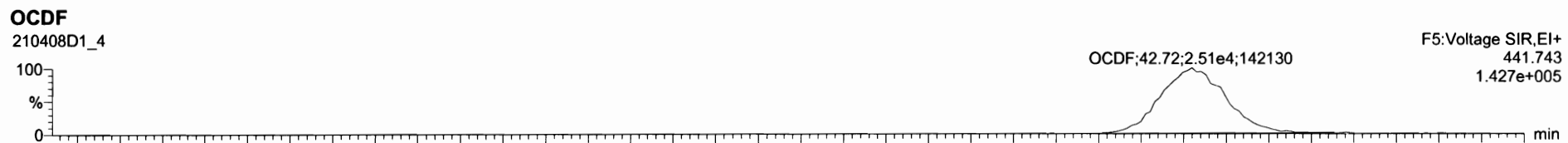
210408D1\_4



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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

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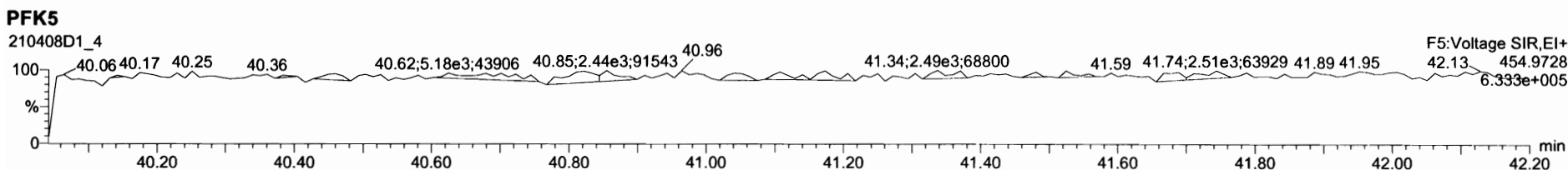
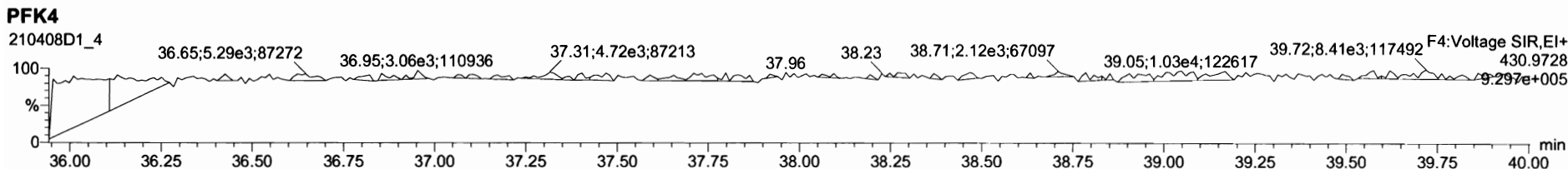
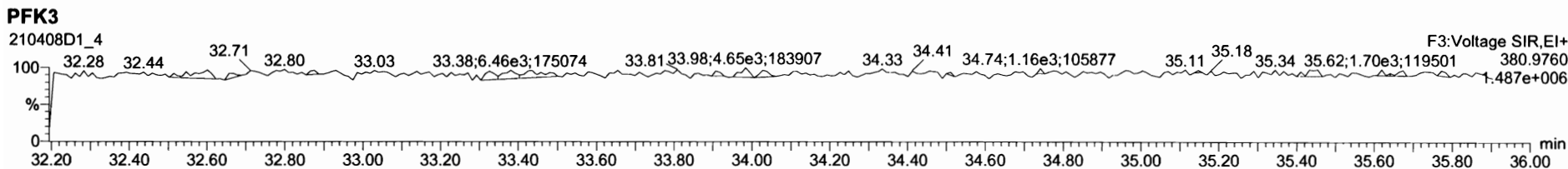
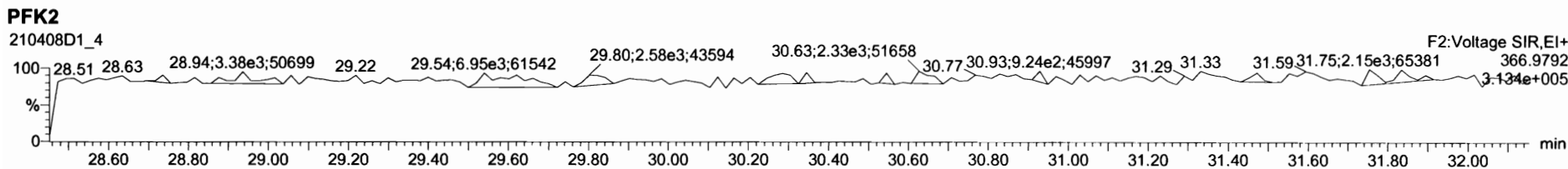
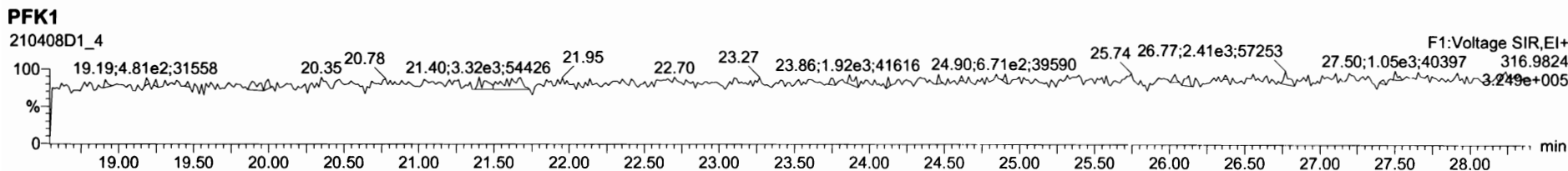


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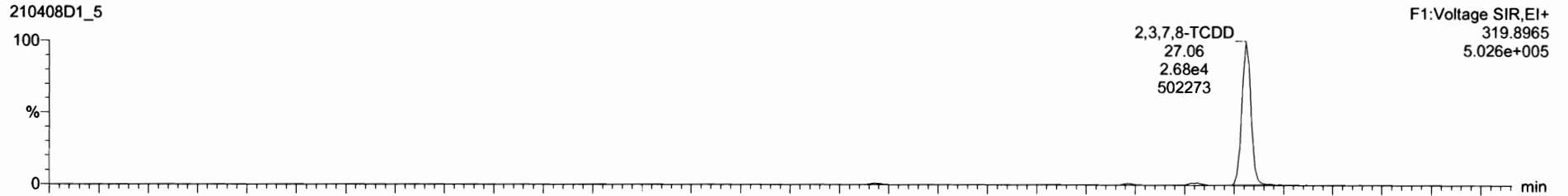
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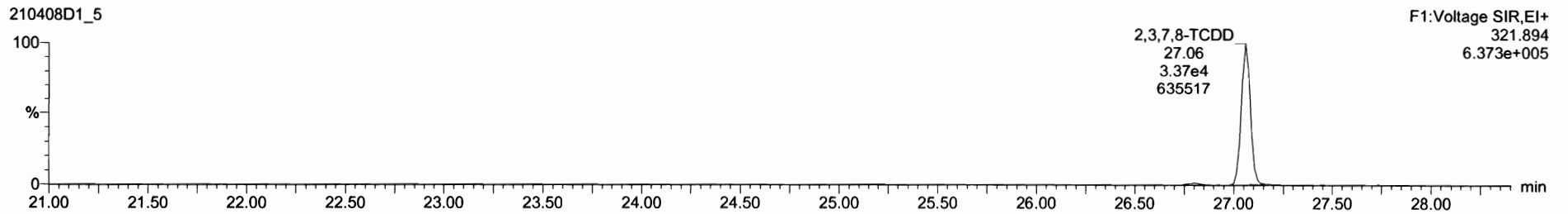
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**2,3,7,8-TCDD**

210408D1\_5

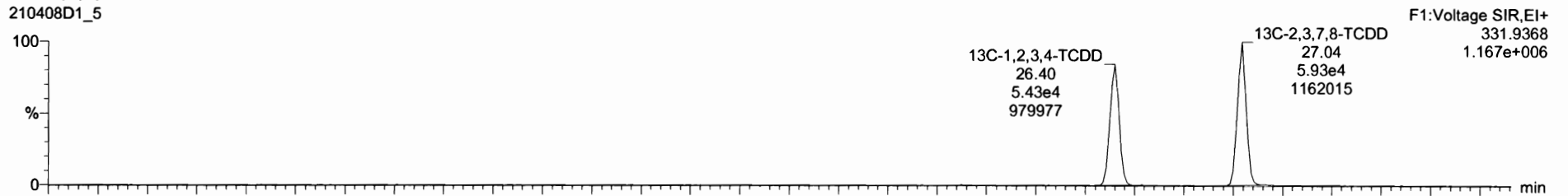


210408D1\_5

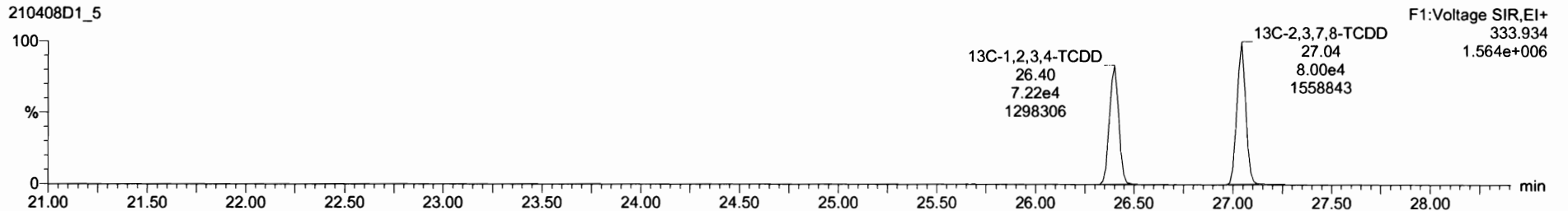


**13C-2,3,7,8-TCDD**

210408D1\_5



210408D1\_5





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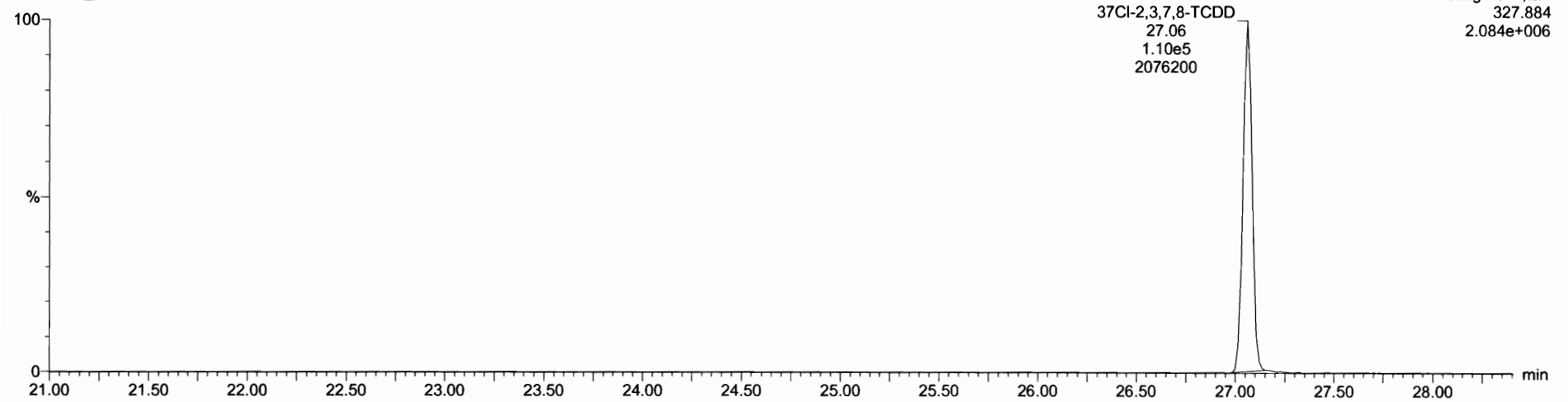
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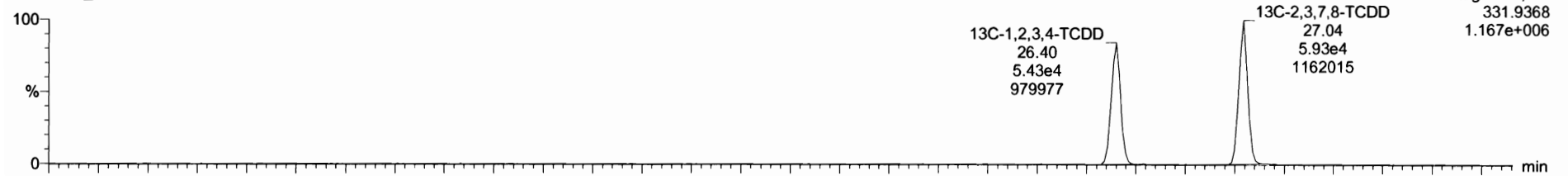
**37Cl-2,3,7,8-TCDD**

210408D1\_5

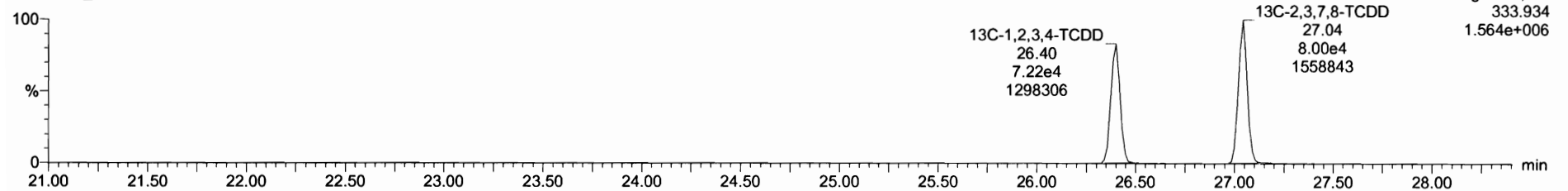


**13C-1,2,3,4-TCDD**

210408D1\_5



210408D1\_5



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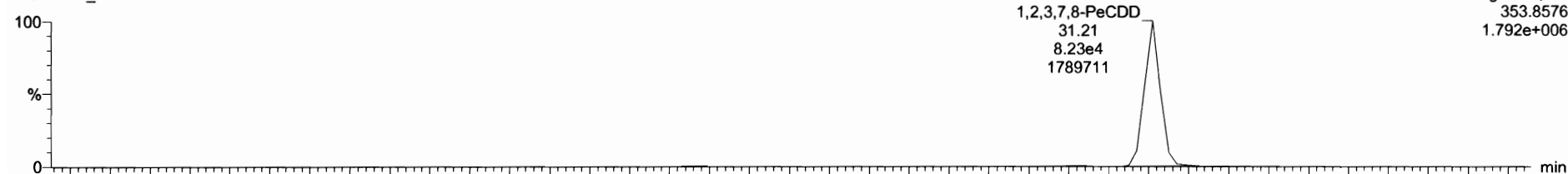
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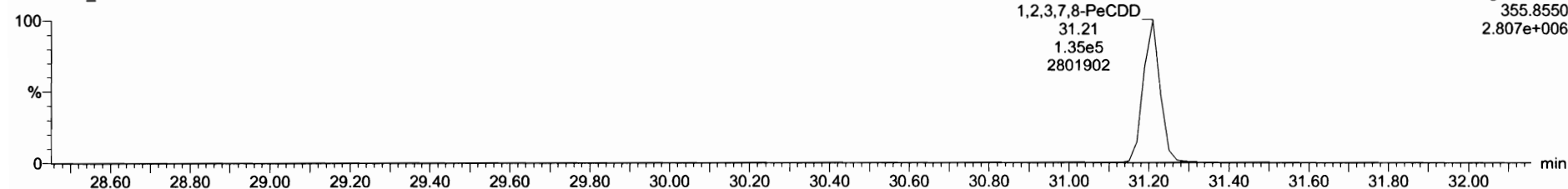
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**1,2,3,7,8-PeCDD**

210408D1\_5

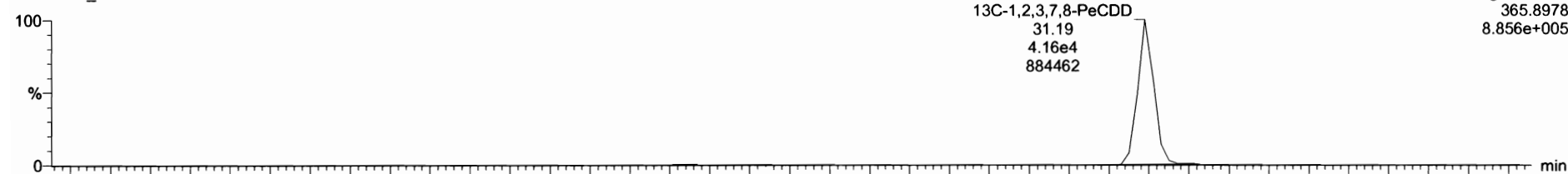


210408D1\_5

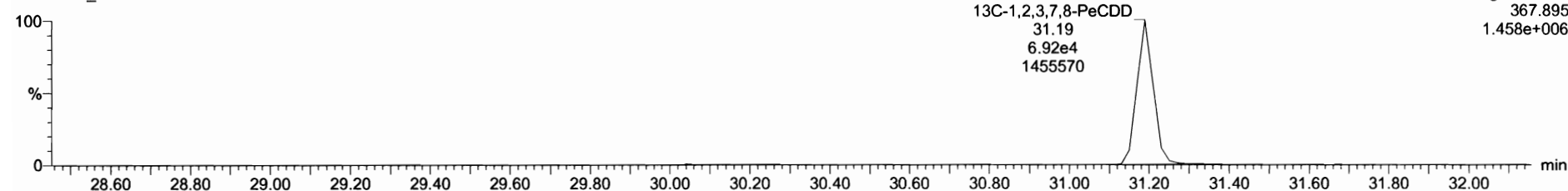


**13C-1,2,3,7,8-PeCDD**

210408D1\_5



210408D1\_5



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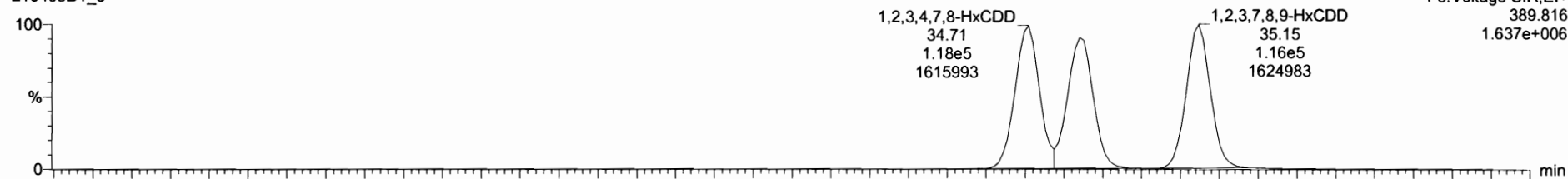
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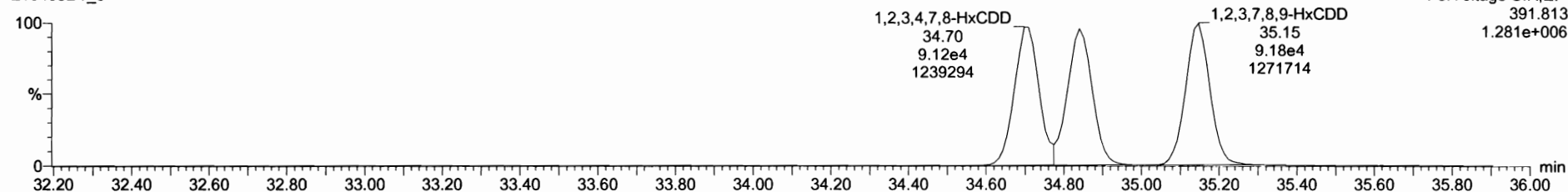
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**1,2,3,4,7,8-HxCDD**

210408D1\_5

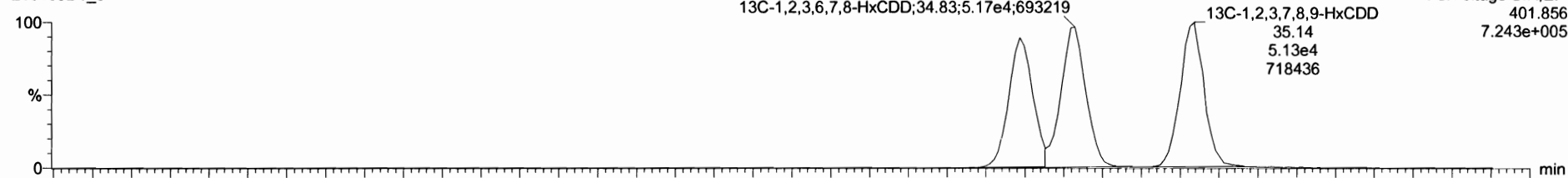


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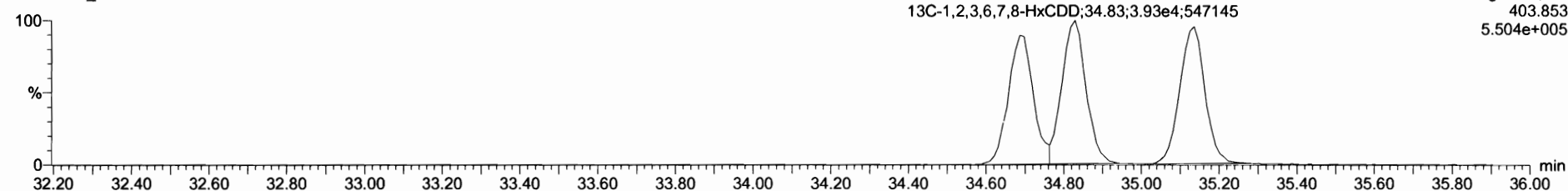


**13C-1,2,3,4,7,8-HxCDD**

210408D1\_5



210408D1\_5



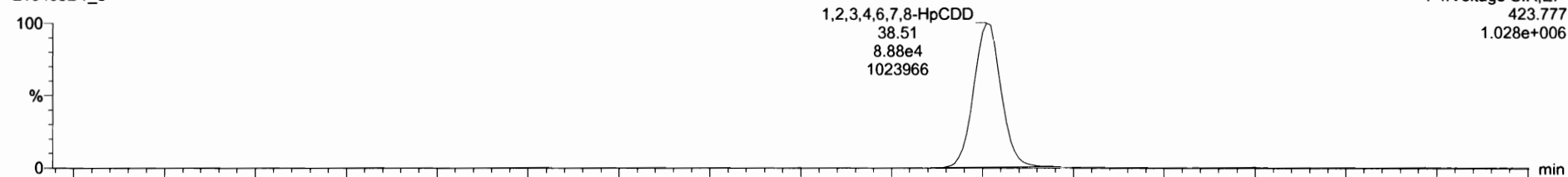
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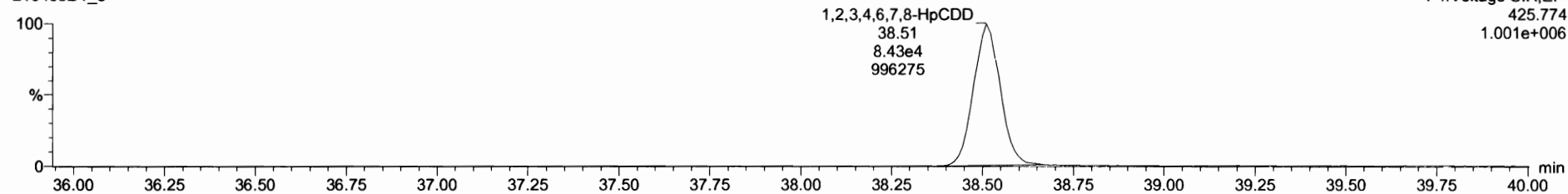
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**1,2,3,4,6,7,8-HpCDD**

210408D1\_5

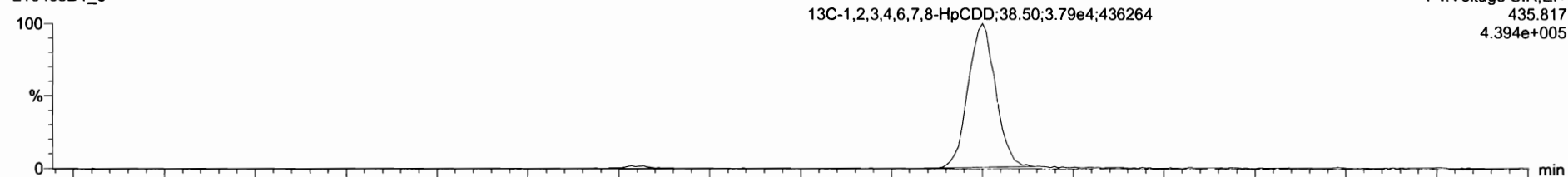


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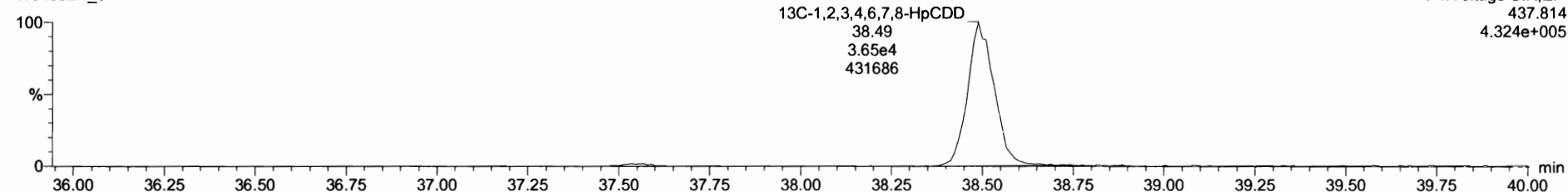


**13C-1,2,3,4,6,7,8-HpCDD**

210408D1\_5



210408D1\_5

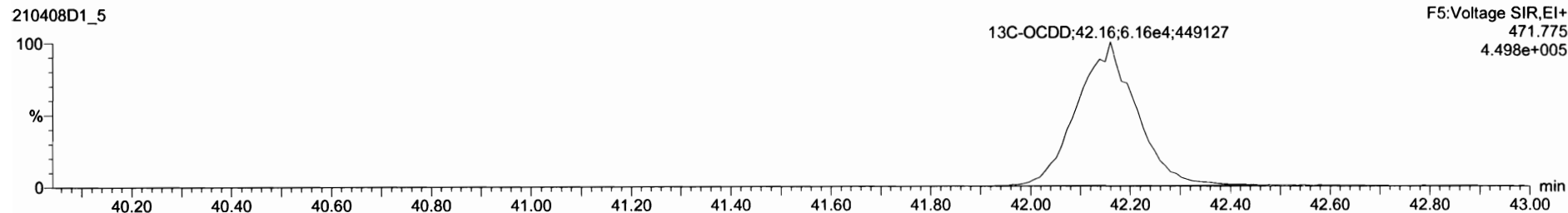
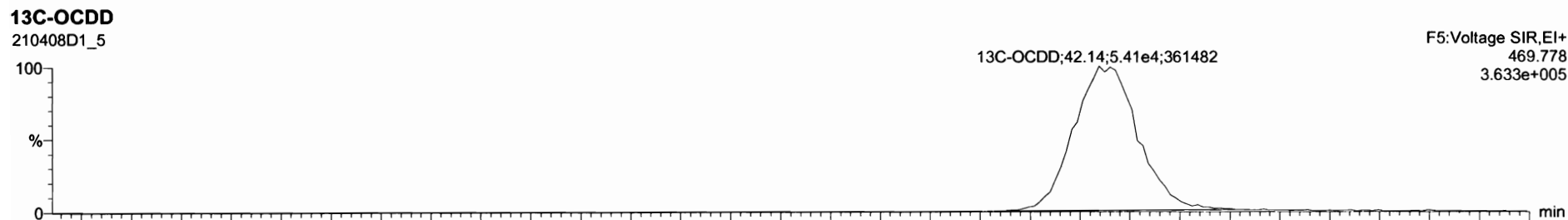
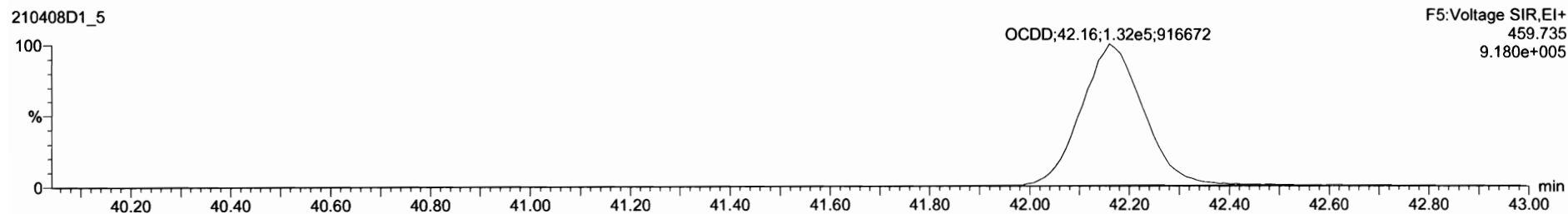
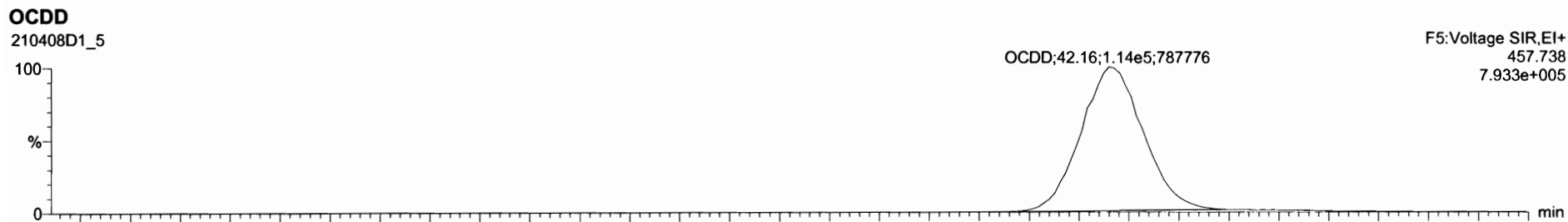


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Dataset: Untitled

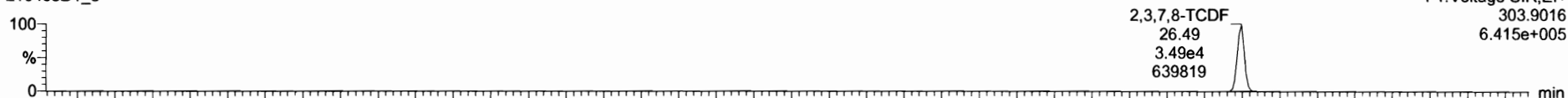
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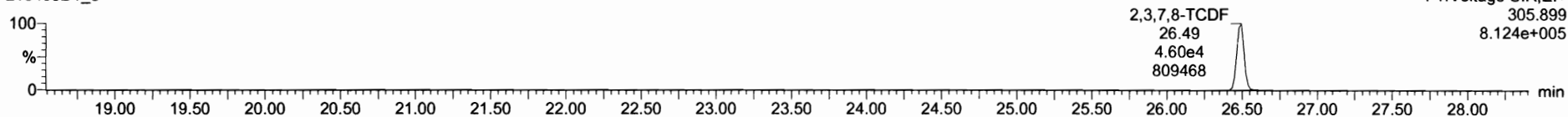
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**2,3,7,8-TCDF**

210408D1\_5

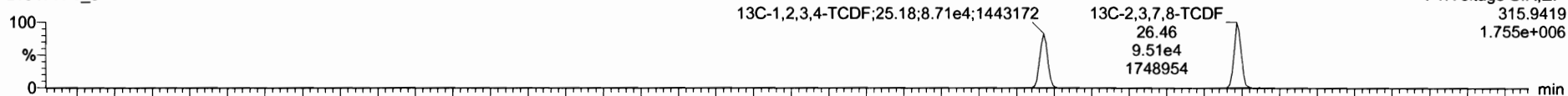


210408D1\_5

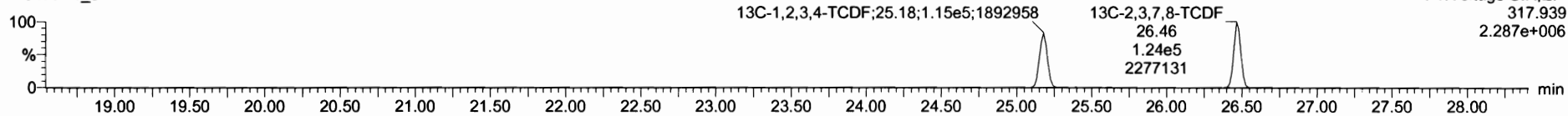


**13C-2,3,7,8-TCDF**

210408D1\_5

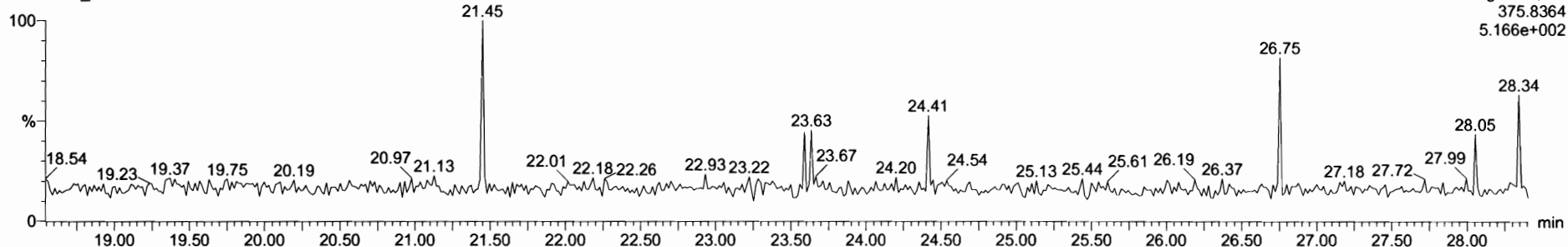


210408D1\_5



**DPE1**

210408D1\_5



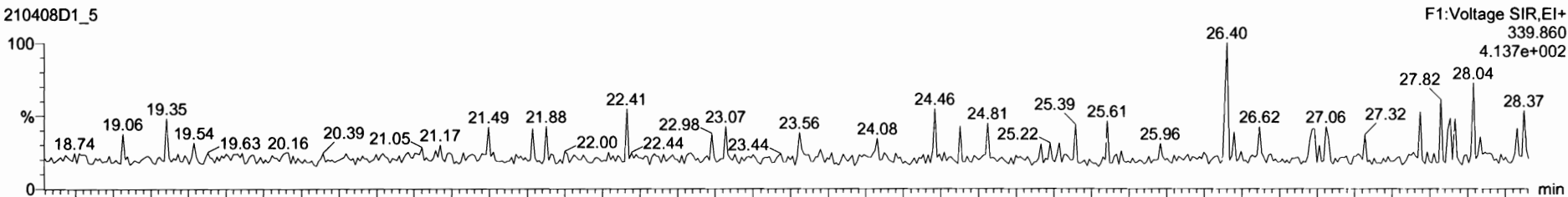
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
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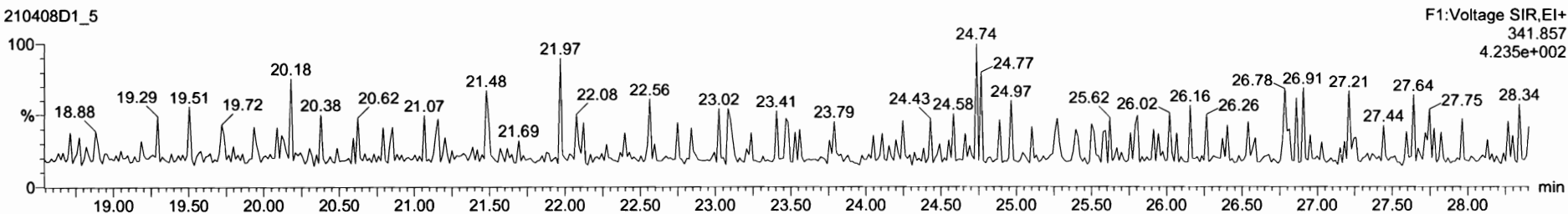
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1st Func. Penta-Furans

210408D1\_5

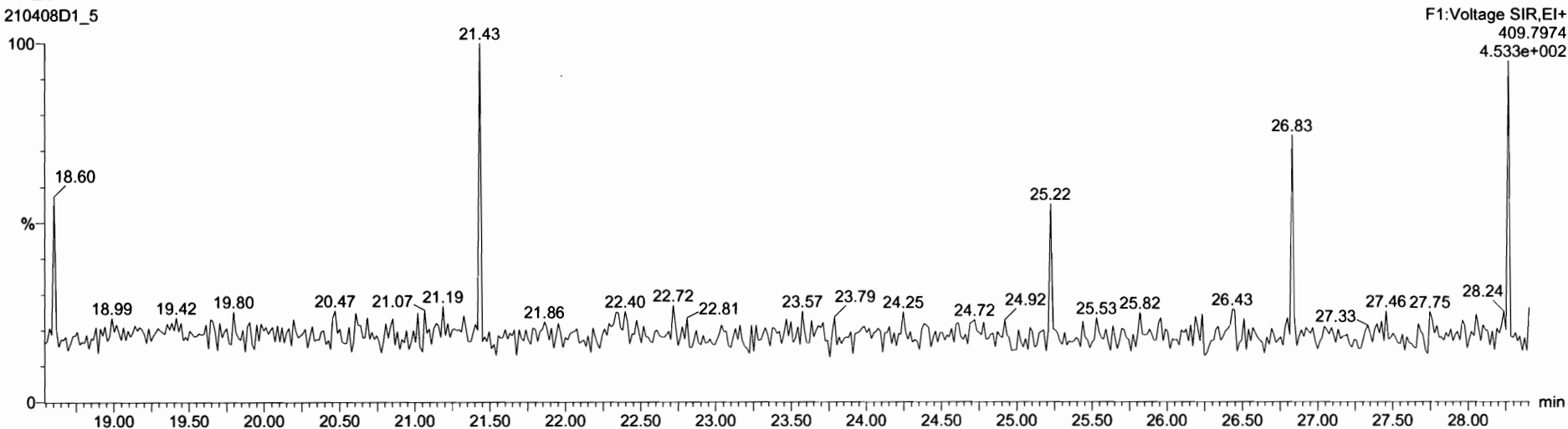


210408D1\_5



DPE6

210408D1\_5



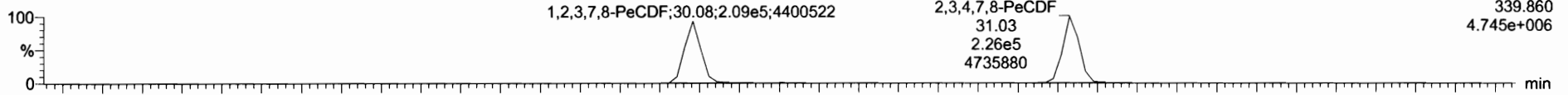
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

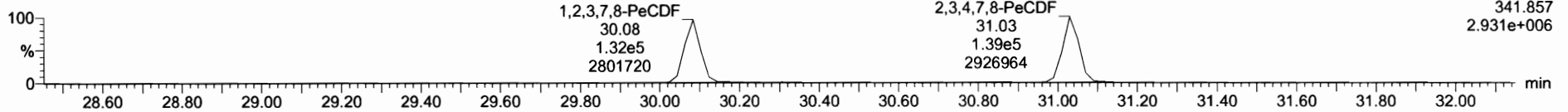
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**1,2,3,7,8-PeCDF**

210408D1\_5

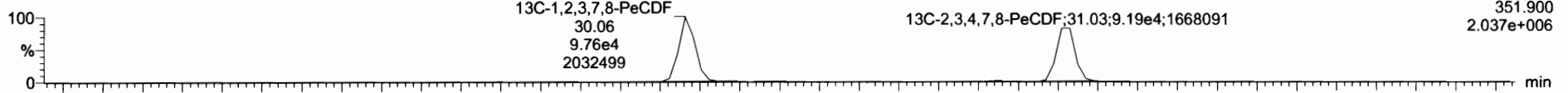


210408D1\_5

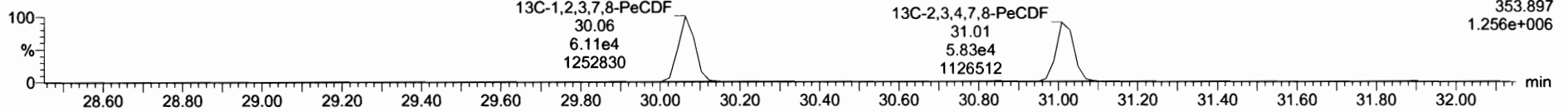


**13C-1,2,3,7,8-PeCDF**

210408D1\_5

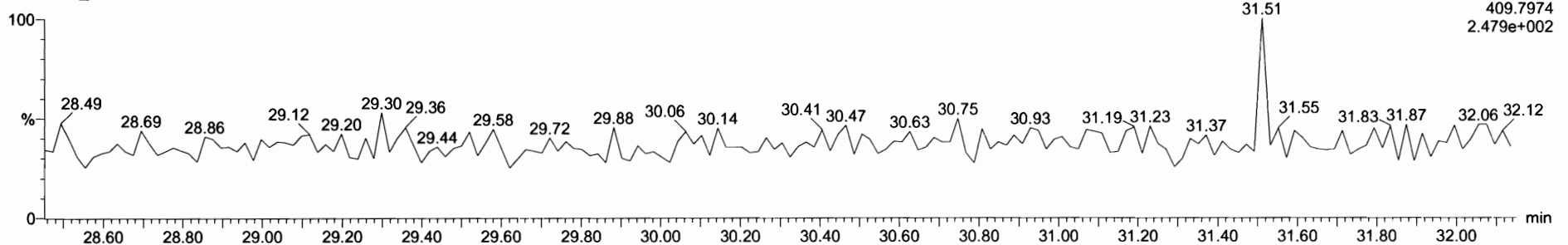


210408D1\_5



**DPE2**

210408D1\_5





Dataset: Untitled

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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

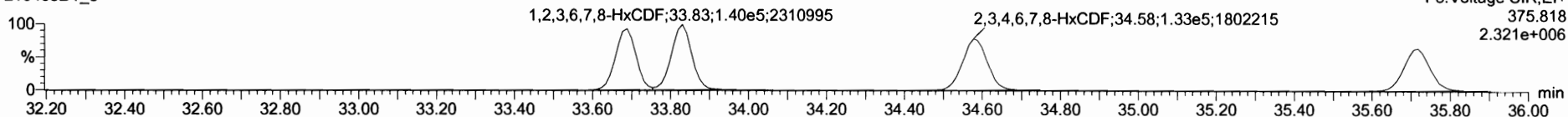
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### 1,2,3,4,7,8-HxCDF

210408D1\_5

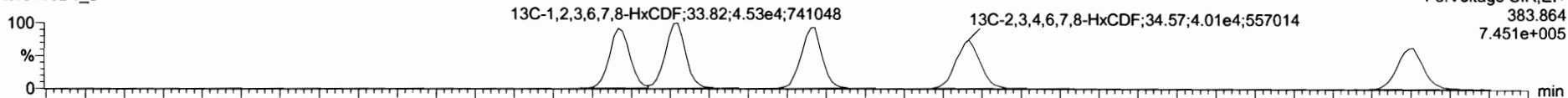


210408D1\_5

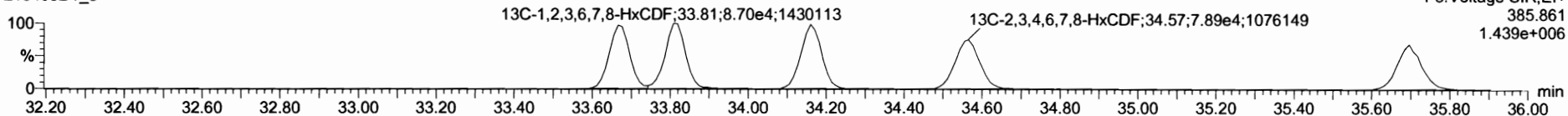


### 13C-1,2,3,4,7,8-HxCDF

210408D1\_5

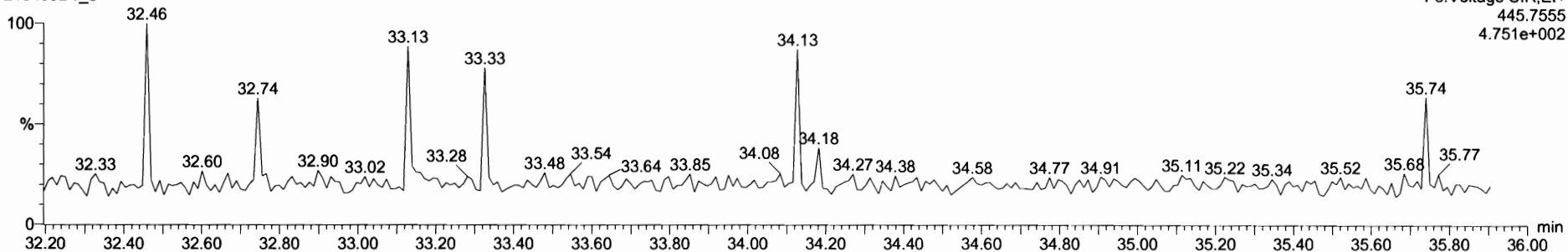


210408D1\_5



### DPE3

210408D1\_5



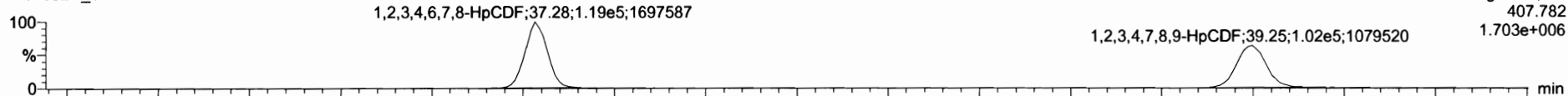
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

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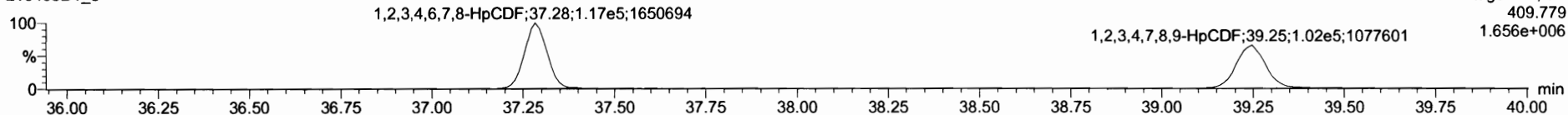
**1,2,3,4,6,7,8-HpCDF**

210408D1\_5



F4:Voltage SIR,EI+  
407.782  
1.703e+006

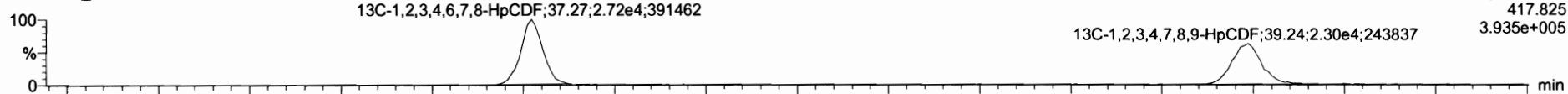
210408D1\_5



F4:Voltage SIR,EI+  
409.779  
1.656e+006

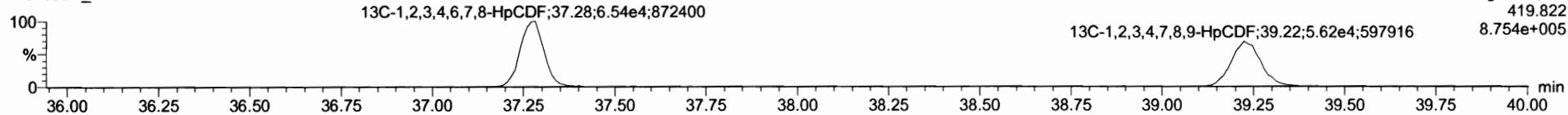
**13C-1,2,3,4,6,7,8-HpCDF**

210408D1\_5



F4:Voltage SIR,EI+  
417.825  
3.935e+005

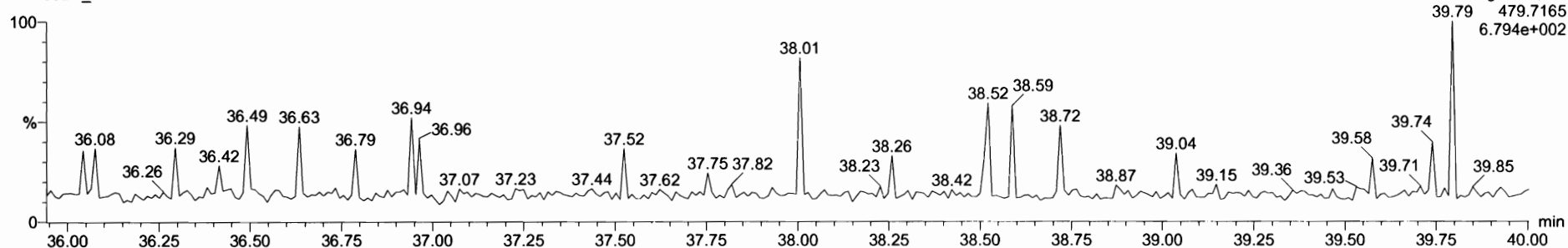
210408D1\_5



F4:Voltage SIR,EI+  
419.822  
8.754e+005

**DPE4**

210408D1\_5



F4:Voltage SIR,EI+  
39.79 479.7165  
6.794e+002

Dataset: Untitled

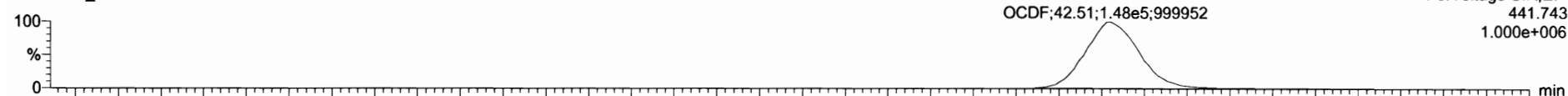
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

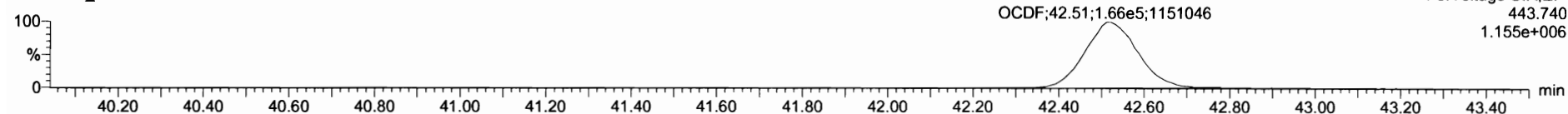
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**OCDF**

210408D1\_5

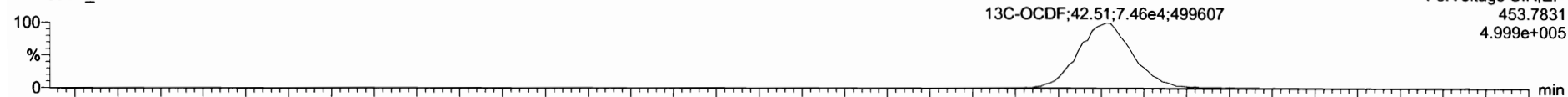


210408D1\_5

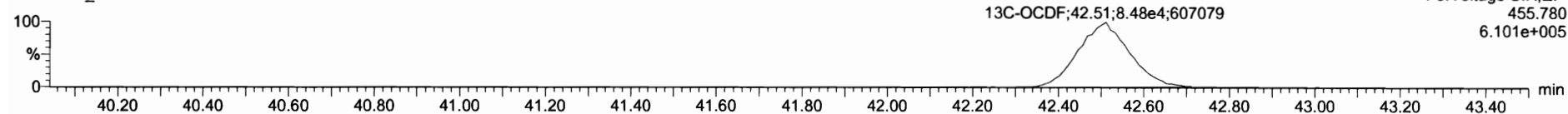


**13C-OCDF**

210408D1\_5

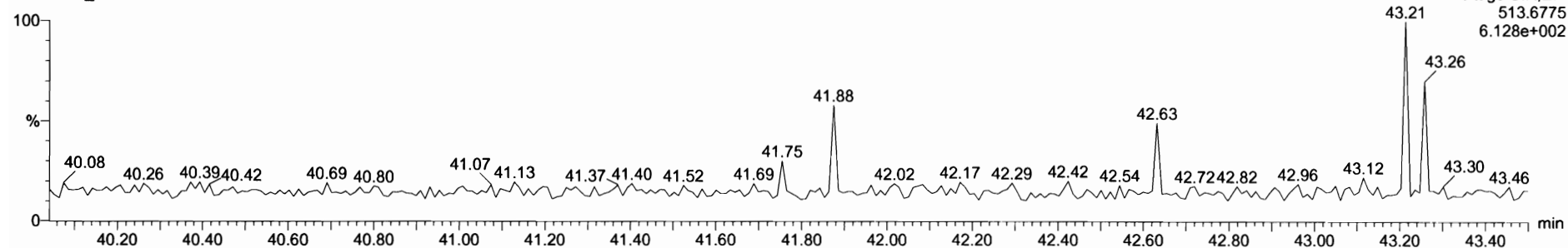


210408D1\_5



**DPE5**

210408D1\_5

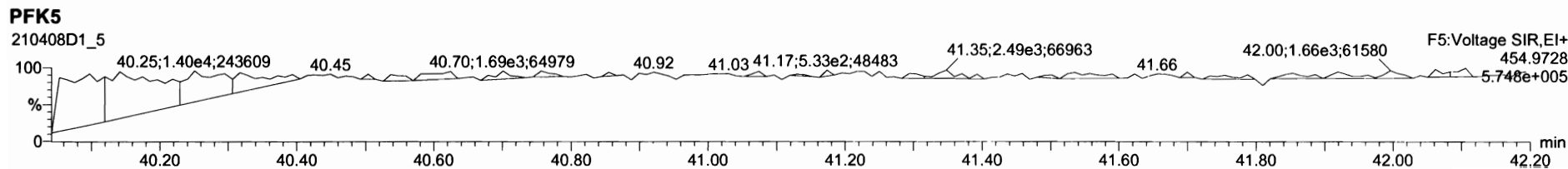
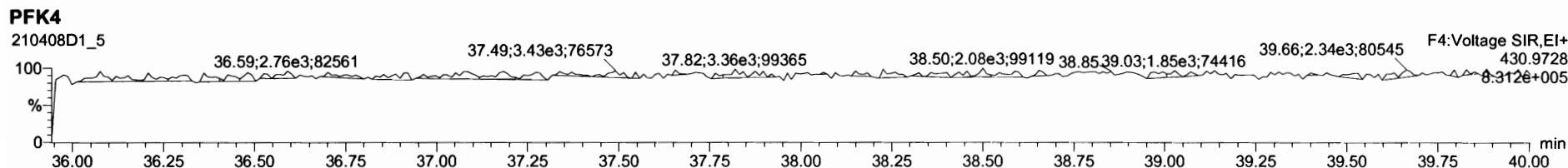
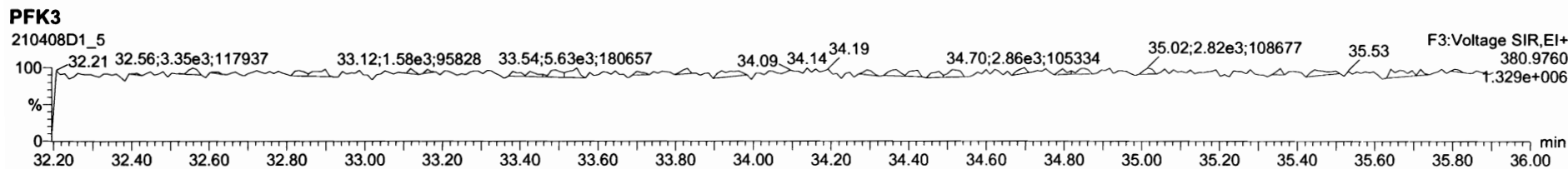
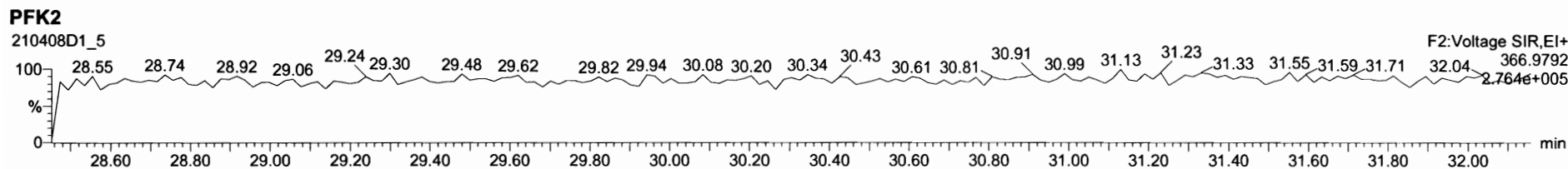
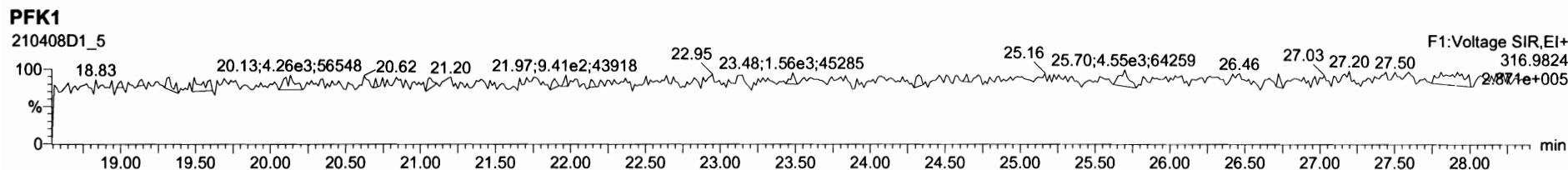


Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1\_5, Date: 08-Apr-2021, Time: 11:39:55, ID: ST210408D1-5 1613 CS4 21C0106, Description: 1613 CS4 21C0106



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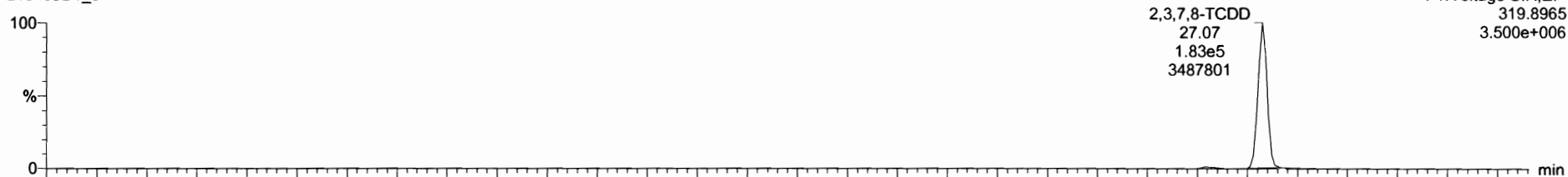
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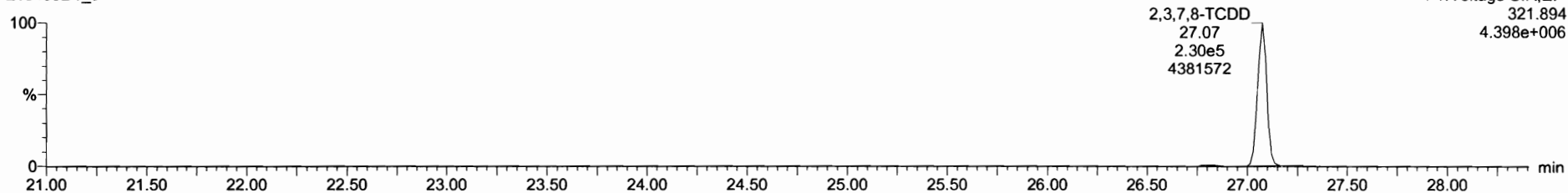
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**2,3,7,8-TCDD**

210408D1\_6

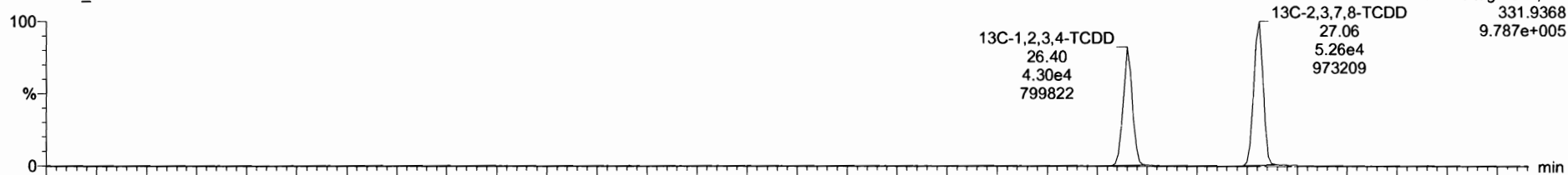


210408D1\_6

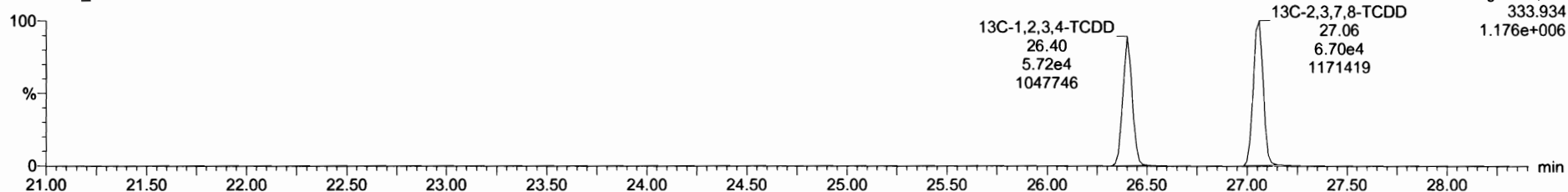


**13C-2,3,7,8-TCDD**

210408D1\_6



210408D1\_6



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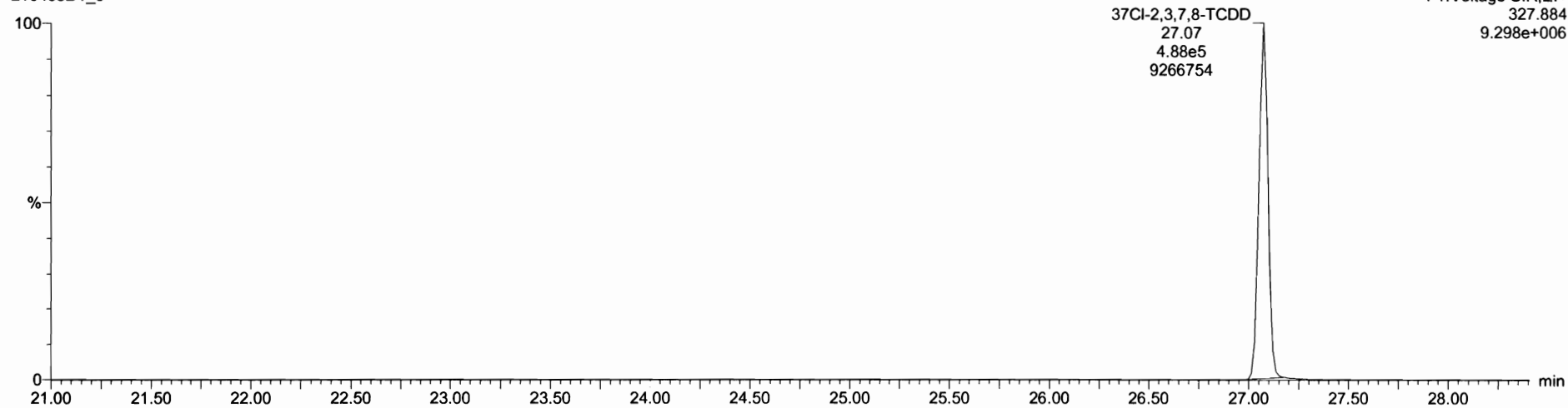
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

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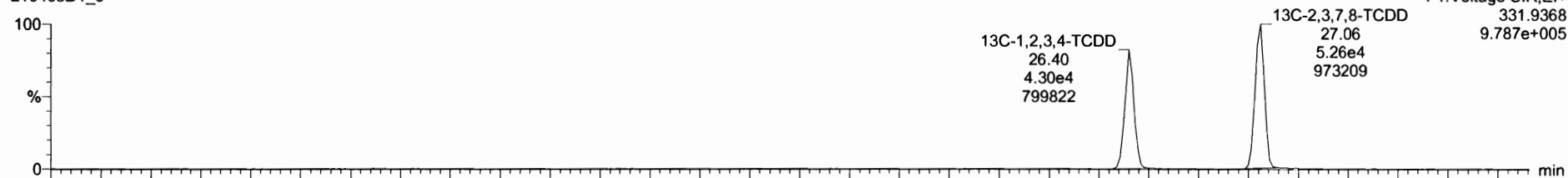
**37Cl-2,3,7,8-TCDD**

210408D1\_6

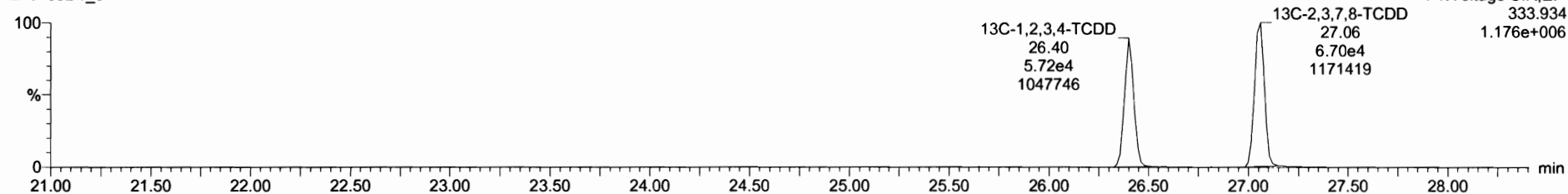


**13C-1,2,3,4-TCDD**

210408D1\_6



210408D1\_6



Dataset: Untitled

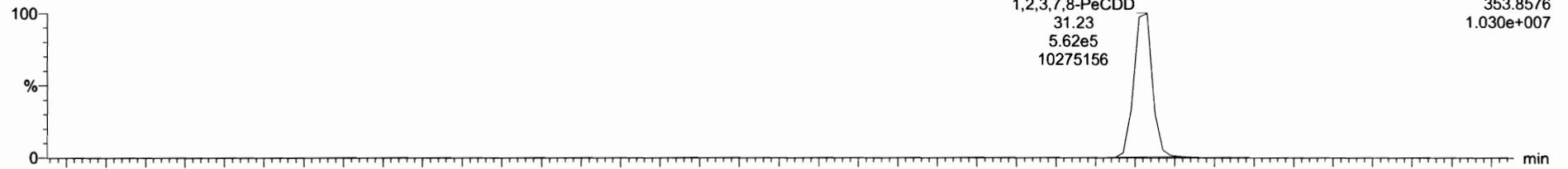
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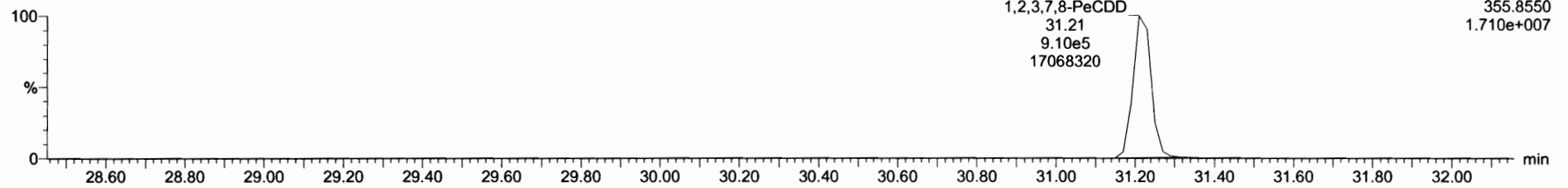
**1,2,3,7,8-PeCDD**

210408D1\_6



F2:Voltage SIR,EI+  
353.8576  
1.030e+007

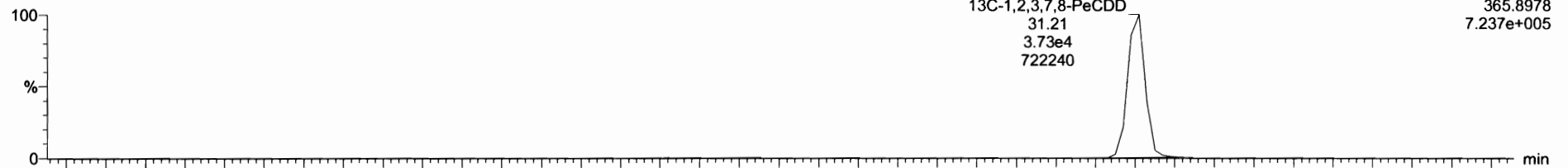
210408D1\_6



F2:Voltage SIR,EI+  
355.8550  
1.710e+007

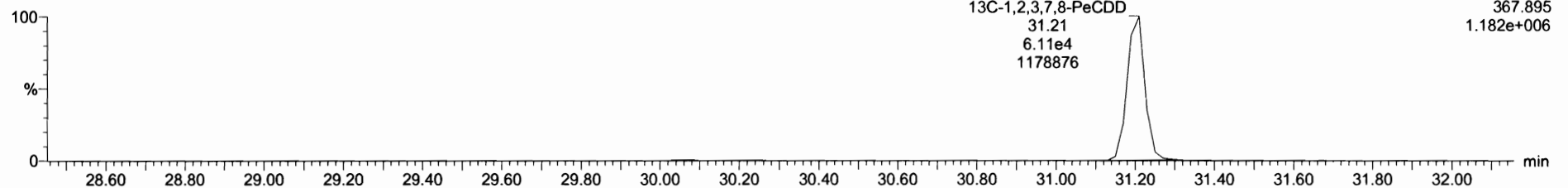
**13C-1,2,3,7,8-PeCDD**

210408D1\_6



F2:Voltage SIR,EI+  
365.8978  
7.237e+005

210408D1\_6



F2:Voltage SIR,EI+  
367.895  
1.182e+006

Dataset: Untitled

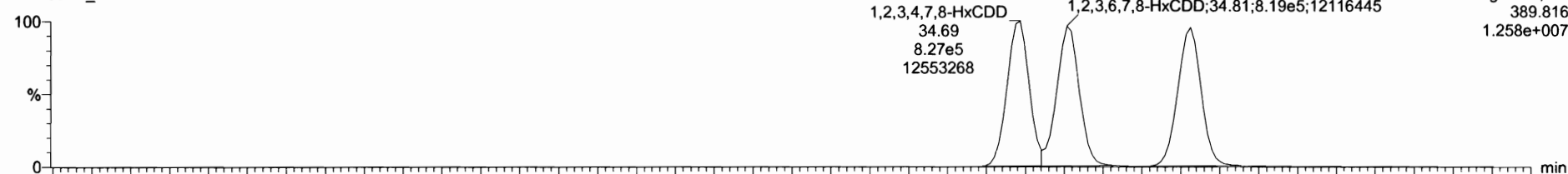
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

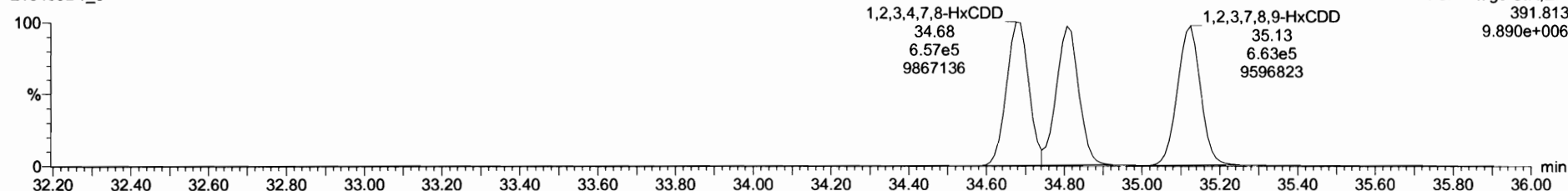
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**1,2,3,4,7,8-HxCDD**

210408D1\_6

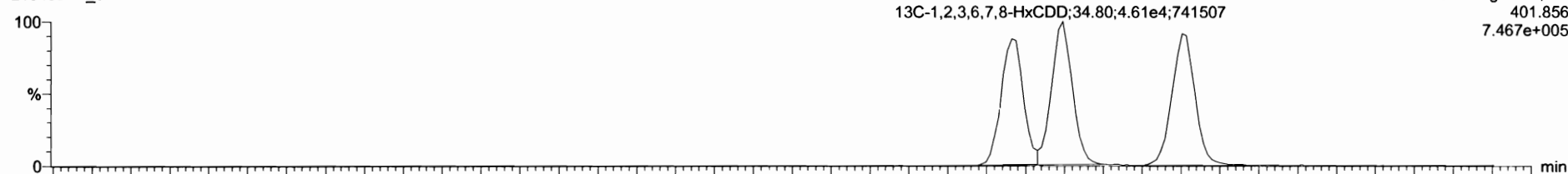


210408D1\_6

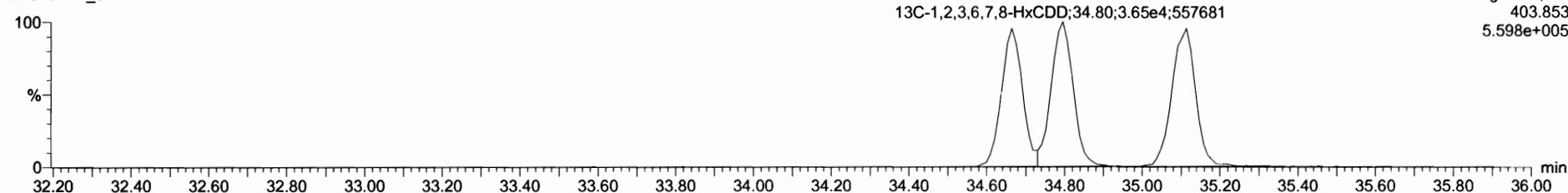


**13C-1,2,3,4,7,8-HxCDD**

210408D1\_6



210408D1\_6





Dataset: Untitled

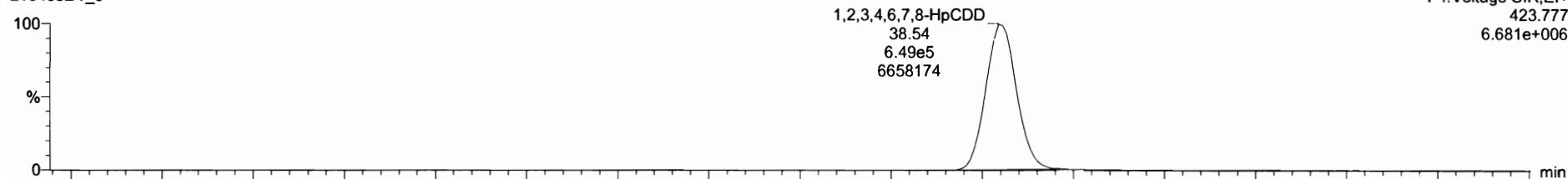
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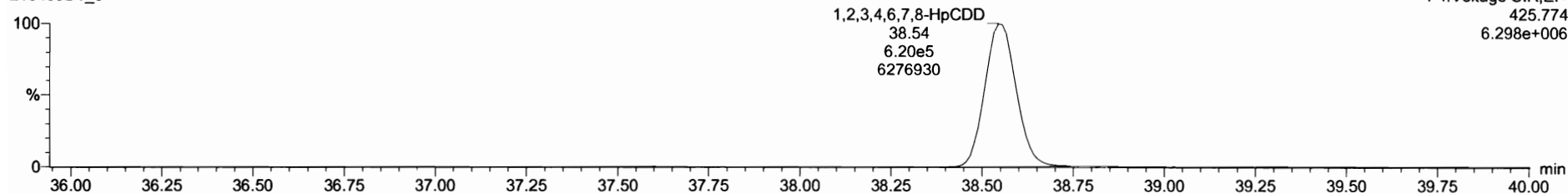
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**1,2,3,4,6,7,8-HpCDD**

210408D1\_6

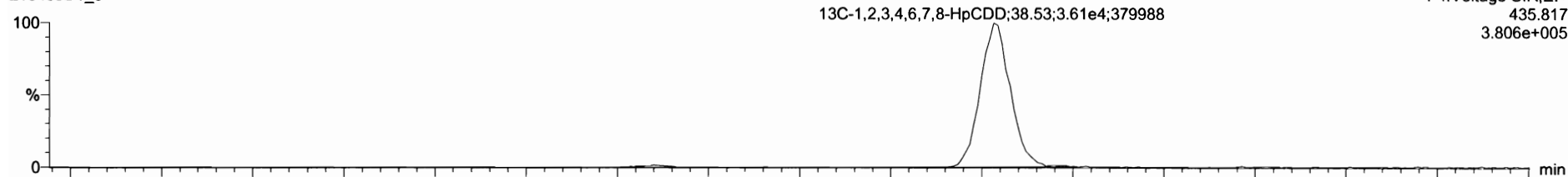


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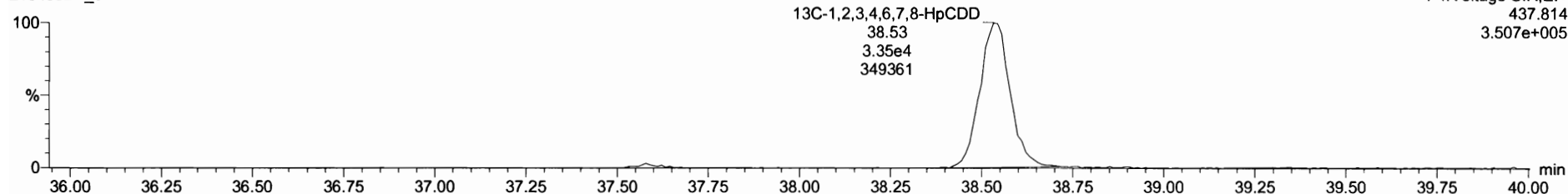


**13C-1,2,3,4,6,7,8-HpCDD**

210408D1\_6



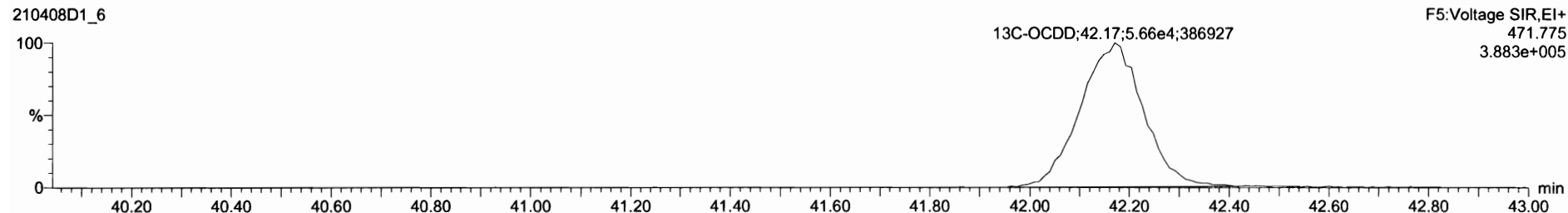
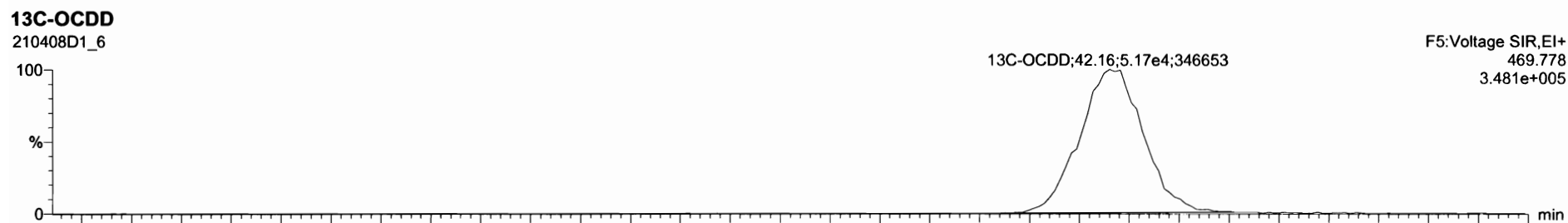
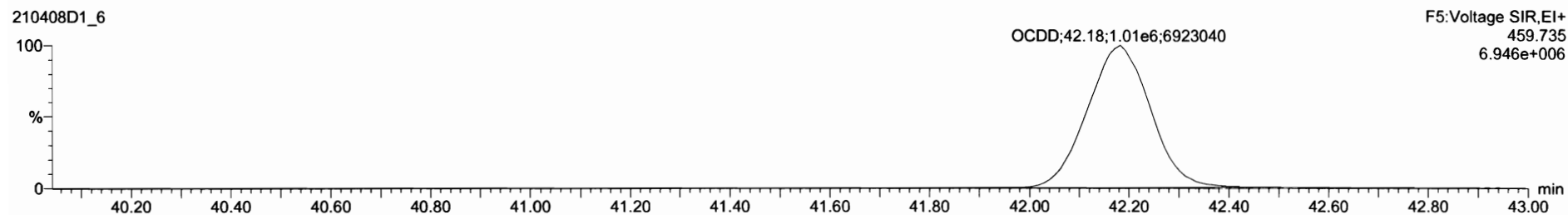
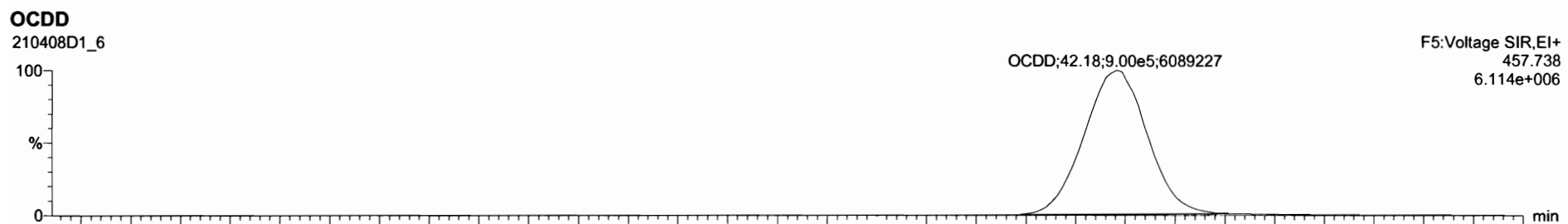
210408D1\_6



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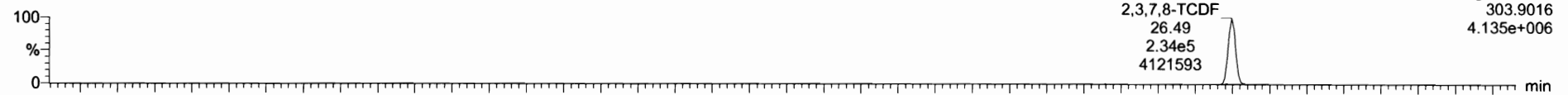
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

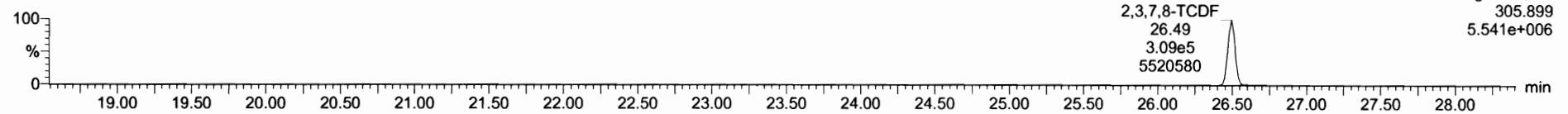
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**2,3,7,8-TCDF**

210408D1\_6

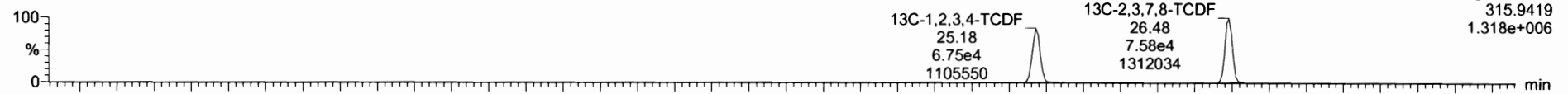


210408D1\_6

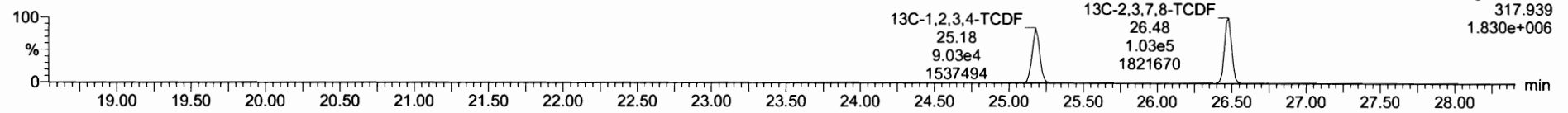


**13C-2,3,7,8-TCDF**

210408D1\_6

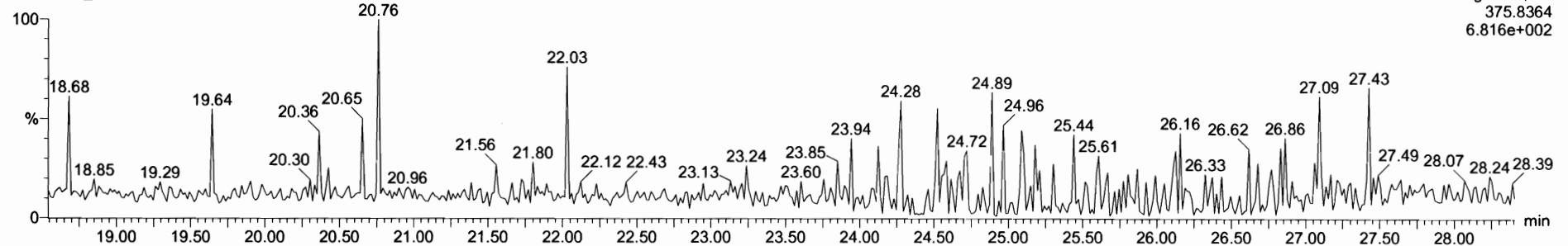


210408D1\_6



**DPE1**

210408D1\_6



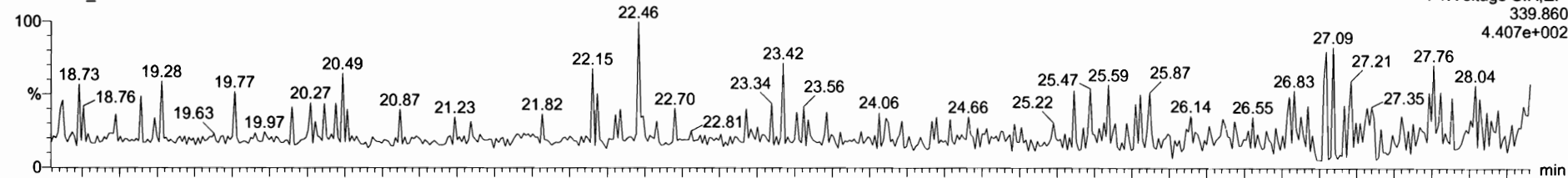
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

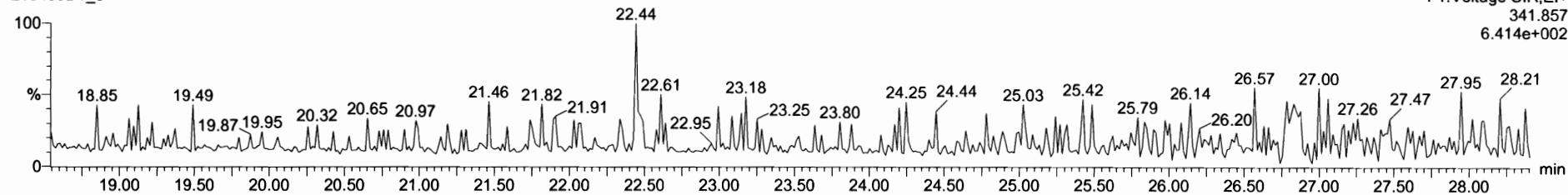
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210408D1\_6

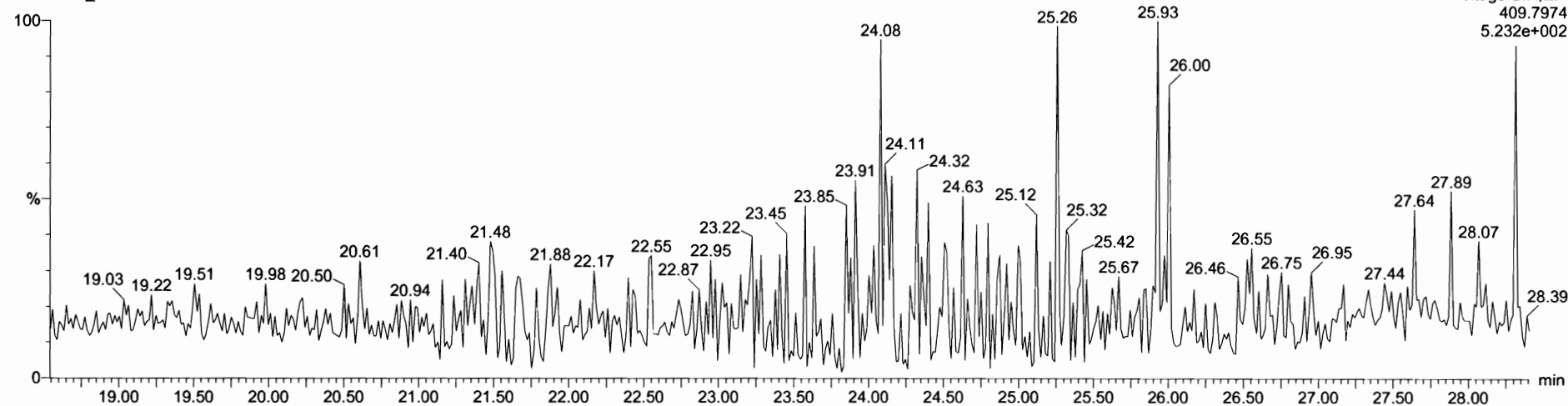


210408D1\_6



DPE6

210408D1\_6



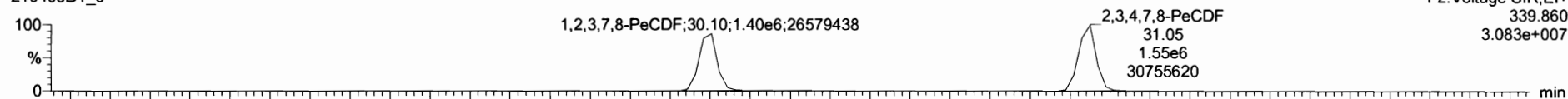
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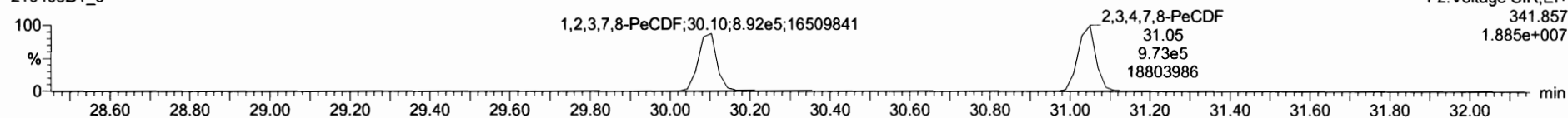
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**1,2,3,7,8-PeCDF**

210408D1\_6



210408D1\_6

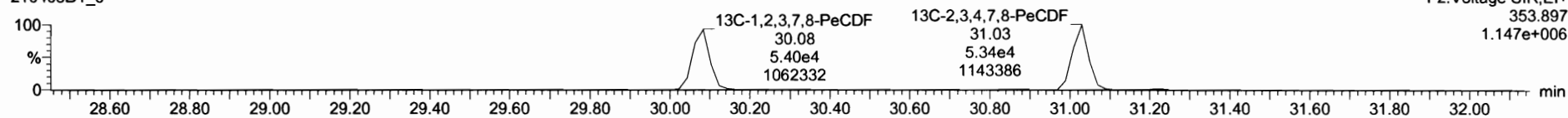


**13C-1,2,3,7,8-PeCDF**

210408D1\_6

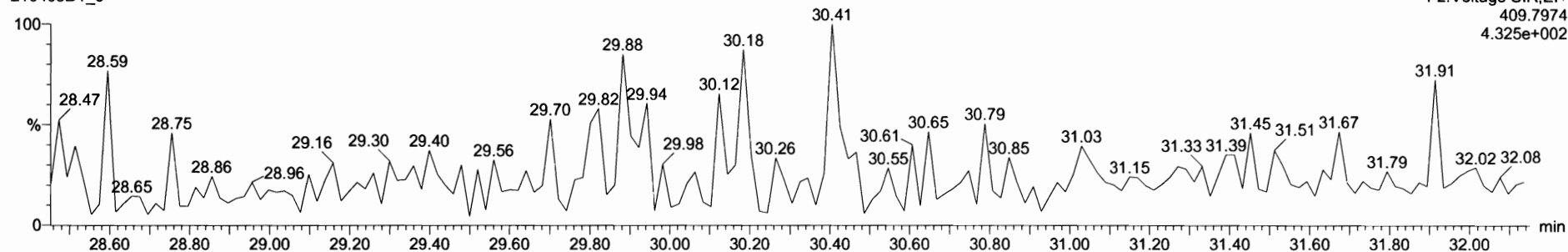


210408D1\_6



**DPE2**

210408D1\_6

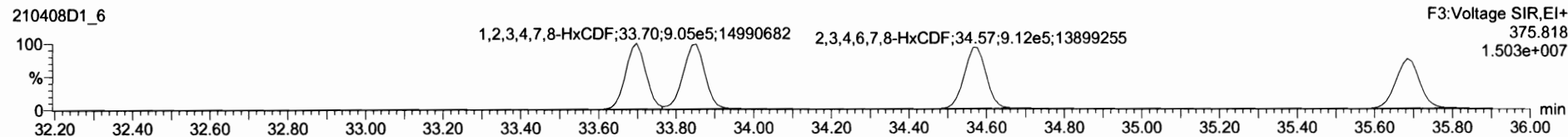
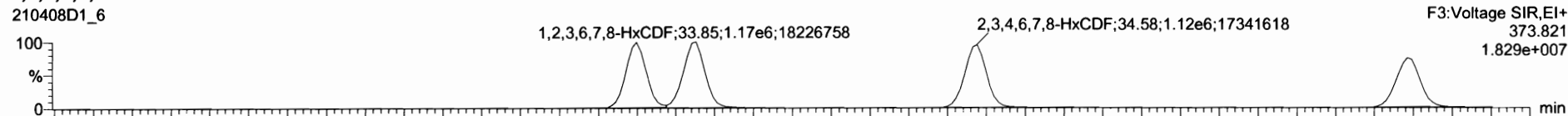


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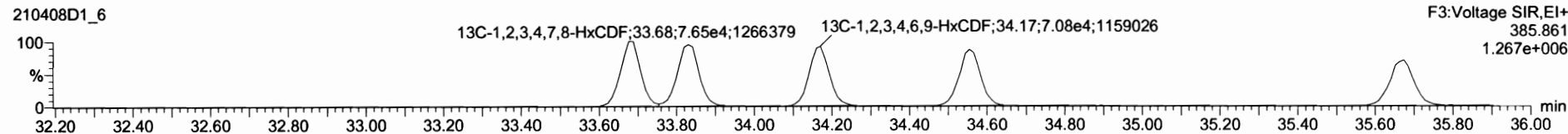
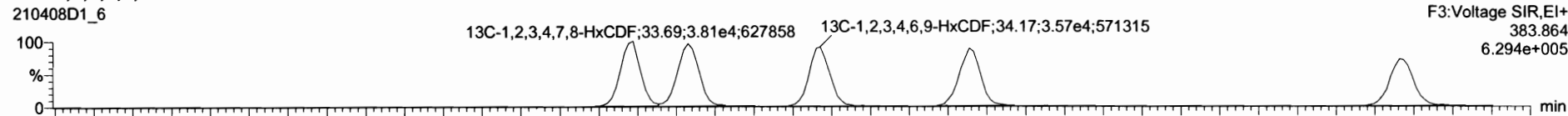
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

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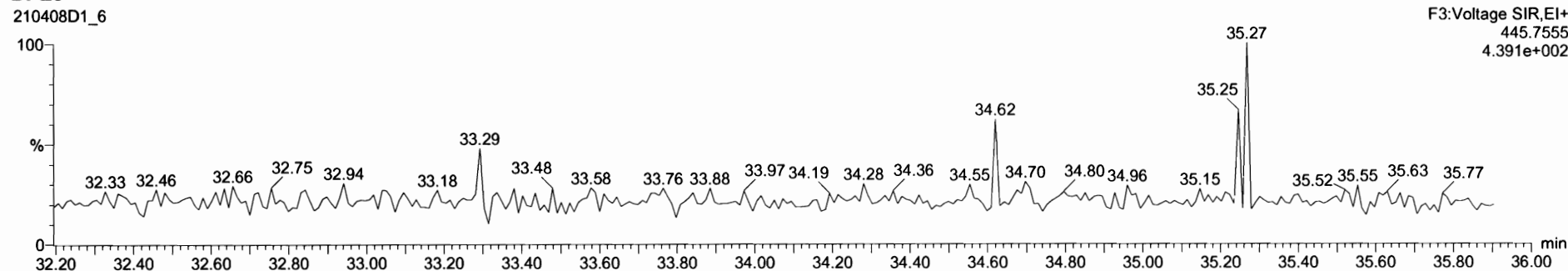
**1,2,3,4,7,8-HxCDF**



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



**DPE3**



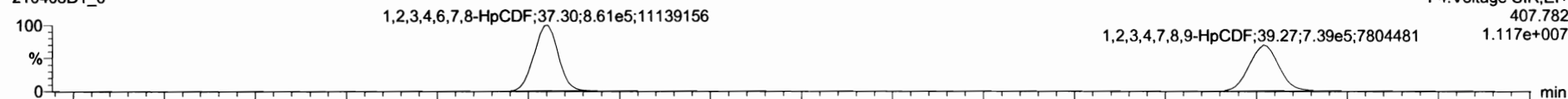
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

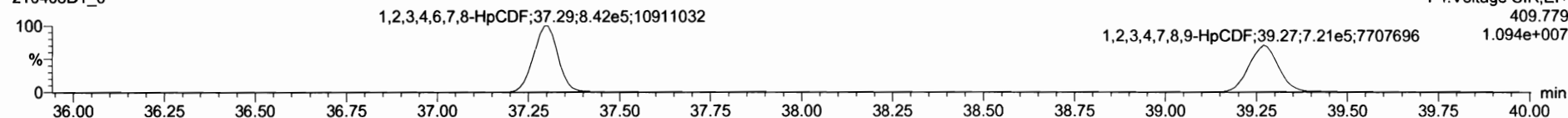
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**1,2,3,4,6,7,8-HpCDF**

210408D1\_6

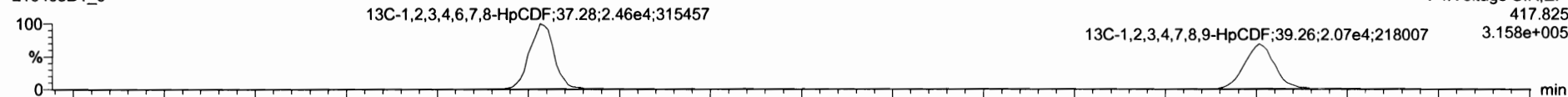


210408D1\_6

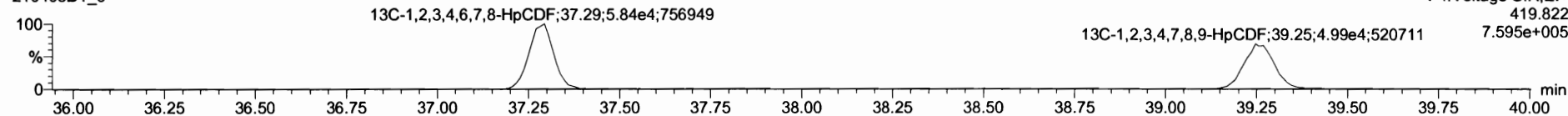


**13C-1,2,3,4,6,7,8-HpCDF**

210408D1\_6

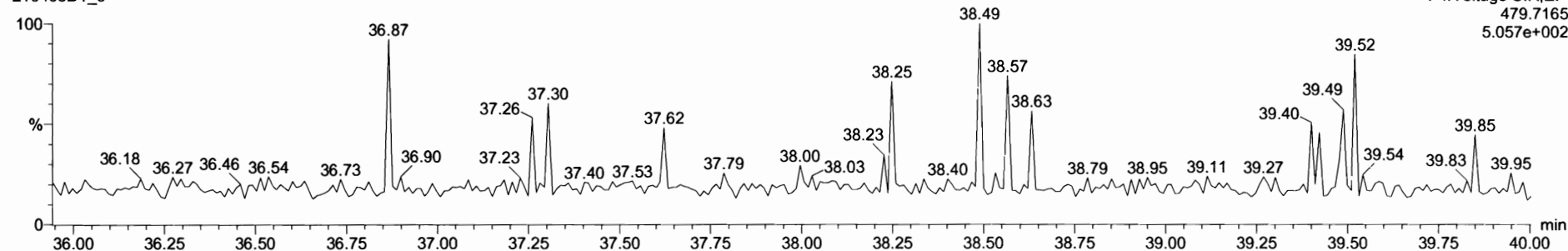


210408D1\_6



**DPE4**

210408D1\_6

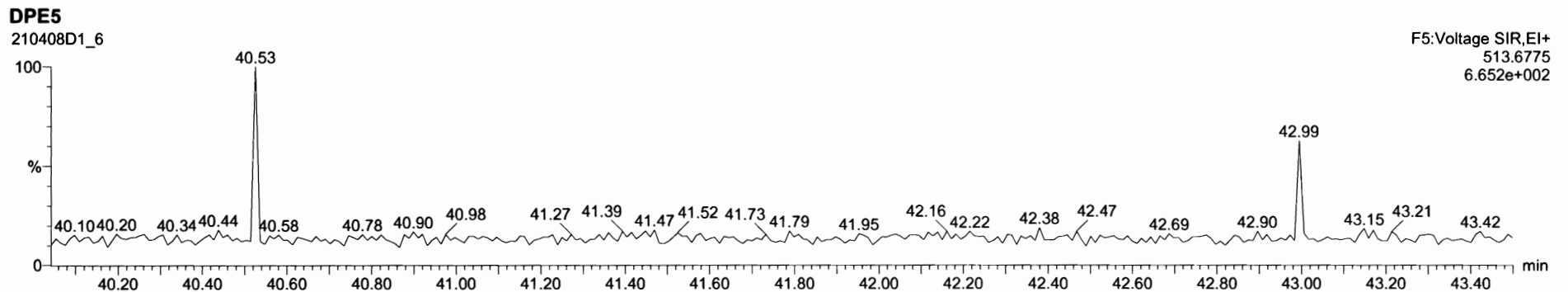
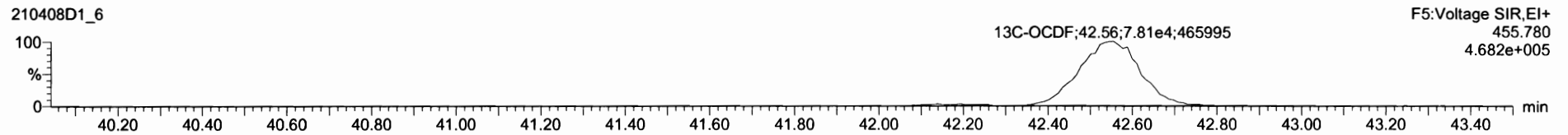
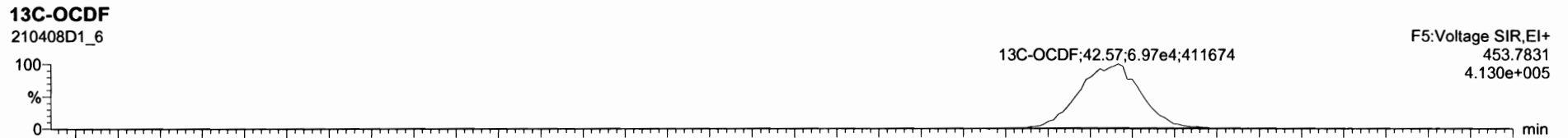
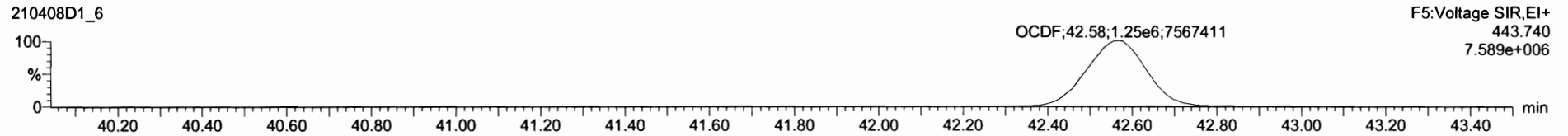
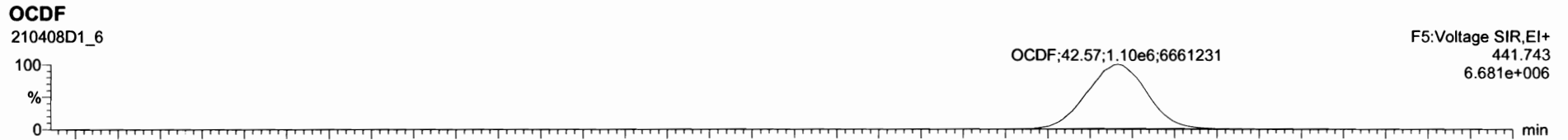


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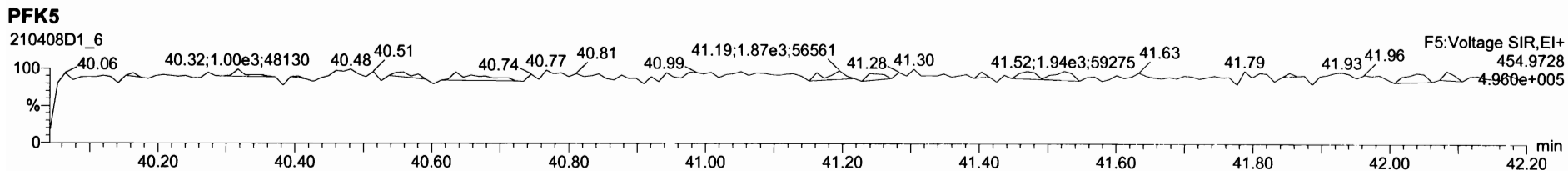
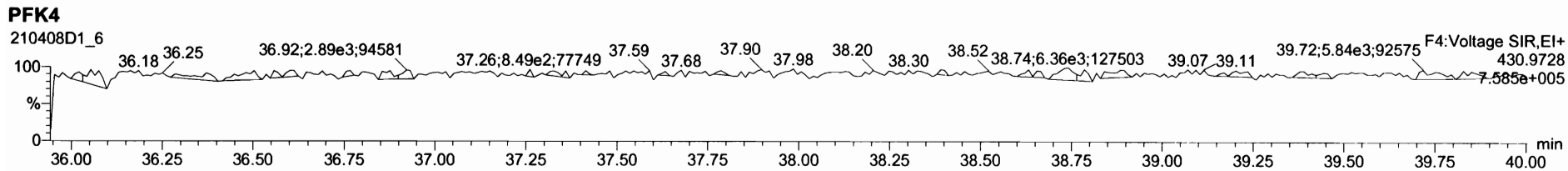
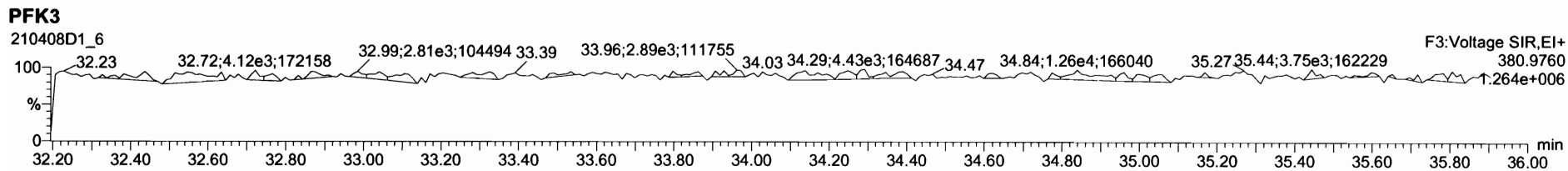
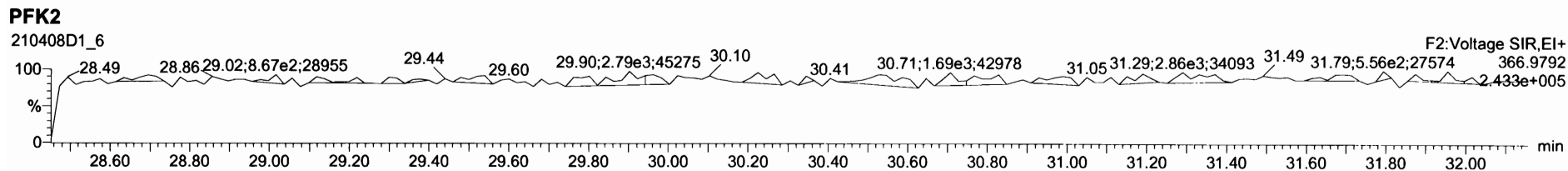
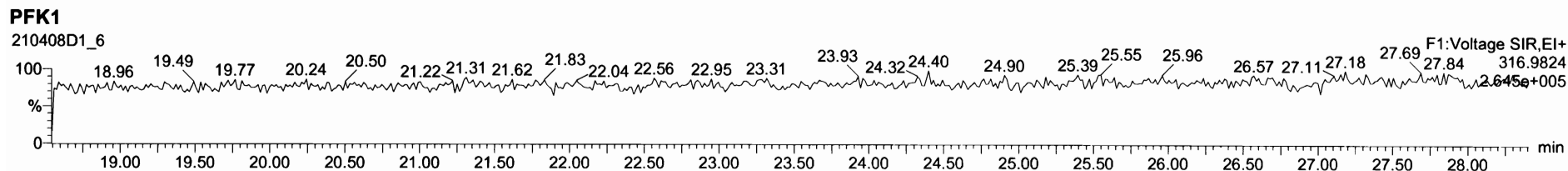




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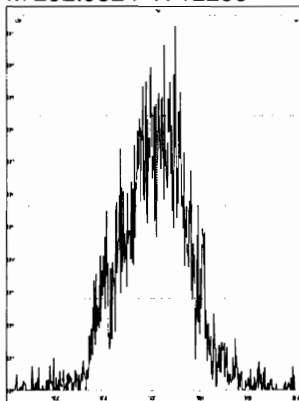
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

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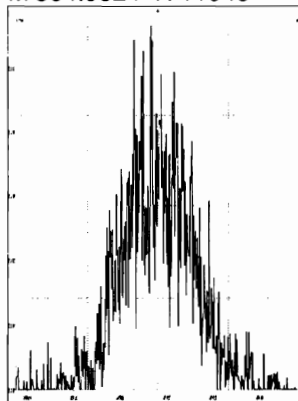


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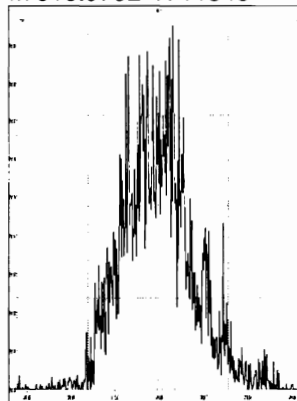
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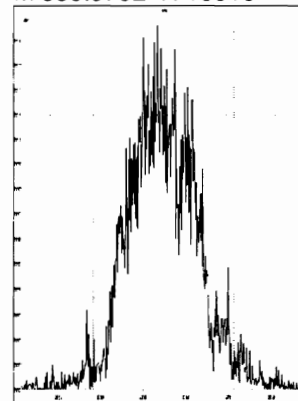
M 304.9824 R 11948



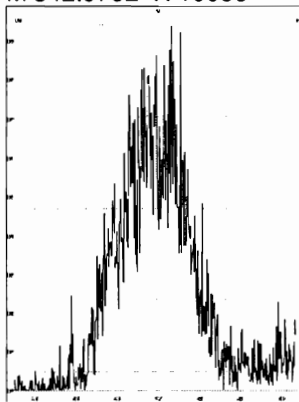
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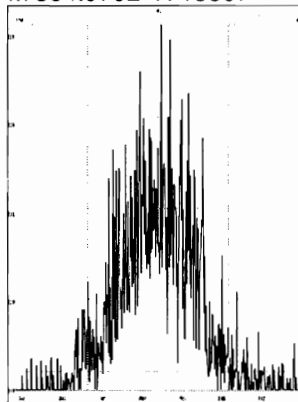
M 330.9792 R 10610



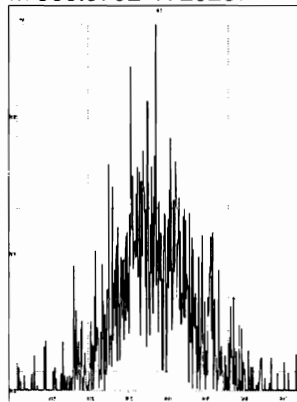
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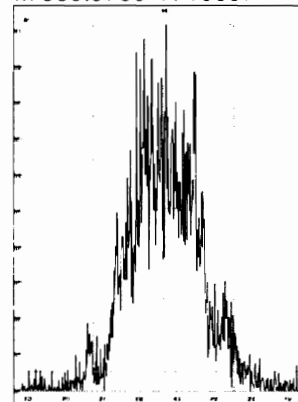
M 354.9792 R 13807



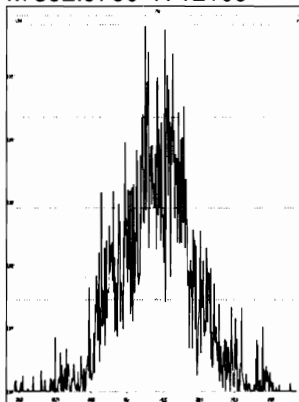
M 366.9792 R 20267



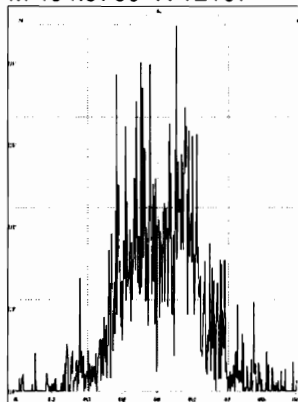
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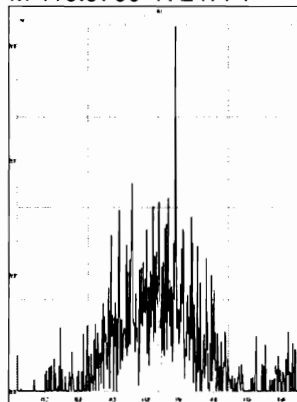
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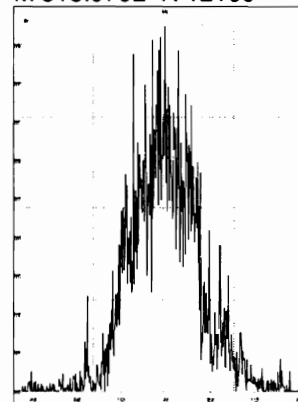
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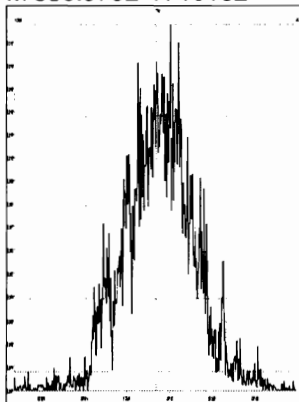
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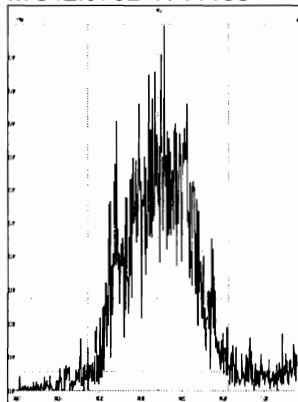
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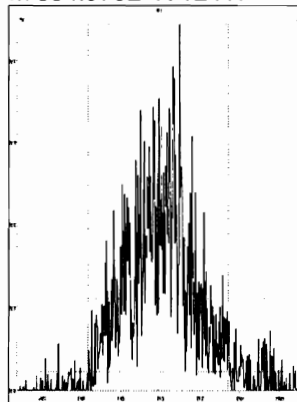
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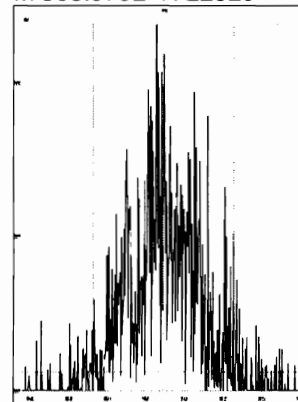
M 342.9792 R 11198



M 354.9792 R 12417

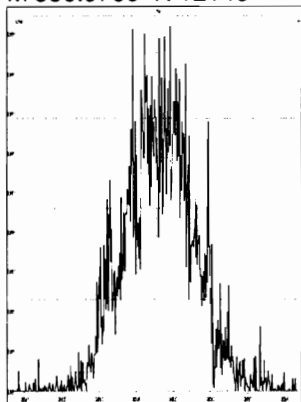


M 366.9792 R 22329

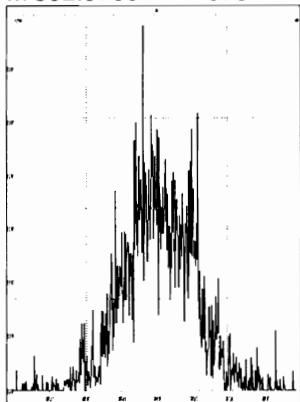


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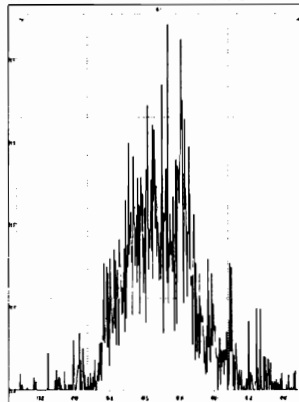
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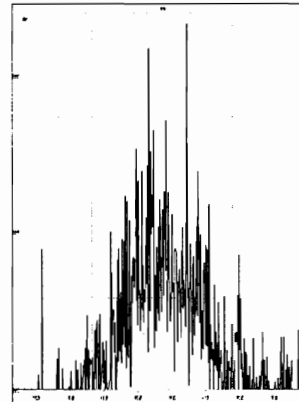
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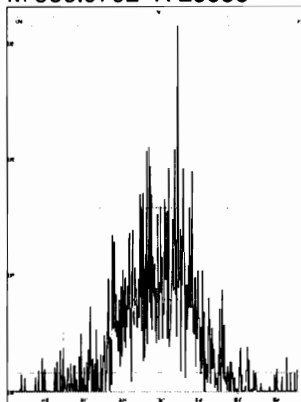
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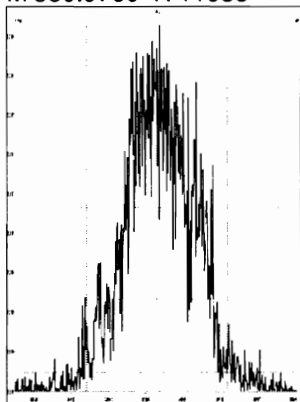
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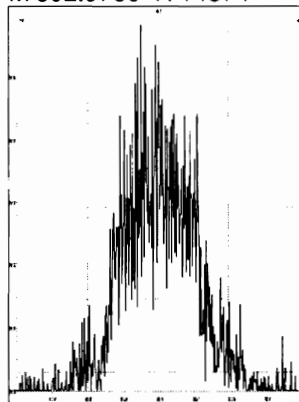
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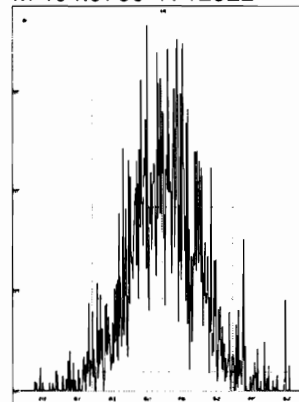
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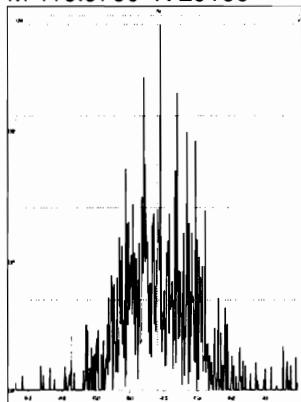
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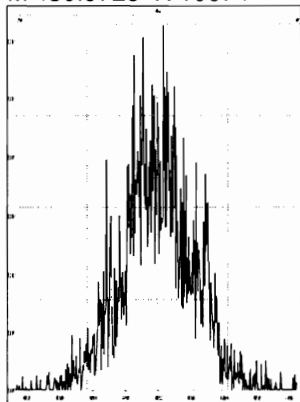
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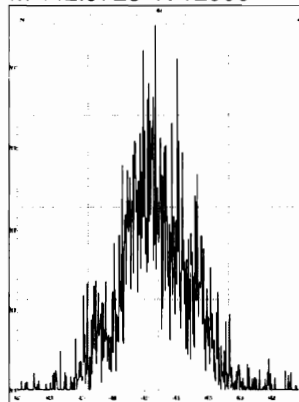
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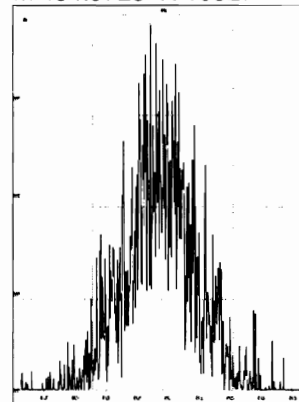
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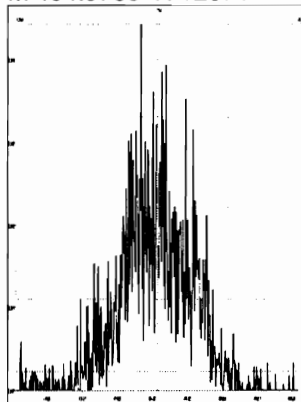
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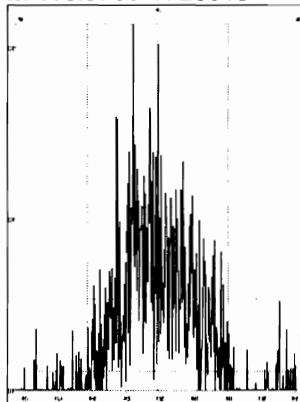
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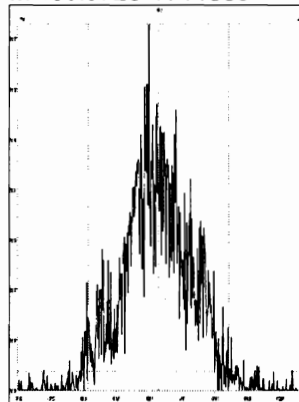
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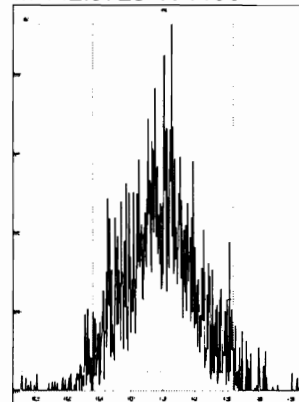
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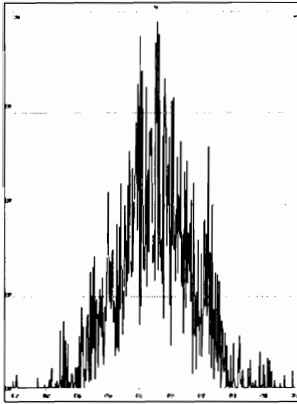
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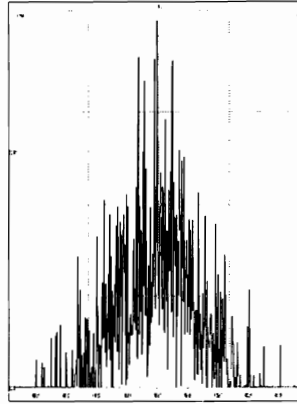
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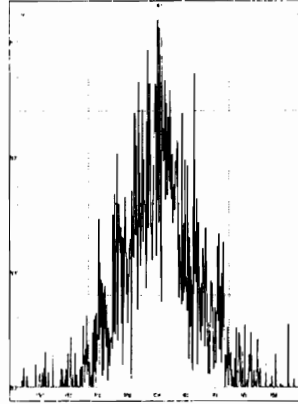
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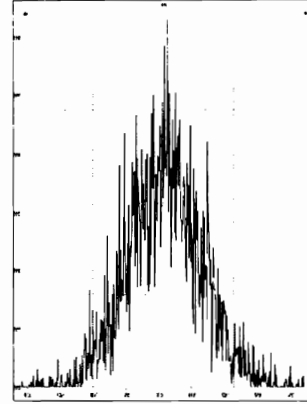
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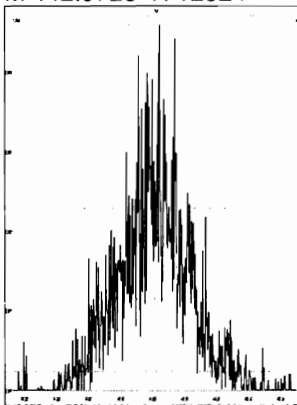
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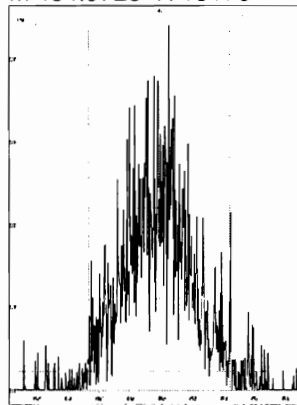
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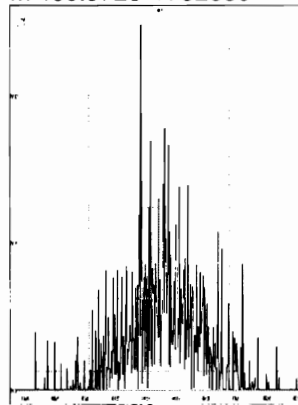
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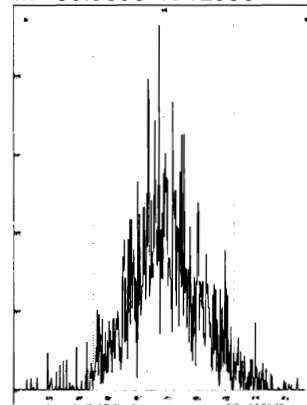
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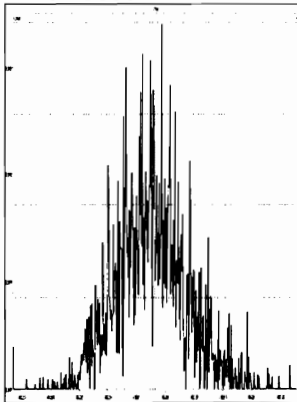
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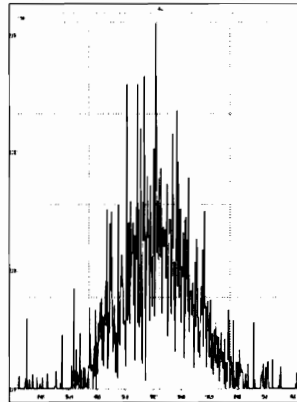
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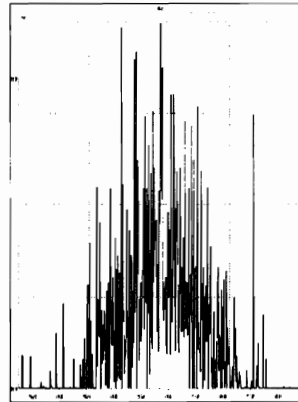
M 492.9696 R 14255



M 504.9696 R 11933



M 516.9697 R 35048



Dataset: U:\VG7.PRO\Results\210408D1\210408D1-7.qld

Last Altered: Friday, April 09, 2021 08:08:05 Pacific Daylight Time  
 Printed: Friday, April 09, 2021 14:36:23 Pacific Daylight Time

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 H 4-9-2021  
 OC 4/12/21

Method: C:\MassLynx\Default.pro\Methdb\1613\_rrt\_4-6-21.mdb 06 Apr 2021 09:18:07  
 Calibration: U:\VG7.PRO\CurveDB\ZB\_DIOXIN\_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210408D1\_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108, Task: ICAL210408D1

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1	2,3,7,8-TCDD	1.18e4	0.79	NO	1.05	1.000	27.06	1.001	8.5525	85.5	0.0377	8.55
2	1,2,3,7,8-PeCDD	4.05e4	0.64	NO	0.881	1.000	31.21	1.000	45.467	90.9	0.0895	45.5
3	1,2,3,4,7,8-HxCDD	4.00e4	1.24	NO	1.14	1.000	34.67	1.000	46.900	93.8	0.231	46.9
4	1,2,3,6,7,8-HxCDD	4.11e4	1.24	NO	1.01	1.000	34.81	1.000	49.637	99.3	0.239	49.6
5	1,2,3,7,8,9-HxCDD	4.02e4	1.23	NO	1.02	1.000	35.11	1.000	45.272	90.5	0.237	45.3
6	1,2,3,4,6,7,8-HpCDD	3.33e4	1.04	NO	1.07	1.000	38.50	1.001	45.191	90.4	0.375	45.2
7	OCDD	5.08e4	0.92	NO	1.00	1.000	42.18	1.000	95.903	95.9	0.623	95.9
8	2,3,7,8-TCDF	1.62e4	0.77	NO	0.864	1.000	26.49	1.001	9.1890	91.9	0.0452	9.19
9	1,2,3,7,8-PeCDF	6.51e4	1.65	NO	0.948	1.000	30.08	1.000	47.291	94.6	0.158	47.3
10	2,3,4,7,8-PeCDF	7.47e4	1.69	NO	1.04	1.000	31.05	1.001	51.097	102	0.131	51.1
11	1,2,3,4,7,8-HxCDF	5.89e4	1.25	NO	1.04	1.000	33.69	1.000	48.077	96.2	0.198	48.1
12	1,2,3,6,7,8-HxCDF	6.00e4	1.24	NO	1.07	1.000	33.84	1.001	46.573	93.1	0.189	46.6
13	2,3,4,6,7,8-HxCDF	5.83e4	1.26	NO	1.12	1.000	34.56	1.001	47.385	94.8	0.220	47.4
14	1,2,3,7,8,9-HxCDF	4.93e4	1.23	NO	1.10	1.000	35.67	1.000	44.666	89.3	0.255	44.7
15	1,2,3,4,6,7,8-HpCDF	4.84e4	1.04	NO	1.16	1.000	37.26	1.000	48.966	97.9	0.270	49.0
16	1,2,3,4,7,8,9-HpCDF	3.93e4	1.05	NO	1.19	1.000	39.26	1.000	46.646	93.3	0.448	46.6
17	OCDF	5.89e4	0.89	NO	0.909	1.000	42.52	1.000	90.008	90.0	0.503	90.0
18	13C-2,3,7,8-TCDD	1.32e5	0.77	NO	1.15	1.000	27.04	1.024	96.459	96.5	0.238	
19	13C-1,2,3,7,8-PeCDD	1.01e5	0.61	NO	0.887	1.000	31.21	1.182	95.164	95.2	0.183	
20	13C-1,2,3,4,7,8-HxCDD	7.45e4	1.29	NO	0.645	1.000	34.66	1.015	95.531	95.5	0.310	
21	13C-1,2,3,6,7,8-HxCDD	8.20e4	1.24	NO	0.717	1.000	34.80	1.019	94.584	94.6	0.279	
22	13C-1,2,3,7,8,9-HxCDD	8.70e4	1.25	NO	0.714	1.000	35.10	1.028	100.76	101	0.280	
23	13C-1,2,3,4,6,7,8-HpCDD	6.91e4	1.04	NO	0.583	1.000	38.48	1.126	97.950	98.0	0.640	
24	13C-OCDD	1.06e5	0.92	NO	0.451	1.000	42.17	1.235	193.79	96.9	0.364	
25	13C-2,3,7,8-TCDF	2.04e5	0.81	NO	1.09	1.000	26.48	1.003	100.30	100	0.179	
26	13C-1,2,3,7,8-PeCDF	1.45e5	1.60	NO	0.805	1.000	30.08	1.139	96.585	96.6	0.277	
27	13C-2,3,4,7,8-PeCDF	1.41e5	1.63	NO	0.792	1.000	31.03	1.175	95.208	95.2	0.282	
28	13C-1,2,3,4,7,8-HxCDF	1.17e5	0.53	NO	0.997	1.000	33.68	0.986	97.320	97.3	0.339	
29	13C-1,2,3,6,7,8-HxCDF	1.20e5	0.51	NO	1.03	1.000	33.82	0.990	96.391	96.4	0.328	
30	13C-2,3,4,6,7,8-HxCDF	1.10e5	0.49	NO	0.940	1.000	34.54	1.011	96.990	97.0	0.359	
31	13C-1,2,3,7,8,9-HxCDF	1.00e5	0.50	NO	0.852	1.000	35.66	1.044	97.479	97.5	0.396	
32	13C-1,2,3,4,6,7,8-HpCDF	8.53e4	0.43	NO	0.727	1.000	37.25	1.090	97.030	97.0	0.590	

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 90.0

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-7.qld

Last Altered: Friday, April 09, 2021 08:08:05 Pacific Daylight Time  
Printed: Friday, April 09, 2021 14:36:23 Pacific Daylight Time

Name: 210408D1\_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108, Task: ICAL210408D1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HpCDF	7.10e4	0.41	NO	0.608	1.000	39.25	1.149	96.560	96.6	0.706	
34	13C-OCDF	1.44e5	0.86	NO	0.631	1.000	42.52	1.245	188.78	94.4	0.277	
35	37Cl-2,3,7,8-TCDD	2.31e4			2.22	1.000	27.06	1.025	8.7187	87.2	0.0181	
36	13C-1,2,3,4-TCDD	1.20e5	0.75	NO	1.00	1.000	26.40	1.000	100.00	100	0.273	
37	13C-1,2,3,4-TCDF	1.87e5	0.79	NO	1.00	1.000	25.18	1.000	100.00	100	0.196	
38	13C-1,2,3,4,6,9-HxCDF	1.21e5	0.49	NO	1.00	1.000	34.16	1.000	100.00	100	0.338	

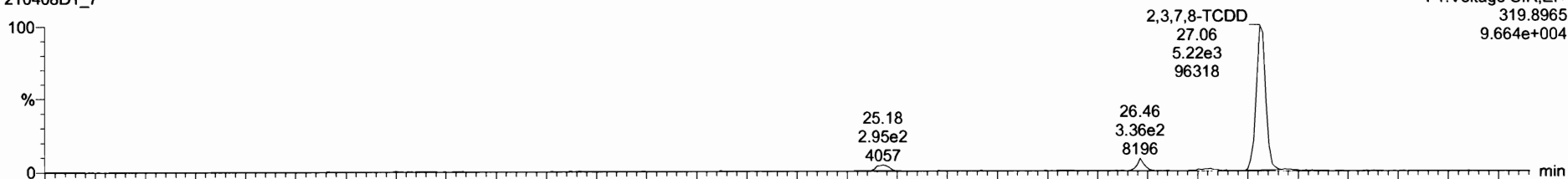
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

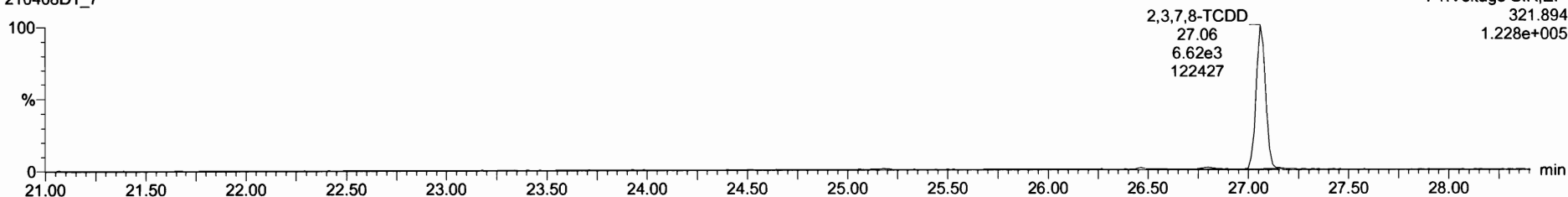
Name: 210408D1\_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

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

210408D1\_7

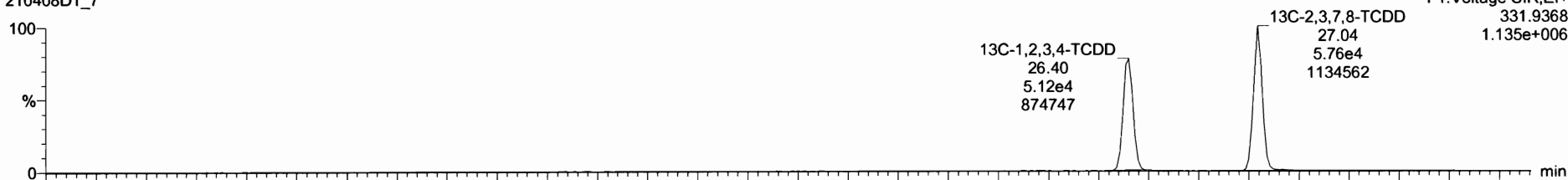


210408D1\_7

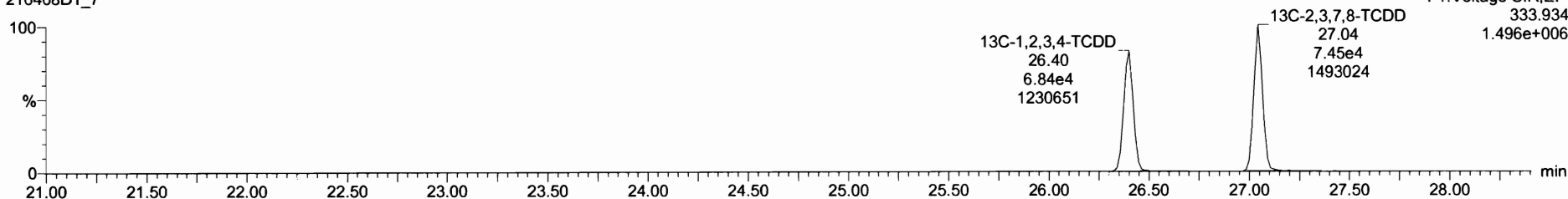


**13C-2,3,7,8-TCDD**

210408D1\_7



210408D1\_7



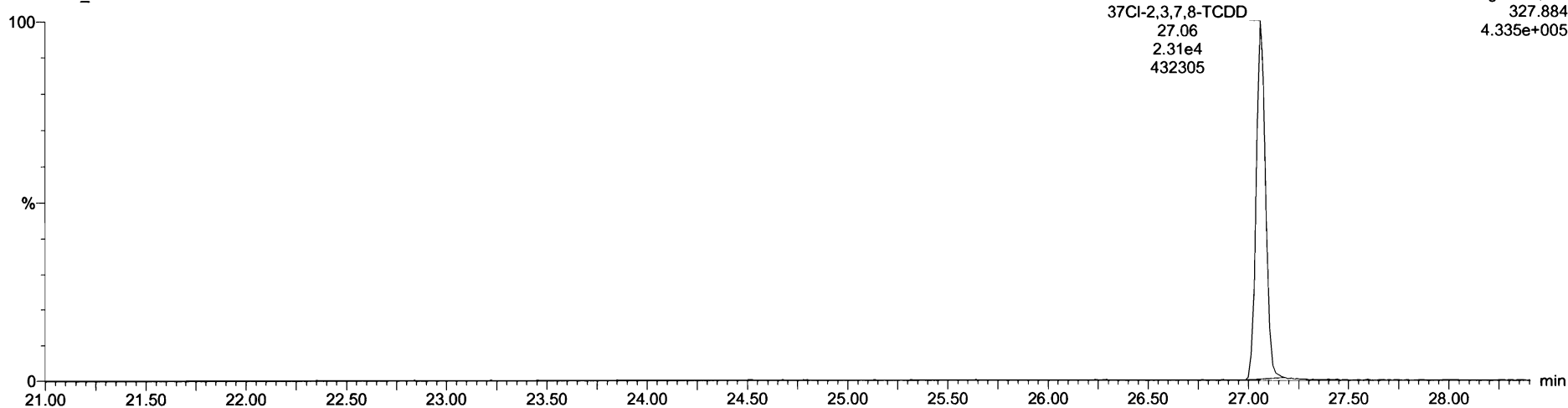
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1\_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

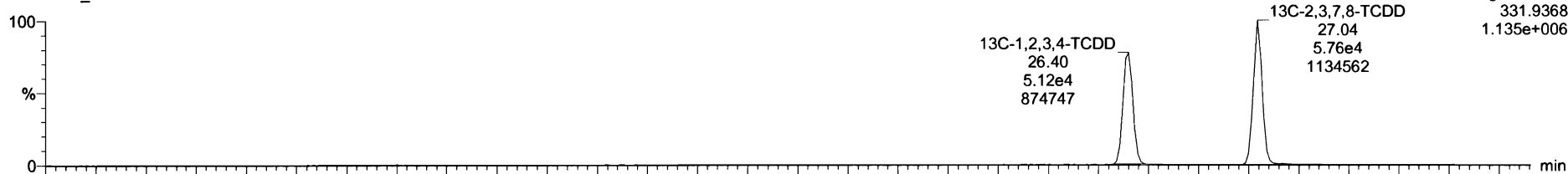
37Cl-2,3,7,8-TCDD

210408D1\_7

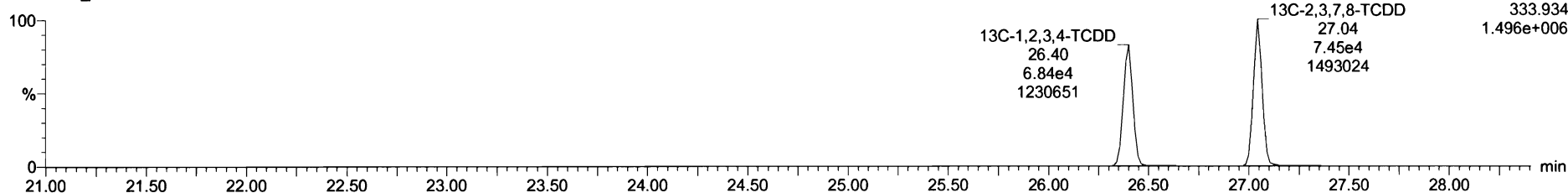


13C-1,2,3,4-TCDD

210408D1\_7



210408D1\_7





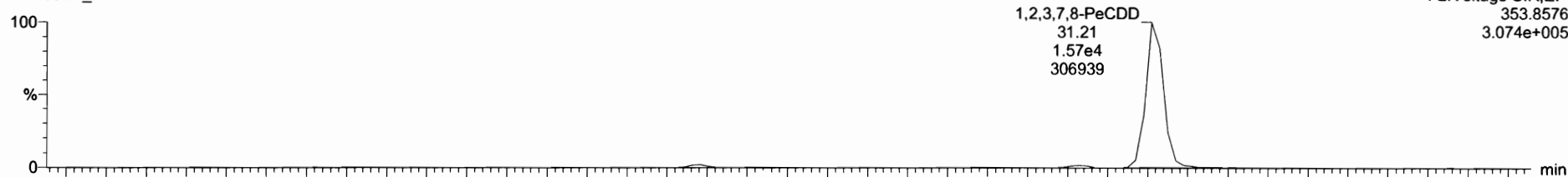
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1\_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

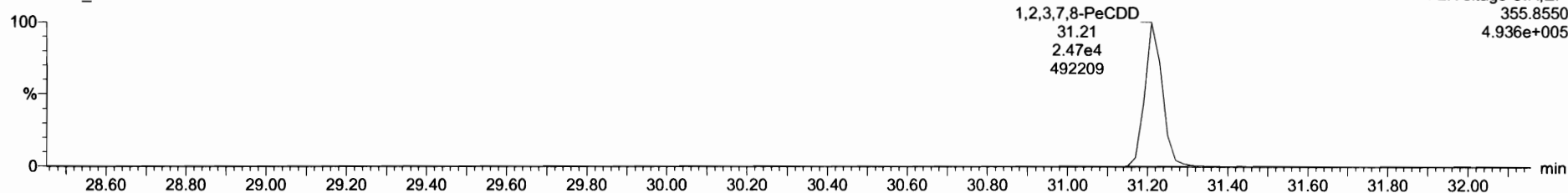
**1,2,3,7,8-PeCDD**

210408D1\_7



F2:Voltage SIR,EI+  
353.8576  
3.074e+005

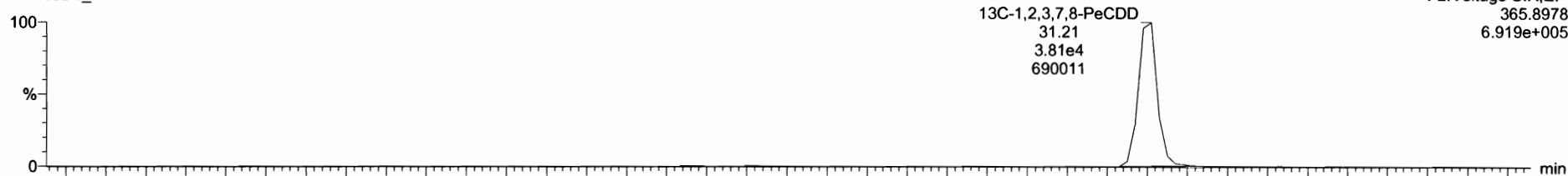
210408D1\_7



F2:Voltage SIR,EI+  
355.8550  
4.936e+005

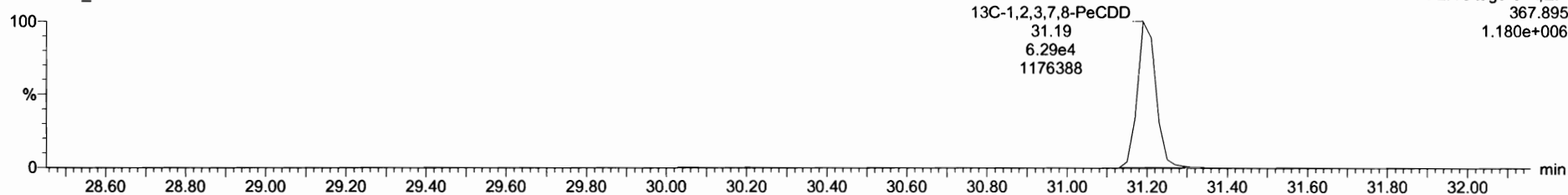
**13C-1,2,3,7,8-PeCDD**

210408D1\_7



F2:Voltage SIR,EI+  
365.8978  
6.919e+005

210408D1\_7



F2:Voltage SIR,EI+  
367.895  
1.180e+006

Dataset: Untitled

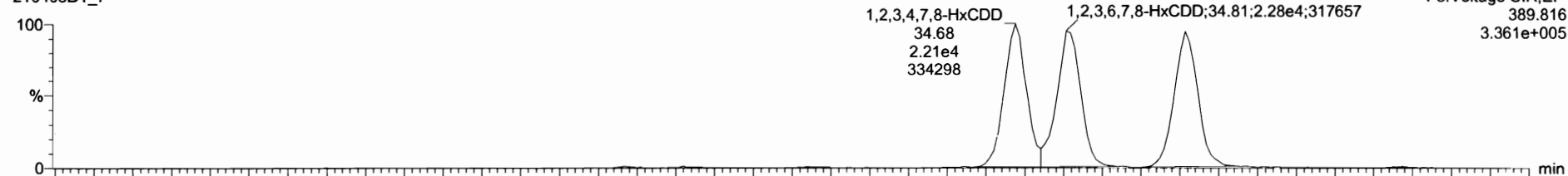
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

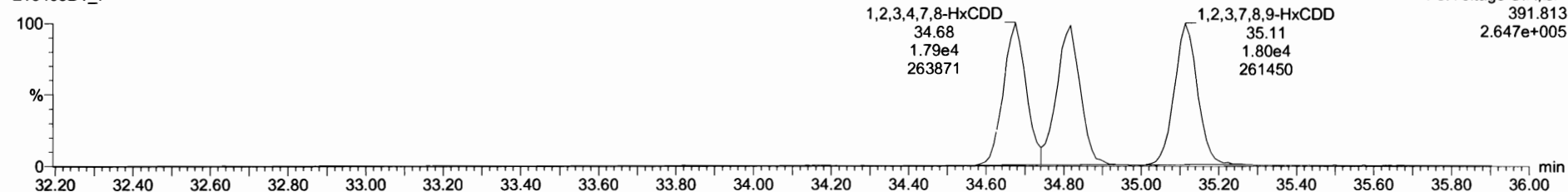
Name: 210408D1\_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

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

210408D1\_7

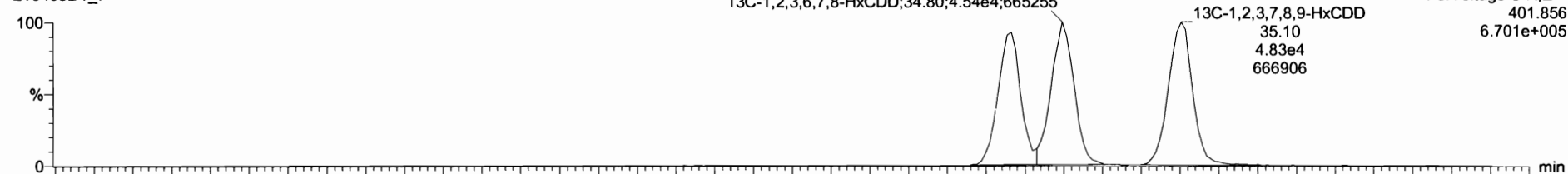


210408D1\_7

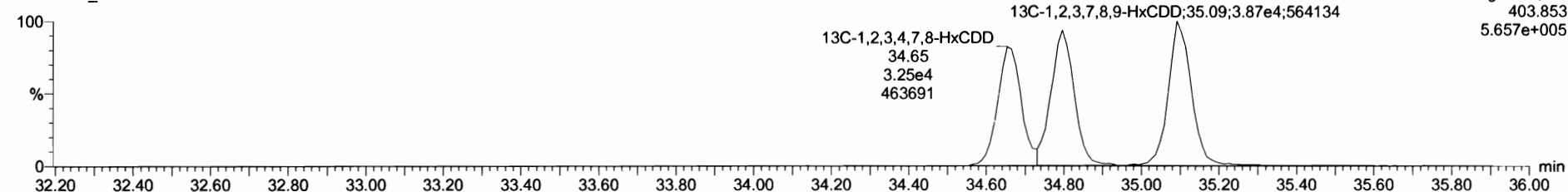


**13C-1,2,3,4,7,8-HxCDD**

210408D1\_7



210408D1\_7



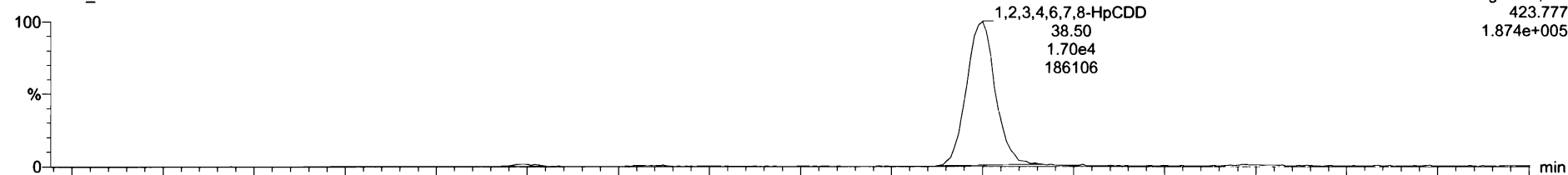
Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

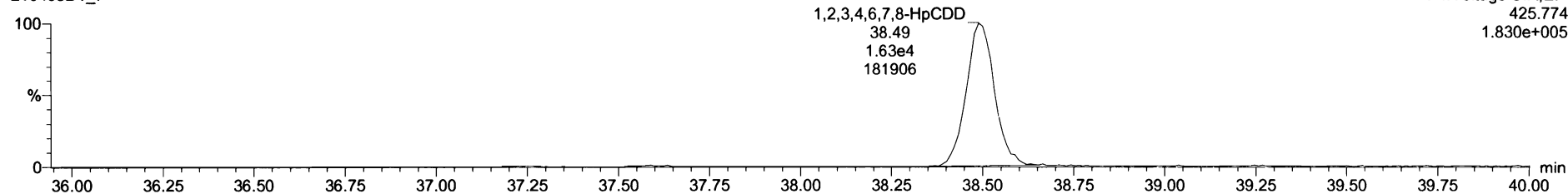
Name: 210408D1\_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

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

210408D1\_7

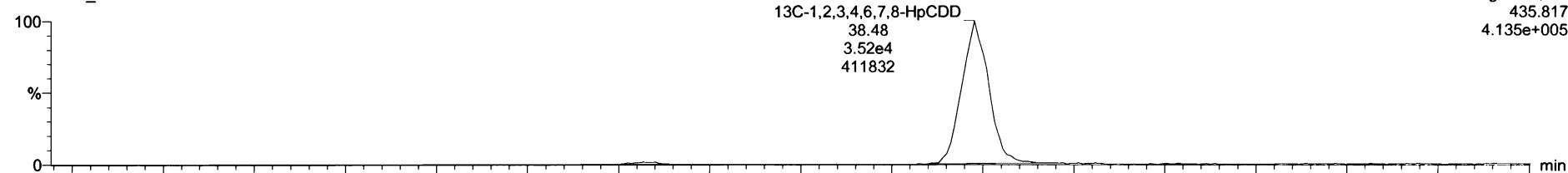


210408D1\_7

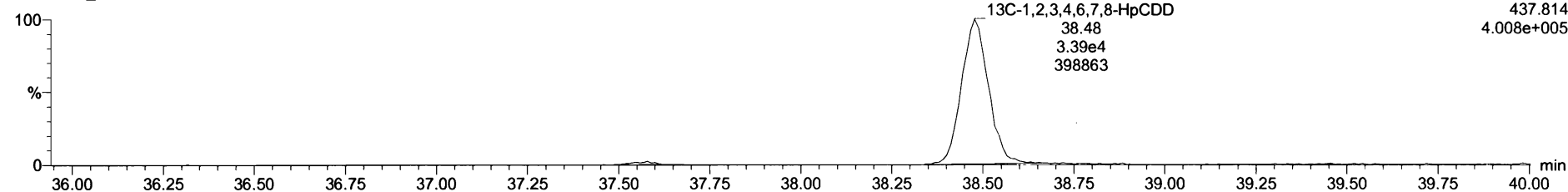


**13C-1,2,3,4,6,7,8-HpCDD**

210408D1\_7



210408D1\_7



Dataset: Untitled

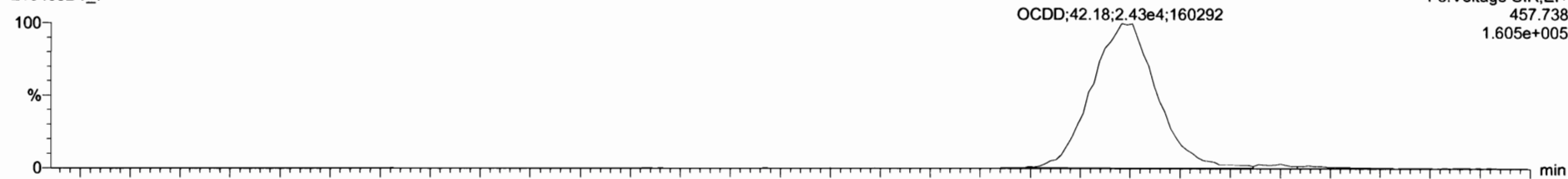
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1\_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

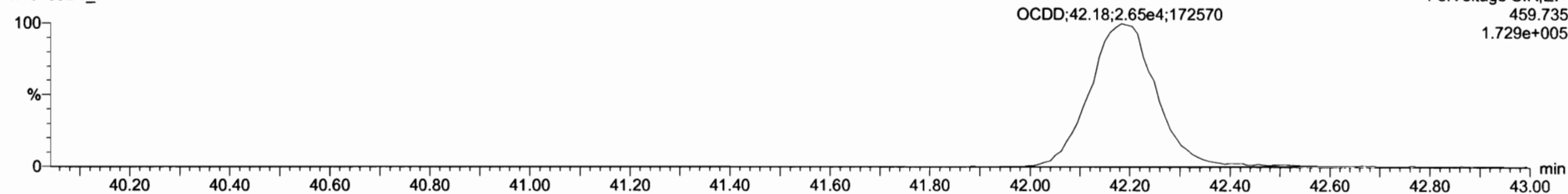
**OCDD**

210408D1\_7



F5:Voltage SIR,EI+  
457.738  
1.605e+005

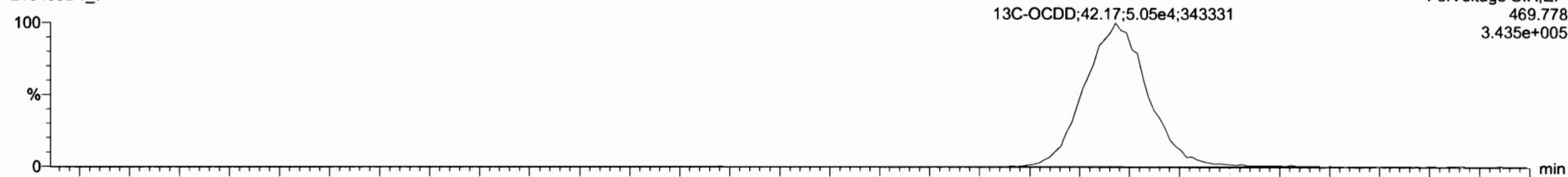
210408D1\_7



F5:Voltage SIR,EI+  
459.735  
1.729e+005

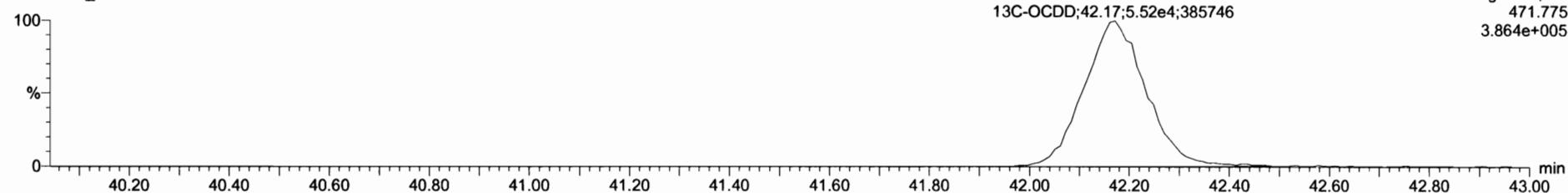
**13C-OCDD**

210408D1\_7



F5:Voltage SIR,EI+  
469.778  
3.435e+005

210408D1\_7



F5:Voltage SIR,EI+  
471.775  
3.864e+005

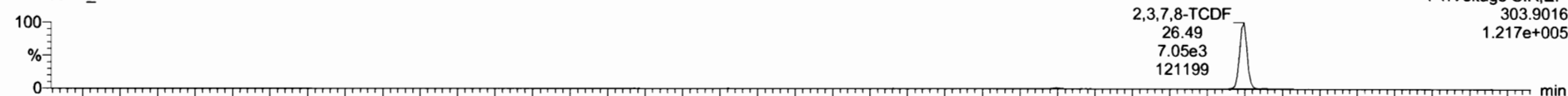
Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1\_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

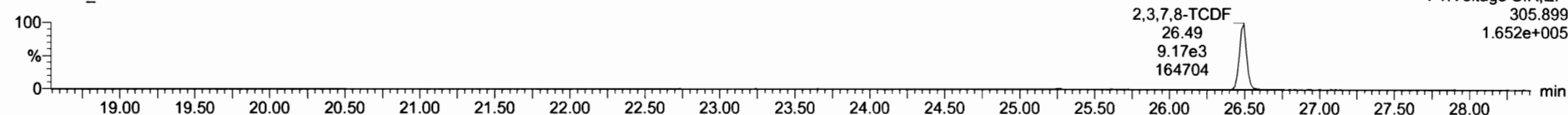
**2,3,7,8-TCDF**

210408D1\_7



F1:Voltage SIR,EI+  
303.9016  
1.217e+005

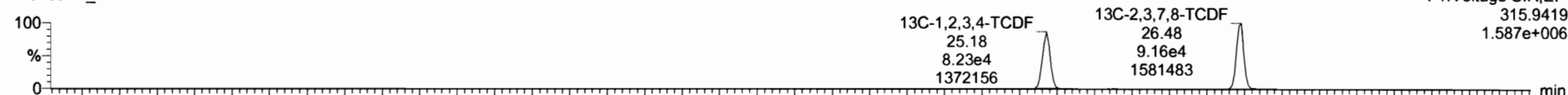
210408D1\_7



F1:Voltage SIR,EI+  
305.899  
1.652e+005

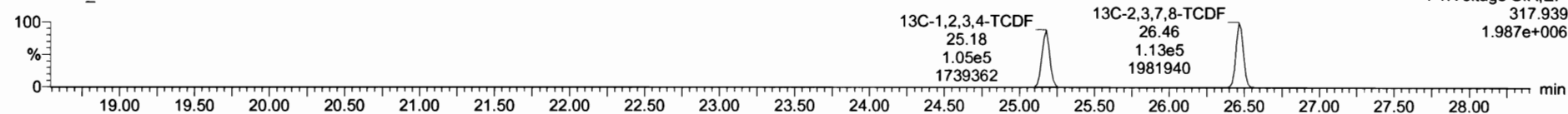
**13C-2,3,7,8-TCDF**

210408D1\_7



F1:Voltage SIR,EI+  
315.9419  
1.587e+006

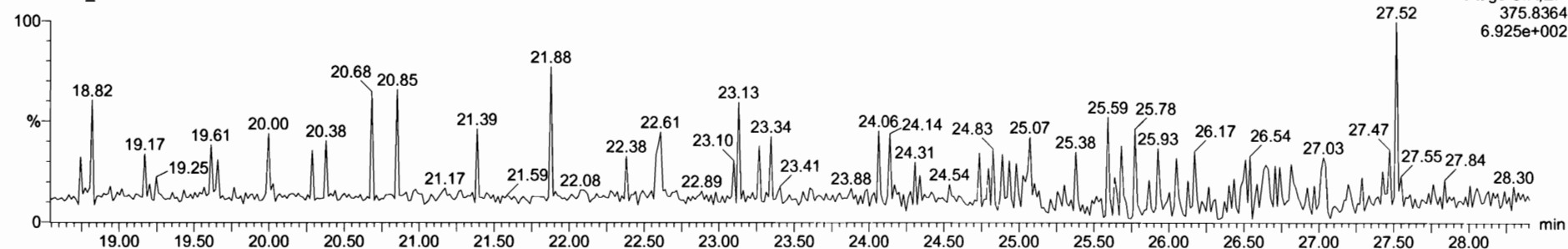
210408D1\_7



F1:Voltage SIR,EI+  
317.939  
1.987e+006

**DPE1**

210408D1\_7



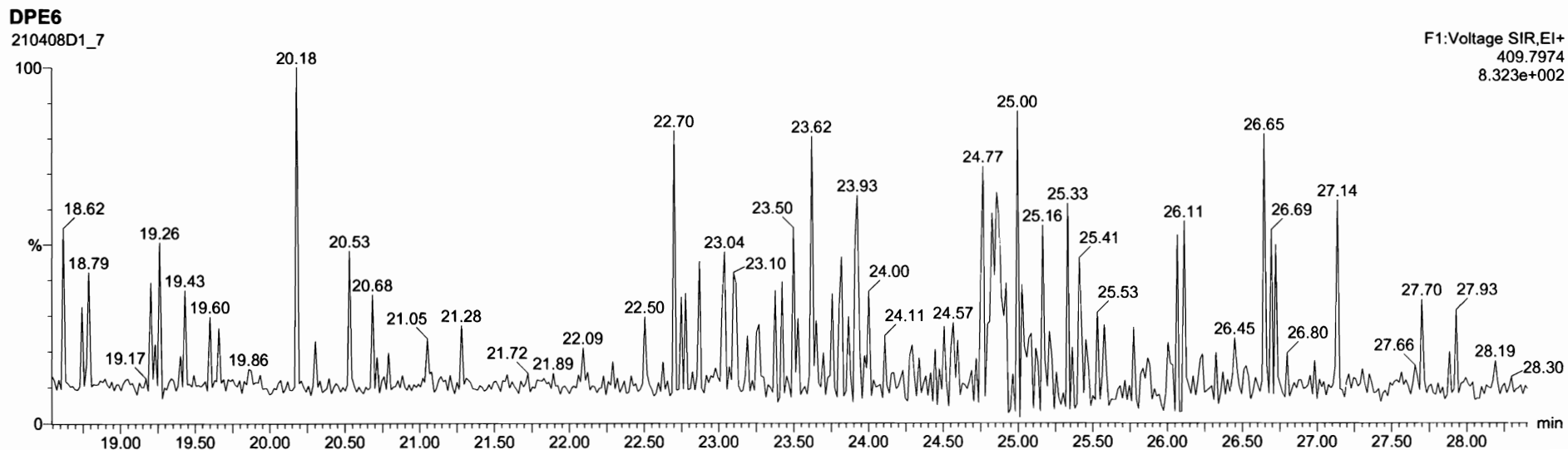
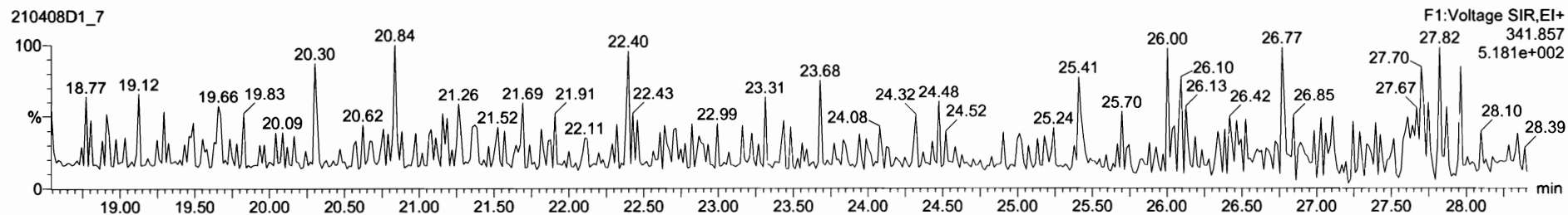
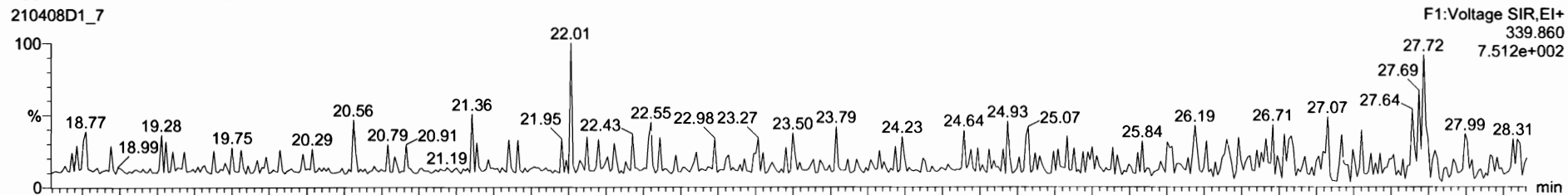
F1:Voltage SIR,EI+  
375.8364  
6.925e+002

Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1\_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

1st Func. Penta-Furans



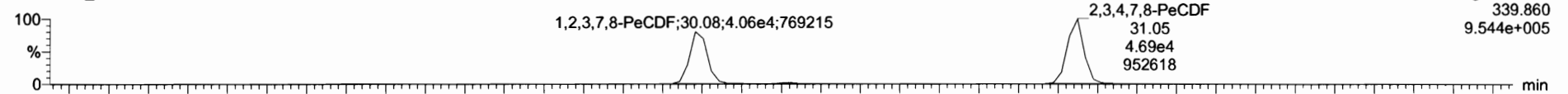
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

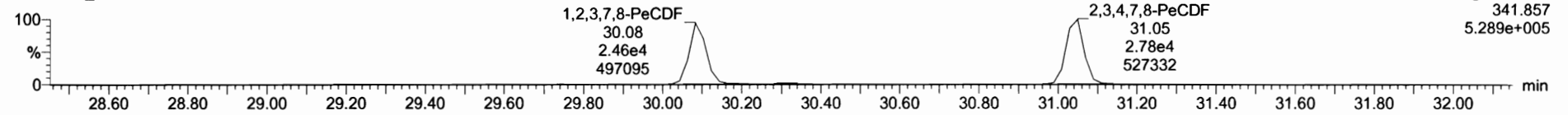
Name: 210408D1\_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

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

210408D1\_7

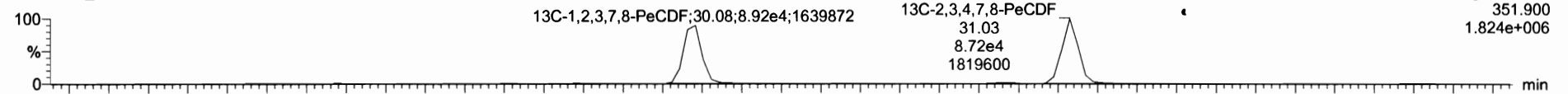


210408D1\_7

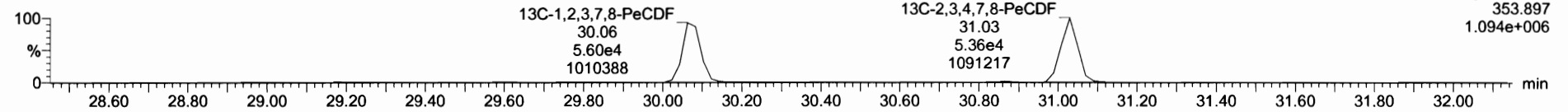


**13C-1,2,3,7,8-PeCDF**

210408D1\_7

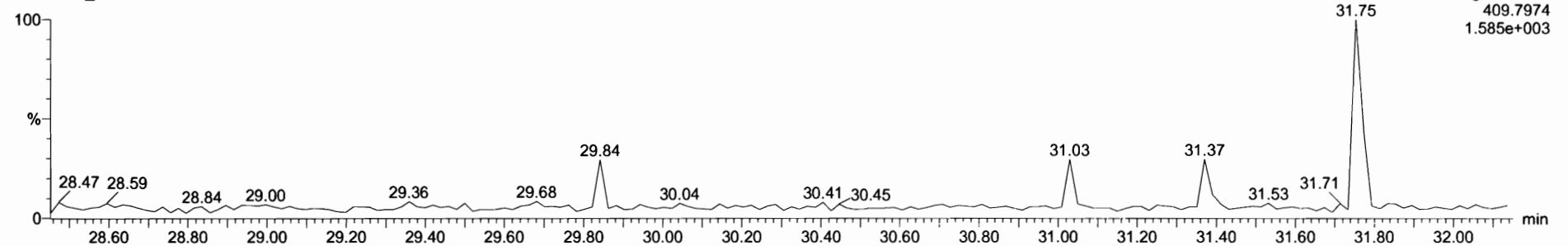


210408D1\_7



**DPE2**

210408D1\_7



Dataset: Untitled

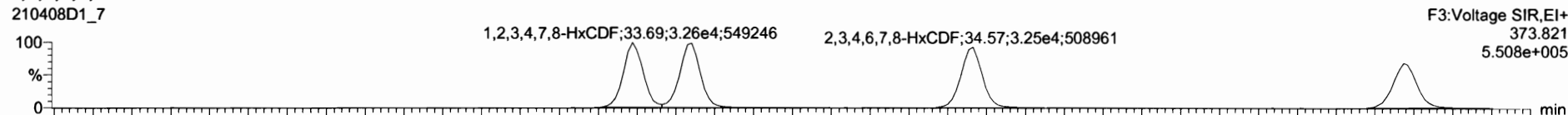
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

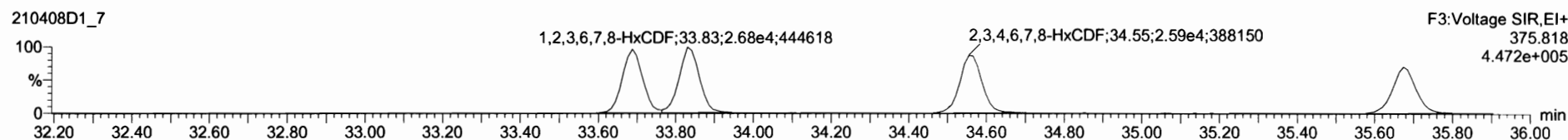
Name: 210408D1\_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

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

210408D1\_7

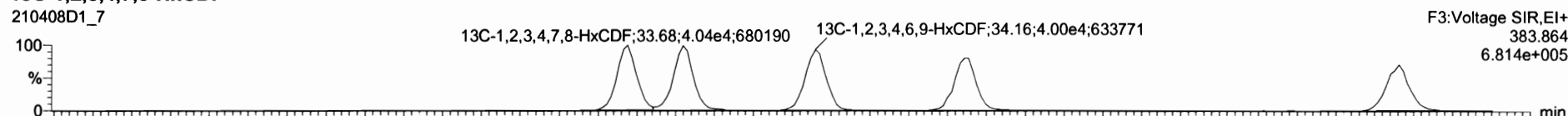


210408D1\_7

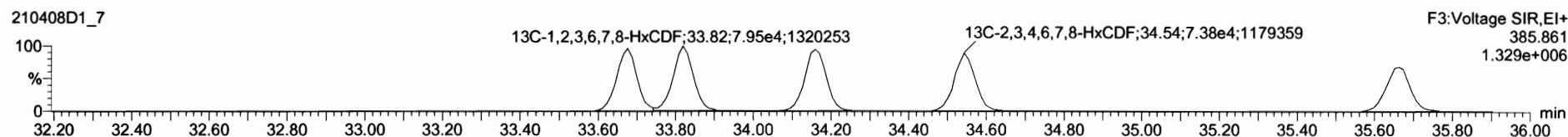


**13C-1,2,3,4,7,8-HxCDF**

210408D1\_7

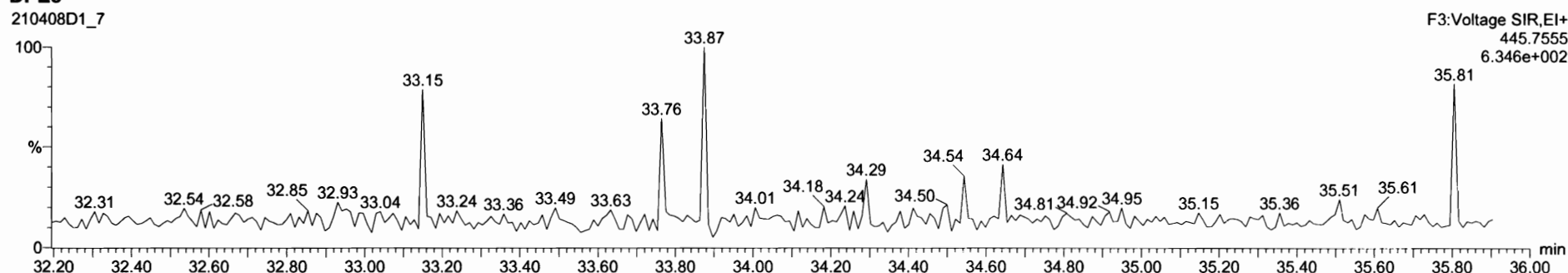


210408D1\_7



**DPE3**

210408D1\_7





Dataset: Untitled

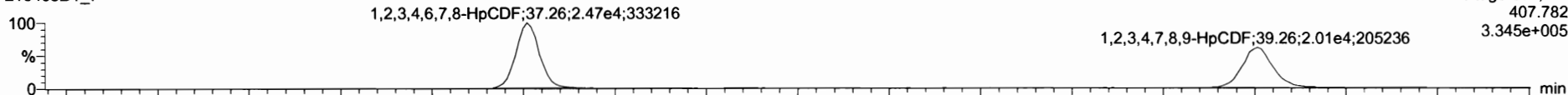
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

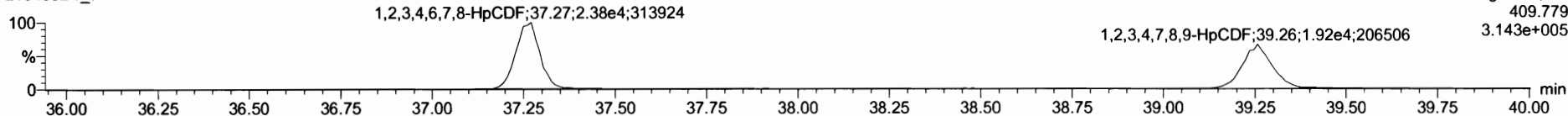
Name: 210408D1\_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

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

210408D1\_7



210408D1\_7

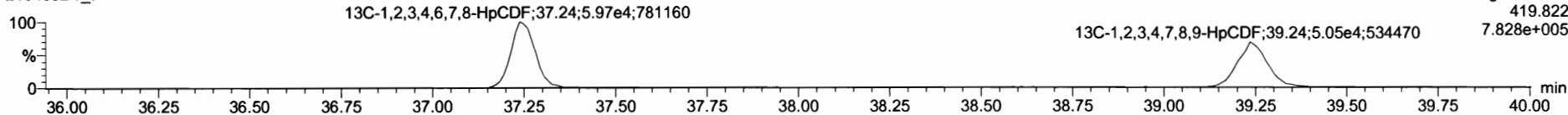


**13C-1,2,3,4,6,7,8-HpCDF**

210408D1\_7

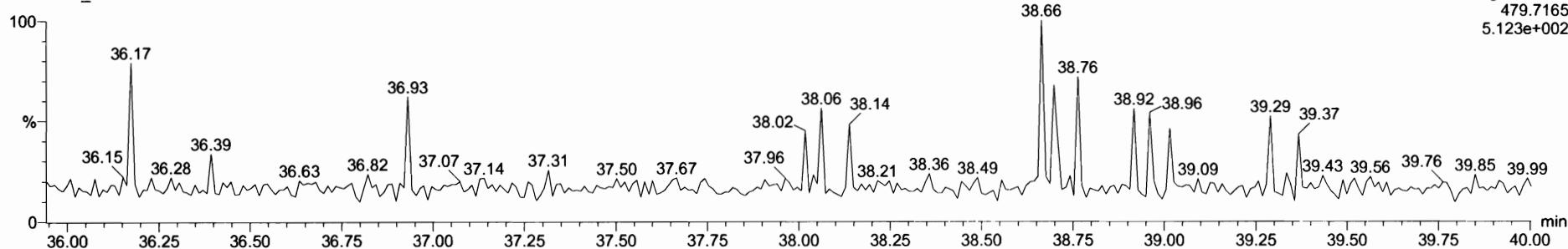


210408D1\_7



**DPE4**

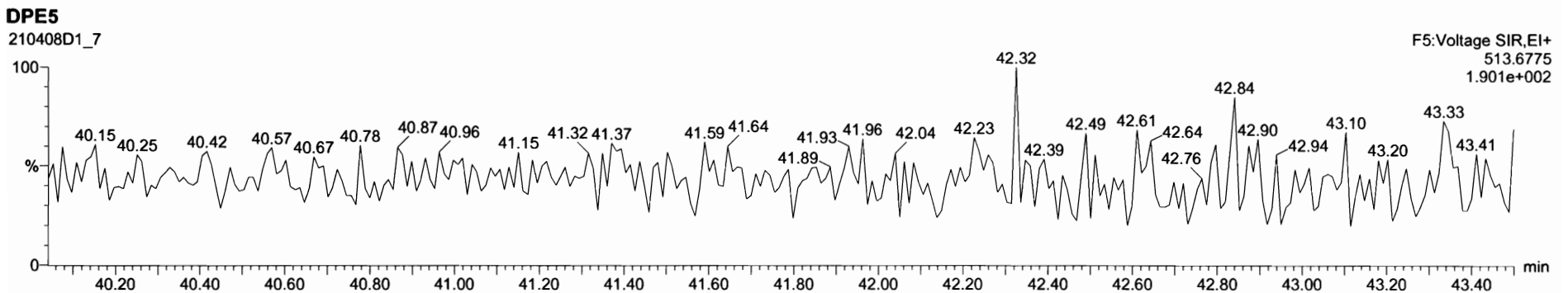
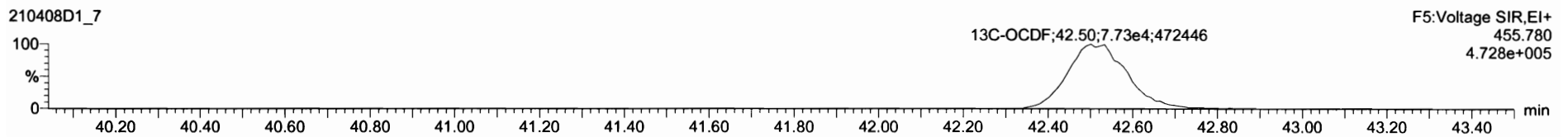
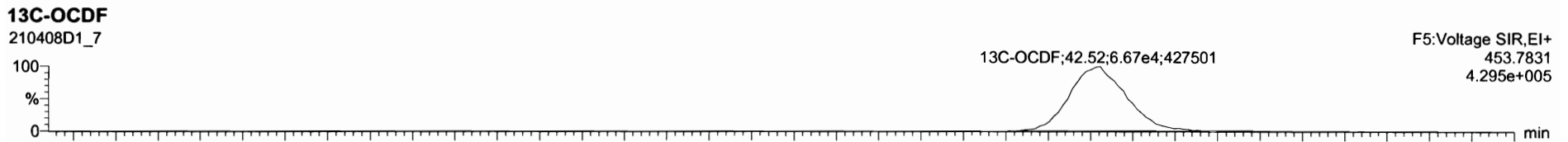
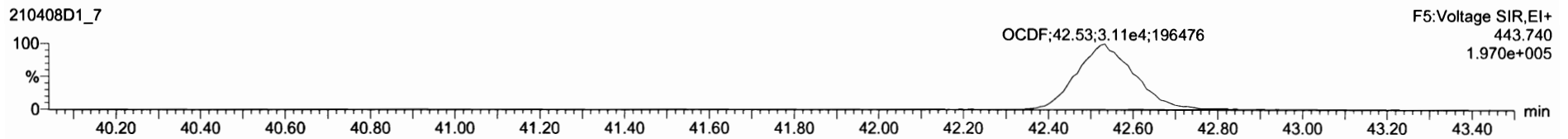
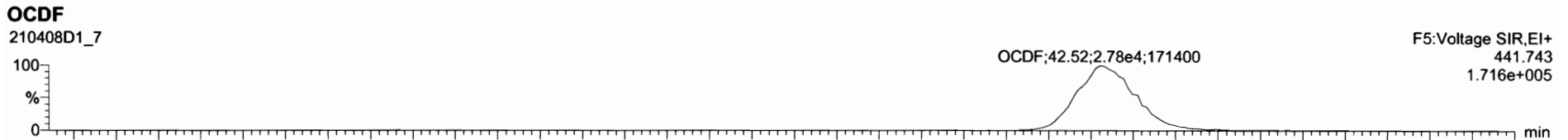
210408D1\_7



Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1\_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108



Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time  
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1\_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

