

December 04, 2020

Vista Work Order No. 2002374

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 November 03, 2020 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.

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

Sincerely,

Martha Maier
Laboratory Director



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

Vista Work Order No. 2002374

Case Narrative

Sample Condition on Receipt:

Eight 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 above the quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

As requested, a Duplicate was performed on sample "USMPDI-054SC-A-08-09-201029". The RPDs were out of the acceptance criteria for 1,2,3,4,6,7,8-HpCDD and OCDD.

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

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2002374-01	USMPDI-046SC-A-01-02-201029	29-Oct-20 10:40	03-Nov-20 09:27	Amber Glass, 120 mL
2002374-02	USMPDI-046SC-A-02-03-201029	29-Oct-20 10:40	03-Nov-20 09:27	Amber Glass, 120 mL
2002374-03	USMPDI-046SC-A-03-04-201029	29-Oct-20 10:40	03-Nov-20 09:27	Amber Glass, 120 mL
2002374-04	USMPDI-046SC-A-04-05-201029	29-Oct-20 10:40	03-Nov-20 09:27	Amber Glass, 120 mL
2002374-05	USMPDI-054SC-A-05-06-201029	29-Oct-20 14:15	03-Nov-20 09:27	Amber Glass, 120 mL
2002374-06	USMPDI-054SC-A-06-07-201029	29-Oct-20 14:15	03-Nov-20 09:27	Amber Glass, 120 mL
2002374-07	USMPDI-054SC-A-07-08-201029	29-Oct-20 14:15	03-Nov-20 09:27	Amber Glass, 120 mL
2002374-08	USMPDI-054SC-A-08-09-201029	DUP29-Oct-20 14:15	03-Nov-20 09:27	Amber Glass, 120 mL Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50		Lab Sample: B0K0172-BLK1 Date Analyzed: 25-Nov-20 13:08 Column: ZB-DIOXIN				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.100			IS 13C-2,3,7,8-TCDD	105	25 - 164	
1,2,3,7,8-PeCDD	ND	0.152			13C-1,2,3,7,8-PeCDD	77.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.172			13C-1,2,3,4,7,8-HxCDD	81.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.172			13C-1,2,3,6,7,8-HxCDD	81.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.186			13C-1,2,3,7,8,9-HxCDD	83.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.206			13C-1,2,3,4,6,7,8-HpCDD	81.2	23 - 140	
OCDD	1.29			J	13C-OCDD	74.2	17 - 157	
2,3,7,8-TCDF	ND	0.0511			13C-2,3,7,8-TCDF	92.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0803			13C-1,2,3,7,8-PeCDF	81.0	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0684			13C-2,3,4,7,8-PeCDF	77.5	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0593			13C-1,2,3,4,7,8-HxCDF	93.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0575			13C-1,2,3,6,7,8-HxCDF	91.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0694			13C-2,3,4,6,7,8-HxCDF	90.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.105			13C-1,2,3,7,8,9-HxCDF	88.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.119			13C-1,2,3,4,6,7,8-HpCDF	90.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.142			13C-1,2,3,4,7,8,9-HpCDF	81.5	26 - 138	
OCDF	ND	0.246			13C-OCDF	82.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	123	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 0.000387			
TOTALS								
Total TCDD	ND	0.100						
Total PeCDD	ND	0.152						
Total HxCDD	ND	0.186						
Total HpCDD	ND	0.206						
Total TCDF	ND	0.0511						
Total PeCDF	ND	0.0803						
Total HxCDF	ND	0.105						
Total HpCDF	ND	0.142						

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: B0K0172	Lab Sample: B0K0172-BS1					
Sample Size: 10.0 g	Date Extracted: 19-Nov-2020 12:50	Date Analyzed: 25-Nov-20 11:38	Column: ZB-DIOXIN				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	26.2	20.0	131	67 - 158	IS 13C-2,3,7,8-TCDD	93.5	20 - 175
1,2,3,7,8-PeCDD	136	100	136	70 - 142	13C-1,2,3,7,8-PeCDD	75.4	21 - 227
1,2,3,4,7,8-HxCDD	116	100	116	70 - 164	13C-1,2,3,4,7,8-HxCDD	78.4	21 - 193
1,2,3,6,7,8-HxCDD	114	100	114	76 - 134	13C-1,2,3,6,7,8-HxCDD	78.2	25 - 163
1,2,3,7,8,9-HxCDD	117	100	117	64 - 162	13C-1,2,3,7,8,9-HxCDD	78.9	21 - 193
1,2,3,4,6,7,8-HpCDD	109	100	109	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	79.1	26 - 166
OCDD	226	200	113	78 - 144	13C-OCDD	71.3	13 - 199
2,3,7,8-TCDF	20.7	20.0	103	75 - 158	13C-2,3,7,8-TCDF	86.9	22 - 152
1,2,3,7,8-PeCDF	119	100	119	80 - 134	13C-1,2,3,7,8-PeCDF	77.6	21 - 192
2,3,4,7,8-PeCDF	116	100	116	68 - 160	13C-2,3,4,7,8-PeCDF	76.2	13 - 328
1,2,3,4,7,8-HxCDF	97.9	100	97.9	72 - 134	13C-1,2,3,4,7,8-HxCDF	89.6	19 - 202
1,2,3,6,7,8-HxCDF	97.1	100	97.1	84 - 130	13C-1,2,3,6,7,8-HxCDF	88.5	21 - 159
2,3,4,6,7,8-HxCDF	99.6	100	99.6	70 - 156	13C-2,3,4,6,7,8-HxCDF	84.8	22 - 176
1,2,3,7,8,9-HxCDF	96.8	100	96.8	78 - 130	13C-1,2,3,7,8,9-HxCDF	83.7	17 - 205
1,2,3,4,6,7,8-HpCDF	99.2	100	99.2	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	85.3	21 - 158
1,2,3,4,7,8,9-HpCDF	96.2	100	96.2	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	78.3	20 - 186
OCDF	200	200	99.8	63 - 170	13C-OCDF	78.3	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	115	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: USMPDI-046SC-A-01-02-201029 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002374-01 Date Received: 03-Nov-2020 9:27
Project: GascoSiltronic: US Moorings	Sample Size: 11.4 g	QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50
Date Collected: 29-Oct-2020 10:40	% Solids: 88.7	Date Analyzed: 26-Nov-20 00:31 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0814			IS 13C-2,3,7,8-TCDD	96.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.284			13C-1,2,3,7,8-PeCDD	68.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.161			13C-1,2,3,4,7,8-HxCDD	73.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.166			13C-1,2,3,6,7,8-HxCDD	70.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.171			13C-1,2,3,7,8,9-HxCDD	72.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.54				13C-1,2,3,4,6,7,8-HpCDD	72.4	23 - 140	
OCDD	28.1			B	13C-OCDD	62.2	17 - 157	
2,3,7,8-TCDF	0.163			J	13C-2,3,7,8-TCDF	90.6	24 - 169	
1,2,3,7,8-PeCDF	0.330			J	13C-1,2,3,7,8-PeCDF	72.1	24 - 185	
2,3,4,7,8-PeCDF	0.121			J	13C-2,3,4,7,8-PeCDF	69.7	21 - 178	
1,2,3,4,7,8-HxCDF	0.414			J	13C-1,2,3,4,7,8-HxCDF	81.2	26 - 152	
1,2,3,6,7,8-HxCDF	0.102			J	13C-1,2,3,6,7,8-HxCDF	81.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0692			13C-2,3,4,6,7,8-HxCDF	81.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.110			13C-1,2,3,7,8,9-HxCDF	79.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.447			J	13C-1,2,3,4,6,7,8-HpCDF	75.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0744			13C-1,2,3,4,7,8,9-HpCDF	73.6	26 - 138	
OCDF	1.08			J	13C-OCDF	69.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	120	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.153

TOTALS								
Total TCDD	ND	0.0814						
Total PeCDD	ND	0.284						
Total HxCDD	1.26							
Total HpCDD	5.89							
Total TCDF	0.298							
Total PeCDF	0.628							
Total HxCDF	0.682		0.879					
Total HpCDF	1.07							

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-046SC-A-02-03-201029 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002374-02 Date Received: 03-Nov-2020 9:27
Project: GascoSiltronic: US Moorings	Sample Size: 15.5 g	QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50
Date Collected: 29-Oct-2020 10:40	% Solids: 64.9	Date Analyzed: 26-Nov-20 01:16 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0764			IS 13C-2,3,7,8-TCDD	93.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.140			13C-1,2,3,7,8-PeCDD	76.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.140			13C-1,2,3,4,7,8-HxCDD	76.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.154			13C-1,2,3,6,7,8-HxCDD	74.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.164			13C-1,2,3,7,8,9-HxCDD	74.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.27			J	13C-1,2,3,4,6,7,8-HpCDD	73.4	23 - 140	
OCDD	27.0			B	13C-OCDD	62.2	17 - 157	
2,3,7,8-TCDF	ND	0.0392			13C-2,3,7,8-TCDF	90.2	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0523			13C-1,2,3,7,8-PeCDF	81.0	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0498			13C-2,3,4,7,8-PeCDF	80.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0530			13C-1,2,3,4,7,8-HxCDF	82.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0522			13C-1,2,3,6,7,8-HxCDF	79.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0575			13C-2,3,4,6,7,8-HxCDF	82.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0863			13C-1,2,3,7,8,9-HxCDF	83.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.126			J	13C-1,2,3,4,6,7,8-HpCDF	79.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0953			13C-1,2,3,4,7,8,9-HpCDF	72.7	26 - 138	
OCDF	ND	0.245			13C-OCDF	68.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	117	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0321

TOTALS			
Total TCDD	0.898		1.03
Total PeCDD	0.216		0.838
Total HxCDD	2.71		
Total HpCDD	6.89		
Total TCDF	0.237		
Total PeCDF	ND	0.0523	
Total HxCDF	ND	0.0863	
Total HpCDF	0.126		

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-046SC-A-03-04-201029 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002374-03 Date Received: 03-Nov-2020 9:27
Project: GascoSiltronic: US Moorings	Sample Size: 16.3 g	QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50
Date Collected: 29-Oct-2020 10:40	% Solids: 62.1	Date Analyzed: 26-Nov-20 02:01 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.102			IS 13C-2,3,7,8-TCDD	93.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.292			13C-1,2,3,7,8-PeCDD	74.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.169			13C-1,2,3,4,7,8-HxCDD	71.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.163			13C-1,2,3,6,7,8-HxCDD	71.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.180			13C-1,2,3,7,8,9-HxCDD	73.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.34			J	13C-1,2,3,4,6,7,8-HpCDD	71.3	23 - 140	
OCDD	28.1			B	13C-OCDD	64.6	17 - 157	
2,3,7,8-TCDF	ND	0.0477			13C-2,3,7,8-TCDF	87.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0465			13C-1,2,3,7,8-PeCDF	74.9	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0391			13C-2,3,4,7,8-PeCDF	75.6	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0347			13C-1,2,3,4,7,8-HxCDF	80.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0345			13C-1,2,3,6,7,8-HxCDF	80.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0385			13C-2,3,4,6,7,8-HxCDF	80.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0609			13C-1,2,3,7,8,9-HxCDF	80.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0530			13C-1,2,3,4,6,7,8-HpCDF	74.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0579			13C-1,2,3,4,7,8,9-HpCDF	68.1	26 - 138	
OCDF	ND	0.150			13C-OCDF	69.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	113	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0318

TOTALS			
Total TCDD	3.26		
Total PeCDD	1.52		
Total HxCDD	4.85		
Total HpCDD	8.16		
Total TCDF	0.264		
Total PeCDF	ND	0.0465	
Total HxCDF	ND	0.0609	
Total HpCDF	ND	0.0579	

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-046SC-A-04-05-201029 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002374-04 Date Received: 03-Nov-2020 9:27
Project: GascoSiltronic: US Moorings	Sample Size: 11.6 g	QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50
Date Collected: 29-Oct-2020 10:40	% Solids: 87.0	Date Analyzed: 26-Nov-20 02:45 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.109			IS 13C-2,3,7,8-TCDD	91.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.219			13C-1,2,3,7,8-PeCDD	72.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.103			13C-1,2,3,4,7,8-HxCDD	73.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.106			13C-1,2,3,6,7,8-HxCDD	75.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.116			13C-1,2,3,7,8,9-HxCDD	77.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.53			J	13C-1,2,3,4,6,7,8-HpCDD	68.9	23 - 140	
OCDD	14.9			B	13C-OCDD	62.3	17 - 157	
2,3,7,8-TCDF	ND	0.0363			13C-2,3,7,8-TCDF	87.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0353			13C-1,2,3,7,8-PeCDF	77.8	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0307			13C-2,3,4,7,8-PeCDF	75.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0537			13C-1,2,3,4,7,8-HxCDF	81.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0546			13C-1,2,3,6,7,8-HxCDF	79.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0591			13C-2,3,4,6,7,8-HxCDF	82.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.100			13C-1,2,3,7,8,9-HxCDF	77.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0588			13C-1,2,3,4,6,7,8-HpCDF	73.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0671			13C-1,2,3,4,7,8,9-HpCDF	67.6	26 - 138	
OCDF	0.315			J	13C-OCDF	67.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	110	35 - 197	

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

TEQMinWHO2005Dioxin 0.0199

TOTALS								
Total TCDD	ND	0.109						
Total PeCDD	ND	0.219						
Total HxCDD	1.29							
Total HpCDD	3.83							
Total TCDF	ND	0.0363						
Total PeCDF	ND	0.0353						
Total HxCDF	ND	0.100						
Total HpCDF	ND	0.0671						

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-054SC-A-05-06-201029 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002374-05 Date Received: 03-Nov-2020 9:27
Project: GascoSiltronic: US Moorings	Sample Size: 16.8 g	QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50
Date Collected: 29-Oct-2020 14:15	% Solids: 60.1	Date Analyzed : 26-Nov-20 03:30 Column: ZB-DIOXIN 26-Nov-20 19:04 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.23				IS 13C-2,3,7,8-TCDD	96.5	25 - 164	
1,2,3,7,8-PeCDD	4.83				13C-1,2,3,7,8-PeCDD	77.0	25 - 181	
1,2,3,4,7,8-HxCDD	3.18				13C-1,2,3,4,7,8-HxCDD	68.8	32 - 141	
1,2,3,6,7,8-HxCDD	25.6				13C-1,2,3,6,7,8-HxCDD	67.3	28 - 130	
1,2,3,7,8,9-HxCDD	8.27				13C-1,2,3,7,8,9-HxCDD	67.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	1130				13C-1,2,3,4,6,7,8-HpCDD	57.1	23 - 140	
OCDD	16000			D, B	13C-OCDD	18.8	17 - 157	D
2,3,7,8-TCDF	12.6				13C-2,3,7,8-TCDF	91.1	24 - 169	
1,2,3,7,8-PeCDF	17.9				13C-1,2,3,7,8-PeCDF	86.3	24 - 185	
2,3,4,7,8-PeCDF	34.3				13C-2,3,4,7,8-PeCDF	83.3	21 - 178	
1,2,3,4,7,8-HxCDF	26.5				13C-1,2,3,4,7,8-HxCDF	76.9	26 - 152	
1,2,3,6,7,8-HxCDF	12.1				13C-1,2,3,6,7,8-HxCDF	76.0	26 - 123	
2,3,4,6,7,8-HxCDF	15.3				13C-2,3,4,6,7,8-HxCDF	71.2	28 - 136	
1,2,3,7,8,9-HxCDF	1.15			J	13C-1,2,3,7,8,9-HxCDF	70.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	343				13C-1,2,3,4,6,7,8-HpCDF	60.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	9.95				13C-1,2,3,4,7,8,9-HpCDF	58.7	26 - 138	
OCDF	848				13C-OCDF	30.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	116	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 47.2

TOTALS			
Total TCDD	22.5		
Total PeCDD	65.9	76.7	
Total HxCDD	266		
Total HpCDD	2950		
Total TCDF	159	160	
Total PeCDF	269		
Total HxCDF	420		
Total HpCDF	979		

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-054SC-A-06-07-201029 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002374-06 Date Received: 03-Nov-2020 9:27
Project: GascoSiltronic: US Moorings	Sample Size: 13.9 g	QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50
Date Collected: 29-Oct-2020 14:15	% Solids: 72.1	Date Analyzed: 26-Nov-20 04:15 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.396		IS 13C-2,3,7,8-TCDD	93.4	25 - 164	
1,2,3,7,8-PeCDD	ND		0.921		13C-1,2,3,7,8-PeCDD	80.5	25 - 181	
1,2,3,4,7,8-HxCDD	0.843			J	13C-1,2,3,4,7,8-HxCDD	76.0	32 - 141	
1,2,3,6,7,8-HxCDD	4.49				13C-1,2,3,6,7,8-HxCDD	74.8	28 - 130	
1,2,3,7,8,9-HxCDD	1.66			J	13C-1,2,3,7,8,9-HxCDD	78.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	233				13C-1,2,3,4,6,7,8-HpCDD	73.9	23 - 140	
OCDD	3390			B	13C-OCDD	68.9	17 - 157	
2,3,7,8-TCDF	8.04				13C-2,3,7,8-TCDF	86.2	24 - 169	
1,2,3,7,8-PeCDF	13.6				13C-1,2,3,7,8-PeCDF	85.8	24 - 185	
2,3,4,7,8-PeCDF	12.5				13C-2,3,4,7,8-PeCDF	86.0	21 - 178	
1,2,3,4,7,8-HxCDF	19.8				13C-1,2,3,4,7,8-HxCDF	84.0	26 - 152	
1,2,3,6,7,8-HxCDF	6.16				13C-1,2,3,6,7,8-HxCDF	82.4	26 - 123	
2,3,4,6,7,8-HxCDF	3.88				13C-2,3,4,6,7,8-HxCDF	83.9	28 - 136	
1,2,3,7,8,9-HxCDF	1.01			J	13C-1,2,3,7,8,9-HxCDF	81.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	51.4				13C-1,2,3,4,6,7,8-HpCDF	74.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	4.21				13C-1,2,3,4,7,8,9-HpCDF	70.5	26 - 138	
OCDF	81.7				13C-OCDF	65.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	112	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 12.7

TOTALS			
Total TCDD	5.37		5.76
Total PeCDD	12.3		16.0
Total HxCDD	75.0		
Total HpCDD	605		
Total TCDF	43.1		49.2
Total PeCDF	81.0		
Total HxCDF	98.2		
Total HpCDF	126		

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-054SC-A-07-08-201029 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002374-07 Date Received: 03-Nov-2020 9:27
Project: GascoSiltronic: US Moorings	Sample Size: 13.4 g	QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50
Date Collected: 29-Oct-2020 14:15	% Solids: 75.3	Date Analyzed: 26-Nov-20 05:00 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.108			IS 13C-2,3,7,8-TCDD	79.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.154			13C-1,2,3,7,8-PeCDD	72.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.149			13C-1,2,3,4,7,8-HxCDD	71.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.148			13C-1,2,3,6,7,8-HxCDD	72.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.166			13C-1,2,3,7,8,9-HxCDD	72.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.28			J	13C-1,2,3,4,6,7,8-HpCDD	68.3	23 - 140	
OCDD	28.5			B	13C-OCDD	60.7	17 - 157	
2,3,7,8-TCDF	ND	0.0542			13C-2,3,7,8-TCDF	71.2	24 - 169	
1,2,3,7,8-PeCDF	ND		0.0980		13C-1,2,3,7,8-PeCDF	77.4	24 - 185	
2,3,4,7,8-PeCDF	ND		0.134		13C-2,3,4,7,8-PeCDF	78.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.145		13C-1,2,3,4,7,8-HxCDF	77.9	26 - 152	
1,2,3,6,7,8-HxCDF	0.0721			J	13C-1,2,3,6,7,8-HxCDF	78.2	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0818			13C-2,3,4,6,7,8-HxCDF	80.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.137			13C-1,2,3,7,8,9-HxCDF	75.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.448			J	13C-1,2,3,4,6,7,8-HpCDF	71.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.142			13C-1,2,3,4,7,8,9-HpCDF	66.4	26 - 138	
OCDF	0.677			J	13C-OCDF	65.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	103	35 - 197	

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

TEQMinWHO2005Dioxin 0.0432

TOTALS								
Total TCDD	ND	0.108						
Total PeCDD	ND	0.154						
Total HxCDD	0.775		1.27					
Total HpCDD	6.04							
Total TCDF	ND		0.158					
Total PeCDF	0.239		0.784					
Total HxCDF	0.296		0.710					
Total HpCDF	1.01							

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-054SC-A-08-09-201029 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002374-08 Date Received: 03-Nov-2020 9:27
Project: GascoSiltronic: US Moorings	Sample Size: 11.7 g	QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50
Date Collected: 29-Oct-2020 14:15	% Solids: 87.3	Date Analyzed: 26-Nov-20 05:45 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0849			IS 13C-2,3,7,8-TCDD	89.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.182			13C-1,2,3,7,8-PeCDD	75.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.128			13C-1,2,3,4,7,8-HxCDD	72.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.132			13C-1,2,3,6,7,8-HxCDD	71.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.151			13C-1,2,3,7,8,9-HxCDD	72.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.46			J	13C-1,2,3,4,6,7,8-HpCDD	68.2	23 - 140	
OCDD	16.6			B	13C-OCDD	58.6	17 - 157	
2,3,7,8-TCDF	ND	0.0324			13C-2,3,7,8-TCDF	86.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0571			13C-1,2,3,7,8-PeCDF	79.6	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0481			13C-2,3,4,7,8-PeCDF	80.2	21 - 178	
1,2,3,4,7,8-HxCDF	0.0981			J	13C-1,2,3,4,7,8-HxCDF	79.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0638			13C-1,2,3,6,7,8-HxCDF	80.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0737			13C-2,3,4,6,7,8-HxCDF	80.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.113			13C-1,2,3,7,8,9-HxCDF	76.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0990			13C-1,2,3,4,6,7,8-HpCDF	72.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.115			13C-1,2,3,4,7,8,9-HpCDF	64.8	26 - 138	
OCDF	ND	0.163			13C-OCDF	62.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	109	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0294

TOTALS			
Total TCDD	ND	0.0849	
Total PeCDD	ND	0.182	
Total HxCDD	1.05		
Total HpCDD	3.93		
Total TCDF	ND	0.0324	
Total PeCDF	ND	0.0571	
Total HxCDF	0.165		
Total HpCDF	ND	0.115	

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: Duplicate **EPA Method 1613B**

Source Client ID: USMPDI-054SC-A-08-09-201029	QC Batch: B0K0172	Lab Sample: B0K0172-DUP1
Source LabNumber: 2002374-08	Date Extracted: 19-Nov-2020 12:50	Date Analyzed: 26-Nov-20 06:30 Column: ZB-DIOXIN
Matrix: Solid		
Sample Size: 11.6 g		

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0666			IS 13C-2,3,7,8-TCDD	105	25 - 164	
1,2,3,7,8-PeCDD	ND	0.115			13C-1,2,3,7,8-PeCDD	87.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.181			13C-1,2,3,4,7,8-HxCDD	82.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.182			13C-1,2,3,6,7,8-HxCDD	83.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.209			13C-1,2,3,7,8,9-HxCDD	83.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	3.13				13C-1,2,3,4,6,7,8-HpCDD	80.1	23 - 140	
OCDD	26.0			B	13C-OCDD	71.4	17 - 157	
2,3,7,8-TCDF	ND	0.0348			13C-2,3,7,8-TCDF	102	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0598			13C-1,2,3,7,8-PeCDF	95.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0560			13C-2,3,4,7,8-PeCDF	98.8	21 - 178	
1,2,3,4,7,8-HxCDF	0.130			J	13C-1,2,3,4,7,8-HxCDF	91.7	26 - 152	
1,2,3,6,7,8-HxCDF	ND		0.0480		13C-1,2,3,6,7,8-HxCDF	92.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0830			13C-2,3,4,6,7,8-HxCDF	92.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.141			13C-1,2,3,7,8,9-HxCDF	87.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.472			J	13C-1,2,3,4,6,7,8-HpCDF	85.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.178			13C-1,2,3,4,7,8,9-HpCDF	75.9	26 - 138	
OCDF	0.969			J	13C-OCDF	73.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	116	35 - 197	

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

TEQMinWHO2005Dioxin 0.0571

TOTALS								
Total TCDD	0.262							
Total PeCDD	ND	0.115						
Total HxCDD	2.17							
Total HpCDD	8.62							
Total TCDF	ND	0.0348						
Total PeCDF	ND	0.0598						
Total HxCDF	0.130		0.296					
Total HpCDF	1.16							

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.

Sample ID: Duplicate					EPA Method 1613B				
Source Client ID: USMPDI-054SC-A-08-09-201029					Duplicate Lab Sample: B0K0172-DUP1				
Source LabNumber: 2002374-08									
Matrix: Solid									
Analyte	Dup Conc. (pg/g)	Source Conc.	RPD	RPD Limits	Labeled Standard	Dup %R	Source %R	LCL-UCL	
2,3,7,8-TCDD	ND	ND	NA	35	IS 13C-2,3,7,8-TCDD	105	89.8	25 - 164	
1,2,3,7,8-PeCDD	ND	ND	NA	35	13C-1,2,3,7,8-PeCDD	87.7	75.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	ND	NA	35	13C-1,2,3,4,7,8-HxCDD	82.2	72.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	ND	NA	35	13C-1,2,3,6,7,8-HxCDD	83.2	71.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	ND	NA	35	13C-1,2,3,7,8,9-HxCDD	83.9	72.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	3.13	1.46	72.4	35	13C-1,2,3,4,6,7,8-HpCDD	80.1	68.2	23 - 140	
OCDD	26.0	16.6	44.4	35	13C-OCDD	71.4	58.6	17 - 157	
2,3,7,8-TCDF	ND	ND	NA	35	13C-2,3,7,8-TCDF	102	86.1	24 - 169	
1,2,3,7,8-PeCDF	ND	ND	NA	35	13C-1,2,3,7,8-PeCDF	95.3	79.6	24 - 185	
2,3,4,7,8-PeCDF	ND	ND	NA	35	13C-2,3,4,7,8-PeCDF	98.8	80.2	21 - 178	
1,2,3,4,7,8-HxCDF	0.130	0.0981	27.7	35	13C-1,2,3,4,7,8-HxCDF	91.7	79.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	ND	NA	35	13C-1,2,3,6,7,8-HxCDF	92.6	80.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	ND	NA	35	13C-2,3,4,6,7,8-HxCDF	92.1	80.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	ND	NA	35	13C-1,2,3,7,8,9-HxCDF	87.3	76.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.472	ND	#	35	13C-1,2,3,4,6,7,8-HpCDF	85.2	72.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	ND	NA	35	13C-1,2,3,4,7,8,9-HpCDF	75.9	64.8	26 - 138	
OCDF	0.969	ND	#	35	13C-OCDF	73.8	62.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	116	109	35 - 197	

LCL-UCL - Lower control limit - upper control limit
The results are reported in dry weight.
The sample size is reported in wet weight. Results reported to the MDL

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
K	EMPC (specific projects only)
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
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)

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

Vista Analytical Laboratory Certifications

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

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

NELAP Accredited Test Methods

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

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

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

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

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



ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

2002374 1.9°C

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: VISTA-20201029-153609
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-046SC-A-01-02-201029	N	SE	10/29/2020	10:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
002	USMPDI-046SC-A-02-03-201029	N	SE	10/29/2020	10:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
003	USMPDI-046SC-A-03-04-201029	N	SE	10/29/2020	10:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
004	USMPDI-046SC-A-04-05-201029	N	SE	10/29/2020	10:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
005	USMPDI-054SC-A-05-06-201029	N	SE	10/29/2020	14:15	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
006	USMPDI-054SC-A-06-07-201029	N	SE	10/29/2020	14:15	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
007	USMPDI-054SC-A-07-08-201029	N	SE	10/29/2020	14:15	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C

Comment:					
Relinquished By Signature	Received By Signature	Relinquished By Signature	Received By Signature	Relinquished By Signature	Received By Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
Sasha Adwood 3002374 @ 1/4/5	William R. W. Jr. 11/31/20 09:27				

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

2002374

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: VISTA-20201029-153609
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
007	USMPDI-054SC-A-07-08-201029	N	SE	10/29/2020	14:15	1	<input type="checkbox"/>				
Total solids (VISTA)									SM2540G	30	4°C
008	USMPDI-054SC-A-08-09-201029	N	SE	10/29/2020	14:15	2	<input checked="" 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 <i>[Signature]</i>	Signature <i>[Signature]</i>	Signature	Signature	Signature	Signature
Print Name <i>Sasha Norwood</i>	Print Name <i>William R Wright</i>	Print Name	Print Name	Print Name	Print Name
Company <i>Anchor QEA</i>	Company <i>VAI</i>	Company	Company	Company	Company
Date/Time <i>300626 @ 1845</i>	Date/Time <i>11/3/20 09:27</i>	Date/Time	Date/Time	Date/Time	Date/Time

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

Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 2002374 TAT Std

Samples Arrival:	Date/Time <u>11/3/20 09:27</u>		Initials: <u>WRW</u>		Location: <u>WR-2</u>		
					Shelf/Rack: <u>NA</u>		
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Techni Ice	<input type="checkbox"/> Dry Ice	<input type="checkbox"/> None
Temp °C:	<u>1.9</u> (uncorrected)	Probe used: <u>Y 1(N)</u>			Thermometer ID: <u>IR-3</u>		
Temp °C:	<u>1.9</u> (corrected)						

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>2 of 2</u> Trk # <u>7719 6992 2844</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"/>	<input checked="" type="checkbox"/> Return	<input type="checkbox"/> Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logged In:	Date/Time <u>11/04/20 13:34</u>		Initials: <u>Ka</u>
	Location: <u>WR-2</u>		Shelf/Rack: <u>D-3</u>
COC Anomaly/Sample Acceptance Form completed?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2002374

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2002374-01	A USMPDI-046SC-A-01-02-201029	<input checked="" type="checkbox"/>	29-Oct-20 10:40	Amber Glass, 120 mL	Solid	
2002374-02	A USMPDI-046SC-A-02-03-201029	<input checked="" type="checkbox"/>	29-Oct-20 10:40	Amber Glass, 120 mL	Solid	
2002374-03	A USMPDI-046SC-A-03-04-201029	<input checked="" type="checkbox"/>	29-Oct-20 10:40	Amber Glass, 120 mL	Solid	
2002374-04	A USMPDI-046SC-A-04-05-201029	<input checked="" type="checkbox"/>	29-Oct-20 10:40	Amber Glass, 120 mL	Solid	
2002374-05	A USMPDI-054SC-A-05-06-201029	<input checked="" type="checkbox"/>	29-Oct-20 14:15	Amber Glass, 120 mL	Solid	
2002374-06	A USMPDI-054SC-A-06-07-201029	<input checked="" type="checkbox"/>	29-Oct-20 14:15	Amber Glass, 120 mL	Solid	
2002374-07	A USMPDI-054SC-A-07-08-201029	<input checked="" type="checkbox"/>	29-Oct-20 14:15	Amber Glass, 120 mL	Solid	
2002374-08	A USMPDI-054SC-A-08-09-201029	<input checked="" type="checkbox"/>	29-Oct-20 14:15	Amber Glass, 120 mL	Solid	DUP
2002374-08	B USMPDI-054SC-A-08-09-201029	<input checked="" type="checkbox"/>	29-Oct-20 14:15	Amber Glass, 120 mL	Solid	DUP

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

	Yes	No	NA
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)	✓		
Preservation Documented: Na ₂ S ₂ O ₃ Trizma <u>None</u> Other		✓	✓
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓

Comments:

Verified by/Date: KR 11/04/20

EXTRACTION INFORMATION

Process Sheet
Workorder: 2002374

Prep Expiration: 2021-10-29
 Client: Anchor QEA, LLC

Workorder Due: 01-Dec-20 00:00

TAT: 28

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

Prep Batch: BOKO172

Prep Data Entered: IM 11/24/20
Date and Initials

Initial Sequence: SoK0075

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2002374-01	<input checked="" type="checkbox"/>	USMPDI-046SC-A-01-02-201029	03-Nov-20 09:27	WR-2 D-3	
2002374-02	<input checked="" type="checkbox"/>	USMPDI-046SC-A-02-03-201029	03-Nov-20 09:27	WR-2 D-3	
2002374-03	<input checked="" type="checkbox"/>	USMPDI-046SC-A-03-04-201029	03-Nov-20 09:27	WR-2 D-3	
2002374-04	<input checked="" type="checkbox"/>	USMPDI-046SC-A-04-05-201029	03-Nov-20 09:27	WR-2 D-3	
2002374-05	<input checked="" type="checkbox"/>	USMPDI-054SC-A-05-06-201029	03-Nov-20 09:27	WR-2 D-3	
2002374-06	<input checked="" type="checkbox"/>	USMPDI-054SC-A-06-07-201029	03-Nov-20 09:27	WR-2 D-3	
2002374-07	<input checked="" type="checkbox"/>	USMPDI-054SC-A-07-08-201029	03-Nov-20 09:27	WR-2 D-3	
2002374-08	<input checked="" type="checkbox"/>	USMPDI-054SC-A-08-09-201029	03-Nov-20 09:27	WR-2 D-3	DUP

WO Comments: 1613: 10g dw

Pre-Prep Check Out: CHT 11/06/20

Prep Check Out: RR 11/19/20

Prep Reconciled Initials/Date: CHT 11/06/20

Pre-Prep Check In: CHT 11/06/20

Prep Check In: RR 11/19/20

Spike Reconciled Initials/Date: RR 11/19/20

VialBoxID: TURKEY

LOLLIPOP

GRB 11/26/2020

PREPARATION BENCH SHEET

Matrix: Solid

BOK0172

Chemist: RR

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 19-Nov-20 12:50

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	BOK0172-BLK1	NA	(10.00)	RR ME 11/19/20	DG 1M 11/22/20	NA	DG 11/22/20	DG 11/22/20	DG 11/23/20	DG 1M 11/24/20
A2	BOK0172-BS1	↓	(10.00)	↓	↓	↓	↓	↓	↓	↓
A3	BOK0172-DUP1 2002374-08	11.45	11.57	↓	↓	↓	green, blue	pink, and rings	↓	↓
A4	2002374-01	11.28	11.36	↓	↓	↓	Salmon ring	↓	↓	↓
A5	2002374-02	15.42	15.53	↓	↓	↓	Indigo	yellow and rings	↓	↓
A6	2002374-03	16.10	16.27	↓	↓	↓	yellow	and magenta rings	↓	↓
A7	2002374-04	11.50	11.58	↓	↓	↓	Salmon ring	↓	↓	↓
A8	2002374-05	16.63	16.81	↓	↓	↓	orange, black, and green	yellow, black, and teal	↓	↓
A9	2002374-06	13.87	13.91	↓	↓	↓	yellow and teal	↓	↓	↓
A10	2002374-07	13.28	13.37	↓	↓	↓	yellow and purple	↓	↓	↓
A11	2002374-08	11.45	11.65	↓	↓	↓	pale green ring	↓	↓	↓
A12	2002375-01	19.68	19.72	↓	↓	↓	black, yellow, maroon, teal	↓	↓	↓
B1	2002375-02	16.42	16.90	↓	↓	↓	black, yellow, teal, purple	↓	↓	↓
B2	2002375-03	11.51	11.52	↓	↓	↓	pale blue, pink, and beige rings	↓	↓	↓
B3	2002375-04	11.38	11.44	↓	↓	↓	beige ring	↓	↓	↓

IS: 20F1101, 10μl (V3)	Cycle Time	APP: SEFUN (SOX) (SDS)	Check Out: RR 11/19/20	Soxhlet Siphoned Chemist/Date: RR 11/19/20	Notes: (A) Particulate stuck on 500ml rb unable to be transferred to column. DG 11/22/20
NS: 20F0107, 10μl (V4)	Start Date/Time: 11/19/20 1527	SOLV: Toluene	Check In: RR 11/19/20	RR 11/19/20	(1) DG 11/24/20
PS/CRS: 20E0701, 10μl (V1)	Stop Date/Time: 11/20/20 0754	Other: NA	Balance ID: HRMS-10	Vial Transfer Chemist/Date: 1M 11/24/20	
RS: 20E0702, 10μl (V1)		Final Volume(s): C14 20ML			
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

PREPARATION BENCH SHEET

Matrix: Solid

B0K0172

Chemist: RR

Method: 1613 Full List

Prep Date/Time: 19-Nov-20 12:50

Prepared using: HRMS - Soxhlet

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
B4	2002375-05*	19.80	19.86	RRME 11/19/20	DG 1M 11/22/20	NA	DG 11/22/20	DG 11/22/20	DG 11/23/20	DG 1M 11/24/20
B5	2002375-06	18.28	18.39	↓	↓	↓	DG 11/22/20 yellow, black, and green	↓	↓	↓
B6	2002375-07	17.14	17.62	↓	↓	↓	DG 11/22/20 beige ring	↓	↓	↓
B7	2002375-08	11.89	11.91	↓	↓	↓	DG 11/22/20 yellow, salmon, and beige rings	↓	↓	↓
B8	2002375-09	18.14	19.18	↓	↓	↓	DG 11/22/20 yellow, black, and indigo	↓	↓	↓
B9	2002436-02RE1	12.12	12.58	↓	↓	↓	DG 11/22/20 pale salmon yellow and rings	↓	↓	↓

IS: 20F1101, 10mL (V3)	Cycle Time	APP: SEFUN SOX/SIS	Check Out: Chemist/Date: RR 11/19/20	Soxhlet Siphoned Chemist/Date: RR 11/19/20	Notes: * ABSG brown, yellow, black, and green. DG: 11/22/20
NS: 20F0107, 10mL (V4)	Start Date/Time: 11/19/20 1527	SOLV: Toluene	Check In: Chemist/Date: RR 11/19/20	Vial Transfer Chemist/Date: IM 11/24/20	ⓑ during transfer to conical vial, pipette broke & some of hexane rinse lost 11/24/20
PS/CRS: 20E0701, 10mL (V1)	Stop Date/Time: 11/20/20 0754	Other: NA	Balance ID: HRMS-10		
RS: 20E0702, 10mL (V1)		Final Volume(s): C14 20mL			

- 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: B0K0172

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2002374-01	11.36 ✓	88.6628	10.0721	20 ✓	19-Nov-20 12:50	RR ✓			Sediment	1613 Full List
2002374-02	15.53 ✓	64.86487	10.0735	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002374-03	16.27 ✓	62.12121	10.1071	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002374-04	11.58 ✓	86.96538	10.0706	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002374-05	16.81 ✓	60.13289	10.1083	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002374-06	13.91 ✓	72.07793	10.0260	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002374-07	13.37 ✓	75.30434	10.0682	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002374-08	11.65 ✓	87.34567	10.1758	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-01	19.72 ✓	50.80128	10.0180	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-02	16.9 ✓	60.89325	10.2910	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-03	11.52 ✓	86.86868	10.0073	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-04	11.44 ✓	87.88991	10.0546	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-05	19.86 ✓	50.51078	10.0314	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-06	18.39 ✓	54.71204	10.0615	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-07	17.62 ✓	58.34522	10.2804	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-08	11.91 ✓	84.10351	10.0167	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-09	19.18 ✓	55.13595	10.5751	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002436-02RE1	12.58 ✓	82.49337	10.3777	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
B0K0172-BLK1	10 ✓			20	19-Nov-20 12:50	RR				QC
B0K0172-BSI	10 ✓			20	19-Nov-20 12:50	RR	20F0107 ✓	10 ✓		QC
B0K0172-DUP1	11.57 ✓	87.34567	10.1059 ✓	20 ✓	19-Nov-20 12:50 ✓	RR ✓				QC

All bolded data on report verified against written benchsheet by (initial/date) IM 11/24/20

Printed: 11/24/2020 12:59:37PM
Page 1 of 1

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0K0050

Analyst: CHT ✓	Test Code: %Moist/%Solids	Data Entry Verified by: (Initial and Date) RR 11/19/20 ✓
Analyte: Dried at 110°C +/- 5°C	Units: %	
Oven ID: 01 02 ✓		

Inst HRMS-09 ✓ Date/Time IN: 11/06/20 1241 ✓ Date/Time OUT: 11/13/20 1338 ✓

Particle Size	SampID	SampType	Initial and Date: Pan Tare Wt. (gms)	F		H	I	K				P	
				Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)			Visual Inspection	Cl-	pH Before	pH After		Acid Added
	2002374-01	A	1.2700 ✓	4.7100 ✓	4.3200 ✓	3.0500	88.66	DIRT ✓	NA	NA	NA	NA	X
	2002374-02	A	1.2800 ✓	5.7200 ✓	4.1600 ✓	2.8800	64.86	MUD ✓	NA	NA	NA	NA	X
	2002374-03	A	1.2800 ✓	6.5600 ✓	4.5600 ✓	3.2800	62.12	MUD ✓	NA	NA	NA	NA	X
	2002374-04	A	1.2700 ✓	6.1800 ✓	5.5400 ✓	4.2700	86.97	DIRT ✓	NA	NA	NA	NA	X
	2002374-05	A	1.2800 ✓	4.2900 ✓	3.0900 ✓	1.8100	60.13	MUD ✓	NA	NA	NA	NA	X
	2002374-06	A	1.2800 ✓	8.9800 ✓	6.8300 ✓	5.5500	72.08	MUD ✓	NA	NA	NA	NA	X
	2002374-07	A	1.2600 ✓	7.0100 ✓	5.5900 ✓	4.3300	75.30	DIRT ✓	NA	NA	NA	NA	X
	2002374-08	A	1.2700 ✓	4.5100 ✓	4.1000 ✓	2.8300	87.35	DIRT ✓	NA	NA	NA	NA	X

*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0K0050

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

Inst HRMS-9

Date/Time IN: Date/Time OUT

11/06/20 12:41 11/13/20

1338

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	CHT 11/06/20				Sample Homogenized*
			Pan Tare Wt. (gms)	CHT 11/06/20					CHT 11/13/20	Visual Inspection	Cl- Before	pH After	
	2002374-01	Sample	1.27	CHT 11/06/20	4.71	4.32		↓					✓
	2002374-02	Sample	1.28		5.72	4.16		↓					✓
	2002374-03	Sample	1.28		6.56	4.56		↓					✓
	2002374-04	Sample	1.27		6.18	5.54		↓					✓
	2002374-05	Sample	1.28		4.29	3.09		↓					✓
	2002374-06	Sample	1.28		8.98	6.83		↓					✓
	2002374-07	Sample	1.26		7.01	5.59		↓					✓
	2002374-08	Sample	1.27		4.51	4.10		↓					✓

*Sample homogenized in sample container unless otherwise noted.

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\201125R1\201125R1-6.qld

Last Altered: Wednesday, November 25, 2020 13:55:02 Pacific Standard Time

Printed: Thursday, November 26, 2020 09:35:28 Pacific Standard Time

GRB 11/26/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

CT 12/04/2020

Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.950	10.000	26.097		1.001				0.100	
2	2 1,2,3,7,8-PeCDD			NO	0.885	10.000	30.816		1.000				0.152	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.000	34.143		1.000				0.172	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.000	34.260		1.000				0.172	
5	5 1,2,3,7,8,9-HxCDD			NO	0.934	10.000	34.527		1.000				0.186	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.870	10.000	38.017		1.000				0.206	
7	7 OCDD	8.17e2	0.90	NO	0.872	10.000	40.963	40.99	1.000	1.001	1.2902		0.416	1.29
8	8 2,3,7,8-TCDF			NO	0.824	10.000	25.396		1.000				0.0511	
9	9 1,2,3,7,8-PeCDF			NO	0.963	10.000	29.540		1.000				0.0803	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.000	30.602		1.000				0.0684	
11	11 1,2,3,4,7,8-HxCDF			NO	0.953	10.000	33.217		1.000				0.0593	
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.000	33.355		1.000				0.0575	
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	10.000	34.030		1.000				0.0694	
14	14 1,2,3,7,8,9-HxCDF			NO	0.951	10.000	35.028		1.000				0.105	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.999	10.000	36.604		1.000				0.119	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	10.000	38.645		1.000				0.142	
17	17 OCDF			NO	0.868	10.000	41.248		1.000				0.246	
18	18 13C-2,3,7,8-TCDD	3.75e5	0.82	NO	1.11	10.000	26.058	26.07	1.030	1.030	209.65	105	0.531	
19	19 13C-1,2,3,7,8-PeCDD	2.14e5	0.66	NO	0.859	10.000	30.774	30.81	1.216	1.218	154.39	77.2	0.502	
20	20 13C-1,2,3,4,7,8-HxCDD	2.08e5	1.30	NO	0.700	10.000	34.132	34.13	1.014	1.014	163.65	81.8	0.729	
21	21 13C-1,2,3,6,7,8-HxCDD	2.48e5	1.27	NO	0.833	10.000	34.270	34.25	1.018	1.017	163.67	81.8	0.612	
22	22 13C-1,2,3,7,8,9-HxCDD	2.32e5	1.26	NO	0.762	10.000	34.513	34.52	1.025	1.025	167.41	83.7	0.669	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.92e5	1.09	NO	0.650	10.000	37.997	38.02	1.129	1.129	162.39	81.2	1.12	
24	24 13C-OCDD	2.91e5	0.93	NO	0.539	10.000	40.963	40.96	1.217	1.217	296.77	74.2	1.12	
25	25 13C-2,3,7,8-TCDF	6.12e5	0.80	NO	0.981	10.000	25.380	25.39	1.003	1.003	184.02	92.0	0.522	
26	26 13C-1,2,3,7,8-PeCDF	4.35e5	1.67	NO	0.792	10.000	29.507	29.53	1.166	1.167	162.01	81.0	0.795	
27	27 13C-2,3,4,7,8-PeCDF	4.08e5	1.63	NO	0.778	10.000	30.564	30.60	1.208	1.210	155.03	77.5	0.810	
28	28 13C-1,2,3,4,7,8-HxCDF	3.22e5	0.49	NO	0.954	10.000	33.223	33.22	0.987	0.987	186.12	93.1	0.986	
29	29 13C-1,2,3,6,7,8-HxCDF	3.33e5	0.50	NO	1.01	10.000	33.355	33.35	0.991	0.991	182.10	91.0	0.934	
30	30 13C-2,3,4,6,7,8-HxCDF	3.02e5	0.50	NO	0.921	10.000	34.025	34.03	1.011	1.011	180.27	90.1	1.02	
31	31 13C-1,2,3,7,8,9-HxCDF	2.59e5	0.50	NO	0.803	10.000	35.021	35.03	1.040	1.041	177.52	88.8	1.17	

Dataset: U:\VG12.PRO\Results\201125R1\201125R1-6.qld

Last Altered: Wednesday, November 25, 2020 13:55:02 Pacific Standard Time

Printed: Thursday, November 26, 2020 09:35:28 Pacific Standard Time

Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.42e5	0.42	NO	0.735	10.000	36.590	36.60	1.087	1.087	181.34	90.7	0.910	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.68e5	0.43	NO	0.568	10.000	38.626	38.65	1.147	1.148	163.02	81.5	1.18	
34	34 13C-OCDF	3.77e5	0.88	NO	0.629	10.000	41.246	41.24	1.225	1.225	330.32	82.6	0.677	
35	35 37Cl-2,3,7,8-TCDD	1.72e5			1.09	10.000	26.058	26.10	1.030	1.032	98.229	123	0.233	
36	36 13C-1,2,3,4-TCDD	3.23e5	0.85	NO	1.00	10.000	25.370	25.30	1.000	1.000	200.00	100	0.589	
37	37 13C-1,2,3,4-TCDF	6.78e5	0.80	NO	1.00	10.000	23.870	23.81	1.000	1.000	200.00	100	0.513	
38	38 13C-1,2,3,4,6,9-HxCDF	3.63e5	0.51	NO	1.00	10.000	33.710	33.66	1.000	1.000	200.00	100	0.940	
39	39 Total Tetra-Dioxins				0.950	10.000	24.620		0.000				0.0627	
40	40 Total Penta-Dioxins				0.885	10.000	29.960		0.000				0.0658	
41	41 Total Hexa-Dioxins				0.915	10.000	33.635		0.000				0.0985	
42	42 Total Hepta-Dioxins				0.870	10.000	37.640		0.000				0.123	
43	43 Total Tetra-Furans				0.824	10.000	23.610		0.000				0.0201	
44	44 1st Func. Penta-Furans				0.963	10.000	26.930		0.000				0.0122	
45	45 Total Penta-Furans				0.963	10.000	29.275		0.000				0.0412	
46	46 Total Hexa-Furans				0.991	10.000	33.555		0.000				0.0354	
47	47 Total Hepta-Furans				0.999	10.000	37.835		0.000				0.0667	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R1\201125R1-6.qld

Last Altered: Wednesday, November 25, 2020 13:55:02 Pacific Standard Time

Printed: Thursday, November 26, 2020 09:35:28 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R1\201125R1-6.qld

Last Altered: Wednesday, November 25, 2020 13:55:02 Pacific Standard Time

Printed: Thursday, November 26, 2020 09:35:28 Pacific Standard Time

Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

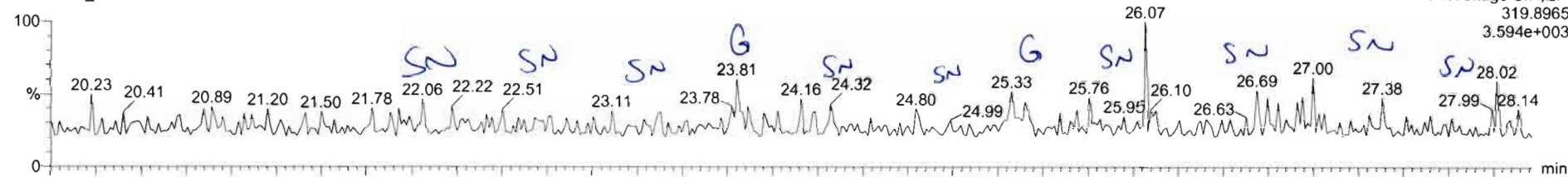
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

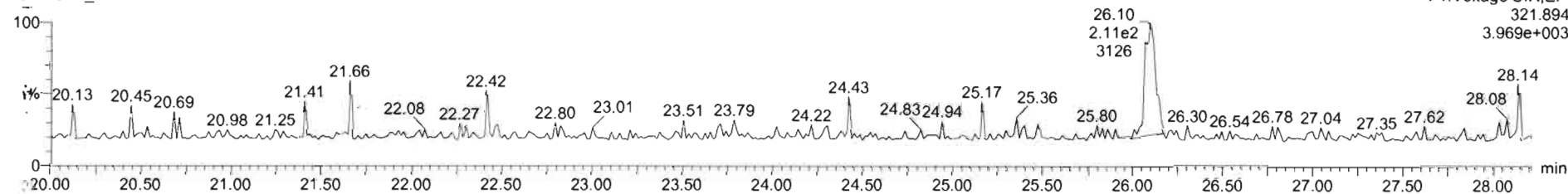
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2,3,7,8-TCDD

201125R1_6

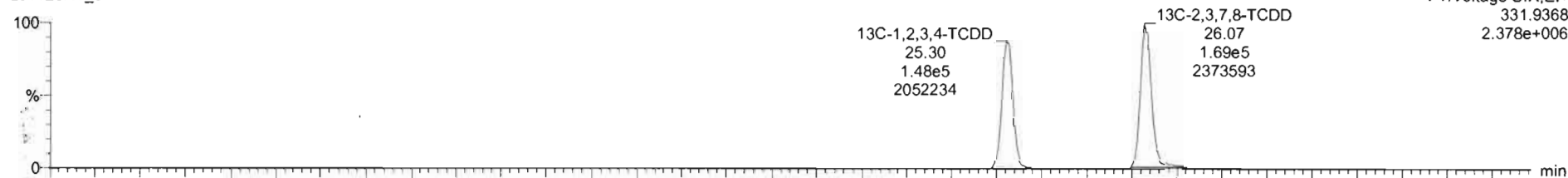


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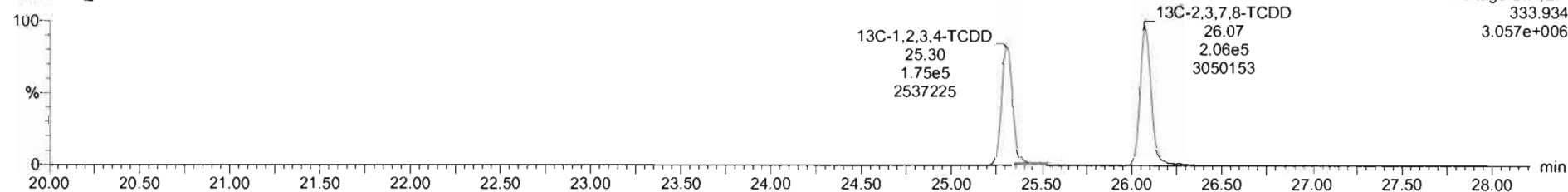


13C-2,3,7,8-TCDD

201125R1_6



201125R1_6



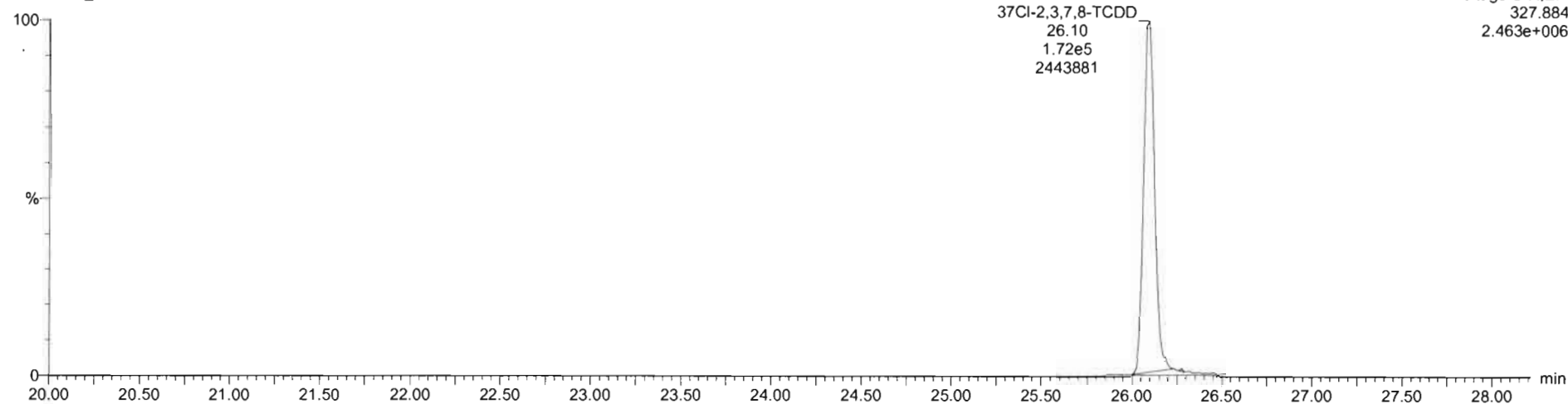
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Last Altered: Thursday, November 26, 2020 07:36:03 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank

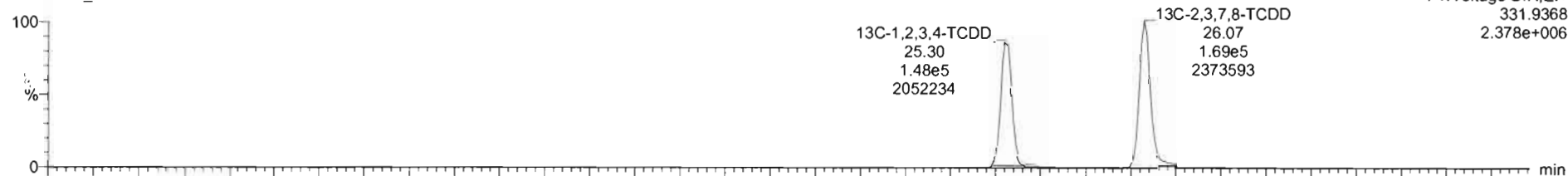
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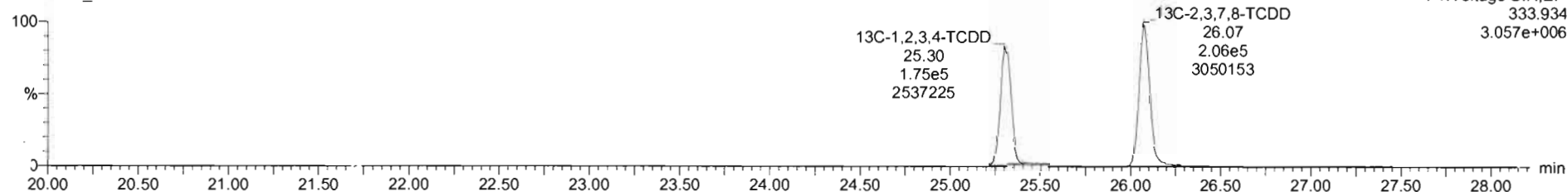


13C-1,2,3,4-TCDD

201125R1_6



201125R1_6



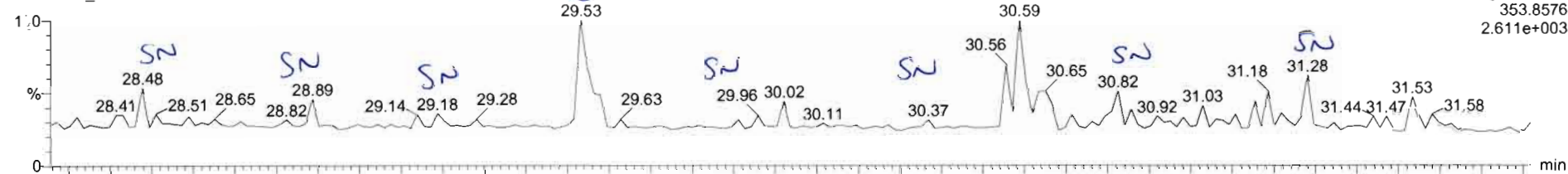
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

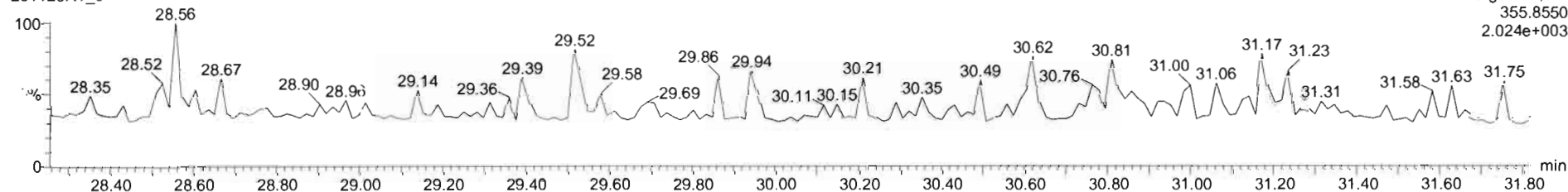
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1,2,3,7,8-PeCDD

201125R1_6

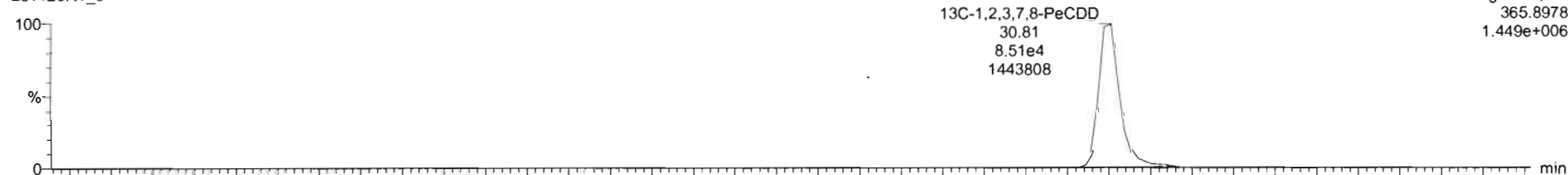


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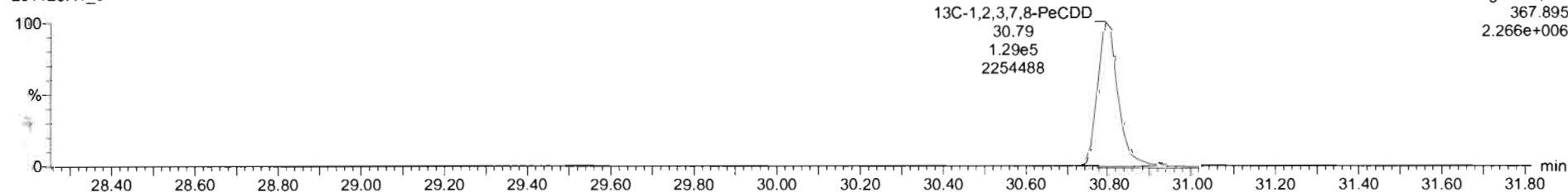


13C-1,2,3,7,8-PeCDD

201125R1_6



201125R1_6

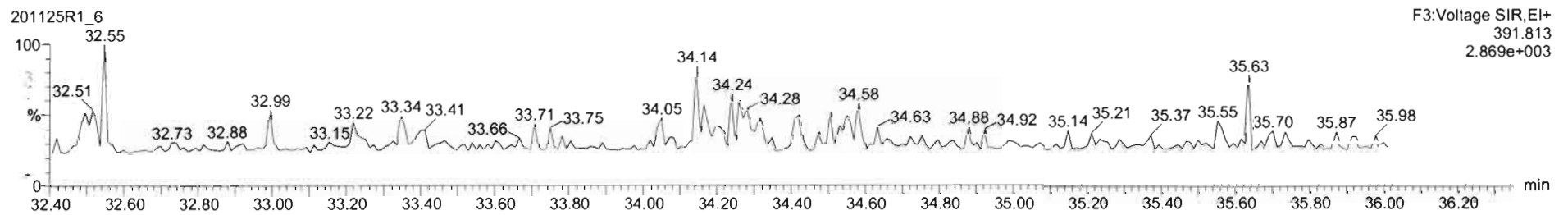
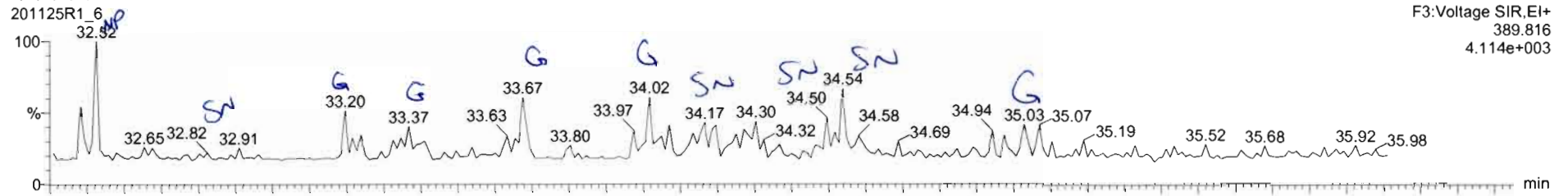


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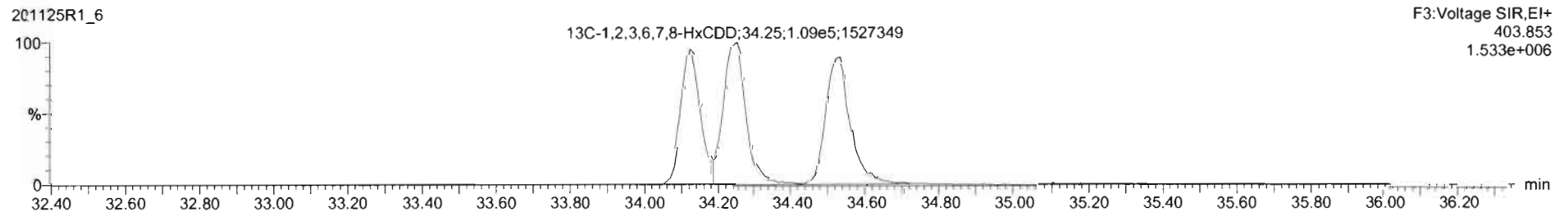
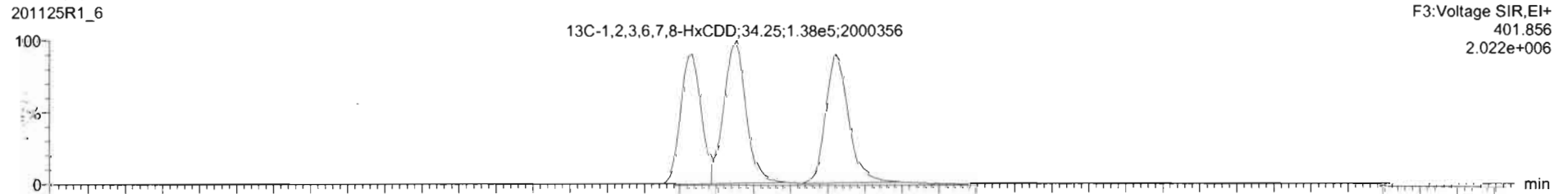
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank

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



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



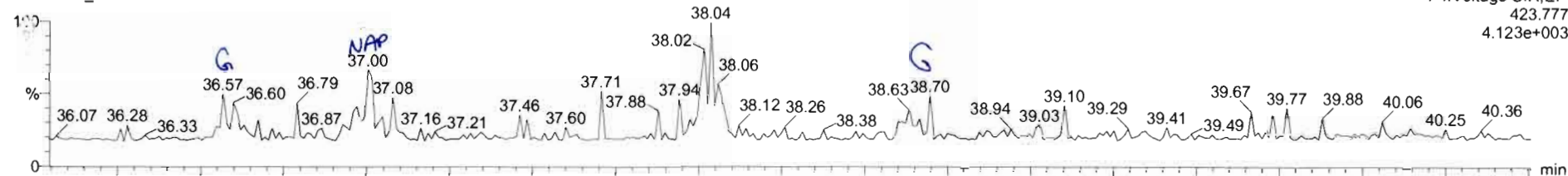
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

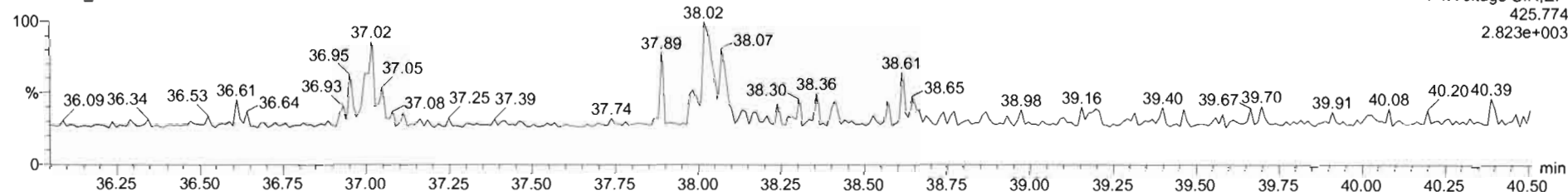
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1,2,3,4,6,7,8-HpCDD

201125R1_6

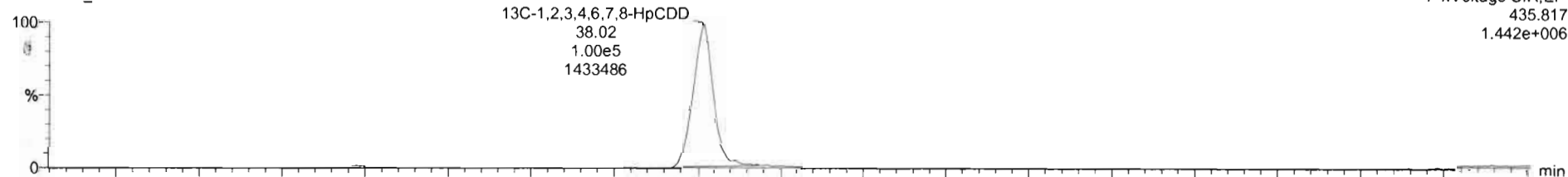


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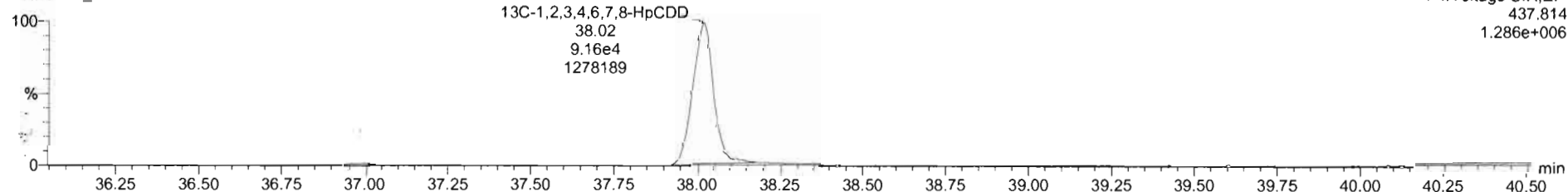


13C-1,2,3,4,6,7,8-HpCDD

201125R1_6



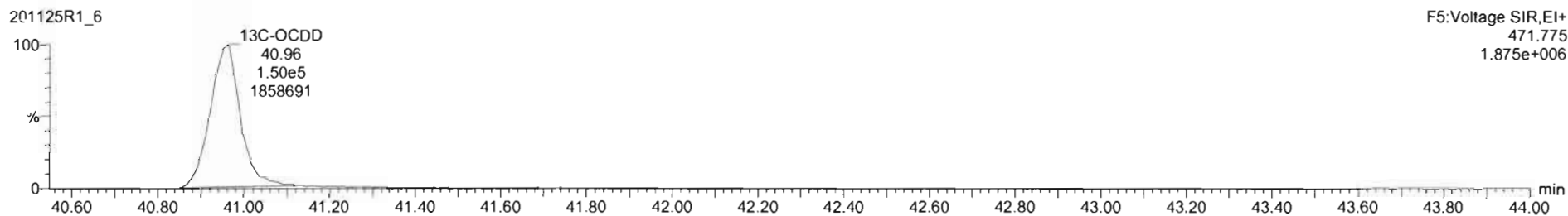
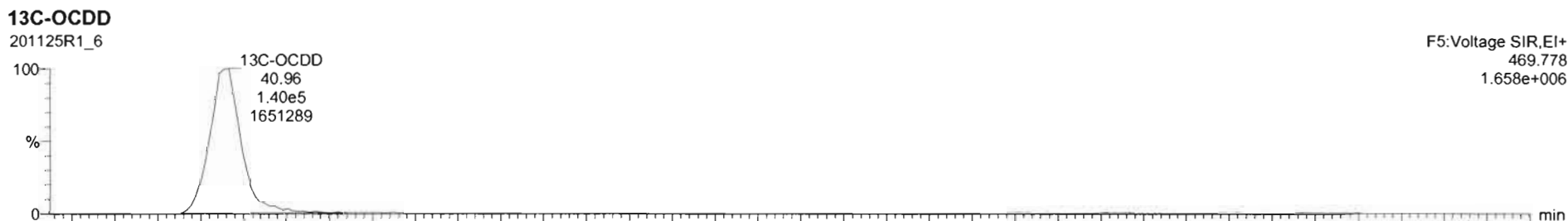
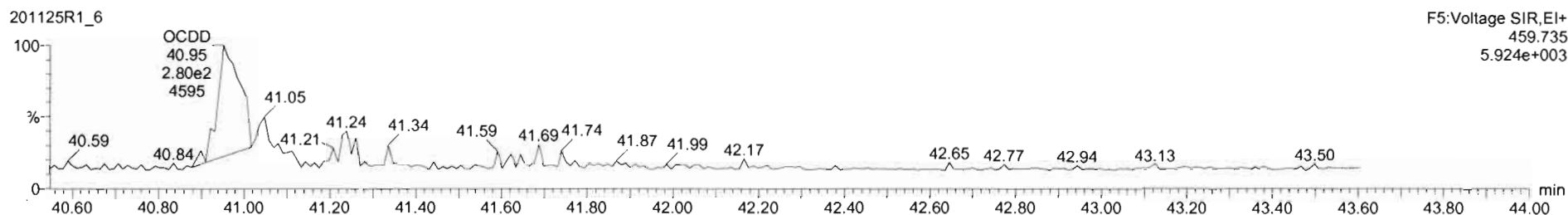
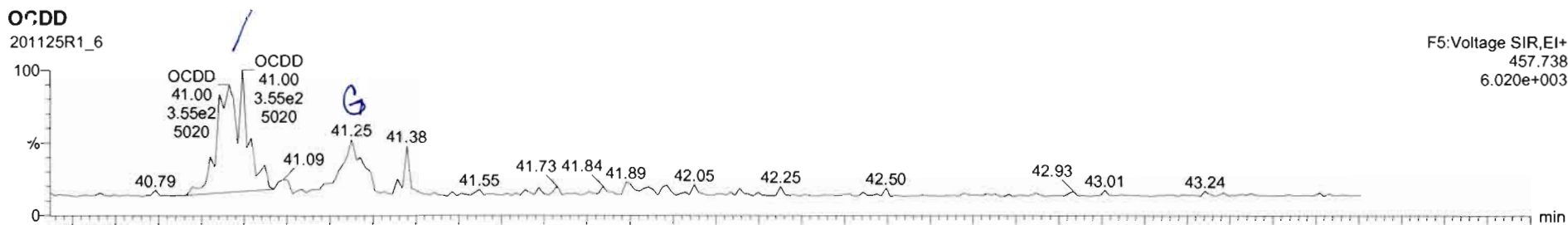
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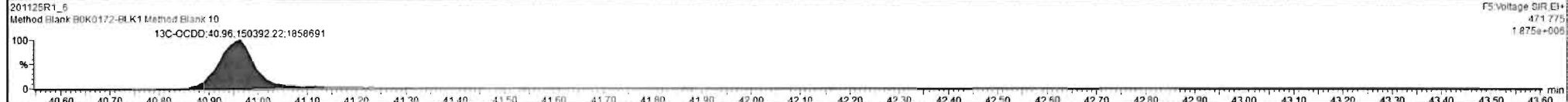
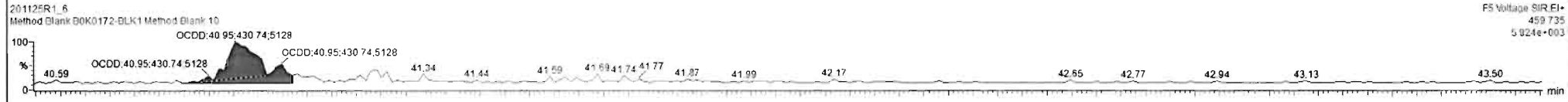
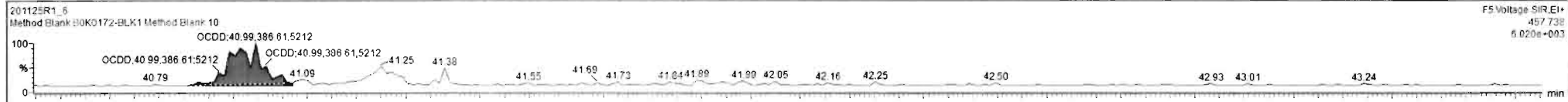
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Last Altered: Thursday, November 26, 2020 07:36:03 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank



#	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.9501	10.000					0.100	
2	1,2,3,7,8-PeCDD			NO	0.8855	10.000					0.152	
3	1,2,3,4,7,8-HxCDD			NO	1.0176	10.000					0.172	
4	1,2,3,6,7,8-HxCDD			NO	0.9145	10.000					0.172	
5	1,2,3,7,8,9-HxCDD			NO	0.9345	10.000					0.186	
6	1,2,3,4,6,7,8-HpCDD			NO	0.8697	10.000					0.208	
7	OCDD	8.17e2	0.90	NO	0.8717	10.000	40.99	1.001	1.29		0.418	1.29
8	2,3,7,8-TCDF			NO	0.8243	10.000					0.0511	
9	1,2,3,7,8-PeCDF			NO	0.9626	10.000					0.0803	
10	2,3,4,7,8-PeCDF			NO	1.0684	10.000					0.0884	
11	1,2,3,4,7,8-HxCDF			NO	0.9535	10.000					0.0593	
12	1,2,3,6,7,8-HxCDF			NO	1.0080	10.000					0.0575	
13	2,3,4,6,7,8-HxCDF			NO	0.9907	10.000					0.0594	
14	1,2,3,7,8,9-HxCDF			NO	0.9506	10.000					0.105	
15	1,2,3,4,6,7,8-HpCDF			NO	0.9986	10.000					0.119	
16	1,2,3,4,7,8,9-HoCDF			NO	1.1238	10.000					0.142	
17	OCDF			NO	0.8682	10.000					0.245	
18	13C-2,3,7,8-TCDD	3.75e5	0.82	NO	1.1089	10.000	26.07	1.030	210	105	0.531	
19	13C-1,2,3,7,8-PeCDD	2.14e5	0.86	NO	0.8585	10.000	30.81	1.218	154	77.2	0.502	
20	13C-1,2,3,4,7,8-HxCDD	2.08e5	1.30	NO	0.6997	10.000	34.13	1.014	164	81.8	0.729	
21	13C-1,2,3,6,7,8-HxCDD	2.48e5	1.27	NO	0.8327	10.000	34.25	1.017	164	81.8	0.612	

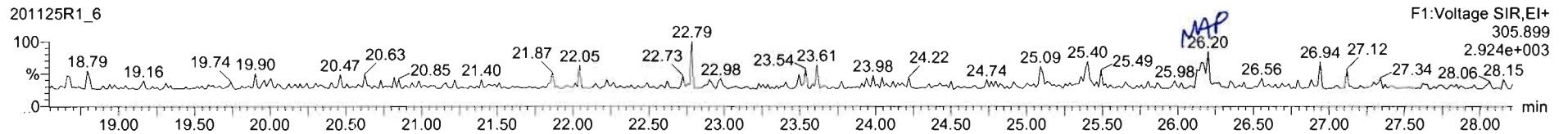
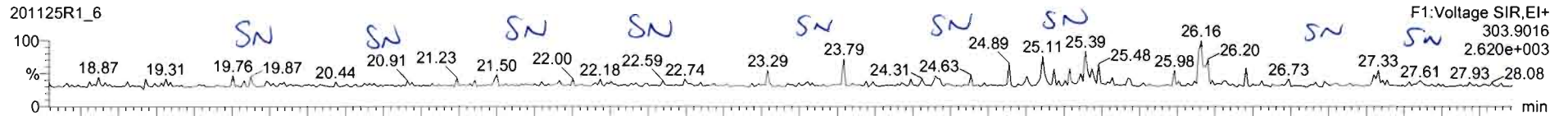


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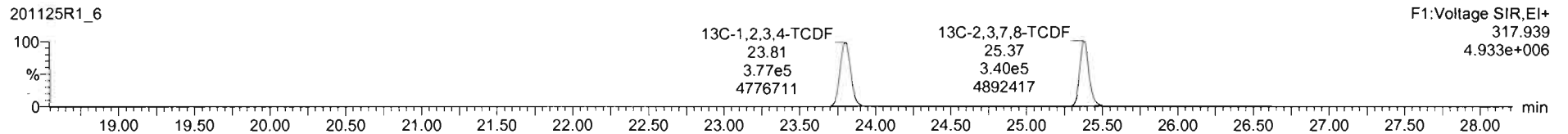
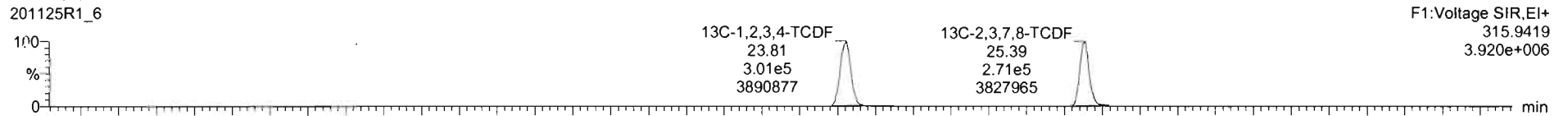
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank

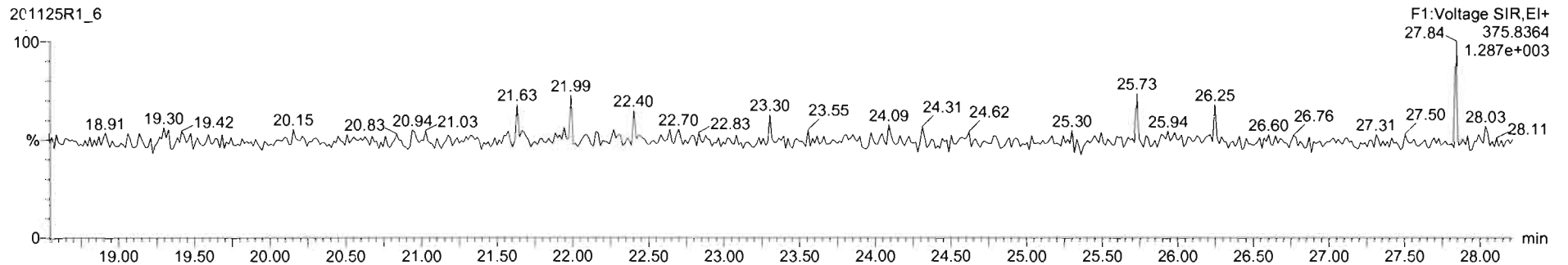
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

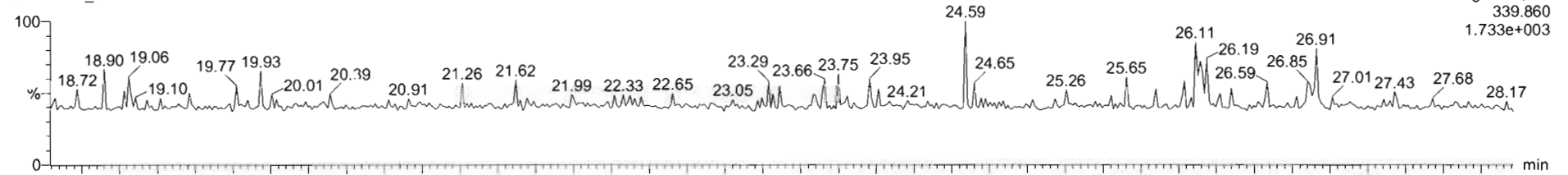
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

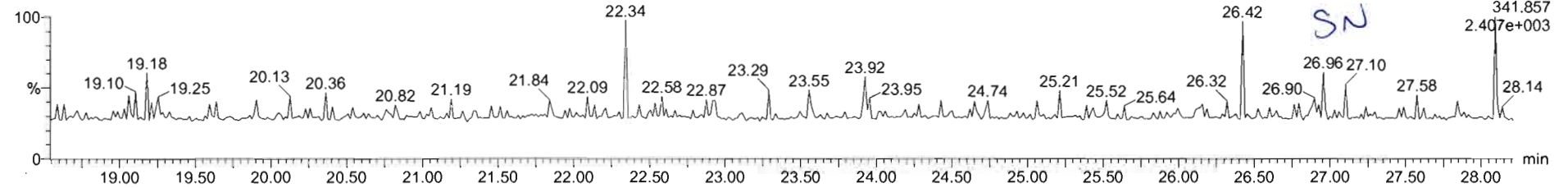
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201125R1_6

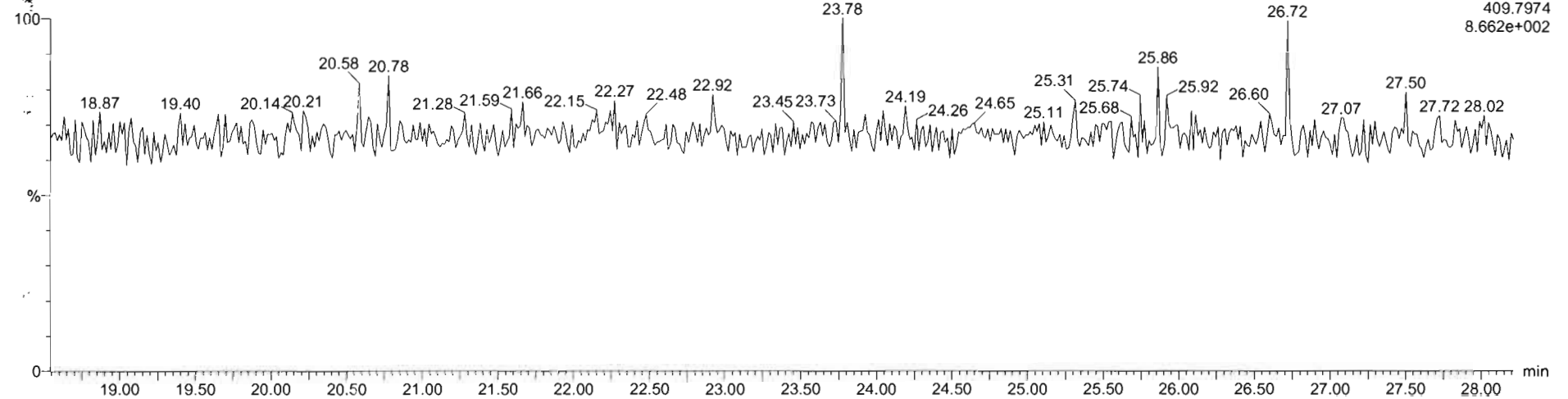


201125R1_6



DPE6

201125R1_6

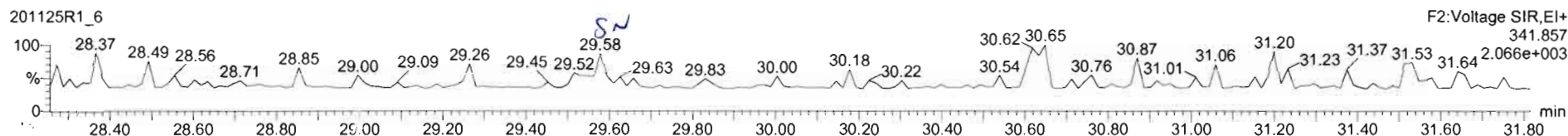
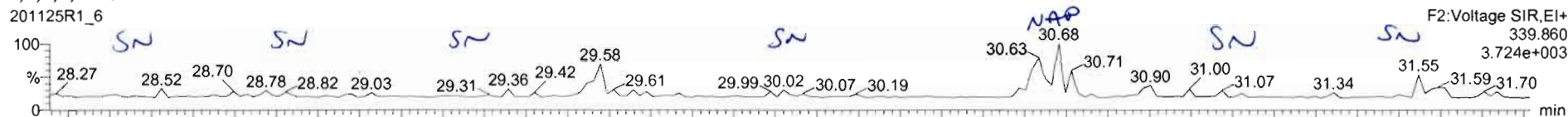


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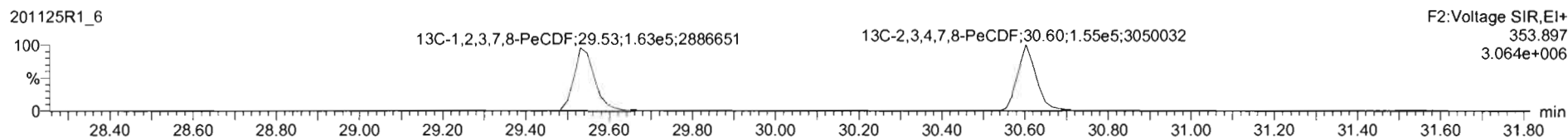
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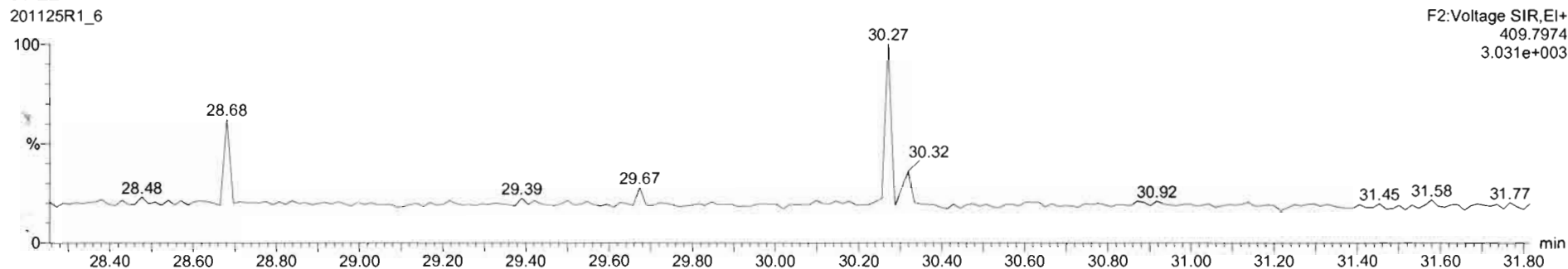
1,2,3,7,8-PeCDF



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



DPE2



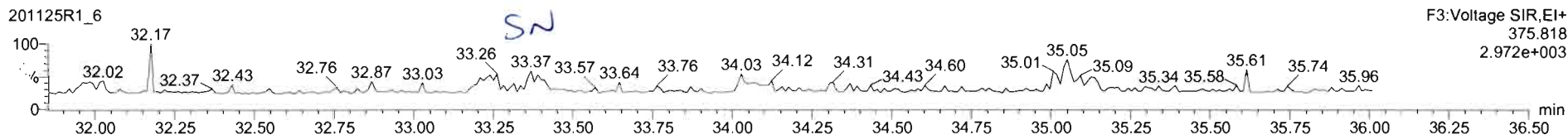
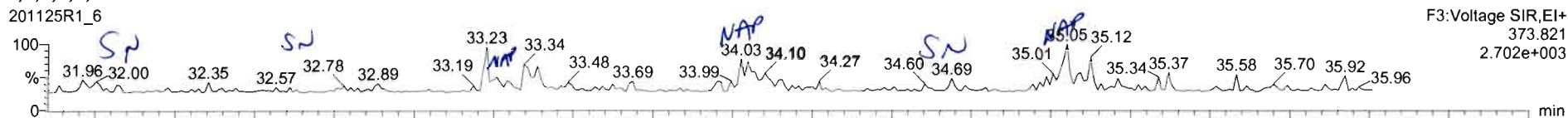
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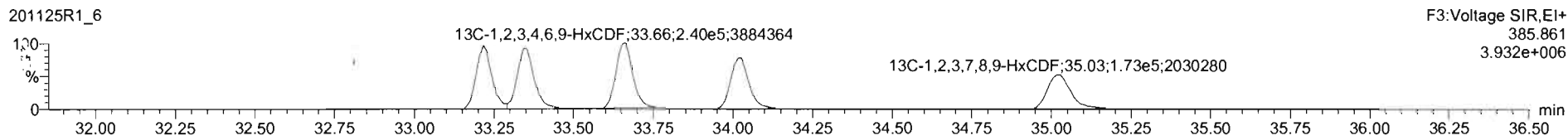
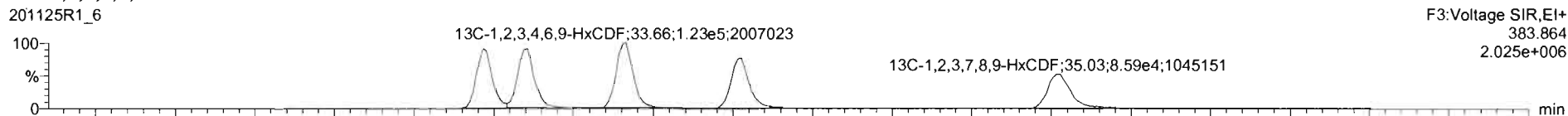
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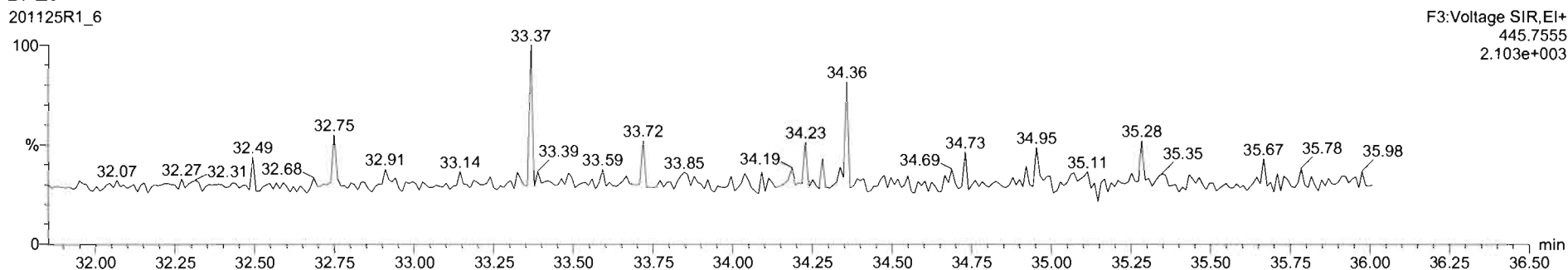
1,2,3,4,7,8-HxCDF



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



DPE3

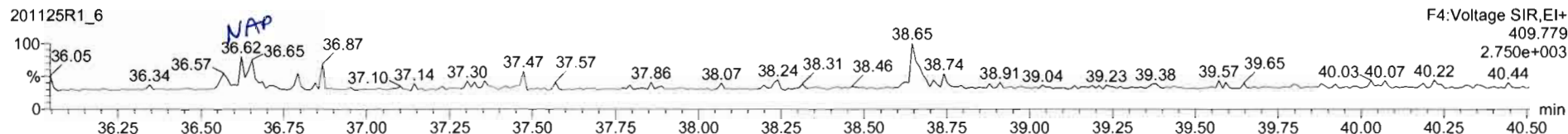
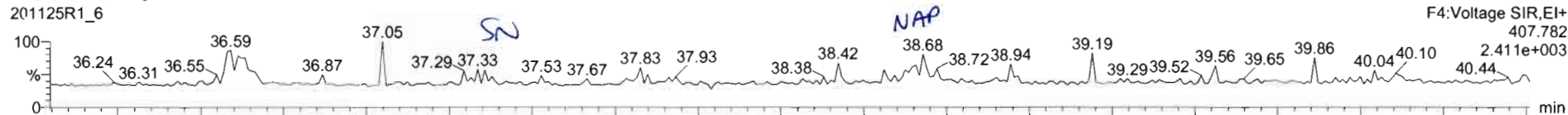


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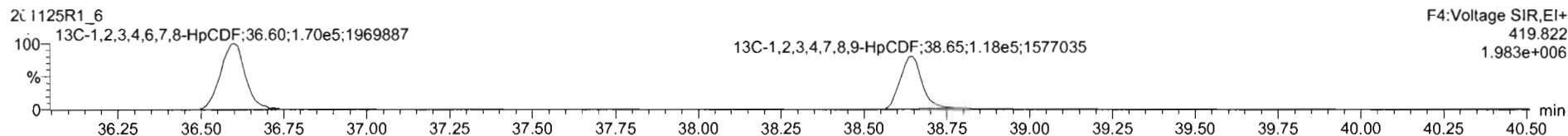
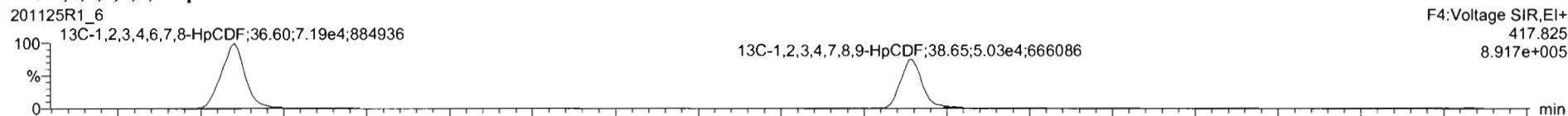
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Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank

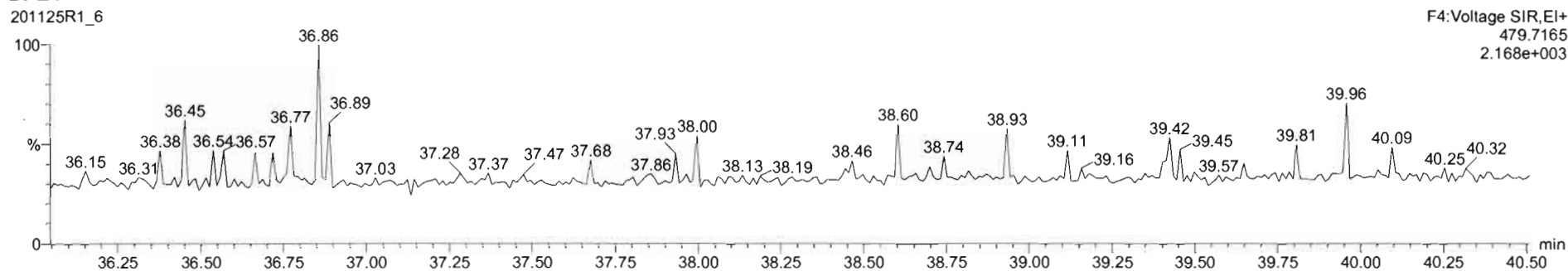
1,2,3,4,6,7,8-HpCDF



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



DPE4

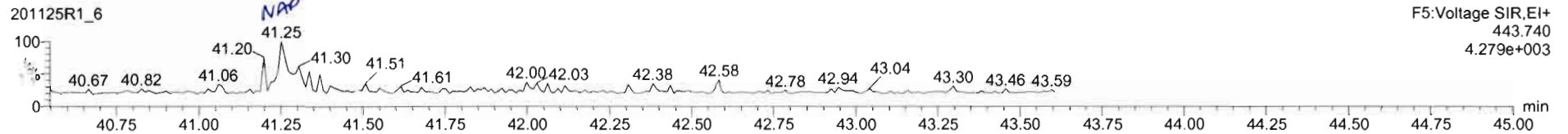
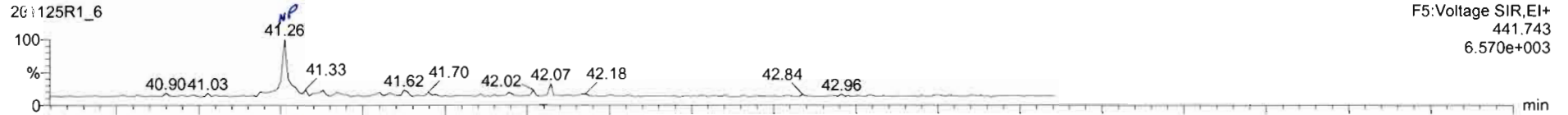


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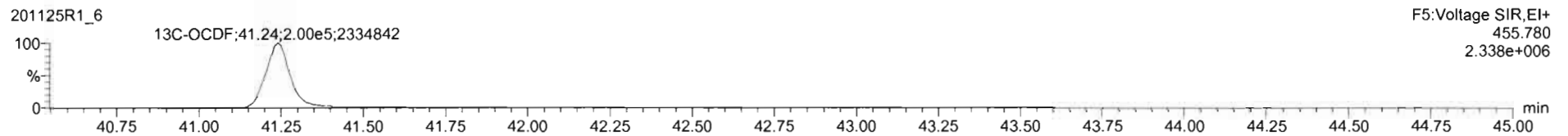
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Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank

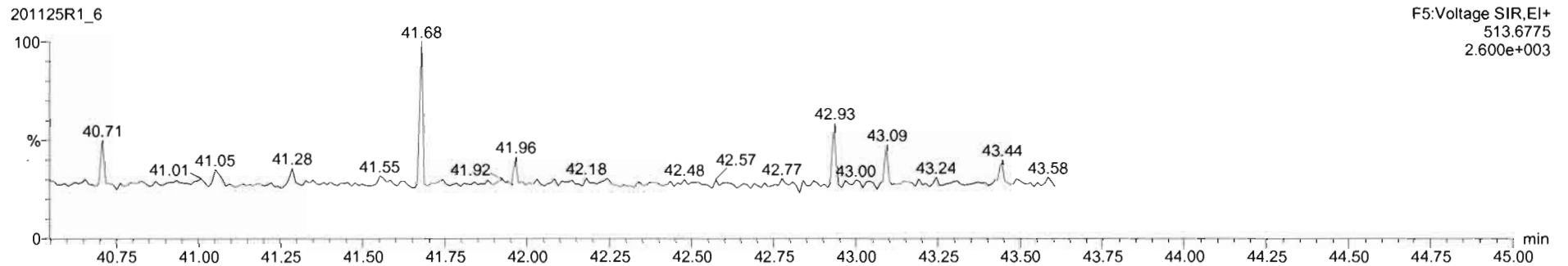
OCDF



13C-OCDF



DPE5

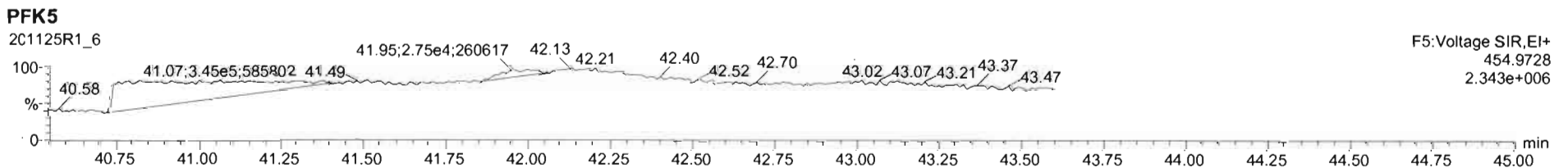
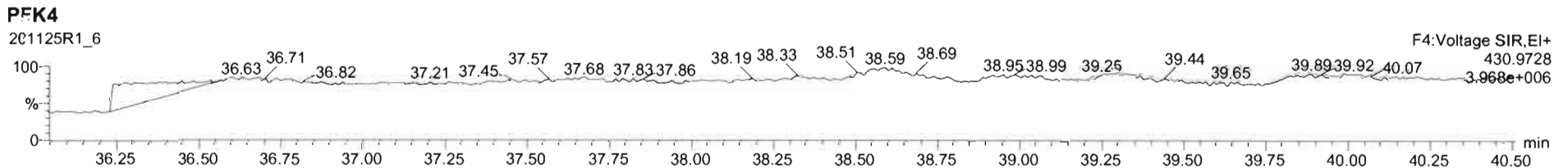
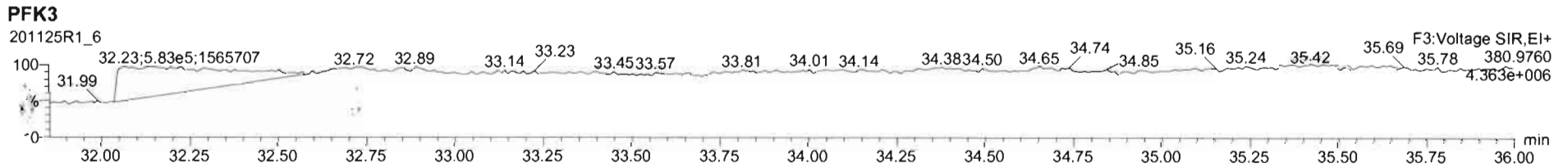
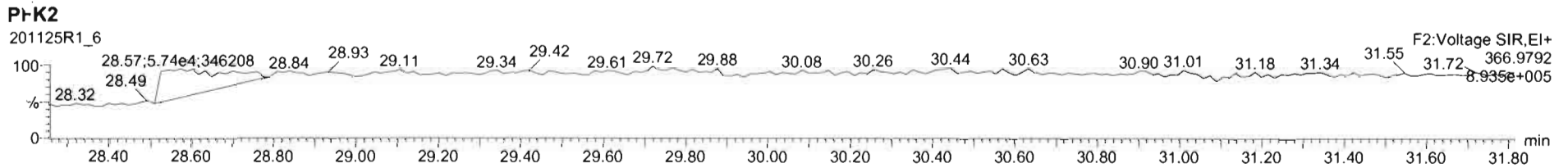
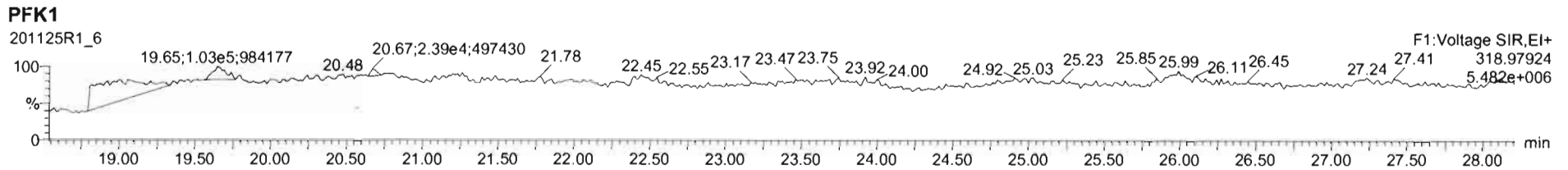


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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\201125R1\201125R1-4.qld

Last Altered: Thursday, November 26, 2020 09:30:35 Pacific Standard Time
Printed: Thursday, November 26, 2020 09:31:14 Pacific Standard Time

GRB 11/26/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

CT 12/04/2020

Name: 201125R1_4, Date: 25-Nov-2020, Time: 11:38:02, ID: B0K0172-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	4.59e4	0.78	NO	0.950	10.000	26.097	26.08	1.001	1.001	26.152		0.141	26.2
2	2 1,2,3,7,8-PeCDD	1.39e5	0.64	NO	0.885	10.000	30.800	30.81	1.000	1.001	135.79		0.511	136
3	3 1,2,3,4,7,8-HxCDD	1.32e5	1.28	NO	1.02	10.000	34.121	34.13	1.000	1.001	115.56		0.546	116
4	4 1,2,3,6,7,8-HxCDD	1.39e5	1.28	NO	0.915	10.000	34.239	34.25	1.000	1.001	114.08		0.552	114
5	5 1,2,3,7,8,9-HxCDD	1.34e5	1.23	NO	0.934	10.000	34.515	34.52	1.000	1.000	116.85		0.599	117
6	6 1,2,3,4,6,7,8-HpCDD	1.00e5	1.02	NO	0.870	10.000	38.006	38.02	1.000	1.000	109.22		0.721	109
7	7 OCDD	1.55e5	0.88	NO	0.872	10.000	40.963	40.99	1.000	1.001	226.21		0.764	226
8	8 2,3,7,8-TCDF	5.39e4	0.73	NO	0.824	10.000	25.381	25.39	1.000	1.001	20.667		0.0860	20.7
9	9 1,2,3,7,8-PeCDF	2.62e5	1.64	NO	0.963	10.000	29.540	29.55	1.000	1.001	119.16		0.463	119
10	10 2,3,4,7,8-PeCDF	2.72e5	1.64	NO	1.07	10.000	30.602	30.62	1.000	1.001	115.92		0.422	116
11	11 1,2,3,4,7,8-HxCDF	1.63e5	1.21	NO	0.953	10.000	33.206	33.23	1.000	1.001	97.855		0.366	97.9
12	12 1,2,3,6,7,8-HxCDF	1.79e5	1.20	NO	1.01	10.000	33.334	33.35	1.000	1.001	97.150		0.356	97.1
13	13 2,3,4,6,7,8-HxCDF	1.58e5	1.21	NO	0.991	10.000	34.008	34.03	1.000	1.001	99.575		0.422	99.6
14	14 1,2,3,7,8,9-HxCDF	1.27e5	1.20	NO	0.951	10.000	34.995	35.02	1.000	1.001	96.819		0.638	96.8
15	15 1,2,3,4,6,7,8-HpCDF	1.27e5	0.99	NO	0.999	10.000	36.583	36.59	1.000	1.000	99.163		0.521	99.2
16	16 1,2,3,4,7,8,9-HpCDF	9.83e4	0.95	NO	1.12	10.000	38.634	38.65	1.000	1.000	96.186		0.562	96.2
17	17 OCDF	1.75e5	0.86	NO	0.868	10.000	41.259	41.27	1.000	1.001	199.56		0.640	200
18	18 13C-2,3,7,8-TCDD	3.69e5	0.80	NO	1.11	10.000	26.058	26.07	1.030	1.030	186.93	93.5	0.467	
19	19 13C-1,2,3,7,8-PeCDD	2.31e5	0.65	NO	0.859	10.000	30.774	30.79	1.216	1.217	150.86	75.4	0.484	
20	20 13C-1,2,3,4,7,8-HxCDD	2.25e5	1.30	NO	0.700	10.000	34.111	34.11	1.014	1.014	156.83	78.4	0.807	
21	21 13C-1,2,3,6,7,8-HxCDD	2.67e5	1.30	NO	0.833	10.000	34.249	34.23	1.018	1.017	156.33	78.2	0.678	
22	22 13C-1,2,3,7,8,9-HxCDD	2.46e5	1.29	NO	0.762	10.000	34.491	34.51	1.025	1.026	157.81	78.9	0.741	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.10e5	1.09	NO	0.650	10.000	37.973	38.01	1.129	1.130	158.23	79.1	0.907	
24	24 13C-OCDD	3.15e5	0.91	NO	0.539	10.000	40.937	40.96	1.217	1.218	285.21	71.3	1.15	
25	25 13C-2,3,7,8-TCDF	6.33e5	0.80	NO	0.981	10.000	25.380	25.37	1.003	1.003	173.88	86.9	0.532	
26	26 13C-1,2,3,7,8-PeCDF	4.56e5	1.69	NO	0.792	10.000	29.506	29.53	1.166	1.167	155.28	77.6	0.736	
27	27 13C-2,3,4,7,8-PeCDF	4.40e5	1.64	NO	0.778	10.000	30.564	30.60	1.208	1.210	152.43	76.2	0.750	
28	28 13C-1,2,3,4,7,8-HxCDF	3.50e5	0.50	NO	0.954	10.000	33.202	33.21	0.987	0.987	179.25	89.6	0.928	
29	29 13C-1,2,3,6,7,8-HxCDF	3.65e5	0.50	NO	1.01	10.000	33.333	33.33	0.991	0.991	177.05	88.5	0.880	
30	30 13C-2,3,4,6,7,8-HxCDF	3.20e5	0.51	NO	0.921	10.000	34.003	34.01	1.011	1.011	169.51	84.8	0.961	
31	31 13C-1,2,3,7,8,9-HxCDF	2.75e5	0.50	NO	0.803	10.000	34.999	34.99	1.040	1.040	167.33	83.7	1.10	

Dataset: U:\VG12.PRO\Results\201125R1\201125R1-4.qld

Last Altered: Thursday, November 26, 2020 09:30:35 Pacific Standard Time

Printed: Thursday, November 26, 2020 09:31:14 Pacific Standard Time

Name: 201125R1_4, Date: 25-Nov-2020, Time: 11:38:02, ID: B0K0172-BS1 OPR 10, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.57e5	0.41	NO	0.735	10.000	36.567	36.58	1.087	1.087	170.55	85.3	0.765	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.82e5	0.41	NO	0.568	10.000	38.602	38.63	1.147	1.148	156.53	78.3	0.991	
34	34 13C-OCDF	4.03e5	0.89	NO	0.629	10.000	41.219	41.25	1.225	1.226	313.03	78.3	0.612	
35	35 37Cl-2,3,7,8-TCDD	1.79e5			1.09	10.000	26.058	26.08	1.030	1.031	92.290	115	0.155	
36	36 13C-1,2,3,4-TCDD	3.56e5	0.83	NO	1.00	10.000	25.370	25.30	1.000	1.000	200.00	100	0.518	
37	37 13C-1,2,3,4-TCDF	7.42e5	0.80	NO	1.00	10.000	23.870	23.79	1.000	1.000	200.00	100	0.522	
38	38 13C-1,2,3,4,6,9-HxCDF	4.10e5	0.49	NO	1.00	10.000	33.710	33.64	1.000	1.000	200.00	100	0.885	

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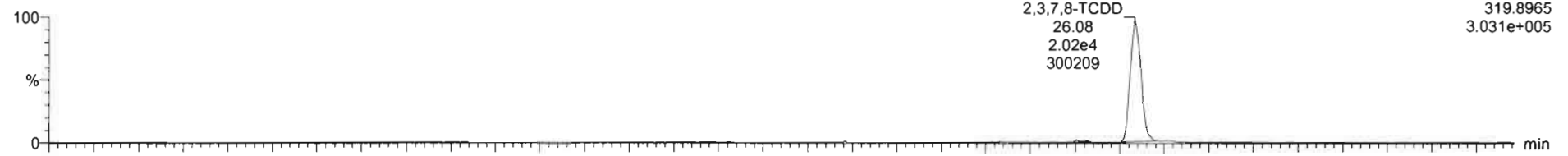
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

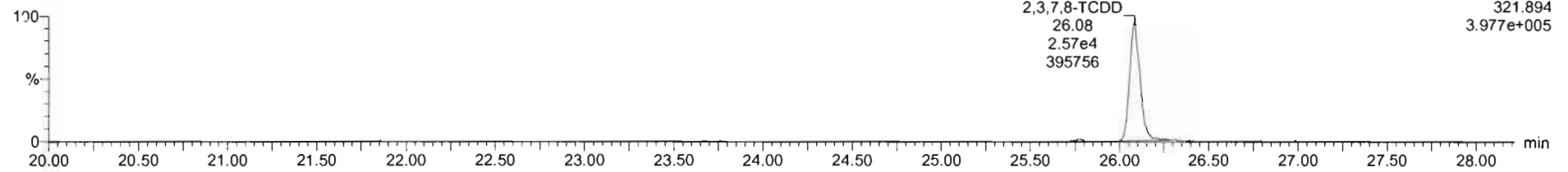
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2,3,7,8-TCDD

201125R1_4

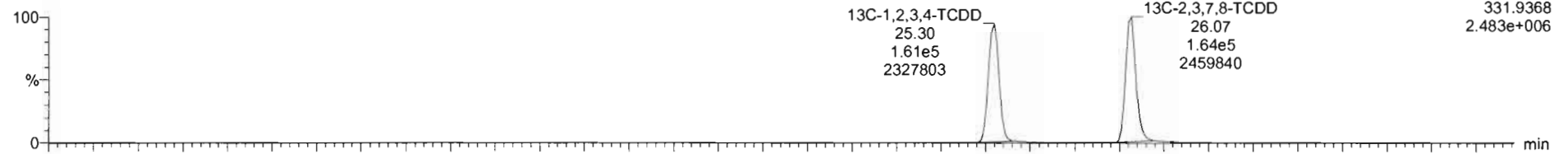


201125R1_4

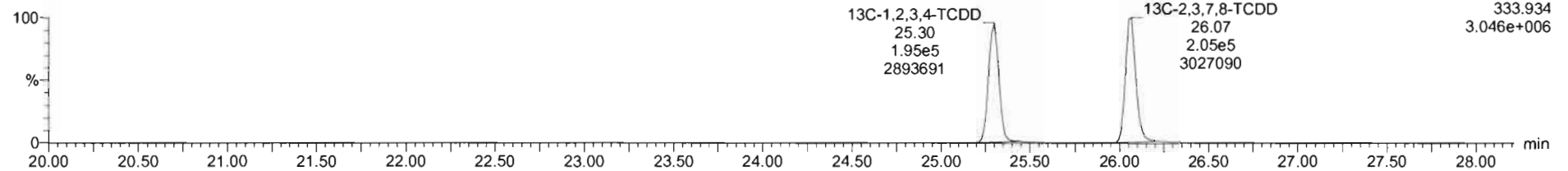


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201125R1_4



201125R1_4



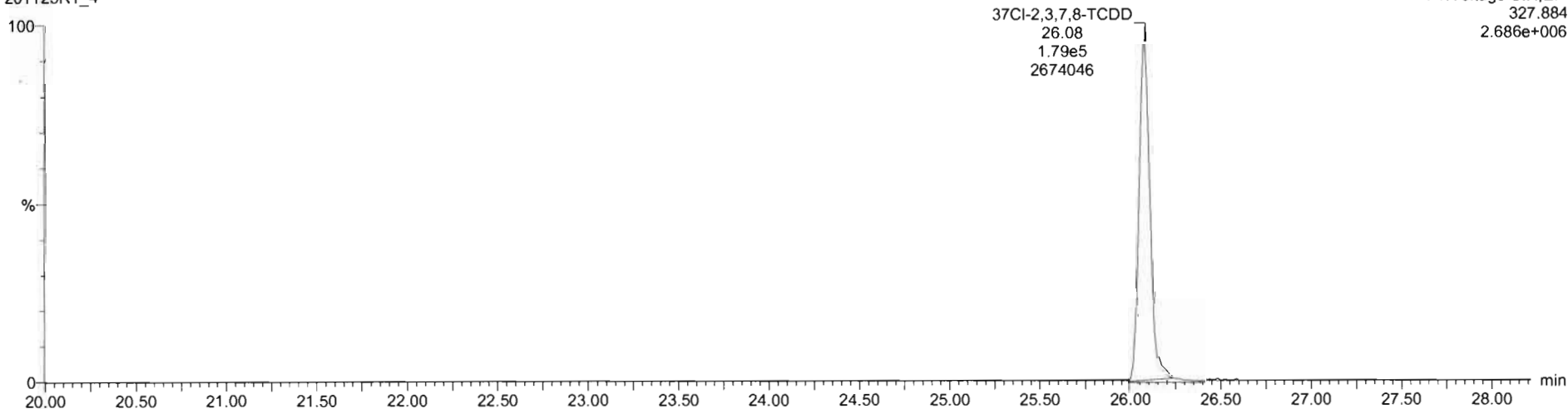
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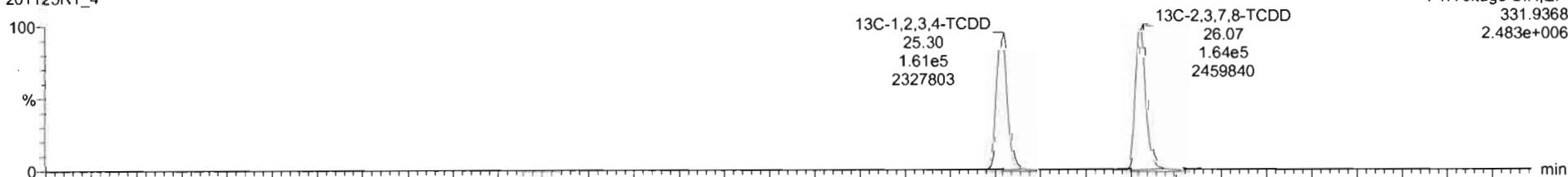
37Cl-2,3,7,8-TCDD

201125R1_4

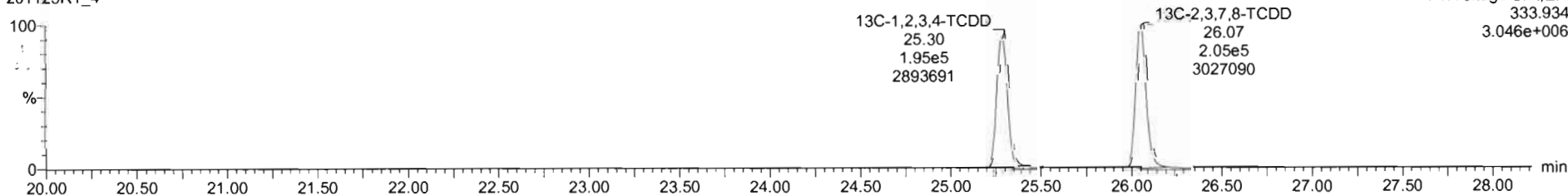


13C-1,2,3,4-TCDD

201125R1_4



201125R1_4



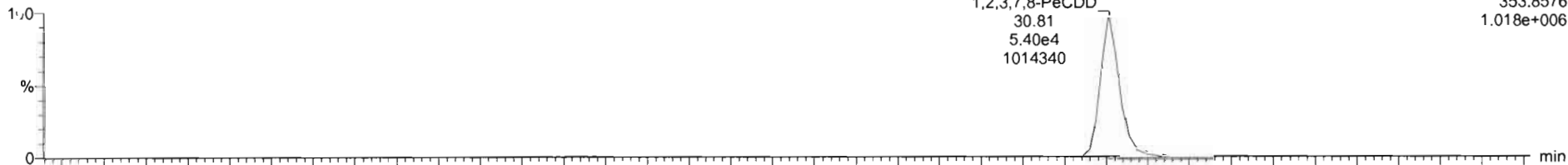
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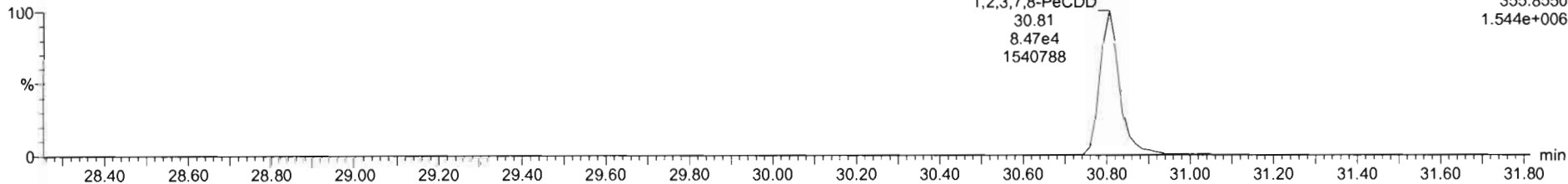
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1,2,3,7,8-PeCDD

201125R1_4

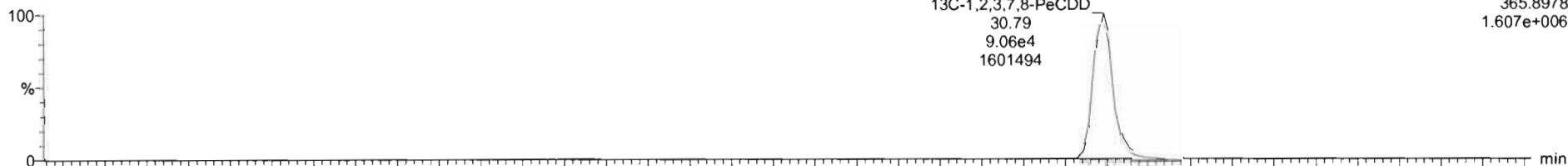


201125R1_4

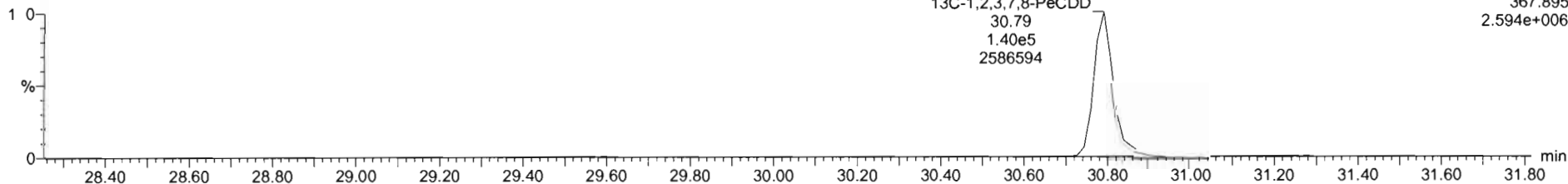


13C-1,2,3,7,8-PeCDD

201125R1_4



201125R1_4



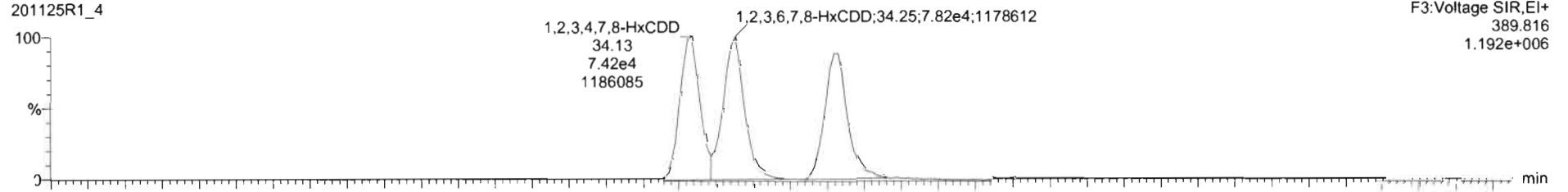
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

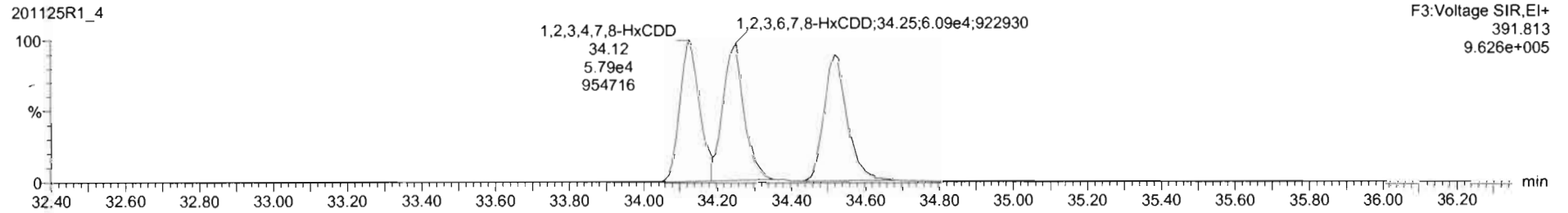
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1,2,3,4,7,8-HxCDD

201125R1_4

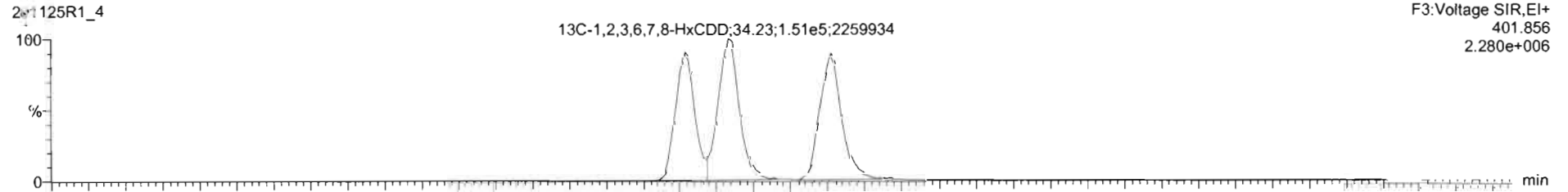


201125R1_4

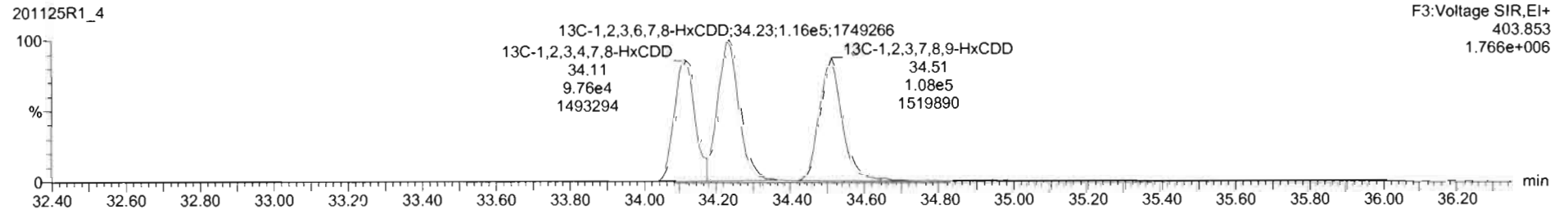


13C-1,2,3,4,7,8-HxCDD

201125R1_4



201125R1_4



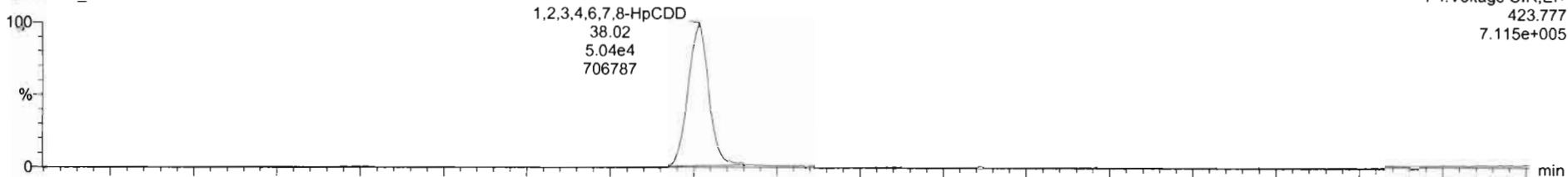
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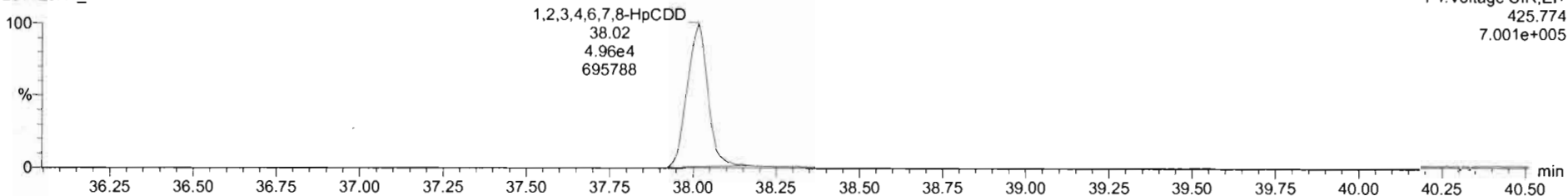
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1,2,3,4,6,7,8-HpCDD

201125R1_4

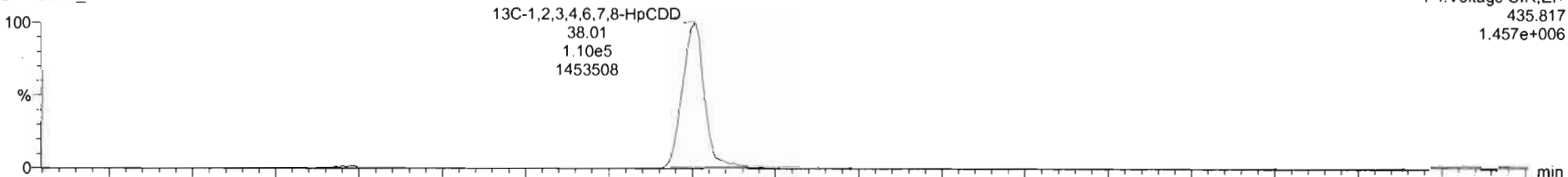


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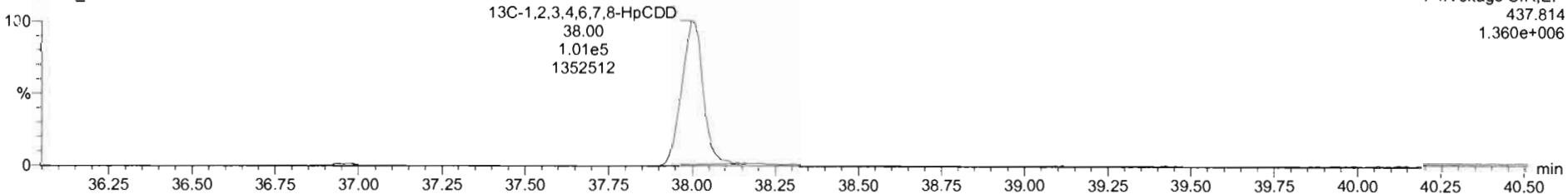


13C-1,2,3,4,6,7,8-HpCDD

201125R1_4



201125R1_4



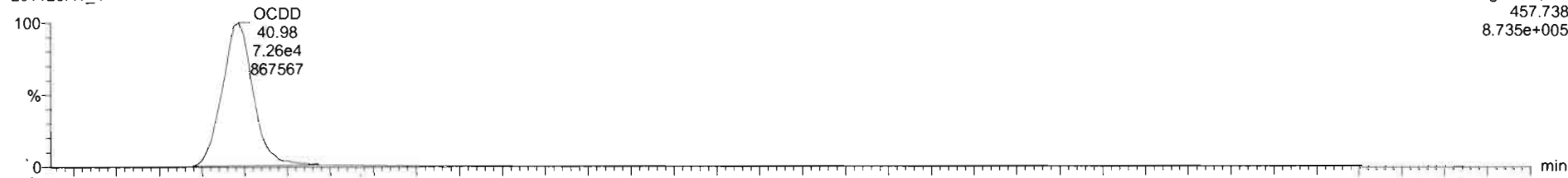
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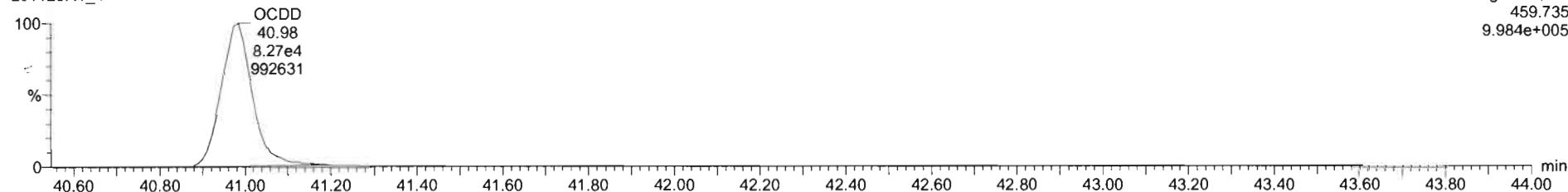
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OCDD

201125R1_4

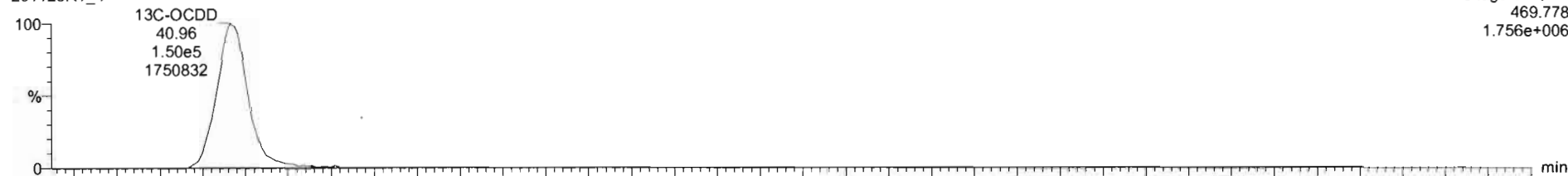


201125R1_4

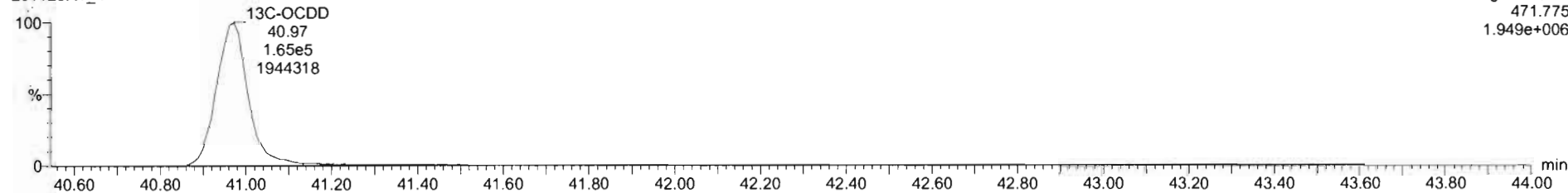


13C-OCDD

201125R1_4



201125R1_4



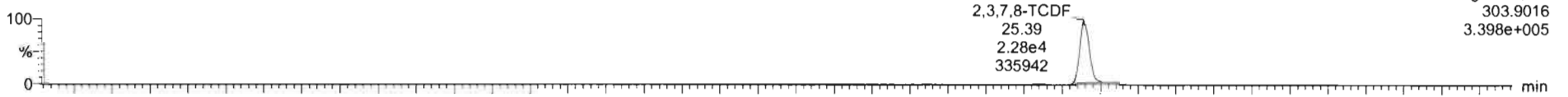
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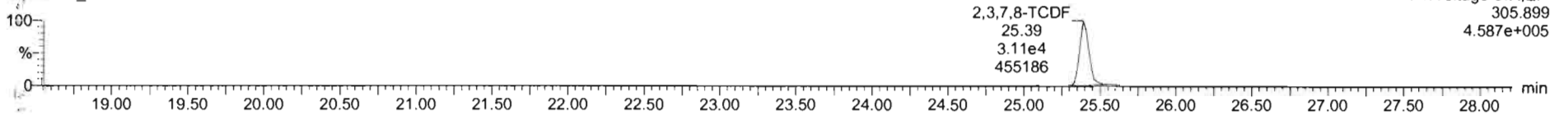
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2,3,7,8-TCDF

201125R1_4

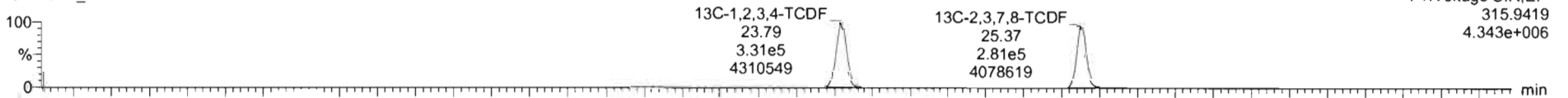


201125R1_4

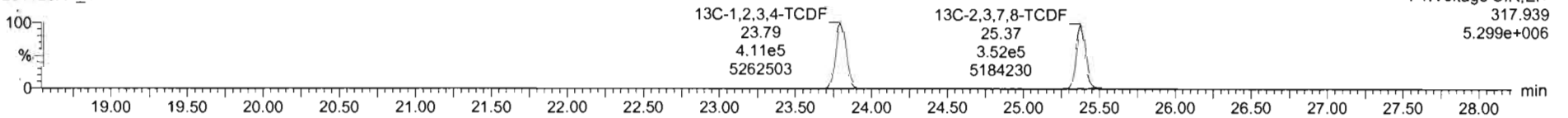


13C-2,3,7,8-TCDF

201125R1_4

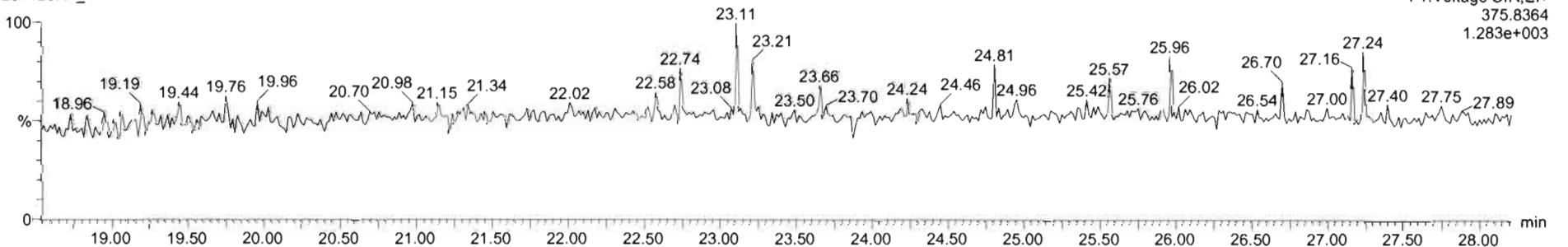


201125R1_4



DPE1

201125R1_4



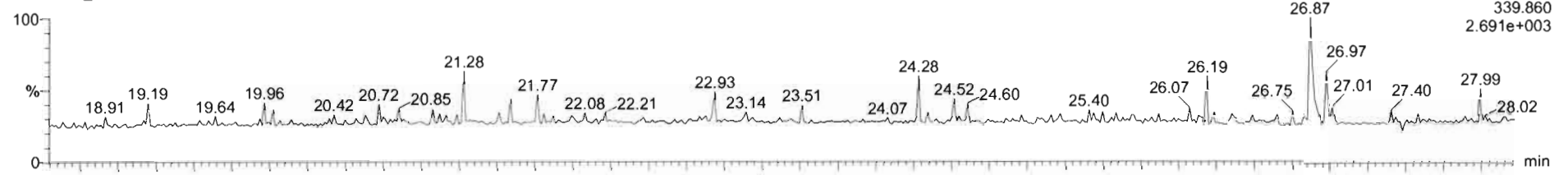
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Last Altered: Thursday, November 26, 2020 07:36:03 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

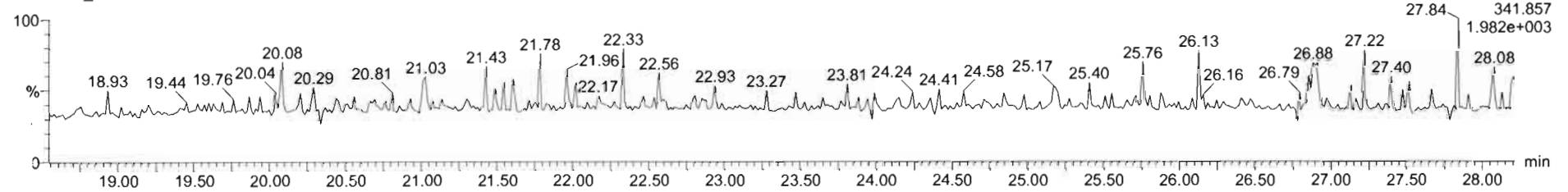
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201125R1_4

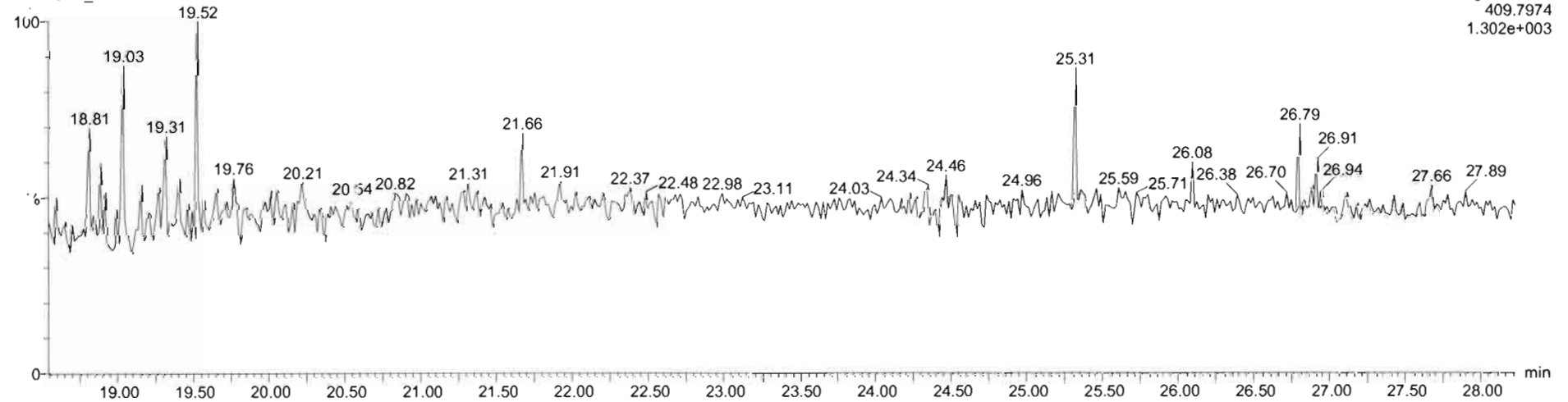


201125R1_4



DPE6

201125R1_4



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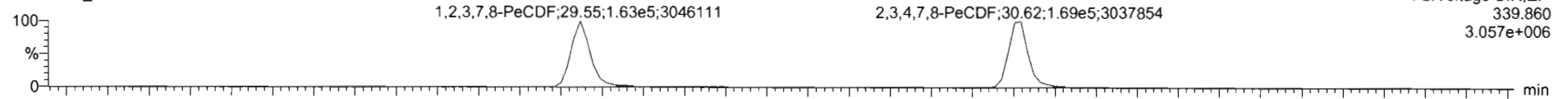
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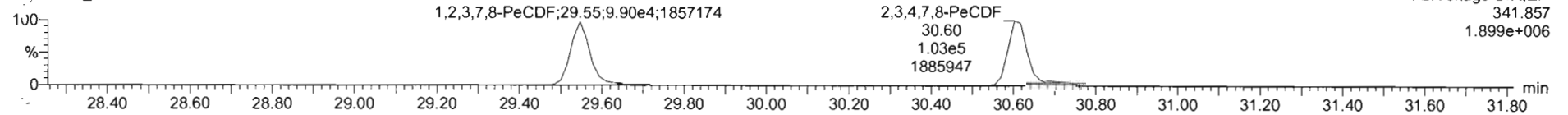
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1,2,3,7,8-PeCDF

201125R1_4

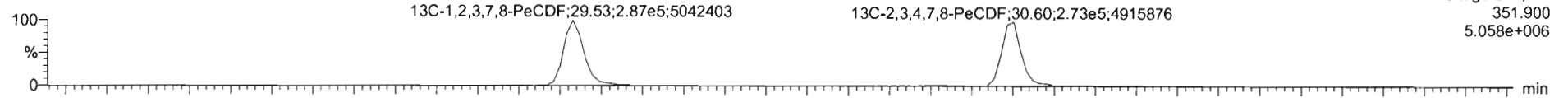


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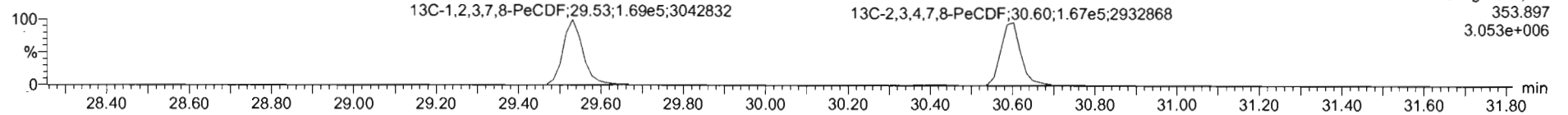


13C-1,2,3,7,8-PeCDF

201125R1_4

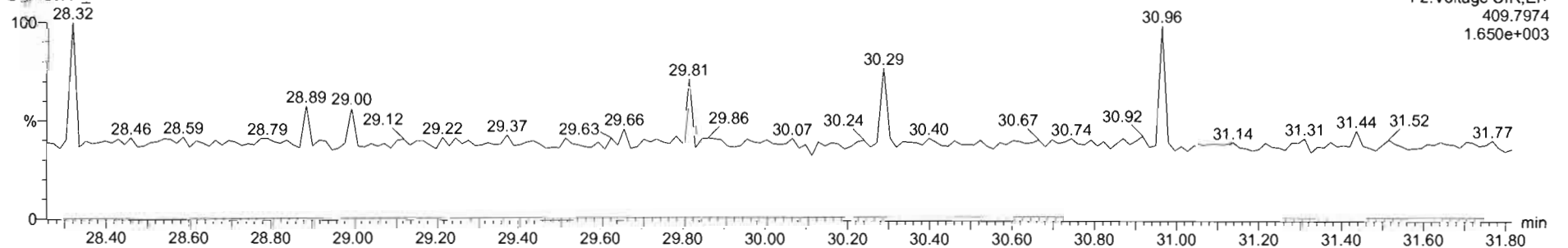


201125R1_4



DPE2

201125R1_4



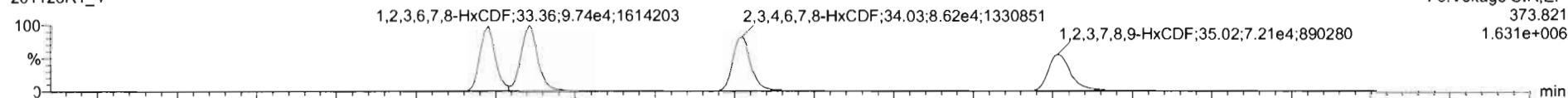
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

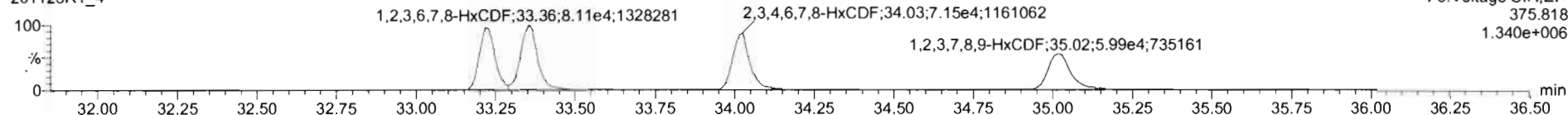
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1,2,3,4,7,8-HxCDF

201125R1_4

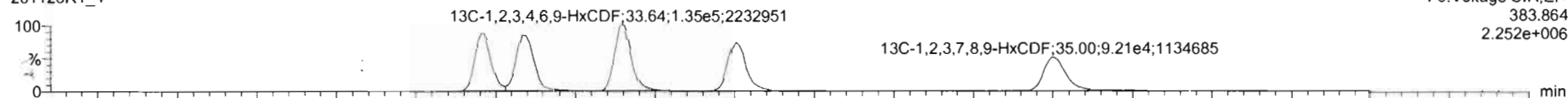


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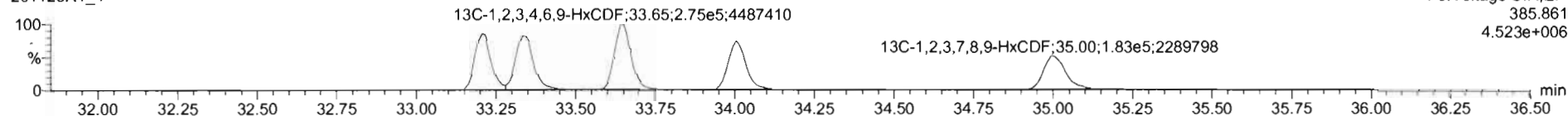


13C-1,2,3,4,7,8-HxCDF

201125R1_4

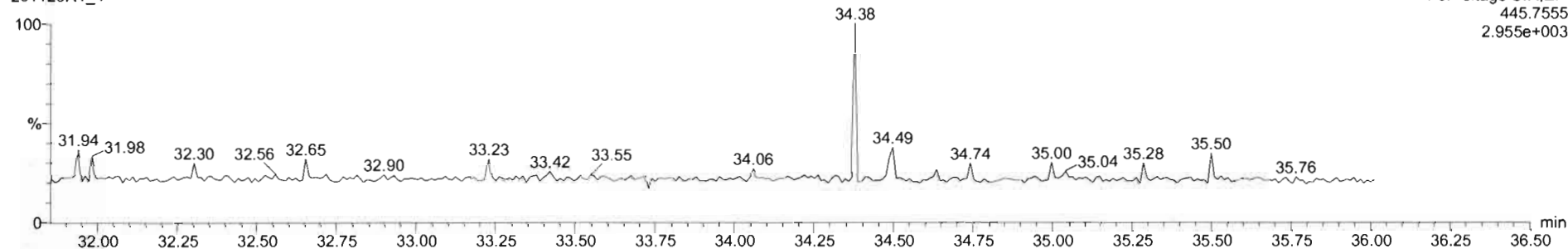


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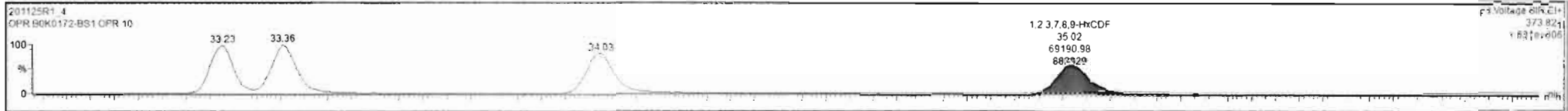
DPE3

201125R1_4



201125R1_4 - B0K0172-BS1 OPR 10 - OPR

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPD
1 2,3,7,8-TCDD	4.59e4	0.78	NO	0.9591	10.000	28.08	1.001	28.2		0.141	28.2
2 1,2,3,7,8-PeCDD	1.39e5	0.64	NO	0.8655	10.000	30.81	1.001	135		0.511	135
3 1,2,3,4,7,8-HxCDD	1.32e5	1.28	NO	1.0176	10.000	34.13	1.001	116		0.546	116
4 1,2,3,6,7,8-HxCDD	1.39e5	1.26	NO	0.9145	10.000	34.25	1.001	114		0.562	114
5 1,2,3,7,8,9-HxCDD	1.34e5	1.23	NO	0.9345	10.000	34.52	1.000	117		0.589	117
6 1,2,3,4,6,7,8-HpCDD	1.00e5	1.02	NO	0.8697	10.000	38.02	1.000	109		0.721	109
7 OCDD	1.55e5	0.88	NO	0.8717	10.000	40.99	1.001	228		0.784	228
8 2,3,7,8-TCDF	5.39e4	0.73	NO	0.8243	10.000	25.39	1.001	20.7		0.0009	20.7
9 1,2,3,7,8-PeCDF	2.62e5	1.84	NO	0.9626	10.000	29.55	1.001	119		0.481	119
10 2,3,4,7,8-PeCDF	2.72e5	1.84	NO	1.0684	10.000	30.62	1.001	116		0.422	116
11 1,2,3,4,7,8-HxCDF	1.63e5	1.21	NO	0.9535	10.000	33.23	1.001	97.9		0.386	97.9
12 1,2,3,6,7,8-HxCDF	1.79e5	1.20	NO	1.0080	10.000	33.35	1.001	97.1		0.356	97.1
13 2,3,4,6,7,8-HxCDF	1.58e5	1.21	NO	0.9907	10.000	34.03	1.001	99.0		0.422	99.0
14 1,2,3,7,8,9-HxCDF	1.27e5	1.20	NO	0.9506	10.000	35.02	1.001	96.8		0.636	96.8
15 1,2,3,4,6,7,8-HpCDF	1.27e5	0.99	NO	0.9886	10.000	36.59	1.000	99.2		0.521	99.2
16 1,2,3,4,7,8,9-HpCDF	9.83e4	0.95	NO	1.1238	10.000	38.65	1.000	98.2		0.582	98.2
17 OCDF	1.75e5	0.86	NO	0.8682	10.000	41.27	1.001	200		0.640	200
18 13C-2,3,7,8-TCDD	3.69e5	0.80	NO	1.1089	10.000	26.07	1.030	187	93.6	0.487	
19 13C-1,2,3,7,8-PeCDD	2.31e5	0.85	NO	0.8585	10.000	30.79	1.217	151	75.4	0.484	
20 13C-1,2,3,4,7,8-HxCDD	2.25e5	1.30	NO	0.8997	10.000	34.11	1.014	157	78.4	0.807	
21 13C-1,2,3,6,7,8-HxCDD	2.67e5	1.30	NO	0.8327	10.000	34.23	1.017	156	78.2	0.873	



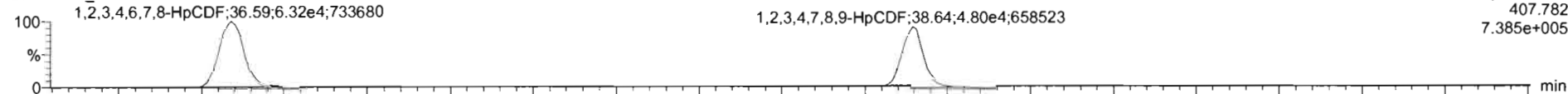
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

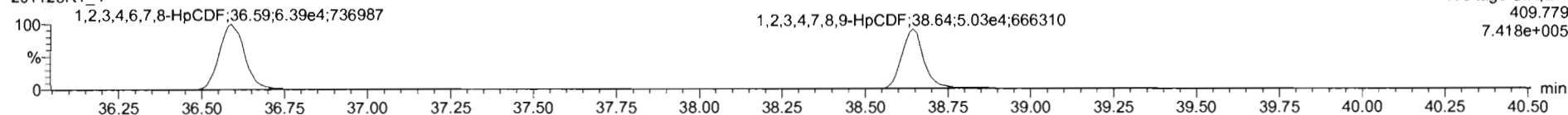
Name: 201125R1_4, Date: 25-Nov-2020, Time: 11:38:02, ID: B0K0172-BS1 OPR 10, Description: OPR

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

201125R1_4

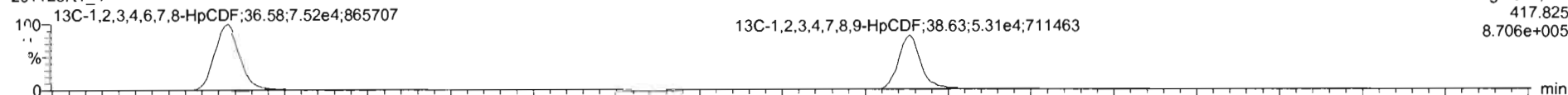


201125R1_4

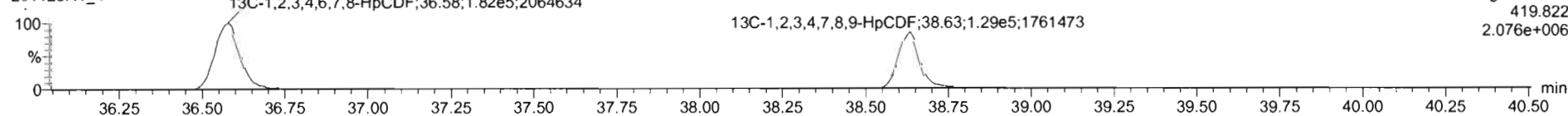


13C-1,2,3,4,6,7,8-HpCDF

201125R1_4

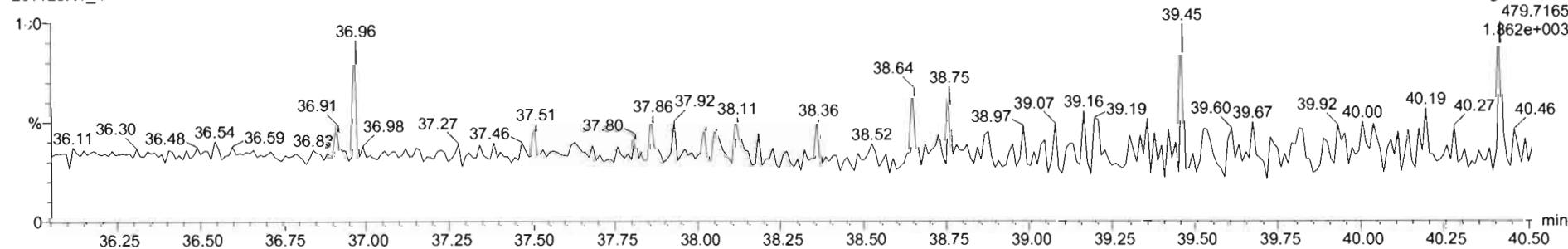


201125R1_4



DPE4

201125R1_4



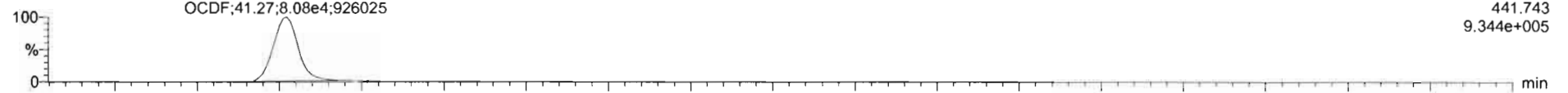
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Last Altered: Thursday, November 26, 2020 07:36:03 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

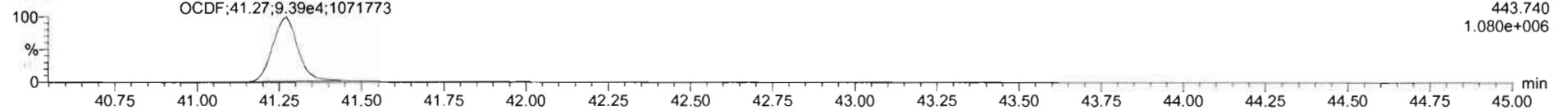
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OCDF

201125R1_4

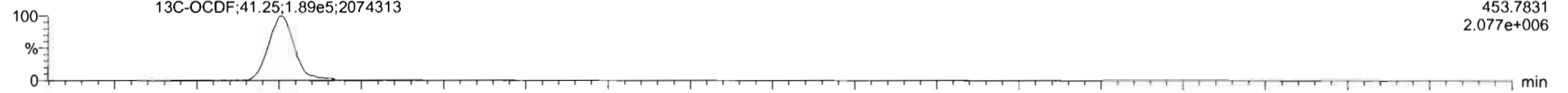


201125R1_4

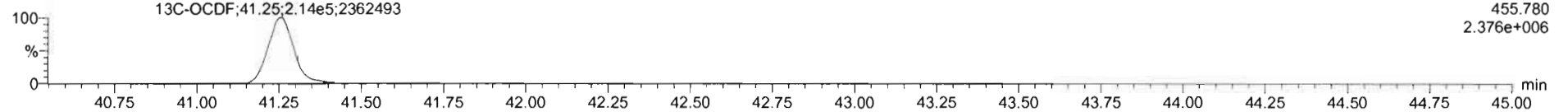


13C-OCDF

201125R1_4

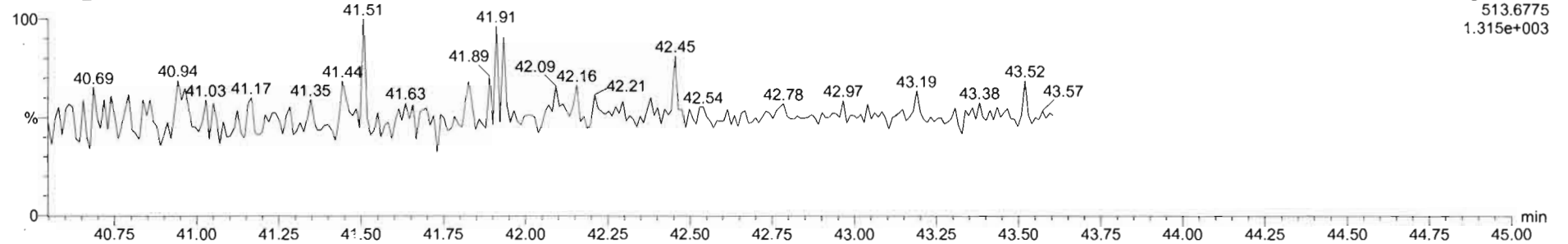


201125R1_4



DPE5

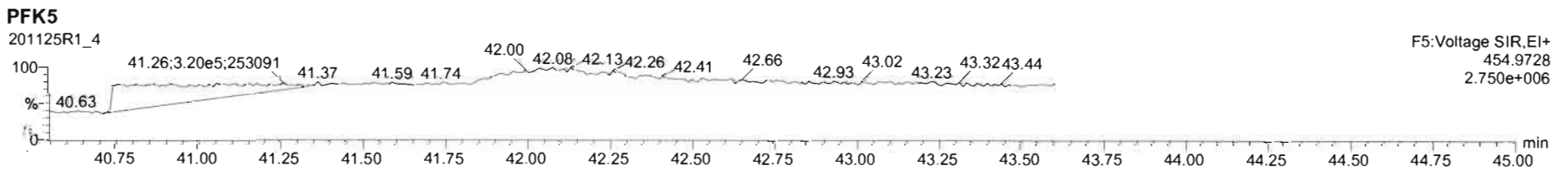
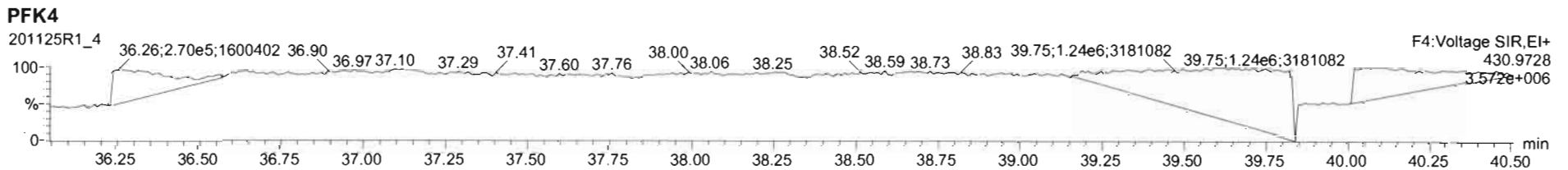
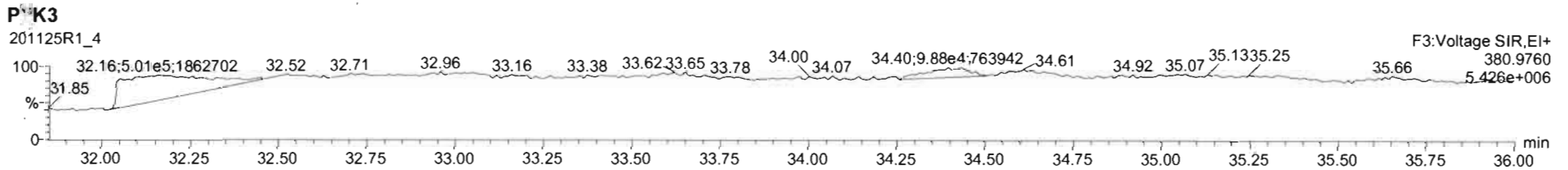
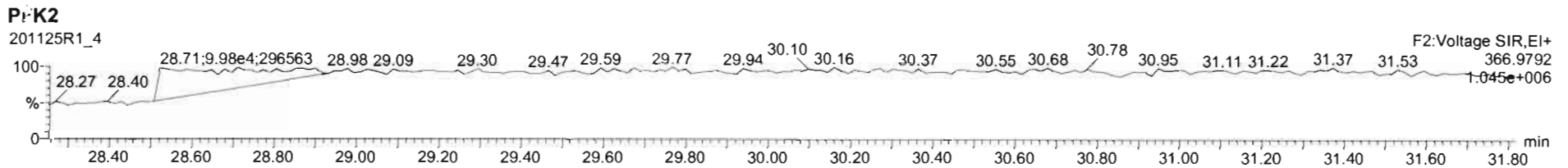
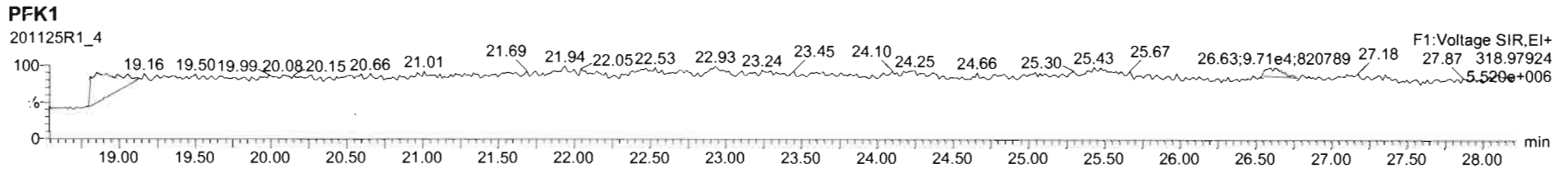
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

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Dataset: U:\VG12.PRO\Results\201125R2\201125R2-5.qld

Last Altered: Tuesday, December 01, 2020 11:15:03 AM Pacific Standard Time

Printed: Tuesday, December 01, 2020 11:19:01 AM Pacific Standard Time

GPB 12/01/2020

C7 12/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R2_5, Date: 26-Nov-2020, Time: 00:31:21, ID: 2002374-01 USMPDI-046SC-A-01-02-201029 11.36, Description: USMPDI-046SC-A-01-02-201029

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.950	10.072	26.126		1.001				0.0814	
2	2 1,2,3,7,8-PeCDD			NO	0.885	10.072	30.831		1.000				0.284	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.072	34.164		1.000				0.161	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.072	34.281		1.000				0.166	
5	5 1,2,3,7,8,9-HxCDD			NO	0.934	10.072	34.558		1.000				0.171	
6	6 1,2,3,4,6,7,8-HpCDD	2.33e3	1.07	NO	0.870	10.072	38.048	38.07	1.000	1.001	2.5360		0.206	2.54
7	7 OCDD	1.85e4	0.92	NO	0.872	10.072	41.027	41.04	1.000	1.000	28.074		0.461	28.1
8	8 2,3,7,8-TCDF	4.84e2	0.75	NO	0.824	10.072	25.411	25.43	1.000	1.001	0.16343		0.0320	0.163
9	9 1,2,3,7,8-PeCDF	7.33e2	1.48	NO	0.963	10.072	29.572	29.58	1.000	1.001	0.33039		0.101	0.330
10	10 2,3,4,7,8-PeCDF	2.84e2	1.78	NO	1.07	10.072	30.633	30.65	1.000	1.001	0.12132		0.0851	0.121
11	11 1,2,3,4,7,8-HxCDF	6.87e2	1.13	NO	0.953	10.072	33.248	33.27	1.000	1.001	0.41395		0.0626	0.414
12	12 1,2,3,6,7,8-HxCDF	1.88e2	1.15	NO	1.01	10.072	33.376	33.40	1.000	1.001	0.10156		0.0660	0.102
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	10.072	34.050		1.000				0.0692	
14	14 1,2,3,7,8,9-HxCDF			NO	0.951	10.072	35.048		1.000				0.110	
15	15 1,2,3,4,6,7,8-HpCDF	5.55e2	0.96	NO	0.999	10.072	36.625	36.64	1.000	1.001	0.44694		0.0731	0.447
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	10.072	38.676		1.000				0.0744	
17	17 OCDF	9.26e2	0.84	NO	0.868	10.072	41.322	41.31	1.000	1.000	1.0782		0.145	1.08
18	18 13C-2,3,7,8-TCDD	4.08e5	0.81	NO	1.11	10.072	26.089	26.10	1.030	1.030	190.85	96.1	0.384	
19	19 13C-1,2,3,7,8-PeCDD	2.24e5	0.65	NO	0.859	10.072	30.810	30.82	1.216	1.217	135.33	68.2	0.439	
20	20 13C-1,2,3,4,7,8-HxCDD	2.28e5	1.34	NO	0.700	10.072	34.153	34.15	1.014	1.014	145.01	73.0	0.452	
21	21 13C-1,2,3,6,7,8-HxCDD	2.62e5	1.33	NO	0.833	10.072	34.291	34.27	1.018	1.017	139.76	70.4	0.380	
22	22 13C-1,2,3,7,8,9-HxCDD	2.45e5	1.23	NO	0.762	10.072	34.534	34.55	1.025	1.026	143.16	72.1	0.415	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.10e5	1.10	NO	0.650	10.072	38.020	38.05	1.129	1.130	143.67	72.4	0.651	
24	24 13C-OCDD	2.99e5	0.95	NO	0.539	10.072	40.988	41.03	1.217	1.218	246.88	62.2	0.803	
25	25 13C-2,3,7,8-TCDF	7.13e5	0.81	NO	0.981	10.072	25.410	25.40	1.003	1.003	179.98	90.6	0.488	
26	26 13C-1,2,3,7,8-PeCDF	4.58e5	1.66	NO	0.792	10.072	29.541	29.56	1.166	1.167	143.17	72.1	0.682	
27	27 13C-2,3,4,7,8-PeCDF	4.35e5	1.60	NO	0.778	10.072	30.600	30.63	1.208	1.209	138.35	69.7	0.694	
28	28 13C-1,2,3,4,7,8-HxCDF	3.46e5	0.50	NO	0.954	10.072	33.244	33.25	0.987	0.987	161.18	81.2	0.708	
29	29 13C-1,2,3,6,7,8-HxCDF	3.64e5	0.50	NO	1.01	10.072	33.375	33.38	0.991	0.991	161.09	81.1	0.671	
30	30 13C-2,3,4,6,7,8-HxCDF	3.36e5	0.51	NO	0.921	10.072	34.045	34.05	1.011	1.011	162.34	81.8	0.733	

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-5.qld

Last Altered: Tuesday, December 01, 2020 11:15:03 AM Pacific Standard Time

Printed: Tuesday, December 01, 2020 11:19:01 AM Pacific Standard Time

Name: 201125R2_5, Date: 26-Nov-2020, Time: 00:31:21, ID: 2002374-01 USMPDI-046SC-A-01-02-201029 11.36, Description: USMPDI-046SC-A-01-02-201029

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	2.87e5	0.49	NO	0.803	10.072	35.043	35.05	1.040	1.040	158.75	79.9	0.840	
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.47e5	0.42	NO	0.735	10.072	36.612	36.62	1.087	1.087	149.32	75.2	0.591	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.87e5	0.42	NO	0.568	10.072	38.650	38.68	1.147	1.148	146.21	73.6	0.766	
34	34 13C-OCDF	3.93e5	0.91	NO	0.629	10.072	41.271	41.31	1.225	1.226	277.43	69.9	0.580	
35	35 37Cl-2,3,7,8-TCDD	2.00e5			1.09	10.072	26.089	26.11	1.030	1.031	95.393	120	0.0956	
36	36 13C-1,2,3,4-TCDD	3.83e5	0.82	NO	1.00	10.072	25.370	25.33	1.000	1.000	198.57	100	0.426	
37	37 13C-1,2,3,4-TCDF	8.02e5	0.81	NO	1.00	10.072	23.870	23.82	1.000	1.000	198.57	100	0.478	
38	38 13C-1,2,3,4,6,9-HxCDF	4.47e5	0.51	NO	1.00	10.072	33.710	33.69	1.000	1.000	198.57	100	0.675	
39	39 Total Tetra-Dioxins				0.950	10.072	24.620		0.000				0.0507	
40	40 Total Penta-Dioxins				0.885	10.072	29.960		0.000				0.120	
41	41 Total Hexa-Dioxins				0.915	10.072	33.635		0.000		1.2591		0.173	1.26
42	42 Total Hepta-Dioxins				0.870	10.072	37.640		0.000		5.8943		0.206	5.89
43	43 Total Tetra-Furans				0.824	10.072	23.610		0.000		0.29827		0.0320	0.298
44	44 1st Func. Penta-Furans				0.963	10.072	26.930		0.000				0.0114	
45	45 Total Penta-Furans				0.963	10.072	29.275		0.000		0.62833		0.0977	0.628
46	46 Total Hexa-Furans				0.991	10.072	33.555		0.000		0.68156		0.0742	0.879
47	47 Total Hepta-Furans				0.999	10.072	37.835		0.000		1.0731		0.0777	1.07

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-5.qld

Last Altered: Tuesday, December 01, 2020 11:15:03 AM Pacific Standard Time

Printed: Tuesday, December 01, 2020 11:19:01 AM Pacific Standard Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R2_5, Date: 26-Nov-2020, Time: 00:31:21, ID: 2002374-01 USMPDI-046SC-A-01-02-201029 11.36, Description: USMPDI-046SC-A-01-02-201029

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.53	9.212e3	8.412e3	4.661e2	4.230e2	1.10	NO	8.891e2	0.78773	0.78773	0.173
2	Total Hexa-Dioxins	33.42	3.976e3	4.134e3	3.090e2	2.231e2	1.39	NO	5.320e2	0.47136	0.47136	0.173

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.04	2.460e4	1.979e4	1.564e3	1.524e3	1.03	NO	3.087e3	3.3582	3.3582	0.206
2	1,2,3,4,6,7,8-HpCDD	38.07	2.080e4	2.040e4	1.205e3	1.126e3	1.07	NO	2.331e3	2.5360	2.5360	0.206

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	24.44	2.348e3	3.582e3	1.706e2	2.287e2	0.75	NO	3.994e2	0.13484	0.13484	0.0320
2	2,3,7,8-TCDF	25.43	2.630e3	3.760e3	2.070e2	2.770e2	0.75	NO	4.840e2	0.16343	0.16343	0.0320

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-5.qld

Last Altered: Tuesday, December 01, 2020 11:15:03 AM Pacific Standard Time

Printed: Tuesday, December 01, 2020 11:19:01 AM Pacific Standard Time

Name: 201125R2_5, Date: 26-Nov-2020, Time: 00:31:21, ID: 2002374-01 USMPDI-046SC-A-01-02-201029 11.36, Description: USMPDI-046SC-A-01-02-201029**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.59	4.857e3	2.933e3	2.354e2	1.467e2	1.61	NO	3.820e2	0.17662	0.17662	0.0977
2	1,2,3,7,8-PeCDF	29.58	8.207e3	6.724e3	4.382e2	2.952e2	1.48	NO	7.333e2	0.33039	0.33039	0.101
3	2,3,4,7,8-PeCDF	30.65	3.799e3	2.868e3	1.817e2	1.020e2	1.78	NO	2.837e2	0.12132	0.12132	0.0851

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.16	3.218e3	3.291e3	1.584e2	1.177e2	1.35	NO	2.761e2	0.16605	0.16605	0.0742
2	Total Hexa-Furans	32.80	5.144e3	3.748e3	2.363e2	1.464e2	1.61	YES	0.000e0	0.00000	0.19715	0.0742
3	1,2,3,4,7,8-HxCDF	33.27	7.354e3	6.090e3	3.650e2	3.222e2	1.13	NO	6.872e2	0.41395	0.41395	0.0626
4	1,2,3,6,7,8-HxCDF	33.40	1.837e3	2.453e3	1.005e2	8.745e1	1.15	NO	1.879e2	0.10156	0.10156	0.0660

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	36.64	4.670e3	4.823e3	2.714e2	2.837e2	0.96	NO	5.551e2	0.44694	0.44694	0.0731
2	Total Hepta-Furans	37.37	7.404e3	4.944e3	3.475e2	3.353e2	1.04	NO	6.828e2	0.62617	0.62617	0.0777

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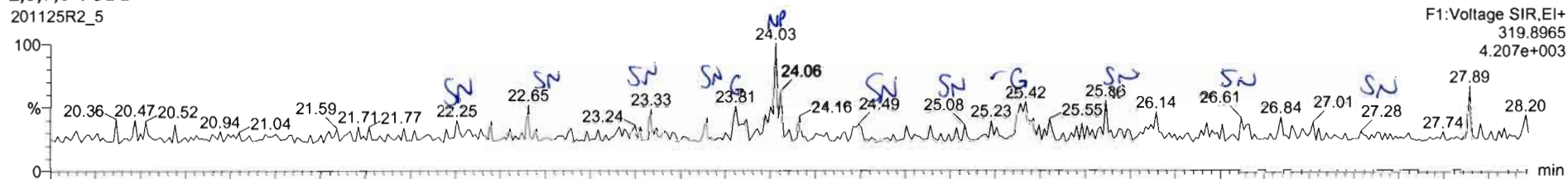
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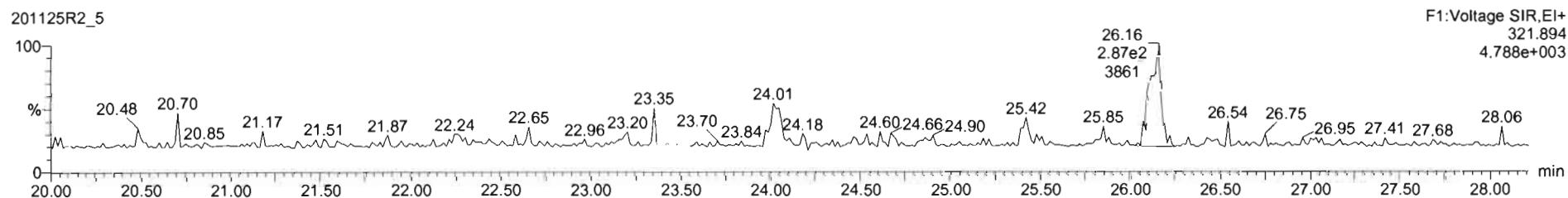
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2,3,7,8-TCDD

201125R2_5

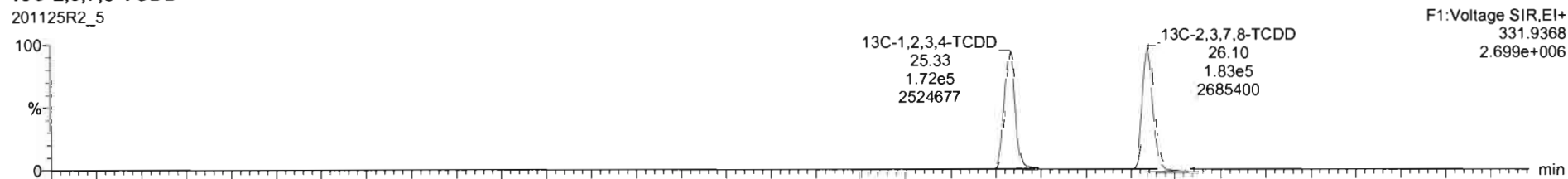


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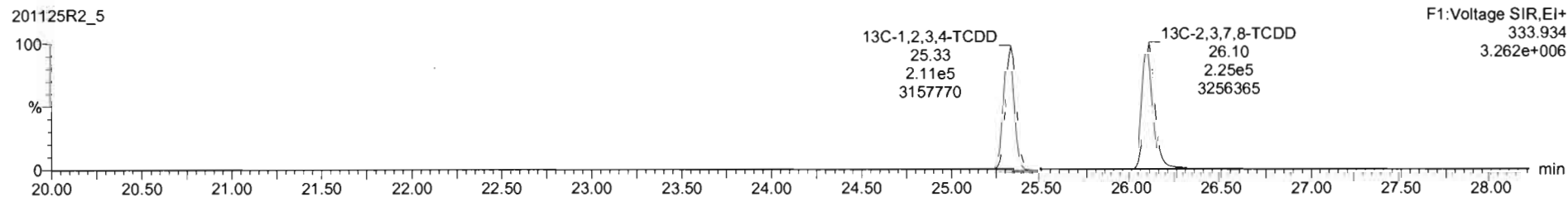


13C-2,3,7,8-TCDD

201125R2_5



201125R2_5



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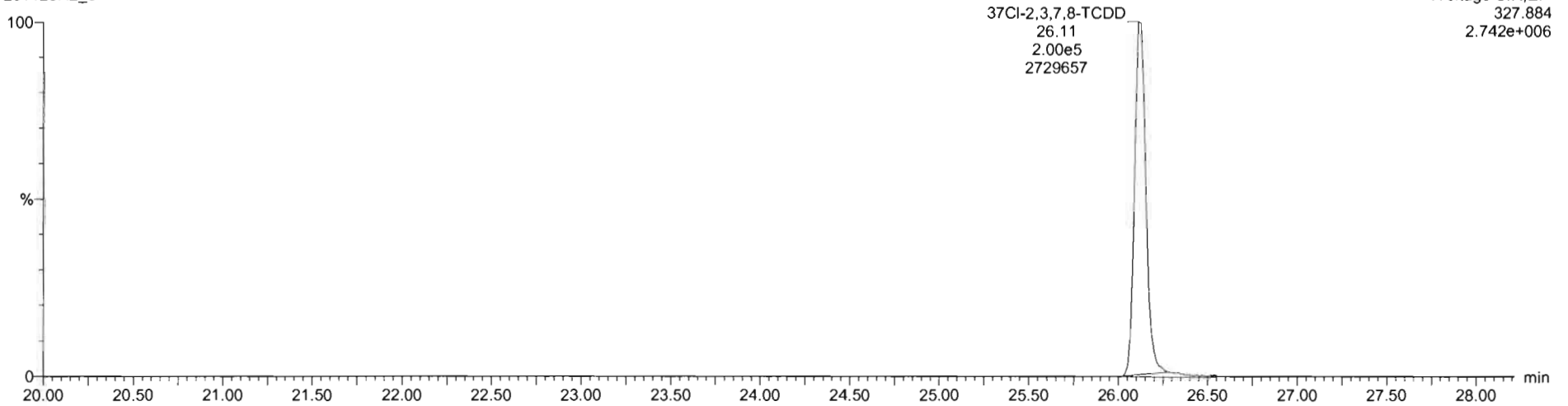
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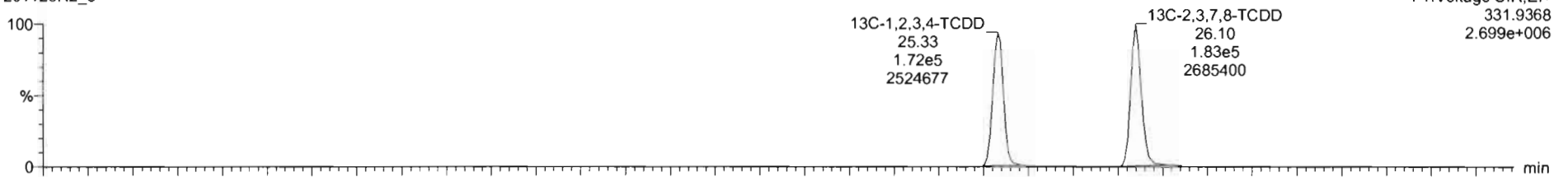
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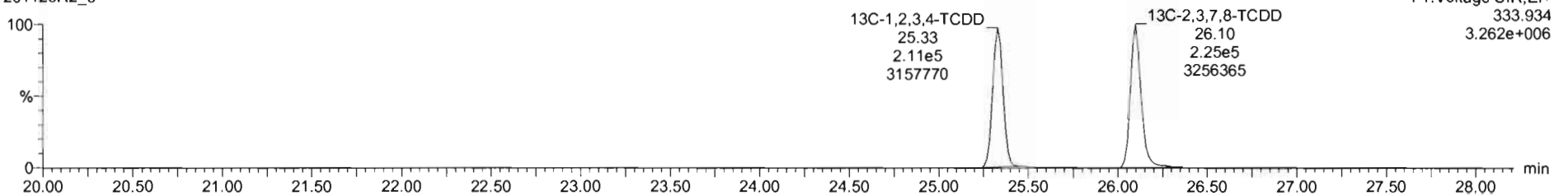


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201125R2_5



201125R2_5



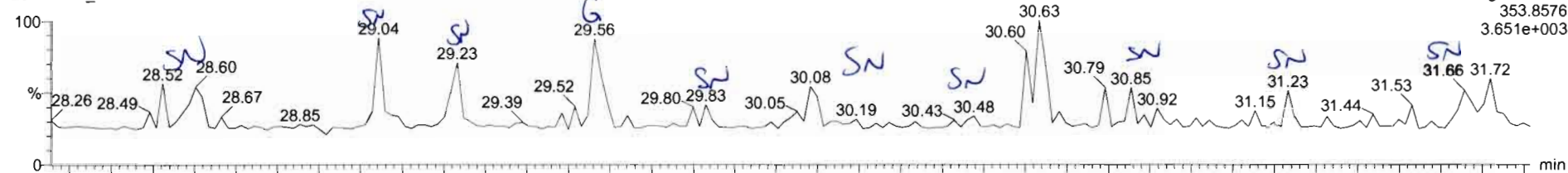
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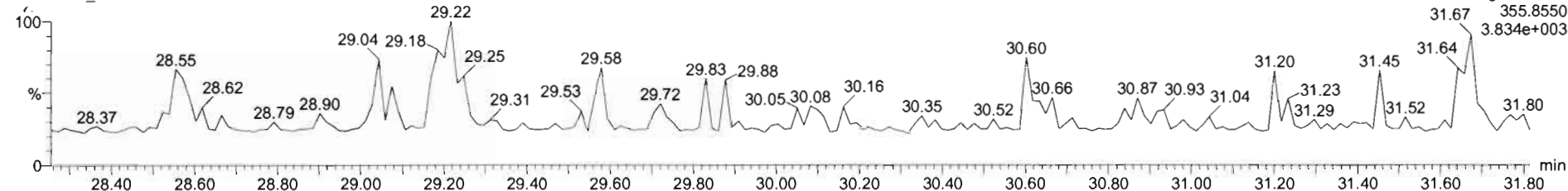
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1,2,3,7,8-PeCDD

201125R2_5

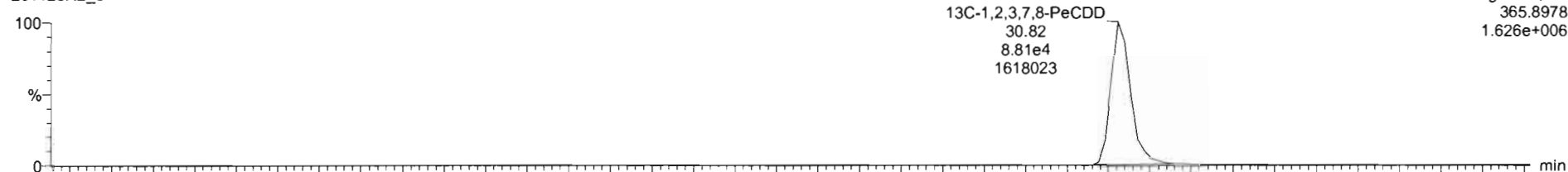


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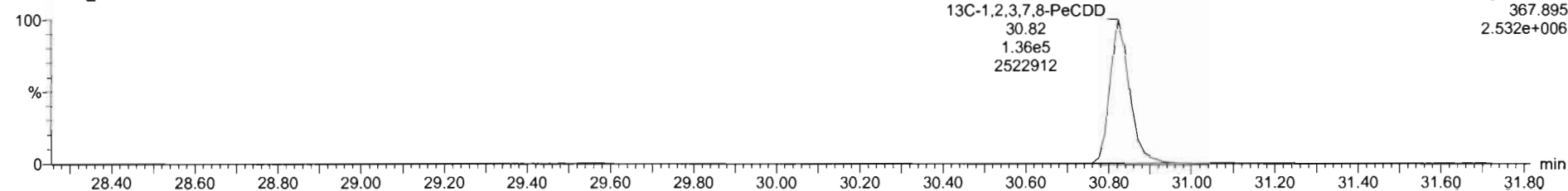


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201125R2_5



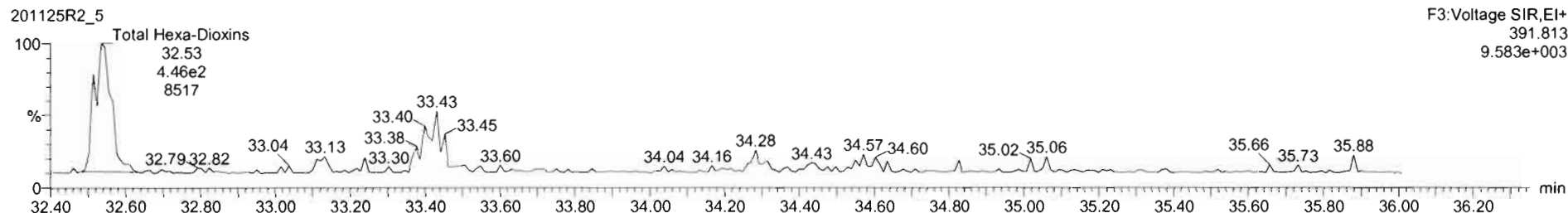
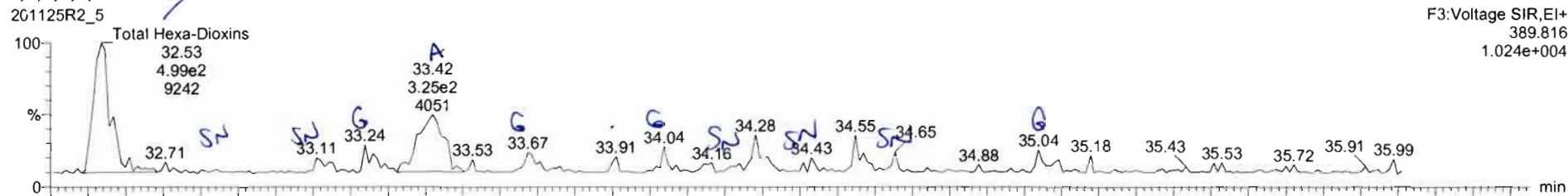
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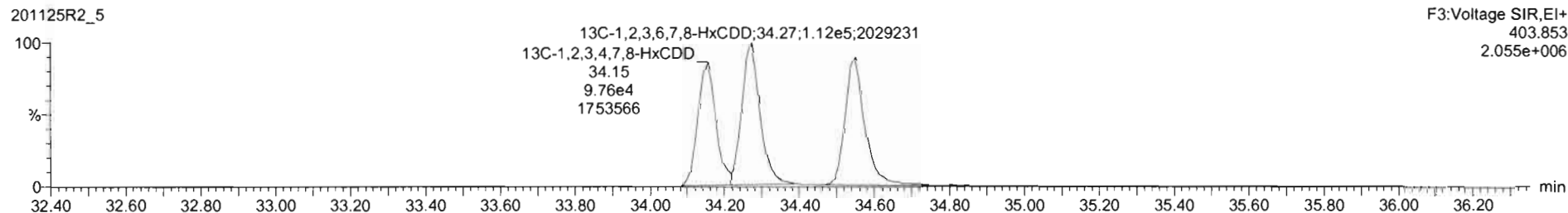
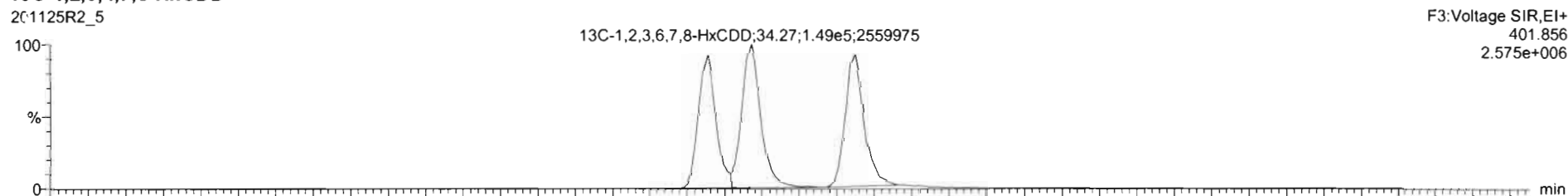
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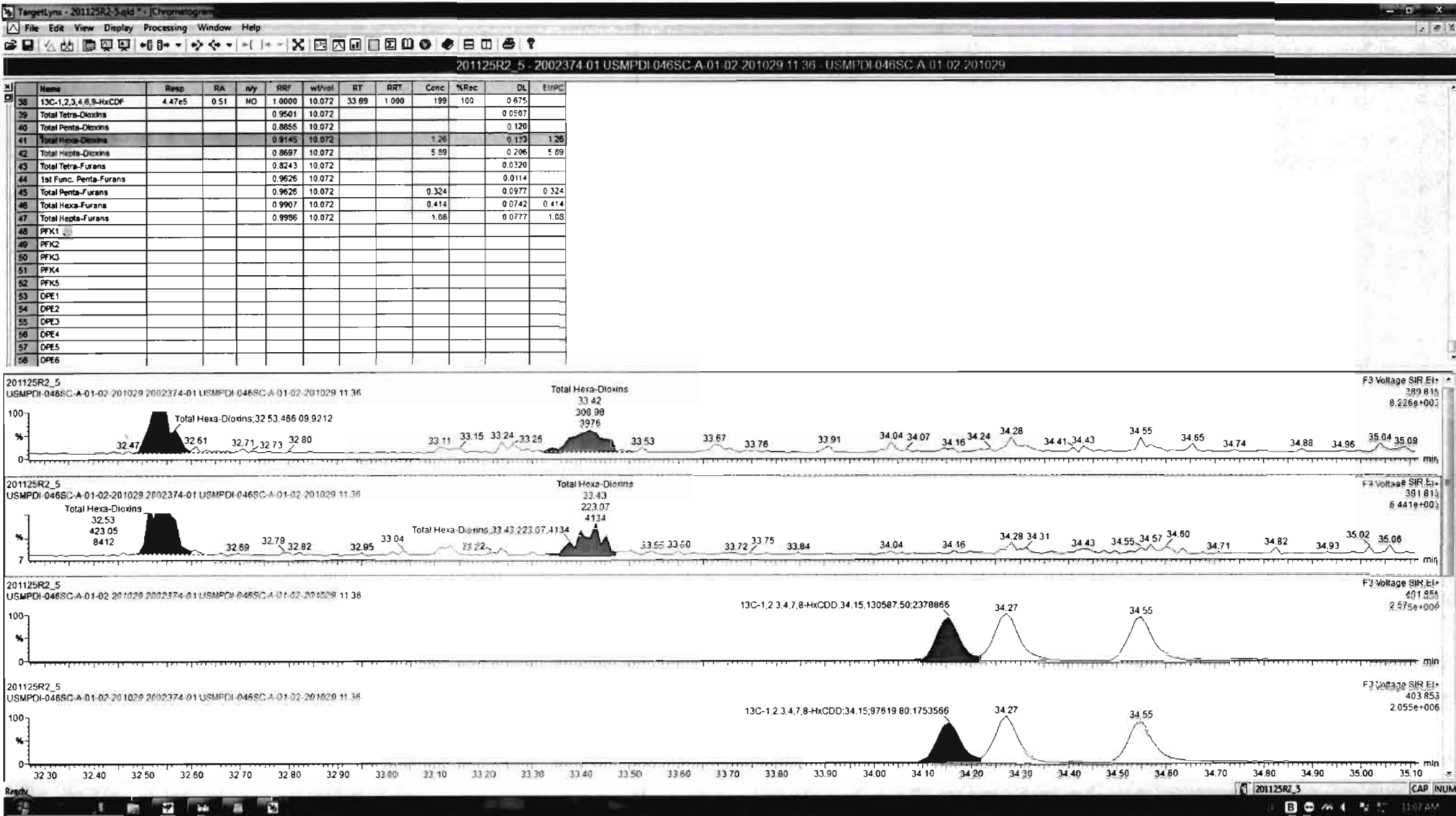
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1,2,3,4,7,8-HxCDD



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





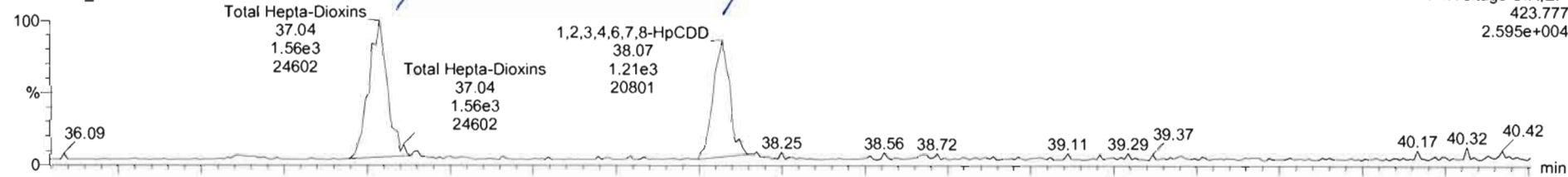
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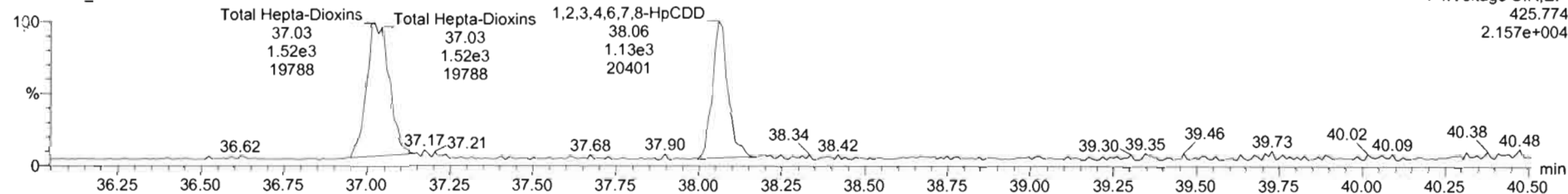
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1,2,3,4,6,7,8-HpCDD

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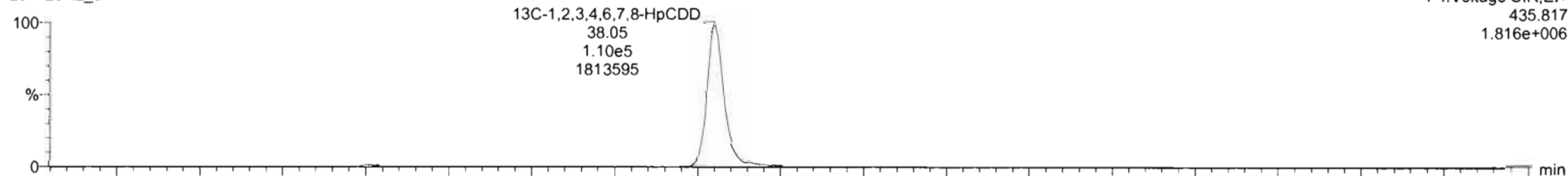


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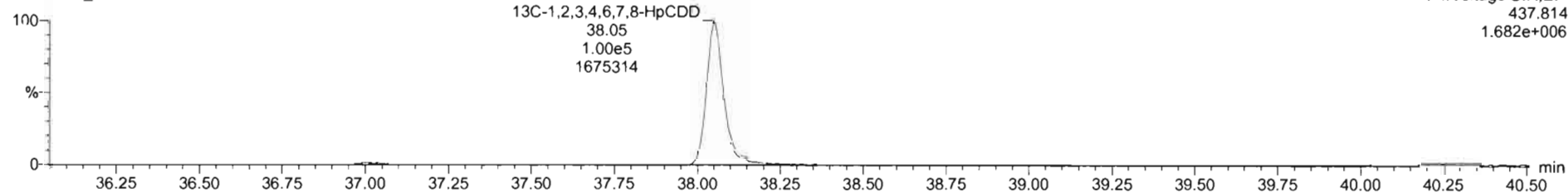


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201125R2_5



201125R2_5



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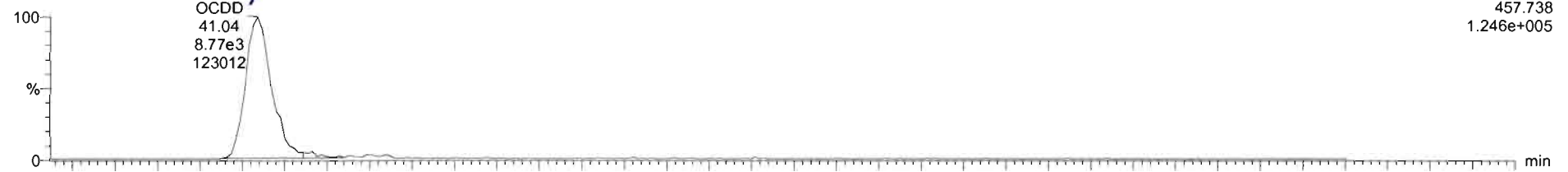
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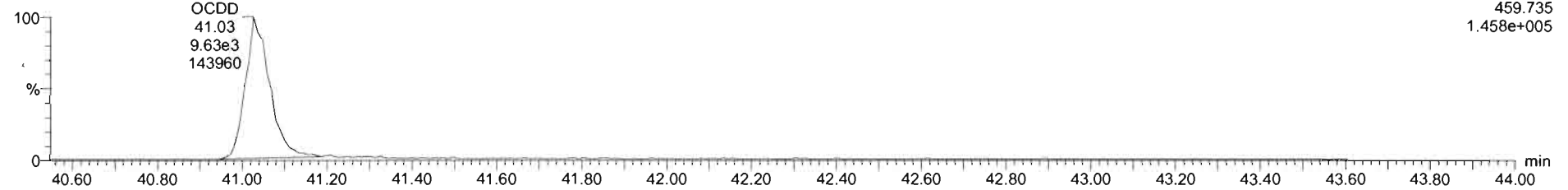
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OCDD

201125R2_5

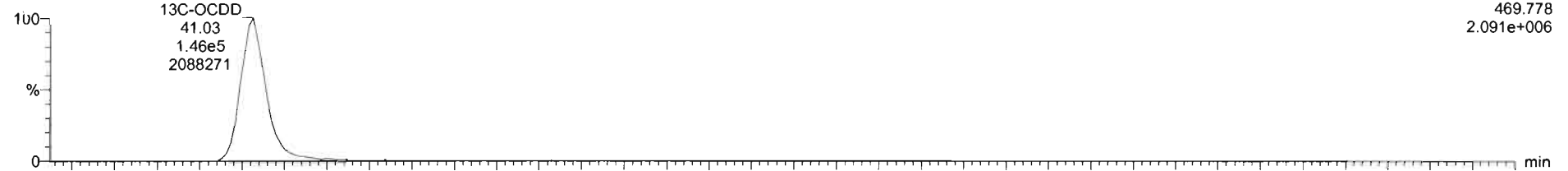


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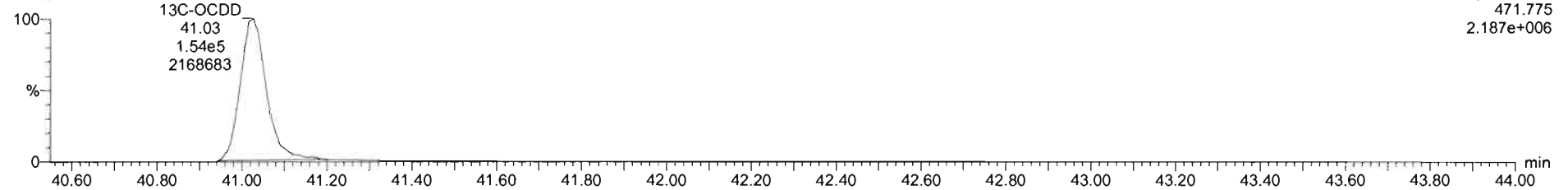


13C-OCDD

201125R2_5



201125R2_5

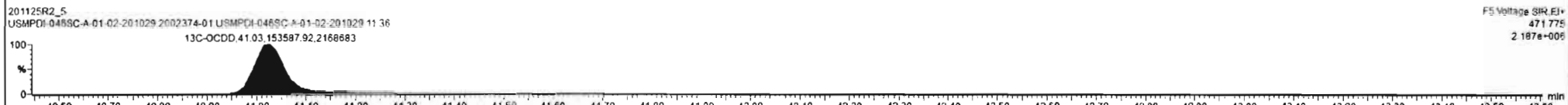
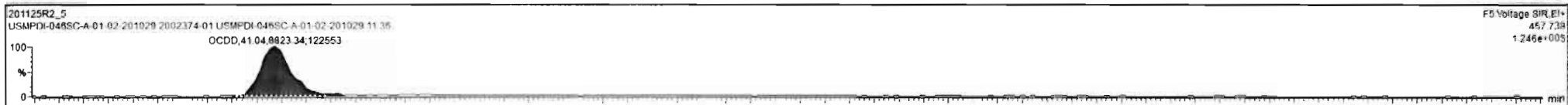


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201125R2_5 - 2002374-01 USMPDI-046SC-A-01-02-201029 11:36 - USMPDI-046SC-A-01-02-201029

#	Name	Resp	RA	IdY	RRF	wt%wt	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.9501	10.072					0.0814	
2	1,2,3,7,8-PeCDD			NO	0.8855	10.072					0.284	
3	1,2,3,4,7,8-HxCDD			NO	1.0176	10.072					0.161	
4	1,2,3,6,7,8-HxCDD			NO	0.9145	10.072					0.166	
5	1,2,3,7,8,9-HxCDD			NO	0.9345	10.072					0.171	
6	1,2,3,4,6,7,8-HpCDD	2.33e3	1.07	NO	0.8697	10.072	38.07	1.001	2.54		0.206	2.54
7	OCDD	1.85e4	0.92	NO	0.8717	10.072	41.04	1.000	28.1		0.481	28.1
8	2,3,7,8-TCDF			NO	0.8243	10.072					0.0581	
9	1,2,3,7,8-PeCDF	7.18e2	1.40	NO	0.9626	10.072	29.58	1.001	0.324		0.101	0.324
10	2,3,4,7,8-PeCDF			NO	1.0684	10.072					0.0351	
11	1,2,3,4,7,8-HxCDF	6.67e2	1.13	NO	0.9535	10.072	33.27	1.001	0.414		0.0626	0.414
12	1,2,3,6,7,8-HxCDF			NO	1.0080	10.072					0.0650	
13	2,3,4,6,7,8-HxCDF			NO	0.9907	10.072					0.0692	
14	1,2,3,7,8,9-HxCDF			NO	0.9506	10.072					0.110	
15	1,2,3,4,6,7,8-HpCDF	5.69e2	1.00	NO	0.9986	10.072	36.64	1.001	0.458		0.0731	0.458
16	1,2,3,4,7,8,9-HpCDF			NO	1.1238	10.072					0.0744	
17	OCDF	8.51e2	1.09	YES	0.8682	10.072	41.31	1.000	0.931		0.145	0.930
18	13C-2,3,7,8-TCDD	4.08e5	0.81	NO	1.1069	10.072	26.10	1.030	191	96.1	0.384	
19	13C-1,2,3,7,8-PeCDD	2.24e5	0.85	NO	0.8585	10.072	30.82	1.217	135	69.2	0.439	
20	13C-1,2,3,4,7,8-HxCDD	2.28e5	1.34	NO	0.6997	10.072	34.15	1.014	145	73.0	0.452	
21	13C-1,2,3,6,7,8-HxCDD	2.62e5	1.33	NO	0.8327	10.072	34.27	1.017	140	70.4	0.390	

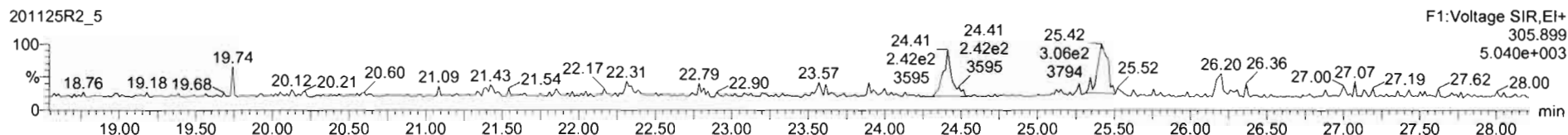
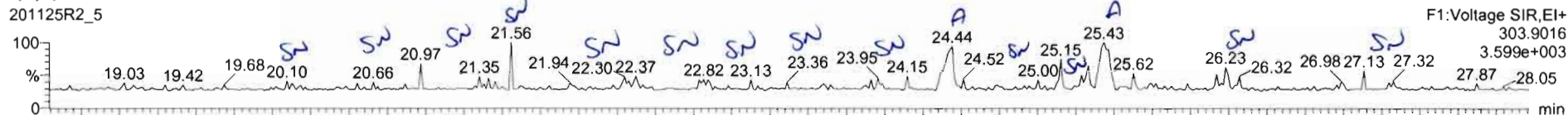


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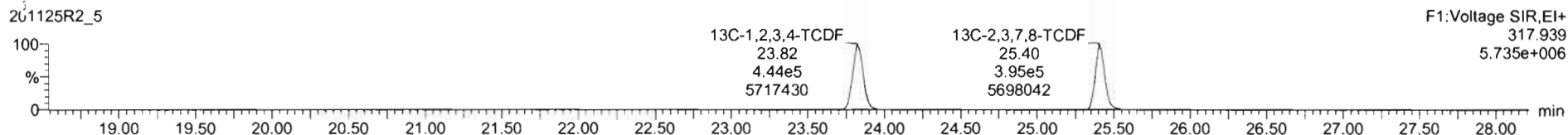
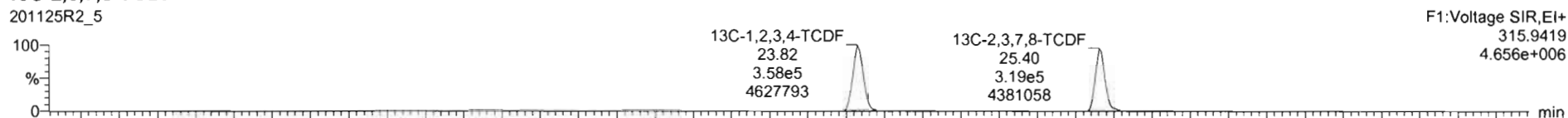
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Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_5, Date: 26-Nov-2020, Time: 00:31:21, ID: 2002374-01 USMPDI-046SC-A-01-02-201029 11.36, Description: USMPDI-046SC-A-01-02-201029

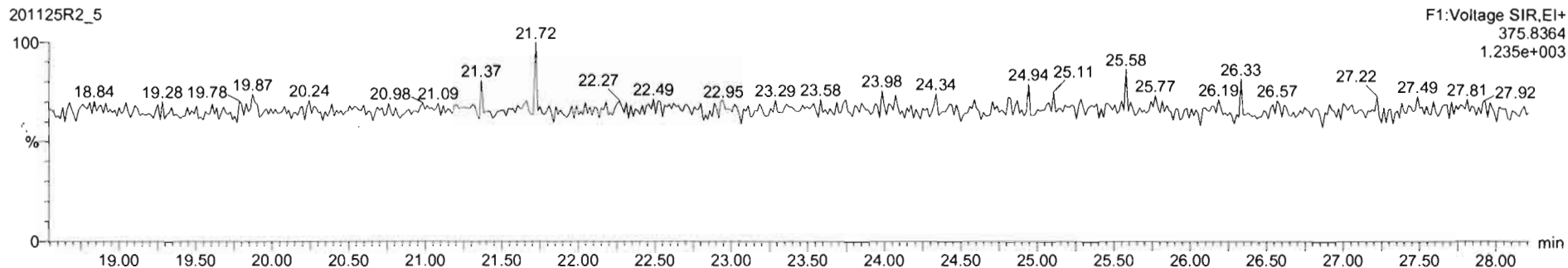
2,3,7,8-TCDF

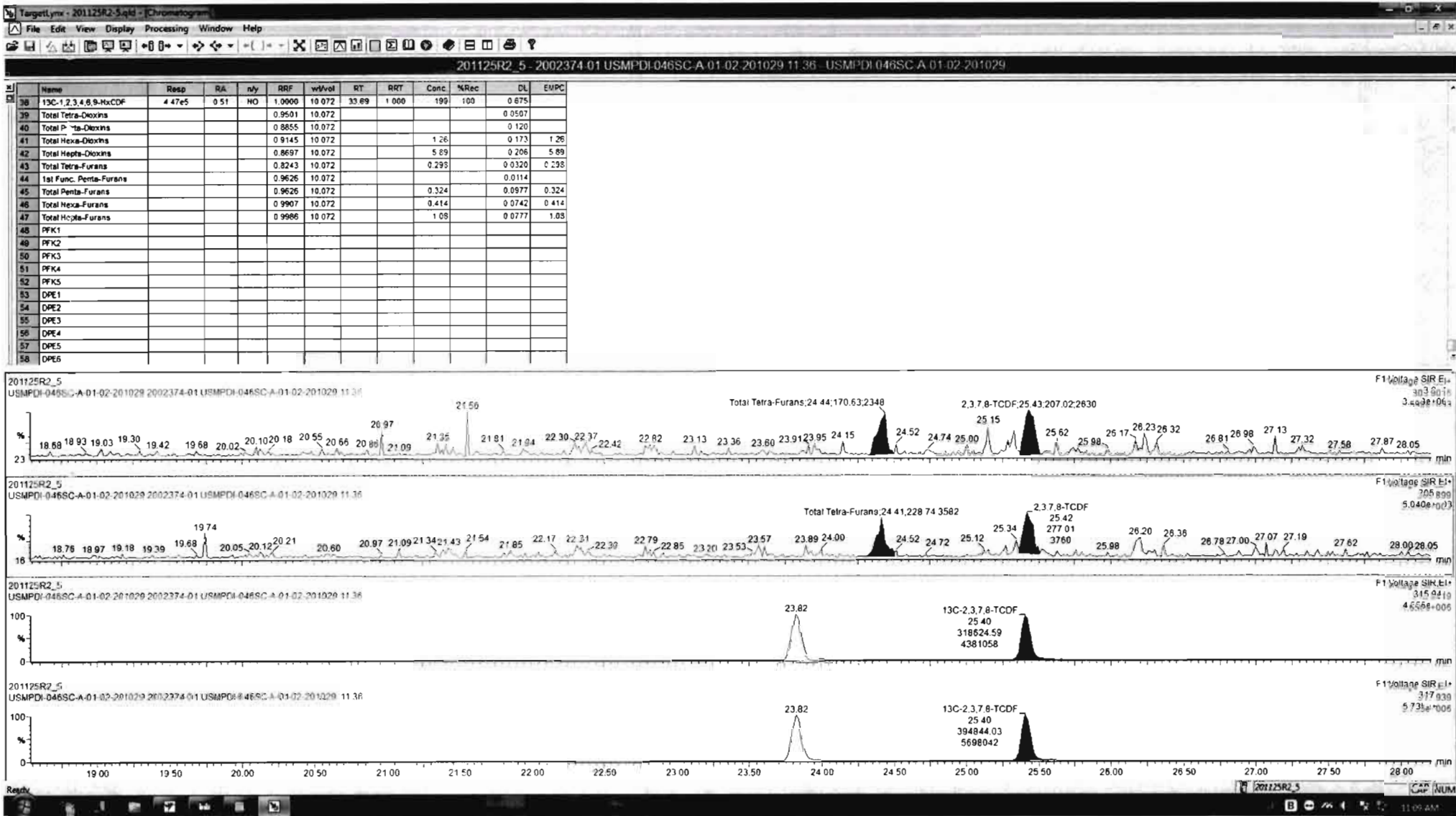


13C-2,3,7,8-TCDF



DPE1





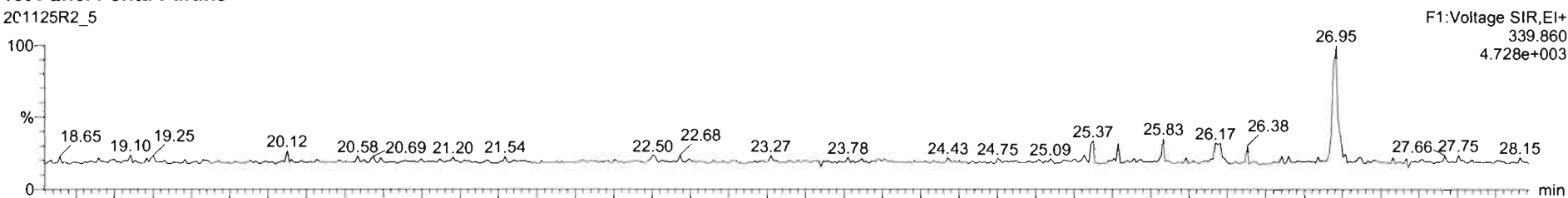
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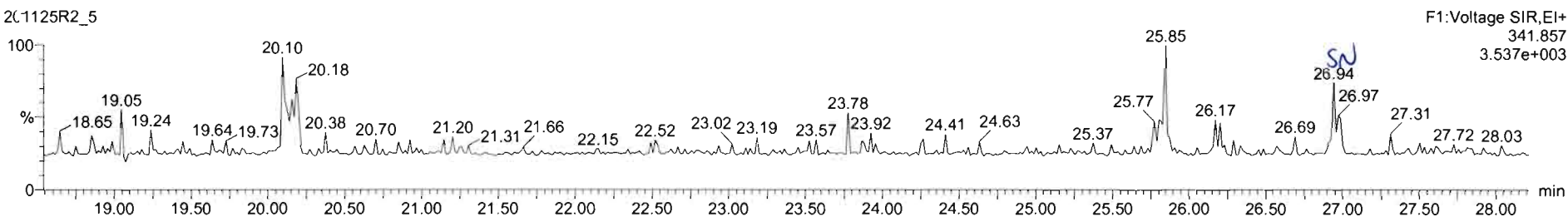
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1st Func. Penta-Furans

201125R2_5

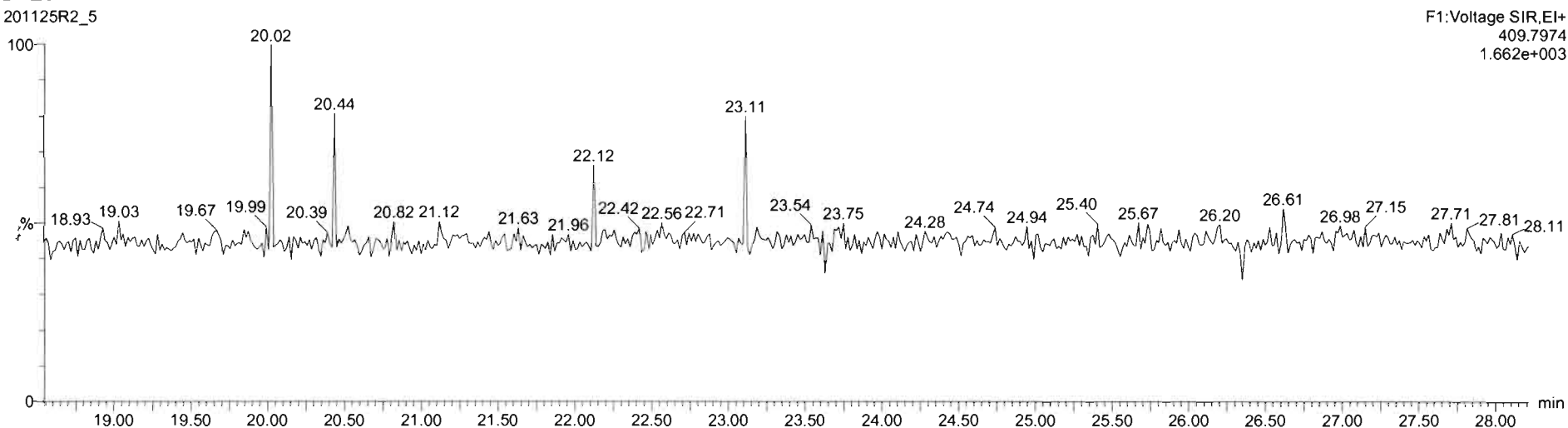


201125R2_5



DPE6

201125R2_5

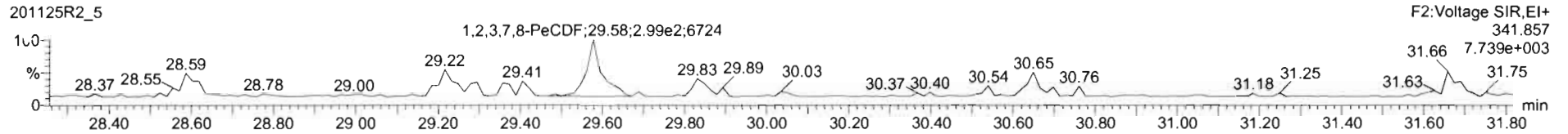
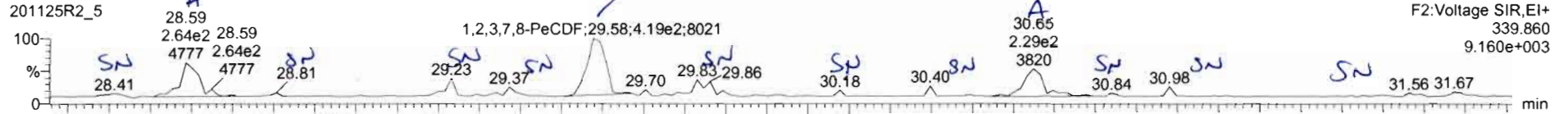


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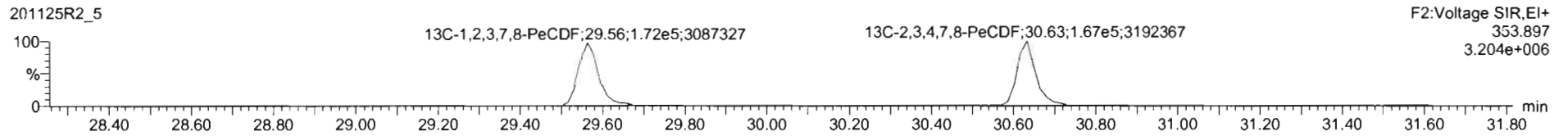
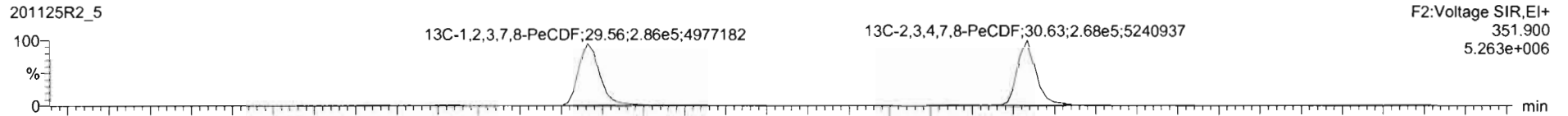
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Name: 201125R2_5, Date: 26-Nov-2020, Time: 00:31:21, ID: 2002374-01 USMPDI-046SC-A-01-02-201029 11.36, Description: USMPDI-046SC-A-01-02-201029

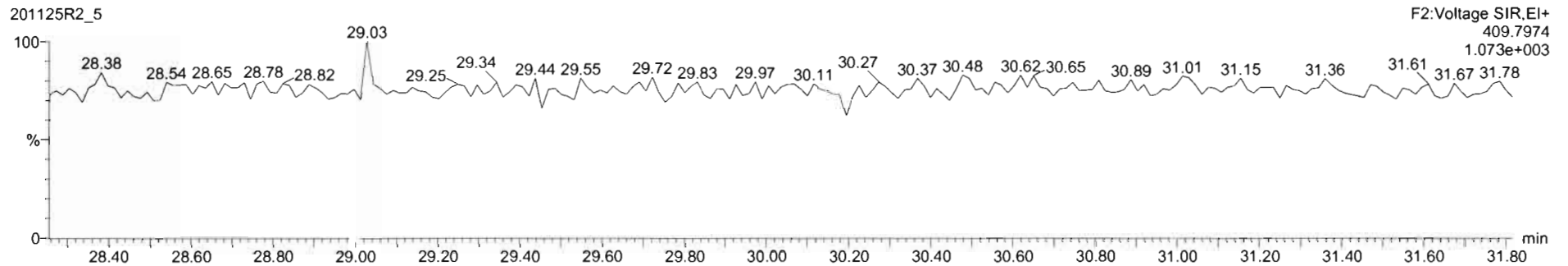
1,2,3,7,8-PeCDF



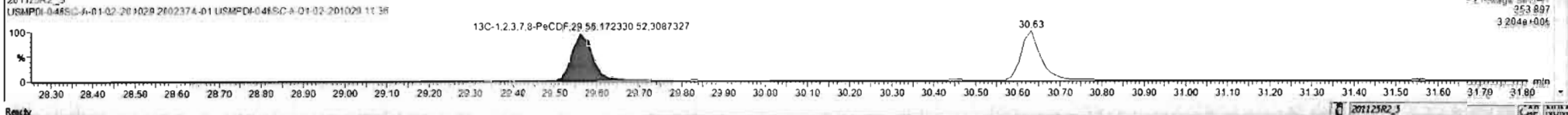
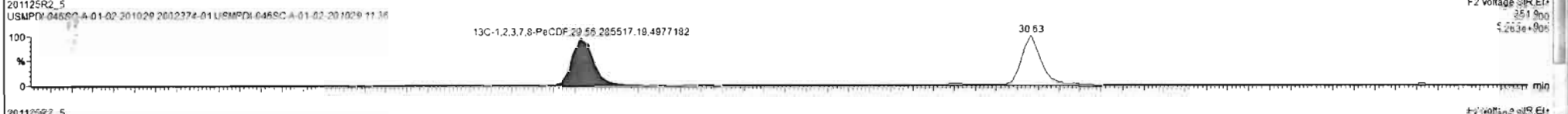
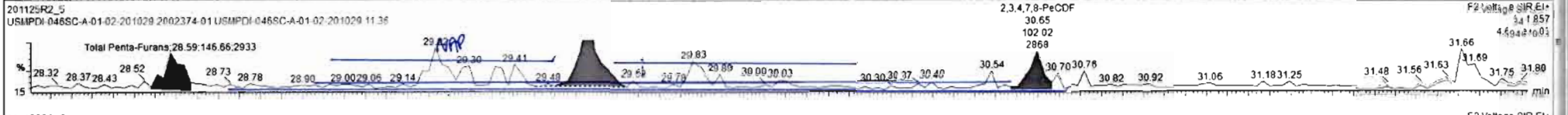
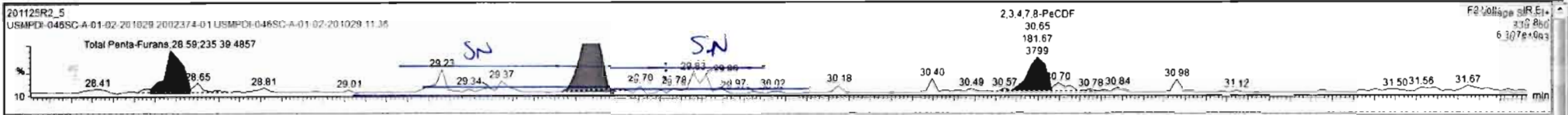
13C-1,2,3,7,8-PeCDF



DPE2



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
38 13C-1,2,3,4,6,8-HxCDF	4.47e5	0.51	NO	1.0000	10.072	33.69	1.000	199	100	0.675	
39 Total Tetra-Dioxins				0.9501	10.072					0.0507	
40 Total Penta-Dioxins				0.8855	10.072					0.120	
41 Total Hexa-Dioxins				0.9145	10.072			1.26		0.173	1.26
42 Total Hepta-Dioxins				0.8697	10.072			5.89		0.206	5.89
43 Total Tetra-Furans				0.8243	10.072			0.298		0.0320	0.298
44 1st Func. Penta-Furans				0.9626	10.072					0.0114	
45 Total Penta-Furans				0.9626	10.072			0.628		0.0977	0.628
46 Total Hexa-Furans				0.9907	10.072			0.414		0.0742	0.414
47 Total Hepta-Furans				0.9986	10.072			1.08		0.0777	1.08
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											

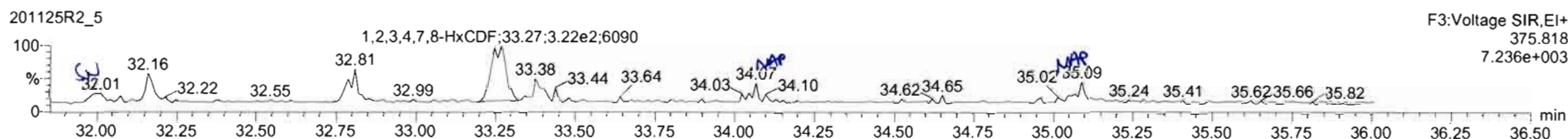
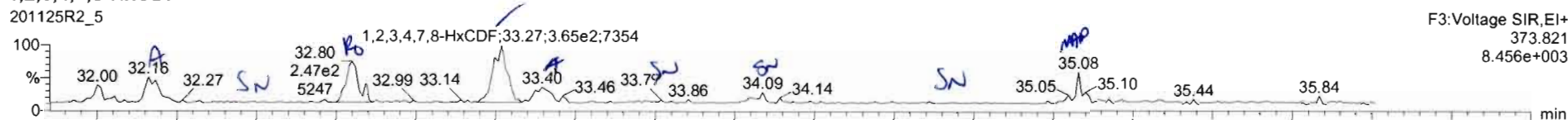


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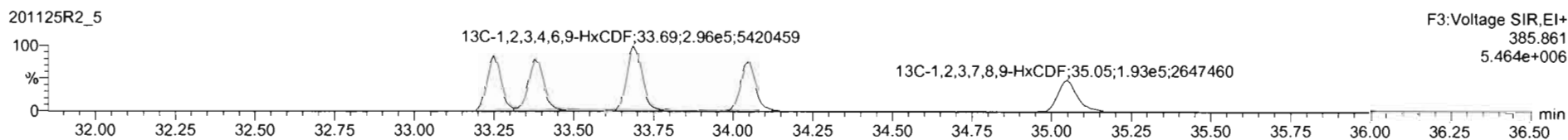
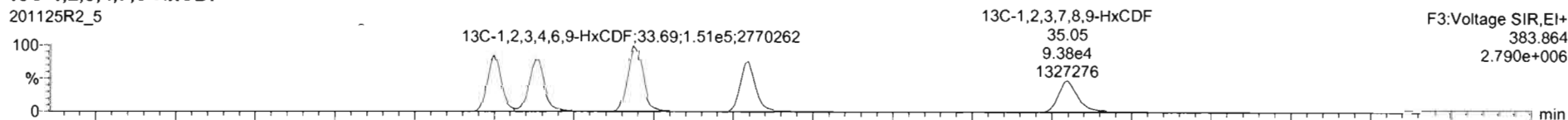
Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_5, Date: 26-Nov-2020, Time: 00:31:21, ID: 2002374-01 USMPDI-046SC-A-01-02-201029 11.36, Description: USMPDI-046SC-A-01-02-201029

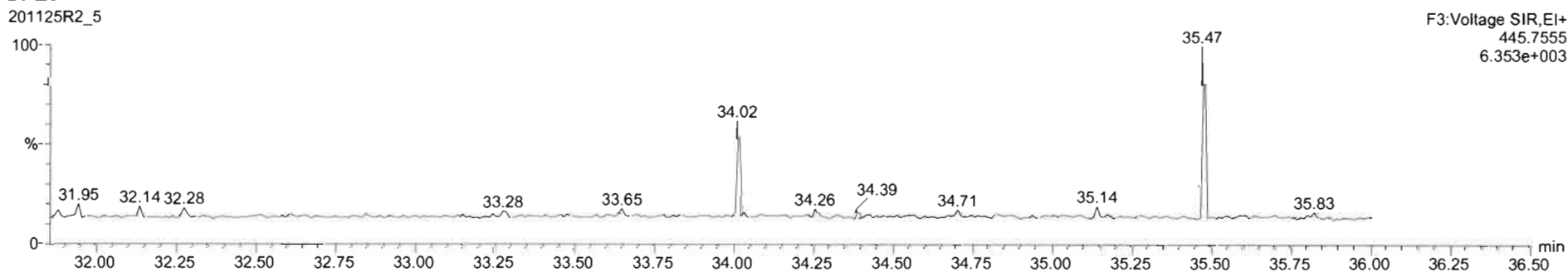
1,2,3,4,7,8-HxCDF



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



DPE3

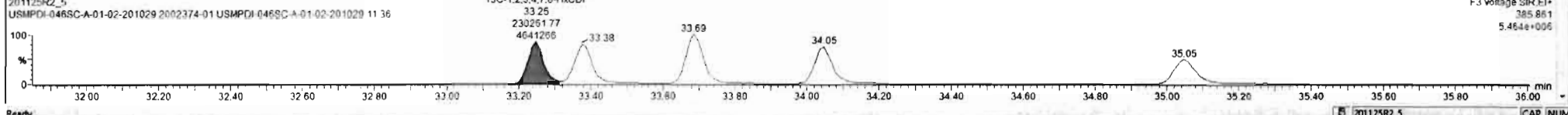
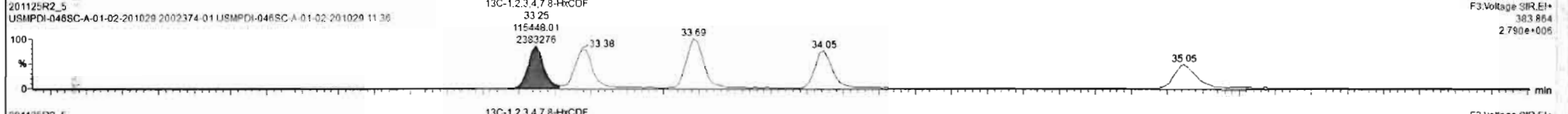
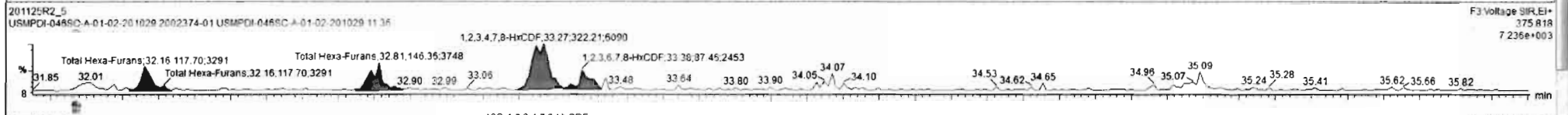
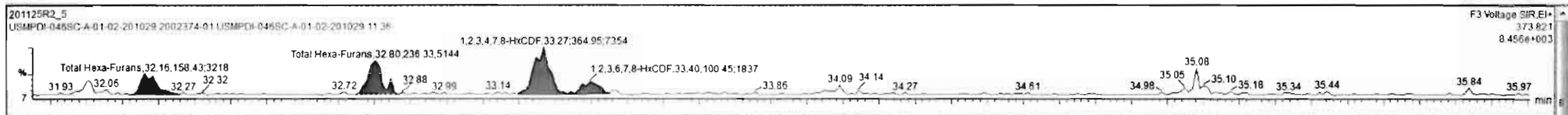


TargetLynx - 201125R2_5.qld - Chromatogram

File Edit View Display Processing Window Help

201125R2_5 - 2002374-01 USMPDI-046SC-A-01-02-201029 11:36 - USMPDI-046SC-A-01-02-201029

Name	Resp	RA	n/y	RfF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HxCDF	4.47e5	0.51	NO	1.0000	10.072	33.69	1.000	100	0.675	
39	Total Tetra-Dioxins				0.9501	10.072				0.0507	
40	Total Penta-Dioxins				0.8855	10.072				0.120	
41	Total Hexa-Dioxins				0.9145	10.072		1.26		0.173	1.26
42	Total Hepta-Dioxins				0.8697	10.072		5.89		0.206	5.89
43	Total Tetra-Furans				0.8243	10.072		0.295		0.0320	0.298
44	1st Func. Penta-Furans				0.9626	10.072				0.0114	
45	Total Penta-Furans				0.9626	10.072		0.628		0.0977	0.628
46	Total Hexa-Furans				0.9907	10.072		0.682		0.0742	0.879
47	Total Hepta-Furans				0.9986	10.072		1.08		0.0777	1.08
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										

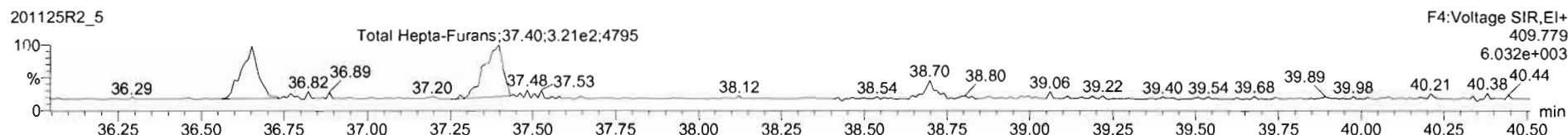
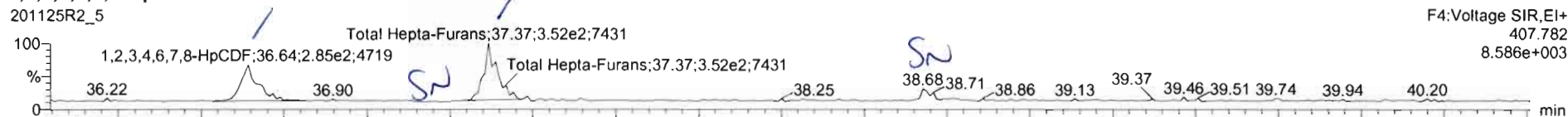


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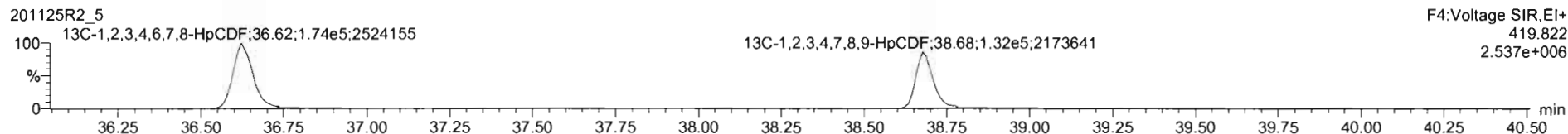
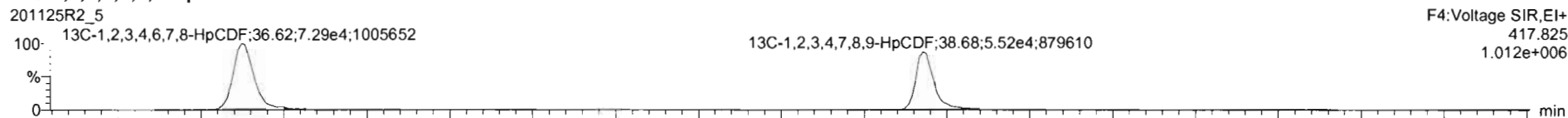
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Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_5, Date: 26-Nov-2020, Time: 00:31:21, ID: 2002374-01 USMPDI-046SC-A-01-02-201029 11.36, Description: USMPDI-046SC-A-01-02-201029

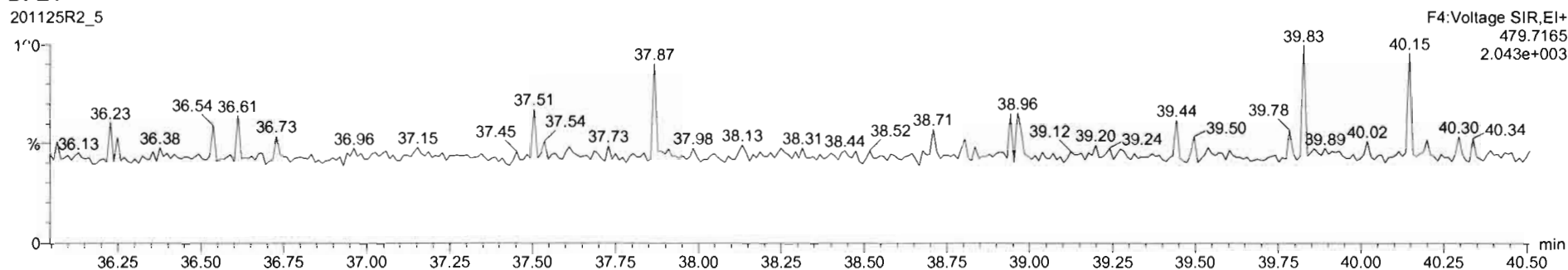
1,2,3,4,6,7,8-HpCDF

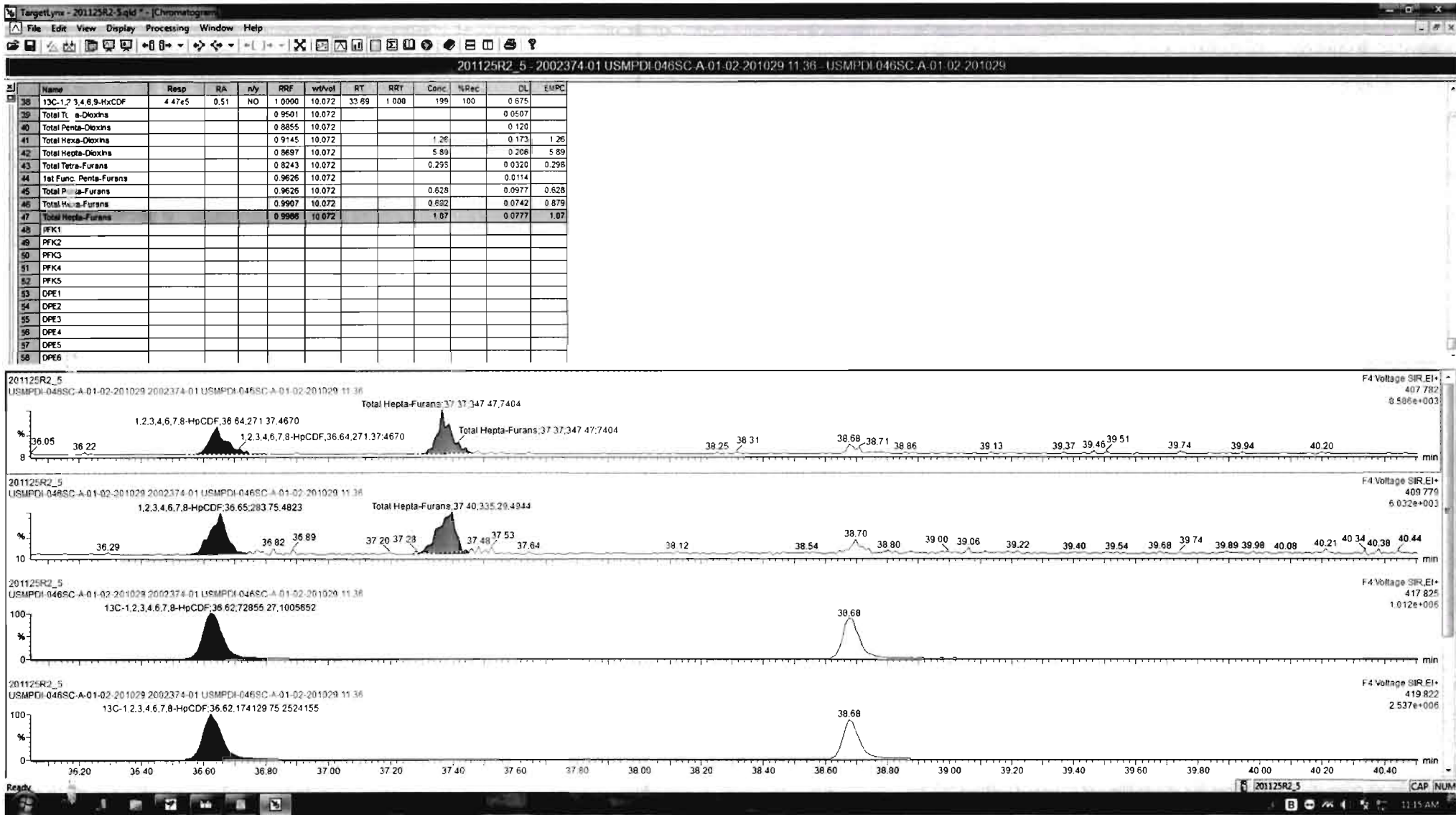


13C-1,2,3,4,6,7,8-HpCDF



DPE4



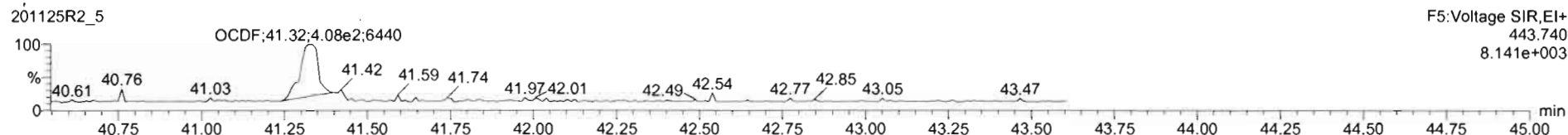


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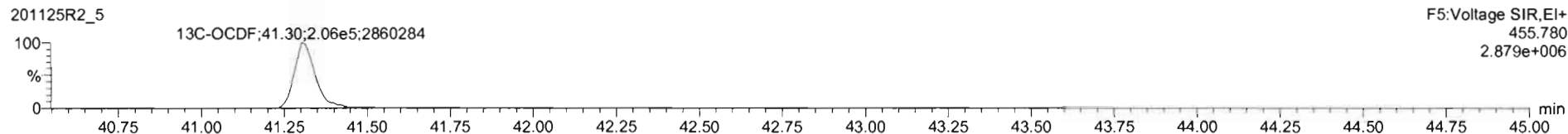
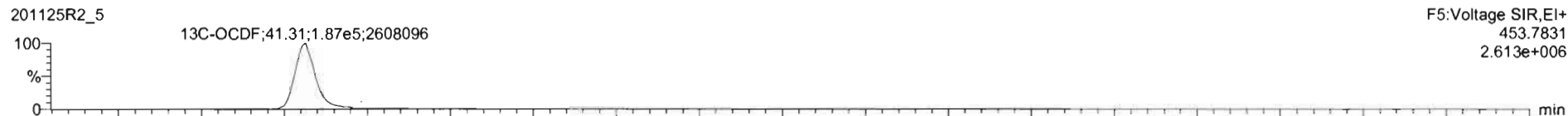
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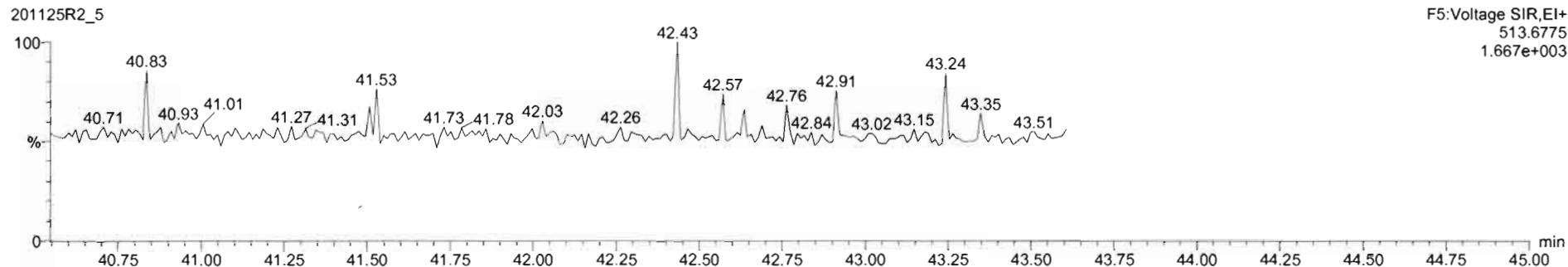
OCDF

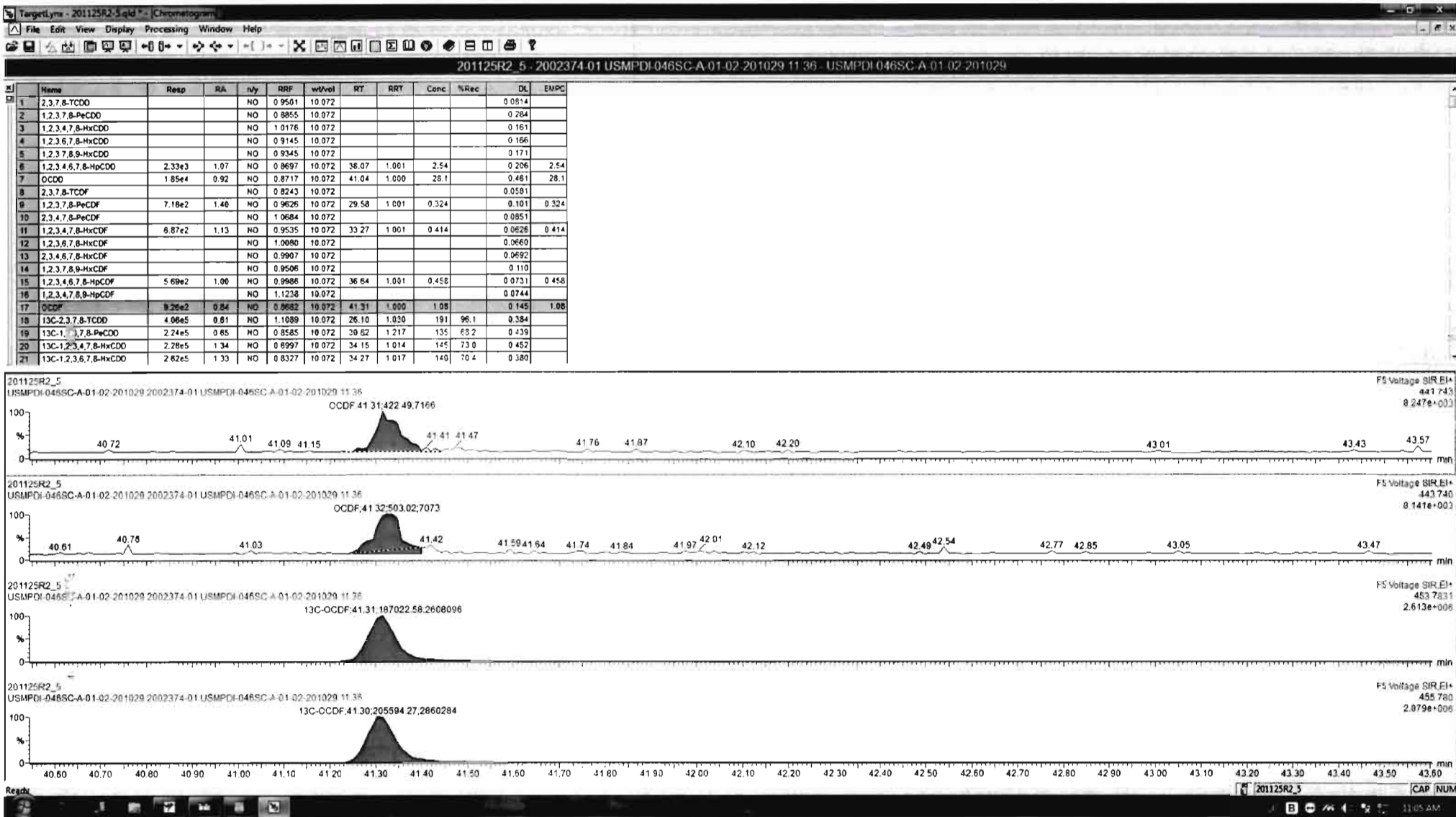


13C-OCDF



DPE5



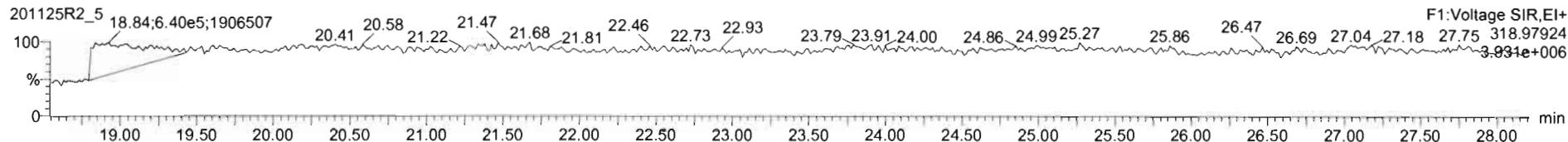


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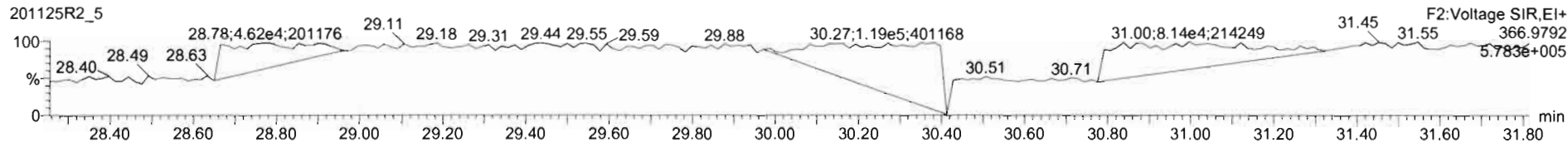
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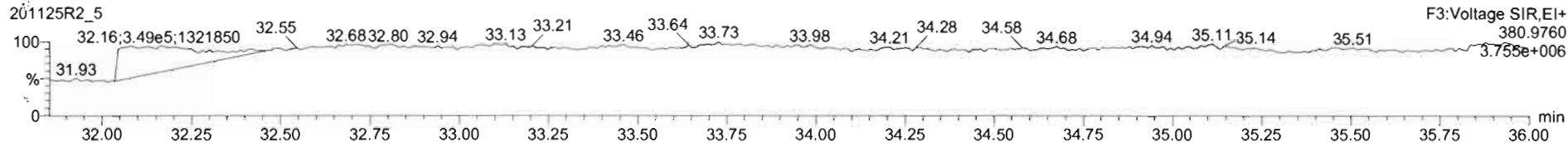
PFK1



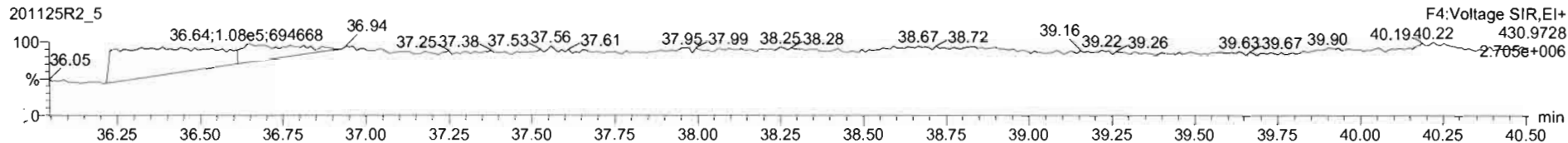
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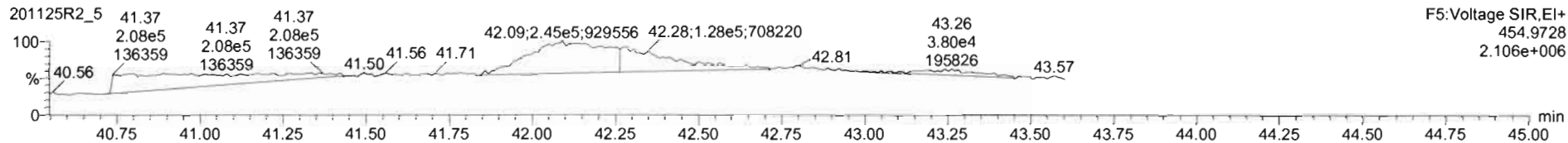
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201125R2\201125R2-6.qld

Last Altered: Tuesday, December 01, 2020 11:25:03 AM Pacific Standard Time
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GPB 12/01/2020

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C1 12/04/2020

Name: 201125R2_6, Date: 26-Nov-2020, Time: 01:16:13, ID: 2002374-02 USMPDI-046SC-A-02-03-201029 15.53, Description: USMPDI-046SC-A-02-03-201029

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.950	10.074	26.097		1.001				0.0764	
2	2 1,2,3,7,8-PeCDD			NO	0.885	10.074	30.800		1.000				0.140	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.074	34.132		1.000				0.140	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.074	34.249		1.000				0.154	
5	5 1,2,3,7,8,9-HxCDD			NO	0.934	10.074	34.526		1.000				0.164	
6	6 1,2,3,4,6,7,8-HpCDD	2.64e3	1.16	NO	0.870	10.074	38.016	38.03	1.000	1.000	2.2713		0.227	2.27
7	7 OCDD	2.21e4	0.86	NO	0.872	10.074	40.984	40.98	1.000	1.000	26.963		0.374	27.0
8	8 2,3,7,8-TCDF			NO	0.824	10.074	25.381		1.000				0.0392	
9	9 1,2,3,7,8-PeCDF			NO	0.963	10.074	29.540		1.000				0.0523	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.074	30.602		1.000				0.0498	
11	11 1,2,3,4,7,8-HxCDF			NO	0.953	10.074	33.217		1.000				0.0530	
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.074	33.345		1.000				0.0522	
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	10.074	34.018		1.000				0.0575	
14	14 1,2,3,7,8,9-HxCDF			NO	0.951	10.074	35.006		1.000				0.0863	
15	15 1,2,3,4,6,7,8-HpCDF	2.08e2	0.97	NO	0.999	10.074	36.593	36.59	1.000	1.000	0.12626		0.0422	0.126
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	10.074	38.645		1.000				0.0953	
17	17 OCDF			NO	0.868	10.074	41.269		1.000				0.245	
18	18 13C-2,3,7,8-TCDD	4.77e5	0.83	NO	1.11	10.074	26.058	26.07	1.030	1.030	186.11	93.7	0.303	
19	19 13C-1,2,3,7,8-PeCDD	3.01e5	0.63	NO	0.859	10.074	30.774	30.79	1.216	1.217	151.34	76.2	0.453	
20	20 13C-1,2,3,4,7,8-HxCDD	2.96e5	1.34	NO	0.700	10.074	34.121	34.12	1.014	1.014	150.92	76.0	0.774	
21	21 13C-1,2,3,6,7,8-HxCDD	3.43e5	1.30	NO	0.833	10.074	34.259	34.24	1.018	1.017	147.11	74.1	0.650	
22	22 13C-1,2,3,7,8,9-HxCDD	3.17e5	1.32	NO	0.762	10.074	34.501	34.52	1.025	1.026	148.55	74.8	0.711	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.65e5	1.05	NO	0.650	10.074	37.984	38.02	1.129	1.130	145.80	73.4	0.869	
24	24 13C-OCDD	3.73e5	0.92	NO	0.539	10.074	40.949	40.98	1.217	1.218	246.85	62.2	0.651	
25	25 13C-2,3,7,8-TCDF	8.37e5	0.79	NO	0.981	10.074	25.380	25.37	1.003	1.003	179.16	90.2	0.325	
26	26 13C-1,2,3,7,8-PeCDF	6.06e5	1.64	NO	0.792	10.074	29.506	29.53	1.166	1.167	160.72	81.0	0.578	
27	27 13C-2,3,4,7,8-PeCDF	5.90e5	1.63	NO	0.778	10.074	30.564	30.60	1.208	1.210	159.54	80.4	0.588	
28	28 13C-1,2,3,4,7,8-HxCDF	4.40e5	0.51	NO	0.954	10.074	33.212	33.22	0.987	0.987	164.69	82.9	0.668	
29	29 13C-1,2,3,6,7,8-HxCDF	4.47e5	0.51	NO	1.01	10.074	33.343	33.35	0.991	0.991	158.57	79.9	0.633	
30	30 13C-2,3,4,6,7,8-HxCDF	4.25e5	0.51	NO	0.921	10.074	34.013	34.01	1.011	1.011	164.62	82.9	0.692	
31	31 13C-1,2,3,7,8,9-HxCDF	3.73e5	0.50	NO	0.803	10.074	35.009	35.01	1.040	1.040	165.66	83.4	0.793	

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-6.qld

Last Altered: Tuesday, December 01, 2020 11:25:03 AM Pacific Standard Time

Printed: Tuesday, December 01, 2020 11:30:47 AM Pacific Standard Time

Name: 201125R2_6, Date: 26-Nov-2020, Time: 01:16:13, ID: 2002374-02 USMPDI-046SC-A-02-03-201029 15.53, Description: USMPDI-046SC-A-02-03-201029

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.27e5	0.42	NO	0.735	10.074	36.577	36.59	1.087	1.087	158.67	79.9	0.704	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.30e5	0.43	NO	0.568	10.074	38.613	38.65	1.147	1.148	144.37	72.7	0.913	
34	34 13C-OCDF	4.81e5	0.86	NO	0.629	10.074	41.232	41.26	1.225	1.226	272.62	68.7	0.505	
35	35 37Cl-2,3,7,8-TCDD	2.33e5			1.09	10.074	26.058	26.08	1.030	1.031	92.579	117	0.0921	
36	36 13C-1,2,3,4-TCDD	4.59e5	0.84	NO	1.00	10.074	25.370	25.30	1.000	1.000	198.54	100	0.336	
37	37 13C-1,2,3,4-TCDF	9.45e5	0.81	NO	1.00	10.074	23.870	23.81	1.000	1.000	198.54	100	0.319	
38	38 13C-1,2,3,4,6,9-HxCDF	5.56e5	0.50	NO	1.00	10.074	33.710	33.65	1.000	1.000	198.54	100	0.637	
39	39 Total Tetra-Dioxins				0.950	10.074	24.620		0.000		0.89760		0.0764	1.03
40	40 Total Penta-Dioxins				0.885	10.074	29.960		0.000		0.21620		0.140	0.838
41	41 Total Hexa-Dioxins				0.915	10.074	33.635		0.000		2.7118		0.159	2.71
42	42 Total Hepta-Dioxins				0.870	10.074	37.640		0.000		6.8887		0.227	6.89
43	43 Total Tetra-Furans				0.824	10.074	23.610		0.000		0.23704		0.0392	0.237
44	44 1st Func. Penta-Furans				0.963	10.074	26.930		0.000				0.00667	
45	45 Total Penta-Furans				0.963	10.074	29.275		0.000				0.0175	
46	46 Total Hexa-Furans				0.991	10.074	33.555		0.000				0.0283	
47	47 Total Hepta-Furans				0.999	10.074	37.835		0.000		0.12626		0.0475	0.126

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-6.qld

Last Altered: Tuesday, December 01, 2020 11:25:03 AM Pacific Standard Time

Printed: Tuesday, December 01, 2020 11:30:47 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R2_6, Date: 26-Nov-2020, Time: 01:16:13, ID: 2002374-02 USMPDI-046SC-A-02-03-201029 15.53, Description: USMPDI-046SC-A-02-03-201029

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.16	2.717e3	2.497e3	1.763e2	1.695e2	1.04	YES	0.000e0	0.00000	0.13131	0.0764
2	Total Tetra-Dioxins	24.00	1.351e4	1.443e4	8.348e2	1.216e3	0.69	NO	2.051e3	0.89760	0.89760	0.0764

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.54	1.782e3	3.596e3	1.086e2	1.813e2	0.60	NO	2.898e2	0.21620	0.21620	0.140
2	Total Penta-Dioxins	29.01	4.936e3	8.510e3	2.252e2	4.371e2	0.52	YES	0.000e0	0.00000	0.43473	0.140
3	Total Penta-Dioxins	30.00	2.335e3	2.897e3	1.379e2	1.535e2	0.90	YES	0.000e0	0.00000	0.18666	0.140

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.50	2.859e4	2.185e4	1.554e3	1.169e3	1.33	NO	2.723e3	1.8554	1.8554	0.159
2	Total Hexa-Dioxins	33.40	1.028e4	8.005e3	6.817e2	5.753e2	1.19	NO	1.257e3	0.85640	0.85640	0.159

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.99	3.014e4	3.131e4	2.762e3	2.604e3	1.06	NO	5.366e3	4.6174	4.6174	0.227
2	1,2,3,4,6,7,8-HpCDD	38.03	1.886e4	1.784e4	1.418e3	1.221e3	1.16	NO	2.639e3	2.2713	2.2713	0.227

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.37	3.721e3	6.066e3	3.345e2	4.889e2	0.68	NO	8.234e2	0.23704	0.23704	0.0392

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-6.qld

Last Altered: Tuesday, December 01, 2020 11:25:03 AM Pacific Standard Time

Printed: Tuesday, December 01, 2020 11:30:47 AM Pacific Standard Time

Name: 201125R2_6, Date: 26-Nov-2020, Time: 01:16:13, ID: 2002374-02 USMPDI-046SC-A-02-03-201029 15.53, Description: USMPDI-046SC-A-02-03-201029

Penta-Furans function 1

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

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.59	2.150e3	1.599e3	1.022e2	1.054e2	0.97	NO	2.076e2	0.12626	0.12626	0.0422

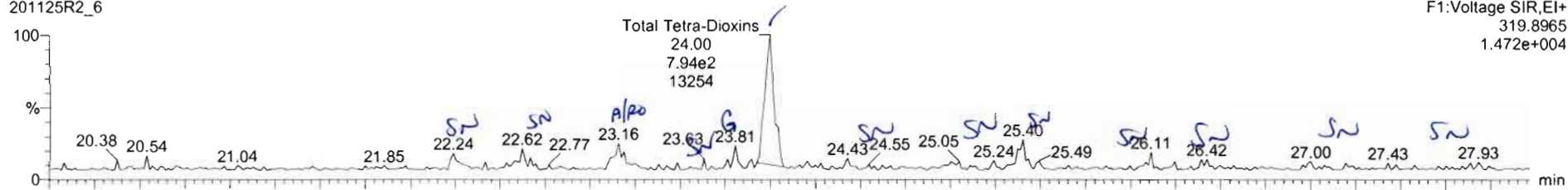
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Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_6, Date: 26-Nov-2020, Time: 01:16:13, ID: 2002374-02 USMPDI-046SC-A-02-03-201029 15.53, Description: USMPDI-046SC-A-02-03-201029

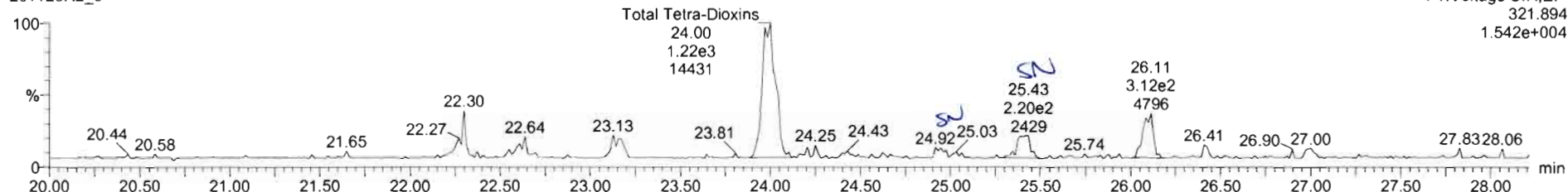
2,3,7,8-TCDD

201125R2_6



F1:Voltage SIR,EI+
319.8965
1.472e+004

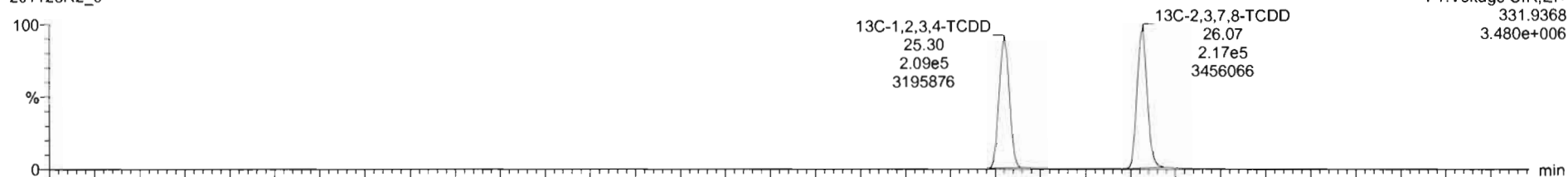
201125R2_6



F1:Voltage SIR,EI+
321.894
1.542e+004

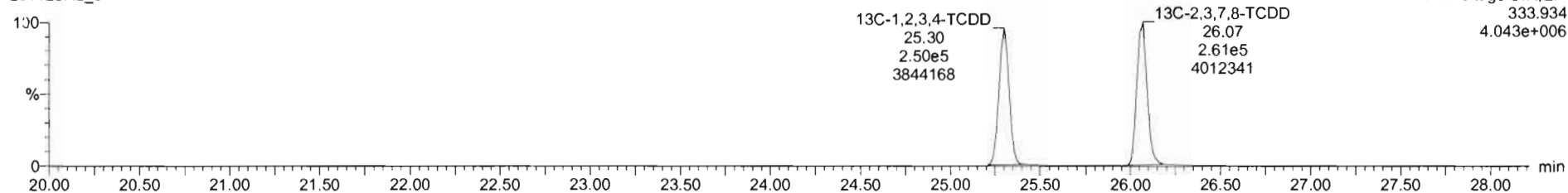
13C-2,3,7,8-TCDD

201125R2_6

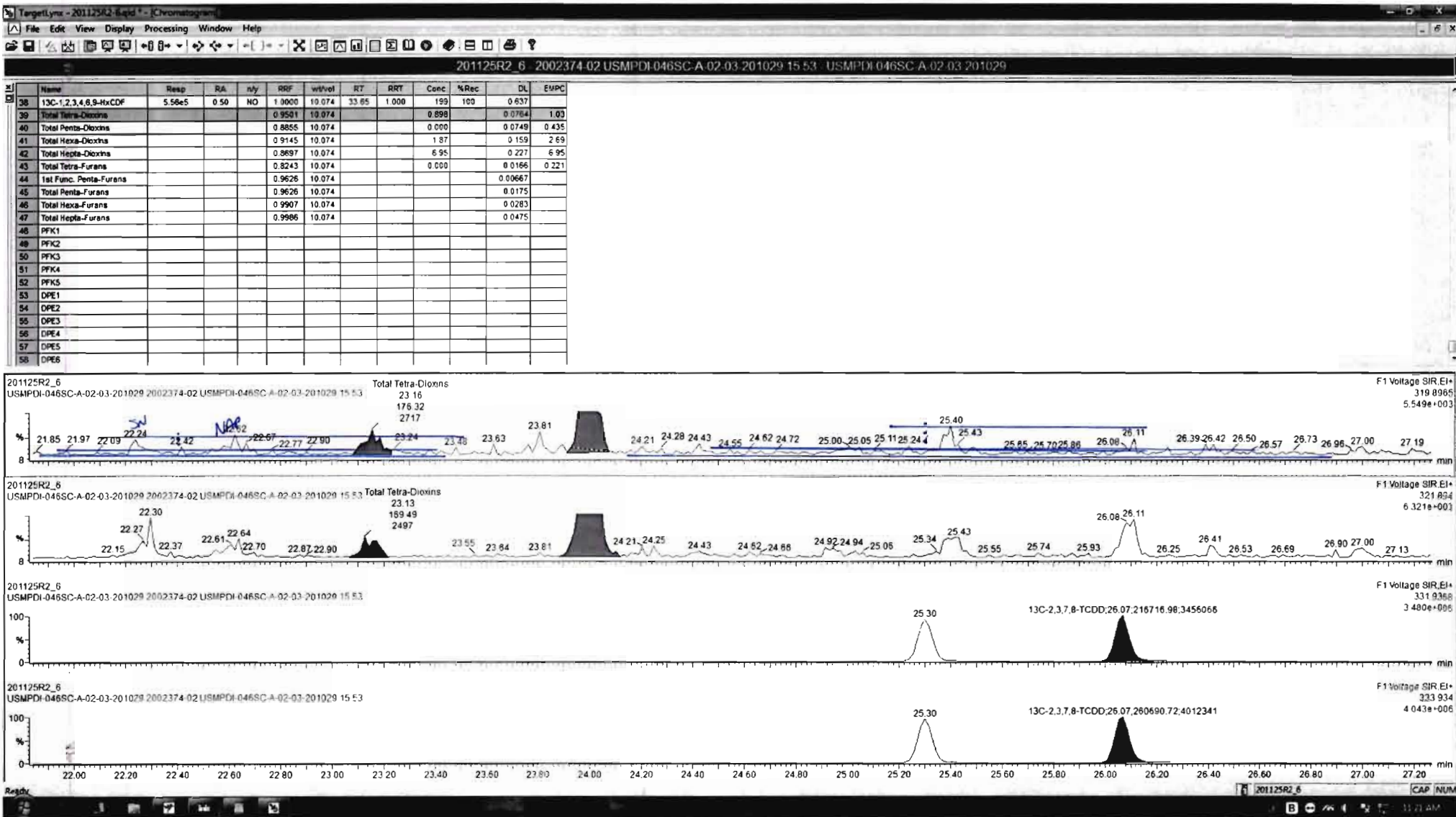


F1:Voltage SIR,EI+
331.9368
3.480e+006

201125R2_6



F1:Voltage SIR,EI+
333.934
4.043e+006



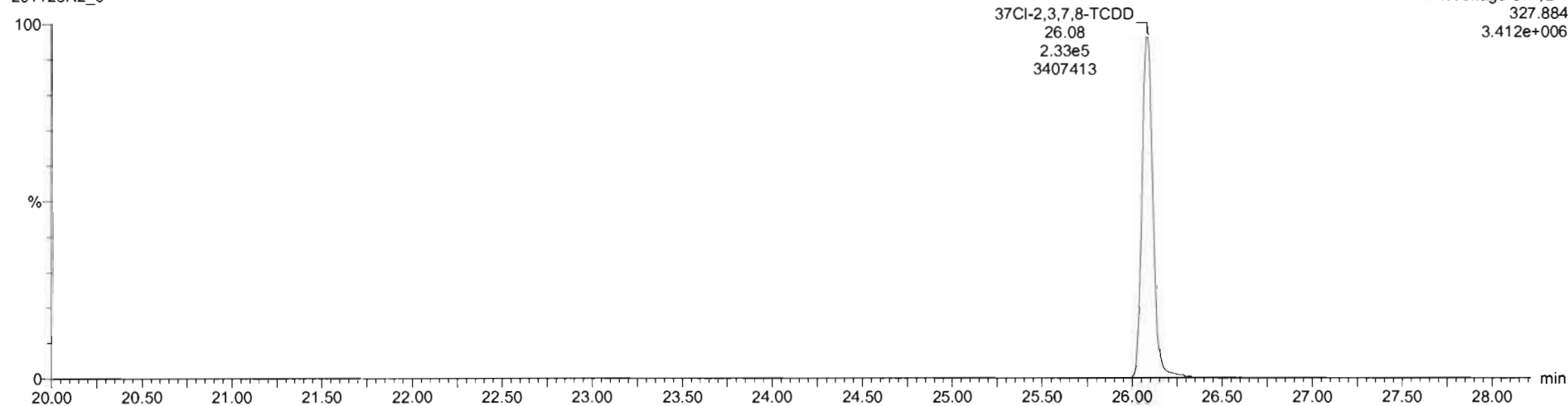
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Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_6, Date: 26-Nov-2020, Time: 01:16:13, ID: 2002374-02 USMPDI-046SC-A-02-03-201029 15.53, Description: USMPDI-046SC-A-02-03-201029

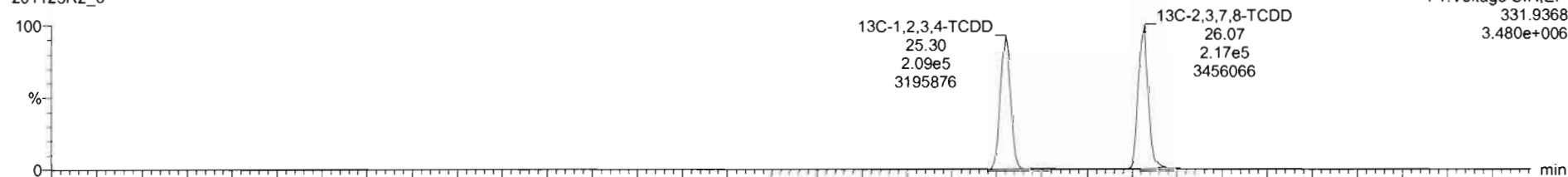
37Cl-2,3,7,8-TCDD

201125R2_6

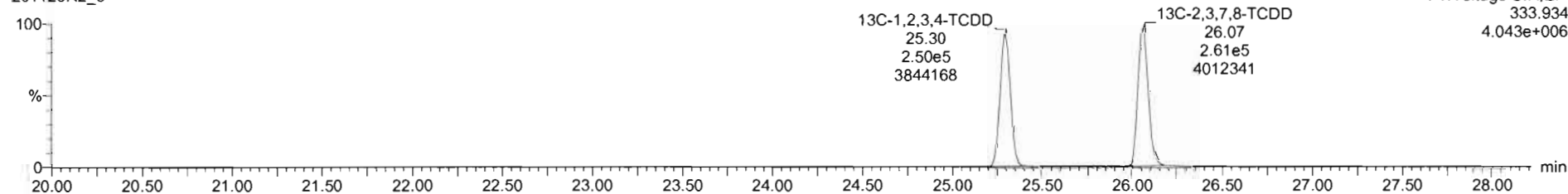


13C-1,2,3,4-TCDD

201125R2_6



201125R2_6



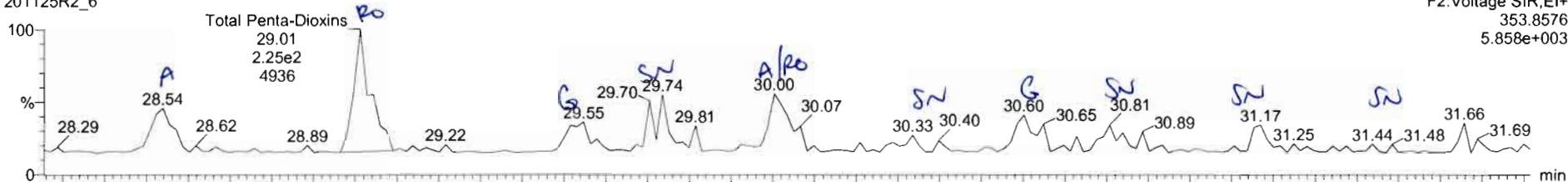
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Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

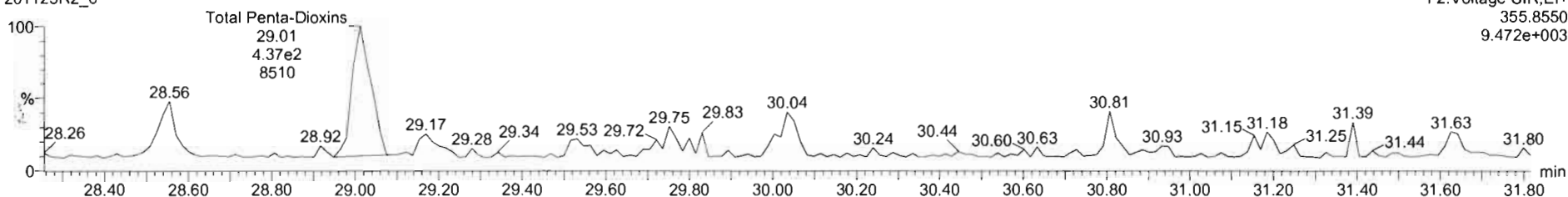
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1,2,3,7,8-PeCDD

201125R2_6

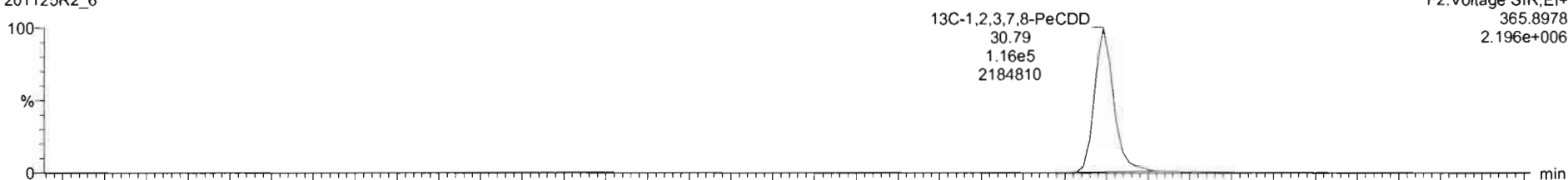


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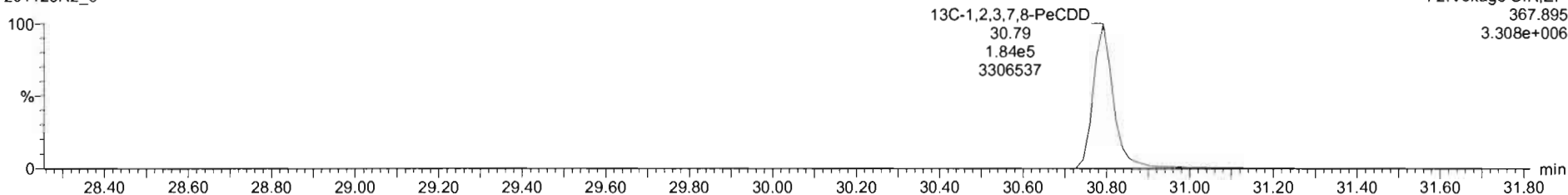


13C-1,2,3,7,8-PeCDD

201125R2_6



201125R2_6

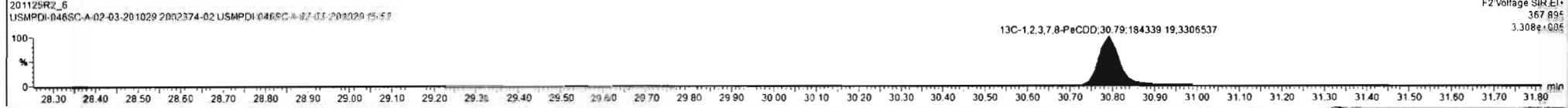
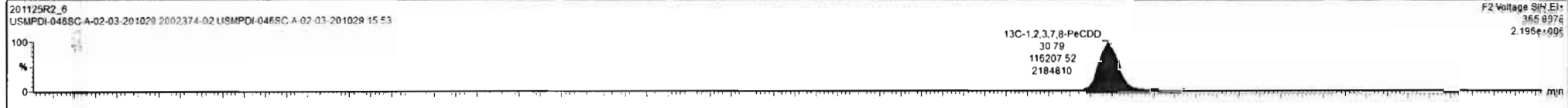
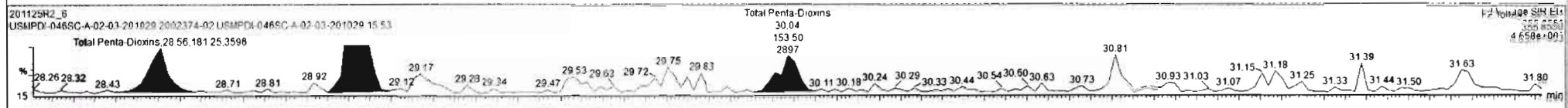
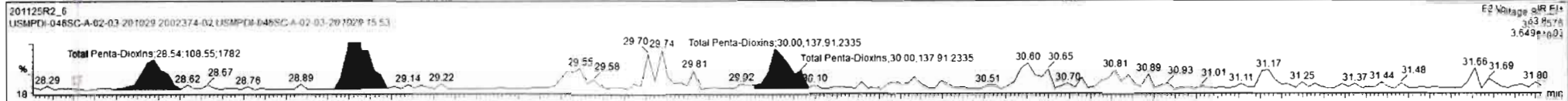


TargetLynx - 201125R2_6.qld - (Chromatogram)

File Edit View Display Processing Window Help

201125R2_6 - 2002374-02 USMPDI-046SC-A-02-03-201029 15:53 - USMPDI-046SC-A-02-03-201029

Name	Res	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	5.56e5	0.50	NO	1.0000	10.074	33.85	1.000	199	100	0.537
39	Total Tetra-Dioxins				0.9501	10.074			0.898		0.0764
40	Total Penta-Dioxins				0.8855	10.074			0.216		0.140
41	Total Hexa-Dioxins				0.9145	10.074			1.87		0.159
42	Total Hepta-Dioxins				0.8697	10.074			6.95		0.227
43	Total Tetra-Furans				0.8243	10.074			0.000		0.0166
44	1st Func. Penta-Furans				0.9626	10.074					0.00667
45	Total Penta-Furans				0.9626	10.074					0.0175
46	Total Hexa-Furans				0.9907	10.074					0.0283
47	Total Hepta-Furans				0.9986	10.074					0.0475
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										



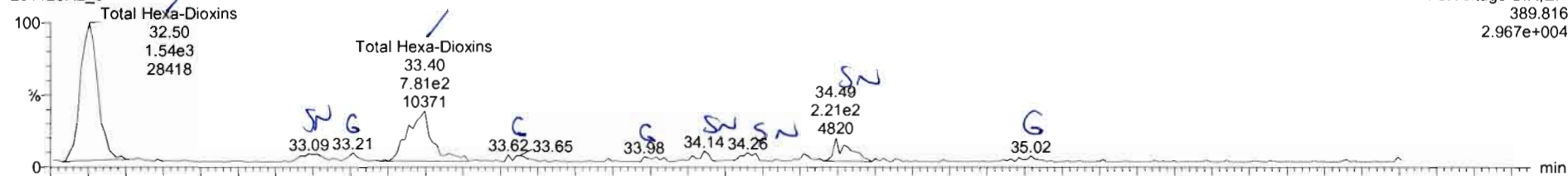
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Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_6, Date: 26-Nov-2020, Time: 01:16:13, ID: 2002374-02 USMPDI-046SC-A-02-03-201029 15.53, Description: USMPDI-046SC-A-02-03-201029

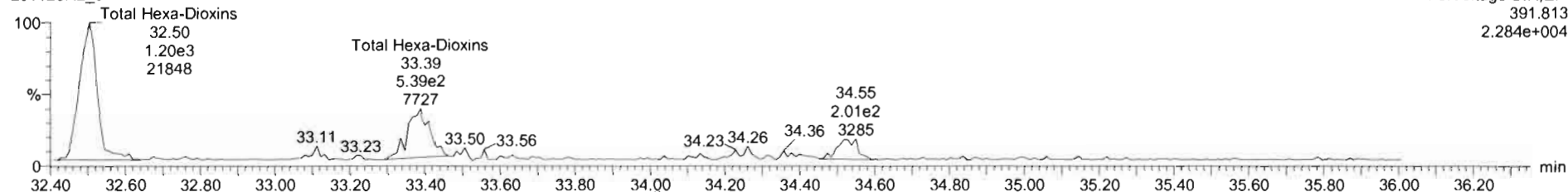
1,2,3,4,7,8-HxCDD

201125R2_6



F3:Voltage SIR,EI+
389.816
2.967e+004

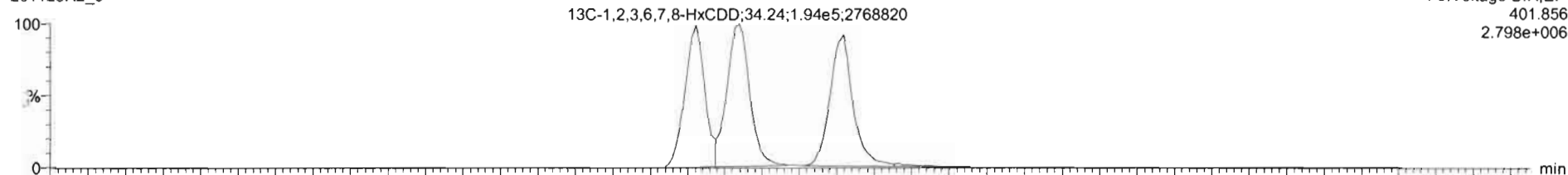
201125R2_6



F3:Voltage SIR,EI+
391.813
2.284e+004

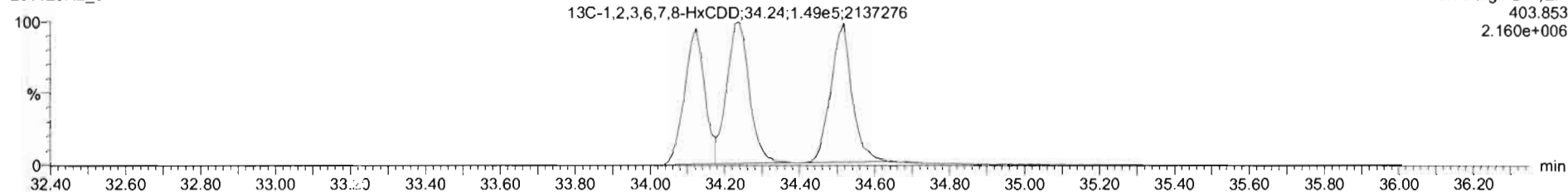
13C-1,2,3,4,7,8-HxCDD

201125R2_6

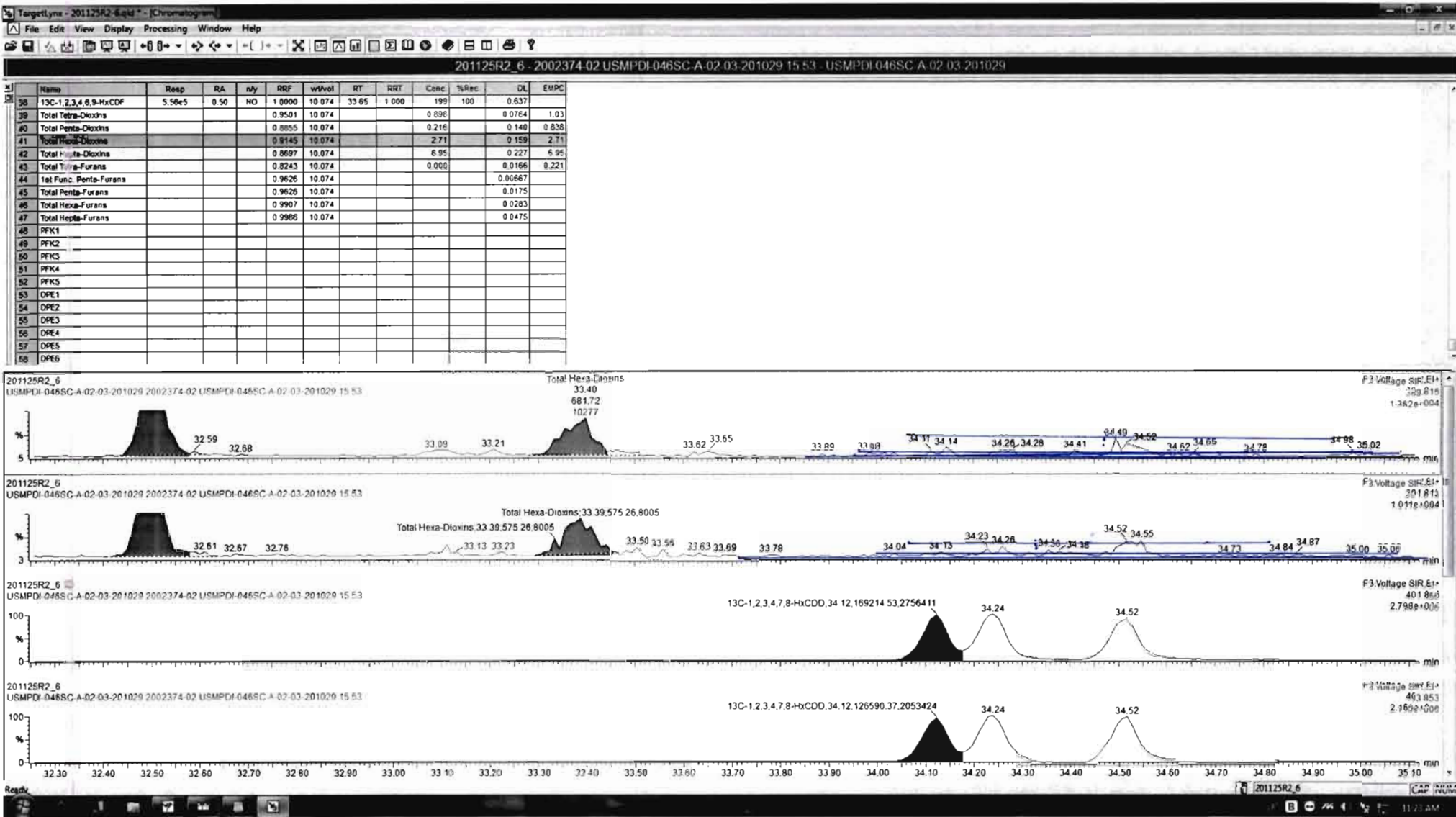


F3:Voltage SIR,EI+
401.856
2.798e+006

201125R2_6



F3:Voltage SIR,EI+
403.853
2.160e+006



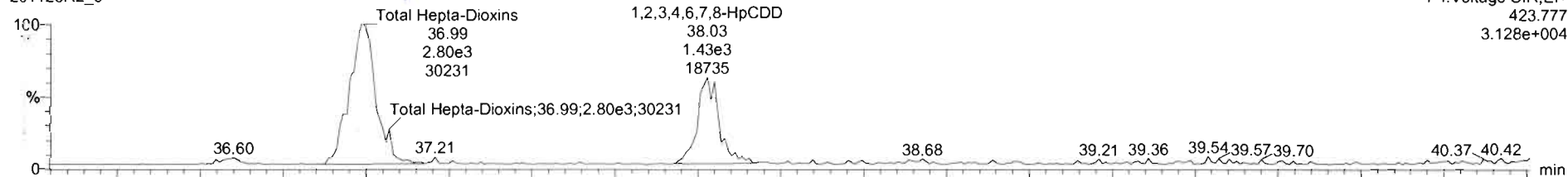
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Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

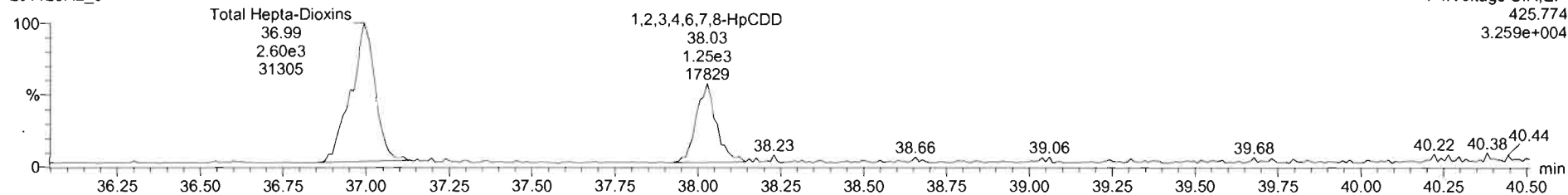
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1,2,3,4,6,7,8-HpCDD

201125R2_6

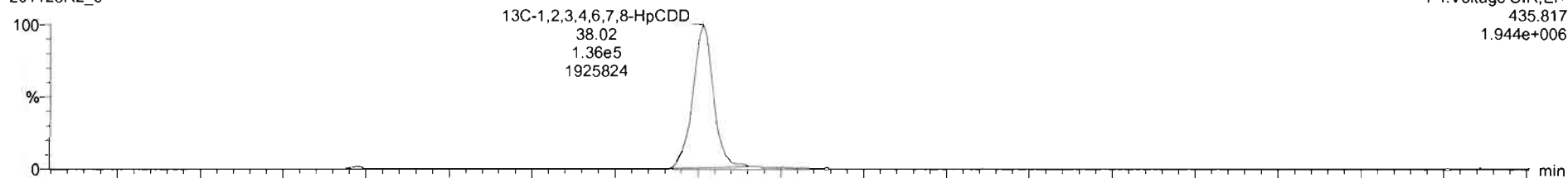


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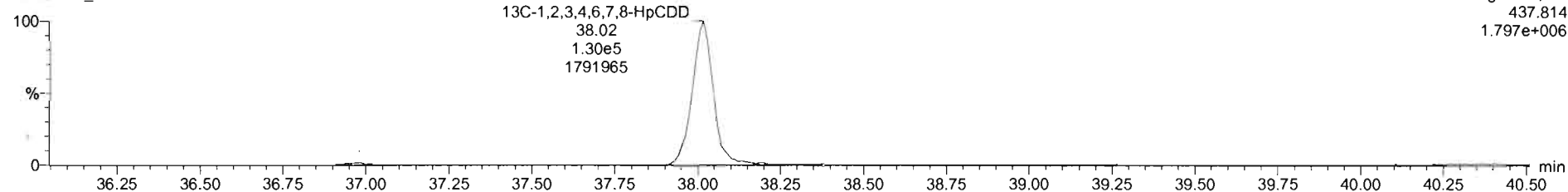


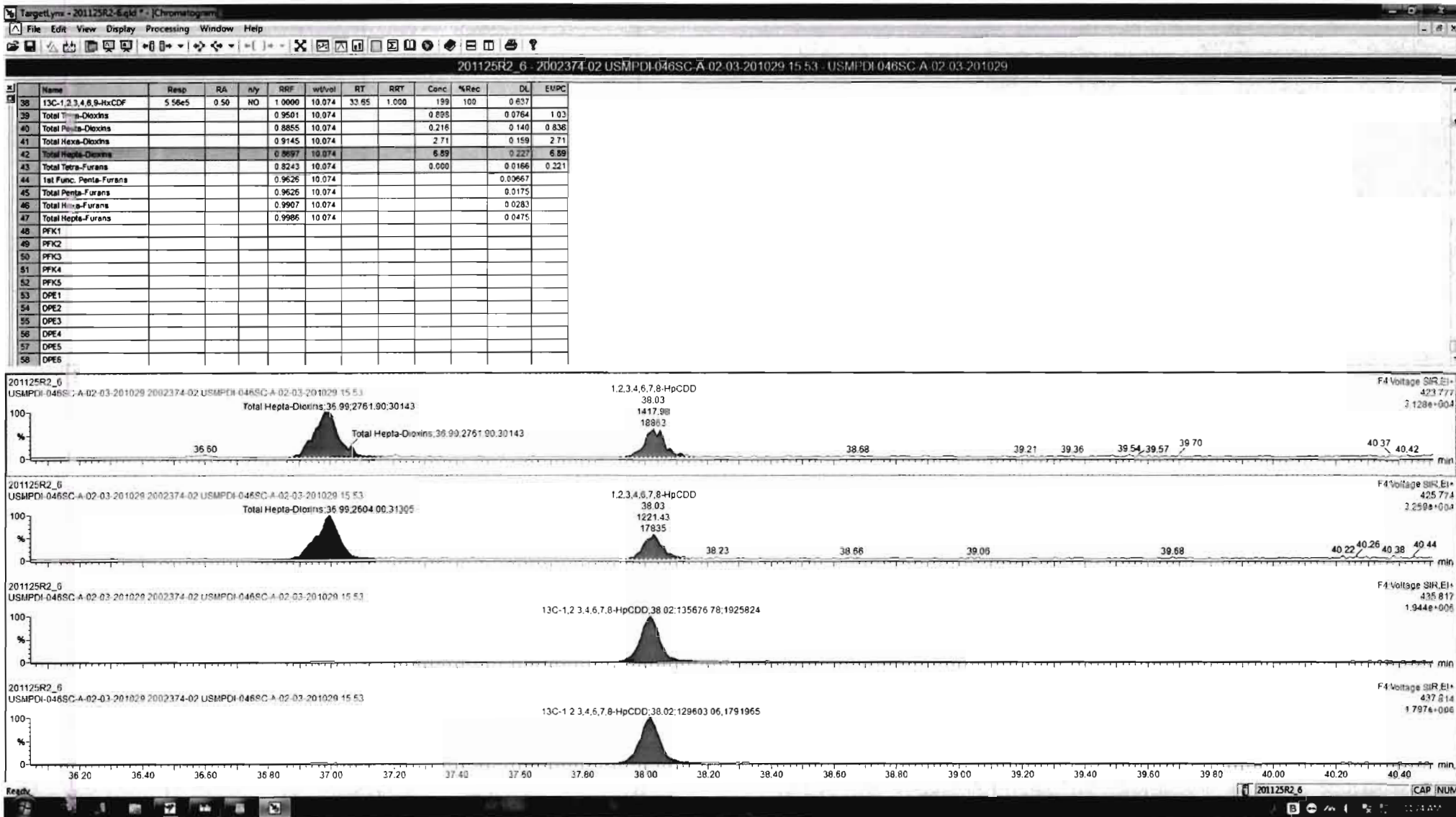
13C-1,2,3,4,6,7,8-HpCDD

201125R2_6



201125R2_6





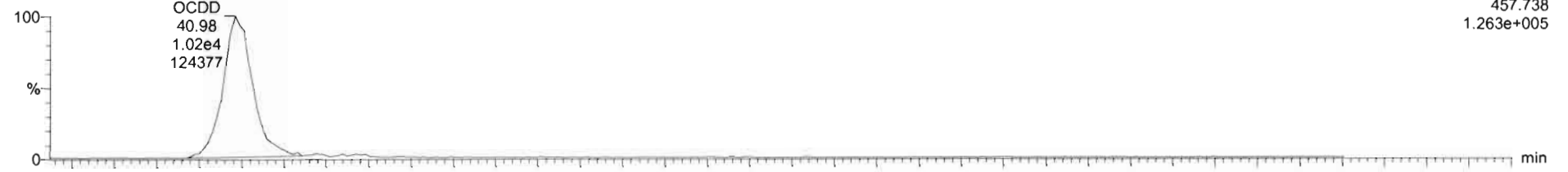
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Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

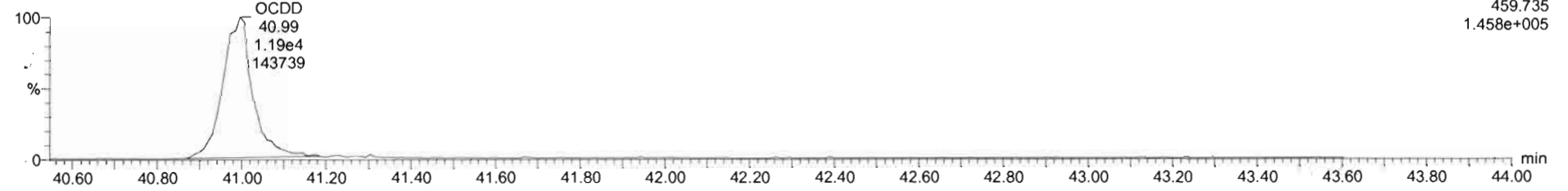
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OCDD

201125R2_6

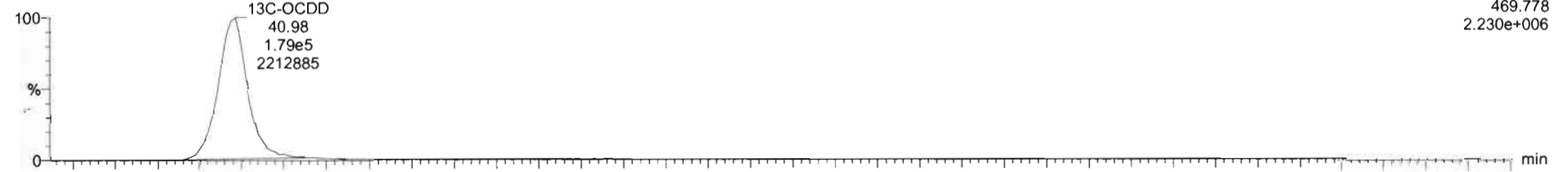


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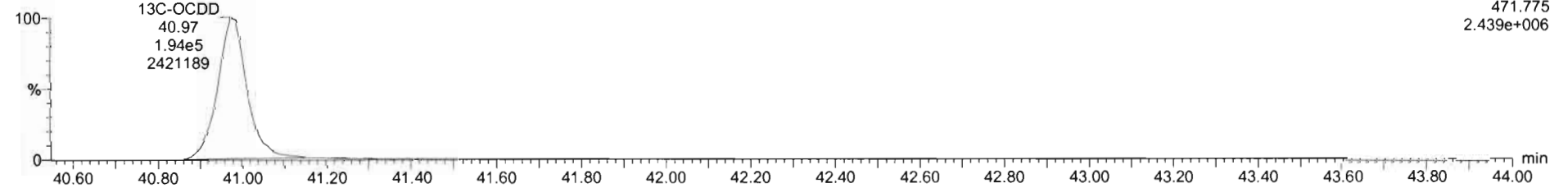


13C-OCDD

201125R2_6



201125R2_6



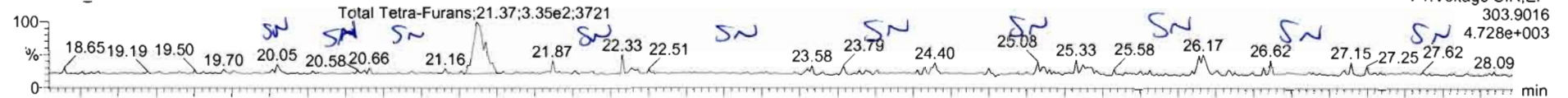
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Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

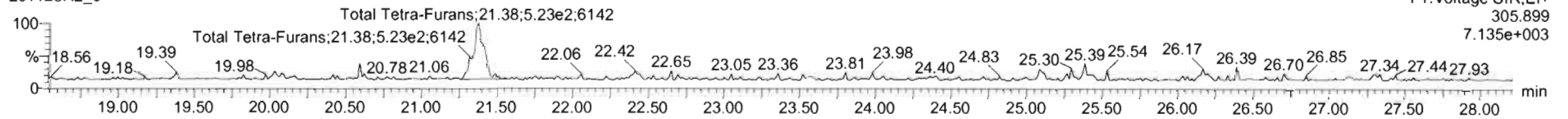
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2,3,7,8-TCDF

201125R2_6

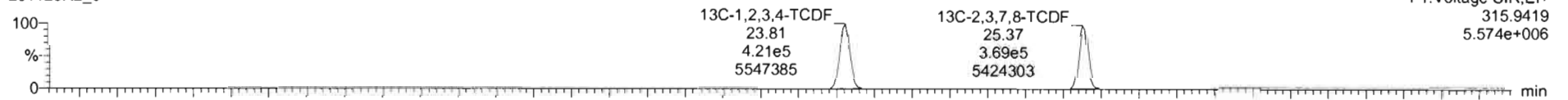


201125R2_6

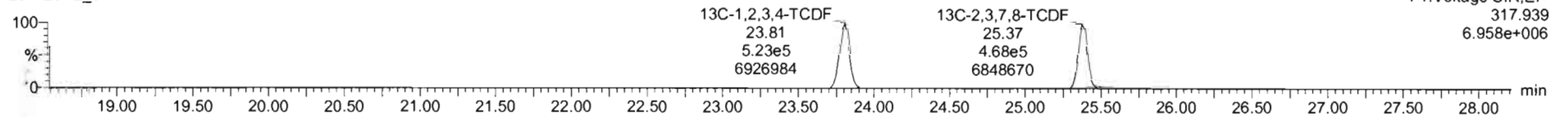


13C-2,3,7,8-TCDF

201125R2_6

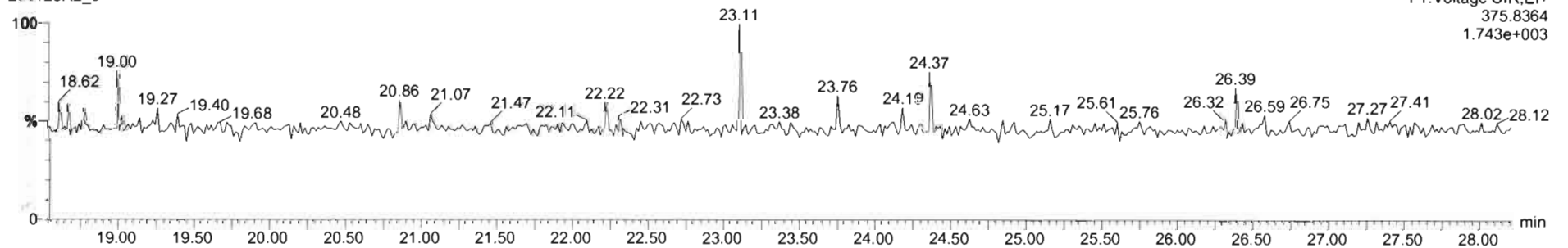


201125R2_6



DPE1

201125R2_6

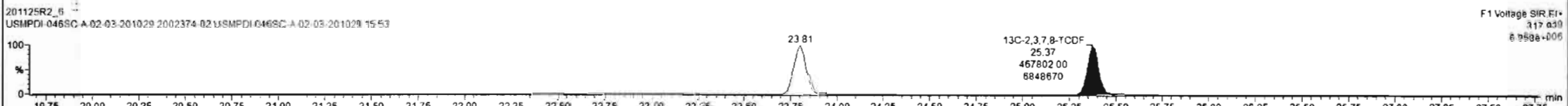
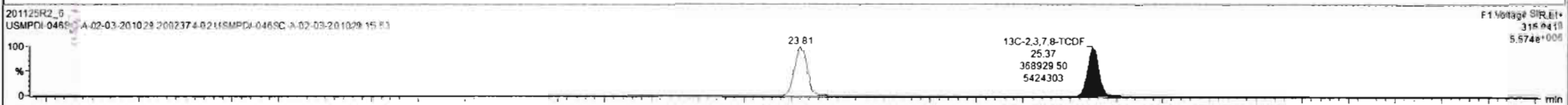
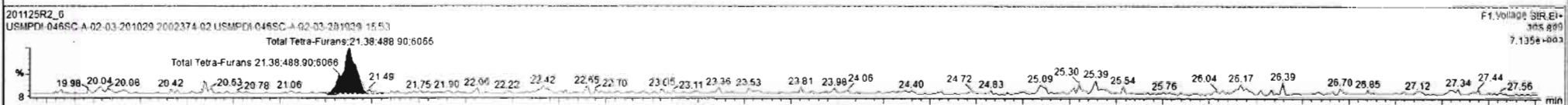
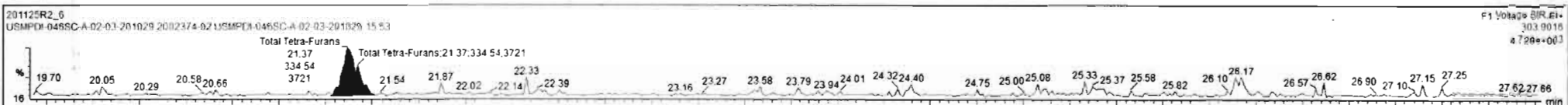


TargetLynx - 201125R2_6.qtd - [Chromatogram]

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201125R2_6 - 2002374-02 USMPDI-046SC-A 02-03-201029 15:53 - USMPDI-046SC-A 02-03-201029

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	5.56e5	0.50	NO	1.0000	10.074	33.65	1.000	199	100	0.637
39	Total Tetra-Dioxins				0.9501	10.074			0.898		1.03
40	Total Penta-Dioxins				0.8855	10.074			0.216		0.636
41	Total Hexa-Dioxins				0.9145	10.074			2.71		2.71
42	Total Hepta-Dioxins				0.8697	10.074			6.89		6.89
43	Total Tetra-Furans				0.8243	10.074			0.237		0.237
44	1st Func. Penta-Furans				0.9626	10.074					0.00667
45	Total Penta-Furans				0.9626	10.074					0.0175
46	Total Hexa-Furans				0.9907	10.074					0.0283
47	Total Hepta-Furans				0.9966	10.074					0.0475
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										



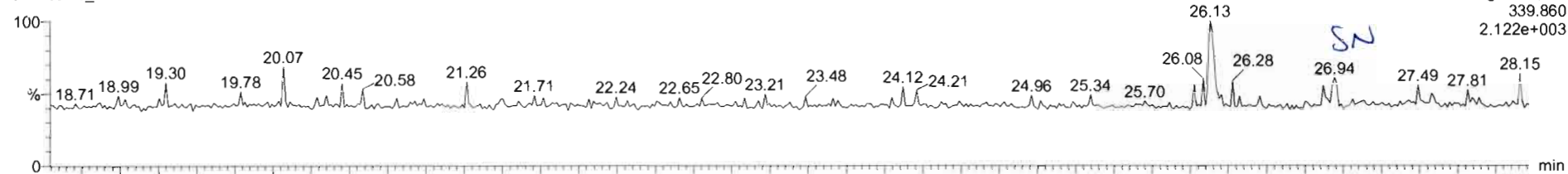
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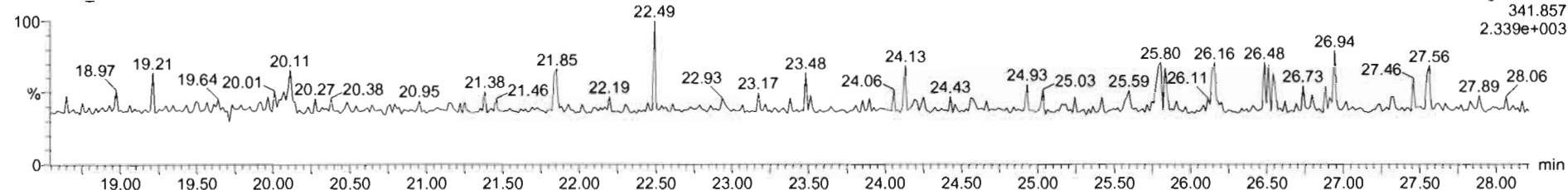
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1st Func. Penta-Furans

201125R2_6

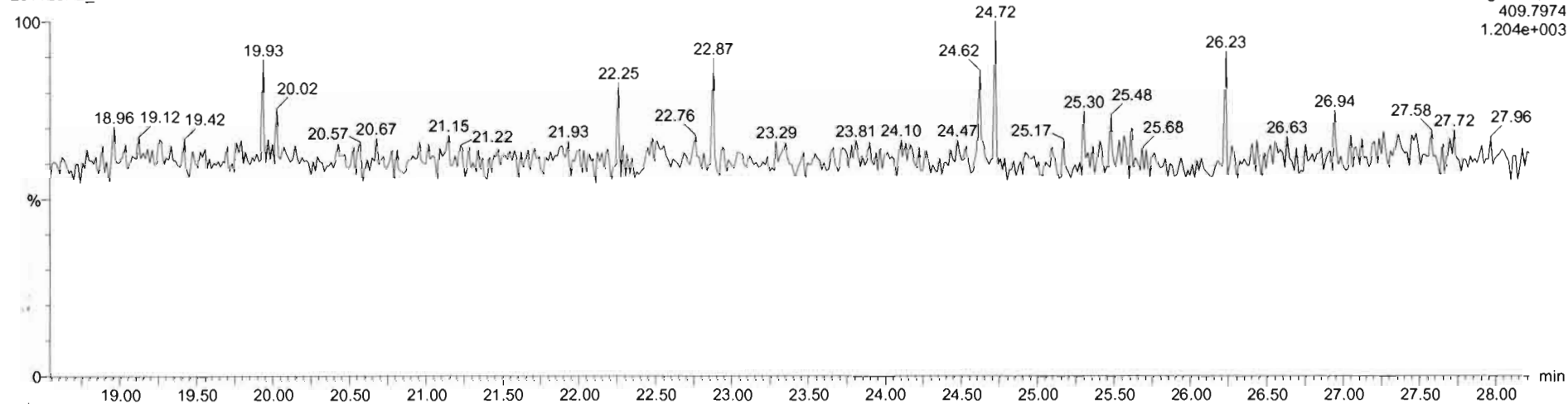


201125R2_6



DPE6

201125R2_6

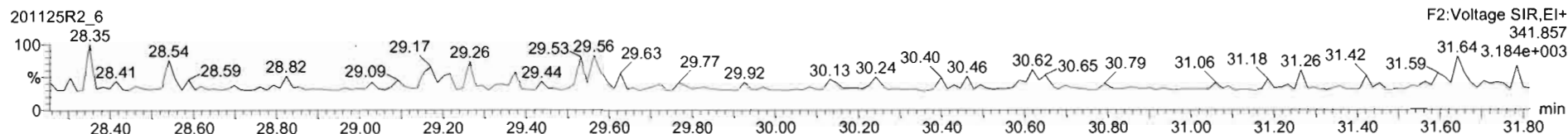
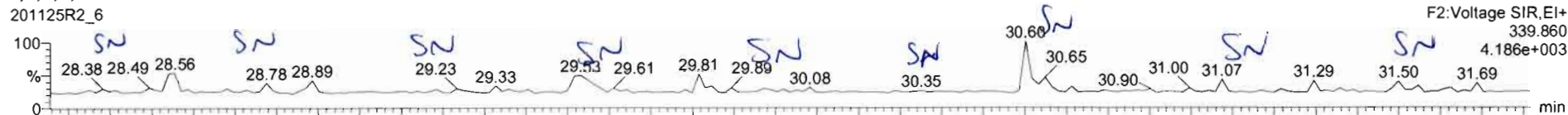


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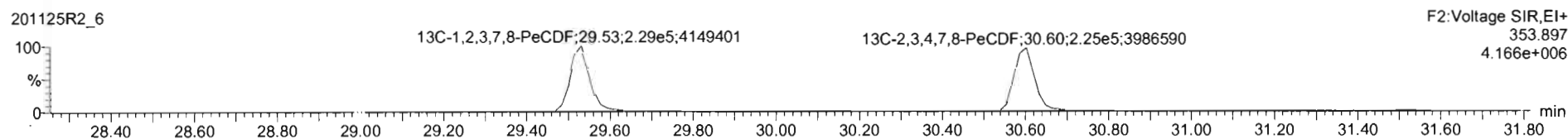
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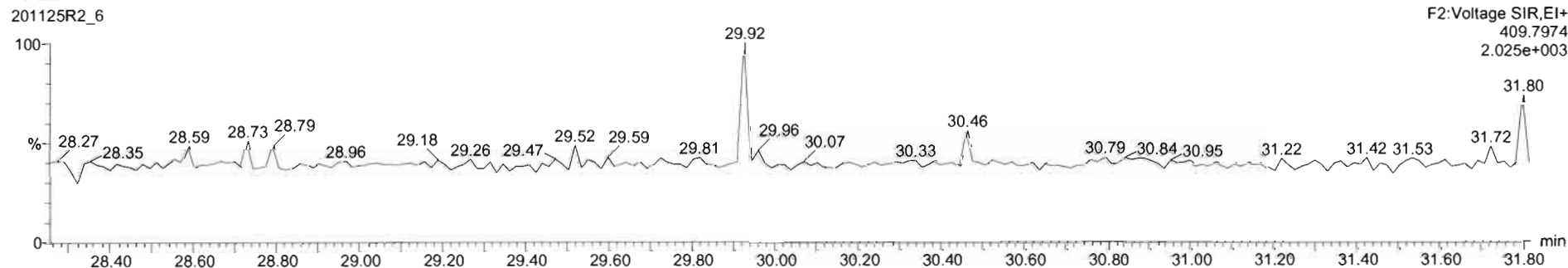
1,2,3,7,8-PeCDF



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



DPE2

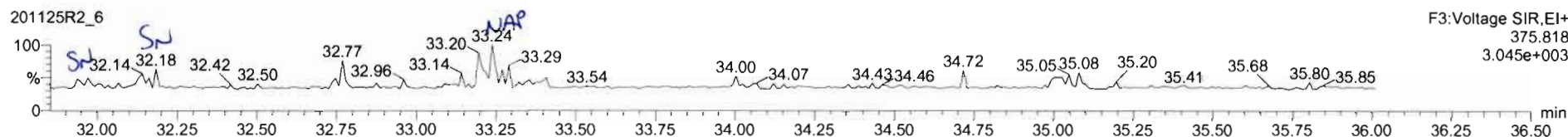
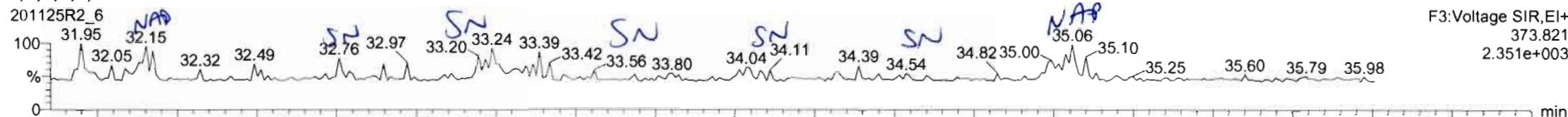


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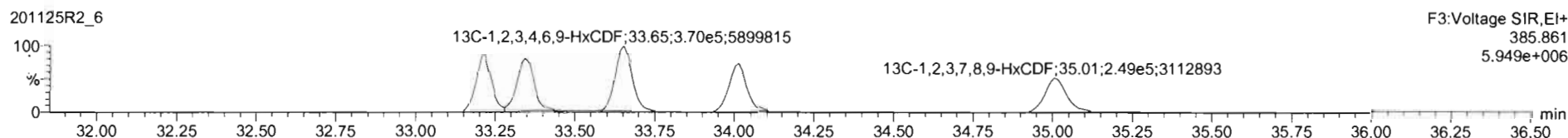
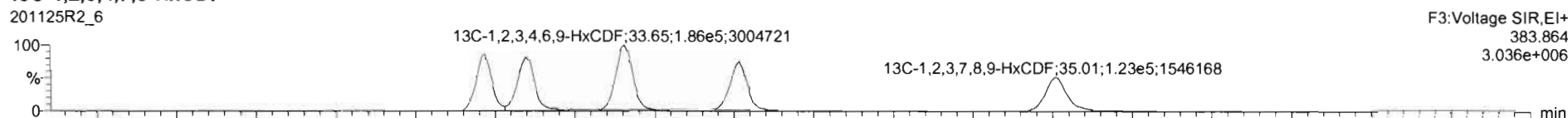
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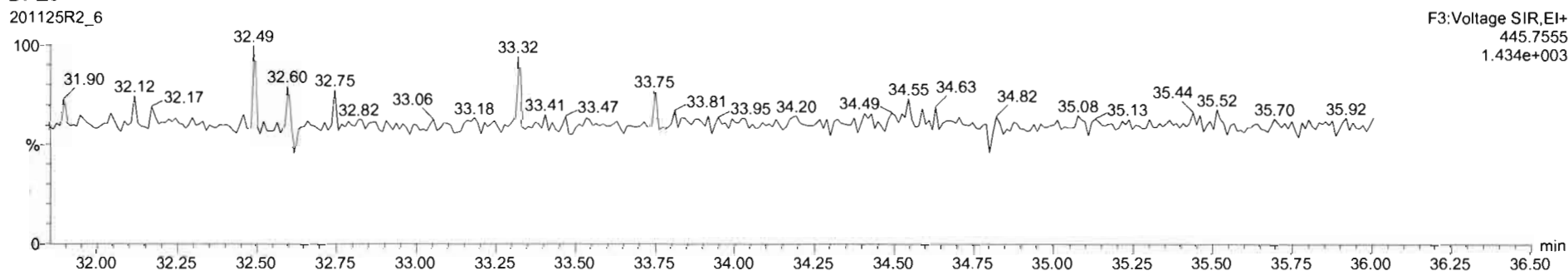
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13C-1,2,3,4,7,8-HxCDF



DPE3

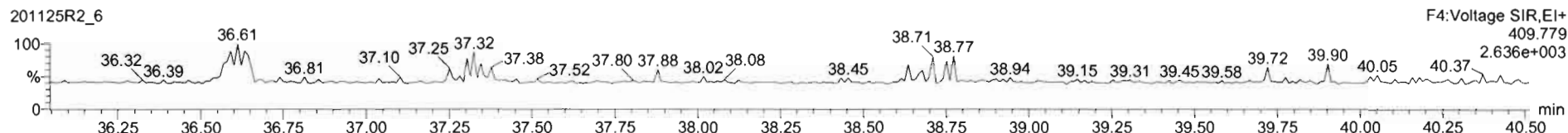
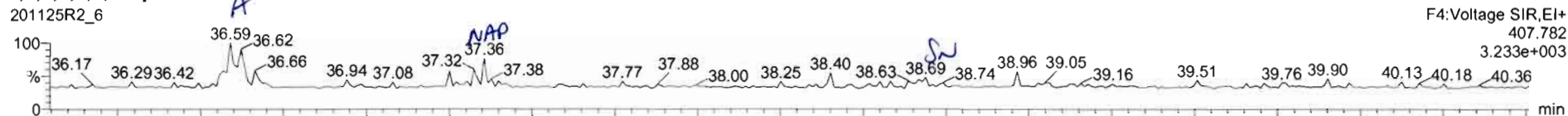


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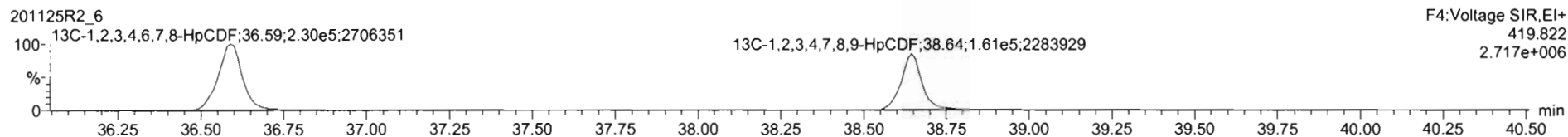
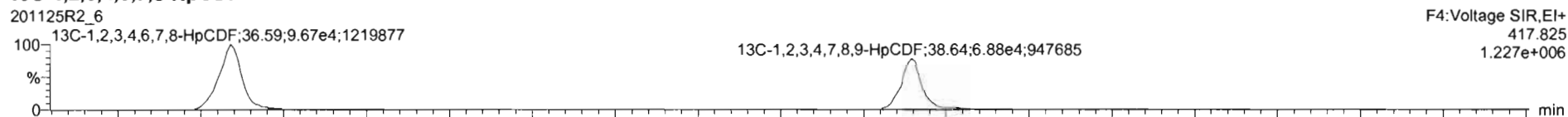
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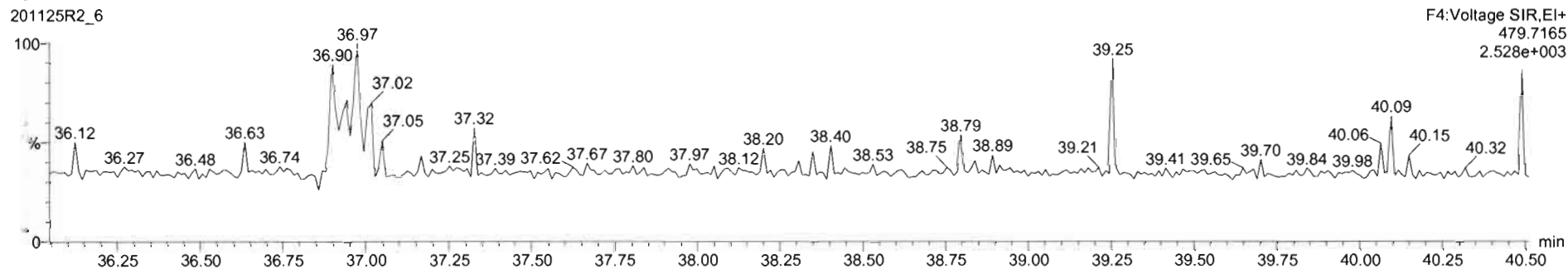
1,2,3,4,6,7,8-HpCDF



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



DPE4

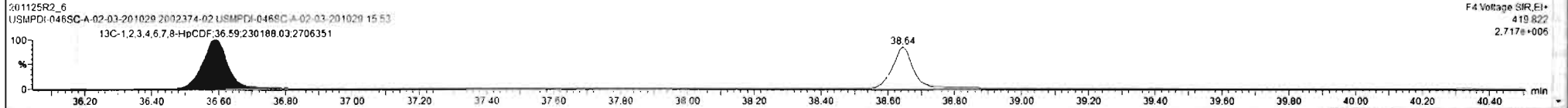
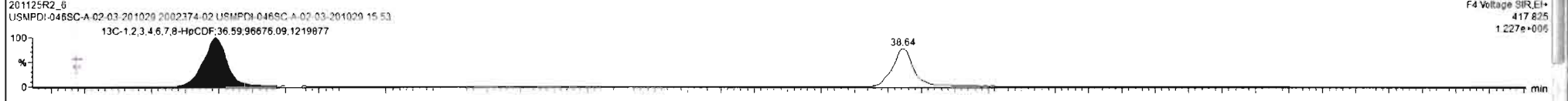
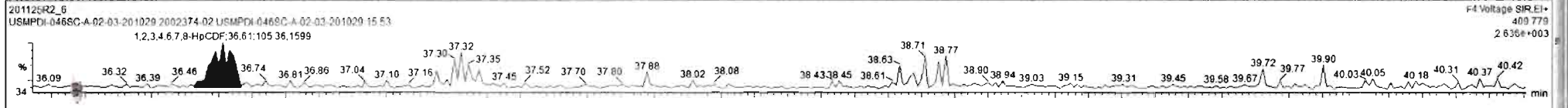
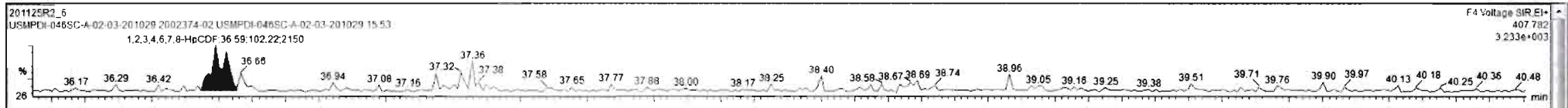


TargetLynx - 201125R2_6.qld - (Chromatogram)

File Edit View Display Processing Window Help

201125R2_6_2002374-02 USMPDI-046SC-A-02-03-201029 15:53 USMPDI-046SC-A-02-03-201029

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
35	13C-1,2,3,4,6,9-HpCDF	5.56e5	0.50	NO	1.0000	10.074	33.65	1.000	199	100	0.637
39	Total Tetra-Dioxins				0.9501	10.074			0.838	0.0764	1.03
40	Total Penta-Dioxins				0.8855	10.074			0.216	0.140	0.835
41	Total Hexa-Dioxins				0.9145	10.074			2.71	0.159	2.71
42	Total Hepta-Dioxins				0.8697	10.074			6.89	0.227	6.89
43	Total Tetra-Furans				0.8243	10.074			0.237	0.0392	0.237
44	1st Func. Penta-Furans				0.9626	10.074				0.00667	
45	Total Penta-Furans				0.9626	10.074				0.0175	
46	Total Hexa-Furans				0.9907	10.074				0.0283	
47	Total Hepta-Furans				0.9986	10.074			0.126	0.0475	0.126
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										

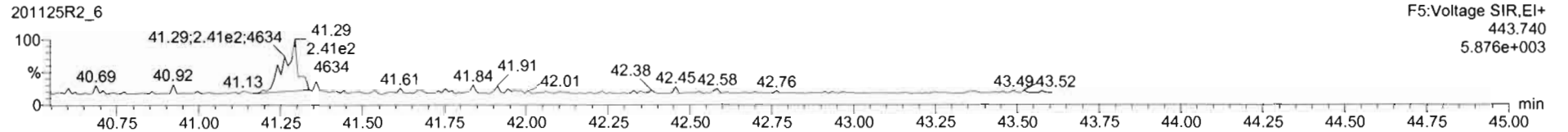
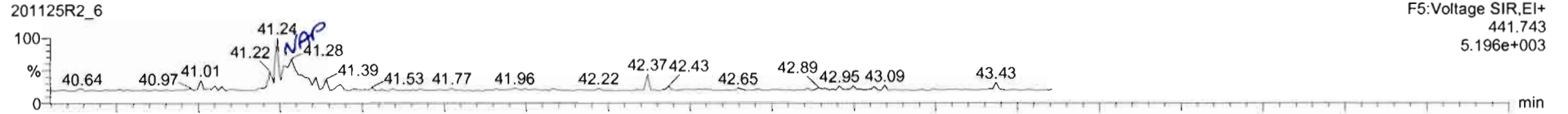


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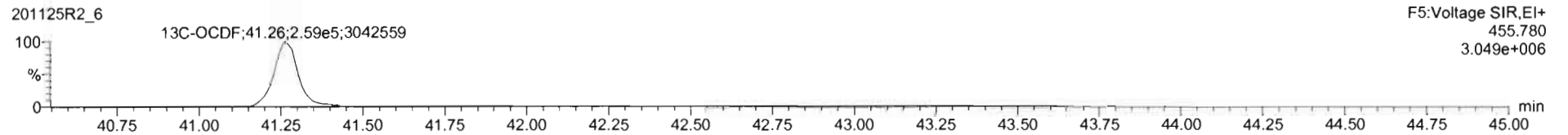
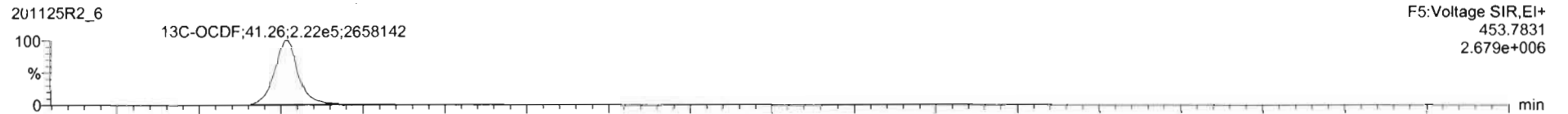
Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_6, Date: 26-Nov-2020, Time: 01:16:13, ID: 2002374-02 USMPDI-046SC-A-02-03-201029 15.53, Description: USMPDI-046SC-A-02-03-201029

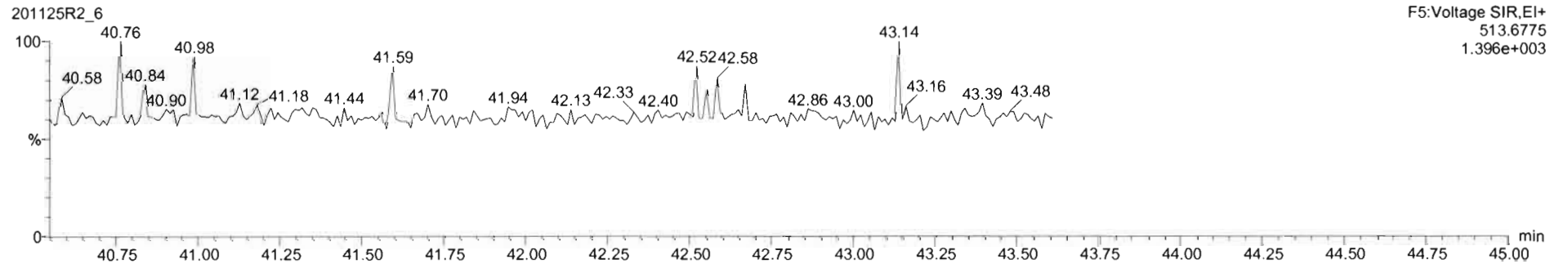
OCDF



13C-OCDF



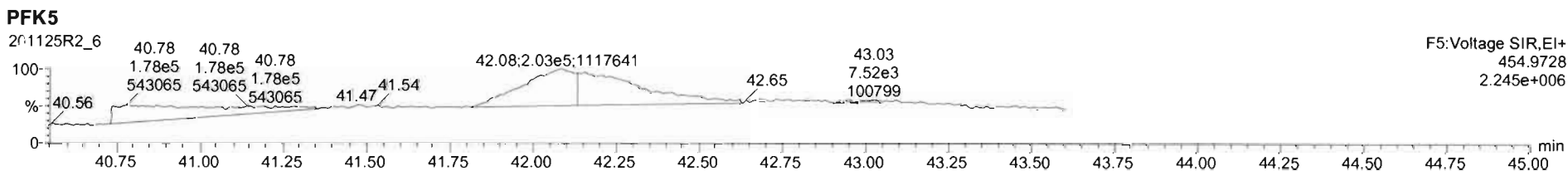
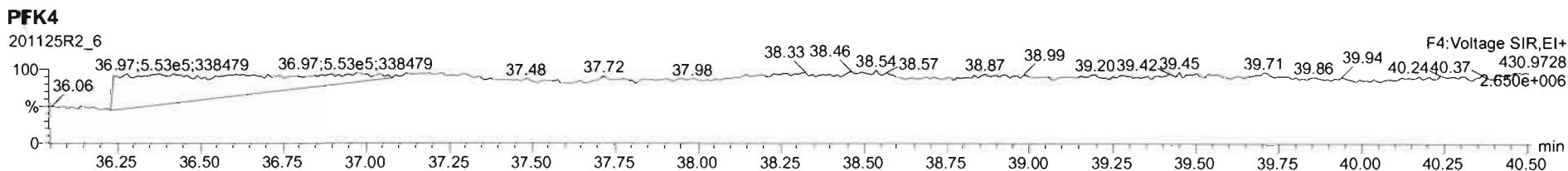
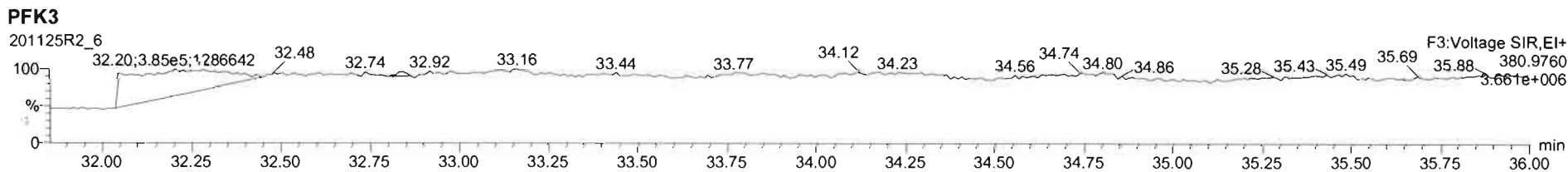
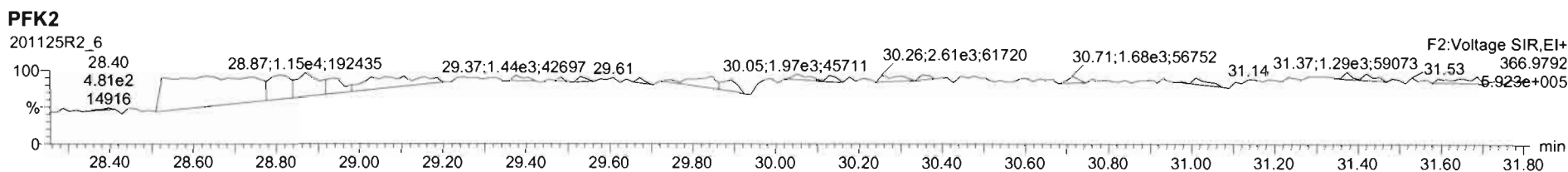
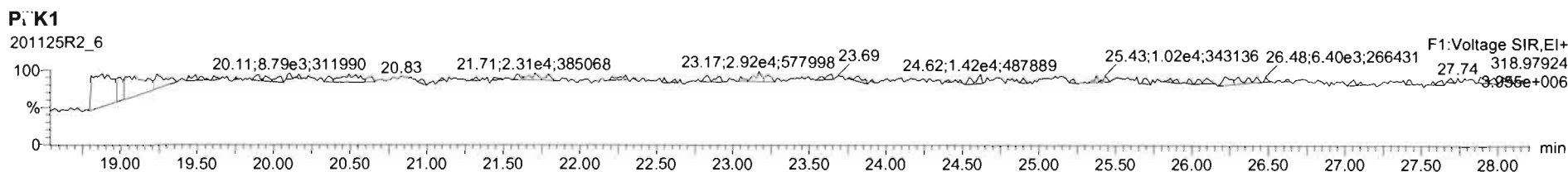
DPE5



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Dataset: U:\VG12.PRO\Results\201125R2\201125R2-7.qld

Last Altered: Tuesday, December 01, 2020 11:40:27 AM Pacific Standard Time
Printed: Tuesday, December 01, 2020 11:43:07 AM Pacific Standard Time

GRB 12/01/2020

CT 12/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R2_7, Date: 26-Nov-2020, Time: 02:01:05, ID: 2002374-03 USMPDI-046SC-A-03-04-201029 16.27, Description: USMPDI-046SC-A-03-04-201029

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.950	10.107	26.097		1.001				0.102	
2	2 1,2,3,7,8-PeCDD			NO	0.885	10.107	30.816		1.000				0.292	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.107	34.132		1.000				0.169	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.107	34.260		1.000				0.163	
5	5 1,2,3,7,8,9-HxCDD			NO	0.934	10.107	34.537		1.000				0.180	
6	6 1,2,3,4,6,7,8-HpCDD	2.41e3	1.16	NO	0.870	10.107	38.027	38.03	1.000	1.000	2.3433		0.223	2.34
7	7 OCDD	2.18e4	0.92	NO	0.872	10.107	40.995	41.01	1.000	1.000	28.096		0.345	28.1
8	8 2,3,7,8-TCDF			NO	0.824	10.107	25.381		1.000				0.0477	
9	9 1,2,3,7,8-PeCDF			NO	0.963	10.107	29.540		1.000				0.0465	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.107	30.602		1.000				0.0391	
11	11 1,2,3,4,7,8-HxCDF			NO	0.953	10.107	33.227		1.000				0.0347	
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.107	33.355		1.000				0.0345	
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	10.107	34.018		1.000				0.0385	
14	14 1,2,3,7,8,9-HxCDF			NO	0.951	10.107	35.017		1.000				0.0609	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.999	10.107	36.604		1.000				0.0530	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	10.107	38.656		1.000				0.0579	
17	17 OCDF			NO	0.868	10.107	41.291		1.000				0.150	
18	18 13C-2,3,7,8-TCDD	4.48e5	0.81	NO	1.11	10.107	26.058	26.07	1.030	1.030	185.78	93.9	0.381	
19	19 13C-1,2,3,7,8-PeCDD	2.74e5	0.66	NO	0.859	10.107	30.774	30.81	1.216	1.218	146.46	74.0	0.758	
20	20 13C-1,2,3,4,7,8-HxCDD	2.54e5	1.29	NO	0.700	10.107	34.132	34.12	1.014	1.014	142.08	71.8	0.609	
21	21 13C-1,2,3,6,7,8-HxCDD	3.03e5	1.29	NO	0.833	10.107	34.270	34.25	1.018	1.017	142.18	71.8	0.512	
22	22 13C-1,2,3,7,8,9-HxCDD	2.84e5	1.33	NO	0.762	10.107	34.512	34.53	1.025	1.026	145.88	73.7	0.560	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.34e5	1.05	NO	0.650	10.107	37.997	38.03	1.129	1.130	141.03	71.3	0.742	
24	24 13C-OCDD	3.53e5	0.90	NO	0.539	10.107	40.962	40.99	1.217	1.218	255.65	64.6	0.656	
25	25 13C-2,3,7,8-TCDF	7.76e5	0.78	NO	0.981	10.107	25.380	25.37	1.003	1.003	173.50	87.7	0.386	
26	26 13C-1,2,3,7,8-PeCDF	5.35e5	1.62	NO	0.792	10.107	29.506	29.53	1.166	1.167	148.22	74.9	0.721	
27	27 13C-2,3,4,7,8-PeCDF	5.31e5	1.64	NO	0.778	10.107	30.564	30.60	1.208	1.210	149.66	75.6	0.734	
28	28 13C-1,2,3,4,7,8-HxCDF	3.88e5	0.50	NO	0.954	10.107	33.223	33.23	0.987	0.987	158.91	80.3	0.794	
29	29 13C-1,2,3,6,7,8-HxCDF	4.09e5	0.52	NO	1.01	10.107	33.354	33.35	0.991	0.991	159.05	80.4	0.753	
30	30 13C-2,3,4,6,7,8-HxCDF	3.76e5	0.51	NO	0.921	10.107	34.024	34.01	1.011	1.010	159.78	80.7	0.822	
31	31 13C-1,2,3,7,8,9-HxCDF	3.27e5	0.50	NO	0.803	10.107	35.021	35.02	1.040	1.040	159.09	80.4	0.943	

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-7.qld

Last Altered: Tuesday, December 01, 2020 11:40:27 AM Pacific Standard Time
Printed: Tuesday, December 01, 2020 11:43:07 AM Pacific Standard Time

Name: 201125R2_7, Date: 26-Nov-2020, Time: 02:01:05, ID: 2002374-03 USMPDI-046SC-A-03-04-201029 16.27, Description: USMPDI-046SC-A-03-04-201029

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.78e5	0.43	NO	0.735	10.107	36.589	36.60	1.087	1.087	147.74	74.7	0.671	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.96e5	0.42	NO	0.568	10.107	38.626	38.66	1.147	1.148	134.71	68.1	0.870	
34	34 13C-OCDF	4.43e5	0.91	NO	0.629	10.107	41.245	41.28	1.225	1.226	275.27	69.6	0.653	
35	35 37Cl-2,3,7,8-TCDD	2.12e5			1.09	10.107	26.058	26.10	1.030	1.032	89.544	113	0.0985	
36	36 13C-1,2,3,4-TCDD	4.30e5	0.83	NO	1.00	10.107	25.370	25.30	1.000	1.000	197.88	100	0.422	
37	37 13C-1,2,3,4-TCDF	9.02e5	0.78	NO	1.00	10.107	23.870	23.81	1.000	1.000	197.88	100	0.379	
38	38 13C-1,2,3,4,6,9-HxCDF	5.06e5	0.50	NO	1.00	10.107	33.710	33.66	1.000	1.000	197.88	100	0.757	
39	39 Total Tetra-Dioxins				0.950	10.107	24.620		0.000		3.2645		0.102	3.26
40	40 Total Penta-Dioxins				0.885	10.107	29.960		0.000		1.5168		0.292	1.52
41	41 Total Hexa-Dioxins				0.915	10.107	33.635		0.000		4.8489		0.178	4.85
42	42 Total Hepta-Dioxins				0.870	10.107	37.640		0.000		8.1558		0.223	8.16
43	43 Total Tetra-Furans				0.824	10.107	23.610		0.000		0.26432		0.0477	0.264
44	44 1st Func. Penta-Furans				0.963	10.107	26.930		0.000				0.0116	
45	45 Total Penta-Furans				0.963	10.107	29.275		0.000				0.0183	
46	46 Total Hexa-Furans				0.991	10.107	33.555		0.000				0.0209	
47	47 Total Hepta-Furans				0.999	10.107	37.835		0.000				0.0283	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-7.qld

Last Altered: Tuesday, December 01, 2020 11:40:27 AM Pacific Standard Time

Printed: Tuesday, December 01, 2020 11:43:07 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R2_7, Date: 26-Nov-2020, Time: 02:01:05, ID: 2002374-03 USMPDI-046SC-A-03-04-201029 16.27, Description: USMPDI-046SC-A-03-04-201029

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.28	2.841e3	3.254e3	1.724e2	1.985e2	0.87	NO	3.709e2	0.17237	0.17237	0.102
2	Total Tetra-Dioxins	23.17	5.511e3	4.056e3	2.967e2	3.719e2	0.80	NO	6.686e2	0.31072	0.31072	0.102
3	Total Tetra-Dioxins	23.98	3.042e4	4.048e4	2.314e3	2.902e3	0.80	NO	5.216e3	2.4243	2.4243	0.102
4	Total Tetra-Dioxins	25.43	6.722e3	4.889e3	3.587e2	4.096e2	0.88	NO	7.684e2	0.35711	0.35711	0.102

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.03	6.975e3	1.245e4	4.101e2	7.106e2	0.58	NO	1.121e3	0.91561	0.91561	0.292
2	Total Penta-Dioxins	30.05	5.058e3	8.622e3	2.571e2	4.788e2	0.54	NO	7.359e2	0.60121	0.60121	0.292

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.51	4.530e4	4.115e4	2.641e3	2.183e3	1.21	NO	4.825e3	3.7224	3.7224	0.178
2	Total Hexa-Dioxins	33.39	1.139e4	8.288e3	8.169e2	6.431e2	1.27	NO	1.460e3	1.1265	1.1265	0.178

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.01	3.849e4	4.368e4	3.019e3	2.966e3	1.02	NO	5.986e3	5.8126	5.8126	0.223
2	1,2,3,4,6,7,8-HpCDD	38.03	2.078e4	1.692e4	1.297e3	1.116e3	1.16	NO	2.413e3	2.3433	2.3433	0.223

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.35	3.289e3	6.477e3	3.397e2	5.150e2	0.66	NO	8.547e2	0.26432	0.26432	0.0477

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-7.qld

Last Altered: Tuesday, December 01, 2020 11:40:27 AM Pacific Standard Time

Printed: Tuesday, December 01, 2020 11:43:07 AM Pacific Standard Time

Name: 201125R2_7, Date: 26-Nov-2020, Time: 02:01:05, ID: 2002374-03 USMPDI-046SC-A-03-04-201029 16.27, Description: USMPDI-046SC-A-03-04-201029

Penta-Furans function 1

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

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

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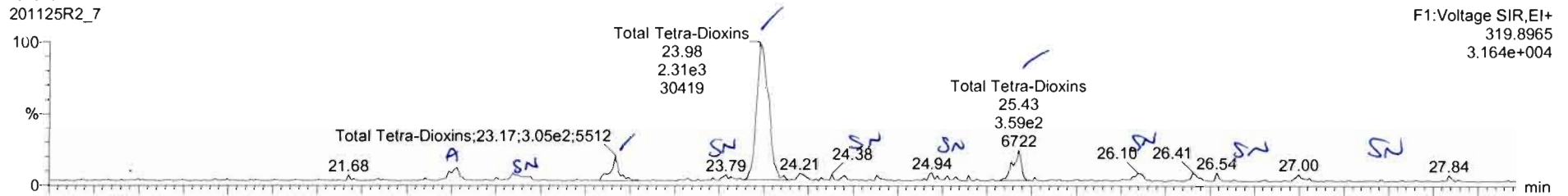
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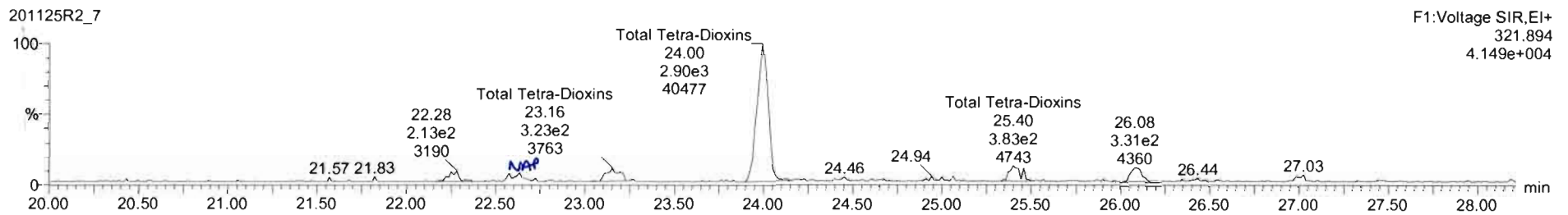
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2,3,7,8-TCDD

201125R2_7

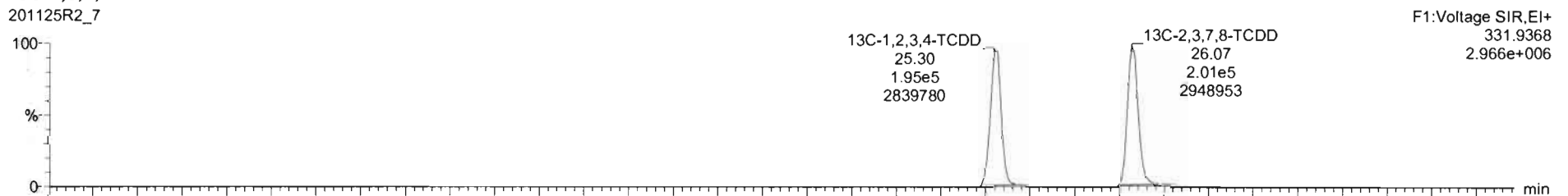


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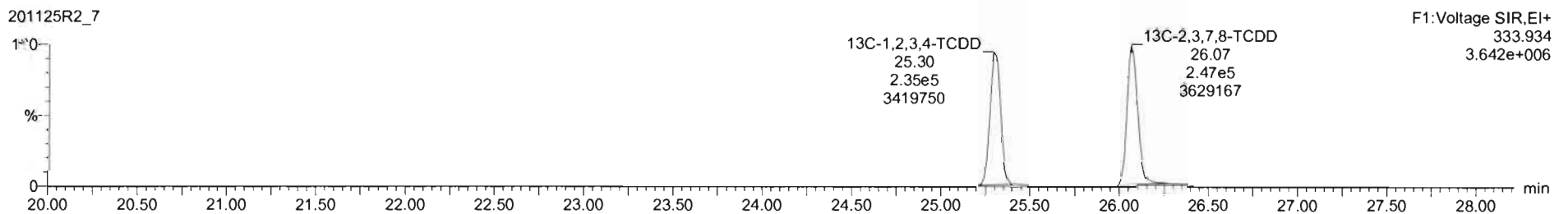


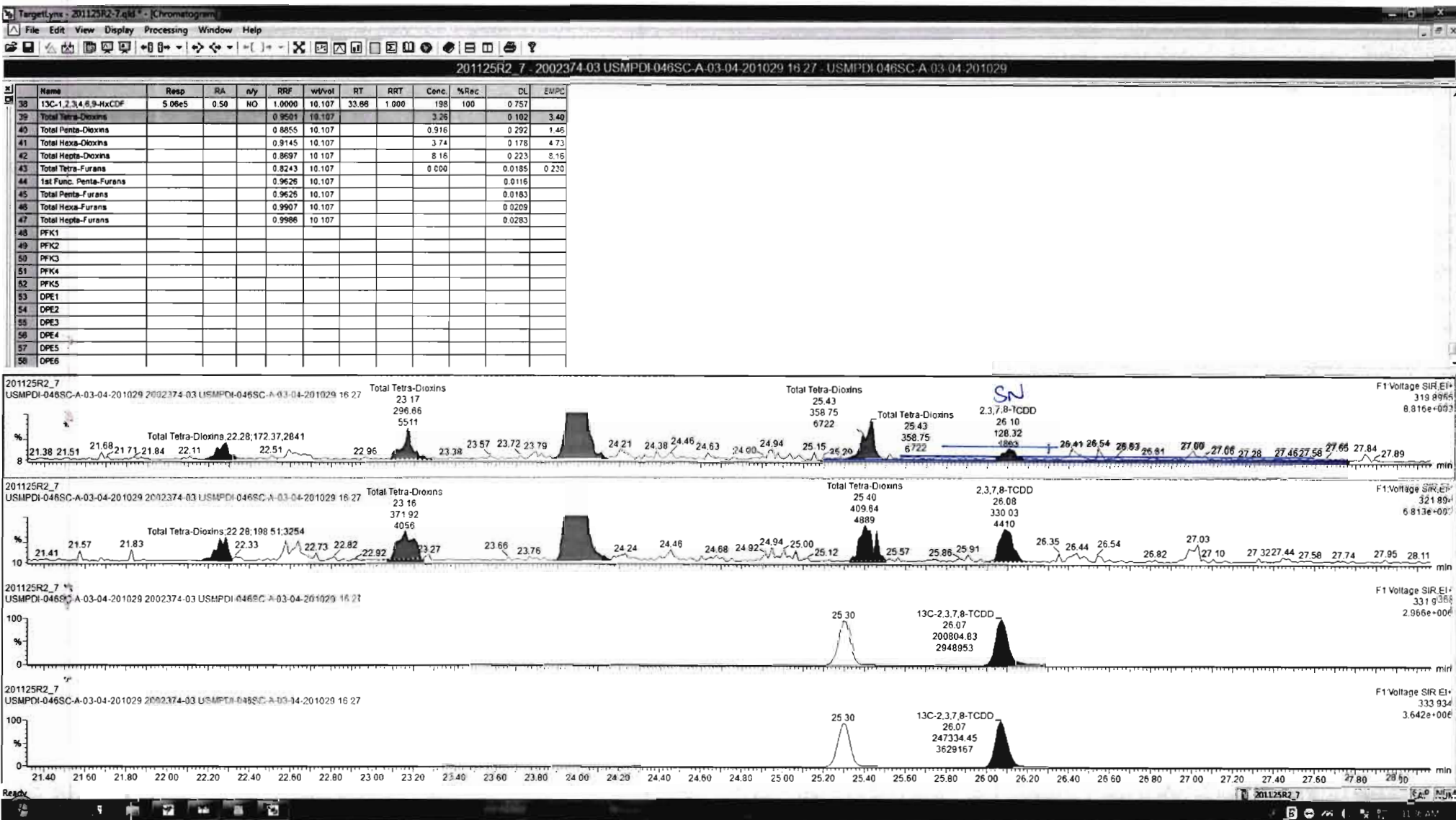
13C-2,3,7,8-TCDD

201125R2_7



201125R2_7





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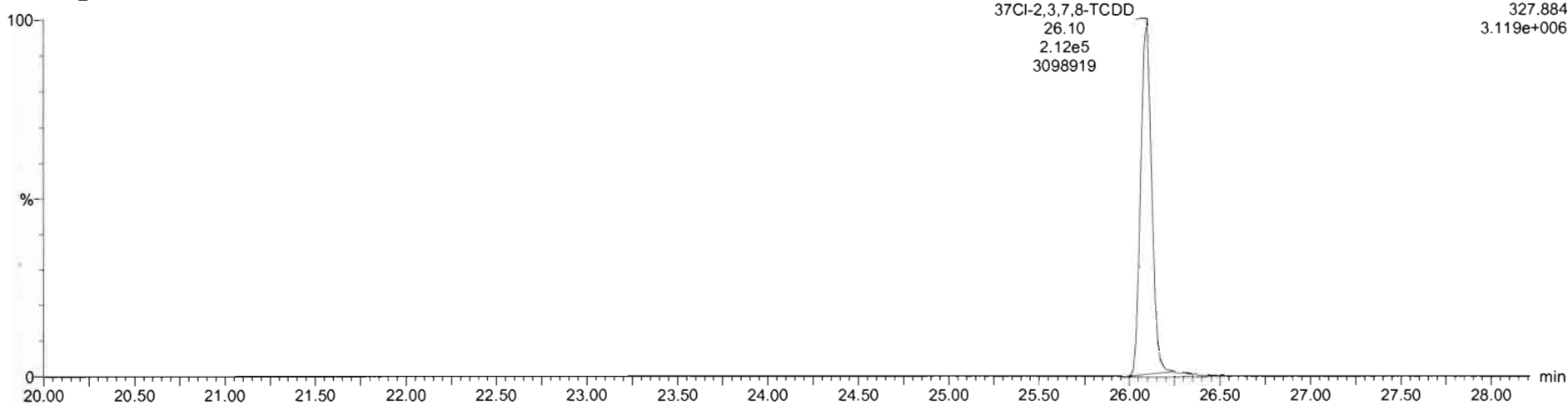
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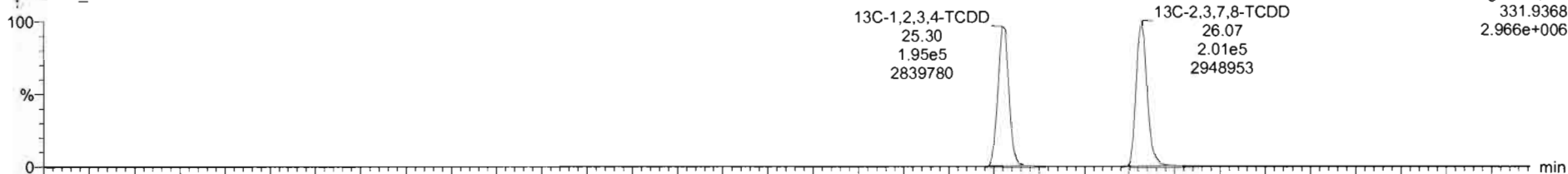
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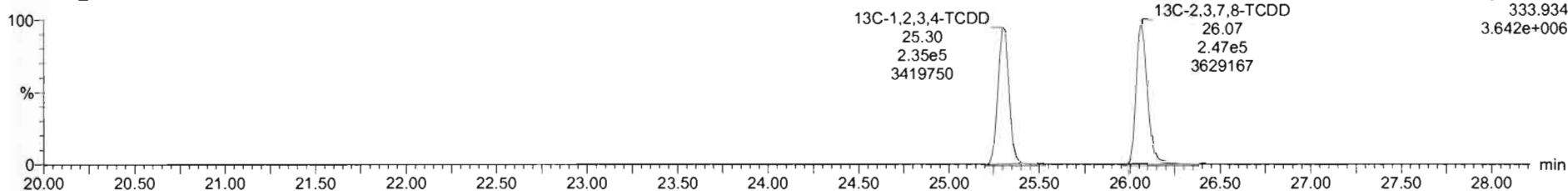


13C-1,2,3,4-TCDD

201125R2_7



201125R2_7



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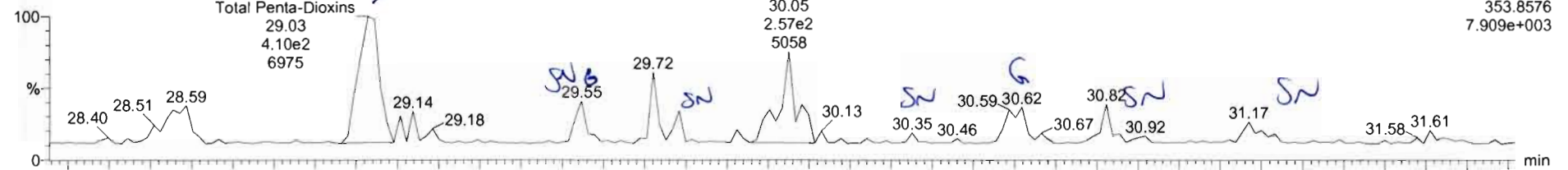
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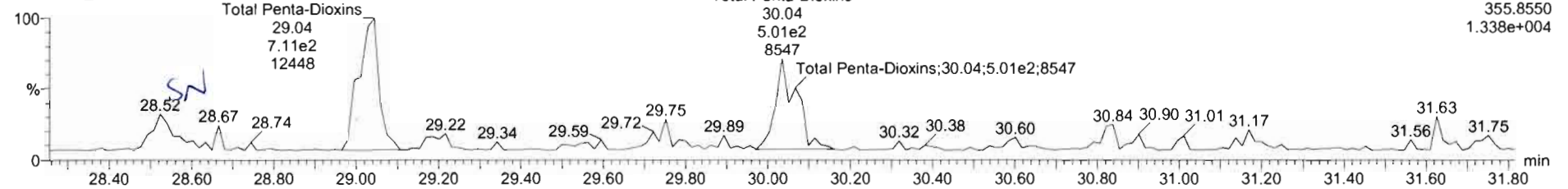
1,2,3,7,8-PeCDD

201125R2_7



F2: Voltage SIR, EI+
353.8576
7.909e+003

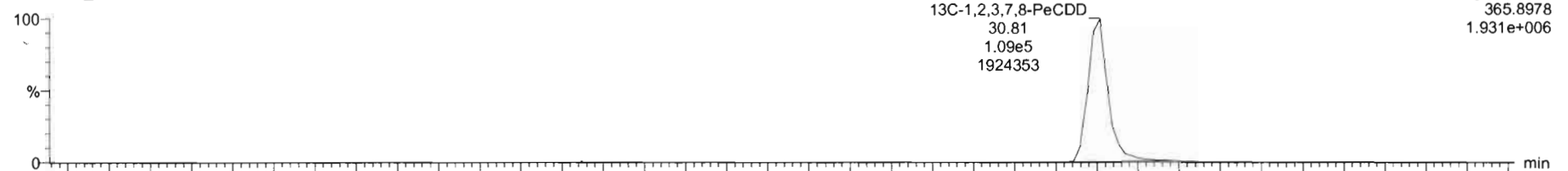
201125R2_7



F2: Voltage SIR, EI+
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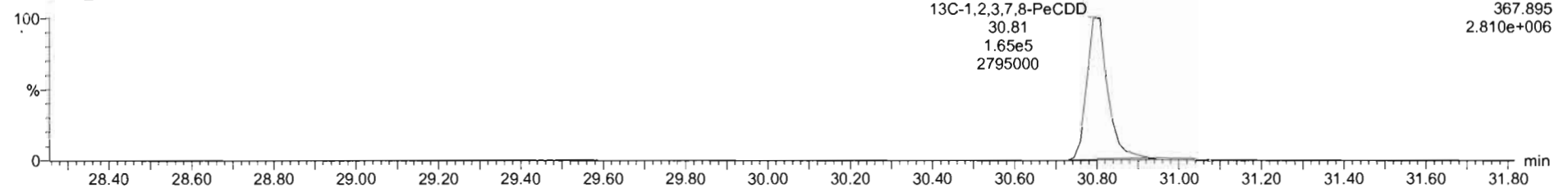
13C-1,2,3,7,8-PeCDD

201125R2_7



F2: Voltage SIR, EI+
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1.931e+006

201125R2_7



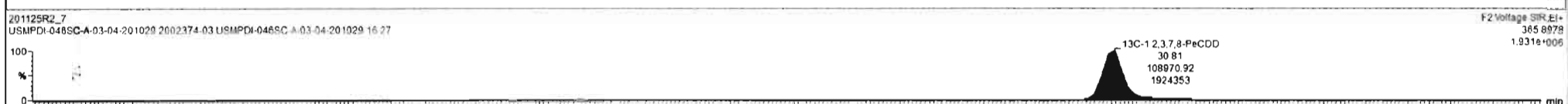
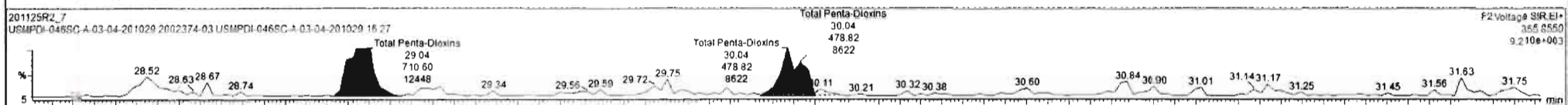
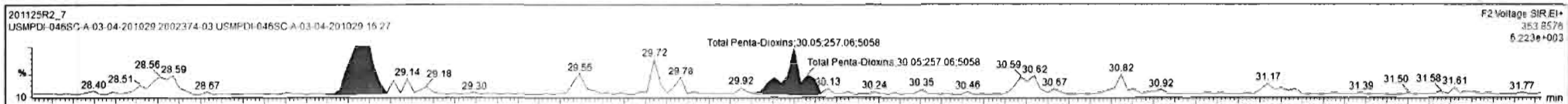
F2: Voltage SIR, EI+
367.895
2.810e+006

TargetLynx - 201125R2_7.d - Chromatogram

File Edit View Display Processing Window Help

201125R2_7 - 2002374-03 USMPDI-046SC-A-03-04-201029 16 27 - USMPDI-046SC-A-03-04-201029

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPD
38	13C-1,2,3,4,6,8-HxCDF	5.06e5	0.50	NO	1.0000	10.107	33.96	1.000	198	100	0.757
39	Total Tetra-Dioxins				0.9501	10.107			3.26	0.102	3.40
40	Total Penta-Dioxins				0.9555	10.107			1.52	0.292	1.52
41	Total Hexa-Dioxins				0.9145	10.107			3.74	0.178	4.73
42	Total Hepta-Dioxins				0.9697	10.107			8.16	0.222	8.16
43	Total Tetra-Furans				0.8243	10.107		0.000	0.0185	0.230	
44	1st Func. Penta-Furans				0.9626	10.107			0.0116		
45	Total Penta-Furans				0.9626	10.107			0.0183		
46	Total Hexa-Furans				0.9907	10.107			0.0209		
47	Total Hepta-Furans				0.9996	10.107			0.0283		
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										

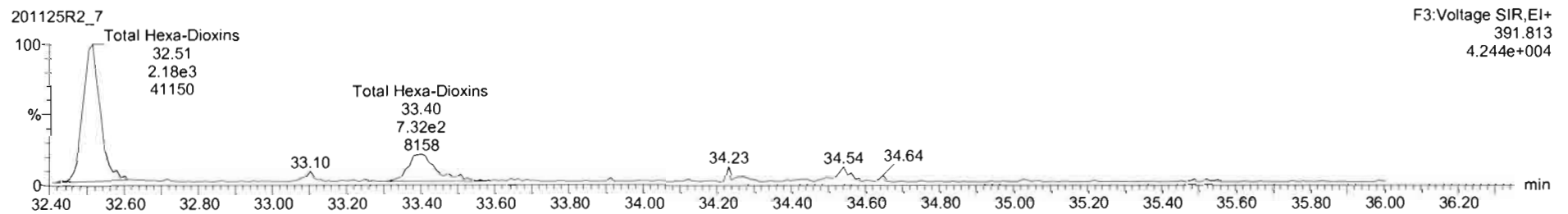
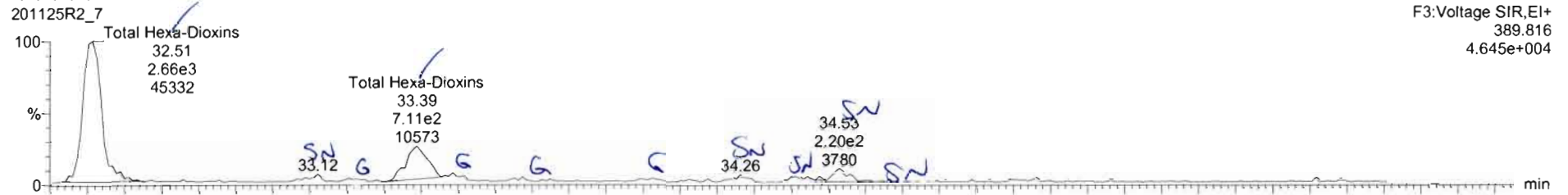


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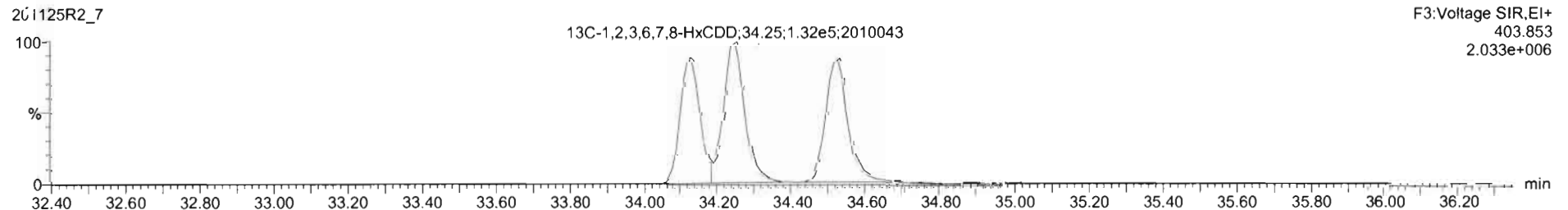
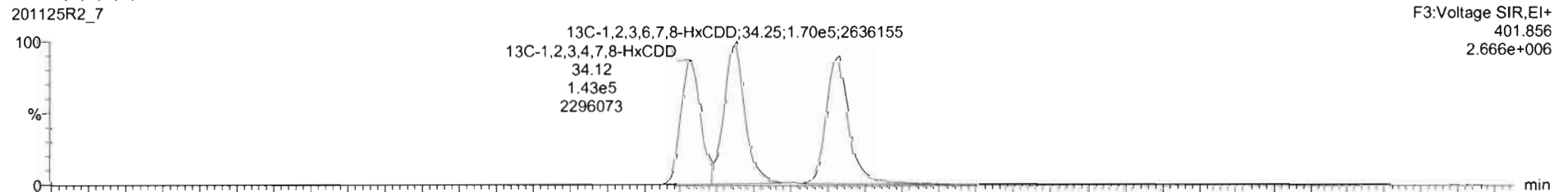
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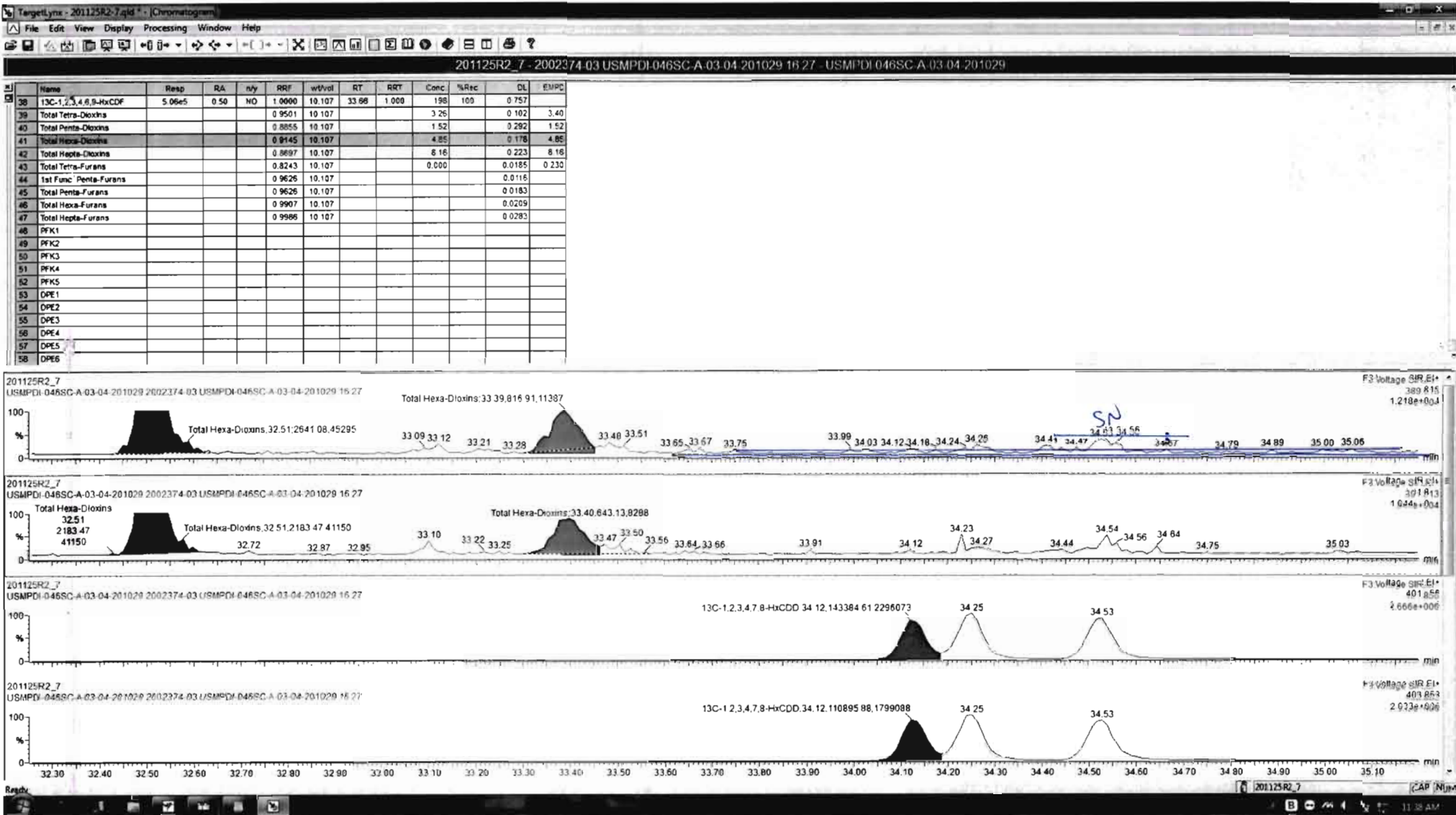
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1,2,3,4,7,8-HxCDD



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





Dataset: Untitled

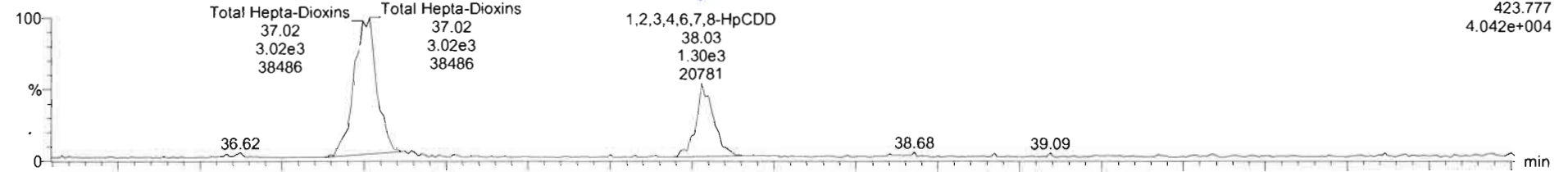
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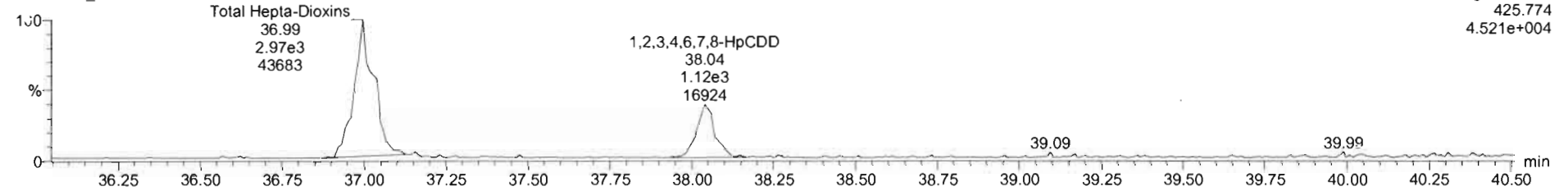
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1,2,3,4,6,7,8-HpCDD

201125R2_7

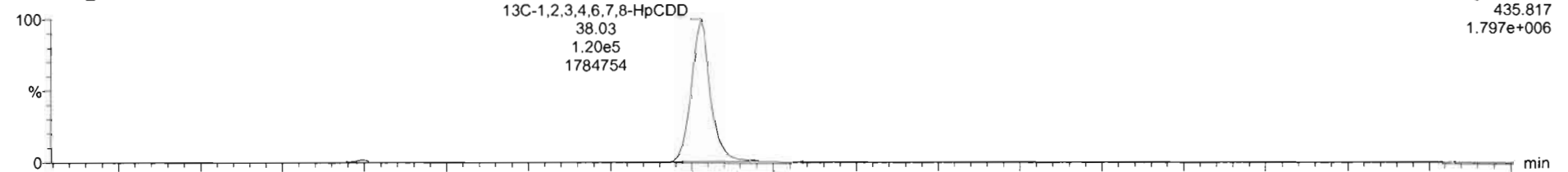


201125R2_7

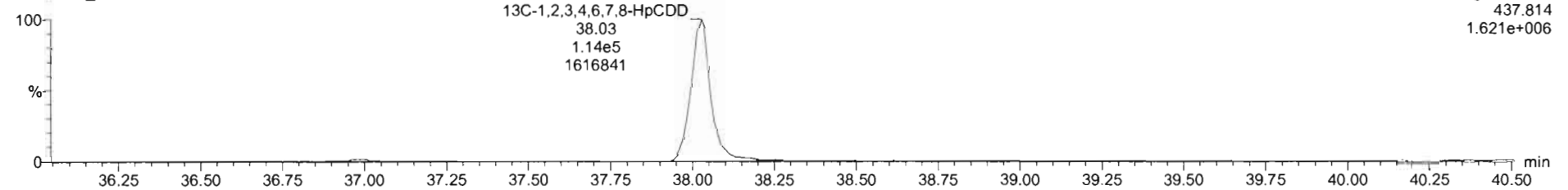


13C-1,2,3,4,6,7,8-HpCDD

201125R2_7



201125R2_7



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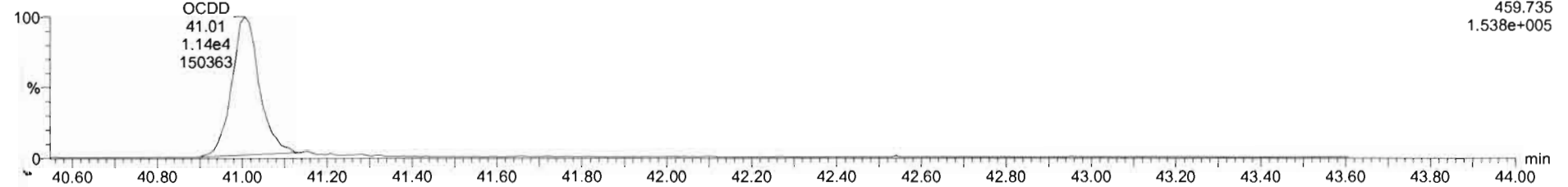
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OCDD

201125R2_7

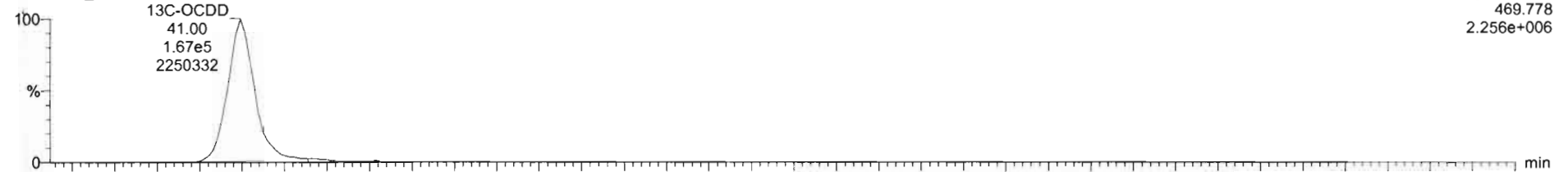


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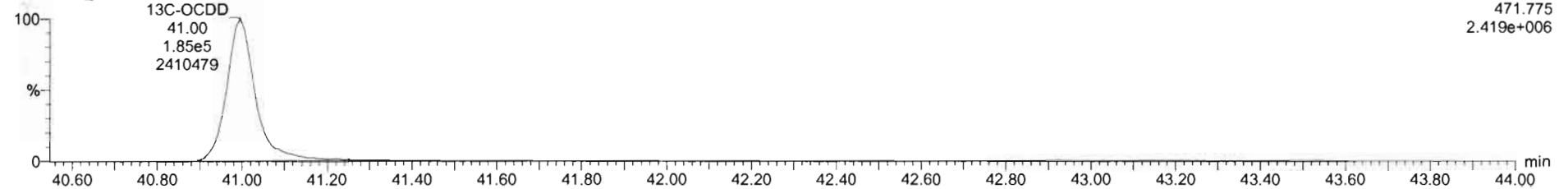


13C-OCDD

201125R2_7



201125R2_7

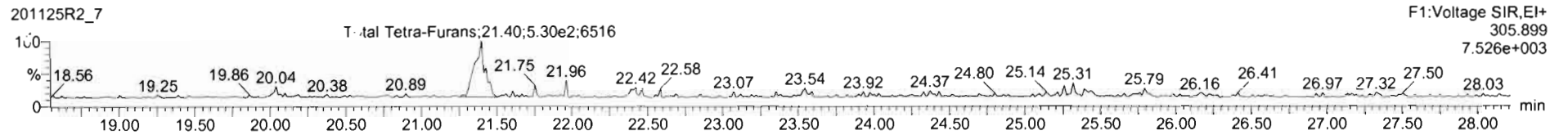
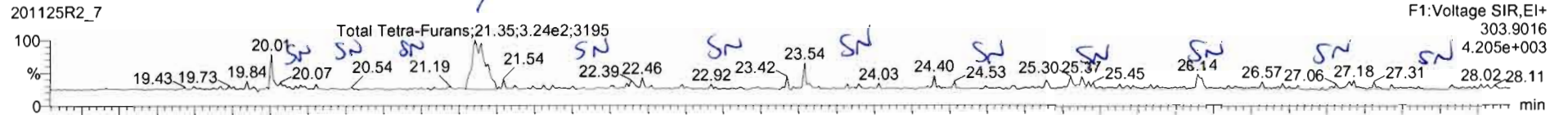


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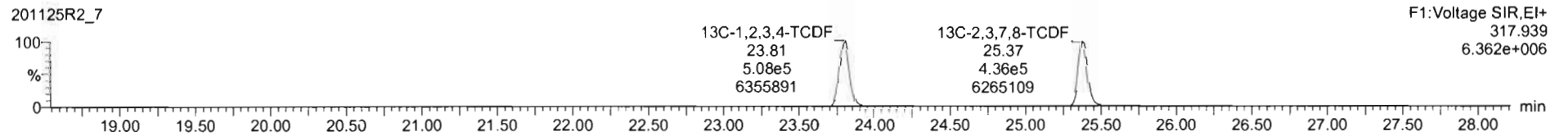
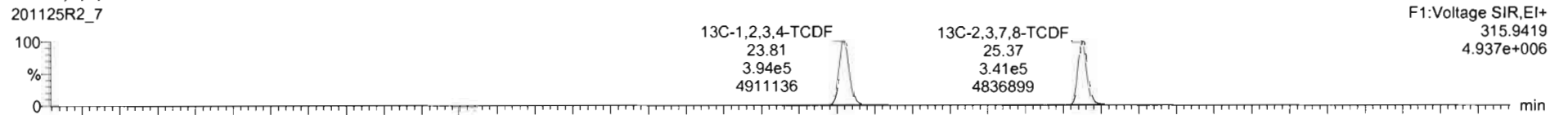
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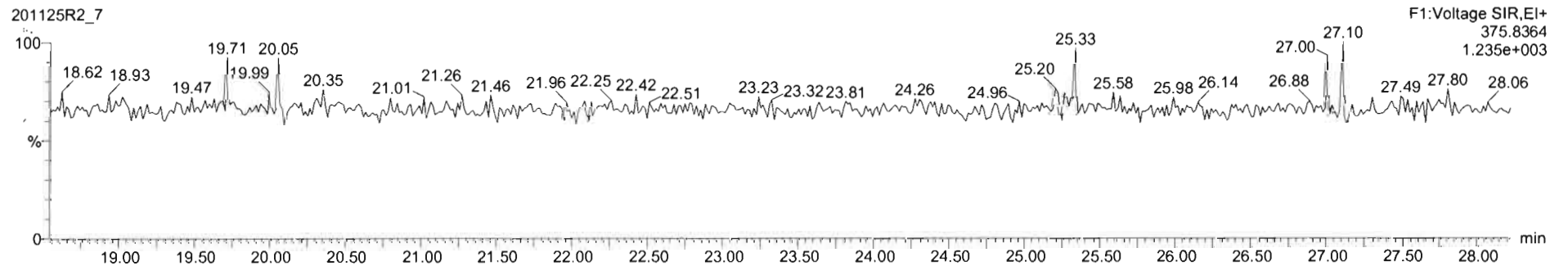
2,3,7,8-TCDF



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



DPE1

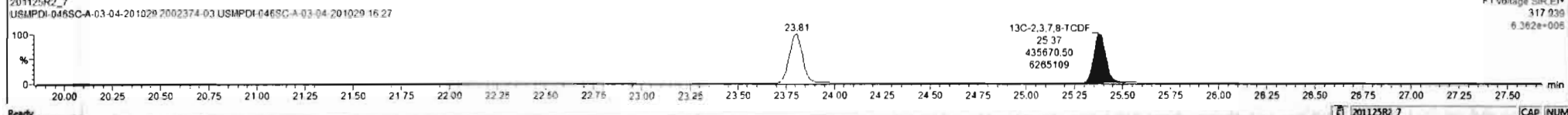
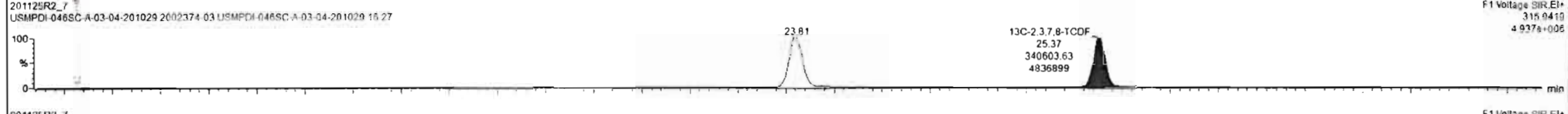
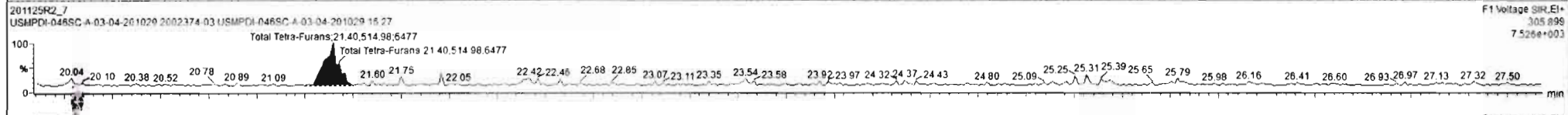
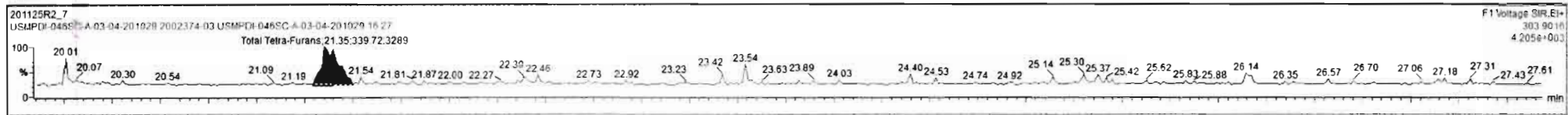


TargetLynx - 201125R2-7.qld - Chromatogram

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201125R2_7 - 2002374.03 USMPDI-046SC-A-03-04-201029 16 27 - USMPDI-046SC-A-03-04-201029

Name	Retp	RA	n/y	RRF	wt/yol	RT	RRT	Conc.	%Rec	DL	EMDC
38	13C-1,2,3,4,6,9-HxCDF	5.06e5	0.50	NO	1.0000	10.107	33.66	1.009	198	100	0.757
39	Total Tetra-Dioxins				0.9501	10.107			3.26		0.102 3.40
40	Total Penta-Dioxins				0.8855	10.107			1.52		0.292 1.52
41	Total Hexa-Dioxins				0.9145	10.107			4.85		0.178 4.85
42	Total Hepta-Dioxins				0.8697	10.107			8.16		0.223 8.16
43	Total Tetra-Furans				0.8243	10.107			0.264		0.0477 0.264
44	1st Func. Penta-Furans				0.9626	10.107					0.0116
45	Total Penta-Furans				0.9626	10.107					0.0183
46	Total Hexa-Furans				0.9907	10.107					0.0209
47	Total Hepta-Furans				0.9986	10.107					0.0283
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
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58	DPE6										



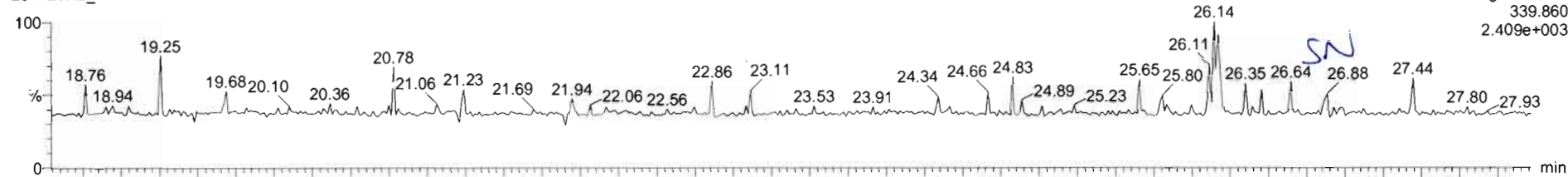
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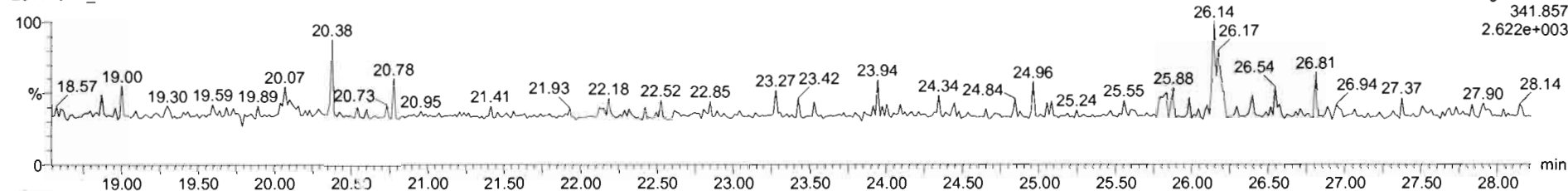
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1st Func. Penta-Furans

201125R2_7

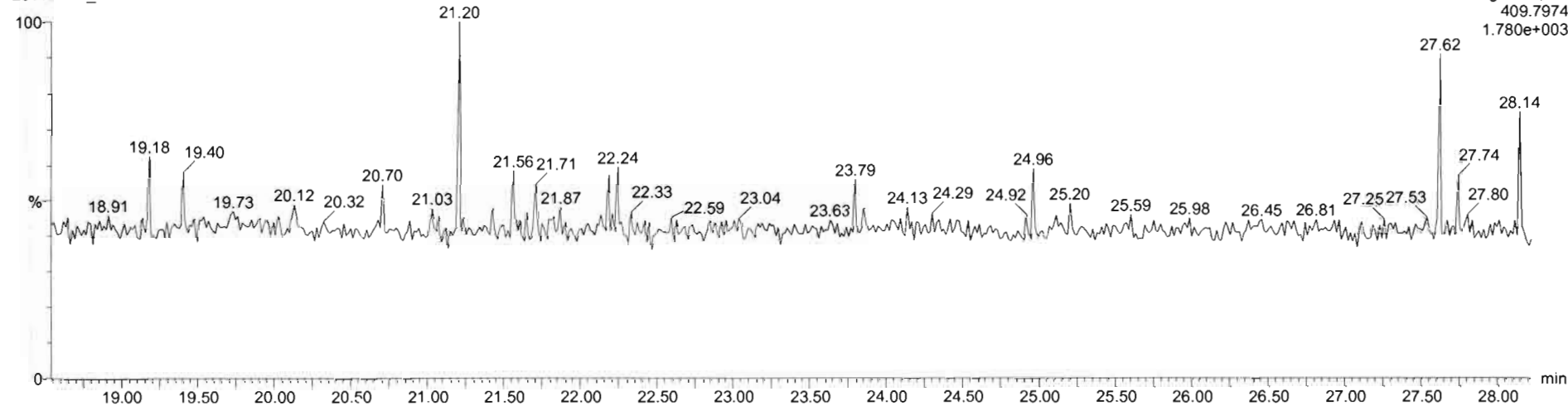


201125R2_7



DPE6

201125R2_7

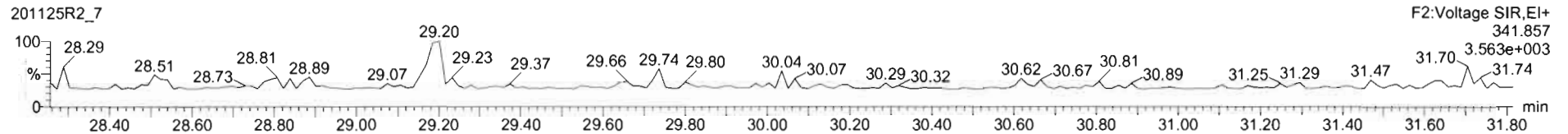
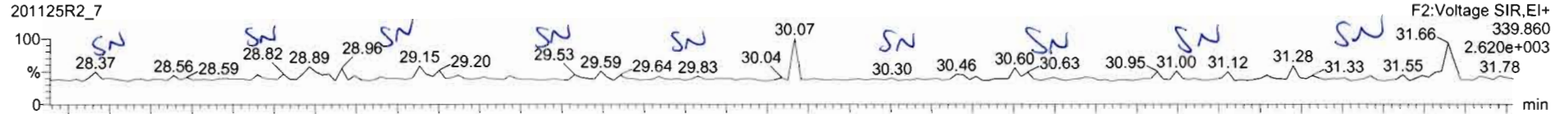


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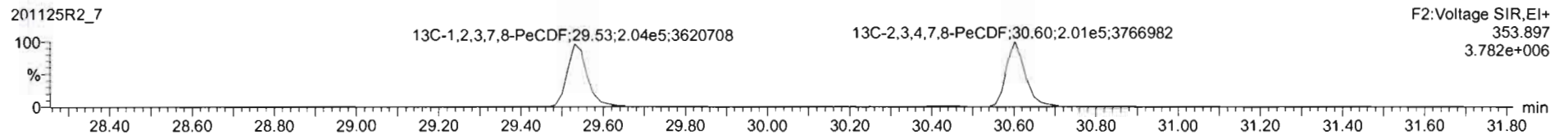
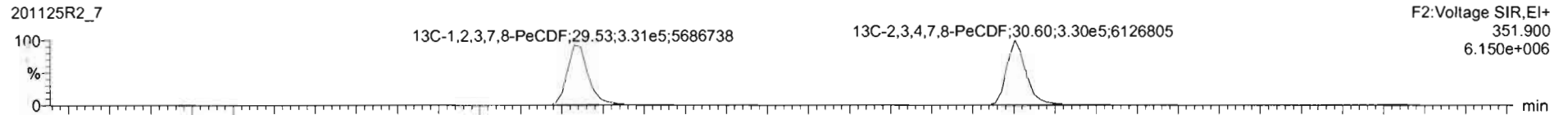
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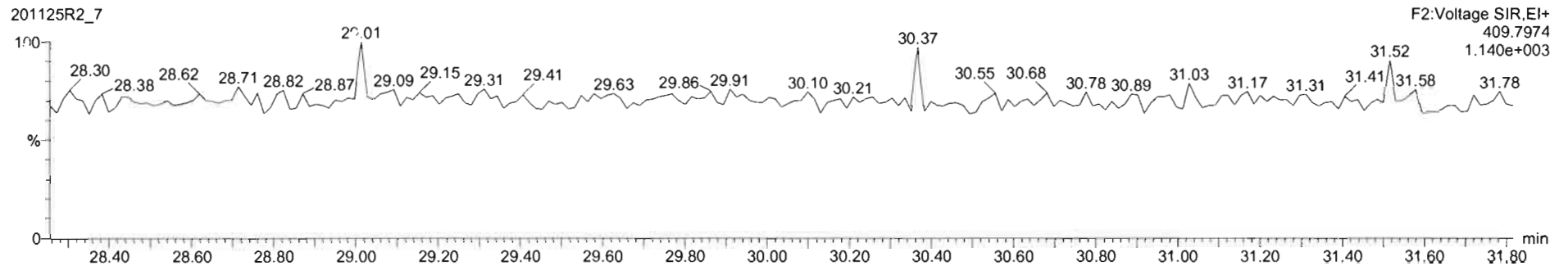
1,2,3,7,8-PeCDF



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



DPE2

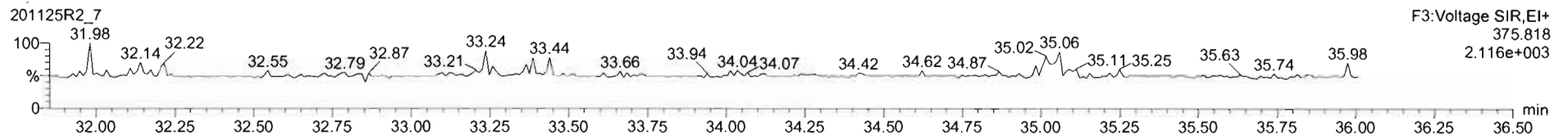
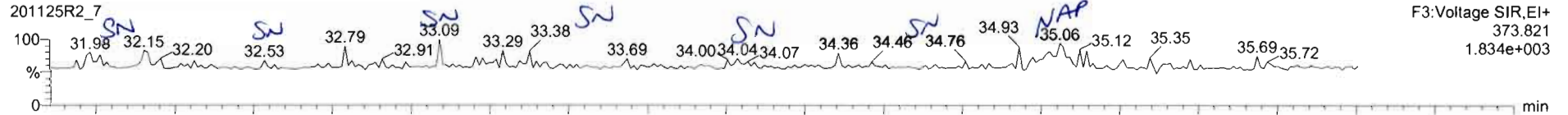


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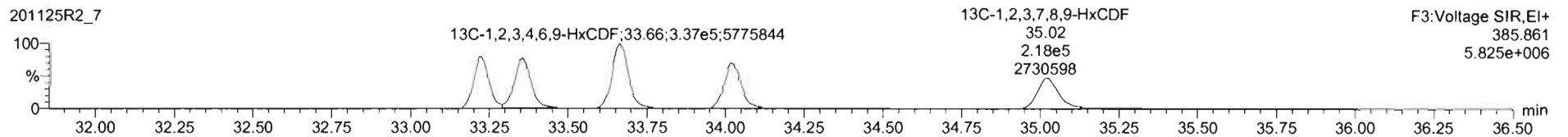
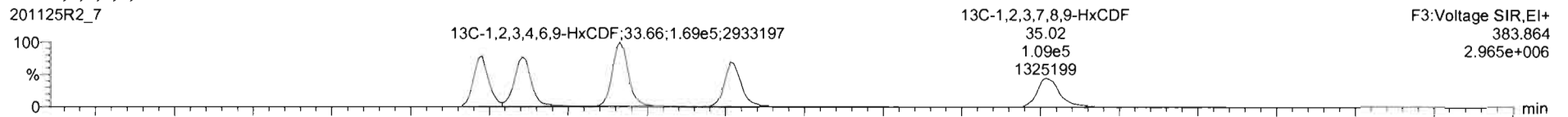
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Name: 201125R2_7, Date: 26-Nov-2020, Time: 02:01:05, ID: 2002374-03 USMPDI-046SC-A-03-04-201029 16.27, Description: USMPDI-046SC-A-03-04-201029

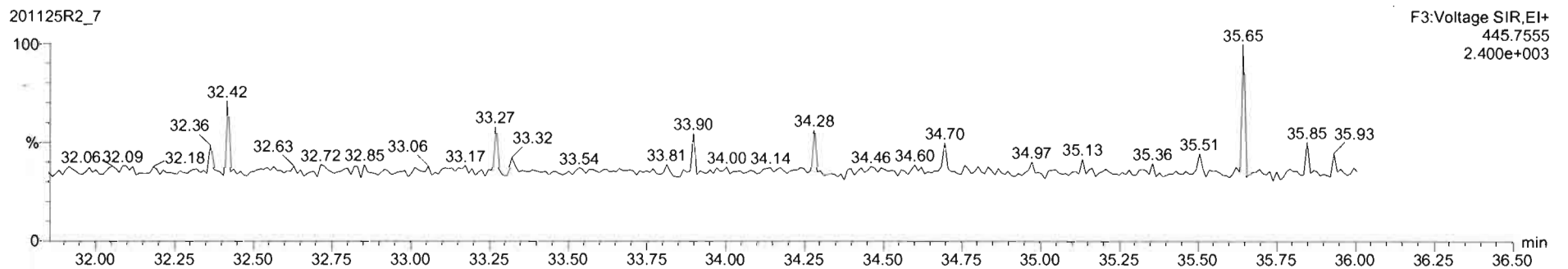
1,2,3,4,7,8-HxCDF



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



DPE3

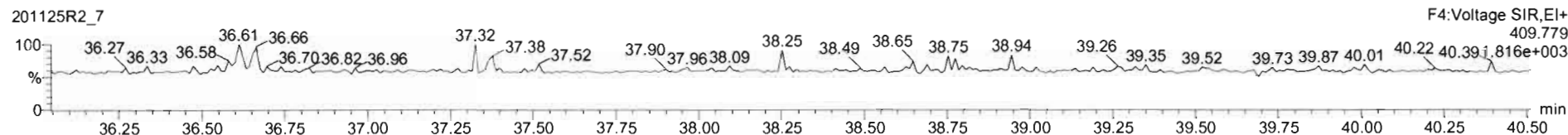
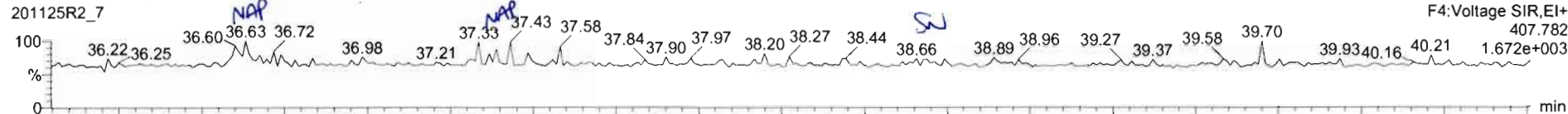


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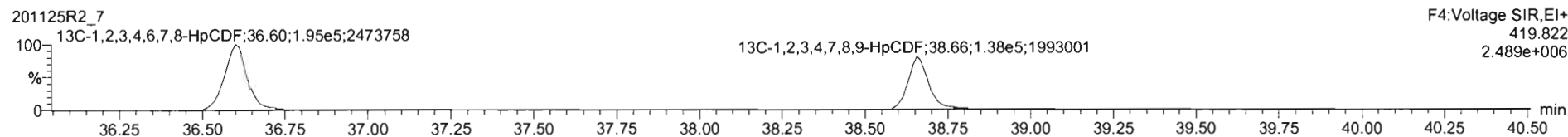
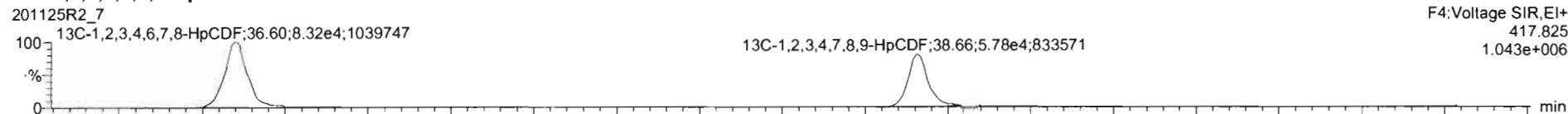
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Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_7, Date: 26-Nov-2020, Time: 02:01:05, ID: 2002374-03 USMPDI-046SC-A-03-04-201029 16.27, Description: USMPDI-046SC-A-03-04-201029

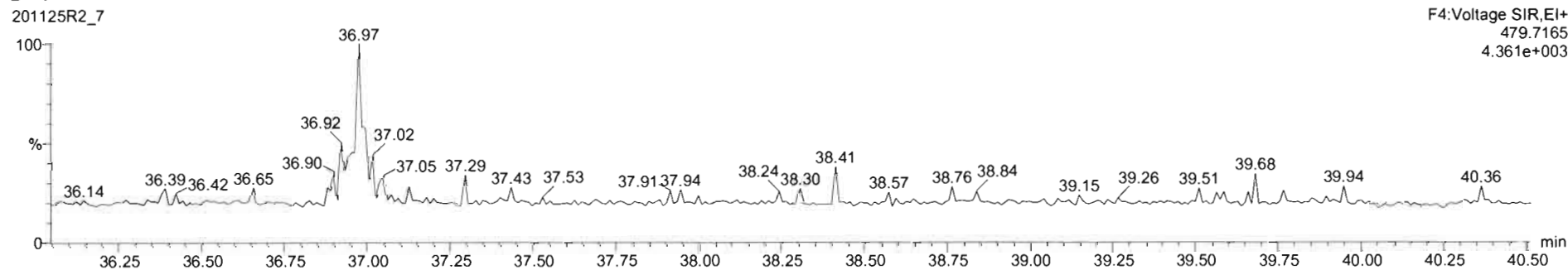
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13C-1,2,3,4,6,7,8-HpCDF



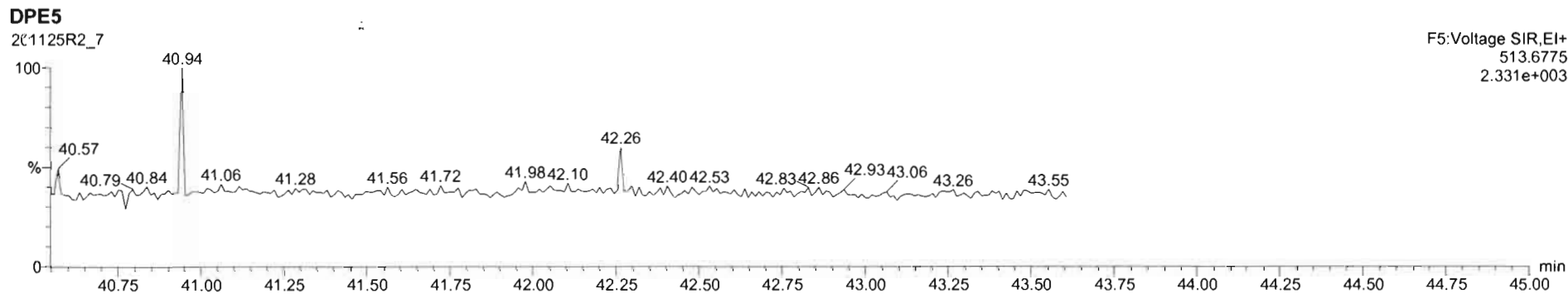
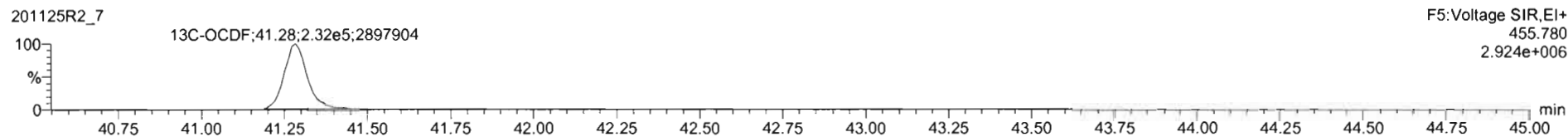
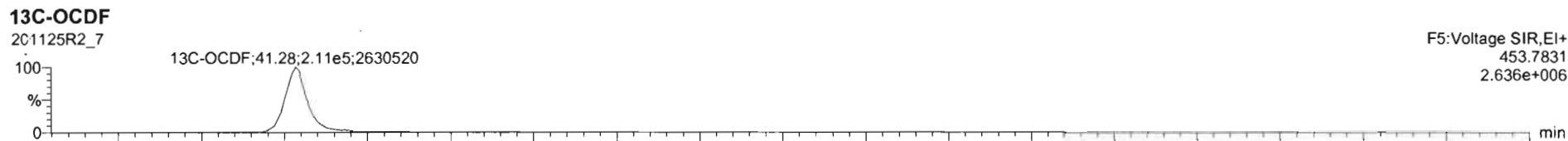
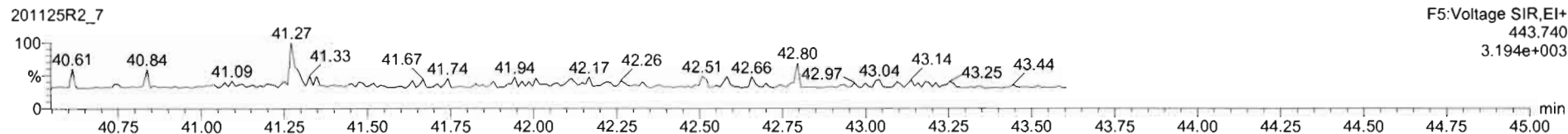
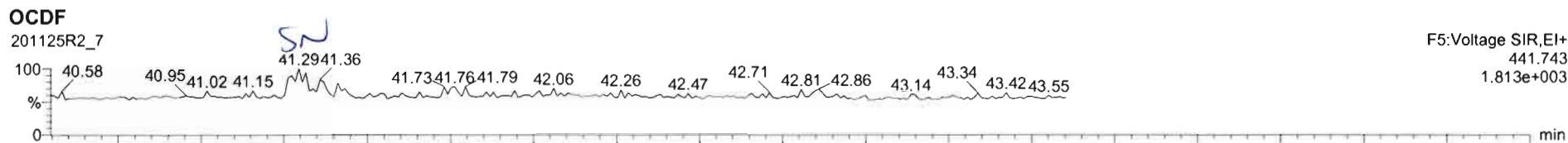
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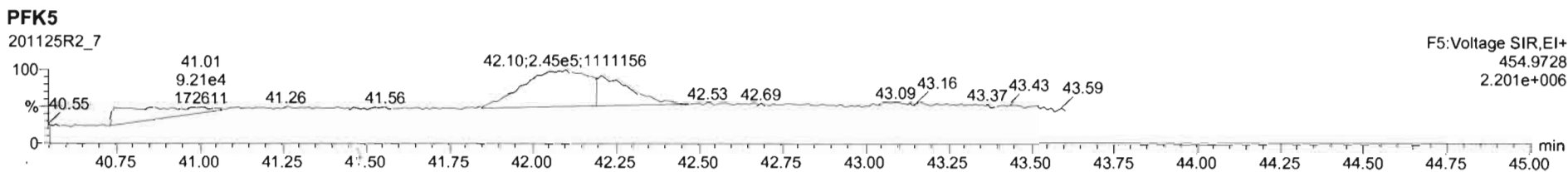
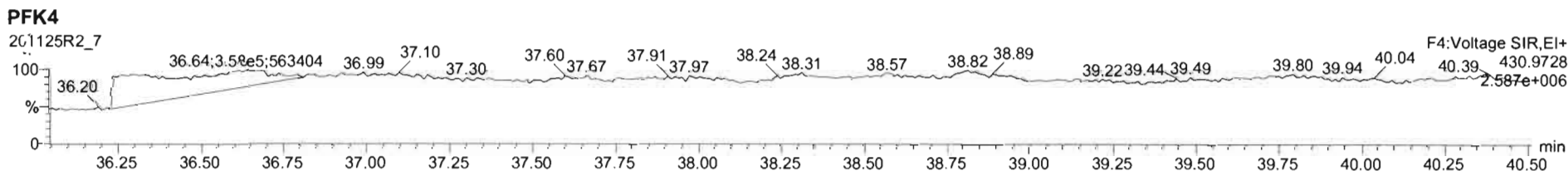
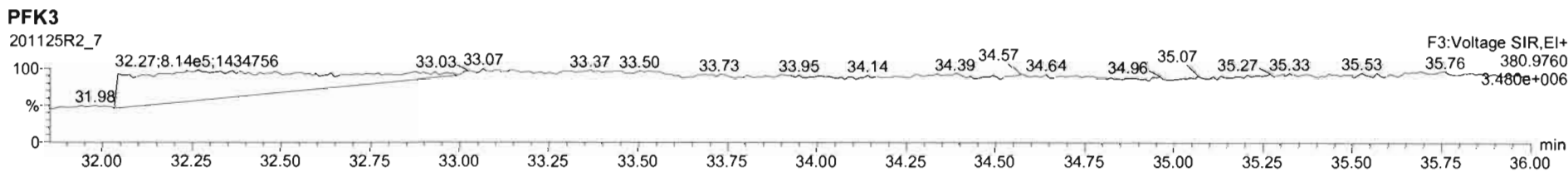
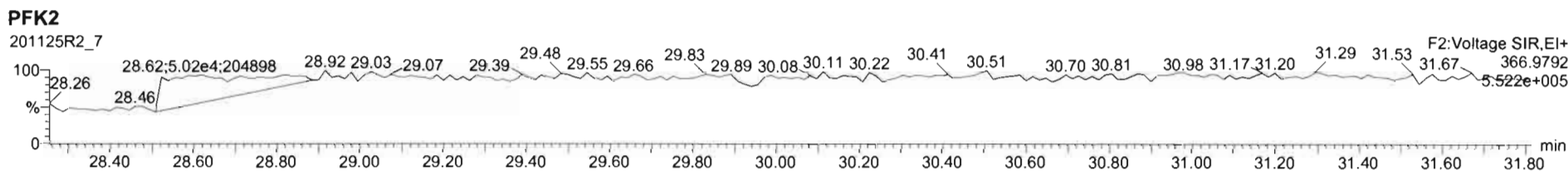
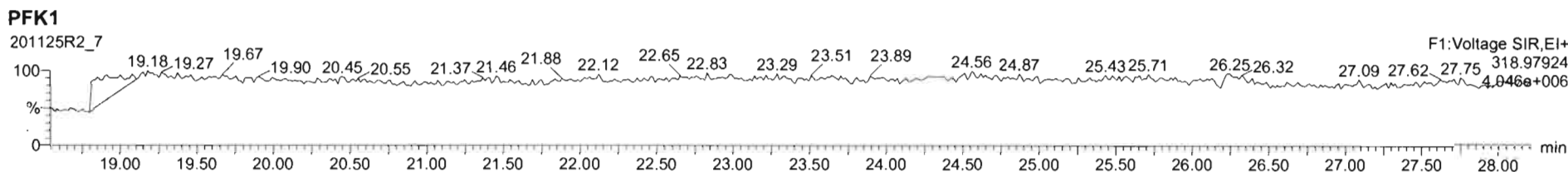
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Dataset: U:\VG12.PRO\Results\201125R2\201125R2-8.qld

Last Altered: Tuesday, December 01, 2020 11:54:28 AM Pacific Standard Time
Printed: Tuesday, December 01, 2020 11:54:45 AM Pacific Standard Time

GRB 12/01/2020

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CT 12/04/2020

Name: 201125R2_8, Date: 26-Nov-2020, Time: 02:45:59, ID: 2002374-04 USMPDI-046SC-A-04-05-201029 11.58, Description: USMPDI-046SC-A-04-05-201029

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1	1 2,3,7,8-TCDD			NO	0.950	10.071	26.112		1.001				0.109	
2	2 1,2,3,7,8-PeCDD			NO	0.885	10.071	30.832		1.000				0.219	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.071	34.153		1.000				0.103	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.071	34.271		1.000				0.106	
5	5 1,2,3,7,8,9-HxCDD			NO	0.934	10.071	34.547		1.000				0.116	
6	6 1,2,3,4,6,7,8-HpCDD	1.51e3	1.00	NO	0.870	10.071	38.038	38.06	1.000	1.001	1.5264		0.178	1.53
7	7 OCDD	1.11e4	0.91	NO	0.872	10.071	41.006	41.03	1.000	1.001	14.911		0.317	14.9
8	8 2,3,7,8-TCDF			NO	0.824	10.071	25.411		1.000				0.0363	
9	9 1,2,3,7,8-PeCDF			NO	0.963	10.071	29.572		1.000				0.0353	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.071	30.618		1.000				0.0307	
11	11 1,2,3,4,7,8-HxCDF			NO	0.953	10.071	33.238		1.000				0.0537	
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.071	33.376		1.000				0.0546	
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	10.071	34.040		1.000				0.0591	
14	14 1,2,3,7,8,9-HxCDF			NO	0.951	10.071	35.038		1.000				0.100	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.999	10.071	36.625		1.000				0.0588	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	10.071	38.666		1.000				0.0671	
17	17 OCDF	2.93e2	0.86	NO	0.868	10.071	41.301	41.33	1.000	1.001	0.31485		0.145	0.315
18	18 13C-2,3,7,8-TCDD	4.52e5	0.78	NO	1.11	10.071	26.073	26.08	1.030	1.030	181.52	91.4	0.333	
19	19 13C-1,2,3,7,8-PeCDD	2.78e5	0.66	NO	0.859	10.071	30.792	30.82	1.216	1.218	144.21	72.6	0.511	
20	20 13C-1,2,3,4,7,8-HxCDD	2.57e5	1.30	NO	0.700	10.071	34.153	34.14	1.014	1.014	145.14	73.1	0.761	
21	21 13C-1,2,3,6,7,8-HxCDD	3.14e5	1.37	NO	0.833	10.071	34.291	34.26	1.018	1.017	148.87	75.0	0.639	
22	22 13C-1,2,3,7,8,9-HxCDD	2.97e5	1.37	NO	0.762	10.071	34.534	34.54	1.025	1.025	153.84	77.5	0.699	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.25e5	1.09	NO	0.650	10.071	38.020	38.04	1.129	1.129	136.90	68.9	0.760	
24	24 13C-OCDD	3.38e5	0.90	NO	0.539	10.071	40.988	41.01	1.217	1.217	247.49	62.3	0.711	
25	25 13C-2,3,7,8-TCDF	7.81e5	0.77	NO	0.981	10.071	25.395	25.40	1.003	1.004	172.73	87.0	0.428	
26	26 13C-1,2,3,7,8-PeCDF	5.64e5	1.63	NO	0.792	10.071	29.524	29.56	1.166	1.168	154.49	77.8	0.847	
27	27 13C-2,3,4,7,8-PeCDF	5.36e5	1.63	NO	0.778	10.071	30.582	30.62	1.208	1.210	149.64	75.3	0.862	
28	28 13C-1,2,3,4,7,8-HxCDF	3.91e5	0.50	NO	0.954	10.071	33.244	33.24	0.987	0.987	161.73	81.4	0.704	
29	29 13C-1,2,3,6,7,8-HxCDF	4.04e5	0.51	NO	1.01	10.071	33.375	33.38	0.991	0.991	158.74	79.9	0.668	
30	30 13C-2,3,4,6,7,8-HxCDF	3.82e5	0.51	NO	0.921	10.071	34.045	34.04	1.011	1.010	163.97	82.6	0.729	
31	31 13C-1,2,3,7,8,9-HxCDF	3.14e5	0.51	NO	0.803	10.071	35.043	35.04	1.040	1.040	154.51	77.8	0.836	

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-8.qld

Last Altered: Tuesday, December 01, 2020 11:54:28 AM Pacific Standard Time
Printed: Tuesday, December 01, 2020 11:54:45 AM Pacific Standard Time

Name: 201125R2_8, Date: 26-Nov-2020, Time: 02:45:59, ID: 2002374-04 USMPDI-046SC-A-04-05-201029 11.58, Description: USMPDI-046SC-A-04-05-201029

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	2.71e5	0.42	NO	0.735	10.071	36.612	36.62	1.087	1.087	145.30	73.2	0.574	
33	13C-1,2,3,4,7,8,9-HpCDF	1.93e5	0.42	NO	0.568	10.071	38.650	38.67	1.147	1.148	134.27	67.6	0.744	
34	13C-OCDF	4.26e5	0.85	NO	0.629	10.071	41.271	41.29	1.225	1.226	267.66	67.4	0.608	
35	37Cl-2,3,7,8-TCDD	2.14e5			1.09	10.071	26.073	26.11	1.030	1.032	87.552	110	0.122	
36	13C-1,2,3,4-TCDD	4.46e5	0.84	NO	1.00	10.071	25.370	25.31	1.000	1.000	198.60	100	0.369	
37	13C-1,2,3,4-TCDF	9.15e5	0.80	NO	1.00	10.071	23.870	23.81	1.000	1.000	198.60	100	0.420	
38	13C-1,2,3,4,6,9-HxCDF	5.03e5	0.50	NO	1.00	10.071	33.710	33.69	1.000	1.000	198.60	100	0.672	
39	Total Tetra-Dioxins				0.950	10.071	24.620		0.000				0.0456	
40	Total Penta-Dioxins				0.885	10.071	29.960		0.000				0.0590	
41	Total Hexa-Dioxins				0.915	10.071	33.635		0.000		1.2896		0.113	1.29
42	Total Hepta-Dioxins				0.870	10.071	37.640		0.000		3.8292		0.178	3.83
43	Total Tetra-Furans				0.824	10.071	23.610		0.000				0.0174	
44	1st Func. Penta-Furans				0.963	10.071	26.930		0.000				0.00904	
45	Total Penta-Furans				0.963	10.071	29.275		0.000				0.0121	
46	Total Hexa-Furans				0.991	10.071	33.555		0.000				0.0315	
47	Total Hepta-Furans				0.999	10.071	37.835		0.000				0.0353	

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Dataset: U:\VG12.PRO\Results\201125R2\201125R2-8.qld

Last Altered: Tuesday, December 01, 2020 11:54:28 AM Pacific Standard Time

Printed: Tuesday, December 01, 2020 11:54:45 AM Pacific Standard Time

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Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.55	1.080e4	1.120e4	5.643e2	5.133e2	1.10	NO	1.078e3	0.80900	0.80900	0.113
2	Total Hexa-Dioxins	33.40	5.445e3	6.527e3	3.375e2	3.027e2	1.11	NO	6.401e2	0.48058	0.48058	0.113

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.03	1.488e4	1.653e4	1.194e3	1.077e3	1.11	NO	2.271e3	2.3028	2.3028	0.178
2	1,2,3,4,6,7,8-HpCDD	38.06	1.102e4	1.327e4	7.534e2	7.517e2	1.00	NO	1.505e3	1.5264	1.5264	0.178

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-8.qld

Last Altered: Tuesday, December 01, 2020 11:54:28 AM Pacific Standard Time

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Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

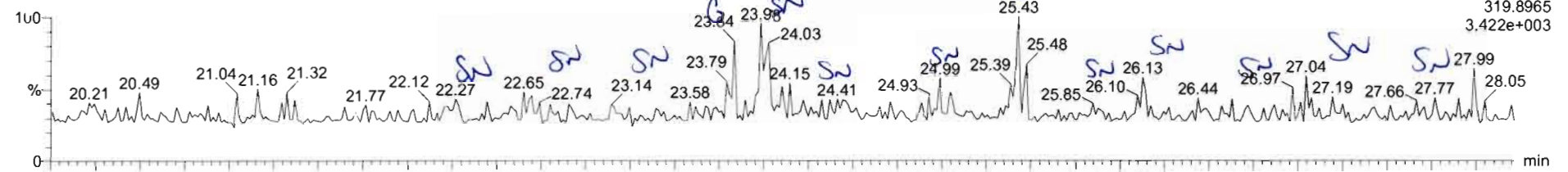
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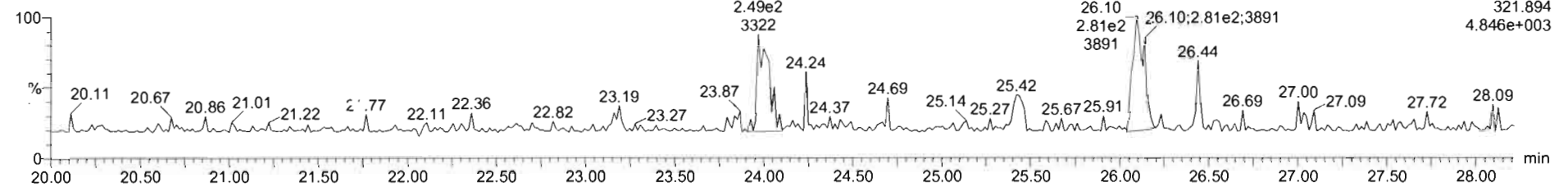
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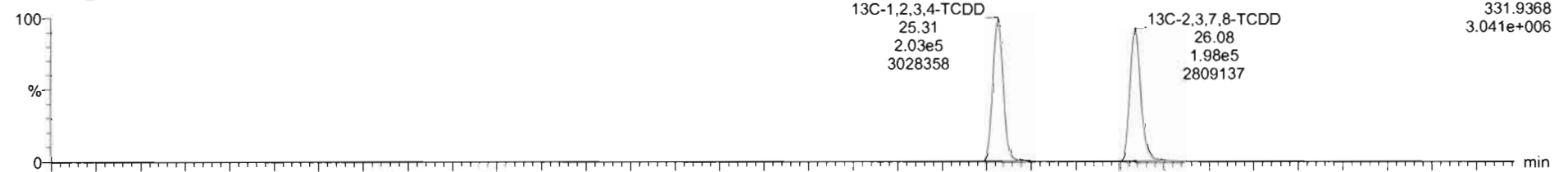


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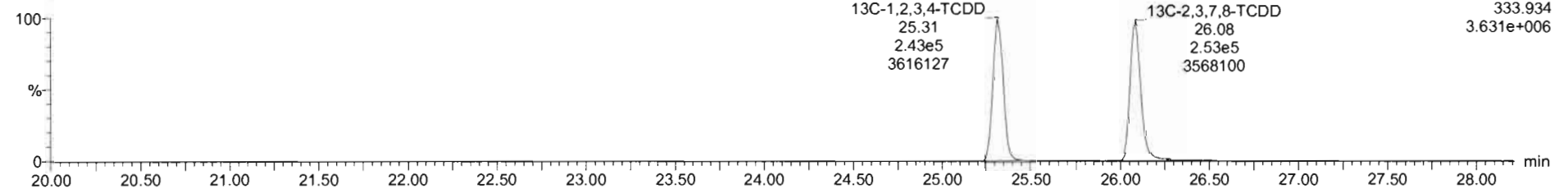


13C-2,3,7,8-TCDD

201125R2_8



201125R2_8



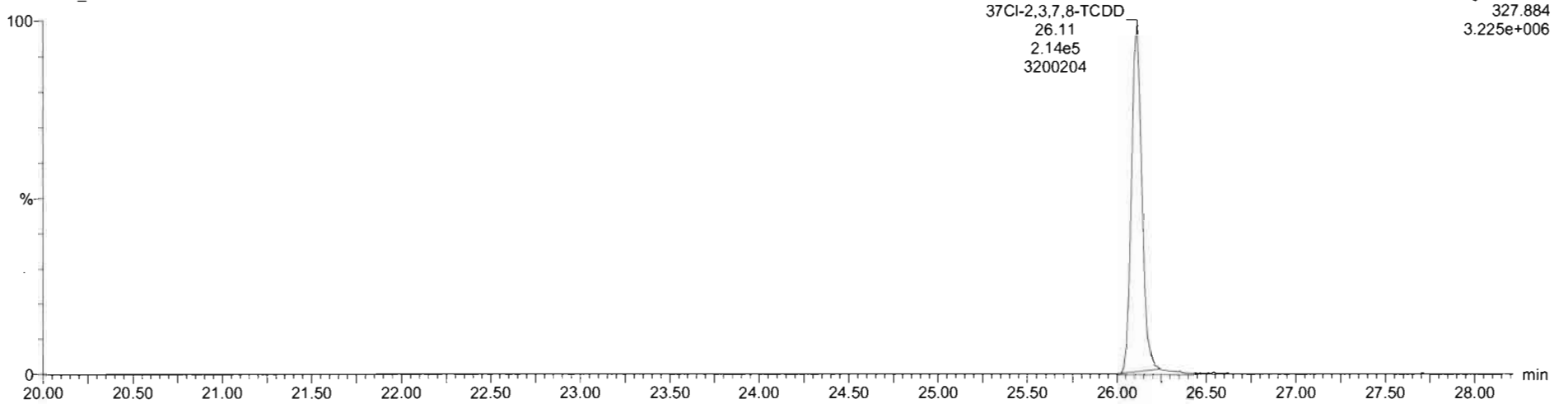
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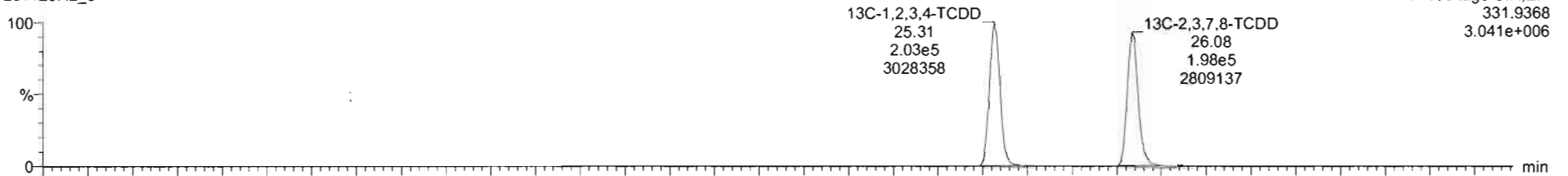
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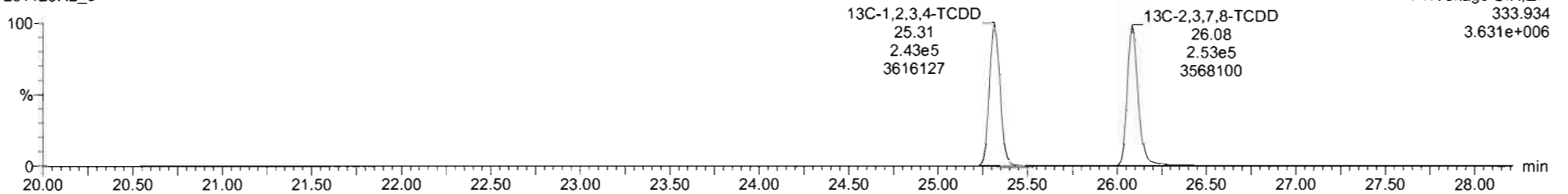


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201125R2_8



201125R2_8



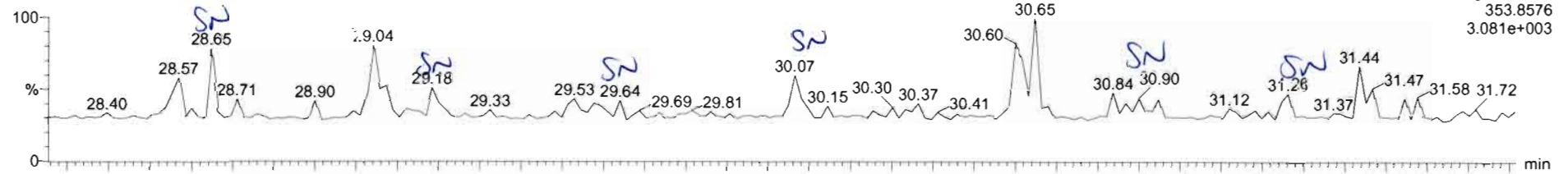
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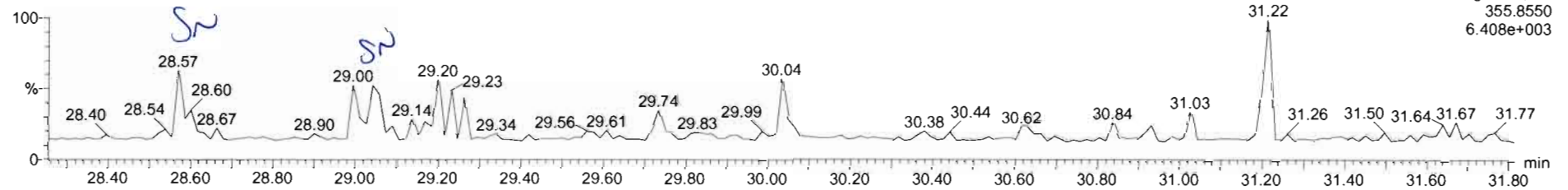
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1,2,3,7,8-PeCDD

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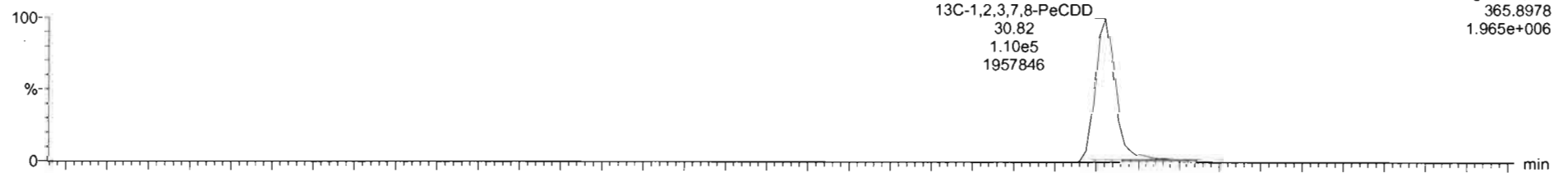


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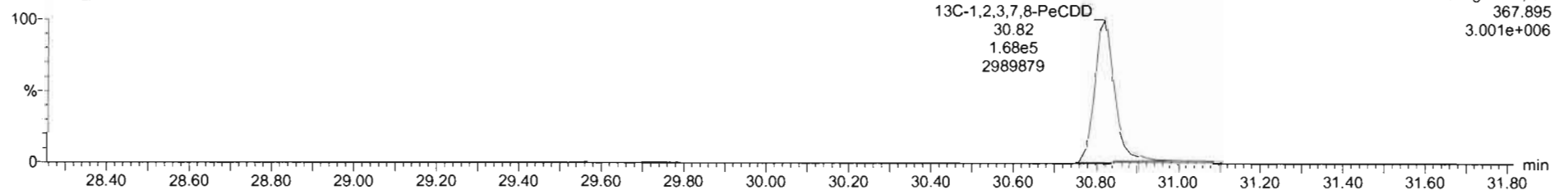


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201125R2_8

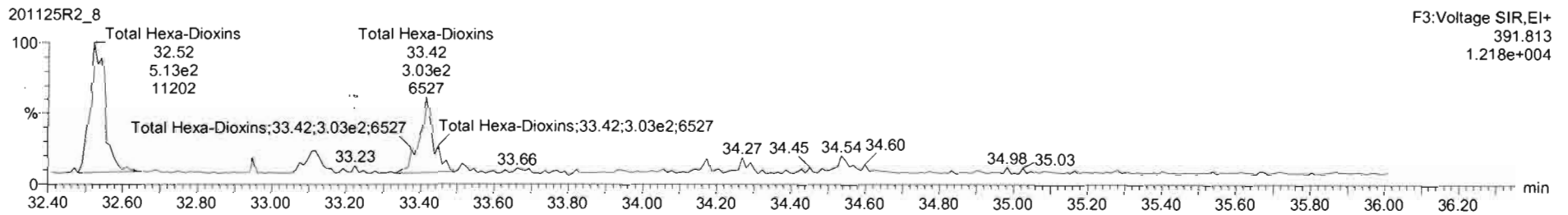
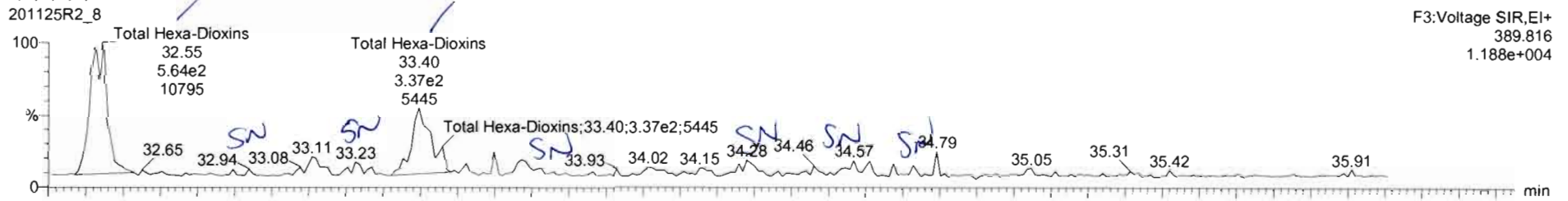


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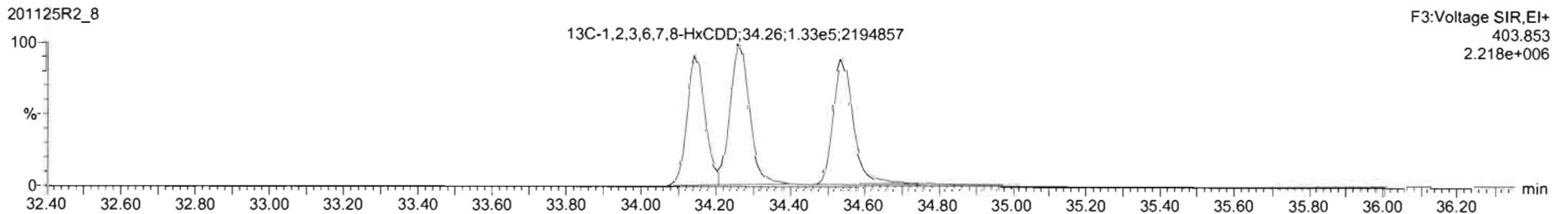
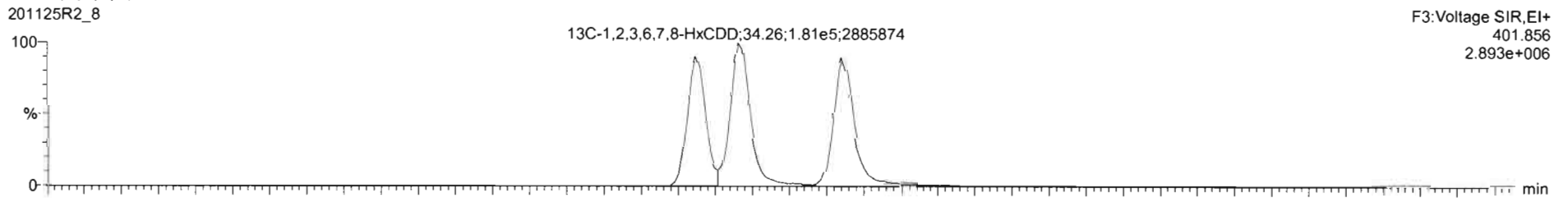
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13C-1,2,3,4,7,8-HxCDD

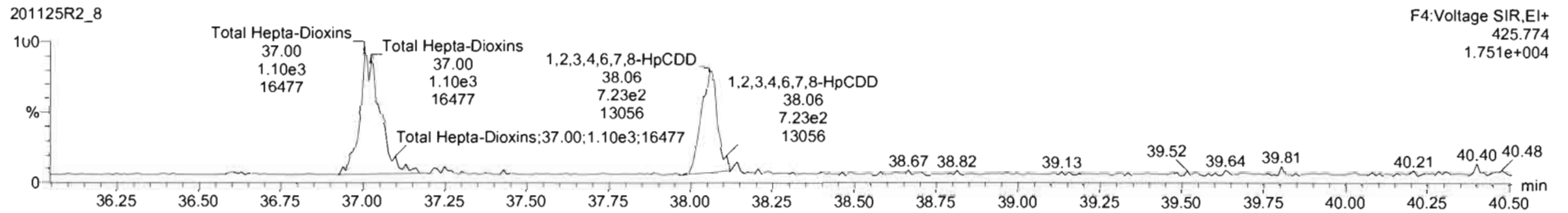
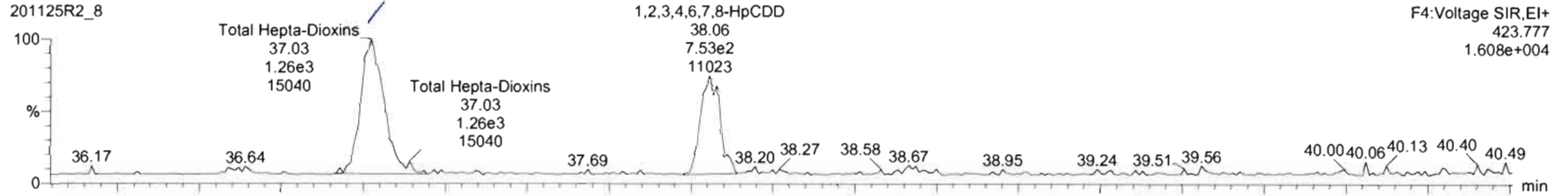


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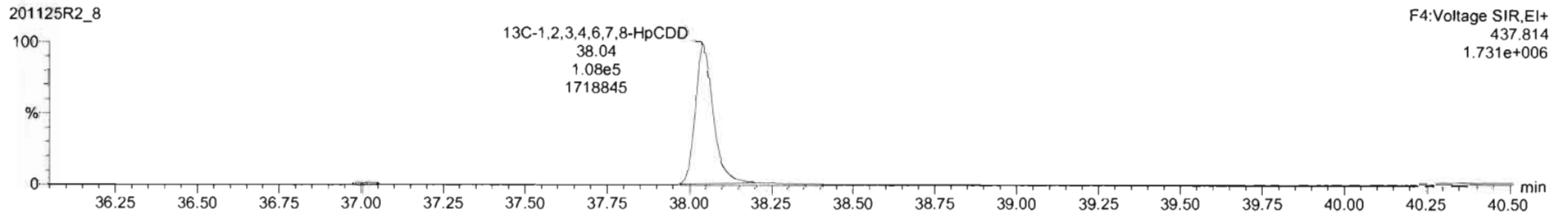
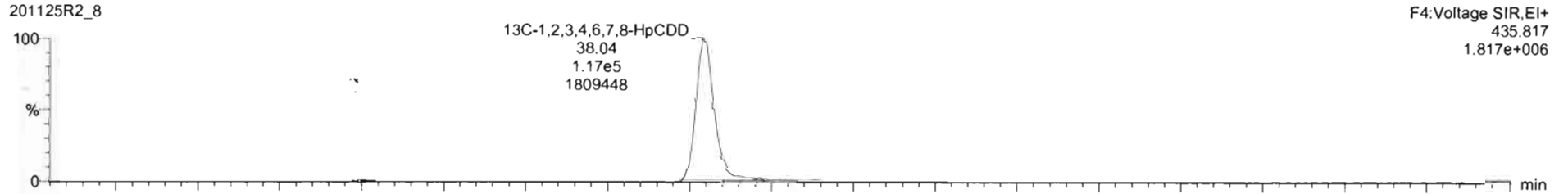
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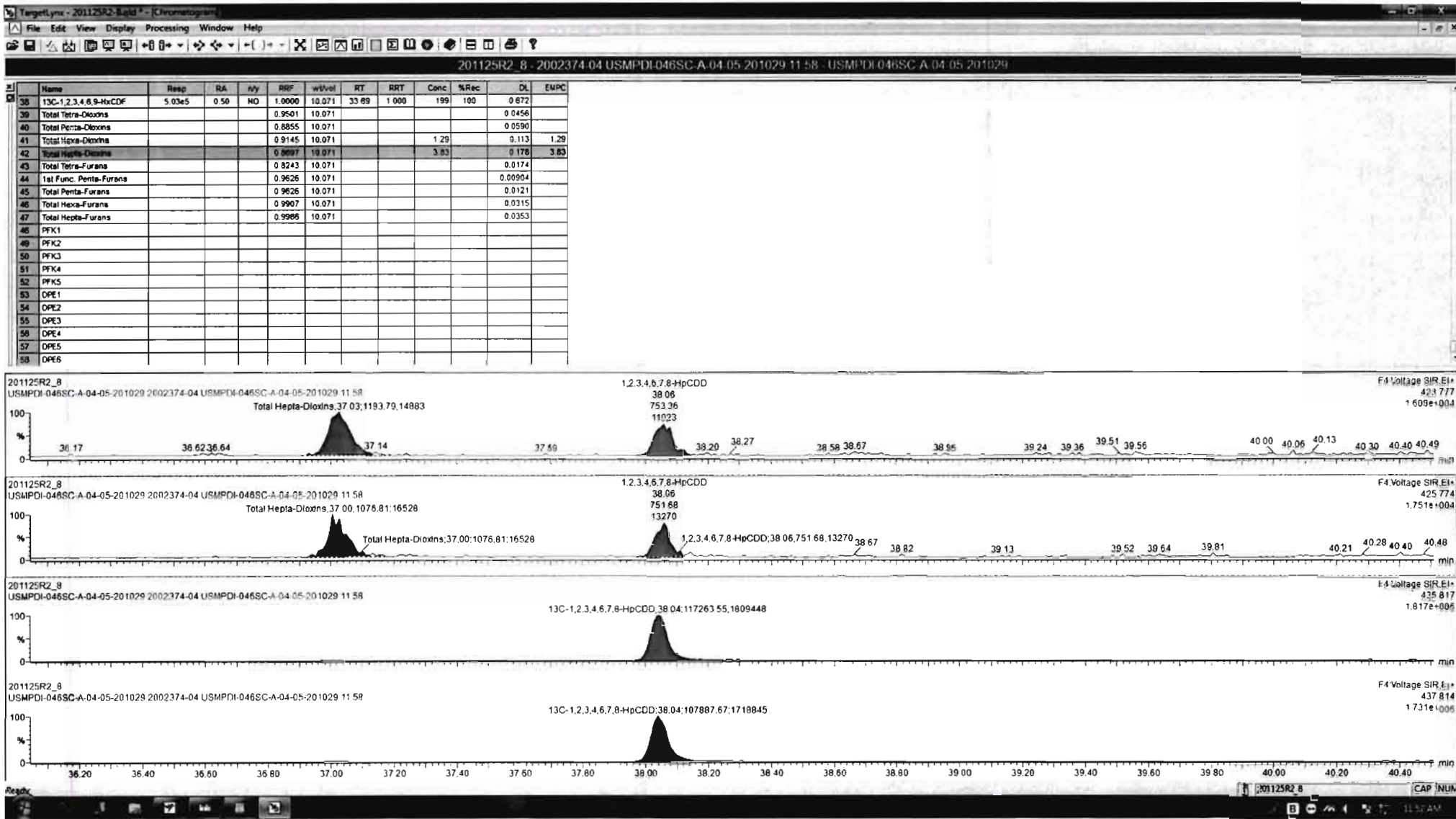
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1,2,3,4,6,7,8-HpCDD



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





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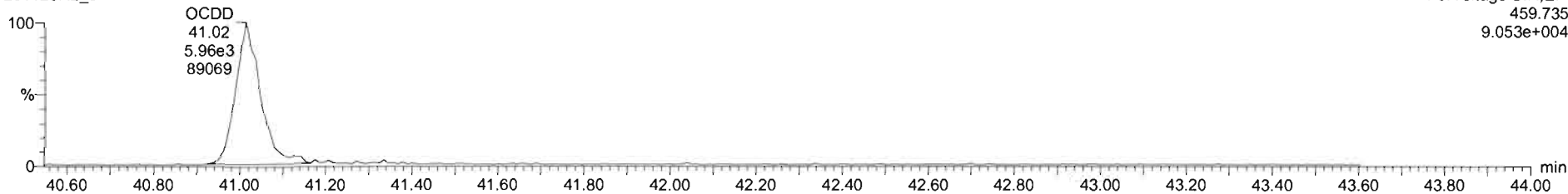
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OCDD

201125R2_8

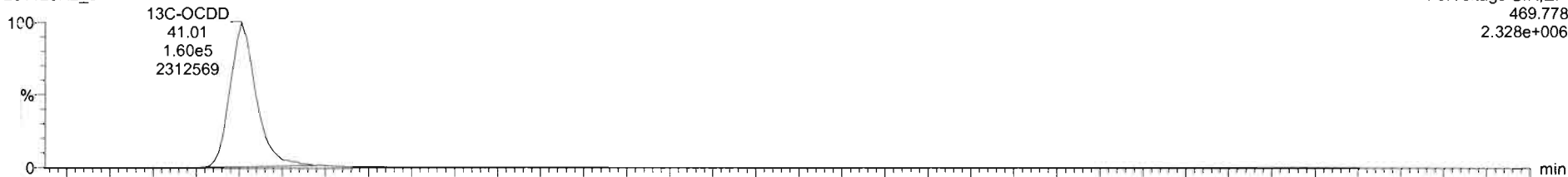


201125R2_8

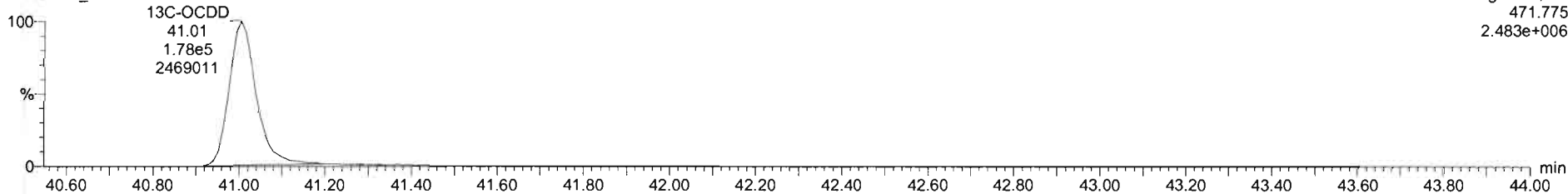


13C-OCDD

201125R2_8



201125R2_8



Name	Resp	RA	n/y	RRF	wtVel	RT	RRT	Conc	%Rec	DL	EMPC
7	OCDD	1.11e4	0.91	NO	0.8717	10.071	41.03	1.001	14.9	0.317	14.9
8	2,3,7,8-TCDF			NO	0.8243	10.071				0.0363	
9	1,2,3,7,8-PeCDF			NO	0.9626	10.071				0.0353	
10	2,3,4,7,8-PeCDF			NO	1.0684	10.071				0.0207	
11	1,2,3,4,7,8-HxCDF			NO	0.9535	10.071				0.0537	
12	1,2,3,6,7,8-HxCDF			NO	1.0080	10.071				0.0546	
13	2,3,4,6,7,8-HxCDF			NO	0.9907	10.071				0.0591	
14	1,2,3,7,8,9-HxCDF			NO	0.9506	10.071				0.100	
15	1,2,3,4,6,7,8-HpCDF			NO	0.9986	10.071				0.0588	
16	1,2,3,4,7,8,9-HpCDF			NO	1.1238	10.071				0.0671	
17	OCDF			NO	0.8682	10.071				0.145	
18	13C-2,3,7,8-TCDD	4.52e5	0.78	NO	1.1089	10.071	26.08	1.030	182	91.4	0.333
19	13C-1,2,3,7,8-PeCDD	2.78e5	0.66	NO	0.8585	10.071	30.82	1.218	144	72.6	0.511
20	13C-1,2,3,4,7,8-HxCDD	2.57e5	1.30	NO	0.8997	10.071	34.14	1.014	145	73.1	0.761
21	13C-1,2,3,6,7,8-HxCDD	3.14e5	1.37	NO	0.8327	10.071	34.26	1.017	149	75.0	0.839
22	13C-1,2,3,7,8,9-HxCDD	2.97e5	1.37	NO	0.7618	10.071	34.54	1.025	154	77.5	0.699
23	13C-1,2,3,4,6,7,8-HpCDD	2.25e5	1.09	NO	0.6496	10.071	38.04	1.129	137	68.9	0.780
24	13C-OCDD	3.36e5	0.90	NO	0.5394	10.071	41.01	1.217	247	62.3	0.711
25	13C-2,3,7,8-TCDF	7.81e5	0.77	NO	0.9814	10.071	25.40	1.004	173	87.0	0.428
26	13C-1,2,3,7,8-PeCDF	5.64e5	1.63	NO	0.7917	10.071	29.58	1.168	154	77.8	0.847
27	13C-2,3,4,7,8-PeCDF	5.36e5	1.63	NO	0.7777	10.071	30.62	1.210	150	75.3	0.862

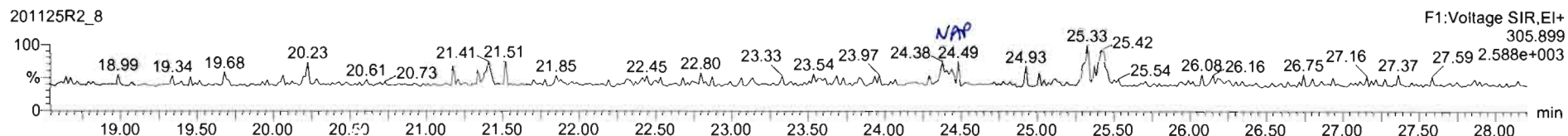
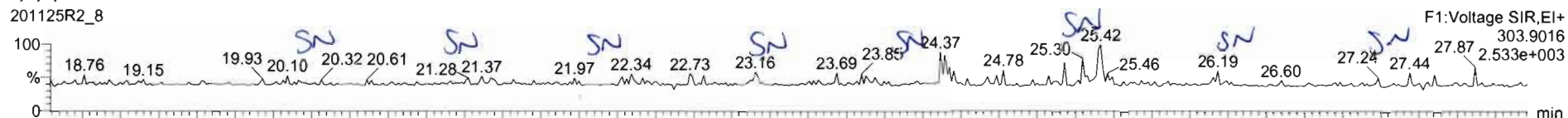


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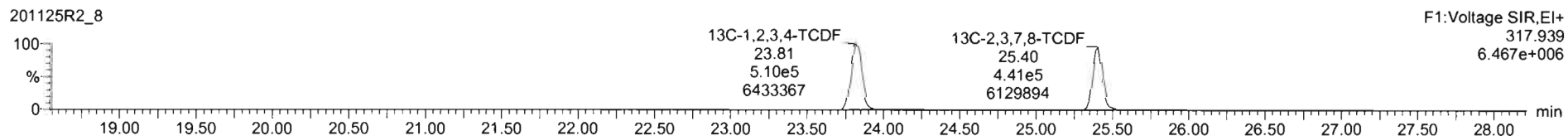
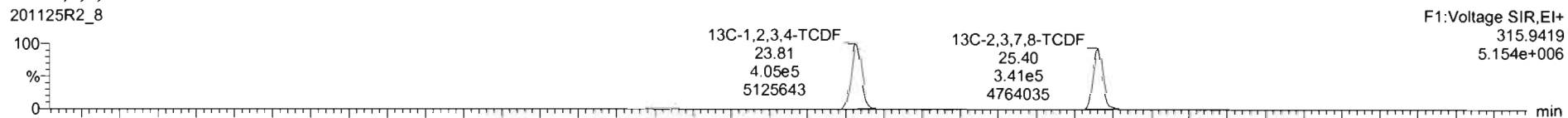
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Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_8, Date: 26-Nov-2020, Time: 02:45:59, ID: 2002374-04 USMPDI-046SC-A-04-05-201029 11.58, Description: USMPDI-046SC-A-04-05-201029

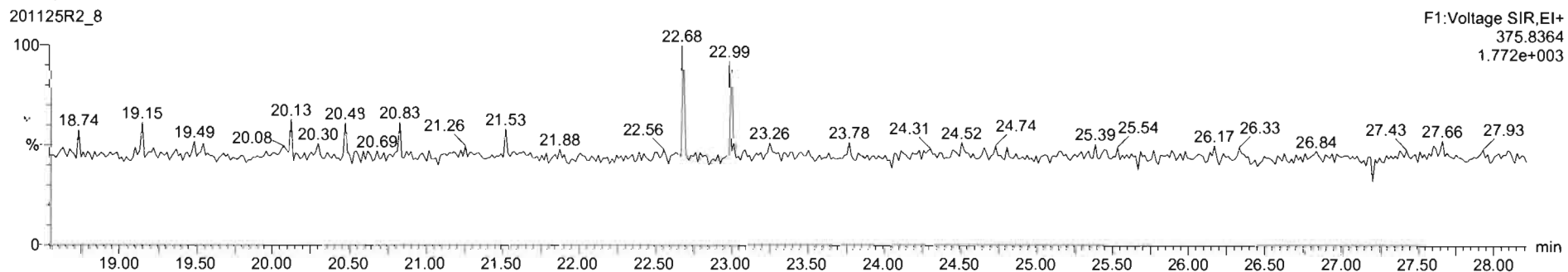
2,3,7,8-TCDF



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



DPE1



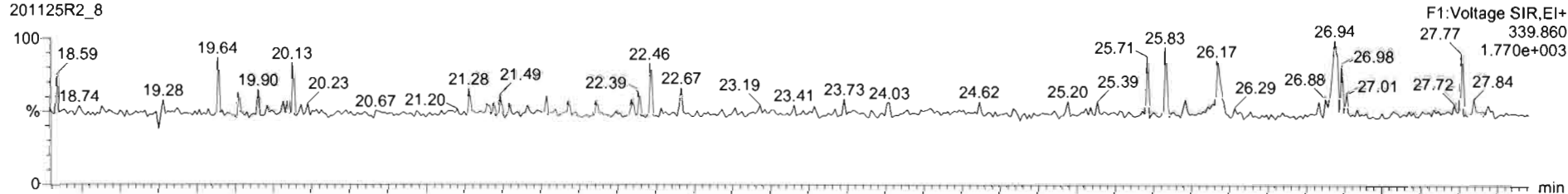
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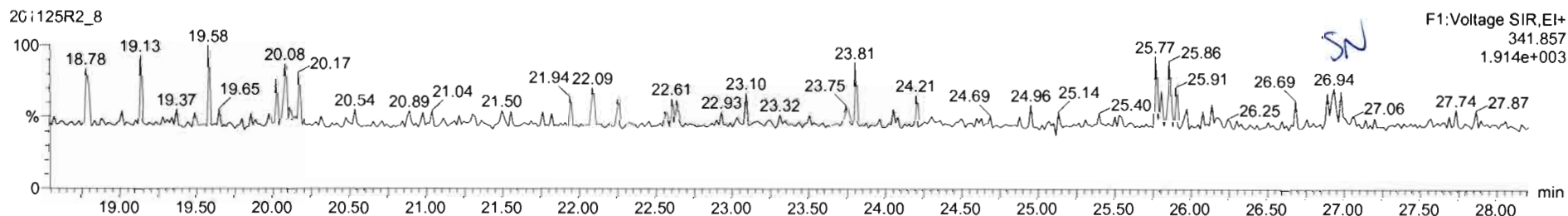
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201125R2_8

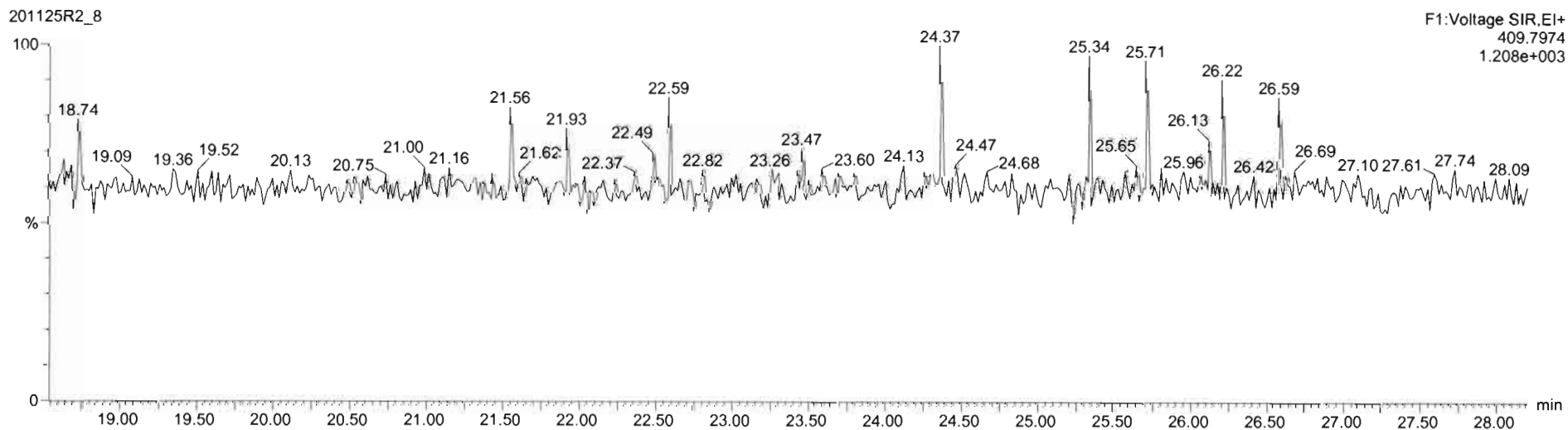


201125R2_8



DPE6

201125R2_8



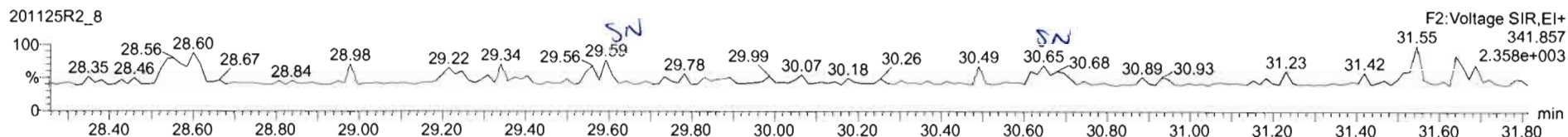
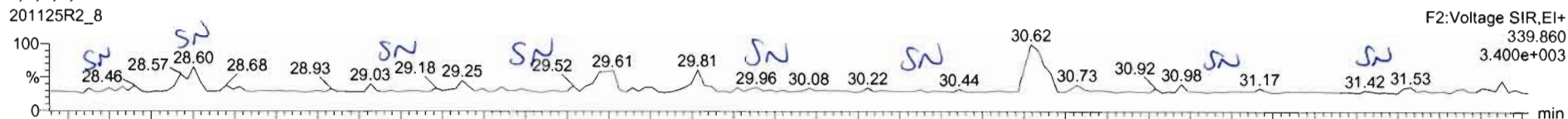
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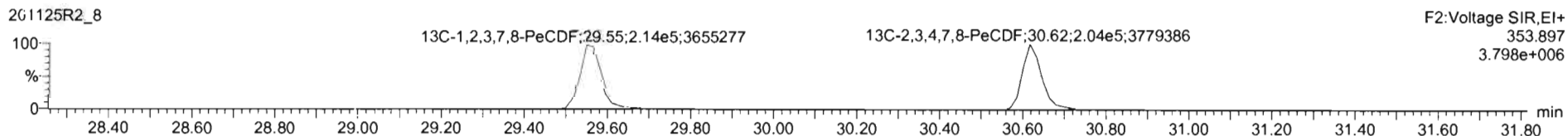
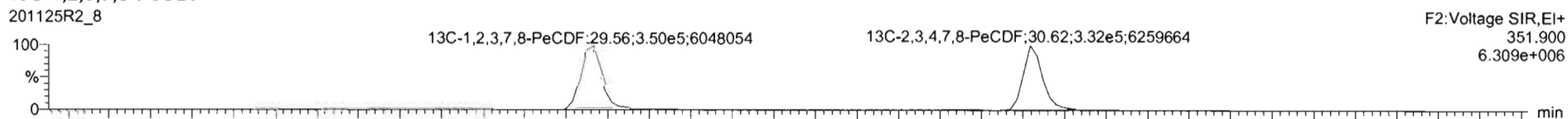
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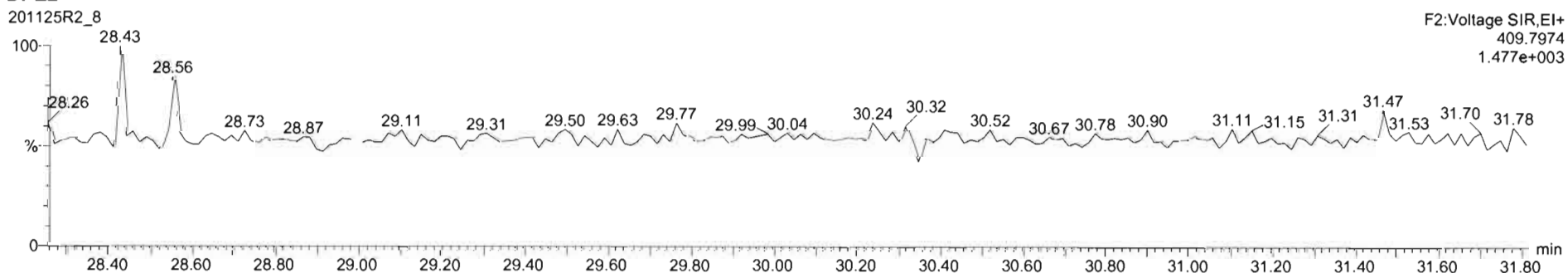
1,2,3,7,8-PeCDF



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



DPE2

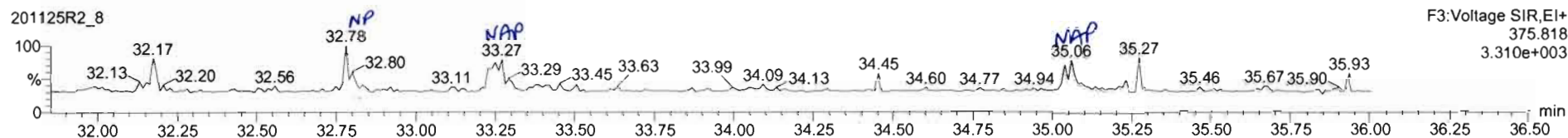
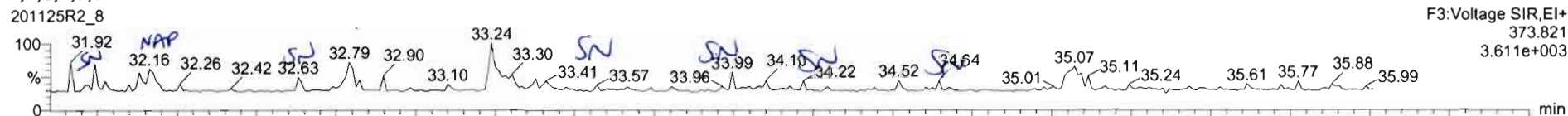


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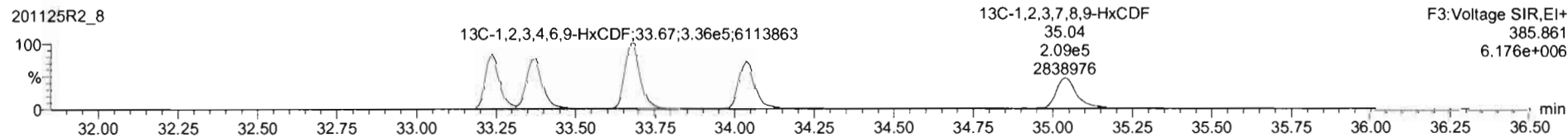
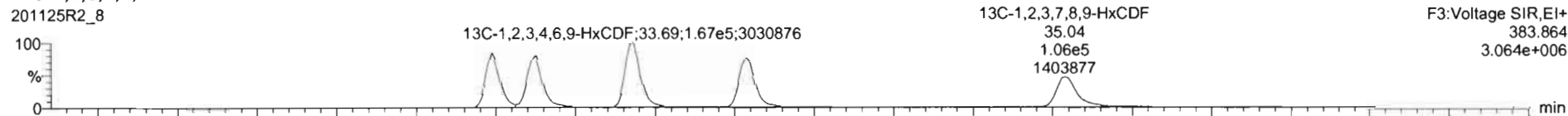
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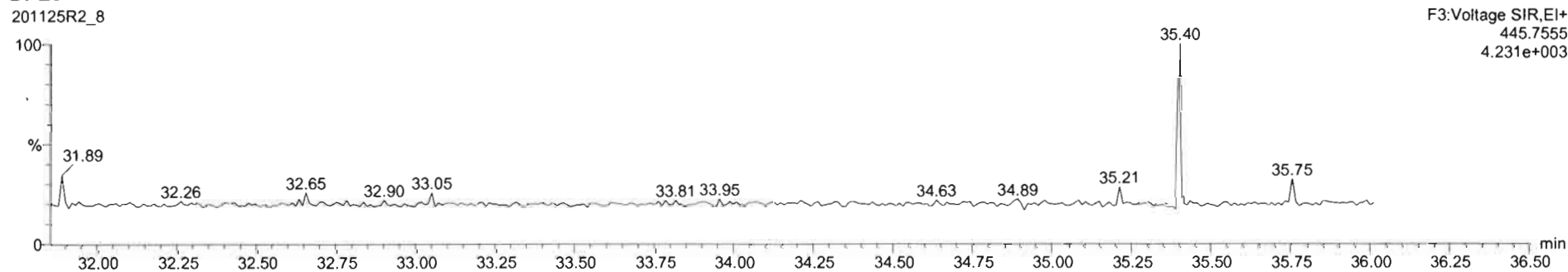
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13C-1,2,3,4,7,8-HxCDF



DPE3

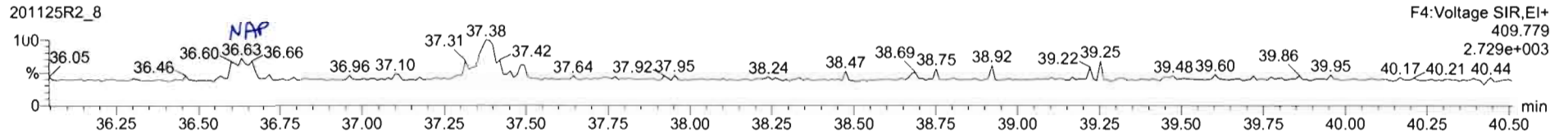
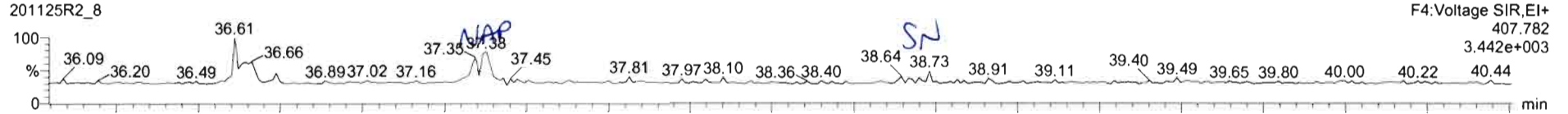


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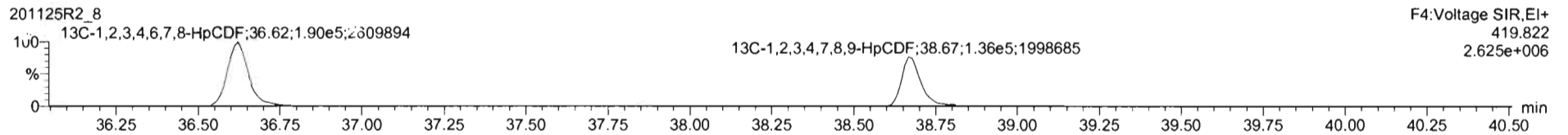
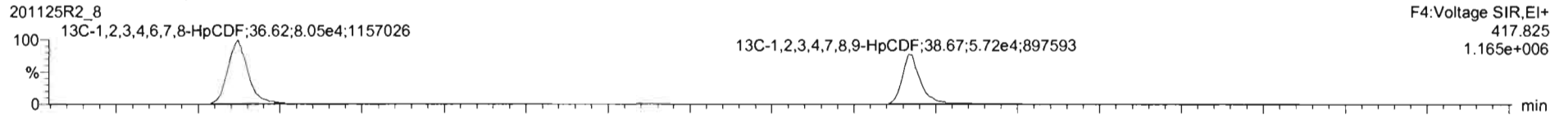
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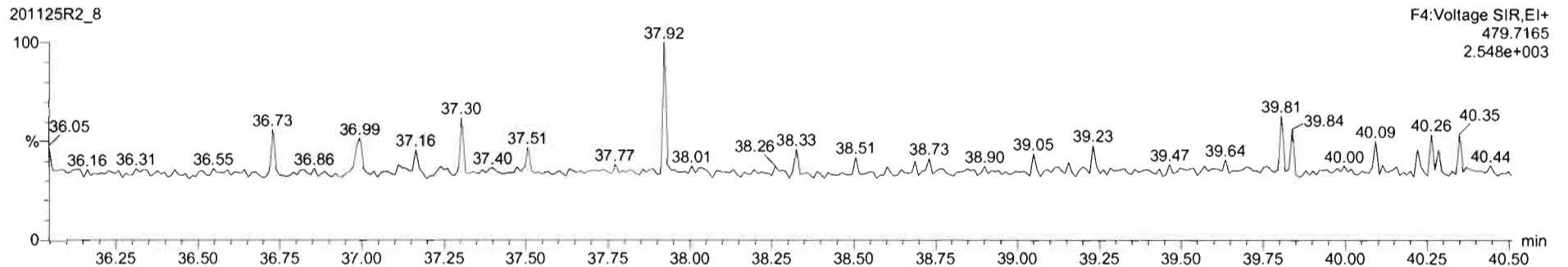
1,2,3,4,6,7,8-HpCDF



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



DPE4

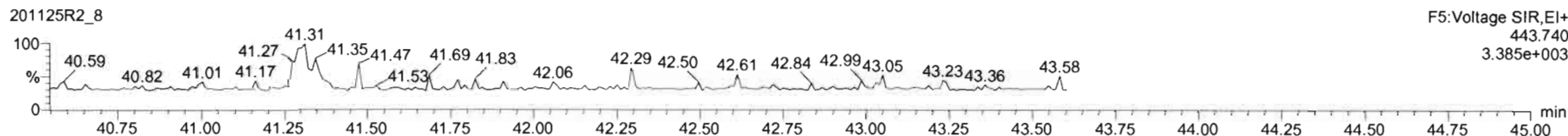
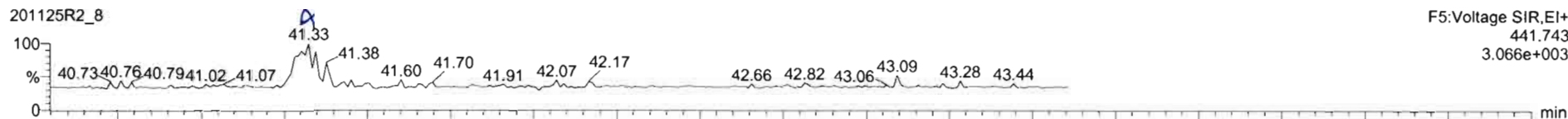


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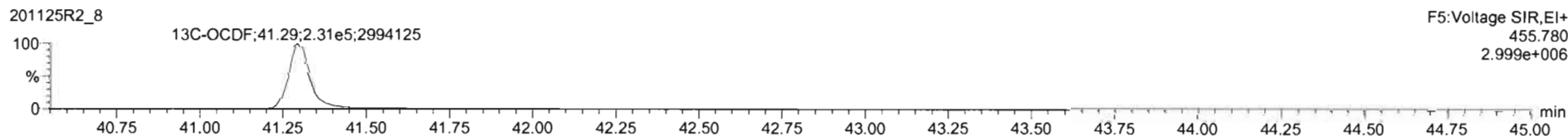
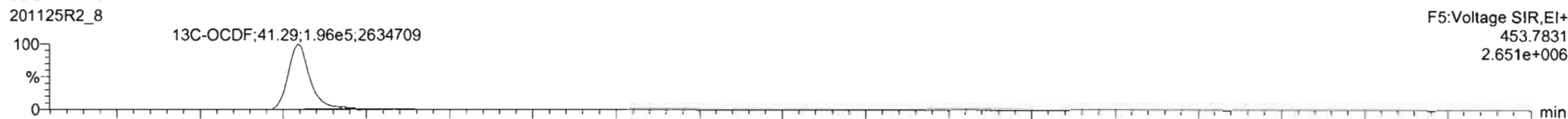
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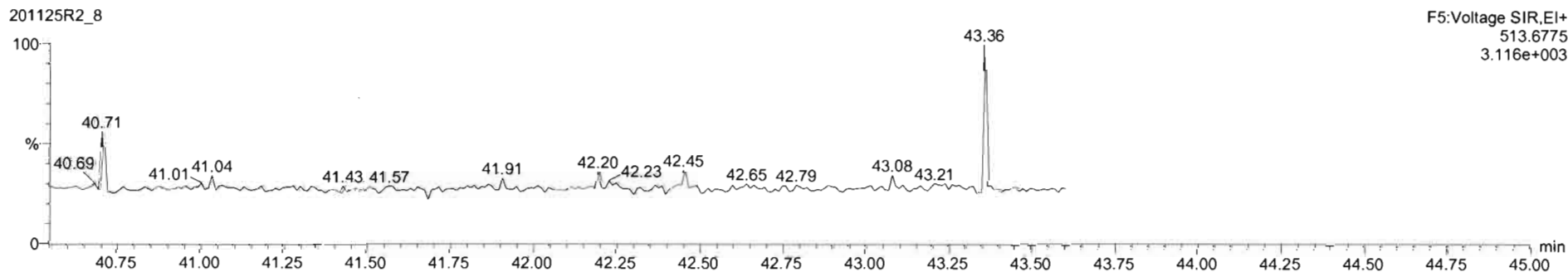
OCDF

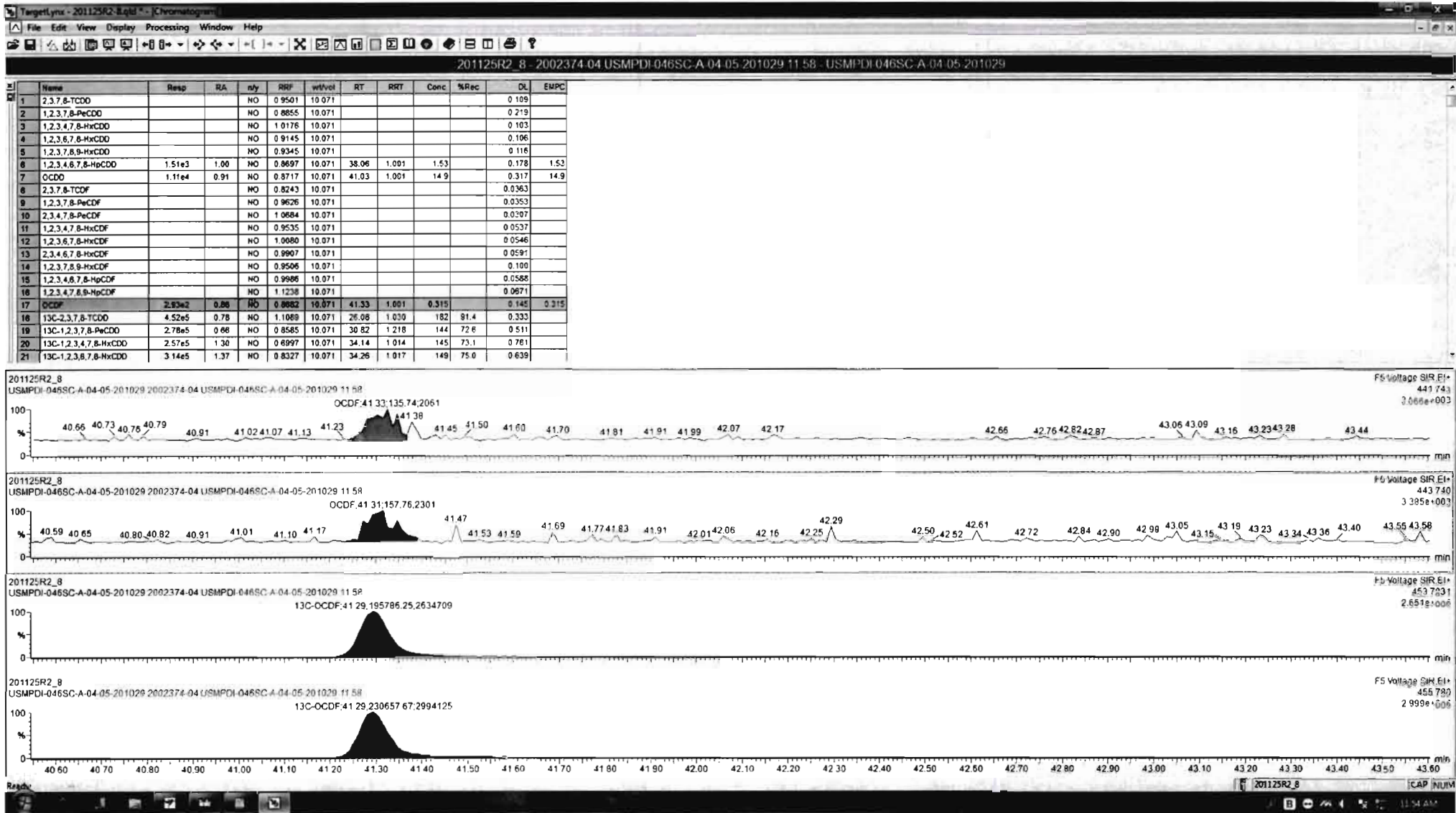


13C-OCDF



DPE5





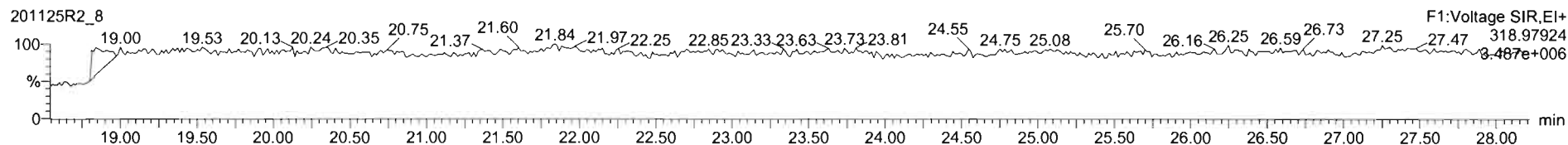
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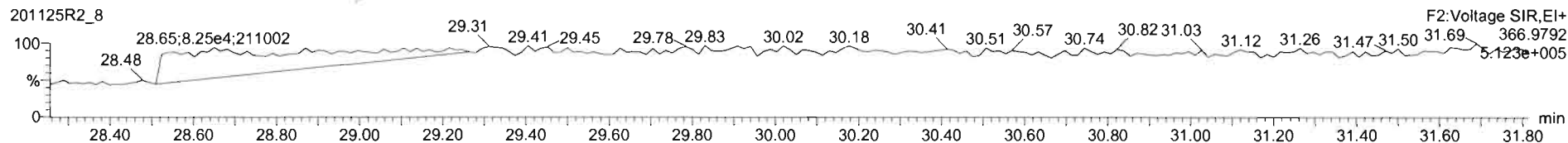
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Name: 201125R2_8, Date: 26-Nov-2020, Time: 02:45:59, ID: 2002374-04 USMPDI-046SC-A-04-05-201029 11.58, Description: USMPDI-046SC-A-04-05-201029

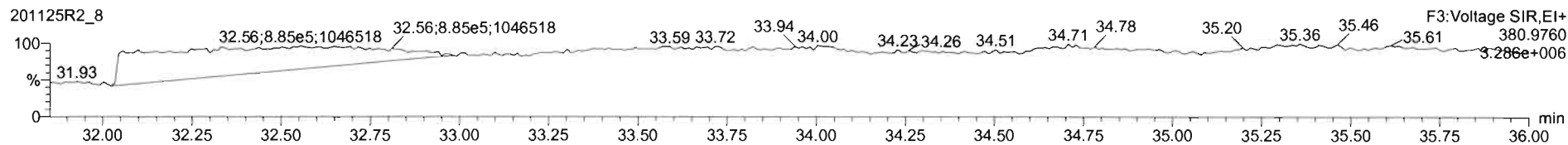
PFK1



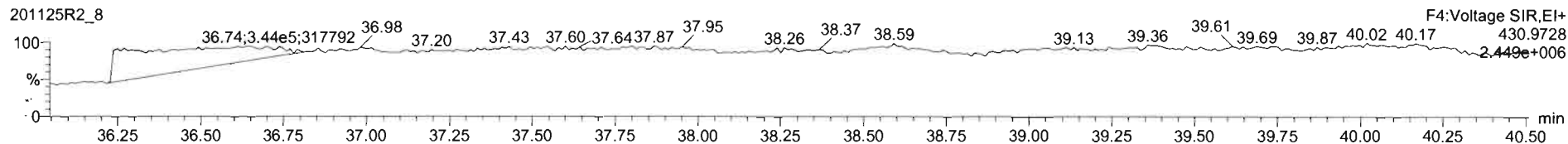
PFK2



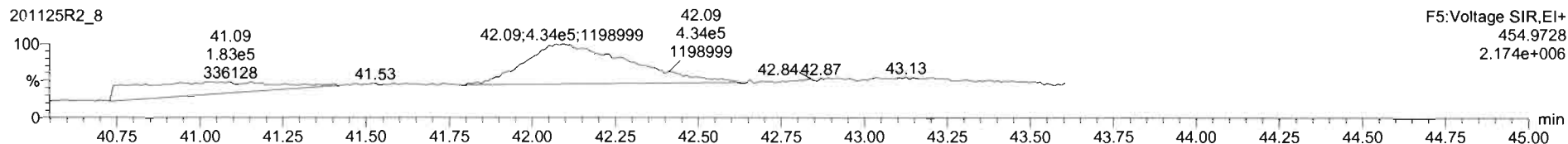
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201125R2\201125R2-9.qld

Last Altered: Tuesday, December 01, 2020 12:21:14 PM Pacific Standard Time
Printed: Tuesday, December 01, 2020 12:21:30 PM Pacific Standard Time

GPB 12/01/2020

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

C: 12/04/2020

SEE DL

Name: 201125R2_9, Date: 26-Nov-2020, Time: 03:30:52, ID: 2002374-05 USMPDI-054SC-A-05-06-201029 16.81, Description: USMPDI-054SC-A-05-06-201029

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.65e3	0.76	NO	0.950	10.108	26.097	26.10	1.001	1.001	1.2302		0.142	1.23
2	2 1,2,3,7,8-PeCDD	5.99e3	0.71	NO	0.885	10.108	30.800	30.81	1.000	1.001	4.8318		0.410	4.83
3	3 1,2,3,4,7,8-HxCDD	3.95e3	1.31	NO	1.02	10.108	34.132	34.13	1.000	1.000	3.1813		0.607	3.18
4	4 1,2,3,6,7,8-HxCDD	3.32e4	1.29	NO	0.915	10.108	34.249	34.25	1.000	1.000	25.608		0.636	25.6
5	5 1,2,3,7,8,9-HxCDD	1.01e4	1.32	NO	0.934	10.108	34.526	34.53	1.000	1.000	8.2697		0.685	8.27
6	6 1,2,3,4,6,7,8-HpCDD	9.23e5	1.02	NO	0.870	10.108	38.016	38.03	1.000	1.000	1130.0		2.81	1130
7	7 OCDD	3.64e6	0.89	NO	0.872	10.108	40.995	41.01	1.000	1.000	17234	E*	7.01	17200
8	8 2,3,7,8-TCDF	4.03e4	0.72	NO	0.824	10.108	25.381	25.39	1.000	1.001	12.626		0.130	12.6
9	9 1,2,3,7,8-PeCDF	5.10e4	1.60	NO	0.963	10.108	29.540	29.55	1.000	1.001	17.906		0.253	17.9
10	10 2,3,4,7,8-PeCDF	1.03e5	1.62	NO	1.07	10.108	30.602	30.62	1.000	1.001	34.259		0.237	34.3
11	11 1,2,3,4,7,8-HxCDF	4.69e4	1.19	NO	0.953	10.108	33.217	33.23	1.000	1.000	26.475		0.422	26.5
12	12 1,2,3,6,7,8-HxCDF	2.35e4	1.23	NO	1.01	10.108	33.345	33.37	1.000	1.001	12.074		0.409	12.1
13	13 2,3,4,6,7,8-HxCDF	2.51e4	1.20	NO	0.991	10.108	34.018	34.04	1.000	1.001	15.293		0.504	15.3
14	14 1,2,3,7,8,9-HxCDF	1.57e3	1.21	NO	0.951	10.108	35.017	35.03	1.000	1.000	1.1508		0.721	1.15
15	15 1,2,3,4,6,7,8-HpCDF	3.85e5	1.01	NO	0.999	10.108	36.593	36.60	1.000	1.000	343.11		1.06	343
16	16 1,2,3,4,7,8,9-HpCDF	9.43e3	0.92	NO	1.12	10.108	38.645	38.65	1.000	1.000	9.9493		1.02	9.95
17	17 OCDF	3.63e5	0.86	NO	0.868	10.108	41.280	41.28	1.000	1.000	848.13		1.46	848
18	18 13C-2,3,7,8-TCDD	4.48e5	0.82	NO	1.11	10.108	26.058	26.07	1.030	1.030	190.99	96.5	0.366	
19	19 13C-1,2,3,7,8-PeCDD	2.77e5	0.65	NO	0.859	10.108	30.774	30.79	1.216	1.217	152.34	77.0	0.373	
20	20 13C-1,2,3,4,7,8-HxCDD	2.41e5	1.34	NO	0.700	10.108	34.121	34.12	1.014	1.014	136.16	68.8	0.561	
21	21 13C-1,2,3,6,7,8-HxCDD	2.81e5	1.32	NO	0.833	10.108	34.259	34.24	1.018	1.017	133.11	67.3	0.471	
22	22 13C-1,2,3,7,8,9-HxCDD	2.59e5	1.28	NO	0.762	10.108	34.501	34.52	1.025	1.026	134.25	67.9	0.515	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.86e5	1.09	NO	0.650	10.108	37.984	38.02	1.129	1.130	112.96	57.1	0.424	
24	24 13C-OCDD	9.59e4	0.90	NO	0.539	10.108	40.949	40.99	1.217	1.218	70.229	17.7	0.341	
25	25 13C-2,3,7,8-TCDF	7.65e5	0.78	NO	0.981	10.108	25.380	25.37	1.003	1.003	180.24	91.1	0.294	
26	26 13C-1,2,3,7,8-PeCDF	5.85e5	1.62	NO	0.792	10.108	29.506	29.53	1.166	1.167	170.82	86.3	0.485	
27	27 13C-2,3,4,7,8-PeCDF	5.54e5	1.68	NO	0.778	10.108	30.564	30.60	1.208	1.210	164.72	83.3	0.494	
28	28 13C-1,2,3,4,7,8-HxCDF	3.67e5	0.50	NO	0.954	10.108	33.212	33.22	0.987	0.987	152.12	76.9	0.618	
29	29 13C-1,2,3,6,7,8-HxCDF	3.83e5	0.51	NO	1.01	10.108	33.343	33.35	0.991	0.991	150.34	76.0	0.586	
30	30 13C-2,3,4,6,7,8-HxCDF	3.28e5	0.51	NO	0.921	10.108	34.013	34.01	1.011	1.011	140.83	71.2	0.640	
31	31 13C-1,2,3,7,8,9-HxCDF	2.85e5	0.50	NO	0.803	10.108	35.009	35.02	1.040	1.041	139.98	70.8	0.734	

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Dataset: U:\VG12.PRO\Results\201125R2\201125R2-9.qld

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Printed: Tuesday, December 01, 2020 12:21:30 PM Pacific Standard Time

Name: 201125R2_9, Date: 26-Nov-2020, Time: 03:30:52, ID: 2002374-05 USMPDI-054SC-A-05-06-201029 16.81, Description: USMPDI-054SC-A-05-06-201029

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.22e5	0.42	NO	0.735	10.108	36.577	36.59	1.087	1.087	119.34	60.3	0.493	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.67e5	0.41	NO	0.568	10.108	38.613	38.65	1.147	1.148	116.18	58.7	0.638	
34	34 13C-OCDF	1.95e5	0.87	NO	0.629	10.108	41.232	41.27	1.225	1.226	122.36	30.9	0.469	
35	35 37Cl-2,3,7,8-TCDD	2.11e5			1.09	10.108	26.058	26.08	1.030	1.031	91.523	116	0.112	
36	36 13C-1,2,3,4-TCDD	4.19e5	0.81	NO	1.00	10.108	25.370	25.30	1.000	1.000	197.86	100	0.406	
37	37 13C-1,2,3,4-TCDF	8.56e5	0.80	NO	1.00	10.108	23.870	23.79	1.000	1.000	197.86	100	0.289	
38	38 13C-1,2,3,4,6,9-HxCDF	5.01e5	0.51	NO	1.00	10.108	33.710	33.65	1.000	1.000	197.86	100	0.590	
39	39 Total Tetra-Dioxins				0.950	10.108	24.620		0.000		22.510		0.142	22.5
40	40 Total Penta-Dioxins				0.885	10.108	29.960		0.000		65.925		0.410	76.7
41	41 Total Hexa-Dioxins				0.915	10.108	33.635		0.000		266.33		0.669	266
42	42 Total Hepta-Dioxins				0.870	10.108	37.640		0.000		2946.2		2.81	2950
43	43 Total Tetra-Furans				0.824	10.108	23.610		0.000		159.16		0.130	160
44	44 1st Func. Penta-Furans				0.963	10.108	26.930		0.000		96.561		0.0450	96.6
45	45 Total Penta-Furans				0.963	10.108	29.275		0.000		172.09		0.258	173
46	46 Total Hexa-Furans				0.991	10.108	33.555		0.000		419.89		0.492	420
47	47 Total Hepta-Furans				0.999	10.108	37.835		0.000		979.44		1.10	979

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Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R2_9, Date: 26-Nov-2020, Time: 03:30:52, ID: 2002374-05 USMPDI-054SC-A-05-06-201029 16.81, Description: USMPDI-054SC-A-05-06-201029

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.24	8.170e4	1.033e5	7.532e3	9.500e3	0.79	NO	1.703e4	7.9135	7.9135	0.142
2	Total Tetra-Dioxins	22.61	1.878e4	2.499e4	1.646e3	1.880e3	0.88	NO	3.526e3	1.6383	1.6383	0.142
3	Total Tetra-Dioxins	23.16	1.035e4	1.614e4	7.291e2	1.025e3	0.71	NO	1.754e3	0.81496	0.81496	0.142
4	Total Tetra-Dioxins	23.98	9.777e3	1.031e4	4.330e2	6.161e2	0.70	NO	1.049e3	0.48742	0.48742	0.142
5	Total Tetra-Dioxins	24.20	3.251e4	3.828e4	2.340e3	3.050e3	0.77	NO	5.390e3	2.5041	2.5041	0.142
6	Total Tetra-Dioxins	24.44	4.000e4	4.580e4	2.658e3	3.282e3	0.81	NO	5.940e3	2.7597	2.7597	0.142
7	Total Tetra-Dioxins	24.63	9.487e3	1.043e4	6.852e2	7.843e2	0.87	NO	1.470e3	0.68278	0.68278	0.142
8	Total Tetra-Dioxins	24.93	8.665e3	6.854e3	3.634e2	4.176e2	0.87	NO	7.810e2	0.36285	0.36285	0.142
9	Total Tetra-Dioxins	25.00	1.280e4	1.875e4	1.009e3	1.295e3	0.78	NO	2.304e3	1.0704	1.0704	0.142
10	Total Tetra-Dioxins	25.39	3.843e3	7.482e3	3.056e2	3.647e2	0.84	NO	6.702e2	0.31141	0.31141	0.142
11	Total Tetra-Dioxins	25.80	1.680e4	1.862e4	1.512e3	1.776e3	0.85	NO	3.288e3	1.5275	1.5275	0.142
12	2,3,7,8-TCDD	26.10	1.773e4	2.412e4	1.140e3	1.508e3	0.76	NO	2.648e3	1.2302	1.2302	0.142
13	Total Tetra-Dioxins	26.41	1.317e4	1.572e4	7.584e2	9.979e2	0.76	NO	1.756e3	0.81601	0.81601	0.142
14	Total Tetra-Dioxins	26.56	2.088e3	2.252e3	1.162e2	1.394e2	0.83	NO	2.556e2	0.11874	0.11874	0.142
15	Total Tetra-Dioxins	26.99	3.925e3	5.128e3	2.580e2	3.278e2	0.79	NO	5.858e2	0.27216	0.27216	0.142

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.54	1.699e5	2.432e5	1.183e4	1.759e4	0.67	NO	2.942e4	23.751	23.751	0.410
2	Total Penta-Dioxins	29.03	1.890e4	3.243e4	1.120e3	1.697e3	0.66	NO	2.817e3	2.2744	2.2744	0.410
3	Total Penta-Dioxins	29.55	2.249e5	3.652e5	1.136e4	1.793e4	0.63	NO	2.929e4	23.646	23.646	0.410
4	Total Penta-Dioxins	29.72	7.299e4	9.368e4	3.126e3	4.698e3	0.67	NO	0.000e0	0.00000	6.3161	0.410
5	Total Penta-Dioxins	29.75	4.194e4	7.127e4	2.267e3	3.304e3	0.69	NO	0.000e0	0.00000	4.4974	0.410
6	Total Penta-Dioxins	30.03	4.680e4	6.798e4	3.470e3	5.015e3	0.69	NO	8.485e3	6.8495	6.8495	0.410
7	Total Penta-Dioxins	30.33	8.562e3	1.472e4	4.742e2	6.972e2	0.68	NO	1.171e3	0.94561	0.94561	0.410
8	1,2,3,7,8-PeCDD	30.81	5.051e4	7.567e4	2.493e3	3.493e3	0.71	NO	5.985e3	4.8318	4.8318	0.410
9	Total Penta-Dioxins	30.90	1.758e4	1.946e4	8.131e2	1.191e3	0.68	NO	2.004e3	1.6175	1.6175	0.410
10	Total Penta-Dioxins	31.17	1.718e4	2.843e4	9.851e2	1.503e3	0.66	NO	2.488e3	2.0085	2.0085	0.410

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Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.50	1.285e6	9.860e5	6.385e4	4.975e4	1.28	NO	1.136e5	94.453	94.453	0.669
2	Total Hexa-Dioxins	33.10	1.737e5	1.309e5	8.780e3	6.726e3	1.31	NO	1.551e4	12.892	12.892	0.669
3	Total Hexa-Dioxins	33.39	1.114e6	8.814e5	7.885e4	6.249e4	1.26	NO	1.413e5	117.51	117.51	0.669
4	Total Hexa-Dioxins	33.48	3.960e4	3.515e4	1.760e3	1.563e3	1.13	NO	3.323e3	2.7625	2.7625	0.669
5	1,2,3,4,7,8-HxCDD	34.13	3.480e4	2.886e4	2.239e3	1.707e3	1.31	NO	3.946e3	3.1813	3.1813	0.607
6	1,2,3,6,7,8-HxCDD	34.25	3.009e5	2.292e5	1.869e4	1.452e4	1.29	NO	3.321e4	25.608	25.608	0.636
7	Total Hexa-Dioxins	34.41	2.076e4	1.476e4	1.157e3	8.266e2	1.40	NO	1.984e3	1.6495	1.6495	0.669
8	1,2,3,7,8,9-HxCDD	34.53	8.987e4	6.807e4	5.745e3	4.366e3	1.32	NO	1.011e4	8.2697	8.2697	0.685

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.98	9.417e6	9.340e6	7.491e5	7.337e5	1.02	NO	1.483e6	1816.2	1816.2	2.81
2	1,2,3,4,6,7,8-HpCDD	38.03	6.882e6	6.836e6	4.648e5	4.578e5	1.02	NO	9.226e5	1130.0	1130.0	2.81

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Name: 201125R2_9, Date: 26-Nov-2020, Time: 03:30:52, ID: 2002374-05 USMPDI-054SC-A-05-06-201029 16.81, Description: USMPDI-054SC-A-05-06-201029

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.58	7.383e4	9.577e4	6.333e3	8.549e3	0.74	NO	1.488e4	4.6673	4.6673	0.130
2	Total Tetra-Furans	21.37	5.759e5	7.797e5	5.229e4	7.157e4	0.73	NO	1.239e5	38.848	38.848	0.130
3	Total Tetra-Furans	21.62	5.513e3	7.928e3	4.833e2	5.759e2	0.84	NO	0.000e0	0.00000	0.33221	0.130
4	Total Tetra-Furans	21.74	2.873e4	4.077e4	2.904e3	3.895e3	0.75	NO	6.799e3	2.1324	2.1324	0.130
5	Total Tetra-Furans	21.85	2.069e4	2.728e4	1.837e3	2.260e3	0.81	NO	4.097e3	1.2849	1.2849	0.130
6	Total Tetra-Furans	21.96	1.813e4	2.118e4	1.342e3	1.790e3	0.75	NO	3.132e3	0.98226	0.98226	0.130
7	Total Tetra-Furans	22.30	2.481e5	3.383e5	2.377e4	3.258e4	0.73	NO	5.635e4	17.674	17.674	0.130
8	Total Tetra-Furans	22.77	3.645e5	5.110e5	3.027e4	4.138e4	0.73	NO	7.166e4	22.474	22.474	0.130
9	Total Tetra-Furans	22.87	1.227e4	2.142e4	9.310e2	1.093e3	0.85	NO	2.024e3	0.63465	0.63465	0.130
10	Total Tetra-Furans	23.11	2.824e4	3.829e4	2.409e3	3.046e3	0.79	NO	5.456e3	1.7110	1.7110	0.130
11	Total Tetra-Furans	23.54	5.697e3	9.864e3	4.537e2	6.535e2	0.69	NO	0.000e0	0.00000	0.34727	0.130
12	Total Tetra-Furans	23.66	3.562e4	4.756e4	2.536e3	3.293e3	0.77	NO	5.830e3	1.8284	1.8284	0.130
13	Total Tetra-Furans	23.85	4.784e4	6.525e4	1.616e3	2.239e3	0.72	NO	3.855e3	1.2090	1.2090	0.130
14	Total Tetra-Furans	23.92	3.718e5	4.980e5	3.214e4	4.314e4	0.74	NO	7.528e4	23.611	23.611	0.130
15	Total Tetra-Furans	24.37	2.477e5	3.488e5	1.792e4	2.511e4	0.71	NO	4.303e4	13.494	13.494	0.130
16	Total Tetra-Furans	24.69	1.525e4	2.455e4	1.130e3	1.601e3	0.71	NO	2.731e3	0.85659	0.85659	0.130
17	Total Tetra-Furans	24.81	1.339e4	1.977e4	1.023e3	1.339e3	0.76	NO	2.362e3	0.74081	0.74081	0.130
18	Total Tetra-Furans	24.93	5.928e3	5.643e3	3.130e2	3.712e2	0.84	NO	6.841e2	0.21457	0.21457	0.130
19	Total Tetra-Furans	25.12	1.849e4	2.306e4	1.286e3	1.629e3	0.79	NO	2.914e3	0.91407	0.91407	0.130
20	Total Tetra-Furans	25.27	9.831e4	1.069e5	5.576e3	7.082e3	0.79	NO	1.266e4	3.9698	3.9698	0.130
21	2,3,7,8-TCDF	25.39	2.493e5	3.446e5	1.692e4	2.334e4	0.72	NO	4.026e4	12.626	12.626	0.130
22	Total Tetra-Furans	25.70	2.722e4	3.778e4	1.980e3	2.822e3	0.70	NO	4.803e3	1.5063	1.5063	0.130
23	Total Tetra-Furans	25.96	9.589e3	1.097e4	6.264e2	9.023e2	0.69	NO	1.529e3	0.47944	0.47944	0.130
24	Total Tetra-Furans	26.93	1.364e5	1.644e5	8.354e3	1.110e4	0.75	NO	1.945e4	6.1002	6.1002	0.130
25	Total Tetra-Furans	27.12	1.199e4	9.791e3	8.462e2	8.431e2	1.00	YES	0.000e0	0.00000	0.46801	0.130
26	Total Tetra-Furans	27.30	3.173e4	3.477e4	1.770e3	2.055e3	0.86	NO	3.825e3	1.1998	1.1998	0.130

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	26.91	2.774e6	1.666e6	1.681e5	9.948e4	1.69	NO	2.676e5	96.561	96.561	0.0450

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.40	1.276e5	6.145e4	6.998e3	4.088e3	1.71	NO	1.109e4	4.0000	4.0000	0.258
2	Total Penta-Furans	28.56	1.681e6	1.051e6	1.158e5	7.354e4	1.57	NO	1.893e5	68.313	68.313	0.258
3	Total Penta-Furans	29.03	2.047e4	1.685e4	1.210e3	7.727e2	1.57	NO	1.983e3	0.71536	0.71536	0.258
4	Total Penta-Furans	29.18	8.535e5	5.281e5	4.612e4	2.869e4	1.61	NO	7.481e4	26.992	26.992	0.258
5	Total Penta-Furans	29.34	1.652e5	9.548e4	9.076e3	5.433e3	1.67	NO	1.451e4	5.2348	5.2348	0.258
6	1,2,3,7,8-PeCDF	29.55	6.106e5	3.686e5	3.138e4	1.959e4	1.60	NO	5.097e4	17.906	17.906	0.253
7	Total Penta-Furans	29.80	4.697e5	2.870e5	2.369e4	1.428e4	1.66	NO	3.797e4	13.698	13.698	0.258
8	Total Penta-Furans	30.33	7.550e3	4.034e3	3.185e2	2.521e2	1.26	YES	0.000e0	0.00000	0.18907	0.258
9	Total Penta-Furans	30.43	3.124e4	2.140e4	1.628e3	1.073e3	1.52	NO	2.700e3	0.97431	0.97431	0.258
10	2,3,4,7,8-PeCDF	30.62	1.202e6	7.149e5	6.333e4	3.920e4	1.62	NO	1.025e5	34.259	34.259	0.237
11	Total Penta-Furans	31.53	2.280e4	1.150e4	1.178e3	6.566e2	1.79	YES	0.000e0	0.00000	0.60406	0.258

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	31.97	9.063e5	7.134e5	4.413e4	3.528e4	1.25	NO	7.942e4	46.546	46.546	0.492
2	Total Hexa-Furans	32.14	2.315e6	1.886e6	1.163e5	9.641e4	1.21	NO	2.127e5	124.66	124.66	0.492
3	Total Hexa-Furans	32.53	3.115e4	2.516e4	1.444e3	1.312e3	1.10	NO	2.756e3	1.6150	1.6150	0.492
4	Total Hexa-Furans	32.76	3.421e6	2.884e6	1.735e5	1.445e5	1.20	NO	3.180e5	186.40	186.40	0.492
5	Total Hexa-Furans	33.10	2.067e4	1.654e4	1.025e3	8.499e2	1.21	NO	1.875e3	1.0990	1.0990	0.492
6	1,2,3,4,7,8-HxCDF	33.23	4.732e5	3.855e5	2.551e4	2.135e4	1.19	NO	4.685e4	26.475	26.475	0.422
7	1,2,3,6,7,8-HxCDF	33.37	2.218e5	1.831e5	1.300e4	1.055e4	1.23	NO	2.355e4	12.074	12.074	0.409
8	Total Hexa-Furans	33.69	1.618e4	1.119e4	9.804e2	7.239e2	1.35	NO	1.704e3	0.99887	0.99887	0.492
9	2,3,4,6,7,8-HxCDF	34.04	2.035e5	1.760e5	1.370e4	1.144e4	1.20	NO	2.514e4	15.293	15.293	0.504
10	1,2,3,7,8,9-HxCDF	35.03	4.507e4	3.347e4	8.613e2	7.126e2	1.21	NO	1.574e3	1.1508	1.1508	0.721
11	Total Hexa-Furans	35.05	5.931e4	5.170e4	3.288e3	2.829e3	1.16	NO	6.117e3	3.5853	3.5853	0.492

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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	36.60	2.528e6	2.524e6	1.931e5	1.916e5	1.01	NO	3.847e5	343.11	343.11	1.06
2	Total Hepta-Furans	37.32	3.962e6	4.084e6	3.055e5	3.095e5	0.99	NO	6.150e5	626.38	626.38	1.10
3	1,2,3,4,7,8,9-HpCDF	38.65	6.636e4	7.516e4	4.516e3	4.918e3	0.92	NO	9.434e3	9.9493	9.9493	1.02

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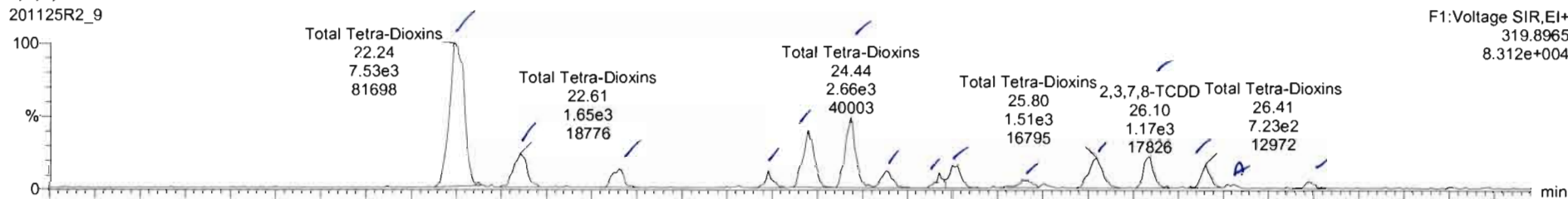
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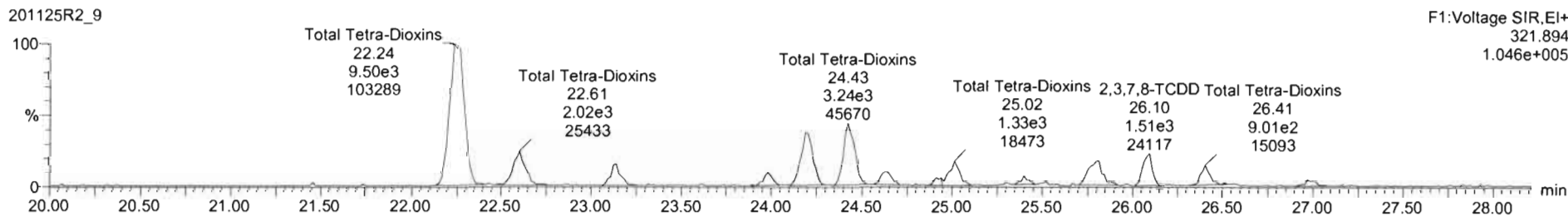
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2,3,7,8-TCDD

201125R2_9

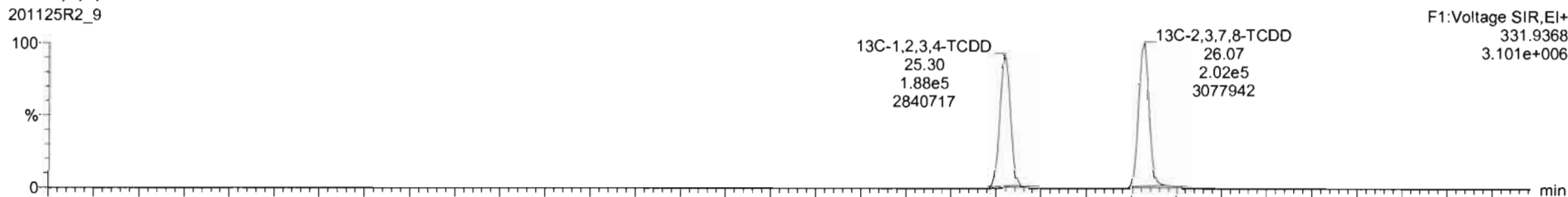


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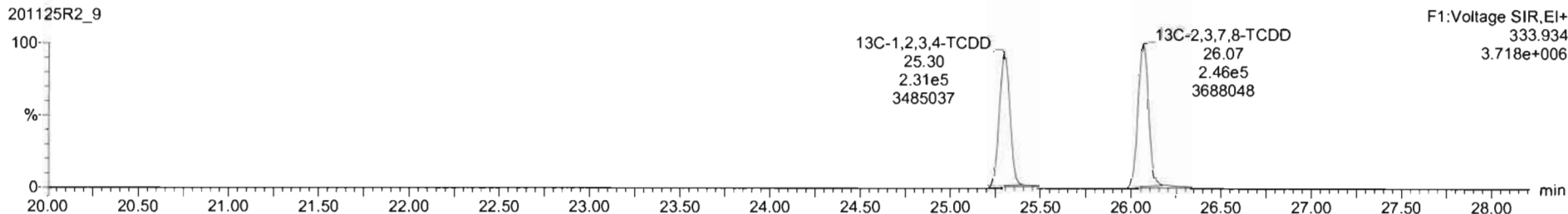


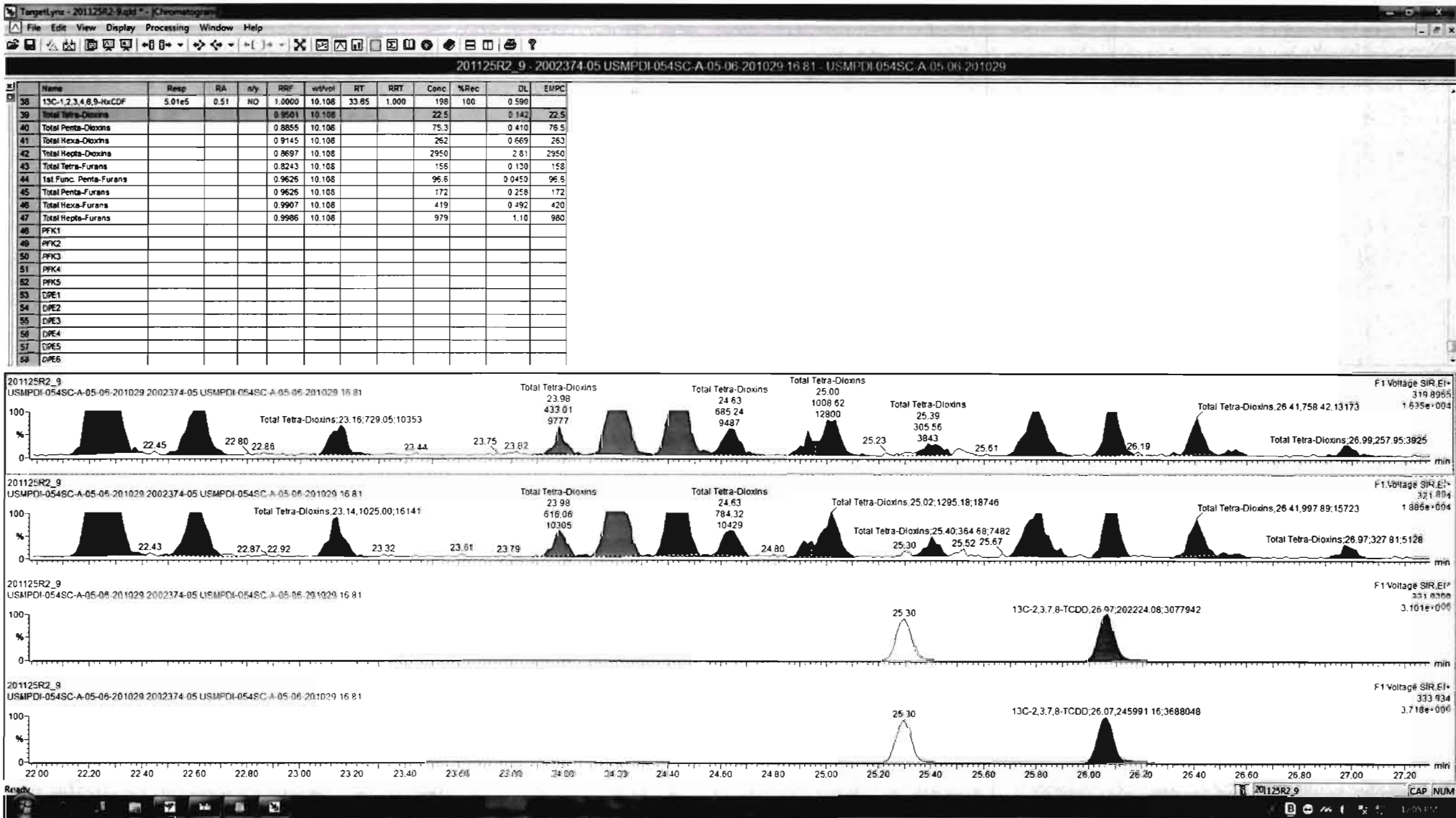
13C-2,3,7,8-TCDD

201125R2_9



201125R2_9





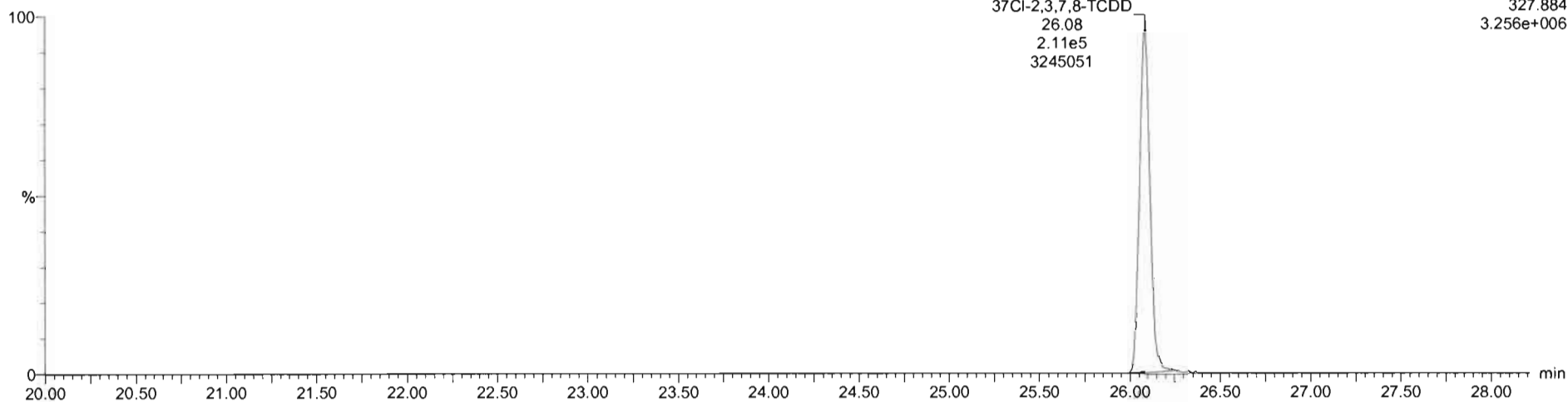
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Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_9, Date: 26-Nov-2020, Time: 03:30:52, ID: 2002374-05 USMPDI-054SC-A-05-06-201029 16.81, Description: USMPDI-054SC-A-05-06-201029

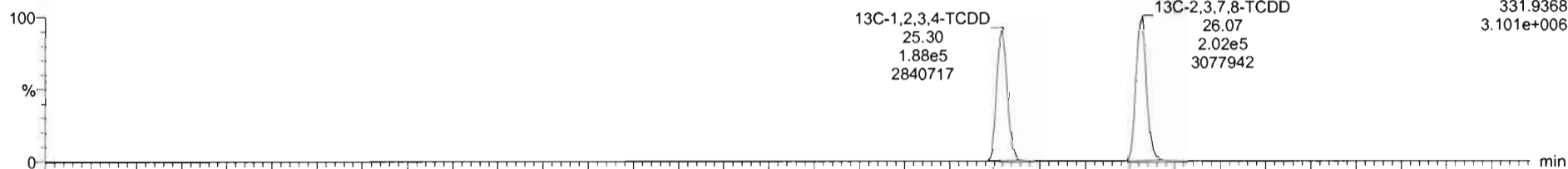
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201125R2_9

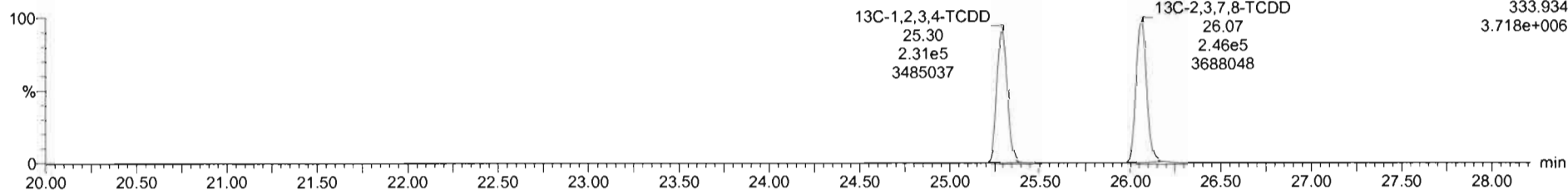


13C-1,2,3,4-TCDD

201125R2_9



201125R2_9



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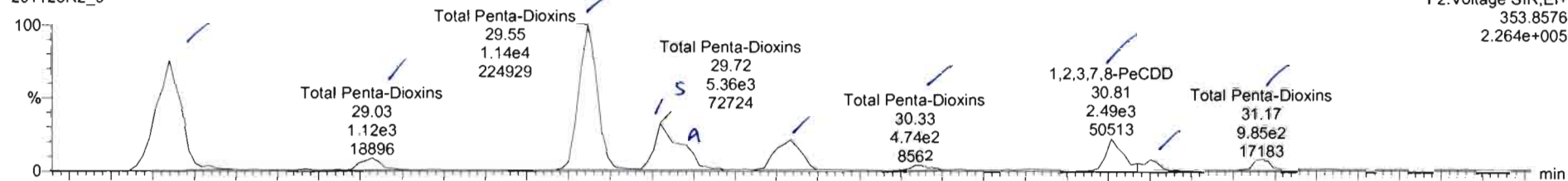
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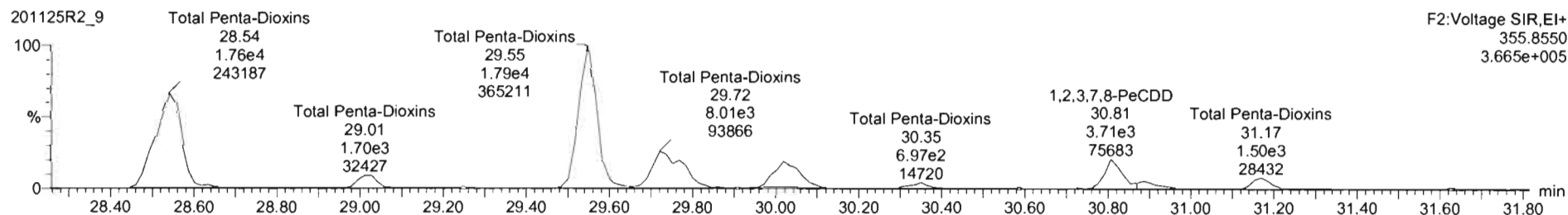
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1,2,3,7,8-PeCDD

201125R2_9



201125R2_9

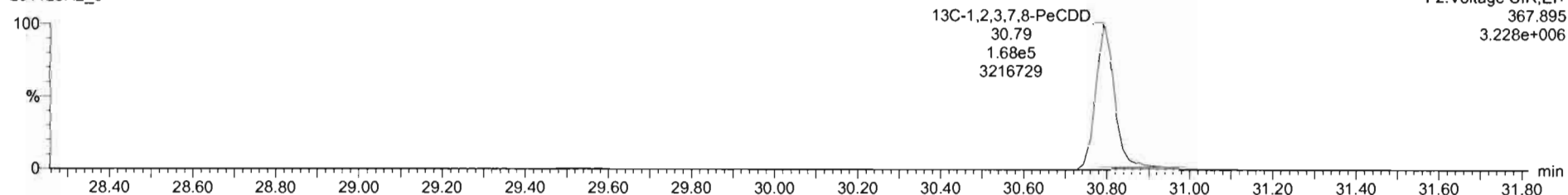


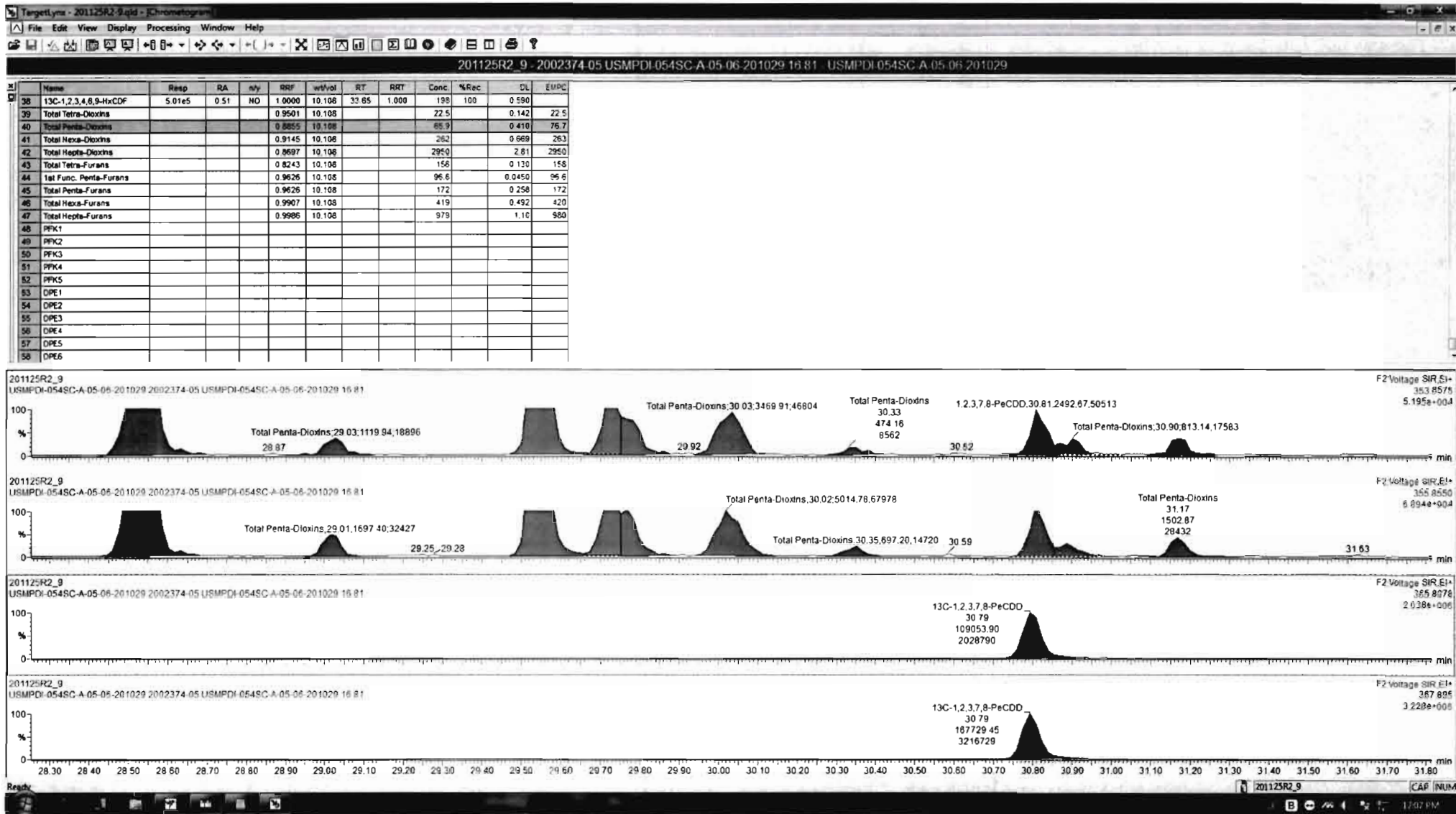
13C-1,2,3,7,8-PeCDD

201125R2_9



201125R2_9



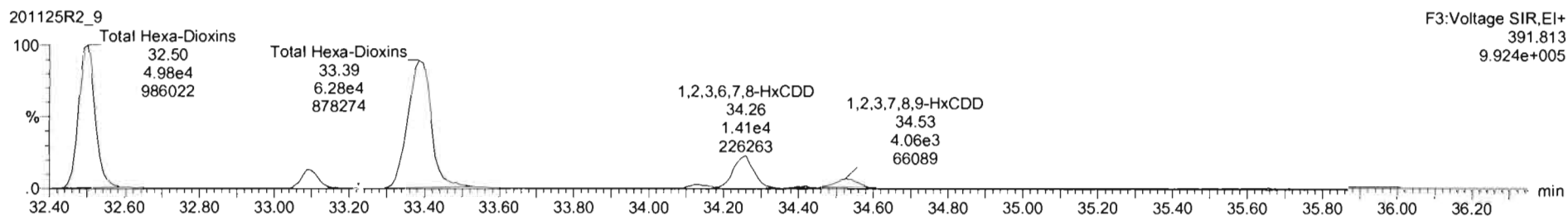
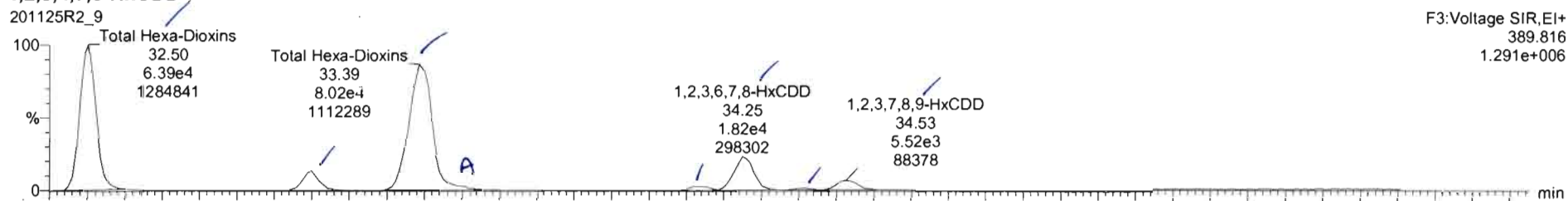


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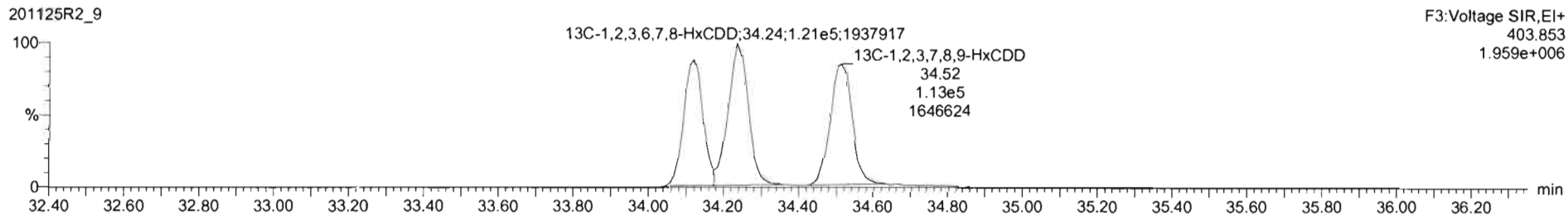
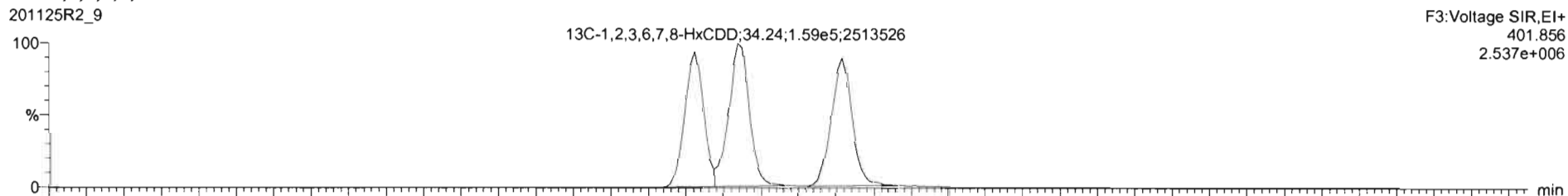
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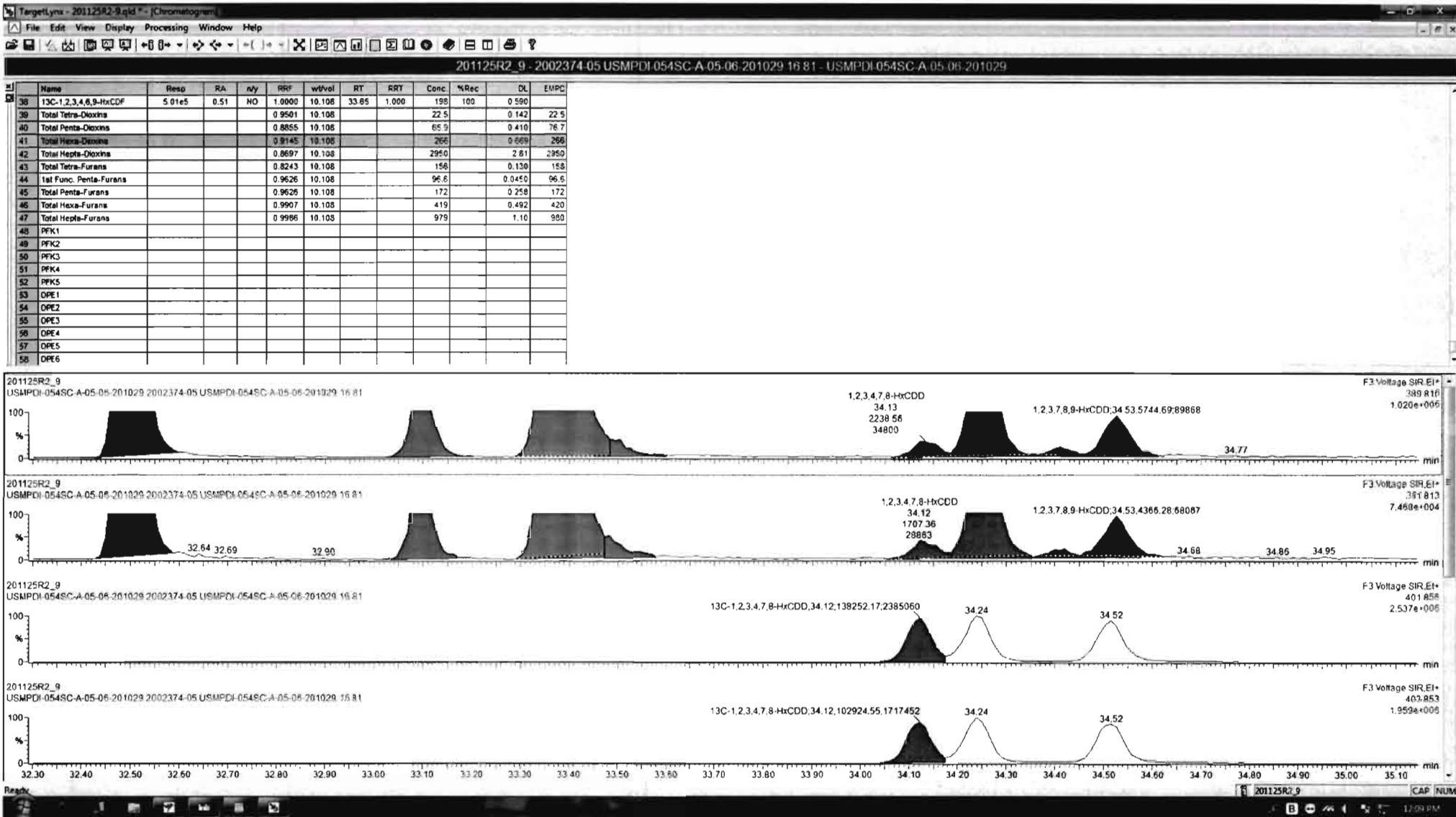
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1,2,3,4,7,8-HxCDD



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





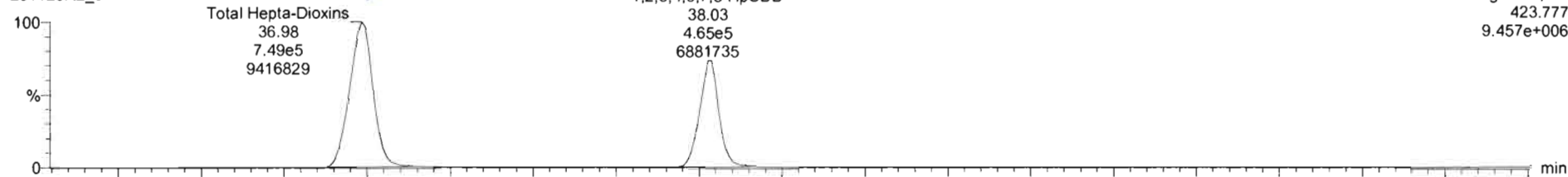
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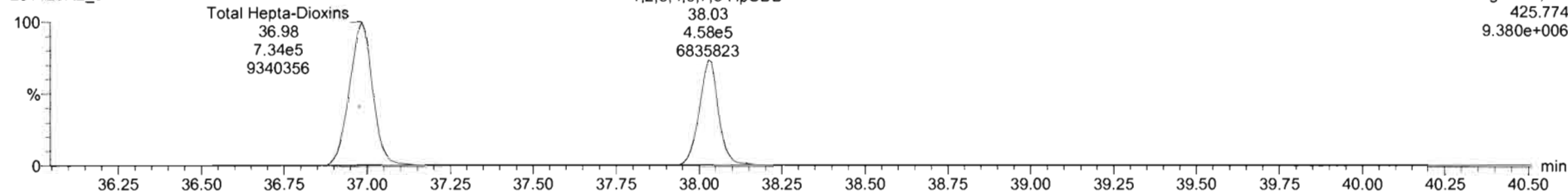
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1,2,3,4,6,7,8-HpCDD

201125R2_9

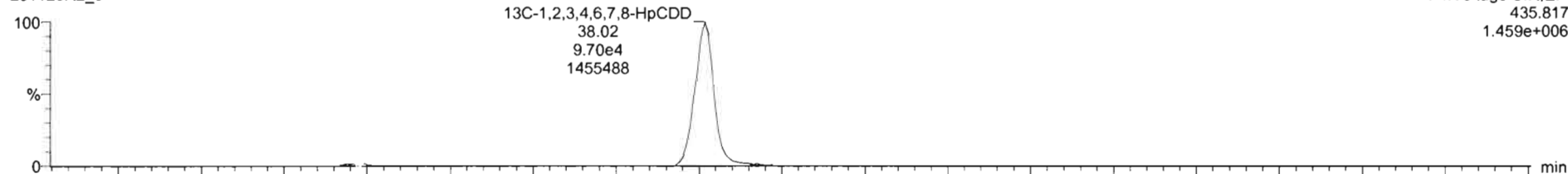


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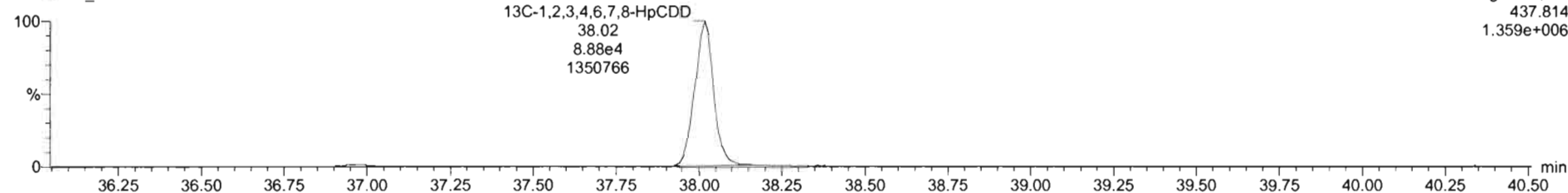


13C-1,2,3,4,6,7,8-HpCDD

201125R2_9



201125R2_9



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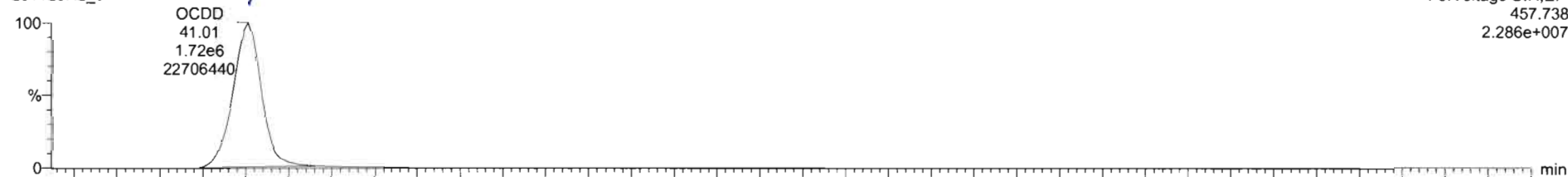
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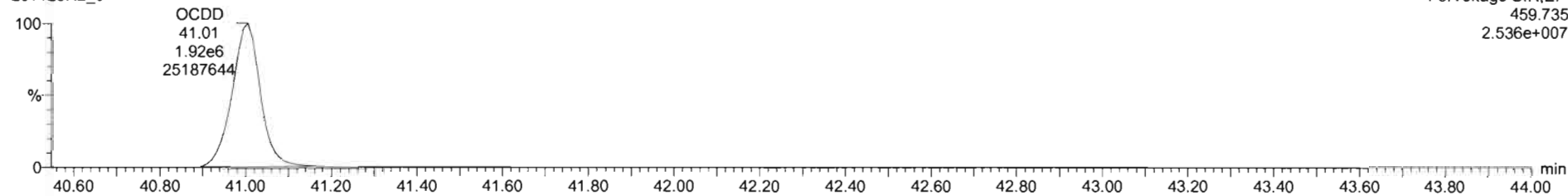
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OCDD

201125R2_9

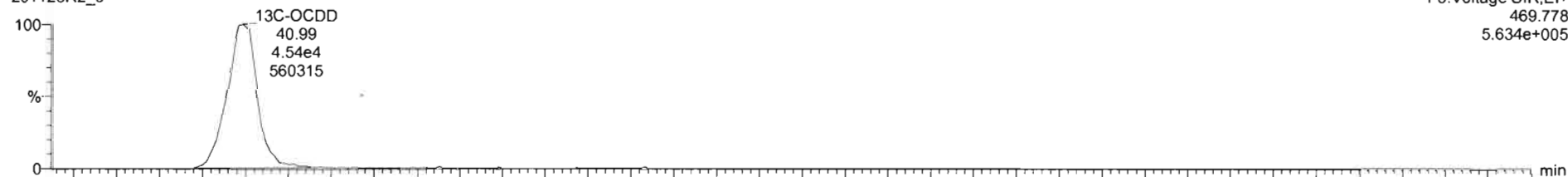


201125R2_9

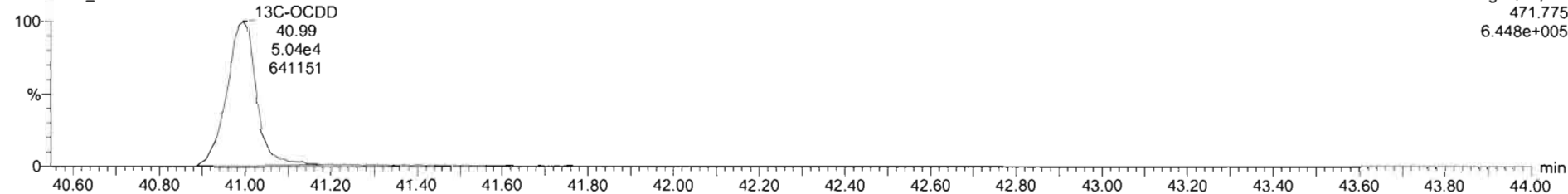


13C-OCDD

201125R2_9



201125R2_9



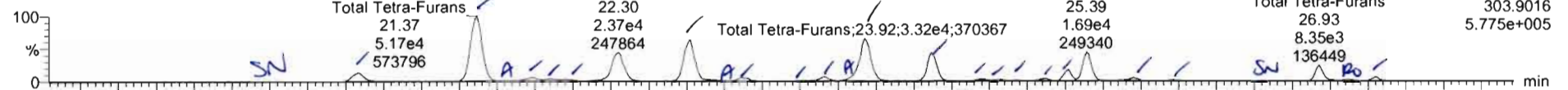
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Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

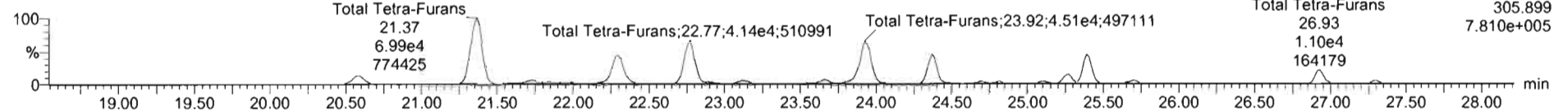
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2,3,7,8-TCDF

201125R2_9

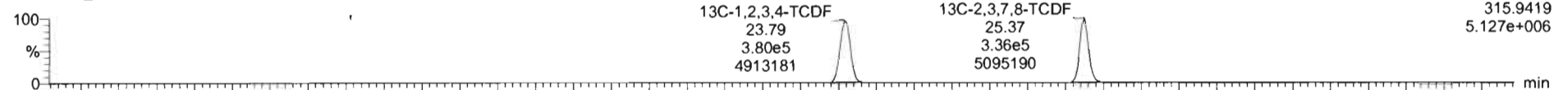


201125R2_9

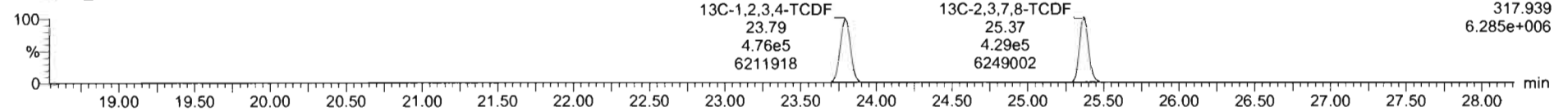


13C-2,3,7,8-TCDF

201125R2_9

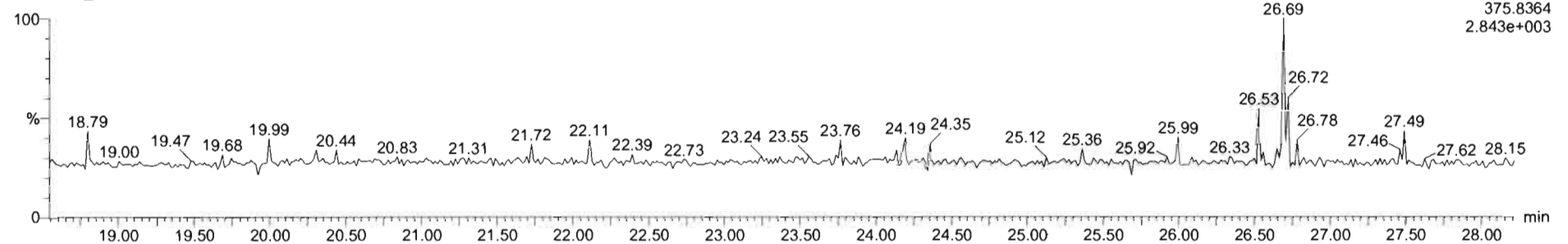


201125R2_9



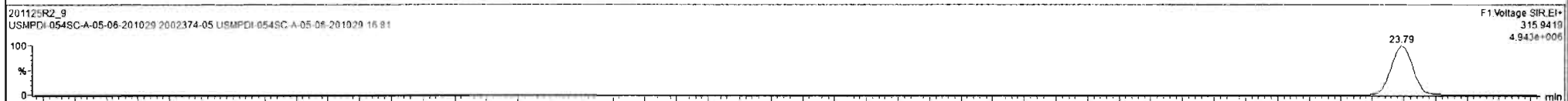
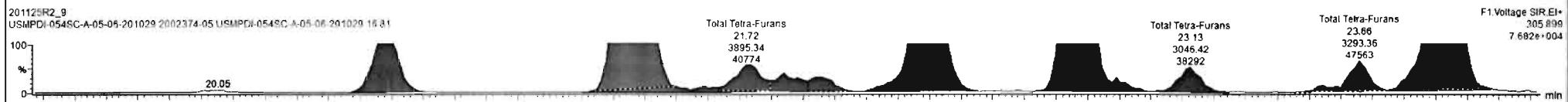
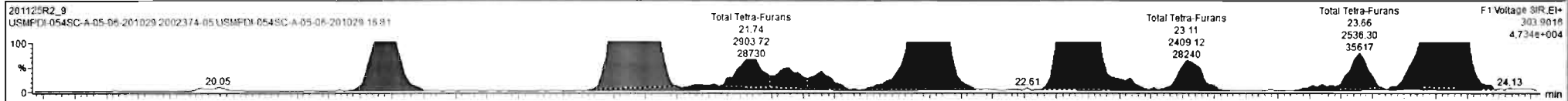
DPE1

201125R2_9



201125R2_9 - 2002374.05 USMPDI.054SC.A 05-06-201029 16:81 - USMPDI.054SC.A 05-06-201029

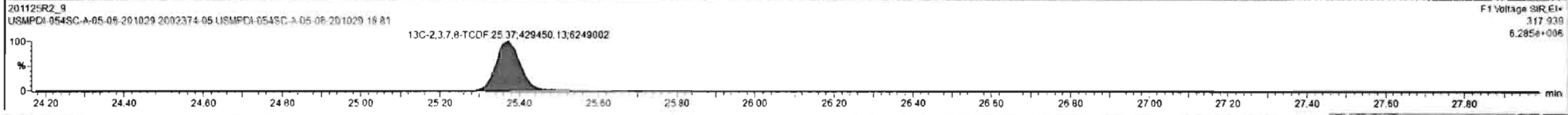
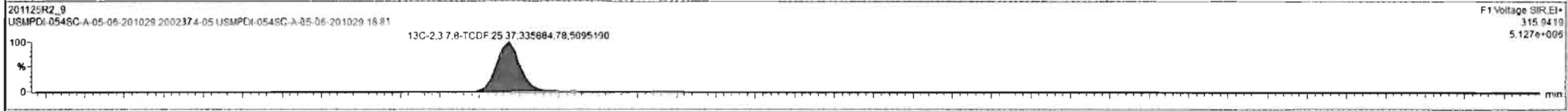
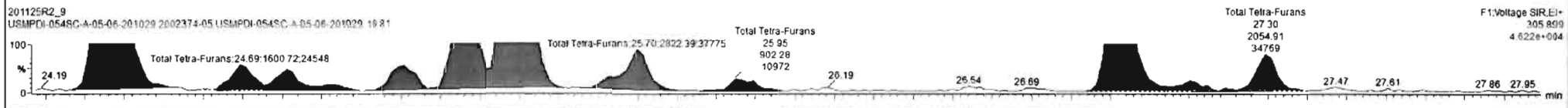
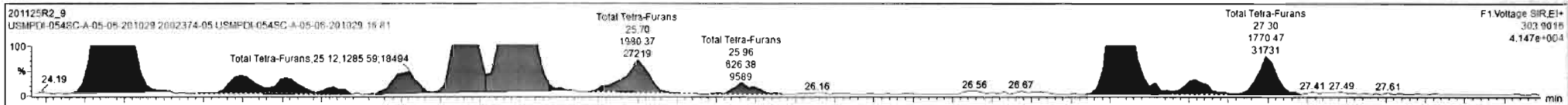
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38 13C-1,2,3,4,6,9-HxCDF	5.01e5	0.51	NO	1.0000	10.106	33.65	1.000	198	100	0.590	
39 Total Tetra-Dioxins				0.9501	10.106			22.5		0.142	22.5
40 Total Penta-Dioxins				0.8855	10.106			65.9		0.410	75.7
41 Total Hexa-Dioxins				0.9145	10.106			266		0.669	266
42 Total Hepta-Dioxins				0.8697	10.106			2950		2.81	2950
43 Total Tetra-Furans				0.8243	10.106			158		0.139	160
44 1st Func. Penta-Furans				0.9626	10.108			96.6		0.0450	96.6
45 Total Penta-Furans				0.9626	10.108			172		0.258	172
46 Total Hexa-Furans				0.9907	10.108			419		0.492	420
47 Total Hepta-Furans				0.9986	10.108			979		1.10	980
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											



TargetLynx - 201125R2_9.qtd - Chromatogram

201125R2_9 - 2002374-05 USMPDI-054SC-A-05-06-201029 16:81 - USMPDI-054SC-A-05-06-201029

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
38 13C-1,2,3,4,6,9-HxCDF	5.01e5	0.51	NO	1.0000	10.108	33.85	1.000	198	100	0.590	
39 Total Tetra-Dioxins				0.9501	10.108			22.5	0.142	22.5	
40 Total Penta-Dioxins				0.8855	10.108			65.9	0.410	76.7	
41 Total Hexa-Dioxins				0.9145	10.108			266	0.669	266	
42 Total Hepta-Dioxins				0.8697	10.108			2950	2.81	2950	
43 Total Tetra-Furans				0.8243	10.108			159	0.130	160	
44 1st Func. Penta-Furans				0.9626	10.108			96.8	0.0450	96.8	
45 Total Penta-Furans				0.9626	10.108			172	0.258	172	
46 Total Hexa-Furans				0.9907	10.108			419	0.492	420	
47 Total Hepta-Furans				0.9996	10.108			979	1.10	980	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											



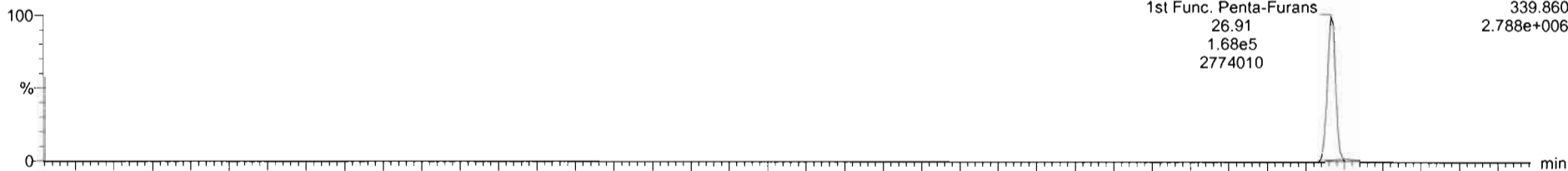
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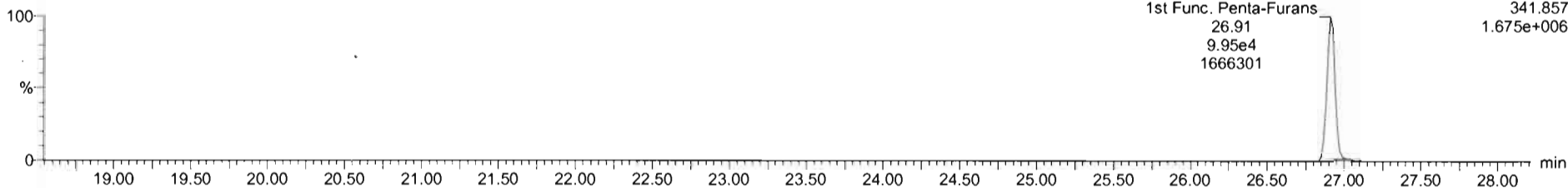
Name: 201125R2_9, Date: 26-Nov-2020, Time: 03:30:52, ID: 2002374-05 USMPDI-054SC-A-05-06-201029 16.81, Description: USMPDI-054SC-A-05-06-201029

1st Func. Penta-Furans

201125R2_9

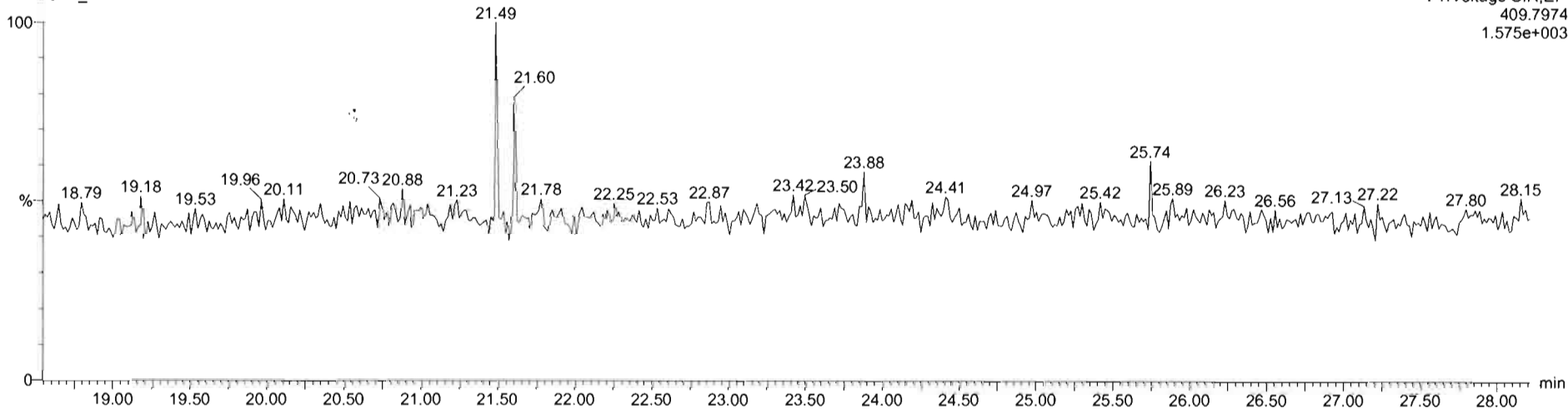


201125R2_9



DPE6

201125R2_9

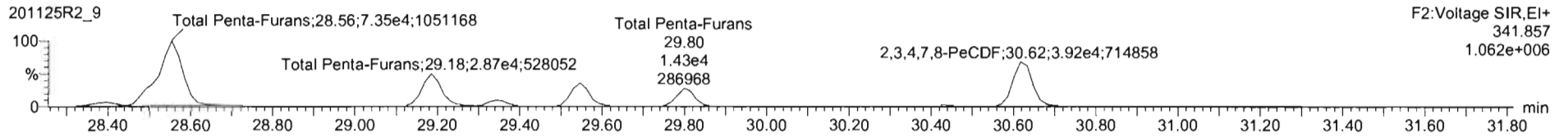
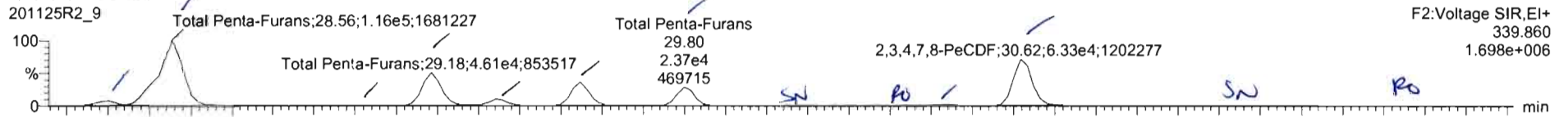


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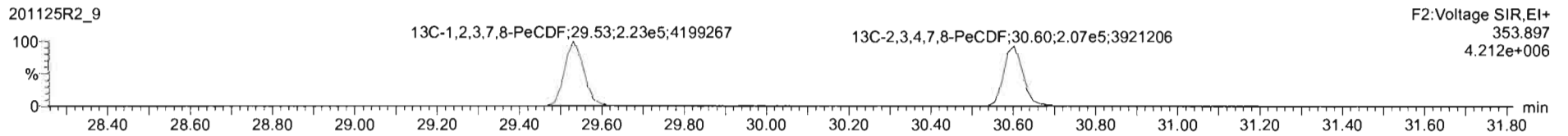
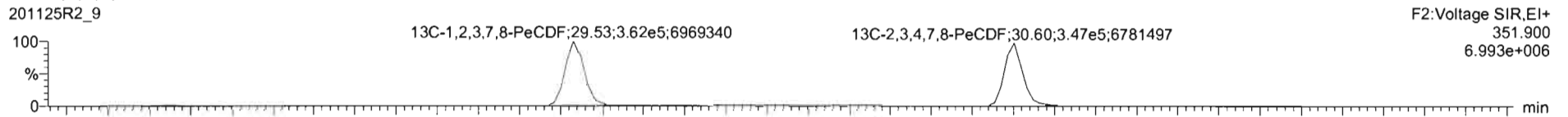
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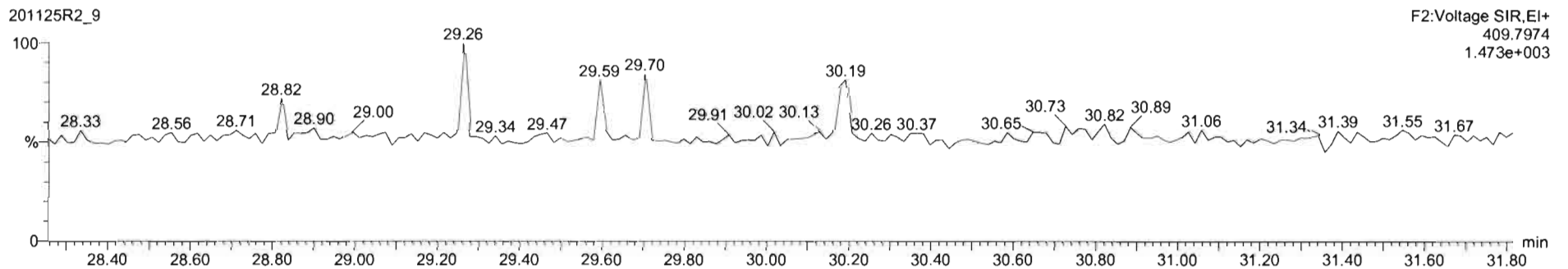
1,2,3,7,8-PeCDF

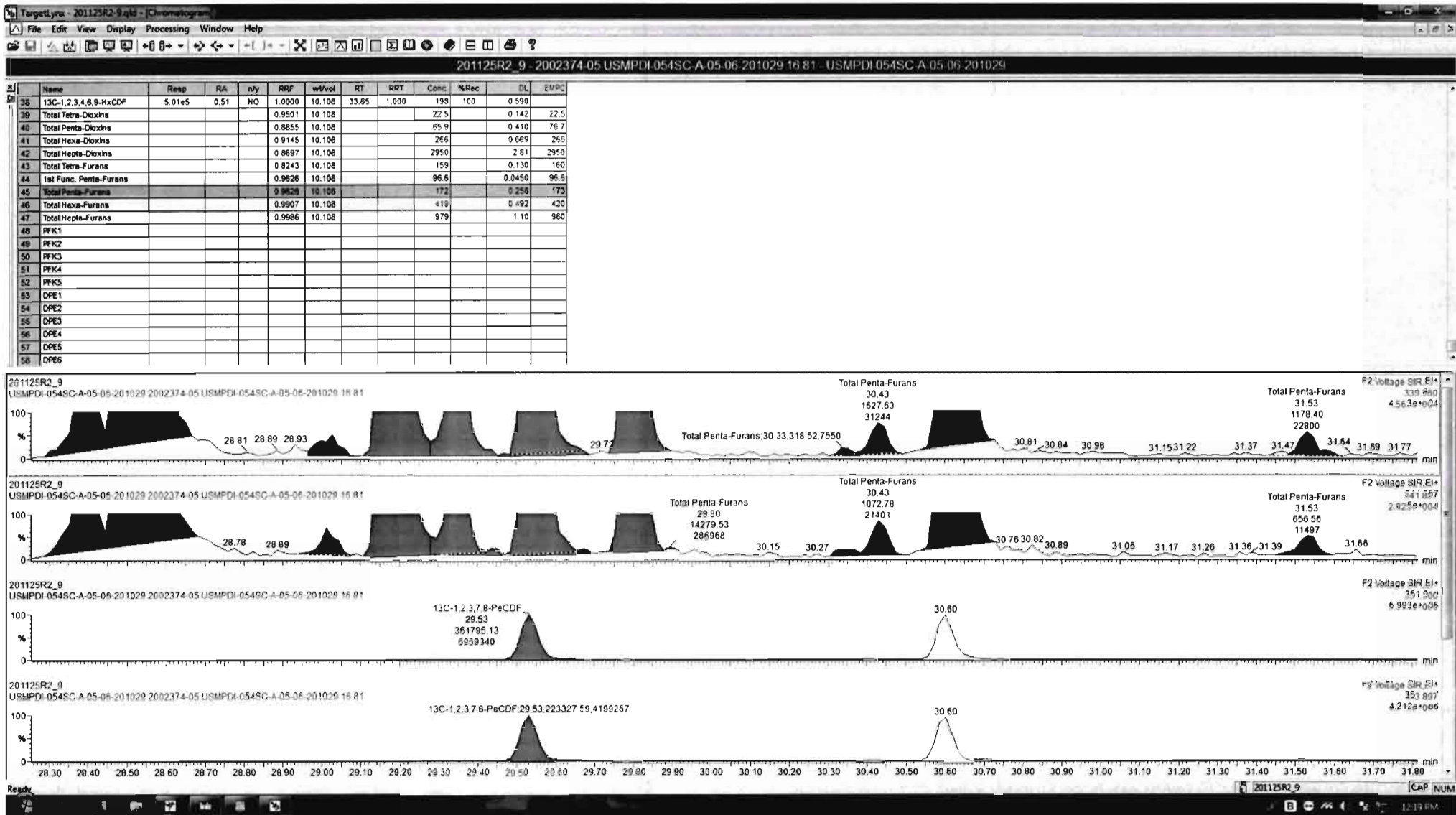


13C-1,2,3,7,8-PeCDF



DPE2



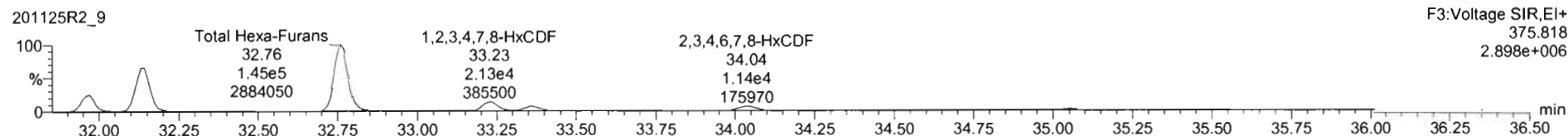
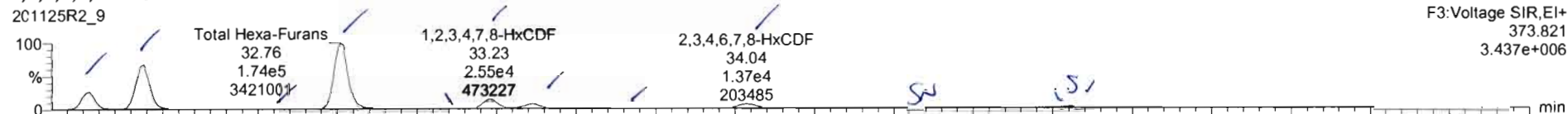


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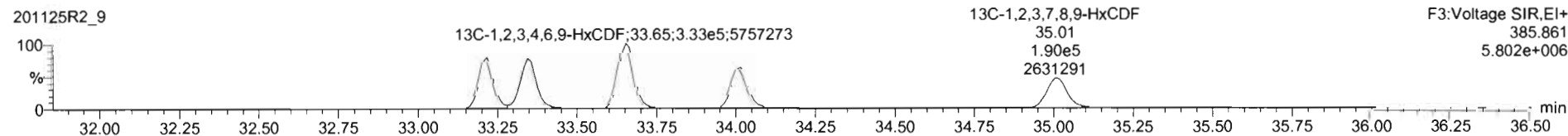
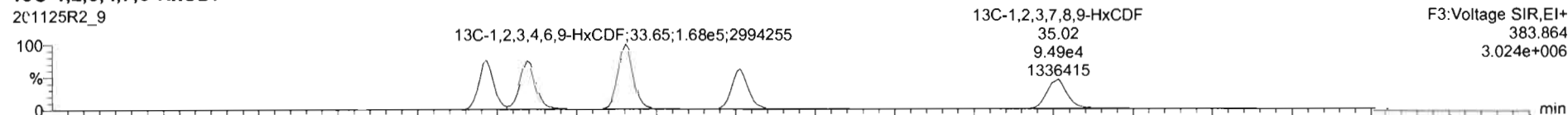
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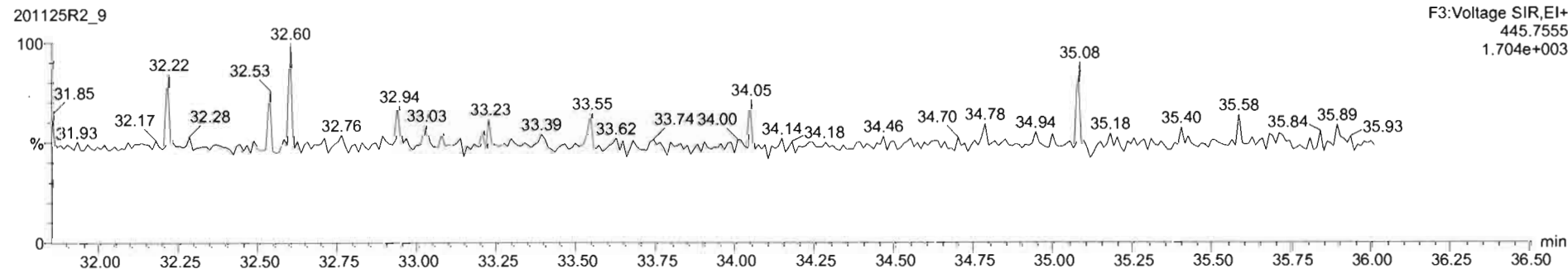
1,2,3,4,7,8-HxCDF

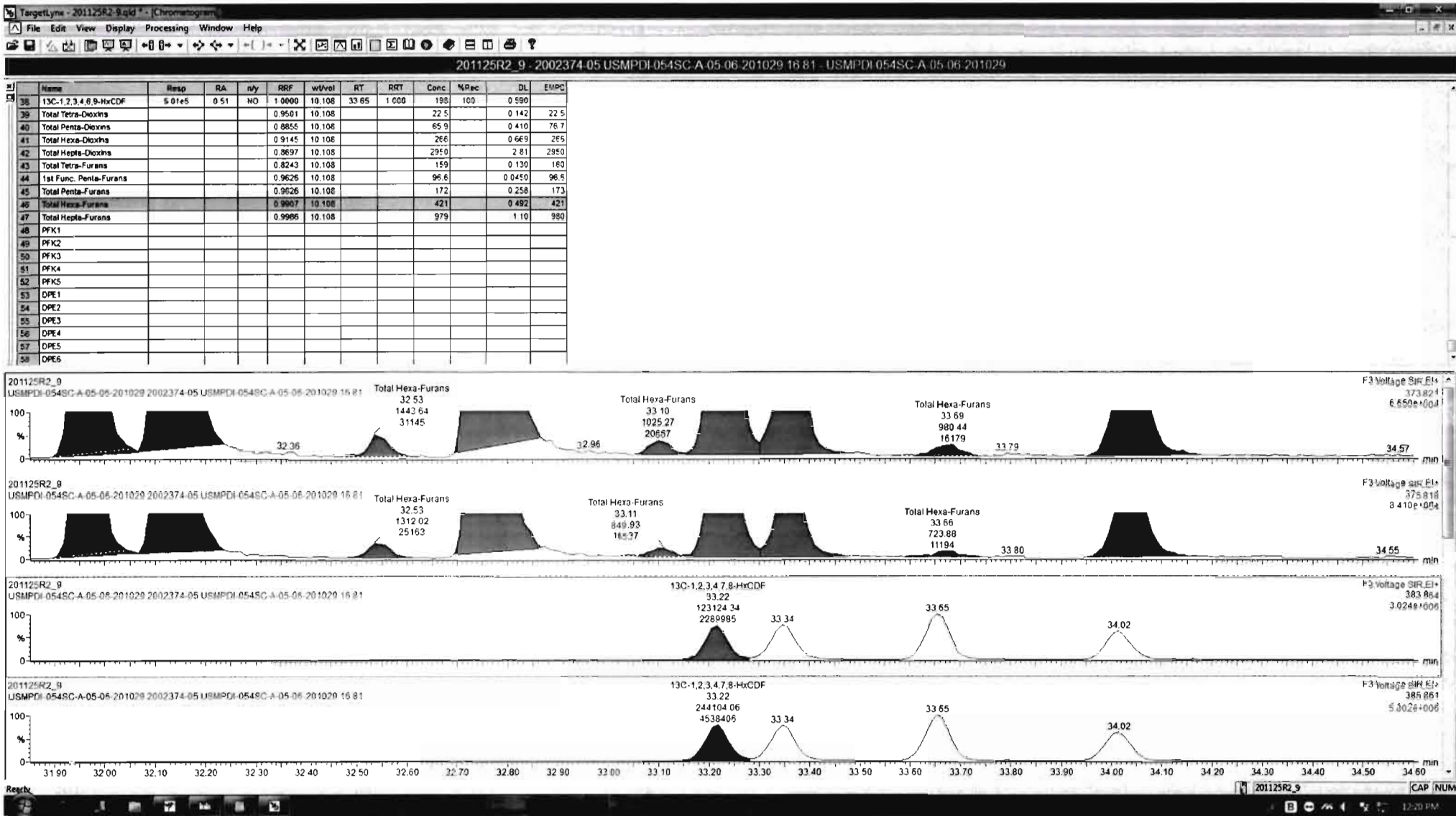


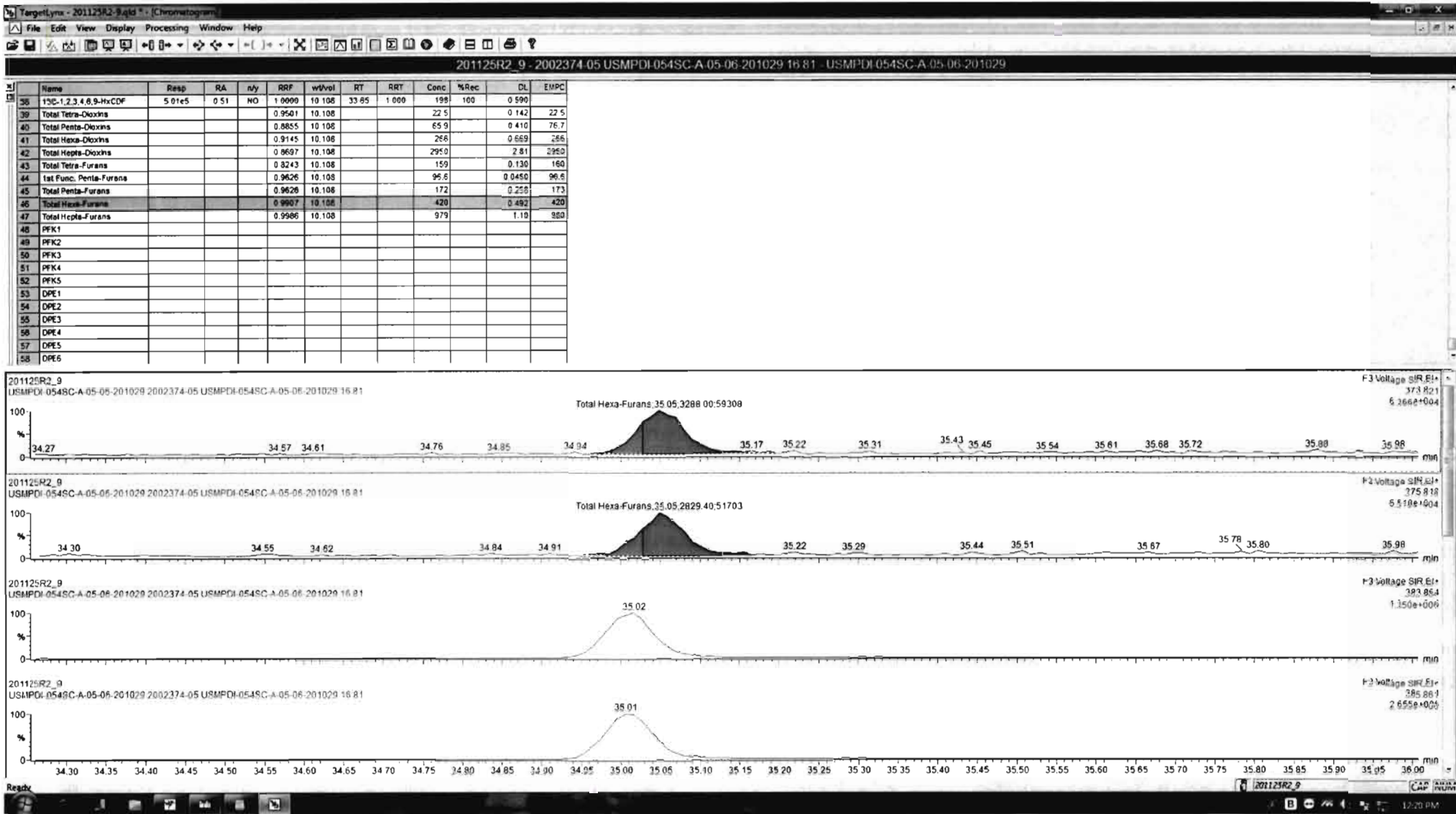
13C-1,2,3,4,7,8-HxCDF



DPE3





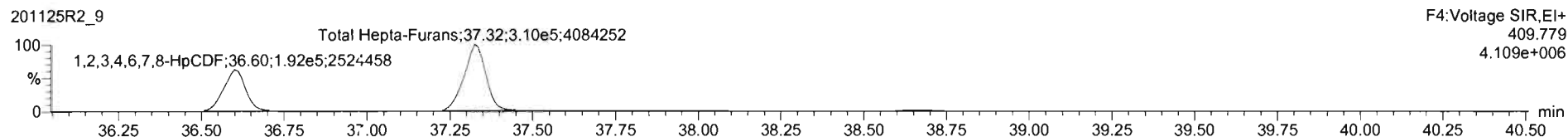
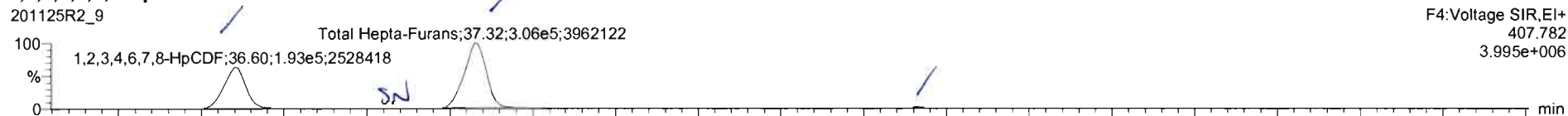


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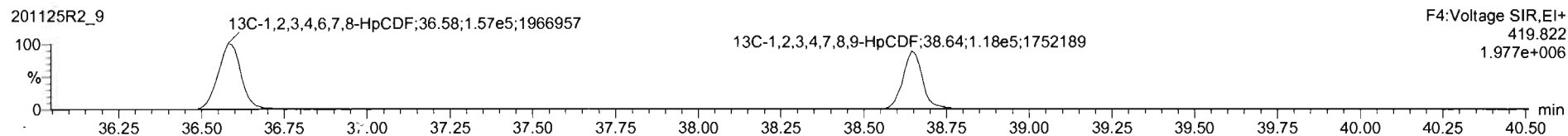
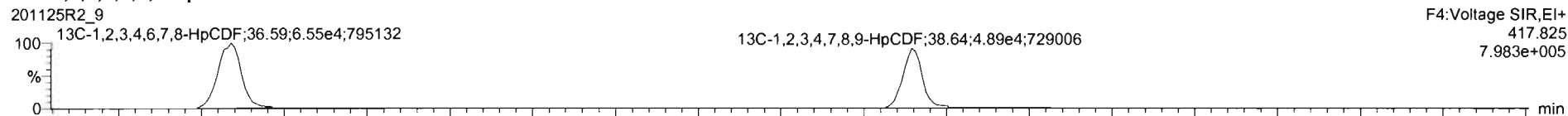
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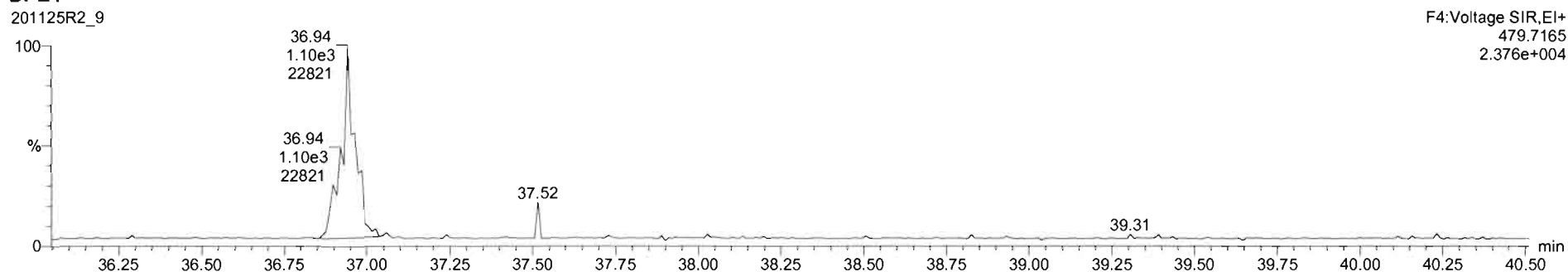
1,2,3,4,6,7,8-HpCDF

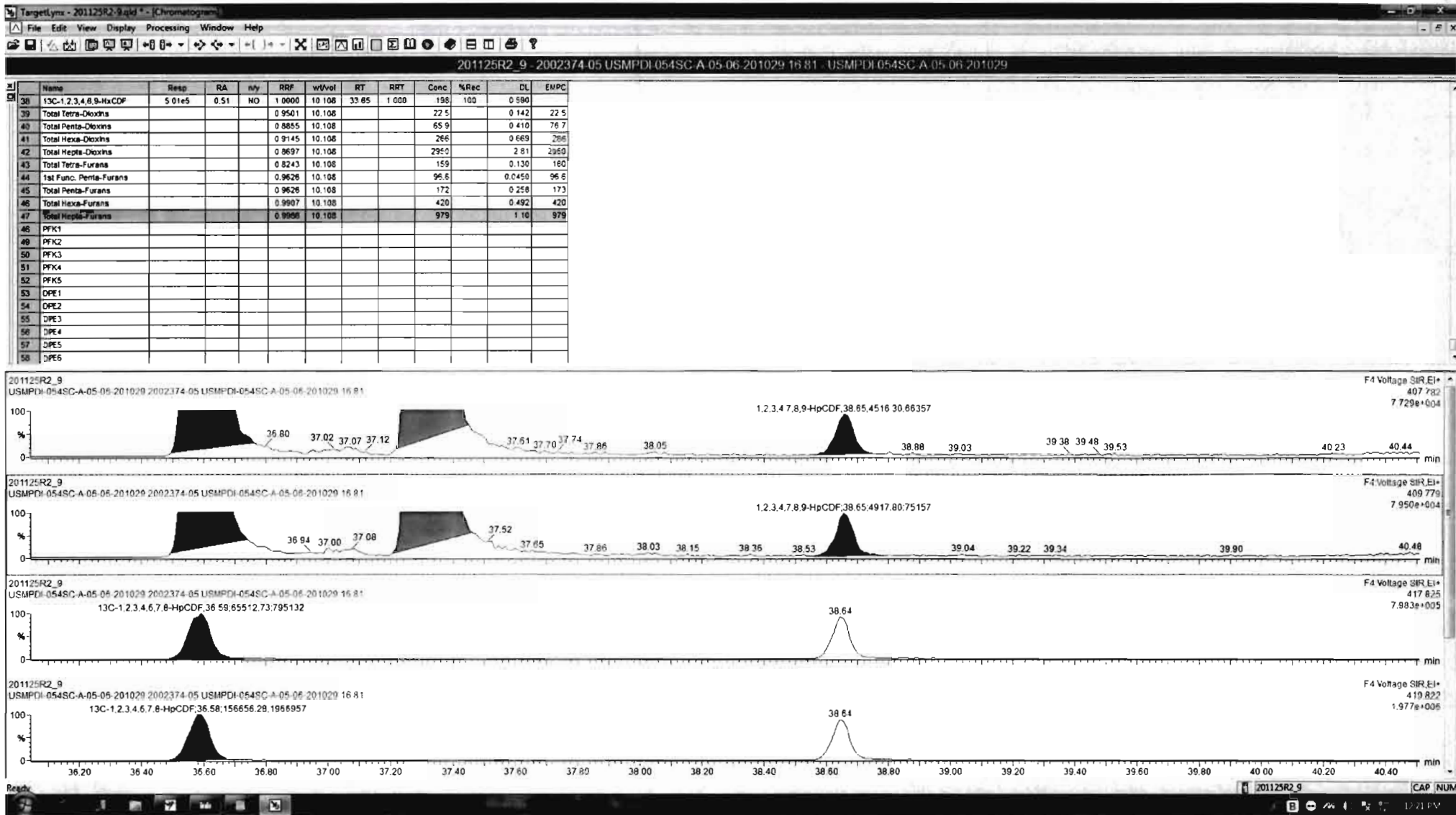


13C-1,2,3,4,6,7,8-HpCDF



DPE4





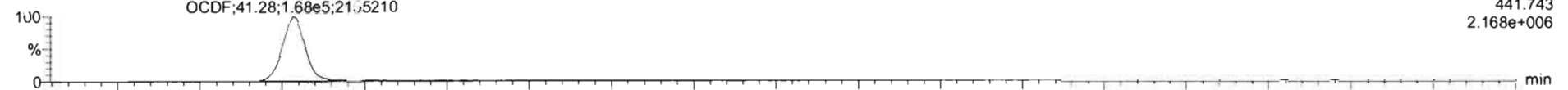
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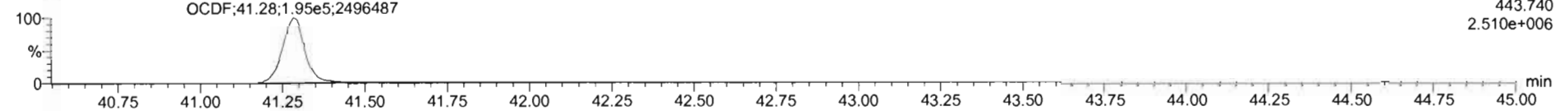
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OCDF

201125R2_9



201125R2_9

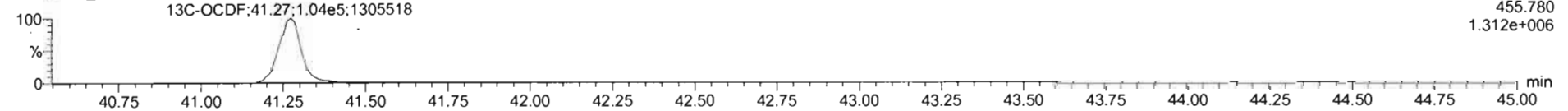


13C-OCDF

201125R2_9

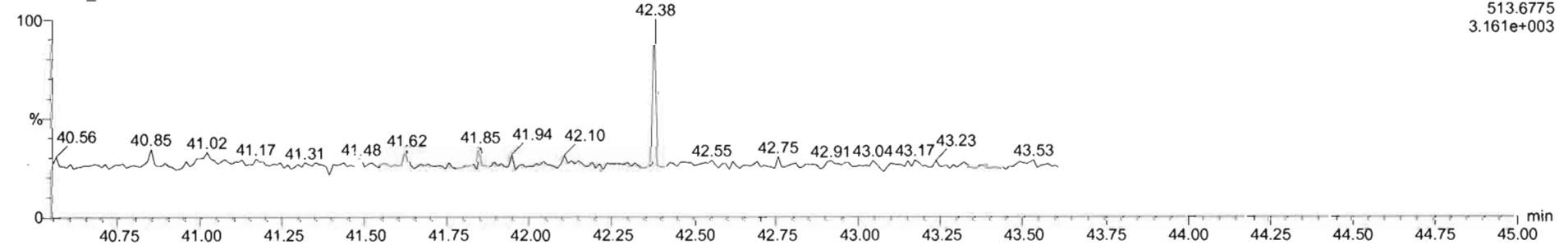


201125R2_9



DPE5

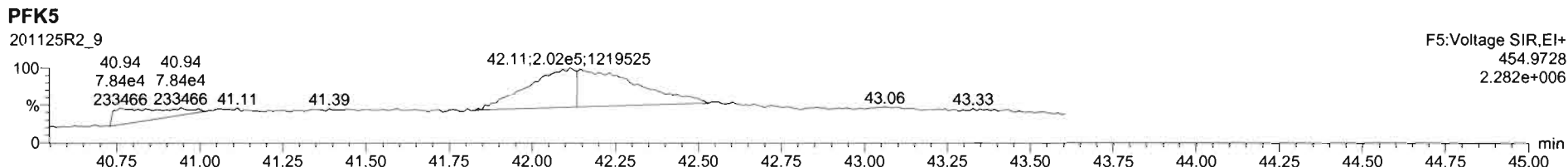
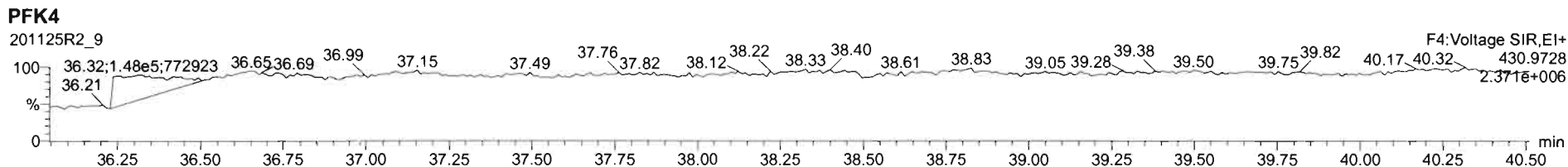
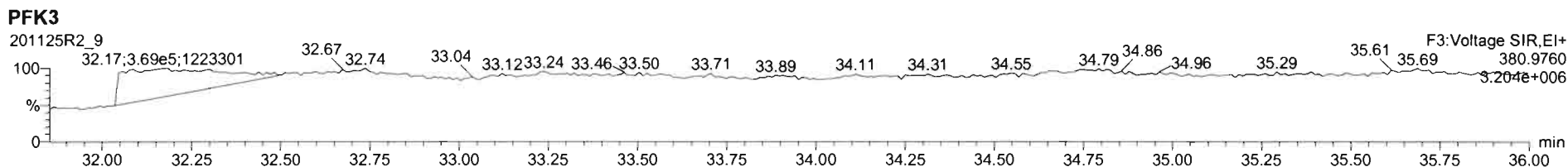
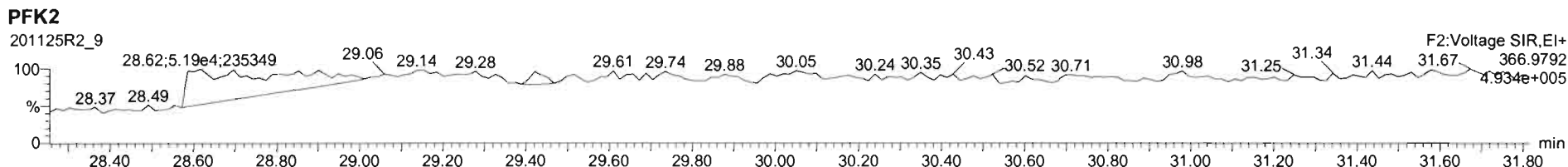
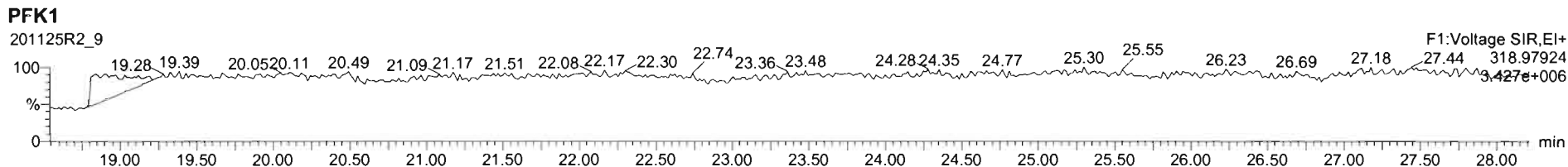
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Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_9, Date: 26-Nov-2020, Time: 03:30:52, ID: 2002374-05 USMPDI-054SC-A-05-06-201029 16.81, Description: USMPDI-054SC-A-05-06-201029



Dataset: U:\VG12.PRO\Results\201126R1\201126R1-15.qld

Last Altered: Tuesday, December 01, 2020 12:27:57 PM Pacific Standard Time

Printed: Tuesday, December 01, 2020 12:28:27 PM Pacific Standard Time

GRB 12/01/2020

CT 12/04/2020

Method: Untitled 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201126R1_15, Date: 26-Nov-2020, Time: 19:04:52, ID: 2002374-05@10X USMPDI-054SC-A-05-06-201029 16.81, Description: USMPDI-054SC-A-05-06-201029

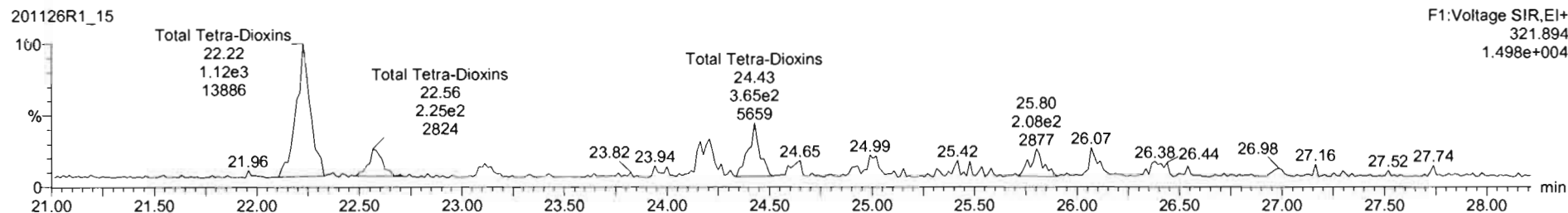
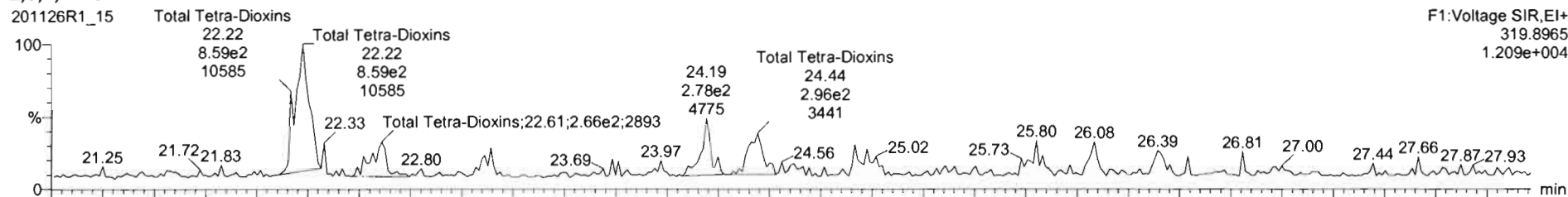
#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	7 OCDD	3.33e5	0.89	NO	0.872	10.108	41.006	40.99	1.000	1.000	16029		39.9	16000
2	24 13C-OCDD	9.42e3	0.85	NO	0.539	10.108	40.962	41.01	1.217	1.218	74.270	18.8	5.33	
3	35 37Cl-2,3,7,8-TCDD	2.02e4			1.09	10.108	26.044	26.08	1.030	1.032	81.141	103	0.504	
4	36 13C-1,2,3,4-TCDD	4.52e4	0.86	NO	1.00	10.108	25.270	25.28	1.000	1.000	197.86	100	2.26	
5	37 13C-1,2,3,4-TCDF	9.05e4	0.78	NO	1.00	10.108	23.870	23.78	1.000	1.000	197.86	100	2.94	
6	38 13C-1,2,3,4,6,9-HxCDF	4.65e4	0.50	NO	1.00	10.108	33.710	33.66	1.000	1.000	197.86	100	5.04	

Dataset: Untitled

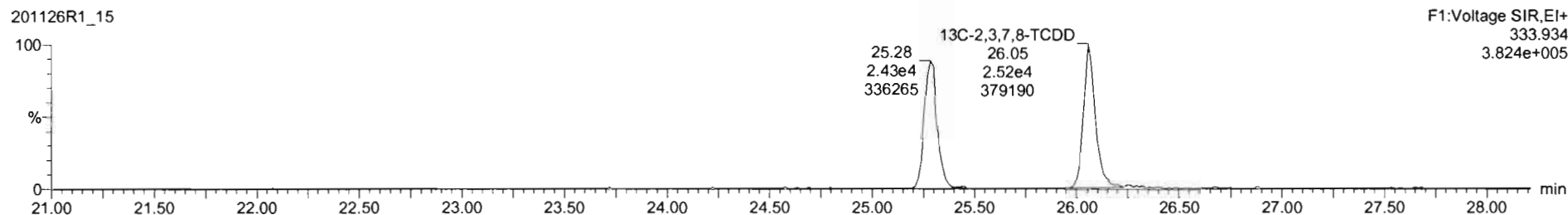
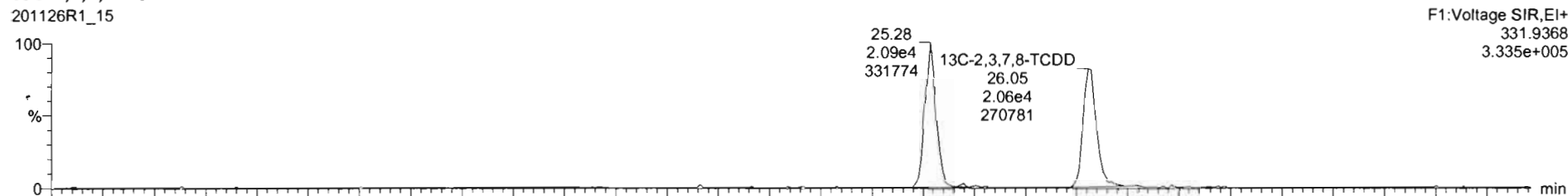
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Name: 201126R1_15, Date: 26-Nov-2020, Time: 19:04:52, ID: 2002374-05@10X USMPDI-054SC-A-05-06-201029 16.81, Description: USMPDI-054SC-A-05-06-201029

2,3,7,8-TCDD



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



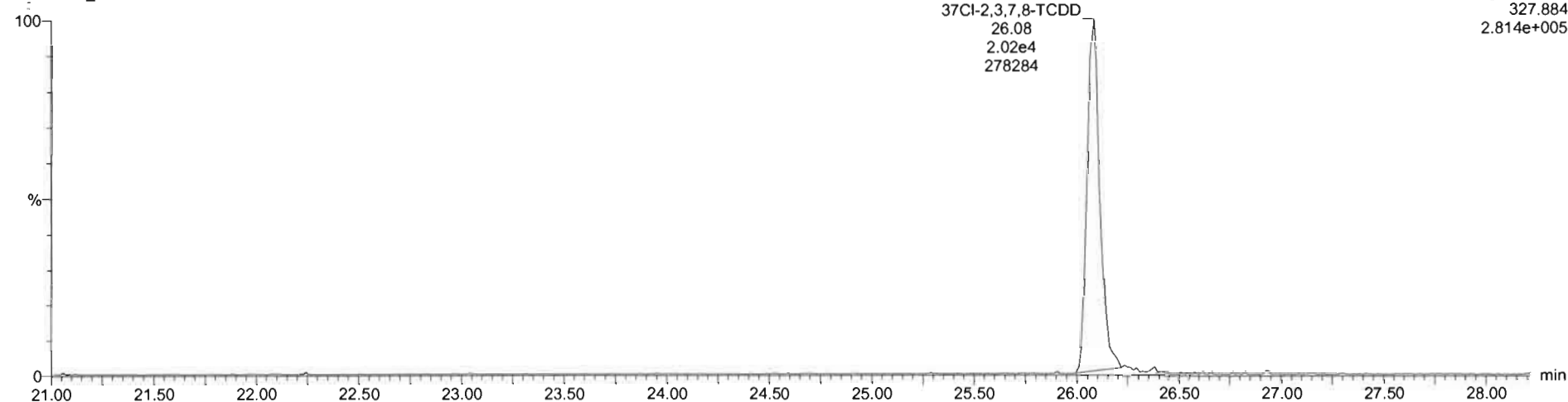
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Name: 201126R1_15, Date: 26-Nov-2020, Time: 19:04:52, ID: 2002374-05@10X USMPDI-054SC-A-05-06-201029 16.81, Description: USMPDI-054SC-A-05-06-201029

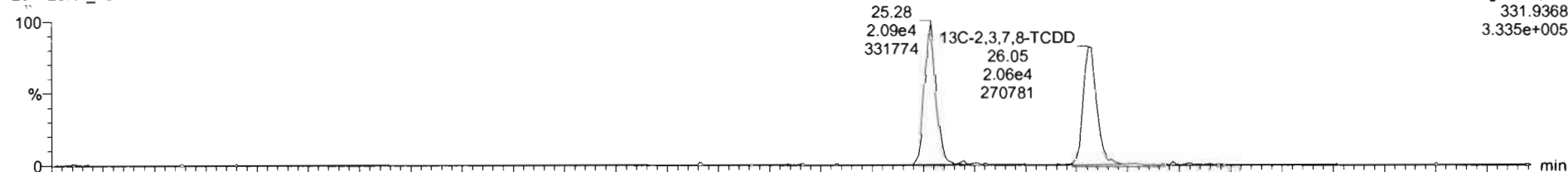
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201126R1_15

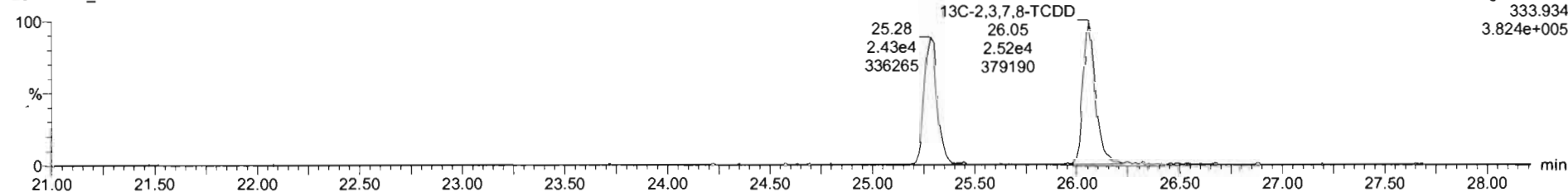


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201126R1_15



201126R1_15

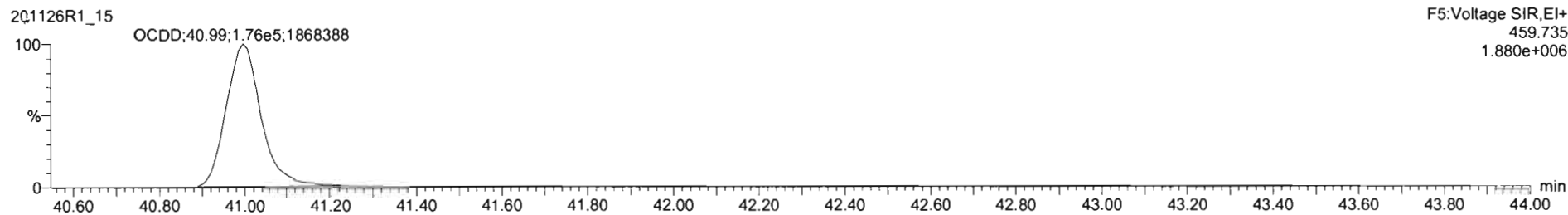
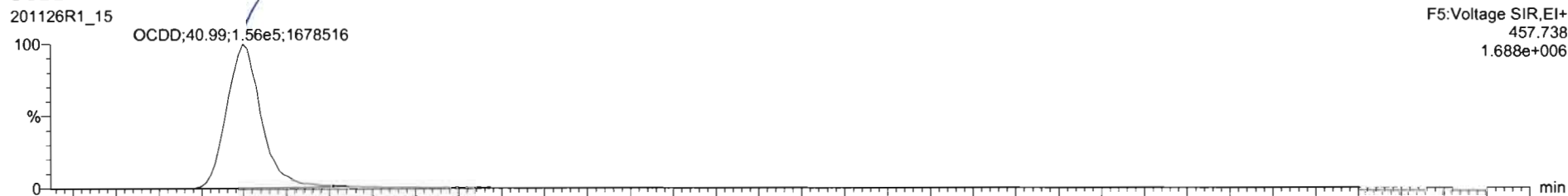


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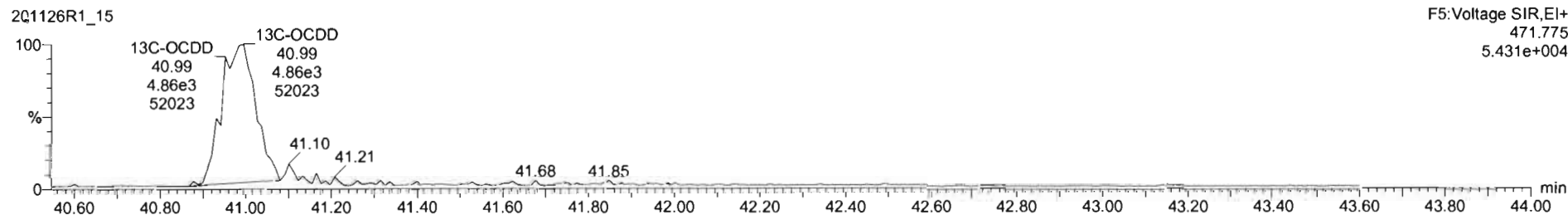
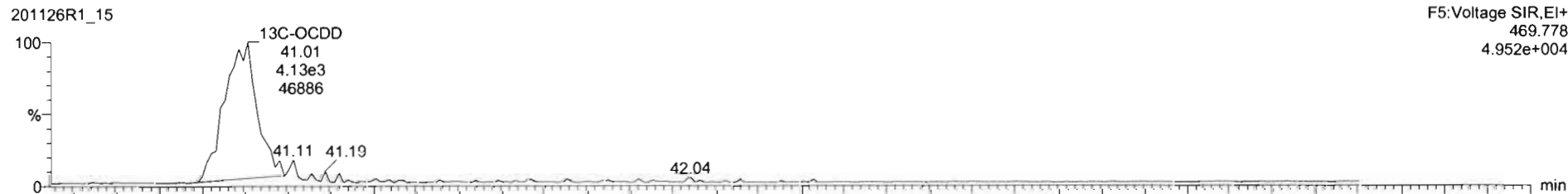
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Name: 201126R1_15, Date: 26-Nov-2020, Time: 19:04:52, ID: 2002374-05@10X USMPDI-054SC-A-05-06-201029 16.81, Description: USMPDI-054SC-A-05-06-201029

OCDD



13C-OCDD

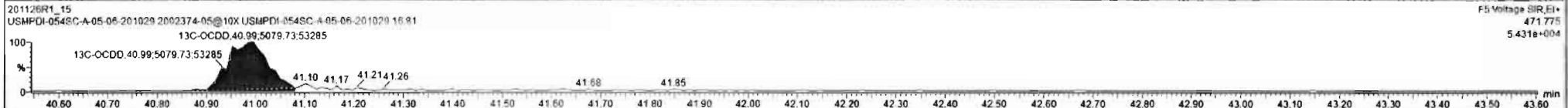
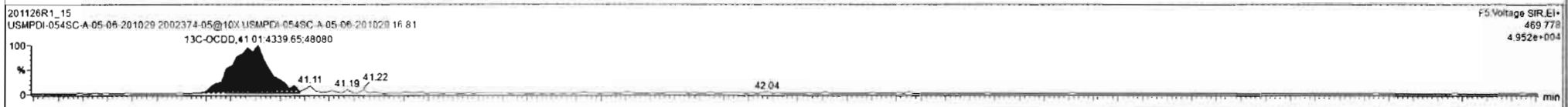
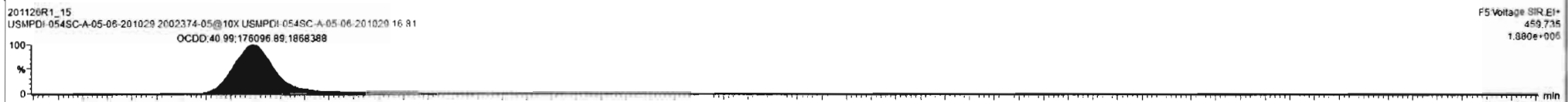
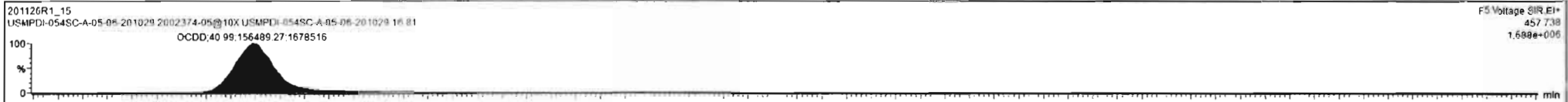


TargetLynx - 201126R1_15.qld - Chromatogram

File Edit View Display Processing Window Help

201126R1_15 - 2002374_05@10X USMPDI 054SC A 05 06 201029 16 81 - USMPDI 054SC A 05 06 201029

#	Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EUPC
1	2,3,7,8-TCDD			NO	0.9501	10.108					1.21	
2	1,2,3,7,8-PeCDD	8.31e2	0.32	YES	0.8855	10.108	30.82	1.001	6.78		4.33	4.30
3	1,2,3,4,7,8-HxCDD			NO	1.0176	10.108					2.72	
4	1,2,3,6,7,8-HxCDD	2.85e3	1.34	NO	0.9145	10.108	34.25	1.000	21.8		3.00	21.8
5	1,2,3,7,8,9-HxCDD	9.30e2	1.12	NO	0.9345	10.108	34.53	1.000	8.28		3.87	8.28
6	1,2,3,4,6,7,8-HpCDD	8.09e4	0.99	NO	0.8697	10.108	38.03	1.000	1100		13.2	1100
7	OCDD	3.23e5	0.89	NO	0.8717	10.108	40.99	1.000	16000		39.9	16000
8	2,3,7,8-TCDF	3.84e3	0.88	NO	0.8243	10.108	25.39	1.001	12.1		1.08	12.1
9	1,2,3,7,8-PeCDF	4.90e3	1.59	NO	0.9626	10.108	29.55	1.001	17.1		2.07	17.1
10	2,3,4,7,8-PeCDF	9.97e3	1.88	NO	1.0684	10.108	30.62	1.001	33.9		2.12	33.9
11	1,2,3,4,7,8-HxCDF	4.21e3	1.31	NO	0.9535	10.108	33.24	1.000	25.6		2.14	25.6
12	1,2,3,6,7,8-HxCDF	2.17e3	1.02	YES	1.0080	10.108	33.37	1.001	11.5		1.87	10.5
13	2,3,4,6,7,8-HxCDF	2.36e3	1.23	NO	0.9907	10.108	34.05	1.000	15.2		2.60	15.2
14	1,2,3,7,8,9-HxCDF			NO	0.9506	10.108					3.80	
15	1,2,3,4,6,7,8-HpCDF	3.42e4	0.98	NO	0.9988	10.108	36.60	1.000	318		4.94	318
16	1,2,3,4,7,8,9-HpCDF	1.07e3	0.93	NO	1.1238	10.108	38.69	1.001	12.6		5.99	12.6
17	OCDF	3.09e4	0.84	NO	0.8662	10.108	41.27	1.000	823		8.70	823
18	13C-2,3,7,8-TCDD	4.58e4	0.82	NO	1.1089	10.108	26.05	1.000	181	91.4	2.04	
19	13C-1,2,3,7,8-PeCDD	2.74e4	0.64	NO	0.8585	10.108	30.79	1.218	140	70.6	2.28	
20	13C-1,2,3,4,7,8-HxCDD	2.30e4	1.28	NO	0.6997	10.108	34.12	1.014	140	70.5	4.30	
21	13C-1,2,3,6,7,8-HxCDD	2.82e4	1.37	NO	0.8327	10.108	34.24	1.017	144	72.8	3.62	

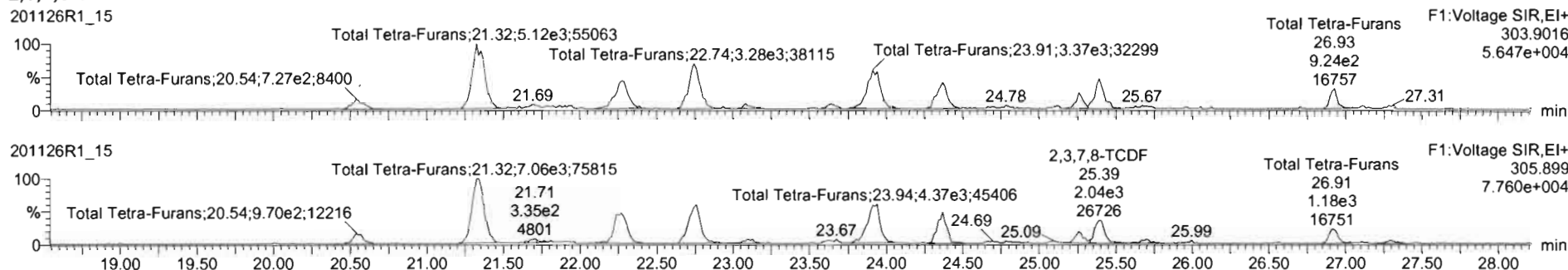


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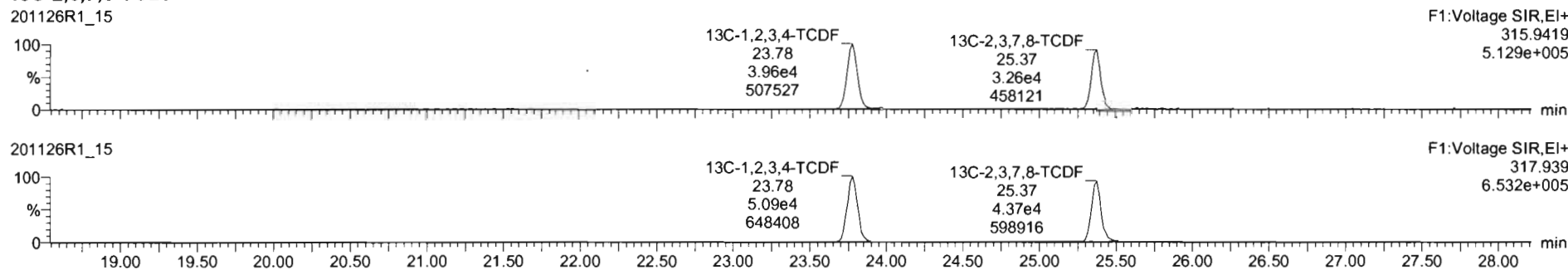
Last Altered: Friday, November 27, 2020 10:23:33 Pacific Standard Time
Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

Name: 201126R1_15, Date: 26-Nov-2020, Time: 19:04:52, ID: 2002374-05@10X USMPDI-054SC-A-05-06-201029 16.81, Description: USMPDI-054SC-A-05-06-201029

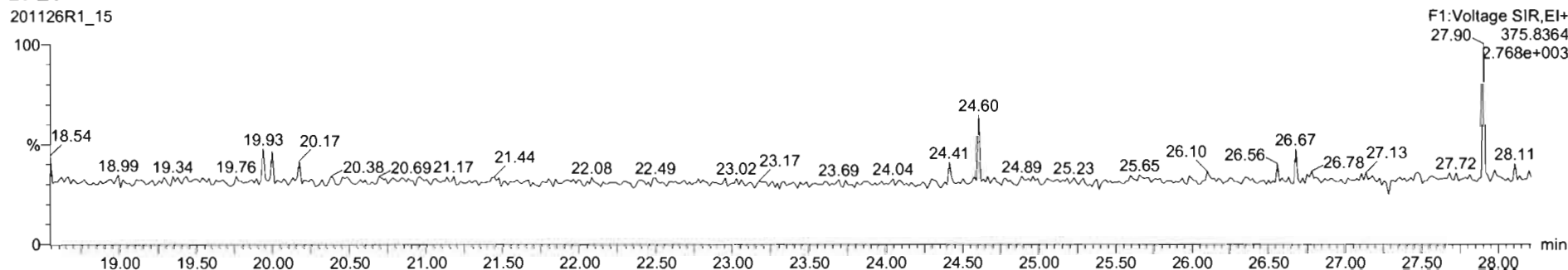
2,3,7,8-TCDF



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



DPE1

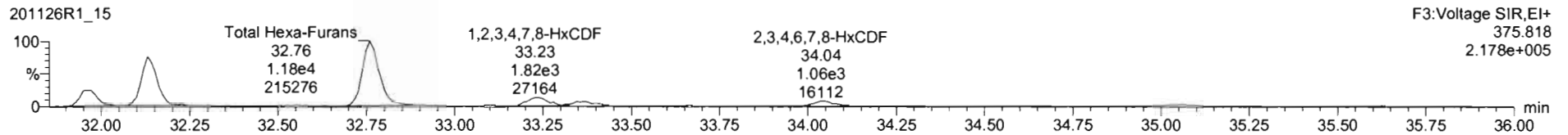
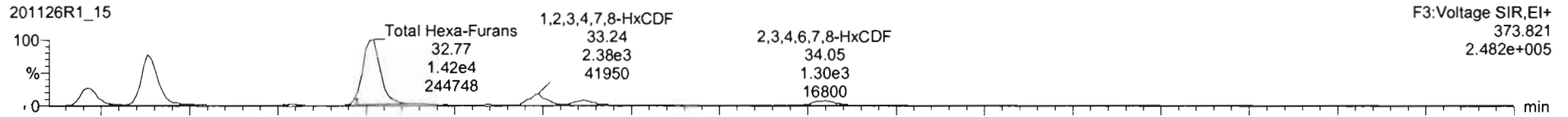


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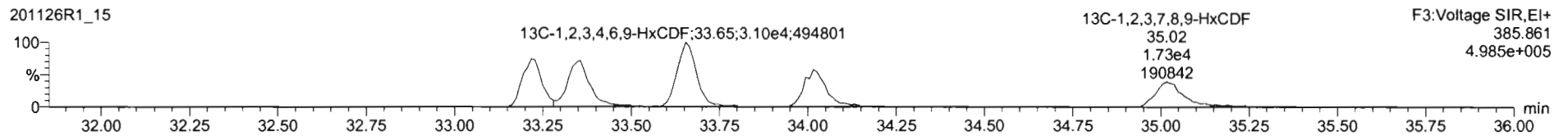
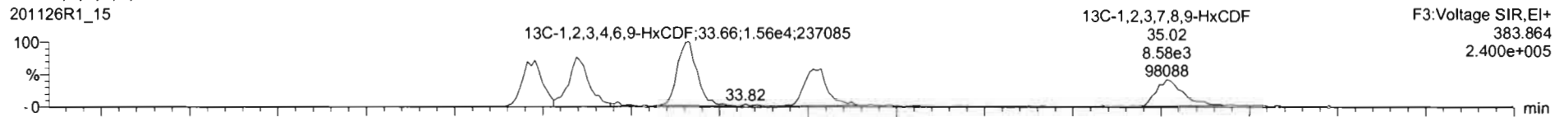
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Name: 201126R1_15, Date: 26-Nov-2020, Time: 19:04:52, ID: 2002374-05@10X USMPDI-054SC-A-05-06-201029 16.81, Description: USMPDI-054SC-A-05-06-201029

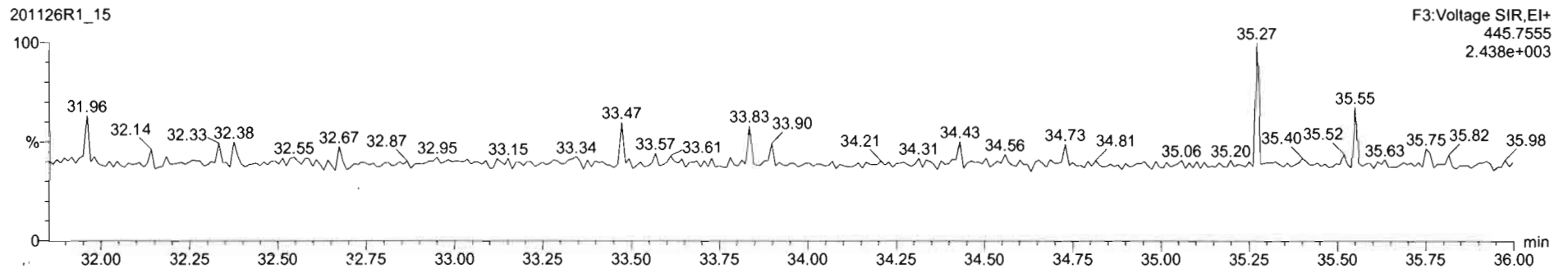
1,2,3,4,7,8-HxCDF



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



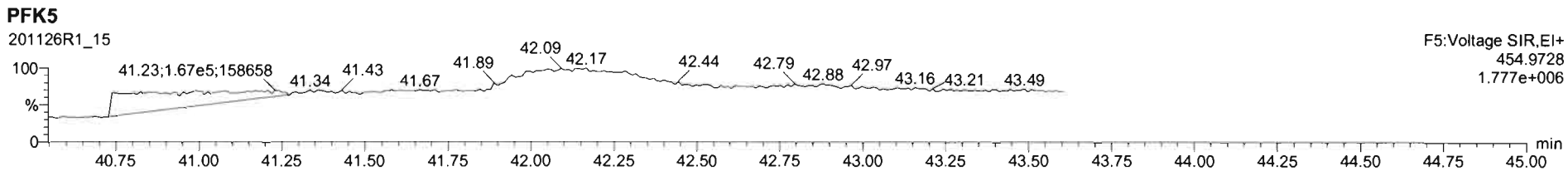
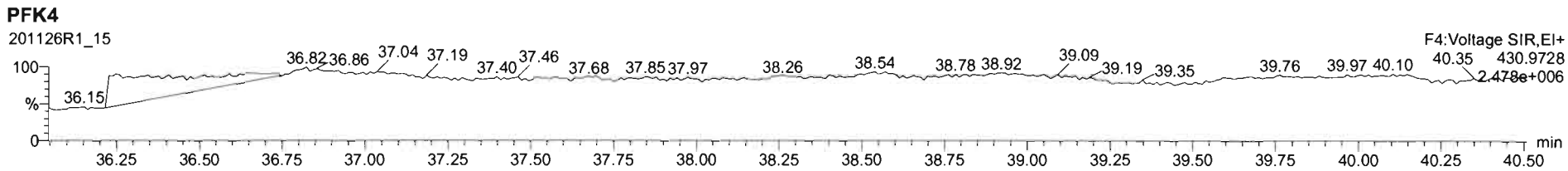
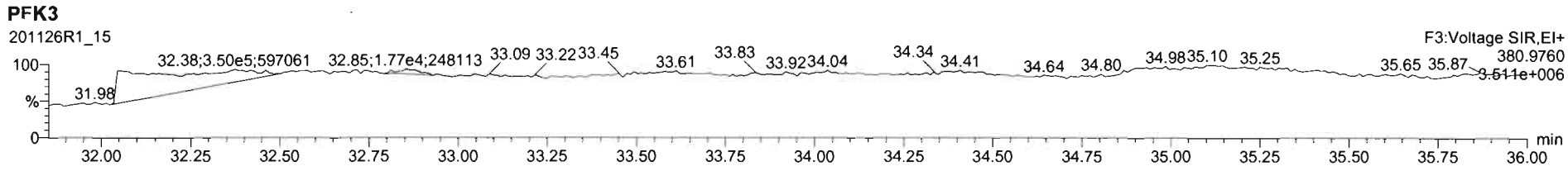
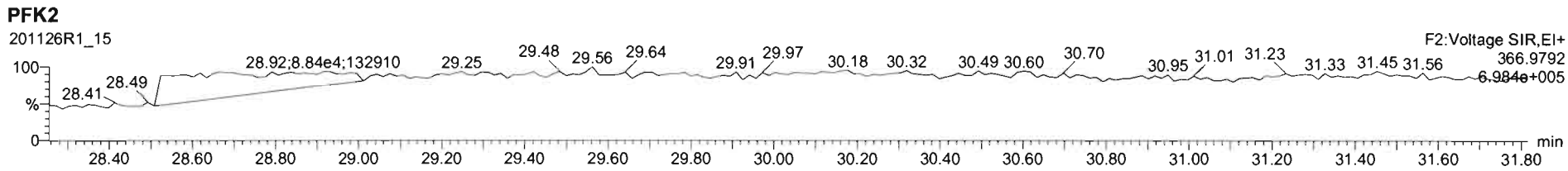
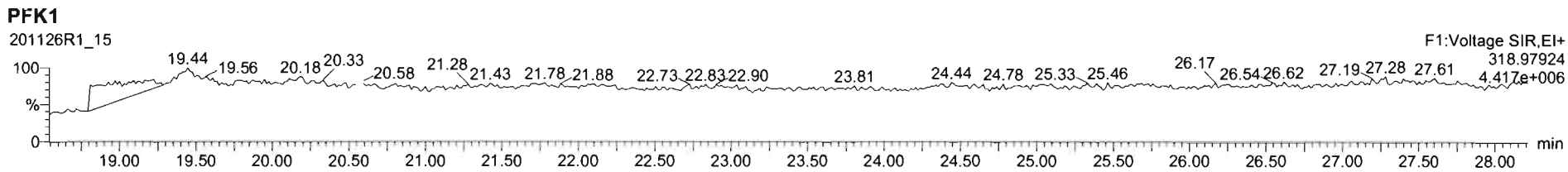
DPE3



Dataset: Untitled

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Dataset: U:\VG12.PRO\Results\201125R2\201125R2-10.qld

Last Altered: Tuesday, December 01, 2020 1:42:56 PM Pacific Standard Time
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GRB 12/01/2020

C1 12/04/2020

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Name: 201125R2_10, Date: 26-Nov-2020, Time: 04:15:46, ID: 2002374-06 USMPDI-054SC-A-06-07-201029 13.91, Description: USMPDI-054SC-A-06-07-201029

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	8.91e2	0.60	YES	0.950	10.026	26.097	26.08	1.001	1.001	0.46062		0.166	0.396
2	2 1,2,3,7,8-PeCDD	1.18e3	0.74	YES	0.885	10.026	30.816	30.82	1.000	1.001	0.98043		0.329	0.921
3	3 1,2,3,4,7,8-HxCDD	1.04e3	1.28	NO	1.02	10.026	34.143	34.15	1.000	1.001	0.84286		0.403	0.843
4	4 1,2,3,6,7,8-HxCDD	5.83e3	1.26	NO	0.915	10.026	34.271	34.27	1.000	1.000	4.4873		0.414	4.49
5	5 1,2,3,7,8,9-HxCDD	2.11e3	1.24	NO	0.934	10.026	34.537	34.53	1.000	1.000	1.6612		0.437	1.66
6	6 1,2,3,4,6,7,8-HpCDD	2.22e5	1.05	NO	0.870	10.026	38.027	38.05	1.000	1.001	232.84		1.66	233
7	7 OCDD	2.50e6	0.89	NO	0.872	10.026	40.995	41.01	1.000	1.000	3385.8		1.96	3390
8	8 2,3,7,8-TCDF	2.26e4	0.76	NO	0.824	10.026	25.381	25.39	1.000	1.001	8.0383		0.189	8.04
9	9 1,2,3,7,8-PeCDF	3.59e4	1.67	NO	0.963	10.026	29.556	29.56	1.000	1.001	13.630		0.251	13.6
10	10 2,3,4,7,8-PeCDF	3.59e4	1.59	NO	1.07	10.026	30.602	30.63	1.000	1.001	12.453		0.249	12.5
11	11 1,2,3,4,7,8-HxCDF	3.44e4	1.23	NO	0.953	10.026	33.227	33.25	1.000	1.001	19.759		0.224	19.8
12	12 1,2,3,6,7,8-HxCDF	1.17e4	1.24	NO	1.01	10.026	33.355	33.38	1.000	1.001	6.1641		0.222	6.16
13	13 2,3,4,6,7,8-HxCDF	6.78e3	1.31	NO	0.991	10.026	34.029	34.06	1.000	1.001	3.8834		0.251	3.88
14	14 1,2,3,7,8,9-HxCDF	1.43e3	1.14	NO	0.951	10.026	35.038	35.06	1.000	1.001	1.0056		0.370	1.01
15	15 1,2,3,4,6,7,8-HpCDF	6.37e4	0.98	NO	0.999	10.026	36.615	36.62	1.000	1.000	51.396		0.371	51.4
16	16 1,2,3,4,7,8,9-HpCDF	4.32e3	0.91	NO	1.12	10.026	38.666	38.67	1.000	1.000	4.2117		0.377	4.21
17	17 OCDF	6.65e4	0.87	NO	0.868	10.026	41.291	41.29	1.000	1.000	81.667		0.427	81.7
18	18 13C-2,3,7,8-TCDD	4.06e5	0.82	NO	1.11	10.026	26.058	26.07	1.030	1.030	186.28	93.4	0.446	
19	19 13C-1,2,3,7,8-PeCDD	2.71e5	0.66	NO	0.859	10.026	30.774	30.81	1.216	1.218	160.67	80.5	0.413	
20	20 13C-1,2,3,4,7,8-HxCDD	2.42e5	1.31	NO	0.700	10.026	34.143	34.13	1.014	1.014	151.52	76.0	0.653	
21	21 13C-1,2,3,6,7,8-HxCDD	2.83e5	1.29	NO	0.833	10.026	34.281	34.26	1.018	1.017	149.21	74.8	0.548	
22	22 13C-1,2,3,7,8,9-HxCDD	2.71e5	1.27	NO	0.762	10.026	34.524	34.53	1.025	1.025	155.77	78.1	0.599	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.18e5	1.10	NO	0.650	10.026	38.009	38.03	1.129	1.129	147.37	73.9	0.733	
24	24 13C-OCDD	3.38e5	0.93	NO	0.539	10.026	40.976	40.99	1.217	1.217	274.76	68.9	0.723	
25	25 13C-2,3,7,8-TCDF	6.80e5	0.78	NO	0.981	10.026	25.380	25.37	1.003	1.003	171.95	86.2	0.393	
26	26 13C-1,2,3,7,8-PeCDF	5.46e5	1.62	NO	0.792	10.026	29.506	29.55	1.166	1.168	171.18	85.8	0.900	
27	27 13C-2,3,4,7,8-PeCDF	5.38e5	1.67	NO	0.778	10.026	30.564	30.60	1.208	1.210	171.64	86.0	0.917	
28	28 13C-1,2,3,4,7,8-HxCDF	3.65e5	0.51	NO	0.954	10.026	33.234	33.23	0.987	0.987	167.65	84.0	0.790	
29	29 13C-1,2,3,6,7,8-HxCDF	3.77e5	0.50	NO	1.01	10.026	33.365	33.35	0.991	0.990	164.42	82.4	0.749	
30	30 13C-2,3,4,6,7,8-HxCDF	3.52e5	0.52	NO	0.921	10.026	34.035	34.03	1.011	1.010	167.43	83.9	0.818	
31	31 13C-1,2,3,7,8,9-HxCDF	2.99e5	0.48	NO	0.803	10.026	35.032	35.04	1.040	1.040	163.10	81.8	0.938	

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-10.qld

Last Altered: Tuesday, December 01, 2020 1:42:56 PM Pacific Standard Time

Printed: Tuesday, December 01, 2020 1:43:42 PM Pacific Standard Time

Name: 201125R2_10, Date: 26-Nov-2020, Time: 04:15:46, ID: 2002374-06 USMPDI-054SC-A-06-07-201029 13.91, Description: USMPDI-054SC-A-06-07-201029

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	2.47e5	0.41	NO	0.735	10.026	36.601	36.61	1.087	1.087	147.61	74.0	0.609	
33	13C-1,2,3,4,7,8,9-HpCDF	1.82e5	0.41	NO	0.568	10.026	38.639	38.67	1.147	1.148	140.59	70.5	0.789	
34	13C-OCDF	3.74e5	0.87	NO	0.629	10.026	41.259	41.28	1.225	1.226	260.79	65.4	0.425	
35	37Cl-2,3,7,8-TCDD	1.91e5			1.09	10.026	26.058	26.08	1.030	1.031	89.155	112	0.167	
36	13C-1,2,3,4-TCDD	3.92e5	0.85	NO	1.00	10.026	25.370	25.30	1.000	1.000	199.48	100	0.495	
37	13C-1,2,3,4-TCDF	8.04e5	0.80	NO	1.00	10.026	23.870	23.79	1.000	1.000	199.48	100	0.386	
38	13C-1,2,3,4,6,9-HxCDF	4.55e5	0.51	NO	1.00	10.026	33.710	33.67	1.000	1.000	199.48	100	0.754	
39	Total Tetra-Dioxins				0.950	10.026	24.620		0.000		5.3651		0.168	5.76
40	Total Penta-Dioxins				0.885	10.026	29.960		0.000		12.320		0.329	16.0
41	Total Hexa-Dioxins				0.915	10.026	33.635		0.000		74.973		0.435	75.0
42	Total Hepta-Dioxins				0.870	10.026	37.640		0.000		605.24		1.66	605
43	Total Tetra-Furans				0.824	10.026	23.610		0.000		43.104		0.189	49.2
44	1st Func. Penta-Furans				0.963	10.026	26.930		0.000		18.581		0.0441	18.6
45	Total Penta-Furans				0.963	10.026	29.275		0.000		62.416		0.263	62.4
46	Total Hexa-Furans				0.991	10.026	33.555		0.000		98.172		0.257	98.2
47	Total Hepta-Furans				0.999	10.026	37.835		0.000		126.24		0.393	126

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-10.qld

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Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R2_10, Date: 26-Nov-2020, Time: 04:15:46, ID: 2002374-06 USMPDI-054SC-A-06-07-201029 13.91, Description: USMPDI-054SC-A-06-07-201029

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.25	2.812e4	3.201e4	2.585e3	3.118e3	0.83	NO	5.704e3	2.9476	2.9476	0.168
2	Total Tetra-Dioxins	22.62	5.512e3	6.650e3	4.747e2	5.695e2	0.83	NO	1.044e3	0.53962	0.53962	0.168
3	Total Tetra-Dioxins	24.01	3.245e3	5.603e3	2.120e2	3.082e2	0.69	NO	5.201e2	0.26880	0.26880	0.168
4	Total Tetra-Dioxins	24.19	6.027e3	7.069e3	4.456e2	5.106e2	0.87	NO	9.562e2	0.49417	0.49417	0.168
5	Total Tetra-Dioxins	24.43	7.069e3	9.278e3	4.823e2	5.734e2	0.84	NO	1.056e3	0.54556	0.54556	0.168
6	Total Tetra-Dioxins	25.80	5.883e3	7.640e3	4.913e2	6.104e2	0.80	NO	1.102e3	0.56939	0.56939	0.168
7	2,3,7,8-TCDD	26.08	5.252e3	9.532e3	3.336e2	5.577e2	0.60	YES	8.913e2	0.00000	0.39633	0.168

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.56	3.825e4	5.384e4	2.721e3	4.655e3	0.58	NO	7.376e3	6.1252	6.1252	0.329
2	Total Penta-Dioxins	29.04	5.218e3	8.661e3	2.615e2	4.380e2	0.60	NO	6.995e2	0.58085	0.58085	0.329
3	Total Penta-Dioxins	29.56	4.133e4	5.641e4	2.171e3	3.186e3	0.68	NO	5.357e3	4.4483	4.4483	0.329
4	Total Penta-Dioxins	29.74	1.196e4	1.647e4	4.387e2	6.597e2	0.66	NO	0.000e0	0.00000	0.91205	0.329
5	Total Penta-Dioxins	29.77	1.015e4	2.183e4	6.156e2	1.040e3	0.59	NO	0.000e0	0.00000	1.3750	0.329
6	Total Penta-Dioxins	30.03	7.958e3	1.249e4	5.617e2	8.426e2	0.67	NO	1.404e3	1.1661	1.1661	0.329
7	1,2,3,7,8-PeCDD	30.82	1.076e4	1.311e4	5.003e2	6.804e2	0.74	YES	1.181e3	0.00000	0.92088	0.329
8	Total Penta-Dioxins	30.92	3.900e3	4.444e3	2.659e2	3.385e2	0.79	YES	0.000e0	0.00000	0.45822	0.329

Vista Analytical Laboratory

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Name: 201125R2_10, Date: 26-Nov-2020, Time: 04:15:46, ID: 2002374-06 USMPDI-054SC-A-06-07-201029 13.91, Description: USMPDI-054SC-A-06-07-201029

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.51	5.110e5	4.101e5	2.454e4	1.946e4	1.26	NO	4.399e4	36.187	36.187	0.435
2	Total Hexa-Dioxins	33.11	5.214e4	3.980e4	2.708e3	2.048e3	1.32	NO	4.756e3	3.9122	3.9122	0.435
3	Total Hexa-Dioxins	33.41	2.708e5	2.035e5	1.798e4	1.375e4	1.31	NO	3.173e4	26.100	26.100	0.435
4	Total Hexa-Dioxins	33.46	2.507e4	2.152e4	1.147e3	1.019e3	1.12	NO	2.166e3	1.7817	1.7817	0.435
5	1,2,3,4,7,8-HxCDD	34.15	1.143e4	1.116e4	5.834e2	4.559e2	1.28	NO	1.039e3	0.84286	0.84286	0.403
6	1,2,3,6,7,8-HxCDD	34.27	5.803e4	4.207e4	3.249e3	2.579e3	1.26	NO	5.827e3	4.4873	4.4873	0.414
7	1,2,3,7,8,9-HxCDD	34.53	2.103e4	1.477e4	1.164e3	9.415e2	1.24	NO	2.105e3	1.6612	1.6612	0.437

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.01	2.677e6	2.634e6	1.786e5	1.758e5	1.02	NO	3.543e5	372.40	372.40	1.66
2	1,2,3,4,6,7,8-HpCDD	38.05	1.931e6	1.824e6	1.137e5	1.079e5	1.05	NO	2.215e5	232.84	232.84	1.66

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-10.qld

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Name: 201125R2_10, Date: 26-Nov-2020, Time: 04:15:46, ID: 2002374-06 USMPDI-054SC-A-06-07-201029 13.91, Description: USMPDI-054SC-A-06-07-201029

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.58	1.392e4	1.729e4	1.323e3	1.607e3	0.82	NO	2.930e3	1.0428	1.0428	0.189
2	Total Tetra-Furans	21.37	1.135e5	1.397e5	1.084e4	1.437e4	0.75	NO	2.521e4	8.9738	8.9738	0.189
3	Total Tetra-Furans	22.30	5.926e4	7.720e4	6.100e3	8.075e3	0.76	NO	1.417e4	5.0448	5.0448	0.189
4	Total Tetra-Furans	22.77	7.391e4	1.038e5	6.378e3	8.697e3	0.73	NO	1.508e4	5.3654	5.3654	0.189
5	Total Tetra-Furans	22.86	5.713e3	7.623e3	3.173e2	4.575e2	0.69	NO	7.747e2	0.27573	0.27573	0.189
6	Total Tetra-Furans	23.13	8.170e3	1.253e4	6.260e2	9.180e2	0.68	NO	1.544e3	0.54951	0.54951	0.189
7	Total Tetra-Furans	23.64	6.970e3	7.825e3	4.224e2	5.093e2	0.83	NO	9.317e2	0.33160	0.33160	0.189
8	Total Tetra-Furans	23.89	3.567e4	5.315e4	1.512e3	2.068e3	0.73	NO	0.000e0	0.00000	1.2739	0.189
9	Total Tetra-Furans	23.94	7.250e4	1.002e5	5.259e3	7.779e3	0.68	NO	0.000e0	0.00000	4.6405	0.189
10	Total Tetra-Furans	24.38	1.361e5	1.819e5	1.009e4	1.371e4	0.74	NO	2.380e4	8.4698	8.4698	0.189
11	Total Tetra-Furans	24.69	6.633e3	6.972e3	3.571e2	4.943e2	0.72	NO	8.514e2	0.30303	0.30303	0.189
12	Total Tetra-Furans	25.12	4.219e3	5.017e3	3.158e2	3.762e2	0.84	NO	6.920e2	0.24628	0.24628	0.189
13	Total Tetra-Furans	25.27	2.791e4	3.559e4	1.771e3	2.608e3	0.68	NO	4.379e3	1.5586	1.5586	0.189
14	2,3,7,8-TCDF	25.39	1.410e5	1.840e5	9.754e3	1.283e4	0.76	NO	2.259e4	8.0383	8.0383	0.189
15	Total Tetra-Furans	25.70	1.204e4	1.403e4	7.981e2	9.464e2	0.84	NO	1.745e3	0.62088	0.62088	0.189
16	Total Tetra-Furans	26.57	4.348e3	5.036e3	2.454e2	3.542e2	0.69	NO	5.996e2	0.21339	0.21339	0.189
17	Total Tetra-Furans	26.72	3.658e3	5.030e3	1.939e2	2.827e2	0.69	NO	4.766e2	0.16961	0.16961	0.189
18	Total Tetra-Furans	26.93	2.036e4	2.767e4	1.513e3	1.850e3	0.82	NO	3.363e3	1.1970	1.1970	0.189
19	Total Tetra-Furans	27.15	9.142e3	5.824e3	6.721e2	2.983e2	2.25	YES	0.000e0	0.00000	0.18792	0.189
20	Total Tetra-Furans	27.31	1.366e4	1.819e4	7.878e2	1.188e3	0.66	NO	1.976e3	0.70310	0.70310	0.189

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	26.93	5.056e5	3.028e5	3.004e4	1.855e4	1.62	NO	4.859e4	18.581	18.581	0.0441

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-10.qld

Last Altered: Tuesday, December 01, 2020 1:42:56 PM Pacific Standard Time
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Name: 201125R2_10, Date: 26-Nov-2020, Time: 04:15:46, ID: 2002374-06 USMPDI-054SC-A-06-07-201029 13.91, Description: USMPDI-054SC-A-06-07-201029

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.40	2.613e4	1.281e4	1.499e3	1.043e3	1.44	NO	2.542e3	0.97195	0.97195	0.263
2	Total Penta-Furans	28.57	4.771e5	2.767e5	3.231e4	1.960e4	1.65	NO	5.191e4	19.850	19.850	0.263
3	Total Penta-Furans	29.20	1.816e5	1.089e5	1.021e4	6.189e3	1.65	NO	1.640e4	6.2712	6.2712	0.263
4	Total Penta-Furans	29.36	6.190e4	3.571e4	3.185e3	1.815e3	1.75	NO	5.000e3	1.9120	1.9120	0.263
5	1,2,3,7,8-PeCDF	29.56	4.322e5	2.538e5	2.246e4	1.346e4	1.67	NO	3.592e4	13.630	13.630	0.251
6	Total Penta-Furans	29.81	1.941e5	1.123e5	1.064e4	6.346e3	1.68	NO	1.698e4	6.4935	6.4935	0.263
7	Total Penta-Furans	30.44	8.842e3	5.109e3	5.047e2	3.097e2	1.63	NO	8.144e2	0.31140	0.31140	0.263
8	2,3,4,7,8-PeCDF	30.63	3.917e5	2.494e5	2.202e4	1.386e4	1.59	NO	3.588e4	12.453	12.453	0.249
9	Total Penta-Furans	31.55	1.648e4	8.365e3	8.381e2	5.306e2	1.58	NO	1.369e3	0.52335	0.52335	0.263

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	31.98	1.646e5	1.463e5	7.879e3	6.644e3	1.19	NO	1.452e4	8.4038	8.4038	0.257
2	Total Hexa-Furans	32.15	4.918e5	3.908e5	2.256e4	1.956e4	1.15	NO	4.212e4	24.373	24.373	0.257
3	Total Hexa-Furans	32.55	7.535e3	5.891e3	2.931e2	2.677e2	1.09	NO	5.608e2	0.32452	0.32452	0.257
4	Total Hexa-Furans	32.78	6.391e5	5.106e5	2.992e4	2.486e4	1.20	NO	5.478e4	31.702	31.702	0.257
5	Total Hexa-Furans	33.11	8.006e3	7.174e3	4.084e2	3.026e2	1.35	NO	7.110e2	0.41142	0.41142	0.257
6	1,2,3,4,7,8-HxCDF	33.25	3.619e5	2.963e5	1.898e4	1.544e4	1.23	NO	3.443e4	19.759	19.759	0.224
7	1,2,3,6,7,8-HxCDF	33.38	1.155e5	9.119e4	6.510e3	5.235e3	1.24	NO	1.174e4	6.1641	6.1641	0.222
8	Total Hexa-Furans	33.67	6.387e3	6.544e3	2.809e2	2.533e2	1.11	NO	5.342e2	0.30912	0.30912	0.257
9	2,3,4,6,7,8-HxCDF	34.06	5.813e4	5.084e4	3.843e3	2.938e3	1.31	NO	6.780e3	3.8834	3.8834	0.251
10	1,2,3,7,8,9-HxCDF	35.06	3.131e4	2.296e4	7.637e2	6.677e2	1.14	NO	1.431e3	1.0056	1.0056	0.370
11	Total Hexa-Furans	35.07	3.811e4	3.755e4	1.715e3	1.458e3	1.18	NO	3.173e3	1.8360	1.8360	0.257

Hepta-Furans

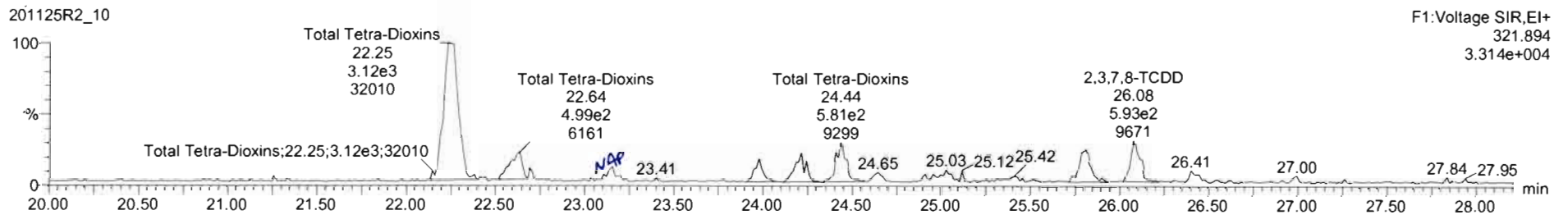
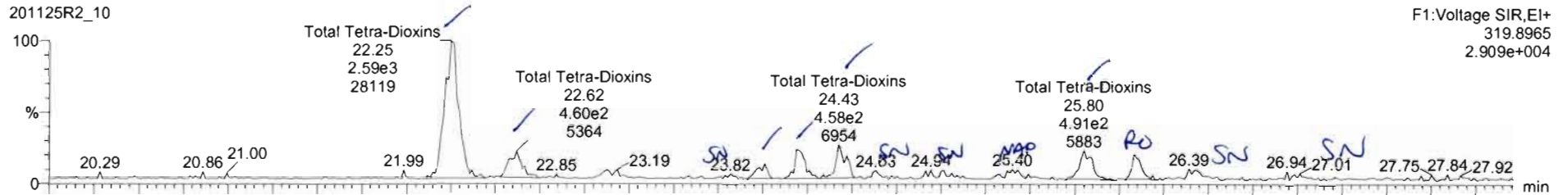
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.62	4.818e5	5.000e5	3.155e4	3.213e4	0.98	NO	6.368e4	51.396	51.396	0.371
2	Total Hepta-Furans	37.35	5.919e5	5.686e5	3.789e4	3.803e4	1.00	NO	7.592e4	70.634	70.634	0.393
3	1,2,3,4,7,8,9-HpCDF	38.67	3.287e4	3.999e4	2.055e3	2.262e3	0.91	NO	4.317e3	4.2117	4.2117	0.377

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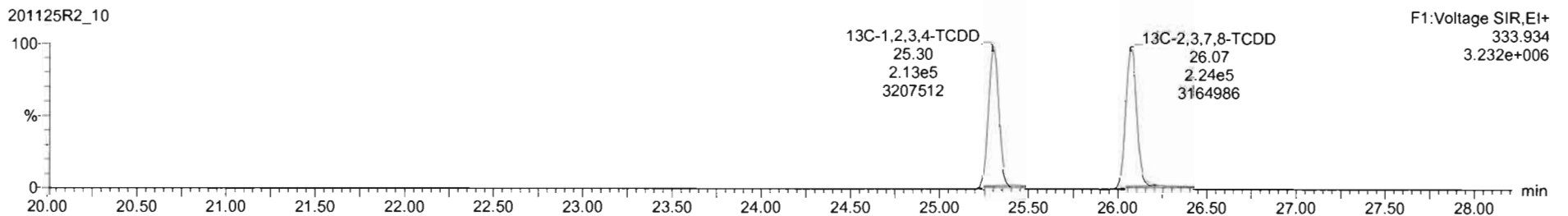
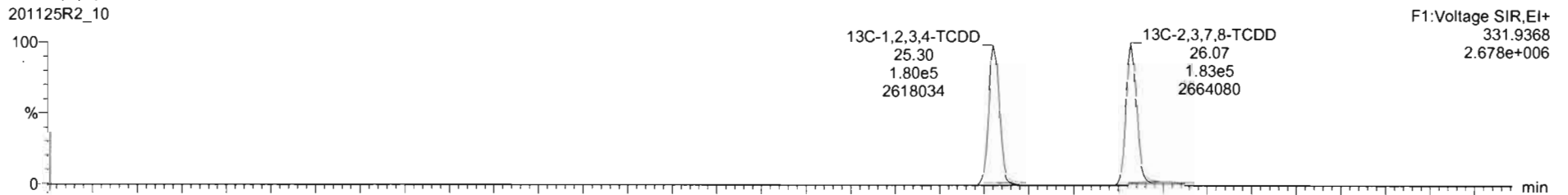
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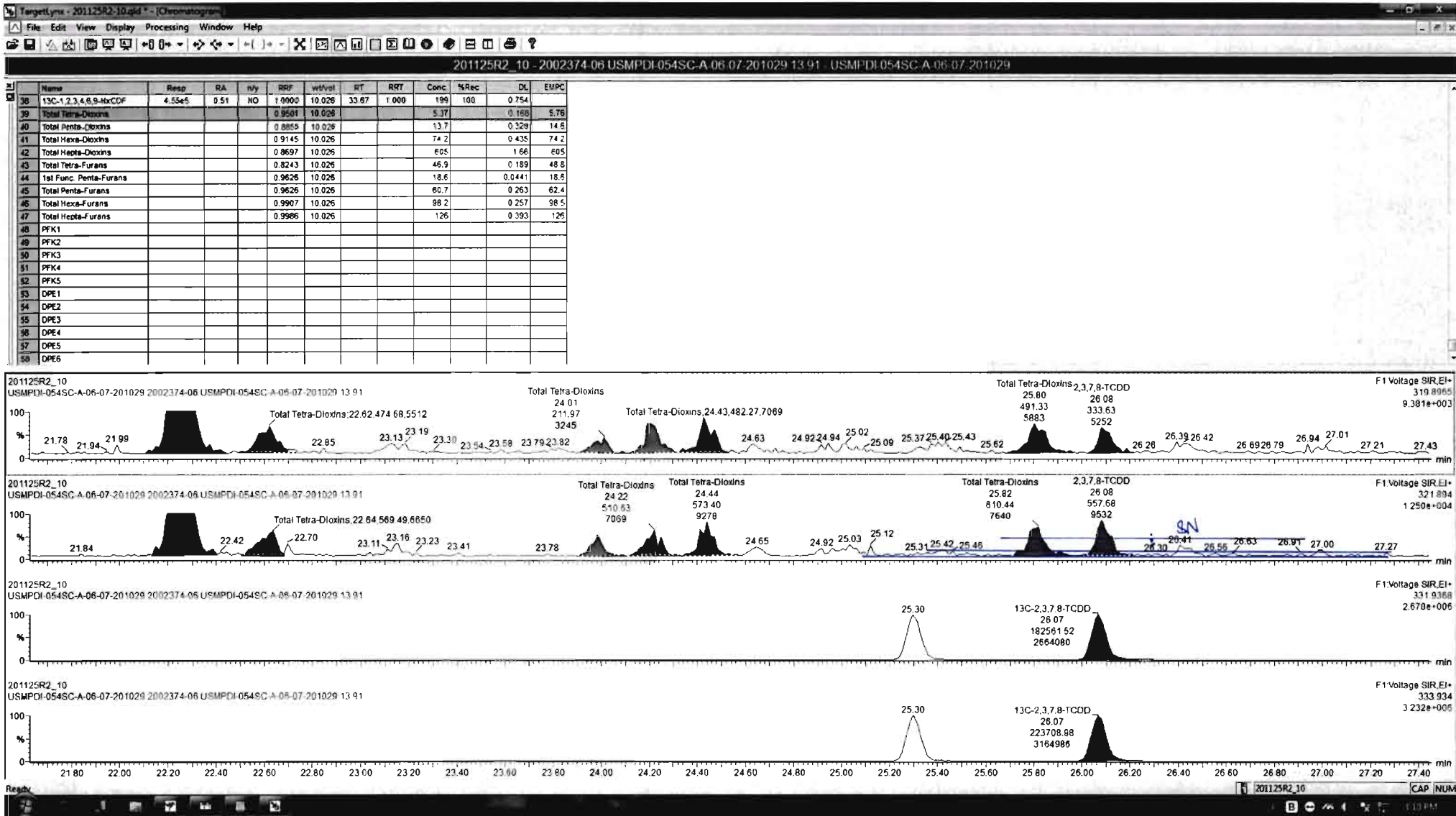
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2,3,7,8-TCDD



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





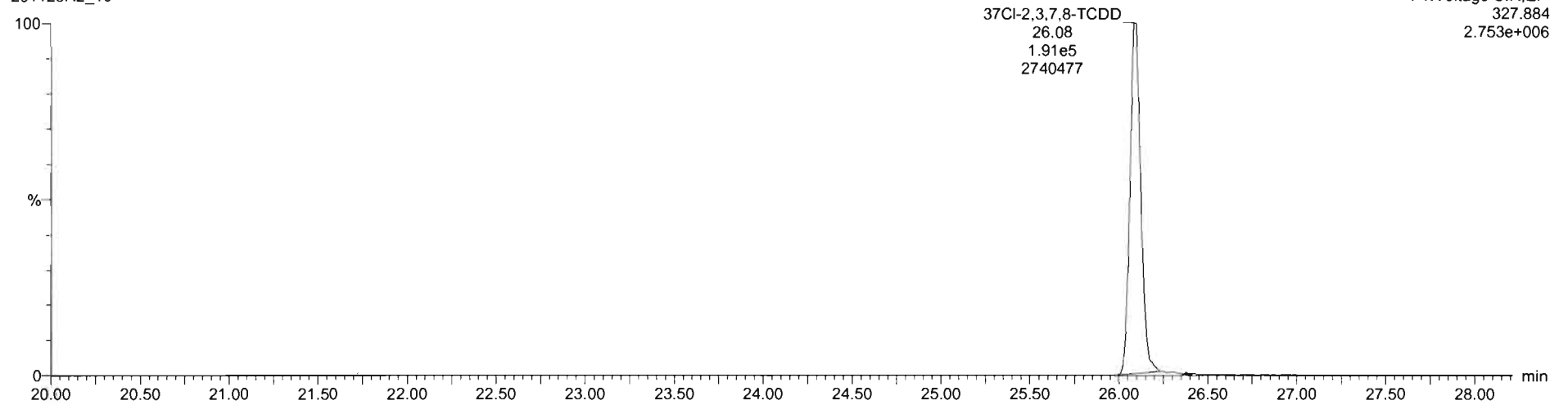
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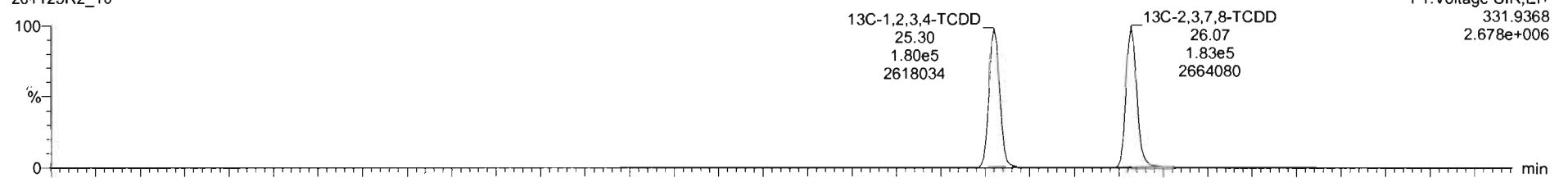
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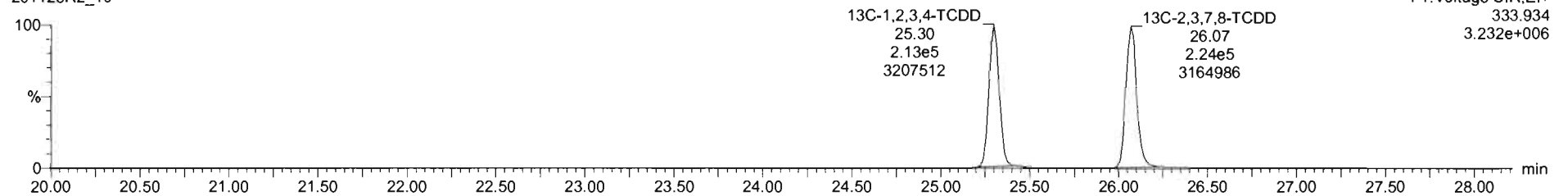


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201125R2_10



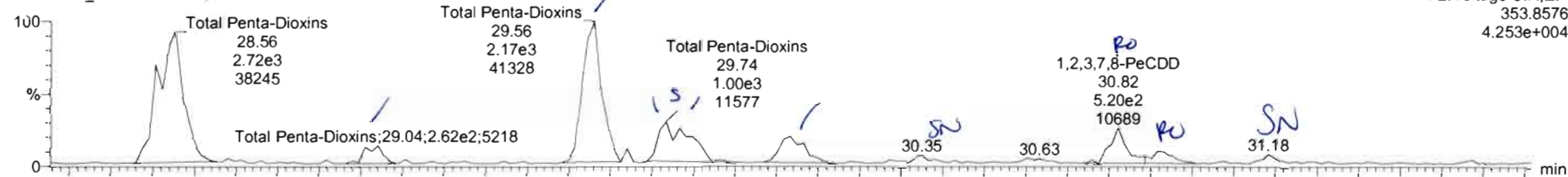
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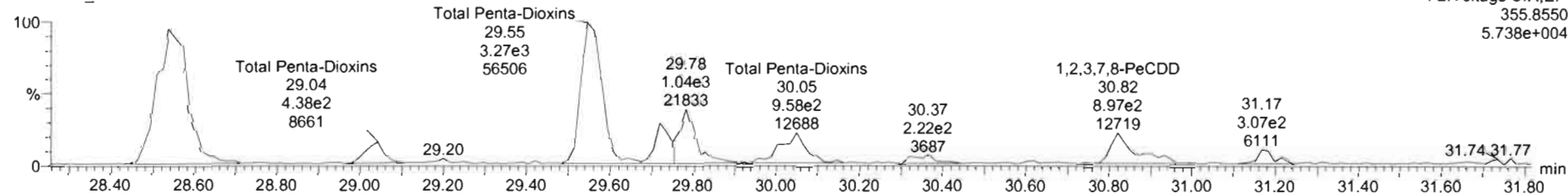
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1,2,3,7,8-PeCDD

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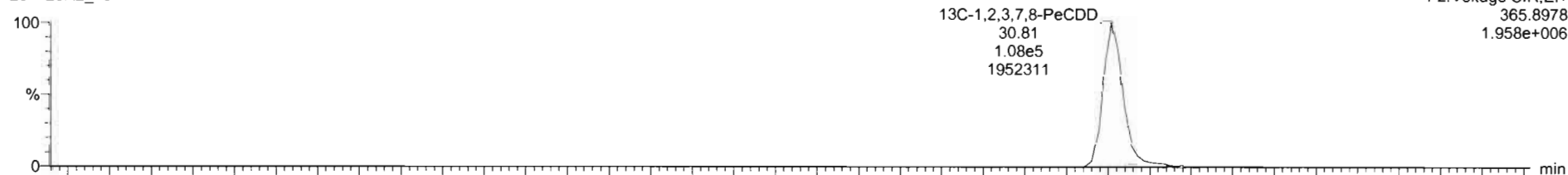


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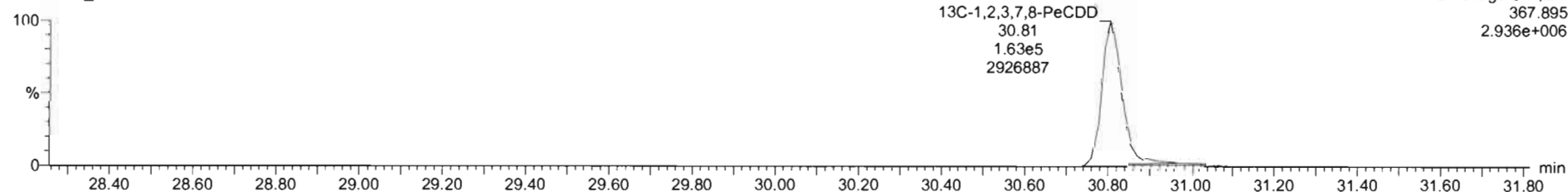


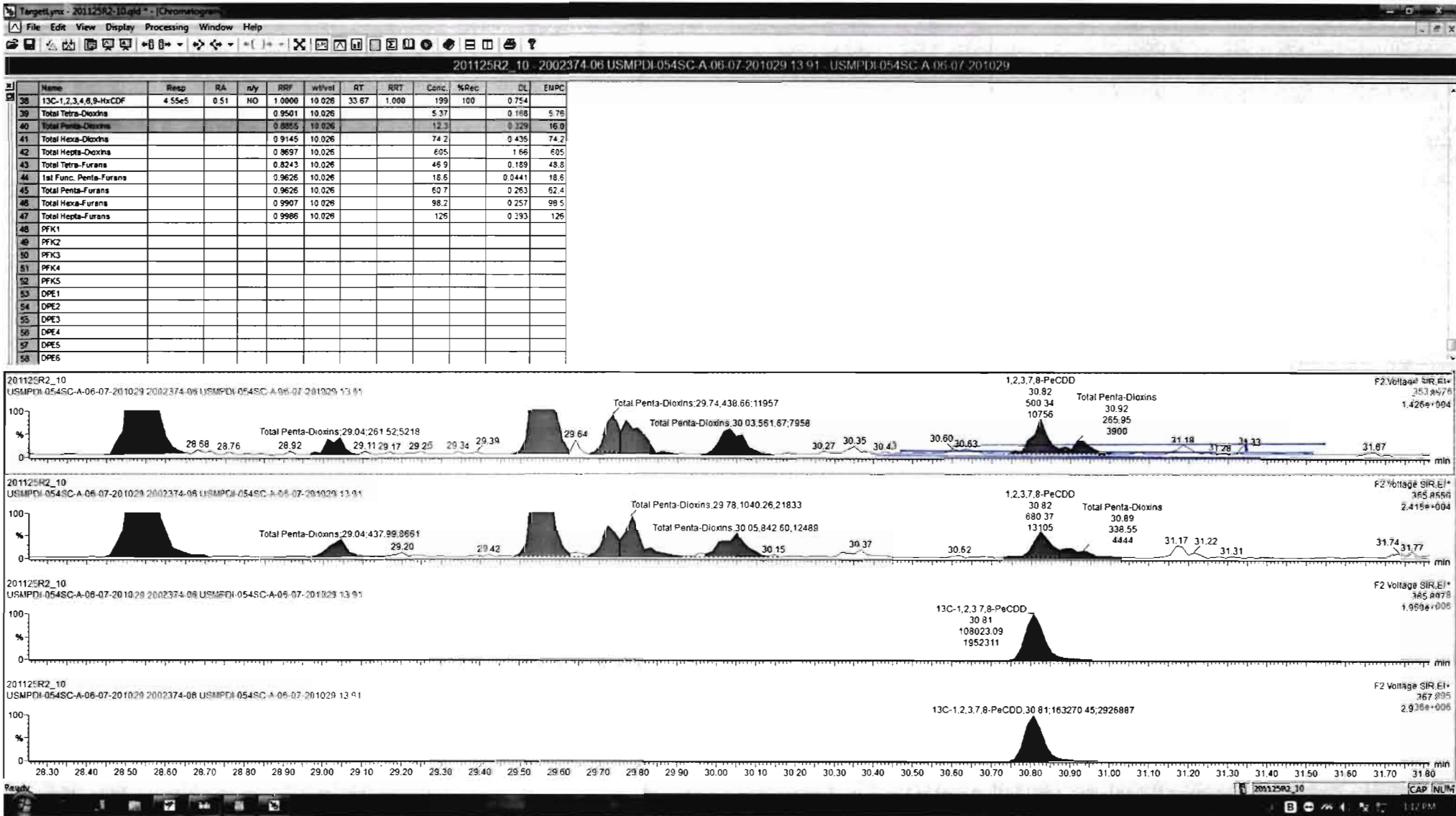
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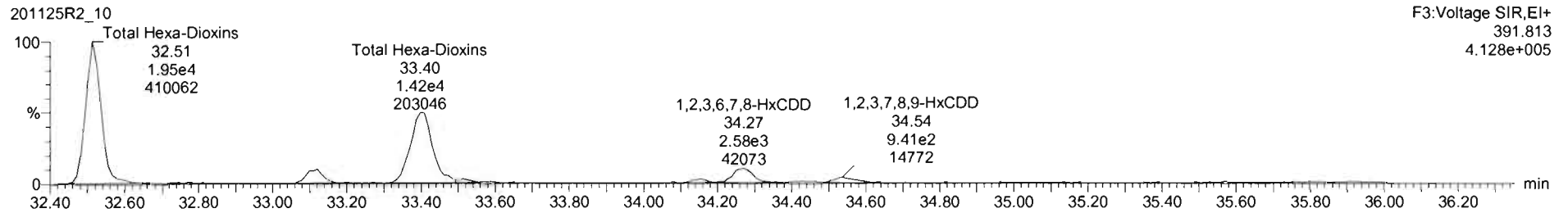
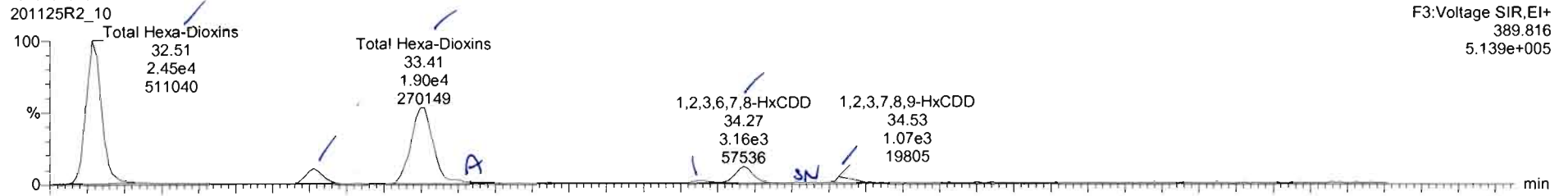


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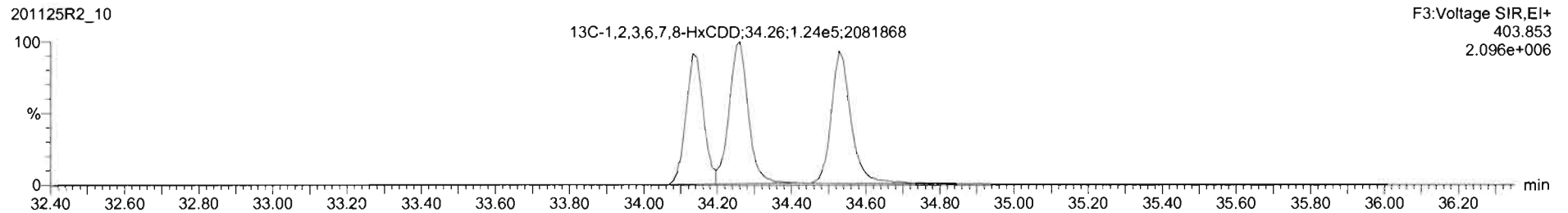
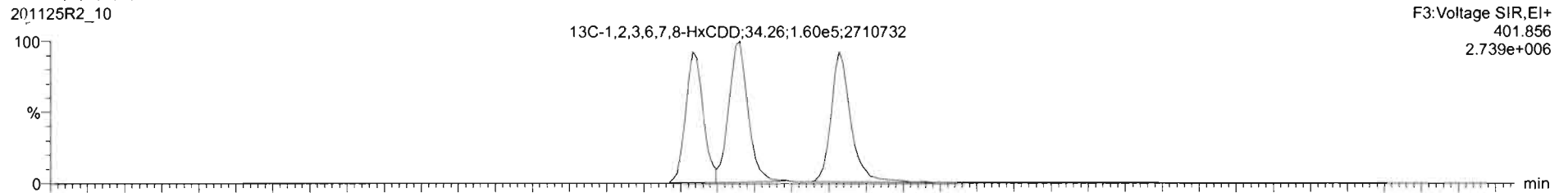
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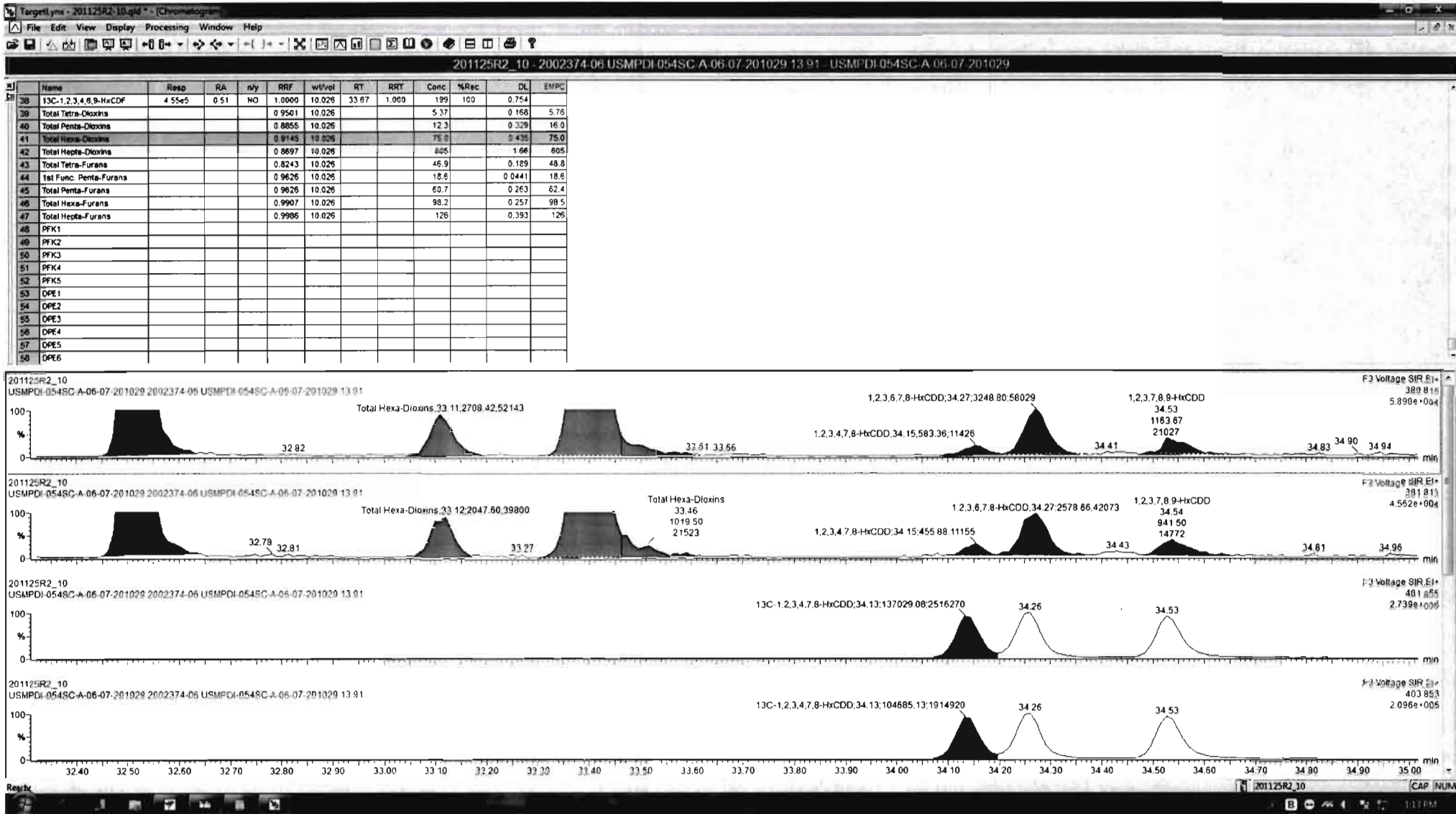
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1,2,3,4,7,8-HxCDD



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





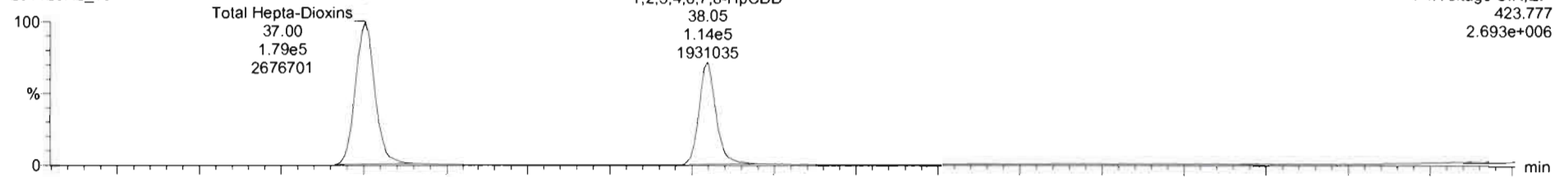
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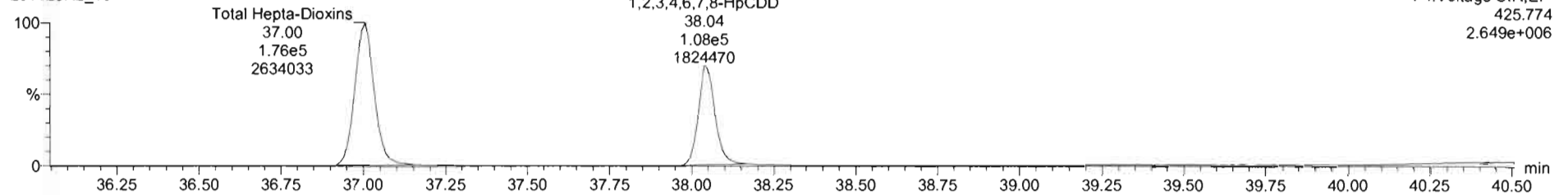
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1,2,3,4,6,7,8-HpCDD

201125R2_10

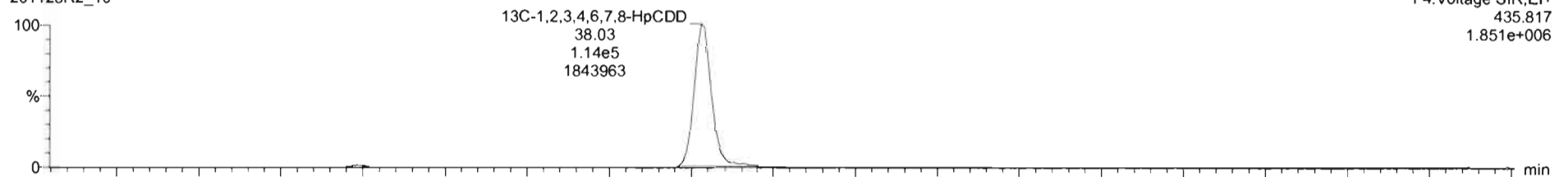


201125R2_10

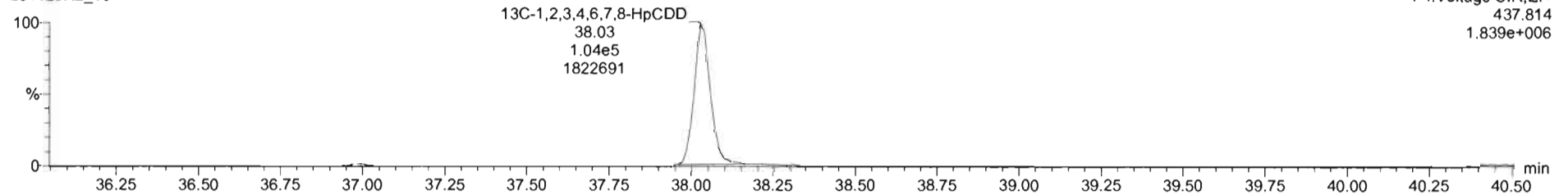


13C-1,2,3,4,6,7,8-HpCDD

201125R2_10



201125R2_10

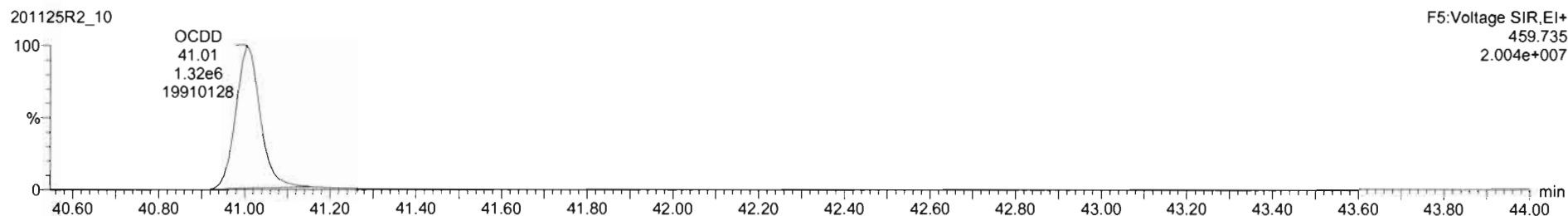
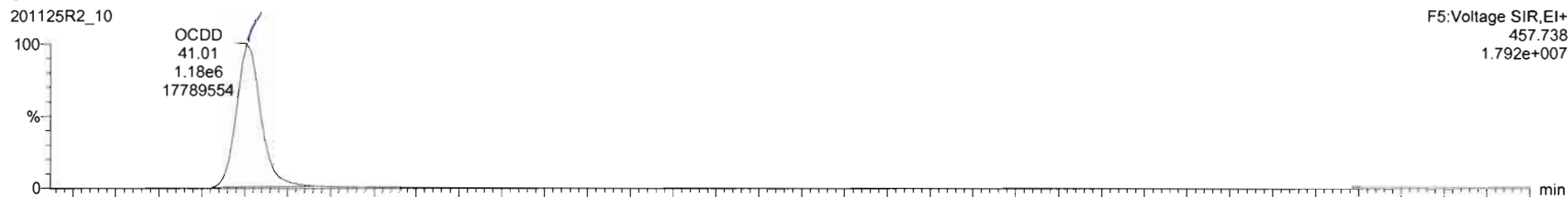


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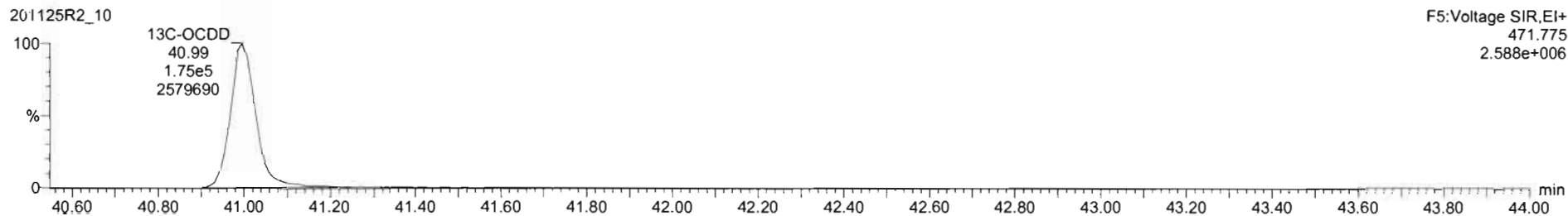
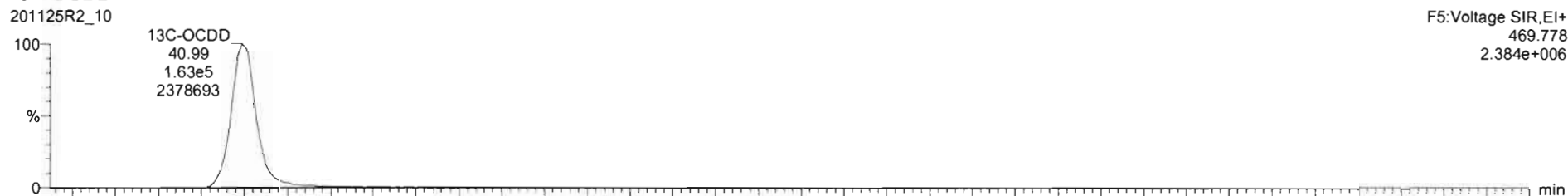
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Name: 201125R2_10, Date: 26-Nov-2020, Time: 04:15:46, ID: 2002374-06 USMPDI-054SC-A-06-07-201029 13.91, Description: USMPDI-054SC-A-06-07-201029

OCDD



13C-OCDD

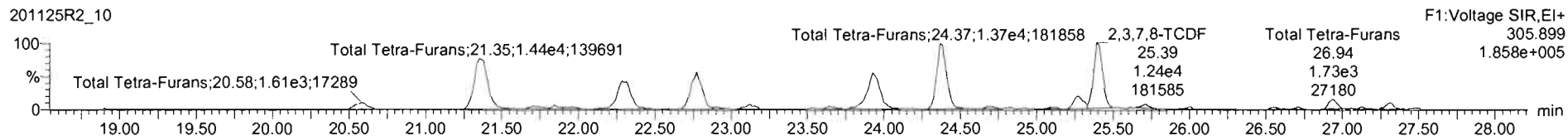


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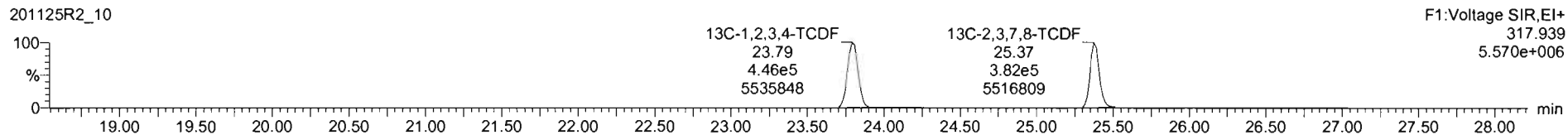
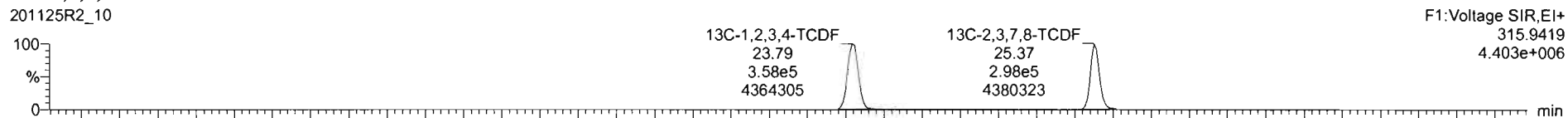
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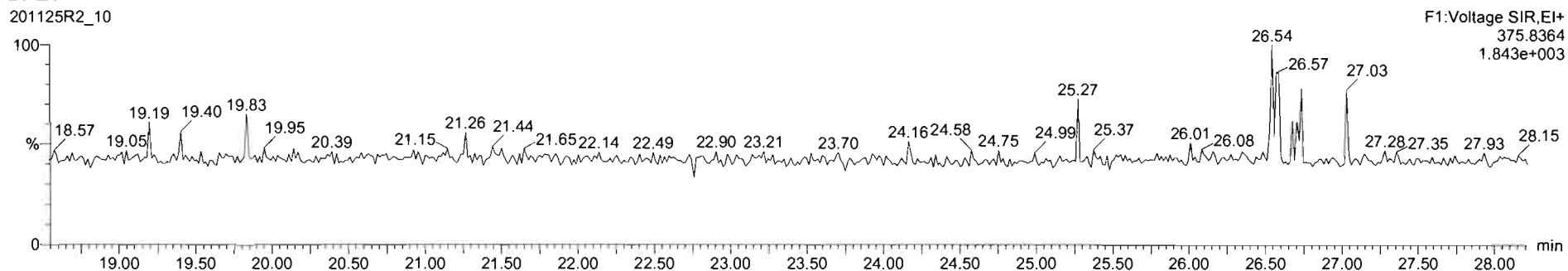
2,3,7,8-TCDF

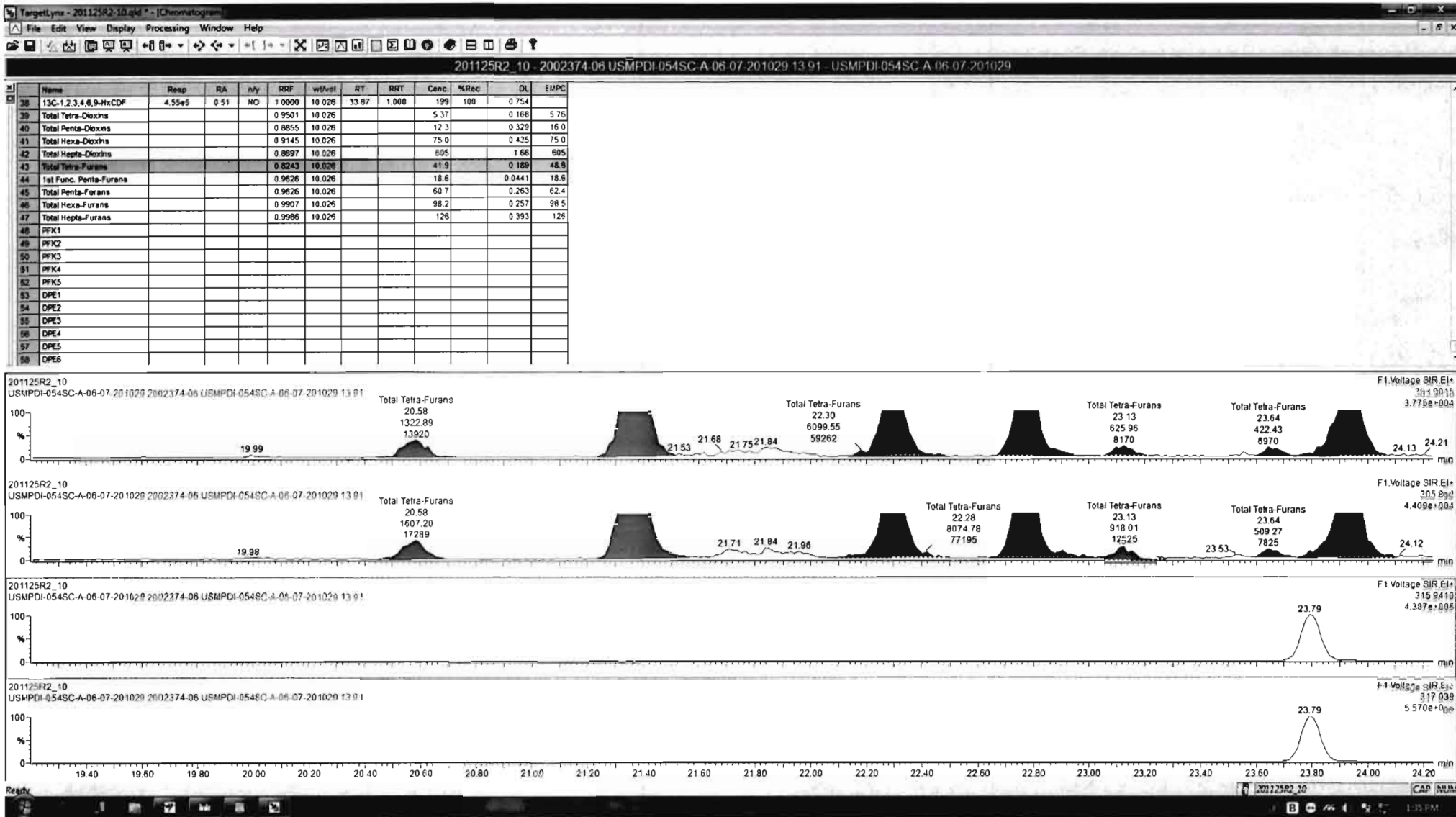


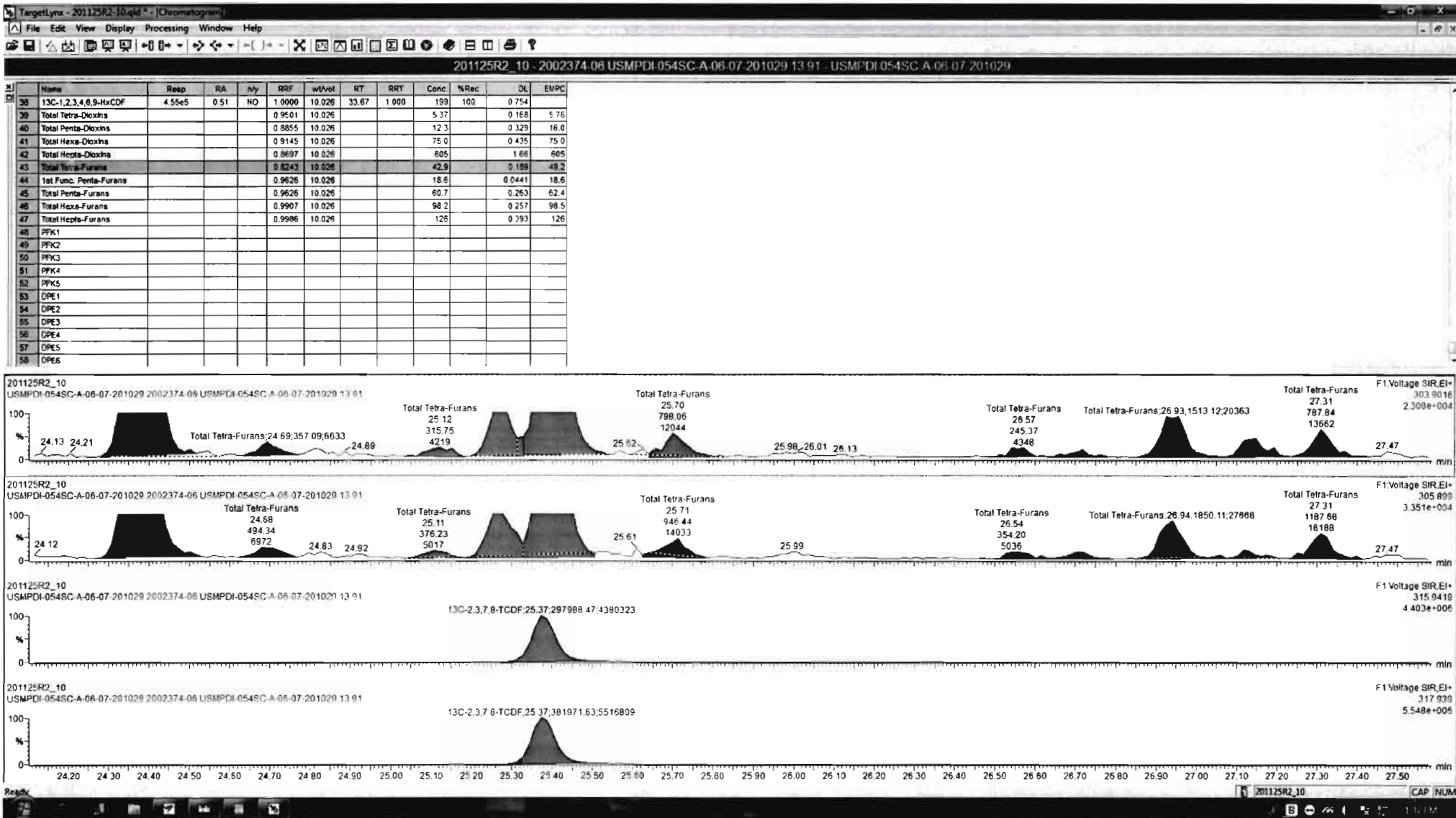
13C-2,3,7,8-TCDF



DPE1







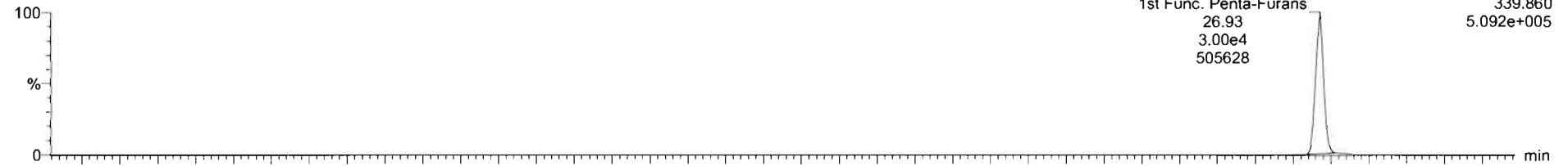
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Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

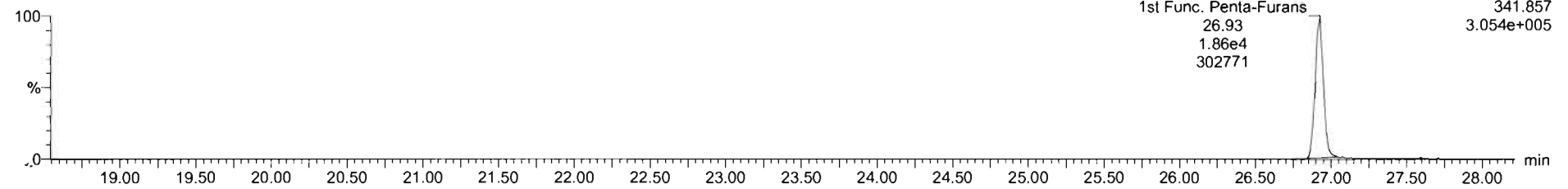
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1st Func. Penta-Furans

201125R2_10

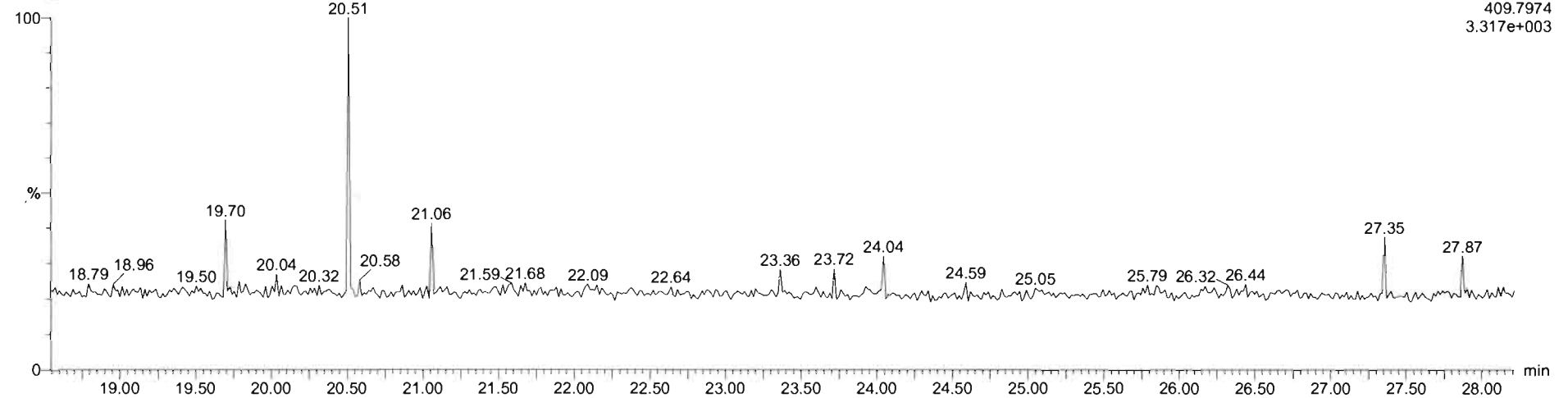


201125R2_10



DPE6

201125R2_10

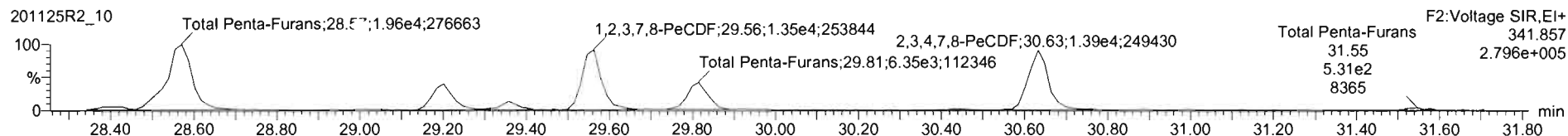
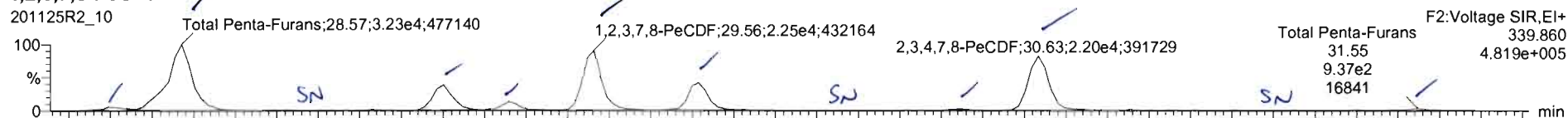


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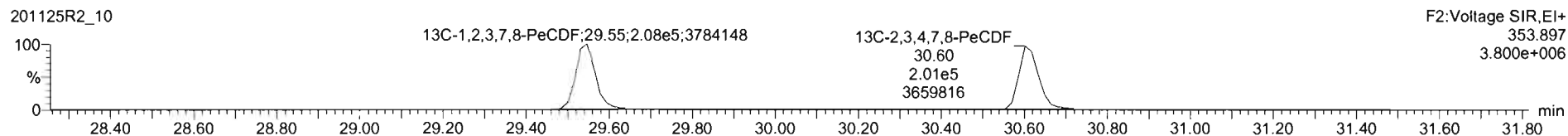
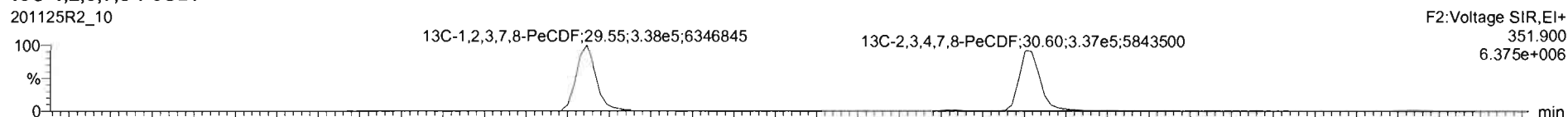
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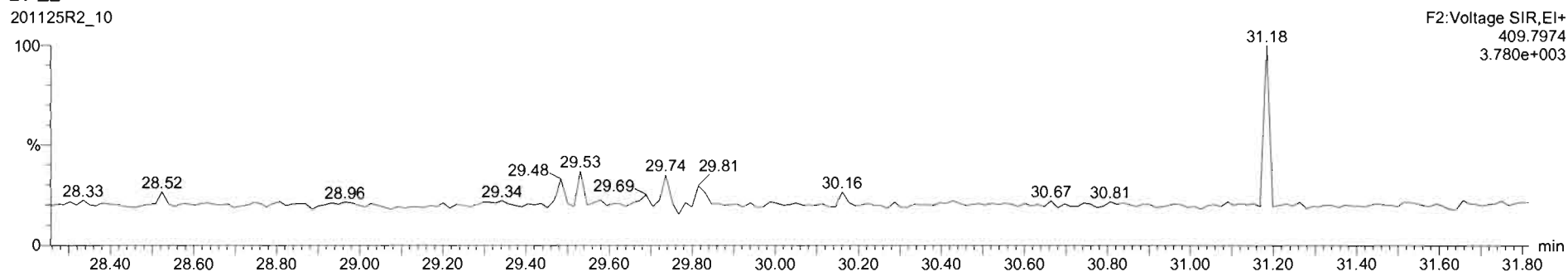
1,2,3,7,8-PeCDF

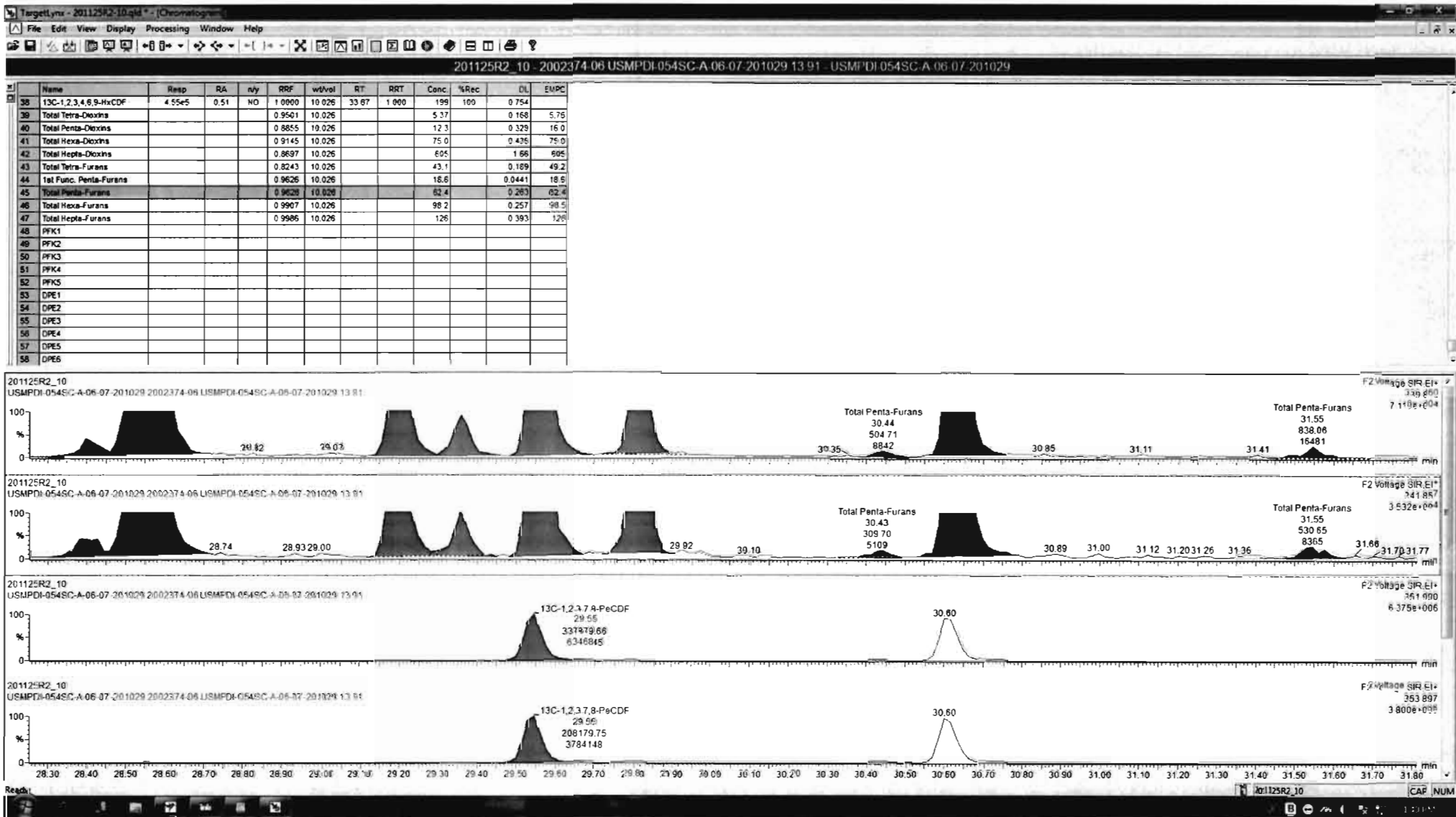


13C-1,2,3,7,8-PeCDF



DPE2



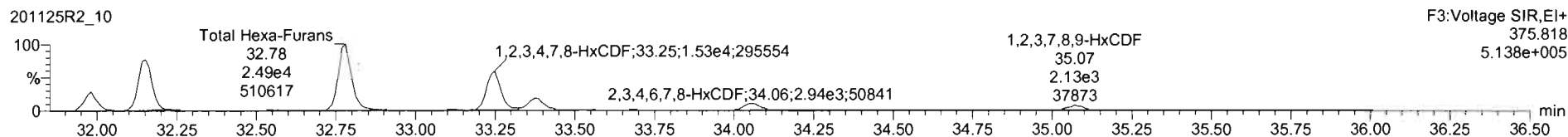
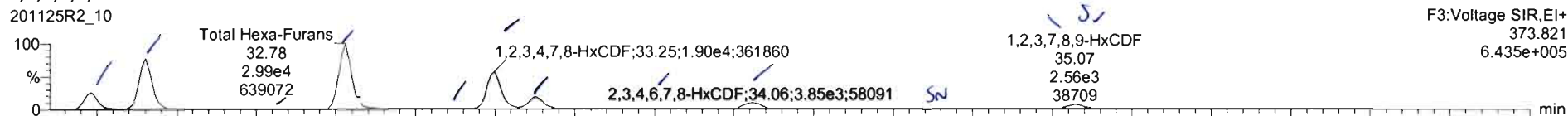


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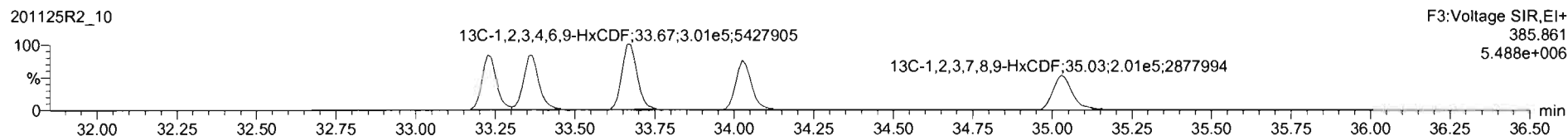
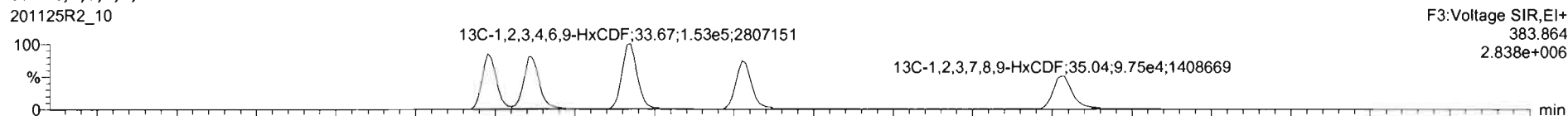
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Name: 201125R2_10, Date: 26-Nov-2020, Time: 04:15:46, ID: 2002374-06 USMPDI-054SC-A-06-07-201029 13.91, Description: USMPDI-054SC-A-06-07-201029

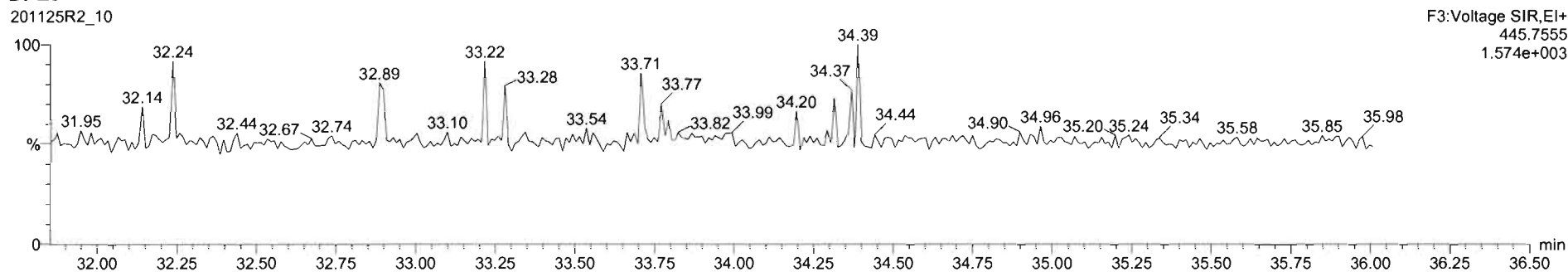
1,2,3,4,7,8-HxCDF



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



DPE3

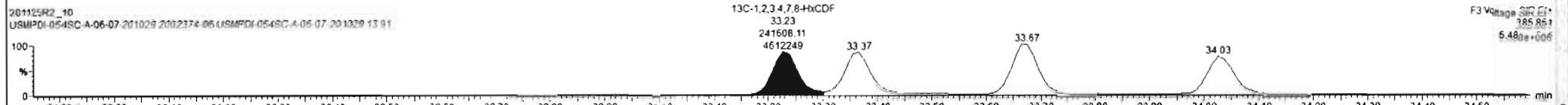
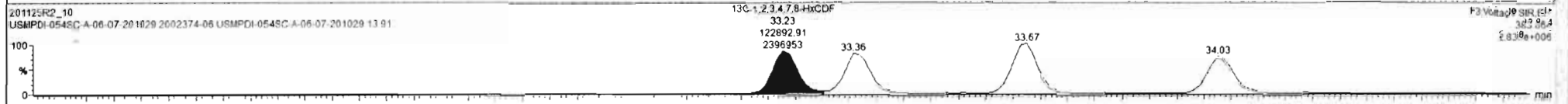
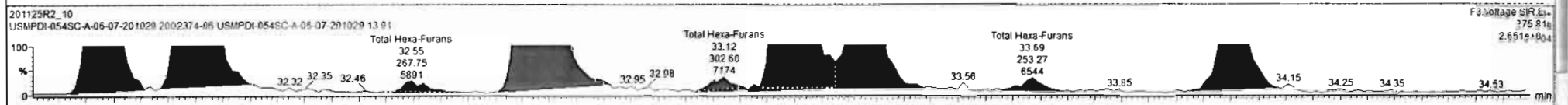
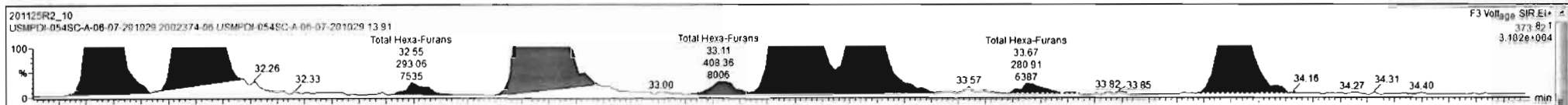


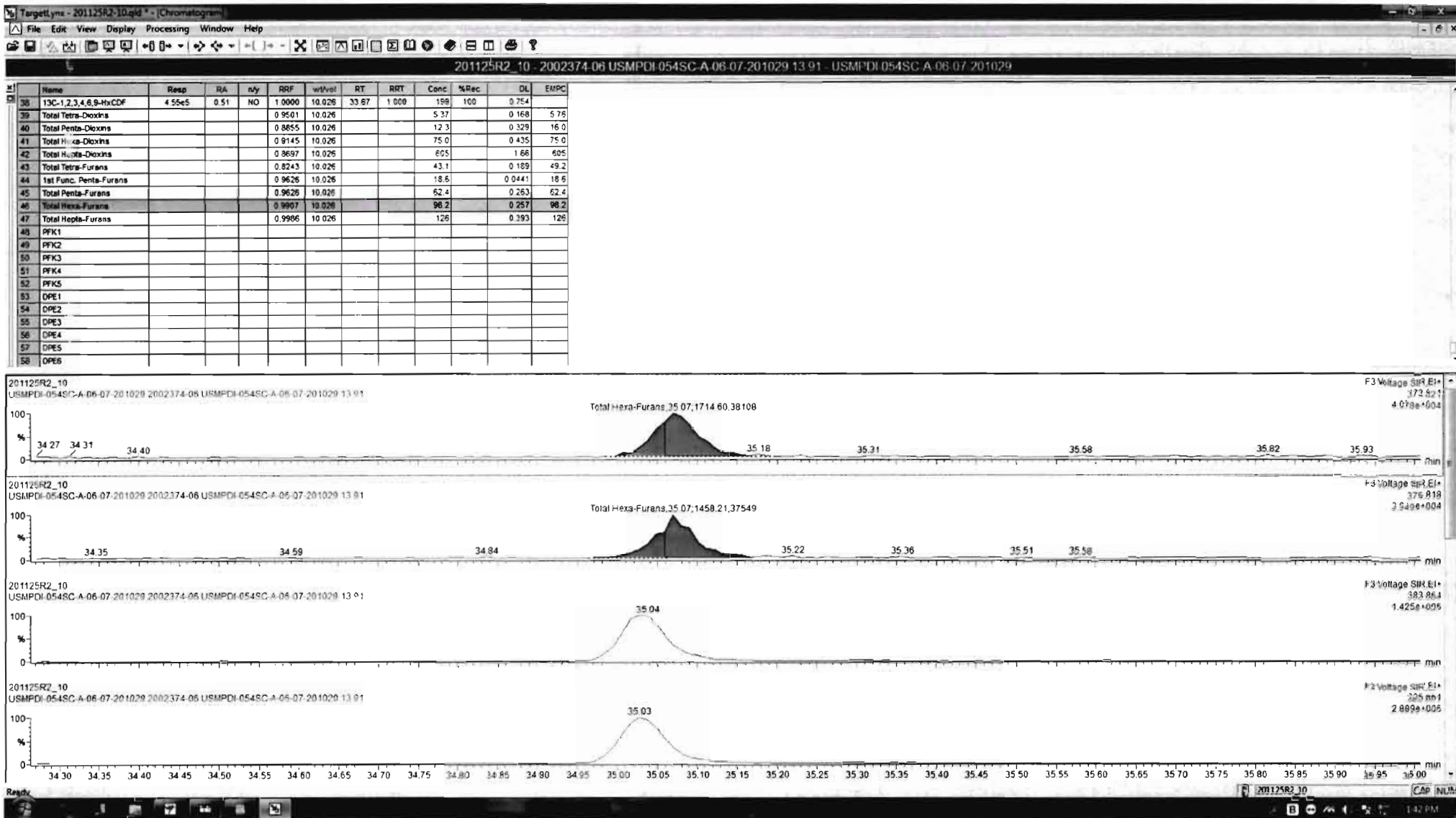
TargetLynx - 201125R2_10.qld - [Chromatogram]

File Edit View Display Processing Window Help

201125R2_10 2002374.06 USMPDI.054SC-A.06.07.201029 13.91 - USMPDI.054SC-A.06.07.201029

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	4.55e5	0.51	NO	1.0000	10.026	33.67	1.000	199	100	0.754
39	Total Tetra-Dioxins			0.9501	10.026			5.37	0.168	5.75	
40	Total Penta-Dioxins			0.8855	10.026			12.3	0.329	16.0	
41	Total Hexa-Dioxins			0.9145	10.026			75.0	0.435	75.0	
42	Total Hepta-Dioxins			0.8697	10.026			695	1.56	695	
43	Total Tetra-Furans			0.8243	10.026			43.1	0.159	49.2	
44	Total Func. Penta-Furans			0.9626	10.026			18.6	0.0441	18.6	
45	Total Penta-Furans			0.9626	10.026			62.4	0.263	62.4	
46	Total Hexa-Furans			0.9907	10.026			98.2	0.257	98.6	
47	Total Hepta-Furans			0.9986	10.026			126	0.393	126	
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										



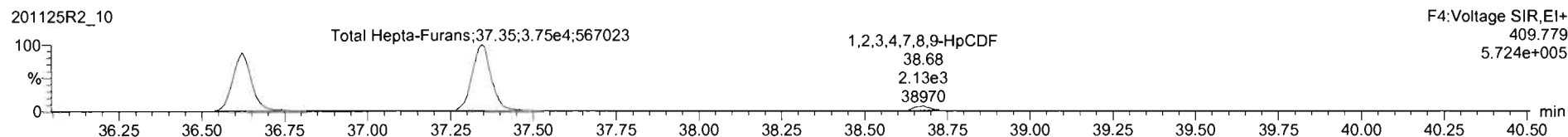
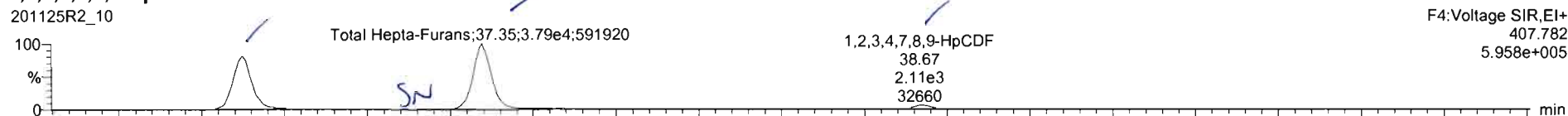


Dataset: Untitled

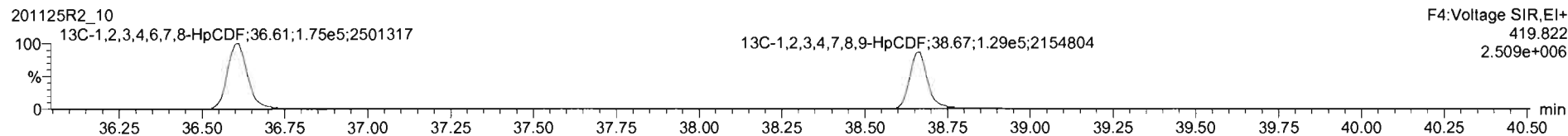
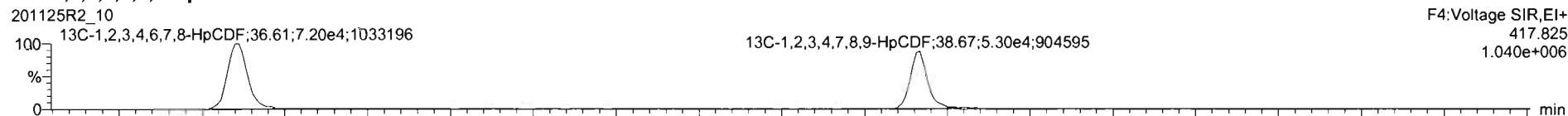
Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_10, Date: 26-Nov-2020, Time: 04:15:46, ID: 2002374-06 USMPDI-054SC-A-06-07-201029 13.91, Description: USMPDI-054SC-A-06-07-201029

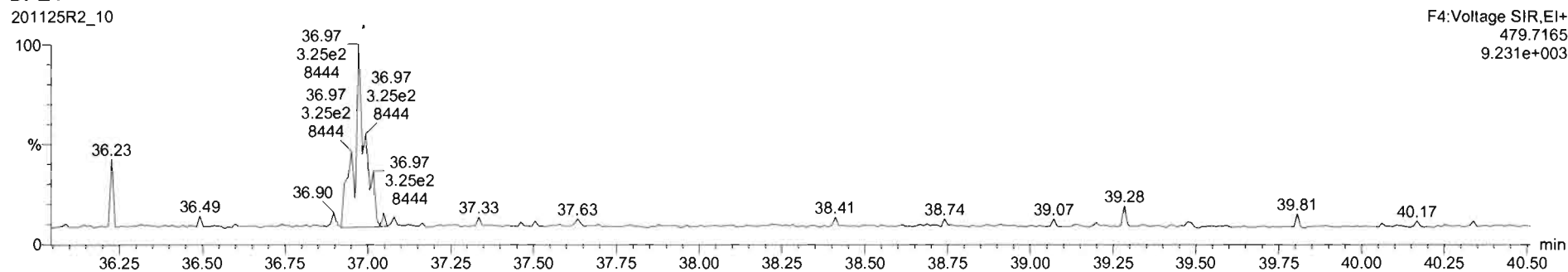
1,2,3,4,6,7,8-HpCDF

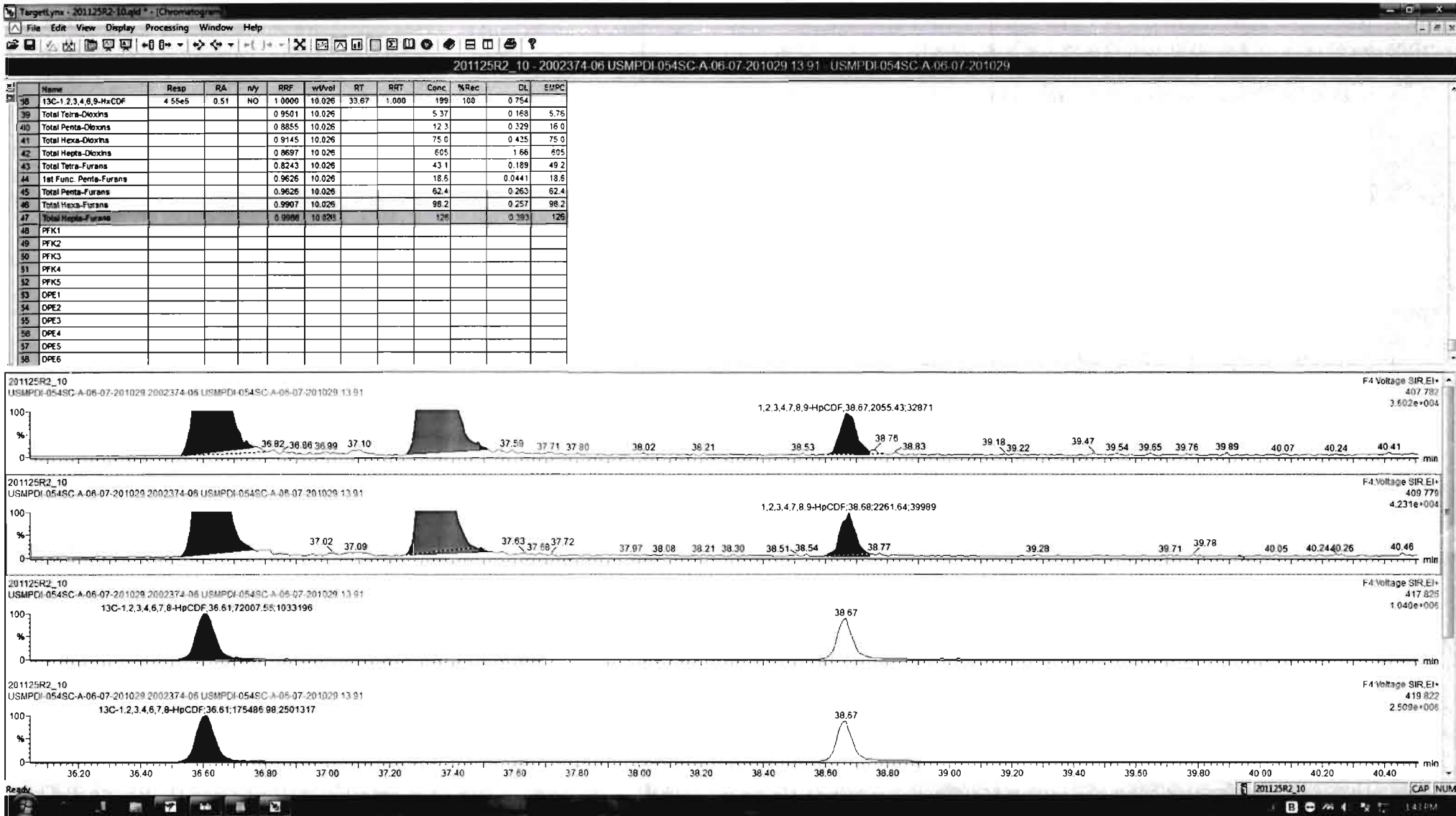


13C-1,2,3,4,6,7,8-HpCDF



DPE4



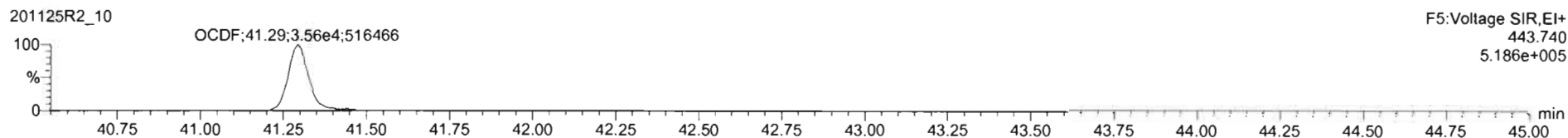
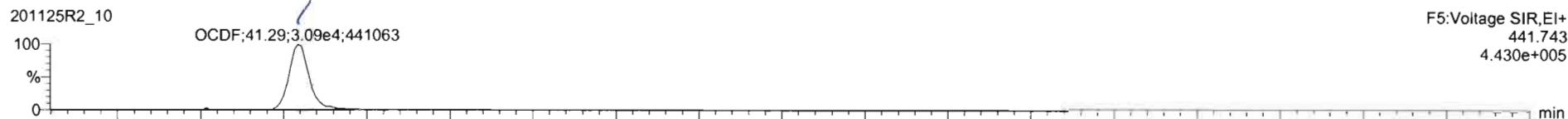


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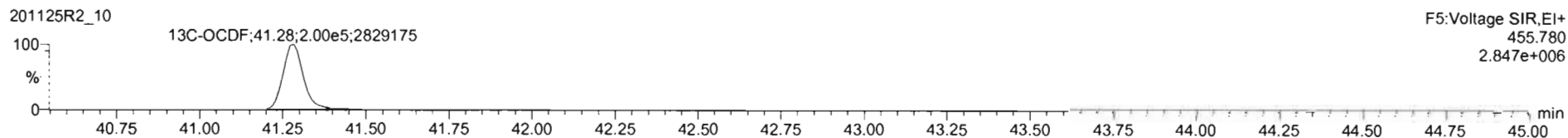
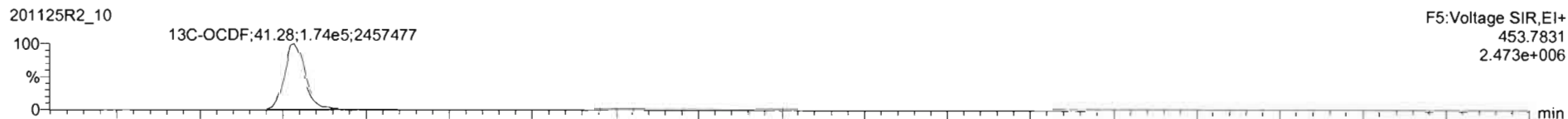
Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
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Name: 201125R2_10, Date: 26-Nov-2020, Time: 04:15:46, ID: 2002374-06 USMPDI-054SC-A-06-07-201029 13.91, Description: USMPDI-054SC-A-06-07-201029

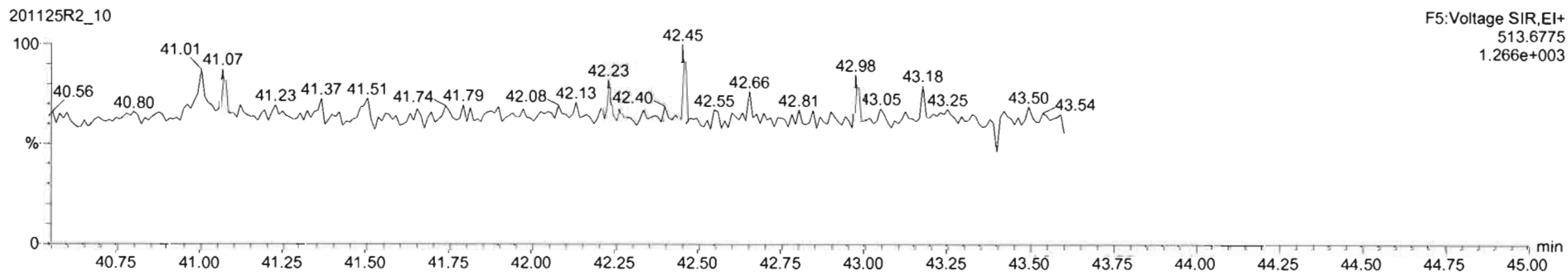
OCDF



13C-OCDF



DPE5

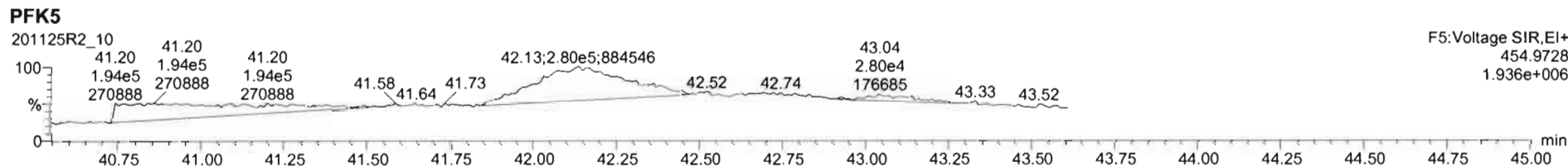
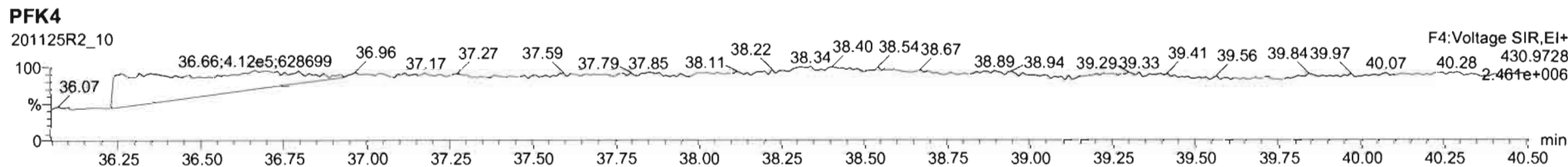
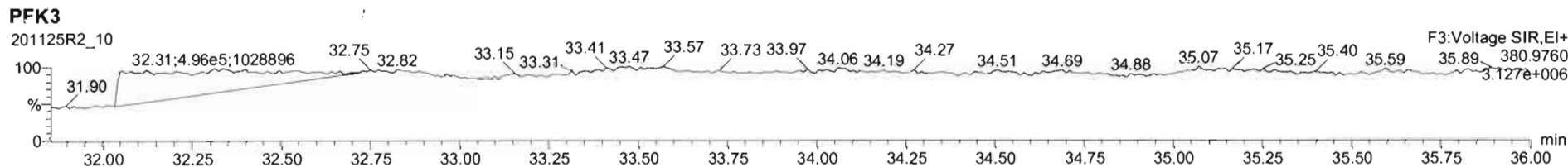
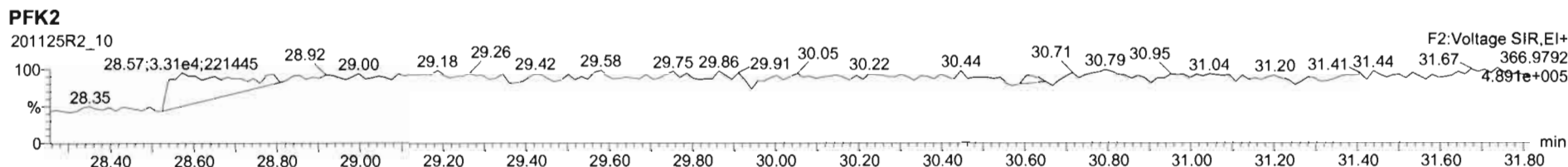
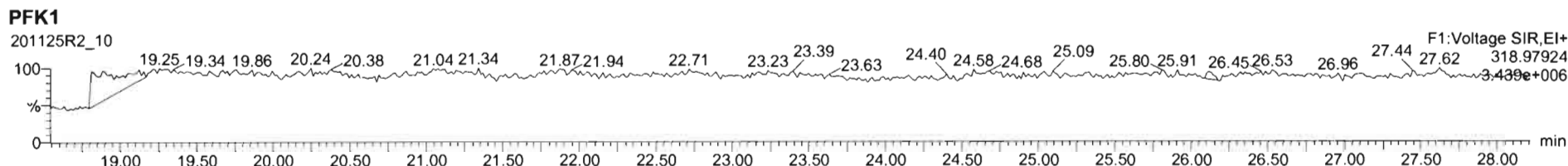


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Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_10, Date: 26-Nov-2020, Time: 04:15:46, ID: 2002374-06 USMPDI-054SC-A-06-07-201029 13.91, Description: USMPDI-054SC-A-06-07-201029



Dataset: U:\VG12.PRO\Results\201125R2\201125R2-11.qld

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Printed: Tuesday, December 01, 2020 1:55:13 PM Pacific Standard Time

GRB 12/01/2020

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

CT 12/04/2020

Name: 201125R2_11, Date: 26-Nov-2020, Time: 05:00:39, ID: 2002374-07 USMPDI-054SC-A-07-08-201029 13.37, Description: USMPDI-054SC-A-07-08-201029

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.950	10.068	26.097		1.001				0.108	
2	2 1,2,3,7,8-PeCDD			NO	0.885	10.068	30.816		1.000				0.154	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.068	34.143		1.000				0.149	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.068	34.260		1.000				0.148	
5	5 1,2,3,7,8,9-HxCDD			NO	0.934	10.068	34.537		1.000				0.166	
6	6 1,2,3,4,6,7,8-HpCDD	2.51e3	0.96	NO	0.870	10.068	38.038	38.06	1.000	1.001	2.2776		0.424	2.28
7	7 OCDD	2.33e4	0.89	NO	0.872	10.068	41.006	41.02	1.000	1.000	28.513		0.521	28.5
8	8 2,3,7,8-TCDF			NO	0.824	10.068	25.396		1.000				0.0542	
9	9 1,2,3,7,8-PeCDF	3.17e2	1.25	YES	0.963	10.068	29.556	29.58	1.000	1.001	0.10736		0.103	0.0980
10	10 2,3,4,7,8-PeCDF	4.81e2	1.23	YES	1.07	10.068	30.618	30.62	1.000	1.000	0.14813		0.0587	0.134
11	11 1,2,3,4,7,8-HxCDF	3.24e2	1.01	YES	0.953	10.068	33.227	33.25	1.000	1.001	0.15981		0.0796	0.145
12	12 1,2,3,6,7,8-HxCDF	1.64e2	1.16	NO	1.01	10.068	33.366	33.38	1.000	1.000	0.072139		0.0757	0.0721
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	10.068	34.029		1.000				0.0818	
14	14 1,2,3,7,8,9-HxCDF			NO	0.951	10.068	35.027		1.000				0.137	
15	15 1,2,3,4,6,7,8-HpCDF	6.75e2	1.11	NO	0.999	10.068	36.615	36.64	1.000	1.001	0.44758		0.144	0.448
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	10.068	38.666		1.000				0.142	
17	17 OCDF	6.92e2	0.84	NO	0.868	10.068	41.301	41.33	1.000	1.001	0.67695		0.133	0.677
18	18 13C-2,3,7,8-TCDD	4.27e5	0.83	NO	1.11	10.068	26.073	26.07	1.030	1.030	156.90	79.0	0.361	
19	19 13C-1,2,3,7,8-PeCDD	3.05e5	0.66	NO	0.859	10.068	30.792	30.81	1.216	1.217	144.72	72.9	0.279	
20	20 13C-1,2,3,4,7,8-HxCDD	2.84e5	1.36	NO	0.700	10.068	34.143	34.13	1.014	1.014	141.85	71.4	0.597	
21	21 13C-1,2,3,6,7,8-HxCDD	3.42e5	1.26	NO	0.833	10.068	34.281	34.25	1.018	1.017	143.37	72.2	0.502	
22	22 13C-1,2,3,7,8,9-HxCDD	3.15e5	1.28	NO	0.762	10.068	34.524	34.53	1.025	1.025	144.75	72.9	0.548	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.05	NO	0.650	10.068	38.009	38.04	1.129	1.130	135.59	68.3	0.617	
24	24 13C-OCDD	3.72e5	0.94	NO	0.539	10.068	40.976	41.01	1.217	1.218	241.30	60.7	0.706	
25	25 13C-2,3,7,8-TCDF	6.95e5	0.78	NO	0.981	10.068	25.395	25.39	1.003	1.003	141.46	71.2	0.378	
26	26 13C-1,2,3,7,8-PeCDF	6.09e5	1.59	NO	0.792	10.068	29.524	29.55	1.166	1.167	153.74	77.4	0.801	
27	27 13C-2,3,4,7,8-PeCDF	6.03e5	1.62	NO	0.778	10.068	30.582	30.62	1.208	1.210	154.94	78.0	0.815	
28	28 13C-1,2,3,4,7,8-HxCDF	4.22e5	0.51	NO	0.954	10.068	33.234	33.23	0.987	0.987	154.66	77.9	0.823	
29	29 13C-1,2,3,6,7,8-HxCDF	4.47e5	0.50	NO	1.01	10.068	33.365	33.37	0.991	0.991	155.35	78.2	0.780	
30	30 13C-2,3,4,6,7,8-HxCDF	4.20e5	0.50	NO	0.921	10.068	34.035	34.03	1.011	1.010	159.19	80.1	0.852	

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-11.qld

Last Altered: Tuesday, December 01, 2020 1:51:55 PM Pacific Standard Time

Printed: Tuesday, December 01, 2020 1:55:13 PM Pacific Standard Time

Name: 201125R2_11, Date: 26-Nov-2020, Time: 05:00:39, ID: 2002374-07 USMPDI-054SC-A-07-08-201029 13.37, Description: USMPDI-054SC-A-07-08-201029

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	3.42e5	0.51	NO	0.803	10.068	35.032	35.03	1.040	1.040	148.93	75.0	0.976	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.00e5	0.44	NO	0.735	10.068	36.601	36.61	1.087	1.087	142.55	71.8	0.673	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.14e5	0.41	NO	0.568	10.068	38.639	38.67	1.147	1.148	131.80	66.4	0.872	
34	34 13C-OCDF	4.68e5	0.87	NO	0.629	10.068	41.259	41.29	1.225	1.226	259.86	65.4	0.805	
35	35 37Cl-2,3,7,8-TCDD	2.18e5			1.09	10.068	26.073	26.10	1.030	1.031	81.550	103	0.0819	
36	36 13C-1,2,3,4-TCDD	4.87e5	0.84	NO	1.00	10.068	25.370	25.31	1.000	1.000	198.65	100	0.400	
37	37 13C-1,2,3,4-TCDF	9.95e5	0.80	NO	1.00	10.068	23.870	23.81	1.000	1.000	198.65	100	0.371	
38	38 13C-1,2,3,4,6,9-HxCDF	5.68e5	0.50	NO	1.00	10.068	33.710	33.67	1.000	1.000	198.65	100	0.784	
39	39 Total Tetra-Dioxins				0.950	10.068	24.620		0.000				0.0503	
40	40 Total Penta-Dioxins				0.885	10.068	29.960		0.000				0.0717	
41	41 Total Hexa-Dioxins				0.915	10.068	33.635		0.000		0.77515		0.161	1.27
42	42 Total Hepta-Dioxins				0.870	10.068	37.640		0.000		6.0378		0.424	6.04
43	43 Total Tetra-Furans				0.824	10.068	23.610		0.000		0.00000		0.0227	0.158
44	44 1st Func. Penta-Furans				0.963	10.068	26.930		0.000		0.00000		0.0127	0.235
45	45 Total Penta-Furans				0.963	10.068	29.275		0.000		0.23934		0.107	0.549
46	46 Total Hexa-Furans				0.991	10.068	33.555		0.000		0.29635		0.0896	0.710
47	47 Total Hepta-Furans				0.999	10.068	37.835		0.000		1.0063		0.150	1.01

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-11.qld

Last Altered: Tuesday, December 01, 2020 1:51:55 PM Pacific Standard Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R2_11, Date: 26-Nov-2020, Time: 05:00:39, ID: 2002374-07 USMPDI-054SC-A-07-08-201029 13.37, Description: USMPDI-054SC-A-07-08-201029

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.51	1.307e4	8.302e3	6.403e2	4.791e2	1.34	NO	1.119e3	0.77515	0.77515	0.161
2	Total Hexa-Dioxins	33.42	6.977e3	5.675e3	4.183e2	3.034e2	1.38	NO	0.000e0	0.00000	0.49975	0.161

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.01	2.182e4	2.389e4	2.145e3	2.004e3	1.07	NO	4.149e3	3.7602	3.7602	0.424
2	1,2,3,4,6,7,8-HpCDD	38.06	1.656e4	1.763e4	1.231e3	1.282e3	0.96	NO	2.513e3	2.2776	2.2776	0.424

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.37	5.244e3	3.179e3	2.605e2	2.580e2	1.01	YES	0.000e0	0.00000	0.15830	0.0542

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	26.94	6.072e3	4.635e3	4.200e2	3.496e2	1.20	YES	0.000e0	0.00000	0.23518	0.0275

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-11.qld

Last Altered: Tuesday, December 01, 2020 1:51:55 PM Pacific Standard Time

Printed: Tuesday, December 01, 2020 1:55:13 PM Pacific Standard Time

Name: 201125R2_11, Date: 26-Nov-2020, Time: 05:00:39, ID: 2002374-07 USMPDI-054SC-A-07-08-201029 13.37, Description: USMPDI-054SC-A-07-08-201029

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.59	7.302e3	5.041e3	4.133e2	2.900e2	1.43	NO	7.032e2	0.23934	0.23934	0.107
2	Total Penta-Furans	29.22	2.631e3	3.722e3	1.374e2	1.509e2	0.91	YES	0.000e0	0.00000	0.076936	0.107
3	1,2,3,7,8-PeCDF	29.58	3.449e3	2.074e3	1.758e2	1.412e2	1.25	YES	3.170e2	0.00000	0.097956	0.103
4	2,3,4,7,8-PeCDF	30.62	5.520e3	3.086e3	2.649e2	2.158e2	1.23	YES	4.806e2	0.00000	0.13430	0.0987

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.14	4.652e3	4.088e3	2.494e2	2.066e2	1.21	NO	4.559e2	0.22421	0.22421	0.0896
2	Total Hexa-Furans	32.78	7.541e3	5.112e3	3.017e2	3.212e2	0.94	YES	0.000e0	0.00000	0.26805	0.0896
3	1,2,3,4,7,8-HxCDF	33.25	3.510e3	3.182e3	1.629e2	1.608e2	1.01	YES	3.237e2	0.00000	0.14528	0.0796
4	1,2,3,6,7,8-HxCDF	33.38	2.050e3	1.576e3	8.781e1	7.586e1	1.16	NO	1.637e2	0.072139	0.072139	0.0757

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	36.64	3.712e3	3.848e3	3.548e2	3.201e2	1.11	NO	6.749e2	0.44758	0.44758	0.144
2	Total Hepta-Furans	37.35	4.130e3	4.067e3	3.562e2	3.658e2	0.97	NO	7.219e2	0.55876	0.55876	0.150

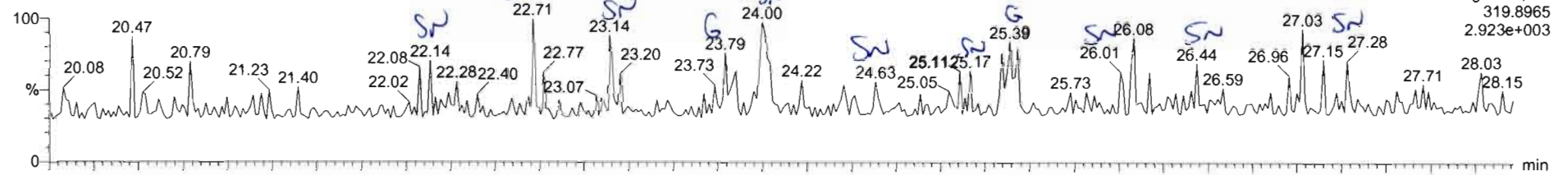
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Name: 201125R2_11, Date: 26-Nov-2020, Time: 05:00:39, ID: 2002374-07 USMPDI-054SC-A-07-08-201029 13.37, Description: USMPDI-054SC-A-07-08-201029

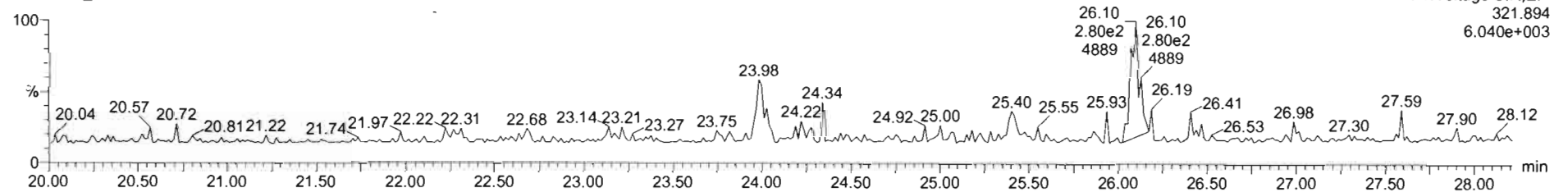
2,3,7,8-TCDD

201125R2_11



F1: Voltage SIR, EI+
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2.923e+003

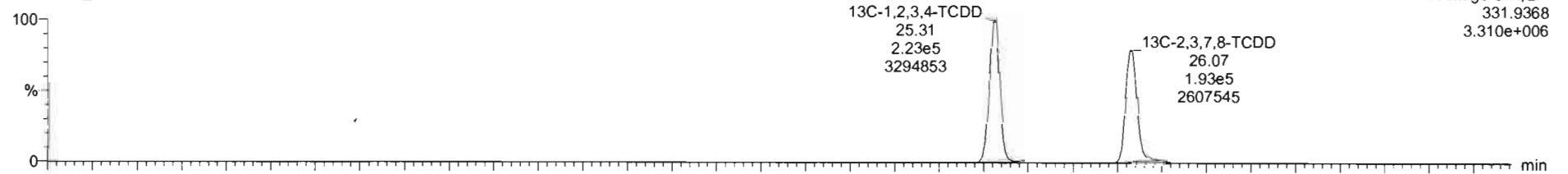
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F1: Voltage SIR, EI+
321.894
6.040e+003

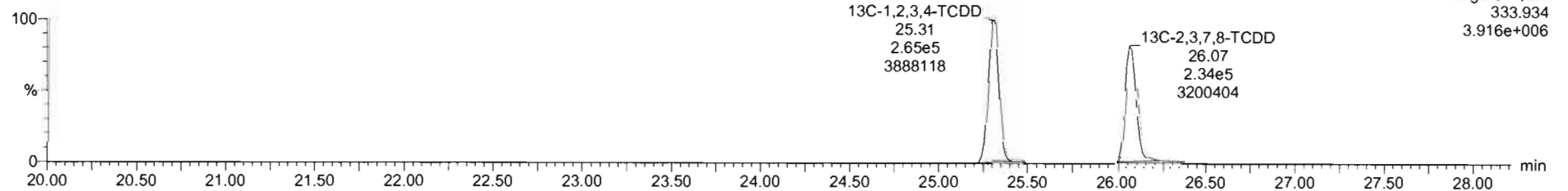
13C-2,3,7,8-TCDD

201125R2_11



F1: Voltage SIR, EI+
331.9368
3.310e+006

201125R2_11



F1: Voltage SIR, EI+
333.934
3.916e+006

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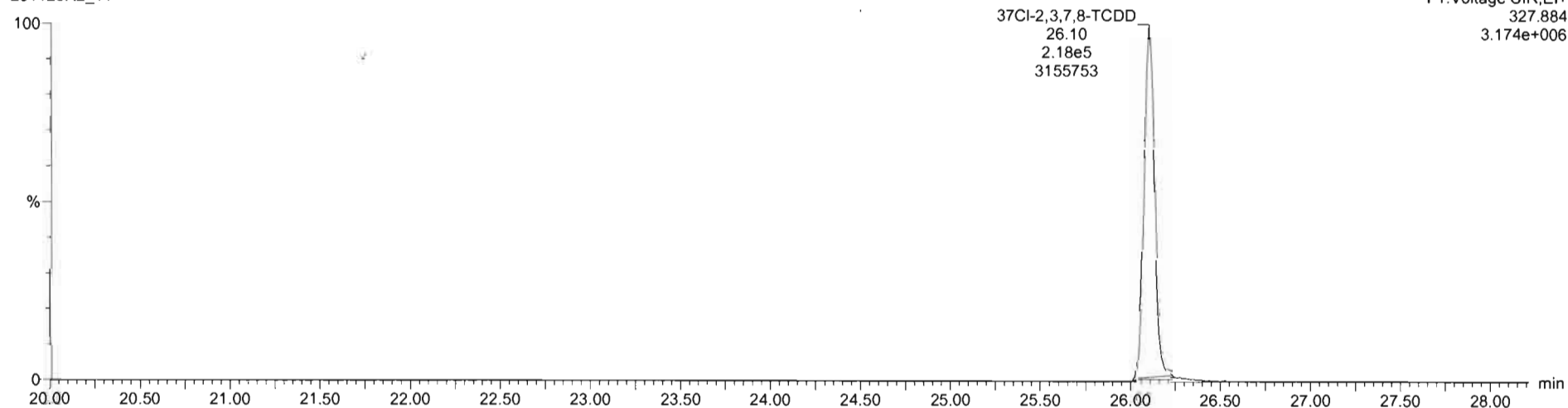
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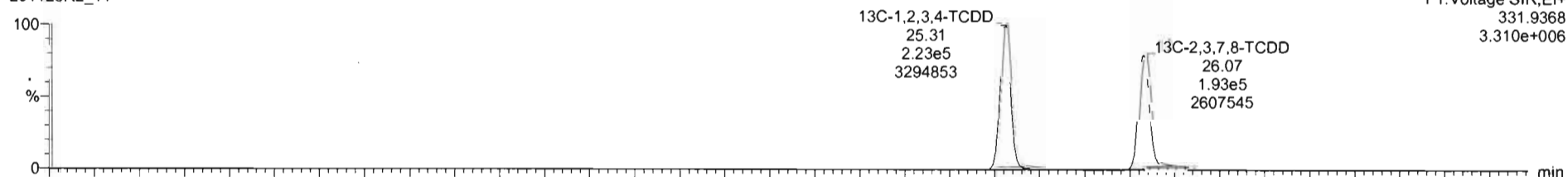
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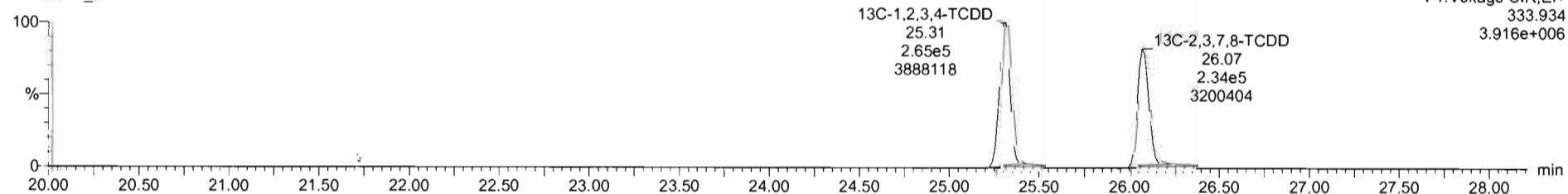


13C-1,2,3,4-TCDD

201125R2_11



201125R2_11



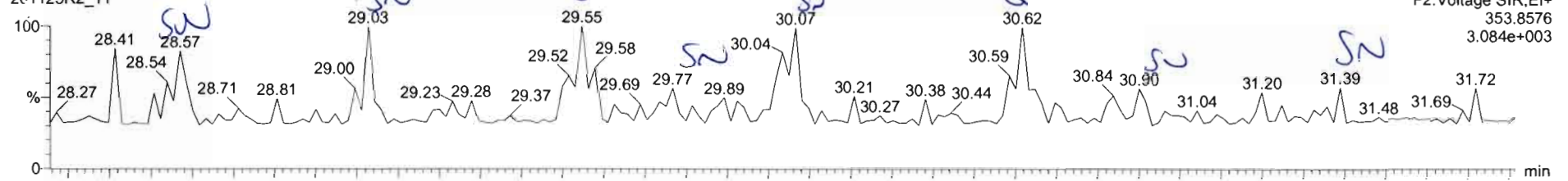
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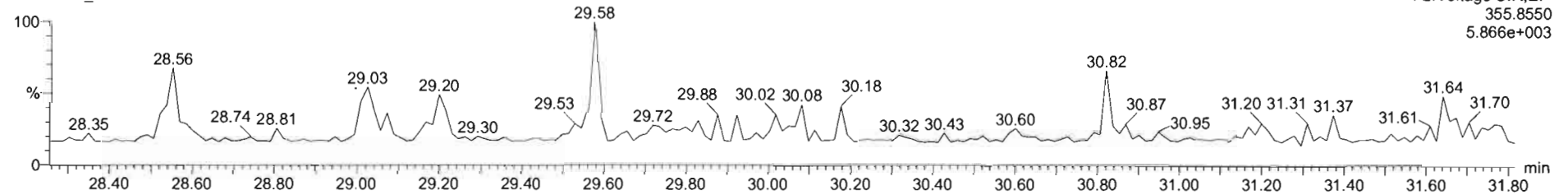
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1,2,3,7,8-PeCDD

201125R2_11

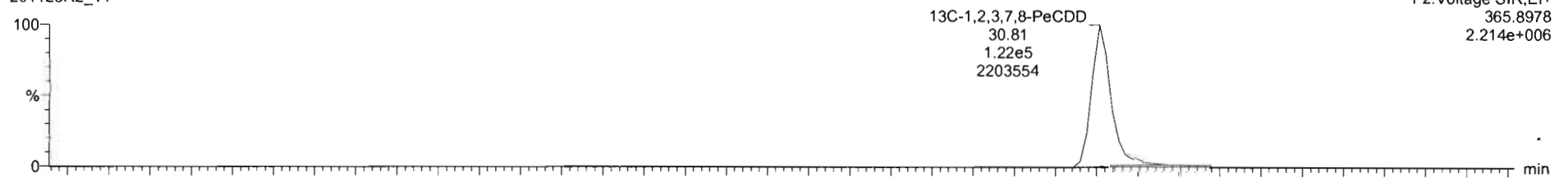


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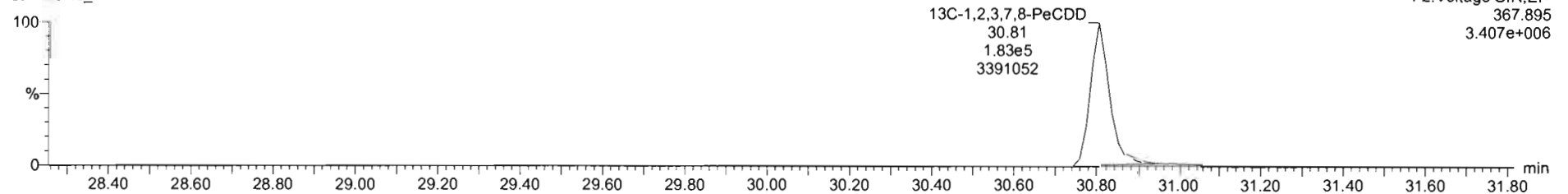


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201125R2_11



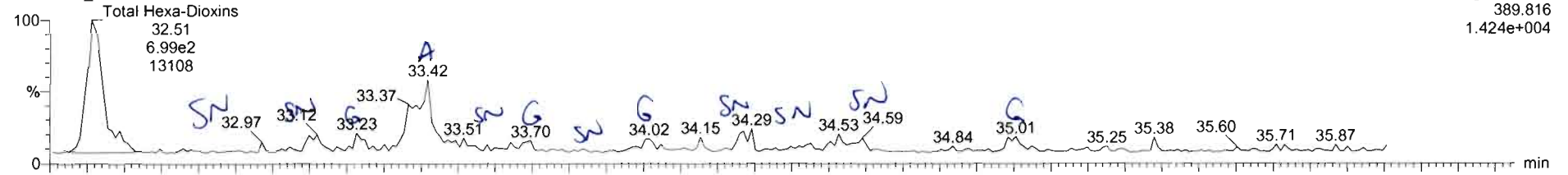
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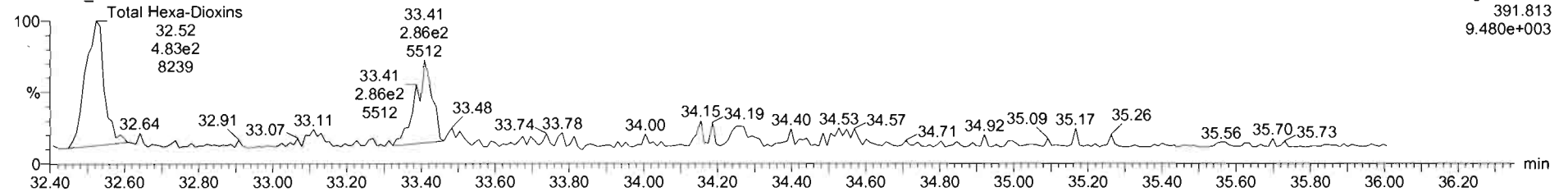
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1,2,3,4,7,8-HxCDD

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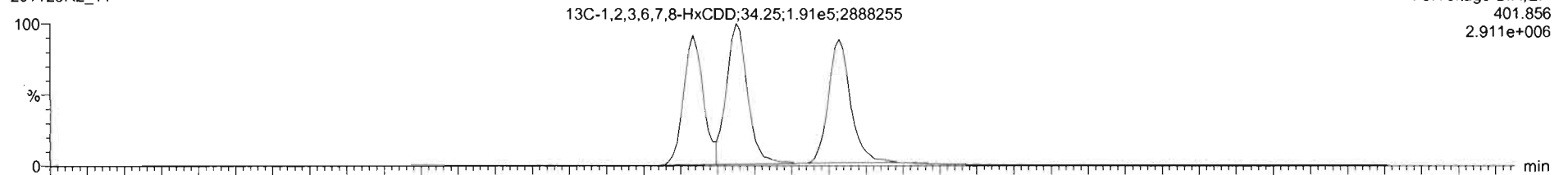


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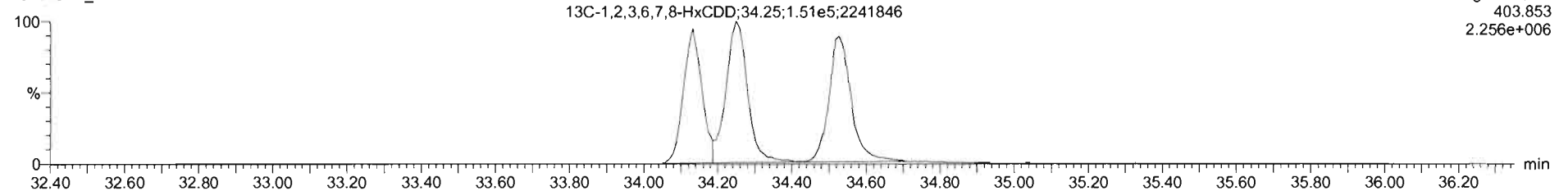


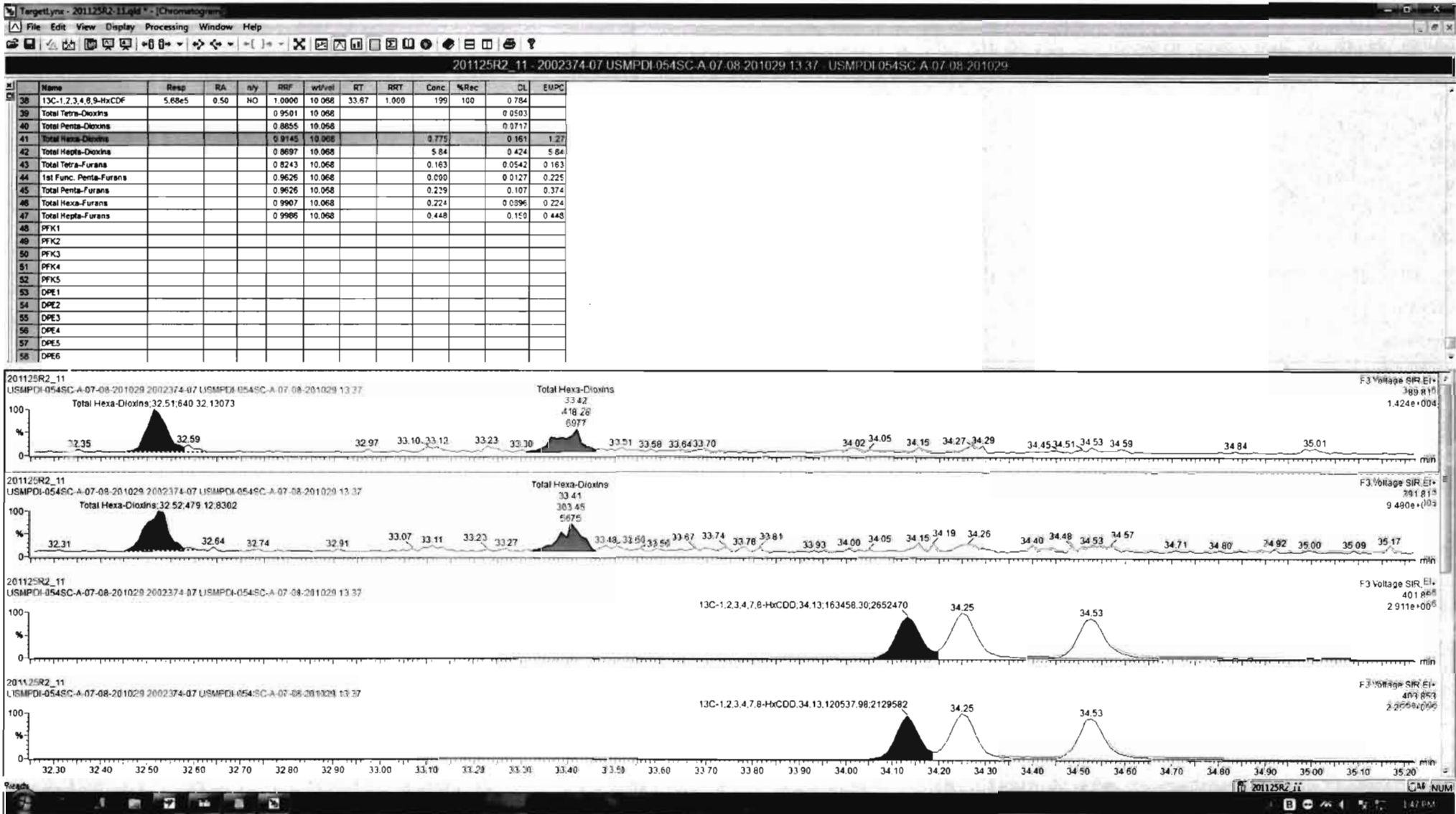
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201125R2_11



201125R2_11





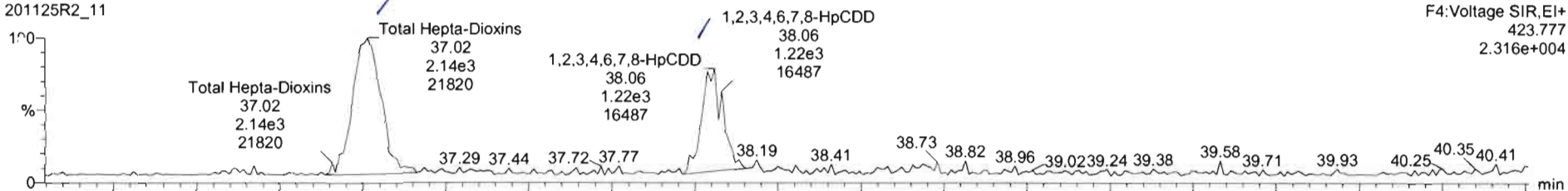
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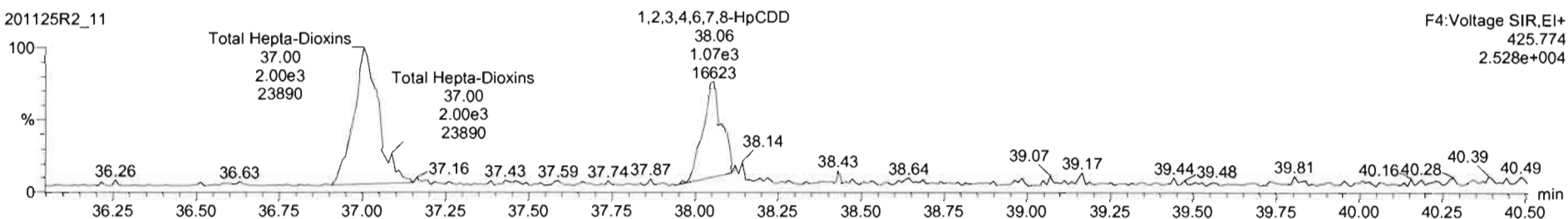
1,2,3,4,6,7,8-HpCDD

201125R2_11



F4: Voltage SIR, EI+
423.777
2.316e+004

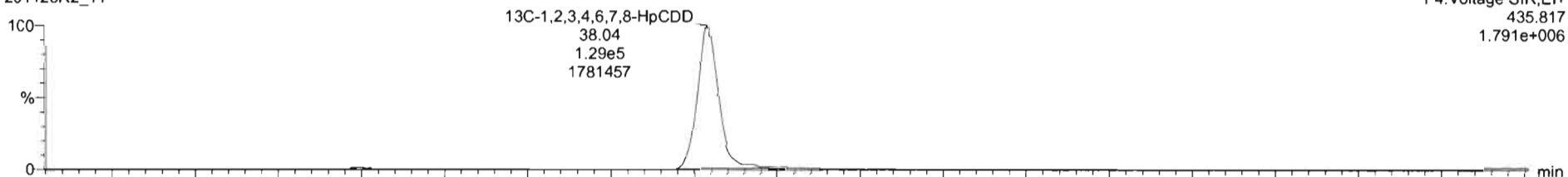
201125R2_11



F4: Voltage SIR, EI+
425.774
2.528e+004

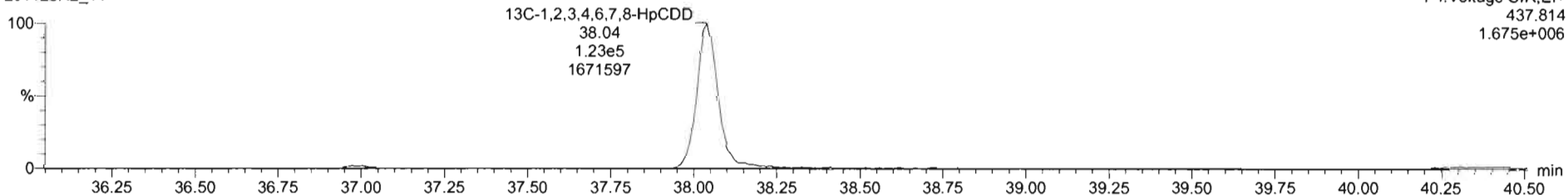
13C-1,2,3,4,6,7,8-HpCDD

201125R2_11



F4: Voltage SIR, EI+
435.817
1.791e+006

201125R2_11



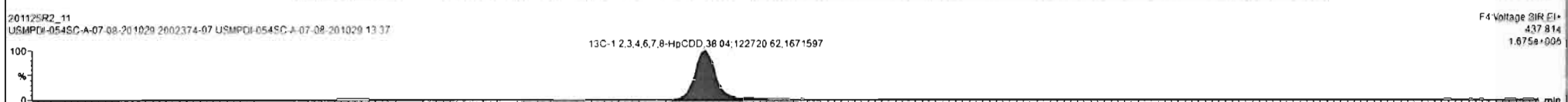
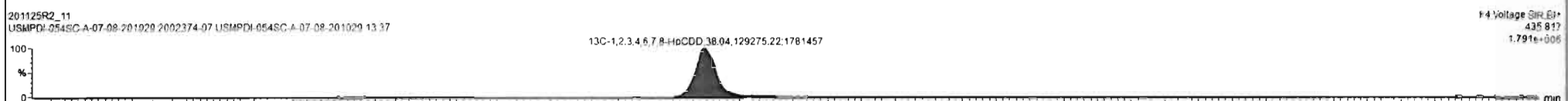
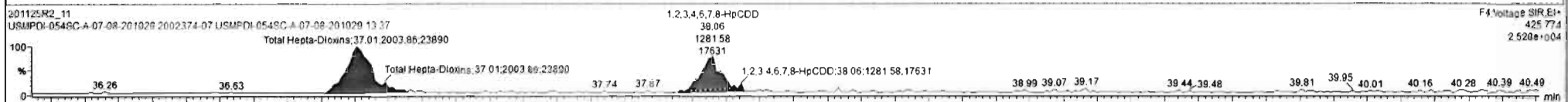
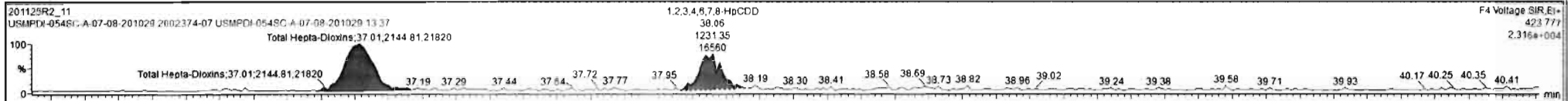
F4: Voltage SIR, EI+
437.814
1.675e+006

TargetLynx - 201125R2_11.qtd - [Chromatogram]

File Edit View Display Processing Window Help

201125R2_11 - 2002374.07 USMPDI.054SC.A.07.08.201029.13.37 USMPDI.054SC.A.07.08.201029

#	Name	Resp	RA	n/y	RRF	wt/wot	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HxCDF	5.88e5	0.50	NO	1.0000	10.068	33.87	1.000	199	100	0.784	
39	Total Tetra-Dioxins				0.9501	10.068					0.0503	
40	Total Penta-Dioxins				0.8855	10.068					0.0717	
41	Total Hexa-Dioxins				0.9145	10.068			0.775		0.161	1.27
42	Total Hepta-Dioxins				0.9897	10.068			6.04		0.424	6.04
43	Total Tetra-Furans				0.8243	10.068			0.163		0.0542	0.163
44	1st Func. Penta-Furans				0.9626	10.068			0.000		0.0127	0.225
45	Total Penta-Furans				0.9626	10.068			0.239		0.107	0.374
46	Total Hexa-Furans				0.9907	10.068			0.224		0.0896	0.224
47	Total Hepta-Furans				0.9986	10.068			0.448		0.150	0.448
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											
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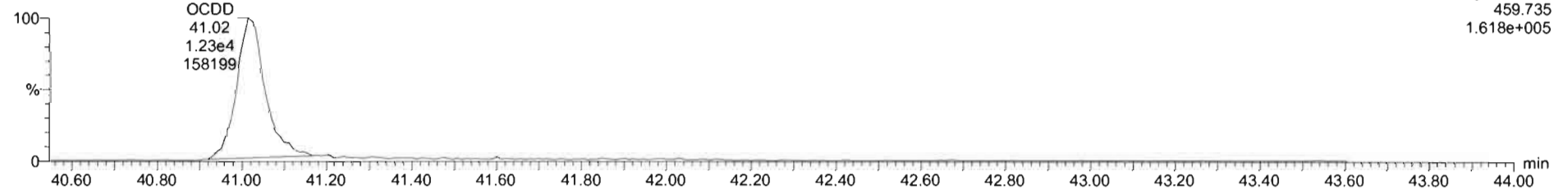
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OCDD

201125R2_11

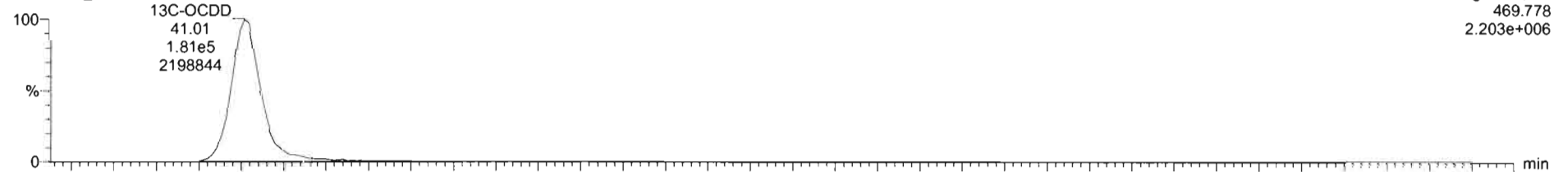


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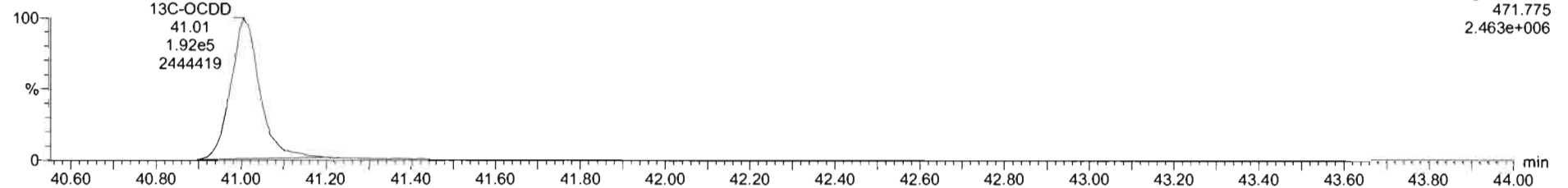


13C-OCDD

201125R2_11



201125R2_11

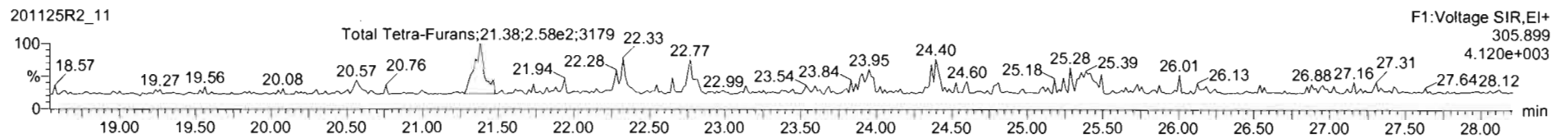
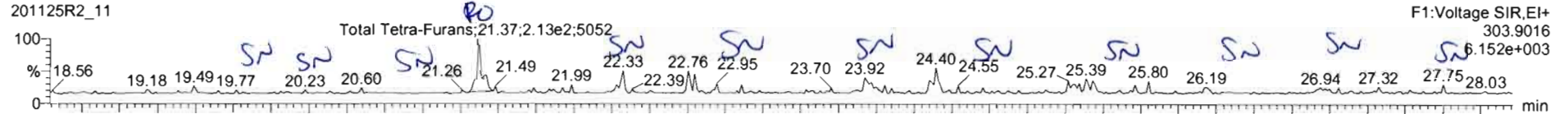


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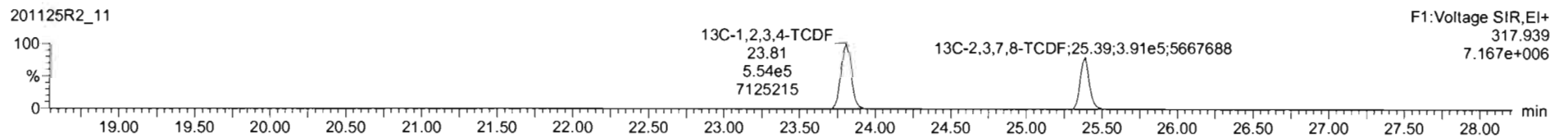
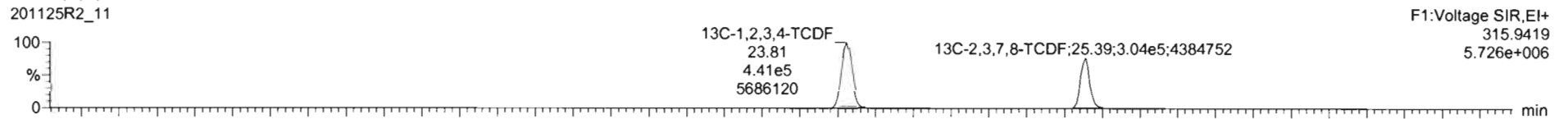
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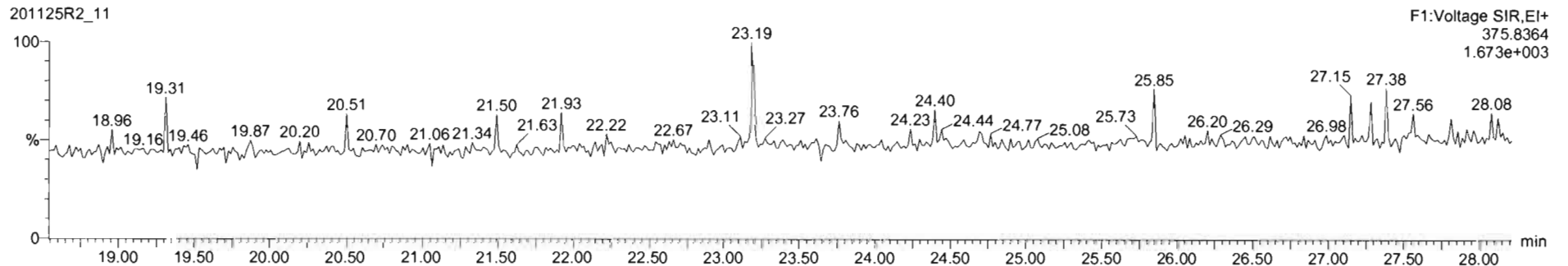
2,3,7,8-TCDF



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



DPE1

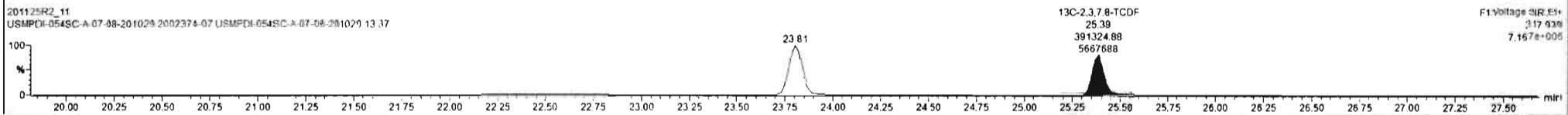
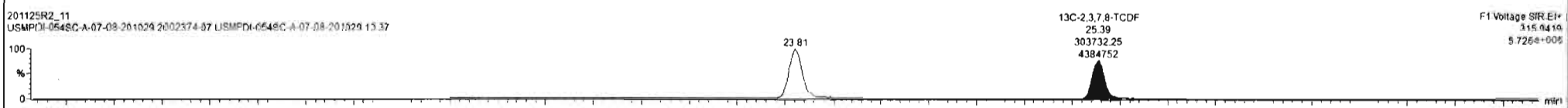
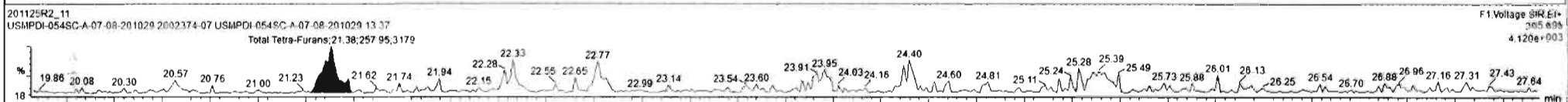
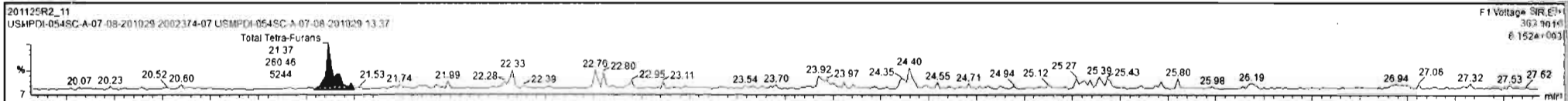


TargetLynx - 201125R2_11.qld - [Chromatogram]

File Edit View Display Processing Window Help

201125R2_11 - 2002374.07 USMPDI-054SC-A-07-08-201029 13.37 USMPDI-054SC-A-07-08-201029

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	5.68e5	0.50	NO	1.0000	10.068	33.97	1.000	199	100	0.784
39	Total Tetra-Dioxins				0.9501	10.068					0.0503
40	Total Penta-Dioxins				0.8855	10.068					0.0717
41	Total Hexa-Dioxins				0.9145	10.068		0.775			0.161 1.27
42	Total Hepta-Dioxins				0.8697	10.068		6.04			0.424 6.04
43	Total Tetra-Furans				0.8243	10.068		0.000			0.0227 0.158
44	1st Func. Penta-Furans				0.9626	10.068		0.000			0.0127 0.225
45	Total Penta-Furans				0.9626	10.068		0.239			0.107 0.374
46	Total Hexa-Furans				0.9907	10.068		0.224			0.0896 0.224
47	Total Hepta-Furans				0.9986	10.068		0.448			0.150 0.448
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										



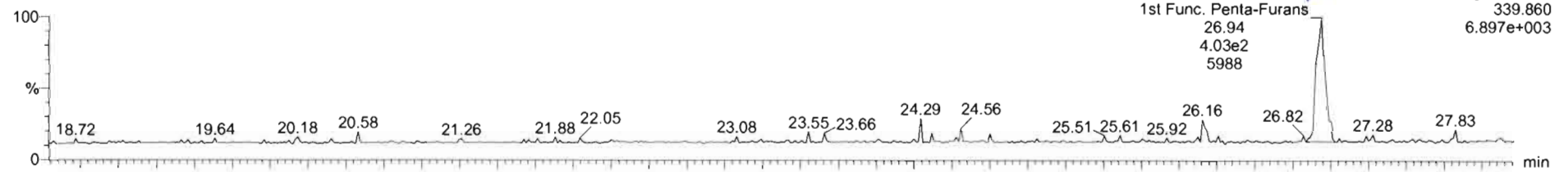
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Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

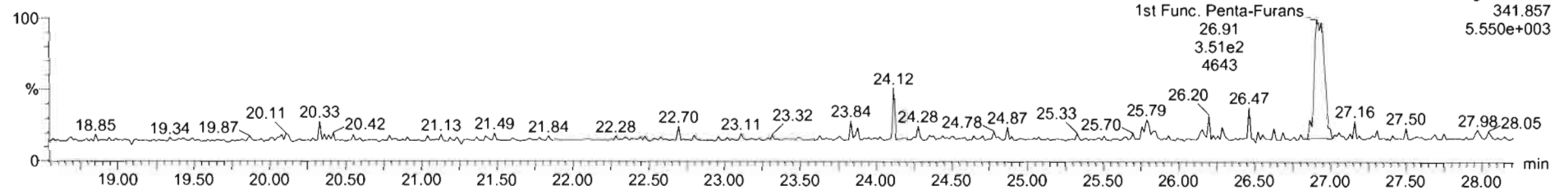
Name: 201125R2_11, Date: 26-Nov-2020, Time: 05:00:39, ID: 2002374-07 USMPDI-054SC-A-07-08-201029 13.37, Description: USMPDI-054SC-A-07-08-201029

1st Func. Penta-Furans

201125R2_11

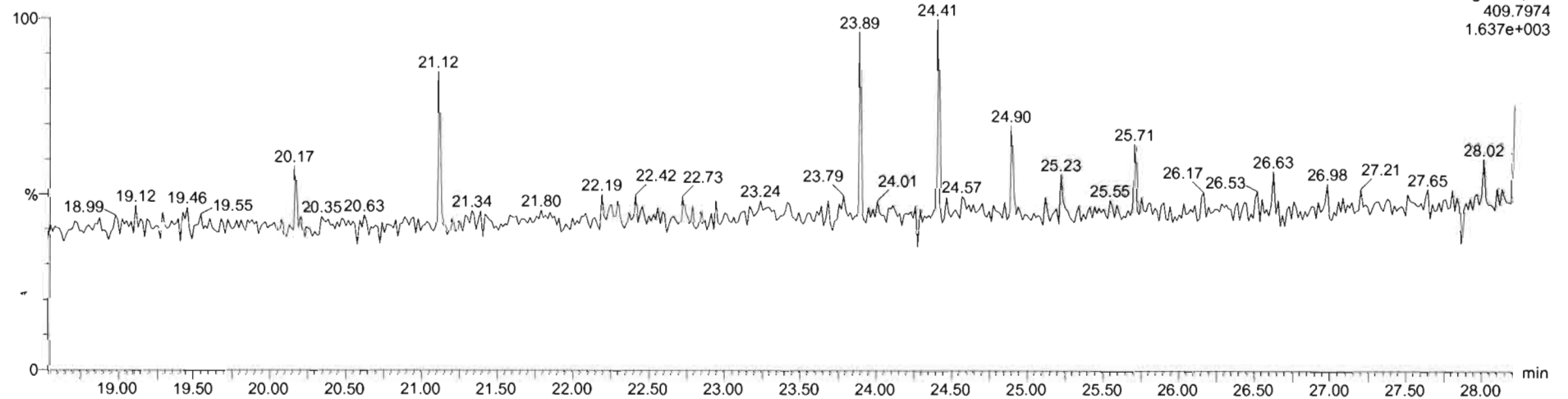


201125R2_11



DPE6

201125R2_11



TargetLynx - 201125R2-11.qtd - Chromatogram

File Edit View Display Processing Window Help

201125R2_11 - 2002374-07 USMPDI-054SC-A-07-08-201029-13-37 - USMPDI-054SC-A-07-08-201029

#	Name	Reso	RA	n/y	RRF	wtVal	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,8,9-HxCDF	5665	0.50	NO	1.0090	10.068	33.67	1.000	199	100	0.784	
39	Total Tetra-Dioxins				0.9501	10.068					0.0503	
40	Total Penta-Dioxins				0.8855	10.068					0.0717	
41	Total Hexa-Dioxins				0.9145	10.068			0.775		0.161	1.27
42	Total Hepta-Dioxins				0.8697	10.068			5.04		0.424	6.04
43	Total Tetra-Furans				0.8243	10.068			0.000		0.0227	0.158
44	1st Func. Penta-Furans				0.9626	10.068			0.000		0.0127	0.236
45	Total Penta-Furans				0.9626	10.068			0.239		0.107	0.374
46	Total Hexa-Furans				0.9907	10.068			0.224		0.0896	0.224
47	Total Hepta-Furans				0.9985	10.068			0.448		0.150	0.448
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											
58	DPE6											

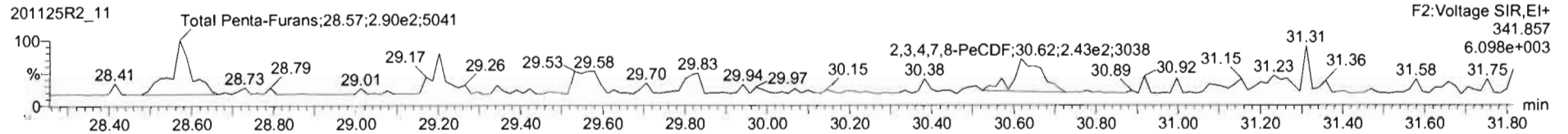
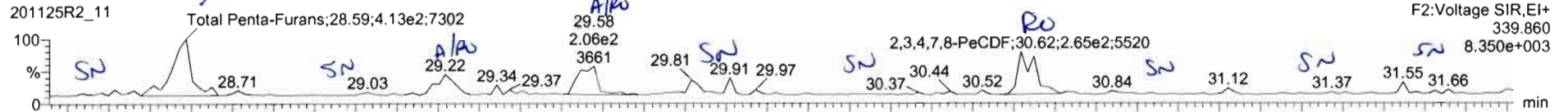


Dataset: Untitled

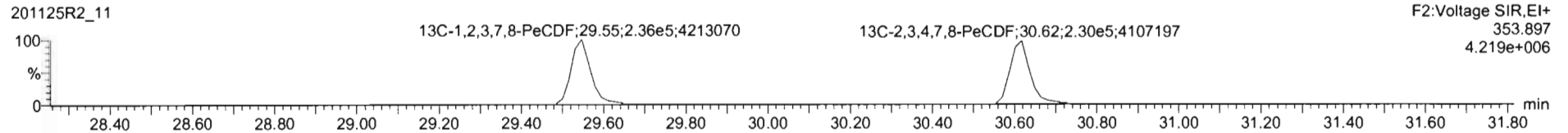
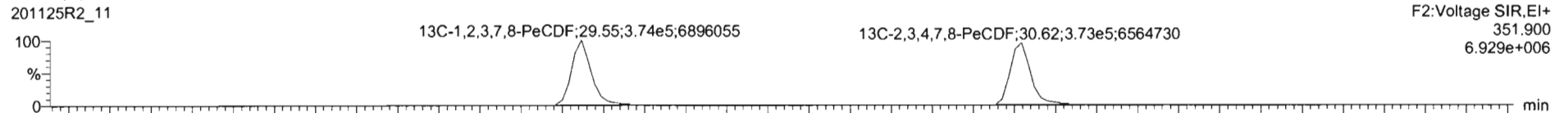
Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
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Name: 201125R2_11, Date: 26-Nov-2020, Time: 05:00:39, ID: 2002374-07 USMPDI-054SC-A-07-08-201029 13.37, Description: USMPDI-054SC-A-07-08-201029

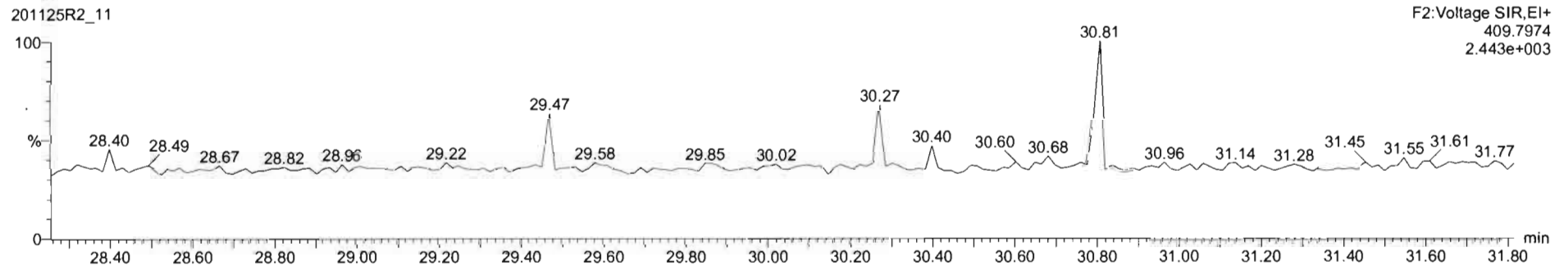
1,2,3,7,8-PeCDF



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



DPE2

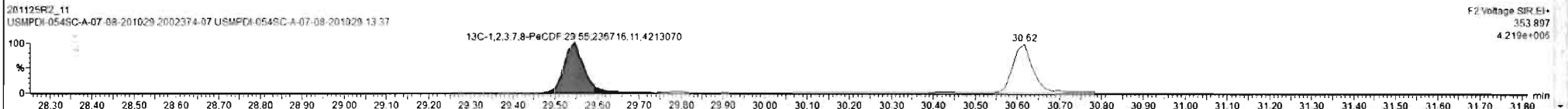
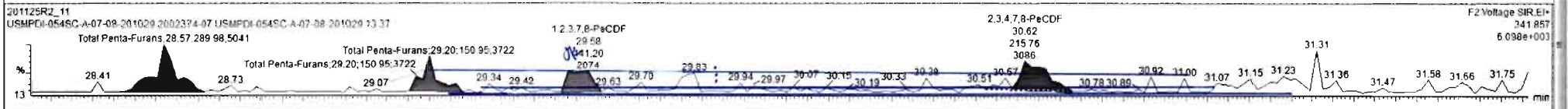
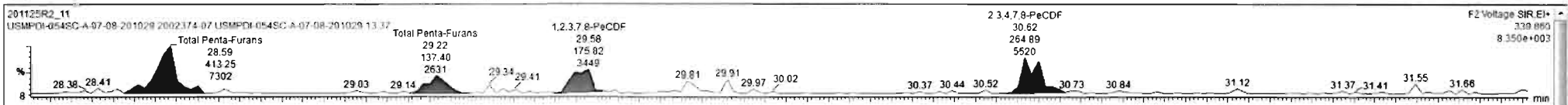


TargetLynx - 201125R2_11.qld - [Chromatogram]

File Edit View Display Processing Window Help

201125R2_11 - 2002374-07 USMPDI-054SC-A-07-08-201029 13 37 USMPDI-054SC-A-07-08-201029

Sl	Name	Resp	RA	n/y	RRF	wbVol	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,8,9-HxCDF	5.68e5	0.50	NO	1.0000	10.068	33.87	1.000	199	100	0.784	
39	Total Tri-Dioxins				0.9501	10.068					0.0503	
40	Total Penta-Dioxins				0.8855	10.068					0.0717	
41	Total Hexa-Dioxins				0.9145	10.068			0.775		0.181	1.27
42	Total Hepta-Dioxins				0.8697	10.068			6.04		0.424	6.04
43	Total Tetra-Furans				0.8243	10.068			0.000		0.0227	0.158
44	1st Func. Penta-Furans				0.9626	10.068			0.000		0.0127	0.235
45	Total Penta-Furans				0.9626	10.068			0.239		0.197	0.548
46	Total Hexa-Furans				0.9907	10.068			0.224		0.0896	0.224
47	Total Hepta-Furans				0.9986	10.068			0.448		0.150	0.448
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											
58	DPE6											

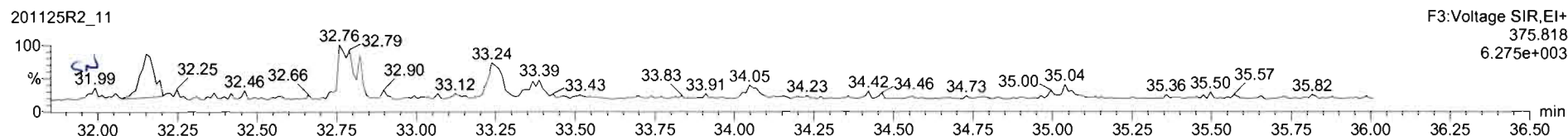
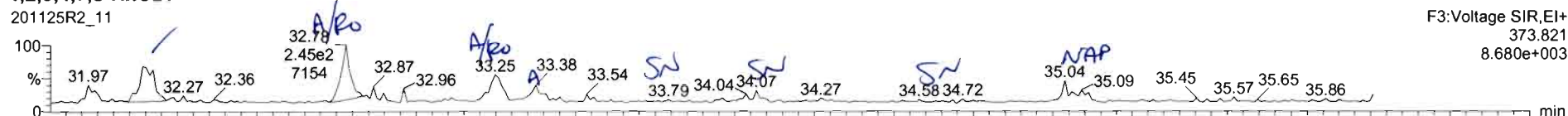


Dataset: Untitled

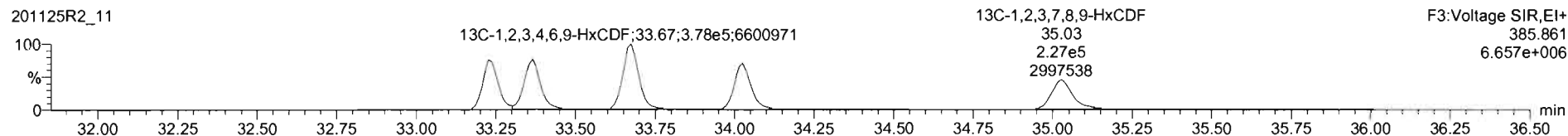
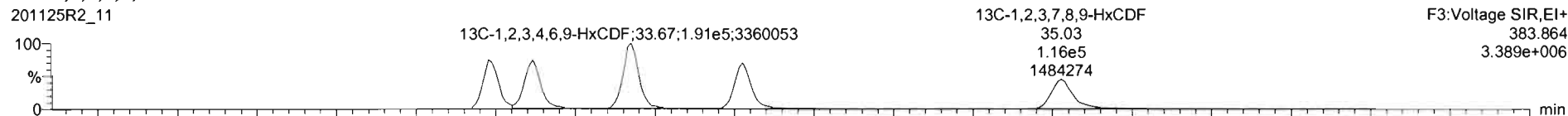
Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_11, Date: 26-Nov-2020, Time: 05:00:39, ID: 2002374-07 USMPDI-054SC-A-07-08-201029 13.37, Description: USMPDI-054SC-A-07-08-201029

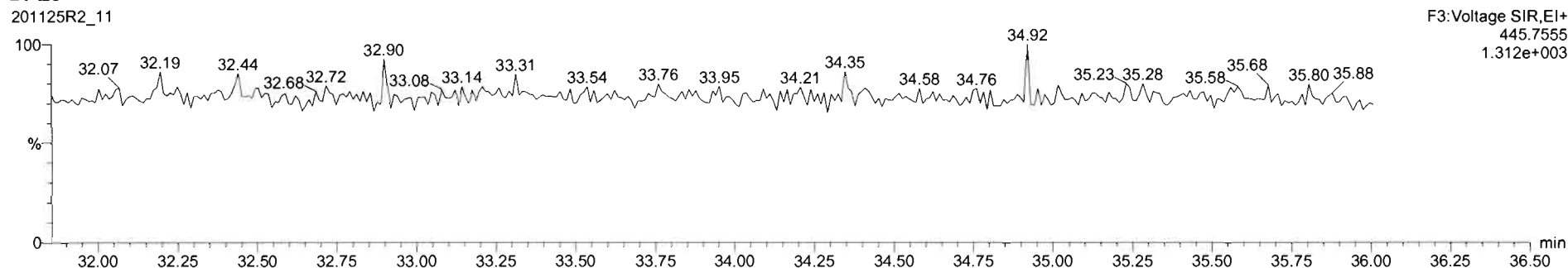
1,2,3,4,7,8-HxCDF



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



DPE3

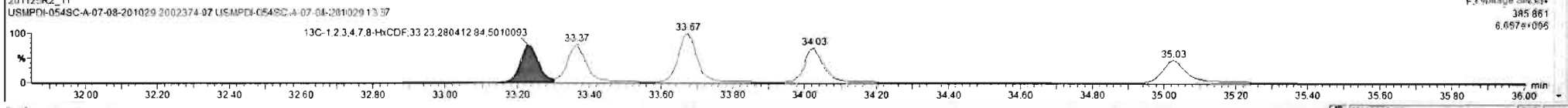
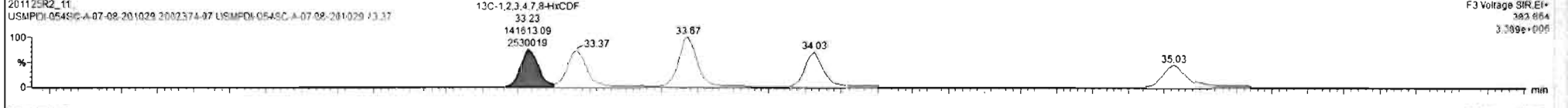
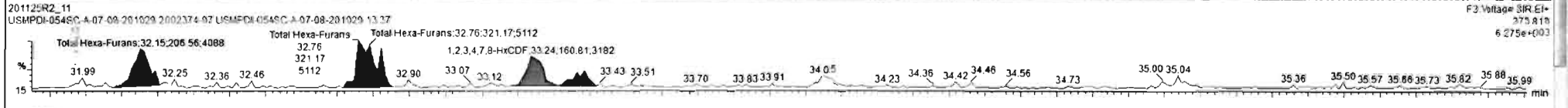
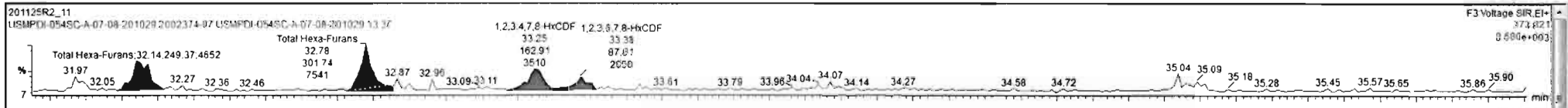


TargetLynx - 201125R2-11.qld - Chromatogram

File Edit View Display Processing Window Help

201125R2_11 - 2002374-07 USMPDI-054SC-A-07-08-201029 13.37 USMPDI-054SC-A-07-08-201029

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
38 13C-1,2,3,4,6,9-HxCDF	5.68e5	0.50	NO	1.0000	10.058	33.67	1.000	199	100	0.784	
39 Total Tetra-Dioxins				0.9501	10.058					0.0503	
40 Total Penta-Dioxins				0.8855	10.058					0.0717	
41 Total Hexa-Dioxins				0.9145	10.058			0.775		0.161	1.27
42 Total Hepta-Dioxins				0.8697	10.058			6.04		0.424	6.04
43 Total Tetra-Furans				0.8243	10.058			0.000		0.0227	0.158
44 1st Func. Penta-Furans				0.9626	10.058			0.000		0.0127	0.235
45 Total Penta-Furans				0.9626	10.058			0.239		0.107	0.549
46 Total Hexa-Furans				0.9907	10.058			0.298		0.0896	0.710
47 Total Hepta-Furans				0.9986	10.058			0.448		0.150	0.448
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 OPE1											
54 OPE2											
55 OPE3											
56 OPE4											
57 OPE5											
58 OPE6											

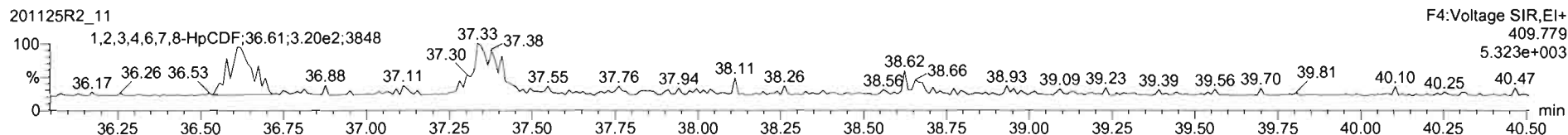
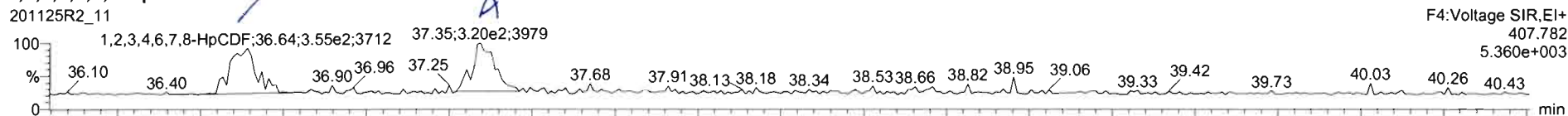


Dataset: Untitled

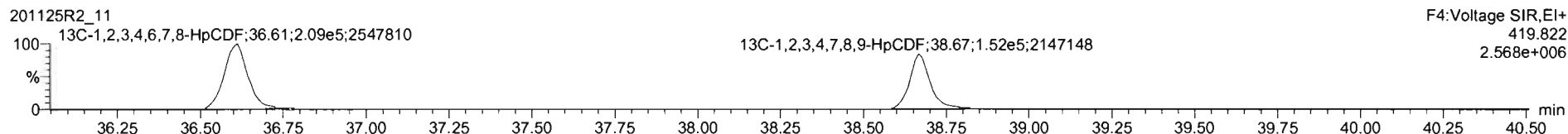
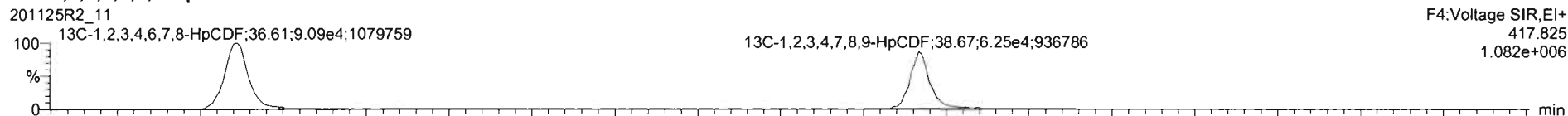
Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_11, Date: 26-Nov-2020, Time: 05:00:39, ID: 2002374-07 USMPDI-054SC-A-07-08-201029 13.37, Description: USMPDI-054SC-A-07-08-201029

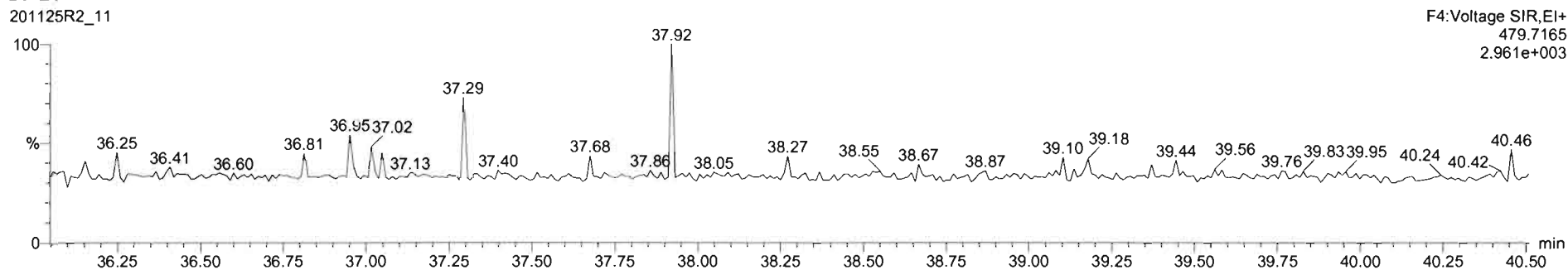
1,2,3,4,6,7,8-HpCDF



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



DPE4

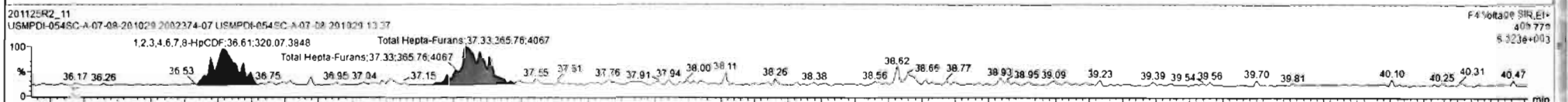
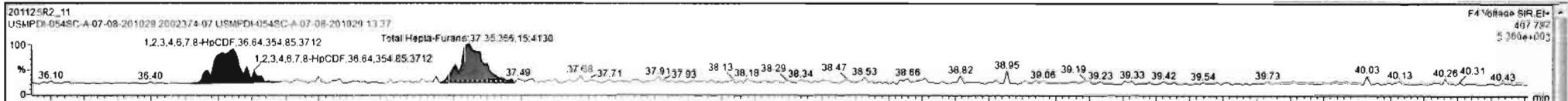


TargetLynx - 201125R2_11.qld - [Chromatogram]

File Edit View Display Processing Window Help

201125R2_11 - 2002374-07 USMPDI-054SC-A-07-08-201029 13 37 - USMPDI-054SC-A-07-08-201029

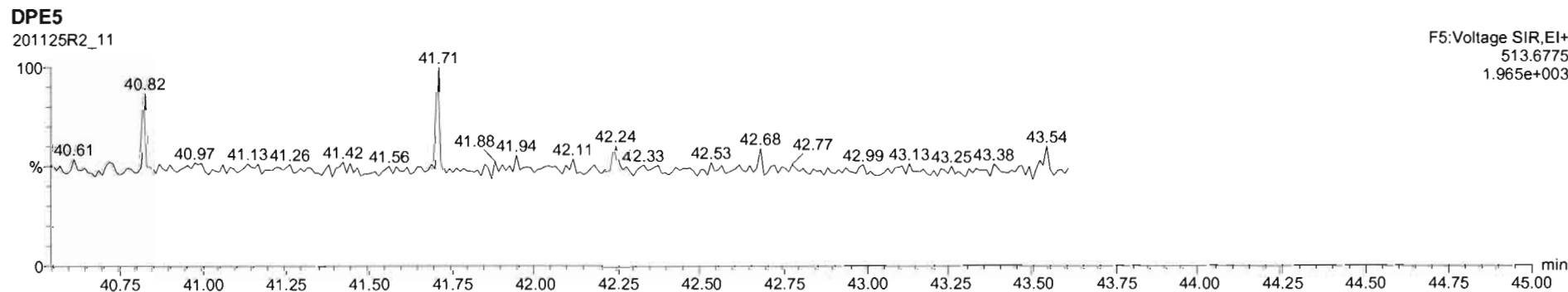
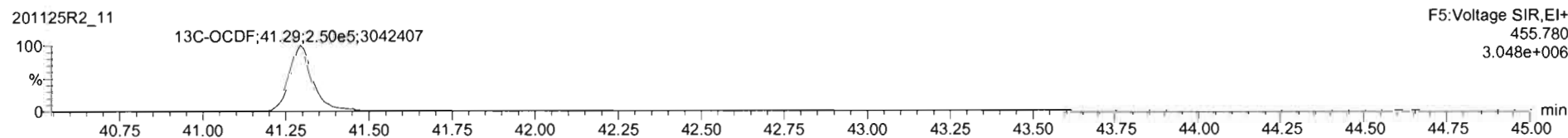
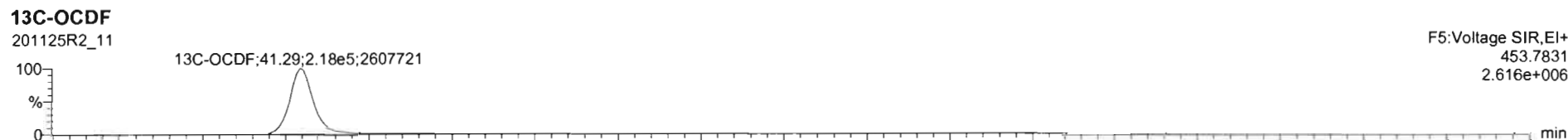
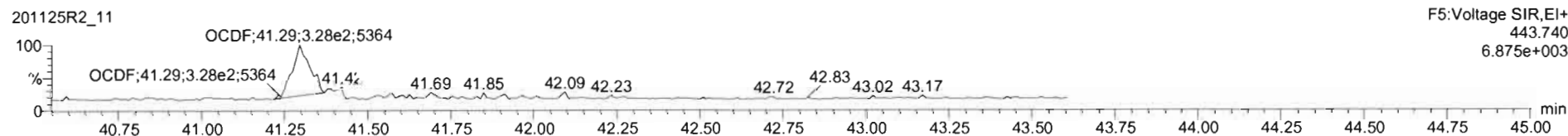
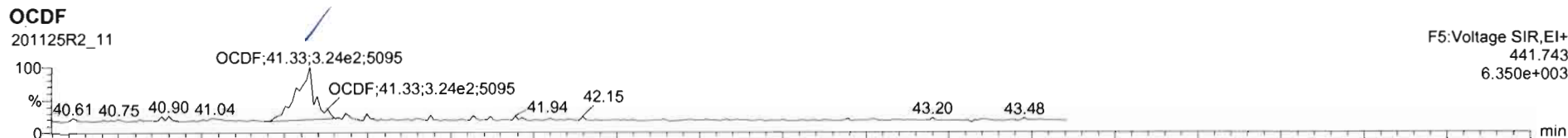
Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HpCDF	5.68e5	0.50	NO	1.0000	10.068	33.87	1.000	199	100	0.784
39	Total Tetra-Dioxins				0.9501	10.068					0.0503
40	Total Penta-Dioxins				0.8855	10.068					0.0717
41	Total Hexa-Dioxins				0.9145	10.068		0.775		0.161	1.27
42	Total Hepta-Dioxins				0.8697	10.068		6.04		0.424	6.04
43	Total Tetra-Furans				0.8243	10.068		0.000		0.0227	0.158
44	1st Func. Penta-Furans				0.9626	10.068		0.000		0.0127	0.235
45	Total Penta-Furans				0.9626	10.068		0.239		0.107	0.549
46	Total Hexa-Furans				0.9907	10.068		0.296		0.0598	0.710
47	Total Hepta-Furans				0.9908	10.068		1.81		0.150	1.01
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										



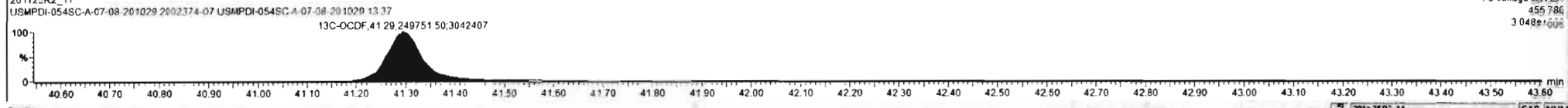
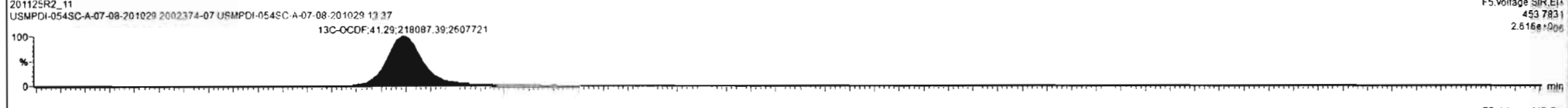
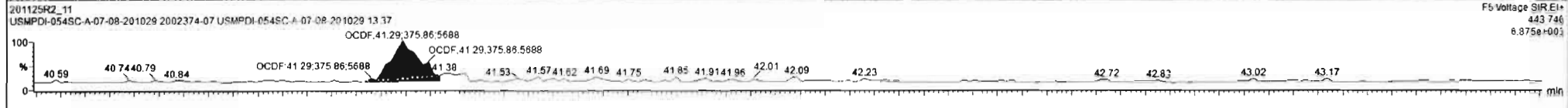
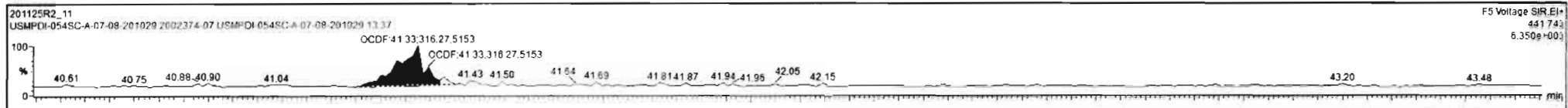
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Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_11, Date: 26-Nov-2020, Time: 05:00:39, ID: 2002374-07 USMPDI-054SC-A-07-08-201029 13.37, Description: USMPDI-054SC-A-07-08-201029



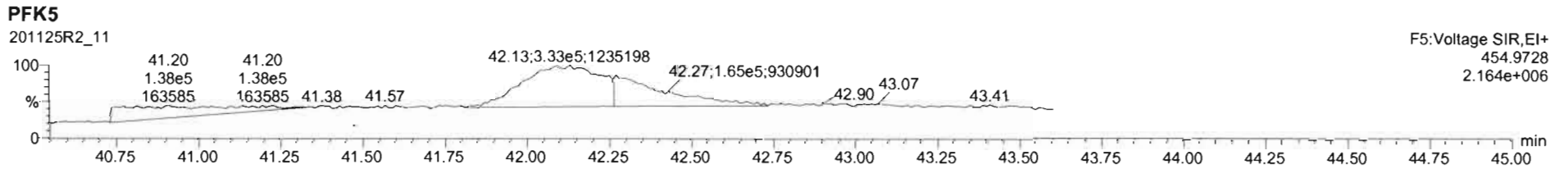
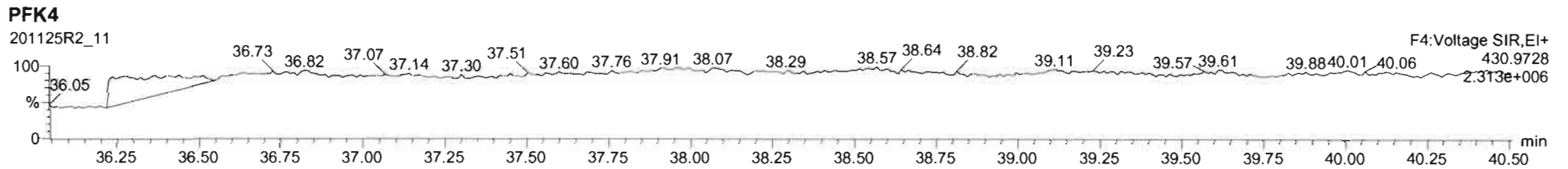
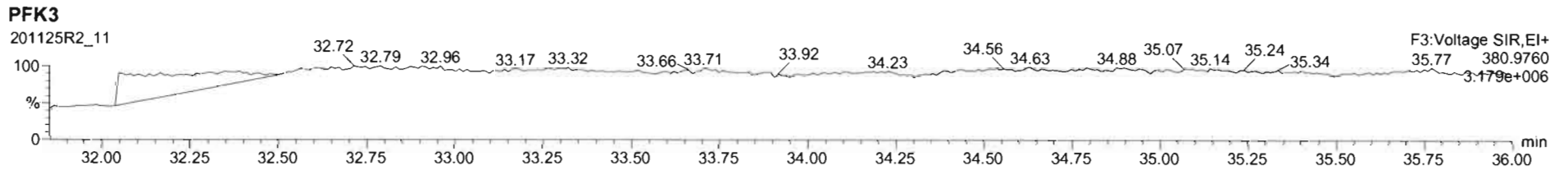
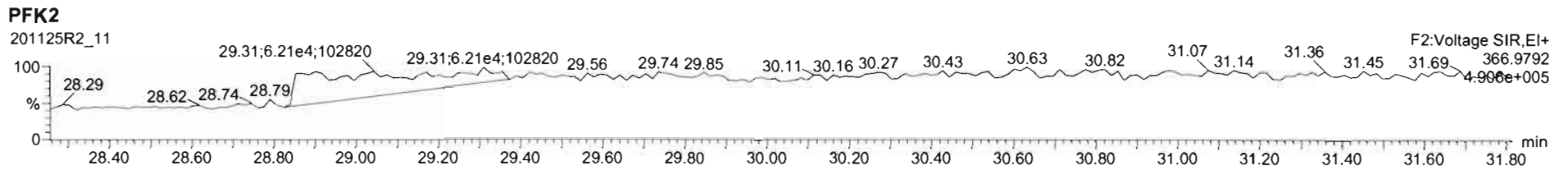
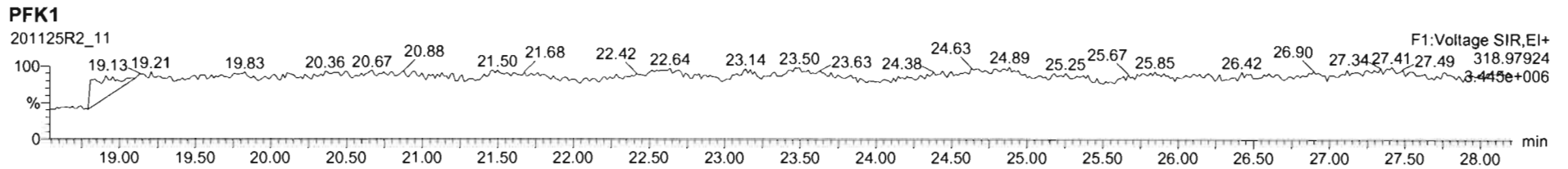
Name	Resp	RA	nA	RF	wtVel	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD			NO	0.9501	10.068					0.105	
2 1,2,3,7,8-PeCDD			NO	0.8855	10.068					0.154	
3 1,2,3,4,7,8-HxCDD			NO	1.0176	10.068					0.149	
4 1,2,3,6,7,8-HxCDD			NO	0.9145	10.068					0.148	
5 1,2,3,7,8,9-HxCDD			NO	0.9345	10.068					0.166	
6 1,2,3,4,6,7,8-HpCDD	2.29e3	1.14	NO	0.8697	10.068	38.06	1.001	2.08		0.424	2.08
7 OCDD	2.33e4	0.89	NO	0.8717	10.068	41.02	1.000	28.5		0.521	28.5
8 2,3,7,8-TCDF			NO	0.8243	10.068					0.0542	
9 1,2,3,7,8-PeCDF			NO	0.9526	10.068					0.103	
10 2,3,4,7,8-PeCDF	5.08e2	1.09	YES	1.0684	10.068	30.62	1.000	0.156		0.0987	0.134
11 1,2,3,4,7,8-HxCDF			NO	0.9535	10.068					0.0796	
12 1,2,3,6,7,8-HxCDF			NO	1.0080	10.068					0.0757	
13 2,3,4,6,7,8-HxCDF			NO	0.9907	10.068					0.0818	
14 1,2,3,7,8,9-HxCDF			NO	0.9506	10.068					0.137	
15 1,2,3,4,6,7,8-HpCDF	8.75e2	1.11	NO	0.9986	10.068	36.54	1.001	0.448		0.144	0.445
16 1,2,3,4,7,8,9-HpCDF			NO	1.1238	10.068					0.142	
17 OCDF	8.92e2	0.94	NO	0.8682	10.068	41.33	1.001	0.677		0.133	0.677
18 13C-2,3,7,8-TCDD	4.27e5	0.83	NO	1.1089	10.068	26.07	1.030	157	79.0	0.361	
19 13C-1,2,3,7,8-PeCDD	3.05e5	0.86	NO	0.8585	10.068	30.81	1.217	145	72.9	0.279	
20 13C-1,2,3,4,7,8-HxCDD	2.84e5	1.36	NO	0.8997	10.068	34.13	1.014	142	71.4	0.597	
21 13C-1,2,3,6,7,8-HxCDD	3.42e5	1.26	NO	0.8327	10.068	34.25	1.017	143	72.2	0.502	



Dataset: Untitled

Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_11, Date: 26-Nov-2020, Time: 05:00:39, ID: 2002374-07 USMPDI-054SC-A-07-08-201029 13.37, Description: USMPDI-054SC-A-07-08-201029



Dataset: U:\VG12.PRO\Results\201125R2\201125R2-12.qld

Last Altered: Tuesday, December 01, 2020 2:20:08 PM Pacific Standard Time

Printed: Tuesday, December 01, 2020 2:21:11 PM Pacific Standard Time

GPB 12/01/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

CT 12/01/2020

Name: 201125R2_12, Date: 26-Nov-2020, Time: 05:45:33, ID: 2002374-08 USMPDI-054SC-A-08-09-201029 11.65, Description: USMPDI-054SC-A-08-09-201029

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.950	10.176	26.112		1.001				0.0849	
2	2 1,2,3,7,8-PeCDD			NO	0.885	10.176	30.832		1.000				0.182	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.176	34.154		1.000				0.128	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.176	34.271		1.000				0.132	
5	5 1,2,3,7,8,9-HxCDD			NO	0.934	10.176	34.547		1.000				0.151	
6	6 1,2,3,4,6,7,8-HpCDD	1.39e3	0.98	NO	0.870	10.176	38.028	38.04	1.000	1.000	1.4641		0.232	1.46
7	7 OCDD	1.12e4	0.82	NO	0.872	10.176	40.974	40.99	1.000	1.001	16.572		0.527	16.6
8	8 2,3,7,8-TCDF			NO	0.824	10.176	25.396		1.000				0.0324	
9	9 1,2,3,7,8-PeCDF			NO	0.963	10.176	29.556		1.000				0.0571	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.176	30.618		1.000				0.0481	
11	11 1,2,3,4,7,8-HxCDF	1.74e2	1.27	NO	0.953	10.176	33.238	33.24	1.000	1.000	0.098144		0.0420	0.0981
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.176	33.366		1.000				0.0638	
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	10.176	34.040		1.000				0.0737	
14	14 1,2,3,7,8,9-HxCDF			NO	0.951	10.176	35.028		1.000				0.113	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.999	10.176	36.615		1.000				0.0990	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	10.176	38.667		1.000				0.115	
17	17 OCDF			NO	0.868	10.176	41.270		1.000				0.163	
18	18 13C-2,3,7,8-TCDD	4.19e5	0.85	NO	1.11	10.176	26.073	26.08	1.030	1.030	176.42	89.8	0.342	
19	19 13C-1,2,3,7,8-PeCDD	2.73e5	0.68	NO	0.859	10.176	30.792	30.82	1.216	1.218	148.41	75.5	0.668	
20	20 13C-1,2,3,4,7,8-HxCDD	2.44e5	1.32	NO	0.700	10.176	34.143	34.14	1.014	1.014	141.80	72.1	0.707	
21	21 13C-1,2,3,6,7,8-HxCDD	2.86e5	1.32	NO	0.833	10.176	34.281	34.26	1.018	1.017	139.49	71.0	0.594	
22	22 13C-1,2,3,7,8,9-HxCDD	2.67e5	1.32	NO	0.762	10.176	34.524	34.54	1.025	1.026	142.41	72.5	0.650	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.14e5	1.10	NO	0.650	10.176	38.009	38.03	1.129	1.129	133.95	68.2	0.878	
24	24 13C-OCDD	3.06e5	0.93	NO	0.539	10.176	40.976	40.97	1.217	1.217	230.33	58.6	0.875	
25	25 13C-2,3,7,8-TCDF	7.21e5	0.78	NO	0.981	10.176	25.395	25.39	1.003	1.003	169.13	86.1	0.354	
26	26 13C-1,2,3,7,8-PeCDF	5.38e5	1.66	NO	0.792	10.176	29.524	29.55	1.166	1.167	156.51	79.6	0.770	
27	27 13C-2,3,4,7,8-PeCDF	5.32e5	1.67	NO	0.778	10.176	30.582	30.62	1.208	1.210	157.58	80.2	0.784	
28	28 13C-1,2,3,4,7,8-HxCDF	3.65e5	0.50	NO	0.954	10.176	33.234	33.24	0.987	0.987	155.25	79.0	0.866	
29	29 13C-1,2,3,6,7,8-HxCDF	3.93e5	0.50	NO	1.01	10.176	33.365	33.37	0.991	0.991	158.85	80.8	0.821	
30	30 13C-2,3,4,6,7,8-HxCDF	3.60e5	0.50	NO	0.921	10.176	34.035	34.04	1.011	1.011	158.59	80.7	0.897	

Dataset: U:\WG12.PRO\Results\201125R2\201125R2-12.qld

Last Altered: Tuesday, December 01, 2020 2:20:08 PM Pacific Standard Time

Printed: Tuesday, December 01, 2020 2:21:11 PM Pacific Standard Time

Name: 201125R2_12, Date: 26-Nov-2020, Time: 05:45:33, ID: 2002374-08 USMPDI-054SC-A-08-09-201029 11.65, Description: USMPDI-054SC-A-08-09-201029

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	2.98e5	0.47	NO	0.803	10.176	35.032	35.03	1.040	1.040	150.63	76.6	1.03	
32	13C-1,2,3,4,6,7,8-HpCDF	2.57e5	0.41	NO	0.735	10.176	36.601	36.61	1.087	1.087	141.79	72.1	0.595	
33	13C-1,2,3,4,7,8,9-HpCDF	1.78e5	0.42	NO	0.568	10.176	38.639	38.67	1.147	1.148	127.41	64.8	0.770	
34	13C-OCDF	3.80e5	0.85	NO	0.629	10.176	41.259	41.26	1.225	1.225	245.33	62.4	0.618	
35	37Cl-2,3,7,8-TCDD	2.00e5			1.09	10.176	26.073	26.10	1.030	1.031	85.872	109	0.0821	
36	13C-1,2,3,4-TCDD	4.21e5	0.82	NO	1.00	10.176	25.370	25.31	1.000	1.000	196.55	100	0.380	
37	13C-1,2,3,4-TCDF	8.54e5	0.80	NO	1.00	10.176	23.870	23.81	1.000	1.000	196.55	100	0.348	
38	13C-1,2,3,4,6,9-HxCDF	4.84e5	0.51	NO	1.00	10.176	33.710	33.67	1.000	1.000	196.55	100	0.826	
39	Total Tetra-Dioxins				0.950	10.176	24.620		0.000				0.0490	
40	Total Penta-Dioxins				0.885	10.176	29.960		0.000				0.0820	
41	Total Hexa-Dioxins				0.915	10.176	33.635		0.000		1.0474		0.143	1.05
42	Total Hepta-Dioxins				0.870	10.176	37.640		0.000		3.9253		0.232	3.93
43	Total Tetra-Furans				0.824	10.176	23.610		0.000				0.0132	
44	1st Func. Penta-Furans				0.963	10.176	26.930		0.000				0.00805	
45	Total Penta-Furans				0.963	10.176	29.275		0.000				0.0254	
46	Total Hexa-Furans				0.991	10.176	33.555		0.000		0.16500		0.0464	0.165
47	Total Hepta-Furans				0.999	10.176	37.835		0.000				0.0530	

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Dataset: U:\VG12.PRO\Results\201125R2\201125R2-12.qld

Last Altered: Tuesday, December 01, 2020 2:20:08 PM Pacific Standard Time

Printed: Tuesday, December 01, 2020 2:21:11 PM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R2_12, Date: 26-Nov-2020, Time: 05:45:33, ID: 2002374-08 USMPDI-054SC-A-08-09-201029 11.65, Description: USMPDI-054SC-A-08-09-201029

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.53	1.027e4	6.480e3	4.643e2	3.440e2	1.35	NO	8.083e2	0.65344	0.65344	0.143
2	Total Hexa-Dioxins	33.38	3.949e3	3.106e3	2.735e2	2.139e2	1.28	NO	4.873e2	0.39397	0.39397	0.143

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.03	1.320e4	1.615e4	1.128e3	1.206e3	0.93	NO	2.334e3	2.4613	2.4613	0.232
2	1,2,3,4,6,7,8-HpCDD	38.04	1.266e4	1.083e4	6.863e2	7.018e2	0.98	NO	1.388e3	1.4641	1.4641	0.232

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\WG12.PRO\Results\201125R2\201125R2-12.qld

Last Altered: Tuesday, December 01, 2020 2:20:08 PM Pacific Standard Time

Printed: Tuesday, December 01, 2020 2:21:11 PM Pacific Standard Time

Name: 201125R2_12, Date: 26-Nov-2020, Time: 05:45:33, ID: 2002374-08 USMPDI-054SC-A-08-09-201029 11.65, Description: USMPDI-054SC-A-08-09-201029

Penta-Furans

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

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.80	1.240e3	1.357e3	6.721e1	5.206e1	1.29	NO	1.193e2	0.066852	0.066852	0.0464
2	1,2,3,4,7,8-HxCDF	33.24	2.831e3	1.873e3	9.717e1	7.642e1	1.27	NO	1.736e2	0.098144	0.098144	0.0420

Hepta-Furans

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

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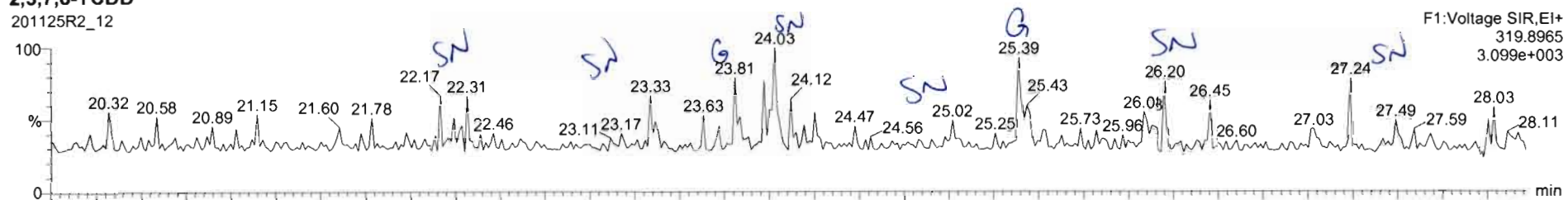
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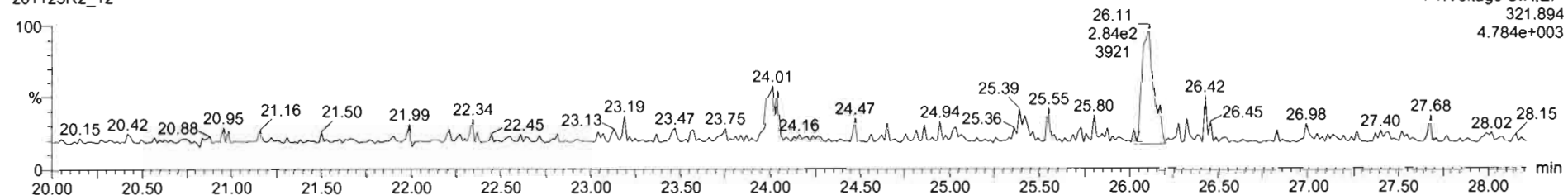
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2,3,7,8-TCDD

201125R2_12

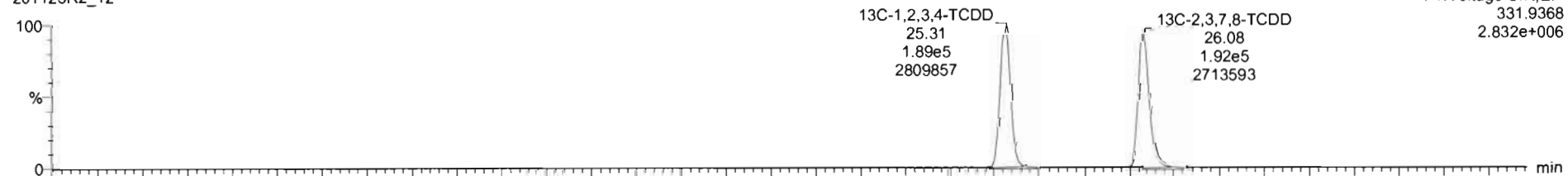


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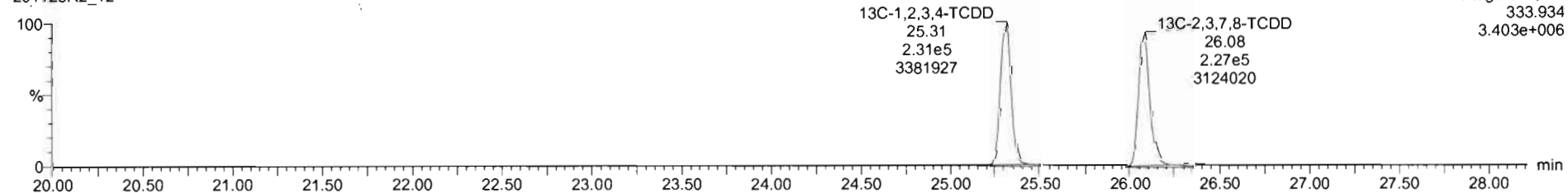


13C-2,3,7,8-TCDD

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201125R2_12



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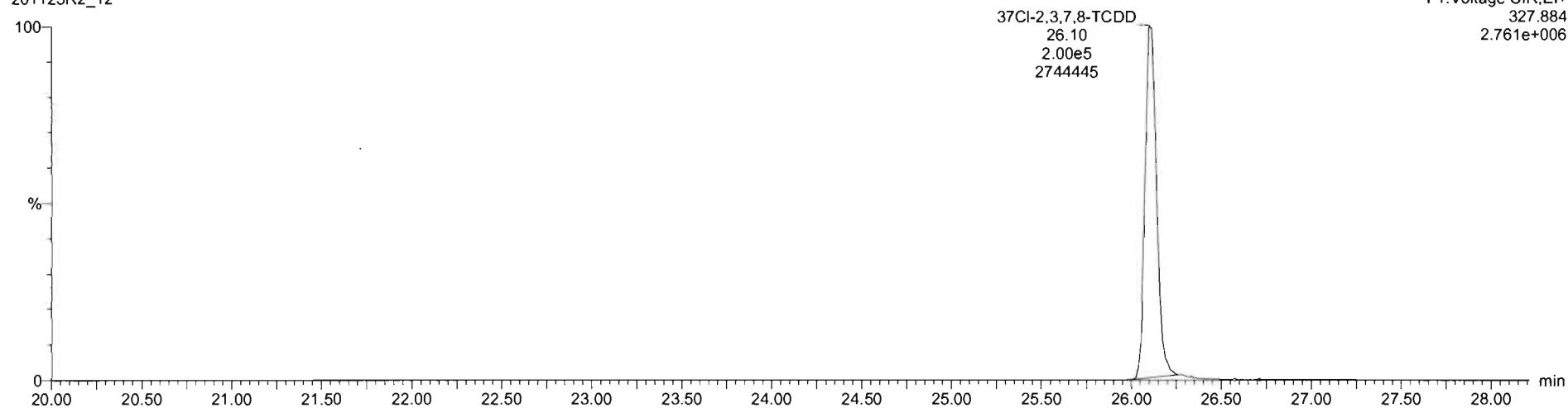
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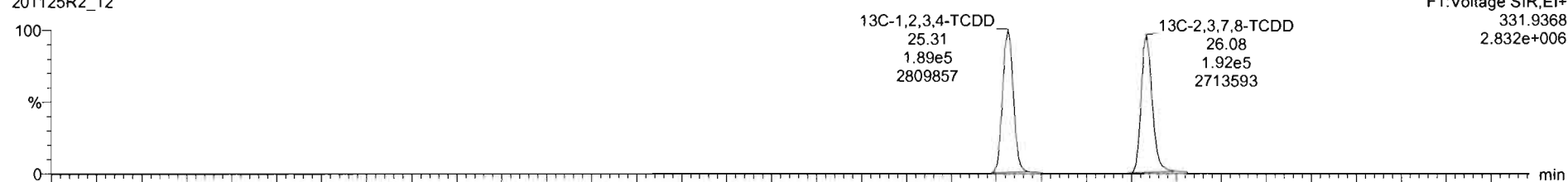
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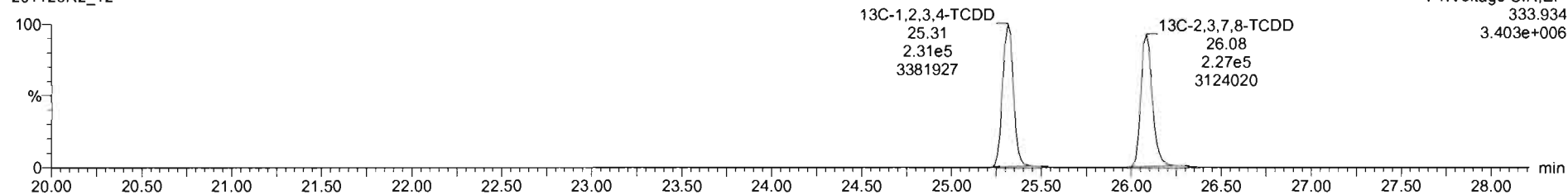


13C-1,2,3,4-TCDD

201125R2_12



201125R2_12



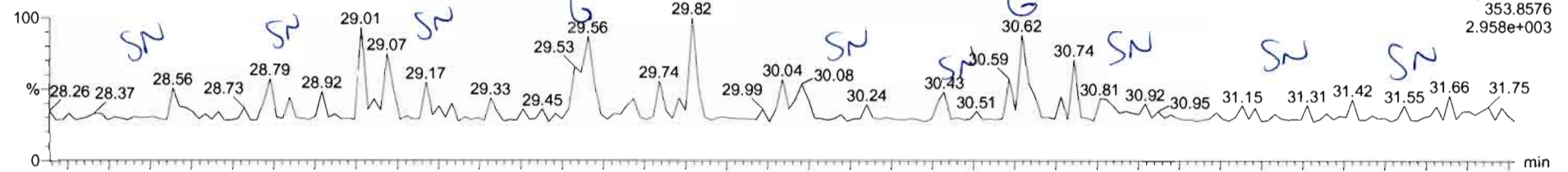
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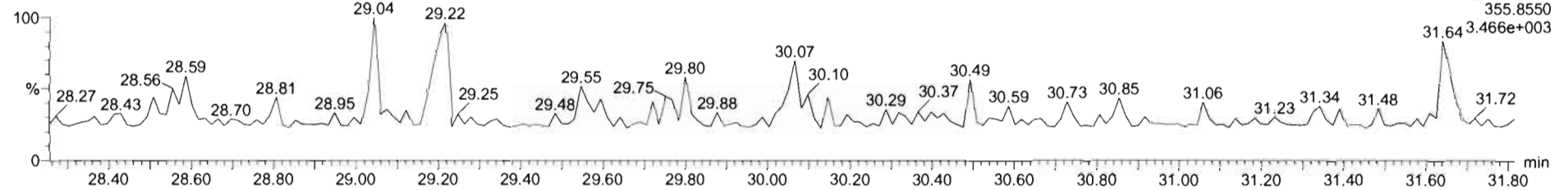
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1,2,3,7,8-PeCDD

201125R2_12

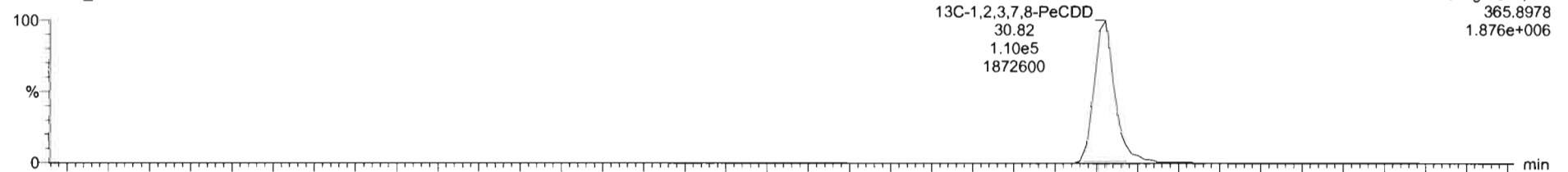


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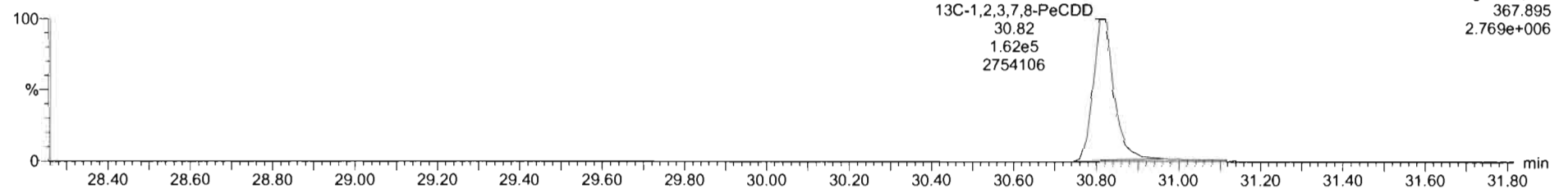


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201125R2_12

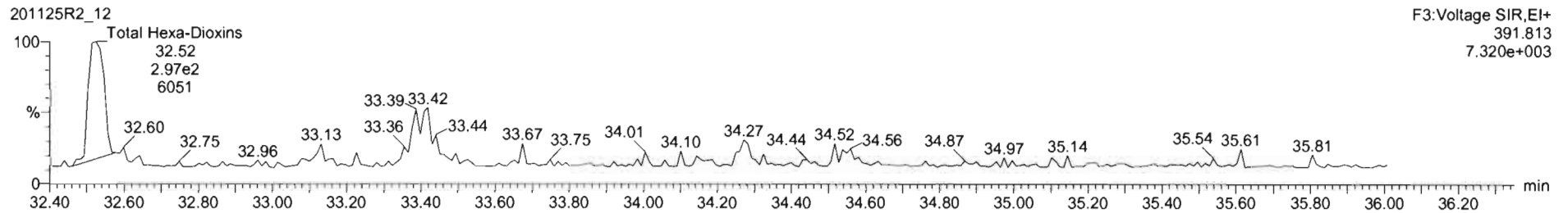
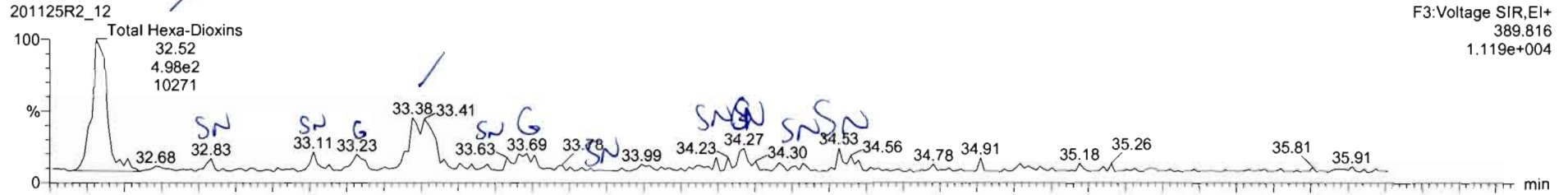


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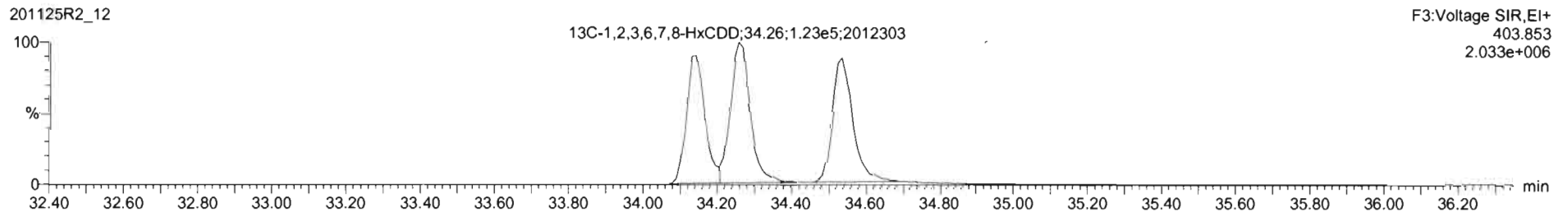
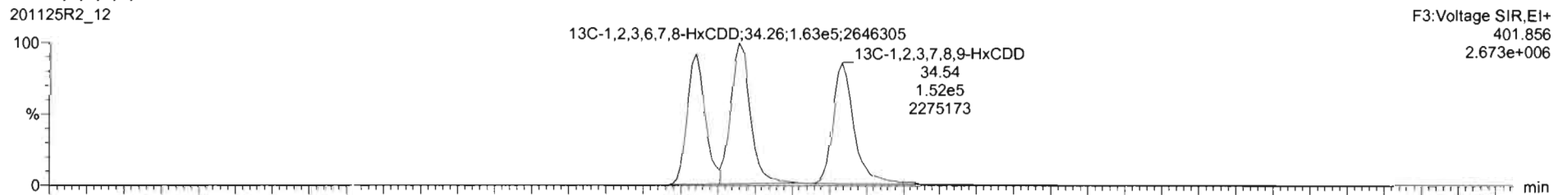
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1,2,3,4,7,8-HxCDD



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

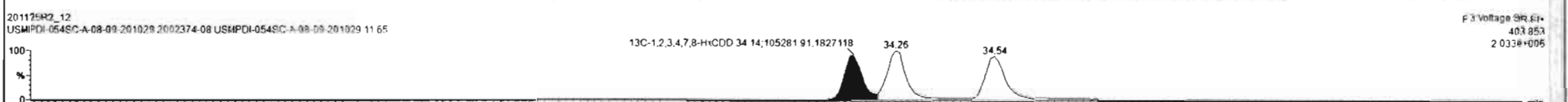
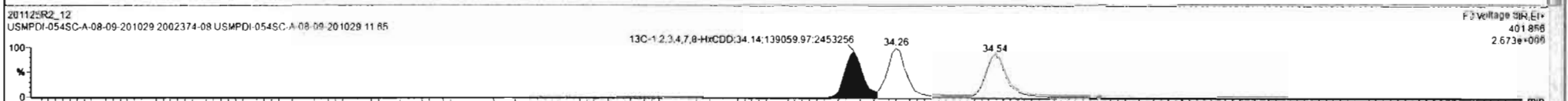
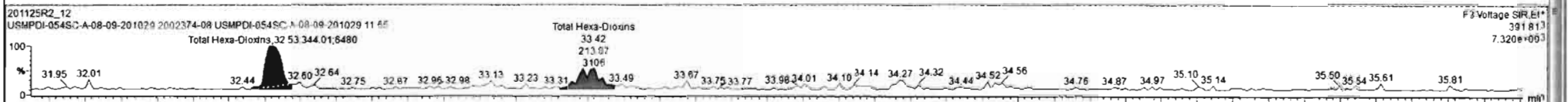
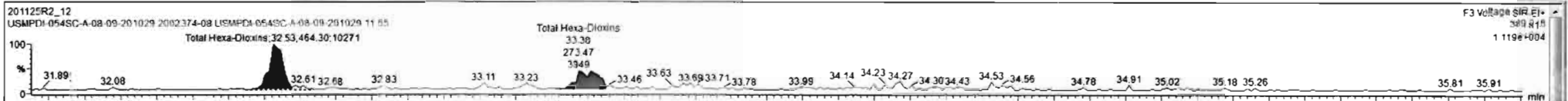


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201125R2_12 - 2002374.08 USMPDI-054SC-A-08-09-201029 11:65 USMPDI-054SC-A-08-09-201029

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
38 13C-1,2,3,4,6,9-HxCDF	4.84e5	0.51	NO	1.0000	10.176	33.87	1.000	197	100	0.826	
39 Total Tetra-Dioxins				0.9501	10.176					0.0490	
40 Total Penta-Dioxins				0.8855	10.176					0.0820	
41 Total Hexa-Dioxins				0.9145	10.176			1.05		0.143	1.05
42 Total Hepta-Dioxins				0.8697	10.176			3.93		0.232	3.93
43 Total Tetra-Furans				0.8243	10.176					0.0132	
44 1st Func. Penta-Furans				0.9626	10.176					0.00805	
45 Total Penta-Furans				0.9626	10.176					0.0254	
46 Total Hexa-Furans				0.9907	10.176			0.165		0.0464	0.165
47 Total Hepta-Furans				0.9986	10.176					0.0530	
48 PPK1											
49 PPK2											
50 PPK3											
51 PPK4											
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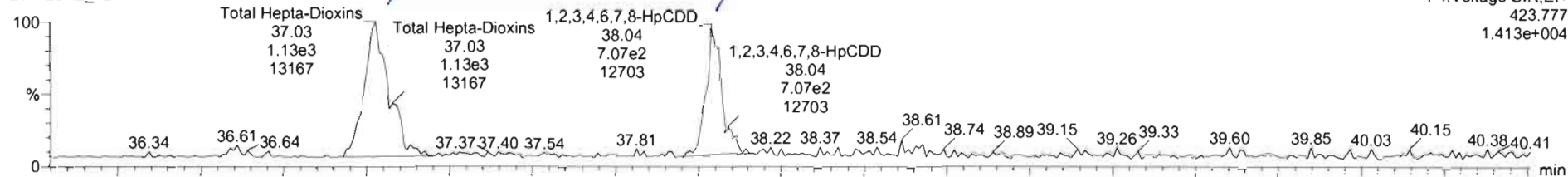
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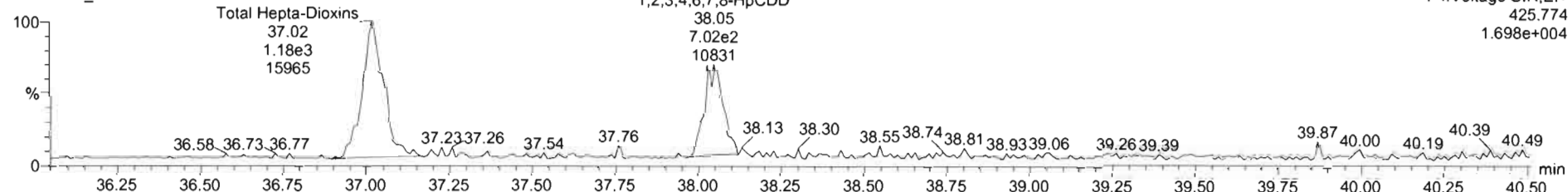
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1,2,3,4,6,7,8-HpCDD

201125R2_12

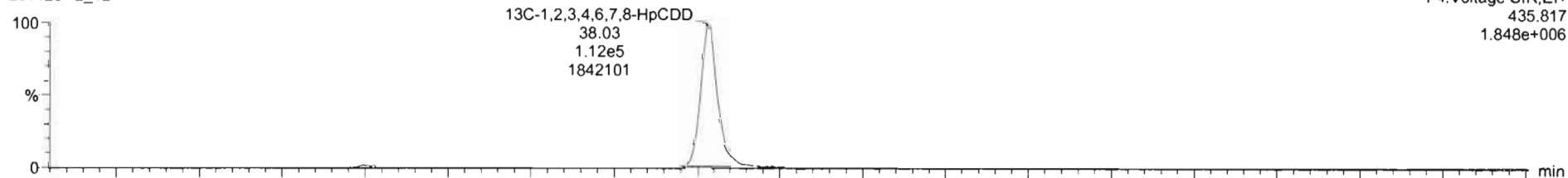


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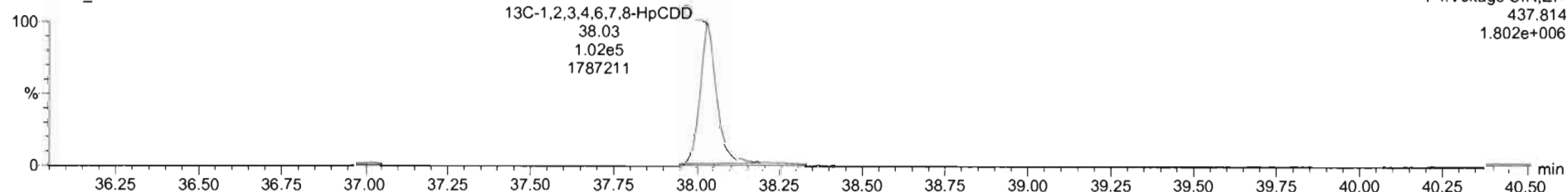


13C-1,2,3,4,6,7,8-HpCDD

201125R2_12



201125R2_12

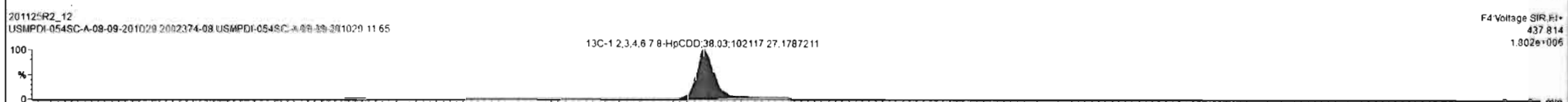
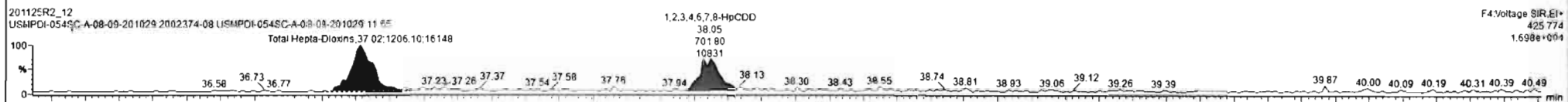
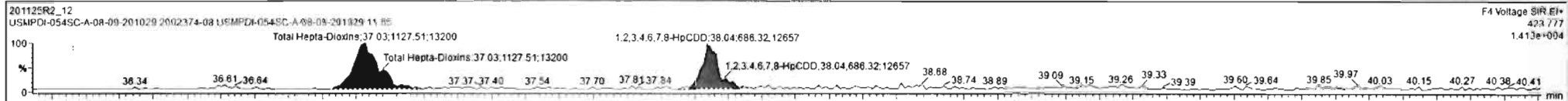


TargetLynx 201125R2_12.qtd - Chromatogram

File Edit View Display Processing Window Help

201125R2_12 - 2002374-08 USMPDI-054SC-A 08-09-201029 11:55 USMPDI-054SC-A 08-09-201029

Name	Resp	RA	n/y	RRF	wt/vel	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	4.84e5	0.51	NO	1.0000	10.176	33.67	1.000	197	100	0.826
39	Total Tetra-Dioxins				0.9501	10.176					0.0490
40	Total Penta-Dioxins				0.8855	10.176					0.0820
41	Total Hexa-Dioxins				0.9145	10.176		1.05			0.143
42	Total Hepta-Dioxins				0.8697	10.176		3.93			0.232
43	Total Tetra-Furans				0.8243	10.176					0.0132
44	1st Func. Penta-Furans				0.9626	10.176					0.0305
45	Total Penta-Furans				0.9626	10.176					0.0254
46	Total Hexa-Furans				0.9907	10.176		0.165			0.165
47	Total Hepta-Furans				0.9966	10.176					0.0530
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										



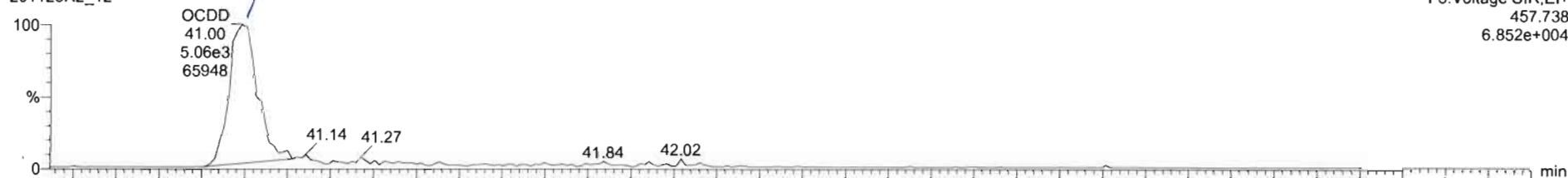
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Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

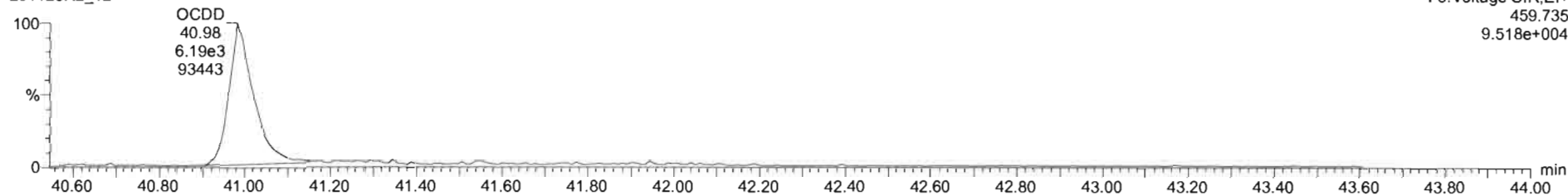
Name: 201125R2_12, Date: 26-Nov-2020, Time: 05:45:33, ID: 2002374-08 USMPDI-054SC-A-08-09-201029 11.65, Description: USMPDI-054SC-A-08-09-201029

OCDD

201125R2_12

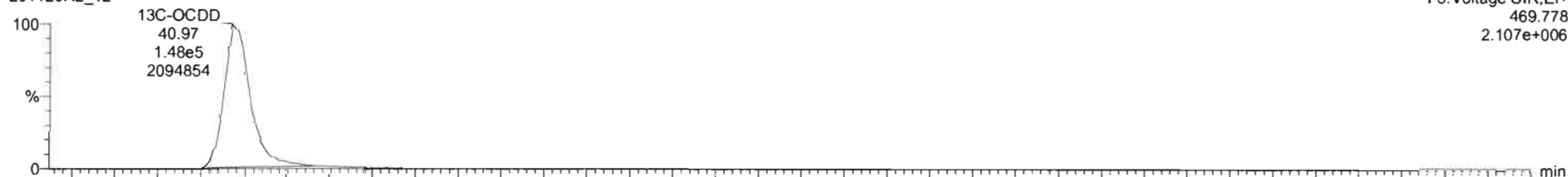


201125R2_12

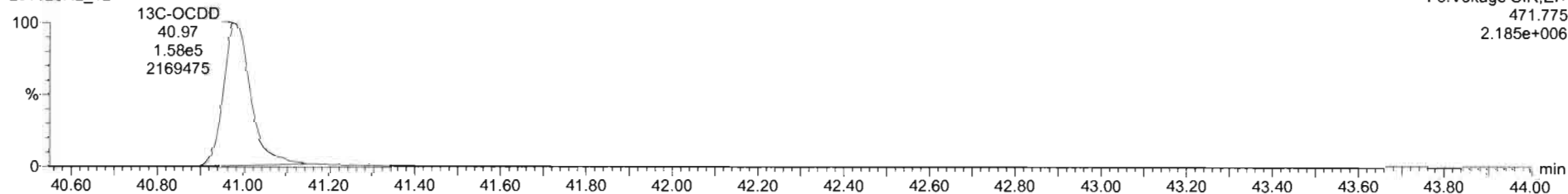


13C-OCDD

201125R2_12



201125R2_12



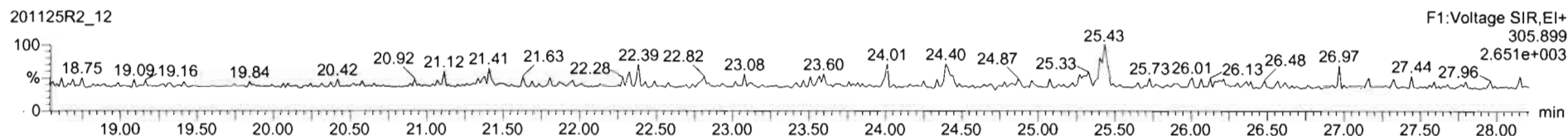
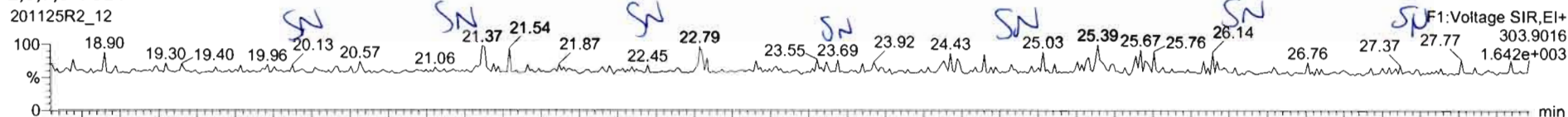
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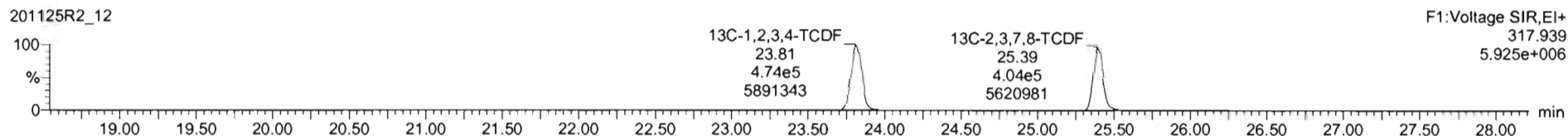
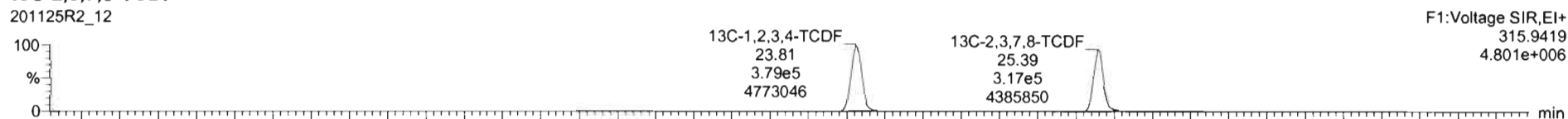
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Name: 201125R2_12, Date: 26-Nov-2020, Time: 05:45:33, ID: 2002374-08 USMPDI-054SC-A-08-09-201029 11.65, Description: USMPDI-054SC-A-08-09-201029

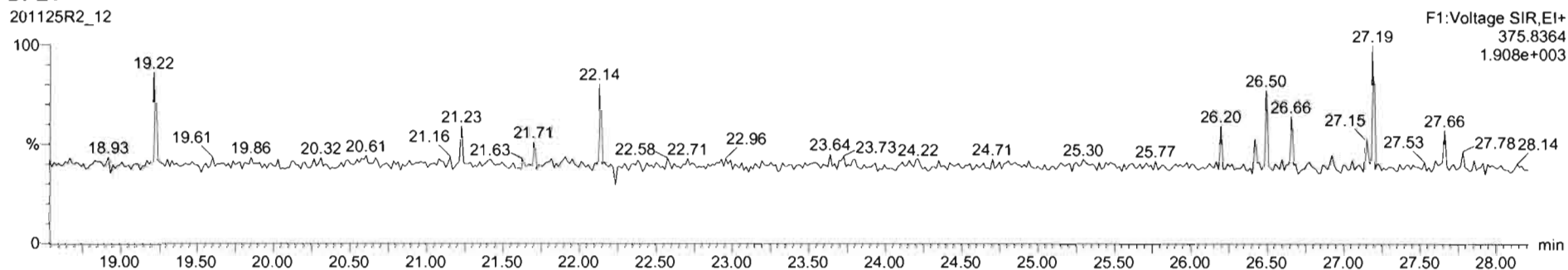
2,3,7,8-TCDF



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



DPE1



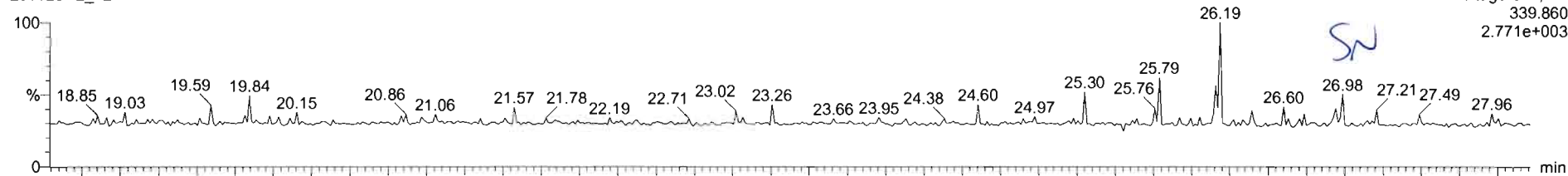
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Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

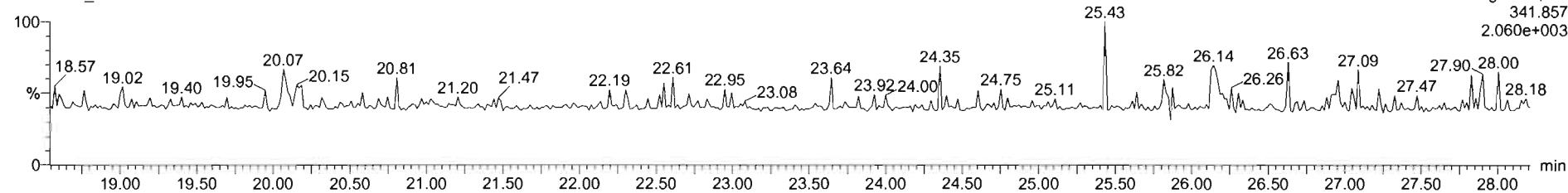
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1st Func. Penta-Furans

201125R2_12

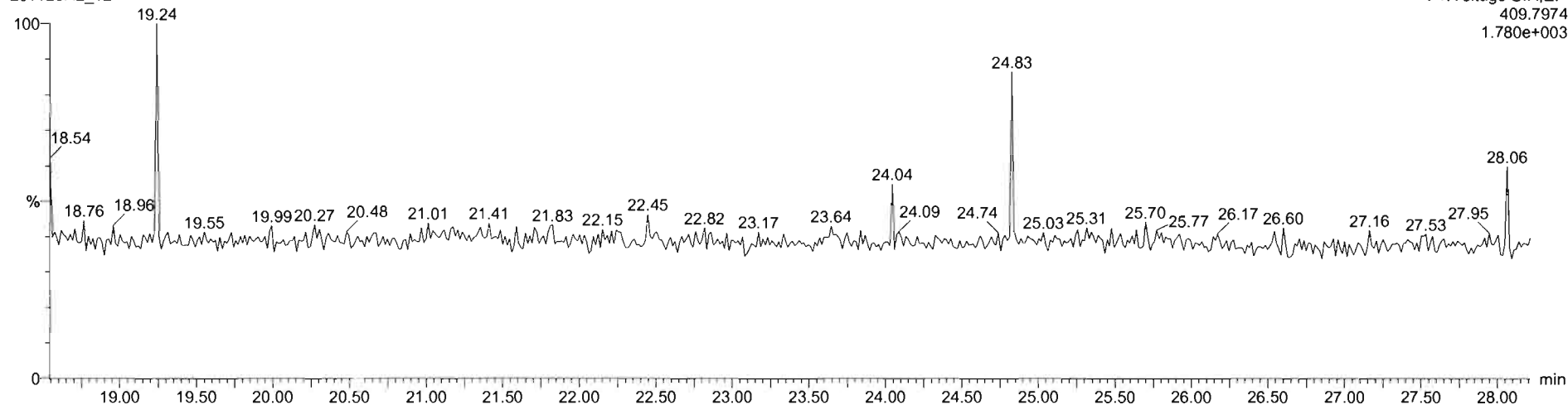


201125R2_12



DPE6

201125R2_12

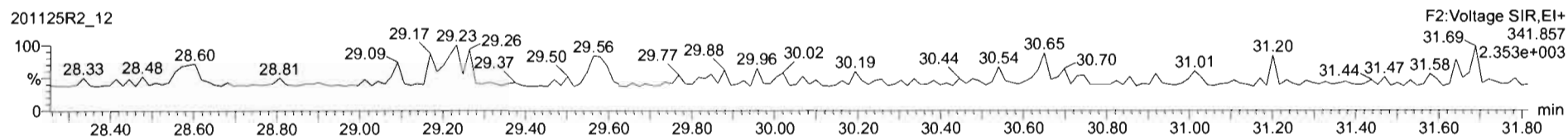
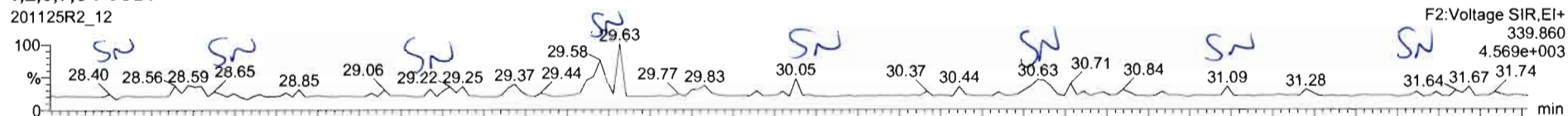


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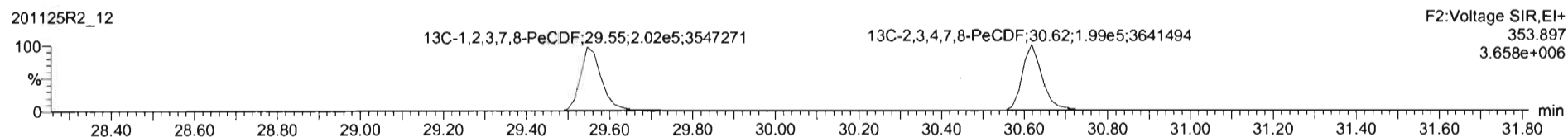
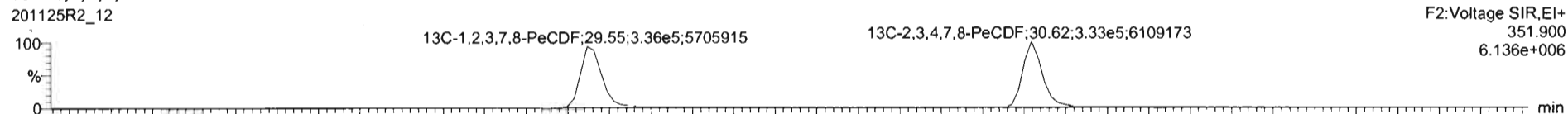
Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_12, Date: 26-Nov-2020, Time: 05:45:33, ID: 2002374-08 USMPDI-054SC-A-08-09-201029 11.65, Description: USMPDI-054SC-A-08-09-201029

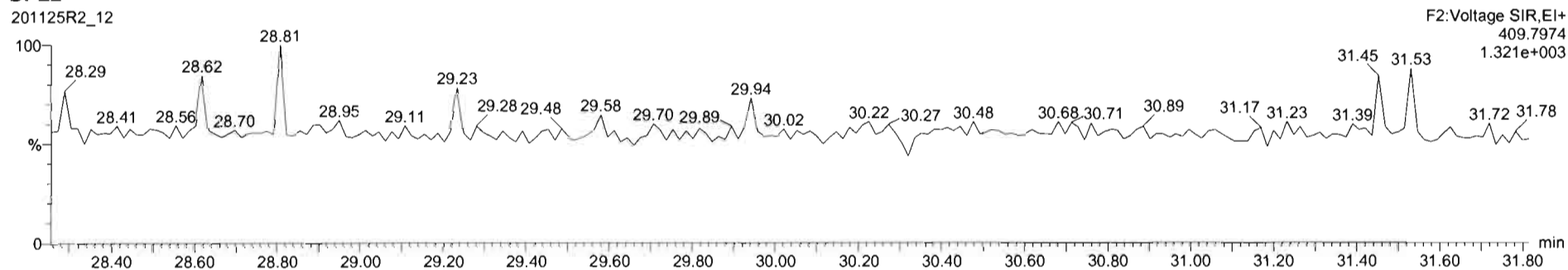
1,2,3,7,8-PeCDF



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



DPE2

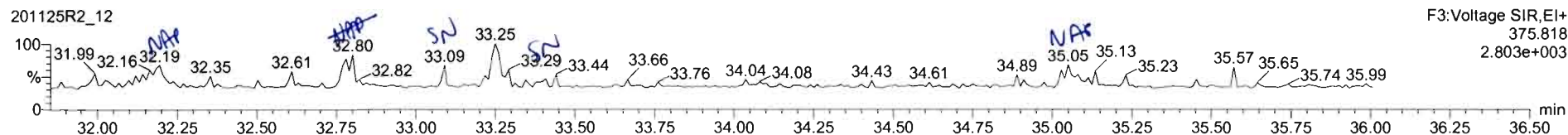
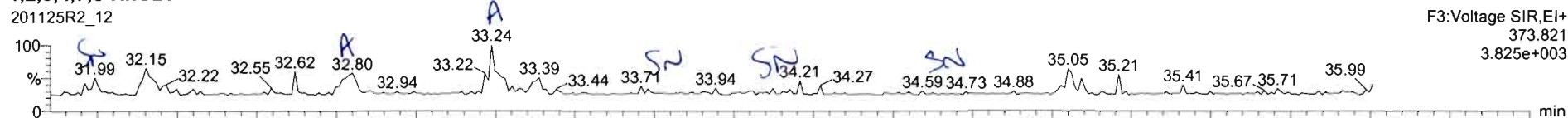


Dataset: Untitled

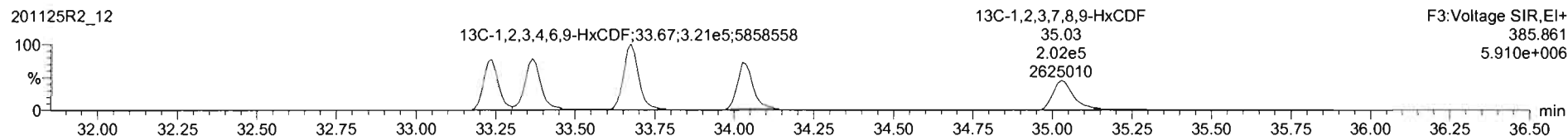
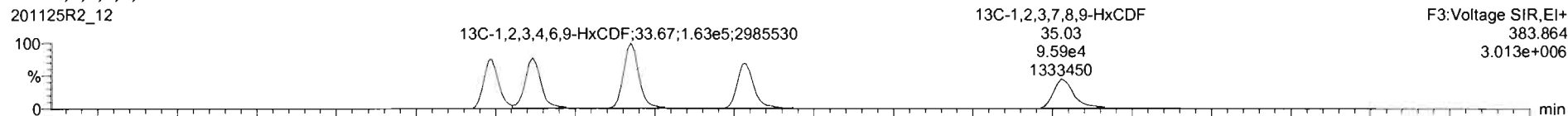
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Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_12, Date: 26-Nov-2020, Time: 05:45:33, ID: 2002374-08 USMPDI-054SC-A-08-09-201029 11.65, Description: USMPDI-054SC-A-08-09-201029

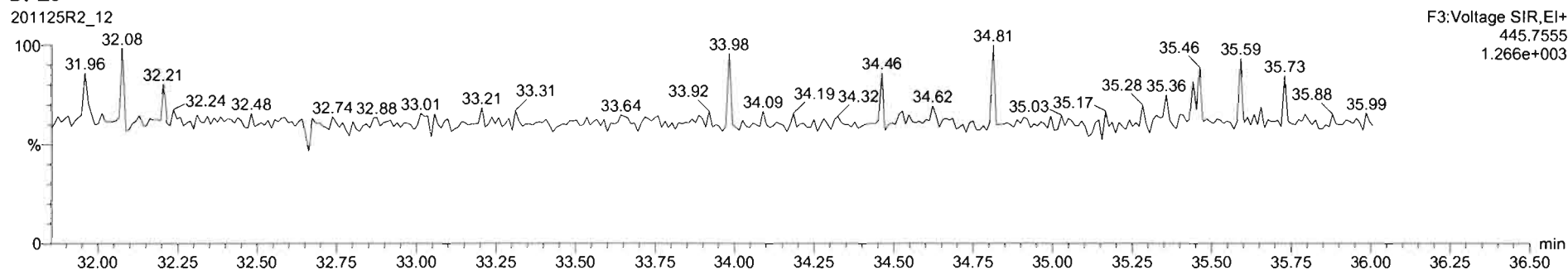
1,2,3,4,7,8-HxCDF

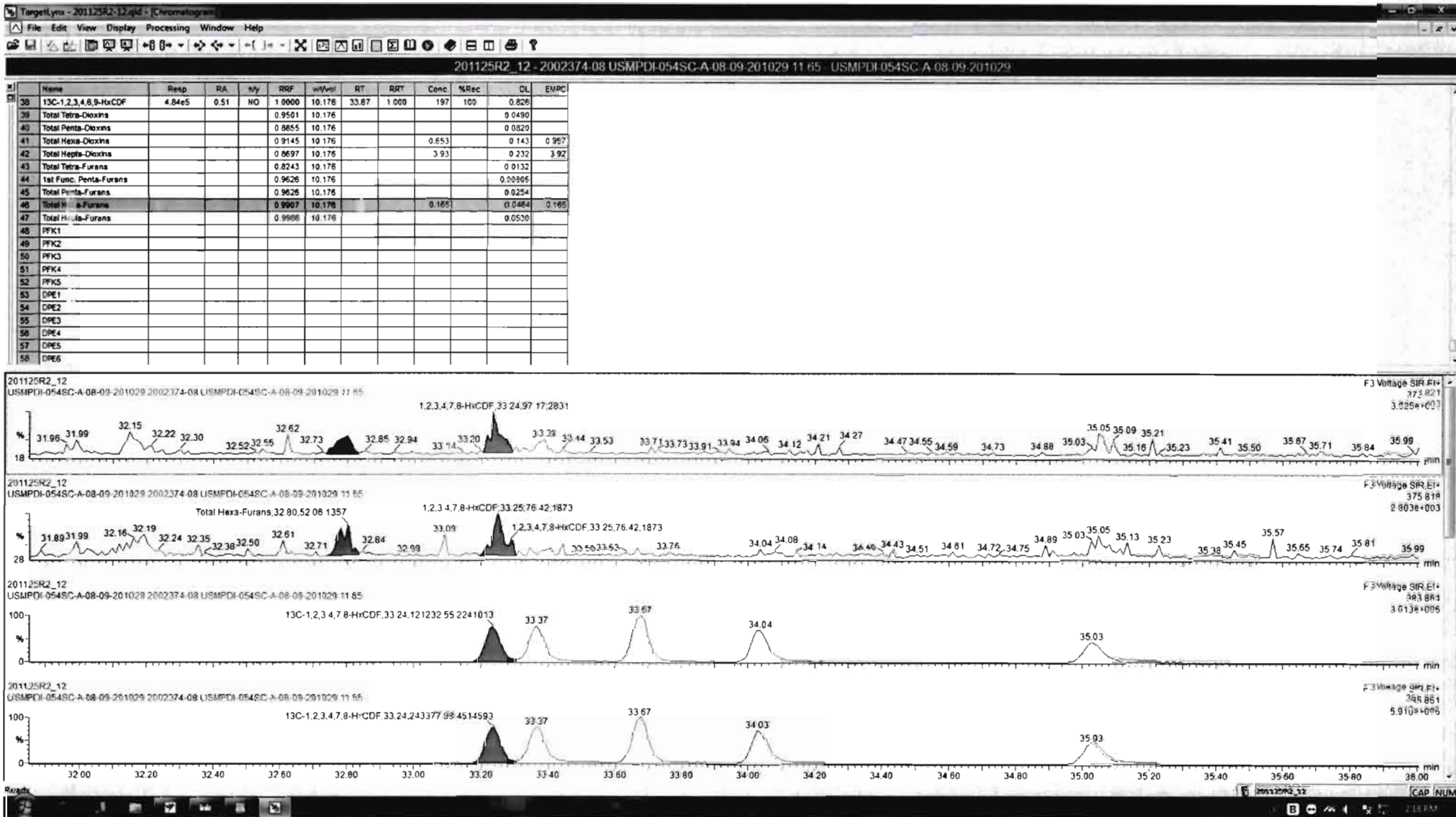


13C-1,2,3,4,7,8-HxCDF



DPE3



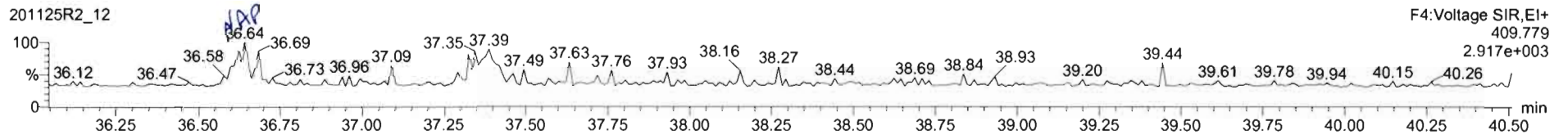
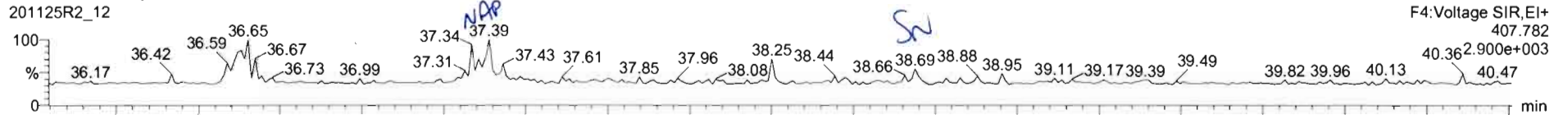


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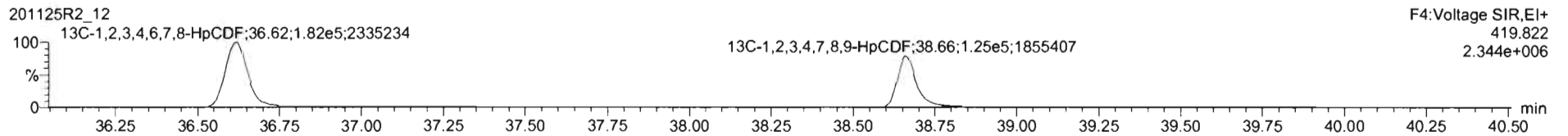
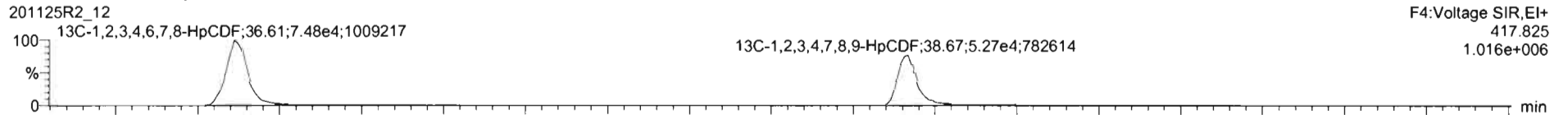
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Name: 201125R2_12, Date: 26-Nov-2020, Time: 05:45:33, ID: 2002374-08 USMPDI-054SC-A-08-09-201029 11.65, Description: USMPDI-054SC-A-08-09-201029

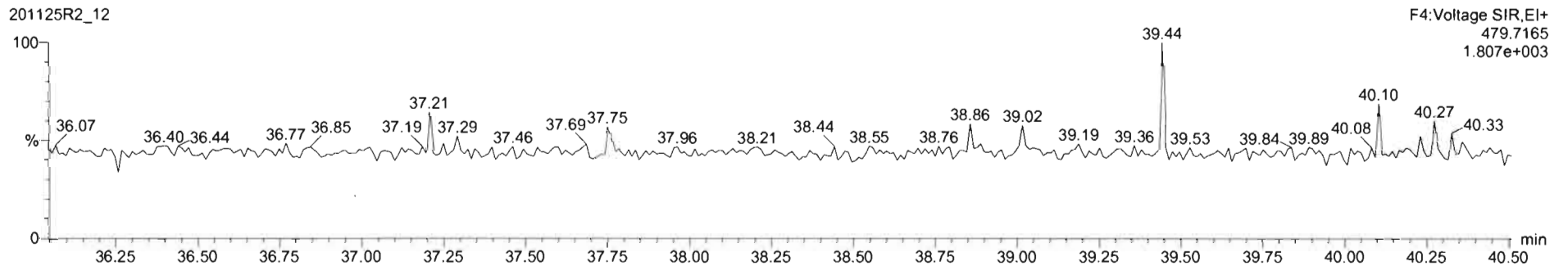
1,2,3,4,6,7,8-HpCDF



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



DPE4

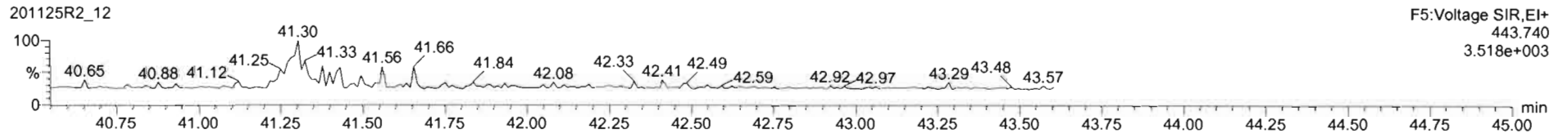
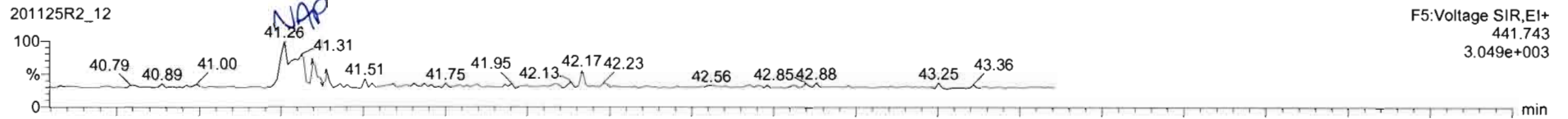


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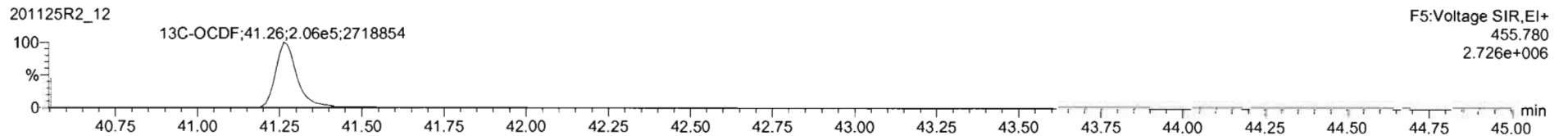
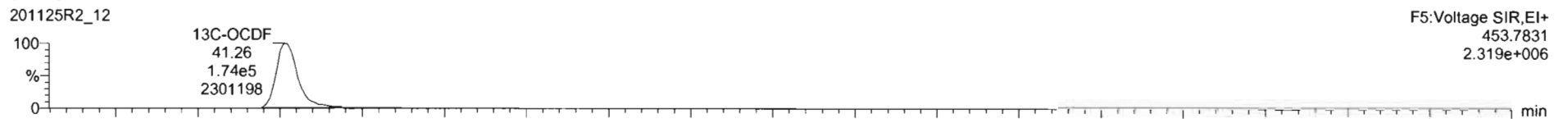
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Name: 201125R2_12, Date: 26-Nov-2020, Time: 05:45:33, ID: 2002374-08 USMPDI-054SC-A-08-09-201029 11.65, Description: USMPDI-054SC-A-08-09-201029

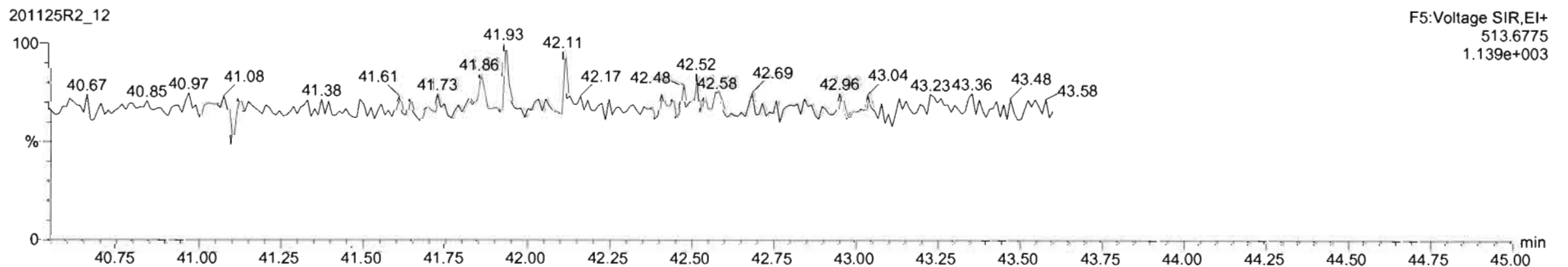
OCDF



¹³C-OCDF



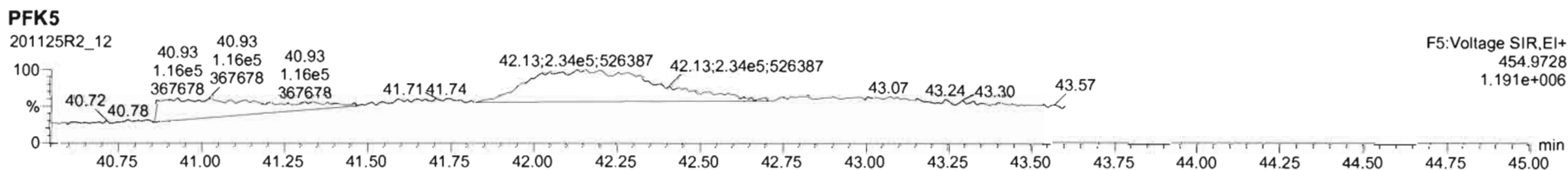
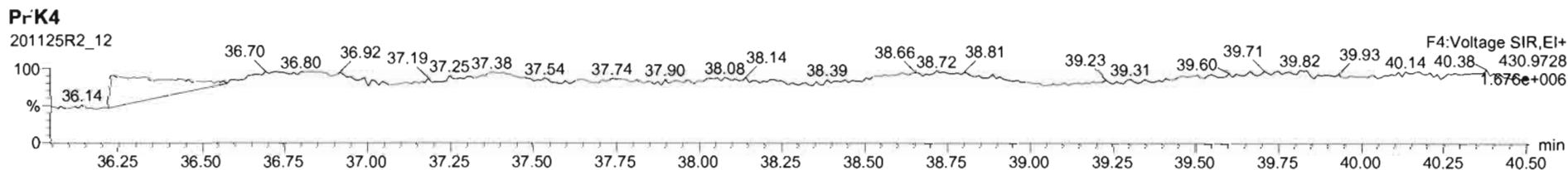
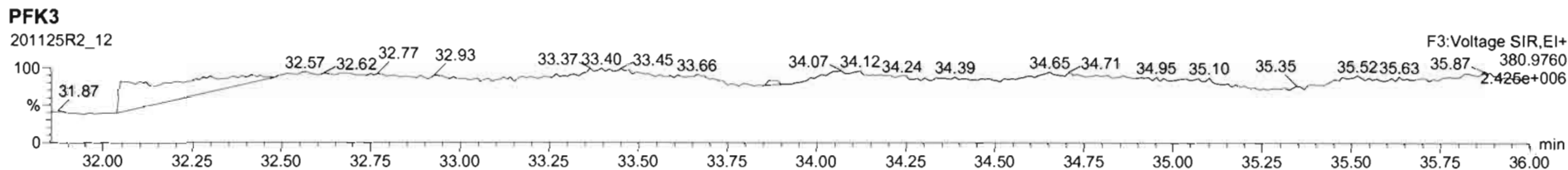
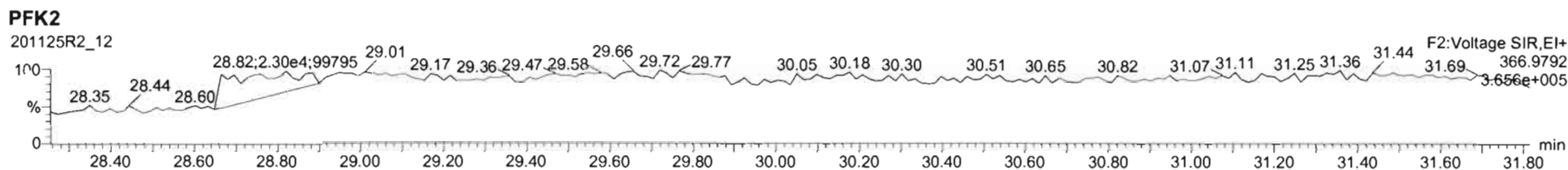
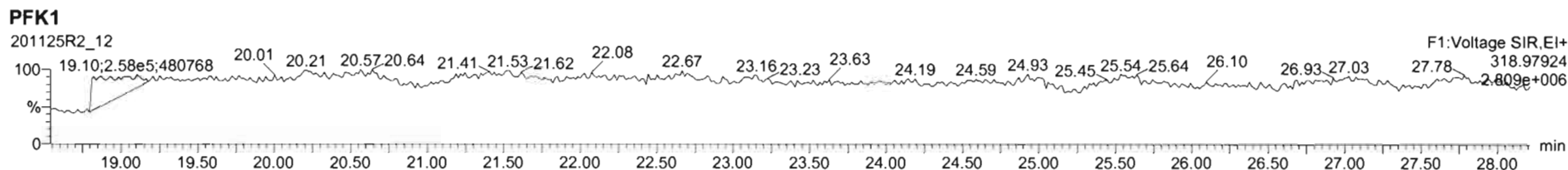
DPE5



Dataset: Untitled

Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_12, Date: 26-Nov-2020, Time: 05:45:33, ID: 2002374-08 USMPDI-054SC-A-08-09-201029 11.65, Description: USMPDI-054SC-A-08-09-201029



Dataset: U:\VG12.PRO\Results\201125R2\201125R2-13B.qld

Last Altered: Tuesday, December 01, 2020 11:47:28 AM Pacific Standard Time
Printed: Tuesday, December 01, 2020 11:47:49 AM Pacific Standard Time

GRB 12/01/2020

CT 12/04/2020

Method: Untitled 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R2_13, Date: 26-Nov-2020, Time: 06:30:25, ID: B0K0172-DUP1 Duplicate 11.57, Description: Duplicate

GRB 12/01/2020

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.950	11.570	26.082		1.001				0.0666	
2	2 1,2,3,7,8-PeCDD			NO	0.885	11.570	30.800		1.000				0.115	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	11.570	34.132		1.000				0.181	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	11.570	34.249		1.000				0.182	
5	5 1,2,3,7,8,9-HxCDD			NO	0.934	11.570	34.516		1.000				0.209	
6	6 1,2,3,4,6,7,8-HpCDD	3.41e3	1.07	NO	0.870	11.570	38.016	38.03	1.000	1.000	3.1252		0.418	3.13
7	7 OCDD	2.11e4	0.90	NO	0.872	11.570	40.973	40.99	1.000	1.001	26.020		0.609	26.0
8	8 2,3,7,8-TCDF			NO	0.824	11.570	25.381		1.000				0.0348	
9	9 1,2,3,7,8-PeCDF			NO	0.963	11.570	29.540		1.000				0.0598	
10	10 2,3,4,7,8-PeCDF			NO	1.07	11.570	30.602		1.000				0.0560	
11	11 1,2,3,4,7,8-HxCDF	2.61e2	1.24	NO	0.953	11.570	33.217	33.24	1.000	1.001	0.12974		0.0425	0.130
12	12 1,2,3,6,7,8-HxCDF	1.22e2	1.49	YES	1.01	11.570	33.345	33.33	1.000	1.000	0.053722		0.0392	0.0484
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	11.570	34.018		1.000				0.0830	
14	14 1,2,3,7,8,9-HxCDF			NO	0.951	11.570	35.017		1.000				0.141	
15	15 1,2,3,4,6,7,8-HpCDF	7.13e2	1.02	NO	0.999	11.570	36.593	36.60	1.000	1.000	0.47231		0.156	0.472
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	11.570	38.645		1.000				0.178	
17	17 OCDF	9.42e2	0.76	NO	0.868	11.570	41.269	41.29	1.000	1.001	0.96851		0.187	0.969
18	18 13C-2,3,7,8-TCDD	4.80e5	0.81	NO	1.11	11.570	26.058	26.05	1.030	1.030	208.07	105	0.353	
19	19 13C-1,2,3,7,8-PeCDD	3.10e5	0.64	NO	0.859	11.570	30.774	30.79	1.216	1.217	173.59	87.7	0.613	
20	20 13C-1,2,3,4,7,8-HxCDD	2.74e5	1.29	NO	0.700	11.570	34.121	34.12	1.014	1.014	162.60	82.2	0.664	
21	21 13C-1,2,3,6,7,8-HxCDD	3.31e5	1.31	NO	0.833	11.570	34.259	34.24	1.018	1.017	164.70	83.2	0.558	
22	22 13C-1,2,3,7,8,9-HxCDD	3.05e5	1.31	NO	0.762	11.570	34.501	34.51	1.025	1.025	166.14	83.9	0.610	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.48e5	1.06	NO	0.650	11.570	37.984	38.02	1.129	1.130	158.51	80.1	1.17	
24	24 13C-OCDD	3.68e5	0.93	NO	0.539	11.570	40.949	40.97	1.217	1.218	282.50	71.4	0.761	
25	25 13C-2,3,7,8-TCDF	8.27e5	0.79	NO	0.981	11.570	25.380	25.37	1.003	1.003	202.10	102	0.347	
26	26 13C-1,2,3,7,8-PeCDF	6.23e5	1.61	NO	0.792	11.570	29.506	29.53	1.166	1.167	188.53	95.3	0.982	
27	27 13C-2,3,4,7,8-PeCDF	6.35e5	1.66	NO	0.778	11.570	30.564	30.60	1.208	1.210	195.58	98.8	1.00	
28	28 13C-1,2,3,4,7,8-HxCDF	4.18e5	0.50	NO	0.954	11.570	33.212	33.22	0.987	0.987	181.54	91.7	0.754	
29	29 13C-1,2,3,6,7,8-HxCDF	4.45e5	0.50	NO	1.01	11.570	33.343	33.35	0.991	0.991	183.27	92.6	0.715	
30	30 13C-2,3,4,6,7,8-HxCDF	4.05e5	0.50	NO	0.921	11.570	34.013	34.01	1.011	1.011	182.32	92.1	0.781	
31	31 13C-1,2,3,7,8,9-HxCDF	3.35e5	0.51	NO	0.803	11.570	35.009	35.02	1.040	1.041	172.69	87.3	0.895	

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-13B.qld

Last Altered: Tuesday, December 01, 2020 11:47:28 AM Pacific Standard Time

Printed: Tuesday, December 01, 2020 11:47:49 AM Pacific Standard Time

Name: 201125R2_13, Date: 26-Nov-2020, Time: 06:30:25, ID: B0K0172-DUP1 Duplicate 11.57, Description: Duplicate

GPB 12/01/2020

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	2.99e5	0.41	NO	0.735	11.570	36.577	36.59	1.087	1.087	168.56	85.2	0.915	
33	13C-1,2,3,4,7,8,9-HpCDF	2.06e5	0.42	NO	0.568	11.570	38.613	38.65	1.147	1.148	150.15	75.9	1.19	
34	13C-OCDF	4.44e5	0.88	NO	0.629	11.570	41.232	41.26	1.225	1.226	292.22	73.8	0.732	
35	37Cl-2,3,7,8-TCDD	2.09e5			1.09	11.570	26.058	26.08	1.030	1.031	92.145	116	0.149	
36	13C-1,2,3,4-TCDD	4.12e5	0.84	NO	1.00	11.570	25.370	25.30	1.000	1.000	197.90	100	0.391	
37	13C-1,2,3,4-TCDF	8.26e5	0.81	NO	1.00	11.570	23.870	23.79	1.000	1.000	197.90	100	0.340	
38	13C-1,2,3,4,6,9-HxCDF	4.77e5	0.50	NO	1.00	11.570	33.710	33.65	1.000	1.000	197.90	100	0.719	
39	Total Tetra-Dioxins				0.950	11.570	24.620		0.000		0.26151		0.0666	0.262
40	Total Penta-Dioxins				0.885	11.570	29.960		0.000				0.0423	
41	Total Hexa-Dioxins				0.915	11.570	33.635		0.000		2.1709		0.198	2.17
42	Total Hepta-Dioxins				0.870	11.570	37.640		0.000		8.6187		0.418	8.62
43	Total Tetra-Furans				0.824	11.570	23.610		0.000				0.0156	
44	1st Func. Penta-Furans				0.963	11.570	26.930		0.000				0.0111	
45	Total Penta-Furans				0.963	11.570	29.275		0.000				0.0237	
46	Total Hexa-Furans				0.991	11.570	33.555		0.000		0.12974		0.0490	0.296
47	Total Hepta-Furans				0.999	11.570	37.835		0.000		1.1557		0.174	1.16

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-13B.qld

Last Altered: Tuesday, December 01, 2020 11:47:28 AM Pacific Standard Time

Printed: Tuesday, December 01, 2020 11:47:49 AM Pacific Standard Time

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Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R2_13, Date: 26-Nov-2020, Time: 06:30:25, ID: B0K0172-DUP1 Duplicate 11.57, Description: Duplicate

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.98	4.273e3	4.221e3	2.571e2	3.457e2	0.74	NO	6.027e2	0.26151	0.26151	0.0666

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.50	2.033e4	2.129e4	1.141e3	9.105e2	1.25	NO	2.052e3	1.4628	1.4628	0.198
2	Total Hexa-Dioxins	33.39	1.035e4	6.880e3	5.776e2	4.156e2	1.39	NO	9.932e2	0.70816	0.70816	0.198

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.99	3.386e4	3.377e4	3.120e3	2.876e3	1.08	NO	5.996e3	5.4935	5.4935	0.418
2	1,2,3,4,6,7,8-HpCDD	38.03	2.239e4	2.100e4	1.761e3	1.650e3	1.07	NO	3.411e3	3.1252	3.1252	0.418

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-13B.qld

Last Altered: Tuesday, December 01, 2020 11:47:28 AM Pacific Standard Time

Printed: Tuesday, December 01, 2020 11:47:49 AM Pacific Standard Time

Name: 201125R2_13, Date: 26-Nov-2020, Time: 06:30:25, ID: B0K0172-DUP1 Duplicate 11.57, Description: Duplicate

Penta-Furans

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

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.76	3.373e3	2.345e3	1.934e2	1.057e2	1.83	YES	0.000e0	0.00000	0.11814	0.0490
2	1,2,3,4,7,8-HxCDF	33.24	2.663e3	1.830e3	1.445e2	1.166e2	1.24	NO	2.610e2	0.12974	0.12974	0.0425
3	1,2,3,6,7,8-HxCDF	33.33	1.721e3	1.050e3	7.274e1	4.894e1	1.49	YES	1.217e2	0.00000	0.048399	0.0392

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	36.60	4.752e3	4.375e3	3.597e2	3.529e2	1.02	NO	7.126e2	0.47231	0.47231	0.156
2	Total Hepta-Furans	37.33	4.354e3	5.065e3	4.103e2	4.597e2	0.89	NO	8.700e2	0.68342	0.68342	0.174

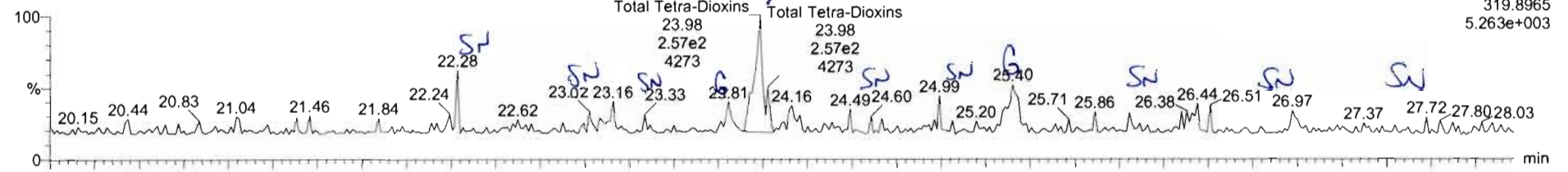
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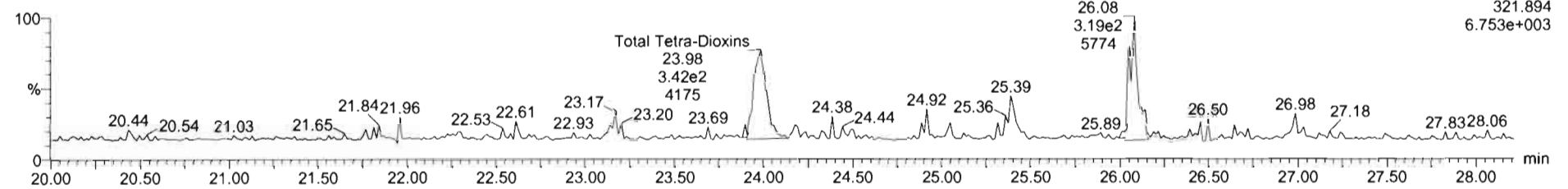
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2,3,7,8-TCDD

201125R2_13

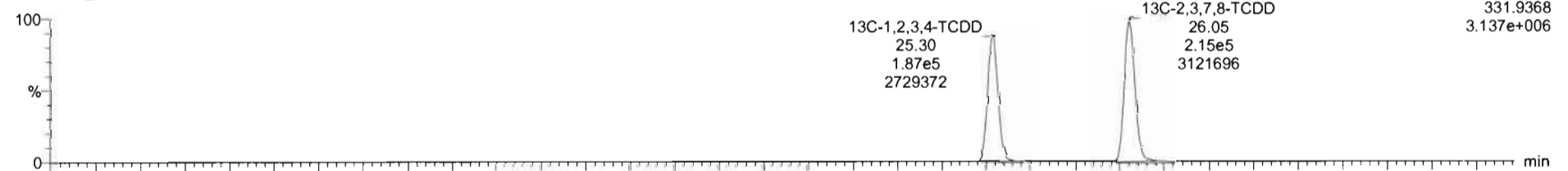


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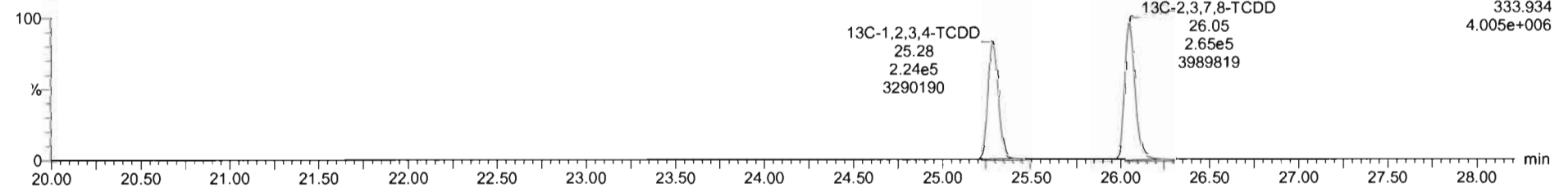


13C-2,3,7,8-TCDD

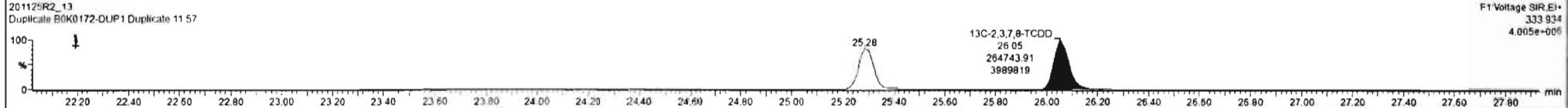
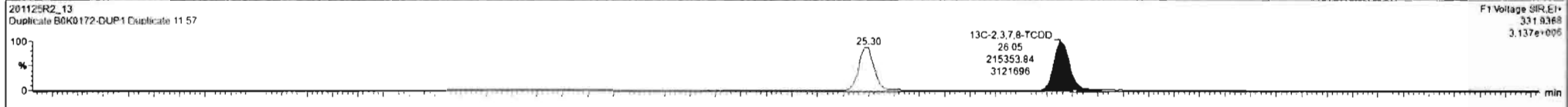
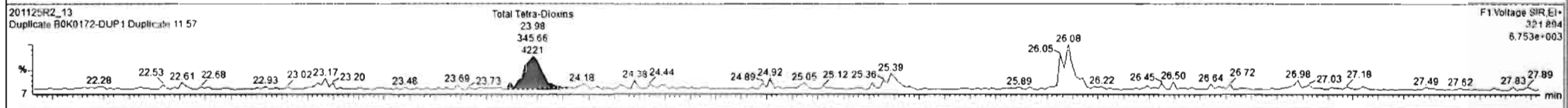
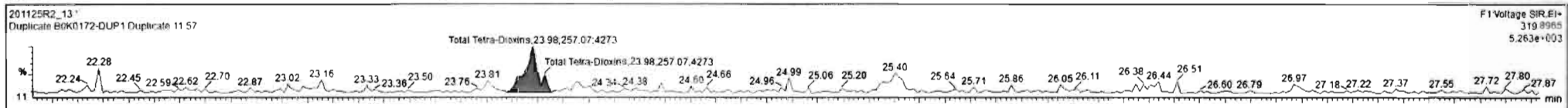
201125R2_13



201125R2_13



Name	Resp	RA	isy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
38 13C-1,2,3,4,6,9-HxCDF	4.77e5	0.50	NO	1.0000	11.570	33.65	1.000	173	100	0.628	
39 Total Tetra-Dioxins				0.9501	11.570			0.228	0.0582	0.228	
40 Total Penta-Dioxins				0.8655	11.570				0.0370		
41 Total Hexa-Dioxins				0.9145	11.570			1.35	0.173	1.89	
42 Total Hepta-Dioxins				0.8697	11.570			7.56	0.365	7.56	
43 Total Tetra-Furans				0.8243	11.570				0.0136		
44 1st Func. Penta-Furans				0.9626	11.570				0.00974		
45 Total Penta-Furans				0.9626	11.570				0.0207		
46 Total Hexa-Furans				0.9907	11.570				0.0428		
47 Total Hepta-Furans				0.9968	11.570			0.000	0.0679	0.336	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											



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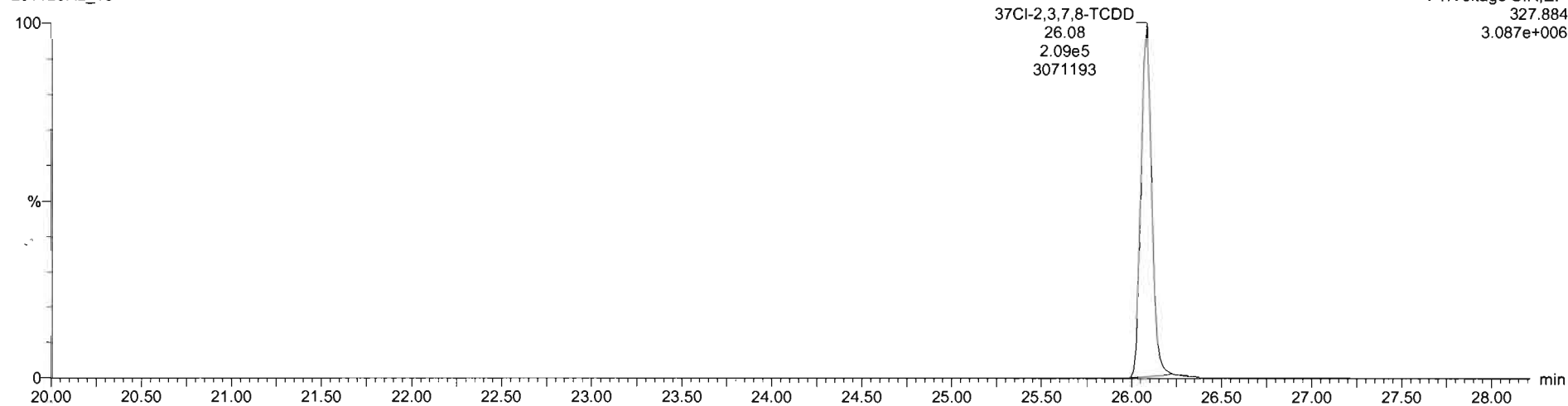
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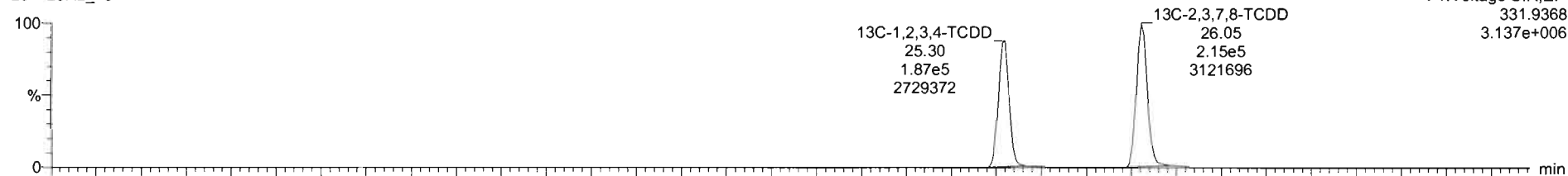
37Cl-2,3,7,8-TCDD

201125R2_13

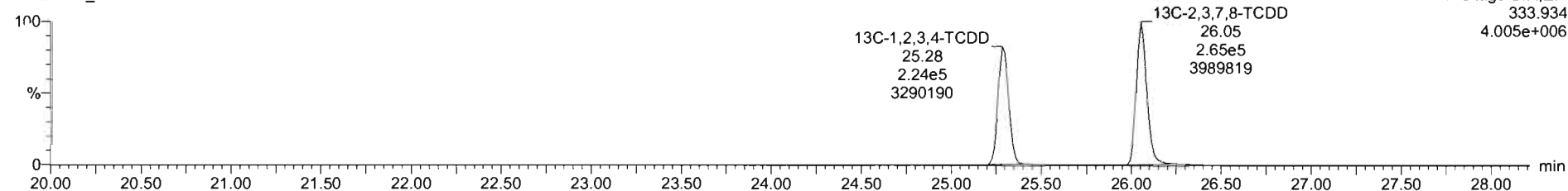


13C-1,2,3,4-TCDD

201125R2_13



201125R2_13



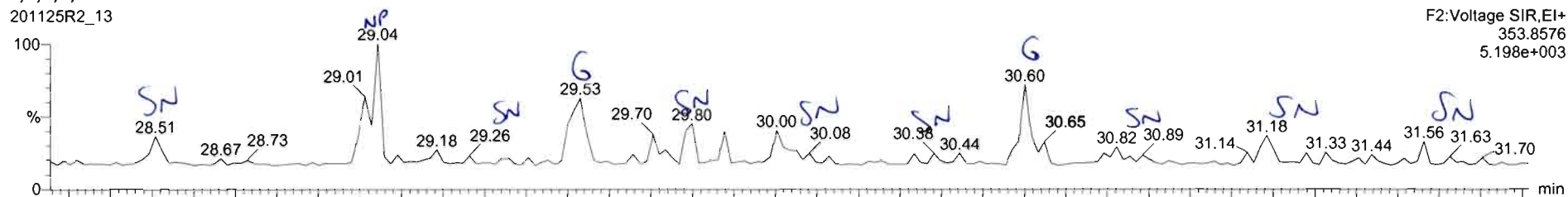
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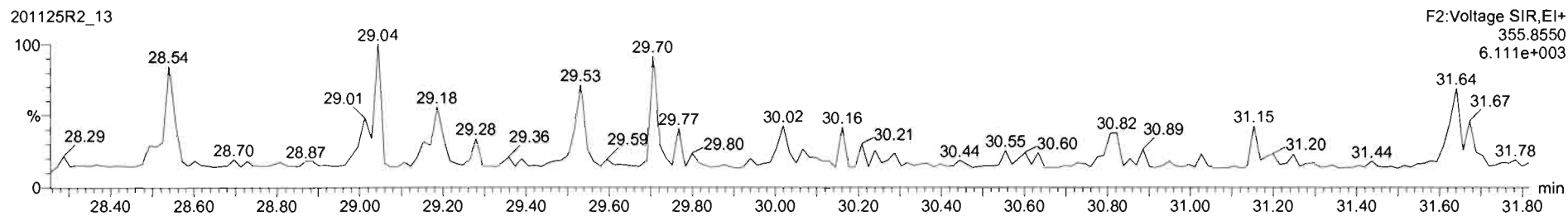
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1,2,3,7,8-PeCDD

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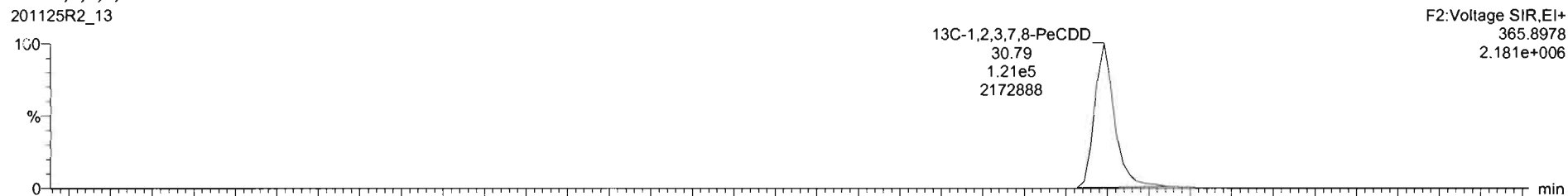


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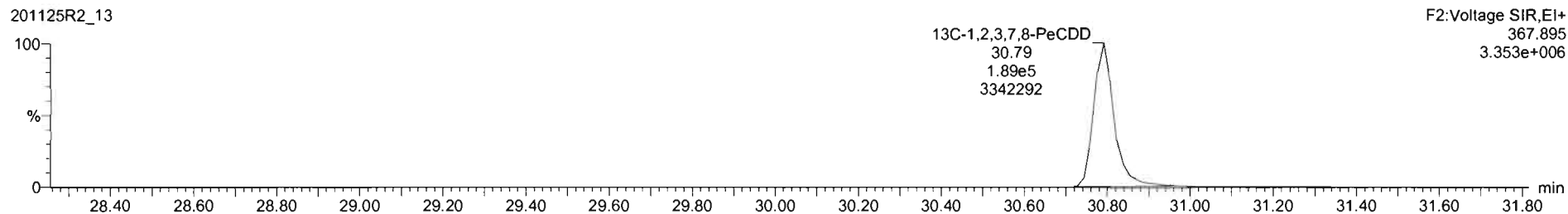


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201125R2_13



201125R2_13



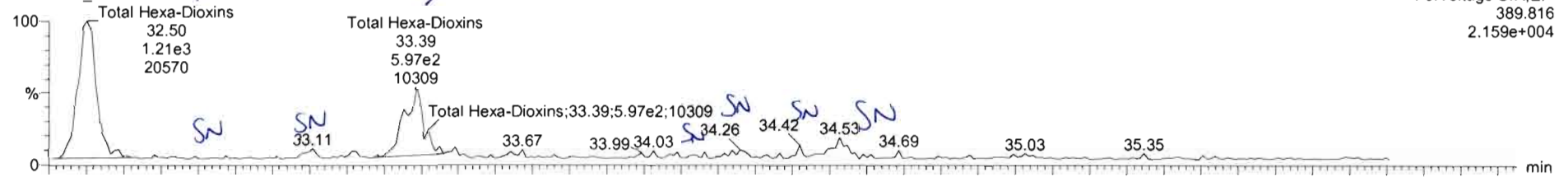
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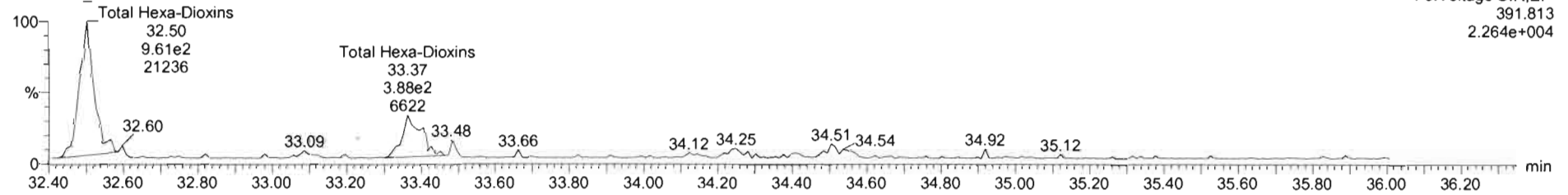
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1,2,3,4,7,8-HxCDD

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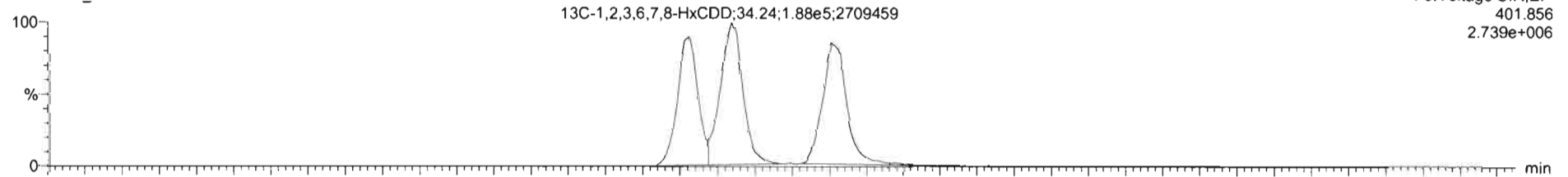


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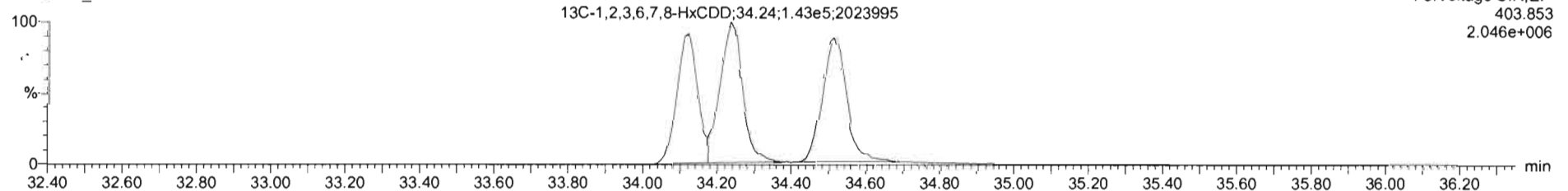


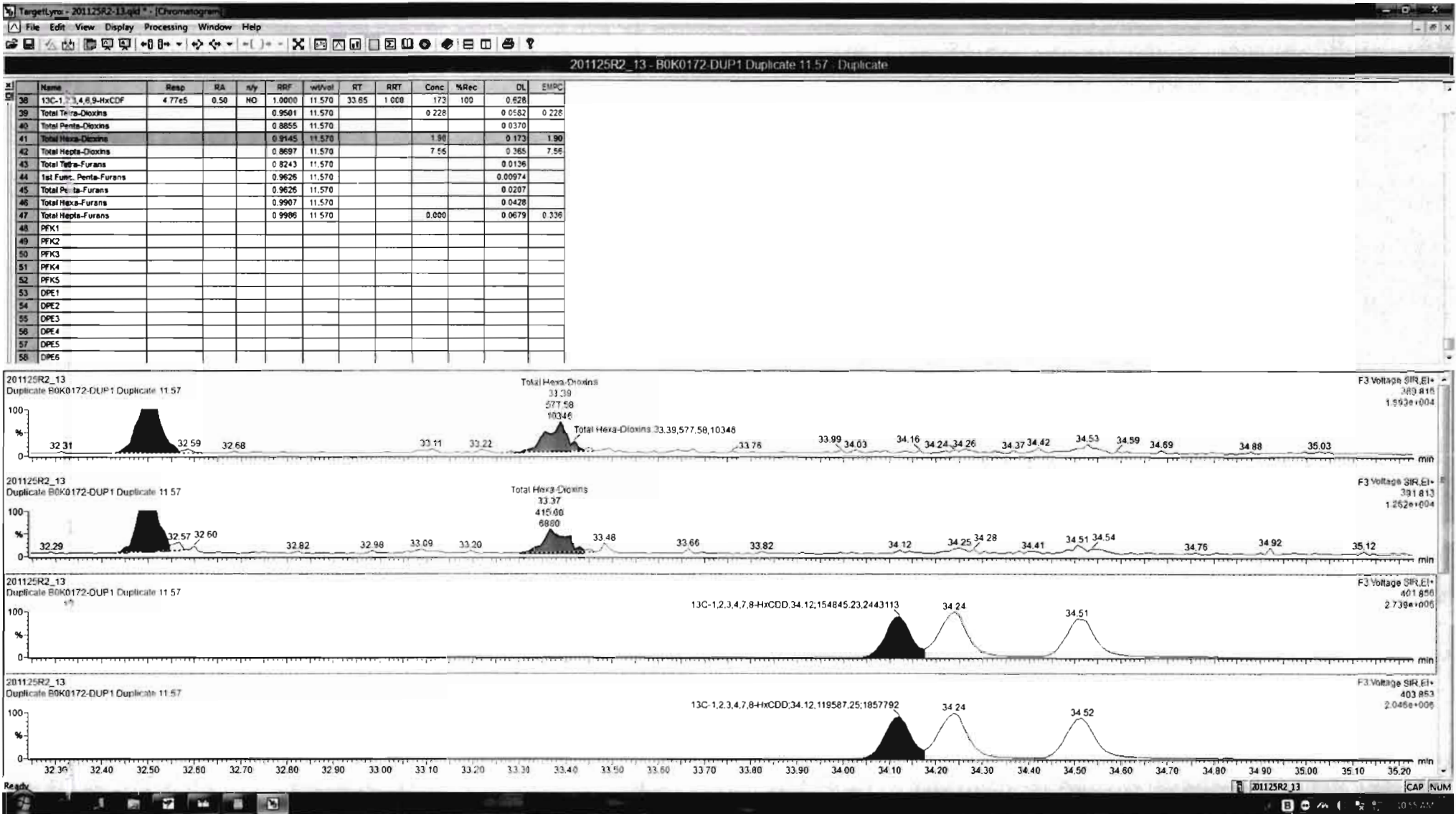
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201125R2_13



201125R2_13





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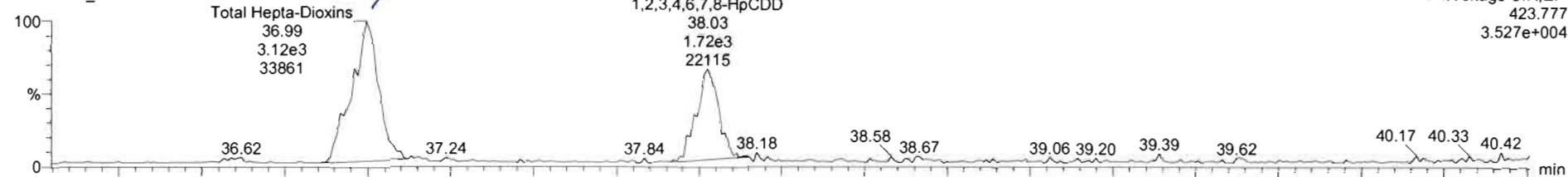
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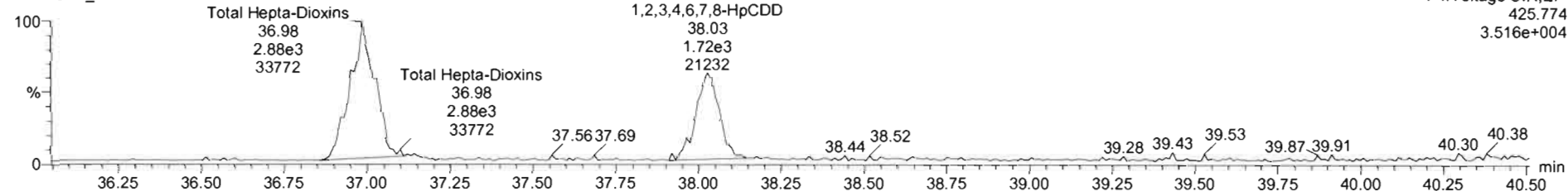
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1,2,3,4,6,7,8-HpCDD

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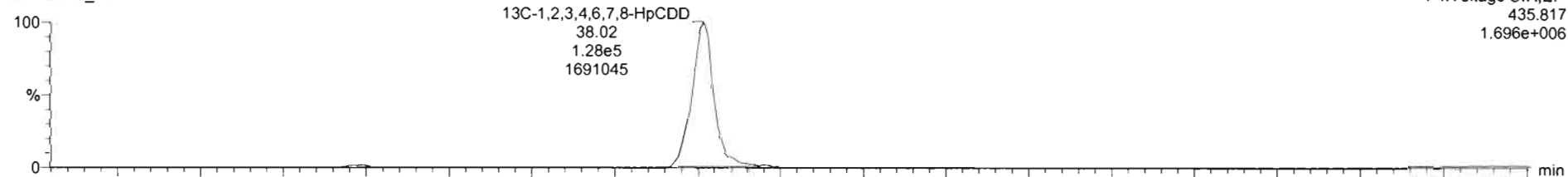


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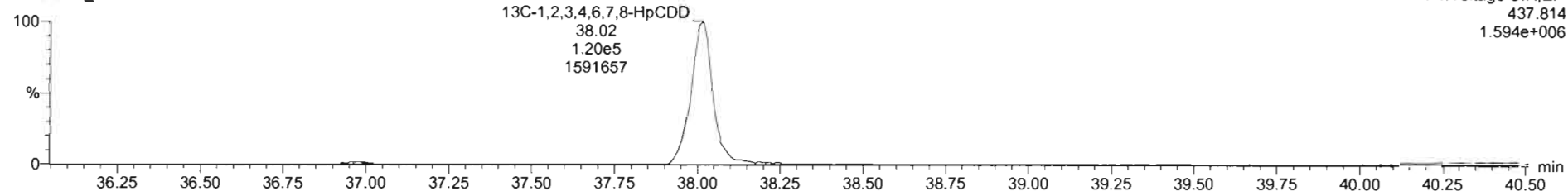


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201125R2_13



201125R2_13

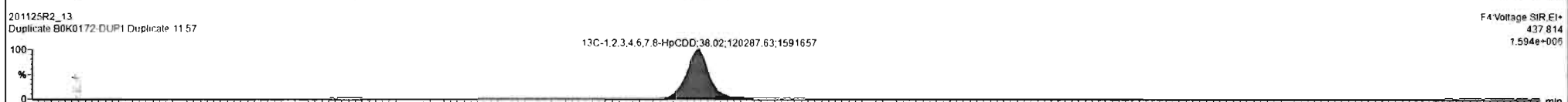
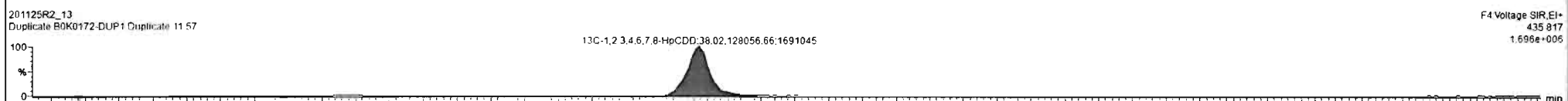
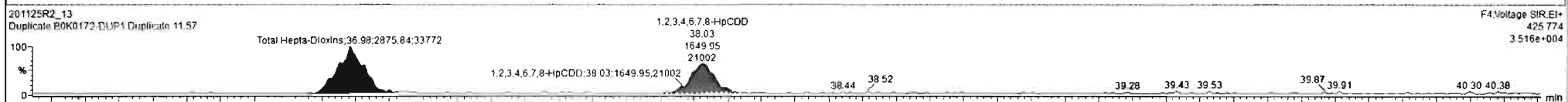
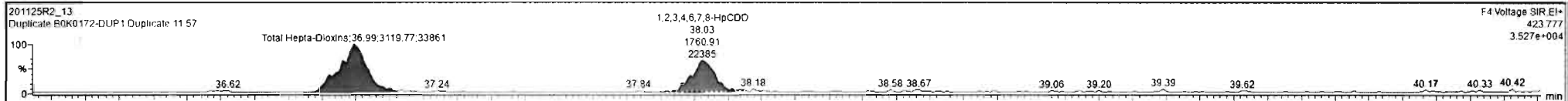


TargetLynx - 201125R2_13.qld - (Chromatogram)

File Edit View Display Processing Window Help

201125R2_13 - B0K0172-DUP1 Duplicate 11.57 - Duplicate

Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
38 13C-1,2,3,4,6,8-HxCDF	4.77e5	0.50	NO	1.0000	11.570	33.85	1.000	173	100	0.628	
39 Total Tetra-Dioxins				0.9501	11.570			0.228		0.0582	0.228
40 Total Penta-Dioxins				0.8855	11.570					0.0370	
41 Total Hexa-Dioxins				0.9145	11.570			1.90		0.173	1.90
42 Total Hepta-Dioxins				0.8697	11.570			7.53		0.365	7.53
43 Total Tetra-Furans				0.8243	11.570					0.0136	
44 1st Func. Penta-Furans				0.9626	11.570					0.00974	
45 Total Penta-Furans				0.9626	11.570					0.0207	
46 Total Hexa-Furans				0.9907	11.570					0.0428	
47 Total Hepta-Furans				0.9986	11.570			0.000		0.0679	0.336
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											



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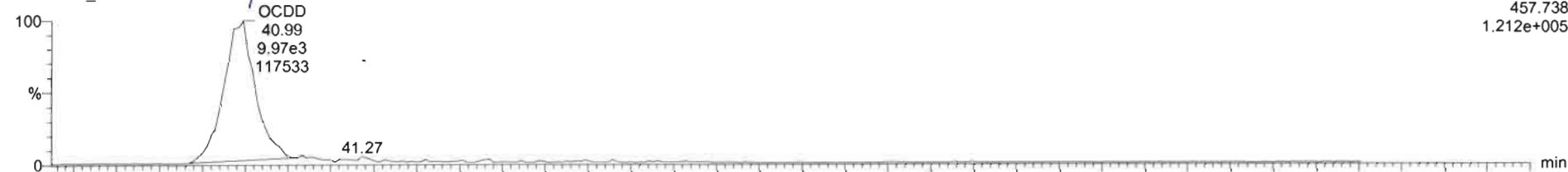
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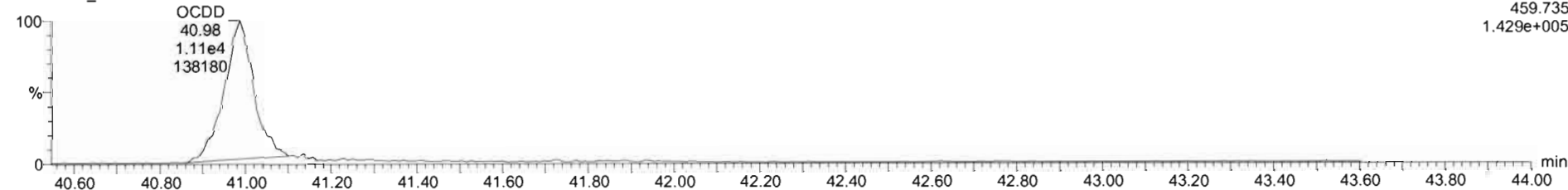
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OCDD

201125R2_13



201125R2_13

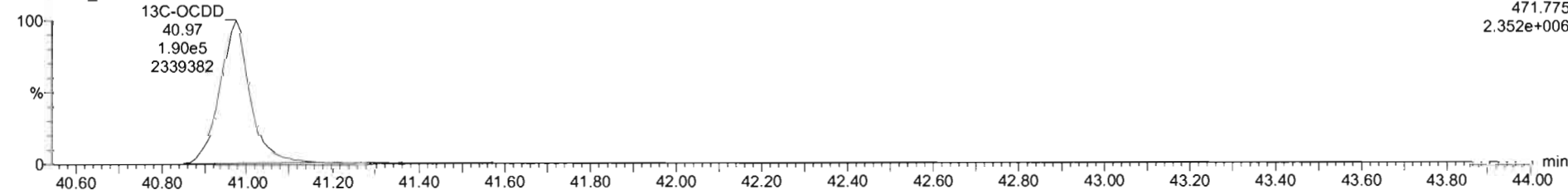


13C-OCDD

201125R2_13



201125R2_13

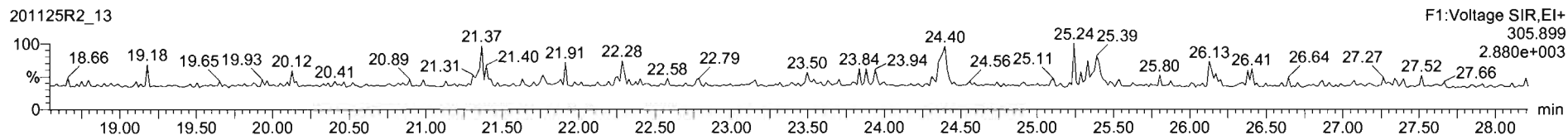
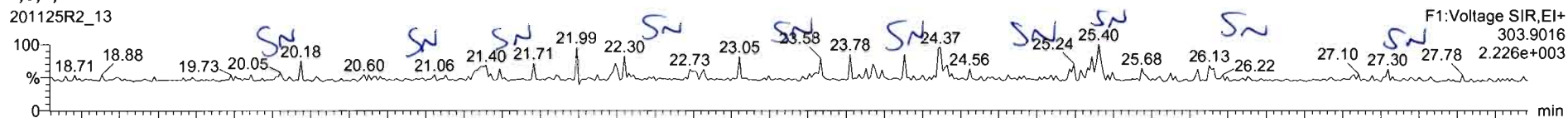


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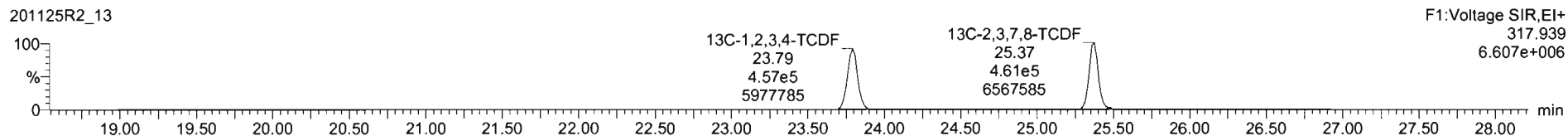
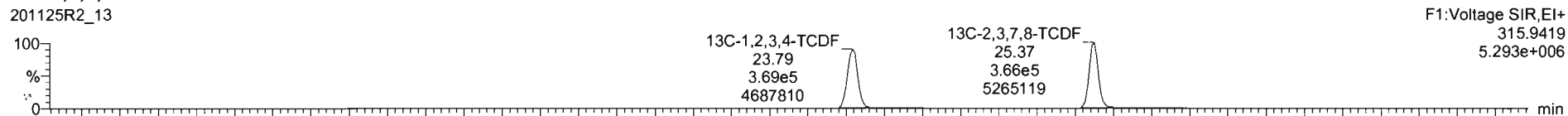
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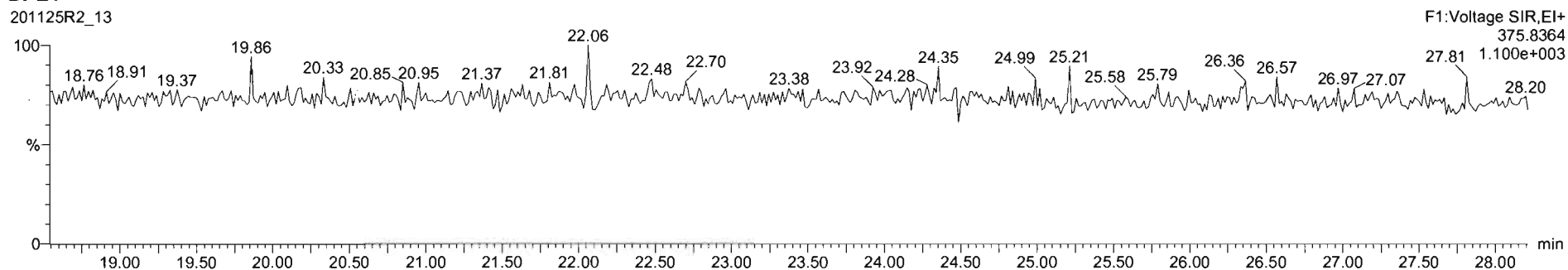
2,3,7,8-TCDF



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



DPE1



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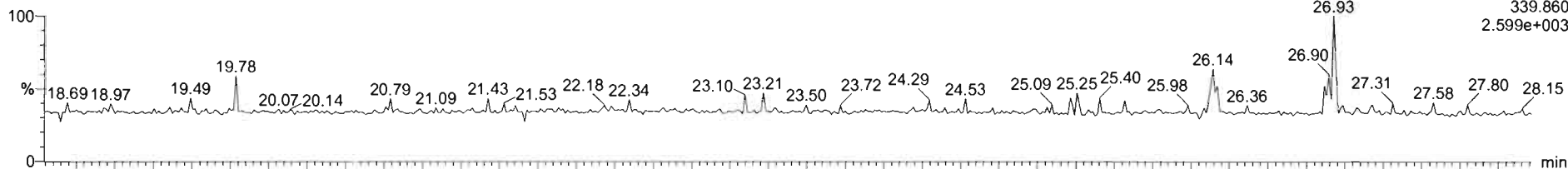
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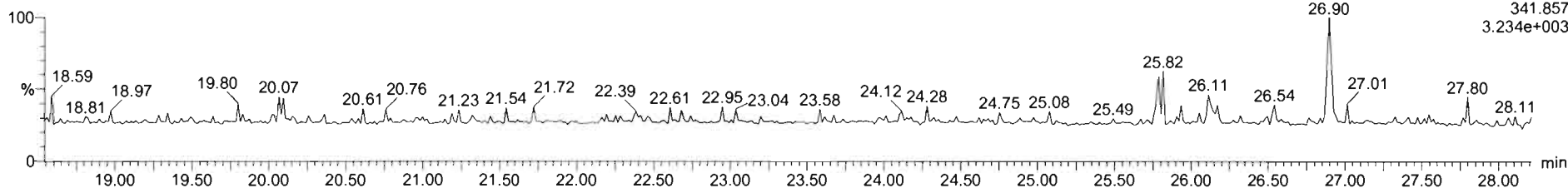
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1st Func. Penta-Furans

201125R2_13

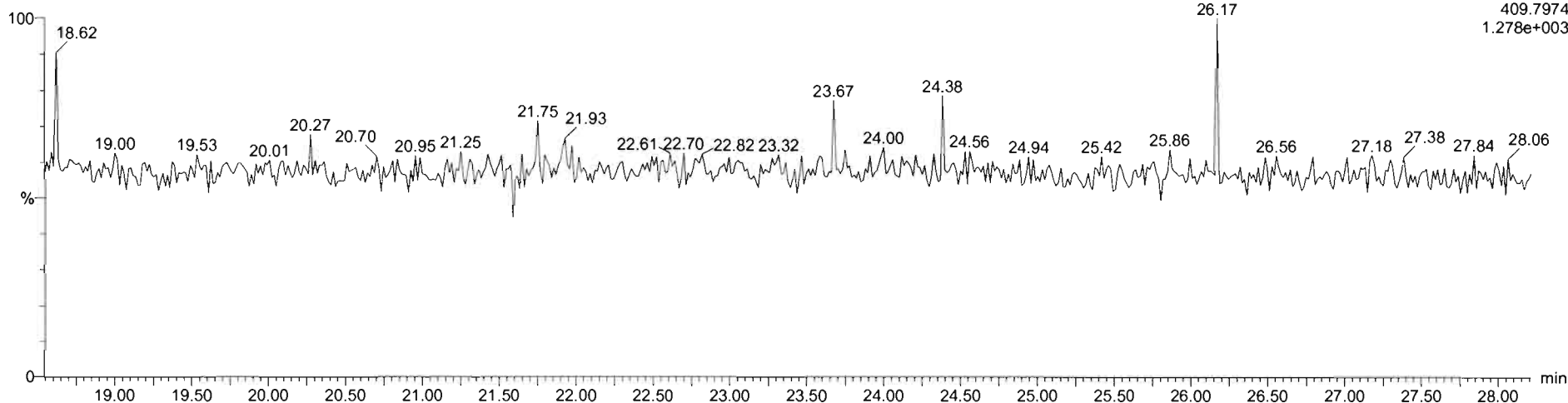


201125R2_13



DPE6

201125R2_13

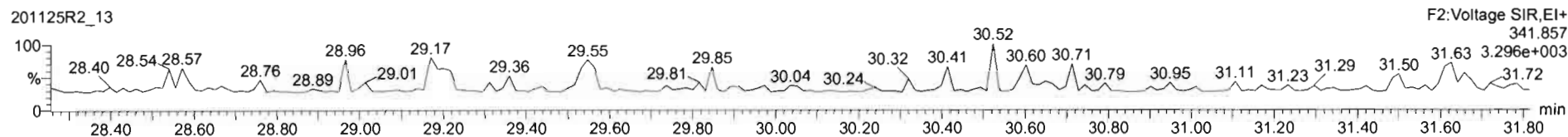
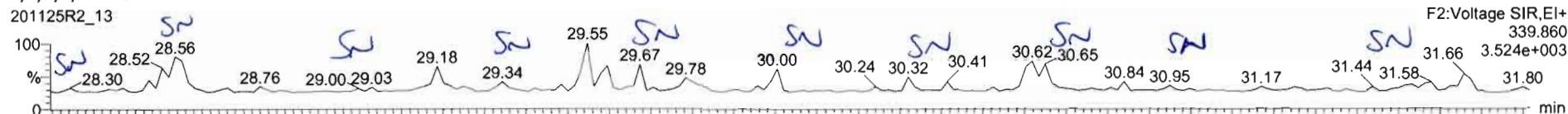


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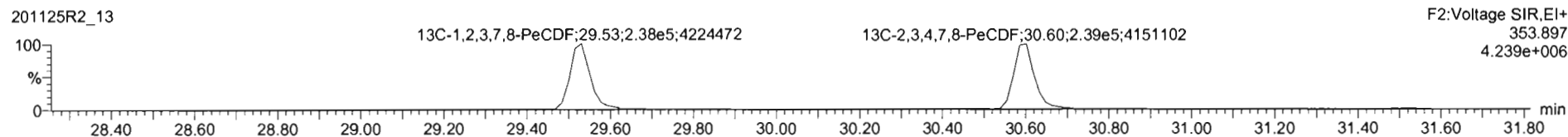
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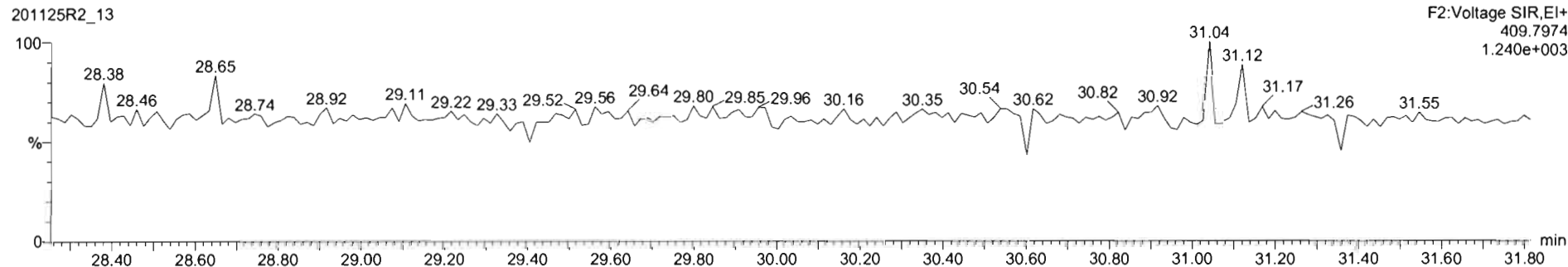
1,2,3,7,8-PeCDF



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



DPE2



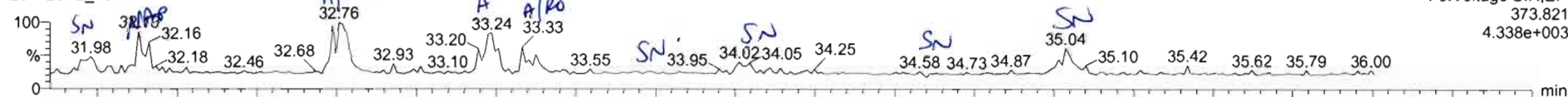
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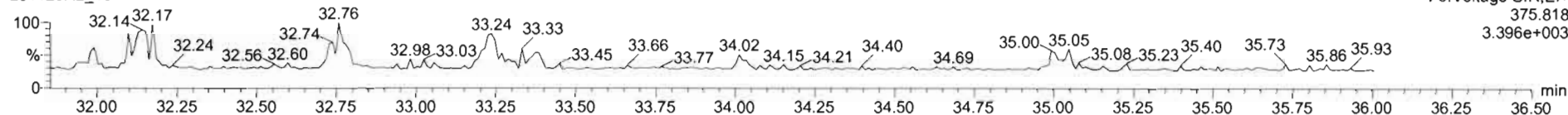
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1,2,3,4,7,8-HxCDF

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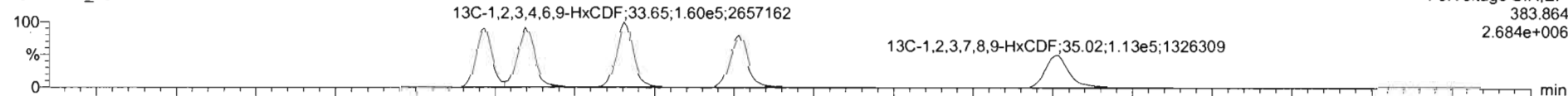


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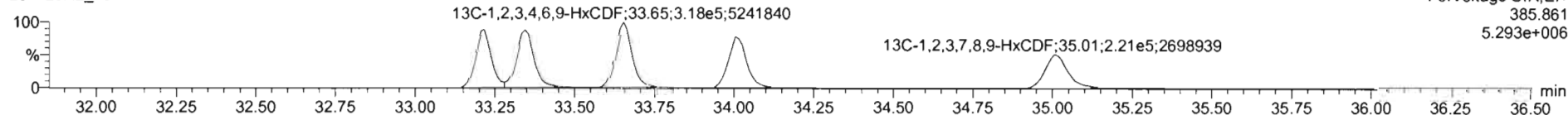


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201125R2_13

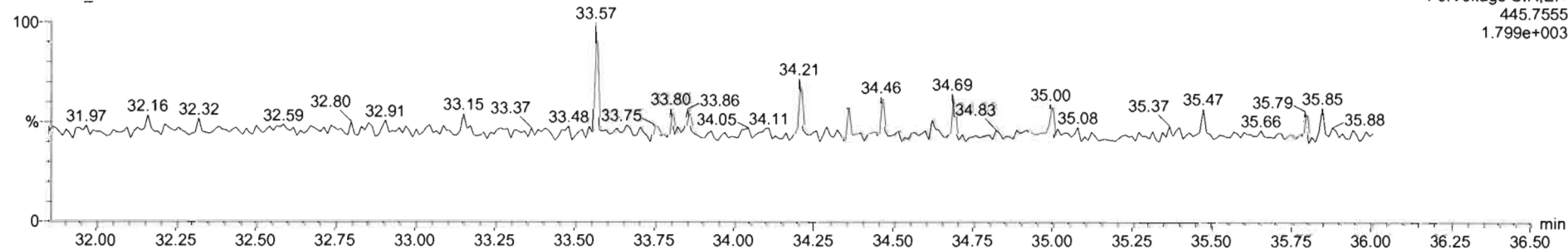


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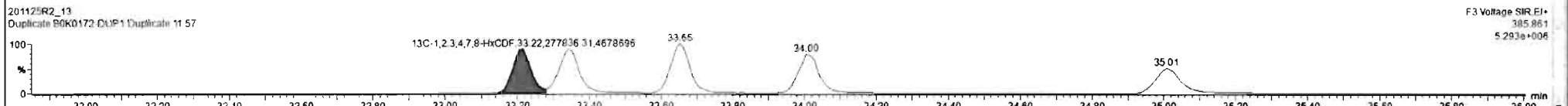
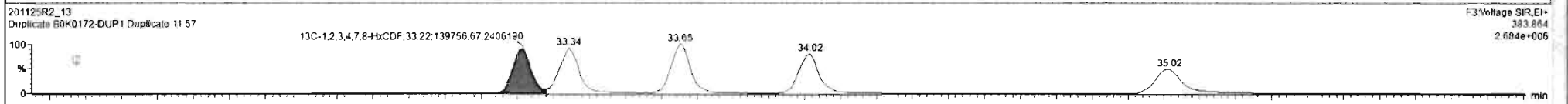
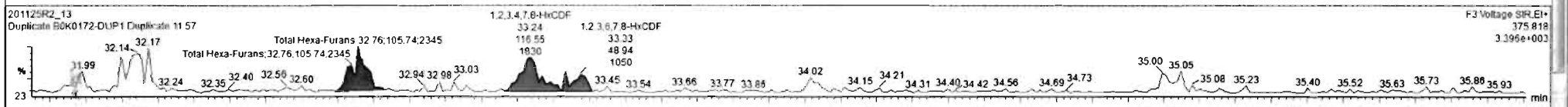
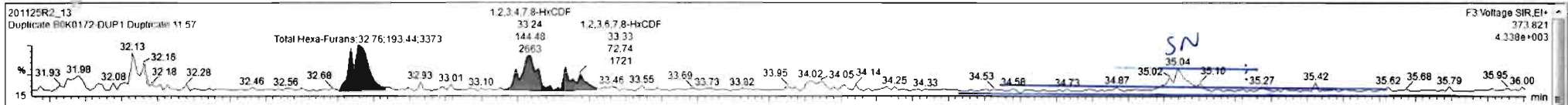


DPE3

201125R2_13



Name	Resp	RA	n/y	RtF	wtVcl	RT	RRT	Conc	%Rec	DL	EMPC
38 13C-1,2,3,4,6,8-HxCDF	4.77e5	0.50	NO	1.0000	11.570	33.65	1.000	173	100	0.628	
39 Total Tetra-Dioxins				0.9501	11.570			0.228		0.0582	0.228
40 Total Penta-Dioxins				0.8855	11.570					0.0370	
41 Total Hexa-Dioxins				0.9145	11.570			1.90		0.173	1.90
42 Total Hepta-Dioxins				0.8697	11.570			7.53		0.255	7.53
43 Total Tetra-Furans				0.8243	11.570					0.0136	
44 1st Func. Penta-Furans				0.9626	11.570					0.00974	
45 Total Penta-Furans				0.9626	11.570					0.0207	
46 Total Hexa-Furans				0.9907	11.570			0.113		0.0428	0.259
47 Total Hepta-Furans				0.9986	11.570			0.000		0.0679	0.336
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 OPE1											
54 OPE2											
55 OPE3											
56 OPE4											
57 OPE5											
58 OPE6											



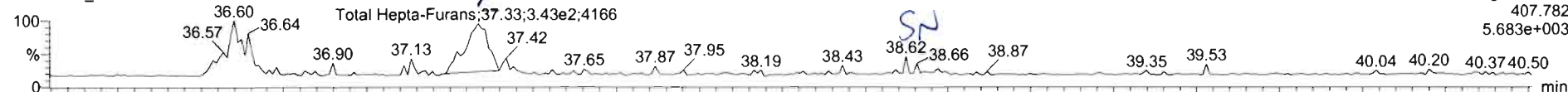
Dataset: Untitled

Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

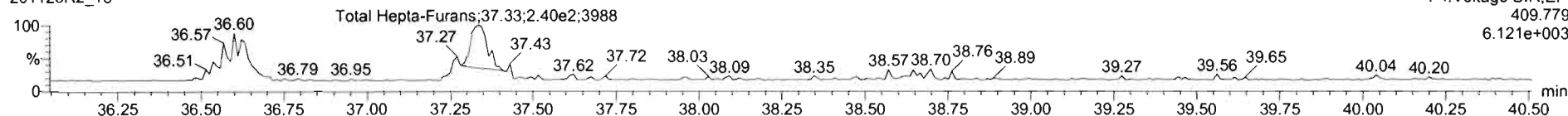
Name: 201125R2_13, Date: 26-Nov-2020, Time: 06:30:25, ID: B0K0172-DUP1 Duplicate 11.57, Description: Duplicate

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

201125R2_13

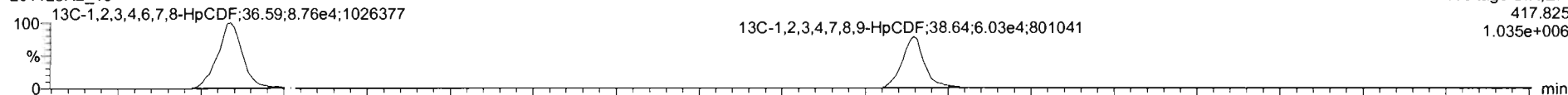


201125R2_13

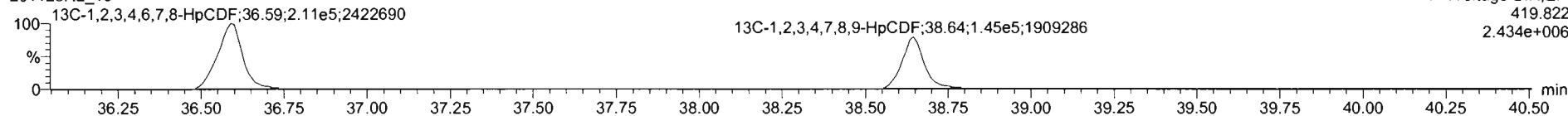


13C-1,2,3,4,6,7,8-HpCDF

201125R2_13

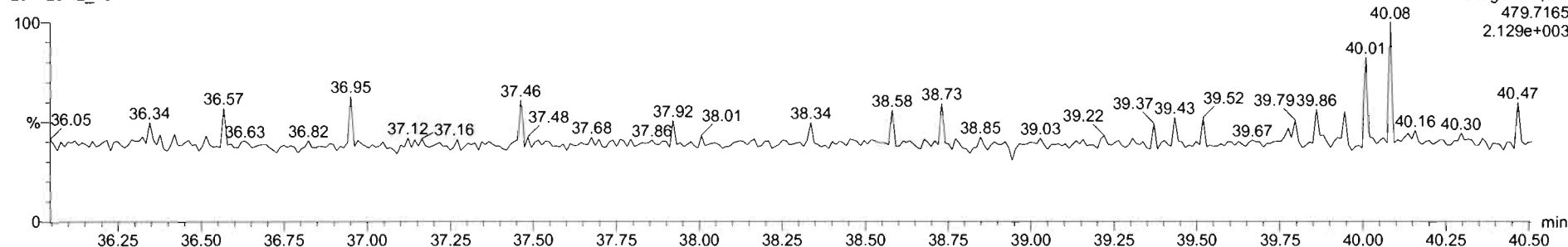


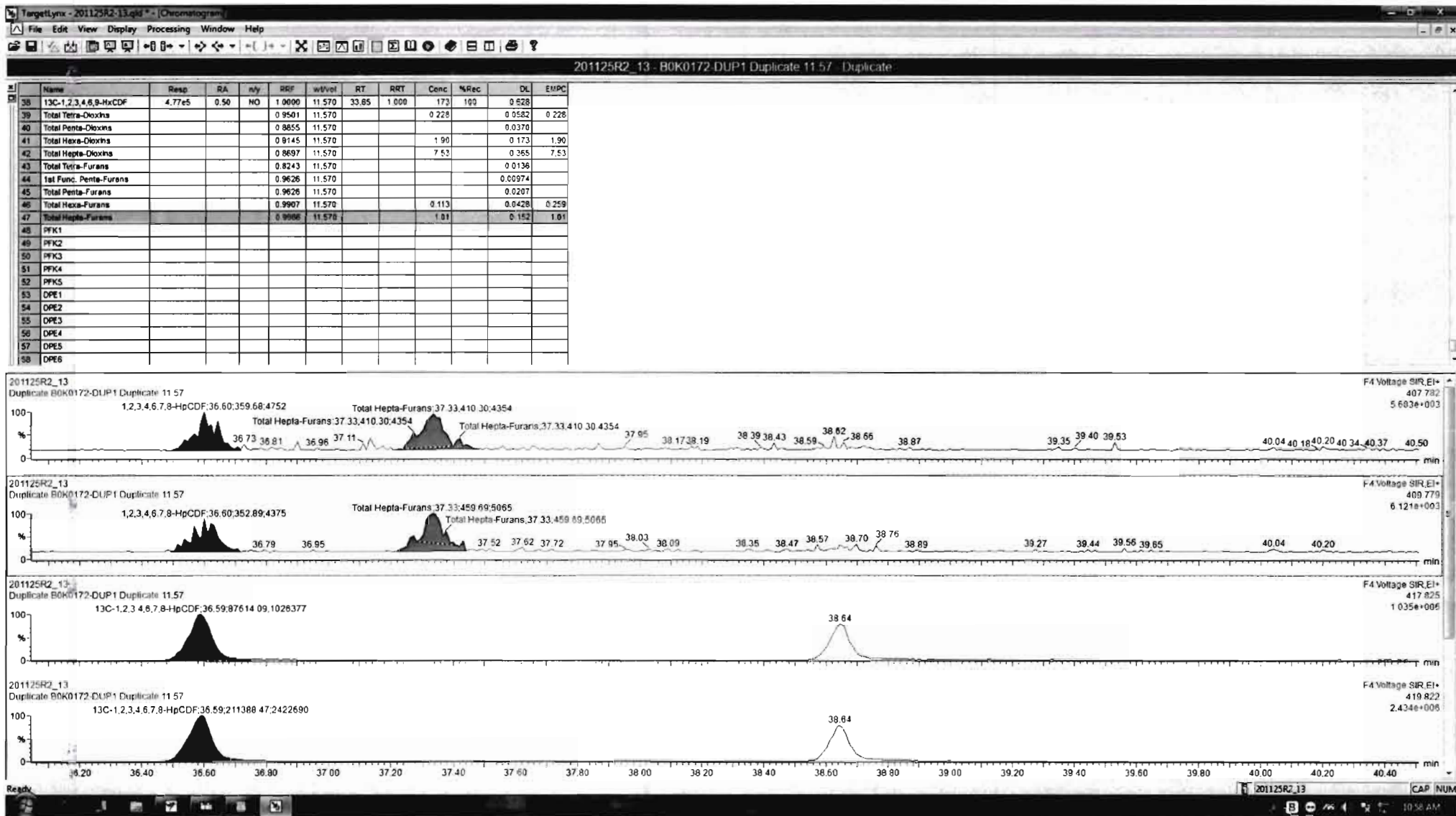
201125R2_13



DPE4

201125R2_13



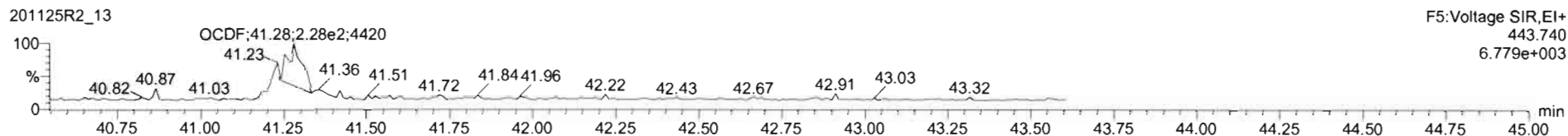
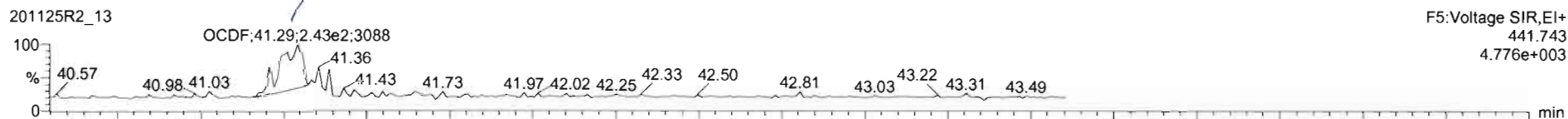


Dataset: Untitled

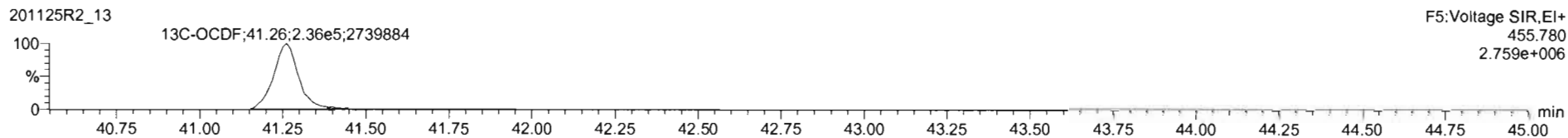
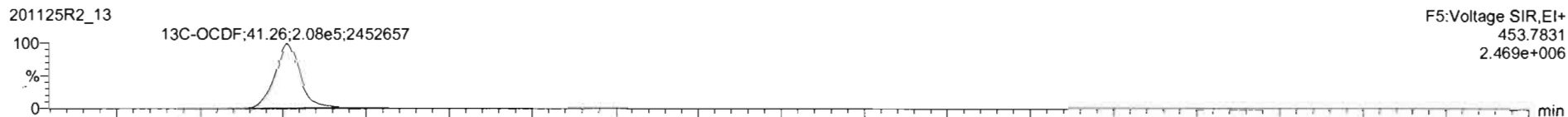
Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_13, Date: 26-Nov-2020, Time: 06:30:25, ID: B0K0172-DUP1 Duplicate 11.57, Description: Duplicate

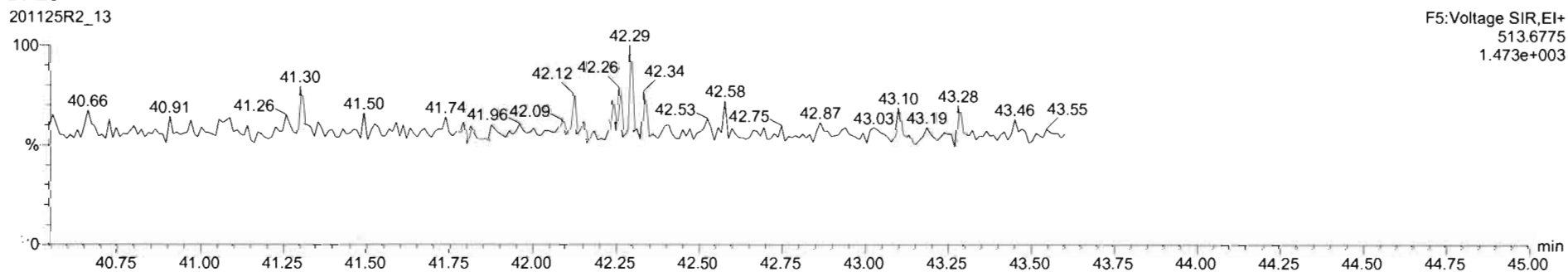
OCDF



13C-OCDF



DPE5

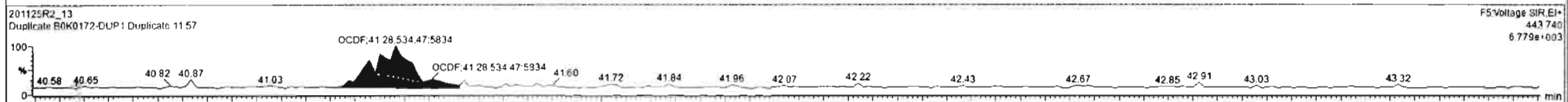
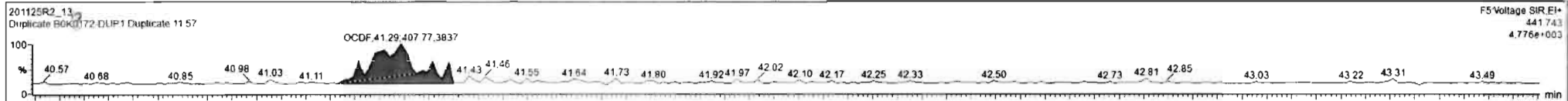


TargetLynx - 201125R2_13.Lab - (Chromatogram)

File Edit View Display Processing Window Help

201125R2_13 - B0K0172-DUP1 Duplicate 11 57 - Duplicate

#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.9501	11.570					0.0582	
2	1,2,3,7,8-PeCDD			NO	0.8855	11.570					0.100	
3	1,2,3,4,7,8-HxCDD			NO	1.0178	11.570					0.158	
4	1,2,3,6,7,8-HxCDD			NO	0.9145	11.570					0.159	
5	1,2,3,7,8,9-HxCDD			NO	0.9345	11.570					0.183	
6	1,2,3,4,6,7,8-HpCDD	3.45e3	1.00	NO	0.8697	11.570	38.03	1.000	2.76		0.255	2.76
7	OCDD	2.11e4	0.90	NO	0.8717	11.570	40.99	1.001	22.7		0.532	22.7
8	2,3,7,8-TCDF			NO	0.8243	11.570					0.0304	
9	1,2,3,7,8-PeCDF			NO	0.9626	11.570					0.0522	
10	2,3,4,7,8-PeCDF			NO	1.0684	11.570					0.0489	
11	1,2,3,4,7,8-HxCDF			NO	0.9535	11.570					0.0670	
12	1,2,3,6,7,8-HxCDF			NO	1.0080	11.570					0.0618	
13	2,3,4,6,7,8-HxCDF			NO	0.9907	11.570					0.0725	
14	1,2,3,7,8,9-HxCDF			NO	0.9506	11.570					0.123	
15	1,2,3,4,6,7,8-HpCDF			NO	0.9986	11.570					0.137	
16	1,2,3,4,7,8,9-HpCDF			NO	1.1238	11.570					0.156	
17	OCDF	9.42e2	0.76	NO	0.9662	11.570	41.28	1.001	0.848		0.164	0.848
18	13C-2,3,7,8-TCDD	4.80e5	0.81	NO	1.1089	11.570	28.05	1.030	182	105	0.308	
19	13C-1,2,3,7,8-PeCDD	3.10e5	0.84	NO	0.8585	11.570	30.79	1.217	152	87.7	0.536	
20	13C-1,2,3,4,7,8-HxCDD	2.74e5	1.29	NO	0.8997	11.570	34.12	1.014	142	82.2	0.580	
21	13C-1,2,3,6,7,8-HxCDD	3.31e5	1.31	NO	0.8327	11.570	34.24	1.017	144	83.2	0.487	

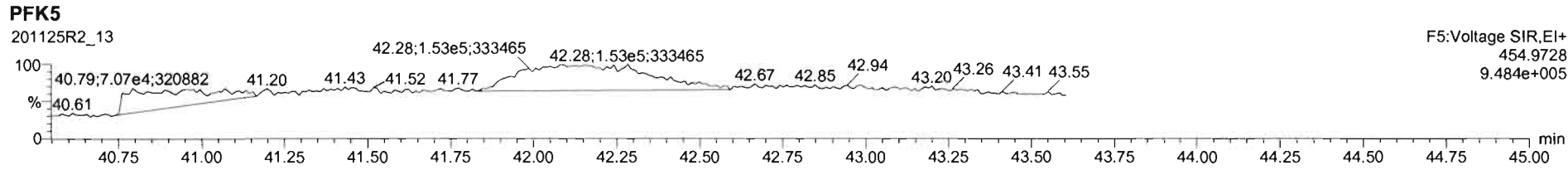
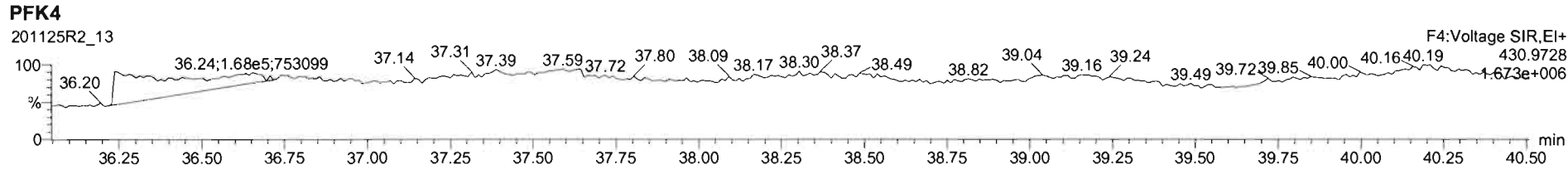
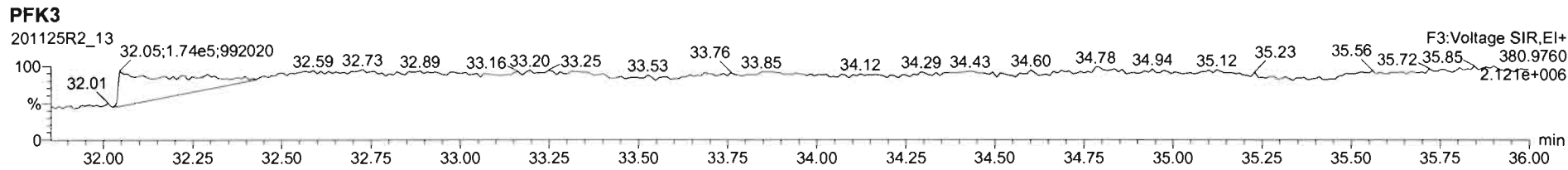
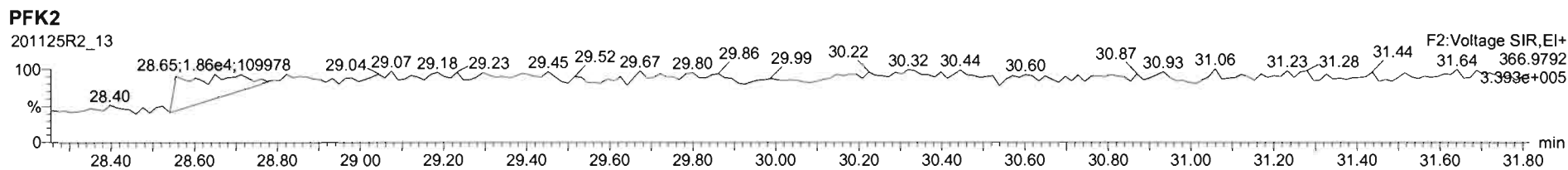
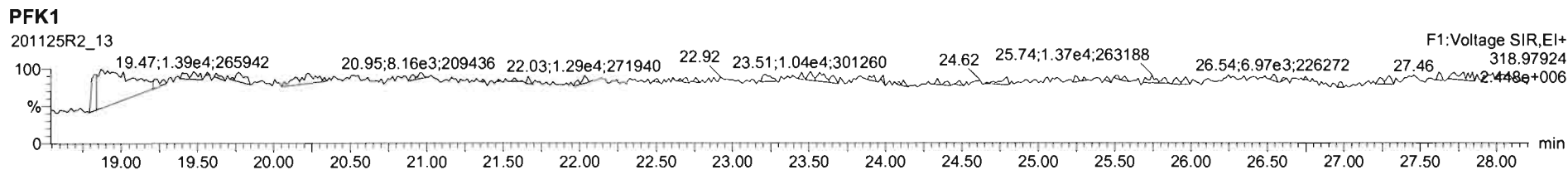


Dataset: Untitled

Last Altered: Thursday, November 26, 2020 07:50:06 Pacific Standard Time

Printed: Thursday, November 26, 2020 07:52:59 Pacific Standard Time

Name: 201125R2_13, Date: 26-Nov-2020, Time: 06:30:25, ID: B0K0172-DUP1 Duplicate 11.57, Description: Duplicate



CONTINUING CALIBRATION

PKMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST201125R1-2

Reviewed By: HN 12/01/2020

Initials & Date

End Calibration ID: NA

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

Mass resolution \geq

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

Intergrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

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

<u>Beg.</u>	<u>End</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>

Comments:

(A) END RES CHECK FAILED TO PRINT AT END OF 201125R1 SEQUENCE
END RES CHECK PROCESSED MANUALLY THE NEXT MORNING.

Dataset: U:\VG12.PRO\Results\201125R1\201125R1-2.qld

Last Altered: Wednesday, November 25, 2020 10:54:11 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:14:42 Pacific Standard Time

*GRB 11/26/2020
HIV R/01/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	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	5.56e4	4.70e5	0.79	NO	0.950	26.10	26.08	NO	1.001	1.001	12.453	125	NO
2	2 1,2,3,7,8-PeCDD	1.70e5	3.06e5	0.63	NO	0.885	30.80	30.81	NO	1.000	1.000	62.893	126	NO
3	3 1,2,3,4,7,8-HxCDD	1.81e5	3.07e5	1.25	NO	1.02	34.12	34.13	NO	1.000	1.001	57.977	116	NO
4	4 1,2,3,6,7,8-HxCDD	1.81e5	3.55e5	1.26	NO	0.915	34.24	34.25	NO	1.000	1.001	55.867	112	NO
5	5 1,2,3,7,8,9-HxCDD	1.79e5	3.41e5	1.25	NO	0.934	34.52	34.52	NO	1.000	1.000	56.327	113	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.39e5	2.91e5	1.00	NO	0.870	37.99	38.01	NO	1.000	1.000	54.739	109	NO
7	7 OCDD	2.22e5	4.57e5	0.92	NO	0.872	40.94	40.95	NO	1.000	1.000	111.63	112	NO
8	8 2,3,7,8-TCDF	7.01e4	8.66e5	0.75	NO	0.824	25.38	25.40	NO	1.000	1.001	9.8289	98.3	NO
9	9 1,2,3,7,8-PeCDF	3.48e5	6.09e5	1.63	NO	0.963	29.54	29.55	NO	1.000	1.000	59.353	119	NO
10	10 2,3,4,7,8-PeCDF	3.61e5	5.83e5	1.58	NO	1.07	30.60	30.60	NO	1.000	1.000	58.072	116	NO
11	11 1,2,3,4,7,8-HxCDF	2.20e5	4.63e5	1.21	NO	0.953	33.21	33.23	NO	1.000	1.001	49.831	99.7	NO
12	12 1,2,3,6,7,8-HxCDF	2.39e5	4.86e5	1.20	NO	1.01	33.35	33.35	NO	1.000	1.000	48.708	97.4	NO
13	13 2,3,4,6,7,8-HxCDF	2.20e5	4.50e5	1.24	NO	0.991	34.01	34.01	NO	1.000	1.000	49.278	98.6	NO
14	14 1,2,3,7,8,9-HxCDF	1.79e5	3.89e5	1.22	NO	0.951	35.01	35.02	NO	1.000	1.000	48.403	96.8	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.66e5	3.44e5	1.00	NO	0.999	36.58	36.59	NO	1.000	1.000	48.281	96.6	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.29e5	2.40e5	0.99	NO	1.12	38.62	38.63	NO	1.000	1.000	48.068	96.1	NO
17	17 OCDF	2.47e5	5.69e5	0.87	NO	0.868	41.24	41.24	NO	1.000	1.000	100.03	100	NO
18	18 13C-2,3,7,8-TCDD	4.70e5	4.14e5	0.82	NO	1.11	26.06	26.07	NO	1.030	1.030	102.28	102	NO
19	19 13C-1,2,3,7,8-PeCDD	3.06e5	4.14e5	0.65	NO	0.859	30.77	30.79	NO	1.216	1.217	86.054	86.1	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.07e5	4.88e5	1.36	NO	0.700	34.11	34.11	NO	1.014	1.014	89.973	90.0	NO
21	21 13C-1,2,3,6,7,8-HxCDD	3.55e5	4.88e5	1.29	NO	0.833	34.25	34.23	NO	1.018	1.017	87.404	87.4	NO
22	22 13C-1,2,3,7,8,9-HxCDD	3.41e5	4.88e5	1.29	NO	0.762	34.49	34.51	NO	1.025	1.026	91.766	91.8	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.91e5	4.88e5	1.08	NO	0.650	37.97	37.99	NO	1.129	1.129	91.978	92.0	NO
24	24 13C-OCDD	4.57e5	4.88e5	0.90	NO	0.539	40.94	40.94	NO	1.217	1.217	173.53	86.8	NO
25	25 13C-2,3,7,8-TCDF	8.66e5	8.56e5	0.80	NO	0.981	25.38	25.37	NO	1.003	1.003	103.08	103	NO
26	26 13C-1,2,3,7,8-PeCDF	6.09e5	8.56e5	1.65	NO	0.792	29.51	29.53	NO	1.166	1.167	89.855	89.9	NO
27	27 13C-2,3,4,7,8-PeCDF	5.83e5	8.56e5	1.65	NO	0.778	30.56	30.60	NO	1.208	1.210	87.548	87.5	NO
28	28 13C-1,2,3,4,7,8-HxCDF	4.63e5	4.88e5	0.50	NO	0.954	33.20	33.21	NO	0.987	0.987	99.608	99.6	NO
29	29 13C-1,2,3,6,7,8-HxCDF	4.86e5	4.88e5	0.51	NO	1.01	33.33	33.35	NO	0.991	0.991	99.074	99.1	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.50e5	4.88e5	0.51	NO	0.921	34.00	34.01	NO	1.011	1.011	100.11	100	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.89e5	4.88e5	0.50	NO	0.803	35.00	35.01	NO	1.040	1.041	99.350	99.3	NO

Dataset: U:\VG12.PRO\Results\201125R1\201125R1-2.qld

Last Altered: Wednesday, November 25, 2020 10:54:11 Pacific Standard Time

Printed: Thursday, November 26, 2020 07:14:42 Pacific Standard Time

Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.44e5	4.88e5	0.43	NO	0.735	36.57	36.58	NO	1.087	1.087	95.880	95.9	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.40e5	4.88e5	0.41	NO	0.568	38.60	38.62	NO	1.147	1.148	86.576	86.6	NO
34	34 13C-OCDF	5.69e5	4.88e5	0.89	NO	0.629	41.22	41.23	NO	1.225	1.225	185.47	92.7	NO
35	35 37Cl-2,3,7,8-TCDD	5.45e4	4.14e5			1.09	26.06	26.08	NO	1.030	1.031	12.094	121	NO
36	36 13C-1,2,3,4-TCDD	4.14e5	4.14e5	0.83	NO	1.00	25.37	25.30	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	8.56e5	8.56e5	0.82	NO	1.00	23.87	23.79	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	4.88e5	4.88e5	0.50	NO	1.00	33.71	33.64	NO	1.000	1.000	100.00	100	YES ^{ok}

Dataset: Untitled

Last Altered: Thursday, November 26, 2020 07:23:12 Pacific Standard Time

Printed: Thursday, November 26, 2020 07:23:15 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

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

	Name	ID	Acq.Date	Acq.Time
1	201125R1_1 ^(A)	ST201125R1_1 1613 CS3 20F1105	25-Nov-20	09:12:37
2	201125R1_2 ^(B)	ST201125R1_2 1613 CS3 20F1105	25-Nov-20	10:06:48
3	201125R1_3	TCDF CPSM	25-Nov-20	10:53:09
4	201125R1_4	BOK0172-BS1 OPR 10	25-Nov-20	11:38:02
5	201125R1_5	SOLVENT BLANK	25-Nov-20	12:23:39
6	201125R1_6	BOK0172-BLK1 Method Blank 10	25-Nov-20	13:08:34
7	201125R1_7	2002359-01 NCPDI-015SC-01-02-201028 6.1	25-Nov-20	13:54:02
8	201125R1_8	2002359-02 NCPDI-015SC-02-03-201028 6.65	25-Nov-20	14:38:58
9	201125R1_9	2002359-03 NCPDI-015SC-03-04-201028 6.12	25-Nov-20	15:23:53
10	201125R1_10	2002359-04 NCPDI-015SC-04-05-201028 6.04	25-Nov-20	16:08:46
11	201125R1_11	BOK0129-DUP1 Duplicate 6.19	25-Nov-20	16:53:39
12	201125R1_12	2002359-05 NCPDI-015SC-05-06-201028 6.38	25-Nov-20	17:38:28
13	201125R1_13	2002359-06 NCPDI-015SC-06-07-201028 8.09	25-Nov-20	18:23:21
14	201125R1_14	2002359-07 NCPDI-015SC-07-08-201028 7.57	25-Nov-20	19:08:13
15	201125R1_15	2002359-08 NCPDI-015SC-08-09-201028 7.02	25-Nov-20	19:53:03
16	201125R1_16	2002359-09 NCPDI-1015SC-07-08-201028 7.36	25-Nov-20	20:37:54

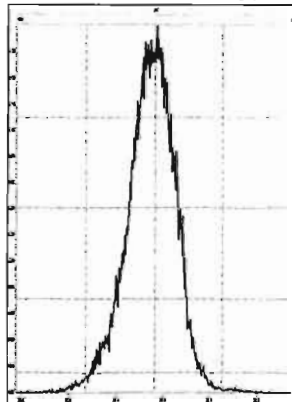
(A) USED TO ADJUST WINDOWS

(B) USED AS CAL FOR RUN

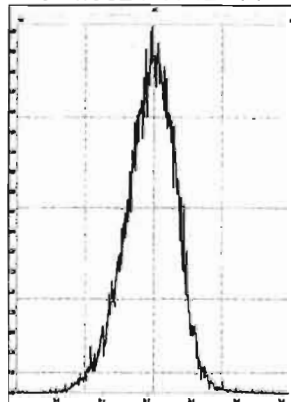
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 10:03:58 Pacific Standard Time

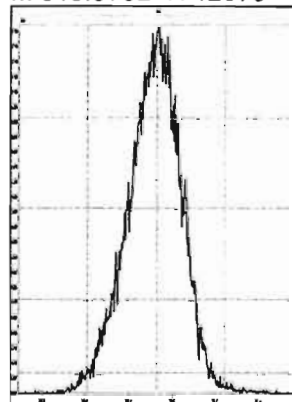
M 292.9824 R 11797



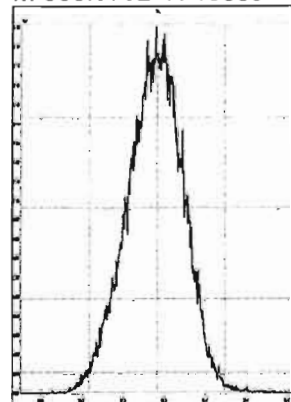
M 304.9824 R 12014



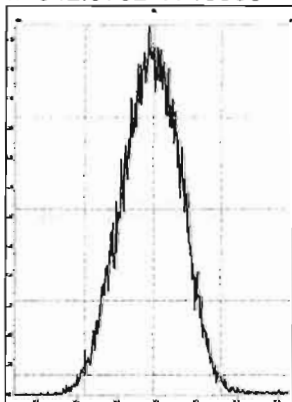
M 318.9792 R 12075



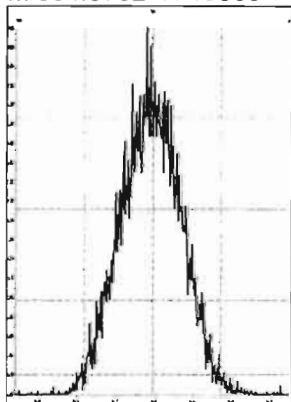
M 330.9792 R 10639



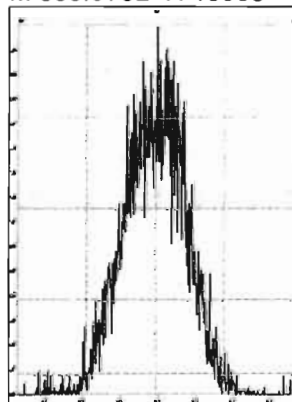
M 342.9792 R 10038



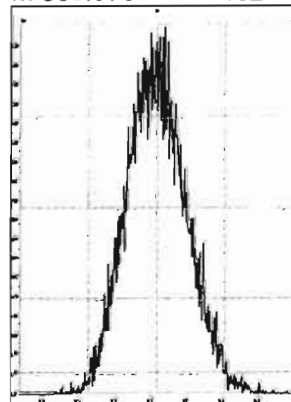
M 354.9792 R 10865



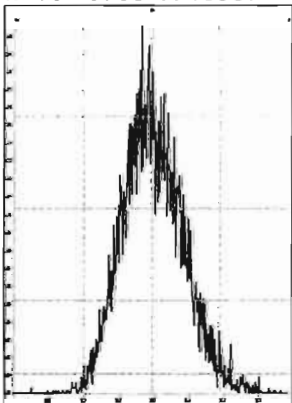
M 366.9792 R 10506



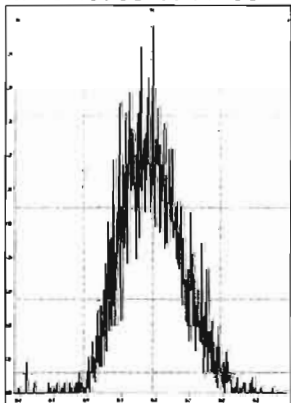
M 380.9760 R 10162



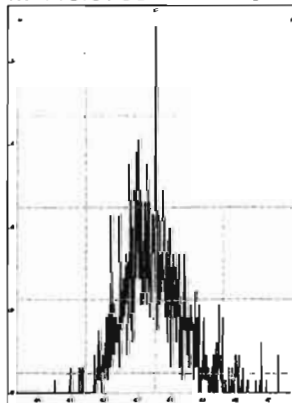
M 392.9760 R 10967



M 404.9760 R 11363



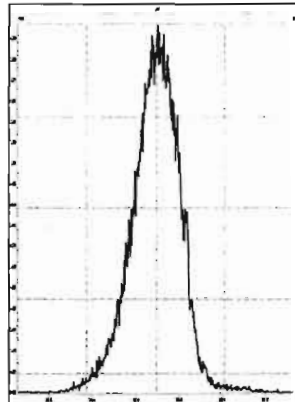
M 416.9760 R 12256



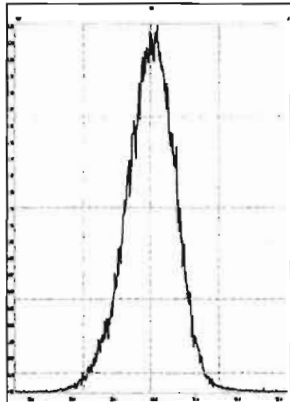
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 10:04:39 Pacific Standard Time

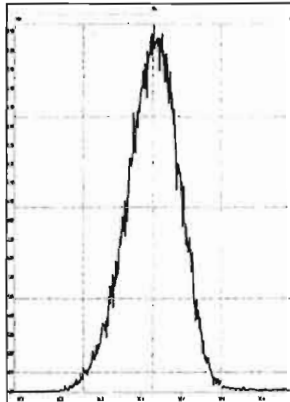
M 318.9792 R 12626



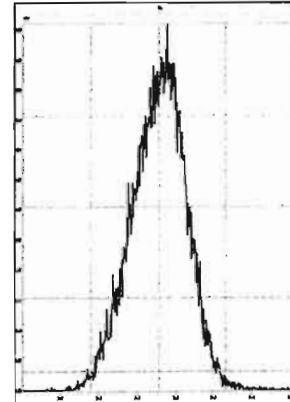
M 330.9792 R 11571



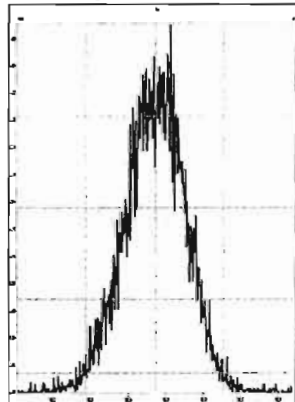
M 342.9792 R 11160



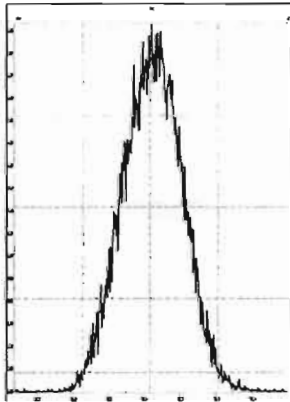
M 354.9792 R 10824



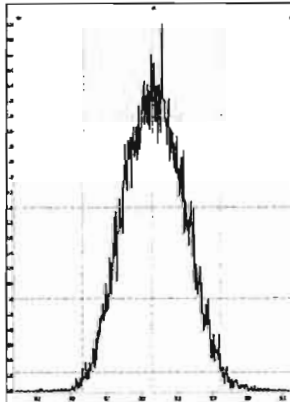
M 366.9792 R 10080



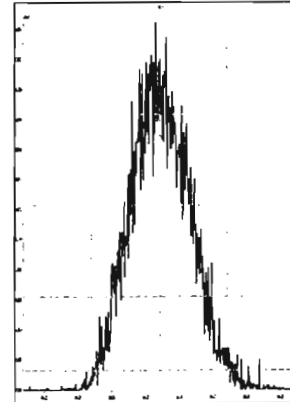
M 380.9760 R 10078



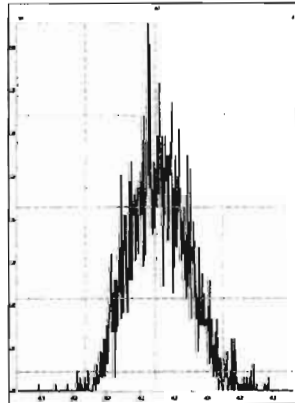
M 392.9760 R 10416



M 404.9760 R 10327



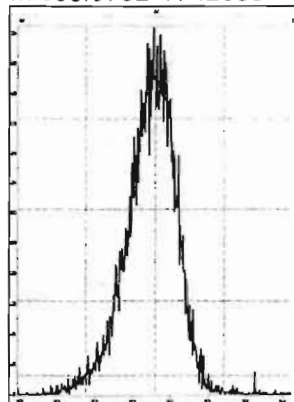
M 416.9760 R 11573



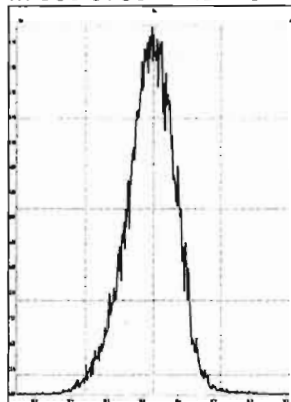
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 10:05:02 Pacific Standard Time

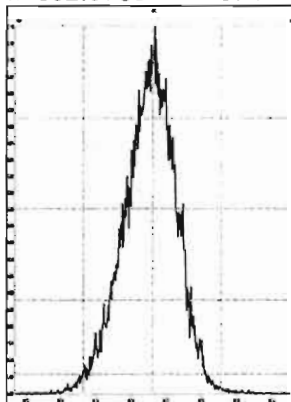
M 366.9792 R 12690



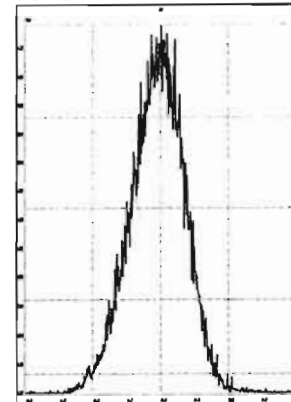
M 380.9760 R 12075



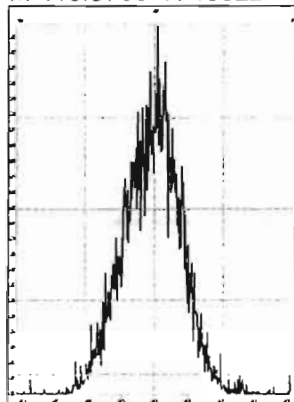
M 392.9760 R 11574



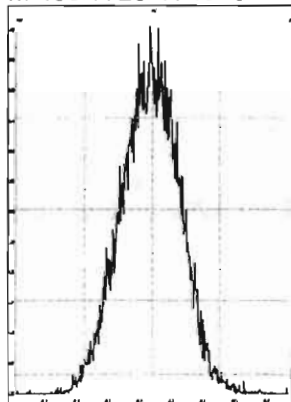
M 404.9760 R 11263



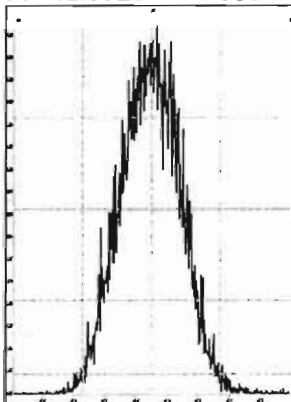
M 416.9760 R 10822



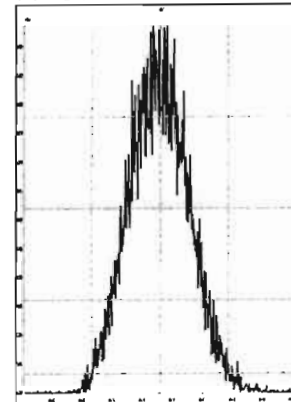
M 430.9728 R 10731



M 442.9728 R 10330



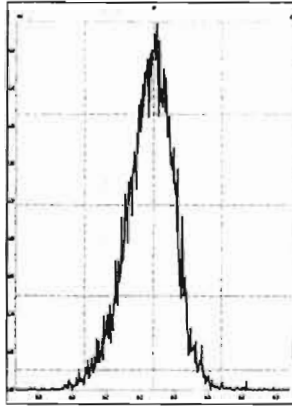
M 454.9728 R 10201



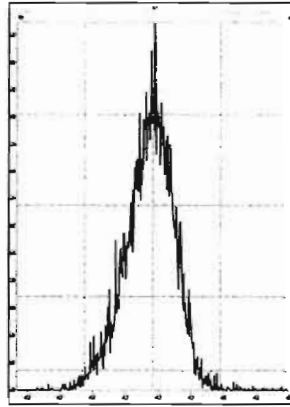
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 10:05:26 Pacific Standard Time

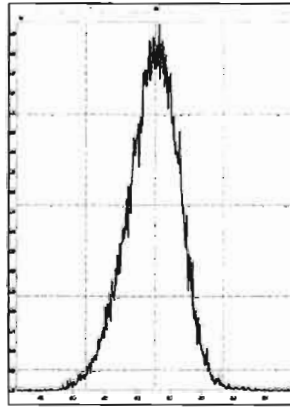
M 404.9760 R 12134



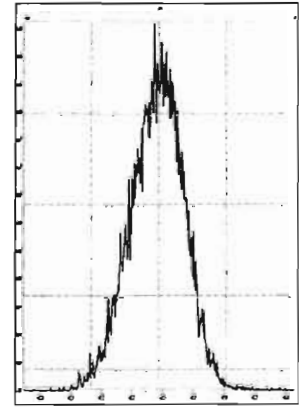
M 416.9760 R 12377



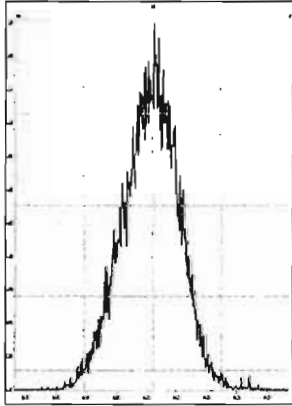
M 430.9728 R 11311



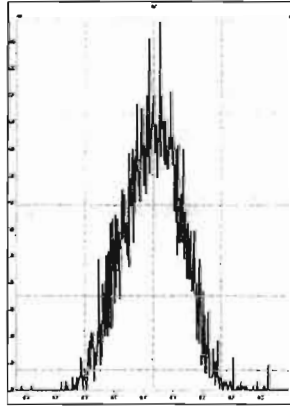
M 442.9728 R 11161



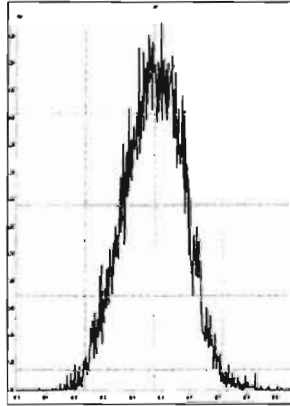
M 454.9728 R 10372



M 466.9728 R 11905



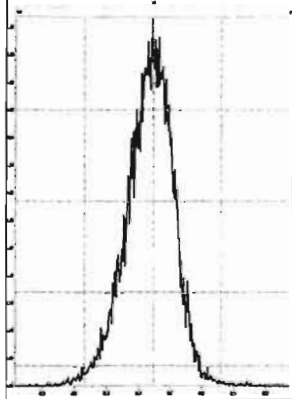
M 480.9696 R 10506



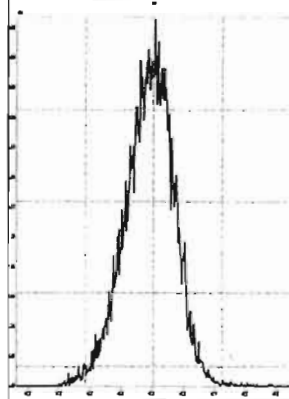
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 10:05:48 Pacific Standard Time

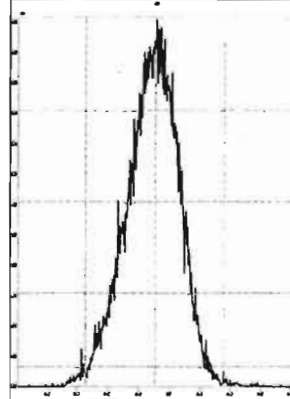
M 430.9728 R 12438



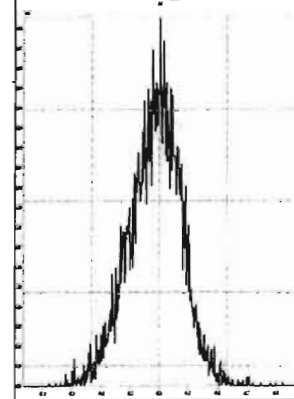
M 442.9728 R 11850



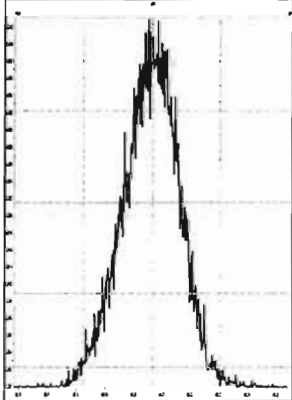
M 454.9728 R 11792



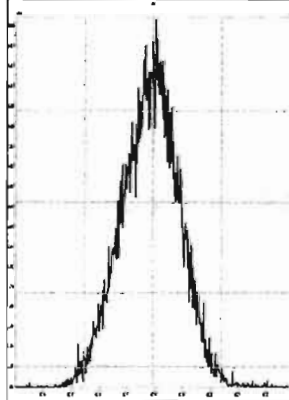
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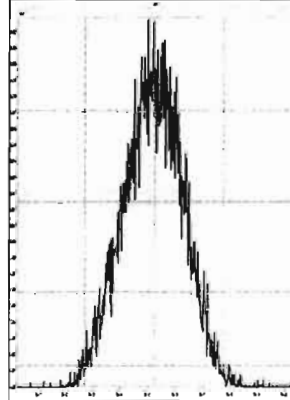
M 480.9696 R 10204



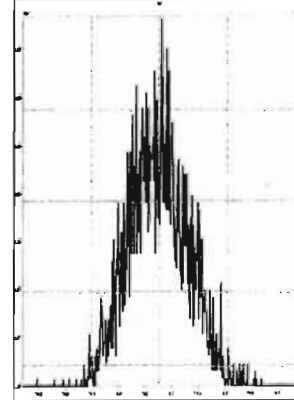
M 492.9696 R 11011



M 504.9696 R 10460



M 516.9697 R 10824



Dataset: Untitled

Last Altered: Wednesday, November 25, 2020 12:51:42 Pacific Standard Time

Printed: Wednesday, November 25, 2020 12:51:53 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 10 Nov 2020 10:04:22

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	Name	RT
1	1,3,6,8-TCDD (First)	22.25
2	1,2,8,9-TCDD (Last)	26.98
3	1,2,4,7,9-PeCDD (First)	28.54
4	1,2,3,8,9-PeCDD (Last)	31.17
5	1,2,4,6,7,9-HxCDD (First)	32.49
6	1,2,3,7,8,9-HxCDD (Last)	34.52
7	1,2,3,4,6,7,9-HpCDD (First)	36.97
8	1,2,3,4,6,7,8-HpCDD (Last)	38.01
9	1,3,6,8-TCDF (First)	20.05
10	1,2,8,9-TCDF (Last)	27.30
11	1,3,4,6,8-PeCDF (First)	26.87
12	1,2,3,8,9-PeCDF (Last)	31.53
13	1,2,3,4,6,8-HxCDF (First)	31.96
14	1,2,3,7,8,9-HxCDF (Last)	35.02
15	1,2,3,4,6,7,8-HpCDF (First)	36.59
16	1,2,3,4,7,8,9-HpCDF (Last)	38.63

Dataset: Untitled

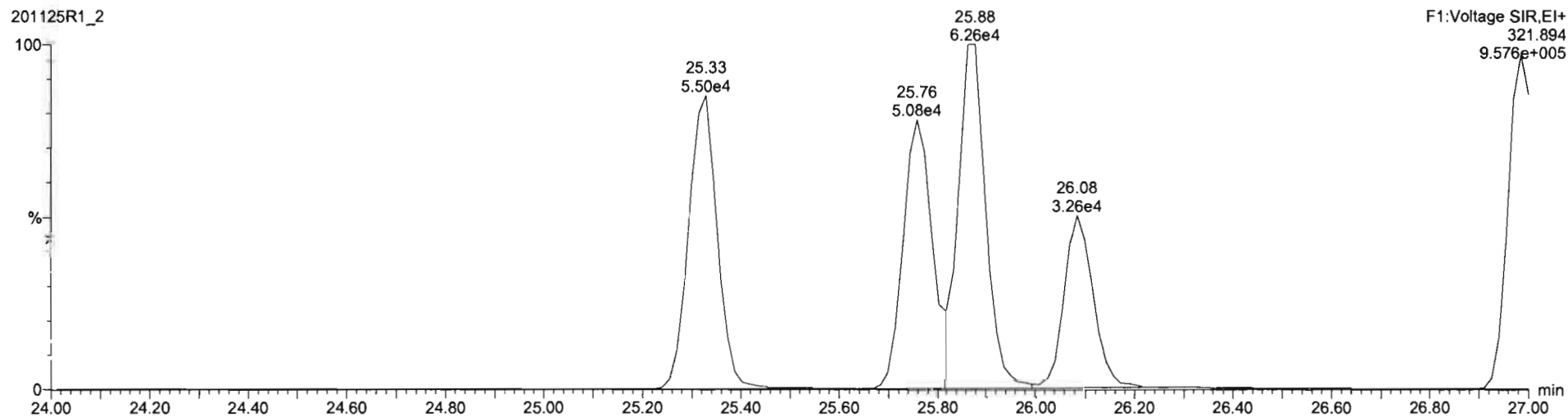
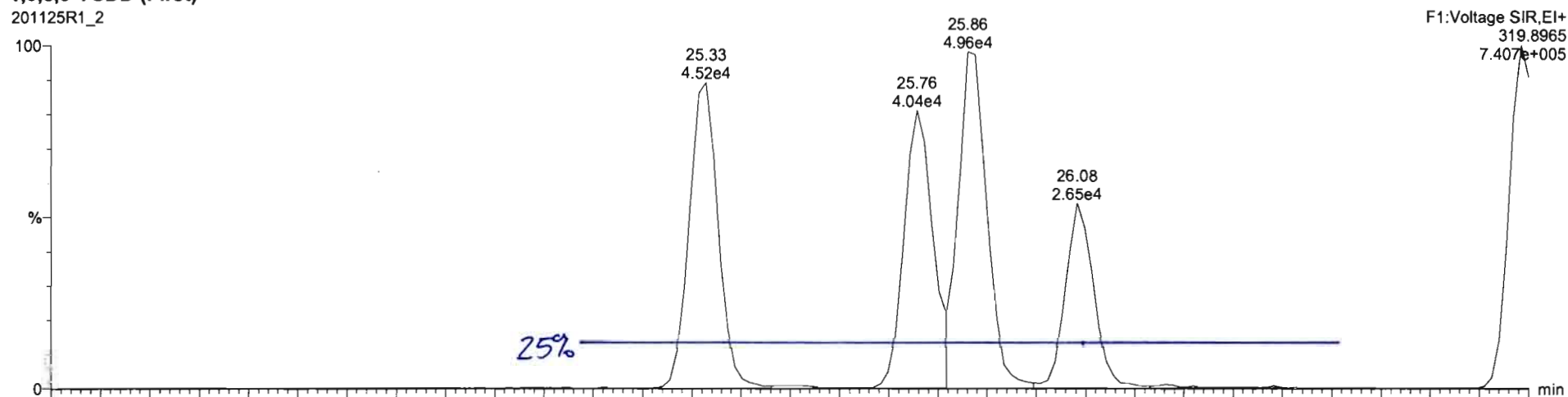
Last Altered: Wednesday, November 25, 2020 12:51:42 Pacific Standard Time
Printed: Wednesday, November 25, 2020 12:51:53 Pacific Standard Time

GPB 11/25/2020
HN 12/01/2020

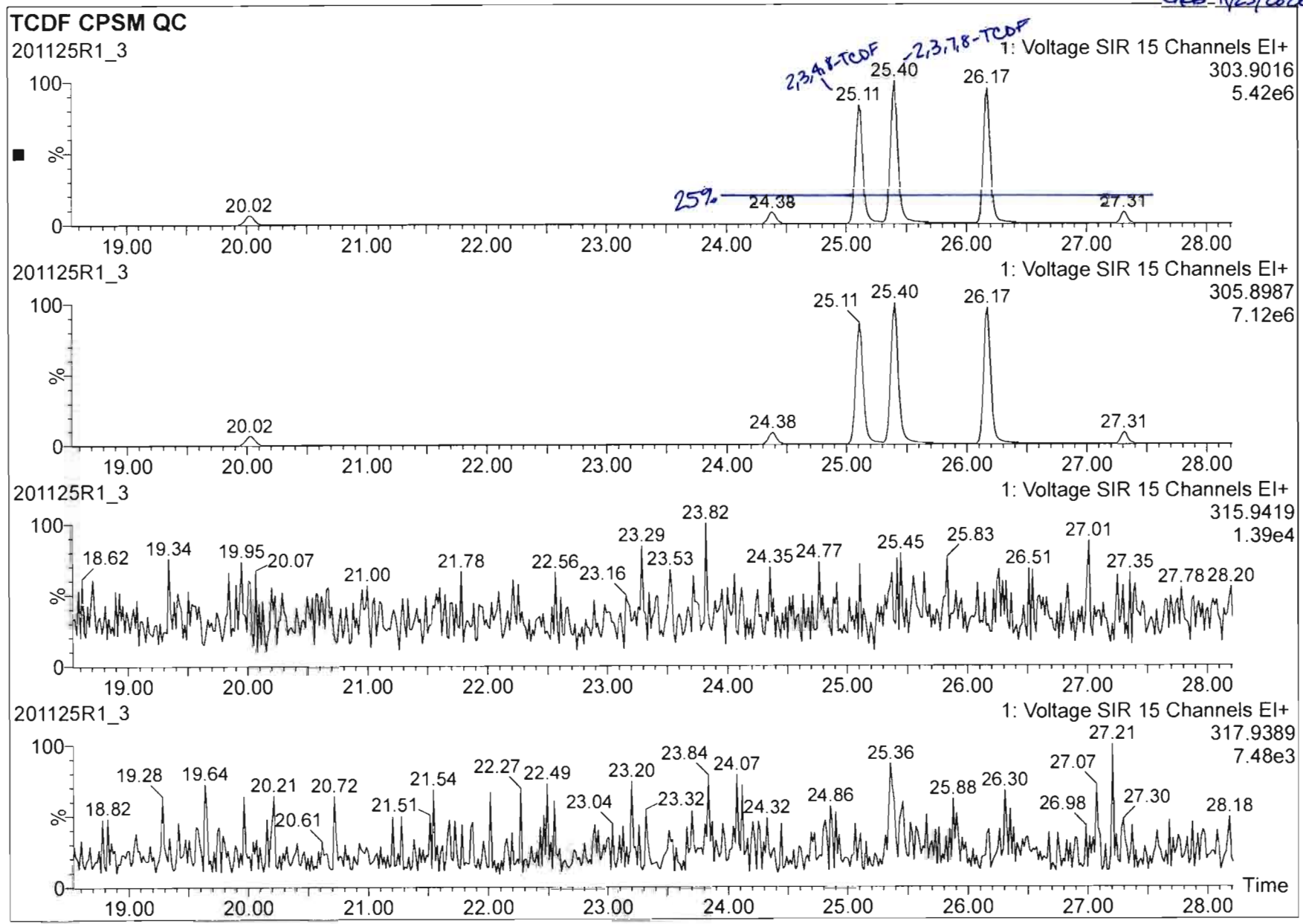
Method: U:\VG12.PRO\MethDB\CPSM.mdb 10 Nov 2020 10:04:22
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

1,3,6,8-TCDD (First)
201125R1_2



MIN 12/01/2020
GRB 11/25/2020



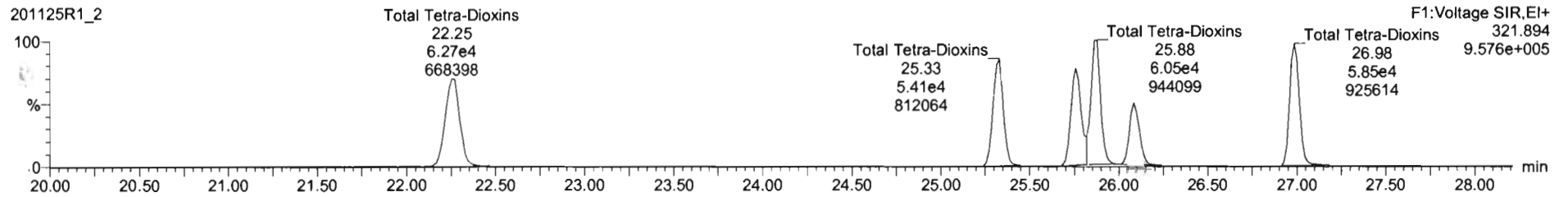
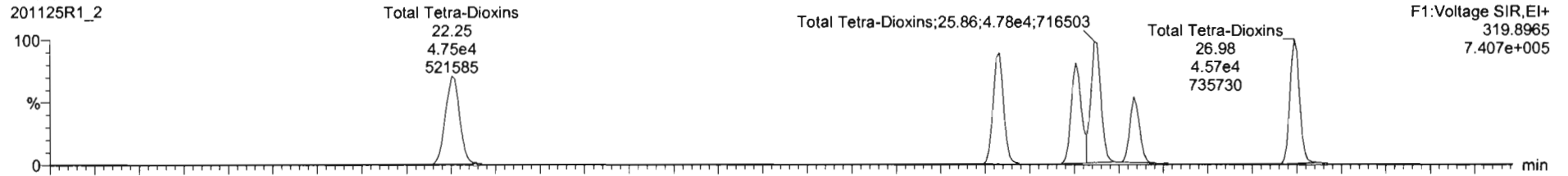
Dataset: Untitled

Last Altered: Thursday, November 26, 2020 07:15:51 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:16:01 Pacific Standard Time

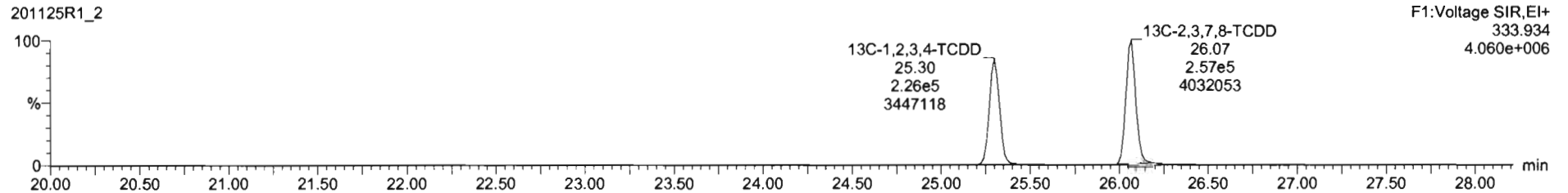
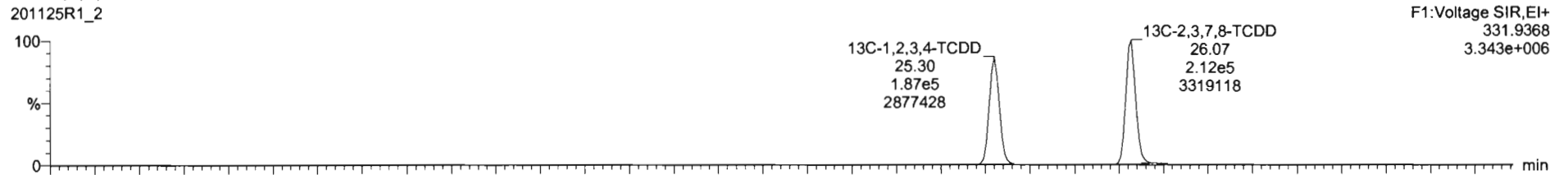
Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

2,3,7,8-TCDD



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



Dataset: Untitled

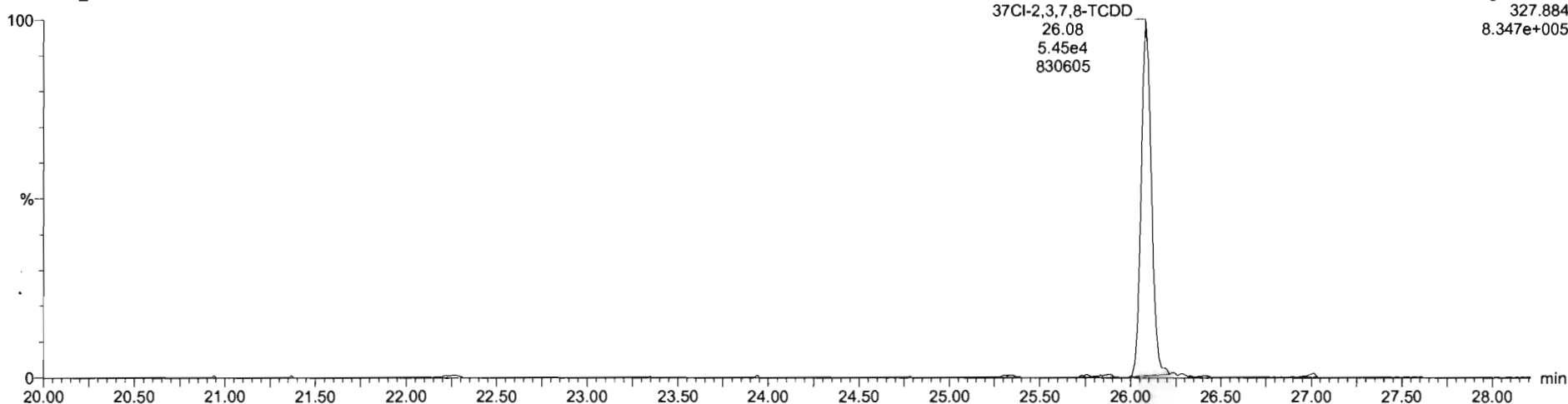
Last Altered: Thursday, November 26, 2020 07:15:51 Pacific Standard Time

Printed: Thursday, November 26, 2020 07:16:01 Pacific Standard Time

Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

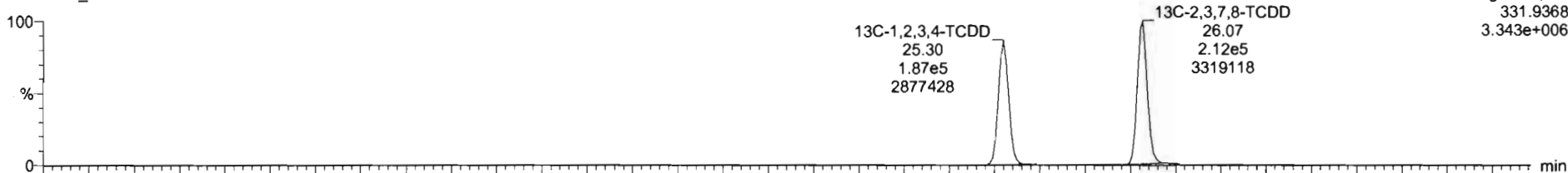
37Cl-2,3,7,8-TCDD

201125R1_2

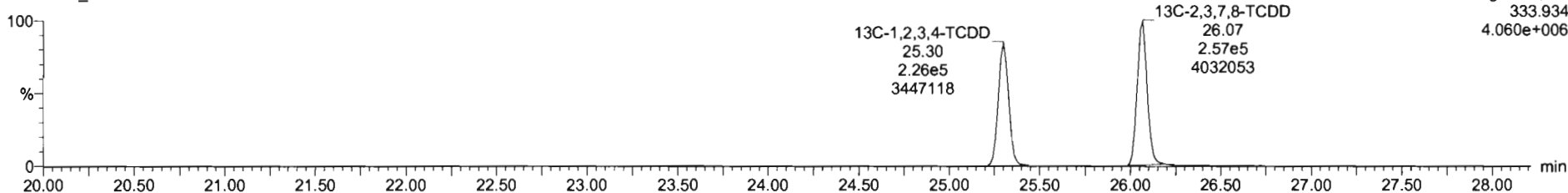


13C-1,2,3,4-TCDD

201125R1_2



201125R1_2

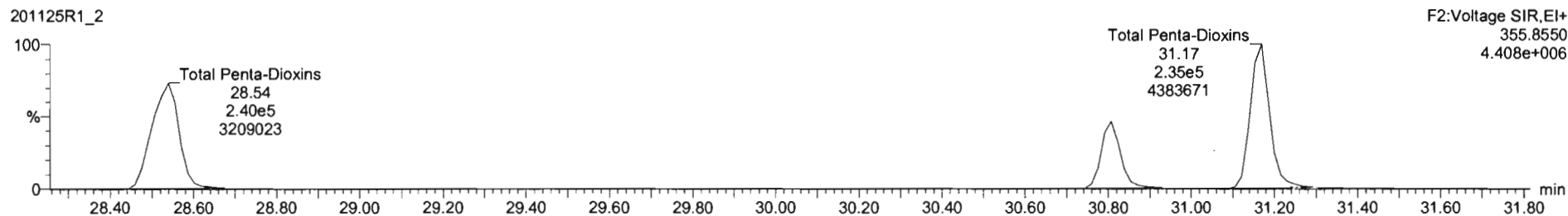
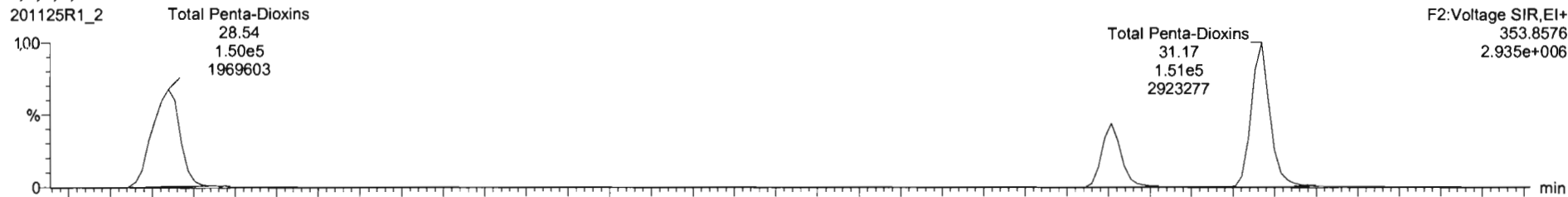


Dataset: Untitled

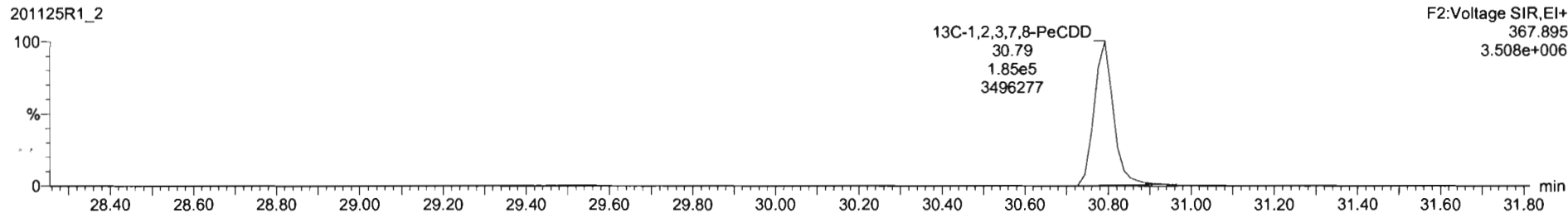
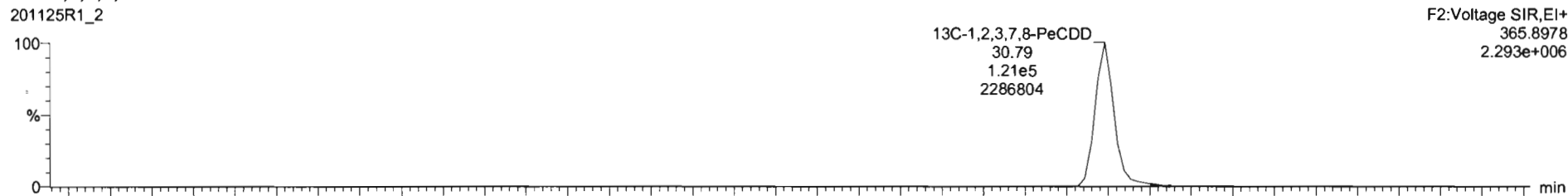
Last Altered: Thursday, November 26, 2020 07:15:51 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:16:01 Pacific Standard Time

Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

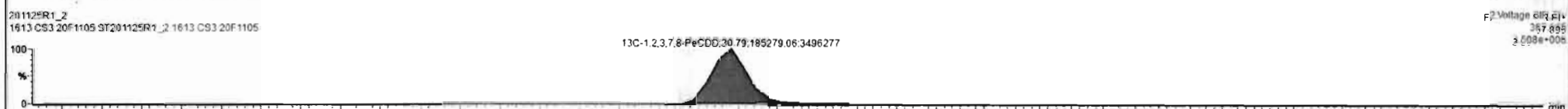
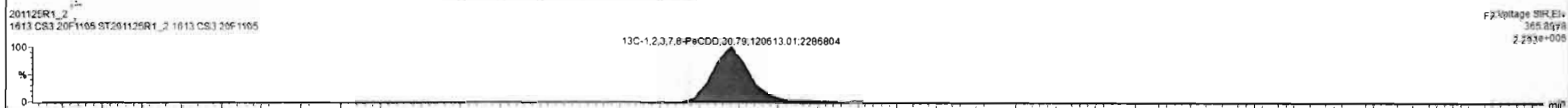
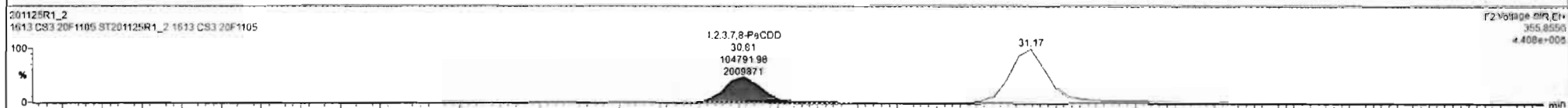
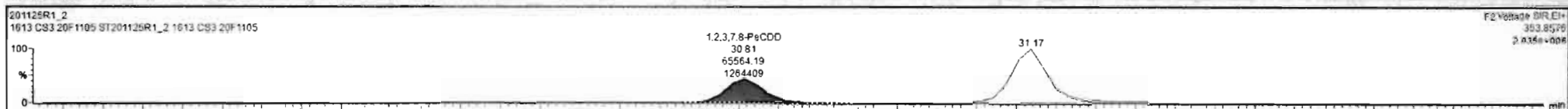
1,2,3,7,8-PeCDD



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



#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	5.56e4	4.70e5	0.77	0.79	NO	0.9501	28.10	28.08	NO	1.001	1.001	12.5	125	NO
2	1,2,3,7,8-PeCDD	1.70e5	3.06e5	0.63	0.63	NO	0.8855	30.80	30.81	NO	1.000	1.000	62.9	126	NO
3	1,2,3,4,7,8-HxCDD	1.81e5	3.07e5	1.24	1.25	NO	1.0176	34.12	34.13	NO	1.000	1.001	58.0	116	NO
4	1,2,3,6,7,8-HxCDD	1.81e5	3.55e5	1.24	1.26	NO	0.9145	34.24	34.25	NO	1.000	1.001	55.9	112	NO
5	1,2,3,7,8,9-HxCDD	1.79e5	3.41e5	1.24	1.25	NO	0.9345	34.52	34.52	NO	1.000	1.000	56.3	113	NO
6	1,2,3,4,6,7,8-HpCDD	1.39e5	2.91e5	1.04	1.00	NO	0.8697	37.99	38.01	NO	1.000	1.000	54.7	109	NO
7	OCDD	2.22e5	4.57e5	0.89	0.92	NO	0.8717	40.94	40.95	NO	1.000	1.000	112	112	NO
8	2,3,7,8-TCDF	7.01e4	8.66e5	0.77	0.75	NO	0.8243	25.38	25.40	NO	1.000	1.001	9.82	98.3	NO
9	1,2,3,7,8-PeCDF	3.48e5	6.09e5	1.55	1.63	NO	0.9626	29.54	29.55	NO	1.000	1.000	59.4	119	NO
10	2,3,4,7,8-PeCDF	3.81e5	5.83e5	1.55	1.58	NO	1.0684	30.60	30.60	NO	1.000	1.000	58.1	116	NO
11	1,2,3,4,7,8-HxCDF	2.20e5	4.63e5	1.24	1.21	NO	0.9535	33.21	33.23	NO	1.000	1.001	49.8	99.7	NO
12	1,2,3,6,7,8-HxCDF	2.39e5	4.86e5	1.24	1.20	NO	1.0080	33.35	33.35	NO	1.000	1.000	48.7	97.4	NO
13	2,3,4,6,7,8-HxCDF	2.20e5	4.50e5	1.24	1.24	NO	0.9907	34.01	34.01	NO	1.000	1.000	49.3	98.6	NO
14	1,2,3,7,8,9-HxCDF	1.79e5	3.89e5	1.24	1.22	NO	0.9505	35.01	35.02	NO	1.000	1.000	48.4	96.8	NO
15	1,2,3,4,6,7,8-HpCDF	1.66e5	3.44e5	1.04	1.00	NO	0.9998	35.58	35.59	NO	1.000	1.000	48.3	96.6	NO
16	1,2,3,4,7,8,9-HpCDF	1.29e5	2.40e5	1.04	0.99	NO	1.1238	38.82	38.83	NO	1.000	1.000	48.1	96.1	NO
17	OCDF	2.47e5	5.69e5	0.89	0.87	NO	0.8682	41.24	41.24	NO	1.000	1.000	100	100	NO
18	13C-2,3,7,8-TCDD	4.70e5	4.14e5	0.77	0.82	NO	1.1089	28.05	28.07	NO	1.030	1.030	102	102	NO
19	13C-1,2,3,7,8-PeCDD	3.06e5	4.14e5	0.63	0.85	NO	0.8585	30.77	30.79	NO	1.216	1.217	88.1	88.1	NO



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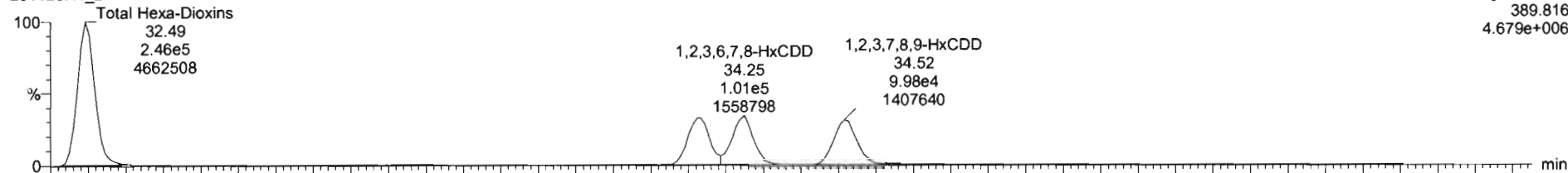
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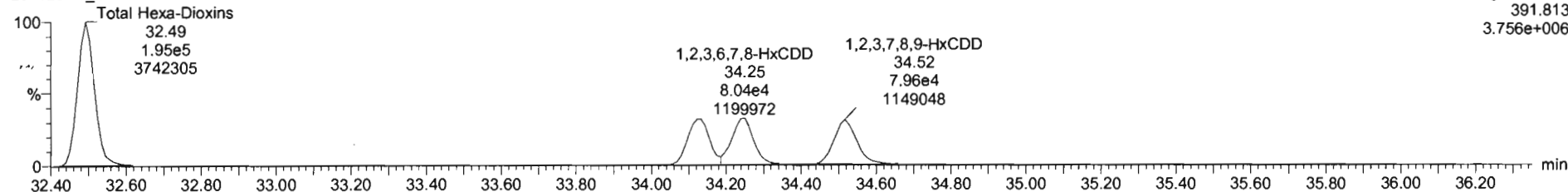
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1,2,3,4,7,8-HxCDD

201125R1_2

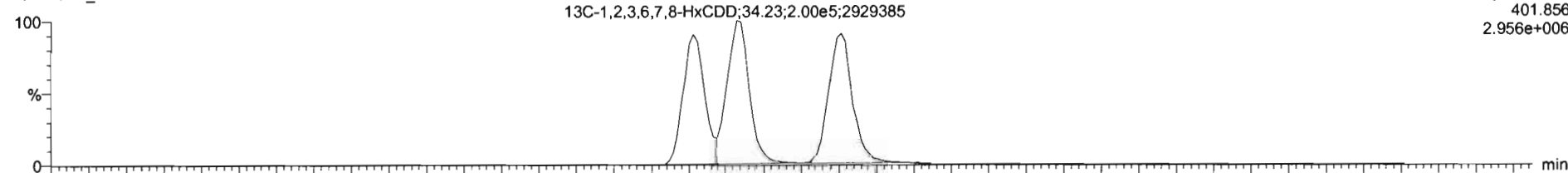


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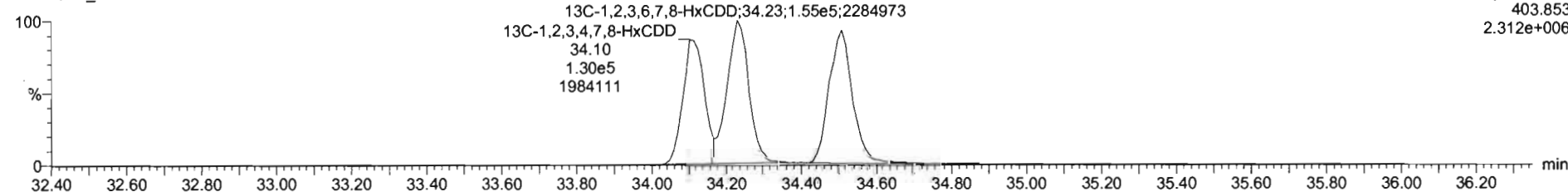


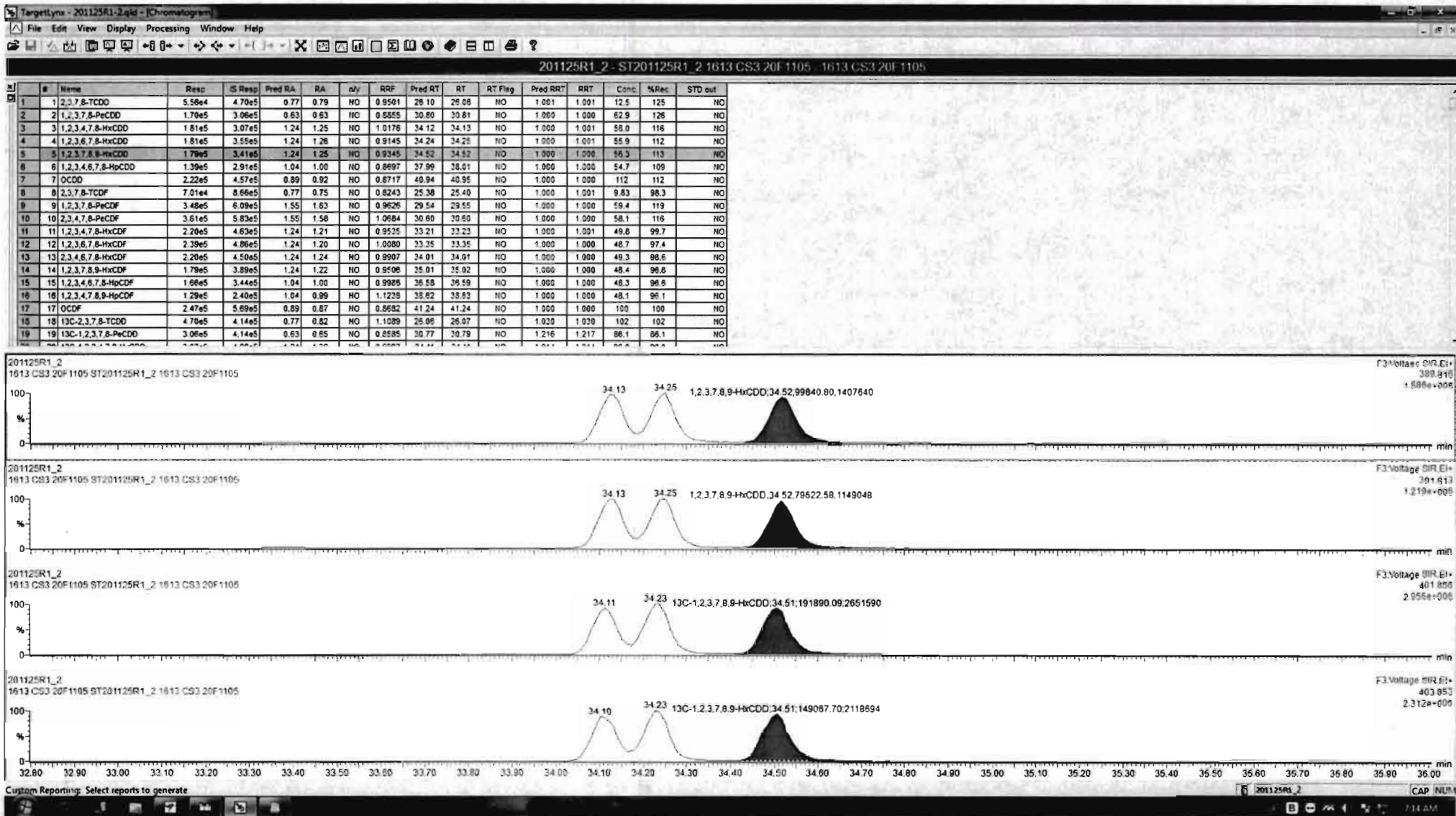
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201125R1_2



201125R1_2





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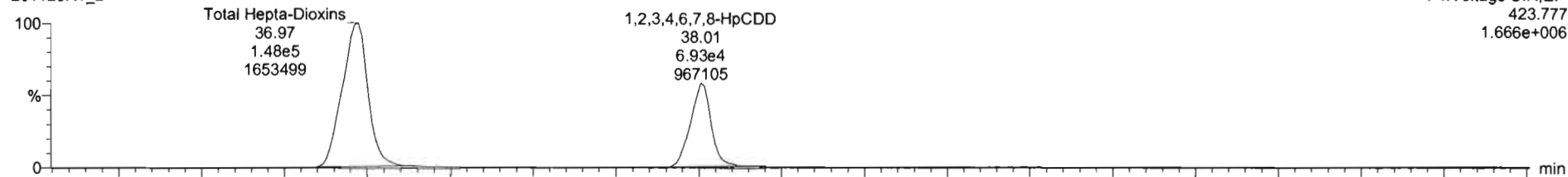
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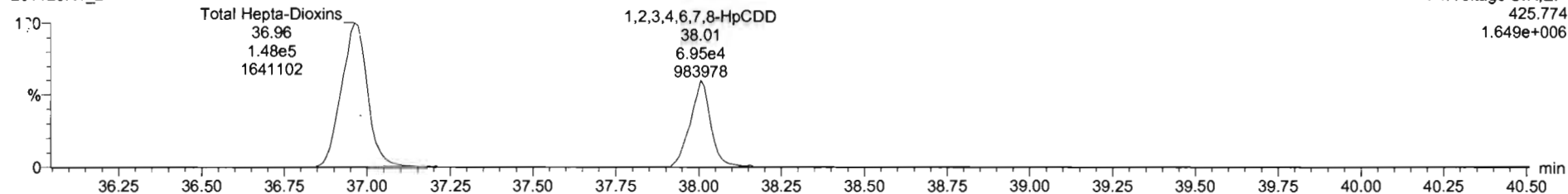
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1,2,3,4,6,7,8-HpCDD

201125R1_2

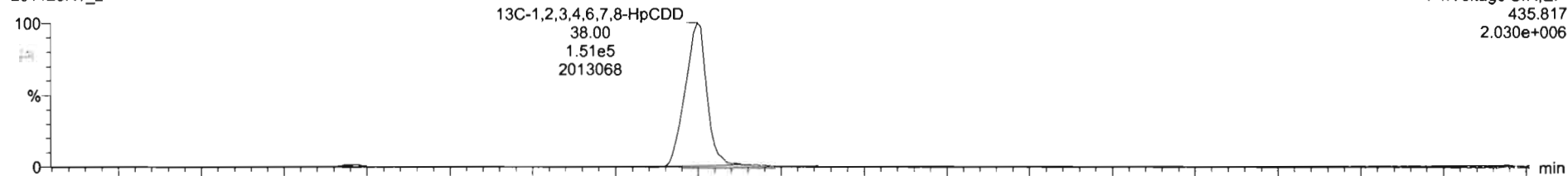


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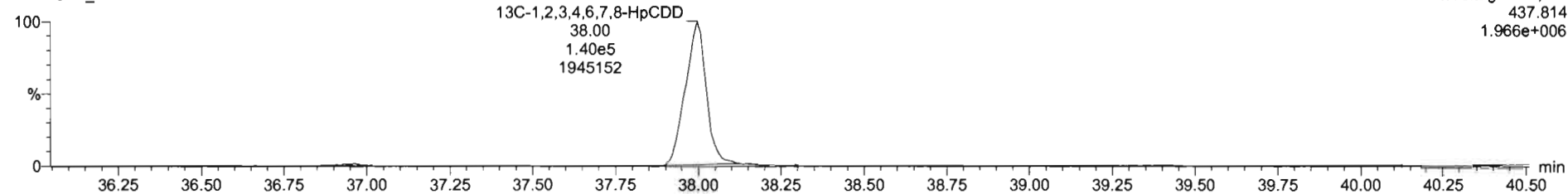


13C-1,2,3,4,6,7,8-HpCDD

201125R1_2



201125R1_2



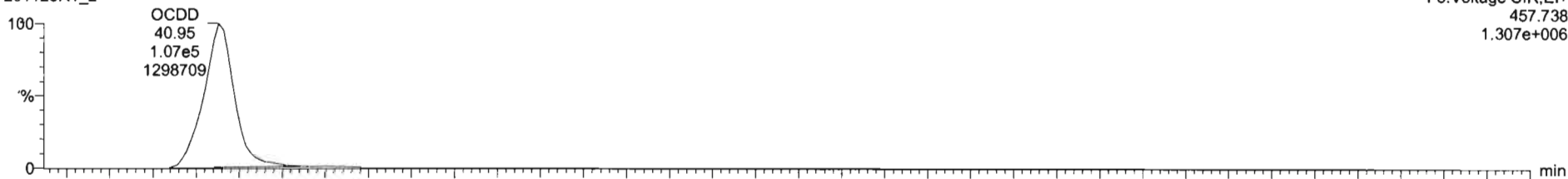
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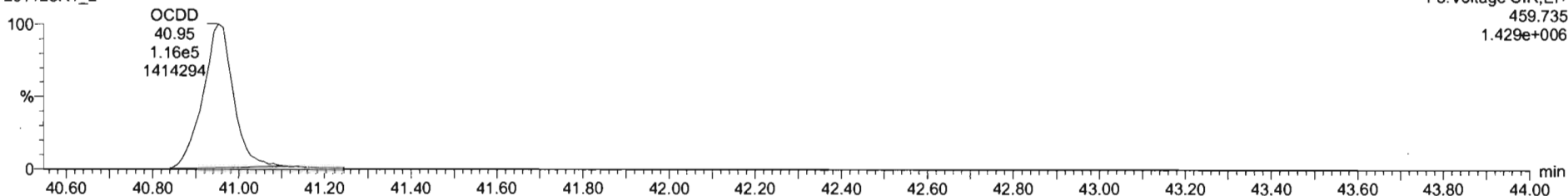
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OCDD

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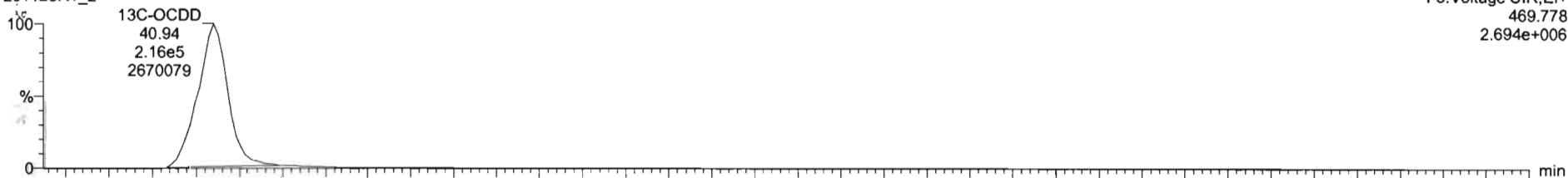


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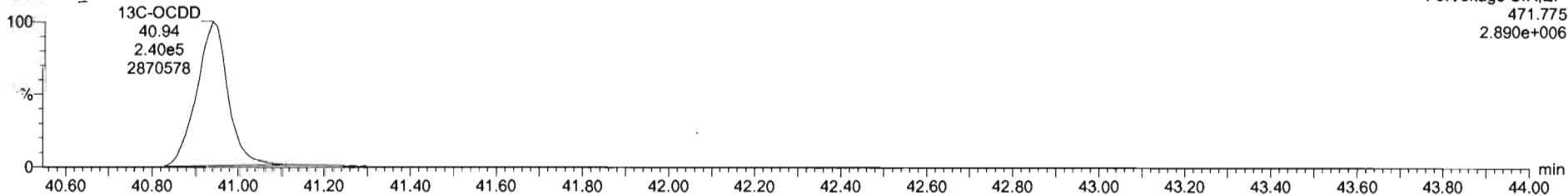


13C-OCDD

201125R1_2



201125R1_2



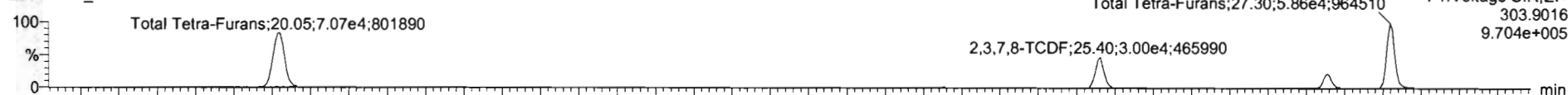
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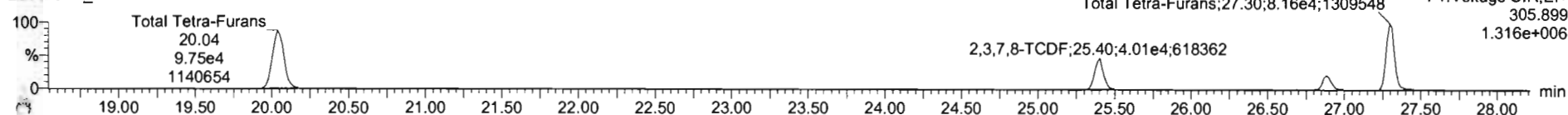
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2,3,7,8-TCDF

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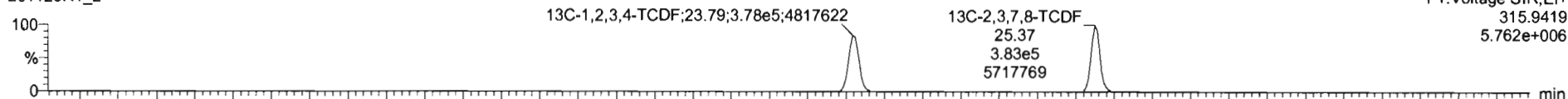


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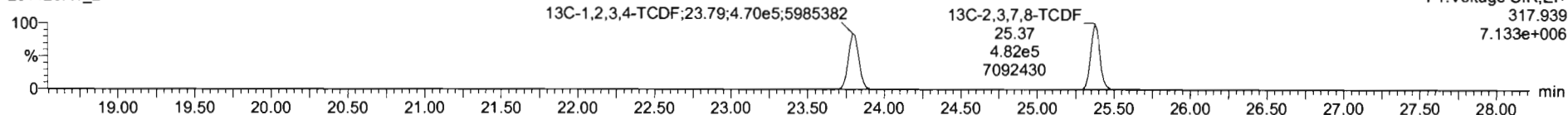


13C-2,3,7,8-TCDF

201125R1_2

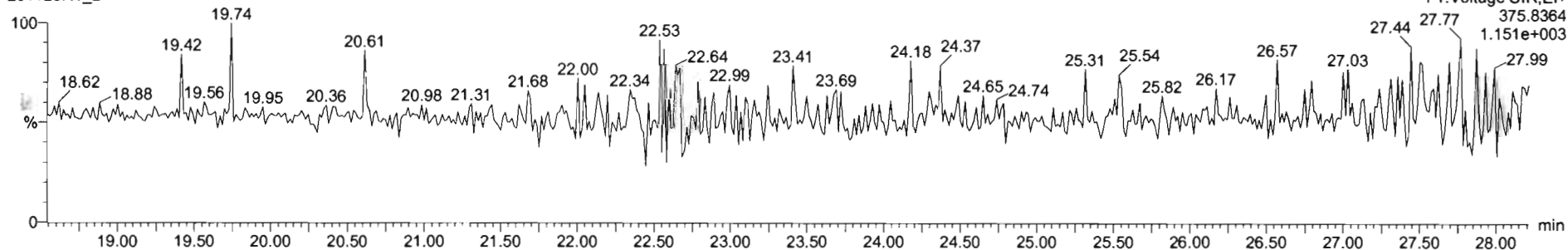


201125R1_2



DPE1

201125R1_2



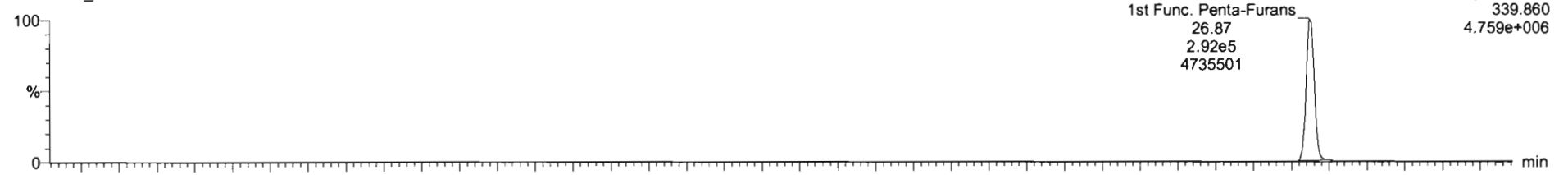
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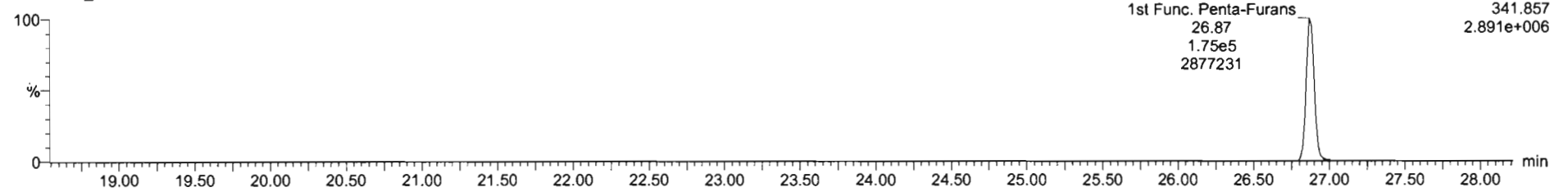
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201125R1_2

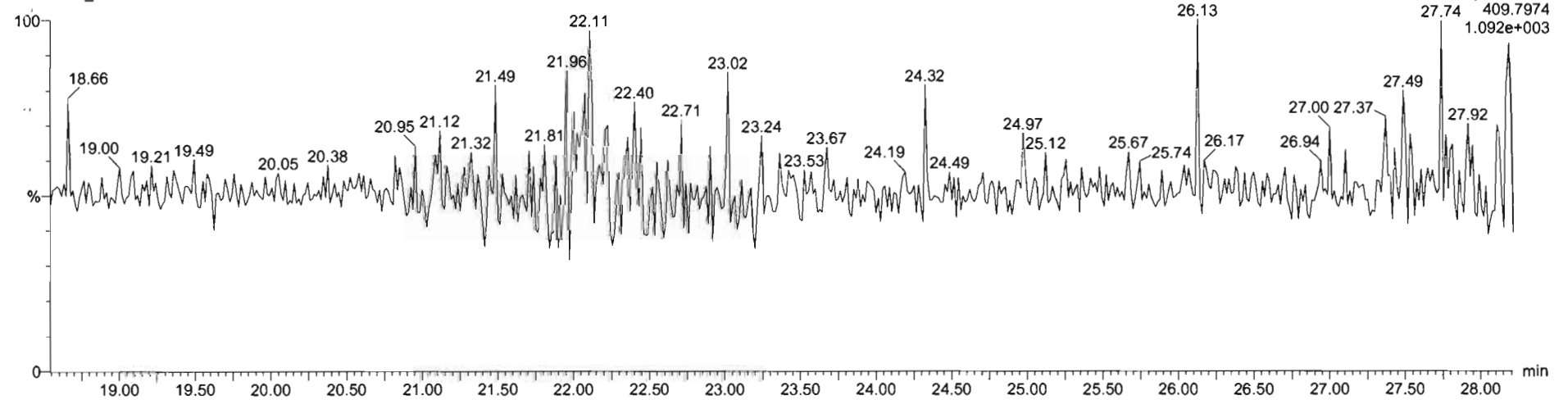


201125R1_2



DPE6

201125R1_2



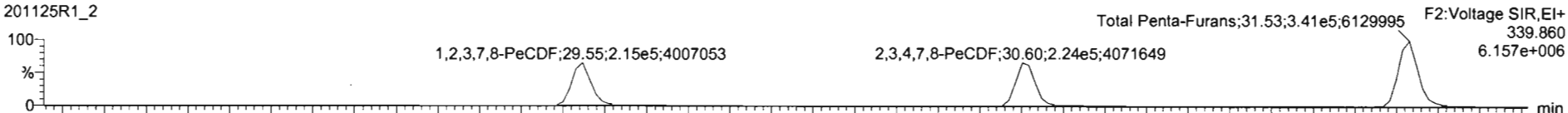
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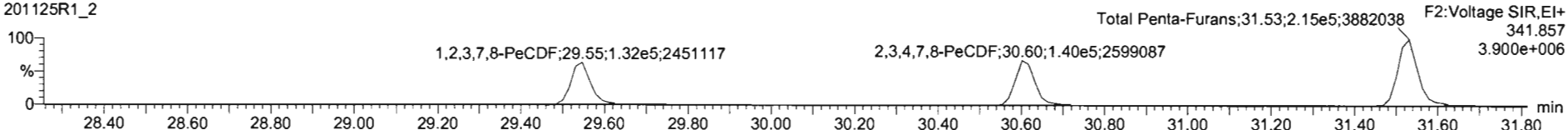
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1,2,3,7,8-PeCDF

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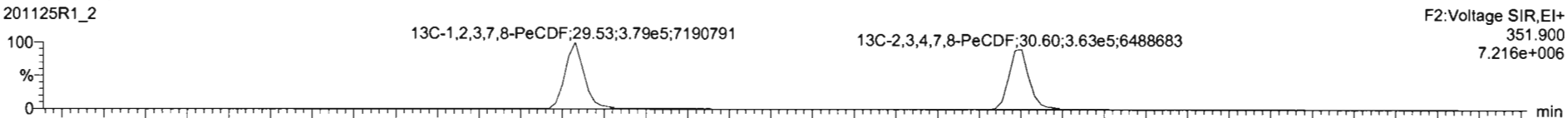


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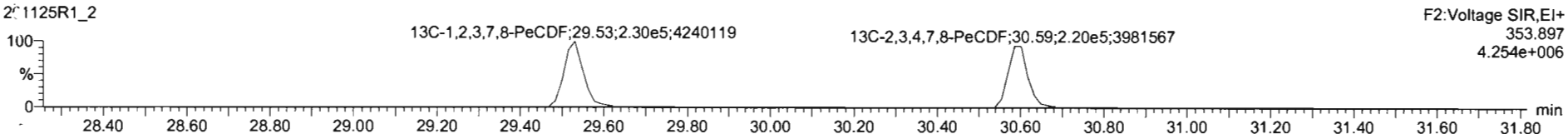


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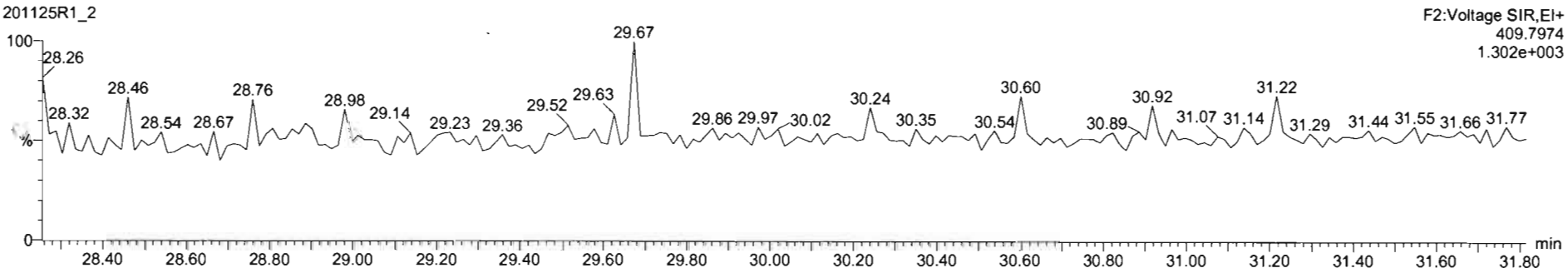


201125R1_2



DPE2

201125R1_2

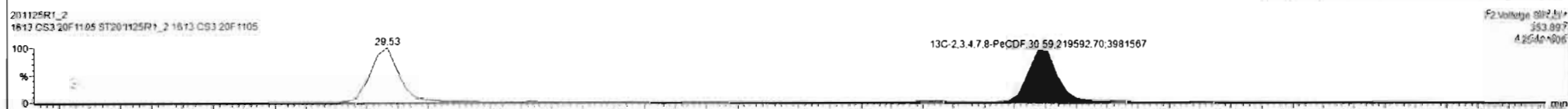
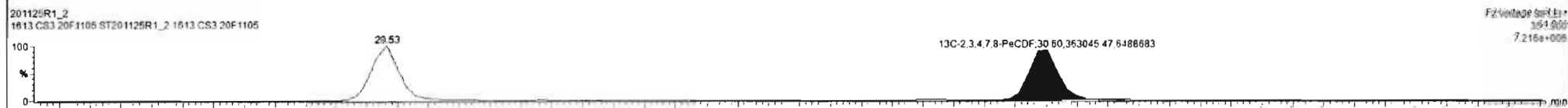


TargetLynx - 201125R1_2.qld - Chromatogram

File Edit View Display Processing Window Help

201125R1_2 - ST201125R1_2 1613 CS3 20F1105 1613 CS3 20F1105

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	5.56e4	4.70e5	0.77	0.79	NO	0.9501	26.10	26.08	NO	1.001	1.001	12.5	125	NO
2	1,2,3,7,8-PeCDD	1.70e5	3.06e5	0.63	0.63	NO	0.6855	30.80	30.81	NO	1.000	1.000	62.9	126	NO
3	1,2,3,4,7,8-HxCDD	1.81e5	3.07e5	1.24	1.25	NO	1.0176	34.12	34.13	NO	1.000	1.001	58.0	116	NO
4	1,2,3,6,7,8-HxCDD	1.81e5	3.55e5	1.24	1.26	NO	0.9145	34.24	34.25	NO	1.000	1.001	55.9	112	NO
5	1,2,3,7,8,9-HxCDD	1.79e5	3.41e5	1.24	1.25	NO	0.9345	34.52	34.52	NO	1.000	1.000	56.3	113	NO
6	1,2,3,4,6,7,8-HpCDD	1.39e5	2.91e5	1.04	1.00	NO	0.8697	37.99	38.01	NO	1.000	1.000	54.7	109	NO
7	OCDD	2.22e5	4.57e5	0.89	0.92	NO	0.8717	40.94	40.95	NO	1.000	1.000	112	112	NO
8	2,3,7,8-TCDF	7.01e4	8.66e5	0.77	0.75	NO	0.8243	25.38	25.40	NO	1.000	1.001	9.83	98.3	NO
9	1,2,3,7,8-PeCDF	3.46e5	6.09e5	1.55	1.63	NO	0.9626	29.54	29.56	NO	1.000	1.000	59.4	119	NO
10	2,3,4,7,8-PeCDF	3.61e5	5.83e5	1.55	1.58	NO	1.0684	30.60	30.60	NO	1.000	1.000	58.1	116	NO
11	1,2,3,4,7,8-HxCDF	2.20e5	4.63e5	1.24	1.21	NO	0.9535	33.21	33.23	NO	1.000	1.001	49.8	99.7	NO
12	1,2,3,6,7,8-HxCDF	2.39e5	4.86e5	1.24	1.20	NO	1.0080	33.35	33.35	NO	1.000	1.000	48.7	97.4	NO
13	2,3,4,6,7,8-HxCDF	2.20e5	4.50e5	1.24	1.24	NO	0.9907	34.01	34.01	NO	1.000	1.000	49.3	98.6	NO
14	1,2,3,7,8,9-HxCDF	1.79e5	3.89e5	1.24	1.22	NO	0.9506	35.01	35.02	NO	1.000	1.000	48.4	96.8	NO
15	1,2,3,4,6,7,8-HpCDF	1.66e5	3.44e5	1.04	1.00	NO	0.9985	36.58	36.59	NO	1.000	1.000	48.3	96.6	NO
16	1,2,3,4,7,8,9-HpCDF	1.29e5	2.40e5	1.04	0.99	NO	1.1238	35.62	35.63	NO	1.000	1.000	48.1	96.1	NO
17	OCDF	2.47e5	5.69e5	0.89	0.87	NO	0.8682	41.24	41.24	NO	1.000	1.000	100	100	NO
18	13C-2,3,7,8-TCDD	4.70e5	4.14e5	0.77	0.82	NO	1.1089	25.05	25.07	NO	1.020	1.020	102	102	NO
19	13C-1,2,3,7,8-PeCDD	3.06e5	4.14e5	0.63	0.65	NO	0.8595	30.77	30.79	NO	1.216	1.217	88.1	86.1	NO

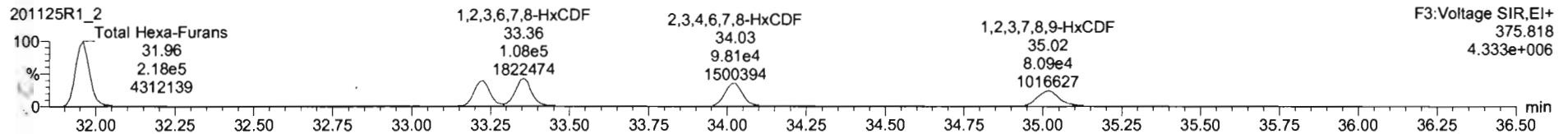
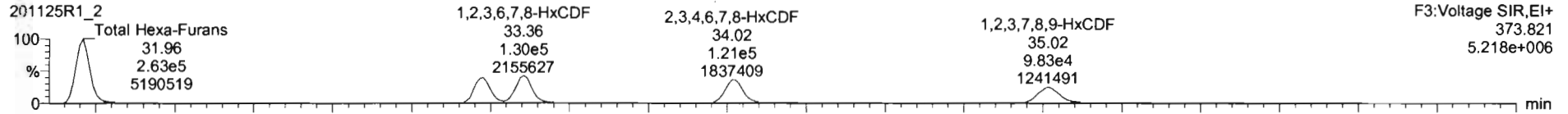


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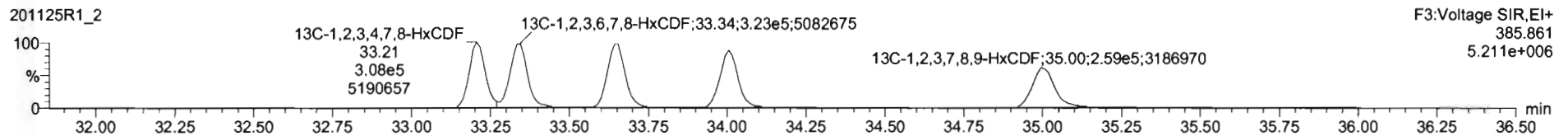
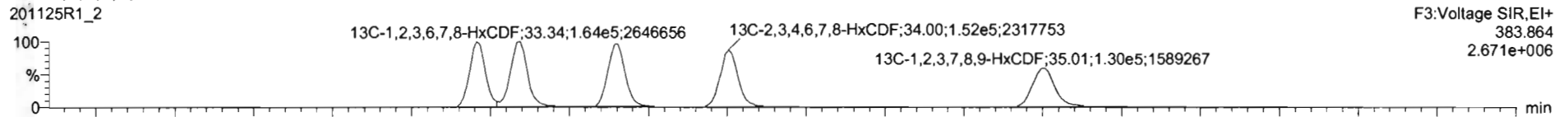
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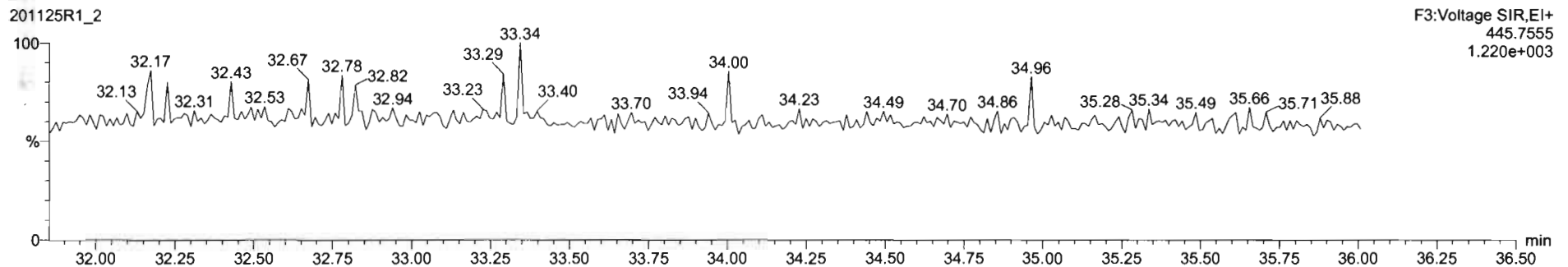
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13C-1,2,3,4,7,8-HxCDF



DPE3

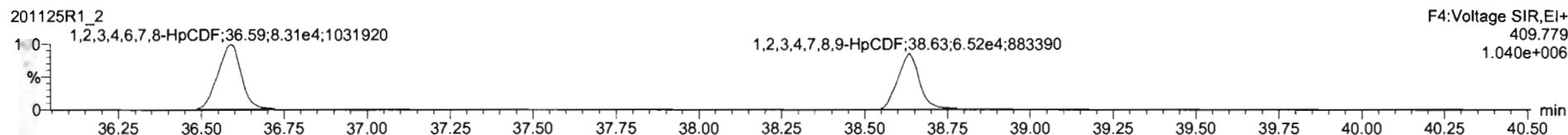
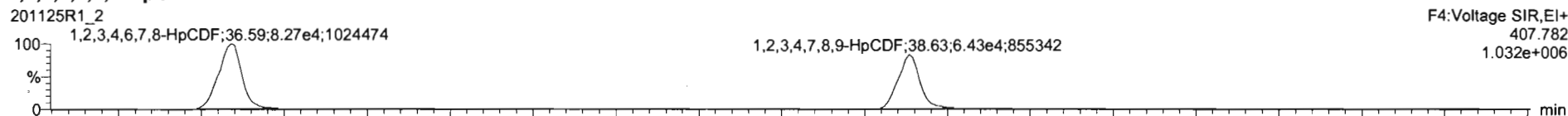


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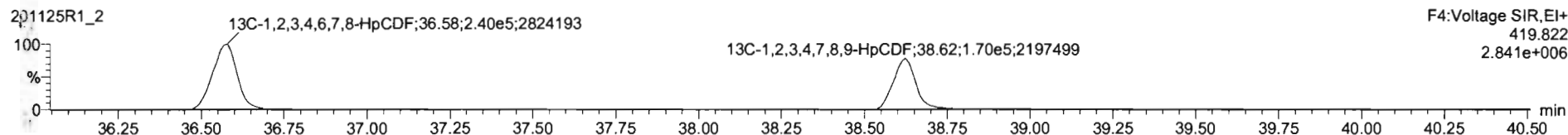
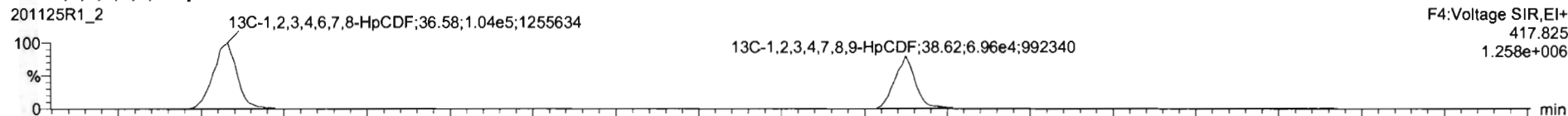
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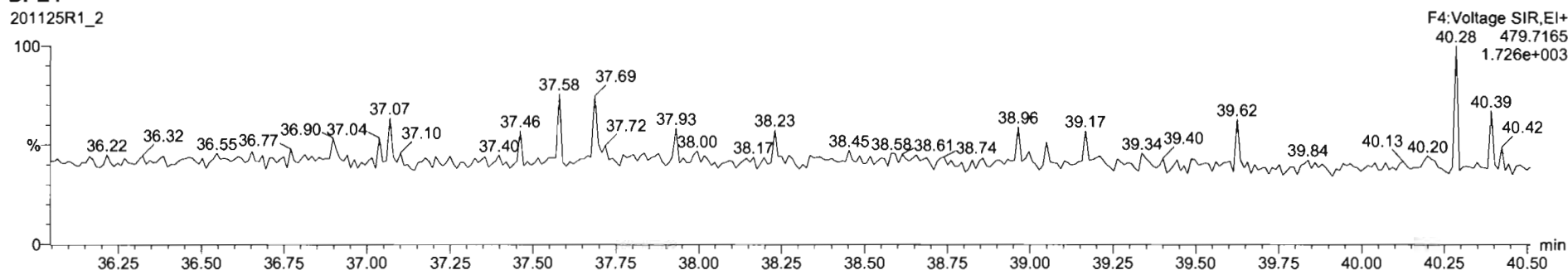
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13C-1,2,3,4,6,7,8-HpCDF



DPE4

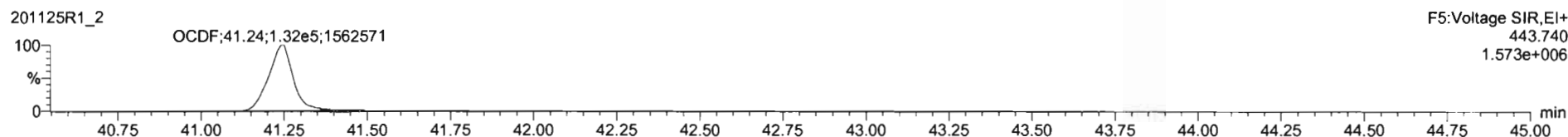
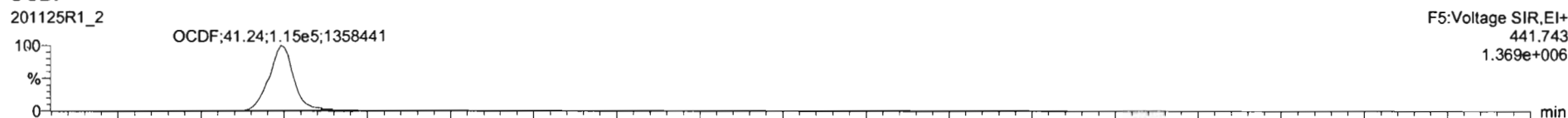


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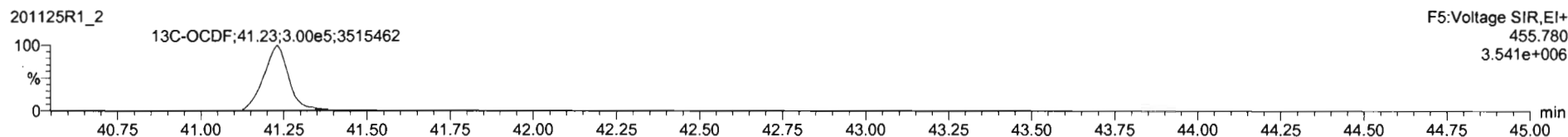
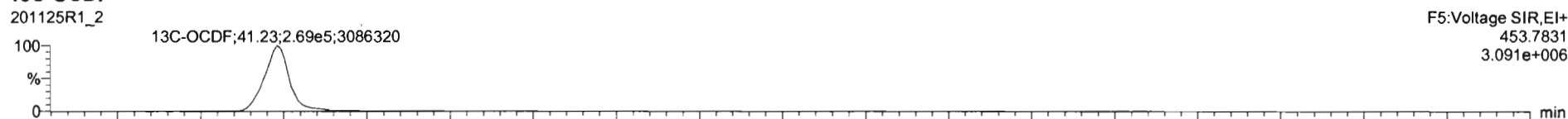
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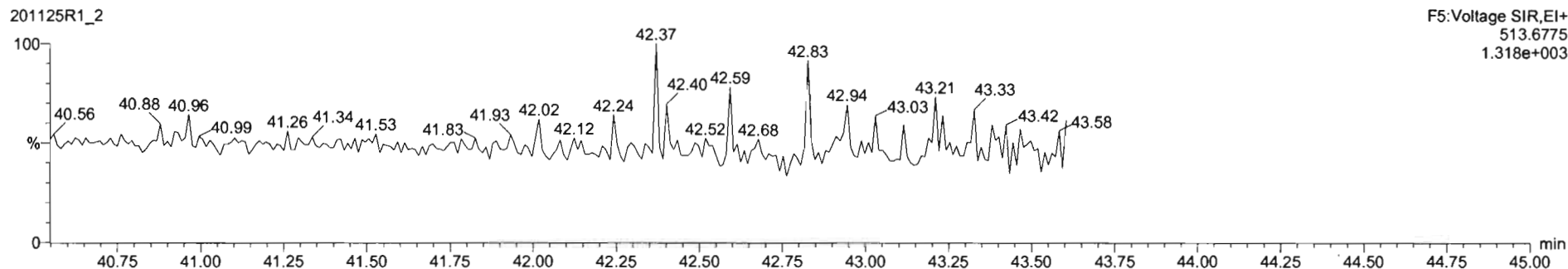
OCDF



13C-OCDF



DPE5

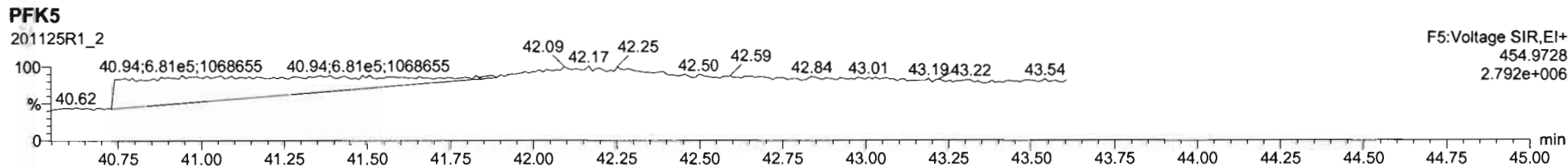
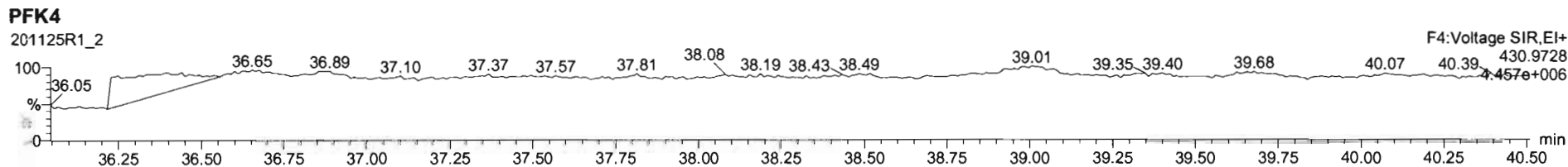
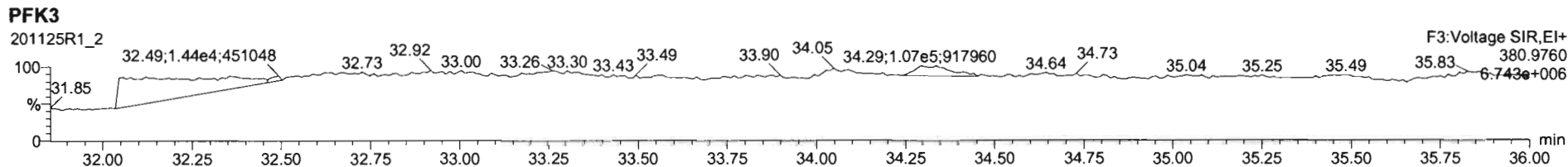
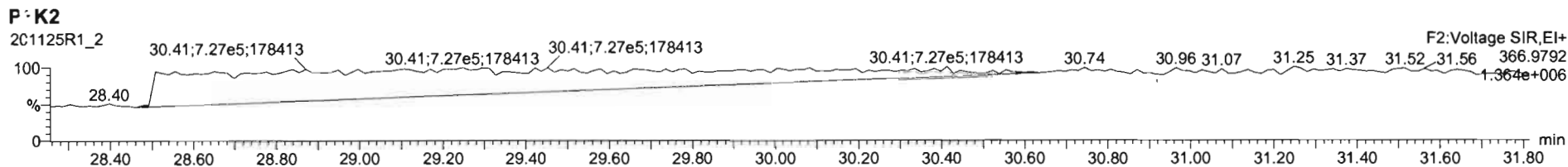
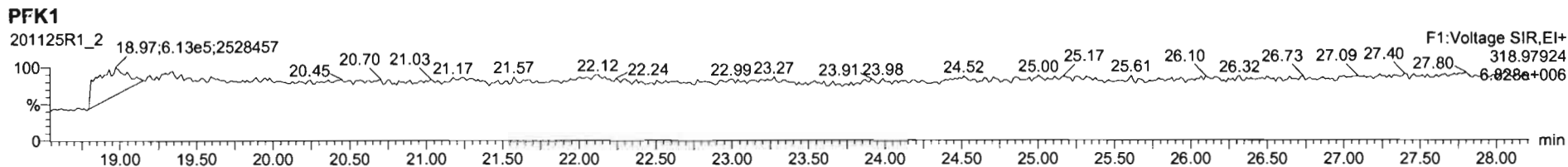


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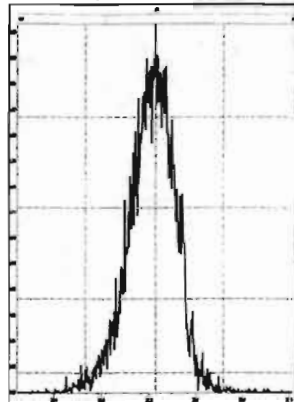
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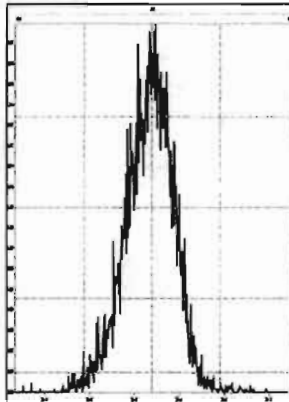
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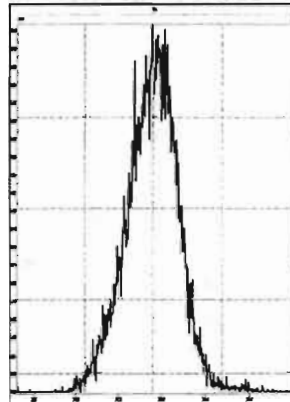
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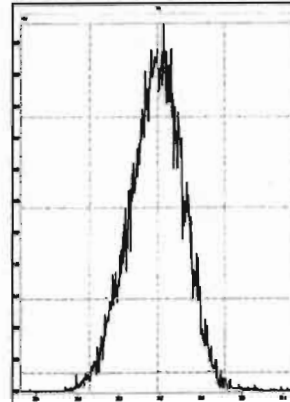
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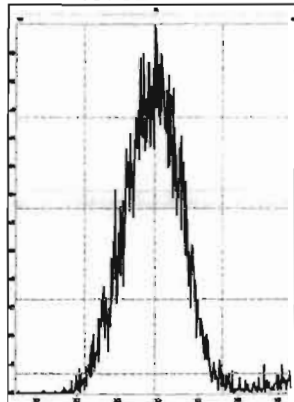
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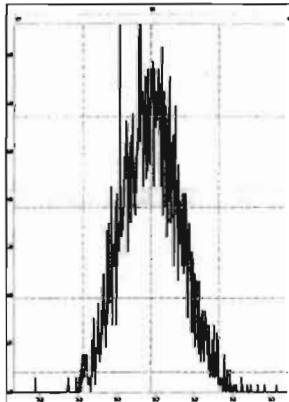
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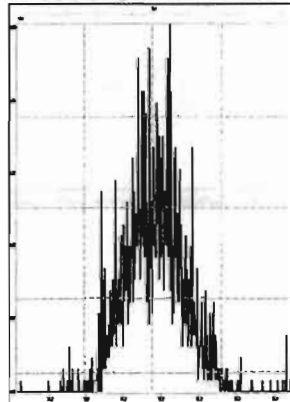
M 342.9792 R 11064



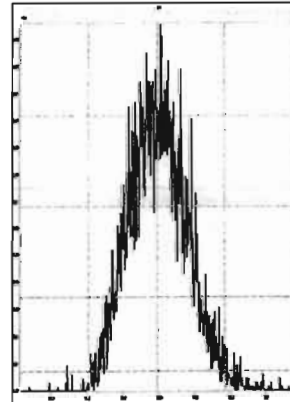
M 354.9792 R 10822



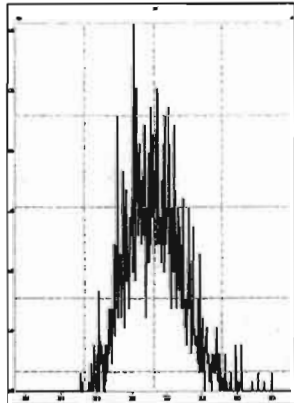
M 366.9792 R 11734



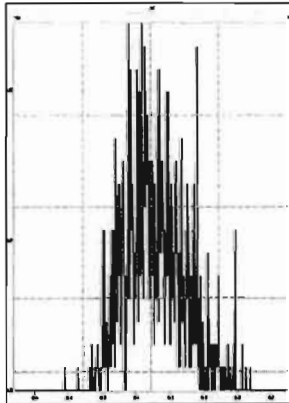
M 380.9760 R 11311



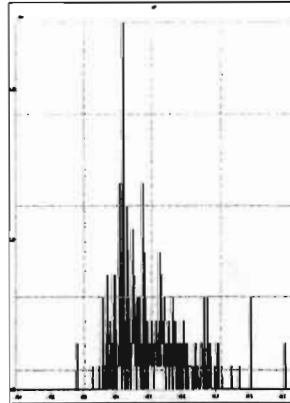
M 392.9760 R 13017



M 404.9760 R 14284



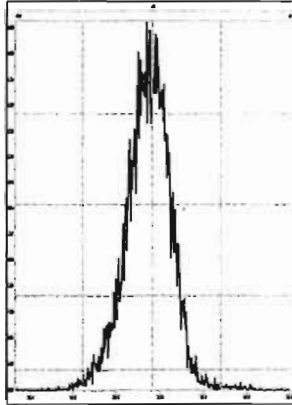
M 416.9760 R 26884



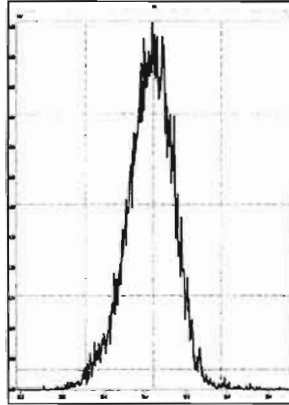
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:02:29 Pacific Standard Time

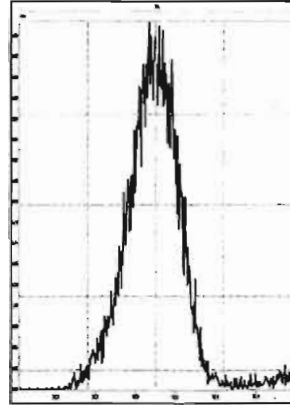
M 318.9792 R 14123



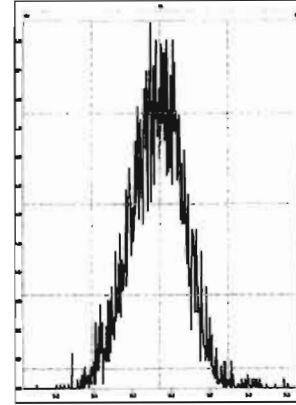
M 330.9792 R 12439



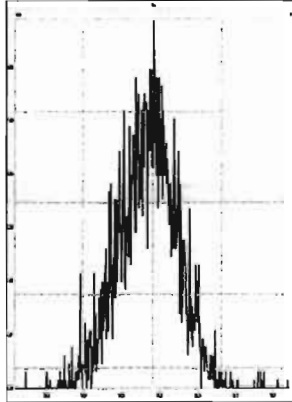
M 342.9792 R 11573



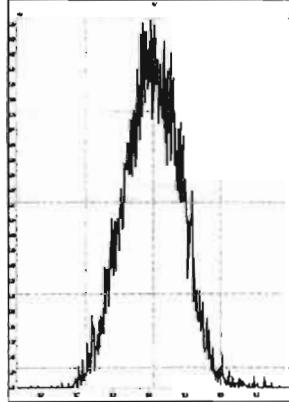
M 354.9792 R 12256



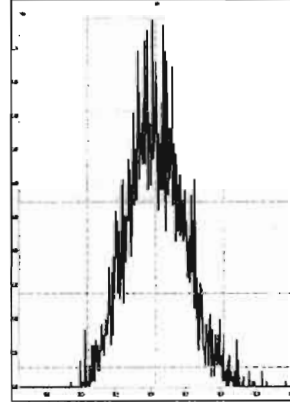
M 366.9792 R 12753



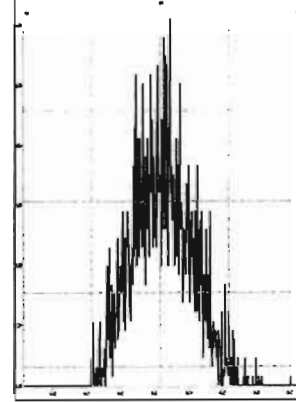
M 380.9760 R 11063



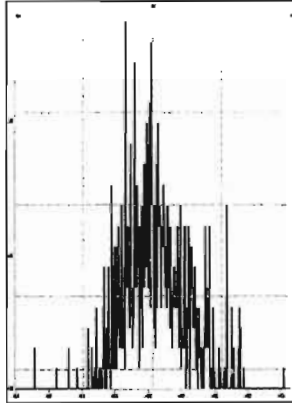
M 392.9760 R 11791



M 404.9760 R 12195



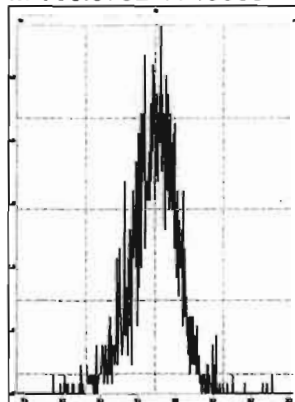
M 416.9760 R 16444



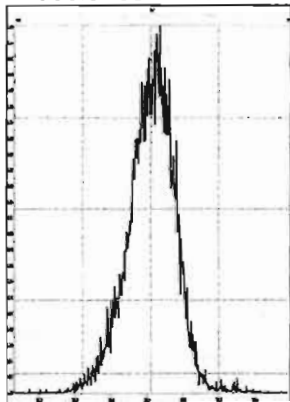
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:03:05 Pacific Standard Time

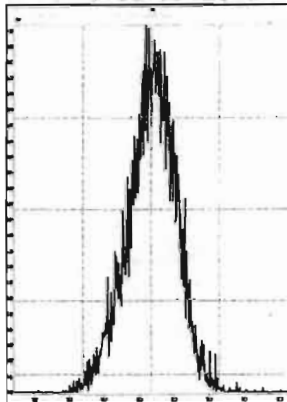
M 366.9792 R 13368



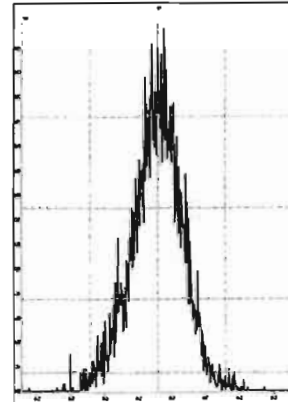
M 380.9760 R 13229



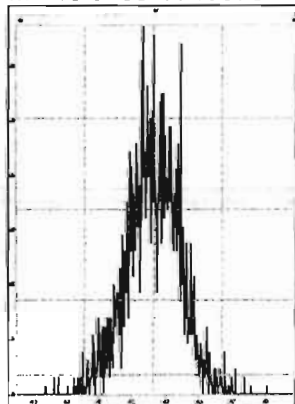
M 392.9760 R 12819



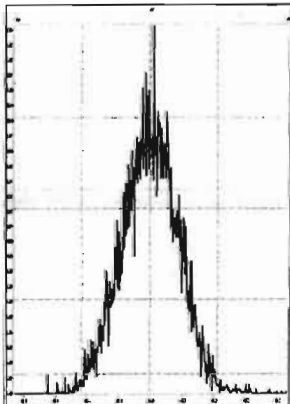
M 404.9760 R 13229



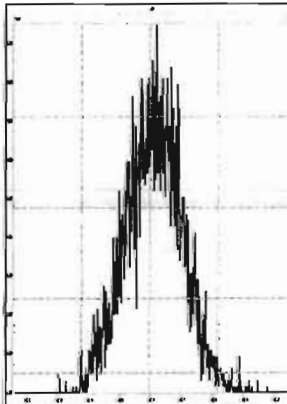
M 416.9760 R 13970



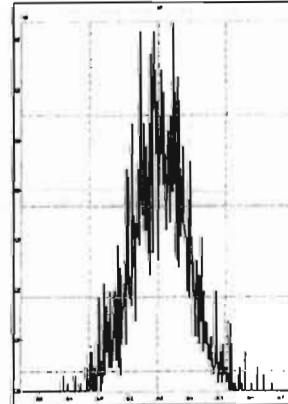
M 430.9728 R 11157



M 442.9728 R 10821



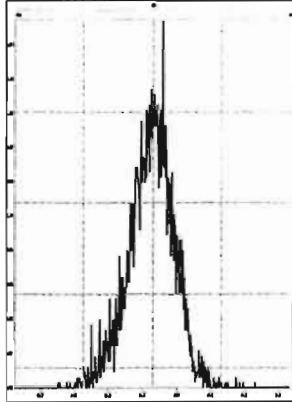
M 454.9728 R 11737



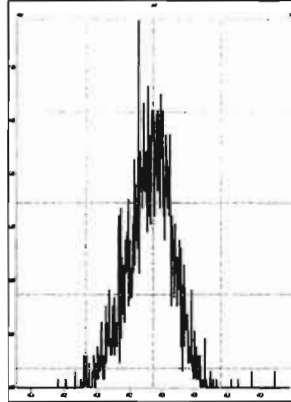
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:03:33 Pacific Standard Time

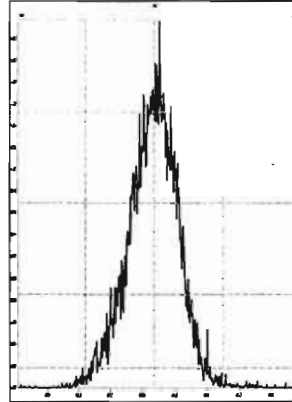
M 404.9760 R 14283



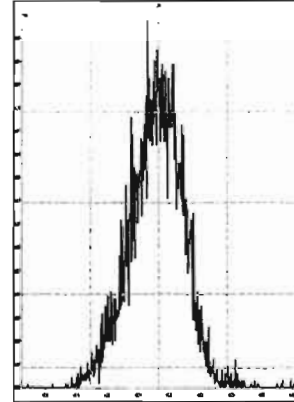
M 416.9760 R 14793



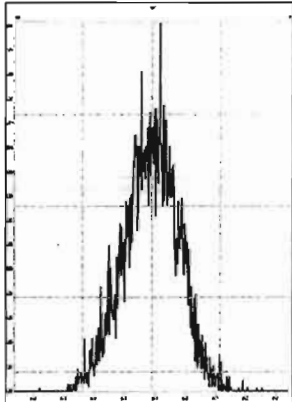
M 430.9728 R 12313



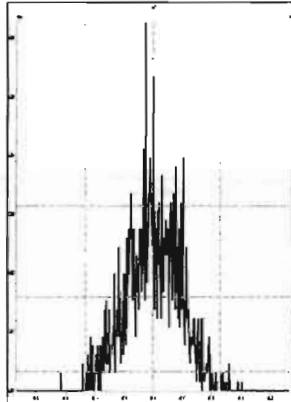
M 442.9728 R 12690



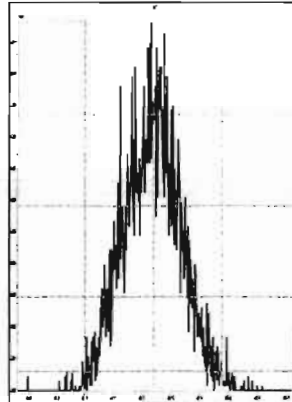
M 454.9728 R 11519



M 466.9728 R 14124



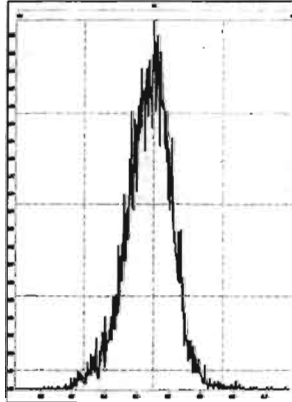
M 480.9696 R 11959



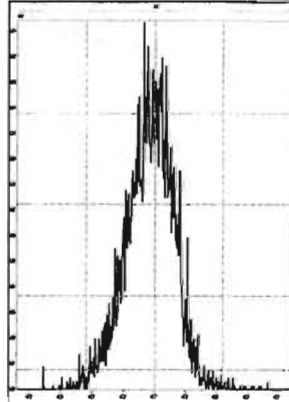
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:03:51 Pacific Standard Time

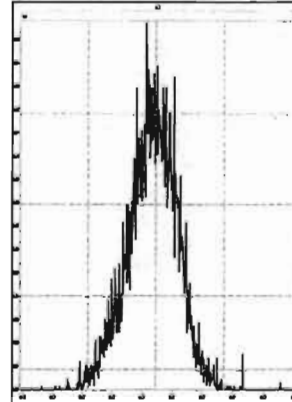
M 430.9728 R 13661



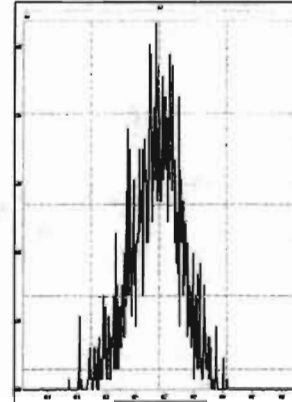
M 442.9728 R 12435



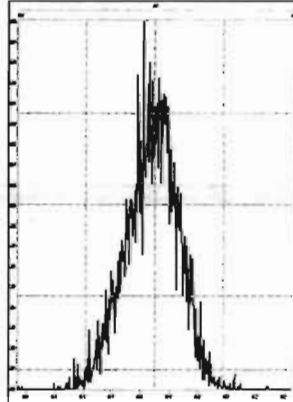
M 454.9728 R 13020



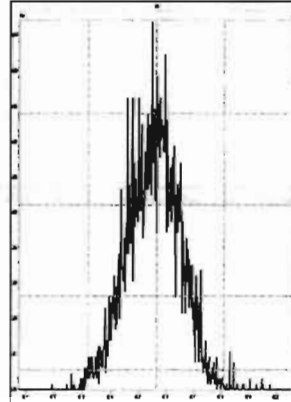
M 466.9728 R 12497



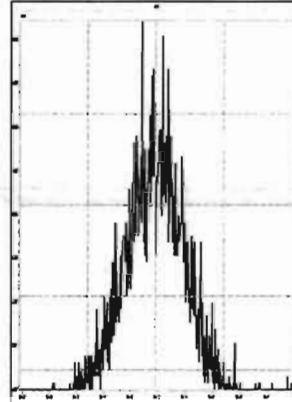
M 480.9696 R 12437



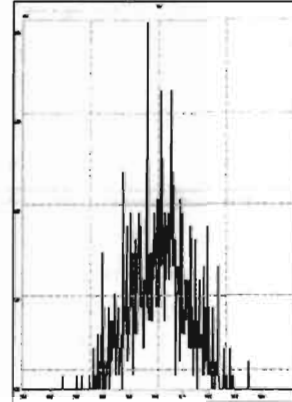
M 492.9696 R 12623



M 504.9696 R 13157



M 516.9697 R 15626



HKMS CALIBRATION STANDARDS REVIEW CHECKLIST

1
Beg. Calibration ID: ST201125R2-1

Reviewed By: HN 12/01/2020

Initials & Date

End Calibration ID: NA

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

^A **Beg.** ^B **End**

Comments:

Ⓐ BEGINNING RES CHECK FAILED TO PRINT DUE TO SOFTWARE ISSUE. BEG. RES CHECK FOR 20125R1 ALSO USED AS BEG RES CHECK FOR 201125R2

Ⓑ END. RES CHECK PROCESSED MANUALLY AFTER SEQUENCE FINISHED RUNNING

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-2.qld

Last Altered: Thursday, November 26, 2020 07:20:26 Pacific Standard Time

Printed: Thursday, November 26, 2020 07:20:53 Pacific Standard Time

GRB 11/26/2020
FIN 12/01/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R2_2, Date: 25-Nov-2020, Time: 22:16:41, ID: ST201125R2_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	4.84e4	4.22e5	0.86	NO	0.950	26.11	26.10	NO	1.001	1.001	12.069	121	NO
2	2 1,2,3,7,8-PeCDD	1.51e5	2.63e5	0.62	NO	0.885	30.82	30.82	NO	1.000	1.001	64.633	129	NO
3	3 1,2,3,4,7,8-HxCDD	1.52e5	2.57e5	1.29	NO	1.02	34.15	34.15	NO	1.000	1.000	58.315	117	NO
4	4 1,2,3,6,7,8-HxCDD	1.57e5	3.10e5	1.20	NO	0.915	34.27	34.27	NO	1.000	1.000	55.493	111	NO
5	5 1,2,3,7,8,9-HxCDD	1.56e5	2.90e5	1.22	NO	0.934	34.54	34.55	NO	1.000	1.001	57.703	115	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.12e5	2.38e5	1.00	NO	0.870	38.04	38.05	NO	1.000	1.000	54.028	108	NO
7	7 OCDD	1.86e5	3.78e5	0.88	NO	0.872	41.01	41.03	NO	1.000	1.001	112.60	113	NO
8	8 2,3,7,8-TCDF	6.36e4	7.59e5	0.75	NO	0.824	25.40	25.42	NO	1.000	1.001	10.169	102	NO
9	9 1,2,3,7,8-PeCDF	2.90e5	5.30e5	1.61	NO	0.963	29.56	29.56	NO	1.000	1.001	56.801	114	NO
10	10 2,3,4,7,8-PeCDF	3.17e5	5.07e5	1.61	NO	1.07	30.62	30.63	NO	1.000	1.000	58.600	117	NO
11	11 1,2,3,4,7,8-HxCDF	1.86e5	3.92e5	1.21	NO	0.953	33.24	33.25	NO	1.000	1.000	49.747	99.5	NO
12	12 1,2,3,6,7,8-HxCDF	2.03e5	4.08e5	1.21	NO	1.01	33.37	33.38	NO	1.000	1.000	49.459	98.9	NO
13	13 2,3,4,6,7,8-HxCDF	1.87e5	3.88e5	1.18	NO	0.991	34.04	34.05	NO	1.000	1.000	48.602	97.2	NO
14	14 1,2,3,7,8,9-HxCDF	1.53e5	3.18e5	1.28	NO	0.951	35.03	35.05	NO	1.000	1.001	50.518	101	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.37e5	2.81e5	0.98	NO	0.999	36.61	36.62	NO	1.000	1.000	48.989	98.0	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.08e5	1.96e5	1.00	NO	1.12	38.67	38.68	NO	1.000	1.000	48.861	97.7	NO
17	17 OCDF	2.07e5	4.62e5	0.87	NO	0.868	41.30	41.31	NO	1.000	1.001	102.92	103	NO
18	18 13C-2,3,7,8-TCDD	4.22e5	3.75e5	0.84	NO	1.11	26.07	26.08	NO	1.030	1.030	101.56	102	NO
19	19 13C-1,2,3,7,8-PeCDD	2.63e5	3.75e5	0.65	NO	0.859	30.79	30.81	NO	1.216	1.217	81.778	81.8	NO
20	20 13C-1,2,3,4,7,8-HxCDD	2.57e5	4.18e5	1.33	NO	0.700	34.14	34.14	NO	1.014	1.014	87.902	87.9	NO
21	21 13C-1,2,3,6,7,8-HxCDD	3.10e5	4.18e5	1.26	NO	0.833	34.28	34.26	NO	1.018	1.017	89.182	89.2	NO
22	22 13C-1,2,3,7,8,9-HxCDD	2.90e5	4.18e5	1.33	NO	0.762	34.52	34.53	NO	1.025	1.025	91.129	91.1	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.38e5	4.18e5	1.06	NO	0.650	38.01	38.04	NO	1.129	1.130	87.662	87.7	NO
24	24 13C-OCDD	3.78e5	4.18e5	0.92	NO	0.539	40.97	41.01	NO	1.217	1.218	167.99	84.0	NO
25	25 13C-2,3,7,8-TCDF	7.59e5	7.51e5	0.79	NO	0.981	25.40	25.39	NO	1.003	1.003	103.00	103	NO
26	26 13C-1,2,3,7,8-PeCDF	5.30e5	7.51e5	1.64	NO	0.792	29.52	29.55	NO	1.166	1.167	89.272	89.3	NO
27	27 13C-2,3,4,7,8-PeCDF	5.07e5	7.51e5	1.59	NO	0.778	30.58	30.62	NO	1.208	1.210	86.802	86.8	NO
28	28 13C-1,2,3,4,7,8-HxCDF	3.92e5	4.18e5	0.50	NO	0.954	33.23	33.24	NO	0.987	0.987	98.469	98.5	NO
29	29 13C-1,2,3,6,7,8-HxCDF	4.08e5	4.18e5	0.50	NO	1.01	33.36	33.37	NO	0.991	0.991	96.992	97.0	NO
30	30 13C-2,3,4,6,7,8-HxCDF	3.88e5	4.18e5	0.49	NO	0.921	34.03	34.04	NO	1.011	1.011	100.80	101	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.18e5	4.18e5	0.51	NO	0.803	35.03	35.03	NO	1.040	1.040	94.655	94.7	NO

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-2.qld

Last Altered: Thursday, November 26, 2020 07:20:26 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:20:53 Pacific Standard Time

Name: 201125R2_2, Date: 25-Nov-2020, Time: 22:16:41, ID: ST201125R2_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

	# 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	2.81e5	4.18e5	0.42	NO	0.735	36.60	36.61	NO	1.087	1.087	91.460	91.5	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.96e5	4.18e5	0.42	NO	0.568	38.64	38.67	NO	1.147	1.148	82.786	82.8	NO
34	34 13C-OCDF	4.62e5	4.18e5	0.89	NO	0.629	41.26	41.29	NO	1.225	1.226	175.96	88.0	NO
35	35 37Cl-2,3,7,8-TCDD	4.88e4	3.75e5			1.09	26.07	26.10	NO	1.030	1.031	11.978	120	NO
36	36 13C-1,2,3,4-TCDD	3.75e5	3.75e5	0.83	NO	1.00	25.37	25.31	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	7.51e5	7.51e5	0.79	NO	1.00	23.87	23.82	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	4.18e5	4.18e5	0.51	NO	1.00	33.71	33.67	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Thursday, November 26, 2020 08:06:34 Pacific Standard Time
Printed: Thursday, November 26, 2020 08:06:37 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

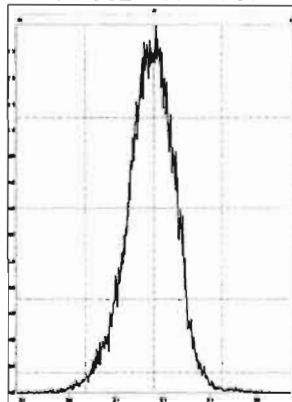
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	201125R2_1	SOLVENT BLANK	25-Nov-20	21:31:48
2	201125R2_2	ST201125R2_1 1613 CS3 20F1105	25-Nov-20	22:16:41
3	201125R2_3	TCDF CPSM	25-Nov-20	23:01:33
4	201125R2_4	SOLVENT BLANK	25-Nov-20	23:46:27
5	201125R2_5	2002374-01 USMPDI-046SC-A-01-02-201029 ...	26-Nov-20	00:31:21
6	201125R2_6	2002374-02 USMPDI-046SC-A-02-03-201029 ...	26-Nov-20	01:16:13
7	201125R2_7	2002374-03 USMPDI-046SC-A-03-04-201029 ...	26-Nov-20	02:01:05
8	201125R2_8	2002374-04 USMPDI-046SC-A-04-05-201029 ...	26-Nov-20	02:45:59
9	201125R2_9	2002374-05 USMPDI-054SC-A-05-06-201029 ...	26-Nov-20	03:30:52
10	201125R2_10	2002374-06 USMPDI-054SC-A-06-07-201029 ...	26-Nov-20	04:15:46
11	201125R2_11	2002374-07 USMPDI-054SC-A-07-08-201029 ...	26-Nov-20	05:00:39
12	201125R2_12	2002374-08 USMPDI-054SC-A-08-09-201029 ...	26-Nov-20	05:45:33
13	201125R2_13	B0K0172-DUP1 Duplicate 11.57	26-Nov-20	06:30:25
14	201125R2_14	2002436-02RE1 USMPDI-027SC-A-02-03-201...	26-Nov-20	07:15:21

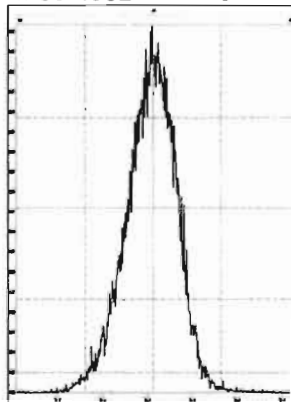
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 10:03:58 Pacific Standard Time

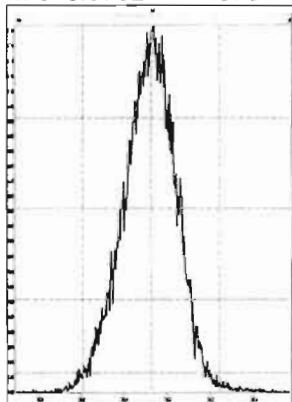
M 292.9824 R 11797



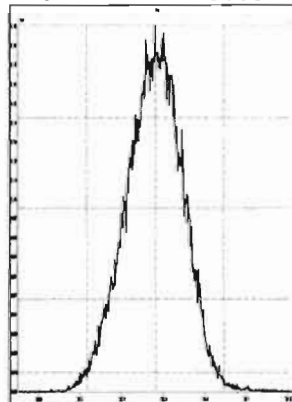
M 304.9824 R 12014



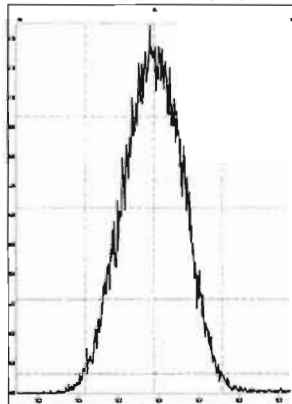
M 318.9792 R 12075



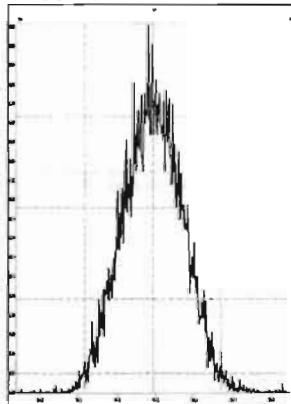
M 330.9792 R 10639



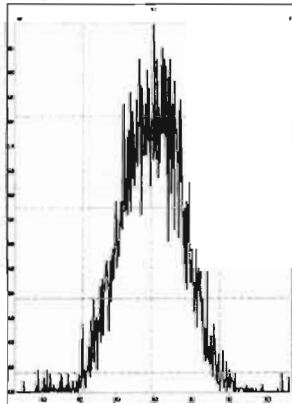
M 342.9792 R 10038



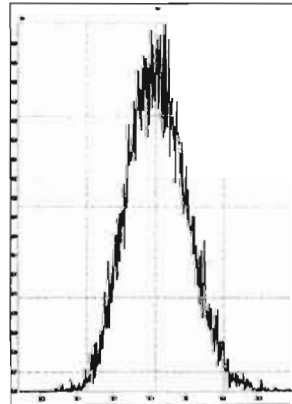
M 354.9792 R 10865



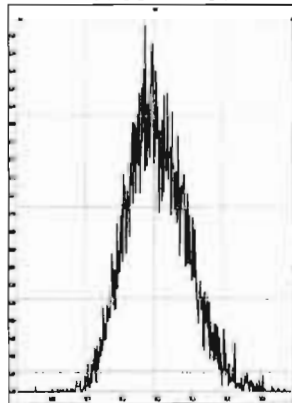
M 366.9792 R 10506



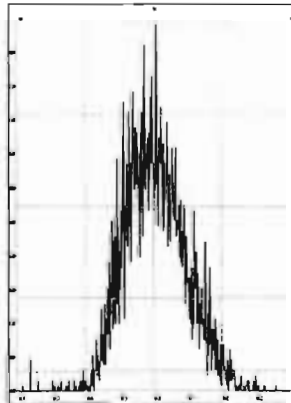
M 380.9760 R 10162



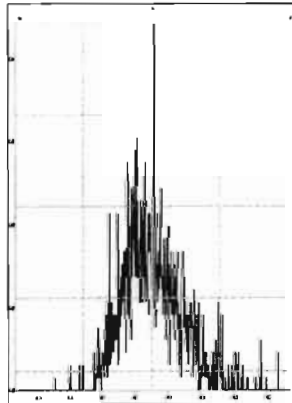
M 392.9760 R 10967



M 404.9760 R 11363



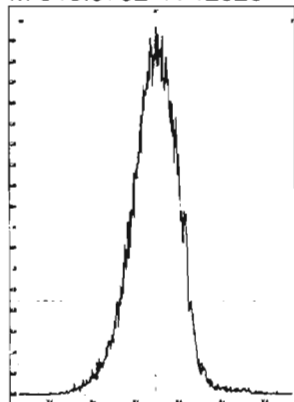
M 416.9760 R 12256



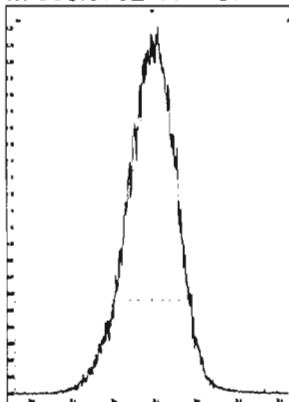
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 10:04:39 Pacific Standard Time

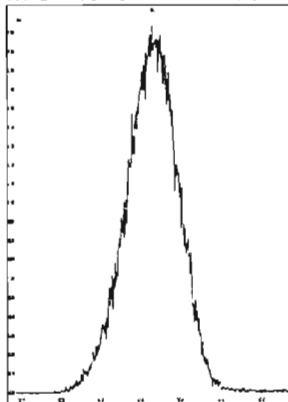
M 318.9792 R 12626



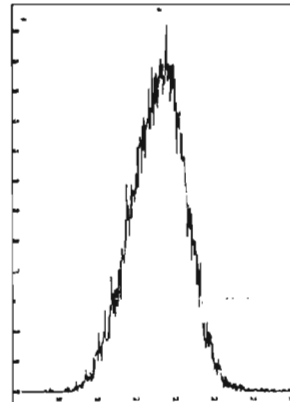
M 330.9792 R 11571



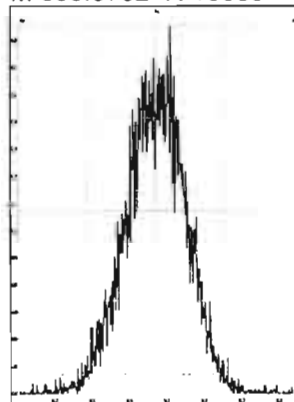
M 342.9792 R 11160



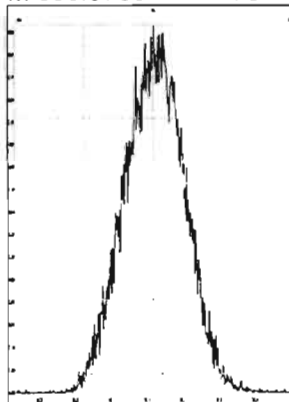
M 354.9792 R 10824



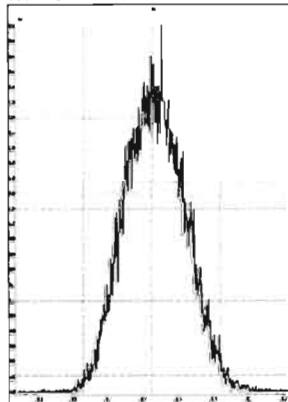
M 366.9792 R 10080



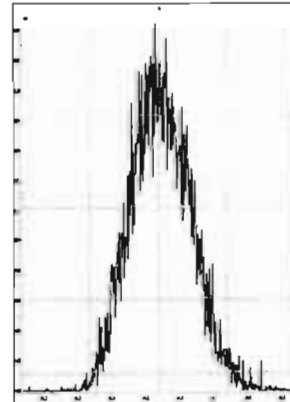
M 380.9760 R 10078



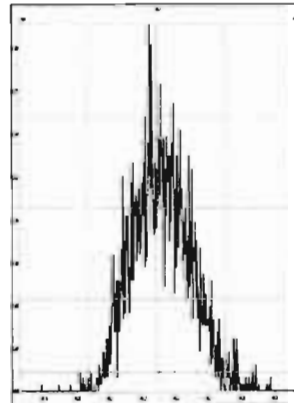
M 392.9760 R 10416



M 404.9760 R 10327



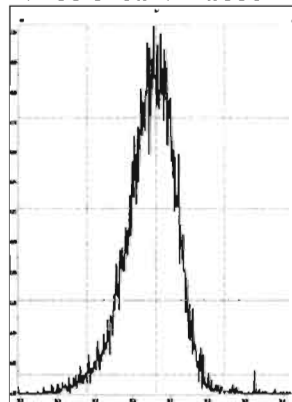
M 416.9760 R 11573



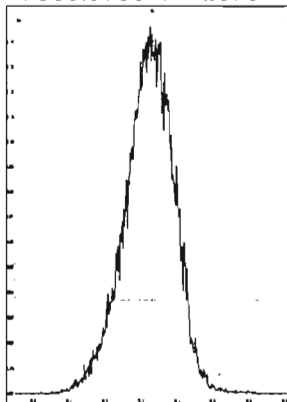
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 10:05:02 Pacific Standard Time

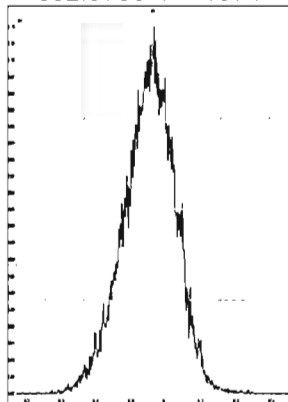
M 366.9792 R 12690



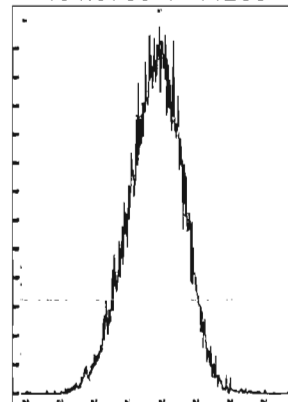
M 380.9760 R 12075



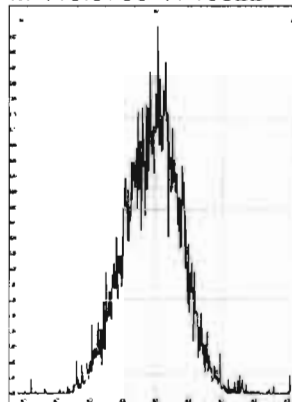
M 392.9760 R 11574



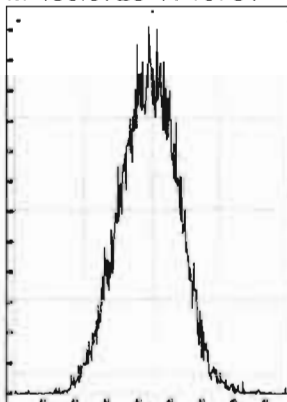
M 404.9760 R 11263



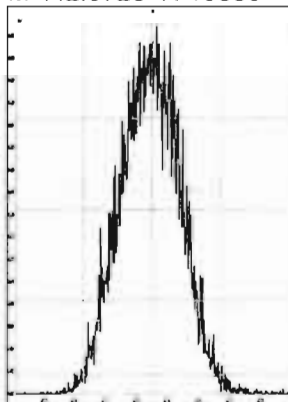
M 416.9760 R 10822



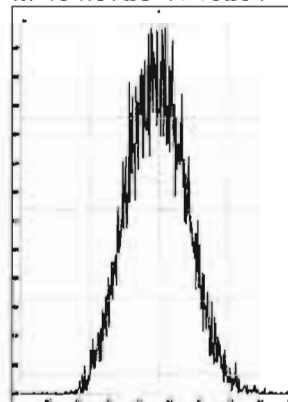
M 430.9728 R 10731



M 442.9728 R 10330



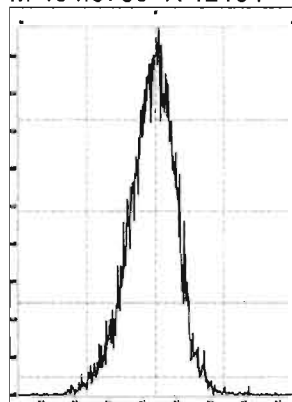
M 454.9728 R 10201



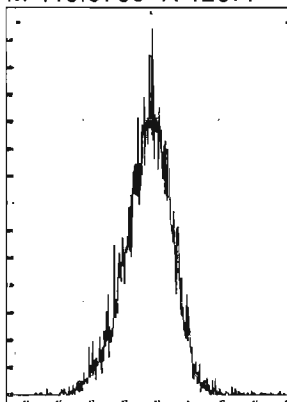
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 10:05:26 Pacific Standard Time

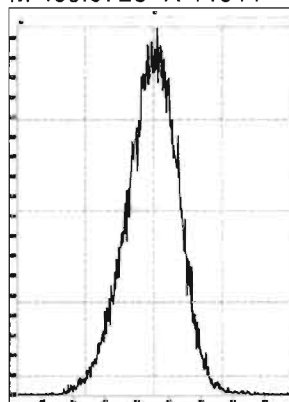
M 404.9760 R 12134



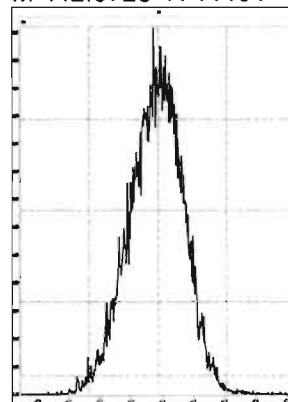
M 416.9760 R 12377



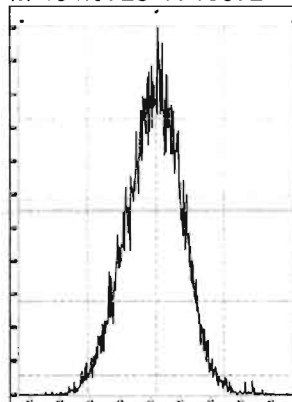
M 430.9728 R 11311



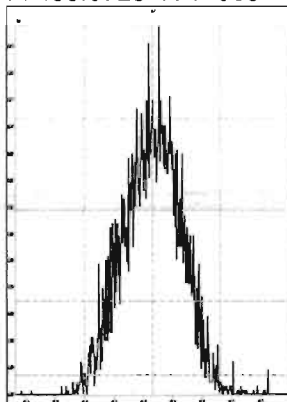
M 442.9728 R 11161



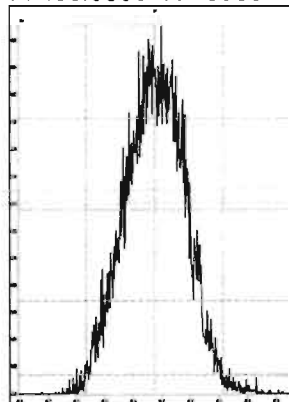
M 454.9728 R 10372



M 466.9728 R 11905



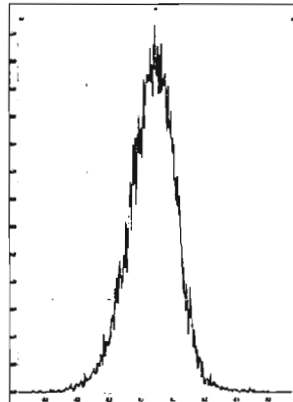
M 480.9696 R 10506



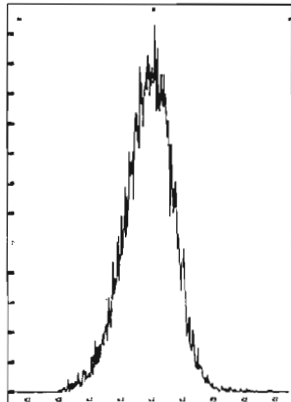
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 10:05:48 Pacific Standard Time

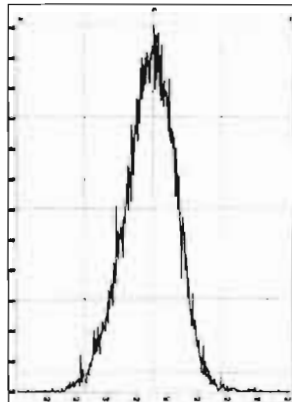
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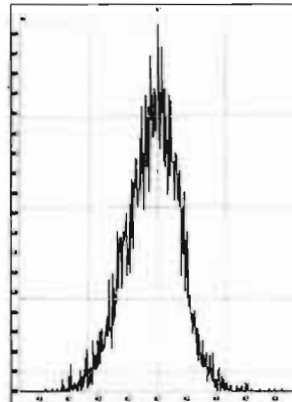
M 442.9728 R 11850



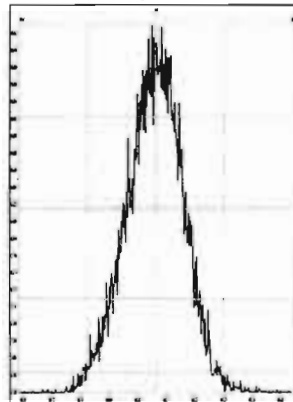
M 454.9728 R 11792



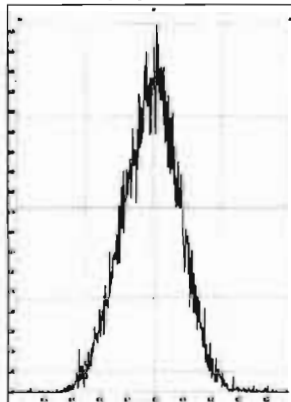
M 466.9728 R 12021



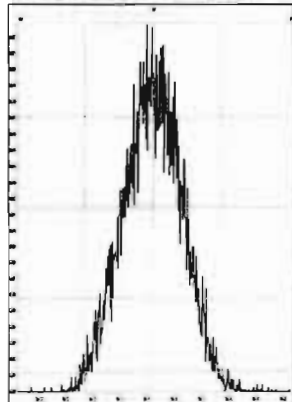
M 480.9696 R 10204



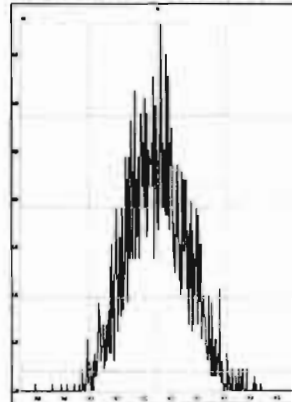
M 492.9696 R 11011



M 504.9696 R 10460



M 516.9697 R 10824



Dataset: Untitled

Last Altered: Thursday, November 26, 2020 07:14:55 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:15:07 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 10 Nov 2020 10:04:22
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R2_2, Date: 25-Nov-2020, Time: 22:16:41, ID: ST201125R2_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	Name	RT
1	1,3,6,8-TCDD (First)	22.27
2	1,2,8,9-TCDD (Last)	27.01
3	1,2,4,7,9-PeCDD (First)	28.55
4	1,2,3,8,9-PeCDD (Last)	31.18
5	1,2,4,6,7,9-HxCDD (First)	32.52
6	1,2,3,7,8,9-HxCDD (Last)	34.55
7	1,2,3,4,6,7,9-HpCDD (First)	37.02
8	1,2,3,4,6,7,8-HpCDD (Last)	38.05
9	1,3,6,8-TCDF (First)	20.05
10	1,2,8,9-TCDF (Last)	27.32
11	1,3,4,6,8-PeCDF (First)	26.90
12	1,2,3,8,9-PeCDF (Last)	31.55
13	1,2,3,4,6,8-HxCDF (First)	31.98
14	1,2,3,7,8,9-HxCDF (Last)	35.05
15	1,2,3,4,6,7,8-HpCDF (First)	36.62
16	1,2,3,4,7,8,9-HpCDF (Last)	38.68

Dataset: Untitled

Last Altered: Thursday, November 26, 2020 07:14:55 Pacific Standard Time

Printed: Thursday, November 26, 2020 07:15:07 Pacific Standard Time

GRB 11/26/2020
HN 12/01/2020

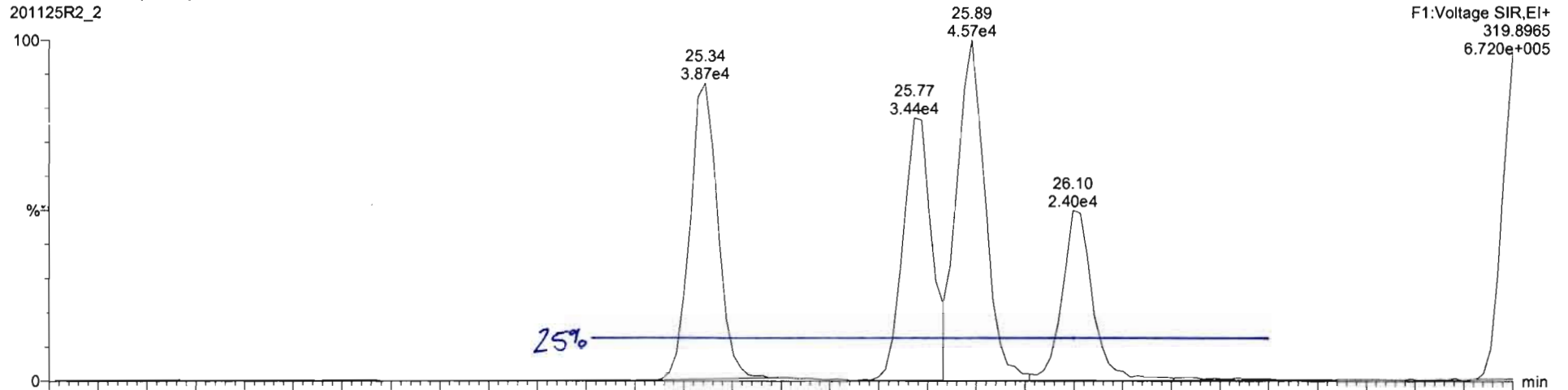
Method: U:\VG12.PRO\MethDB\CPSM.mdb 10 Nov 2020 10:04:22

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

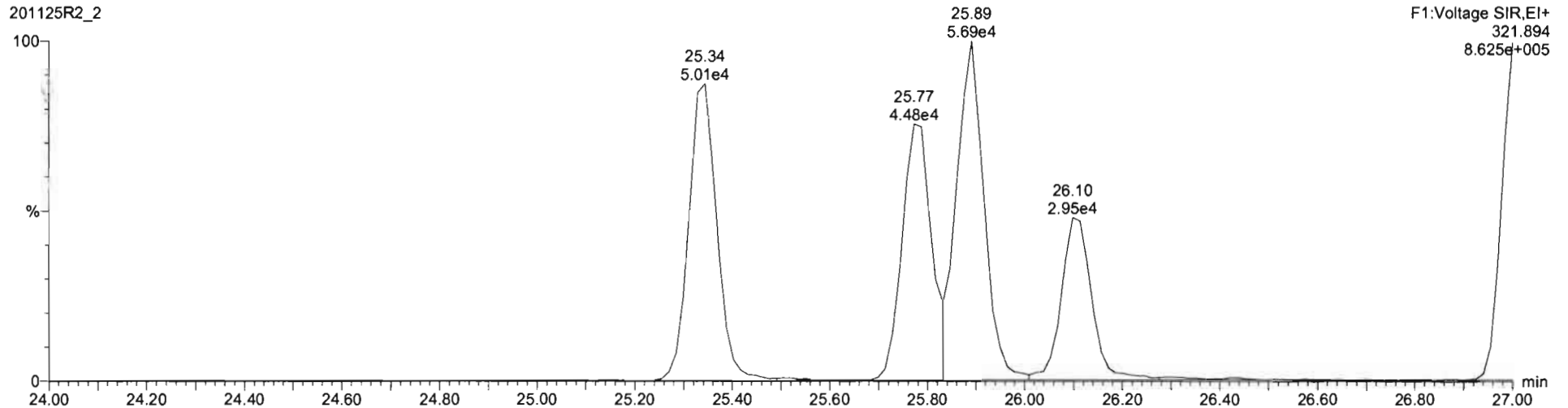
Name: 201125R2_2, Date: 25-Nov-2020, Time: 22:16:41, ID: ST201125R2_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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

201125R2_2



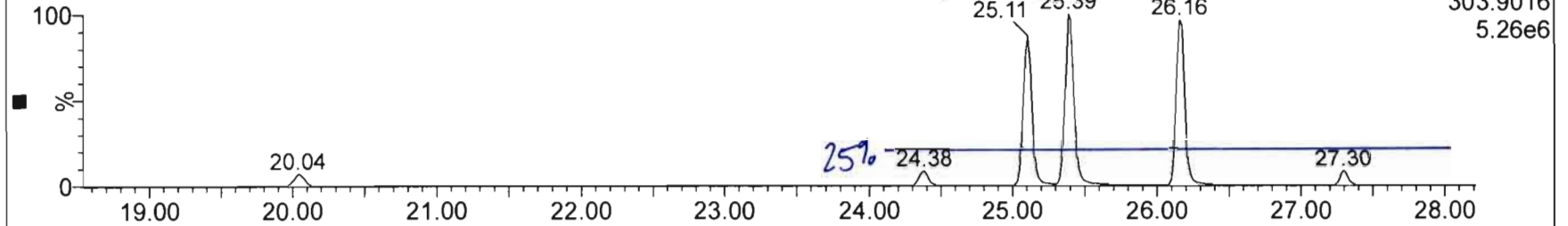
201125R2_2



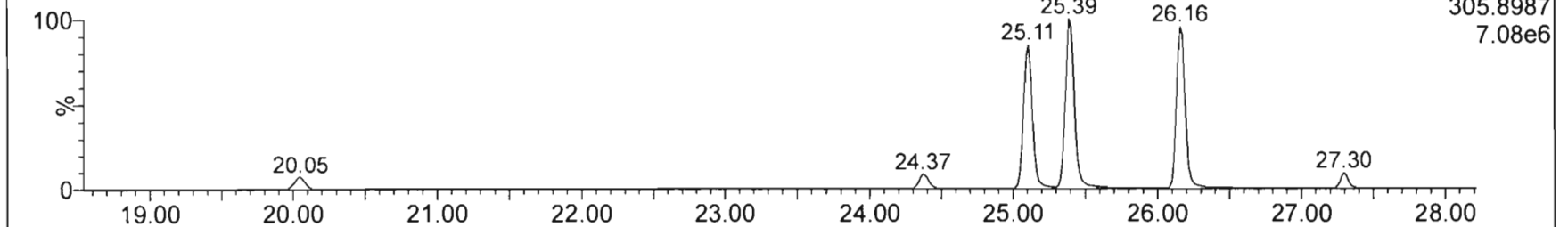
JAN 12/11/2020
GRB 11/21/2020

TCDF CPSM QC

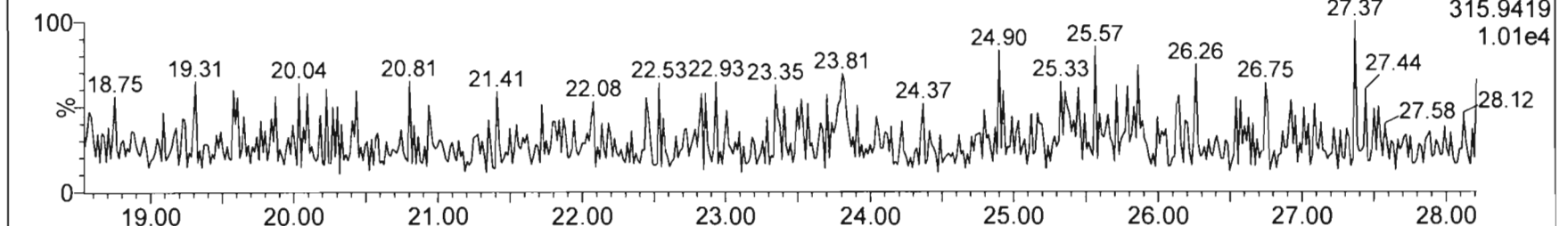
201125R2_3



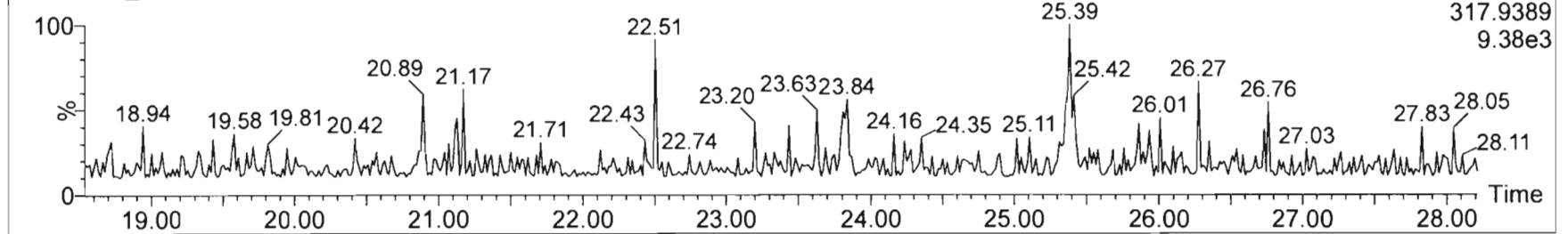
201125R2_3



201125R2_3



201125R2_3



Dataset: Untitled

Last Altered: Thursday, November 26, 2020 07:16:09 Pacific Standard Time

Printed: Thursday, November 26, 2020 07:16:12 Pacific Standard Time

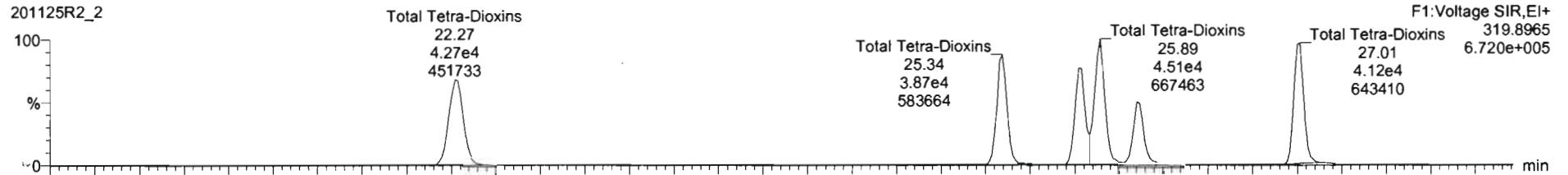
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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R2_2, Date: 25-Nov-2020, Time: 22:16:41, ID: ST201125R2_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

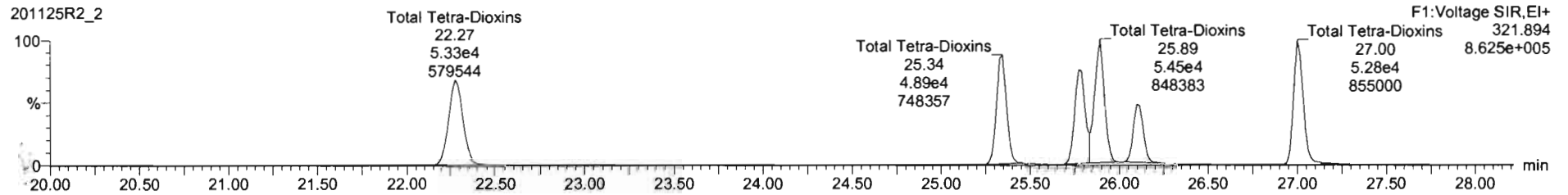
2,3,7,8-TCDD

201125R2_2



F1:Voltage SIR,EI+
319.8965
6.720e+005

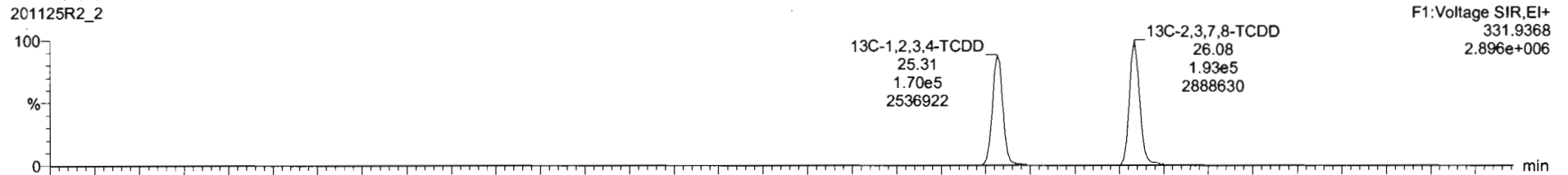
201125R2_2



F1:Voltage SIR,EI+
321.894
8.625e+005

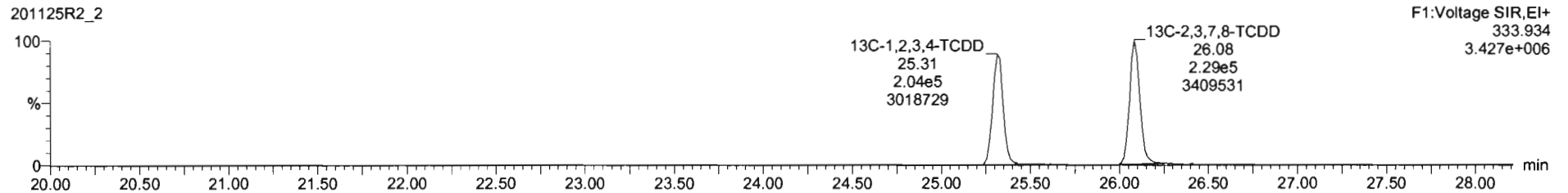
13C-2,3,7,8-TCDD

201125R2_2



F1:Voltage SIR,EI+
331.9368
2.896e+006

201125R2_2



F1:Voltage SIR,EI+
333.934
3.427e+006

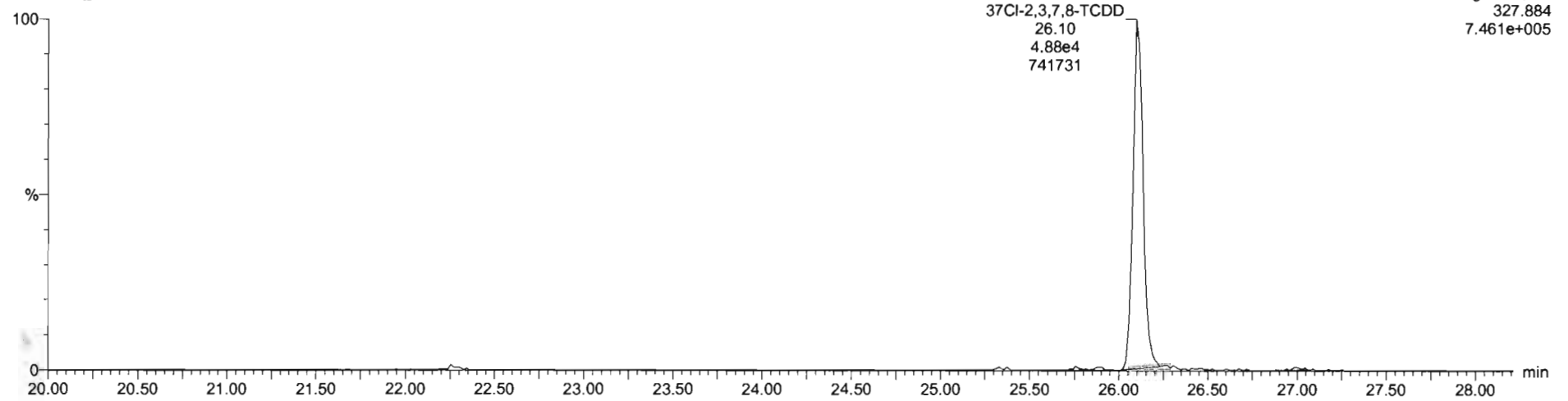
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Last Altered: Thursday, November 26, 2020 07:16:09 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:16:12 Pacific Standard Time

Name: 201125R2_2, Date: 25-Nov-2020, Time: 22:16:41, ID: ST201125R2_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

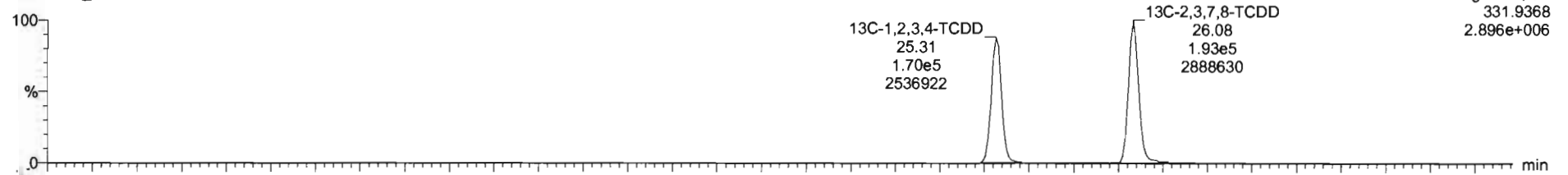
37Cl-2,3,7,8-TCDD

201125R2_2

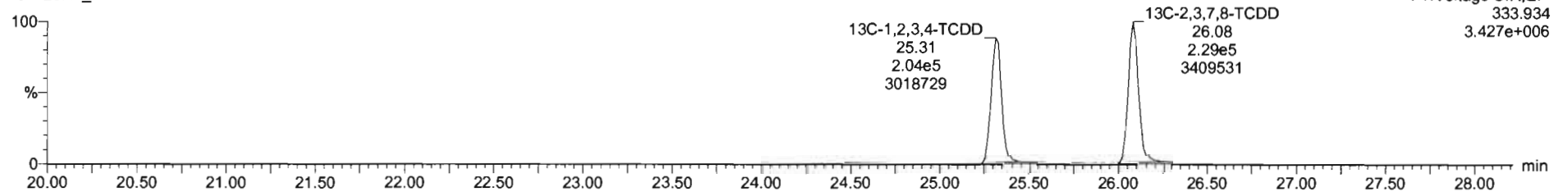


13C-1,2,3,4-TCDD

201125R2_2



201125R2_2



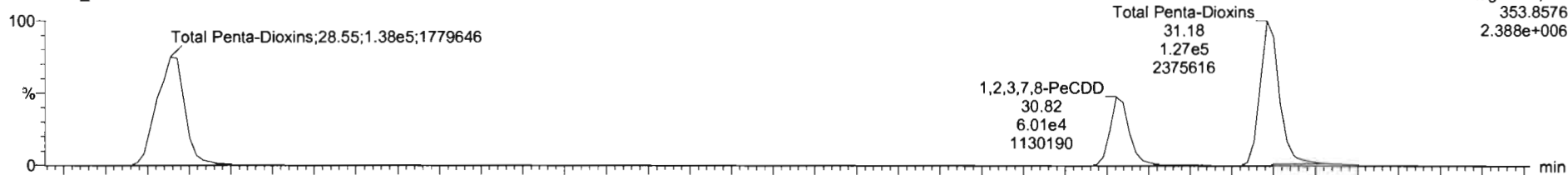
Dataset: Untitled

Last Altered: Thursday, November 26, 2020 07:16:09 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:16:12 Pacific Standard Time

Name: 201125R2_2, Date: 25-Nov-2020, Time: 22:16:41, ID: ST201125R2_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

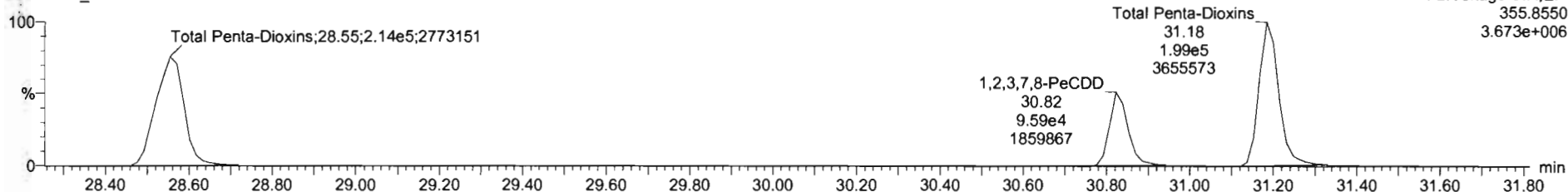
1,2,3,7,8-PeCDD

201125R2_2



F2:Voltage SIR,EI+
353.8576
2.388e+006

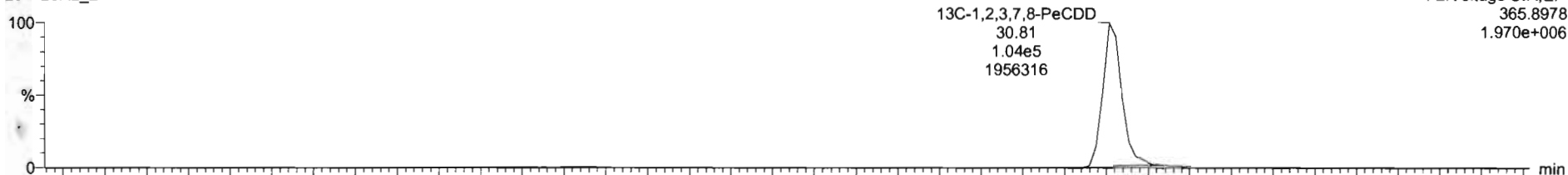
201125R2_2



F2:Voltage SIR,EI+
355.8550
3.673e+006

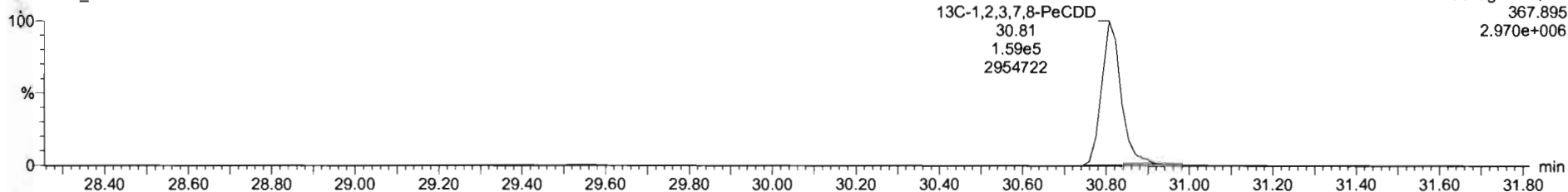
13C-1,2,3,7,8-PeCDD

201125R2_2

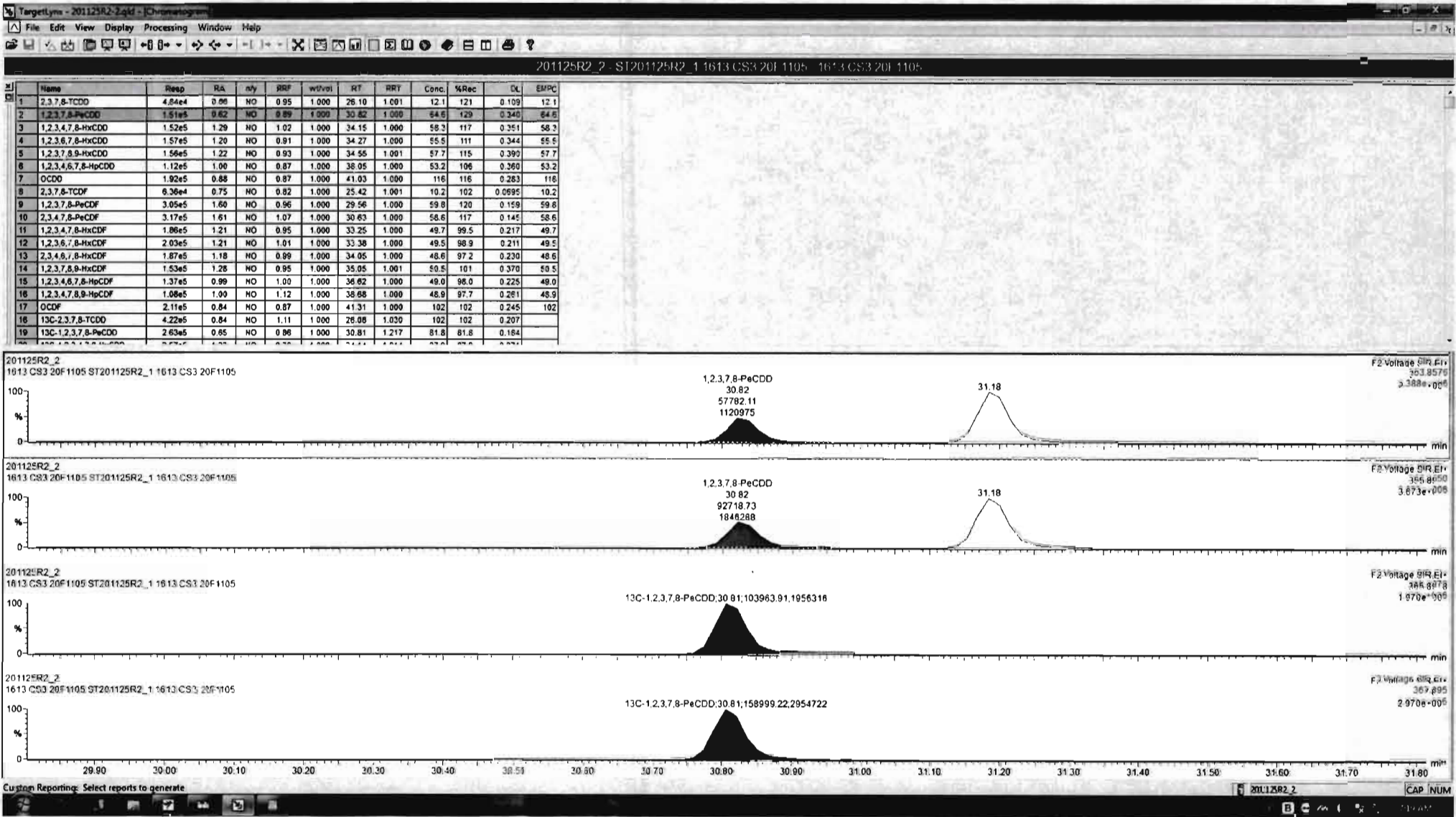


F2:Voltage SIR,EI+
365.8978
1.970e+006

201125R2_2



F2:Voltage SIR,EI+
367.895
2.970e+006



Dataset: Untitled

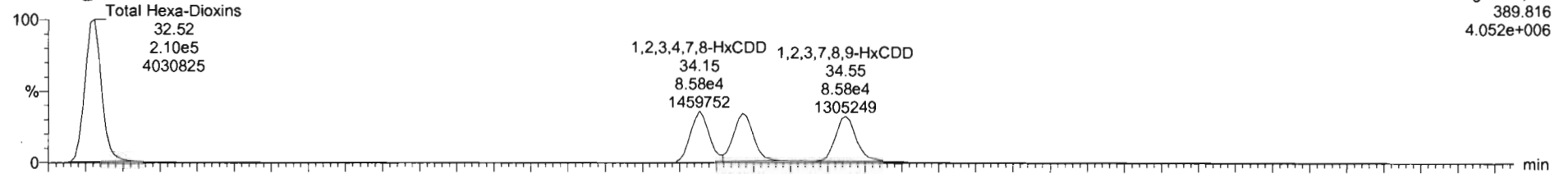
Last Altered: Thursday, November 26, 2020 07:16:09 Pacific Standard Time

Printed: Thursday, November 26, 2020 07:16:12 Pacific Standard Time

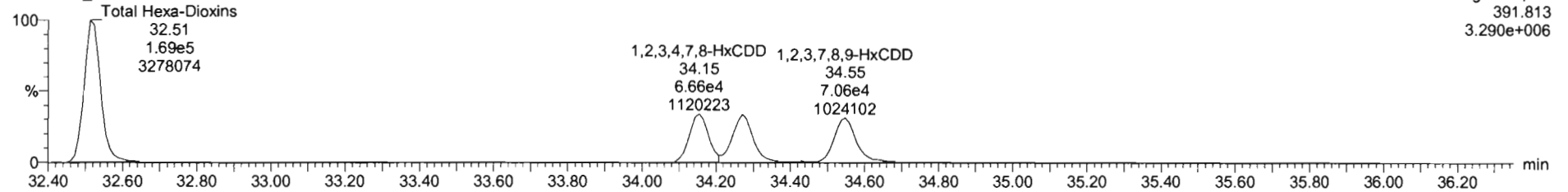
Name: 201125R2_2, Date: 25-Nov-2020, Time: 22:16:41, ID: ST201125R2_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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

201125R2_2

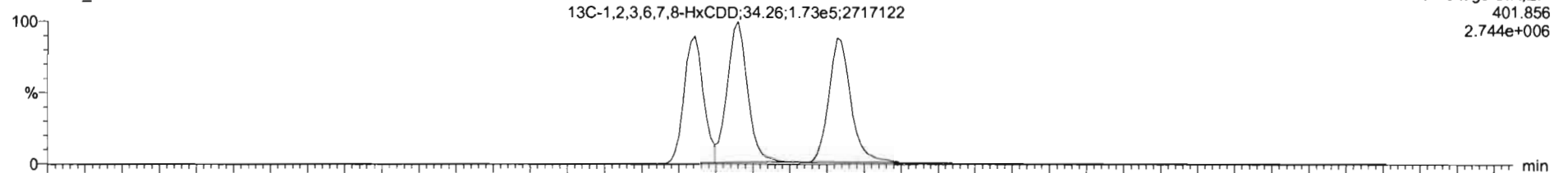


201125R2_2

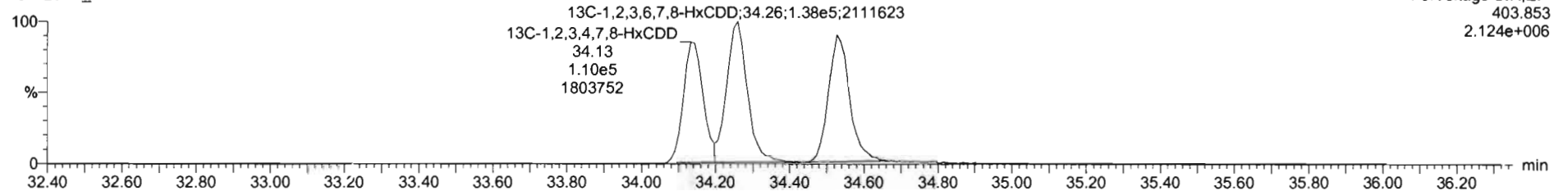


13C-1,2,3,4,7,8-HxCDD

201125R2_2



201125R2_2



Dataset: Untitled

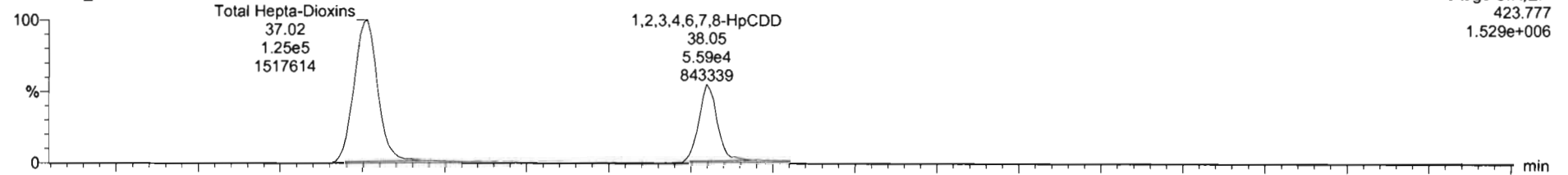
Last Altered: Thursday, November 25, 2020 07:16:09 Pacific Standard Time

Printed: Thursday, November 26, 2020 07:16:12 Pacific Standard Time

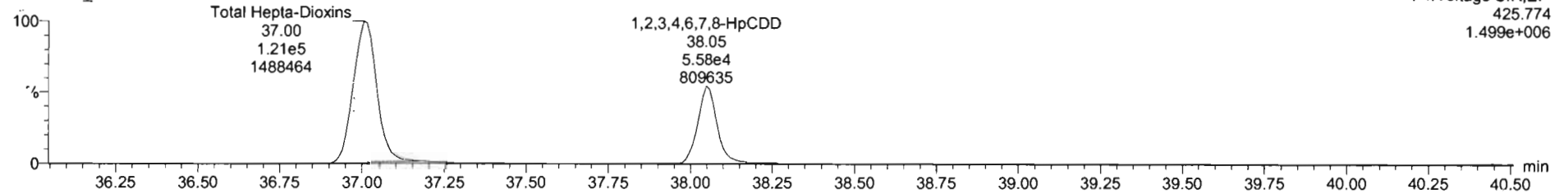
Name: 201125R2_2, Date: 25-Nov-2020, Time: 22:16:41, ID: ST201125R2_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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

201125R2_2

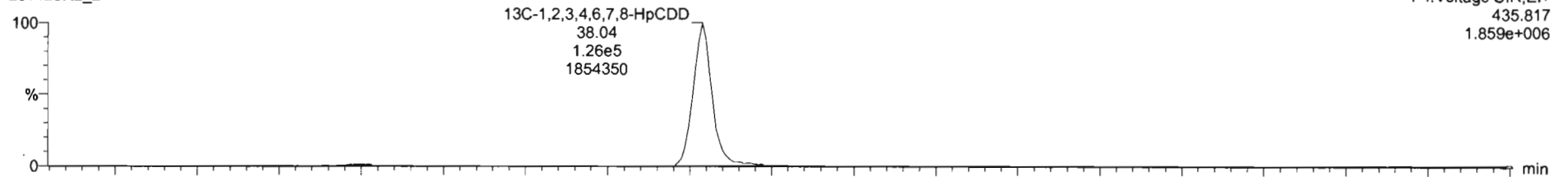


201125R2_2

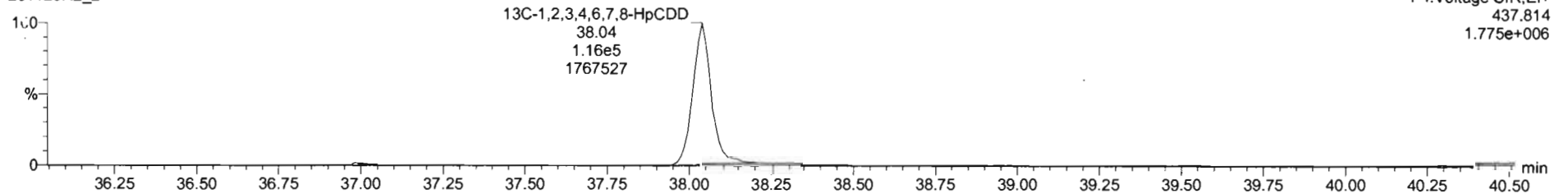


13C-1,2,3,4,6,7,8-HpCDD

201125R2_2



201125R2_2

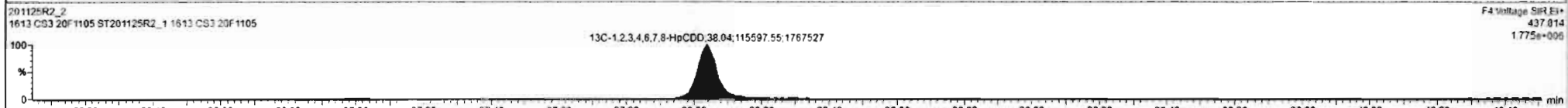
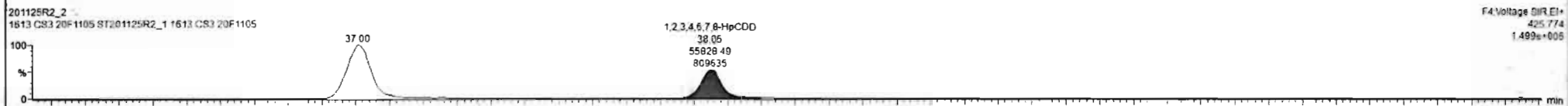
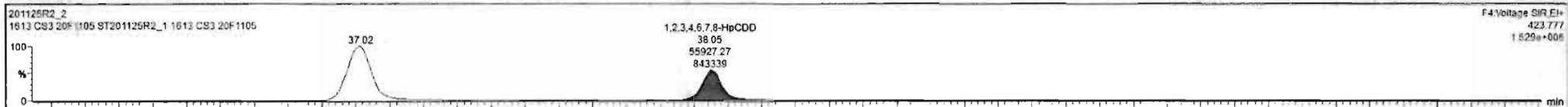


TargetLynx - 201125R2_2.qld - [Chromatogram]

File Edit View Display Processing Window Help

201125R2_2 - ST201125R2_1 1613 CS3 20F 1105 1613 CS3 20F 1105

#	Name	Resp	RA	isy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	4.84e4	0.86	NO	0.95	1.000	26.10	1.001	12.1	121	0.109	12.1
2	1,2,3,7,8-PeCDD	1.51e5	0.62	NO	0.89	1.000	30.82	1.001	64.6	129	0.340	64.6
3	1,2,3,4,7,8-HxCDD	1.52e5	1.29	NO	1.02	1.000	34.15	1.000	58.3	117	0.351	58.3
4	1,2,3,6,7,8-HxCDD	1.57e5	1.20	NO	0.91	1.000	34.27	1.000	55.5	111	0.344	55.5
5	1,2,3,7,8,9-HxCDD	1.56e5	1.22	NO	0.93	1.000	34.55	1.001	57.7	115	0.390	57.7
6	1,2,3,4,6,7,8-HpCDD	1.12e4	1.00	NO	0.87	1.000	38.05	1.000	54.0	108	0.357	54.0
7	OCDD	1.92e5	0.88	NO	0.87	1.000	41.03	1.001	116	116	0.283	116
8	2,3,7,8-TCDF	6.38e4	0.75	NO	0.82	1.000	25.42	1.001	10.2	102	0.0696	10.2
9	1,2,3,7,8-PeCDF	3.05e5	1.60	NO	0.96	1.000	29.56	1.001	59.8	120	0.159	59.8
10	2,3,4,7,8-PeCDF	3.17e5	1.61	NO	1.07	1.000	30.63	1.000	56.6	117	0.145	56.6
11	1,2,3,4,7,8-HxCDF	1.86e5	1.21	NO	0.95	1.000	33.25	1.000	49.7	99.5	0.217	49.7
12	1,2,3,6,7,8-HxCDF	2.03e5	1.21	NO	1.01	1.000	33.38	1.000	49.5	98.9	0.211	49.5
13	2,3,4,6,7,8-HxCDF	1.87e5	1.18	NO	0.99	1.000	34.05	1.000	48.6	97.2	0.230	48.6
14	1,2,3,7,8,9-HxCDF	1.53e5	1.28	NO	0.95	1.000	35.05	1.001	50.5	101	0.370	50.5
15	1,2,3,4,6,7,8-HpCDF	1.37e5	0.98	NO	1.00	1.000	36.82	1.000	49.0	96.0	0.225	49.0
16	1,2,3,4,7,8,9-HpCDF	1.08e5	1.00	NO	1.12	1.000	38.68	1.000	48.9	97.7	0.261	48.9
17	OCDF	2.11e5	0.84	NO	0.87	1.000	41.31	1.001	102	102	0.245	102
18	13C-2,3,7,8-TCDD	4.22e5	0.84	NO	1.11	1.000	26.08	1.030	102	102	0.207	
19	13C-1,2,3,7,8-PeCDD	2.63e5	0.65	NO	0.86	1.000	30.81	1.217	81.8	81.8	0.184	



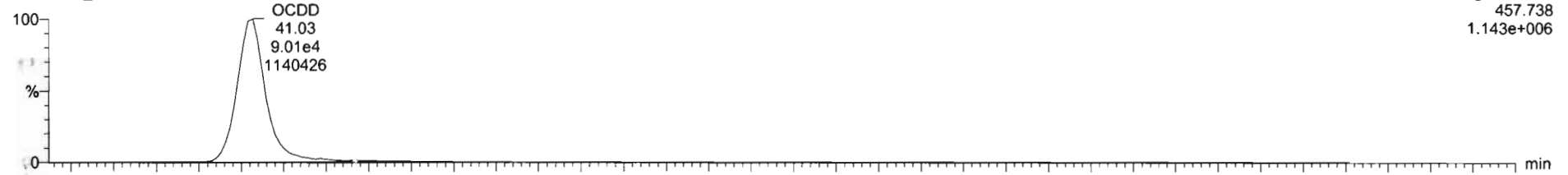
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Last Altered: Thursday, November 26, 2020 07:16:09 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:16:12 Pacific Standard Time

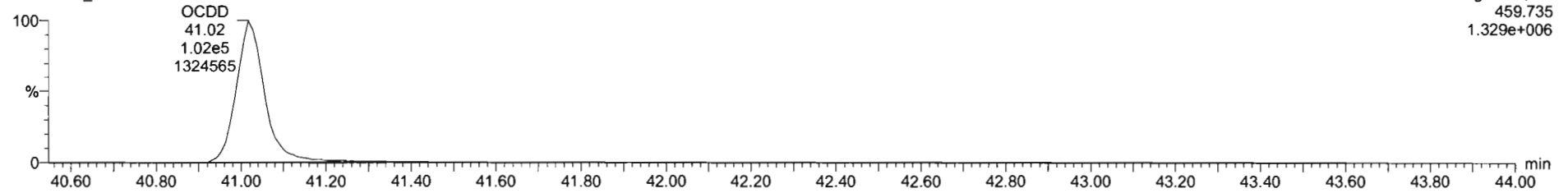
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OCDD

201125R2_2

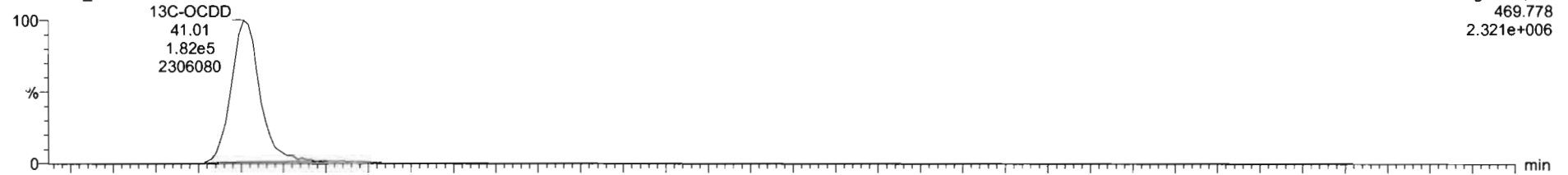


201125R2_2

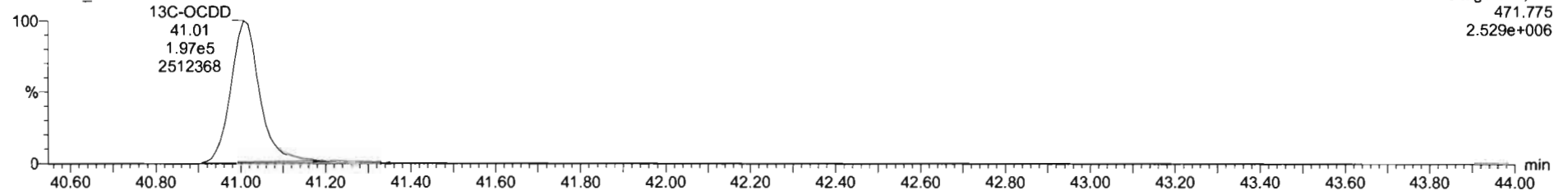


13C-OCDD

201125R2_2



201125R2_2

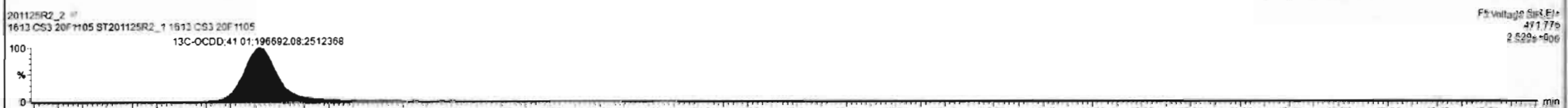
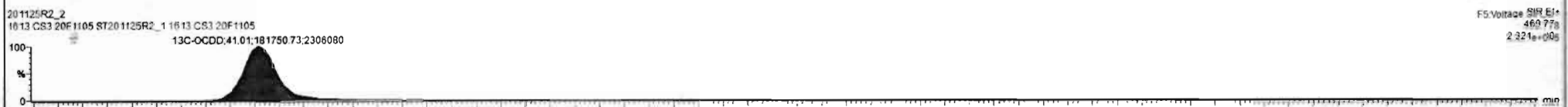


TargetLynx - 201125R2_2.qld F - [Chromatogram]

File Edit View Display Processing Window Help

201125R2_2_1613 CS3 20F 1105_1613 CS3 20F 1105

#	Name	Resp	RA	ny	RRF	wt%nl	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	4.84e4	0.66	NO	0.95	1.000	26.10	1.001	12.1	121	0.109	12.1
2	1,2,3,7,8-PeCDD	1.51e5	0.62	NO	0.89	1.000	30.82	1.001	64.8	129	0.340	64.6
3	1,2,3,4,7,8-HxCDD	1.52e5	1.29	NO	1.02	1.000	34.15	1.000	58.3	117	0.351	58.3
4	1,2,3,6,7,8-HxCDD	1.57e5	1.20	NO	0.91	1.000	34.27	1.000	55.5	111	0.344	55.5
5	1,2,3,7,8,9-HxCDD	1.56e5	1.22	NO	0.93	1.000	34.55	1.001	57.7	115	0.290	57.7
6	1,2,3,4,6,7,8-HpCDD	1.12e5	1.00	NO	0.87	1.000	38.05	1.000	54.0	108	0.357	54.0
7	OCDD	1.99e5	0.88	NO	0.87	1.000	41.03	1.001	113	113	0.283	113
8	2,3,7,8-TCDF	6.36e4	0.75	NO	0.82	1.000	25.42	1.001	10.2	102	0.0695	10.2
9	1,2,3,7,8-PeCDF	3.05e5	1.60	NO	0.96	1.000	29.56	1.001	59.8	120	0.159	59.8
10	2,3,4,7,8-PeCDF	3.17e5	1.61	NO	1.07	1.000	30.63	1.000	56.6	117	0.145	56.6
11	1,2,3,4,7,8-HxCDF	1.86e5	1.21	NO	0.95	1.000	33.25	1.000	49.7	99.5	0.217	49.7
12	1,2,3,6,7,8-HxCDF	2.03e5	1.21	NO	1.01	1.000	33.38	1.000	49.5	98.9	0.211	49.5
13	2,3,4,6,7,8-HxCDF	1.87e5	1.16	NO	0.99	1.000	34.05	1.000	48.6	97.2	0.230	48.6
14	1,2,3,7,8,9-HxCDF	1.53e5	1.28	NO	0.95	1.000	35.05	1.001	50.5	101	0.370	50.5
15	1,2,3,4,6,7,8-HpCDF	1.37e5	0.96	NO	1.00	1.000	36.62	1.000	49.0	98.0	0.225	49.0
16	1,2,3,4,7,8,9-HpCDF	1.08e5	1.00	NO	1.12	1.000	38.66	1.000	48.9	97.7	0.261	48.9
17	OCDF	2.11e5	0.84	NO	0.87	1.000	41.31	1.001	102	102	0.245	102
18	13C-2,3,7,8-TCDD	4.22e5	0.64	NO	1.11	1.000	26.08	1.030	102	102	0.207	
19	13C-1,2,3,7,8-PeCDD	2.63e5	0.65	NO	0.86	1.000	30.81	1.217	81.8	81.8	0.184	

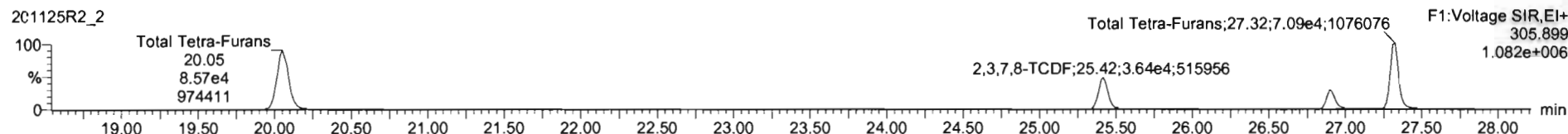
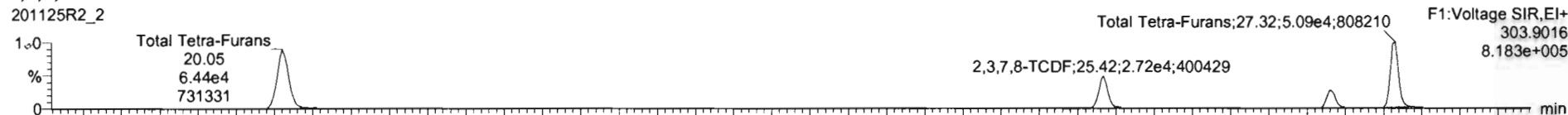


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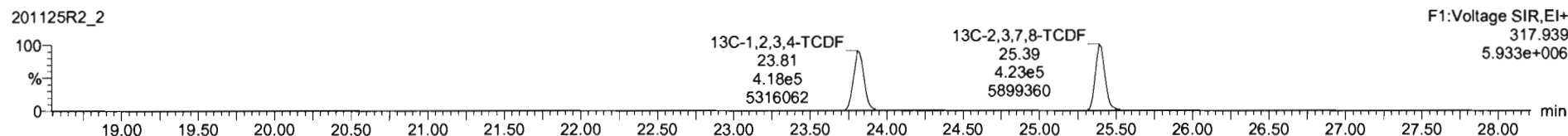
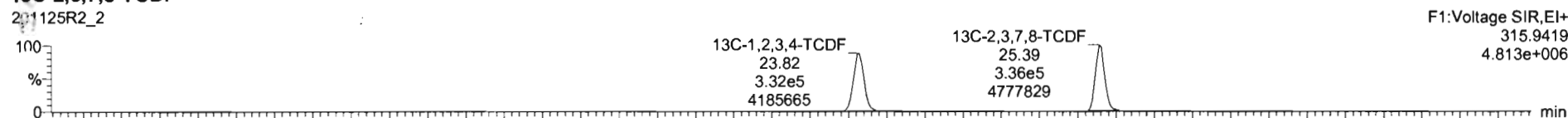
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Printed: Thursday, November 26, 2020 07:16:12 Pacific Standard Time

Name: 201125R2_2, Date: 25-Nov-2020, Time: 22:16:41, ID: ST201125R2_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

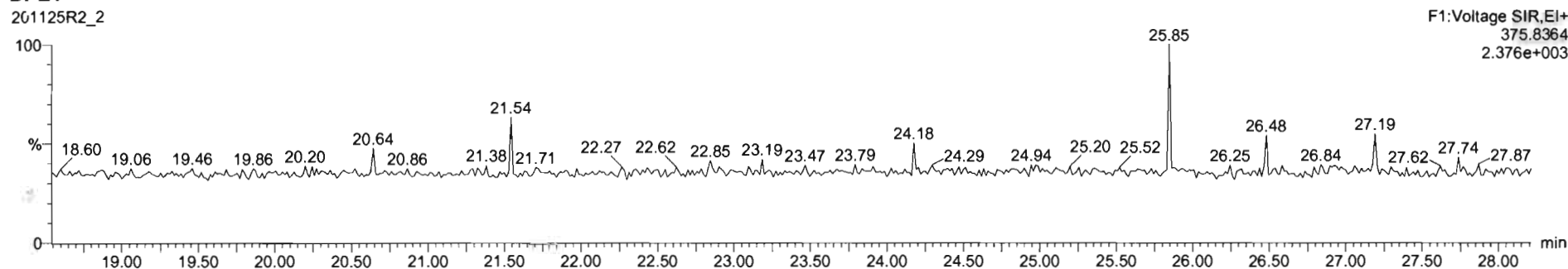
2,3,7,8-TCDF



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



DPE1



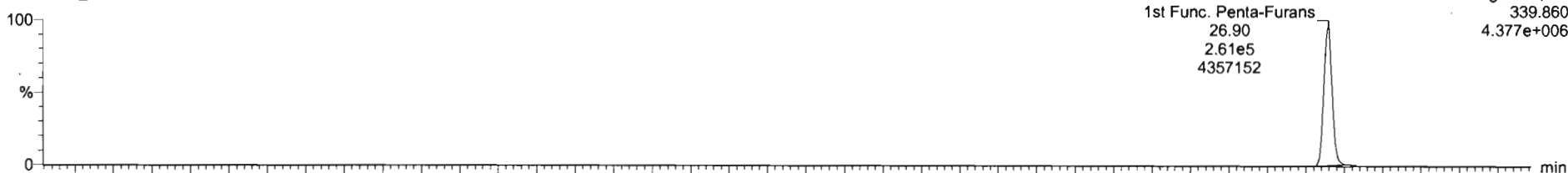
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Printed: Thursday, November 26, 2020 07:16:12 Pacific Standard Time

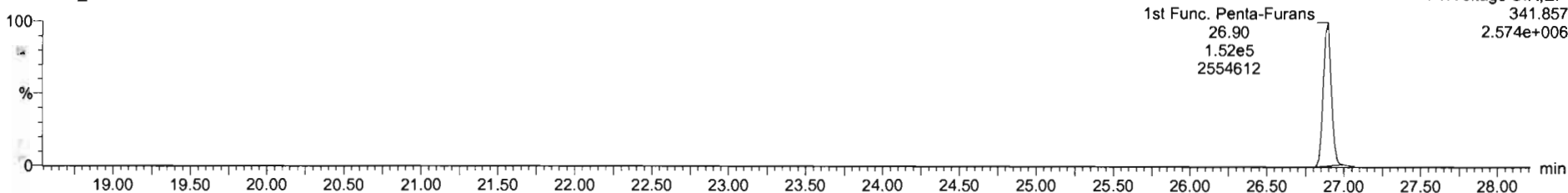
Name: 201125R2_2, Date: 25-Nov-2020, Time: 22:16:41, ID: ST201125R2_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

1st Func. Penta-Furans

201125R2_2

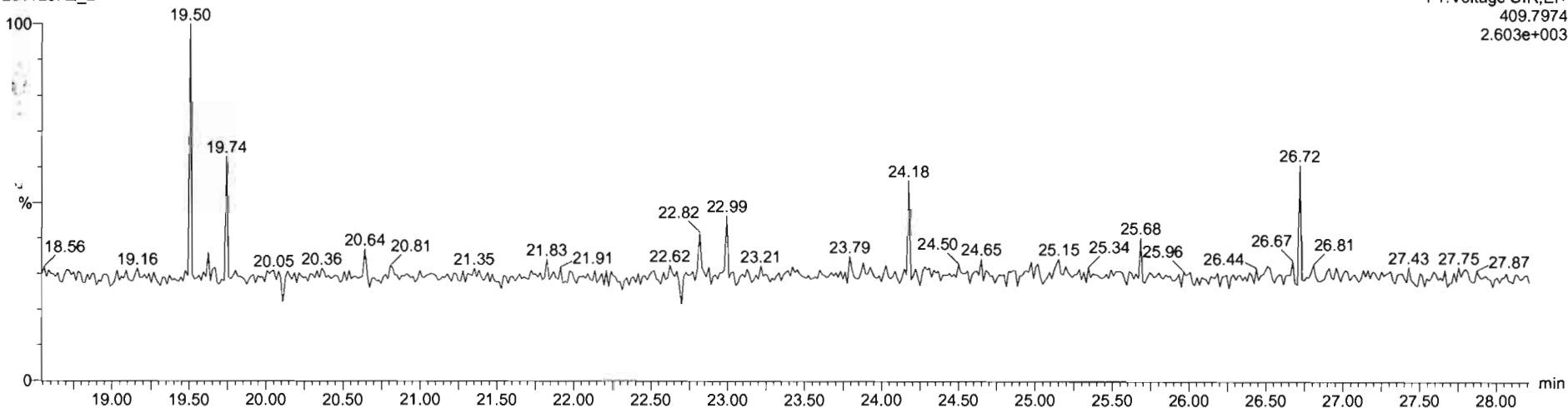


201125R2_2



DPE6

201125R2_2



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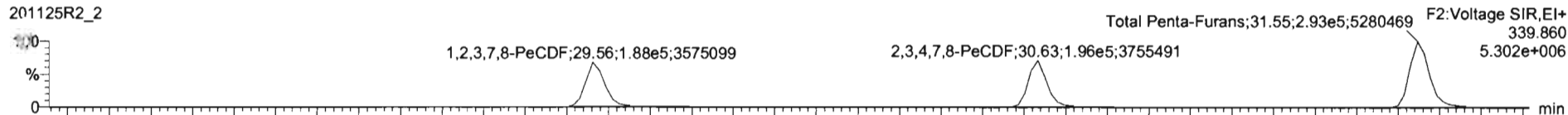
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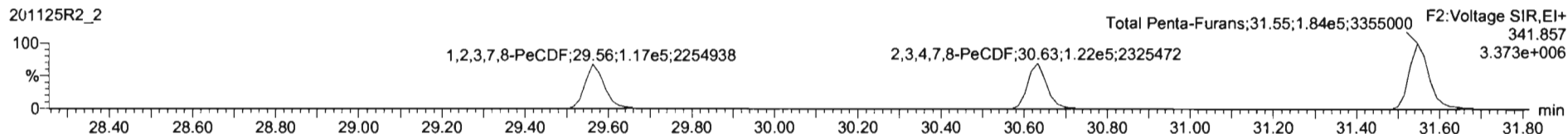
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1,2,3,7,8-PeCDF

201125R2_2

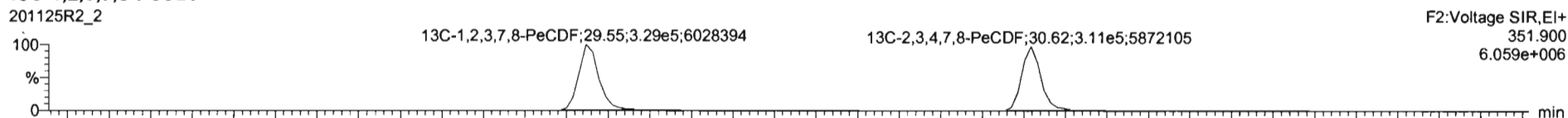


201125R2_2

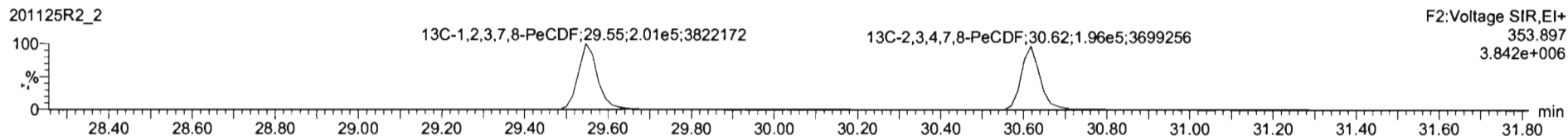


13C-1,2,3,7,8-PeCDF

201125R2_2

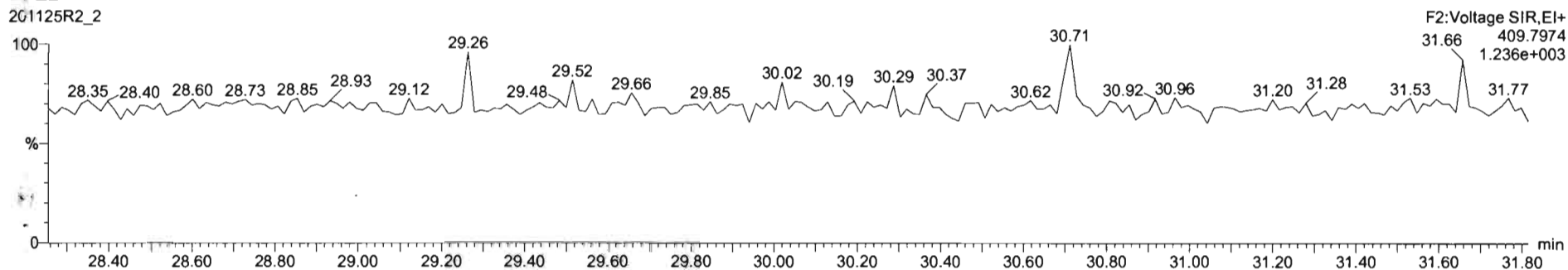


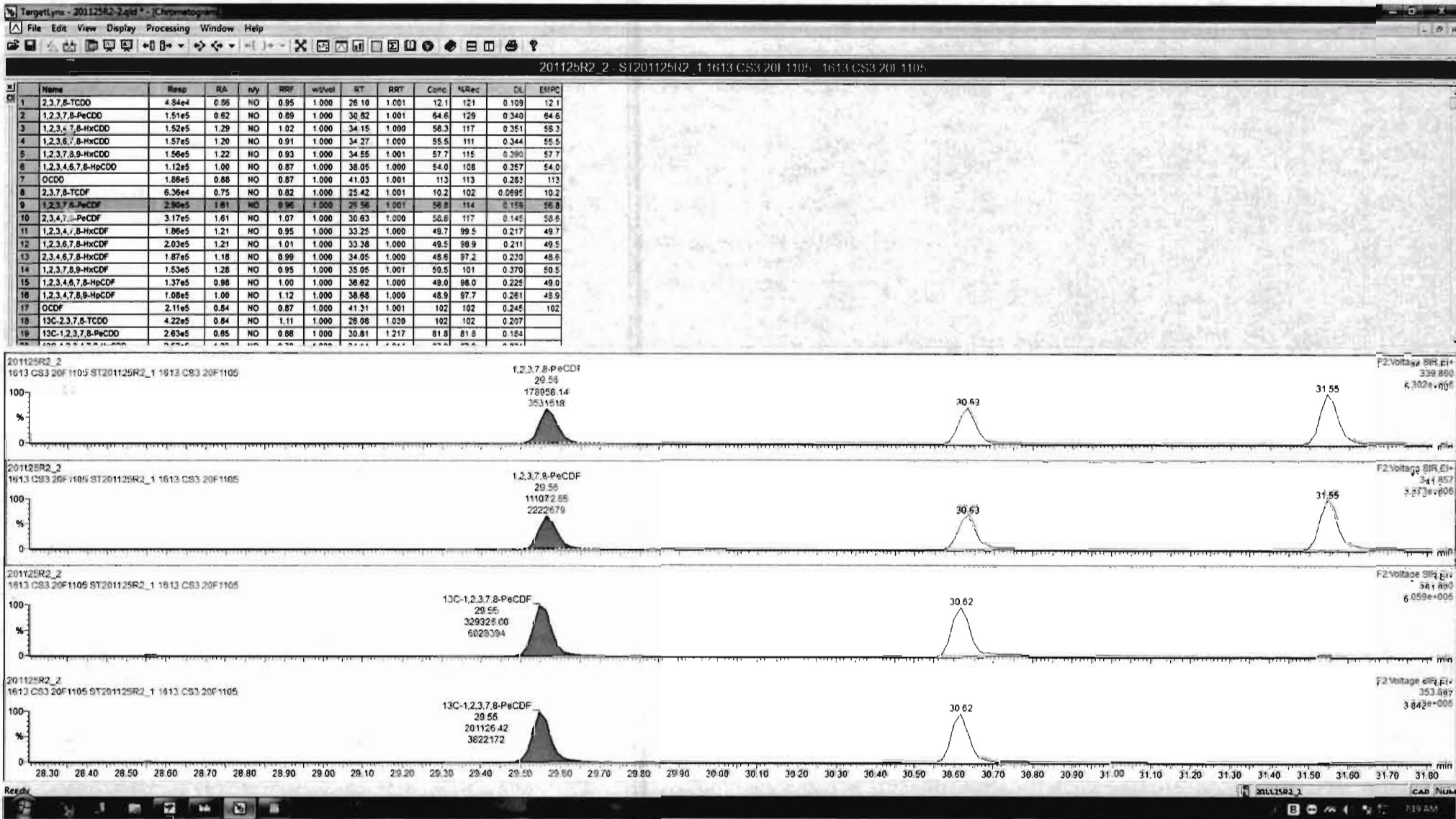
201125R2_2



DPE2

201125R2_2





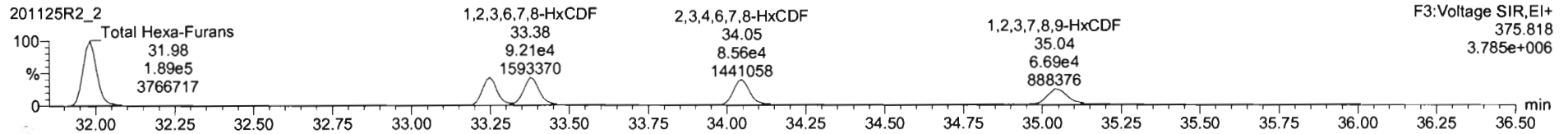
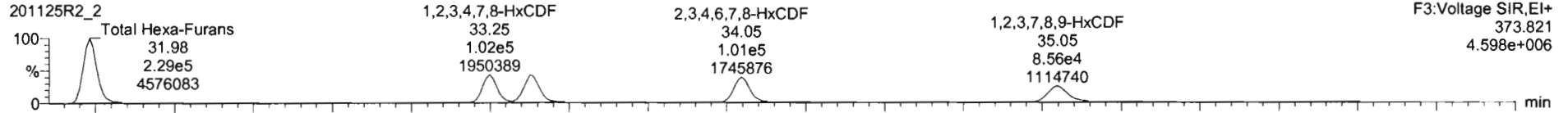
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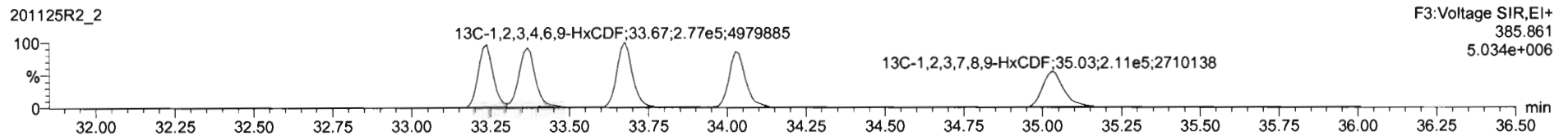
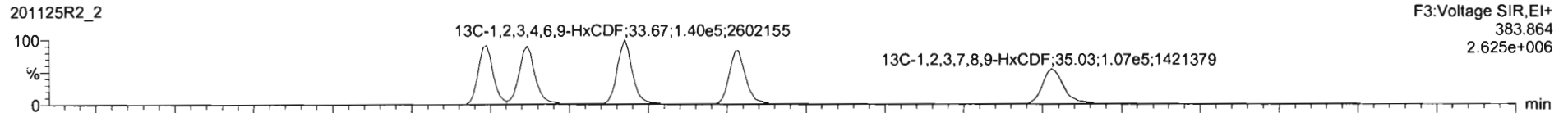
Printed: Thursday, November 26, 2020 07:16:12 Pacific Standard Time

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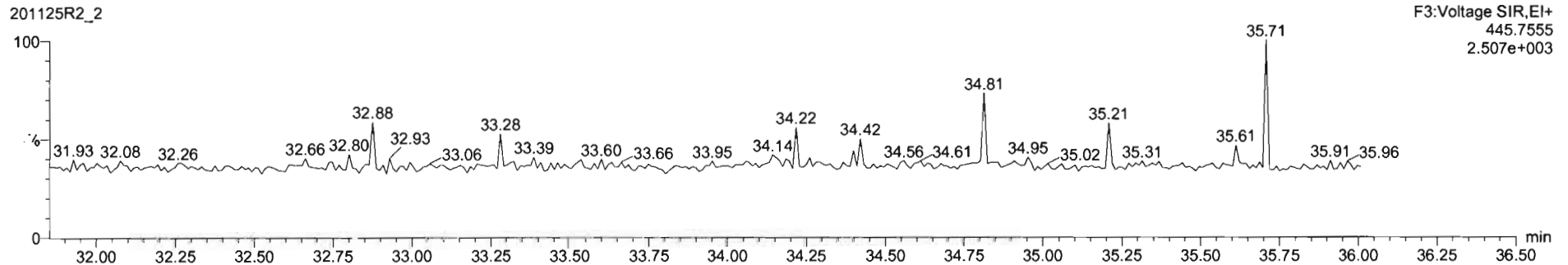
1,2,3,4,7,8-HxCDF



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



DPE3



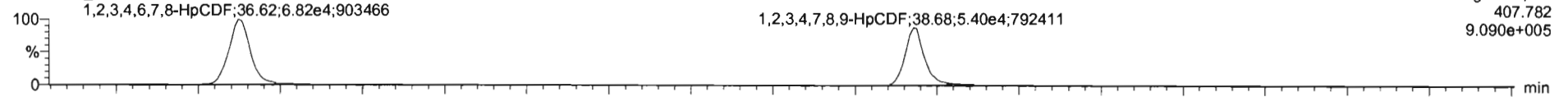
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Last Altered: Thursday, November 26, 2020 07:16:09 Pacific Standard Time
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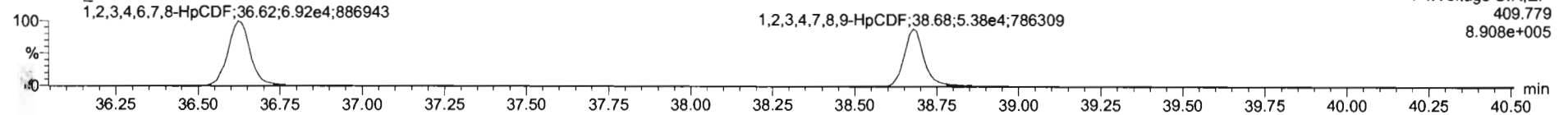
1,2,3,4,6,7,8-HpCDF

201125R2_2



F4: Voltage SIR, EI+
407.782
9.090e+005

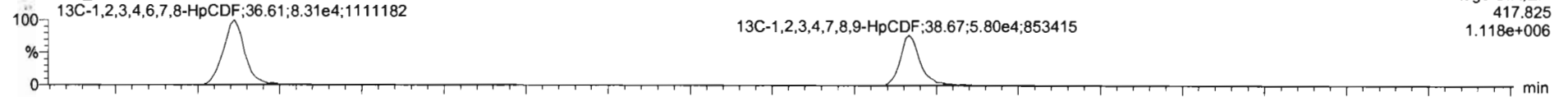
201125R2_2



F4: Voltage SIR, EI+
409.779
8.908e+005

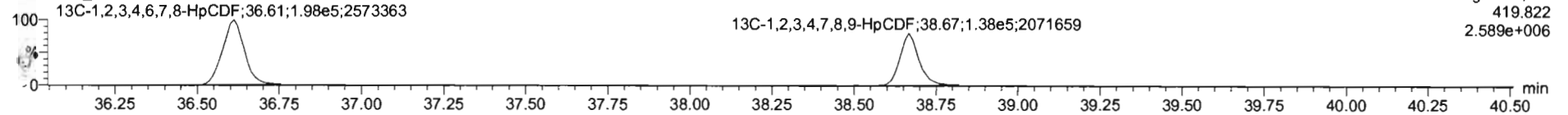
13C-1,2,3,4,6,7,8-HpCDF

201125R2_2



F4: Voltage SIR, EI+
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1.118e+006

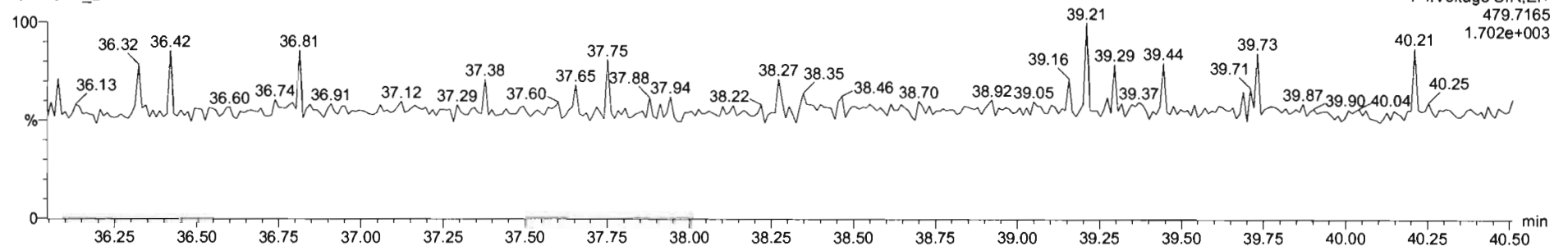
201125R2_2



F4: Voltage SIR, EI+
419.822
2.589e+006

DPE4

201125R2_2



F4: Voltage SIR, EI+
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Dataset: Untitled

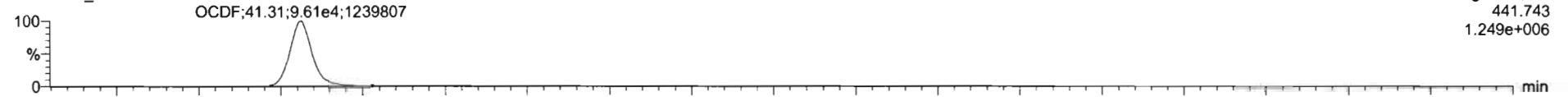
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Printed: Thursday, November 26, 2020 07:16:12 Pacific Standard Time

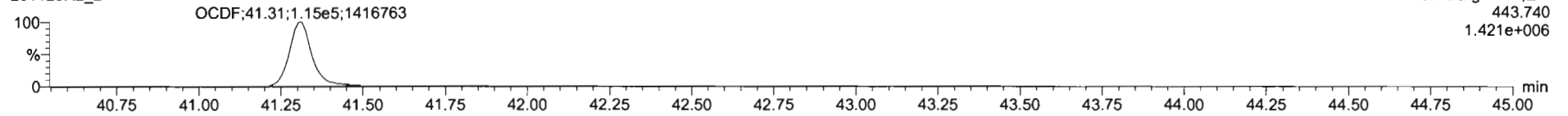
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C1;DF

201125R2_2

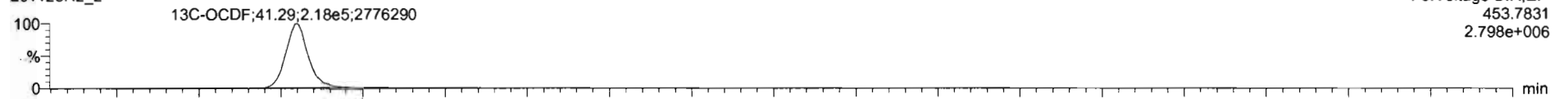


201125R2_2

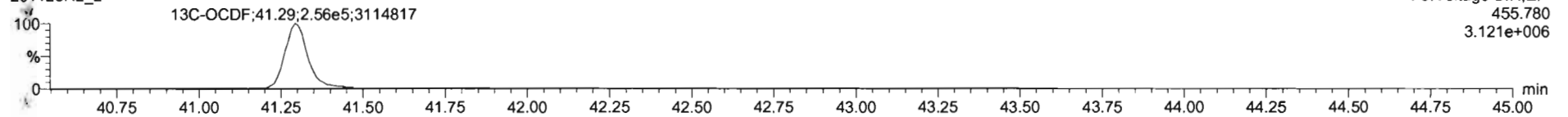


13C-OCDF

201125R2_2

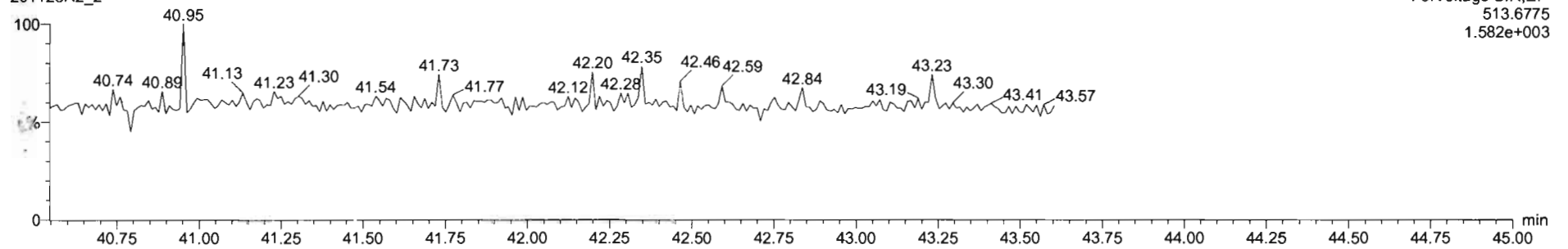


201125R2_2

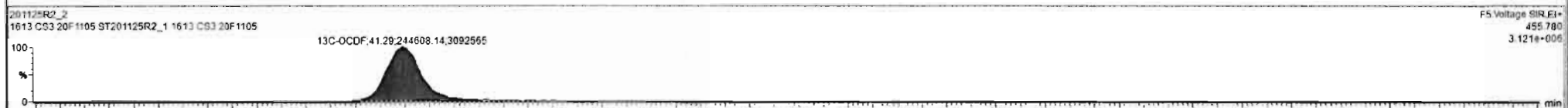
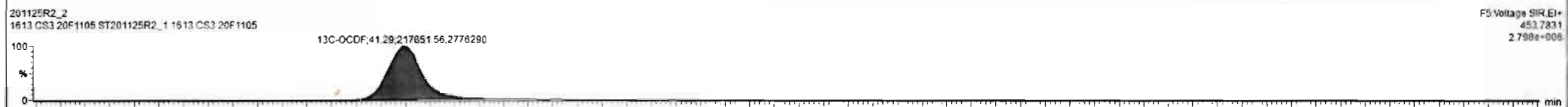
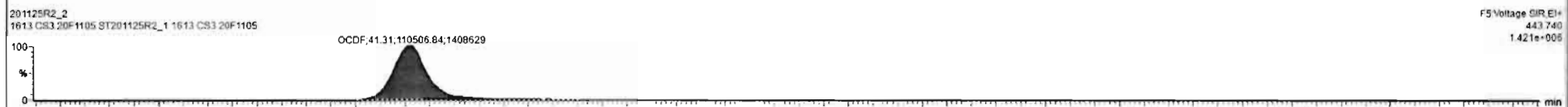
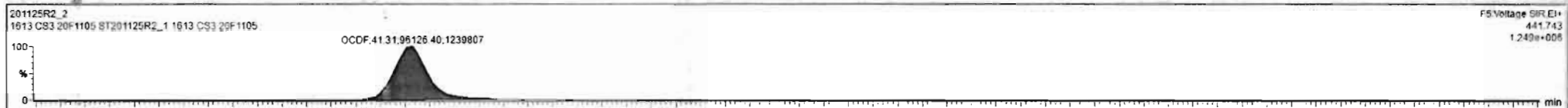


DPE5

201125R2_2



Name	Resp	BA	ny	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC	
1	2,3,7,8-TCDD	4.84e4	0.88	NO	0.95	1.000	26.10	1.001	12.1	121	0.109	12.1
2	1,2,3,7,8-PeCDD	1.51e5	0.62	NO	0.89	1.000	30.82	1.001	64.6	129	0.340	64.6
3	1,2,3,4,7,8-HxCDD	1.52e5	1.29	NO	1.02	1.000	34.15	1.000	56.3	117	0.351	56.3
4	1,2,3,6,7,8-HxCDD	1.57e5	1.20	NO	0.91	1.000	34.27	1.000	55.5	111	0.344	55.5
5	1,2,3,7,8,9-HxCDD	1.56e5	1.22	NO	0.93	1.000	34.55	1.001	57.7	115	0.290	57.7
6	1,2,3,4,6,7,8-HpCDD	1.12e5	1.00	NO	0.87	1.000	38.05	1.000	54.0	108	0.357	54.0
7	OCDD	1.86e5	0.88	NO	0.87	1.000	41.03	1.001	113	113	0.283	113
8	2,3,7,8-TCDF	6.36e4	0.75	NO	0.82	1.000	25.42	1.001	18.2	102	0.0695	10.2
9	1,2,3,7,8-PeCDF	2.90e5	1.61	NO	0.96	1.000	29.56	1.001	58.8	114	0.159	58.8
10	2,3,4,7,8-PeCDF	3.17e5	1.61	NO	1.07	1.000	30.63	1.000	58.6	117	0.145	58.6
11	1,2,3,4,7,8-HxCDF	1.86e5	1.21	NO	0.95	1.000	33.25	1.000	49.7	99.5	0.217	49.7
12	1,2,3,6,7,8-HxCDF	2.03e5	1.21	NO	1.01	1.000	33.38	1.000	49.5	98.8	0.211	49.5
13	2,3,4,6,7,8-HxCDF	1.87e5	1.16	NO	0.99	1.000	34.05	1.000	46.6	87.2	0.230	46.6
14	1,2,3,7,8,9-HxCDF	1.53e5	1.28	NO	0.95	1.000	35.05	1.001	50.5	101	0.370	50.5
15	1,2,3,4,6,7,8-HpCDF	1.37e5	0.98	NO	1.00	1.000	36.82	1.000	49.0	98.0	0.225	49.0
16	1,2,3,4,7,8,9-HpCDF	1.05e5	1.00	NO	1.12	1.000	38.68	1.000	48.9	97.7	0.261	48.9
17	OCDF	2.87e5	0.87	NO	0.87	1.000	41.31	1.001	103	103	0.251	103
18	13C-2,3,7,8-TCDD	4.22e5	0.84	NO	1.11	1.000	26.08	1.030	102	102	0.207	
19	13C-1,2,3,7,8-PeCDD	2.63e5	0.65	NO	0.88	1.000	30.81	1.217	81.8	81.8	0.184	

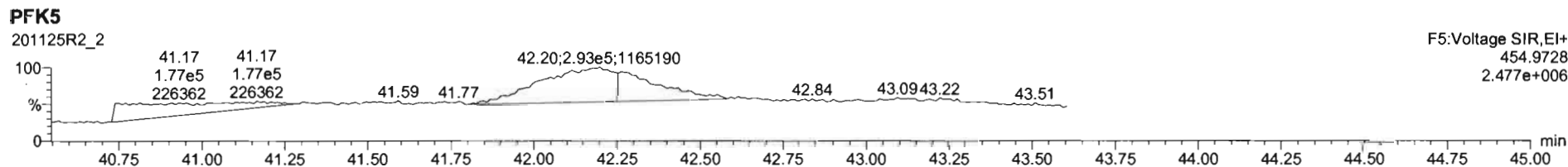
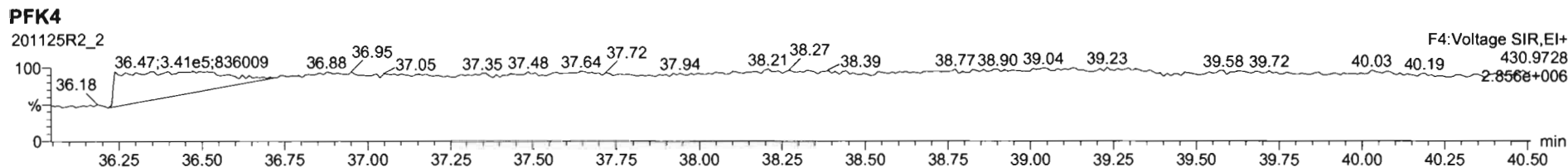
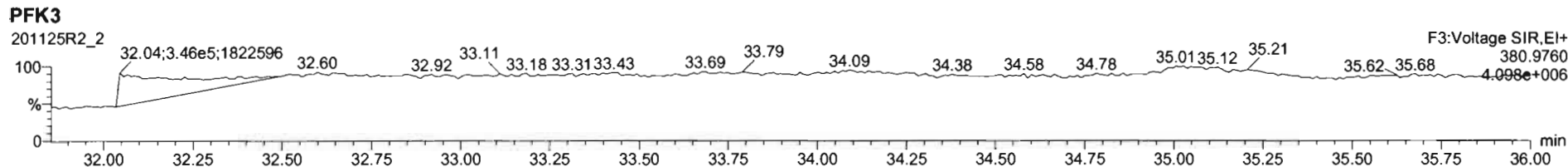
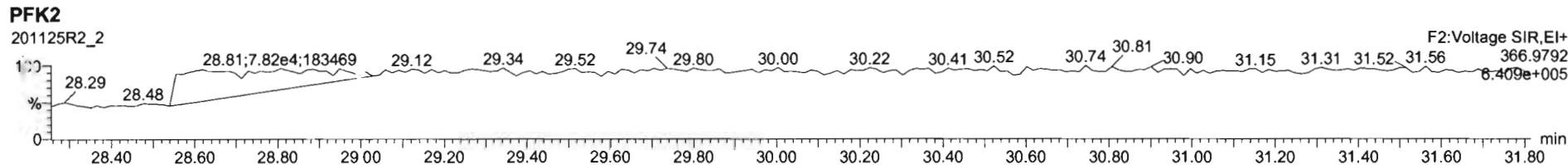
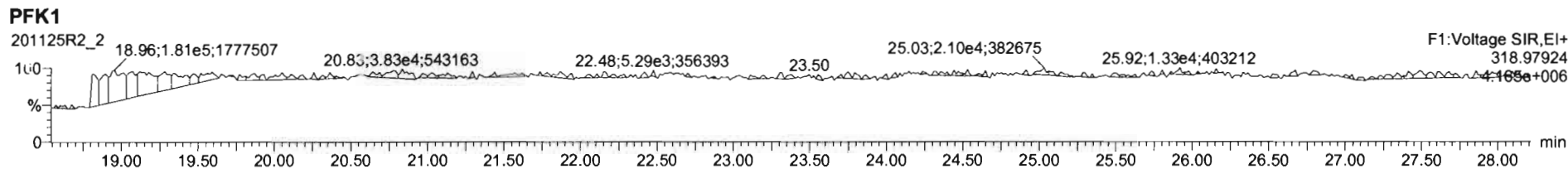


Dataset: Untitled

Last Altered: Thursday, November 26, 2020 07:16:09 Pacific Standard Time

Printed: Thursday, November 26, 2020 07:16:12 Pacific Standard Time

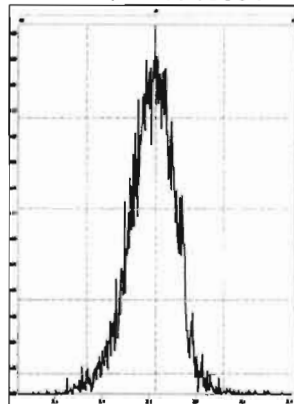
Name: 201125R2_2, Date: 25-Nov-2020, Time: 22:16:41, ID: ST201125R2_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105



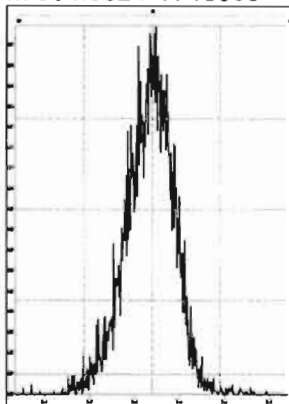
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:02:03 Pacific Standard Time

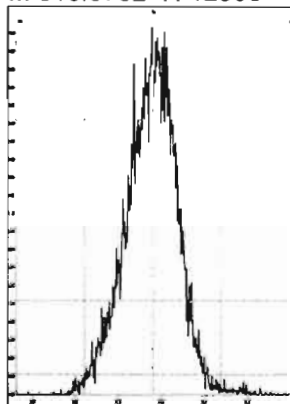
M 292.9824 R 13584



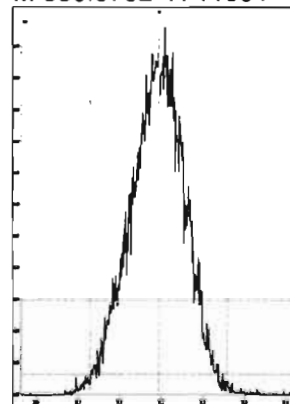
M 304.9824 R 13089



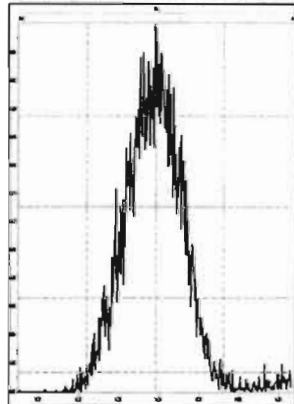
M 318.9792 R 12503



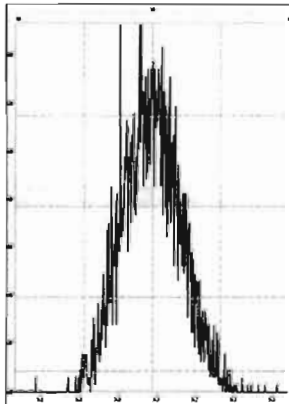
M 330.9792 R 11364



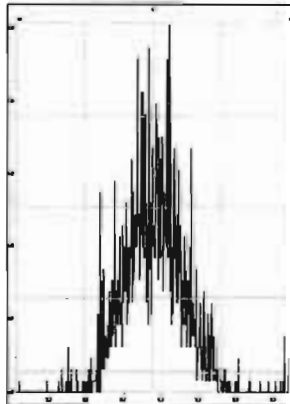
M 342.9792 R 11064



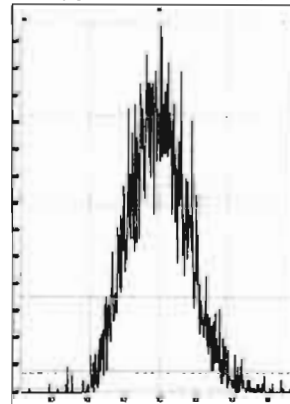
M 354.9792 R 10822



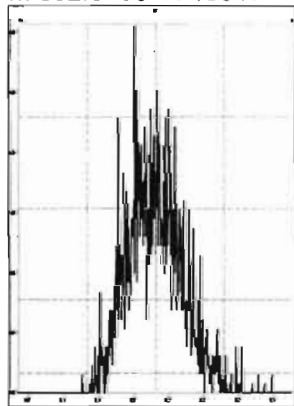
M 366.9792 R 11734



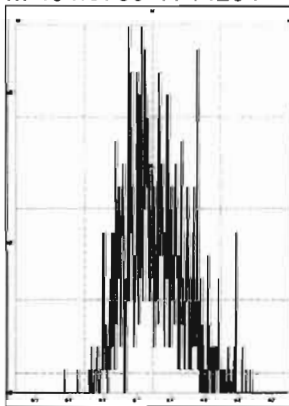
M 380.9760 R 11311



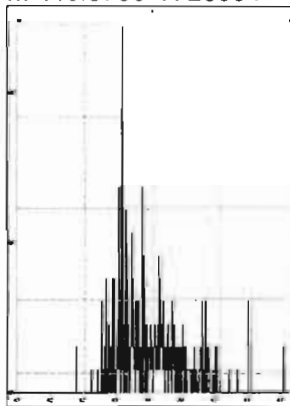
M 392.9760 R 13017



M 404.9760 R 14284



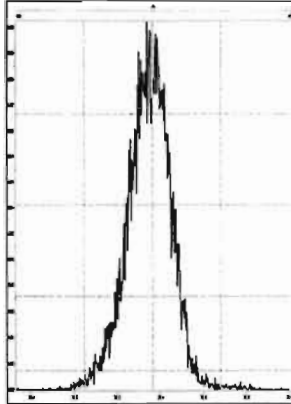
M 416.9760 R 26884



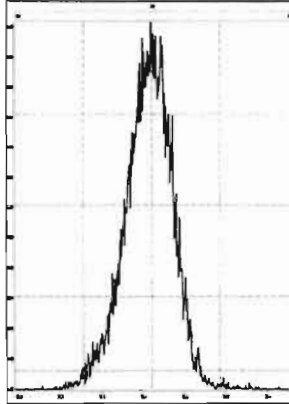
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:02:29 Pacific Standard Time

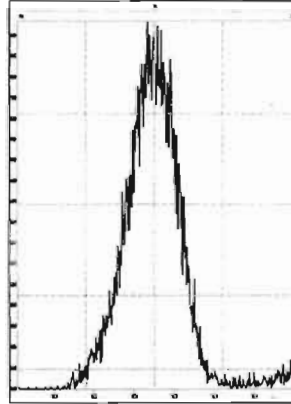
M 318.9792 R 14123



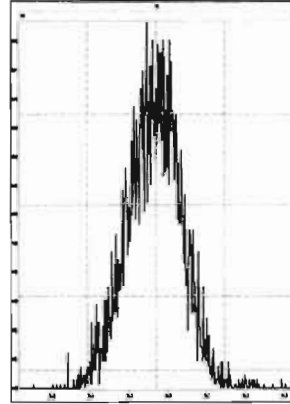
M 330.9792 R 12439



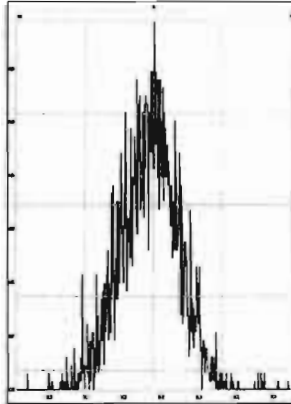
M 342.9792 R 11573



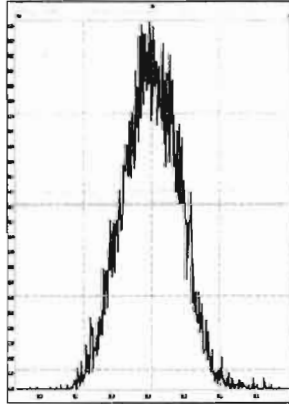
M 354.9792 R 12256



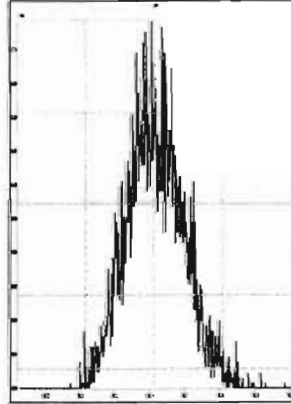
M 366.9792 R 12753



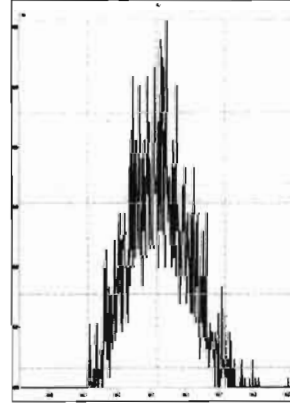
M 380.9760 R 11063



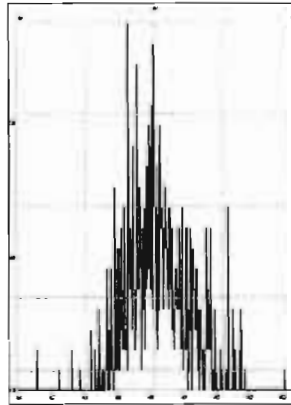
M 392.9760 R 11791



M 404.9760 R 12195



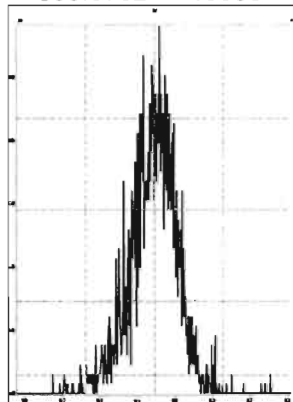
M 416.9760 R 16444



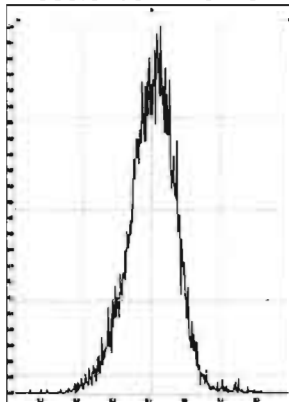
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:03:05 Pacific Standard Time

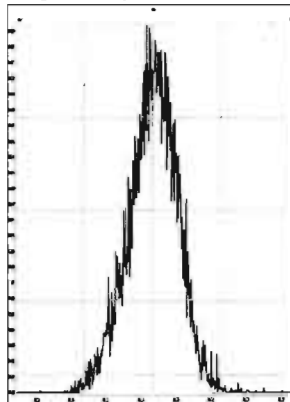
M 366.9792 R 13368



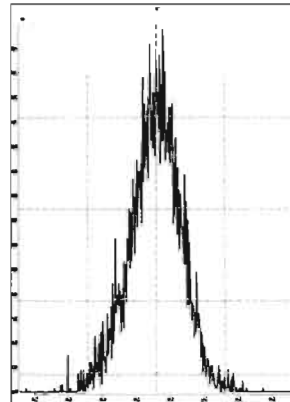
M 380.9760 R 13229



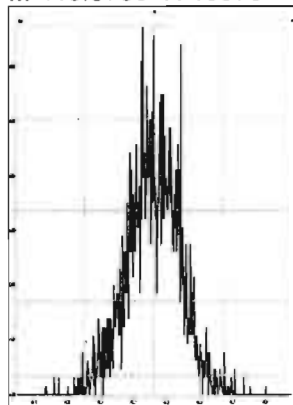
M 392.9760 R 12819



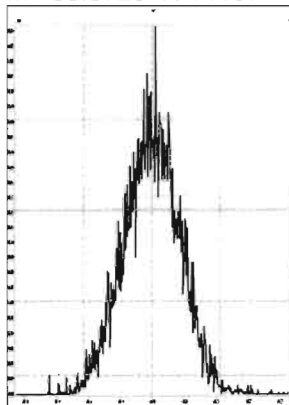
M 404.9760 R 13229



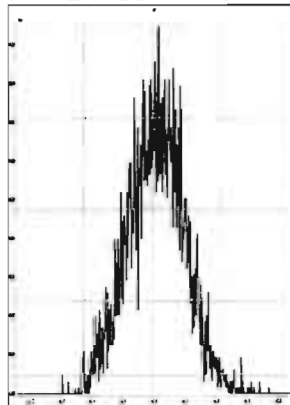
M 416.9760 R 13970



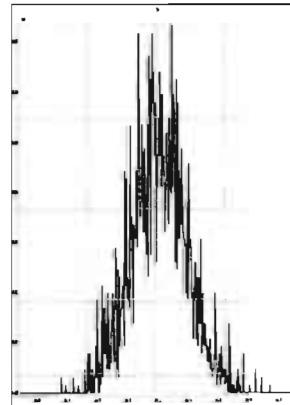
M 430.9728 R 11157



M 442.9728 R 10821



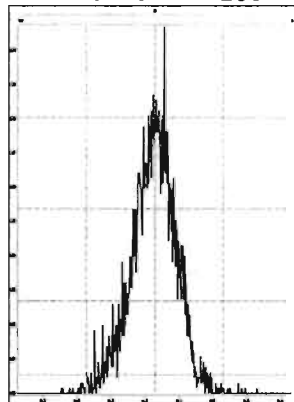
M 454.9728 R 11737



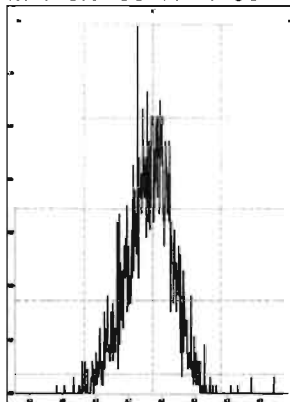
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:03:33 Pacific Standard Time

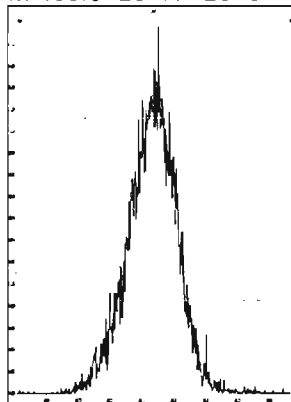
M 404.9760 R 14283



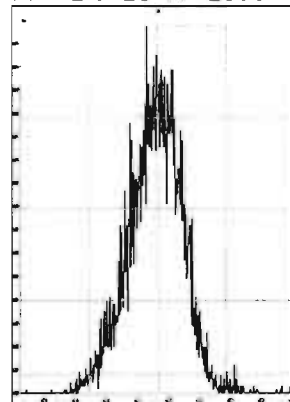
M 416.9760 R 14793



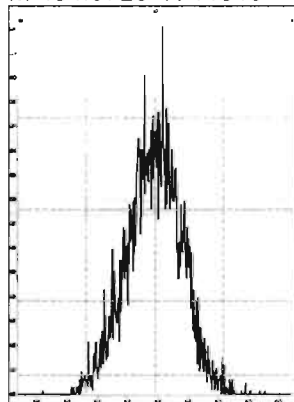
M 430.9728 R 12313



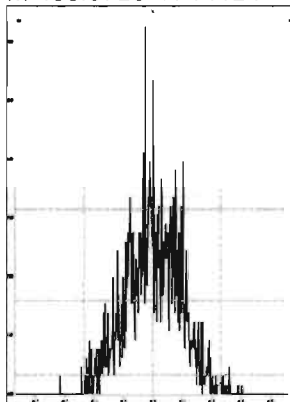
M 442.9728 R 12690



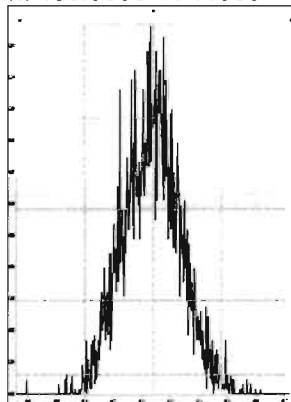
M 454.9728 R 11519



M 466.9728 R 14124



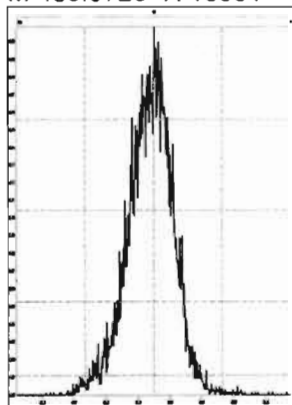
M 480.9696 R 11959



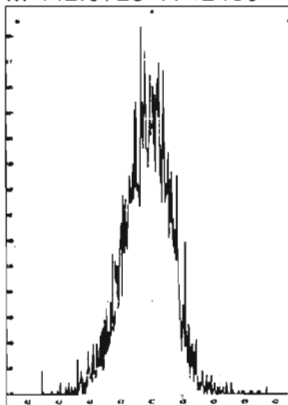
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:03:51 Pacific Standard Time

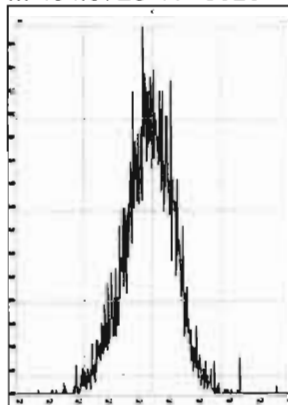
M 430.9728 R 13661



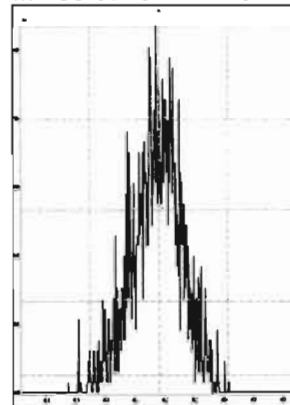
M 442.9728 R 12435



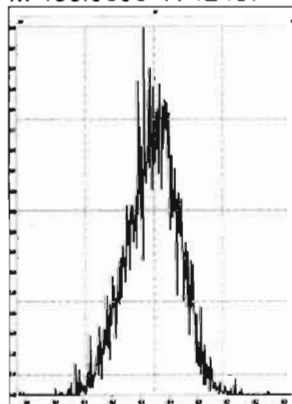
M 454.9728 R 13020



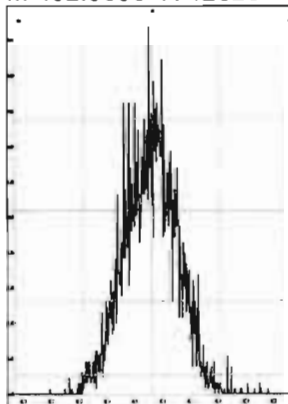
M 466.9728 R 12497



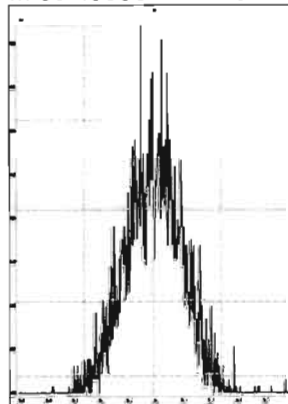
M 480.9696 R 12437



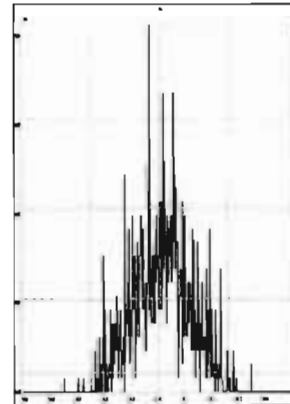
M 492.9696 R 12623



M 504.9696 R 13157



M 516.9697 R 15626



HKMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST201126 R1-1

Reviewed By: GRB 11/30/2022

Initials & Date

End Calibration ID: NA

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

	<u>Beg.</u>	<u>End</u>
Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
Integrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
GC Break <20%		<input type="checkbox"/> NA
8280 CS1 End Standard:		
- Ratios within limits, S/N <2.5x1, CS1 within 12 hours		<input type="checkbox"/> NA

Comments:
 (A) End res failed to print. manually processed following day with no changes on tune.

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-1.qld

Last Altered: Friday, November 27, 2020 13:14:10 Pacific Standard Time

Printed: Friday, November 27, 2020 13:15:05 Pacific Standard Time

HZ 11/27/2020
GRB 11/30/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201126R1_1, Date: 26-Nov-2020, Time: 08:35:39, ID: ST201126R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	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	7.10e4	6.07e5	0.79	NO	0.950	26.07	26.05	NO	1.001	1.001	12.300	123	NO
2	2 1,2,3,7,8-PeCDD	2.28e5	4.21e5	0.63	NO	0.885	30.78	30.79	NO	1.000	1.001	61.023	122	NO
3	3 1,2,3,4,7,8-HxCDD	2.18e5	3.78e5	1.24	NO	1.02	34.12	34.12	NO	1.000	1.000	56.727	113	NO
4	4 1,2,3,6,7,8-HxCDD	2.28e5	4.77e5	1.27	NO	0.915	34.24	34.24	NO	1.000	1.000	52.317	105	NO
5	5 1,2,3,7,8,9-HxCDD	2.27e5	4.51e5	1.24	NO	0.934	34.51	34.51	NO	1.000	1.000	53.775	108	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.67e5	3.75e5	1.02	NO	0.870	38.01	38.03	NO	1.000	1.001	51.237	102	NO
7	7 OCDD	2.72e5	5.77e5	0.88	NO	0.872	40.96	40.98	NO	1.000	1.001	108.07	108	NO
8	8 2,3,7,8-TCDF	8.30e4	1.06e6	0.73	NO	0.824	25.35	25.37	NO	1.000	1.001	9.4856	94.9	NO
9	9 1,2,3,7,8-PeCDF	4.26e5	7.81e5	1.61	NO	0.963	29.52	29.53	NO	1.000	1.001	56.640	113	NO
10	10 2,3,4,7,8-PeCDF	4.67e5	7.78e5	1.56	NO	1.07	30.59	30.59	NO	1.000	1.000	56.185	112	NO
11	11 1,2,3,4,7,8-HxCDF	2.55e5	5.59e5	1.18	NO	0.953	33.21	33.22	NO	1.000	1.000	47.888	95.8	NO
12	12 1,2,3,6,7,8-HxCDF	2.82e5	5.92e5	1.21	NO	1.01	33.33	33.35	NO	1.000	1.000	47.215	94.4	NO
13	13 2,3,4,6,7,8-HxCDF	2.55e5	5.42e5	1.19	NO	0.991	34.00	34.01	NO	1.000	1.001	47.375	94.8	NO
14	14 1,2,3,7,8,9-HxCDF	2.09e5	4.65e5	1.19	NO	0.951	34.99	35.02	NO	1.000	1.001	47.271	94.5	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.93e5	4.15e5	1.00	NO	0.999	36.57	36.59	NO	1.000	1.001	46.633	93.3	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.55e5	2.90e5	1.02	NO	1.12	38.63	38.65	NO	1.000	1.001	47.509	95.0	NO
17	17 OCDF	2.93e5	6.79e5	0.85	NO	0.868	41.27	41.26	NO	1.000	1.000	99.291	99.3	NO
18	18 13C-2,3,7,8-TCDD	6.07e5	5.43e5	0.83	NO	1.11	26.03	26.04	NO	1.030	1.030	100.83	101	NO
19	19 13C-1,2,3,7,8-PeCDD	4.21e5	5.43e5	0.64	NO	0.859	30.74	30.77	NO	1.216	1.218	90.355	90.4	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.78e5	5.93e5	1.32	NO	0.700	34.10	34.11	NO	1.014	1.014	91.204	91.2	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.77e5	5.93e5	1.31	NO	0.833	34.24	34.23	NO	1.018	1.018	96.562	96.6	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.51e5	5.93e5	1.25	NO	0.762	34.48	34.49	NO	1.025	1.026	99.799	99.8	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.75e5	5.93e5	1.05	NO	0.650	37.96	38.01	NO	1.129	1.130	97.477	97.5	NO
24	24 13C-OCDD	5.77e5	5.93e5	0.92	NO	0.539	40.92	40.96	NO	1.217	1.218	180.52	90.3	NO
25	25 13C-2,3,7,8-TCDF	1.06e6	1.04e6	0.77	NO	0.981	25.35	25.34	NO	1.003	1.003	104.40	104	NO
26	26 13C-1,2,3,7,8-PeCDF	7.81e5	1.04e6	1.61	NO	0.792	29.47	29.51	NO	1.166	1.168	95.168	95.2	NO
27	27 13C-2,3,4,7,8-PeCDF	7.78e5	1.04e6	1.64	NO	0.778	30.53	30.59	NO	1.208	1.210	96.523	96.5	NO
28	28 13C-1,2,3,4,7,8-HxCDF	5.59e5	5.93e5	0.50	NO	0.954	33.19	33.21	NO	0.987	0.987	98.935	98.9	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.92e5	5.93e5	0.50	NO	1.01	33.32	33.33	NO	0.991	0.991	99.232	99.2	NO
30	30 13C-2,3,4,6,7,8-HxCDF	5.42e5	5.93e5	0.50	NO	0.921	33.99	33.99	NO	1.011	1.011	99.310	99.3	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.65e5	5.93e5	0.51	NO	0.803	34.99	34.99	NO	1.040	1.041	97.643	97.6	NO

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-1.qld

Last Altered: Friday, November 27, 2020 13:14:10 Pacific Standard Time
Printed: Friday, November 27, 2020 13:15:05 Pacific Standard Time

Name: 201126R1_1, Date: 26-Nov-2020, Time: 08:35:39, ID: ST201126R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	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	4.15e5	5.93e5	0.41	NO	0.735	36.55	36.57	NO	1.087	1.087	95.215	95.2	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.90e5	5.93e5	0.42	NO	0.568	38.59	38.63	NO	1.147	1.149	86.184	86.2	NO
34	34 13C-OCDF	6.79e5	5.93e5	0.85	NO	0.629	41.21	41.26	NO	1.225	1.227	181.94	91.0	NO
35	35 37Cl-2,3,7,8-TCDD	7.06e4	5.43e5			1.09	26.03	26.05	NO	1.030	1.031	11.952	120	NO
36	36 13C-1,2,3,4-TCDD	5.43e5	5.43e5	0.82	NO	1.00	25.37	25.27	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.04e6	1.04e6	0.79	NO	1.00	23.87	23.76	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	5.93e5	5.93e5	0.49	NO	1.00	33.71	33.63	NO	1.000	1.000	100.00	100	YES

Dataset: Untitled

Last Altered: Friday, November 27, 2020 10:23:33 Pacific Standard Time

Printed: Friday, November 27, 2020 10:24:32 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

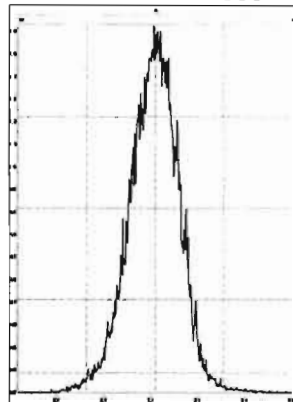
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	201126R1_1	ST201126R1_1 1613 CS3 20F1105	26-Nov-20	08:35:39
2	201126R1_2	TCDF CPSM	26-Nov-20	09:21:33
3	201126R1_3	BOK0190-BS1 OPR 10	26-Nov-20	10:06:27
4	201126R1_4	SOLVENT BLANK	26-Nov-20	10:51:21
5	201126R1_5	BOK0190-BLK1 Method Blank 10	26-Nov-20	11:36:17
6	201126R1_6	2002375-01 USMPDI-045SC-A-01-02-201030 ...	26-Nov-20	12:21:08
7	201126R1_7	2002375-02 USMPDI-045SC-A-02-03-201030 ...	26-Nov-20	13:05:59
8	201126R1_8	2002375-03 USMPDI-045SC-A-03-04-201030 ...	26-Nov-20	13:50:51
9	201126R1_9	2002375-04 USMPDI-045SC-A-04-05-201030 ...	26-Nov-20	14:35:42
10	201126R1_10	2002375-05 USMPDI-047SC-A-01-02-201030 ...	26-Nov-20	15:20:34
11	201126R1_11	2002375-06 USMPDI-047SC-A-02-03-201030 ...	26-Nov-20	16:05:26
12	201126R1_12	2002375-07 USMPDI-047SC-A-03-04-201030 ...	26-Nov-20	16:50:17
13	201126R1_13	2002375-08 USMPDI-047SC-A-04-05-201030 ...	26-Nov-20	17:35:08
14	201126R1_14	2002375-09 USMPDI-1047SC-A-02-03-20103...	26-Nov-20	18:20:01
15	201126R1_15	2002374-05@10X USMPDI-054SC-A-05-06-2...	26-Nov-20	19:04:52

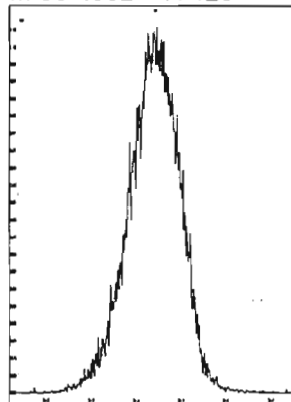
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:31:31 Pacific Standard Time

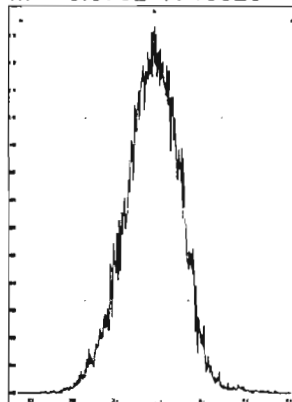
M 292.9824 R 11909



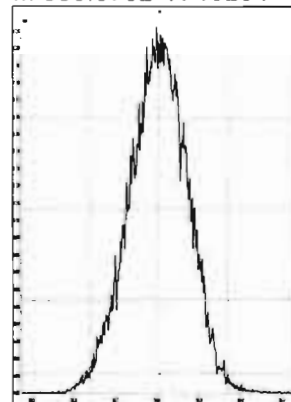
M 304.9824 R 12377



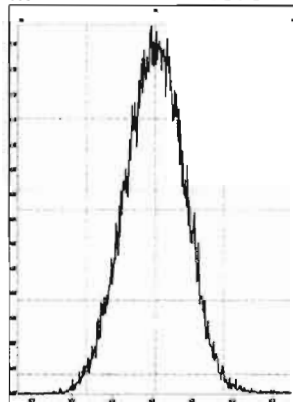
M 318.9792 R 10826



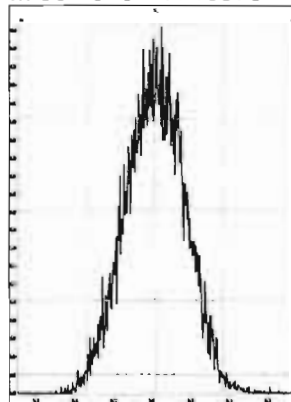
M 330.9792 R 10204



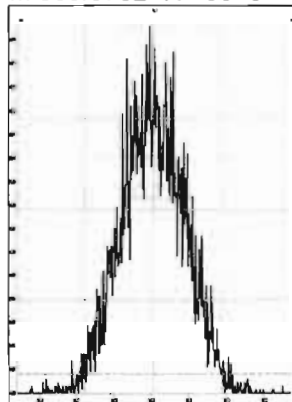
M 342.9792 R 10078



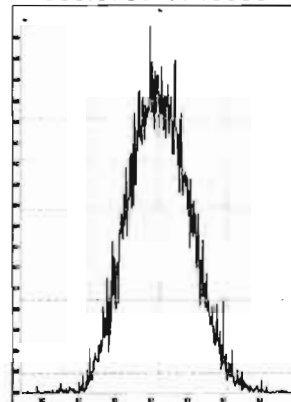
M 354.9792 R 10373



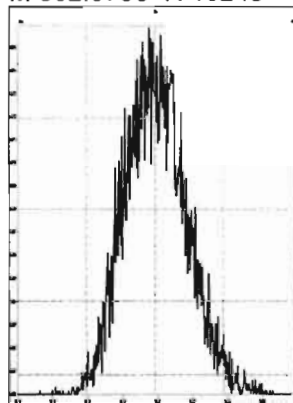
M 366.9792 R 10078



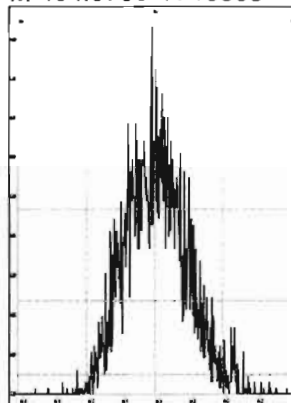
M 380.9760 R 10330



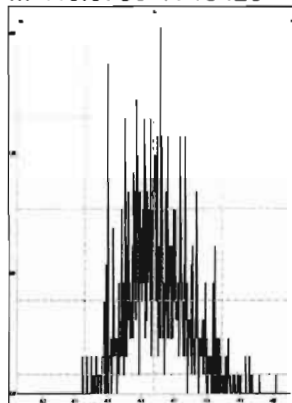
M 392.9760 R 10243



M 404.9760 R 10503



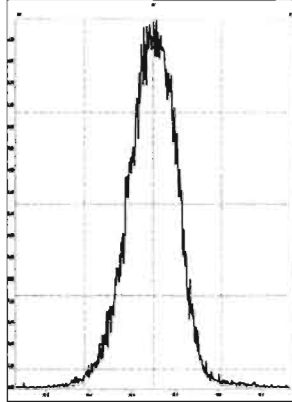
M 416.9760 R 15428



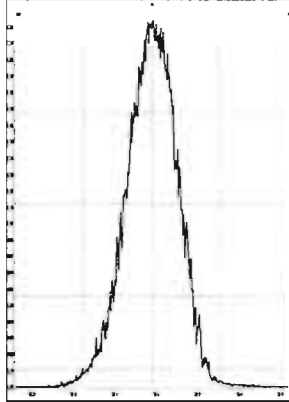
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:32:50 Pacific Standard Time

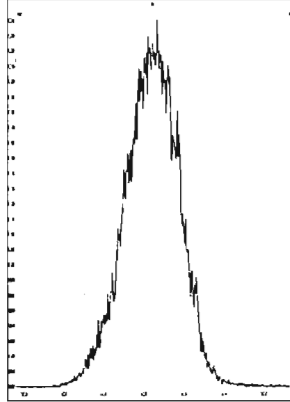
M 318.9792 R 12499



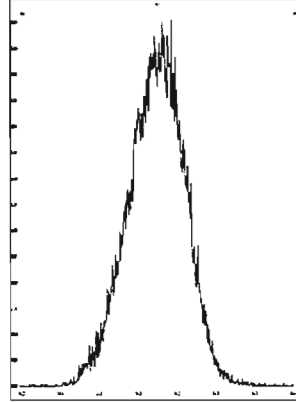
M 330.9792 R 11417



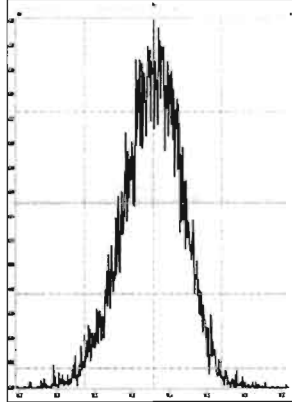
M 342.9792 R 10969



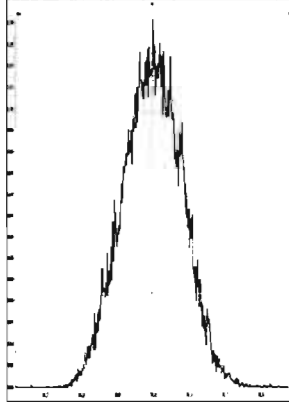
M 354.9792 R 10205



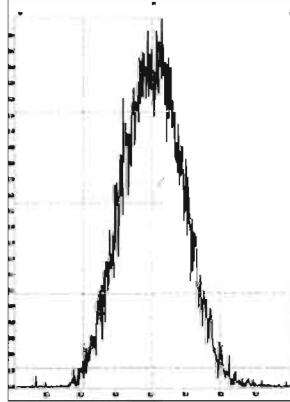
M 366.9792 R 10039



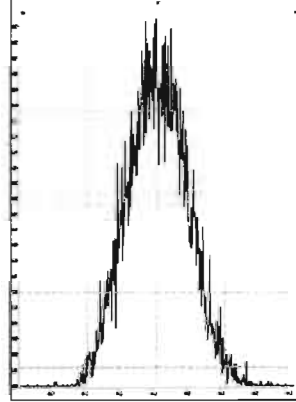
M 380.9760 R 10205



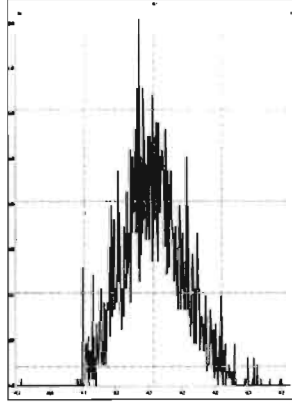
M 392.9760 R 10503



M 404.9760 R 10288



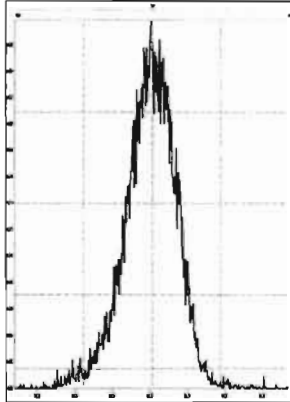
M 416.9760 R 11680



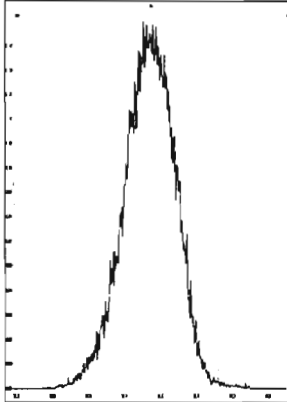
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:33:46 Pacific Standard Time

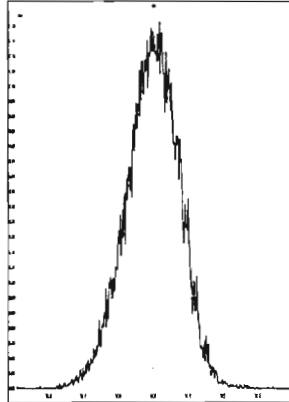
M 366.9792 R 12254



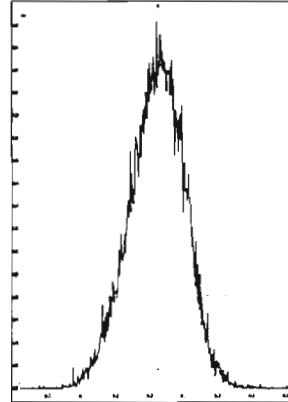
M 380.9760 R 11365



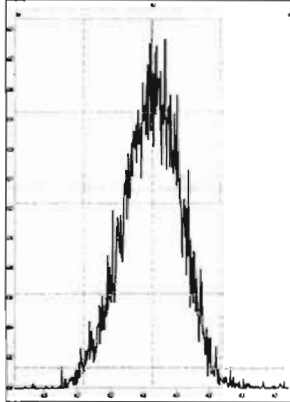
M 392.9760 R 11311



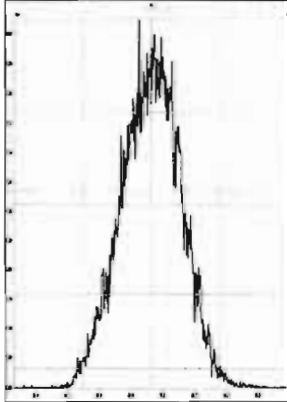
M 404.9760 R 10871



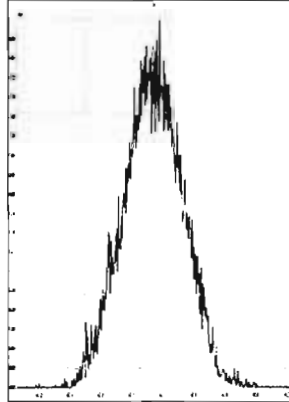
M 416.9760 R 11061



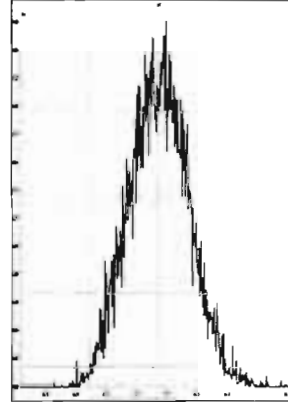
M 430.9728 R 10457



M 442.9728 R 10419



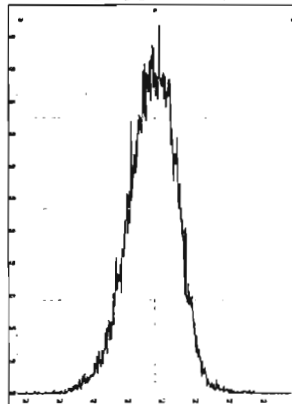
M 454.9728 R 10331



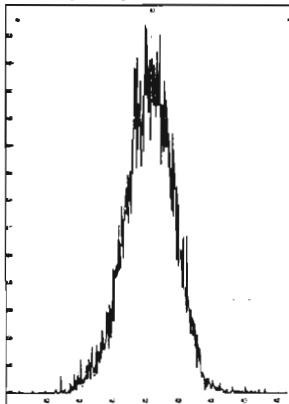
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:34:11 Pacific Standard Time

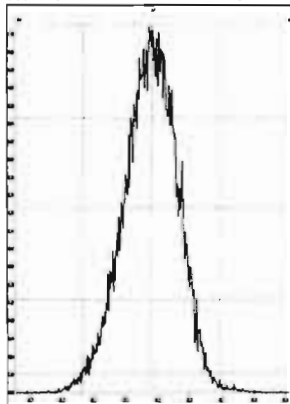
M 404.9760 R 11740



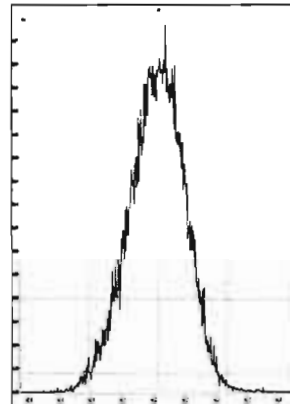
M 416.9760 R 12438



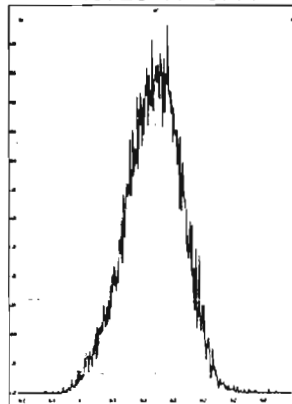
M 430.9728 R 10967



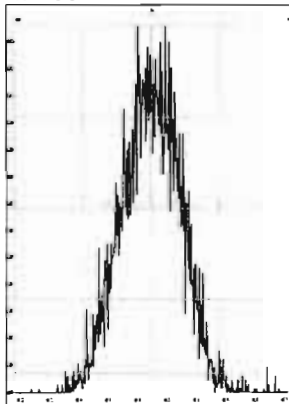
M 442.9728 R 10870



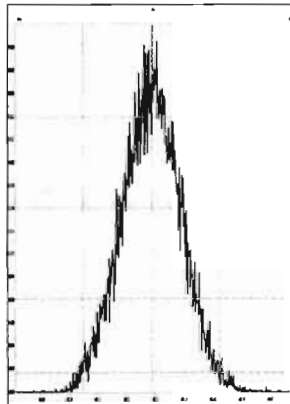
M 454.9728 R 10777



M 466.9728 R 10776



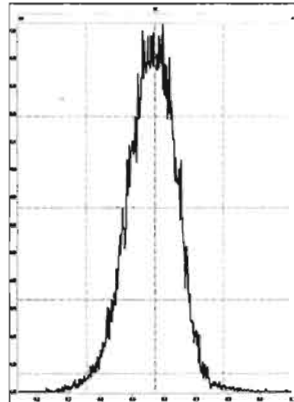
M 480.9696 R 10506



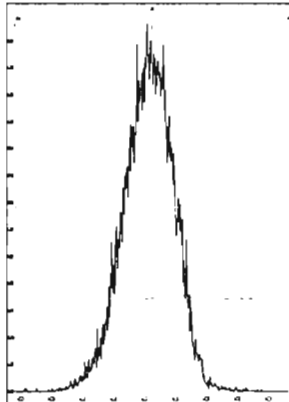
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:34:33 Pacific Standard Time

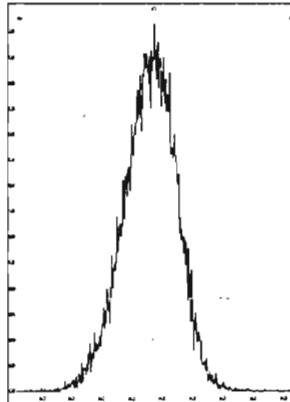
M 430.9728 R 12254



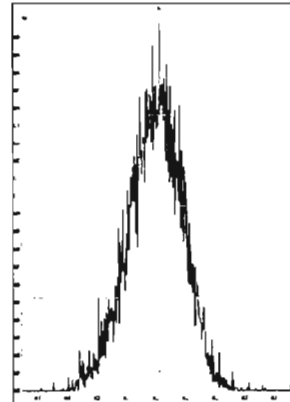
M 442.9728 R 11850



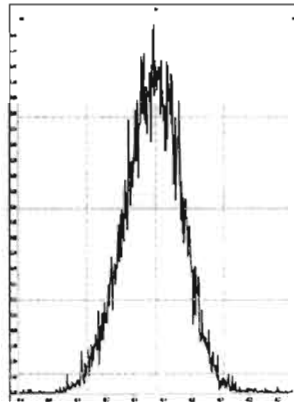
M 454.9728 R 11110



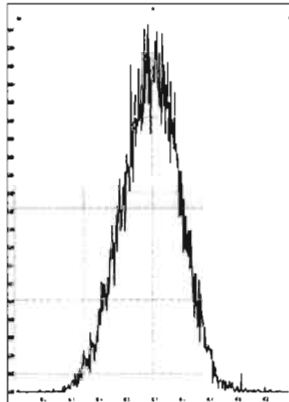
M 466.9728 R 11575



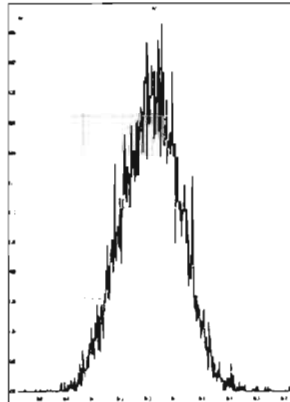
M 480.9696 R 10822



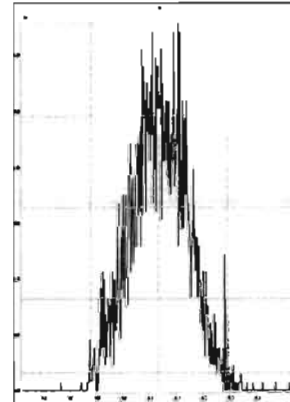
M 492.9696 R 10505



M 504.9696 R 10822



M 516.9697 R 11161



Dataset: Untitled

Last Altered: Thursday, November 26, 2020 9:23:36 AM Pacific Standard Time
Printed: Thursday, November 26, 2020 9:25:13 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 10 Nov 2020 10:04:22
Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201126R1_1, Date: 26-Nov-2020, Time: 08:35:39, ID: ST201126R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	Name	RT
1	1,3,6,8-TCDD (First)	22.22
2	1,2,8,9-TCDD (Last)	26.96
3	1,2,4,7,9-PeCDD (First)	28.51
4	1,2,3,8,9-PeCDD (Last)	31.15
5	1,2,4,6,7,9-HxCDD (First)	32.48
6	1,2,3,7,8,9-HxCDD (Last)	34.51
7	1,2,3,4,6,7,9-HpCDD (First)	36.97
8	1,2,3,4,6,7,8-HpCDD (Last)	38.03
9	1,3,6,8-TCDF (First)	20.02
10	1,2,8,9-TCDF (Last)	27.27
11	1,3,4,6,8-PeCDF (First)	26.85
12	1,2,3,8,9-PeCDF (Last)	31.52
13	1,2,3,4,6,8-HxCDF (First)	31.95
14	1,2,3,7,8,9-HxCDF (Last)	35.02
15	1,2,3,4,6,7,8-HpCDF (First)	36.59
16	1,2,3,4,7,8,9-HpCDF (Last)	38.66

Dataset: Untitled

Last Altered: Thursday, November 26, 2020 9:23:36 AM Pacific Standard Time
Printed: Thursday, November 26, 2020 9:25:13 AM Pacific Standard Time

GRB 11/26/2020

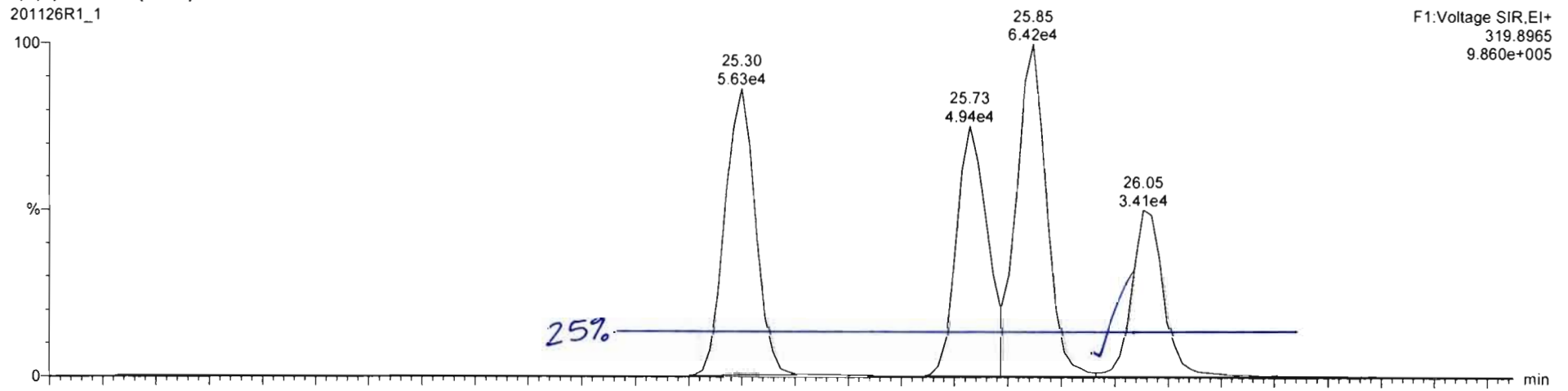
Method: U:\VG12.PRO\MethDB\CPSM.mdb 10 Nov 2020 10:04:22
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H 11.30.2020

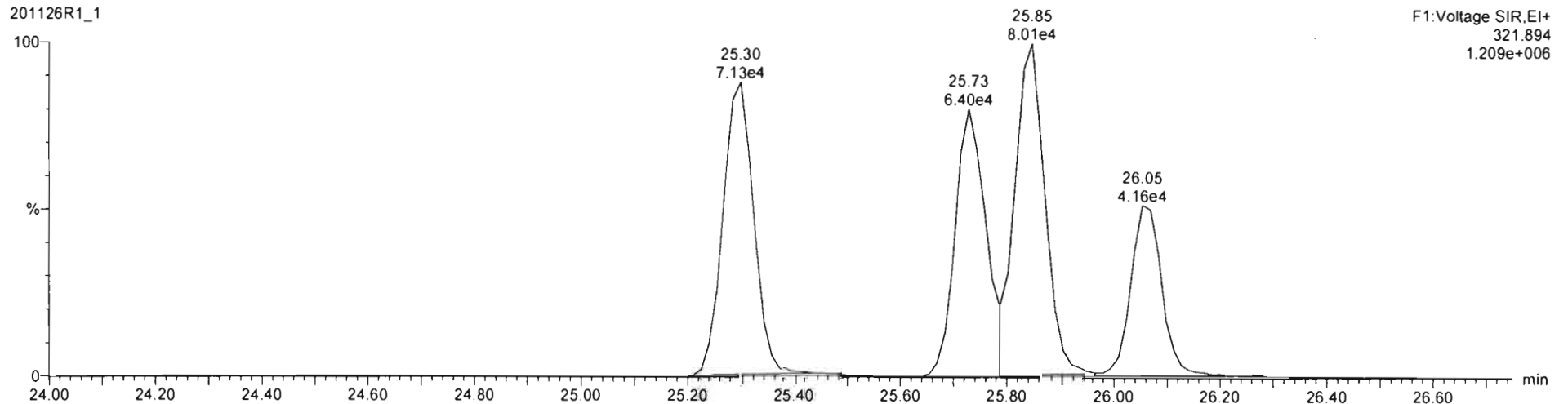
Name: 201126R1_1, Date: 26-Nov-2020, Time: 08:35:39, ID: ST201126R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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

201126R1_1



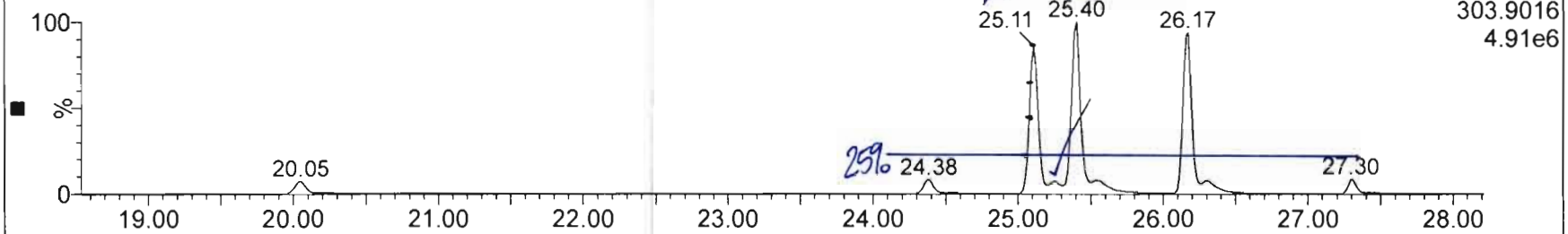
201126R1_1



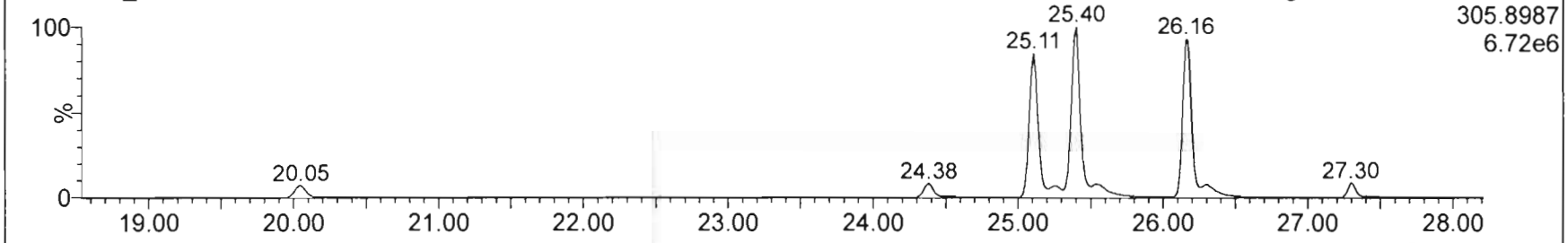
GPB 11/26/2020

TCDF CPSM QC

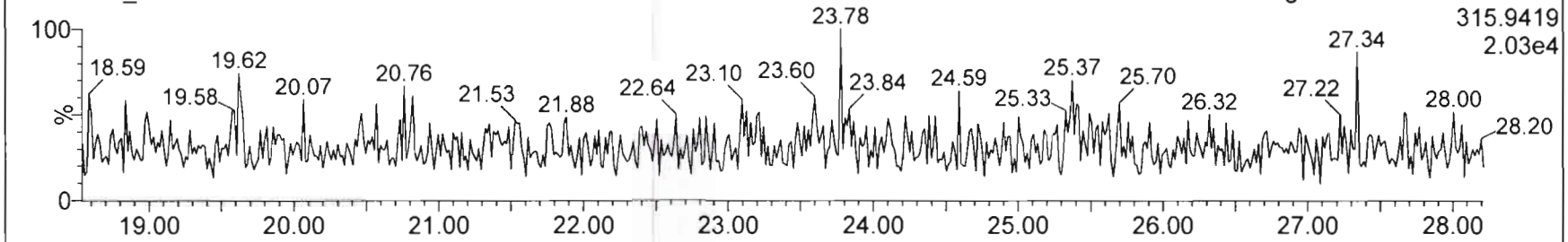
201126R1_2



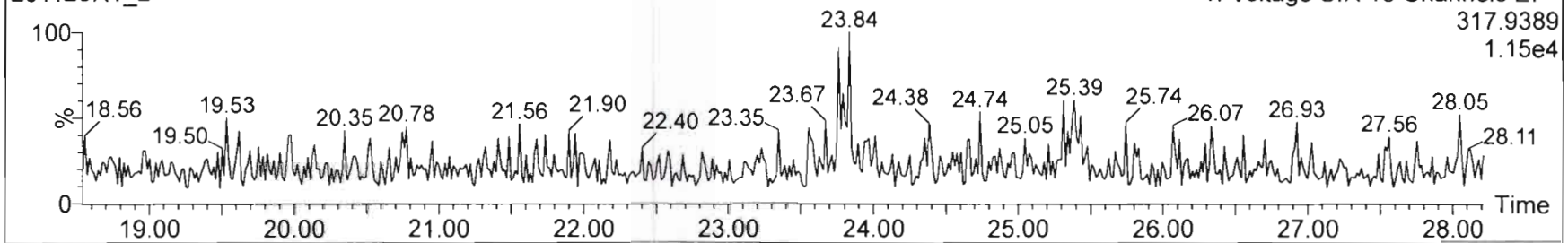
201126R1_2



201126R1_2



201126R1_2



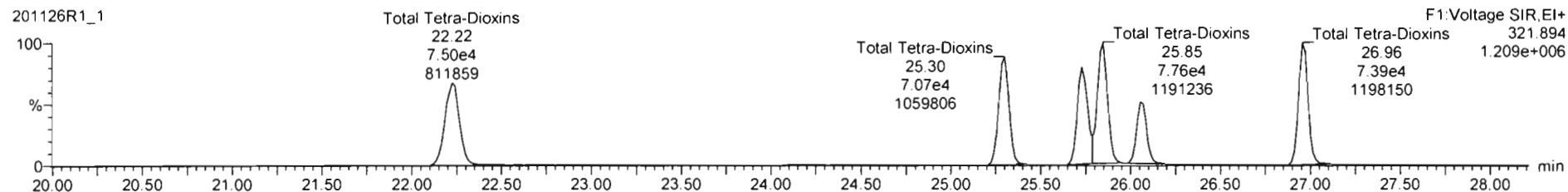
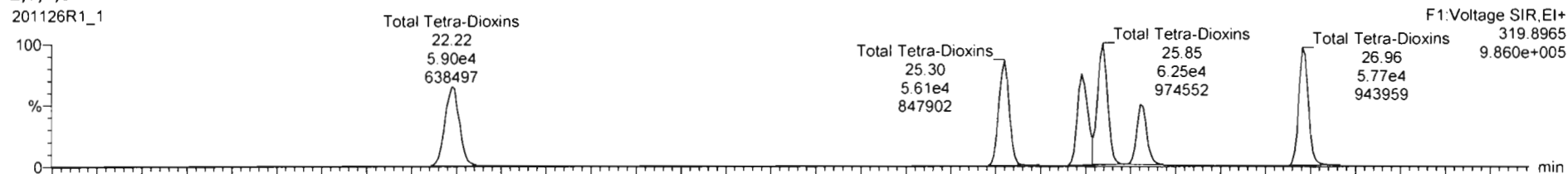
Dataset: Untitled

Last Altered: Thursday, November 26, 2020 09:25:53 Pacific Standard Time
Printed: Thursday, November 26, 2020 09:29:27 Pacific Standard Time

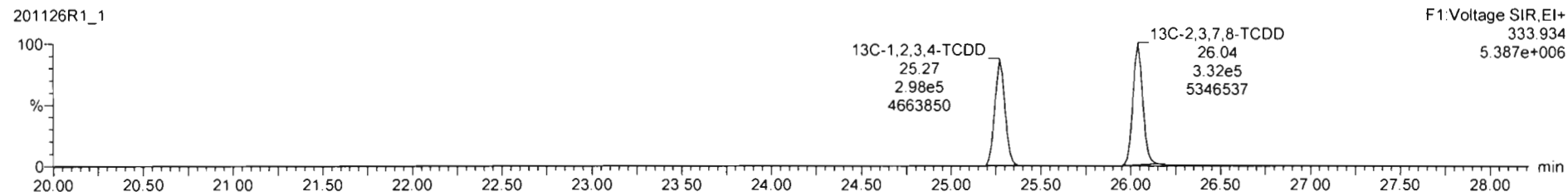
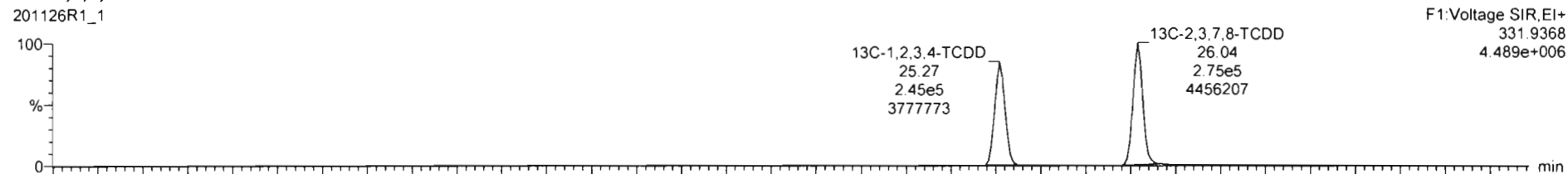
Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201126R1_1, Date: 26-Nov-2020, Time: 08:35:39, ID: ST201126R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

2,3,7,8-TCDD



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



Dataset: Untitled

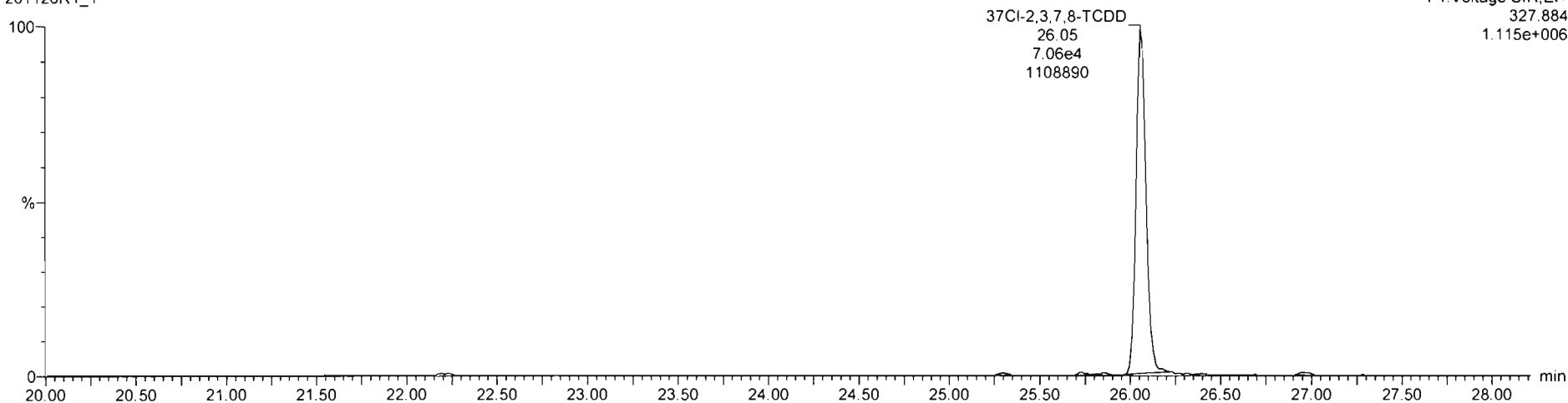
Last Altered: Thursday, November 26, 2020 09:25:53 Pacific Standard Time

Printed: Thursday, November 26, 2020 09:29:27 Pacific Standard Time

Name: 201126R1_1, Date: 26-Nov-2020, Time: 08:35:39, ID: ST201126R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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

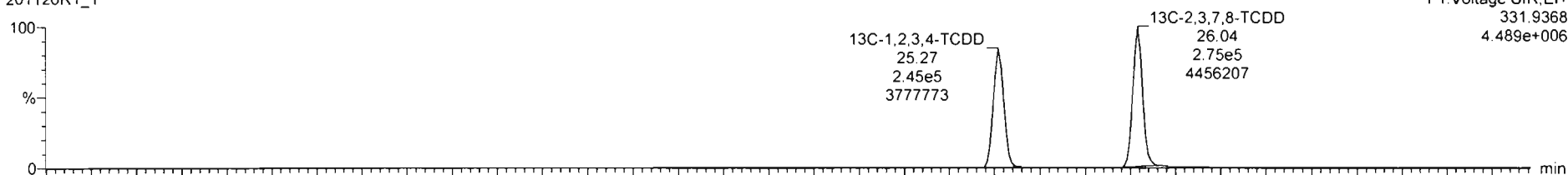
201126R1_1



F1:Voltage SIR,EI+
327.884
1.115e+006

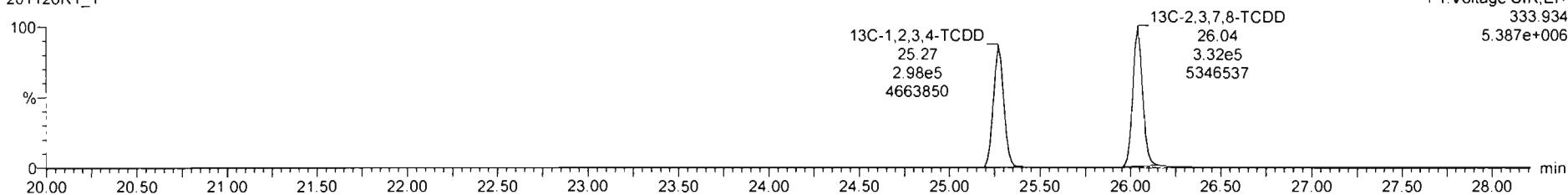
13C-1,2,3,4-TCDD

201126R1_1



F1:Voltage SIR,EI+
331.9368
4.489e+006

201126R1_1



F1:Voltage SIR,EI+
333.934
5.387e+006

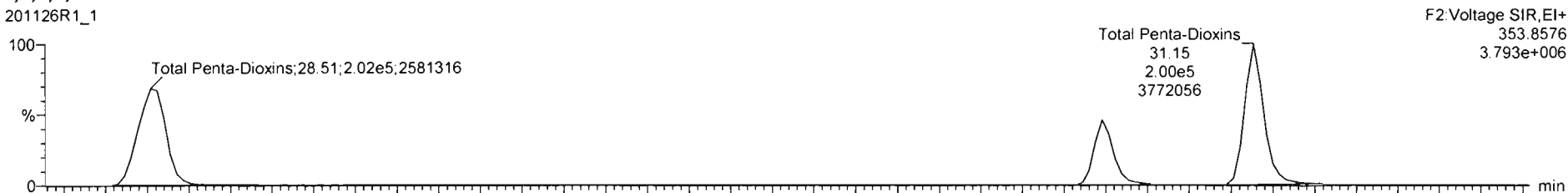
Dataset: Untitled

Last Altered: Thursday, November 26, 2020 09:25:53 Pacific Standard Time
Printed: Thursday, November 26, 2020 09:29:27 Pacific Standard Time

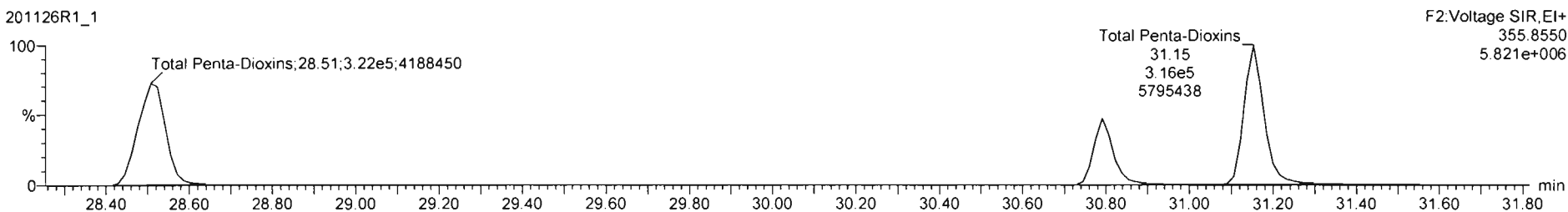
Name: 201126R1_1, Date: 26-Nov-2020, Time: 08:35:39, ID: ST201126R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

1,2,3,7,8-PeCDD

201126R1_1

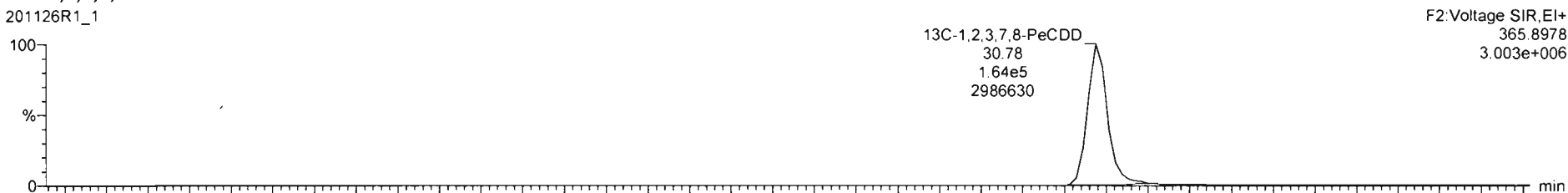


201126R1_1

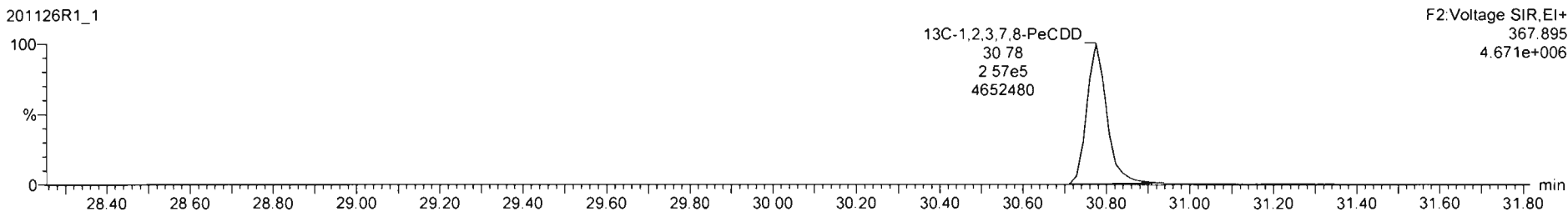


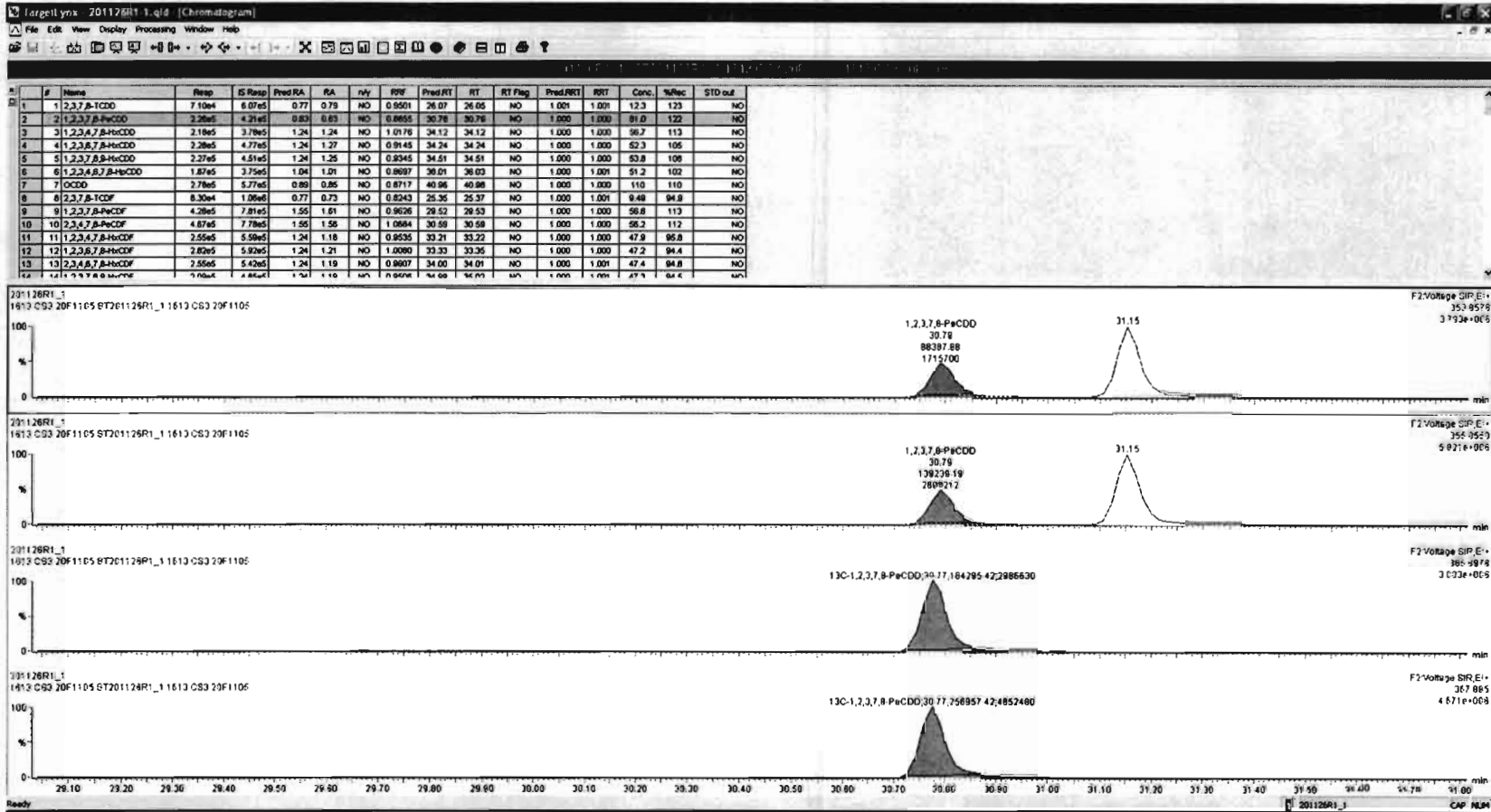
13C-1,2,3,7,8-PeCDD

201126R1_1



201126R1_1





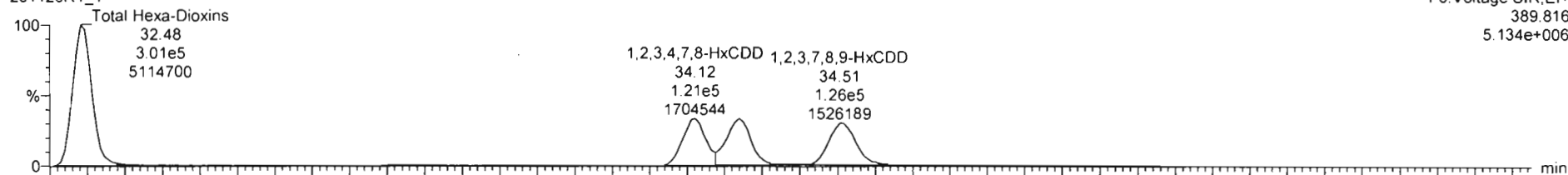
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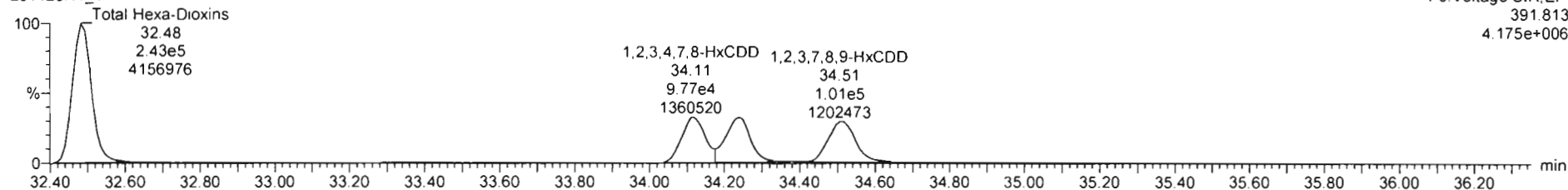
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1,2,3,4,7,8-HxCDD

201126R1_1

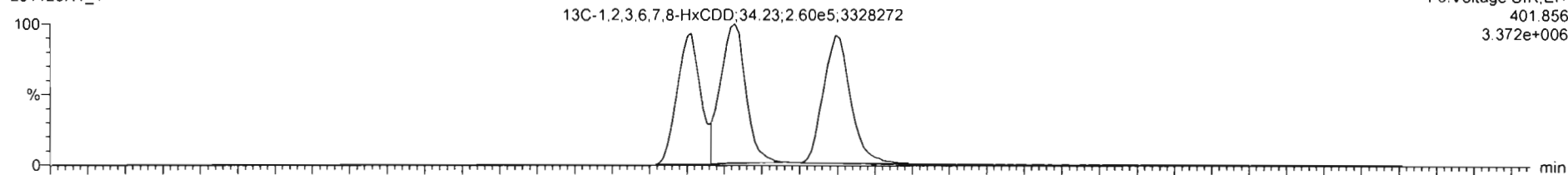


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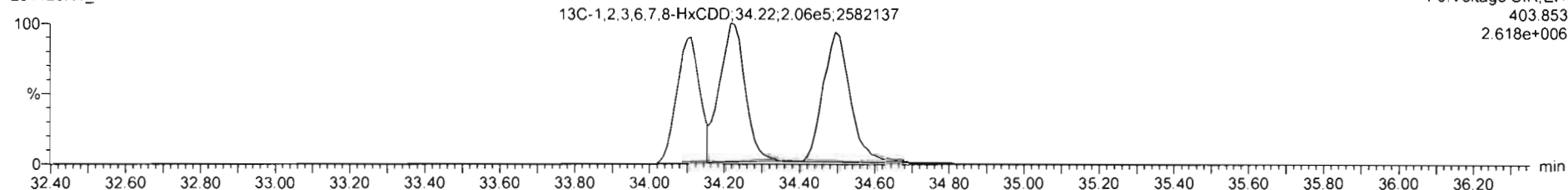


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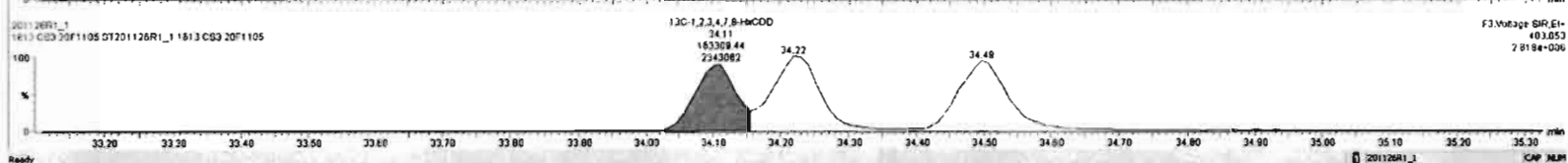
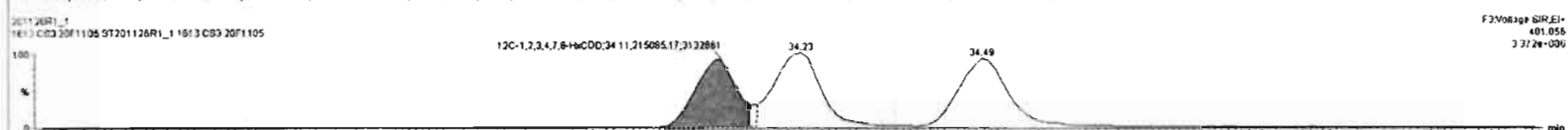
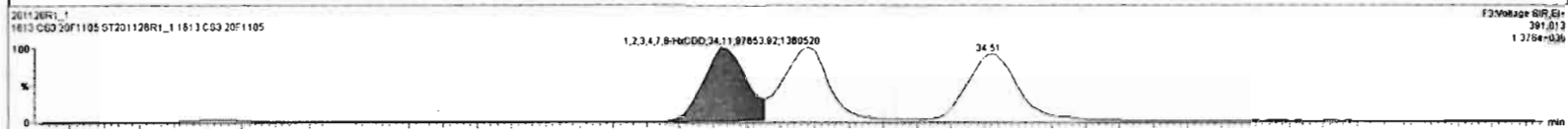
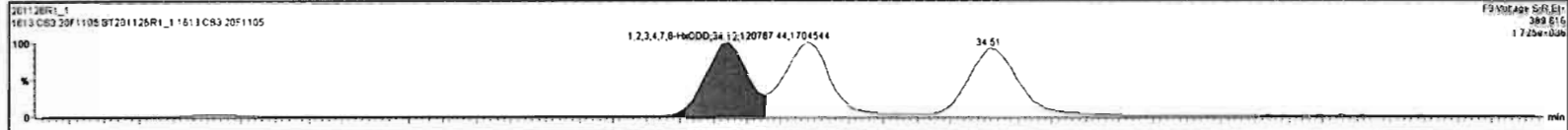
201126R1_1

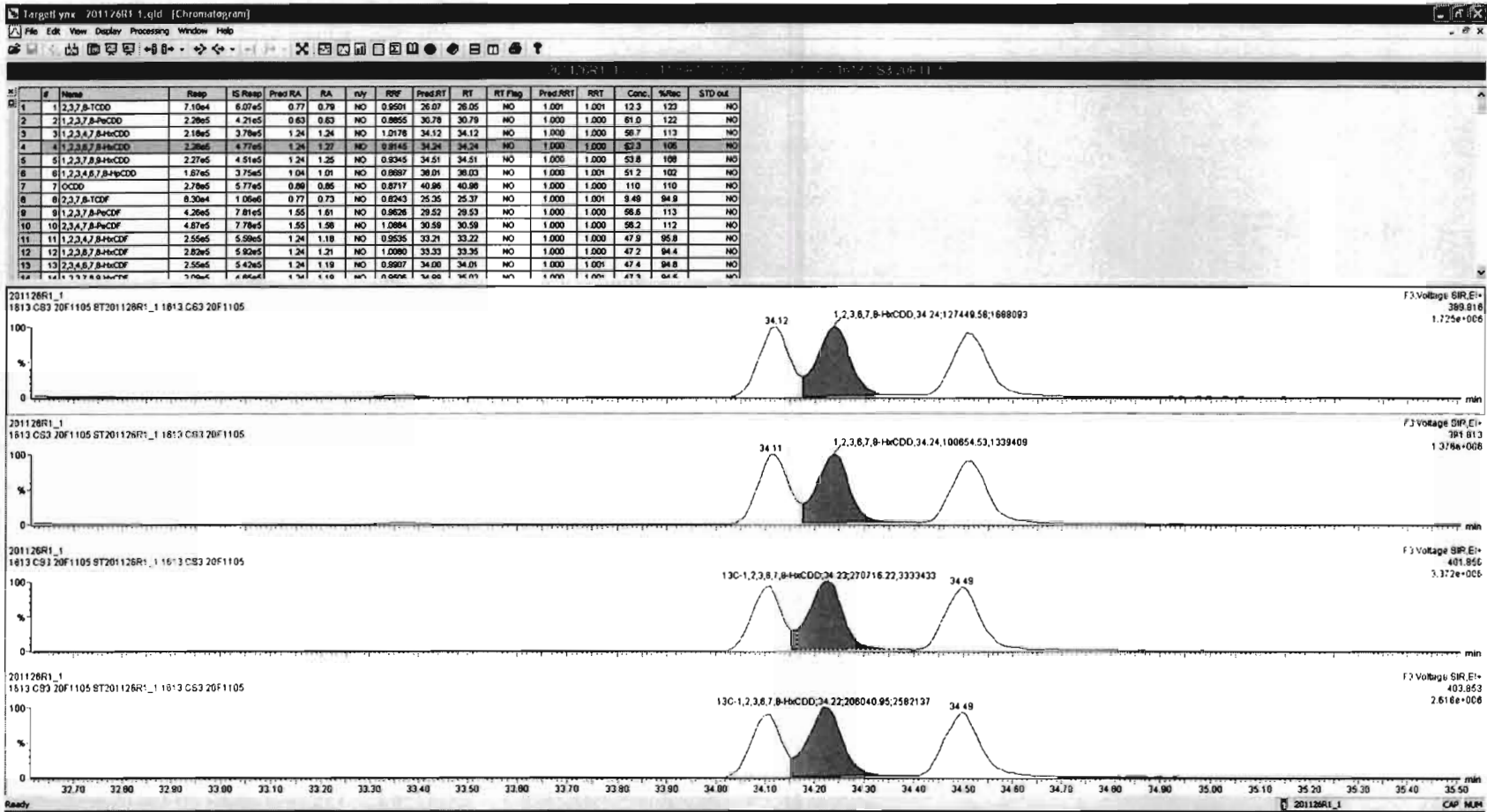


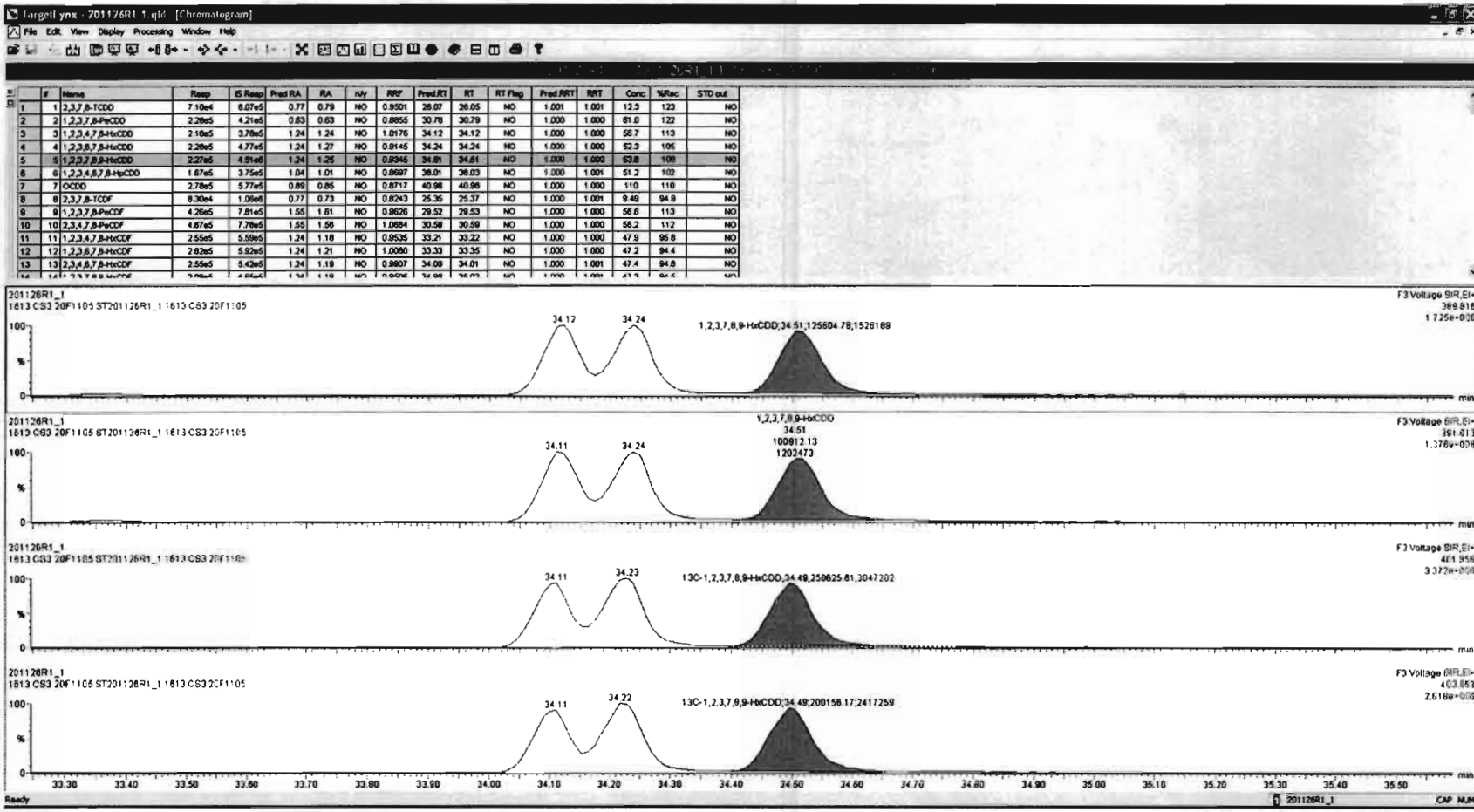
201126R1_1



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1	1,2,3,7,8-TCDF	7.10e4	8.07e5	0.77	0.78	NO	0.9501	26.07	26.06	NO	1.001	1.001	12.3	122	NO
2	1,2,3,7,8-PeCDD	2.26e5	4.21e5	0.63	0.63	NO	0.8655	30.76	30.79	NO	1.000	1.000	81.0	122	NO
3	1,2,3,4,7,8-HxCDD	2.10e5	3.78e5	1.34	1.24	NO	1.0176	34.32	34.12	NO	1.000	1.000	96.7	113	NO
4	1,2,3,6,7,8-HxCDD	2.26e5	4.77e5	1.24	1.27	NO	0.9145	34.24	34.24	NO	1.000	1.000	52.3	105	NO
5	1,2,3,7,8,9-HxCDD	2.27e5	4.51e5	1.24	1.25	NO	0.9345	34.51	34.51	NO	1.000	1.000	53.6	108	NO
6	1,2,3,4,6,7,8-HpCDD	1.67e5	3.75e5	1.04	1.01	NO	0.8667	36.01	36.03	NO	1.000	1.001	91.2	102	NO
7	OCDD	2.76e5	3.77e5	0.89	0.85	NO	0.8717	40.86	40.86	NO	1.000	1.000	110	110	NO
8	1,2,3,7,8-TCDF	8.33e4	1.85e5	0.77	0.73	NO	0.8243	25.35	25.37	NO	1.000	1.001	9.49	94.9	NO
9	1,2,3,7,8-PeCDF	4.26e5	7.81e5	1.55	1.81	NO	0.9628	29.52	29.53	NO	1.000	1.000	56.8	113	NO
10	1,2,3,4,7,8-PeCDF	4.67e5	7.78e5	1.55	1.56	NO	1.0064	30.58	30.58	NO	1.000	1.000	96.2	112	NO
11	1,2,3,4,7,8-HxCDF	2.55e5	5.58e5	1.24	1.18	NO	0.9535	33.21	33.22	NO	1.000	1.000	47.9	95.8	NO
12	1,2,3,6,7,8-HxCDF	2.82e5	5.87e5	1.24	1.21	NO	1.0080	33.33	33.35	NO	1.000	1.000	47.2	94.4	NO
13	1,2,3,4,6,7,8-HpCDF	2.55e5	5.42e5	1.24	1.19	NO	0.9907	34.00	34.01	NO	1.000	1.001	47.4	94.8	NO







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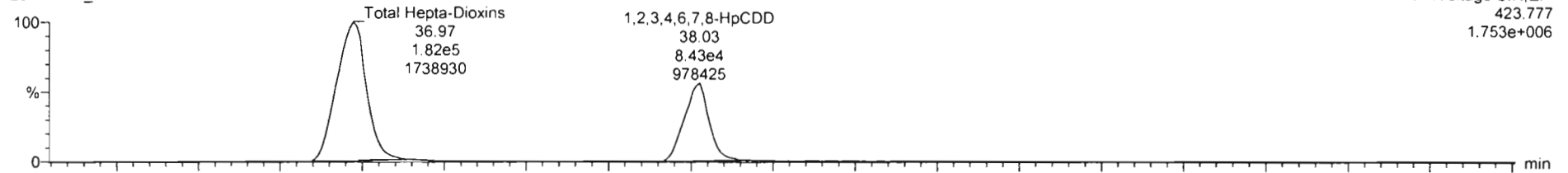
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Printed: Thursday, November 26, 2020 09:29:27 Pacific Standard Time

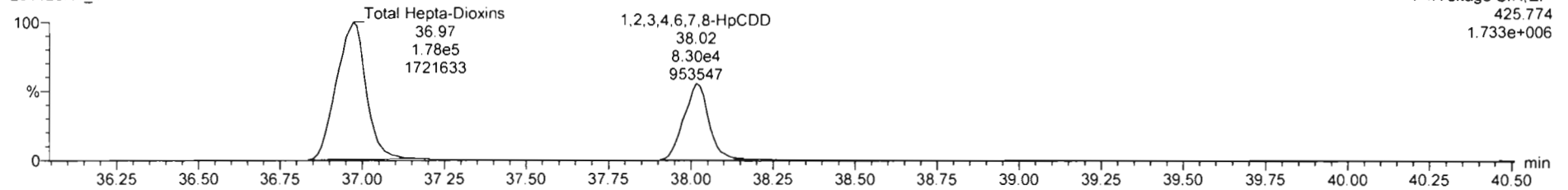
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1,2,3,4,6,7,8-HpCDD

201126R1_1

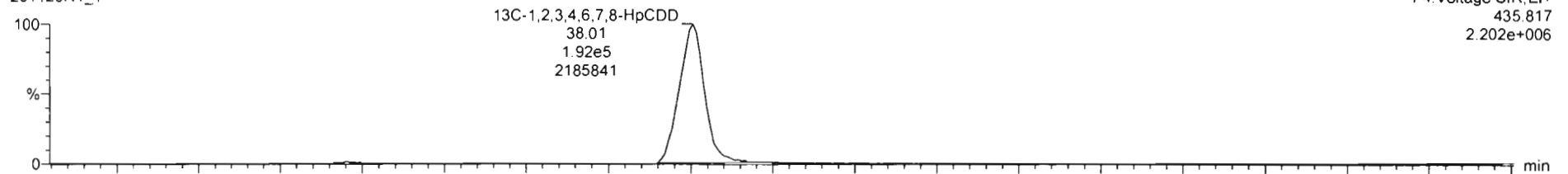


201126R1_1

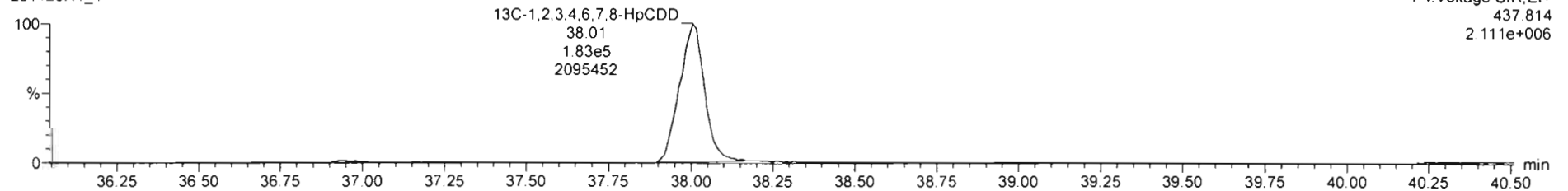


13C-1,2,3,4,6,7,8-HpCDD

201126R1_1



201126R1_1



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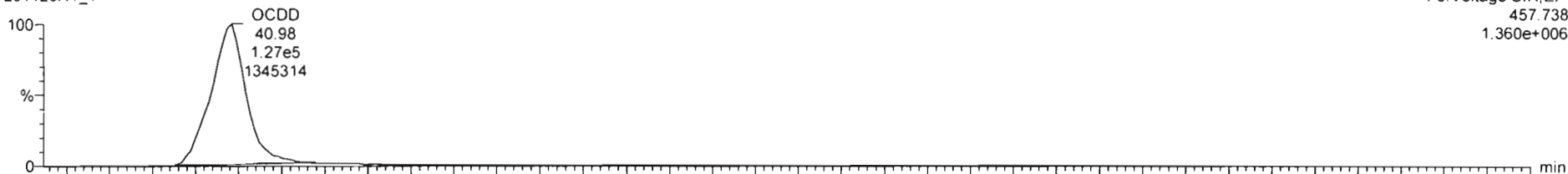
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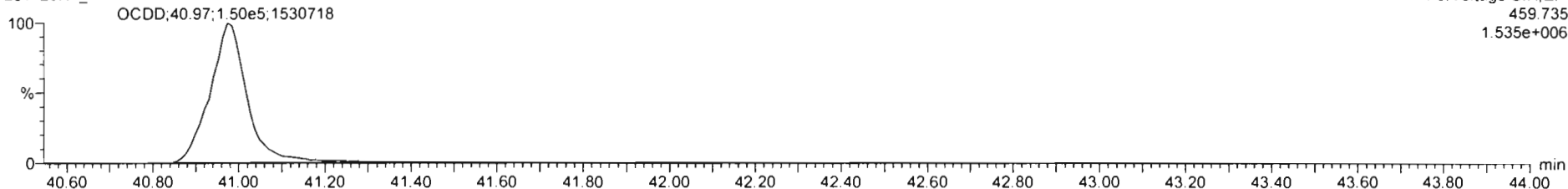
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OCDD

201126R1_1

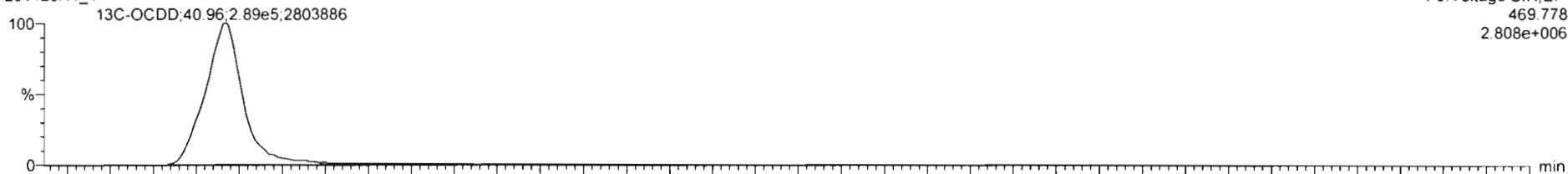


201126R1_1

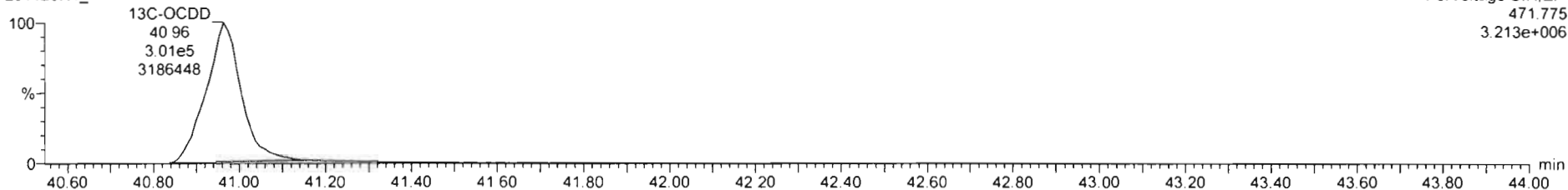


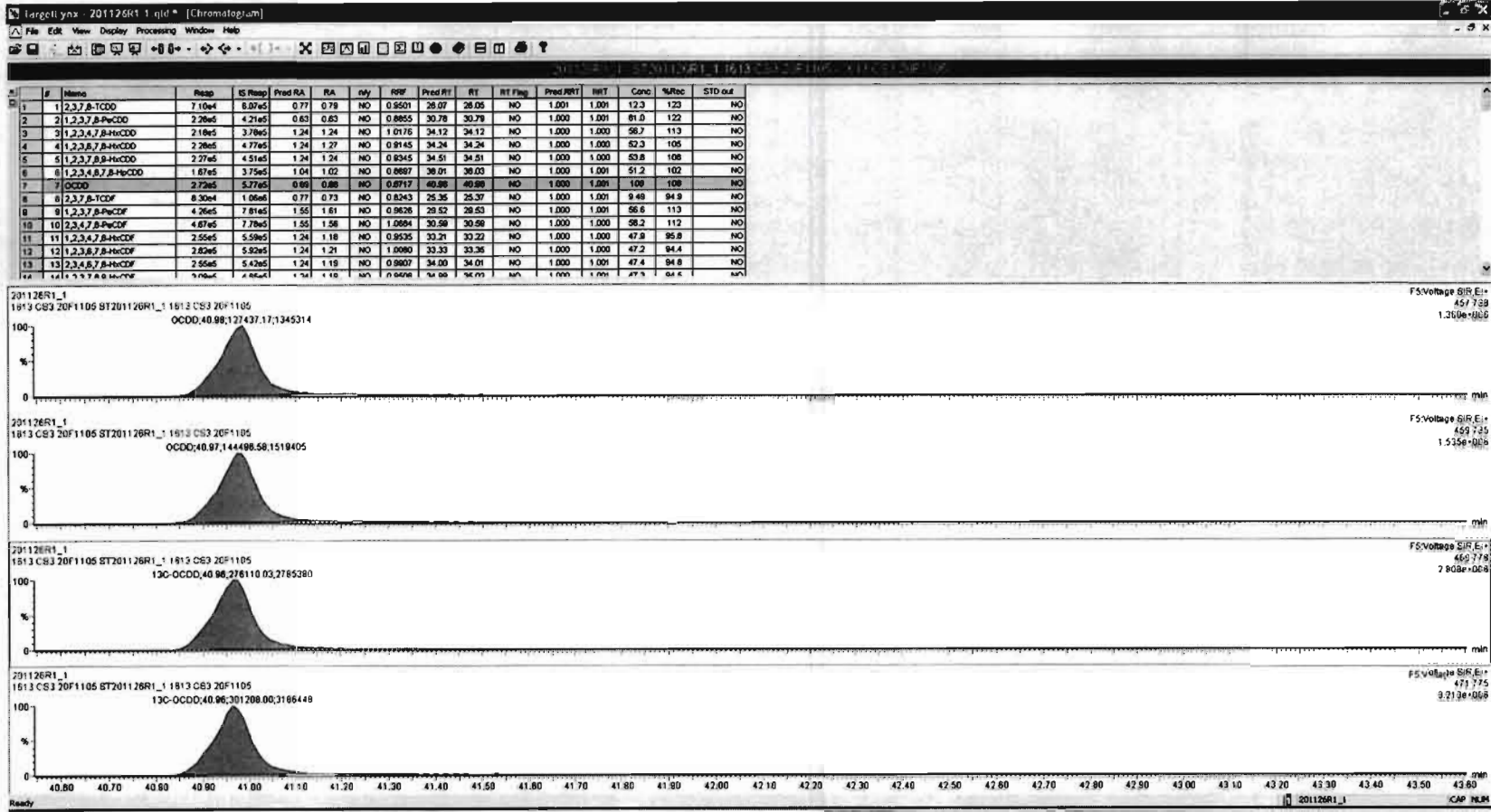
13C-OCDD

201126R1_1



201126R1_1



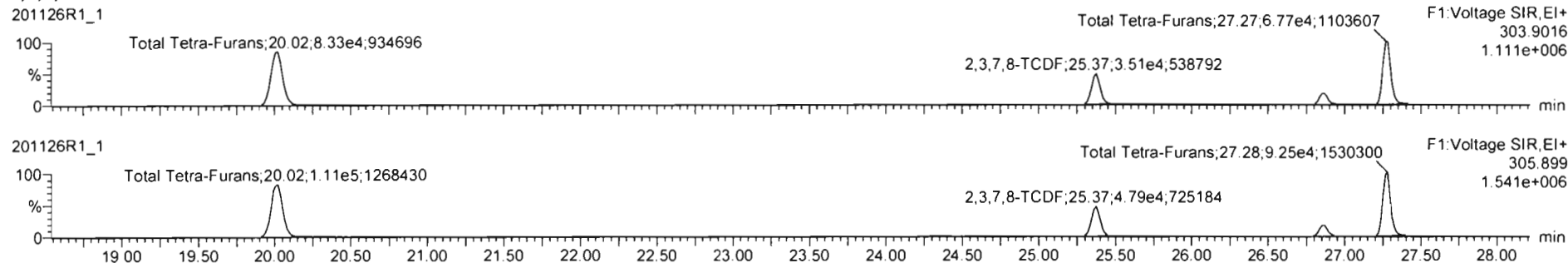


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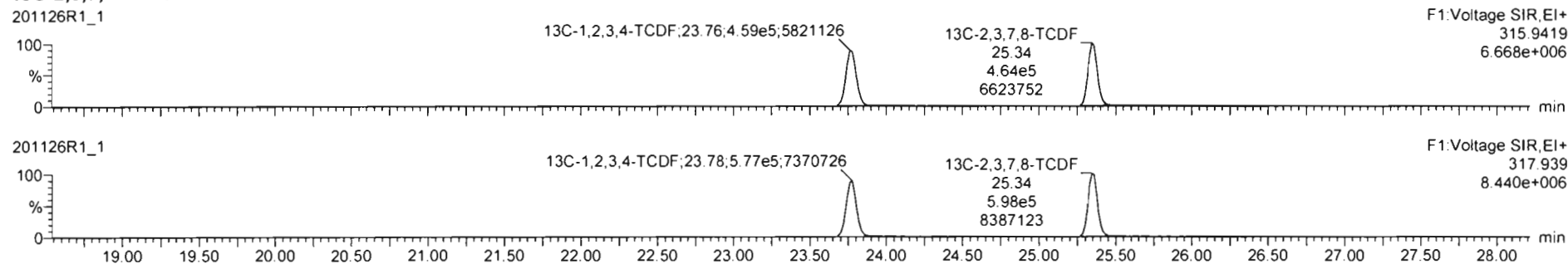
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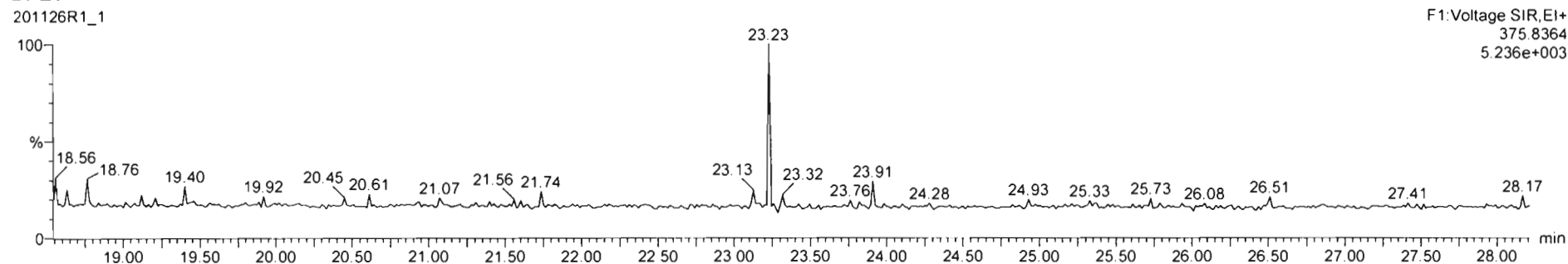
2,3,7,8-TCDF



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



DPE1



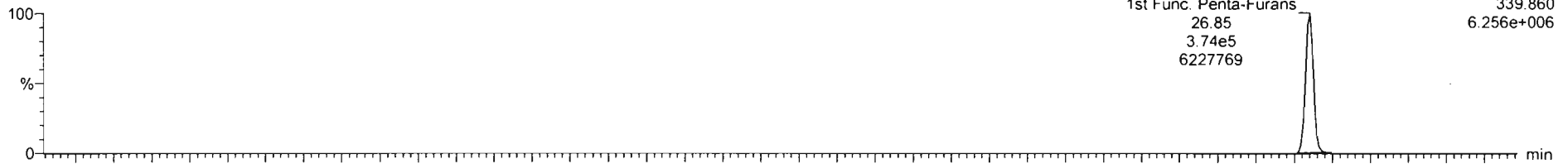
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Printed: Thursday, November 26, 2020 09:29:27 Pacific Standard Time

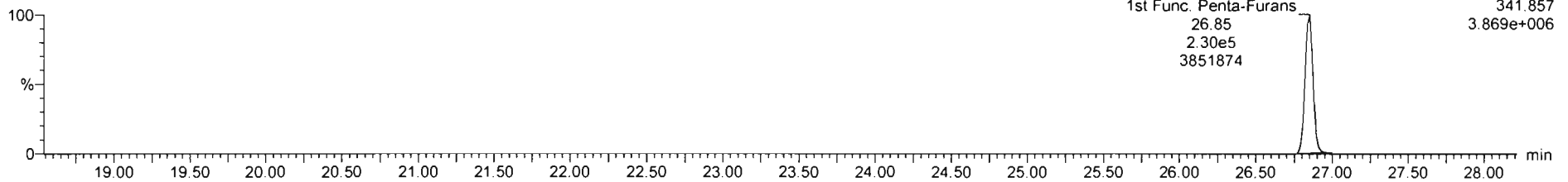
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201126R1_1

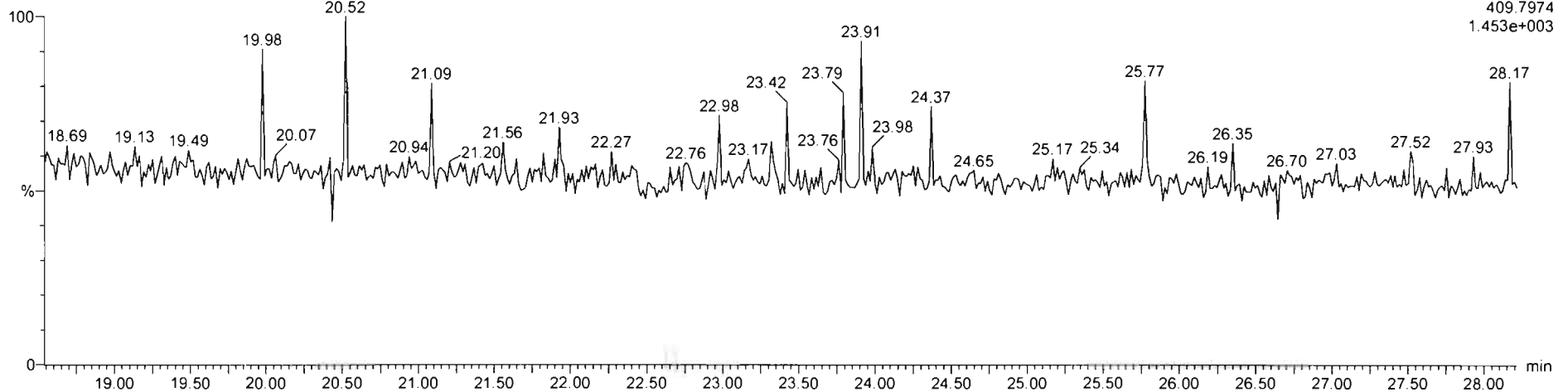


201126R1_1



DPE6

201126R1_1

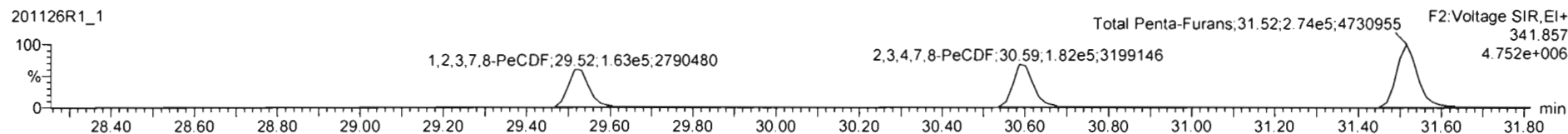
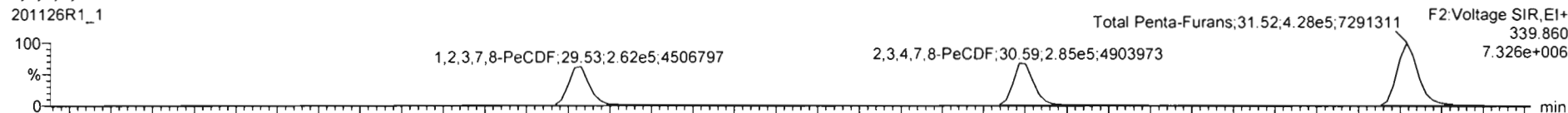


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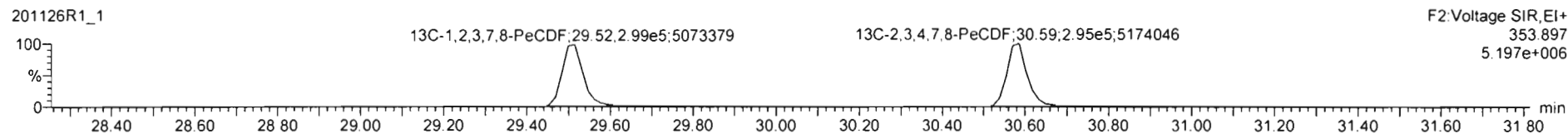
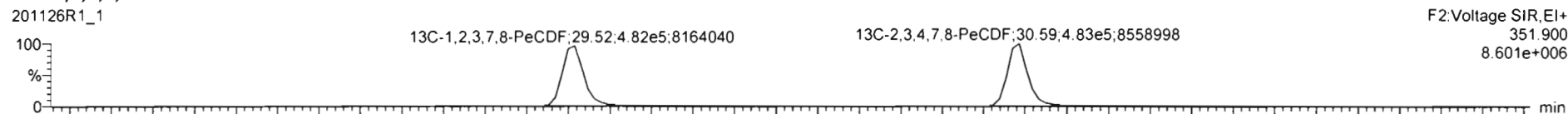
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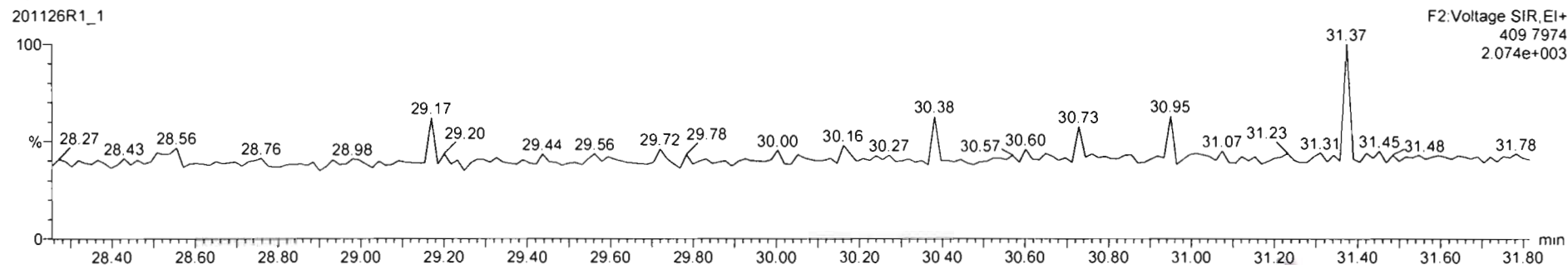
1,2,3,7,8-PeCDF



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



DPE2



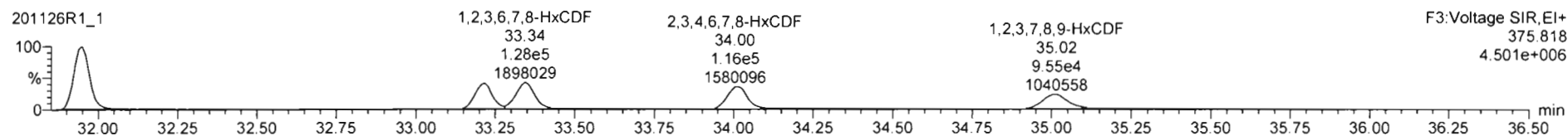
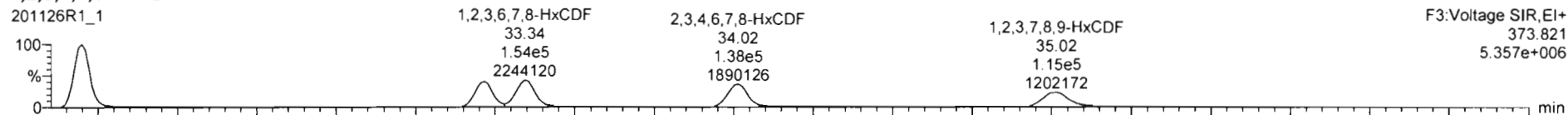
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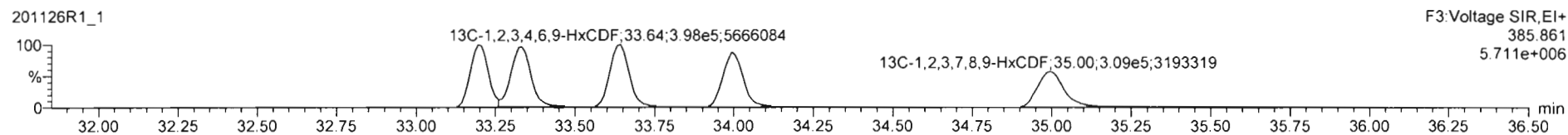
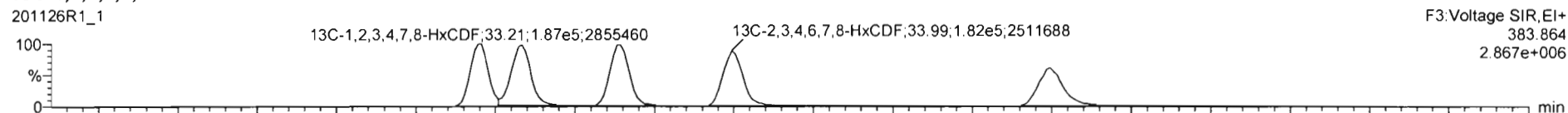
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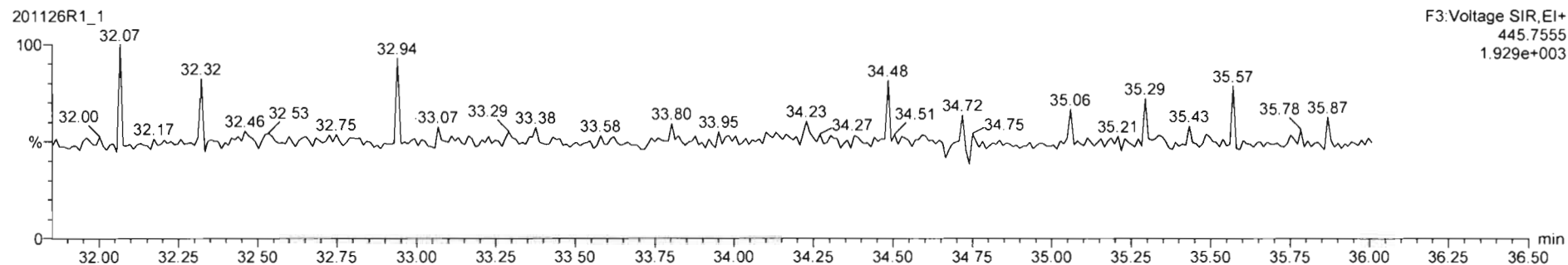
1,2,3,4,7,8-HxCDF



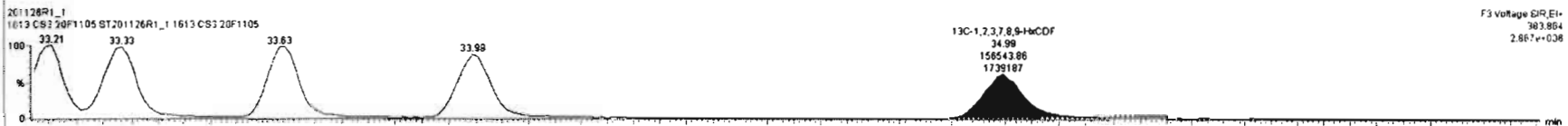
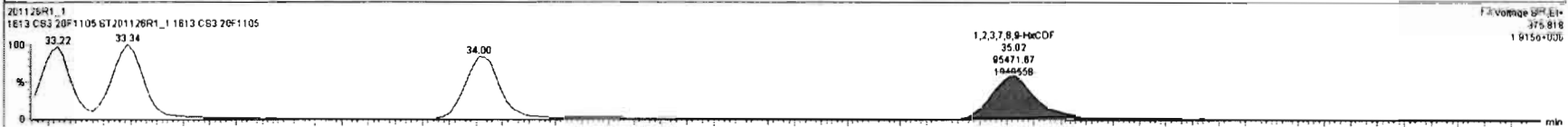
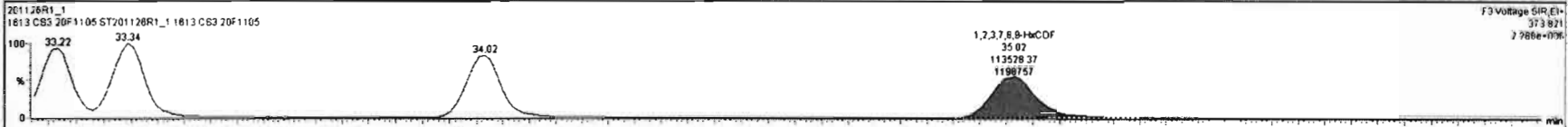
13C-1,2,3,4,7,8-HxCDF



DPE3



#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
14	1,2,3,7,8,9-HxCDF	2.88e5	4.85e5	1.24	1.19	NO	0.8506	34.89	35.02	NO	1.000	1.001	47.3	94.5	NO
15	1,2,3,4,6,7,8-HpCDF	1.93e5	4.15e5	1.04	1.00	NO	0.9986	36.57	36.50	NO	1.000	1.001	46.6	93.3	NO
16	1,2,3,4,7,8,9-HxCDF	1.55e5	2.90e5	1.04	1.02	NO	1.1236	36.83	36.85	NO	1.000	1.001	47.5	95.0	NO
17	OCDF	2.93e5	6.79e5	0.89	0.85	NO	0.8682	41.27	41.26	NO	1.000	1.000	99.3	99.3	NO
18	13C-1,2,3,7,8-1CDD	6.07e5	5.43e5	0.77	0.83	NO	1.1089	26.03	26.04	NO	1.030	1.030	101	101	NO
19	13C-1,2,3,7,8-PeCDD	4.21e5	5.43e5	0.63	0.64	NO	0.8585	30.74	30.77	NO	1.216	1.218	90.4	90.4	NO
20	13C-1,2,3,4,7,8-HpCDD	3.79e5	5.93e5	1.24	1.32	NO	0.8997	34.10	34.11	NO	1.014	1.014	91.2	91.2	NO
21	13C-1,2,3,8,9-HxCDD	4.77e5	5.93e5	1.24	1.31	NO	0.8327	34.24	34.23	NO	1.018	1.018	96.6	96.6	NO
22	13C-1,2,3,7,8,9-HxCDD	4.51e5	5.93e5	1.24	1.25	NO	0.7618	34.48	34.48	NO	1.025	1.026	99.8	99.8	NO
23	13C-1,2,3,4,6,7,8-HpCDD	3.75e5	5.93e5	1.04	1.05	NO	0.8498	37.96	38.01	NO	1.129	1.130	97.5	97.5	NO
24	13C-OCDD	5.77e5	5.93e5	0.88	0.82	NO	0.5394	40.82	40.86	NO	1.217	1.218	181	80.3	NO
25	13C-1,2,3,7,8-1CDF	1.08e6	1.04e6	0.77	0.77	NO	0.9814	25.35	25.34	NO	1.003	1.003	104	104	NO
26	13C-1,2,3,7,8-PeCDF	7.81e5	1.04e6	1.55	1.81	NO	0.7917	29.47	29.51	NO	1.168	1.168	95.2	95.2	NO
27	13C-1,2,3,7,8,9-HxCDF	7.98e5	1.04e6	1.44	1.64	NO	0.7777	29.47	29.49	NO	1.168	1.168	95.2	95.2	NO

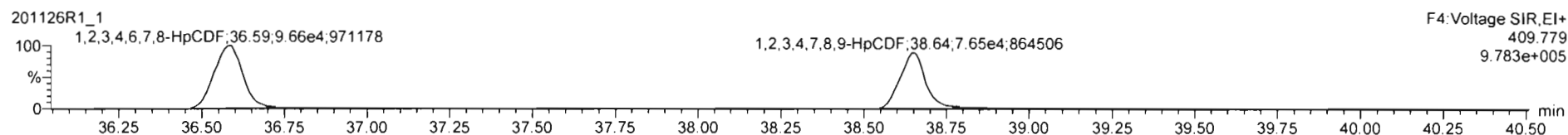
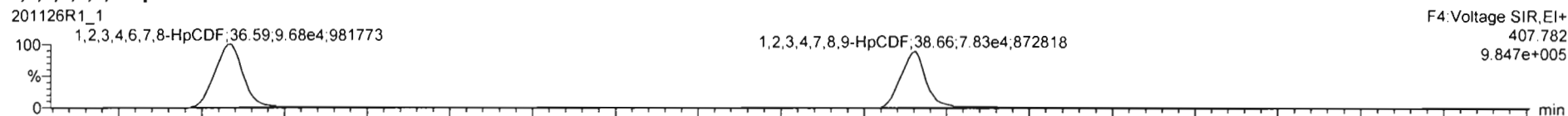


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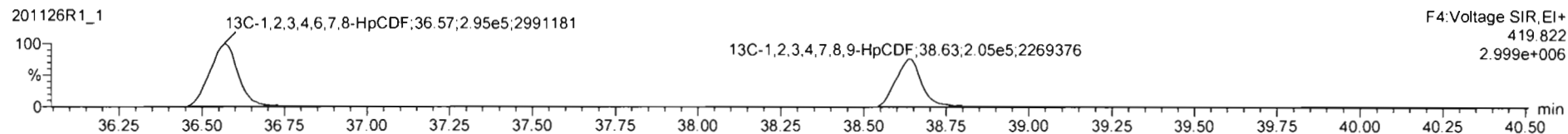
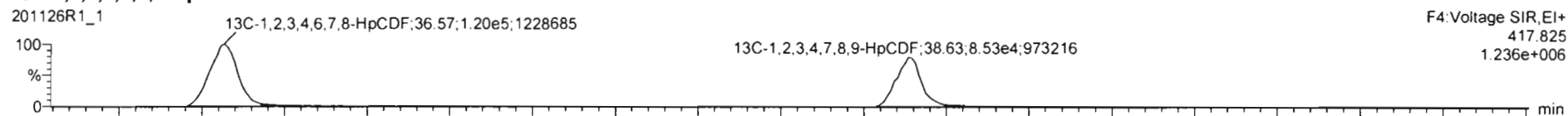
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Name: 201126R1_1, Date: 26-Nov-2020, Time: 08:35:39, ID: ST201126R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

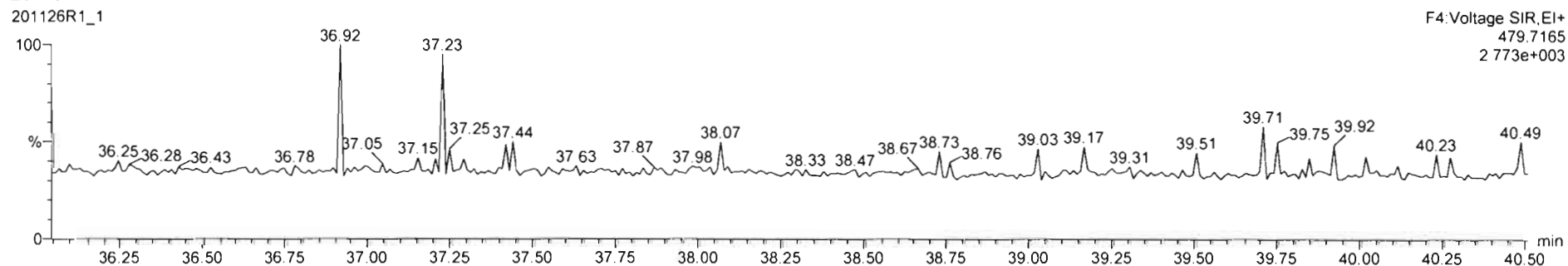
1,2,3,4,6,7,8-HpCDF



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



DPE4

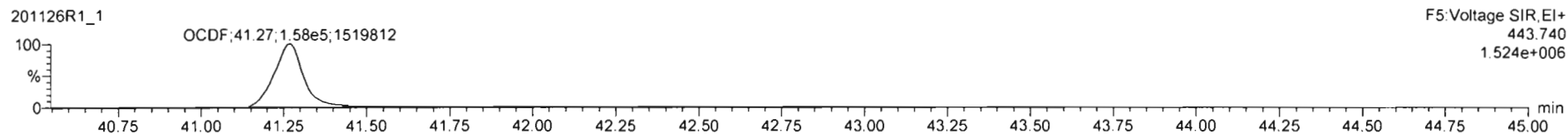
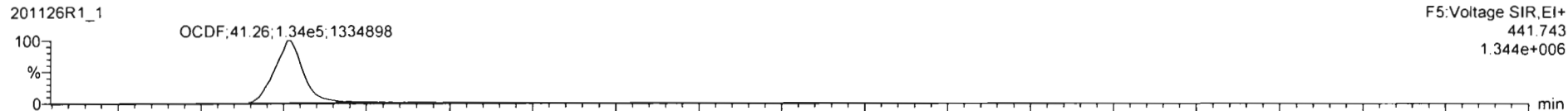


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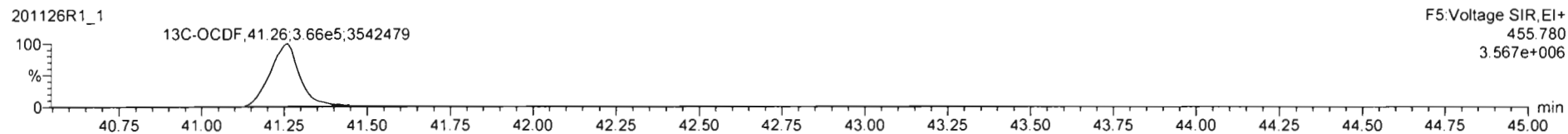
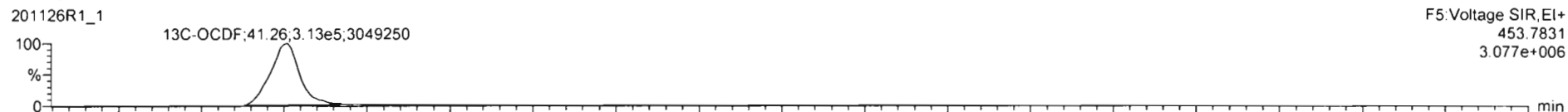
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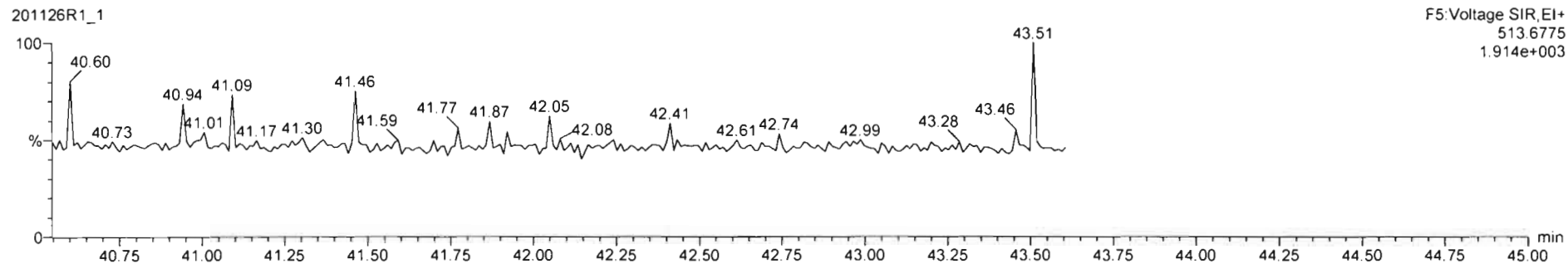
OCDF



13C-OCDF



DPE5



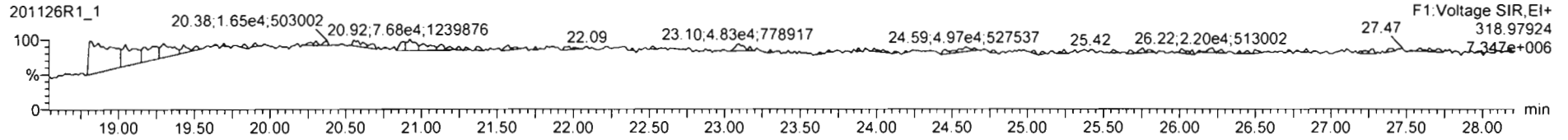
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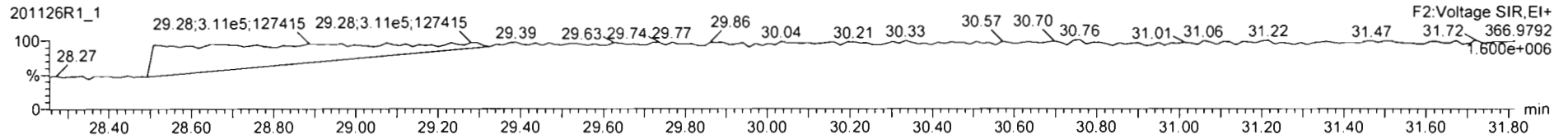
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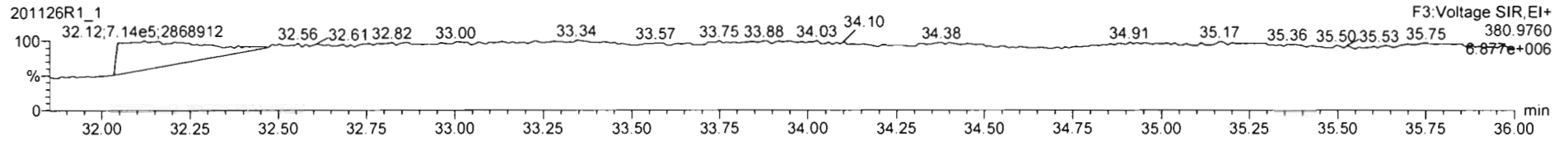
PFK1



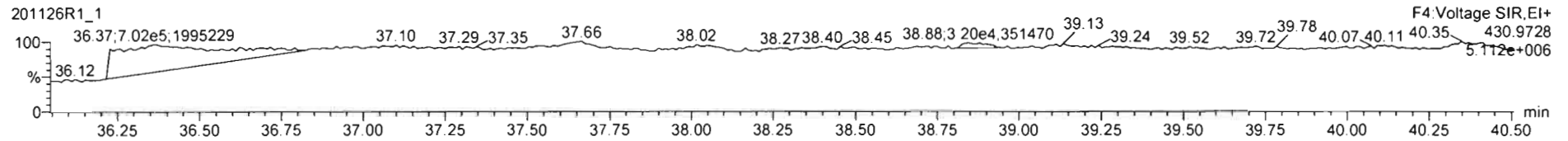
PFK2



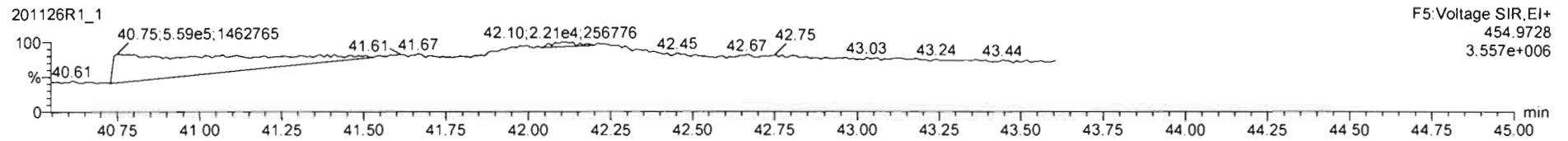
PFK3



PFK4



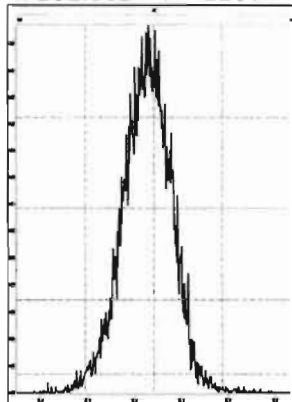
PFK5



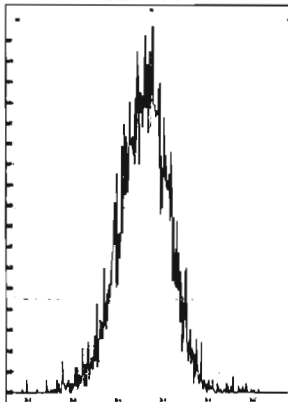
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, November 27, 2020 08:36:54 Pacific Standard Time

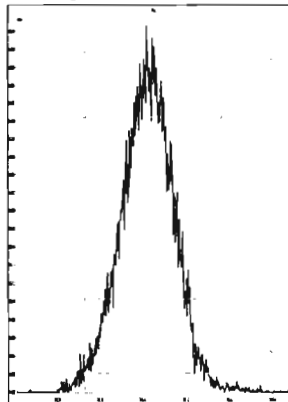
M 292.9824 R 12253



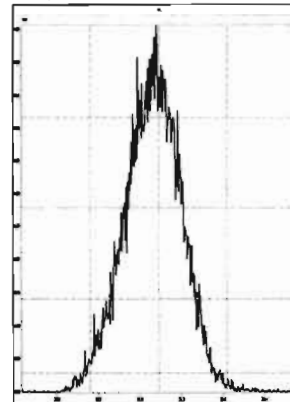
M 304.9824 R 13159



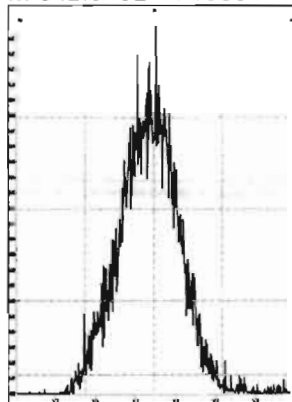
M 318.9792 R 11519



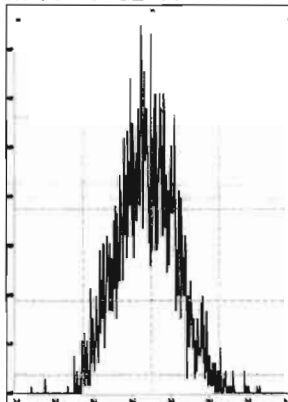
M 330.9792 R 10639



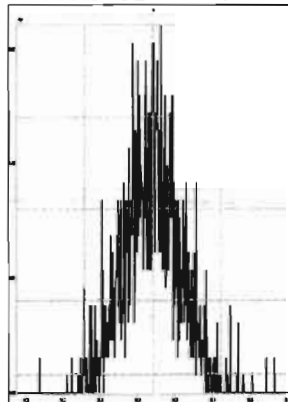
M 342.9792 R 10591



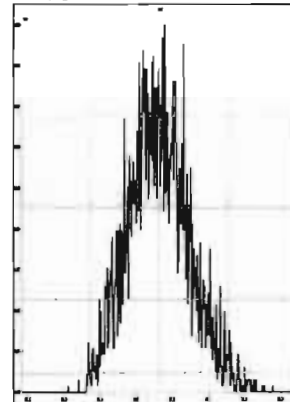
M 354.9792 R 11416



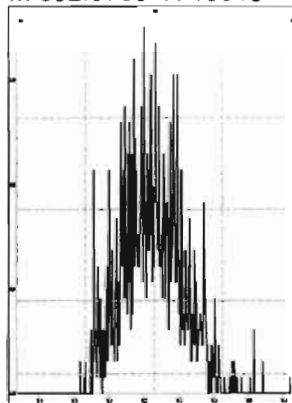
M 366.9792 R 12312



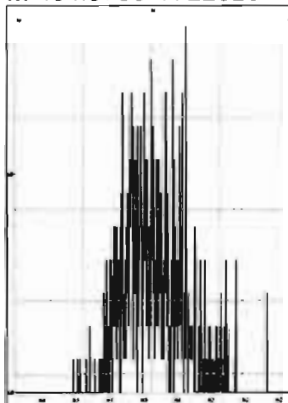
M 380.9760 R 10965



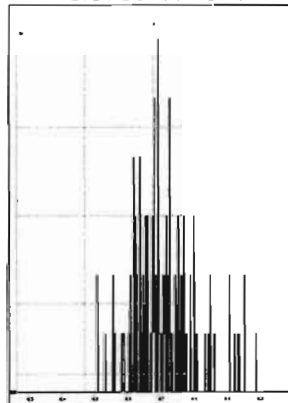
M 392.9760 R 13018



M 404.9760 R 22320



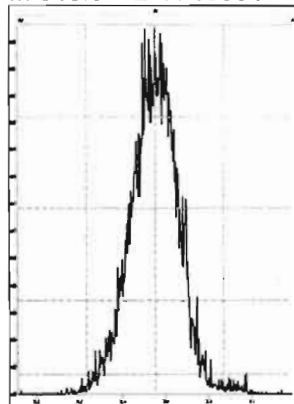
M 416.9760 R 78137



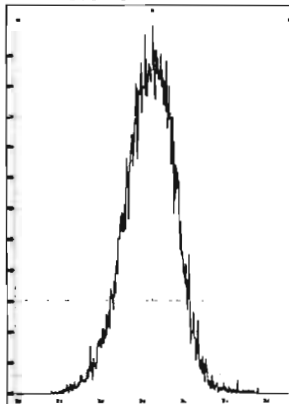
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, November 27, 2020 08:38:03 Pacific Standard Time

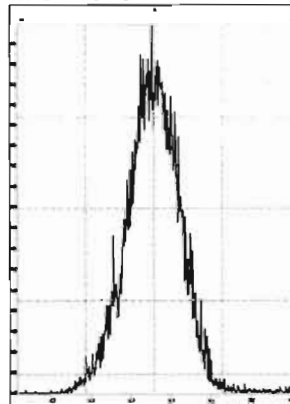
M 318.9792 R 13661



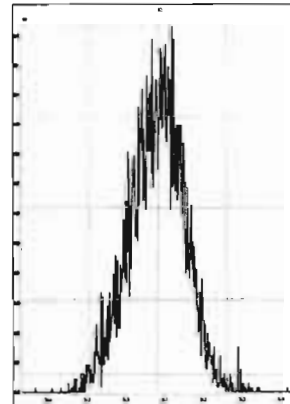
M 330.9792 R 12197



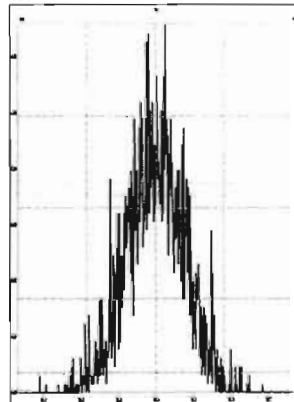
M 342.9792 R 11160



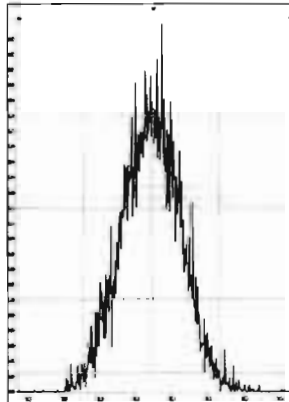
M 354.9792 R 11901



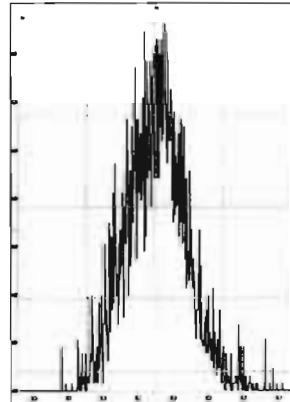
M 366.9792 R 11210



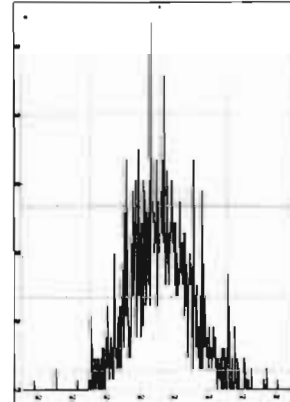
M 380.9760 R 10201



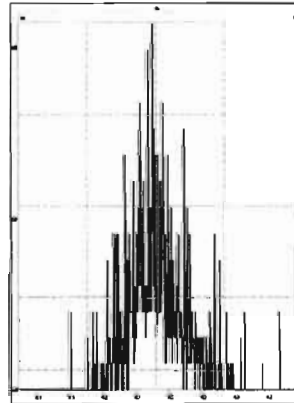
M 392.9760 R 12135



M 404.9760 R 12078



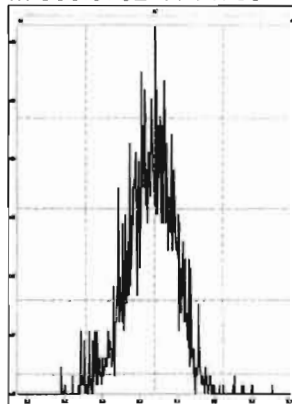
M 416.9760 R 17728



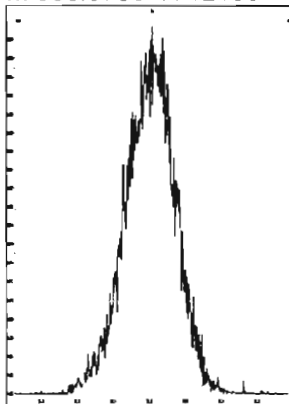
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, November 27, 2020 08:40:25 Pacific Standard Time

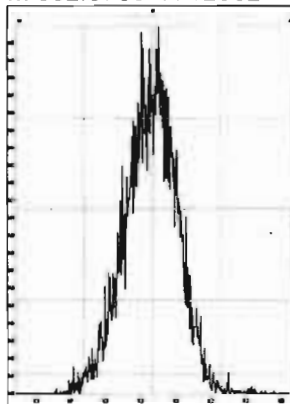
M 366.9792 R 14705



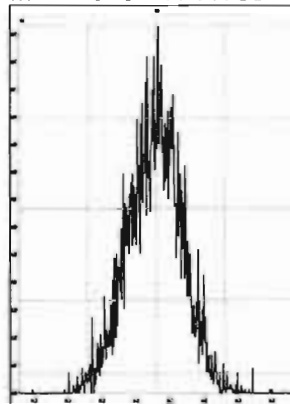
M 380.9760 R 12138



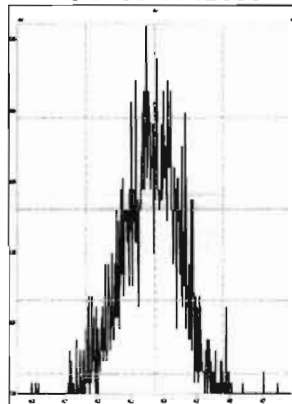
M 392.9760 R 12562



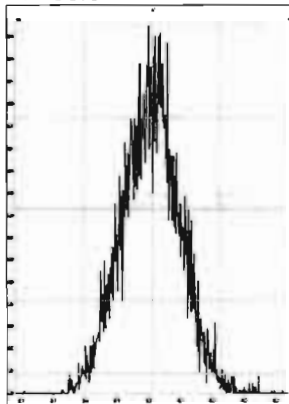
M 404.9760 R 11738



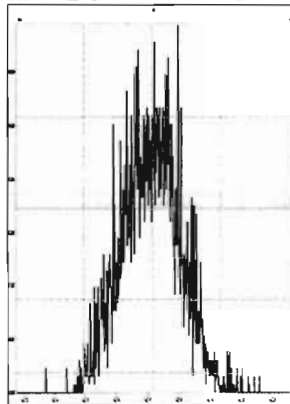
M 416.9760 R 12890



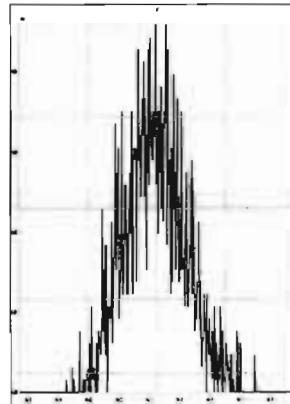
M 430.9728 R 11683



M 442.9728 R 11467



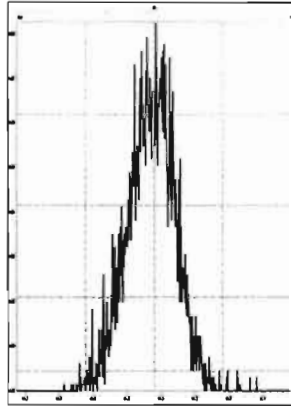
M 454.9728 R 12691



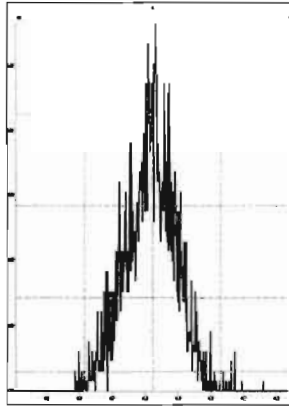
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, November 27, 2020 08:41:07 Pacific Standard Time

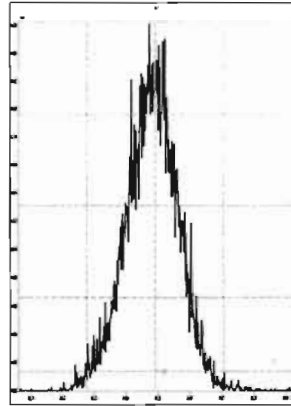
M 404.9760 R 13019



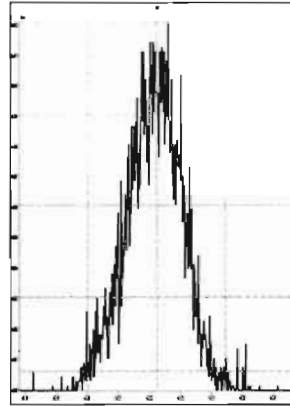
M 416.9760 R 14368



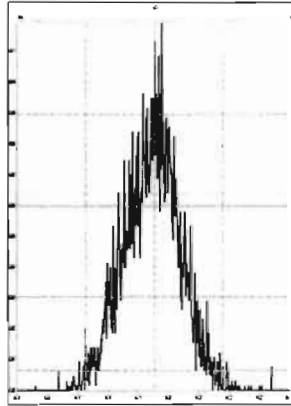
M 430.9728 R 11060



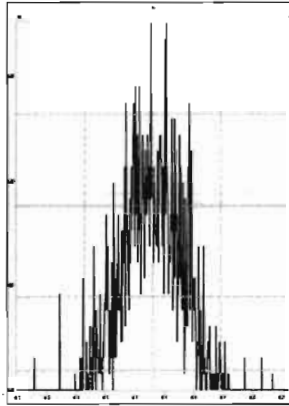
M 442.9728 R 11793



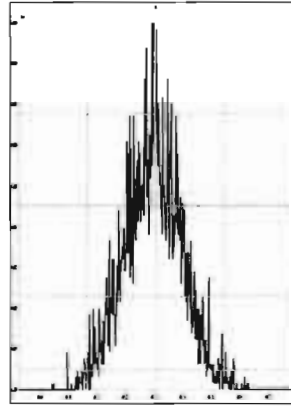
M 454.9728 R 11850



M 466.9728 R 15823



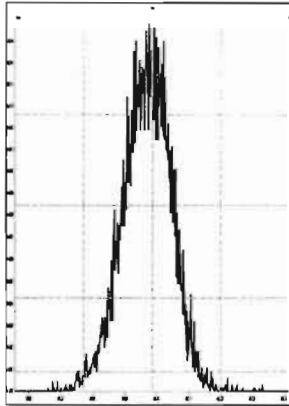
M 480.9696 R 11310



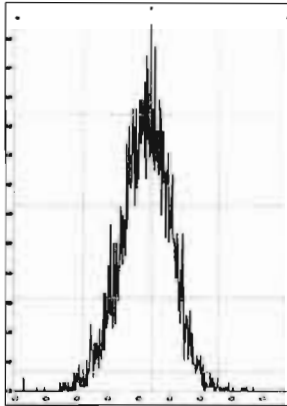
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, November 27, 2020 08:41:29 Pacific Standard Time

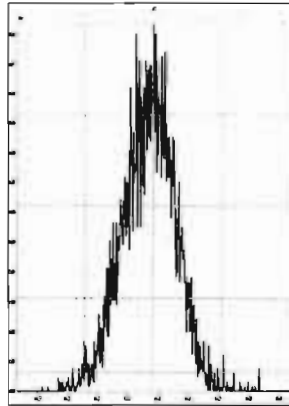
M 430.9728 R 12195



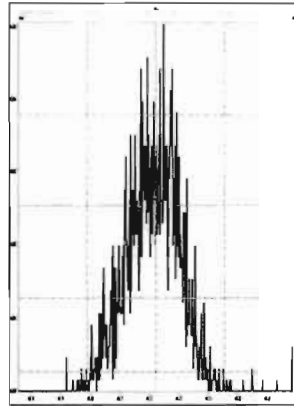
M 442.9728 R 12017



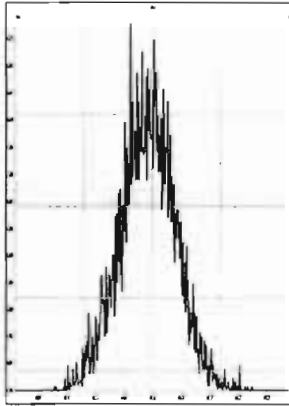
M 454.9728 R 12437



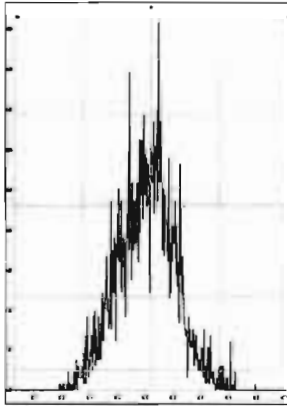
M 466.9728 R 13658



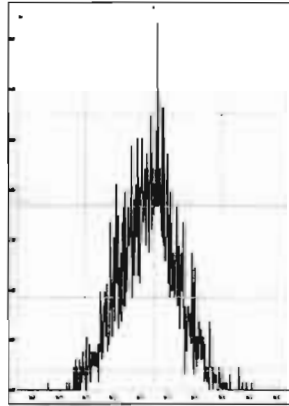
M 480.9696 R 11210



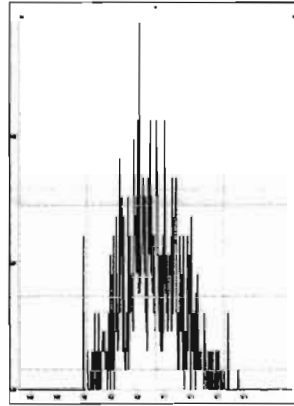
M 492.9696 R 11518



M 504.9696 R 12135



M 516.9697 R 18647



INITIAL CALIBRATION

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-CRV.qld

Last Altered: Tuesday, October 20, 2020 14:36:10 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:22:41 Pacific Daylight Time

GRB 10/20/20
HW 10/20/2020

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 20 Oct 2020 10:47:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 14:36:10

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

Response Factor: 0.950098

RRF SD: 0.10465, Relative SD: 11.0146

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	201020R1_1	0.250	0.81	NO	26.29	1.001	2.37e3	1.11e6	0.224	-10.3	0.852	MM
2	201020R1_2	0.500	0.75	NO	26.31	1.001	5.59e3	1.28e6	0.460	-8.0	0.874	bb
3	201020R1_3	2.00	0.75	NO	26.29	1.001	2.28e4	1.32e6	1.82	-8.9	0.866	bb
4	201020R1_4	40.0	0.77	NO	26.32	1.000	3.56e5	8.62e5	43.4	8.6	1.03	bb
5	201020R1_5	300	0.78	NO	26.29	1.001	4.63e6	1.39e6	350	16.7	1.11	bb
6	201020R1_6	10.0	0.76	NO	26.29	1.001	1.18e5	1.22e6	10.2	1.9	0.969	MM

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

Response Factor: 0.885499

RRF SD: 0.0848416, Relative SD: 9.58122

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	201020R1_1	1.25	0.59	NO	30.96	1.001	8.54e3	8.68e5	1.11	-11.0	0.788	bb
2	201020R1_2	2.50	0.63	NO	30.96	1.000	1.82e4	9.11e5	2.25	-9.8	0.798	bb
3	201020R1_3	10.0	0.61	NO	30.96	1.001	8.73e4	1.03e6	9.59	-4.1	0.849	bb
4	201020R1_4	200	0.62	NO	30.98	1.001	1.24e6	6.47e5	217	8.5	0.961	MM
5	201020R1_5	1500	0.62	NO	30.98	1.001	1.71e7	1.16e6	1670	11.0	0.983	bb
6	201020R1_6	50.0	0.62	NO	30.96	1.001	4.46e5	9.55e5	52.7	5.5	0.934	bb

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-CRV.qld

Last Altered: Tuesday, October 20, 2020 14:36:10 Pacific Daylight Time
 Printed: Tuesday, October 20, 2020 15:22:41 Pacific Daylight Time

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

Response Factor: 1.01755

RRF SD: 0.10207, Relative SD: 10.0309

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	201020R1_1	1.25	1.20	NO	34.28	1.000	6.99e3	6.21e5	1.11	-11.5	0.901	bd
2	201020R1_2	2.50	1.26	NO	34.27	1.000	1.48e4	6.65e5	2.19	-12.3	0.892	bd
3	201020R1_3	10.0	1.25	NO	34.28	1.001	7.13e4	7.07e5	9.91	-0.9	1.01	bd
4	201020R1_4	200	1.24	NO	34.29	1.000	1.04e6	4.71e5	218	8.9	1.11	bd
5	201020R1_5	1500	1.23	NO	34.28	1.000	1.49e7	8.81e5	1660	10.7	1.13	bd
6	201020R1_6	50.0	1.27	NO	34.28	1.000	3.59e5	6.72e5	52.5	5.0	1.07	bd

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

Response Factor: 0.914527

RRF SD: 0.0845585, Relative SD: 9.24614

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	201020R1_1	1.25	1.17	NO	34.41	1.001	7.95e3	7.36e5	1.18	-5.5	0.864	db
2	201020R1_2	2.50	1.28	NO	34.40	1.001	1.57e4	7.73e5	2.22	-11.1	0.813	db
3	201020R1_3	10.0	1.29	NO	34.40	1.001	7.37e4	8.70e5	9.27	-7.3	0.847	db
4	201020R1_4	200	1.25	NO	34.41	1.001	1.17e6	5.87e5	218	8.9	0.996	db
5	201020R1_5	1500	1.24	NO	34.40	1.000	1.55e7	1.02e6	1670	11.1	1.02	db
6	201020R1_6	50.0	1.26	NO	34.41	1.001	3.73e5	7.84e5	52.0	4.0	0.951	db

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

Response Factor: 0.934452

RRF SD: 0.104124, Relative SD: 11.1428

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	201020R1_1	1.25	1.17	NO	34.67	1.000	6.89e3	6.69e5	1.10	-11.8	0.824	bb
2	201020R1_2	2.50	1.24	NO	34.67	1.000	1.48e4	7.19e5	2.21	-11.8	0.825	bb

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-CRV.qld

Last Altered: Tuesday, October 20, 2020 14:36:10 Pacific Daylight Time
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Compound name: 1,2,3,7,8,9-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	201020R1_3	10.0	1.25	NO	34.66	1.000	7.04e4	8.01e5	9.42	-5.8	0.880	bb
4	201020R1_4	200	1.24	NO	34.69	1.000	1.07e6	5.18e5	222	10.9	1.04	bb
5	201020R1_5	1500	1.24	NO	34.67	1.000	1.48e7	9.42e5	1680	12.3	1.05	bb
6	201020R1_6	50.0	1.24	NO	34.67	1.000	3.59e5	7.24e5	53.1	6.2	0.992	bb

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

Response Factor: 0.869732
 RRF SD: 0.101922, Relative SD: 11.7188
 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	201020R1_1	1.25	1.01	NO	38.16	1.001	5.19e3	5.60e5	1.07	-14.6	0.742	bb
2	201020R1_2	2.50	1.00	NO	38.14	1.000	1.26e4	6.39e5	2.27	-9.4	0.788	bb
3	201020R1_3	10.0	1.06	NO	38.15	1.000	5.46e4	6.69e5	9.38	-6.2	0.816	bd
4	201020R1_4	200	1.03	NO	38.16	1.000	8.51e5	4.44e5	221	10.3	0.960	bb
5	201020R1_5	1500	1.03	NO	38.16	1.001	1.20e7	8.00e5	1720	14.6	0.997	bb
6	201020R1_6	50.0	1.01	NO	38.16	1.000	2.81e5	6.15e5	52.6	5.2	0.915	bb

Compound name: OCDD

Response Factor: 0.871682
 RRF SD: 0.0918681, Relative SD: 10.5392
 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	201020R1_1	2.50	0.91	NO	41.11	1.000	8.88e3	8.86e5	2.30	-8.0	0.802	MM
2	201020R1_2	5.00	0.83	NO	41.10	1.000	2.03e4	1.06e6	4.38	-12.3	0.764	bd
3	201020R1_3	20.0	0.91	NO	41.12	1.000	9.08e4	1.12e6	18.6	-7.0	0.811	bd
4	201020R1_4	400	0.89	NO	41.10	1.000	1.42e6	7.38e5	442	10.4	0.963	bb
5	201020R1_5	3000	0.87	NO	41.13	1.000	2.01e7	1.36e6	3380	12.8	0.983	bb
6	201020R1_6	100	0.88	NO	41.12	1.000	4.65e5	1.02e6	104	4.1	0.907	MM

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-CRV.qld

Last Altered: Tuesday, October 20, 2020 14:36:10 Pacific Daylight Time
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Compound name: 2,3,7,8-TCDF

Response Factor: 0.824288
 RRF SD: 0.0905517, Relative SD: 10.9854
 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	201020R1_1	0.250	0.75	NO	25.61	1.001	2.81e3	1.53e6	0.223	-11.0	0.734	MM
2	201020R1_2	0.500	0.74	NO	25.61	1.001	6.37e3	1.70e6	0.454	-9.1	0.749	MM
3	201020R1_3	2.00	0.77	NO	25.61	1.001	2.79e4	1.82e6	1.86	-7.2	0.765	bb
4	201020R1_4	40.0	0.75	NO	25.64	1.000	4.26e5	1.19e6	43.4	8.5	0.895	bb
5	201020R1_5	300	0.76	NO	25.61	1.001	5.36e6	1.86e6	349	16.4	0.959	bb
6	201020R1_6	10.0	0.75	NO	25.61	1.001	1.42e5	1.69e6	10.2	2.4	0.844	bb

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

Response Factor: 0.962587
 RRF SD: 0.0802385, Relative SD: 8.33572
 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	201020R1_1	1.25	1.60	NO	29.71	1.001	1.34e4	1.22e6	1.14	-8.9	0.877	bb
2	201020R1_2	2.50	1.55	NO	29.71	1.001	2.85e4	1.30e6	2.27	-9.4	0.872	bb
3	201020R1_3	10.0	1.60	NO	29.71	1.001	1.32e5	1.42e6	9.68	-3.2	0.932	bb
4	201020R1_4	200	1.56	NO	29.73	1.001	1.94e6	9.55e5	211	5.6	1.02	bd
5	201020R1_5	1500	1.55	NO	29.71	1.000	2.60e7	1.63e6	1660	10.5	1.06	bb
6	201020R1_6	50.0	1.57	NO	29.71	1.001	7.00e5	1.38e6	52.7	5.4	1.01	bb

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

Response Factor: 1.06841
 RRF SD: 0.0935936, Relative SD: 8.76011
 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	201020R1_1	1.25	1.58	NO	30.76	1.000	1.39e4	1.16e6	1.13	-9.8	0.964	bb
2	201020R1_2	2.50	1.59	NO	30.77	1.001	3.11e4	1.29e6	2.26	-9.6	0.966	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	201020R1_3	10.0	1.62	NO	30.75	1.000	1.51e5	1.45e6	9.71	-2.9	1.04	bb
4	201020R1_4	200	1.56	NO	30.77	1.000	2.12e6	9.27e5	214	7.1	1.14	bd
5	201020R1_5	1500	1.55	NO	30.77	1.001	2.83e7	1.59e6	1660	10.9	1.18	bb
6	201020R1_6	50.0	1.55	NO	30.76	1.000	7.58e5	1.36e6	52.1	4.2	1.11	bb

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

Response Factor: 0.953478
 RRF SD: 0.113056, Relative SD: 11.8572
 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	201020R1_1	1.25	1.21	NO	33.37	1.000	8.75e3	8.65e5	1.06	-15.1	0.809	bd
2	201020R1_2	2.50	1.22	NO	33.37	1.000	1.91e4	9.23e5	2.17	-13.2	0.828	bd
3	201020R1_3	10.0	1.23	NO	33.37	1.001	9.24e4	9.76e5	9.93	-0.7	0.947	bd
4	201020R1_4	200	1.22	NO	33.38	1.000	1.33e6	6.36e5	219	9.6	1.05	bd
5	201020R1_5	1500	1.22	NO	33.37	1.000	1.86e7	1.15e6	1690	12.9	1.08	bd
6	201020R1_6	50.0	1.23	NO	33.37	1.000	4.69e5	9.24e5	53.2	6.4	1.01	bd

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

Response Factor: 1.00798
 RRF SD: 0.112388, Relative SD: 11.1498
 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	201020R1_1	1.25	1.18	NO	33.50	1.000	1.00e4	9.15e5	1.08	-13.2	0.875	db
2	201020R1_2	2.50	1.29	NO	33.50	1.000	2.13e4	9.59e5	2.20	-11.9	0.888	db
3	201020R1_3	10.0	1.23	NO	33.50	1.001	1.00e5	1.03e6	9.63	-3.7	0.971	db
4	201020R1_4	200	1.22	NO	33.51	1.000	1.55e6	6.96e5	221	10.5	1.11	db
5	201020R1_5	1500	1.22	NO	33.50	1.000	2.04e7	1.21e6	1680	11.7	1.13	db
6	201020R1_6	50.0	1.23	NO	33.50	1.000	5.13e5	9.53e5	53.3	6.7	1.08	db

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

Response Factor: 0.990683

RRF SD: 0.116635, Relative SD: 11.7732

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	201020R1_1	1.25	1.19	NO	34.18	1.001	8.93e3	8.28e5	1.09	-12.9	0.863	bb
2	201020R1_2	2.50	1.24	NO	34.17	1.000	1.87e4	8.79e5	2.15	-13.9	0.853	bb
3	201020R1_3	10.0	1.27	NO	34.17	1.001	9.17e4	9.58e5	9.66	-3.4	0.957	bb
4	201020R1_4	200	1.23	NO	34.18	1.000	1.37e6	6.32e5	219	9.6	1.09	bb
5	201020R1_5	1500	1.22	NO	34.17	1.000	1.87e7	1.11e6	1700	13.3	1.12	bb
6	201020R1_6	50.0	1.22	NO	34.18	1.001	4.65e5	8.75e5	53.6	7.3	1.06	bb

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

Response Factor: 0.950625

RRF SD: 0.11684, Relative SD: 12.2908

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	201020R1_1	1.25	1.23	NO	35.18	1.001	7.16e3	6.87e5	1.10	-12.3	0.834	bb
2	201020R1_2	2.50	1.20	NO	35.18	1.001	1.62e4	7.96e5	2.14	-14.5	0.813	bb
3	201020R1_3	10.0	1.19	NO	35.17	1.001	7.41e4	8.23e5	9.48	-5.2	0.901	bb
4	201020R1_4	200	1.23	NO	35.19	1.001	1.15e6	5.57e5	217	8.6	1.03	bb
5	201020R1_5	1500	1.23	NO	35.18	1.001	1.60e7	9.75e5	1720	14.8	1.09	bb
6	201020R1_6	50.0	1.25	NO	35.18	1.000	3.95e5	7.65e5	54.3	8.6	1.03	bb

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

Response Factor: 0.998573

RRF SD: 0.149251, Relative SD: 14.9464

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	201020R1_1	1.25	0.94	NO	36.74	1.000	6.80e3	6.49e5	1.05	-16.2	0.837	bb
2	201020R1_2	2.50	0.96	NO	36.73	1.000	1.54e4	7.21e5	2.13	-14.7	0.852	bb

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	201020R1_3	10.0	0.99	NO	36.74	1.000	7.28e4	8.00e5	9.11	-8.9	0.909	bb
4	201020R1_4	200	1.01	NO	36.76	1.000	1.11e6	4.85e5	230	14.9	1.15	bb
5	201020R1_5	1500	1.01	NO	36.76	1.001	1.52e7	8.73e5	1750	16.3	1.16	bb
6	201020R1_6	50.0	1.01	NO	36.76	1.000	3.78e5	6.97e5	54.2	8.5	1.08	bb

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

Response Factor: 1.12384
 RRF SD: 0.136934, Relative SD: 12.1845
 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	201020R1_1	1.25	1.02	NO	38.77	1.000	5.83e3	4.78e5	1.08	-13.2	0.975	MM
2	201020R1_2	2.50	1.00	NO	38.77	1.000	1.44e4	5.79e5	2.21	-11.4	0.995	MM
3	201020R1_3	10.0	1.02	NO	38.77	1.000	5.99e4	5.77e5	9.23	-7.7	1.04	bb
4	201020R1_4	200	1.01	NO	38.77	1.000	9.50e5	3.83e5	220	10.2	1.24	bb
5	201020R1_5	1500	1.00	NO	38.78	1.000	1.36e7	7.02e5	1720	14.8	1.29	bb
6	201020R1_6	50.0	1.01	NO	38.78	1.000	3.25e5	5.39e5	53.7	7.4	1.21	bb

Compound name: OCDF

Response Factor: 0.868237
 RRF SD: 0.10594, Relative SD: 12.2017
 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	201020R1_1	2.50	0.84	NO	41.38	1.000	9.82e3	1.05e6	2.16	-13.7	0.749	MM
2	201020R1_2	5.00	0.90	NO	41.39	1.000	2.31e4	1.24e6	4.32	-13.7	0.750	MM
3	201020R1_3	20.0	0.88	NO	41.40	1.000	1.08e5	1.29e6	19.3	-3.6	0.837	bb
4	201020R1_4	400	0.89	NO	41.39	1.000	1.66e6	8.74e5	439	9.7	0.952	bb
5	201020R1_5	3000	0.89	NO	41.41	1.000	2.39e7	1.60e6	3450	14.9	0.998	bb
6	201020R1_6	100	0.87	NO	41.41	1.000	5.43e5	1.18e6	106	6.4	0.924	bb

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

Response Factor: 1.10889

RRF SD: 0.0354221, Relative SD: 3.19438

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	201020R1_1	100	0.79	NO	26.27	1.030	1.11e6	1.05e6	95.9	-4.1	1.06	bb
2	201020R1_2	100	0.79	NO	26.27	1.030	1.28e6	1.12e6	103	2.6	1.14	bd
3	201020R1_3	100	0.79	NO	26.27	1.030	1.32e6	1.18e6	100	0.5	1.11	bb
4	201020R1_4	100	0.78	NO	26.31	1.030	8.62e5	7.98e5	97.4	-2.6	1.08	bb
5	201020R1_5	100	0.79	NO	26.27	1.030	1.39e6	1.20e6	104	4.4	1.16	bb
6	201020R1_6	100	0.78	NO	26.27	1.030	1.22e6	1.11e6	99.1	-0.9	1.10	bb

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

Response Factor: 0.858504

RRF SD: 0.0583655, Relative SD: 6.79851

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	201020R1_1	100	0.62	NO	30.94	1.212	8.68e5	1.05e6	96.7	-3.3	0.830	bb
2	201020R1_2	100	0.63	NO	30.96	1.213	9.11e5	1.12e6	94.4	-5.6	0.811	bb
3	201020R1_3	100	0.63	NO	30.94	1.212	1.03e6	1.18e6	101	1.4	0.871	bb
4	201020R1_4	100	0.62	NO	30.96	1.212	6.47e5	7.98e5	94.5	-5.5	0.811	MM
5	201020R1_5	100	0.63	NO	30.96	1.213	1.16e6	1.20e6	112	12.5	0.966	bb
6	201020R1_6	100	0.63	NO	30.94	1.212	9.55e5	1.11e6	100	0.5	0.863	bb

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

Response Factor: 0.699736

RRF SD: 0.0536682, Relative SD: 7.66977

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	201020R1_1	100	1.28	NO	34.27	1.014	6.21e5	9.36e5	94.9	-5.1	0.664	bd
2	201020R1_2	100	1.27	NO	34.27	1.014	6.65e5	9.80e5	97.0	-3.0	0.679	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	201020R1_3	100	1.29	NO	34.26	1.014	7.07e5	1.05e6	96.3	-3.7	0.674	bd
4	201020R1_4	100	1.27	NO	34.28	1.014	4.71e5	6.87e5	98.1	-1.9	0.686	bd
5	201020R1_5	100	1.28	NO	34.27	1.014	8.81e5	1.09e6	115	15.4	0.808	bd
6	201020R1_6	100	1.28	NO	34.27	1.014	6.72e5	9.76e5	98.4	-1.6	0.688	bd

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

Response Factor: 0.832718

RRF SD: 0.0561256, Relative SD: 6.74005

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	201020R1_1	100	1.27	NO	34.38	1.017	7.36e5	9.36e5	94.5	-5.5	0.787	db
2	201020R1_2	100	1.27	NO	34.38	1.017	7.73e5	9.80e5	94.7	-5.3	0.789	db
3	201020R1_3	100	1.29	NO	34.38	1.017	8.70e5	1.05e6	99.5	-0.5	0.829	db
4	201020R1_4	100	1.28	NO	34.39	1.017	5.87e5	6.87e5	103	2.5	0.854	db
5	201020R1_5	100	1.26	NO	34.39	1.018	1.02e6	1.09e6	112	12.2	0.935	db
6	201020R1_6	100	1.27	NO	34.39	1.018	7.84e5	9.76e5	96.5	-3.5	0.803	db

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

Response Factor: 0.761805

RRF SD: 0.0524899, Relative SD: 6.8902

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	201020R1_1	100	1.24	NO	34.66	1.026	6.69e5	9.36e5	93.9	-6.1	0.715	bb
2	201020R1_2	100	1.21	NO	34.66	1.026	7.19e5	9.80e5	96.3	-3.7	0.733	bb
3	201020R1_3	100	1.23	NO	34.65	1.025	8.01e5	1.05e6	100	0.1	0.763	bb
4	201020R1_4	100	1.27	NO	34.67	1.026	5.18e5	6.87e5	99.1	-0.9	0.755	MM
5	201020R1_5	100	1.24	NO	34.66	1.026	9.42e5	1.09e6	113	13.3	0.863	MM
6	201020R1_6	100	1.25	NO	34.66	1.026	7.24e5	9.76e5	97.4	-2.6	0.742	bb

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

Response Factor: 0.649564
 RRF SD: 0.0451664, Relative SD: 6.95334
 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	201020R1_1	100	1.05	NO	38.14	1.128	5.60e5	9.36e5	92.1	-7.9	0.598	bb
2	201020R1_2	100	1.09	NO	38.14	1.128	6.39e5	9.80e5	100	0.4	0.652	MM
3	201020R1_3	100	1.04	NO	38.14	1.128	6.69e5	1.05e6	98.2	-1.8	0.638	bb
4	201020R1_4	100	1.07	NO	38.15	1.128	4.44e5	6.87e5	99.4	-0.6	0.646	MM
5	201020R1_5	100	1.07	NO	38.14	1.128	8.00e5	1.09e6	113	12.9	0.733	MM
6	201020R1_6	100	1.04	NO	38.15	1.129	6.15e5	9.76e5	97.0	-3.0	0.630	MM

Compound name: 13C-OCDD

Response Factor: 0.539367
 RRF SD: 0.0489023, Relative SD: 9.06662
 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	201020R1_1	200	0.92	NO	41.10	1.216	8.86e5	9.36e5	175	-12.3	0.473	bb
2	201020R1_2	200	0.90	NO	41.08	1.216	1.06e6	9.80e5	201	0.4	0.542	bb
3	201020R1_3	200	0.89	NO	41.11	1.216	1.12e6	1.05e6	198	-1.0	0.534	bb
4	201020R1_4	200	0.88	NO	41.08	1.215	7.38e5	6.87e5	199	-0.4	0.537	bb
5	201020R1_5	200	0.89	NO	41.10	1.216	1.36e6	1.09e6	232	15.9	0.625	bb
6	201020R1_6	200	0.89	NO	41.10	1.216	1.02e6	9.76e5	195	-2.6	0.525	bb

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

Response Factor: 0.981384
 RRF SD: 0.0297957, Relative SD: 3.03609
 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	201020R1_1	100	0.78	NO	25.59	1.003	1.53e6	1.65e6	94.6	-5.4	0.928	bb
2	201020R1_2	100	0.77	NO	25.59	1.003	1.70e6	1.75e6	99.3	-0.7	0.974	bb

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-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	201020R1_3	100	0.77	NO	25.59	1.003	1.82e6	1.83e6	101	1.3	0.994	bb
4	201020R1_4	100	0.77	NO	25.63	1.003	1.19e6	1.22e6	99.5	-0.5	0.976	bb
5	201020R1_5	100	0.78	NO	25.59	1.003	1.86e6	1.84e6	103	3.0	1.01	bb
6	201020R1_6	100	0.78	NO	25.59	1.003	1.69e6	1.68e6	102	2.3	1.00	bb

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

Response Factor: 0.791688

RRF SD: 0.0545703, Relative SD: 6.89291

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	201020R1_1	100	1.58	NO	29.69	1.163	1.22e6	1.65e6	93.5	-6.5	0.740	bb
2	201020R1_2	100	1.58	NO	29.69	1.163	1.30e6	1.75e6	94.3	-5.7	0.747	bb
3	201020R1_3	100	1.61	NO	29.69	1.163	1.42e6	1.83e6	97.5	-2.5	0.772	bb
4	201020R1_4	100	1.61	NO	29.71	1.163	9.55e5	1.22e6	99.0	-1.0	0.784	bd
5	201020R1_5	100	1.58	NO	29.71	1.164	1.63e6	1.84e6	112	11.9	0.886	bb
6	201020R1_6	100	1.59	NO	29.69	1.163	1.38e6	1.68e6	104	3.7	0.821	bb

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

Response Factor: 0.777714

RRF SD: 0.0578231, Relative SD: 7.435

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	201020R1_1	100	1.59	NO	30.76	1.205	1.15e6	1.65e6	90.1	-9.9	0.701	bb
2	201020R1_2	100	1.61	NO	30.75	1.205	1.29e6	1.75e6	94.8	-5.2	0.737	bb
3	201020R1_3	100	1.62	NO	30.75	1.205	1.45e6	1.83e6	102	1.9	0.793	bb
4	201020R1_4	100	1.60	NO	30.77	1.205	9.27e5	1.22e6	97.8	-2.2	0.761	dd
5	201020R1_5	100	1.60	NO	30.75	1.205	1.59e6	1.84e6	111	11.2	0.865	bb
6	201020R1_6	100	1.60	NO	30.76	1.205	1.36e6	1.68e6	104	4.1	0.810	bb

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-CRV.qld

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

Response Factor: 0.953706
 RRF SD: 0.0497892, Relative SD: 5.22061
 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	201020R1_1	100	0.51	NO	33.36	0.987	8.65e5	9.36e5	96.9	-3.1	0.924	bd
2	201020R1_2	100	0.51	NO	33.36	0.987	9.23e5	9.80e5	98.8	-1.2	0.942	bd
3	201020R1_3	100	0.51	NO	33.35	0.987	9.76e5	1.05e6	97.5	-2.5	0.930	bd
4	201020R1_4	100	0.51	NO	33.37	0.987	6.36e5	6.87e5	97.1	-2.9	0.926	bd
5	201020R1_5	100	0.51	NO	33.36	0.987	1.15e6	1.09e6	110	10.5	1.05	bd
6	201020R1_6	100	0.51	NO	33.36	0.987	9.24e5	9.76e5	99.3	-0.7	0.947	bd

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

Response Factor: 1.00595
 RRF SD: 0.0507361, Relative SD: 5.04362
 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	201020R1_1	100	0.50	NO	33.49	0.991	9.15e5	9.36e5	97.2	-2.8	0.978	db
2	201020R1_2	100	0.52	NO	33.49	0.991	9.59e5	9.80e5	97.3	-2.7	0.979	db
3	201020R1_3	100	0.52	NO	33.48	0.991	1.03e6	1.05e6	97.7	-2.3	0.982	db
4	201020R1_4	100	0.51	NO	33.50	0.991	6.96e5	6.87e5	101	0.8	1.01	db
5	201020R1_5	100	0.51	NO	33.49	0.991	1.21e6	1.09e6	110	9.9	1.11	db
6	201020R1_6	100	0.51	NO	33.49	0.991	9.53e5	9.76e5	97.1	-2.9	0.977	db

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

Response Factor: 0.921049
 RRF SD: 0.0481045, Relative SD: 5.2228
 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	201020R1_1	100	0.52	NO	34.16	1.011	8.28e5	9.36e5	96.1	-3.9	0.885	bd
2	201020R1_2	100	0.51	NO	34.16	1.011	8.79e5	9.80e5	97.4	-2.6	0.897	bb

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-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	201020R1_3	100	0.51	NO	34.15	1.010	9.58e5	1.05e6	99.1	-0.9	0.913	bb
4	201020R1_4	100	0.51	NO	34.17	1.011	6.32e5	6.87e5	99.8	-0.2	0.919	bb
5	201020R1_5	100	0.51	NO	34.16	1.011	1.11e6	1.09e6	110	10.3	1.02	bb
6	201020R1_6	100	0.50	NO	34.16	1.011	8.75e5	9.76e5	97.3	-2.7	0.897	bb

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

Response Factor: 0.803358
 RRF SD: 0.0529087, Relative SD: 6.58594
 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	201020R1_1	100	0.51	NO	35.16	1.040	6.87e5	9.36e5	91.4	-8.6	0.734	MM
2	201020R1_2	100	0.50	NO	35.16	1.040	7.96e5	9.80e5	101	1.1	0.813	bb
3	201020R1_3	100	0.52	NO	35.15	1.040	8.23e5	1.05e6	97.6	-2.4	0.784	bd
4	201020R1_4	100	0.50	NO	35.17	1.040	5.57e5	6.87e5	101	1.0	0.811	bd
5	201020R1_5	100	0.51	NO	35.16	1.040	9.75e5	1.09e6	111	11.3	0.894	bb
6	201020R1_6	100	0.51	NO	35.17	1.041	7.65e5	9.76e5	97.6	-2.4	0.784	bb

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

Response Factor: 0.735455
 RRF SD: 0.0398884, Relative SD: 5.42364
 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	201020R1_1	100	0.42	NO	36.73	1.087	6.49e5	9.36e5	94.3	-5.7	0.694	bb
2	201020R1_2	100	0.44	NO	36.73	1.087	7.21e5	9.80e5	100	0.0	0.736	bd
3	201020R1_3	100	0.41	NO	36.73	1.087	8.00e5	1.05e6	104	3.6	0.762	bb
4	201020R1_4	100	0.43	NO	36.75	1.087	4.85e5	6.87e5	96.0	-4.0	0.706	bb
5	201020R1_5	100	0.44	NO	36.74	1.087	8.73e5	1.09e6	109	8.8	0.800	bb
6	201020R1_6	100	0.43	NO	36.75	1.087	6.97e5	9.76e5	97.2	-2.8	0.715	bb

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-CRV.qld

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

Response Factor: 0.567644
 RRF SD: 0.0450507, Relative SD: 7.93644
 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	201020R1_1	100	0.44	NO	38.76	1.147	4.78e5	9.36e5	90.0	-10.0	0.511	bd
2	201020R1_2	100	0.43	NO	38.76	1.147	5.79e5	9.80e5	104	4.1	0.591	bb
3	201020R1_3	100	0.44	NO	38.76	1.147	5.77e5	1.05e6	96.9	-3.1	0.550	bd
4	201020R1_4	100	0.43	NO	38.76	1.147	3.83e5	6.87e5	98.3	-1.7	0.558	bd
5	201020R1_5	100	0.43	NO	38.77	1.147	7.02e5	1.09e6	113	13.4	0.644	bb
6	201020R1_6	100	0.45	NO	38.77	1.147	5.39e5	9.76e5	97.3	-2.7	0.552	bd

Compound name: 13C-OCDF

Response Factor: 0.629245
 RRF SD: 0.0574861, Relative SD: 9.13572
 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	201020R1_1	200	0.91	NO	41.38	1.224	1.05e6	9.36e5	178	-11.0	0.560	MM
2	201020R1_2	200	0.87	NO	41.38	1.224	1.24e6	9.80e5	200	0.2	0.630	MM
3	201020R1_3	200	0.90	NO	41.40	1.225	1.29e6	1.05e6	195	-2.5	0.614	bd
4	201020R1_4	200	0.86	NO	41.38	1.224	8.74e5	6.87e5	202	1.1	0.636	bb
5	201020R1_5	200	0.88	NO	41.40	1.225	1.60e6	1.09e6	233	16.5	0.733	bb
6	201020R1_6	200	0.90	NO	41.39	1.225	1.18e6	9.76e5	191	-4.3	0.602	bd

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

Response Factor: 1.08781
 RRF SD: 0.174332, Relative SD: 16.0259
 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	201020R1_1	0.250			26.29	1.030	2.24e3	1.05e6	0.197	-21.1	0.858	bb
2	201020R1_2	0.500			26.29	1.030	5.14e3	1.12e6	0.420	-15.9	0.915	bb

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-CRV.qld

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	201020R1_3	2.00			26.29	1.030	2.59e4	1.18e6	2.02	0.8	1.10	bb
4	201020R1_4	40.0			26.32	1.031	3.82e5	7.98e5	44.0	10.0	1.20	bb
5	201020R1_5	200			26.29	1.030	3.17e6	1.20e6	243	21.4	1.32	bb
6	201020R1_6	10.0			26.29	1.030	1.26e5	1.11e6	10.5	4.8	1.14	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
1	201020R1_1	100	0.78	NO	25.52	1.000	1.05e6	1.05e6	100	0.0	1.00	bb
2	201020R1_2	100	0.79	NO	25.52	1.000	1.12e6	1.12e6	100	0.0	1.00	bb
3	201020R1_3	100	0.78	NO	25.52	1.000	1.18e6	1.18e6	100	0.0	1.00	bb
4	201020R1_4	100	0.77	NO	25.54	1.000	7.98e5	7.98e5	100	0.0	1.00	bb
5	201020R1_5	100	0.78	NO	25.52	1.000	1.20e6	1.20e6	100	0.0	1.00	bb
6	201020R1_6	100	0.79	NO	25.52	1.000	1.11e6	1.11e6	100	0.0	1.00	bb

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	201020R1_1	100	0.80	NO	24.04	1.000	1.65e6	1.65e6	100	0.0	1.00	bb
2	201020R1_2	100	0.79	NO	24.06	1.000	1.75e6	1.75e6	100	0.0	1.00	bb
3	201020R1_3	100	0.79	NO	24.04	1.000	1.83e6	1.83e6	100	0.0	1.00	bb
4	201020R1_4	100	0.79	NO	24.07	1.000	1.22e6	1.22e6	100	0.0	1.00	bb
5	201020R1_5	100	0.79	NO	24.04	1.000	1.84e6	1.84e6	100	0.0	1.00	bb
6	201020R1_6	100	0.79	NO	24.04	1.000	1.68e6	1.68e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-CRV.qld

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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	201020R1_1	100	0.51	NO	33.80	1.000	9.36e5	9.36e5	100	0.0	1.00	bb
2	201020R1_2	100	0.52	NO	33.80	1.000	9.80e5	9.80e5	100	0.0	1.00	bb
3	201020R1_3	100	0.51	NO	33.80	1.000	1.05e6	1.05e6	100	0.0	1.00	bb
4	201020R1_4	100	0.51	NO	33.81	1.000	6.87e5	6.87e5	100	0.0	1.00	bb
5	201020R1_5	100	0.51	NO	33.80	1.000	1.09e6	1.09e6	100	0.0	1.00	bb
6	201020R1_6	100	0.52	NO	33.80	1.000	9.76e5	9.76e5	100	0.0	1.00	bd

Dataset: Untitled

Last Altered: Wednesday, October 21, 2020 06:53:54 Pacific Daylight Time

Printed: Wednesday, October 21, 2020 06:54:05 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-10-10-20.mdb 12 Oct 2020 11:06:31

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

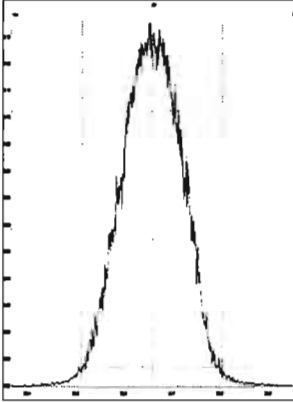
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3	201020R1_3	ST201020R1_3 1613 CS2 20F1104	20-Oct-20	10:48:17
4	201020R1_4	ST201020R1_4 1613 CS4 20F1106	20-Oct-20	11:32:31
5	201020R1_5	ST201020R1_5 1613 CS5 20F1107	20-Oct-20	12:16:56
6	201020R1_6	ST201020R1_6 1613 CS3 20F1105	20-Oct-20	13:01:38
7	201020R1_7	SOLVENT BLANK	20-Oct-20	13:45:46
8	201020R1_8	SS201020R1_1 1613 SSS 20F1108	20-Oct-20	14:29:33
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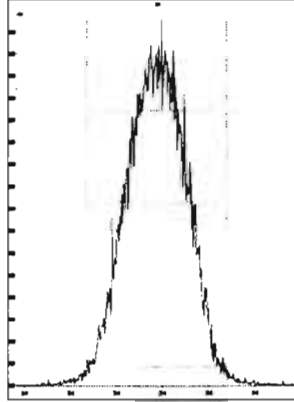
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Printed: Tuesday, October 20, 2020 09:00:19 Pacific Daylight Time

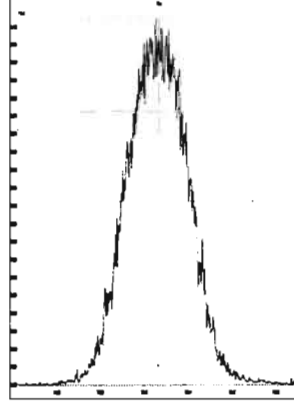
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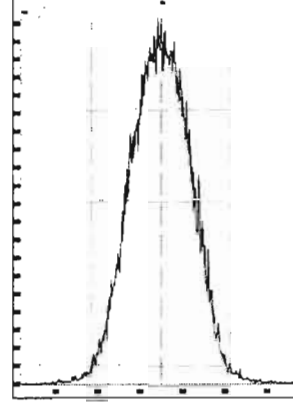
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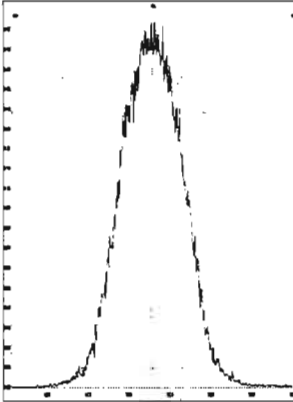
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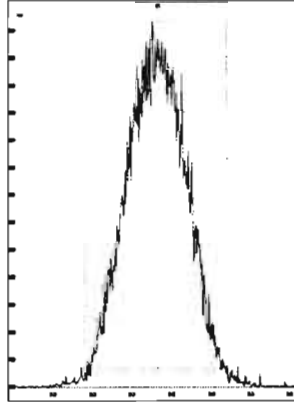
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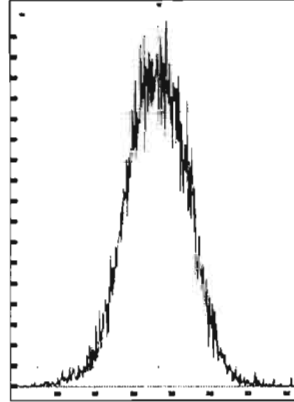
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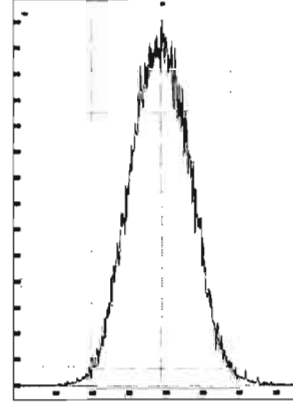
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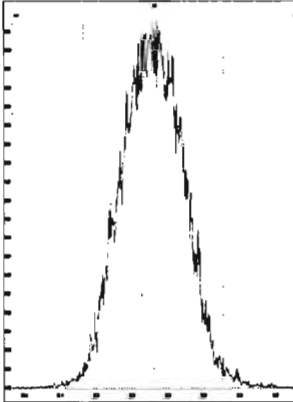
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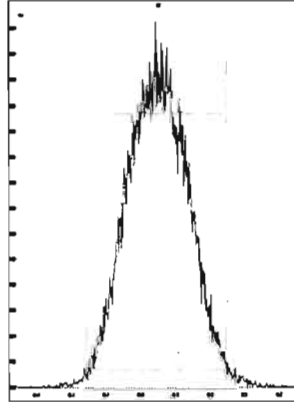
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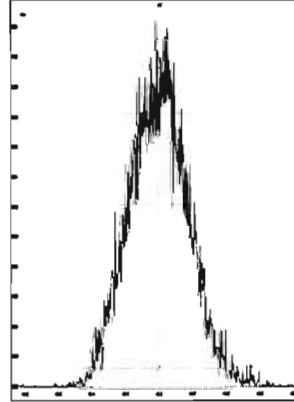
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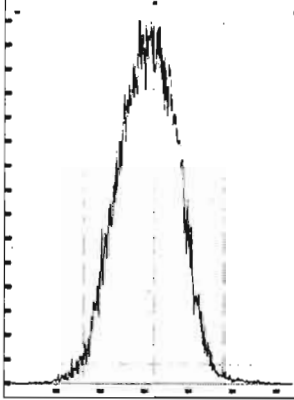
M 416.9760 R 10914



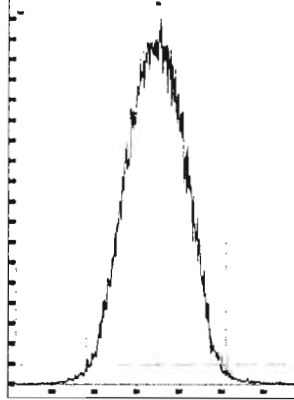
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, October 20, 2020 09:01:23 Pacific Daylight Time

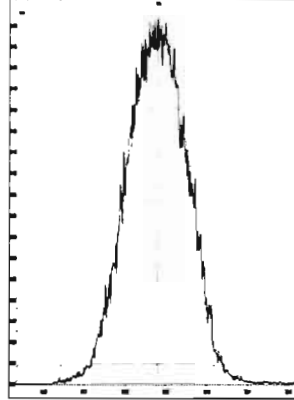
M 318.9792 R 10548



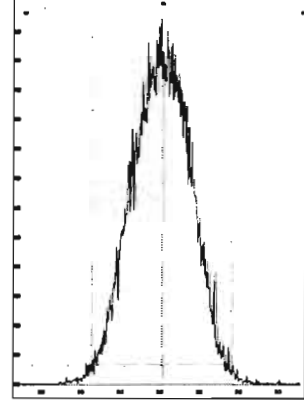
M 330.9792 R 10680



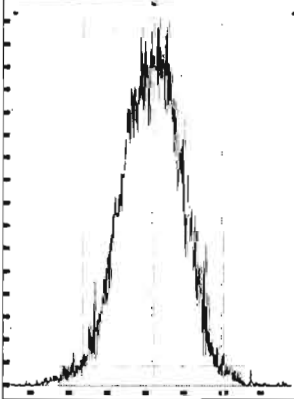
M 342.9792 R 10547



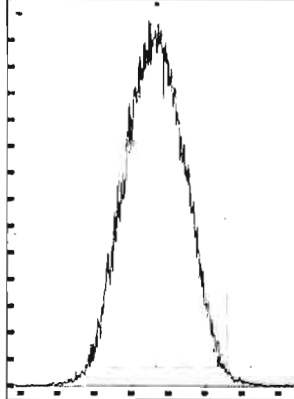
M 354.9792 R 10731



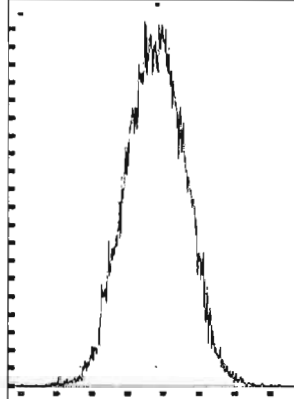
M 366.9792 R 10287



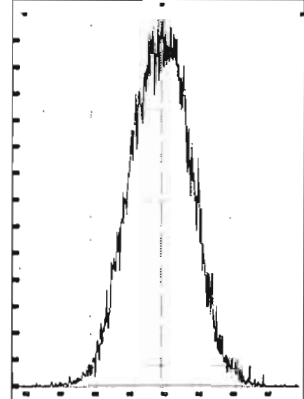
M 380.9760 R 10370



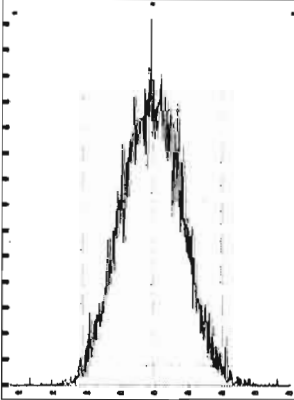
M 392.9760 R 10203



M 404.9760 R 10639



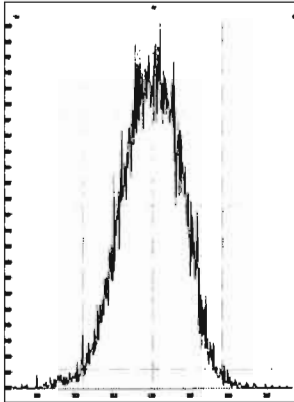
M 416.9760 R 11060



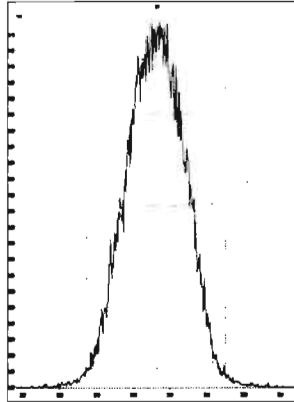
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, October 20, 2020 09:02:28 Pacific Daylight Time

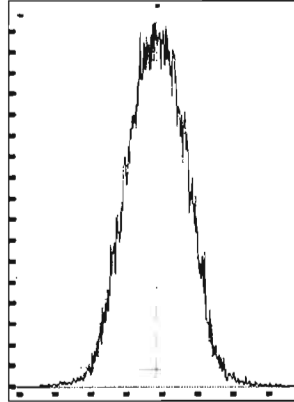
M 366.9792 R 10592



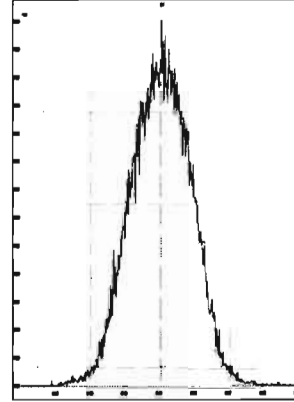
M 380.9760 R 10962



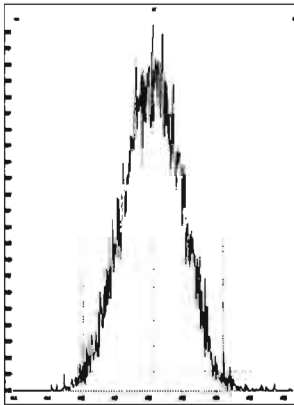
M 392.9760 R 11012



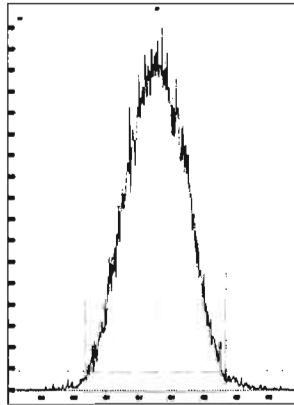
M 404.9760 R 10549



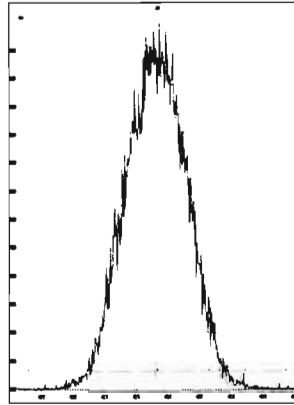
M 416.9760 R 11213



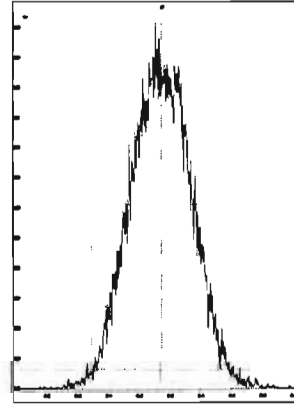
M 430.9728 R 10549



M 442.9728 R 10640



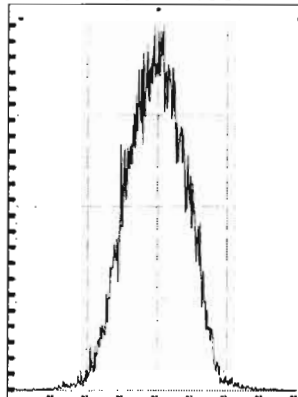
M 454.9728 R 10246



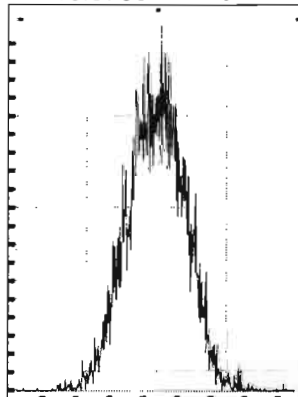
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, October 20, 2020 09:03:26 Pacific Daylight Time

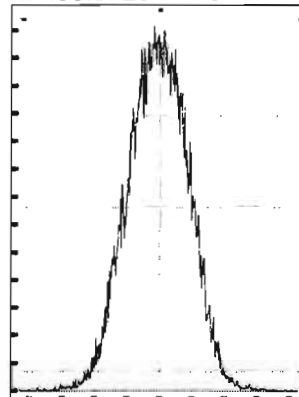
M 404.9760 R 10871



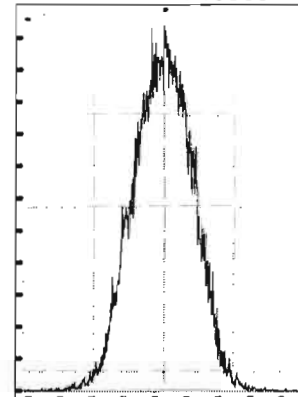
M 416.9760 R 11520



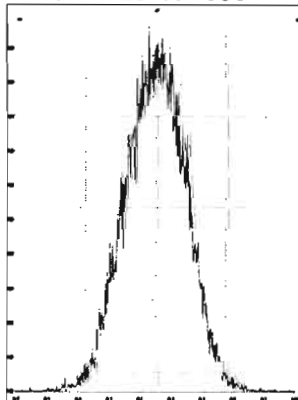
M 430.9728 R 10727



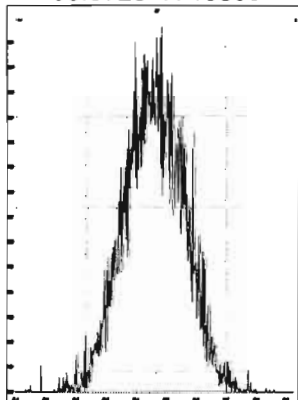
M 442.9728 R 10869



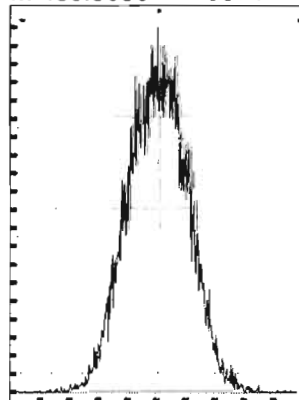
M 454.9728 R 10591



M 466.9728 R 10869



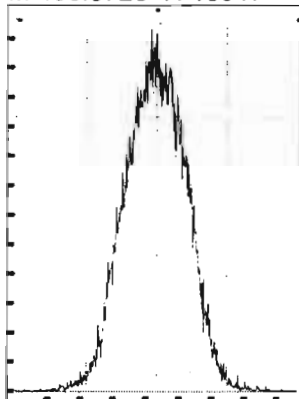
M 480.9696 R 10371



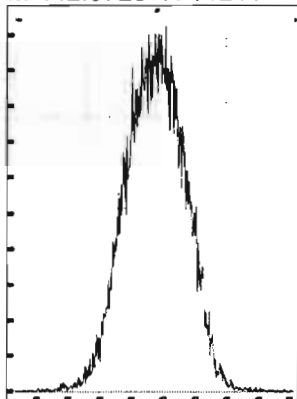
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, October 20, 2020 09:04:30 Pacific Daylight Time

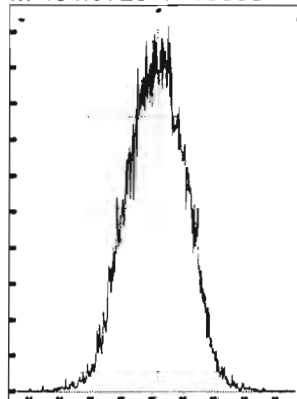
M 430.9728 R 10547



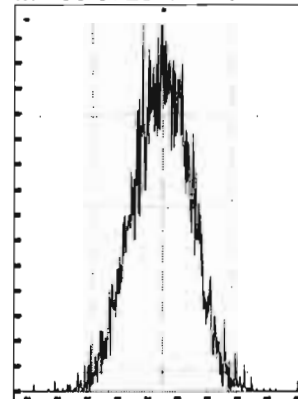
M 442.9728 R 11211



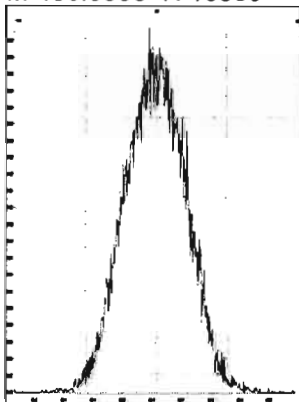
M 454.9728 R 10868



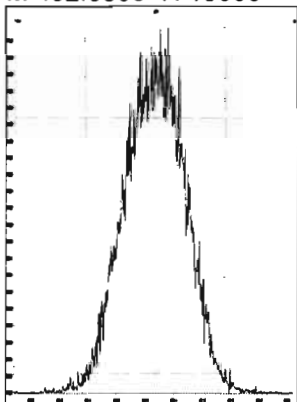
M 466.9728 R 11849



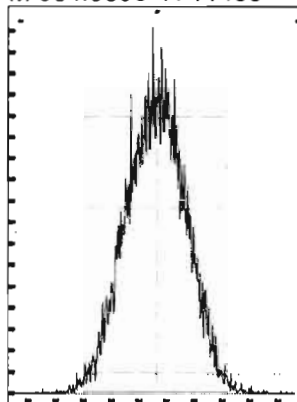
M 480.9696 R 10683



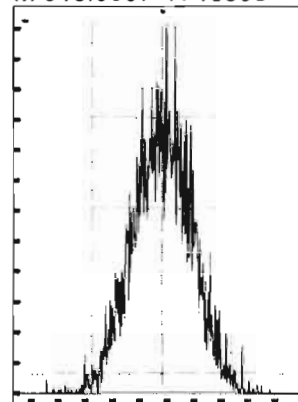
M 492.9696 R 10505



M 504.9696 R 11466



M 516.9697 R 10638



Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 14:59:30 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 14:59:49 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 20 Sep 2020 10:23:28
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

Name: 201020R1_6, Date: 20-Oct-2020, Time: 13:01:38, ID: ST201020R1_6 1613 CS3 20F1105, Description: 1613 CS3 20F1105

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.55
2	2 1,2,8,9-TCDD (Last)	27.18
3	3 1,2,4,7,9-PeCDD (First)	28.70
4	4 1,2,3,8,9-PeCDD (Last)	31.32
5	5 1,2,4,6,7,9-HxCDD (First)	32.63
6	6 1,2,3,7,8,9-HxCDD (Last)	34.67
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.15
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.16
9	9 1,3,6,8-TCDF (First)	20.32
10	10 1,2,8,9-TCDF (Last)	27.49
11	11 1,3,4,6,8-PeCDF (First)	27.06
12	12 1,2,3,8,9-PeCDF (Last)	31.68
13	13 1,2,3,4,6,8-HxCDF (First)	32.10
14	14 1,2,3,7,8,9-HxCDF (Last)	35.18
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.76
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.78

Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 14:59:30 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 14:59:49 Pacific Daylight Time

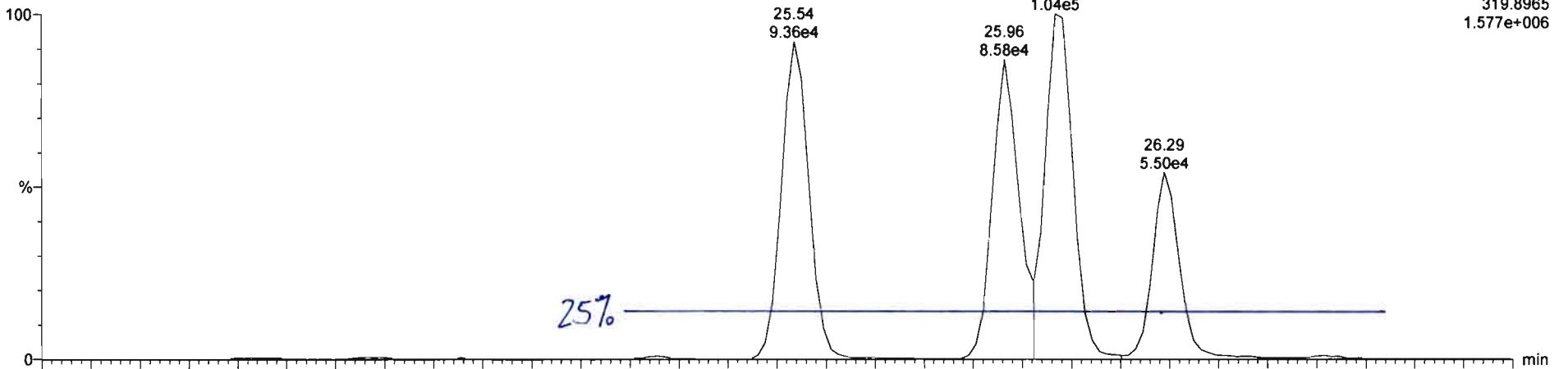
GRS 10/20/20
HN 10/22/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 20 Sep 2020 10:23:28
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

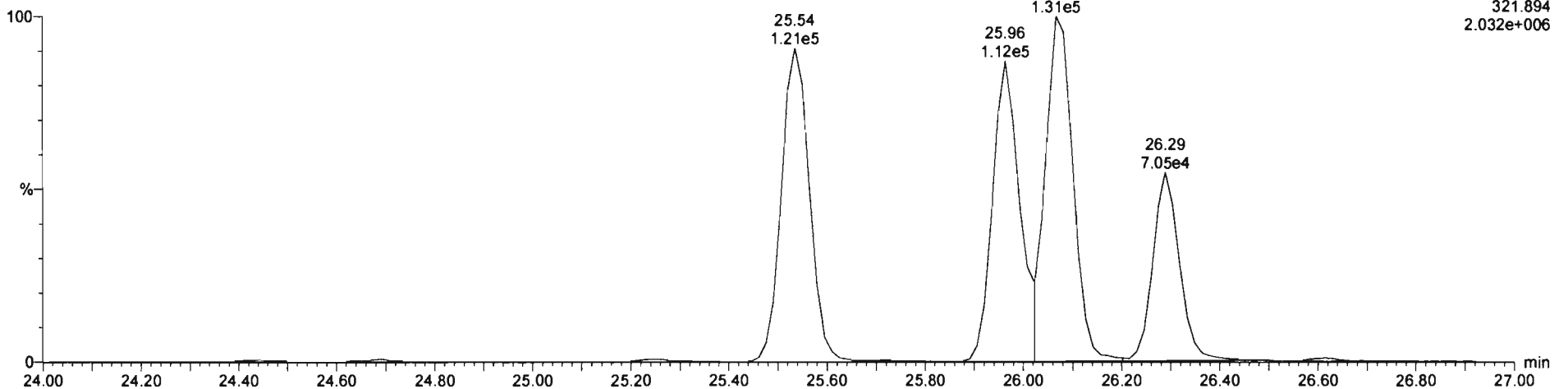
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1,3,6,8-TCDD (First)

201020R1_6

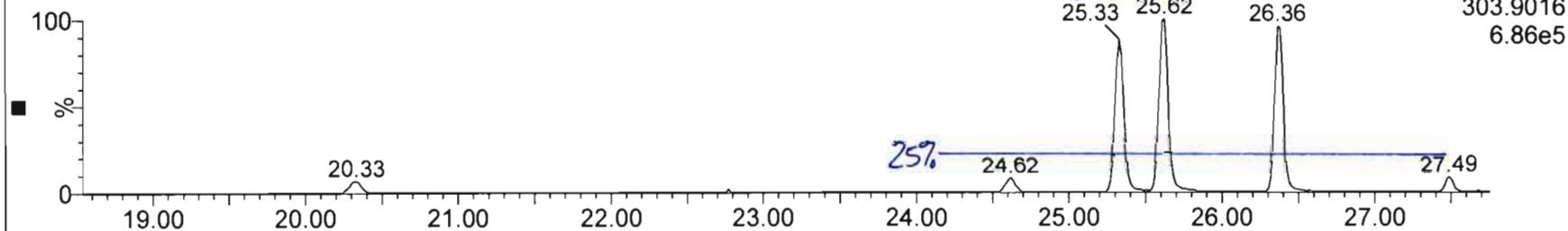


201020R1_6

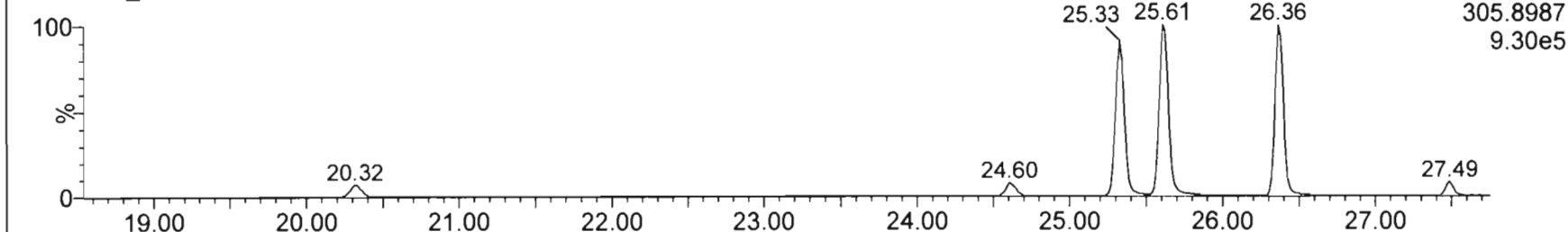


TCDF CPSM QC

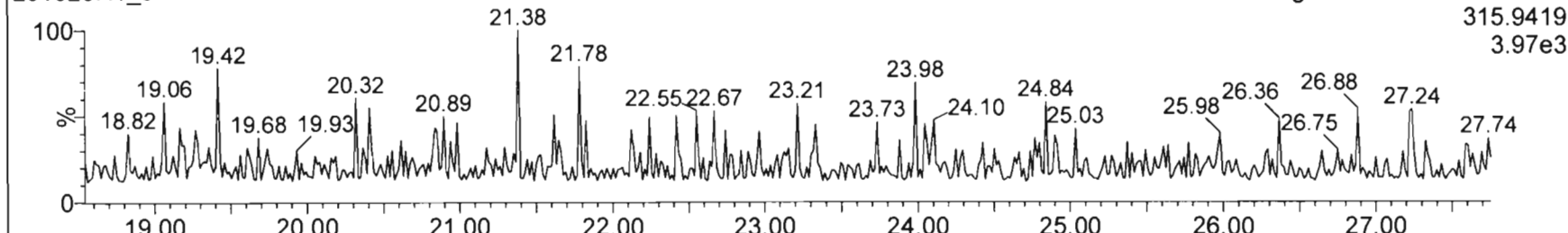
201020R1_9



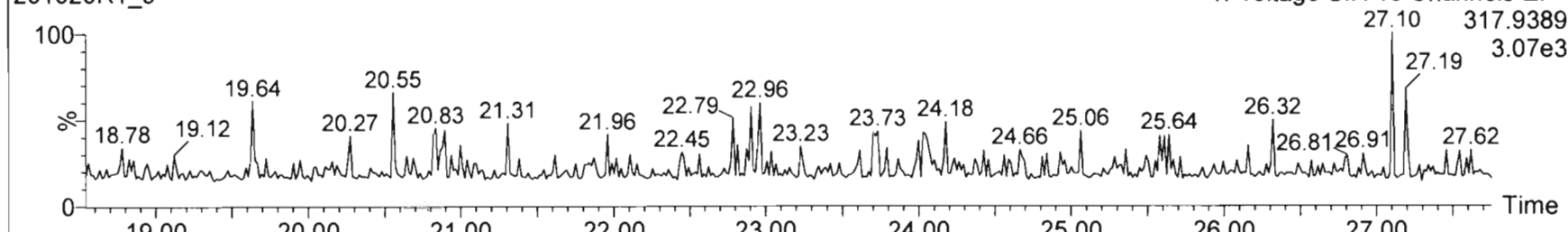
201020R1_9



201020R1_9



201020R1_9



Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

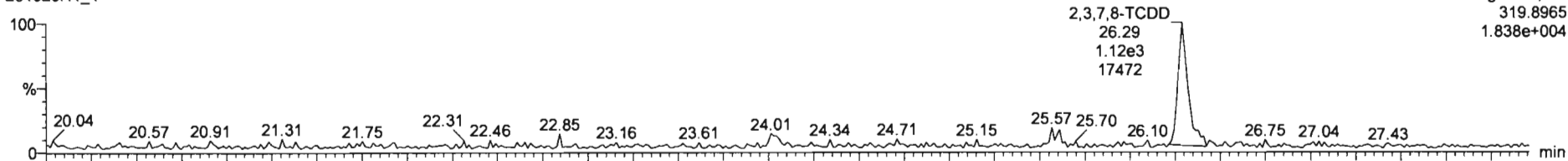
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Calibration: 20 Oct 2020 15:17:40

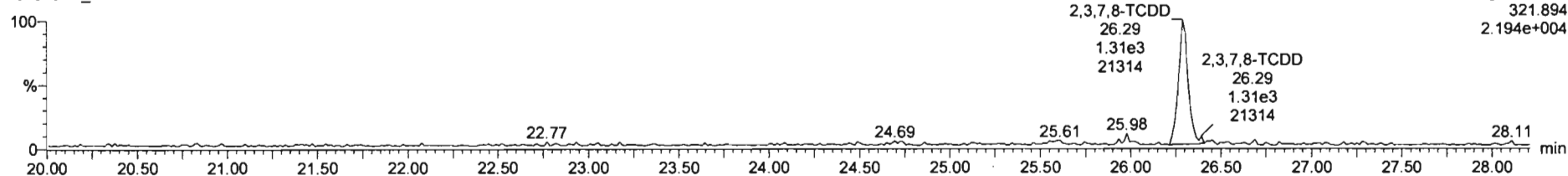
Name: 201020R1_1, Date: 20-Oct-2020, Time: 09:17:10, ID: ST201020R1_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

2,3,7,8-TCDD

201020R1_1

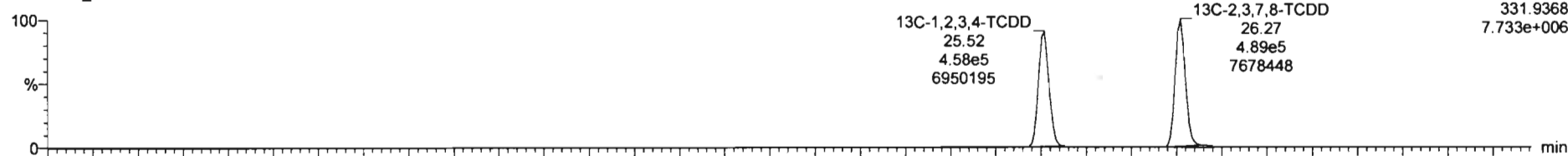


201020R1_1

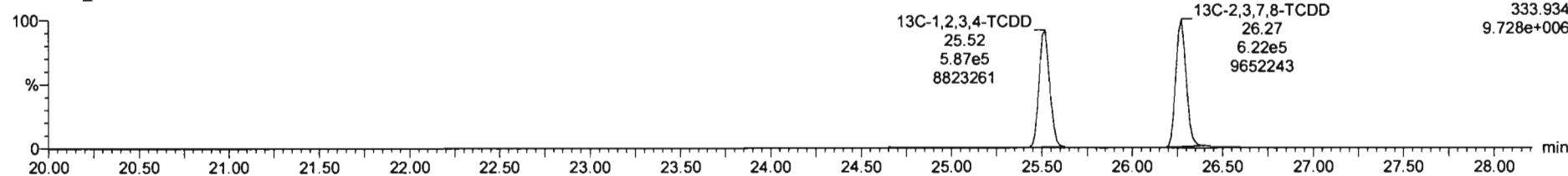


13C-2,3,7,8-TCDD

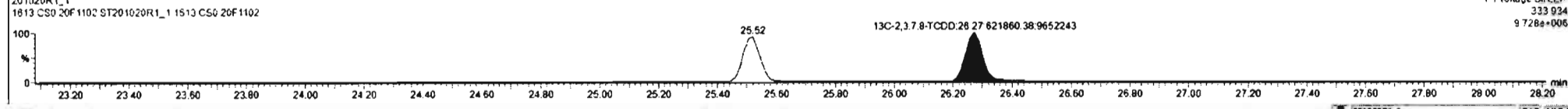
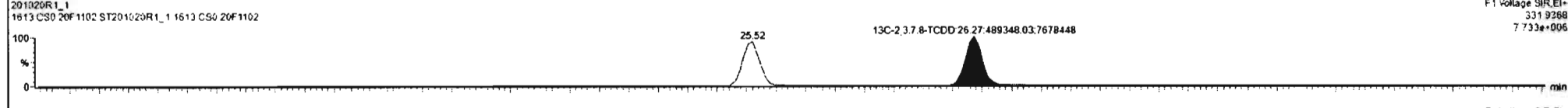
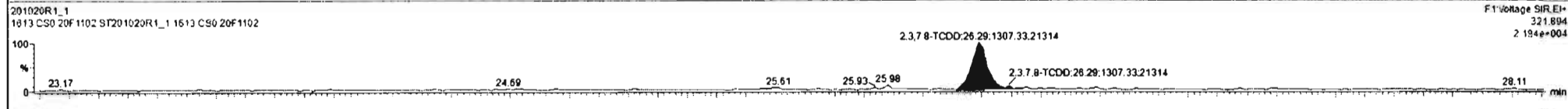
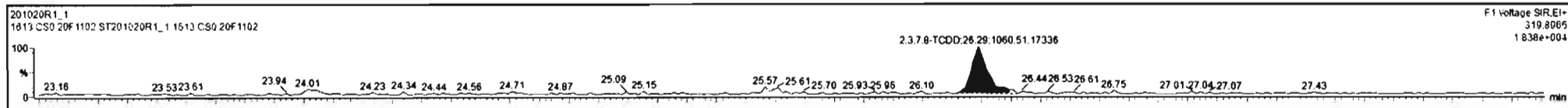
201020R1_1



201020R1_1



#	Name	RT	RA	Yth	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	2,3,7,8-TCDD	26.29	0.811	NO	2.3678e3	1.1112e6	0.250	-10.3	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.590	NO	8.5438e3	8.6783e5	1.250	-11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.201	NO	6.9948e3	6.2109e5	1.250	-11.5	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.41	1.167	NO	7.9514e3	7.3628e5	1.250	-5.5	9.25	0.915	0.0846
5	1,2,3,7,8,9-HxCDD	34.67	1.172	NO	6.8931e3	6.6908e5	1.250	-11.8	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.16	1.007	NO	5.1934e3	5.5958e5	1.250	-14.6	11.7	0.870	0.102
7	OCDD	41.11	0.907	NO	8.8776e3	8.8555e5	2.500	-8.0	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.746	NO	2.8093e3	1.5316e6	0.250	-11.0	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.71	1.684	NO	1.3382e4	1.2209e6	1.250	-8.9	8.34	0.963	0.0602
10	2,3,4,7,8-PeCDF	30.76	1.584	NO	1.3929e4	1.1562e6	1.250	-9.8	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.212	NO	8.7459e3	8.6452e5	1.250	-15.1	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.161	NO	1.0004e4	9.1504e5	1.250	-13.2	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.18	1.193	NO	8.8325e3	8.2819e5	1.250	-12.9	11.6	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.232	NO	7.1604e3	6.8664e5	1.250	-12.3	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.74	0.945	NO	6.7951e3	6.4927e5	1.250	-16.2	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.017	NO	5.8287e3	4.7816e5	1.250	-13.2	12.2	1.12	0.137
17	OCDF	41.38	0.842	NO	9.8181e3	1.0480e6	2.500	-13.7	12.2	0.868	0.106
18	13C-2,3,7,8-TCDD	26.27	0.787	NO	1.1112e6	1.0450e6	100.000	-4.1	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.94	0.620	NO	6.6763e5	1.0450e6	100.000	-3.3	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.276	NO	6.2109e5	9.3577e5	100.000	-5.1	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.38	1.276	NO	7.3628e5	9.3577e5	100.000	-5.5	6.74	0.833	0.0561



Dataset: Untitled

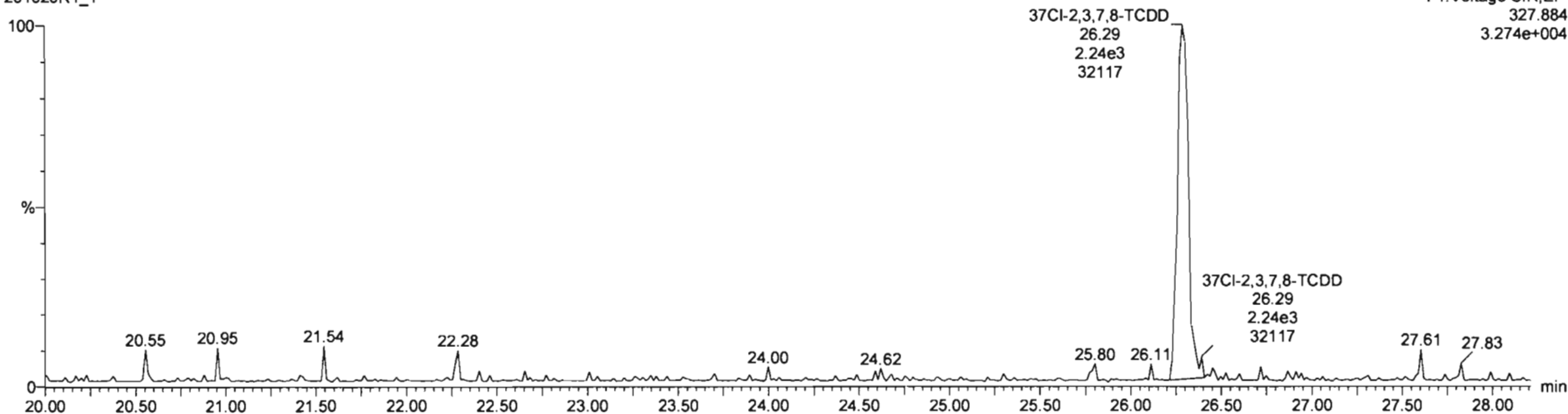
Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_1, Date: 20-Oct-2020, Time: 09:17:10, ID: ST201020R1_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

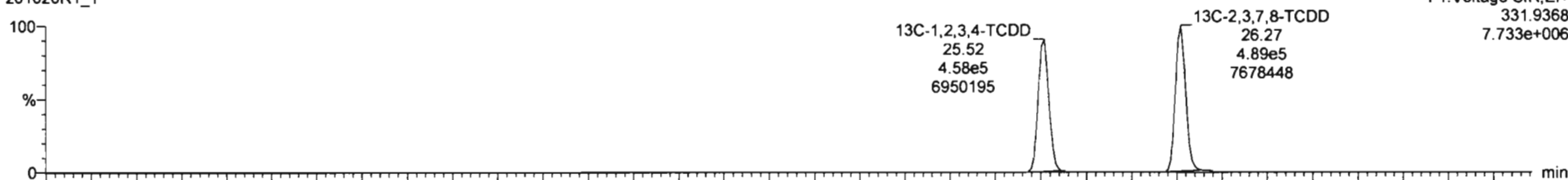
37Cl-2,3,7,8-TCDD

201020R1_1

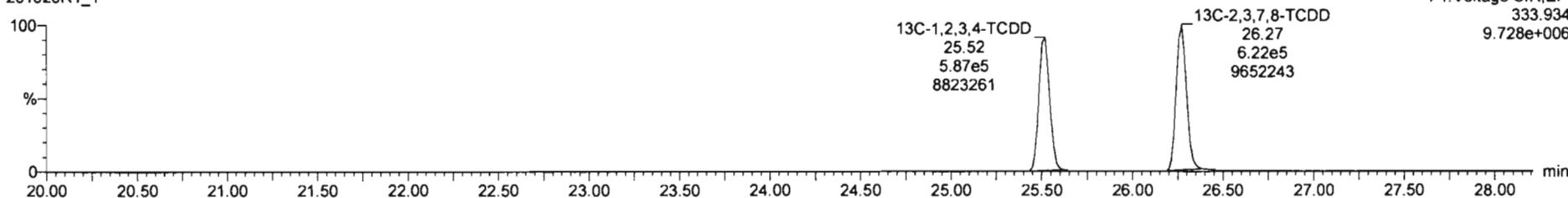


13C-1,2,3,4-TCDD

201020R1_1



201020R1_1



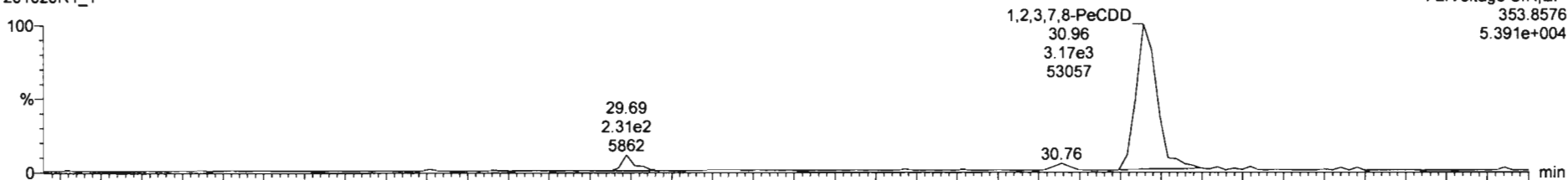
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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

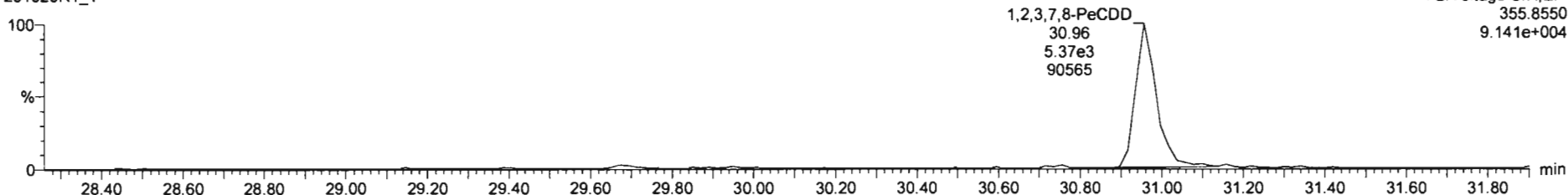
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1,2,3,7,8-PeCDD

201020R1_1

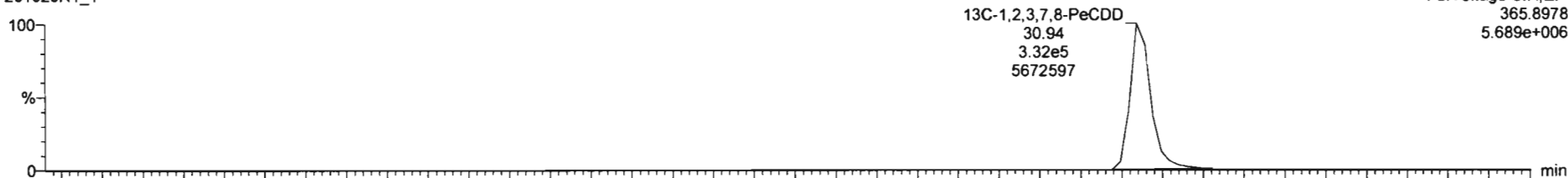


201020R1_1

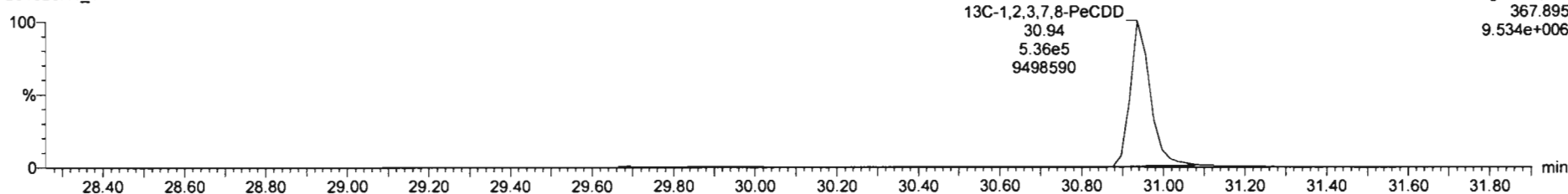


13C-1,2,3,7,8-PeCDD

201020R1_1



201020R1_1



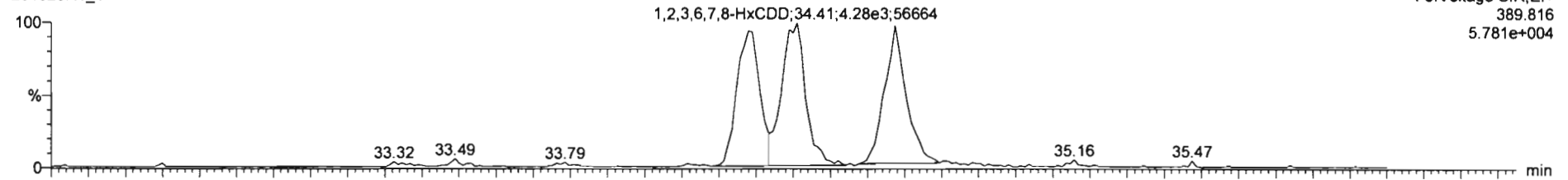
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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

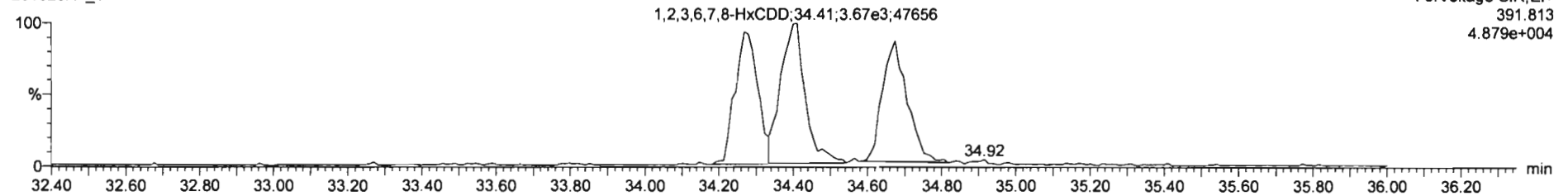
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1,2,3,4,7,8-HxCDD

201020R1_1

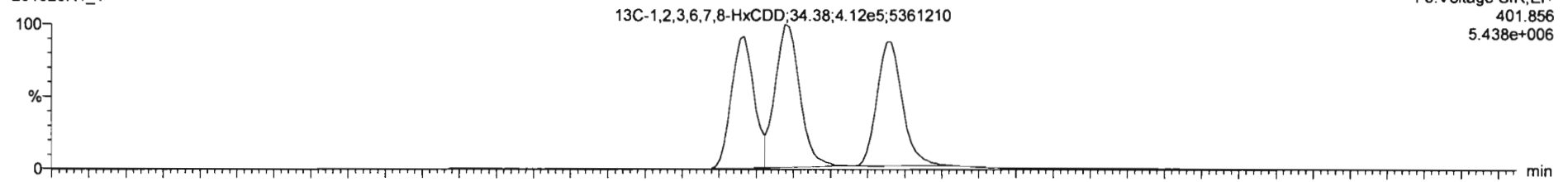


201020R1_1

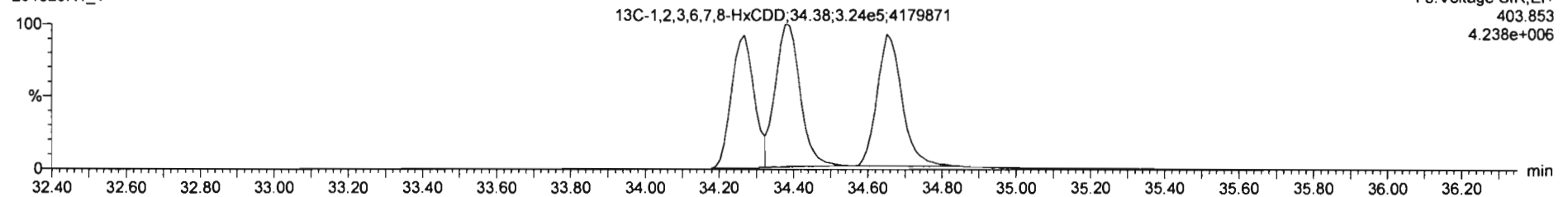


13C-1,2,3,4,7,8-HxCDD

201020R1_1



201020R1_1



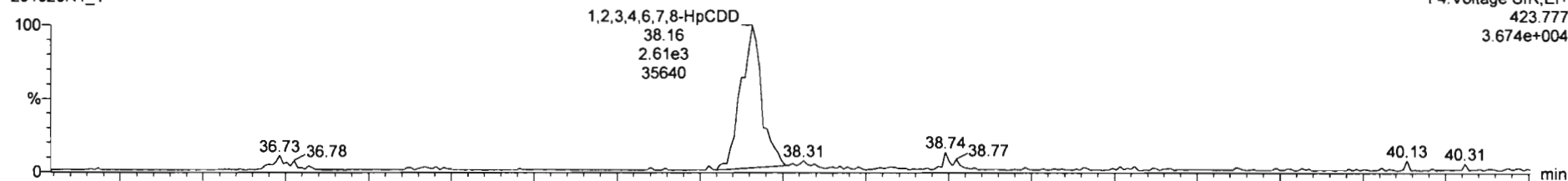
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

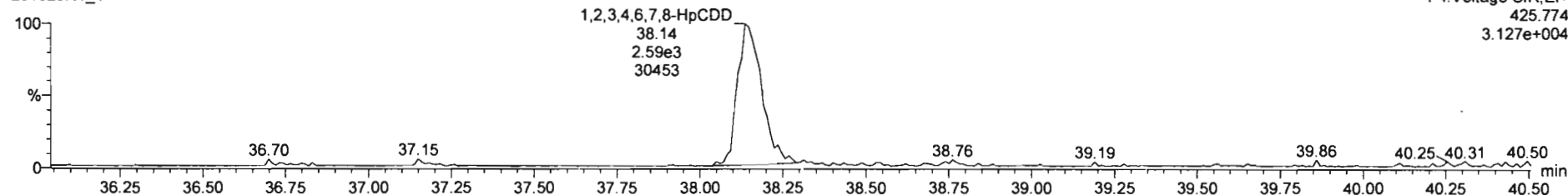
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1,2,3,4,6,7,8-HpCDD

201020R1_1

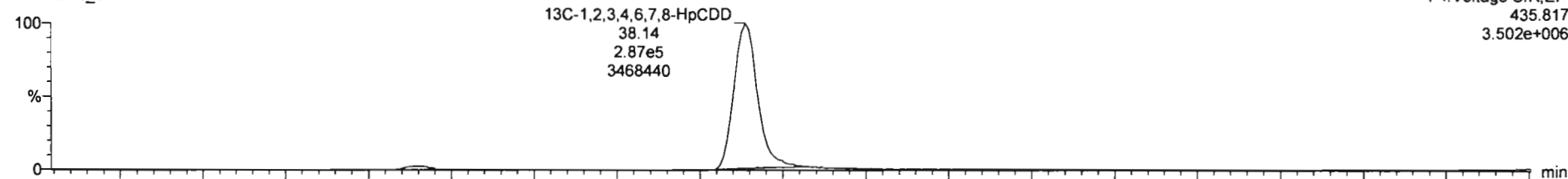


201020R1_1

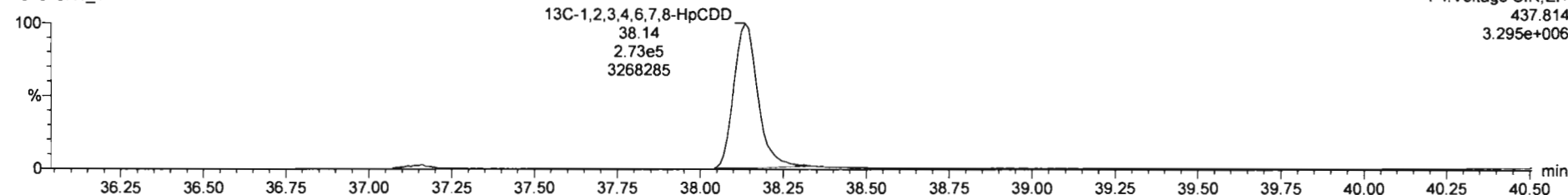


13C-1,2,3,4,6,7,8-HpCDD

201020R1_1



201020R1_1



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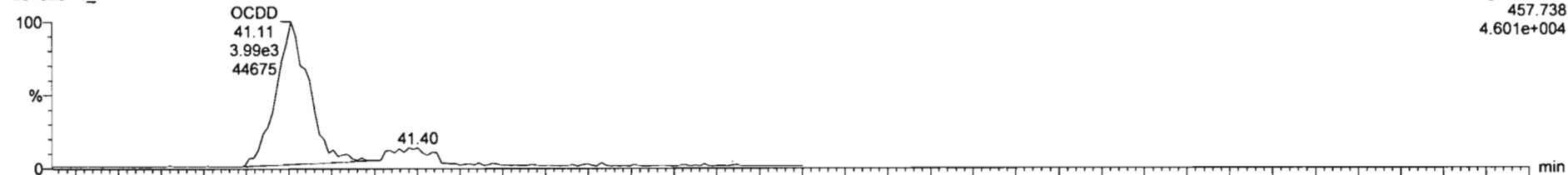
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

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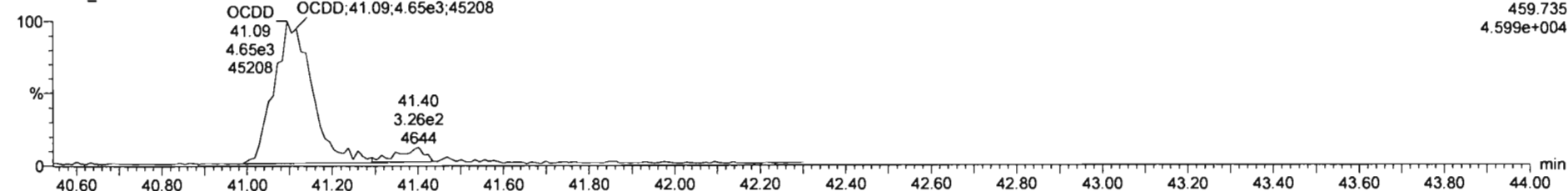
OCDD

201020R1_1



F5:Voltage SIR,EI+
457.738
4.601e+004

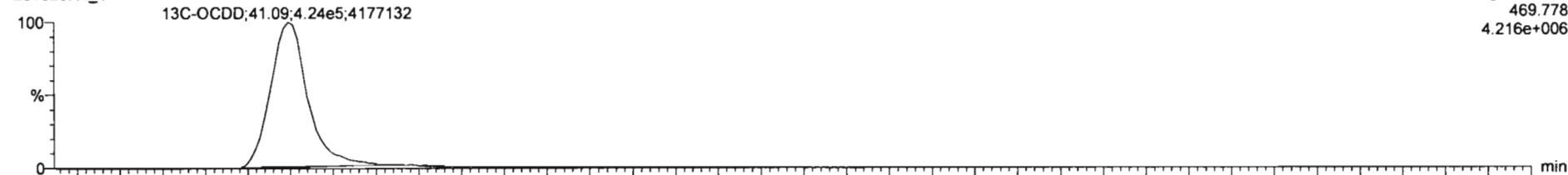
201020R1_1



F5:Voltage SIR,EI+
459.735
4.599e+004

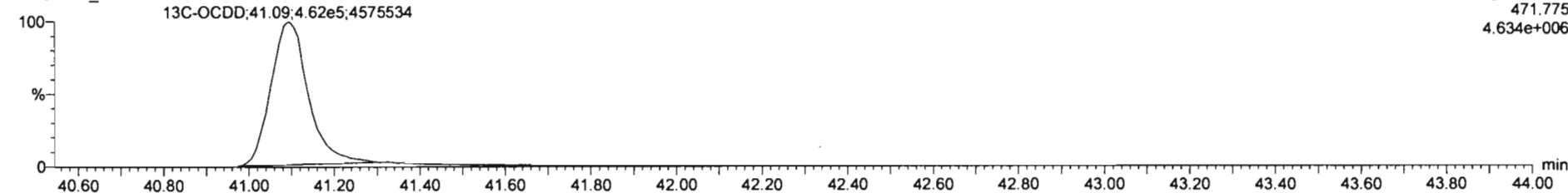
13C-OCDD

201020R1_1



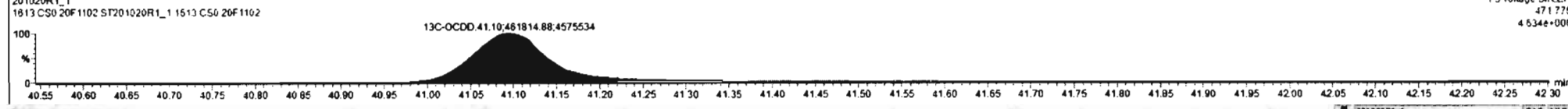
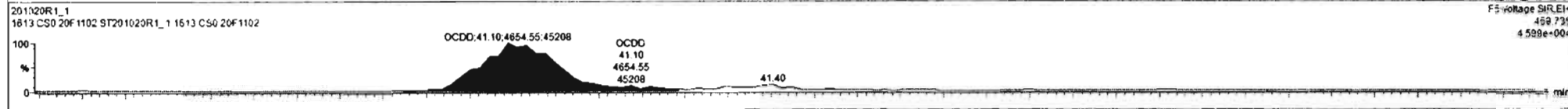
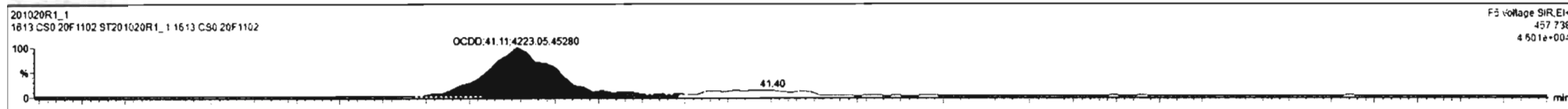
F5:Voltage SIR,EI+
469.778
4.216e+006

201020R1_1



F5:Voltage SIR,EI+
471.775
4.634e+006

ID	Name	RT	RA	yth	Area	ISArea	Std Conc	%Dev	MUSD	RRF M...	RRF SD
1	2,3,7,8-TCDD	26.29	0.811	NO	2.3678e3	1.1112e6	0.250	-10.3	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.590	NO	8.5438e3	8.6783e5	1.250	-11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.201	NO	6.9948e3	6.2109e5	1.250	-11.5	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.41	1.167	NO	7.9514e3	7.3828e5	1.250	-5.5	9.25	0.915	0.0846
5	1,2,3,7,8,9-HxCDD	34.67	1.172	NO	6.8531e3	6.6908e5	1.250	-11.8	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.18	1.007	NO	5.1934e3	5.5958e5	1.250	-14.8	11.7	0.870	0.102
7	OCDD	41.11	0.907	NO	8.6776e3	8.8555e5	2.500	-8.9	10.3	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.746	NO	2.6093e3	1.6318e6	0.250	-11.0	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.71	1.604	NO	1.3382e4	1.2209e6	1.250	-8.9	8.34	0.963	0.0802
10	2,3,4,7,8-PeCDF	30.76	1.584	NO	1.3928e4	1.1562e6	1.250	-9.8	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.212	NO	8.7459e3	8.6452e5	1.250	-15.1	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.181	NO	1.0004e4	9.1504e5	1.250	-13.2	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.18	1.193	NO	8.9325e3	8.2819e5	1.250	-12.9	11.8	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.232	NO	7.1694e3	6.8684e5	1.250	-12.3	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.74	0.945	NO	6.7951e3	6.4927e5	1.250	-16.2	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.017	NO	5.8287e3	4.7816e5	1.250	-13.2	12.2	1.12	0.137
17	OCDF	41.38	0.842	NO	9.8161e3	1.0480e6	2.500	-13.7	12.2	0.868	0.106
18	13C-2,3,7,8-TCDD	28.27	0.787	NO	1.1112e6	1.0450e6	100.000	-4.1	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.94	0.620	NO	8.6763e5	1.0450e6	100.000	-3.3	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.276	NO	6.2109e5	9.3577e5	100.000	-5.1	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.38	1.270	NO	7.3828e5	9.3577e5	100.000	-5.5	6.74	0.833	0.0581



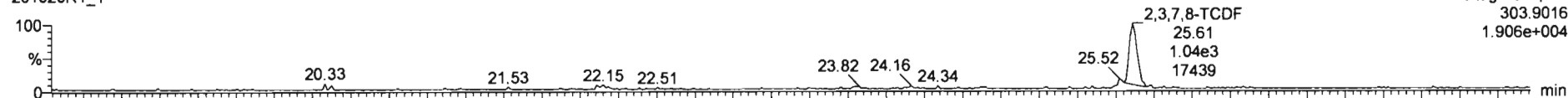
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

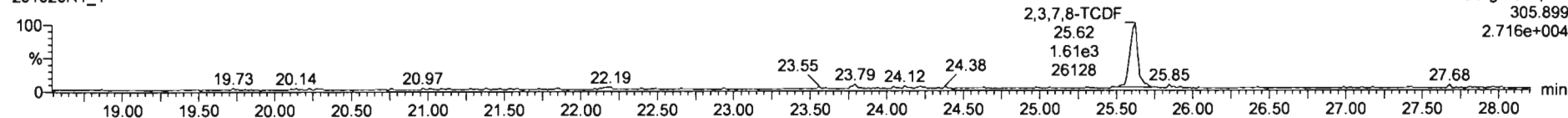
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2,3,7,8-TCDF

201020R1_1

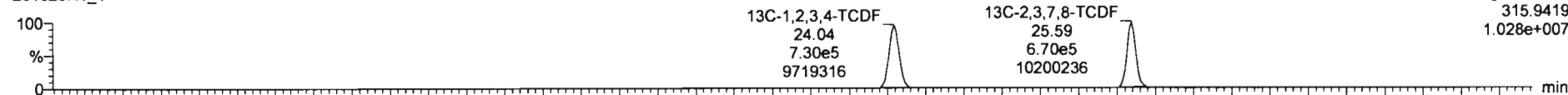


201020R1_1

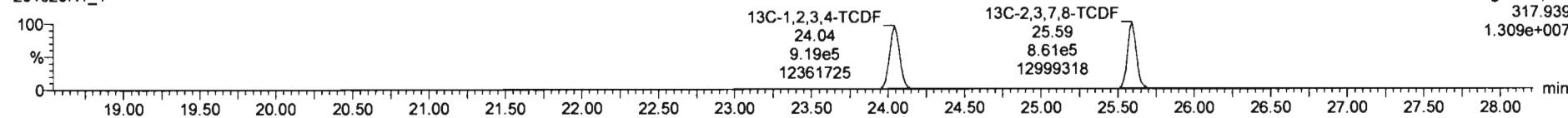


13C-2,3,7,8-TCDF

201020R1_1

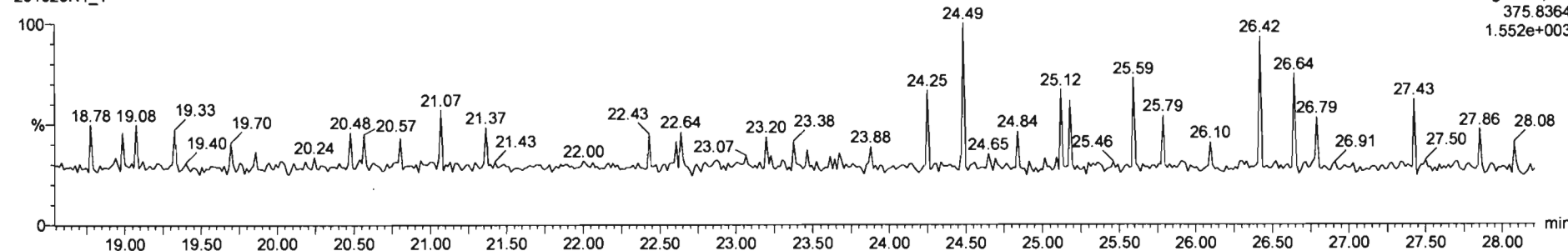


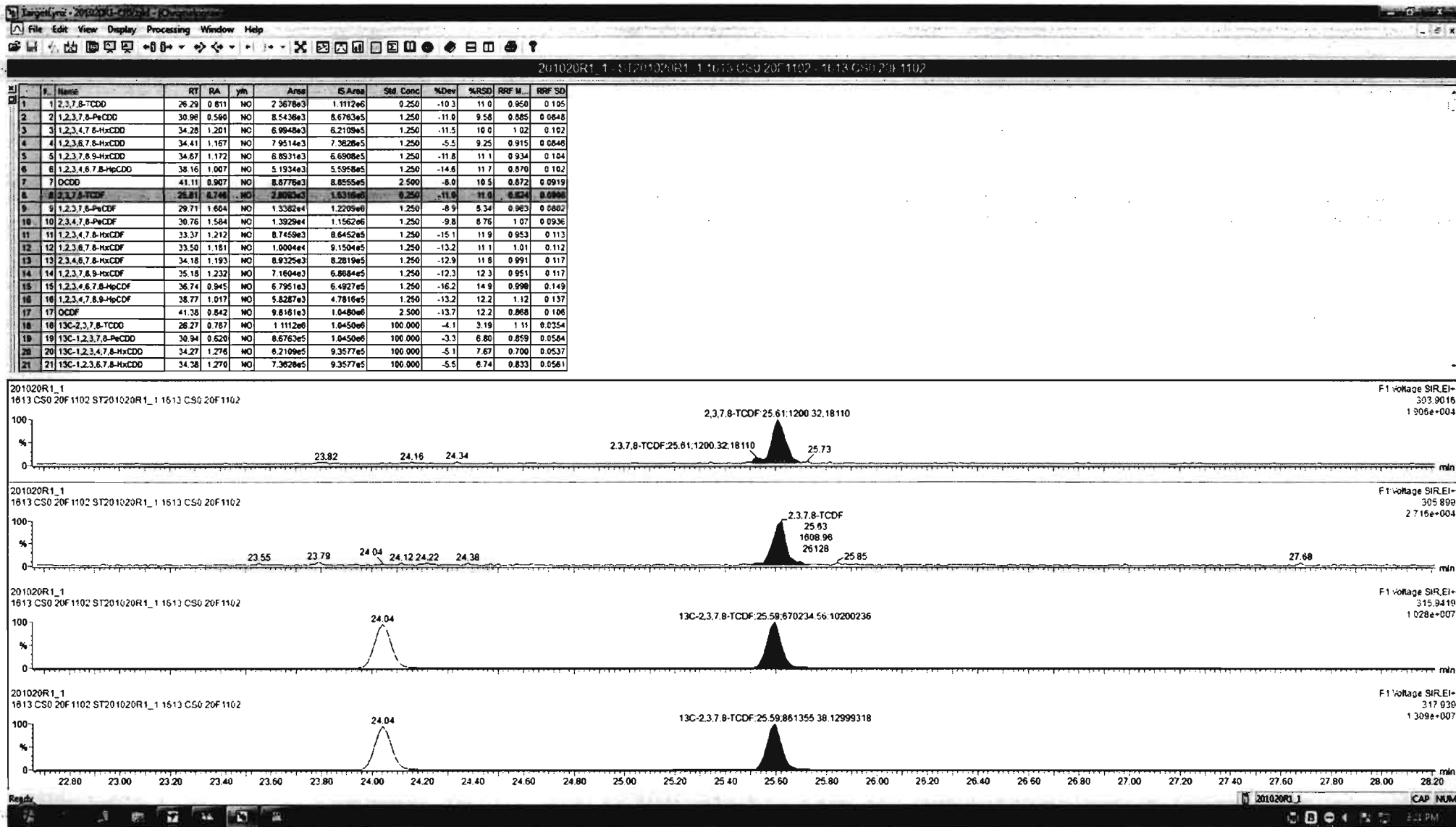
201020R1_1



DPE1

201020R1_1





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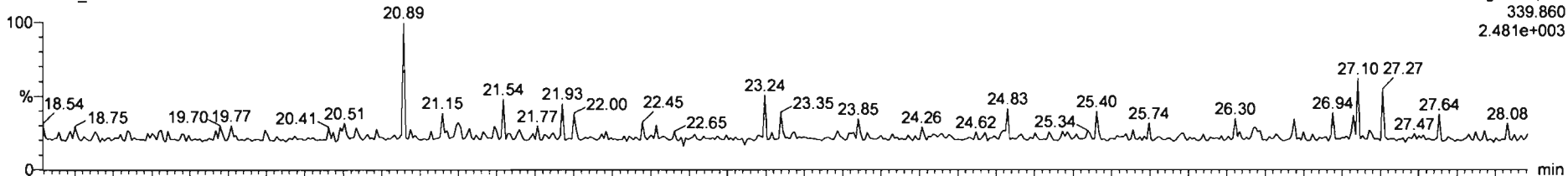
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_1, Date: 20-Oct-2020, Time: 09:17:10, ID: ST201020R1_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

1st Func. Penta-Furans

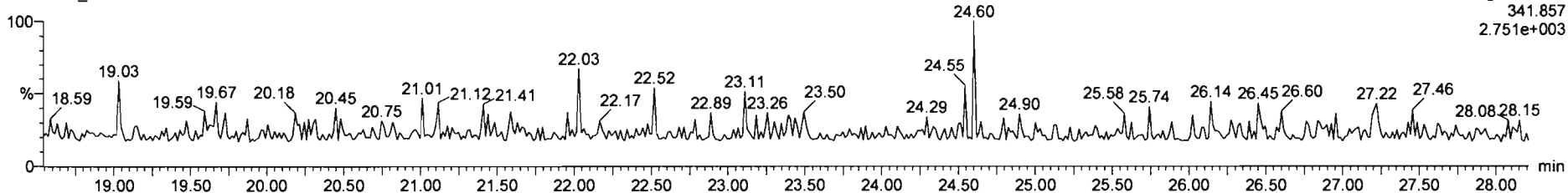
201020R1_1

F1:Voltage SIR,EI+
339.860
2.481e+003



201020R1_1

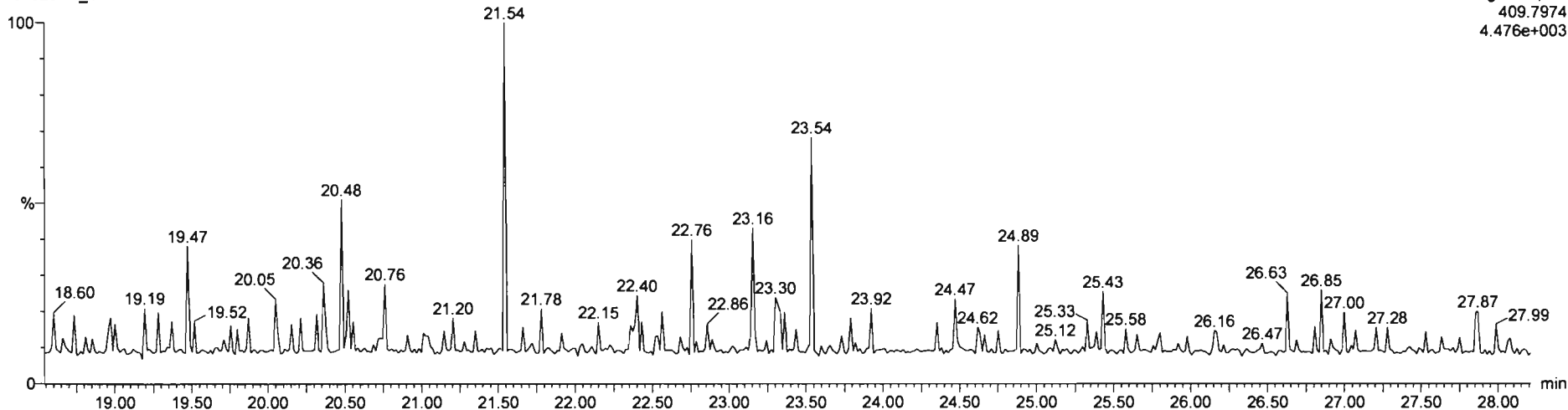
F1:Voltage SIR,EI+
341.857
2.751e+003



DPE6

201020R1_1

F1:Voltage SIR,EI+
409.7974
4.476e+003



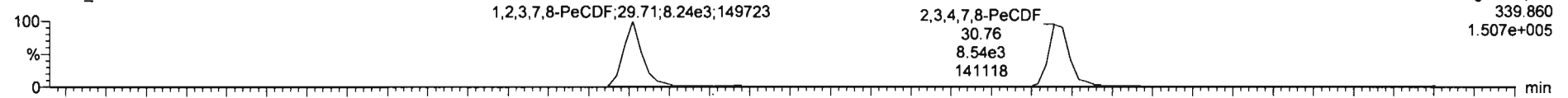
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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_1, Date: 20-Oct-2020, Time: 09:17:10, ID: ST201020R1_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

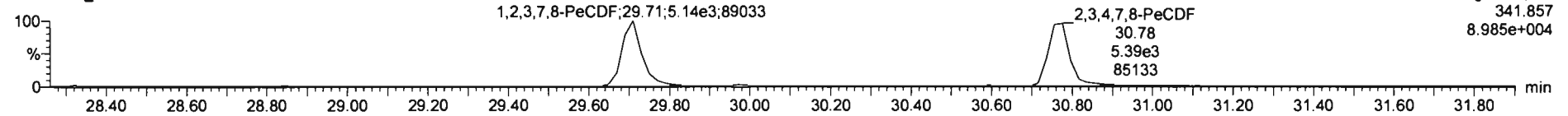
1,2,3,7,8-PeCDF

201020R1_1



F2: Voltage SIR, EI+
339.860
1.507e+005

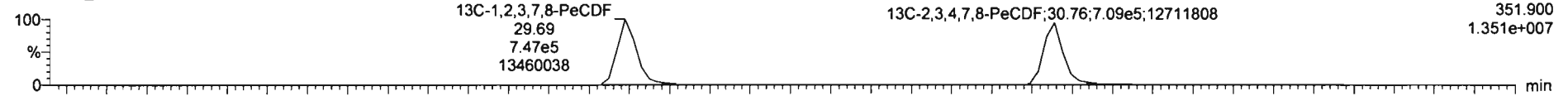
201020R1_1



F2: Voltage SIR, EI+
341.857
8.985e+004

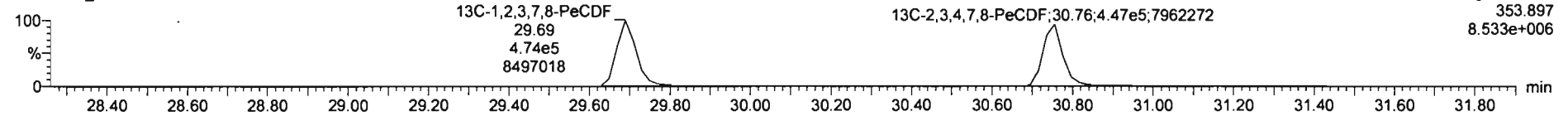
13C-1,2,3,7,8-PeCDF

201020R1_1



F2: Voltage SIR, EI+
351.900
1.351e+007

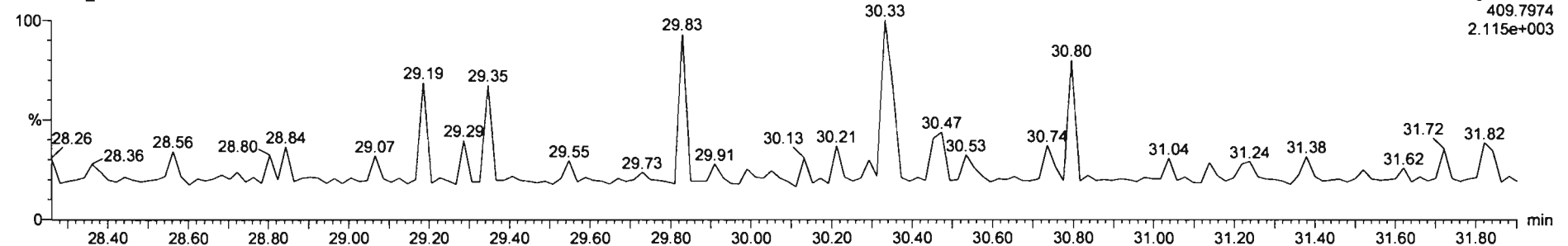
201020R1_1



F2: Voltage SIR, EI+
353.897
8.533e+006

DPE2

201020R1_1



F2: Voltage SIR, EI+
409.7974
2.115e+003

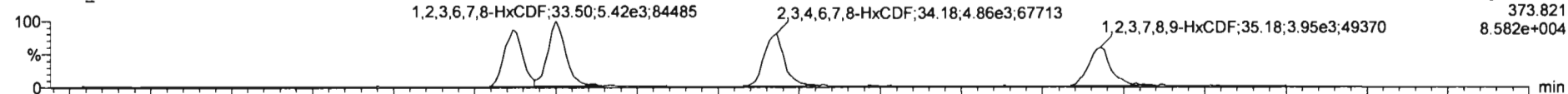
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

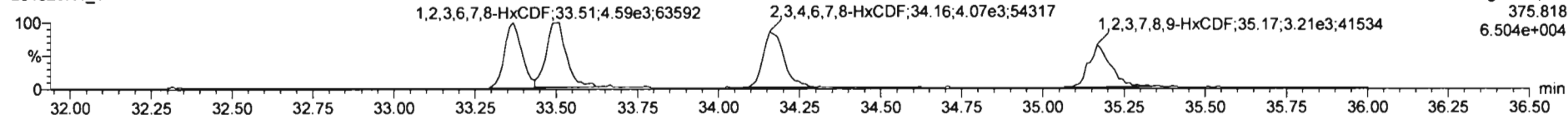
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1,2,3,4,7,8-HxCDF

201020R1_1

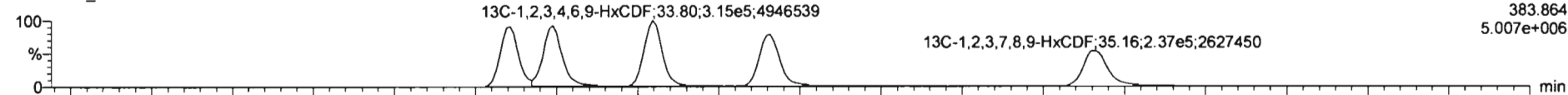


201020R1_1

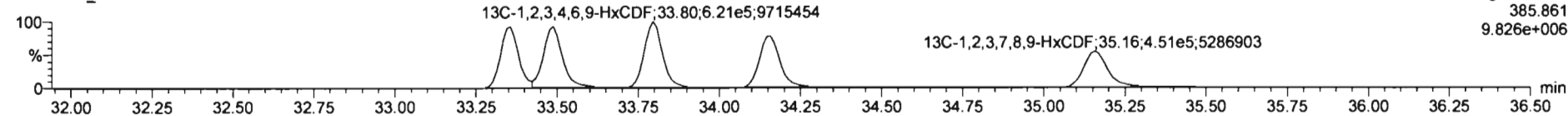


13C-1,2,3,4,7,8-HxCDF

201020R1_1

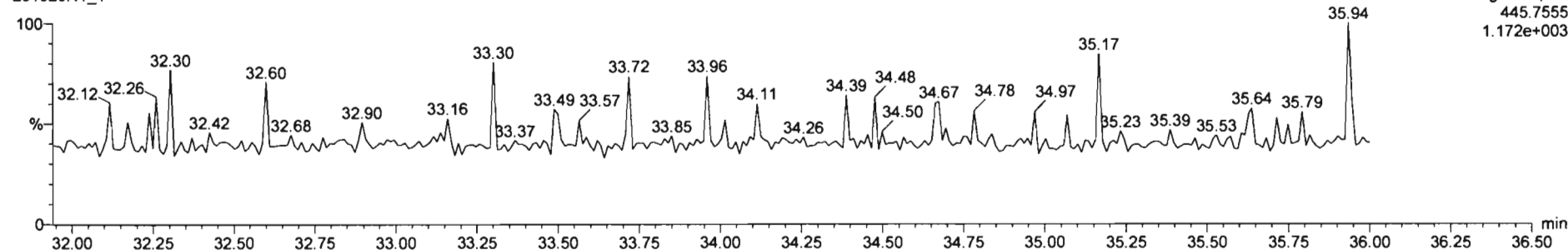


201020R1_1

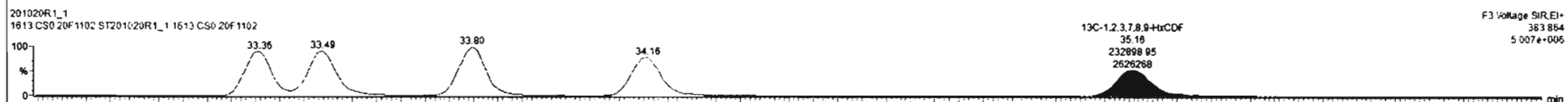


DPE3

201020R1_1



#	Name	RT	RA	Yth	Area	IS Area	Std. Conc.	%Dev.	%RSD	RFM M.	RFM SD
1	1,2,3,7,8-TCDD	26.29	0.811	NO	2.3678e3	1.1112e6	0.250	-10.3	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.590	NO	8.5436e3	8.6783e5	1.250	-11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.201	NO	6.9648e3	6.2109e5	1.250	-11.5	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.41	1.167	NO	7.9514e3	7.3828e5	1.250	-5.5	9.25	0.915	0.0848
5	1,2,3,7,8,9-HxCDD	34.67	1.172	NO	6.8931e3	6.6908e5	1.250	-11.8	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.16	1.007	NO	5.1934e3	5.5958e5	1.250	-14.8	11.7	0.870	0.102
7	OCDD	41.11	0.907	NO	8.8778e3	8.8559e5	2.500	-8.0	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.81	0.746	NO	2.8090e3	1.5318e6	0.250	-11.0	11.0	0.824	0.0908
9	1,2,3,7,8-PeCDF	29.71	1.604	NO	1.3382e4	1.2205e6	1.250	-8.9	8.34	0.983	0.0802
10	2,3,4,7,8-PeCDF	30.76	1.584	NO	1.3929e4	1.1562e6	1.250	-9.8	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.212	NO	8.7459e3	8.6452e5	1.250	-15.1	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.181	NO	1.0094e4	9.1504e5	1.250	-13.2	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.18	1.193	NO	8.9325e3	8.2819e5	1.250	-12.9	11.8	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.232	NO	7.1804e3	8.8884e5	1.250	-12.3	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.74	0.945	NO	6.7951e3	6.4927e5	1.250	-16.2	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.017	NO	5.8287e3	4.7816e5	1.250	-13.2	12.2	1.12	0.137
17	OCDF	41.38	0.842	NO	9.8161e3	1.0480e6	2.500	-13.7	12.2	0.868	0.106
18	13C-2,3,7,8-TCDD	26.27	0.787	NO	1.1112e6	1.0450e6	100.000	-4.1	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.94	0.620	NO	8.6763e3	1.0450e6	100.000	-3.3	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.278	NO	6.2109e5	9.3577e5	100.000	-5.1	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.38	1.278	NO	7.3628e5	9.3577e5	100.000	-5.5	6.74	0.833	0.0581

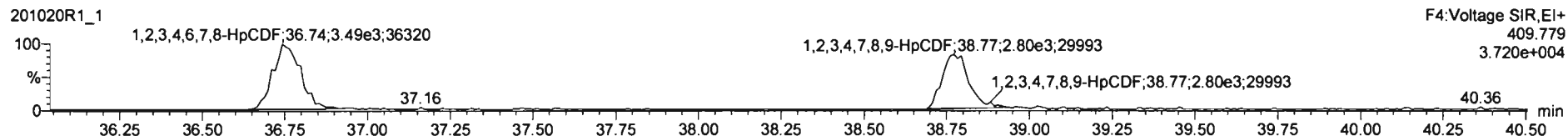
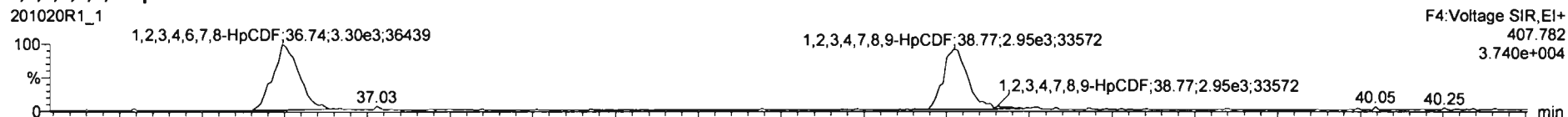


Dataset: Untitled

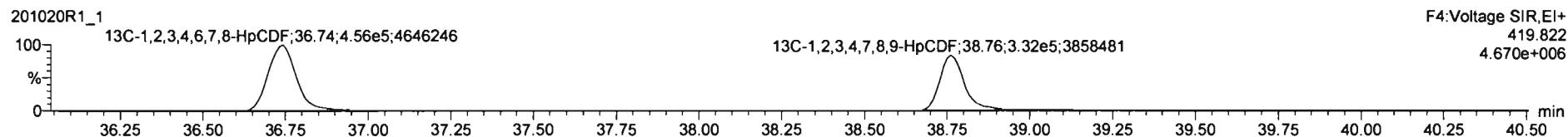
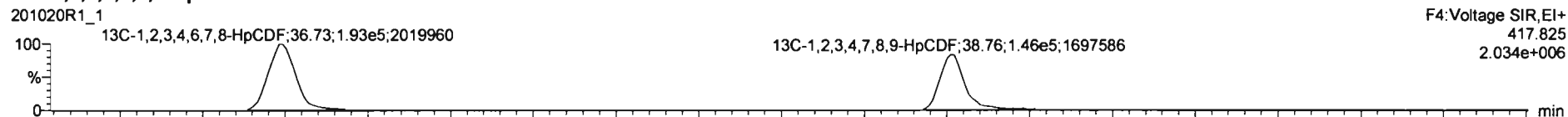
Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_1, Date: 20-Oct-2020, Time: 09:17:10, ID: ST201020R1_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

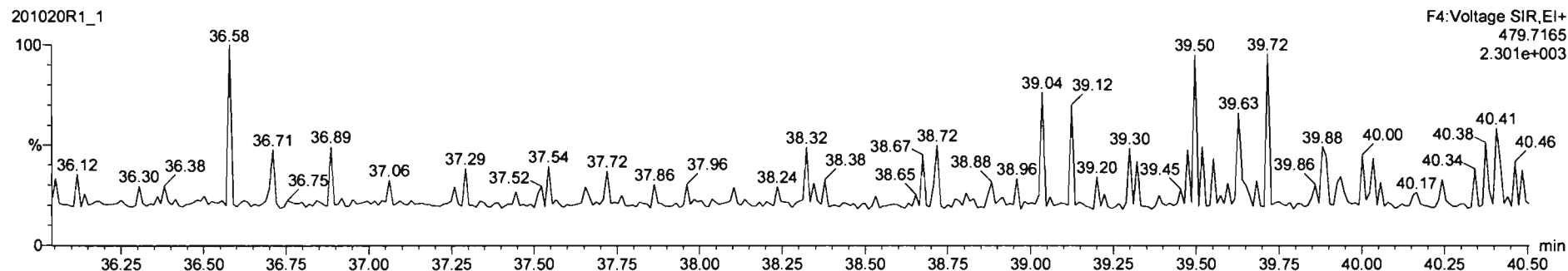
1,2,3,4,6,7,8-HpCDF

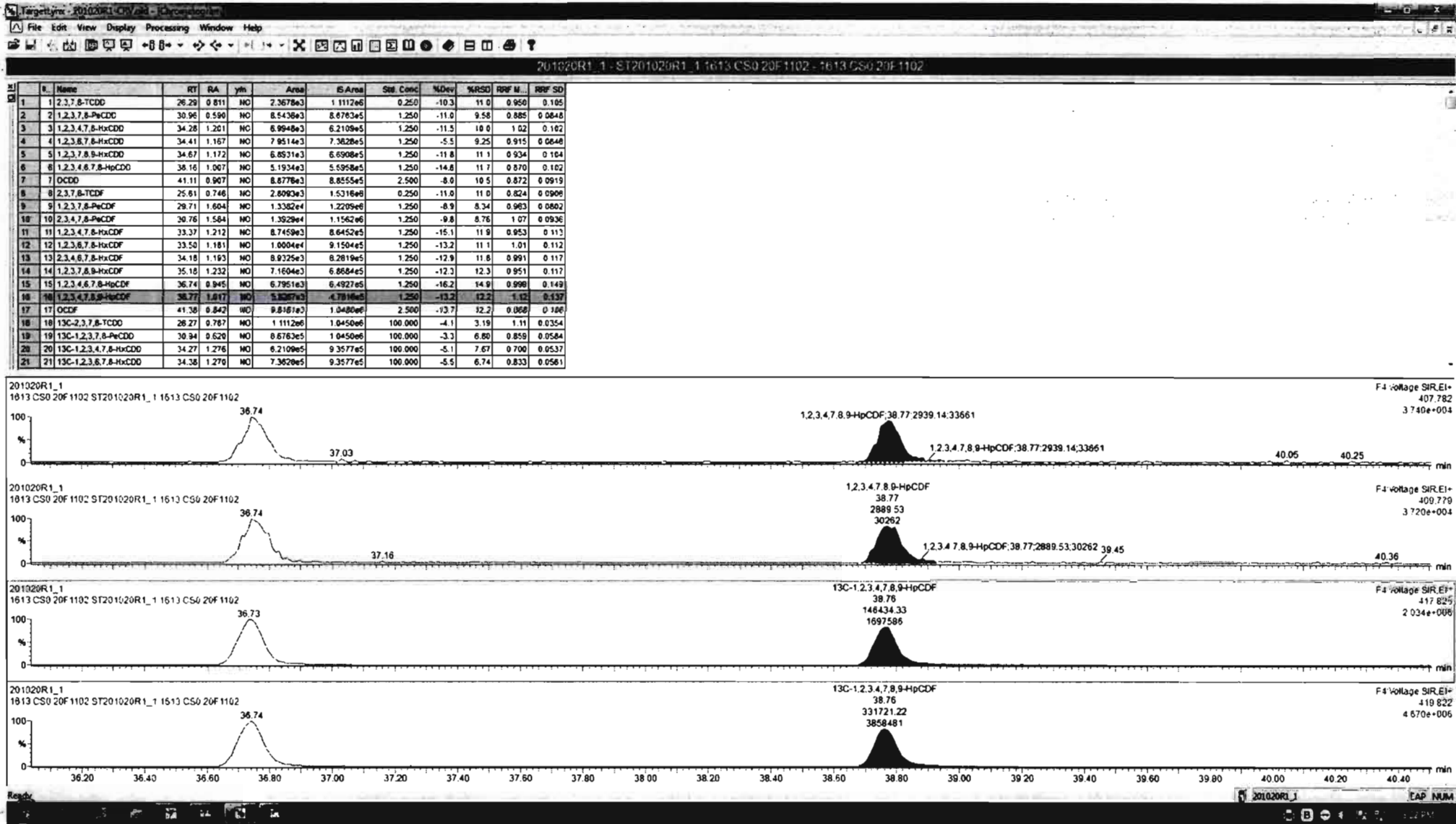


13C-1,2,3,4,6,7,8-HpCDF



DPE4



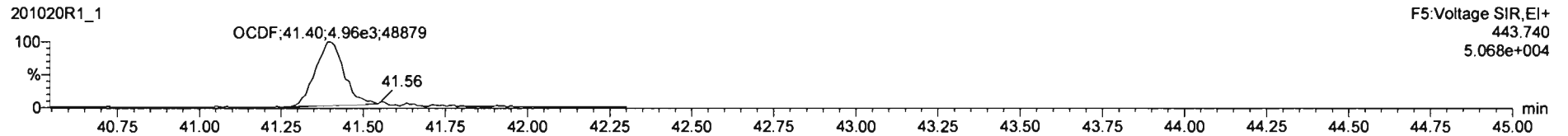
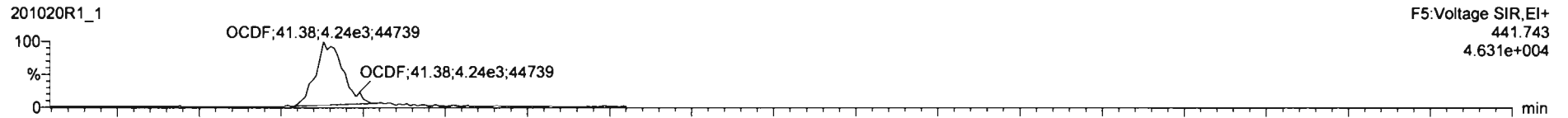


Dataset: Untitled

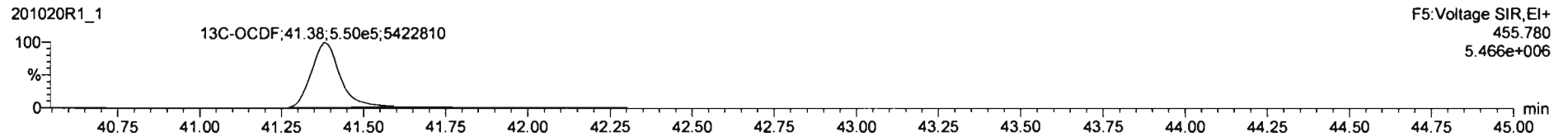
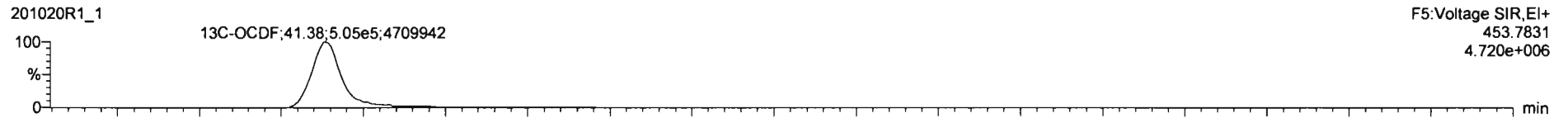
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_1, Date: 20-Oct-2020, Time: 09:17:10, ID: ST201020R1_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

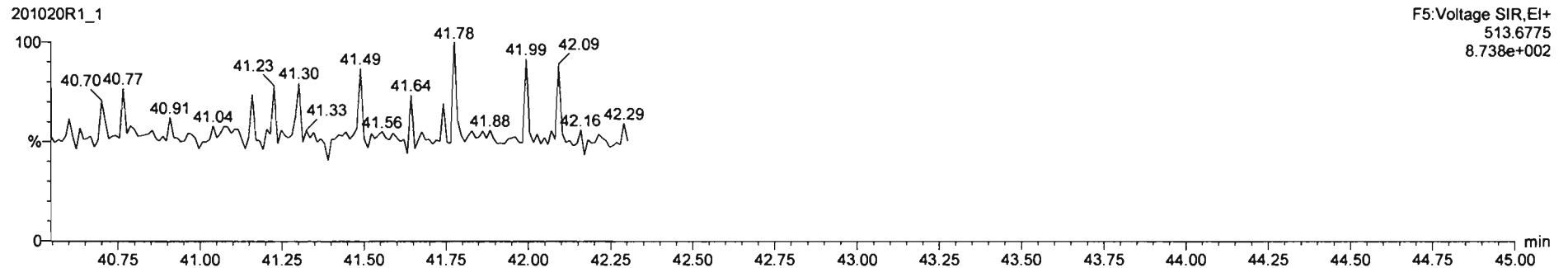
OCDF

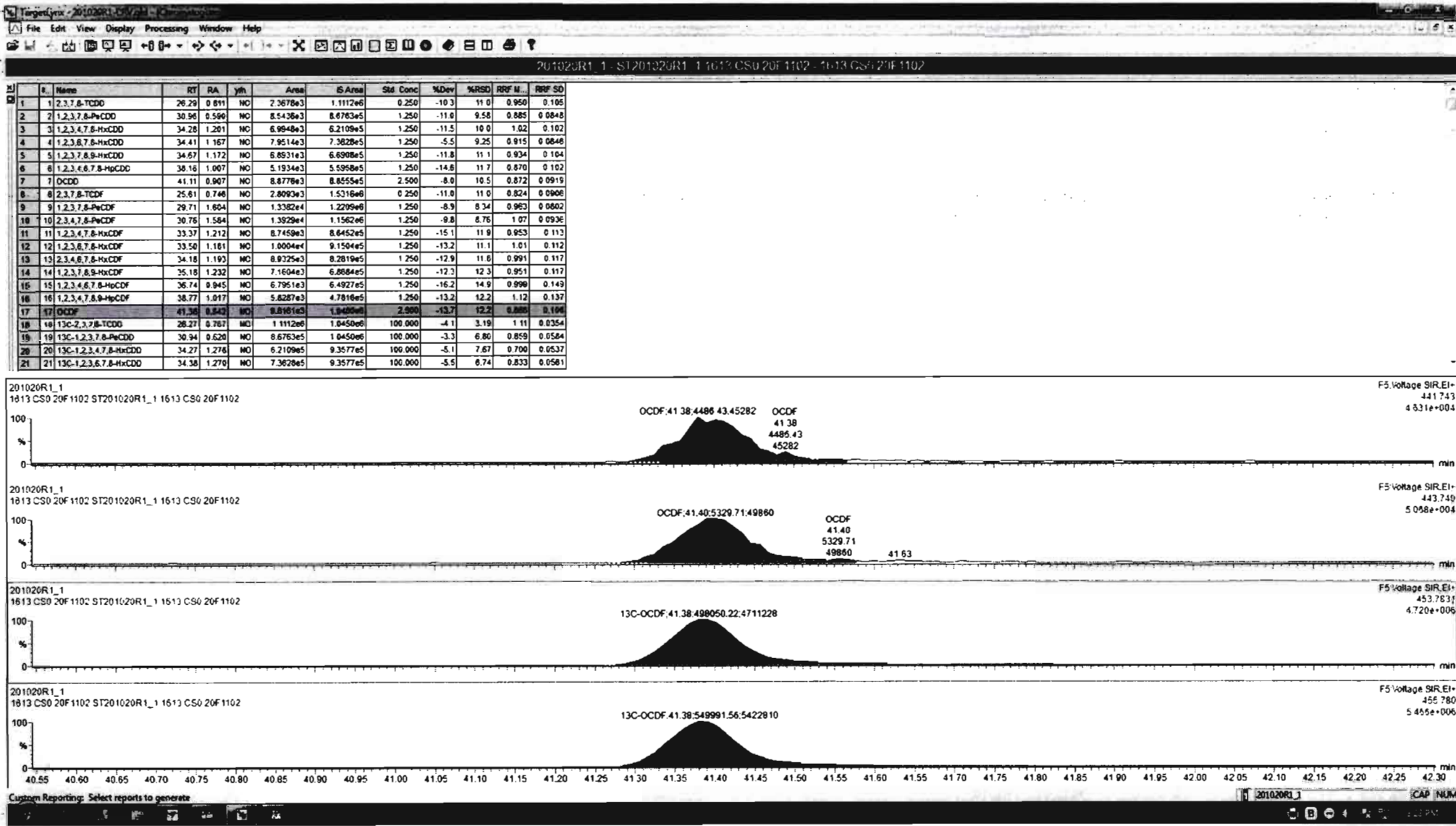


13C-OCDF



DPE5

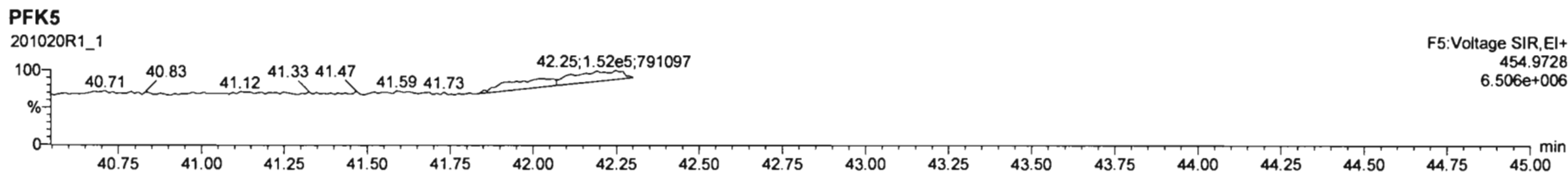
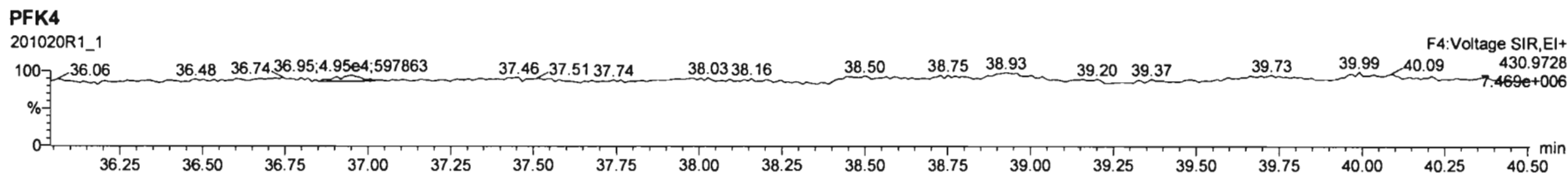
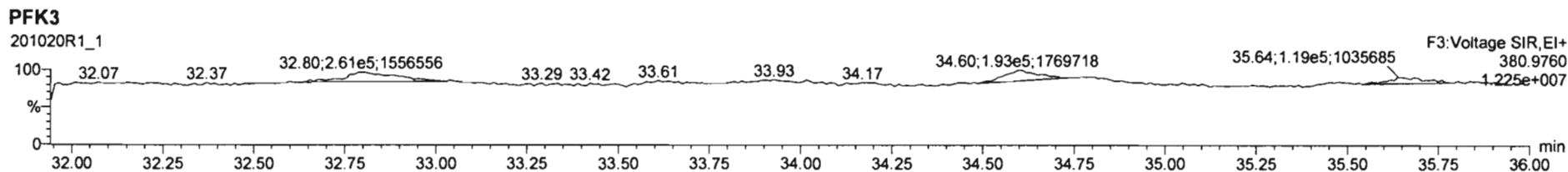
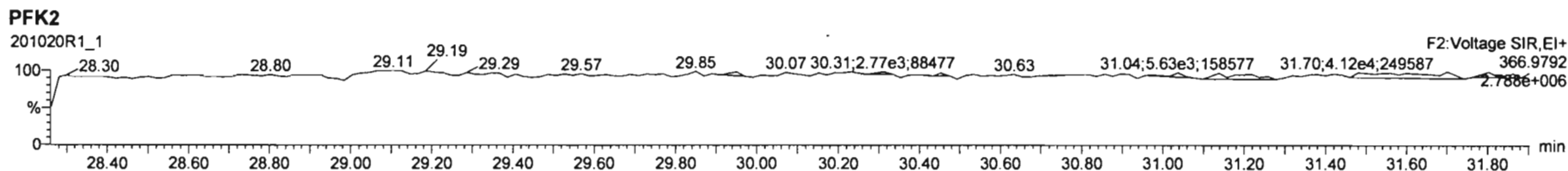
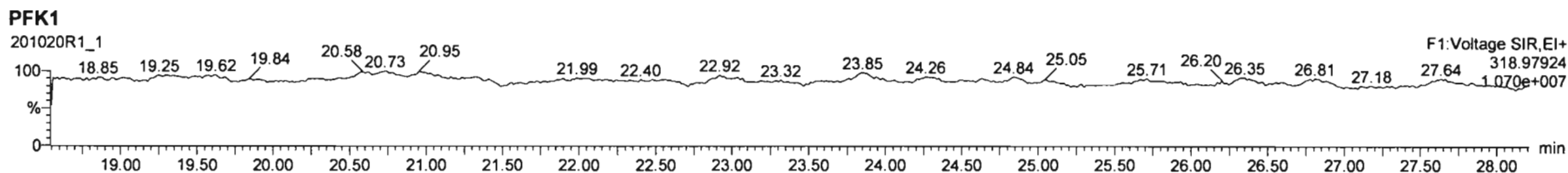




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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_1, Date: 20-Oct-2020, Time: 09:17:10, ID: ST201020R1_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102



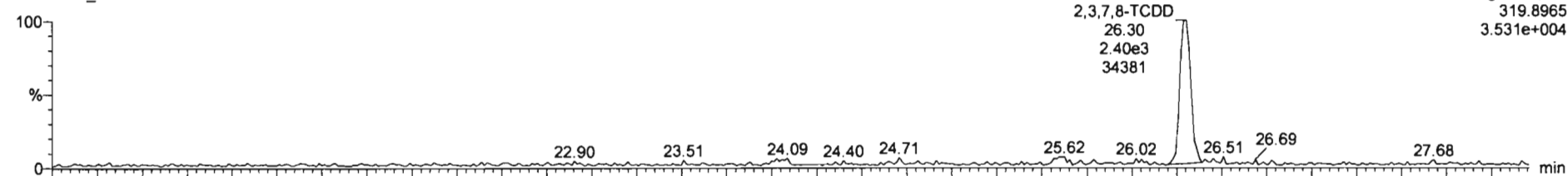
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

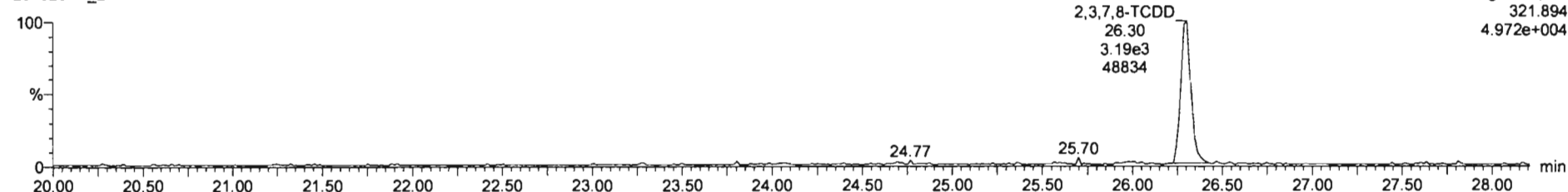
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2,3,7,8-TCDD

201020R1_2



201020R1_2

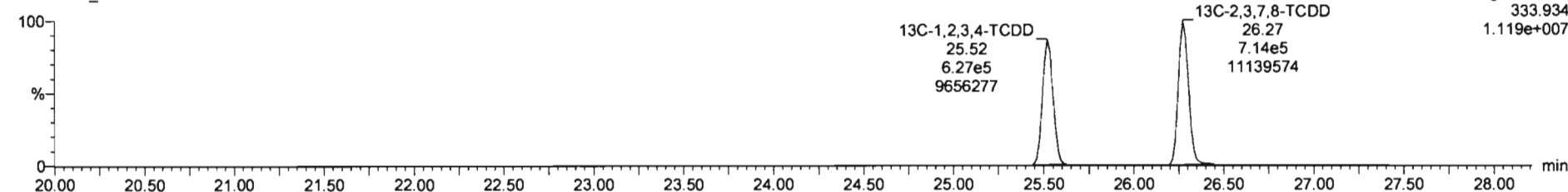


13C-2,3,7,8-TCDD

201020R1_2



201020R1_2



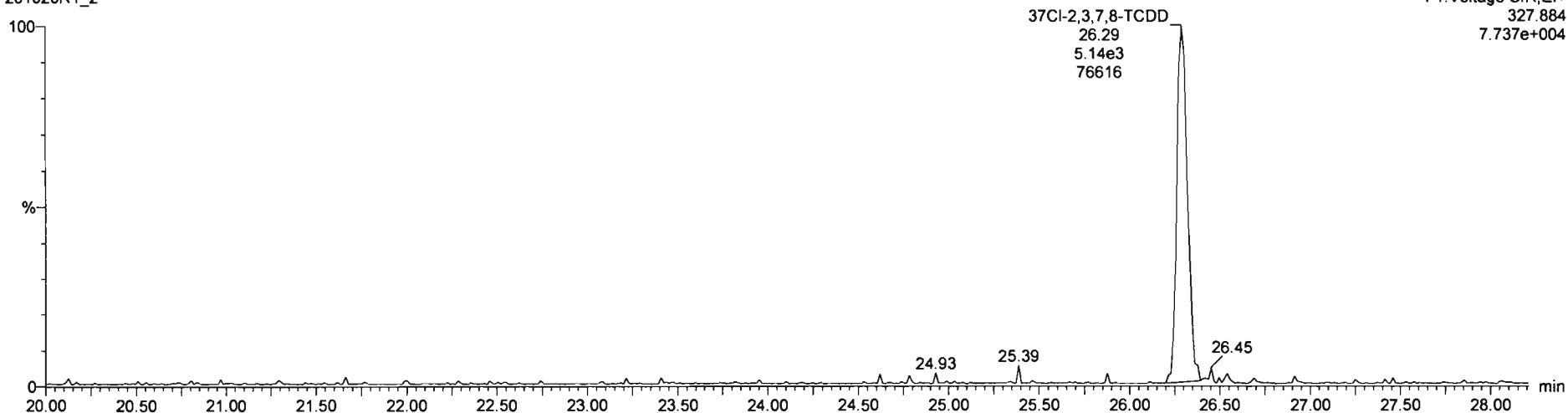
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Name: 201020R1_2, Date: 20-Oct-2020, Time: 10:04:05, ID: ST201020R1_2 1613 CS1 20F1103, Description: 1613 CS1 20F1103

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

201020R1_2

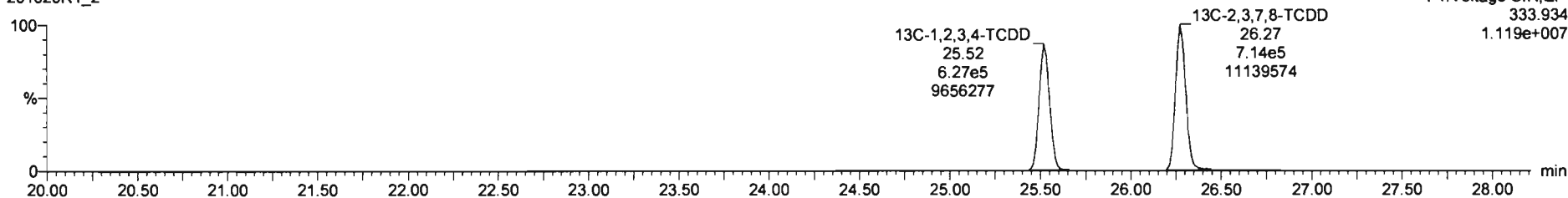


13C-1,2,3,4-TCDD

201020R1_2



201020R1_2



Dataset: Untitled

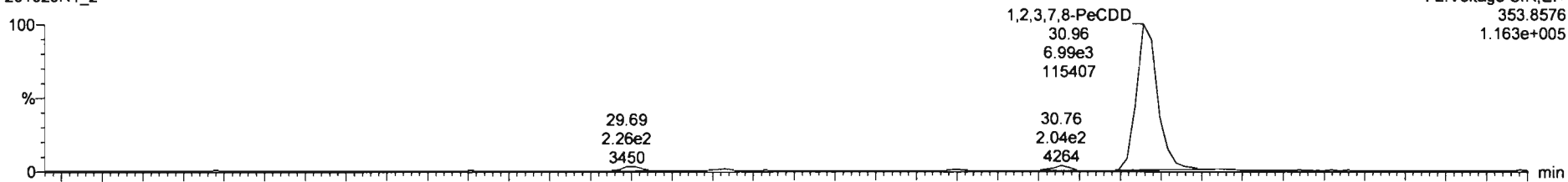
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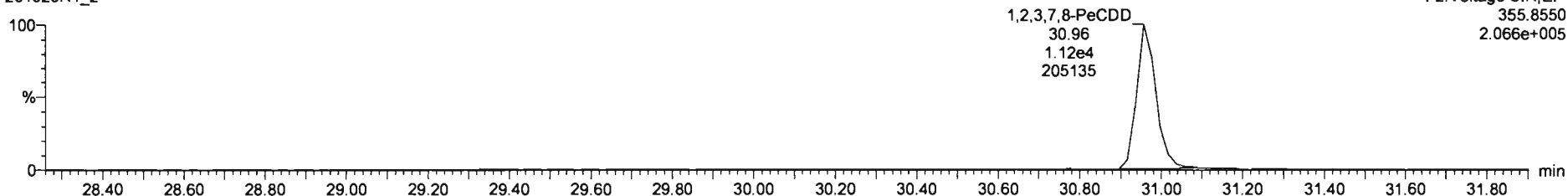
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1,2,3,7,8-PeCDD

201020R1_2



201020R1_2

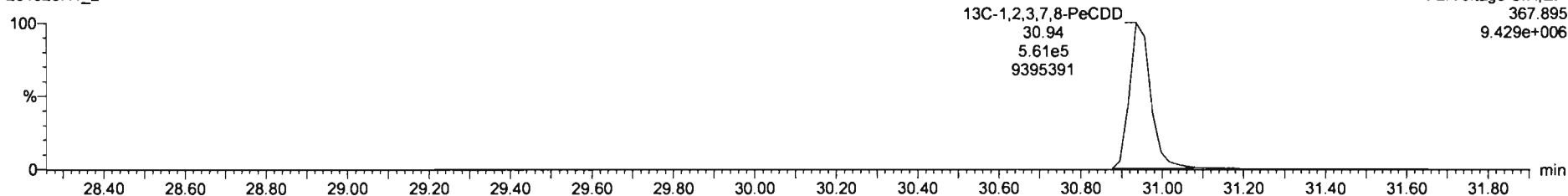


13C-1,2,3,7,8-PeCDD

201020R1_2



201020R1_2



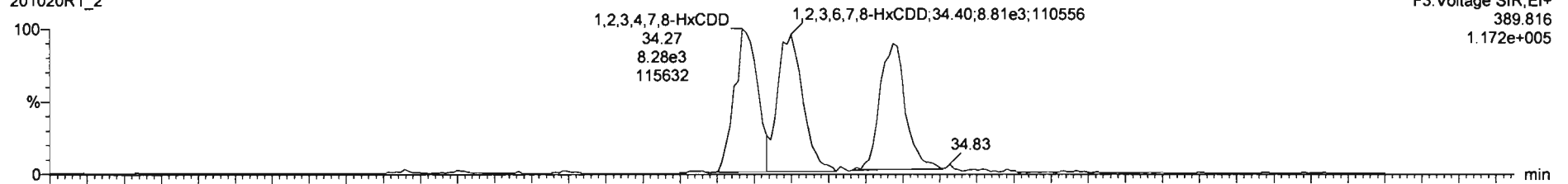
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

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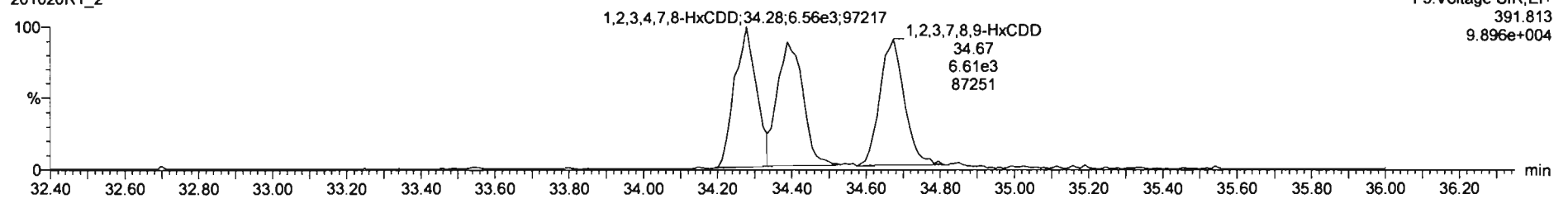
1,2,3,4,7,8-HxCDD

201020R1_2



F3:Voltage SIR,EI+
389.816
1.172e+005

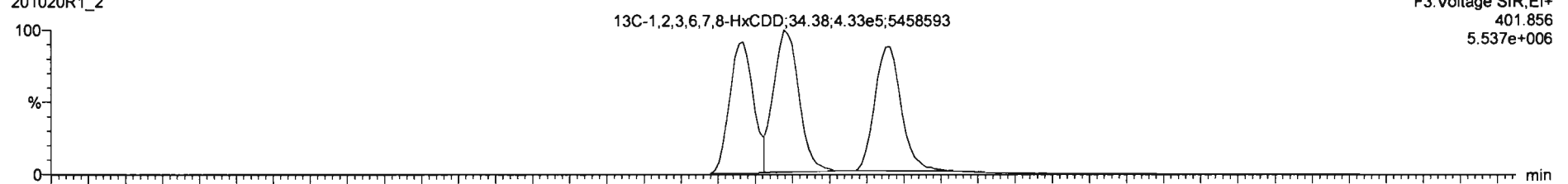
201020R1_2



F3:Voltage SIR,EI+
391.813
9.896e+004

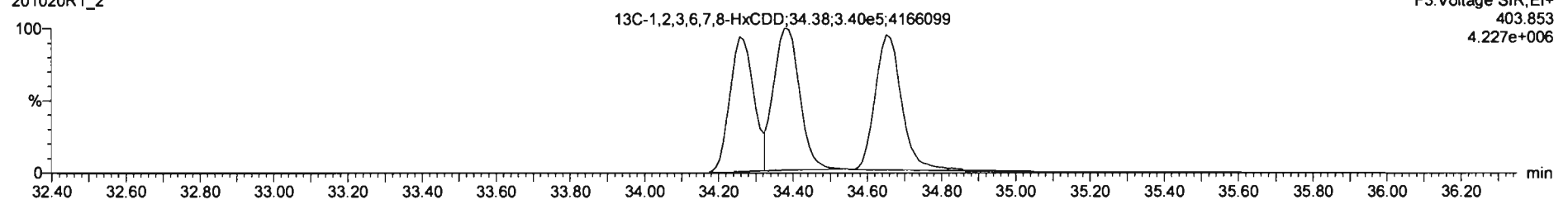
13C-1,2,3,4,7,8-HxCDD

201020R1_2



F3:Voltage SIR,EI+
401.856
5.537e+006

201020R1_2



F3:Voltage SIR,EI+
403.853
4.227e+006

Dataset: Untitled

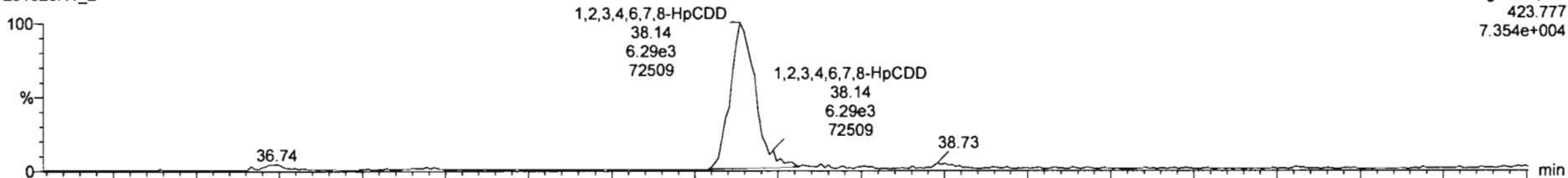
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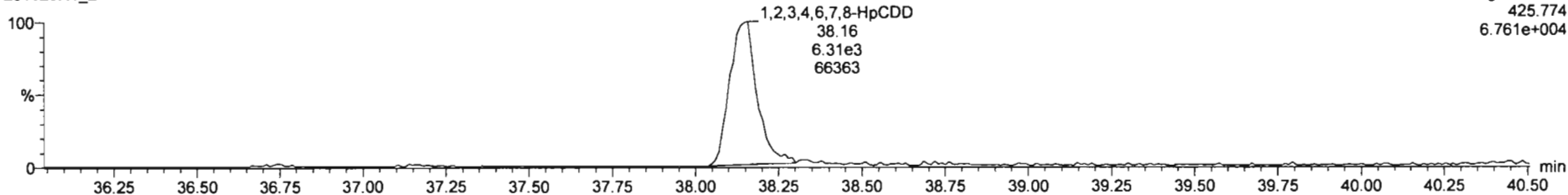
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1,2,3,4,6,7,8-HpCDD

201020R1_2

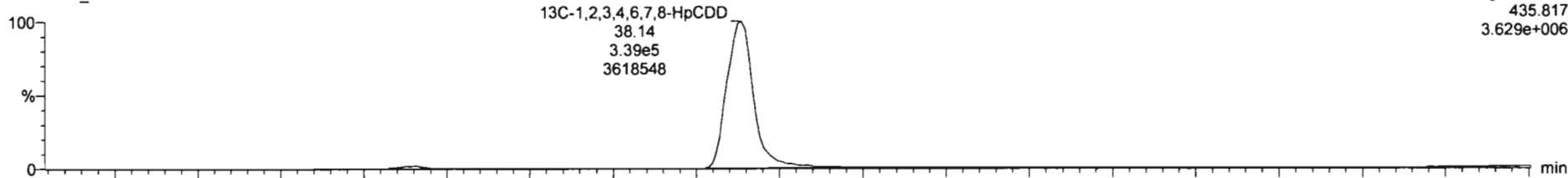


201020R1_2

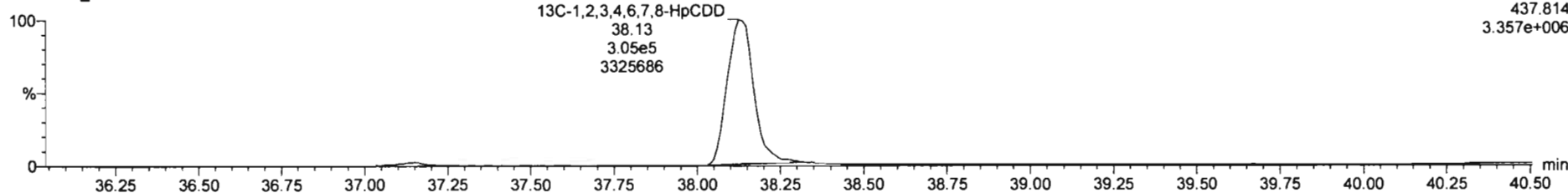


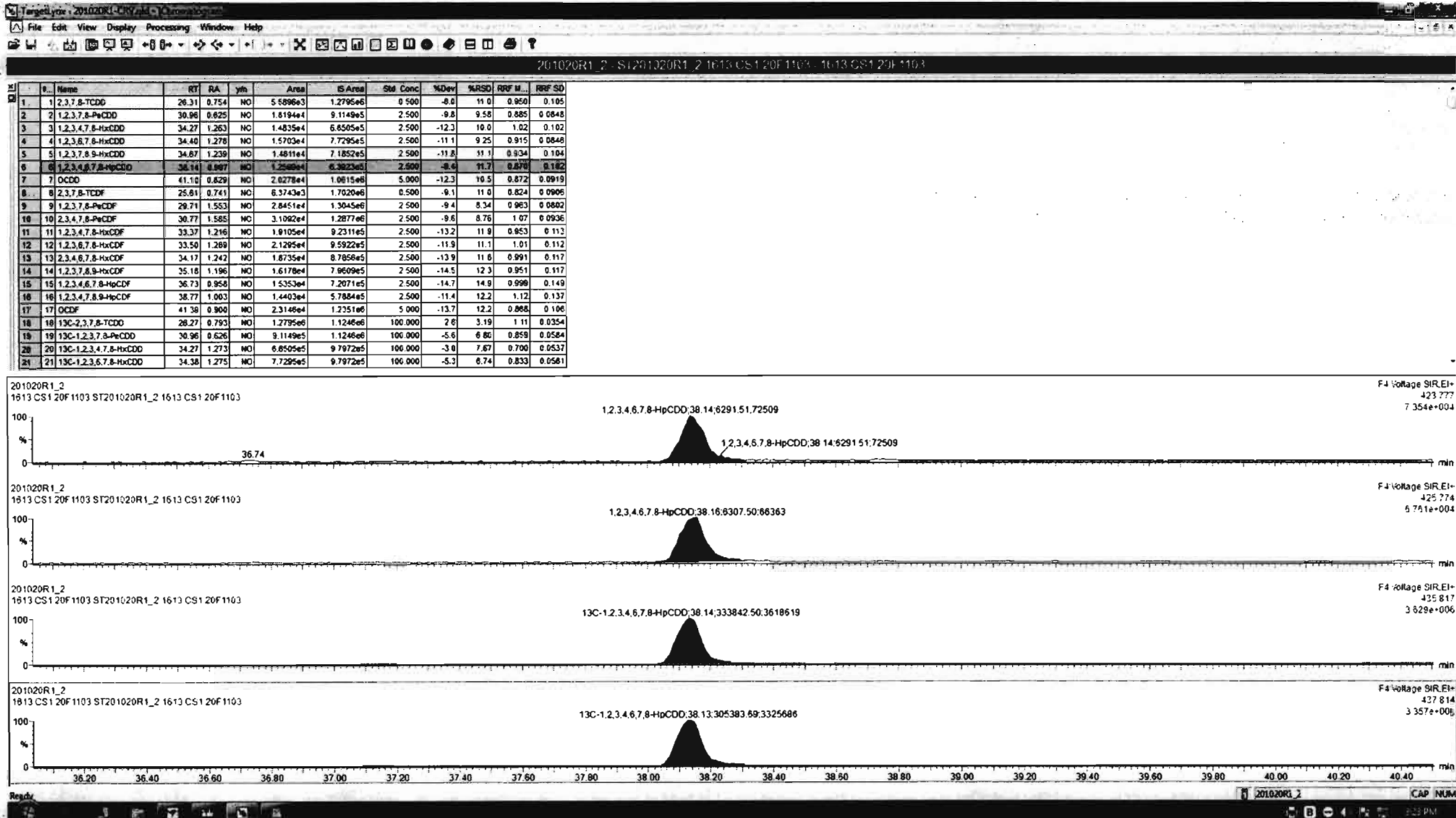
13C-1,2,3,4,6,7,8-HpCDD

201020R1_2



201020R1_2





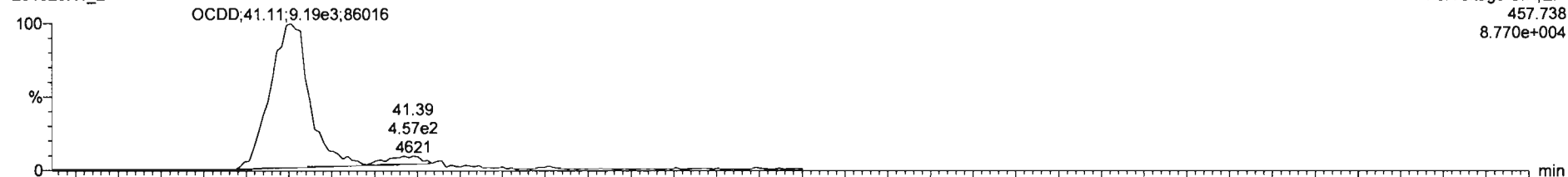
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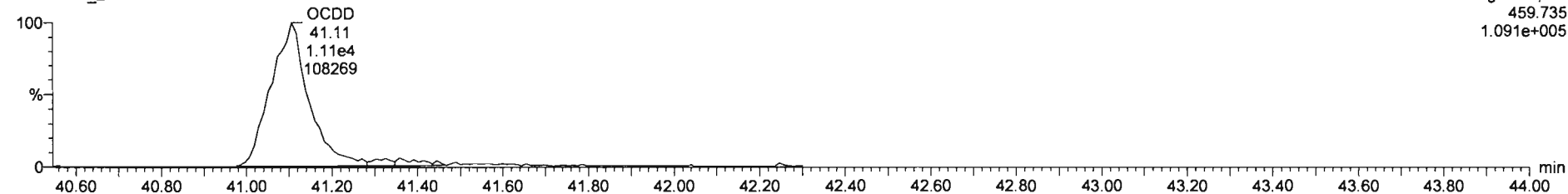
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OCDD

201020R1_2

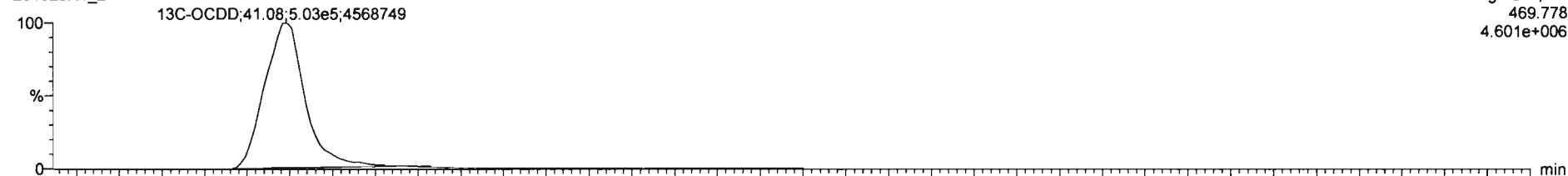


201020R1_2

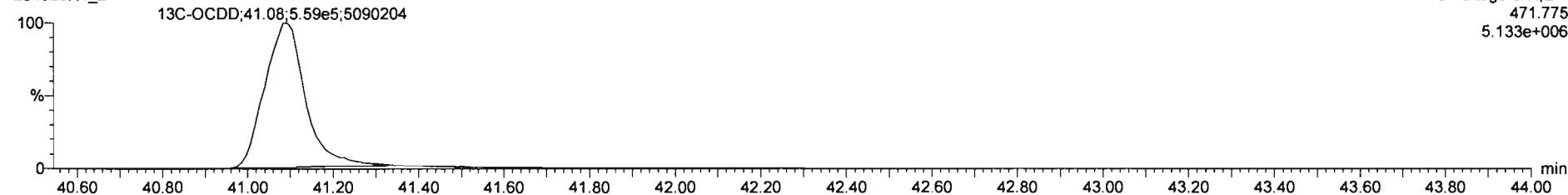


13C-OCDD

201020R1_2



201020R1_2



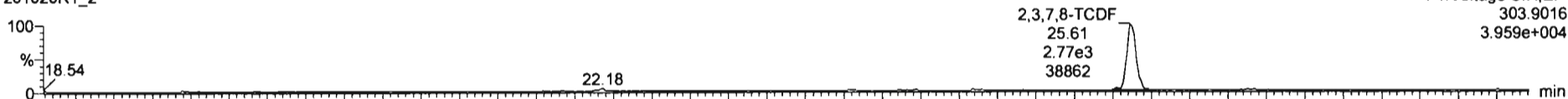
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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_2, Date: 20-Oct-2020, Time: 10:04:05, ID: ST201020R1_2 1613 CS1 20F1103, Description: 1613 CS1 20F1103

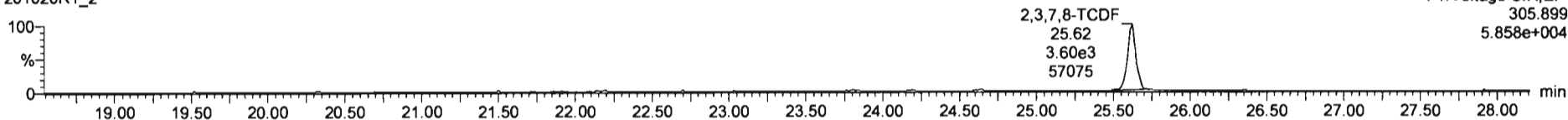
2,3,7,8-TCDF

201020R1_2



F1: Voltage SIR, EI+
303.9016
3.959e+004

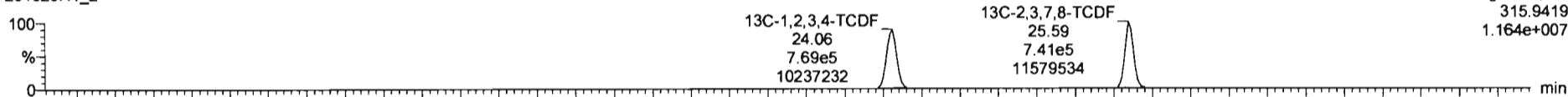
201020R1_2



F1: Voltage SIR, EI+
305.899
5.858e+004

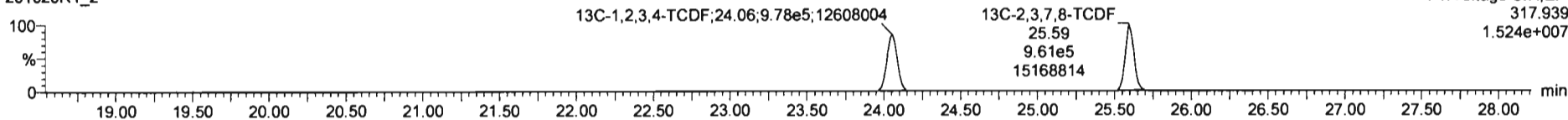
13C-2,3,7,8-TCDF

201020R1_2



F1: Voltage SIR, EI+
315.9419
1.164e+007

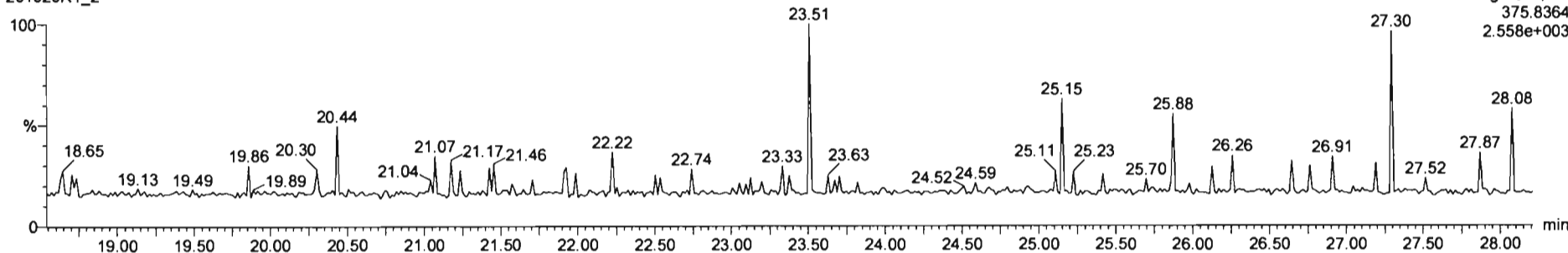
201020R1_2



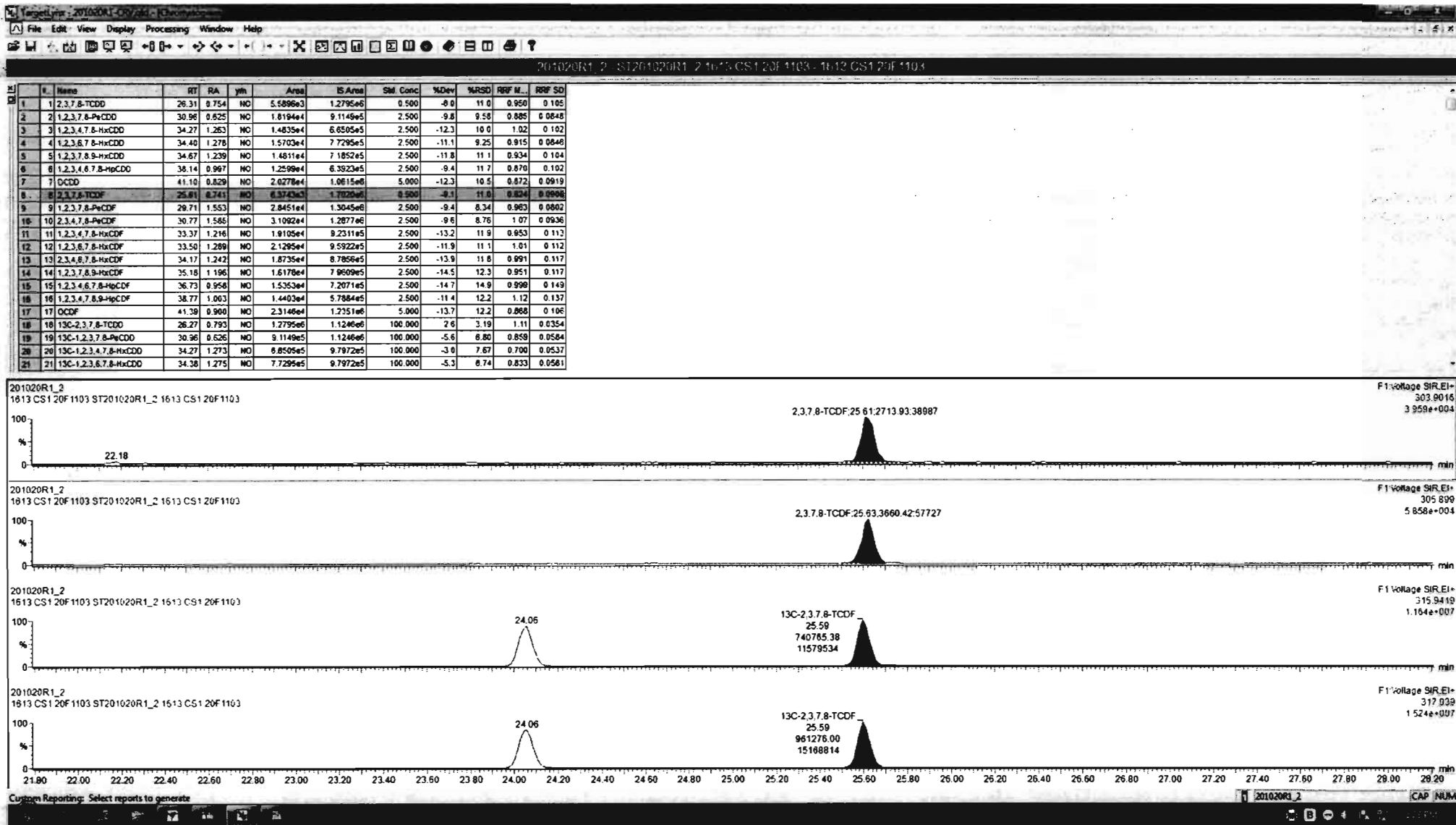
F1: Voltage SIR, EI+
317.939
1.524e+007

DPE1

201020R1_2



F1: Voltage SIR, EI+
375.8364
2.558e+003



Dataset: Untitled

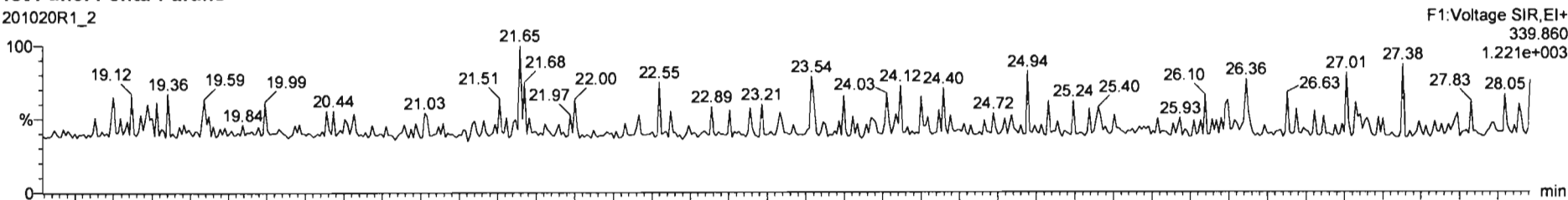
Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

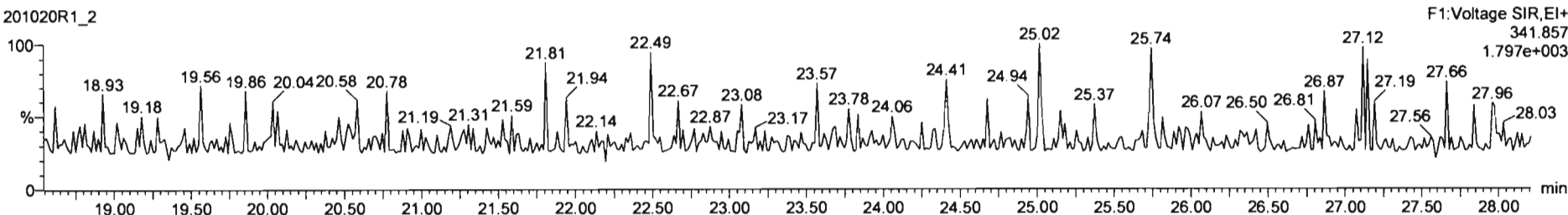
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1st Func. Penta-Furans

201020R1_2

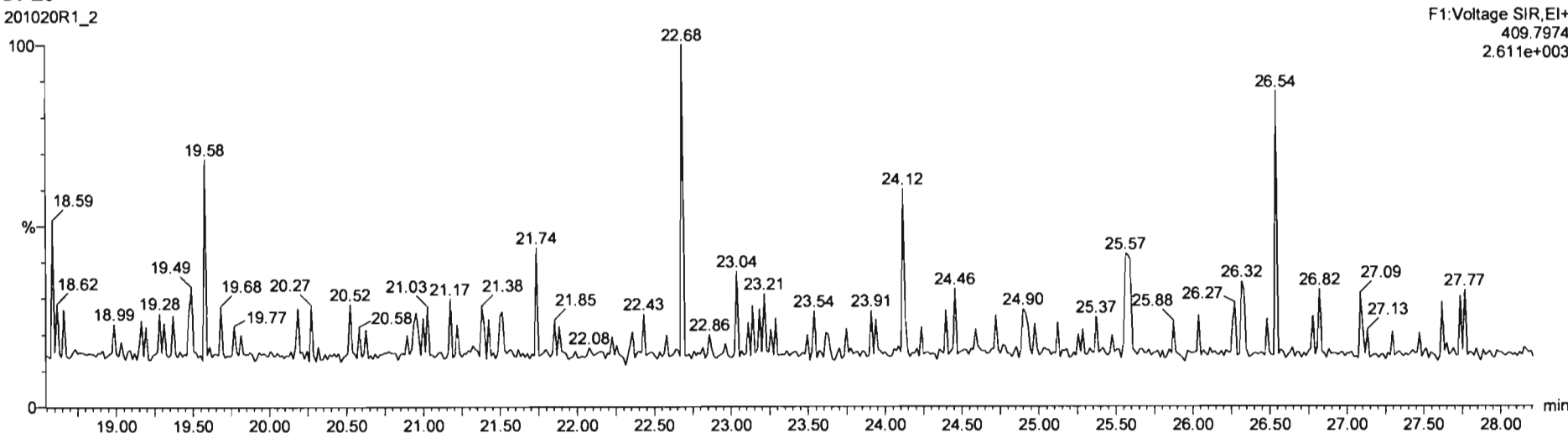


201020R1_2



DPE6

201020R1_2



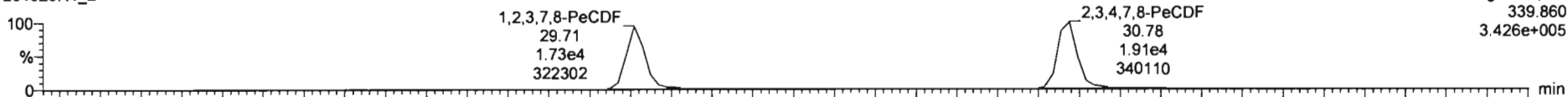
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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time
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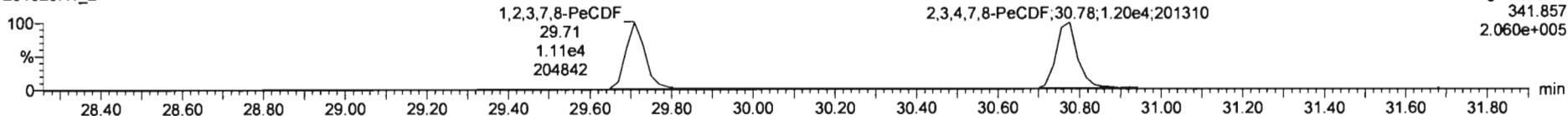
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1,2,3,7,8-PeCDF

201020R1_2

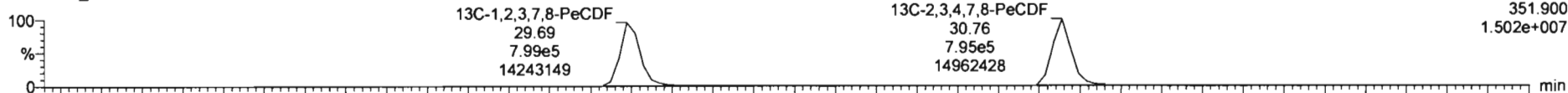


201020R1_2

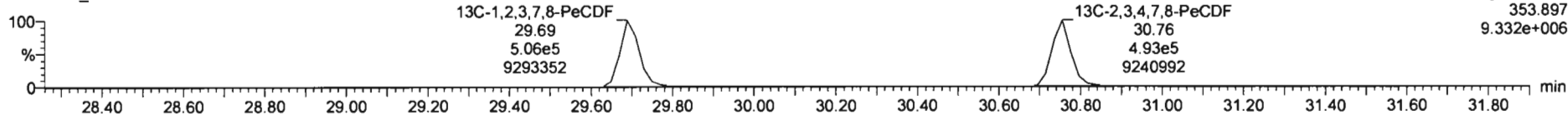


13C-1,2,3,7,8-PeCDF

201020R1_2

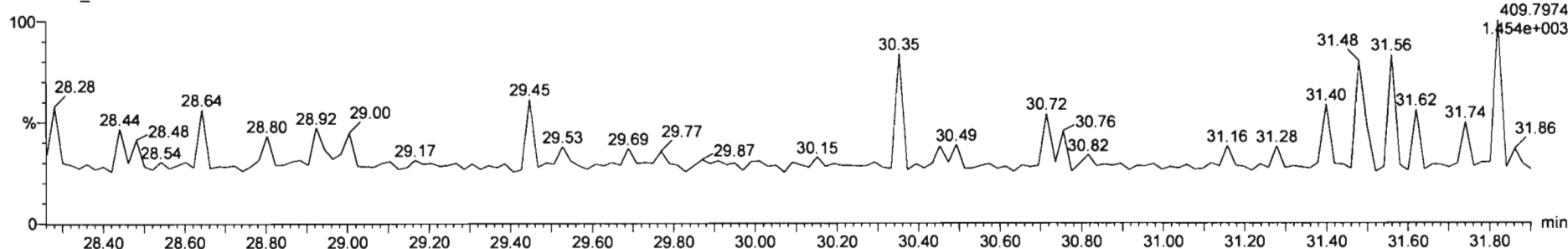


201020R1_2



DPE2

201020R1_2



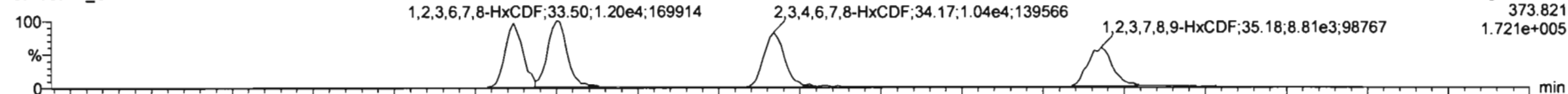
Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

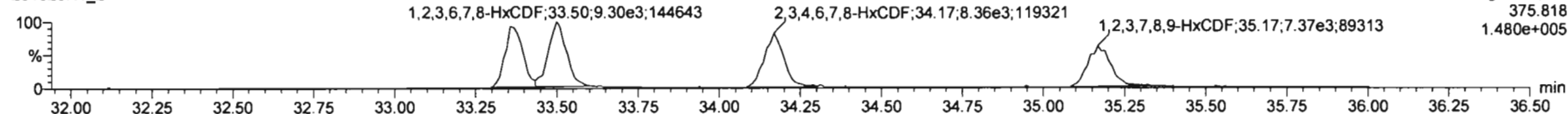
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1,2,3,4,7,8-HxCDF

201020R1_2

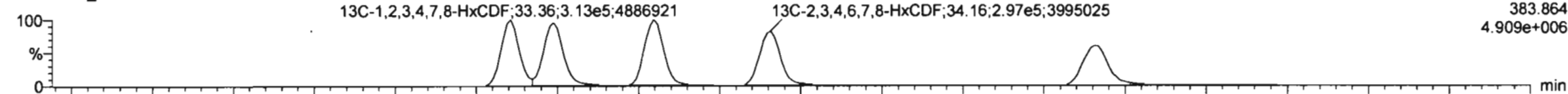


201020R1_2

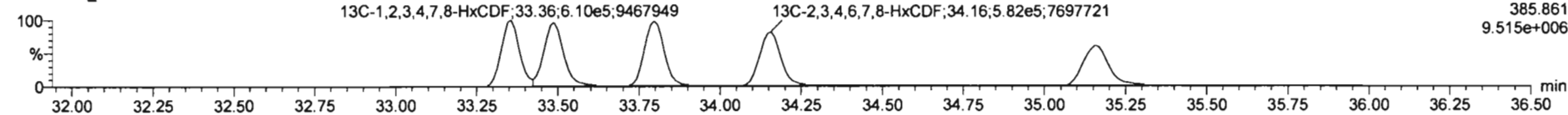


13C-1,2,3,4,7,8-HxCDF

201020R1_2

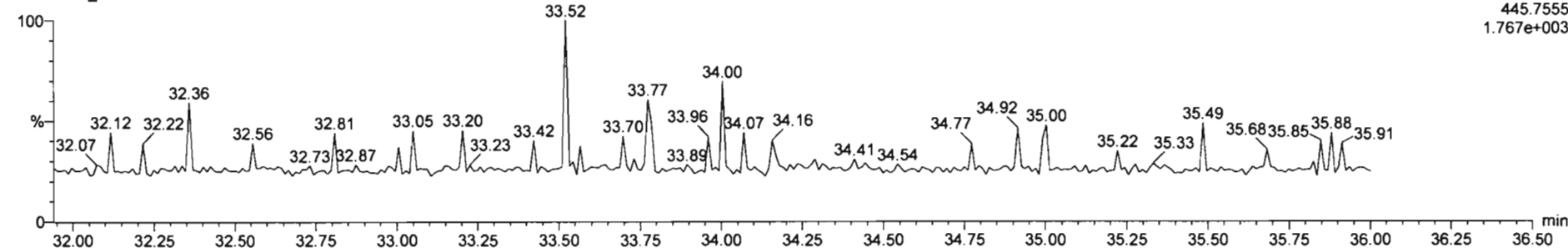


201020R1_2



DPE3

201020R1_2



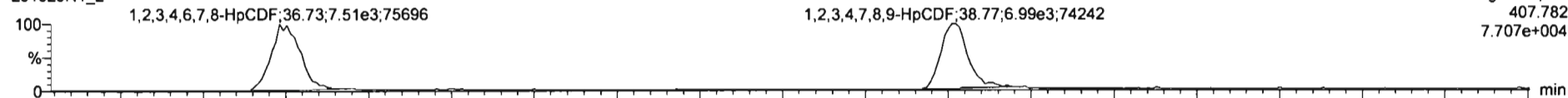
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

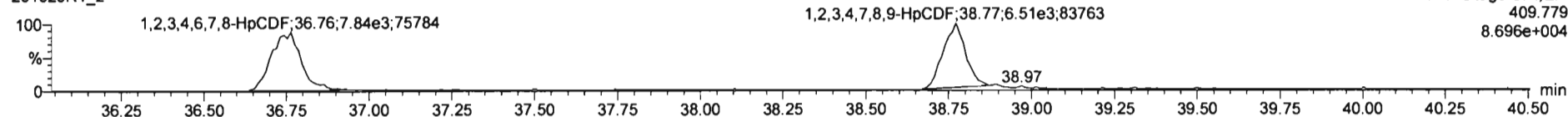
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1,2,3,4,6,7,8-HpCDF

201020R1_2

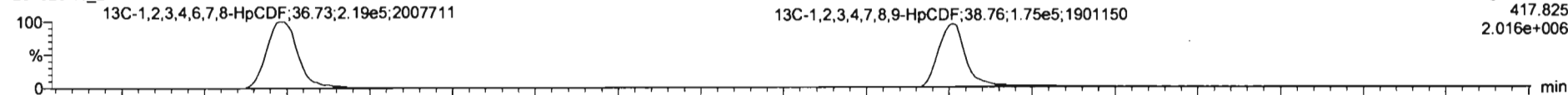


201020R1_2

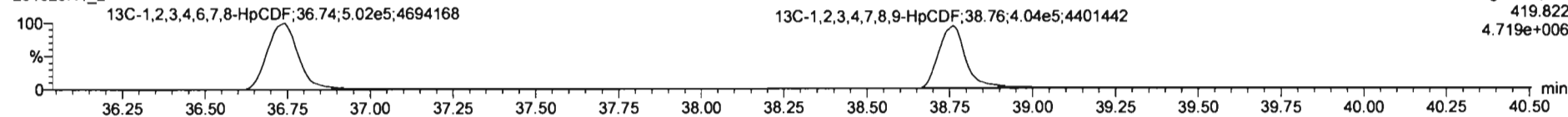


13C-1,2,3,4,6,7,8-HpCDF

201020R1_2

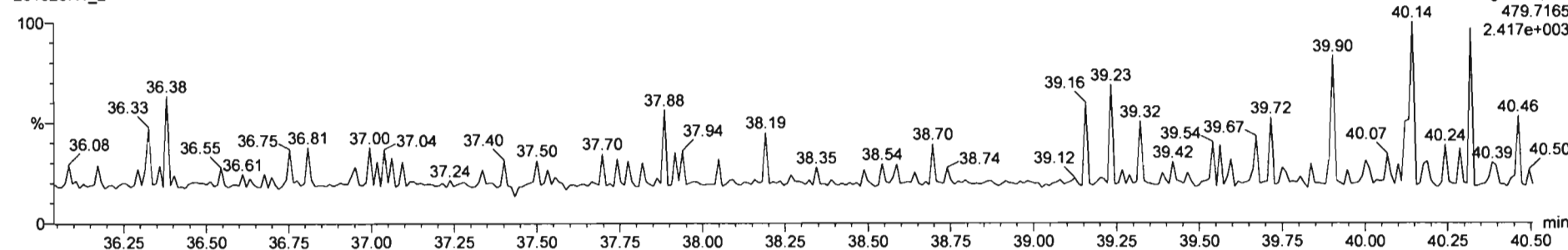


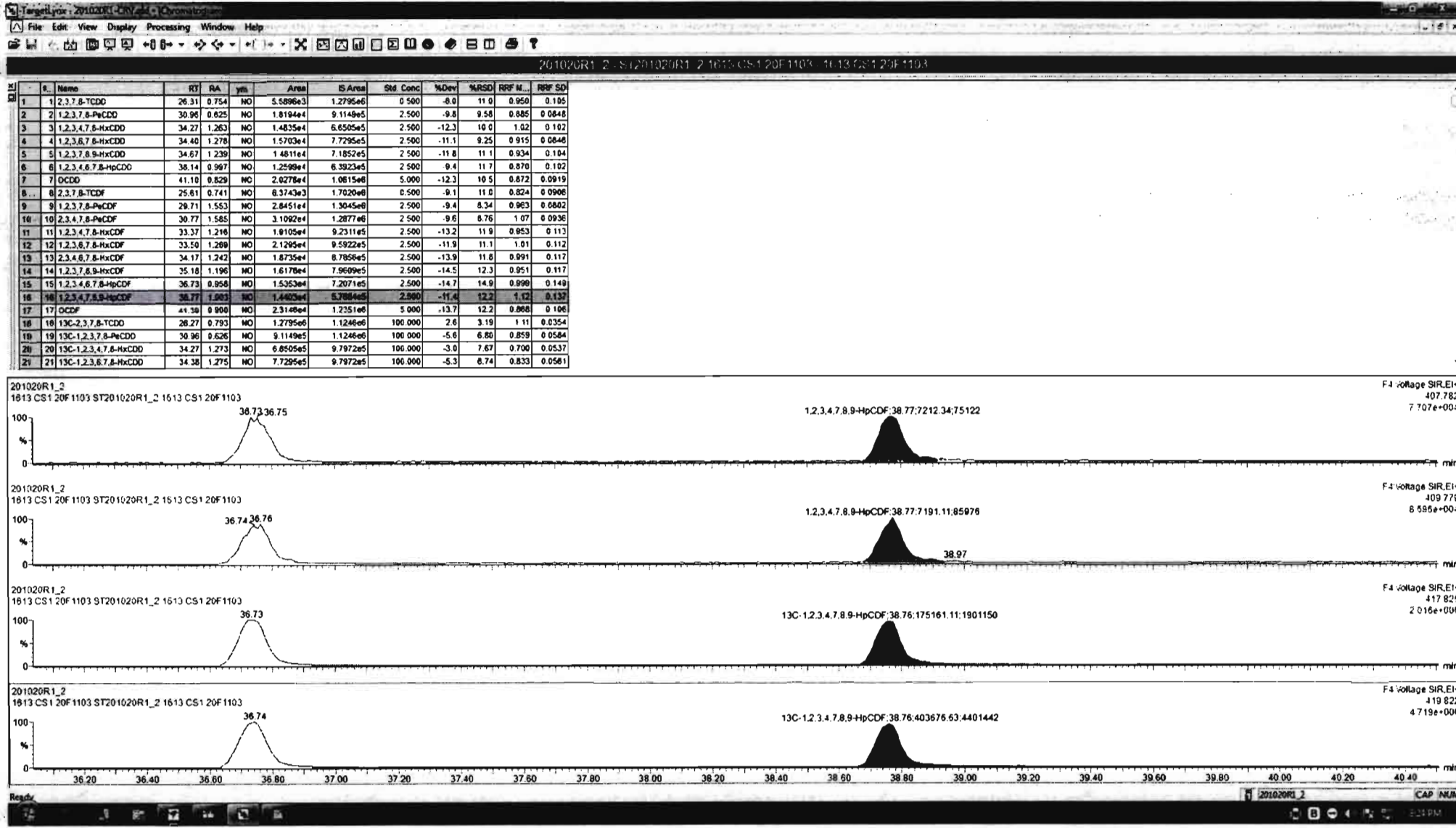
201020R1_2



DPE4

201020R1_2



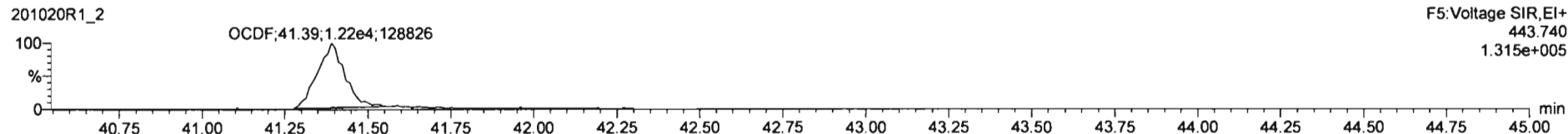
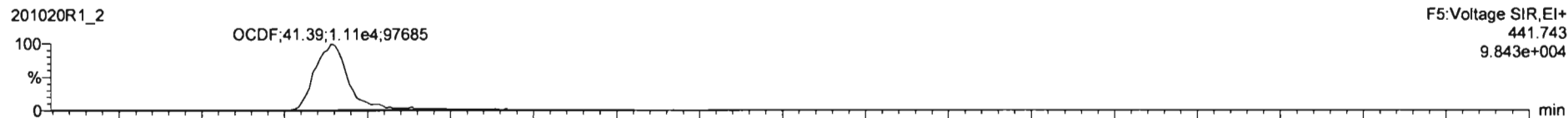


Dataset: Untitled

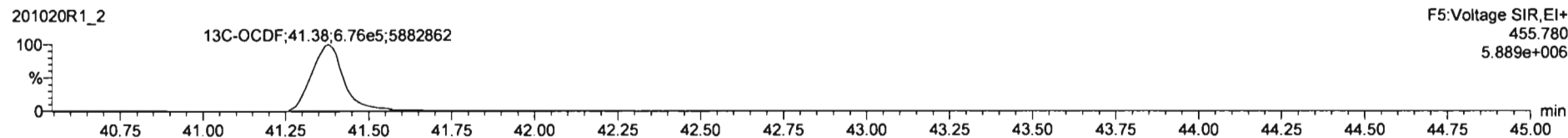
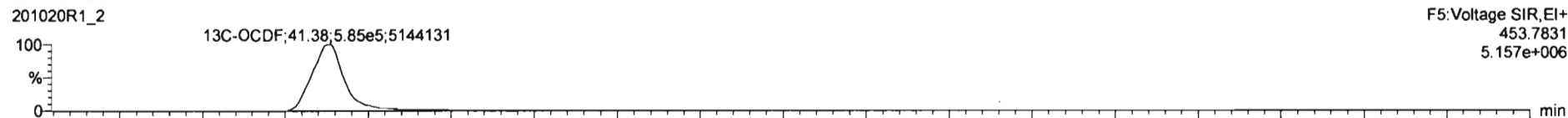
Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

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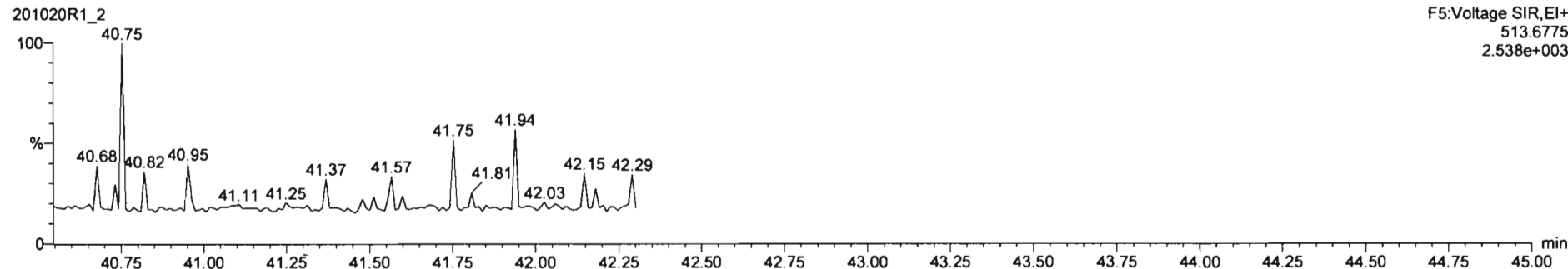
OCDF

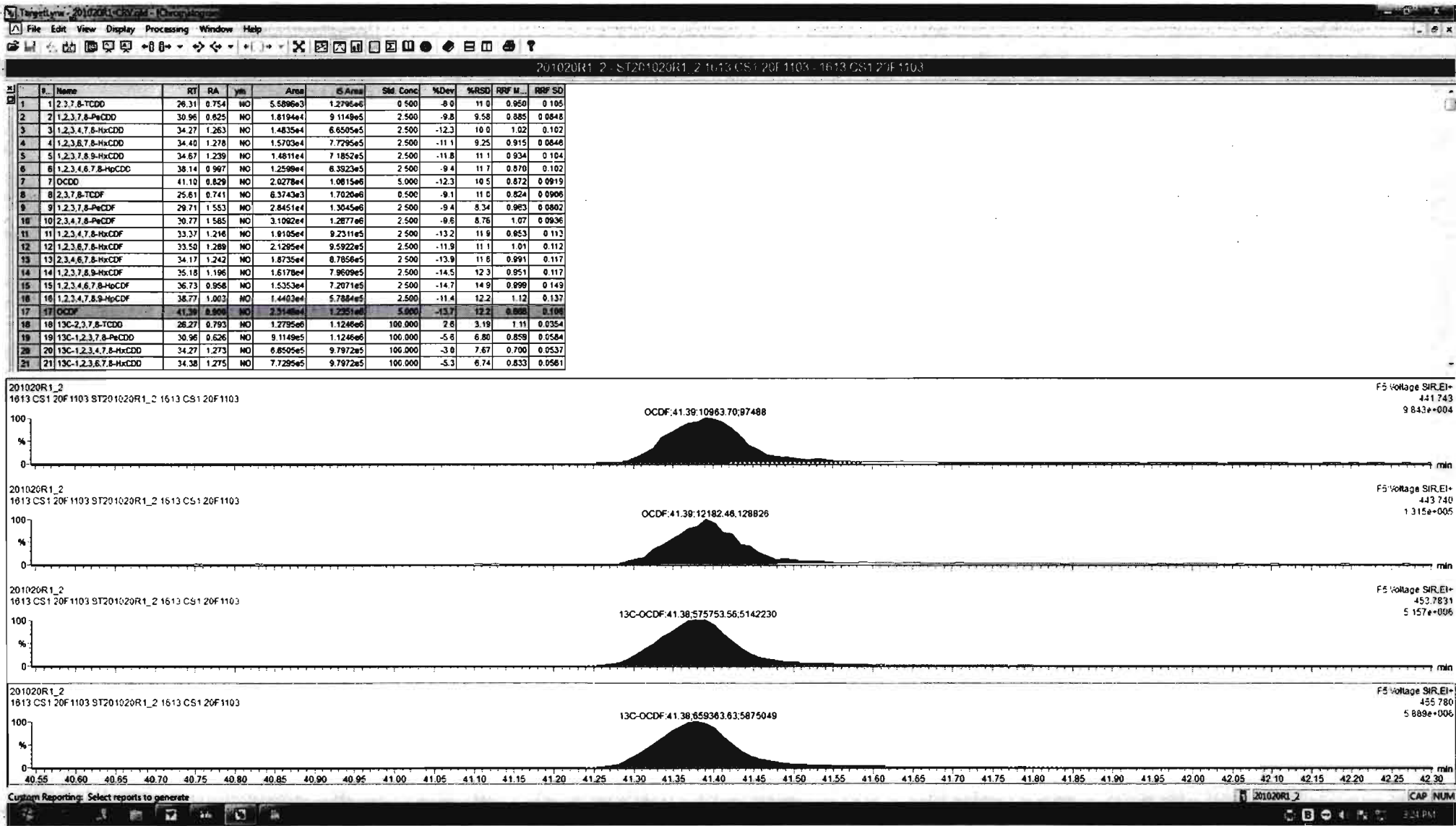


¹³C-OCDF



DPE5



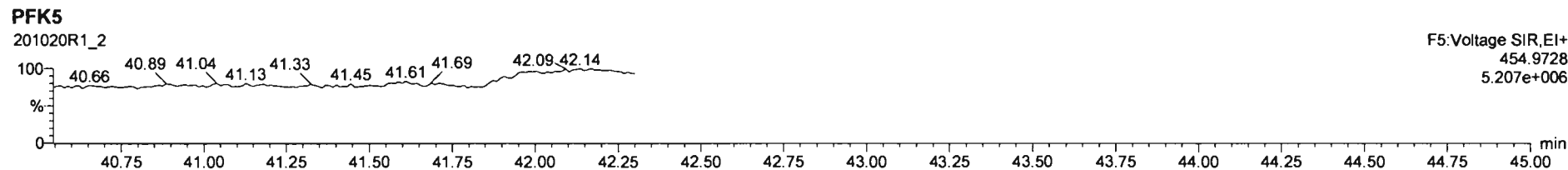
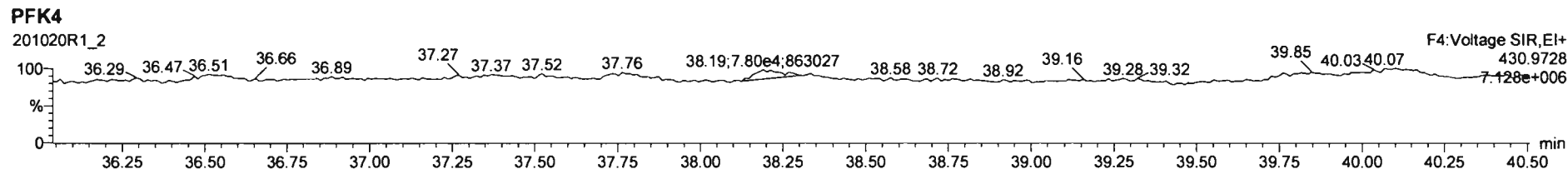
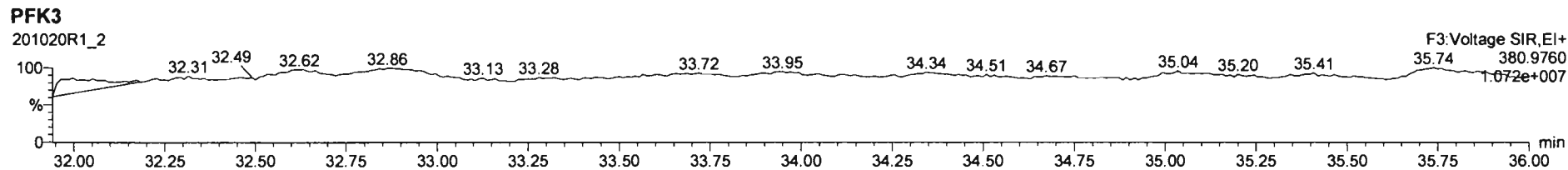
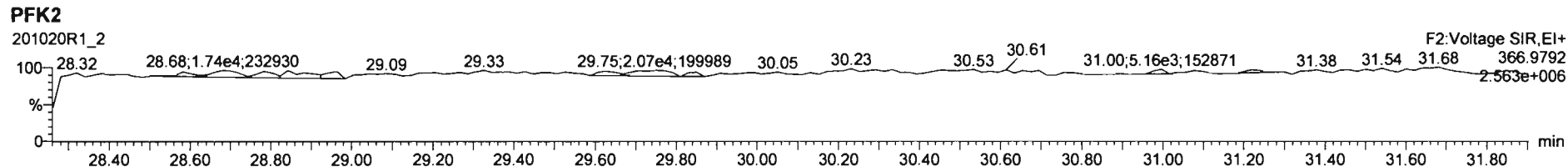
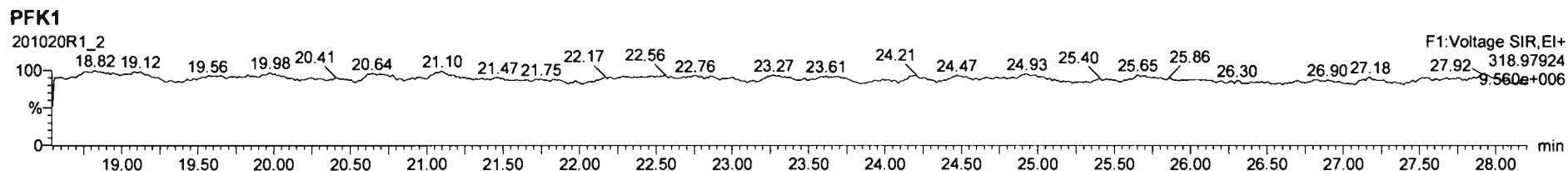


Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_2, Date: 20-Oct-2020, Time: 10:04:05, ID: ST201020R1_2 1613 CS1 20F1103, Description: 1613 CS1 20F1103



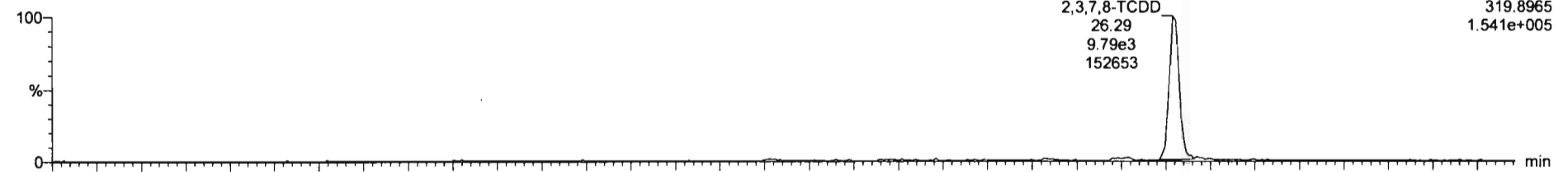
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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

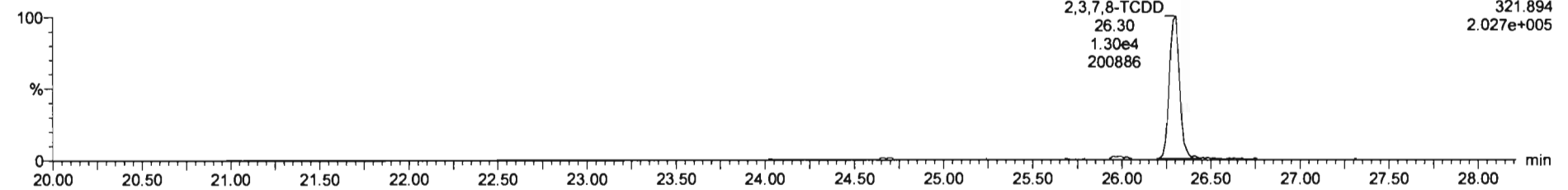
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2,3,7,8-TCDD

201020R1_3

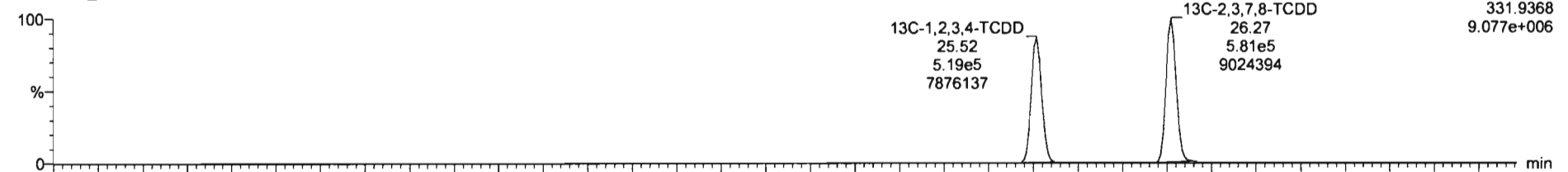


201020R1_3

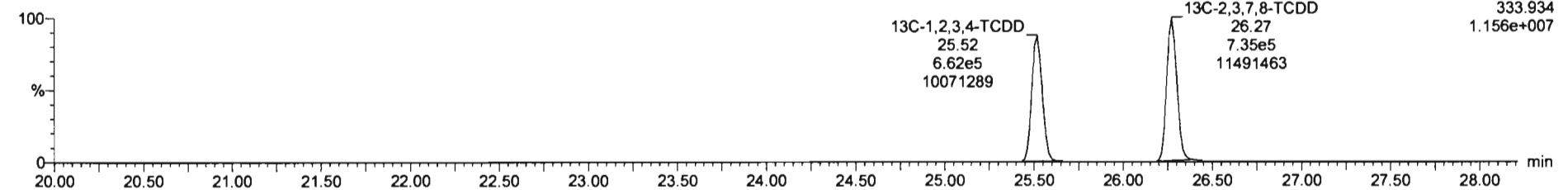


13C-2,3,7,8-TCDD

201020R1_3



201020R1_3



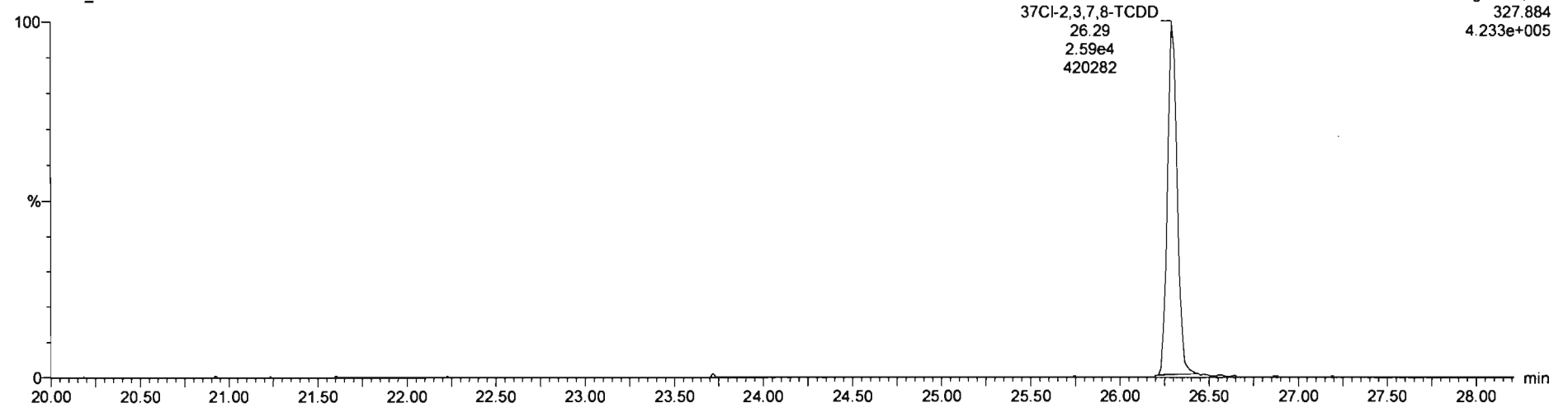
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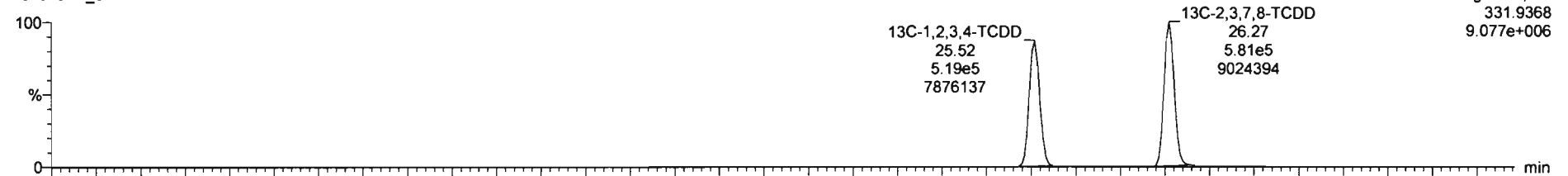
37Cl-2,3,7,8-TCDD

201020R1_3

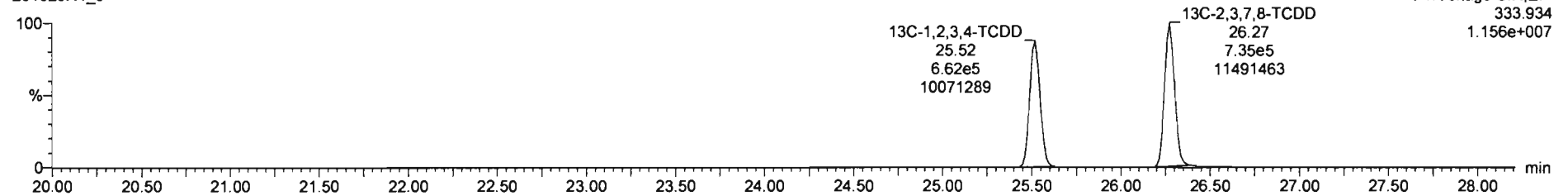


13C-1,2,3,4-TCDD

201020R1_3



201020R1_3



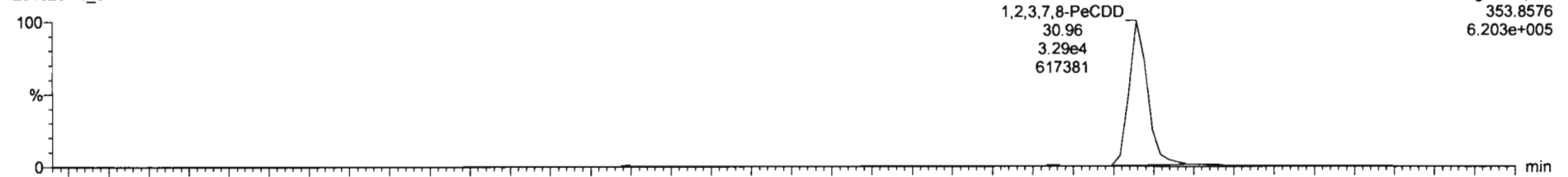
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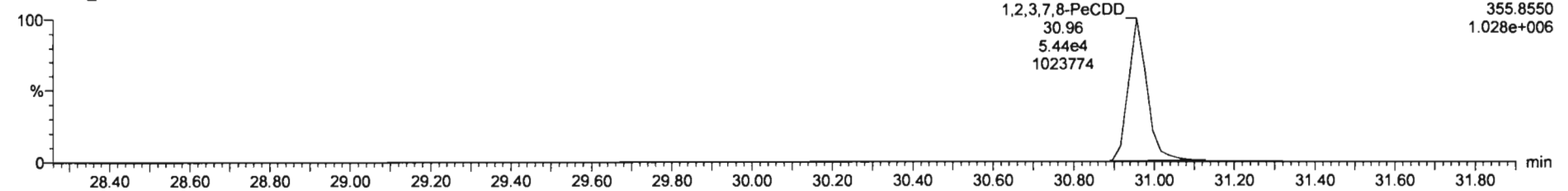
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1,2,3,7,8-PeCDD

201020R1_3

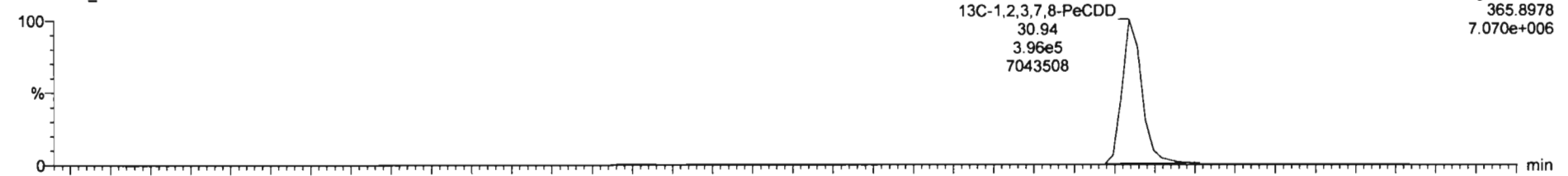


201020R1_3

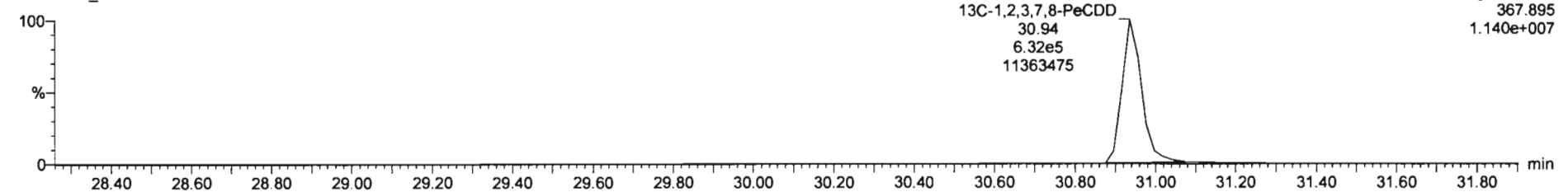


13C-1,2,3,7,8-PeCDD

201020R1_3



201020R1_3



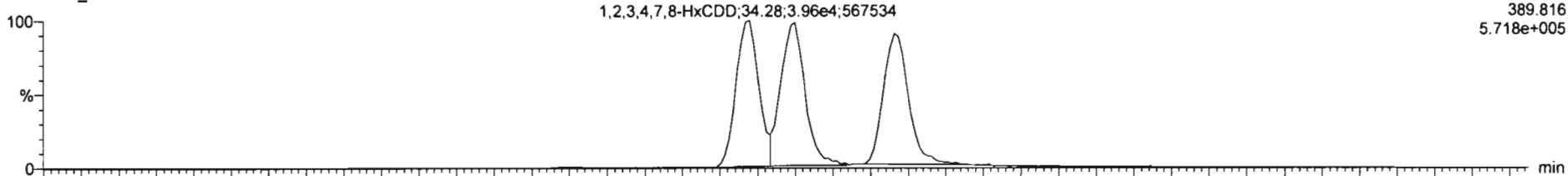
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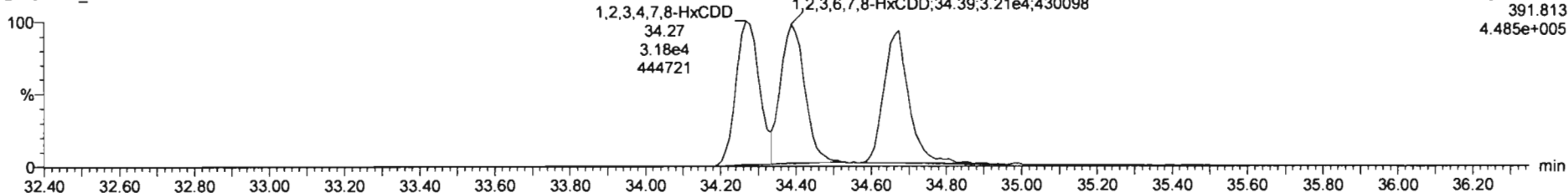
1,2,3,4,7,8-HxCDD

201020R1_3



F3:Voltage SIR,EI+
389.816
5.718e+005

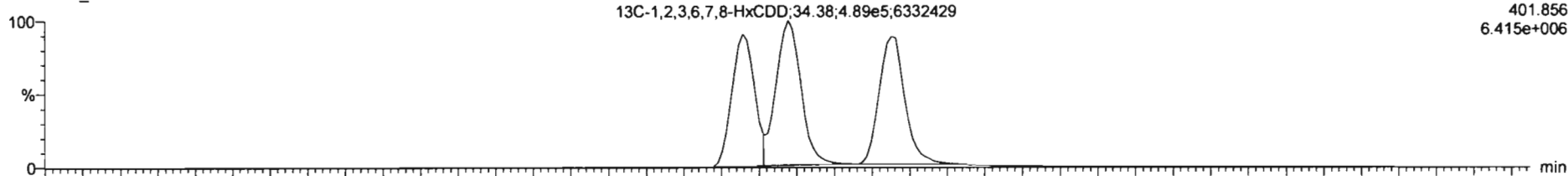
201020R1_3



F3:Voltage SIR,EI+
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4.485e+005

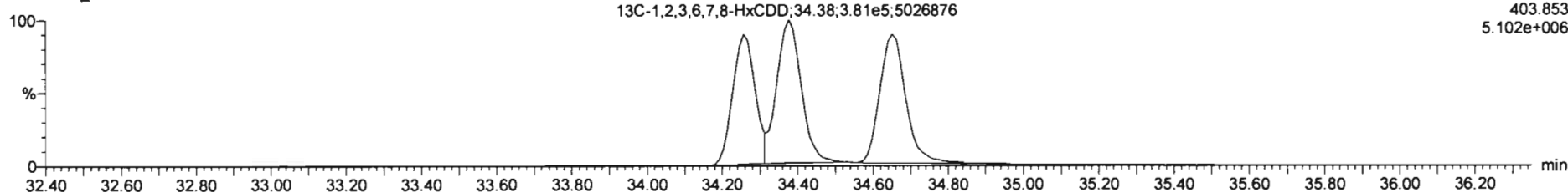
13C-1,2,3,4,7,8-HxCDD

201020R1_3



F3:Voltage SIR,EI+
401.856
6.415e+006

201020R1_3



F3:Voltage SIR,EI+
403.853
5.102e+006

Dataset: Untitled

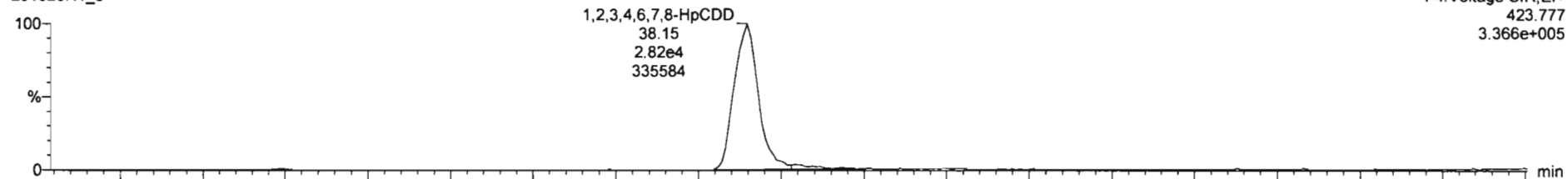
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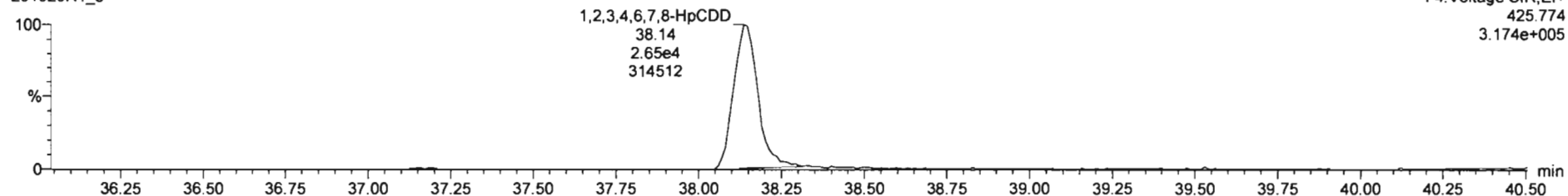
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1,2,3,4,6,7,8-HpCDD

201020R1_3

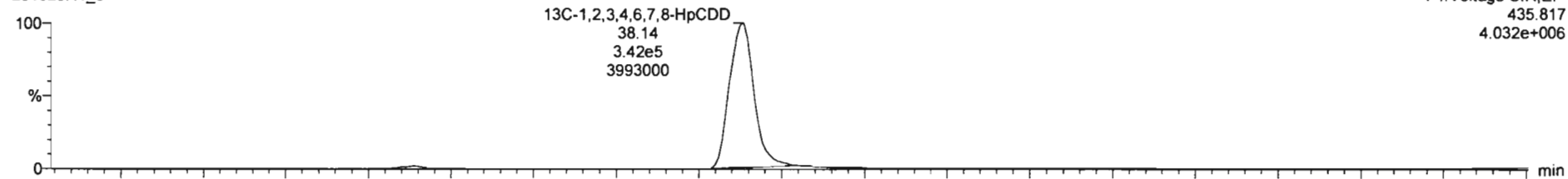


201020R1_3

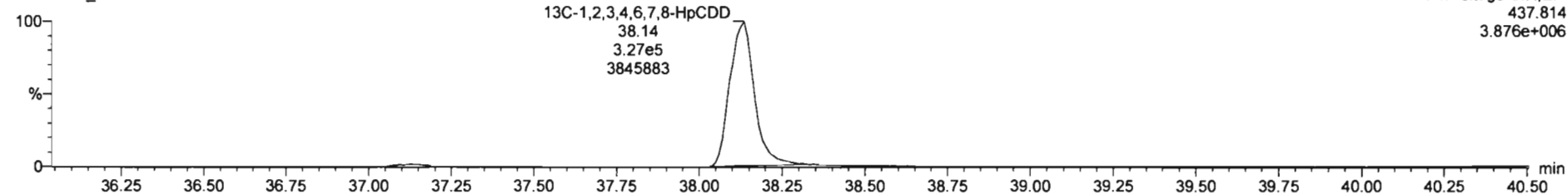


13C-1,2,3,4,6,7,8-HpCDD

201020R1_3



201020R1_3



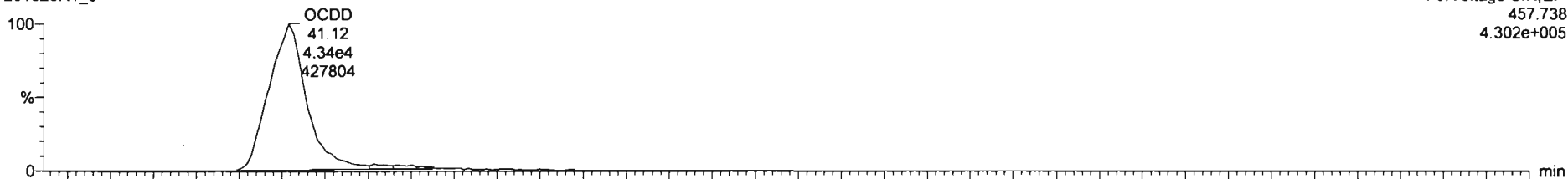
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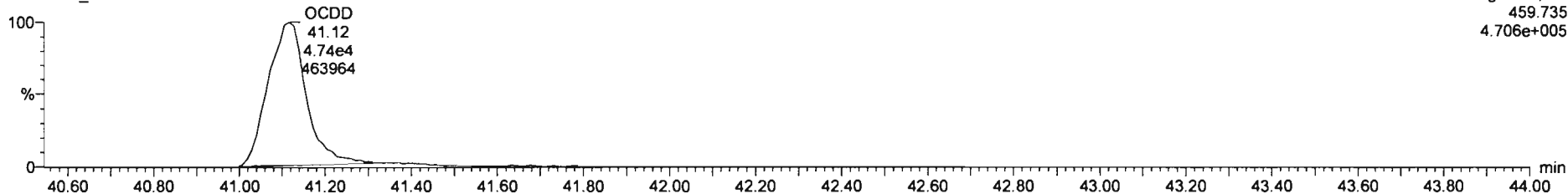
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OCDD

201020R1_3

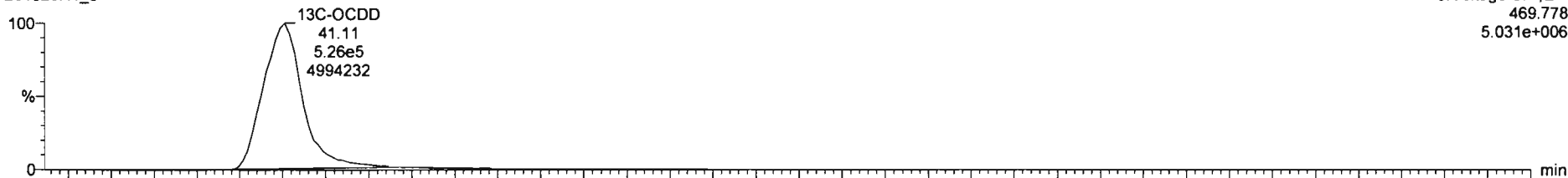


201020R1_3

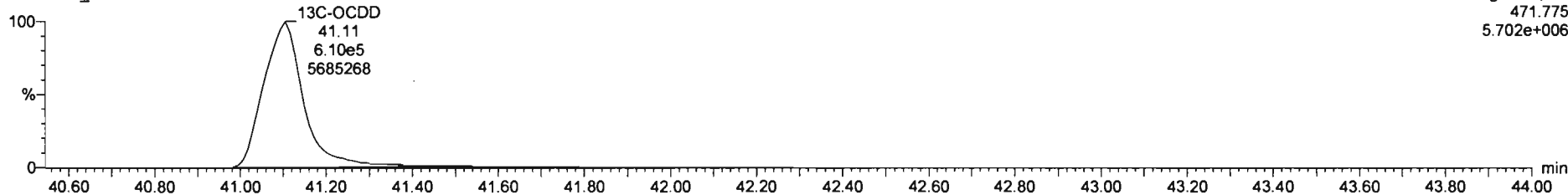


13C-OCDD

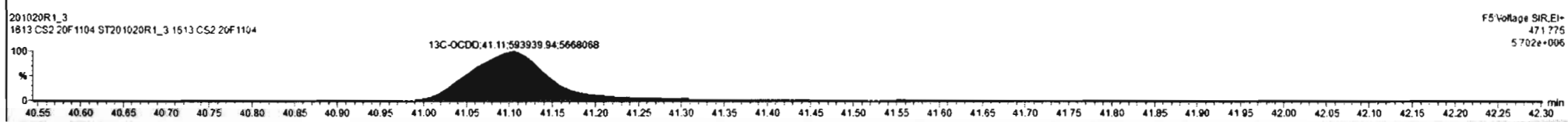
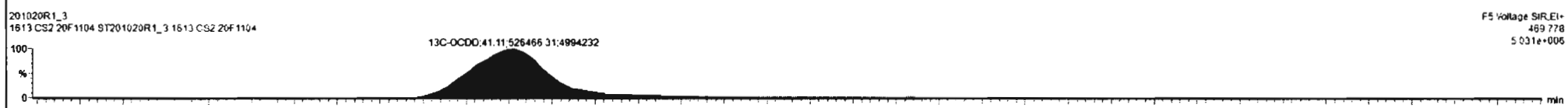
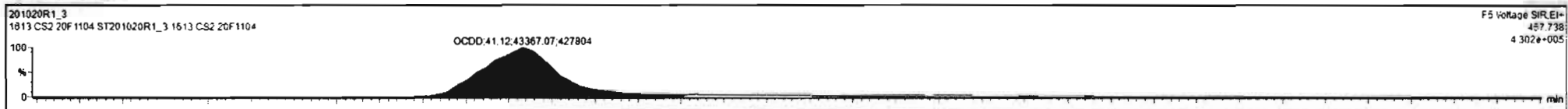
201020R1_3



201020R1_3



#	Name	RT	RA	Yth	Area	S Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.29	0.754	NO	2.2771e4	1.3154e6	2.000	-8.9	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.606	NO	8.7271e4	1.0279e6	10.000	-4.1	9.58	0.885	0.0648
3	1,2,3,4,7,8-HxCDD	34.28	1.245	NO	7.1328e4	7.0709e5	10.000	-0.9	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.40	1.293	NO	7.3710e4	8.6983e5	10.000	-7.3	9.25	0.915	0.0648
5	1,2,3,7,8,9-HxCDD	34.66	1.247	NO	7.9437e4	8.0052e5	10.000	-5.8	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.15	1.064	NO	5.4634e4	6.6949e5	10.000	-6.2	11.7	0.870	0.102
7	OCDD	41.12	0.814	NO	0.8612e4	1.1294e6	20.000	-7.8	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.769	NO	2.7891e4	1.8231e6	2.000	-7.2	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.71	1.596	NO	1.3197e5	1.4163e6	10.000	-3.2	8.34	0.963	0.0802
10	2,3,4,7,8-PeCDF	30.75	1.621	NO	1.5088e5	1.4537e6	10.000	-2.9	6.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.227	NO	9.2409e4	9.7566e5	10.000	-0.7	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.228	NO	1.0008e5	1.0311e6	10.000	-3.7	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.17	1.274	NO	9.1698e4	9.5781e5	10.000	-3.4	11.8	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.17	1.191	NO	7.4121e4	8.2291e5	10.000	-5.2	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.74	0.994	NO	7.2756e4	7.9997e5	10.000	-8.9	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.022	NO	5.9875e4	5.7733e5	10.000	-7.7	12.2	1.12	0.137
17	OCDF	41.40	0.875	NO	1.0781e5	1.2683e6	20.000	-3.6	12.2	0.868	0.106
18	13C-2,3,7,8-TCDD	26.27	0.790	NO	1.3154e6	1.1805e6	100.000	0.5	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.94	0.627	NO	1.0279e6	1.1805e6	100.000	1.4	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.28	1.291	NO	7.0709e5	1.0495e6	100.000	-3.7	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.38	1.266	NO	8.6983e5	1.0495e6	100.000	-0.5	8.74	0.833	0.0561



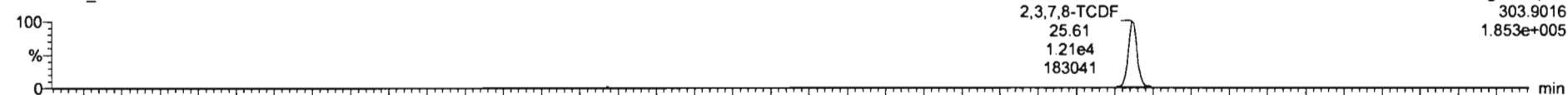
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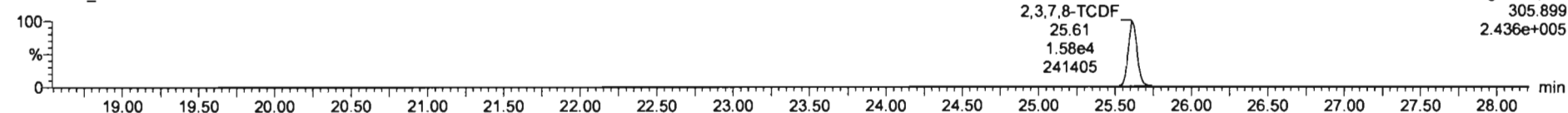
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2,3,7,8-TCDF

201020R1_3

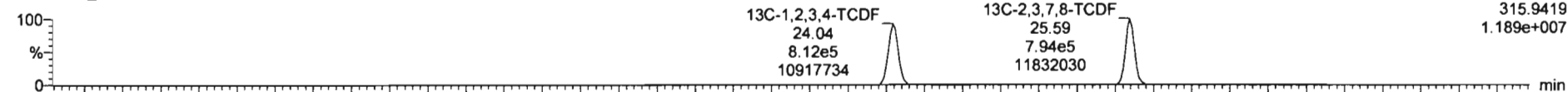


201020R1_3

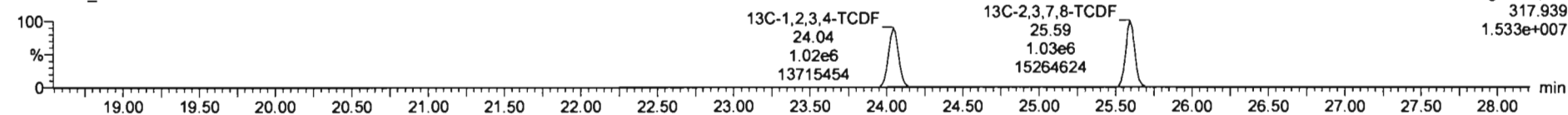


13C-2,3,7,8-TCDF

201020R1_3

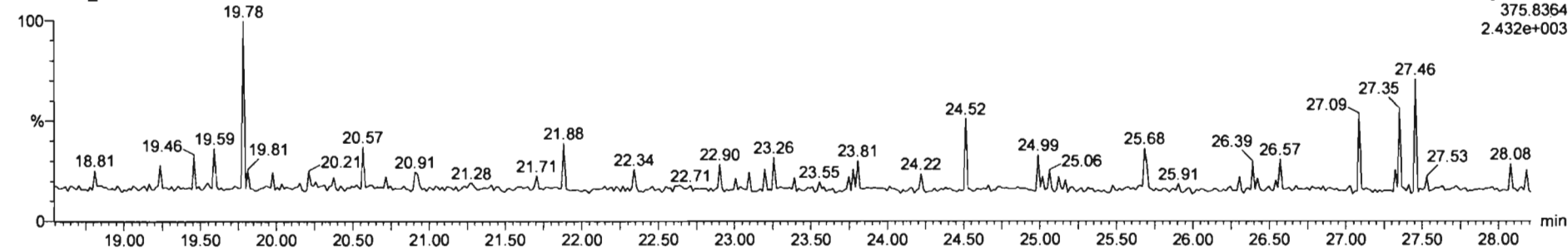


201020R1_3



DPE1

201020R1_3



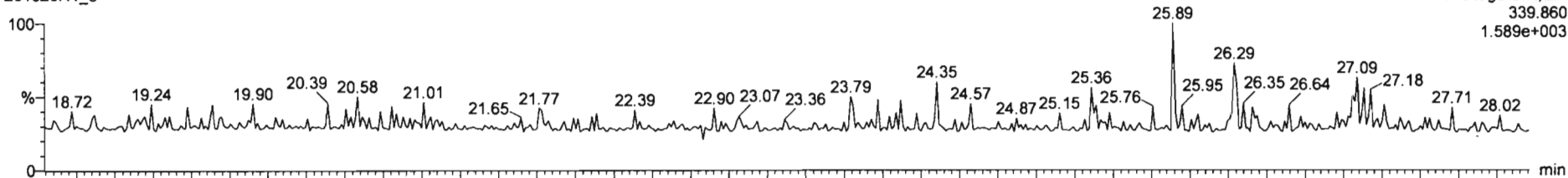
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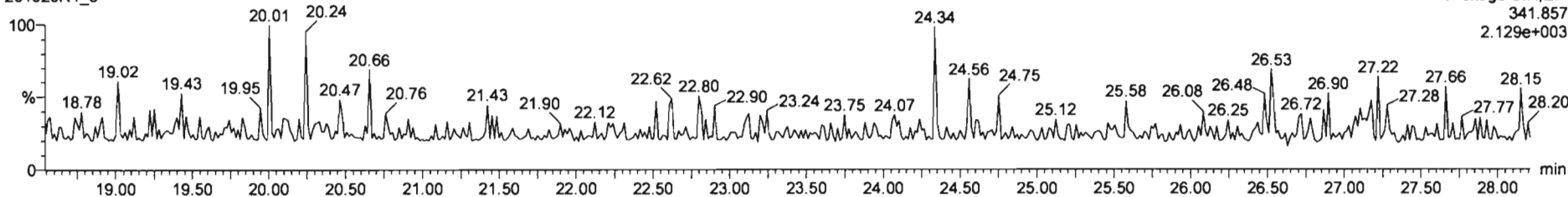
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1st Func. Penta-Furans

201020R1_3

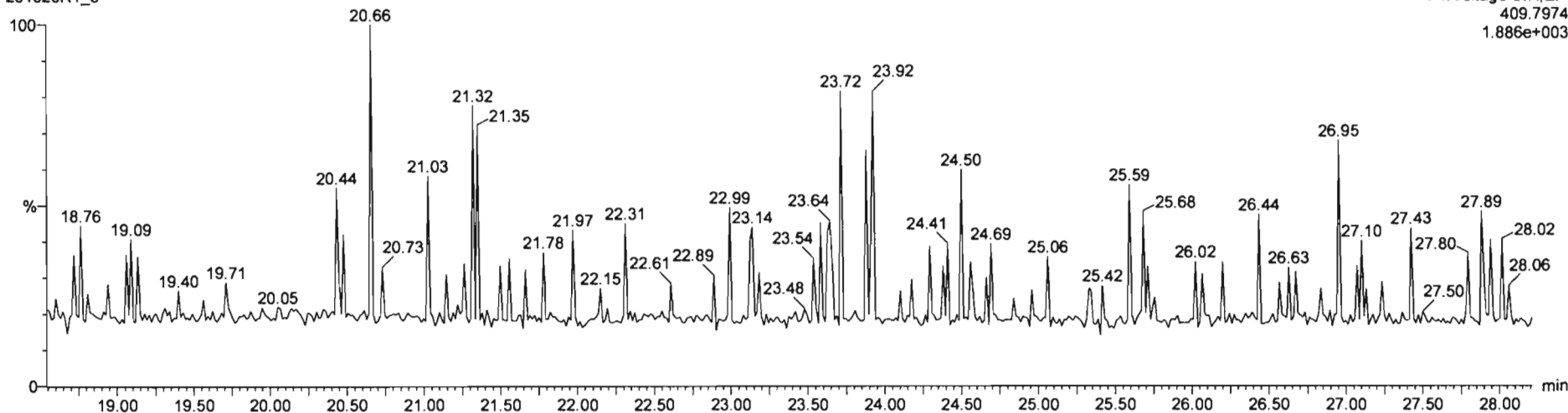


201020R1_3



DPE6

201020R1_3



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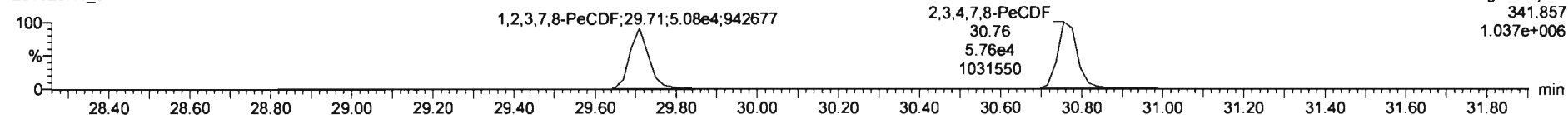
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1,2,3,7,8-PeCDF

201020R1_3

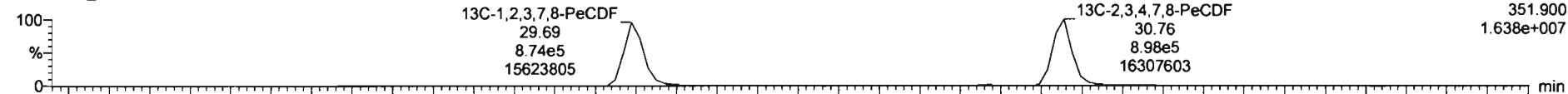


201020R1_3

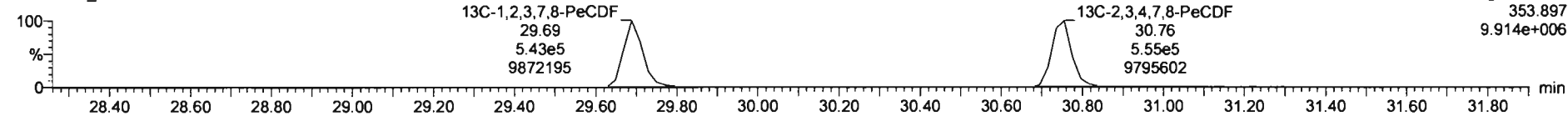


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201020R1_3

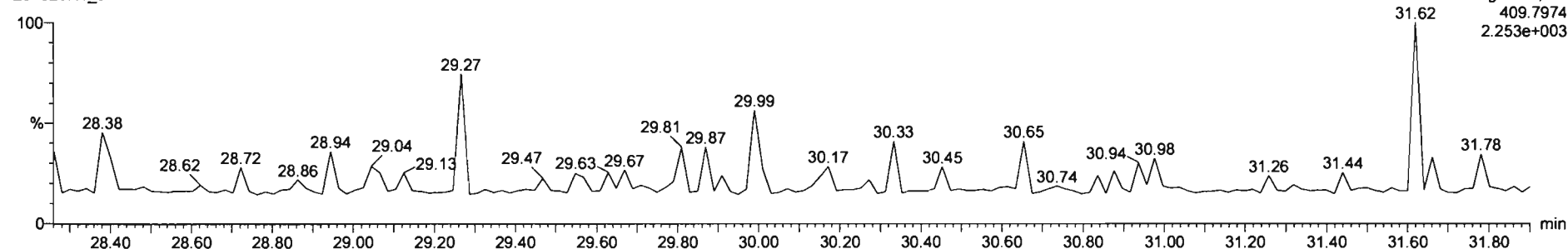


201020R1_3



DPE2

201020R1_3



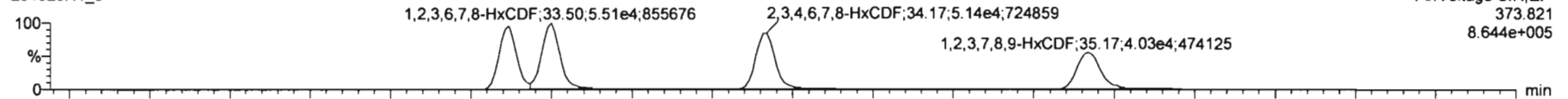
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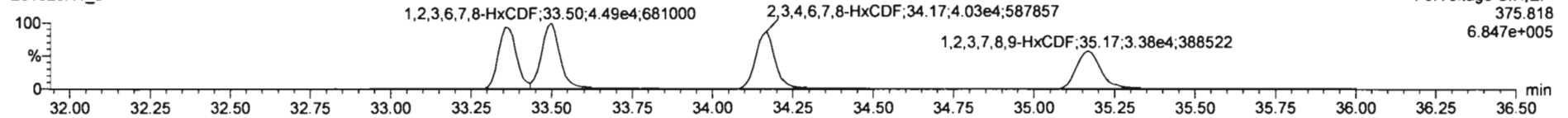
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1,2,3,4,7,8-HxCDF

201020R1_3

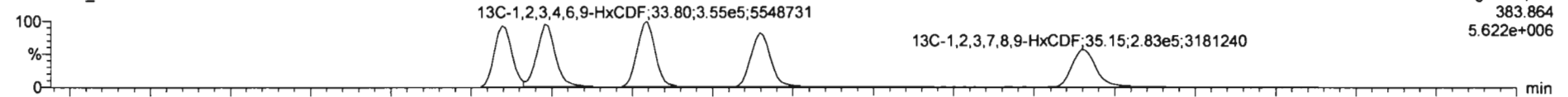


201020R1_3

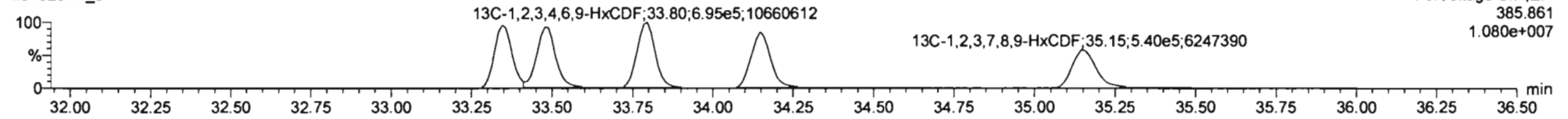


13C-1,2,3,4,7,8-HxCDF

201020R1_3

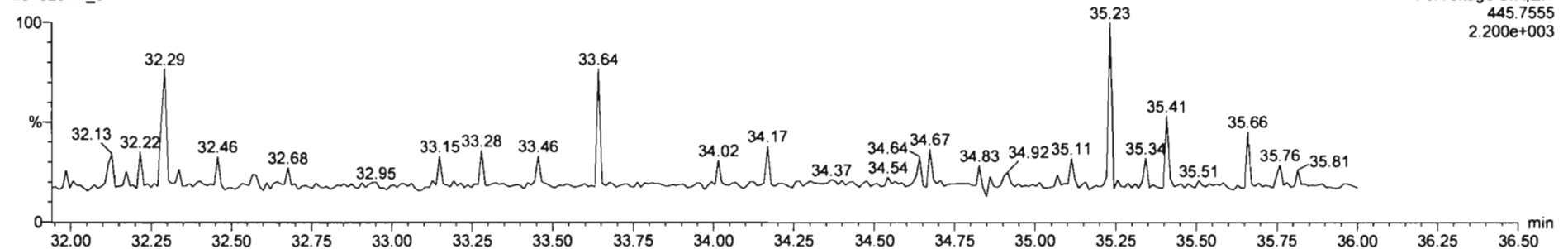


201020R1_3



DPE3

201020R1_3

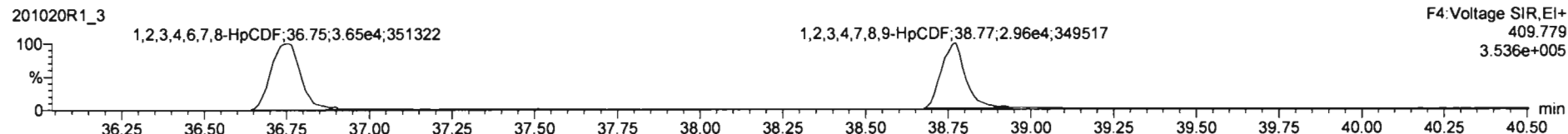
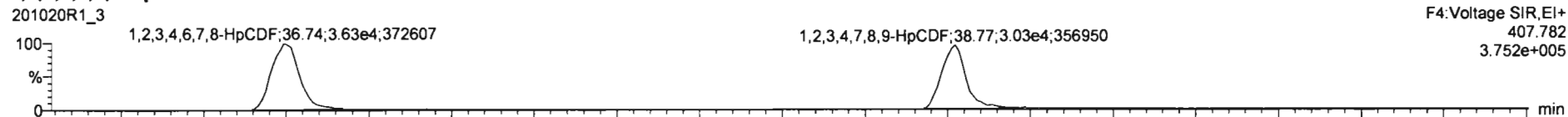


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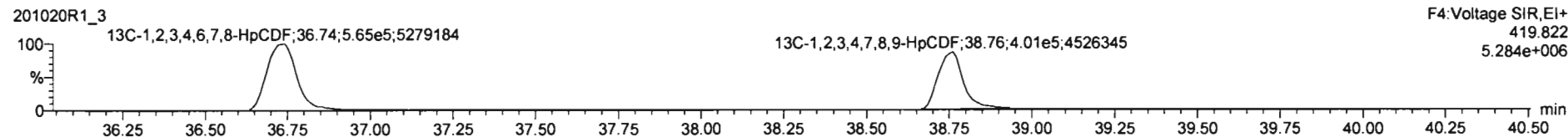
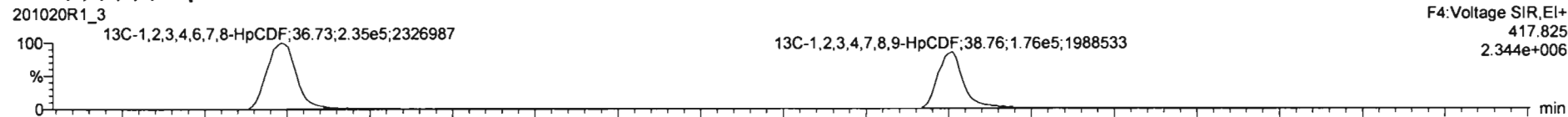
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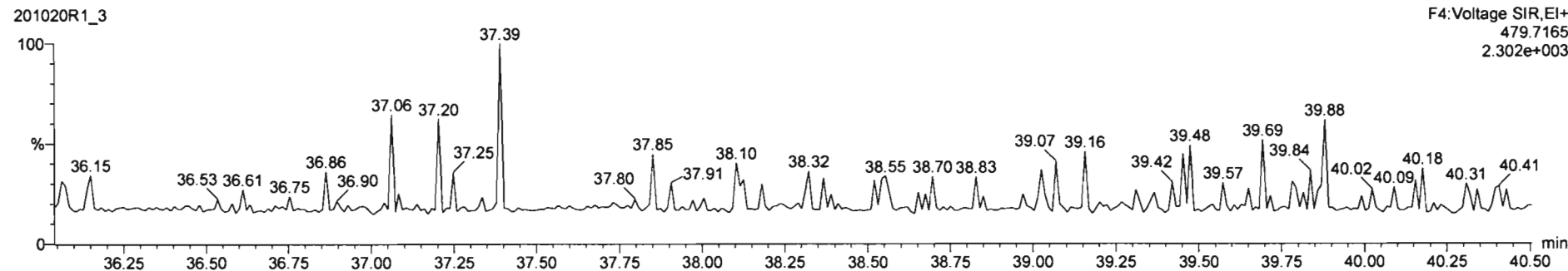
1,2,3,4,6,7,8-HpCDF



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



DPE4



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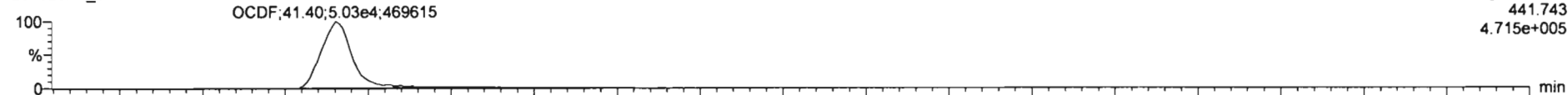
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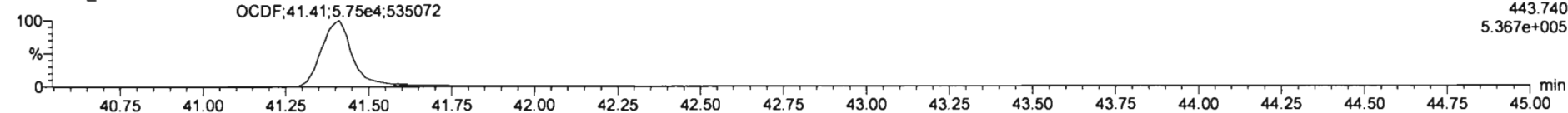
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OCDF

201020R1_3

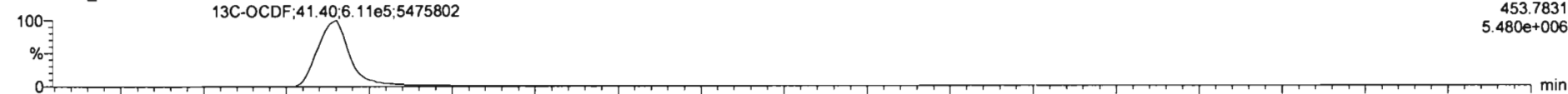


201020R1_3

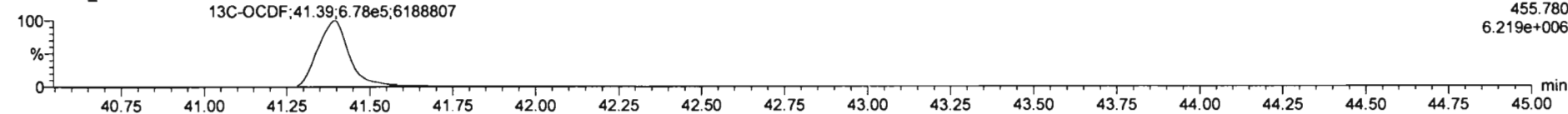


13C-OCDF

201020R1_3

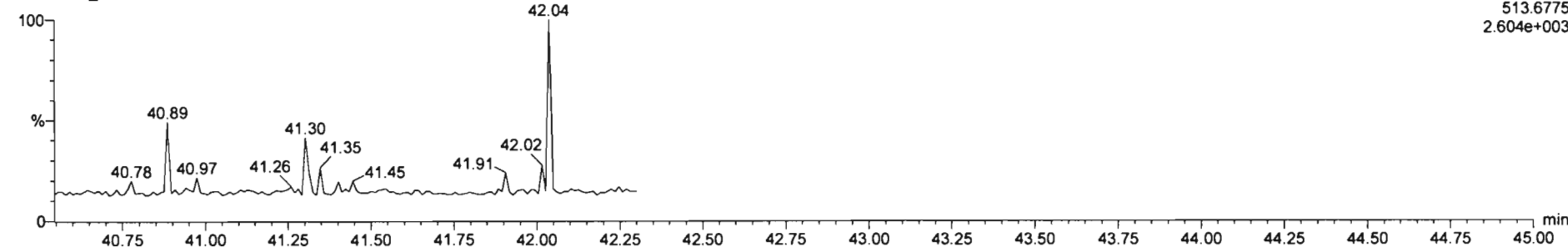


201020R1_3



DPE5

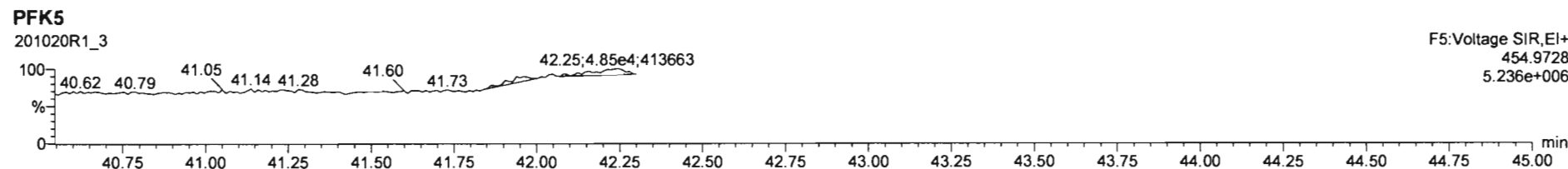
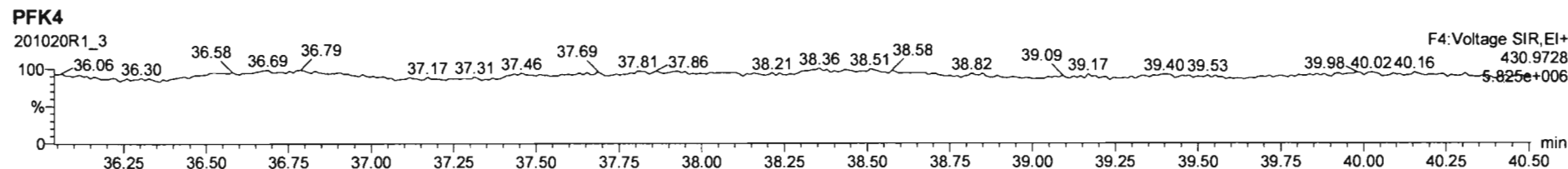
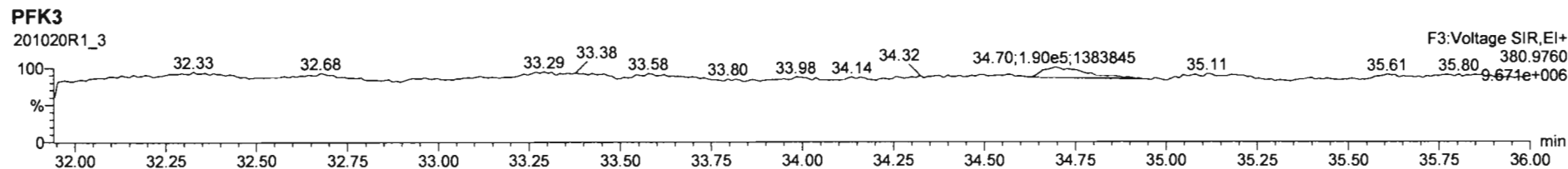
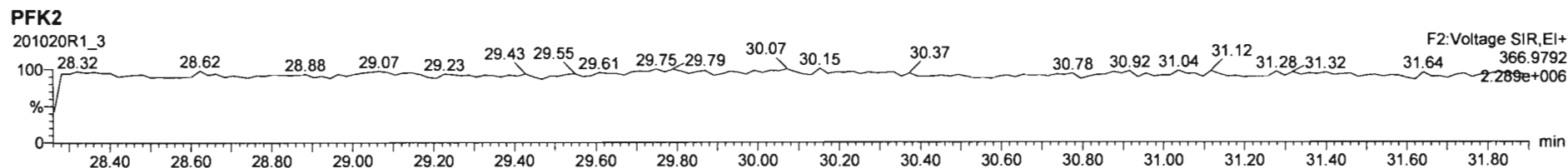
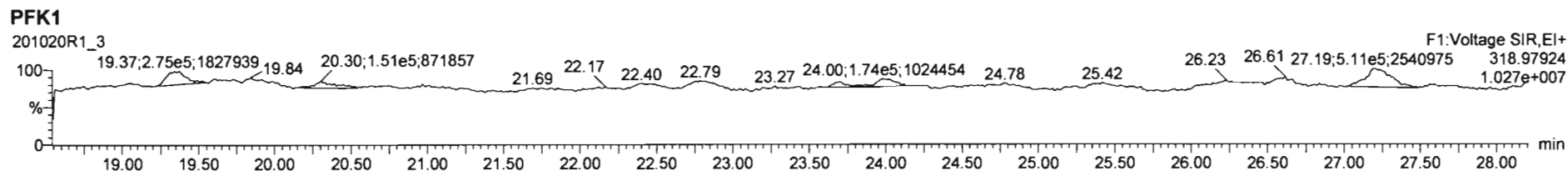
201020R1_3



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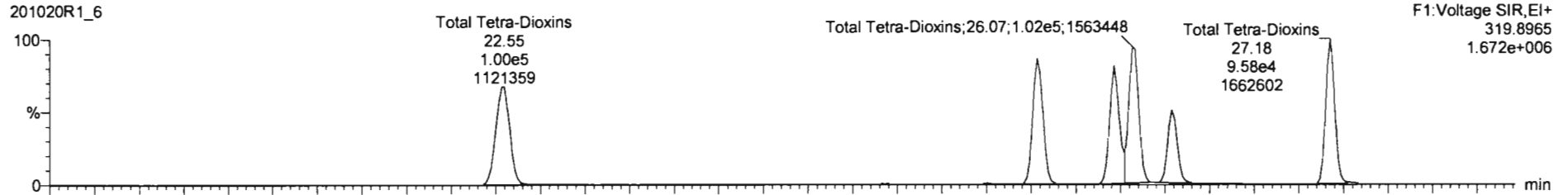
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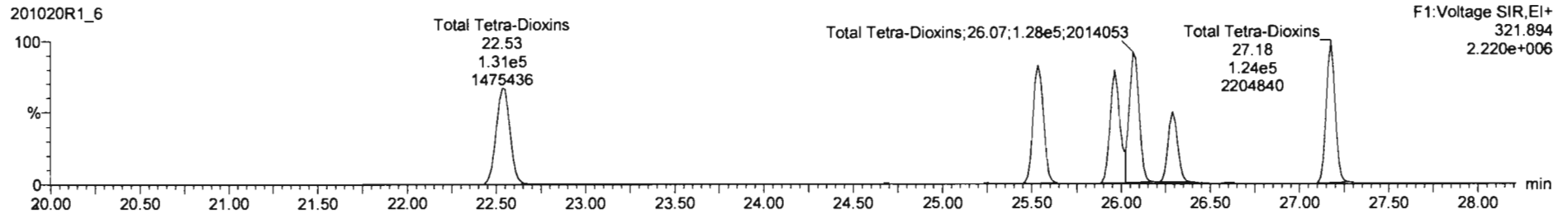
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2,3,7,8-TCDD

201020R1_6

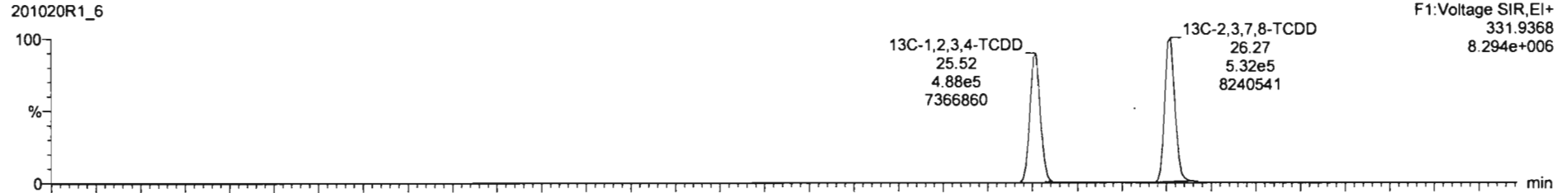


201020R1_6

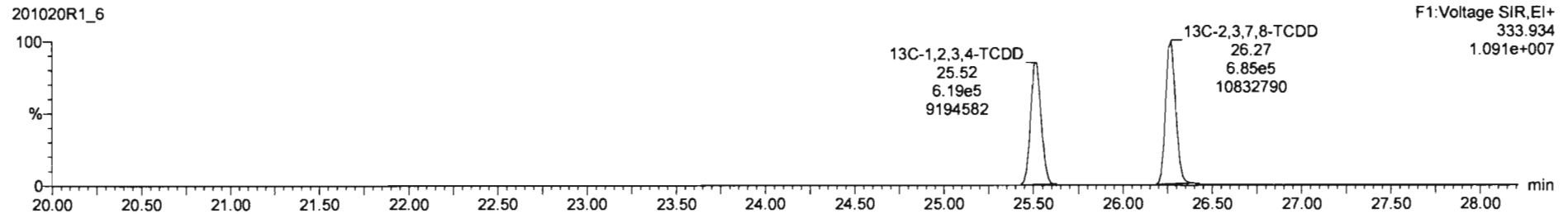


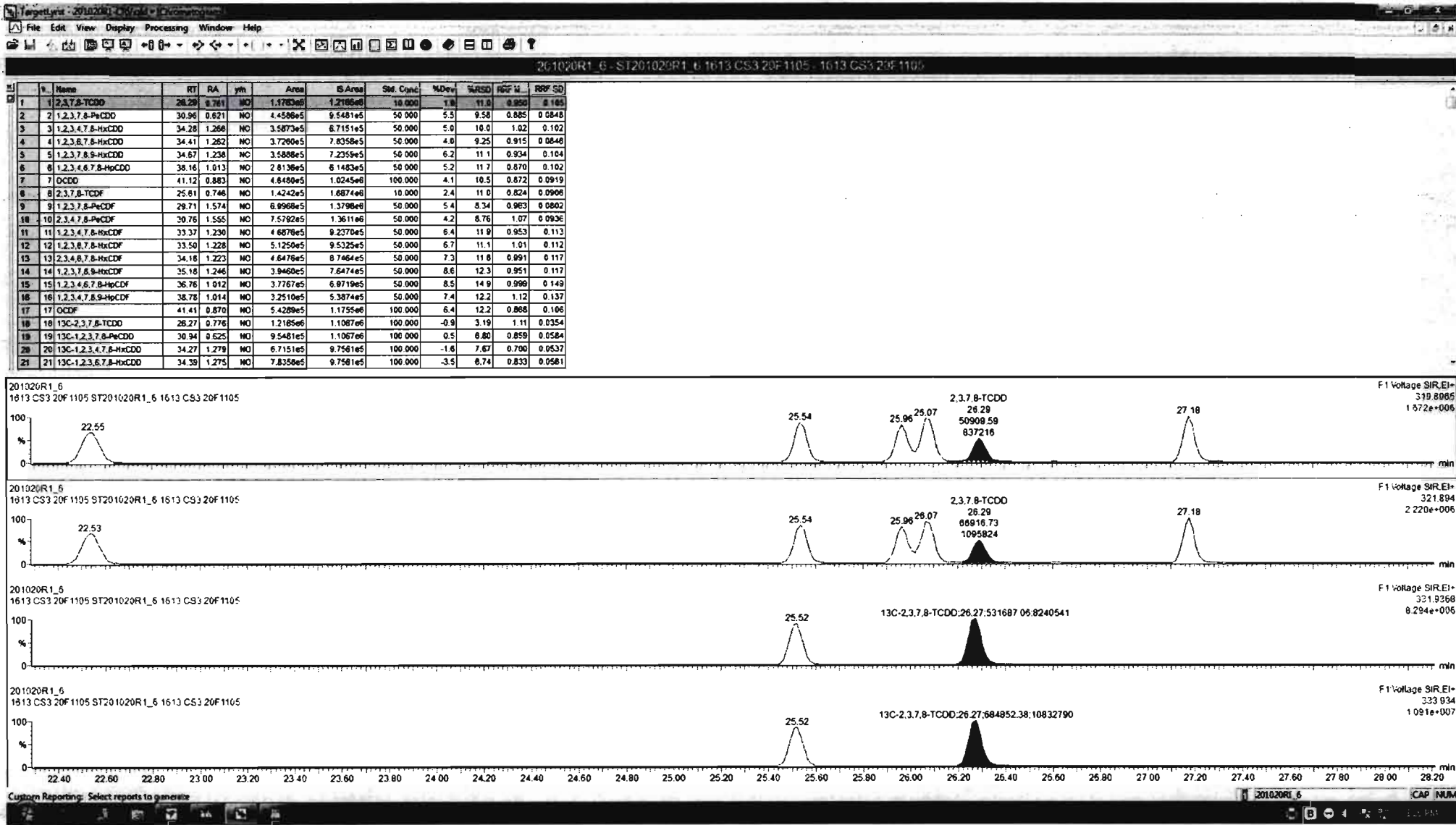
13C-2,3,7,8-TCDD

201020R1_6



201020R1_6





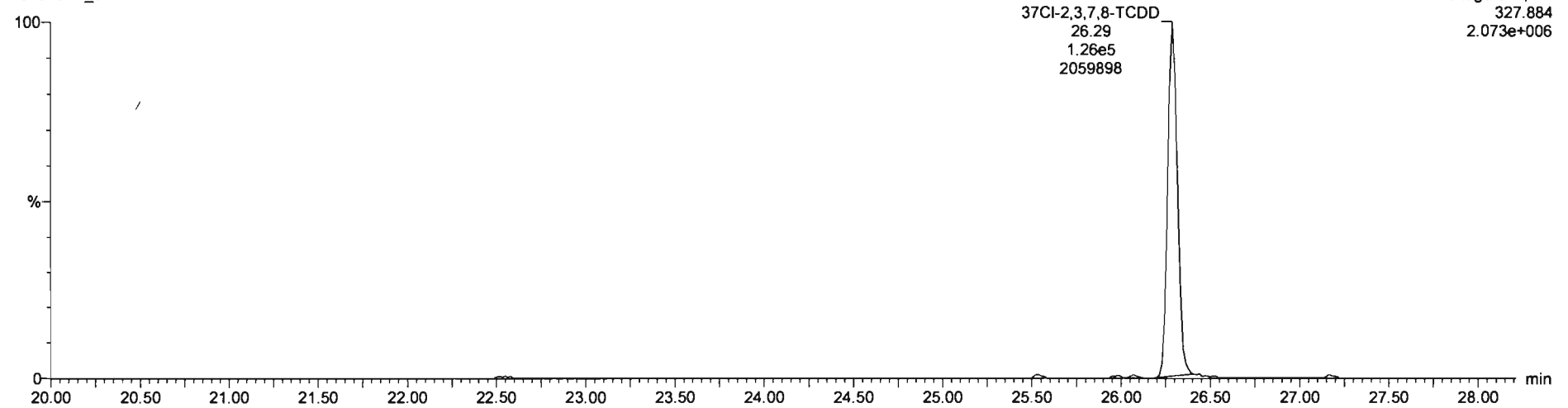
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_6, Date: 20-Oct-2020, Time: 13:01:38, ID: ST201020R1_6 1613 CS3 20F1105, Description: 1613 CS3 20F1105

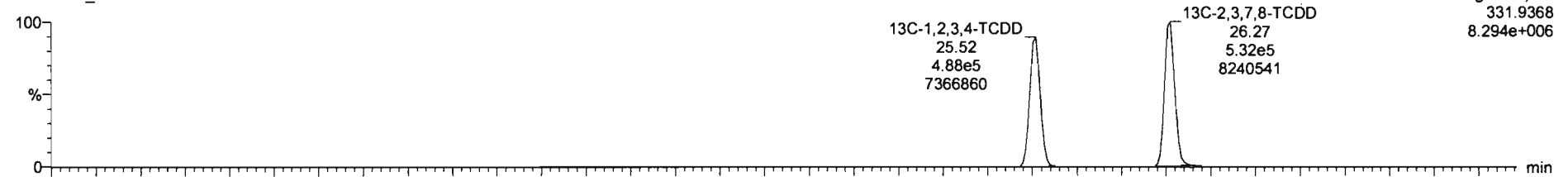
37Cl-2,3,7,8-TCDD

201020R1_6

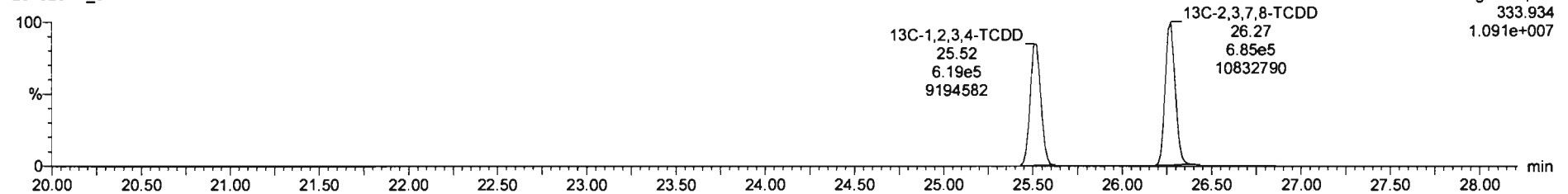


13C-1,2,3,4-TCDD

201020R1_6



201020R1_6



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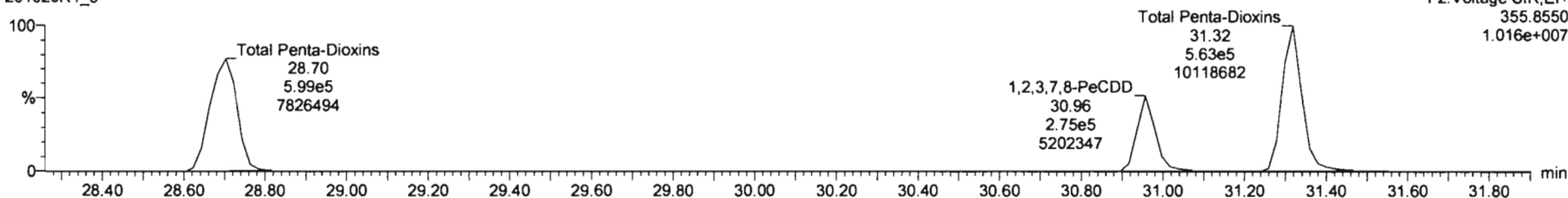
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1,2,3,7,8-PeCDD

201020R1_6

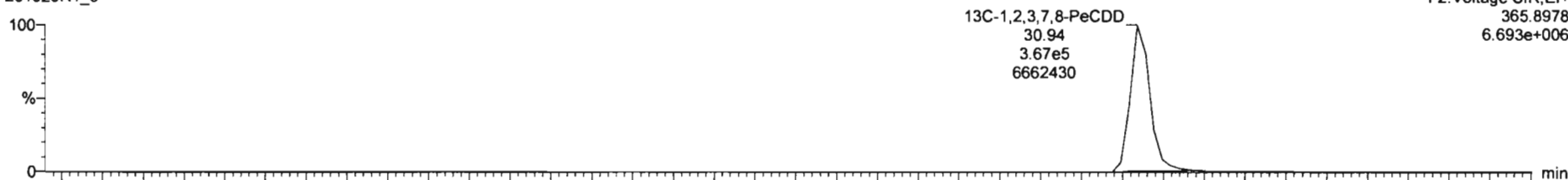


201020R1_6

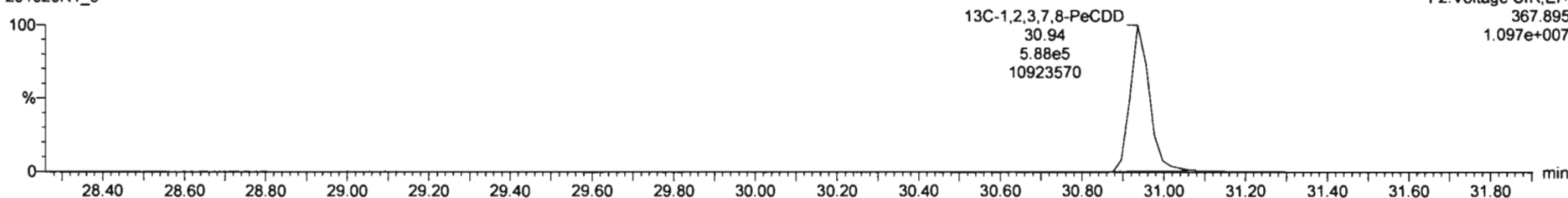


13C-1,2,3,7,8-PeCDD

201020R1_6



201020R1_6



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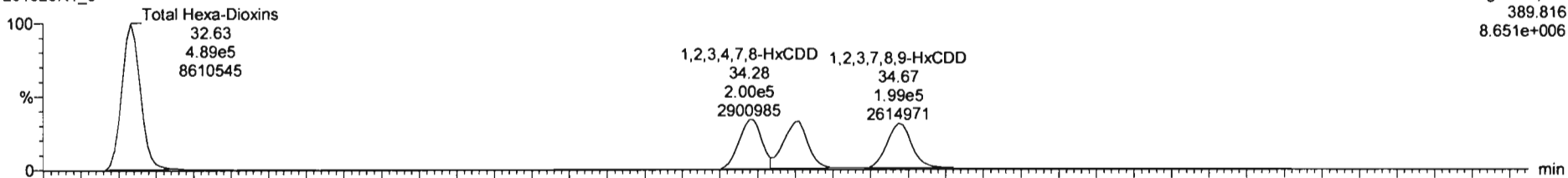
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Name: 201020R1_6, Date: 20-Oct-2020, Time: 13:01:38, ID: ST201020R1_6 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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

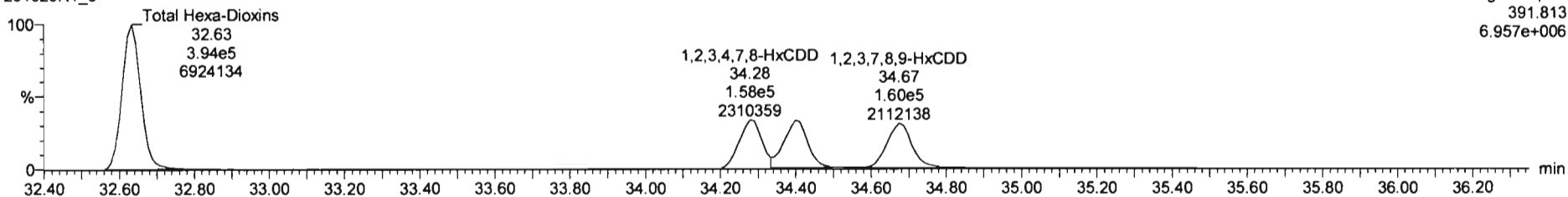
201020R1_6

F3:Voltage SIR,EI+
389.816
8.651e+006



201020R1_6

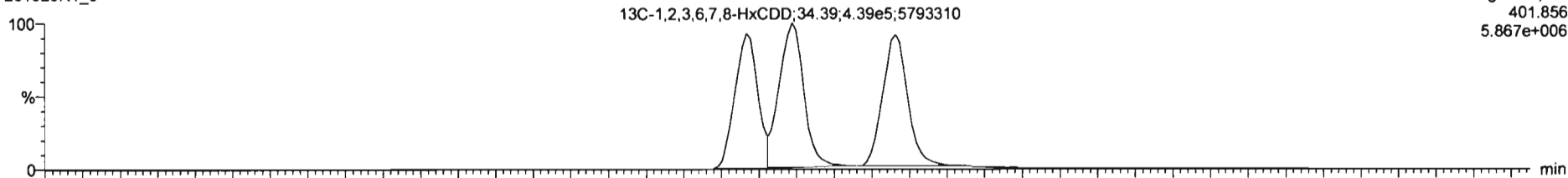
F3:Voltage SIR,EI+
391.813
6.957e+006



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

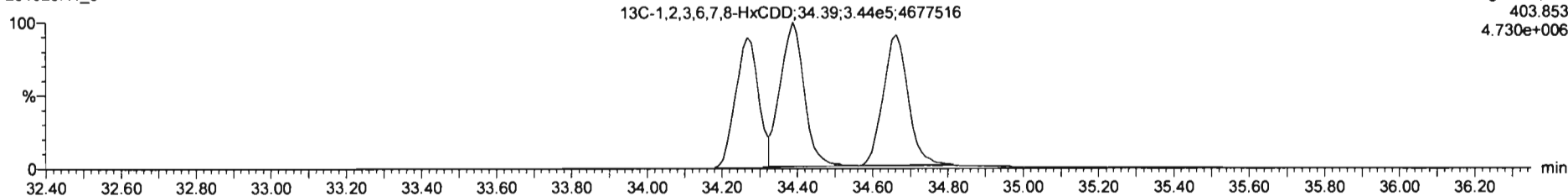
201020R1_6

F3:Voltage SIR,EI+
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5.867e+006



201020R1_6

F3:Voltage SIR,EI+
403.853
4.730e+006



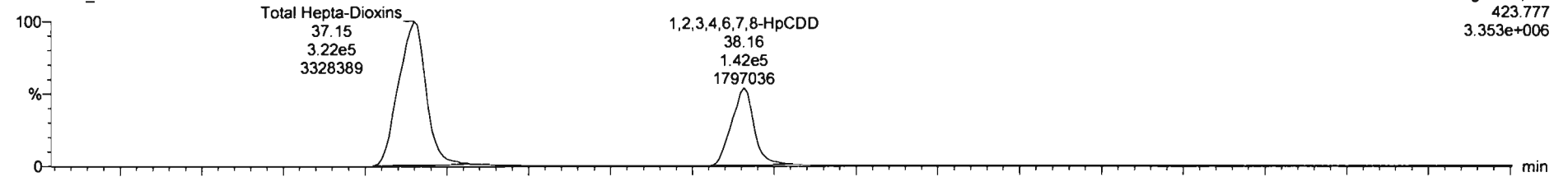
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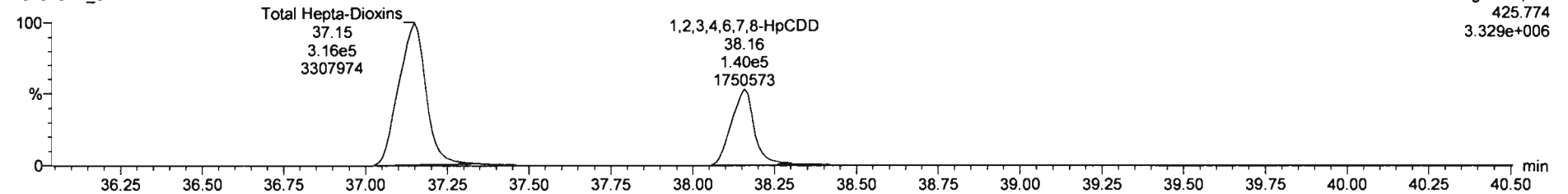
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1,2,3,4,6,7,8-HpCDD

201020R1_6

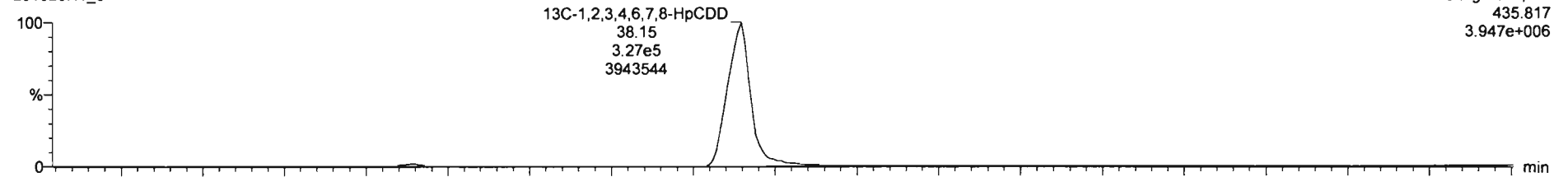


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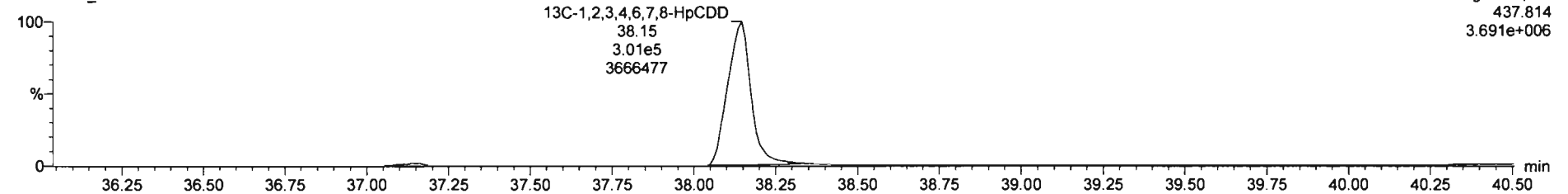


13C-1,2,3,4,6,7,8-HpCDD

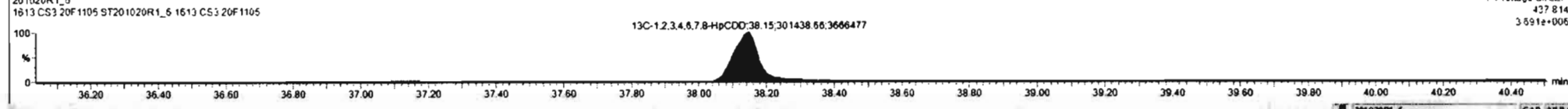
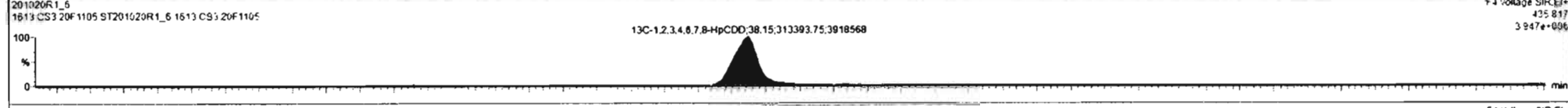
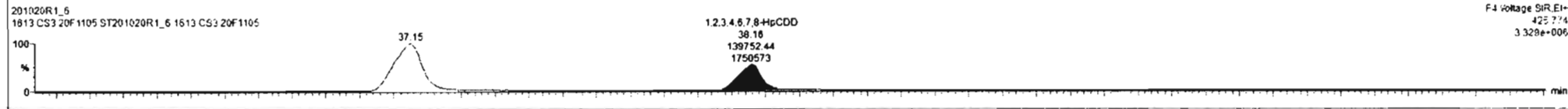
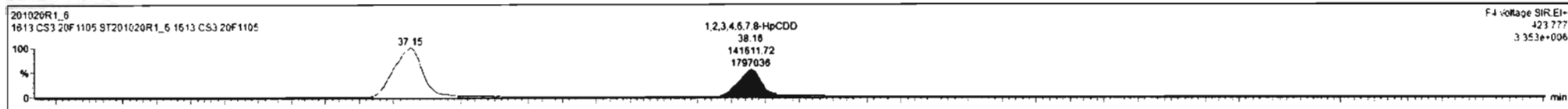
201020R1_6



201020R1_6



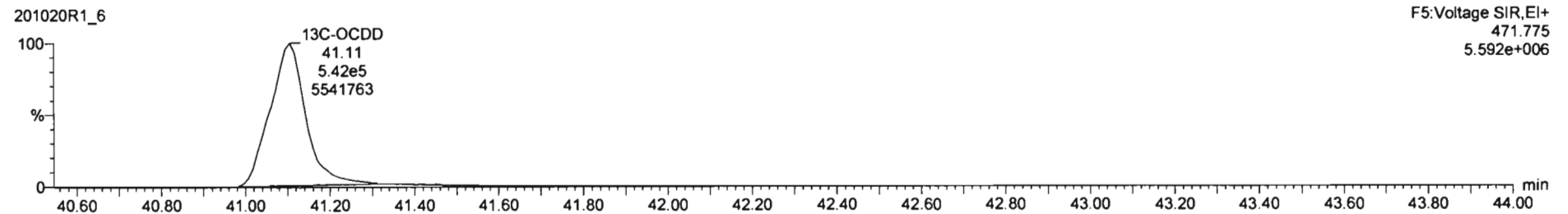
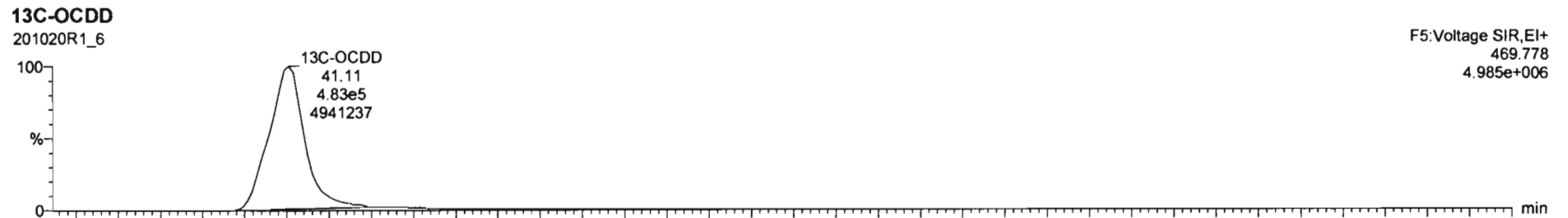
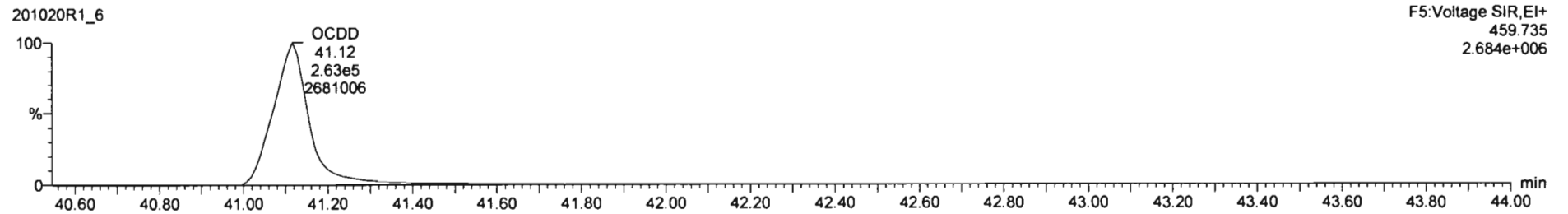
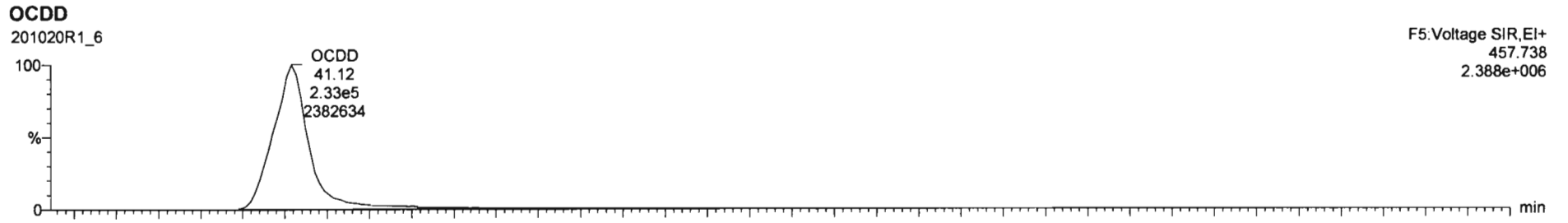
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1	1,2,3,7,8-TCDD	26.29	0.761	NO	1.1783e5	1.2185e6	10.000	1.9	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.621	NO	4.4586e5	9.5481e5	50.000	5.5	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.266	NO	3.5873e5	6.7151e5	50.000	5.0	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.41	1.262	NO	3.7260e5	7.8358e5	50.000	4.0	9.25	0.915	0.0848
5	1,2,3,7,8,9-HxCDD	34.67	1.238	NO	3.5888e5	7.2359e5	50.000	6.2	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.16	1.613	NO	2.8136e5	6.1853e5	50.000	5.2	11.7	0.878	0.182
7	OCDD	41.12	0.883	NO	4.8480e5	1.0245e6	100.000	4.1	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.746	NO	1.4242e5	1.6874e6	10.000	2.4	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.71	1.574	NO	8.9598e5	1.3798e6	50.000	5.4	8.34	0.963	0.0802
10	2,3,4,7,8-PeCDF	30.76	1.555	NO	7.5782e5	1.3611e6	50.000	4.2	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.230	NO	4.6878e5	9.2370e5	50.000	6.4	11.9	0.853	0.112
12	1,2,3,6,7,8-HxCDF	33.50	1.228	NO	5.1250e5	9.5325e5	50.000	6.7	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.18	1.223	NO	4.6476e5	8.7464e5	50.000	7.3	11.6	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.246	NO	3.9460e5	7.6474e5	50.000	8.6	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.76	1.012	NO	3.7767e5	6.9719e5	50.000	8.5	14.9	0.908	0.149
16	1,2,3,4,7,8,9-HpCDF	38.78	1.014	NO	3.2510e5	5.3874e5	50.000	7.4	12.2	1.12	0.137
17	OCDF	41.41	0.870	NO	5.4289e5	1.1755e6	100.000	6.4	12.2	0.968	0.106
18	13C-2,3,7,8-TCDD	26.27	0.776	NO	1.2185e6	1.1067e6	100.000	-0.9	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.94	0.625	NO	9.5481e5	1.1067e6	100.000	0.5	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.279	NO	6.7151e5	9.7561e5	100.000	-1.6	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.39	1.275	NO	7.8358e5	9.7561e5	100.000	-3.5	8.74	0.833	0.0561

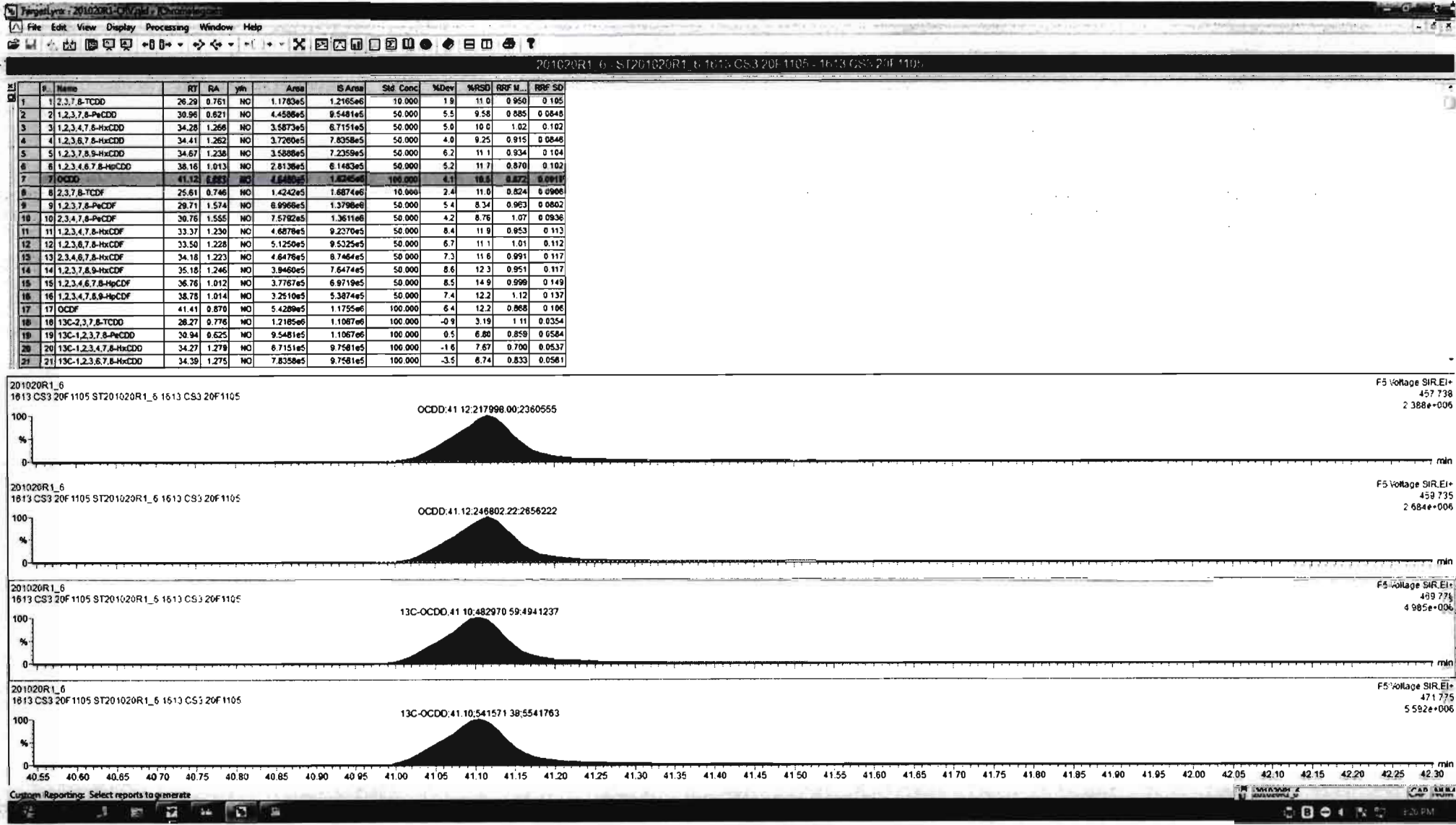


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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_6, Date: 20-Oct-2020, Time: 13:01:38, ID: ST201020R1_6 1613 CS3 20F1105, Description: 1613 CS3 20F1105





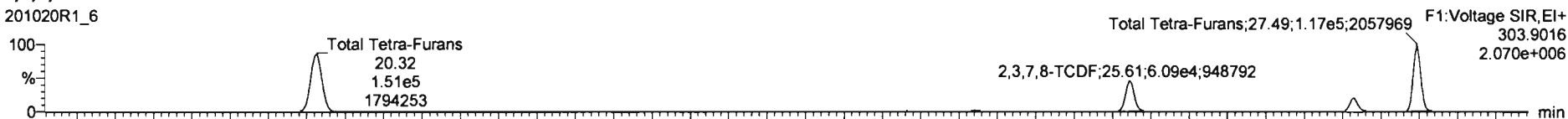
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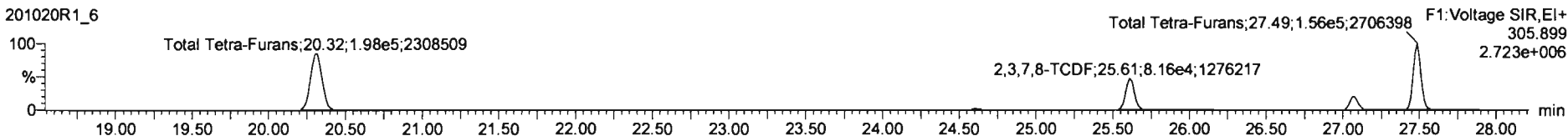
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2,3,7,8-TCDF

201020R1_6

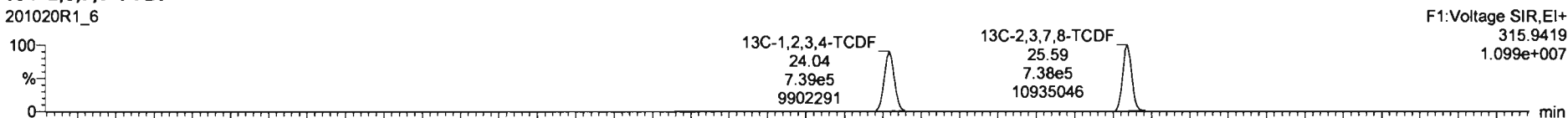


201020R1_6

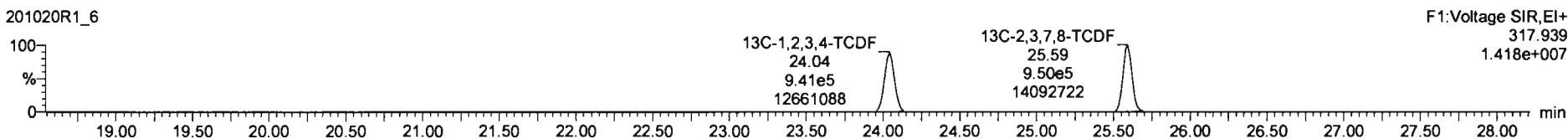


13C-2,3,7,8-TCDF

201020R1_6

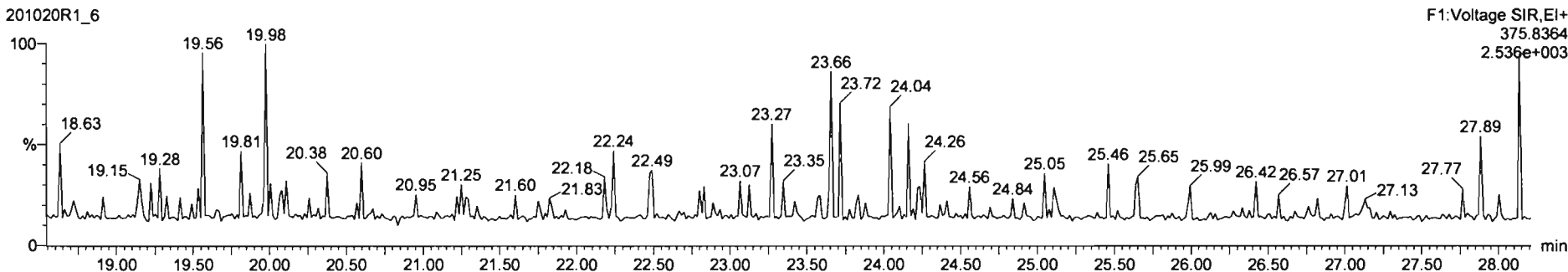


201020R1_6



DPE1

201020R1_6



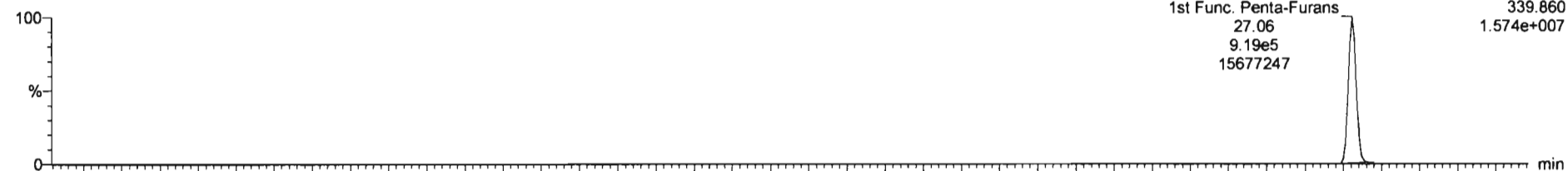
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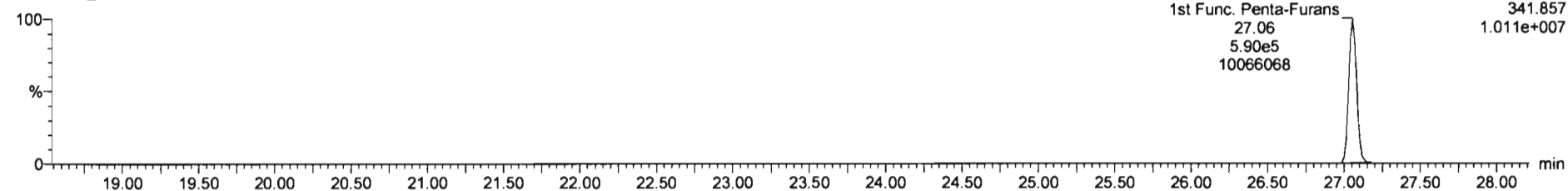
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1st Func. Penta-Furans

201020R1_6

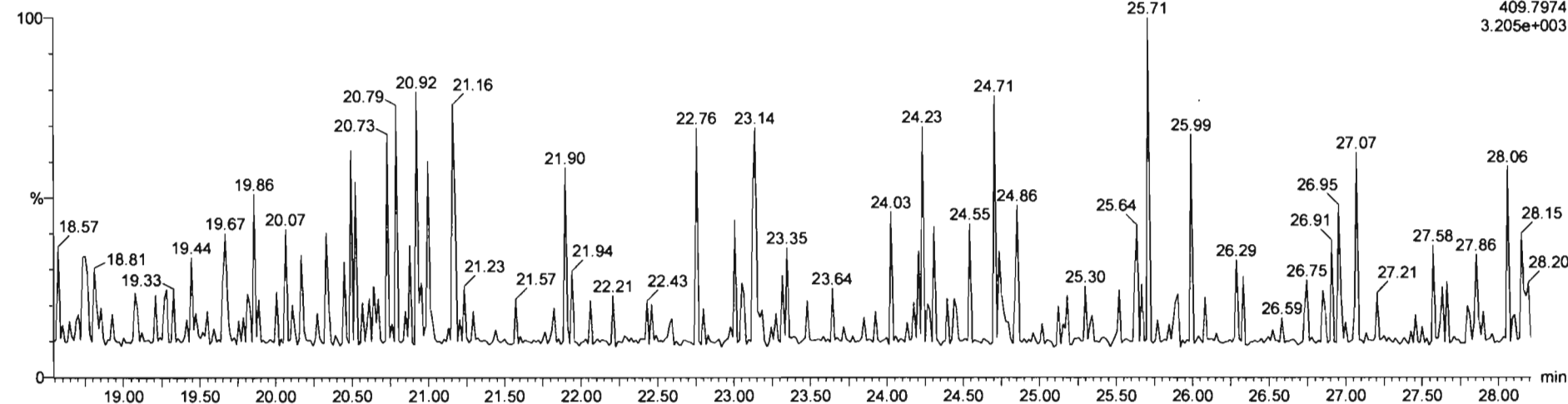


201020R1_6



DPE6

201020R1_6



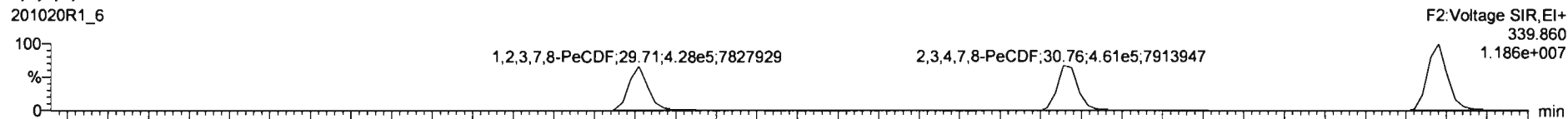
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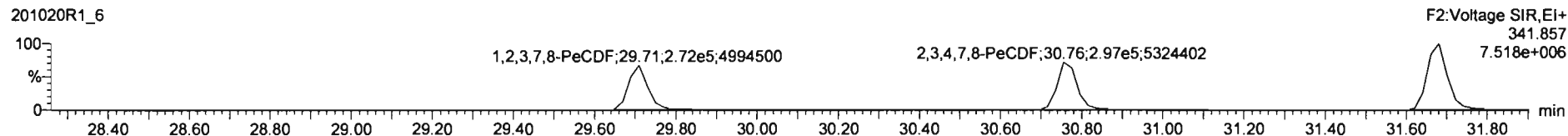
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1,2,3,7,8-PeCDF

201020R1_6

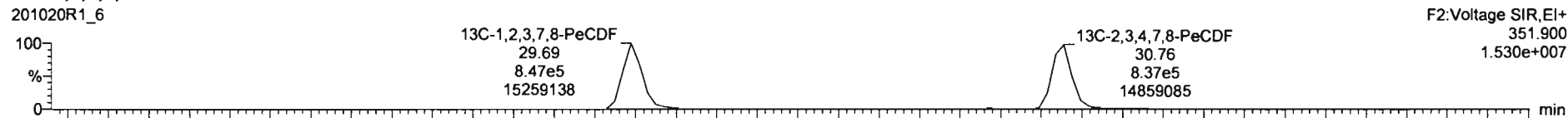


201020R1_6

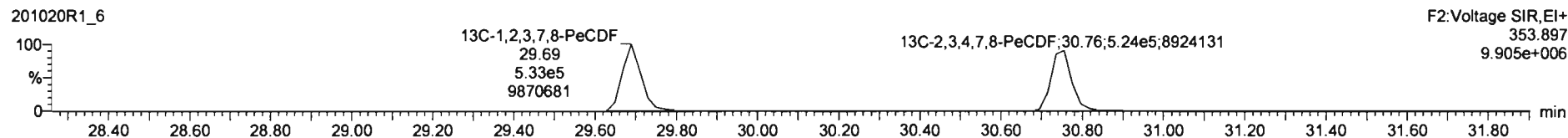


13C-1,2,3,7,8-PeCDF

201020R1_6

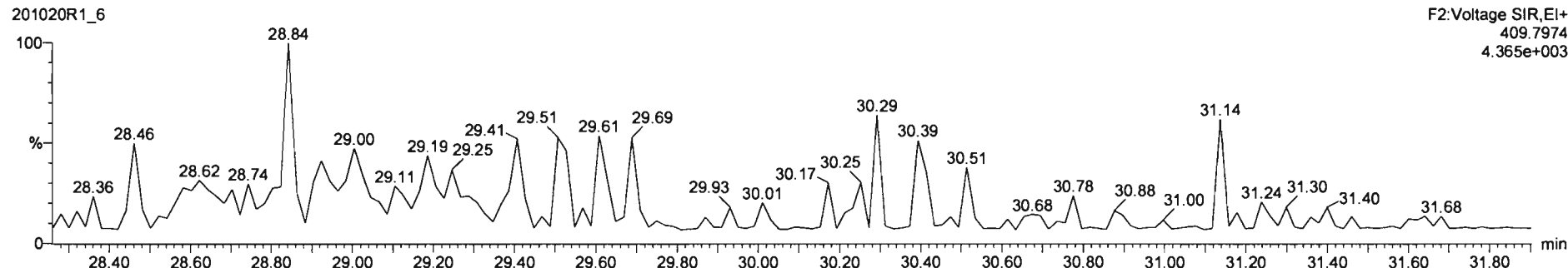


201020R1_6



DPE2

201020R1_6

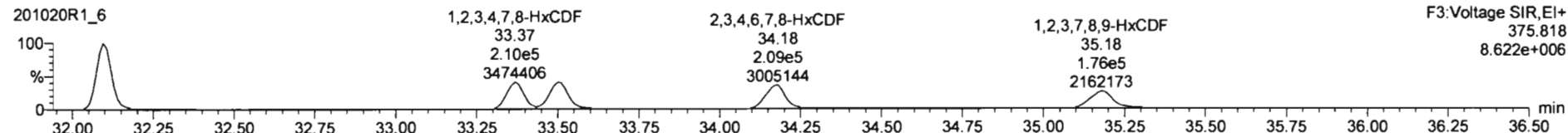
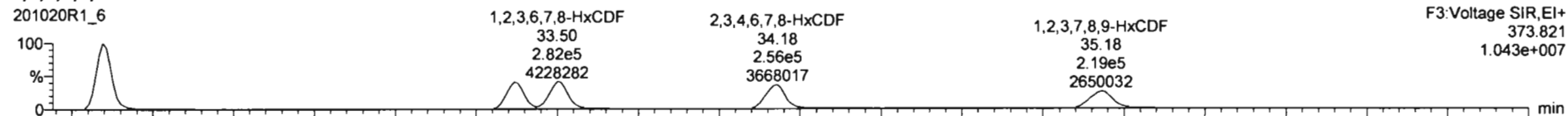


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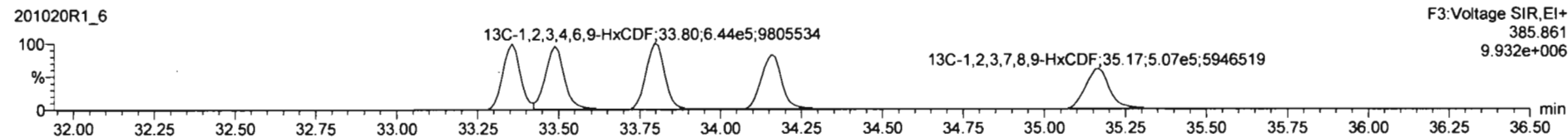
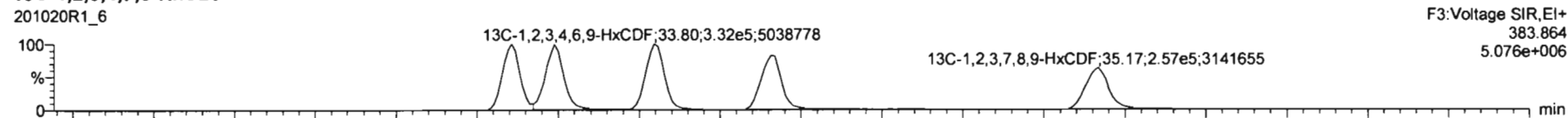
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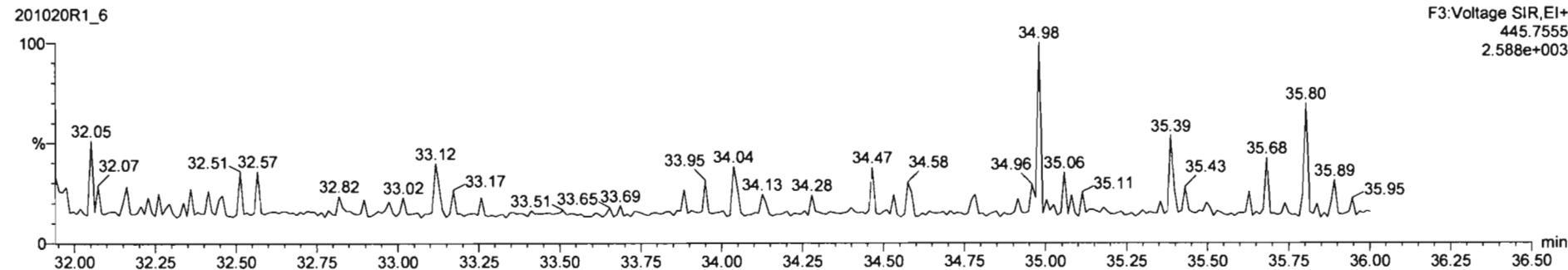
1,2,3,4,7,8-HxCDF



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



DPE3

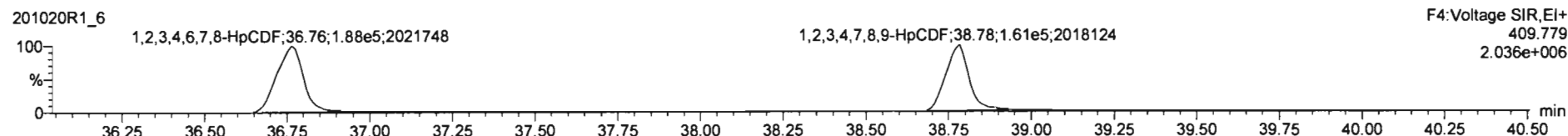
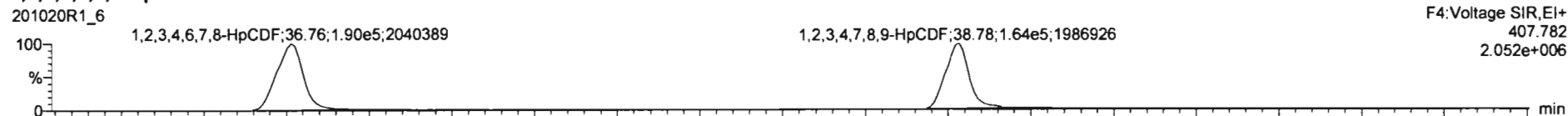


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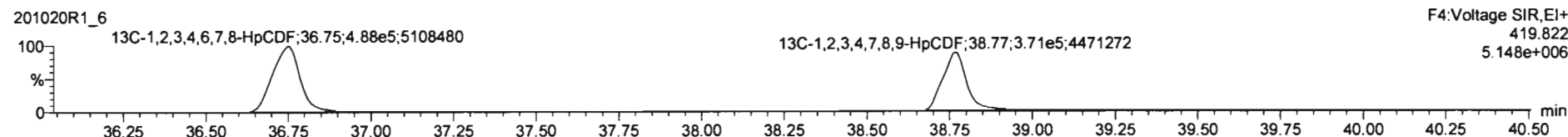
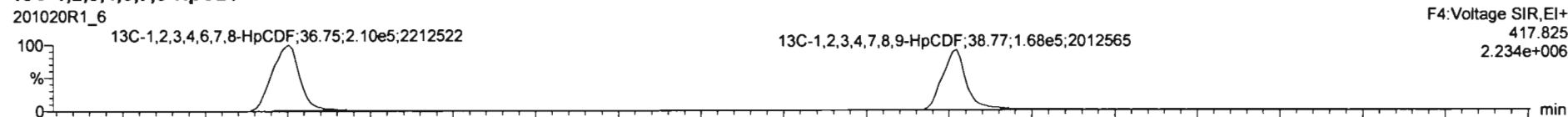
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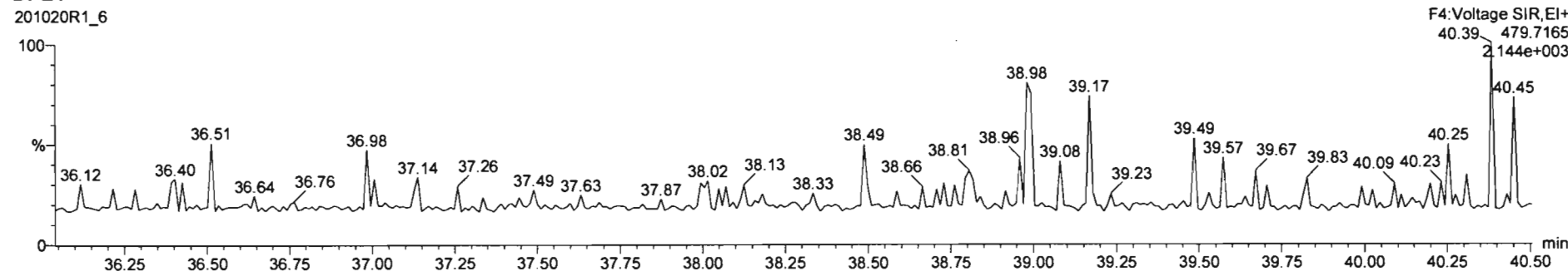
1,2,3,4,6,7,8-HpCDF



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



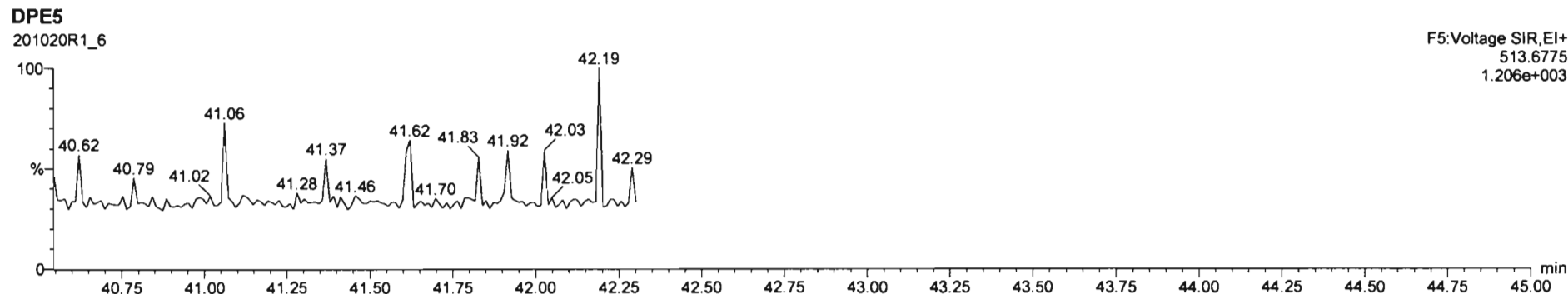
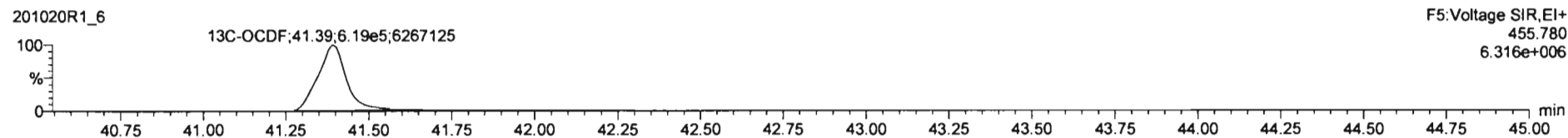
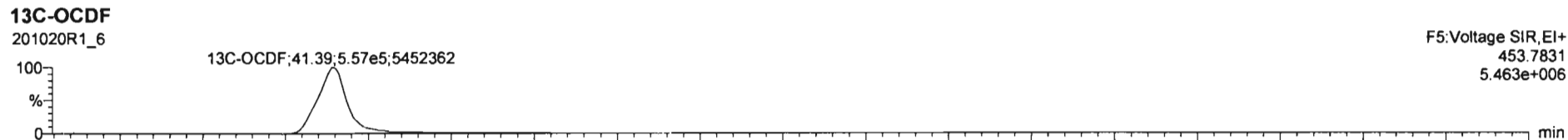
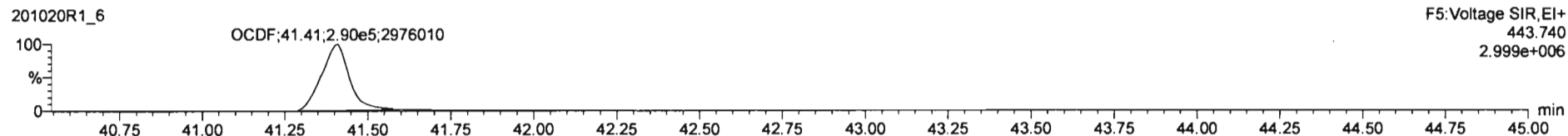
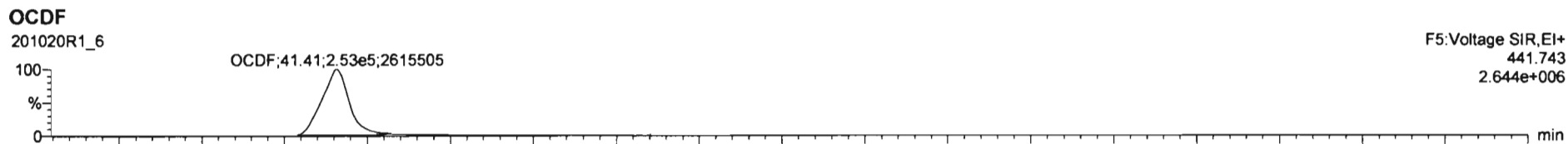
DPE4



Dataset: Untitled

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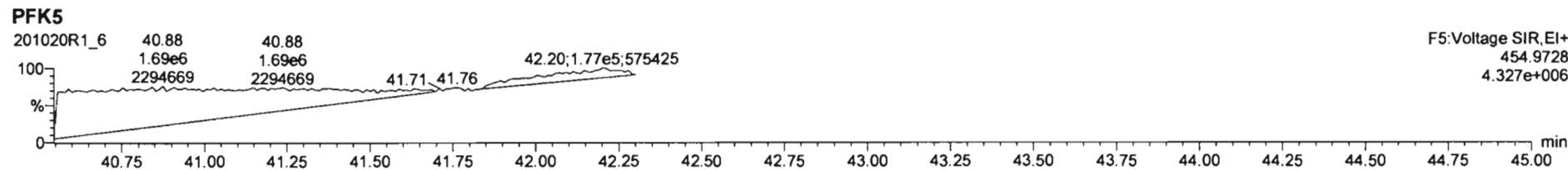
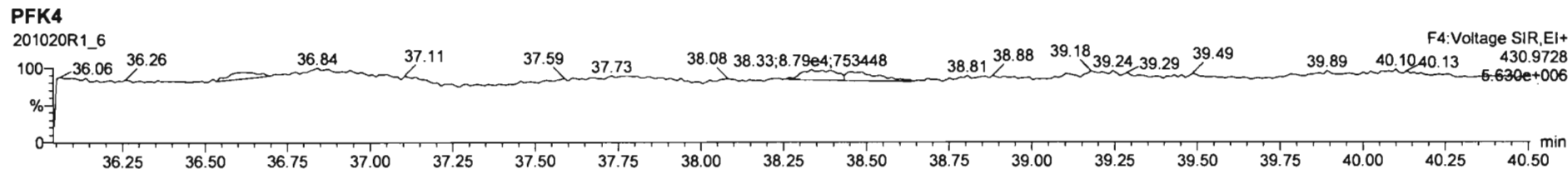
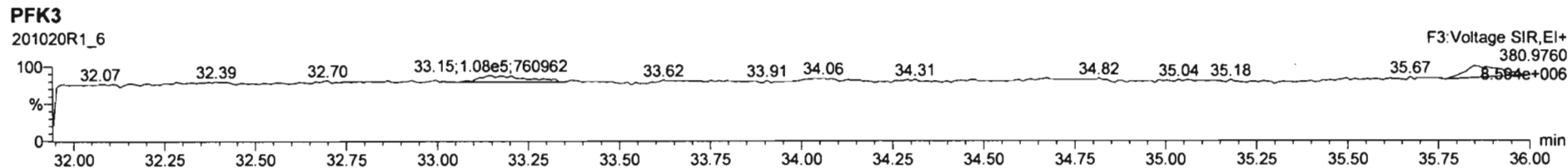
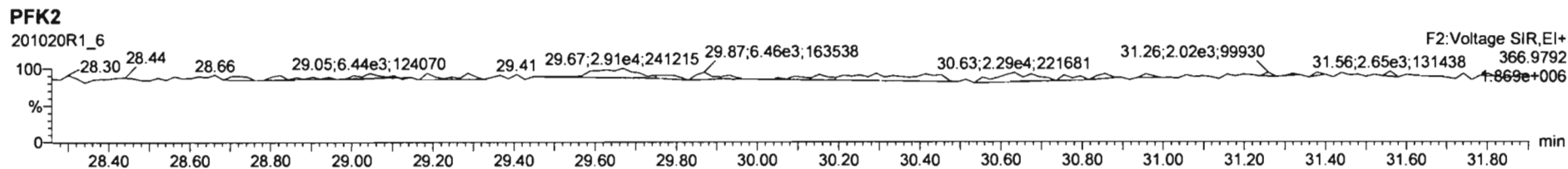
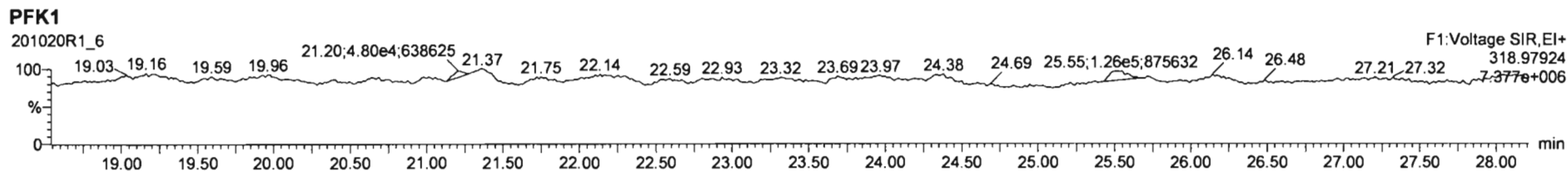
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Dataset: Untitled

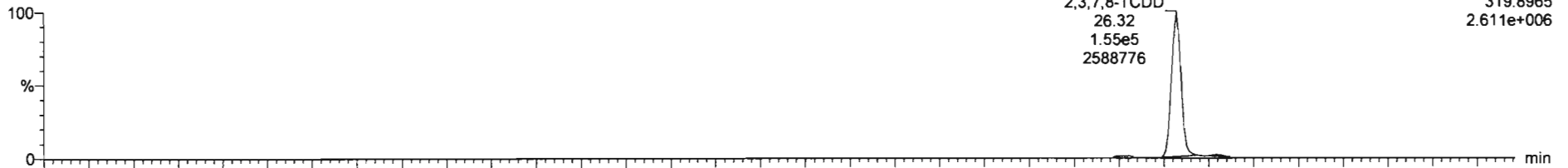
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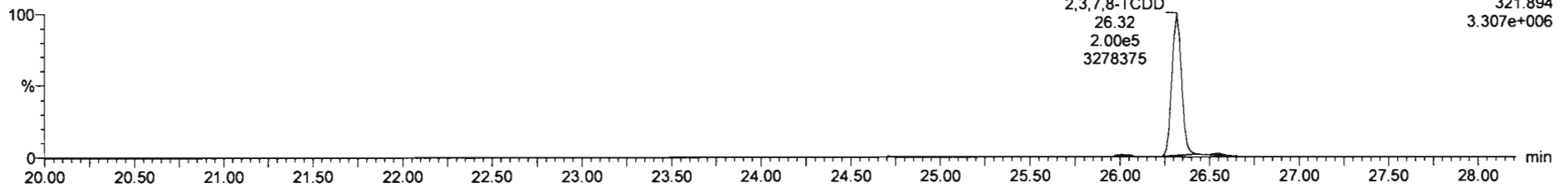
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2,3,7,8-TCDD

201020R1_4

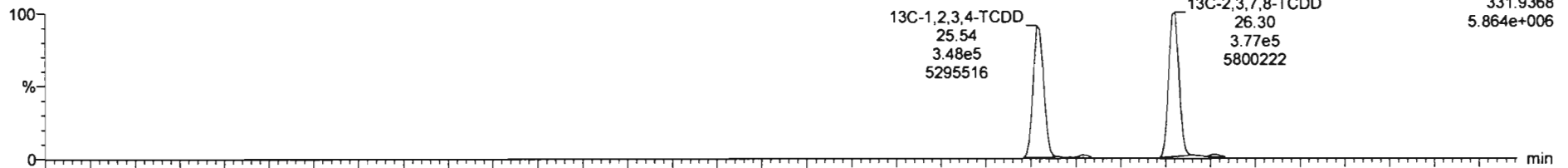


201020R1_4

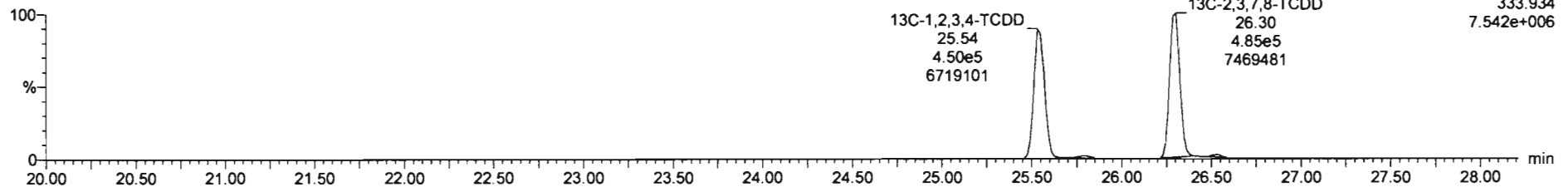


13C-2,3,7,8-TCDD

201020R1_4



201020R1_4



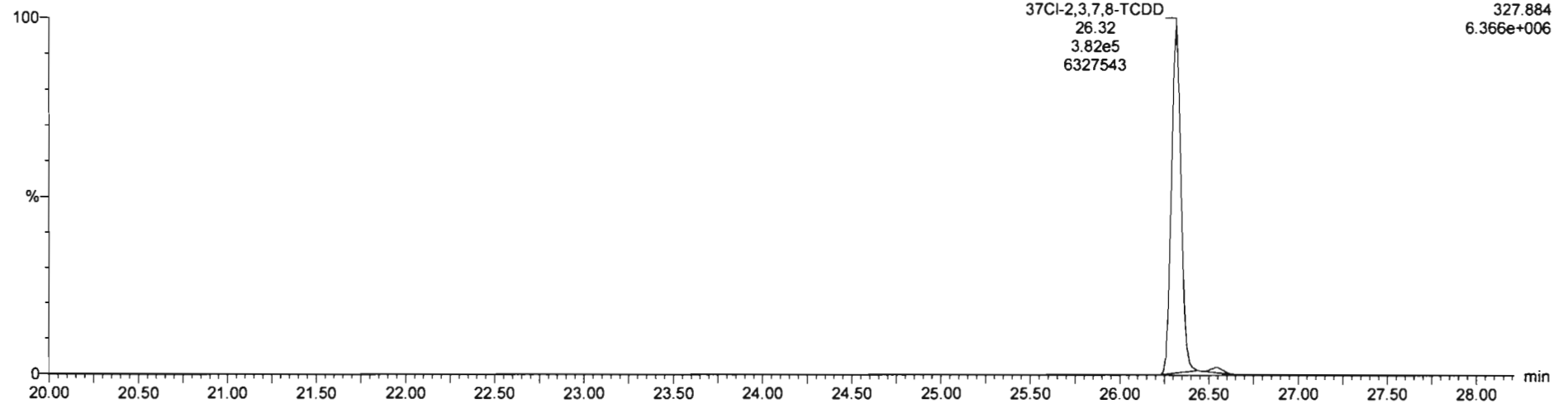
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_4; Date: 20-Oct-2020, Time: 11:32:31, ID: ST201020R1_4 1613 CS4 20F1106, Description: 1613 CS4 20F1106

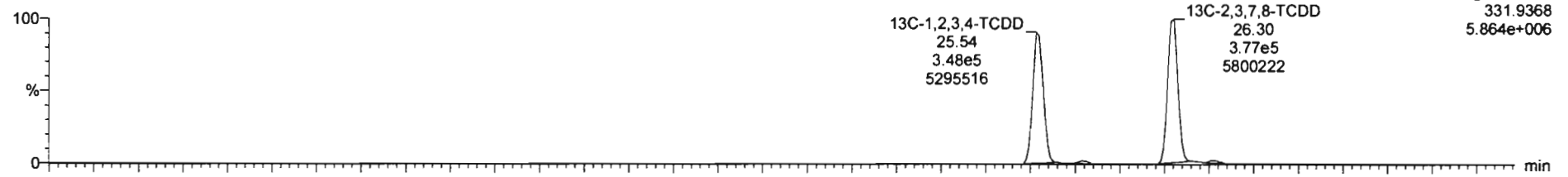
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201020R1_4

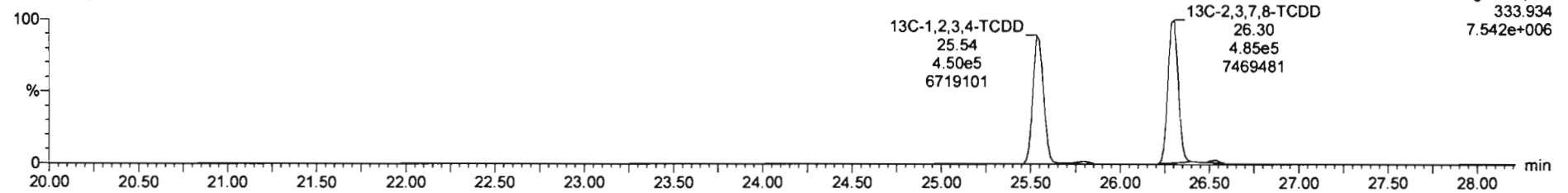


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201020R1_4



201020R1_4



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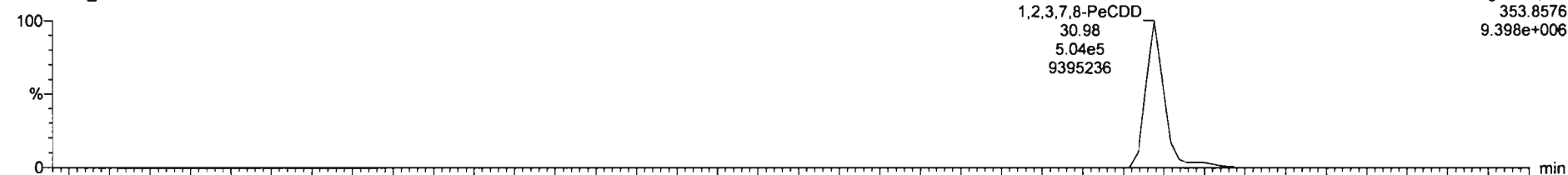
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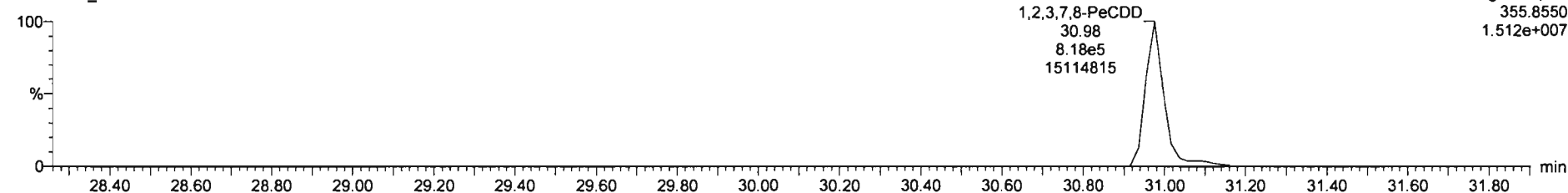
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1,2,3,7,8-PeCDD

201020R1_4



201020R1_4

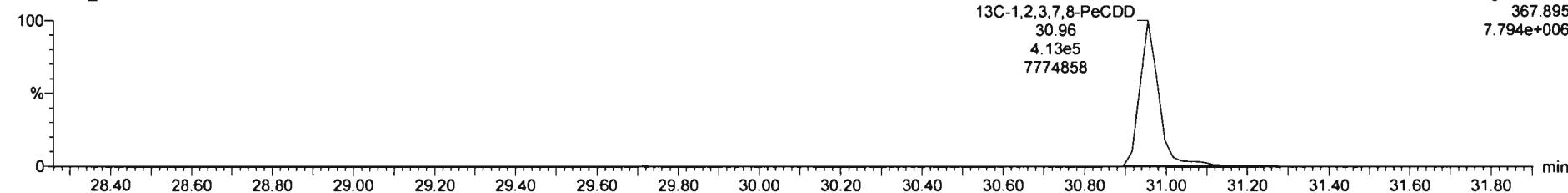


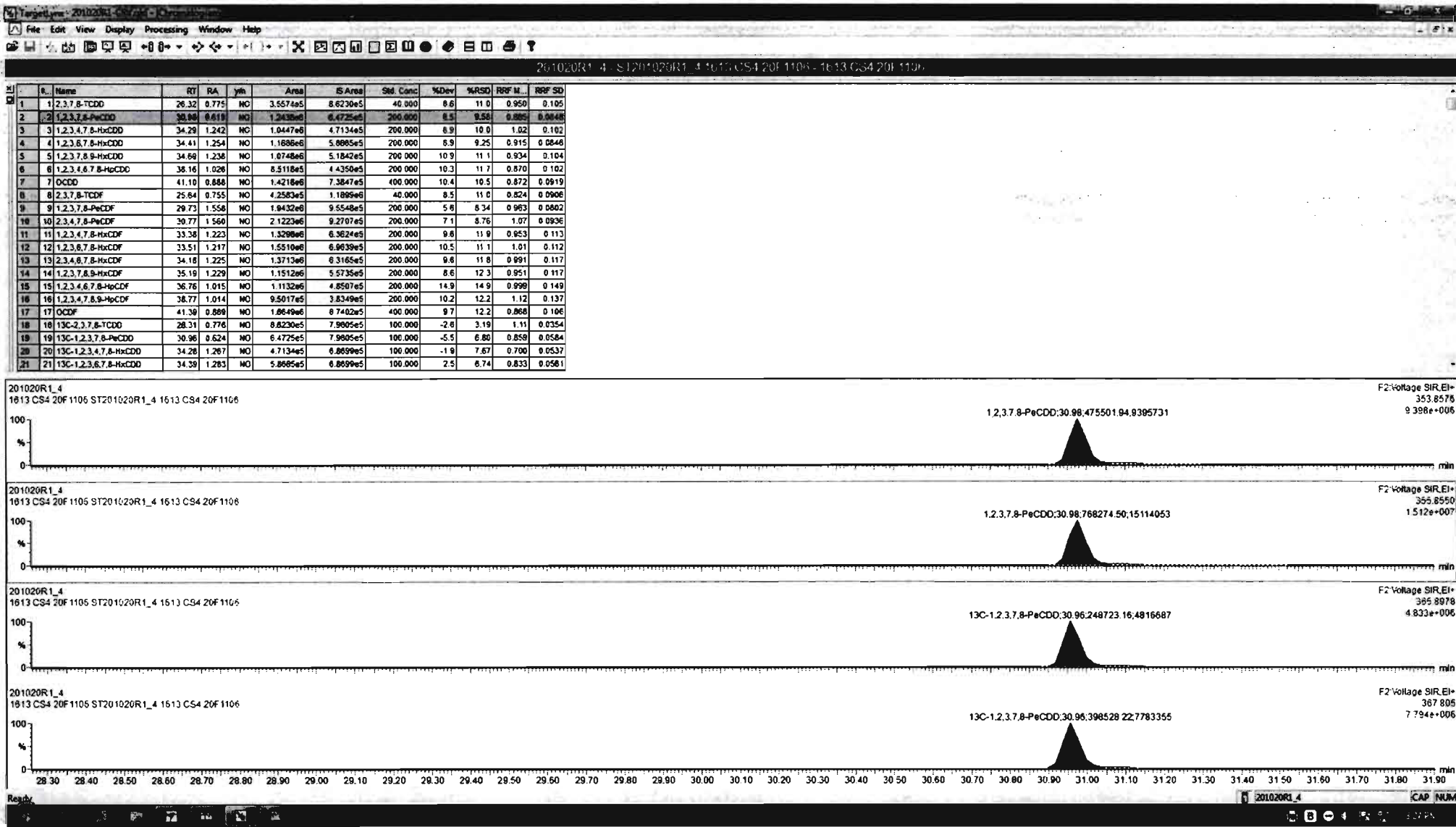
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201020R1_4



201020R1_4





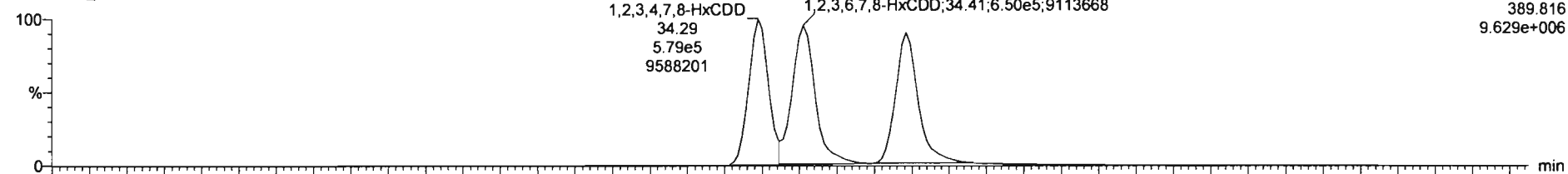
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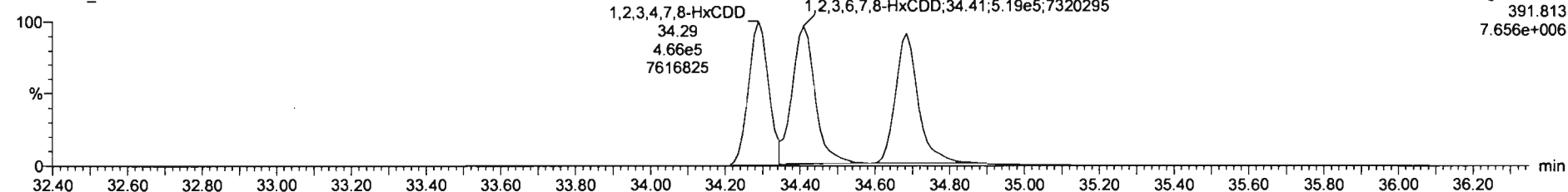
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1,2,3,4,7,8-HxCDD

201020R1_4

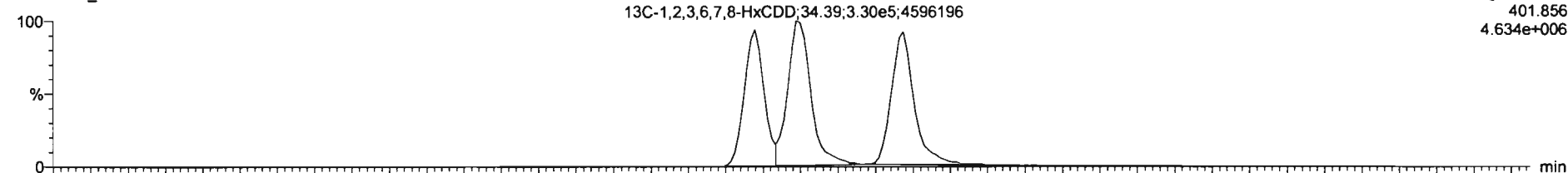


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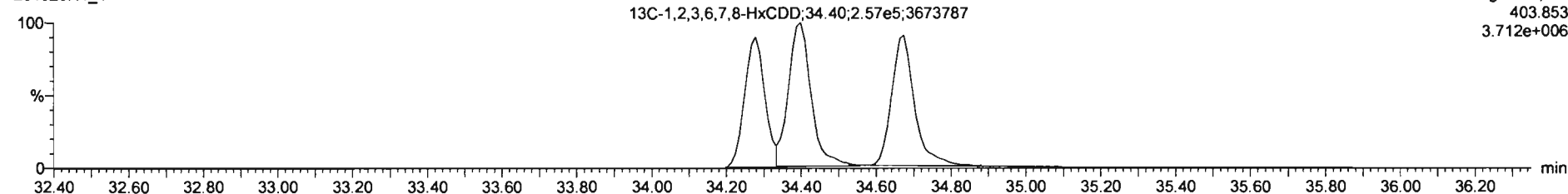


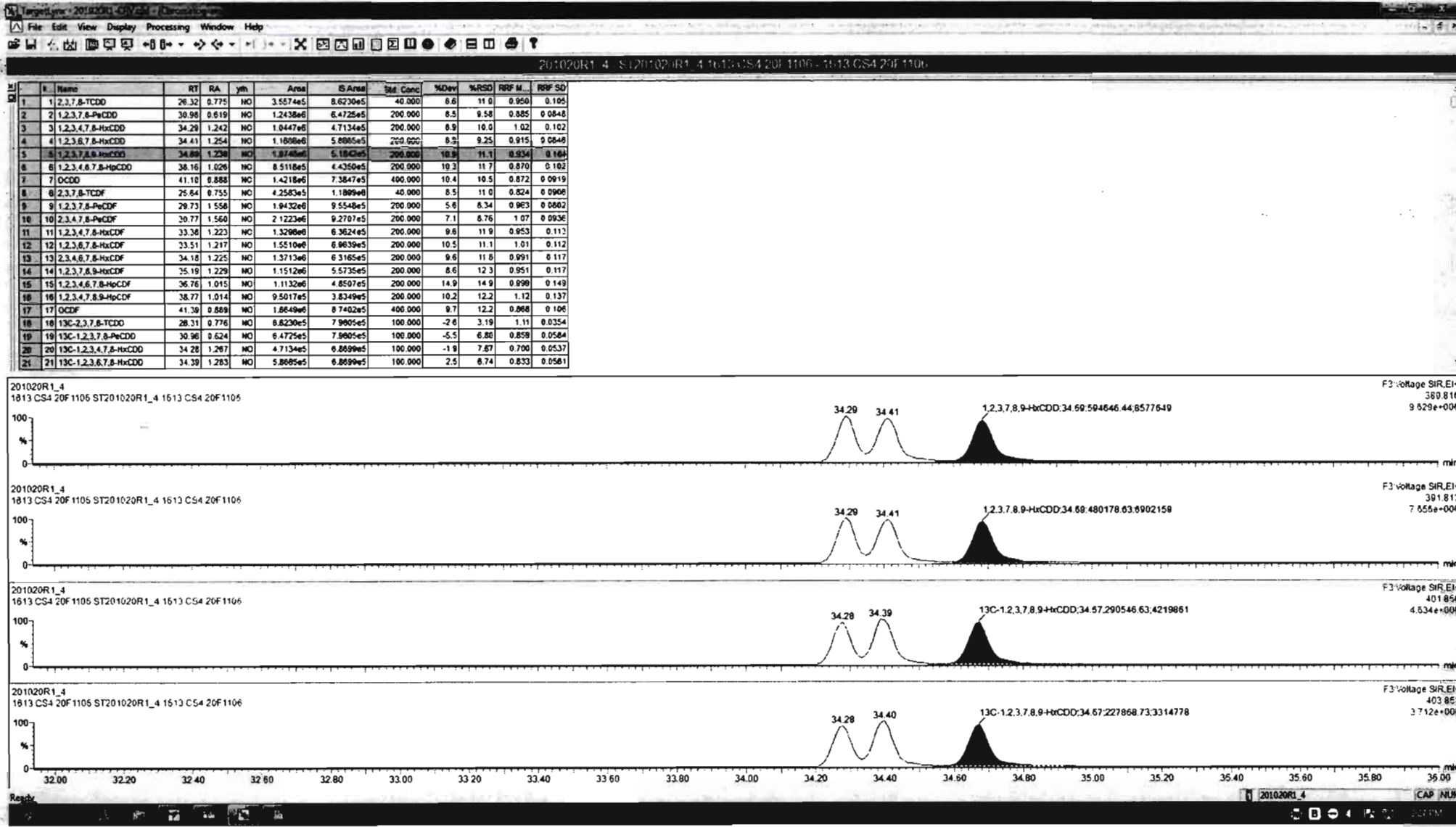
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201020R1_4



201020R1_4





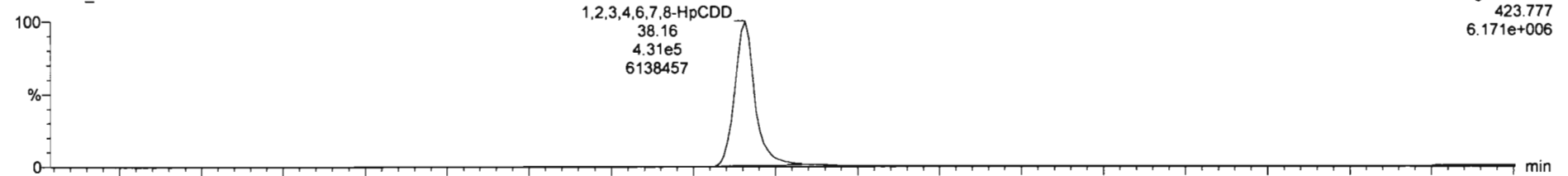
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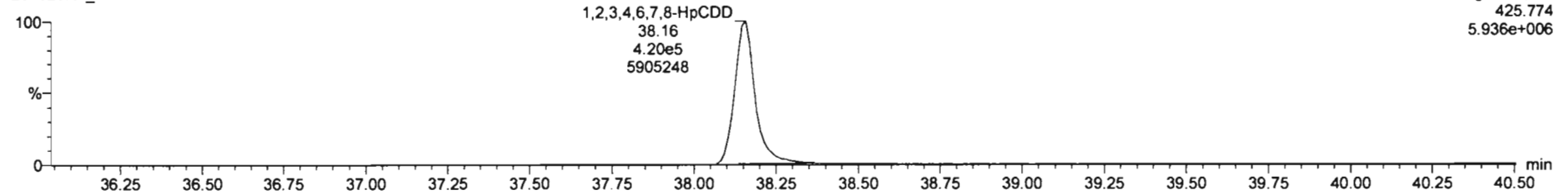
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1,2,3,4,6,7,8-HpCDD

201020R1_4

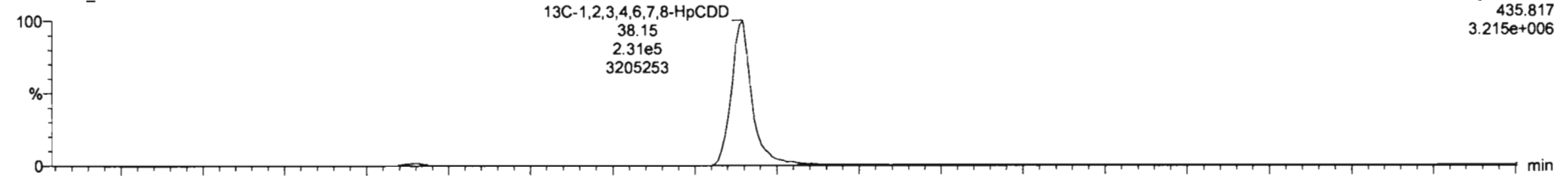


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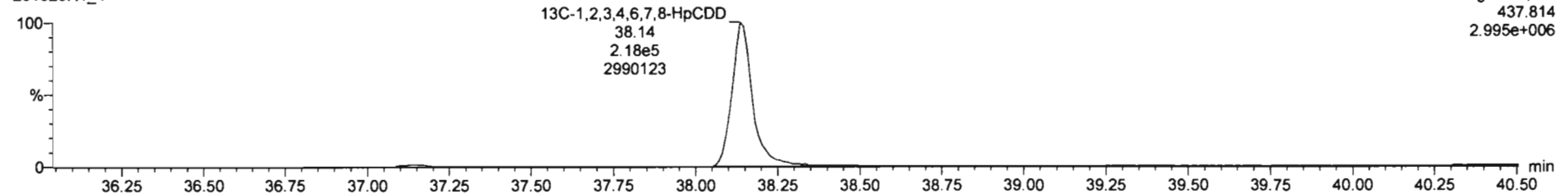


13C-1,2,3,4,6,7,8-HpCDD

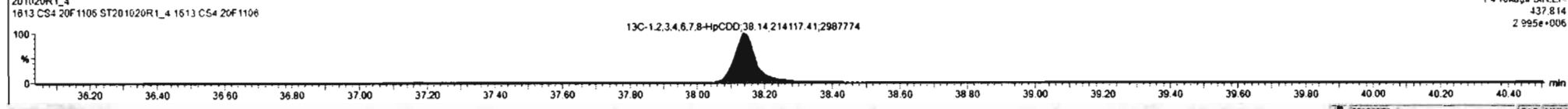
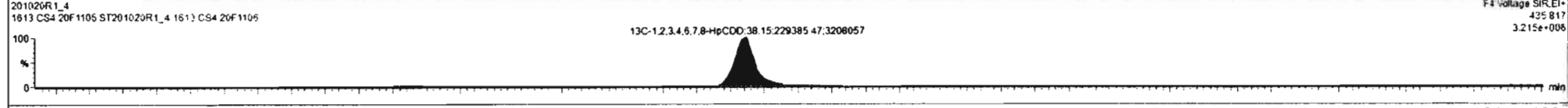
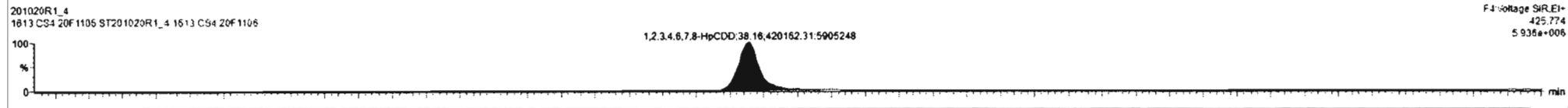
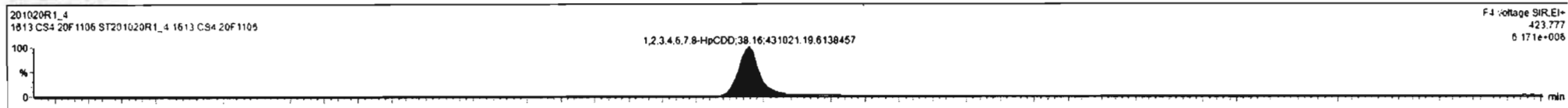
201020R1_4



201020R1_4



#	Name	RT	RA	Yth	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.32	0.775	NO	3.5574e5	8.6230e5	40.000	8.8	11.0	0.950	0.185
2	1,2,3,7,8-PeCDD	30.98	0.619	NO	1.2438e6	6.4725e5	200.000	8.5	9.58	0.585	0.0648
3	1,2,3,4,7,8-HxCDD	34.29	1.242	NO	1.0447e6	4.7134e5	200.000	8.9	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.41	1.254	NO	1.1898e6	5.8685e5	200.000	8.9	9.25	0.915	0.0846
5	1,2,3,7,8,9-HxCDD	34.63	1.238	NO	1.0748e6	5.1842e5	200.000	10.9	11.1	0.934	0.164
6	1,2,3,4,6,7,8-HpCDD	38.18	1.628	NO	8.5118e5	4.4390e5	200.000	10.3	11.7	0.878	0.182
7	OCDD	41.10	0.888	NO	1.4218e6	7.3847e5	400.000	10.4	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.84	0.755	NO	4.2583e5	1.1899e6	40.000	8.5	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.73	1.556	NO	1.9432e6	9.5548e5	200.000	5.8	8.34	0.983	0.0802
10	2,3,4,7,8-PeCDF	30.77	1.560	NO	2.1223e6	9.2707e5	200.000	7.1	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.38	1.223	NO	1.3298e6	6.3824e5	200.000	9.8	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.51	1.217	NO	1.5510e6	8.9639e5	200.000	10.5	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.18	1.225	NO	1.3713e6	6.3165e5	200.000	9.8	11.8	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.19	1.229	NO	1.1512e6	5.5735e5	200.000	8.6	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.76	1.015	NO	1.1132e6	4.8507e5	200.000	14.9	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.014	NO	9.5017e5	3.6349e5	200.000	10.2	12.2	1.12	0.137
17	OCDF	41.39	0.889	NO	1.8649e6	8.7402e5	400.000	9.7	12.2	0.868	0.106
18	13C-2,3,7,8-TCDD	26.31	0.776	NO	8.6230e5	7.9605e5	100.000	-2.6	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.96	0.624	NO	6.4725e5	7.9605e5	100.000	-5.5	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.28	1.267	NO	4.7134e5	6.8899e5	100.000	-1.9	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.39	1.283	NO	5.8685e5	6.8899e5	100.000	2.5	6.74	0.833	0.0581



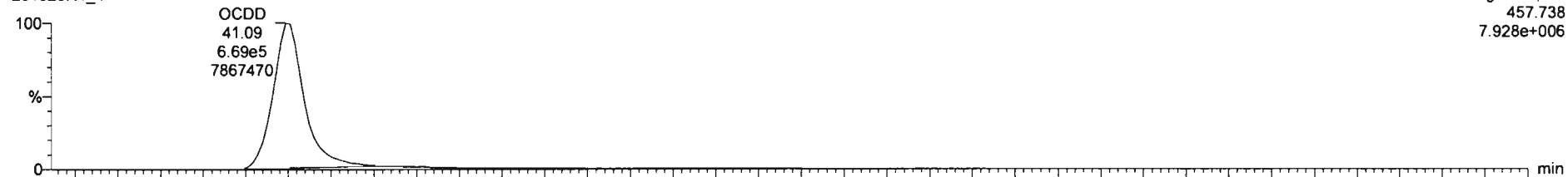
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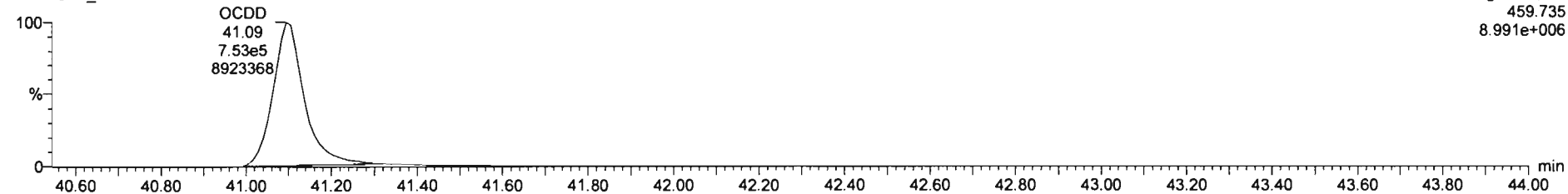
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OCDD

201020R1_4

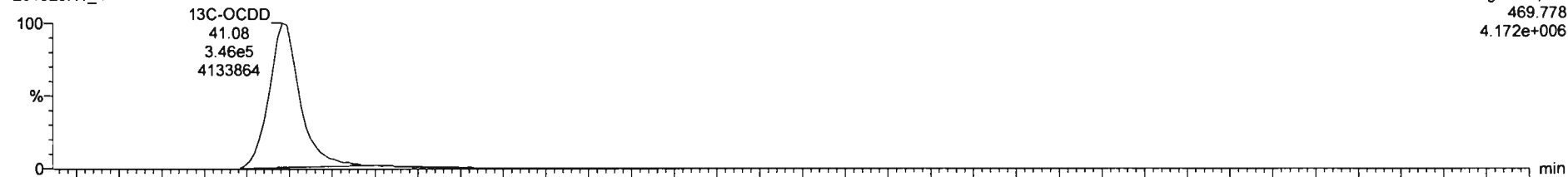


201020R1_4

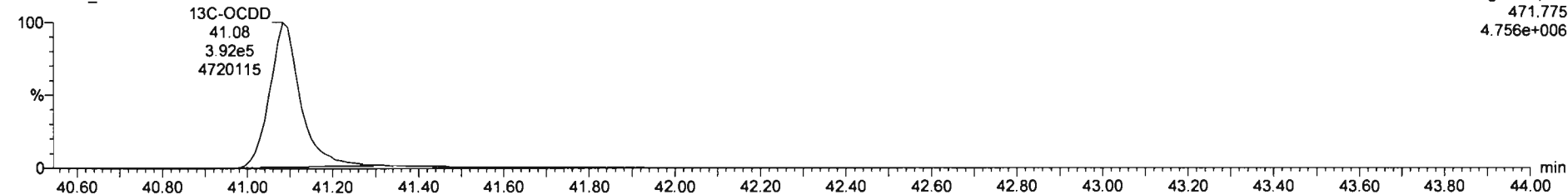


13C-OCDD

201020R1_4



201020R1_4



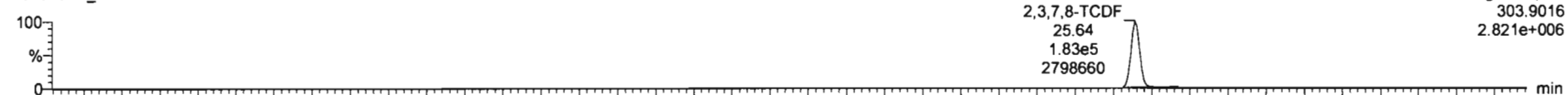
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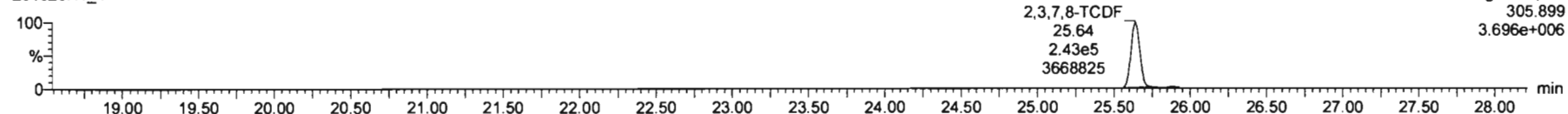
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2,3,7,8-TCDF

201020R1_4

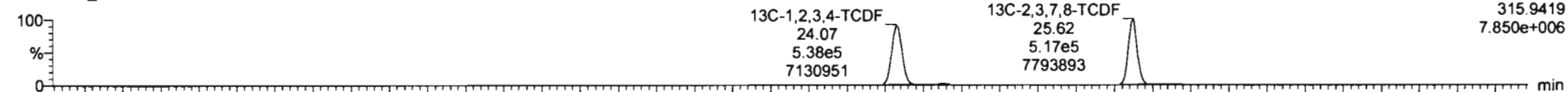


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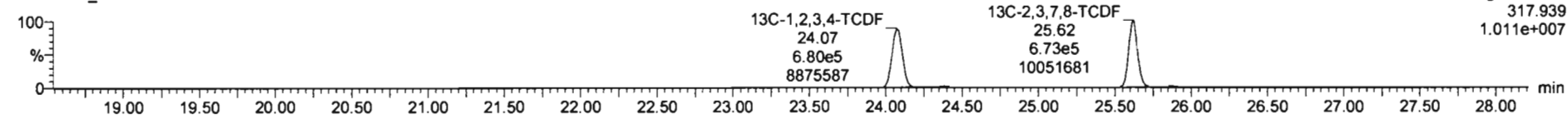


13C-2,3,7,8-TCDF

201020R1_4

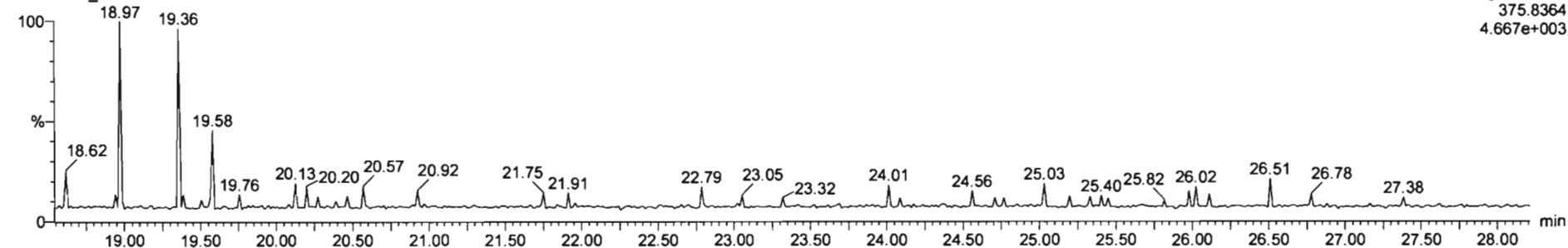


201020R1_4



DPE1

201020R1_4



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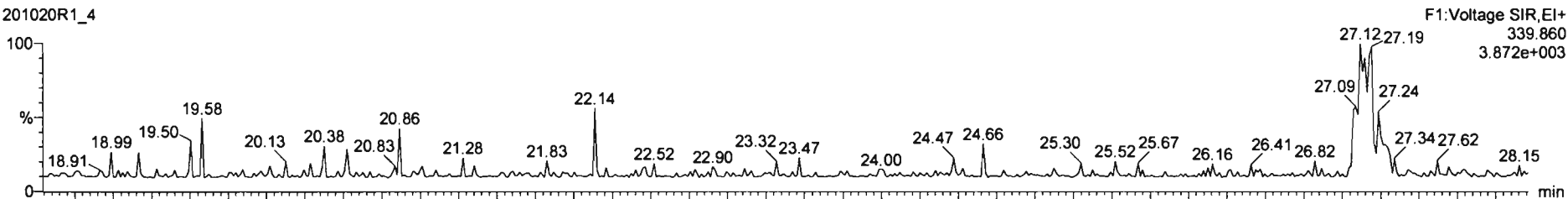
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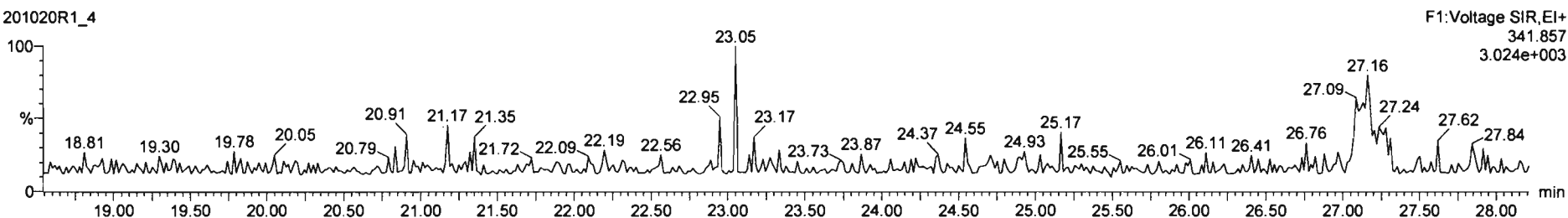
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201020R1_4

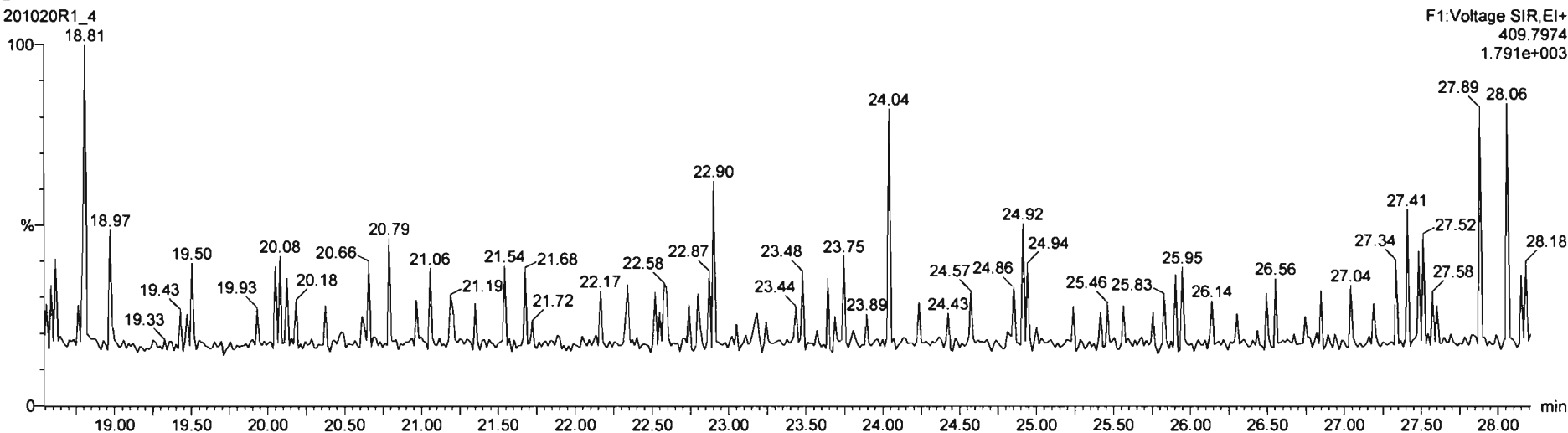


201020R1_4



DPE6

201020R1_4



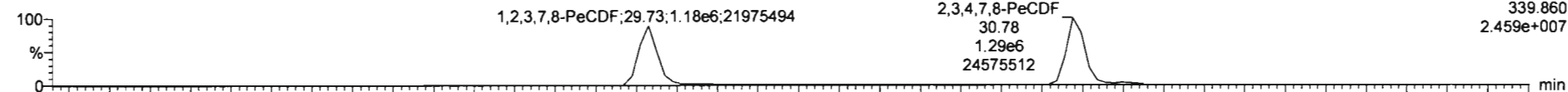
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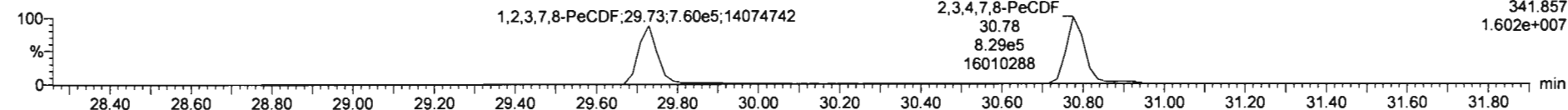
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1,2,3,7,8-PeCDF

201020R1_4

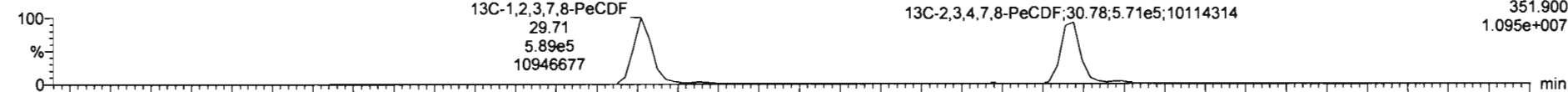


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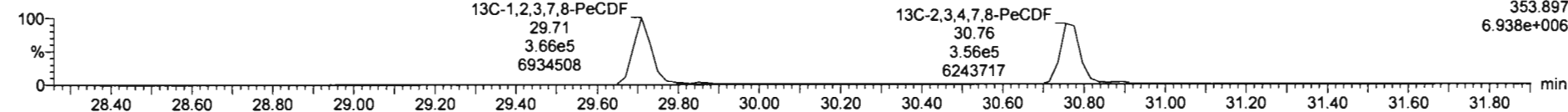


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201020R1_4

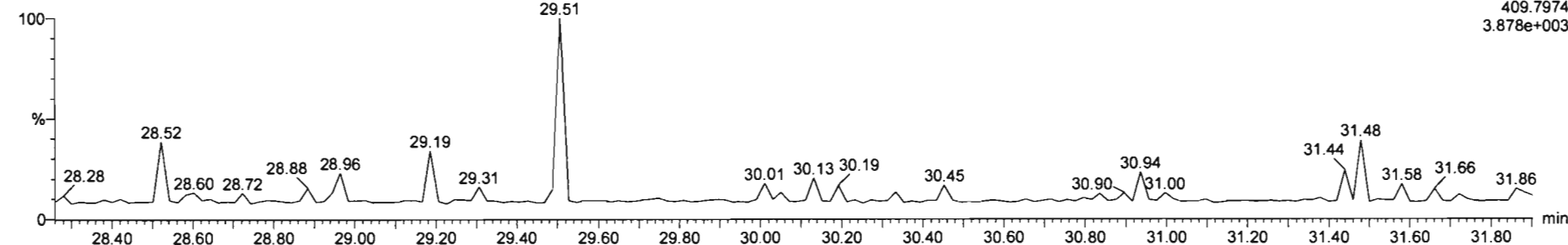


201020R1_4



DPE2

201020R1_4



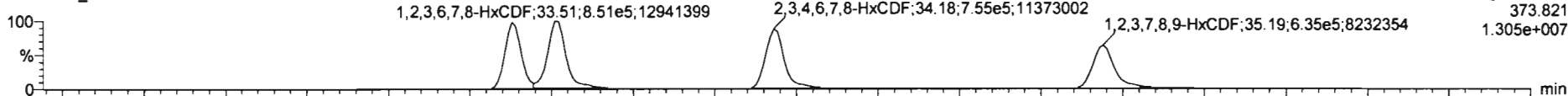
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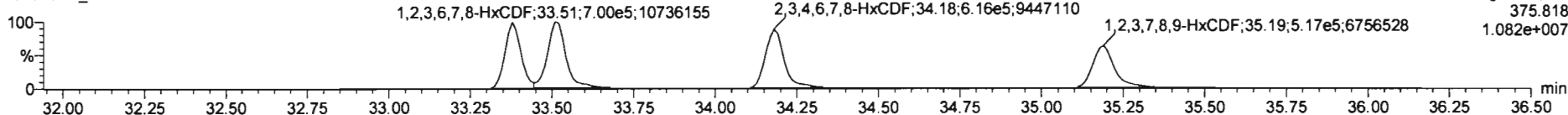
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1,2,3,4,7,8-HxCDF

201020R1_4

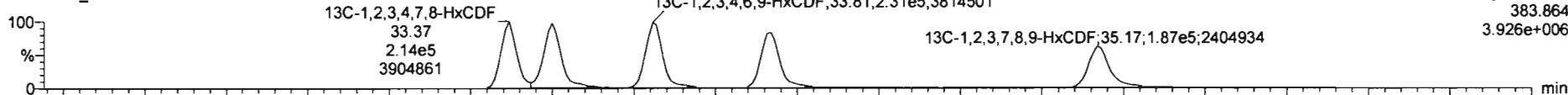


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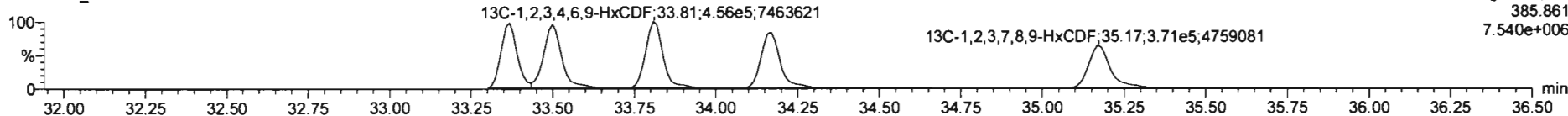


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201020R1_4

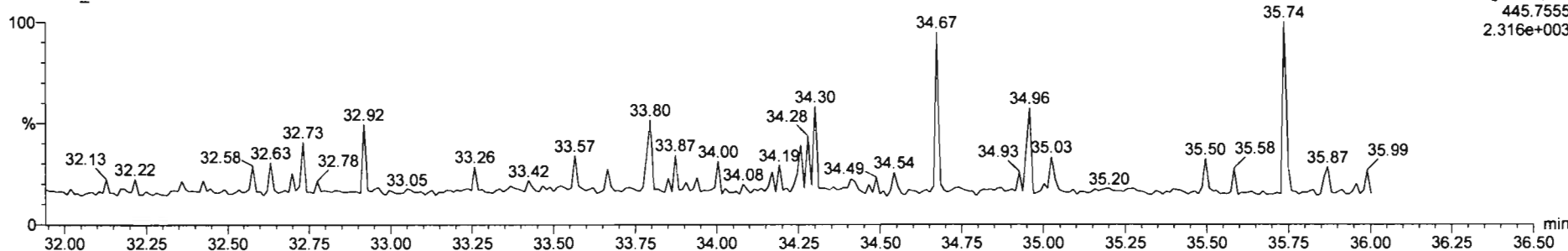


201020R1_4



DPE3

201020R1_4



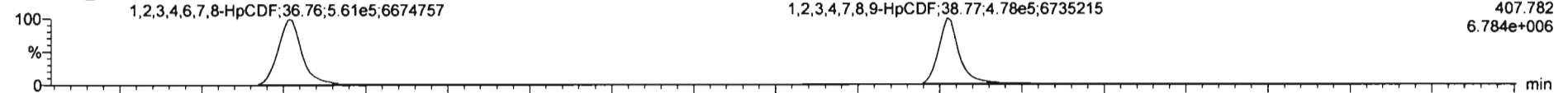
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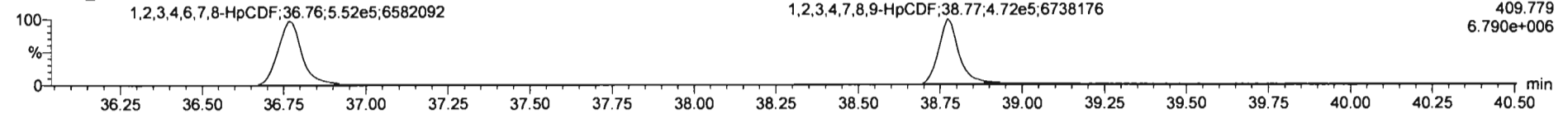
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1,2,3,4,6,7,8-HpCDF

201020R1_4

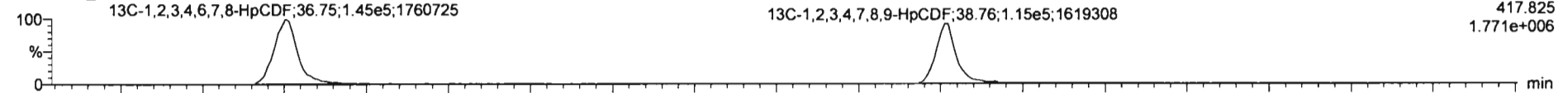


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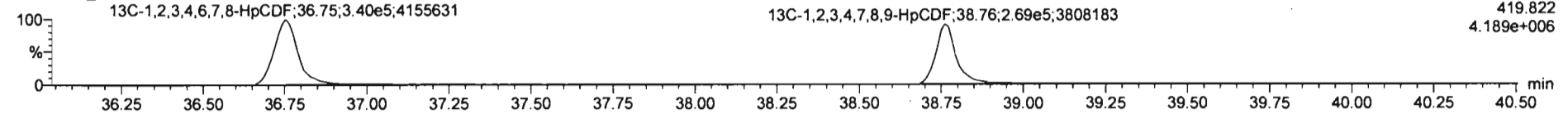


13C-1,2,3,4,6,7,8-HpCDF

201020R1_4

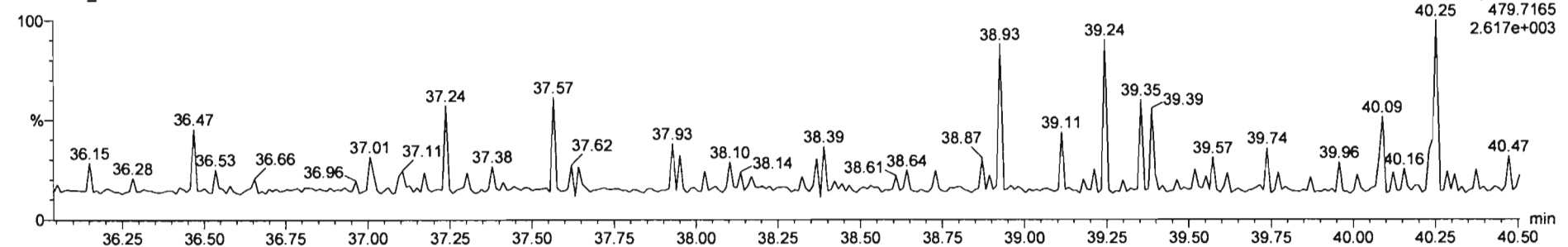


201020R1_4



DPE4

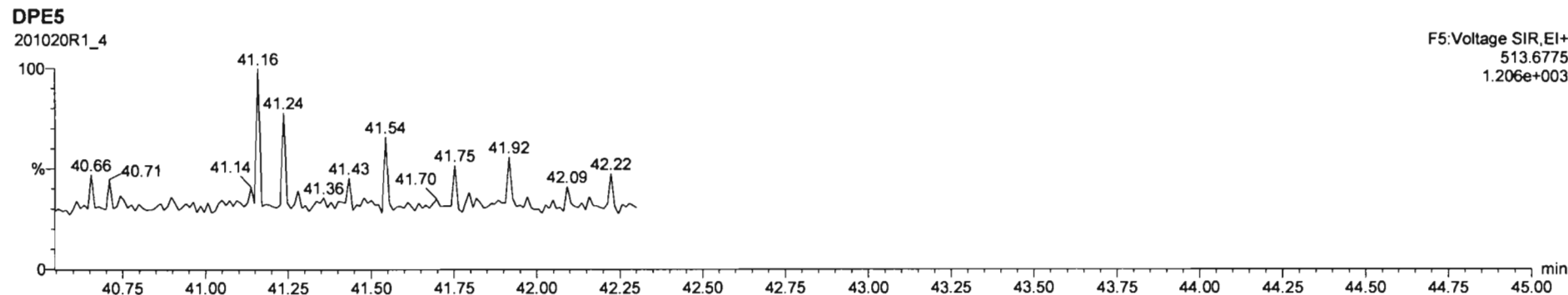
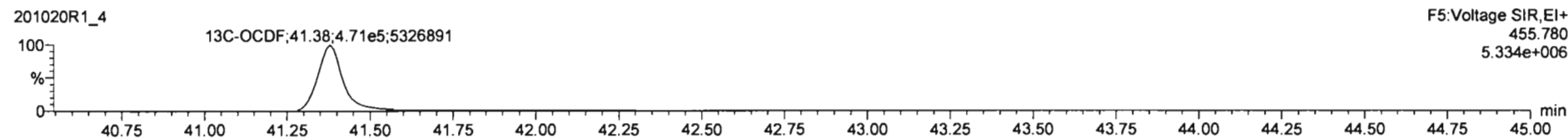
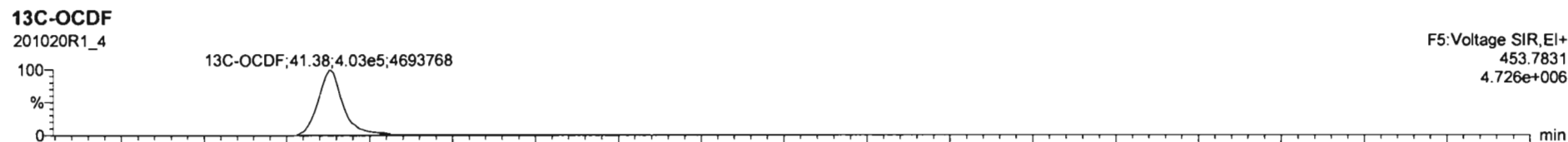
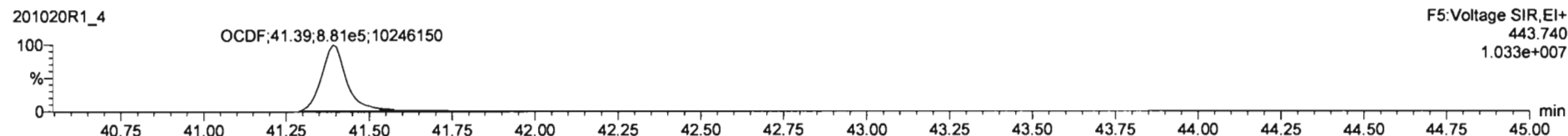
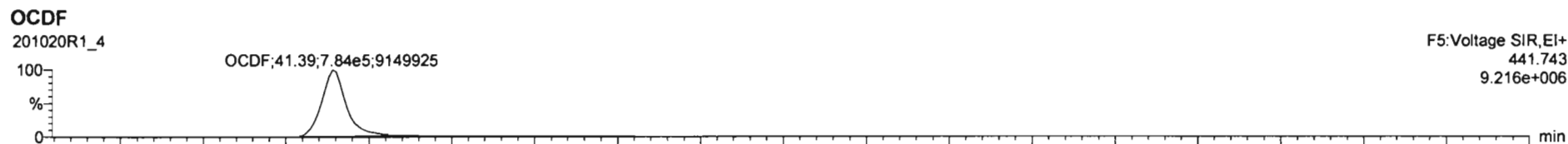
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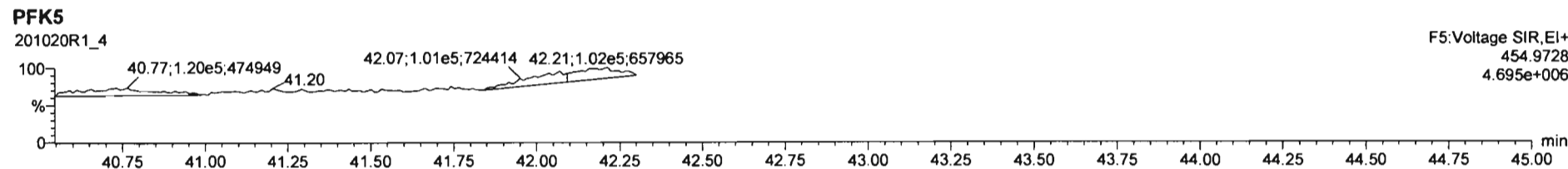
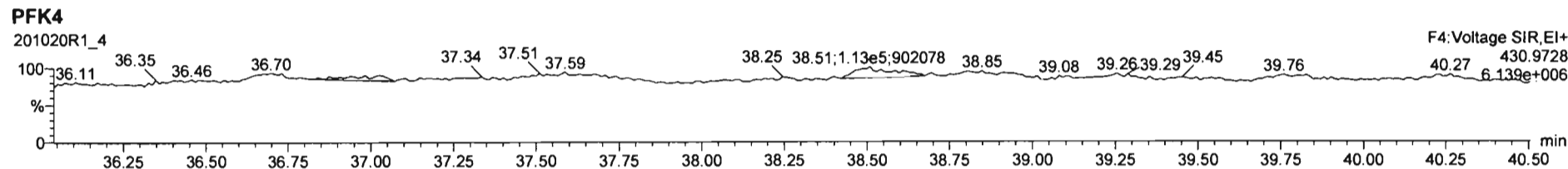
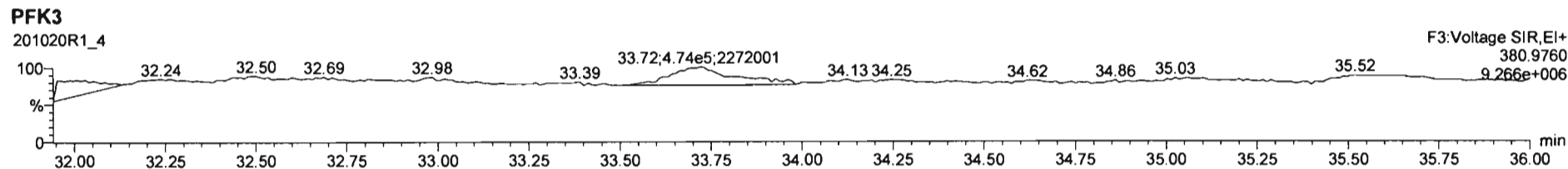
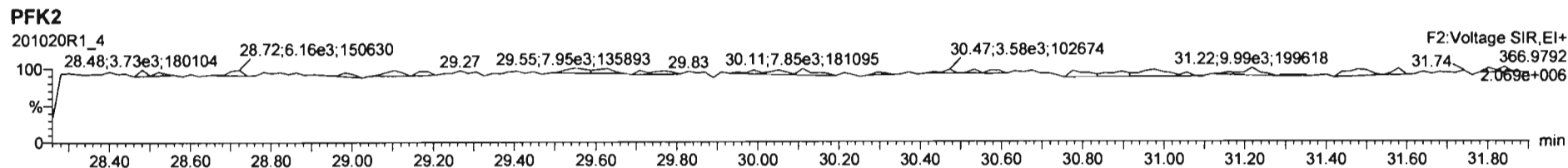
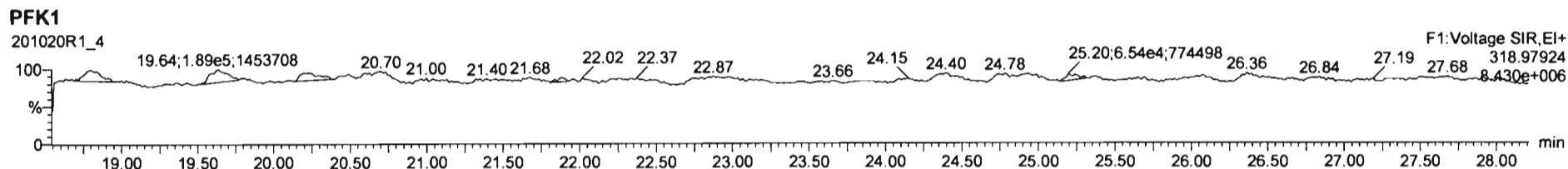
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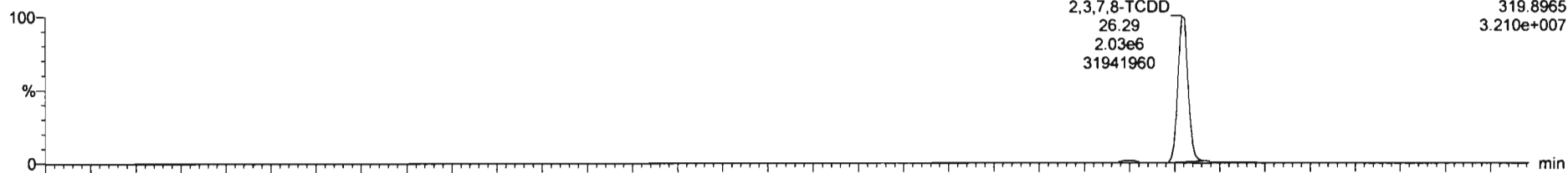
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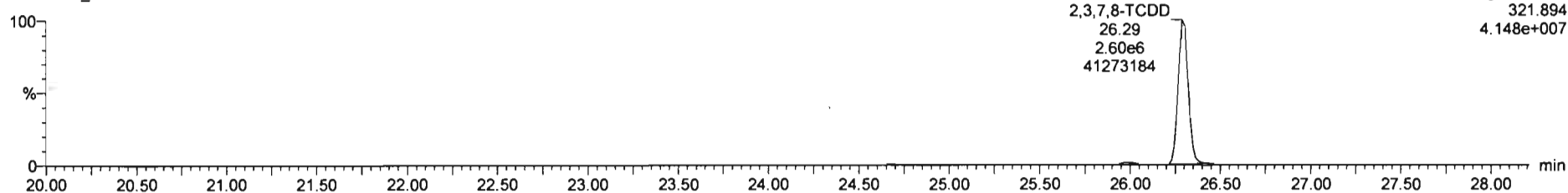
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2,3,7,8-TCDD

201020R1_5

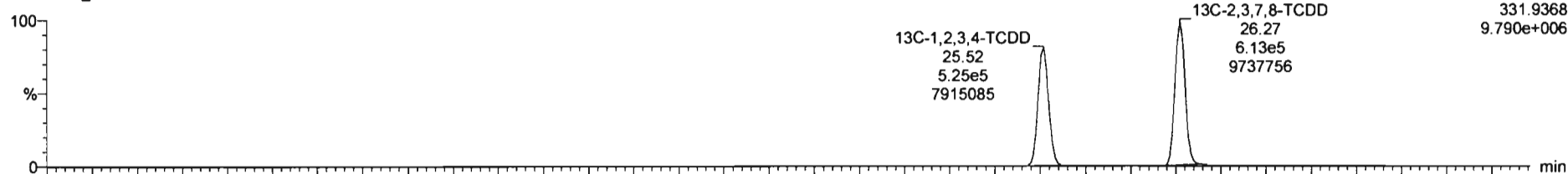


201020R1_5

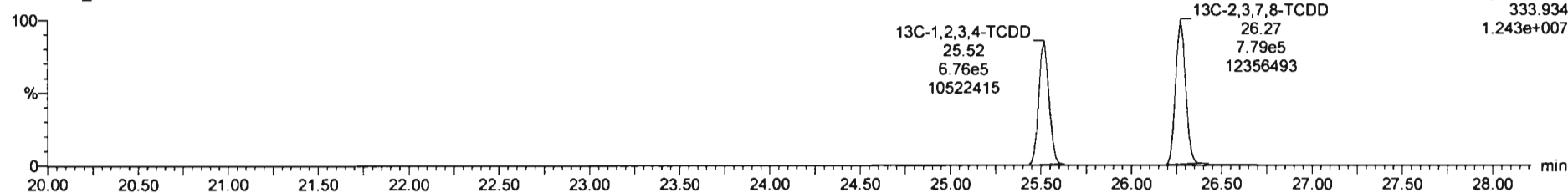


¹³C-2,3,7,8-TCDD

201020R1_5



201020R1_5



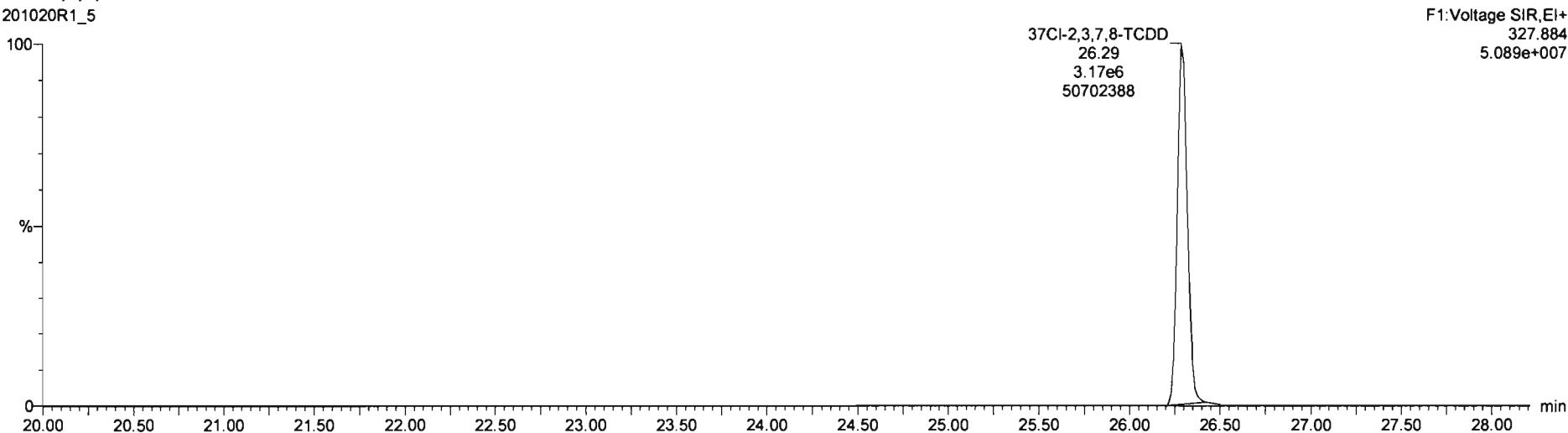
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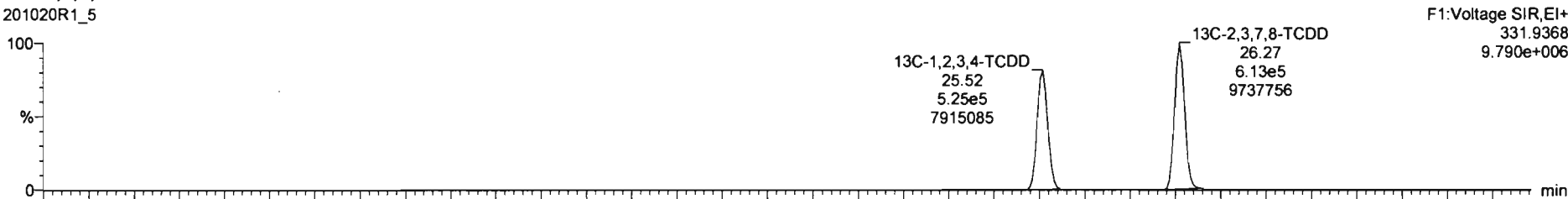
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201020R1_5

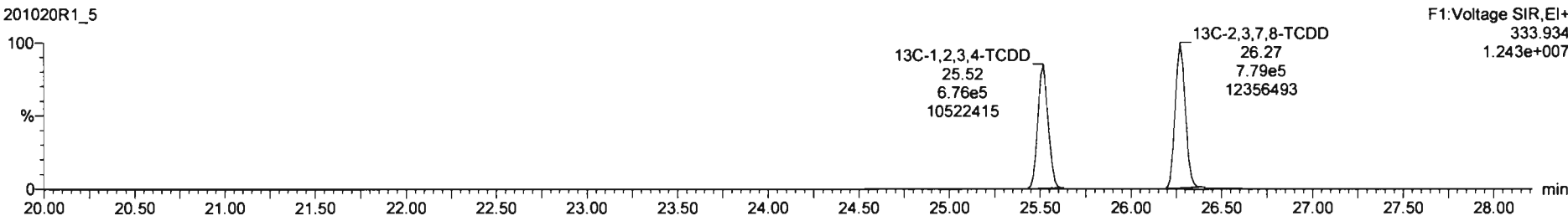


13C-1,2,3,4-TCDD

201020R1_5



201020R1_5



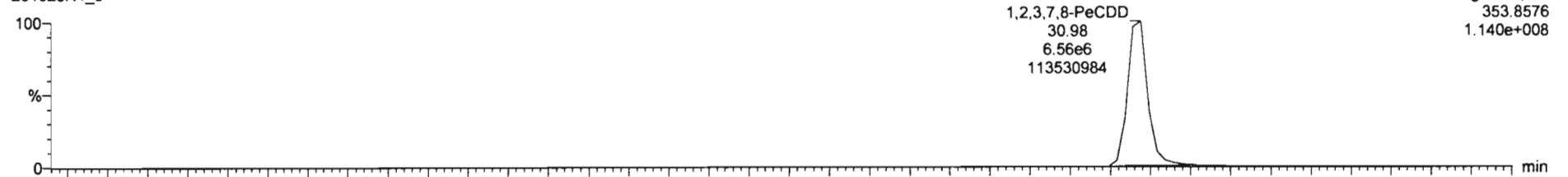
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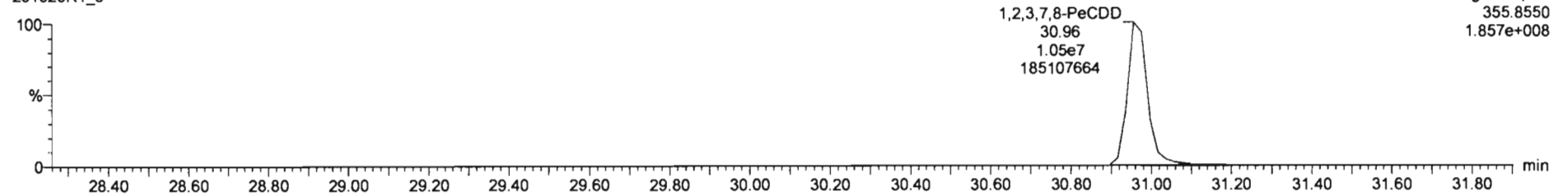
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1,2,3,7,8-PeCDD

201020R1_5

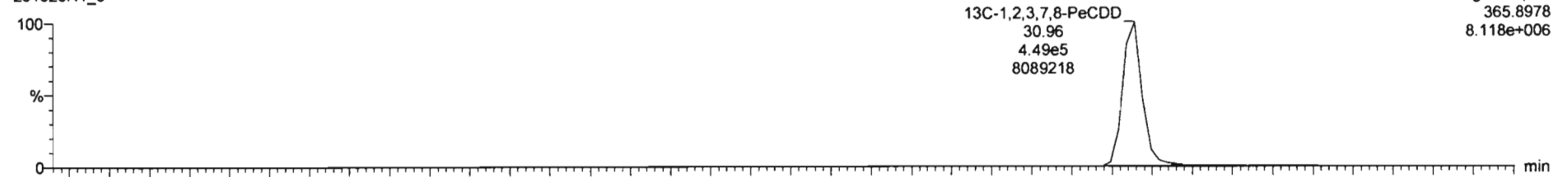


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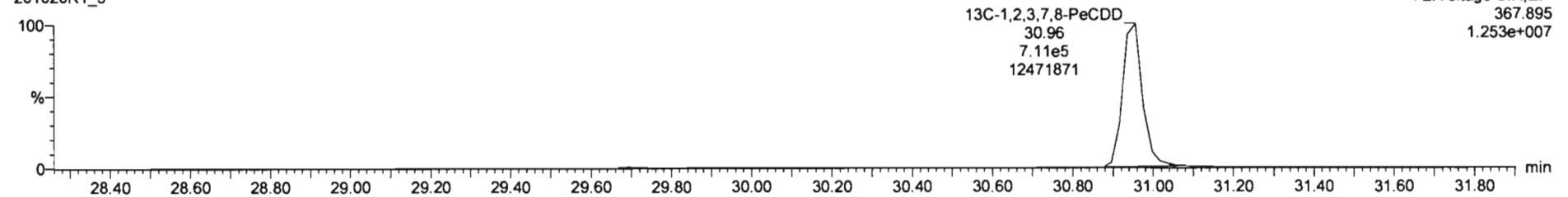


13C-1,2,3,7,8-PeCDD

201020R1_5



201020R1_5



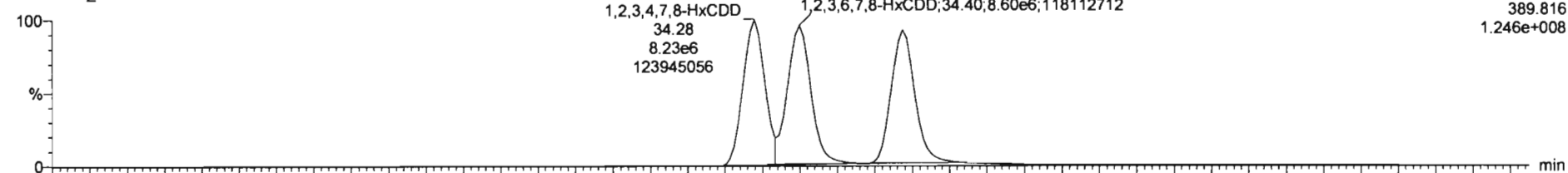
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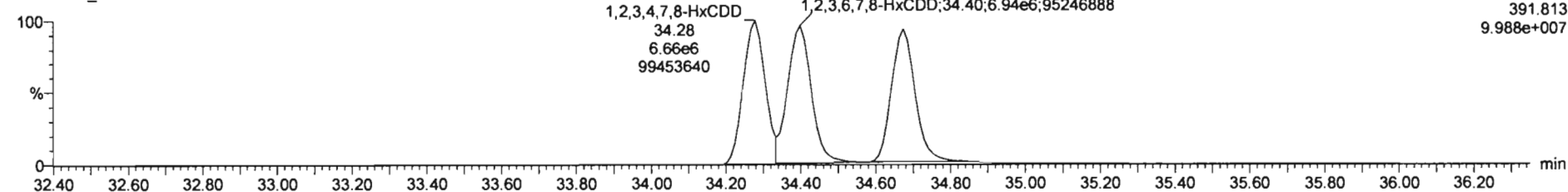
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1,2,3,4,7,8-HxCDD

201020R1_5

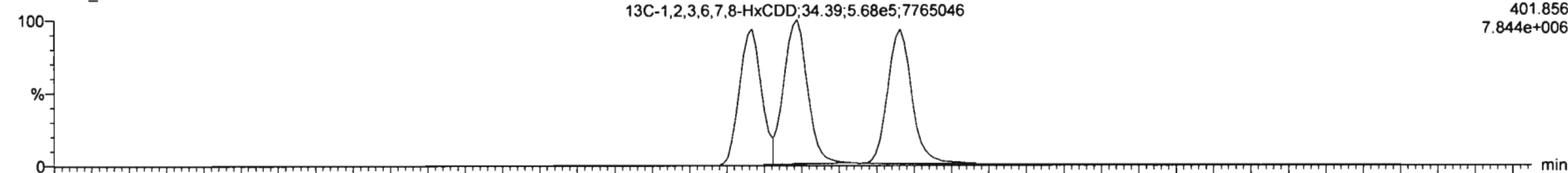


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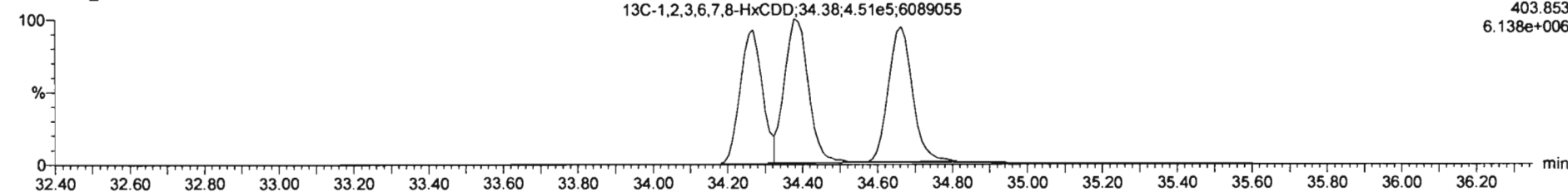


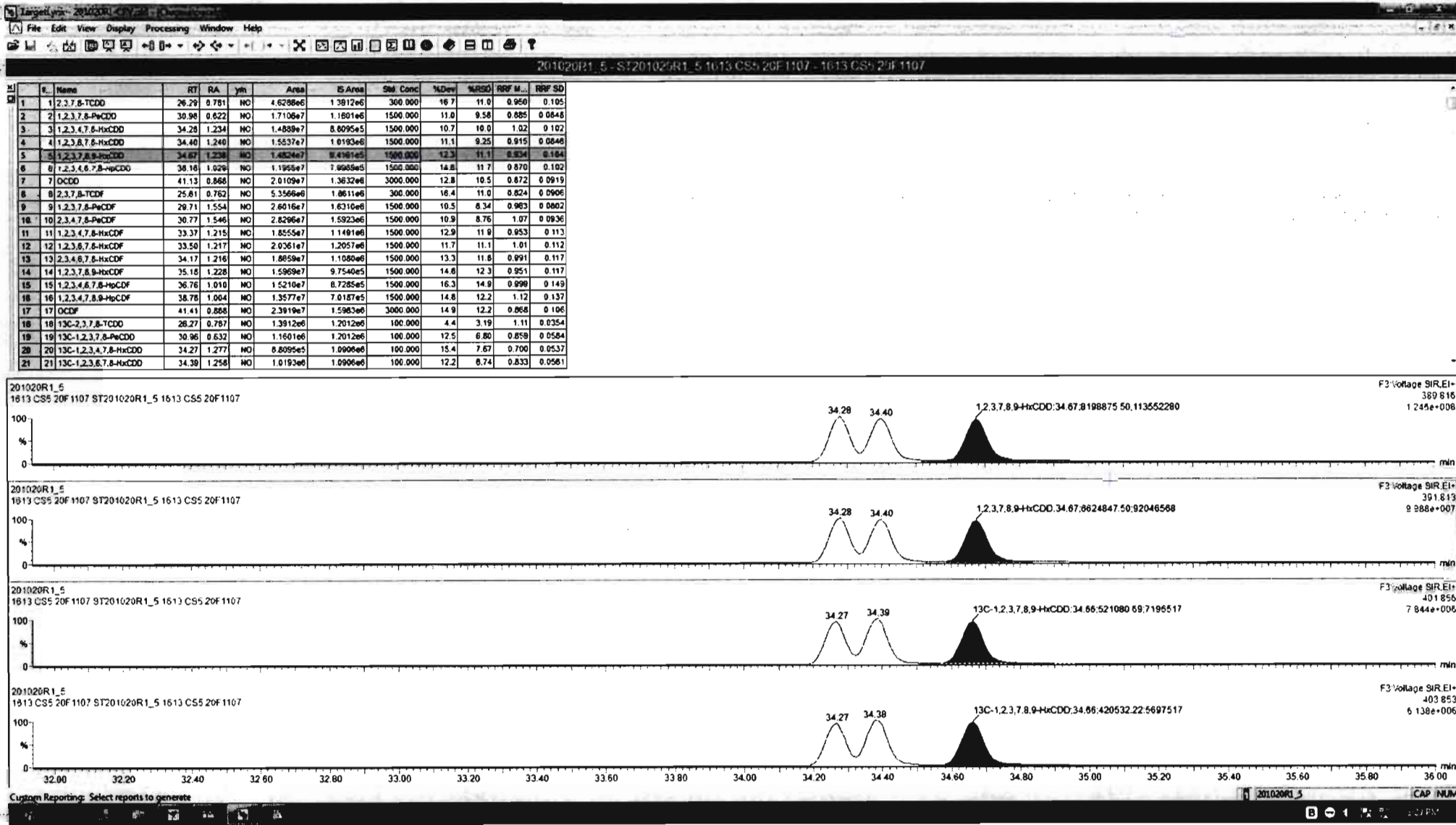
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201020R1_5



201020R1_5





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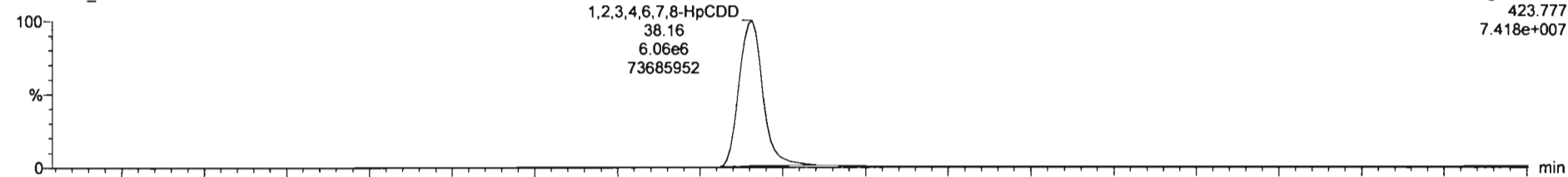
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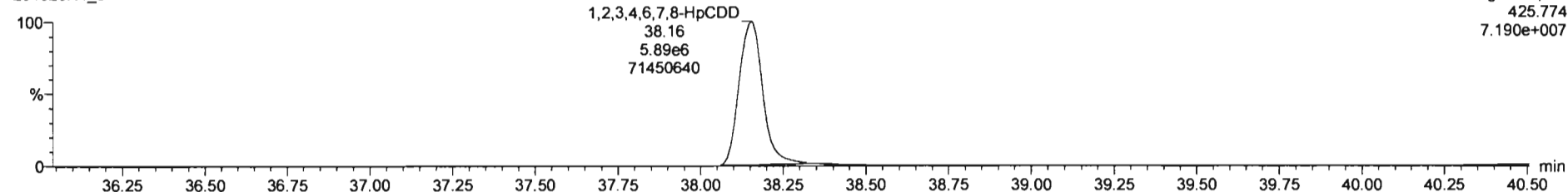
1,2,3,4,6,7,8-HpCDD

201020R1_5



F4: Voltage SIR, EI+
423.777
7.418e+007

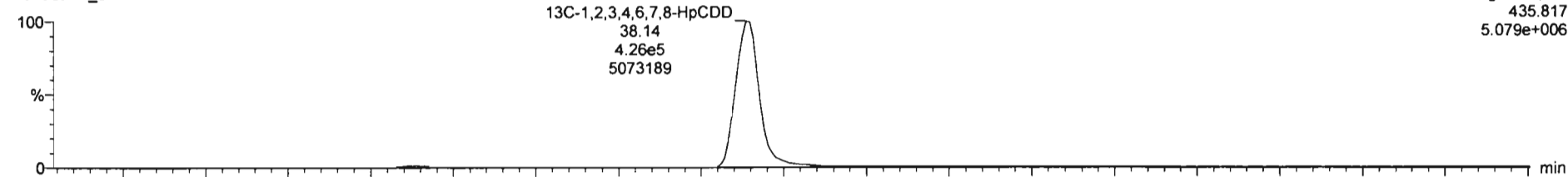
201020R1_5



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7.190e+007

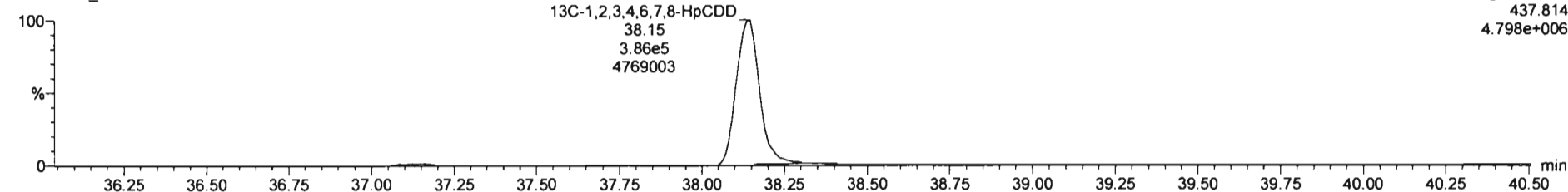
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201020R1_5



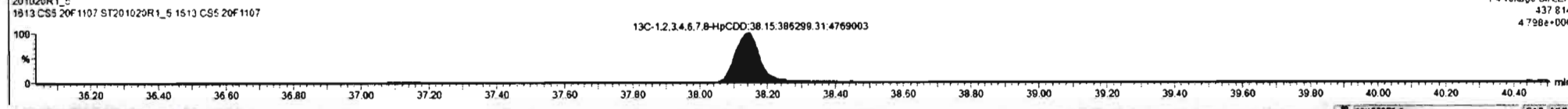
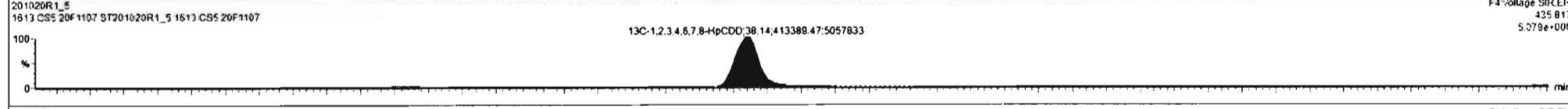
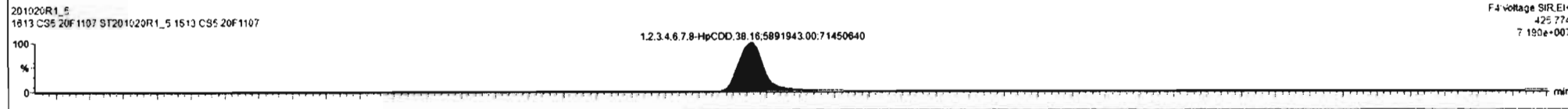
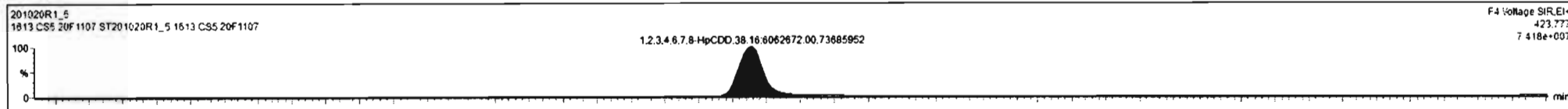
F4: Voltage SIR, EI+
435.817
5.079e+006

201020R1_5



F4: Voltage SIR, EI+
437.814
4.798e+006

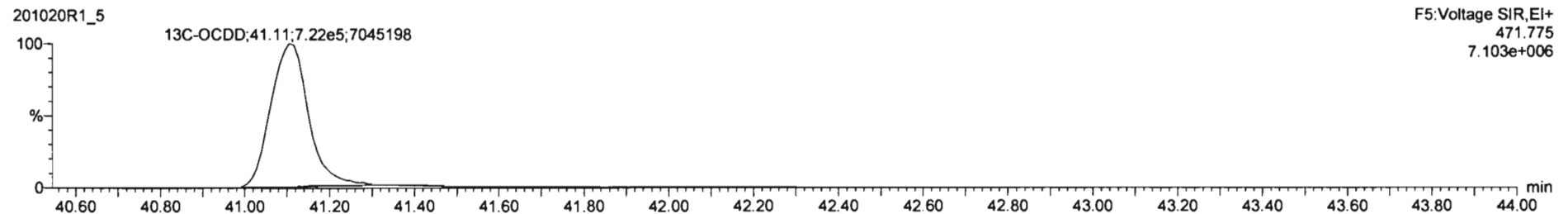
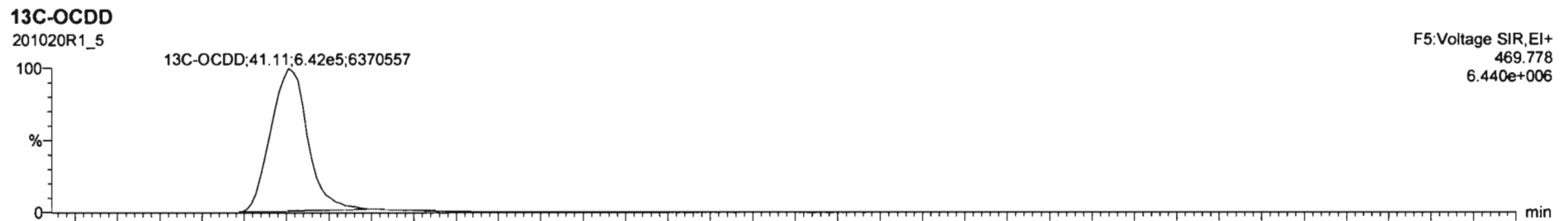
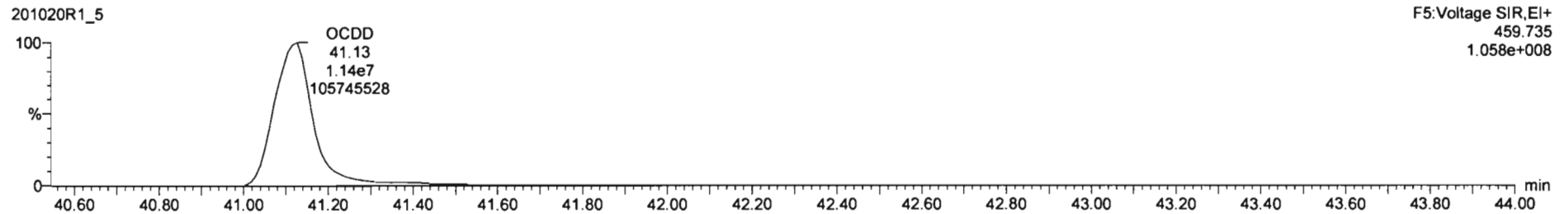
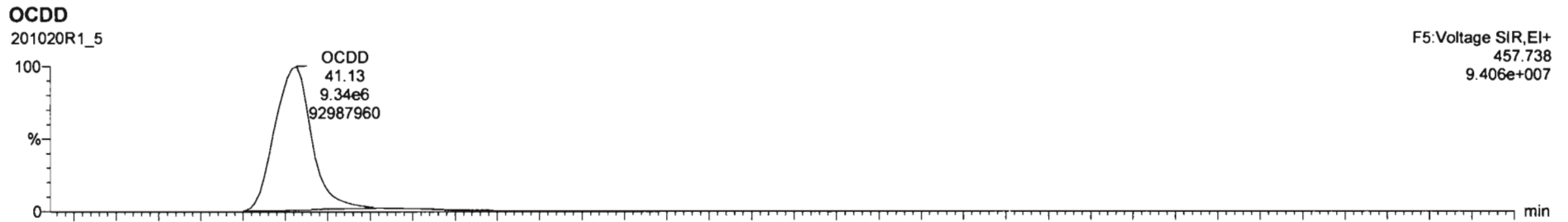
#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF W.	RRF SD
1	1,2,3,7,8-TCDD	26.29	0.781	NO	4.6288e6	1.3912e6	300.000	16.7	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.98	0.622	NO	1.7108e7	1.1801e6	1500.000	11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.234	NO	1.4888e7	8.8095e5	1500.000	10.7	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.40	1.240	NO	1.5537e7	1.0193e6	1500.000	11.1	9.25	0.915	0.0846
5	1,2,3,7,8,9-HxCDD	34.67	1.238	NO	1.4824e7	9.4161e5	1500.000	12.3	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.18	1.029	NO	1.1925e7	7.8998e5	1500.000	14.8	11.7	0.870	0.102
7	OCDD	41.13	0.888	NO	2.0109e7	1.3832e6	3000.000	12.8	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.762	NO	5.3566e6	1.8611e6	300.000	16.4	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.71	1.554	NO	2.6018e7	1.6310e6	1500.000	10.5	8.34	0.963	0.0802
10	2,3,4,7,8-PeCDF	30.77	1.546	NO	2.8206e7	1.5923e6	1500.000	10.9	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.215	NO	1.8555e7	1.1491e6	1500.000	12.9	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.217	NO	2.0361e7	1.2057e6	1500.000	11.7	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.17	1.216	NO	1.8659e7	1.1080e6	1500.000	13.3	11.8	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.228	NO	1.5969e7	9.7540e5	1500.000	14.8	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.76	1.010	NO	1.5210e7	8.7285e5	1500.000	16.3	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.78	1.004	NO	1.3577e7	7.0187e5	1500.000	14.8	12.2	1.12	0.137
17	OCDF	41.41	0.888	NO	2.3919e7	1.5983e6	3000.000	14.9	12.2	0.868	0.106
18	13C-2,3,7,8-TCDD	26.27	0.787	NO	1.3912e6	1.2012e6	100.000	4.4	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.96	0.632	NO	1.1601e6	1.2012e6	100.000	12.5	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.277	NO	8.8095e5	1.0908e6	100.000	15.4	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.39	1.258	NO	1.0193e6	1.0908e6	100.000	12.2	6.74	0.833	0.0561



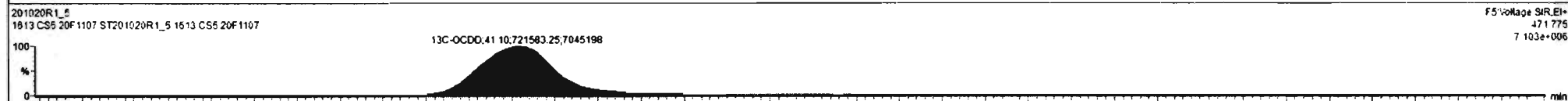
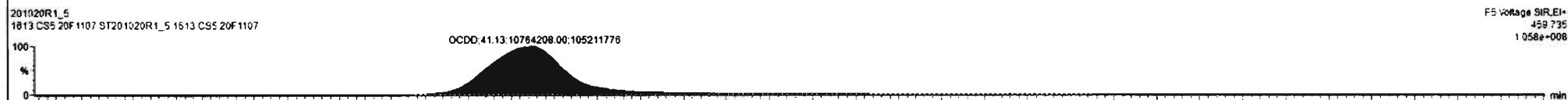
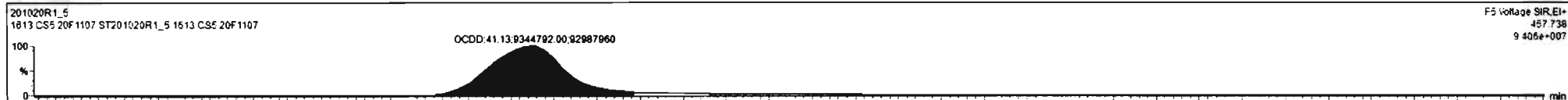
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Name: 201020R1_5, Date: 20-Oct-2020, Time: 12:16:56, ID: ST201020R1_5 1613 CS5 20F1107, Description: 1613 CS5 20F1107



#	Name	RT	RA	Yth	Area	ISArea	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	28.29	0.781	NO	4.6288e6	1.3912e6	300.000	16.7	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.98	0.822	NO	1.7106e7	1.1801e6	1500.000	11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.234	NO	1.4889e7	8.8095e5	1500.000	10.7	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.40	1.240	NO	1.5537e7	1.0190e6	1500.000	11.1	9.25	0.915	0.0848
5	1,2,3,7,8,9-HxCDD	34.67	1.238	NO	1.4824e7	9.4161e5	1500.000	12.3	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.16	1.629	NO	1.1955e7	7.8989e5	1500.000	14.8	11.7	0.870	0.102
7	OCDD	41.13	0.868	NO	2.8188e7	1.3652e6	3000.000	12.8	10.5	0.872	0.0918
8	2,3,7,8-TCDF	25.61	0.762	NO	5.3586e6	1.8611e6	300.000	16.4	11.0	0.824	0.0908
9	1,2,3,7,8-PeCDF	29.71	1.554	NO	2.6018e7	1.6310e6	1500.000	10.5	8.34	0.983	0.0802
10	2,3,4,7,8-PeCDF	30.77	1.546	NO	2.8296e7	1.5923e6	1500.000	10.9	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.215	NO	1.8555e7	1.1491e6	1500.000	12.9	11.9	0.853	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.217	NO	2.0361e7	1.2957e6	1500.000	11.7	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.17	1.216	NO	1.8959e7	1.1086e6	1500.000	13.3	11.6	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.228	NO	1.5989e7	9.7540e5	1500.000	14.8	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.76	1.010	NO	1.5210e7	8.7285e5	1500.000	16.3	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.78	1.004	NO	1.3577e7	7.0187e5	1500.000	14.8	12.2	1.12	0.137
17	OCDF	41.41	0.888	NO	2.5919e7	1.5983e6	3000.000	14.9	12.2	0.868	0.108
18	13C-2,3,7,8-TCDD	28.27	0.787	NO	1.3912e6	1.2012e6	100.000	4.4	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.98	0.632	NO	1.1601e6	1.2012e6	100.000	12.5	6.80	0.858	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.277	NO	8.8095e5	1.0906e6	100.000	15.4	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.39	1.258	NO	1.0193e6	1.0906e6	100.000	12.2	6.74	0.833	0.0561



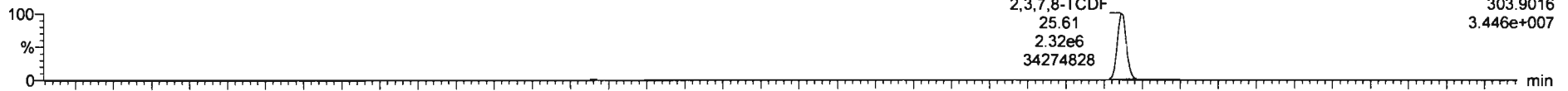
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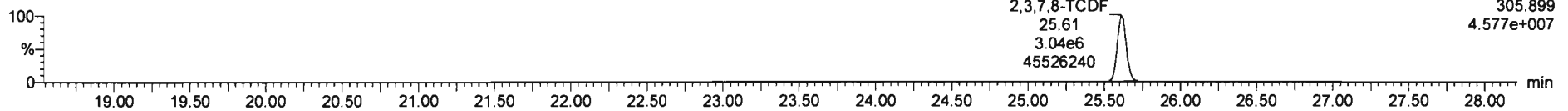
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2,3,7,8-TCDF

201020R1_5

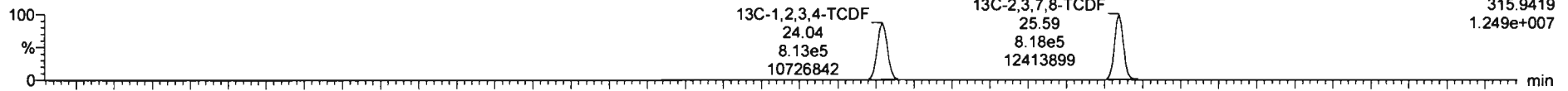


201020R1_5

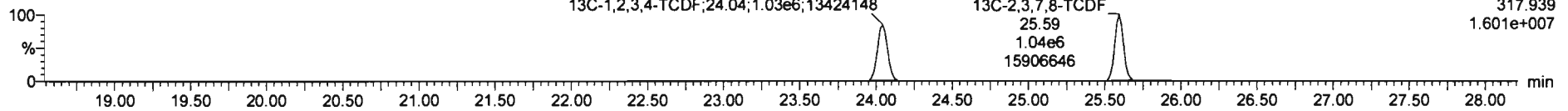


13C-2,3,7,8-TCDF

201020R1_5

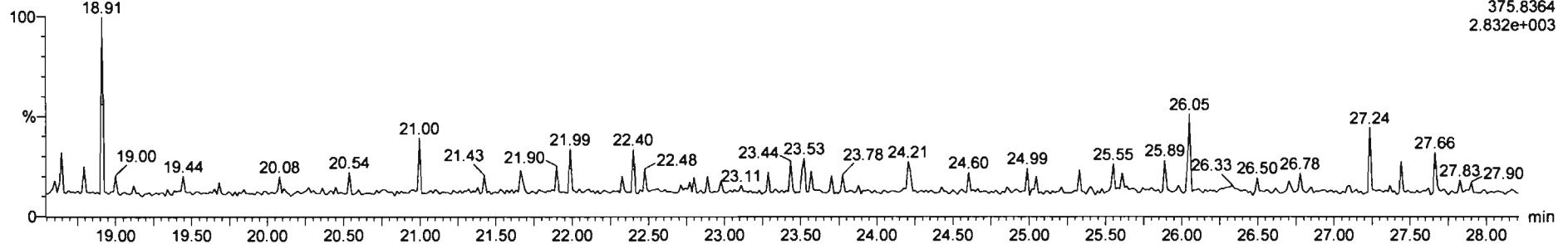


201020R1_5



DPE1

201020R1_5



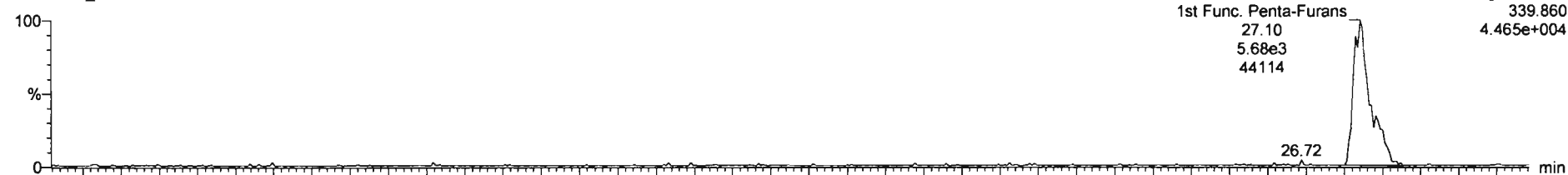
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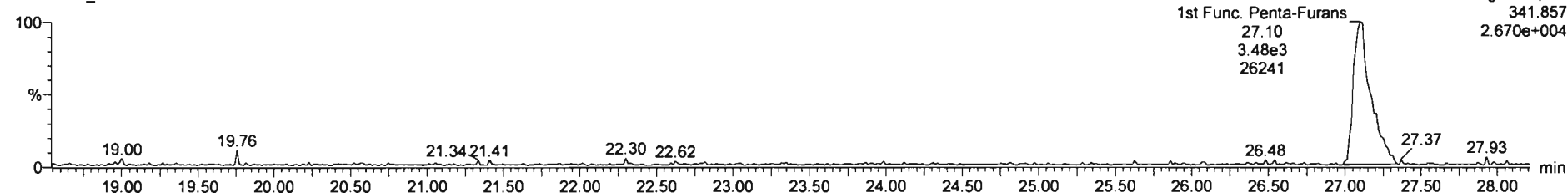
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201020R1_5

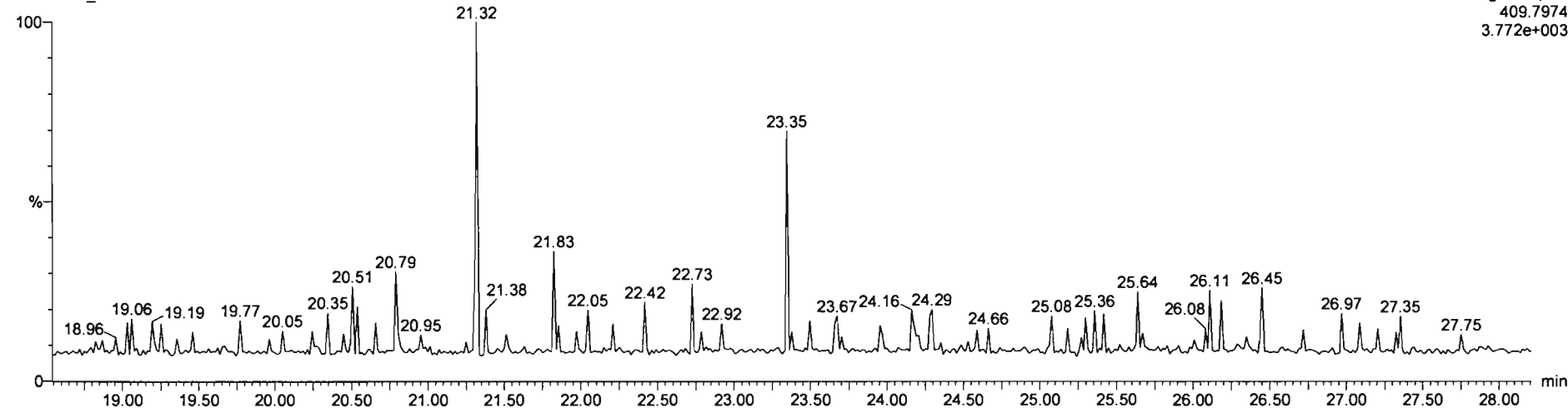


201020R1_5



DPE6

201020R1_5



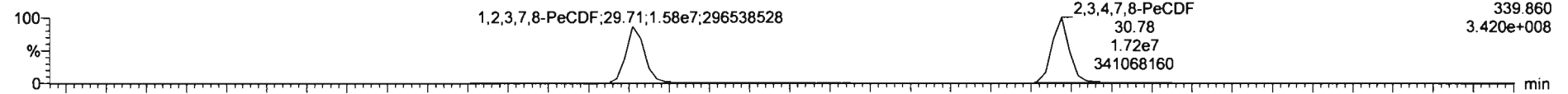
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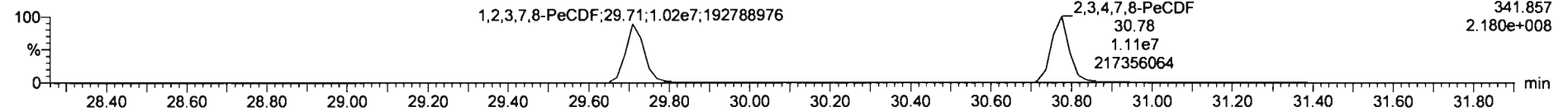
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1,2,3,7,8-PeCDF

201020R1_5

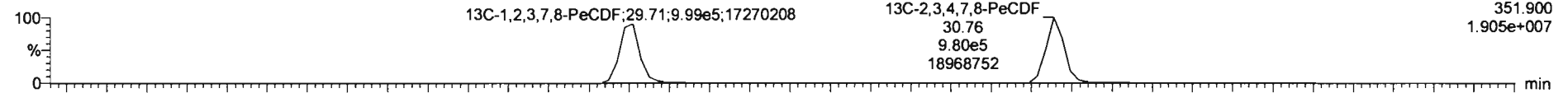


201020R1_5

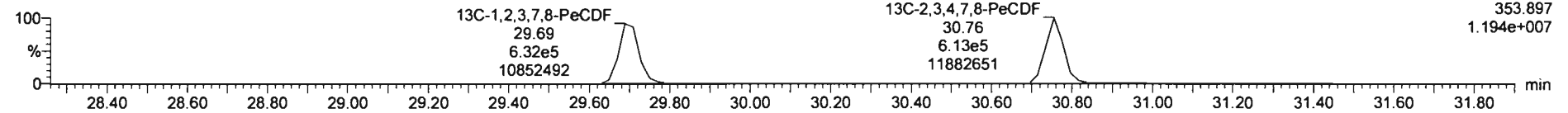


13C-1,2,3,7,8-PeCDF

201020R1_5

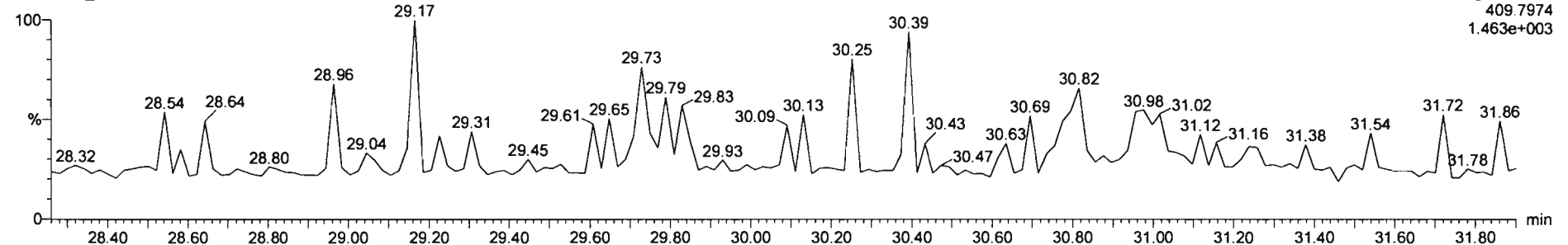


201020R1_5



DPE2

201020R1_5



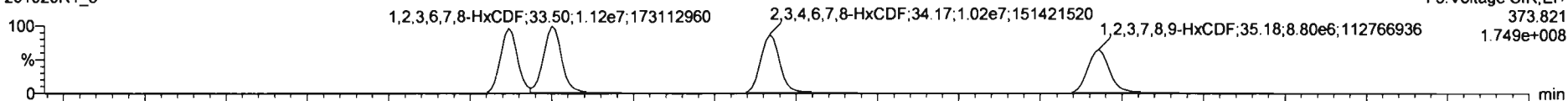
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

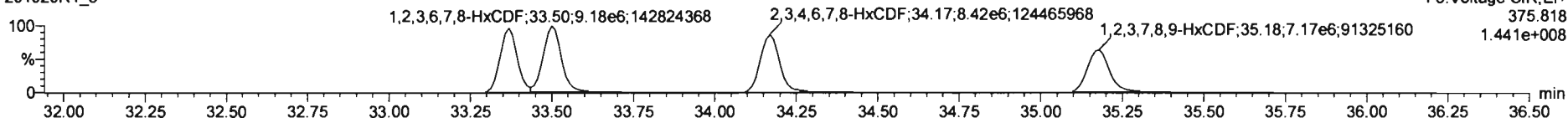
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1,2,3,4,7,8-HxCDF

201020R1_5

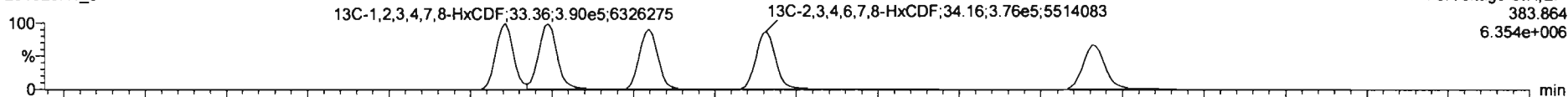


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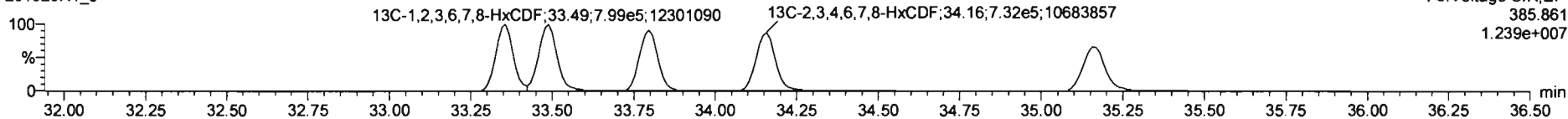


13C-1,2,3,4,7,8-HxCDF

201020R1_5

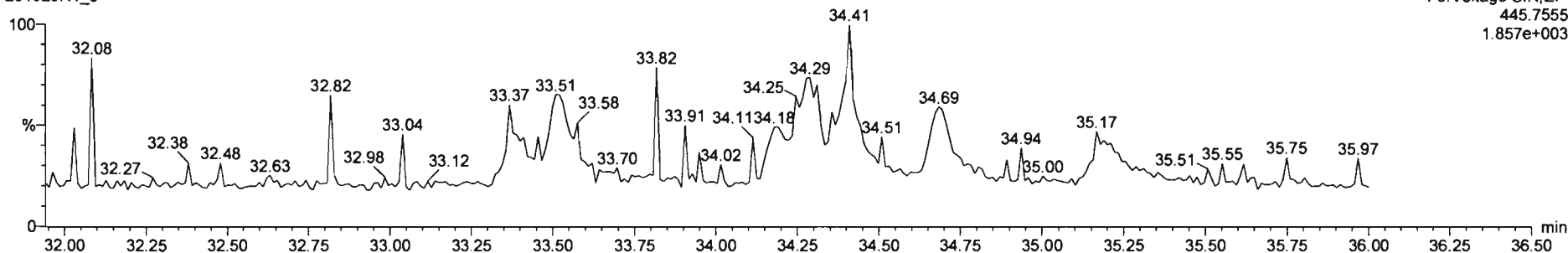


201020R1_5



DPE3

201020R1_5



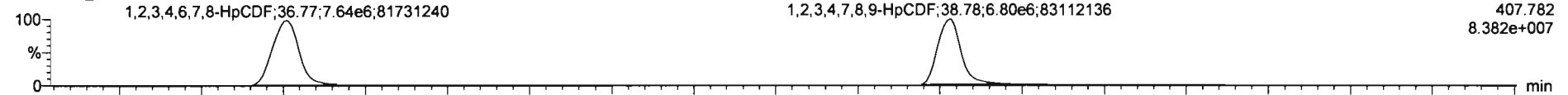
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

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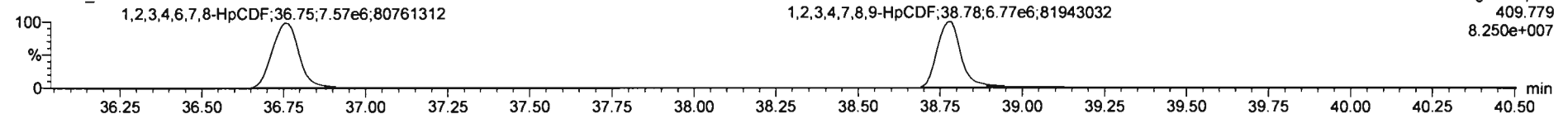
1,2,3,4,6,7,8-HpCDF

201020R1_5



F4:Voltage SIR,EI+
407.782
8.382e+007

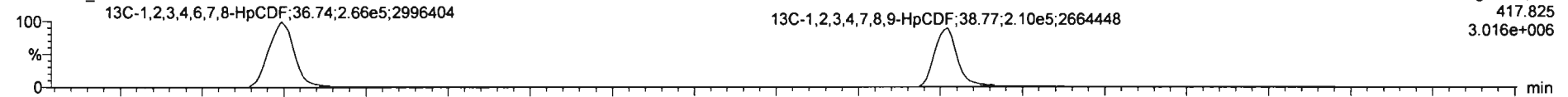
201020R1_5



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8.250e+007

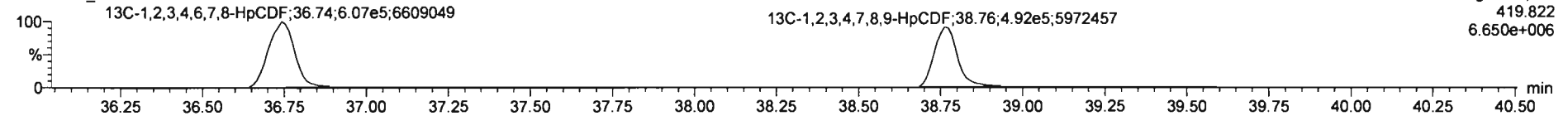
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201020R1_5



F4:Voltage SIR,EI+
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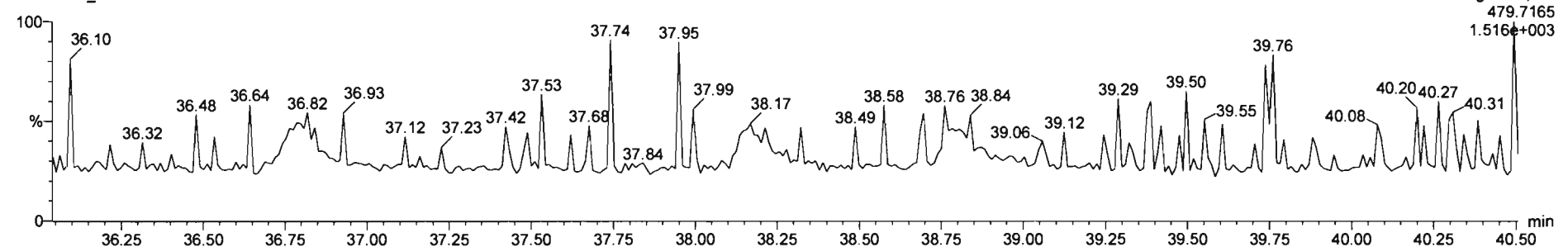
201020R1_5



F4:Voltage SIR,EI+
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6.650e+006

DPE4

201020R1_5



F4:Voltage SIR,EI+
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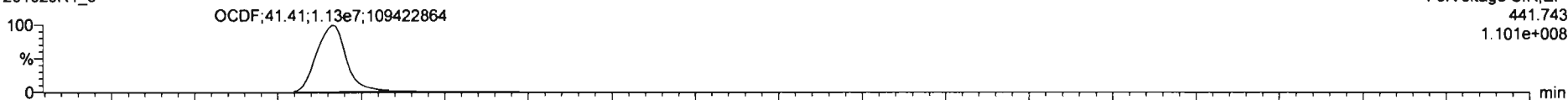
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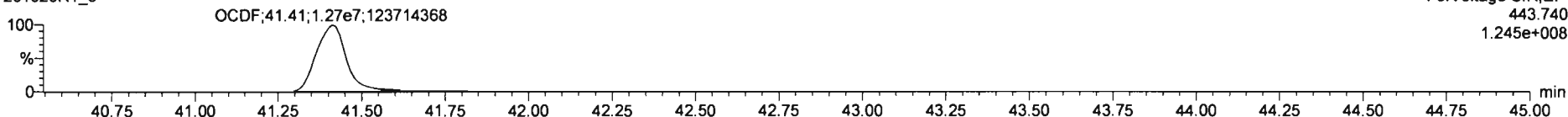
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OCDF

201020R1_5

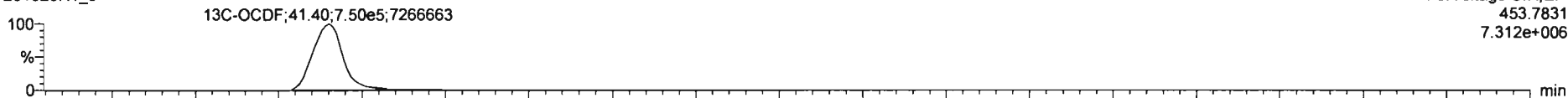


201020R1_5

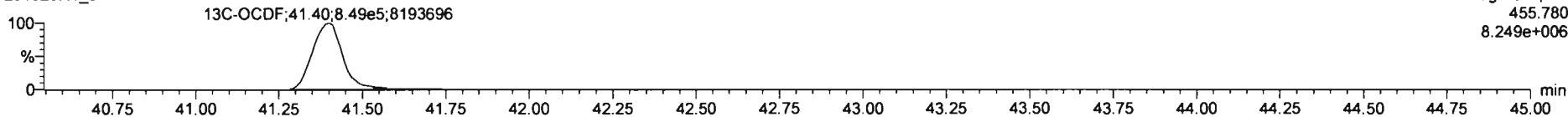


13C-OCDF

201020R1_5

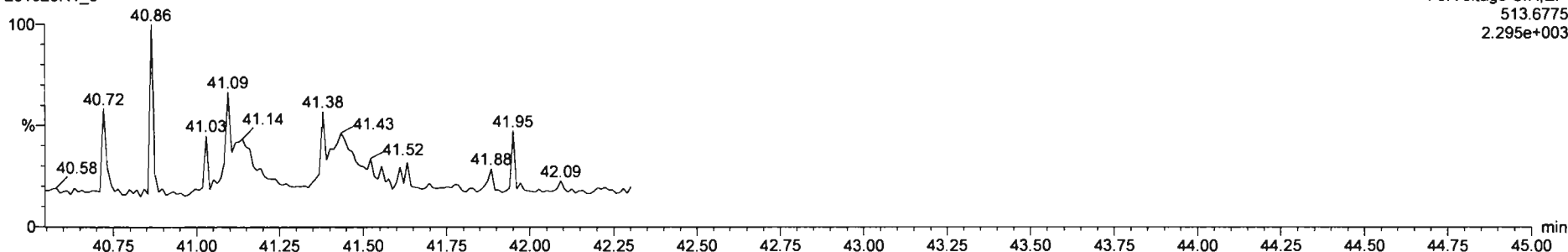


201020R1_5



DPE5

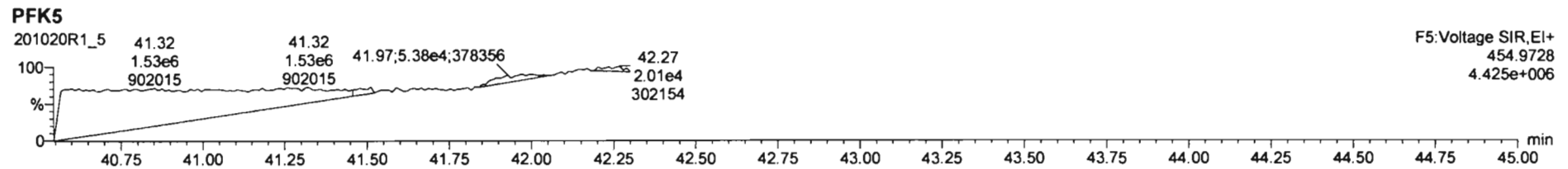
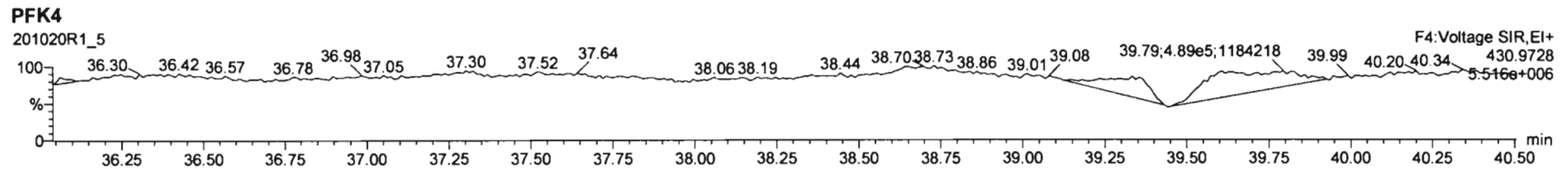
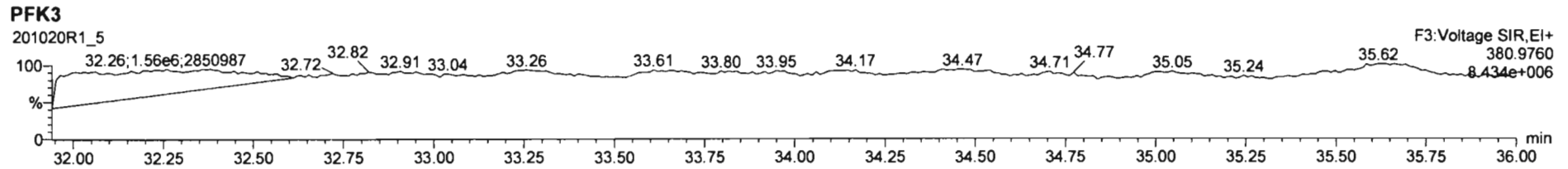
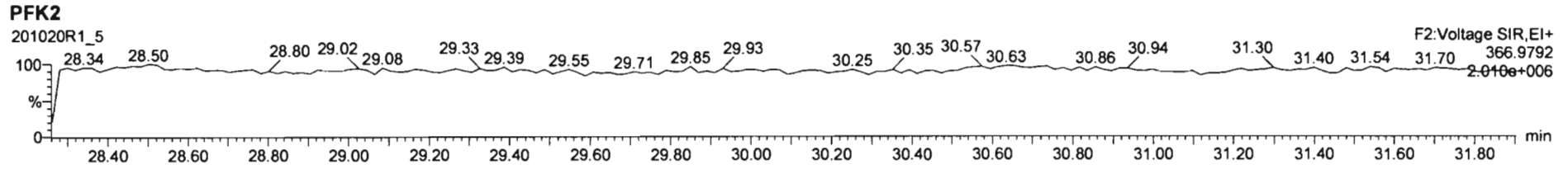
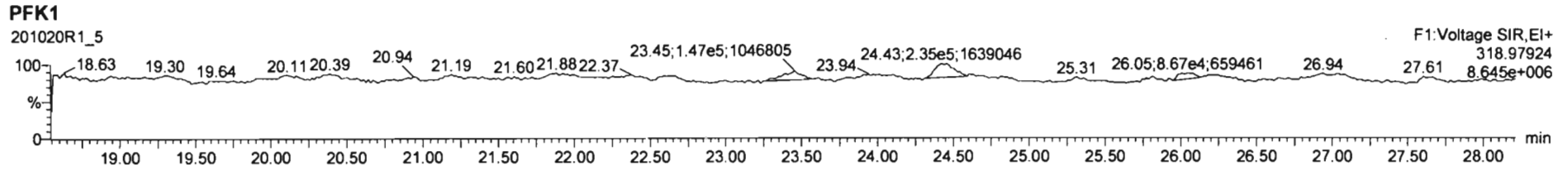
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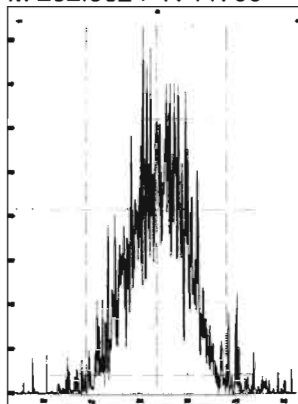
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

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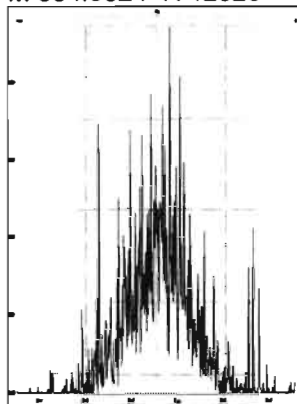


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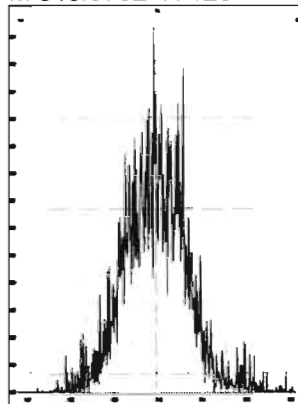
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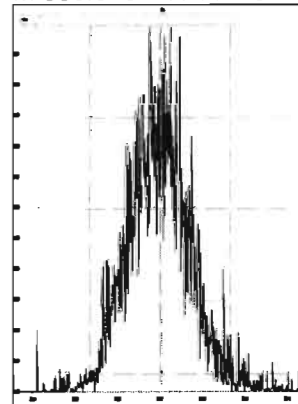
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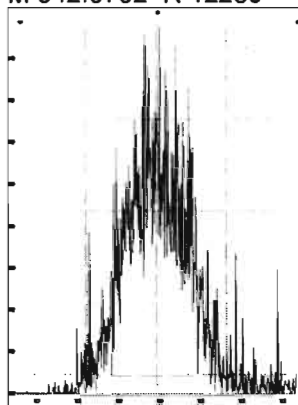
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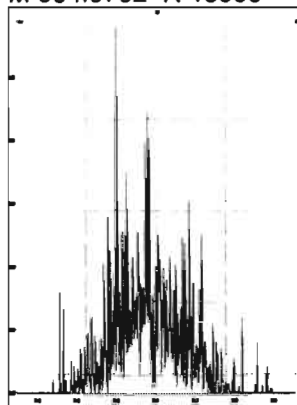
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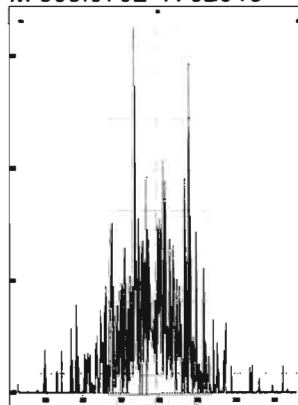
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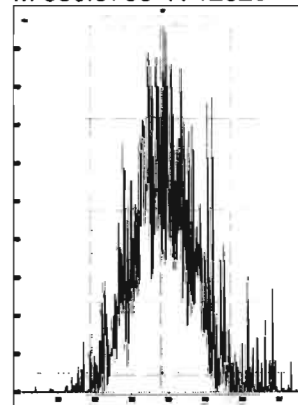
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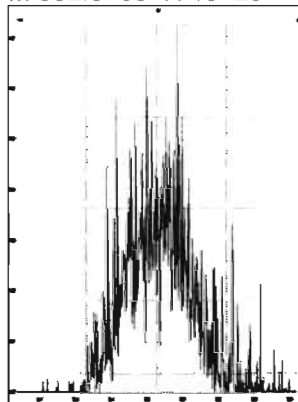
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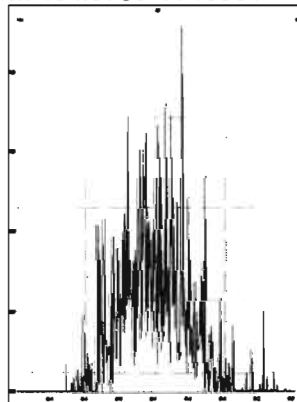
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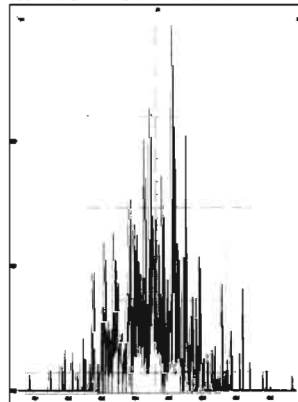
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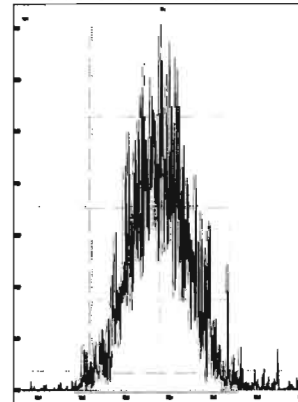
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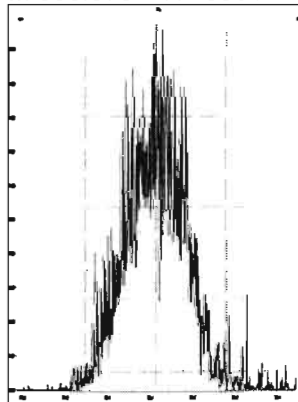
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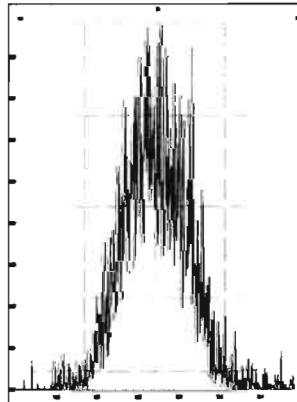
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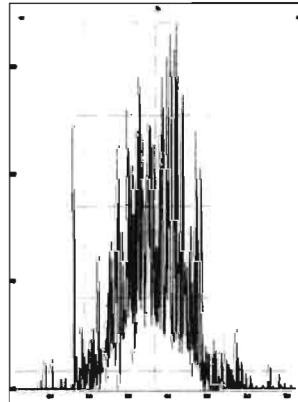
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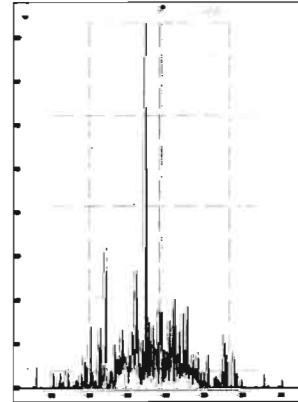
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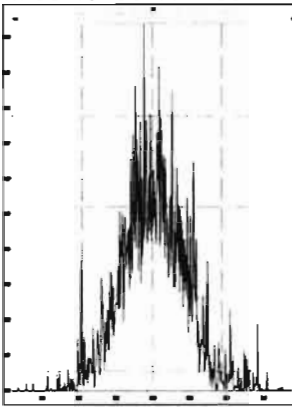


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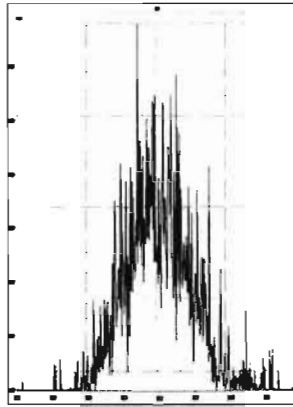


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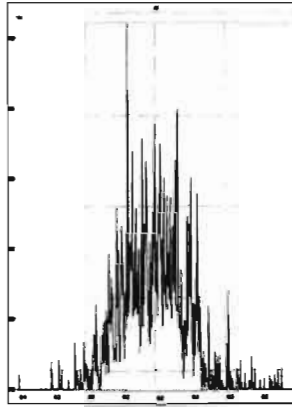
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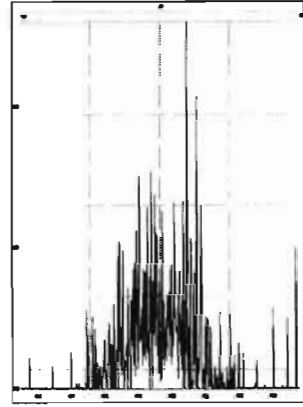
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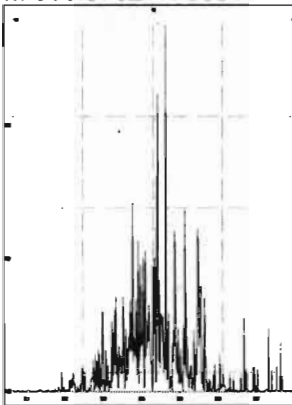
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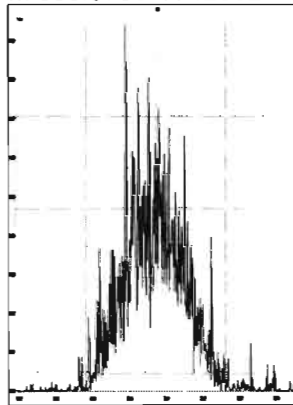
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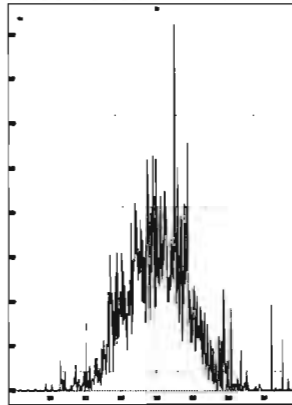
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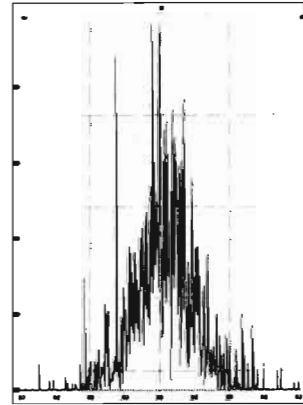
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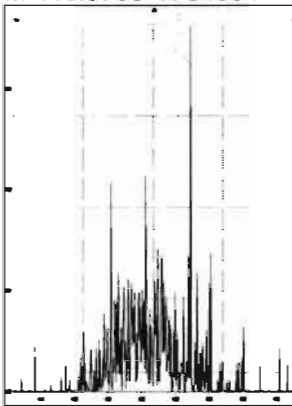
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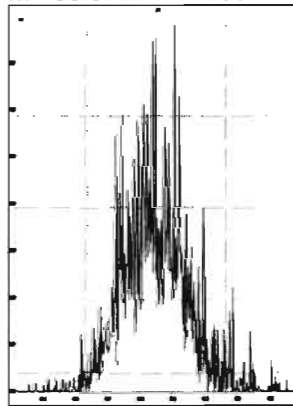
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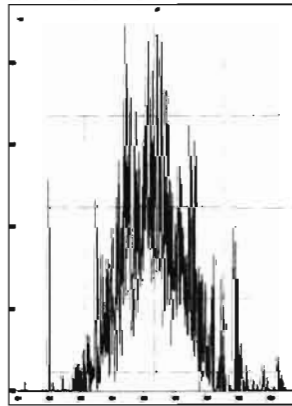
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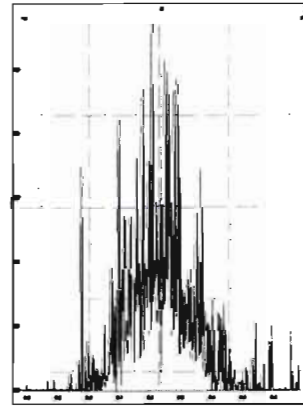
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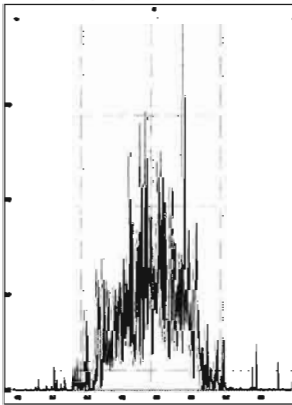
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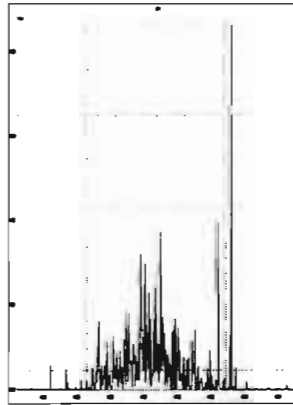
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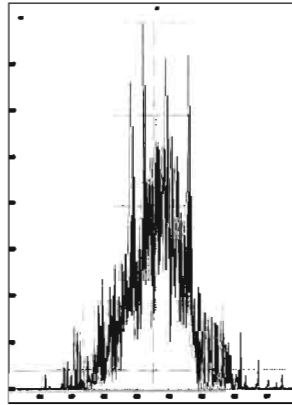
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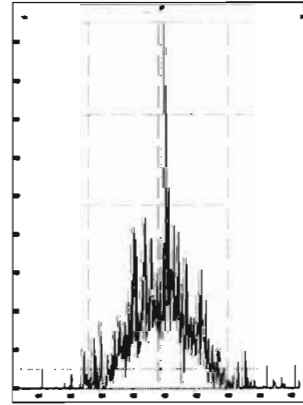
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M 430.9728 R 14329

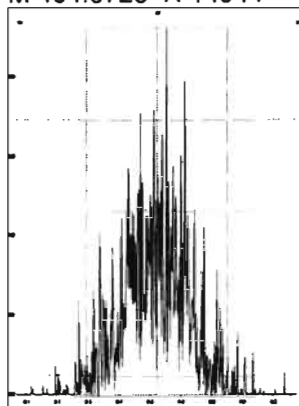


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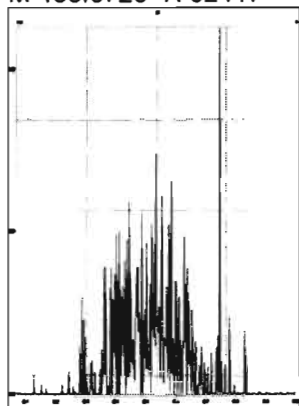


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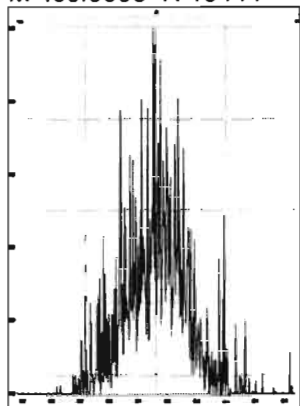
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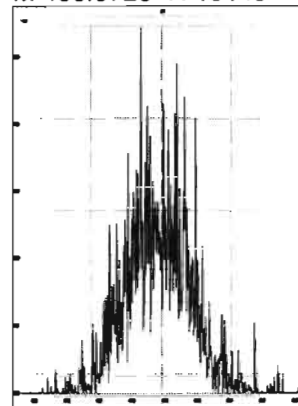
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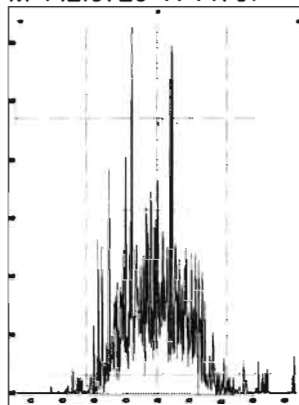
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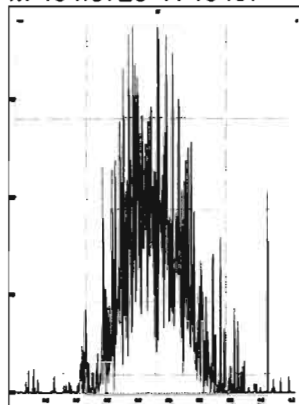
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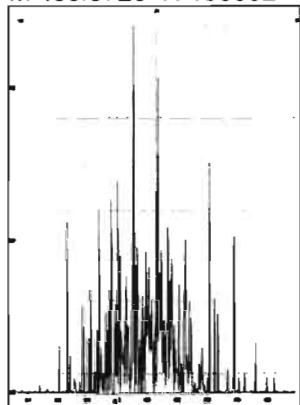
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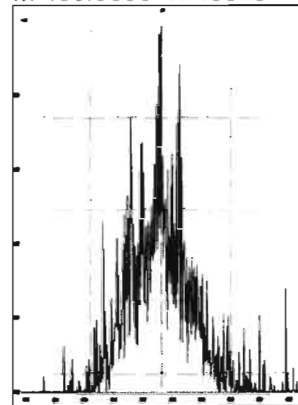
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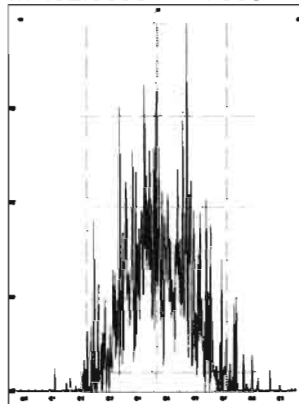
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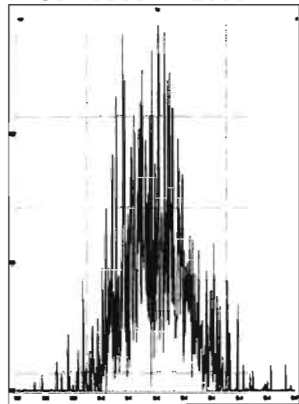
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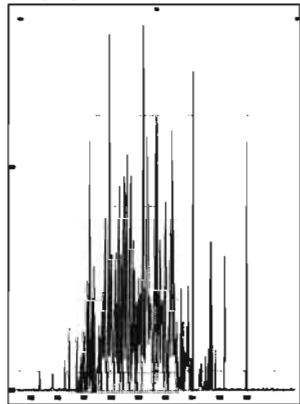
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M 504.9696 R 25584



M 516.9697 R 107142



Dataset: U:\VG12.PRO\Results\201020R1\201020R1-8.qld

Last Altered: Tuesday, October 20, 2020 15:15:37 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 15:16:22 Pacific Daylight Time

GRB 10/20/2020
HN 10/20/2020

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 20 Oct 2020 10:47:39
Calibration: U:\VG12.PRO\CurveDB\vbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 14:36:10

Name: 201020R1_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

#	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	1.37e5	1.40e6	0.74	NO	0.950	26.30	26.30	NO	1.001	1.001	10.363	104	NO
2	2 1,2,3,7,8-PeCDD	4.97e5	1.07e6	0.62	NO	0.885	30.97	30.96	NO	1.000	1.000	52.349	105	NO
3	3 1,2,3,4,7,8-HxCDD	4.14e5	7.58e5	1.30	NO	1.02	34.31	34.29	NO	1.001	1.000	53.693	107	NO
4	4 1,2,3,6,7,8-HxCDD	4.51e5	8.90e5	1.21	NO	0.915	34.40	34.41	NO	1.000	1.001	55.421	111	NO
5	5 1,2,3,7,8,9-HxCDD	4.02e5	8.09e5	1.25	NO	0.934	34.67	34.69	NO	1.000	1.001	53.130	106	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.08e5	6.75e5	1.02	NO	0.870	38.15	38.17	NO	1.000	1.001	52.362	105	NO
7	7 OCDD	5.24e5	1.11e6	0.87	NO	0.872	41.11	41.12	NO	1.000	1.000	108.80	109	NO
8	8 2,3,7,8-TCDF	1.63e5	1.90e6	0.75	NO	0.824	25.60	25.62	NO	1.000	1.001	10.438	104	NO
9	9 1,2,3,7,8-PeCDF	7.63e5	1.57e6	1.57	NO	0.963	29.70	29.71	NO	1.000	1.001	50.613	101	NO
10	10 2,3,4,7,8-PeCDF	8.90e5	1.52e6	1.58	NO	1.07	30.76	30.78	NO	1.000	1.001	54.945	110	NO
11	11 1,2,3,4,7,8-HxCDF	5.48e5	1.04e6	1.22	NO	0.953	33.36	33.38	NO	1.000	1.001	55.545	111	NO
12	12 1,2,3,6,7,8-HxCDF	6.04e5	1.08e6	1.22	NO	1.01	33.50	33.51	NO	1.000	1.000	55.330	111	NO
13	13 2,3,4,6,7,8-HxCDF	5.48e5	1.01e6	1.23	NO	0.991	34.16	34.18	NO	1.000	1.001	54.856	110	NO
14	14 1,2,3,7,8,9-HxCDF	4.44e5	8.60e5	1.23	NO	0.951	35.17	35.18	NO	1.000	1.000	54.262	109	NO
15	15 1,2,3,4,6,7,8-HpCDF	4.29e5	7.84e5	1.01	NO	0.999	36.76	36.77	NO	1.000	1.000	54.767	110	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.47e5	6.01e5	1.01	NO	1.12	38.77	38.78	NO	1.000	1.000	51.464	103	NO
17	17 OCDF	6.03e5	1.28e6	0.88	NO	0.868	41.41	41.41	NO	1.000	1.000	108.21	108	NO
18	18 13C-2,3,7,8-TCDD	1.40e6	1.26e6	0.78	NO	1.11	26.27	26.27	NO	1.029	1.030	100.10	100	NO
19	19 13C-1,2,3,7,8-PeCDD	1.07e6	1.26e6	0.62	NO	0.859	30.91	30.96	NO	1.211	1.213	99.348	99.3	NO
20	20 13C-1,2,3,4,7,8-HxCDD	7.58e5	1.11e6	1.28	NO	0.700	34.26	34.28	NO	1.013	1.014	97.536	97.5	NO
21	21 13C-1,2,3,6,7,8-HxCDD	8.90e5	1.11e6	1.26	NO	0.833	34.39	34.39	NO	1.017	1.017	96.285	96.3	NO
22	22 13C-1,2,3,7,8,9-HxCDD	8.09e5	1.11e6	1.26	NO	0.762	34.66	34.66	NO	1.025	1.025	95.612	95.6	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.75e5	1.11e6	1.05	NO	0.650	38.10	38.15	NO	1.127	1.128	93.625	93.6	NO
24	24 13C-OCDD	1.11e6	1.11e6	0.89	NO	0.539	41.04	41.11	NO	1.214	1.216	184.54	92.3	NO
25	25 13C-2,3,7,8-TCDF	1.90e6	1.96e6	0.78	NO	0.981	25.60	25.59	NO	1.003	1.003	98.983	99.0	NO
26	26 13C-1,2,3,7,8-PeCDF	1.57e6	1.96e6	1.60	NO	0.792	29.66	29.69	NO	1.162	1.163	101.15	101	NO
27	27 13C-2,3,4,7,8-PeCDF	1.52e6	1.96e6	1.59	NO	0.778	30.72	30.76	NO	1.204	1.205	99.698	99.7	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.04e6	1.11e6	0.50	NO	0.954	33.36	33.36	NO	0.987	0.987	97.788	97.8	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.08e6	1.11e6	0.50	NO	1.01	33.50	33.50	NO	0.991	0.991	96.967	97.0	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.01e6	1.11e6	0.52	NO	0.921	34.16	34.16	NO	1.010	1.010	98.529	98.5	NO
31	31 13C-1,2,3,7,8,9-HxCDF	8.60e5	1.11e6	0.51	NO	0.803	35.16	35.17	NO	1.040	1.040	96.452	96.5	NO

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-8.qld

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Printed: Tuesday, October 20, 2020 15:16:22 Pacific Daylight Time

Name: 201020R1_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

#	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	7.84e5	1.11e6	0.44	NO	0.735	36.72	36.75	NO	1.086	1.087	96.055	96.1	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.01e5	1.11e6	0.42	NO	0.568	38.71	38.77	NO	1.145	1.147	95.309	95.3	NO
34	34 13C-OCDF	1.28e6	1.11e6	0.89	NO	0.629	41.33	41.40	NO	1.222	1.225	183.63	91.8	NO
35	35 37Cl-2,3,7,8-TCDD	1.45e5	1.26e6			1.09	26.29	26.29	NO	1.030	1.030	10.596	106	NO
36	36 13C-1,2,3,4-TCDD	1.26e6	1.26e6	0.79	NO	1.00	25.59	25.52	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.96e6	1.96e6	0.80	NO	1.00	24.13	24.06	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.11e6	1.11e6	0.51	NO	1.00	33.84	33.81	NO	1.000	1.000	100.00	100	YES st

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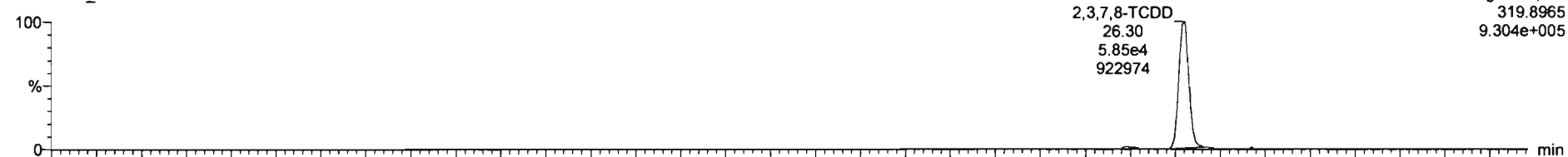
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Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 14:36:10

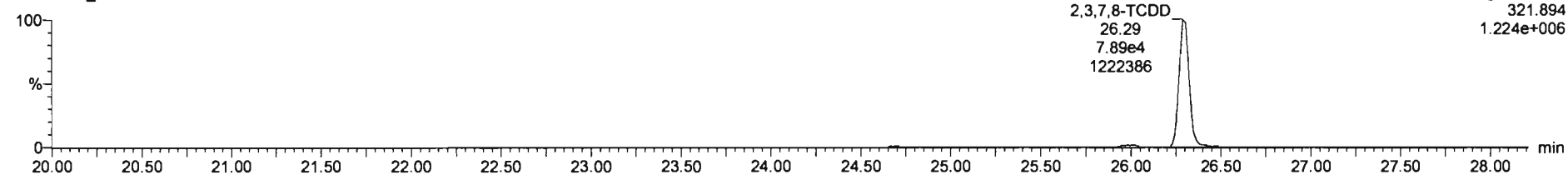
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2,3,7,8-TCDD

201020R1_8

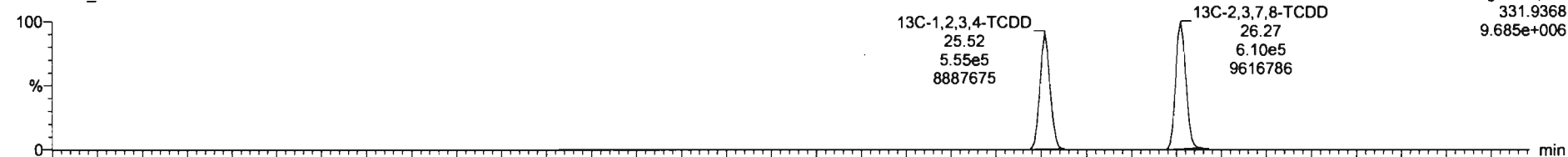


201020R1_8

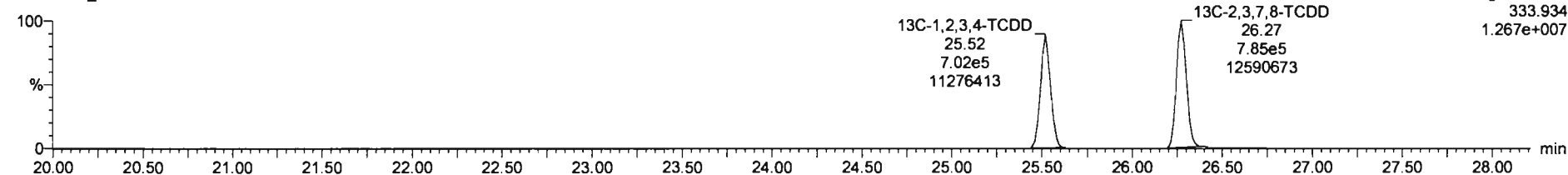


13C-2,3,7,8-TCDD

201020R1_8



201020R1_8



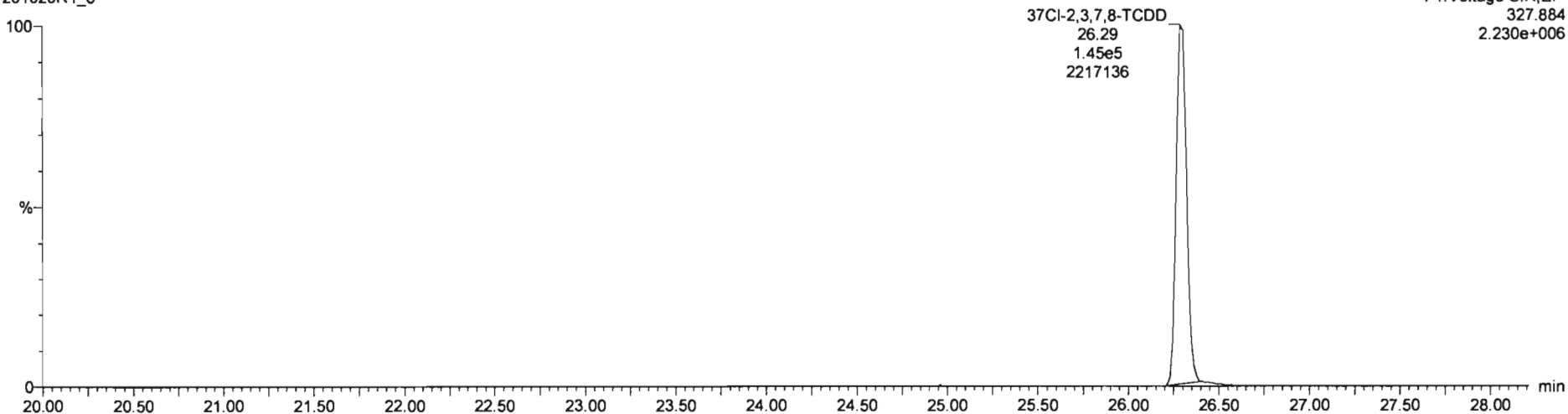
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Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

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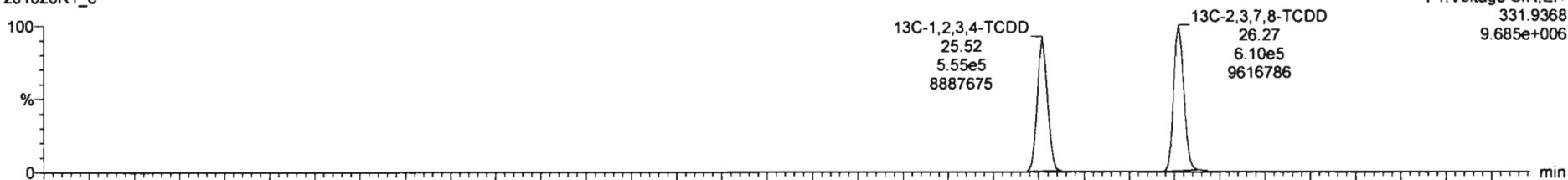
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201020R1_8

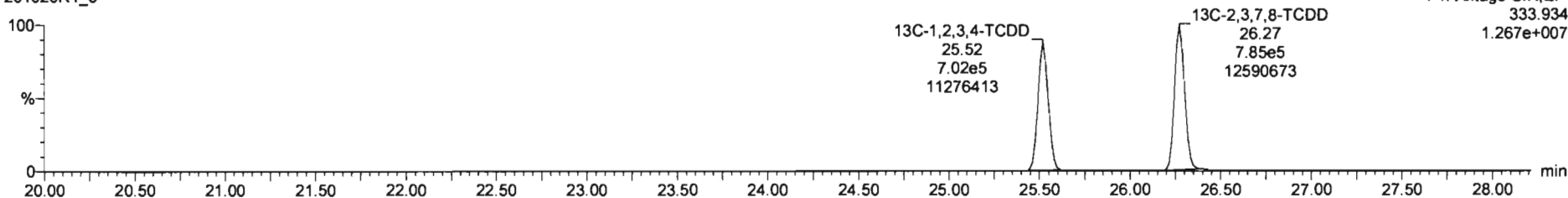


13C-1,2,3,4-TCDD

201020R1_8



201020R1_8



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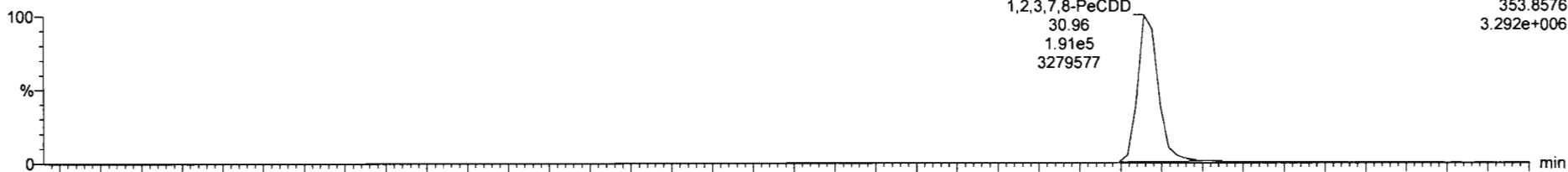
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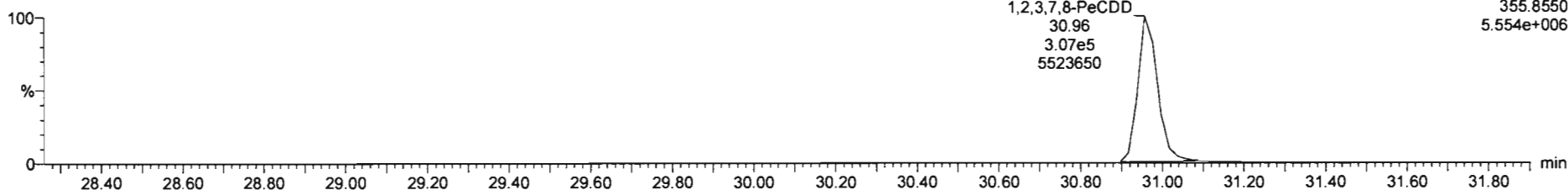
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1,2,3,7,8-PeCDD

201020R1_8

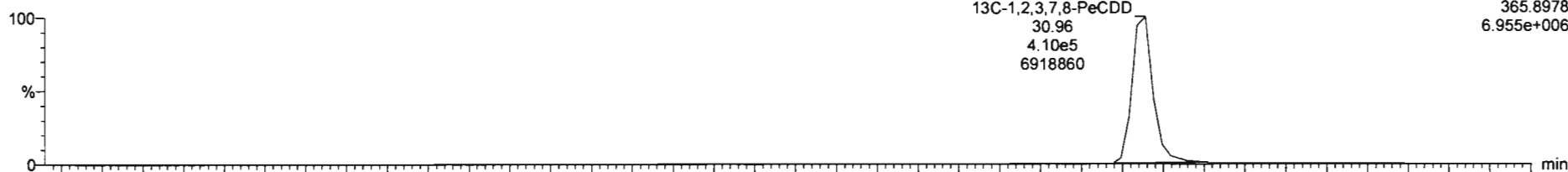


201020R1_8

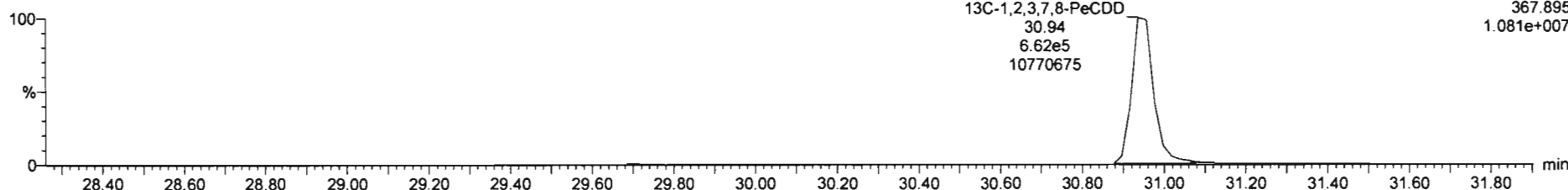


13C-1,2,3,7,8-PeCDD

201020R1_8



201020R1_8



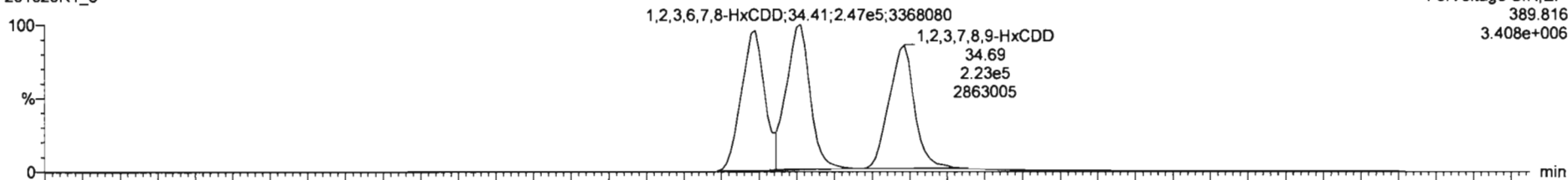
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Name: 201020R1_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

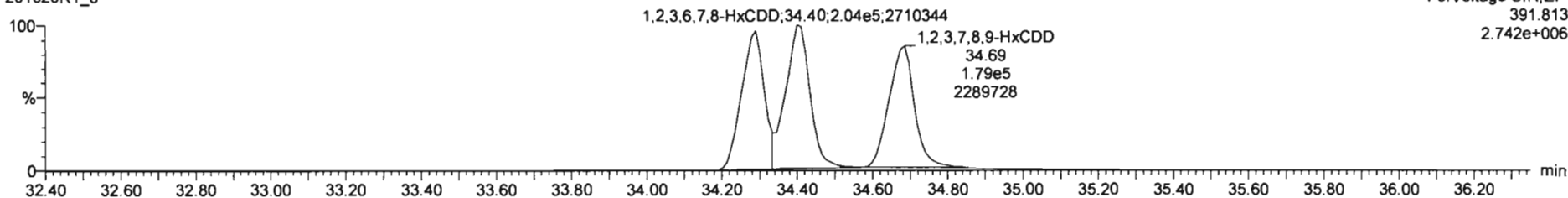
1,2,3,4,7,8-HxCDD

201020R1_8



F3: Voltage SIR, EI+
389.816
3.408e+006

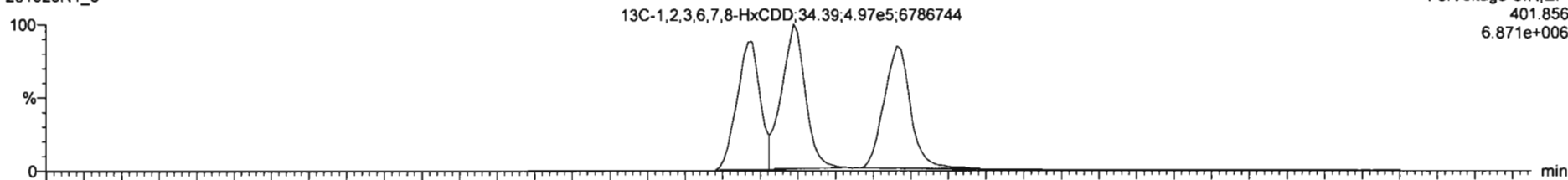
201020R1_8



F3: Voltage SIR, EI+
391.813
2.742e+006

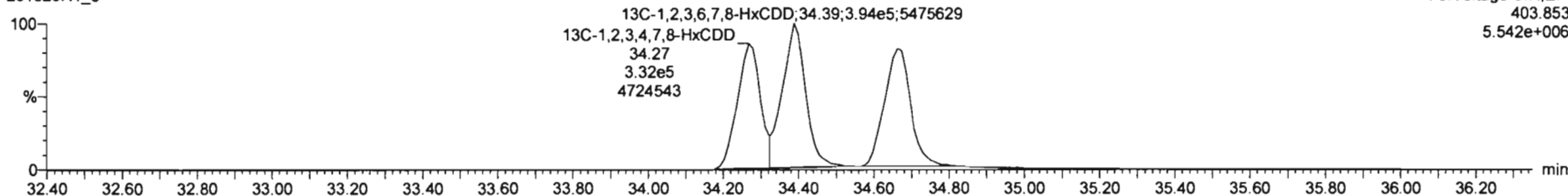
13C-1,2,3,4,7,8-HxCDD

201020R1_8

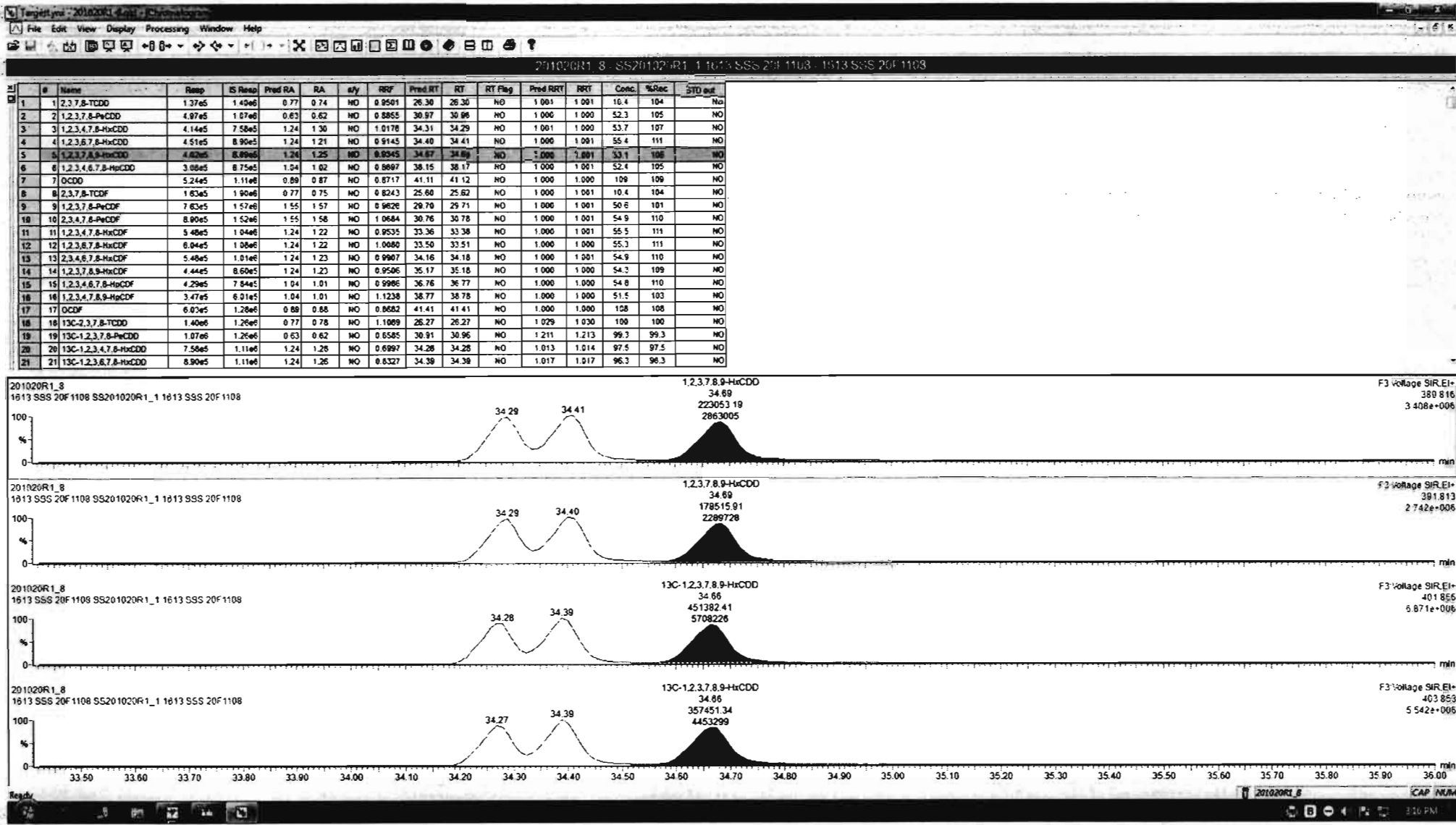


F3: Voltage SIR, EI+
401.856
6.871e+006

201020R1_8



F3: Voltage SIR, EI+
403.853
5.542e+006



Dataset: Untitled

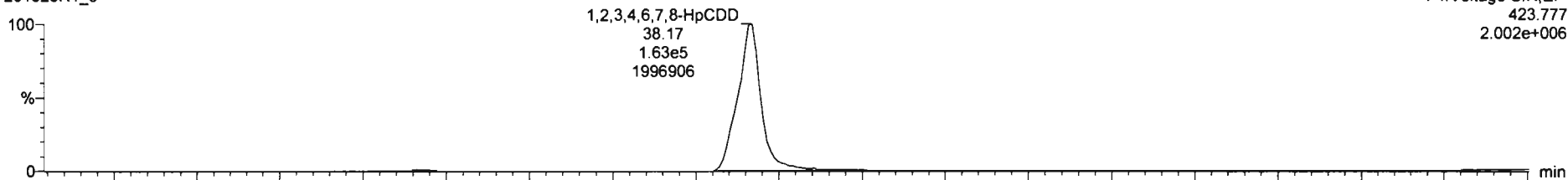
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Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

Name: 201020R1_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

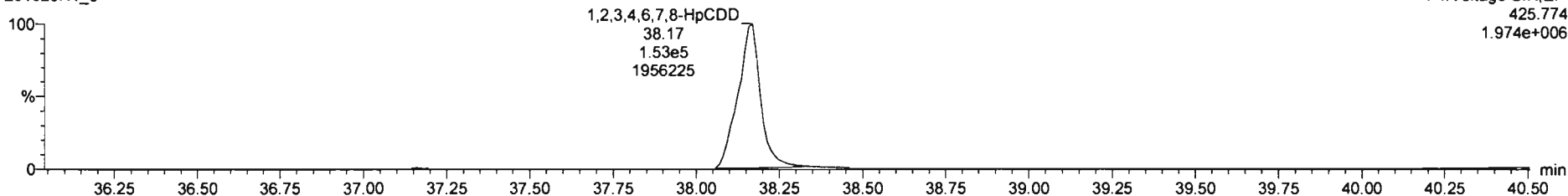
1,2,3,4,6,7,8-HpCDD

201020R1_8



F4:Voltage SIR, EI+
423.777
2.002e+006

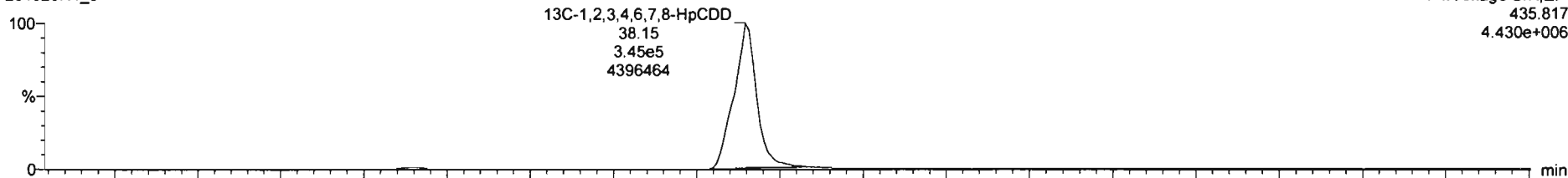
201020R1_8



F4:Voltage SIR, EI+
425.774
1.974e+006

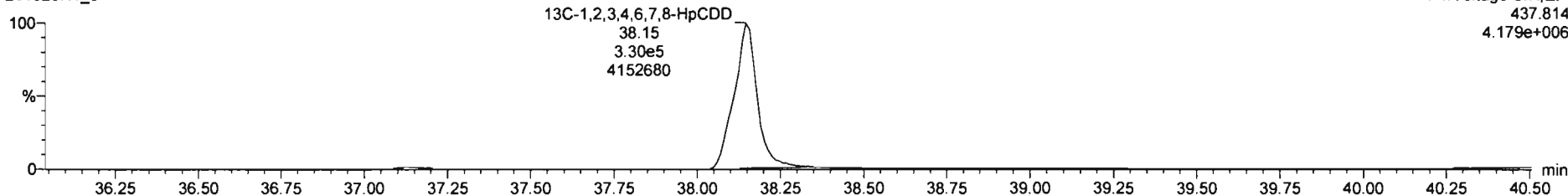
13C-1,2,3,4,6,7,8-HpCDD

201020R1_8

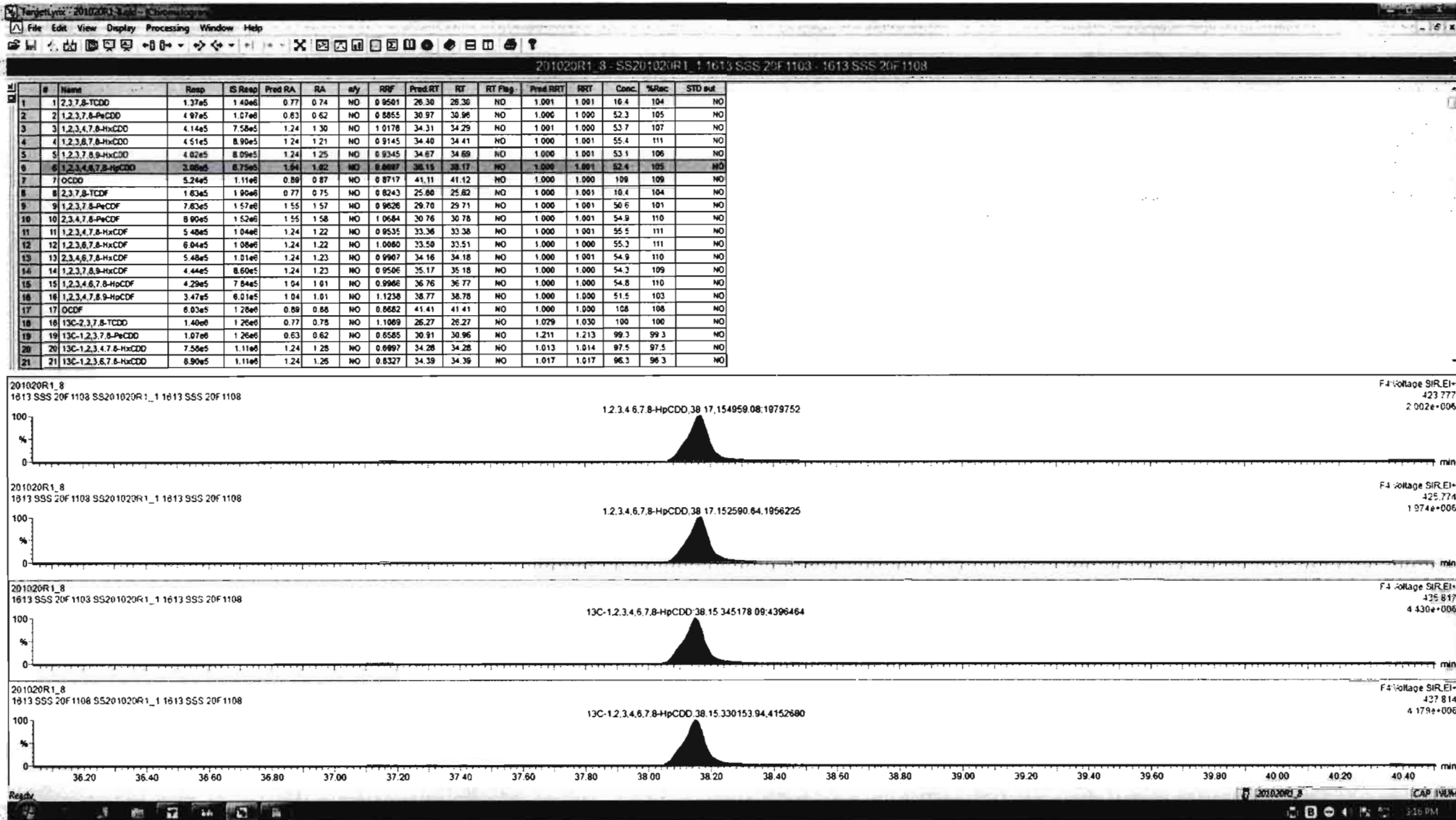


F4:Voltage SIR, EI+
435.817
4.430e+006

201020R1_8



F4:Voltage SIR, EI+
437.814
4.179e+006



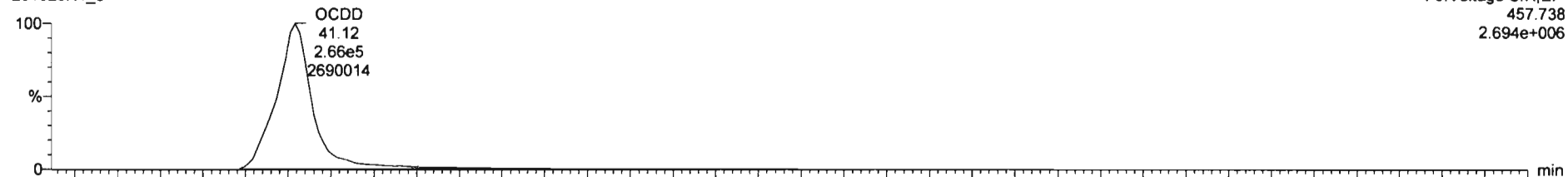
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Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

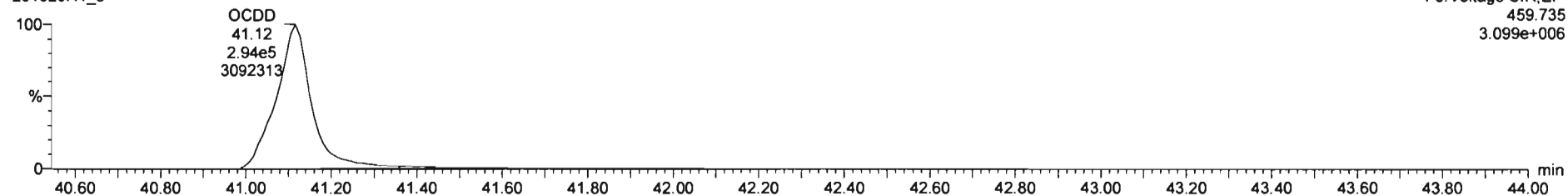
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OCDD

201020R1_8

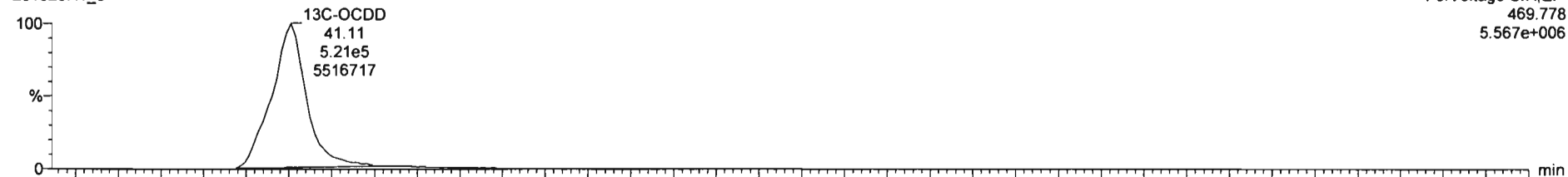


201020R1_8

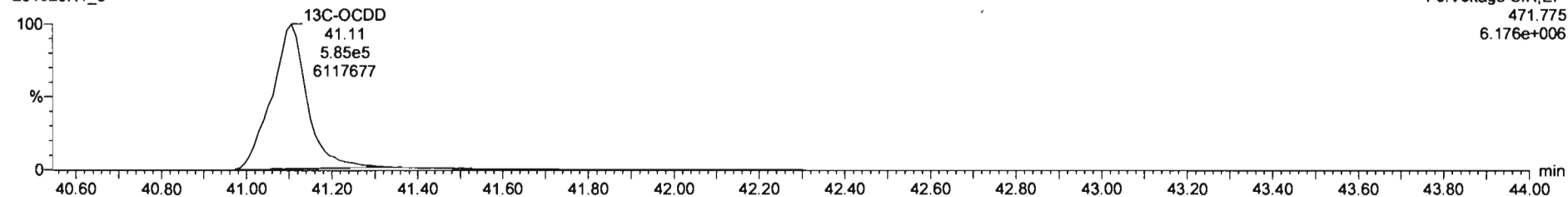


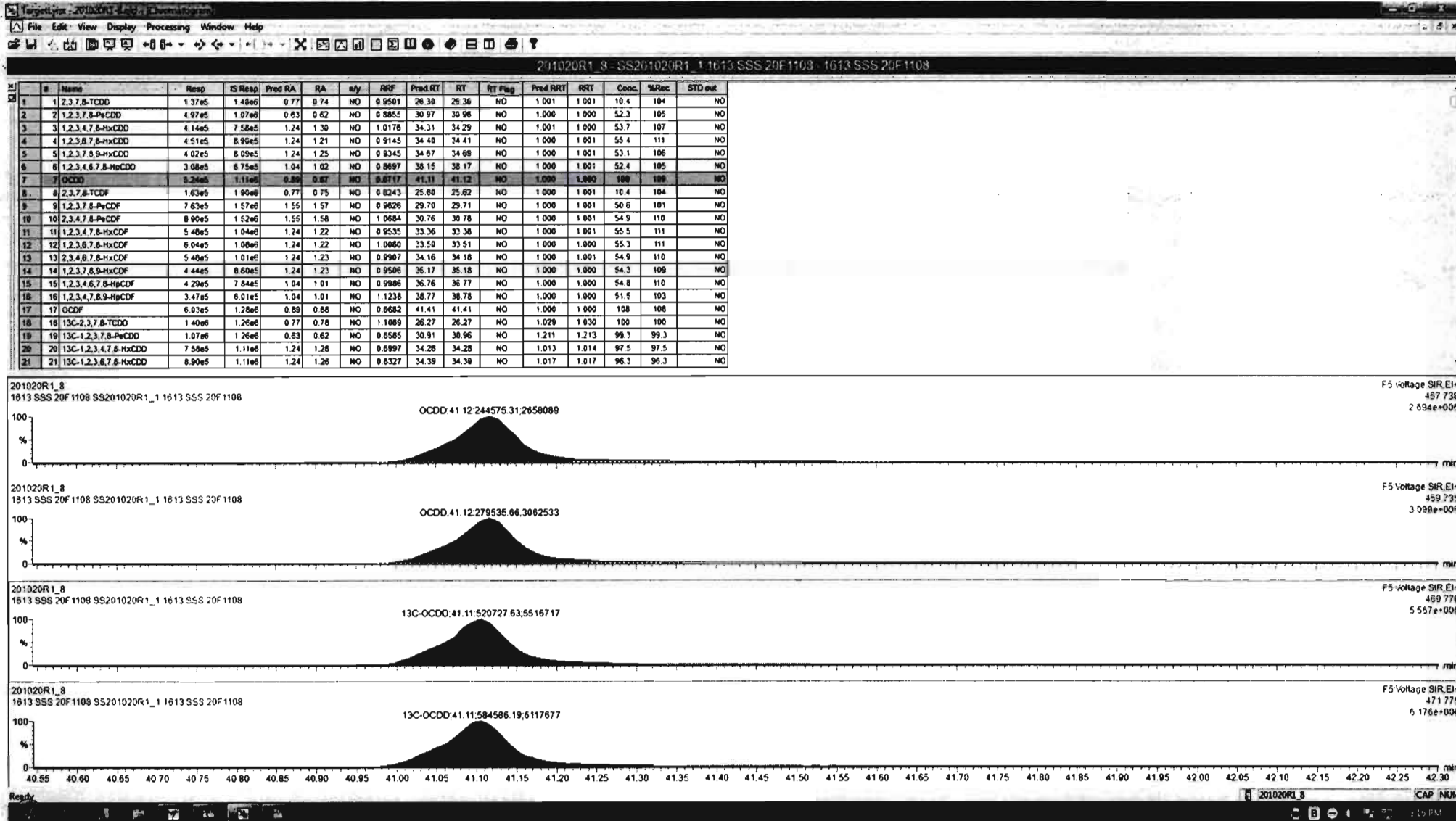
13C-OCDD

201020R1_8



201020R1_8





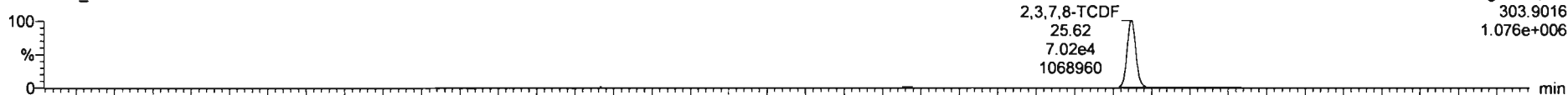
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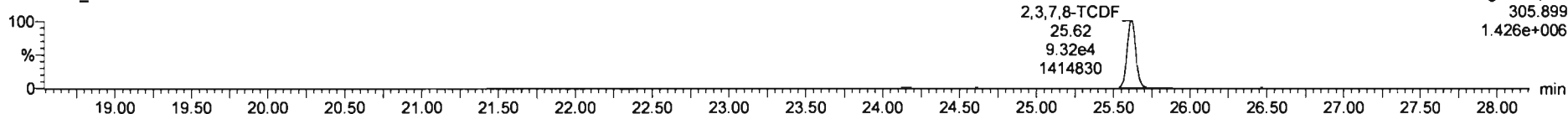
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2,3,7,8-TCDF

201020R1_8

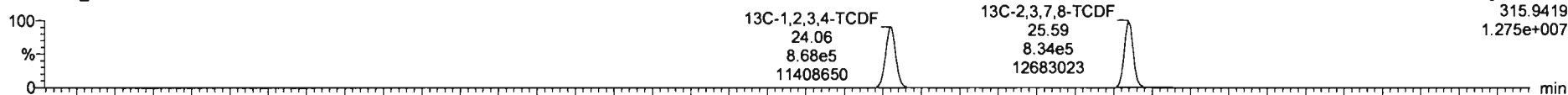


201020R1_8

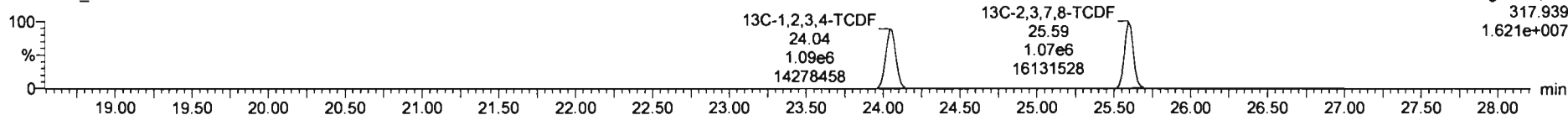


13C-2,3,7,8-TCDF

201020R1_8

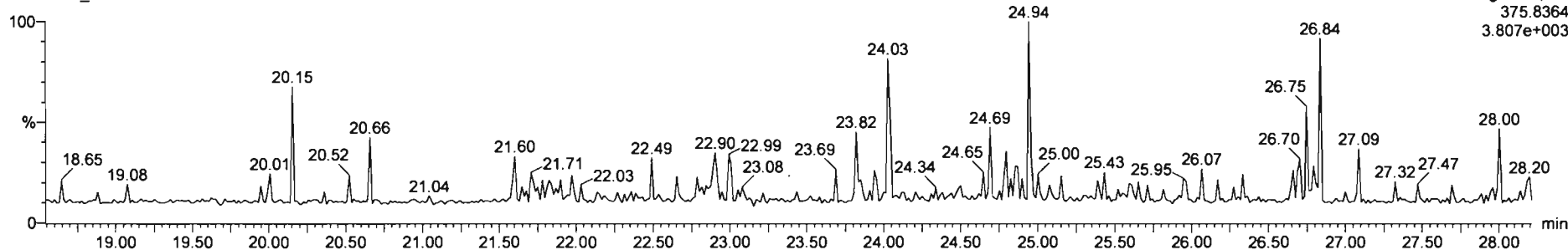


201020R1_8



DPE1

201020R1_8



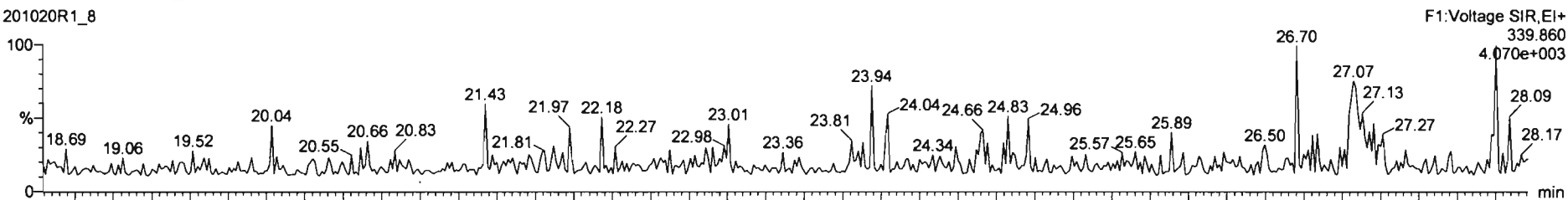
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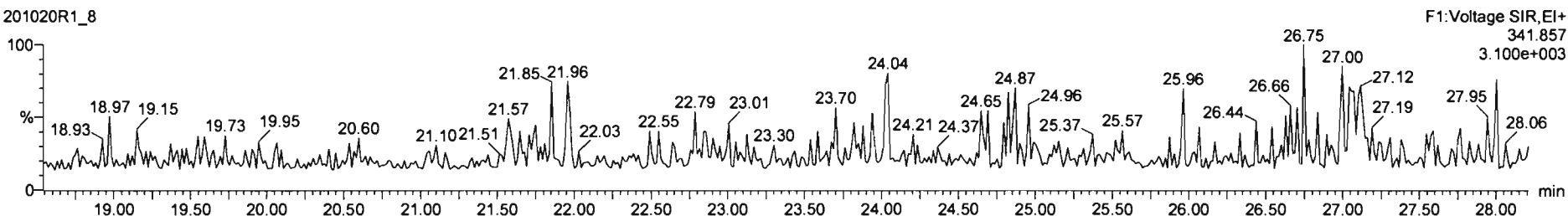
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201020R1_8

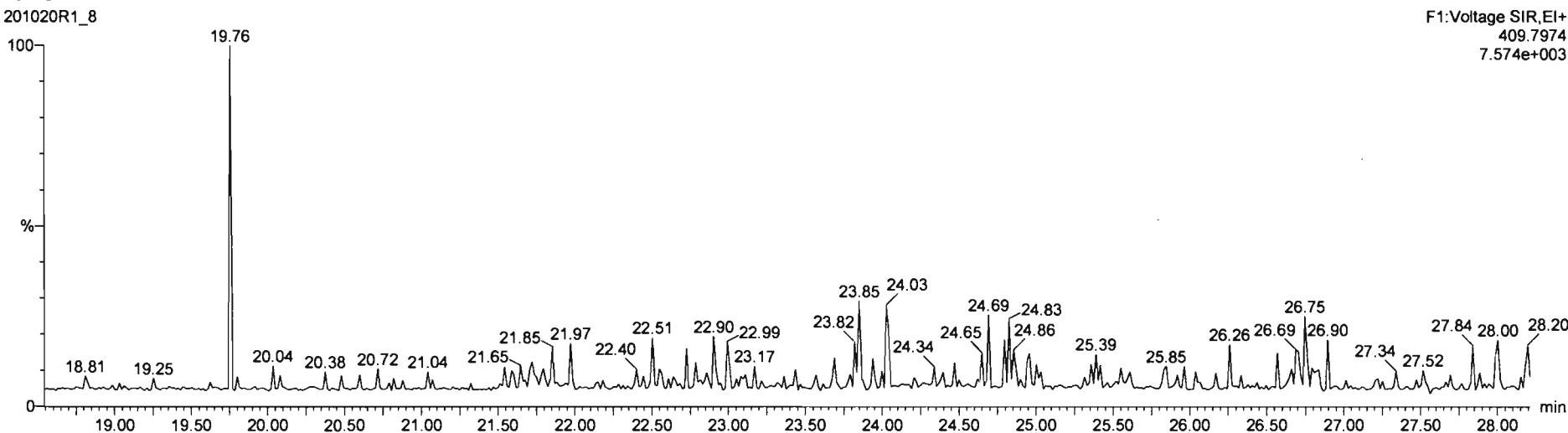


201020R1_8



DPE6

201020R1_8



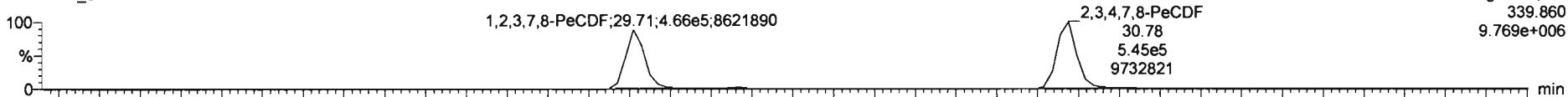
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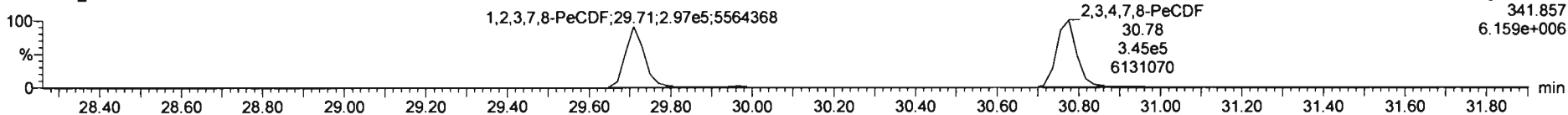
1,2,3,7,8-PeCDF

201020R1_8



F2:Voltage SIR,El+
339.860
9.769e+006

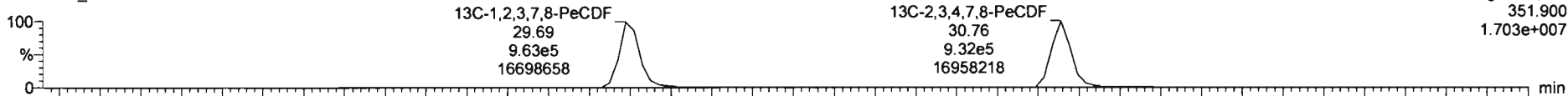
201020R1_8



F2:Voltage SIR,El+
341.857
6.159e+006

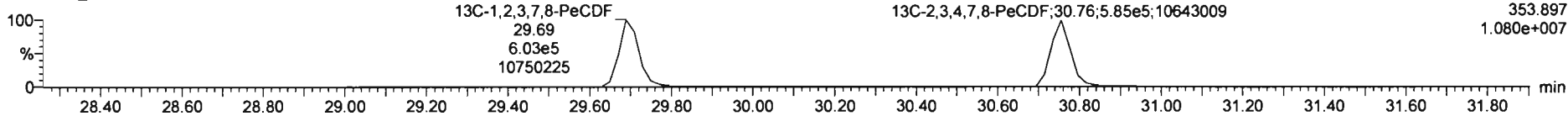
13C-1,2,3,7,8-PeCDF

201020R1_8



F2:Voltage SIR,El+
351.900
1.703e+007

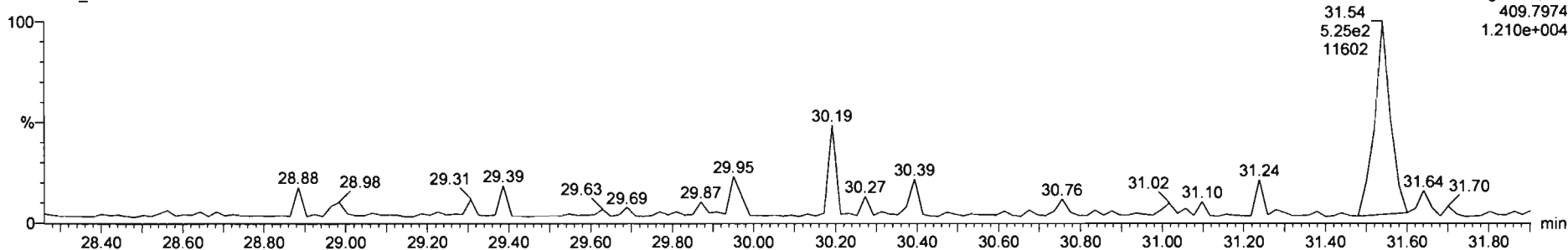
201020R1_8



F2:Voltage SIR,El+
353.897
1.080e+007

DPE2

201020R1_8



F2:Voltage SIR,El+
409.7974
1.210e+004

Dataset: Untitled

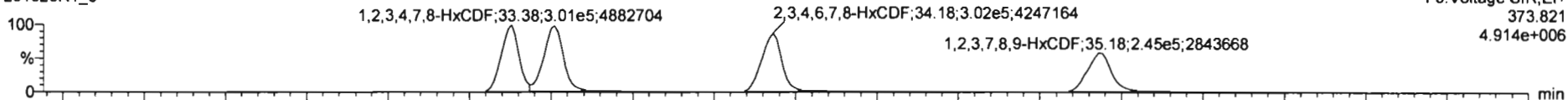
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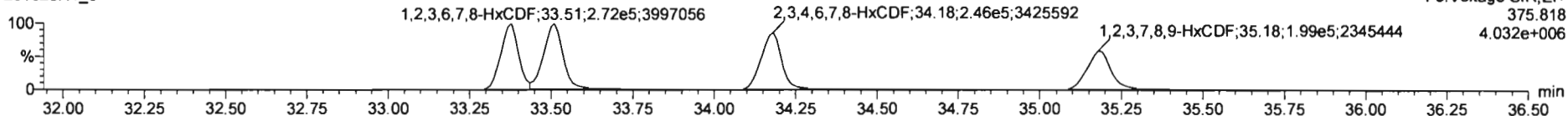
1,2,3,4,7,8-HxCDF

201020R1_8



F3: Voltage SIR, EI+
373.821
4.914e+006

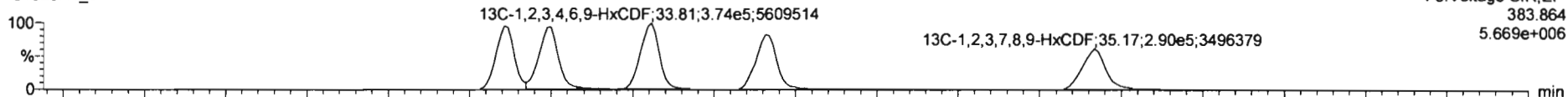
201020R1_8



F3: Voltage SIR, EI+
375.818
4.032e+006

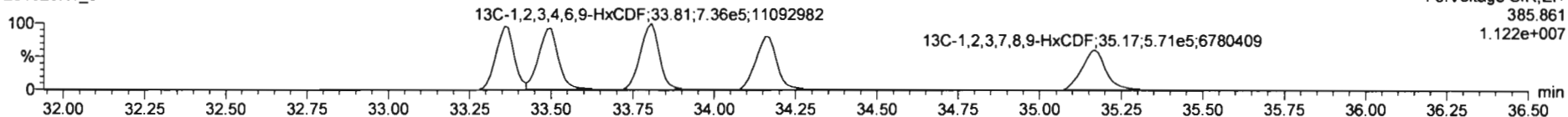
13C-1,2,3,4,7,8-HxCDF

201020R1_8



F3: Voltage SIR, EI+
383.864
5.669e+006

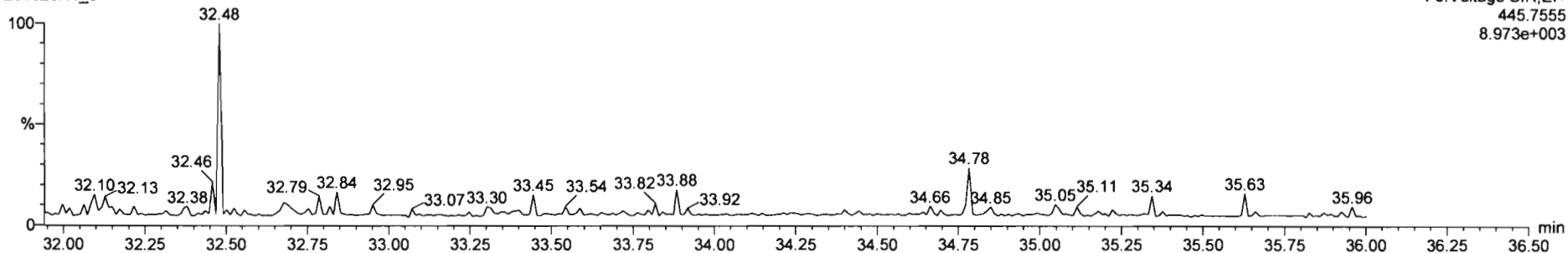
201020R1_8



F3: Voltage SIR, EI+
385.861
1.122e+007

DPE3

201020R1_8



F3: Voltage SIR, EI+
445.7555
8.973e+003

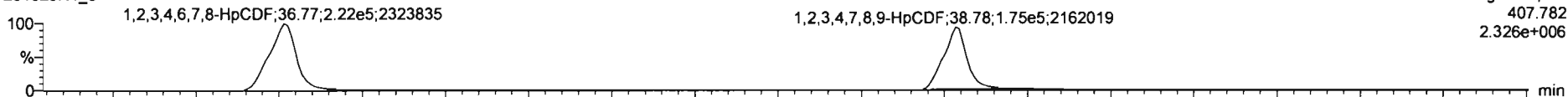
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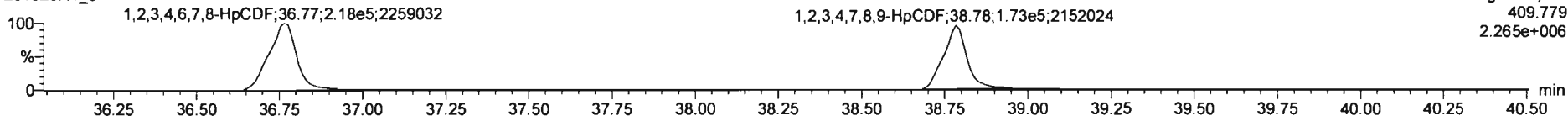
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1,2,3,4,6,7,8-HpCDF

201020R1_8

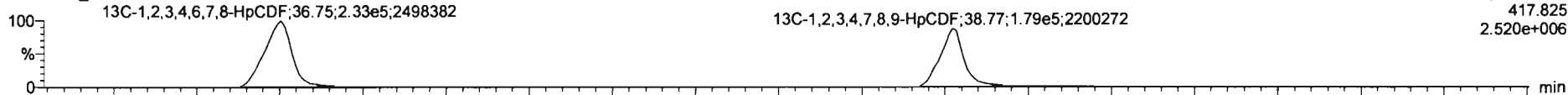


201020R1_8

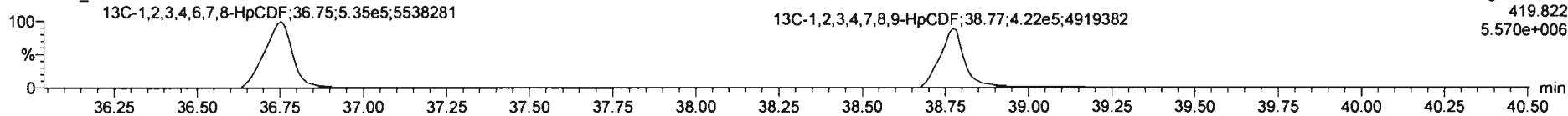


13C-1,2,3,4,6,7,8-HpCDF

201020R1_8

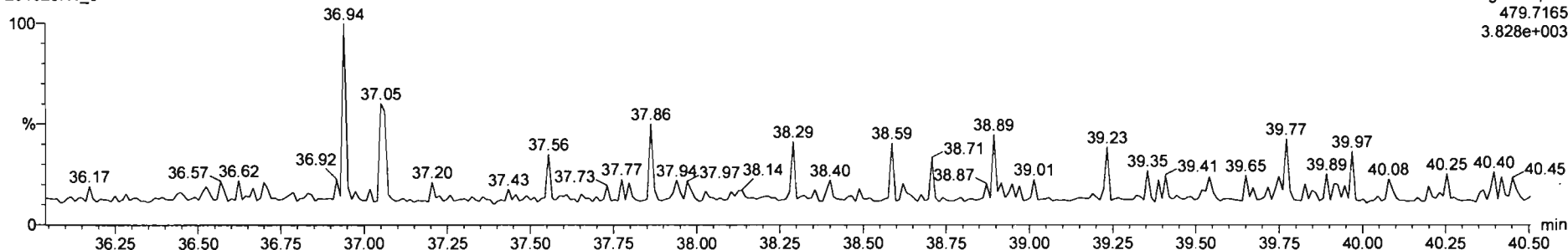


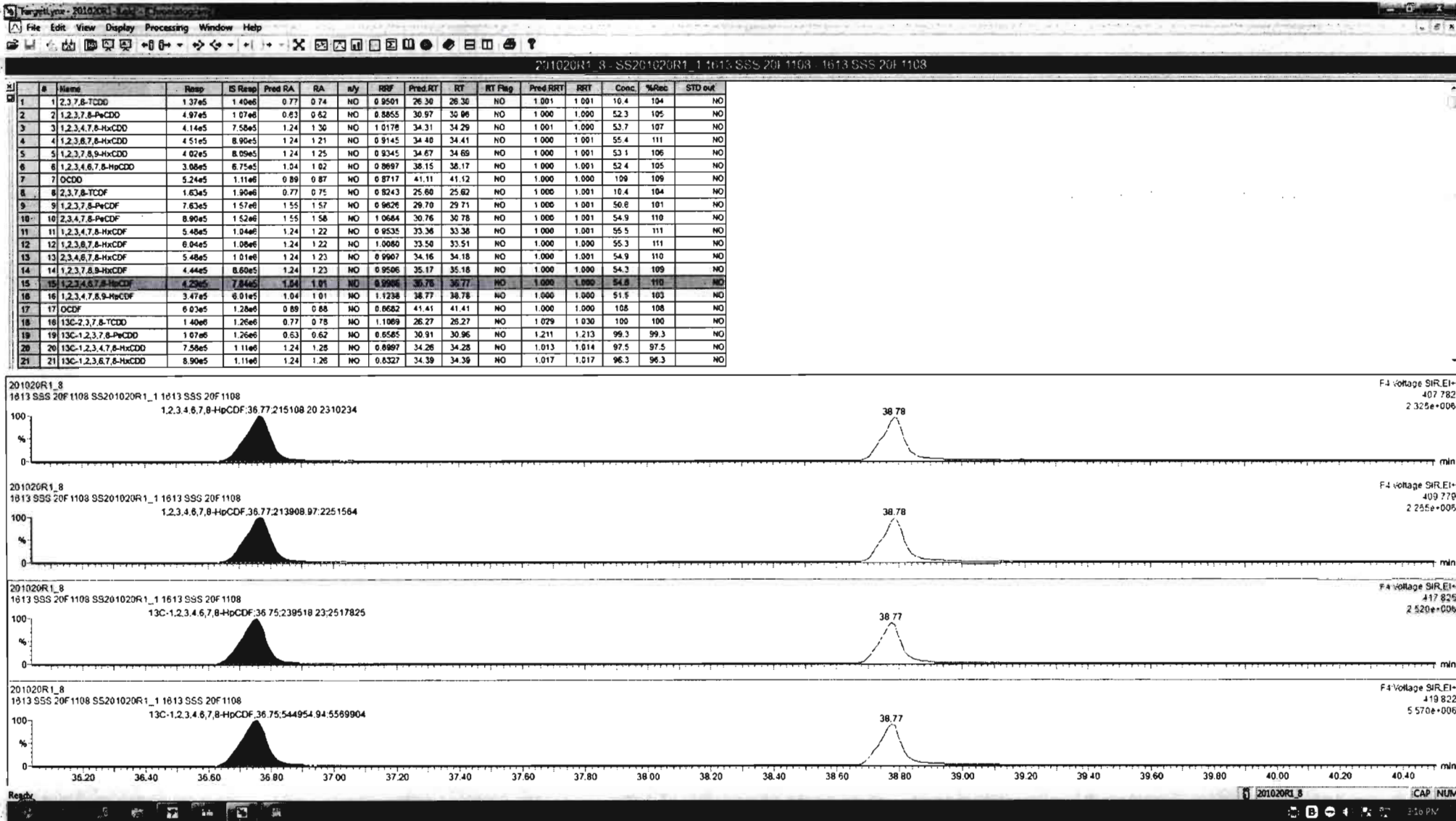
201020R1_8



DPE4

201020R1_8



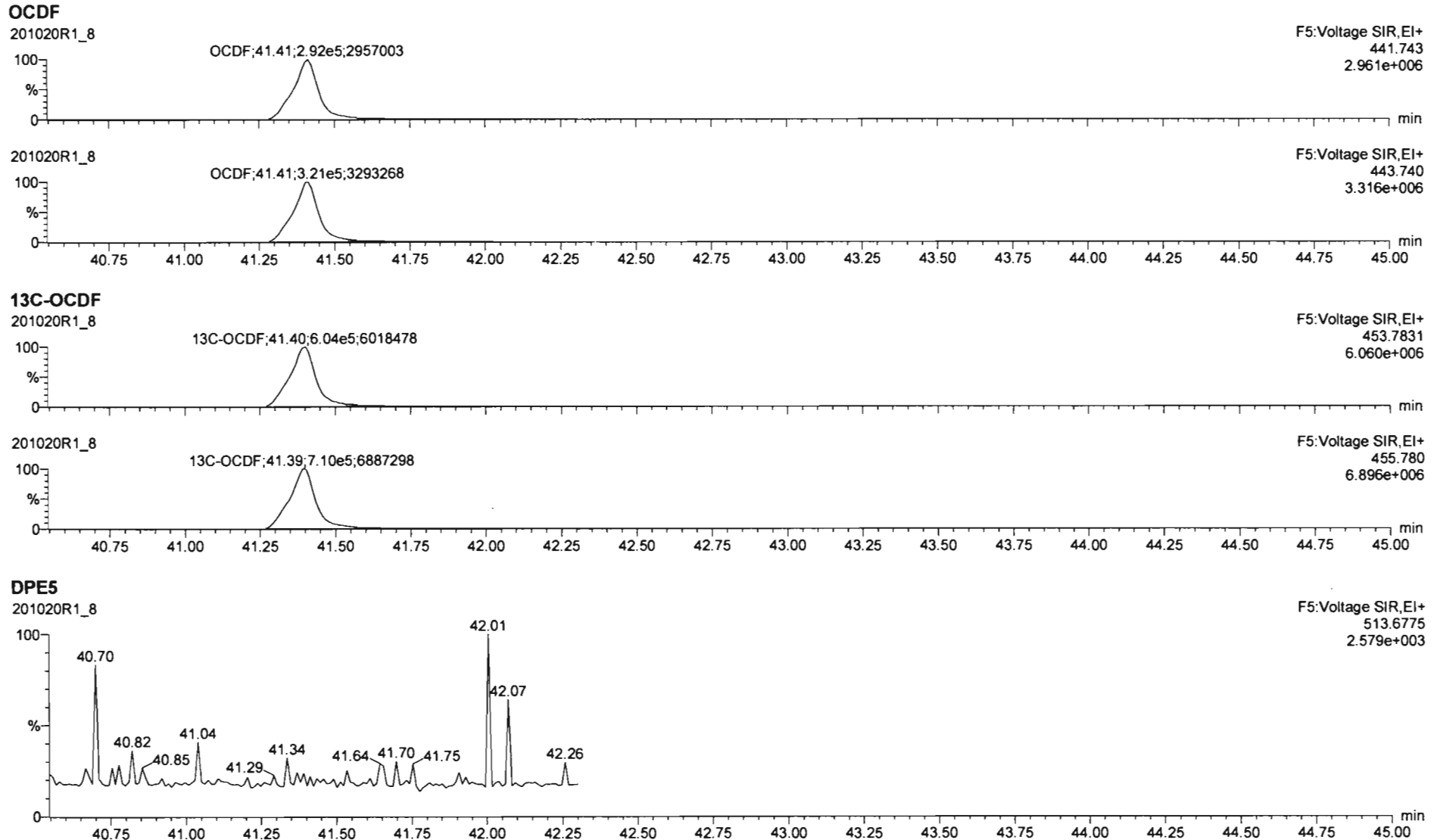


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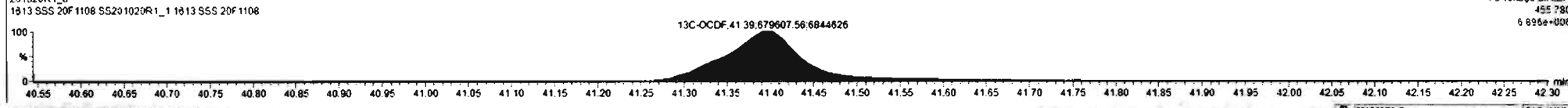
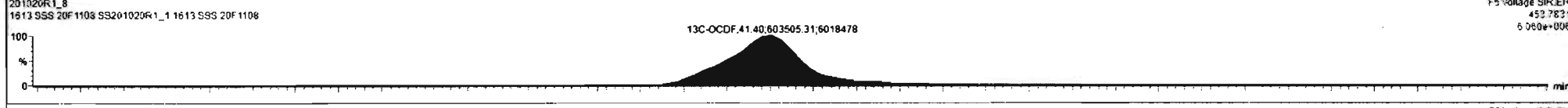
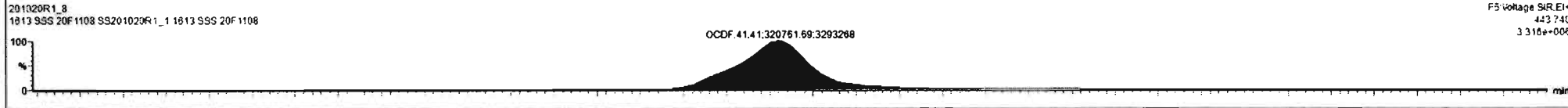
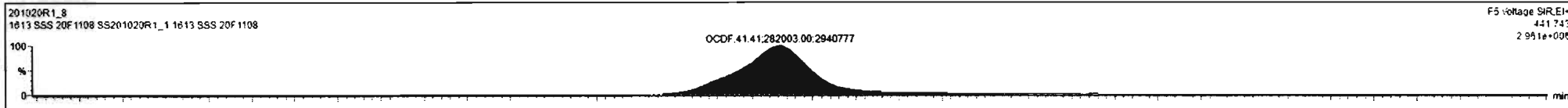
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#	Name	Resp	IS Resp	Pred RA	RA	aly	RPF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	1.37e5	1.40e6	0.77	0.74	NO	0.9501	26.30	26.30	NO	1.001	1.001	16.4	104	NO
2	1,2,3,7,8-PeCDD	4.97e5	1.07e6	0.63	0.62	NO	0.8855	30.97	30.96	NO	1.000	1.000	52.3	105	NO
3	1,2,3,4,7,8-HxCDD	4.14e5	7.58e5	1.24	1.30	NO	1.0178	34.31	34.29	NO	1.001	1.000	53.7	107	NO
4	1,2,3,6,7,8-HxCDD	4.51e5	8.90e5	1.24	1.21	NO	0.9145	34.40	34.41	NO	1.000	1.001	55.4	111	NO
5	1,2,3,7,8,9-HxCDD	4.02e5	8.09e5	1.24	1.25	NO	0.9345	34.67	34.69	NO	1.000	1.001	53.1	106	NO
6	1,2,3,4,6,7,8-HpCDD	3.08e5	6.75e5	1.04	1.02	NO	0.8697	38.15	38.17	NO	1.000	1.001	52.4	105	NO
7	OCDF	5.24e5	1.11e6	0.89	0.87	NO	0.8717	41.11	41.12	NO	1.000	1.000	109	109	NO
8	1,2,3,7,8-TCDF	1.63e5	1.90e6	0.77	0.75	NO	0.8243	25.88	25.62	NO	1.000	1.001	10.4	104	NO
9	1,2,3,7,8-PeCDF	7.63e5	1.57e6	1.55	1.57	NO	0.9826	29.70	29.71	NO	1.000	1.001	50.6	101	NO
10	1,2,3,4,7,8-PeCDF	8.90e5	1.52e6	1.55	1.58	NO	1.0684	30.76	30.78	NO	1.000	1.001	54.9	110	NO
11	1,2,3,4,7,8-HxCDF	5.48e5	1.04e6	1.24	1.22	NO	0.9535	33.36	33.38	NO	1.000	1.001	55.5	111	NO
12	1,2,3,6,7,8-HxCDF	6.04e5	1.08e6	1.24	1.22	NO	1.0080	33.50	33.51	NO	1.000	1.000	55.3	111	NO
13	1,2,3,4,6,7,8-HxCDF	5.48e5	1.01e6	1.24	1.23	NO	0.9907	34.16	34.18	NO	1.000	1.001	54.9	110	NO
14	1,2,3,7,8,9-HxCDF	4.44e5	8.60e5	1.24	1.23	NO	0.9506	35.17	35.18	NO	1.000	1.000	54.3	109	NO
15	1,2,3,4,6,7,8-HpCDF	4.29e5	7.84e5	1.04	1.01	NO	0.9086	36.76	36.77	NO	1.000	1.000	54.8	110	NO
16	1,2,3,4,7,8,9-HpCDF	3.47e5	6.91e5	1.04	1.01	NO	1.1238	38.77	38.78	NO	1.000	1.000	51.5	103	NO
17	OCDF	8.85e5	1.28e6	0.89	0.88	NO	0.8852	41.41	41.41	NO	1.000	1.000	108	108	NO
18	13C-1,2,3,7,8-TCDD	1.40e6	1.26e6	0.77	0.78	NO	1.1089	26.27	26.27	NO	1.029	1.030	100	100	NO
19	13C-1,2,3,7,8-PeCDD	1.07e6	1.26e6	0.63	0.62	NO	0.8585	30.91	30.96	NO	1.211	1.213	96.3	99.3	NO
20	13C-1,2,3,4,7,8-HxCDD	7.58e5	1.11e6	1.24	1.26	NO	0.8997	34.26	34.28	NO	1.013	1.014	97.5	97.5	NO
21	13C-1,2,3,6,7,8-HxCDD	6.90e5	1.11e6	1.24	1.26	NO	0.8327	34.39	34.39	NO	1.017	1.017	96.3	96.3	NO



Dataset: Untitled

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