

December 08, 2020

Vista Work Order No. 2002436

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 10, 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. 2002436

Case Narrative

Sample Condition on Receipt:

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

Analytical Notes:

EPA Method 1613B

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

Holding Times

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

Quality Control

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

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

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

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2002436-01	USMPDI-027SC-A-01-02-201106	06-Nov-20 16:40	10-Nov-20 10:05	Amber Glass, 120 mL
2002436-02	USMPDI-027SC-A-02-03-201106	06-Nov-20 16:40	10-Nov-20 10:05	Amber Glass, 120 mL
2002436-03	USMPDI-027SC-A-03-04-201106	06-Nov-20 16:40	10-Nov-20 10:05	Amber Glass, 120 mL
2002436-04	USMPDI-027SC-A-04-05-201106	06-Nov-20 16:40	10-Nov-20 10:05	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0K0129 Date Extracted: 16-Nov-2020 15:37		Lab Sample: B0K0129-BLK1 Date Analyzed: 24-Nov-20 14:23 Column: ZB-DIOXIN					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0488			IS 13C-2,3,7,8-TCDD	83.6	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0769			13C-1,2,3,7,8-PeCDD	80.5	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.0872			13C-1,2,3,4,7,8-HxCDD	77.6	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.0892			13C-1,2,3,6,7,8-HxCDD	79.8	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.0997			13C-1,2,3,7,8,9-HxCDD	77.4	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.119			13C-1,2,3,4,6,7,8-HpCDD	73.3	23 - 140		
OCDD	ND	0.252			13C-OCDD	61.6	17 - 157		
2,3,7,8-TCDF	ND	0.0326			13C-2,3,7,8-TCDF	83.4	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0455			13C-1,2,3,7,8-PeCDF	82.4	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0370			13C-2,3,4,7,8-PeCDF	83.2	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0645			13C-1,2,3,4,7,8-HxCDF	79.5	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0652			13C-1,2,3,6,7,8-HxCDF	78.8	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0765			13C-2,3,4,6,7,8-HxCDF	76.8	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.119			13C-1,2,3,7,8,9-HxCDF	78.5	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.104			13C-1,2,3,4,6,7,8-HpCDF	72.2	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.111			13C-1,2,3,4,7,8,9-HpCDF	69.3	26 - 138		
OCDF	0.327			J	13C-OCDF	61.5	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	94.5	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.000098		
TOTALS									
Total TCDD	ND	0.0488							
Total PeCDD	ND	0.0769							
Total HxCDD	ND	0.0997							
Total HpCDD	ND	0.119							
Total TCDF	ND	0.0326							
Total PeCDF	ND	0.0455							
Total HxCDF	ND	0.119							
Total HpCDF	ND	0.111							

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: B0K0129	Lab Sample: B0K0129-BS1					
Sample Size: 10.0 g	Date Extracted: 16-Nov-2020 15:37	Date Analyzed: 24-Nov-20 12:43	Column: ZB-DIOXIN				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	21.7	20.0	108	67 - 158	IS 13C-2,3,7,8-TCDD	88.0	20 - 175
1,2,3,7,8-PeCDD	115	100	115	70 - 142	13C-1,2,3,7,8-PeCDD	83.9	21 - 227
1,2,3,4,7,8-HxCDD	113	100	113	70 - 164	13C-1,2,3,4,7,8-HxCDD	82.3	21 - 193
1,2,3,6,7,8-HxCDD	107	100	107	76 - 134	13C-1,2,3,6,7,8-HxCDD	82.6	25 - 163
1,2,3,7,8,9-HxCDD	109	100	109	64 - 162	13C-1,2,3,7,8,9-HxCDD	84.3	21 - 193
1,2,3,4,6,7,8-HpCDD	107	100	107	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	79.3	26 - 166
OCDD	209	200	105	78 - 144	13C-OCDD	69.8	13 - 199
2,3,7,8-TCDF	19.8	20.0	98.8	75 - 158	13C-2,3,7,8-TCDF	87.2	22 - 152
1,2,3,7,8-PeCDF	106	100	106	80 - 134	13C-1,2,3,7,8-PeCDF	86.1	21 - 192
2,3,4,7,8-PeCDF	107	100	107	68 - 160	13C-2,3,4,7,8-PeCDF	87.1	13 - 328
1,2,3,4,7,8-HxCDF	105	100	105	72 - 134	13C-1,2,3,4,7,8-HxCDF	84.6	19 - 202
1,2,3,6,7,8-HxCDF	104	100	104	84 - 130	13C-1,2,3,6,7,8-HxCDF	82.7	21 - 159
2,3,4,6,7,8-HxCDF	104	100	104	70 - 156	13C-2,3,4,6,7,8-HxCDF	81.7	22 - 176
1,2,3,7,8,9-HxCDF	104	100	104	78 - 130	13C-1,2,3,7,8,9-HxCDF	84.0	17 - 205
1,2,3,4,6,7,8-HpCDF	105	100	105	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	75.0	21 - 158
1,2,3,4,7,8,9-HpCDF	102	100	102	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	73.4	20 - 186
OCDF	209	200	105	63 - 170	13C-OCDF	68.2	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	99.5	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: Method Blank	EPA Method 1613B
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Matrix: Solid	QC Batch: B0K0172	Lab Sample: B0K0172-BLK1
Sample Size: 10.0 g	Date Extracted: 19-Nov-2020 12:50	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 Sample Size: 10.0 g		QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50		Lab Sample: B0K0172-BS1 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-027SC-A-01-02-201106 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002436-01 Date Received: 10-Nov-2020 10:08
Project: GascoSiltronic: US Moorings	Sample Size: 11.5 g	QC Batch: B0K0129 Date Extracted: 16-Nov-2020 15:37
Date Collected: 06-Nov-2020 16:40	% Solids: 88.3	Date Analyzed: 24-Nov-20 18:53 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0488			IS 13C-2,3,7,8-TCDD	104	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0841			13C-1,2,3,7,8-PeCDD	100	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.109			13C-1,2,3,4,7,8-HxCDD	95.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.107			13C-1,2,3,6,7,8-HxCDD	94.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.125			13C-1,2,3,7,8,9-HxCDD	97.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.96			J	13C-1,2,3,4,6,7,8-HpCDD	91.4	23 - 140	
OCDD	23.9				13C-OCDD	85.1	17 - 157	
2,3,7,8-TCDF	ND	0.0325			13C-2,3,7,8-TCDF	106	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0293			13C-1,2,3,7,8-PeCDF	103	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0257			13C-2,3,4,7,8-PeCDF	107	21 - 178	
1,2,3,4,7,8-HxCDF	0.151			J	13C-1,2,3,4,7,8-HxCDF	97.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0584			13C-1,2,3,6,7,8-HxCDF	94.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0669			13C-2,3,4,6,7,8-HxCDF	95.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0996			13C-1,2,3,7,8,9-HxCDF	97.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.334			J	13C-1,2,3,4,6,7,8-HpCDF	90.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.106			13C-1,2,3,4,7,8,9-HpCDF	90.7	26 - 138	
OCDF	0.586			J, B	13C-OCDF	82.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	118	35 - 197	

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

TEQMinWHO2005Dioxin 0.0454

TOTALS				
Total TCDD	0.128			
Total PeCDD	ND		0.157	
Total HxCDD	1.40			
Total HpCDD	4.92			
Total TCDF	ND	0.0325		
Total PeCDF	0.0914		0.0914	
Total HxCDF	0.239		0.320	
Total HpCDF	0.620			

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-027SC-A-02-03-201106 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002436-02 Date Received: 10-Nov-2020 10:08
Project: GascoSiltronic: US Moorings	Sample Size: 12.6 g	QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50
Date Collected: 06-Nov-2020 16:40	% Solids: 82.5	Date Analyzed: 26-Nov-20 07:15 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0571			IS 13C-2,3,7,8-TCDD	108	25 - 164	
1,2,3,7,8-PeCDD	ND	0.101			13C-1,2,3,7,8-PeCDD	84.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.109			13C-1,2,3,4,7,8-HxCDD	83.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.111			13C-1,2,3,6,7,8-HxCDD	84.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.124			13C-1,2,3,7,8,9-HxCDD	89.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.11			J	13C-1,2,3,4,6,7,8-HpCDD	78.9	23 - 140	
OCDD	13.2			B	13C-OCDD	69.6	17 - 157	
2,3,7,8-TCDF	ND	0.0384			13C-2,3,7,8-TCDF	99.2	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0606			13C-1,2,3,7,8-PeCDF	88.6	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0544			13C-2,3,4,7,8-PeCDF	90.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0634			13C-1,2,3,4,7,8-HxCDF	91.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0583			13C-1,2,3,6,7,8-HxCDF	92.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0658			13C-2,3,4,6,7,8-HxCDF	93.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.105			13C-1,2,3,7,8,9-HxCDF	89.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.358		13C-1,2,3,4,6,7,8-HpCDF	84.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.120			13C-1,2,3,4,7,8,9-HpCDF	77.6	26 - 138	
OCDF	ND		0.372		13C-OCDF	73.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	134	35 - 197	

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

TEQMinWHO2005Dioxin 0.0151

TOTALS								
Total TCDD	ND	0.0571						
Total PeCDD	ND	0.101						
Total HxCDD	0.176							
Total HpCDD	2.50							
Total TCDF	ND	0.0384						
Total PeCDF	ND		0.108					
Total HxCDF	0.369							
Total HpCDF	ND		0.738					

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-027SC-A-03-04-201106 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002436-03 Date Received: 10-Nov-2020 10:08
Project: GascoSiltronic: US Moorings	Sample Size: 13.0 g	QC Batch: B0K0129 Date Extracted: 16-Nov-2020 15:37
Date Collected: 06-Nov-2020 16:40	% Solids: 79.4	Date Analyzed: 24-Nov-20 19:38 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0480			IS 13C-2,3,7,8-TCDD	89.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.110			13C-1,2,3,7,8-PeCDD	90.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0960			13C-1,2,3,4,7,8-HxCDD	89.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0973			13C-1,2,3,6,7,8-HxCDD	88.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.110			13C-1,2,3,7,8,9-HxCDD	90.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.740			J	13C-1,2,3,4,6,7,8-HpCDD	89.2	23 - 140	
OCDD	17.9				13C-OCDD	79.8	17 - 157	
2,3,7,8-TCDF	ND	0.0248			13C-2,3,7,8-TCDF	91.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0384			13C-1,2,3,7,8-PeCDF	93.8	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0319			13C-2,3,4,7,8-PeCDF	96.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0397			13C-1,2,3,4,7,8-HxCDF	90.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0396			13C-1,2,3,6,7,8-HxCDF	87.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0441			13C-2,3,4,6,7,8-HxCDF	89.8	28 - 136	
1,2,3,7,8,9-HxCDF	0.0326			J	13C-1,2,3,7,8,9-HxCDF	90.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.153			J	13C-1,2,3,4,6,7,8-HpCDF	88.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0718			13C-1,2,3,4,7,8,9-HpCDF	86.8	26 - 138	
OCDF	ND	0.0800			13C-OCDF	77.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	99.6	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0176

TOTALS			
Total TCDD	0.157		
Total PeCDD	ND	0.110	
Total HxCDD	0.589		
Total HpCDD	1.84		
Total TCDF	ND	0.0248	
Total PeCDF	ND	0.0384	
Total HxCDF	0.140		
Total HpCDF	0.153		

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-027SC-A-04-05-201106 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002436-04 Date Received: 10-Nov-2020 10:08
Project: GascoSiltronic: US Moorings	Sample Size: 11.2 g	QC Batch: B0K0129 Date Extracted: 16-Nov-2020 15:37
Date Collected: 06-Nov-2020 16:40	% Solids: 91.1	Date Analyzed: 24-Nov-20 20:23 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0460			IS 13C-2,3,7,8-TCDD	81.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.105			13C-1,2,3,7,8-PeCDD	81.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.113			13C-1,2,3,4,7,8-HxCDD	81.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.114			13C-1,2,3,6,7,8-HxCDD	79.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.121			13C-1,2,3,7,8,9-HxCDD	83.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.199			13C-1,2,3,4,6,7,8-HpCDD	80.2	23 - 140	
OCDD	2.67			J	13C-OCDD	68.5	17 - 157	
2,3,7,8-TCDF	ND	0.0227			13C-2,3,7,8-TCDF	83.2	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0389			13C-1,2,3,7,8-PeCDF	85.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0362			13C-2,3,4,7,8-PeCDF	84.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0290			13C-1,2,3,4,7,8-HxCDF	81.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0268			13C-1,2,3,6,7,8-HxCDF	79.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0311			13C-2,3,4,6,7,8-HxCDF	82.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0467			13C-1,2,3,7,8,9-HxCDF	82.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0576			13C-1,2,3,4,6,7,8-HpCDF	78.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0647			13C-1,2,3,4,7,8,9-HpCDF	74.8	26 - 138	
OCDF	ND	0.113			13C-OCDF	68.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	95.8	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.000801

TOTALS		
Total TCDD	ND	0.0460
Total PeCDD	ND	0.105
Total HxCDD	0.179	
Total HpCDD	ND	0.199
Total TCDF	ND	0.0227
Total PeCDF	ND	0.0389
Total HxCDF	ND	0.0467
Total HpCDF	ND	0.0647

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

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

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
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

2002436

3.3°C

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: VISTA-20201106-171341
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-027SC-A-01-02-201106	N	SE	11/06/2020	16:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
002	USMPDI-027SC-A-02-03-201106	N	SE	11/06/2020	16:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
003	USMPDI-027SC-A-03-04-201106	N	SE	11/06/2020	16:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
004	USMPDI-027SC-A-04-05-201106	N	SE	11/06/2020	16:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C

Comment:					
Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:	Signature:	Signature:
Print Name: <i>[Name]</i>	Print Name: <i>[Name]</i>	Print Name:	Print Name:	Print Name:	Print Name:
Company: <i>[Company]</i>	Company: <i>[Company]</i>	Company:	Company:	Company:	Company:
Date/Time: <i>[Date/Time]</i>	Date/Time: <i>[Date/Time]</i>	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2002436 TAT Std

Samples Arrival:	Date/Time <u>11/10/20 10:00</u>	Initials: <u>UJW</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>3.3</u> (uncorrected)	Probe used: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		Thermometer ID: <u>TR-3</u>
Temp °C: <u>3.3</u> (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>		
Airbill <u>3 of 3</u> Trk # <u>7720 3139 0151</u>	<input checked="" type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>		
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
			<input checked="" type="checkbox"/> Return <input type="checkbox"/> Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>		
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>		

Logged In:	Date/Time <u>11/10/20 1225</u>	Initials: <u>KS</u>	Location: <u>WR-2</u> Shelf/Rack: <u>H3</u>
COC Anomaly/Sample Acceptance Form completed?			<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2002436

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2002436-01	A USMPDI-027SC-A-01-02-201106	<input checked="" type="checkbox"/>	06-Nov-20 16:40	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2002436-02	A USMPDI-027SC-A-02-03-201106	<input checked="" type="checkbox"/>	06-Nov-20 16:40	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2002436-03	A USMPDI-027SC-A-03-04-201106	<input checked="" type="checkbox"/>	06-Nov-20 16:40	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2002436-04	A USMPDI-027SC-A-04-05-201106	<input checked="" type="checkbox"/>	06-Nov-20 16:40	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid

Checkmarks indicate that information on the COC reconciled with the sample label.

Any discrepancies are noted in the following columns.

	Yes	No	NA
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)	✓		
Preservation Documented: Na2S2O3 Trizma <u>None</u> Other		✓	✓
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓

Comments:

CS = Cooler 3 of 3

Verified by/Date: Ka 11/10/20

EXTRACTION INFORMATION

Process Sheet
Workorder: 2002436

Prep Expiration: 2021-11-06
 Client: Anchor QEA, LLC

Workorder Due: 08-Dec-20 00:00

TAT: 28

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

Prep Batch: BOK0129

Prep Data Entered: IM 11/18/20
Date and Initials

Initial Sequence: SK0072

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2002436-01	<input checked="" type="checkbox"/>	USMPDI-027SC-A-01-02-201106	10-Nov-20 10:08	WR-2 H-3	
2002436-02	<input checked="" type="checkbox"/>	USMPDI-027SC-A-02-03-201106	10-Nov-20 10:08	WR-2 H-3	
2002436-03	<input checked="" type="checkbox"/>	USMPDI-027SC-A-03-04-201106	10-Nov-20 10:08	WR-2 H-3	
2002436-04	<input checked="" type="checkbox"/>	USMPDI-027SC-A-04-05-201106	10-Nov-20 10:08	WR-2 H-3	

WO Comments: 1613: 10g dw

Pre-Prep Check Out: HS 11/11/20
 Pre-Prep Check In: HS 11/11/20

Prep Check Out: IM 11/16/20
 Prep Check In: IM 11/16/20

Prep Reconciled Initials/Date: HS 11/11/20
 Spike Reconciled Initials/Date: IM 11/16/20
 VialBoxID: Turkey

PREPARATION BENCH SHEET

Matrix: Solid

B0K0129

Chemist: IM

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 16-Nov-20 15:37 1155
IM 11/16/20

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	Column Packer:				Florisil CHEM/ DATE	RS CHEM/WIT DATE
					CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE		
A1	B0K0129-BLK1	N/A	(10.00)	IM 11/16/20	IM DG 11/17/20	IM 11/17/20	IM 11/17/20	IM 11/17/20	IM 11/18/20	IM RR 11/18/20
A2	B0K0129-BS1	↓	(10.00)	↓	↓	↓	↓	↓	↓	↓
A3	B0K0129-DUP1 2002359-04	5.70	6.19	↓	↓	N/A	↓	↓	↓	↓
A4	2002356-01	5.74	6.69	↓	↓	↓	↓	↓	↓	↓
A5	2002356-02	6.03	6.48	↓	↓	↓	↓	↓	↓	↓
A6	2002359-01	(A) 5.83	6.10	↓	↓	↓	↓	↓	↓	↓
A7	2002359-02	6.15	6.65	↓	↓	↓	↓	↓	↓	↓
A8	2002359-03	5.85	6.12	↓	↓	↓	↓	↓	↓	↓
A9	2002359-04	5.70	6.04	↓	↓	↓	↓	↓	↓	↓
A10	2002359-05	6.01	6.38	↓	↓	↓	↓	↓	↓	↓
A11	2002359-06	7.16	8.09	↓	↓	↓	grey, brown lines	↓	↓	↓
B1	2002359-07	6.87	7.57	↓	↓	↓	maroon line	↓	↓	↓
B2	2002359-08	(C) 6.78	7.02	↓	↓	↓	beige line	↓	↓	↓
B3	2002359-09	(E) 6.66	7.36	↓	↓	↓	maroon lines & grey	↓	↓	↓
B4	2002425-01	27.57	28.34	↓	↓	IM 11/17/20	maroon line, beige & grey	↓	↓	↓

IS: 20F1101, 10mL (V3)	Cycle Time	APP: SEFUN SOX SDS	Check Out: Chemist/Date: IM 11/16/20	Soxhlet Siphoned Chemist/Date: IM 11/16/20	Notes: (A) Approached dryness on, RX Soxhlet (B) poured through glass wool to remove broken glass IM 11/17/20 (C) bottom of soxhlet stuck in opening of roundbottom Rinsed and transferred to new RB (refer to (B)) IM 11/17/20 (E) slow to elute florisil column w/ DCM IM 11/18/20
NS: 20F0107, 10mL (V4)	Start Date/Time: 11/16/20	SOLV: TOL	Check In: Chemist/Date: IM 11/16/20	Vial Transfer Chemist/Date: IM 11/18/20	
PS/CRS: 20E0701, 10mL (V1)	Stop Date/Time: 11/17/20	Other: N/A	Balance ID: HRMS-8		
RS: 20E0702, 10mL (V1)		Final Volume(s): 20mL C14			
Diox/F PCB PAH PEST PBDE HCB					

Comments: #IM 11/17/20

- 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

BOK0129

Chemist: IM

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 16-Nov-20 15:37

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
B5	2002436-01	11.32	11.53	IM HR 11/16/20	IM DG 11/17/20	N/A	IM 11/17/20	IM 11/17/20	IM 11/18/20	IM R21/18/20
B6	2002436-02	12.12	12.66	IM HR 11/16/20	IM DG 11/17/20	N/A	IM 11/17/20	IM 11/17/20	IM 11/18/20	IM R21/18/20
B7	2002436-03	12.59	12.99	IM HR 11/16/20	IM DG 11/17/20	N/A	IM 11/17/20	IM 11/17/20	IM 11/18/20	IM R21/18/20
B8	2002436-04	10.97	11.23							

IS: 20F1101, 10µL (V3)	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: 11/16/20 IM	Soxhlet Siphoned Chemist/Date: IM 11/16/20	Notes: (D) sample fell off of rotovap into water bath IM 11/17/20 (E) slow to elute florisil column with DCM IM 11/18/20
NS: 20F0107, 10µL (V4)	Start Date/Time 11/16/20	SOLV: TOL	Check In: 11/16/20 IM	IM 11/16/20	
PS/CRS: 2060701, 10µL (V1)	455	Other: N/A	Balance ID: HRMS-8	Vial Transfer Chemist/Date: IM 11/18/20	
RS: 2060702, 10µL (V1)	Stop Date/Time 11/17/20	Final Volume(s) 20µL			
Diox/F PCB PAH PEST PBDE HCB	0600	214			

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: B0K0129

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2002356-01	6.69 ✓	87.17277	5.8319	20 ✓	16-Nov-20 15:37 ✓	IM ✓			Sediment	1613 Full List
2002356-02	6.48 ✓	82.89787	5.3718	20	16-Nov-20 15:37	IM			Sediment	1613 Full List
2002359-01	6.1 ✓	85.8006	5.2338	20	16-Nov-20 15:37	IM			Sediment	1613 Full List
2002359-02	6.65 ✓	81.33333	5.4087	20	16-Nov-20 15:37	IM			Sediment	1613 Full List
2002359-03	6.12 ✓	85.48897	5.2319	20	16-Nov-20 15:37	IM			Sediment	1613 Full List
2002359-04	6.04 ✓	87.77506	5.3016	20	16-Nov-20 15:37	IM			Sediment	1613 Full List
2002359-05	6.38 ✓	83.22296	5.3096	20	16-Nov-20 15:37	IM			Sediment	1613 Full List
2002359-06	8.09 ✓	69.80676	5.6474	20	16-Nov-20 15:37	IM			Sediment	1613 Full List
2002359-07	7.57 ✓	72.74549	5.5068	20	16-Nov-20 15:37	IM			Sediment	1613 Full List
2002359-08	7.02 ✓	73.76726	5.1785	20	16-Nov-20 15:37	IM			Sediment	1613 Full List
2002359-09	7.36 ✓	75.10639	5.5278	20	16-Nov-20 15:37	IM			Sediment	1613 Full List
2002425-01	28.34 ✓	36.26943	10.2788	20	16-Nov-20 15:37	IM			Sediment	1613 Full List
2002436-01	11.53 ✓	88.33923	10.1855	20 ✓	16-Nov-20 15:37 ✓	IM ✓			Sediment	1613 Full List
2002436-02	12.66	82.49337	10.4437	20	16-Nov-20 15:37	IM			Sediment	1613 Full List
2002436-03	12.99 ✓	79.42857	10.3178	20 ✓	16-Nov-20 15:37 ✓	IM ✓			Sediment	1613 Full List
2002436-04	11.23 ✓	91.13474	10.2344	20	16-Nov-20 15:37	IM			Sediment	1613 Full List
B0K0129-BLK1	10 ✓			20	16-Nov-20 15:37	IM				QC
B0K0129-BS1	10 ✓			20	16-Nov-20 15:37	IM	20F0107 ✓	10 ✓		QC
B0K0129-DUP1	6.19 ✓			20 ✓	16-Nov-20 15:37 ✓	IM ✓				QC

All bolded data on report verified against written benchsheet by (initial/date) IM 11/18/20

Percent Moisture/ Percent Solids

D2216-90

BATCH ID BOK0090

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

Inst **HRMS-9**

Date/Time IN: **11/11/20 14:32** Date/Time OUT: **11/12/20 0803**

B		C	D	E		F	G	H	I	K	L	M	N	O	P
Particle Size	SampID	SampType	Initial and Date:		HS 11/11/20	HS 11/12/20	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*	
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)										
	2002436-01	A	Sample	1.24*	4.08	3.75			Soil						✓
	2002436-02	A	Sample	1.24**	5.02	4.36									✓
	2002436-03	A	Sample	1.21	4.77	4.05									
	2002436-04	A	Sample	1.25	4.07	3.82									

*Sample homogenized in sample container unless otherwise noted.

* 1.25 HS 11/11/20
 ** 1.25 HS 11/11/20

Process Sheet
 Workorder: **2002436**

RX

C7 11/16/20
 Workorder Due: 08-Dec-20 00:00
 TAT: 28 /

Prep Expiration: 2021-11-06
 Client: Anchor QEA, LLC

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

Prep Batch: BOK0172
 Prep Data Entered: IM 11/24/20
Date and Initials
 Initial Sequence: SOK0075

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2002436-01	<input type="checkbox"/>	USMPDI-027SC-A-01-02-201106	10-Nov-20 10:08	WR-2 H-3	
2002436-02 A	<input checked="" type="checkbox"/>	USMPDI-027SC-A-02-03-201106	10-Nov-20 10:08	WR-2 H-3	03-Dec-20 00:00
2002436-03	<input type="checkbox"/>	USMPDI-027SC-A-03-04-201106	10-Nov-20 10:08	WR-2 H-3	
2002436-04	<input type="checkbox"/>	USMPDI-027SC-A-04-05-201106	10-Nov-20 10:08	WR-2 H-3	

WO Comments: 1613: 10g dw

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

Prep Check Out: RR 11/19/20
 Prep Check In: RR 11/19/20

Prep Reconciled Initials/Date: RR 11/19/20
 Spike Reconciled Initials/Date: ME 11/19/2020
 VialBoxID: Turkey

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	Column Packer:	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
					CRS/PS CHEM/WIT DATE	NA	DG 11/22/20	DG 11/22/20	DG 11/23/20	
A1	BOK0172-BLK1	NA	(10.00)	RRME 11/19/20	DG IM 11/22/20	NA	DG 11/22/20	DG 11/22/20	DG 11/23/20	DG IM 11/24/20
A2	BOK0172-BS1	↓	(10.00)							
A3	BOK0172-DUP1 2002374-08	11.45	11.57				green, blue			
A4	2002374-01	11.28	11.36				pink, and rings			
A5	2002374-02	15.42	15.53				Salmon ring			
A6	2002374-03	16.10	16.27				Indigo yellow	yellow and rings 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, black, 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, 10ml (V3)	Cycle Time	APP: SEFUN SOX SDS	Check Out: Chemist/Date: RR 11/19/20	Soxhlet Siphoned Chemist/Date: RR 11/19/20	Notes: (A) Particulate stuck in 500ml rb unable to be transferred to column. DG 11/22/20 ① DG 11/24/20
NS: 20F0107, 10ml (V4)	Start Date/Time: 11/19/20 15:27	SOLV: Toluene	Check In: Chemist/Date: RR 11/19/20	Vial Transfer Chemist/Date: IM 11/24/20	
PS/CRS: 20E0701, 10ml (V1)	Stop Date/Time: 11/20/20 07:54	Other: NA	Balance ID: HRMS-10		
RS: 20E0702, 10ml (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

Work Order 2002436

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

IS: 20F1101, 10mL (V3)	Cycle Time	APP: SEFUN (SOX) (SDS)	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	③ during transfer to conical vial, pipette broke & some of hexane rinse lost IM 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 2mL			
Diox/F PCB PAH PEST PBDE HCB					

Comments:

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

Batch: 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-BS1	10 ✓			20	19-Nov-20 12:50	RR	20F0107 ✓	10 ✓		QC
B0K0172-DUP1	11.57 ✓			20 ✓	19-Nov-20 12:50 ✓	RR ✓				QC

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

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\201124R1\201124R1-5.qld

Last Altered: Wednesday, November 25, 2020 10:25:36 Pacific Standard Time

Printed: Wednesday, November 25, 2020 10:27:32 Pacific Standard Time

GPB 11/25/2020

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

C7 11/25/2020

Name: 201124R1_5, Date: 24-Nov-2020, Time: 14:23:22, ID: B0K0129-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				0.0488	
2	2 1,2,3,7,8-PeCDD			NO	0.885	10.000	30.803		1.000				0.0769	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.000	34.135		1.000				0.0872	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.000	34.252		1.000				0.0892	
5	5 1,2,3,7,8,9-HxCDD			NO	0.934	10.000	34.529		1.000				0.0997	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.870	10.000	38.030		1.000				0.119	
7	7 OCDD			NO	0.872	10.000	40.977		1.000				0.252	
8	8 2,3,7,8-TCDF			NO	0.824	10.000	25.381		1.000				0.0326	
9	9 1,2,3,7,8-PeCDF			NO	0.963	10.000	29.542		1.000				0.0455	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.000	30.607		1.000				0.0370	
11	11 1,2,3,4,7,8-HxCDF			NO	0.953	10.000	33.220		1.000				0.0645	
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.000	33.347		1.000				0.0652	
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	10.000	34.021		1.000				0.0765	
14	14 1,2,3,7,8,9-HxCDF			NO	0.951	10.000	35.009		1.000				0.119	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.999	10.000	36.596		1.000				0.104	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	10.000	38.648		1.000				0.111	
17	17 OCDF	3.32e2	0.95	NO	0.868	10.000	41.272	41.25	1.000	1.000	0.32749		0.220	0.327
18	18 13C-2,3,7,8-TCDD	5.87e5	0.82	NO	1.11	10.000	26.058	26.07	1.030	1.030	167.17	83.6	0.226	
19	19 13C-1,2,3,7,8-PeCDD	4.38e5	0.63	NO	0.859	10.000	30.774	30.79	1.216	1.217	161.10	80.5	0.308	
20	20 13C-1,2,3,4,7,8-HxCDD	3.27e5	1.27	NO	0.700	10.000	34.124	34.13	1.014	1.014	155.14	77.6	0.400	
21	21 13C-1,2,3,6,7,8-HxCDD	4.01e5	1.27	NO	0.833	10.000	34.262	34.24	1.018	1.017	159.61	79.8	0.336	
22	22 13C-1,2,3,7,8,9-HxCDD	3.55e5	1.22	NO	0.762	10.000	34.504	34.52	1.025	1.026	154.72	77.4	0.367	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.87e5	1.07	NO	0.650	10.000	37.988	38.03	1.129	1.130	146.67	73.3	0.736	
24	24 13C-OCDD	4.01e5	0.86	NO	0.539	10.000	40.953	40.98	1.217	1.218	246.46	61.6	0.622	
25	25 13C-2,3,7,8-TCDF	8.42e5	0.78	NO	0.981	10.000	25.380	25.37	1.003	1.003	166.85	83.4	0.290	
26	26 13C-1,2,3,7,8-PeCDF	6.71e5	1.64	NO	0.792	10.000	29.506	29.53	1.166	1.167	164.80	82.4	0.578	
27	27 13C-2,3,4,7,8-PeCDF	6.65e5	1.59	NO	0.778	10.000	30.564	30.61	1.208	1.210	166.33	83.2	0.588	
28	28 13C-1,2,3,4,7,8-HxCDF	4.57e5	0.51	NO	0.954	10.000	33.215	33.22	0.987	0.987	159.10	79.5	0.711	
29	29 13C-1,2,3,6,7,8-HxCDF	4.78e5	0.50	NO	1.01	10.000	33.346	33.35	0.991	0.991	157.58	78.8	0.674	
30	30 13C-2,3,4,6,7,8-HxCDF	4.27e5	0.49	NO	0.921	10.000	34.016	34.02	1.011	1.011	153.64	76.8	0.737	

Dataset: U:\WG12.PRO\Results\201124R1\201124R1-5.qld

Last Altered: Wednesday, November 25, 2020 10:25:36 Pacific Standard Time

Printed: Wednesday, November 25, 2020 10:27:32 Pacific Standard Time

Name: 201124R1_5, Date: 24-Nov-2020, Time: 14:23:22, ID: B0K0129-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
31	31 13C-1,2,3,7,8,9-HxCDF	3.80e5	0.50	NO	0.803	10.000	35.012	35.01	1.040	1.040	157.01	78.5	0.845	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.20e5	0.41	NO	0.735	10.000	36.581	36.59	1.087	1.087	144.44	72.2	0.715	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.37e5	0.43	NO	0.568	10.000	38.617	38.65	1.147	1.148	138.62	69.3	0.926	
34	34 13C-OCDF	4.67e5	0.90	NO	0.629	10.000	41.235	41.26	1.225	1.226	246.10	61.5	0.589	
35	35 37Cl-2,3,7,8-TCDD	2.60e5			1.09	10.000	26.058	26.10	1.030	1.032	75.573	94.5	0.101	
36	36 13C-1,2,3,4-TCDD	6.33e5	0.81	NO	1.00	10.000	25.370	25.30	1.000	1.000	200.00	100	0.250	
37	37 13C-1,2,3,4-TCDF	1.03e6	0.79	NO	1.00	10.000	23.870	23.81	1.000	1.000	200.00	100	0.284	
38	38 13C-1,2,3,4,6,9-HxCDF	6.03e5	0.50	NO	1.00	10.000	33.710	33.66	1.000	1.000	200.00	100	0.679	
39	39 Total Tetra-Dioxins				0.950	10.000	24.620		0.000				0.0309	
40	40 Total Penta-Dioxins				0.885	10.000	29.960		0.000				0.0269	
41	41 Total Hexa-Dioxins				0.915	10.000	33.635		0.000				0.0455	
42	42 Total Hepta-Dioxins				0.870	10.000	37.640		0.000				0.0744	
43	43 Total Tetra-Furans				0.824	10.000	23.610		0.000				0.0163	
44	44 1st Func. Penta-Furans				0.963	10.000	26.930		0.000				0.00849	
45	45 Total Penta-Furans				0.963	10.000	29.275		0.000				0.0166	
46	46 Total Hexa-Furans				0.991	10.000	33.555		0.000				0.0347	
47	47 Total Hepta-Furans				0.999	10.000	37.835		0.000				0.0670	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201124R1\201124R1-5.qld

Last Altered: Wednesday, November 25, 2020 10:25:36 Pacific Standard Time

Printed: Wednesday, November 25, 2020 10:27:32 Pacific Standard Time

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: 201124R1_5, Date: 24-Nov-2020, Time: 14:23:22, ID: B0K0129-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\201124R1\201124R1-5.qld

Last Altered: Wednesday, November 25, 2020 10:25:36 Pacific Standard Time

Printed: Wednesday, November 25, 2020 10:27:32 Pacific Standard Time

Name: 201124R1_5, Date: 24-Nov-2020, Time: 14:23:22, ID: B0K0129-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

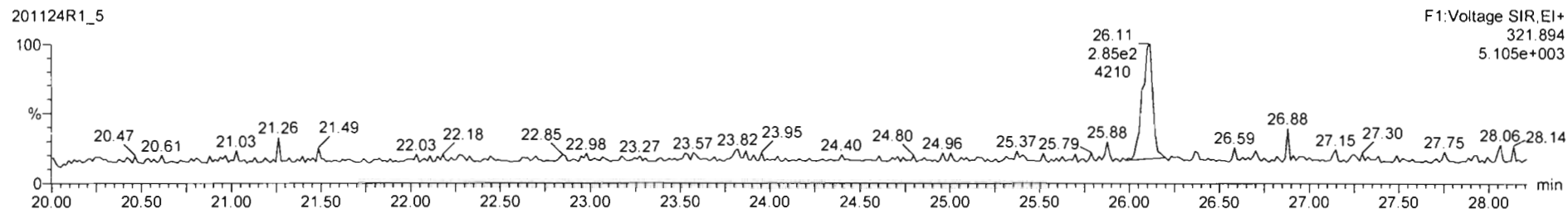
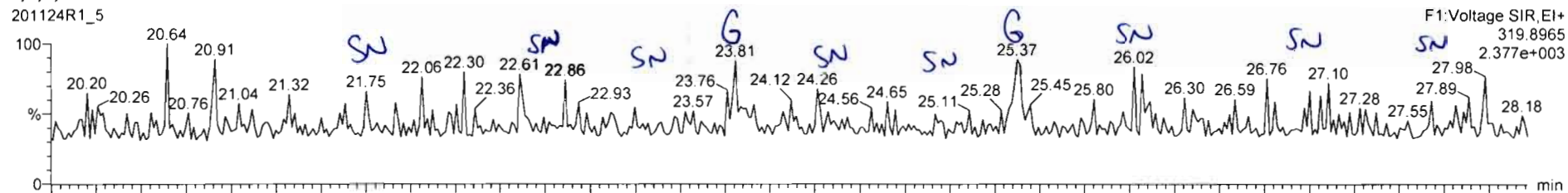
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1												

Dataset: Untitled

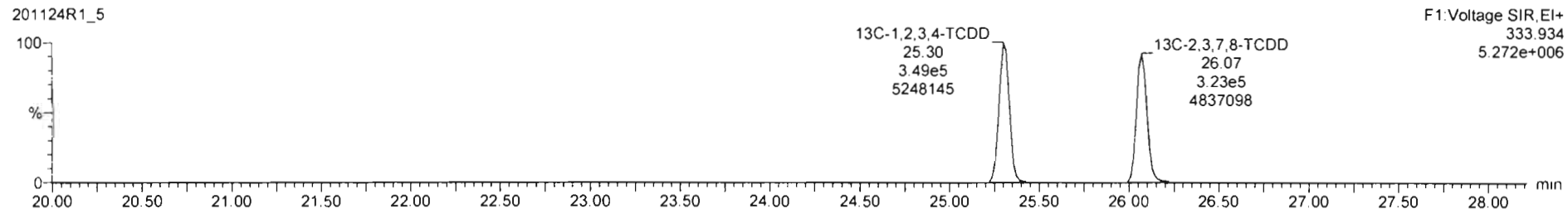
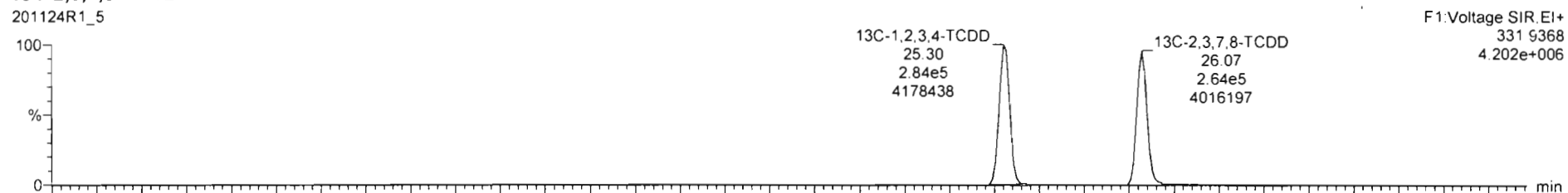
Last Altered: Wednesday, November 25, 2020 07:04:08 Pacific Standard Time
Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

Name: 201124R1_5, Date: 24-Nov-2020, Time: 14:23:22, ID: B0K0129-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD



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



Dataset: Untitled

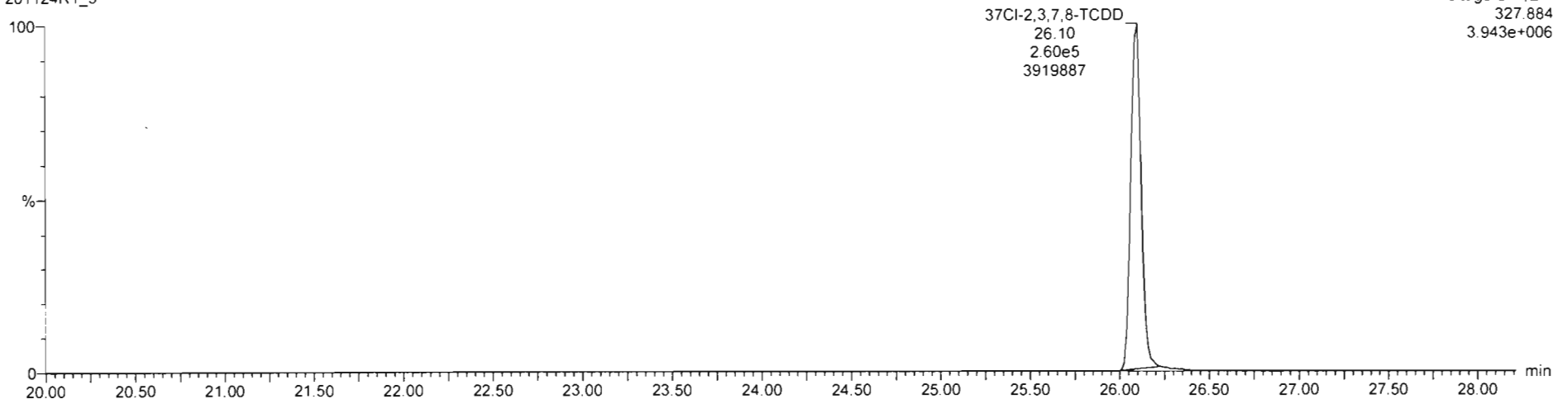
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Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

Name: 201124R1_5, Date: 24-Nov-2020, Time: 14:23:22, ID: B0K0129-BLK1 Method Blank 10, Description: Method Blank

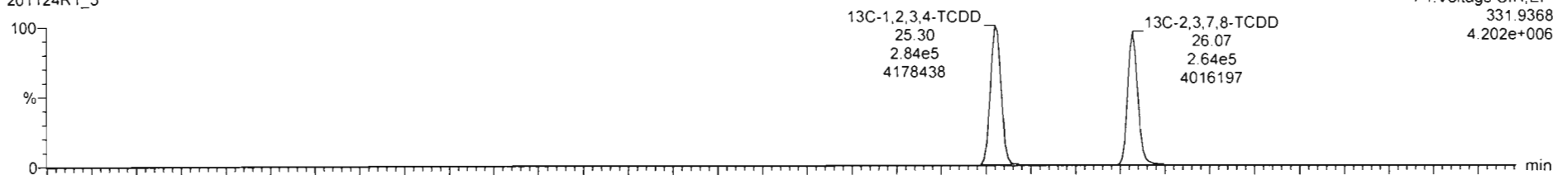
37Cl-2,3,7,8-TCDD

201124R1_5

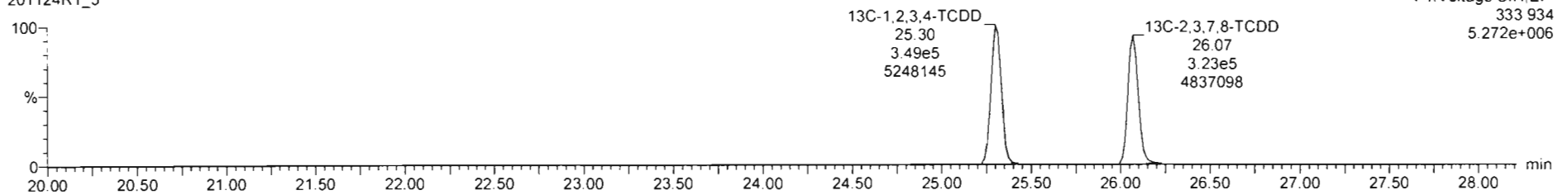


13C-1,2,3,4-TCDD

201124R1_5



201124R1_5



Dataset: Untitled

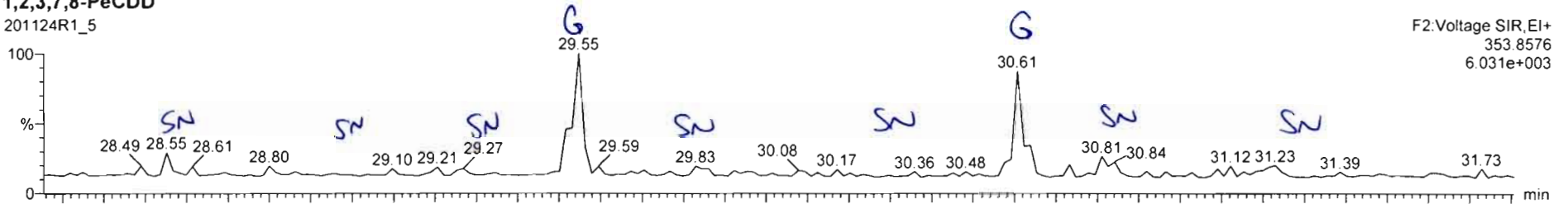
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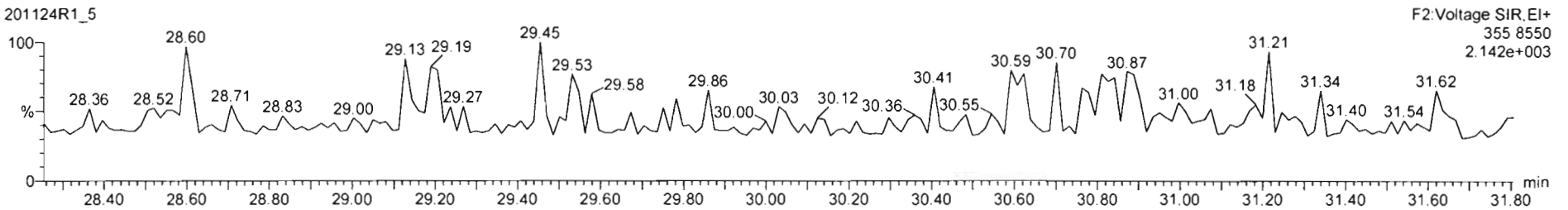
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1,2,3,7,8-PeCDD

201124R1_5

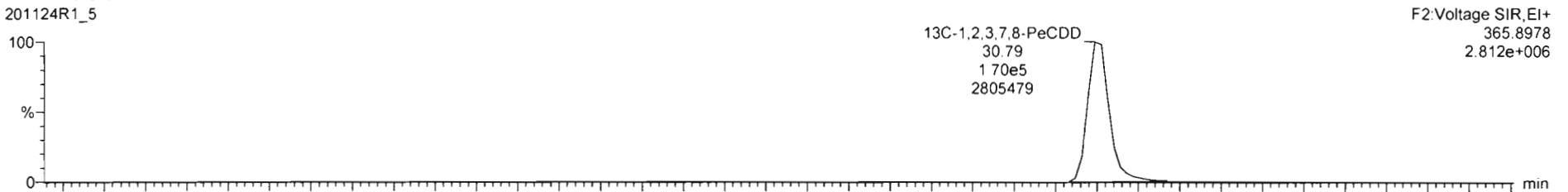


201124R1_5

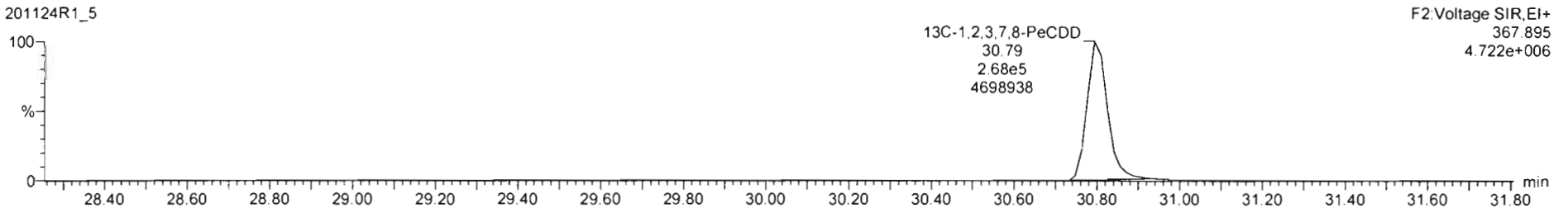


13C-1,2,3,7,8-PeCDD

201124R1_5



201124R1_5



Dataset: Untitled

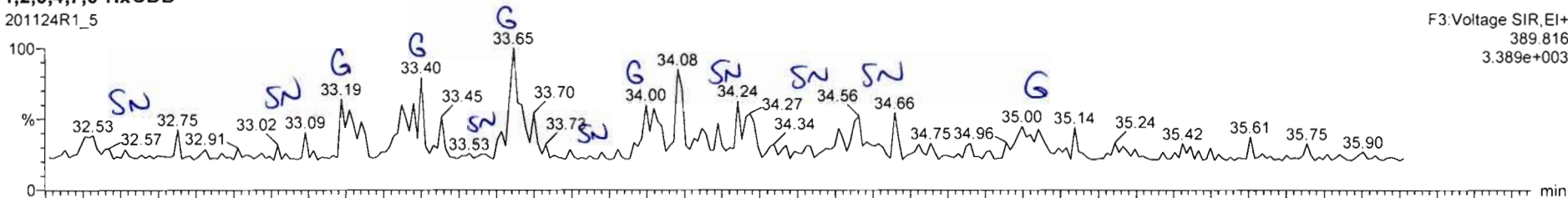
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Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

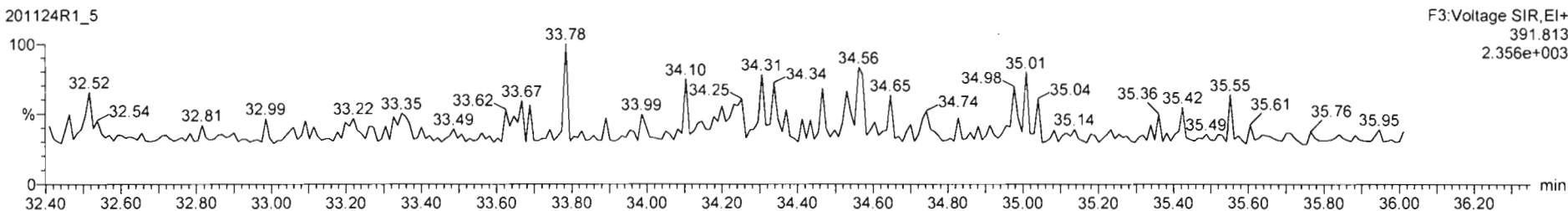
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1,2,3,4,7,8-HxCDD

201124R1_5

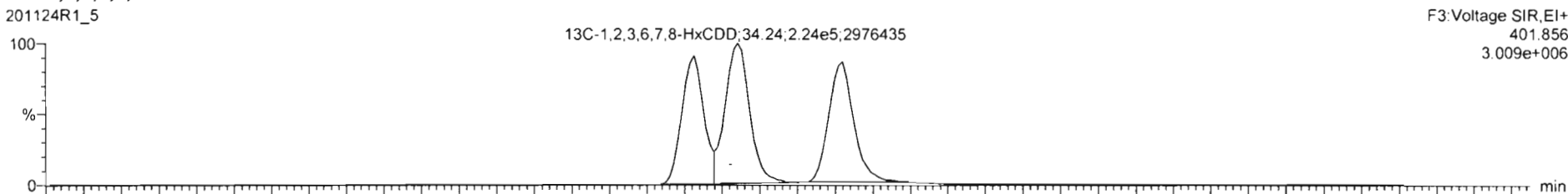


201124R1_5

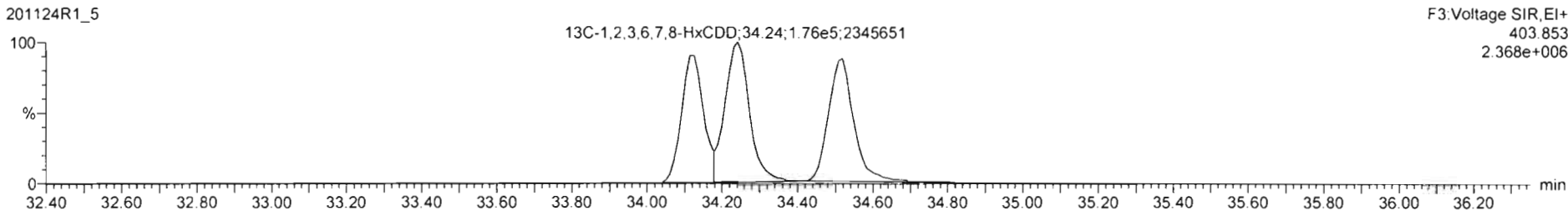


13C-1,2,3,4,7,8-HxCDD

201124R1_5



201124R1_5



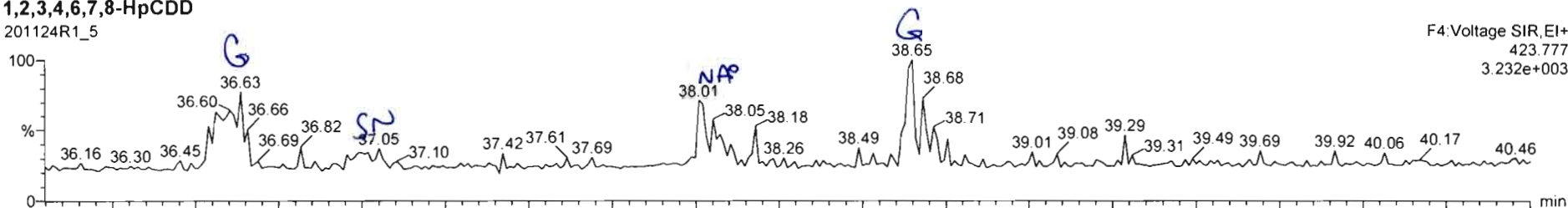
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Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

Name: 201124R1_5, Date: 24-Nov-2020, Time: 14:23:22, ID: B0K0129-BLK1 Method Blank 10, Description: Method Blank

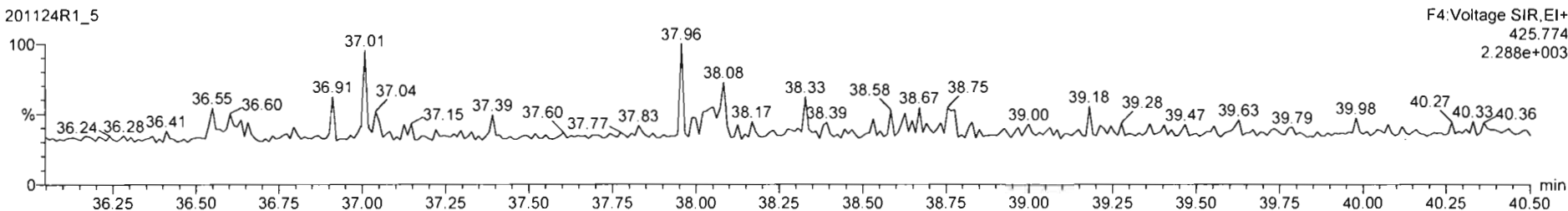
1,2,3,4,6,7,8-HpCDD

201124R1_5



F4:Voltage SIR,EI+
423.777
3.232e+003

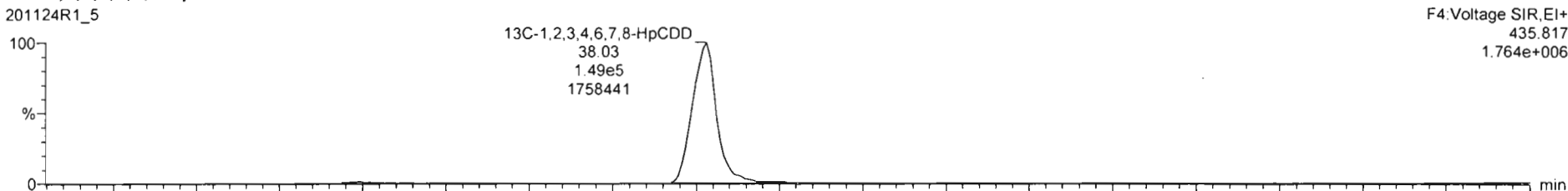
201124R1_5



F4:Voltage SIR,EI+
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2.288e+003

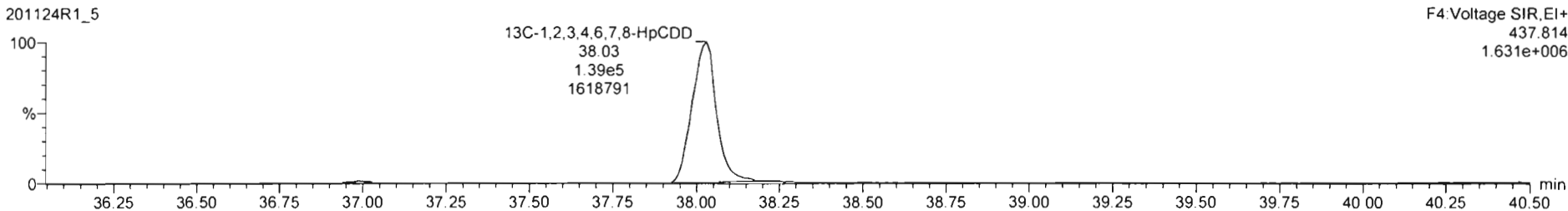
13C-1,2,3,4,6,7,8-HpCDD

201124R1_5



F4:Voltage SIR,EI+
435.817
1.764e+006

201124R1_5

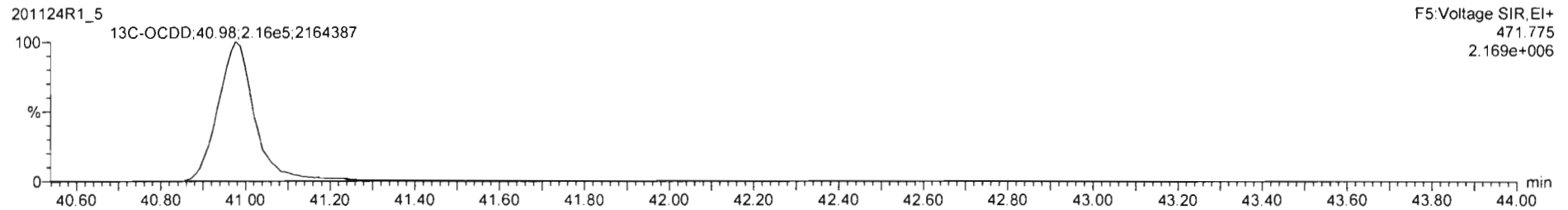
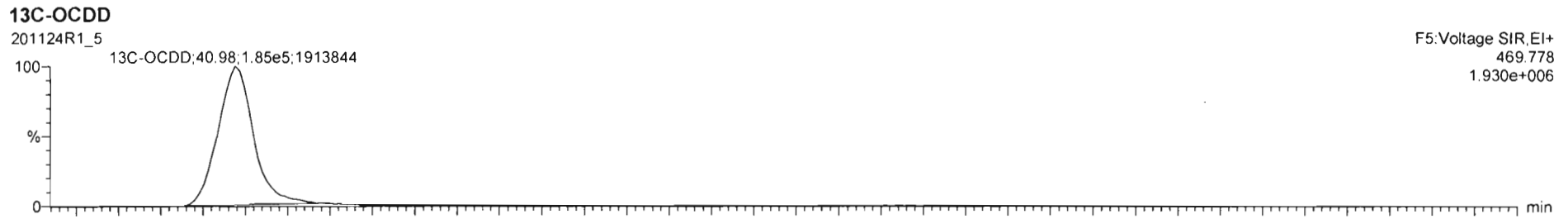
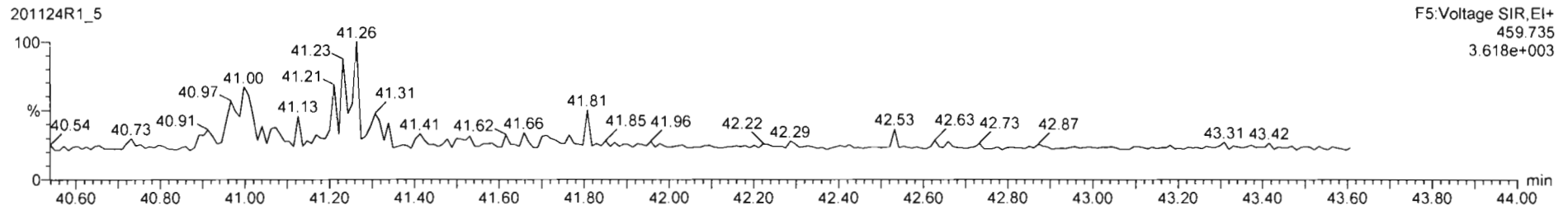
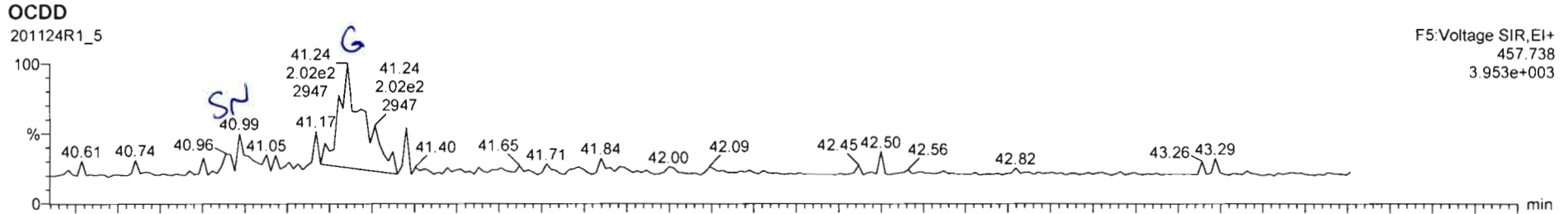


F4:Voltage SIR,EI+
437.814
1.631e+006

Dataset: Untitled

Last Altered: Wednesday, November 25, 2020 07:04:08 Pacific Standard Time
Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

Name: 201124R1_5, Date: 24-Nov-2020, Time: 14:23:22, ID: B0K0129-BLK1 Method Blank 10, Description: Method Blank

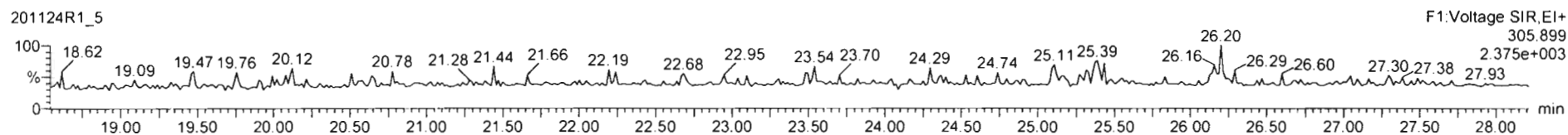
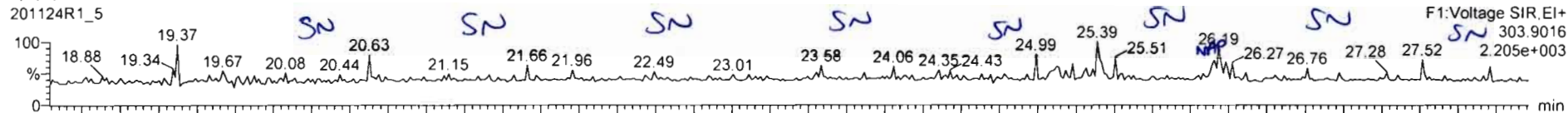


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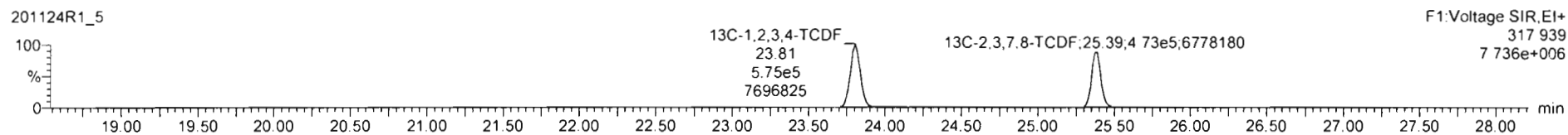
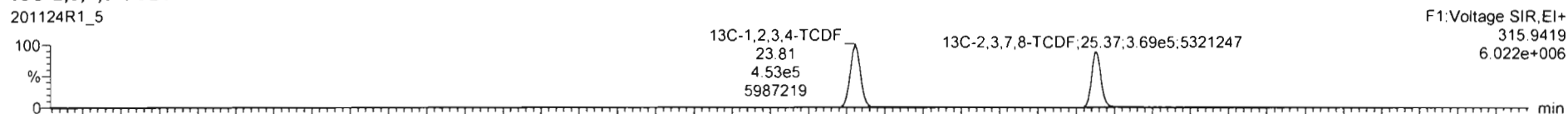
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Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

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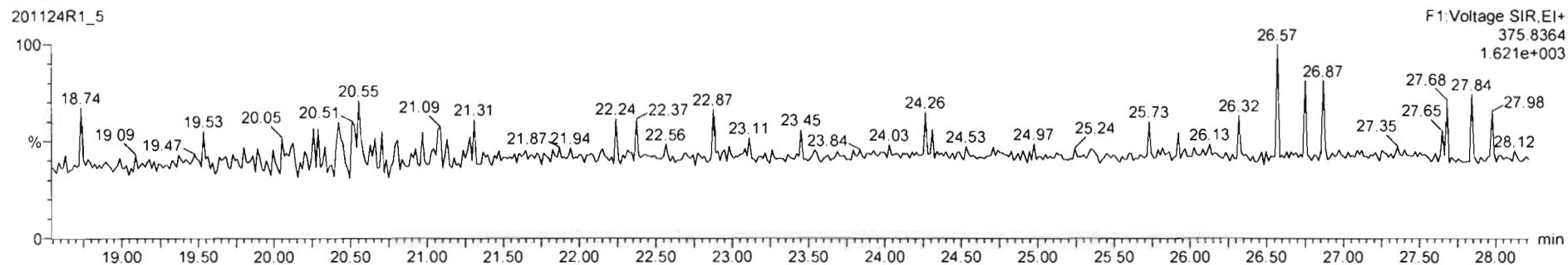
2,3,7,8-TCDF



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



DPE1

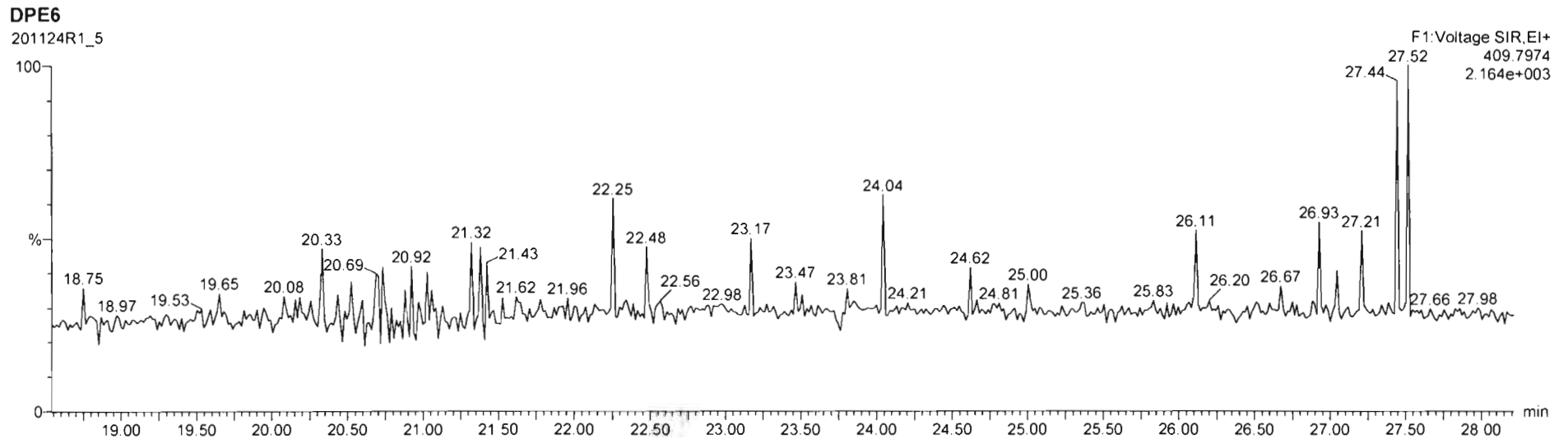
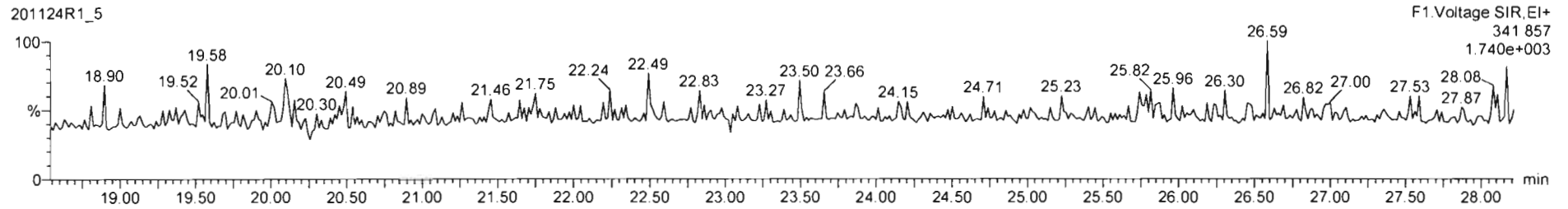
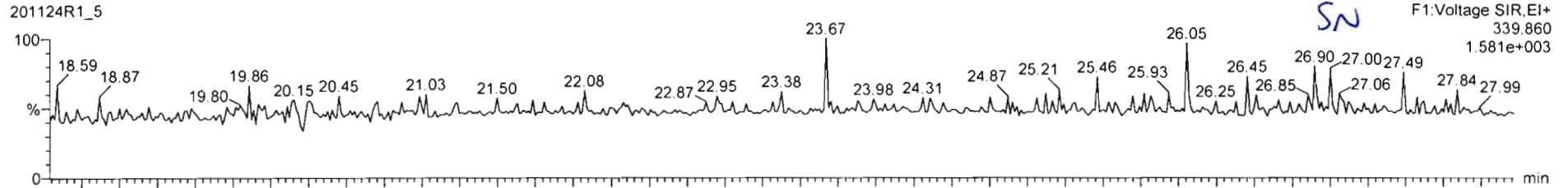


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Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

Name: 201124R1_5, Date: 24-Nov-2020, Time: 14:23:22, ID: B0K0129-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

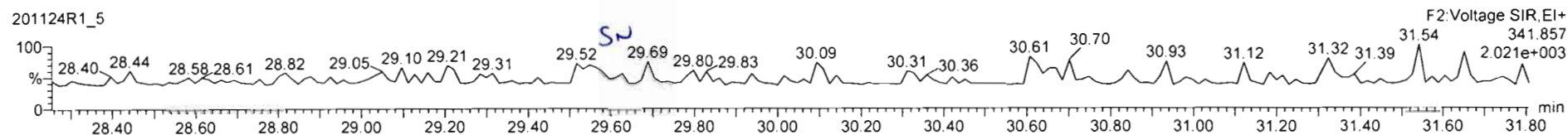
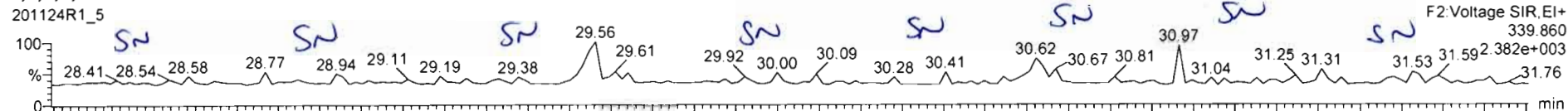


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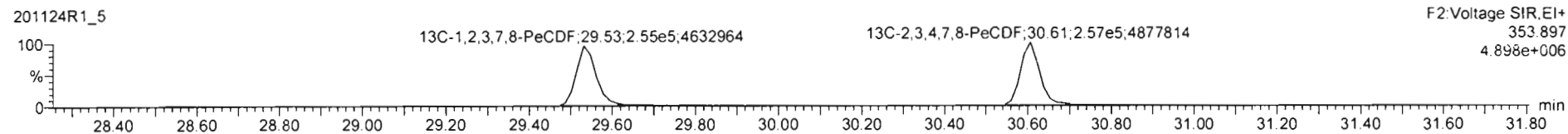
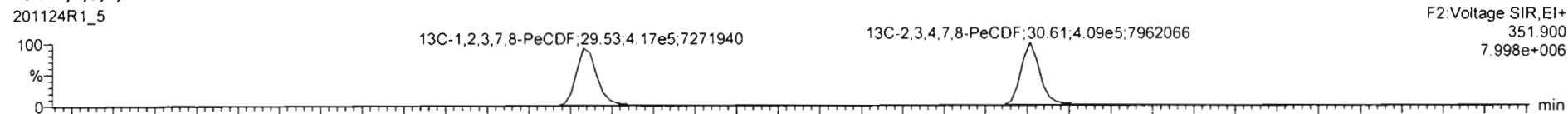
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Name: 201124R1_5, Date: 24-Nov-2020, Time: 14:23:22, ID: B0K0129-BLK1 Method Blank 10, Description: Method Blank

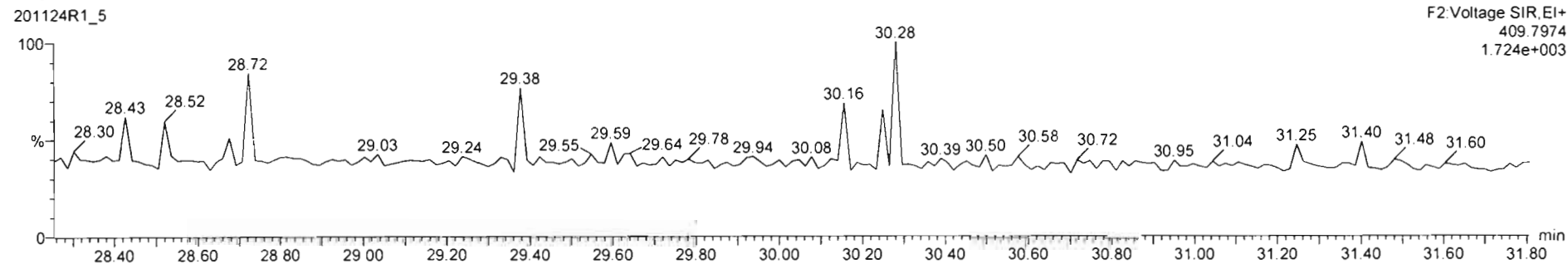
1,2,3,7,8-PeCDF



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



DPE2

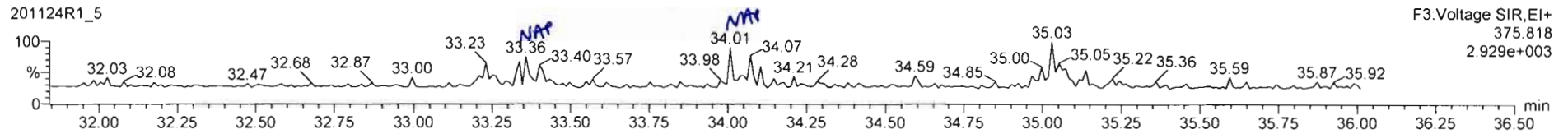
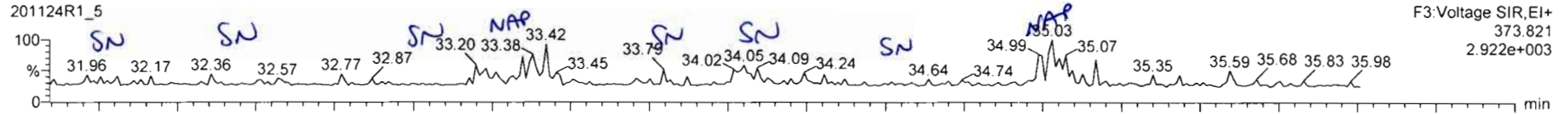


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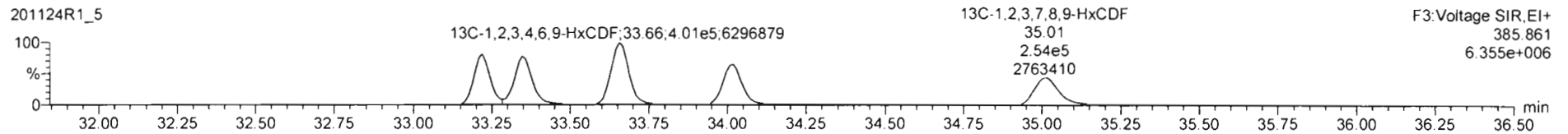
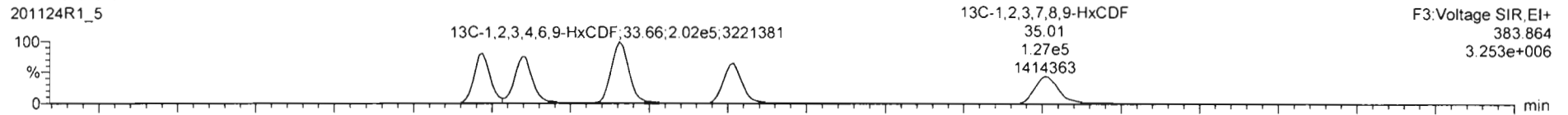
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Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

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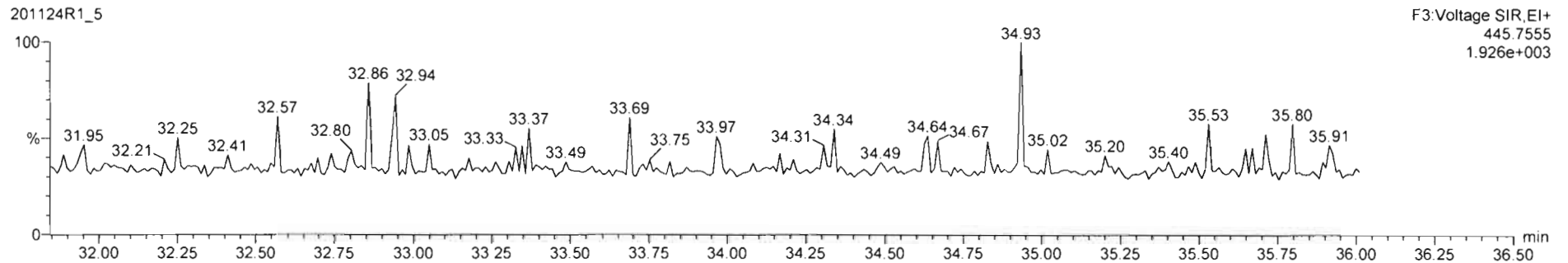
1,2,3,4,7,8-HxCDF



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



DPE3

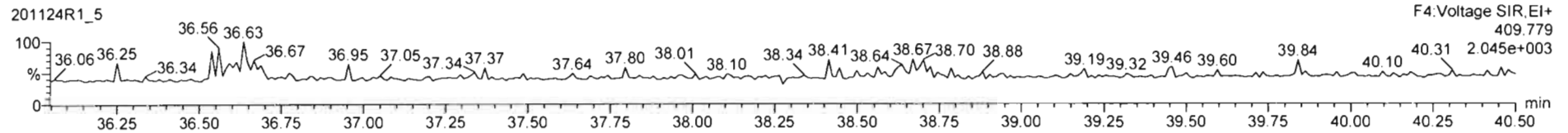
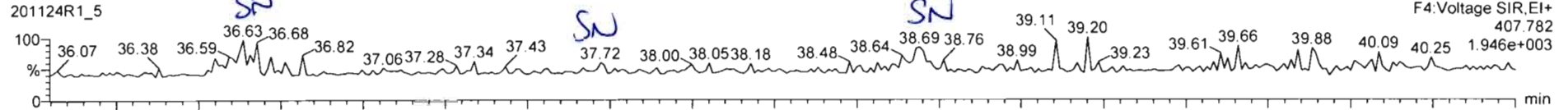


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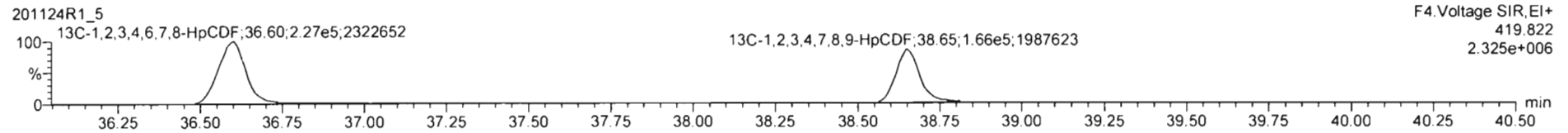
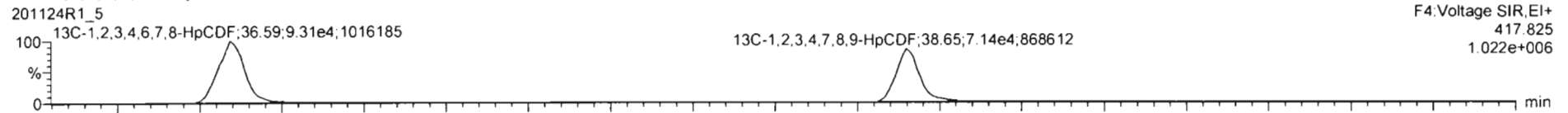
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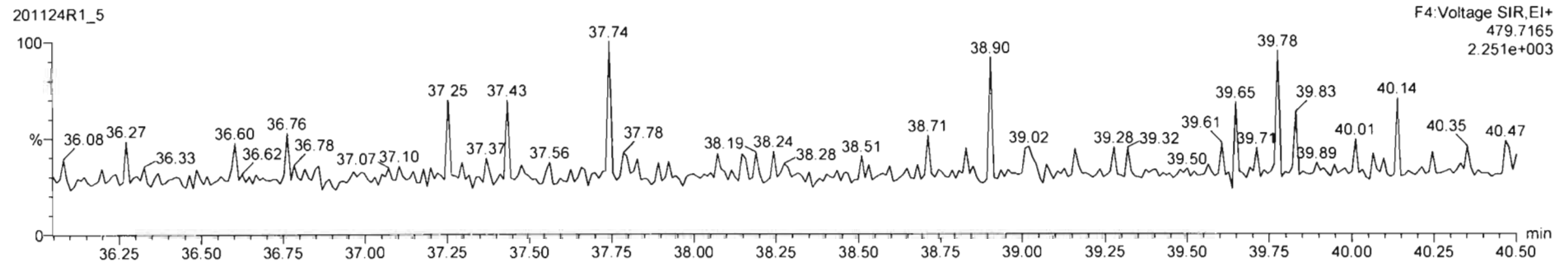
1,2,3,4,6,7,8-HpCDF



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



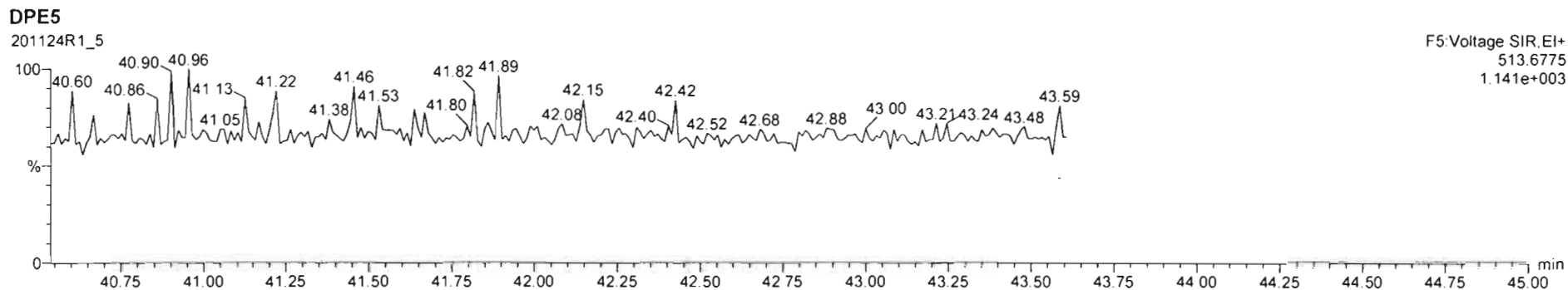
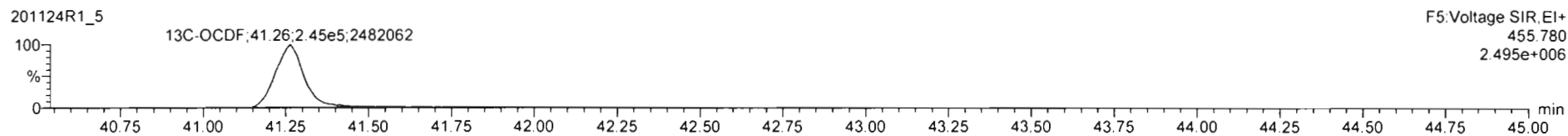
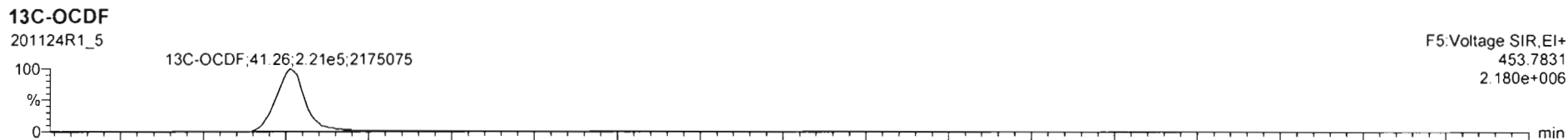
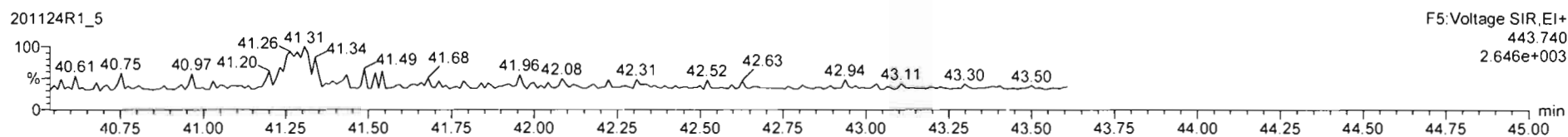
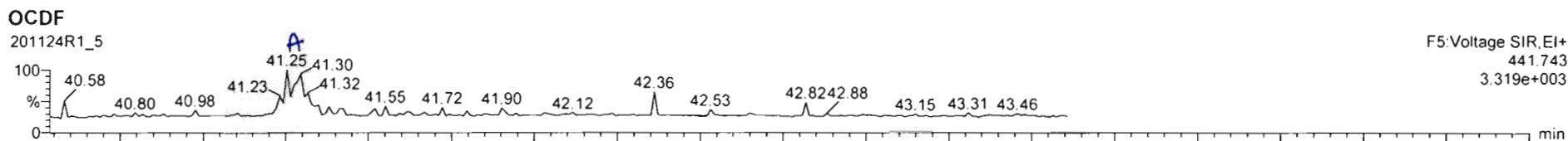
DPE4



Dataset: Untitled

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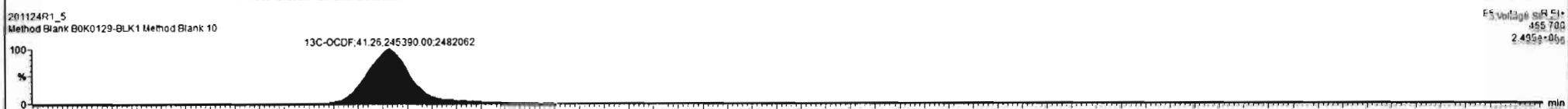
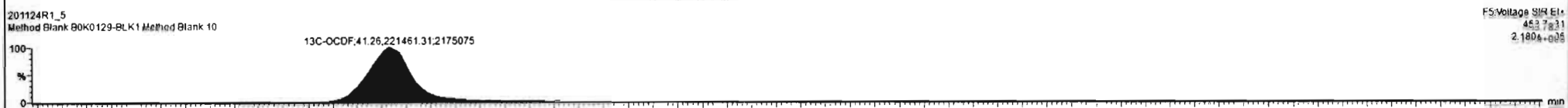
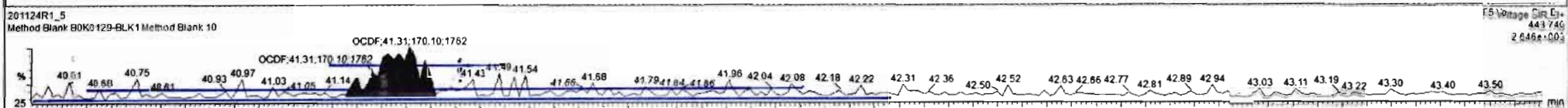
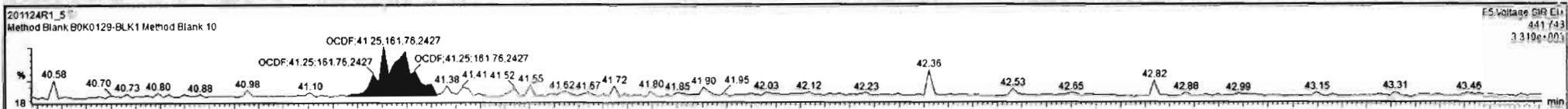


TargetLynx - 201124R1_5.qtd - Chromatogram

File Edit View Display Processing Window Help

201124R1_5 - BOK0129 BLK1 Method Blank 10 - Method Blank

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1	2,3,7,8-TCDD			NO	0.9501	10.000					0.0488	
2	1,2,3,7,8-PeCDD			NO	0.8855	10.000					0.0769	
3	1,2,3,4,7,8-HxCDD			NO	1.0176	10.000					0.0872	
4	1,2,3,6,7,8-HxCDD			NO	0.9145	10.000					0.0892	
5	1,2,3,7,8,9-HxCDD			NO	0.9345	10.000					0.0997	
6	1,2,3,4,6,7,8-HpCDD			NO	0.8697	10.000					0.119	
7	OCDD			NO	0.8717	10.000					0.252	
8	2,3,7,8-TCDF			NO	0.8243	10.000					0.0326	
9	1,2,3,7,8-PeCDF			NO	0.9626	10.000					0.0455	
10	2,3,4,7,8-PeCDF			NO	1.0684	10.000					0.0370	
11	1,2,3,4,7,8-HxCDF			NO	0.9535	10.000					0.0645	
12	1,2,3,6,7,8-HxCDF			NO	1.0080	10.000					0.0652	
13	2,3,4,6,7,8-HxCDF			NO	0.9907	10.000					0.0765	
14	1,2,3,7,8,9-HxCDF			NO	0.9506	10.000					0.119	
15	1,2,3,4,6,7,8-HpCDF			NO	0.9996	10.000					0.104	
16	1,2,3,4,7,8,9-HpCDF			NO	1.1238	10.000					0.111	
17	OCDF	3.32e2	0.82	NO	0.8662	10.000	41.25	1.000	0.327		0.220	0.327
18	13C-2,3,7,8-TCDD	5.87e5	0.82	NO	1.1089	10.000	26.97	1.030	167	83.6	0.225	
19	13C-1,2,3,7,8-PeCDD	4.38e5	0.83	NO	0.8585	10.000	30.79	1.217	161	80.5	0.308	

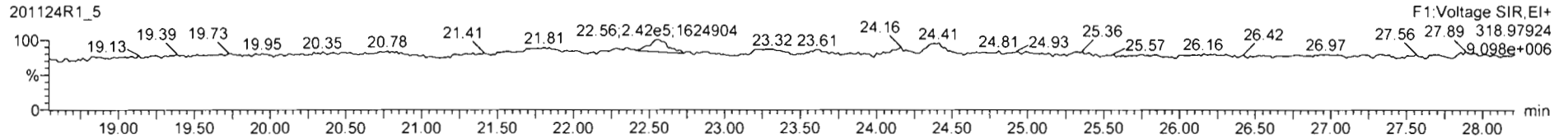


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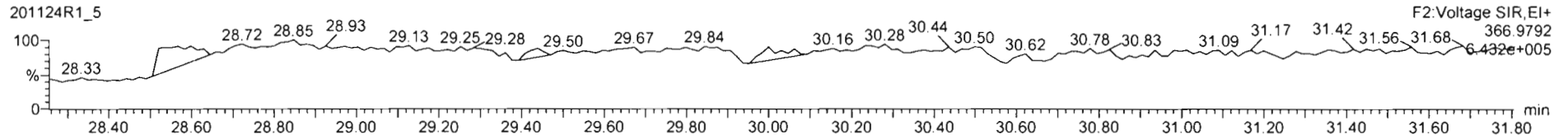
Last Altered: Wednesday, November 25, 2020 07:04:08 Pacific Standard Time
Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

Name: 201124R1_5, Date: 24-Nov-2020, Time: 14:23:22, ID: B0K0129-BLK1 Method Blank 10, Description: Method Blank

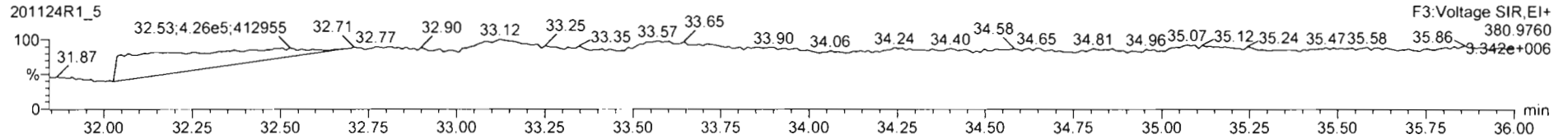
PFK1



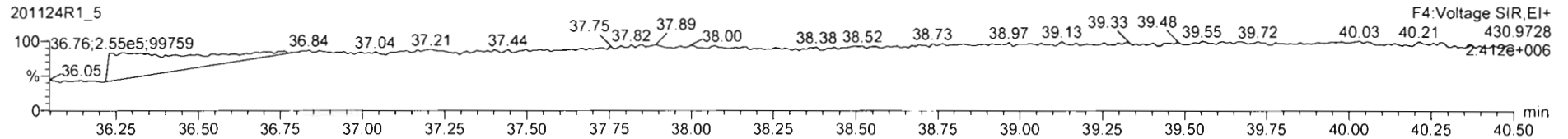
PFK2



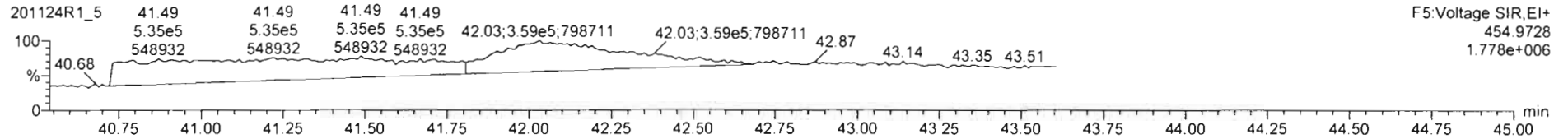
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201124R1\201124R1-3.qld

Last Altered: Wednesday, November 25, 2020 09:56:19 Pacific Standard Time

Printed: Wednesday, November 25, 2020 09:56:54 Pacific Standard Time

GRB 11/25/2020

C 11/25/2020

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: 201124R1_3, Date: 24-Nov-2020, Time: 12:43:35, ID: B0K0129-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	6.18e4	0.79	NO	0.950	10.000	26.097	26.08	1.001	1.001	21.650		0.0737	21.7
2	2 1,2,3,7,8-PeCDD	2.25e5	0.61	NO	0.885	10.000	30.804	30.81	1.000	1.000	114.84		0.237	115
3	3 1,2,3,4,7,8-HxCDD	1.91e5	1.26	NO	1.02	10.000	34.124	34.14	1.000	1.001	112.58		0.242	113
4	4 1,2,3,6,7,8-HxCDD	1.95e5	1.25	NO	0.915	10.000	34.252	34.25	1.000	1.000	107.09		0.247	107
5	5 1,2,3,7,8,9-HxCDD	1.89e5	1.25	NO	0.934	10.000	34.518	34.52	1.000	1.000	108.90		0.267	109
6	6 1,2,3,4,6,7,8-HpCDD	1.39e5	1.03	NO	0.870	10.000	37.998	38.01	1.000	1.000	106.65		0.520	107
7	7 OCDD	1.99e5	0.87	NO	0.872	10.000	40.955	40.98	1.000	1.001	209.20		0.632	209
8	8 2,3,7,8-TCDF	7.06e4	0.75	NO	0.824	10.000	25.381	25.40	1.000	1.001	19.756		0.0604	19.8
9	9 1,2,3,7,8-PeCDF	3.53e5	1.60	NO	0.963	10.000	29.542	29.55	1.000	1.001	106.07		0.257	106
10	10 2,3,4,7,8-PeCDF	3.92e5	1.55	NO	1.07	10.000	30.608	30.62	1.000	1.000	106.87		0.224	107
11	11 1,2,3,4,7,8-HxCDF	2.33e5	1.25	NO	0.953	10.000	33.209	33.23	1.000	1.001	104.54		0.285	105
12	12 1,2,3,6,7,8-HxCDF	2.52e5	1.19	NO	1.01	10.000	33.348	33.36	1.000	1.000	103.77		0.279	104
13	13 2,3,4,6,7,8-HxCDF	2.24e5	1.21	NO	0.991	10.000	34.011	34.03	1.000	1.001	103.51		0.334	104
14	14 1,2,3,7,8,9-HxCDF	1.94e5	1.26	NO	0.951	10.000	35.009	35.03	1.000	1.001	104.23		0.497	104
15	15 1,2,3,4,6,7,8-HpCDF	1.68e5	1.00	NO	0.999	10.000	36.586	36.59	1.000	1.000	105.08		0.548	105
16	16 1,2,3,4,7,8,9-HpCDF	1.39e5	1.00	NO	1.12	10.000	38.627	38.65	1.000	1.001	102.20		0.584	102
17	17 OCDF	2.26e5	0.89	NO	0.868	10.000	41.251	41.26	1.000	1.001	209.24		0.718	209
18	18 13C-2,3,7,8-TCDD	6.01e5	0.80	NO	1.11	10.000	26.058	26.07	1.030	1.030	175.91	88.0	0.264	
19	19 13C-1,2,3,7,8-PeCDD	4.43e5	0.64	NO	0.859	10.000	30.774	30.80	1.216	1.217	167.72	83.9	0.178	
20	20 13C-1,2,3,4,7,8-HxCDD	3.34e5	1.30	NO	0.700	10.000	34.125	34.11	1.014	1.014	164.58	82.3	0.520	
21	21 13C-1,2,3,6,7,8-HxCDD	3.99e5	1.28	NO	0.833	10.000	34.263	34.24	1.018	1.017	165.27	82.6	0.437	
22	22 13C-1,2,3,7,8,9-HxCDD	3.72e5	1.26	NO	0.762	10.000	34.505	34.51	1.025	1.025	168.57	84.3	0.478	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.99e5	1.06	NO	0.650	10.000	37.989	38.00	1.129	1.129	158.66	79.3	0.743	
24	24 13C-OCDD	4.36e5	0.90	NO	0.539	10.000	40.954	40.96	1.217	1.217	279.16	69.8	0.625	
25	25 13C-2,3,7,8-TCDF	8.67e5	0.77	NO	0.981	10.000	25.380	25.37	1.003	1.003	174.43	87.2	0.300	
26	26 13C-1,2,3,7,8-PeCDF	6.91e5	1.60	NO	0.792	10.000	29.506	29.53	1.166	1.167	172.28	86.1	0.640	
27	27 13C-2,3,4,7,8-PeCDF	6.86e5	1.60	NO	0.778	10.000	30.564	30.61	1.208	1.210	174.21	87.1	0.651	
28	28 13C-1,2,3,4,7,8-HxCDF	4.68e5	0.50	NO	0.954	10.000	33.216	33.21	0.987	0.987	169.15	84.6	0.694	
29	29 13C-1,2,3,6,7,8-HxCDF	4.82e5	0.50	NO	1.01	10.000	33.347	33.35	0.991	0.991	165.45	82.7	0.658	
30	30 13C-2,3,4,6,7,8-HxCDF	4.36e5	0.50	NO	0.921	10.000	34.017	34.01	1.011	1.010	163.39	81.7	0.719	

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Printed: Wednesday, November 25, 2020 09:56:54 Pacific Standard Time

Name: 201124R1_3, Date: 24-Nov-2020, Time: 12:43:35, ID: B0K0129-BS1 OPR 10, Description: OPR

	# 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	3.91e5	0.49	NO	0.803	10.000	35.013	35.01	1.040	1.040	168.06	84.0	0.824	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.20e5	0.42	NO	0.735	10.000	36.582	36.58	1.087	1.087	149.95	75.0	0.590	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.42e5	0.41	NO	0.568	10.000	38.618	38.63	1.147	1.148	146.82	73.4	0.764	
34	34 13C-OCDF	4.98e5	0.87	NO	0.629	10.000	41.237	41.24	1.225	1.225	272.74	68.2	0.708	
35	35 37Cl-2,3,7,8-TCDD	2.67e5			1.09	10.000	26.058	26.08	1.030	1.031	79.639	99.5	0.0838	
36	36 13C-1,2,3,4-TCDD	6.16e5	0.80	NO	1.00	10.000	25.370	25.30	1.000	1.000	200.00	100	0.293	
37	37 13C-1,2,3,4-TCDF	1.01e6	0.79	NO	1.00	10.000	23.870	23.79	1.000	1.000	200.00	100	0.294	
38	38 13C-1,2,3,4,6,9-HxCDF	5.80e5	0.50	NO	1.00	10.000	33.710	33.66	1.000	1.000	200.00	100	0.662	

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Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

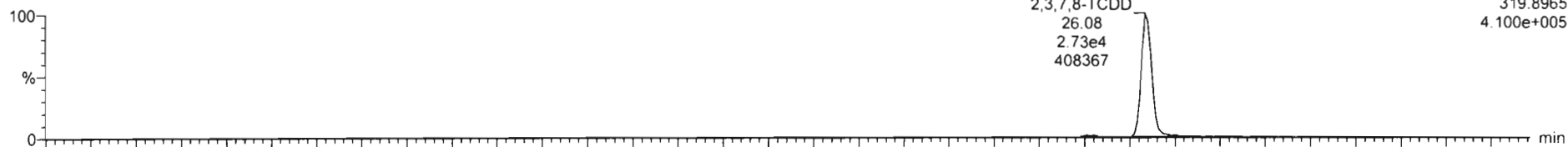
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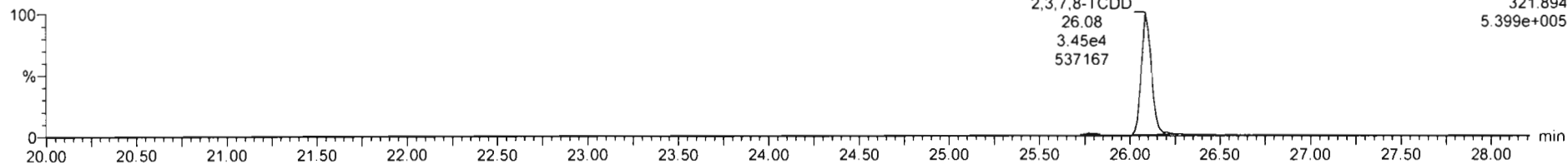
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2,3,7,8-TCDD

201124R1_3

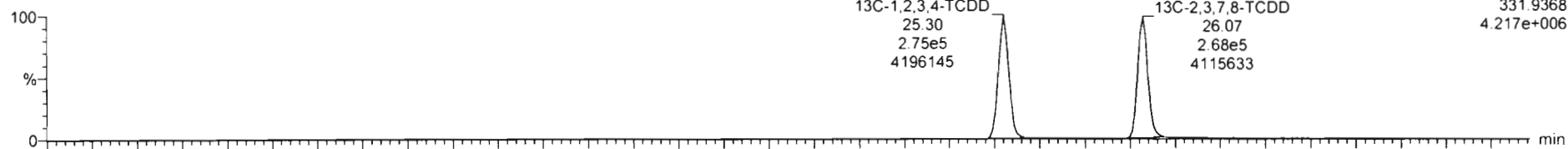


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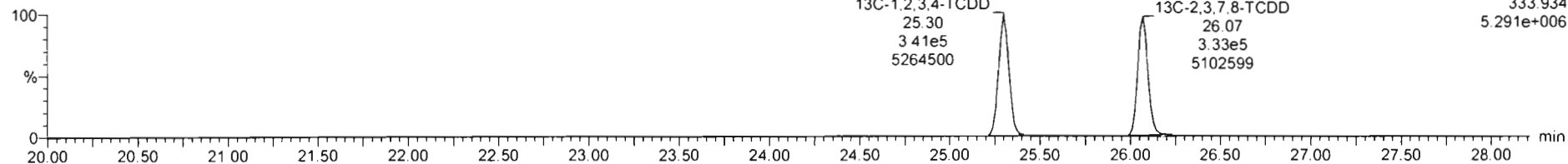


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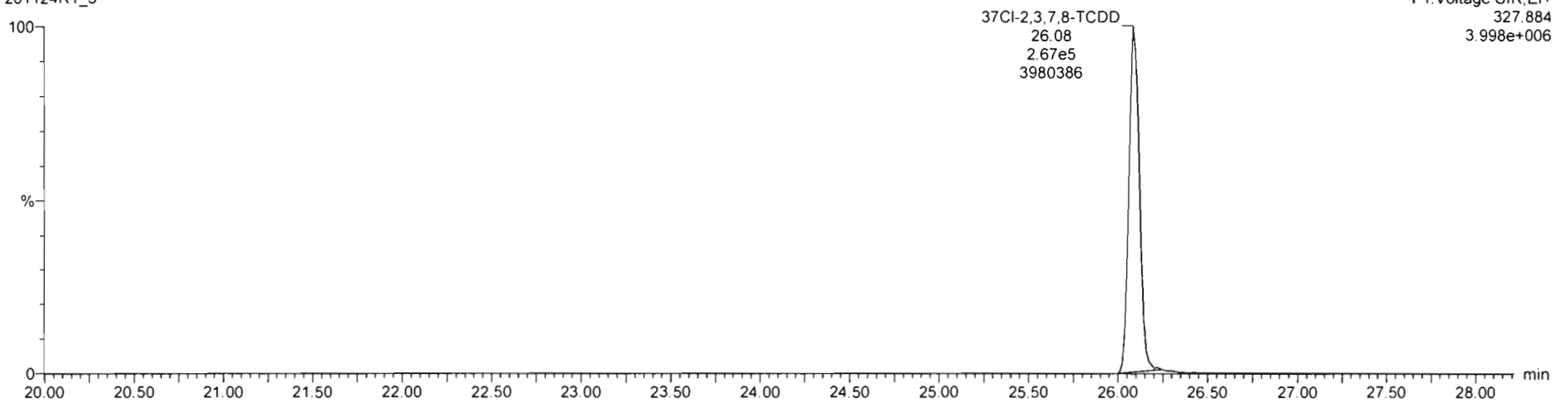
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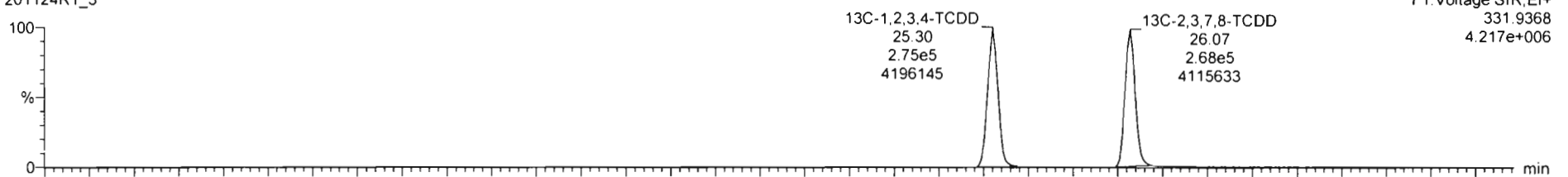
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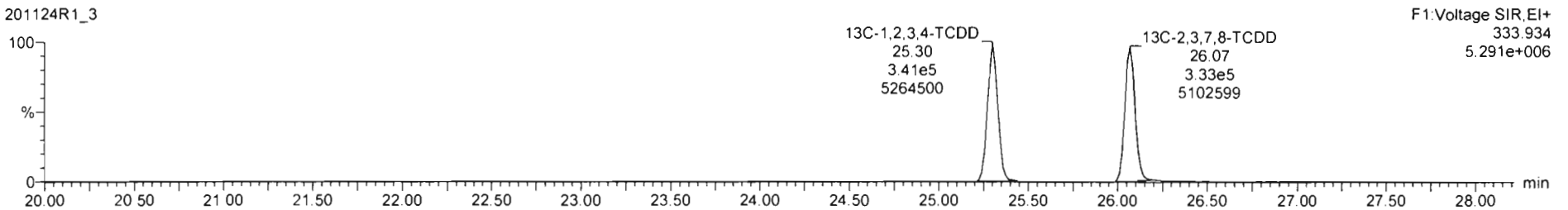


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201124R1_3



201124R1_3



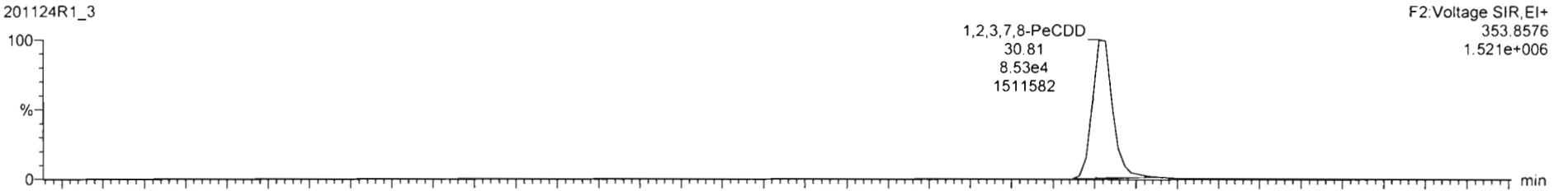
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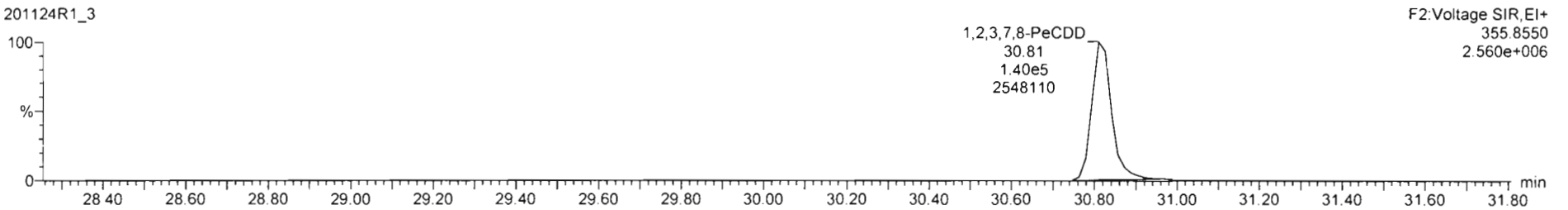
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1,2,3,7,8-PeCDD

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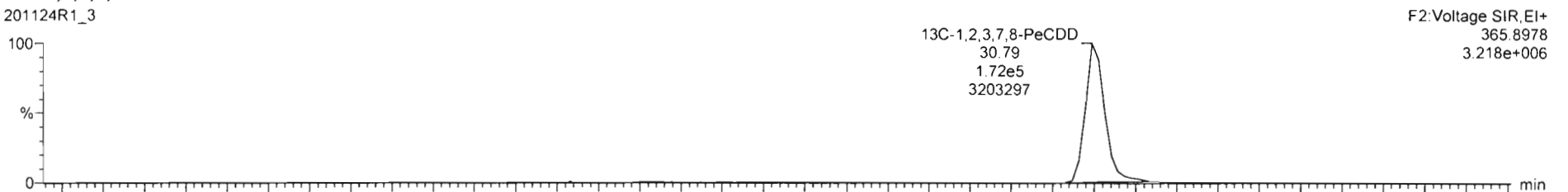


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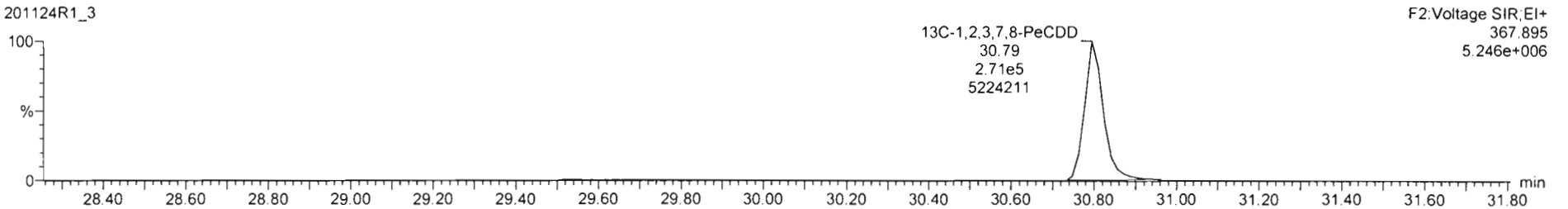


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201124R1_3



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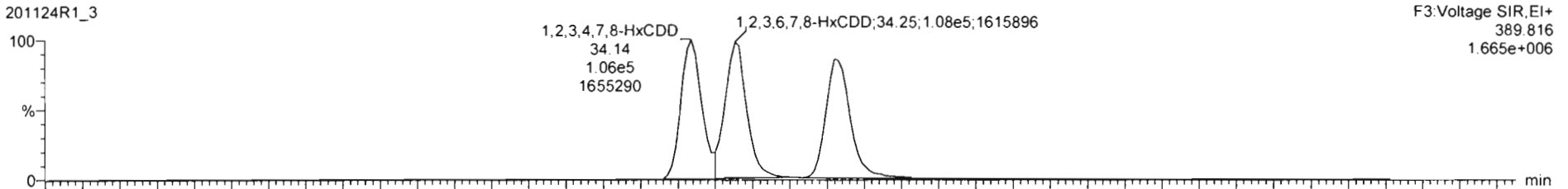
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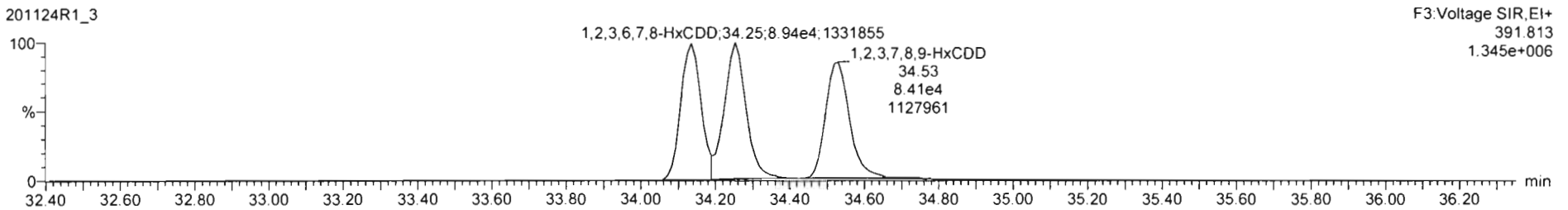
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1,2,3,4,7,8-HxCDD

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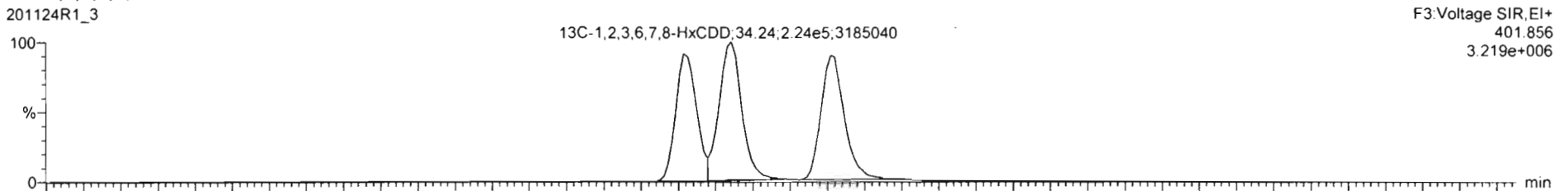


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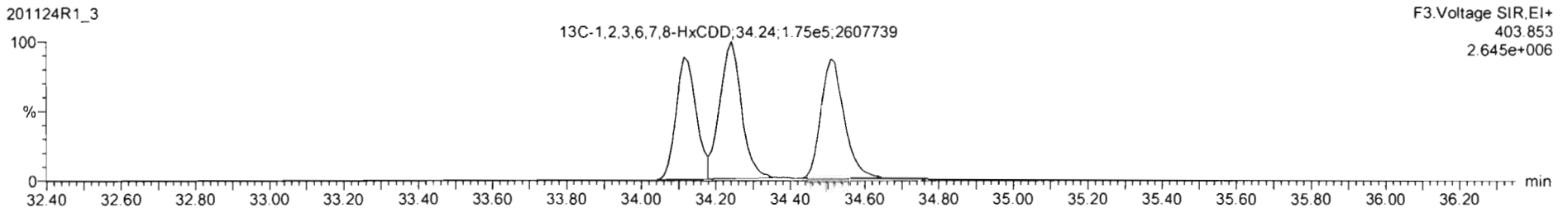


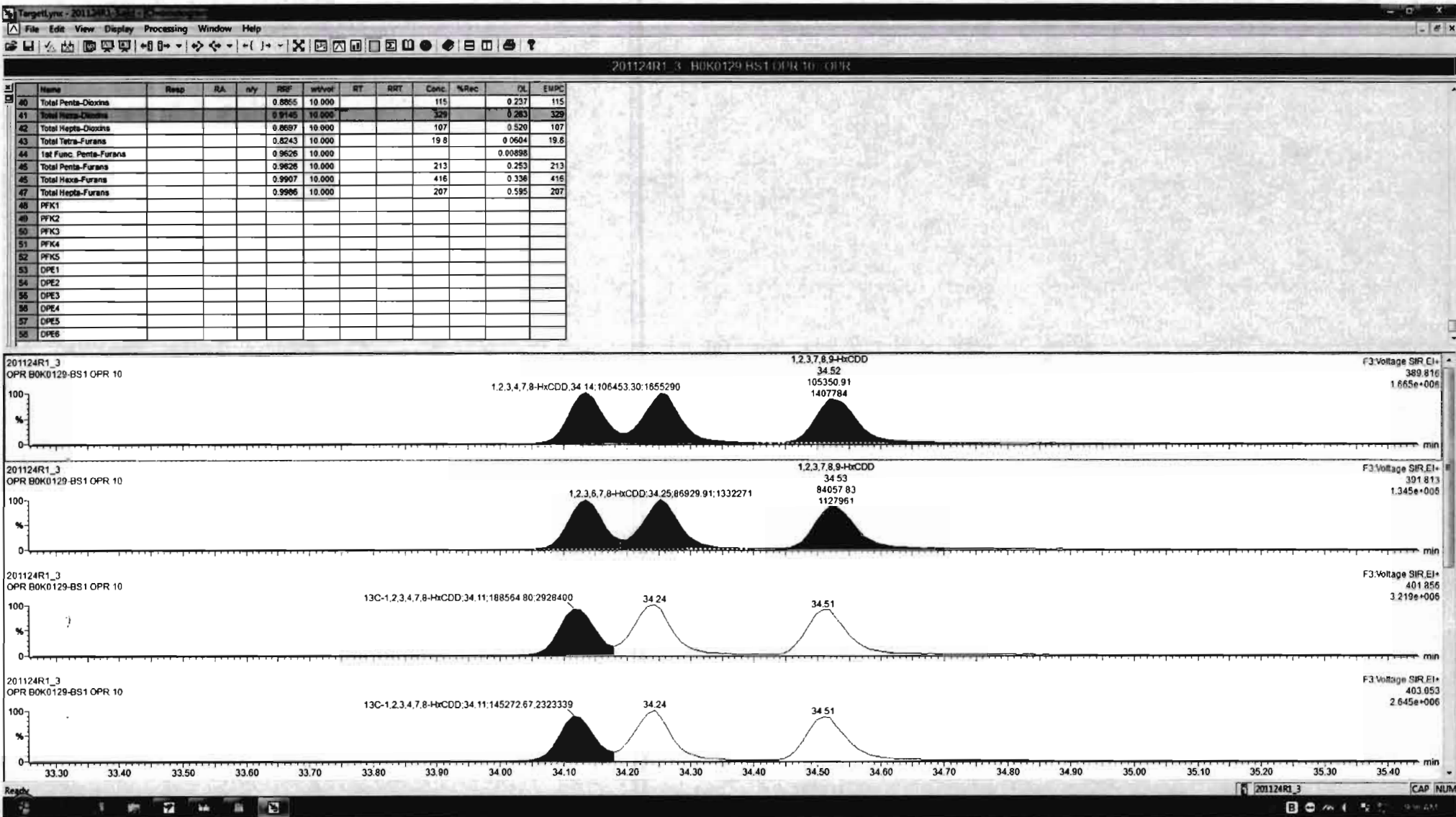
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201124R1_3





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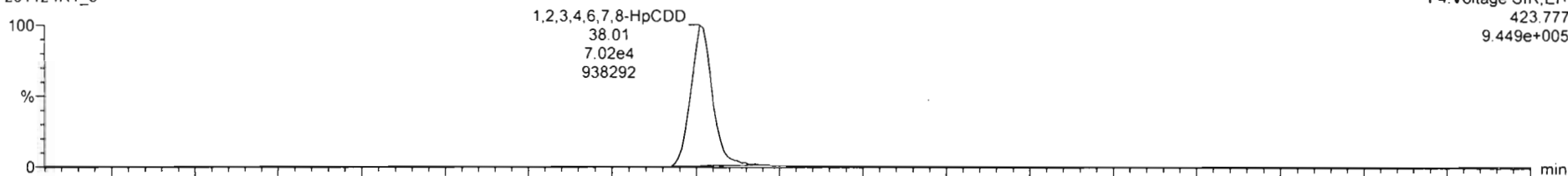
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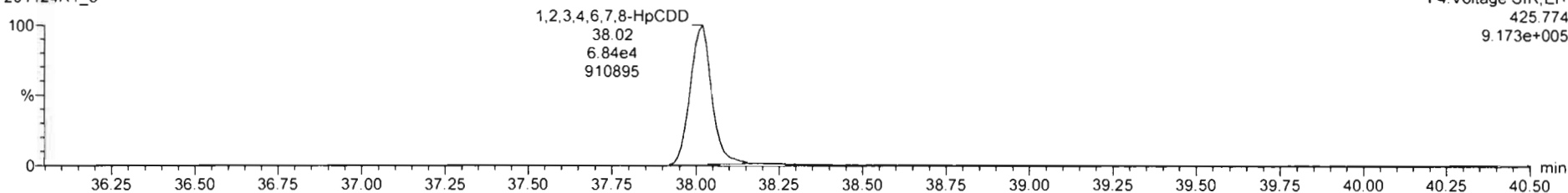
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1,2,3,4,6,7,8-HpCDD

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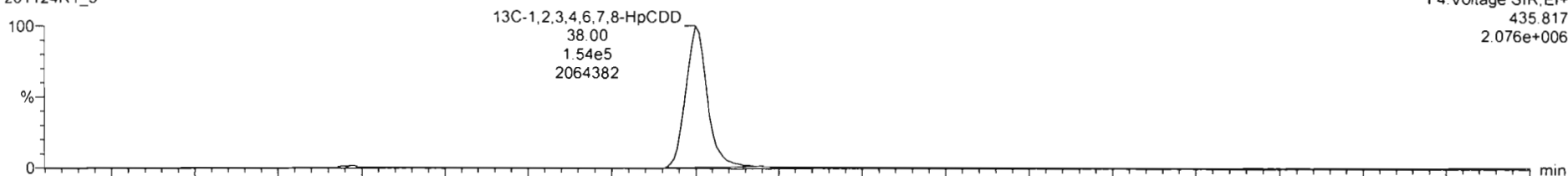


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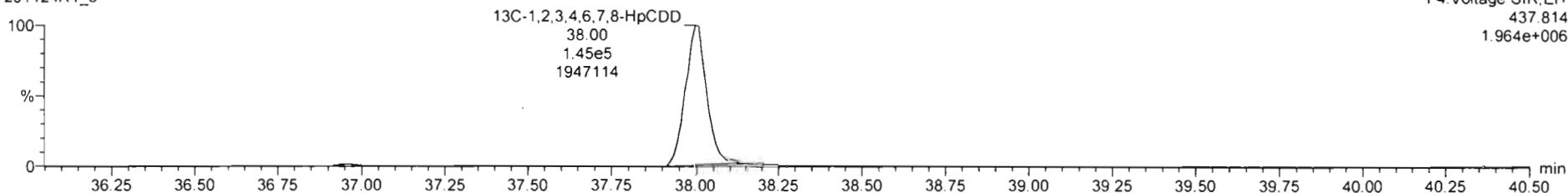


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201124R1_3



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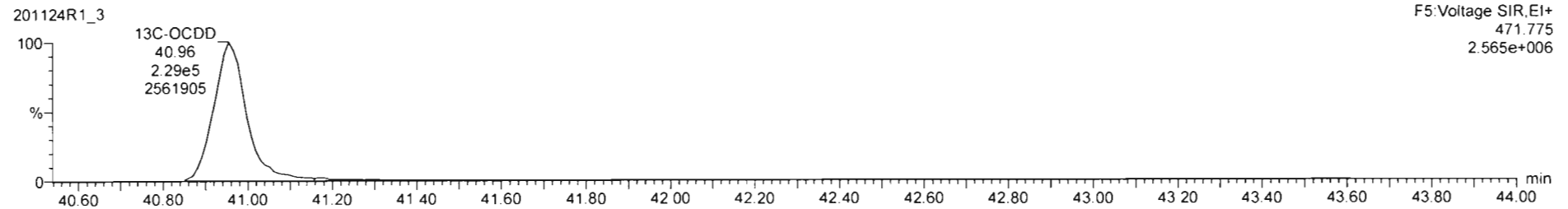
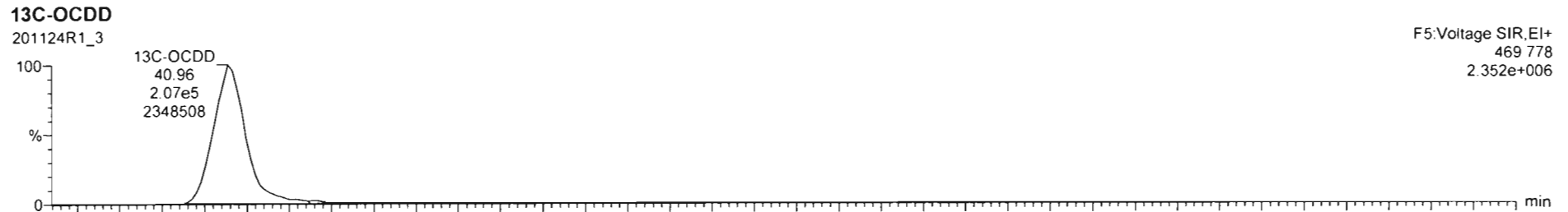
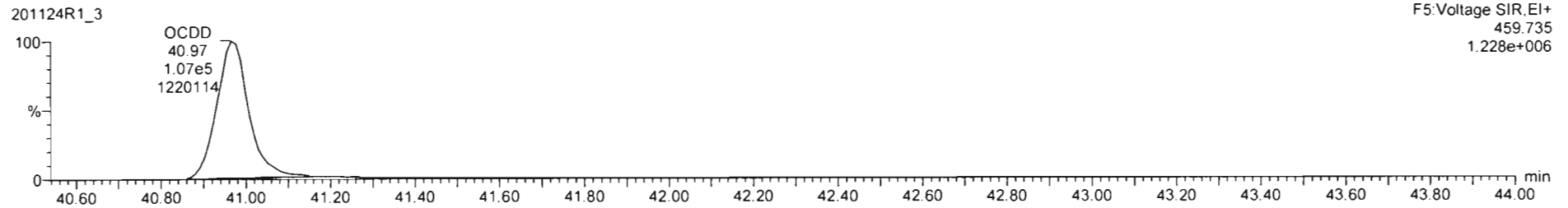
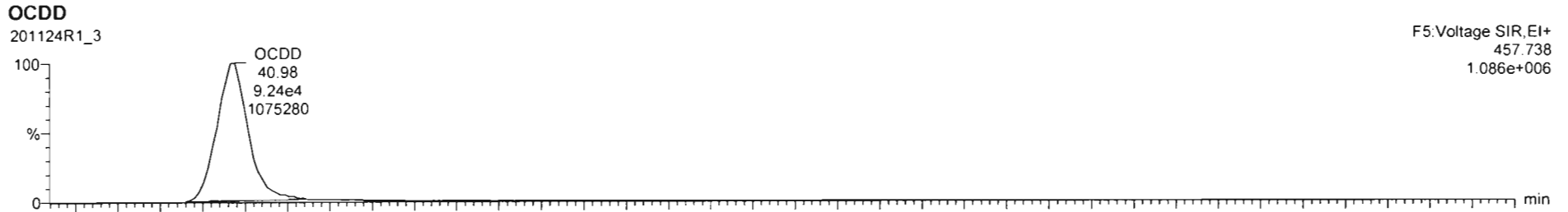


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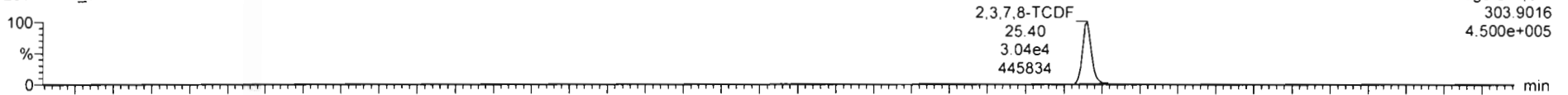
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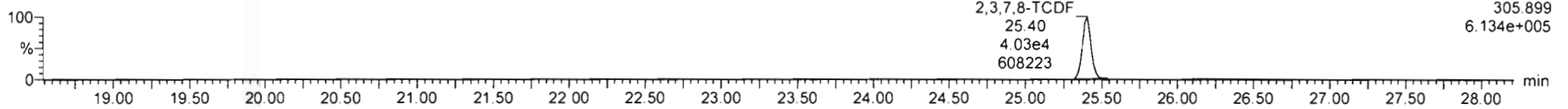
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2,3,7,8-TCDF

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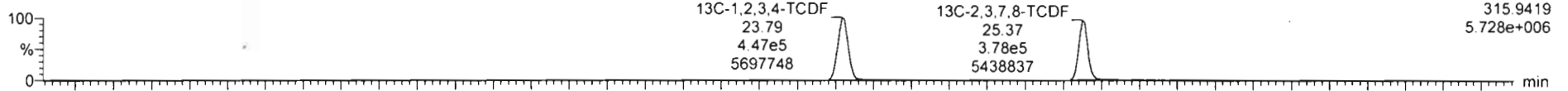


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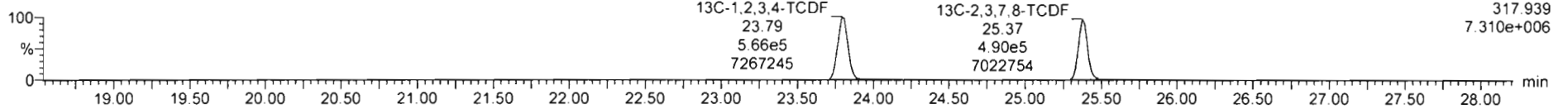


13C-2,3,7,8-TCDF

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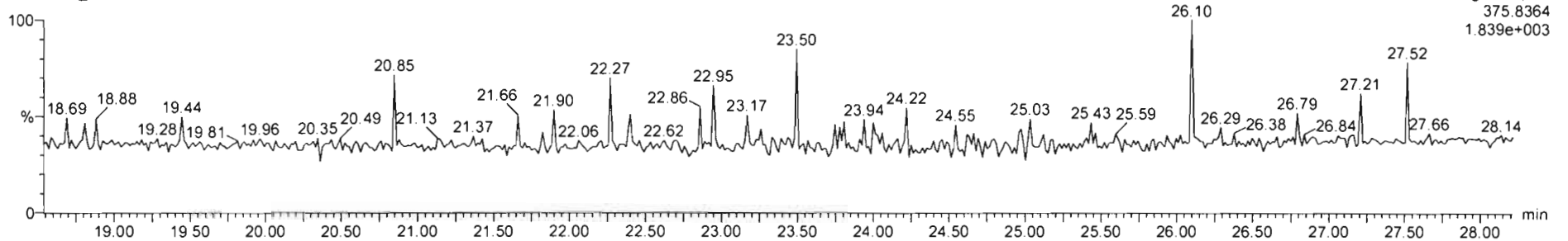


201124R1_3



DPE1

201124R1_3



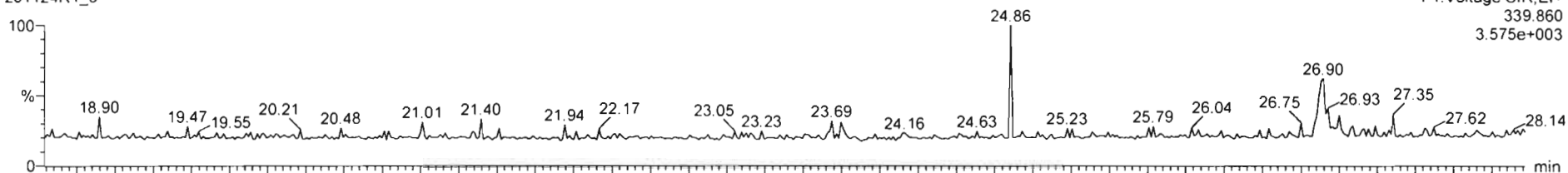
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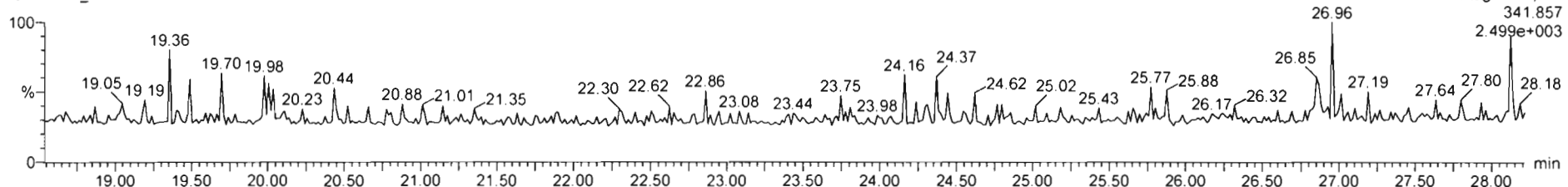
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201124R1_3

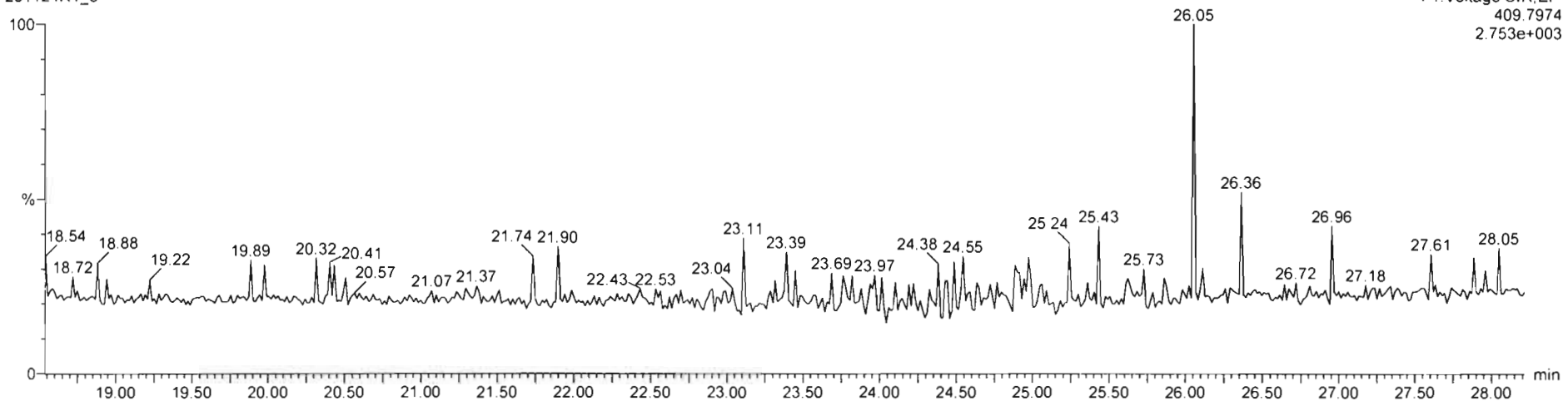


201124R1_3



DPE6

201124R1_3



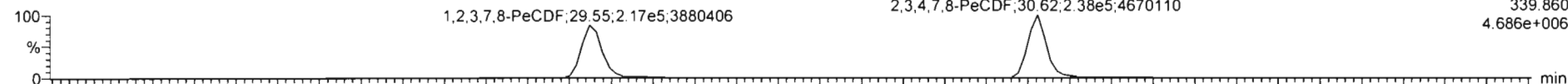
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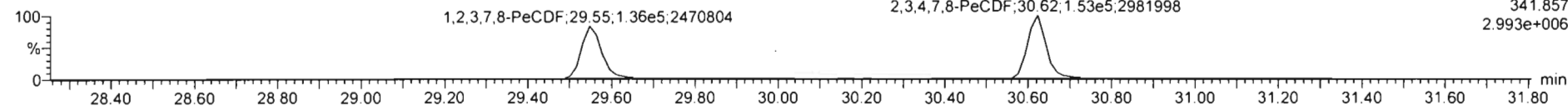
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1,2,3,7,8-PeCDF

201124R1_3

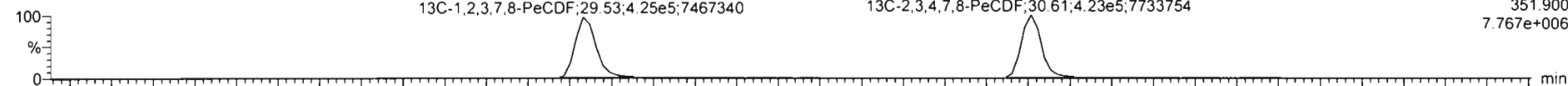


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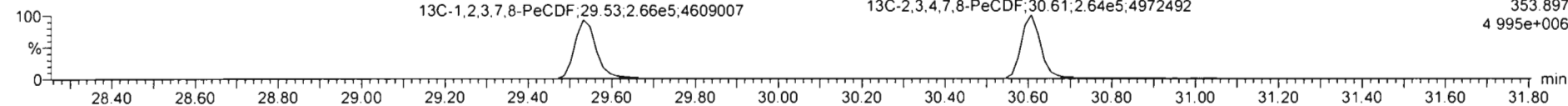


13C-1,2,3,7,8-PeCDF

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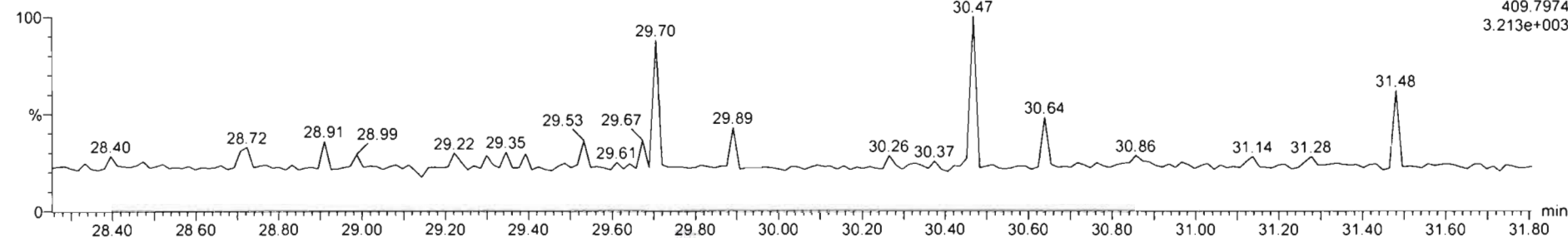


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DPE2

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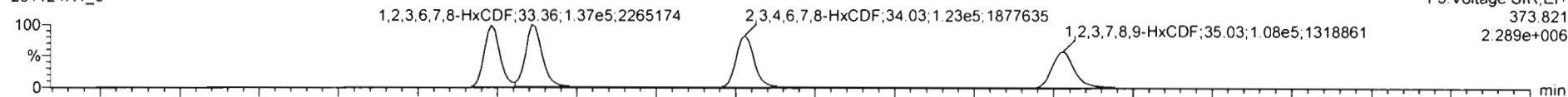
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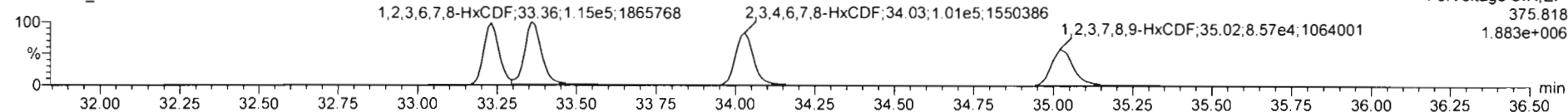
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1,2,3,4,7,8-HxCDF

201124R1_3

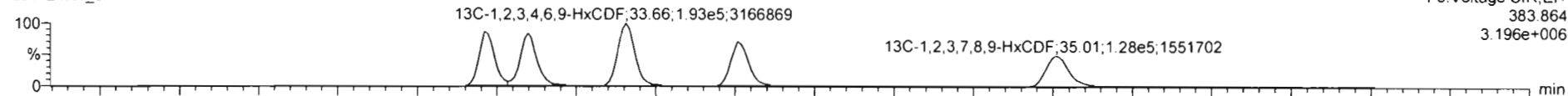


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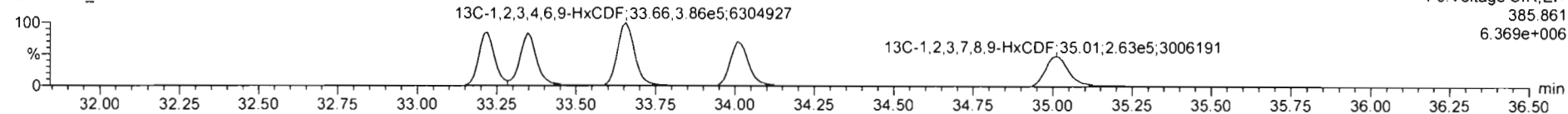


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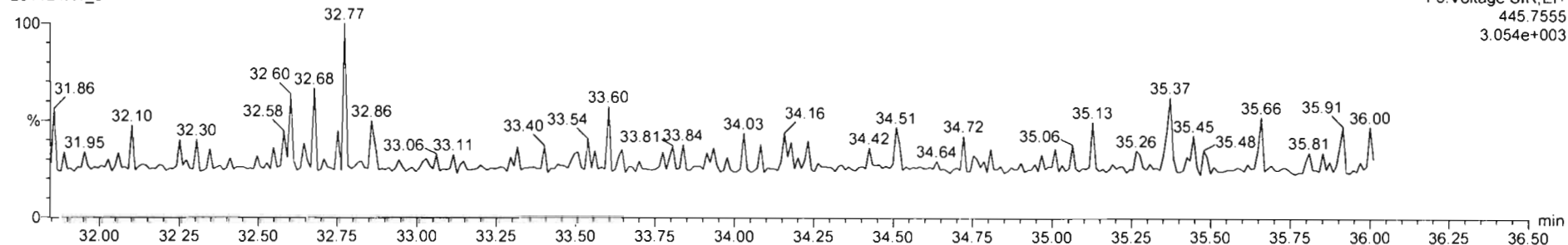


201124R1_3



DPE3

201124R1_3

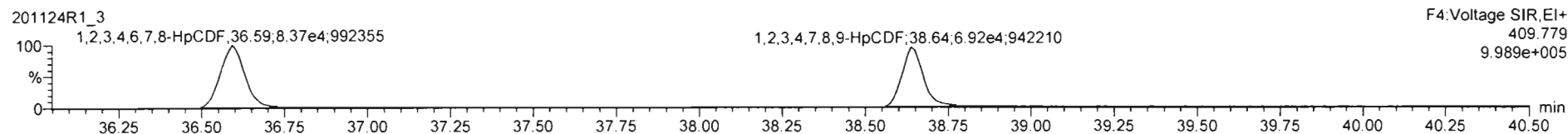
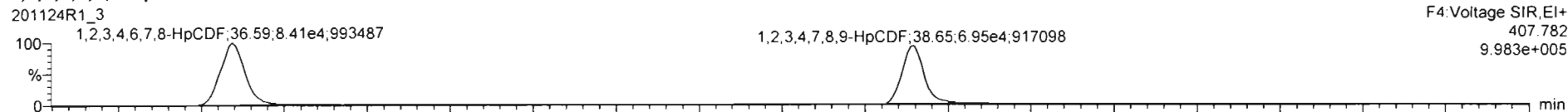


Dataset: Untitled

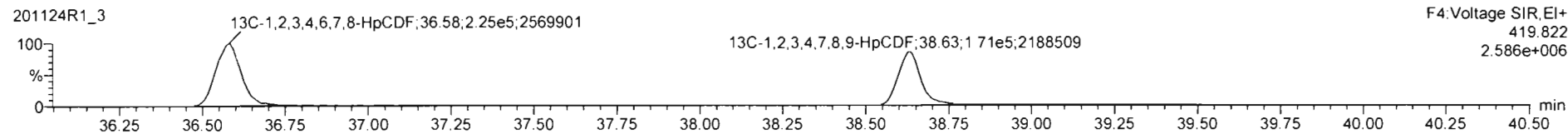
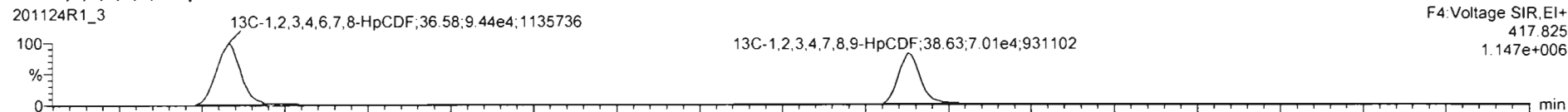
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Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

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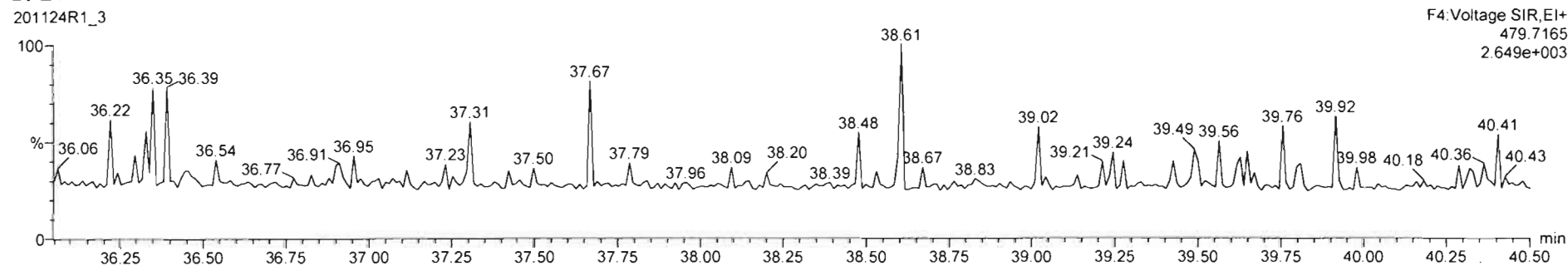
1,2,3,4,6,7,8-HpCDF



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



DPE4



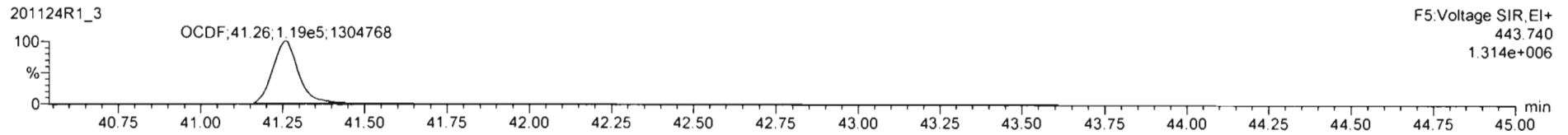
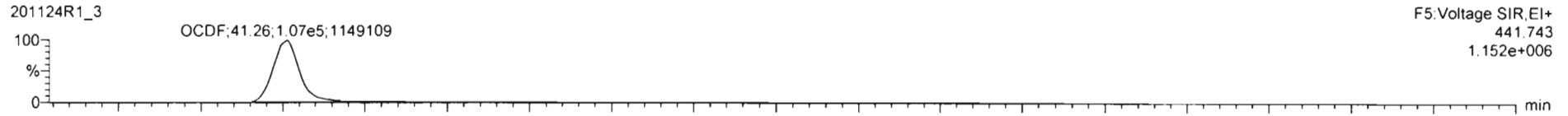
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Last Altered: Wednesday, November 25, 2020 07:04:08 Pacific Standard Time

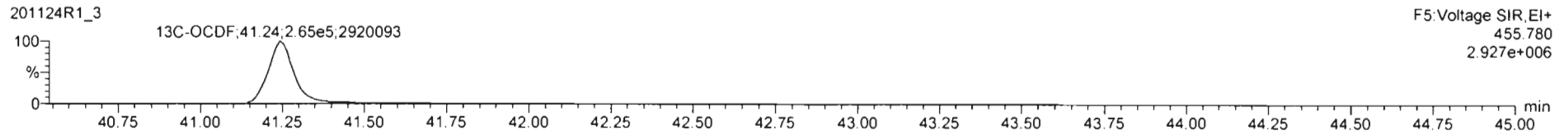
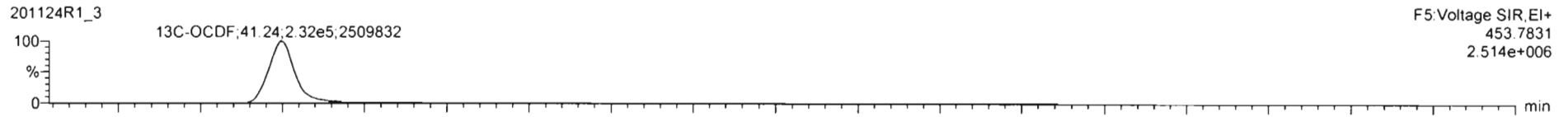
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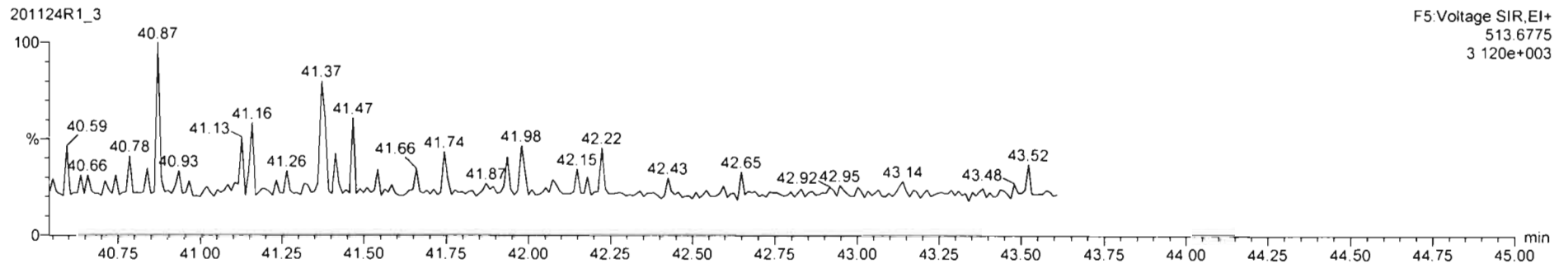
OCDF



13C-OCDF



DPE5



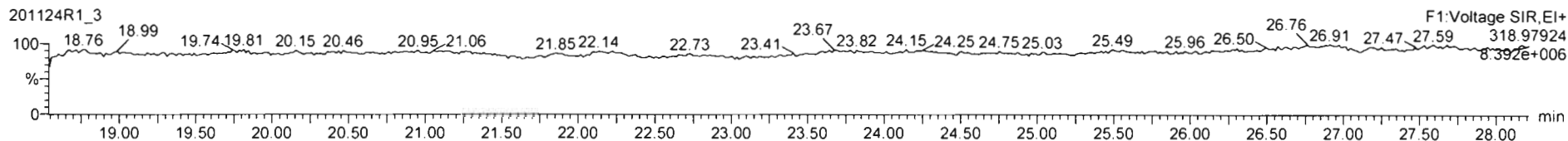
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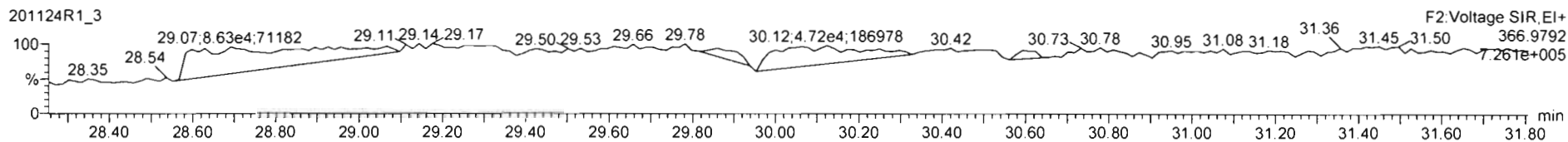
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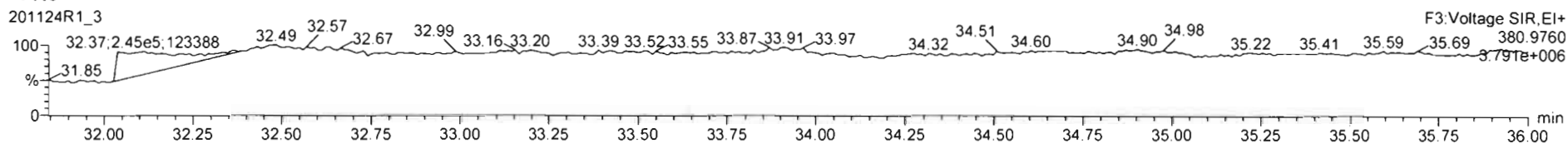
PFK1



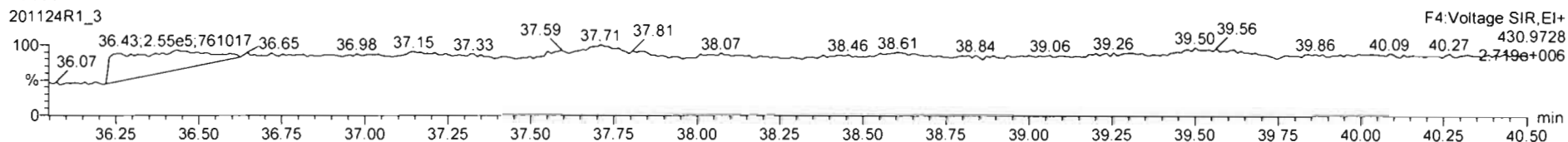
PFK2



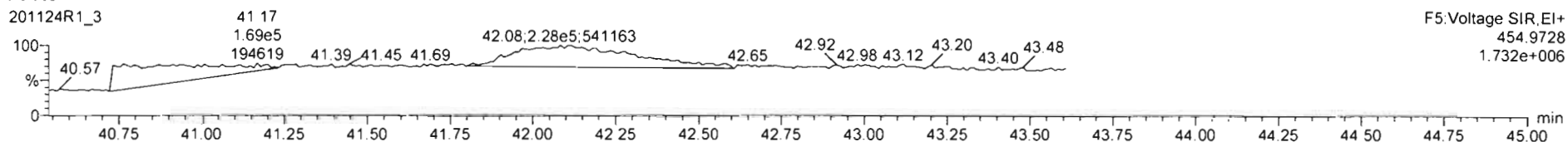
PFK3



PFK4



PFK5



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												

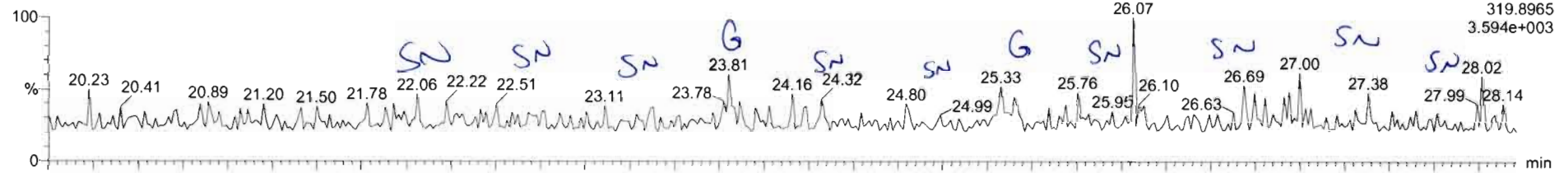
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

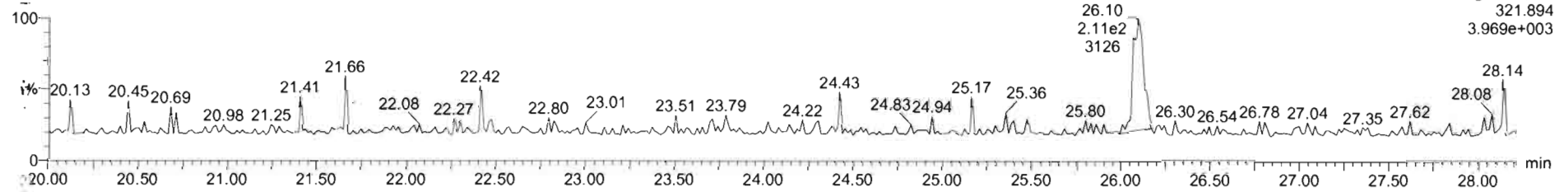
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2,3,7,8-TCDD

201125R1_6

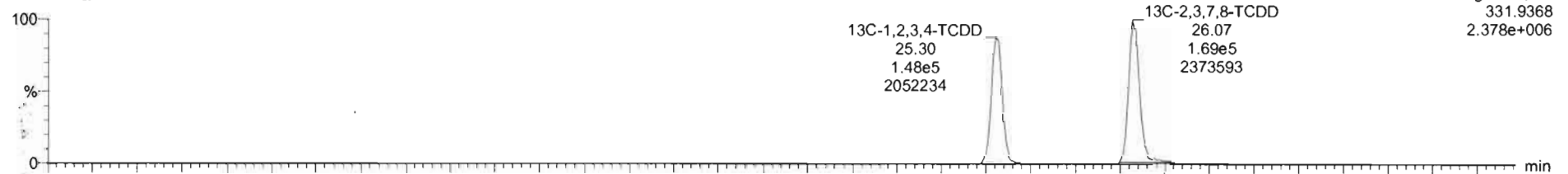


201125R1_6

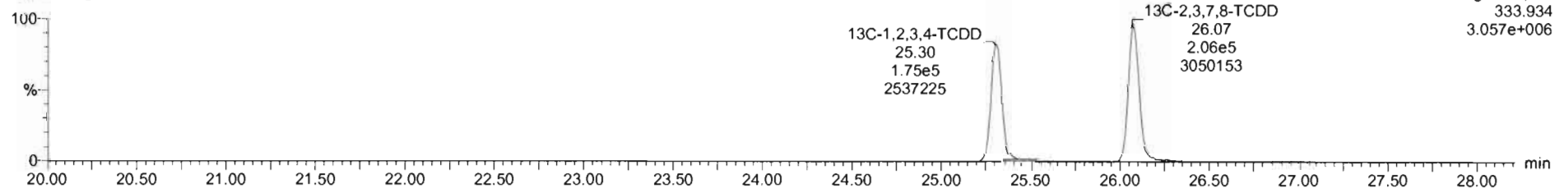


13C-2,3,7,8-TCDD

201125R1_6



201125R1_6



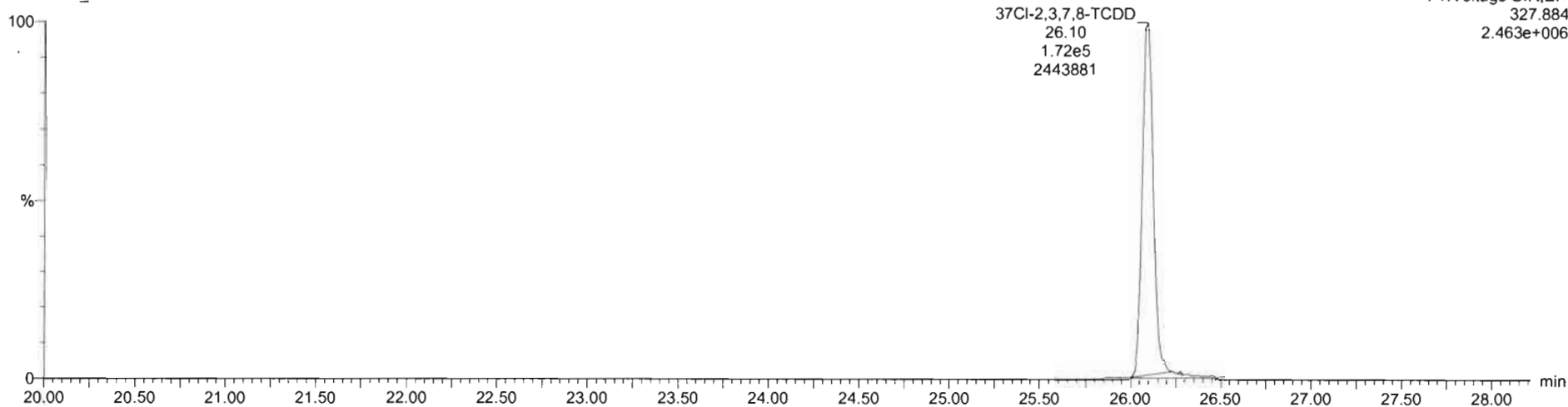
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Last Altered: Thursday, November 26, 2020 07:36:03 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

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

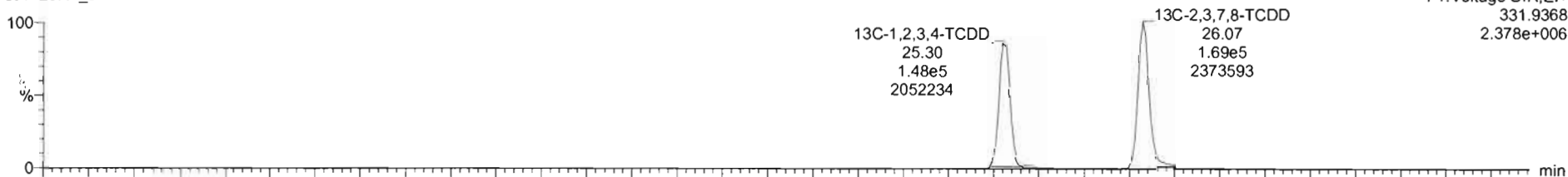
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201125R1_6

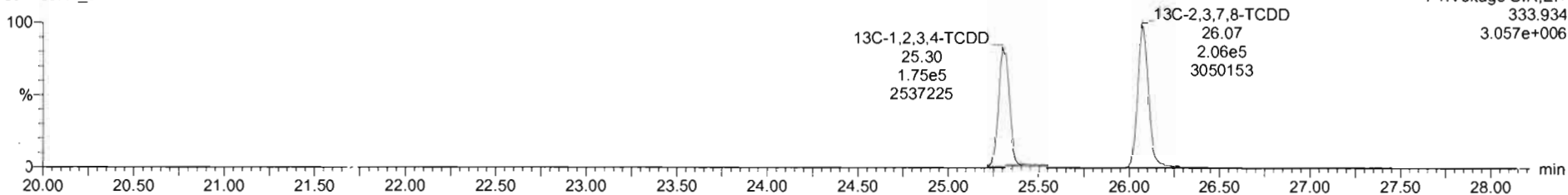


13C-1,2,3,4-TCDD

201125R1_6



201125R1_6



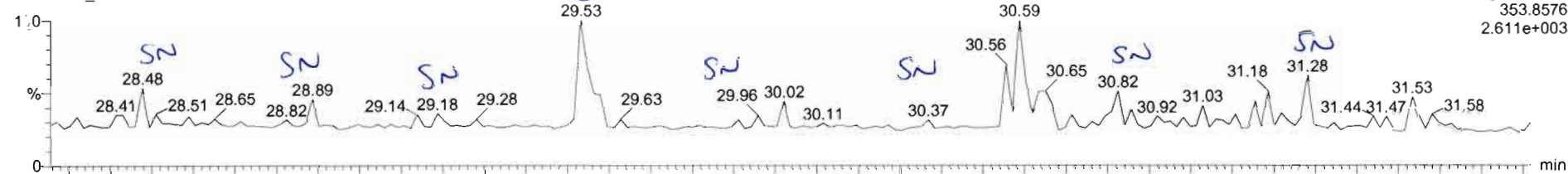
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

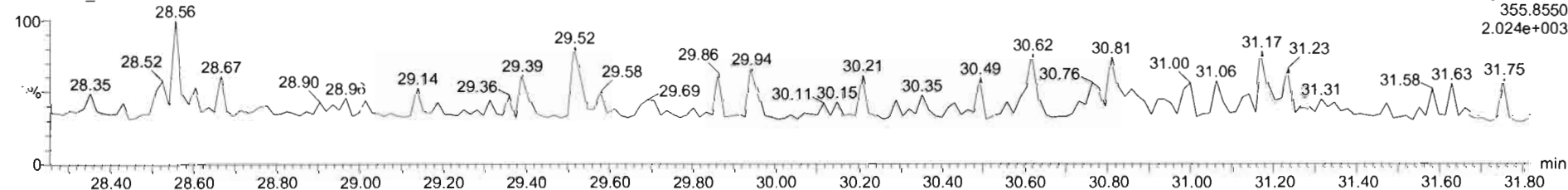
Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD

201125R1_6

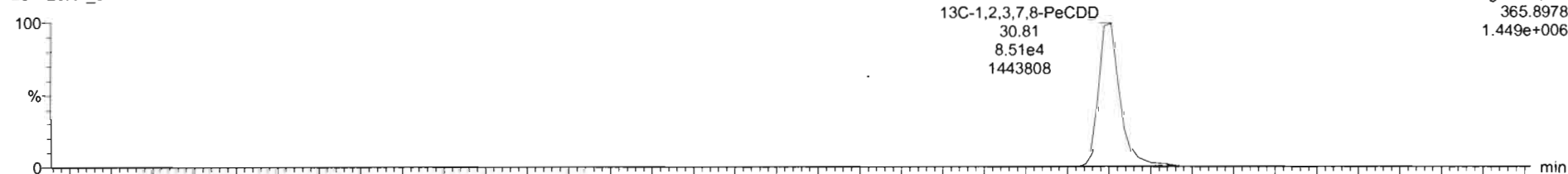


201125R1_6

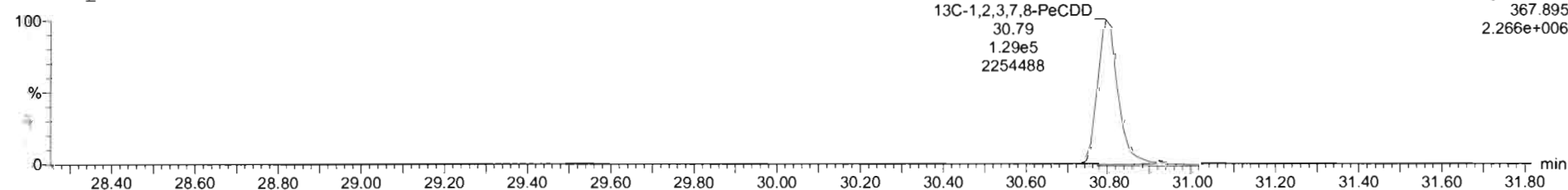


13C-1,2,3,7,8-PeCDD

201125R1_6



201125R1_6

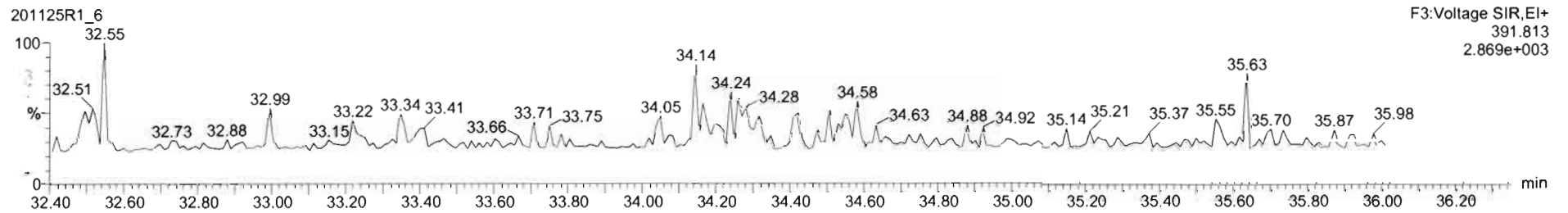
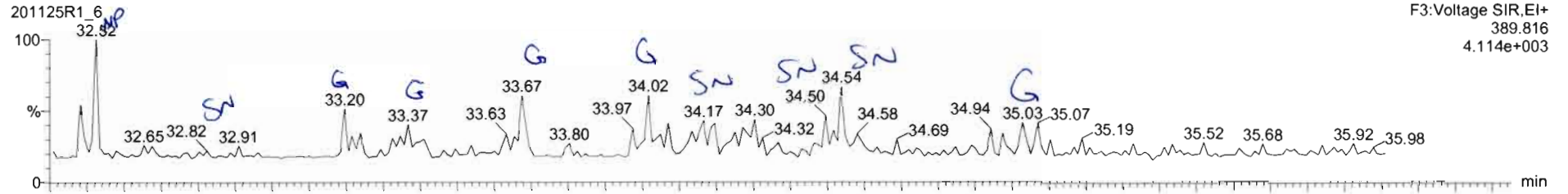


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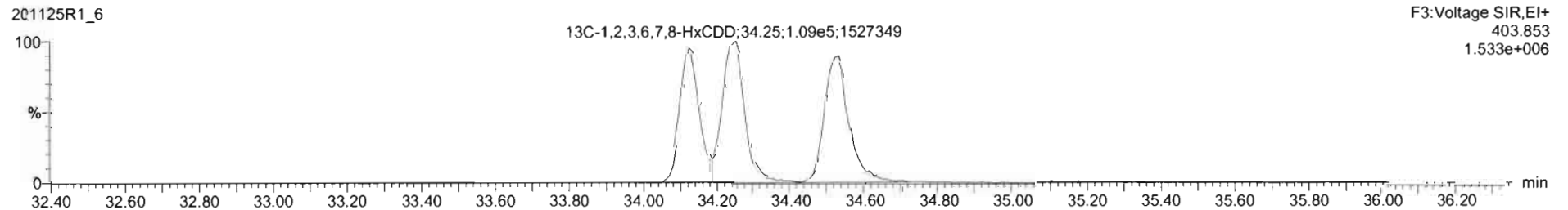
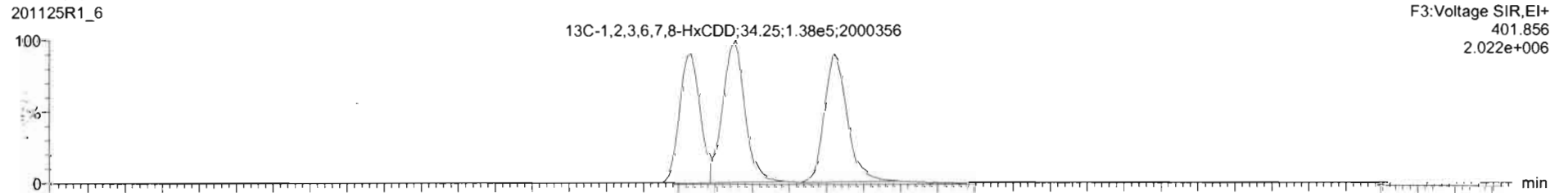
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

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



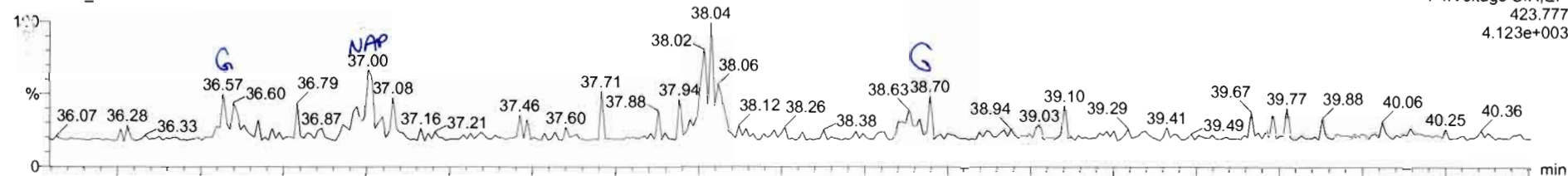
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Last Altered: Thursday, November 26, 2020 07:36:03 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

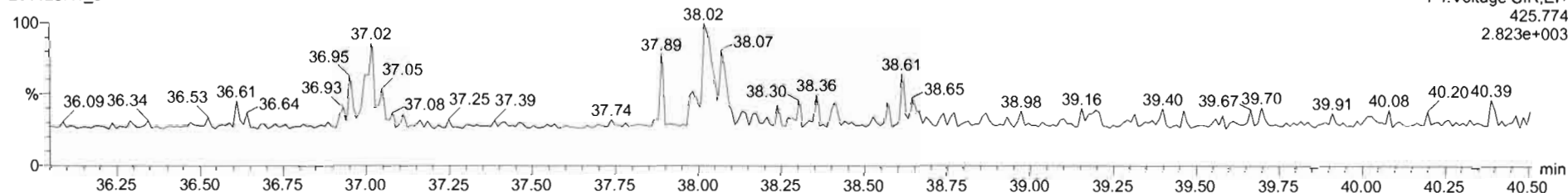
Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank

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

201125R1_6

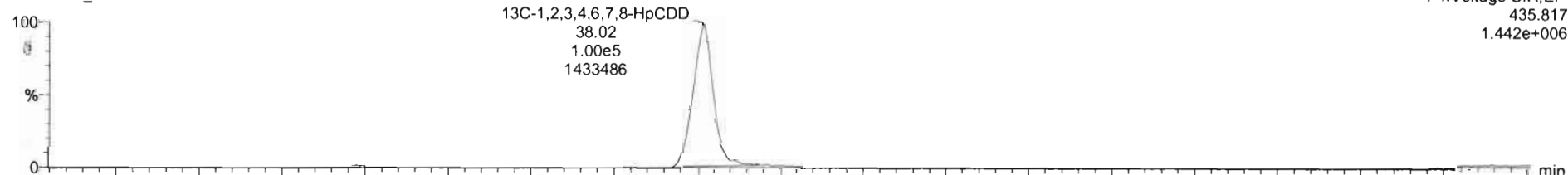


201125R1_6

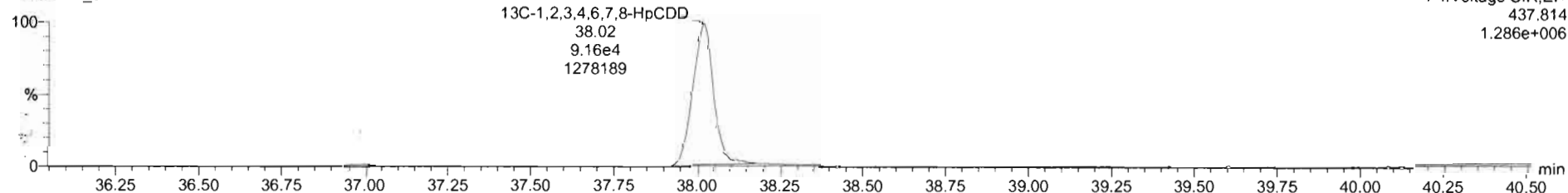


13C-1,2,3,4,6,7,8-HpCDD

201125R1_6



201125R1_6

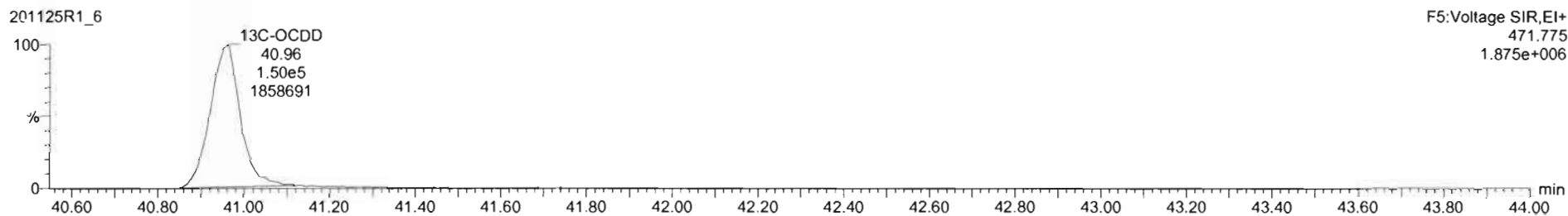
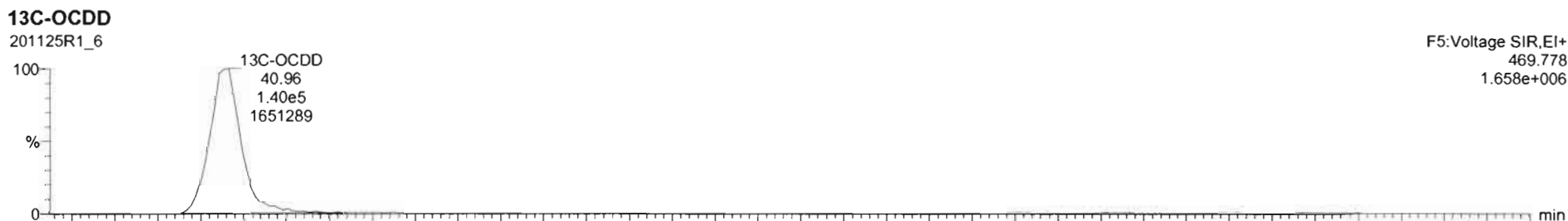
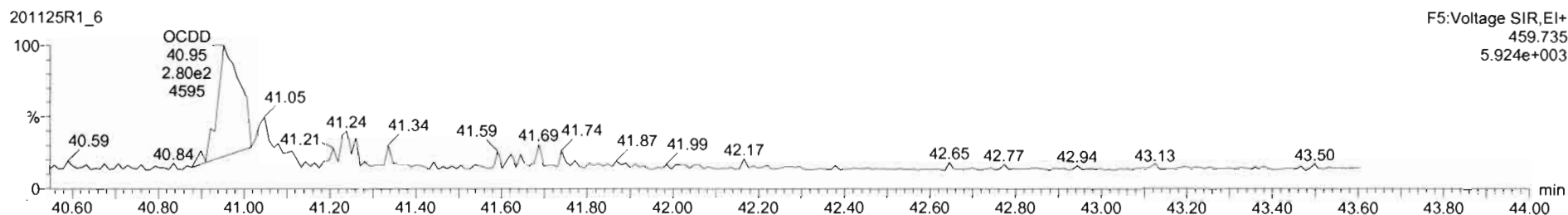
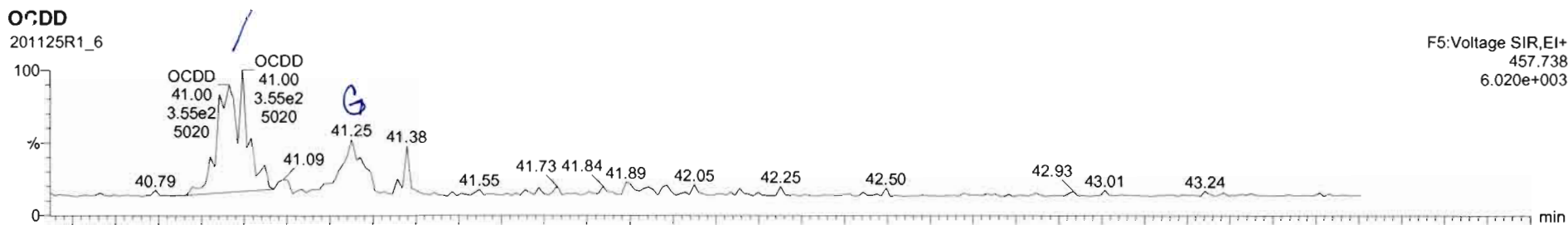


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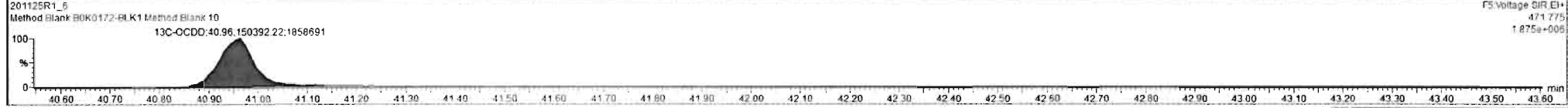
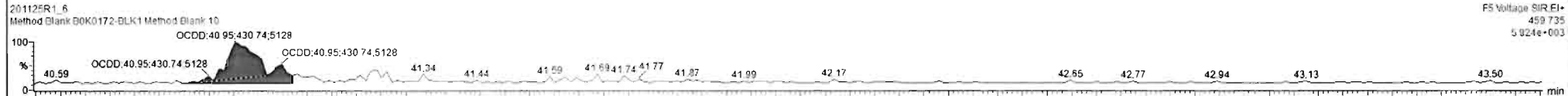
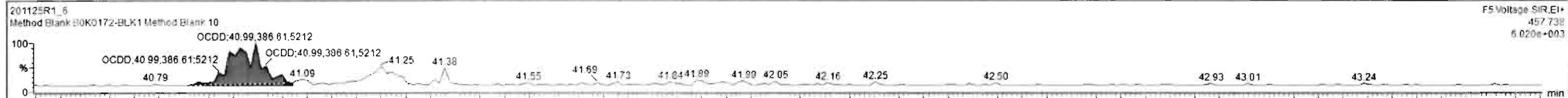
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

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



#	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	



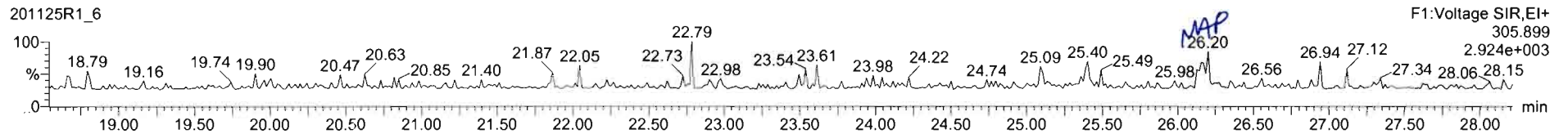
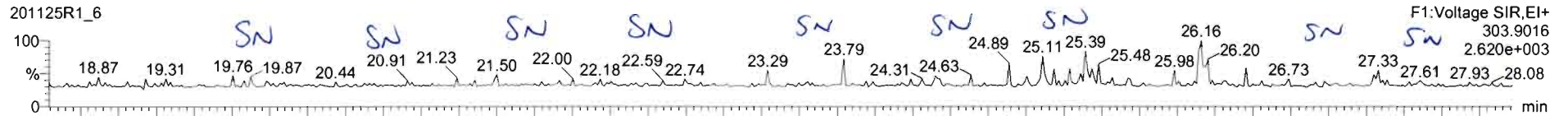
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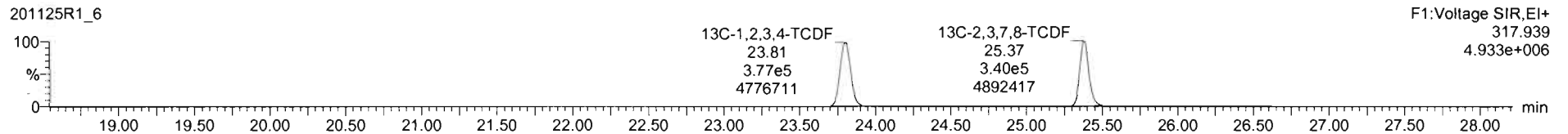
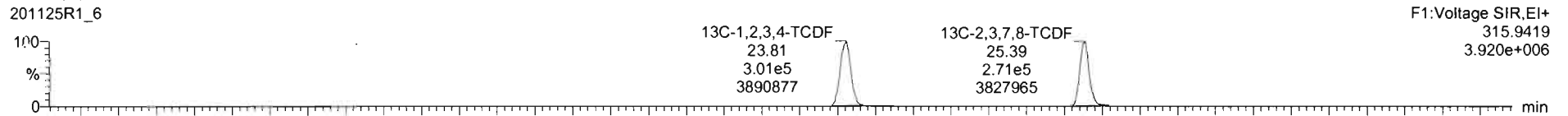
Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

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

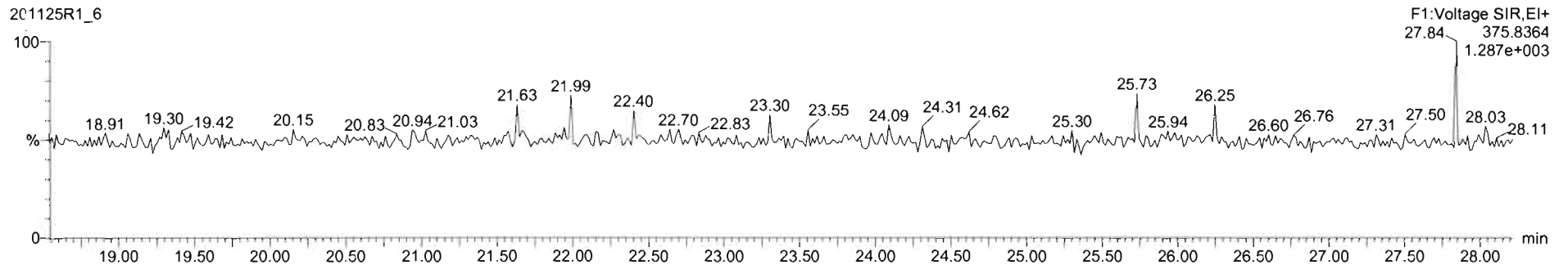
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

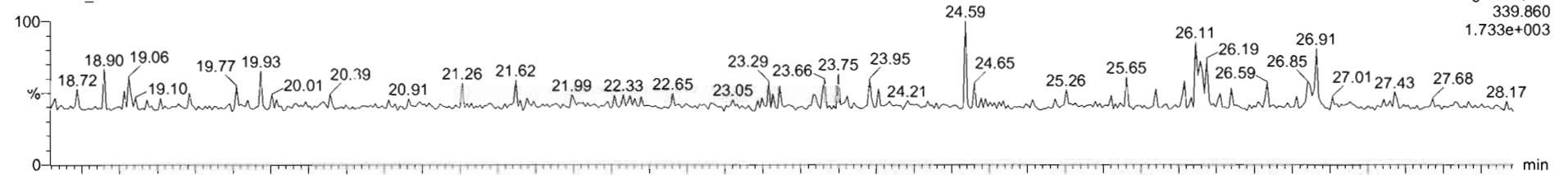
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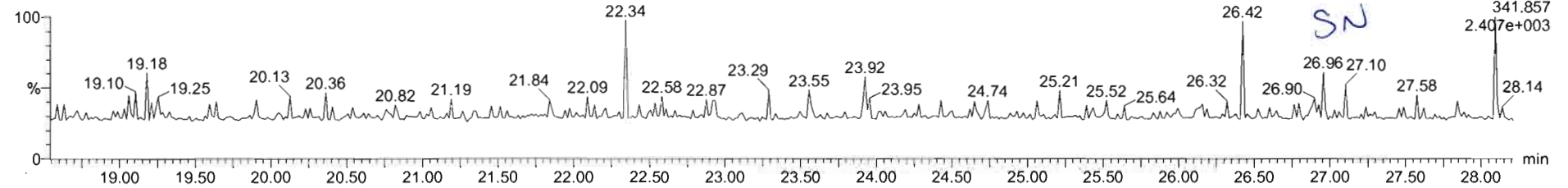
Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank

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201125R1_6

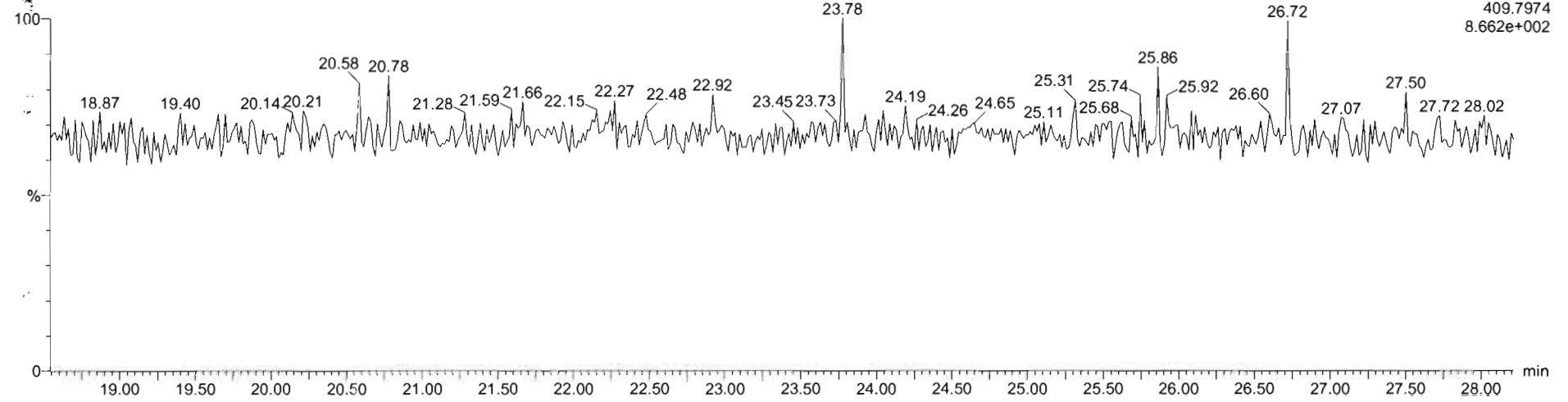


201125R1_6



DPE6

201125R1_6

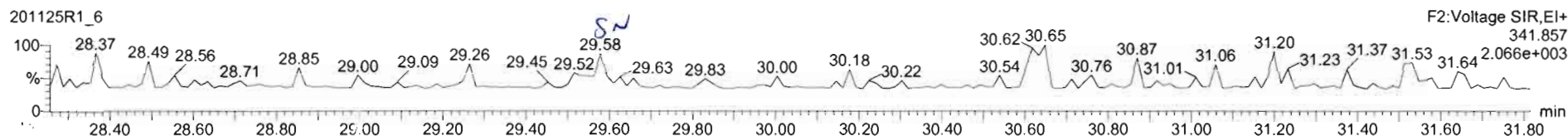
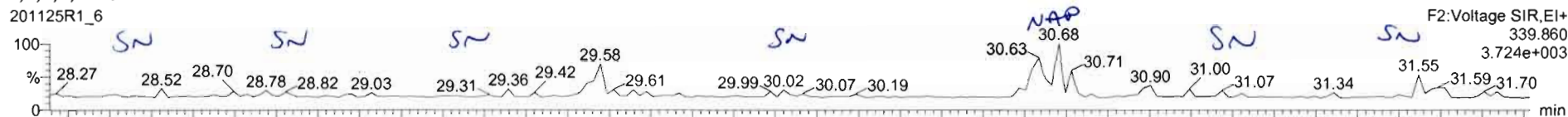


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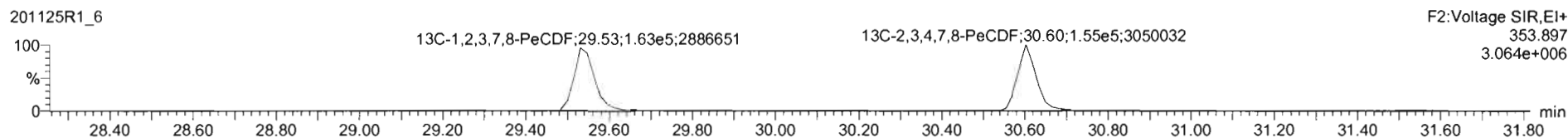
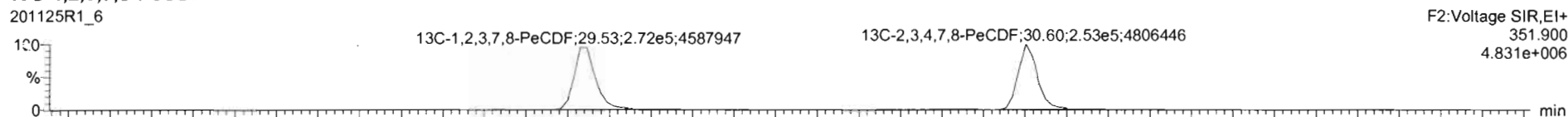
Last Altered: Thursday, November 26, 2020 07:36:03 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

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

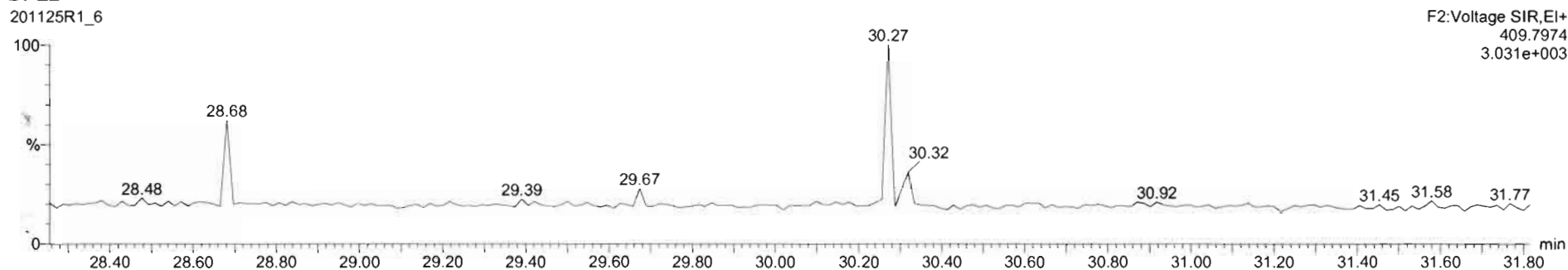
1,2,3,7,8-PeCDF



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



DPE2



Dataset: Untitled

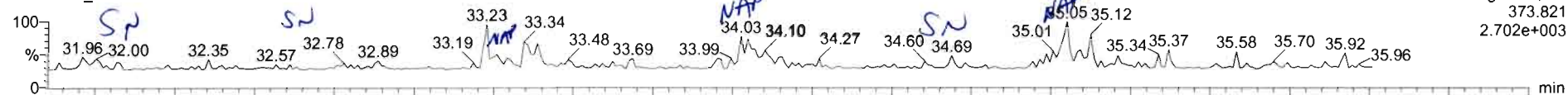
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

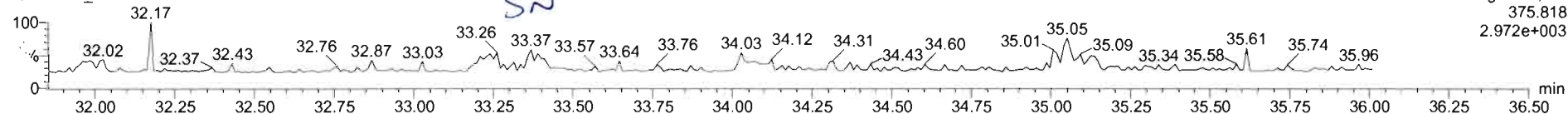
Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank

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

201125R1_6

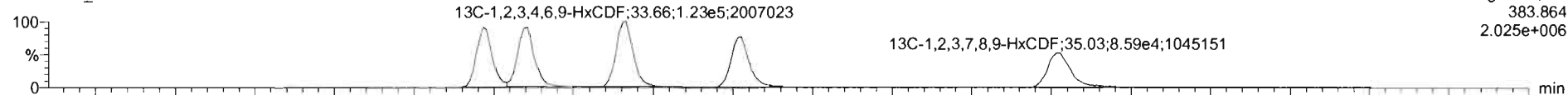


201125R1_6

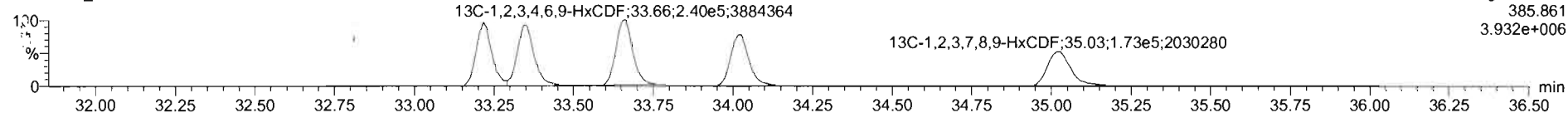


13C-1,2,3,4,7,8-HxCDF

201125R1_6

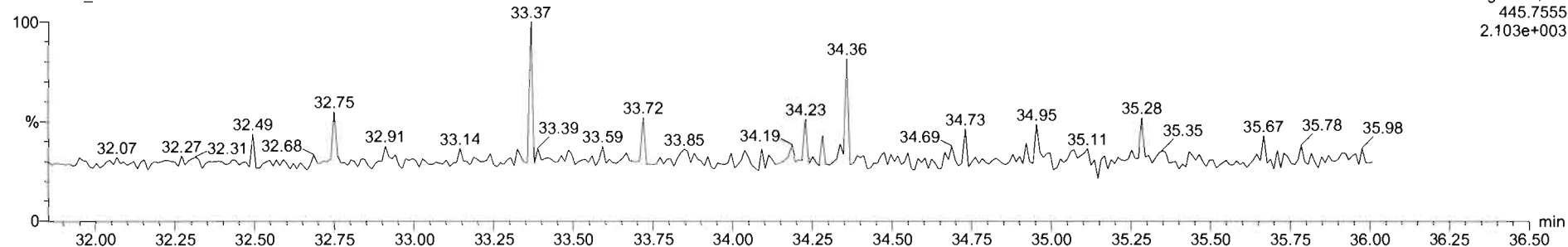


201125R1_6



DPE3

201125R1_6

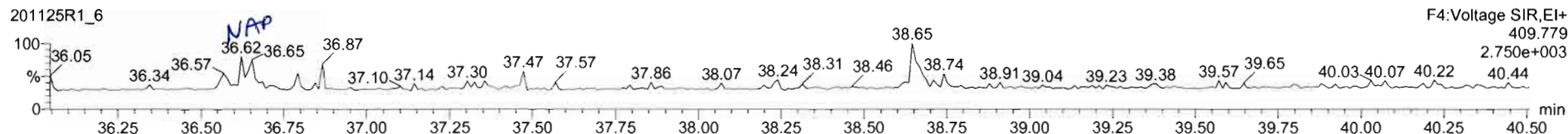
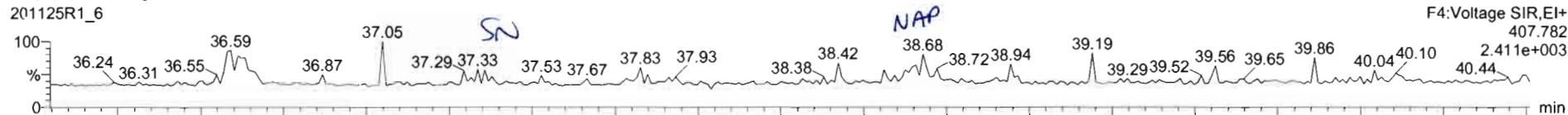


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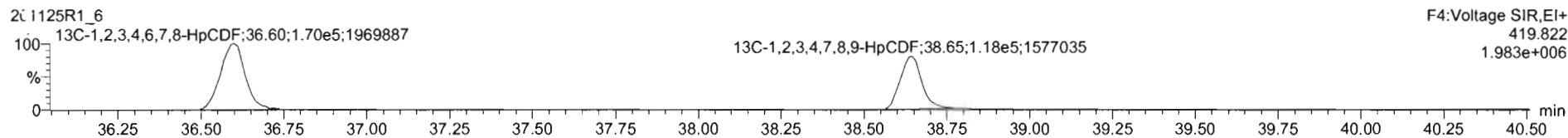
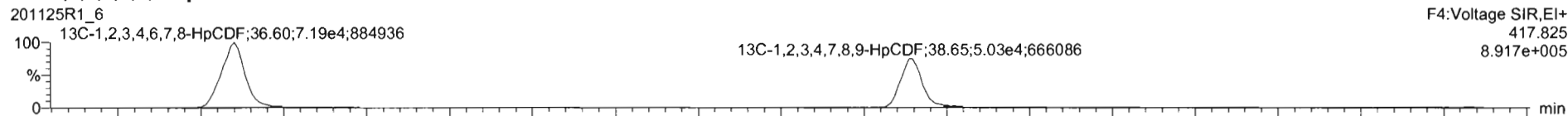
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Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank

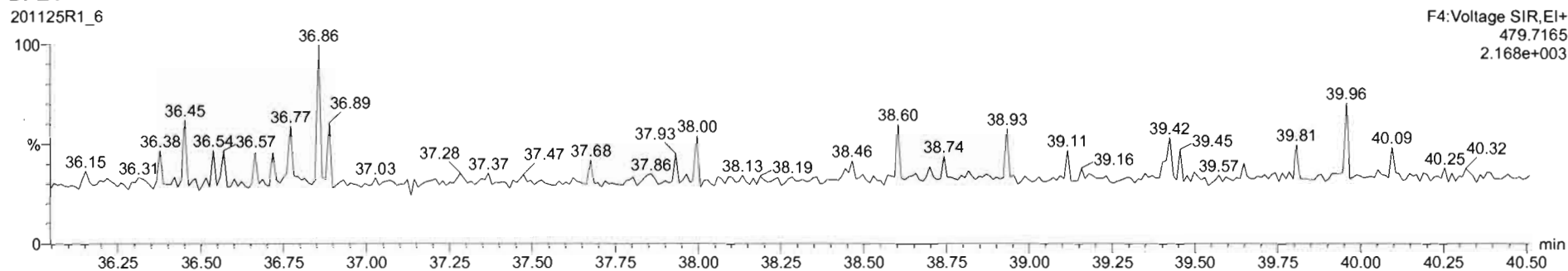
1,2,3,4,6,7,8-HpCDF



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



DPE4

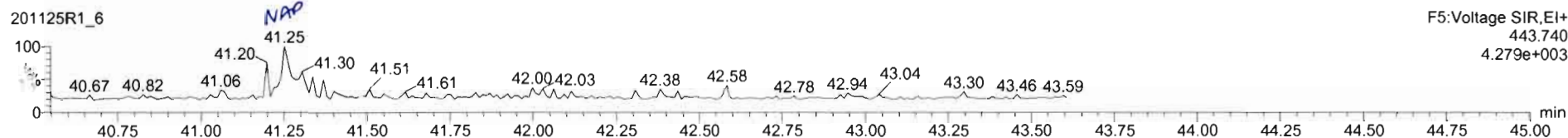
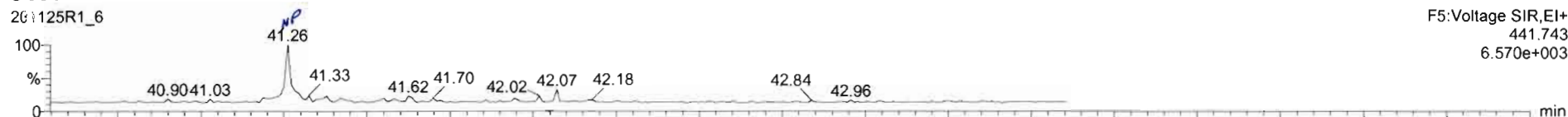


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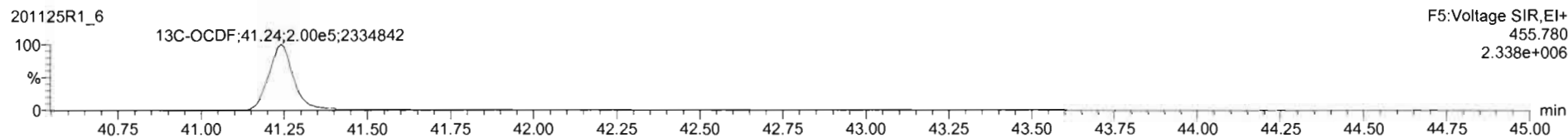
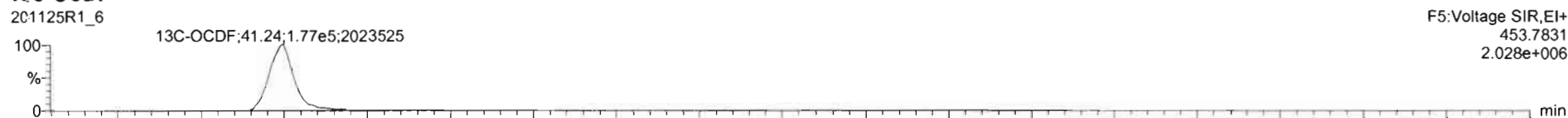
Last Altered: Thursday, November 26, 2020 07:36:03 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

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

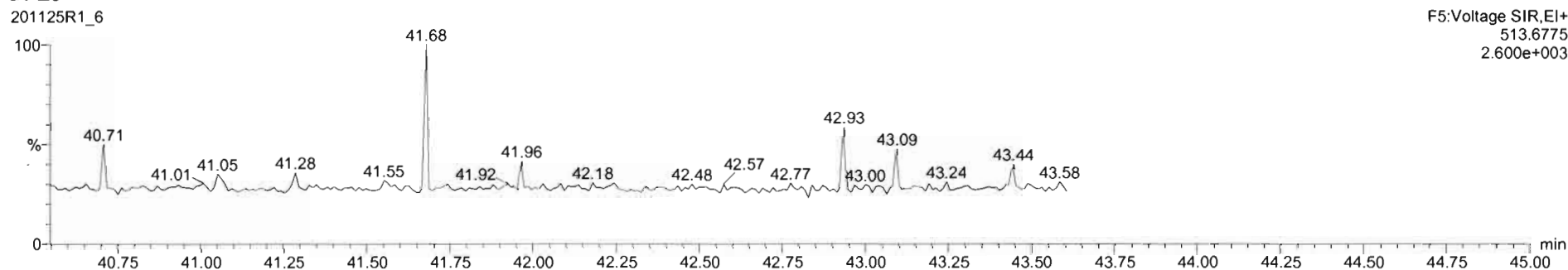
OCDF



13C-OCDF



DPE5

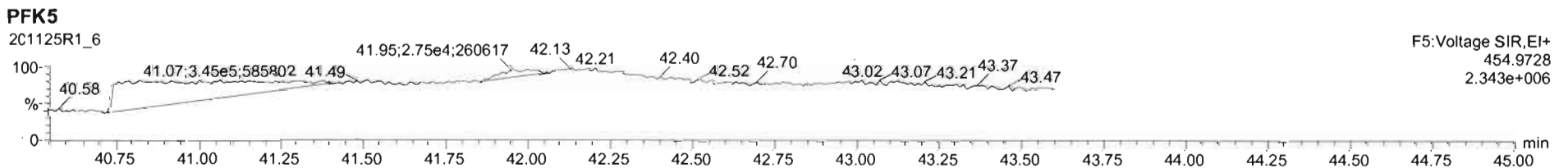
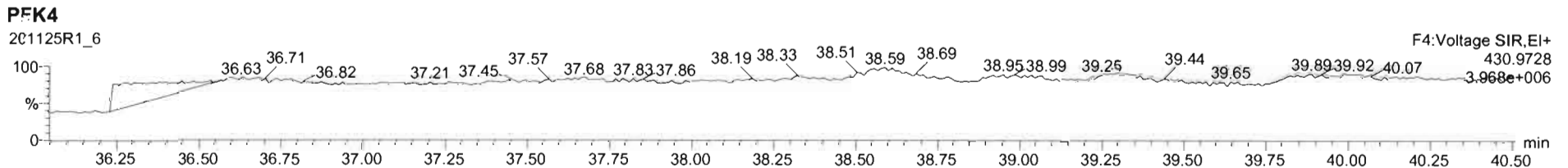
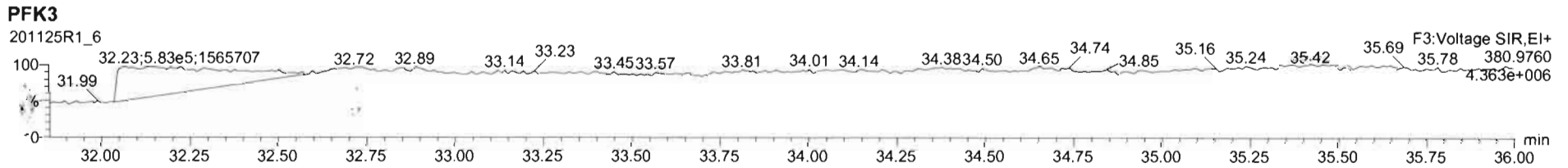
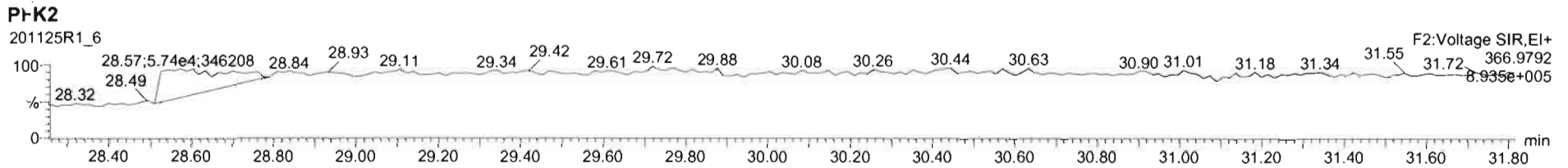
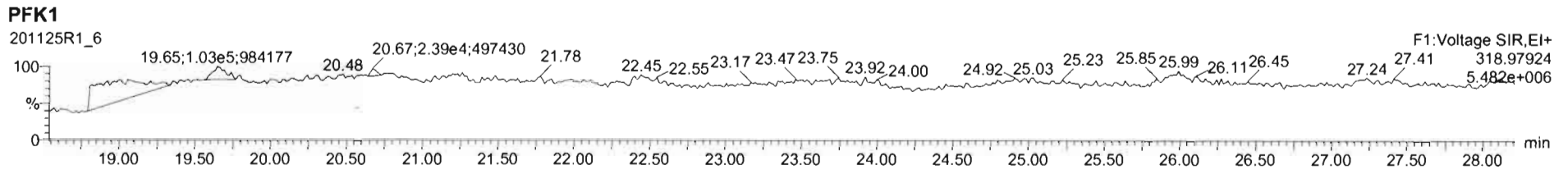


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Last Altered: Thursday, November 26, 2020 07:36:03 Pacific Standard Time

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



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	

Dataset: Untitled

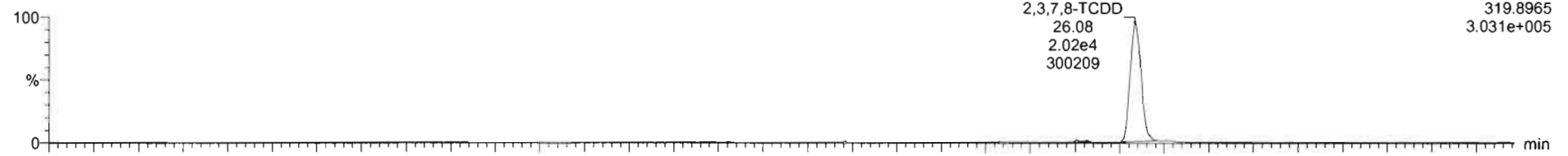
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

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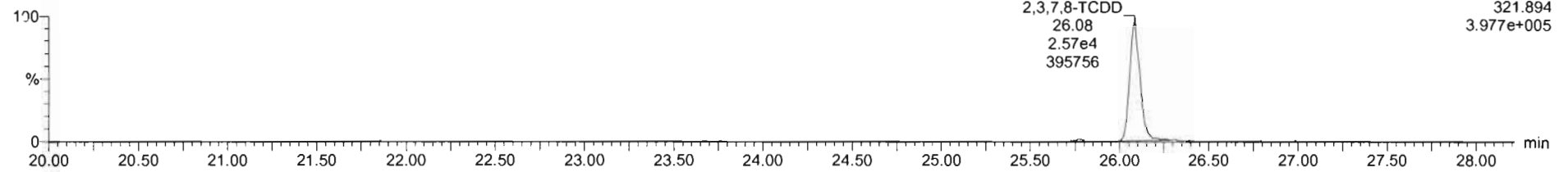
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2,3,7,8-TCDD

201125R1_4

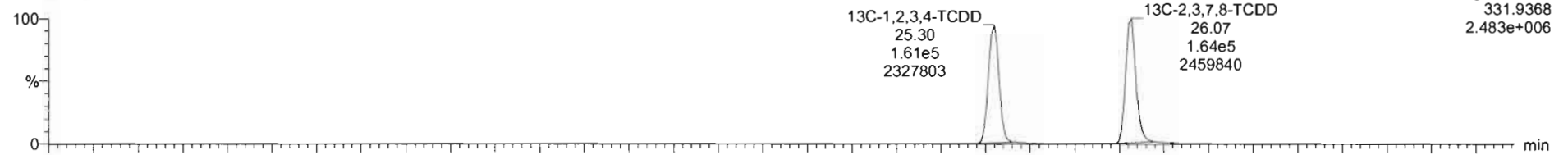


201125R1_4

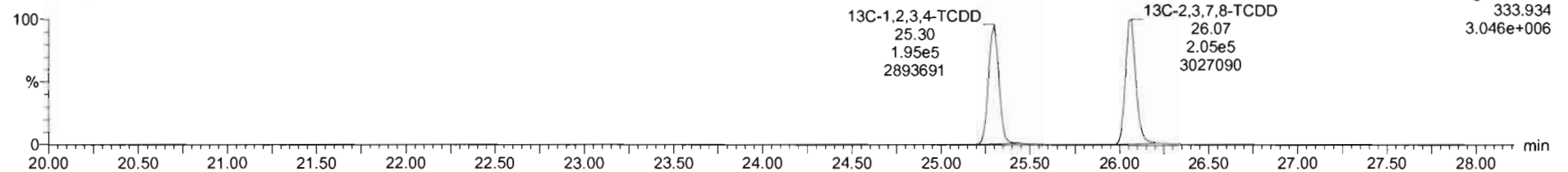


¹³C-2,3,7,8-TCDD

201125R1_4



201125R1_4



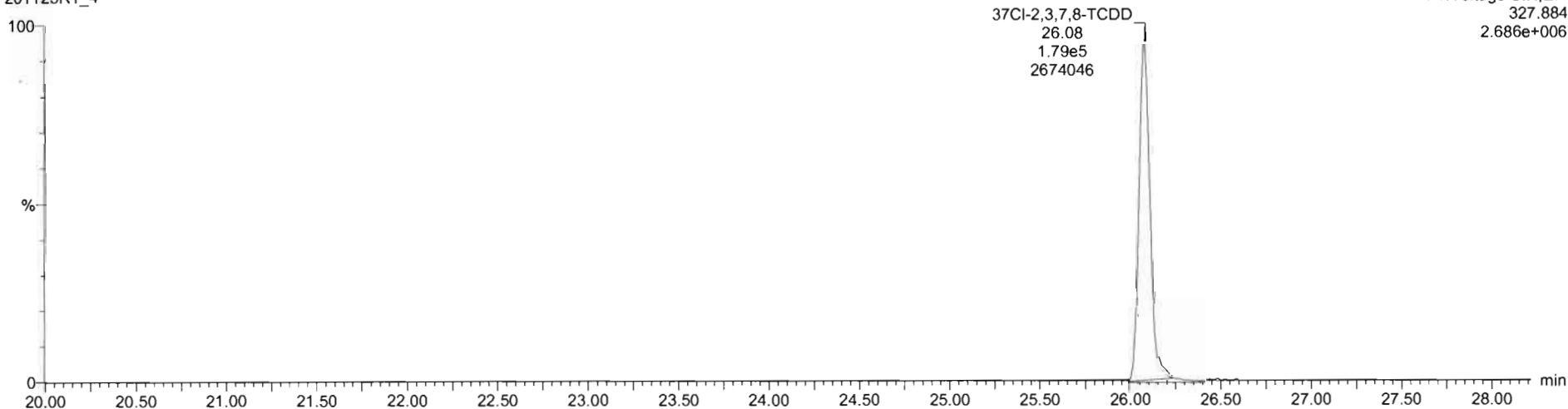
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

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

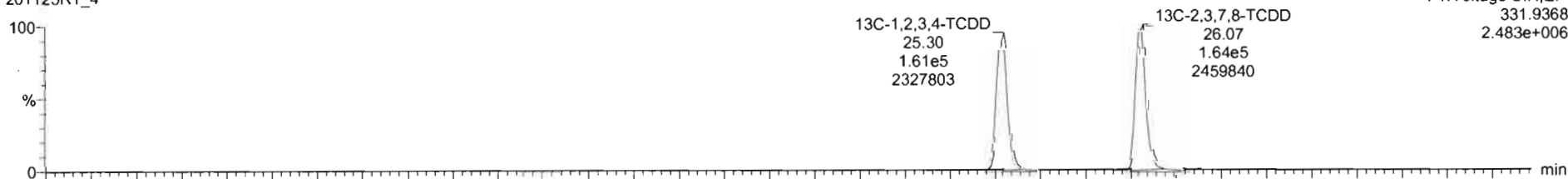
37Cl-2,3,7,8-TCDD

201125R1_4

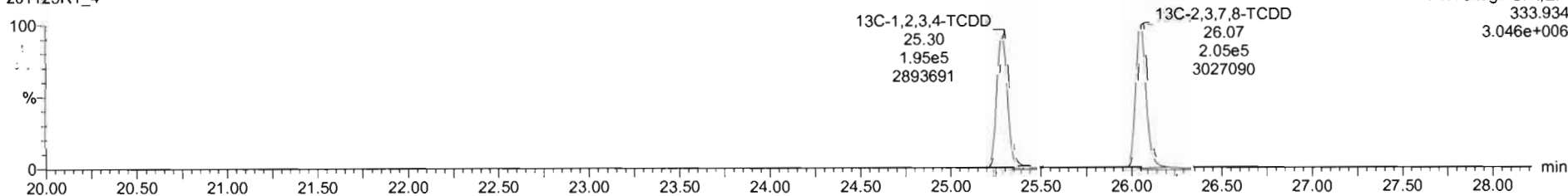


13C-1,2,3,4-TCDD

201125R1_4



201125R1_4



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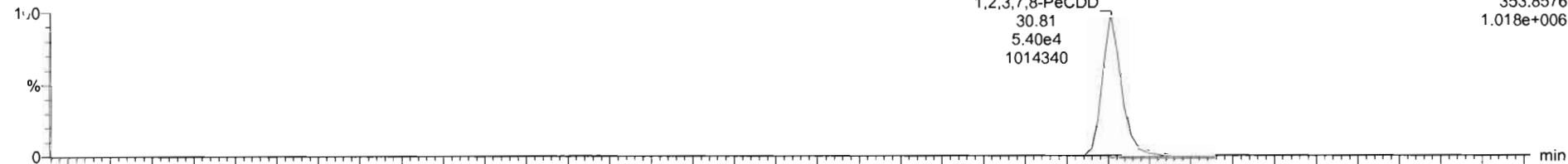
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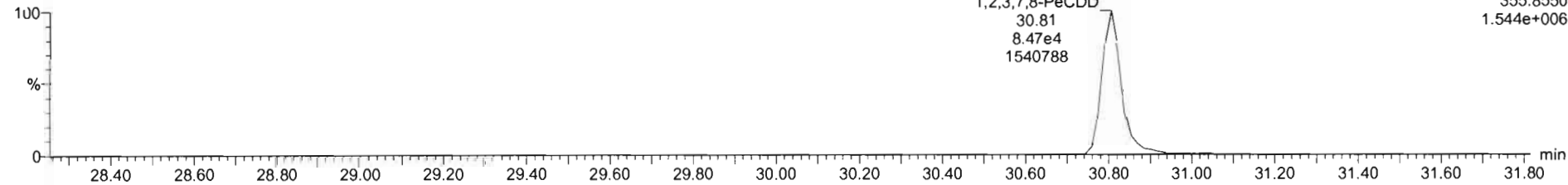
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1,2,3,7,8-PeCDD

201125R1_4

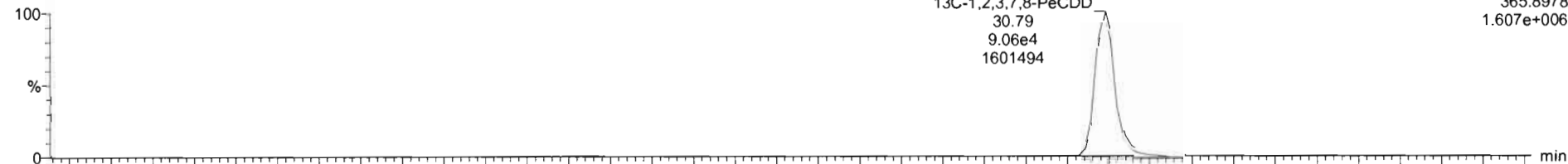


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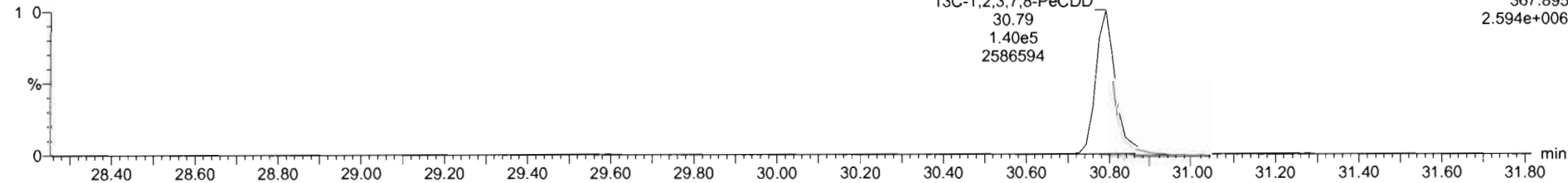


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201125R1_4



201125R1_4



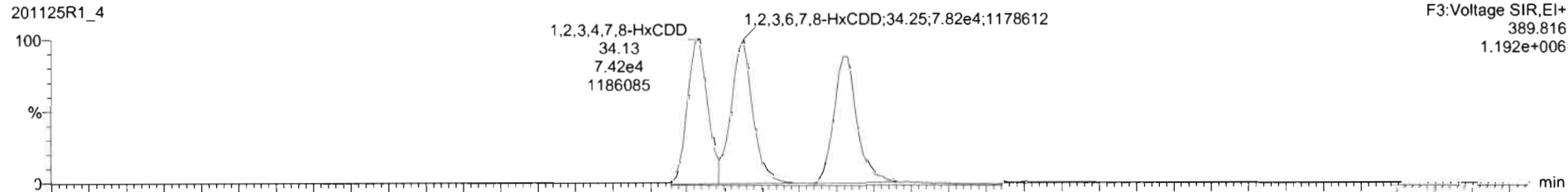
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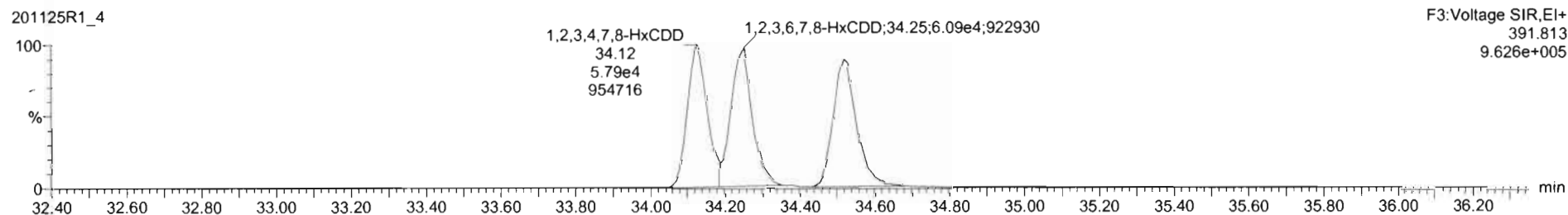
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1,2,3,4,7,8-HxCDD

201125R1_4

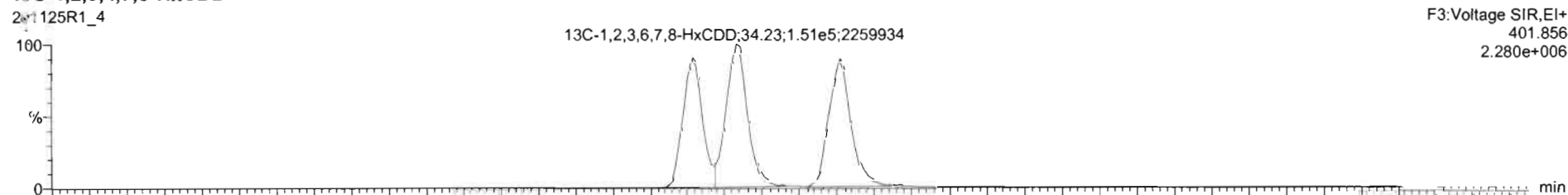


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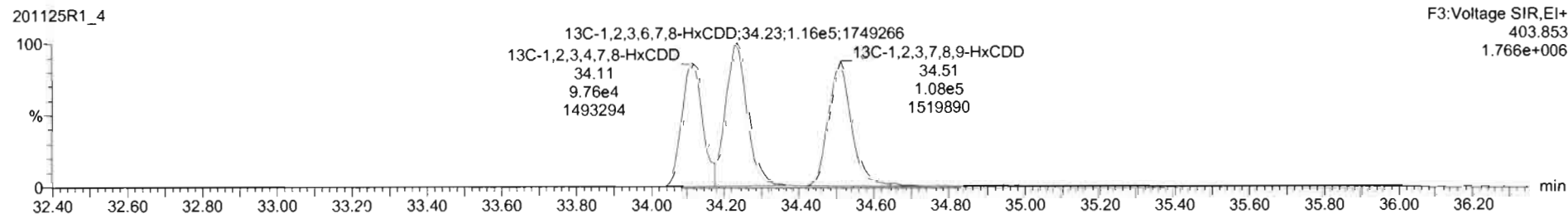


13C-1,2,3,4,7,8-HxCDD

201125R1_4



201125R1_4



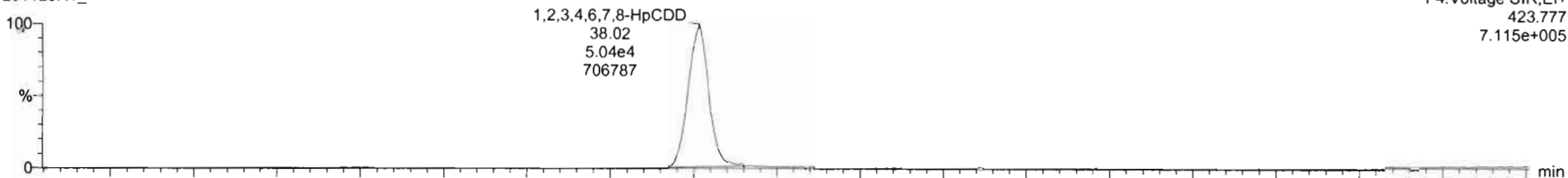
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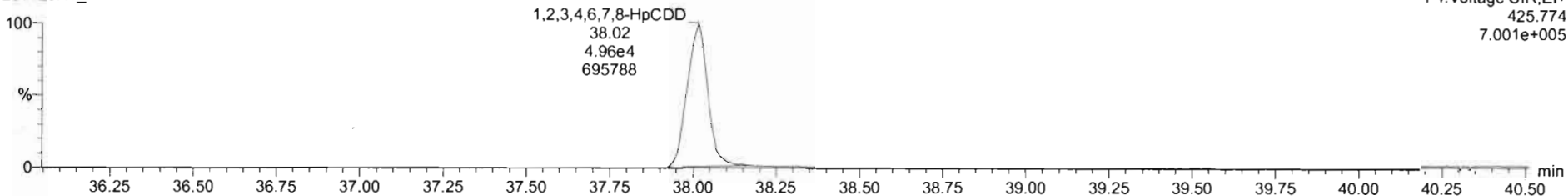
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1,2,3,4,6,7,8-HpCDD

201125R1_4

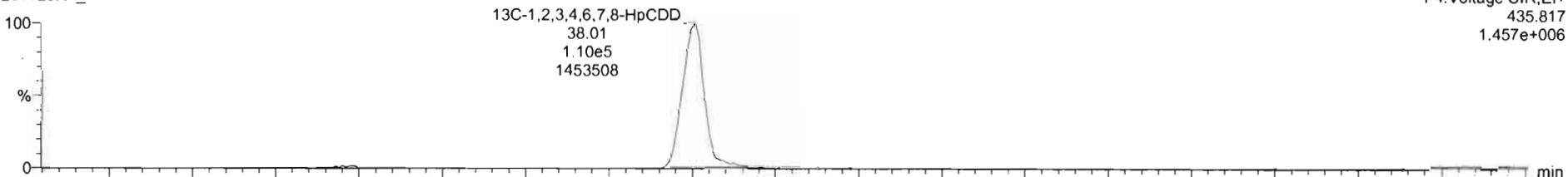


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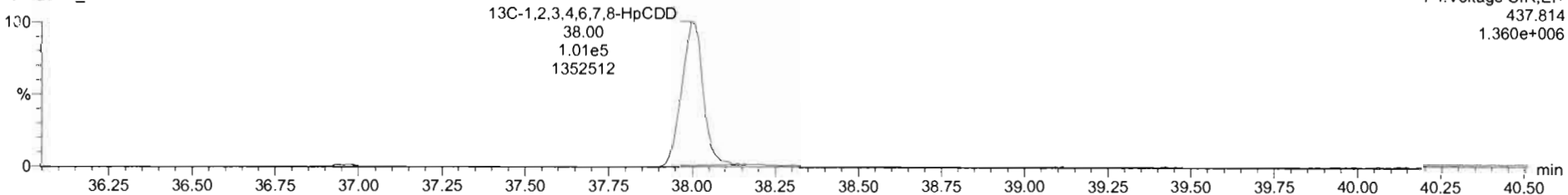


¹³C-1,2,3,4,6,7,8-HpCDD

201125R1_4



201125R1_4



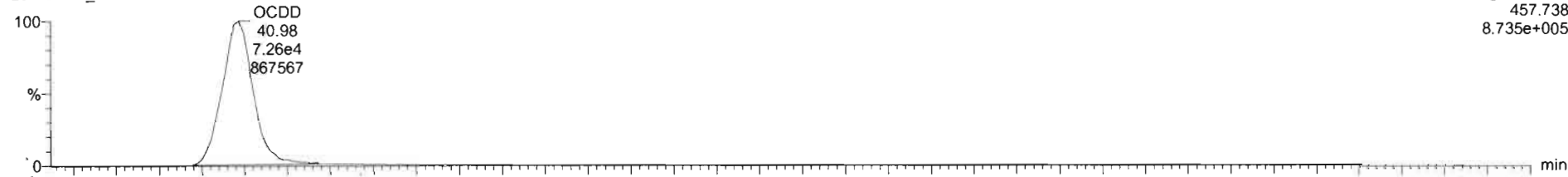
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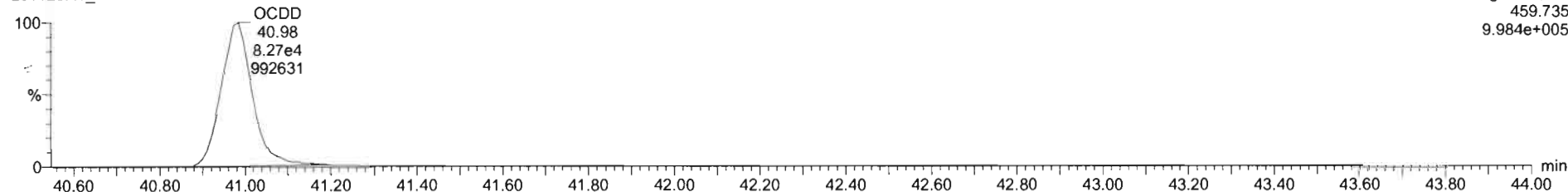
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OCDD

201125R1_4

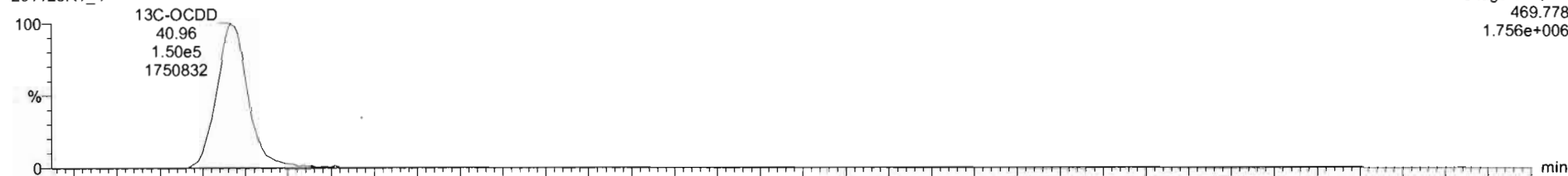


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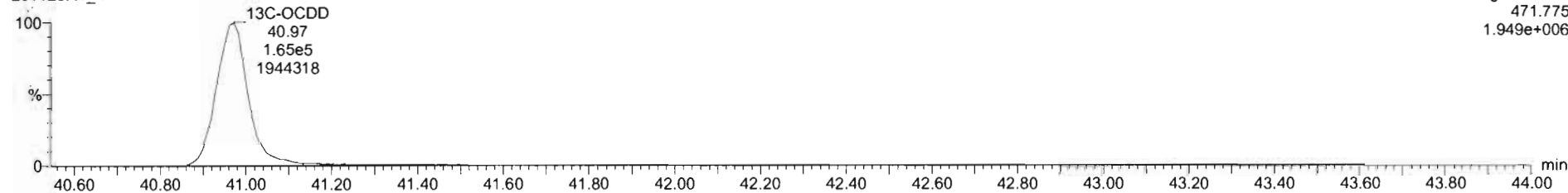


13C-OCDD

201125R1_4



201125R1_4



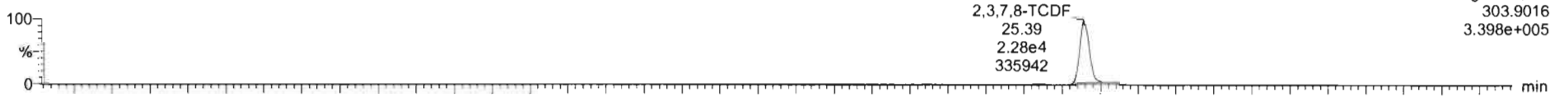
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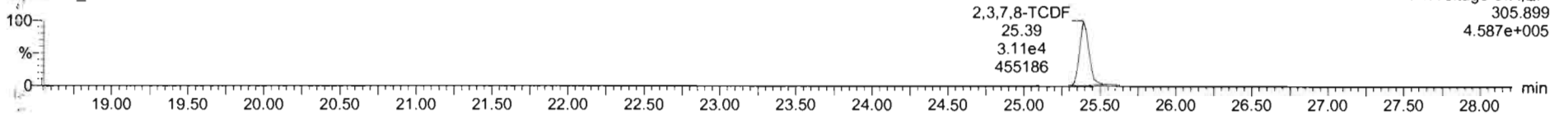
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2,3,7,8-TCDF

201125R1_4

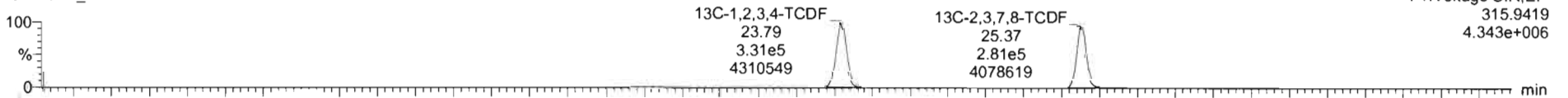


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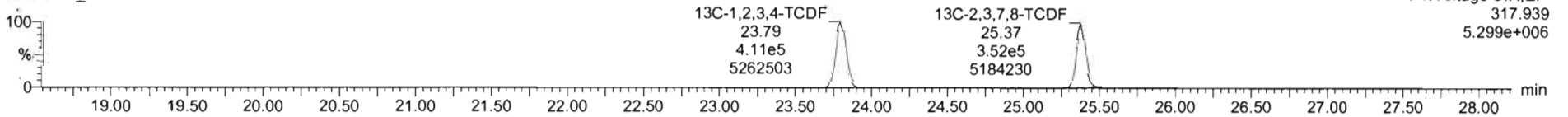


13C-2,3,7,8-TCDF

201125R1_4

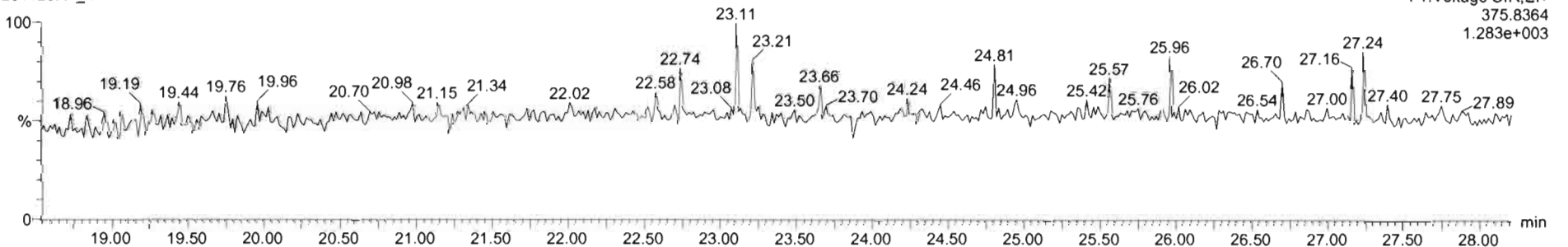


201125R1_4



DPE1

201125R1_4



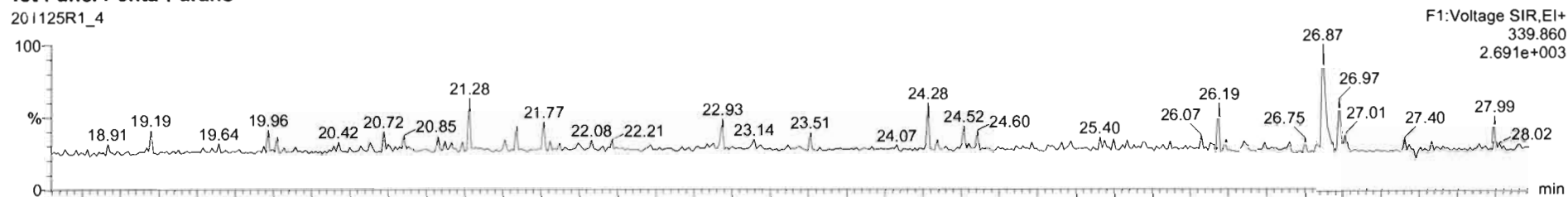
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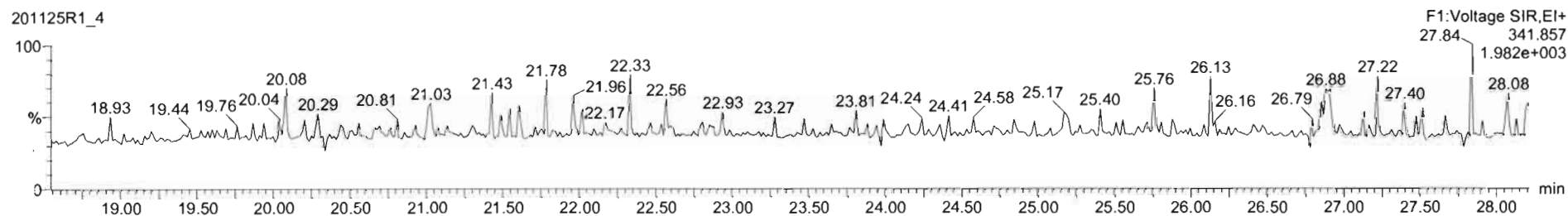
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201125R1_4

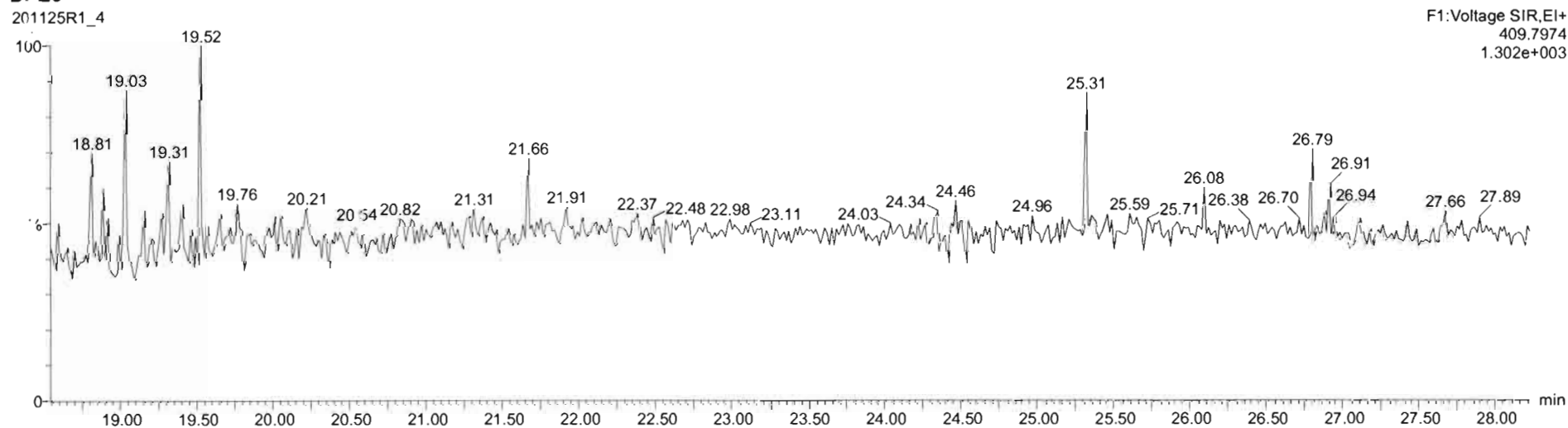


201125R1_4



DPE6

201125R1_4



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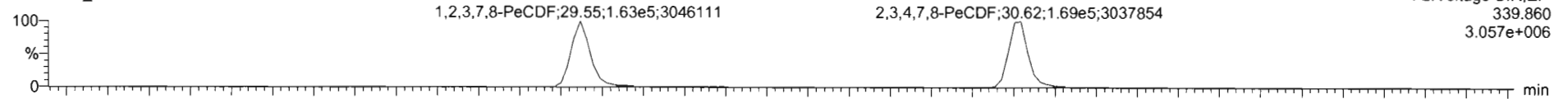
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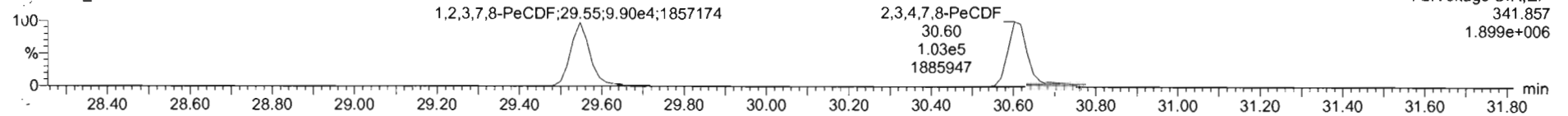
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1,2,3,7,8-PeCDF

201125R1_4

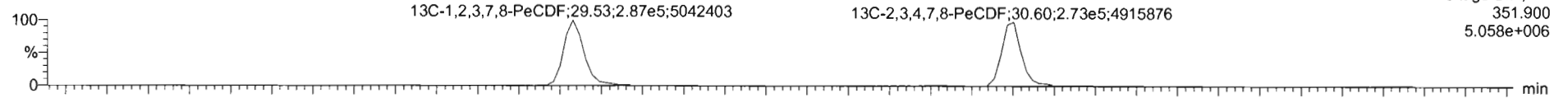


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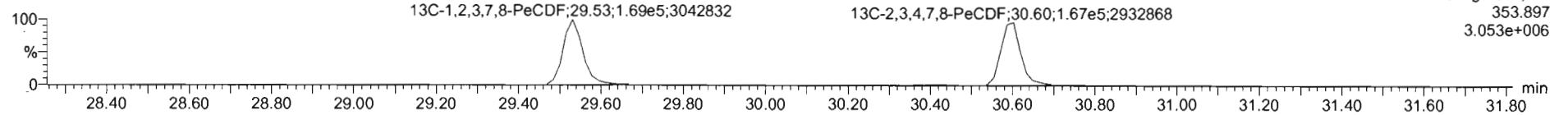


13C-1,2,3,7,8-PeCDF

201125R1_4

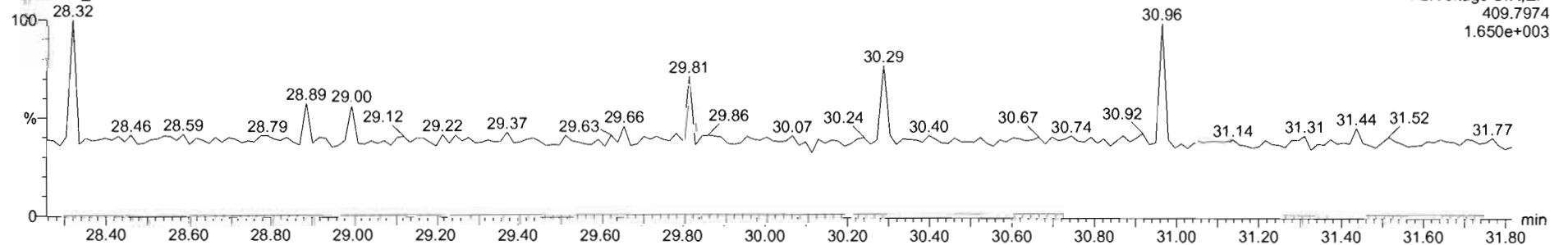


201125R1_4



DPE2

201125R1_4



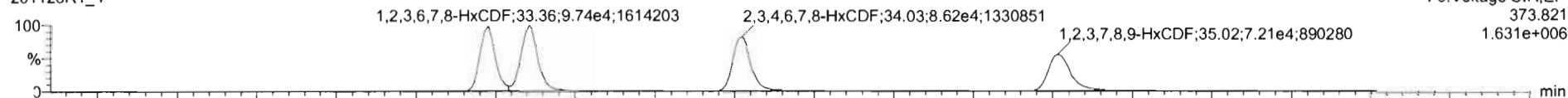
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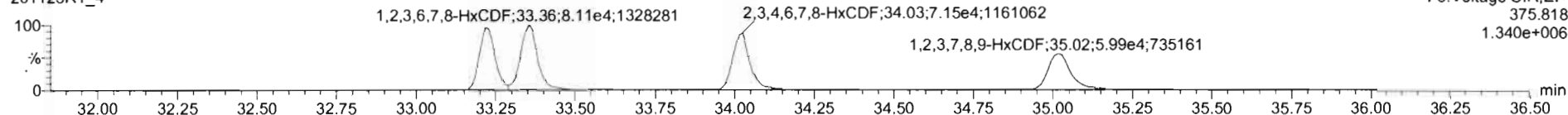
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1,2,3,4,7,8-HxCDF

201125R1_4

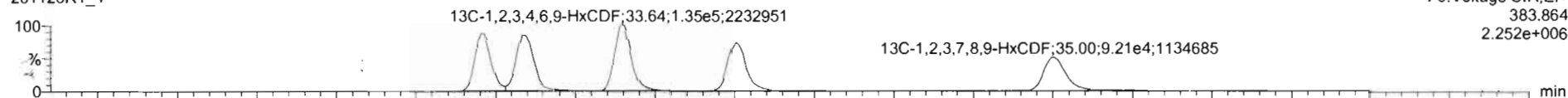


201125R1_4

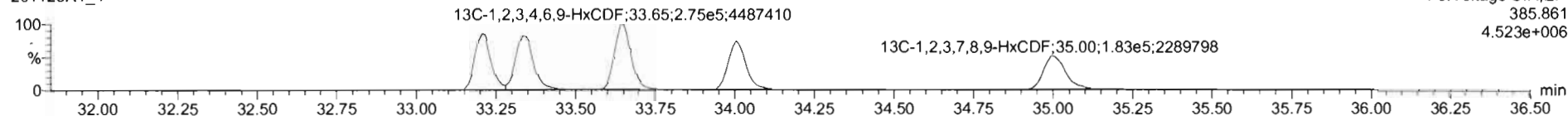


13C-1,2,3,4,7,8-HxCDF

201125R1_4

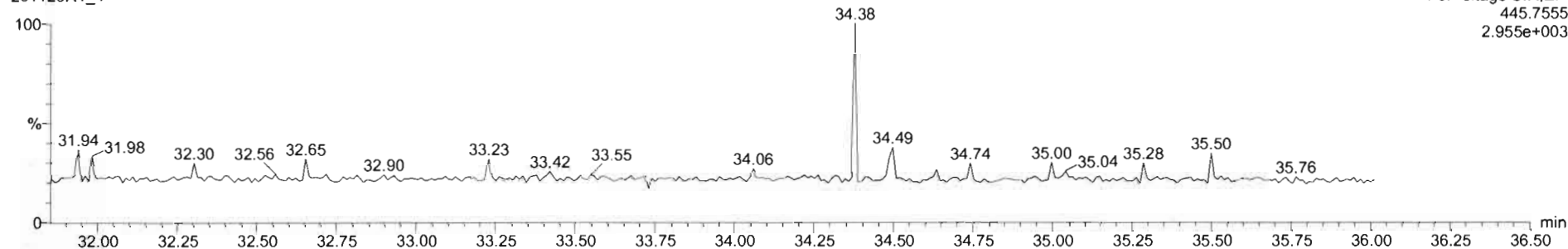


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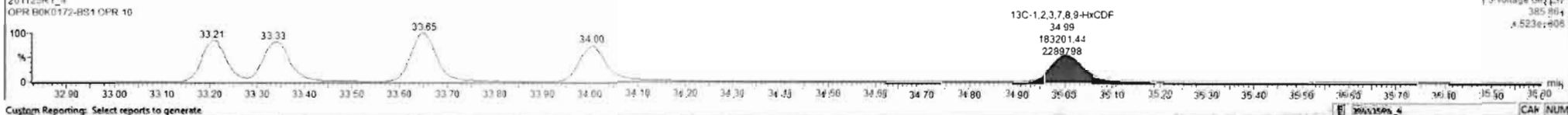
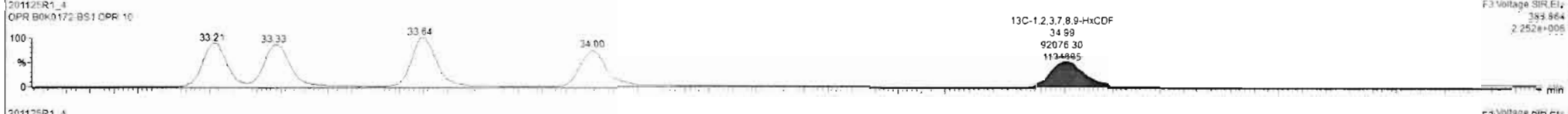


DPE3

201125R1_4



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	



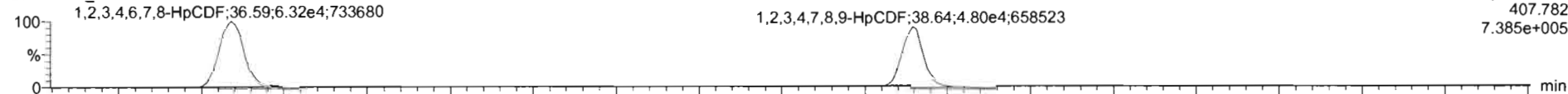
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

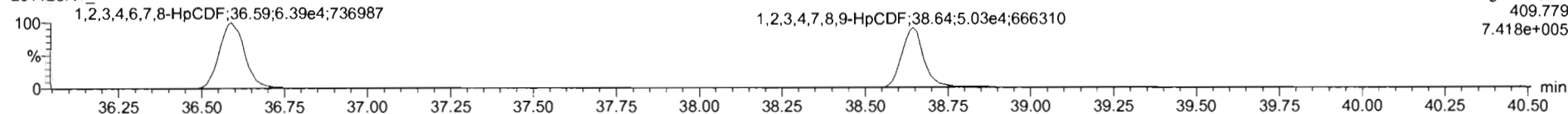
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1,2,3,4,6,7,8-HpCDF

201125R1_4

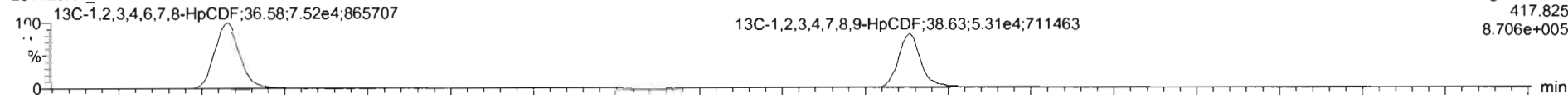


201125R1_4

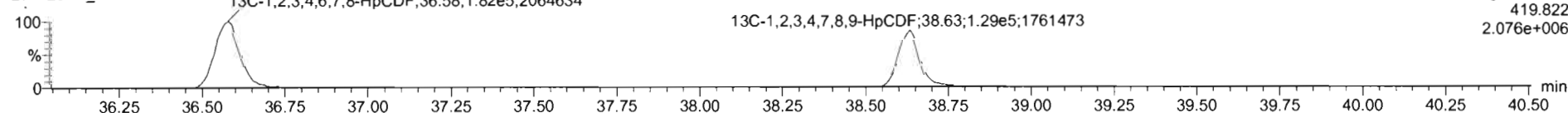


13C-1,2,3,4,6,7,8-HpCDF

201125R1_4

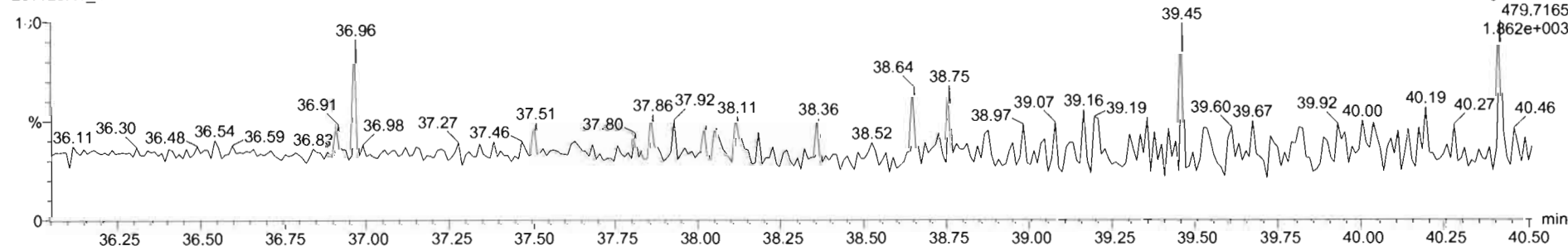


201125R1_4



DPE4

201125R1_4



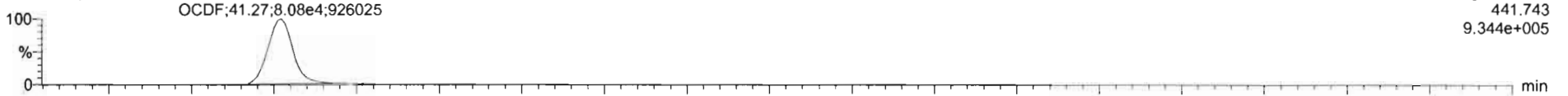
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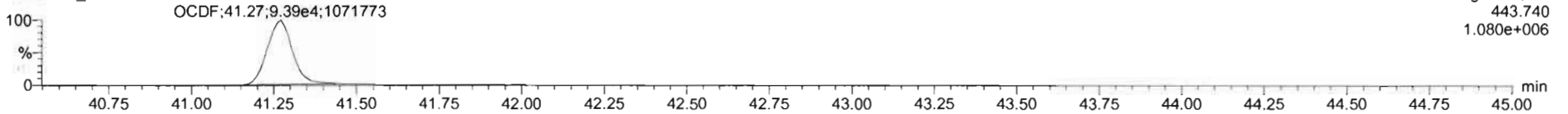
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OCDF

201125R1_4

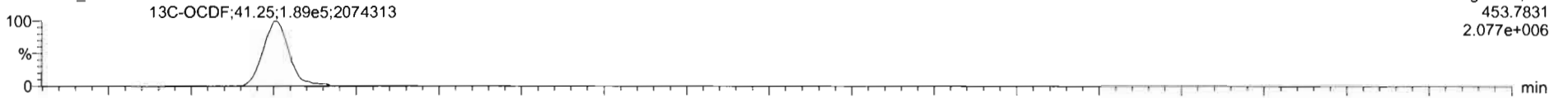


201125R1_4

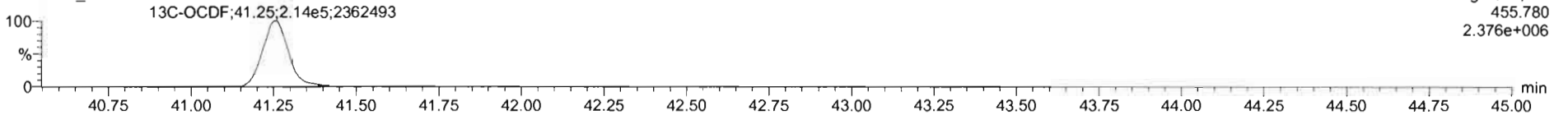


13C-OCDF

201125R1_4

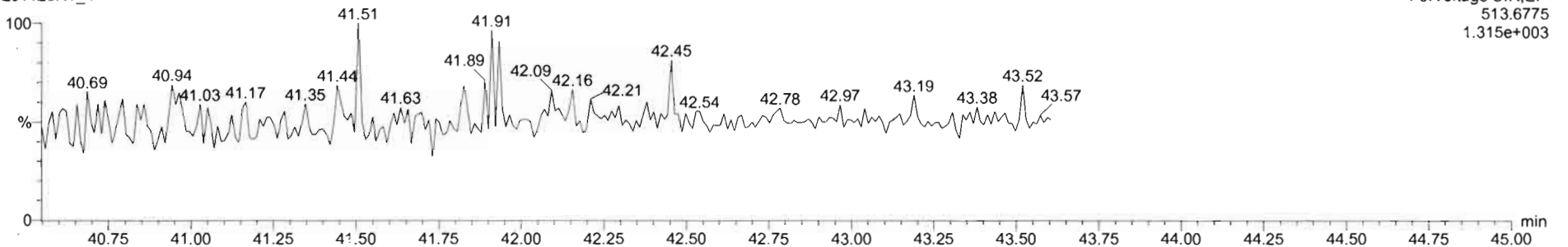


201125R1_4



D₁E5

201125R1_4

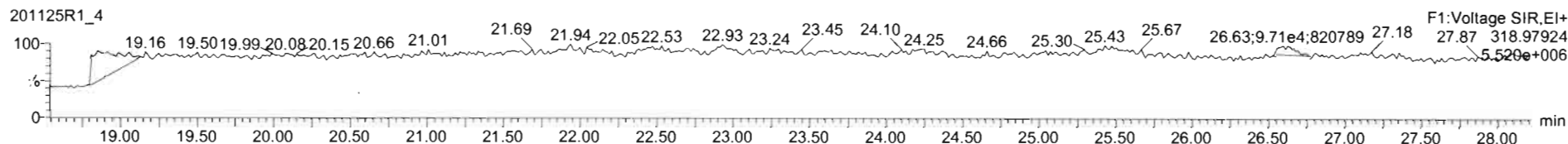


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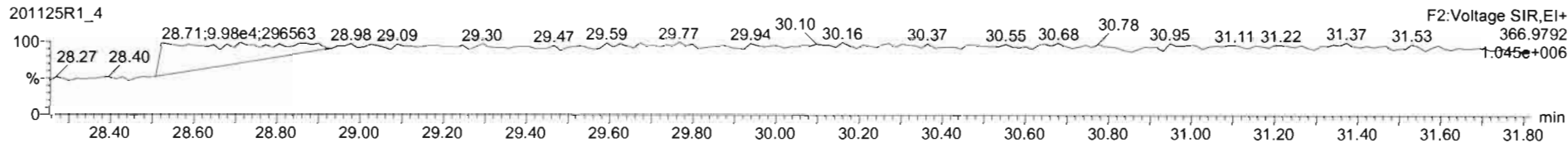
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

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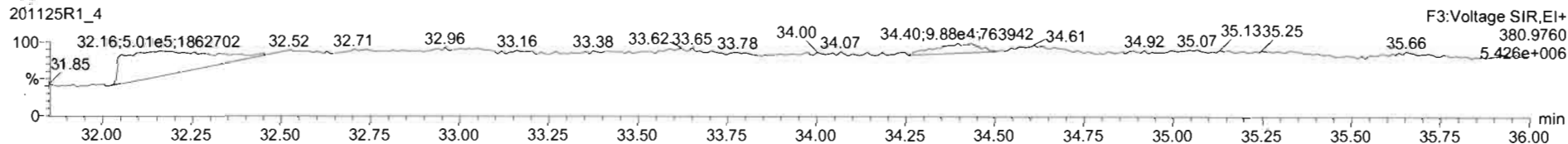
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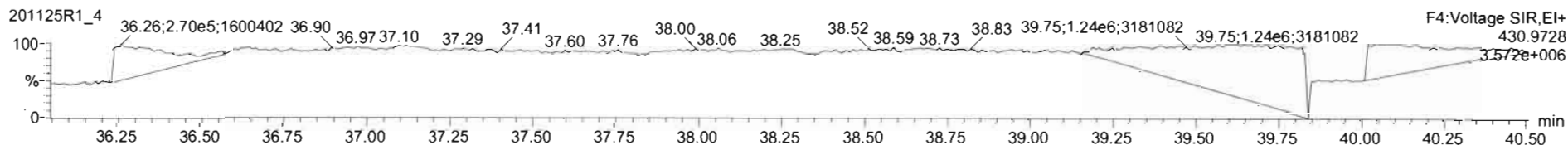
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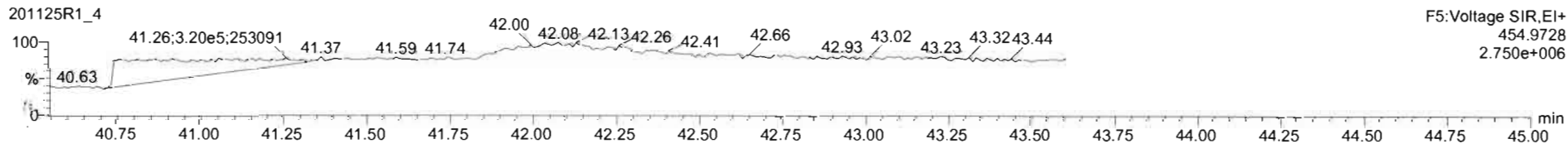
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201124R1\201124R1-11.qld

Last Altered: Wednesday, November 25, 2020 12:08:57 Pacific Standard Time
Printed: Wednesday, November 25, 2020 12:30:18 Pacific Standard Time

GPB 11/25/2020

C712/04/2020

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: 201124R1_11, Date: 24-Nov-2020, Time: 18:53:16, ID: 2002436-01 USMPDI-027SC-A-01-02-201106 11.53, Description: USMPDI-027SC-A-01-02-201106

#	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	10.186	26.097	✓ 26.097	1.001				0.0488	
2	2 1,2,3,7,8-PeCDD			NO	0.885	10.186	30.804		1.000				0.0841	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.186	34.124		1.000				0.109	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.186	34.242		1.000				0.107	
5	5 1,2,3,7,8,9-HxCDD												0.125	
6	6 1,2,3,4,6,7,8-HpCDD	2.89e3	1.13	NO	0.870	10.186	38.020	38.04	1.000	1.001	1.9610		0.259	1.96
7	7 OCDD	2.73e4	0.88	NO	0.872	10.186	40.966	40.99	1.000	1.000	23.886		0.409	23.9
8	8 2,3,7,8-TCDF			NO	0.824	10.186	25.381		1.000				0.0325	
9	9 1,2,3,7,8-PeCDF			NO	0.963	10.186	29.542		1.000				0.0293	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.186	30.608		1.000				0.0257	
11	11 1,2,3,4,7,8-HxCDF	3.83e2	1.10	NO	0.953	10.186	33.209	33.22	1.000	1.000	0.15085		0.0413	0.151
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.186	33.348		1.000				0.0584	
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	10.186	34.011		1.000				0.0669	
14	14 1,2,3,7,8,9-HxCDF			NO	0.951	10.186	35.009		1.000				0.0996	
15	15 1,2,3,4,6,7,8-HpCDF	6.30e2	0.99	NO	0.999	10.186	36.586	36.59	1.000	1.000	0.33357		0.0675	0.334
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	10.186	38.648		1.000				0.106	
17	17 OCDF	7.48e2	0.78	NO	0.868	10.186	41.262	41.25	1.000	1.000	0.58557		0.138	0.586
18	18 13C-2,3,7,8-TCDD	6.41e5	0.79	NO	1.11	10.186	26.058	26.07	1.030	1.030	203.91	104	0.246	
19	19 13C-1,2,3,7,8-PeCDD	4.80e5	0.62	NO	0.859	10.186	30.774	30.80	1.216	1.217	197.09	100	0.409	
20	20 13C-1,2,3,4,7,8-HxCDD	3.75e5	1.28	NO	0.700	10.186	34.114	34.11	1.014	1.014	187.84	95.7	0.648	
21	21 13C-1,2,3,6,7,8-HxCDD	4.39e5	1.27	NO	0.833	10.186	34.252	34.23	1.018	1.017	184.87	94.2	0.544	
22	22 13C-1,2,3,7,8,9-HxCDD	4.18e5	1.32	NO	0.762	10.186	34.494	34.51	1.025	1.026	192.15	97.9	0.595	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.33e5	1.07	NO	0.650	10.186	37.976	38.02	1.129	1.130	179.46	91.4	0.845	
24	24 13C-OCDD	5.14e5	0.88	NO	0.539	10.186	40.940	40.97	1.217	1.218	334.23	85.1	0.806	
25	25 13C-2,3,7,8-TCDF	9.28e5	0.78	NO	0.981	10.186	25.380	25.37	1.003	1.003	207.31	106	0.336	
26	26 13C-1,2,3,7,8-PeCDF	7.30e5	1.61	NO	0.792	10.186	29.506	29.53	1.166	1.167	202.07	103	0.701	
27	27 13C-2,3,4,7,8-PeCDF	7.48e5	1.59	NO	0.778	10.186	30.564	30.61	1.208	1.210	210.69	107	0.714	
28	28 13C-1,2,3,4,7,8-HxCDF	5.23e5	0.50	NO	0.954	10.186	33.205	33.21	0.987	0.987	192.32	97.9	0.827	
29	29 13C-1,2,3,6,7,8-HxCDF	5.30e5	0.51	NO	1.01	10.186	33.336	33.35	0.991	0.991	184.82	94.1	0.784	
30	30 13C-2,3,4,6,7,8-HxCDF	4.92e5	0.50	NO	0.921	10.186	34.006	34.01	1.011	1.011	187.15	95.3	0.856	

Dataset: U:\VG12.PRO\Results\201124R1\201124R1-11.qld

Last Altered: Wednesday, November 25, 2020 12:08:57 Pacific Standard Time

Printed: Wednesday, November 25, 2020 12:30:18 Pacific Standard Time

Name: 201124R1_11, Date: 24-Nov-2020, Time: 18:53:16, ID: 2002436-01 USMPDI-027SC-A-01-02-201106 11.53, Description: USMPDI-027SC-A-01-02-201106

#	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	4.36e5	0.52	NO	0.803	10.186	35.002	35.01	1.040	1.041	190.42	97.0	0.982	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.71e5	0.43	NO	0.735	10.186	36.570	36.58	1.087	1.087	177.04	90.2	0.705	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.88e5	0.41	NO	0.568	10.186	38.605	38.65	1.147	1.149	178.13	90.7	0.913	
34	34 13C-OCDF	5.78e5	0.91	NO	0.629	10.186	41.223	41.25	1.225	1.226	321.92	82.0	0.629	
35	35 37Cl-2,3,7,8-TCDD	2.85e5			1.09	10.186	26.058	26.08	1.030	1.031	92.463	118	0.0499	
36	36 13C-1,2,3,4-TCDD	5.57e5	0.81	NO	1.00	10.186	25.370	25.30	1.000	1.000	196.36	100	0.273	
37	37 13C-1,2,3,4-TCDF	8.96e5	0.78	NO	1.00	10.186	23.870	23.79	1.000	1.000	196.36	100	0.329	
38	38 13C-1,2,3,4,6,9-HxCDF	5.60e5	0.50	NO	1.00	10.186	33.710	33.65	1.000	1.000	196.36	100	0.789	
39	39 Total Tetra-Dioxins				0.950	10.186	24.620		0.000		0.12800		0.0488	0.128
40	40 Total Penta-Dioxins				0.885	10.186	29.960		0.000		0.00000		0.0372	0.157
41	41 Total Hexa-Dioxins				0.915	10.186	33.635		0.000		1.3951		0.118	1.40
42	42 Total Hepta-Dioxins				0.870	10.186	37.640		0.000		4.9168		0.259	4.92
43	43 Total Tetra-Furans				0.824	10.186	23.610		0.000				0.0151	
44	44 1st Func. Penta-Furans				0.963	10.186	26.930		0.000		0.091377		0.00760	0.0910
45	45 Total Penta-Furans				0.963	10.186	29.275		0.000				0.0149	
46	46 Total Hexa-Furans				0.991	10.186	33.555		0.000		0.23882		0.0473	0.320
47	47 Total Hepta-Furans				0.999	10.186	37.835		0.000		0.61995		0.0732	0.620

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201124R1\201124R1-11.qld

Last Altered: Wednesday, November 25, 2020 12:08:57 Pacific Standard Time

Printed: Wednesday, November 25, 2020 12:30:18 Pacific Standard Time

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: 201124R1_11, Date: 24-Nov-2020, Time: 18:53:16, ID: 2002436-01 USMPDI-027SC-A-01-02-201106 11.53, Description: USMPDI-027SC-A-01-02-201106

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.00	3.174e3	2.849e3	1.788e2	2.181e2	0.82	NO	3.969e2	0.12800	0.12800	0.0488

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.57	9.110e2	1.763e3	5.334e1	1.085e2	0.49	YES	0.000e0	0.00000	0.064000	0.0372
2	Total Penta-Dioxins	29.02	2.430e3	2.978e3	9.762e1	1.233e2	0.79	YES	0.000e0	0.00000	0.093000	0.0372

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	1.559e4	1.256e4	8.899e2	6.634e2	1.34	NO	1.553e3	0.81223	0.81200	0.118
2	Total Hexa-Dioxins	33.37	9.707e3	7.046e3	6.185e2	4.961e2	1.25	NO	1.115e3	0.58285	0.58300	0.118

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	2.614e4	2.012e4	2.246e3	2.108e3	1.07	NO	4.354e3	2.9558	2.9560	0.259
2	1,2,3,4,6,7,8-HpCDD	38.04	1.791e4	1.588e4	1.531e3	1.358e3	1.13	NO	2.889e3	1.9610	1.9610	0.259

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	1st Func. Penta-Furans	26.93	5.292e3	2.540e3	1.955e2	1.354e2	1.44	NO	3.309e2	0.091377	0.091000	0.00760

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201124R1\201124R1-11.qld

Last Altered: Wednesday, November 25, 2020 12:08:57 Pacific Standard Time

Printed: Wednesday, November 25, 2020 12:30:18 Pacific Standard Time

Name: 201124R1_11, Date: 24-Nov-2020, Time: 18:53:16, ID: 2002436-01 USMPDI-027SC-A-01-02-201106 11.53, Description: USMPDI-027SC-A-01-02-201106

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	32.13	3.107e3	2.173e3	1.200e2	9.996e1	1.20	NO	2.199e2	0.087974	0.088000	0.0473
2	Total Hexa-Furans	32.75	3.436e3	1.791e3	1.334e2	9.026e1	1.48	YES	0.000e0	0.000000	0.081000	0.0473
3	1,2,3,4,7,8-HxCDF	33.22	3.498e3	2.859e3	2.006e2	1.828e2	1.10	NO	3.833e2	0.15085	0.15100	0.0413

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	4.339e3	4.246e3	3.138e2	3.164e2	0.99	NO	6.302e2	0.33357	0.33400	0.0675
2	Total Hepta-Furans	37.34	3.207e3	3.237e3	2.437e2	2.368e2	1.03	NO	4.806e2	0.28638	0.28600	0.0732

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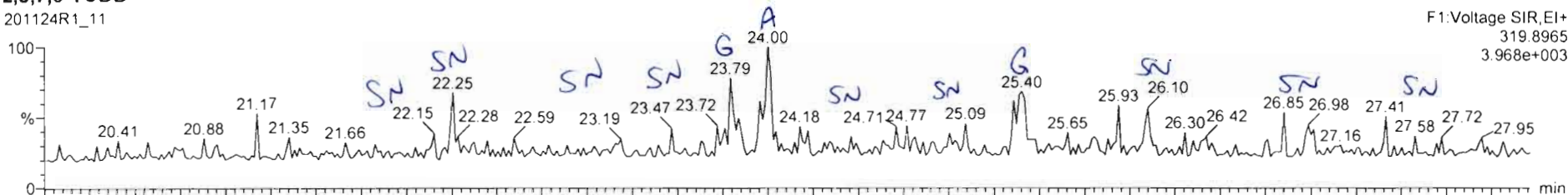
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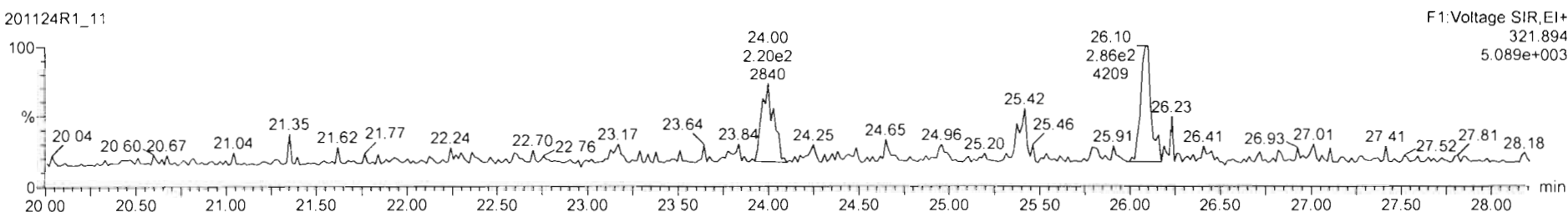
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2,3,7,8-TCDD

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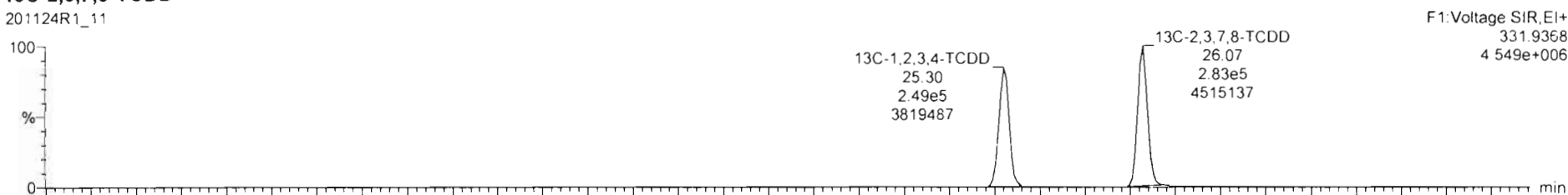


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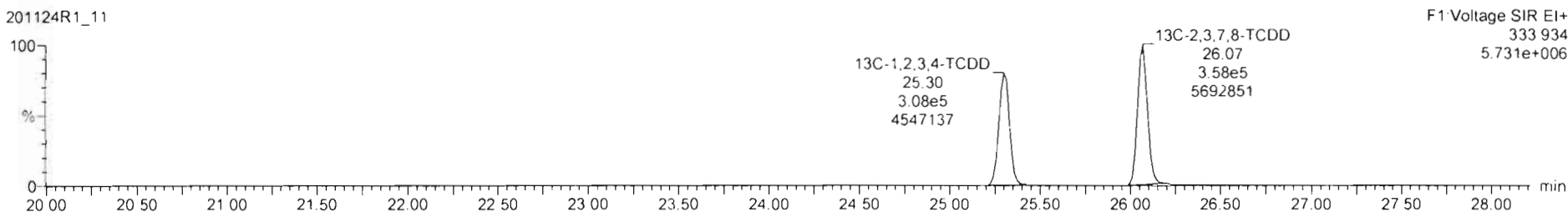


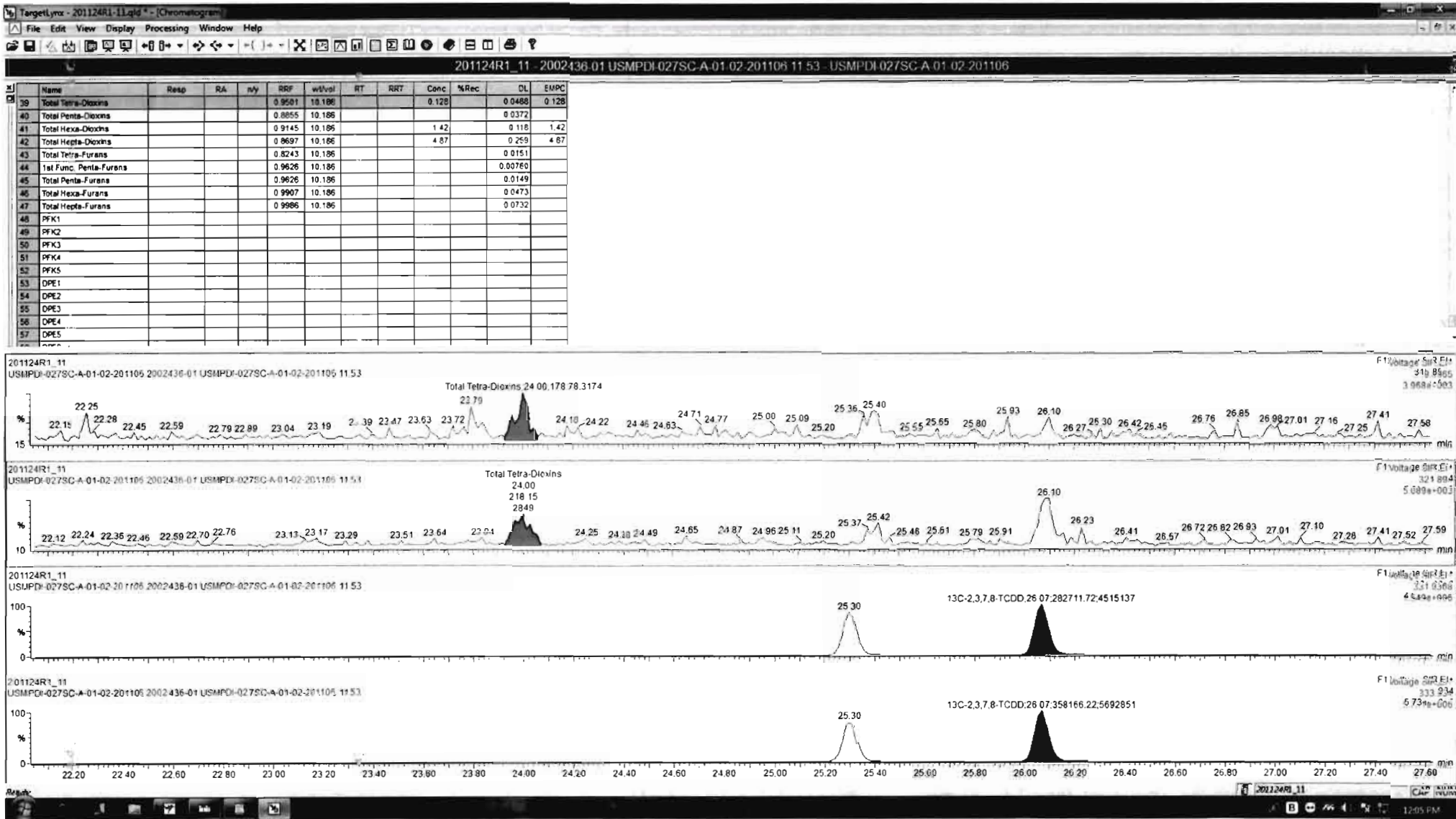
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201124R1_11



201124R1_11





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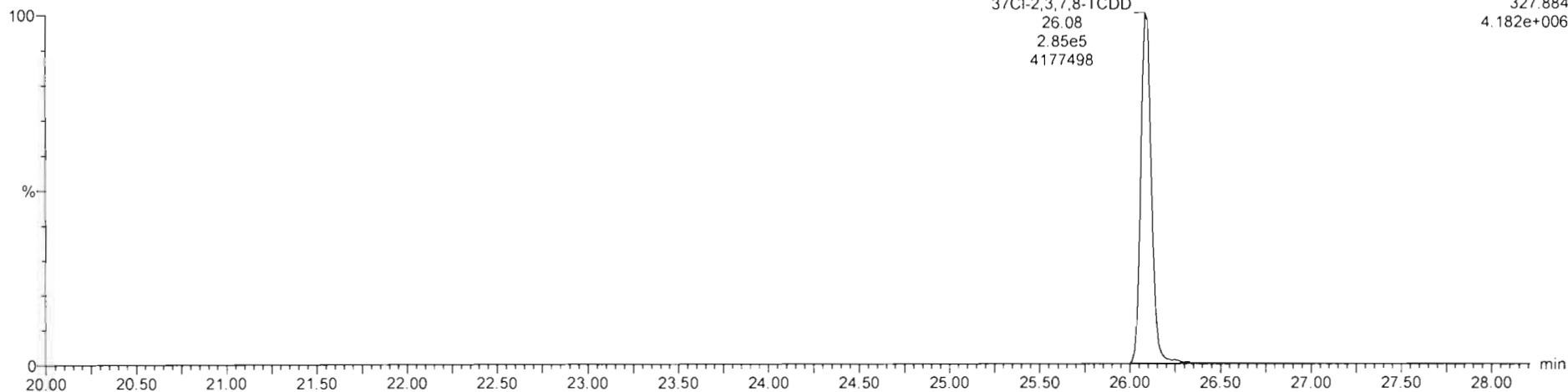
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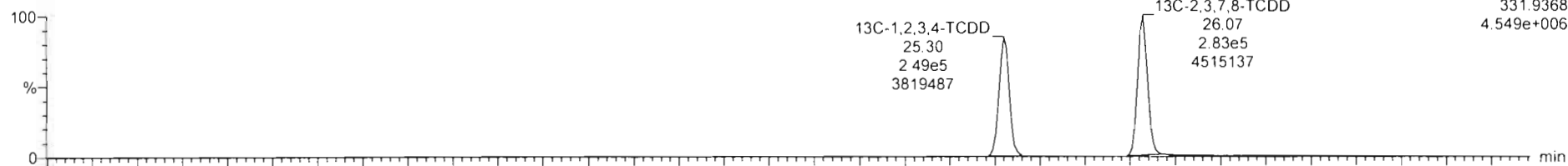
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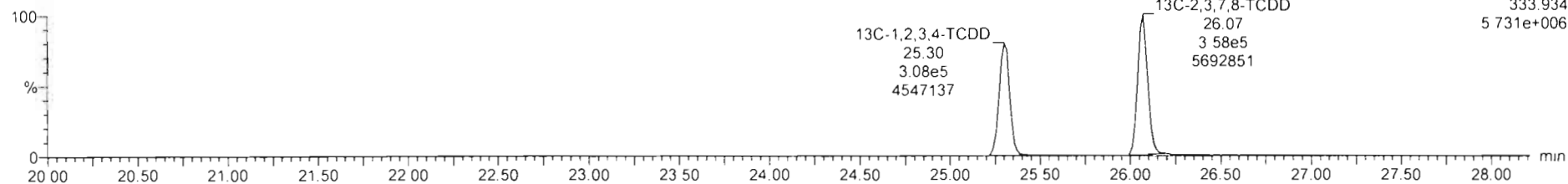


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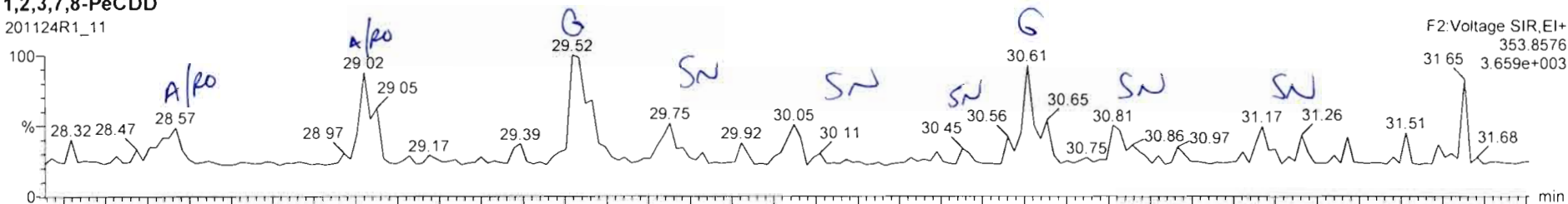
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Name: 201124R1_11, Date: 24-Nov-2020, Time: 18:53:16, ID: 2002436-01 USMPDI-027SC-A-01-02-201106 11.53, Description: USMPDI-027SC-A-01-02-201106

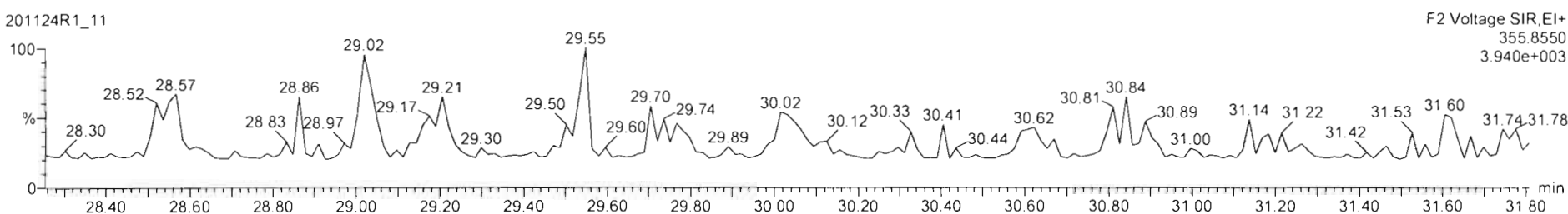
1,2,3,7,8-PeCDD

201124R1_11



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353.8576
3.659e+003

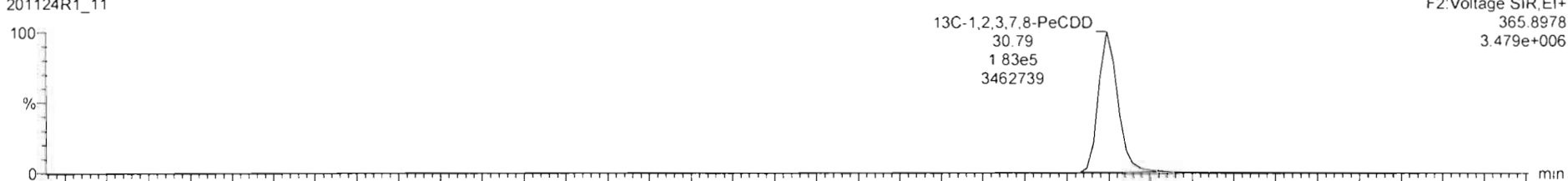
201124R1_11



F2 Voltage SIR, EI+
355.8550
3.940e+003

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

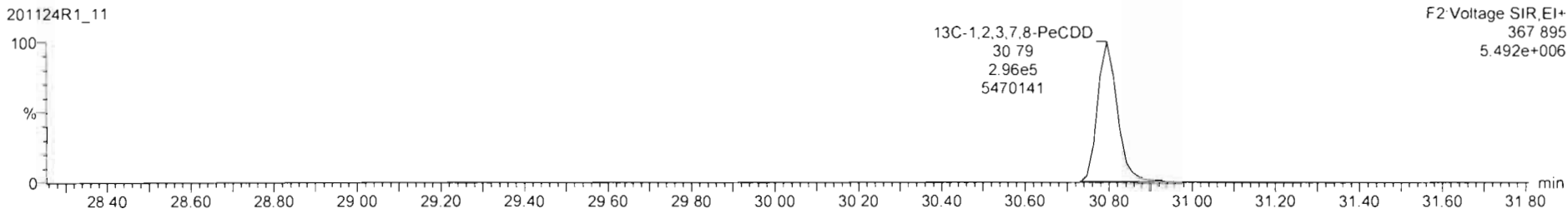
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13C-1,2,3,7,8-PeCDD
30.79
1.83e5
3462739

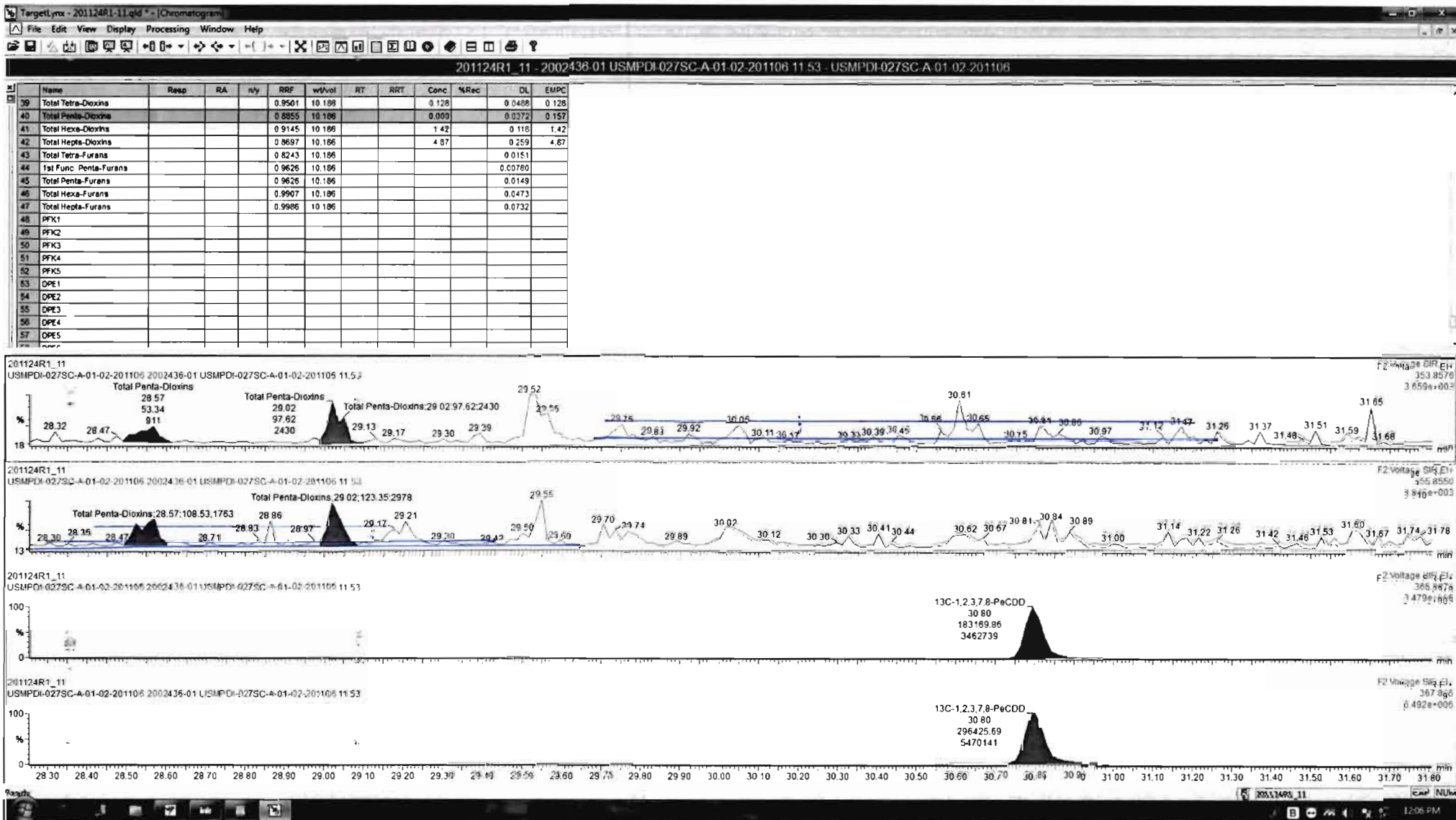
F2: Voltage SIR, EI+
365.8978
3.479e+006

201124R1_11



13C-1,2,3,7,8-PeCDD
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2.96e5
5470141

F2: Voltage SIR, EI+
367.895
5.492e+006

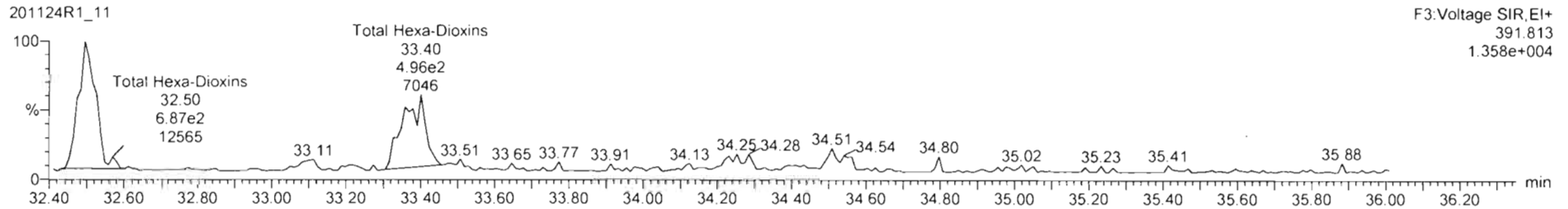
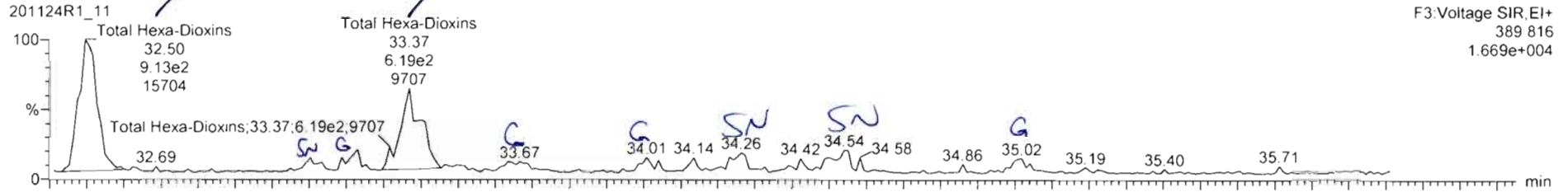


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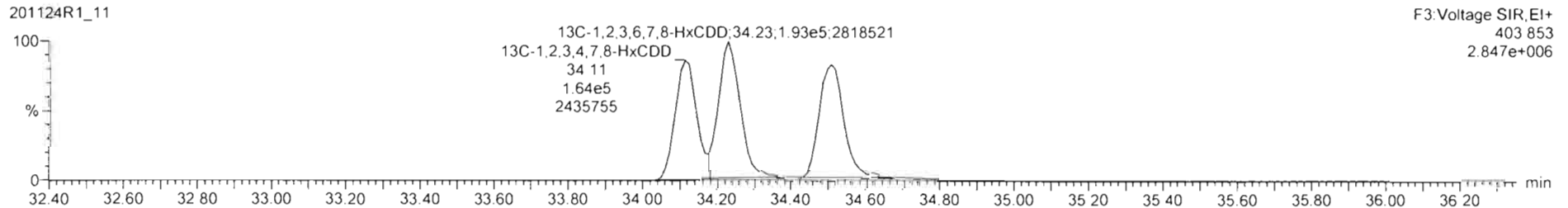
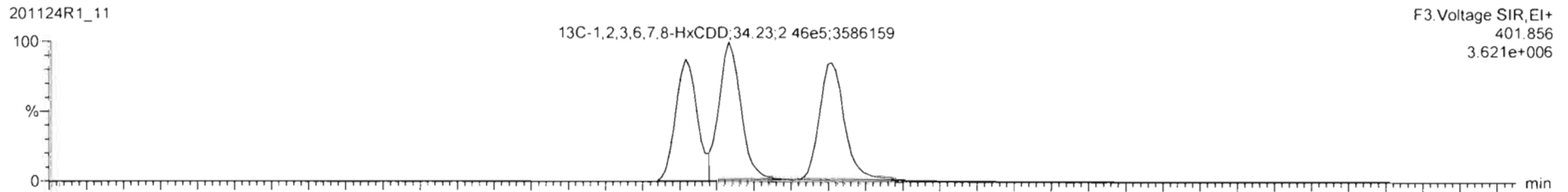
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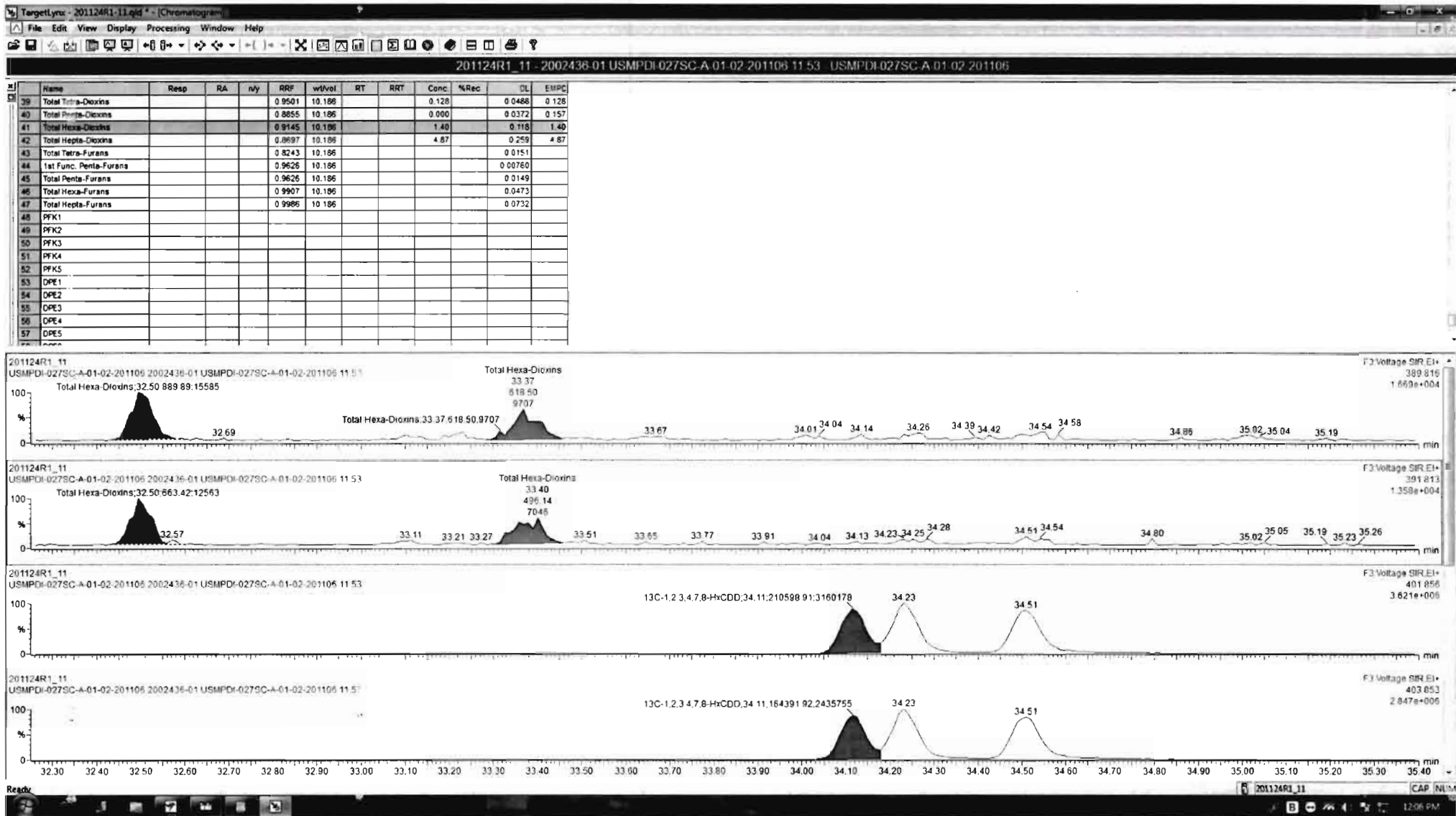
Name: 201124R1_11, Date: 24-Nov-2020, Time: 18:53:16, ID: 2002436-01 USMPDI-027SC-A-01-02-201106 11.53, Description: USMPDI-027SC-A-01-02-201106

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



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





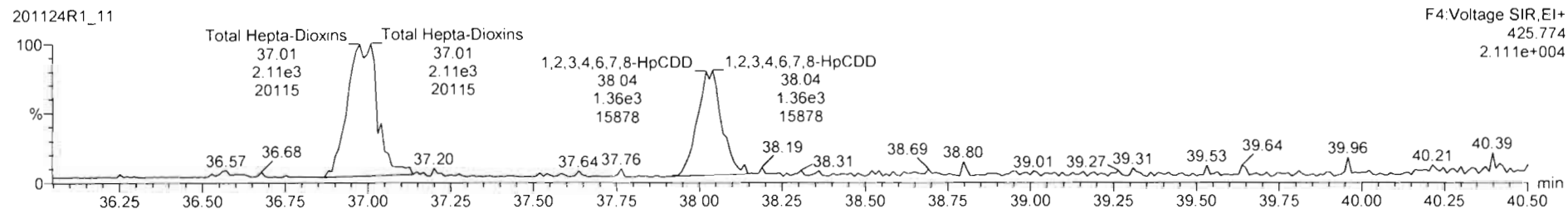
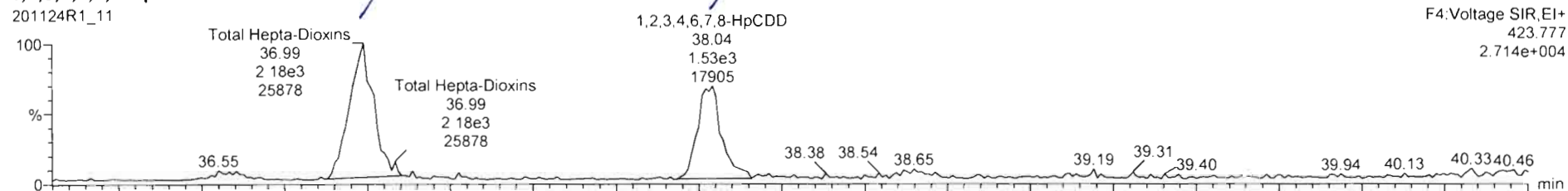
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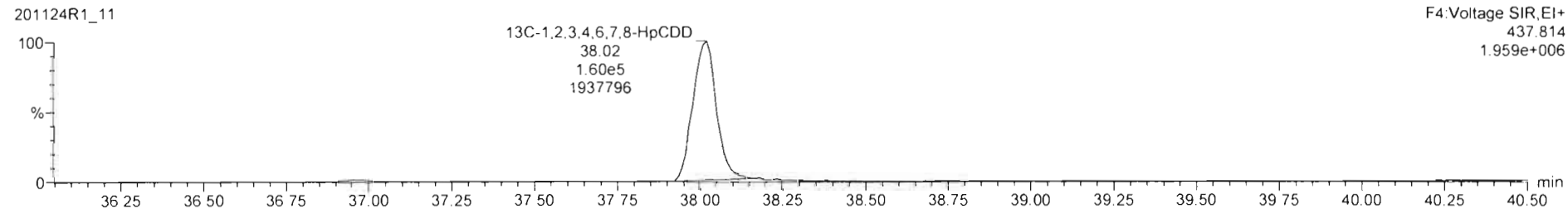
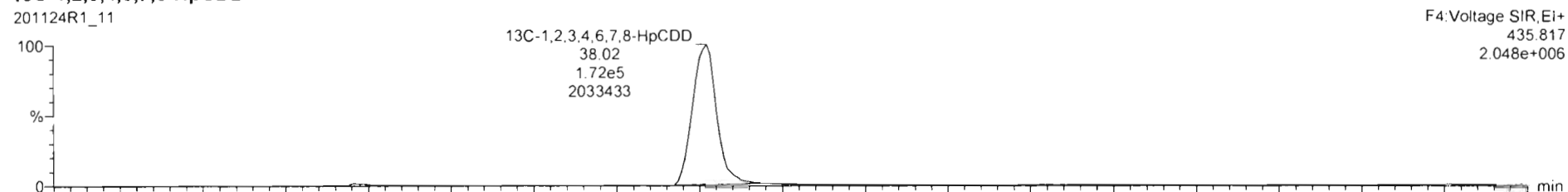
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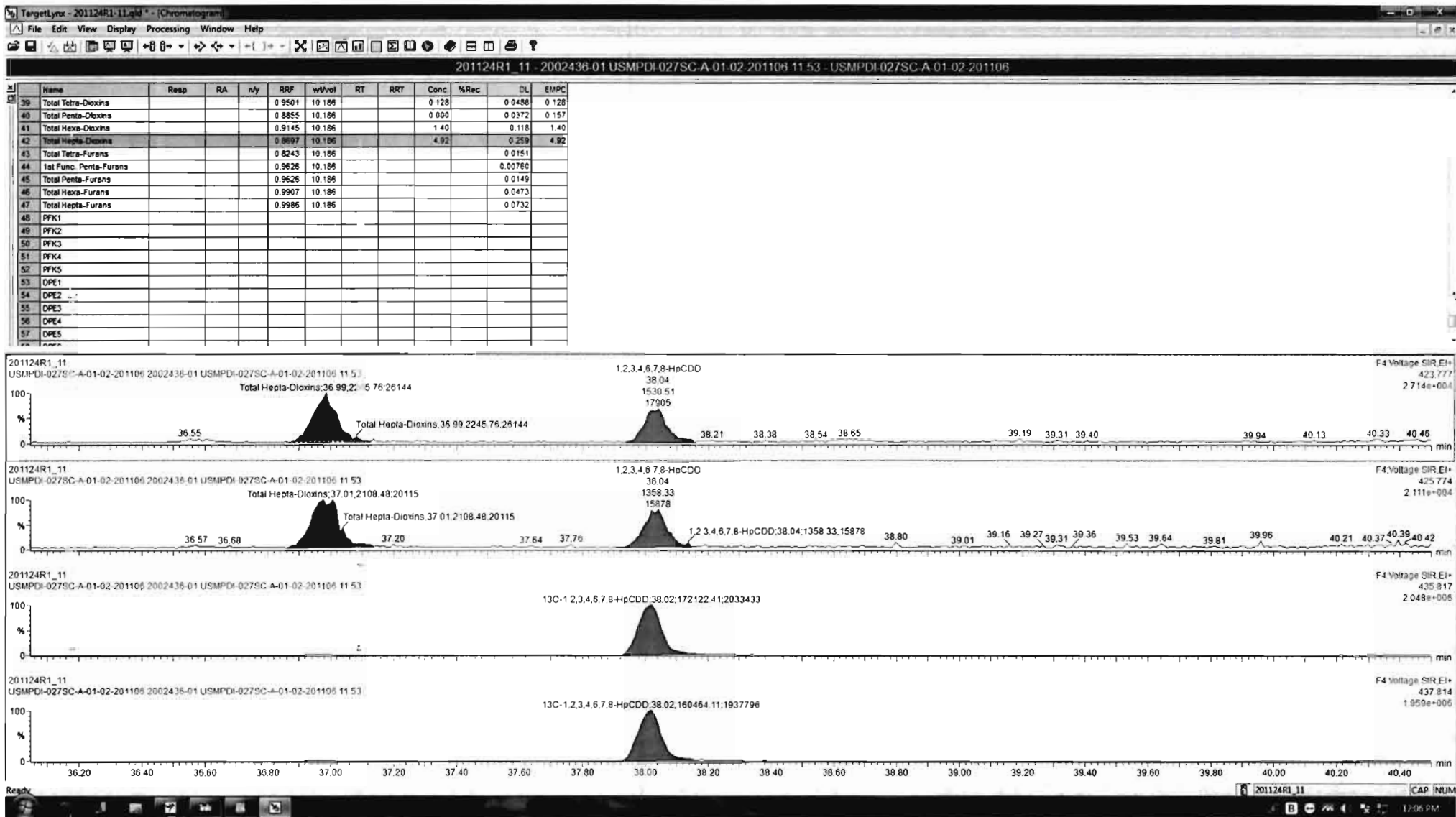
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1,2,3,4,6,7,8-HpCDD



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



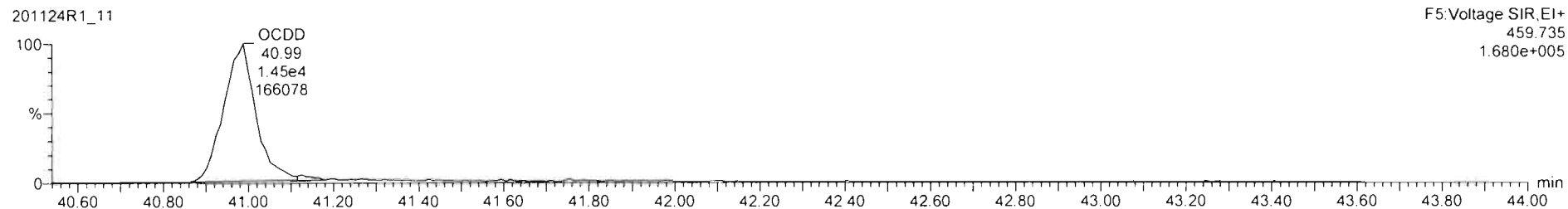
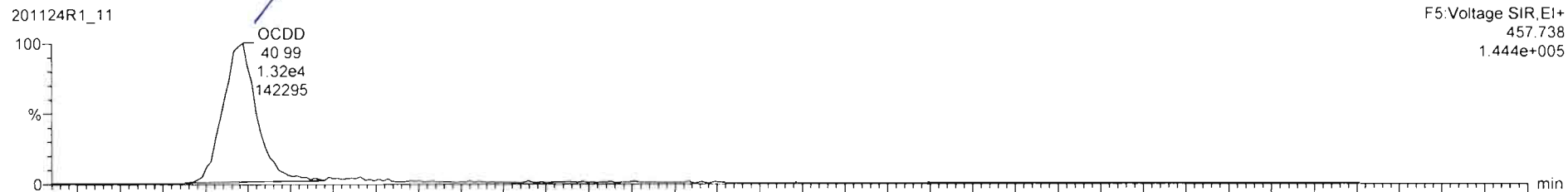


Dataset: Untitled

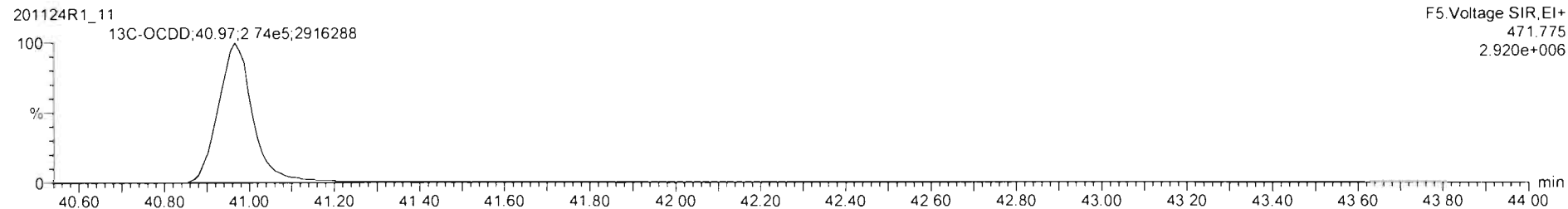
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Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

Name: 201124R1_11, Date: 24-Nov-2020, Time: 18:53:16, ID: 2002436-01 USMPDI-027SC-A-01-02-201106 11.53, Description: USMPDI-027SC-A-01-02-201106

OCDD



13C-OCDD

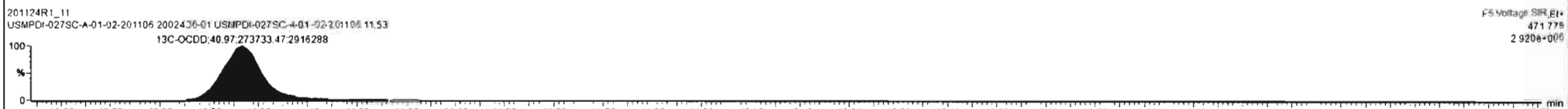
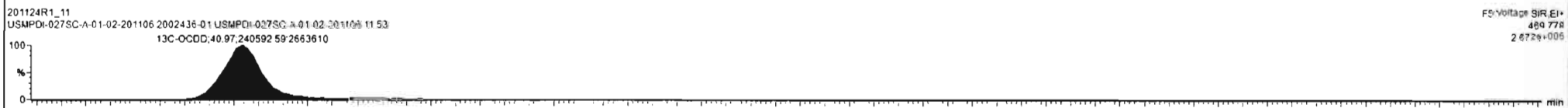
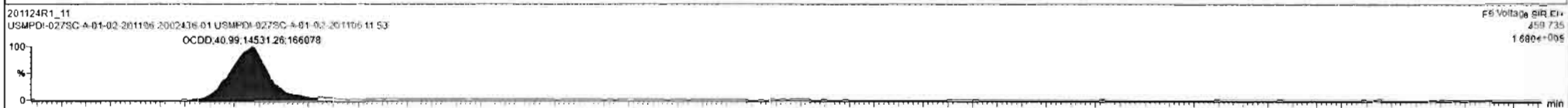


TargetLynx - 201124R1_11.qld * (Chromatogram)

File Edit View Display Processing Window Help

201124R1_11 - 2002436.01 USMPDI-027SC-A 01-02-201106 11:53 - USMPDI-027SC-A 01-02-201106

#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.9501	10.186					0.0468	
2	1,2,3,7,8-PeCDD			NO	0.8855	10.186					0.0841	
3	1,2,3,4,7,8-HxCDD			NO	1.0176	10.186					0.109	
4	1,2,3,6,7,8-HxCDD			NO	0.9145	10.186					0.107	
5	1,2,3,7,8,9-HxCDD			NO	0.9345	10.186					0.125	
6	1,2,3,4,6,7,8-HpCDD	2.89e3	1.13	NO	0.8697	10.186	38.04	1.001	1.96		0.259	1.96
7	OCDD	2.73e4	0.88	NO	0.8717	10.186	40.89	1.001	23.9		0.409	23.9
8	2,3,7,8-TCDF			NO	0.8243	10.186					0.0325	
9	1,2,3,7,8-PeCDF			NO	0.9626	10.186					0.0293	
10	2,3,4,7,8-PeCDF			NO	1.0684	10.186					0.0257	
11	1,2,3,4,7,8-HxCDF			NO	0.9535	10.186					0.0600	
12	1,2,3,6,7,8-HxCDF			NO	1.0080	10.186					0.0584	
13	2,3,4,6,7,8-HxCDF			NO	0.9907	10.186					0.0669	
14	1,2,3,7,8,9-HxCDF			NO	0.9506	10.186					0.0896	
15	1,2,3,4,6,7,8-HpCDF			NO	0.9986	10.186					0.100	
16	1,2,3,4,7,8,9-HpCDF			NO	1.1238	10.186					0.106	
17	OCDF	7.48e2	0.78	NO	0.8682	10.186	41.25	1.020	0.586		0.138	0.586
18	13C-2,3,7,8-TCDD	6.41e5	0.79	NO	1.1089	10.186	26.07	1.030	204	104	0.246	
19	13C-1,2,3,7,8-PeCDD	4.80e5	0.62	NO	0.8585	10.186	30.80	1.217	197	100	0.409	

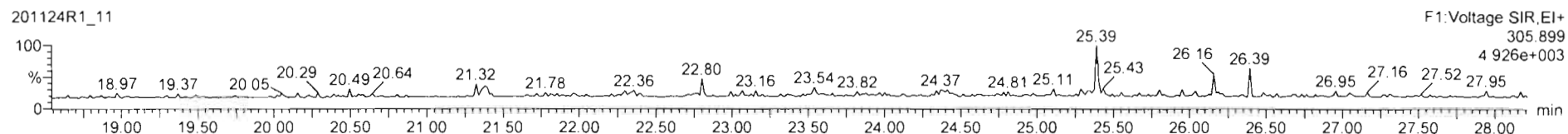
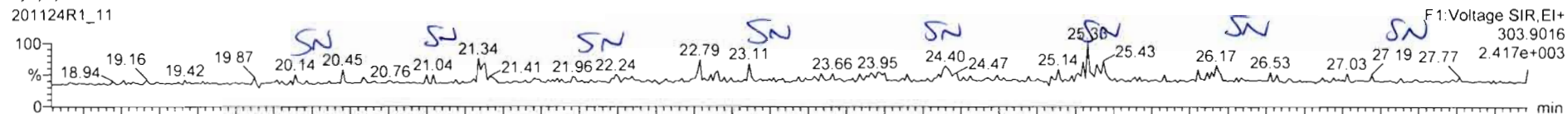


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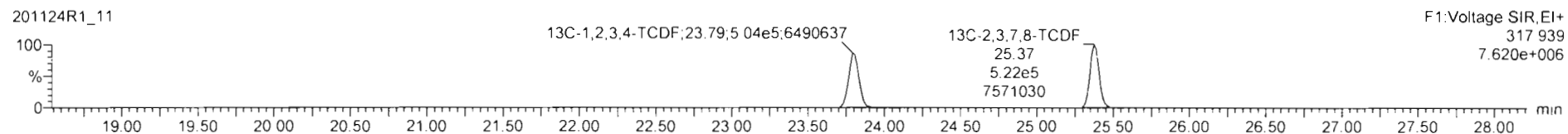
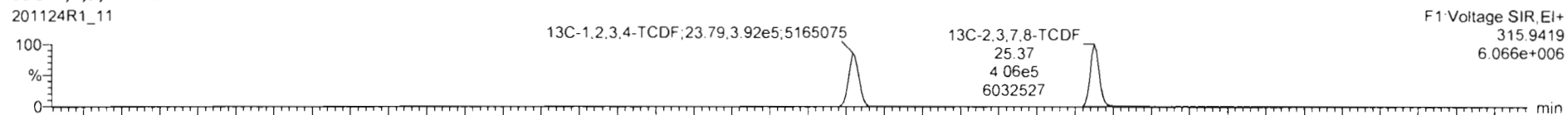
Last Altered: Wednesday, November 25, 2020 07:04:08 Pacific Standard Time
Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

Name: 201124R1_11, Date: 24-Nov-2020, Time: 18:53:16, ID: 2002436-01 USMPDI-027SC-A-01-02-201106 11.53, Description: USMPDI-027SC-A-01-02-201106

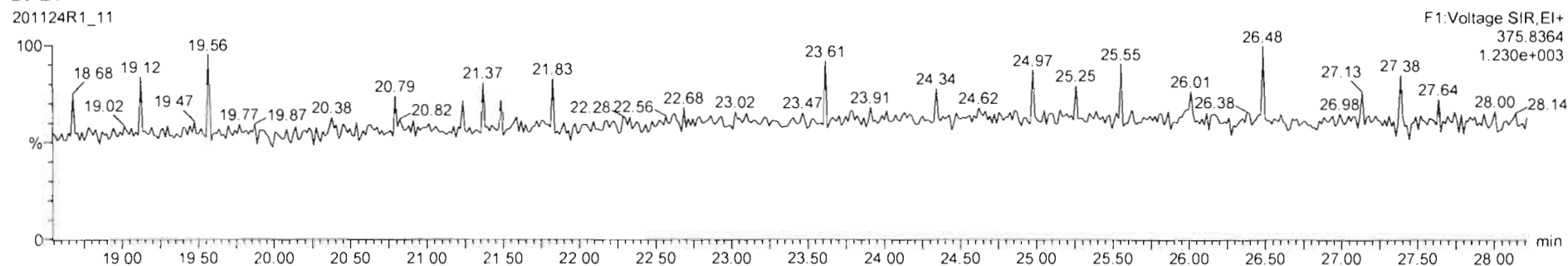
2,3,7,8-TCDF



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



DPE1



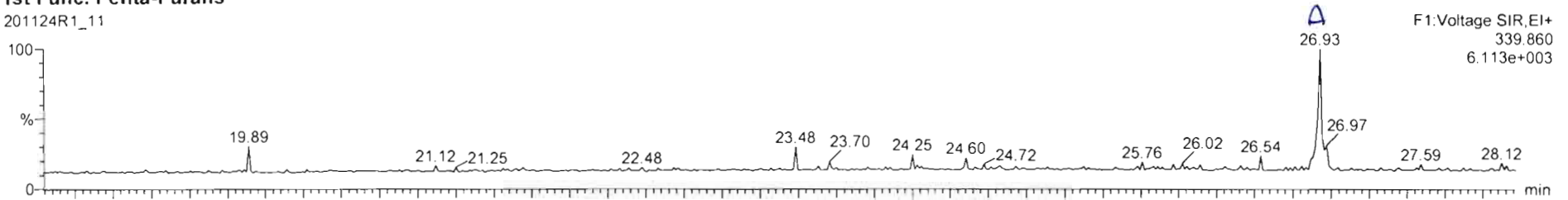
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Last Altered: Wednesday, November 25, 2020 07:04:08 Pacific Standard Time
Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

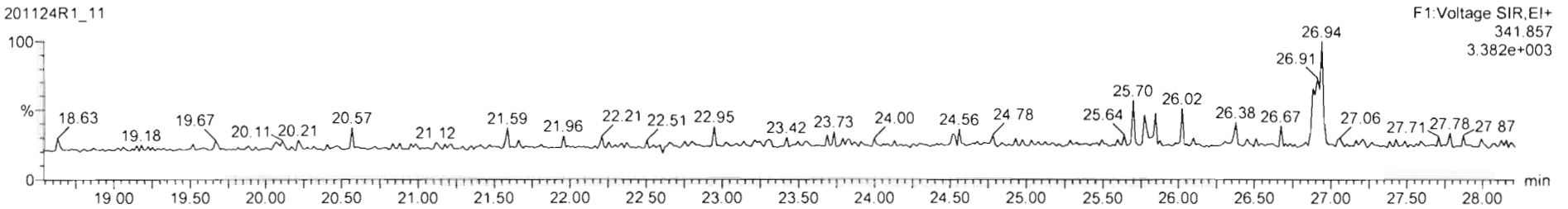
Name: 201124R1_11, Date: 24-Nov-2020, Time: 18:53:16, ID: 2002436-01 USMPDI-027SC-A-01-02-201106 11.53, Description: USMPDI-027SC-A-01-02-201106

1st Func. Penta-Furans

201124R1_11

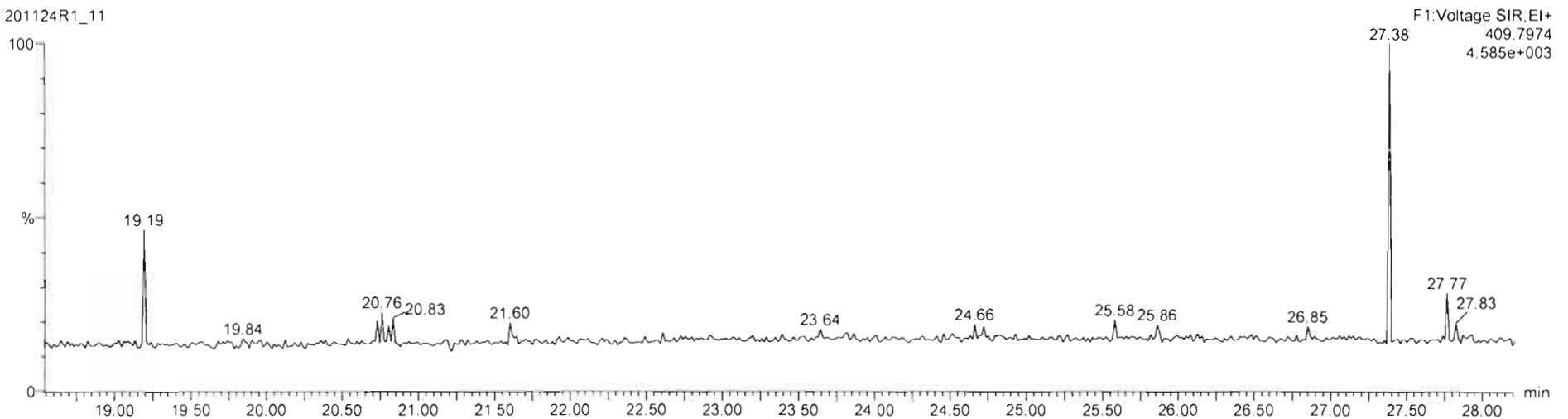


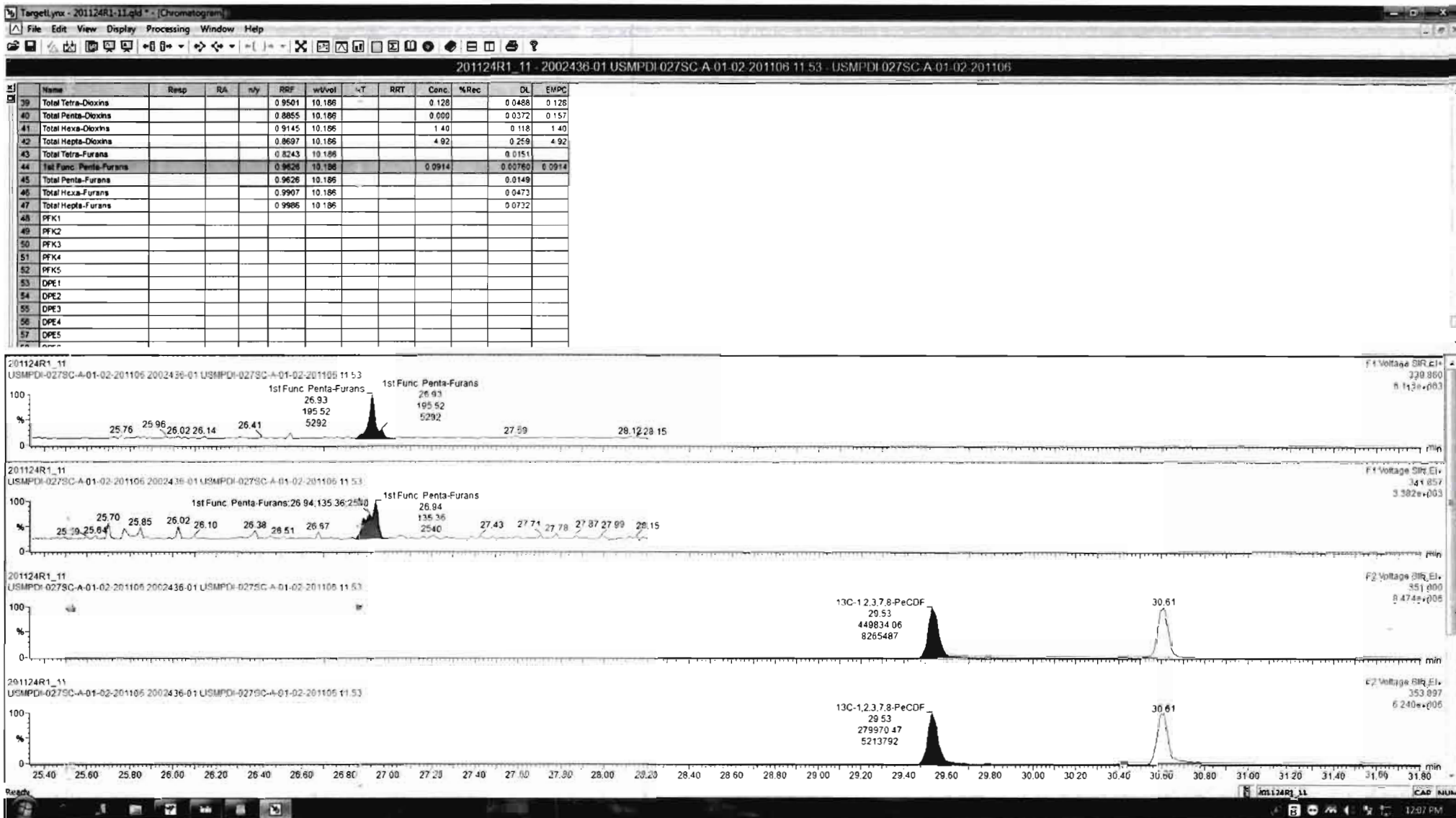
201124R1_11



DPE6

201124R1_11



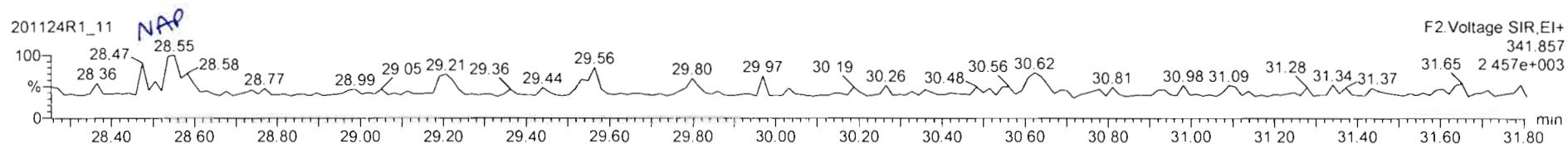
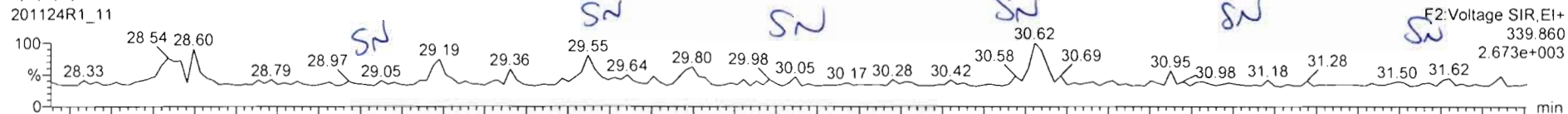


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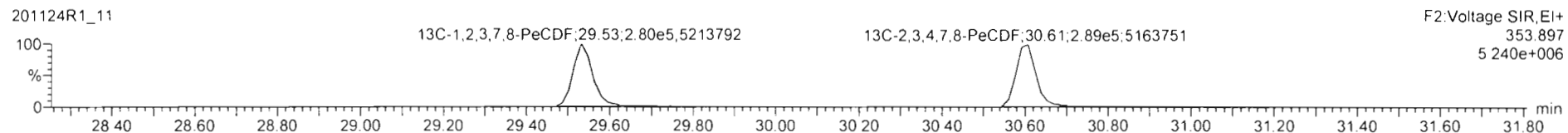
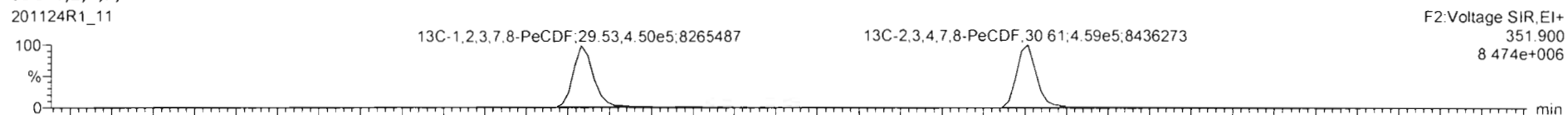
Last Altered: Wednesday, November 25, 2020 07:04:08 Pacific Standard Time
Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

Name: 201124R1_11, Date: 24-Nov-2020, Time: 18:53:16, ID: 2002436-01 USMPDI-027SC-A-01-02-201106 11.53, Description: USMPDI-027SC-A-01-02-201106

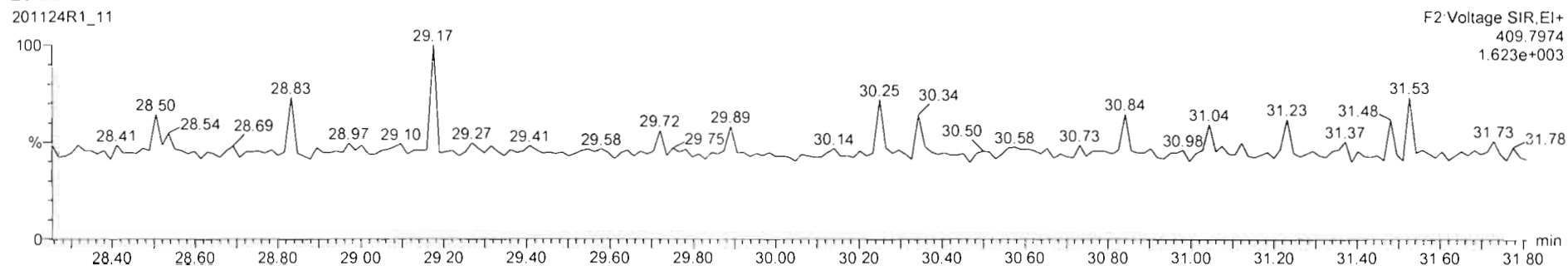
1,2,3,7,8-PeCDF

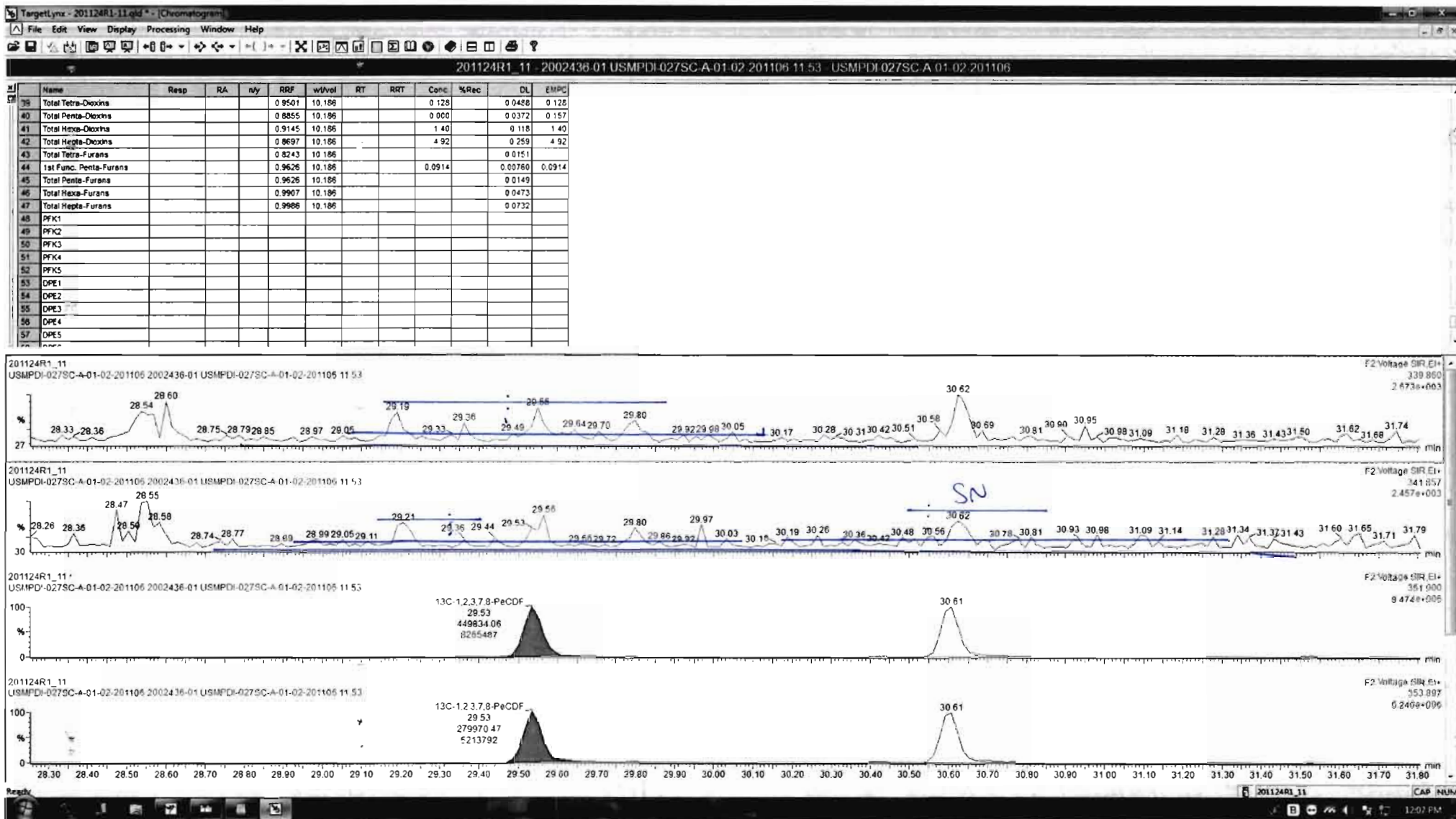


13C-1,2,3,7,8-PeCDF



DPE2





Dataset: Untitled

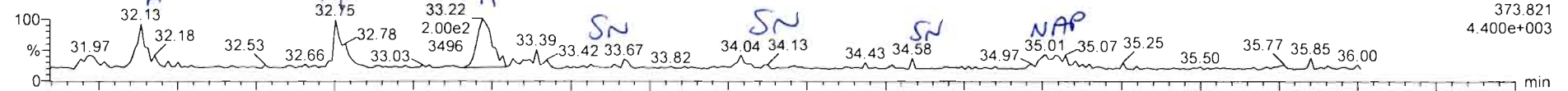
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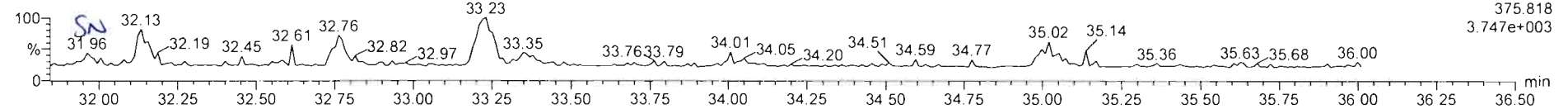
Name: 201124R1_11, Date: 24-Nov-2020, Time: 18:53:16, ID: 2002436-01 USMPDI-027SC-A-01-02-201106 11.53, Description: USMPDI-027SC-A-01-02-201106

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

201124R1_11

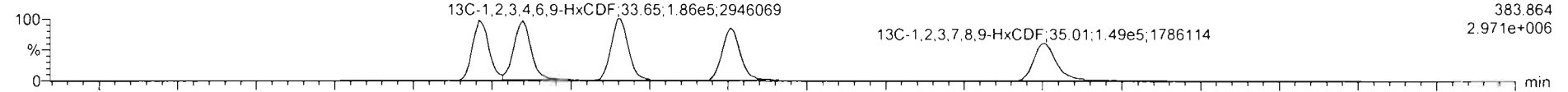


201124R1_11

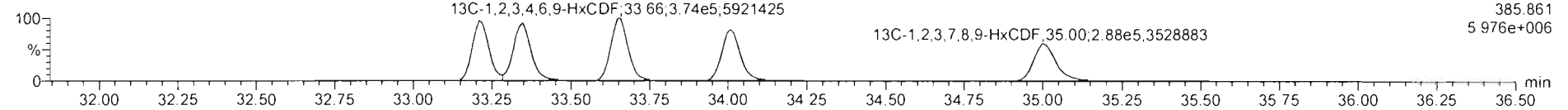


13C-1,2,3,4,7,8-HxCDF

201124R1_11

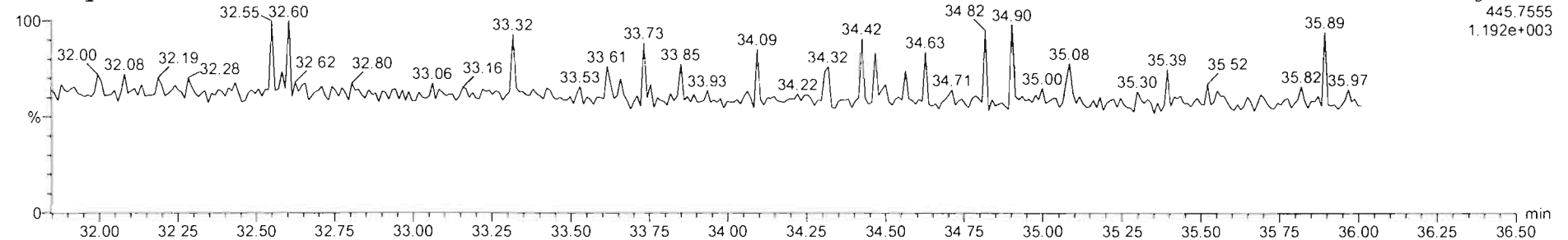


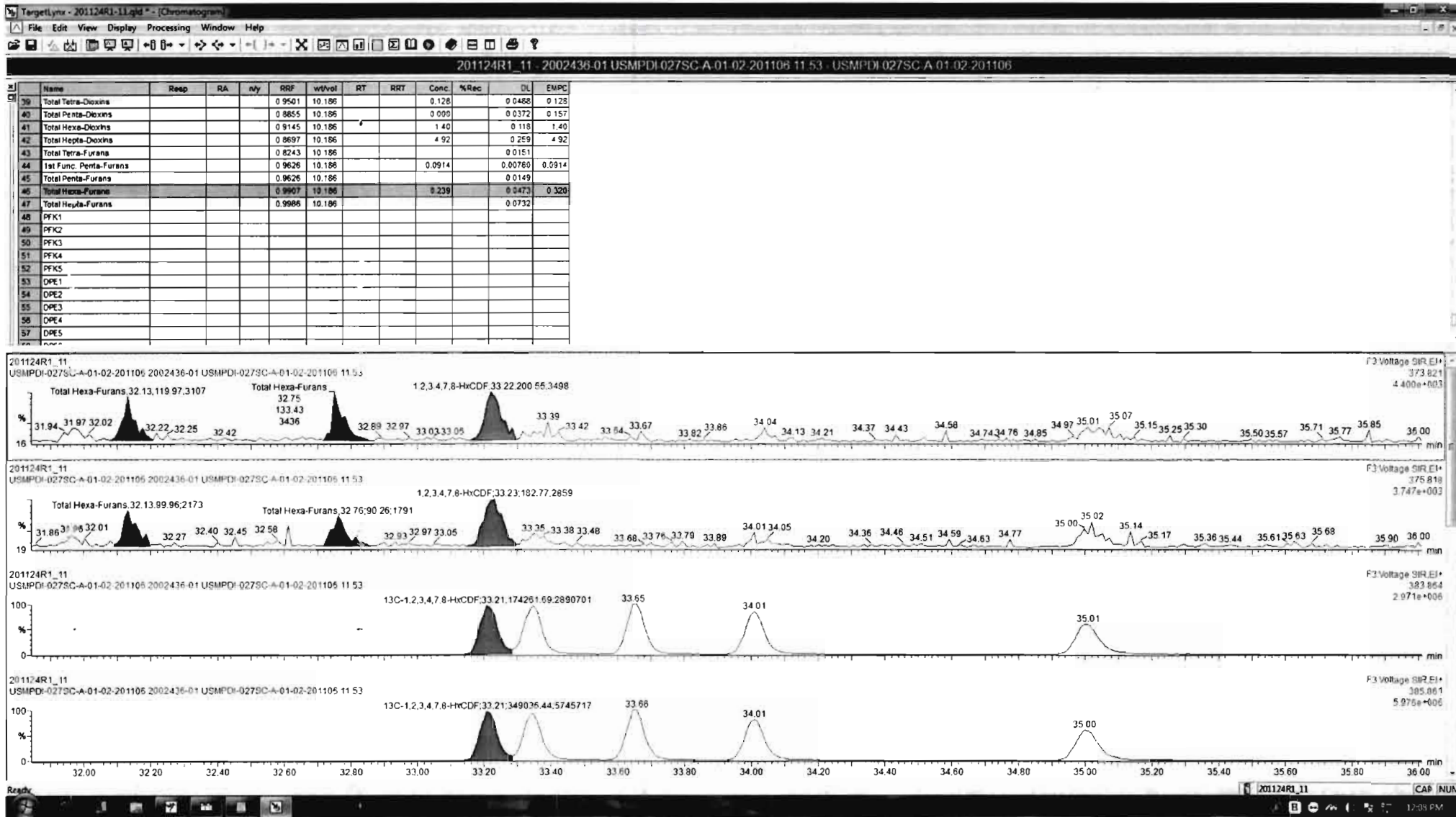
201124R1_11



DPE3

201124R1_11



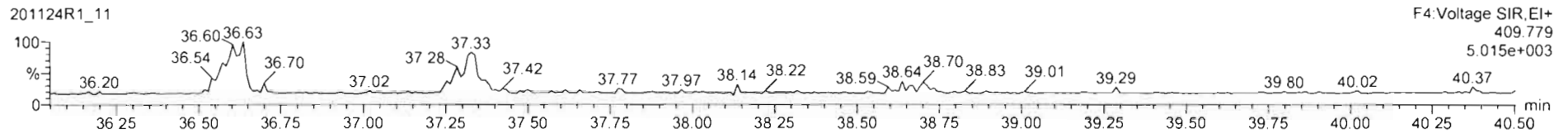
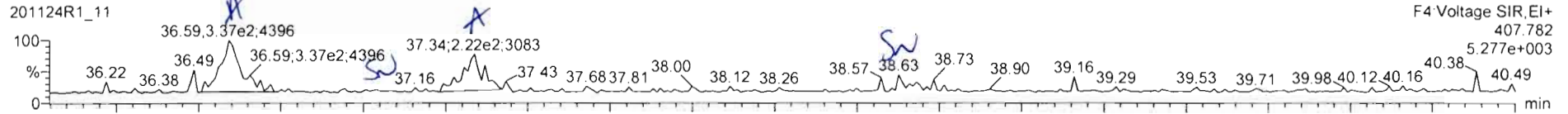


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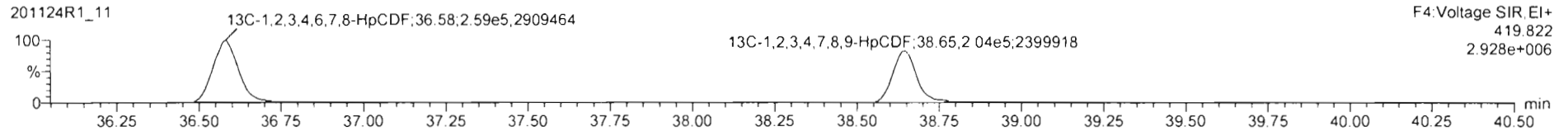
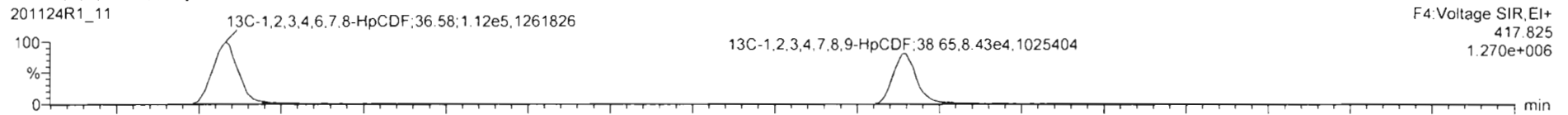
Last Altered: Wednesday, November 25, 2020 07:04:08 Pacific Standard Time
Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

Name: 201124R1_11, Date: 24-Nov-2020, Time: 18:53:16, ID: 2002436-01 USMPDI-027SC-A-01-02-201106 11.53, Description: USMPDI-027SC-A-01-02-201106

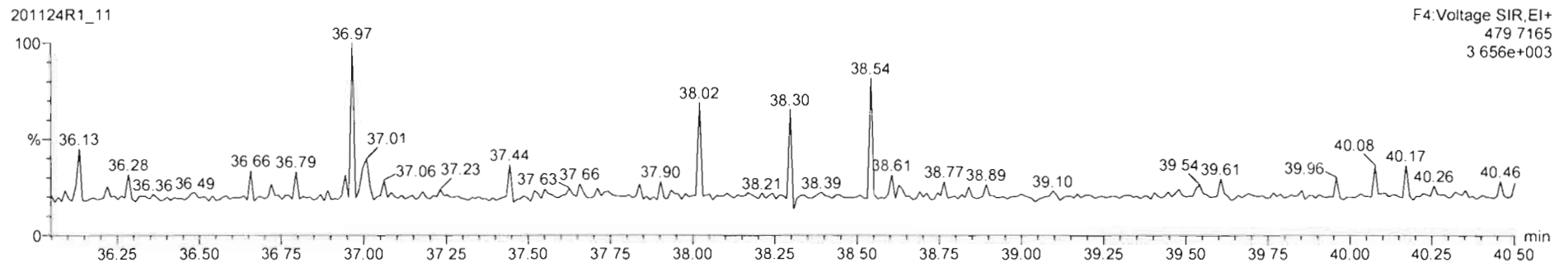
1,2,3,4,6,7,8-HpCDF



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



DPE4

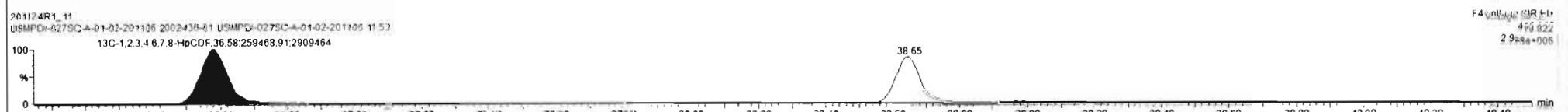
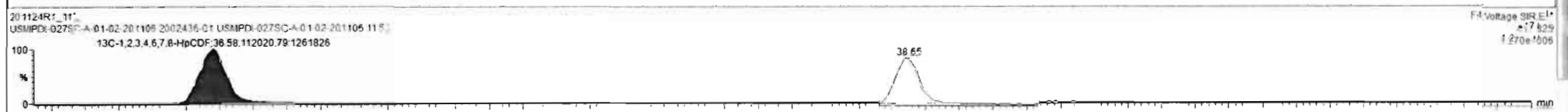
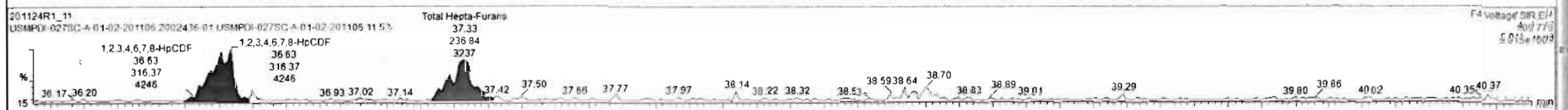
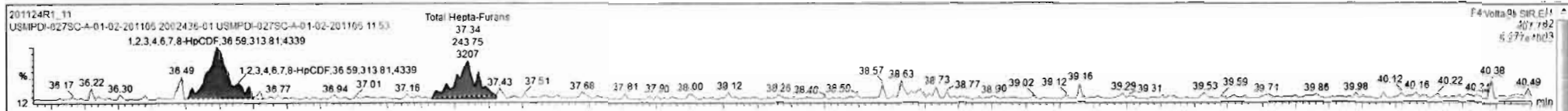


TargetLynx - 201124R1-11.qld - (Chromatogram)

File Edit View Display Processing Window Help

201124R1_11 - 2002436-01 USMPDI-027SC-A-01-02-201106 11:53 USMPDI-027SC-A-01-02-201106

Name	Resp	RA	n/y	RRF	wt/Vol	k.f	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins			0.9501	10.186			0.128	0.0488	0.128	
40	Total Penta-Dioxins			0.8855	10.186			0.000	0.0372	0.157	
41	Total Hexa-Dioxins			0.9145	10.186			1.40	0.118	1.40	
42	Total Hepta-Dioxins			0.8697	10.186			4.92	0.259	4.92	
43	Total Tetra-Furans			0.8243	10.186				0.0151		
44	1st Funct. Penta-Furans			0.9626	10.186			0.0914	0.00760	0.0914	
45	Total Penta-Furans			0.9626	10.186				0.0149		
46	Total Hexa-Furans			0.8907	10.186			0.239	0.0473	0.320	
47	Total Hepta-Furans			0.9986	10.186			8.626	0.0732	0.820	
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										

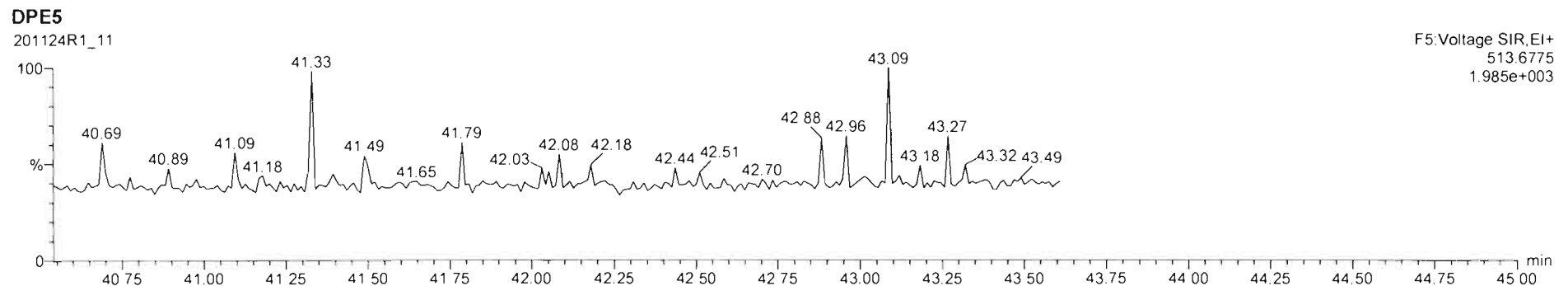
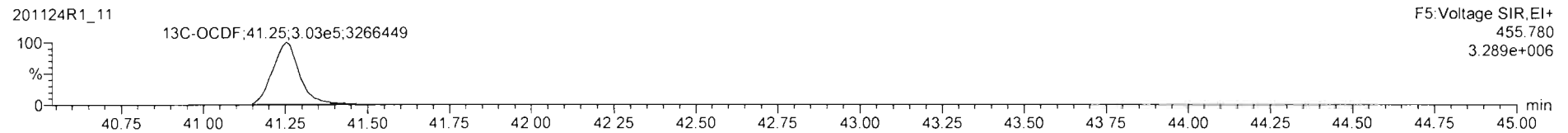
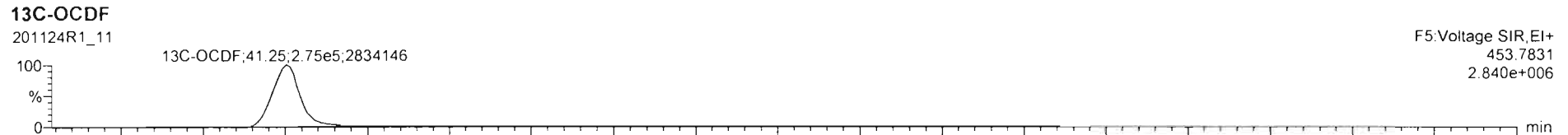
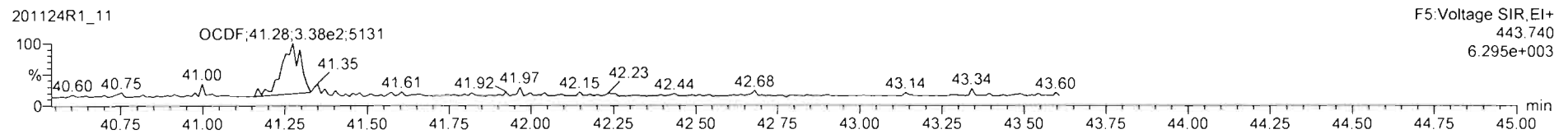
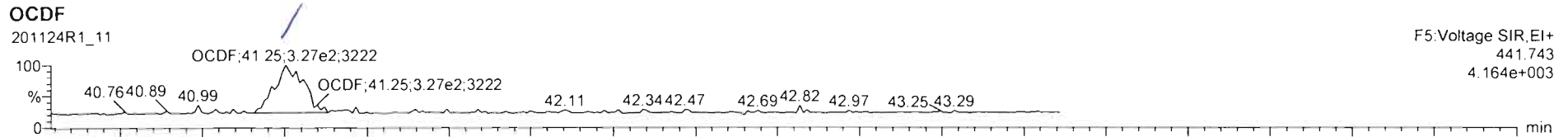


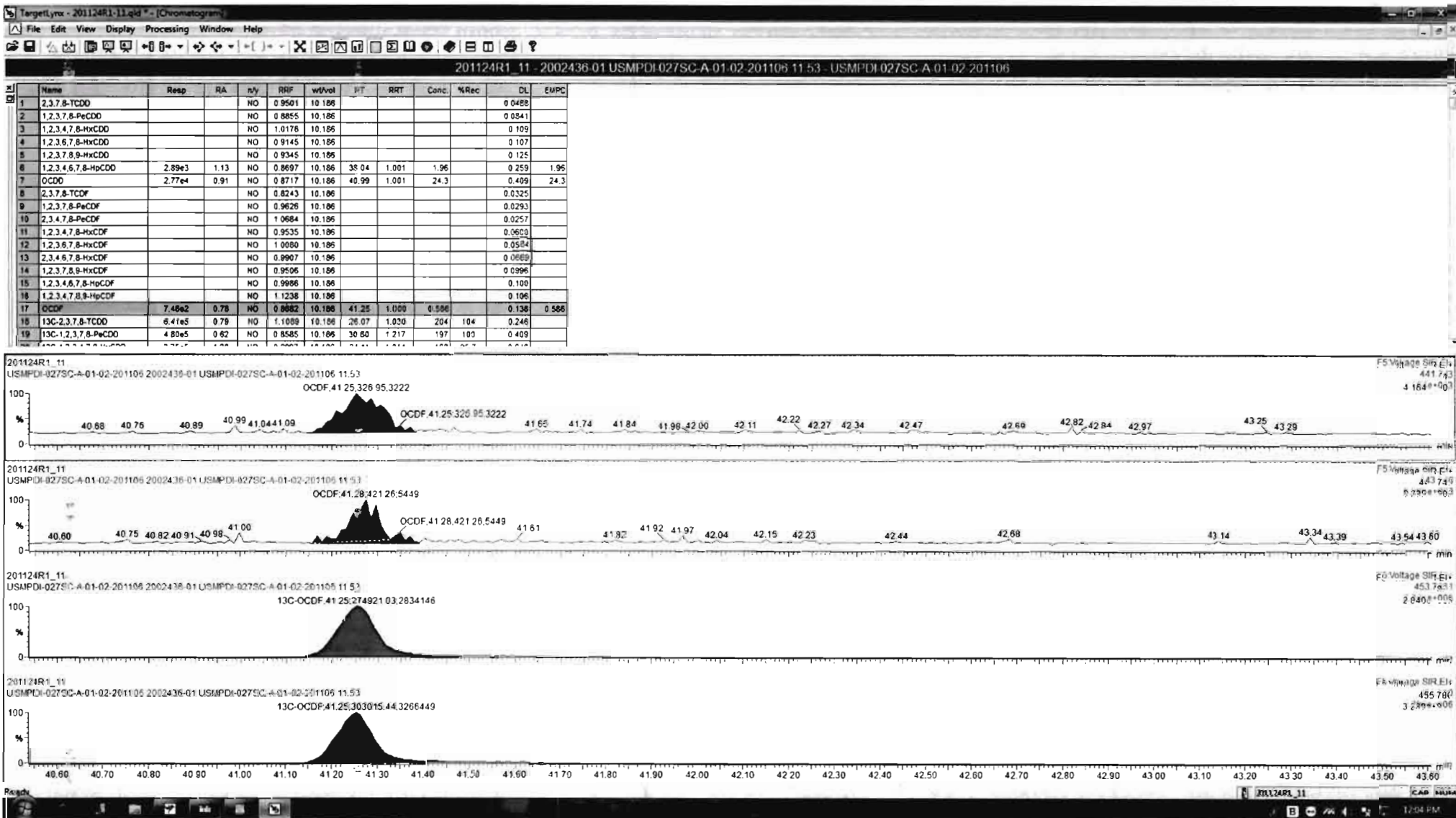
Dataset: Untitled

Last Altered: Wednesday, November 25, 2020 07:04:08 Pacific Standard Time

Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

Name: 201124R1_11, Date: 24-Nov-2020, Time: 18:53:16, ID: 2002436-01 USMPDI-027SC-A-01-02-201106 11.53, Description: USMPDI-027SC-A-01-02-201106





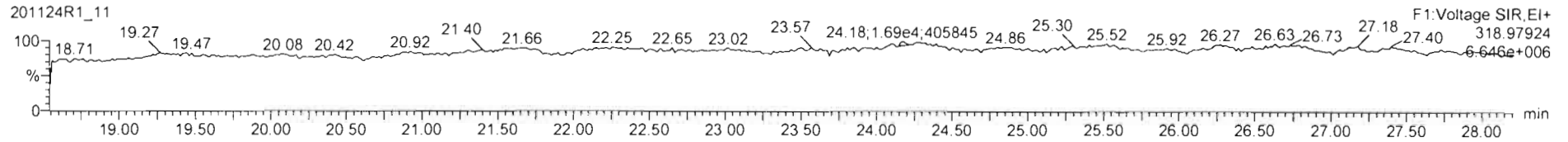
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Last Altered: Wednesday, November 25, 2020 07:04:08 Pacific Standard Time

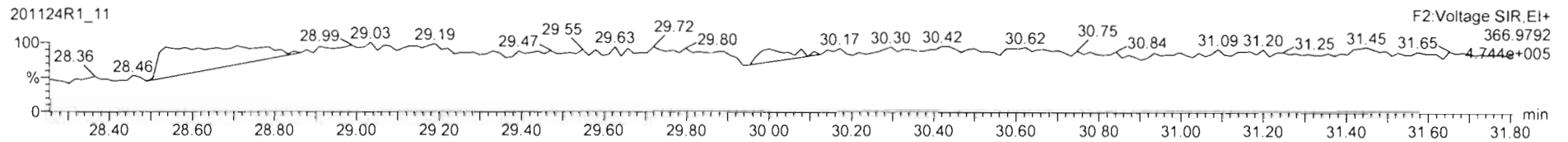
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Name: 201124R1_11, Date: 24-Nov-2020, Time: 18:53:16, ID: 2002436-01 USMPDI-027SC-A-01-02-201106 11.53, Description: USMPDI-027SC-A-01-02-201106

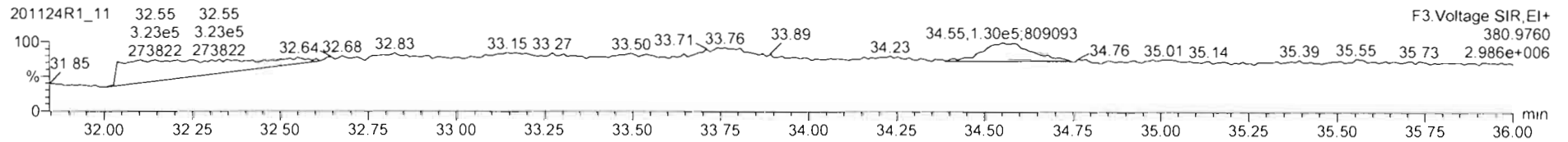
PFK1



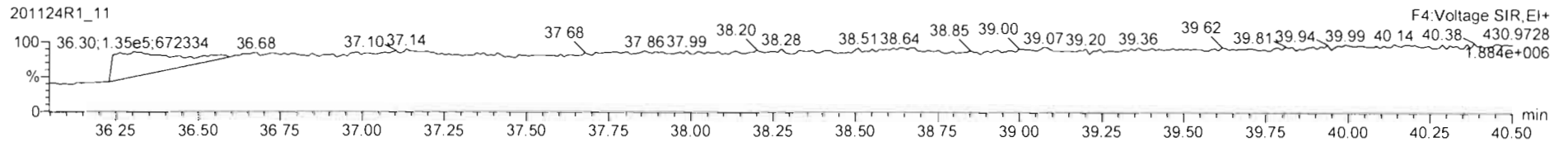
PFK2



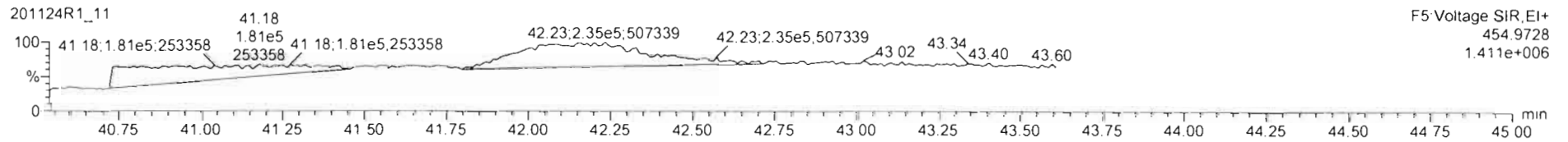
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201125R2\201125R2-14.qld

Last Altered: Thursday, November 26, 2020 09:45:57 Pacific Standard Time
Printed: Thursday, November 26, 2020 09:46:21 Pacific Standard Time

GRB 11/26/2020

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_14, Date: 26-Nov-2020, Time: 07:15:21, ID: 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12.58, Description: USMPDI-027SC-A-02-03-201106

#	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	10.378	26.097		1.001				0.0571	
2	2 1,2,3,7,8-PeCDD			NO	0.885	10.378	30.816		1.000				0.101	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.378	34.132		1.000				0.109	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.378	34.260		1.000				0.111	
5	5 1,2,3,7,8,9-HxCDD			NO	0.934	10.378	34.537		1.000				0.124	
6	6 1,2,3,4,6,7,8-HpCDD	1.28e3	0.96	NO	0.870	10.378	38.028	38.06	1.000	1.001	1.1064		0.333	1.11
7	7 OCDD	1.12e4	0.88	NO	0.872	10.378	40.985	40.99	1.000	1.000	13.189		0.463	13.2
8	8 2,3,7,8-TCDF			NO	0.824	10.378	25.381		1.000				0.0384	
9	9 1,2,3,7,8-PeCDF			NO	0.963	10.378	29.540		1.000				0.0606	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.378	30.602		1.000				0.0544	
11	11 1,2,3,4,7,8-HxCDF			NO	0.953	10.378	33.217		1.000				0.0634	
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.378	33.355		1.000				0.0583	
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	10.378	34.019		1.000				0.0658	
14	14 1,2,3,7,8,9-HxCDF			NO	0.951	10.378	35.017		1.000				0.105	
15	15 1,2,3,4,6,7,8-HpCDF	6.39e2	1.25	YES	0.999	10.378	36.594	36.62	1.000	1.001	0.39476		0.108	0.358
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	10.378	38.656		1.000				0.120	
17	17 OCDF	4.54e2	0.68	YES	0.868	10.378	41.280	41.30	1.000	1.001	0.43240		0.239	0.372
18	18 13C-2,3,7,8-TCDD	5.25e5	0.84	NO	1.11	10.378	26.058	26.07	1.030	1.030	207.50	108	0.300	
19	19 13C-1,2,3,7,8-PeCDD	3.20e5	0.67	NO	0.859	10.378	30.774	30.81	1.216	1.218	163.26	84.7	0.547	
20	20 13C-1,2,3,4,7,8-HxCDD	2.92e5	1.32	NO	0.700	10.378	34.132	34.12	1.014	1.014	160.32	83.2	0.592	
21	21 13C-1,2,3,6,7,8-HxCDD	3.51e5	1.30	NO	0.833	10.378	34.270	34.25	1.018	1.017	161.91	84.0	0.497	
22	22 13C-1,2,3,7,8,9-HxCDD	3.40e5	1.25	NO	0.762	10.378	34.512	34.53	1.025	1.026	171.50	89.0	0.544	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.57e5	1.01	NO	0.650	10.378	37.997	38.03	1.129	1.130	151.98	78.9	0.939	
24	24 13C-OCDD	3.77e5	0.97	NO	0.539	10.378	40.962	40.99	1.217	1.217	268.31	69.6	0.642	
25	25 13C-2,3,7,8-TCDF	8.84e5	0.78	NO	0.981	10.378	25.380	25.37	1.003	1.003	191.21	99.2	0.292	
26	26 13C-1,2,3,7,8-PeCDF	6.37e5	1.60	NO	0.792	10.378	29.506	29.53	1.166	1.167	170.81	88.6	0.639	
27	27 13C-2,3,4,7,8-PeCDF	6.36e5	1.63	NO	0.778	10.378	30.564	30.60	1.208	1.210	173.55	90.1	0.650	
28	28 13C-1,2,3,4,7,8-HxCDF	4.36e5	0.51	NO	0.954	10.378	33.223	33.22	0.987	0.987	175.57	91.1	0.877	
29	29 13C-1,2,3,6,7,8-HxCDF	4.67e5	0.51	NO	1.01	10.378	33.354	33.35	0.991	0.991	178.34	92.5	0.831	
30	30 13C-2,3,4,6,7,8-HxCDF	4.30e5	0.52	NO	0.921	10.378	34.024	34.02	1.011	1.010	179.34	93.1	0.908	
31	31 13C-1,2,3,7,8,9-HxCDF	3.62e5	0.51	NO	0.803	10.378	35.021	35.02	1.040	1.040	172.72	89.6	1.04	

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-14.qld

Last Altered: Thursday, November 26, 2020 09:45:57 Pacific Standard Time
Printed: Thursday, November 26, 2020 09:46:21 Pacific Standard Time

Name: 201125R2_14, Date: 26-Nov-2020, Time: 07:15:21, ID: 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12.58, Description: USMPDI-027SC-A-02-03-201106

#	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	3.13e5	0.42	NO	0.735	10.378	36.589	36.59	1.087	1.087	163.13	84.6	0.749	
33	13C-1,2,3,4,7,8,9-HpCDF	2.21e5	0.40	NO	0.568	10.378	38.626	38.66	1.147	1.148	149.62	77.6	0.970	
34	13C-OCDF	4.66e5	0.88	NO	0.629	10.378	41.245	41.27	1.225	1.226	284.29	73.8	0.726	
35	37Cl-2,3,7,8-TCDD	2.57e5			1.09	10.378	26.058	26.10	1.030	1.032	103.50	134	0.0833	
36	13C-1,2,3,4-TCDD	4.40e5	0.82	NO	1.00	10.378	25.370	25.30	1.000	1.000	192.72	100	0.333	
37	13C-1,2,3,4-TCDF	9.08e5	0.80	NO	1.00	10.378	23.870	23.81	1.000	1.000	192.72	100	0.287	
38	13C-1,2,3,4,6,9-HxCDF	5.02e5	0.50	NO	1.00	10.378	33.710	33.66	1.000	1.000	192.72	100	0.836	
39	Total Tetra-Dioxins				0.950	10.378	24.620		0.000				0.0292	
40	Total Penta-Dioxins				0.885	10.378	29.960		0.000				0.0508	
41	Total Hexa-Dioxins				0.915	10.378	33.635		0.000		0.17628		0.0657	0.176
42	Total Hepta-Dioxins				0.870	10.378	37.640		0.000		2.5000		0.333	2.50
43	Total Tetra-Furans				0.824	10.378	23.610		0.000				0.0175	
44	1st Func. Penta-Furans				0.963	10.378	26.930		0.000		0.00000		0.0126	0.108
45	Total Penta-Furans				0.963	10.378	29.275		0.000				0.0268	
46	Total Hexa-Furans				0.991	10.378	33.555		0.000		0.36862		0.0255	0.369
47	Total Hepta-Furans				0.999	10.378	37.835		0.000		0.00000		0.0508	0.738

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-14.qld

Last Altered: Thursday, November 26, 2020 09:45:57 Pacific Standard Time

Printed: Thursday, November 26, 2020 09:46:21 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_14, Date: 26-Nov-2020, Time: 07:15:21, ID: 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12.58, Description: USMPDI-027SC-A-02-03-201106

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	3.766e3	2.434e3	1.563e2	1.181e2	1.32	NO	2.744e2	0.17628	0.17628	0.0657

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	1.265e4	9.039e3	7.971e2	8.206e2	0.97	NO	1.618e3	1.3936	1.3936	0.333
2	1,2,3,4,6,7,8-HpCDD	38.06	9.095e3	9.605e3	6.280e2	6.563e2	0.96	NO	1.284e3	1.1064	1.1064	0.333

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	1st Func. Penta-Furans	26.91	4.438e3	2.682e3	2.551e2	1.341e2	1.90	YES	0.000e0	0.00000	0.10756	0.0126

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R2\201125R2-14.qld

Last Altered: Thursday, November 26, 2020 09:45:57 Pacific Standard Time

Printed: Thursday, November 26, 2020 09:46:21 Pacific Standard Time

Name: 201125R2_14, Date: 26-Nov-2020, Time: 07:15:21, ID: 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12.58, Description: USMPDI-027SC-A-02-03-201106

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	31.98	1.591e3	1.555e3	7.934e1	6.047e1	1.31	NO	1.398e2	0.064158	0.064158	0.0255
2	Total Hexa-Furans	32.15	4.839e3	2.770e3	1.618e2	1.307e2	1.24	NO	2.925e2	0.13423	0.13423	0.0255
3	Total Hexa-Furans	32.76	4.147e3	2.953e3	1.980e2	1.729e2	1.15	NO	3.710e2	0.17024	0.17024	0.0255

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	4.610e3	3.989e3	3.554e2	2.840e2	1.25	YES	6.394e2	0.00000	0.35767	0.108
2	Total Hepta-Furans	37.36	3.661e3	5.416e3	2.681e2	3.087e2	0.87	YES	0.000e0	0.00000	0.38023	0.119

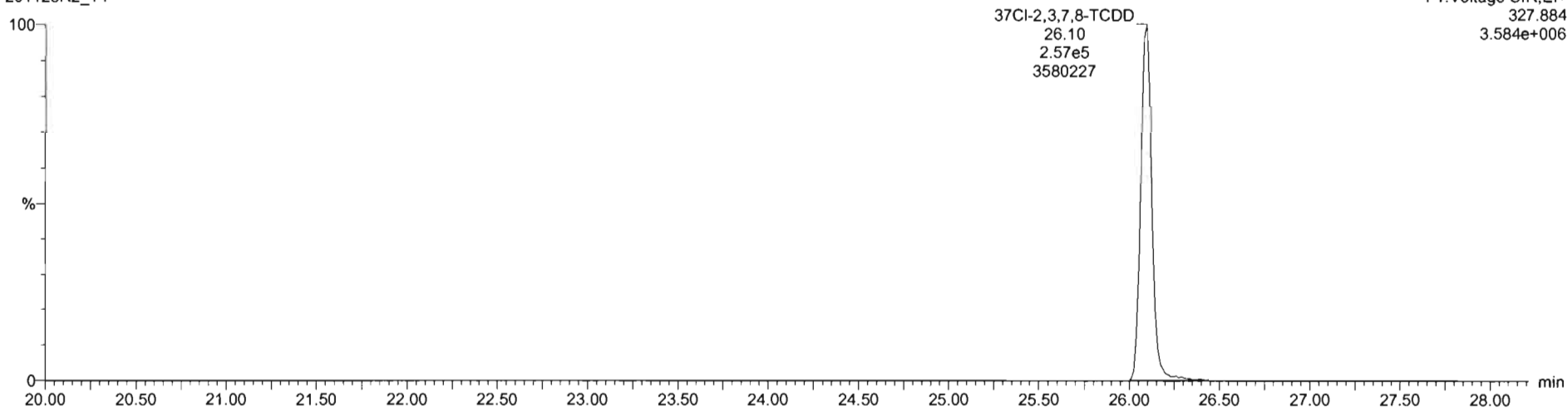
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Last Altered: Thursday, November 26, 2020 07:59:52 Pacific Standard Time
Printed: Thursday, November 26, 2020 08:00:05 Pacific Standard Time

Name: 201125R2_14, Date: 26-Nov-2020, Time: 07:15:21, ID: 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12.58, Description: USMPDI-027SC-A-02-03-201106

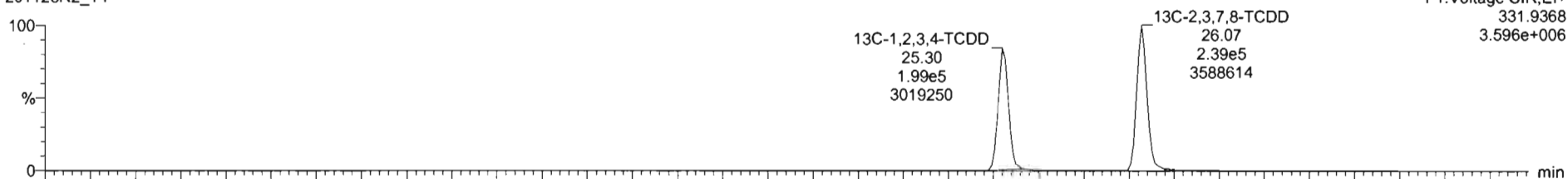
37Cl-2,3,7,8-TCDD

201125R2_14

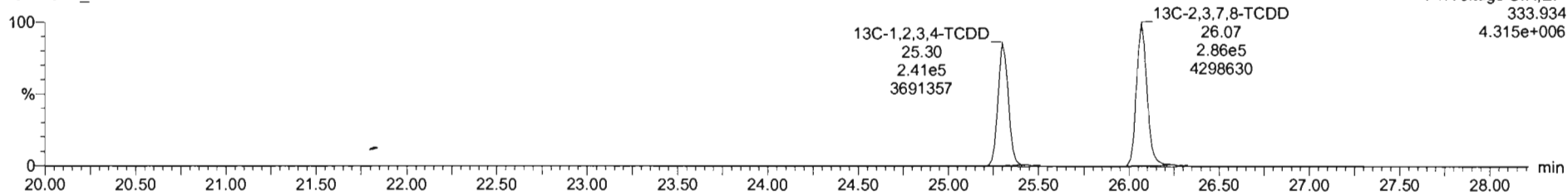


13C-1,2,3,4-TCDD

201125R2_14



201125R2_14



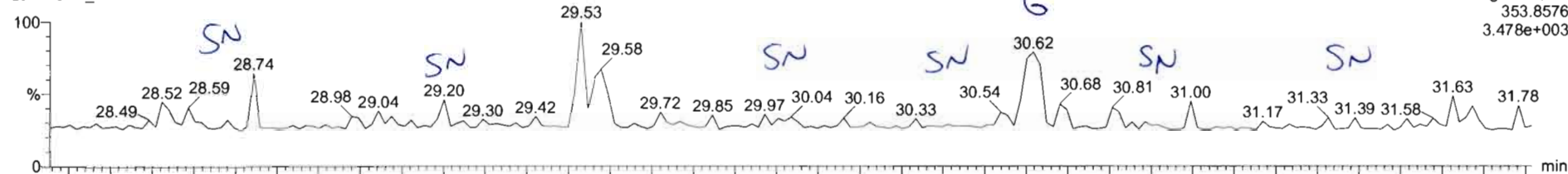
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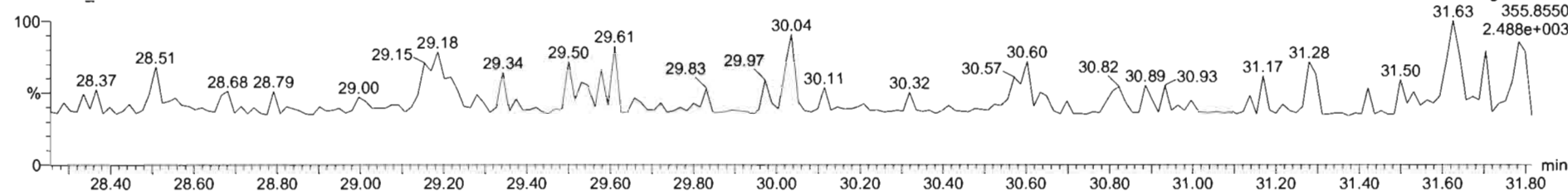
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1,2,3,7,8-PeCDD

201125R2_14



201125R2_14

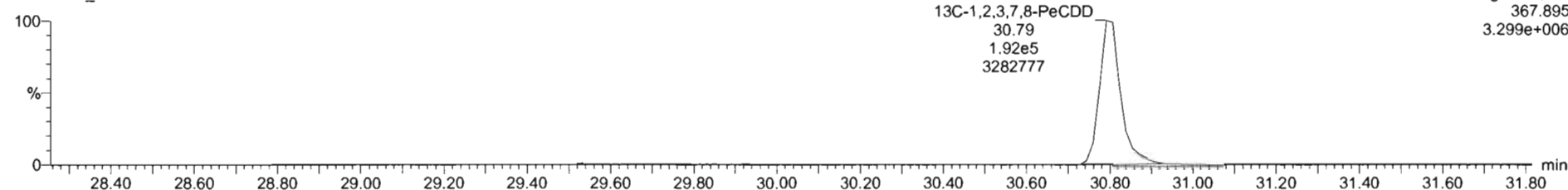


13C-1,2,3,7,8-PeCDD

201125R2_14



201125R2_14

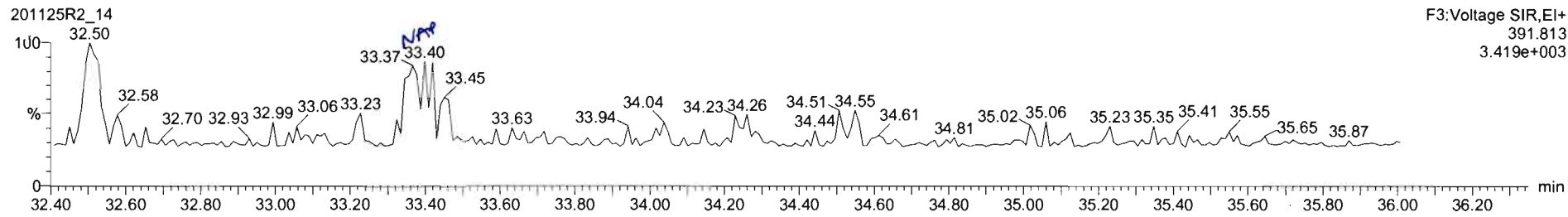
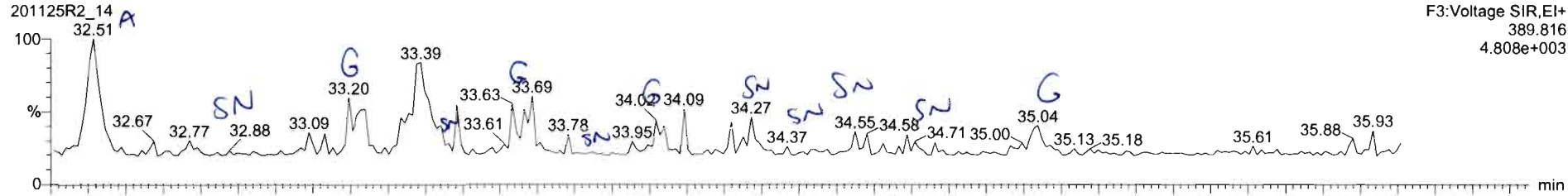


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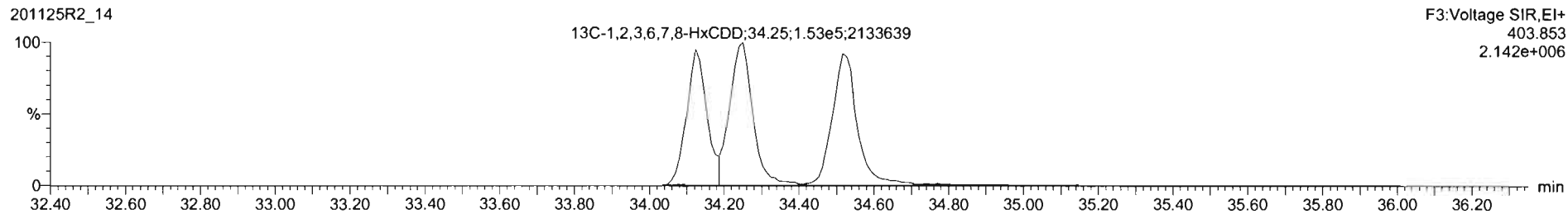
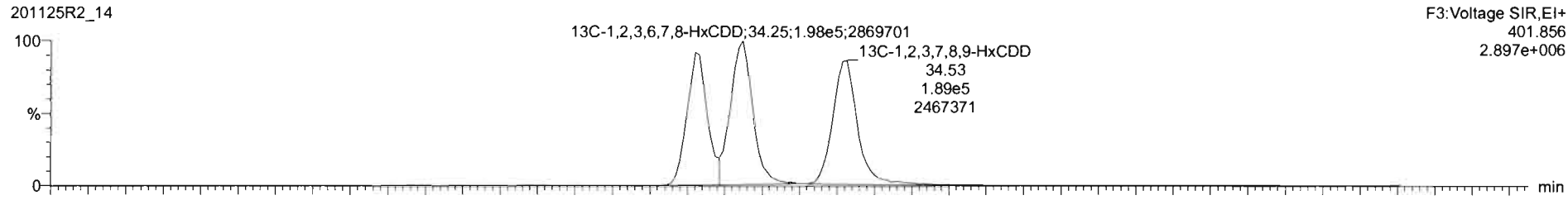
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Name: 201125R2_14, Date: 26-Nov-2020, Time: 07:15:21, ID: 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12.58, Description: USMPDI-027SC-A-02-03-201106

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



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

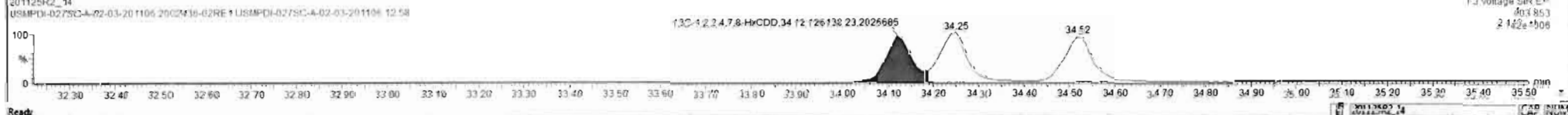
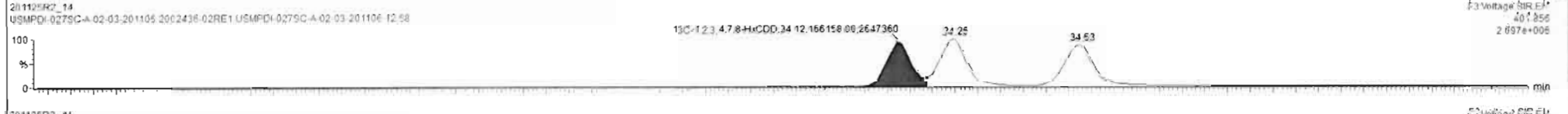
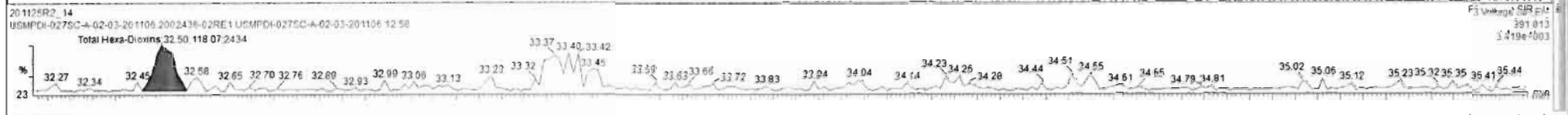
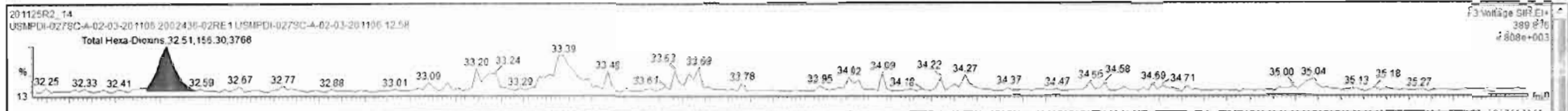


TargetLynx - 201125R2_14.qid - [Chromatogram]

File Edit View Display Processing Window Help

201125R2_14 - 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12:58 - USMPDI-027SC.A-02-03-201106

Name	Reso	RA	n/y	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HxCDF	5.02e5	0.50	HO	1.0000	10.378	33.99	1.009	193	100	0.836
39	Total Tetra-Dioxins				0.9501	10.378				0.0292	
40	Total Penta-Dioxins				0.8855	10.378				0.0508	
41	Total Hexa-Dioxins				0.9145	10.378		0.176		0.0667	0.176
42	Total Hepta-Dioxins				0.8697	10.378		0.050		0.205	1.51
43	Total Tetra-Furans				0.8243	10.378				0.0175	
44	1st Func. Penta-Furans				0.9528	10.378				0.0128	
45	Total Penta-Furans				0.9626	10.378				0.0268	
46	Total Hexa-Furans				0.9907	10.378				0.0255	
47	Total Hepta-Furans				0.9996	10.378		0.000		0.0508	0.358
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										



Dataset: Untitled

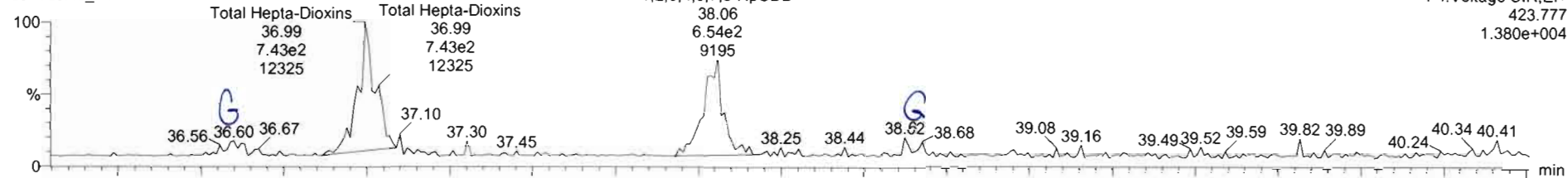
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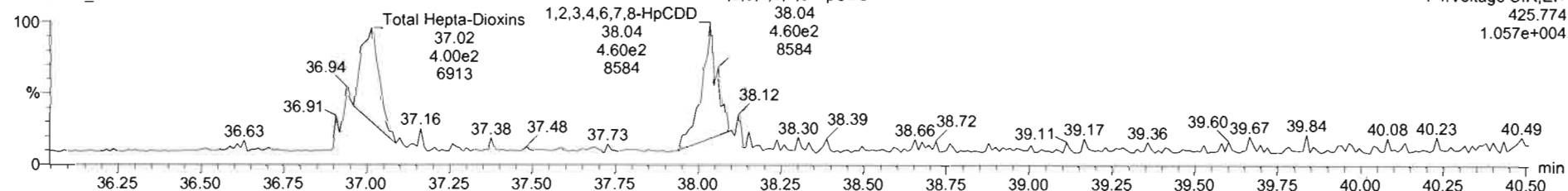
Name: 201125R2_14, Date: 26-Nov-2020, Time: 07:15:21, ID: 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12.58, Description: USMPDI-027SC-A-02-03-201106

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

201125R2_14

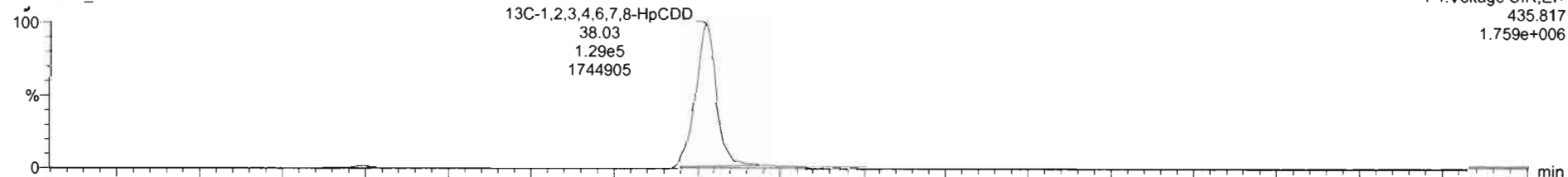


201125R2_14

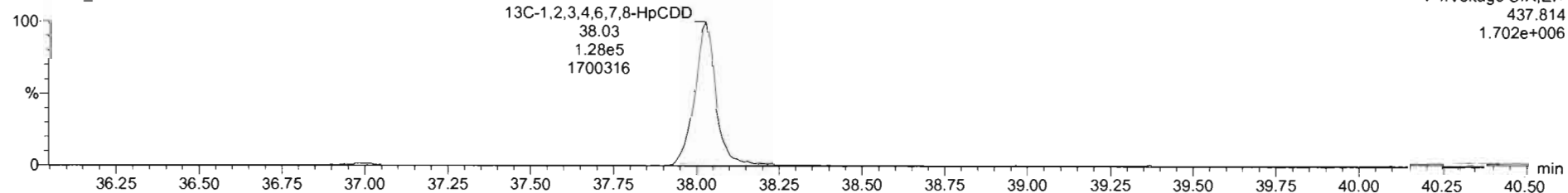


13C-1,2,3,4,6,7,8-HpCDD

201125R2_14



201125R2_14

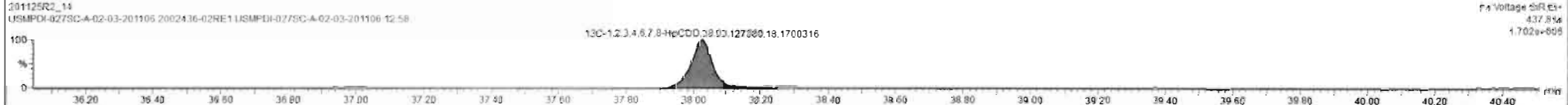
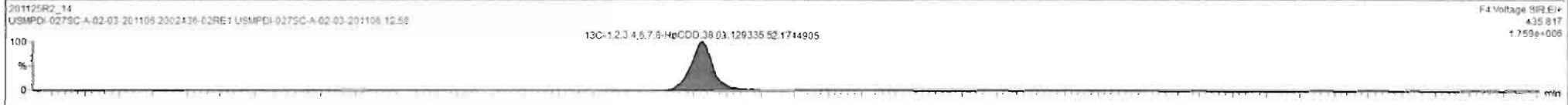
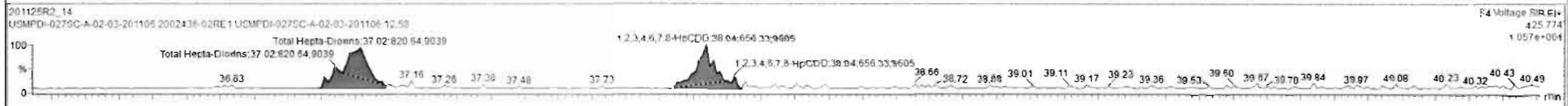
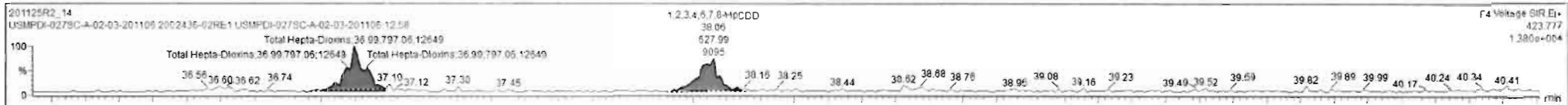


TargetLynx - 201125R2-14.qid - (Chromatogram)

File Edit View Display Processing Window Help

201125R2_14 - 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12:58 USMPDI-027SC-A-02-03-201106

Name	Resp	RA	nly	RRF	wVol	RT	RRT	Cconc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HxCDF	5.02e5	0.50	NO	1.0000	10.378	33.68	1.000	193	100	0.838
39	Total Tetra-Dioxins				0.9501	10.378					0.0292
40	Total Penta-Dioxins				0.8855	10.378					0.0508
41	Total Hexa-Dioxins				0.9145	10.378		0.175			0.0857
42	Total Hepta-Dioxins				0.8697	10.378		2.50			0.332
43	Total Tetra-Furans				0.8243	10.378					0.0175
44	1st Func. Penta-Furans				0.9626	10.378					0.0126
45	Total Penta-Furans				0.9626	10.378					0.0268
46	Total Hexa-Furans				0.9907	10.378					0.0255
47	Total Hepta-Furans				0.9996	10.378		0.000			0.0508
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										

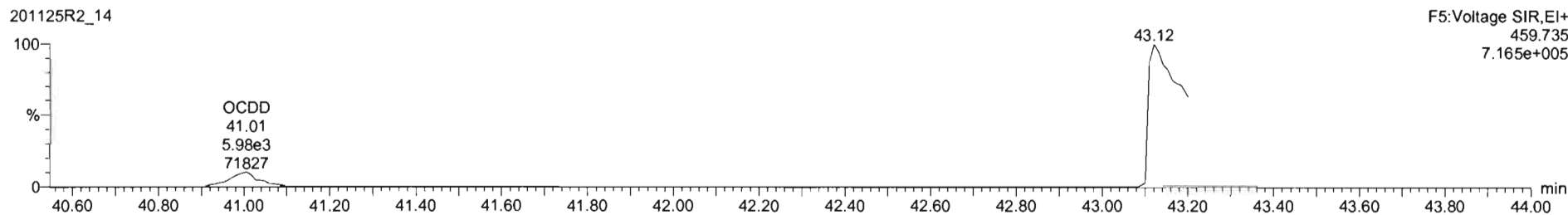
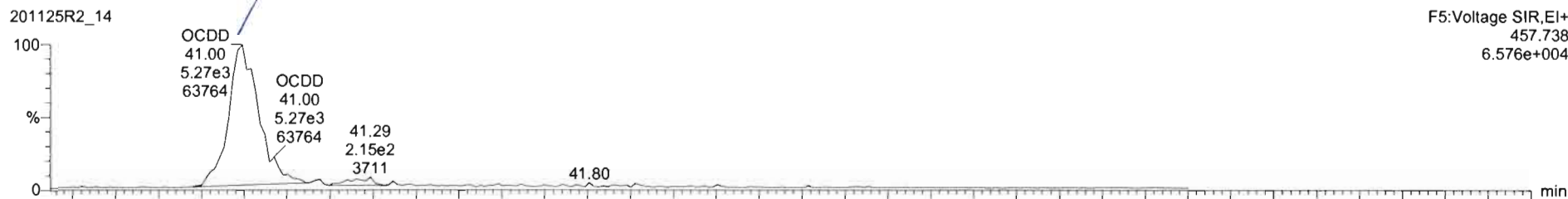


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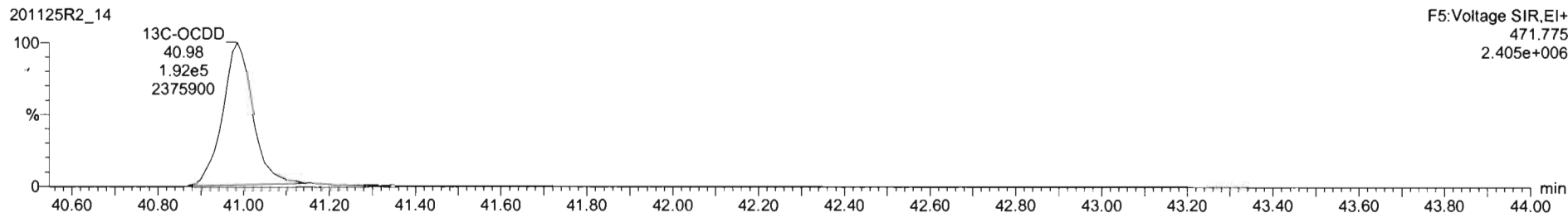
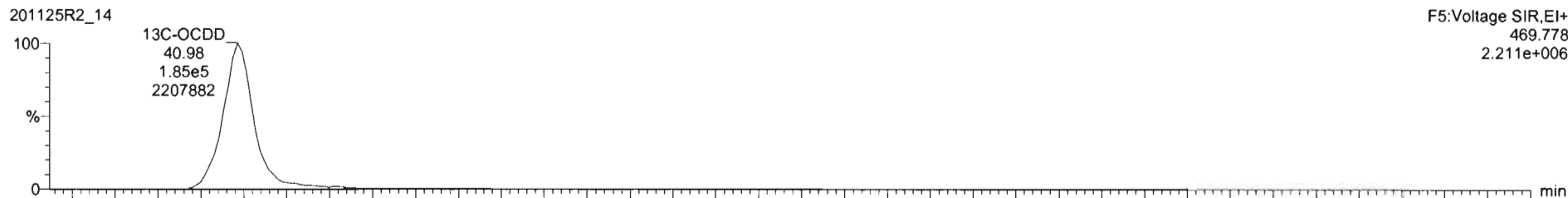
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Name: 201125R2_14, Date: 26-Nov-2020, Time: 07:15:21, ID: 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12.58, Description: USMPDI-027SC-A-02-03-201106

OCDD



13C-OCDD

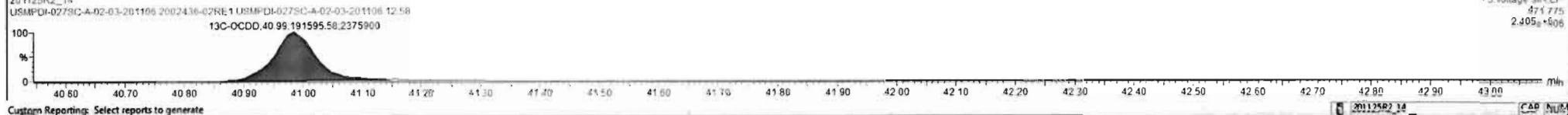


TargetLynx - 201125R2_14.qld - [Chromatogram]

File Edit View Display Processing Window Help

201125R2_14 - 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12:58 - USMPDI-027SC-A-02-03-201106

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.9501	10.378				0.0571	
2	1,2,3,7,8-PeCDD			NO	0.8655	10.378				0.101	
3	1,2,3,4,7,8-HxCDD			NO	1.0176	10.378				0.109	
4	1,2,3,6,7,8-HxCDD			NO	0.9145	10.378				0.111	
5	1,2,3,7,8,9-HxCDD			NO	0.9345	10.378				0.124	
6	1,2,3,4,6,7,8-HpCDD	1.11e3	1.42	YES	0.8697	10.378	38.06	1.001	0.080	0.233	0.202
7	OCDD	1.12e4	0.88	NO	0.8717	10.378	40.99	1.000	12.2	0.483	12.2
8	2,3,7,8-TCDF			NO	0.8243	10.378				0.0304	
9	1,2,3,7,8-PeCDF			NO	0.9626	10.378				0.0506	
10	2,3,4,7,8-PeCDF			NO	1.0684	10.378				0.0544	
11	1,2,3,4,7,8-HxCDF			NO	0.9535	10.378				0.0574	
12	1,2,3,6,7,8-HxCDF			NO	1.0080	10.378				0.0583	
13	2,3,4,6,7,8-HxCDF			NO	0.9907	10.378				0.0658	
14	1,2,3,7,8,9-HxCDF			NO	0.9506	10.378				0.105	
15	1,2,3,4,6,7,8-HpCDF	6.43e2	1.26	YES	0.9996	10.378	26.62	1.001	0.397	0.108	0.368
16	1,2,3,4,7,8,9-HpCDF			NO	1.1238	10.378				0.120	
17	OCDF			NO	0.8682	10.378				0.239	
18	13C-2,3,7,8-TCDD	5.25e5	0.84	NO	1.1089	10.378	26.07	1.039	205	102	0.300
19	13C-1,2,3,7,8-PeCDD	3.20e5	0.87	NO	0.8595	10.378	30.61	1.218	123	84.7	0.547
20	13C-1,2,3,4,7,8-HxCDD	2.92e5	1.32	NO	0.8997	10.378	34.12	1.014	160	83.2	0.582
21	13C-1,2,3,6,7,8-HxCDD	3.51e5	1.29	NO	0.8327	10.378	34.25	1.017	162	84.0	0.497



Custom Reporting: Select reports to generate

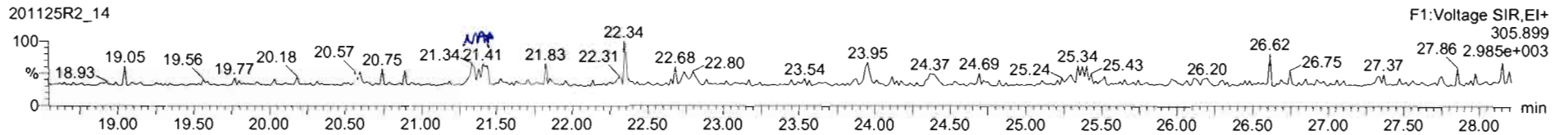
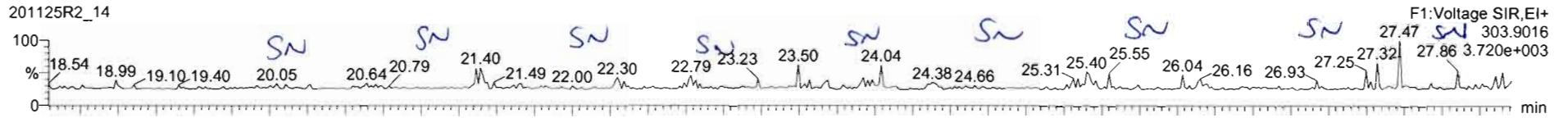
201125R2_14 CAP NUR

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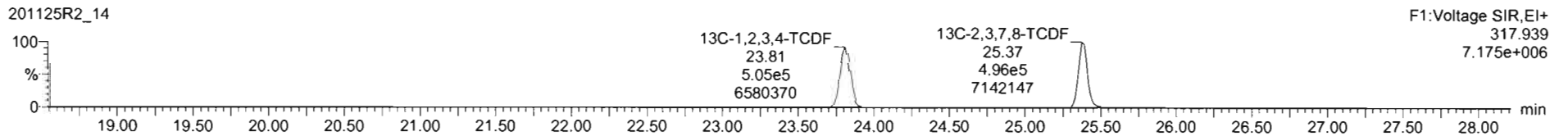
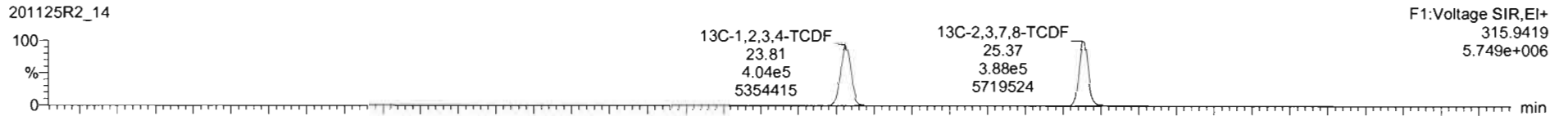
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Printed: Thursday, November 26, 2020 08:00:05 Pacific Standard Time

Name: 201125R2_14, Date: 26-Nov-2020, Time: 07:15:21, ID: 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12.58, Description: USMPDI-027SC-A-02-03-201106

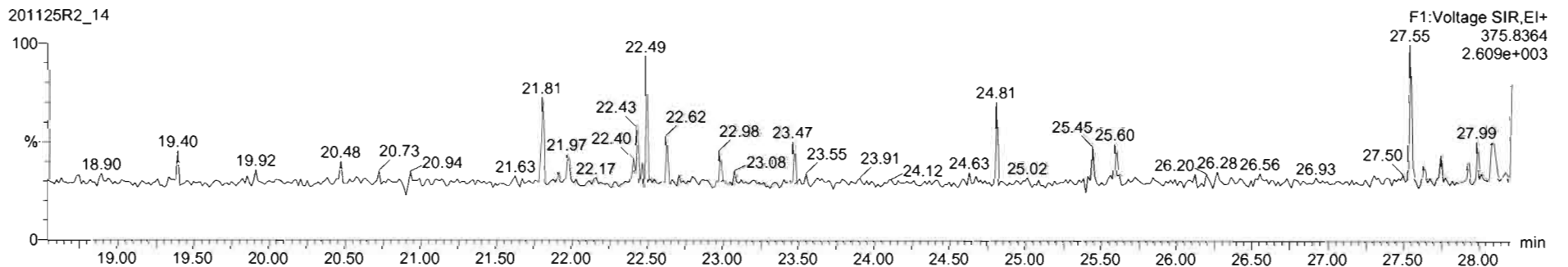
2,3,7,8-TCDF



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



DPE1



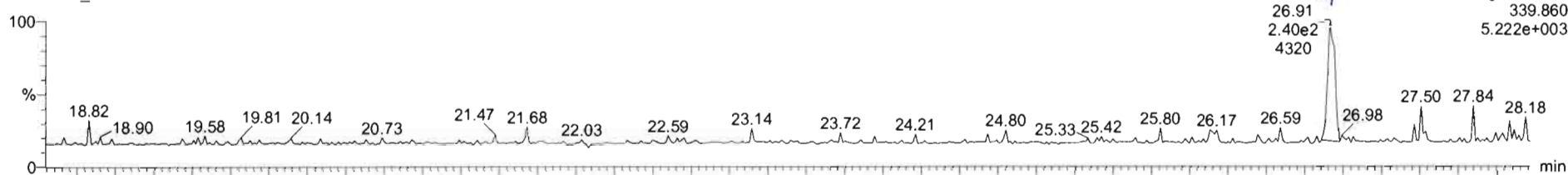
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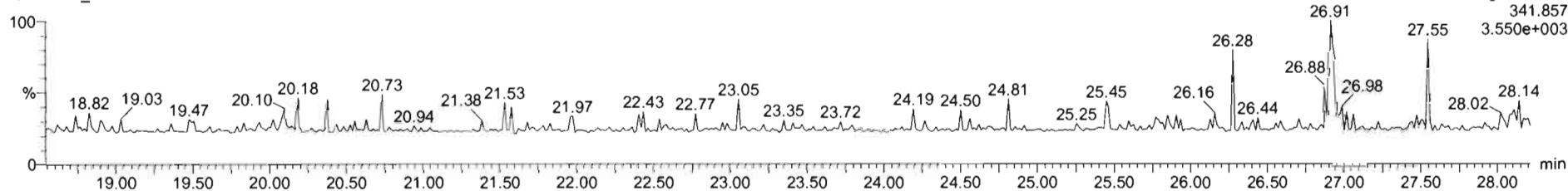
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1st Func. Penta-Furans

201125R2_14

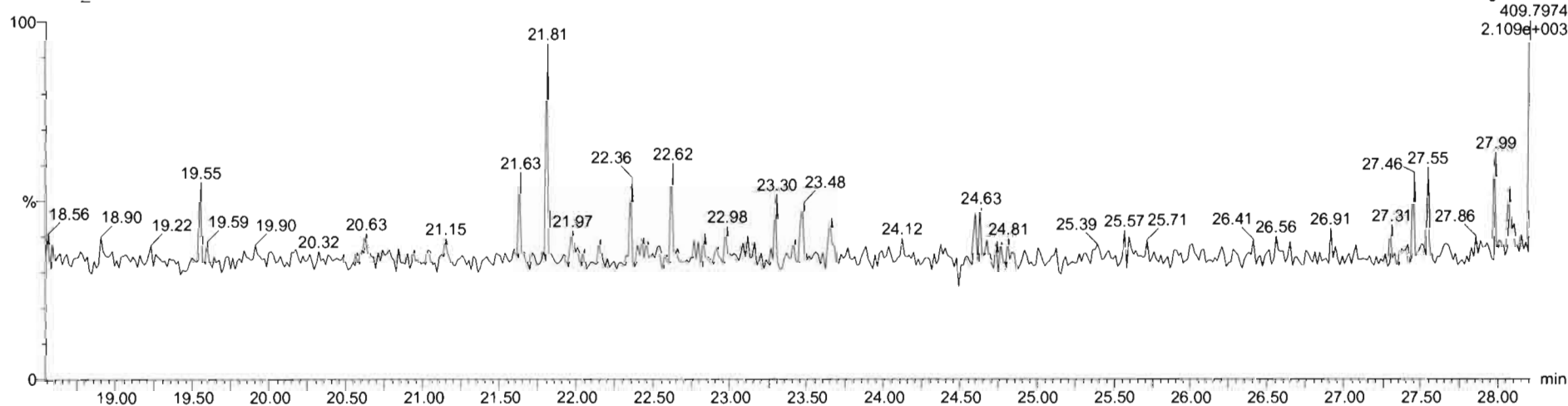


201125R2_14



DPE6

201125R2_14



TargetLynx - 201125R2_14.qld - (Chromatogram)

201125R2_14 - 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12:58 - USMPDI-027SC-A-02-03-201106

Name	Resp	RA	n/y	RRF	wWol	RT	RRT	Conc	%Rec	DL	EMPC
38 13C-1,2,3,4,8,9-HxCDF	5.02e5	0.50	NO	1.0000	10.378	33.98	1.000	193	100	0.838	
39 Total Tetra-Dioxins				3.9501	10.378					0.0292	
40 Total Penta-Dioxins				0.8865	10.378					0.0508	
41 Total Hexa-Dioxins				0.9145	10.378			0.175		0.0667	0.175
42 Total Hepta-Dioxins				0.8697	10.378			2.50		0.333	2.50
43 Total Tetra-Furans				0.8243	10.378					0.0175	
44 1st Func. Penta-Furans				0.9526	10.378			0.000		0.0126	0.108
45 Total Penta-Furans				0.9526	10.378					0.0288	
46 Total Hexa-Furans				0.9907	10.378					0.0255	
47 Total Hepta-Furans				0.9986	10.378			0.000		0.0508	0.358
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											

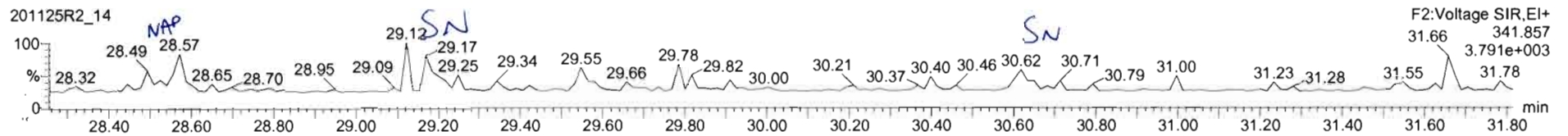
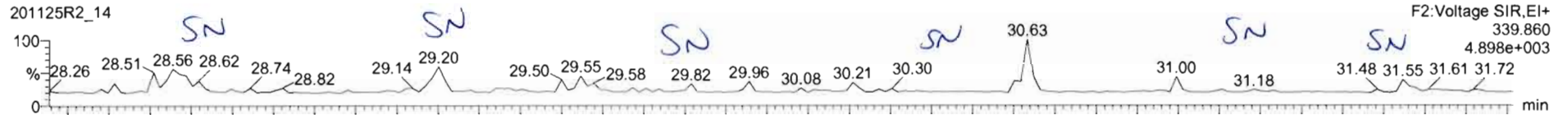


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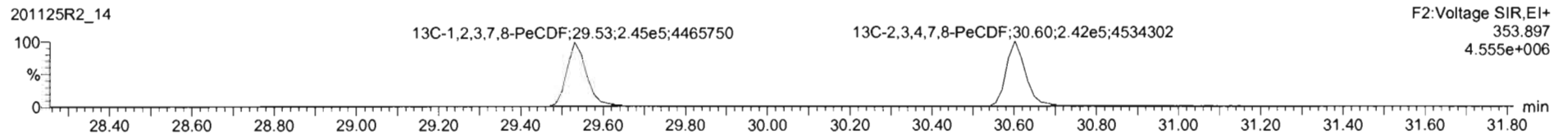
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Name: 201125R2_14, Date: 26-Nov-2020, Time: 07:15:21, ID: 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12.58, Description: USMPDI-027SC-A-02-03-201106

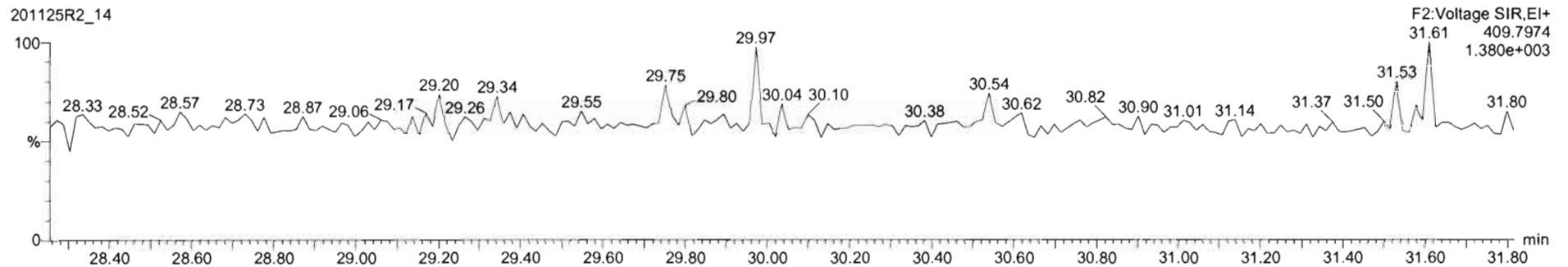
1,2,3,7,8-PeCDF



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



DPE2



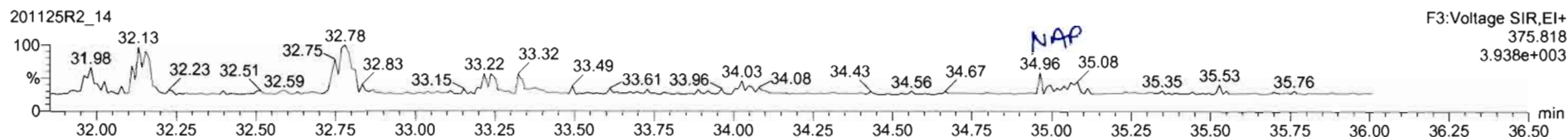
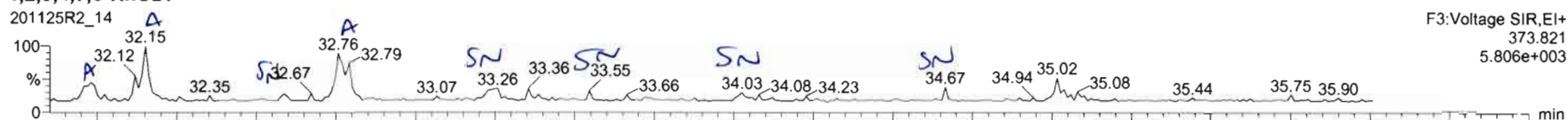
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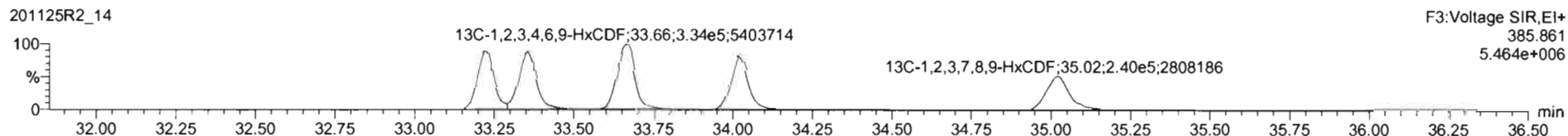
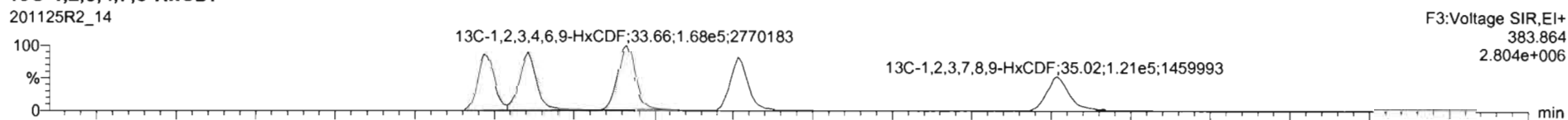
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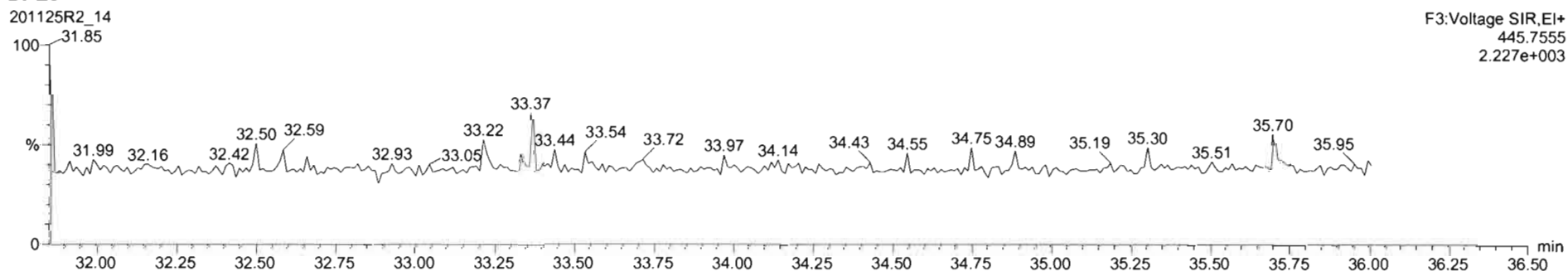
1,2,3,4,7,8-HxCDF



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



DPE3

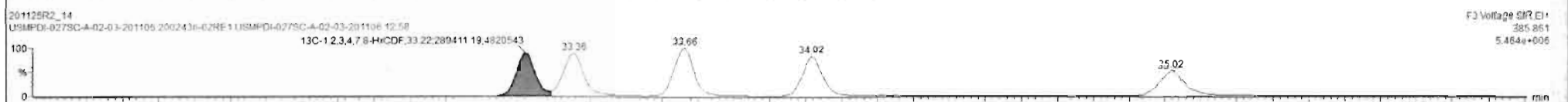
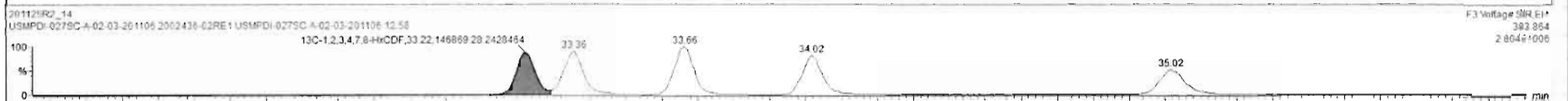
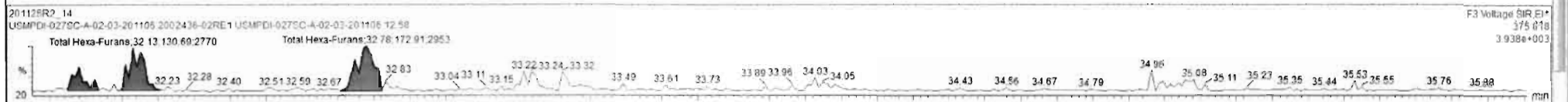
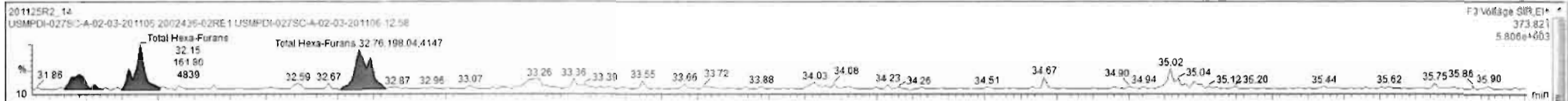


TargetLynx - 201125R2-14.qld - (Chromatogram)

File Edit View Display Processing Window Help

201125R2_14 - 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12:58 - USMPDI-027SC-A-02-03-201106

Name	Resp	RA	n/y	RfF	wtVal	RT	RRT	Conc	MGac	DL	EMPC
38	13C-1,2,3,4,8,9-HxCDF	5.02e5	0.50	NO	1.0000	10.378	23.86	1.000	193	100	0.838
39	Total Tetra-Dioxins				0.9501	10.378					0.0290
40	Total Penta-Dioxins				0.8555	10.378					0.0588
41	Total Hexa-Dioxins				0.9145	10.378		0.176			0.175
42	Total Hepta-Dioxins				0.8697	10.378		2.50			0.333
43	Total Tetra-Furans				0.8243	10.378					0.0175
44	1st Func. Penta-Furans				0.9626	10.378		0.000			0.0128
45	Total Penta-Furans				0.9626	10.378					0.0288
46	Total Hexa-Furans				0.9907	10.378		0.369			0.369
47	Total Hepta-Furans				0.9986	10.378		0.000			0.0509
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										

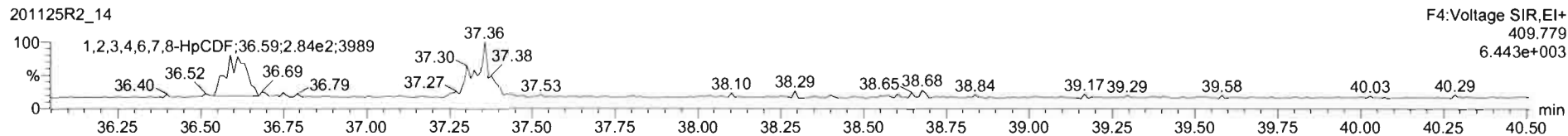
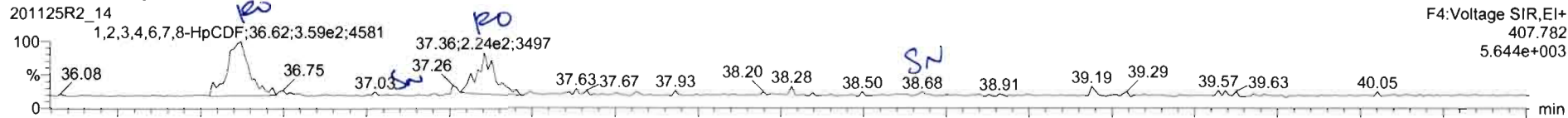


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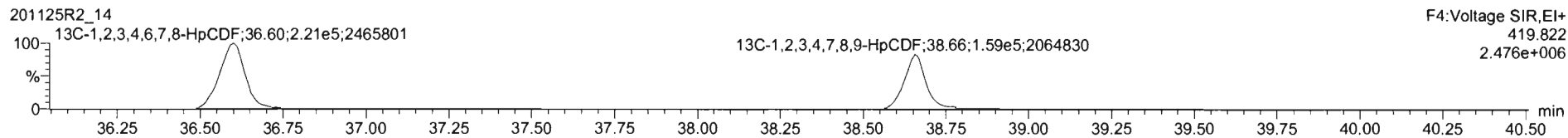
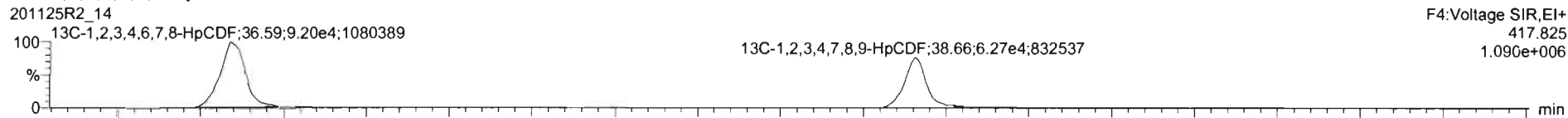
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Name: 201125R2_14, Date: 26-Nov-2020, Time: 07:15:21, ID: 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12.58, Description: USMPDI-027SC-A-02-03-201106

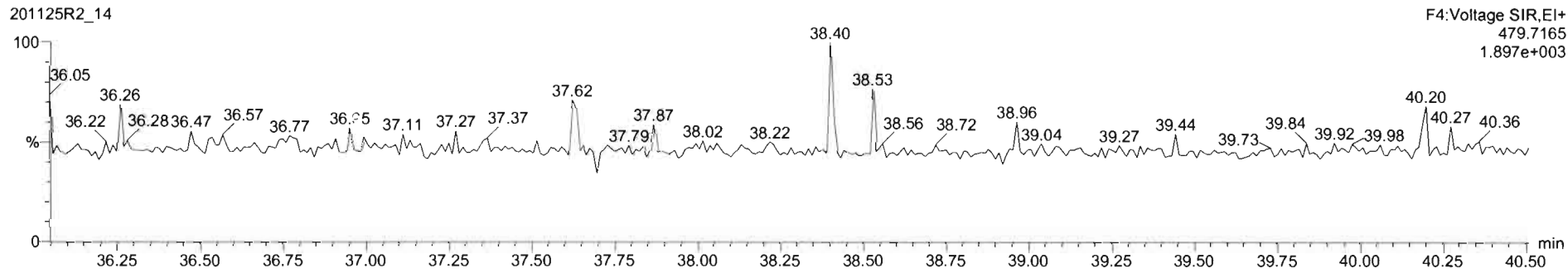
1,2,3,4,6,7,8-HpCDF



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



DPE4

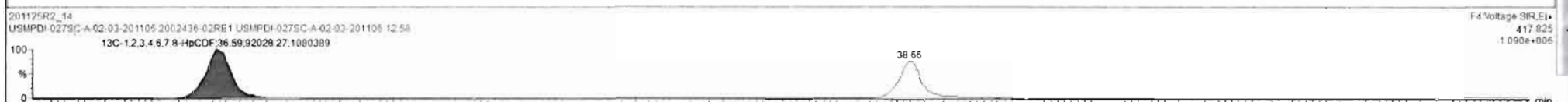
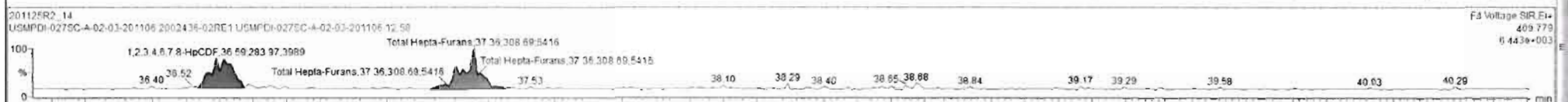
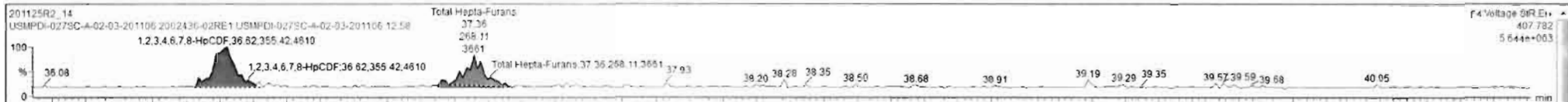


TargetLynx - 201125R2-14.qtd - Chromatogram

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201125R2_14 - 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12:58 - USMPDI-027SC-A-02-03-201106

Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	5.02e5	0.50	NO	1.0000	10.378	33.68	1.000	193	100	0.636
39	Total Tetra-Dioxins				0.9501	10.378					0.0202
40	Total Penta-Dioxins				0.8855	10.378					0.0508
41	Total Hexa-Dioxins				0.9145	10.378		0.176			0.0657
42	Total Hepta-Dioxins				0.8697	10.378		2.50			0.333
43	Total Tetra-Furans				0.8243	10.378					0.0175
44	1st Func. Penta-Furans				0.9626	10.378		0.000			0.0126
45	Total Penta-Furans				0.9626	10.378					0.0206
46	Total Hexa-Furans				0.9907	10.378		0.369			0.0255
47	Total Hepta-Furans				0.9986	10.378		0.000			0.0508
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										

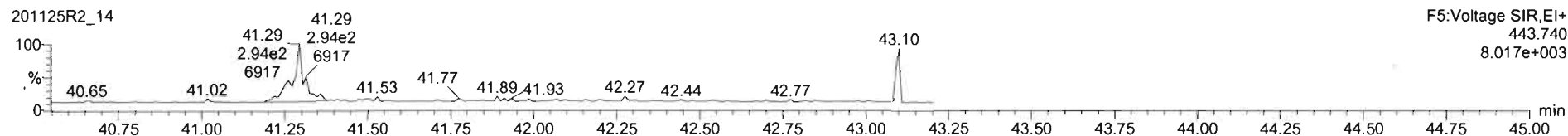
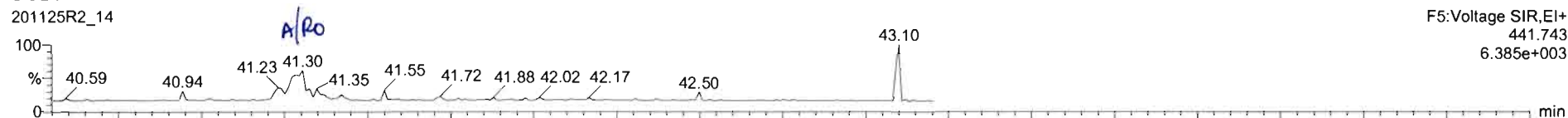


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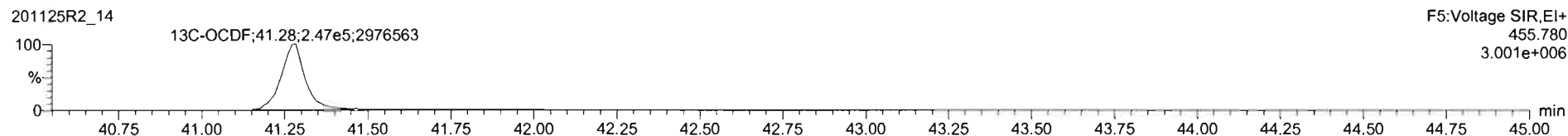
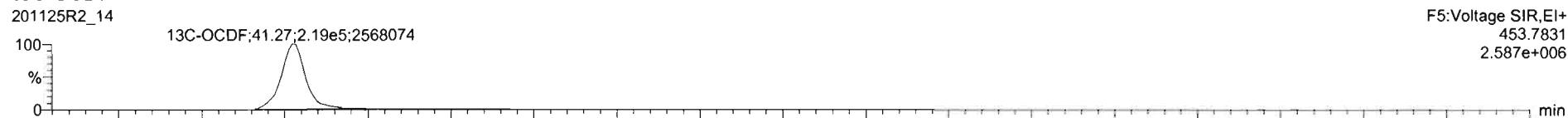
Last Altered: Thursday, November 26, 2020 07:59:52 Pacific Standard Time
Printed: Thursday, November 26, 2020 08:00:05 Pacific Standard Time

Name: 201125R2_14, Date: 26-Nov-2020, Time: 07:15:21, ID: 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12.58, Description: USMPDI-027SC-A-02-03-201106

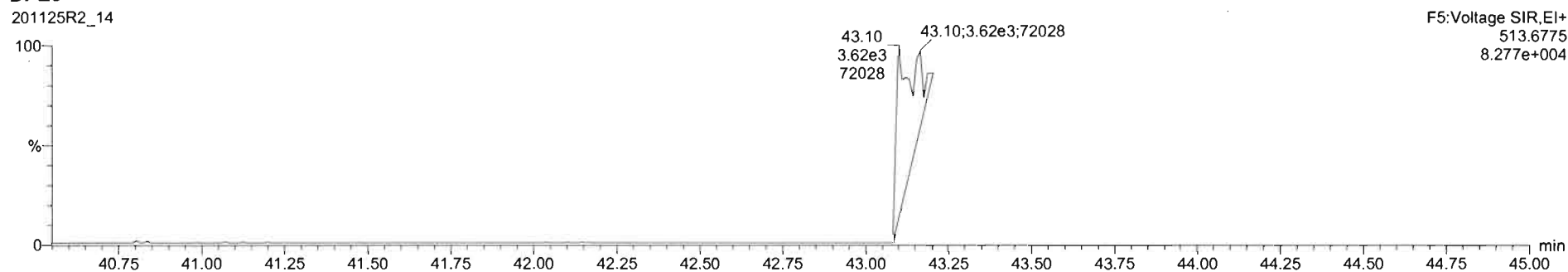
OCDF



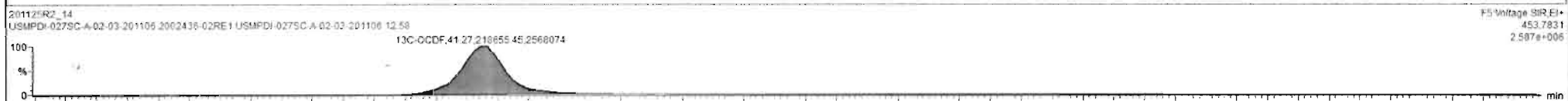
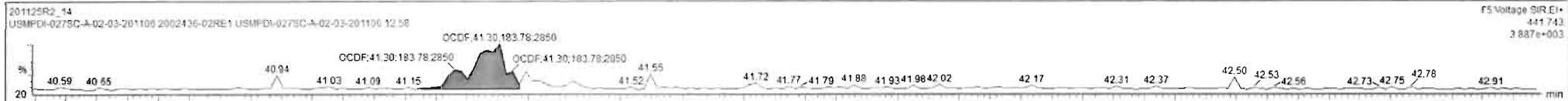
13C-OCDF



DPE5



Name	Resp	RA	n/y	RRF	wtVal	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD		NO	0.9501	10.378					0.0571	
2	1,2,3,7,8-PeCDD		NO	0.8855	10.378					0.101	
3	1,2,3,4,7,8-HxCDD		NO	1.0176	10.378					9.109	
4	1,2,3,6,7,8-HxCDD		NO	0.9145	10.378					0.111	
5	1,2,3,7,8,9-HxCDD		NO	0.9345	10.378					0.124	
6	1,2,3,4,6,7,8-HpCDD	1.11e3	1.42	YES	0.8697	10.378	38.06	1.001	0.980	0.333	0.908
7	OCDD	1.12e4	0.88	NO	0.8717	10.378	40.99	1.008	13.2	0.483	13.2
8	2,3,7,8-TCDF		NO	0.8243	10.378					0.0384	
9	1,2,3,7,8-PeCDF		NO	0.9626	10.378					0.0606	
10	2,3,4,7,8-PeCDF		NO	1.0684	10.378					0.0544	
11	1,2,3,4,7,8-HxCDF		NO	0.9535	10.378					0.0634	
12	1,2,3,6,7,8-HxCDF		NO	1.0080	10.378					0.0583	
13	2,3,4,6,7,8-HxCDF		NO	0.9997	10.378					0.0658	
14	1,2,3,7,8,9-HxCDF		NO	0.9596	10.378					0.1495	
15	1,2,3,4,6,7,8-HpCDF	6.43e2	1.26	YES	0.9066	10.378	36.82	1.001	0.297	0.106	0.268
16	1,2,3,4,7,8,9-HpCDF		NO	1.1238	10.378					0.120	
17	OCDF	4.54e2	0.88	YES	0.8682	10.378	41.30	1.001	0.422	0.236	0.372
18	13C-2,3,7,8-TCDD	5.25e5	0.84	NO	1.1089	10.378	26.07	1.030	209	108	0.200
19	13C-1,2,3,7,8-PeCDD	3.20e5	0.87	NO	0.8585	10.378	30.81	1.218	183	94.7	0.547
20	13C-1,2,3,4,7,8-HxCDD	2.92e5	1.32	NO	0.6997	10.378	34.12	1.014	180	83.2	0.592
21	13C-1,2,3,6,7,8-HxCDD	3.51e5	1.30	NO	0.8327	10.378	34.25	1.017	182	84.0	0.497

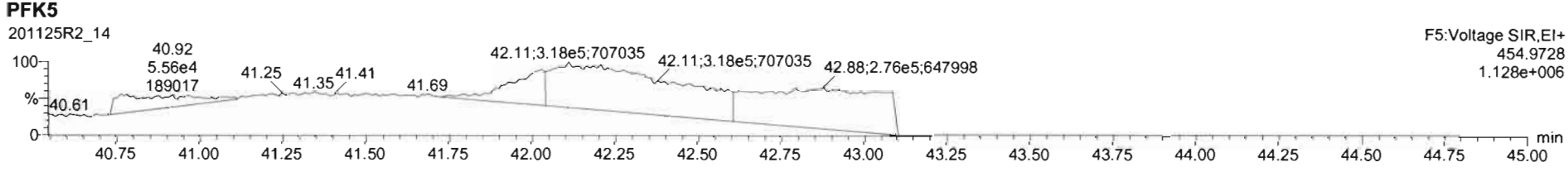
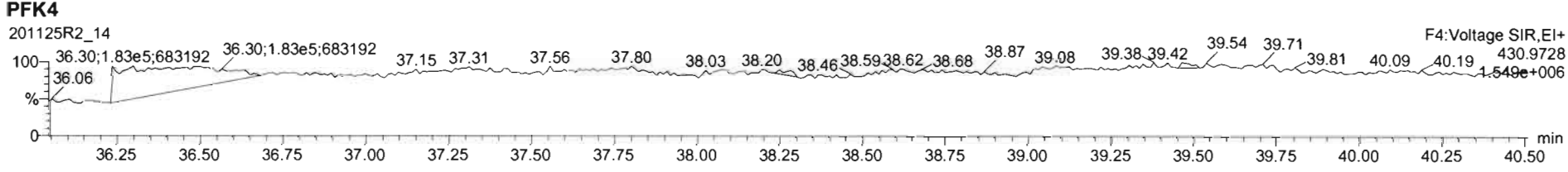
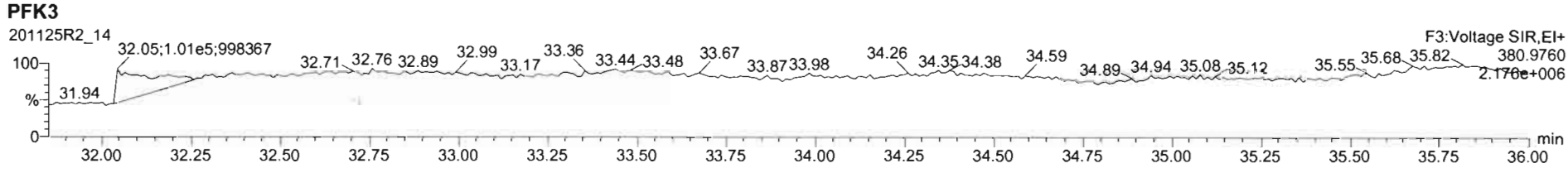
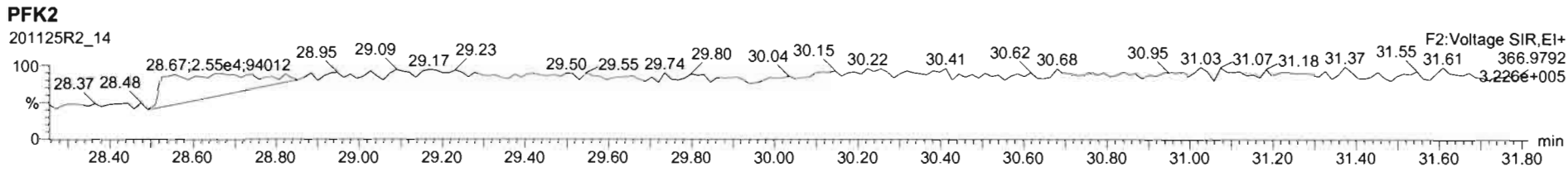
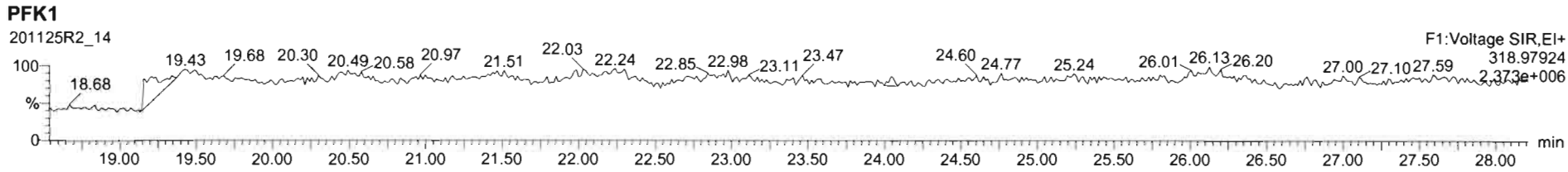


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Last Altered: Thursday, November 26, 2020 07:59:52 Pacific Standard Time

Printed: Thursday, November 26, 2020 08:00:05 Pacific Standard Time

Name: 201125R2_14, Date: 26-Nov-2020, Time: 07:15:21, ID: 2002436-02RE1 USMPDI-027SC-A-02-03-201106 12.58, Description: USMPDI-027SC-A-02-03-201106



Dataset: U:\VG12.PRO\Results\201124R1\201124R1-12.qld

Last Altered: Wednesday, November 25, 2020 12:41:52 Pacific Standard Time

Printed: Wednesday, November 25, 2020 12:43:29 Pacific Standard Time

GRB 11/25/2020

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: 201124R1_12, Date: 24-Nov-2020, Time: 19:38:09, ID: 2002436-03 USMPDI-027SC-A-03-04-201106 12.99, Description: USMPDI-027SC-A-03-04-201106

#	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	10.318	26.112		1.001				0.0480	
2	2 1,2,3,7,8-PeCDD			NO	0.885	10.318	30.835		1.000				0.110	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.318	34.146		1.000				0.0960	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.318	34.263		1.000				0.0973	
5	5 1,2,3,7,8,9-HxCDD			NO	0.934	10.318	34.540		1.000				0.110	
6	6 1,2,3,4,6,7,8-HpCDD	1.10e3	1.01	NO	0.870	10.318	38.020	38.04	1.000	1.001	0.73975		0.154	0.740
7	7 OCDD	1.98e4	0.86	NO	0.872	10.318	40.966	40.98	1.000	1.000	17.929		0.215	17.9
8	8 2,3,7,8-TCDF			NO	0.824	10.318	25.396		1.000				0.0248	
9	9 1,2,3,7,8-PeCDF			NO	0.963	10.318	29.573		1.000				0.0384	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.318	30.623		1.000				0.0319	
11	11 1,2,3,4,7,8-HxCDF			NO	0.953	10.318	33.230		1.000				0.0397	
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.318	33.369		1.000				0.0396	
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	10.318	34.032		1.000				0.0441	
14	14 1,2,3,7,8,9-HxCDF	6.60e1	1.39	NO	0.951	10.318	35.030	35.03	1.000	1.000	0.032587		0.0409	0.0326
15	15 1,2,3,4,6,7,8-HpCDF	2.90e2	1.09	NO	0.999	10.318	36.607	36.58	1.000	0.999	0.15283		0.0347	0.153
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	10.318	38.648		1.000				0.0718	
17	17 OCDF			NO	0.868	10.318	41.262		1.000				0.0800	
18	18 13C-2,3,7,8-TCDD	5.69e5	0.81	NO	1.11	10.318	26.073	26.08	1.030	1.030	173.96	89.7	0.248	
19	19 13C-1,2,3,7,8-PeCDD	4.42e5	0.63	NO	0.859	10.318	30.792	30.83	1.216	1.218	174.72	90.1	0.302	
20	20 13C-1,2,3,4,7,8-HxCDD	3.56e5	1.28	NO	0.700	10.318	34.146	34.14	1.014	1.014	173.36	89.4	0.405	
21	21 13C-1,2,3,6,7,8-HxCDD	4.21e5	1.24	NO	0.833	10.318	34.284	34.25	1.018	1.017	172.01	88.7	0.341	
22	22 13C-1,2,3,7,8,9-HxCDD	3.95e5	1.30	NO	0.762	10.318	34.527	34.53	1.025	1.025	176.21	90.9	0.372	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.30e5	1.05	NO	0.650	10.318	38.012	38.02	1.129	1.129	172.89	89.2	0.723	
24	24 13C-OCDD	4.90e5	0.89	NO	0.539	10.318	40.979	40.97	1.217	1.216	309.23	79.8	0.795	
25	25 13C-2,3,7,8-TCDF	8.14e5	0.77	NO	0.981	10.318	25.395	25.39	1.003	1.003	176.31	91.0	0.291	
26	26 13C-1,2,3,7,8-PeCDF	6.77e5	1.60	NO	0.792	10.318	29.524	29.56	1.166	1.168	181.77	93.8	0.620	
27	27 13C-2,3,4,7,8-PeCDF	6.82e5	1.64	NO	0.778	10.318	30.582	30.62	1.208	1.210	186.60	96.3	0.632	
28	28 13C-1,2,3,4,7,8-HxCDF	4.94e5	0.50	NO	0.954	10.318	33.237	33.23	0.987	0.987	176.26	90.9	0.576	
29	29 13C-1,2,3,6,7,8-HxCDF	5.02e5	0.51	NO	1.01	10.318	33.368	33.37	0.991	0.991	169.97	87.7	0.546	
30	30 13C-2,3,4,6,7,8-HxCDF	4.71e5	0.50	NO	0.921	10.318	34.038	34.03	1.011	1.010	174.08	89.8	0.597	

Dataset: U:\WG12.PRO\Results\201124R1\201124R1-12.qld

Last Altered: Wednesday, November 25, 2020 12:41:52 Pacific Standard Time

Printed: Wednesday, November 25, 2020 12:43:29 Pacific Standard Time

Name: 201124R1_12, Date: 24-Nov-2020, Time: 19:38:09, ID: 2002436-03 USMPDI-027SC-A-03-04-201106 12.99, Description: USMPDI-027SC-A-03-04-201106

#	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	4.13e5	0.52	NO	0.803	10.318	35.035	35.03	1.040	1.040	175.02	90.3	0.684	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.69e5	0.43	NO	0.735	10.318	36.605	36.60	1.087	1.087	170.69	88.1	0.584	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.81e5	0.41	NO	0.568	10.318	38.642	38.65	1.147	1.148	168.33	86.8	0.756	
34	34 13C-OCDF	5.52e5	0.87	NO	0.629	10.318	41.262	41.25	1.225	1.225	298.71	77.1	0.538	
35	35 37Cl-2,3,7,8-TCDD	2.48e5			1.09	10.318	26.073	26.10	1.030	1.031	77.188	99.6	0.0681	
36	36 13C-1,2,3,4-TCDD	5.72e5	0.80	NO	1.00	10.318	25.370	25.31	1.000	1.000	193.84	100	0.275	
37	37 13C-1,2,3,4-TCDF	9.11e5	0.79	NO	1.00	10.318	23.870	23.81	1.000	1.000	193.84	100	0.285	
38	38 13C-1,2,3,4,6,9-HxCDF	5.70e5	0.51	NO	1.00	10.318	33.710	33.68	1.000	1.000	193.84	100	0.550	
39	39 Total Tetra-Dioxins				0.950	10.318	24.620		0.000		0.15703		0.0286	0.157
40	40 Total Penta-Dioxins				0.885	10.318	29.960		0.000				0.0489	
41	41 Total Hexa-Dioxins				0.915	10.318	33.635		0.000		0.58898		0.105	0.589
42	42 Total Hepta-Dioxins				0.870	10.318	37.640		0.000		1.8410		0.154	1.84
43	43 Total Tetra-Furans				0.824	10.318	23.610		0.000				0.0106	
44	44 1st Func. Penta-Furans				0.963	10.318	26.930		0.000				0.00966	
45	45 Total Penta-Furans				0.963	10.318	29.275		0.000				0.0172	
46	46 Total Hexa-Furans				0.991	10.318	33.555		0.000		0.14022		0.0285	0.140
47	47 Total Hepta-Furans				0.999	10.318	37.835		0.000		0.15283		0.0362	0.153

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201124R1\201124R1-12.qld

Last Altered: Wednesday, November 25, 2020 12:41:52 Pacific Standard Time

Printed: Wednesday, November 25, 2020 12:43:29 Pacific Standard Time

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Name: 201124R1_12, Date: 24-Nov-2020, Time: 19:38:09, ID: 2002436-03 USMPDI-027SC-A-03-04-201106 12.99, Description: USMPDI-027SC-A-03-04-201106

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.03	3.132e3	4.351e3	1.939e2	2.441e2	0.79	NO	4.380e2	0.15703	0.15703	0.0286

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	32.52	8.725e3	8.816e3	3.686e2	3.211e2	1.15	NO	6.898e2	0.37425	0.37425	0.105
2	Total Hexa-Dioxins	33.38	3.510e3	2.944e3	2.258e2	1.699e2	1.33	NO	3.957e2	0.21472	0.21472	0.105

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.02	9.718e3	1.083e4	8.371e2	7.936e2	1.05	NO	1.631e3	1.1012	1.1012	0.154
2	1,2,3,4,6,7,8-HpCDD	38.04	8.357e3	8.811e3	5.498e2	5.456e2	1.01	NO	1.095e3	0.73975	0.73975	0.154

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\201124R1\201124R1-12.qld

Last Altered: Wednesday, November 25, 2020 12:41:52 Pacific Standard Time

Printed: Wednesday, November 25, 2020 12:43:29 Pacific Standard Time

Name: 201124R1_12, Date: 24-Nov-2020, Time: 19:38:09, ID: 2002436-03 USMPDI-027SC-A-03-04-201106 12.99, Description: USMPDI-027SC-A-03-04-201106

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	32.15	2.192e3	1.398e3	6.717e1	5.156e1	1.30	NO	1.187e2	0.049406	0.049406	0.0285
2	Total Hexa-Furans	32.82	1.876e3	1.342e3	7.682e1	6.312e1	1.22	NO	1.399e2	0.058228	0.058228	0.0285
3	1,2,3,7,8,9-HxCDF	35.03	1.198e3	9.860e2	3.842e1	2.762e1	1.39	NO	6.603e1	0.032587	0.032587	0.0409

Hepta-Furans

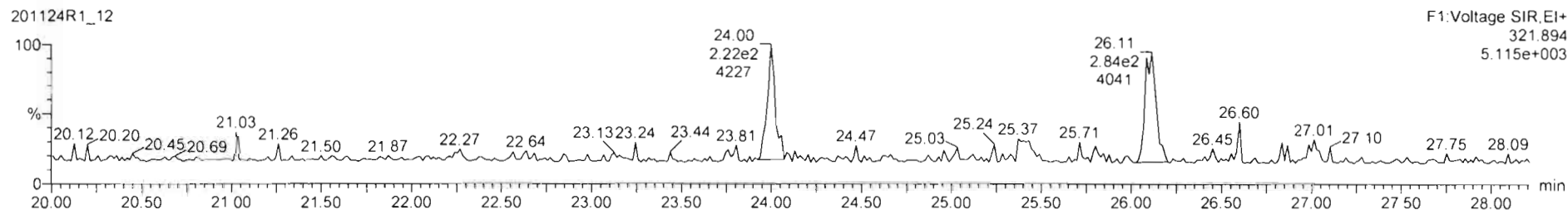
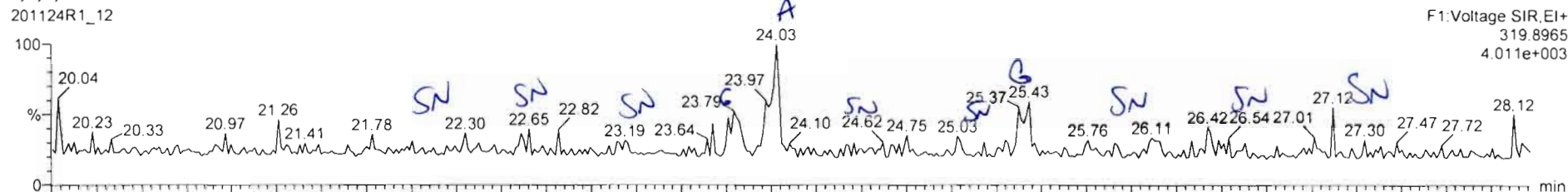
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.58	2.191e3	2.171e3	1.512e2	1.393e2	1.09	NO	2.904e2	0.15283	0.15283	0.0347

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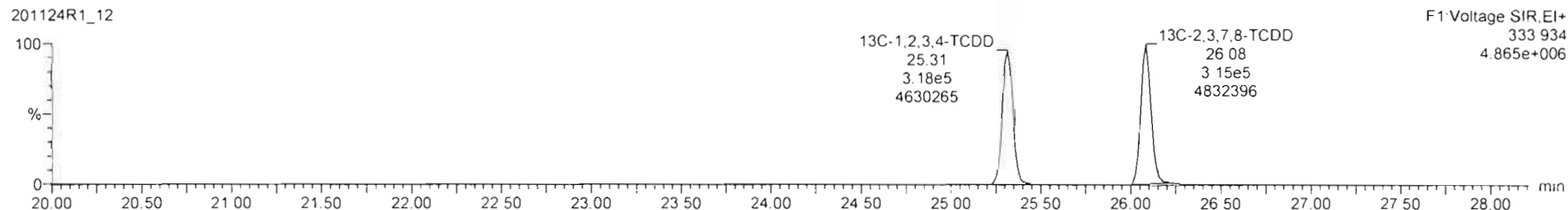
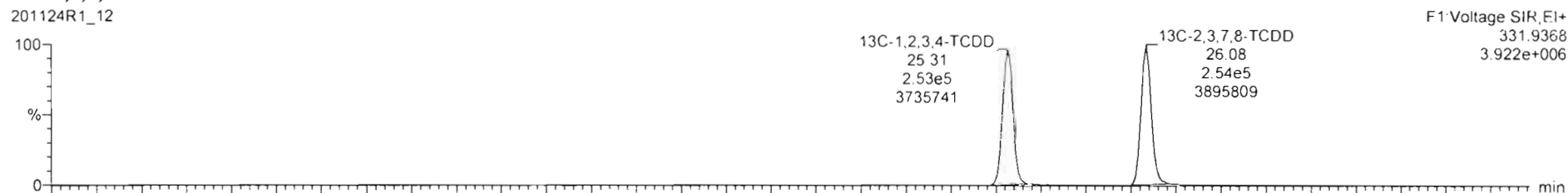
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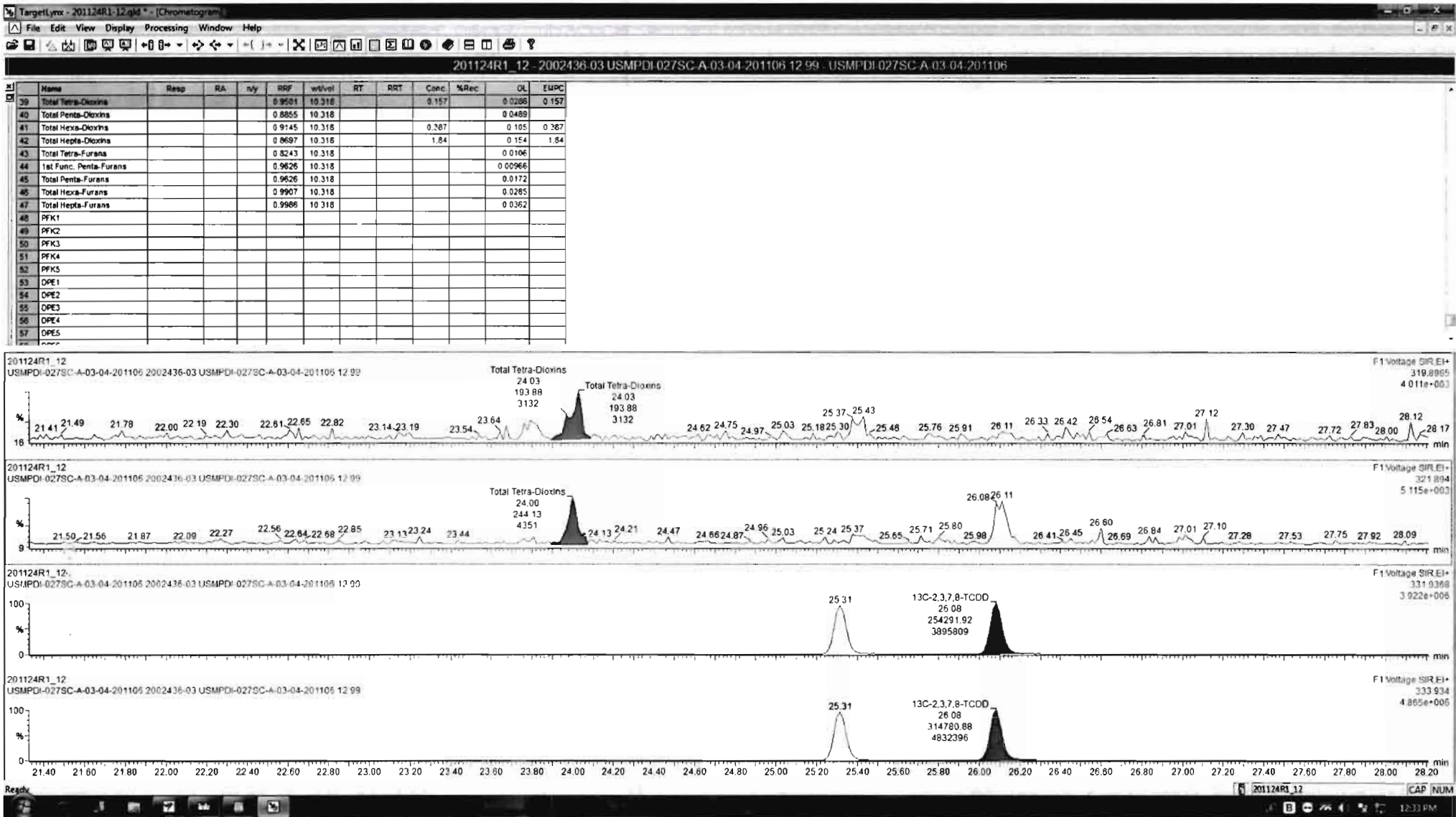
Name: 201124R1_12, Date: 24-Nov-2020, Time: 19:38:09, ID: 2002436-03 USMPDI-027SC-A-03-04-201106 12.99, Description: USMPDI-027SC-A-03-04-201106

2,3,7,8-TCDD



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





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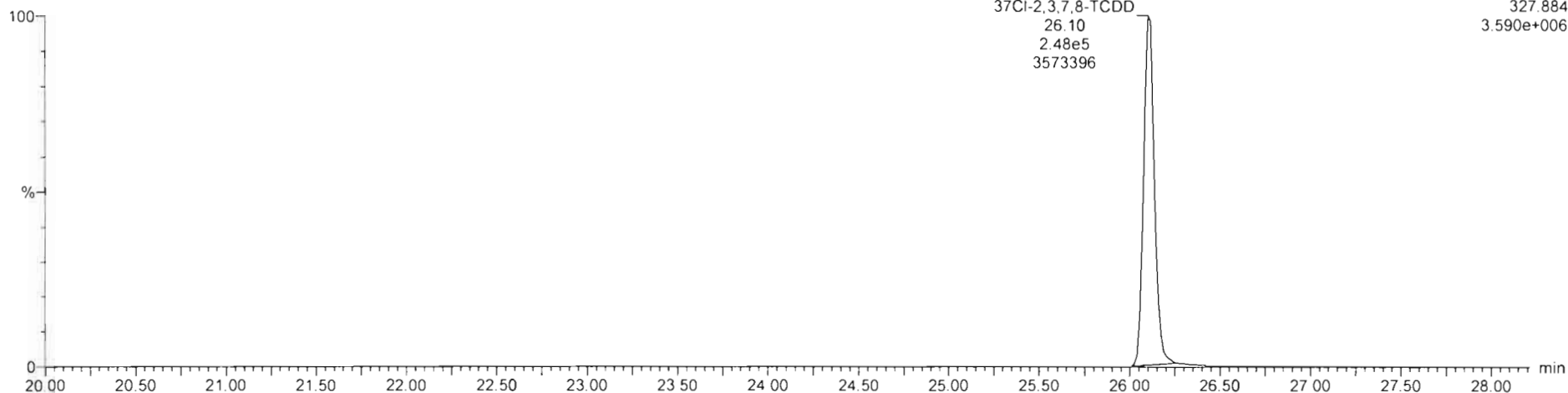
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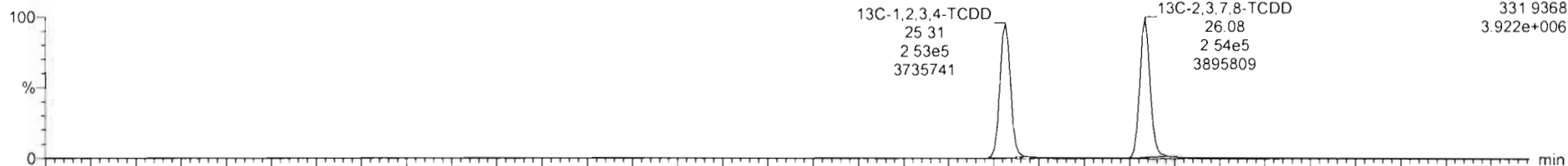
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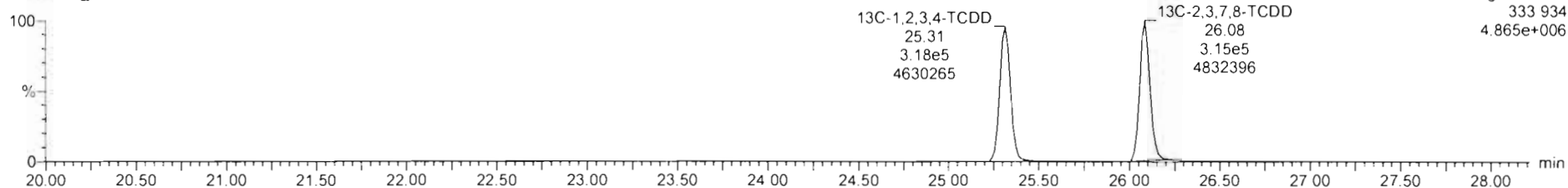


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201124R1_12

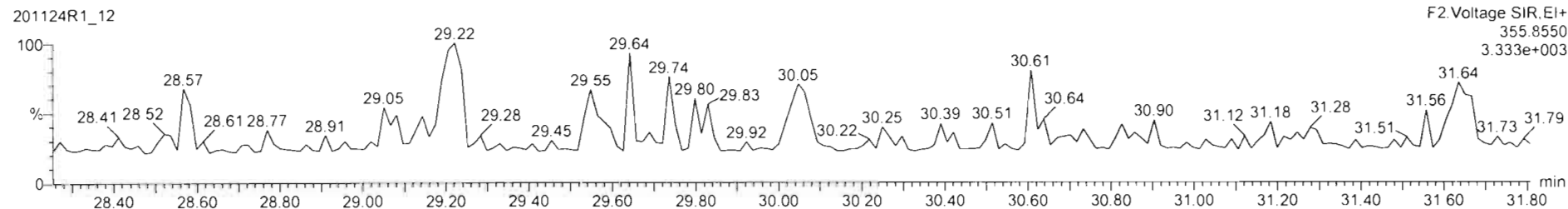
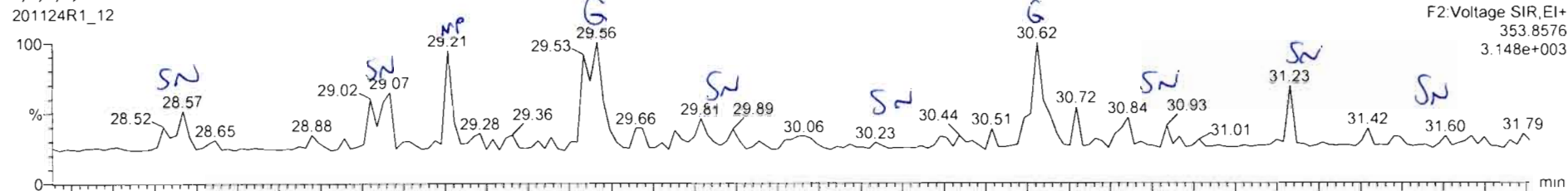


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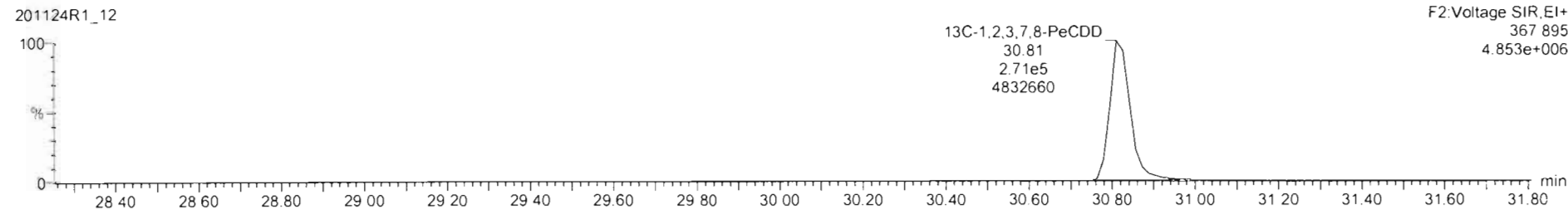
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1,2,3,7,8-PeCDD



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



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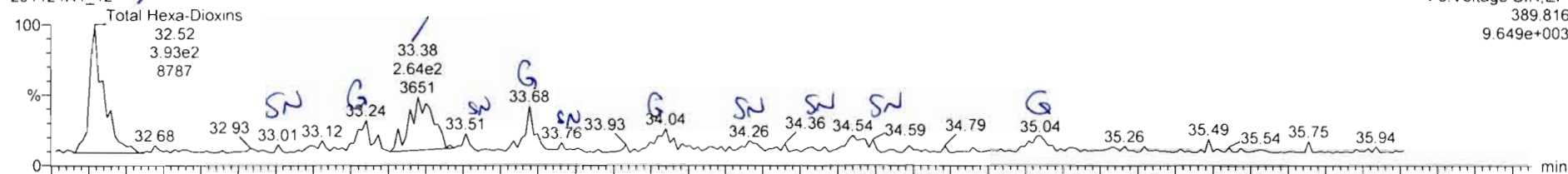
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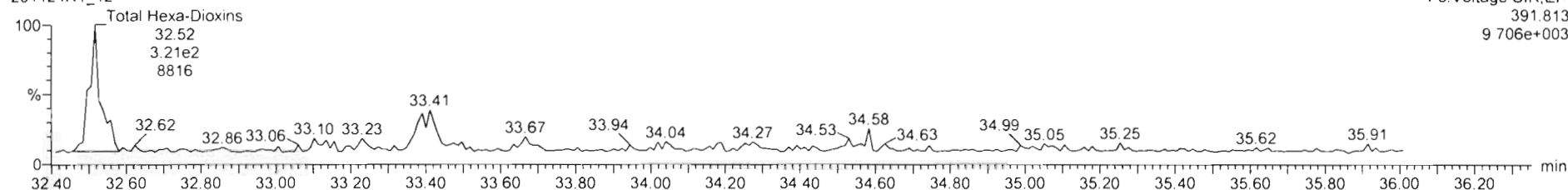
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1,2,3,4,7,8-HxCDD

201124R1_12

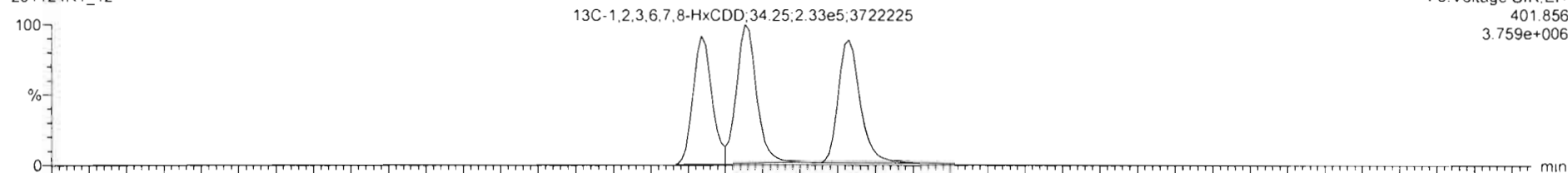


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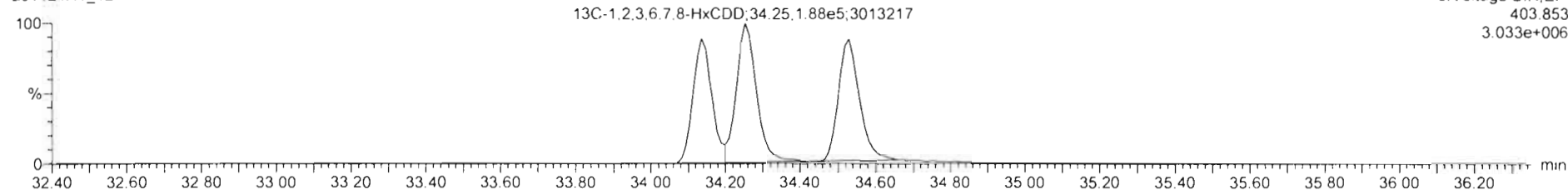


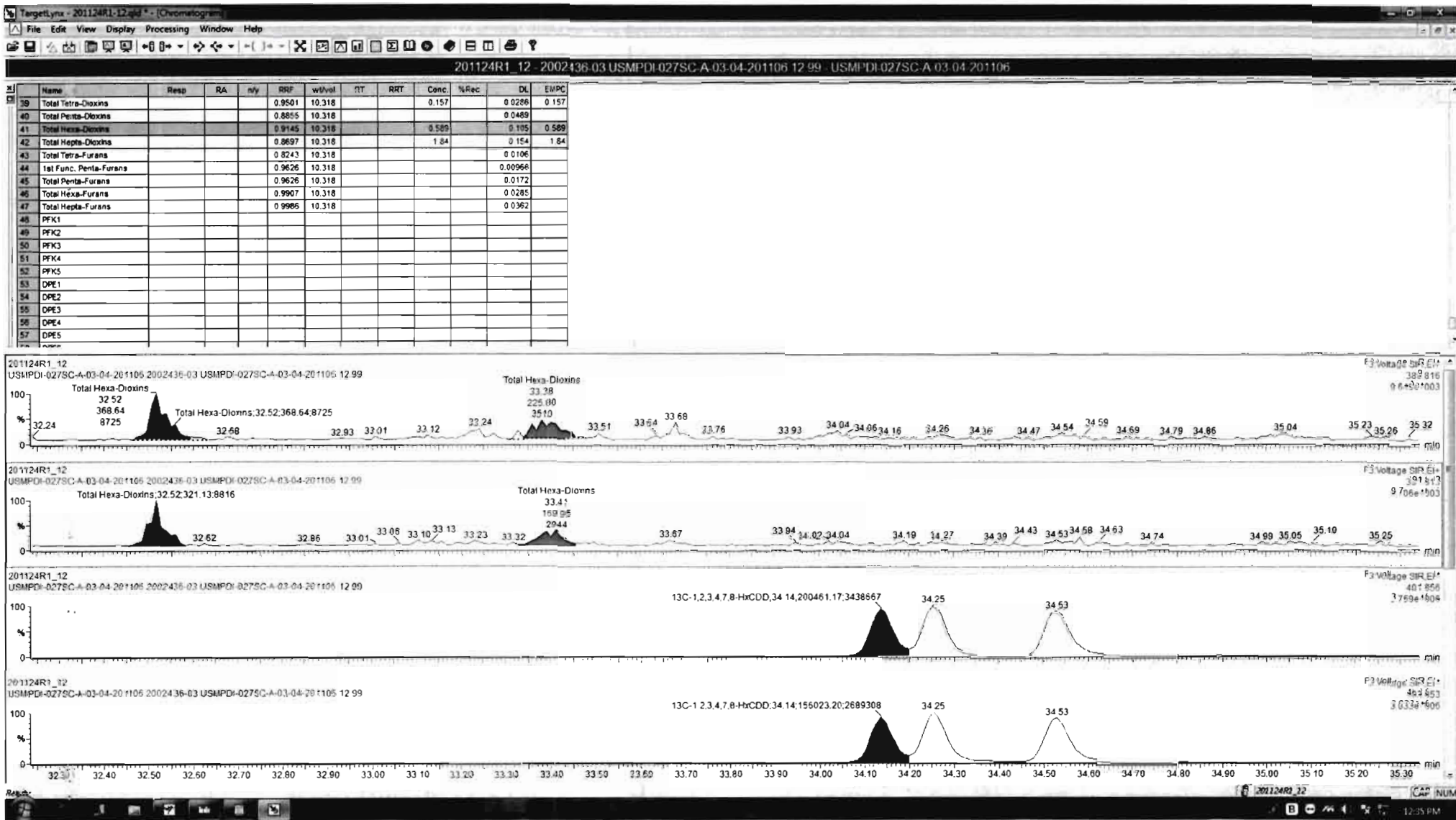
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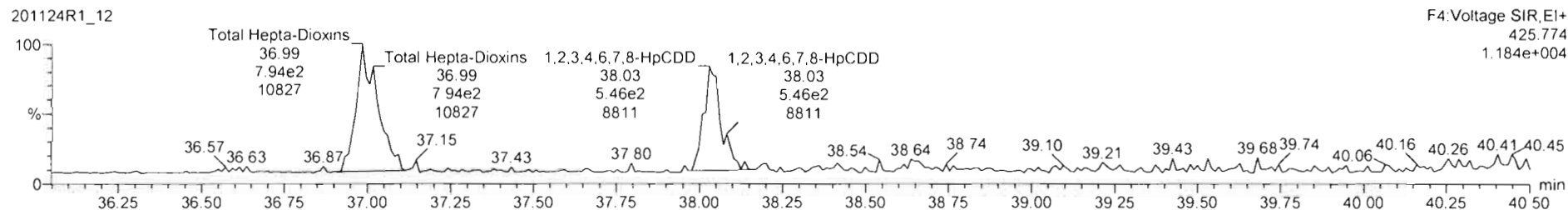
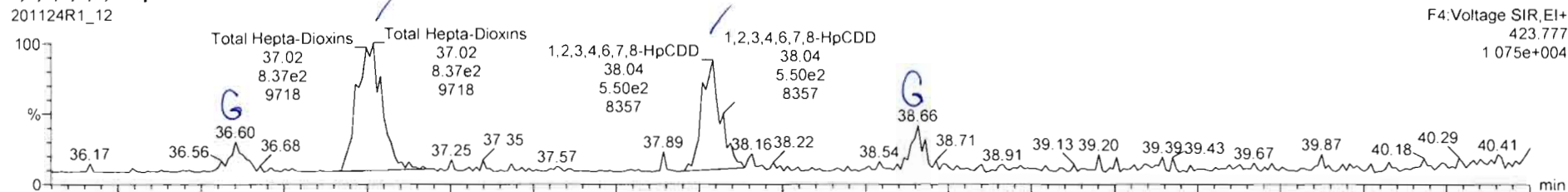
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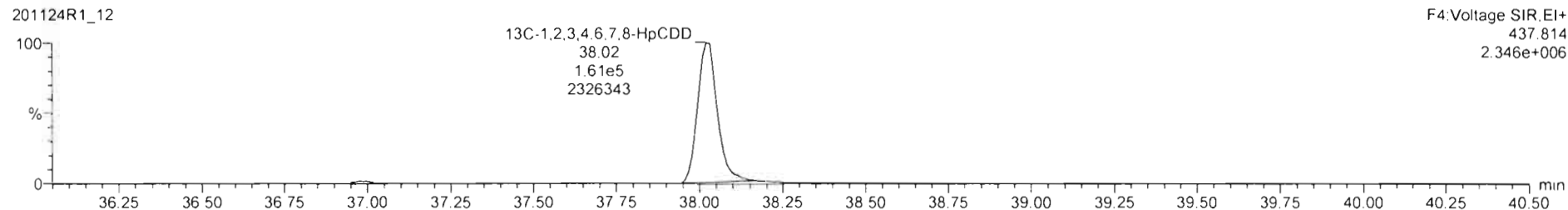
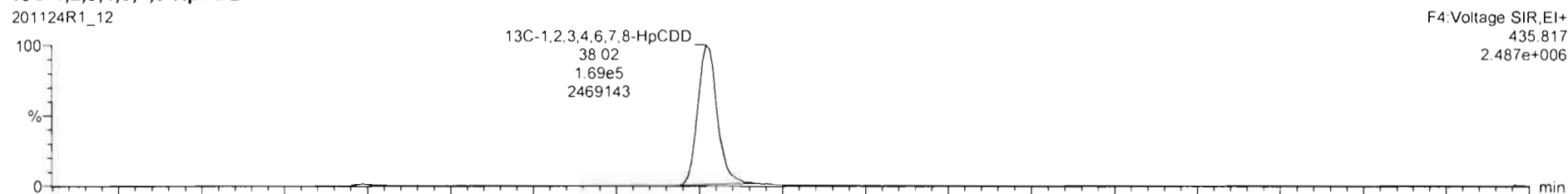
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1,2,3,4,6,7,8-HpCDD



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

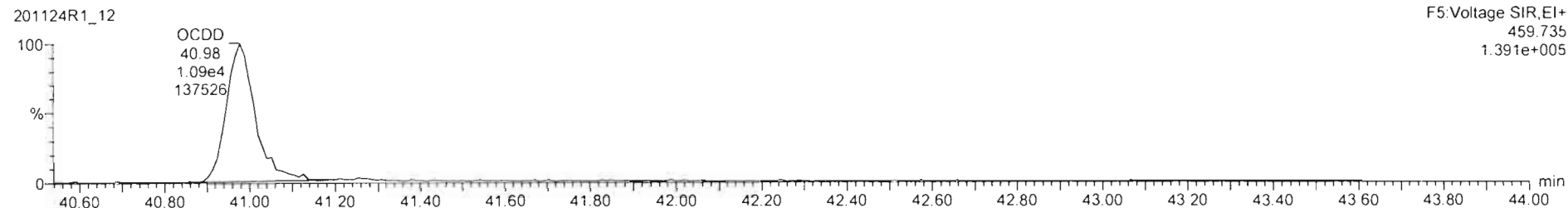
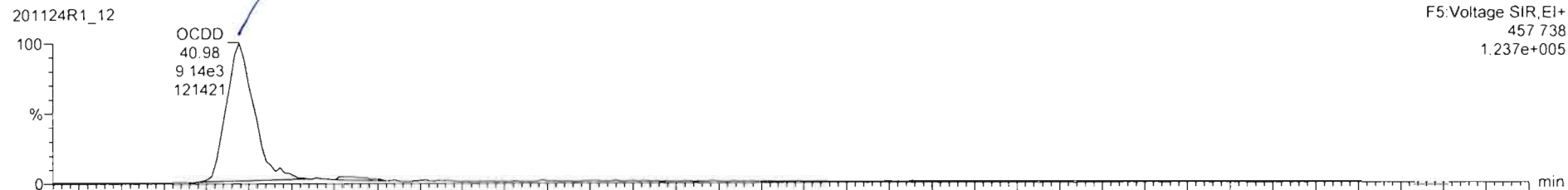


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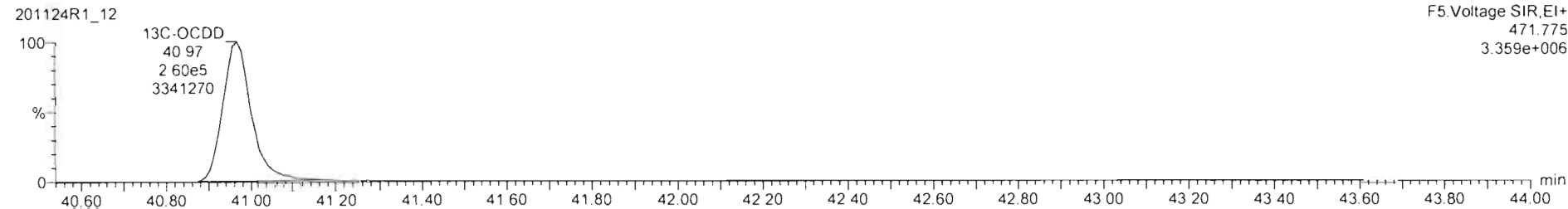
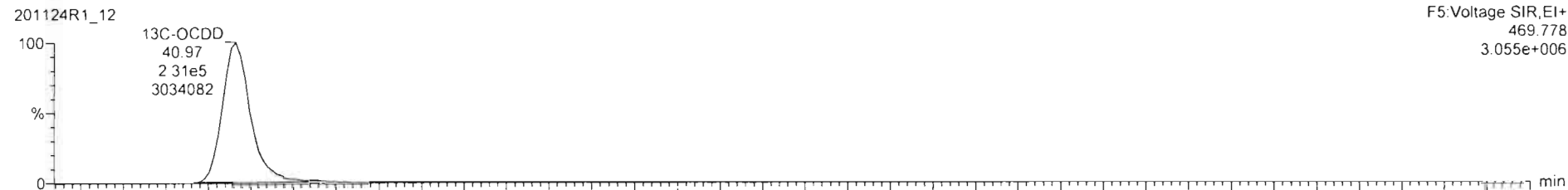
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OCDD



13C-OCDD

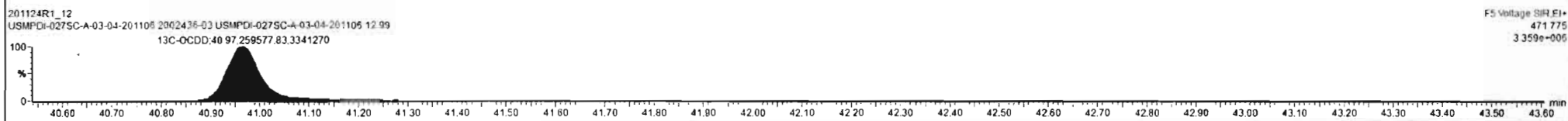
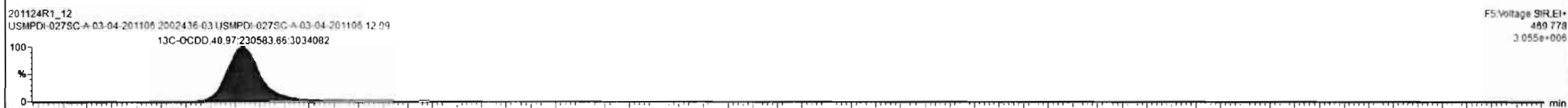
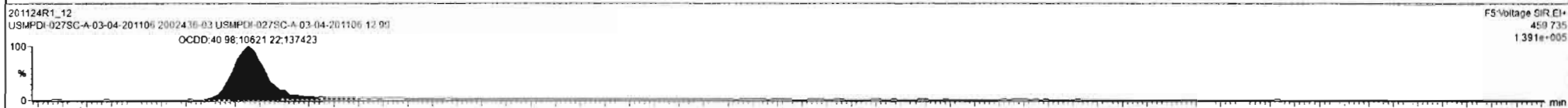


TargetLynx - 201124R1_12.qld * (Chromatogram)

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201124R1_12 - 2002436-03 USMPDI-027SC-A-03-04-201106 12:99 - USMPDI-027SC-A-03-04-201106

#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.9501	10.318					0.0480	
2	1,2,3,7,8-PeCDD			NO	0.8655	10.318					0.110	
3	1,2,3,4,7,8-HxCDD			NO	1.0176	10.318					0.0960	
4	1,2,3,6,7,8-HxCDD			NO	0.9145	10.318					0.0973	
5	1,2,3,7,8,9-HxCDD			NO	0.9345	10.318					0.110	
6	1,2,3,4,6,7,8-HpCDD	1.10e3	1.01	NO	0.8697	10.318	38.04	1.001	0.740		0.154	0.740
7	OCDD	1.99e4	0.86	NO	0.8717	10.318	40.98	1.000	17.9		0.215	17.9
8	2,3,7,8-TCDF			NO	0.8243	10.318					0.0248	
9	1,2,3,7,8-PeCDF			NO	0.9626	10.318					0.0384	
10	2,3,4,7,8-PeCDF			NO	1.0684	10.318					0.0319	
11	1,2,3,4,7,8-HxCDF			NO	0.9535	10.318					0.0297	
12	1,2,3,6,7,8-HxCDF			NO	1.0080	10.318					0.0396	
13	2,3,4,6,7,8-HxCDF			NO	0.9907	10.318					0.0441	
14	1,2,3,7,8,9-HxCDF			NO	0.9506	10.318					0.0656	
15	1,2,3,4,6,7,8-HpCDF			NO	0.9986	10.318					0.0735	
16	1,2,3,4,7,8,9-HpCDF			NO	1.1238	10.318					0.0718	
17	OCDF			NO	0.8682	10.318					0.0812	
18	13C-2,3,7,8-TCDD	5.69e5	0.81	NO	1.1089	10.318	26.08	1.030	174	89.7	0.248	
19	13C-1,2,3,7,8-PeCDD	4.42e5	0.83	NO	0.8585	10.318	30.83	1.218	175	90.1	0.302	



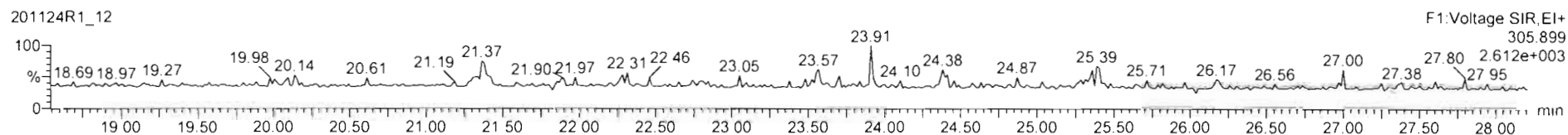
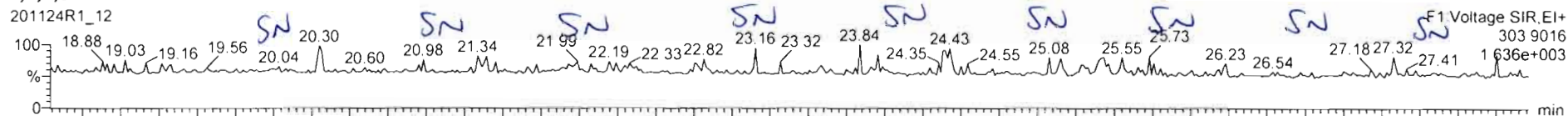
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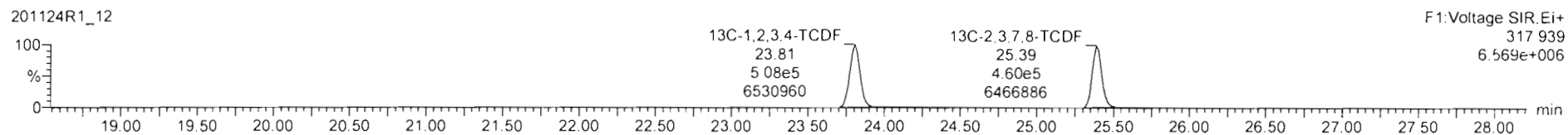
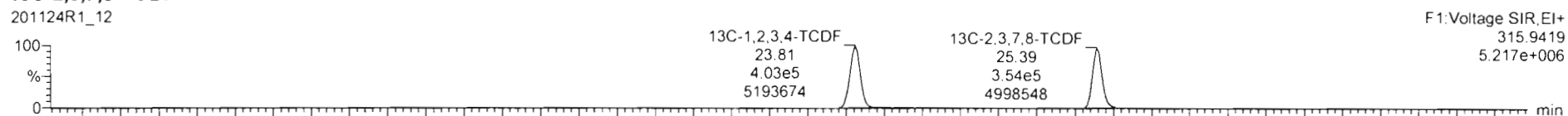
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Name: 201124R1_12, Date: 24-Nov-2020, Time: 19:38:09, ID: 2002436-03 USMPDI-027SC-A-03-04-201106 12.99, Description: USMPDI-027SC-A-03-04-201106

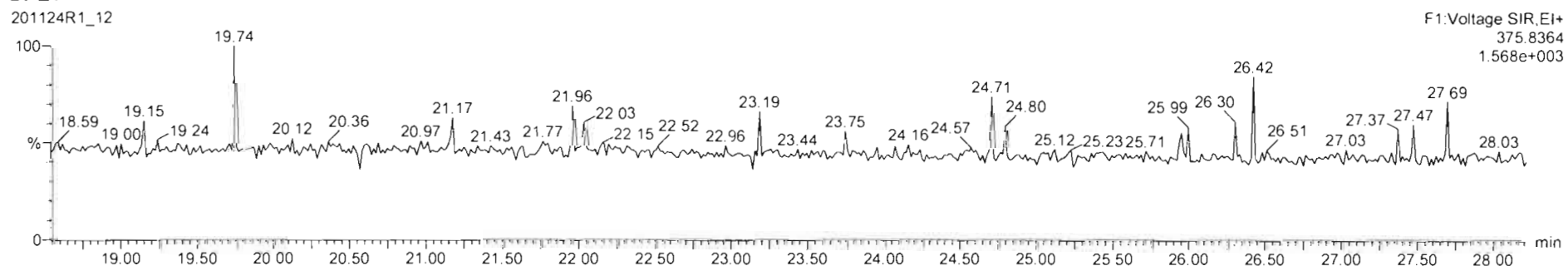
2,3,7,8-TCDF



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



DPE1



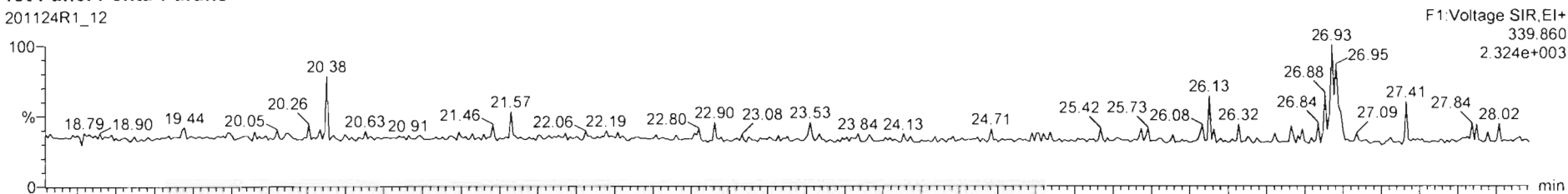
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Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

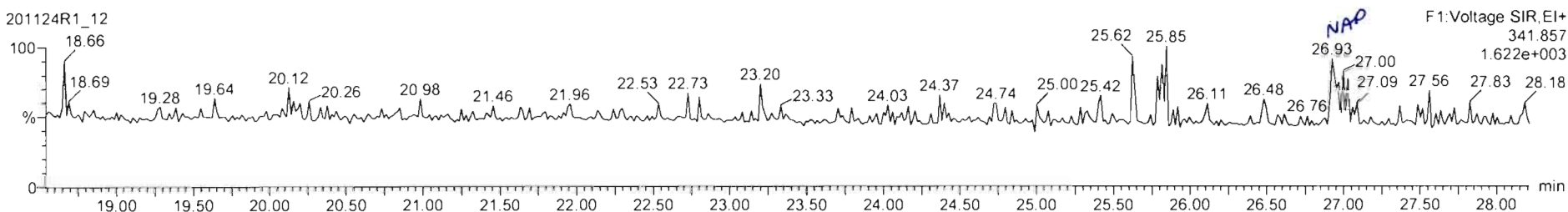
Name: 201124R1_12, Date: 24-Nov-2020, Time: 19:38:09, ID: 2002436-03 USMPDI-027SC-A-03-04-201106 12.99, Description: USMPDI-027SC-A-03-04-201106

1st Func. Penta-Furans

201124R1_12

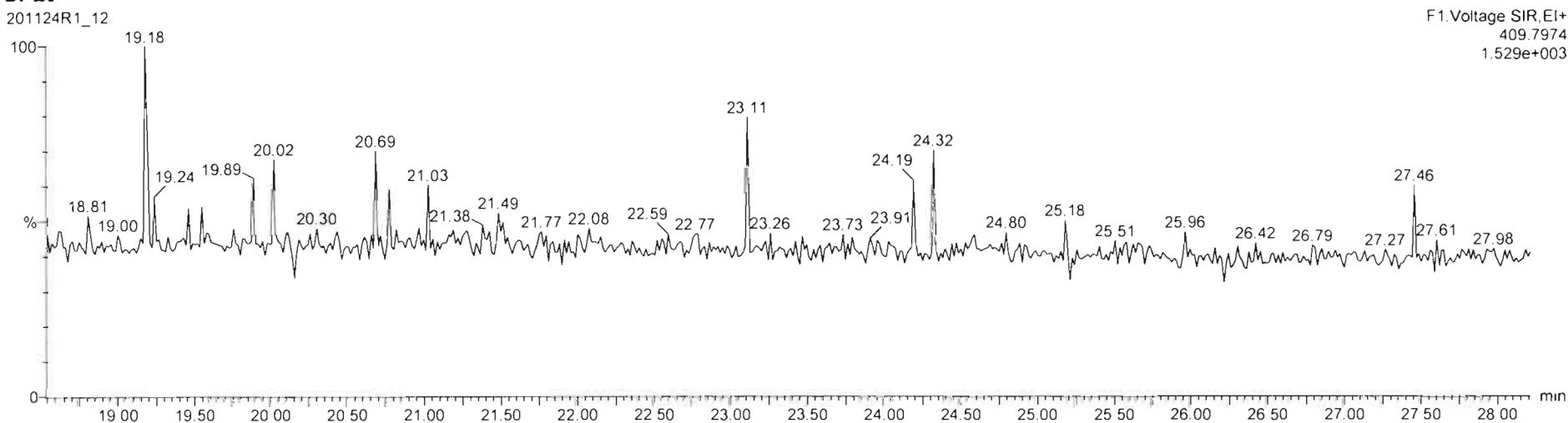


201124R1_12



DPE6

201124R1_12

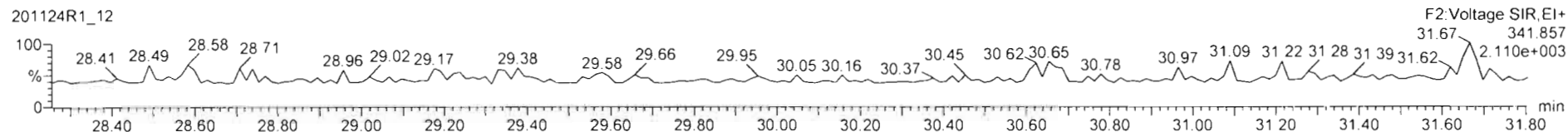
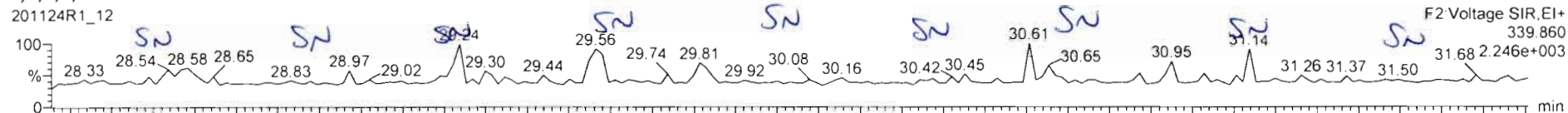


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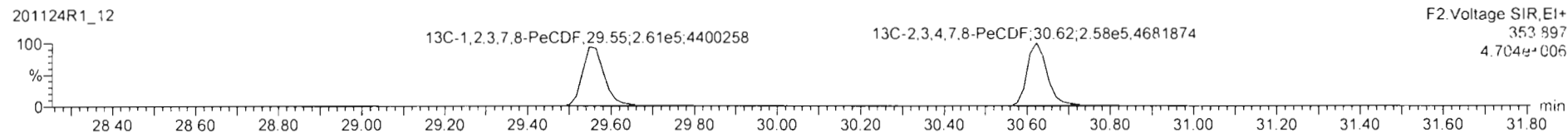
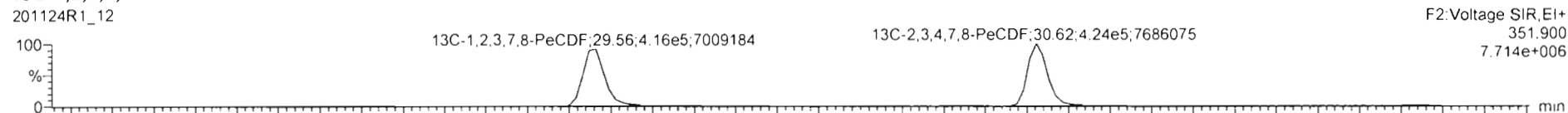
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Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

Name: 201124R1_12, Date: 24-Nov-2020, Time: 19:38:09, ID: 2002436-03 USMPDI-027SC-A-03-04-201106 12.99, Description: USMPDI-027SC-A-03-04-201106

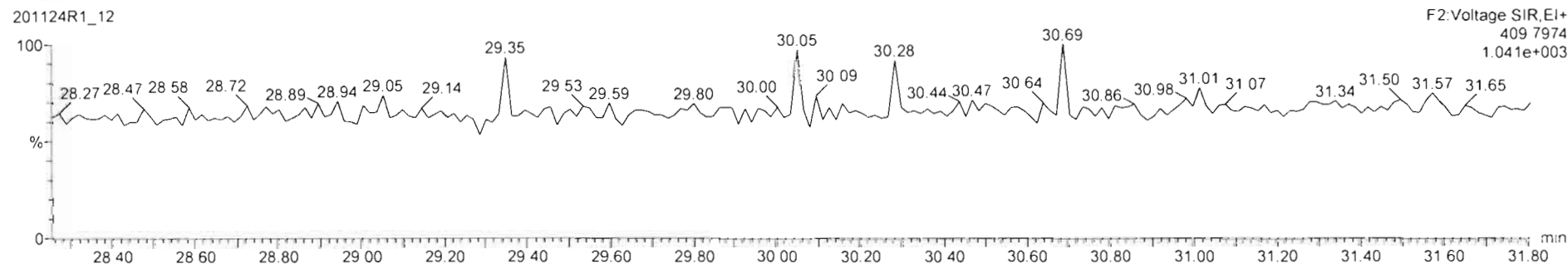
1,2,3,7,8-PeCDF



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



DPE2

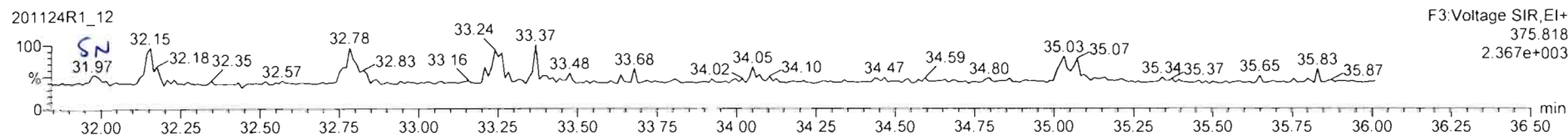
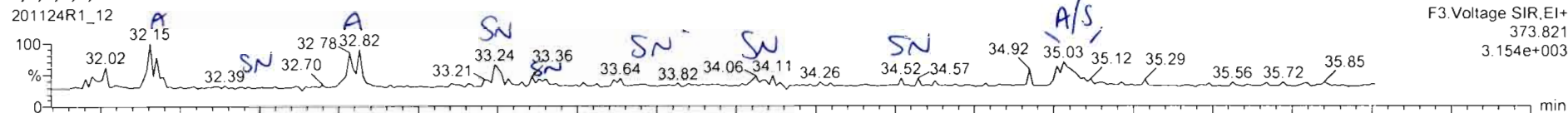


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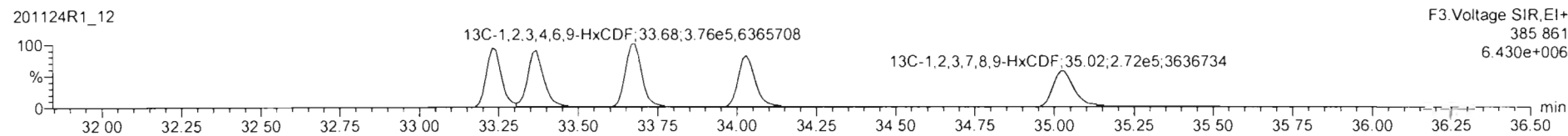
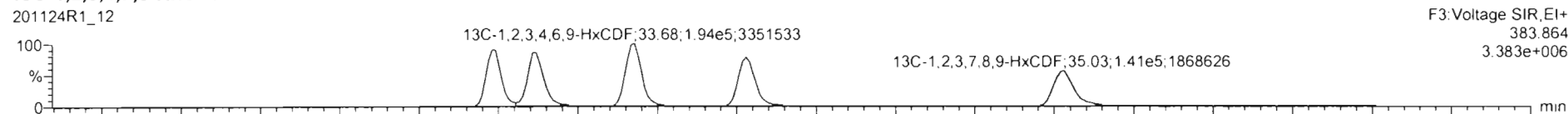
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Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

Name: 201124R1_12, Date: 24-Nov-2020, Time: 19:38:09, ID: 2002436-03 USMPDI-027SC-A-03-04-201106 12.99, Description: USMPDI-027SC-A-03-04-201106

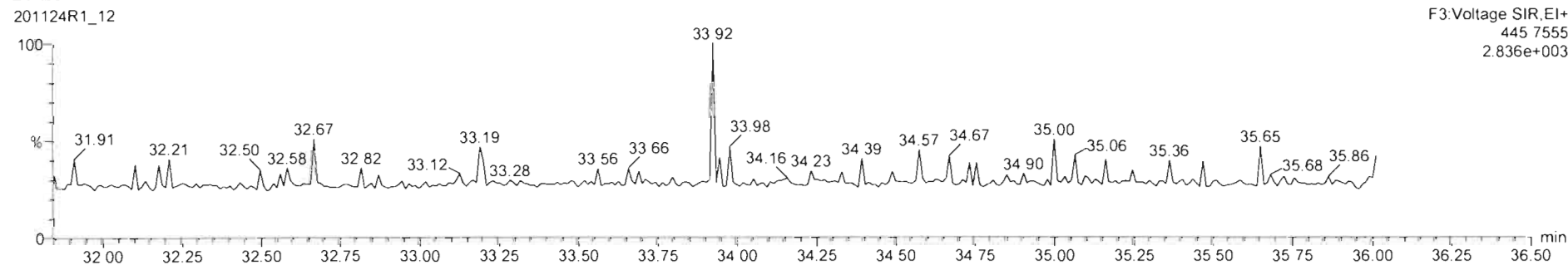
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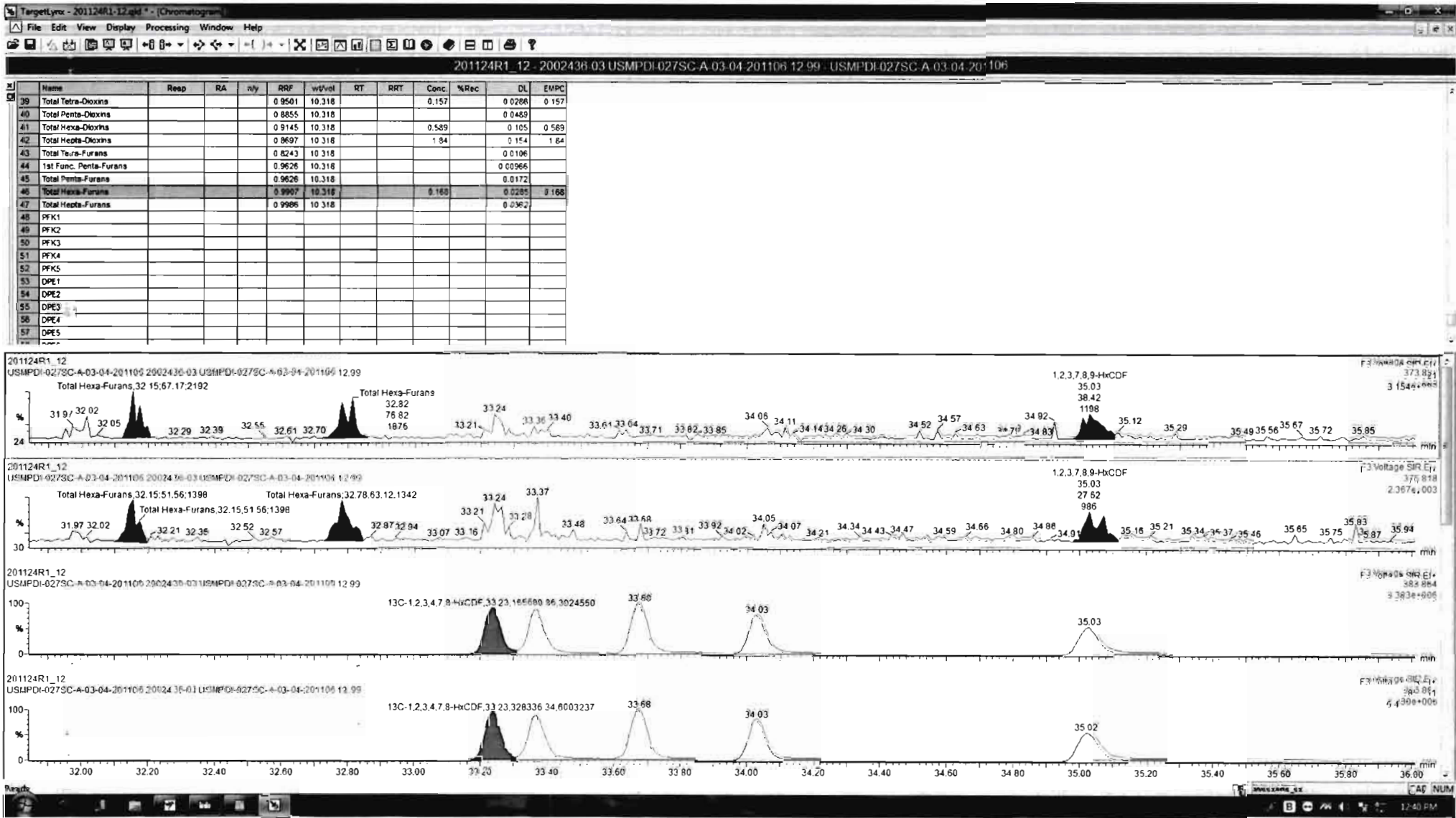


13C-1,2,3,4,7,8-HxCDF



DPE3





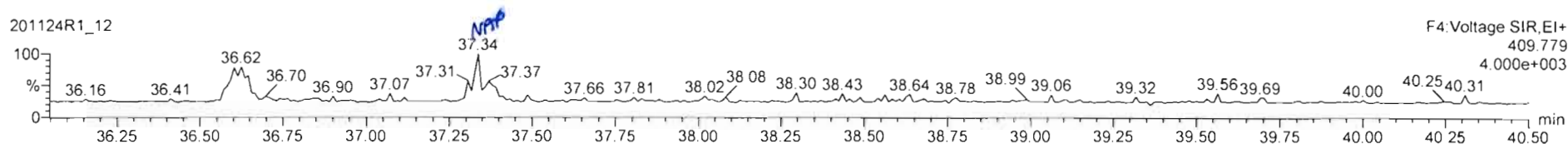
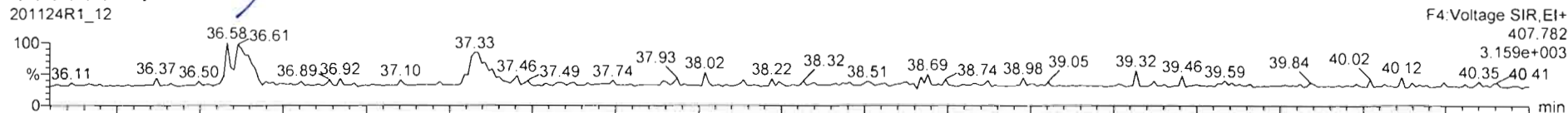
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Last Altered: Wednesday, November 25, 2020 07:04:08 Pacific Standard Time

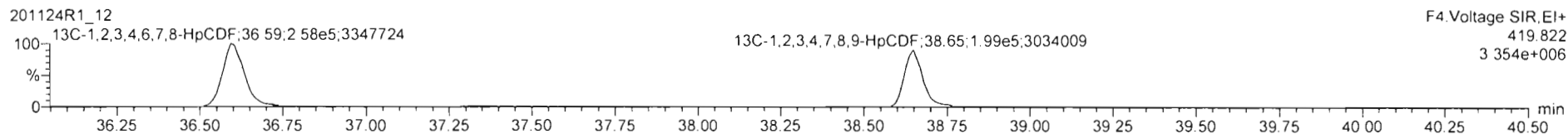
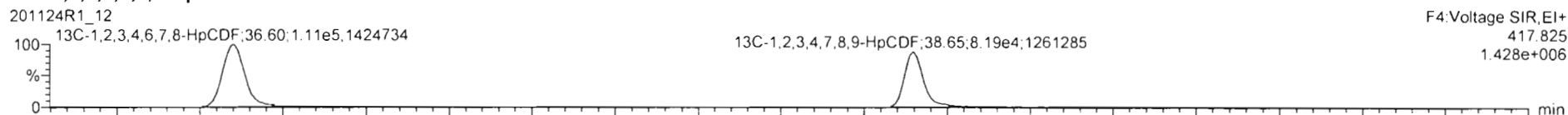
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Name: 201124R1_12, Date: 24-Nov-2020, Time: 19:38:09, ID: 2002436-03 USMPDI-027SC-A-03-04-201106 12.99, Description: USMPDI-027SC-A-03-04-201106

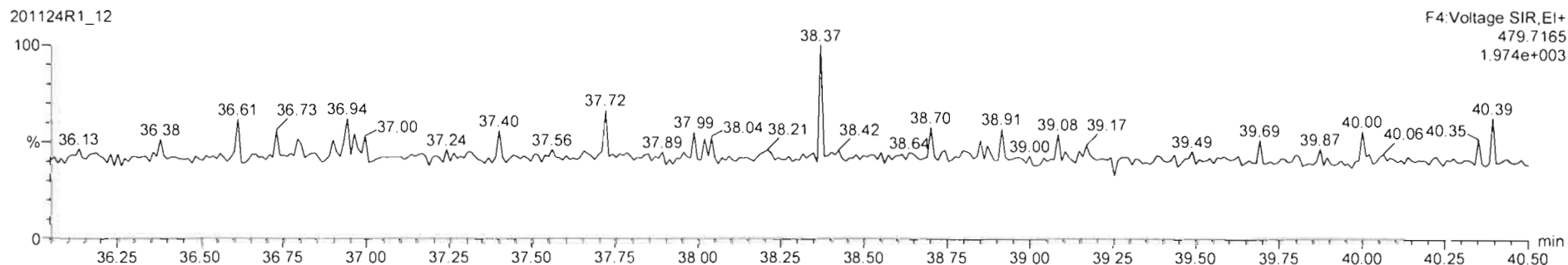
1,2,3,4,6,7,8-HpCDF



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



DPE4

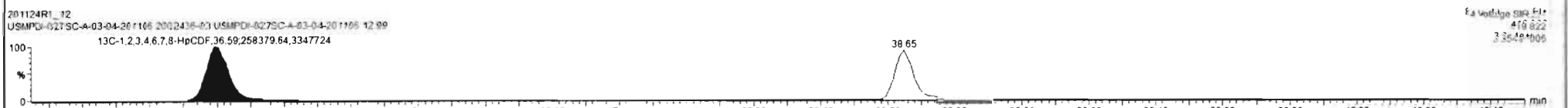
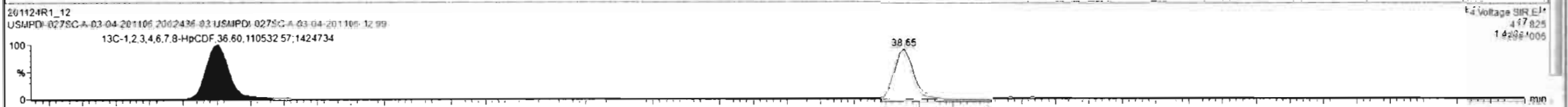
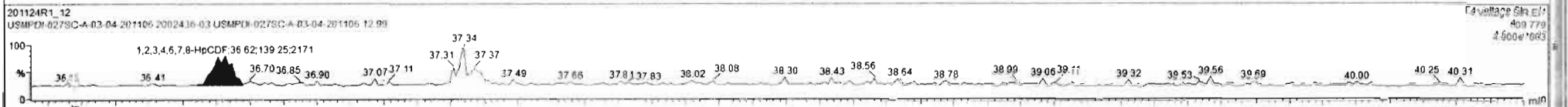
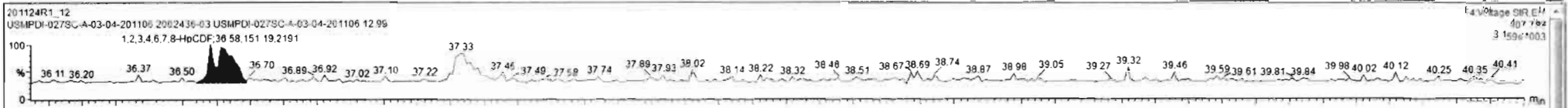


TargetLynx - 201124R1_12.qd - (Chromatogram)

File Edit View Display Processing Window Help

201124R1_12 - 2002436 03 USMPDI-027SC-A-03-04-201106 12-99 - USMPDI-027SC-A-03-04-201106

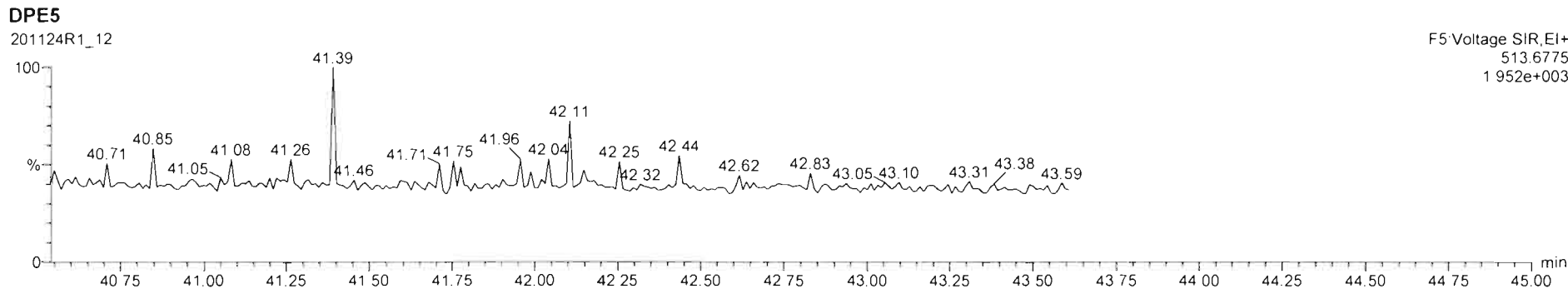
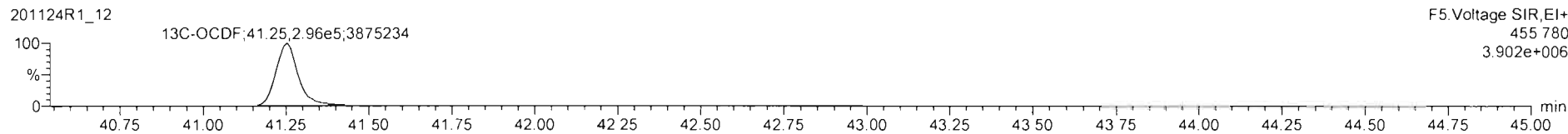
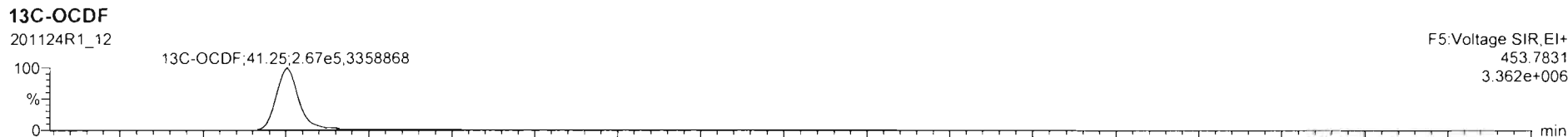
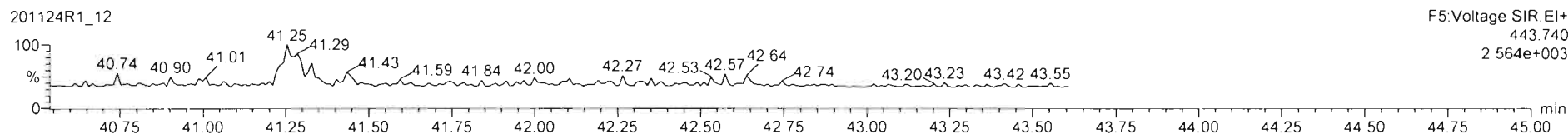
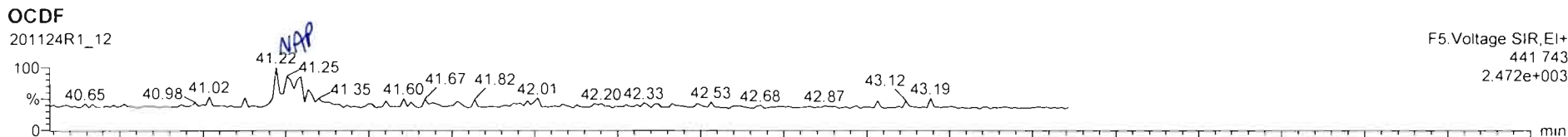
#	Name	Resp	RA	ny	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9501	10.318			0.157	0.0286	0.157	
40	Total Penta-Dioxins				0.8855	10.318				0.0489		
41	Total Hexa-Dioxins				0.9145	10.318			0.589	0.105	0.569	
42	Total Hepta-Dioxins				0.8697	10.318			1.84	0.154	1.84	
43	Total Tetra-Furans				0.8243	10.318				0.0106		
44	1st Func. Penta-Furans				0.9626	10.318				0.00966		
45	Total Penta-Furans				0.9626	10.318				0.0172		
46	Total Hexa-Furans				0.9907	10.318			0.145	0.0285	1.140	
47	Total Hepta-Furans				0.9898	10.318			0.153	0.0362	1.163	
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											

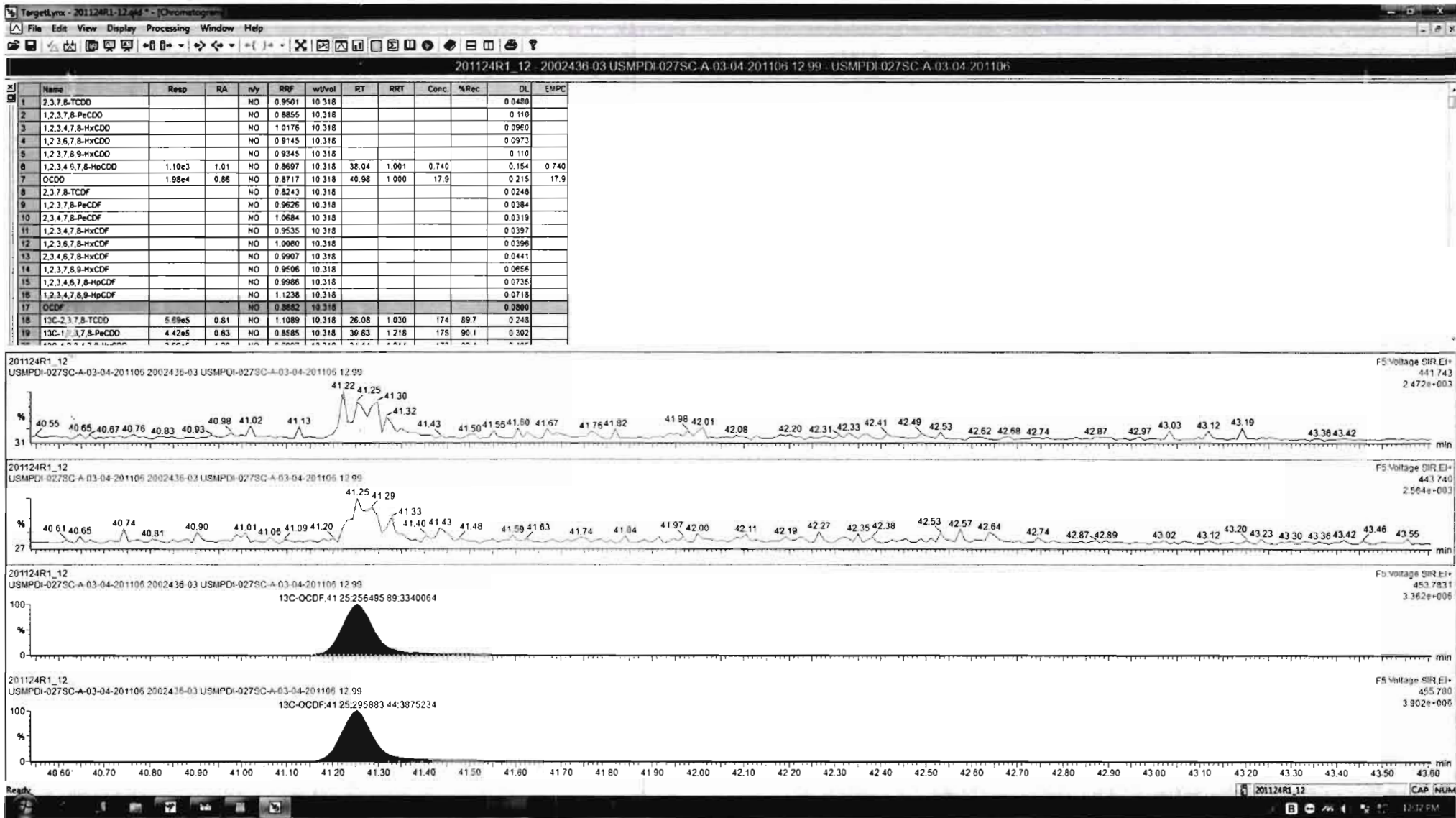


Dataset: Untitled

Last Altered: Wednesday, November 25, 2020 07:04:08 Pacific Standard Time
Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

Name: 201124R1_12, Date: 24-Nov-2020, Time: 19:38:09, ID: 2002436-03 USMPDI-027SC-A-03-04-201106 12.99, Description: USMPDI-027SC-A-03-04-201106





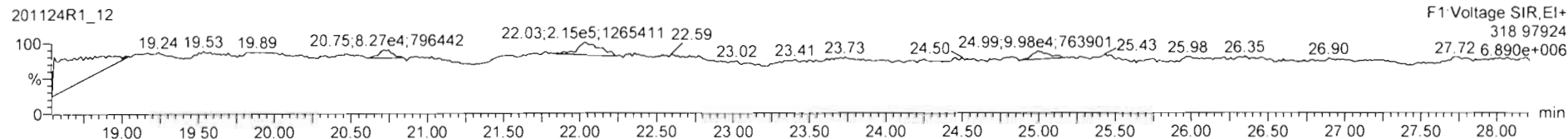
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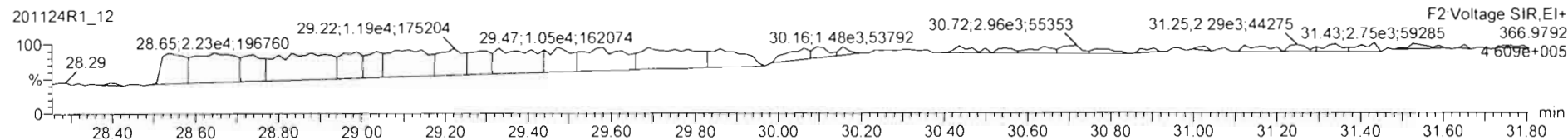
Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

Name: 201124R1_12, Date: 24-Nov-2020, Time: 19:38:09, ID: 2002436-03 USMPDI-027SC-A-03-04-201106 12.99, Description: USMPDI-027SC-A-03-04-201106

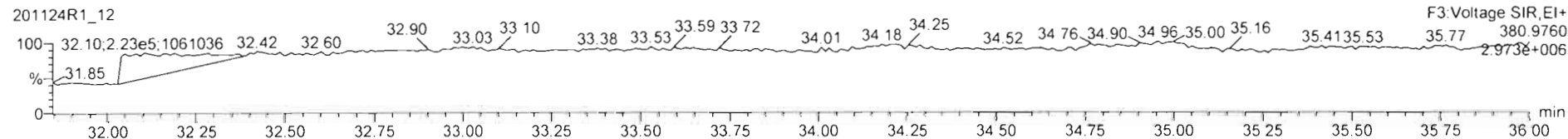
PFK1



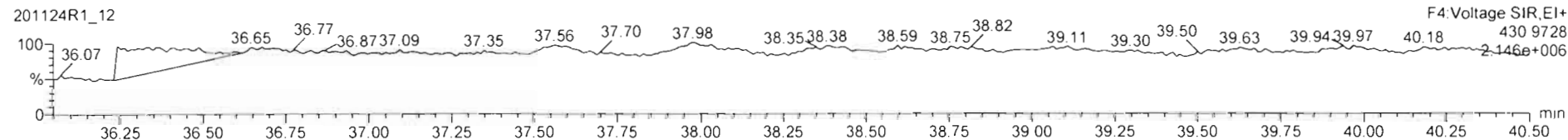
PFK2



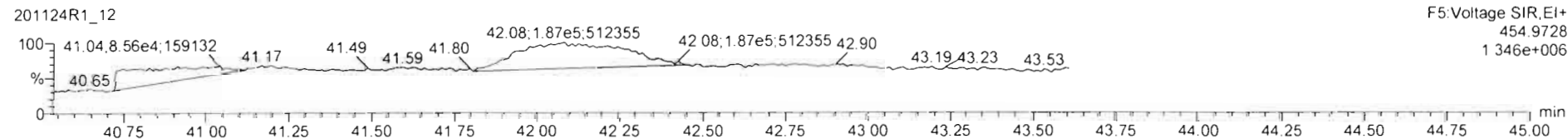
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201124R1\201124R1-13.qld

Last Altered: Wednesday, November 25, 2020 12:47:04 Pacific Standard Time
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GRB 11/25/2020

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

C7 12/04/2020

Name: 201124R1_13, Date: 24-Nov-2020, Time: 20:23:02, ID: 2002436-04 USMPDI-027SC-A-04-05-201106 11.23, Description: USMPDI-027SC-A-04-05-201106

#	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	10.234	26.112		1.001				0.0460	
2	2 1,2,3,7,8-PeCDD			NO	0.885	10.234	30.819		1.000				0.105	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.234	34.135		1.000				0.113	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.234	34.252		1.000				0.114	
5	5 1,2,3,7,8,9-HxCDD			NO	0.934	10.234	34.529		1.000				0.121	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.870	10.234	38.020		1.000				0.199	
7	7 OCDD	2.59e3	0.83	NO	0.872	10.234	40.998	41.01	1.000	1.000	2.6663		0.291	2.67
8	8 2,3,7,8-TCDF			NO	0.824	10.234	25.396		1.000				0.0227	
9	9 1,2,3,7,8-PeCDF			NO	0.963	10.234	29.558		1.000				0.0389	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.234	30.623		1.000				0.0362	
11	11 1,2,3,4,7,8-HxCDF			NO	0.953	10.234	33.220		1.000				0.0290	
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.234	33.348		1.000				0.0268	
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	10.234	34.022		1.000				0.0311	
14	14 1,2,3,7,8,9-HxCDF			NO	0.951	10.234	35.009		1.000				0.0467	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.999	10.234	36.596		1.000				0.0576	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	10.234	38.659		1.000				0.0647	
17	17 OCDF			NO	0.868	10.234	41.294		1.000				0.113	
18	18 13C-2,3,7,8-TCDD	5.40e5	0.81	NO	1.11	10.234	26.073	26.08	1.030	1.030	158.63	81.2	0.183	
19	19 13C-1,2,3,7,8-PeCDD	4.18e5	0.63	NO	0.859	10.234	30.792	30.81	1.216	1.217	158.65	81.2	0.294	
20	20 13C-1,2,3,4,7,8-HxCDD	3.36e5	1.32	NO	0.700	10.234	34.125	34.13	1.014	1.014	159.39	81.6	0.489	
21	21 13C-1,2,3,6,7,8-HxCDD	3.91e5	1.31	NO	0.833	10.234	34.263	34.24	1.018	1.017	155.98	79.8	0.411	
22	22 13C-1,2,3,7,8,9-HxCDD	3.76e5	1.26	NO	0.762	10.234	34.505	34.52	1.025	1.026	163.97	83.9	0.449	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.06e5	1.12	NO	0.650	10.234	37.989	38.02	1.129	1.130	156.77	80.2	0.675	
24	24 13C-OCDD	4.35e5	0.89	NO	0.539	10.234	40.954	41.00	1.217	1.218	267.86	68.5	0.866	
25	25 13C-2,3,7,8-TCDF	7.81e5	0.77	NO	0.981	10.234	25.395	25.39	1.003	1.003	162.55	83.2	0.250	
26	26 13C-1,2,3,7,8-PeCDF	6.47e5	1.59	NO	0.792	10.234	29.524	29.55	1.166	1.167	166.81	85.4	0.618	
27	27 13C-2,3,4,7,8-PeCDF	6.28e5	1.64	NO	0.778	10.234	30.582	30.62	1.208	1.210	164.90	84.4	0.629	
28	28 13C-1,2,3,4,7,8-HxCDF	4.56e5	0.51	NO	0.954	10.234	33.216	33.22	0.987	0.987	159.00	81.4	0.645	
29	29 13C-1,2,3,6,7,8-HxCDF	4.72e5	0.49	NO	1.01	10.234	33.347	33.35	0.991	0.991	155.78	79.7	0.612	
30	30 13C-2,3,4,6,7,8-HxCDF	4.46e5	0.50	NO	0.921	10.234	34.017	34.02	1.011	1.011	160.96	82.4	0.668	

Dataset: U:\VG12.PRO\Results\201124R1\201124R1-13.qld

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Name: 201124R1_13, Date: 24-Nov-2020, Time: 20:23:02, ID: 2002436-04 USMPDI-027SC-A-04-05-201106 11.23, Description: USMPDI-027SC-A-04-05-201106

	# 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	3.90e5	0.51	NO	0.803	10.234	35.013	35.01	1.040	1.040	161.37	82.6	0.766	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.37e5	0.41	NO	0.735	10.234	36.582	36.59	1.087	1.087	152.39	78.0	0.589	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.50e5	0.42	NO	0.568	10.234	38.618	38.66	1.147	1.149	146.10	74.8	0.763	
34	34 13C-OCDF	5.04e5	0.89	NO	0.629	10.234	41.237	41.29	1.225	1.227	266.15	68.1	0.597	
35	35 37Cl-2,3,7,8-TCDD	2.50e5			1.09	10.234	26.073	26.10	1.030	1.031	74.858	95.8	0.0649	
36	36 13C-1,2,3,4-TCDD	5.99e5	0.80	NO	1.00	10.234	25.370	25.31	1.000	1.000	195.42	100	0.203	
37	37 13C-1,2,3,4-TCDF	9.57e5	0.79	NO	1.00	10.234	23.870	23.81	1.000	1.000	195.42	100	0.245	
38	38 13C-1,2,3,4,6,9-HxCDF	5.88e5	0.51	NO	1.00	10.234	33.710	33.66	1.000	1.000	195.42	100	0.615	
39	39 Total Tetra-Dioxins				0.950	10.234	24.620		0.000				0.0263	
40	40 Total Penta-Dioxins				0.885	10.234	29.960		0.000				0.0394	
41	41 Total Hexa-Dioxins				0.915	10.234	33.635		0.000		0.17854		0.0614	0.179
42	42 Total Hepta-Dioxins				0.870	10.234	37.640		0.000				0.103	
43	43 Total Tetra-Furans				0.824	10.234	23.610		0.000				0.00908	
44	44 1st Func. Penta-Furans				0.963	10.234	26.930		0.000				0.00886	
45	45 Total Penta-Furans				0.963	10.234	29.275		0.000				0.0165	
46	46 Total Hexa-Furans				0.991	10.234	33.555		0.000				0.0161	
47	47 Total Hepta-Furans				0.999	10.234	37.835		0.000				0.0319	

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Dataset: U:\VG12.PRO\Results\201124R1\201124R1-13.qld

Last Altered: Wednesday, November 25, 2020 12:47:04 Pacific Standard Time

Printed: Wednesday, November 25, 2020 12:48:18 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: 201124R1_13, Date: 24-Nov-2020, Time: 20:23:02, ID: 2002436-04 USMPDI-027SC-A-04-05-201106 11.23, Description: USMPDI-027SC-A-04-05-201106

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	4.127e3	3.078e3	1.642e2	1.428e2	1.15	NO	3.070e2	0.17854	0.17854	0.0614

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\201124R1\201124R1-13.qld

Last Altered: Wednesday, November 25, 2020 12:47:04 Pacific Standard Time

Printed: Wednesday, November 25, 2020 12:48:18 Pacific Standard Time

Name: 201124R1_13, Date: 24-Nov-2020, Time: 20:23:02, ID: 2002436-04 USMPDI-027SC-A-04-05-201106 11.23, Description: USMPDI-027SC-A-04-05-201106

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

Dataset: Untitled

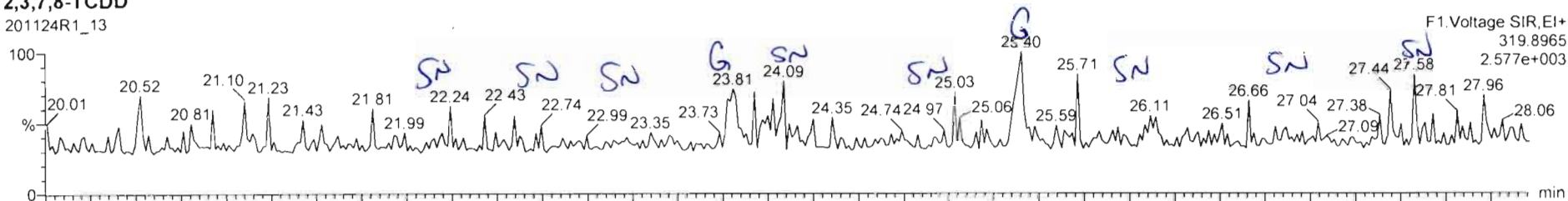
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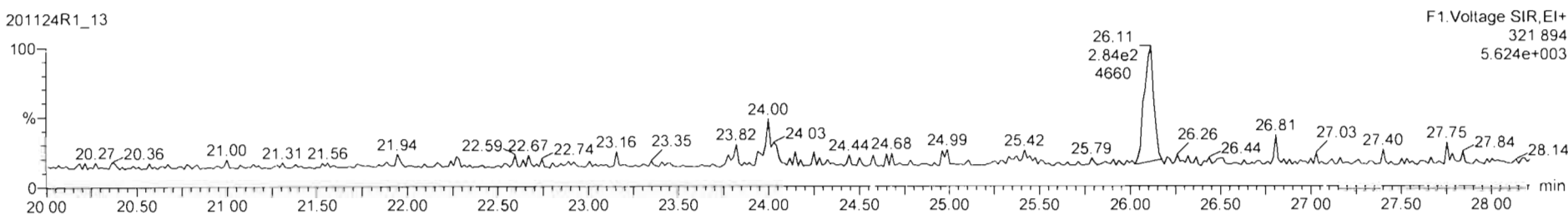
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2,3,7,8-TCDD

201124R1_13

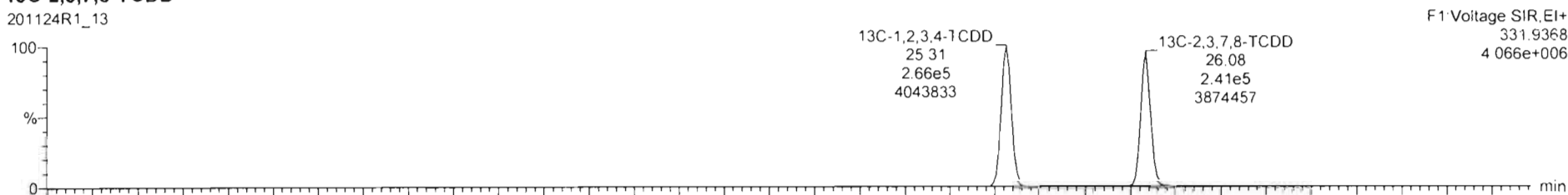


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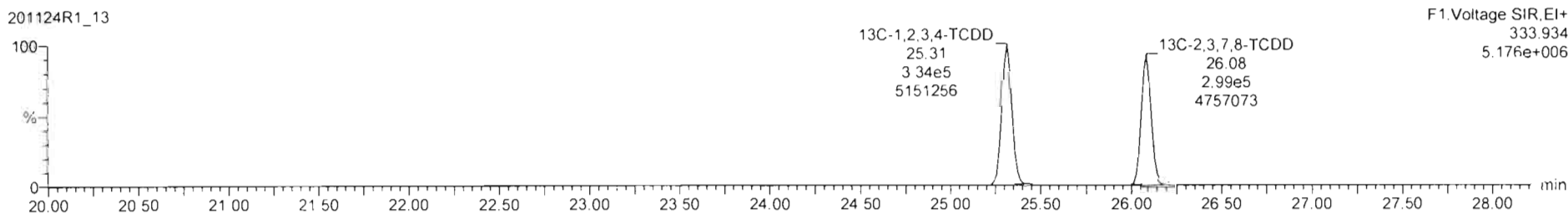


13C-2,3,7,8-TCDD

201124R1_13



201124R1_13



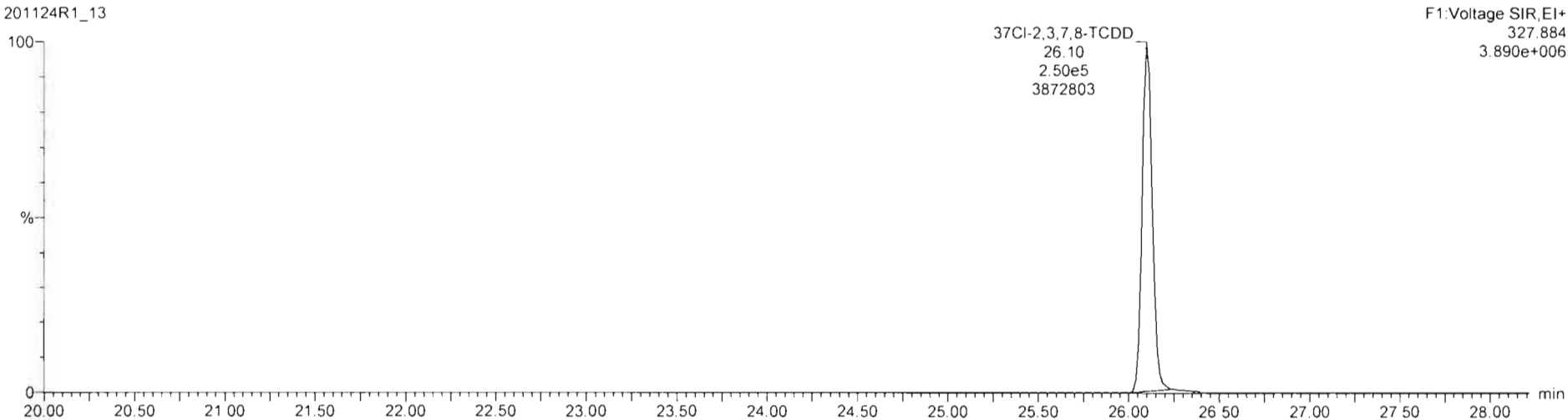
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Name: 201124R1_13, Date: 24-Nov-2020, Time: 20:23:02, ID: 2002436-04 USMPDI-027SC-A-04-05-201106 11.23, Description: USMPDI-027SC-A-04-05-201106

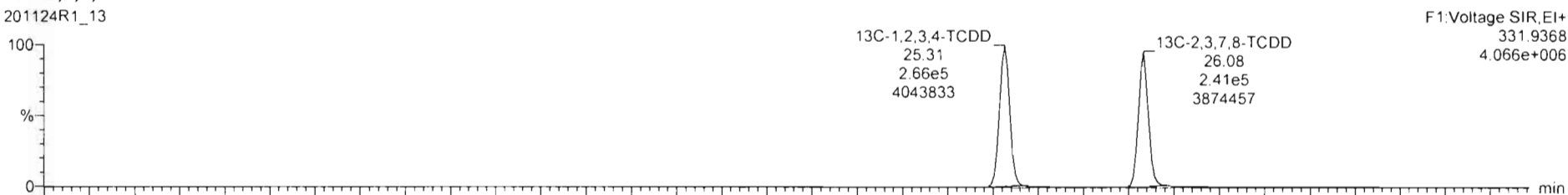
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201124R1_13

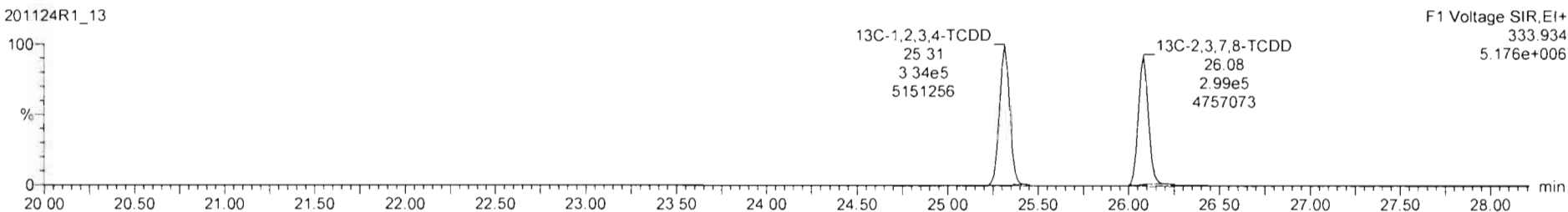


13C-1,2,3,4-TCDD

201124R1_13



201124R1_13



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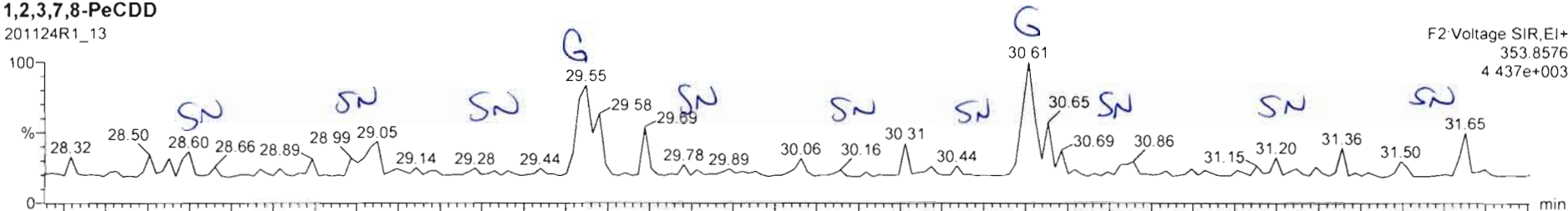
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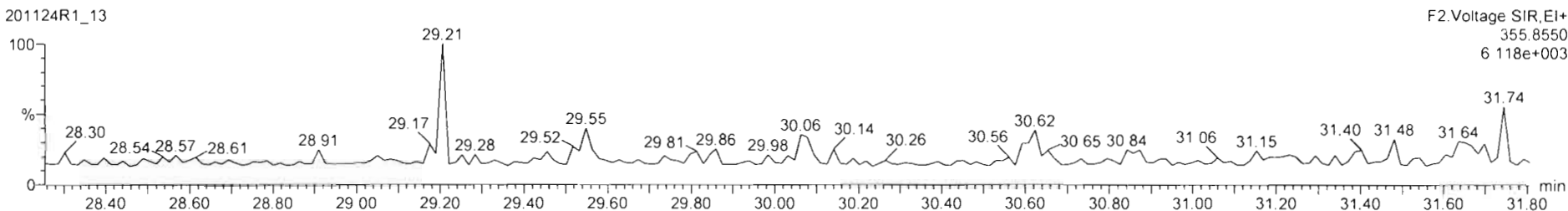
Name: 201124R1_13, Date: 24-Nov-2020, Time: 20:23:02, ID: 2002436-04 USMPDI-027SC-A-04-05-201106 11.23, Description: USMPDI-027SC-A-04-05-201106

1,2,3,7,8-PeCDD

201124R1_13

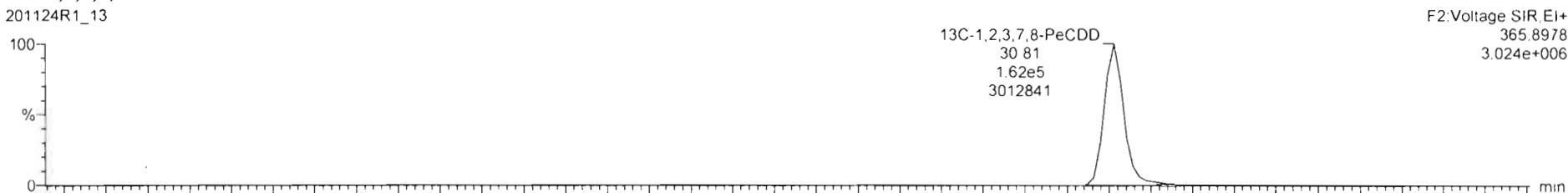


201124R1_13

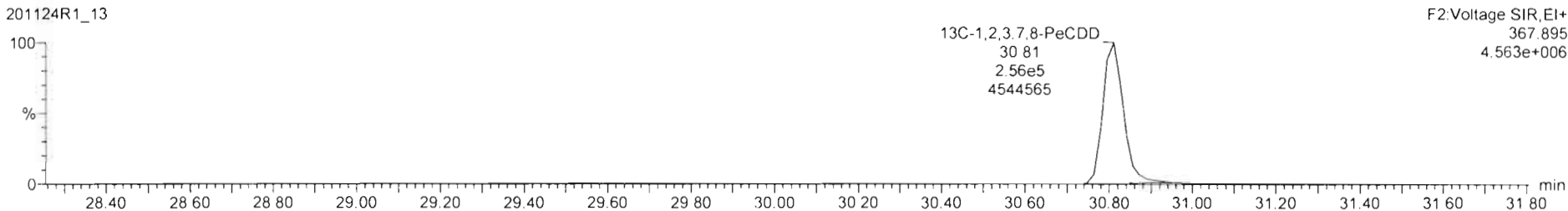


13C-1,2,3,7,8-PeCDD

201124R1_13



201124R1_13

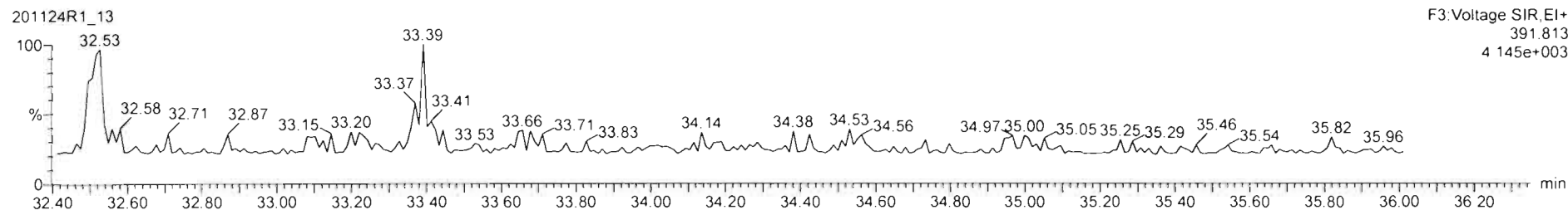
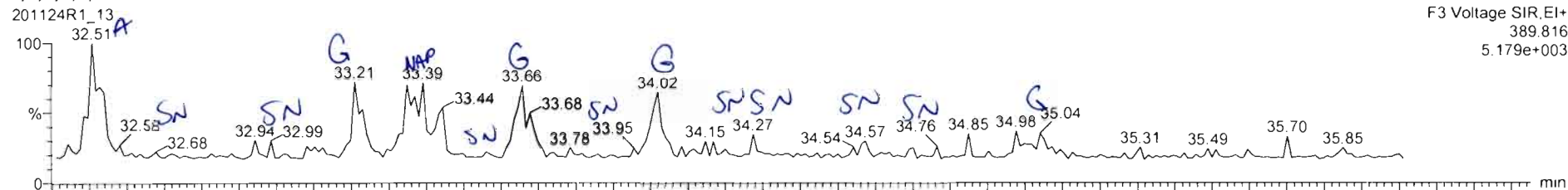


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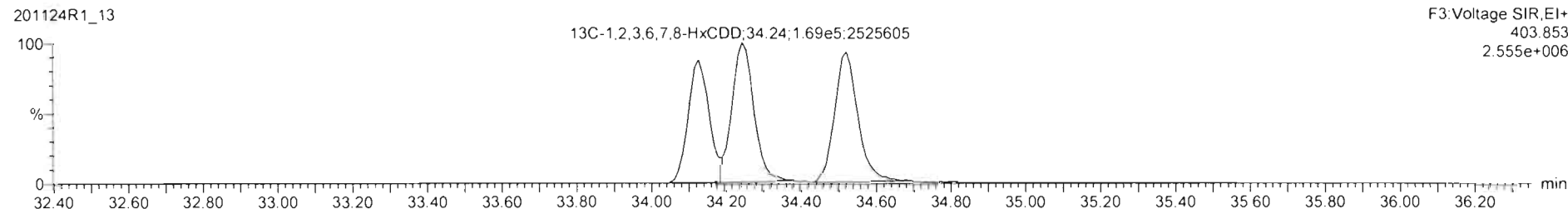
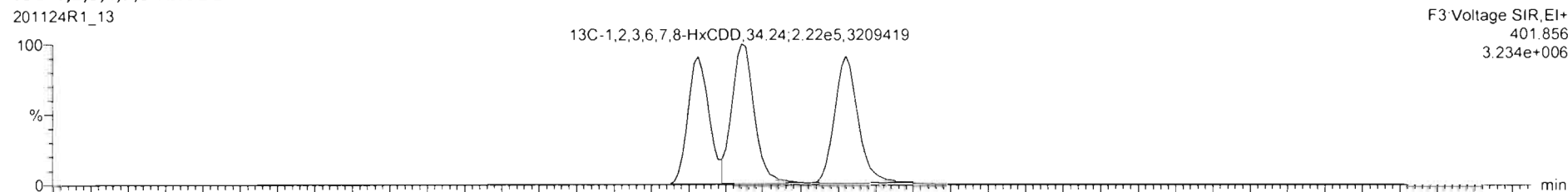
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Name: 201124R1_13, Date: 24-Nov-2020, Time: 20:23:02, ID: 2002436-04 USMPDI-027SC-A-04-05-201106 11.23, Description: USMPDI-027SC-A-04-05-201106

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



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

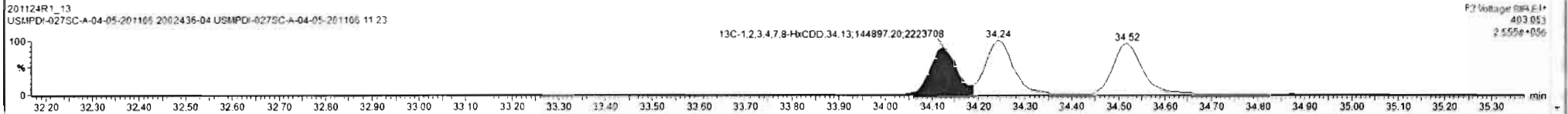
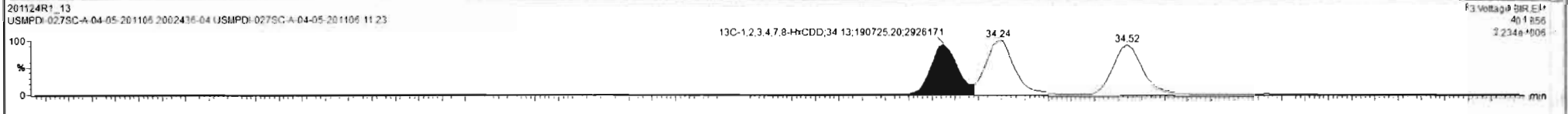
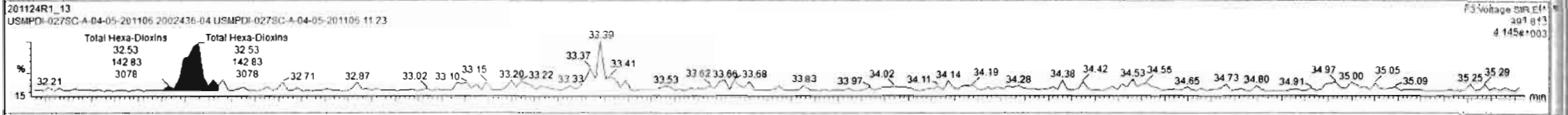
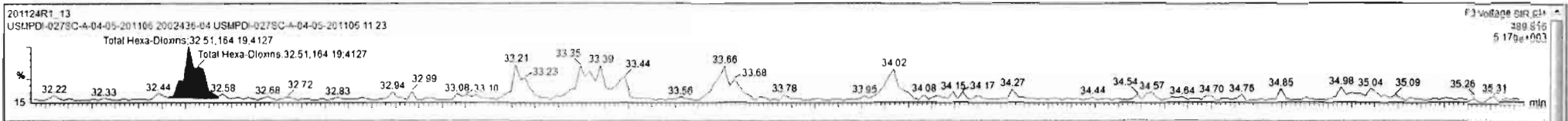


TargetLynx - 201124R1_13.qld - [Chromatogram]

File Edit View Display Processing Window Help

201124R1_13 - 2002436-04 USMPDI-027SC-A-04-05-201106 11:23 - USMPDI-027SC-A-04-05-201106

#	Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9501	10.234				0.0263		
40	Total Penta-Dioxins				0.8855	10.234				0.0394		
41	Total Hexa-Dioxins				0.9145	10.234			0.179	0.0614	0.179	
42	Total Hepta-Dioxins				0.8697	10.234			0.398	0.199	0.398	
43	Total Tetra-Furans				0.8243	10.234				0.00908		
44	1st Func. Penta-Furans				0.9626	10.234				0.00886		
45	Total Penta-Furans				0.9626	10.234				0.0165		
46	Total Hexa-Furans				0.9907	10.234				0.0161		
47	Total Hepta-Furans				0.9986	10.234				0.0319		
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											

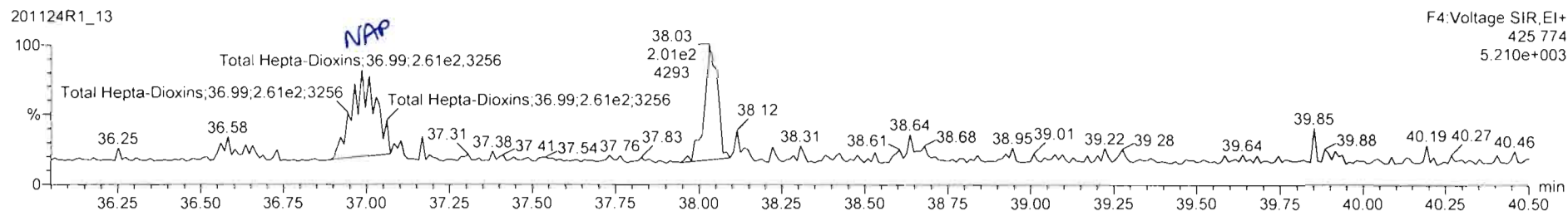
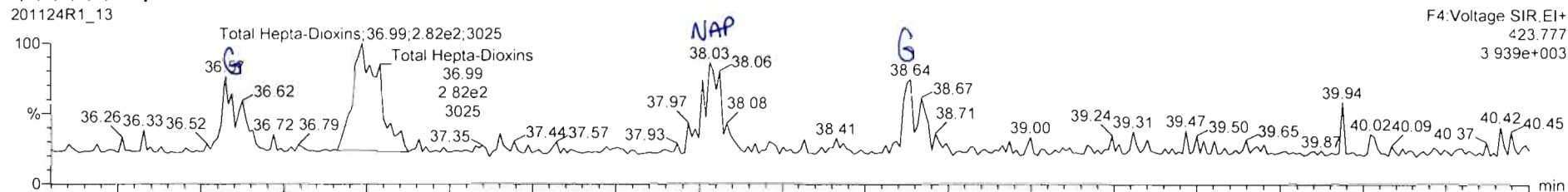


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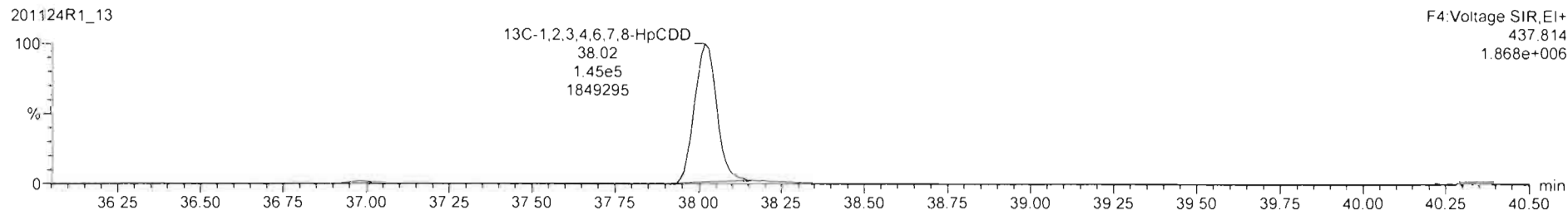
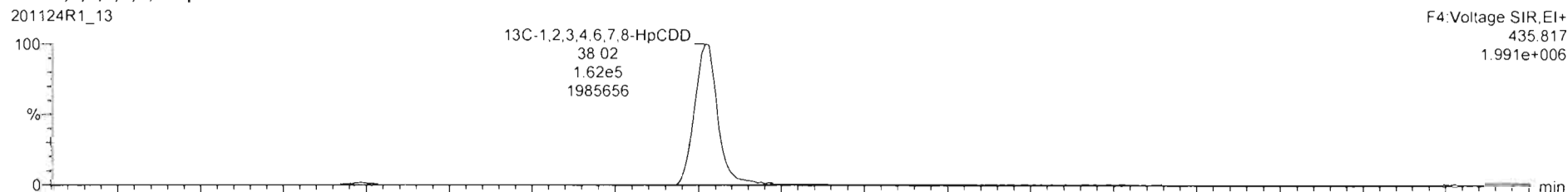
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1,2,3,4,6,7,8-HpCDD



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

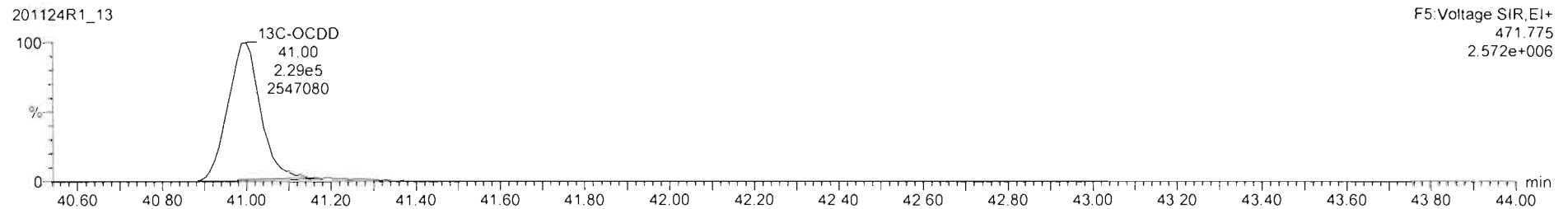
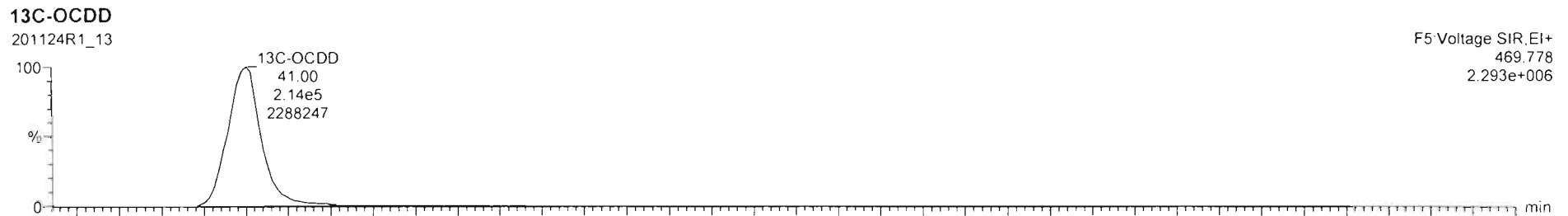
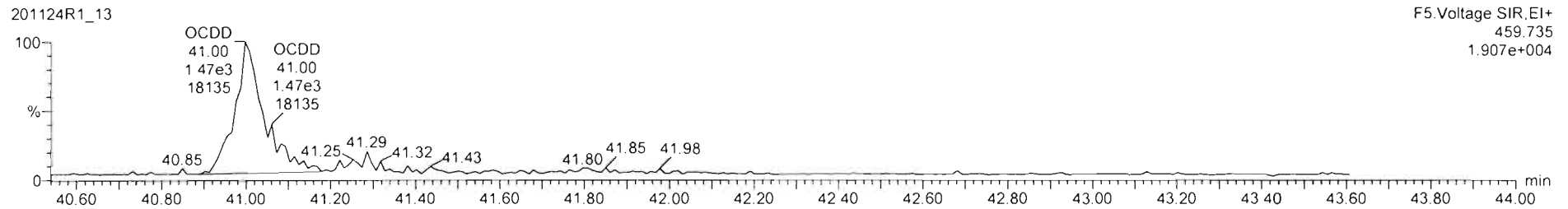
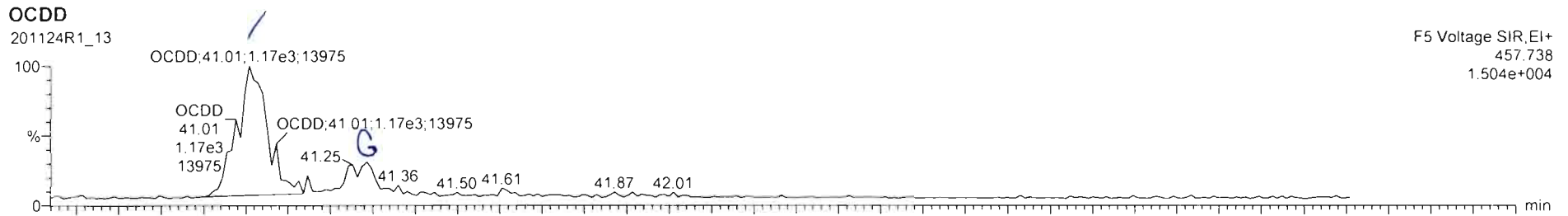


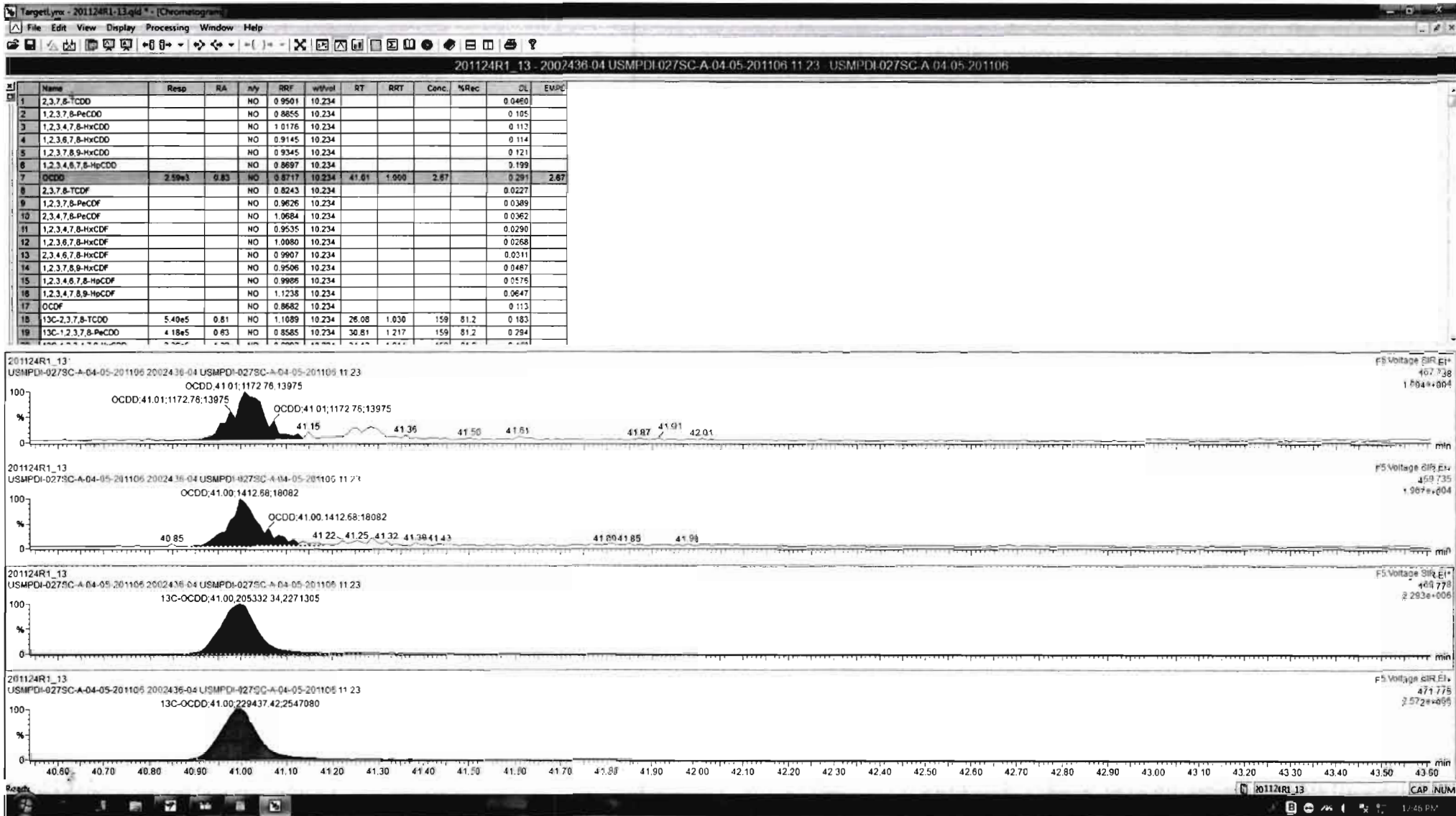
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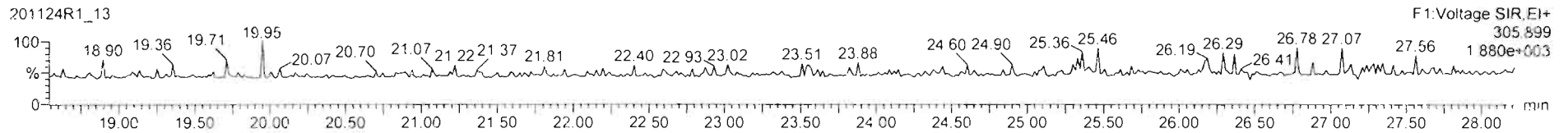
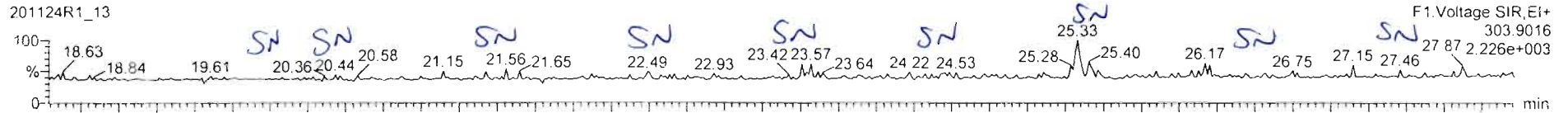
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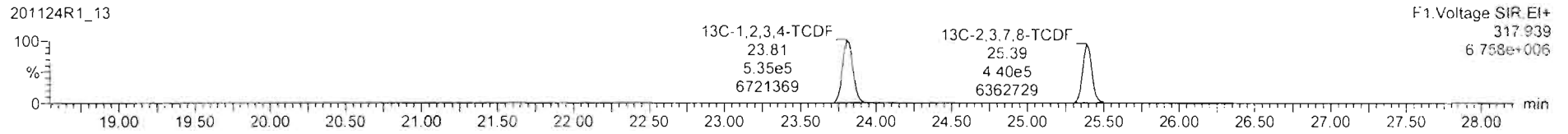
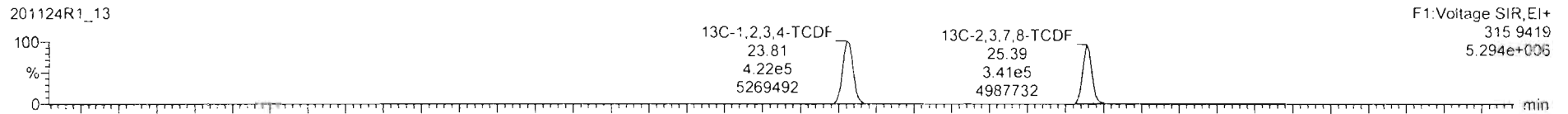
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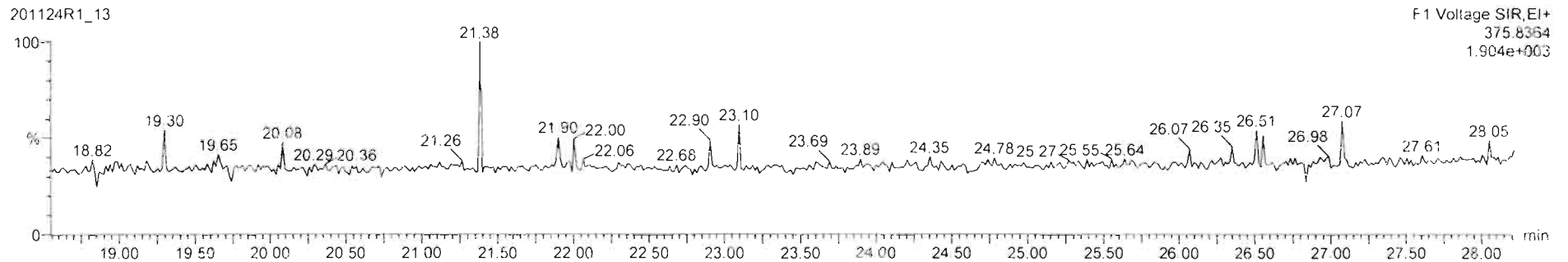
2,3,7,8-TCDF



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



DPE1



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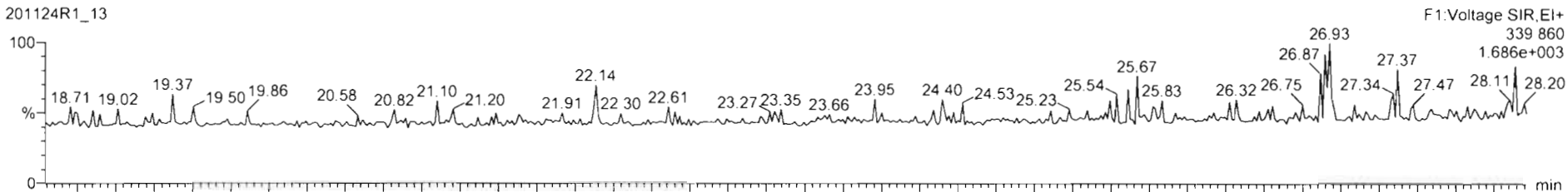
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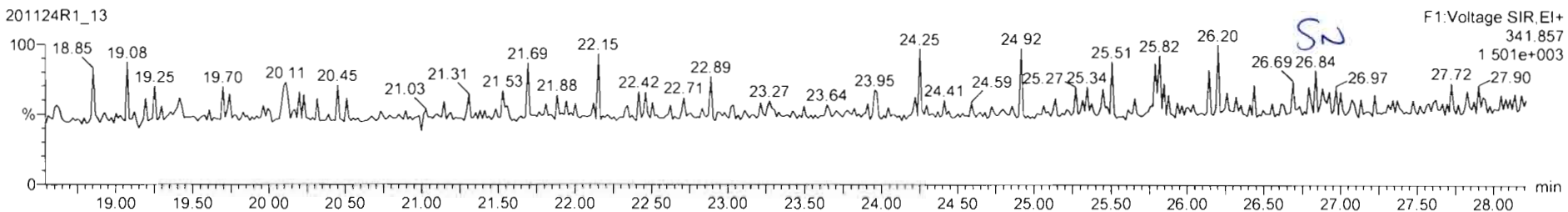
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1st Func. Penta-Furans

201124R1_13

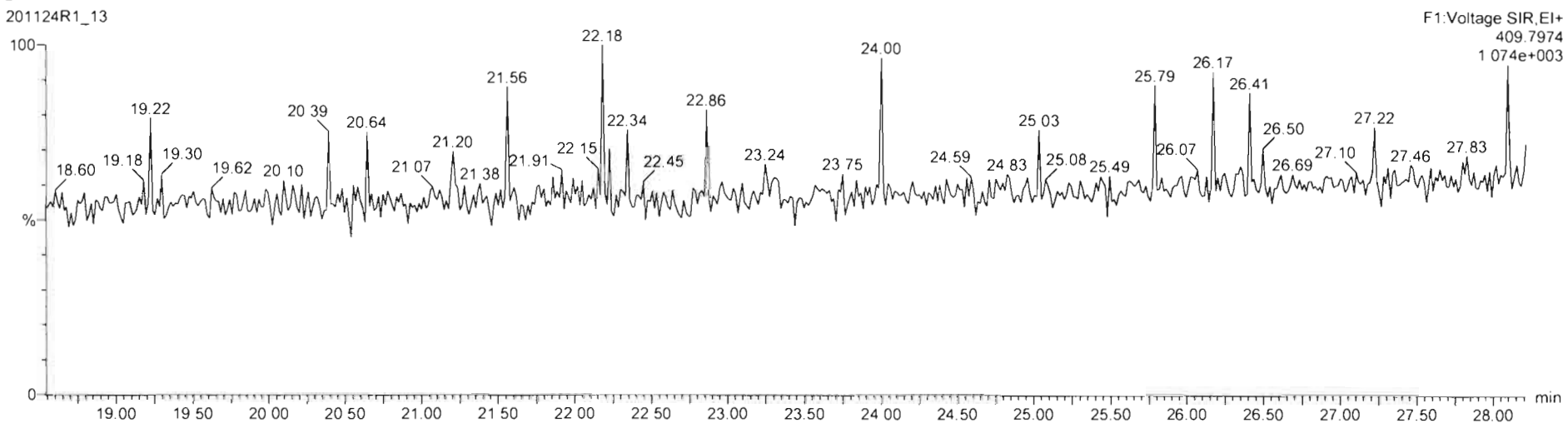


201124R1_13



DPE6

201124R1_13



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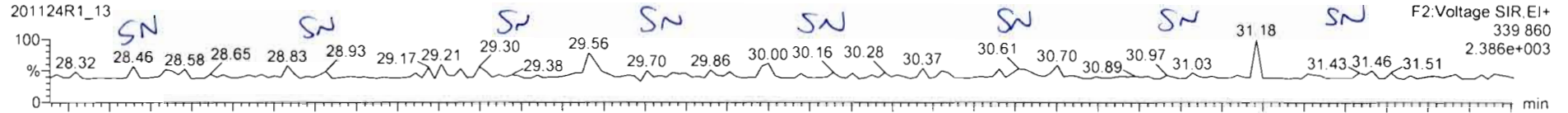
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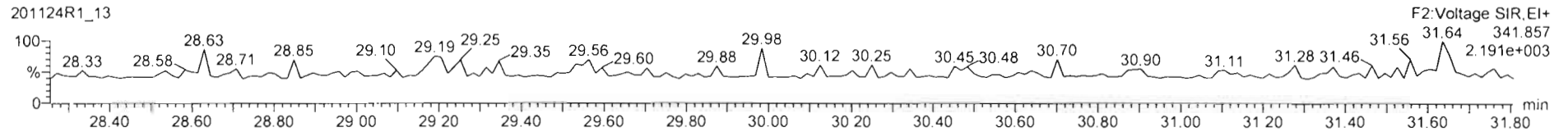
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1,2,3,7,8-PeCDF

201124R1_13

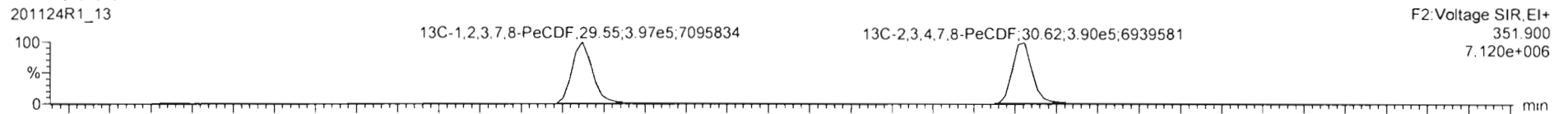


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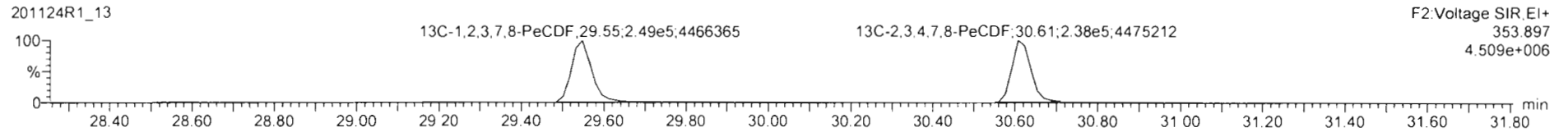


13C-1,2,3,7,8-PeCDF

201124R1_13

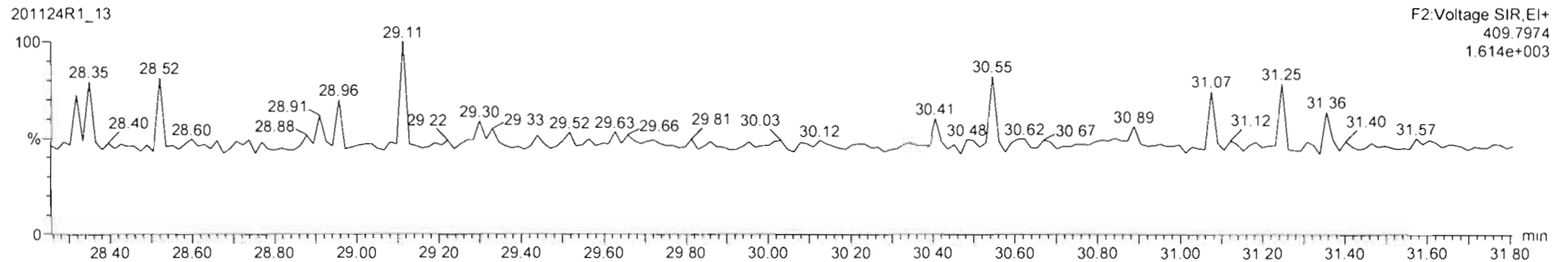


201124R1_13



DPE2

201124R1_13



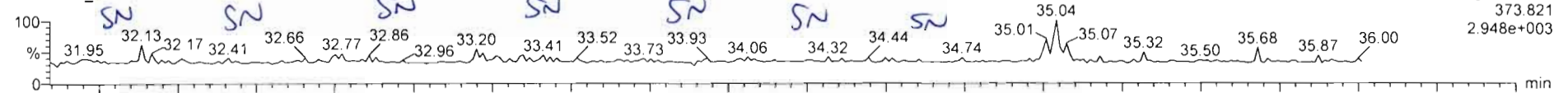
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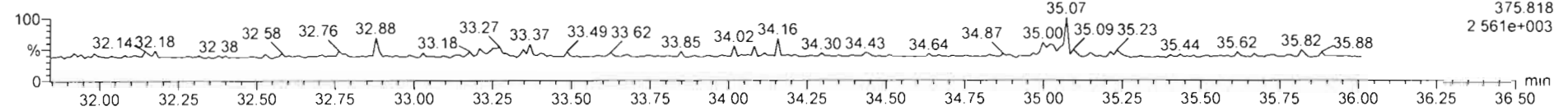
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1,2,3,4,7,8-HxCDF

201124R1_13

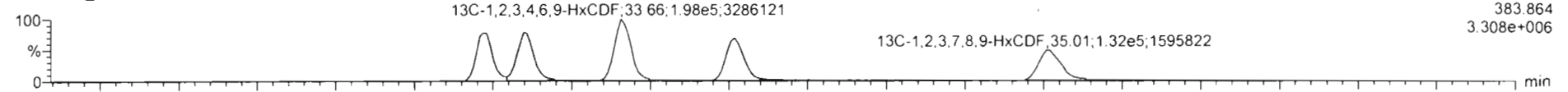


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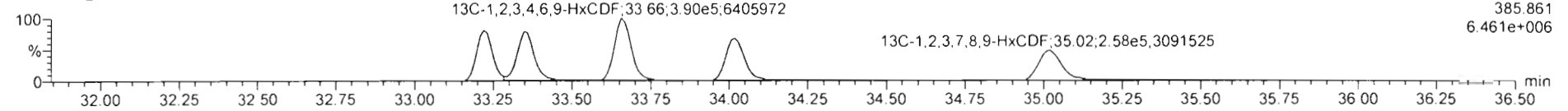


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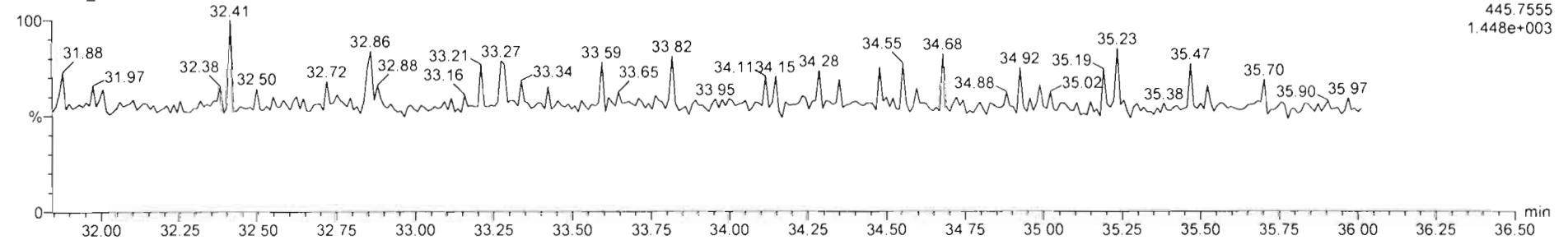


201124R1_13



DPE3

201124R1_13

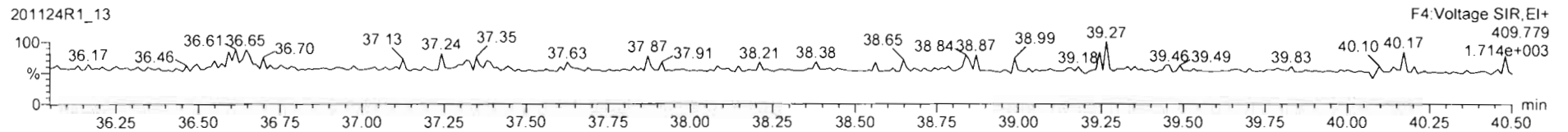
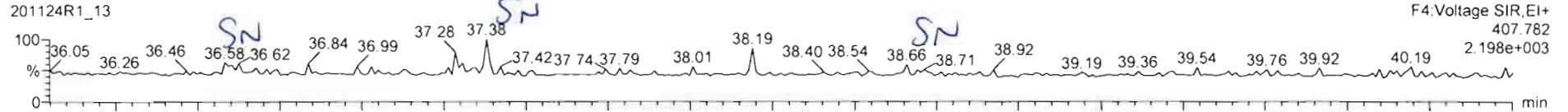


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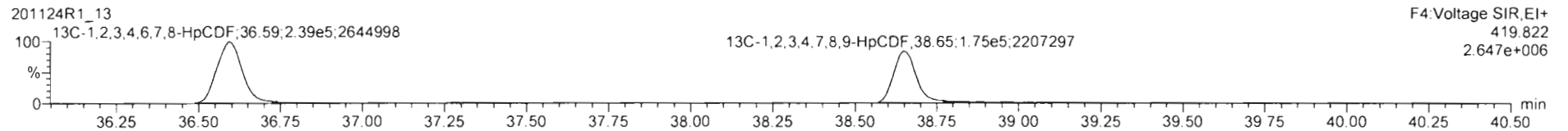
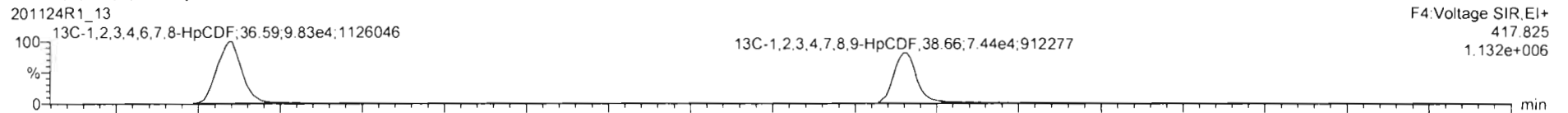
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Name: 201124R1_13, Date: 24-Nov-2020, Time: 20:23:02, ID: 2002436-04 USMPDI-027SC-A-04-05-201106 11.23, Description: USMPDI-027SC-A-04-05-201106

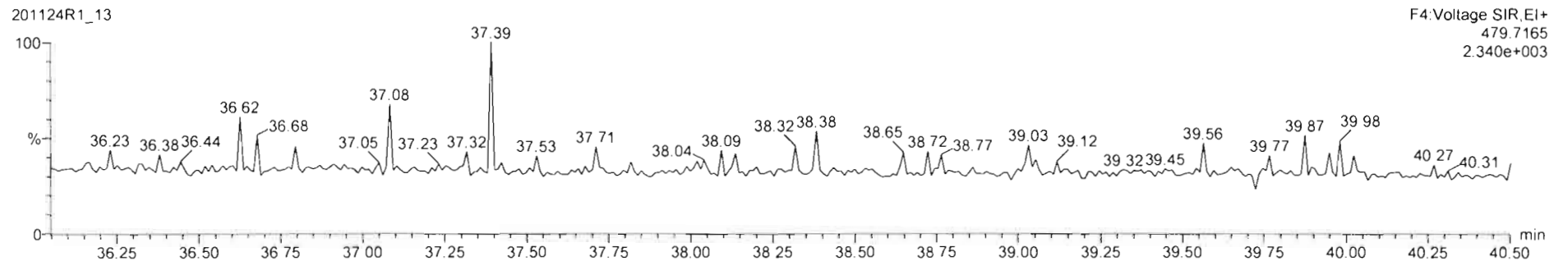
1,2,3,4,6,7,8-HpCDF



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



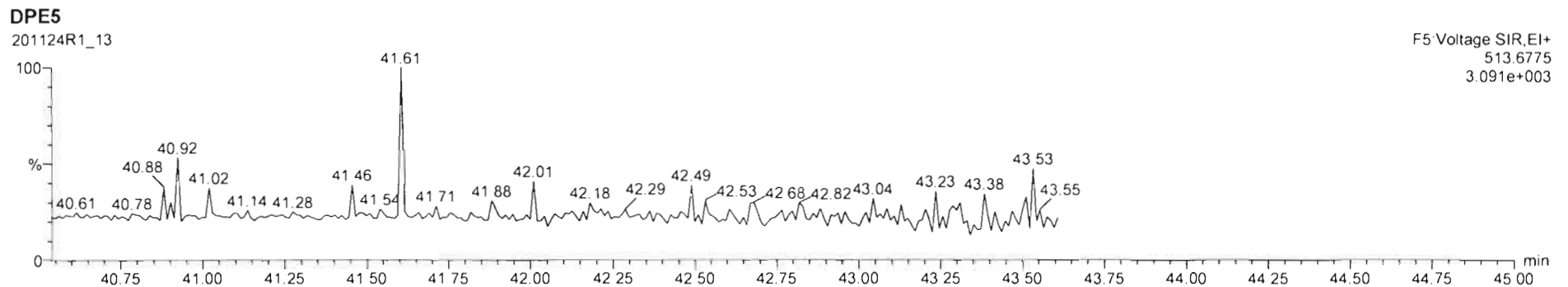
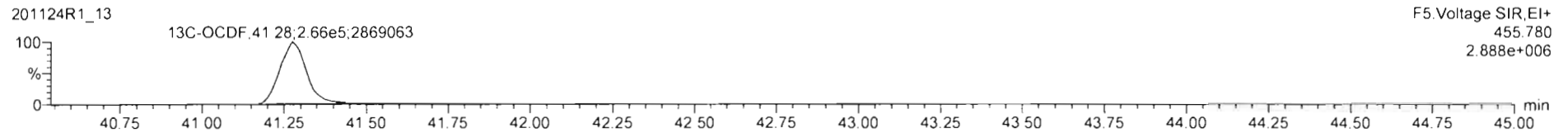
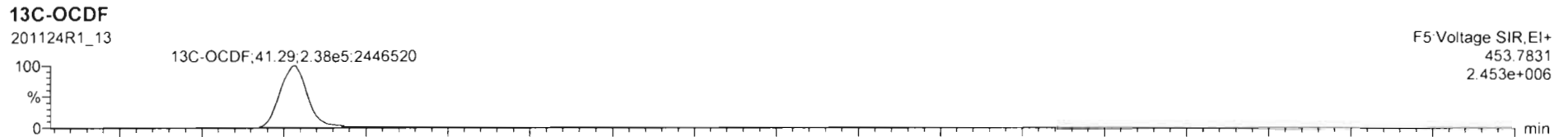
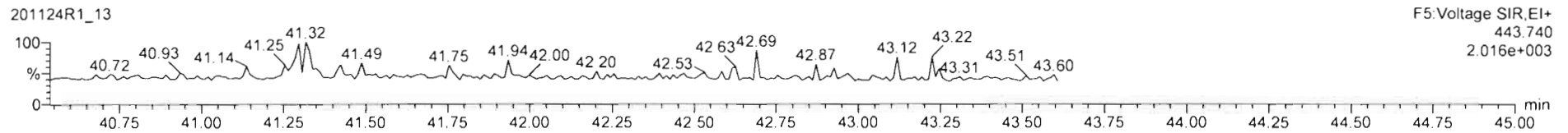
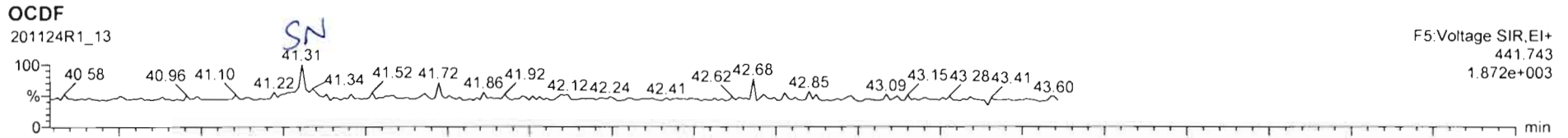
DPE4



Dataset: Untitled

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Dataset: Untitled

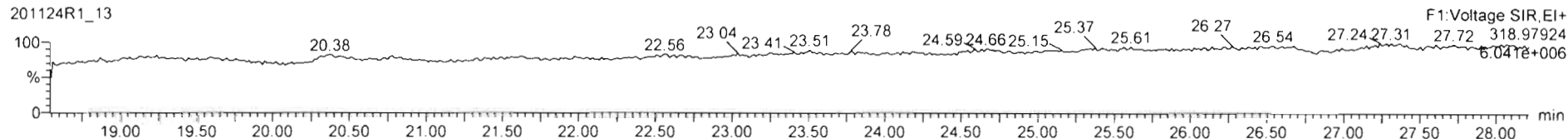
Last Altered: Wednesday, November 25, 2020 07:04:08 Pacific Standard Time

Printed: Wednesday, November 25, 2020 07:52:33 Pacific Standard Time

Name: 201124R1_13, Date: 24-Nov-2020, Time: 20:23:02, ID: 2002436-04 USMPDI-027SC-A-04-05-201106 11.23, Description: USMPDI-027SC-A-04-05-201106

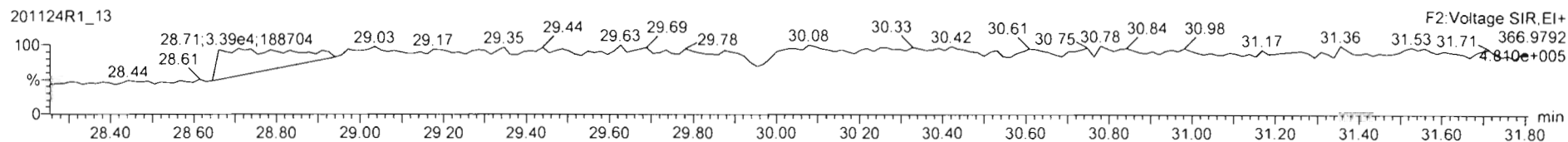
PFK1

201124R1_13



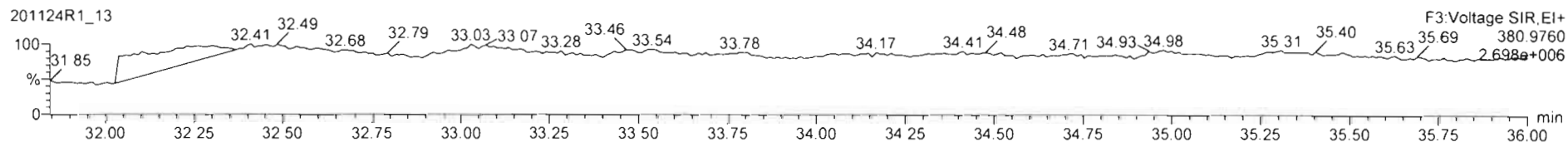
PFK2

201124R1_13



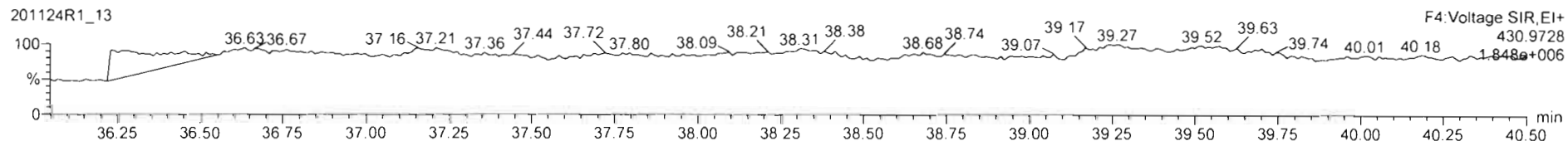
PFK3

201124R1_13



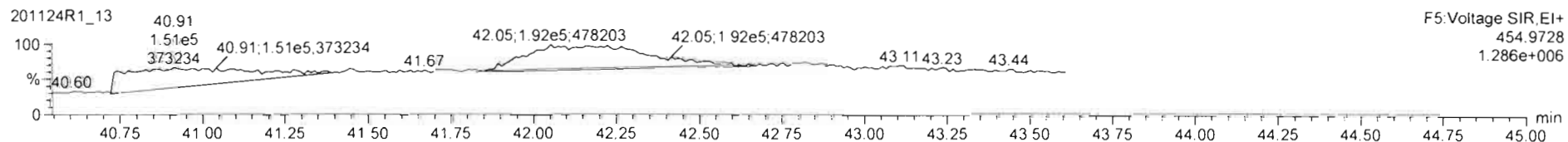
PFK4

201124R1_13



PFK5

201124R1_13



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST201124R1-1

Reviewed By: Hz 11.25.2020

Initials & Date

End Calibration ID: ST201124R2-1

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Verification Std. named correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
(ST-Year-Month-Day-VG ID)		
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Correct ICAL referenced?	<u>GRB</u>	<u>GRB</u>
<u>Run Log:</u>		
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
- Samples within 12 hour clock?	(Y)	N
- Bottle position verified?	<u>GRB</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		
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
GC Break <20%		<input checked="" type="checkbox"/> NA
<u>8280 CS1 End Standard:</u>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input checked="" type="checkbox"/> NA

Comments:

Ⓟ END RES CHECK FOR 201124R1 DID NOT PRINT, MANUALLY PROCESSED THE NEXT MORNING WITH NO CHANGES MADE TO TUNING.
 END RES CHECK HAD SEVERAL MASSES <10K DUE TO PFK DRAIN. ✓

Dataset: U:\VG12.PRO\Results\201124R1\201124R1-1.qld

Last Altered: Wednesday, November 25, 2020 07:02:49 Pacific Standard Time

Printed: Wednesday, November 25, 2020 07:03:00 Pacific Standard Time

GRB 11/25/2020

HZ 11-25-2020

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

Calibration: U:\VG12.PRO\CurveDB\cbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201124R1_1, Date: 24-Nov-2020, Time: 11:13:12, ID: ST201124R1_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	6.62e4	6.36e5	0.75	NO	0.950	26.10	26.10	NO	1.001	1.001	10.959	110	NO
2	2 1,2,3,7,8-PeCDD	2.23e5	4.41e5	0.62	NO	0.885	30.80	30.81	NO	1.000	1.000	56.991	114	NO
3	3 1,2,3,4,7,8-HxCDD	1.99e5	3.74e5	1.27	NO	1.02	34.14	34.14	NO	1.000	1.000	52.293	105	NO
4	4 1,2,3,6,7,8-HxCDD	2.21e5	4.52e5	1.33	NO	0.915	34.25	34.25	NO	1.000	1.000	53.425	107	NO
5	5 1,2,3,7,8,9-HxCDD	2.00e5	4.03e5	1.30	NO	0.934	34.52	34.53	NO	1.000	1.001	52.999	106	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.52e5	3.43e5	1.02	NO	0.870	38.01	38.02	NO	1.000	1.000	50.809	102	NO
7	7 OCDD	2.56e5	5.51e5	0.90	NO	0.872	40.99	41.00	NO	1.000	1.000	106.39	106	NO
8	8 2,3,7,8-TCDF	7.44e4	9.26e5	0.74	NO	0.824	25.40	25.40	NO	1.000	1.001	9.7493	97.5	NO
9	9 1,2,3,7,8-PeCDF	3.70e5	7.27e5	1.58	NO	0.963	29.54	29.55	NO	1.000	1.001	52.839	106	NO
10	10 2,3,4,7,8-PeCDF	3.72e5	6.82e5	1.62	NO	1.07	30.61	30.62	NO	1.000	1.000	51.058	102	NO
11	11 1,2,3,4,7,8-HxCDF	2.40e5	4.99e5	1.20	NO	0.953	33.22	33.23	NO	1.000	1.000	50.408	101	NO
12	12 1,2,3,6,7,8-HxCDF	2.71e5	5.39e5	1.20	NO	1.01	33.35	33.36	NO	1.000	1.000	49.981	100	NO
13	13 2,3,4,6,7,8-HxCDF	2.57e5	5.08e5	1.21	NO	0.991	34.01	34.03	NO	1.000	1.001	51.003	102	NO
14	14 1,2,3,7,8,9-HxCDF	1.96e5	4.07e5	1.24	NO	0.951	35.01	35.02	NO	1.000	1.000	50.599	101	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.95e5	3.81e5	1.01	NO	0.999	36.59	36.60	NO	1.000	1.001	51.222	102	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.51e5	2.65e5	1.00	NO	1.12	38.64	38.65	NO	1.000	1.000	50.663	101	NO
17	17 OCDF	2.69e5	5.98e5	0.88	NO	0.868	41.28	41.29	NO	1.000	1.000	103.52	104	NO
18	18 13C-2,3,7,8-TCDD	6.36e5	5.64e5	0.82	NO	1.11	26.06	26.07	NO	1.030	1.030	101.62	102	NO
19	19 13C-1,2,3,7,8-PeCDD	4.41e5	5.64e5	0.63	NO	0.859	30.77	30.80	NO	1.216	1.217	91.060	91.1	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.74e5	5.31e5	1.30	NO	0.700	34.12	34.13	NO	1.014	1.014	100.61	101	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.52e5	5.31e5	1.28	NO	0.833	34.26	34.24	NO	1.018	1.017	102.24	102	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.03e5	5.31e5	1.27	NO	0.762	34.51	34.51	NO	1.025	1.025	99.626	99.6	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.43e5	5.31e5	1.06	NO	0.650	37.99	38.01	NO	1.129	1.129	99.499	99.5	NO
24	24 13C-OCDD	5.51e5	5.31e5	0.90	NO	0.539	40.95	40.99	NO	1.217	1.218	192.41	96.2	NO
25	25 13C-2,3,7,8-TCDF	9.26e5	9.31e5	0.77	NO	0.981	25.38	25.39	NO	1.003	1.004	101.38	101	NO
26	26 13C-1,2,3,7,8-PeCDF	7.27e5	9.31e5	1.59	NO	0.792	29.51	29.53	NO	1.166	1.167	98.613	98.6	NO
27	27 13C-2,3,4,7,8-PeCDF	6.82e5	9.31e5	1.61	NO	0.778	30.56	30.61	NO	1.208	1.210	94.190	94.2	NO
28	28 13C-1,2,3,4,7,8-HxCDF	4.99e5	5.31e5	0.50	NO	0.954	33.22	33.22	NO	0.987	0.987	98.579	98.6	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.39e5	5.31e5	0.50	NO	1.01	33.35	33.35	NO	0.991	0.991	100.81	101	NO
30	30 13C-2,3,4,6,7,8-HxCDF	5.08e5	5.31e5	0.50	NO	0.921	34.02	34.01	NO	1.011	1.010	103.90	104	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.07e5	5.31e5	0.49	NO	0.803	35.01	35.01	NO	1.040	1.040	95.321	95.3	NO

Dataset: U:\VG12.PRO\Results\201124R1\201124R1-1.qld

Last Altered: Wednesday, November 25, 2020 07:02:49 Pacific Standard Time

Printed: Wednesday, November 25, 2020 07:03:00 Pacific Standard Time

Name: 201124R1_1, Date: 24-Nov-2020, Time: 11:13:12, ID: ST201124R1_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	13C-1,2,3,4,6,7,8-HpCDF	3.81e5	5.31e5	0.43	NO	0.735	36.58	36.58	NO	1.087	1.087	97.614	97.6	NO
33	13C-1,2,3,4,7,8,9-HpCDF	2.65e5	5.31e5	0.42	NO	0.568	38.62	38.64	NO	1.147	1.148	87.880	87.9	NO
34	13C-OCDF	5.98e5	5.31e5	0.88	NO	0.629	41.24	41.28	NO	1.225	1.226	178.99	89.5	NO
35	37Cl-2,3,7,8-TCDD	6.61e4	5.64e5			1.09	26.06	26.10	NO	1.030	1.032	10.762	108	NO
36	13C-1,2,3,4-TCDD	5.64e5	5.64e5	0.79	NO	1.00	25.37	25.30	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	9.31e5	9.31e5	0.78	NO	1.00	23.87	23.81	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	5.31e5	5.31e5	0.51	NO	1.00	33.71	33.66	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Wednesday, November 25, 2020 06:58:36 Pacific Standard Time

Printed: Wednesday, November 25, 2020 06:58:41 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

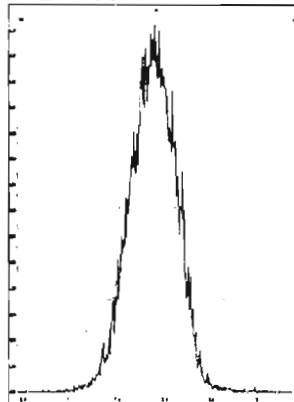
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	201124R1_1	ST201124R1_1 1613 CS3 20F1105	24-Nov-20	11:13:12
2	201124R1_2	TCDF CPSM	24-Nov-20	11:58:41
3	201124R1_3	B0K0129-BS1 OPR 10	24-Nov-20	12:43:35
4	201124R1_4	SOLVENT BLANK	24-Nov-20	13:38:26
5	201124R1_5	B0K0129-BLK1 Method Blank 10	24-Nov-20	14:23:22
6	201124R1_6	2002451-01 GW-1227 1.00024	24-Nov-20	15:08:44
7	201124R1_7	2002451-02 GW-1232 0.93108	24-Nov-20	15:53:39
8	201124R1_8	2002451-03 GW-1231 1.00711	24-Nov-20	16:38:35
9	201124R1_9	2002451-04 GW-1228 1.00796	24-Nov-20	17:23:28
10	201124R1_10	2002425-01 Comp 28.34	24-Nov-20	18:08:23
11	201124R1_11	2002436-01 USMPDI-027SC-A-01-02-201106 ...	24-Nov-20	18:53:16
12	201124R1_12	2002436-03 USMPDI-027SC-A-03-04-201106 ...	24-Nov-20	19:38:09
13	201124R1_13	2002436-04 USMPDI-027SC-A-04-05-201106 ...	24-Nov-20	20:23:02
14	201124R1_14	2002356-01 NCPDI-065SC-01-02-201026 6.69	24-Nov-20	21:07:56
15	201124R1_15	2002356-02 NCPDI-065SC-02-03-201026 6.48	24-Nov-20	21:52:50
16	201124R2_1	SOLVENT BLANK	24-Nov-20	22:46:44
17	201124R2_2	ST201124R2_1 1613 CS3 20F1105	24-Nov-20	23:31:39
18	201124R2_3	TCDF CPSM	25-Nov-20	00:16:32

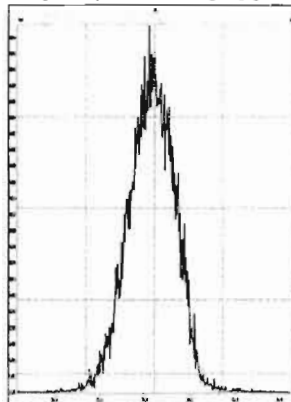
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, November 24, 2020 11:10:50 Pacific Standard Time

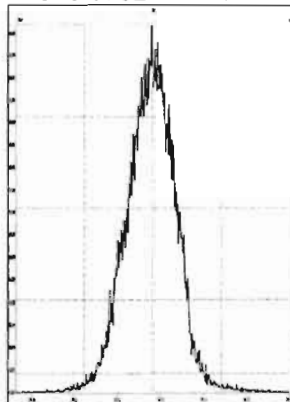
M 292.9824 R 13512



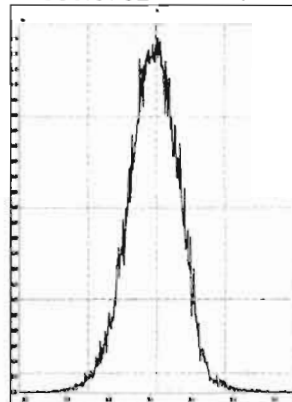
M 304.9824 R 13159



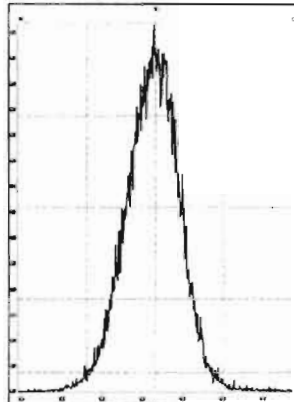
M 318.9792 R 12625



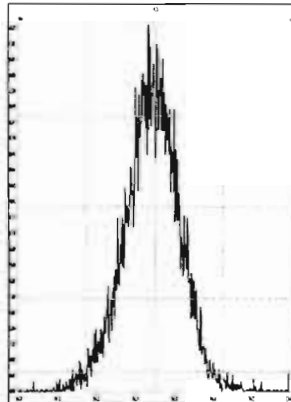
M 330.9792 R 11794



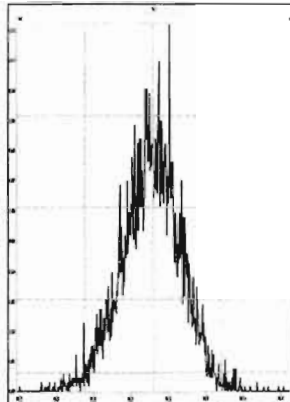
M 342.9792 R 11016



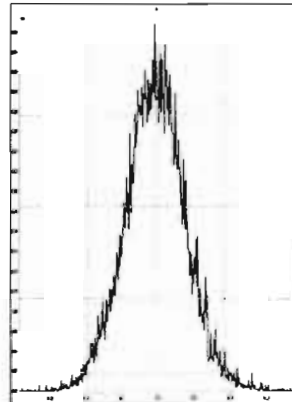
M 354.9792 R 11793



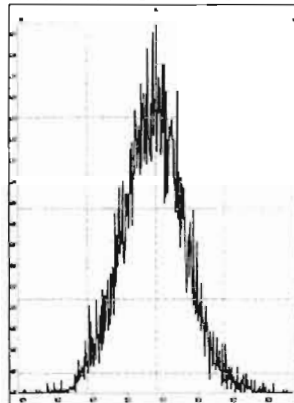
M 366.9792 R 10774



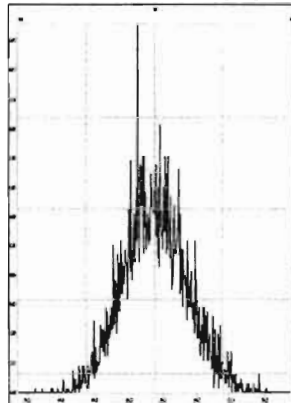
M 380.9760 R 10204



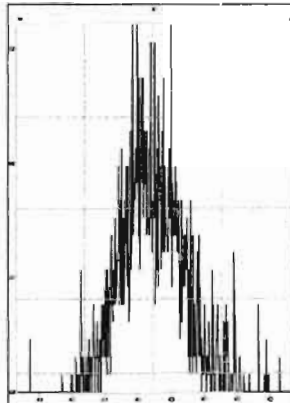
M 392.9760 R 11011



M 404.9760 R 11013



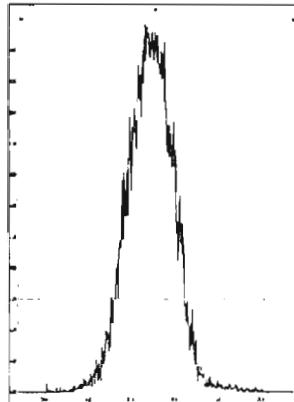
M 416.9760 R 12313



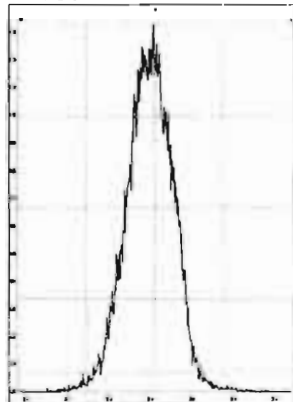
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, November 24, 2020 11:11:12 Pacific Standard Time

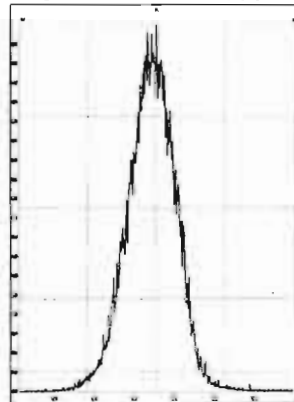
M 318.9792 R 14286



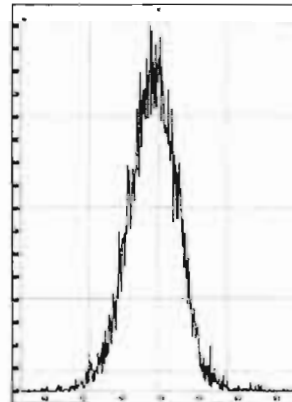
M 330.9792 R 14128



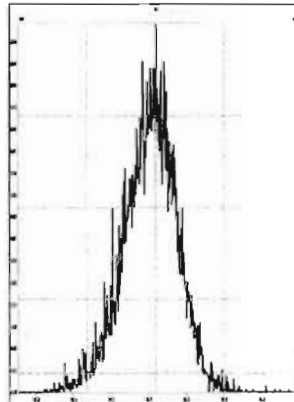
M 342.9792 R 12500



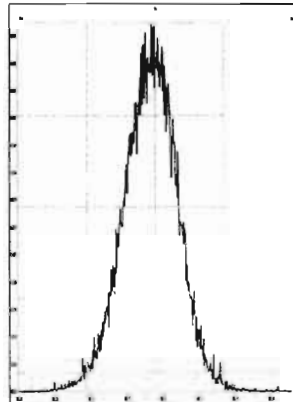
M 354.9792 R 12687



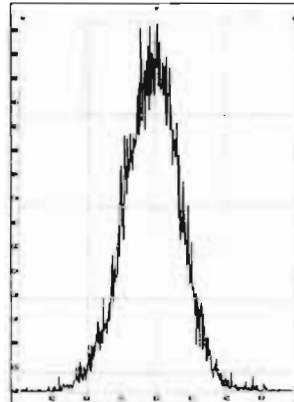
M 366.9792 R 11312



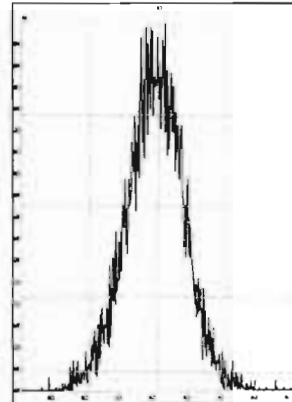
M 380.9760 R 11015



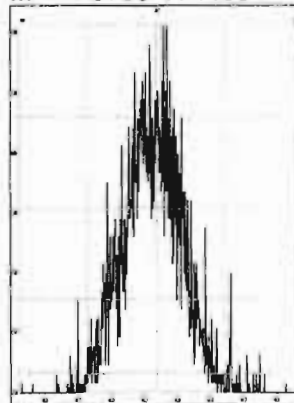
M 392.9760 R 10822



M 404.9760 R 10332



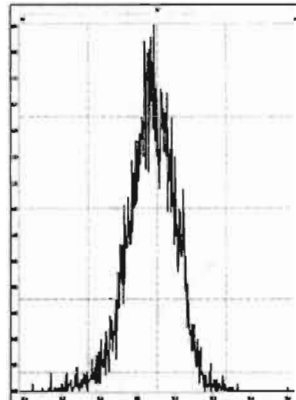
M 416.9760 R 11681



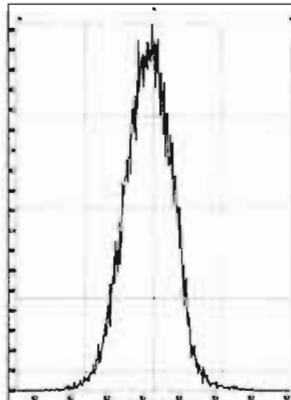
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, November 24, 2020 11:11:31 Pacific Standard Time

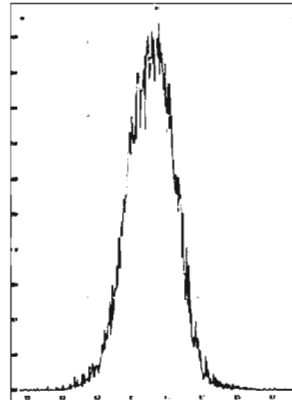
M 366.9792 R 13966



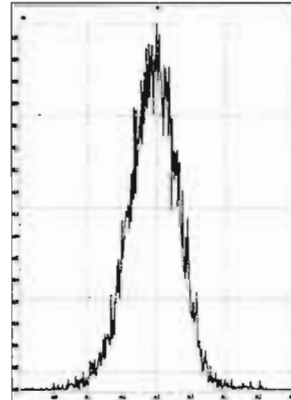
M 380.9760 R 13438



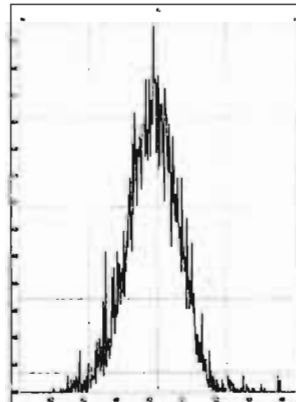
M 392.9760 R 13227



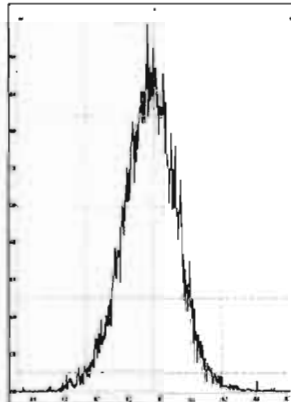
M 404.9760 R 12313



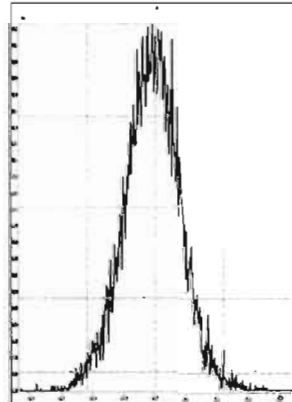
M 416.9760 R 12500



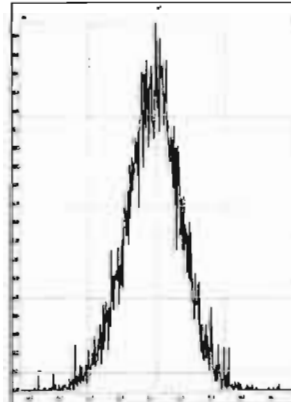
M 430.9728 R 11790



M 442.9728 R 11210



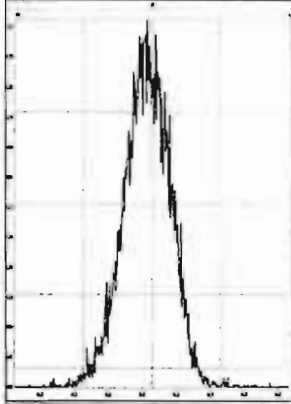
M 454.9728 R 11014



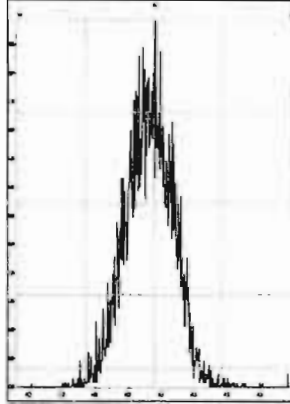
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, November 24, 2020 11:11:48 Pacific Standard Time

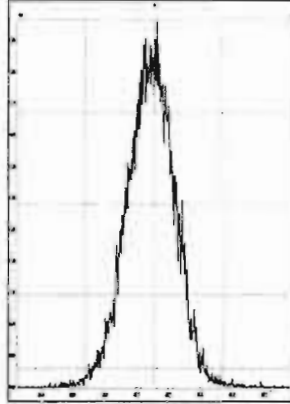
M 404.9760 R 13226



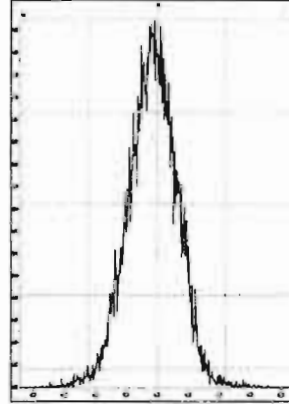
M 416.9760 R 14287



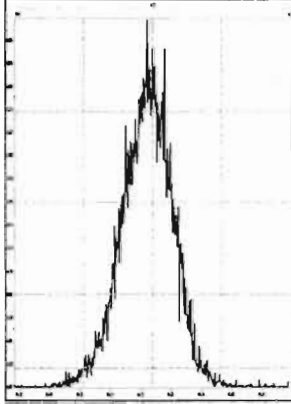
M 430.9728 R 12689



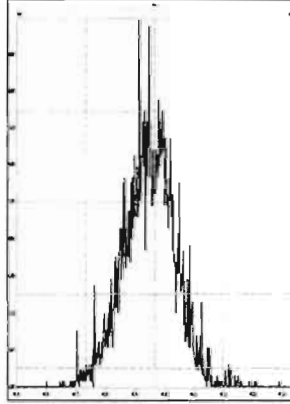
M 442.9728 R 13370



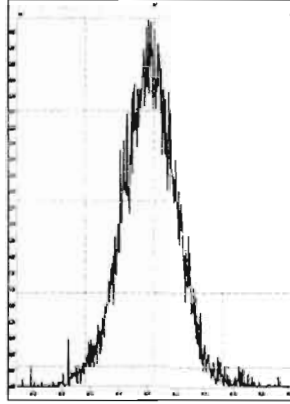
M 454.9728 R 12318



M 466.9728 R 12501



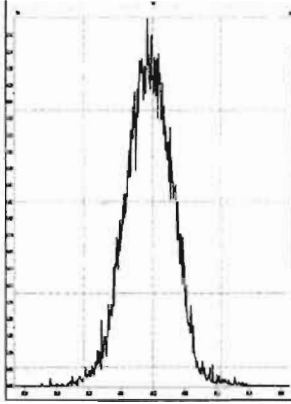
M 480.9696 R 11573



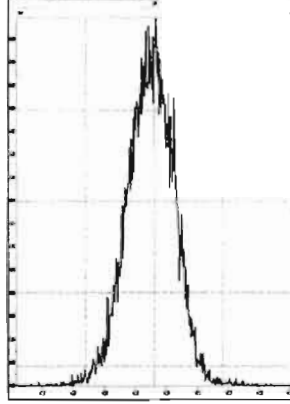
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, November 24, 2020 11:12:10 Pacific Standard Time

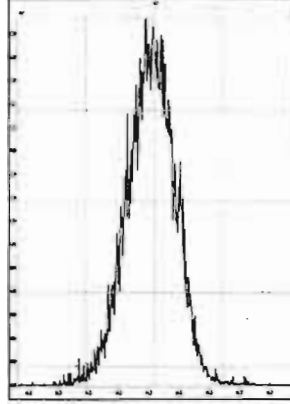
M 430.9728 R 13158



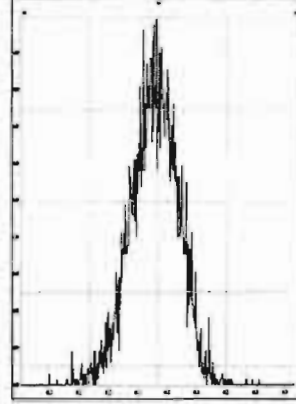
M 442.9728 R 12884



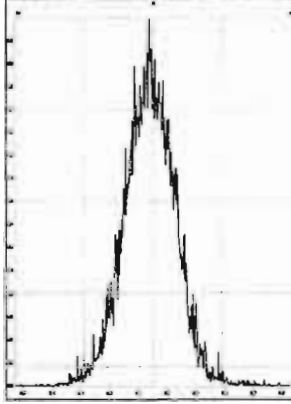
M 454.9728 R 12820



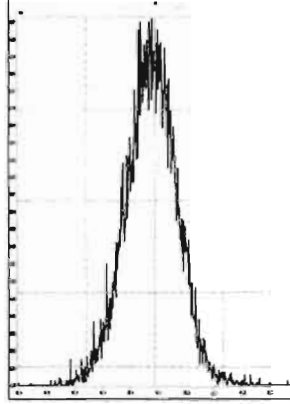
M 466.9728 R 13738



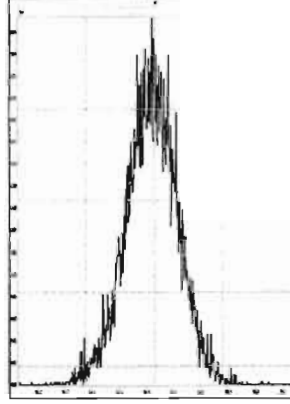
M 480.9696 R 11905



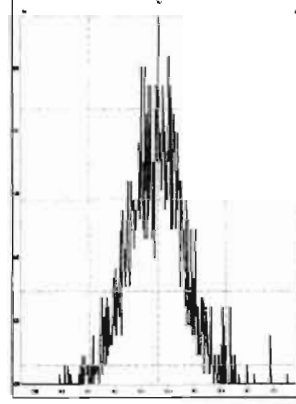
M 492.9696 R 11630



M 504.9696 R 12019



M 516.9697 R 12628



Dataset: Untitled

Last Altered: Wednesday, November 25, 2020 06:59:08 Pacific Standard Time
Printed: Wednesday, November 25, 2020 06:59:21 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: 201124R1_1, Date: 24-Nov-2020, Time: 11:13:12, ID: ST201124R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.27
2	2 1,2,8,9-TCDD (Last)	26.98
3	3 1,2,4,7,9-PeCDD (First)	28.55
4	4 1,2,3,8,9-PeCDD (Last)	31.17
5	5 1,2,4,6,7,9-HxCDD (First)	32.50
6	6 1,2,3,7,8,9-HxCDD (Last)	34.53
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.99
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.02
9	9 1,3,6,8-TCDF (First)	20.04
10	10 1,2,8,9-TCDF (Last)	27.31
11	11 1,3,4,6,8-PeCDF (First)	26.88
12	12 1,2,3,8,9-PeCDF (Last)	31.54
13	13 1,2,3,4,6,8-HxCDF (First)	31.96
14	14 1,2,3,7,8,9-HxCDF (Last)	35.02
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.60
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.65

Dataset: Untitled

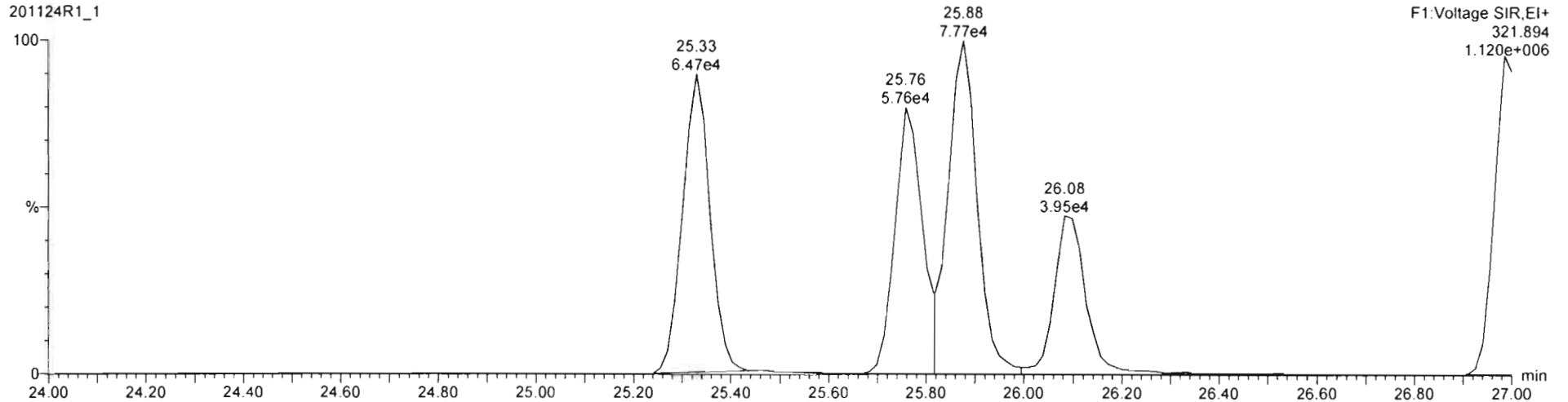
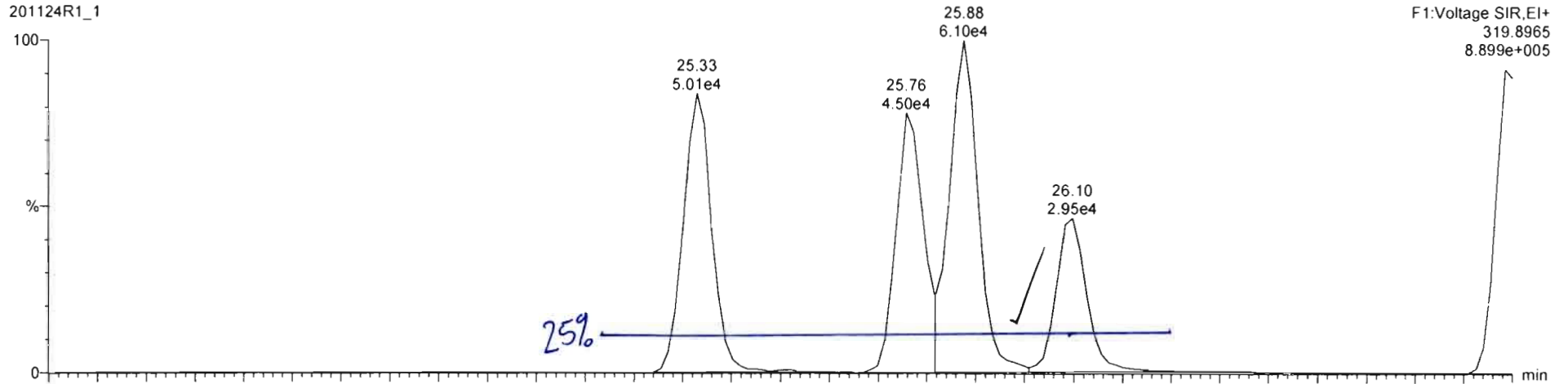
Last Altered: Wednesday, November 25, 2020 06:59:08 Pacific Standard Time
Printed: Wednesday, November 25, 2020 06:59:21 Pacific Standard Time

GRB 11/25/2020
Hr 11-25-2020

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: 201124R1_1, Date: 24-Nov-2020, Time: 11:13:12, ID: ST201124R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

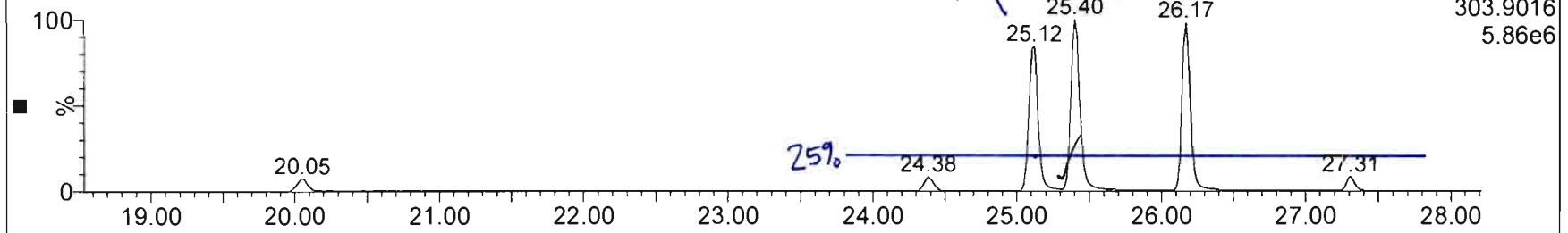
1,3,6,8-TCDD (First)
201124R1_1



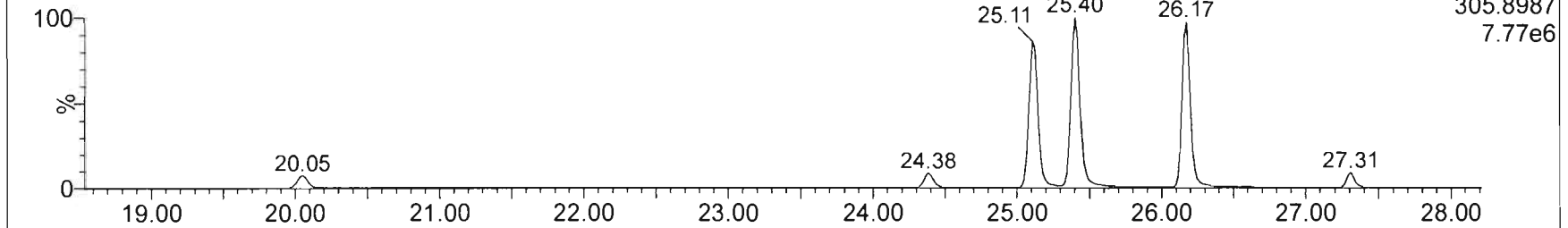
GPB 11/25/2020
H 11.26.20

TCDF CPSM QC

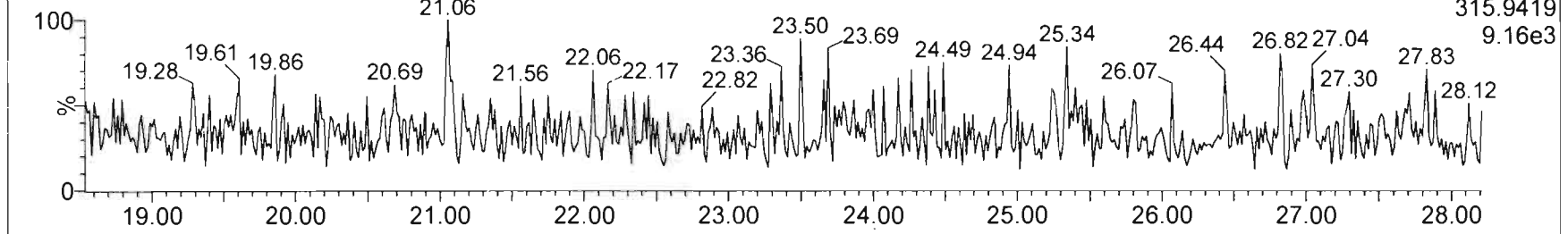
201124R1_2



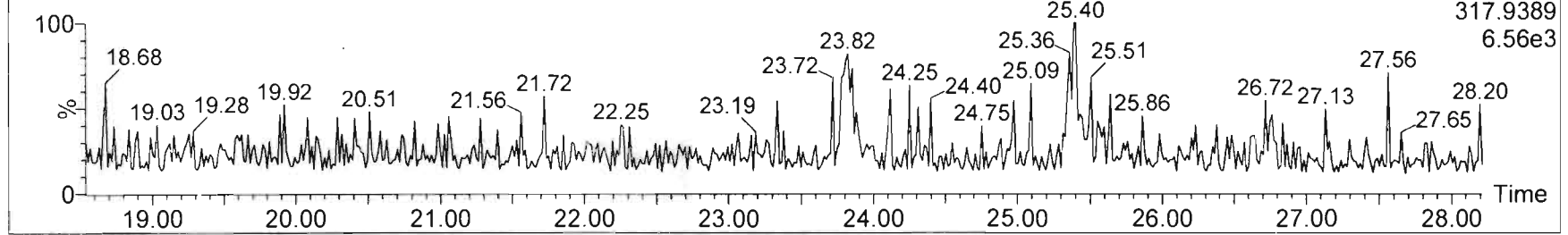
201124R1_2



201124R1_2



201124R1_2



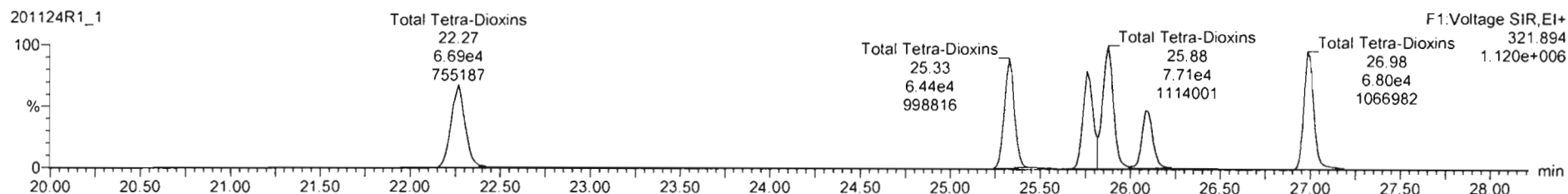
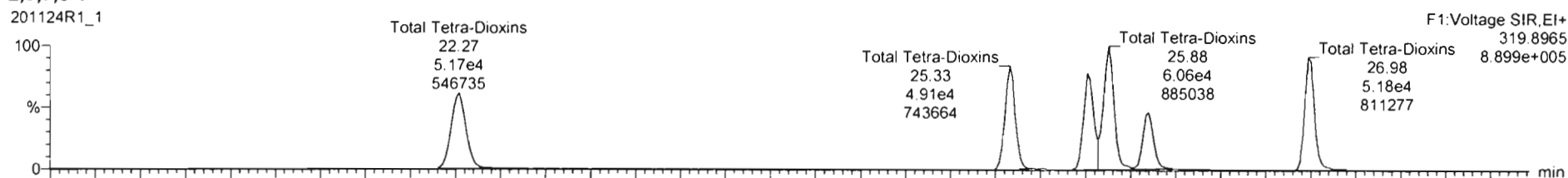
Dataset: Untitled

Last Altered: Wednesday, November 25, 2020 06:59:43 Pacific Standard Time
Printed: Wednesday, November 25, 2020 06:59:46 Pacific Standard Time

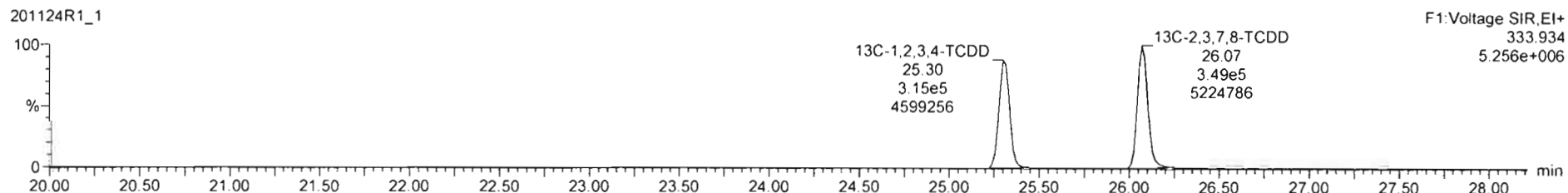
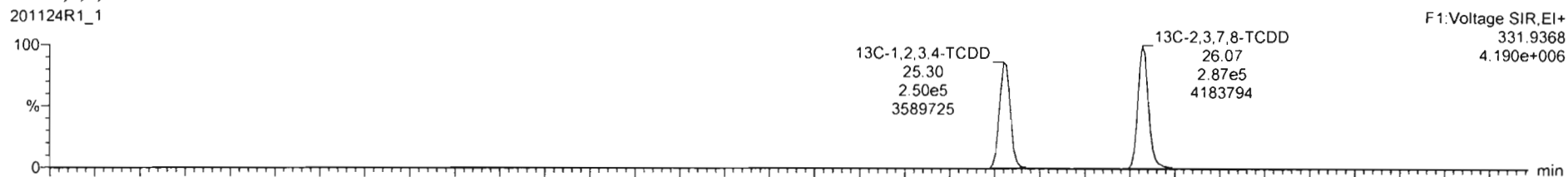
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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201124R1_1, Date: 24-Nov-2020, Time: 11:13:12, ID: ST201124R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

2,3,7,8-TCDD



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



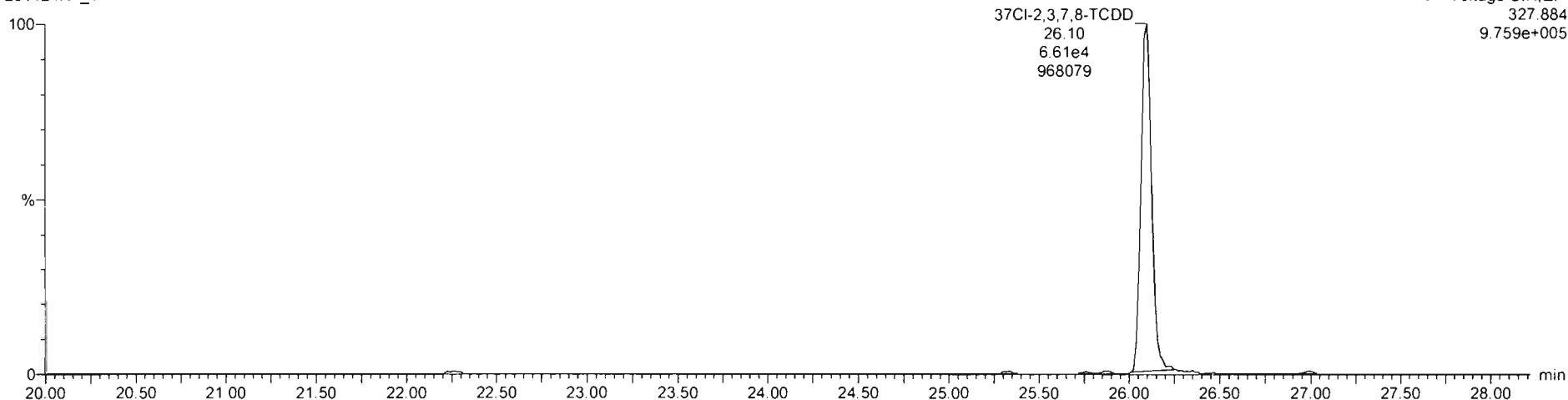
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Last Altered: Wednesday, November 25, 2020 06:59:43 Pacific Standard Time
Printed: Wednesday, November 25, 2020 06:59:46 Pacific Standard Time

Name: 201124R1_1, Date: 24-Nov-2020, Time: 11:13:12, ID: ST201124R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

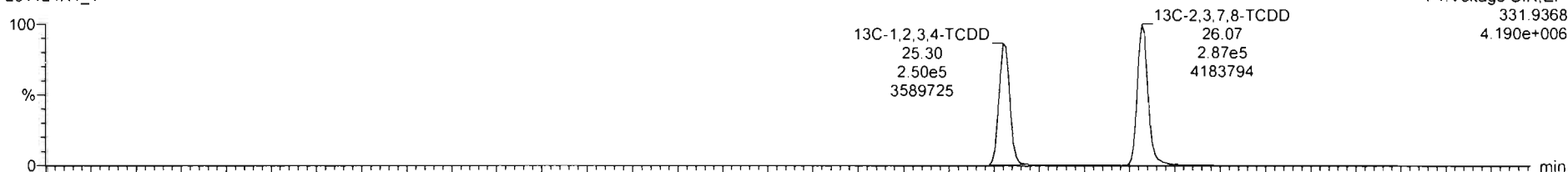
37Cl-2,3,7,8-TCDD

201124R1_1

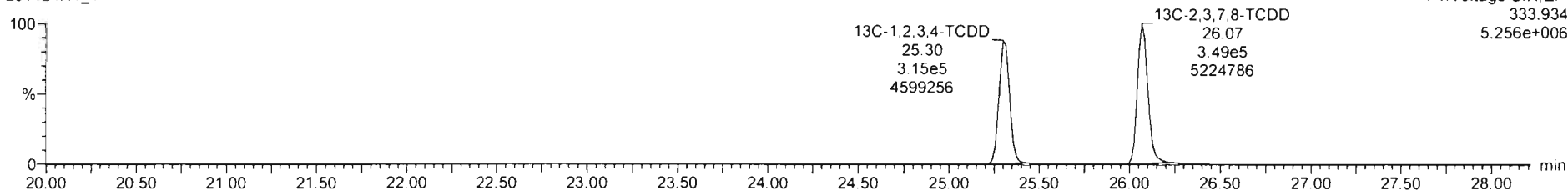


13C-1,2,3,4-TCDD

201124R1_1



201124R1_1



Dataset: Untitled

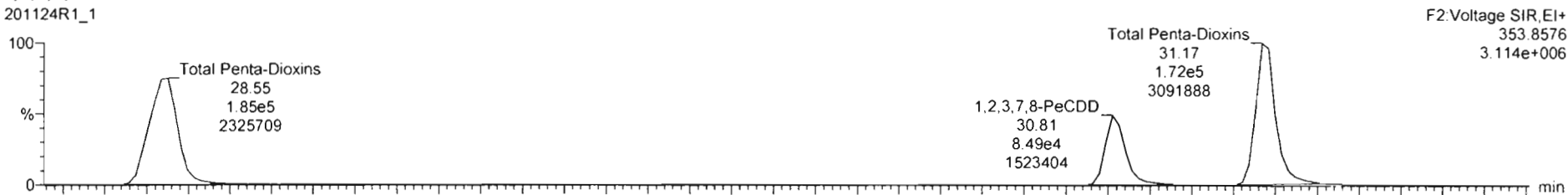
Last Altered: Wednesday, November 25, 2020 06:59:43 Pacific Standard Time

Printed: Wednesday, November 25, 2020 06:59:46 Pacific Standard Time

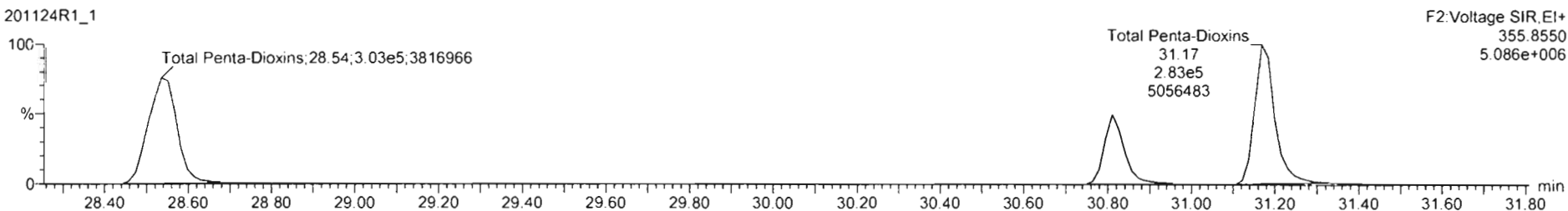
Name: 201124R1_1, Date: 24-Nov-2020, Time: 11:13:12, ID: ST201124R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

1,2,3,7,8-PeCDD

201124R1_1

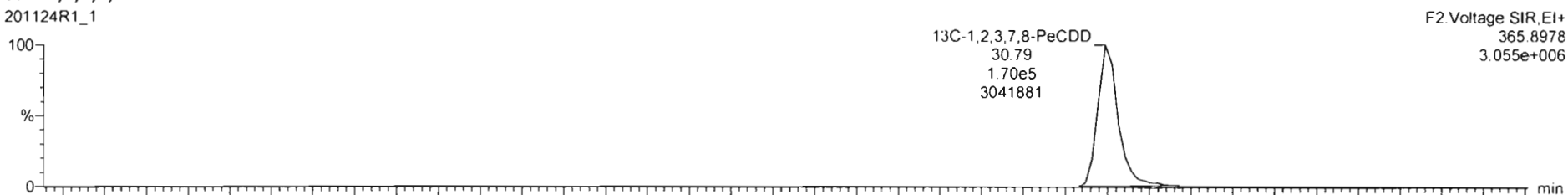


201124R1_1

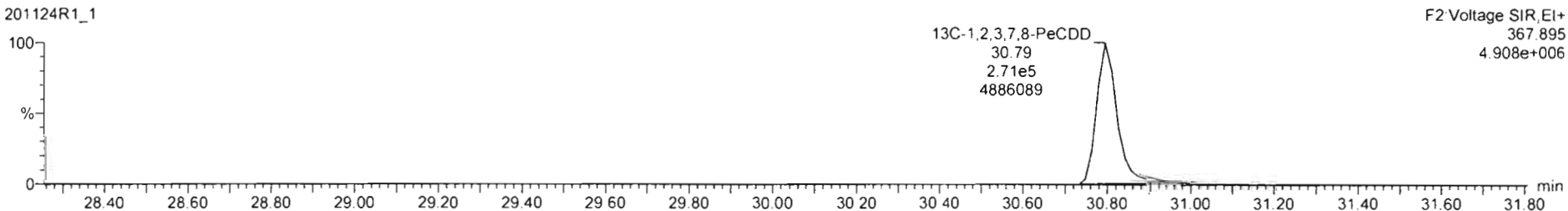


13C-1,2,3,7,8-PeCDD

201124R1_1



201124R1_1



Dataset: Untitled

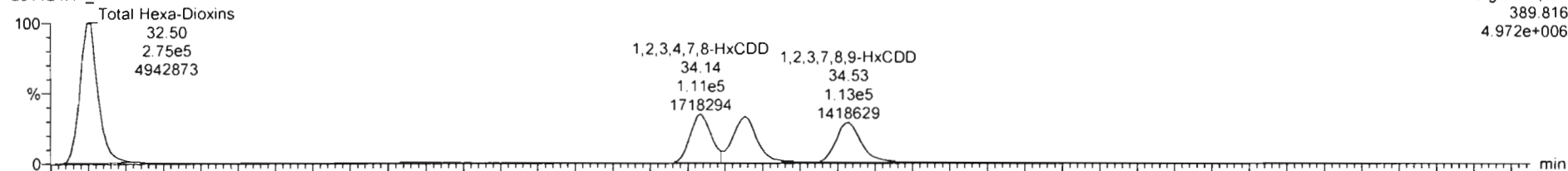
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Printed: Wednesday, November 25, 2020 06:59:46 Pacific Standard Time

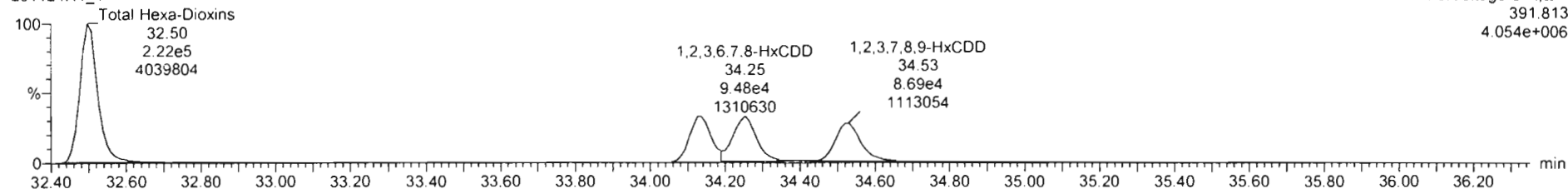
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1,2,3,4,7,8-HxCDD

201124R1_1

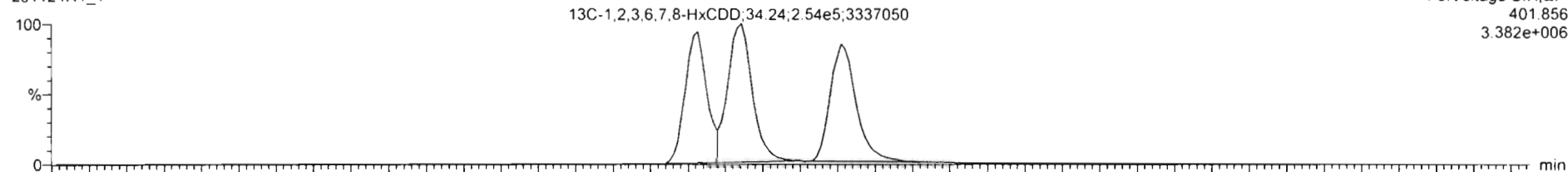


201124R1_1

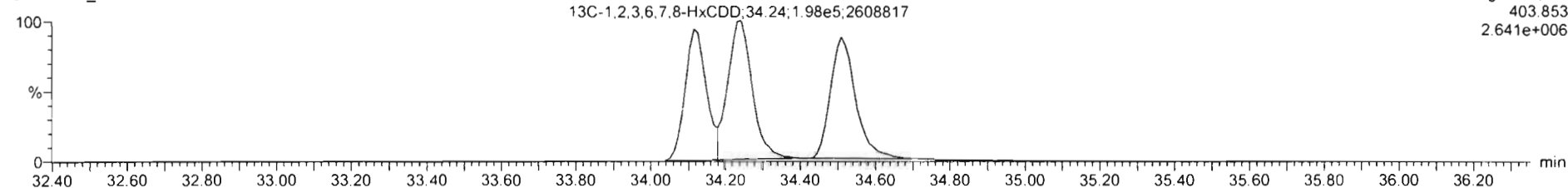


13C-1,2,3,4,7,8-HxCDD

201124R1_1



201124R1_1



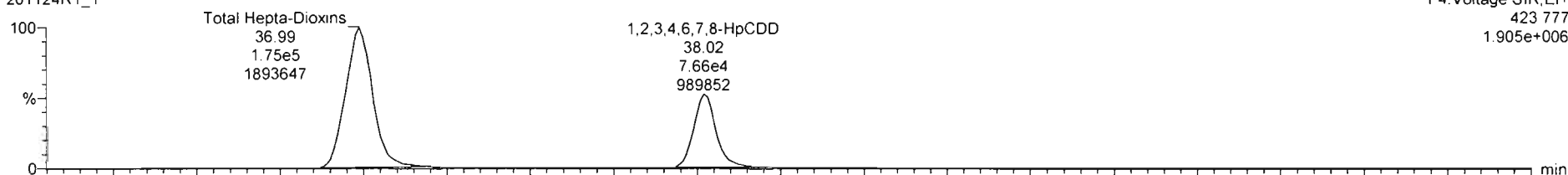
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Last Altered: Wednesday, November 25, 2020 06:59:43 Pacific Standard Time
Printed: Wednesday, November 25, 2020 06:59:46 Pacific Standard Time

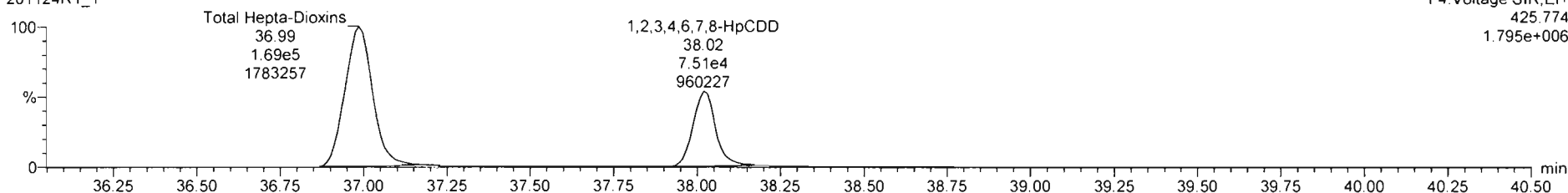
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1,2,3,4,6,7,8-HpCDD

201124R1_1

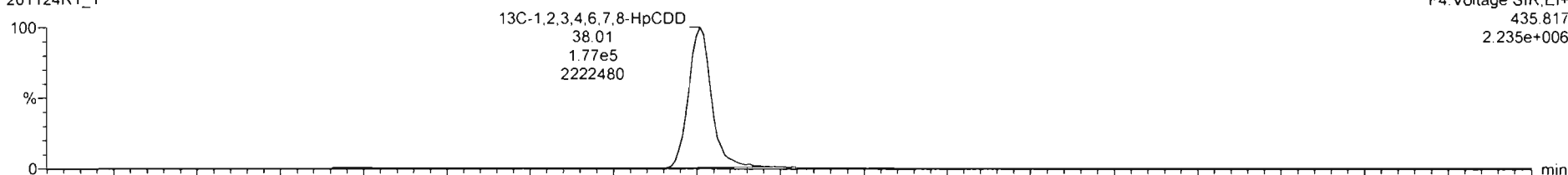


201124R1_1

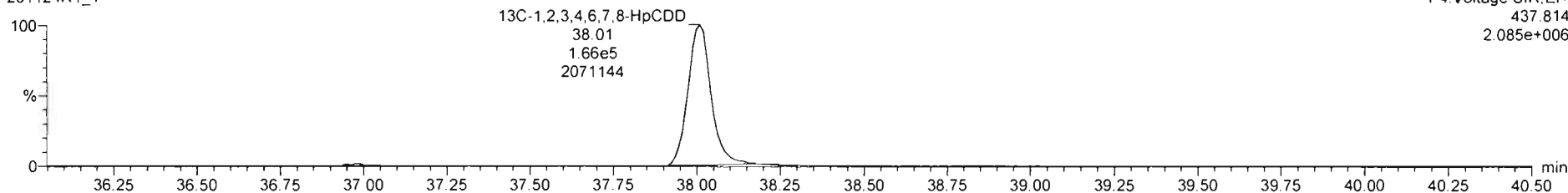


13C-1,2,3,4,6,7,8-HpCDD

201124R1_1



201124R1_1



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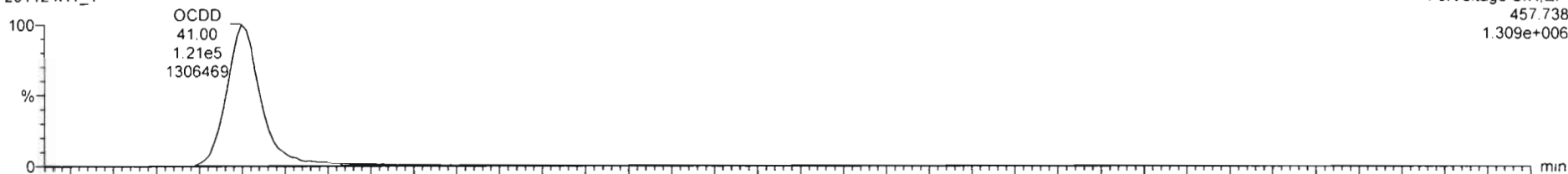
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Printed: Wednesday, November 25, 2020 06:59:46 Pacific Standard Time

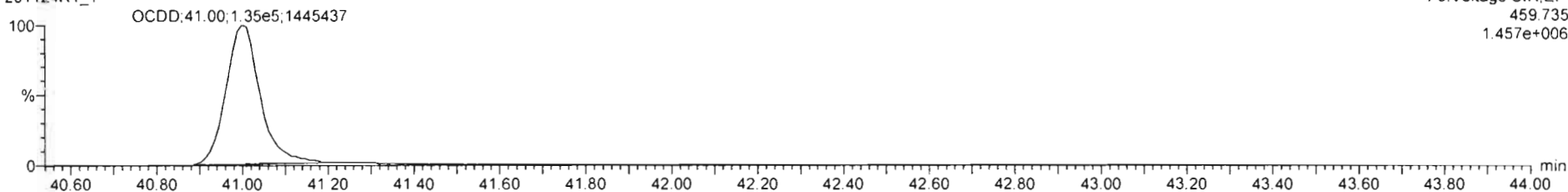
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OCDD

201124R1_1

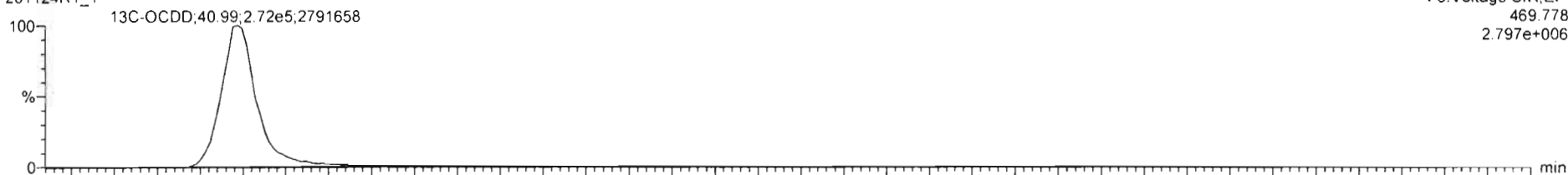


201124R1_1

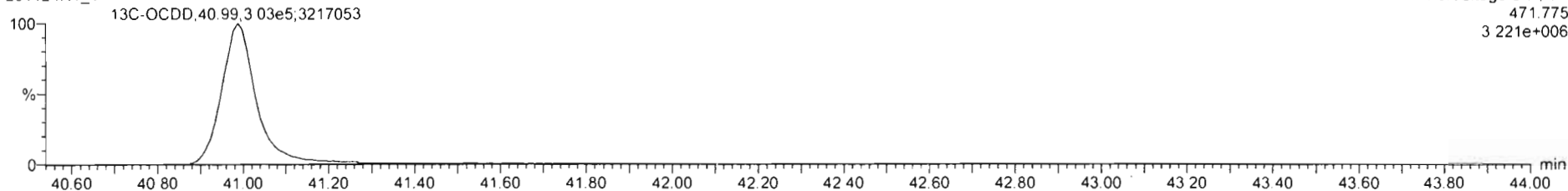


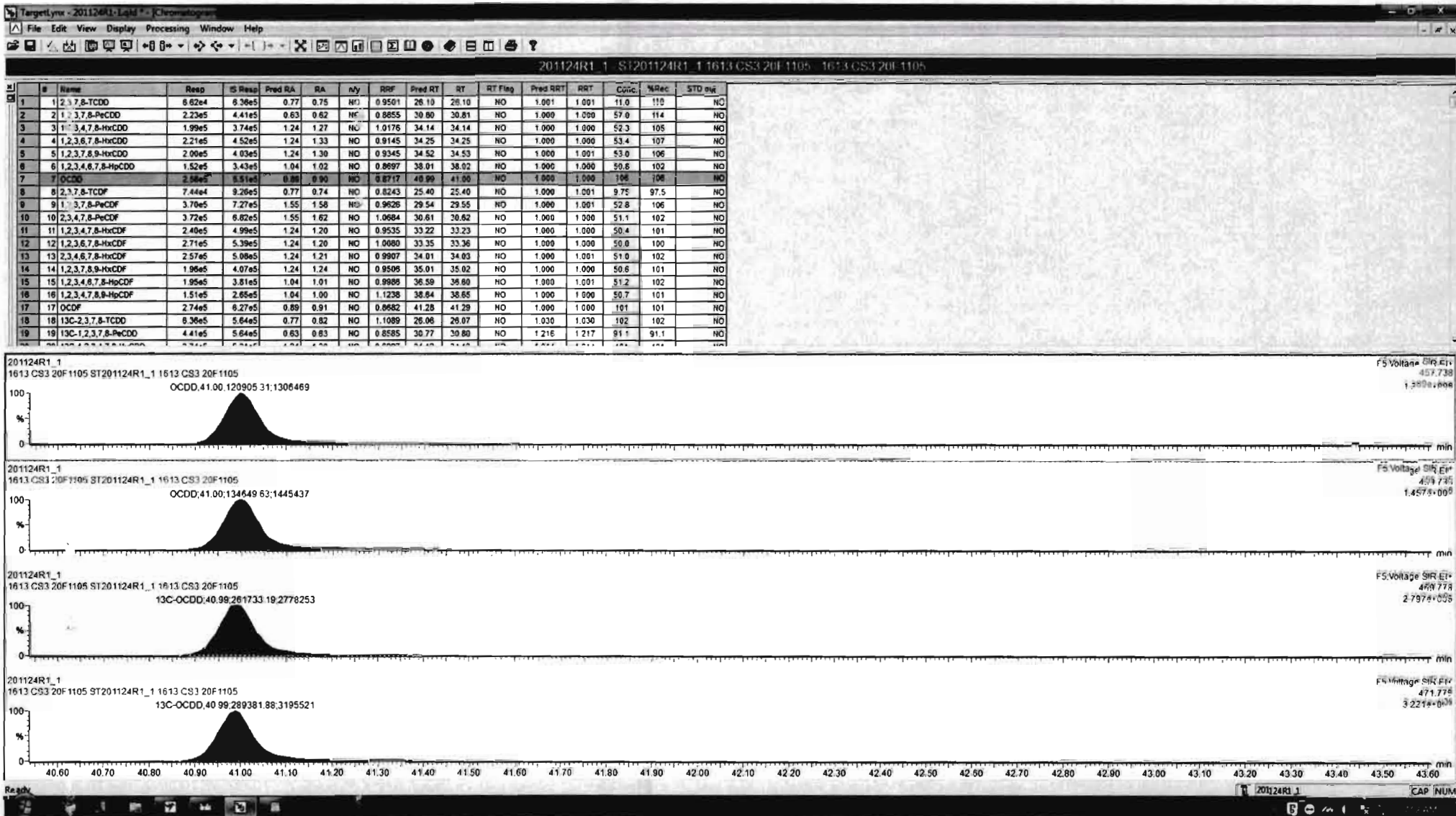
13C-OCDD

201124R1_1



201124R1_1



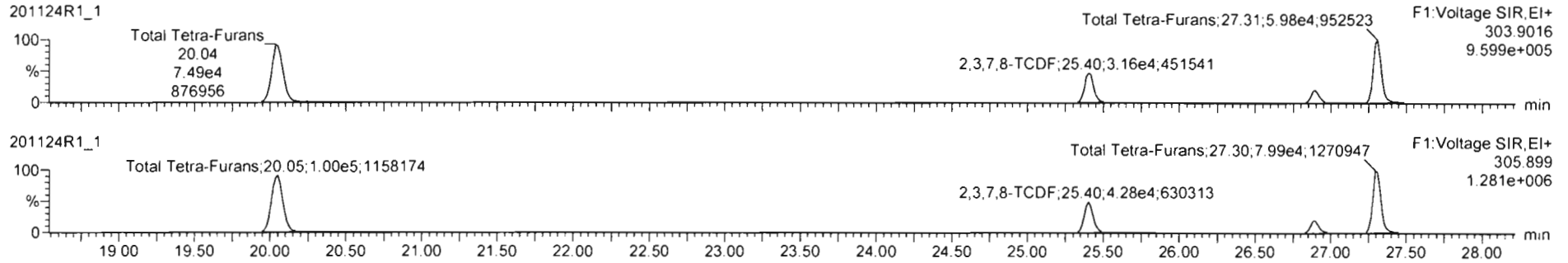


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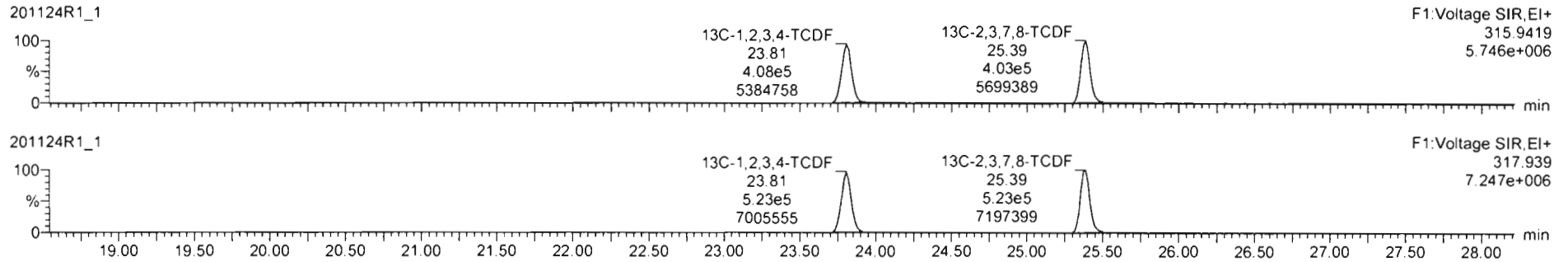
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Printed: Wednesday, November 25, 2020 06:59:46 Pacific Standard Time

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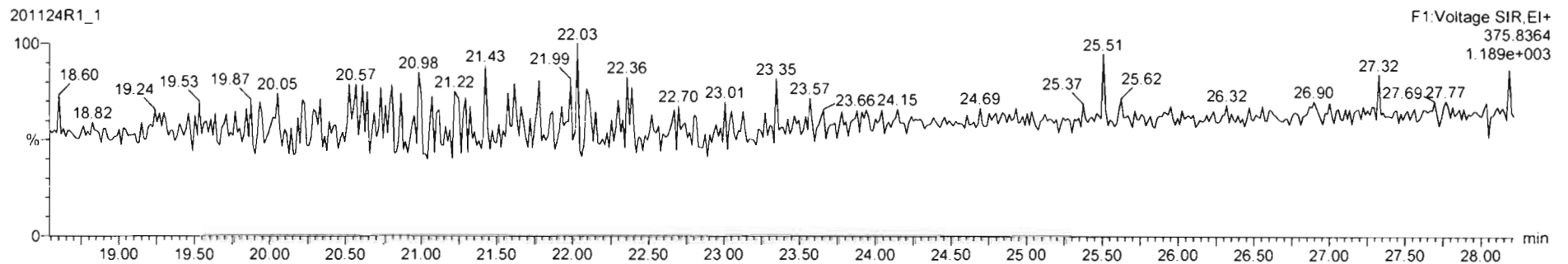
2,3,7,8-TCDF



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



DPE1



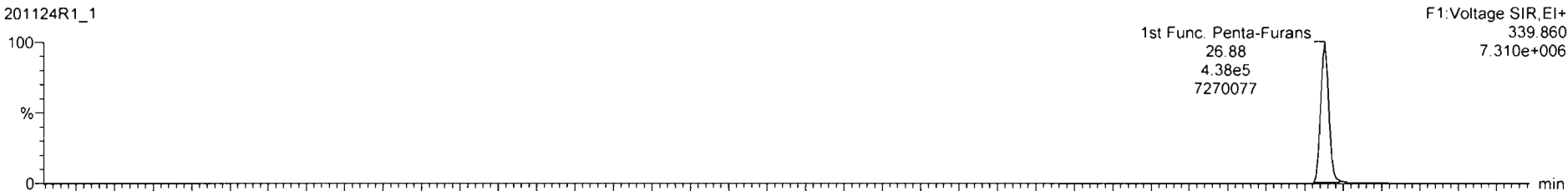
Dataset: Untitled

Last Altered: Wednesday, November 25, 2020 06:59:43 Pacific Standard Time
Printed: Wednesday, November 25, 2020 06:59:46 Pacific Standard Time

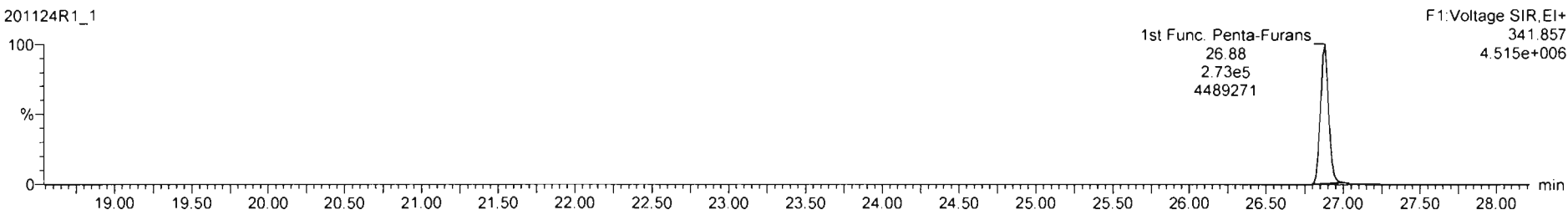
Name: 201124R1_1, Date: 24-Nov-2020, Time: 11:13:12, ID: ST201124R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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201124R1_1

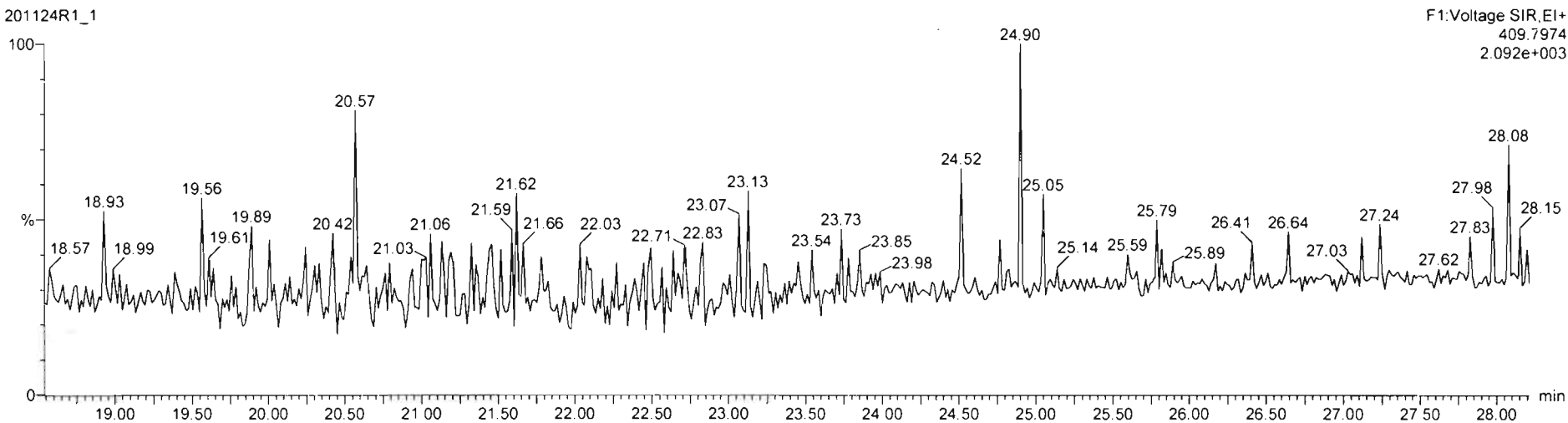


201124R1_1



DPE6

201124R1_1

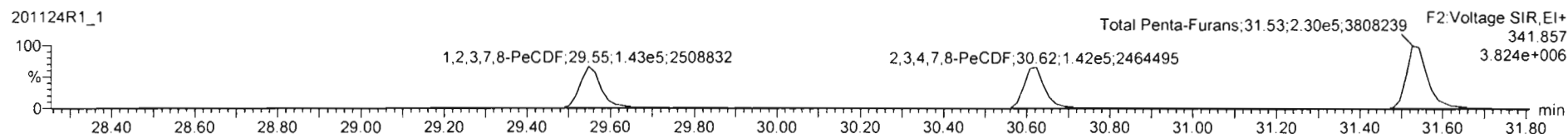
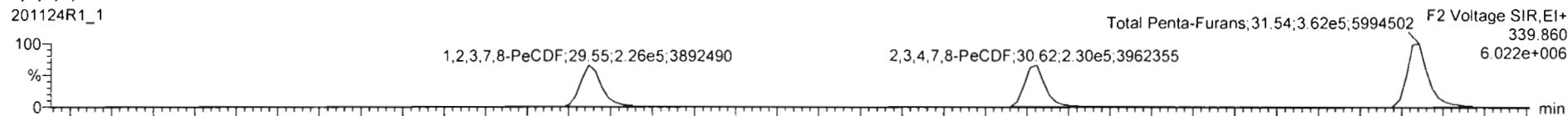


Dataset: Untitled

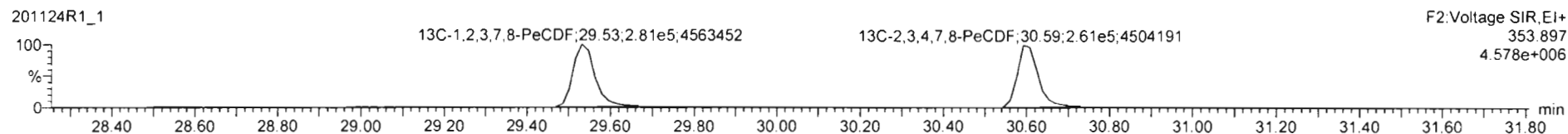
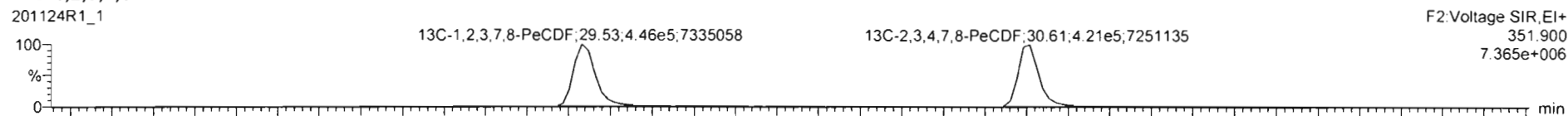
Last Altered: Wednesday, November 25, 2020 06:59:43 Pacific Standard Time
Printed: Wednesday, November 25, 2020 06:59:46 Pacific Standard Time

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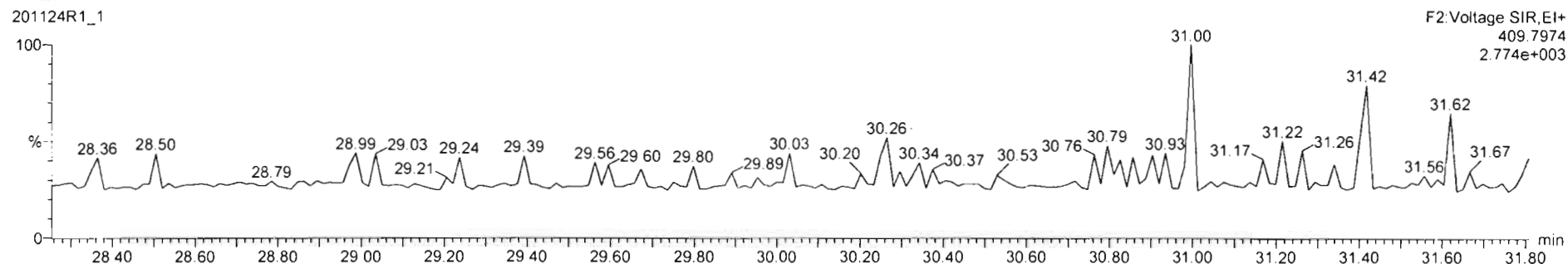
1,2,3,7,8-PeCDF



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



DPE2

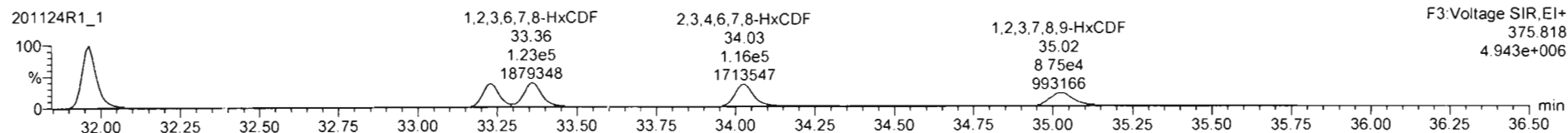
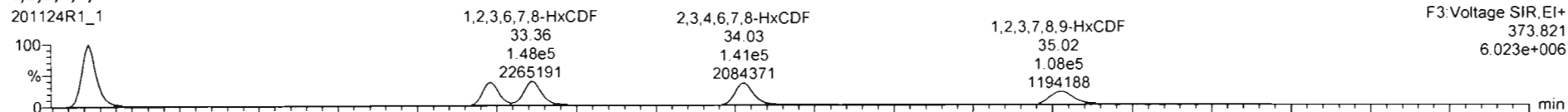


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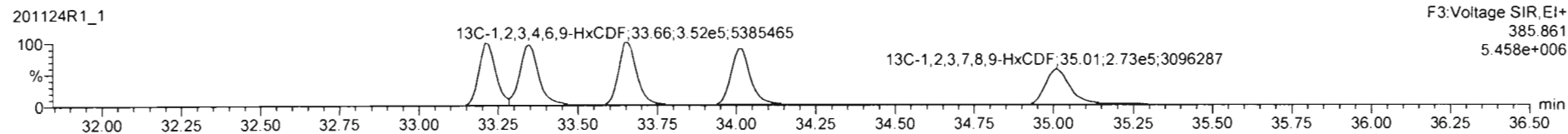
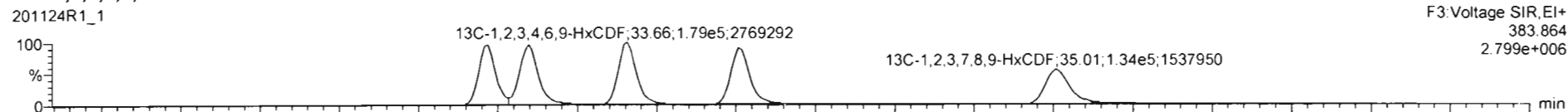
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Printed: Wednesday, November 25, 2020 06:59:46 Pacific Standard Time

Name: 201124R1_1, Date: 24-Nov-2020, Time: 11:13:12, ID: ST201124R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

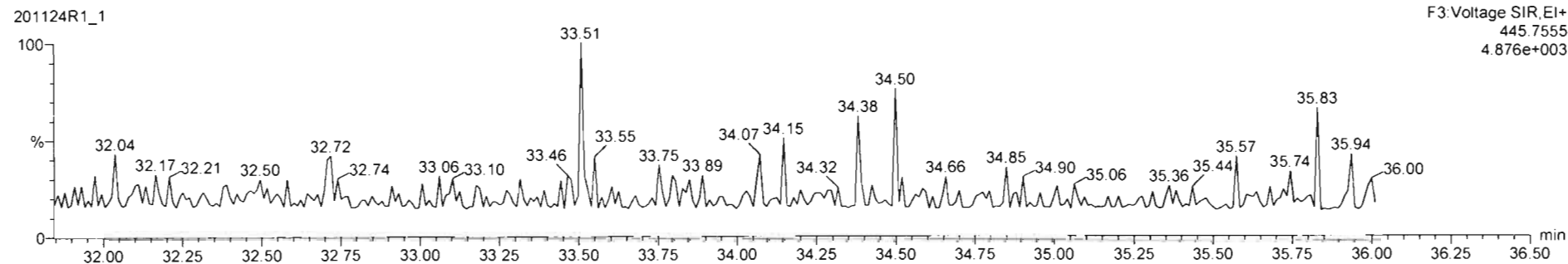
1,2,3,4,7,8-HxCDF



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



DPE3



Dataset: Untitled

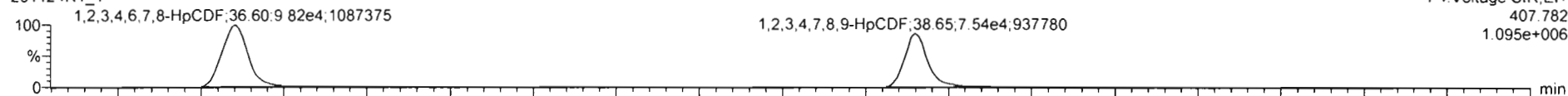
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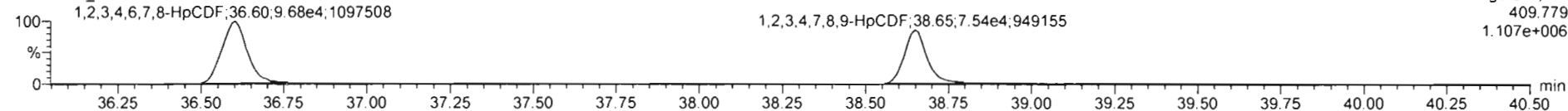
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1,2,3,4,6,7,8-HpCDF

201124R1_1

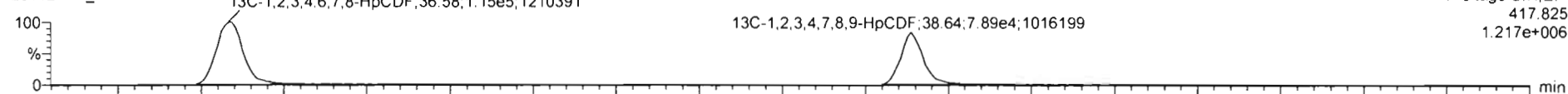


201124R1_1

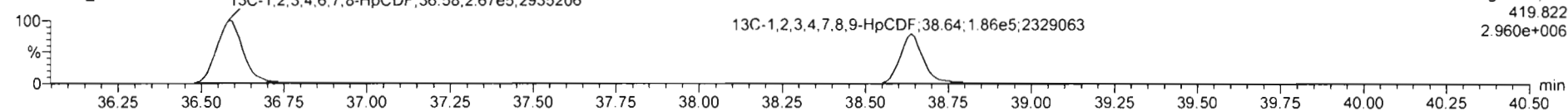


13C-1,2,3,4,6,7,8-HpCDF

201124R1_1

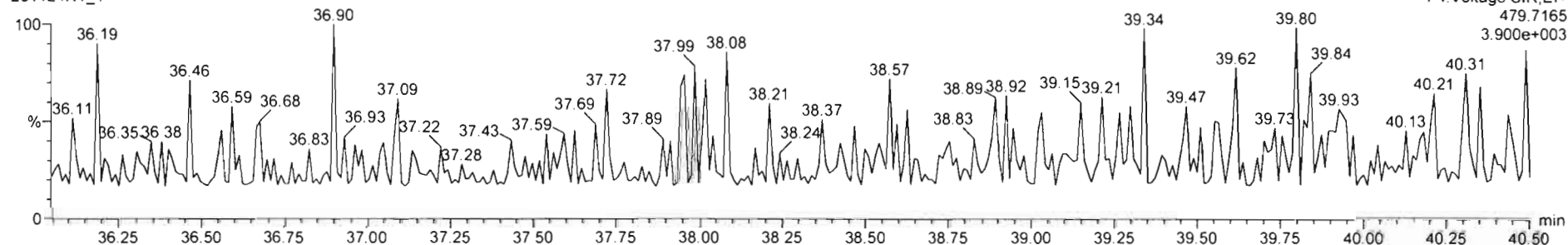


201124R1_1



DPE4

201124R1_1



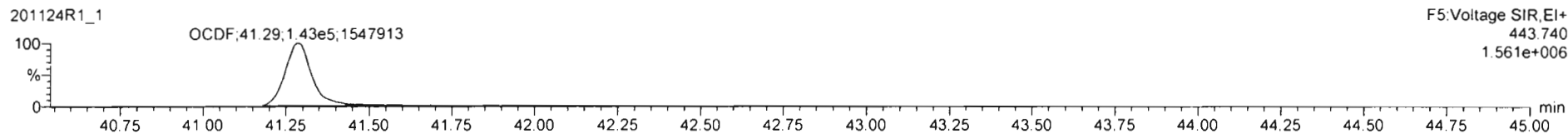
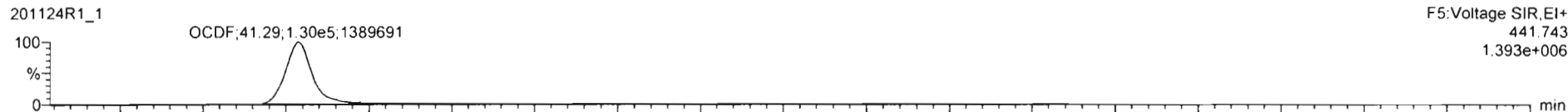
Dataset: Untitled

Last Altered: Wednesday, November 25, 2020 06:59:43 Pacific Standard Time

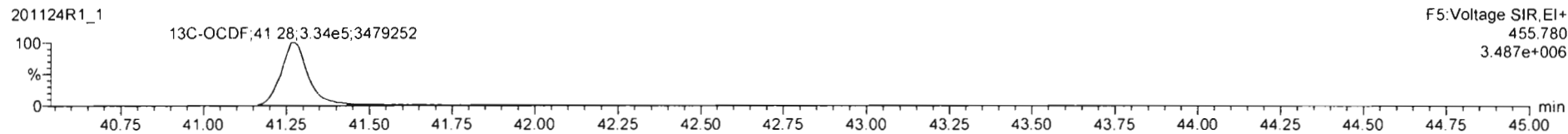
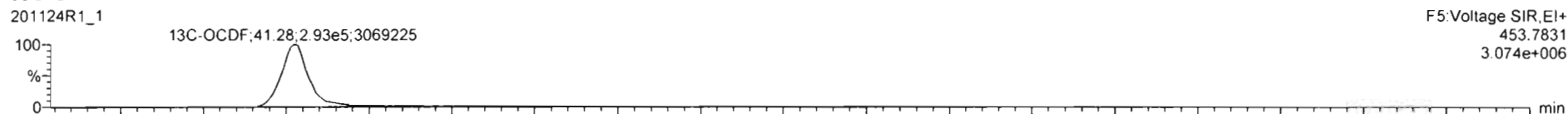
Printed: Wednesday, November 25, 2020 06:59:46 Pacific Standard Time

Name: 201124R1_1, Date: 24-Nov-2020, Time: 11:13:12, ID: ST201124R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

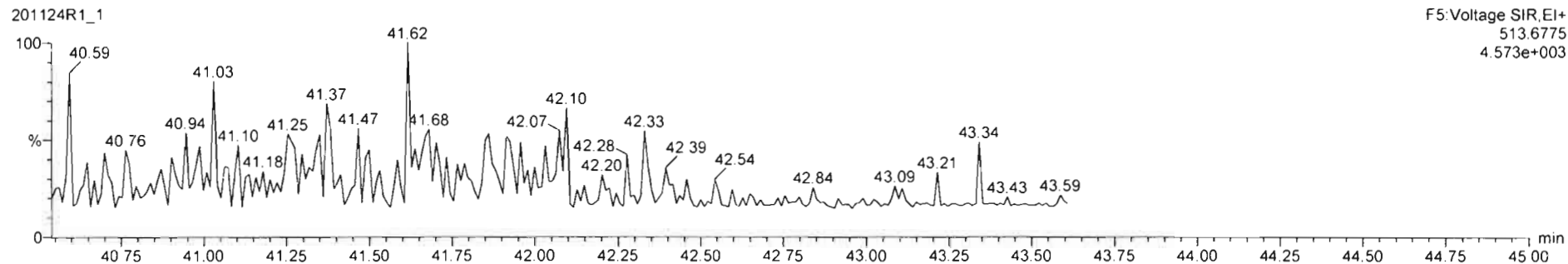
OCDF

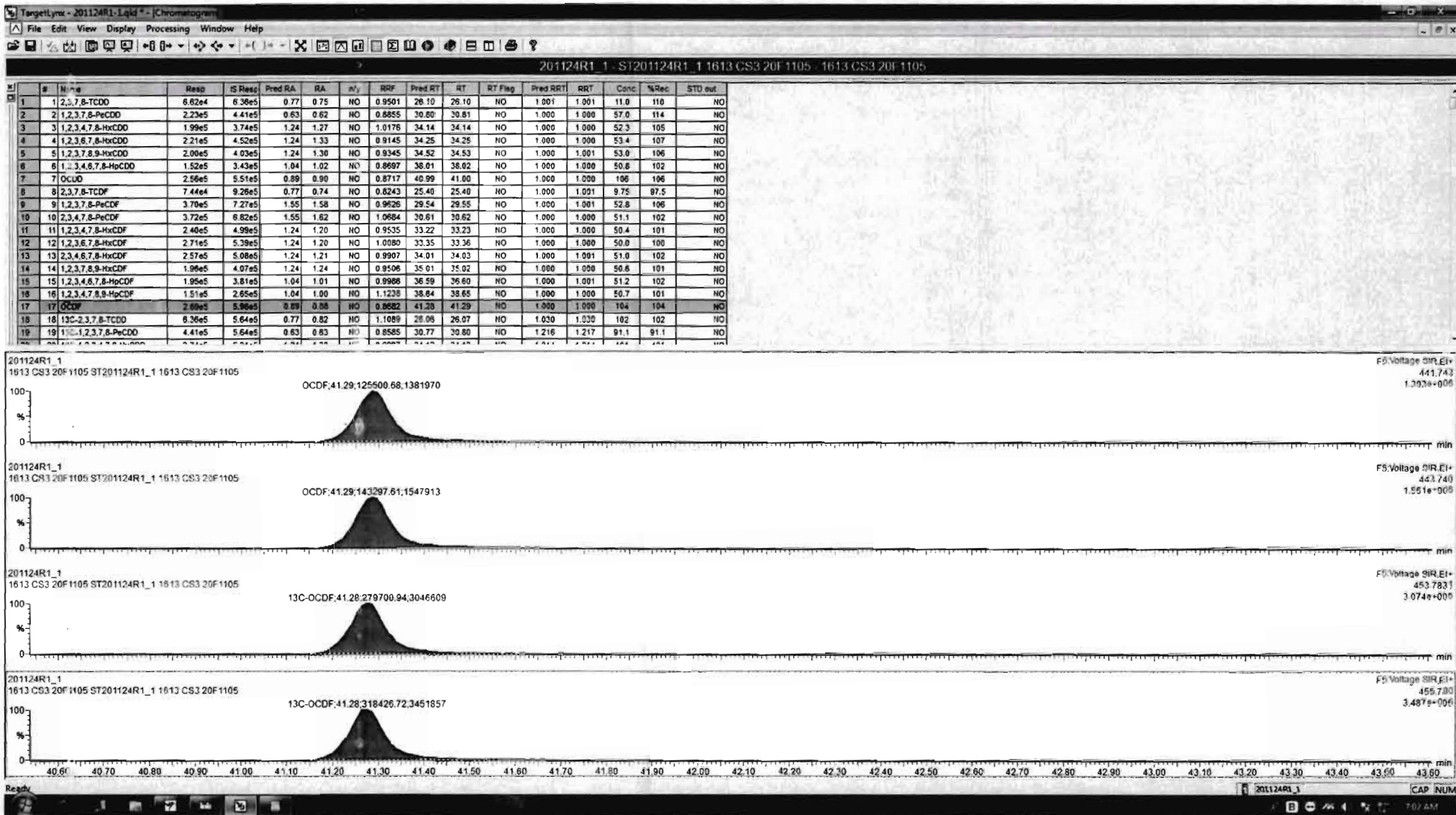


13C-OCDF



DPE5



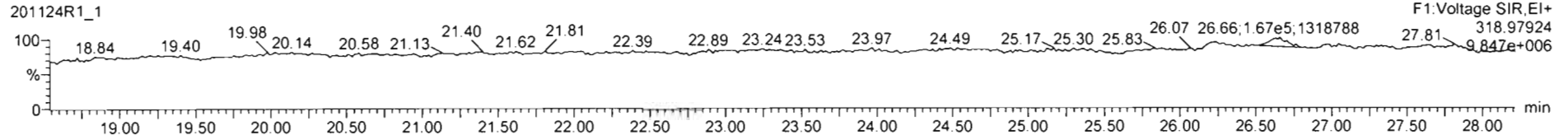


Dataset: Untitled

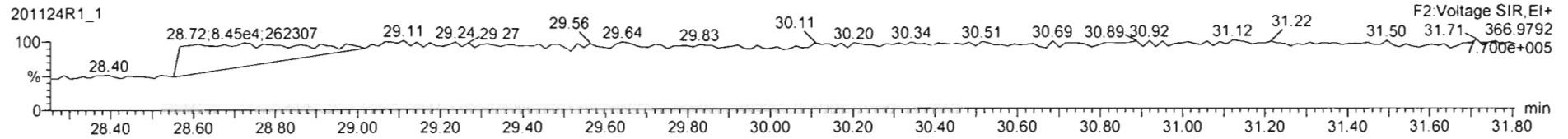
Last Altered: Wednesday, November 25, 2020 06:59:43 Pacific Standard Time
Printed: Wednesday, November 25, 2020 06:59:46 Pacific Standard Time

Name: 201124R1_1, Date: 24-Nov-2020, Time: 11:13:12, ID: ST201124R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

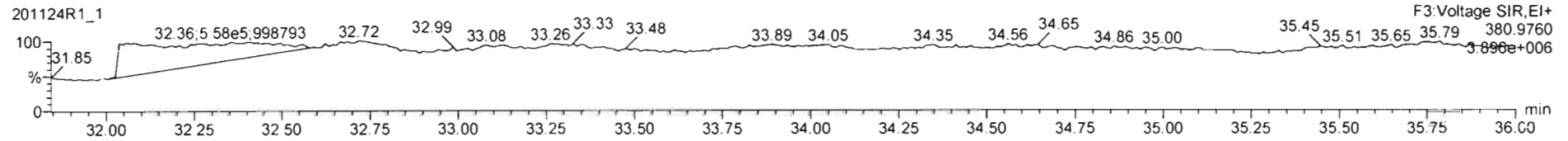
PFK1



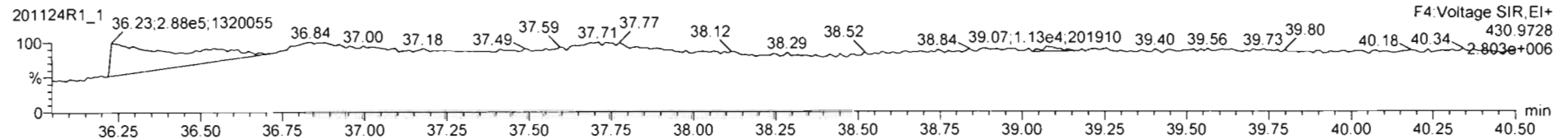
PFK2



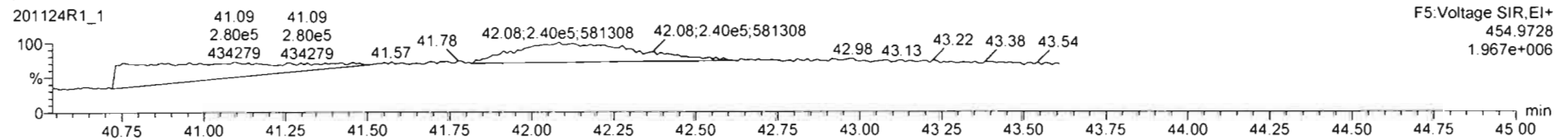
PFK3



PFK4



PFK5



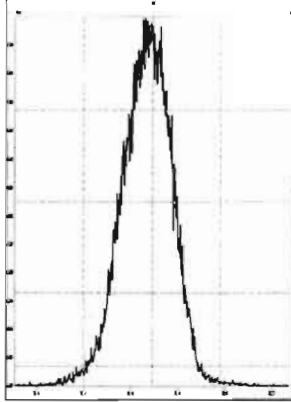
Experiment Calibration Report

MassLynx 4.1 SCN815

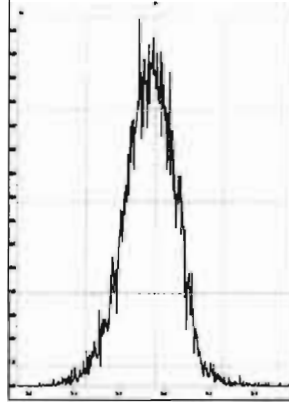
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 07:22:51 Pacific Standard Time

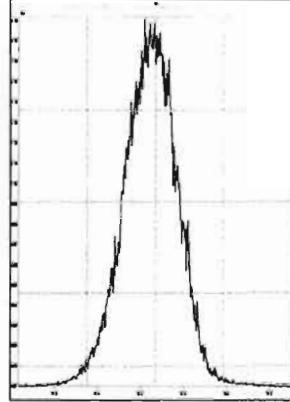
M 292.9824 R 12498



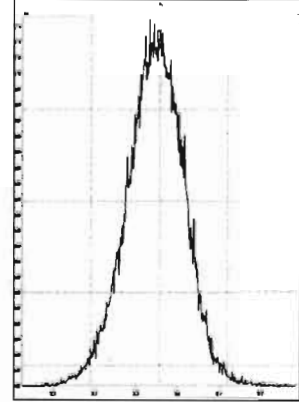
M 304.9824 R 12137



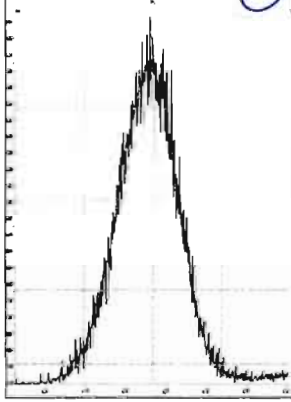
M 318.9792 R 11519



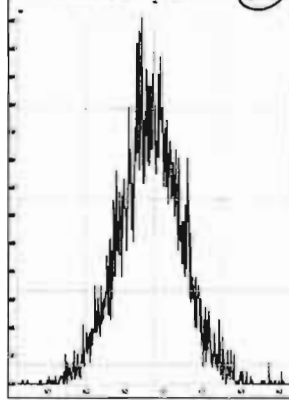
M 330.9792 R 10289



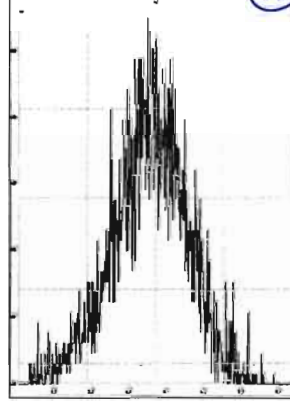
M 342.9792 R 9919 ⊛



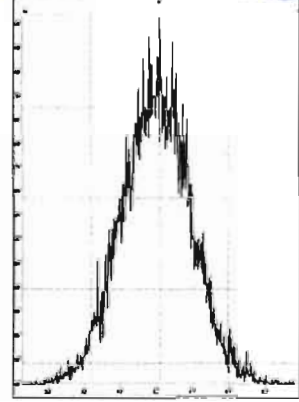
M 354.9792 R 9843 ⊛



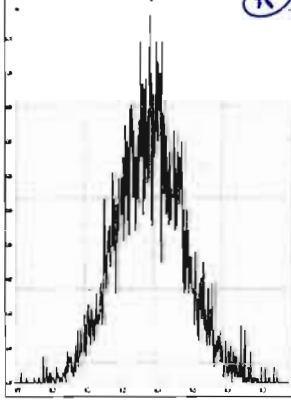
M 366.9792 R 9330 ⊛



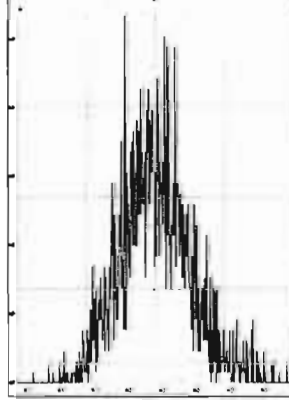
M 380.9760 R 9363 ⊛



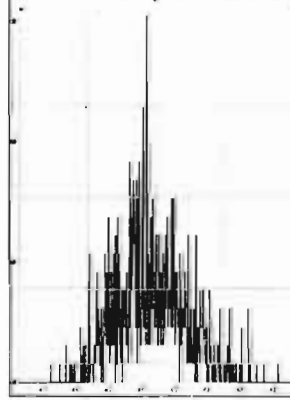
M 392.9760 R 9223 ⊛



M 404.9760 R 11160



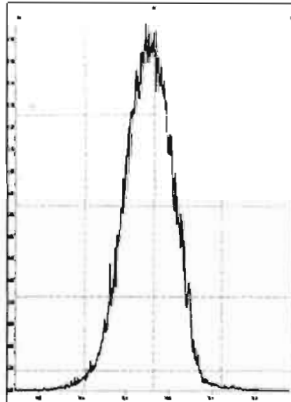
M 416.9760 R 24042



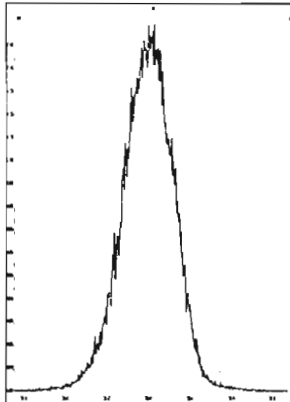
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 07:23:27 Pacific Standard Time

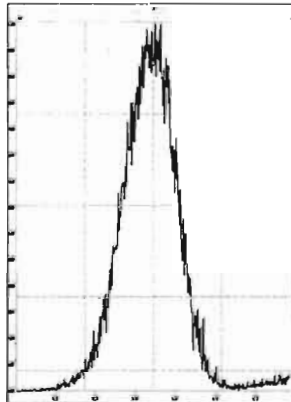
M 318.9792 R 12315



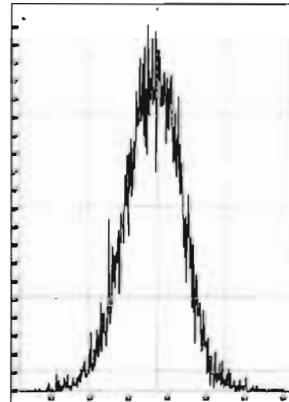
M 330.9792 R 11679



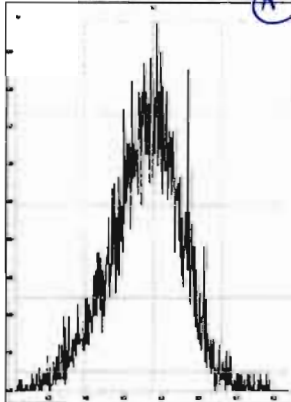
M 342.9792 R 11013



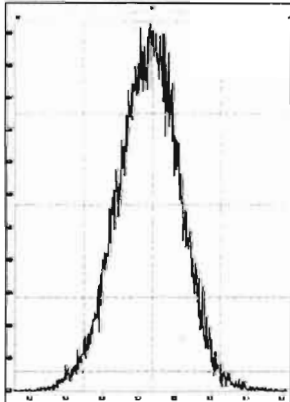
M 354.9792 R 11212



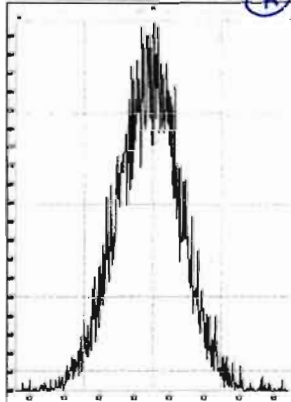
M 366.9792 R 9224



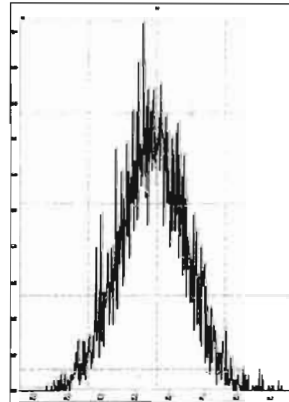
M 380.9760 R 10041



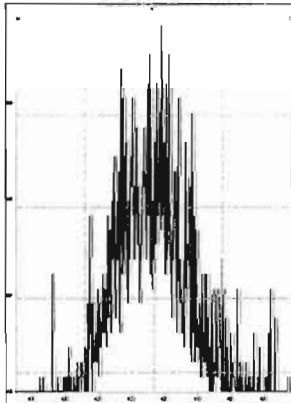
M 392.9760 R 9803



M 404.9760 R 10041



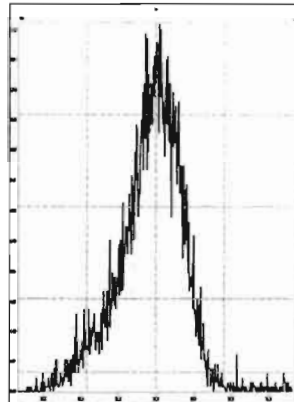
M 416.9760 R 11736



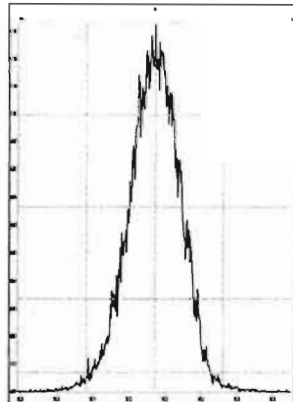
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 07:24:36 Pacific Standard Time

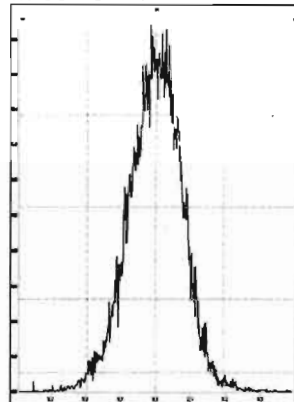
M 366.9792 R 10121



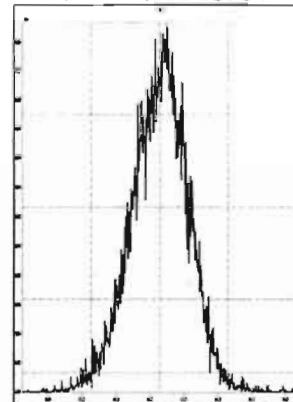
M 380.9760 R 11523



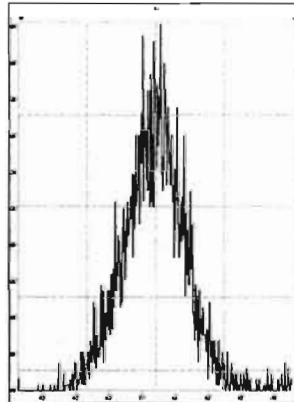
M 392.9760 R 11415



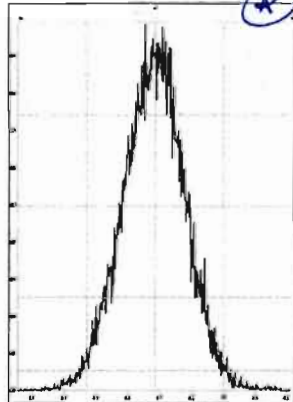
M 404.9760 R 10731



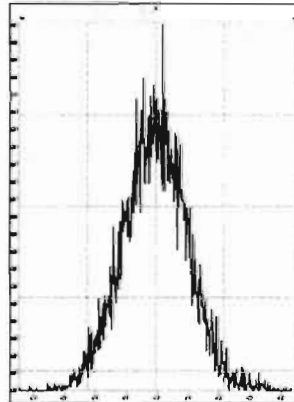
M 416.9760 R 10916



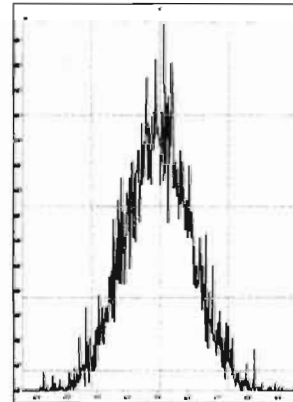
M 430.9728 R 9805



M 442.9728 R 10548



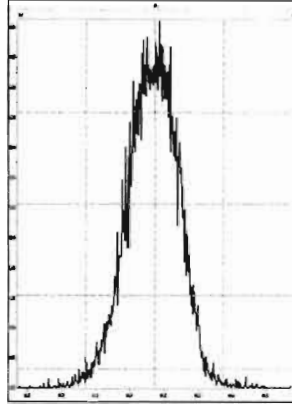
M 454.9728 R 10122



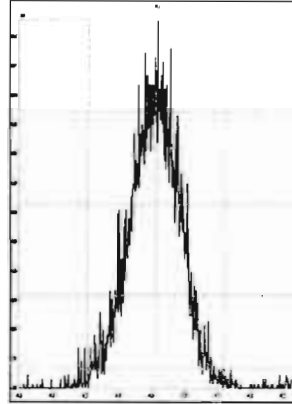
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 07:25:41 Pacific Standard Time

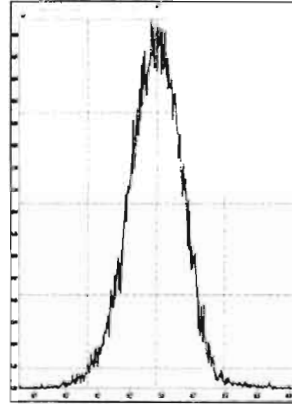
M 404.9760 R 12258



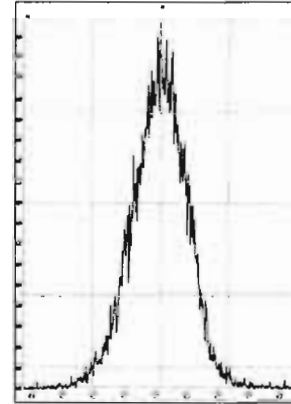
M 416.9760 R 14040



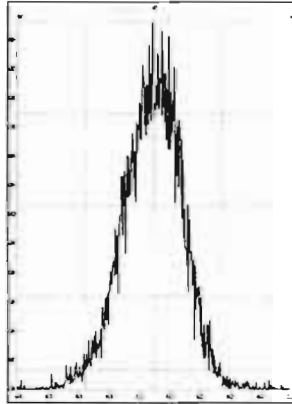
M 430.9728 R 11016



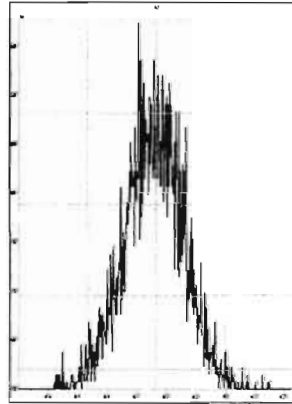
M 442.9728 R 10866



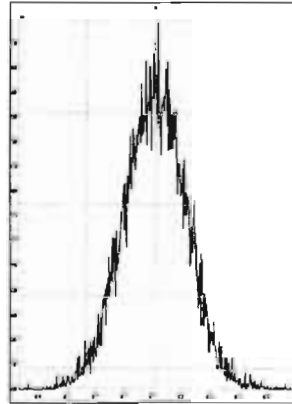
M 454.9728 R 10329



M 466.9728 R 11107



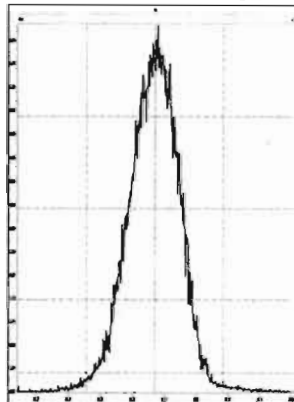
M 480.9696 R 10372



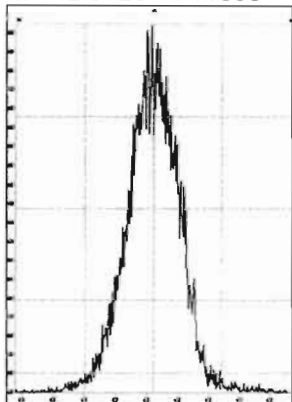
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 07:26:58 Pacific Standard Time

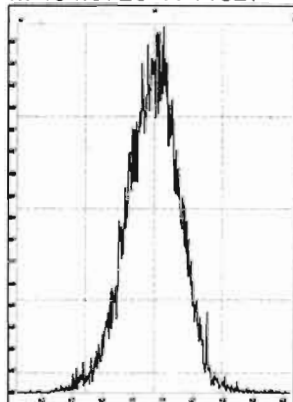
M 430.9728 R 11792



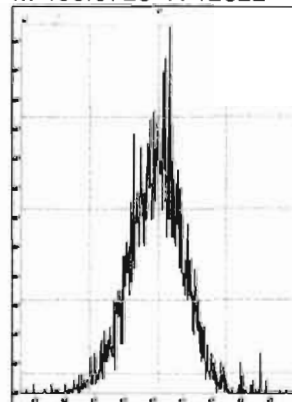
M 442.9728 R 11850



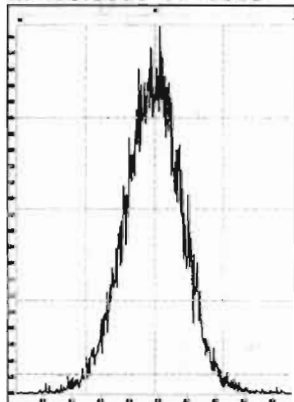
M 454.9728 R 11627



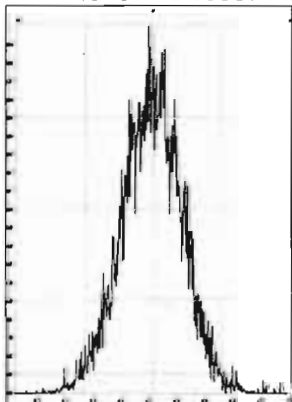
M 466.9728 R 12822



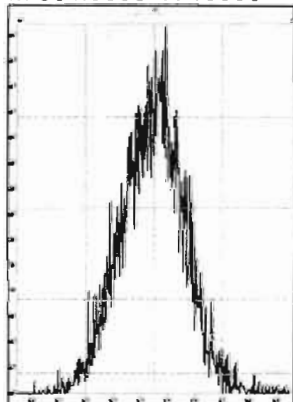
M 480.9696 R 10080



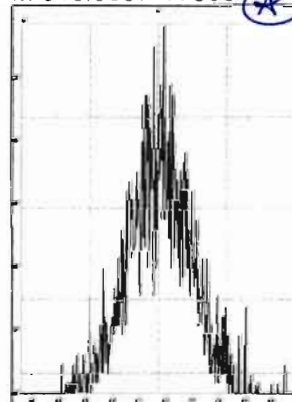
M 492.9696 R 10867



M 504.9696 R 10330



M 516.9697 R 9961



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"/> 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"/>	N
- Bottle position verified?	<u>GPB</u>	<input type="checkbox"/>

Mass resolution ≥

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

Intergrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

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

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

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

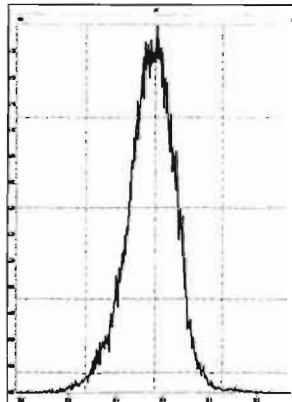
(A) USED TO ADJUST WINDOWS

(B) USED AS CAL FOR RUN

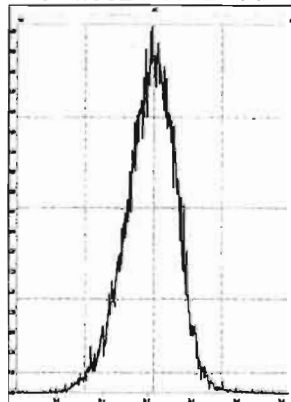
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

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

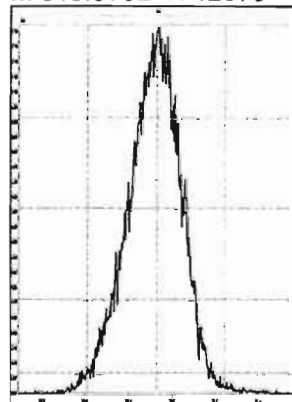
M 292.9824 R 11797



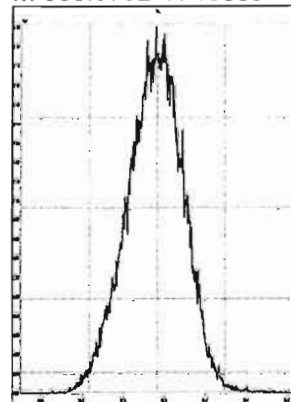
M 304.9824 R 12014



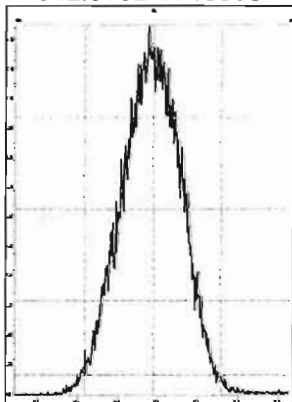
M 318.9792 R 12075



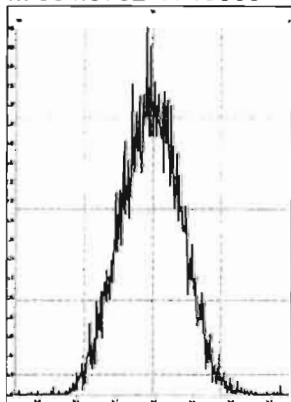
M 330.9792 R 10639



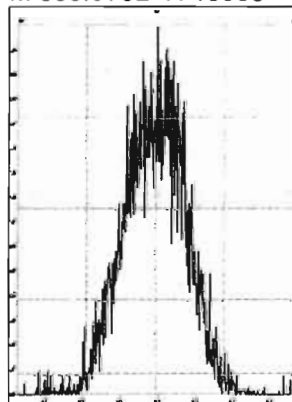
M 342.9792 R 10038



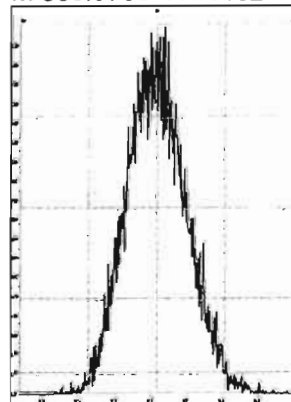
M 354.9792 R 10865



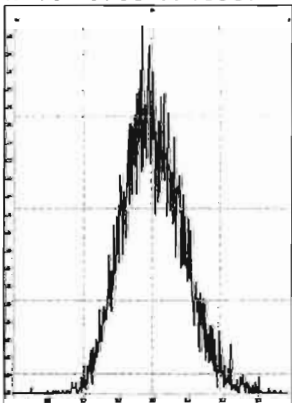
M 366.9792 R 10506



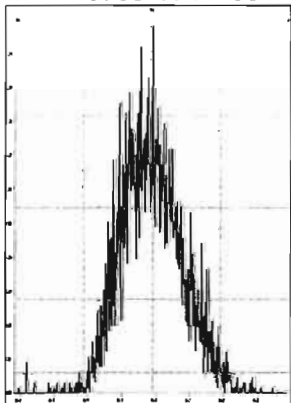
M 380.9760 R 10162



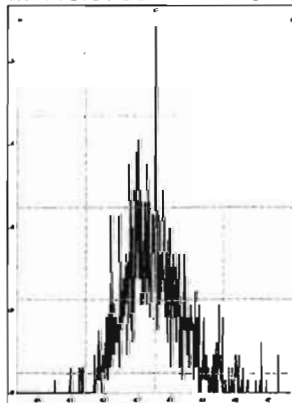
M 392.9760 R 10967



M 404.9760 R 11363



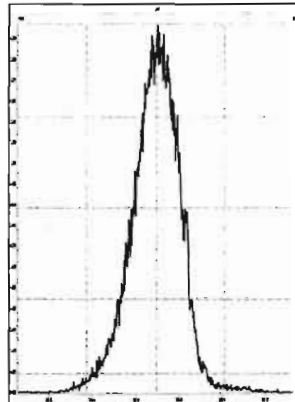
M 416.9760 R 12256



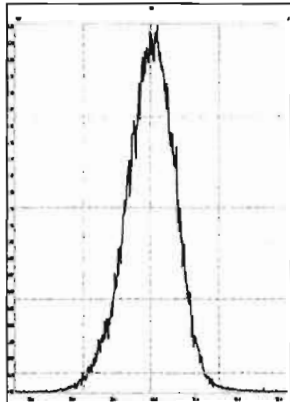
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

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

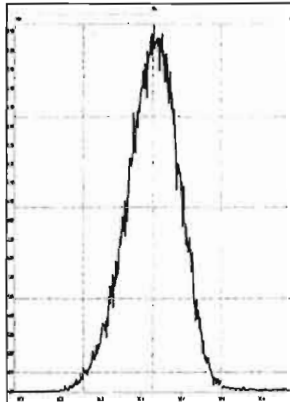
M 318.9792 R 12626



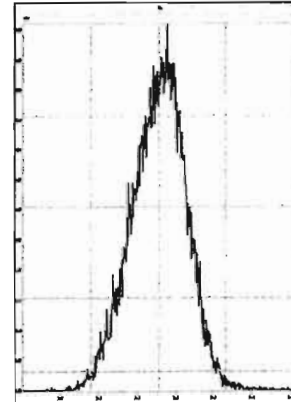
M 330.9792 R 11571



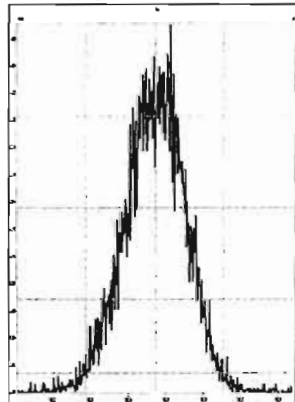
M 342.9792 R 11160



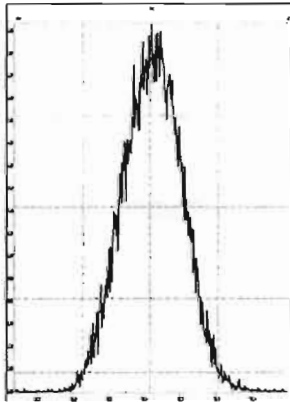
M 354.9792 R 10824



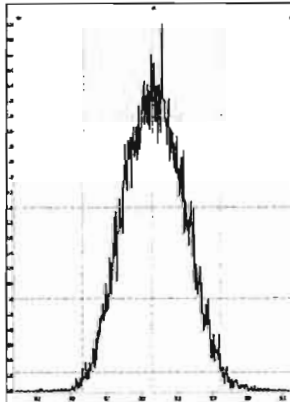
M 366.9792 R 10080



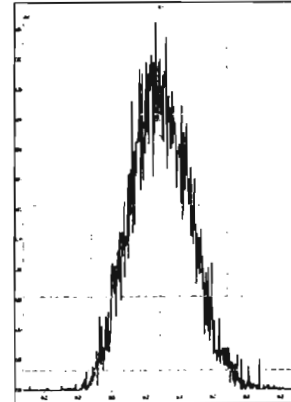
M 380.9760 R 10078



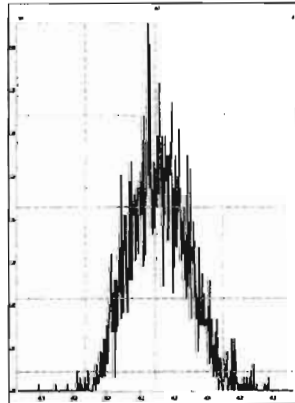
M 392.9760 R 10416



M 404.9760 R 10327



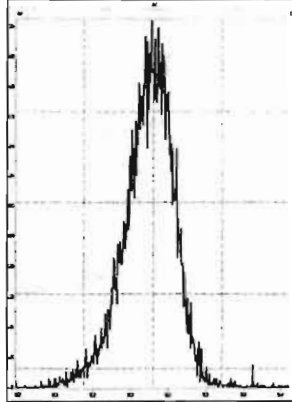
M 416.9760 R 11573



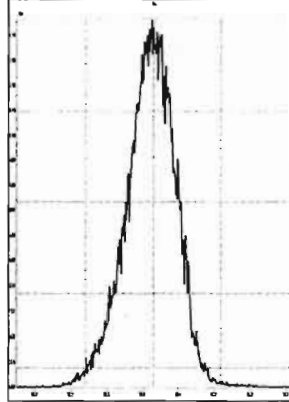
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Printed: Wednesday, November 25, 2020 10:05:02 Pacific Standard Time

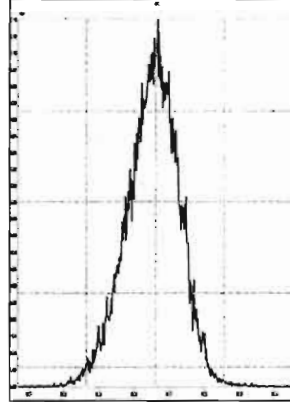
M 366.9792 R 12690



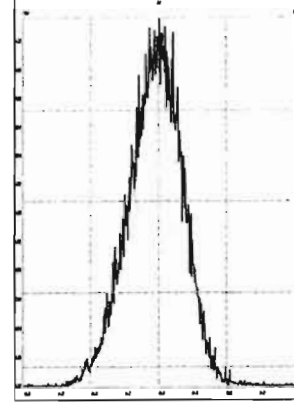
M 380.9760 R 12075



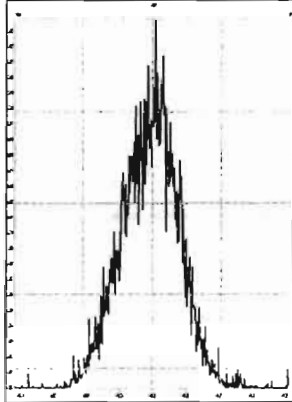
M 392.9760 R 11574



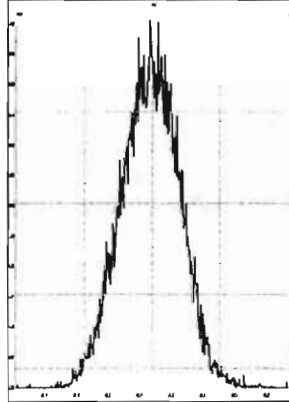
M 404.9760 R 11263



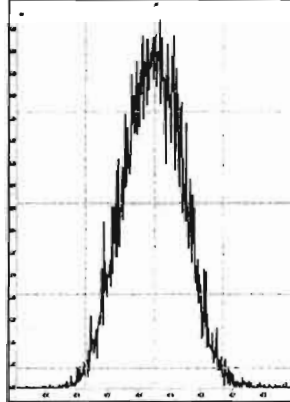
M 416.9760 R 10822



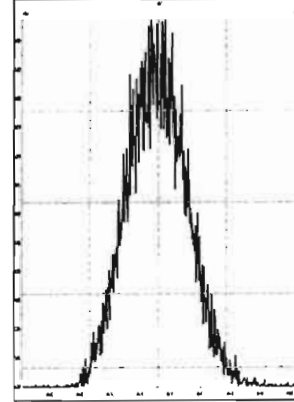
M 430.9728 R 10731



M 442.9728 R 10330



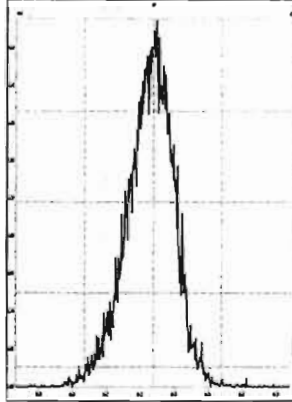
M 454.9728 R 10201



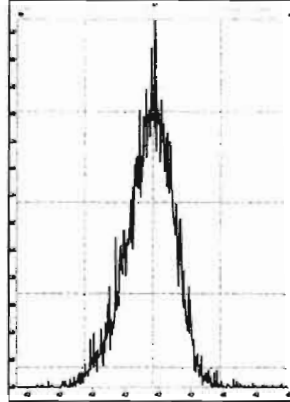
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Printed: Wednesday, November 25, 2020 10:05:26 Pacific Standard Time

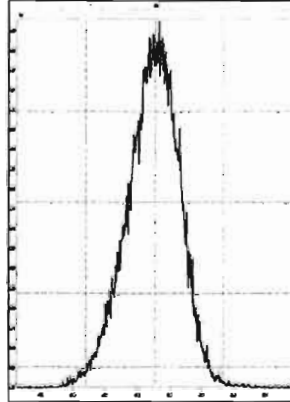
M 404.9760 R 12134



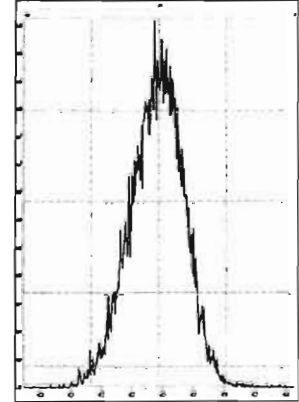
M 416.9760 R 12377



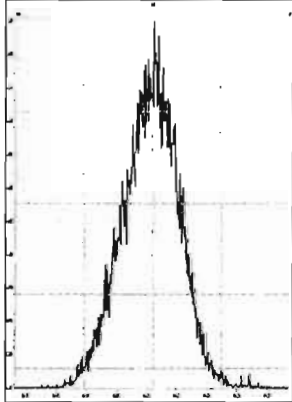
M 430.9728 R 11311



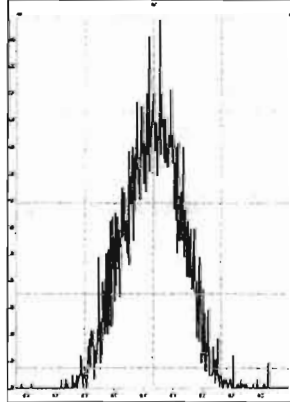
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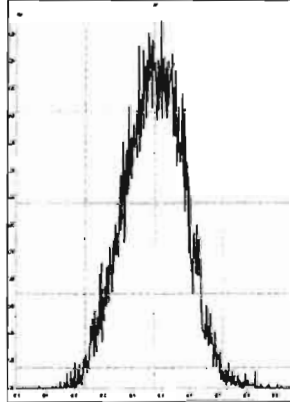
M 454.9728 R 10372



M 466.9728 R 11905



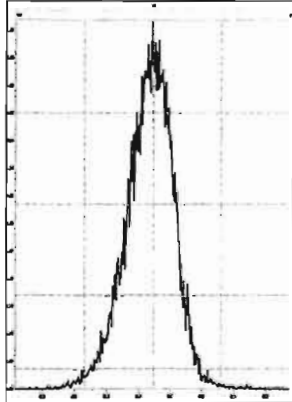
M 480.9696 R 10506



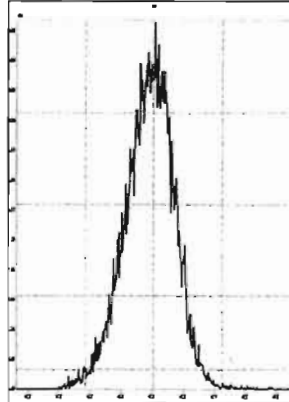
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

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

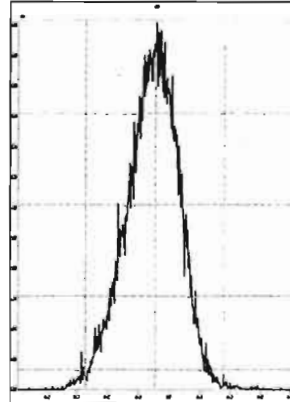
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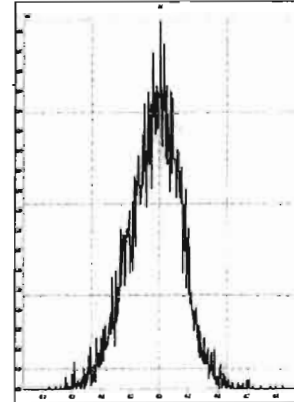
M 442.9728 R 11850



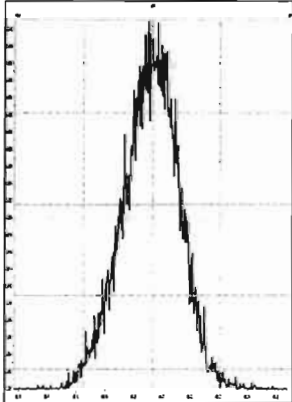
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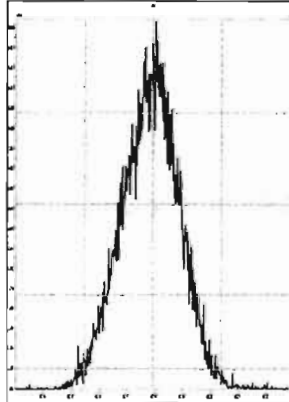
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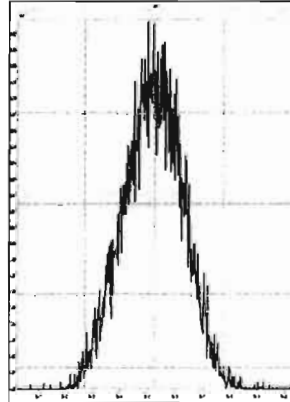
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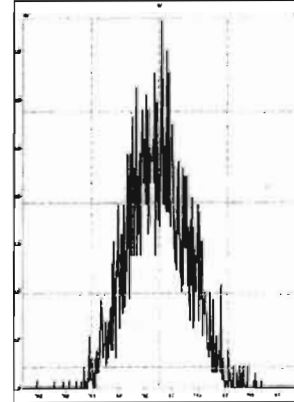
M 492.9696 R 11011



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

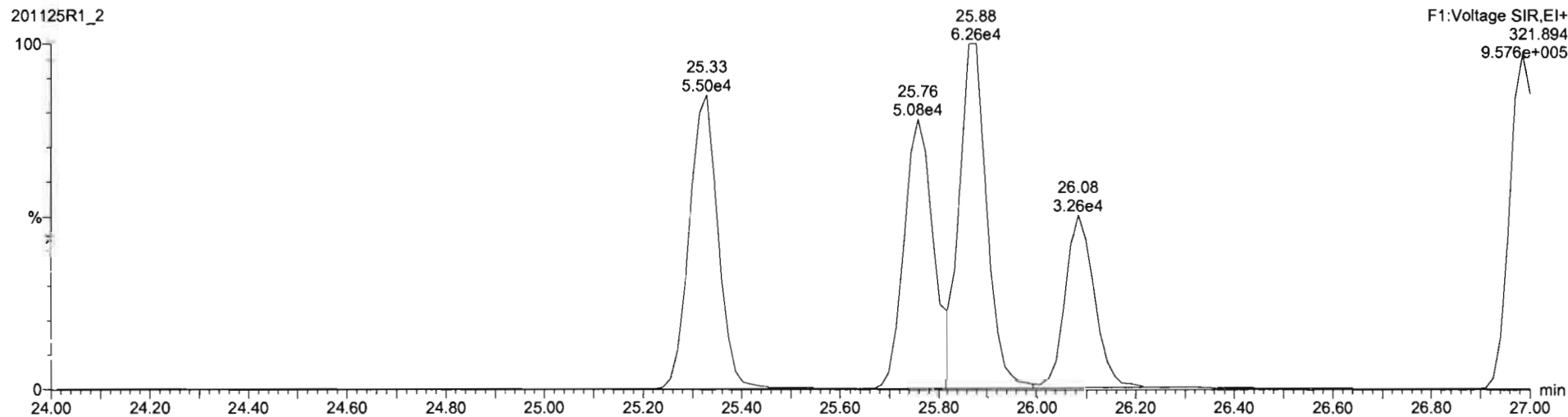
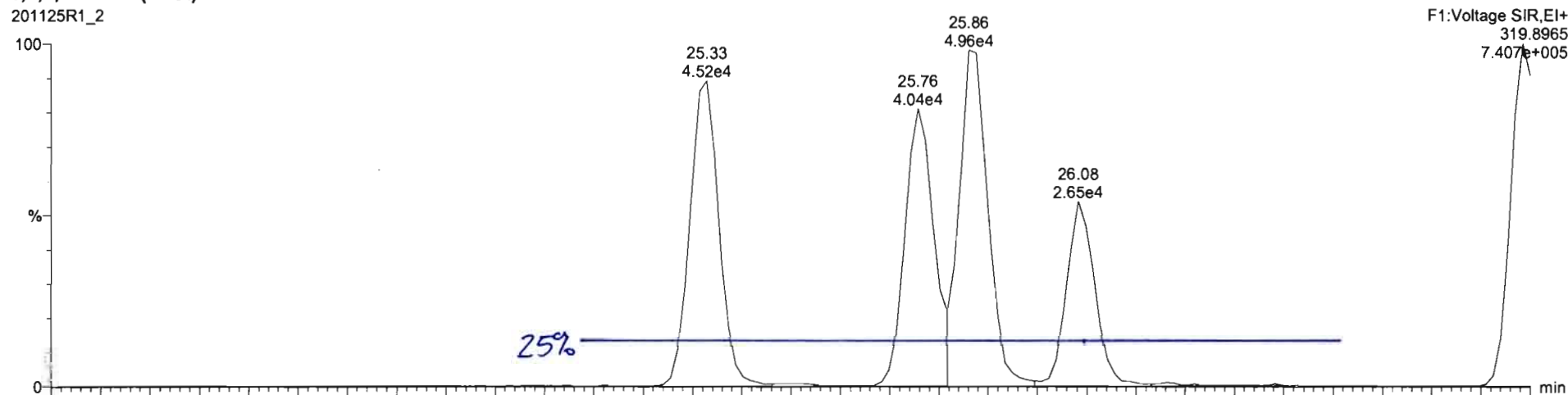
Last Altered: Wednesday, November 25, 2020 12:51:42 Pacific Standard Time
Printed: Wednesday, November 25, 2020 12:51:53 Pacific Standard Time

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

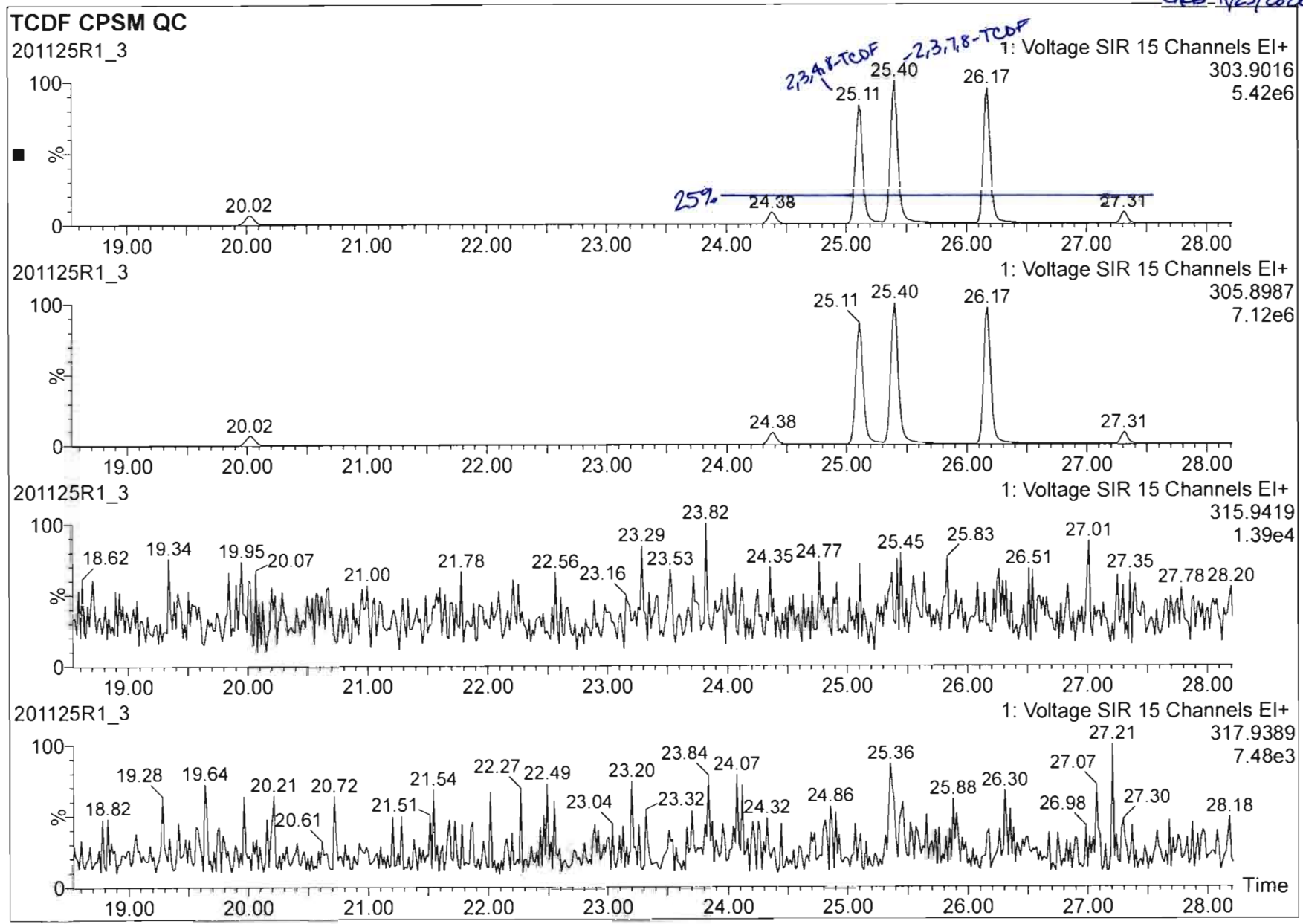
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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

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



HW 12/01/2020
GRB 11/25/2020



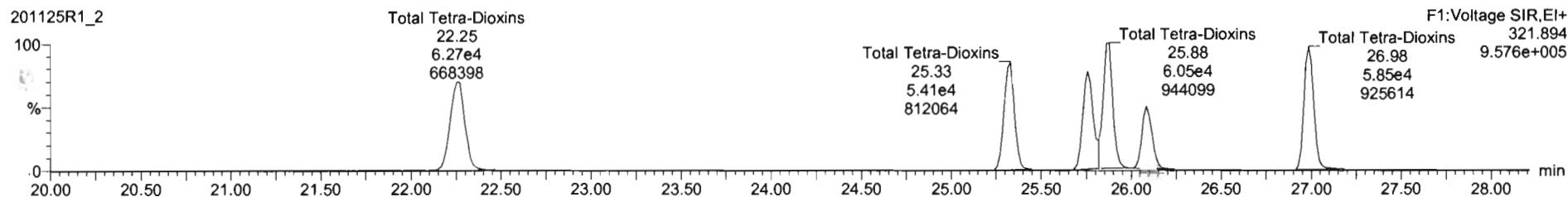
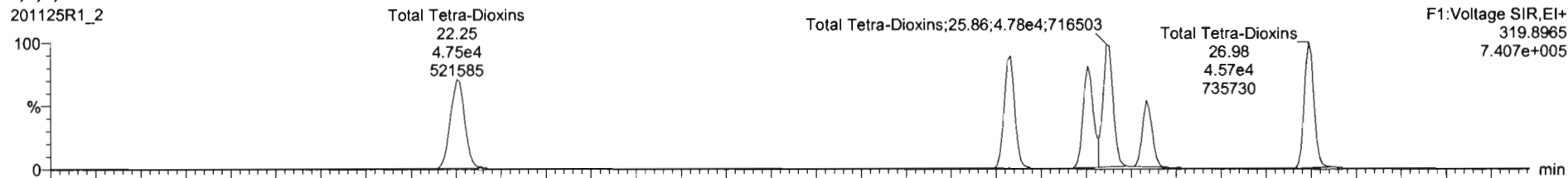
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Last Altered: Thursday, November 26, 2020 07:15:51 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:16:01 Pacific Standard Time

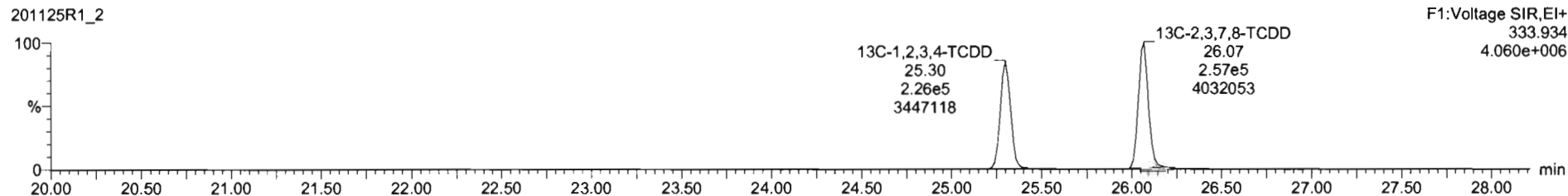
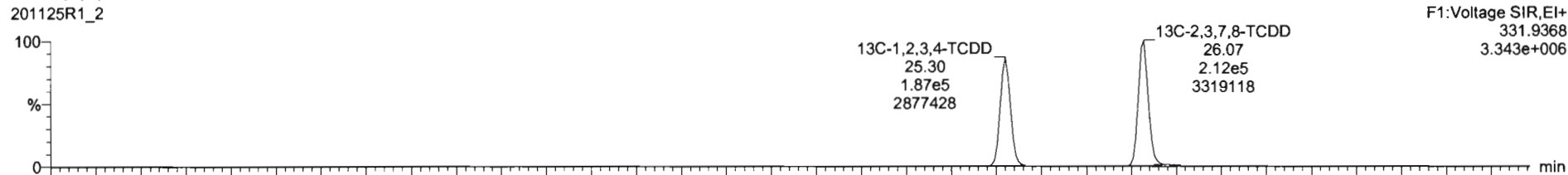
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Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

2,3,7,8-TCDD



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



Dataset: Untitled

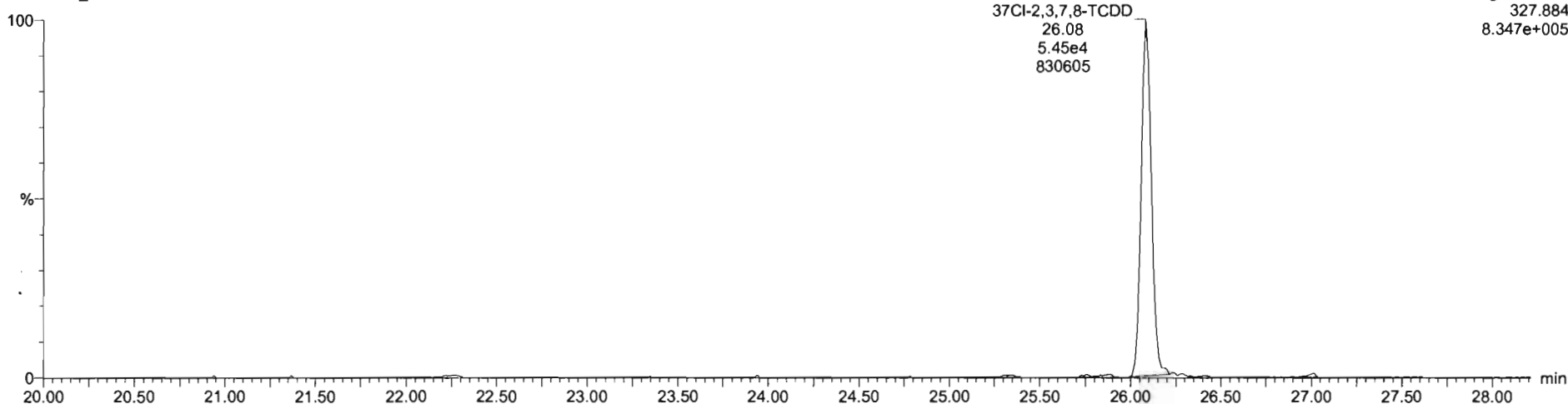
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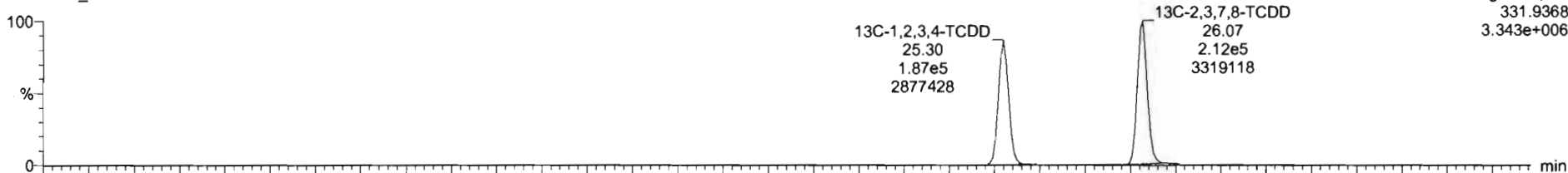
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201125R1_2

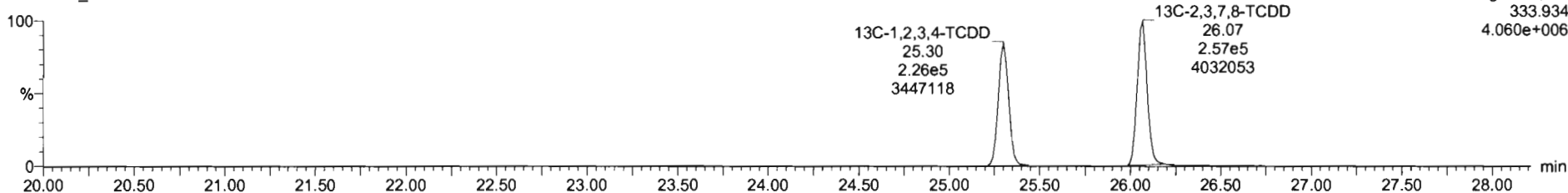


13C-1,2,3,4-TCDD

201125R1_2



201125R1_2

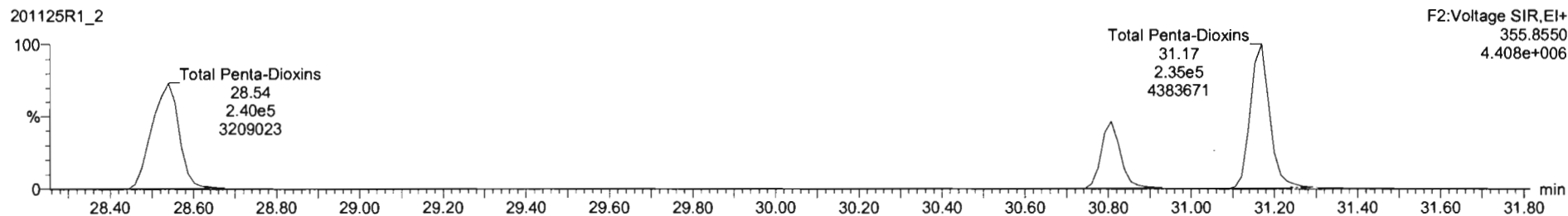
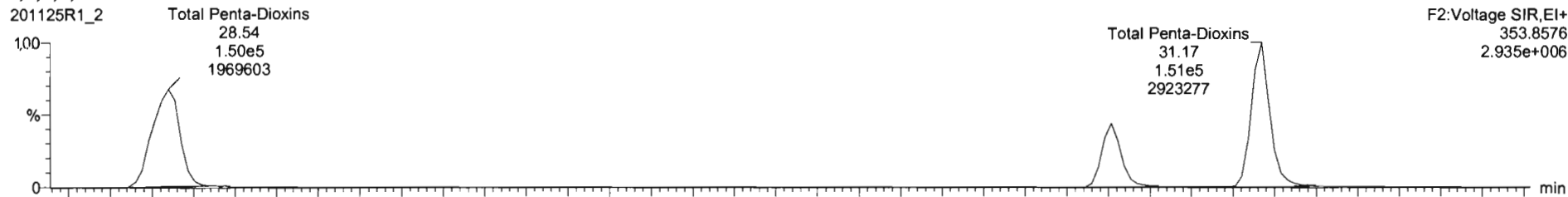


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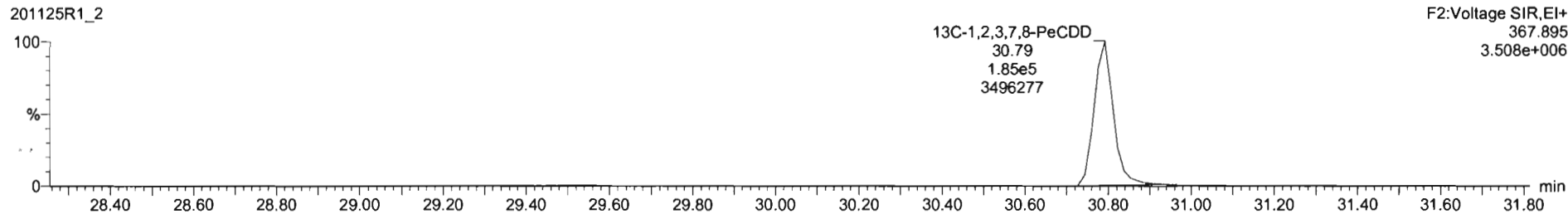
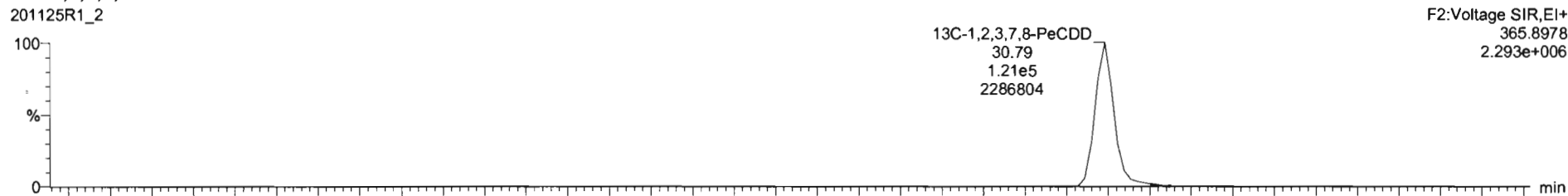
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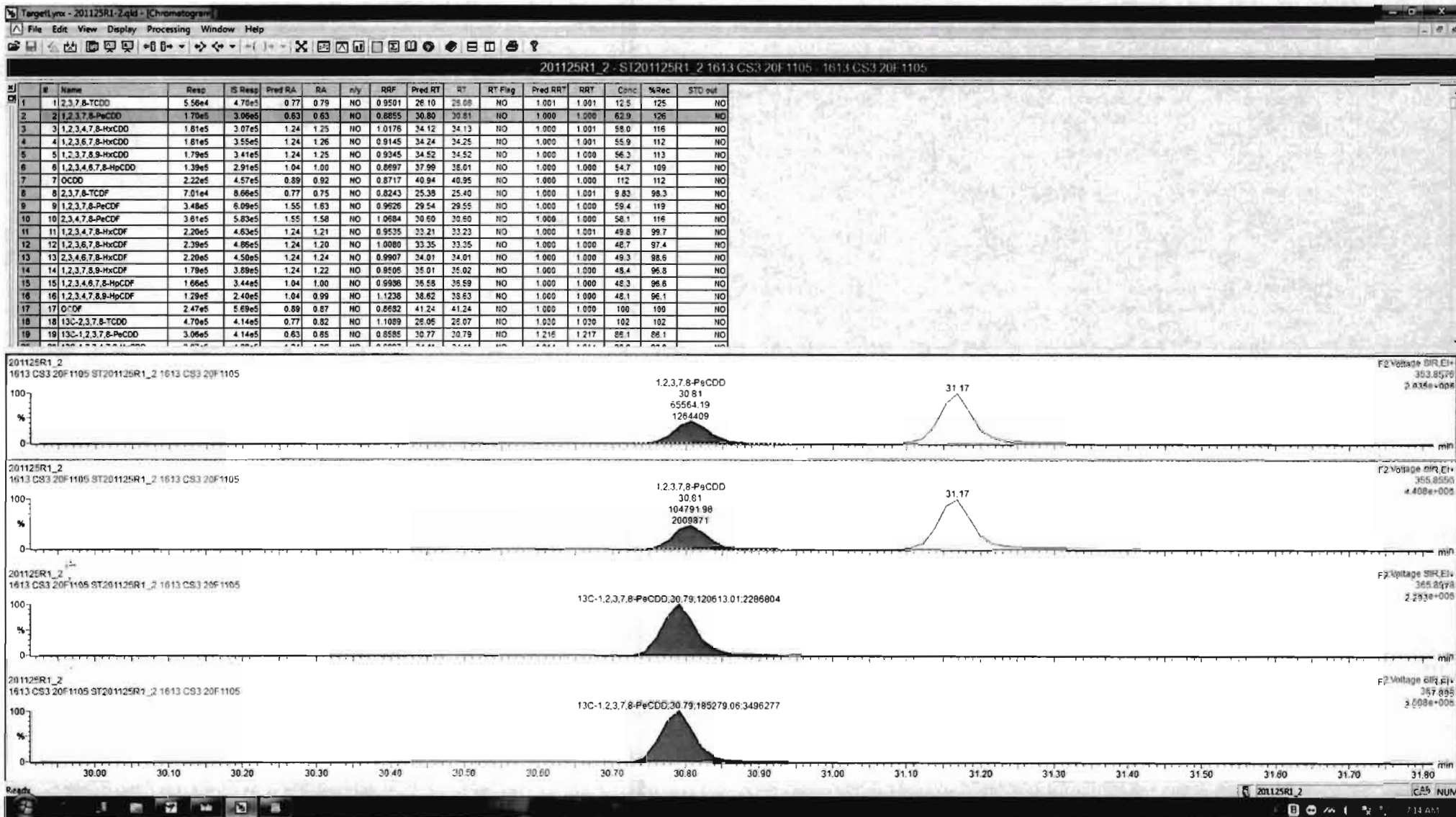
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1,2,3,7,8-PeCDD



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





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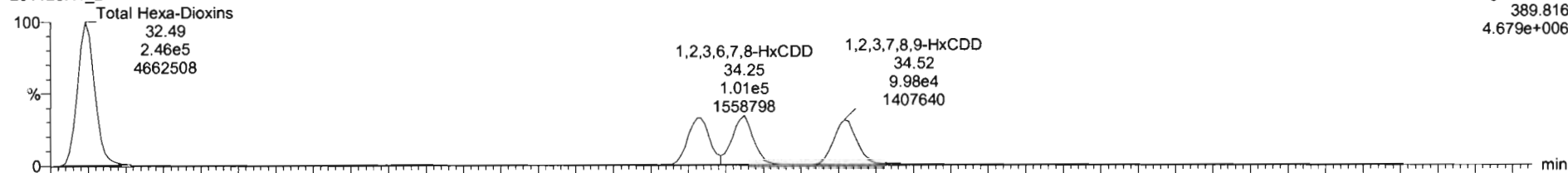
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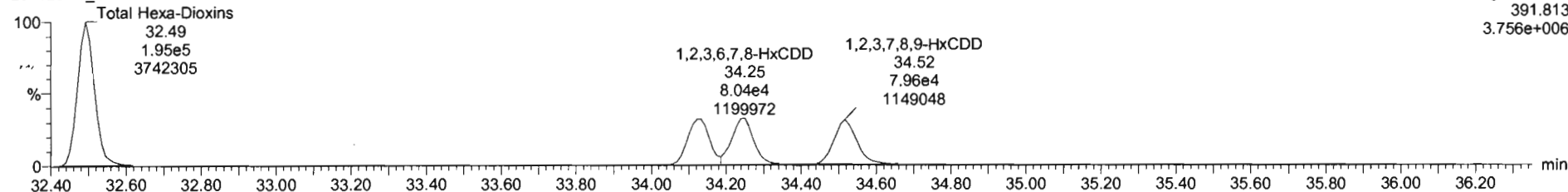
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1,2,3,4,7,8-HxCDD

201125R1_2

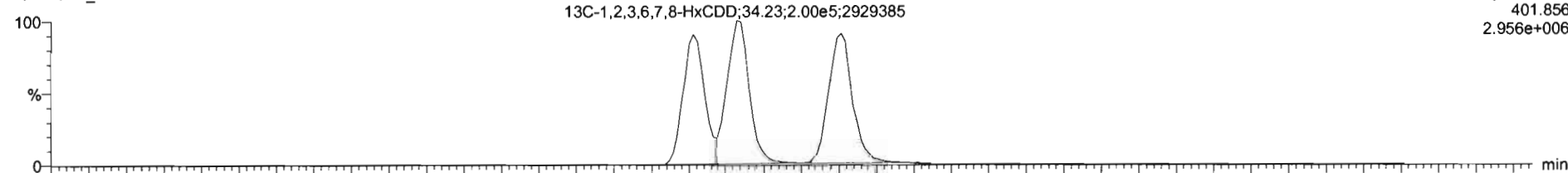


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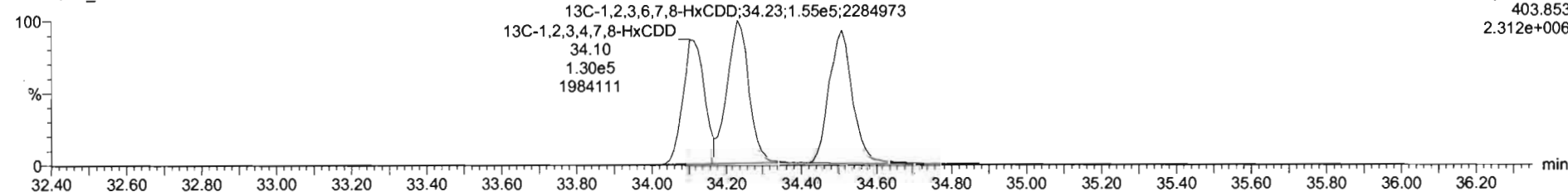


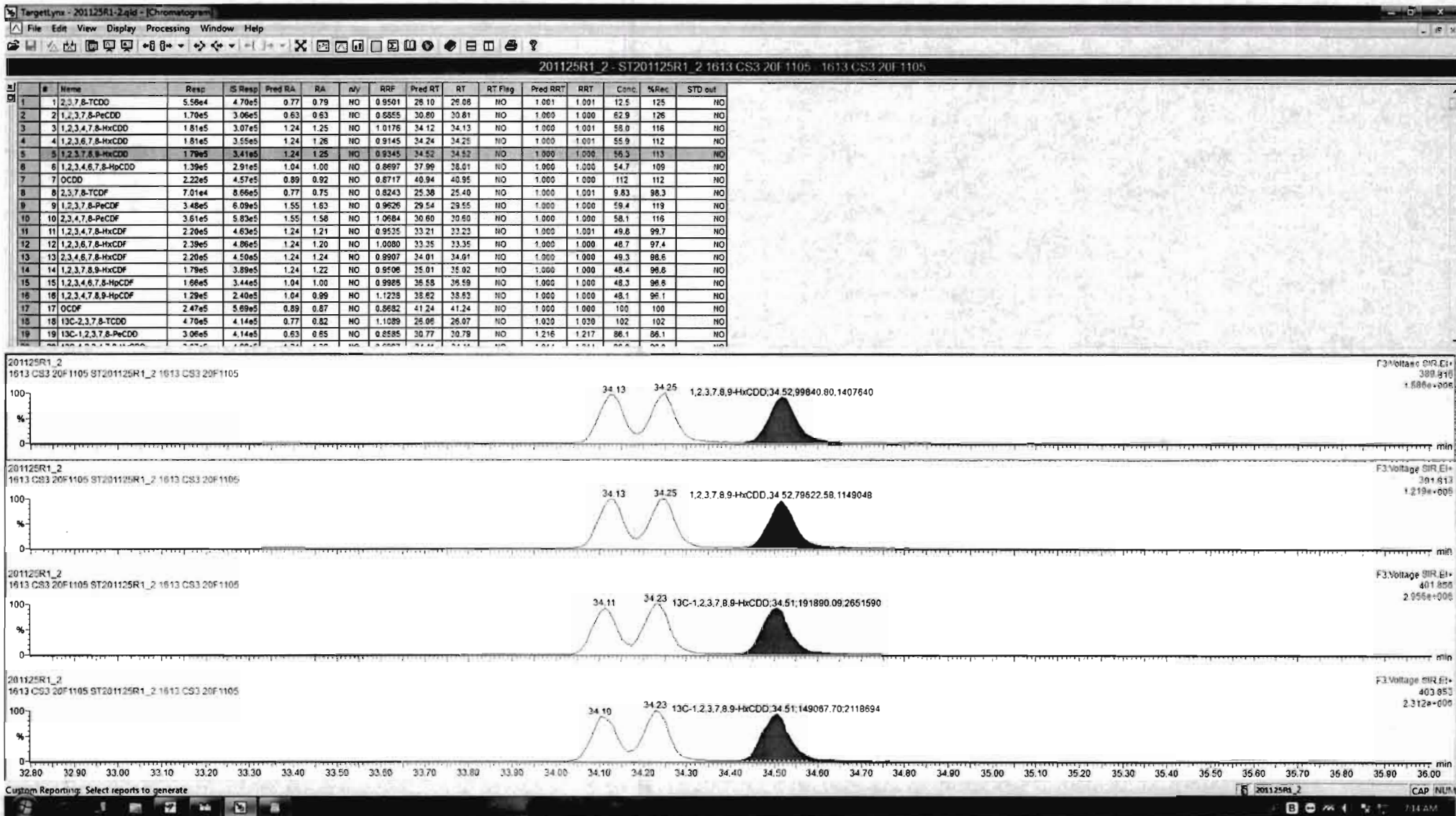
13C-1,2,3,4,7,8-HxCDD

201125R1_2



201125R1_2





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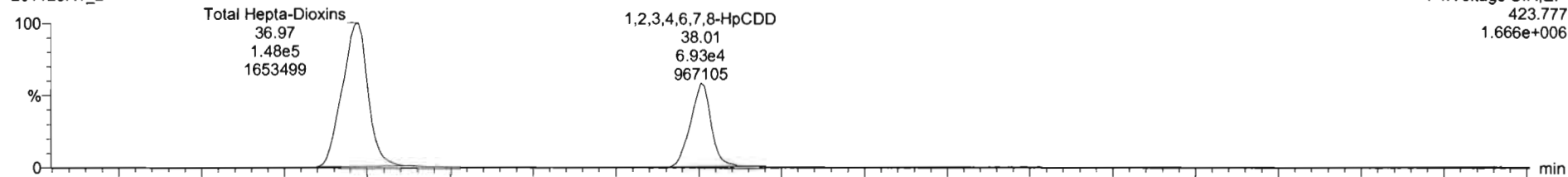
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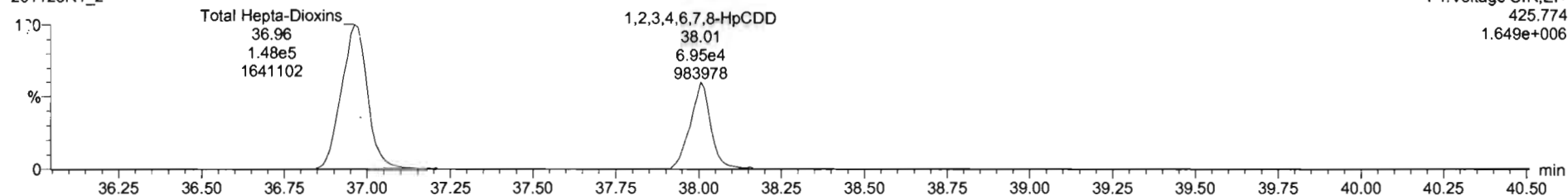
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1,2,3,4,6,7,8-HpCDD

201125R1_2

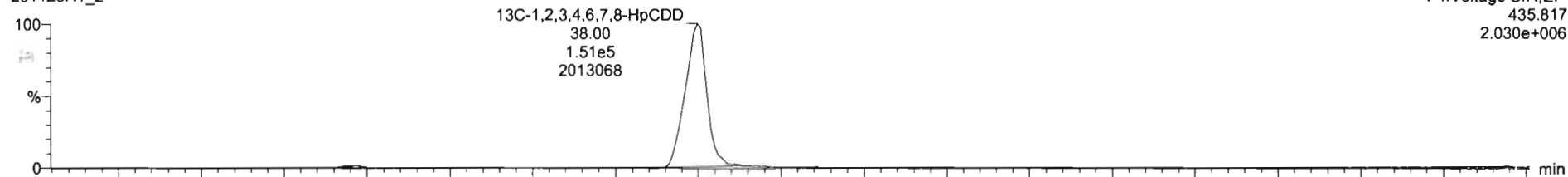


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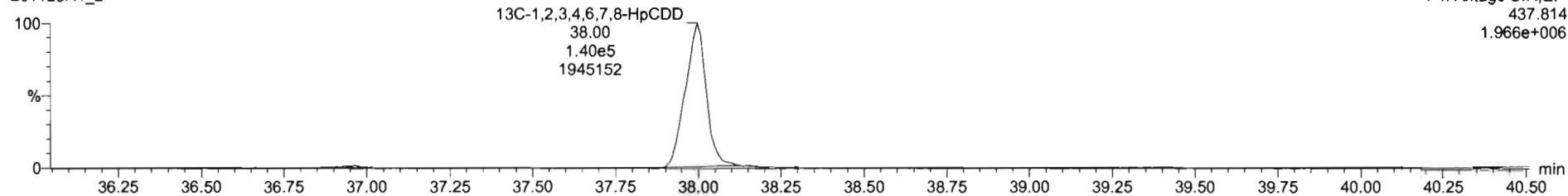


13C-1,2,3,4,6,7,8-HpCDD

201125R1_2



201125R1_2



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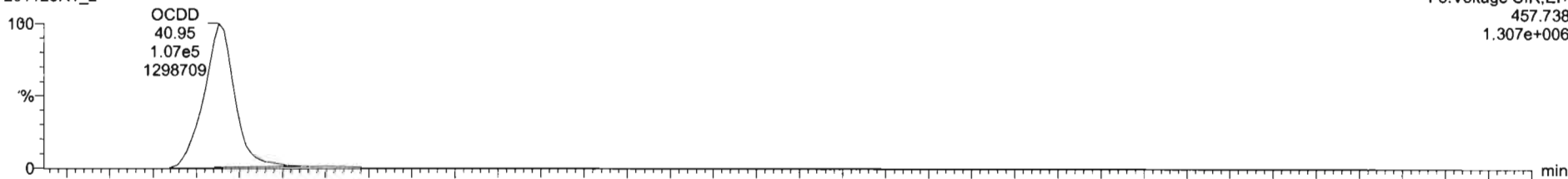
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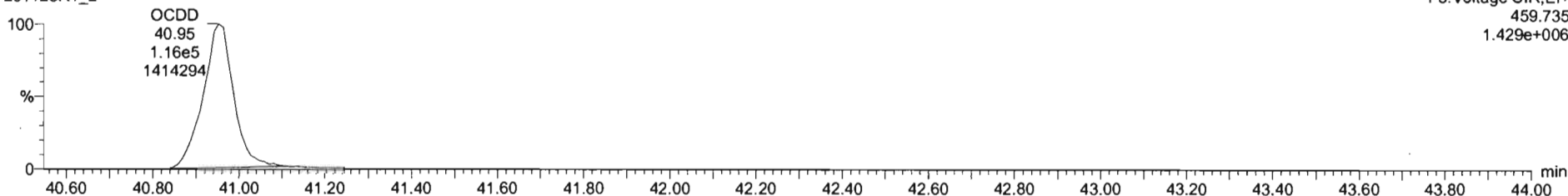
OCDD

201125R1_2



F5:Voltage SIR,EI+
457.738
1.307e+006

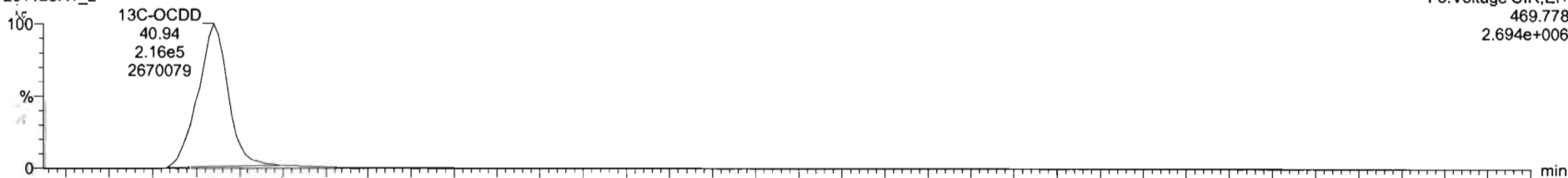
201125R1_2



F5:Voltage SIR,EI+
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1.429e+006

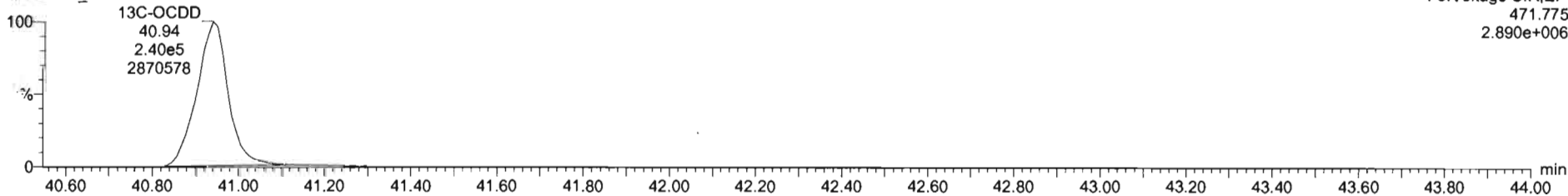
13C-OCDD

201125R1_2



F5:Voltage SIR,EI+
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2.694e+006

201125R1_2



F5:Voltage SIR,EI+
471.775
2.890e+006

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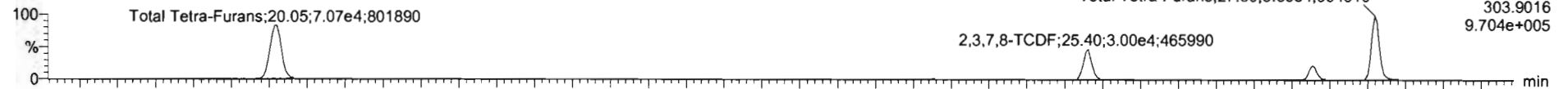
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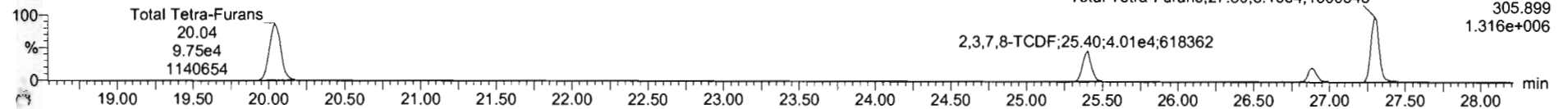
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2,3,7,8-TCDF

201125R1_2

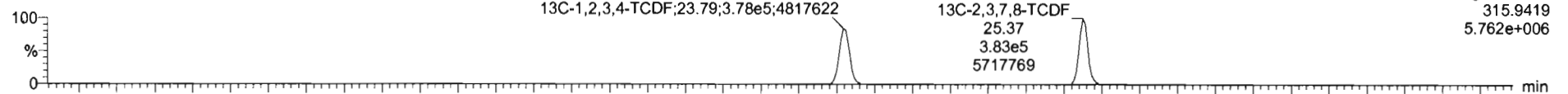


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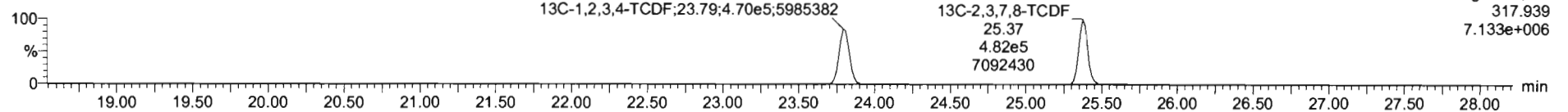


13C-2,3,7,8-TCDF

201125R1_2

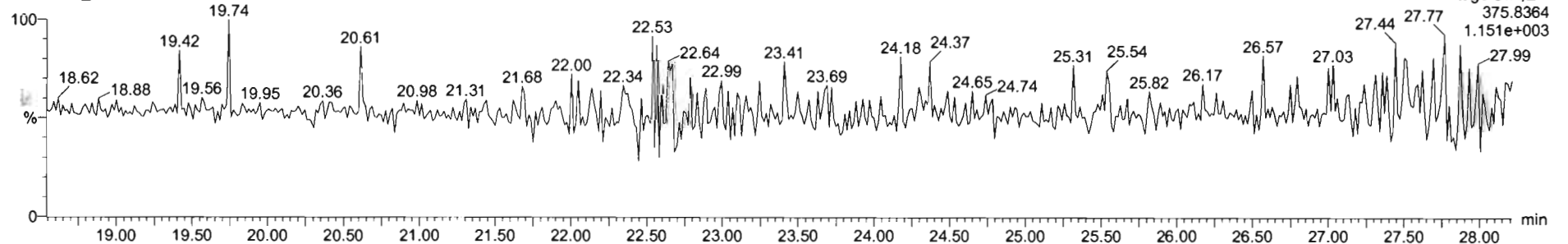


201125R1_2



DPE1

201125R1_2



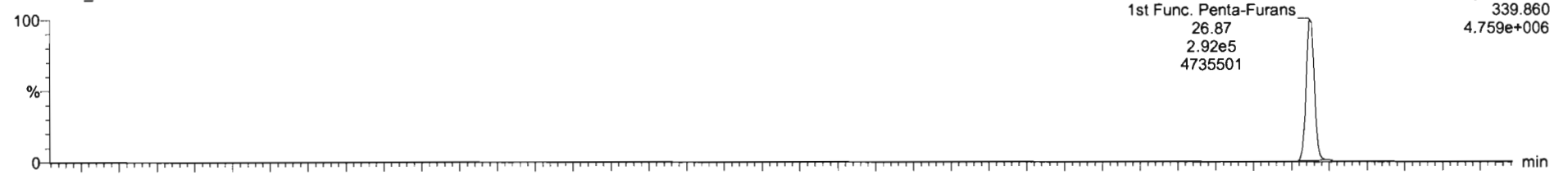
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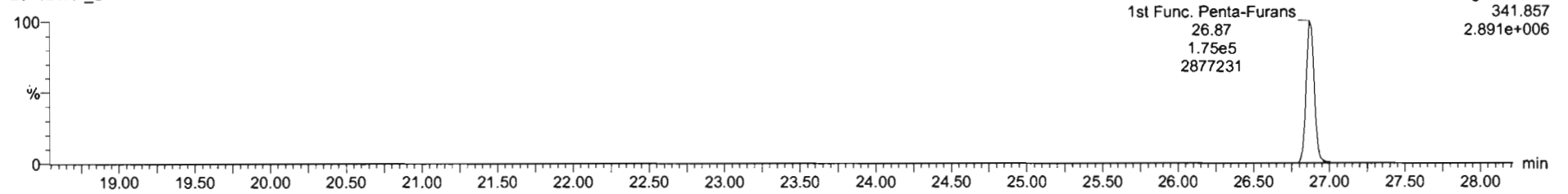
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1st Func. Penta-Furans

201125R1_2

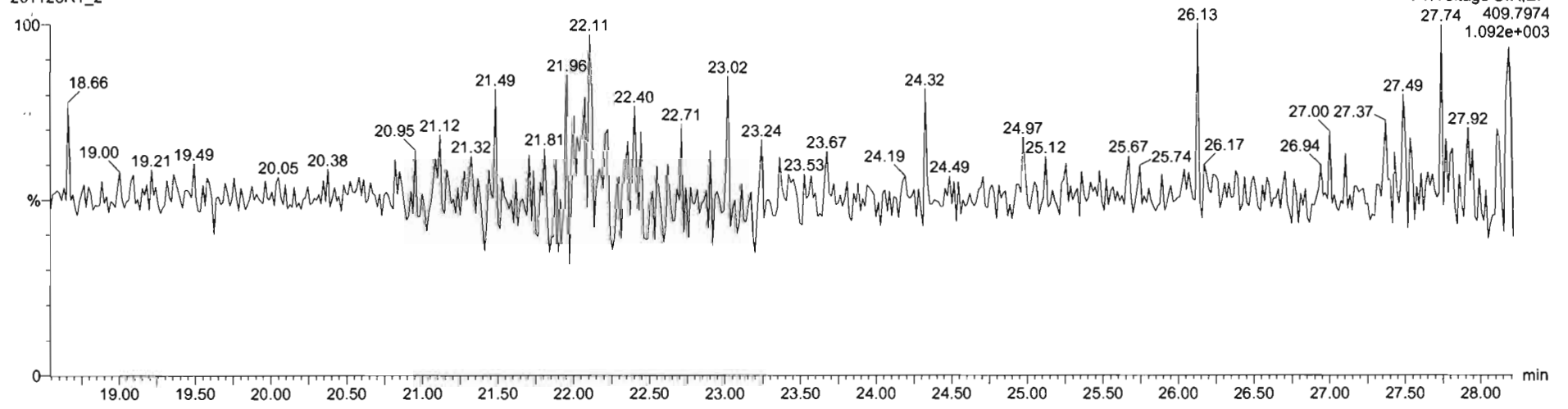


201125R1_2



DPE6

201125R1_2



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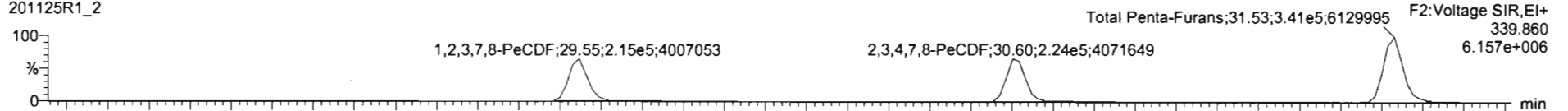
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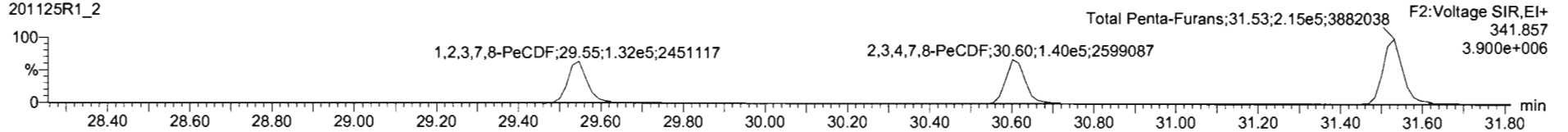
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1,2,3,7,8-PeCDF

201125R1_2

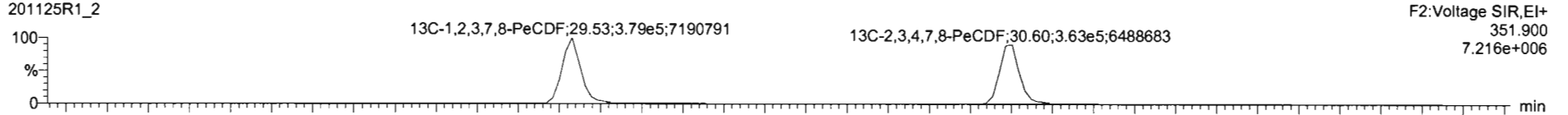


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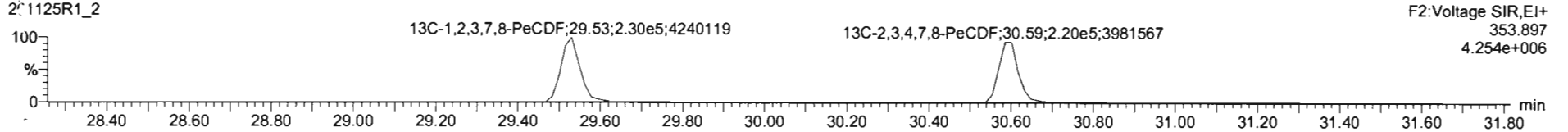


13C-1,2,3,7,8-PeCDF

201125R1_2

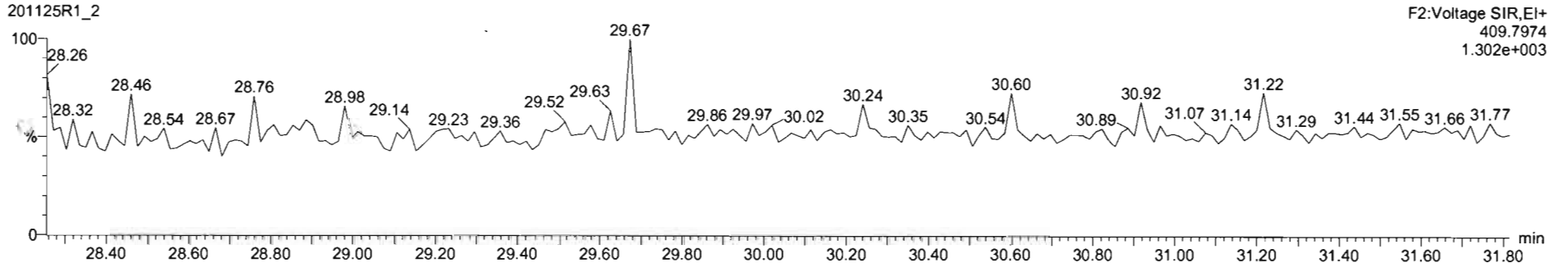


201125R1_2



DPE2

201125R1_2

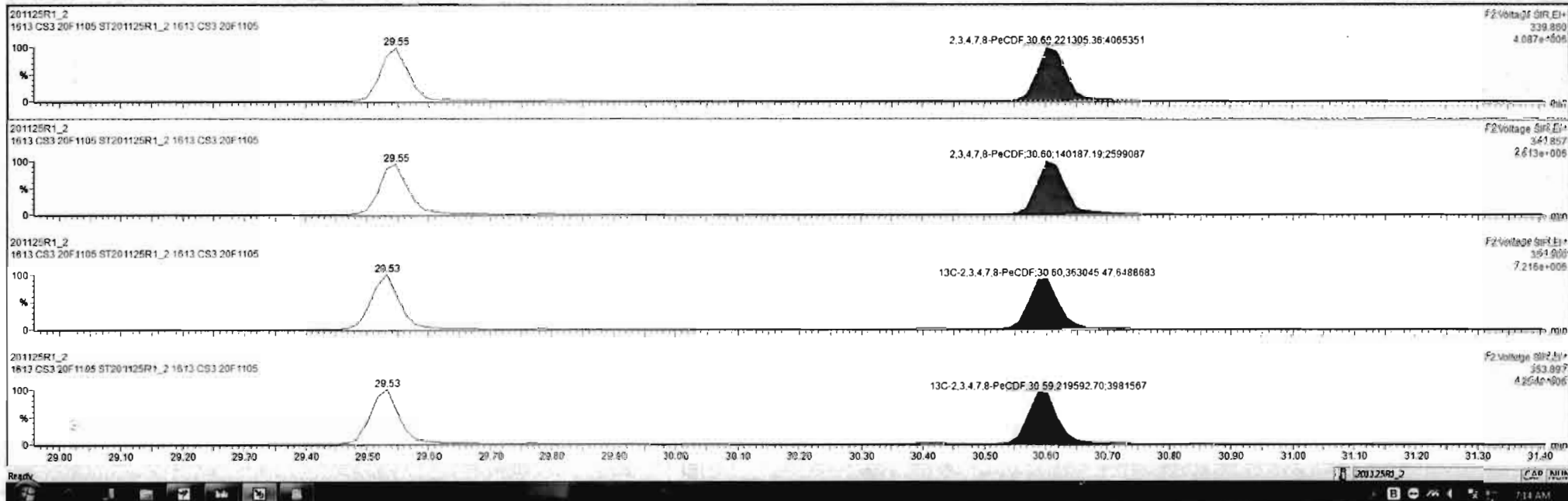


TargetLynx - 201125R1_2.qld - Chromatogram

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	29.55	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

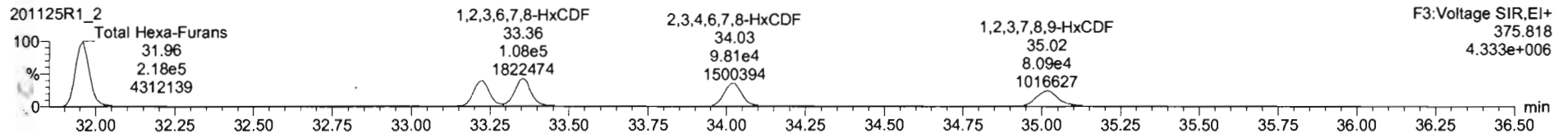
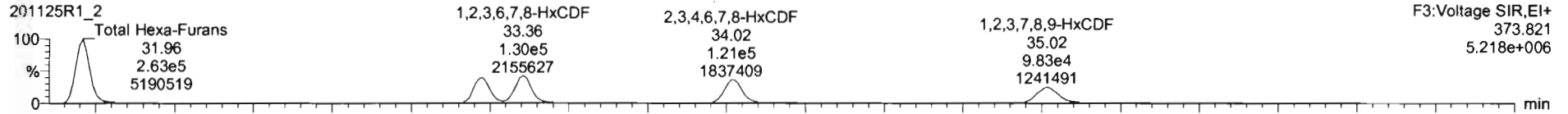


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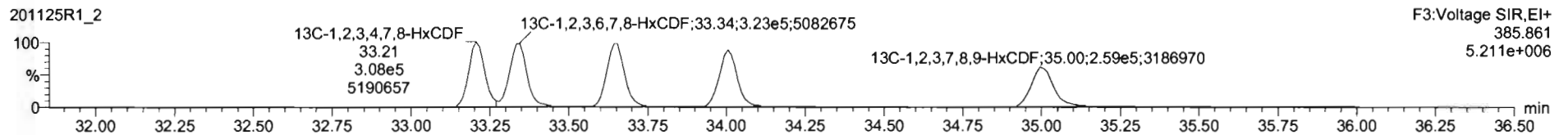
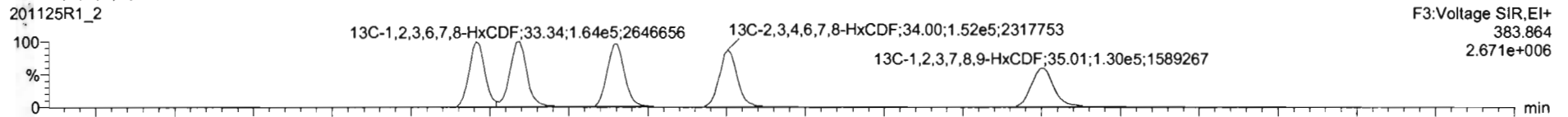
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Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

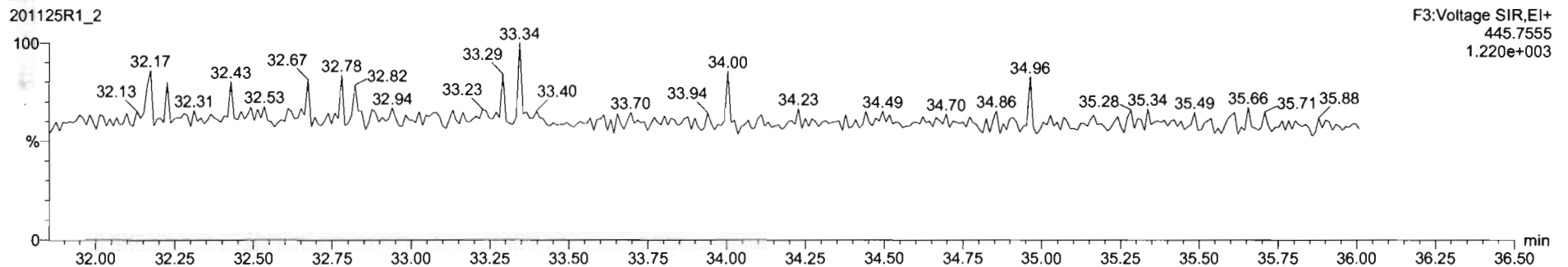
1,2,3,4,7,8-HxCDF



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



DPE3

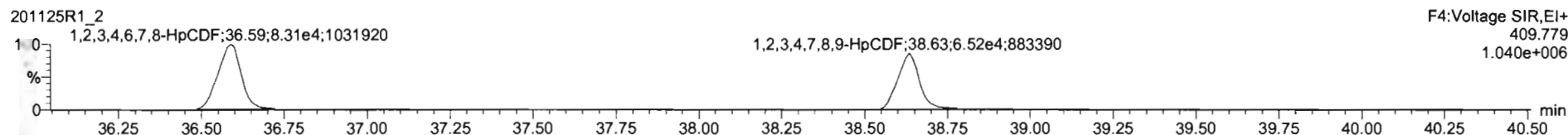
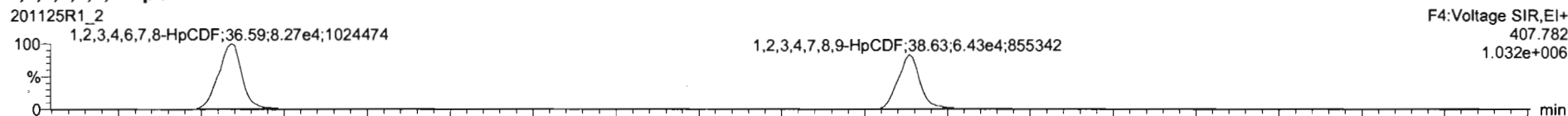


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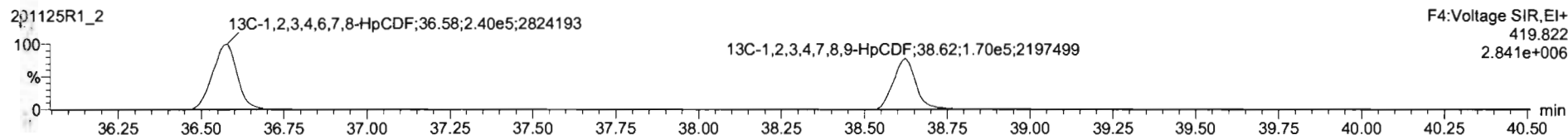
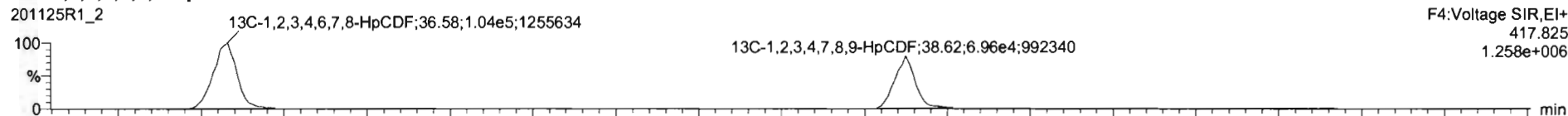
Last Altered: Thursday, November 26, 2020 07:15:51 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:16:01 Pacific Standard Time

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

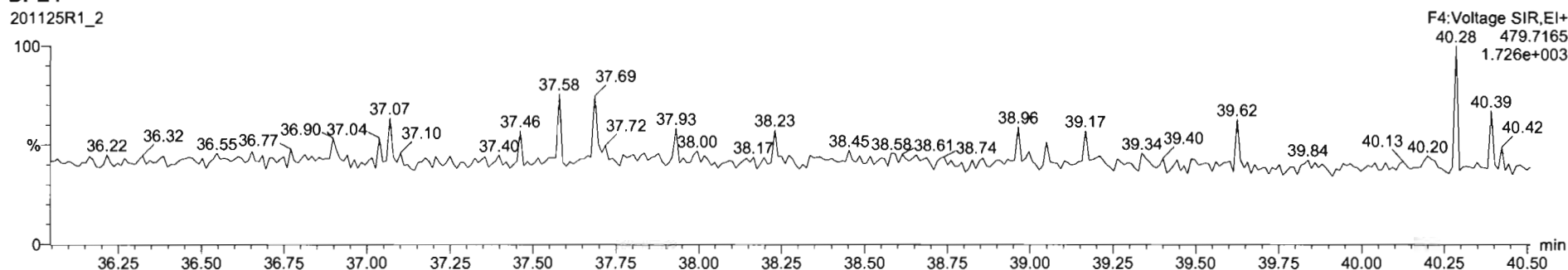
1,2,3,4,6,7,8-HpCDF



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



DPE4

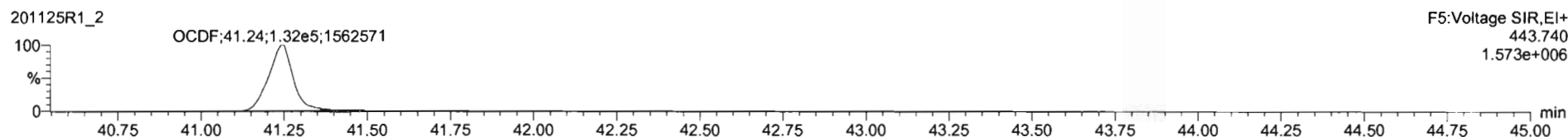
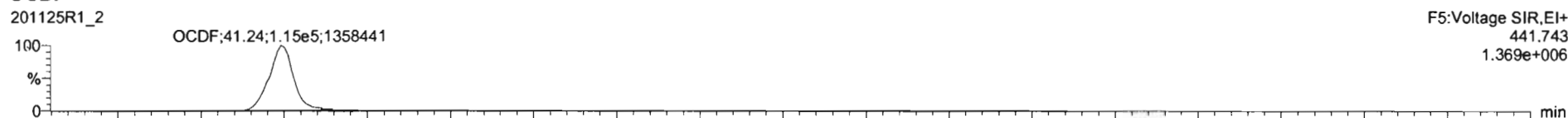


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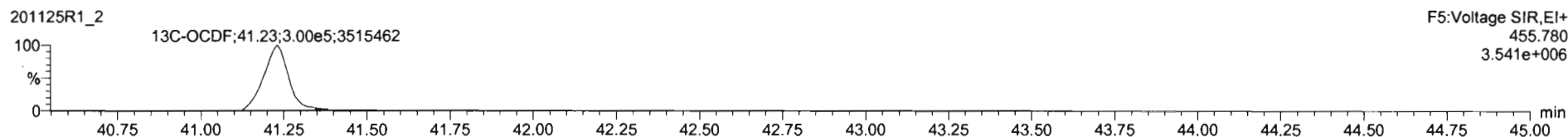
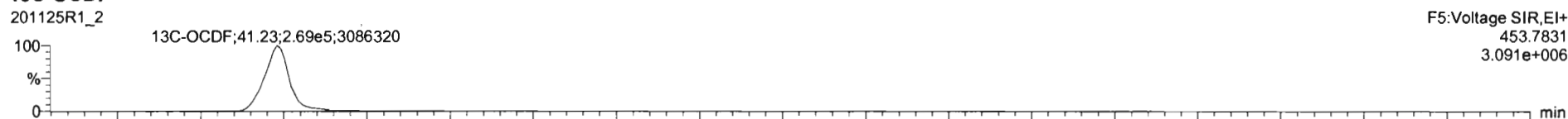
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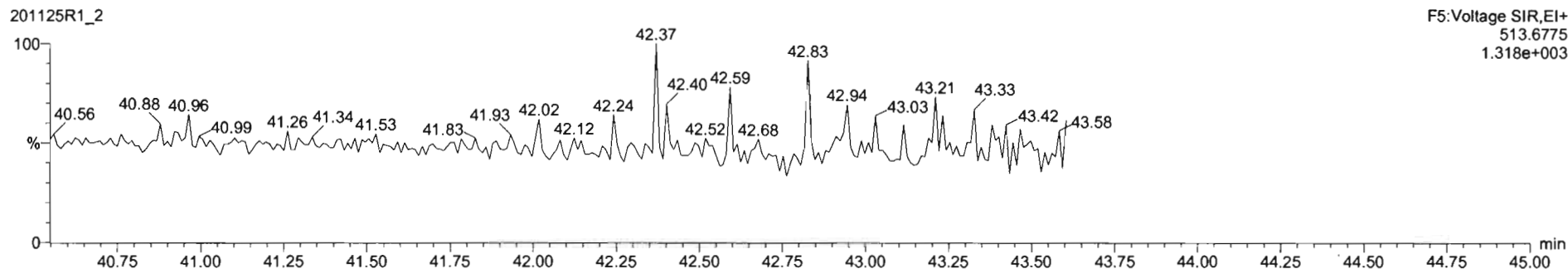
OCDF



13C-OCDF



DPE5

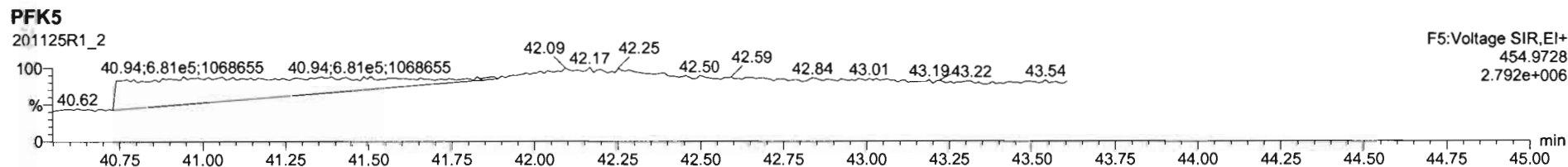
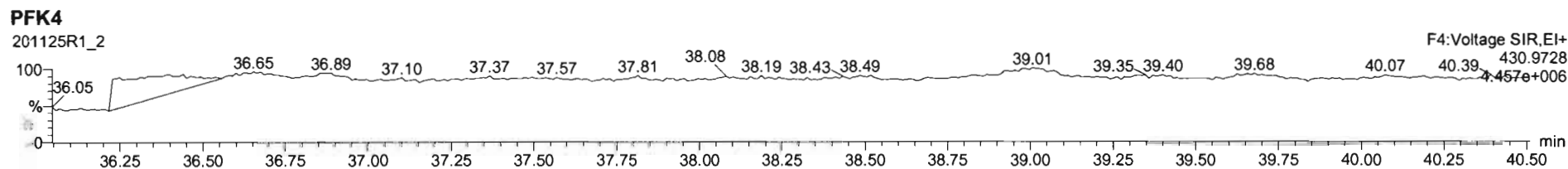
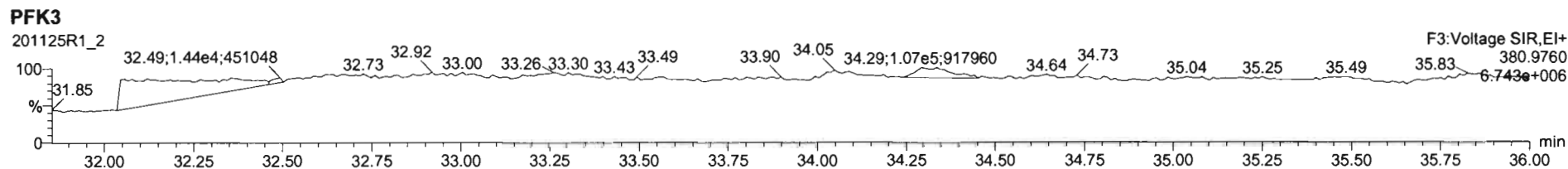
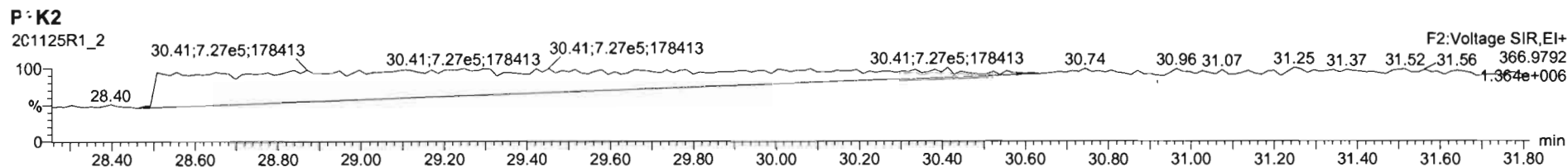
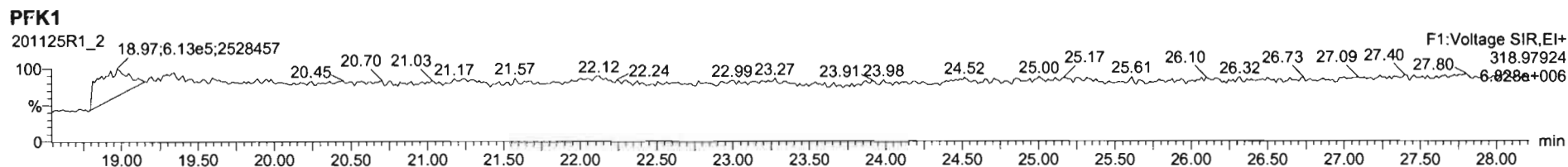


Dataset: Untitled

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

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

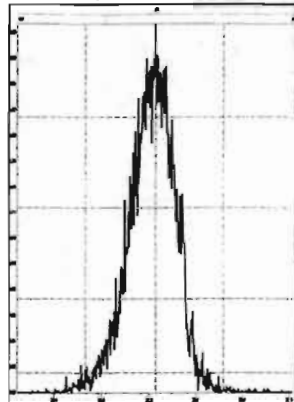
Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105



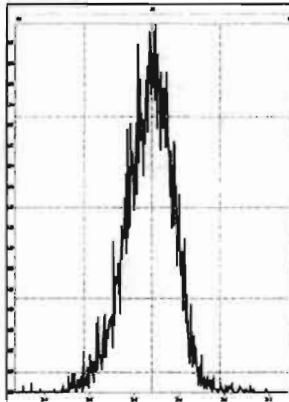
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:02:03 Pacific Standard Time

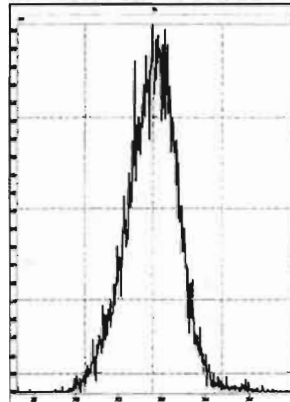
M 292.9824 R 13584



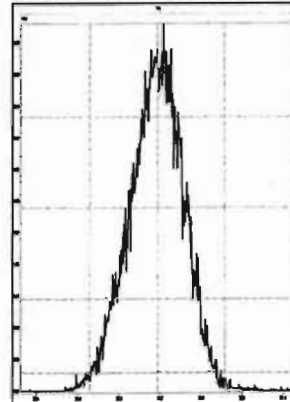
M 304.9824 R 13089



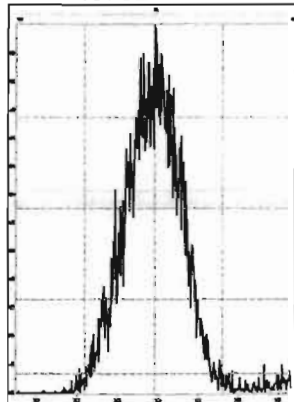
M 318.9792 R 12503



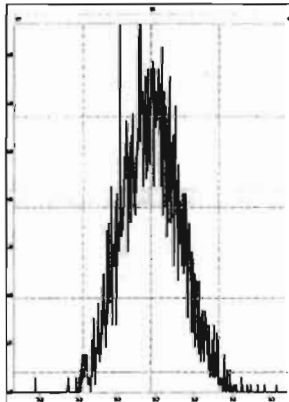
M 330.9792 R 11364



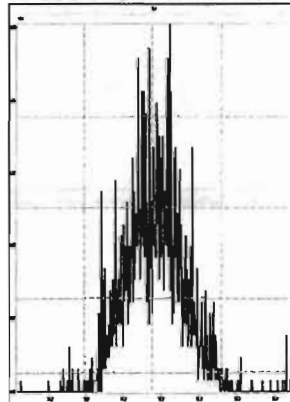
M 342.9792 R 11064



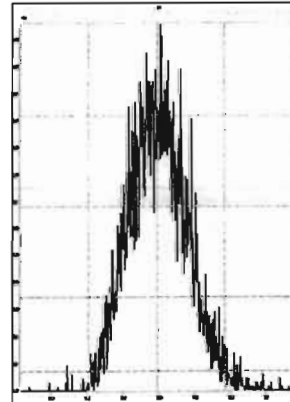
M 354.9792 R 10822



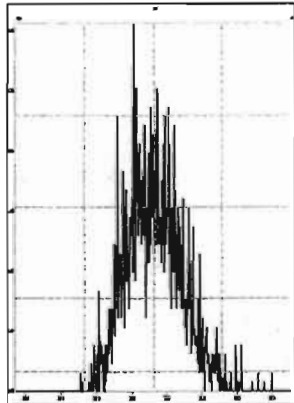
M 366.9792 R 11734



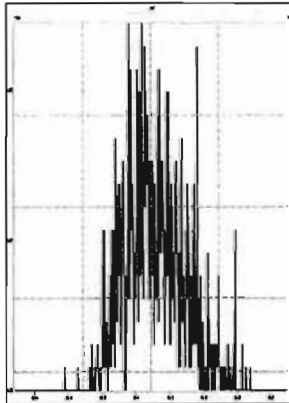
M 380.9760 R 11311



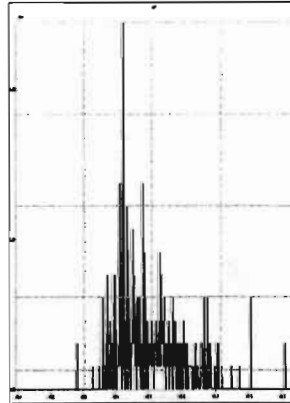
M 392.9760 R 13017



M 404.9760 R 14284



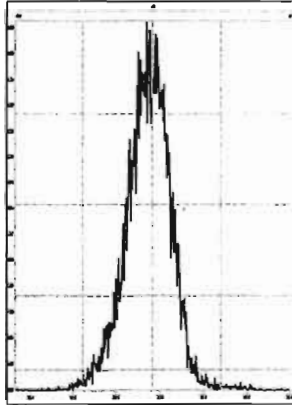
M 416.9760 R 26884



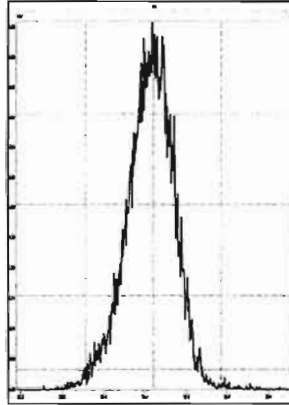
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

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

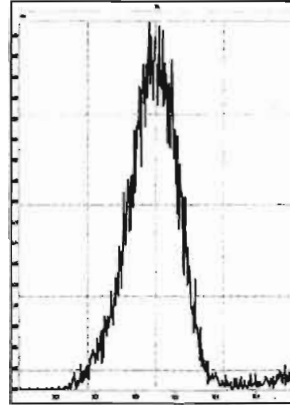
M 318.9792 R 14123



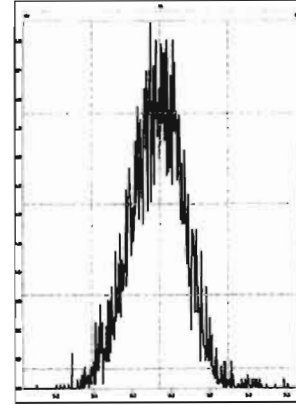
M 330.9792 R 12439



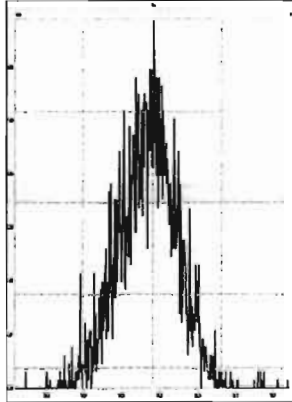
M 342.9792 R 11573



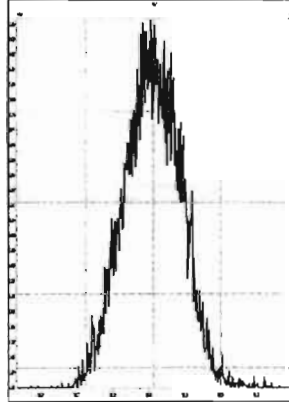
M 354.9792 R 12256



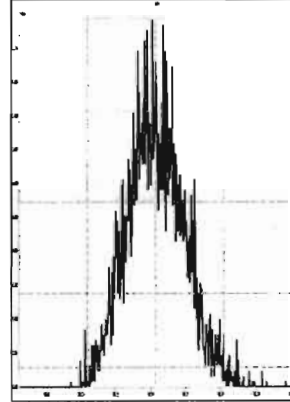
M 366.9792 R 12753



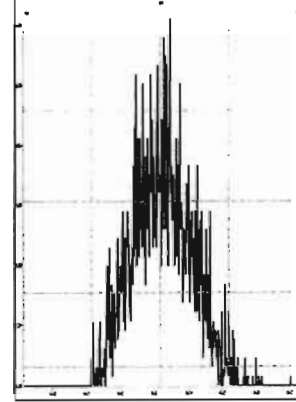
M 380.9760 R 11063



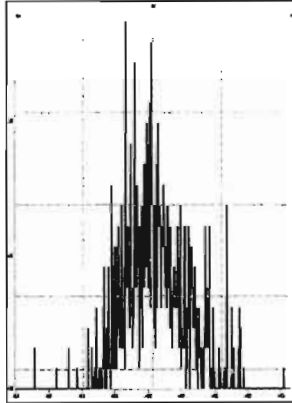
M 392.9760 R 11791



M 404.9760 R 12195



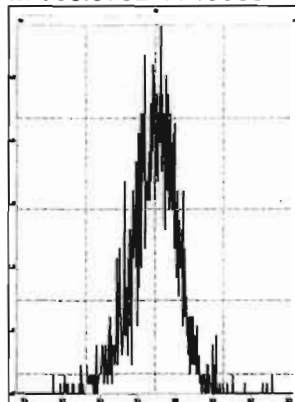
M 416.9760 R 16444



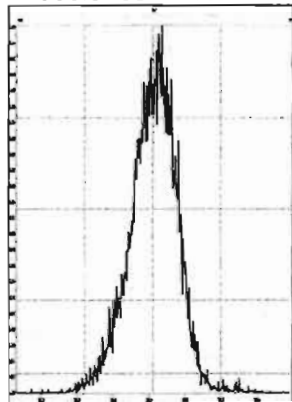
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

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

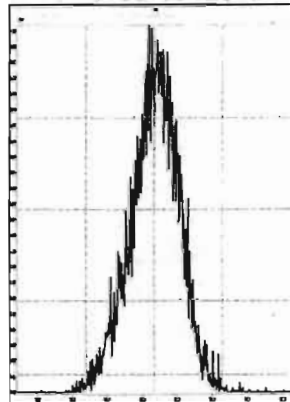
M 366.9792 R 13368



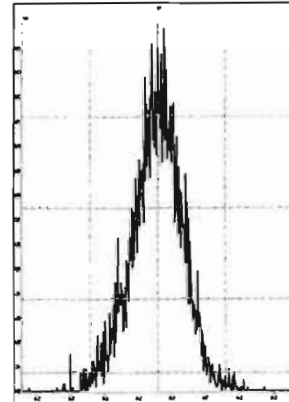
M 380.9760 R 13229



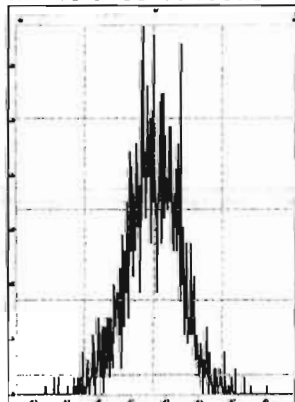
M 392.9760 R 12819



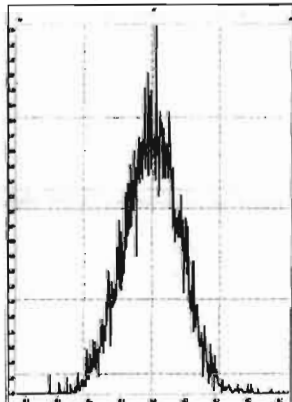
M 404.9760 R 13229



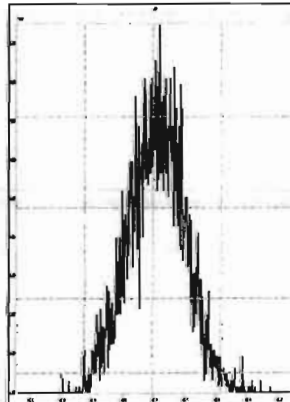
M 416.9760 R 13970



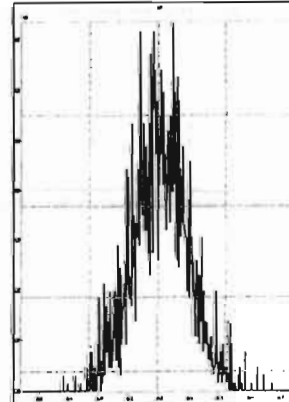
M 430.9728 R 11157



M 442.9728 R 10821



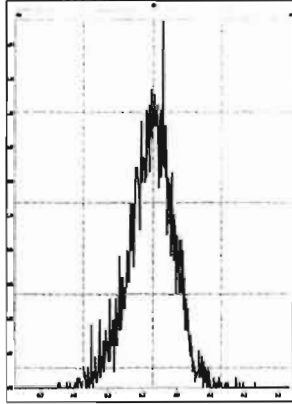
M 454.9728 R 11737



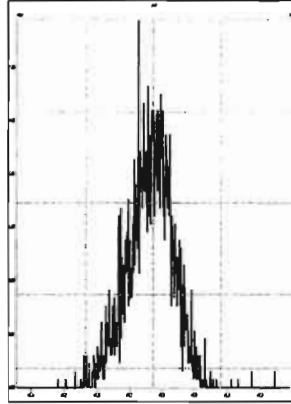
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

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

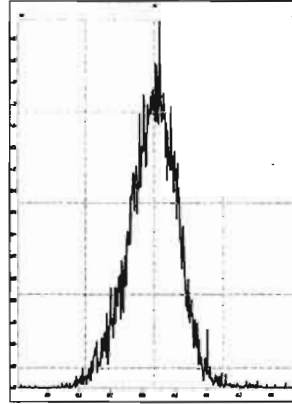
M 404.9760 R 14283



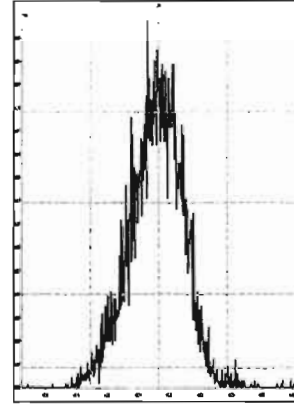
M 416.9760 R 14793



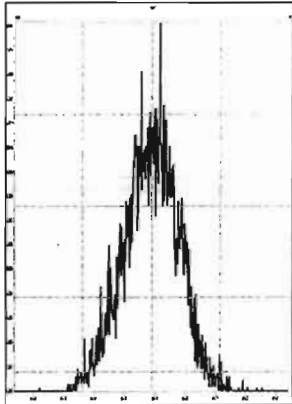
M 430.9728 R 12313



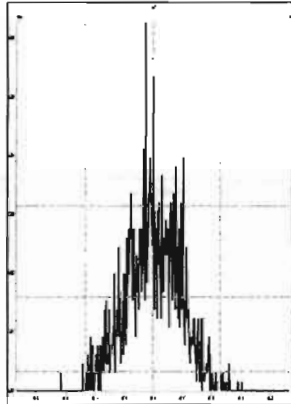
M 442.9728 R 12690



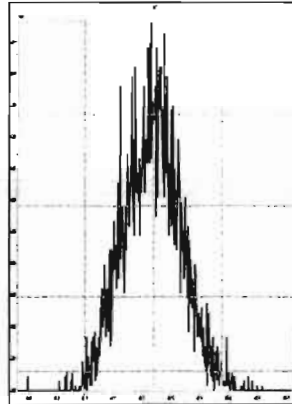
M 454.9728 R 11519



M 466.9728 R 14124



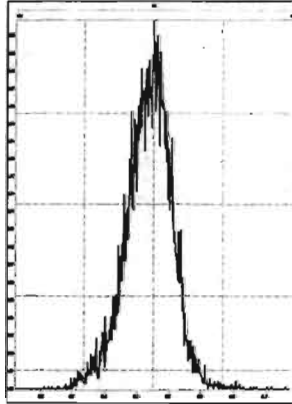
M 480.9696 R 11959



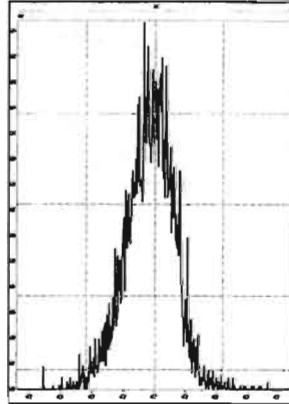
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

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

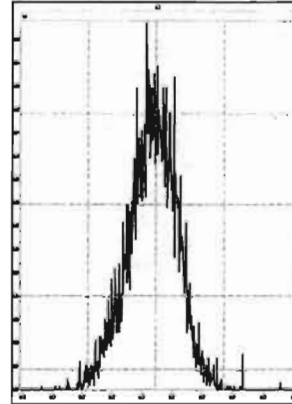
M 430.9728 R 13661



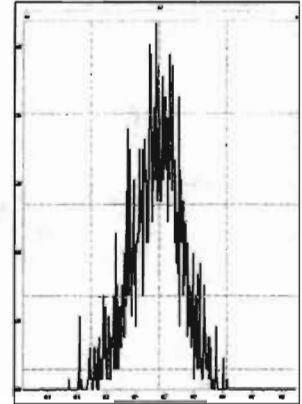
M 442.9728 R 12435



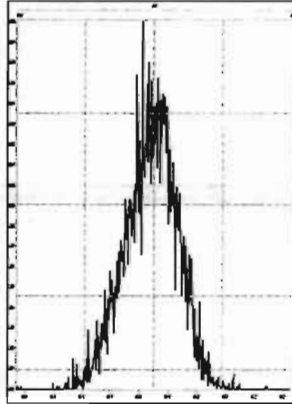
M 454.9728 R 13020



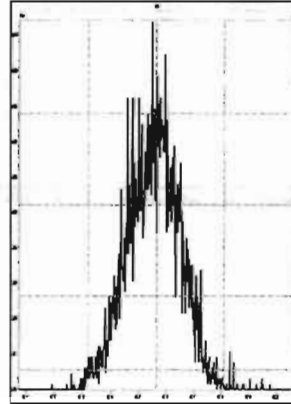
M 466.9728 R 12497



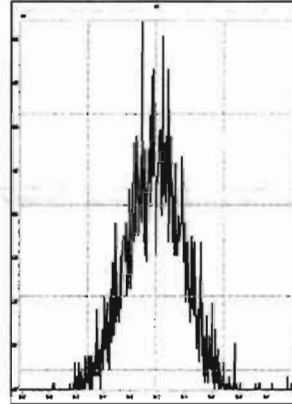
M 480.9696 R 12437



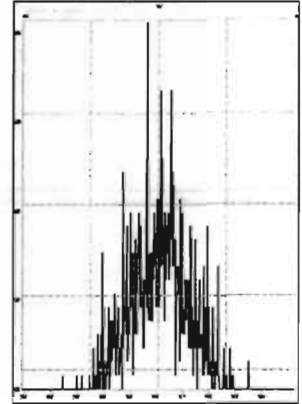
M 492.9696 R 12623



M 504.9696 R 13157



M 516.9697 R 15626



HKMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST2012SR2-1

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"/> <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>	<u>GPB</u>
<u>Run Log:</u>		
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> <u>Y</u>	<input type="checkbox"/> <u>N</u>
- Bottle position verified?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

	<u>Ⓐ Beg.</u>	<u>Ⓑ End</u>
Mass resolution ≥	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
GC Break <20%		<input type="checkbox"/> <u>NA</u>
<u>8280 CS1 End Standard:</u>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> <u>NA</u>

Comments:

Ⓐ BEGINNING RES CHECK FAILED TO PRINT DUE TO SOFTWARE ISSUE. BEG. RES CHECK FOR 2012SR1 ALSO USED AS BEG RES CHECK FOR 2012SR2

Ⓑ 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

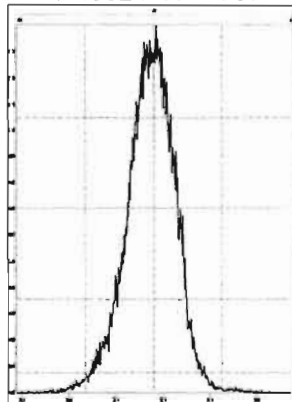
Compound name: 2,3,7,8-TCDD

	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

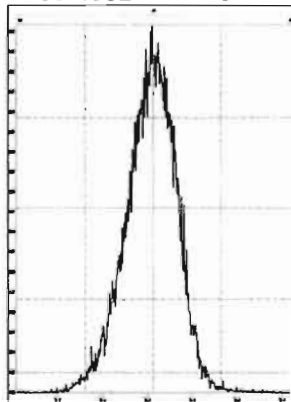
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

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

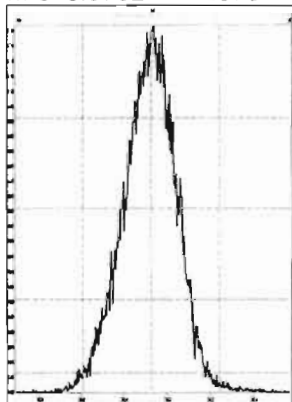
M 292.9824 R 11797



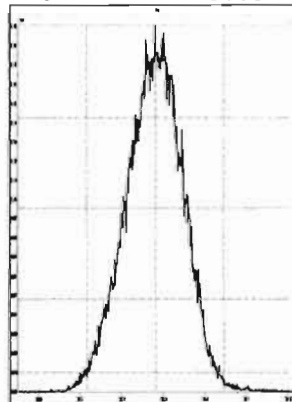
M 304.9824 R 12014



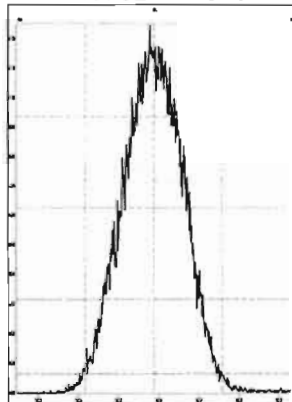
M 318.9792 R 12075



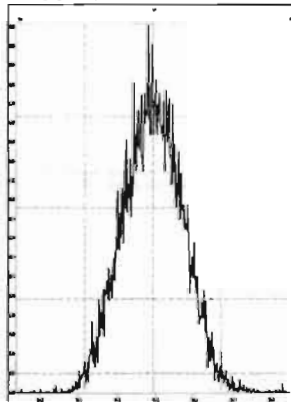
M 330.9792 R 10639



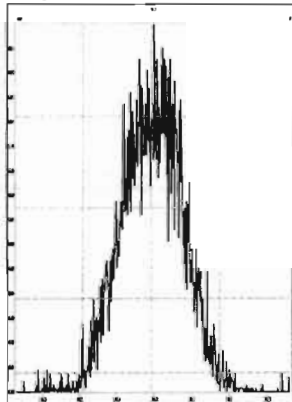
M 342.9792 R 10038



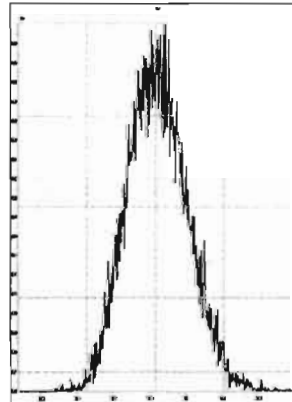
M 354.9792 R 10865



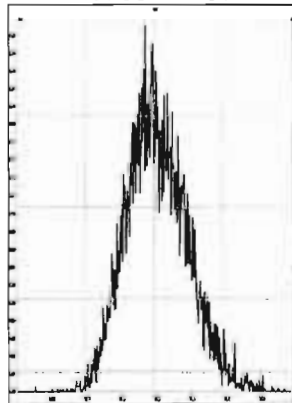
M 366.9792 R 10506



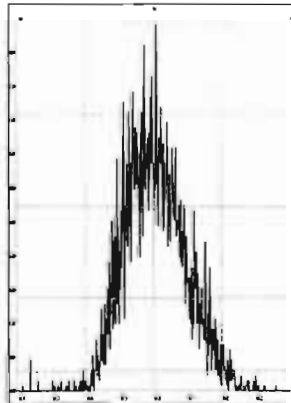
M 380.9760 R 10162



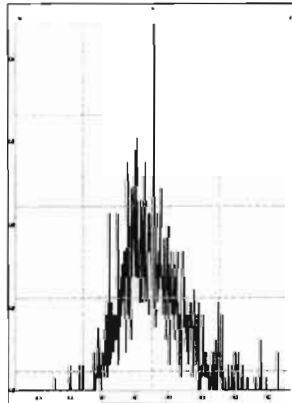
M 392.9760 R 10967



M 404.9760 R 11363



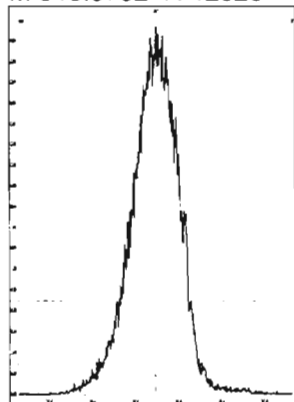
M 416.9760 R 12256



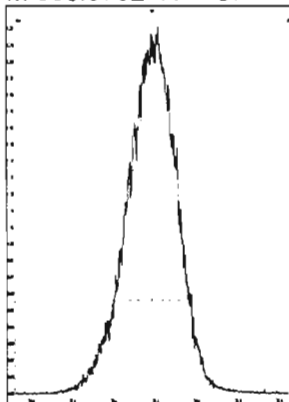
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

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

M 318.9792 R 12626



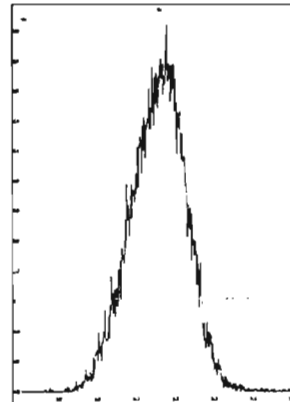
M 330.9792 R 11571



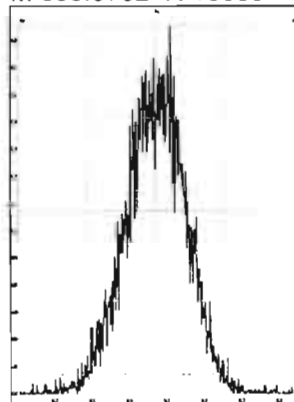
M 342.9792 R 11160



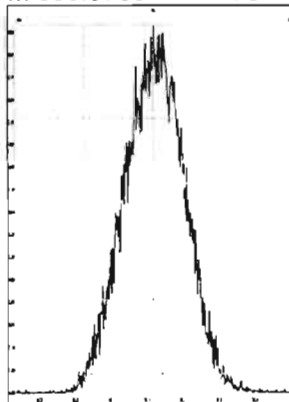
M 354.9792 R 10824



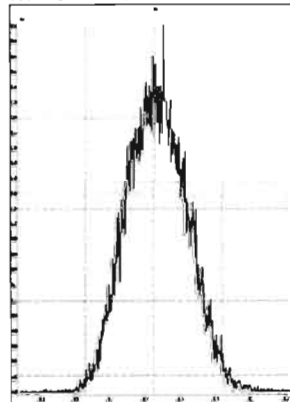
M 366.9792 R 10080



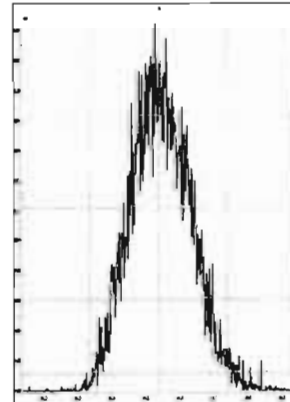
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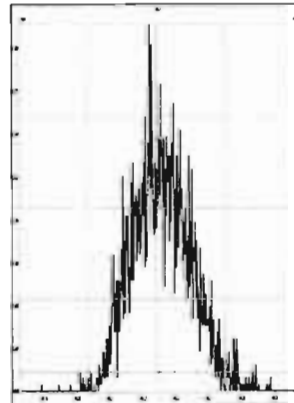
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M 404.9760 R 10327



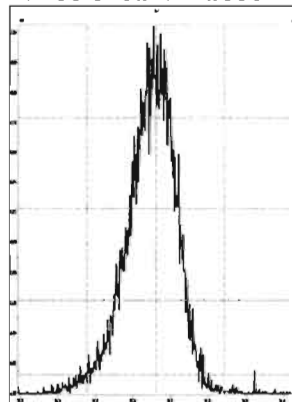
M 416.9760 R 11573



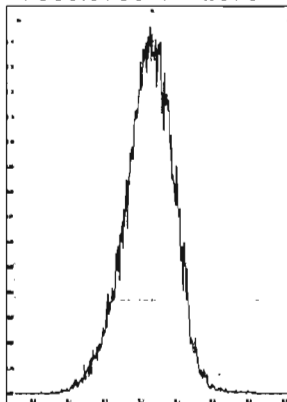
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Printed: Wednesday, November 25, 2020 10:05:02 Pacific Standard Time

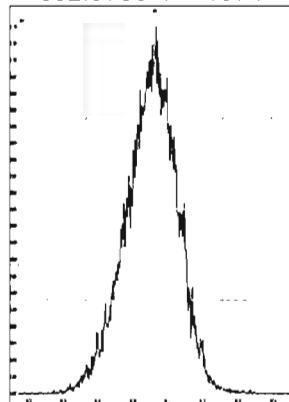
M 366.9792 R 12690



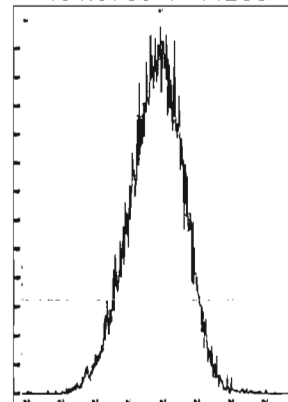
M 380.9760 R 12075



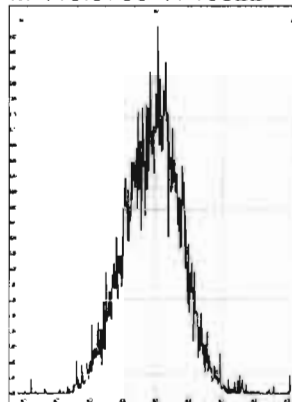
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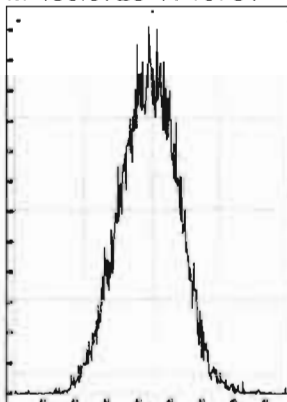
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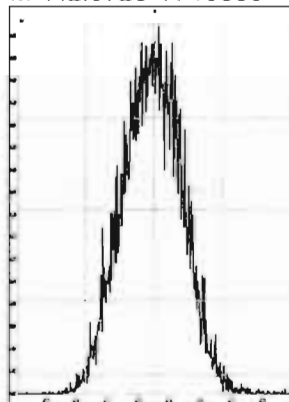
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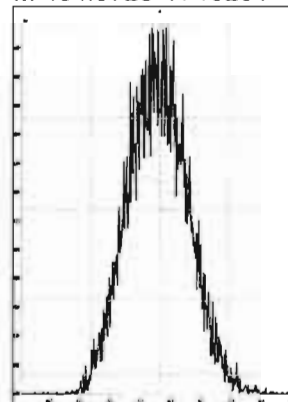
M 430.9728 R 10731



M 442.9728 R 10330



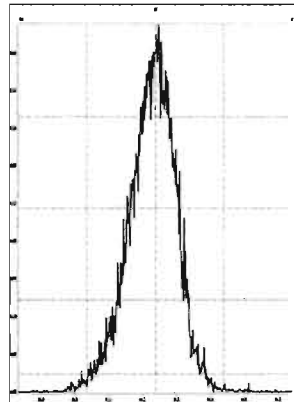
M 454.9728 R 10201



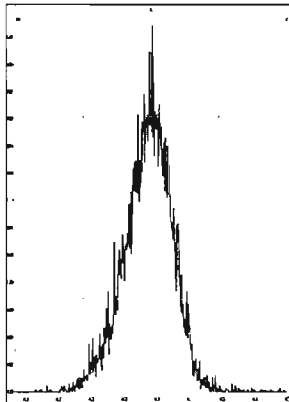
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Printed: Wednesday, November 25, 2020 10:05:26 Pacific Standard Time

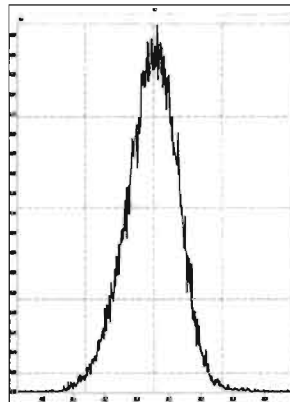
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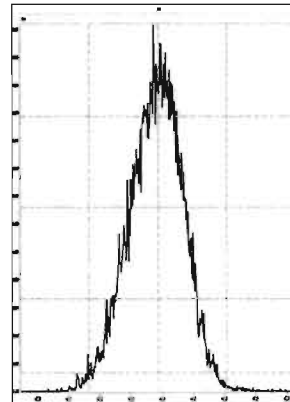
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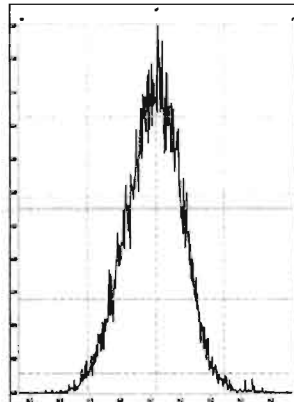
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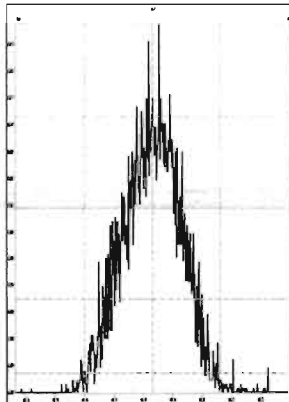
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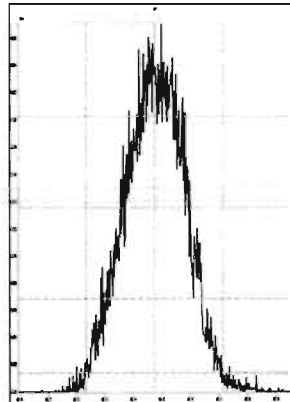
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M 466.9728 R 11905



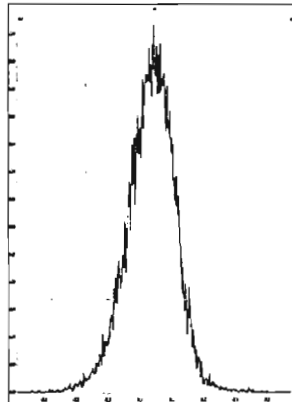
M 480.9696 R 10506



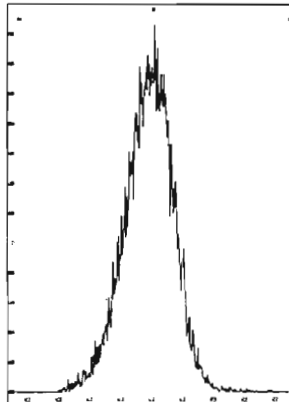
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Printed: Wednesday, November 25, 2020 10:05:48 Pacific Standard Time

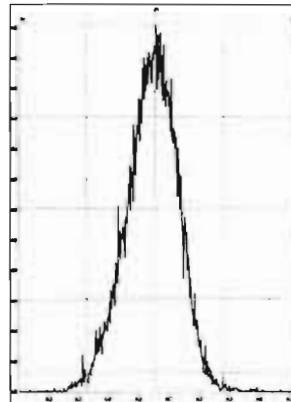
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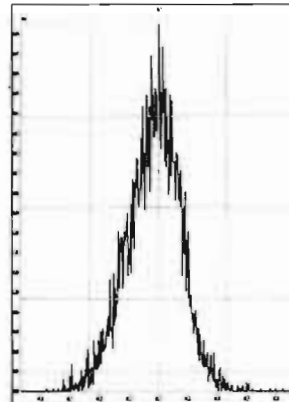
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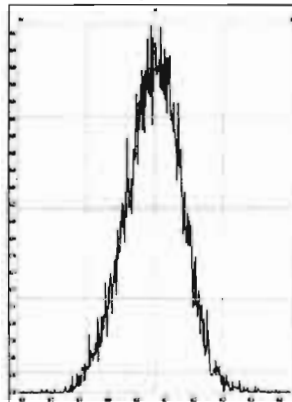
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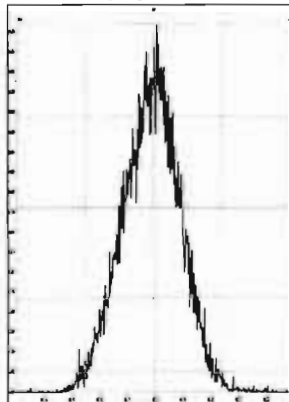
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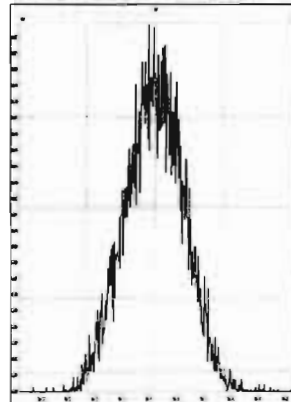
M 480.9696 R 10204



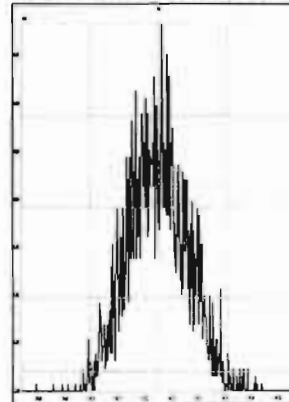
M 492.9696 R 11011



M 504.9696 R 10460



M 516.9697 R 10824



Dataset: Untitled

Last Altered: 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

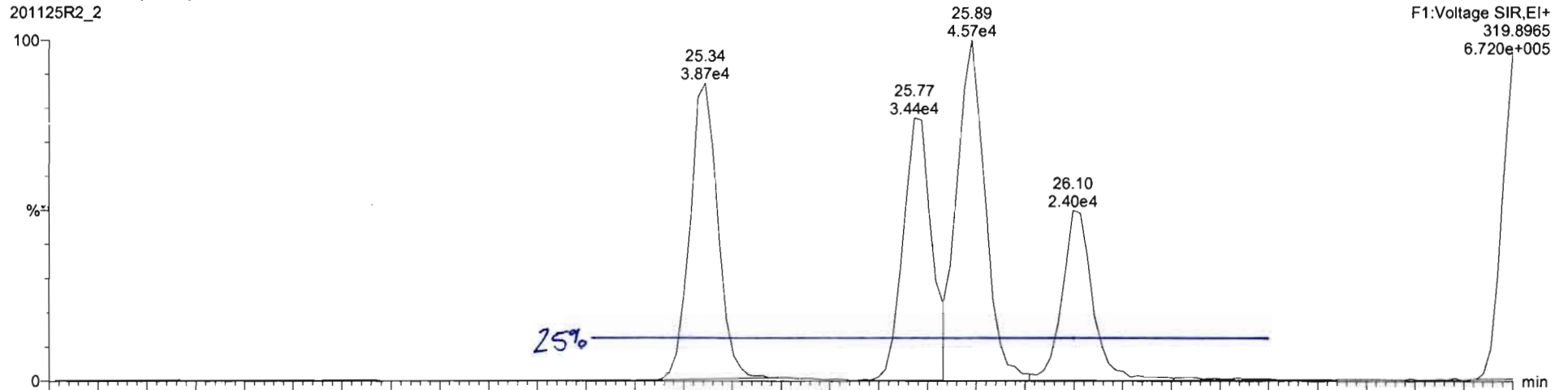
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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

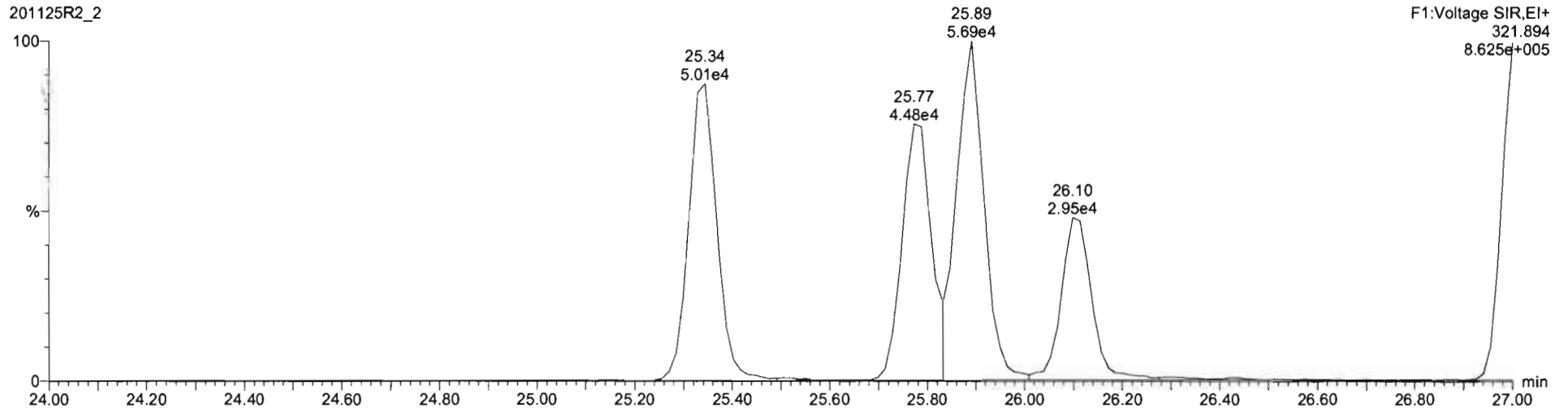
Name: 201125R2_2, Date: 25-Nov-2020, Time: 22:16:41, ID: ST201125R2_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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

201125R2_2



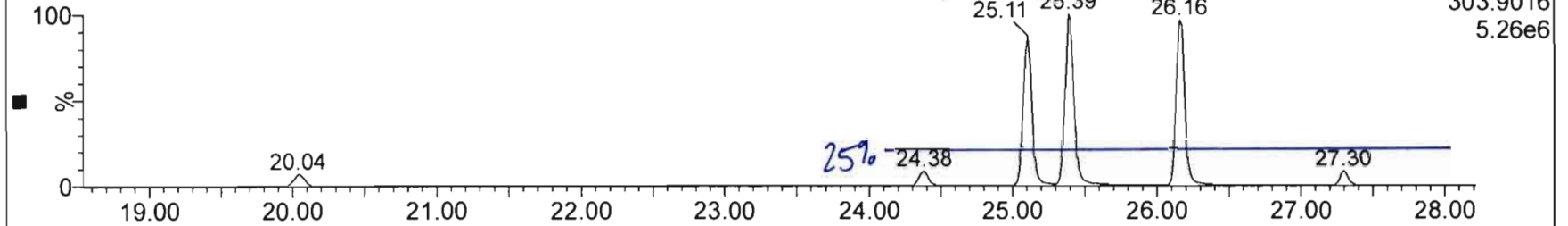
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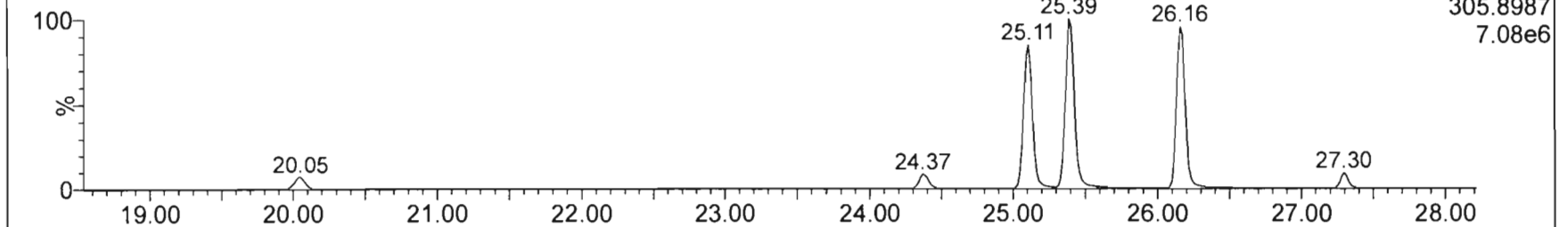
JAN 12/11/2020
GRB 11/21/2020

TCDF CPSM QC

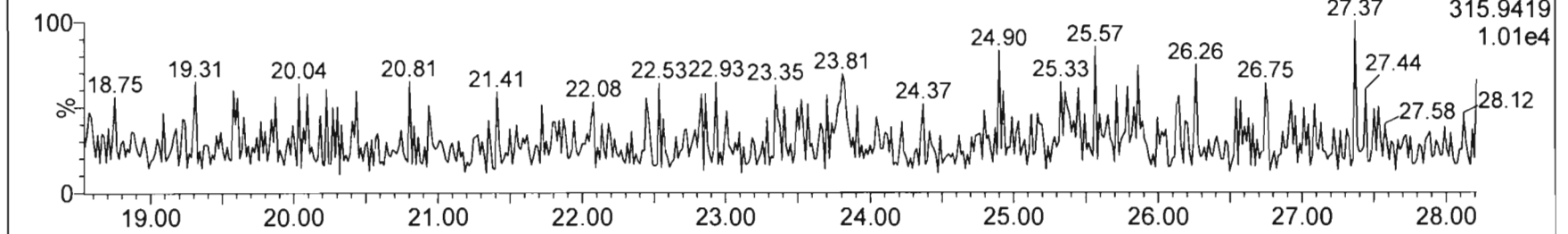
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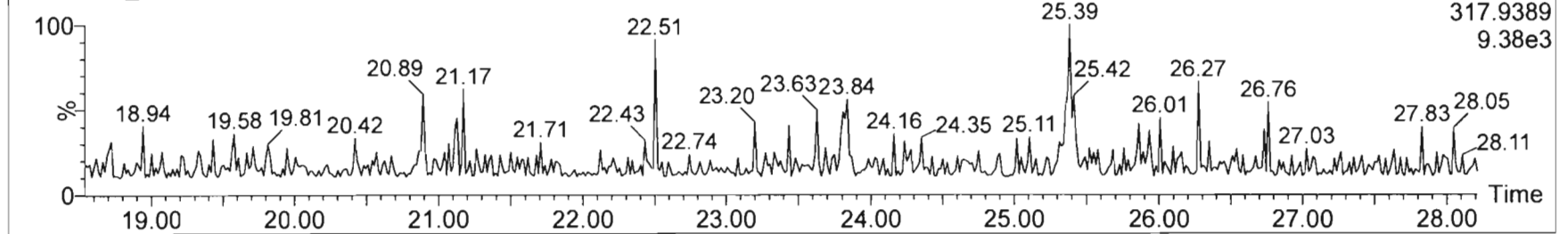
201125R2_3



201125R2_3



201125R2_3



Dataset: Untitled

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

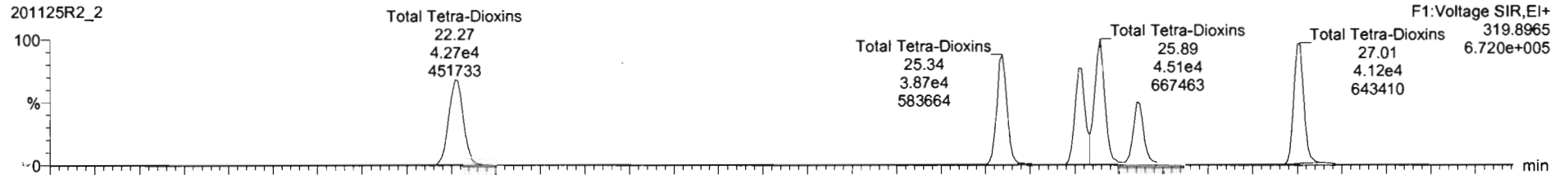
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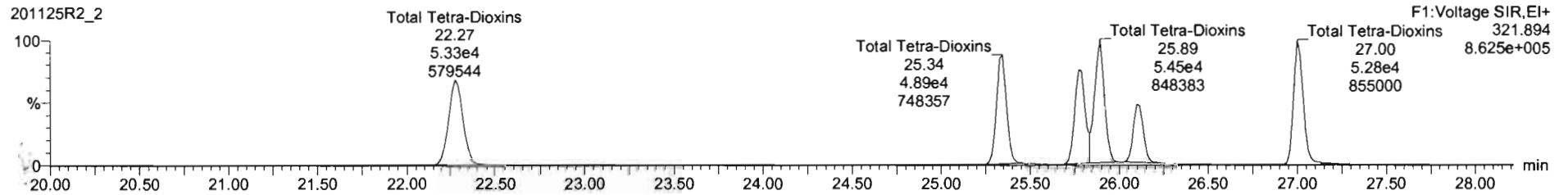
Name: 201125R2_2, Date: 25-Nov-2020, Time: 22:16:41, ID: ST201125R2_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

2,3,7,8-TCDD

201125R2_2

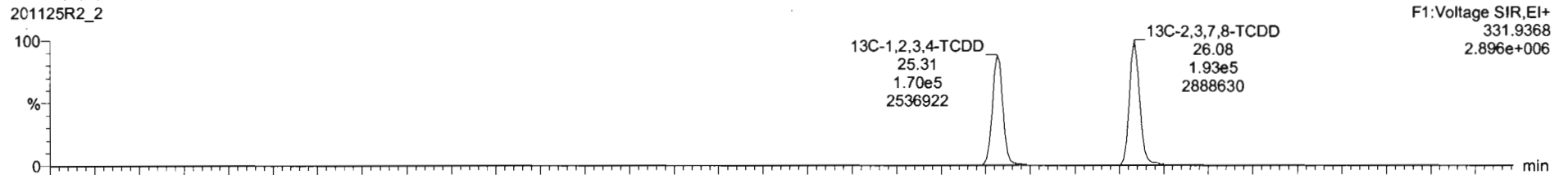


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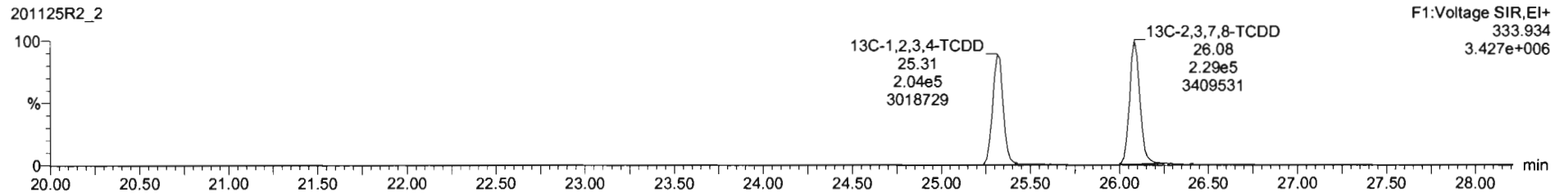


13C-2,3,7,8-TCDD

201125R2_2



201125R2_2



Dataset: Untitled

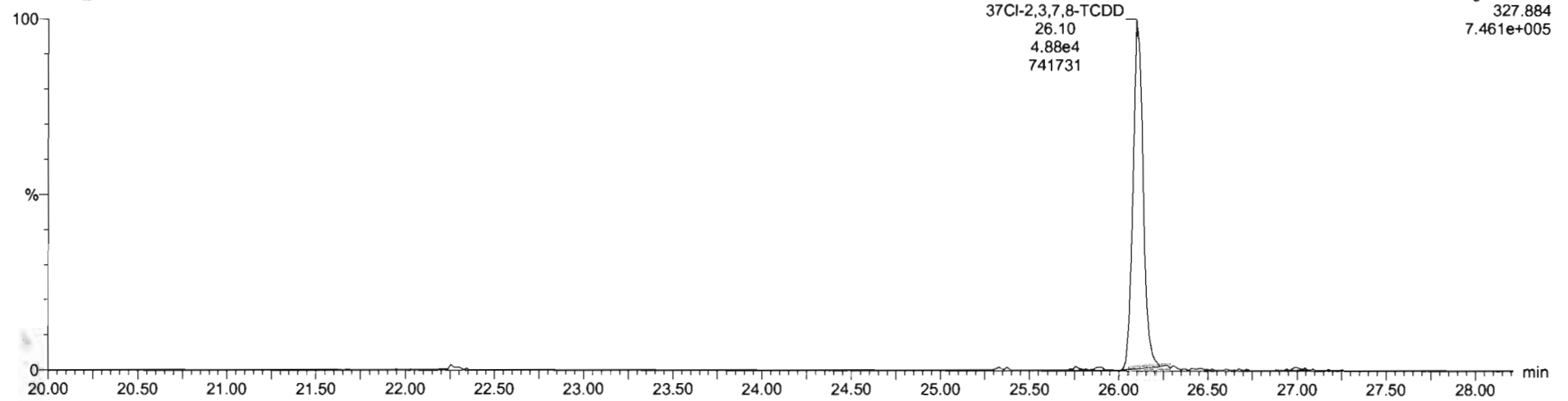
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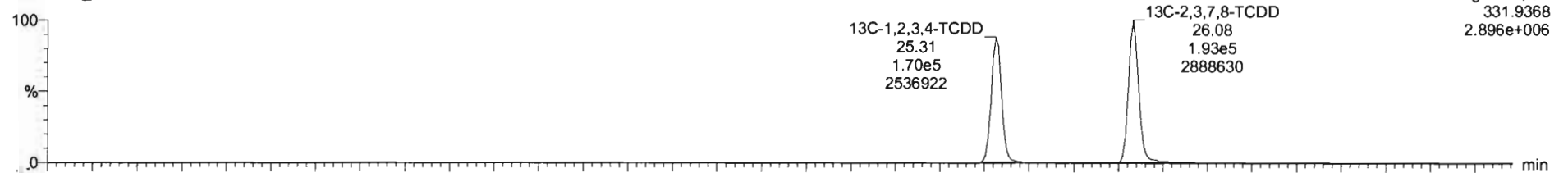
37Cl-2,3,7,8-TCDD

201125R2_2

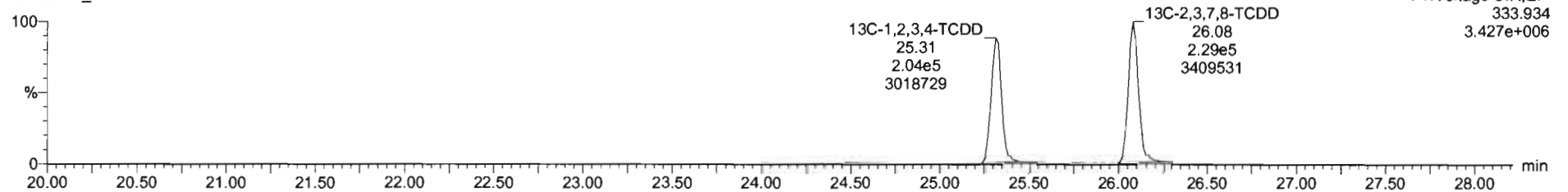


13C-1,2,3,4-TCDD

201125R2_2



201125R2_2



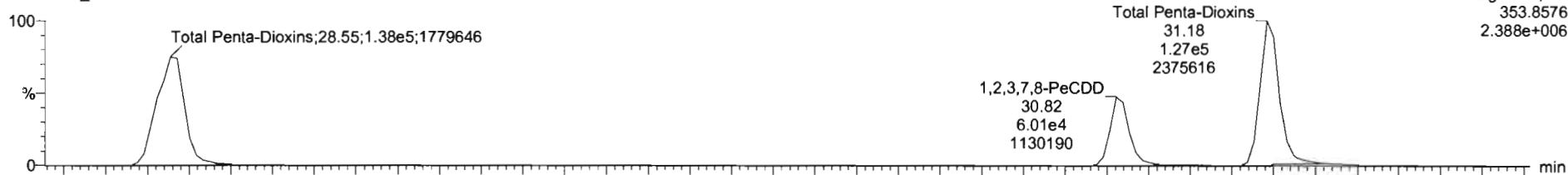
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Printed: Thursday, November 26, 2020 07:16:12 Pacific Standard Time

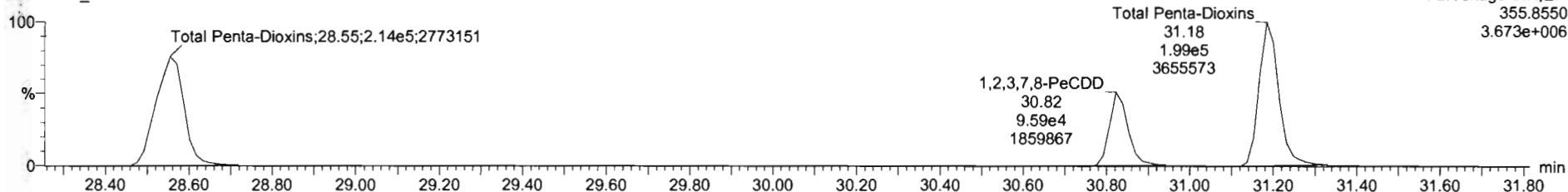
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1,2,3,7,8-PeCDD

201125R2_2

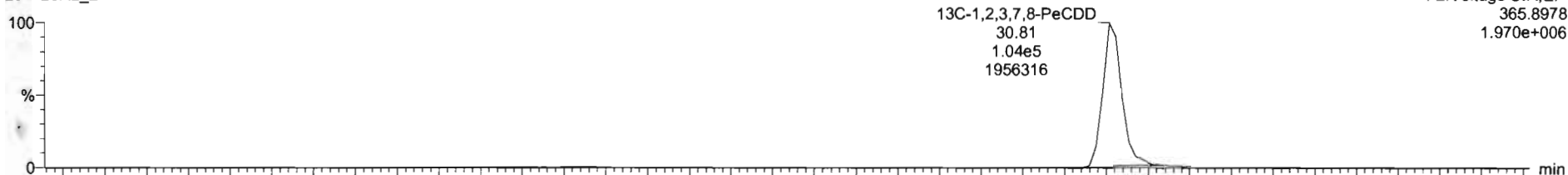


201125R2_2

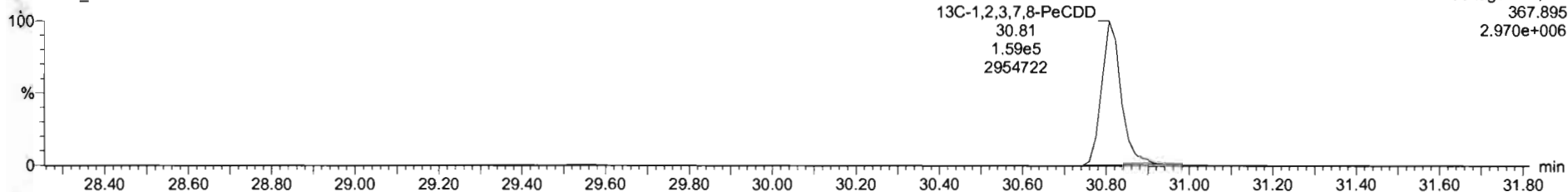


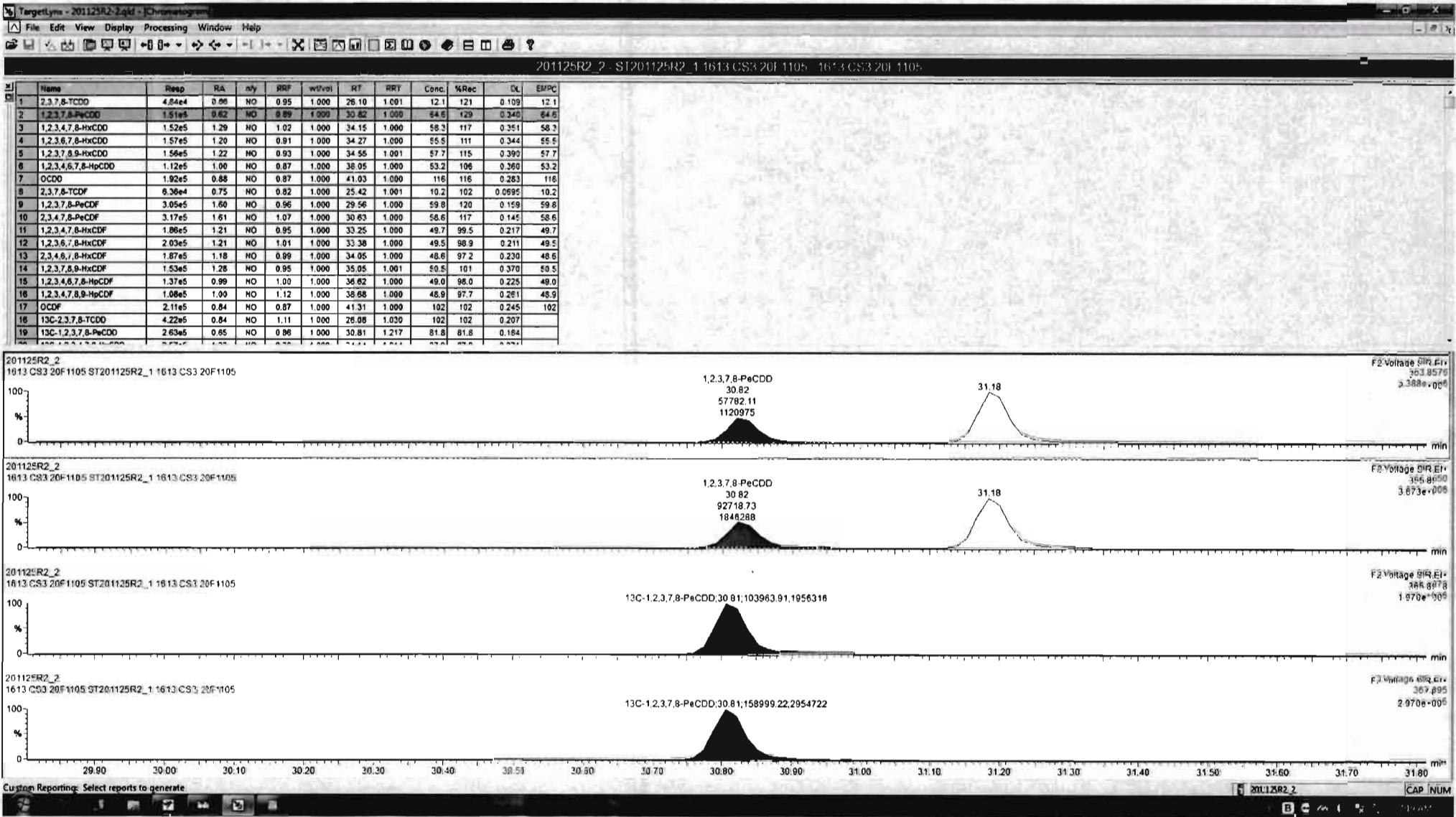
13C-1,2,3,7,8-PeCDD

201125R2_2



201125R2_2





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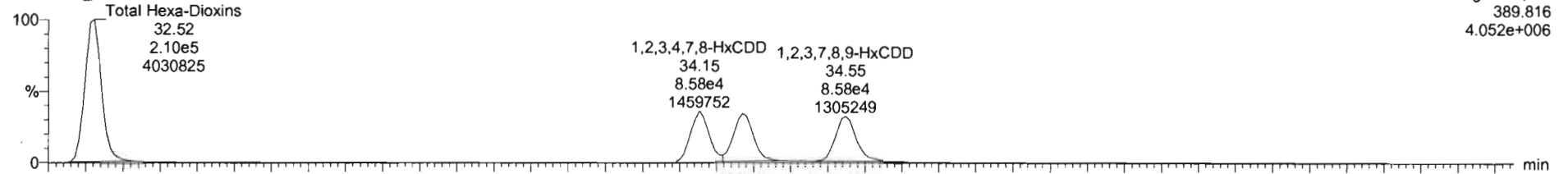
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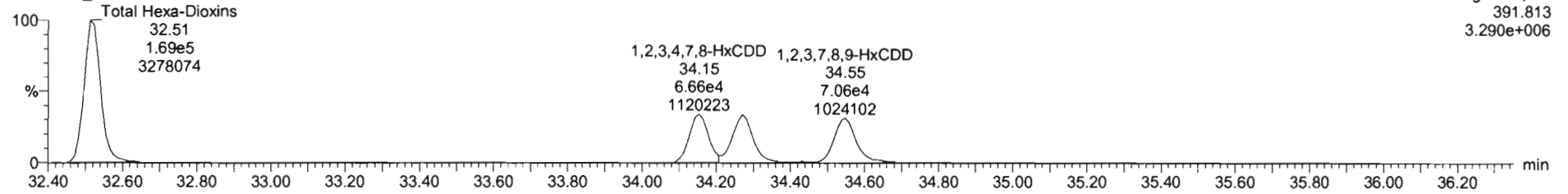
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1,2,3,4,7,8-HxCDD

201125R2_2

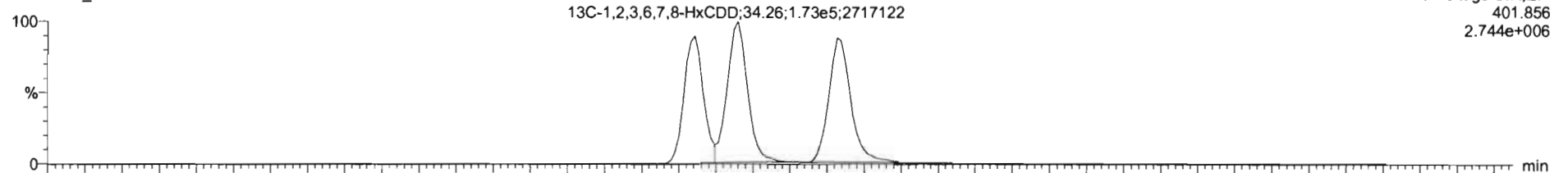


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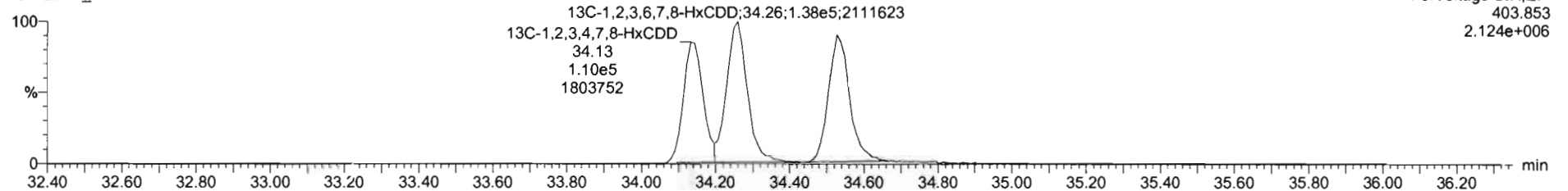


13C-1,2,3,4,7,8-HxCDD

201125R2_2



201125R2_2



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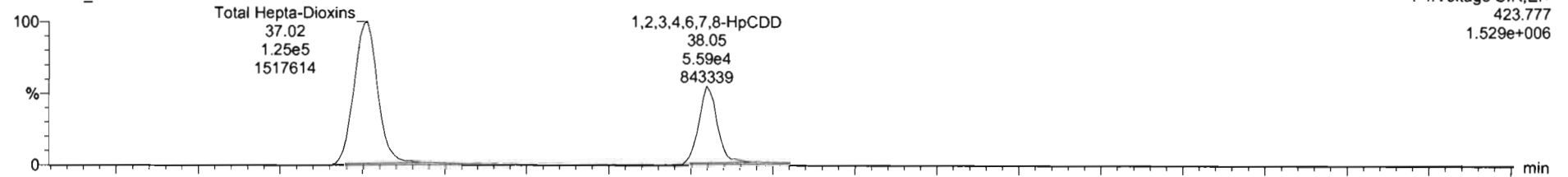
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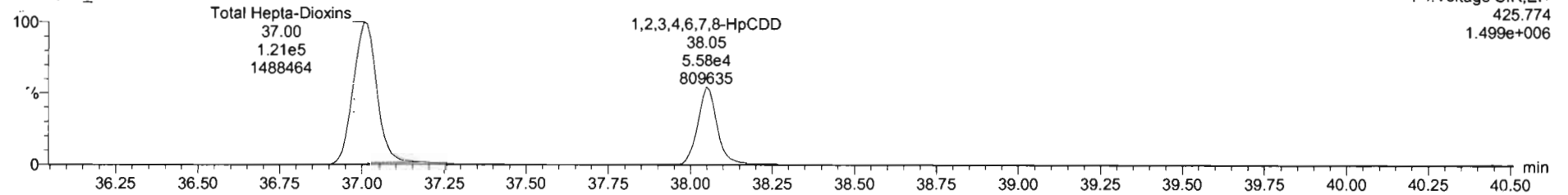
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201125R2_2

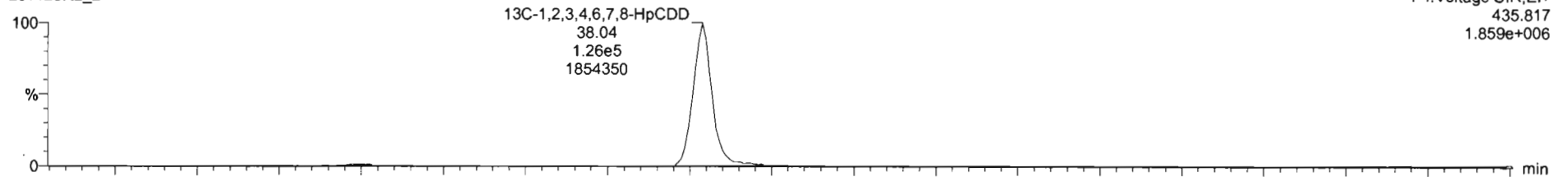


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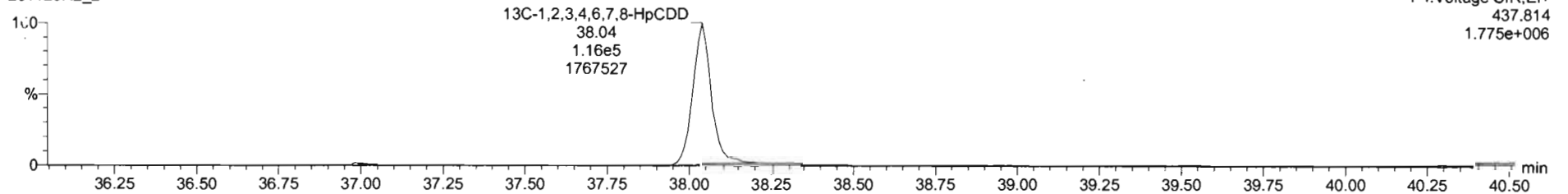


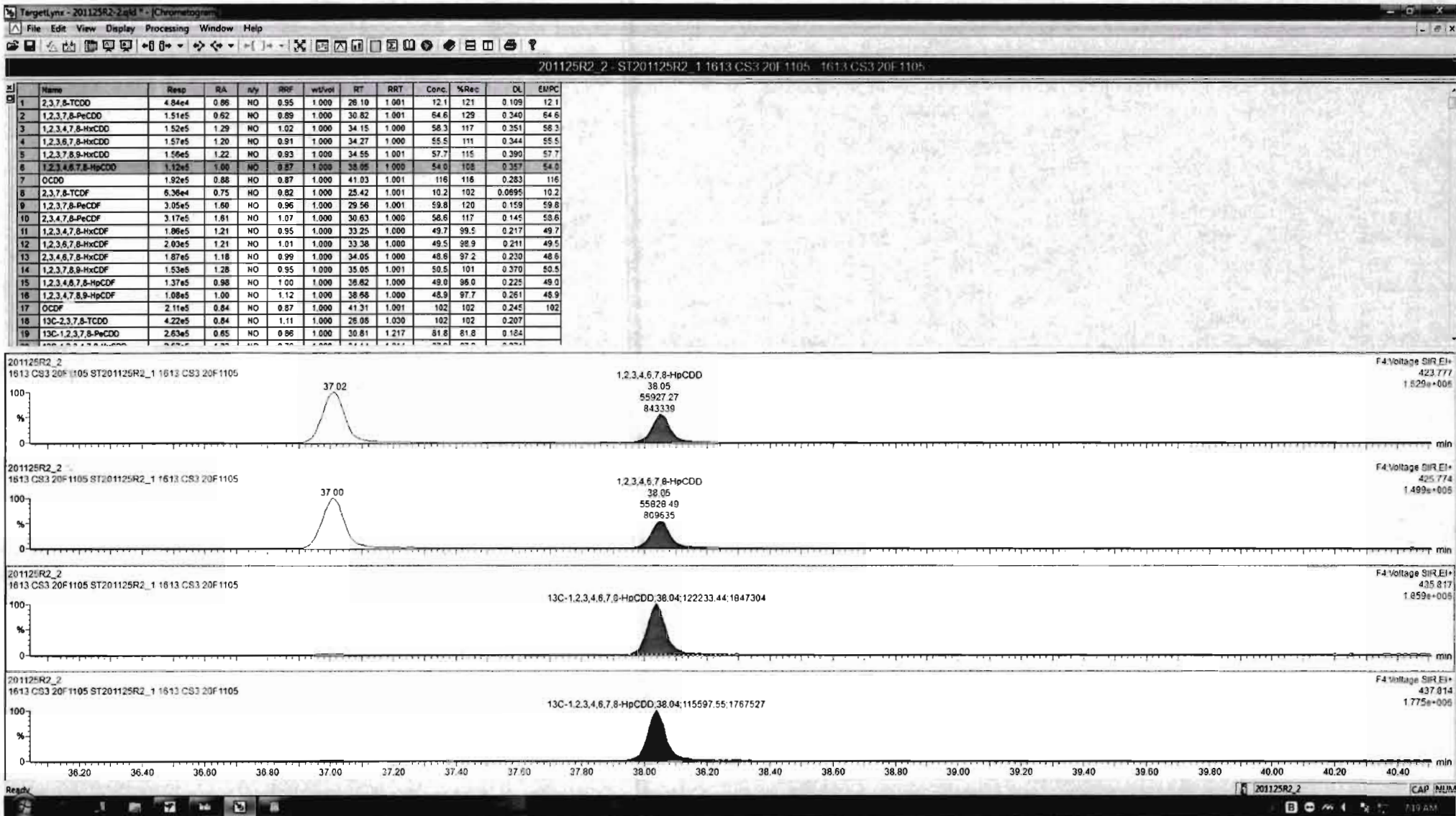
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201125R2_2



201125R2_2





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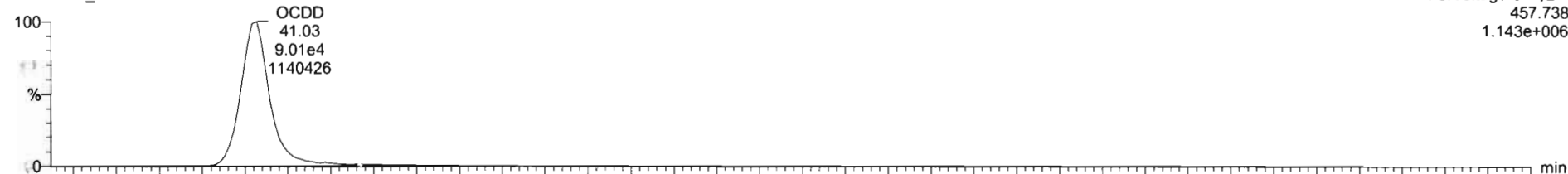
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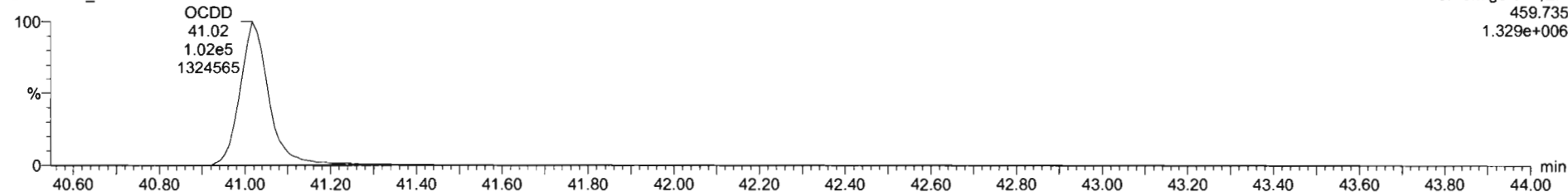
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OCDD

201125R2_2

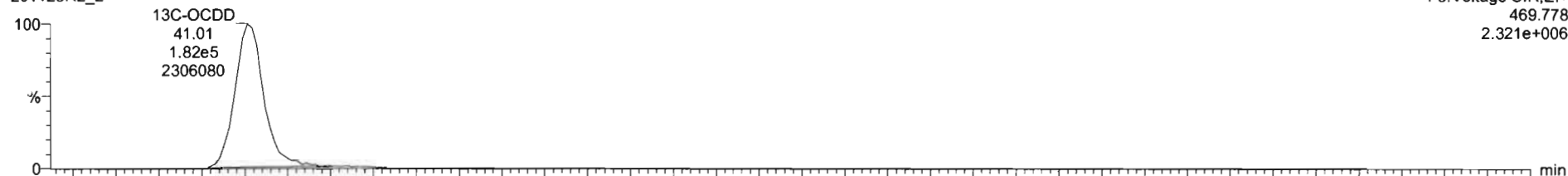


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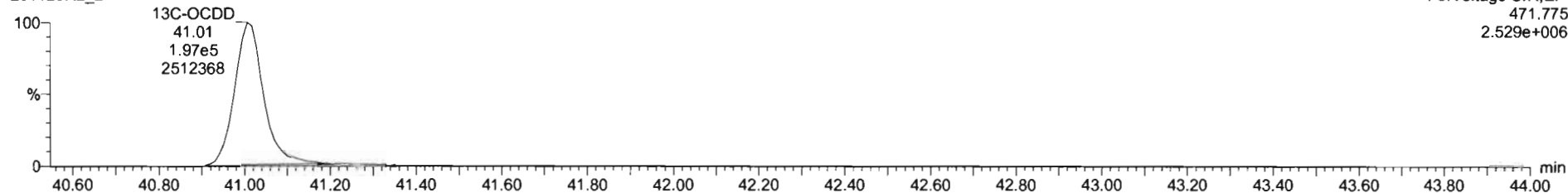


13C-OCDD

201125R2_2



201125R2_2

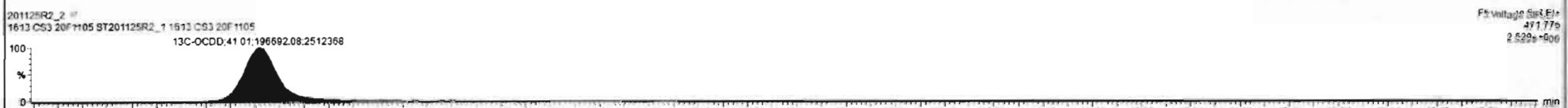
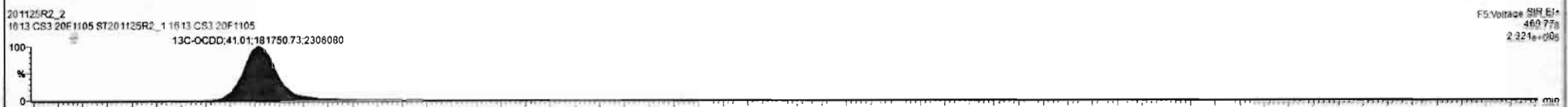


TargetLynx - 201125R2_2.qld F - [Chromatogram]

File Edit View Display Processing Window Help

201125R2_2_1613 CS3 20F 1105 ST201125R2_1 1613 CS3 20F 1105

#	Name	Resp	RA	ny	RRF	wt%wt	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	0.84	NO	1.11	1.000	26.08	1.030	102	102	0.207	
19	13C-1,2,3,7,8-PeCDD	2.63e5	0.85	NO	0.86	1.000	30.81	1.217	81.8	81.8	0.184	

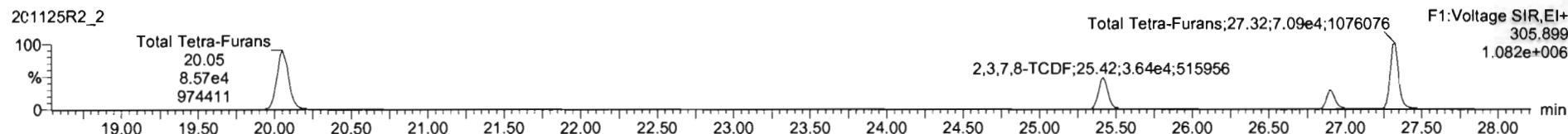
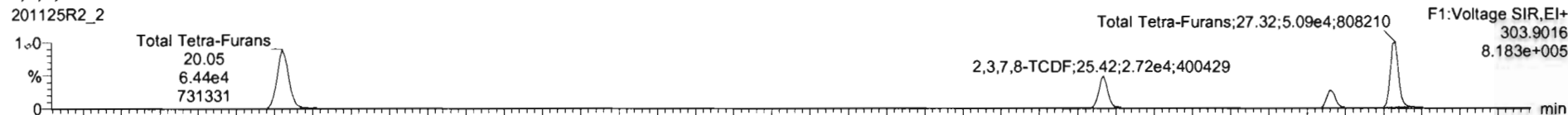


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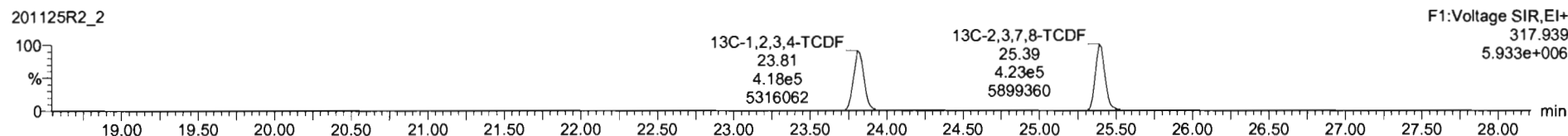
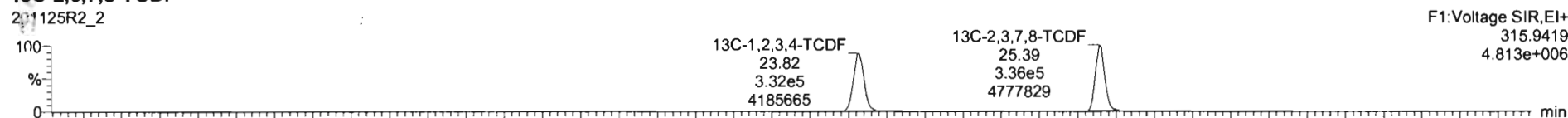
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Printed: Thursday, November 26, 2020 07:16:12 Pacific Standard Time

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

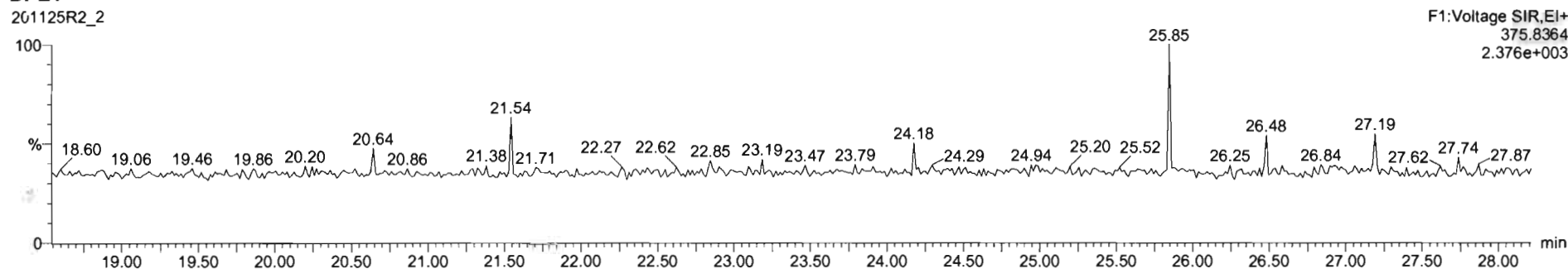
2,3,7,8-TCDF



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



DPE1



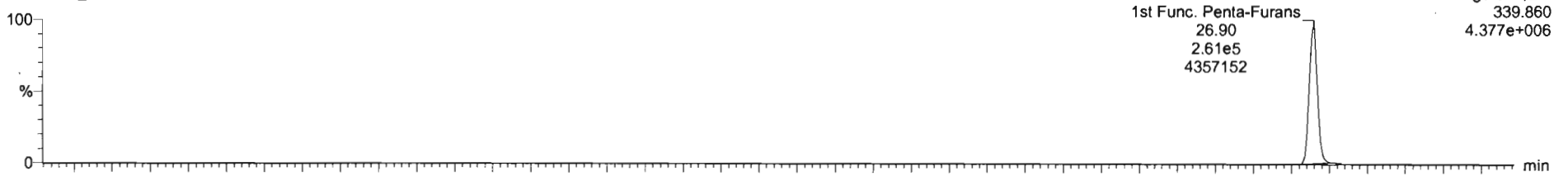
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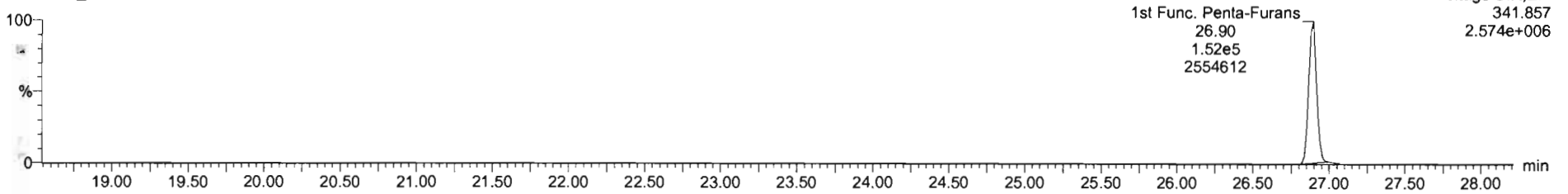
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201125R2_2

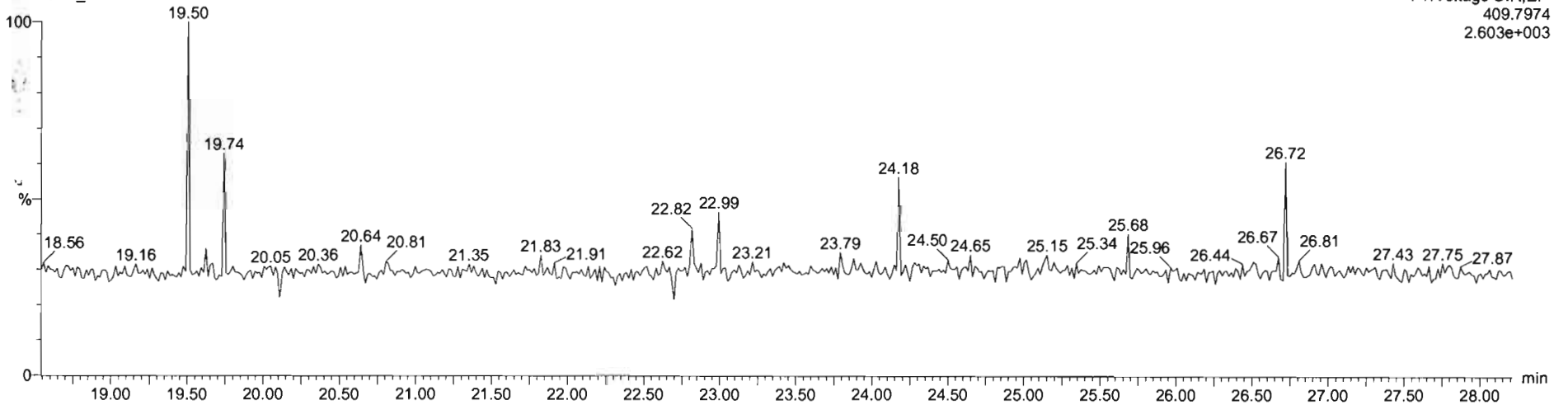


201125R2_2



DPE6

201125R2_2



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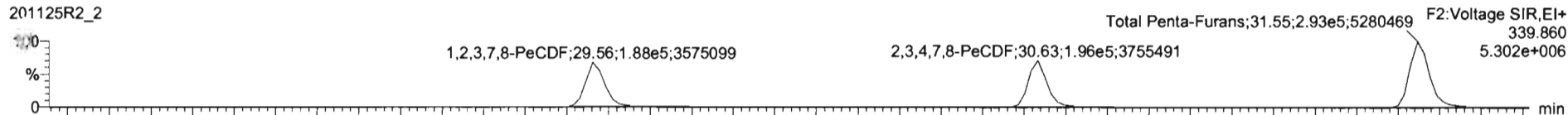
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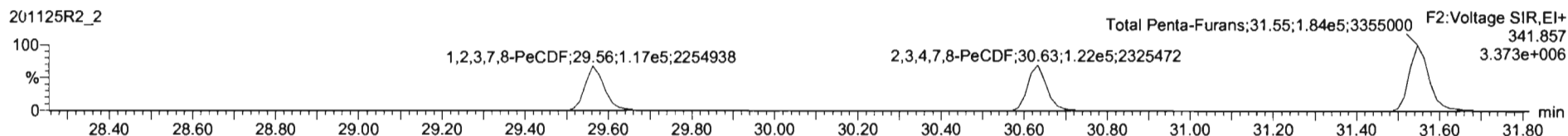
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1,2,3,7,8-PeCDF

201125R2_2

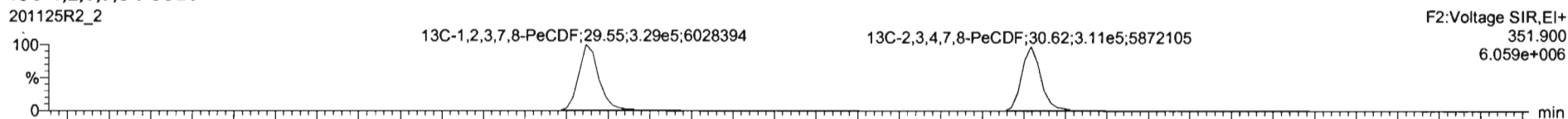


201125R2_2

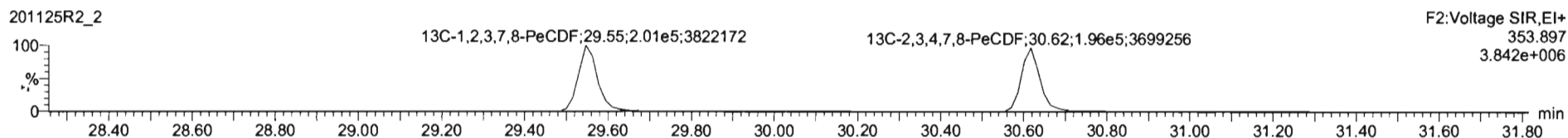


13C-1,2,3,7,8-PeCDF

201125R2_2

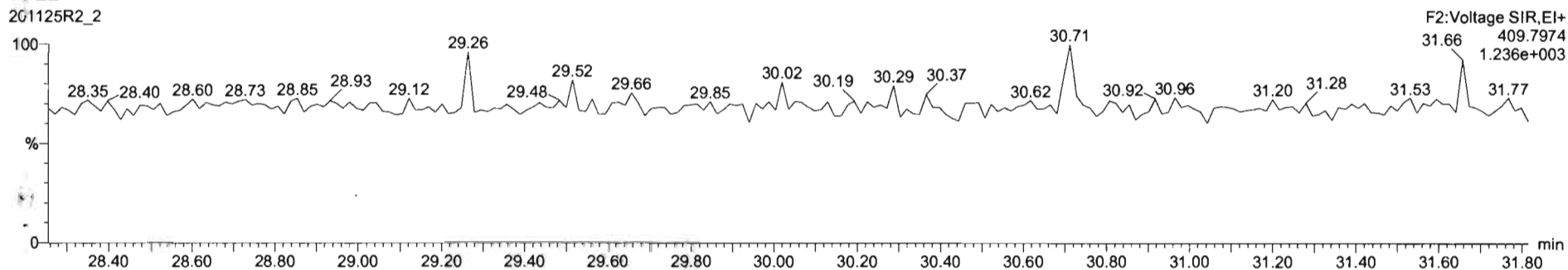


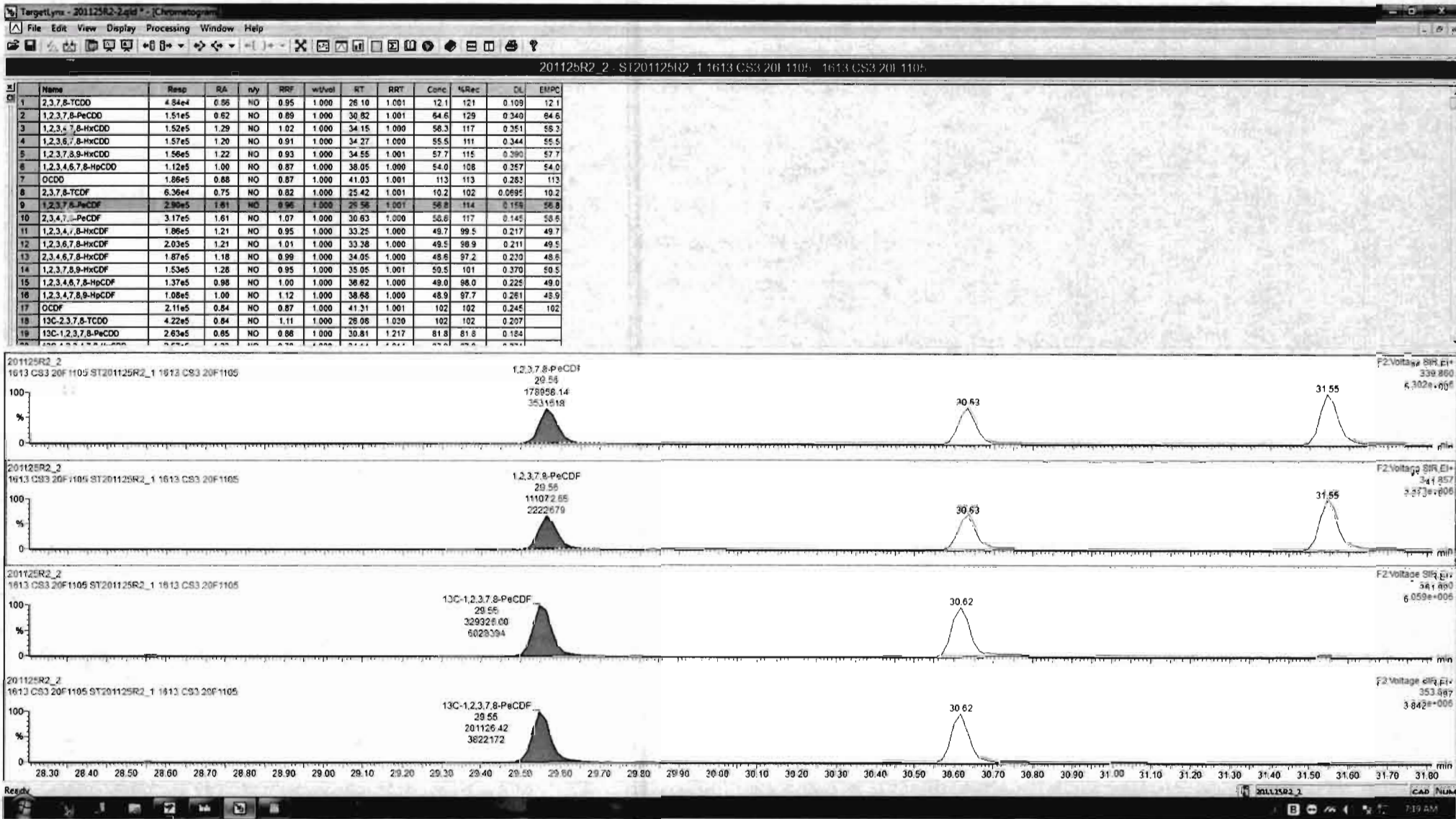
201125R2_2



DPE2

201125R2_2





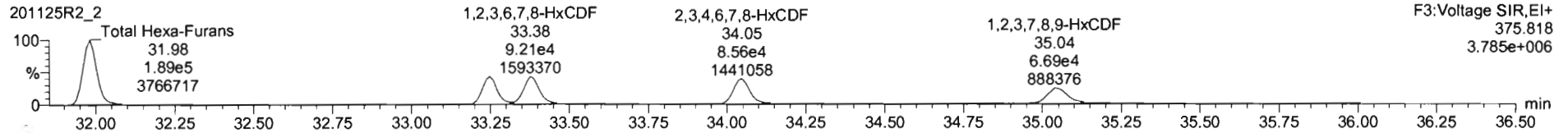
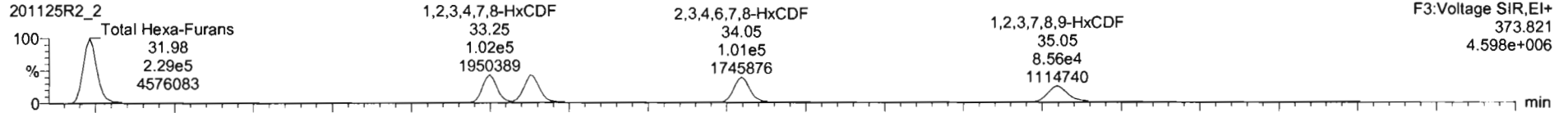
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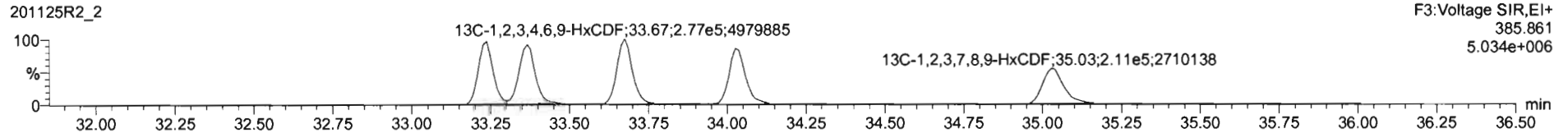
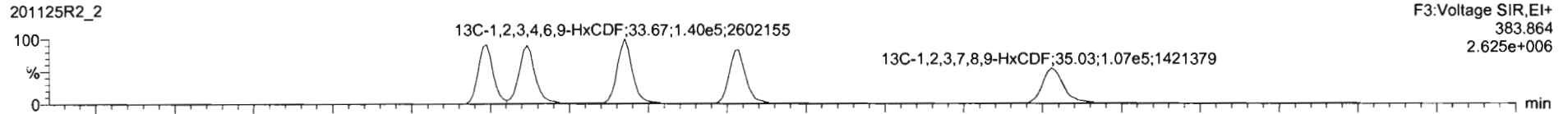
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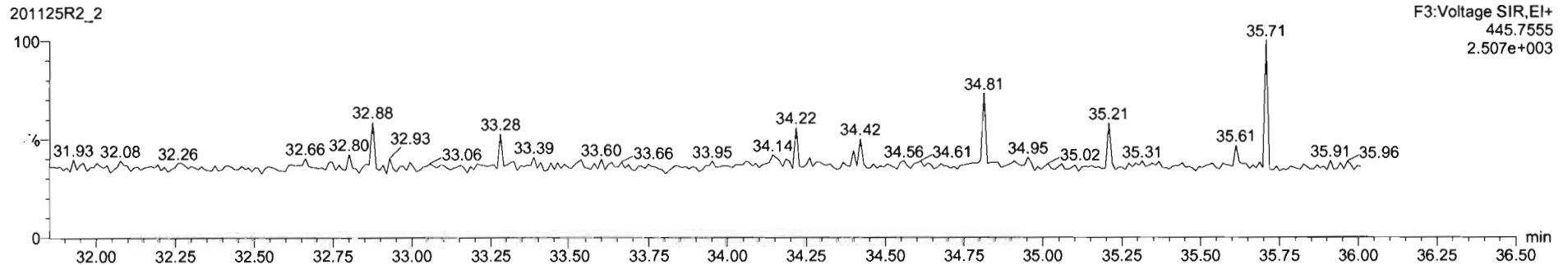
1,2,3,4,7,8-HxCDF



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



DPE3



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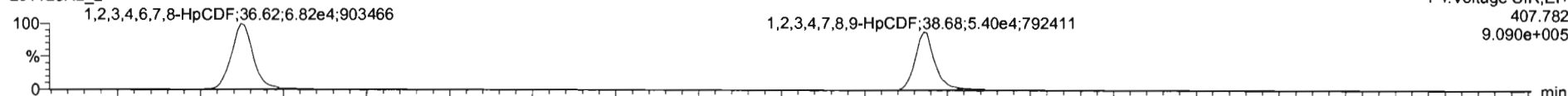
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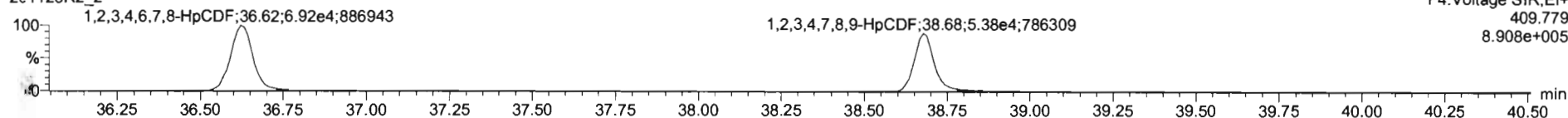
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1,2,3,4,6,7,8-HpCDF

201125R2_2

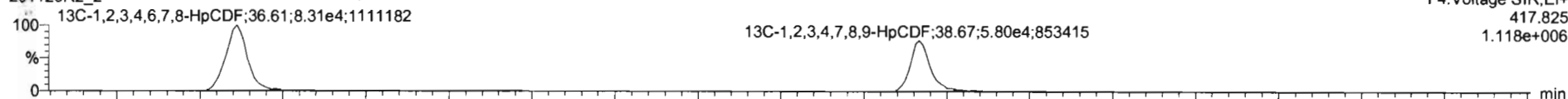


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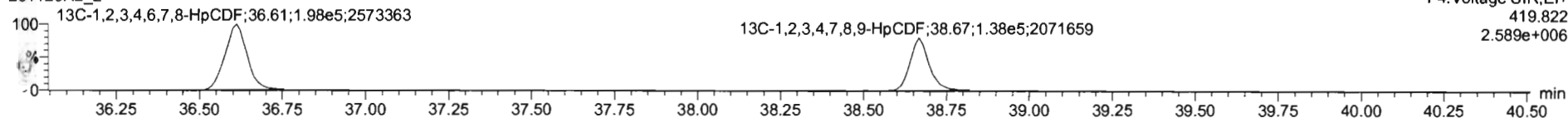


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201125R2_2

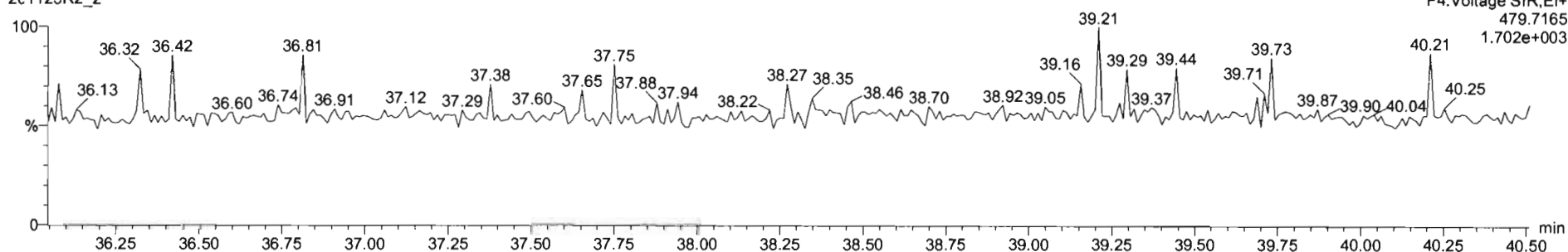


201125R2_2



DPE4

201125R2_2



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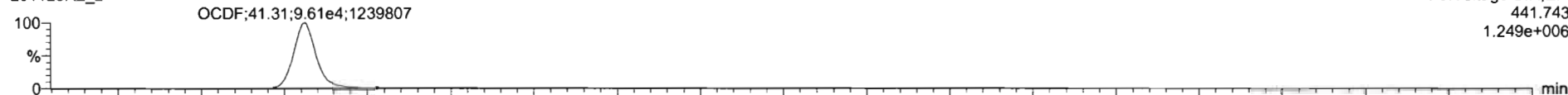
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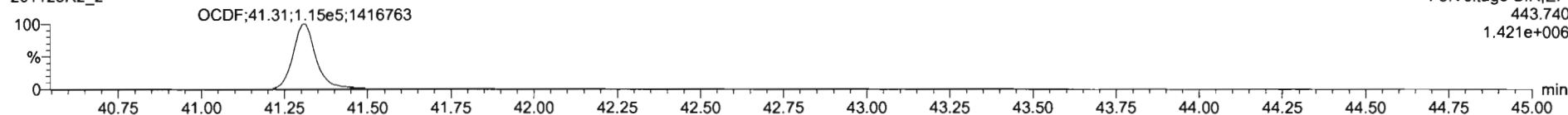
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C;DF

201125R2_2

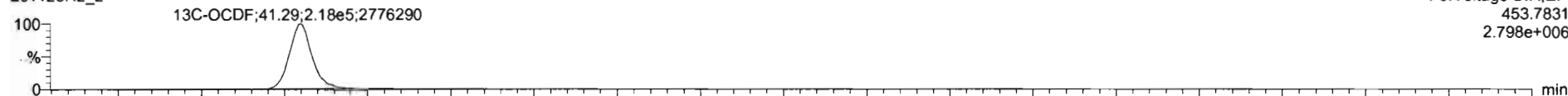


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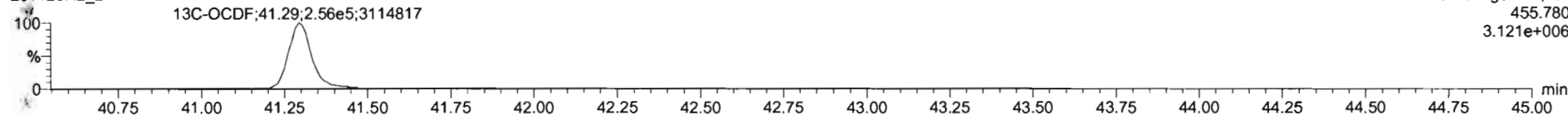


13C-OCDF

201125R2_2

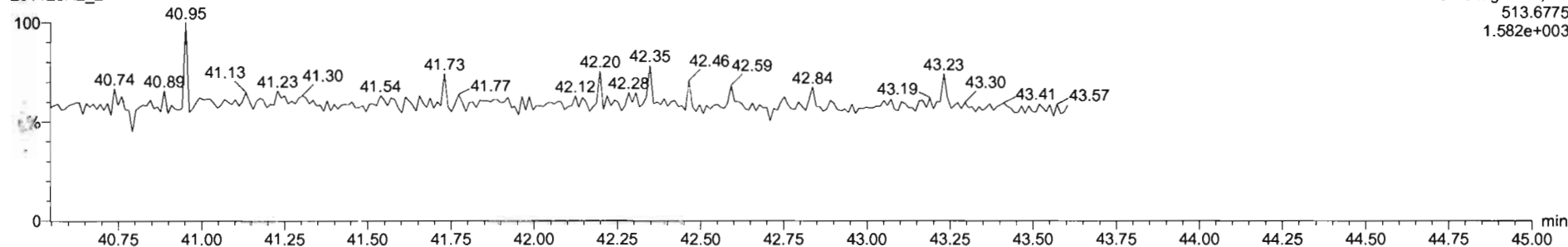


201125R2_2



DPE5

201125R2_2

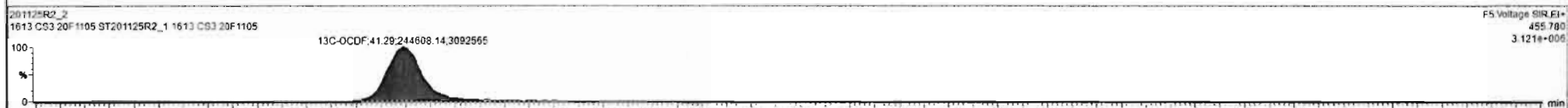
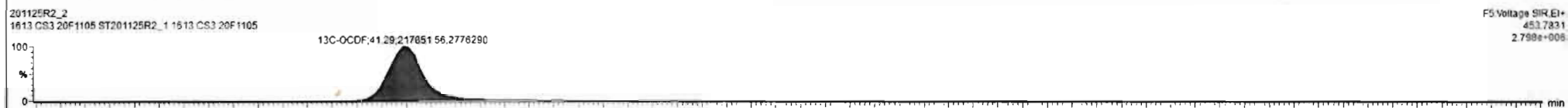
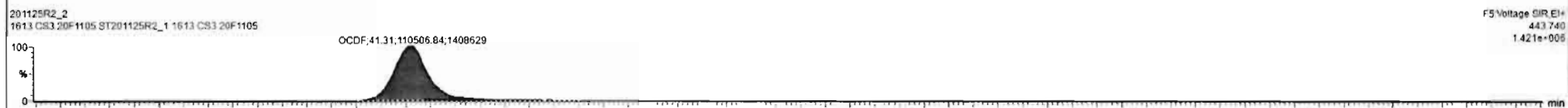
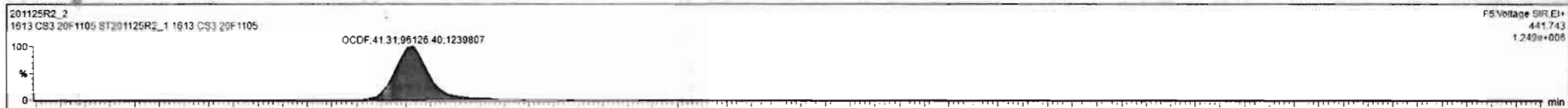


TargetLynx 201125R2-2.qld - [Chromatogram]

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201125R2_2 - ST201125R2_1 1613 CS3 20F1105 1613 CS3 20F1105

#	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	

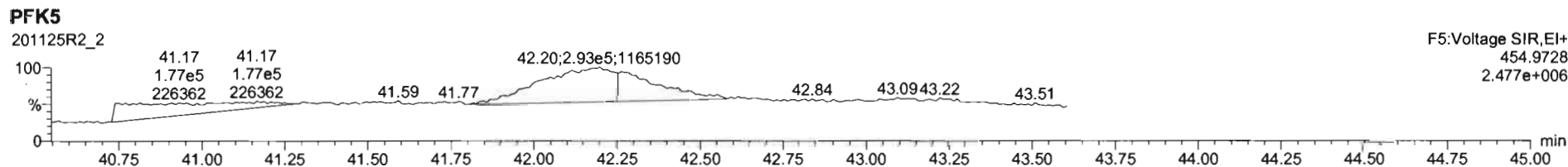
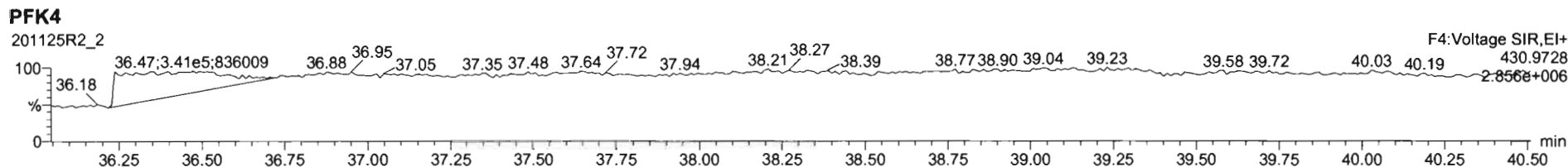
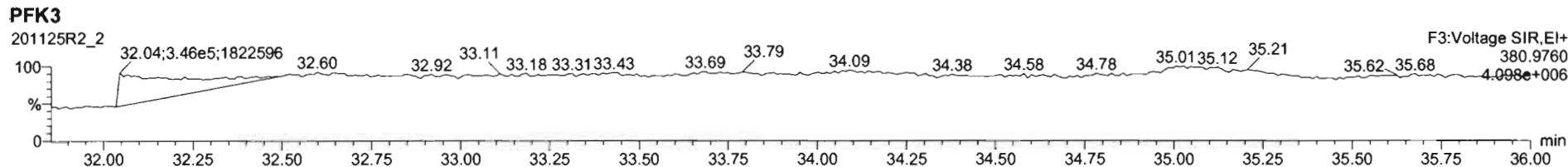
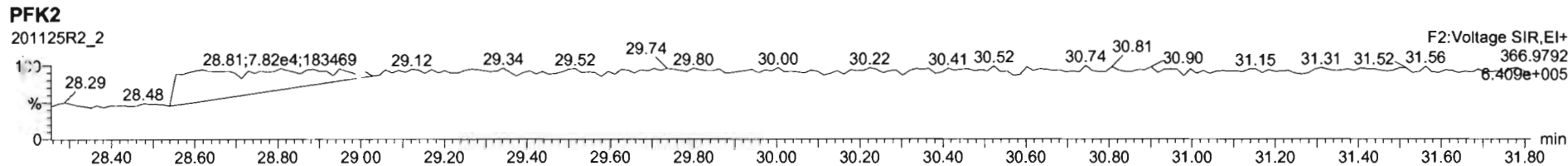
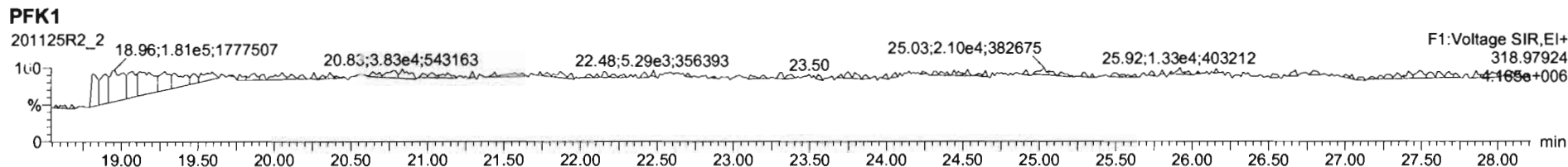


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Last Altered: Thursday, November 26, 2020 07:16:09 Pacific Standard Time

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

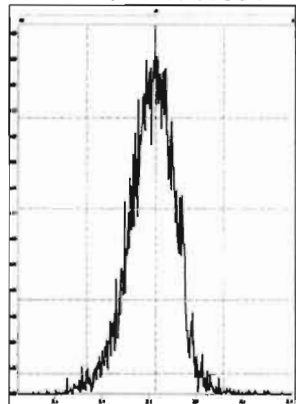
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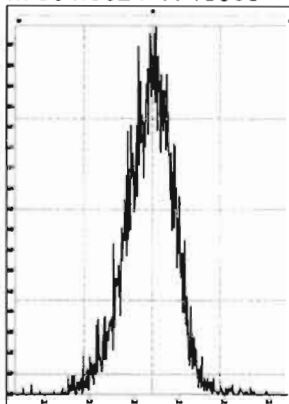
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Printed: Thursday, November 26, 2020 08:02:03 Pacific Standard Time

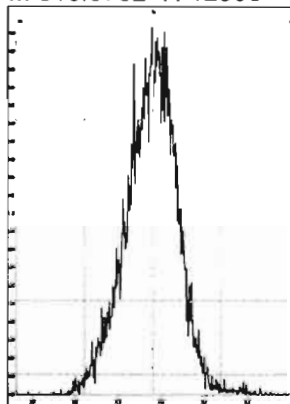
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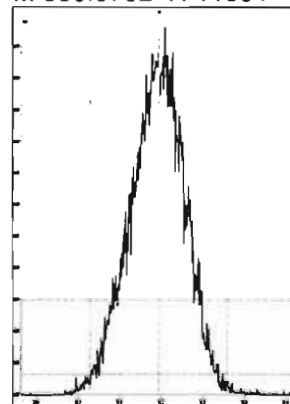
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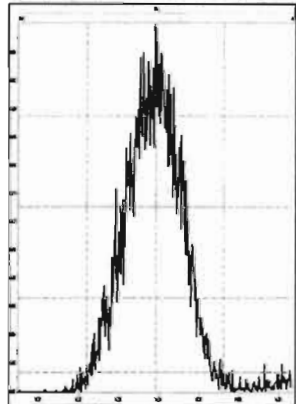
M 318.9792 R 12503



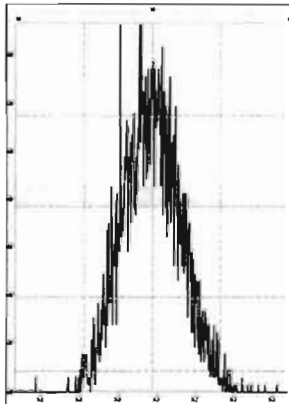
M 330.9792 R 11364



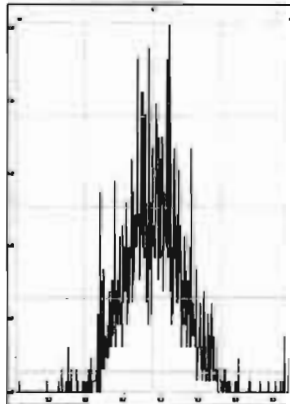
M 342.9792 R 11064



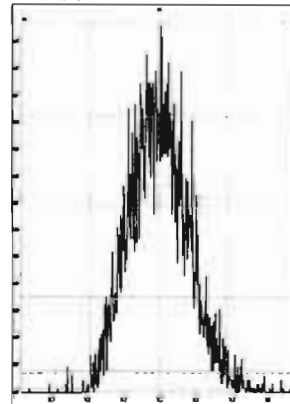
M 354.9792 R 10822



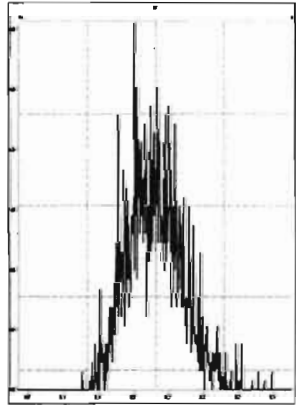
M 366.9792 R 11734



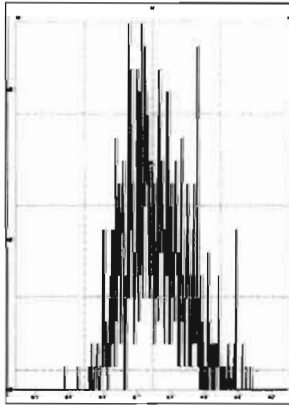
M 380.9760 R 11311



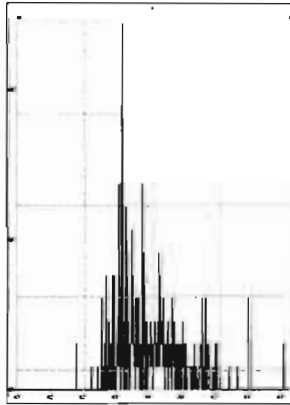
M 392.9760 R 13017



M 404.9760 R 14284



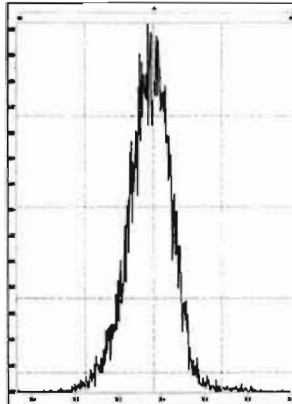
M 416.9760 R 26884



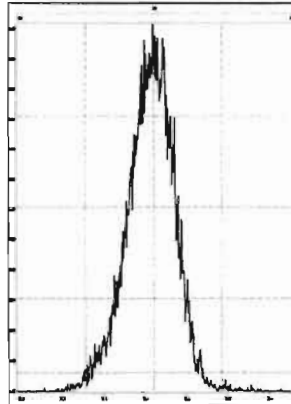
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

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

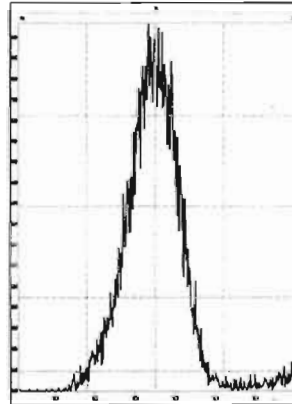
M 318.9792 R 14123



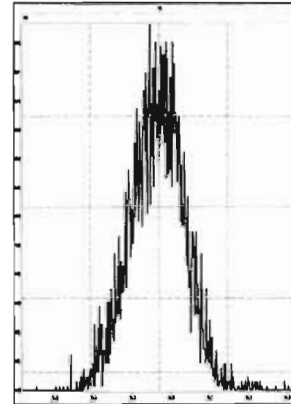
M 330.9792 R 12439



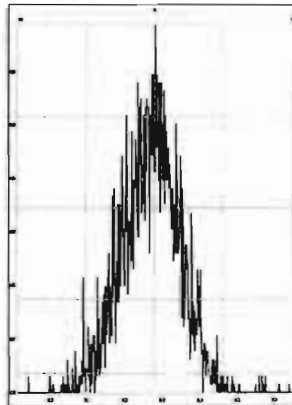
M 342.9792 R 11573



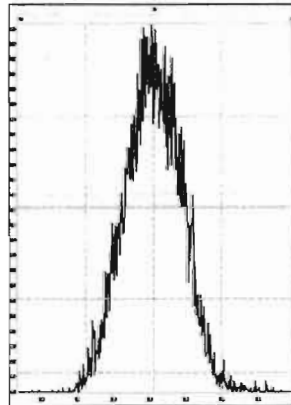
M 354.9792 R 12256



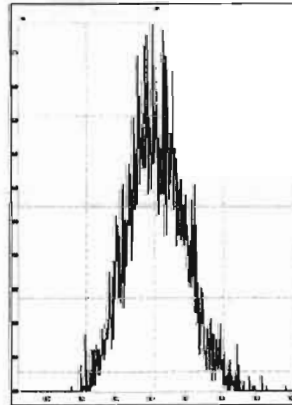
M 366.9792 R 12753



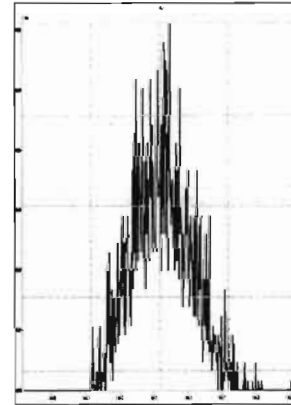
M 380.9760 R 11063



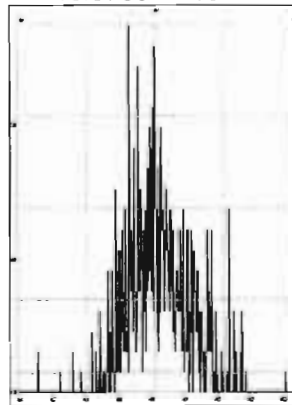
M 392.9760 R 11791



M 404.9760 R 12195



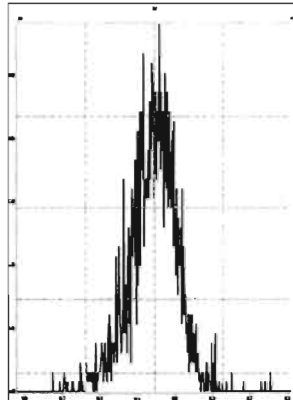
M 416.9760 R 16444



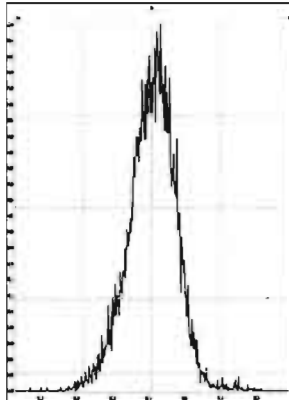
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

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

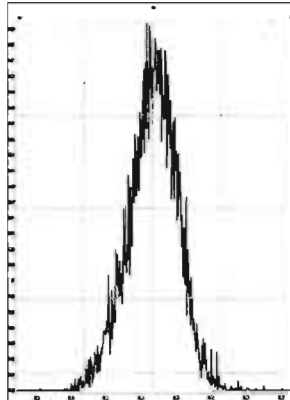
M 366.9792 R 13368



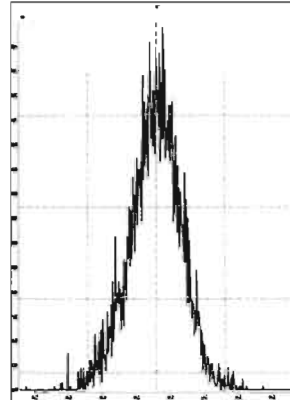
M 380.9760 R 13229



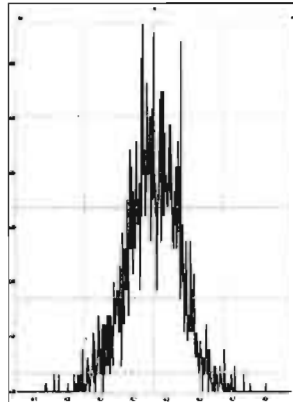
M 392.9760 R 12819



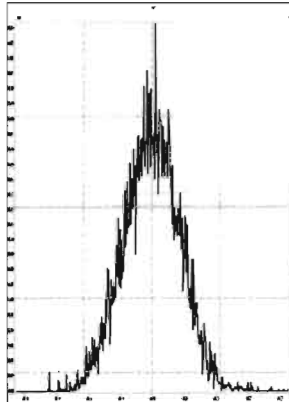
M 404.9760 R 13229



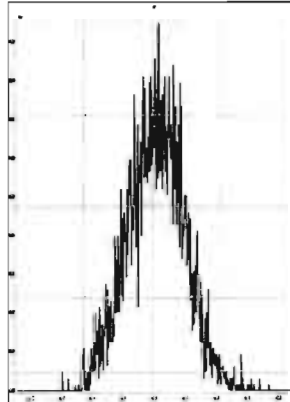
M 416.9760 R 13970



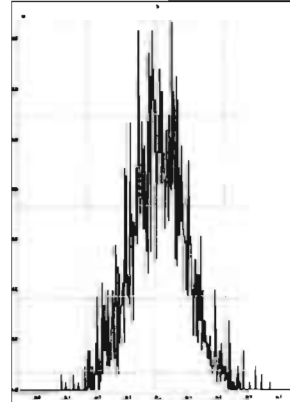
M 430.9728 R 11157



M 442.9728 R 10821



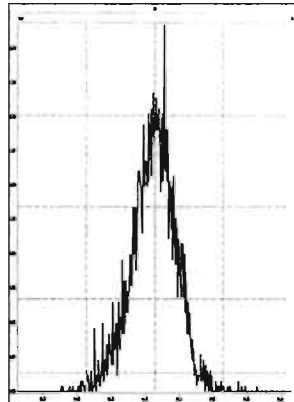
M 454.9728 R 11737



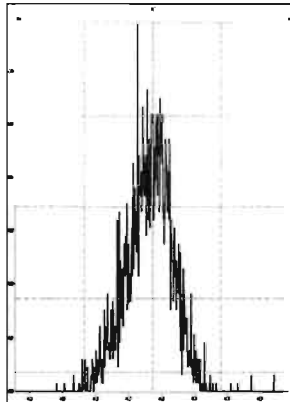
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Printed: Thursday, November 26, 2020 08:03:33 Pacific Standard Time

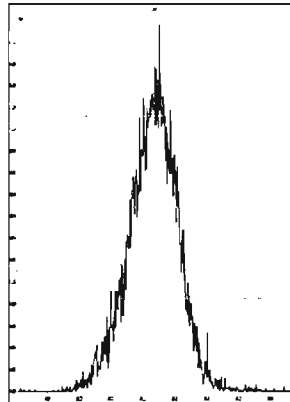
M 404.9760 R 14283



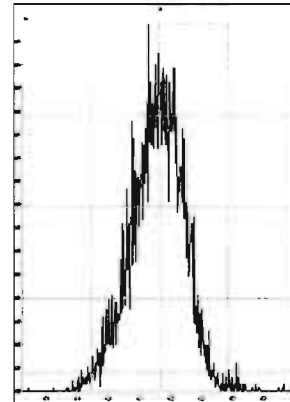
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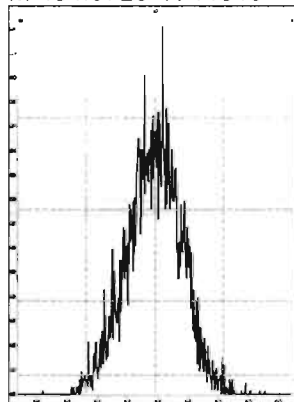
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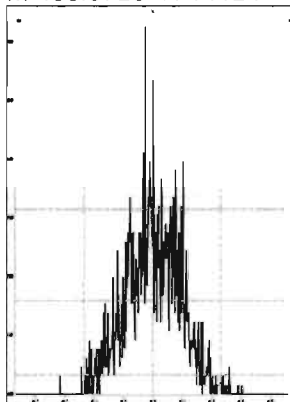
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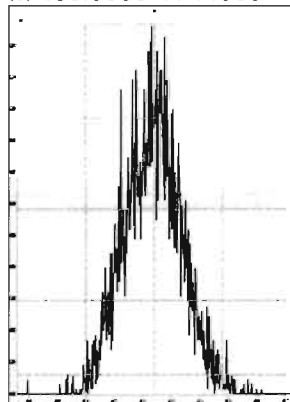
M 454.9728 R 11519



M 466.9728 R 14124



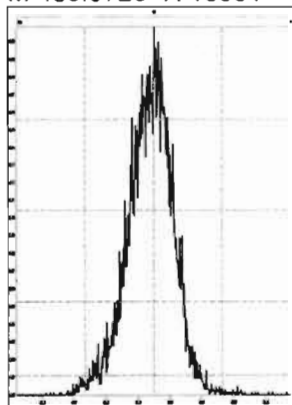
M 480.9696 R 11959



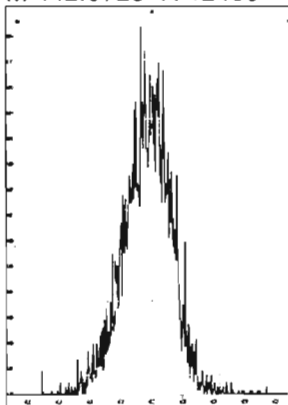
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Printed: Thursday, November 26, 2020 08:03:51 Pacific Standard Time

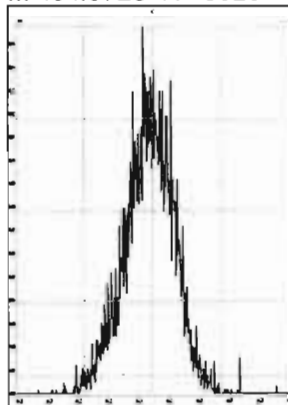
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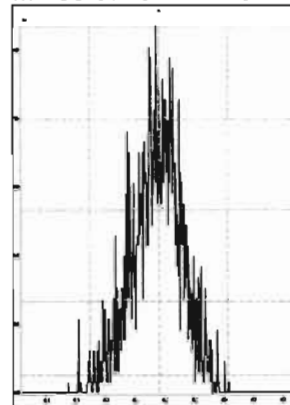
M 442.9728 R 12435



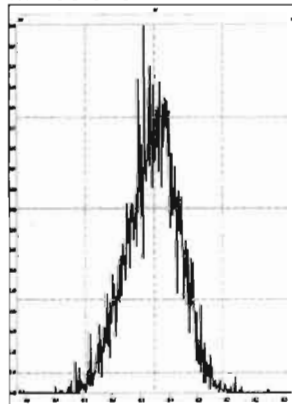
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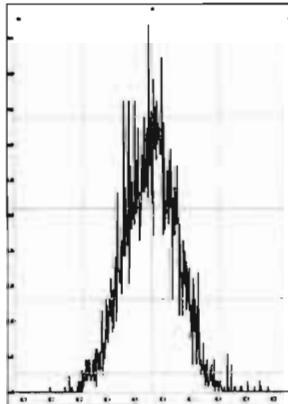
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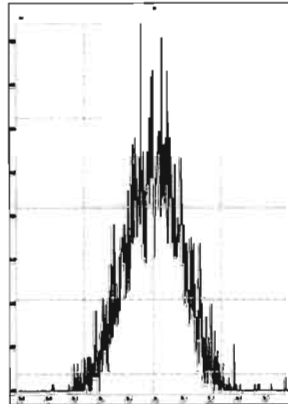
M 480.9696 R 12437



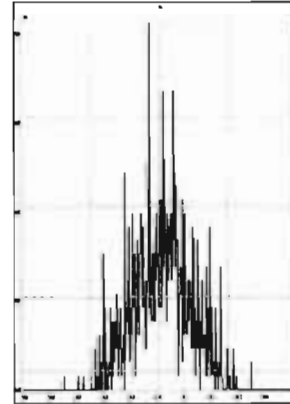
M 492.9696 R 12623



M 504.9696 R 13157



M 516.9697 R 15626



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\ldbDIOXIN_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
 Printed: Tuesday, October 20, 2020 15:22:41 Pacific Daylight Time

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	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

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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

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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

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Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

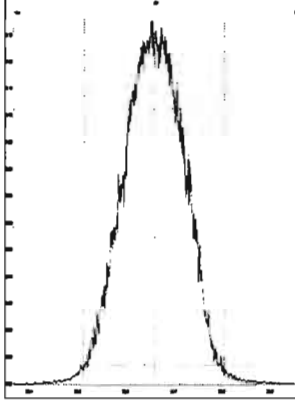
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3	201020R1_3	ST201020R1_3 1613 CS2 20F1104	20-Oct-20	10:48:17
4	201020R1_4	ST201020R1_4 1613 CS4 20F1106	20-Oct-20	11:32:31
5	201020R1_5	ST201020R1_5 1613 CS5 20F1107	20-Oct-20	12:16:56
6	201020R1_6	ST201020R1_6 1613 CS3 20F1105	20-Oct-20	13:01:38
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
9	201020R1_9	TCDF CPSM	20-Oct-20	15:13:50

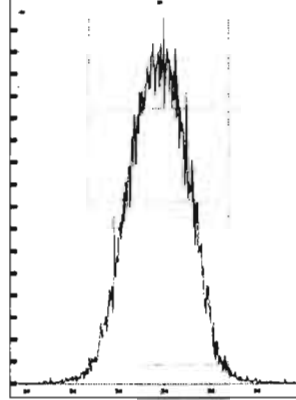
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Printed: Tuesday, October 20, 2020 09:00:19 Pacific Daylight Time

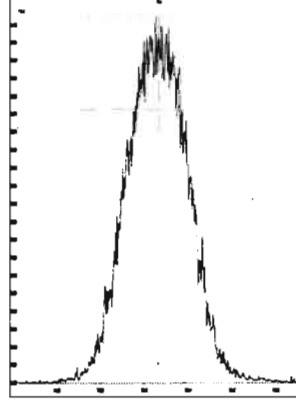
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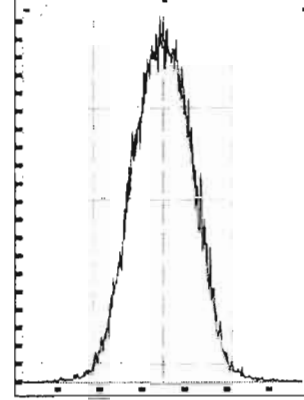
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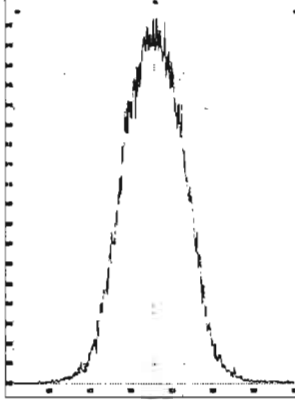
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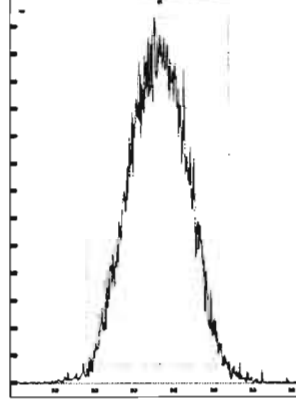
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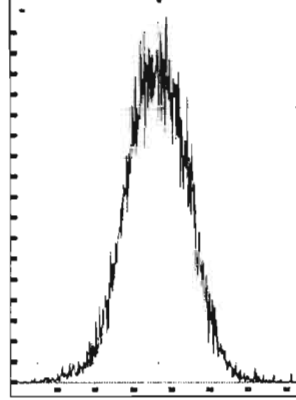
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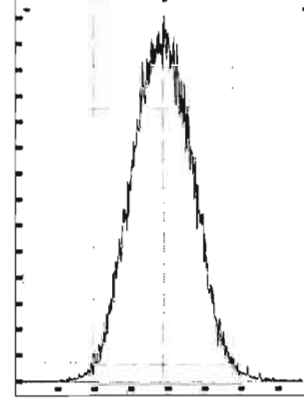
M 354.9792 R 10416



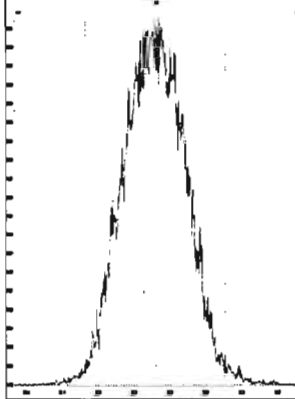
M 366.9792 R 10285



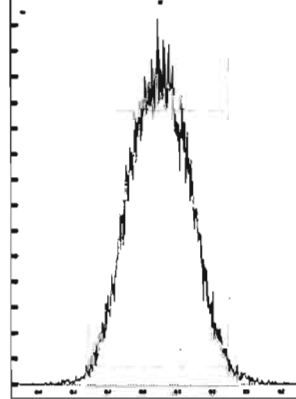
M 380.9760 R 10162



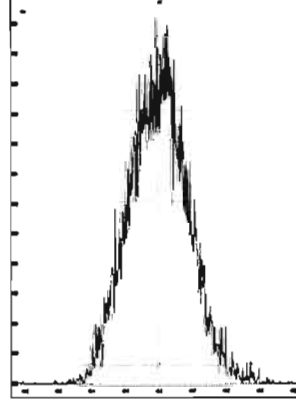
M 392.9760 R 10371



M 404.9760 R 10330



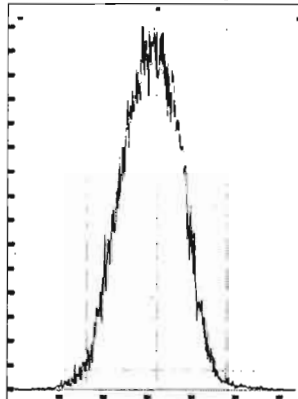
M 416.9760 R 10914



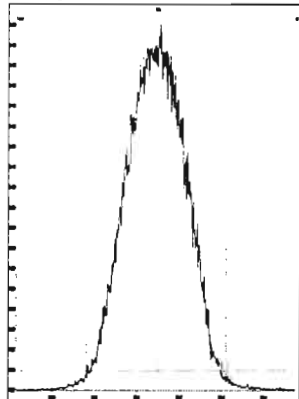
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, October 20, 2020 09:01:23 Pacific Daylight Time

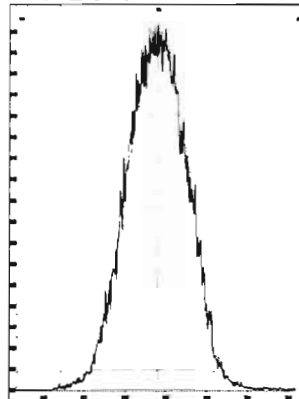
M 318.9792 R 10548



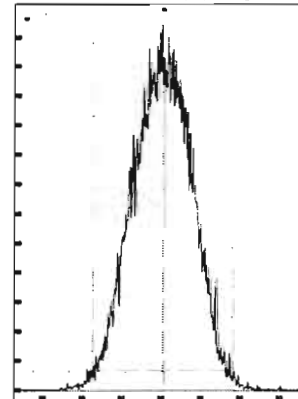
M 330.9792 R 10680



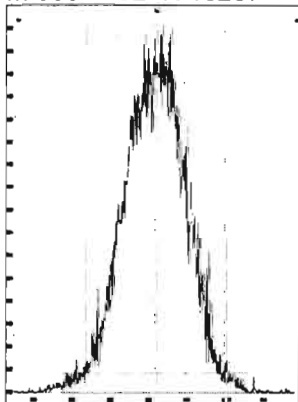
M 342.9792 R 10547



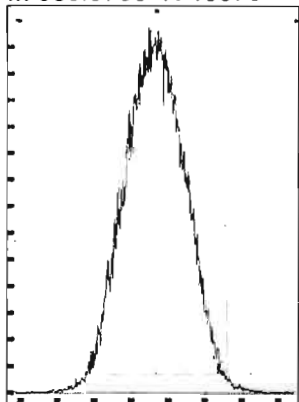
M 354.9792 R 10731



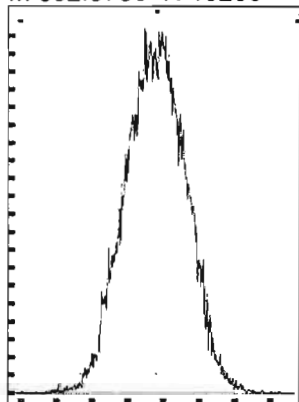
M 366.9792 R 10287



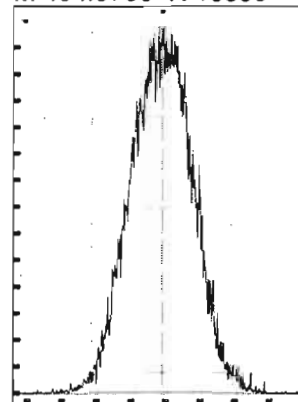
M 380.9760 R 10370



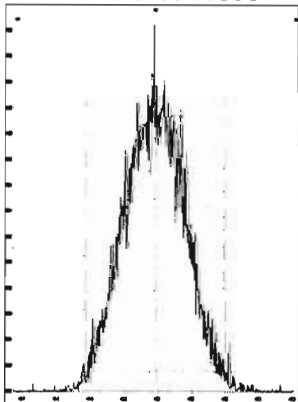
M 392.9760 R 10203



M 404.9760 R 10639



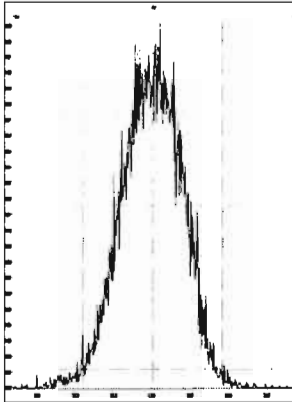
M 416.9760 R 11060



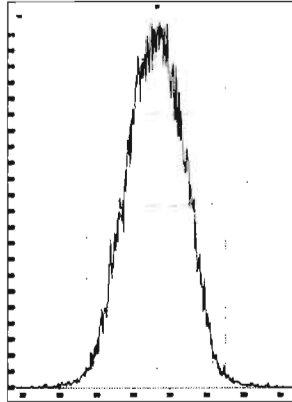
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, October 20, 2020 09:02:28 Pacific Daylight Time

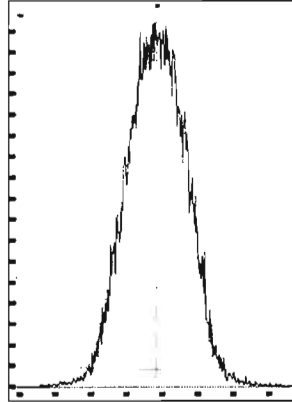
M 366.9792 R 10592



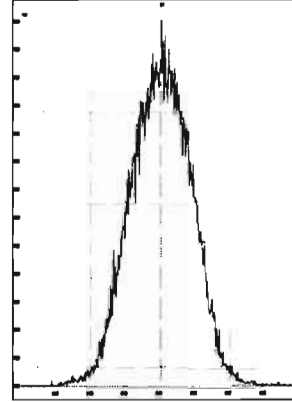
M 380.9760 R 10962



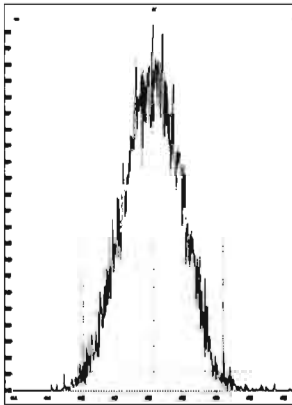
M 392.9760 R 11012



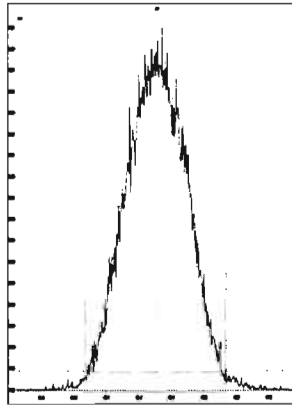
M 404.9760 R 10549



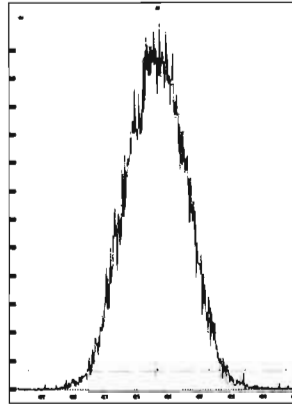
M 416.9760 R 11213



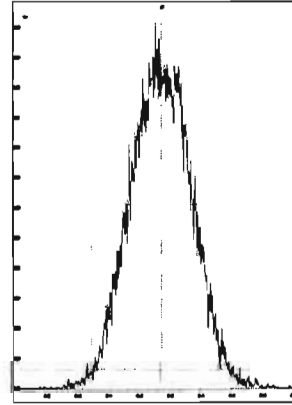
M 430.9728 R 10549



M 442.9728 R 10640



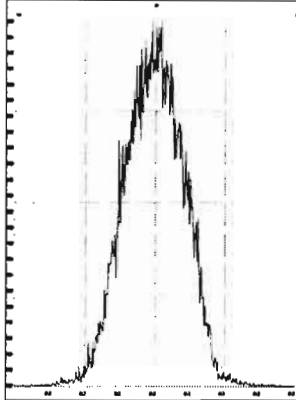
M 454.9728 R 10246



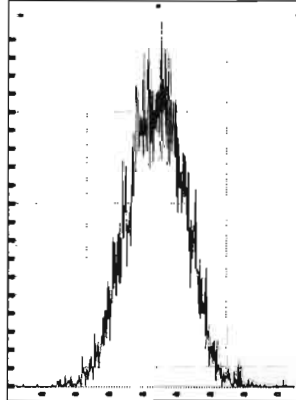
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Printed: Tuesday, October 20, 2020 09:03:26 Pacific Daylight Time

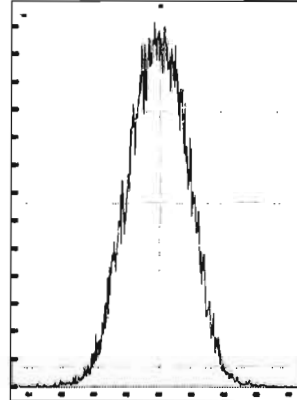
M 404.9760 R 10871



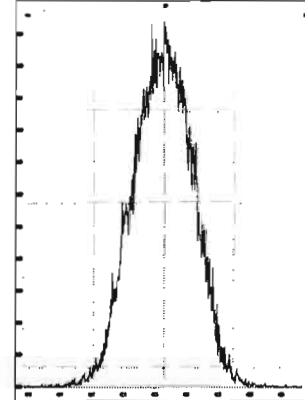
M 416.9760 R 11520



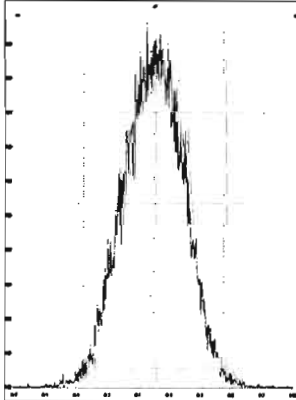
M 430.9728 R 10727



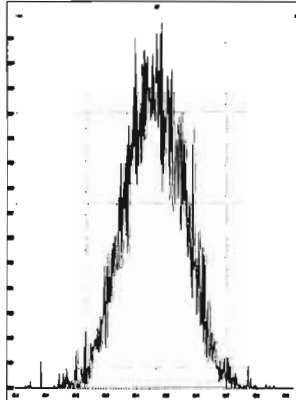
M 442.9728 R 10869



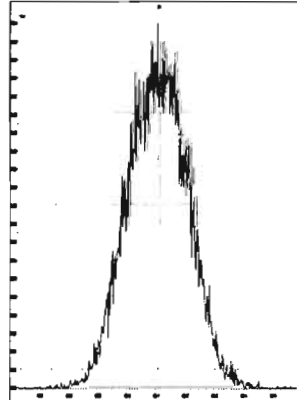
M 454.9728 R 10591



M 466.9728 R 10869



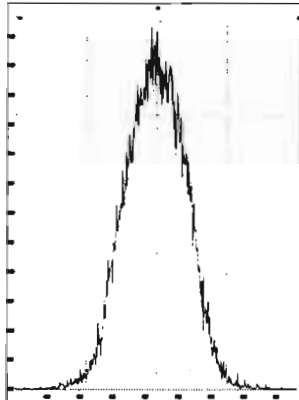
M 480.9696 R 10371



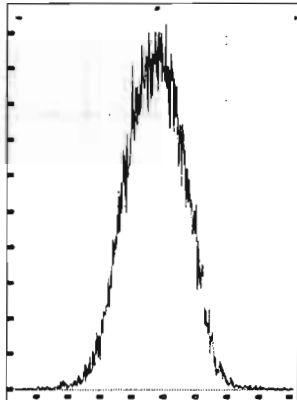
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Printed: Tuesday, October 20, 2020 09:04:30 Pacific Daylight Time

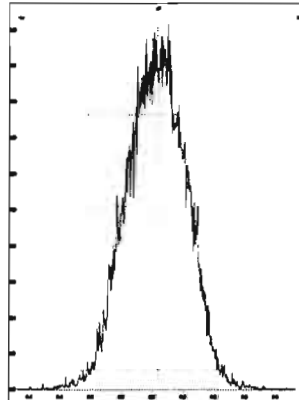
M 430.9728 R 10547



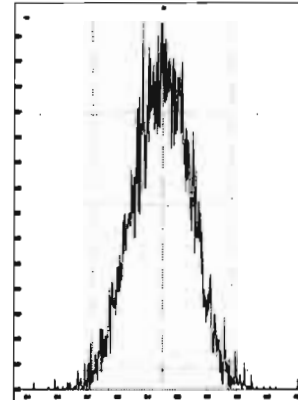
M 442.9728 R 11211



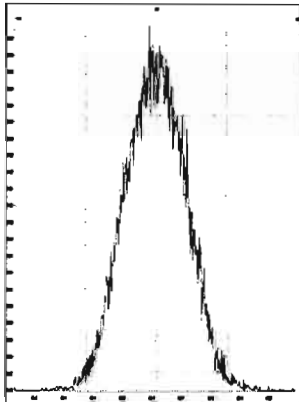
M 454.9728 R 10868



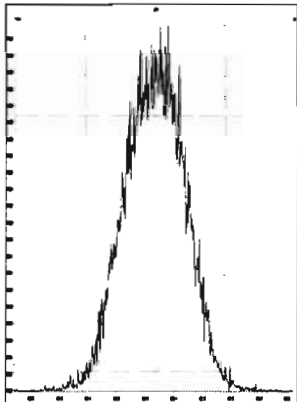
M 466.9728 R 11849



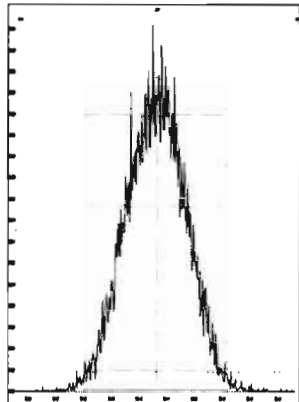
M 480.9696 R 10683



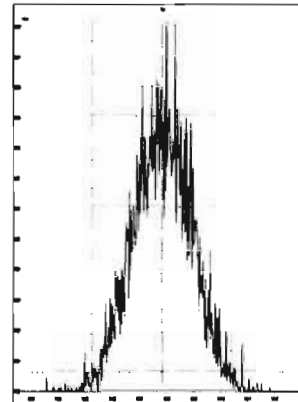
M 492.9696 R 10505



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

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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

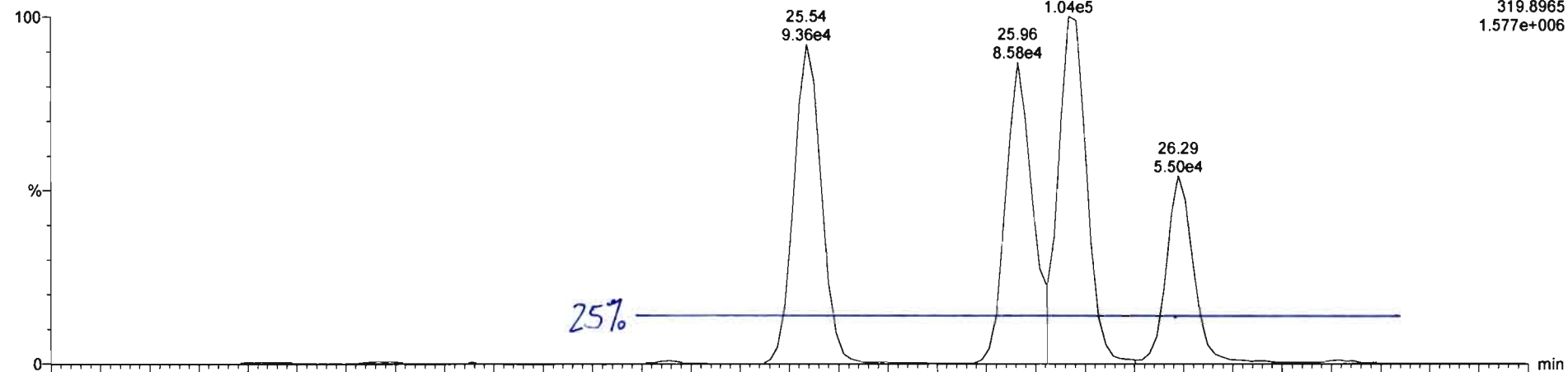
GRS 10/20/20
HN 10/22/2020

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

Name: 201020R1_6, Date: 20-Oct-2020, Time: 13:01:38, ID: ST201020R1_6 1613 CS3 20F1105, Description: 1613 CS3 20F1105

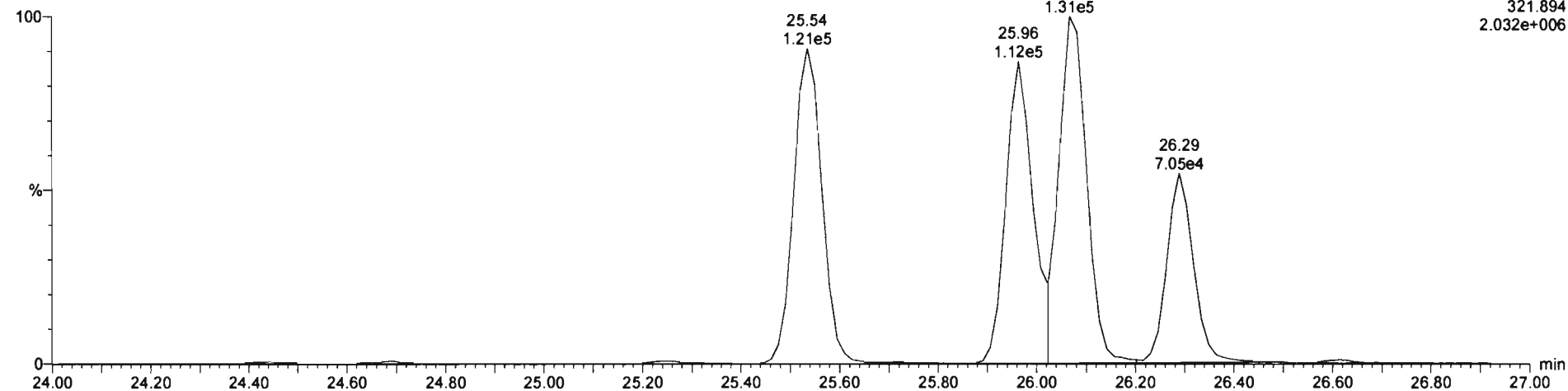
1,3,6,8-TCDD (First)

201020R1_6



F1:Voltage SIR,EI+
319.8965
1.577e+006

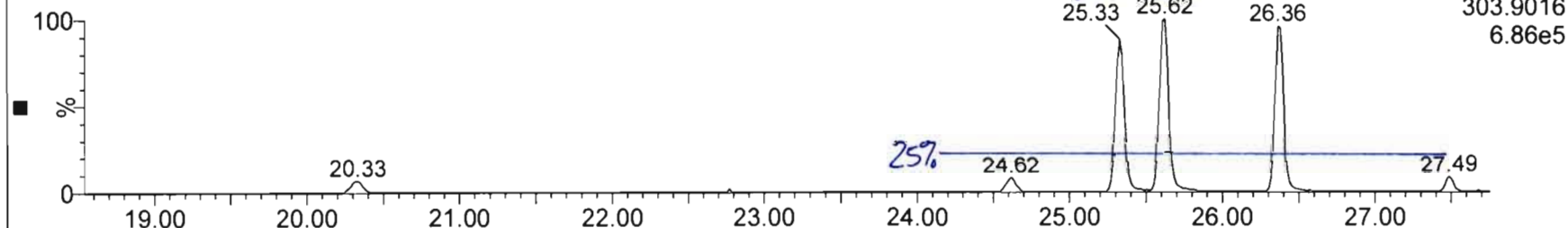
201020R1_6



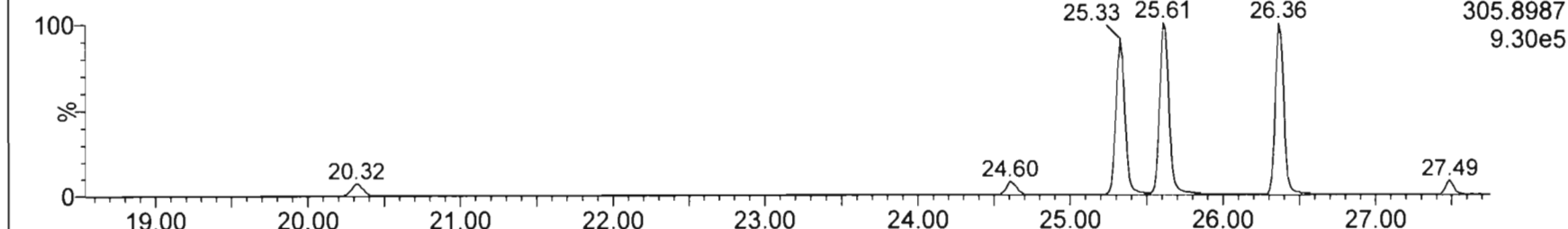
F1:Voltage SIR,EI+
321.894
2.032e+006

TCDF CPSM QC

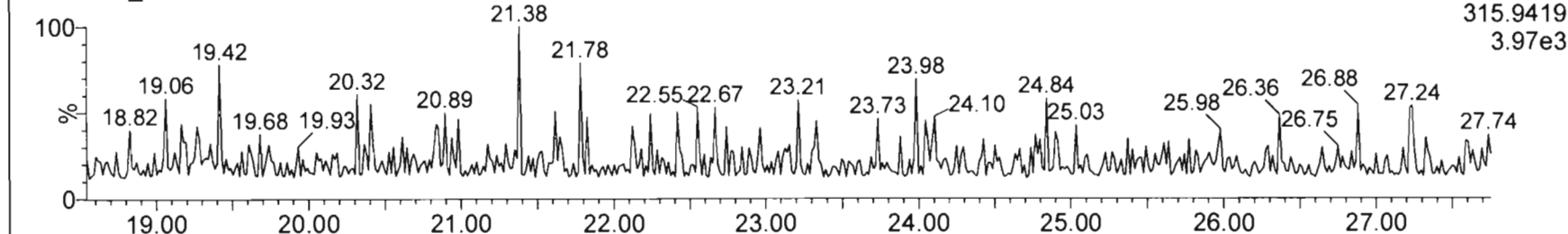
201020R1_9



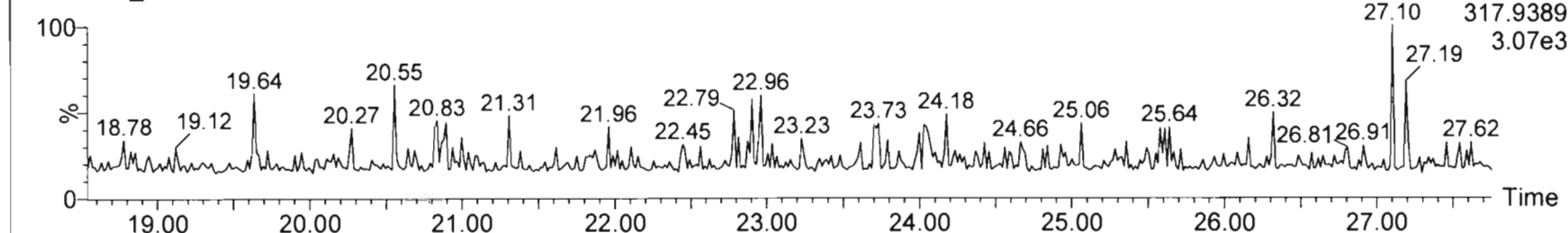
201020R1_9



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

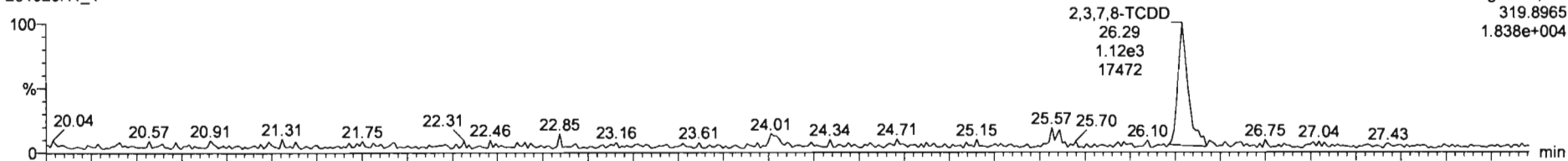
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Calibration: 20 Oct 2020 15:17:40

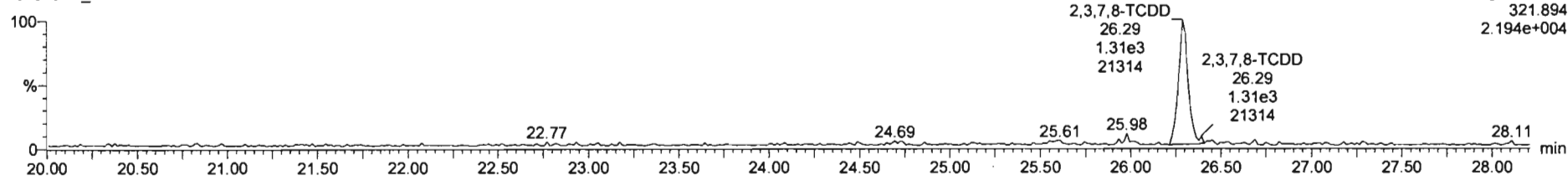
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2,3,7,8-TCDD

201020R1_1

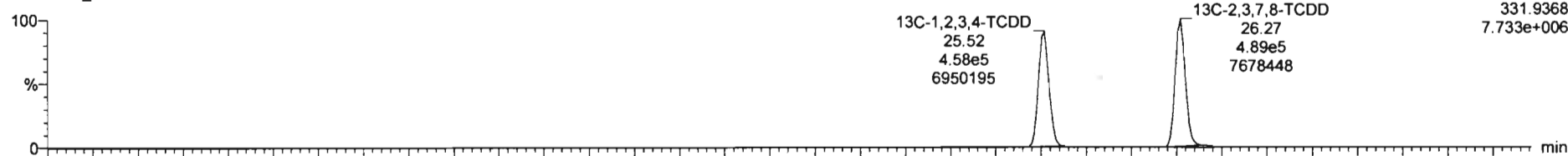


201020R1_1

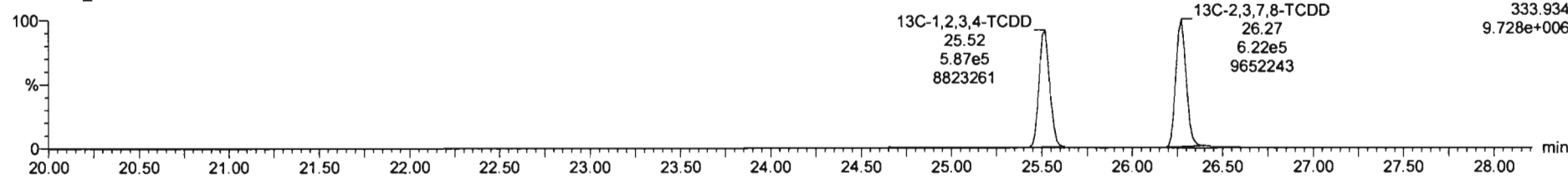


13C-2,3,7,8-TCDD

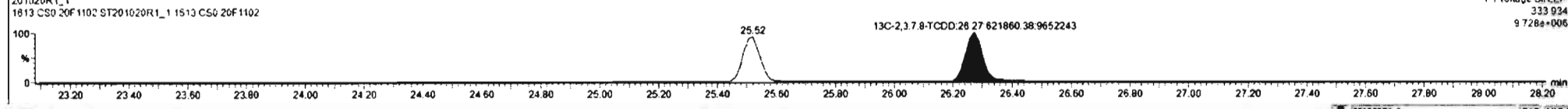
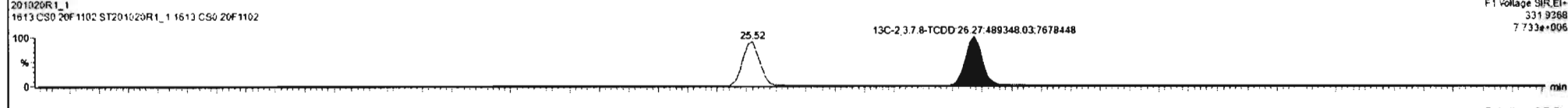
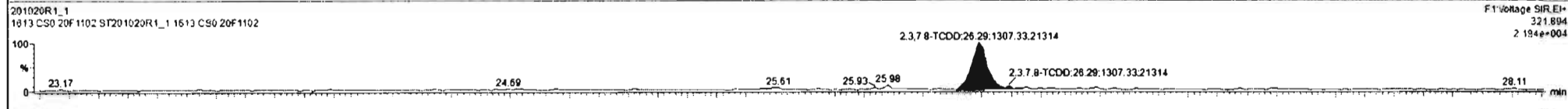
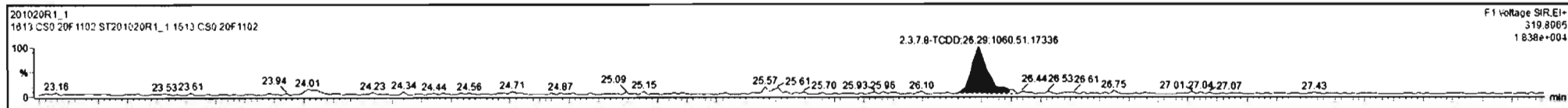
201020R1_1



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	1.3928e4	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	1.161	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	6.8684e5	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	9.8181e3	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	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	1.276	NO	7.3628e5	9.3577e5	100.000	-5.5	6.74	0.833	0.0561



Dataset: Untitled

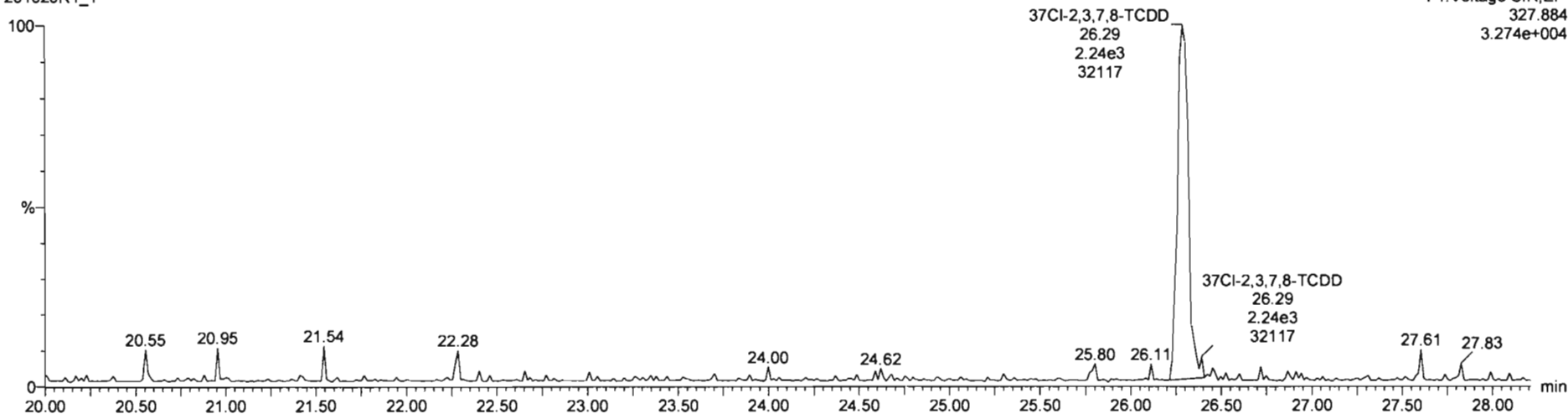
Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time

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

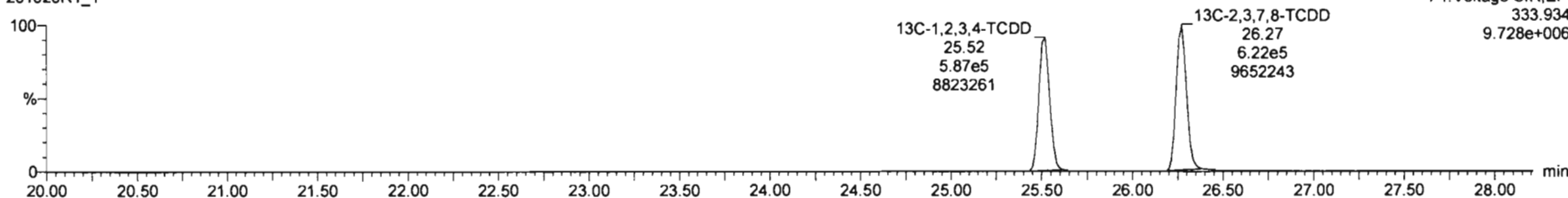


13C-1,2,3,4-TCDD

201020R1_1



201020R1_1



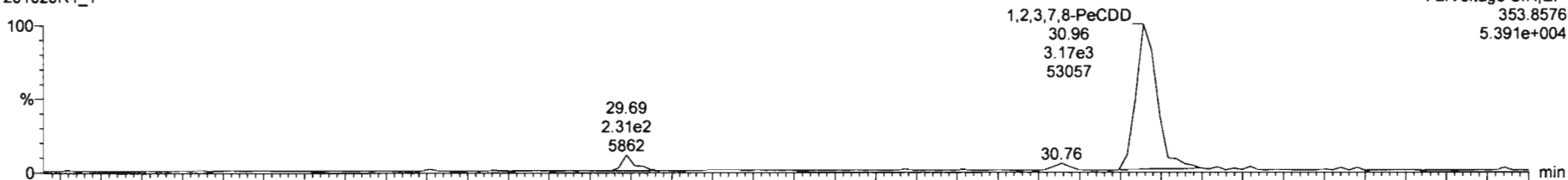
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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

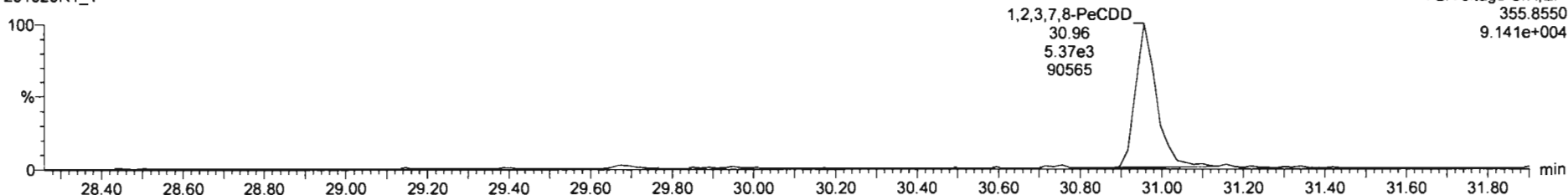
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1,2,3,7,8-PeCDD

201020R1_1

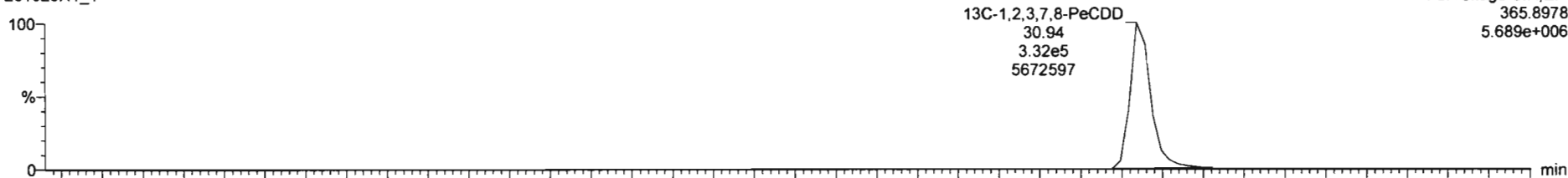


201020R1_1

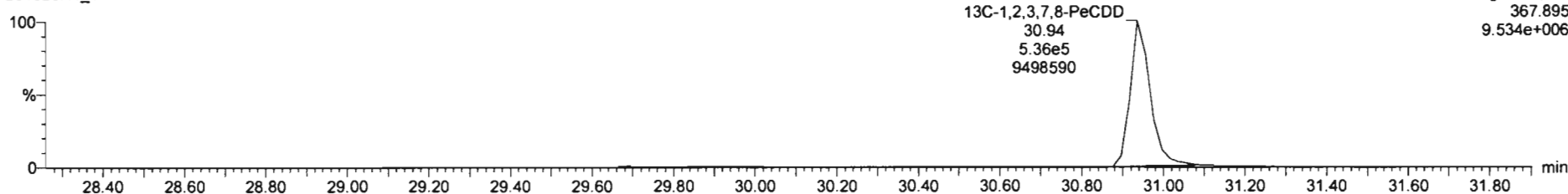


13C-1,2,3,7,8-PeCDD

201020R1_1



201020R1_1



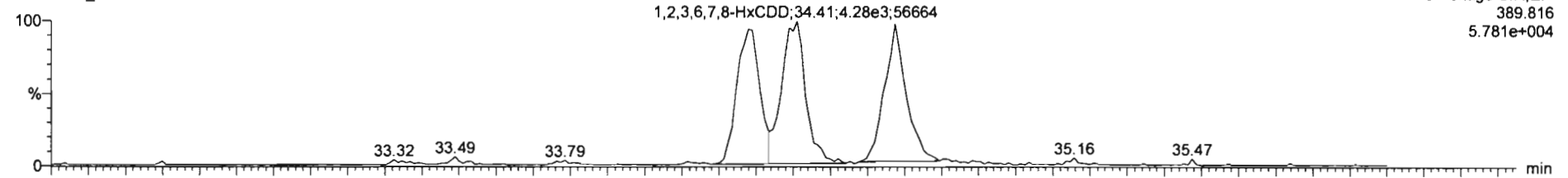
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

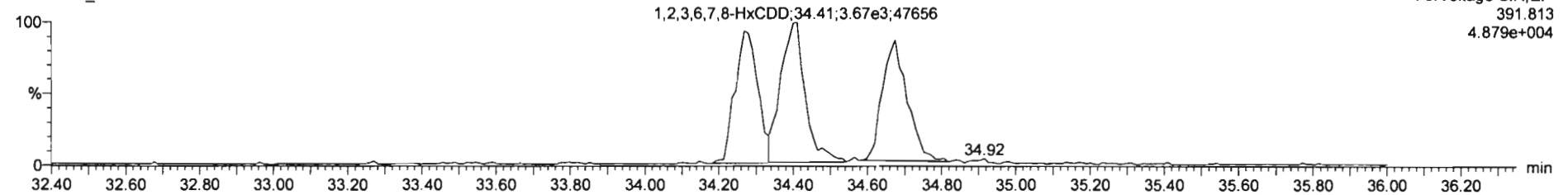
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1,2,3,4,7,8-HxCDD

201020R1_1

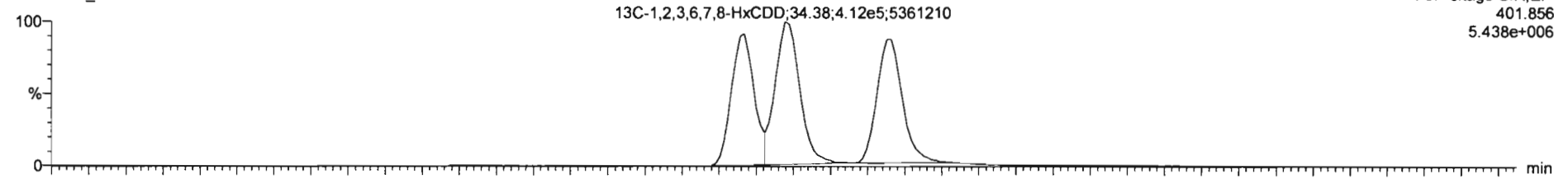


201020R1_1

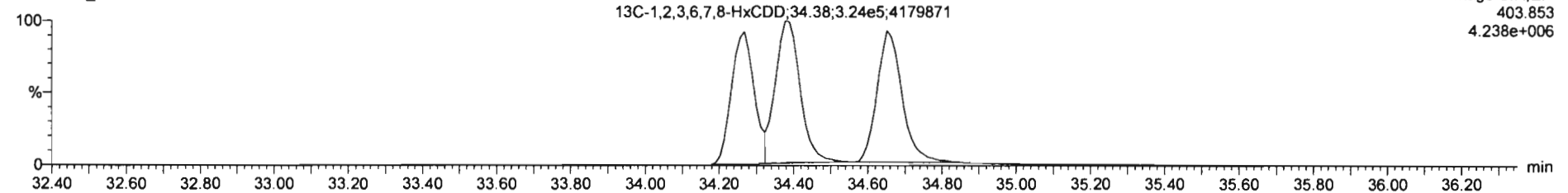


13C-1,2,3,4,7,8-HxCDD

201020R1_1



201020R1_1



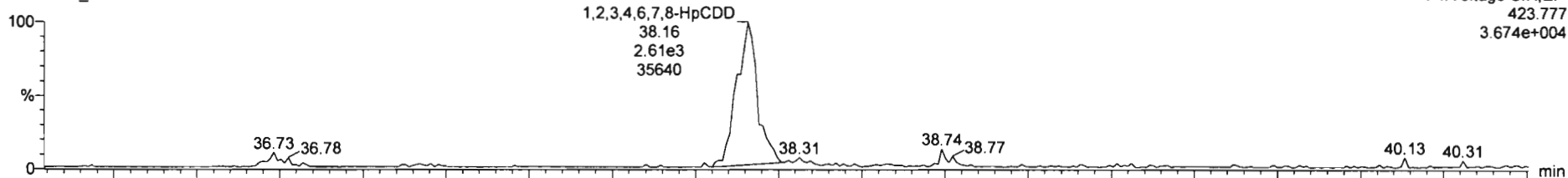
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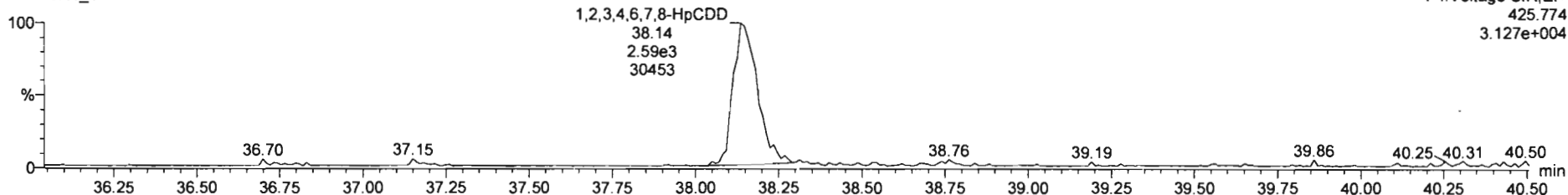
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1,2,3,4,6,7,8-HpCDD

201020R1_1

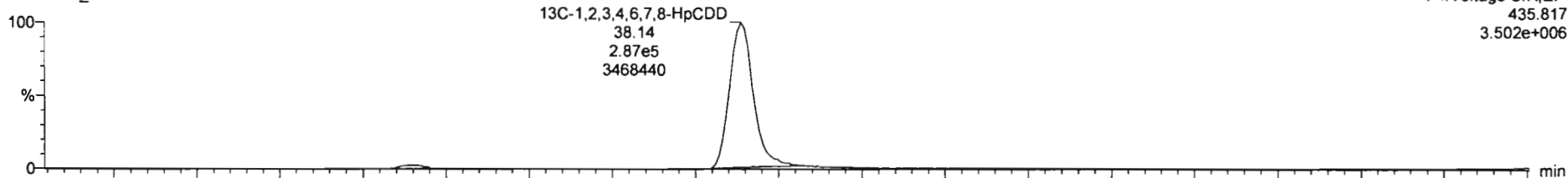


201020R1_1

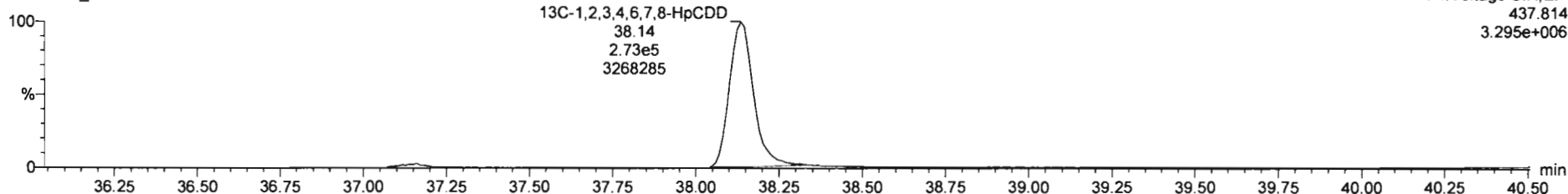


13C-1,2,3,4,6,7,8-HpCDD

201020R1_1



201020R1_1



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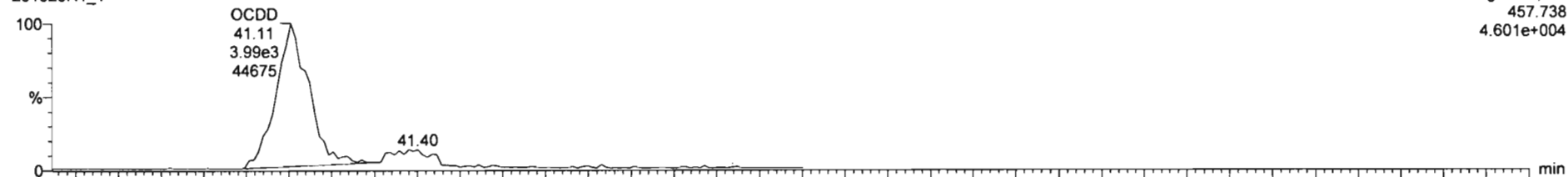
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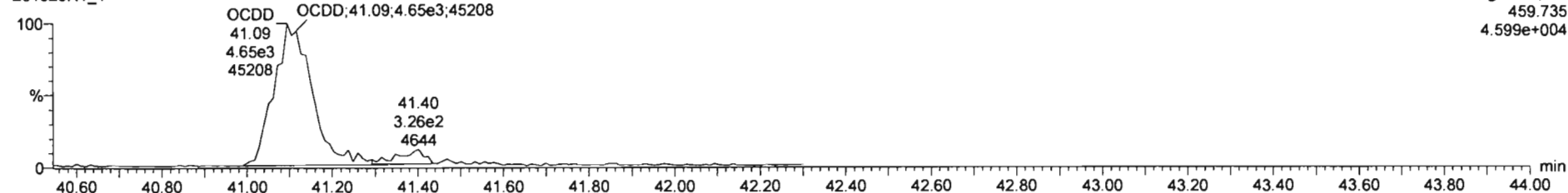
OCDD

201020R1_1



F5:Voltage SIR,EI+
457.738
4.601e+004

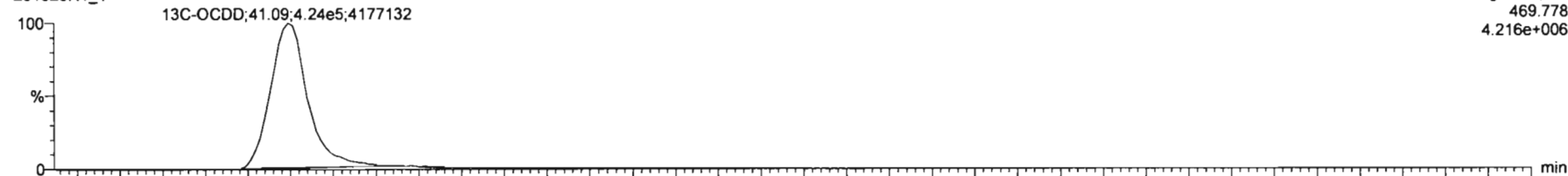
201020R1_1



F5:Voltage SIR,EI+
459.735
4.599e+004

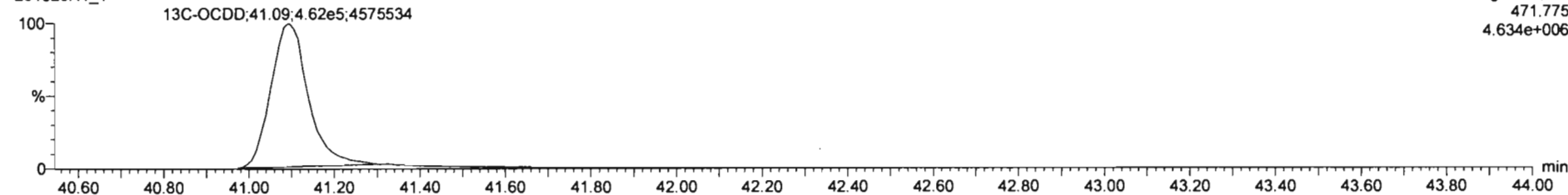
13C-OCDD

201020R1_1



F5:Voltage SIR,EI+
469.778
4.216e+006

201020R1_1



F5:Voltage SIR,EI+
471.775
4.634e+006

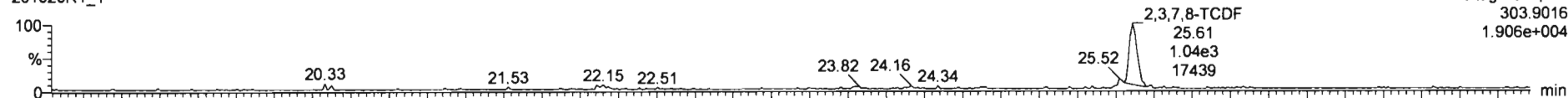
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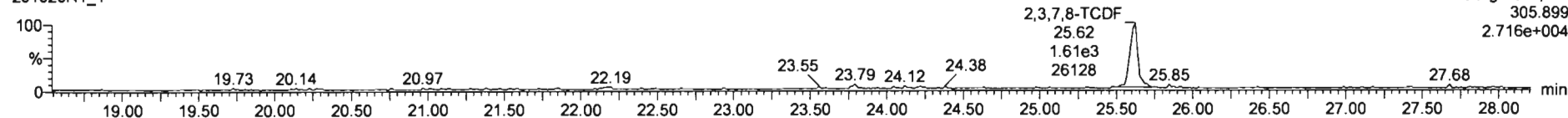
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2,3,7,8-TCDF

201020R1_1

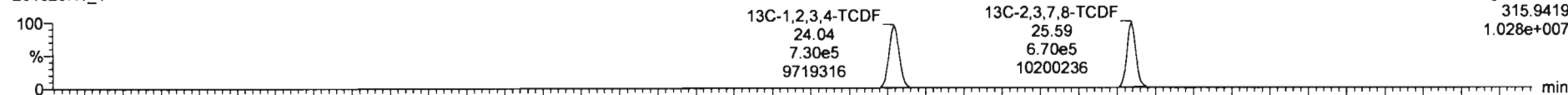


201020R1_1

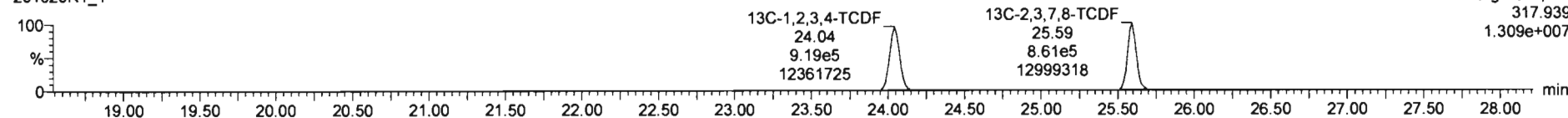


13C-2,3,7,8-TCDF

201020R1_1

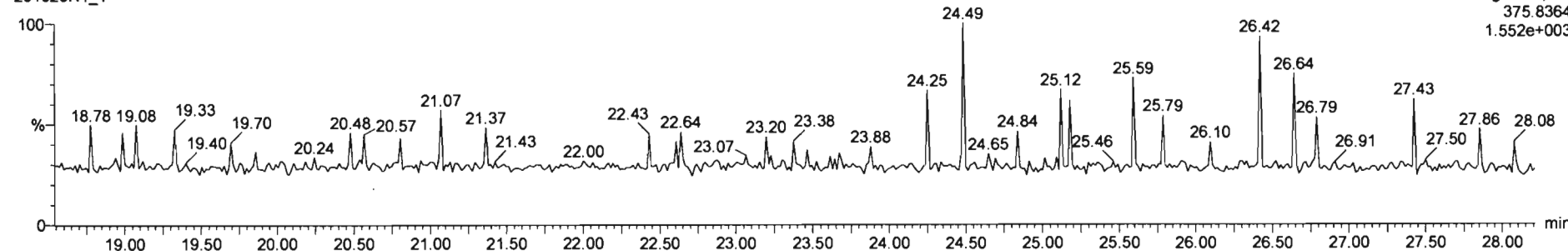


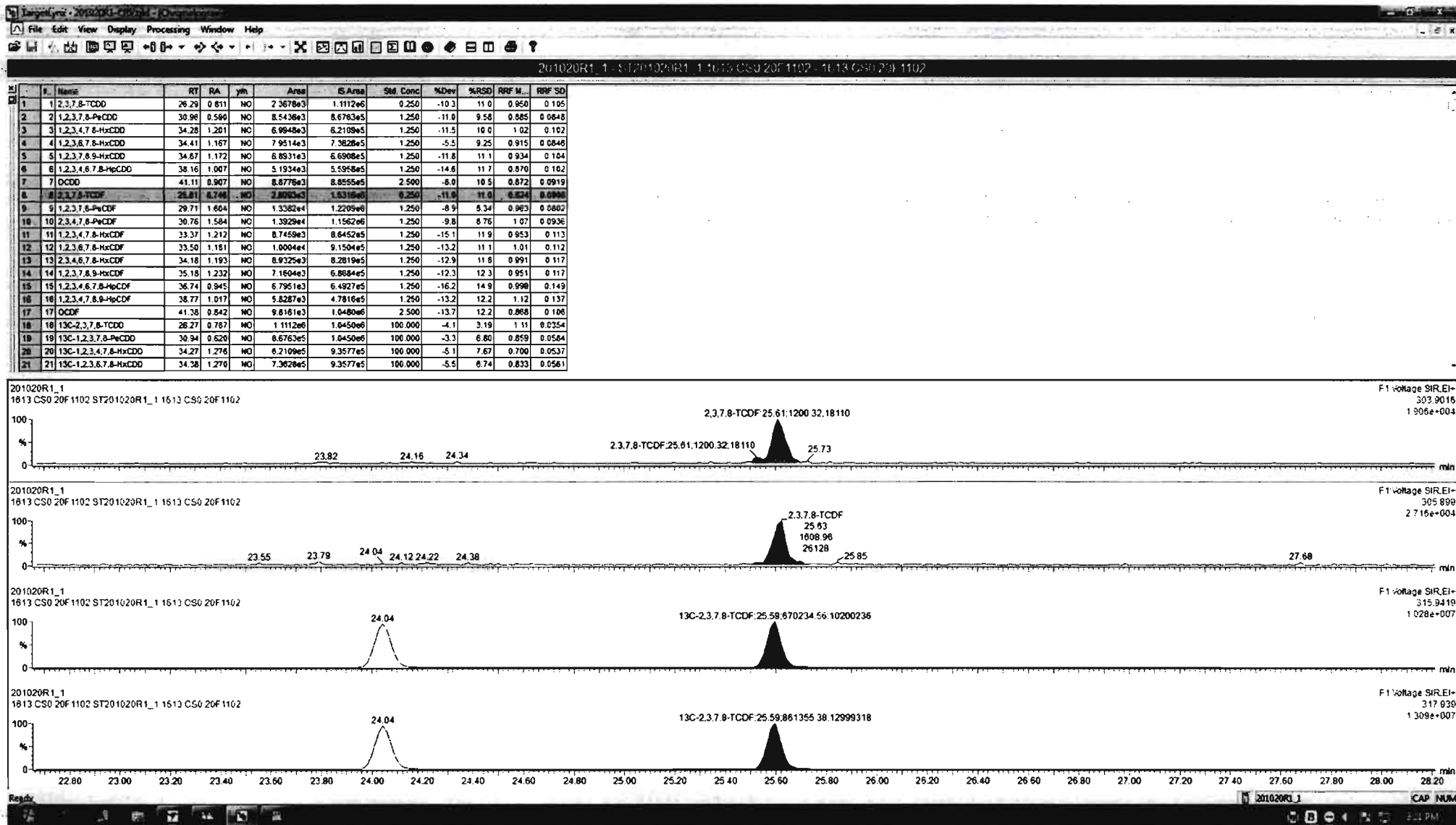
201020R1_1



DPE1

201020R1_1





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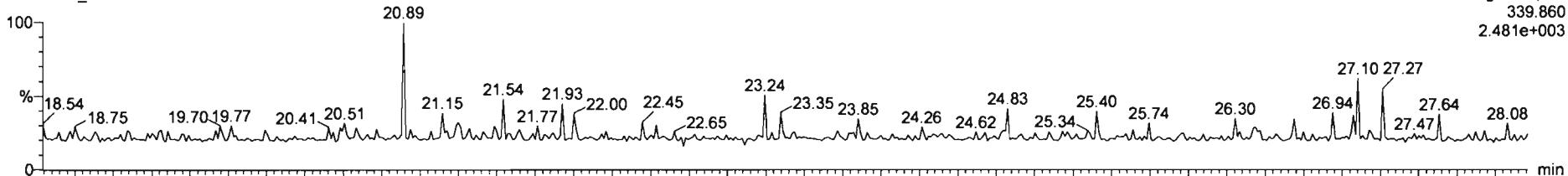
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Name: 201020R1_1, Date: 20-Oct-2020, Time: 09:17:10, ID: ST201020R1_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

1st Func. Penta-Furans

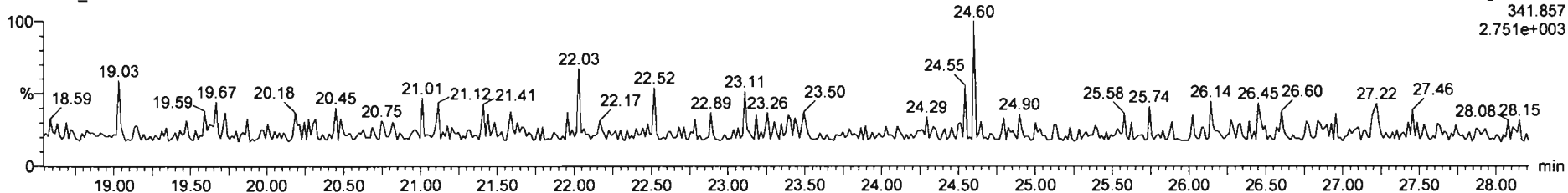
201020R1_1

F1:Voltage SIR,EI+
339.860
2.481e+003



201020R1_1

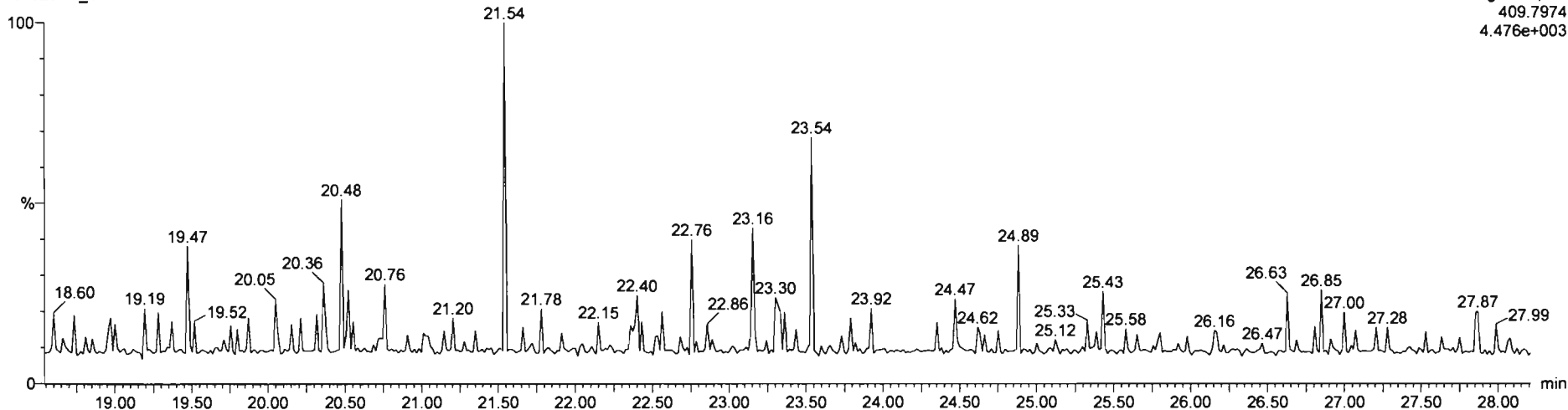
F1:Voltage SIR,EI+
341.857
2.751e+003



DPE6

201020R1_1

F1:Voltage SIR,EI+
409.7974
4.476e+003



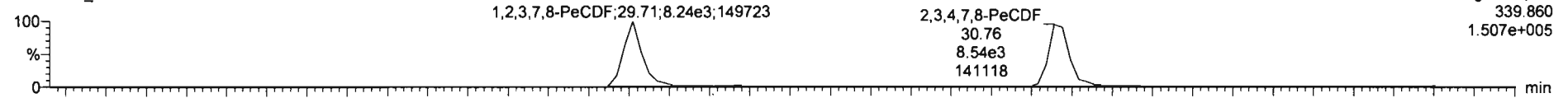
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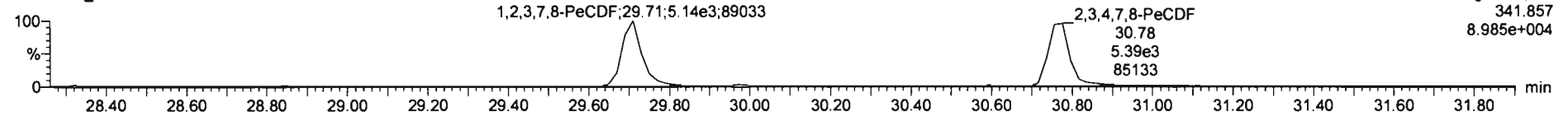
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1,2,3,7,8-PeCDF

201020R1_1

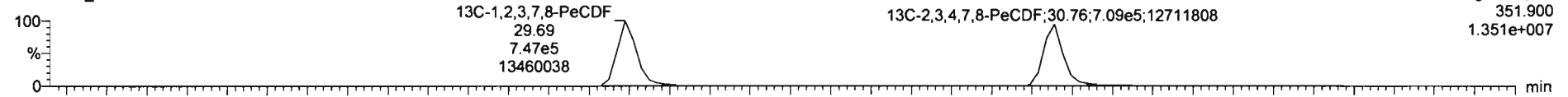


201020R1_1

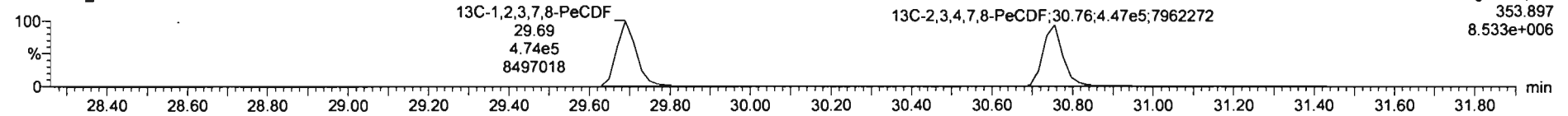


13C-1,2,3,7,8-PeCDF

201020R1_1

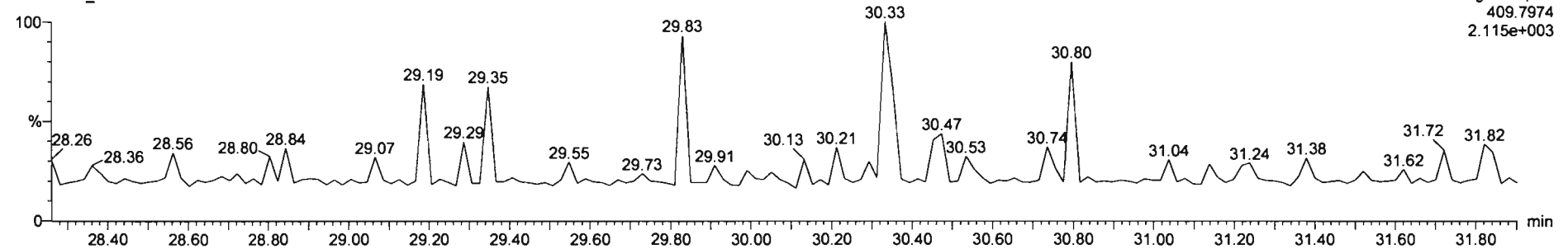


201020R1_1



DPE2

201020R1_1



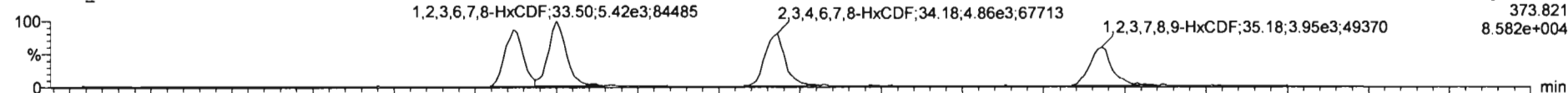
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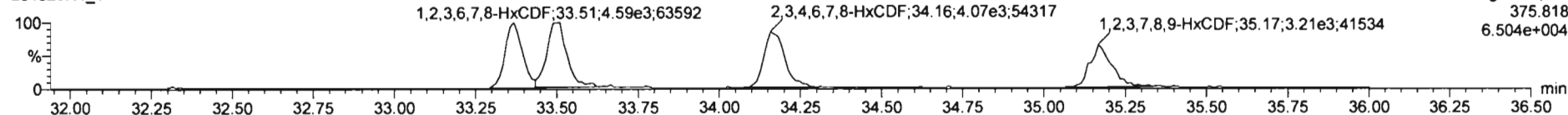
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1,2,3,4,7,8-HxCDF

201020R1_1

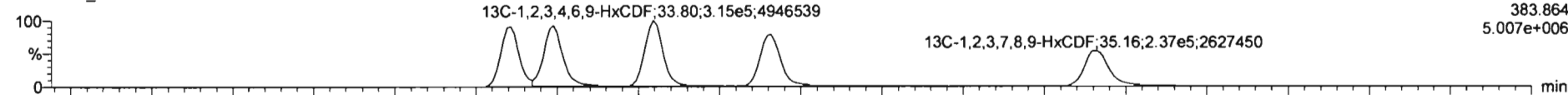


201020R1_1

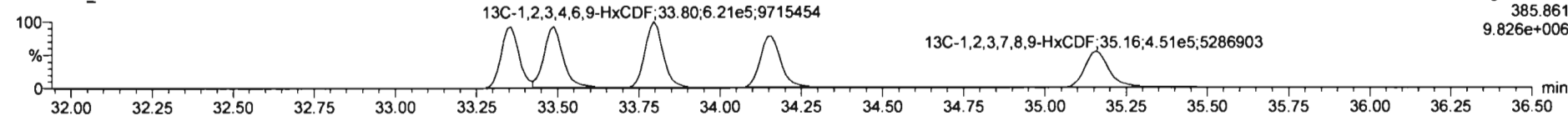


13C-1,2,3,4,7,8-HxCDF

201020R1_1

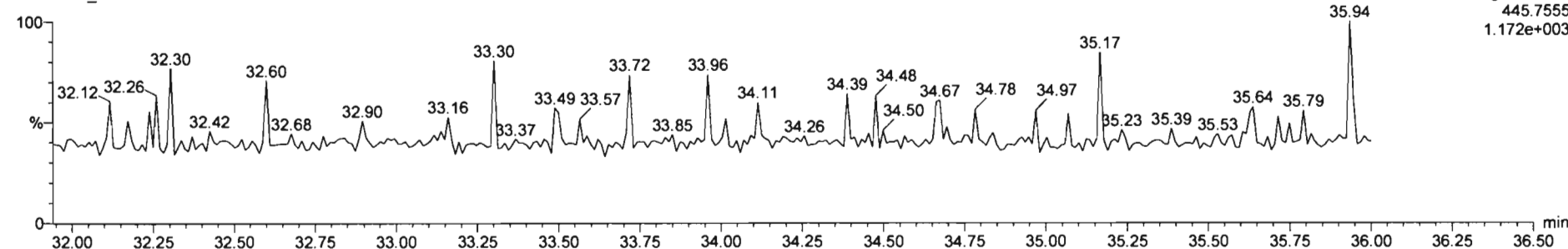


201020R1_1

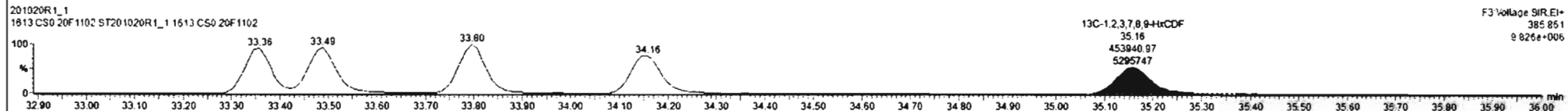
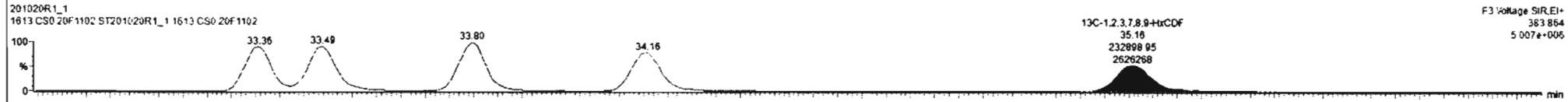
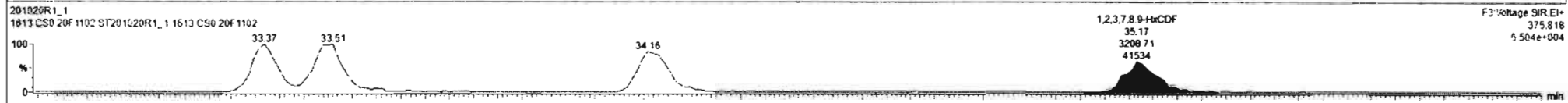


DPE3

201020R1_1



#	Name	RT	RA	yth	Area	IS Area	Std. Conc.	%Dev.	%RSD	RRF M.	RRF 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	5.6958e5	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	1.276	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	7.3628e5	9.3577e5	100.000	-5.5	6.74	0.833	0.0581

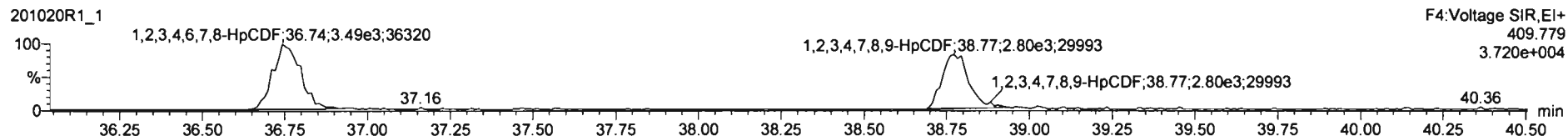
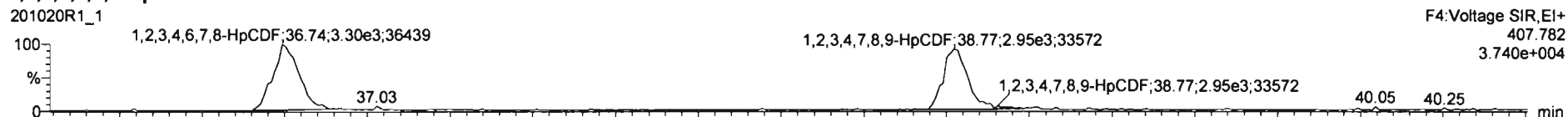


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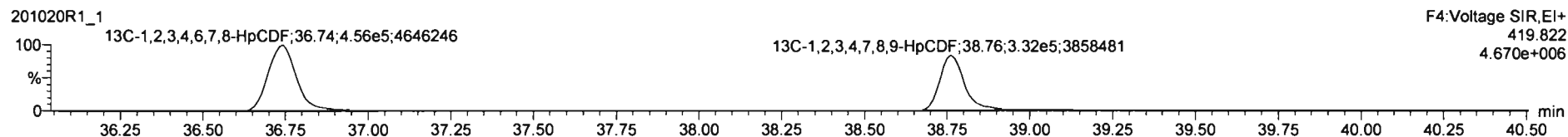
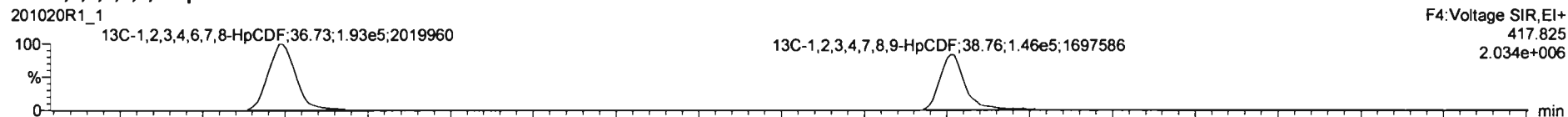
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_1, Date: 20-Oct-2020, Time: 09:17:10, ID: ST201020R1_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

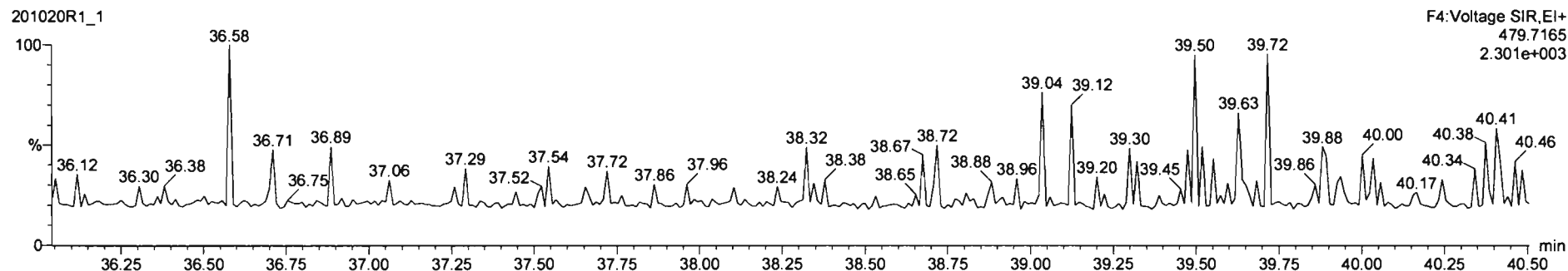
1,2,3,4,6,7,8-HpCDF



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

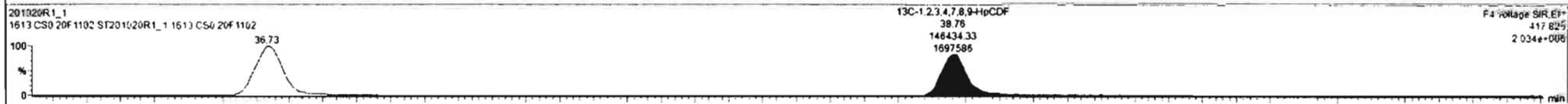
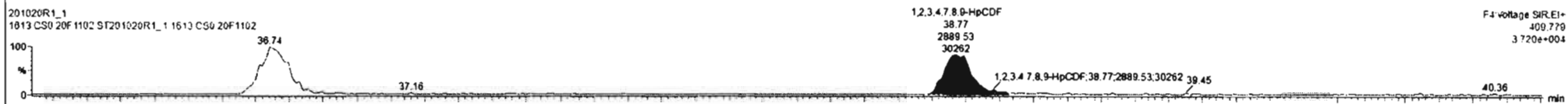
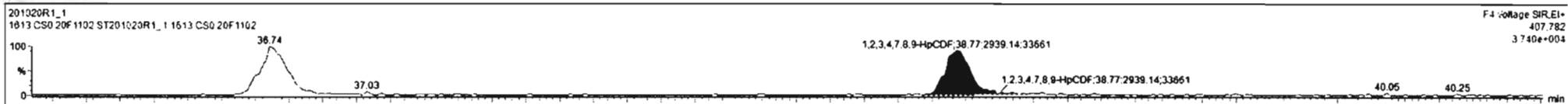


DPE4



201020R1_1 - ST201020R1_1 1613 CS0 20F 1102 - 1613 CS0 20F 1102

#	Name	RT	RA	Yth	Area	IS Area	Std. Conc	NDev	%RSD	RRF M...	RRF 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	8.6763e5	1.250	-11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.201	NO	8.9948e3	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	0.0848
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	38.16	1.007	NO	5.1934e3	5.5958e5	1.250	-14.8	11.7	0.970	0.102
7	OCDD	41.11	0.907	NO	8.6778e3	8.8555e5	2.500	-8.0	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.746	NO	2.6093e3	1.5316e6	0.250	-11.0	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.71	1.604	NO	1.3382e4	1.2205e6	1.250	-8.9	8.34	0.963	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	1.0004e4	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	7.1604e3	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	1.817	NO	5.8077e3	4.7818e5	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	0.866	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	8.6763e5	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	0.706	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	0.0561



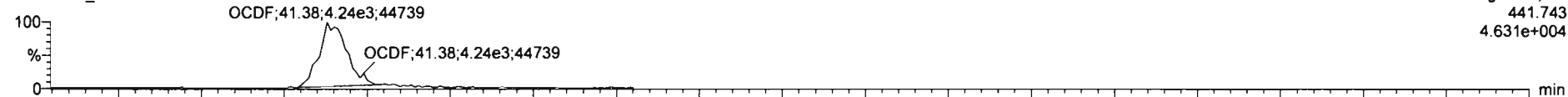
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

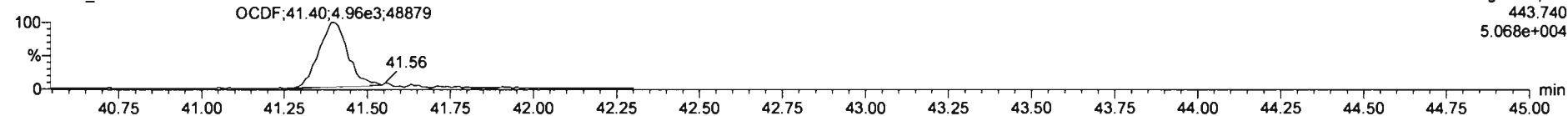
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OCDF

201020R1_1

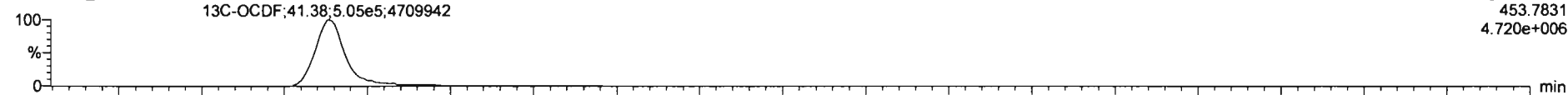


201020R1_1

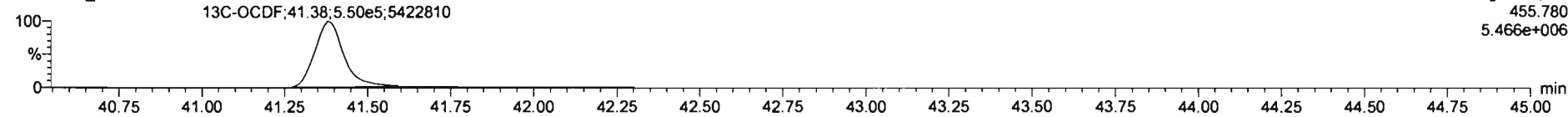


13C-OCDF

201020R1_1

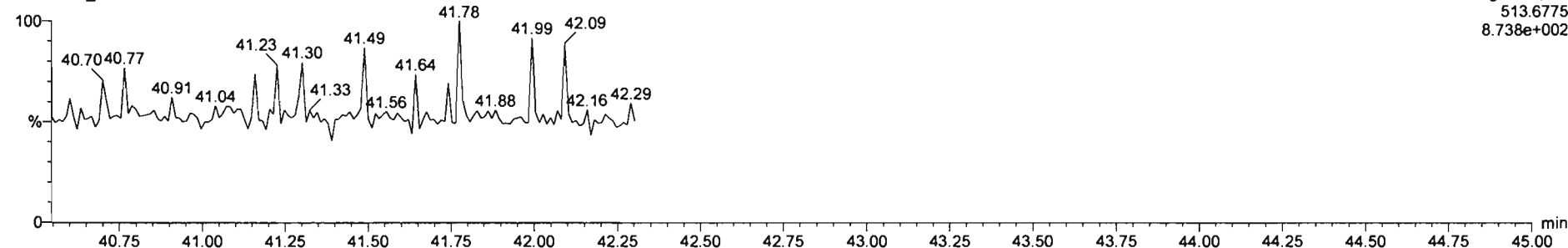


201020R1_1

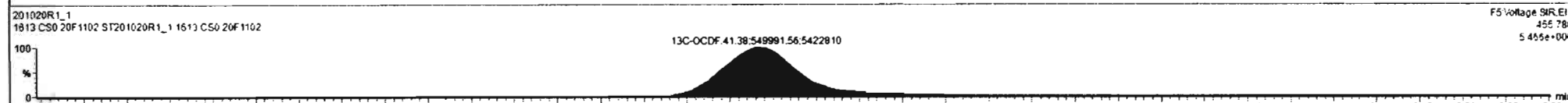
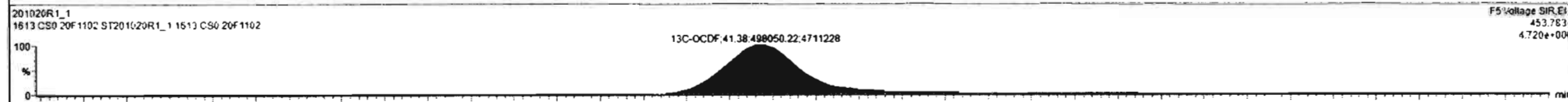
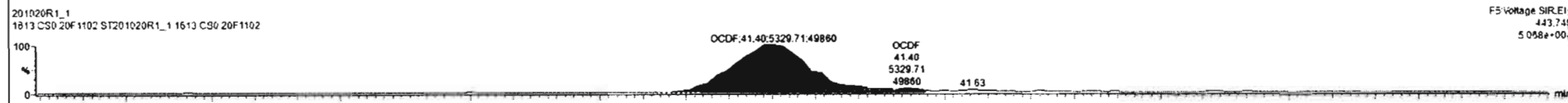
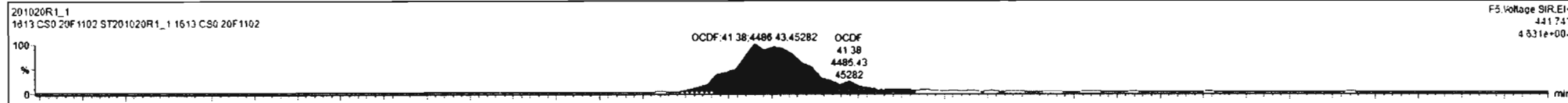


DPE5

201020R1_1



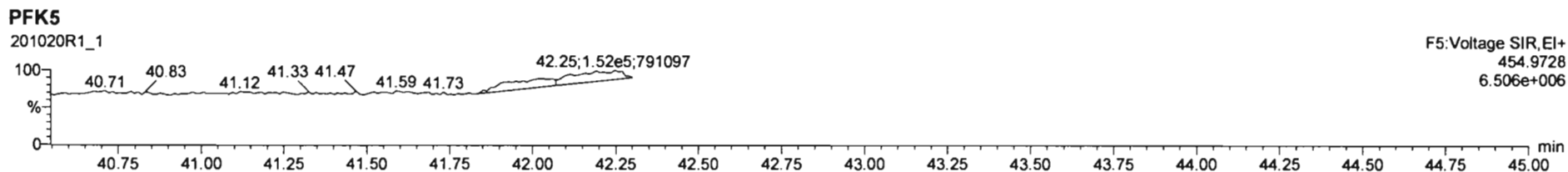
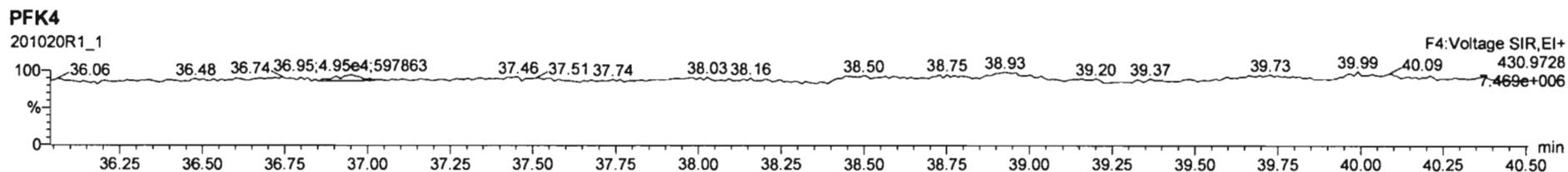
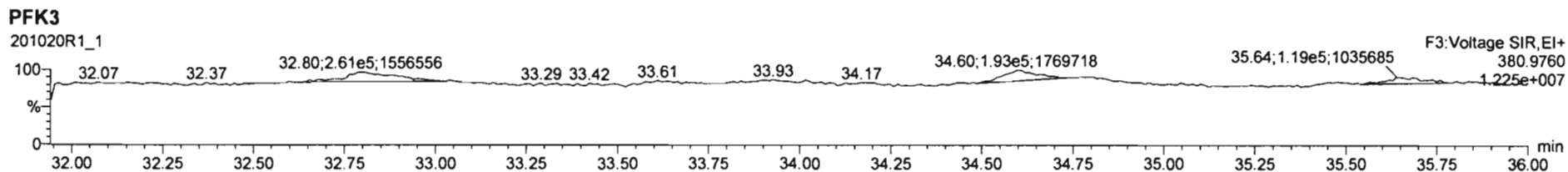
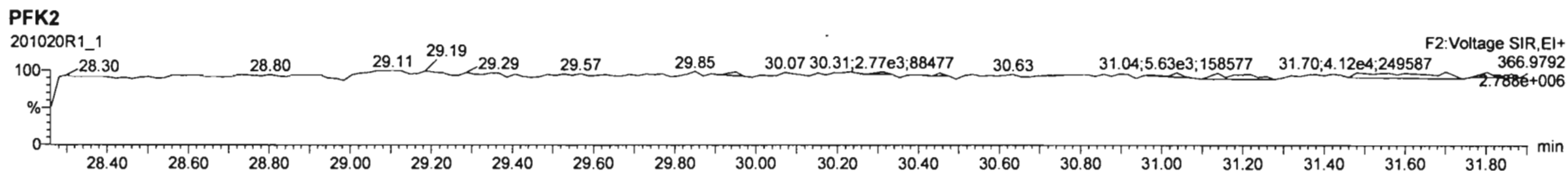
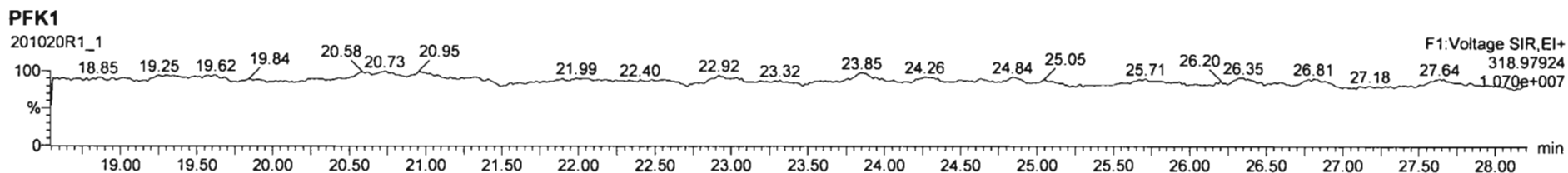
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1	2,3,7,8-TCDD	26.29	0.811	NO	2.3678e3	1.1112e6	0.250	-10.3	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.590	NO	8.5436e3	8.6763e5	1.250	-11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.201	NO	6.9948e3	6.2109e5	1.250	-11.5	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	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	6.8531e3	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	OCDF	41.11	0.907	NO	8.8778e3	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	1.604	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	1.3929e4	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	1.0004e4	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	11.6	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.232	NO	7.1604e3	6.8684e5	1.250	-12.2	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	8.8161e3	1.8480e6	2.990	-13.7	12.2	0.888	0.106
18	13C-2,3,7,8-TCDD	26.27	0.767	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	7.3628e5	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



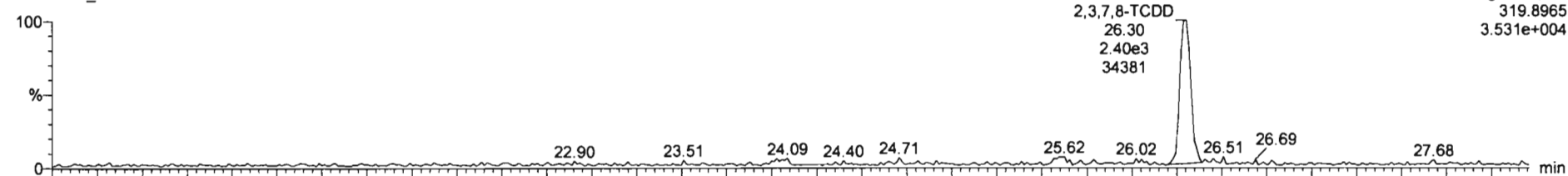
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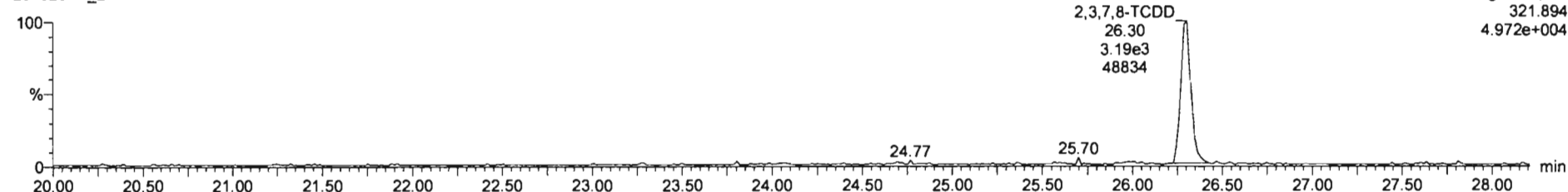
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2,3,7,8-TCDD

201020R1_2



201020R1_2

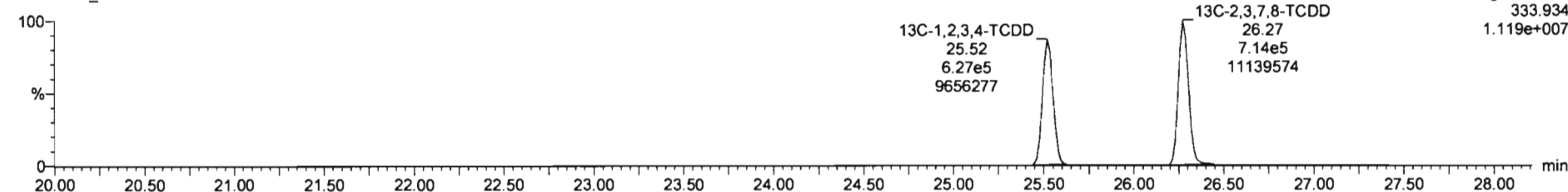


13C-2,3,7,8-TCDD

201020R1_2



201020R1_2



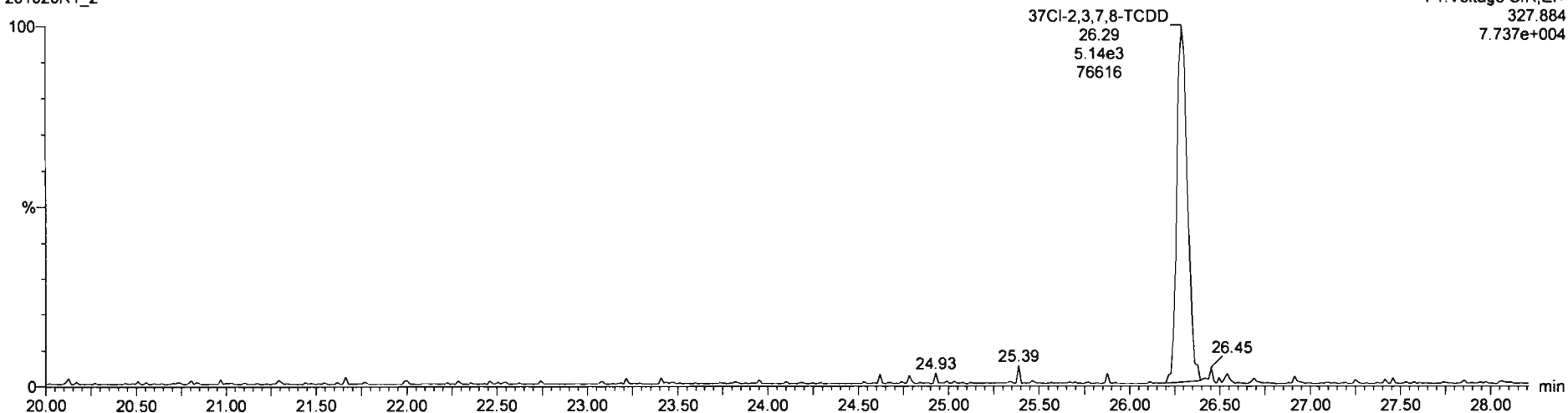
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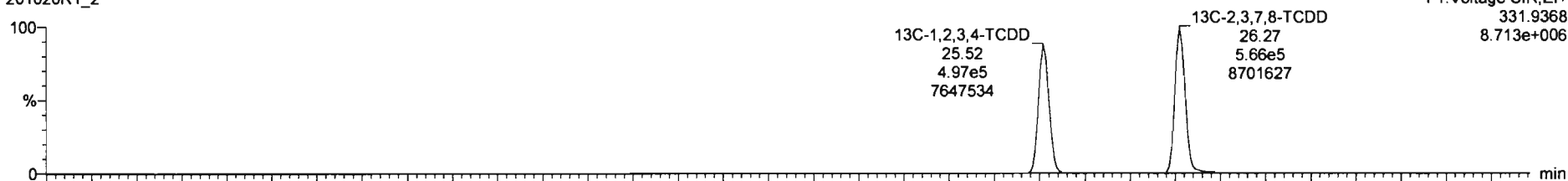
37Cl-2,3,7,8-TCDD

201020R1_2

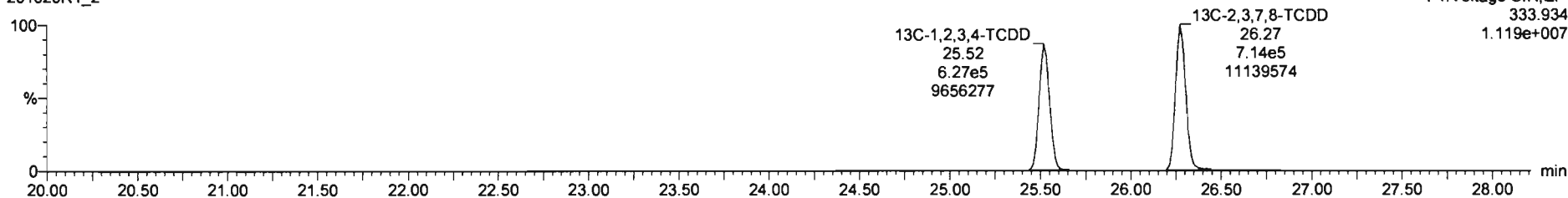


13C-1,2,3,4-TCDD

201020R1_2



201020R1_2



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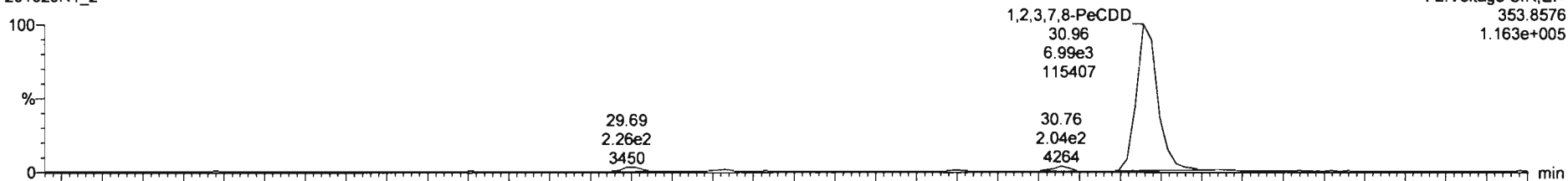
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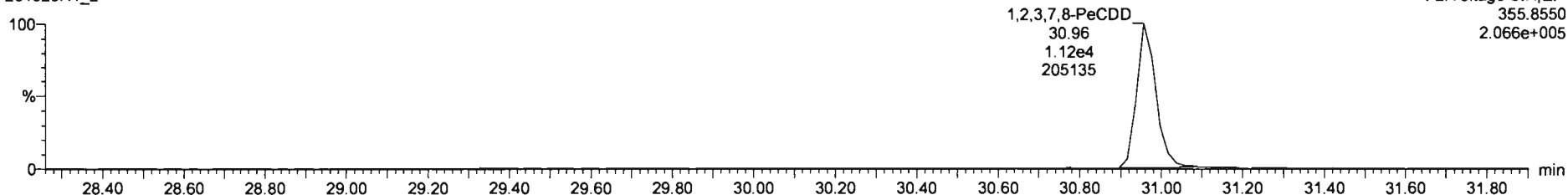
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1,2,3,7,8-PeCDD

201020R1_2

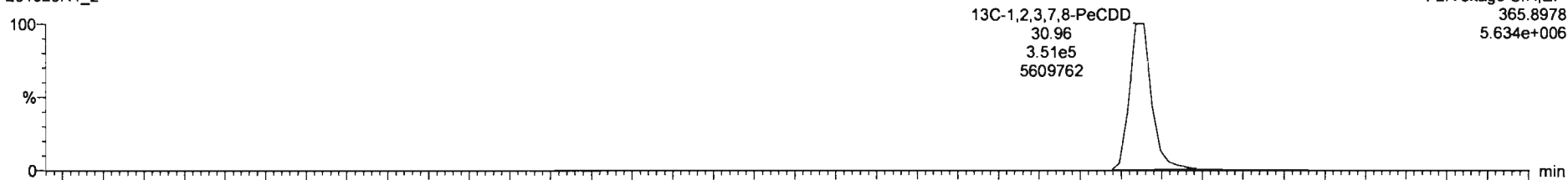


201020R1_2

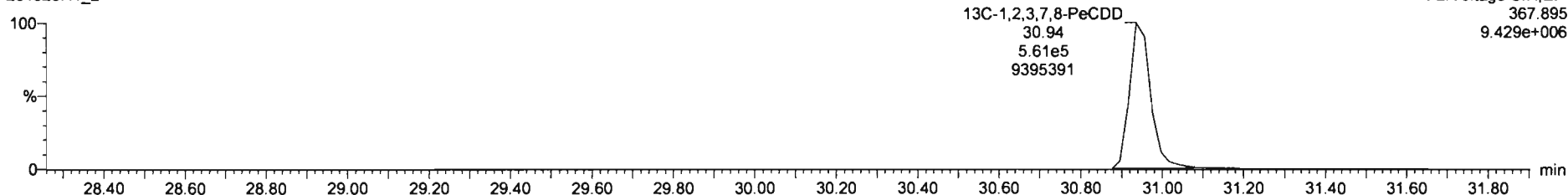


13C-1,2,3,7,8-PeCDD

201020R1_2



201020R1_2



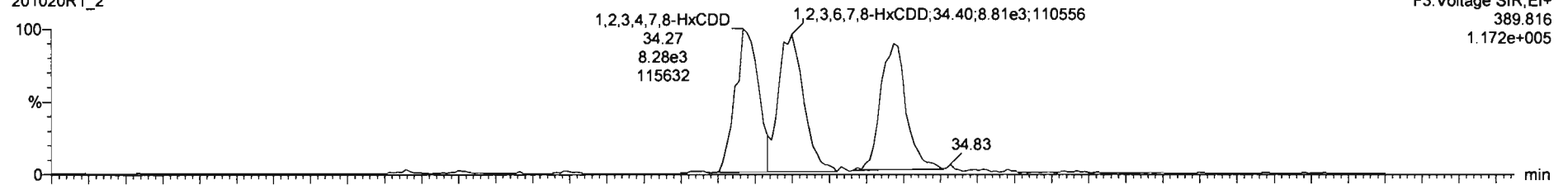
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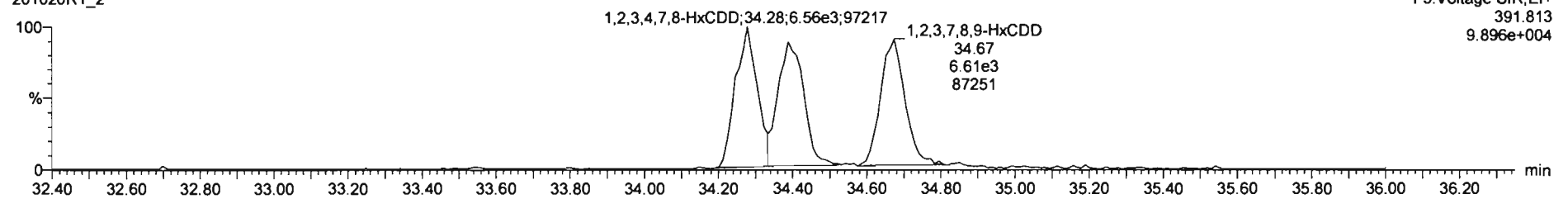
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1,2,3,4,7,8-HxCDD

201020R1_2

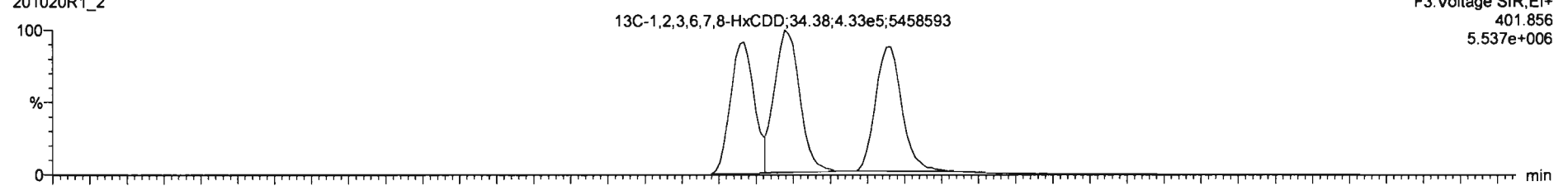


201020R1_2

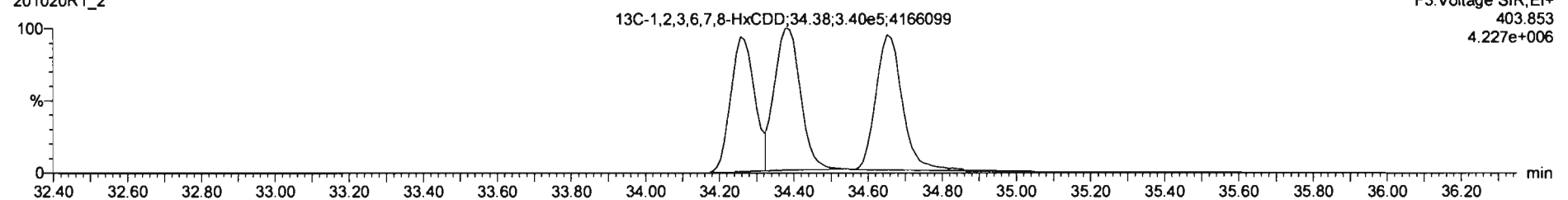


13C-1,2,3,4,7,8-HxCDD

201020R1_2



201020R1_2



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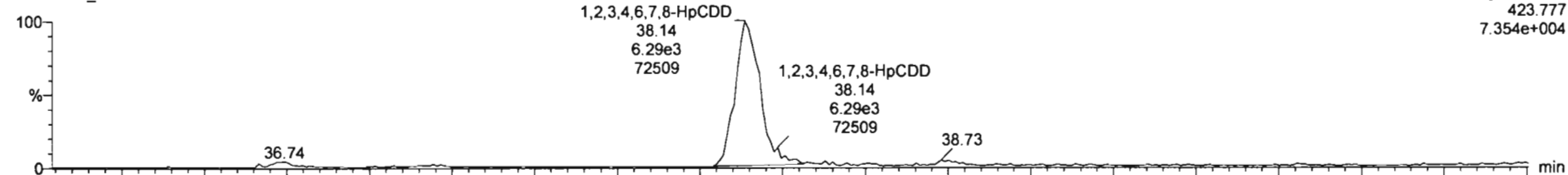
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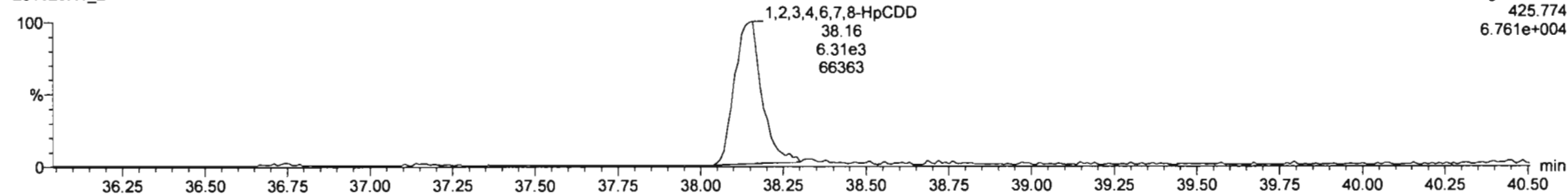
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1,2,3,4,6,7,8-HpCDD

201020R1_2

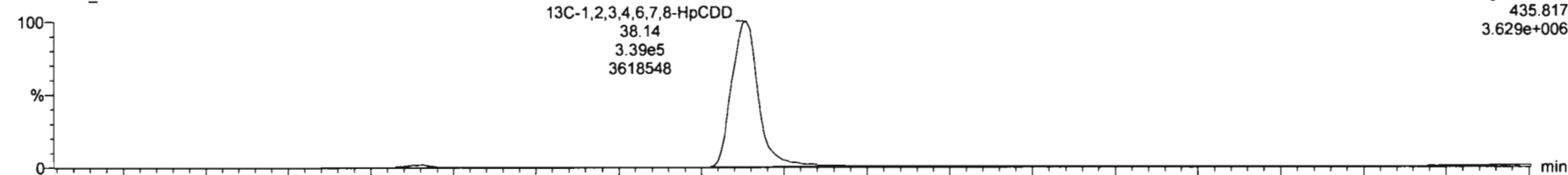


201020R1_2

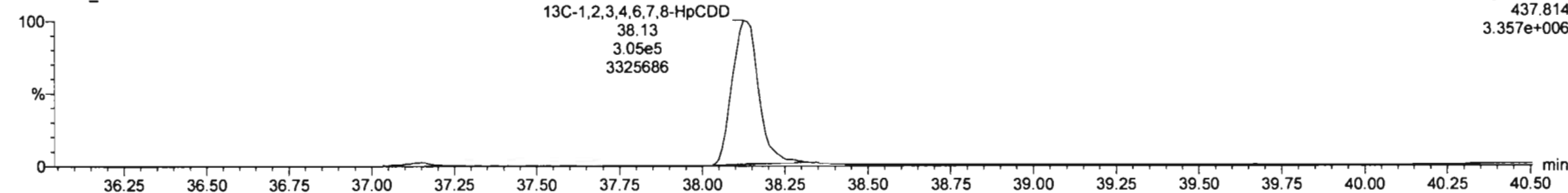


13C-1,2,3,4,6,7,8-HpCDD

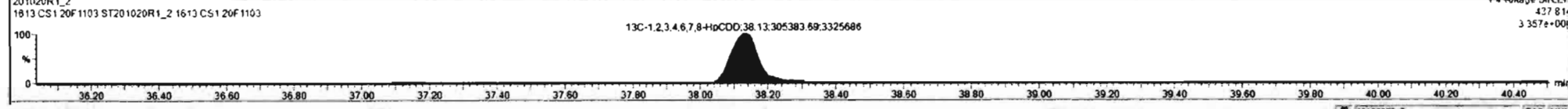
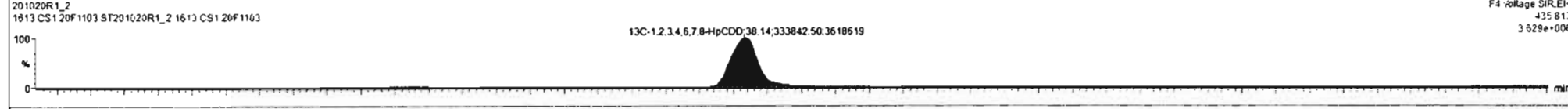
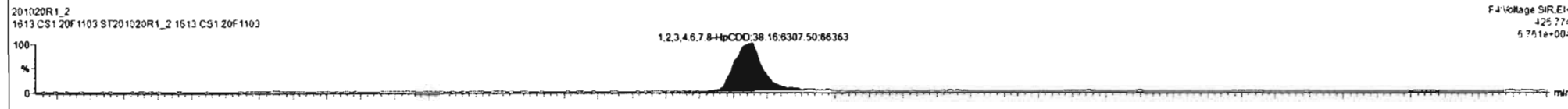
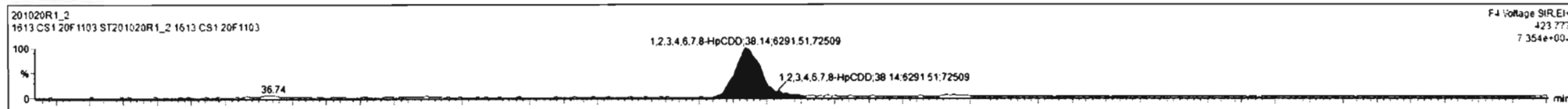
201020R1_2



201020R1_2



#	Name	RT	RA	yth	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.31	0.754	NO	5.5896e3	1.2795e6	0.500	-8.0	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.625	NO	1.8194e4	9.1149e5	2.500	-9.8	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.27	1.263	NO	1.4835e4	6.6505e5	2.500	-12.3	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.40	1.278	NO	1.5703e4	7.7295e5	2.500	-11.1	9.25	0.915	0.0848
5	1,2,3,7,8,9-HxCDD	34.87	1.239	NO	1.4811e4	7.1852e5	2.500	-11.8	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	36.14	0.897	NO	1.2548e4	6.3822e5	2.600	-8.0	11.7	0.876	0.182
7	OCDD	41.10	0.829	NO	2.8278e4	1.0815e6	5.000	-12.3	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.81	0.741	NO	8.3743e3	1.7020e6	0.500	-9.1	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.71	1.553	NO	2.8451e4	1.3045e6	2.500	-9.4	8.34	0.983	0.0802
10	2,3,4,7,8-PeCDF	30.77	1.585	NO	3.1092e4	1.2877e6	2.500	-9.6	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.216	NO	1.8105e4	9.2311e5	2.500	-13.2	11.9	0.853	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.289	NO	2.1295e4	9.5922e5	2.500	-11.9	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.17	1.242	NO	1.8735e4	8.7858e5	2.500	-13.9	11.6	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.196	NO	1.6178e4	7.8609e5	2.500	-14.5	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.73	0.858	NO	1.5353e4	7.2071e5	2.500	-14.7	14.0	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.063	NO	1.4403e4	5.7884e5	2.500	-11.4	12.2	1.12	0.137
17	OCDF	41.38	0.900	NO	2.3146e4	1.2351e6	5.000	-13.7	12.2	0.888	0.106
18	13C-2,3,7,8-TCDD	28.27	0.793	NO	1.2795e6	1.1246e6	100.000	2.6	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.96	0.626	NO	9.1149e5	1.1246e6	100.000	-5.6	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.273	NO	6.6505e5	9.7972e5	100.000	-3.0	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.38	1.275	NO	7.7295e5	9.7972e5	100.000	-5.3	6.74	0.833	0.0561



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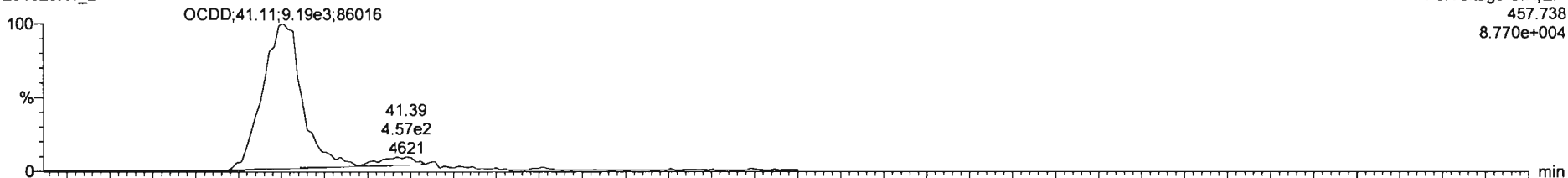
Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time
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Name: 201020R1_2, Date: 20-Oct-2020, Time: 10:04:05, ID: ST201020R1_2 1613 CS1 20F1103, Description: 1613 CS1 20F1103

OCDD

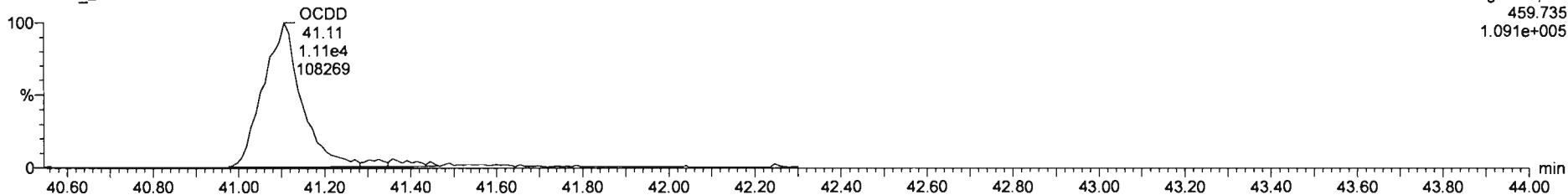
201020R1_2

F5:Voltage SIR,EI+
457.738
8.770e+004



201020R1_2

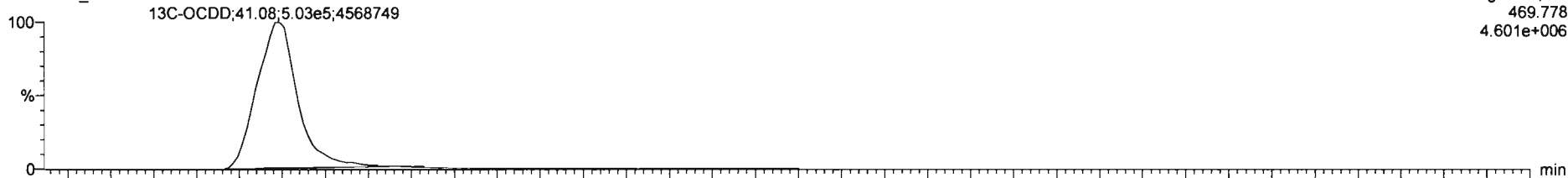
F5:Voltage SIR,EI+
459.735
1.091e+005



13C-OCDD

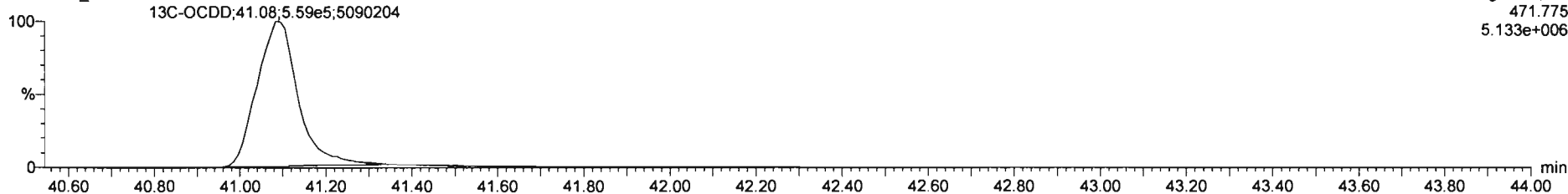
201020R1_2

F5:Voltage SIR,EI+
469.778
4.601e+006



201020R1_2

F5:Voltage SIR,EI+
471.775
5.133e+006



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

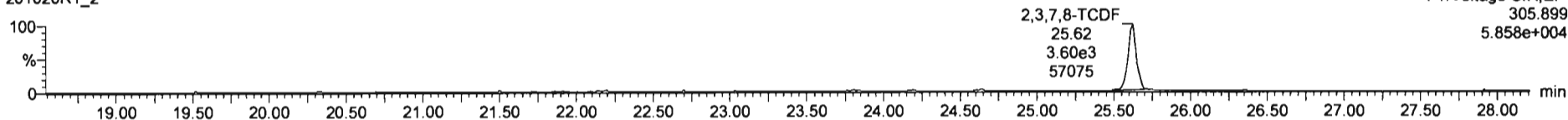
2,3,7,8-TCDF

201020R1_2



F1:Voltage SIR,EI+
303.9016
3.959e+004

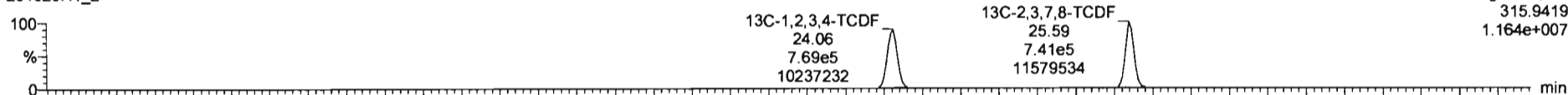
201020R1_2



F1:Voltage SIR,EI+
305.899
5.858e+004

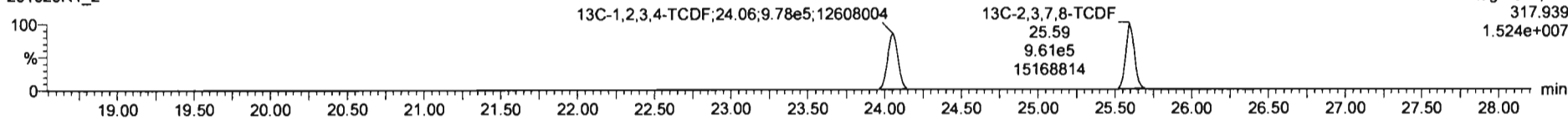
13C-2,3,7,8-TCDF

201020R1_2



F1:Voltage SIR,EI+
315.9419
1.164e+007

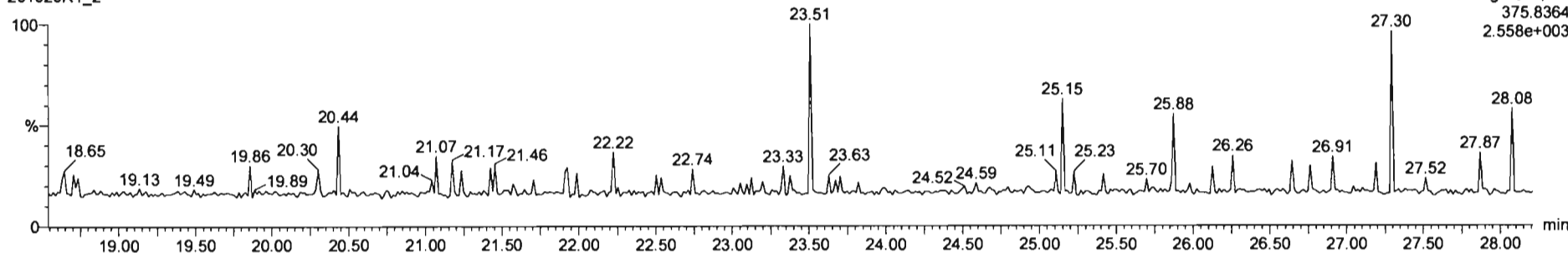
201020R1_2



F1:Voltage SIR,EI+
317.939
1.524e+007

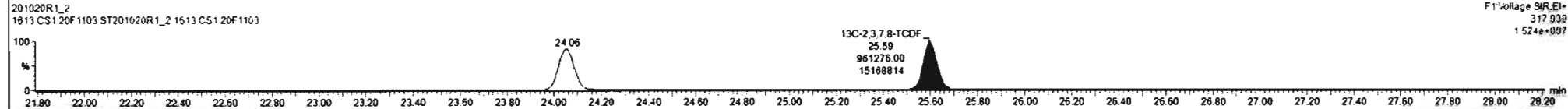
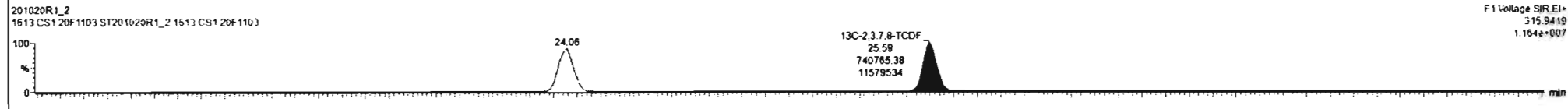
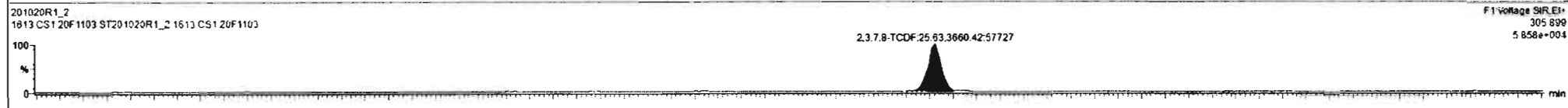
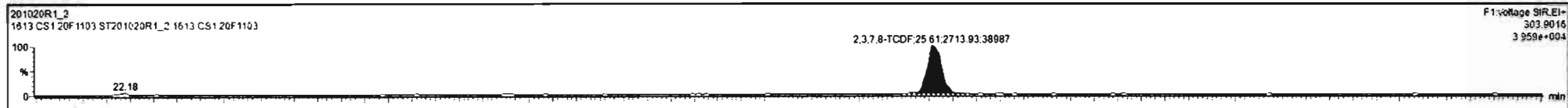
DPE1

201020R1_2



F1:Voltage SIR,EI+
375.8364
2.558e+003

#	Rt	Name	RT	RA	Yth	Area	IS Area	Std Conc	%Dev	%RSD	RRF #	RRF SD
1	26.31	2,3,7,8-TCDD	0.754	NO	5.589e3	1.279e6	0.500	-8.0	11.0	0.950	0.105	
2	30.96	1,2,3,7,8-PeCDD	0.625	NO	1.8194e4	9.1149e5	2.500	-9.8	9.58	0.885	0.0848	
3	34.27	1,2,3,4,7,8-HxCDD	1.263	NO	1.4835e4	6.6505e5	2.500	-12.3	10.0	1.02	0.102	
4	34.40	1,2,3,6,7,8-HxCDD	1.278	NO	1.5703e4	7.7295e5	2.500	-11.1	9.25	0.915	0.0846	
5	34.67	1,2,3,7,8,9-HxCDD	1.239	NO	1.4811e4	7.1852e5	2.500	-11.8	11.1	0.934	0.104	
6	38.14	1,2,3,4,6,7,8-HpCDD	0.997	NO	1.2599e4	6.3923e5	2.500	-9.4	11.7	0.870	0.102	
7	41.10	OCDD	0.829	NO	2.0278e4	1.0615e6	5.000	-12.3	10.5	0.872	0.0919	
8	25.81	2,3,7,8-TCDF	0.741	NO	6.3743e3	1.7023e6	0.500	-8.1	11.0	0.924	0.0998	
9	29.71	1,2,3,7,8-PeCDF	1.553	NO	2.8451e4	1.3045e6	2.500	-9.4	8.34	0.963	0.0602	
10	30.77	1,2,3,4,7,8-PeCDF	1.586	NO	3.1092e4	1.2877e6	2.500	-9.6	8.76	1.07	0.0936	
11	33.37	1,2,3,4,7,8-HxCDF	1.216	NO	1.9105e4	9.2311e5	2.500	-13.2	11.9	0.953	0.113	
12	33.50	1,2,3,6,7,8-HxCDF	1.289	NO	2.1295e4	9.5922e5	2.500	-11.9	11.1	1.01	0.112	
13	34.17	1,2,3,4,8,9-HxCDF	1.242	NO	1.8735e4	8.7856e5	2.500	-13.9	11.6	0.991	0.117	
14	35.18	1,2,3,7,8,9-HxCDF	1.196	NO	1.6178e4	7.9609e5	2.500	-14.5	12.3	0.951	0.117	
15	36.73	1,2,3,4,6,7,8-HpCDF	0.958	NO	1.5353e4	7.2071e5	2.500	-14.7	14.9	0.998	0.149	
16	38.77	1,2,3,4,7,8,9-HpCDF	1.003	NO	1.4403e4	5.7884e5	2.500	-11.4	12.2	1.12	0.137	
17	41.39	OCDF	0.900	NO	2.3148e4	1.2351e6	5.000	-13.7	12.2	0.868	0.106	
18	26.27	13C-2,3,7,8-TCDD	0.793	NO	1.2795e6	1.1246e6	100.000	2.6	3.19	1.11	0.0354	
19	30.36	13C-1,2,3,7,8-PeCDD	0.626	NO	9.1149e5	1.1246e6	100.000	-5.6	6.80	0.859	0.0584	
20	34.27	13C-1,2,3,4,7,8-HxCDD	1.273	NO	6.8505e5	9.7972e5	100.000	-3.0	7.67	0.700	0.0537	
21	34.38	13C-1,2,3,6,7,8-HxCDD	1.275	NO	7.7295e5	9.7972e5	100.000	-5.3	6.74	0.833	0.0561	



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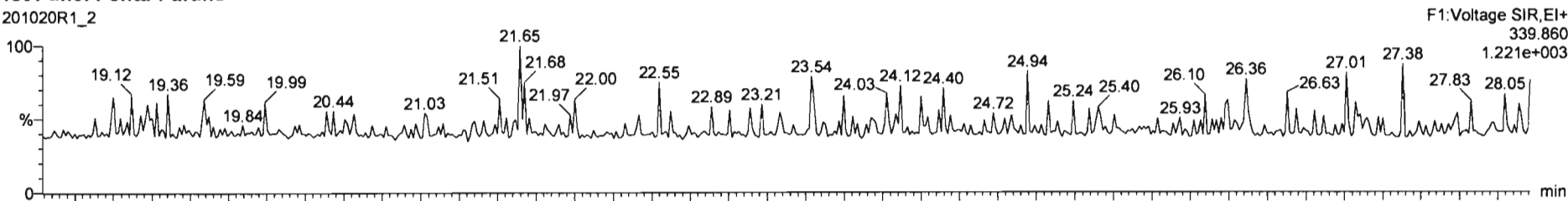
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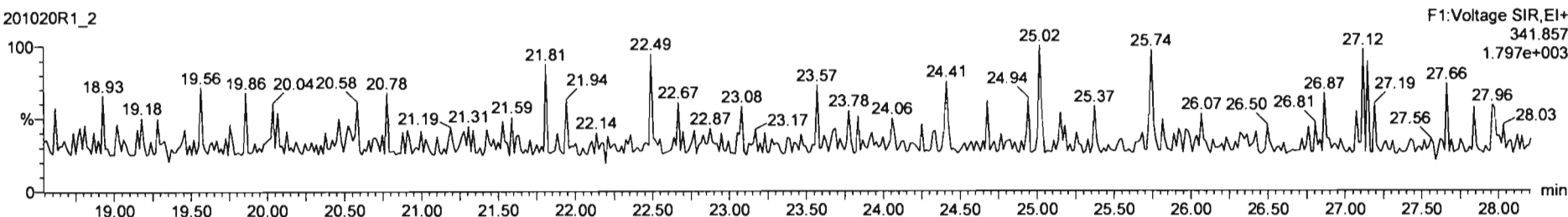
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1st Func. Penta-Furans

201020R1_2

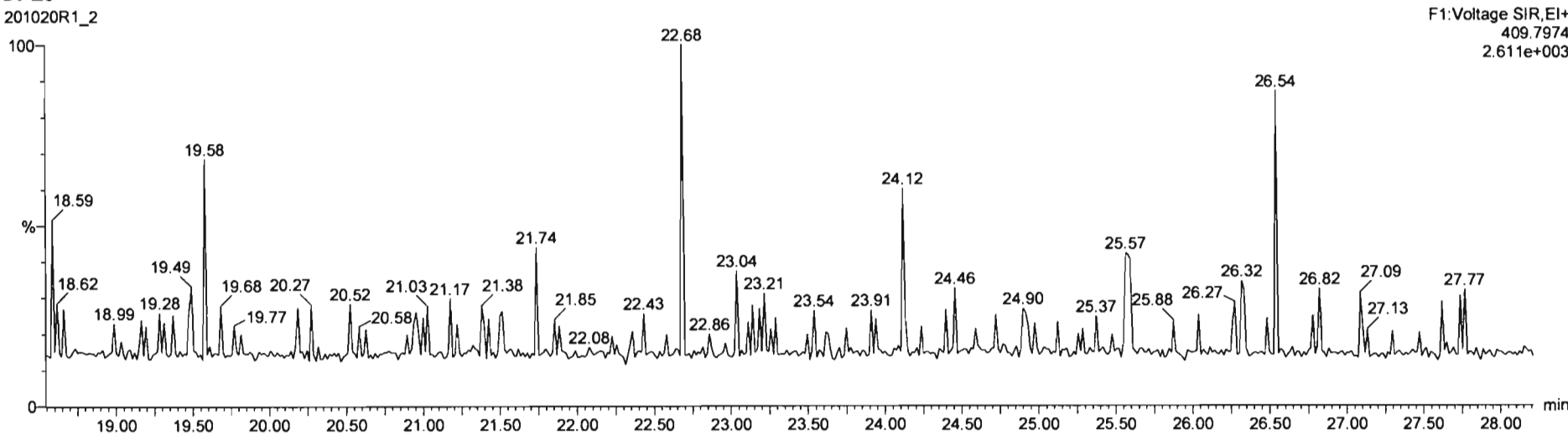


201020R1_2



DPE6

201020R1_2



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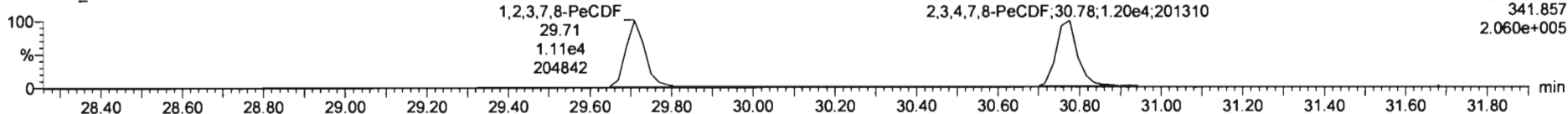
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1,2,3,7,8-PeCDF

201020R1_2

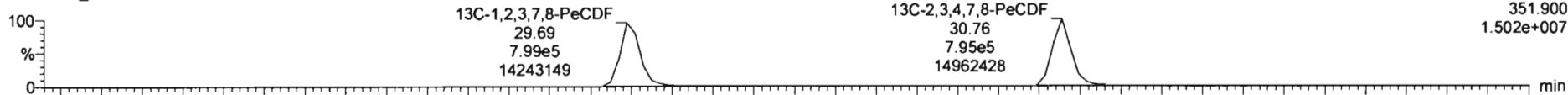


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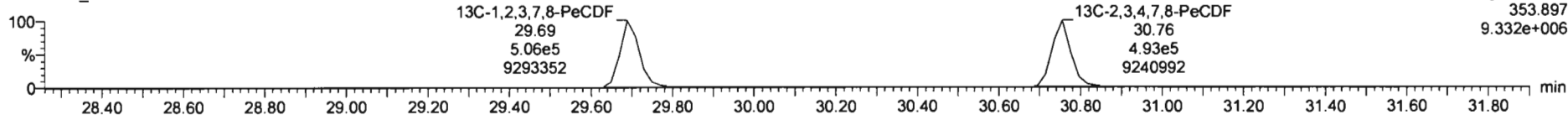


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201020R1_2

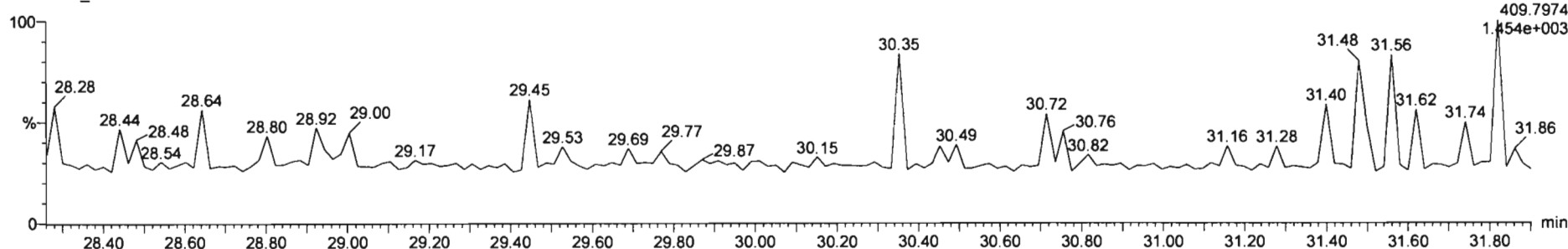


201020R1_2



DPE2

201020R1_2



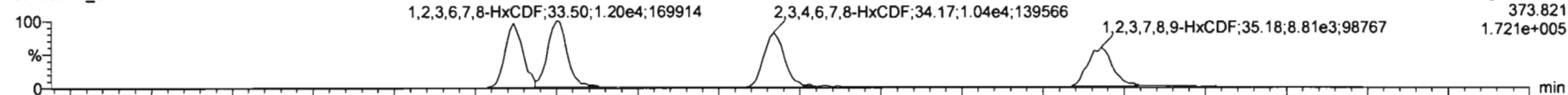
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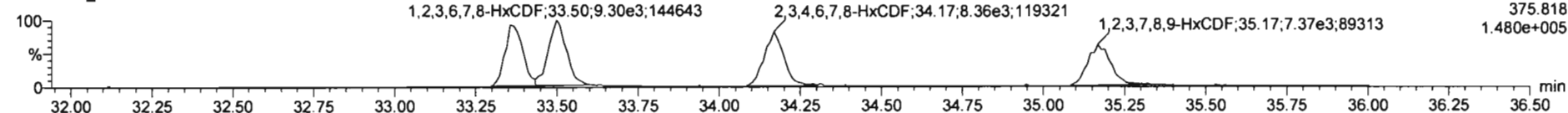
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1,2,3,4,7,8-HxCDF

201020R1_2

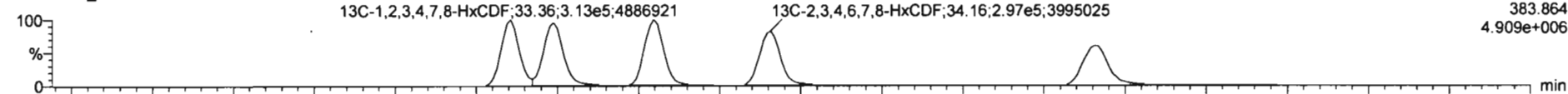


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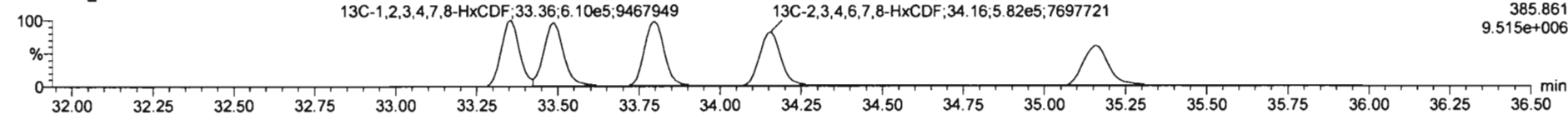


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201020R1_2

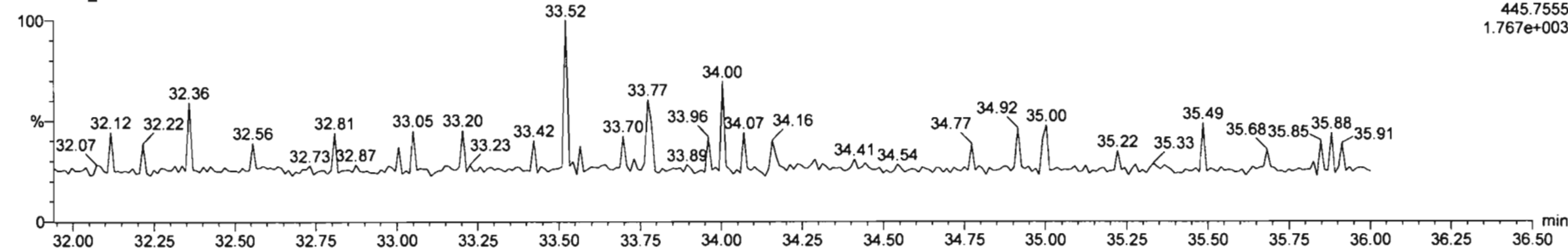


201020R1_2



DPE3

201020R1_2



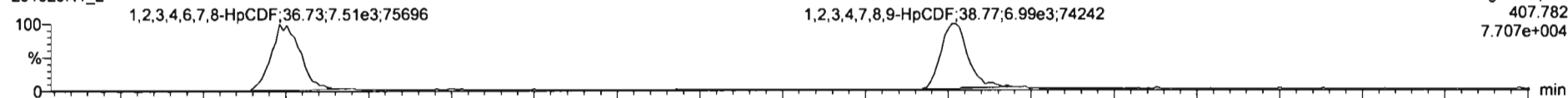
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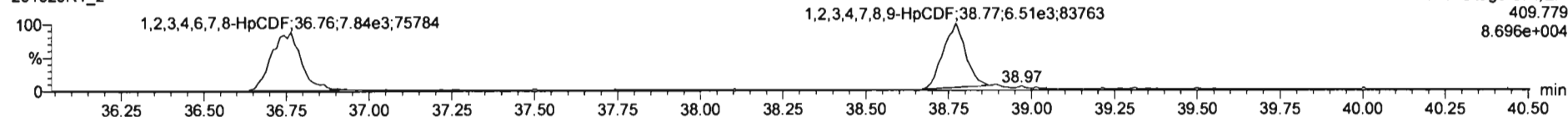
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1,2,3,4,6,7,8-HpCDF

201020R1_2

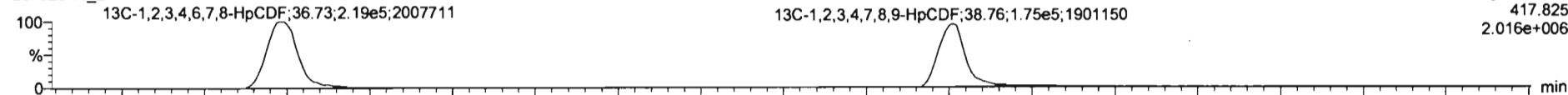


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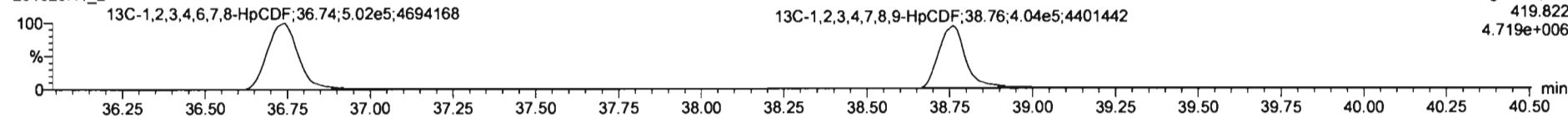


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201020R1_2

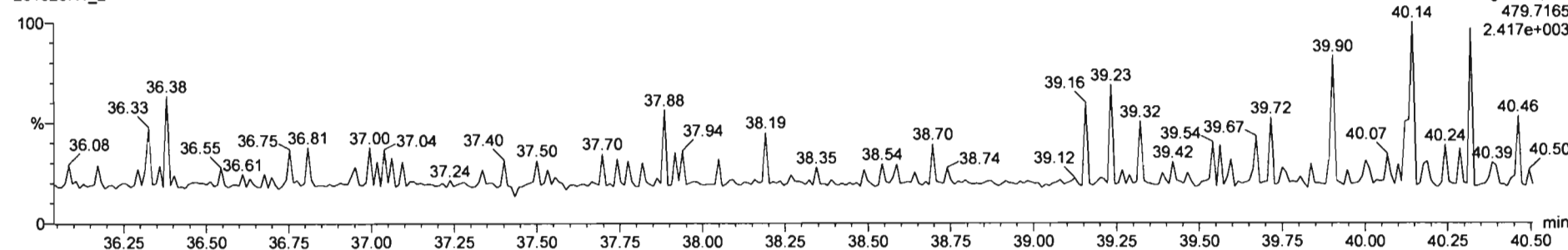


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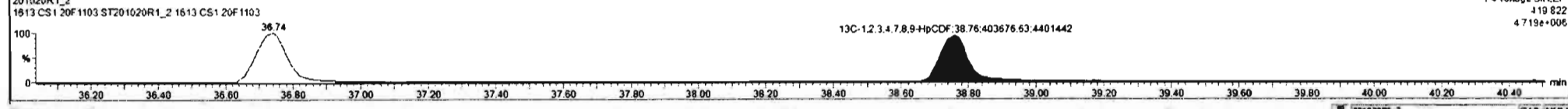
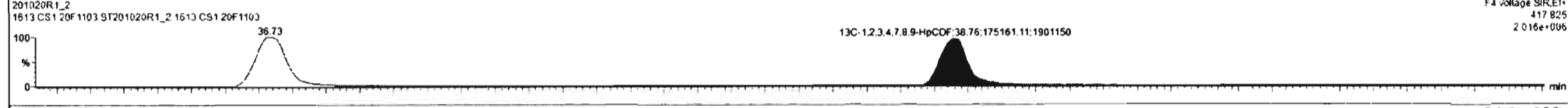
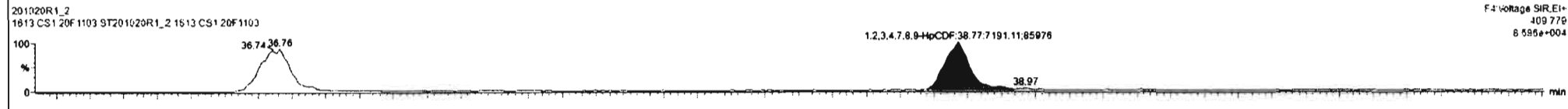
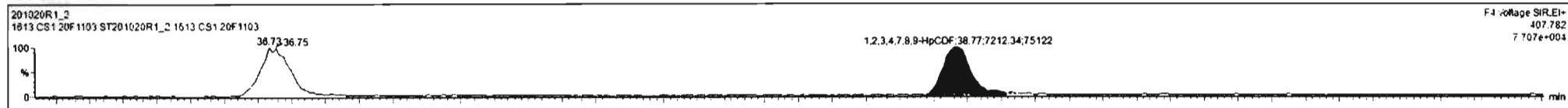
DPE4

201020R1_2



201020R1_2 - S1201020R1_2 1613 CS1 20F 1103 1613 CS1 20F 1103

#	Rt	Name	RT	RA	ym	Area	IS Area	Std Conc	%Dev	%RSD	RRF N...	RRF SD
1	26.31	2,3,7,8-TCDD	26.31	0.754	NO	5.5896e3	1.2795e6	0.500	-8.0	11.0	0.950	0.105
2	30.96	1,2,3,7,8-PeCDD	30.96	0.625	NO	1.8194e4	9.1149e5	2.500	-9.8	9.58	0.885	0.0848
3	34.27	1,2,3,4,7,8-HxCDD	34.27	1.263	NO	1.4835e4	6.6505e5	2.500	-12.3	10.0	1.02	0.102
4	34.40	1,2,3,6,7,8-HxCDD	34.40	1.278	NO	1.5703e4	7.7295e5	2.500	-11.1	9.25	0.915	0.0846
5	34.67	1,2,3,7,8,9-HxCDD	34.67	1.239	NO	1.4811e4	7.1852e5	2.500	-11.8	11.1	0.934	0.104
6	38.14	1,2,3,4,6,7,8-HpCDD	38.14	0.997	NO	1.2599e4	6.3923e5	2.500	9.4	11.7	0.870	0.102
7	41.10	OCDD	41.10	0.829	NO	2.0278e4	1.0615e6	5.000	-12.3	10.5	0.872	0.0919
8	25.81	2,3,7,8-TCDF	25.81	0.741	NO	8.3743e3	1.7020e6	0.500	-9.1	11.0	0.824	0.0906
9	29.71	1,2,3,7,8-PeCDF	29.71	1.553	NO	2.8451e4	1.3045e6	2.500	-9.4	8.34	0.963	0.0802
10	30.77	2,3,4,7,8-PeCDF	30.77	1.585	NO	3.1092e4	1.2877e6	2.500	-9.6	8.76	1.07	0.0936
11	33.37	1,2,3,4,7,8-HxCDF	33.37	1.216	NO	1.8105e4	9.2311e5	2.500	-13.2	11.9	0.853	0.113
12	33.50	1,2,3,6,7,8-HxCDF	33.50	1.289	NO	2.1295e4	9.5922e5	2.500	-11.9	11.1	1.01	0.112
13	34.17	2,3,4,6,7,8-HxCDF	34.17	1.242	NO	1.8735e4	8.7856e5	2.500	-13.9	11.6	0.991	0.117
14	35.18	1,2,3,7,8,9-HxCDF	35.18	1.196	NO	1.6178e4	7.9609e5	2.500	-14.5	12.3	0.951	0.117
15	36.73	1,2,3,4,6,7,8-HpCDF	36.73	0.958	NO	1.5353e4	7.2071e5	2.500	-14.7	14.9	0.990	0.149
16	38.77	1,2,3,4,7,8,9-HpCDF	38.77	1.903	NO	1.4402e4	5.7884e5	2.500	-11.4	12.2	1.12	0.137
17	41.38	OCDF	41.38	0.900	NO	2.3148e4	1.2351e6	5.000	-13.7	12.2	0.868	0.106
18	28.27	13C-2,3,7,8-TCDD	28.27	0.793	NO	1.2795e6	1.1246e6	100.000	2.6	3.19	1.11	0.0354
19	30.96	13C-1,2,3,7,8-PeCDD	30.96	0.626	NO	9.1149e5	1.1246e6	100.000	-5.6	6.80	0.859	0.0584
20	34.27	13C-1,2,3,4,7,8-HxCDD	34.27	1.273	NO	6.6505e5	9.7972e5	100.000	-3.0	7.67	0.700	0.0537
21	34.38	13C-1,2,3,6,7,8-HxCDD	34.38	1.275	NO	7.7295e5	9.7972e5	100.000	-5.3	6.74	0.833	0.0561



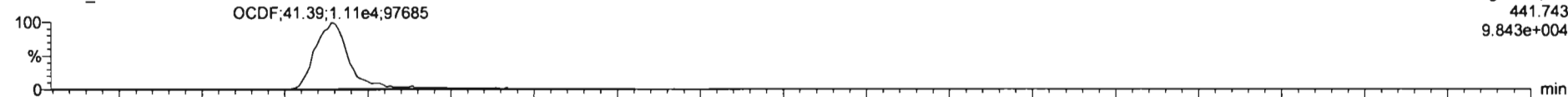
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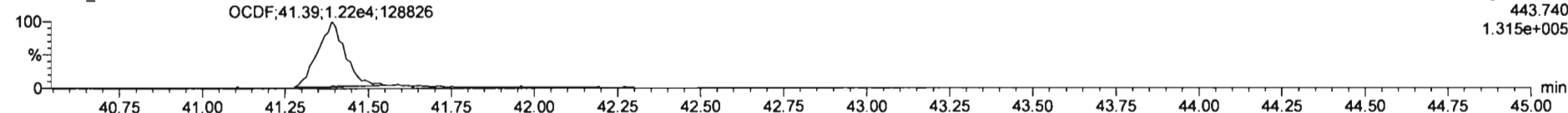
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OCDF

201020R1_2

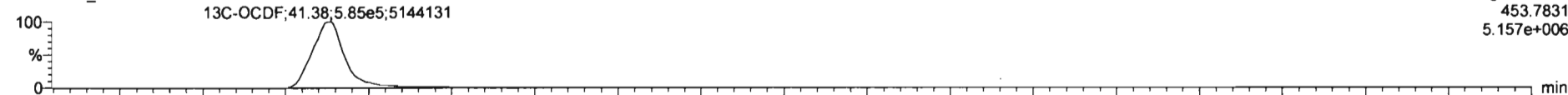


201020R1_2

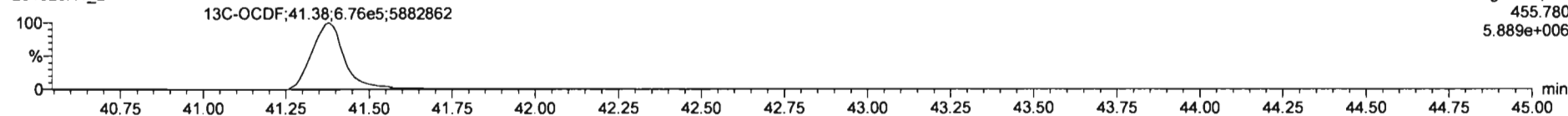


13C-OCDF

201020R1_2

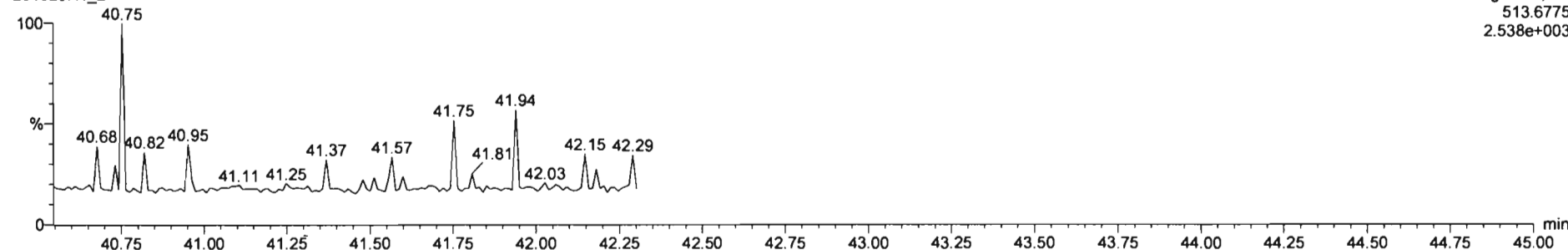


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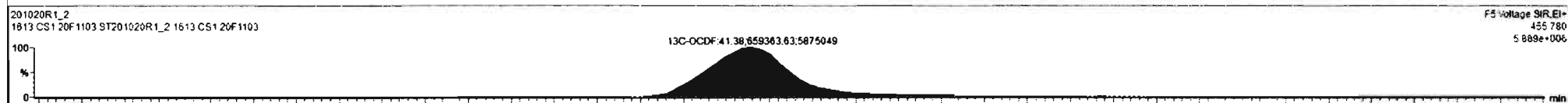
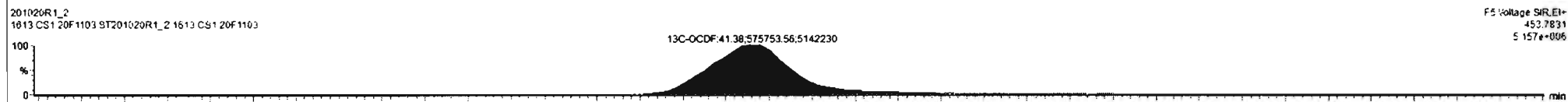
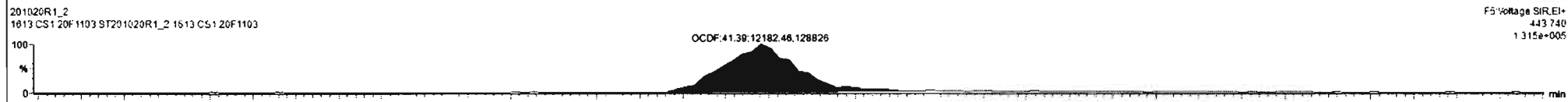
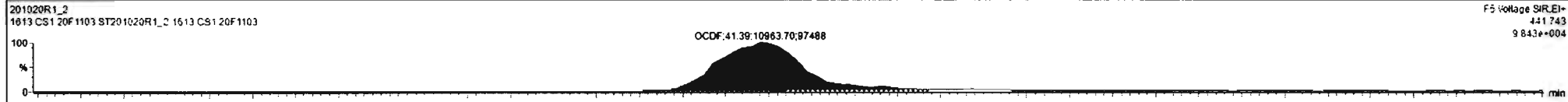


DPE5

201020R1_2



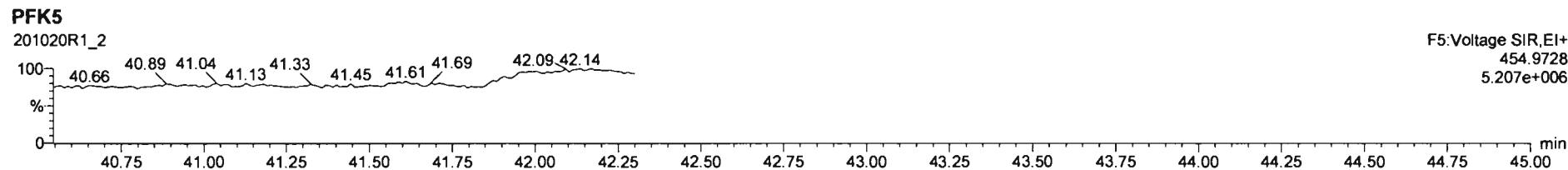
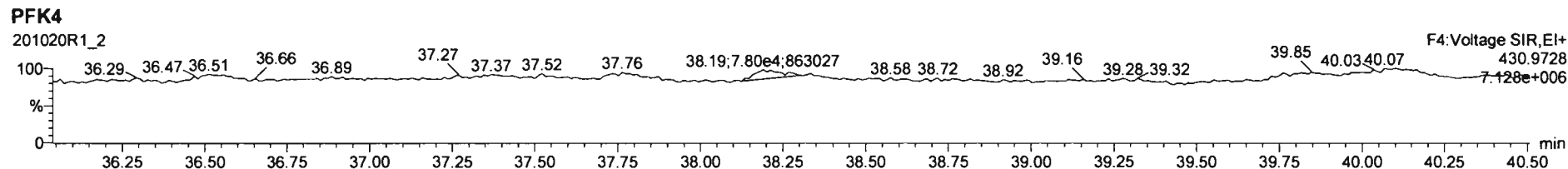
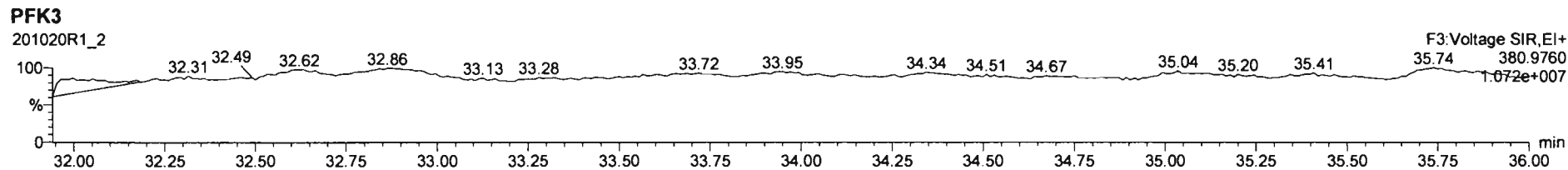
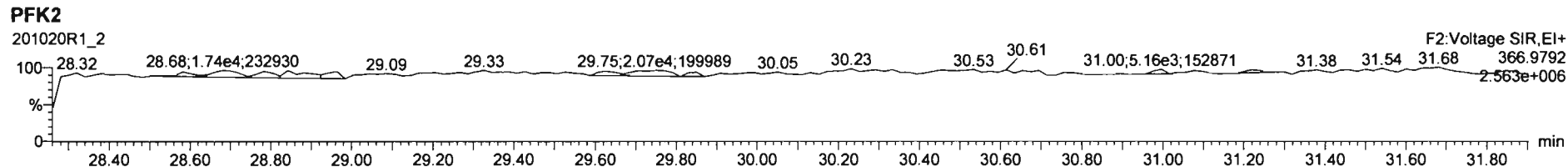
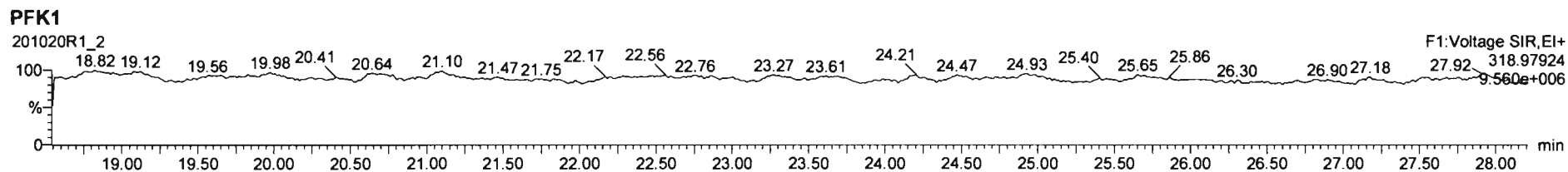
#	P.	Name	RT	RA	ym	Area	S Area	Std. Conc.	%Dev	%RSD	RRF M...	RRF SD
1	1	2,3,7,8-TCDD	26.31	0.754	NO	5.5896e3	1.2795e6	0.500	-8.0	11.0	0.950	0.105
2	2	1,2,3,7,8-PeCDD	30.96	0.825	NO	1.8194e4	9.1149e5	2.500	-9.8	9.58	0.885	0.0848
3	3	1,2,3,4,7,8-HxCDD	34.27	1.263	NO	1.4835e4	6.6505e5	2.500	-12.3	10.0	1.02	0.102
4	4	1,2,3,6,7,8-HxCDD	34.40	1.278	NO	1.5703e4	7.7295e5	2.500	-11.1	9.25	0.915	0.0648
5	5	1,2,3,7,8,9-HxCDD	34.67	1.239	NO	1.4811e4	7.1852e5	2.500	-11.8	11.1	0.934	0.104
6	6	1,2,3,4,6,7,8-HpCDD	38.14	0.967	NO	1.2598e4	6.3923e5	2.500	-9.4	11.7	0.870	0.102
7	7	OCDD	41.10	0.829	NO	2.0278e4	1.0815e6	5.000	-12.3	10.5	0.872	0.0919
8	8	2,3,7,8-TCDF	25.61	0.741	NO	6.3743e3	1.7020e6	0.500	-9.1	11.0	0.824	0.0906
9	9	1,2,3,7,8-PeCDF	29.71	1.553	NO	2.8451e4	1.3045e6	2.500	-9.4	8.34	0.983	0.0802
10	10	2,3,4,7,8-PeCDF	30.77	1.585	NO	3.1082e4	1.2877e6	2.500	-9.6	8.76	1.07	0.0936
11	11	1,2,3,4,7,8-HxCDF	33.37	1.216	NO	1.8105e4	9.2311e5	2.500	-13.2	11.9	0.853	0.113
12	12	1,2,3,6,7,8-HxCDF	33.50	1.289	NO	2.1285e4	9.5922e5	2.500	-11.9	11.1	1.01	0.112
13	13	2,3,4,6,7,8-HxCDF	34.17	1.242	NO	1.8735e4	8.7856e5	2.500	-13.9	11.8	0.891	0.117
14	14	1,2,3,7,8,9-HxCDF	35.18	1.196	NO	1.6178e4	7.9609e5	2.500	-14.5	12.3	0.951	0.117
15	15	1,2,3,4,6,7,8-HpCDF	36.73	0.956	NO	1.5353e4	7.2071e5	2.500	-14.7	14.9	0.899	0.149
16	16	1,2,3,4,7,8,9-HpCDF	38.77	1.003	NO	1.4403e4	5.7884e5	2.500	-11.4	12.2	1.12	0.137
17	17	OCDF	41.38	0.806	NO	2.3148e4	1.2351e6	5.000	-13.7	12.2	0.898	0.108
18	18	13C-2,3,7,8-TCDD	26.27	0.793	NO	1.2795e6	1.1246e6	100.000	2.8	3.19	1.11	0.0354
19	19	13C-1,2,3,7,8-PeCDD	30.96	0.626	NO	9.1149e5	1.1246e6	100.000	-5.8	6.80	0.859	0.0584
20	20	13C-1,2,3,4,7,8-HxCDD	34.27	1.273	NO	6.8505e5	9.7972e5	100.000	-3.8	7.67	0.700	0.0537
21	21	13C-1,2,3,6,7,8-HxCDD	34.38	1.275	NO	7.7295e5	9.7972e5	100.000	-5.3	6.74	0.833	0.0581



Dataset: Untitled

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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

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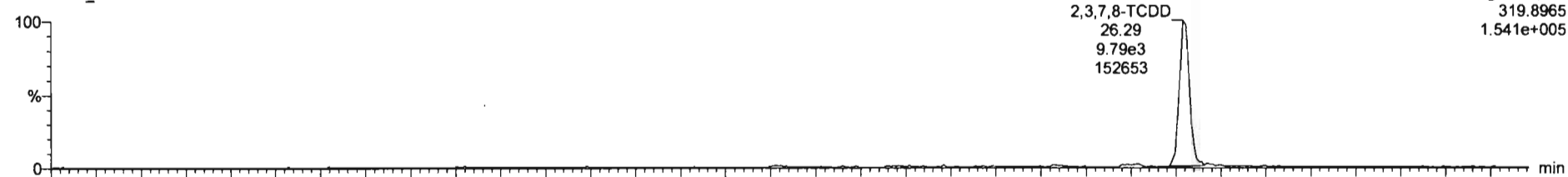
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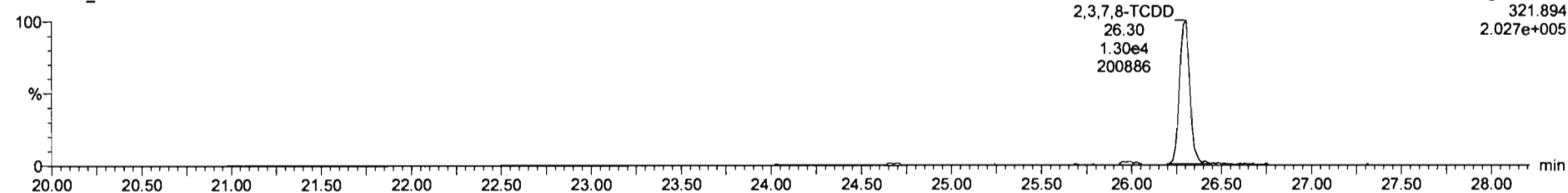
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2,3,7,8-TCDD

201020R1_3

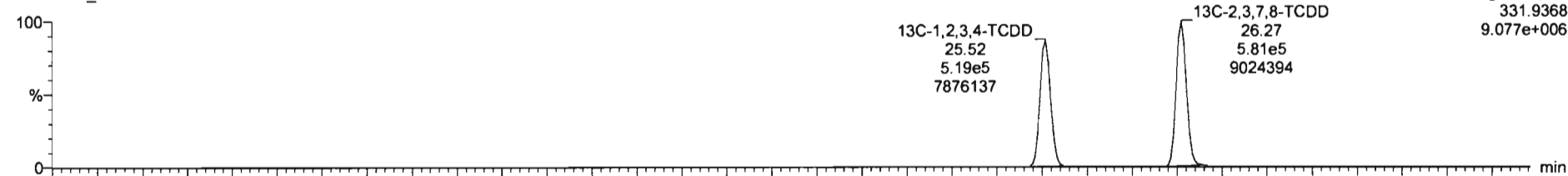


201020R1_3

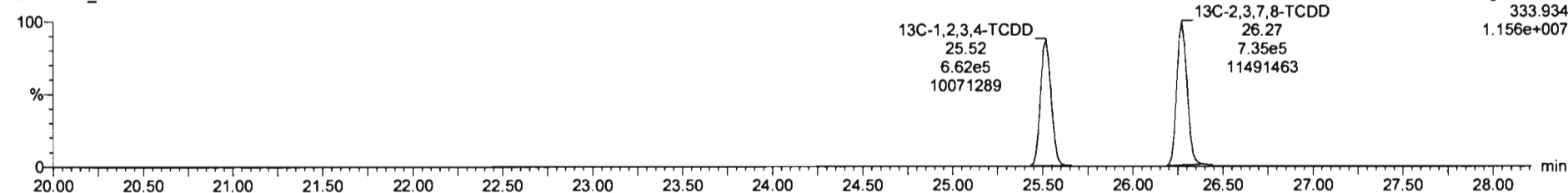


13C-2,3,7,8-TCDD

201020R1_3



201020R1_3



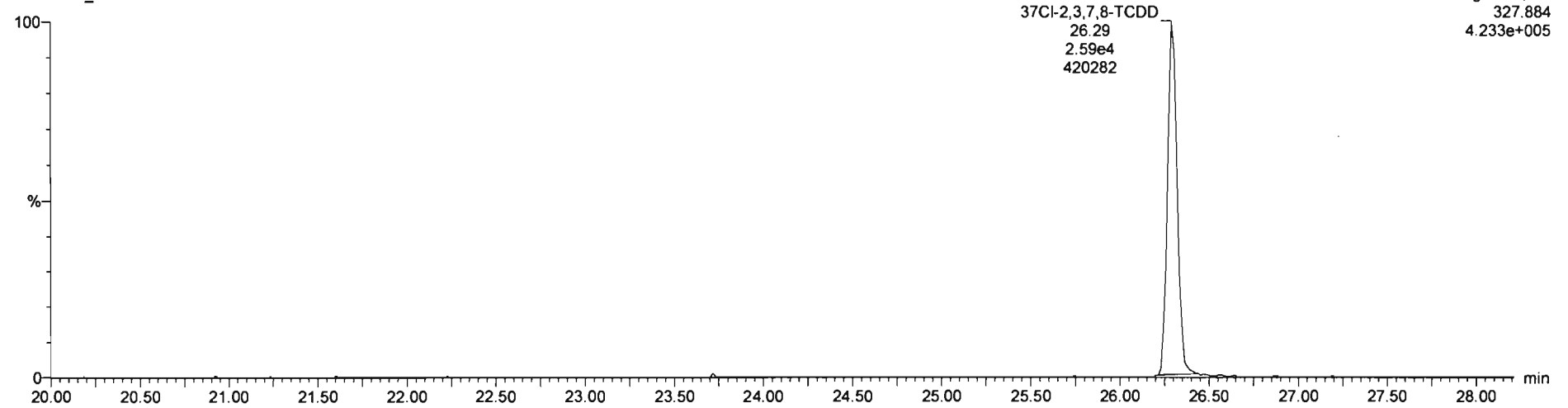
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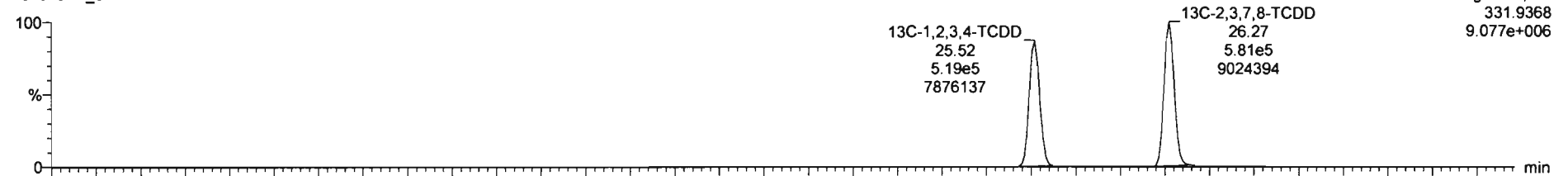
37Cl-2,3,7,8-TCDD

201020R1_3

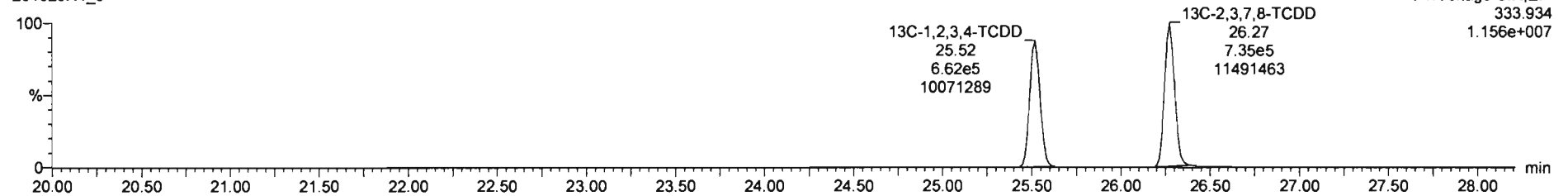


13C-1,2,3,4-TCDD

201020R1_3



201020R1_3



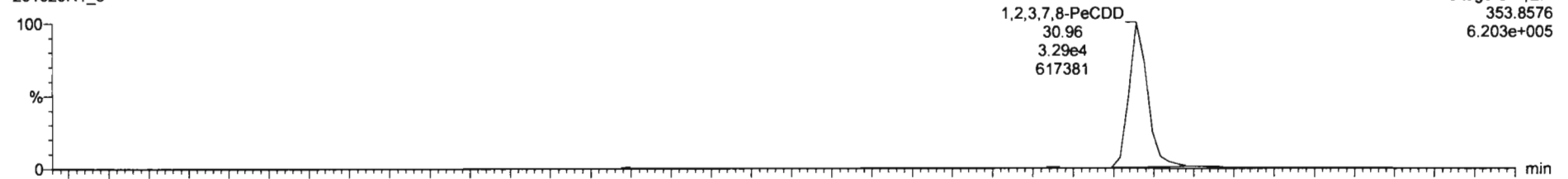
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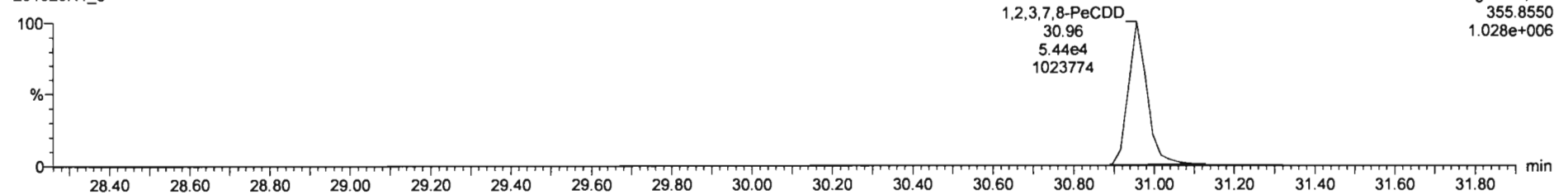
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1,2,3,7,8-PeCDD

201020R1_3

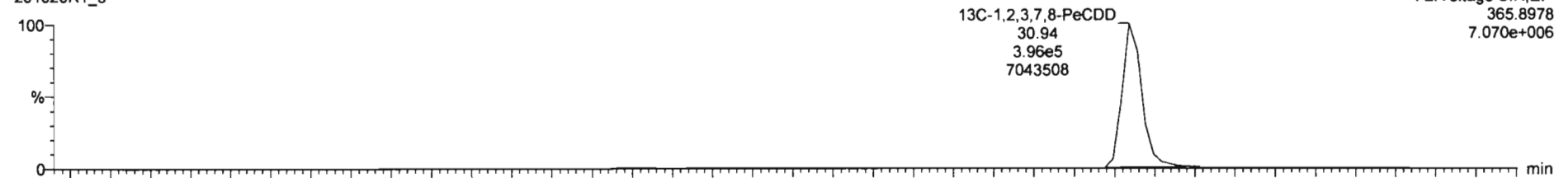


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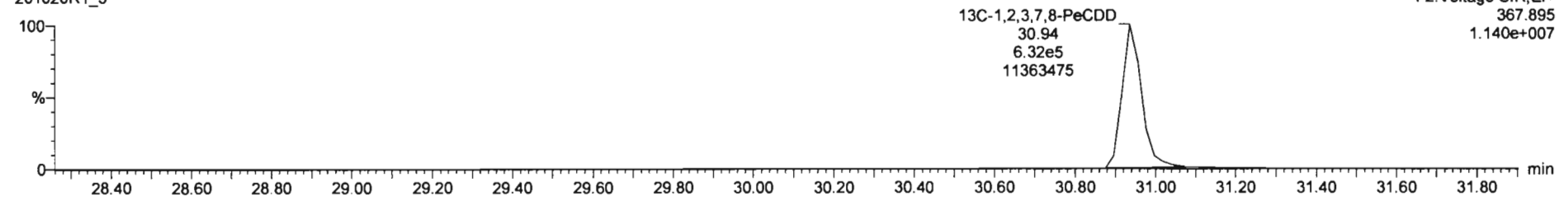


13C-1,2,3,7,8-PeCDD

201020R1_3



201020R1_3



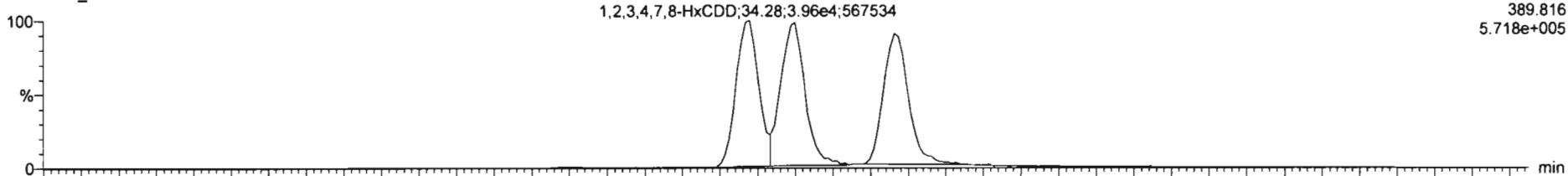
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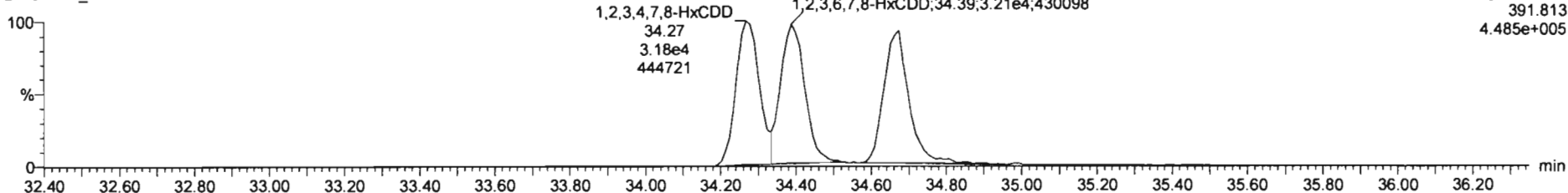
1,2,3,4,7,8-HxCDD

201020R1_3



F3:Voltage SIR,EI+
389.816
5.718e+005

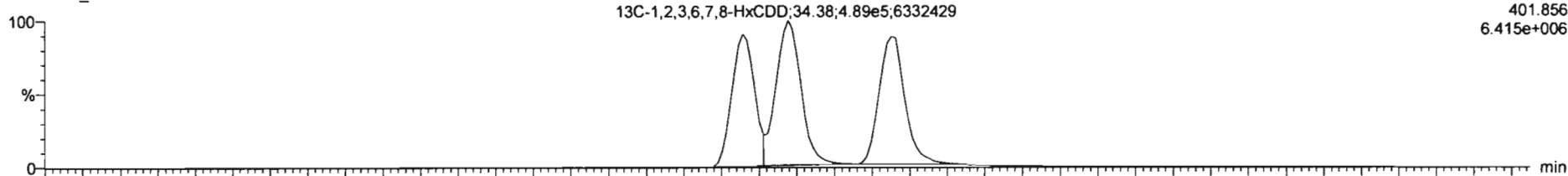
201020R1_3



F3:Voltage SIR,EI+
391.813
4.485e+005

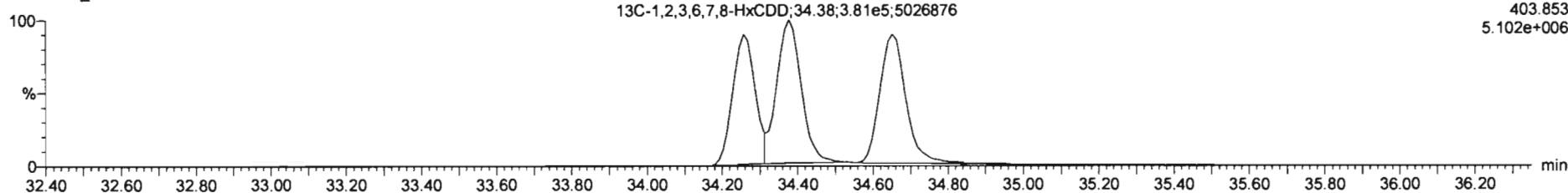
13C-1,2,3,4,7,8-HxCDD

201020R1_3



F3:Voltage SIR,EI+
401.856
6.415e+006

201020R1_3



F3:Voltage SIR,EI+
403.853
5.102e+006

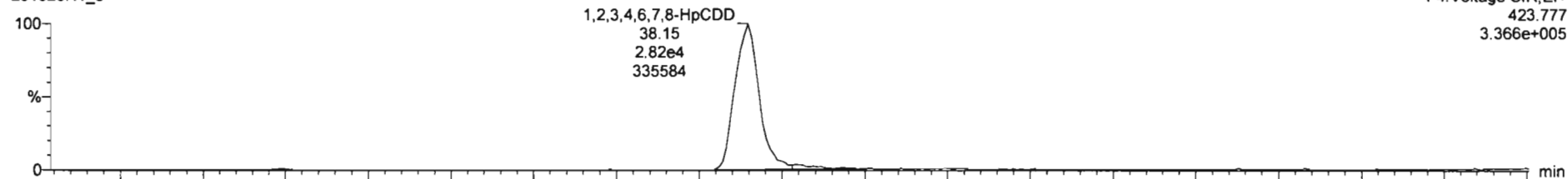
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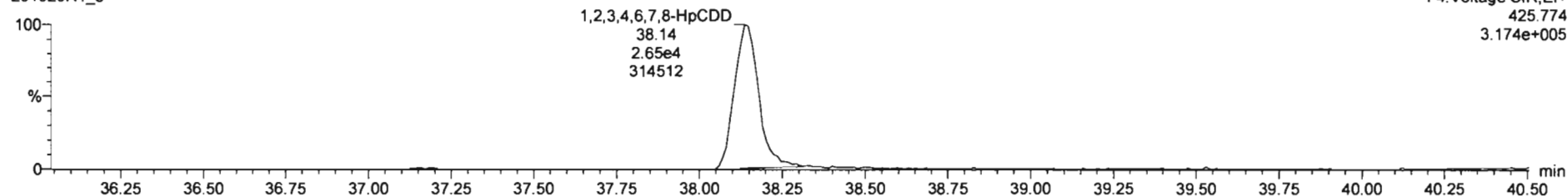
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1,2,3,4,6,7,8-HpCDD

201020R1_3

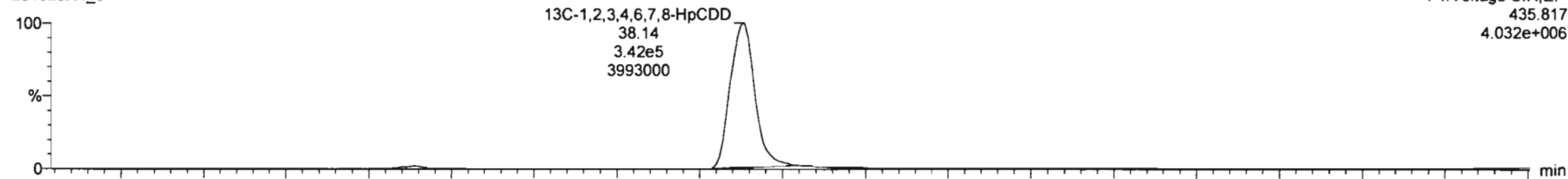


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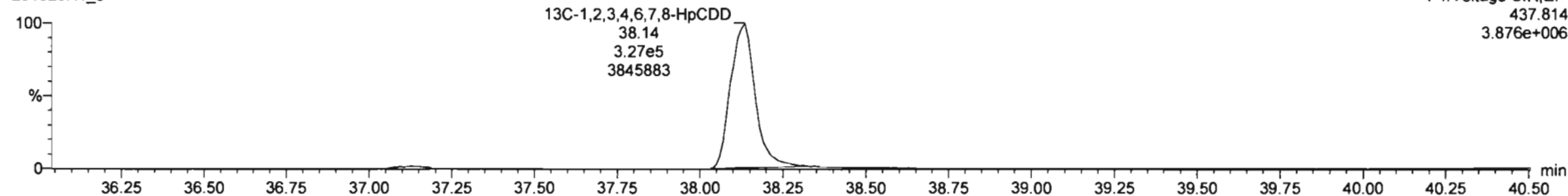


13C-1,2,3,4,6,7,8-HpCDD

201020R1_3



201020R1_3



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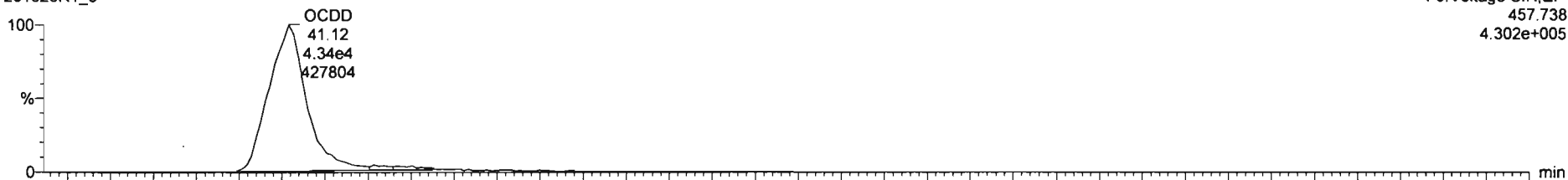
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OCDD

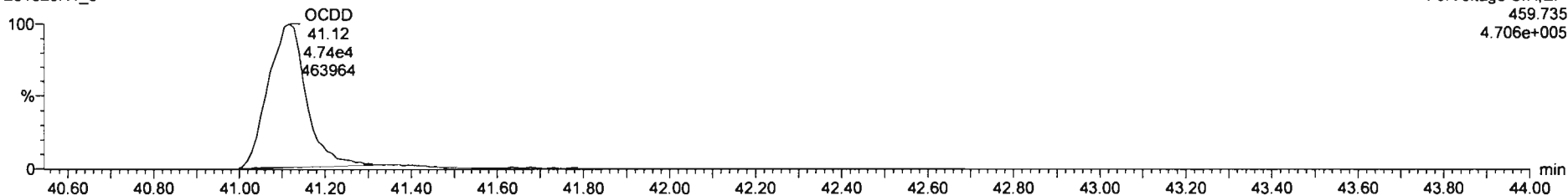
201020R1_3

F5:Voltage SIR, EI+
457.738
4.302e+005



201020R1_3

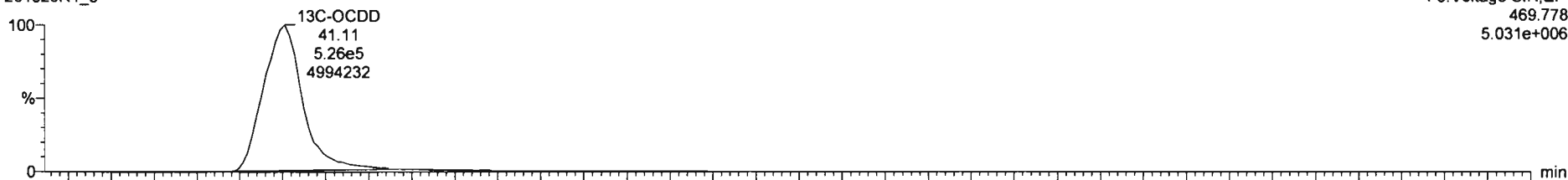
F5:Voltage SIR, EI+
459.735
4.706e+005



13C-OCDD

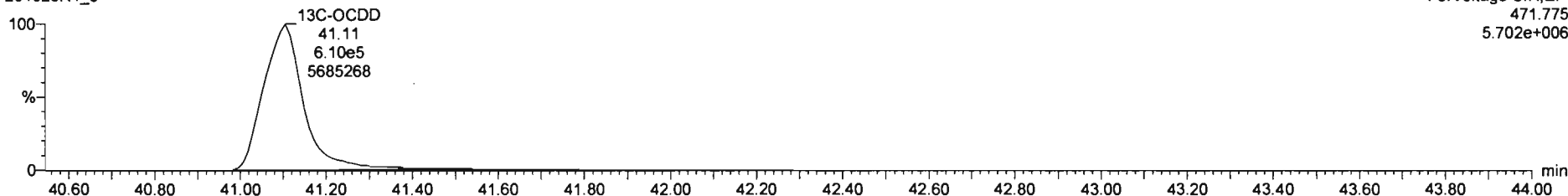
201020R1_3

F5:Voltage SIR, EI+
469.778
5.031e+006

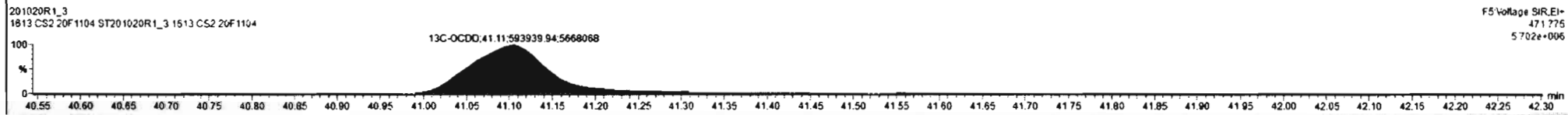
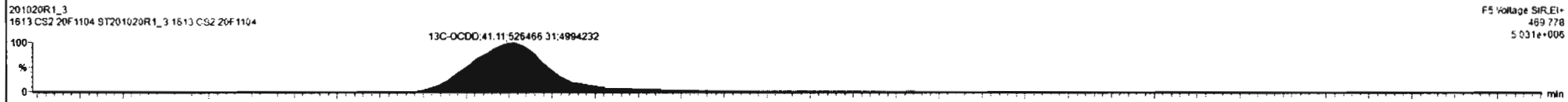


201020R1_3

F5:Voltage SIR, EI+
471.775
5.702e+006



#	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	7.8437e4	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	5.4834e4	6.6949e5	10.000	-6.2	11.7	0.870	0.102
7	OCDD	41.12	8.814	NO	9.8812e4	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



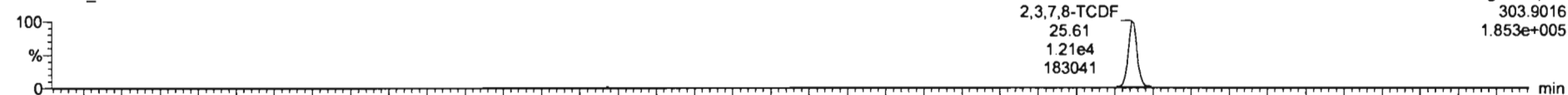
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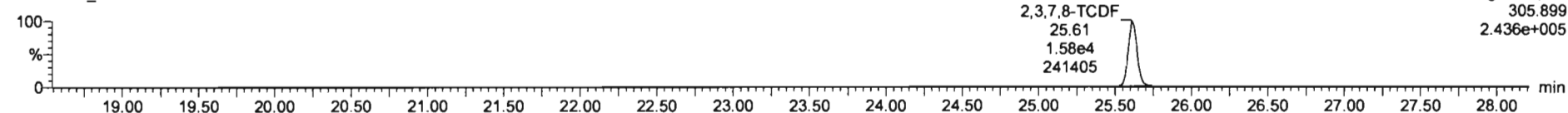
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2,3,7,8-TCDF

201020R1_3

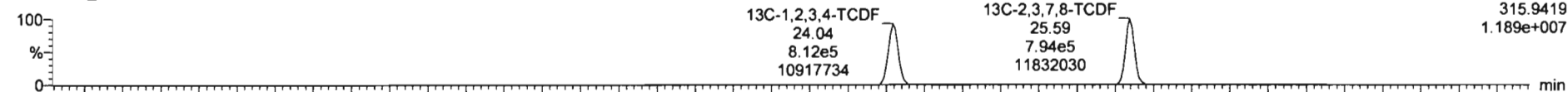


201020R1_3

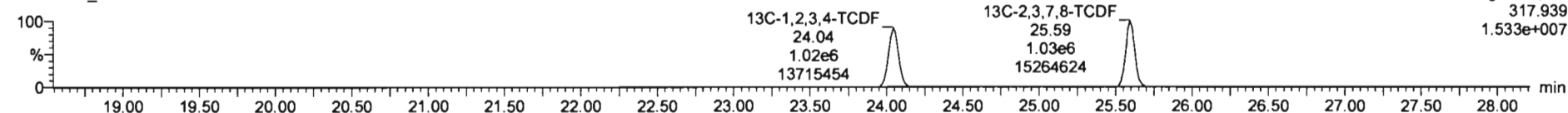


13C-2,3,7,8-TCDF

201020R1_3

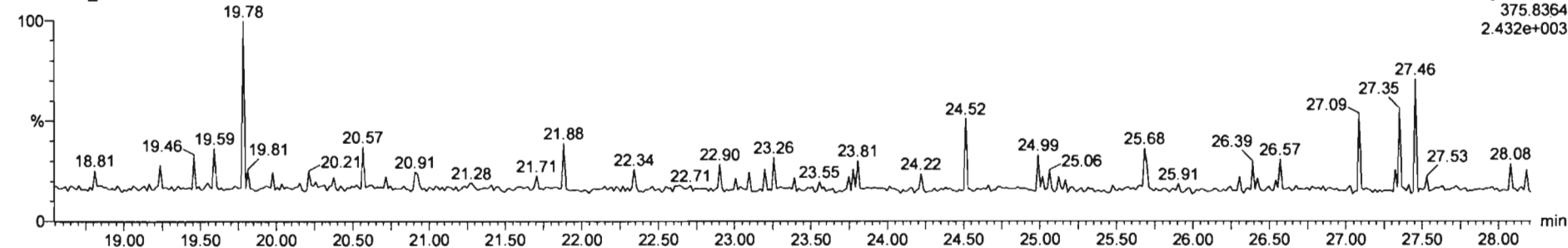


201020R1_3



DPE1

201020R1_3



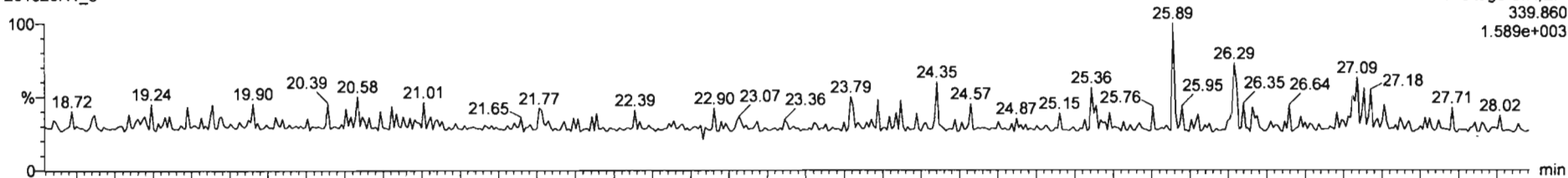
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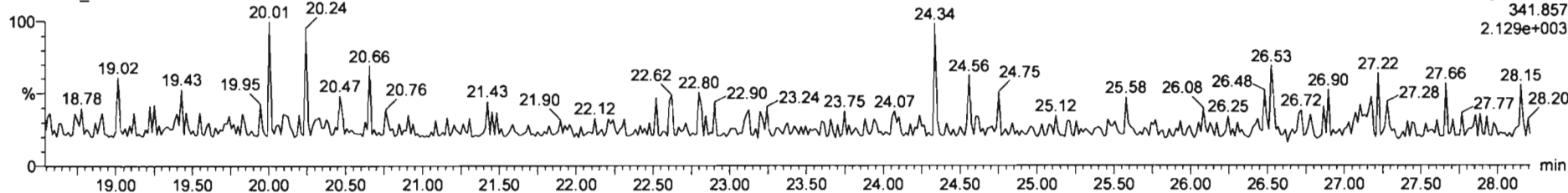
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1st Func. Penta-Furans

201020R1_3

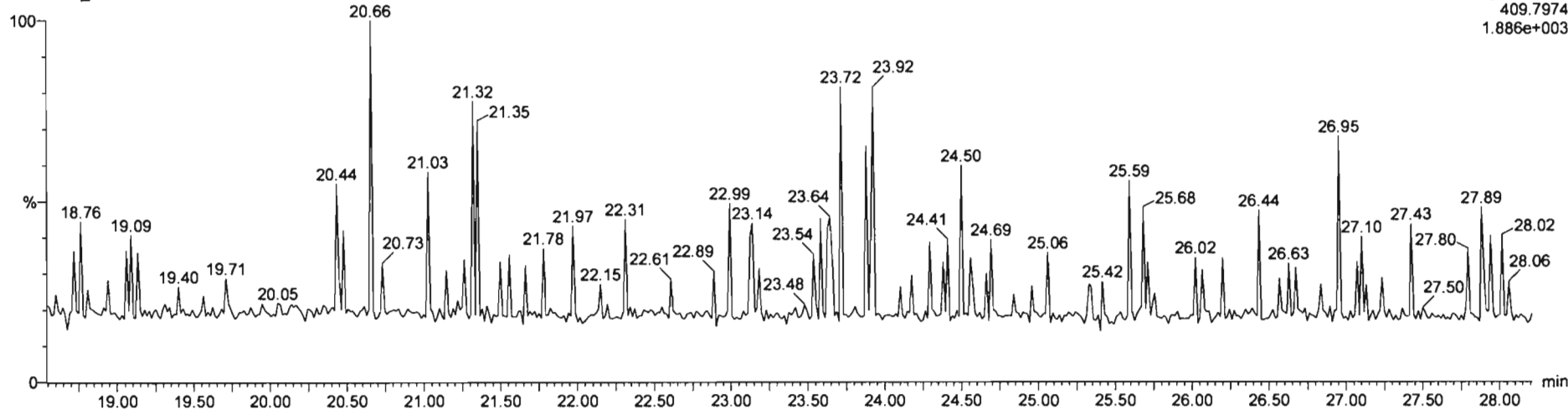


201020R1_3



DPE6

201020R1_3



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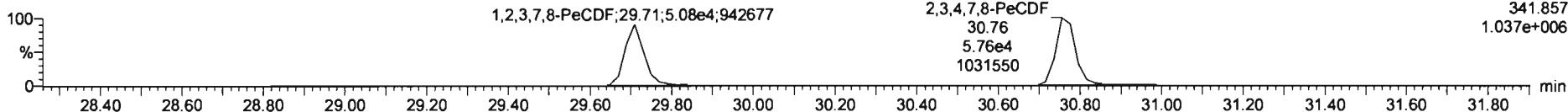
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1,2,3,7,8-PeCDF

201020R1_3

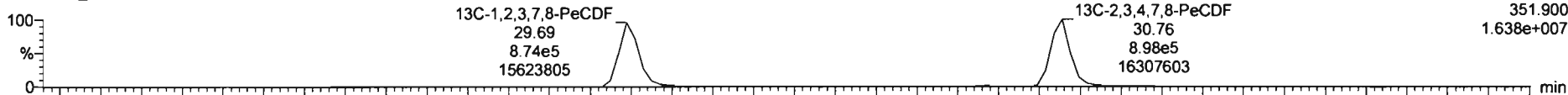


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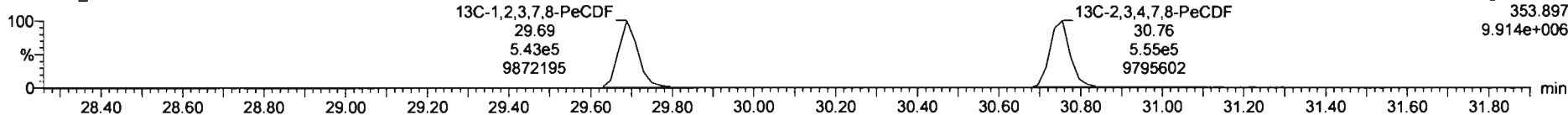


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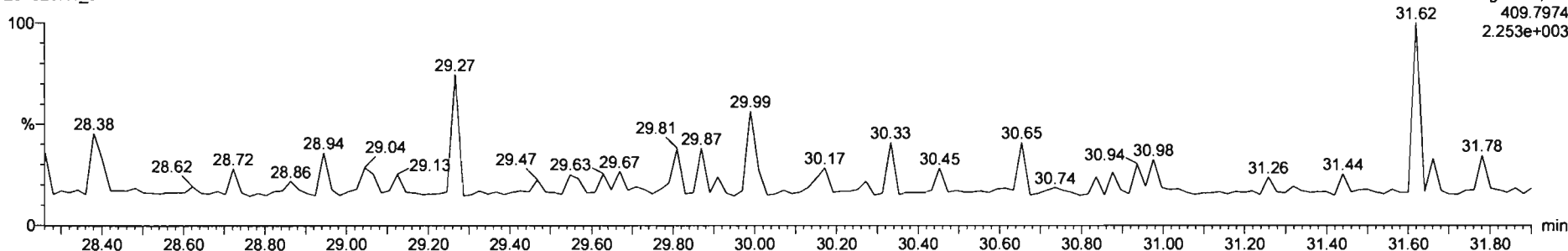


201020R1_3



DPE2

201020R1_3



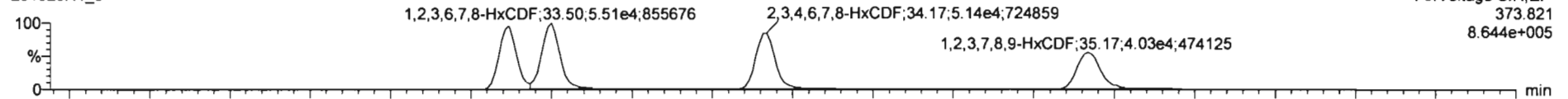
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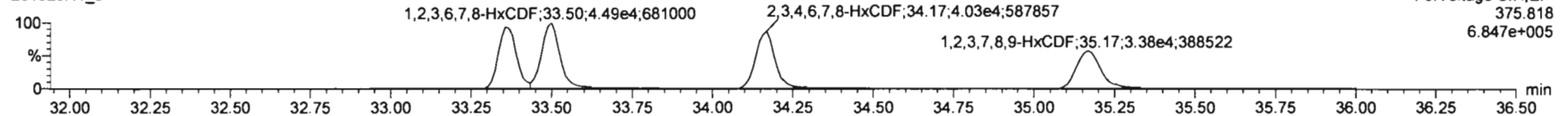
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1,2,3,4,7,8-HxCDF

201020R1_3

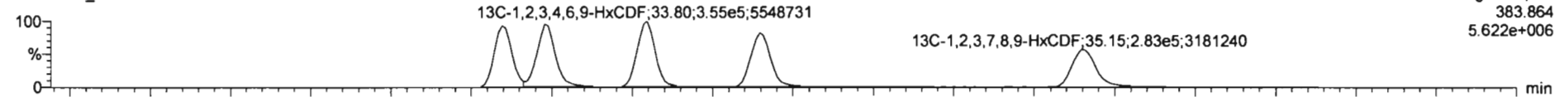


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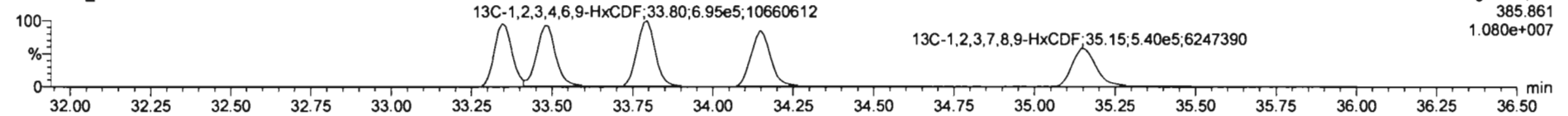


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201020R1_3

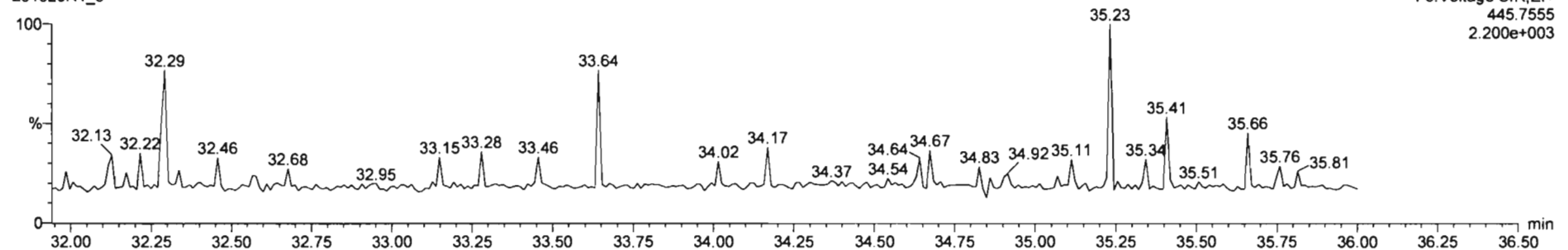


201020R1_3



DPE3

201020R1_3

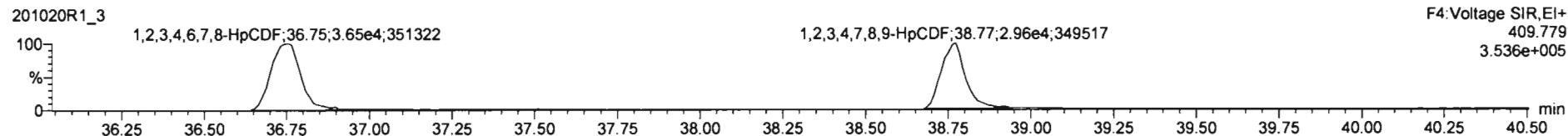
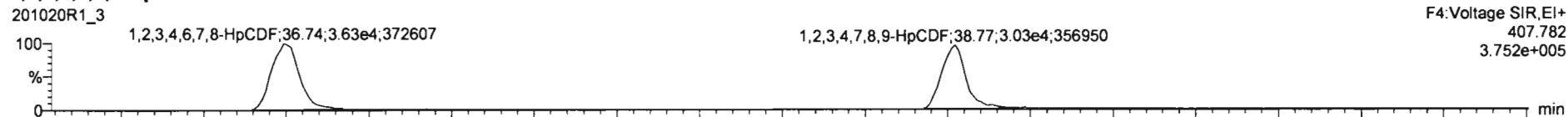


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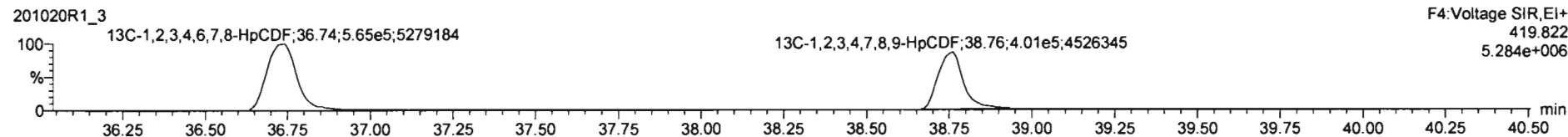
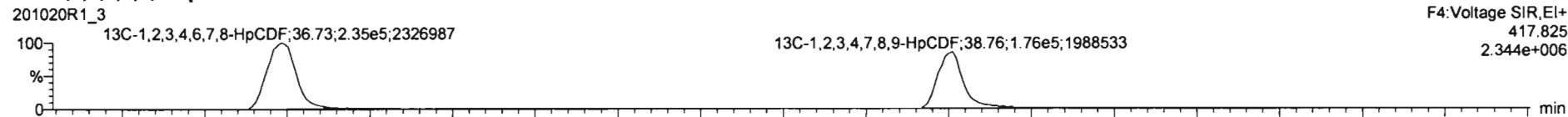
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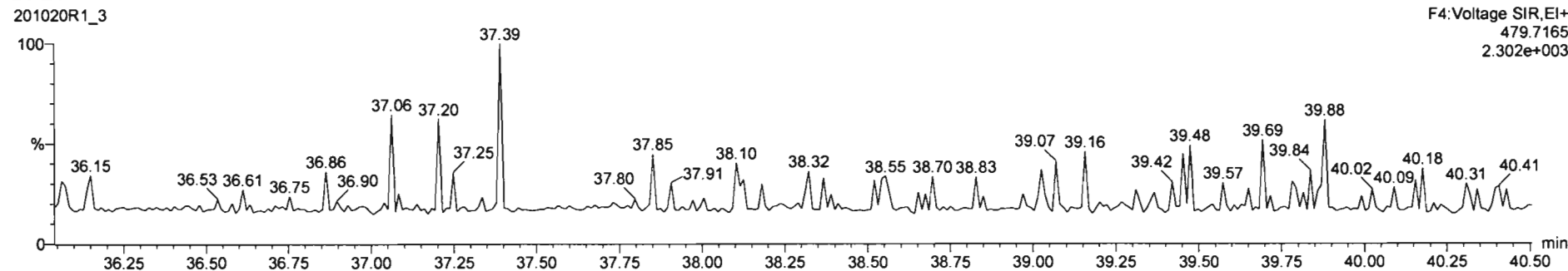
1,2,3,4,6,7,8-HpCDF



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



DPE4



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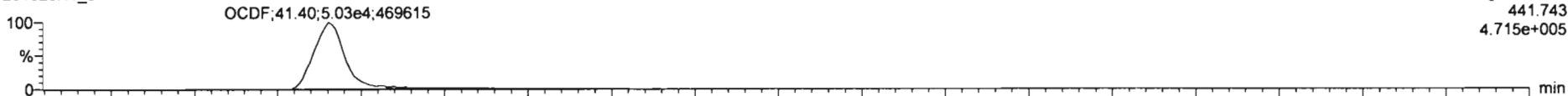
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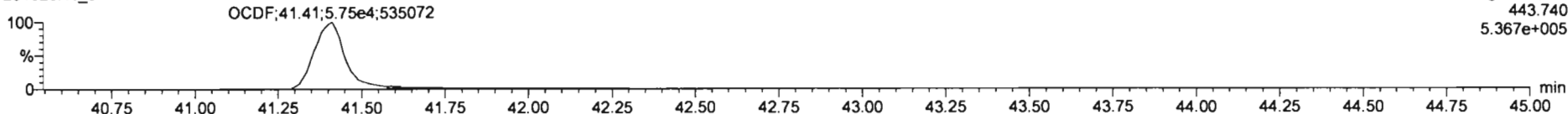
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OCDF

201020R1_3

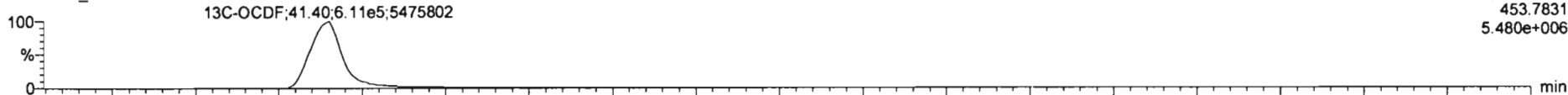


201020R1_3

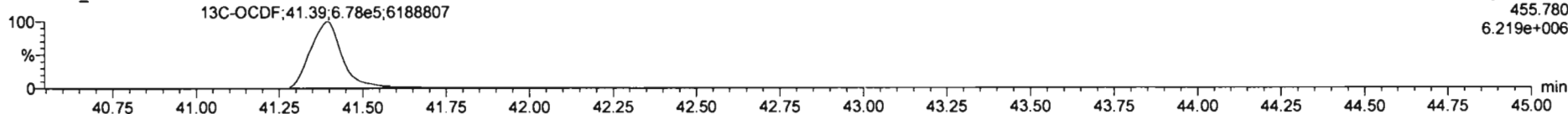


13C-OCDF

201020R1_3

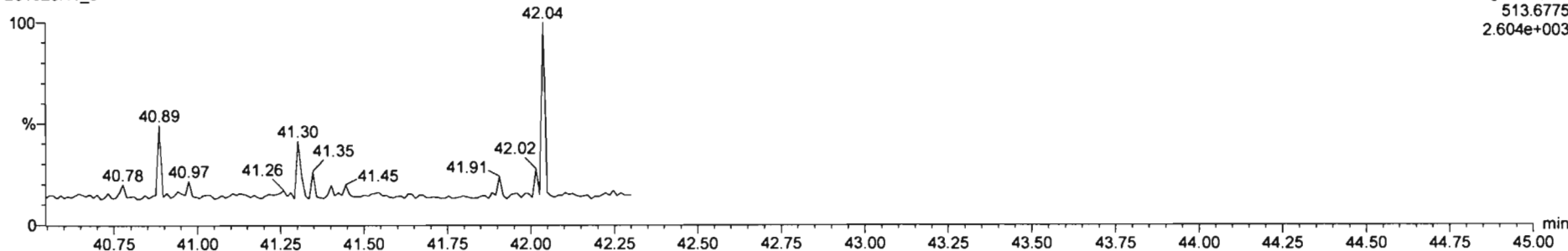


201020R1_3



DPE5

201020R1_3

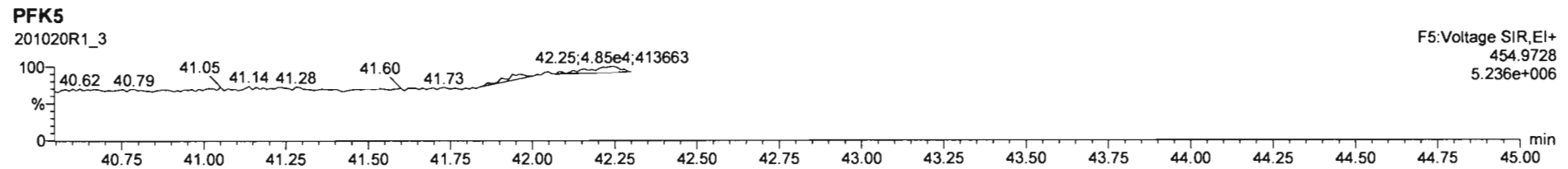
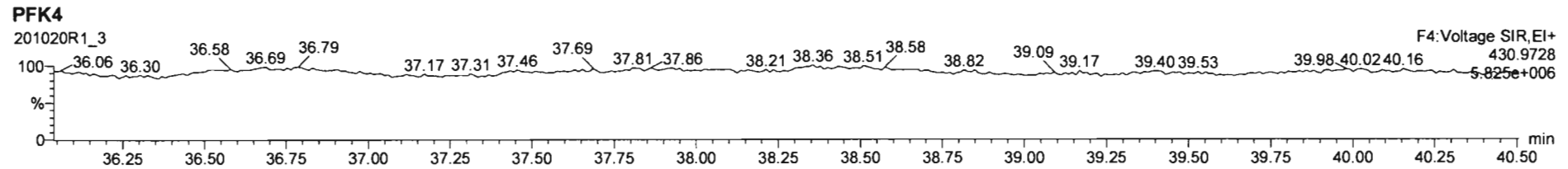
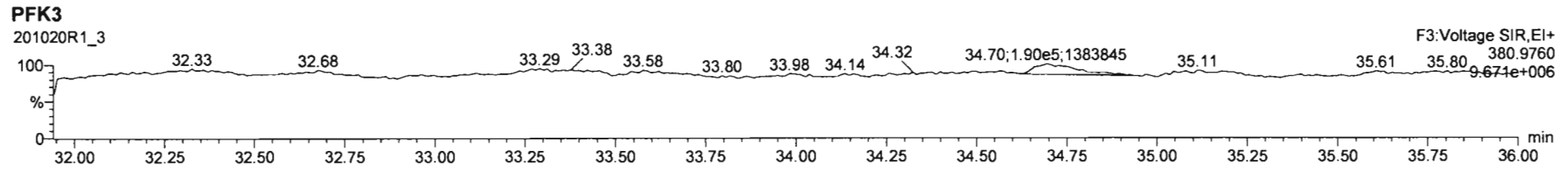
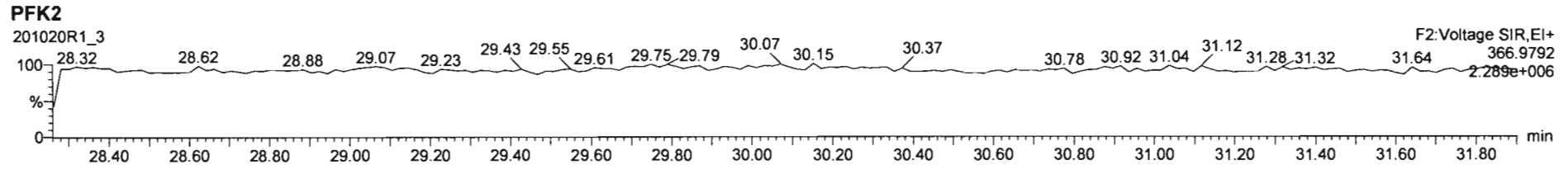
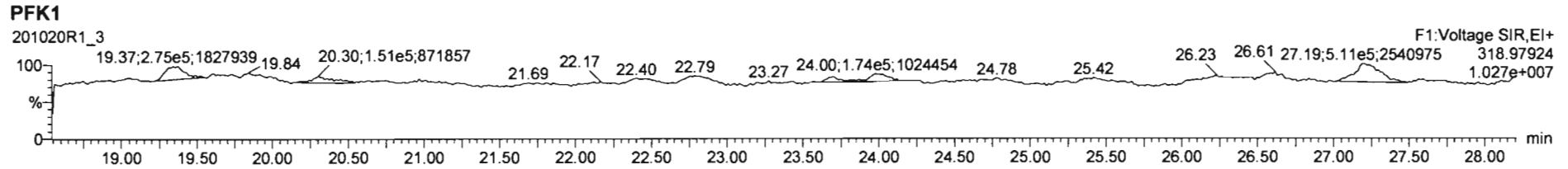


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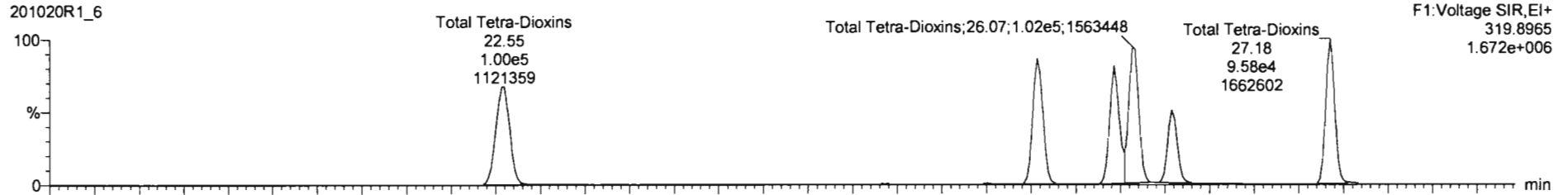
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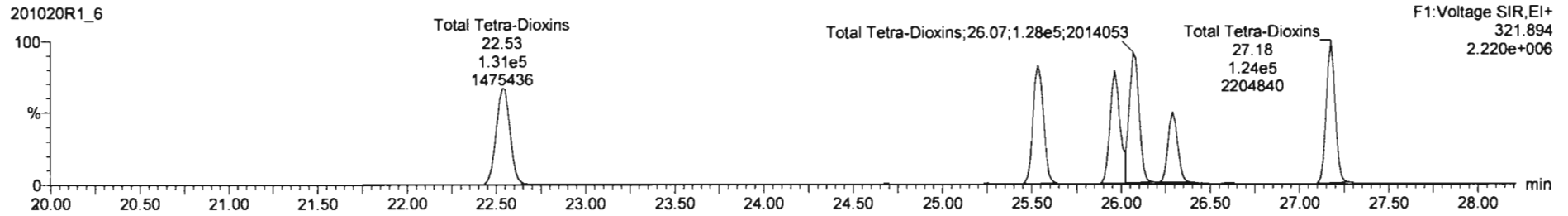
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2,3,7,8-TCDD

201020R1_6

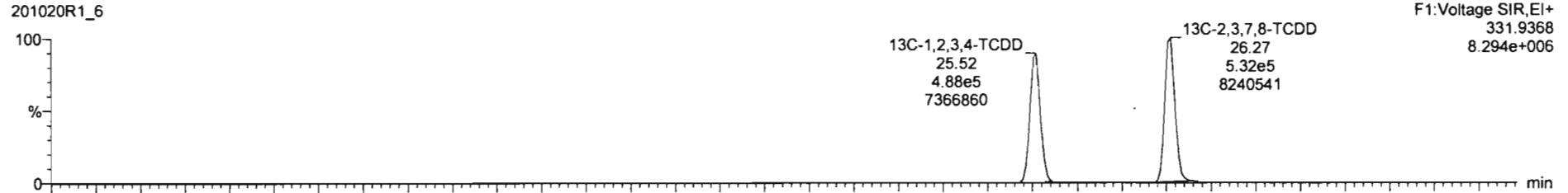


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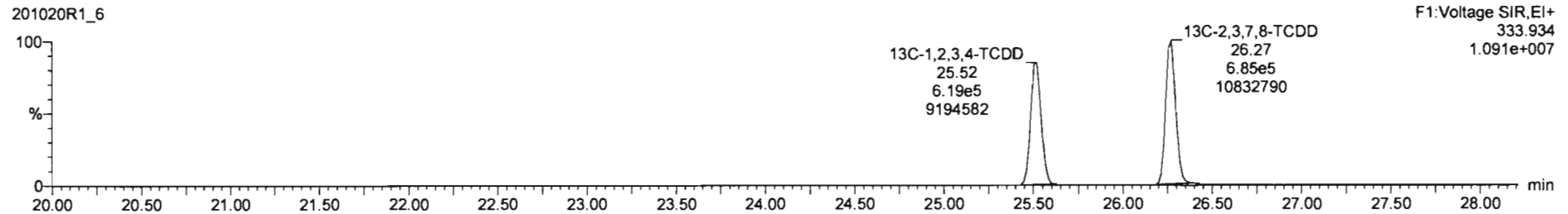


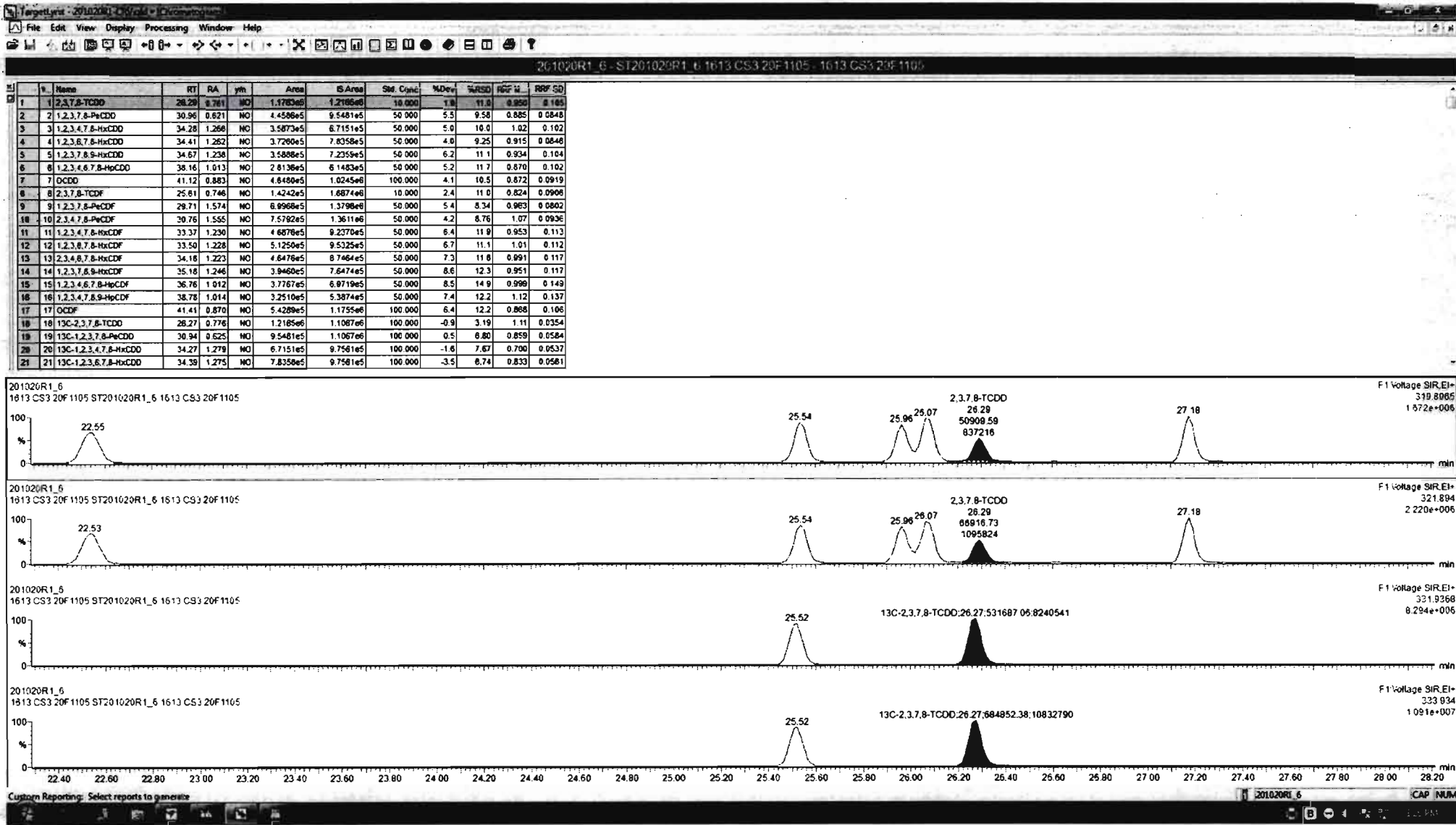
13C-2,3,7,8-TCDD

201020R1_6



201020R1_6





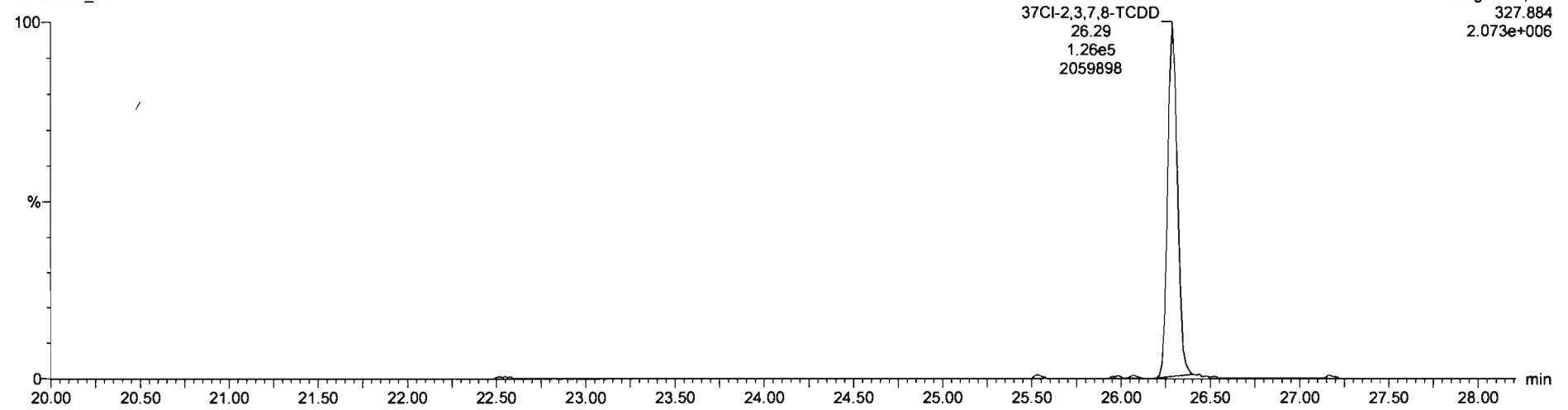
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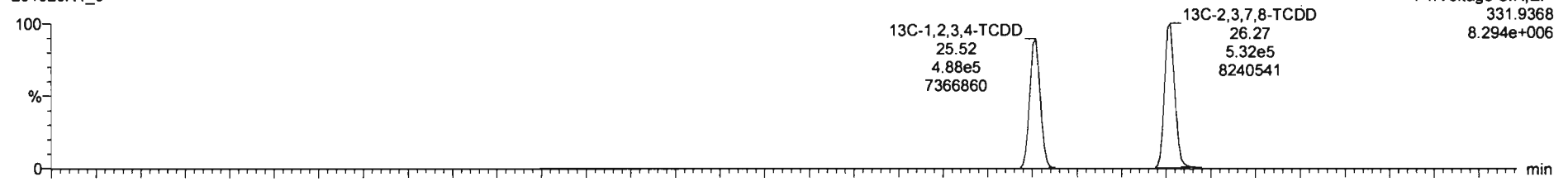
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201020R1_6

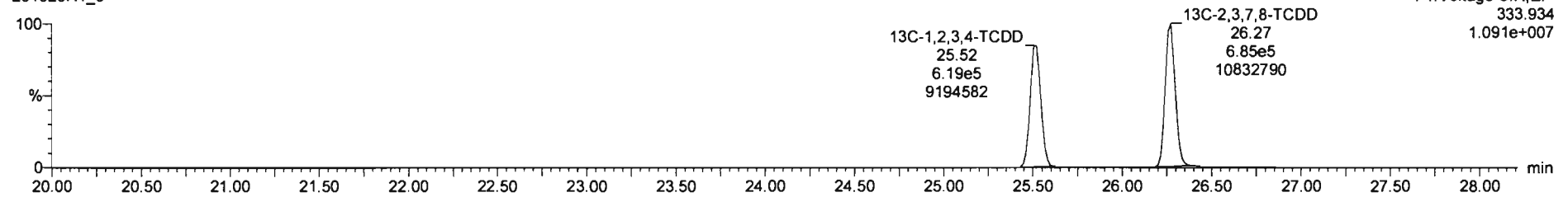


13C-1,2,3,4-TCDD

201020R1_6



201020R1_6



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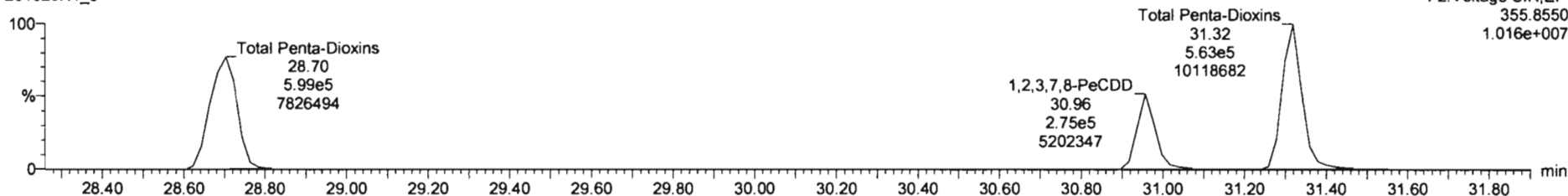
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1,2,3,7,8-PeCDD

201020R1_6

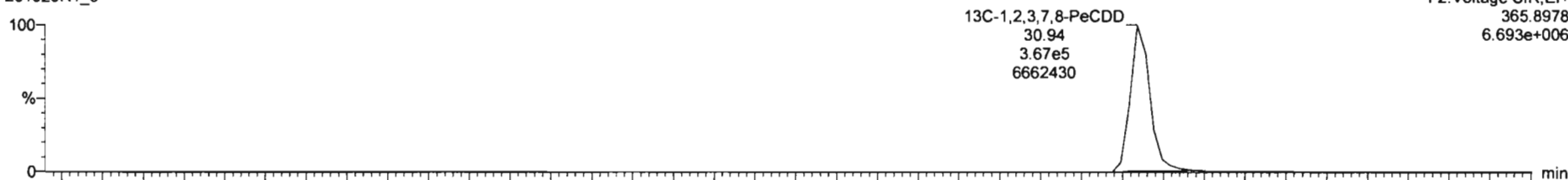


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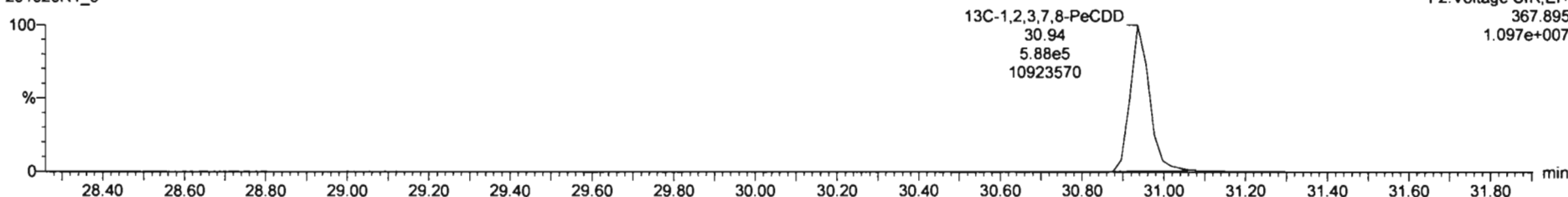


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201020R1_6



201020R1_6



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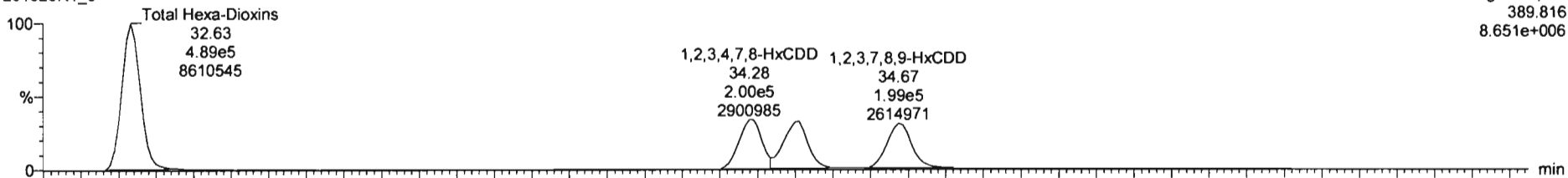
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1,2,3,4,7,8-HxCDD

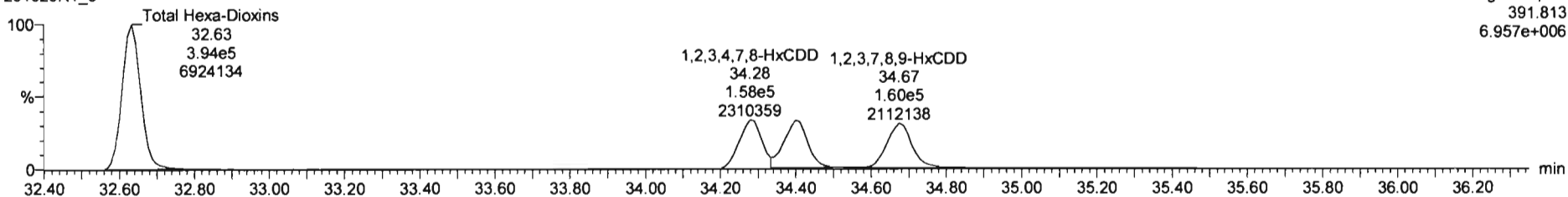
201020R1_6

F3:Voltage SIR,EI+
389.816
8.651e+006



201020R1_6

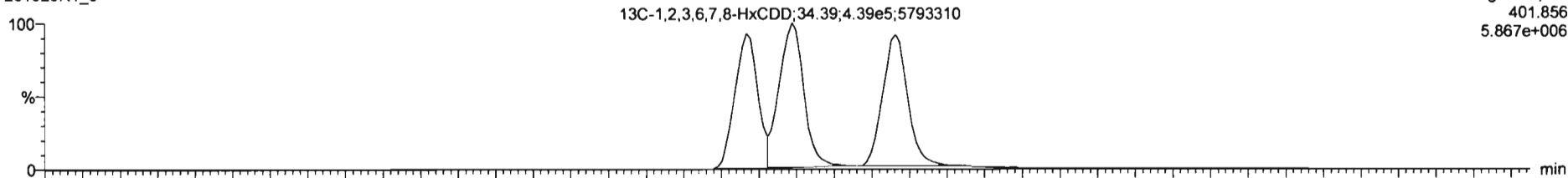
F3:Voltage SIR,EI+
391.813
6.957e+006



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

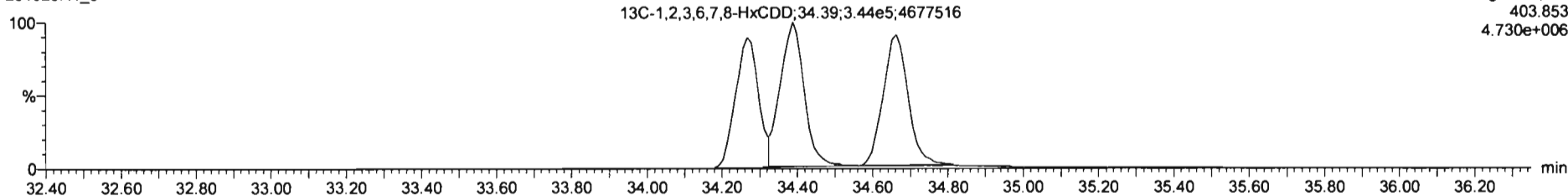
201020R1_6

F3:Voltage SIR,EI+
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5.867e+006



201020R1_6

F3:Voltage SIR,EI+
403.853
4.730e+006



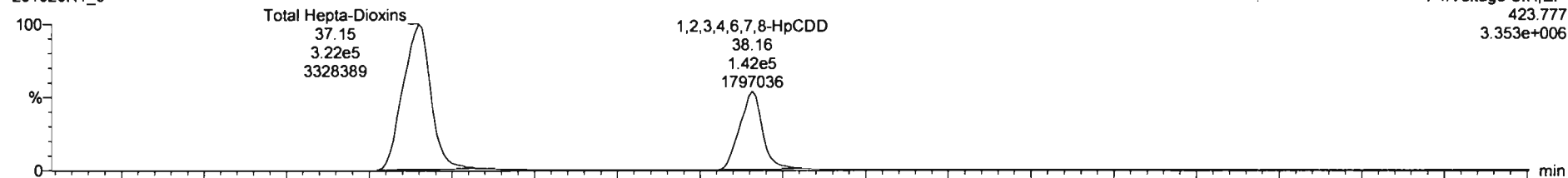
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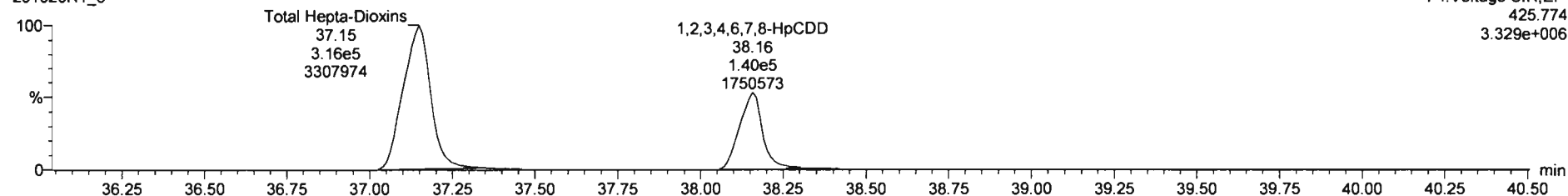
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1,2,3,4,6,7,8-HpCDD

201020R1_6

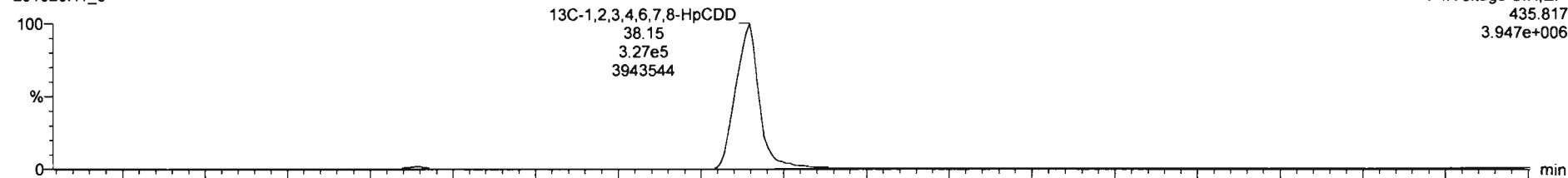


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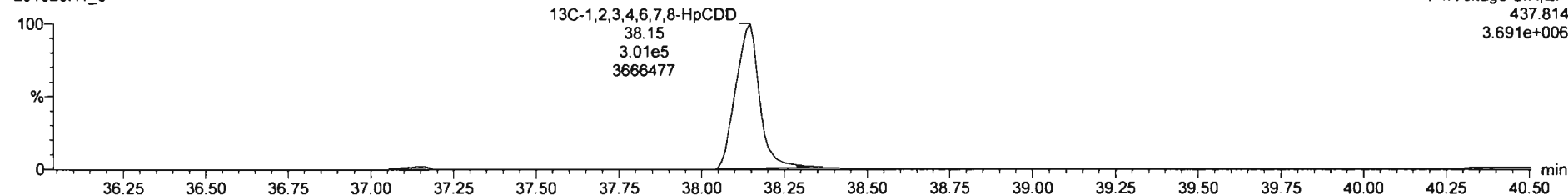


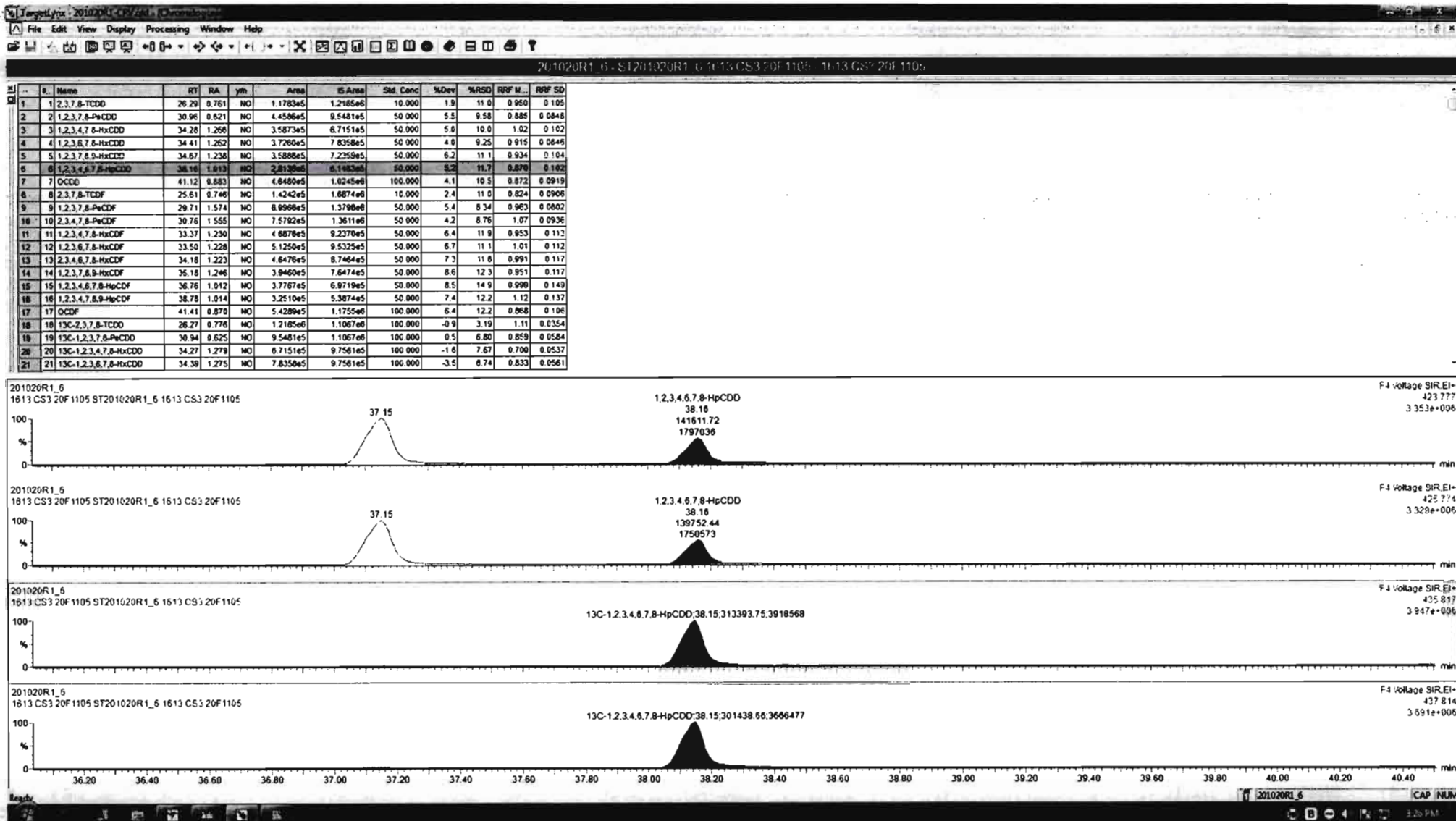
13C-1,2,3,4,6,7,8-HpCDD

201020R1_6



201020R1_6

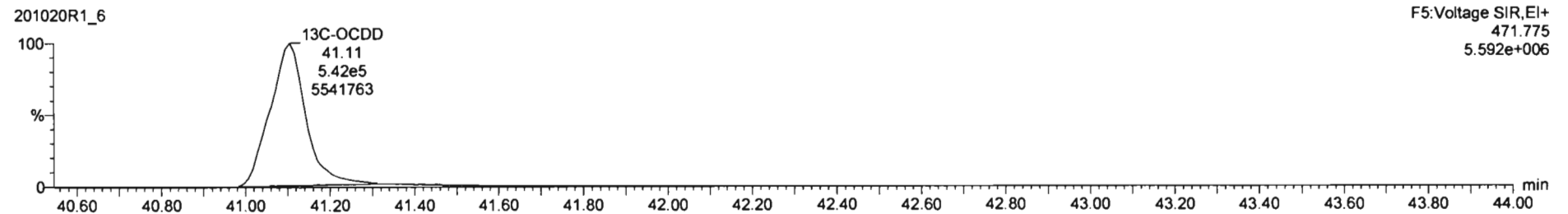
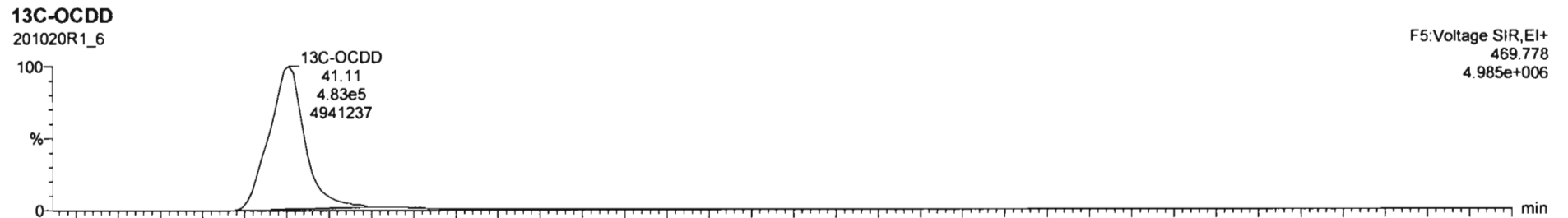
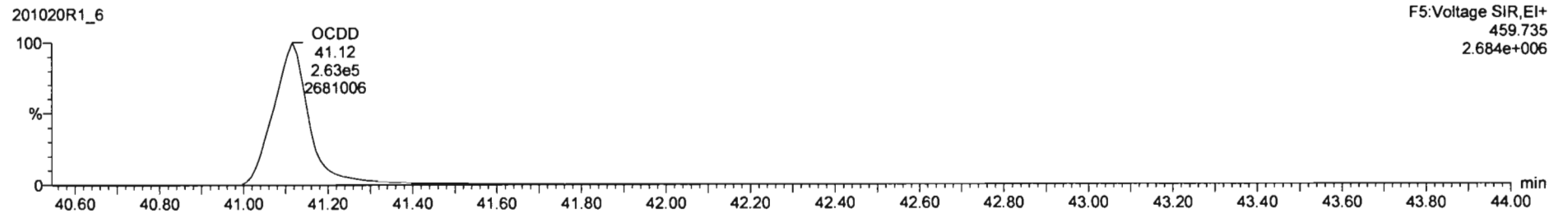
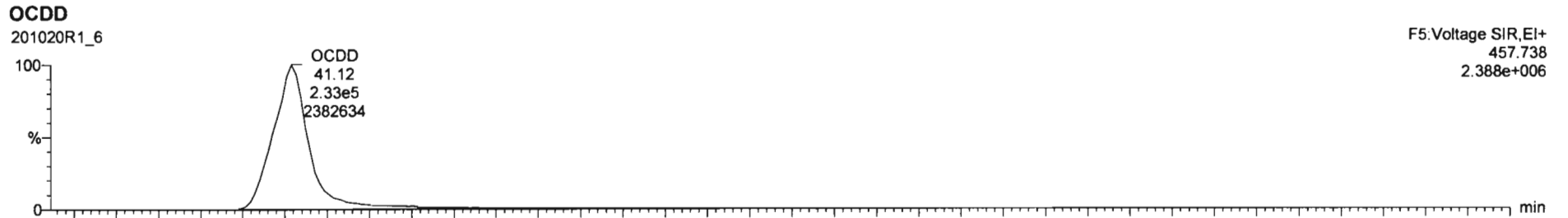




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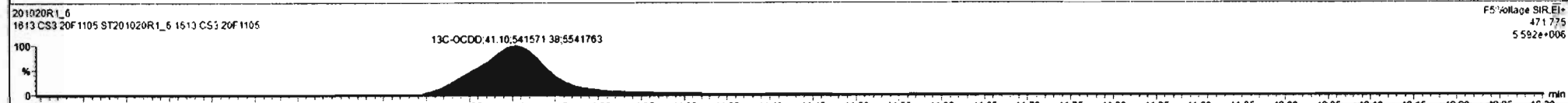
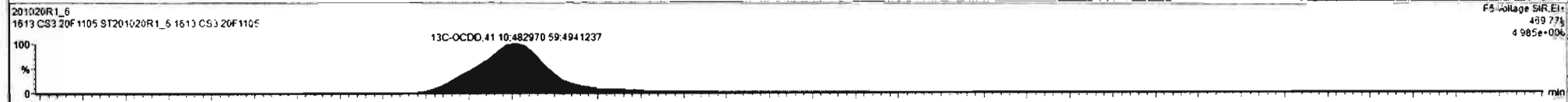
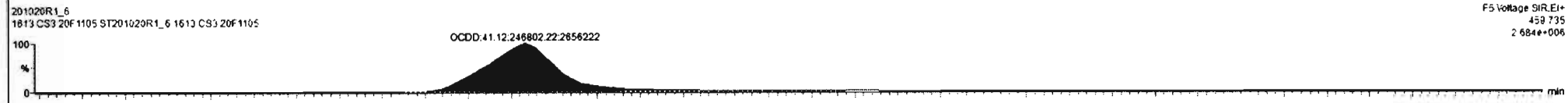
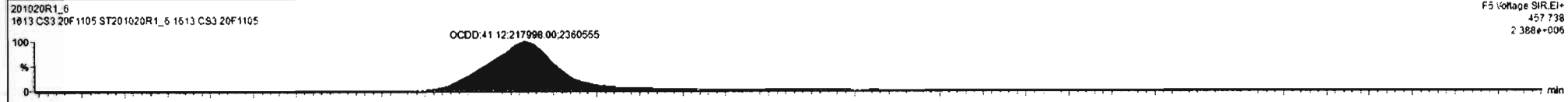
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201020R1_6 - ST201020R1_6 1613 CS3 20F 1105 - 1613 CS3 20F 1105

#	Name	RT	RA	Y/N	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	2,3,7,8-TCDD	26.29	0.761	NO	1.1783e5	1.2165e6	10.000	1.9	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.821	NO	4.4598e5	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	8.7151e5	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	0.0846
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	1.013	NO	2.8136e5	6.1483e5	50.000	5.2	11.7	0.870	0.102
7	OCDD	41.12	0.823	NO	4.6482e5	1.8235e6	100.000	4.1	18.8	0.872	0.0919
8	2,3,7,8-TCDF	25.81	0.746	NO	1.4242e5	1.6874e6	10.000	2.4	11.0	0.824	0.0908
9	1,2,3,7,8-PeCDF	29.71	1.574	NO	6.9968e5	1.3796e6	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	8.4	11.9	0.953	0.113
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	4.6478e5	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	3.8460e5	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	0.998	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	0.868	0.106
18	13C-2,3,7,8-TCDD	28.27	0.776	NO	1.2185e6	1.1087e6	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	1.1087e6	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	9.7581e5	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	9.7581e5	100.000	-3.5	6.74	0.833	0.0561



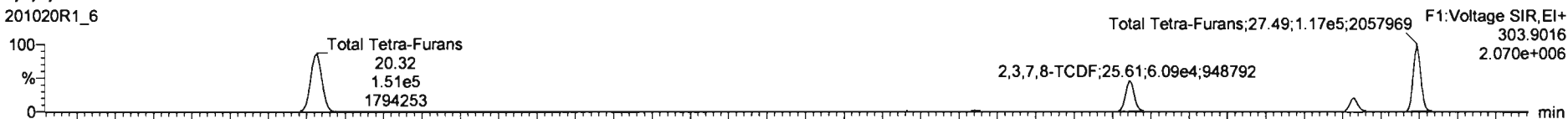
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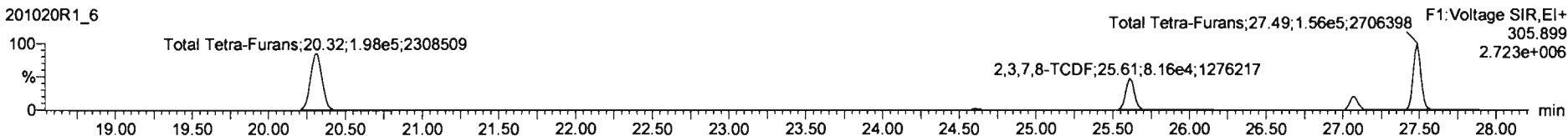
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2,3,7,8-TCDF

201020R1_6

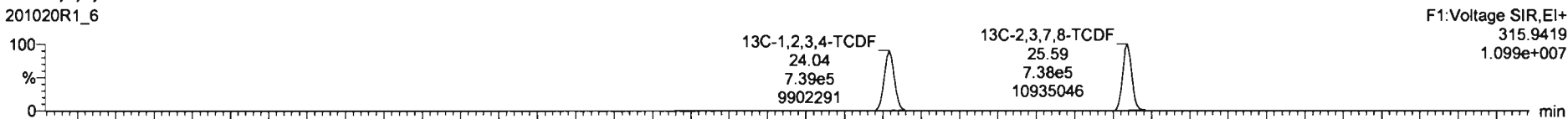


201020R1_6

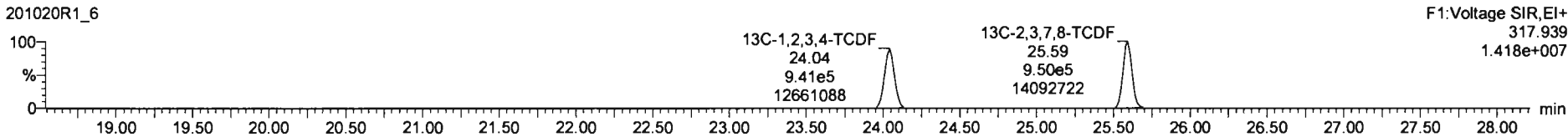


13C-2,3,7,8-TCDF

201020R1_6

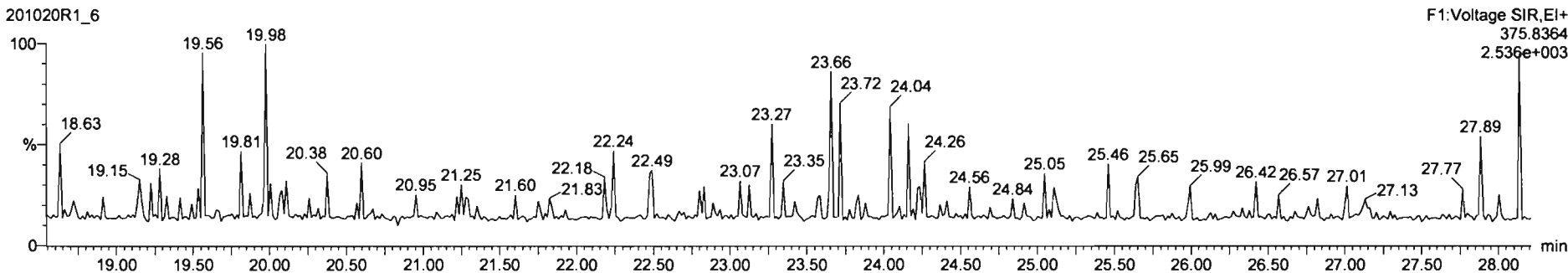


201020R1_6



DPE1

201020R1_6



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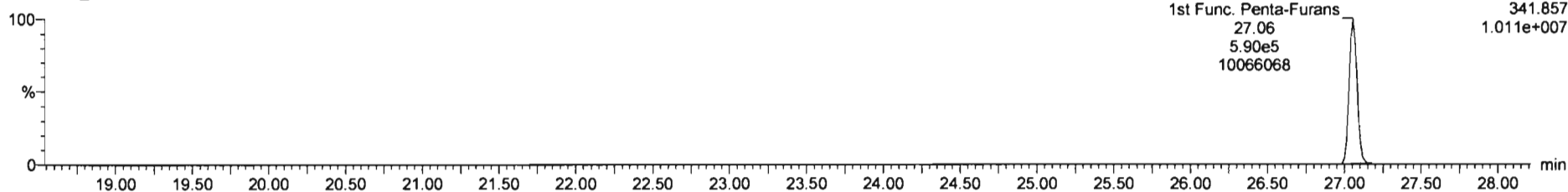
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201020R1_6

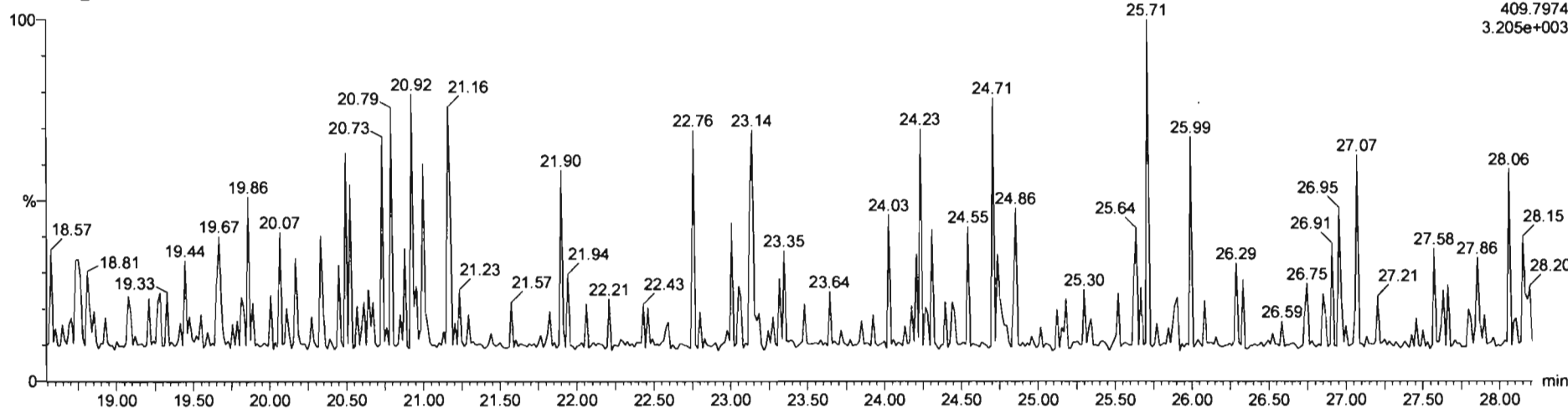


201020R1_6



DPE6

201020R1_6



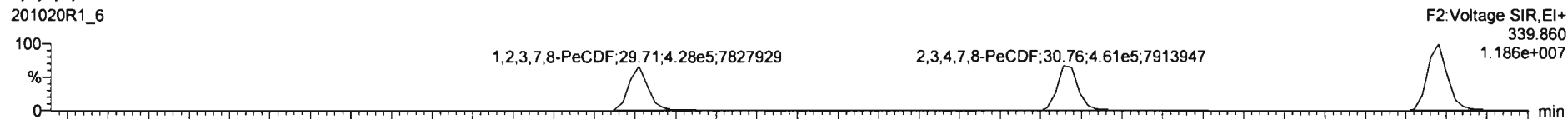
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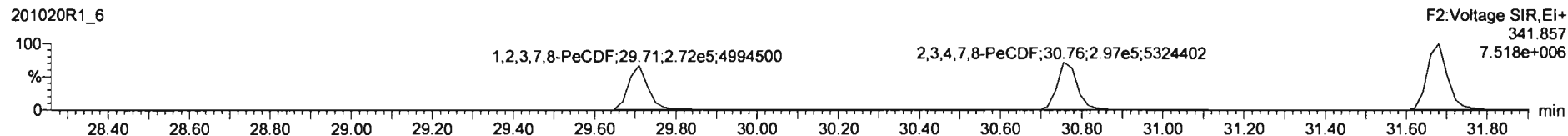
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1,2,3,7,8-PeCDF

201020R1_6

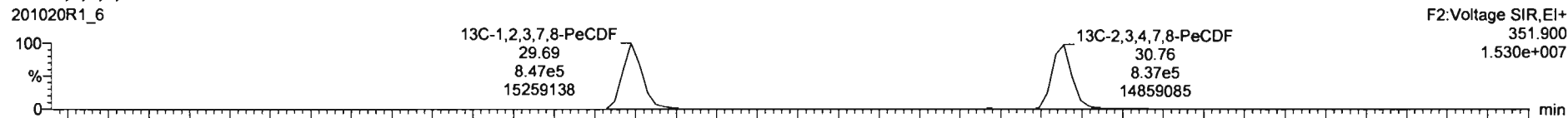


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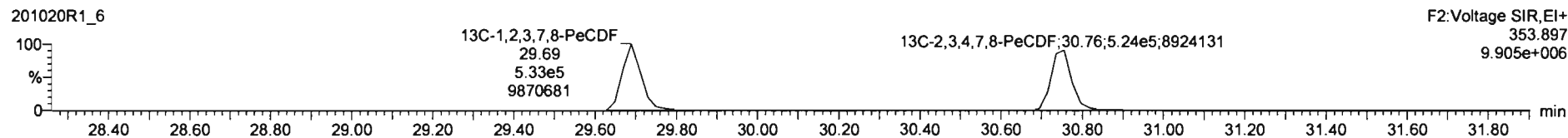


13C-1,2,3,7,8-PeCDF

201020R1_6

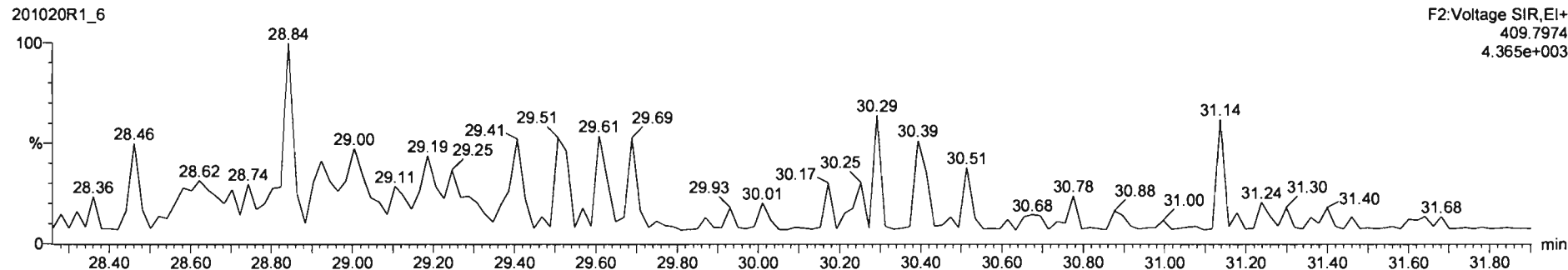


201020R1_6



DPE2

201020R1_6

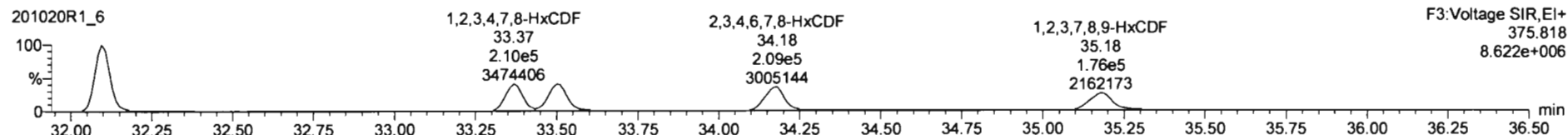
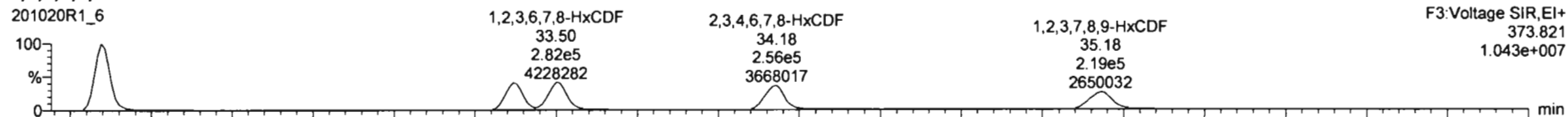


Dataset: Untitled

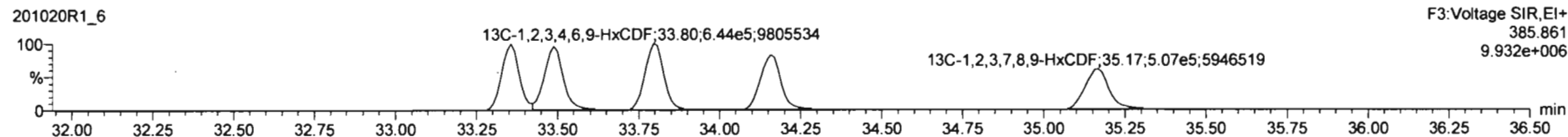
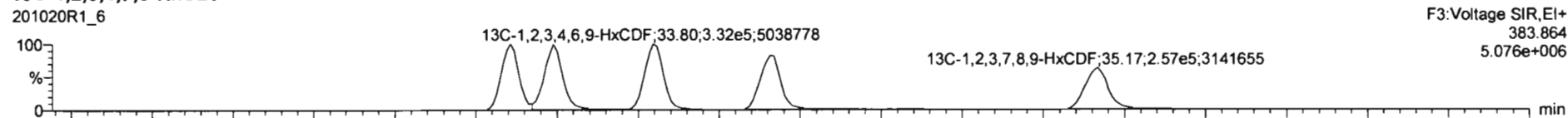
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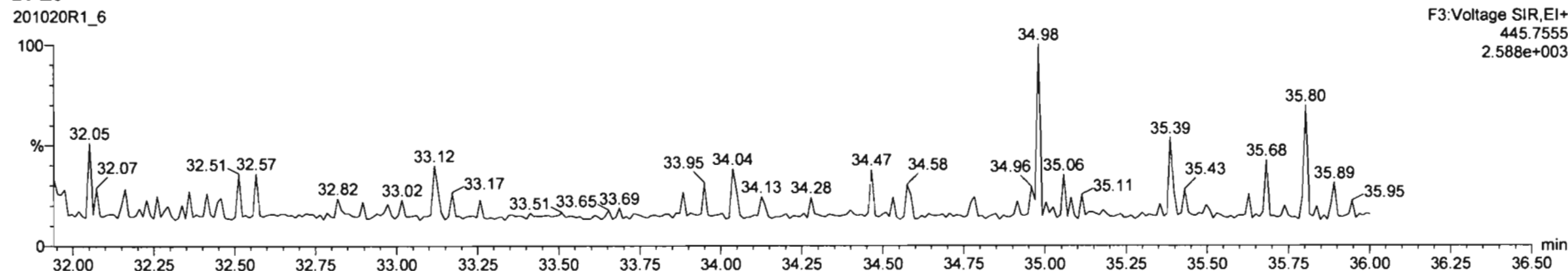
1,2,3,4,7,8-HxCDF



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



DPE3

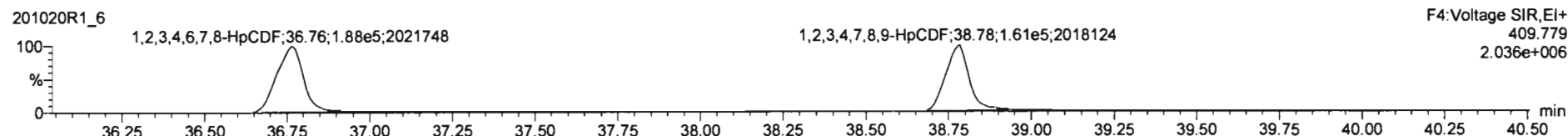
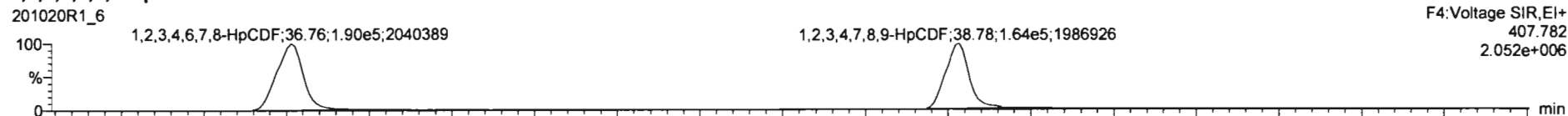


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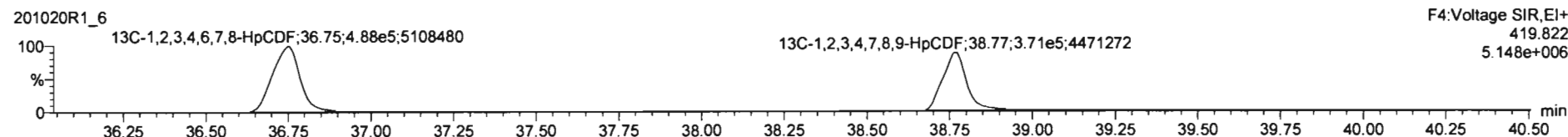
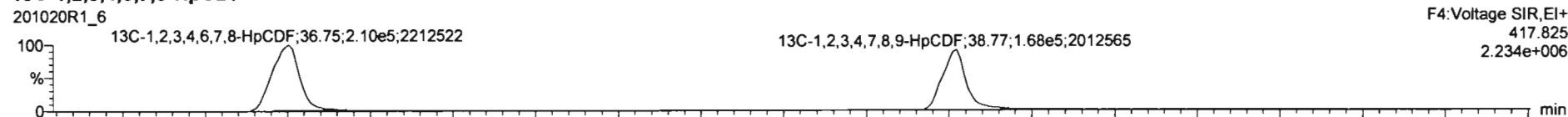
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

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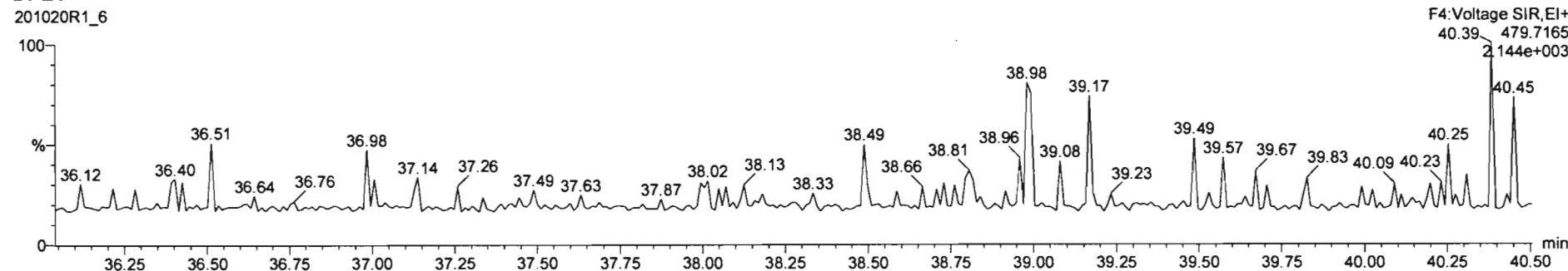
1,2,3,4,6,7,8-HpCDF



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



DPE4



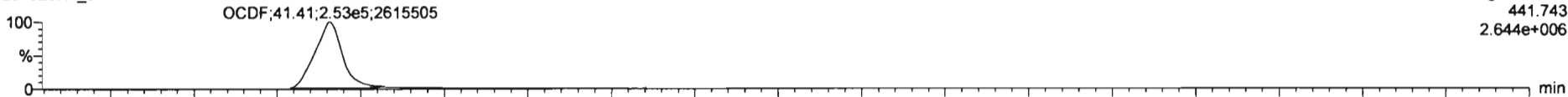
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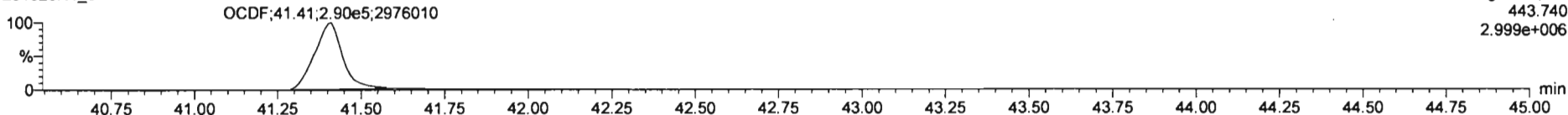
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OCDF

201020R1_6

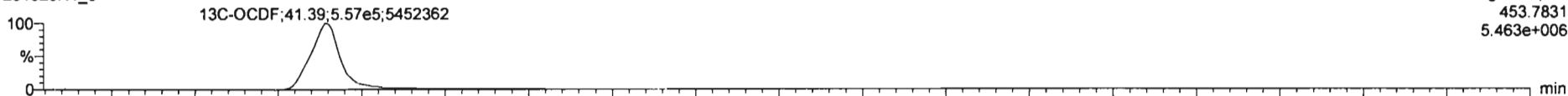


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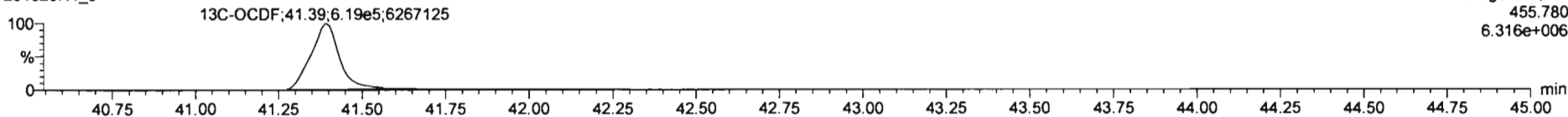


13C-OCDF

201020R1_6

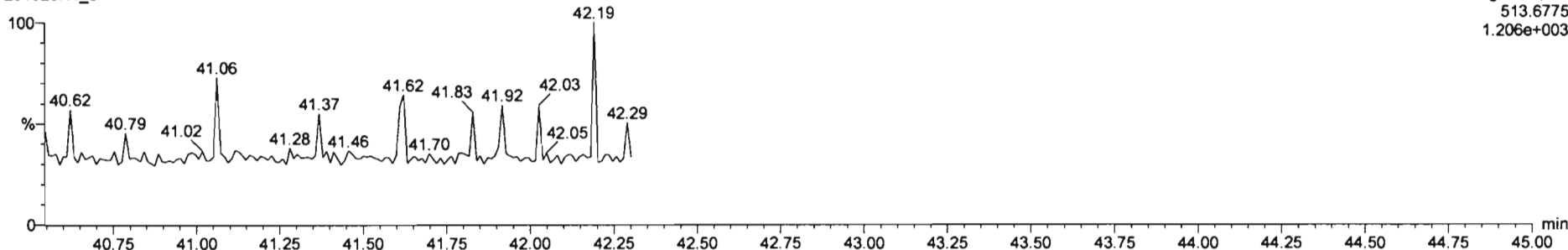


201020R1_6



DPE5

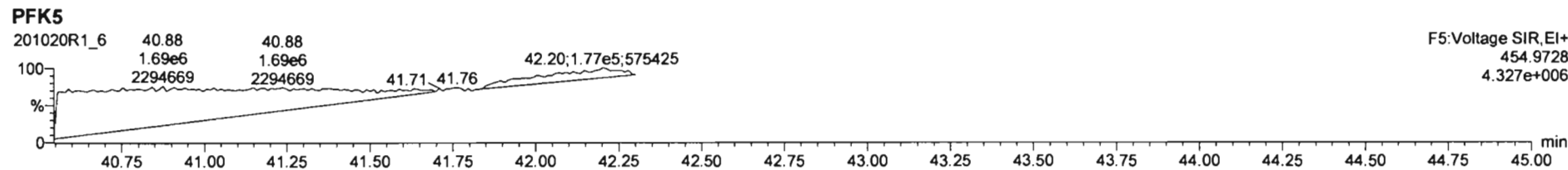
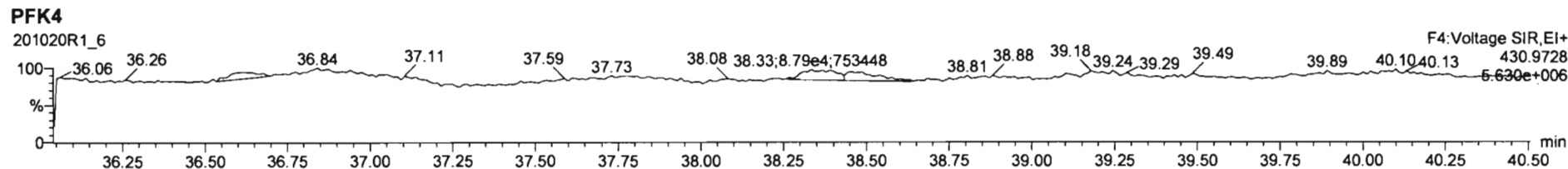
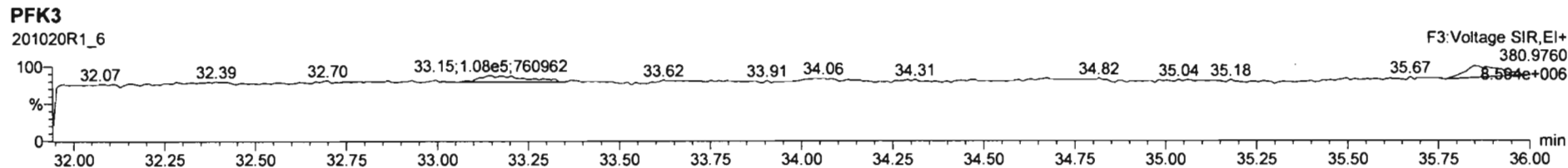
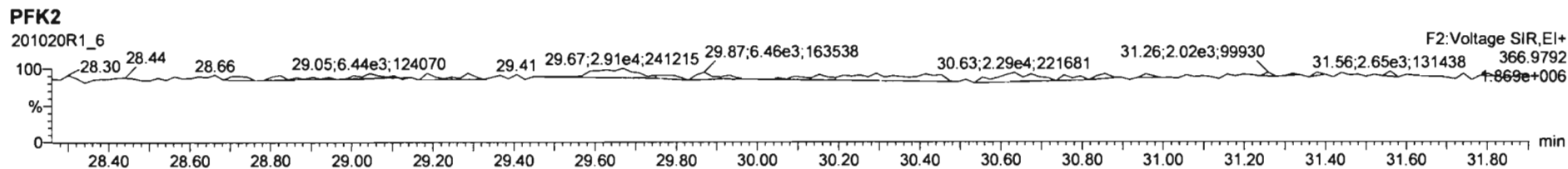
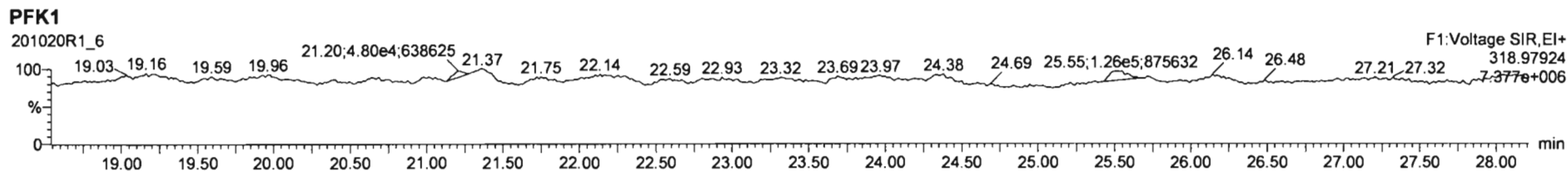
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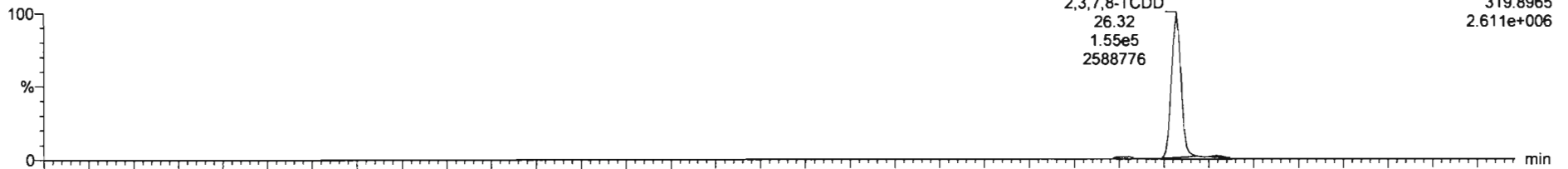
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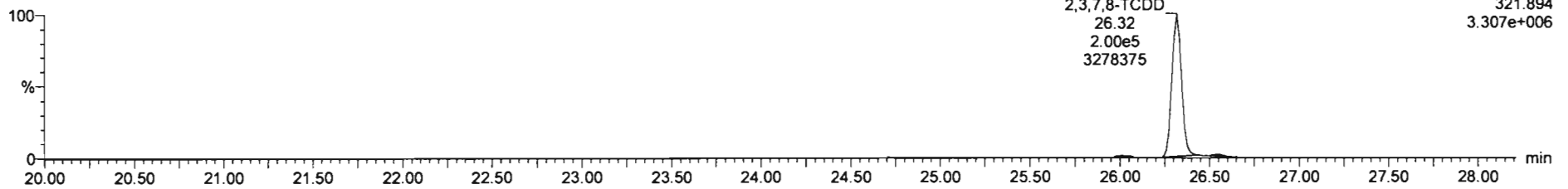
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2,3,7,8-TCDD

201020R1_4

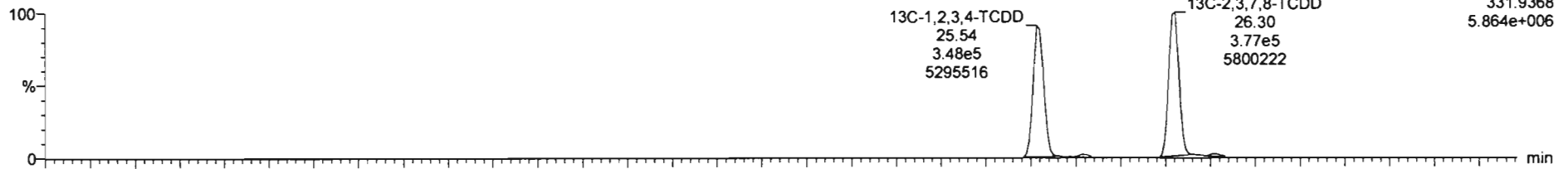


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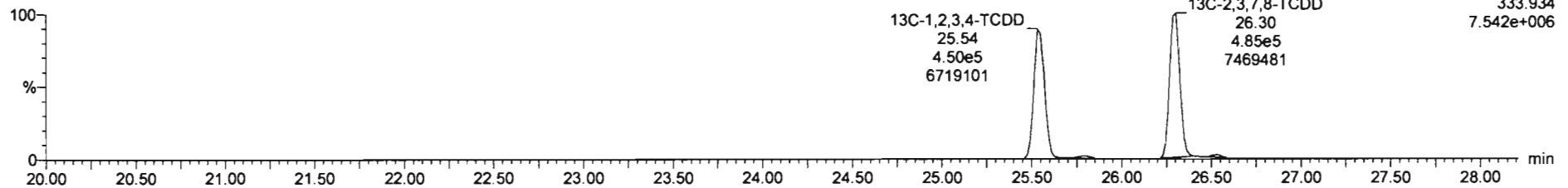


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201020R1_4



201020R1_4



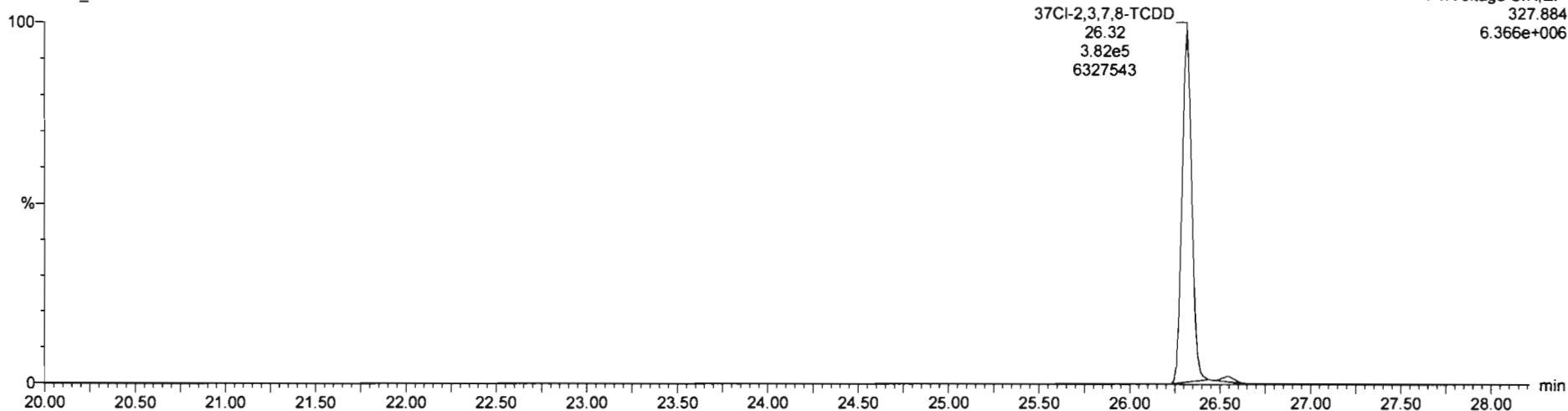
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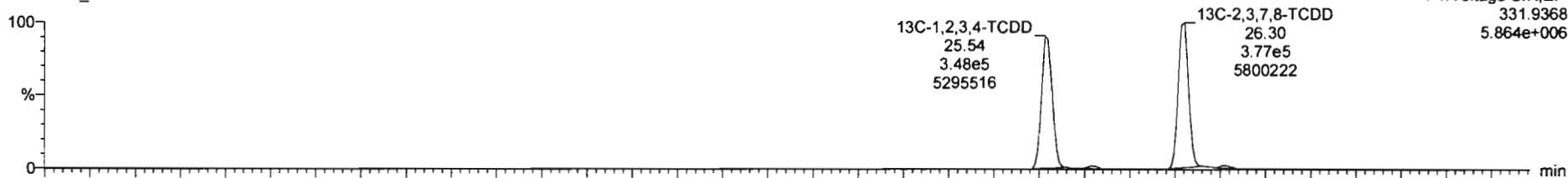
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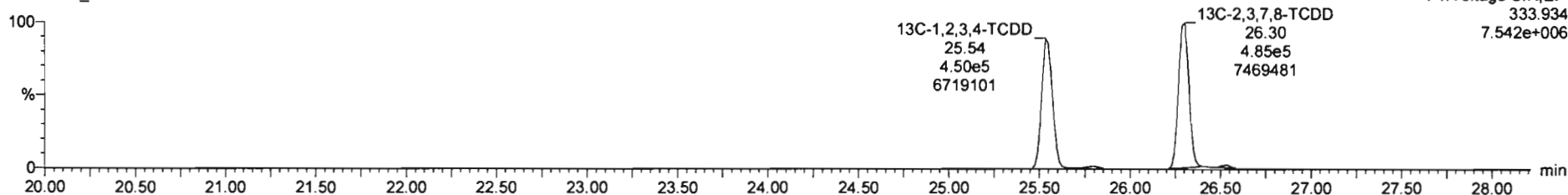


13C-1,2,3,4-TCDD

201020R1_4



201020R1_4



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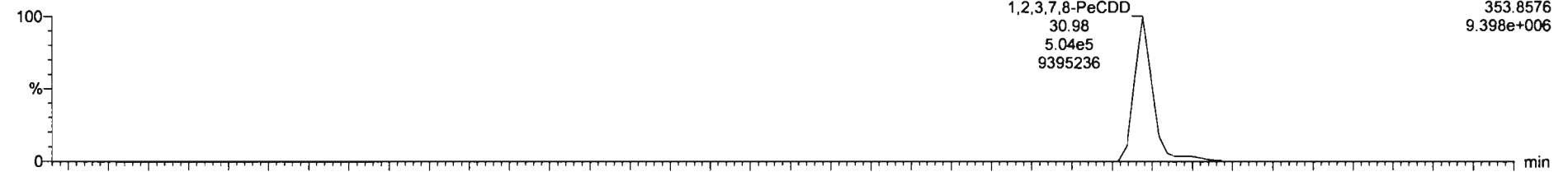
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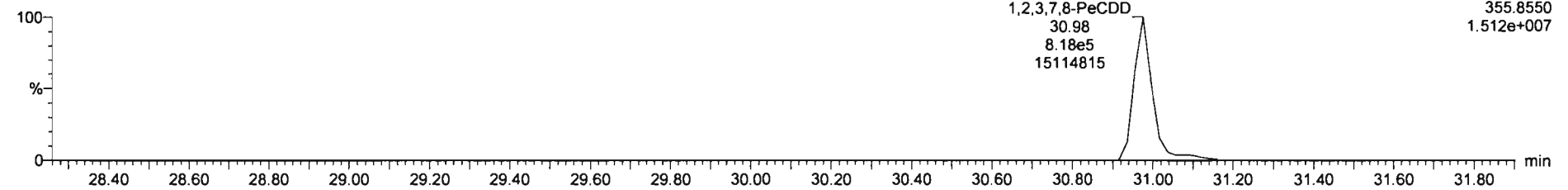
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1,2,3,7,8-PeCDD

201020R1_4

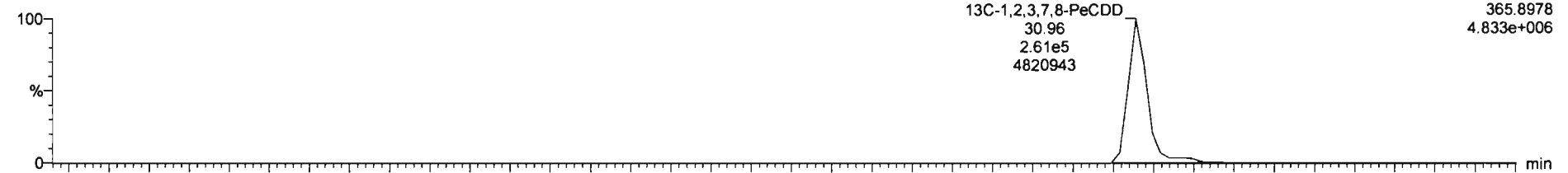


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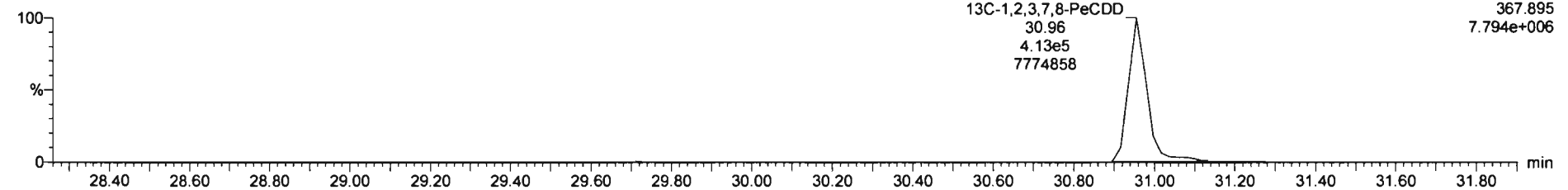


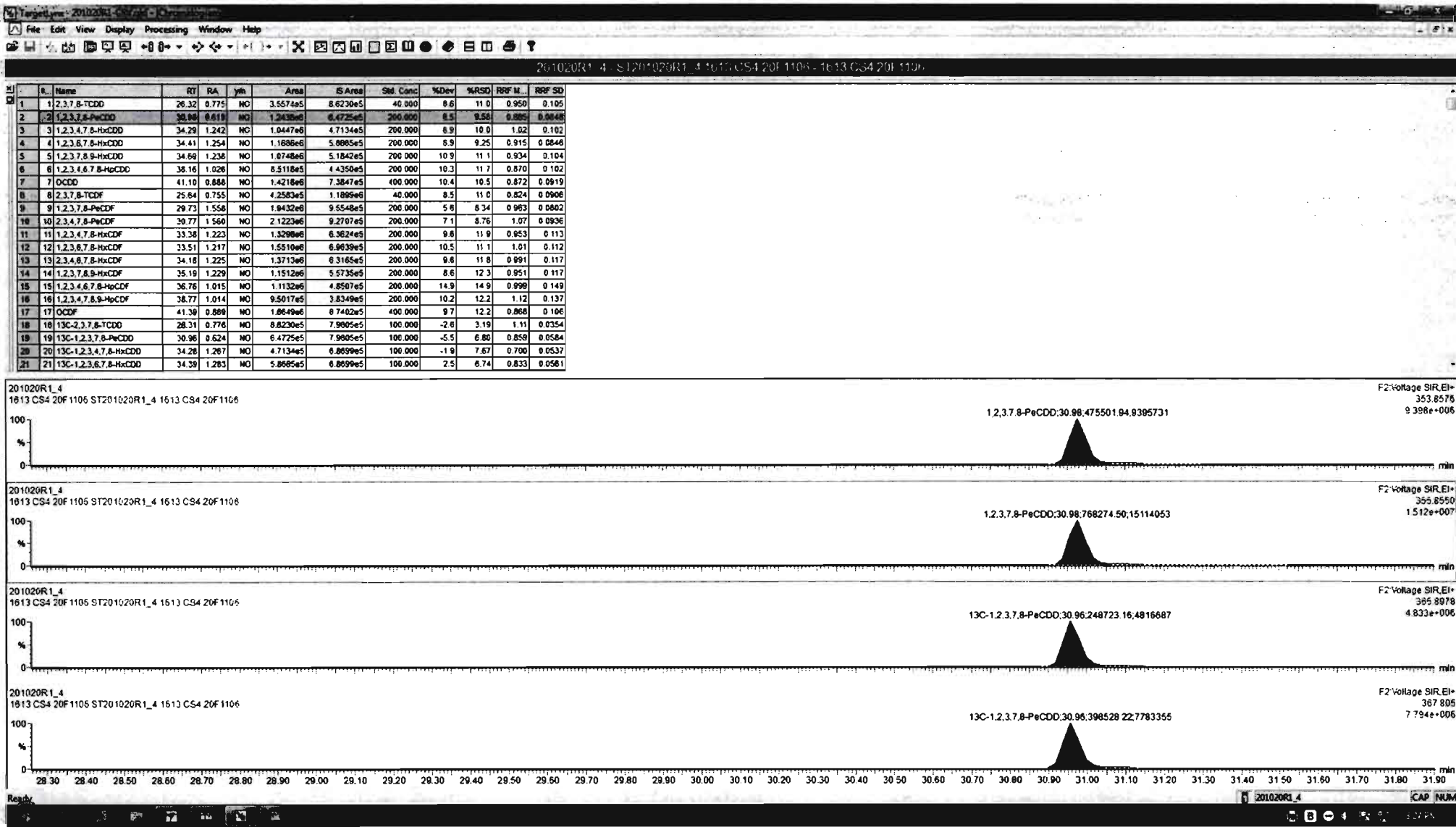
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201020R1_4



201020R1_4





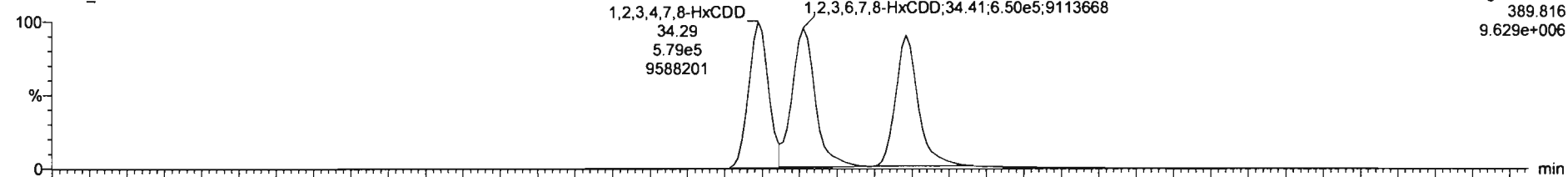
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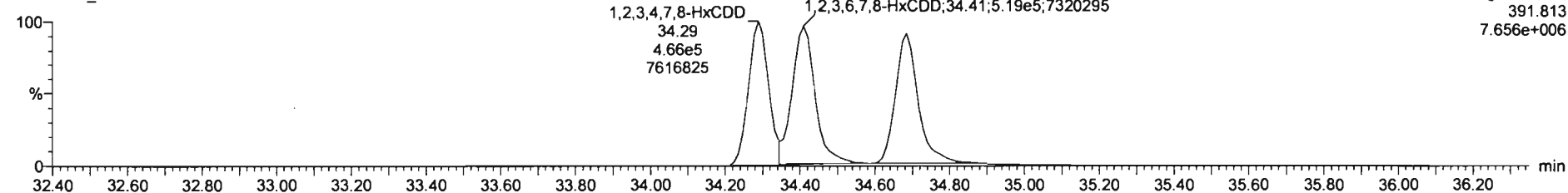
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1,2,3,4,7,8-HxCDD

201020R1_4

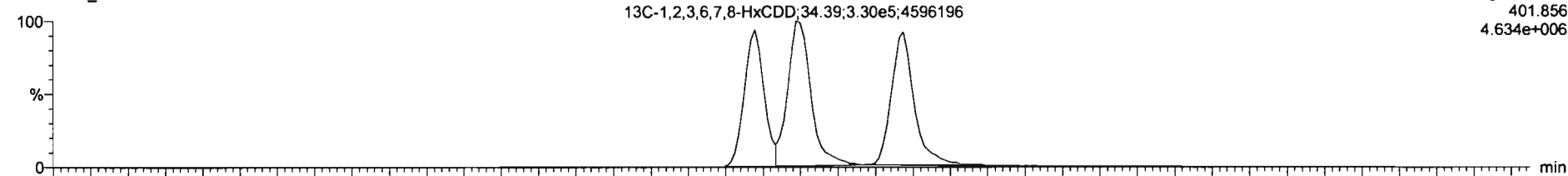


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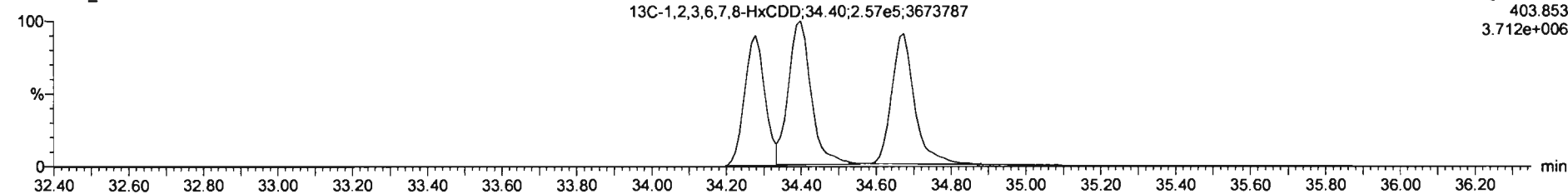


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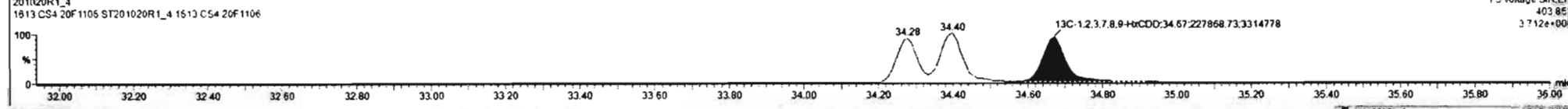
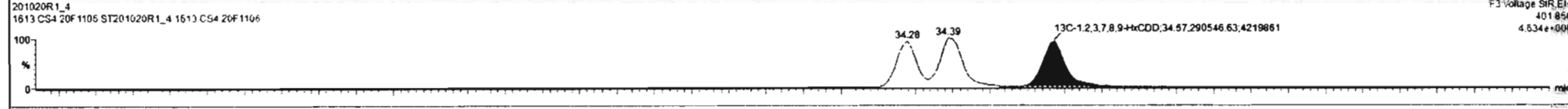
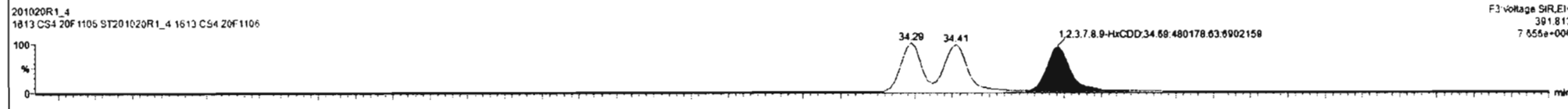
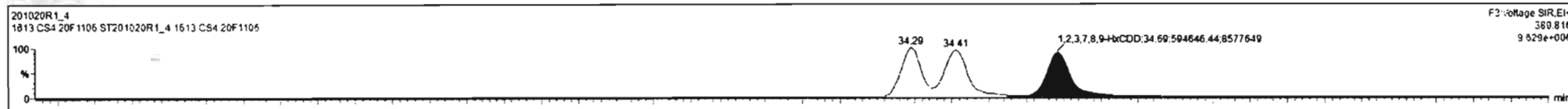
201020R1_4



201020R1_4



#	Name	RT	RA	yth	Ams	SAms	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	8.6	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.98	0.619	NO	1.2438e6	6.4725e5	200.000	8.5	9.58	0.885	0.0848
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	1.1698e6	5.8985e5	200.000	8.9	9.25	0.915	0.0848
5	1,2,3,7,8,9-HxCDD	34.89	1.229	NO	1.8748e6	5.1924e5	200.000	10.8	11.1	0.934	0.184
6	1,2,3,4,6,7,8-HpCDD	38.16	1.026	NO	8.5118e5	4.4350e5	200.000	10.3	11.7	0.870	0.102
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	1.1869e6	40.000	8.5	11.0	0.824	0.0908
9	1,2,3,7,8-PeCDF	29.73	1.556	NO	1.9432e6	9.5548e5	200.000	5.6	8.34	0.963	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	6.3624e5	200.000	9.8	11.9	0.953	0.112
12	1,2,3,6,7,8-HxCDF	33.51	1.217	NO	1.5510e6	6.9639e5	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	9.6	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	3.8349e5	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	28.31	0.776	NO	8.8230e5	7.9905e5	100.000	-2.6	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.98	0.624	NO	6.4725e5	7.9905e5	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	6.8699e5	100.000	-1.9	7.87	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.39	1.283	NO	5.8985e5	6.8699e5	100.000	2.5	8.74	0.833	0.0561



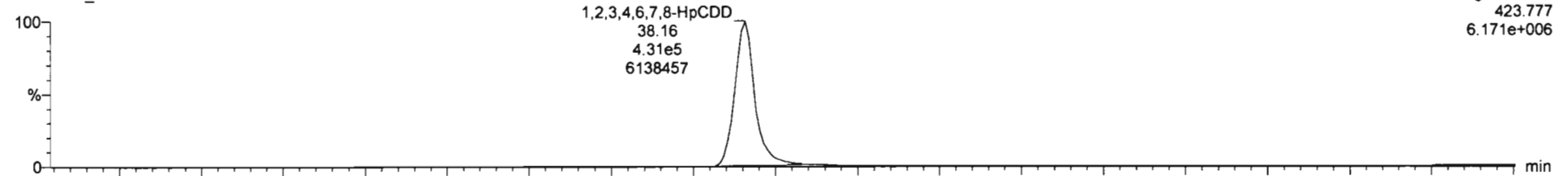
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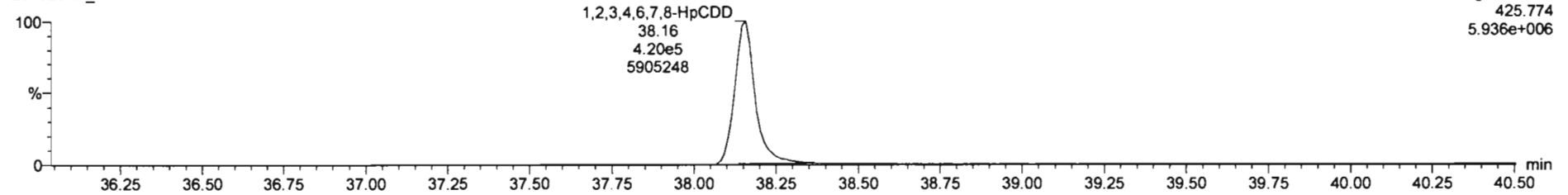
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1,2,3,4,6,7,8-HpCDD

201020R1_4

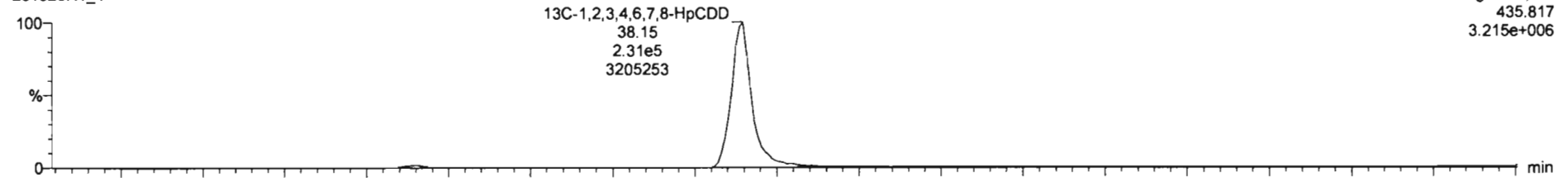


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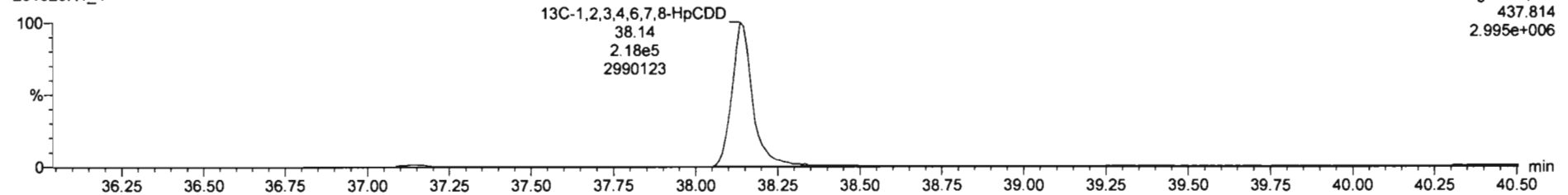


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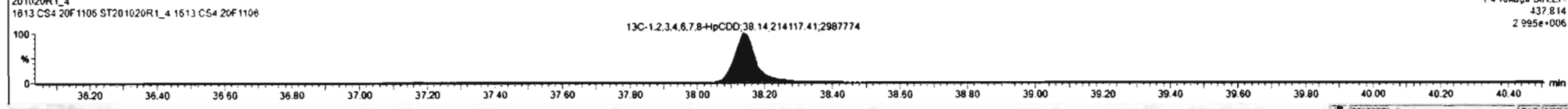
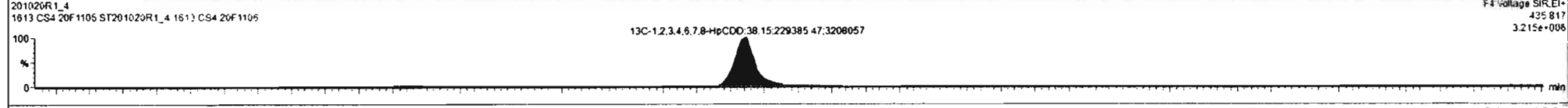
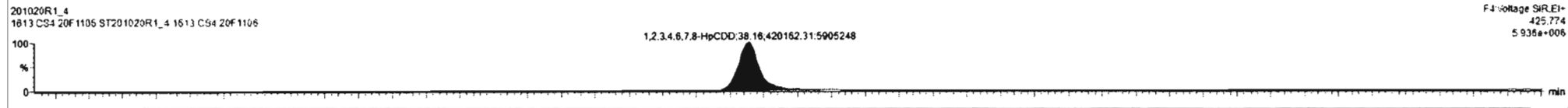
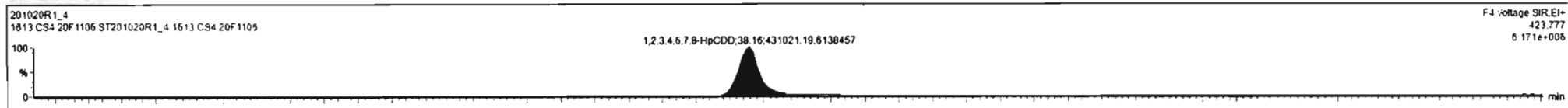
201020R1_4



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



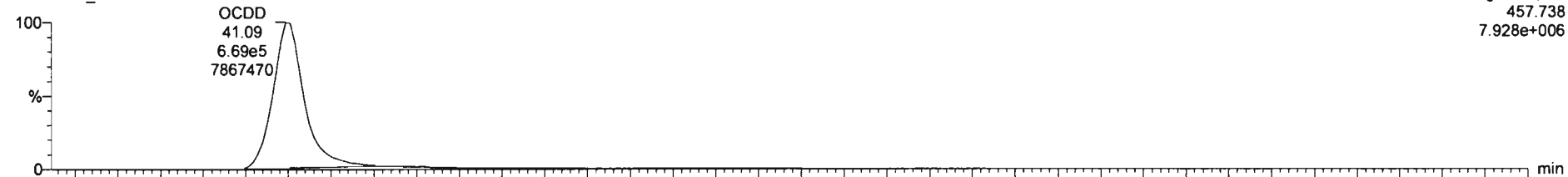
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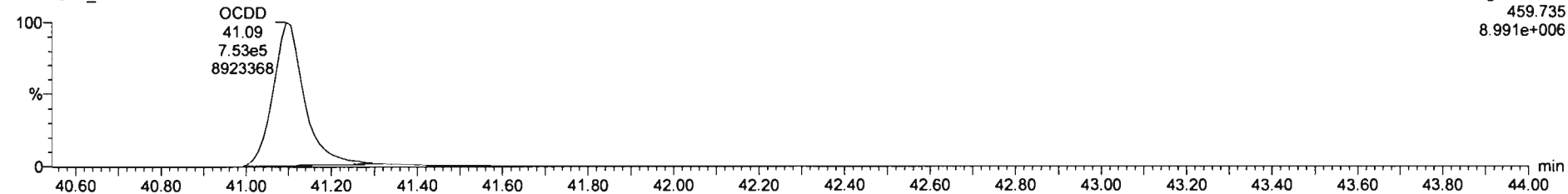
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OCDD

201020R1_4

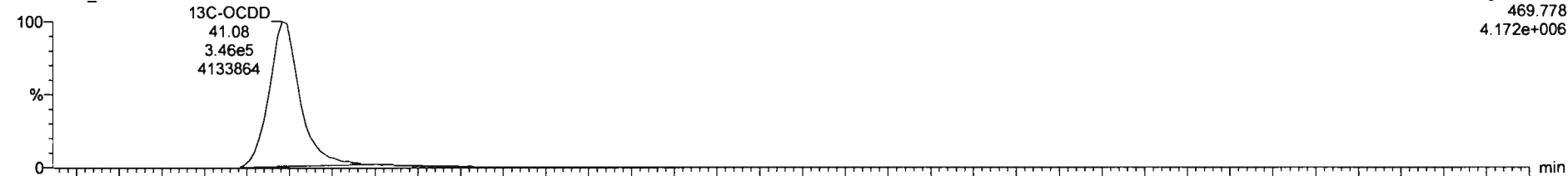


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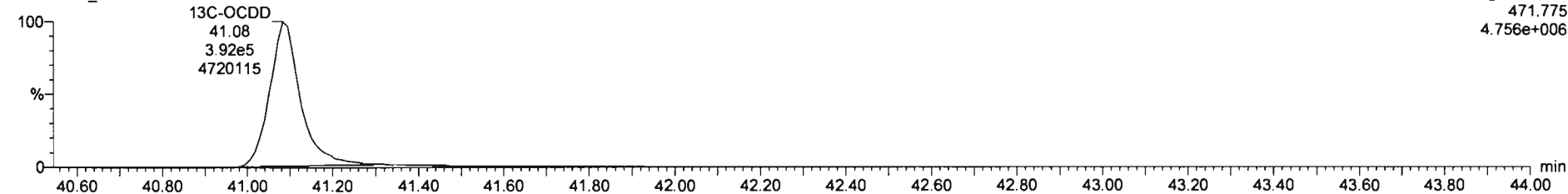


13C-OCDD

201020R1_4



201020R1_4



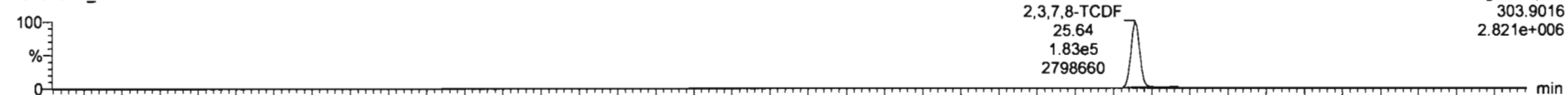
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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

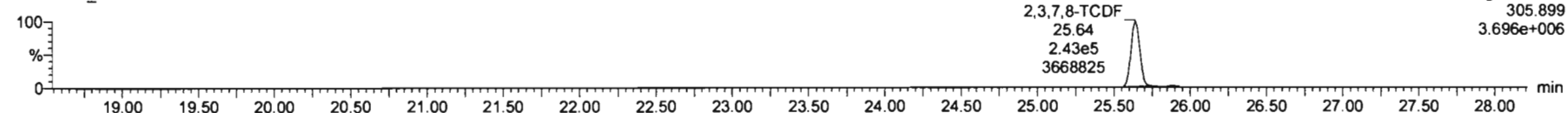
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2,3,7,8-TCDF

201020R1_4

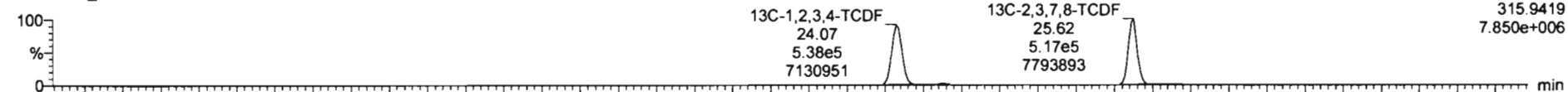


201020R1_4

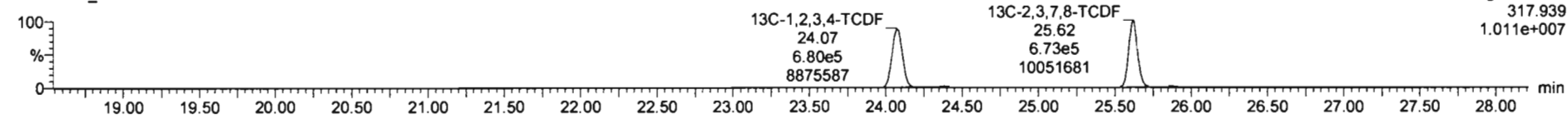


13C-2,3,7,8-TCDF

201020R1_4

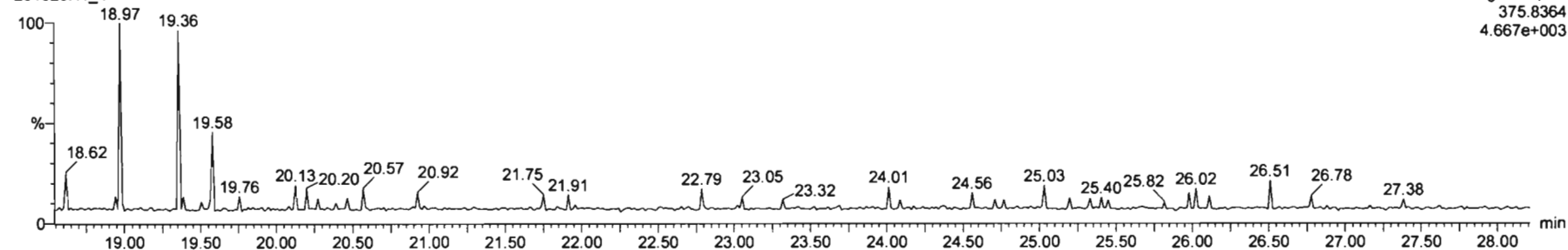


201020R1_4



DPE1

201020R1_4



Dataset: Untitled

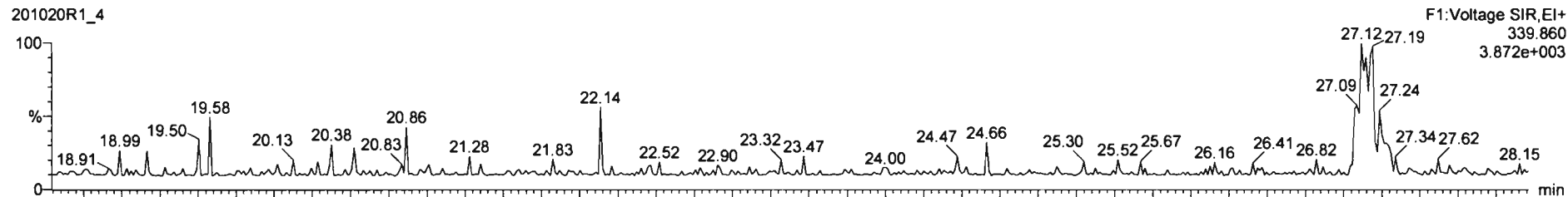
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

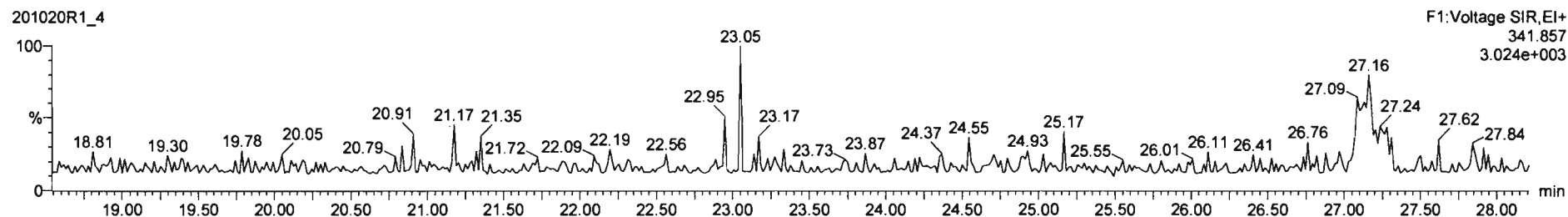
Name: 201020R1_4, Date: 20-Oct-2020, Time: 11:32:31, ID: ST201020R1_4 1613 CS4 20F1106, Description: 1613 CS4 20F1106

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201020R1_4

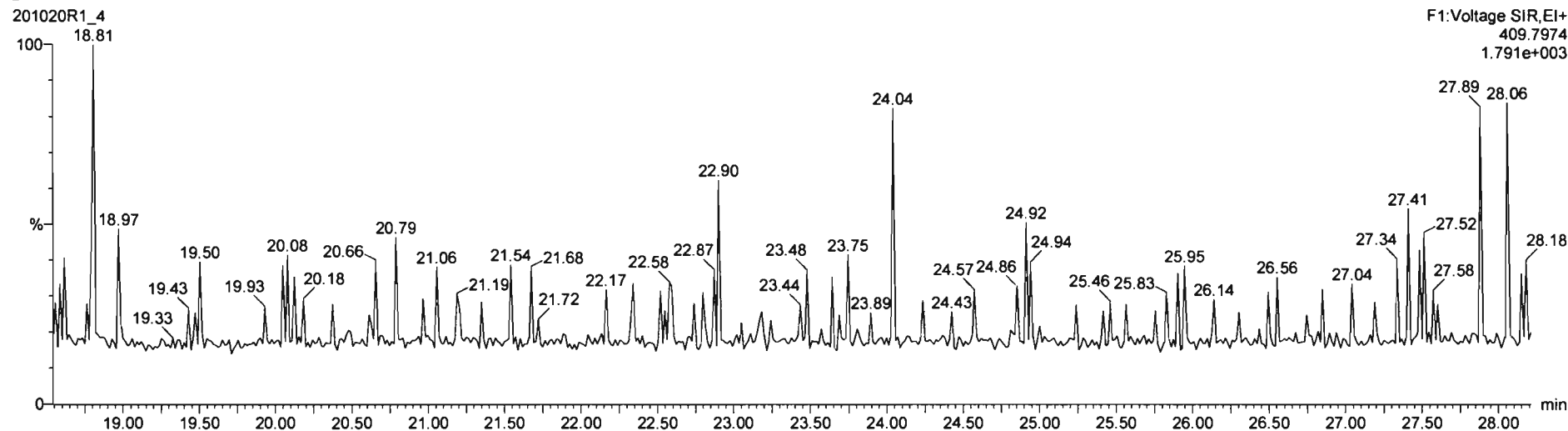


201020R1_4



DPE6

201020R1_4



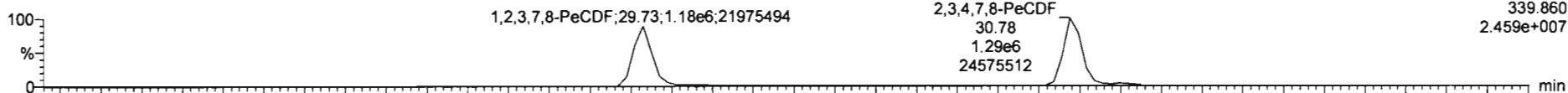
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

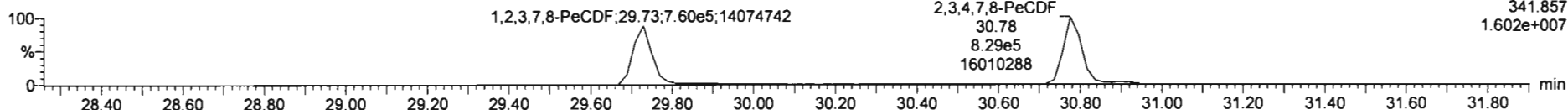
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1,2,3,7,8-PeCDF

201020R1_4

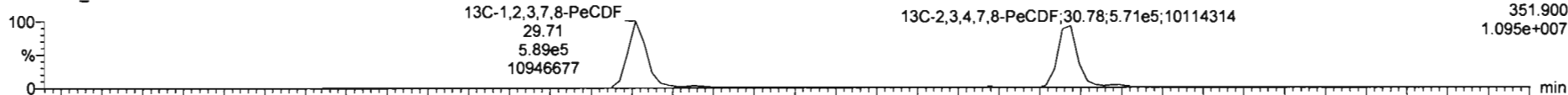


201020R1_4

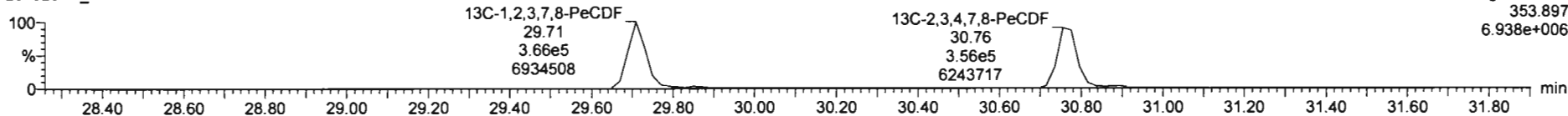


13C-1,2,3,7,8-PeCDF

201020R1_4

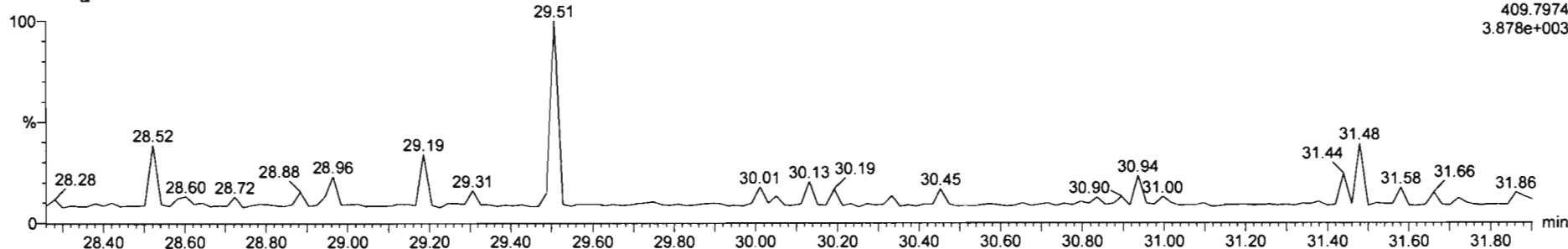


201020R1_4



DPE2

201020R1_4



Dataset: Untitled

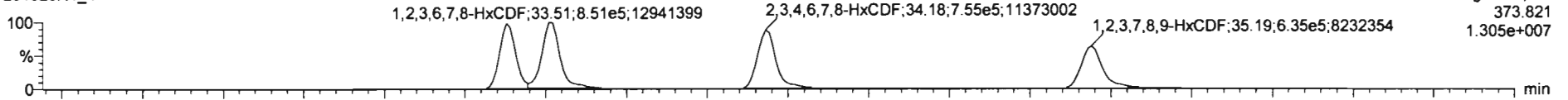
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

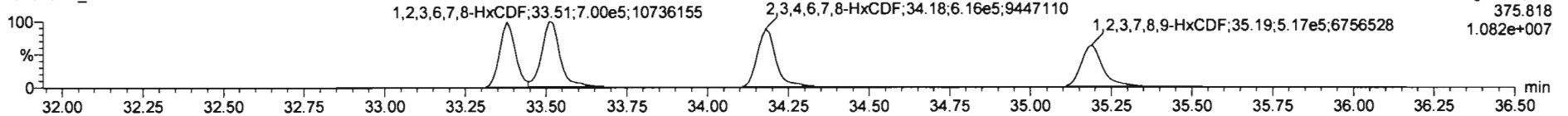
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1,2,3,4,7,8-HxCDF

201020R1_4

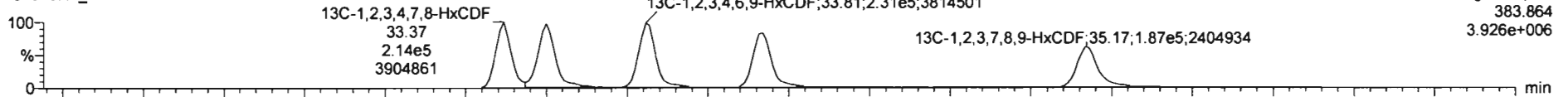


201020R1_4

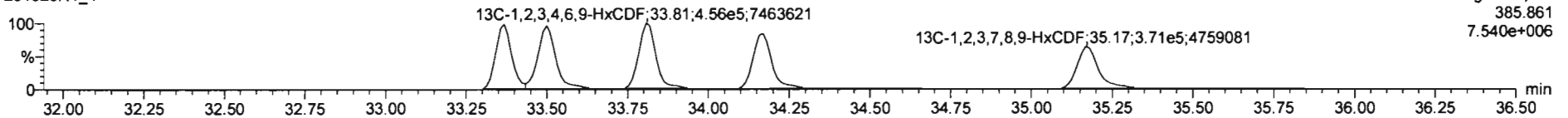


13C-1,2,3,4,7,8-HxCDF

201020R1_4

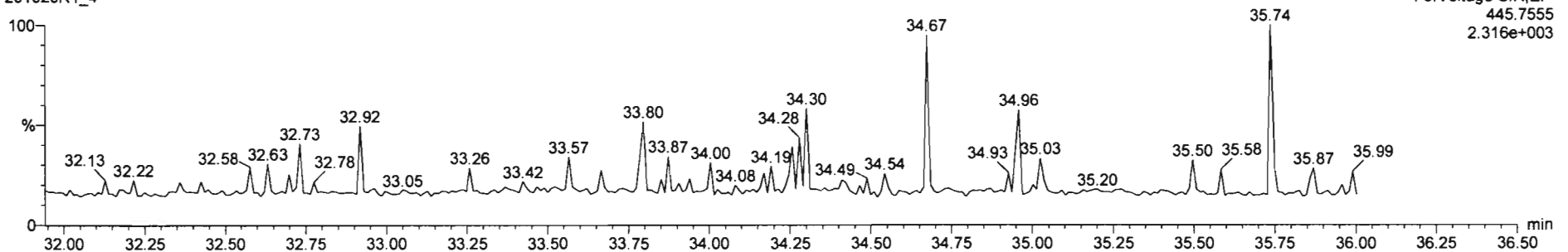


201020R1_4



DPE3

201020R1_4



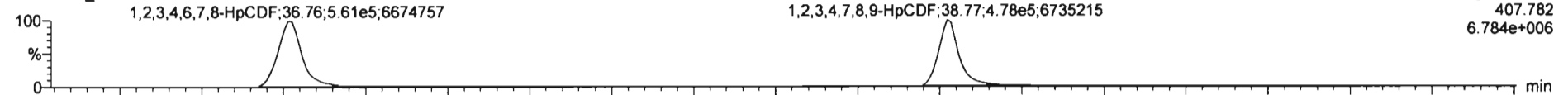
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

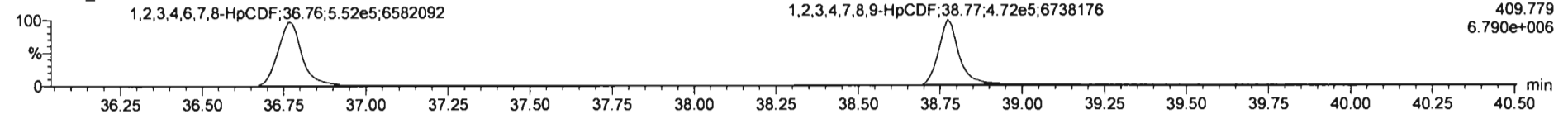
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1,2,3,4,6,7,8-HpCDF

201020R1_4

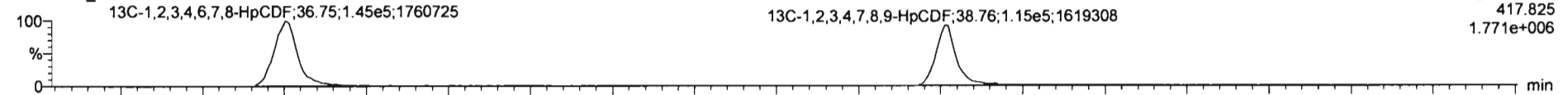


201020R1_4

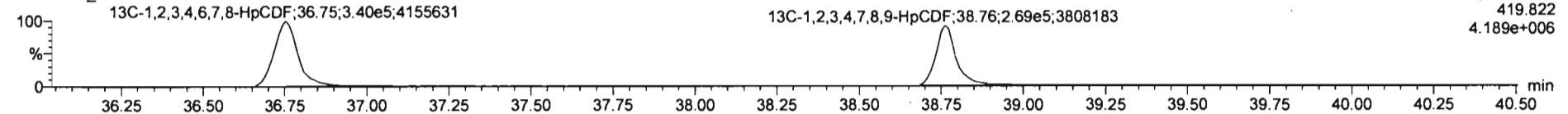


13C-1,2,3,4,6,7,8-HpCDF

201020R1_4

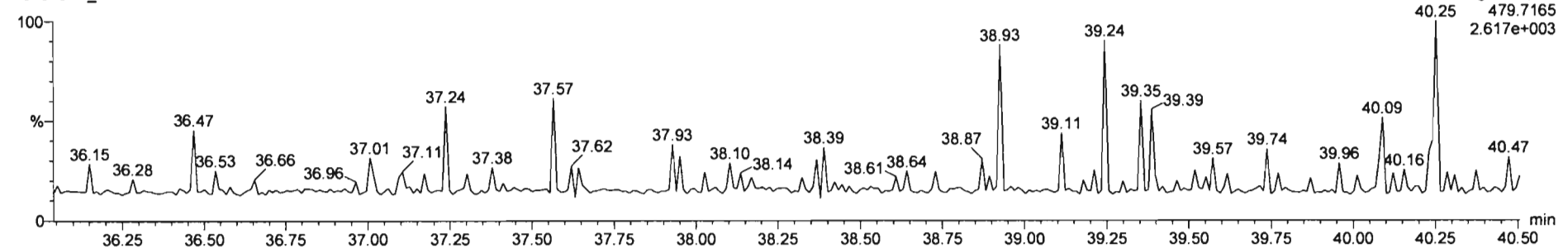


201020R1_4



DPE4

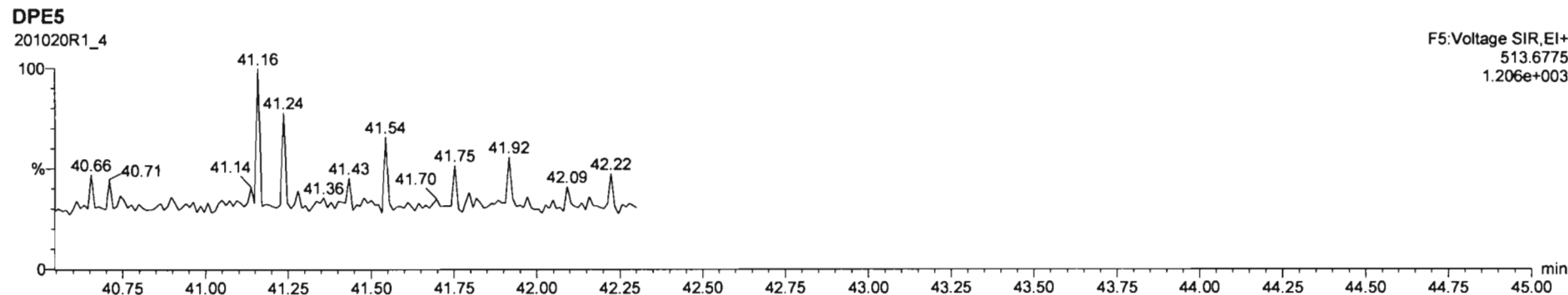
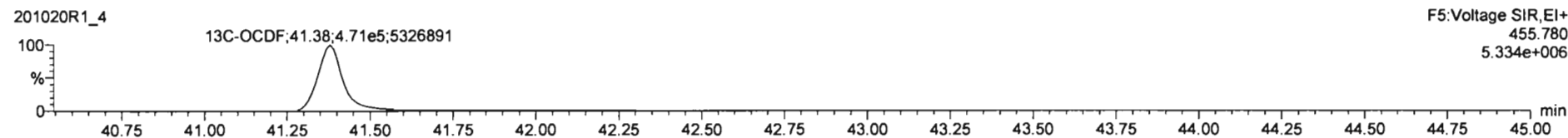
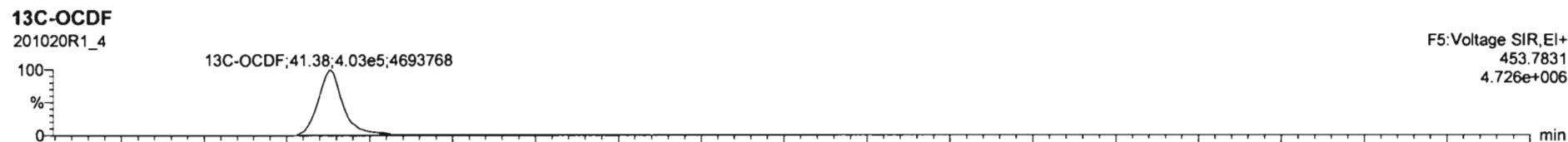
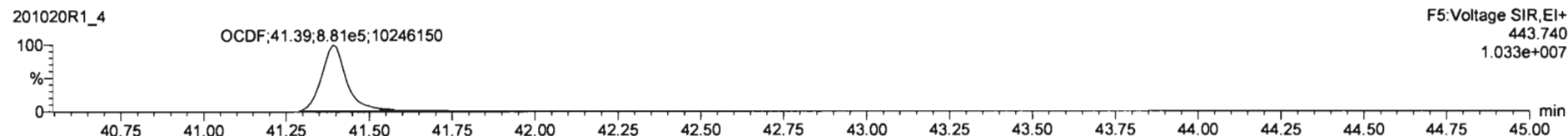
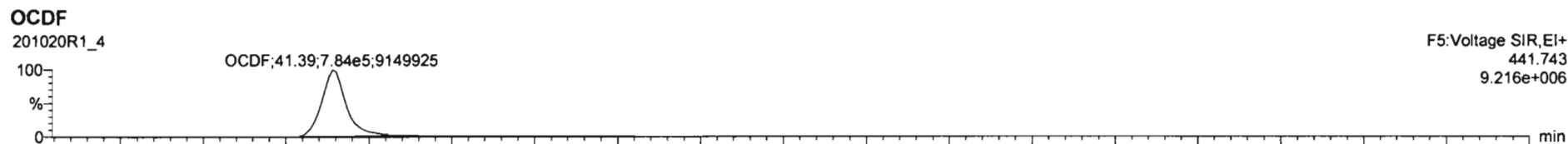
201020R1_4



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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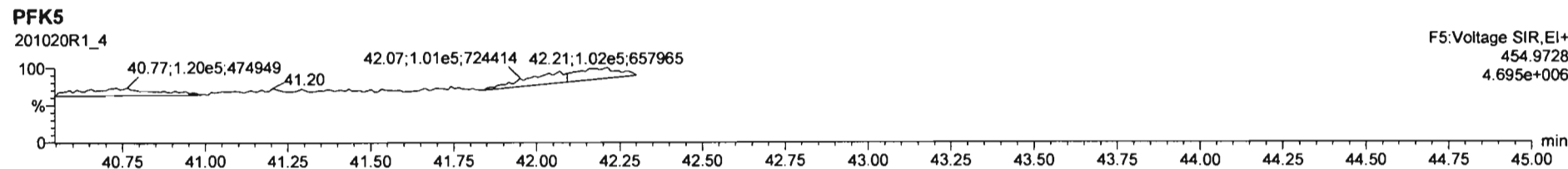
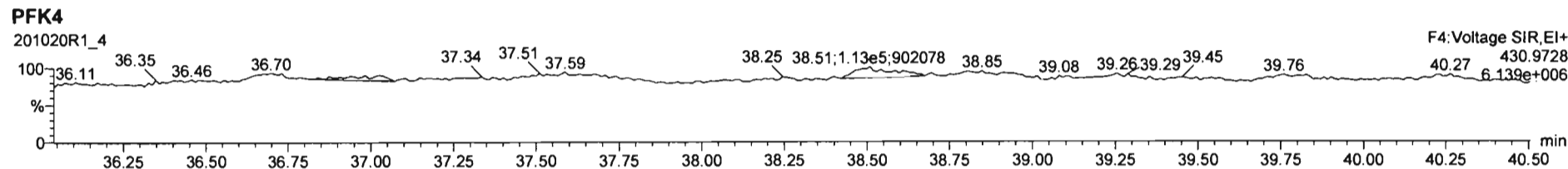
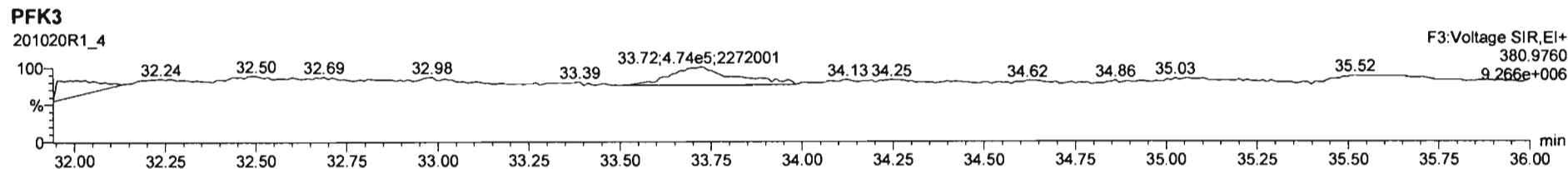
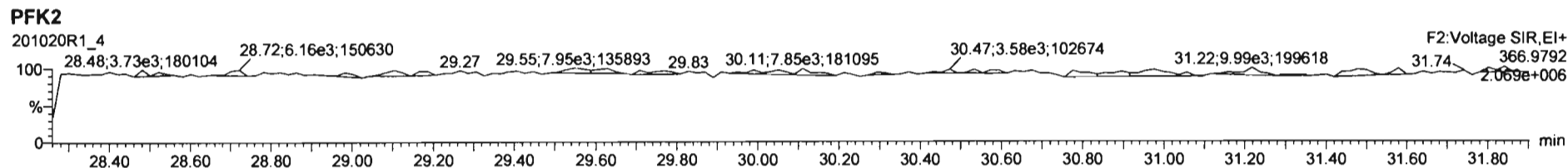
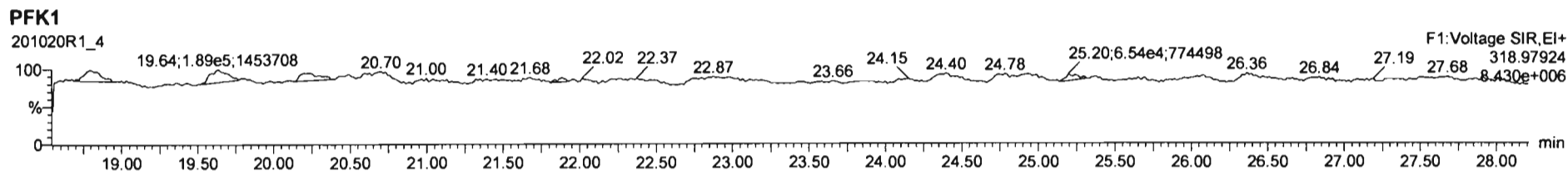


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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

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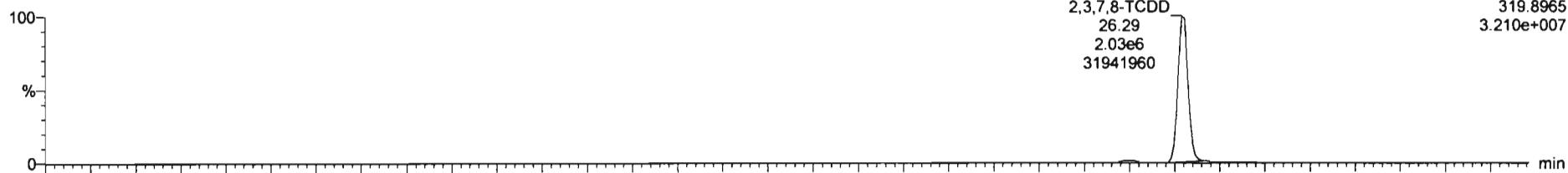
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

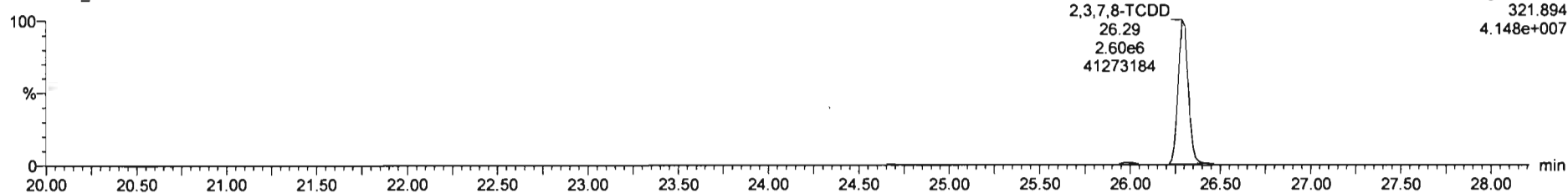
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2,3,7,8-TCDD

201020R1_5

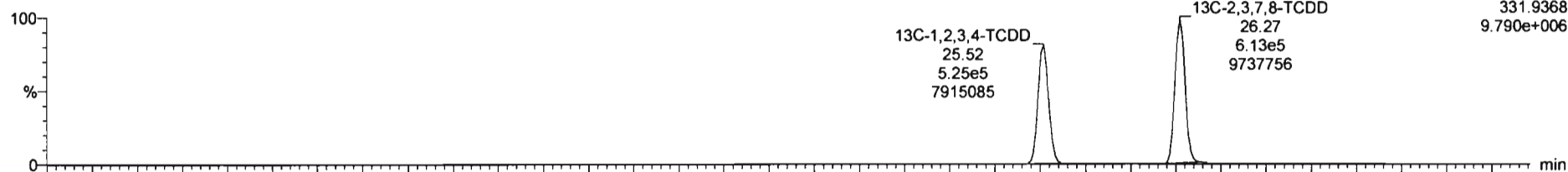


201020R1_5

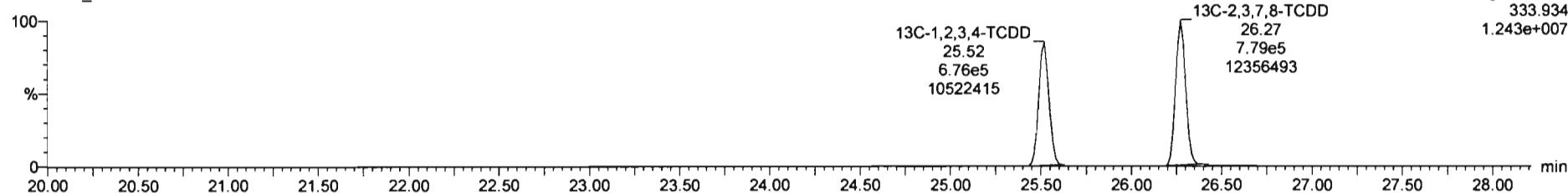


13C-2,3,7,8-TCDD

201020R1_5



201020R1_5



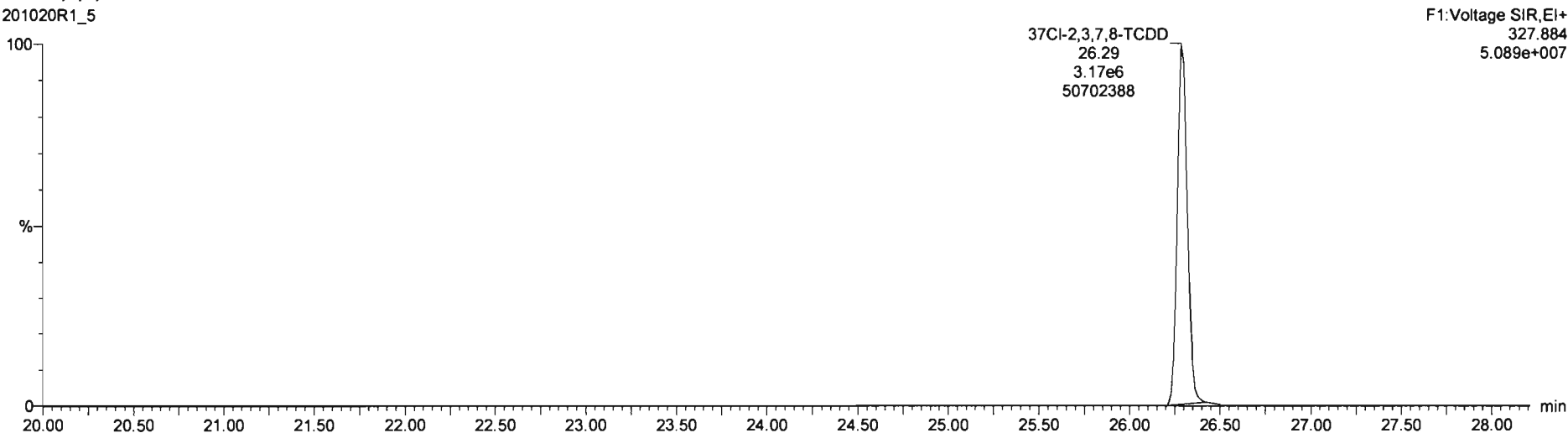
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37Cl-2,3,7,8-TCDD

201020R1_5

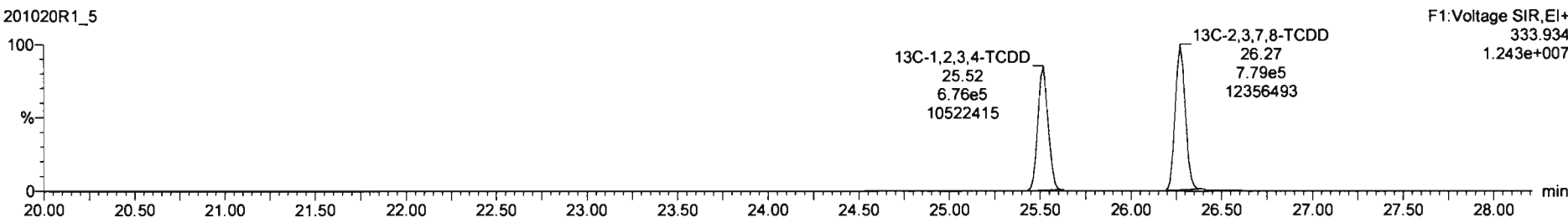


13C-1,2,3,4-TCDD

201020R1_5



201020R1_5



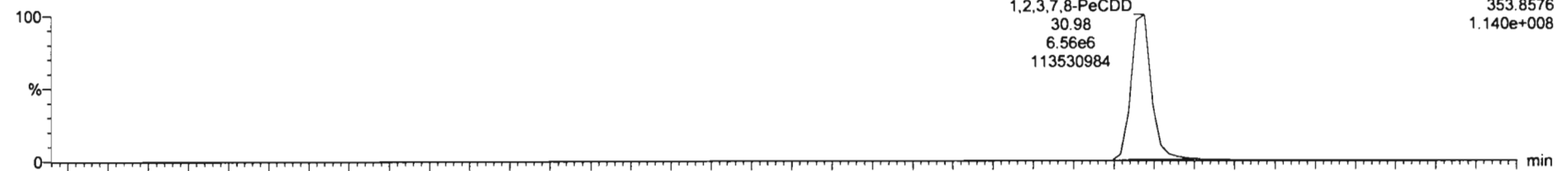
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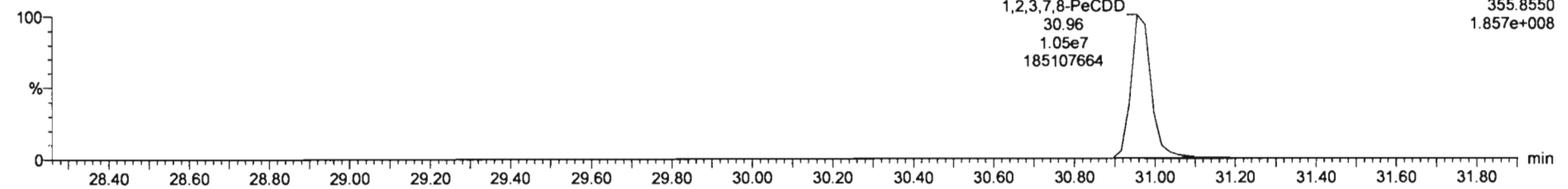
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1,2,3,7,8-PeCDD

201020R1_5

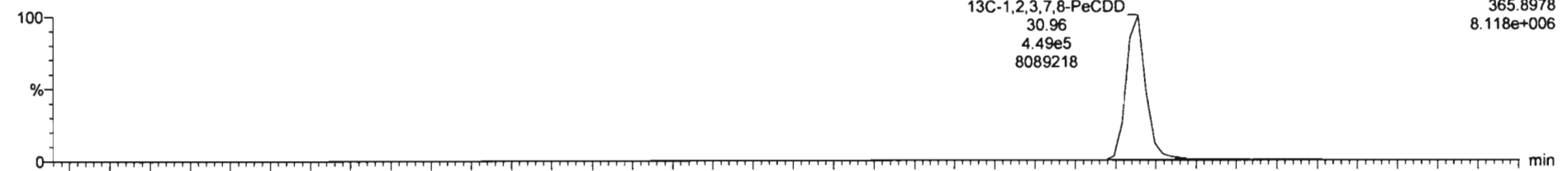


201020R1_5

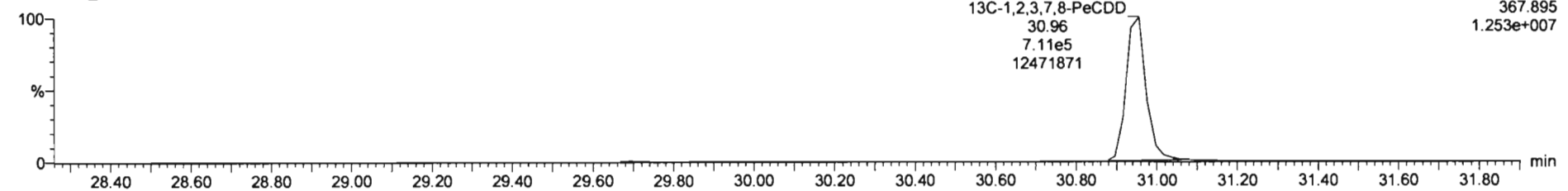


13C-1,2,3,7,8-PeCDD

201020R1_5



201020R1_5



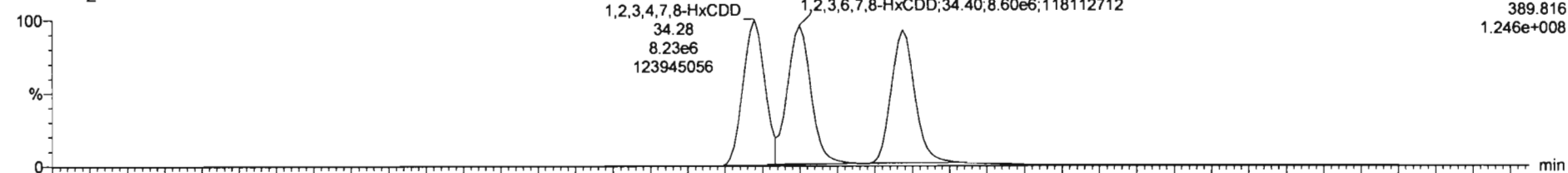
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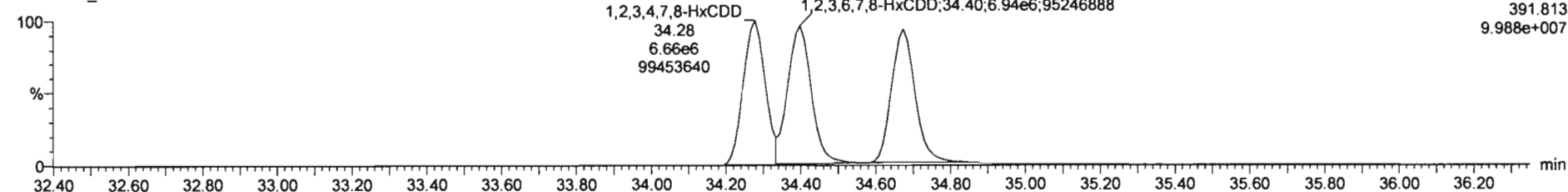
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1,2,3,4,7,8-HxCDD

201020R1_5

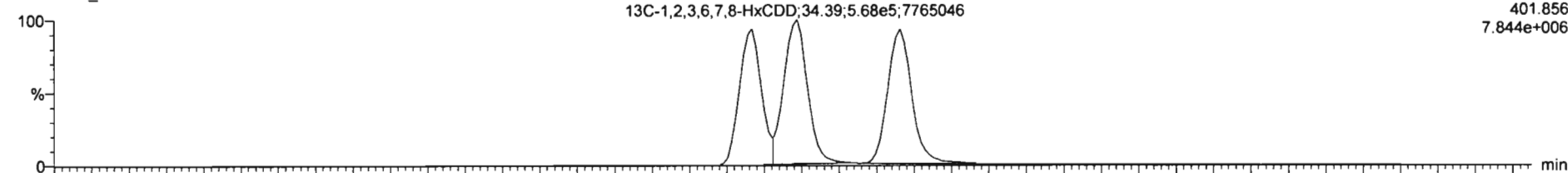


201020R1_5

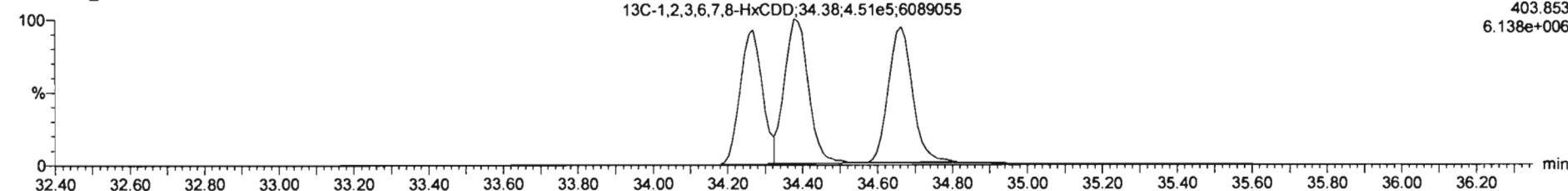


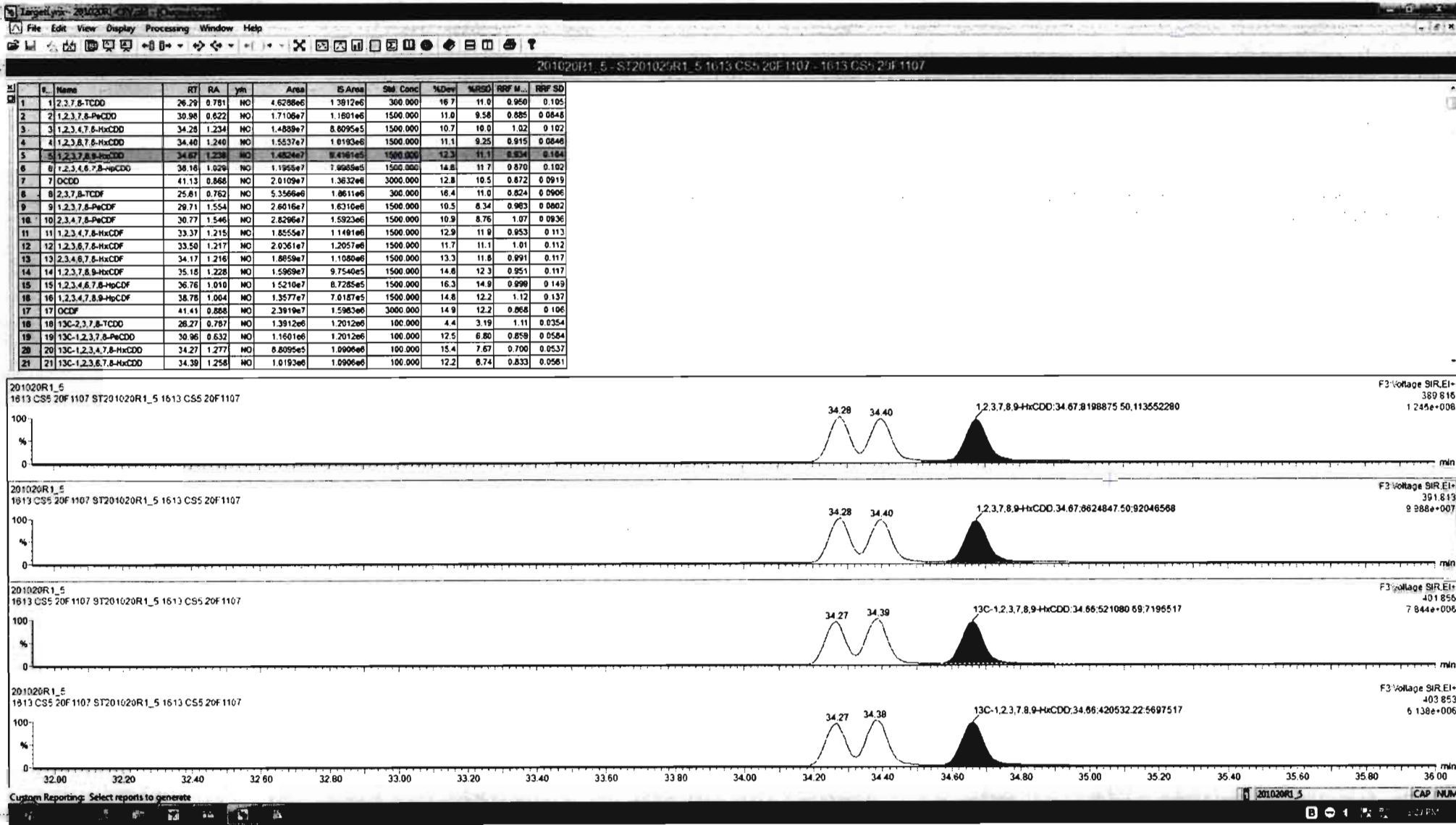
13C-1,2,3,4,7,8-HxCDD

201020R1_5



201020R1_5





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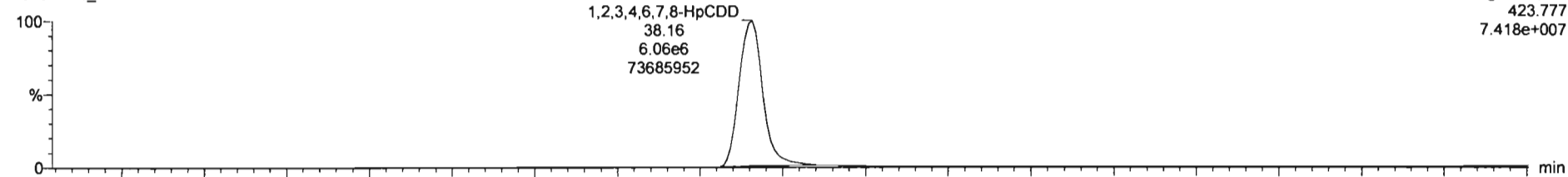
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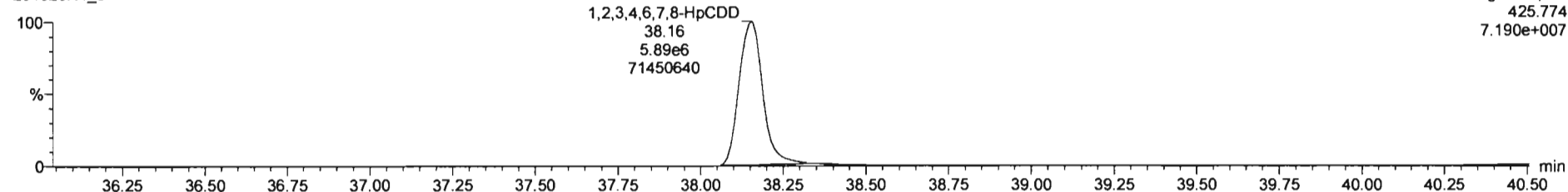
1,2,3,4,6,7,8-HpCDD

201020R1_5



F4: Voltage SIR, EI+
423.777
7.418e+007

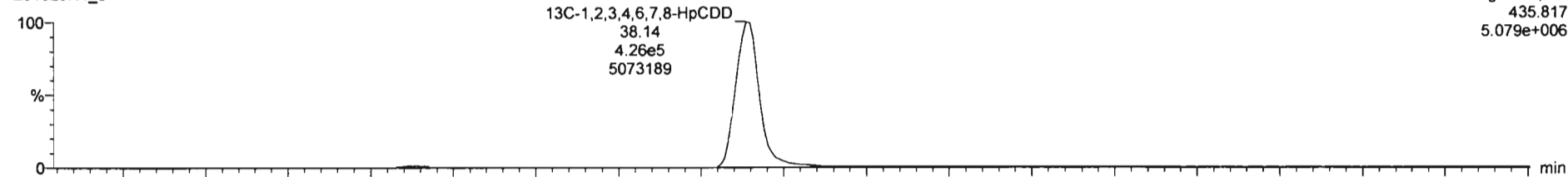
201020R1_5



F4: Voltage SIR, EI+
425.774
7.190e+007

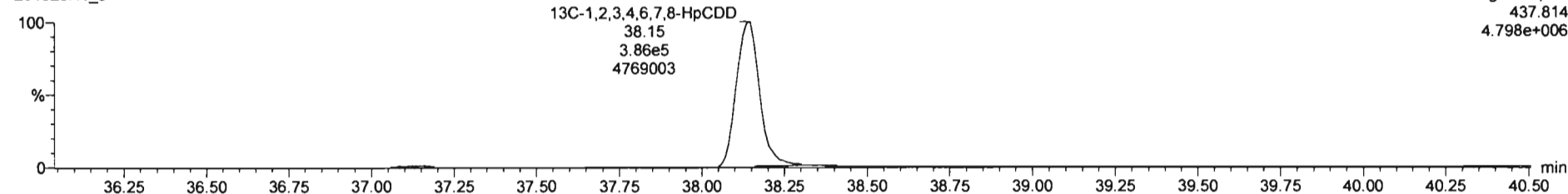
13C-1,2,3,4,6,7,8-HpCDD

201020R1_5



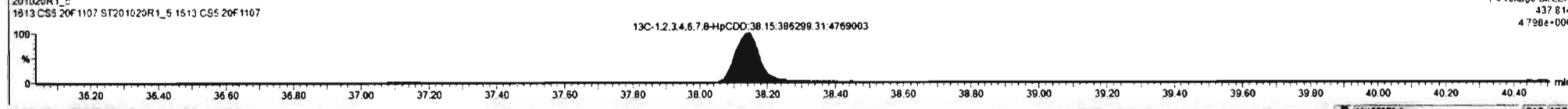
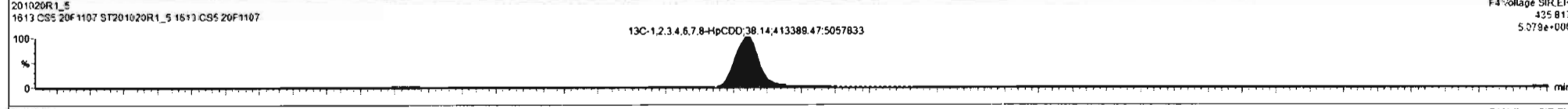
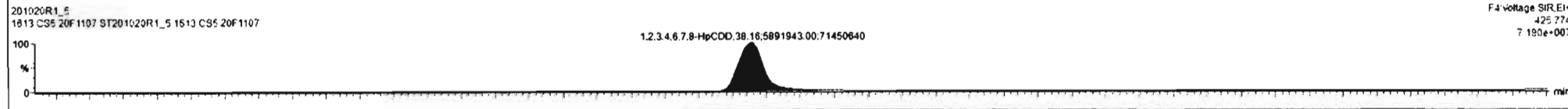
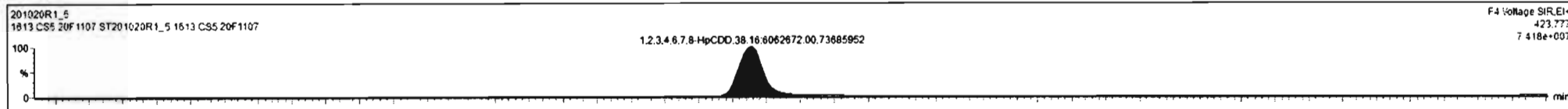
F4: Voltage SIR, EI+
435.817
5.079e+006

201020R1_5



F4: Voltage SIR, EI+
437.814
4.798e+006

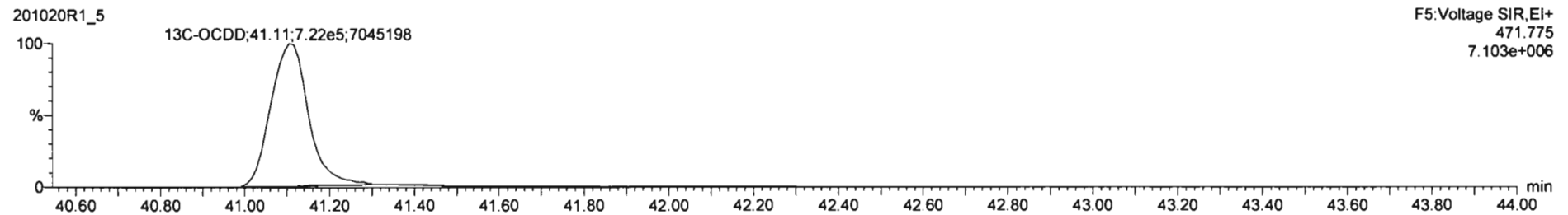
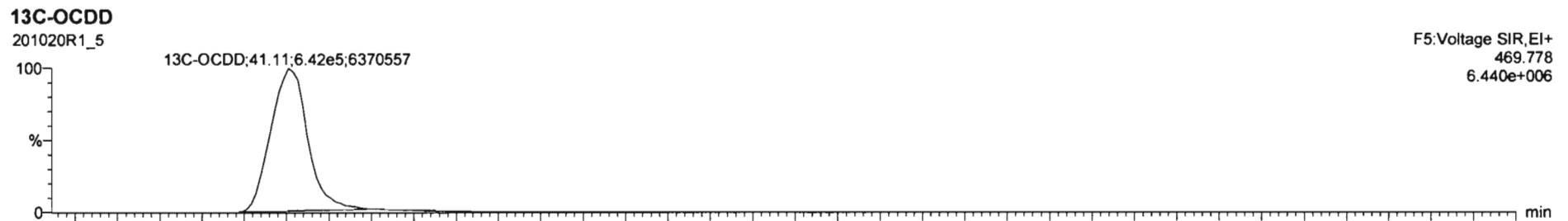
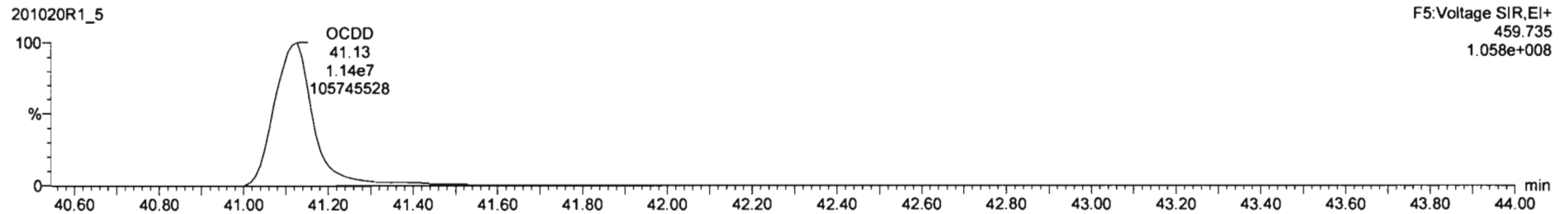
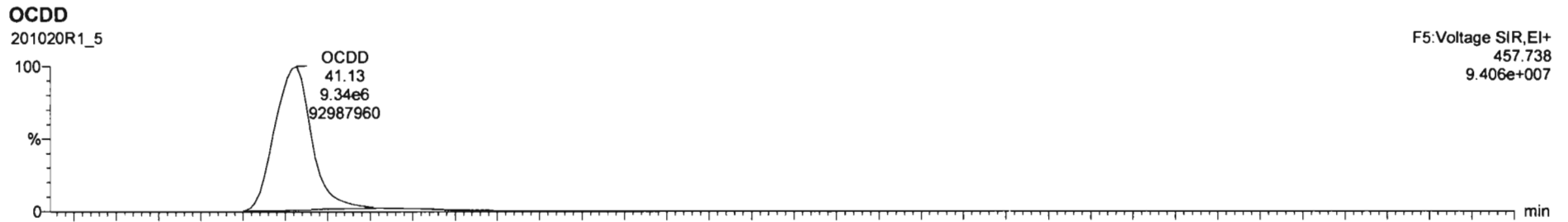
#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF W.	RRF SD
1	1,2,3,7,8-TCDD	26.29	0.781	NO	4.6288e6	1.3912e6	300.000	16.7	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.98	0.622	NO	1.7108e7	1.1801e6	1500.000	11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.234	NO	1.4888e7	8.8095e5	1500.000	10.7	10.0	1.02	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	1.829	NO	1.1925e7	7.8998e5	1500.000	14.8	11.7	0.870	0.182
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	1.8310e6	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



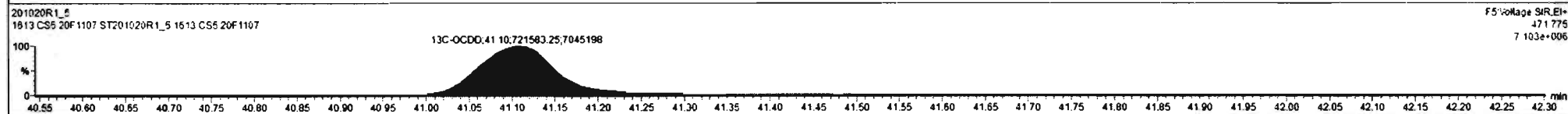
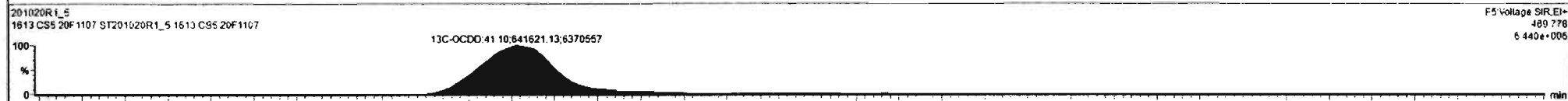
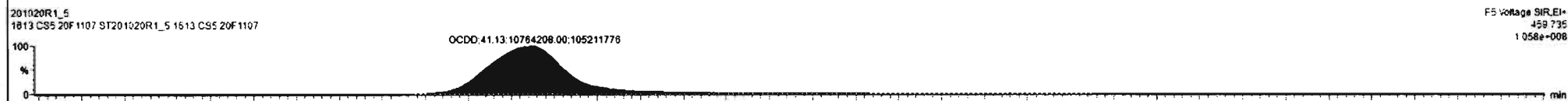
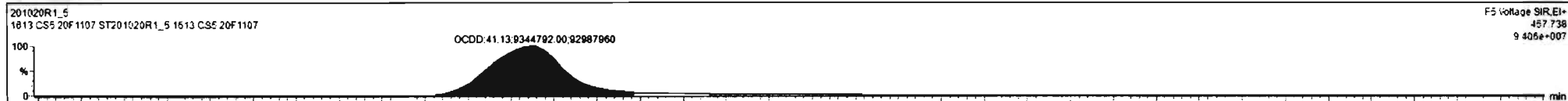
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Name: 201020R1_5, Date: 20-Oct-2020, Time: 12:16:56, ID: ST201020R1_5 1613 CS5 20F1107, Description: 1613 CS5 20F1107



#	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	1.5374e7	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	1.3632e6	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	1.1080e6	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



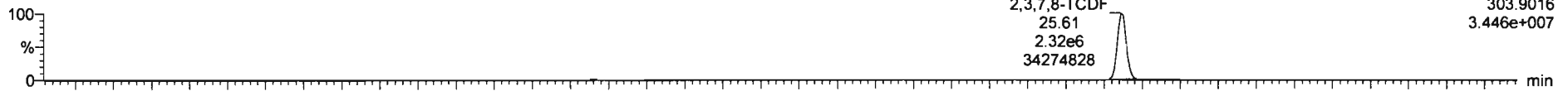
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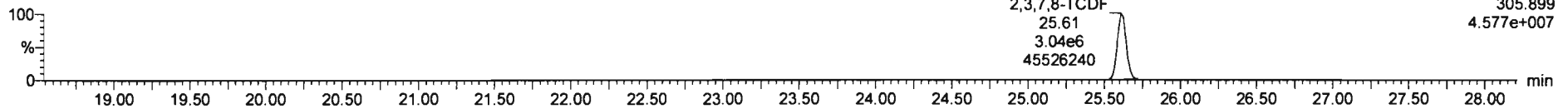
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2,3,7,8-TCDF

201020R1_5

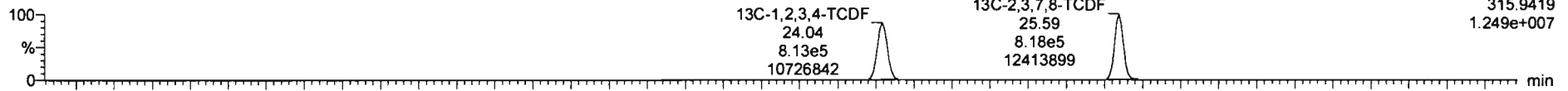


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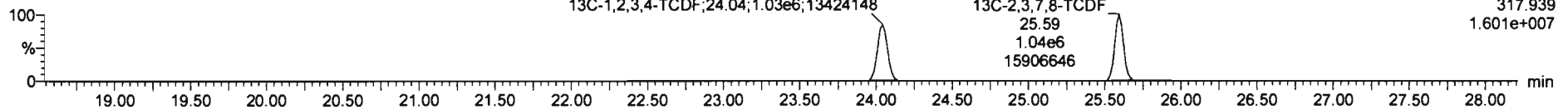


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201020R1_5

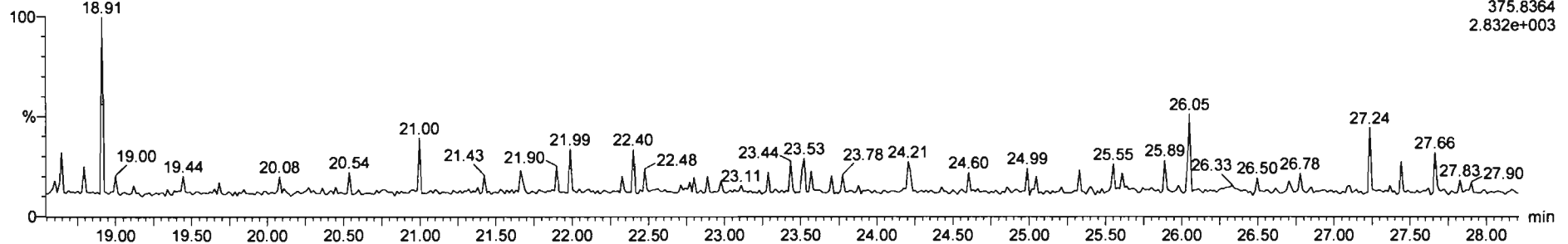


201020R1_5



DPE1

201020R1_5



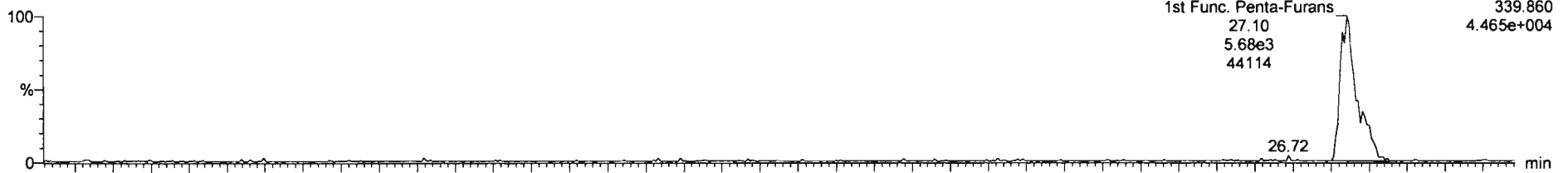
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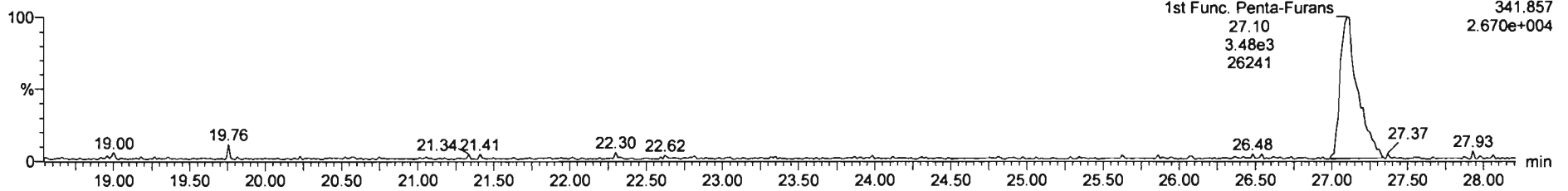
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201020R1_5

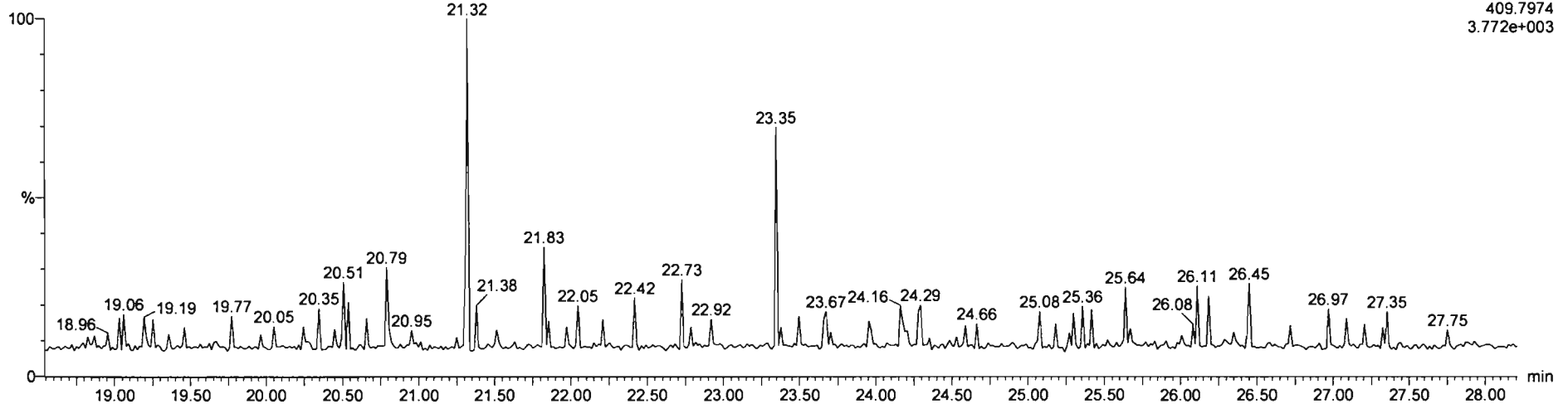


201020R1_5



DPE6

201020R1_5



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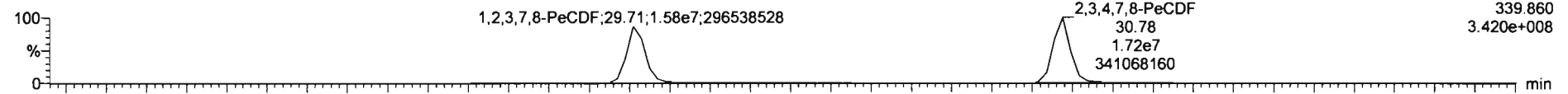
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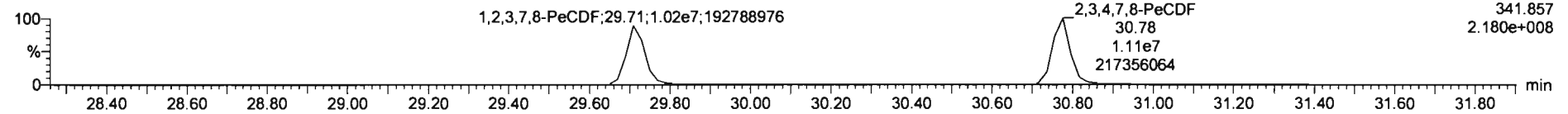
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1,2,3,7,8-PeCDF

201020R1_5

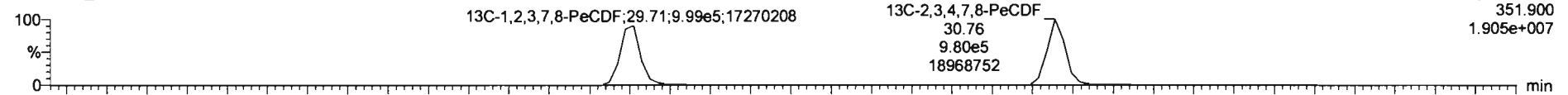


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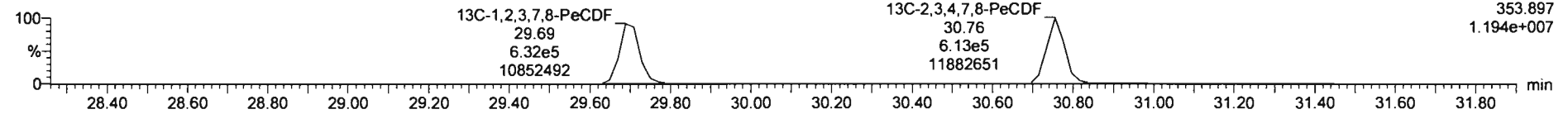


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201020R1_5

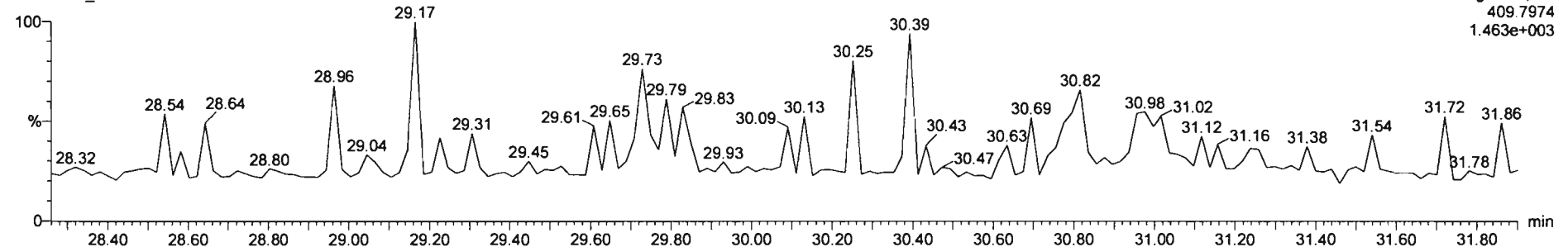


201020R1_5



DPE2

201020R1_5



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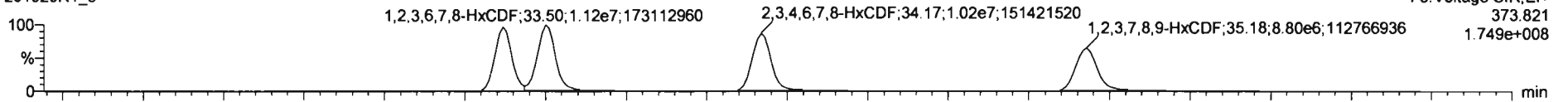
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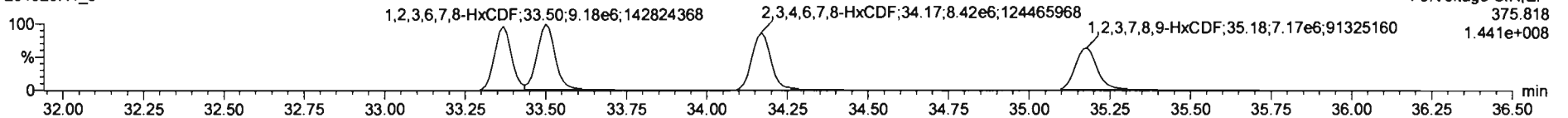
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1,2,3,4,7,8-HxCDF

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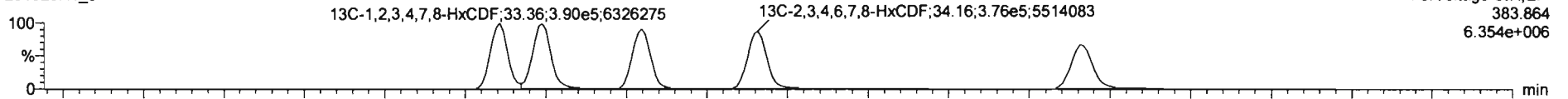


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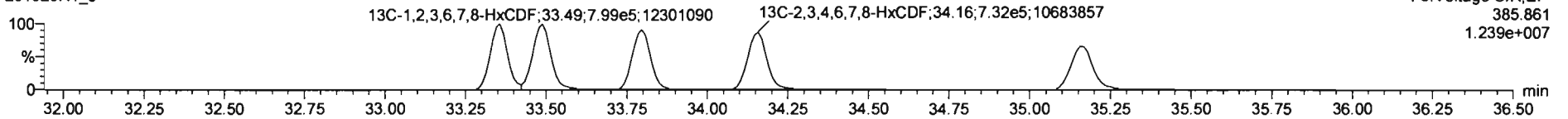


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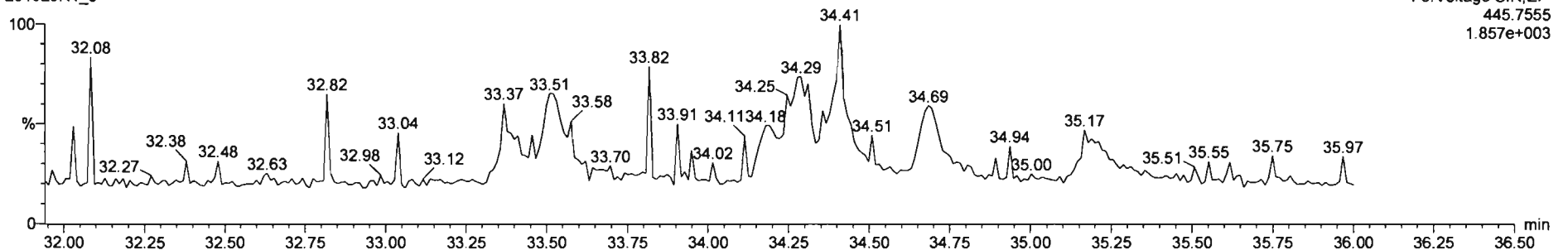


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DPE3

201020R1_5



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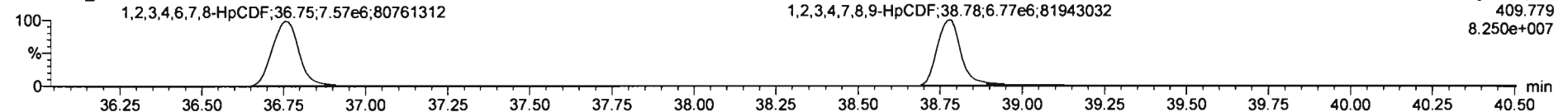
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201020R1_5

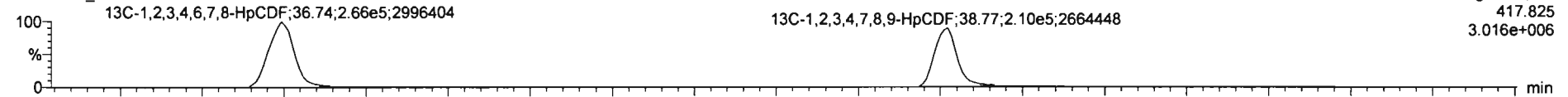


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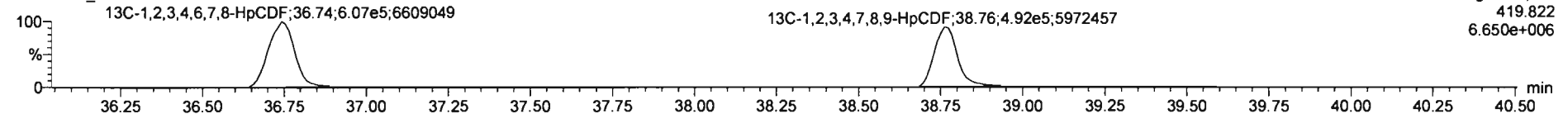


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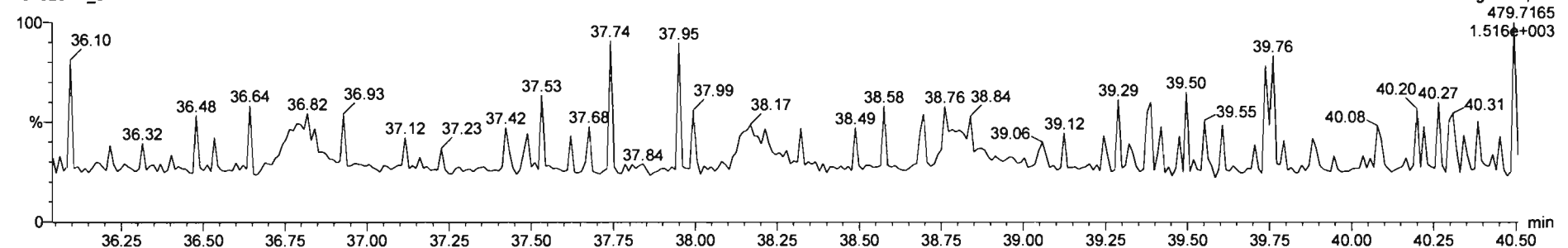


201020R1_5



DPE4

201020R1_5



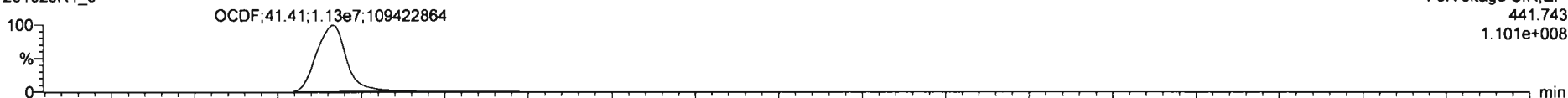
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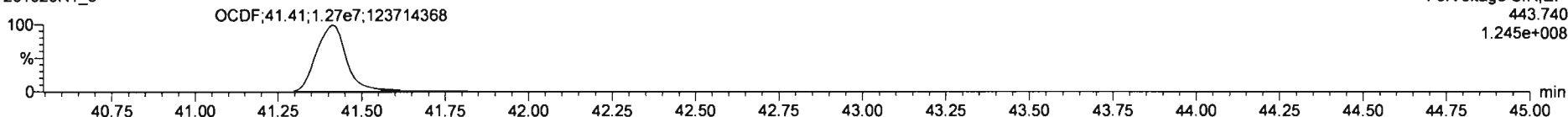
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OCDF

201020R1_5

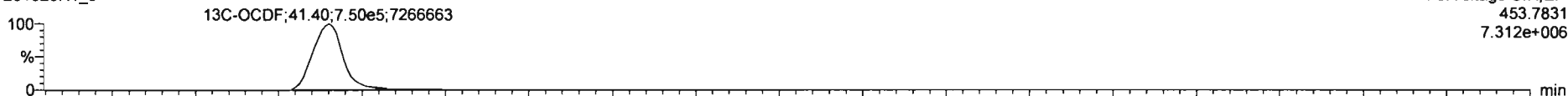


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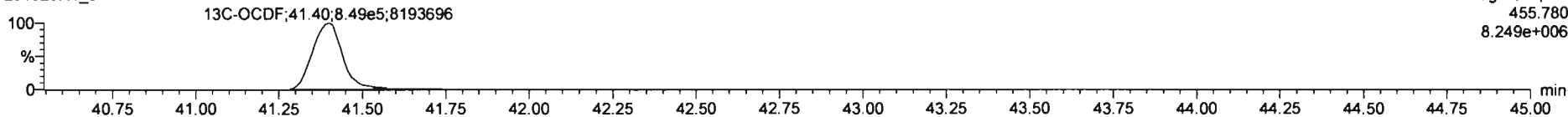


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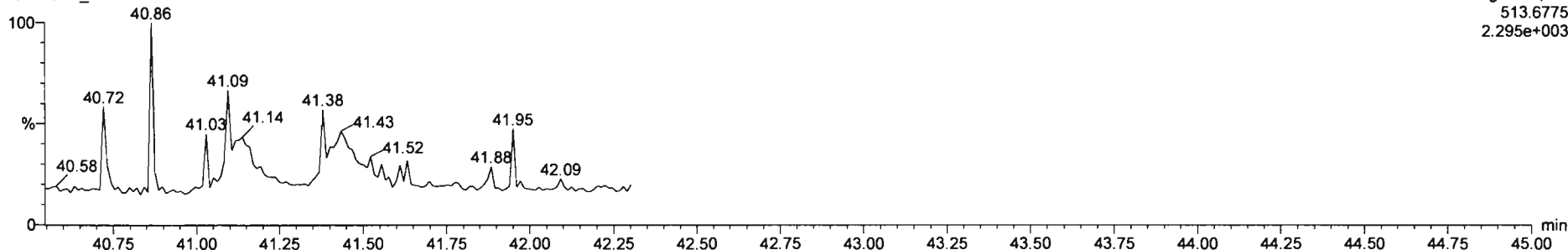


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DPE5

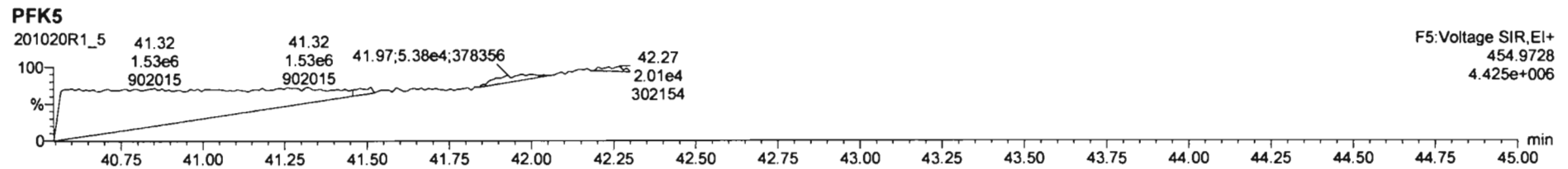
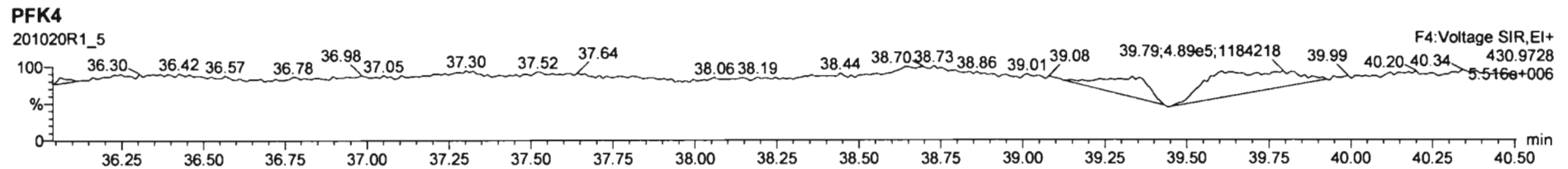
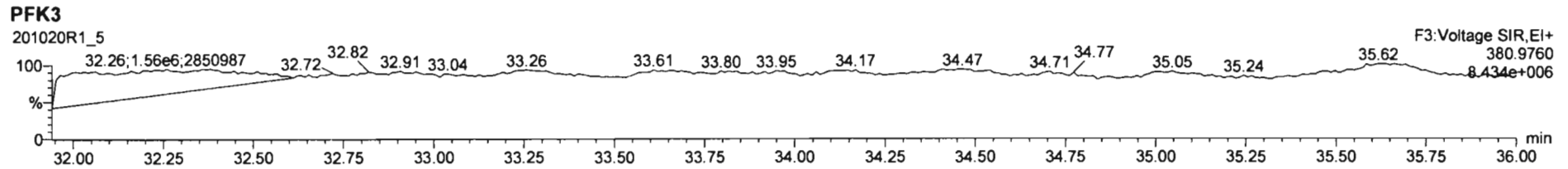
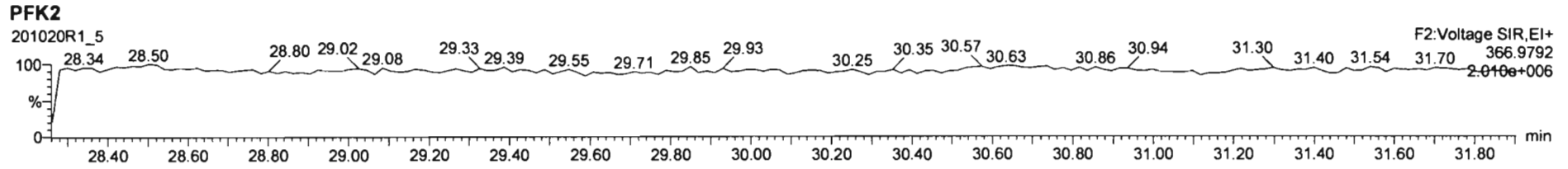
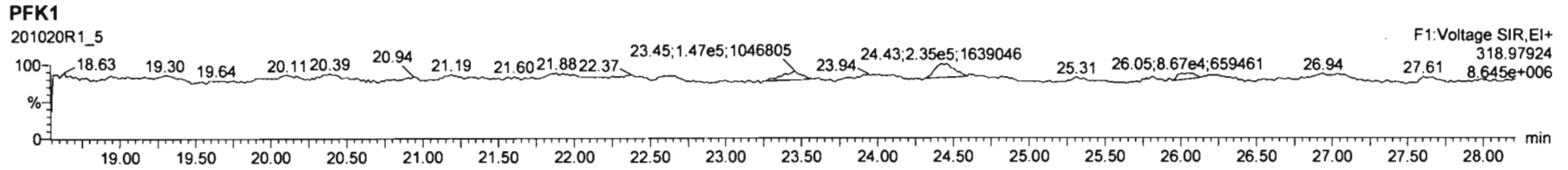
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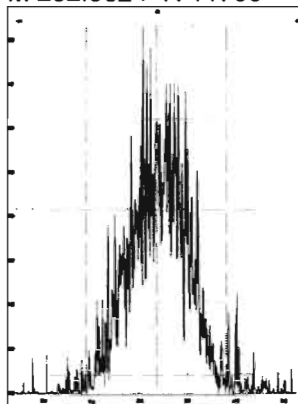
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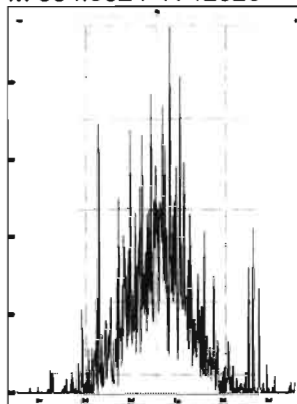


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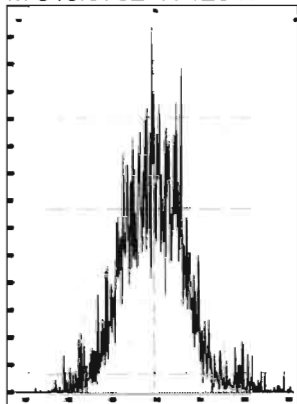
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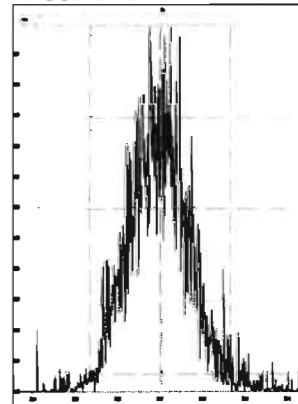
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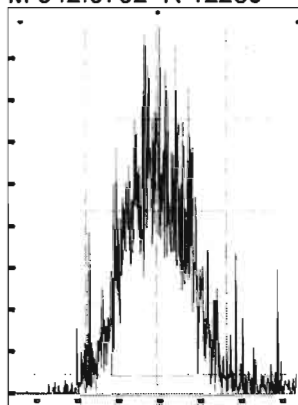
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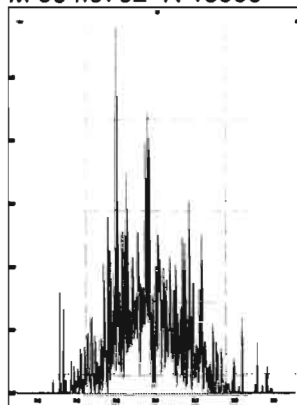
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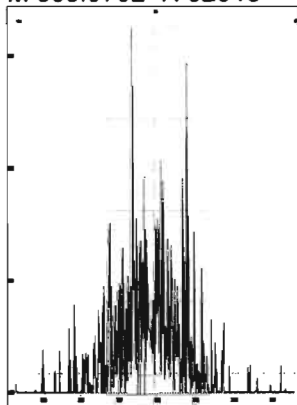
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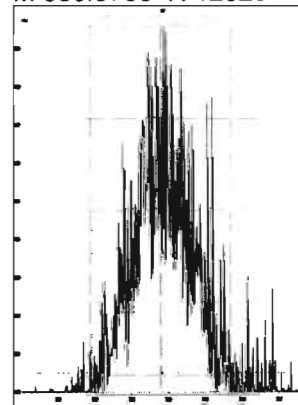
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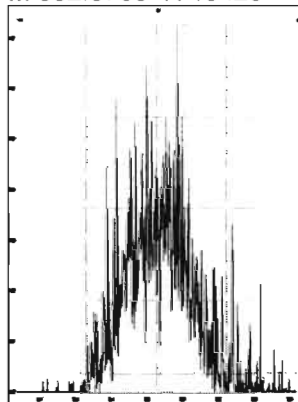
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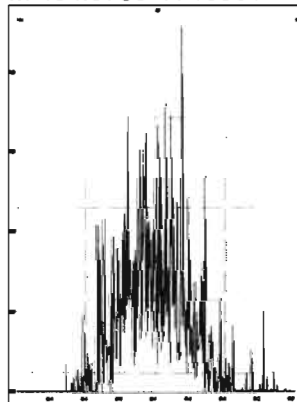
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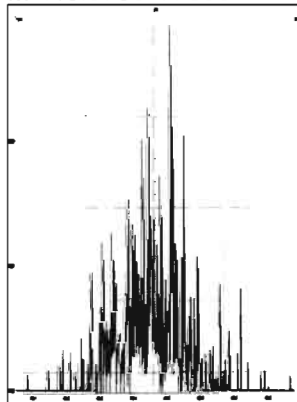
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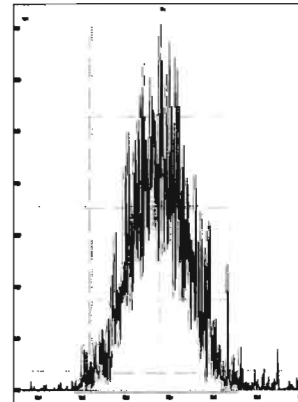
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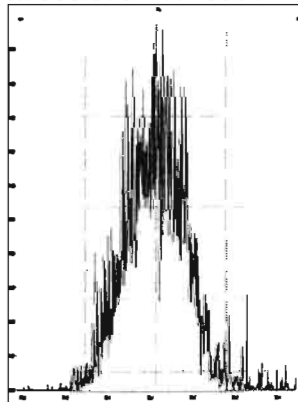
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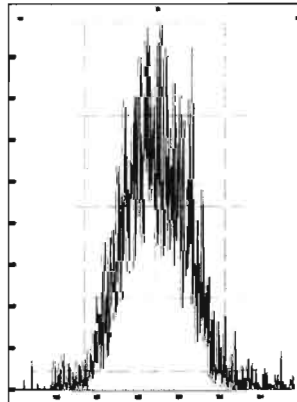
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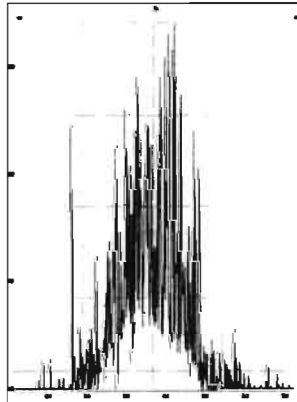
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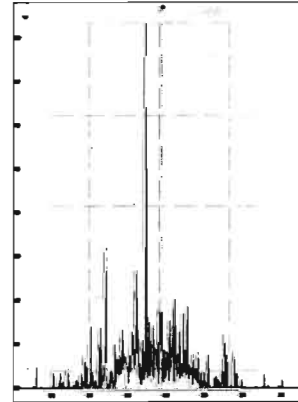
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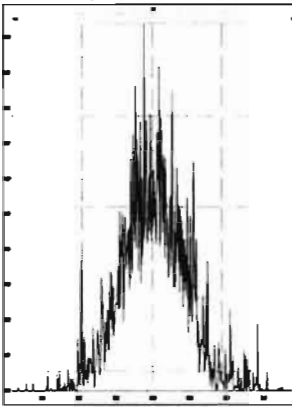


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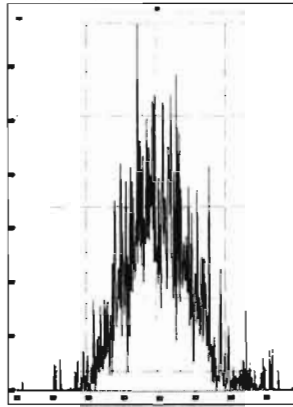


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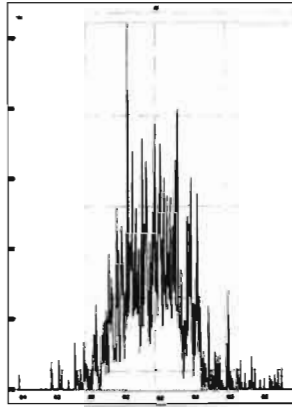
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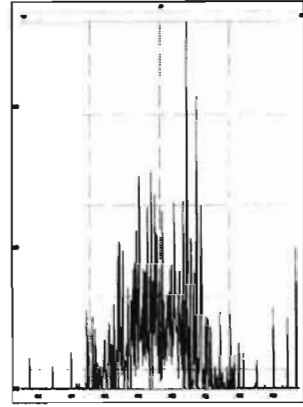
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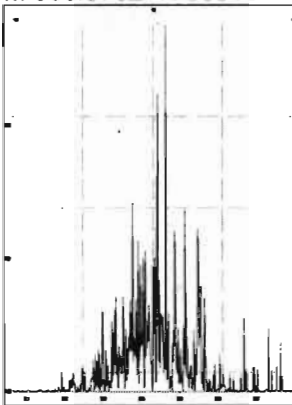
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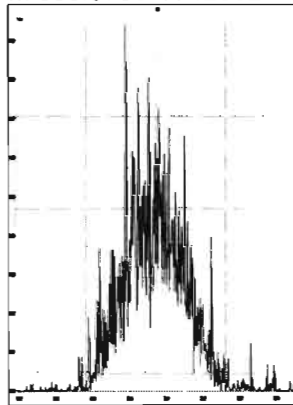
M 416.9760 R 201718



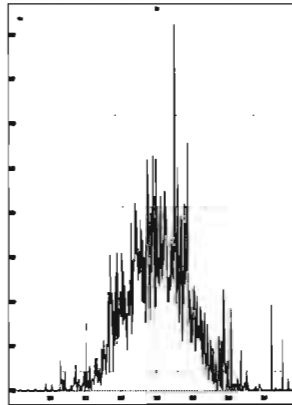
M 366.9792 R 60813



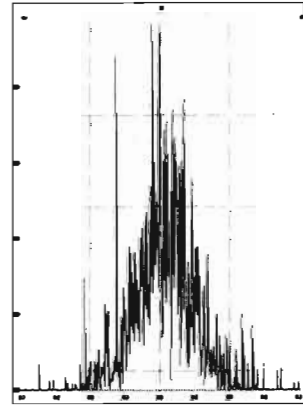
M 380.9760 R 12502



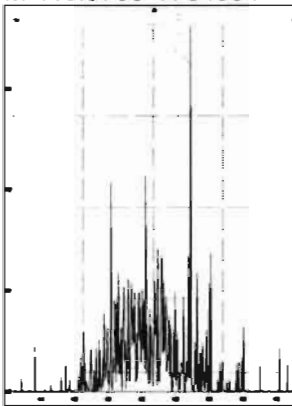
M 392.9760 R 12902



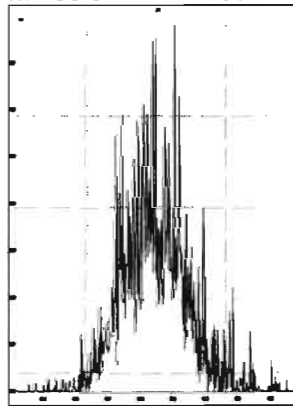
M 404.9760 R 16667



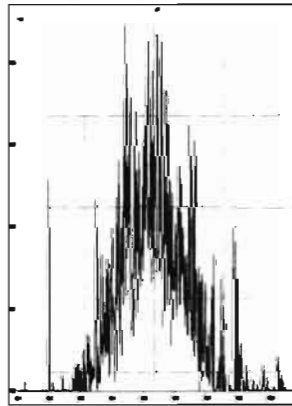
M 416.9760 R 54364



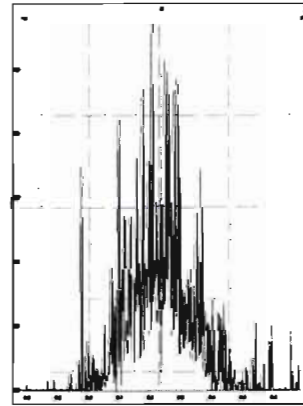
M 430.9728 R 12830



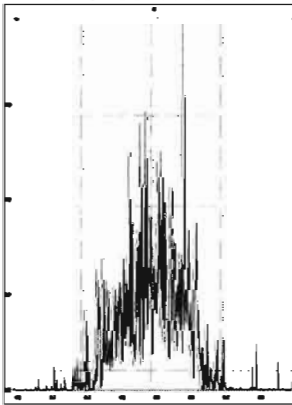
M 442.9728 R 15071



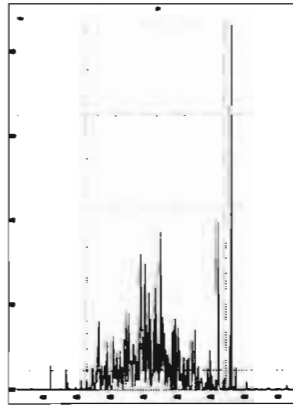
M 454.9728 R 16652



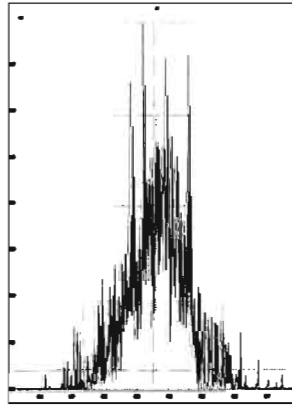
M 404.9760 R 16711



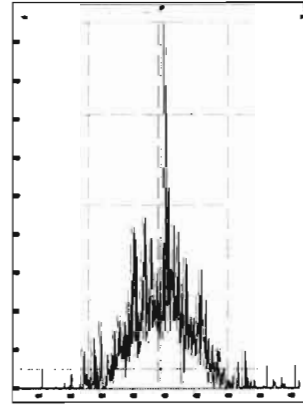
M 416.9760 R 51827



M 430.9728 R 14329

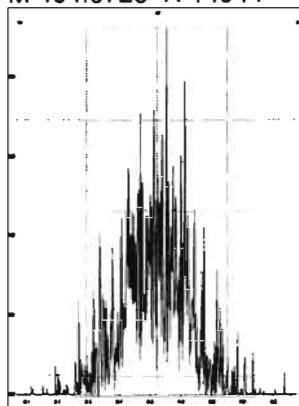


M 442.9728 R 18144

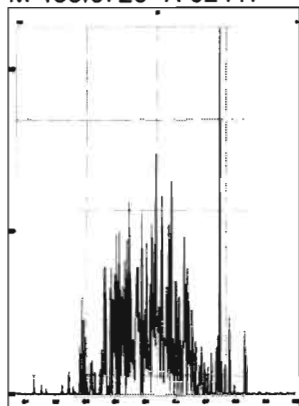


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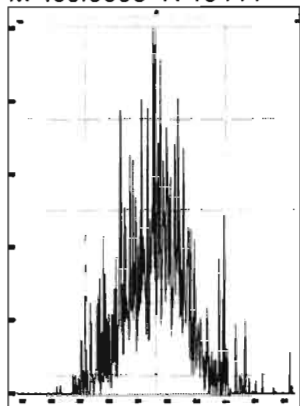
M 454.9728 R 14044



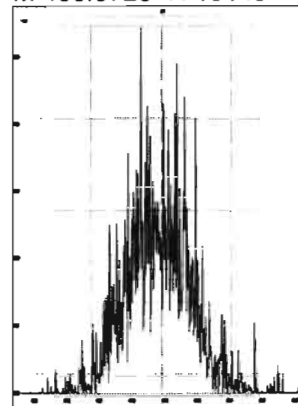
M 466.9728 R 52417



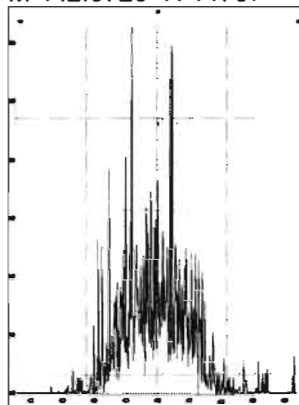
M 480.9696 R 13444



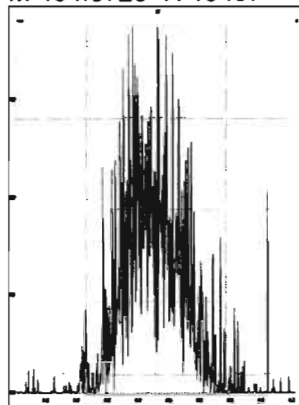
M 430.9728 R 13140



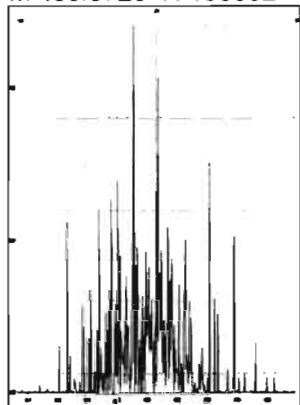
M 442.9728 R 14707



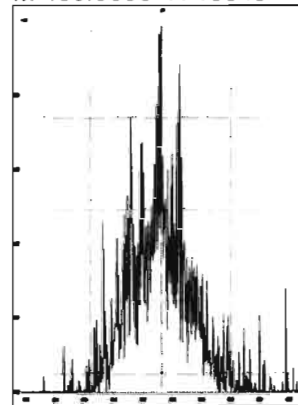
M 454.9728 R 15437



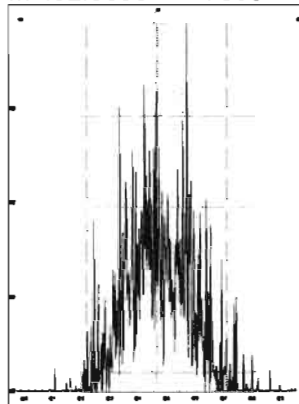
M 466.9728 R 108332



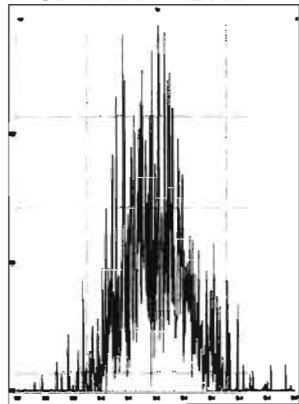
M 480.9696 R 13340



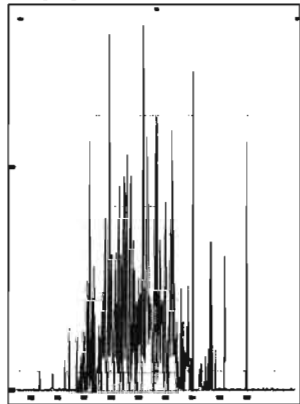
M 492.9696 R 17085



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

Last Altered: Tuesday, October 20, 2020 15:15:37 Pacific Daylight Time

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 <i>st</i>

Dataset: Untitled

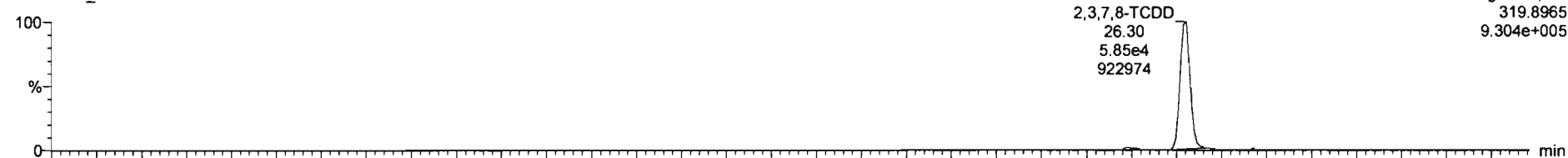
Last Altered: Tuesday, October 20, 2020 15:17:24 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

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

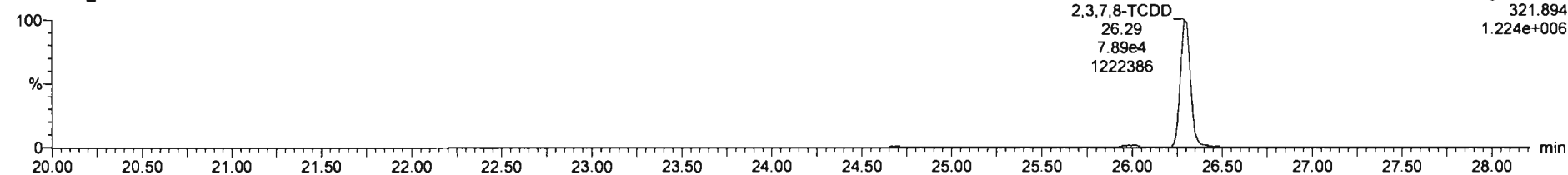
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2,3,7,8-TCDD

201020R1_8

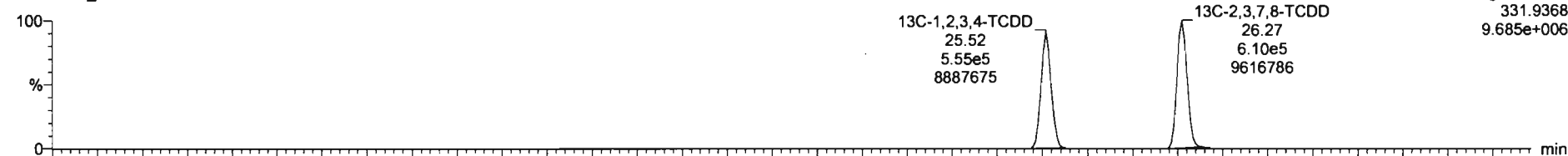


201020R1_8

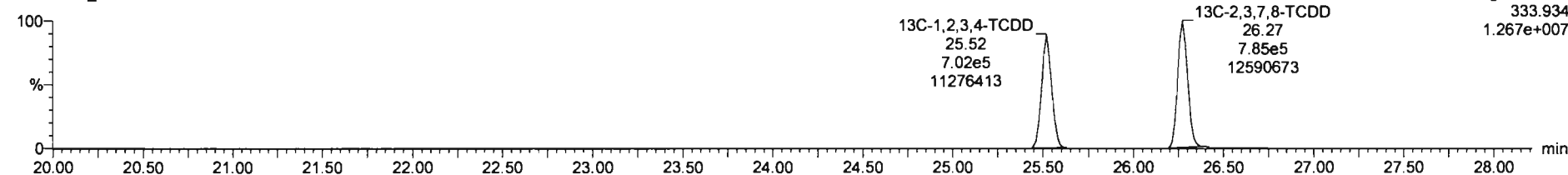


13C-2,3,7,8-TCDD

201020R1_8



201020R1_8



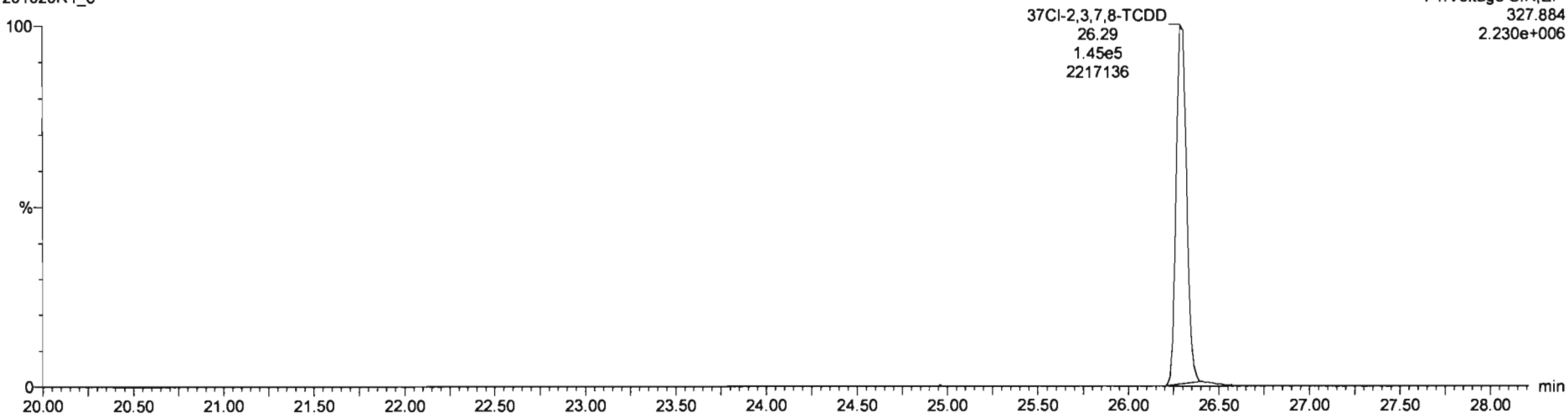
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Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

Name: 201020R1_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

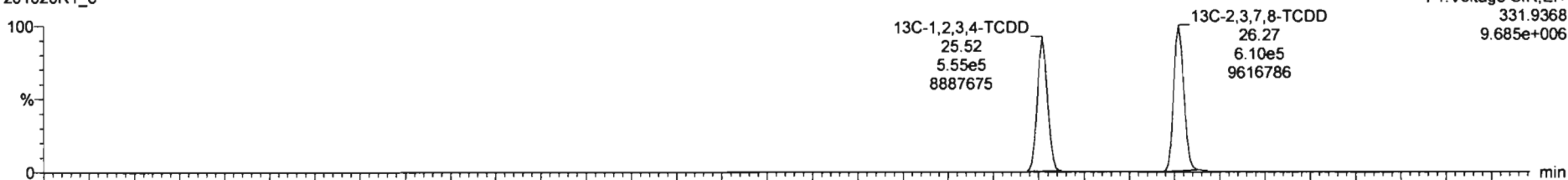
37Cl-2,3,7,8-TCDD

201020R1_8

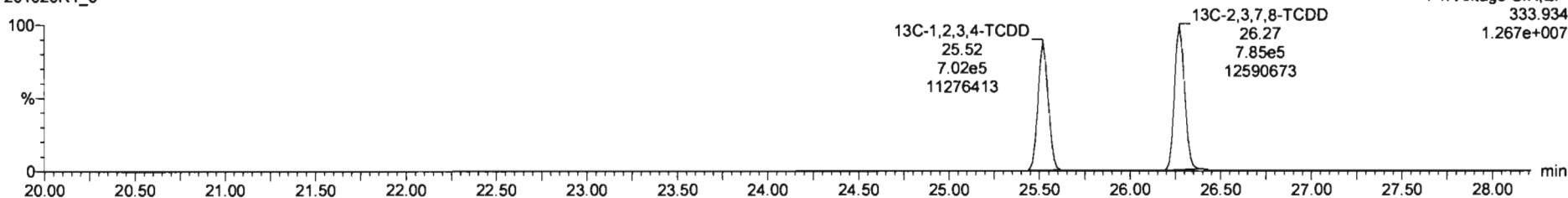


13C-1,2,3,4-TCDD

201020R1_8



201020R1_8



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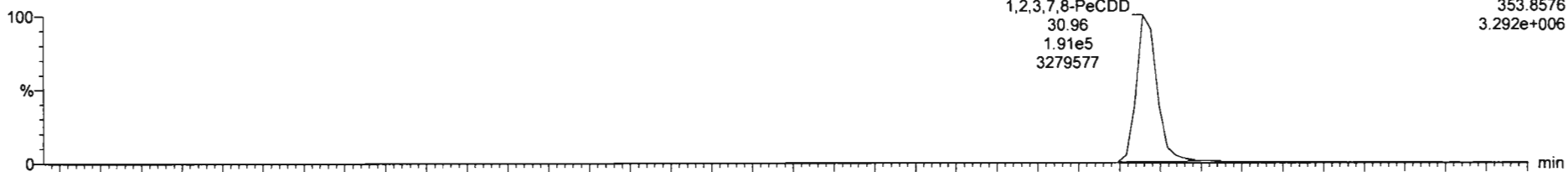
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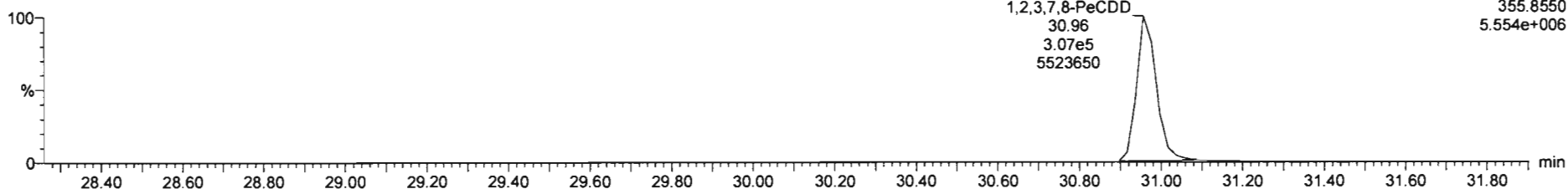
Name: 201020R1_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

1,2,3,7,8-PeCDD

201020R1_8

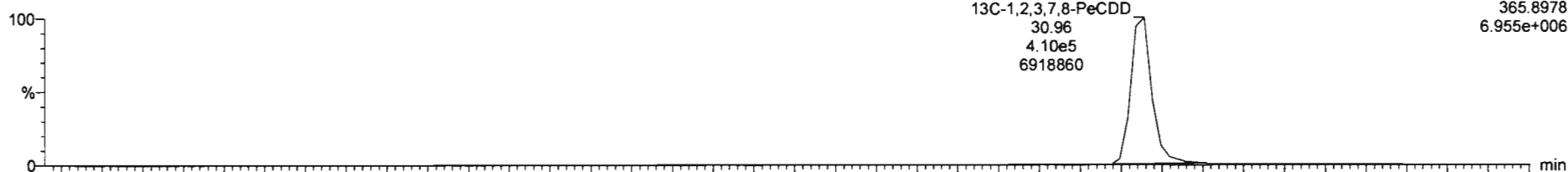


201020R1_8

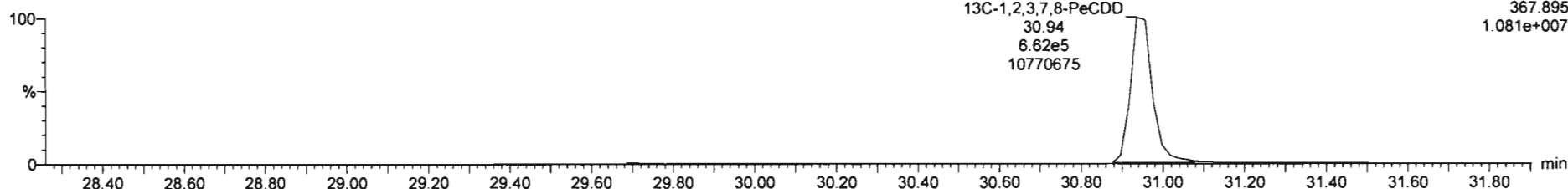


13C-1,2,3,7,8-PeCDD

201020R1_8



201020R1_8



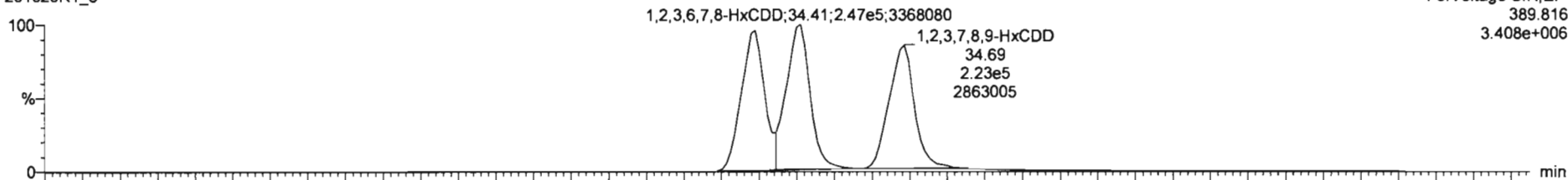
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Last Altered: Tuesday, October 20, 2020 15:17:24 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

Name: 201020R1_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

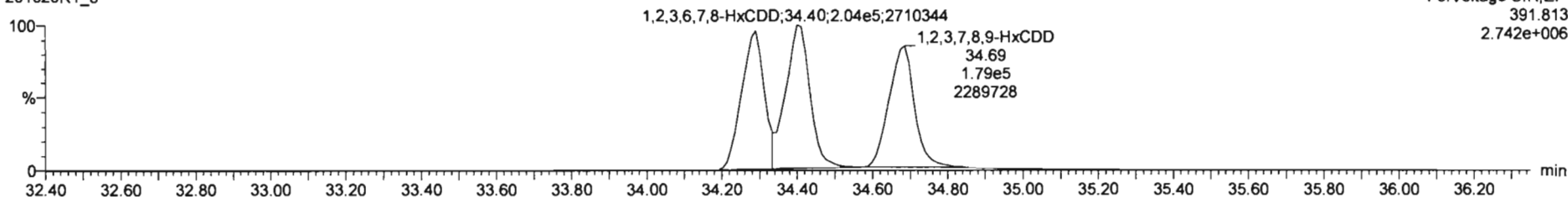
1,2,3,4,7,8-HxCDD

201020R1_8



F3:Voltage SIR, EI+
389.816
3.408e+006

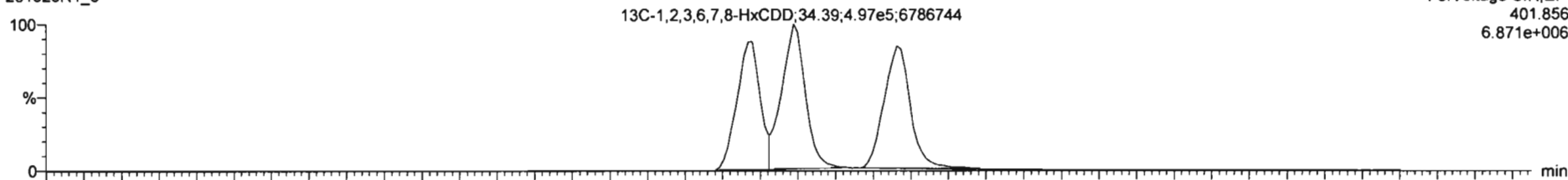
201020R1_8



F3:Voltage SIR, EI+
391.813
2.742e+006

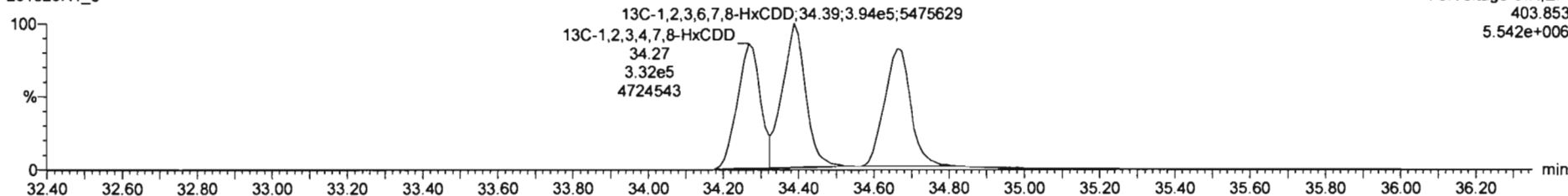
13C-1,2,3,4,7,8-HxCDD

201020R1_8



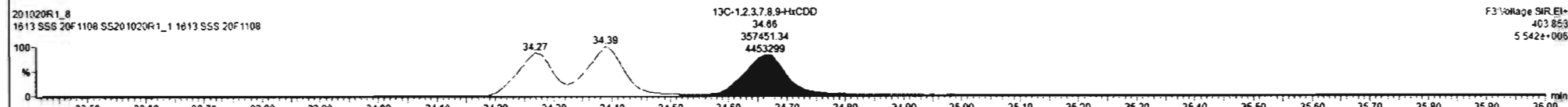
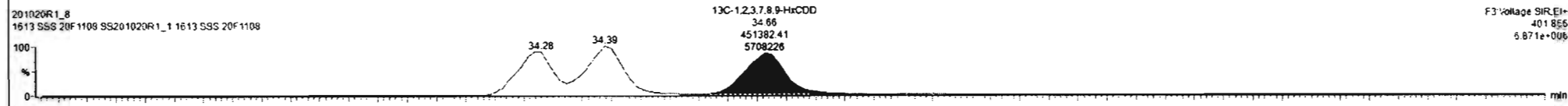
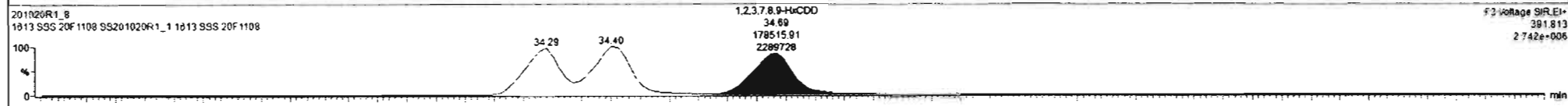
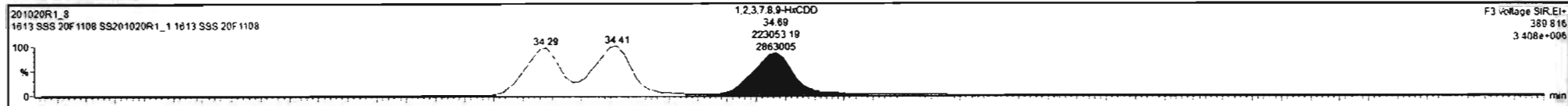
F3:Voltage SIR, EI+
401.856
6.871e+006

201020R1_8



F3:Voltage SIR, EI+
403.853
5.542e+006

#	Name	Resp	IS Resp	Pred RA	RA	s/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	1.37e5	1.49e6	0.77	0.74	NO	0.9501	26.30	26.36	NO	1.001	1.001	16.4	104	NO
2	1,2,3,7,8-PeCDD	4.87e5	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	4.62e5	8.89e5	1.24	1.25	NO	0.9345	34.67	34.69	NO	1.000	1.001	53.1	108	NO
6	1,2,3,4,6,7,8-HpCDD	3.08e5	8.75e5	1.04	1.02	NO	0.8897	38.15	38.17	NO	1.000	1.001	52.4	105	NO
7	OCDD	5.24e5	1.11e6	0.89	0.87	NO	0.8717	41.11	41.12	NO	1.000	1.000	109	109	NO
8	2,3,7,8-TCDF	1.63e5	1.90e6	0.77	0.75	NO	0.8243	25.60	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	0.9626	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	5.49e5	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	5.49e5	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	0.9986	36.76	36.77	NO	1.000	1.000	54.8	110	NO
16	1,2,3,4,7,8,9-HpCDF	3.47e5	6.01e5	1.04	1.01	NO	1.1238	38.77	38.78	NO	1.000	1.000	51.5	103	NO
17	OCDF	6.03e5	1.28e6	0.88	0.88	NO	0.8682	41.41	41.41	NO	1.000	1.000	108	108	NO
18	13C-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	0.6585	30.91	30.96	NO	1.211	1.213	99.3	99.3	NO
20	13C-1,2,3,4,7,8-HxCDD	7.58e5	1.11e6	1.24	1.26	NO	0.6997	34.28	34.28	NO	1.013	1.014	97.5	97.5	NO
21	13C-1,2,3,6,7,8-HxCDD	8.90e5	1.11e6	1.24	1.26	NO	0.6327	34.39	34.39	NO	1.017	1.017	96.3	96.3	NO



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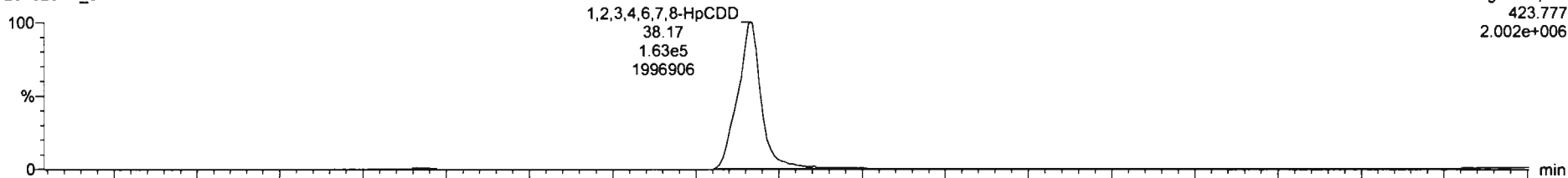
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Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

Name: 201020R1_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

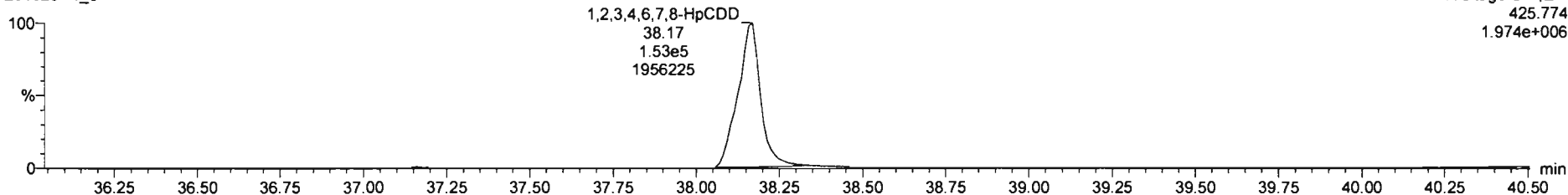
1,2,3,4,6,7,8-HpCDD

201020R1_8



F4:Voltage SIR, EI+
423.777
2.002e+006

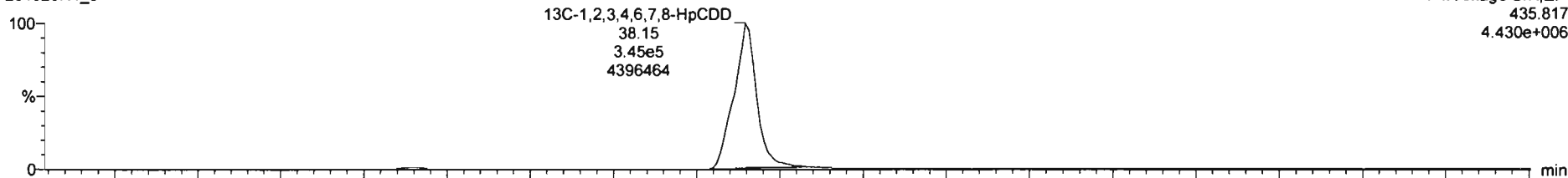
201020R1_8



F4:Voltage SIR, EI+
425.774
1.974e+006

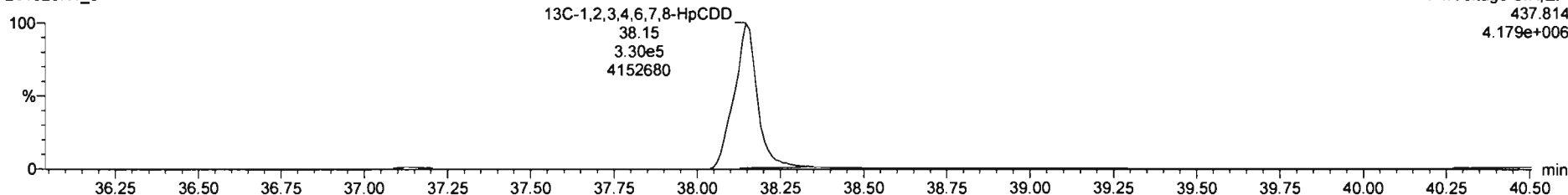
13C-1,2,3,4,6,7,8-HpCDD

201020R1_8

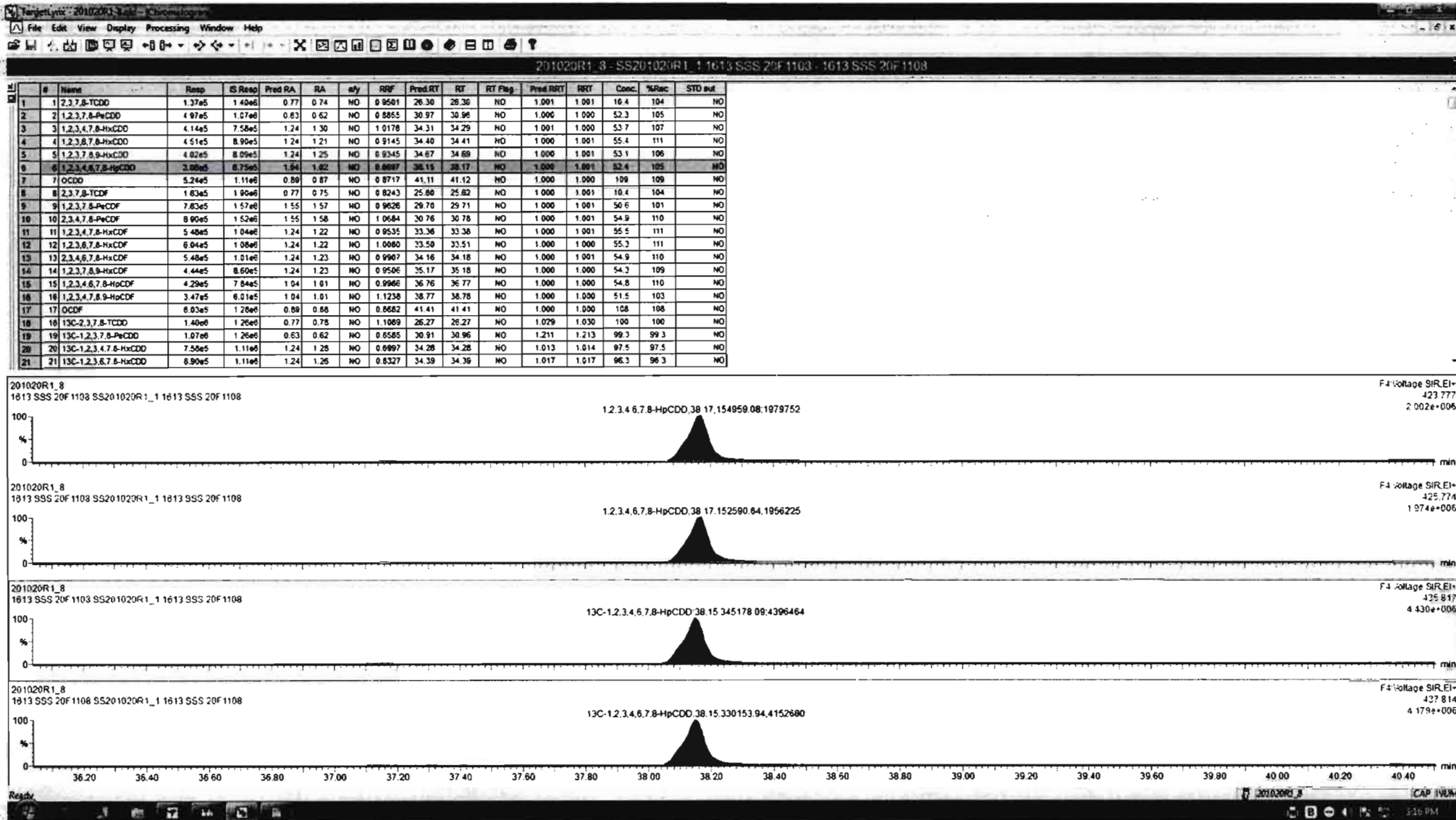


F4:Voltage SIR, EI+
435.817
4.430e+006

201020R1_8



F4:Voltage SIR, EI+
437.814
4.179e+006



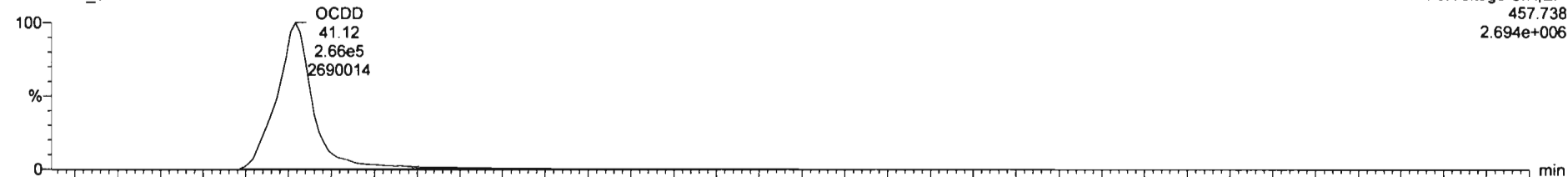
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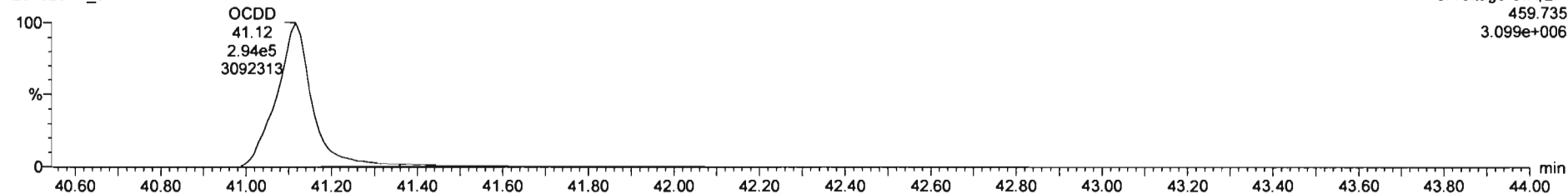
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OCDD

201020R1_8

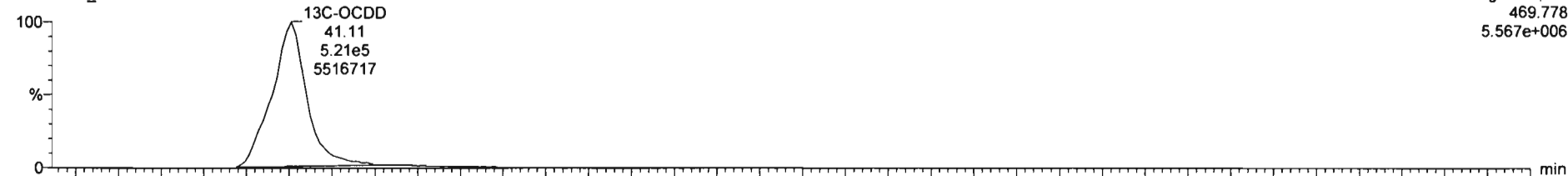


201020R1_8

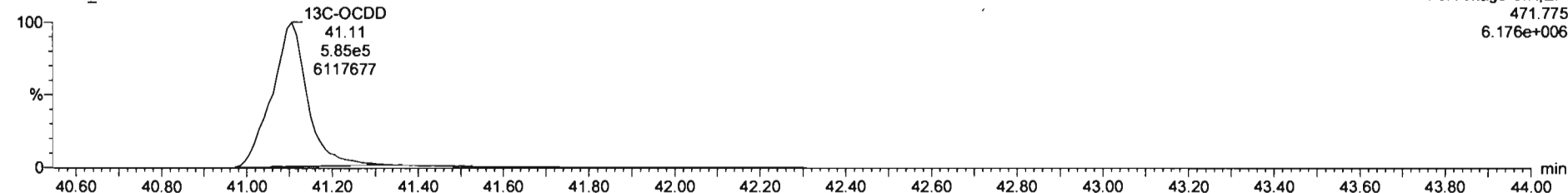


13C-OCDD

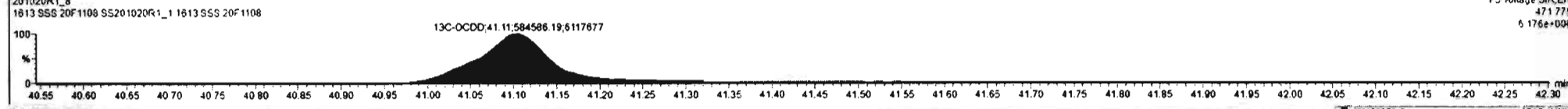
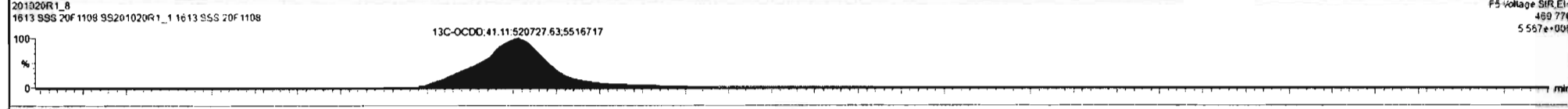
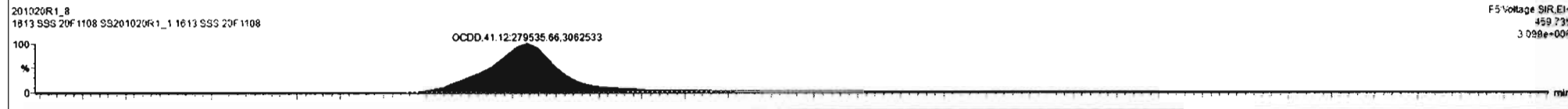
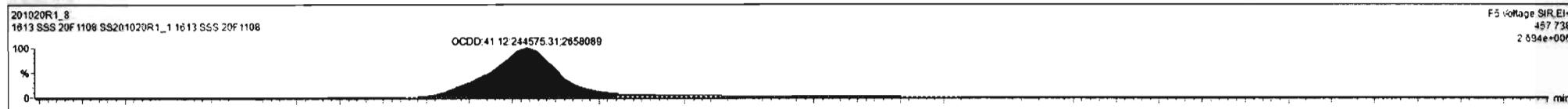
201020R1_8



201020R1_8



#	Name	Resp	IS Resp	Pred RA	RA	sfy	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	2,3,7,8-TCDD	1.37e5	1.48e6	0.77	0.74	NO	0.9501	26.36	26.36	NO	1.001	1.001	10.4	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	34.48	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	34.66	NO	1.000	1.001	53.1	106	NO
6	1,2,3,4,6,7,8-HxCDD	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	OCDD	8.26e5	1.11e6	0.86	0.87	NO	0.8717	41.11	41.12	NO	1.000	1.000	100	100	NO
8	2,3,7,8-TCDF	1.63e5	1.90e6	0.77	0.75	NO	0.8243	25.60	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	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	33.36	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	1.0060	33.50	33.51	NO	1.000	1.000	55.3	111	NO
13	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	0.9806	36.76	36.77	NO	1.000	1.000	54.8	110	NO
16	1,2,3,4,7,8,9-HpCDF	3.47e5	6.01e5	1.04	1.01	NO	1.1238	38.77	38.78	NO	1.000	1.000	51.5	103	NO
17	OCDF	6.03e5	1.28e6	0.89	0.88	NO	0.6682	41.41	41.41	NO	1.000	1.000	100	100	NO
18	13C-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	0.6585	30.91	30.96	NO	1.211	1.213	98.3	99.3	NO
20	13C-1,2,3,4,7,8-HxCDD	7.58e5	1.11e6	1.24	1.26	NO	0.6997	34.26	34.28	NO	1.013	1.014	97.5	97.5	NO
21	13C-1,2,3,6,7,8-HxCDD	8.90e5	1.11e6	1.24	1.26	NO	0.8327	34.39	34.39	NO	1.017	1.017	96.3	96.3	NO



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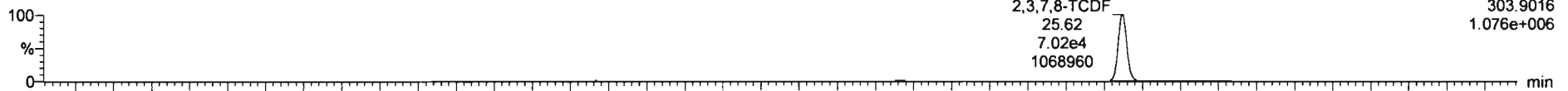
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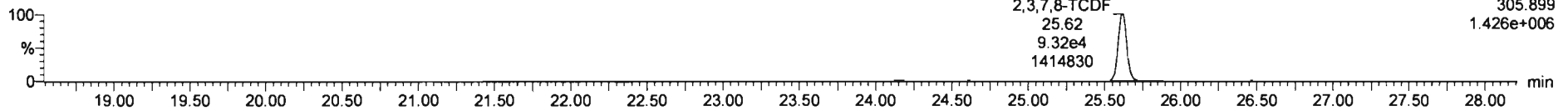
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2,3,7,8-TCDF

201020R1_8

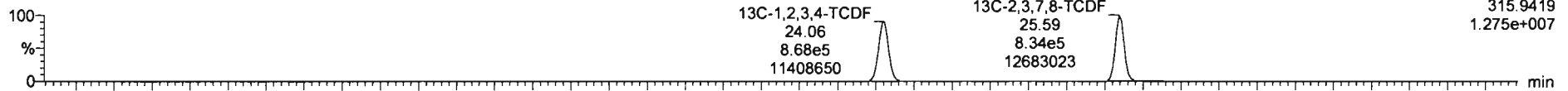


201020R1_8

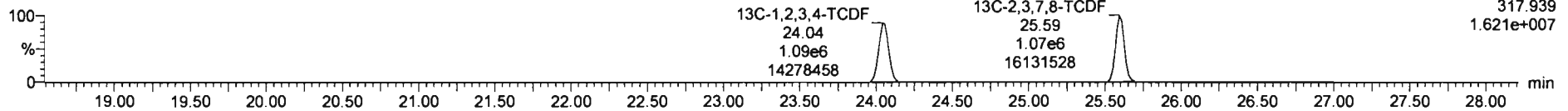


13C-2,3,7,8-TCDF

201020R1_8

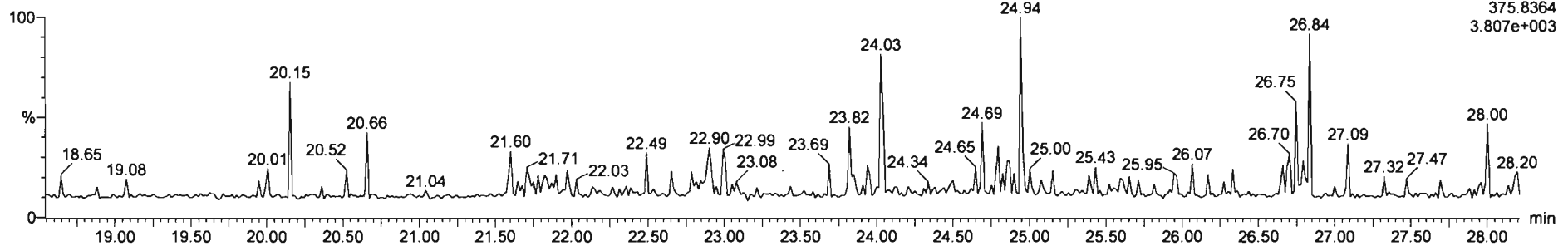


201020R1_8



DPE1

201020R1_8



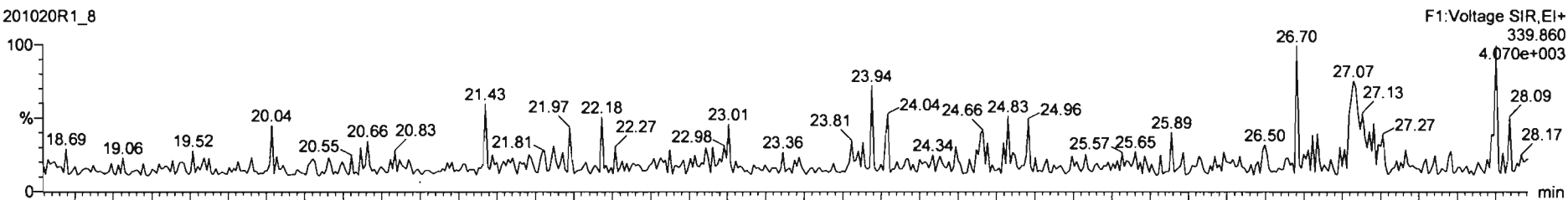
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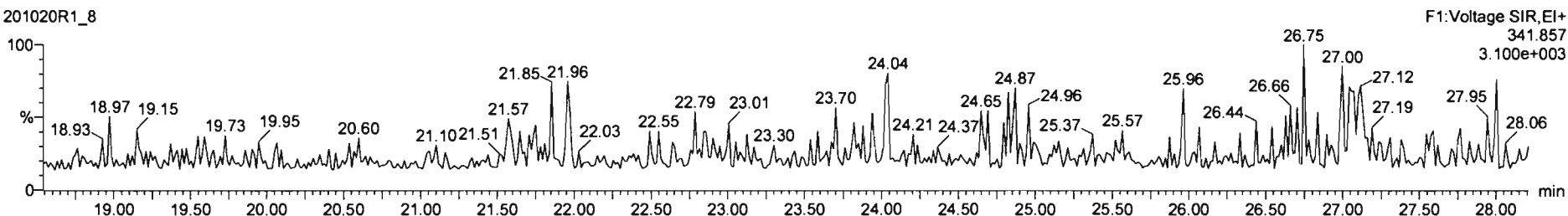
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1st Func. Penta-Furans

201020R1_8

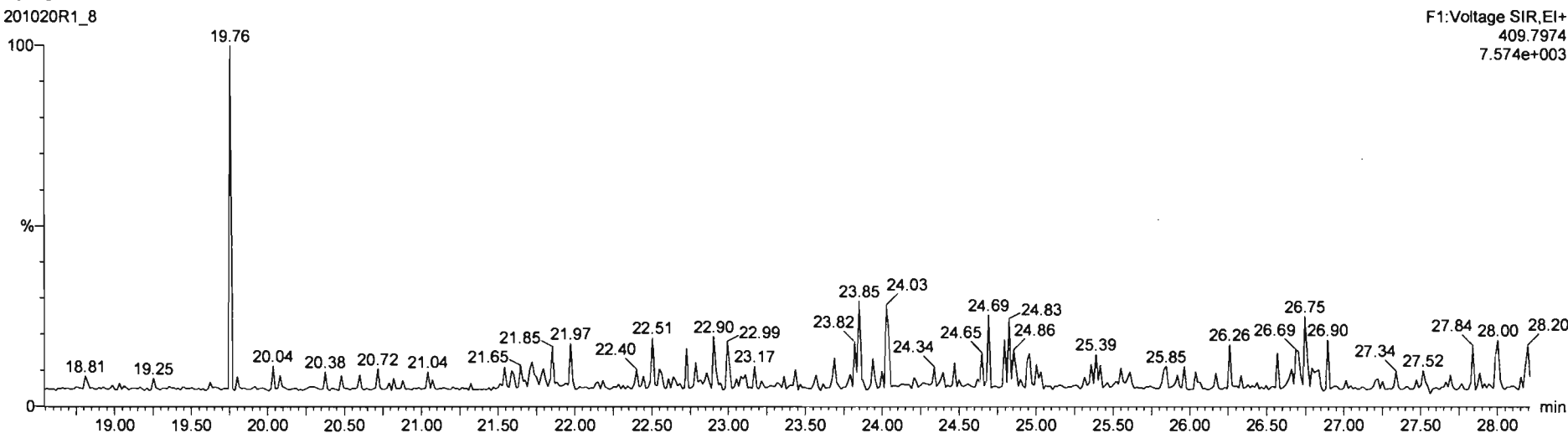


201020R1_8



DPE6

201020R1_8



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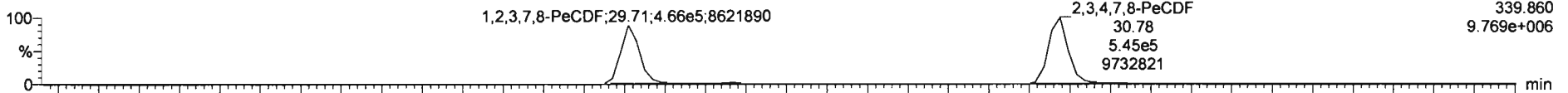
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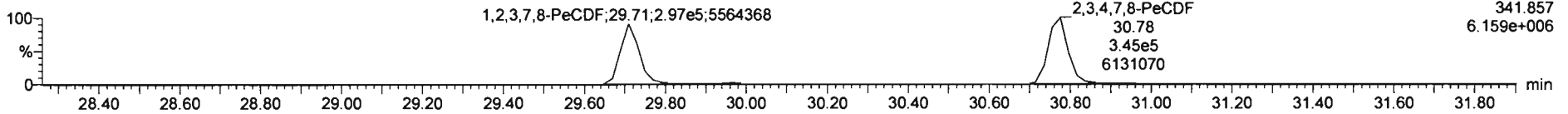
1,2,3,7,8-PeCDF

201020R1_8



F2:Voltage SIR,El+
339.860
9.769e+006

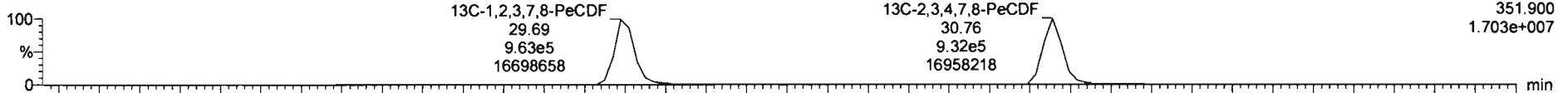
201020R1_8



F2:Voltage SIR,El+
341.857
6.159e+006

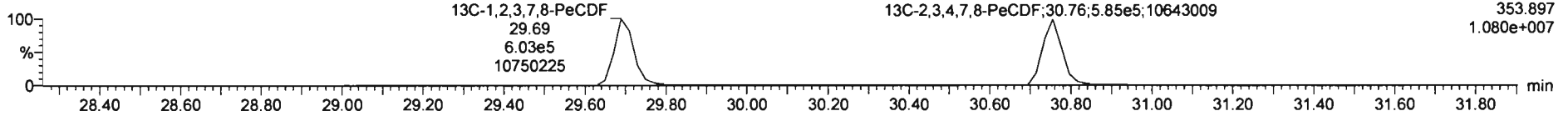
13C-1,2,3,7,8-PeCDF

201020R1_8



F2:Voltage SIR,El+
351.900
1.703e+007

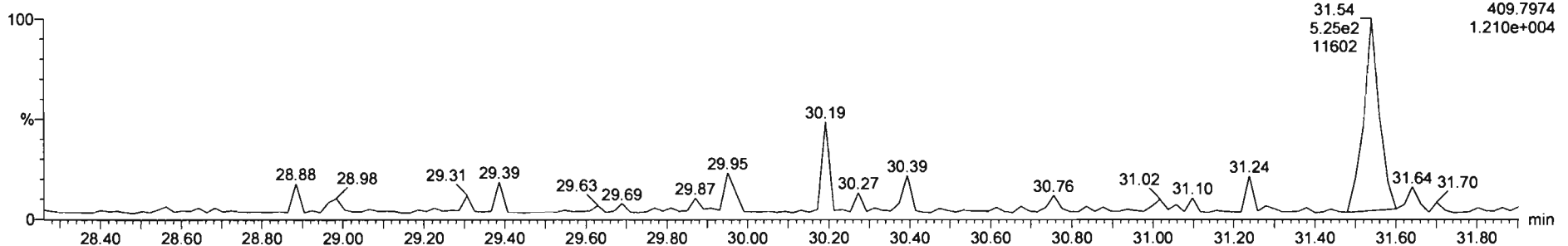
201020R1_8



F2:Voltage SIR,El+
353.897
1.080e+007

DPE2

201020R1_8



F2:Voltage SIR,El+
409.7974
1.210e+004

Dataset: Untitled

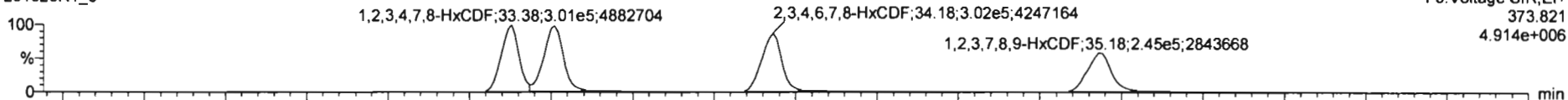
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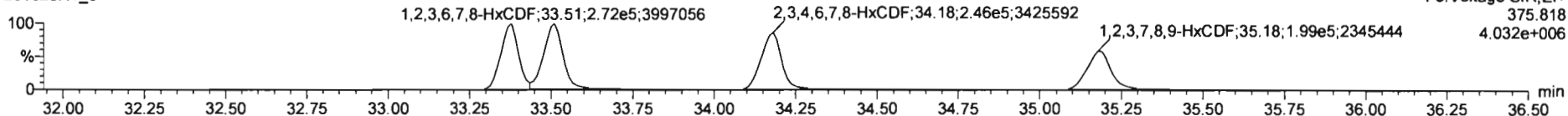
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1,2,3,4,7,8-HxCDF

201020R1_8

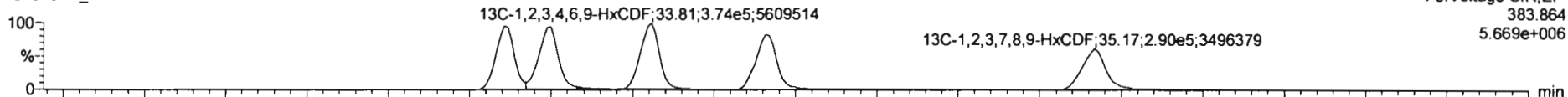


201020R1_8

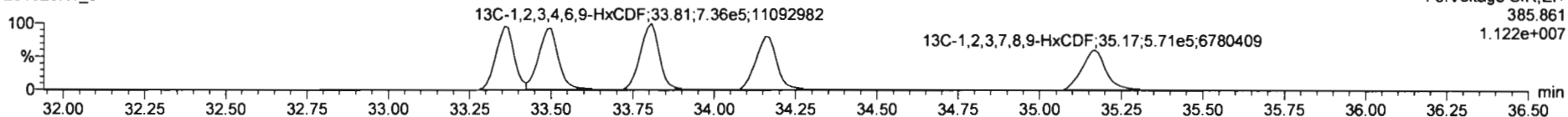


13C-1,2,3,4,7,8-HxCDF

201020R1_8

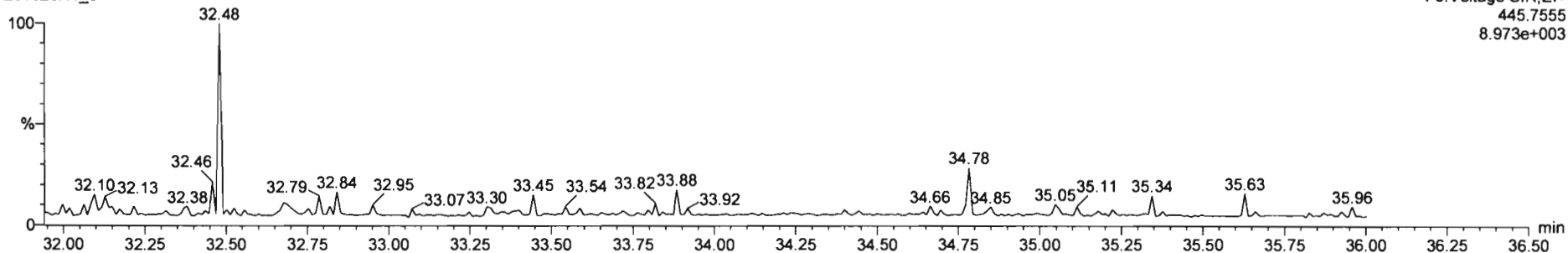


201020R1_8



DPE3

201020R1_8



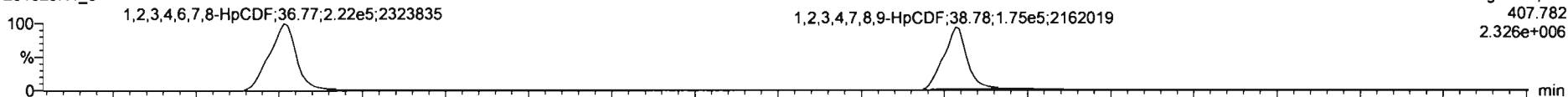
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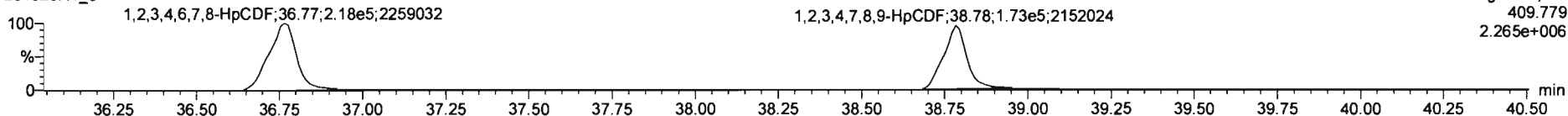
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1,2,3,4,6,7,8-HpCDF

201020R1_8

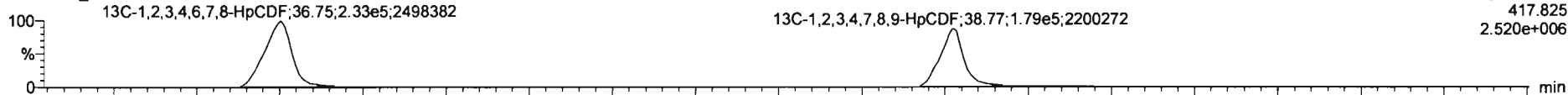


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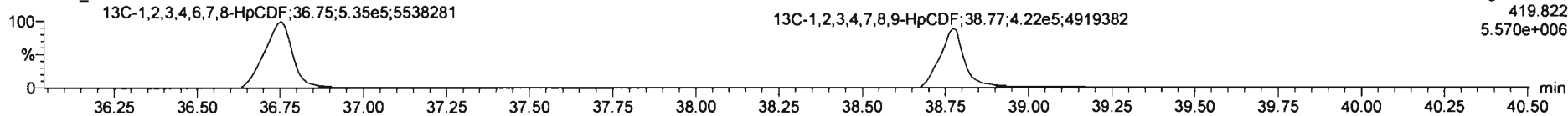


13C-1,2,3,4,6,7,8-HpCDF

201020R1_8

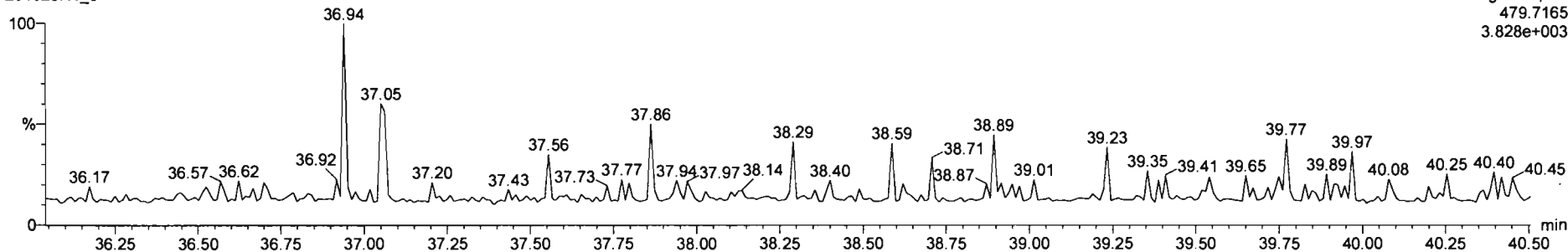


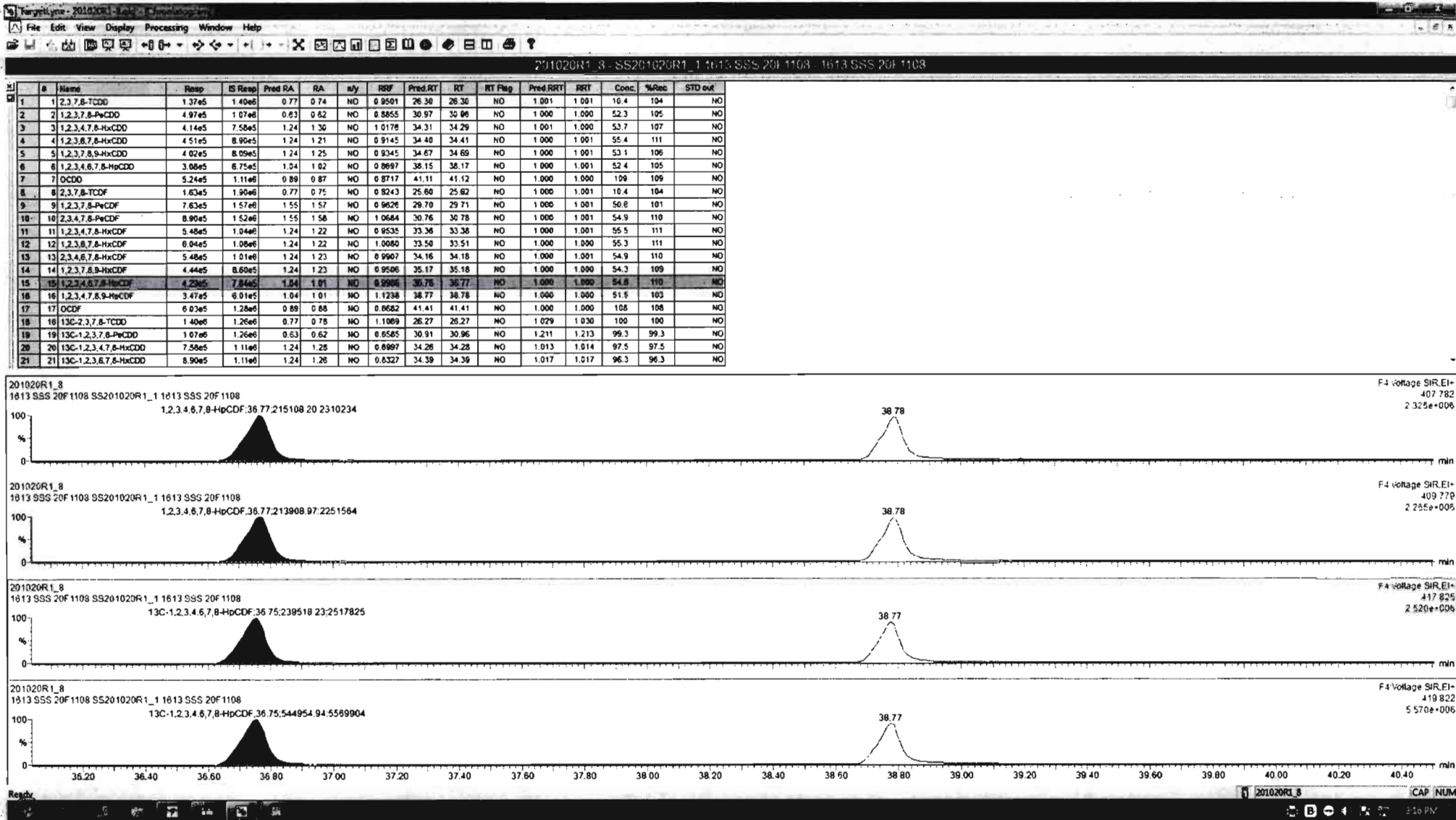
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DPE4

201020R1_8





Dataset: Untitled

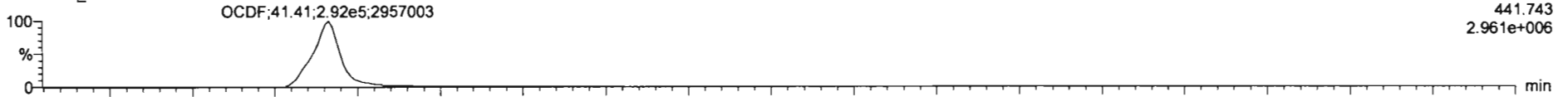
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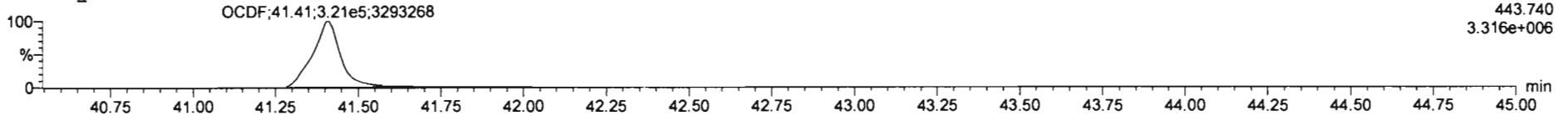
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OCDF

201020R1_8

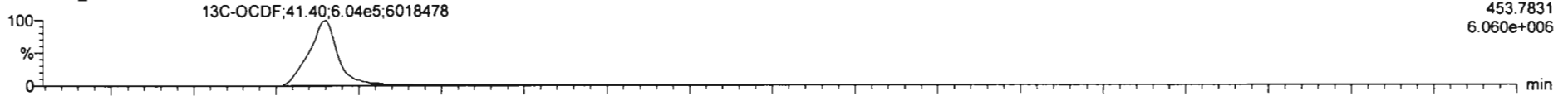


201020R1_8

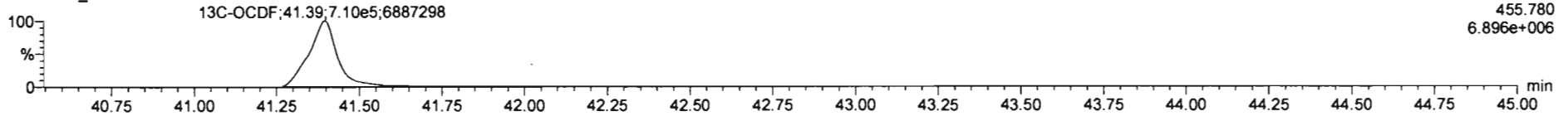


13C-OCDF

201020R1_8

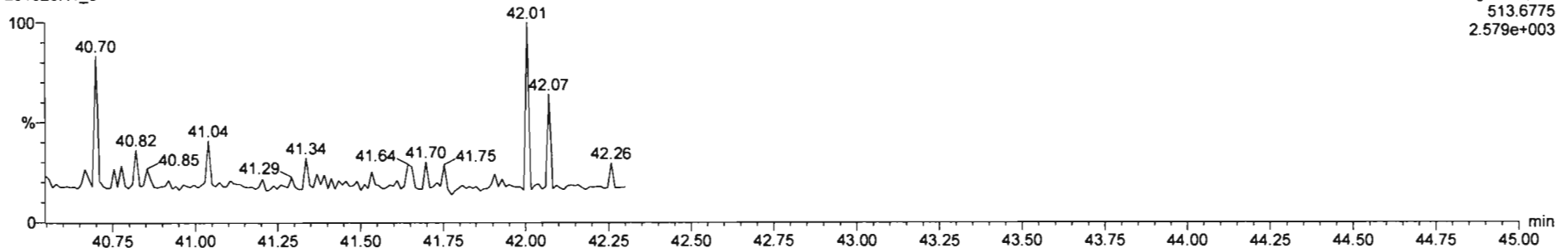


201020R1_8

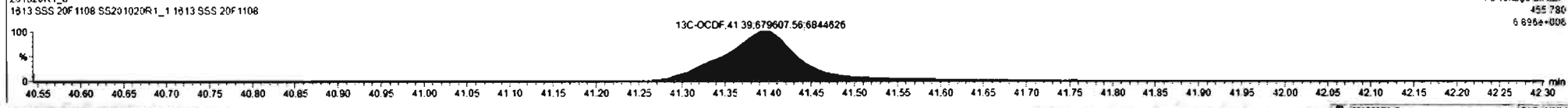
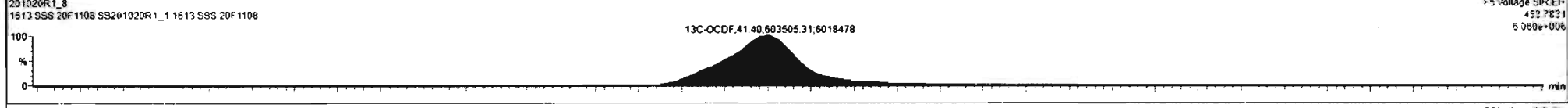
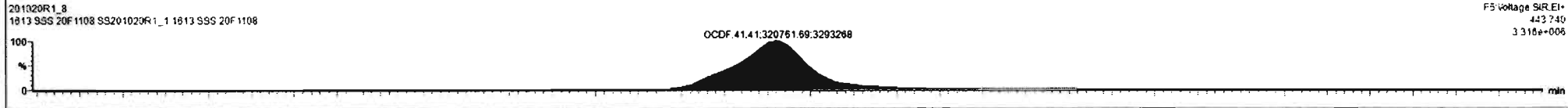
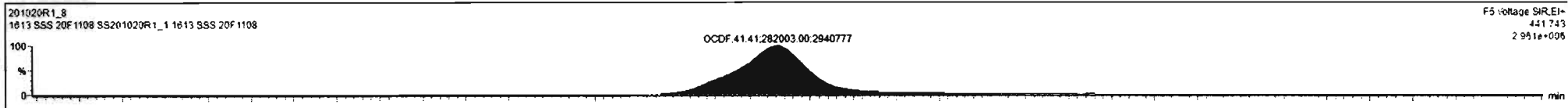


DPE5

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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

Last Altered: Tuesday, October 20, 2020 15:17:24 Pacific Daylight Time
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

