



March 26, 2020

Vista Work Order No. 1903827

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

Dear Ms. Peterson,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on October 25, 2019 under your Project Name 'Gasco PDI'.

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

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. 1903827

Case Narrative

Sample Condition on Receipt:

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

Analytical Notes:

EPA Method 1613B

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

Holding Times

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

Quality Control

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

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with each preparation batch. No analytes were detected above 1/2 the quantitation limit in the Method Blanks. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries outside the method acceptance criteria are listed in the table below:

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
1903827-02	PDI-057SC-B-02-04-191023	EPA Method 1613B	13C-1,2,3,4,7,8-HxCDD	H	24.6
1903827-02	PDI-057SC-B-02-04-191023	EPA Method 1613B	13C-1,2,3,6,7,8-HxCDD	H	24.2
1903827-02	PDI-057SC-B-02-04-191023	EPA Method 1613B	13C-1,2,3,7,8,9-HxCDD	H	24.6
1903827-02	PDI-057SC-B-02-04-191023	EPA Method 1613B	13C-1,2,3,6,7,8-HxCDF	H	25.0
1903827-02	PDI-057SC-B-02-04-191023	EPA Method 1613B	13C-2,3,4,6,7,8-HxCDF	H	25.2
1903827-02	PDI-057SC-B-02-04-191023	EPA Method 1613B	13C-1,2,3,7,8,9-HxCDF	H	25.8
1903827-02	PDI-057SC-B-02-04-191023	EPA Method 1613B	13C-1,2,3,4,6,7,8-HpCDF	H	25.8
1903827-03	PDI-057SC-B-04-06-191023	EPA Method 1613B	13C-1,2,3,4,7,8-HxCDD	H	26.0
1903827-03	PDI-057SC-B-04-06-191023	EPA Method 1613B	13C-1,2,3,6,7,8-HxCDD	H	25.2
1903827-03	PDI-057SC-B-04-06-191023	EPA Method 1613B	13C-1,2,3,7,8,9-HxCDD	H	26.5
1903827-03	PDI-057SC-B-04-06-191023	EPA Method 1613B	13C-2,3,4,6,7,8-HxCDF	H	26.9
1903827-03	PDI-057SC-B-04-06-191023	EPA Method 1613B	13C-1,2,3,7,8,9-HxCDF	H	27.3
1903827-03	PDI-057SC-B-04-06-191023	EPA Method 1613B	13C-1,2,3,4,6,7,8-HpCDF	H	26.8

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1903827-01	PDI-057SC-B-00-02-191023	23-Oct-19 12:46	25-Oct-19 08:40	Amber Glass, 120 mL
1903827-02	PDI-057SC-B-02-04-191023	23-Oct-19 12:46	25-Oct-19 08:40	Amber Glass, 120 mL
1903827-03	PDI-057SC-B-04-06-191023	23-Oct-19 12:46	25-Oct-19 08:40	Amber Glass, 120 mL
1903827-04	PDI-057SC-B-06-08-191023	23-Oct-19 12:46	25-Oct-19 08:40	Amber Glass, 250mL
1903827-05	PDI-062SC-B-00-02-191023	23-Oct-19 09:38	25-Oct-19 08:40	Amber Glass, 120 mL
1903827-06	PDI-062SC-B-02-04-191023	23-Oct-19 09:38	25-Oct-19 08:40	Amber Glass, 120 mL
1903827-07	PDI-062SC-B-04-06-191023	23-Oct-19 09:38	25-Oct-19 08:40	Amber Glass, 120 mL
1903827-08	PDI-062SC-B-06-08-191023	23-Oct-19 09:38	25-Oct-19 08:40	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid	QC Batch: B0A0056	Lab Sample: B0A0056-BLK1			Date Analyzed: 02-Feb-20 12:44 Column: ZB-5MS			
Sample Size: 10.0 g	Date Extracted: 09-Jan-2020 8:08							
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0658			IS 13C-2,3,7,8-TCDD	94.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0645			13C-1,2,3,7,8-PeCDD	94.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0572			13C-1,2,3,4,7,8-HxCDD	82.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0574			13C-1,2,3,6,7,8-HxCDD	79.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0611			13C-1,2,3,7,8,9-HxCDD	81.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.0972			13C-1,2,3,4,6,7,8-HpCDD	80.2	23 - 140	
OCDD	0.246			J	13C-OCDD	66.7	17 - 157	
2,3,7,8-TCDF	ND	0.0472			13C-2,3,7,8-TCDF	85.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0439			13C-1,2,3,7,8-PeCDF	89.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0399			13C-2,3,4,7,8-PeCDF	89.6	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0407			13C-1,2,3,4,7,8-HxCDF	92.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0406			13C-1,2,3,6,7,8-HxCDF	89.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0442			13C-2,3,4,6,7,8-HxCDF	86.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0830		13C-1,2,3,7,8,9-HxCDF	86.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0667			13C-1,2,3,4,6,7,8-HpCDF	85.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0732			13C-1,2,3,4,7,8,9-HpCDF	81.2	26 - 138	
OCDF	ND	0.0935			13C-OCDF	68.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	96.8	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 0.000074			
TOTALS								
Total TCDD	ND	0.0658						
Total PeCDD	ND	0.0645						
Total HxCDD	ND	0.0611						
Total HpCDD	ND	0.0972						
Total TCDF	ND	0.0472						
Total PeCDF	ND	0.0439						
Total HxCDF	ND		0.0830					
Total HpCDF	ND	0.0732						

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: B0A0056 Date Extracted: 09-Jan-2020 8:08		Lab Sample: B0A0056-BS1 Date Analyzed: 02-Feb-20 11:11 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	20.1	20.0	100	67 - 158	IS 13C-2,3,7,8-TCDD	80.5	20 - 175
1,2,3,7,8-PeCDD	98.0	100	98.0	70 - 142	13C-1,2,3,7,8-PeCDD	78.0	21 - 227
1,2,3,4,7,8-HxCDD	104	100	104	70 - 164	13C-1,2,3,4,7,8-HxCDD	74.8	21 - 193
1,2,3,6,7,8-HxCDD	106	100	106	76 - 134	13C-1,2,3,6,7,8-HxCDD	73.9	25 - 163
1,2,3,7,8,9-HxCDD	106	100	106	64 - 162	13C-1,2,3,7,8,9-HxCDD	72.8	21 - 193
1,2,3,4,6,7,8-HpCDD	103	100	103	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	69.2	26 - 166
OCDD	195	200	97.7	78 - 144	13C-OCDD	60.1	13 - 199
2,3,7,8-TCDF	21.5	20.0	107	75 - 158	13C-2,3,7,8-TCDF	77.5	22 - 152
1,2,3,7,8-PeCDF	104	100	104	80 - 134	13C-1,2,3,7,8-PeCDF	80.4	21 - 192
2,3,4,7,8-PeCDF	103	100	103	68 - 160	13C-2,3,4,7,8-PeCDF	82.5	13 - 328
1,2,3,4,7,8-HxCDF	108	100	108	72 - 134	13C-1,2,3,4,7,8-HxCDF	80.0	19 - 202
1,2,3,6,7,8-HxCDF	110	100	110	84 - 130	13C-1,2,3,6,7,8-HxCDF	79.6	21 - 159
2,3,4,6,7,8-HxCDF	109	100	109	70 - 156	13C-2,3,4,6,7,8-HxCDF	78.7	22 - 176
1,2,3,7,8,9-HxCDF	109	100	109	78 - 130	13C-1,2,3,7,8,9-HxCDF	78.3	17 - 205
1,2,3,4,6,7,8-HpCDF	109	100	109	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	75.2	21 - 158
1,2,3,4,7,8,9-HpCDF	111	100	111	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	73.1	20 - 186
OCDF	221	200	110	63 - 170	13C-OCDF	59.7	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	90.0	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0C0209 Date Extracted: 17-Mar-2020 10:39		Lab Sample: B0C0209-BLK1 Date Analyzed: 18-Mar-20 21:02 Column: ZB-5MS				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0922			IS 13C-2,3,7,8-TCDD	80.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0728			13C-1,2,3,7,8-PeCDD	84.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0698			13C-1,2,3,4,7,8-HxCDD	71.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0693			13C-1,2,3,6,7,8-HxCDD	70.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0799			13C-1,2,3,7,8,9-HxCDD	72.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.130			13C-1,2,3,4,6,7,8-HpCDD	76.6	23 - 140	
OCDD	0.451			J	13C-OCDD	66.2	17 - 157	
2,3,7,8-TCDF	ND	0.0540			13C-2,3,7,8-TCDF	71.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0445			13C-1,2,3,7,8-PeCDF	74.8	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0429			13C-2,3,4,7,8-PeCDF	73.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0414			13C-1,2,3,4,7,8-HxCDF	78.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0401			13C-1,2,3,6,7,8-HxCDF	78.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0398			13C-2,3,4,6,7,8-HxCDF	77.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0574			13C-1,2,3,7,8,9-HxCDF	75.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0613			13C-1,2,3,4,6,7,8-HpCDF	74.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0772			13C-1,2,3,4,7,8,9-HpCDF	77.0	26 - 138	
OCDF	ND	0.144			13C-OCDF	68.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	77.3	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 0.000135			
TOTALS								
Total TCDD	ND	0.0922						
Total PeCDD	ND	0.0728						
Total HxCDD	ND	0.0799						
Total HpCDD	ND	0.130						
Total TCDF	ND	0.0540						
Total PeCDF	ND	0.0445						
Total HxCDF	ND	0.0574						
Total HpCDF	ND	0.0772						

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: B0C0209 Date Extracted: 17-Mar-2020 10:39		Lab Sample: B0C0209-BS1 Date Analyzed: 18-Mar-20 17:52 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	17.2	20.0	85.8	67 - 158	IS 13C-2,3,7,8-TCDD	77.4	20 - 175
1,2,3,7,8-PeCDD	90.7	100	90.7	70 - 142	13C-1,2,3,7,8-PeCDD	89.0	21 - 227
1,2,3,4,7,8-HxCDD	92.8	100	92.8	70 - 164	13C-1,2,3,4,7,8-HxCDD	77.9	21 - 193
1,2,3,6,7,8-HxCDD	93.4	100	93.4	76 - 134	13C-1,2,3,6,7,8-HxCDD	76.4	25 - 163
1,2,3,7,8,9-HxCDD	94.7	100	94.7	64 - 162	13C-1,2,3,7,8,9-HxCDD	80.3	21 - 193
1,2,3,4,6,7,8-HpCDD	92.7	100	92.7	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	86.3	26 - 166
OCDD	176	200	87.9	78 - 144	13C-OCDD	73.3	13 - 199
2,3,7,8-TCDF	18.0	20.0	90.2	75 - 158	13C-2,3,7,8-TCDF	65.8	22 - 152
1,2,3,7,8-PeCDF	92.7	100	92.7	80 - 134	13C-1,2,3,7,8-PeCDF	74.0	21 - 192
2,3,4,7,8-PeCDF	93.3	100	93.3	68 - 160	13C-2,3,4,7,8-PeCDF	75.0	13 - 328
1,2,3,4,7,8-HxCDF	92.9	100	92.9	72 - 134	13C-1,2,3,4,7,8-HxCDF	81.2	19 - 202
1,2,3,6,7,8-HxCDF	95.5	100	95.5	84 - 130	13C-1,2,3,6,7,8-HxCDF	82.2	21 - 159
2,3,4,6,7,8-HxCDF	93.3	100	93.3	70 - 156	13C-2,3,4,6,7,8-HxCDF	82.5	22 - 176
1,2,3,7,8,9-HxCDF	90.6	100	90.6	78 - 130	13C-1,2,3,7,8,9-HxCDF	84.4	17 - 205
1,2,3,4,6,7,8-HpCDF	89.8	100	89.8	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	86.0	21 - 158
1,2,3,4,7,8,9-HpCDF	91.0	100	91.0	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	86.4	20 - 186
OCDF	186	200	93.1	63 - 170	13C-OCDF	74.9	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	71.6	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-057SC-B-00-02-191023 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903827-01 Date Received: 25-Oct-2019 8:40
Project: Gasco PDI	Sample Size: 19.0 g	QC Batch: B0A0056 Date Extracted: 09-Jan-2020 8:08
Date Collected: 23-Oct-2019 12:46	% Solids: 53.1	Date Analyzed : 03-Feb-20 02:12 Column: ZB-5MS 12-Mar-20 04:22 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	2.66				IS 13C-2,3,7,8-TCDD	76.9	25 - 164	
1,2,3,7,8-PeCDD	3.17				13C-1,2,3,7,8-PeCDD	79.5	25 - 181	
1,2,3,4,7,8-HxCDD	3.84				13C-1,2,3,4,7,8-HxCDD	70.6	32 - 141	
1,2,3,6,7,8-HxCDD	19.9				13C-1,2,3,6,7,8-HxCDD	72.1	28 - 130	
1,2,3,7,8,9-HxCDD	7.93				13C-1,2,3,7,8,9-HxCDD	72.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	806				13C-1,2,3,4,6,7,8-HpCDD	70.8	23 - 140	
OCDD	10900			D, B	13C-OCDD	34.1	17 - 157	D
2,3,7,8-TCDF	263				13C-2,3,7,8-TCDF	72.7	24 - 169	
1,2,3,7,8-PeCDF	311				13C-1,2,3,7,8-PeCDF	80.0	24 - 185	
2,3,4,7,8-PeCDF	153				13C-2,3,4,7,8-PeCDF	72.6	21 - 178	
1,2,3,4,7,8-HxCDF	543				13C-1,2,3,4,7,8-HxCDF	79.2	26 - 152	
1,2,3,6,7,8-HxCDF	140				13C-1,2,3,6,7,8-HxCDF	72.4	26 - 123	
2,3,4,6,7,8-HxCDF	35.6				13C-2,3,4,6,7,8-HxCDF	74.1	28 - 136	
1,2,3,7,8,9-HxCDF	49.2				13C-1,2,3,7,8,9-HxCDF	82.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	319				13C-1,2,3,4,6,7,8-HpCDF	73.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	110				13C-1,2,3,4,7,8,9-HpCDF	73.7	26 - 138	
OCDF	766				13C-OCDF	55.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	84.0	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 183

TOTALS			
Total TCDD	21.9		22.0
Total PeCDD	27.8		
Total HxCDD	198		
Total HpCDD	1950		
Total TCDF	830		831
Total PeCDF	916		
Total HxCDF	1010		
Total HpCDF	898		

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

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

Sample ID: PDI-057SC-B-02-04-191023 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903827-02 Date Received: 25-Oct-2019 8:40
Project: Gasco PDI	Sample Size: 18.7 g	QC Batch: B0A0056 Date Extracted: 09-Jan-2020 8:08
Date Collected: 23-Oct-2019 12:46	% Solids: 54.1	Date Analyzed : 03-Feb-20 02:59 Column: ZB-5MS 12-Mar-20 04:53 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.222			IS 13C-2,3,7,8-TCDD	26.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.331			13C-1,2,3,7,8-PeCDD	27.2	25 - 181	
1,2,3,4,7,8-HxCDD	0.967			J	13C-1,2,3,4,7,8-HxCDD	24.6	32 - 141	H
1,2,3,6,7,8-HxCDD	8.53				13C-1,2,3,6,7,8-HxCDD	24.2	28 - 130	H
1,2,3,7,8,9-HxCDD	2.50				13C-1,2,3,7,8,9-HxCDD	24.6	32 - 141	H
1,2,3,4,6,7,8-HpCDD	512				13C-1,2,3,4,6,7,8-HpCDD	26.7	23 - 140	
OCDD	3820			B	13C-OCDD	23.4	17 - 157	
2,3,7,8-TCDF	13.0				13C-2,3,7,8-TCDF	28.2	24 - 169	
1,2,3,7,8-PeCDF	20.9				13C-1,2,3,7,8-PeCDF	25.0	24 - 185	
2,3,4,7,8-PeCDF	8.00				13C-2,3,4,7,8-PeCDF	26.3	21 - 178	
1,2,3,4,7,8-HxCDF	30.8				13C-1,2,3,4,7,8-HxCDF	26.4	26 - 152	
1,2,3,6,7,8-HxCDF	8.03				13C-1,2,3,6,7,8-HxCDF	25.0	26 - 123	H
2,3,4,6,7,8-HxCDF	2.55				13C-2,3,4,6,7,8-HxCDF	25.2	28 - 136	H
1,2,3,7,8,9-HxCDF	0.654			J	13C-1,2,3,7,8,9-HxCDF	25.8	29 - 147	H
1,2,3,4,6,7,8-HpCDF	36.4				13C-1,2,3,4,6,7,8-HpCDF	25.8	28 - 143	H
1,2,3,4,7,8,9-HpCDF	6.20				13C-1,2,3,4,7,8,9-HpCDF	26.5	26 - 138	
OCDF	169				13C-OCDF	22.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.1	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 16.5

TOTALS			
Total TCDD	2.06		
Total PeCDD	2.73	5.16	
Total HxCDD	120		
Total HpCDD	1180		
Total TCDF	38.7	42.9	
Total PeCDF	60.6	61.4	
Total HxCDF	74.6		
Total HpCDF	169		

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

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

Sample ID: PDI-057SC-B-04-06-191023 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903827-03 Date Received: 25-Oct-2019 8:40
Project: Gasco PDI	Sample Size: 17.0 g	QC Batch: B0A0056 Date Extracted: 09-Jan-2020 8:08
Date Collected: 23-Oct-2019 12:46	% Solids: 59.1	Date Analyzed : 03-Feb-20 03:46 Column: ZB-5MS 12-Mar-20 05:23 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.224			IS 13C-2,3,7,8-TCDD	28.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.330			13C-1,2,3,7,8-PeCDD	28.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND		0.472		13C-1,2,3,4,7,8-HxCDD	26.0	32 - 141	H
1,2,3,6,7,8-HxCDD	6.21				13C-1,2,3,6,7,8-HxCDD	25.2	28 - 130	H
1,2,3,7,8,9-HxCDD	ND		1.29		13C-1,2,3,7,8,9-HxCDD	26.5	32 - 141	H
1,2,3,4,6,7,8-HpCDD	363				13C-1,2,3,4,6,7,8-HpCDD	31.4	23 - 140	
OCDD	2910			B	13C-OCDD	23.7	17 - 157	
2,3,7,8-TCDF	2.22				13C-2,3,7,8-TCDF	27.8	24 - 169	
1,2,3,7,8-PeCDF	3.30				13C-1,2,3,7,8-PeCDF	27.1	24 - 185	
2,3,4,7,8-PeCDF	1.49			J	13C-2,3,4,7,8-PeCDF	26.3	21 - 178	
1,2,3,4,7,8-HxCDF	5.11				13C-1,2,3,4,7,8-HxCDF	28.5	26 - 152	
1,2,3,6,7,8-HxCDF	1.27			J	13C-1,2,3,6,7,8-HxCDF	27.0	26 - 123	
2,3,4,6,7,8-HxCDF	0.591			J	13C-2,3,4,6,7,8-HxCDF	26.9	28 - 136	H
1,2,3,7,8,9-HxCDF	0.178			J	13C-1,2,3,7,8,9-HxCDF	27.3	29 - 147	H
1,2,3,4,6,7,8-HpCDF	18.1				13C-1,2,3,4,6,7,8-HpCDF	26.8	28 - 143	H
1,2,3,4,7,8,9-HpCDF	1.78			J	13C-1,2,3,4,7,8,9-HpCDF	29.0	26 - 138	
OCDF	120				13C-OCDF	23.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	97.6	35 - 197	

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

TEQMinWHO2005Dioxin 6.84

TOTALS								
Total TCDD	ND	0.224						
Total PeCDD	3.58							
Total HxCDD	74.4		76.2					
Total HpCDD	793							
Total TCDF	6.24		7.71					
Total PeCDF	7.89		11.9					
Total HxCDF	22.1		23.1					
Total HpCDF	109		110					

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

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

Sample ID: PDI-057SC-B-06-08-191023 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903827-04 Date Received: 25-Oct-2019 8:40
Project: Gasco PDI	Sample Size: 17.3 g	QC Batch: B0A0056 Date Extracted: 09-Jan-2020 8:08
Date Collected: 23-Oct-2019 12:46	% Solids: 57.8	Date Analyzed : 03-Feb-20 04:33 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.144			IS 13C-2,3,7,8-TCDD	32.3	25 - 164	
1,2,3,7,8-PeCDD	ND	0.138			13C-1,2,3,7,8-PeCDD	36.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.107			13C-1,2,3,4,7,8-HxCDD	41.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.110			13C-1,2,3,6,7,8-HxCDD	40.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.117			13C-1,2,3,7,8,9-HxCDD	43.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.465			J	13C-1,2,3,4,6,7,8-HpCDD	44.7	23 - 140	
OCDD	2.75			J, B	13C-OCDD	38.7	17 - 157	
2,3,7,8-TCDF	ND	0.132			13C-2,3,7,8-TCDF	32.5	24 - 169	
1,2,3,7,8-PeCDF	ND	0.107			13C-1,2,3,7,8-PeCDF	38.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0963			13C-2,3,4,7,8-PeCDF	38.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0981			13C-1,2,3,4,7,8-HxCDF	43.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0911			13C-1,2,3,6,7,8-HxCDF	42.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0929			13C-2,3,4,6,7,8-HxCDF	44.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.131			13C-1,2,3,7,8,9-HxCDF	43.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.149			13C-1,2,3,4,6,7,8-HpCDF	44.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.146			13C-1,2,3,4,7,8,9-HpCDF	44.1	26 - 138	
OCDF	ND		0.153		13C-OCDF	38.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	66.4	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00548

TOTALS								
Total TCDD	ND	0.144						
Total PeCDD	ND	0.138						
Total HxCDD	ND		0.0864					
Total HpCDD	0.958							
Total TCDF	ND	0.132						
Total PeCDF	ND	0.107						
Total HxCDF	ND	0.131						
Total HpCDF	ND	0.149						

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

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

Sample ID: PDI-062SC-B-00-02-191023 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903827-05 Date Received: 25-Oct-2019 8:40
Project: Gasco PDI	Sample Size: 17.3 g	QC Batch: B0C0209 Date Extracted: 17-Mar-2020 10:39
Date Collected: 23-Oct-2019 9:38	% Solids: 57.9	Date Analyzed : 19-Mar-20 06:42 Column: ZB-5MS 24-Mar-20 15:40 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.555			D, J	IS 13C-2,3,7,8-TCDD	79.9	25 - 164	D
1,2,3,7,8-PeCDD	1.13			D, J	13C-1,2,3,7,8-PeCDD	81.6	25 - 181	D
1,2,3,4,7,8-HxCDD	1.34			D, J	13C-1,2,3,4,7,8-HxCDD	73.2	32 - 141	D
1,2,3,6,7,8-HxCDD	10.3			D	13C-1,2,3,6,7,8-HxCDD	70.7	28 - 130	D
1,2,3,7,8,9-HxCDD	3.62			D, J	13C-1,2,3,7,8,9-HxCDD	70.1	32 - 141	D
1,2,3,4,6,7,8-HpCDD	648			D	13C-1,2,3,4,6,7,8-HpCDD	78.1	23 - 140	D
OCDD	6390			D, B	13C-OCDD	65.2	17 - 157	D
2,3,7,8-TCDF	8.52				13C-2,3,7,8-TCDF	78.7	24 - 169	D
1,2,3,7,8-PeCDF	12.9			D	13C-1,2,3,7,8-PeCDF	79.7	24 - 185	D
2,3,4,7,8-PeCDF	12.2			D	13C-2,3,4,7,8-PeCDF	78.4	21 - 178	D
1,2,3,4,7,8-HxCDF	20.8			D	13C-1,2,3,4,7,8-HxCDF	75.4	26 - 152	D
1,2,3,6,7,8-HxCDF	6.43			D	13C-1,2,3,6,7,8-HxCDF	71.7	26 - 123	D
2,3,4,6,7,8-HxCDF	5.02			D	13C-2,3,4,6,7,8-HxCDF	73.3	28 - 136	D
1,2,3,7,8,9-HxCDF	3.03			D, J	13C-1,2,3,7,8,9-HxCDF	73.3	29 - 147	D
1,2,3,4,6,7,8-HpCDF	77.0			D	13C-1,2,3,4,6,7,8-HpCDF	66.7	28 - 143	D
1,2,3,4,7,8,9-HpCDF	5.99			D	13C-1,2,3,4,7,8,9-HpCDF	71.5	26 - 138	D
OCDF	232			D	13C-OCDF	61.6	17 - 157	D
					CRS 37Cl-2,3,7,8-TCDD	75.3	35 - 197	D

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

TEQMinWHO2005Dioxin 20.9

TOTALS				
Total TCDD	7.09			
Total PeCDD	19.9	20.4		
Total HxCDD	130			
Total HpCDD	1520			
Total TCDF	81.7		P	
Total PeCDF	137	138	P	
Total HxCDF	118	119		
Total HpCDF	285			

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

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

Sample ID: PDI-062SC-B-02-04-191023 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903827-06 Date Received: 25-Oct-2019 8:40
Project: Gasco PDI	Sample Size: 17.5 g	QC Batch: B0A0056 Date Extracted: 09-Jan-2020 8:08
Date Collected: 23-Oct-2019 9:38	% Solids: 57.6	Date Analyzed : 03-Feb-20 06:07 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.110		IS 13C-2,3,7,8-TCDD	86.5	25 - 164	
1,2,3,7,8-PeCDD	0.354			J	13C-1,2,3,7,8-PeCDD	84.0	25 - 181	
1,2,3,4,7,8-HxCDD	0.383			J	13C-1,2,3,4,7,8-HxCDD	76.5	32 - 141	
1,2,3,6,7,8-HxCDD	3.87				13C-1,2,3,6,7,8-HxCDD	70.5	28 - 130	
1,2,3,7,8,9-HxCDD	1.32			J	13C-1,2,3,7,8,9-HxCDD	71.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	121				13C-1,2,3,4,6,7,8-HpCDD	70.4	23 - 140	
OCDD	1260			B	13C-OCDD	51.3	17 - 157	
2,3,7,8-TCDF	0.230			J	13C-2,3,7,8-TCDF	80.4	24 - 169	
1,2,3,7,8-PeCDF	0.212			J	13C-1,2,3,7,8-PeCDF	81.2	24 - 185	
2,3,4,7,8-PeCDF	ND		0.380		13C-2,3,4,7,8-PeCDF	78.8	21 - 178	
1,2,3,4,7,8-HxCDF	1.19			J	13C-1,2,3,4,7,8-HxCDF	80.5	26 - 152	
1,2,3,6,7,8-HxCDF	2.42			J	13C-1,2,3,6,7,8-HxCDF	75.6	26 - 123	
2,3,4,6,7,8-HxCDF	1.74			J	13C-2,3,4,6,7,8-HxCDF	73.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0771		13C-1,2,3,7,8,9-HxCDF	75.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	51.2				13C-1,2,3,4,6,7,8-HpCDF	69.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.708			J	13C-1,2,3,4,7,8,9-HpCDF	68.9	26 - 138	
OCDF	33.8				13C-OCDF	50.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	93.5	35 - 197	

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

TEQMinWHO2005Dioxin 3.59

TOTALS		
Total TCDD	0.686	1.49
Total PeCDD	5.83	6.81
Total HxCDD	73.5	73.7
Total HpCDD	322	
Total TCDF	11.3	11.8
Total PeCDF	25.3	25.7
Total HxCDF	42.9	43.2
Total HpCDF	105	

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

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

Sample ID: PDI-062SC-B-04-06-191023 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903827-07 Date Received: 25-Oct-2019 8:40
Project: Gasco PDI	Sample Size: 16.2 g	QC Batch: B0A0056 Date Extracted: 09-Jan-2020 8:08
Date Collected: 23-Oct-2019 9:38	% Solids: 61.8	Date Analyzed : 03-Feb-20 06:54 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.132			IS 13C-2,3,7,8-TCDD	45.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0903			13C-1,2,3,7,8-PeCDD	61.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0850			13C-1,2,3,4,7,8-HxCDD	67.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0838			13C-1,2,3,6,7,8-HxCDD	66.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0859			13C-1,2,3,7,8,9-HxCDD	73.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.654			J	13C-1,2,3,4,6,7,8-HpCDD	83.6	23 - 140	
OCDD	3.95			J, B	13C-OCDD	67.5	17 - 157	
2,3,7,8-TCDF	ND		0.0583		13C-2,3,7,8-TCDF	41.6	24 - 169	
1,2,3,7,8-PeCDF	ND		0.0609		13C-1,2,3,7,8-PeCDF	55.6	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0781			13C-2,3,4,7,8-PeCDF	54.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.0655		13C-1,2,3,4,7,8-HxCDF	67.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0520			13C-1,2,3,6,7,8-HxCDF	66.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0528			13C-2,3,4,6,7,8-HxCDF	70.7	28 - 136	
1,2,3,7,8,9-HxCDF	0.0883			J	13C-1,2,3,7,8,9-HxCDF	70.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.103		13C-1,2,3,4,6,7,8-HpCDF	74.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0684			13C-1,2,3,4,7,8,9-HpCDF	76.5	26 - 138	
OCDF	ND		0.135		13C-OCDF	67.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	52.8	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0166

TOTALS								
Total TCDD	ND	0.132						
Total PeCDD	ND		0.0432					
Total HxCDD	0.465							
Total HpCDD	1.47							
Total TCDF	ND		0.374					
Total PeCDF	ND		0.0609					
Total HxCDF	0.128		0.193					
Total HpCDF	ND		0.103					

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

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

Sample ID: PDI-062SC-B-06-08-191023 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903827-08 Date Received: 25-Oct-2019 8:40
Project: Gasco PDI	Sample Size: 14.0 g	QC Batch: B0A0056 Date Extracted: 09-Jan-2020 8:08
Date Collected: 23-Oct-2019 9:38	% Solids: 71.9	Date Analyzed : 03-Feb-20 07:41 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0545		IS 13C-2,3,7,8-TCDD	81.1	25 - 164	
1,2,3,7,8-PeCDD	ND		0.0498		13C-1,2,3,7,8-PeCDD	77.0	25 - 181	
1,2,3,4,7,8-HxCDD	0.0306			J	13C-1,2,3,4,7,8-HxCDD	69.8	32 - 141	
1,2,3,6,7,8-HxCDD	0.133			J	13C-1,2,3,6,7,8-HxCDD	65.1	28 - 130	
1,2,3,7,8,9-HxCDD	0.205			J	13C-1,2,3,7,8,9-HxCDD	65.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.05			J	13C-1,2,3,4,6,7,8-HpCDD	61.2	23 - 140	
OCDD	20.6			B	13C-OCDD	37.4	17 - 157	
2,3,7,8-TCDF	0.301			J	13C-2,3,7,8-TCDF	73.3	24 - 169	
1,2,3,7,8-PeCDF	0.323			J	13C-1,2,3,7,8-PeCDF	71.7	24 - 185	
2,3,4,7,8-PeCDF	0.161			J	13C-2,3,4,7,8-PeCDF	66.4	21 - 178	
1,2,3,4,7,8-HxCDF	0.969			J	13C-1,2,3,4,7,8-HxCDF	73.5	26 - 152	
1,2,3,6,7,8-HxCDF	0.290			J	13C-1,2,3,6,7,8-HxCDF	71.4	26 - 123	
2,3,4,6,7,8-HxCDF	0.0892			J	13C-2,3,4,6,7,8-HxCDF	63.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0991		13C-1,2,3,7,8,9-HxCDF	69.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.636			J	13C-1,2,3,4,6,7,8-HpCDF	63.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.180			J	13C-1,2,3,4,7,8,9-HpCDF	60.7	26 - 138	
OCDF	0.704			J	13C-OCDF	41.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	83.3	35 - 197	

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

TEQMinWHO2005Dioxin 0.295

TOTALS		
Total TCDD	0.415	0.975
Total PeCDD	0.421	0.892
Total HxCDD	2.55	2.65
Total HpCDD	5.26	
Total TCDF	2.39	2.74
Total PeCDF	1.06	1.14
Total HxCDF	1.50	1.86
Total HpCDF	1.28	

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

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

DATA QUALIFIERS & ABBREVIATIONS

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

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

Vista Analytical Laboratory Certifications

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

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

NELAP Accredited Test Methods

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

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

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

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

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

1903827 4.4°C, 2.9°C

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

Project: Gasco PDI
Client: NW Natural

COC ID: VIST1-20191023-151553
Sample Custodian: CO, SN, BJ, SS
Lab: VISTA - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-057SC-B-00-02-191023	N	SE	10/23/2019	12:46	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
002	PDI-057SC-B-02-04-191023	N	SE	10/23/2019	12:46	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
003	PDI-057SC-B-04-06-191023	N	SE	10/23/2019	12:46	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
004	PDI-057SC-B-06-08-191023	N	SE	10/23/2019	12:46	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
005	PDI-062SC-B-00-02-191023	N	SE	10/23/2019	9:38	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
006	PDI-062SC-B-02-04-191023	N	SE	10/23/2019	9:38	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
007	PDI-062SC-B-04-06-191023	N	SE	10/23/2019	9:38	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
008	PDI-062SC-B-06-08-191023	N	SE	10/23/2019	9:38	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C

Comment:

Relinquished By: Signature <i>[Signature]</i>	Received By: Signature <i>[Signature]</i>	Relinquished By: Signature	Received By: Signature	Relinquished By: Signature	Received By: Signature
Print Name C. OREIRO	Print Name Hayden Ganas	Print Name	Print Name	Print Name	Print Name
Company AQ	Company VAL	Company	Company	Company	Company
Date/Time 10/24/19 08:55	Date/Time 10/25/19 08:40	Date/Time	Date/Time	Date/Time	Date/Time

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 1903827 TAT std

Samples Arrival:	Date/Time		Initials:		Location: <u>WR-2</u>		
	<u>10/25/19 08:40</u>		<u>HOG</u>		Shelf/Rack: <u>NA</u>		
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GSO	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Dry Ice		<input type="checkbox"/> None
Temp °C: <u>4.4</u>	<u>(uncorrected)</u>		Probe used: Y <input checked="" type="checkbox"/> N			Thermometer ID: <u>IR-3</u>	
Temp °C: <u>4.4</u>	<u>(corrected)</u>						

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>1 of 2</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trk # <u>7768 1066 2343</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	
Chain of Custody / Sample Documentation Present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Holding Time Acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Logged In:	Date/Time		Initials:		Location: <u>WF-2</u>			
	<u>10/27/19 2040</u>		<u>[Signature]</u>		Shelf/Rack: <u>D-1</u>			
COC Anomaly/Sample Acceptance Form completed?						<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 1903827 TAT std

Samples Arrival:	Date/Time		Initials:		Location: <u>WR-2</u>		
	<u>10/25/19 08:40</u>		<u>HOG</u>		Shelf/Rack: <u>NA</u>		
Delivered By:	<u>FedEx</u>	UPS	On Trac	GSO	DHL	Hand Delivered	Other
Preservation:	<u>Ice</u>		Blue Ice		Dry Ice		None
Temp °C:	<u>2.9</u>	(uncorrected)	Probe used: <u>Y</u> <u>(N)</u>			Thermometer ID: <u>IR-3</u>	
Temp °C:	<u>2.9</u>	(corrected)					

	YES	NO	NA		
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Airbill <u>2 of 2</u> Trk # <u>7768 1066 2354</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Container	Vista	<u>Client</u>	Retain	<u>Return</u>	Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Logged In:	Date/Time		Initials:		Location: <u>WF-2</u>			
	<u>10/27/19 2040</u>		<u>Kee</u>		Shelf/Rack: <u>D-1</u>			
COC Anomaly/Sample Acceptance Form completed?						<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 1903827

LabNumber	CoC Sample ID	Label ID matches COCID	Label ID doesn't match COCID	SampleAlias	Sampled	Label Sampled matches	Sampled doesn't match	Container	Container Correct	BaseMatrix	Sample Comments
1903827-01	A PDI-057SC-B-00-02-191023 1	<input checked="" type="checkbox"/>		001	23-Oct-19 12:46	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903827-02	A PDI-057SC-B-02-04-191023 1	<input checked="" type="checkbox"/>		002	23-Oct-19 12:46	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903827-03	A PDI-057SC-B-04-06-191023 1	<input checked="" type="checkbox"/>		003	23-Oct-19 12:46	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903827-04	A PDI-057SC-B-06-08-191023 1	<input checked="" type="checkbox"/>		004	23-Oct-19 12:46	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903827-05	A PDI-062SC-B-00-02-191023 2	<input checked="" type="checkbox"/>		005	23-Oct-19 09:38	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903827-06	A PDI-062SC-B-02-04-191023 2	<input checked="" type="checkbox"/>		006	23-Oct-19 09:38	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903827-07	A PDI-062SC-B-04-06-191023 2	<input checked="" type="checkbox"/>		007	23-Oct-19 09:38	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903827-08	A PDI-062SC-B-06-08-191023 2	<input checked="" type="checkbox"/>		008	23-Oct-19 09:38	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	

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

Comments:

Cooler 1 = "1"
Cooler 2 = "2"

Verified by/Date: HDG 10/28/19

EXTRACTION INFORMATION

Process Sheet

Workorder: 1903827

Prep Expiration: 2020-10-22
Client: Anchor QEA, LLC

Workorder Due: 03-Jan-20 00:00

TAT: 70

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

Prep Batch: BOA0056

Prep Data Entered: R 01/19/20
Date and Initials

Initial Sequence: SOB0001

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1903827-01 A	<input checked="" type="checkbox"/>	PDI-057SC-B-00-02-191023 ✓	25-Oct-19 08:40	WF-2 D-1	
1903827-02	<input checked="" type="checkbox"/>	PDI-057SC-B-02-04-191023 ✓	25-Oct-19 08:40	WF-2 D-1	
1903827-03	<input checked="" type="checkbox"/>	PDI-057SC-B-04-06-191023 ✓	25-Oct-19 08:40	WF-2 D-1	
1903827-04	<input checked="" type="checkbox"/>	PDI-057SC-B-06-08-191023 ✓	25-Oct-19 08:40	WF-2 D-1	
1903827-05	<input checked="" type="checkbox"/>	PDI-062SC-B-00-02-191023 ✓	25-Oct-19 08:40	WF-2 D-1	
1903827-06	<input checked="" type="checkbox"/>	PDI-062SC-B-02-04-191023 ✓	25-Oct-19 08:40	WF-2 D-1	
1903827-07	<input checked="" type="checkbox"/>	PDI-062SC-B-04-06-191023 ✓	25-Oct-19 08:40	WF-2 D-1	
1903827-08	<input checked="" type="checkbox"/>	PDI-062SC-B-06-08-191023 ✓	25-Oct-19 08:40	WF-2 D-1	

WO Comments: ~~Percent Solids (dry weight)~~

Dioxin - 10g (dry weight)

Pre-Prep Check Out: CHT 12/09/19
Pre-Prep Check In: RR 01/03/20

Prep Check Out: BOB 01/09/20
Prep Check In: BOB 01/09/20

Prep Reconciled Initials/Date: RR 01/03/20, AZ 01/09/20
Spike Reconciled Initials/Date: BOB 01/09/20 01/09/20 BOB
VialBoxID: cherry spritz

PREPARATION BENCH SHEET

Matrix: Solid

B0A0056

Chemist: BUB

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 09-Jan-20 08:08

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B0A0056-BLK1	NA	(10.00)	2 Bob 01/09/20	2 01/13/20	01/13/20	01/13/20	2 01/13/20	01/13/20	2 2 01/14/20
<input type="checkbox"/>	B0A0056-BS1	↓	(10.00)	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	B0A0056-DUP1 1903654-07	16.55 16.18	16.60	↓	↓	01/13/20	↓	↓	↓	↓
<input type="checkbox"/>	1903654-01	15.22	15.31	↓	↓	01/17/20	↓	↓	↓	↓
<input type="checkbox"/>	1903654-02	15.57	15.72	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903654-03	12.55	12.66	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903654-04	15.40	15.45	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903654-05	20.08	20.19	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903654-06	17.67	17.76	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903654-07	16.55	16.70	↓	↓	01/17/20	↓	↓	↓	↓
<input type="checkbox"/>	1903654-08	16.17	16.33	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903654-09	18.28	18.30	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903654-10	17.31	17.48	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903654-11	16.30	16.56	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903827-01	18.82	19.01	↓	↓	↓	↓	↓	↓	↓

IS Name <u>V7</u>	NS Name <u>V5</u>	CRS Name <u>V5</u>	RS Name <u>V5</u>	Cycle Time	APP: SEFUN <u>SOX</u> <u>SDS</u>	Check Out: Chemist/Date: <u>BUB 01/09/20</u>
PCDD/F <u>19L2301, 10μL</u>	PCDD/F <u>18F1913, 10μL</u>	PCDD/F <u>19I1602, 10μL</u>	PCDD/F <u>19I1603, 10μL</u>	Start Date/Time <u>01/09/20 1330</u>	SOLV: <u>Tol</u>	Check In: Chemist/Date: <u>BUB 01/09/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>01/10/20 600</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>20μL</u>	<u>CM</u>	

Comments:

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

Bob 01/09/20

PREPARATION BENCH SHEET

Matrix: Solid

B0A0056

Chemist: BOB

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 09-Jan-20 08:08

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	1903827-02	18.49	18.69	<u>2</u> <u>BOB 01/09/20</u>	<u>2</u> <u>01/13/20</u>	<u>3</u> <u>01/13/20</u>	<u>01/13/20</u>	<u>01/13/20</u>	<u>01/13/20</u>	<u>2</u> <u>01/14/20</u>
<input type="checkbox"/>	1903827-03	16.93	17.03	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903827-04	17.29	17.29	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903827-05	17.28	17.51	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903827-06	17.36	17.49	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903827-07	16.18	16.20	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903827-08	13.91	14.01	↓	↓	↓	↓	↓	↓	↓

- Ⓐ Not enough microsaxhlets. used HL and 4 solvent ^{BOB 01/09/20} fine rinsed. BOB 01/09/20
- Ⓑ 2 01/13/20
- Ⓒ Not all Samples Acid partitioned 01/13/20
- Ⓓ turned ABSG column back 01/13/20
- Ⓔ Sample was elute w/ DCM during first elution. Sample was collected right away. Additional DCM was added. Sample was then concentrated & re florisil. 01/13/19
- Ⓕ 2 01/14/20

IS Name <u>V7</u>	NS Name <u>V5</u>	CRS Name <u>V5</u>	RS Name <u>V5</u>	Cycle Time	APP: SEFUN <u>SOX</u> <u>SDS</u>	Check Out: Chemist/Date: <u>BOB 01/09/20</u>
PCDD/F <u>19L2301, 10µL</u>	PCDD/F <u>18F1913, 10µL</u>	PCDD/F <u>19I1602, 10µL</u>	PCDD/F <u>19I1603, 10µL</u>	Start Date/Time <u>01/09/20 1530</u>	SOLV: <u>Tol</u>	Check In: Chemist/Date: <u>BOB 01/09/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>01/10/20 600</u>	Other <u>WA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____		Final Volume(s) <u>20µL</u>	
					<u>CM</u>	

Comments:

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

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903654-01	15.31	65.69037	10.0572	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-02	15.72	64.23488	10.0977	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-03	12.66	79.71014	10.0913	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-04	15.45	64.91936	10.0300	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-05	20.19	49.79167	10.0529	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-06	17.76	56.59656	10.0515	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-07	16.7	60.42781	10.0914	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-08	16.33	61.85567	10.1010	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-09	18.3	54.70942	10.0118	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-10	17.48	57.75701	10.0959	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903654-11	16.56	61.33909	10.1578	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903827-01	19.01	53.13284	10.1006	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903827-02	18.69	54.08561	10.1086	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903827-03	17.03	59.06041	10.0580	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903827-04	17.29	57.84754	10.0018	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903827-05	17.51	57.85582	10.1306	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903827-06	17.49	57.59637	10.0736	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903827-07	16.2	61.82171	10.0151	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
1903827-08	14.01	71.875	10.0697	20	09-Jan-20 08:08	BNB			Sediment	1613 Full List
B0A0056-BLK1	10			20	09-Jan-20 08:08	BNB				QC
B0A0056-BS1	10			20	09-Jan-20 08:08	BNB	18F1913 ✓	10 ✓		QC
B0A0056-DUP1	16.6	60.97781	10.0310	20	09-Jan-20 08:08	BNB				QC

All bolded data on report verified against written benchsheet by (initial/date) U 01/14/20

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9L0075

Analyst: RR ✓ Analyte: Oven ID: 0-2 ✓	Test Code: %Moist/%Solids Units: % Dried at 110°C+/-5°C	Data Entry Verified by: (Initial and Date) <u>RRB 01/19/20</u>
---	---	---

Inst HRMS-8 ✓ Date/Time IN: 01/03/20 1048 ✓ Date/Time OUT: 01/09/20 0551 ✓

B		C	D	E		F	G	H	I	K		L	M	N	O	P
Particle Size	SampID	SampType	Initial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	RR 01/03/20 ✓		pH Before	pH After	Acid Added	Sample Homogenized*		
			Pan Tare Wt. (gms)						Visual Inspection	Cl-						
	1903827-01	A ✓	Sample	1.2800 ✓	5.2700 ✓	3.4000 ✓	2.1200	53.13	MUD ✓	NA	NA	NA	NA	YES ✓		
	1903827-02	A ✓	Sample	1.2900 ✓	6.4300 ✓	4.0700 ✓	2.7800	54.09	MUD ✓	NA	NA	NA	NA	YES ✓		
	1903827-03	A ✓	Sample	1.2800 ✓	5.7500 ✓	3.9200 ✓	2.6400	59.06	MUD ✓	NA	NA	NA	NA	YES ✓		
	1903827-04		Sample	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	1903827-05	A ✓	Sample	1.3000 ✓	6.7100 ✓	4.4300 ✓	3.1300	57.86	MUD ✓	NA	NA	NA	NA	YES ✓		
	1903827-06	A ✓	Sample	1.2900 ✓	5.7000 ✓	3.8300 ✓	2.5400	57.60	MUD ✓	NA	NA	NA	NA	YES ✓		
	1903827-07	A ✓	Sample	1.2900 ✓	6.4500 ✓	4.4800 ✓	3.1900	61.82	MUD ✓	NA	NA	NA	NA	YES ✓		
	1903827-08	A ✓	Sample	1.2900 ✓	6.7300 ✓	5.2000 ✓	3.9100	71.88	MUD ✓	NA	NA	NA	NA	YES ✓		

*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9L0075

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

Inst HRMS-8

Date/Time IN: 01-03-20/10:48 Date/Time OUT: 01/03/20 08:51
BUS 01/09/20

Particle Size	SampID	SampType	Initial and Date:	F	G	H	I	K	L	M	N	O	P
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
	1903827-01 A	Sample	1.28	5.27	3.40			Mud					X
	1903827-02 A	Sample	1.29	6.43	4.07			Mud					X
	1903827-03 A	Sample	1.28	5.75	3.92			Mud					X
	1903827-04 A	Sample											
	1903827-05 A	Sample	1.30	6.71	4.45			Mud					X
	1903827-06 A	Sample	1.29	5.70	3.83			Mud					X
	1903827-07 A	Sample	1.29	6.45	4.48			Mud					X
	1903827-08 A	Sample	1.29	6.73	5.20			Mud					X

BUS
01/03/20
01/09/20

*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0A0042

Analyst: AZ ✓

Test Code: %Moist/%Solids

Analyte:

Dried at 110°C+/-5°C

Oven ID: 0-2

Units: %

Data Entry Verified by:

(Initial and Date) fnb 01/09/20

Inst

HRMS-10 ✓

Date/Time IN: Date/Time OUT

01/08/2020 0910, 01/09/20 0551

	B	C	D	E	F	G	H	I	K	L	M	N	O	P
Particle Size	Sample ID		SampType	Initial and Date:	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
	1903827-04	A ✓	Sample	Pan Tare Wt. (gms) 01/08/2020 ✓ 1.2600 ✓	7.9500 ✓	5.1300 ✓	3.8700	57.85	MUD ✓	NA	NA	NA	NA	YES ✓

*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0A0042

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

Inst **HRMS-10** Date/Time IN: **01/08/2020 0910** Date/Time OUT: **01/08/2020 0551**

B		C	D	E	F	G	H	I	K	L	M	N	O	P
Particle Size	SampleID	SampType	Initial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
			Pan Tare Wt. (gms)	Final Date										
	1903827-04	A	Sample	1.26	7.95	5.13		5.00/100	Mud					Y
					(A) 5.00/100									

*Sample homogenized in sample container unless otherwise noted.

RUSH

Process Sheet

Workorder: **1903827**

RX ASAP

Ⓟ 03/17/20

Prep Expiration: 2020-10-22
Client: Anchor QEA, LLC

Workorder Due: 03-Jan-20 00:00

TAT: 70

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

Prep Batch: **BOCO209**

Prep Data Entered: **AZ 03/18/20**

Initial Sequence:

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
XXXXXXXXXX	<input type="checkbox"/>	XXXXXXXXXX	25-Oct-19 08:40	WR-2 G-5	Percent Solids
XXXXXXXXXX	<input type="checkbox"/>	XXXXXXXXXX	25-Oct-19 08:40	WR-2 G-5	Percent Solids
XXXXXXXXXX	<input type="checkbox"/>	XXXXXXXXXX	25-Oct-19 08:40	WR-2 G-5	Percent Solids
XXXXXXXXXX	<input type="checkbox"/>	XXXXXXXXXX	25-Oct-19 08:40	WR-2 G-5	Percent Solids
1903827-05 A	<input type="checkbox"/>	PDI-062SC-B-00-02-191023	25-Oct-19 08:40	WR-2 G-5	Percent Solids
XXXXXXXXXX	<input type="checkbox"/>	XXXXXXXXXX	25-Oct-19 08:40	WR-2 G-5	Percent Solids
XXXXXXXXXX	<input type="checkbox"/>	XXXXXXXXXX	25-Oct-19 08:40	WR-2 G-5	Percent Solids
XXXXXXXXXX	<input type="checkbox"/>	XXXXXXXXXX	25-Oct-19 08:40	WR-2 G-5	Percent Solids

WO Comments: ~~XXXXXXXXXX~~ **AO 03/17/20**
Dioxin - 10g (dry weight)
~~XXXXXXXXXX~~ **RR 03/17/20**

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

Prep Check Out: RR 03/17/20
Prep Check In: RR 03/17/20

Prep Reconciled Initials/Date: RR 03/17/20
Spike Reconciled Initials/Date: AO 03/17/20
VialBoxID: TUP Gun IV

PREPARATION BENCH SHEET

Matrix: Solid

B0C0209

Chemist: RR

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 17-Mar-20 10:39

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisl CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B0C0209-BLK1	NA	(10.00)	AO RR 03/17/20	AO AZ 03/18/20	AZ 03/18/20	AO AZ 03/18/20	AO AZ 03/18/20	AO 03/18/20	AO AZ 03/18/20
<input type="checkbox"/>	B0C0209-BS1	NA	(10.00)	T	T	T	T	T	T	T
<input type="checkbox"/>	1903654-05RE3	20.08	20.09	T	T	T	black	T	T	T
<input type="checkbox"/>	1903654-08RE3	16.17	16.51	T	T	T	T	T	T	T
<input type="checkbox"/>	1903654-11RE3	16.30	16.31	T	T	T	T	T	T	T
<input type="checkbox"/>	1903827-05RE3	17.28	17.29	T	T	T	T	T	T	T
<input type="checkbox"/>	1904161-16RE5	17.58	17.88	T	T	T	T	T	T	T
<input type="checkbox"/>	2000142-16RE1	13.67	13.77	T	T	NA	T	T	T	T

IS Name <u>V5</u>	NS Name <u>V3</u>	CRS Name <u>V5</u>	RS Name <u>V3</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>RR 03/17/20</u>
PCDD/F <u>19L2301, 10uL</u>	PCDD/F <u>18F1913, 10uL</u>	PCDD/F <u>19I1602, 10uL</u>	PCDD/F <u>19I1603, 10uL</u>	Start Date/Time <u>03-17-20 1349</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>RR 03/17/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>03-18-20 653</u>	Other <u>NA</u>	Balance ID: <u>HRMS-10</u>
PAH _____	PAH _____	PAH _____	PAH _____	<u>555</u>	Final Volume(s) <u>C14 20uL</u>	

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

5 = Sample homogenized in secondary container
 6 = Sample clogged during extaction; pipetted and used Nitrogen to assist

Batch: B0C0209

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903654-05RE3	20.09 ✓	49.79167	10.0031	20 ✓	17-Mar-20 10:39	ACO ✓			Sediment	1613 Full List
1903654-05RE4	20.09	49.79167	10.0031	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
1903654-08RE3	16.51 ✓	61.85567	10.2124	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
1903654-08RE4	16.51	61.85567	10.2124	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
1903654-11RE3	16.31 ✓	61.33909	10.0044	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
1903654-11RE4	16.31	61.33909	10.0044	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
1903827-05RE3	17.29 ✓	57.85582	10.0033	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
1903827-05RE4	17.29	57.85582	10.0033	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
1904161-16RE5	17.88 ✓	56.88074	10.1703	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
1904161-16RE6	17.88	56.88074	10.1703	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
2000142-16RE1	13.77 ✓	73.16018	10.0742	20	17-Mar-20 10:39	ACO			Sediment	1613 Full List
B0C0209-BLK1	10			20	17-Mar-20 10:39	ACO				QC
B0C0209-BS1	10			20 ✓	17-Mar-20 10:39	ACO	18F1913 ✓	10 ✓		QC

All bolded data on report verified against written benchsheet by (initial/date) AZ 03/24/20

Printed: 3/24/2020 1:55:35PM
Page 1 of 1

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-4.qld

Last Altered: Friday, March 13, 2020 12:20:57 Pacific Daylight Time
Printed: Friday, March 13, 2020 12:21:03 Pacific Daylight Time

ht 3-13-2020

07 03/13/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-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	2,3,7,8-TCDD			NO	0.988	10.000	25.736		1.001				0.0658	
2	1,2,3,7,8-PeCDD			NO	0.972	10.000	30.657		1.001				0.0645	
3	1,2,3,4,7,8-HxCDD			NO	1.07	10.000	33.997		1.000				0.0572	
4	1,2,3,6,7,8-HxCDD			NO	0.921	10.000	34.094		1.000				0.0574	
5	1,2,3,7,8,9-HxCDD			NO	0.918	10.000	34.405		1.001				0.0611	
6	1,2,3,4,6,7,8-HpCDD			NO	0.923	10.000	37.928		1.000				0.0972	
7	OCDD	7.52e2	0.85	NO	0.975	10.000	40.910	40.92	1.000	1.000	0.24620		0.0872	0.246
8	2,3,7,8-TCDF			NO	0.802	10.000	24.862		1.001				0.0472	
9	1,2,3,7,8-PeCDF			NO	0.907	10.000	29.391		1.001				0.0439	
10	2,3,4,7,8-PeCDF			NO	0.952	10.000	30.361		1.001				0.0399	
11	1,2,3,4,7,8-HxCDF			NO	0.862	10.000	33.125		1.000				0.0407	
12	1,2,3,6,7,8-HxCDF			NO	0.841	10.000	33.252		1.000				0.0406	
13	2,3,4,6,7,8-HxCDF			NO	0.898	10.000	33.861		1.001				0.0442	
14	1,2,3,7,8,9-HxCDF	4.44e2	0.89	YES	0.858	10.000	34.733	34.74	1.000	1.000	0.097248		0.0693	0.0829
15	1,2,3,4,6,7,8-HpCDF			NO	0.851	10.000	36.516		1.001				0.0667	
16	1,2,3,4,7,8,9-HpCDF			NO	0.980	10.000	38.503		1.000				0.0732	
17	OCDF			NO	0.806	10.000	41.102		1.000				0.0935	
18	13C-2,3,7,8-TCDD	1.52e6	0.80	NO	1.20	10.000	25.706	25.70	1.026	1.026	188.04	94.0	0.183	
19	13C-1,2,3,7,8-PeCDD	1.23e6	0.63	NO	0.967	10.000	30.450	30.64	1.215	1.222	188.23	94.1	0.186	
20	13C-1,2,3,4,7,8-HxCDD	9.54e5	1.28	NO	0.874	10.000	33.988	33.99	1.014	1.014	164.06	82.0	0.297	
21	13C-1,2,3,6,7,8-HxCDD	1.11e6	1.28	NO	1.05	10.000	34.089	34.09	1.017	1.017	159.88	79.9	0.248	
22	13C-1,2,3,7,8,9-HxCDD	1.06e6	1.24	NO	0.974	10.000	34.390	34.37	1.026	1.025	163.61	81.8	0.266	
23	13C-1,2,3,4,6,7,8-HpCDD	7.98e5	1.01	NO	0.747	10.000	37.944	37.92	1.132	1.131	160.49	80.2	0.439	
24	13C-OCDD	1.25e6	0.88	NO	0.707	10.000	40.826	40.91	1.218	1.221	266.75	66.7	0.295	
25	13C-2,3,7,8-TCDF	2.07e6	0.77	NO	1.07	10.000	24.887	24.84	0.993	0.991	170.19	85.1	0.280	
26	13C-1,2,3,7,8-PeCDF	2.04e6	1.59	NO	1.00	10.000	29.222	29.37	1.166	1.172	178.52	89.3	0.360	
27	13C-2,3,4,7,8-PeCDF	1.97e6	1.59	NO	0.962	10.000	30.175	30.33	1.204	1.210	179.28	89.6	0.375	
28	13C-1,2,3,4,7,8-HxCDF	1.29e6	0.51	NO	1.05	10.000	33.117	33.13	0.988	0.988	184.90	92.5	0.325	
29	13C-1,2,3,6,7,8-HxCDF	1.42e6	0.52	NO	1.19	10.000	33.217	33.24	0.991	0.992	179.18	89.6	0.287	
30	13C-2,3,4,6,7,8-HxCDF	1.23e6	0.52	NO	1.07	10.000	33.824	33.83	1.009	1.009	173.16	86.6	0.320	
31	13C-1,2,3,7,8,9-HxCDF	1.06e6	0.52	NO	0.922	10.000	34.726	34.73	1.036	1.036	173.32	86.7	0.370	

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-4.qld

Last Altered: Friday, March 13, 2020 12:20:57 Pacific Daylight Time

Printed: Friday, March 13, 2020 12:21:03 Pacific Daylight Time

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-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	8.76e5	0.44	NO	0.767	10.000	36.469	36.48	1.088	1.088	171.68	85.8	0.422	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.97e5	0.44	NO	0.552	10.000	38.480	38.50	1.148	1.149	162.31	81.2	0.586	
34	34 13C-OCDF	1.44e6	0.87	NO	0.789	10.000	41.061	41.10	1.225	1.226	273.60	68.4	0.231	
35	35 37Cl-2,3,7,8-TCDD	6.16e5			1.18	10.000	25.739	25.74	1.027	1.027	77.455	96.8	0.0503	
36	36 13C-1,2,3,4-TCDD	1.35e6	0.79	NO	1.00	10.000	25.080	25.06	1.000	1.000	200.00	100	0.219	
37	37 13C-1,2,3,4-TCDF	2.28e6	0.79	NO	1.00	10.000	23.420	23.42	1.000	1.000	200.00	100	0.298	
38	38 13C-1,2,3,4,6,9-HxCDF	1.33e6	0.51	NO	1.00	10.000	33.520	33.52	1.000	1.000	200.00	100	0.341	
39	39 Total Tetra-Dioxins				0.988	10.000	24.620		0.000				0.0404	
40	40 Total Penta-Dioxins				0.972	10.000	29.960		0.000				0.0264	
41	41 Total Hexa-Dioxins				0.921	10.000	33.635		0.000				0.0297	
42	42 Total Hepta-Dioxins				0.923	10.000	37.640		0.000				0.0501	
43	43 Total Tetra-Furans				0.802	10.000	23.610		0.000				0.0191	
44	44 1st Func. Penta-Furans				0.907	10.000	27.090		0.000				0.0116	
45	45 Total Penta-Furans				0.907	10.000	29.275		0.000				0.0190	
46	46 Total Hexa-Furans				0.898	10.000	33.555		0.000		0.00000		0.0251	0.0829
47	47 Total Hepta-Furans				0.851	10.000	37.835		0.000				0.0353	

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-4.qld

Last Altered: Friday, March 13, 2020 12:20:57 Pacific Daylight Time

Printed: Friday, March 13, 2020 12:21:03 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-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\200202R1\200202R1-4.qld

Last Altered: Friday, March 13, 2020 12:20:57 Pacific Daylight Time

Printed: Friday, March 13, 2020 12:21:03 Pacific Daylight Time

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-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	1,2,3,7,8,9-HxCDF	34.74	4.104e3	4.357e3	2.094e2	2.343e2	0.89	YES	4.437e2	0.00000	0.082917	0.0593

Hepta-Furans

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

Dataset: Untitled

Last Altered: Monday, February 03, 2020 07:37:17 Pacific Standard Time

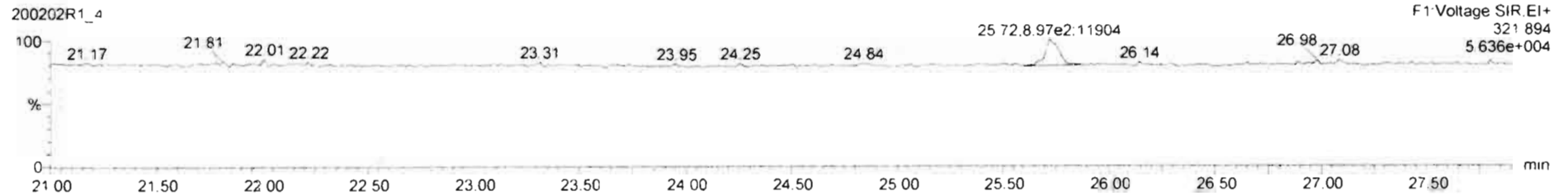
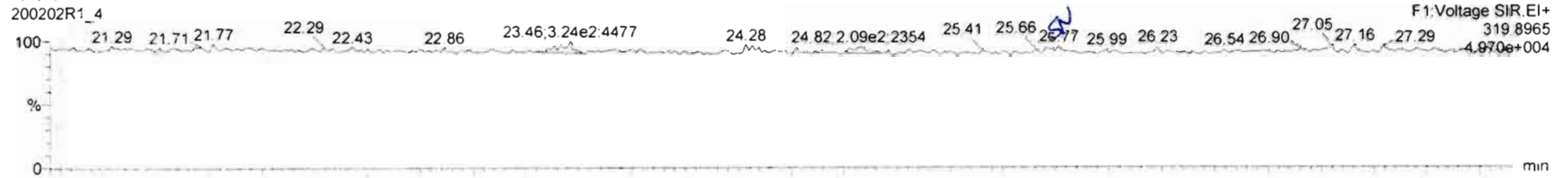
Printed: Monday, February 03, 2020 07:37:41 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

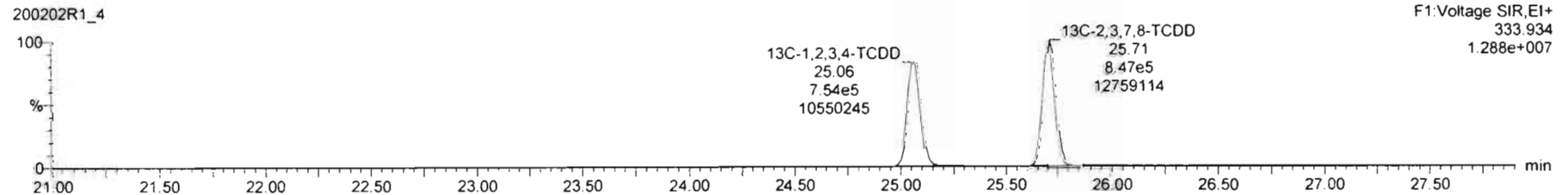
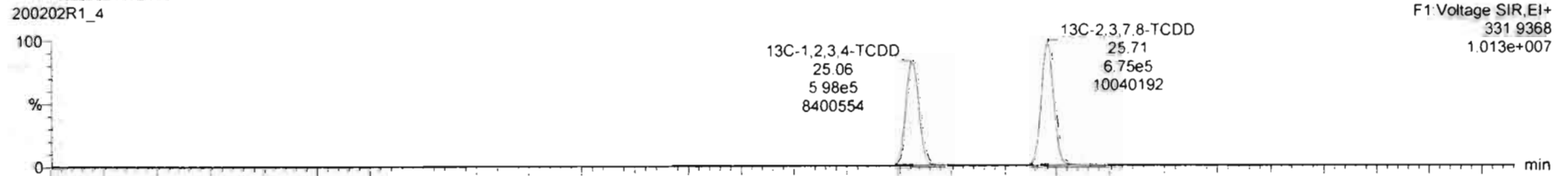
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

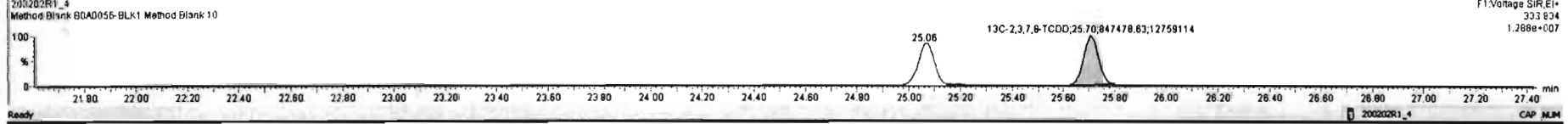
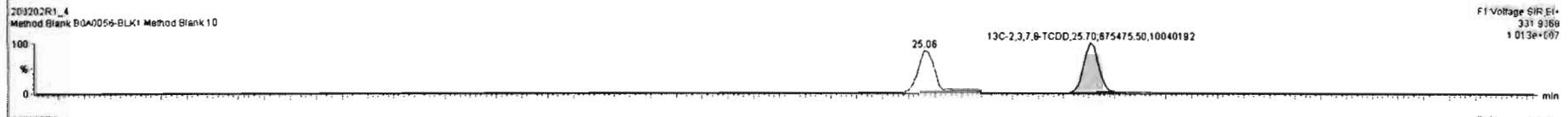
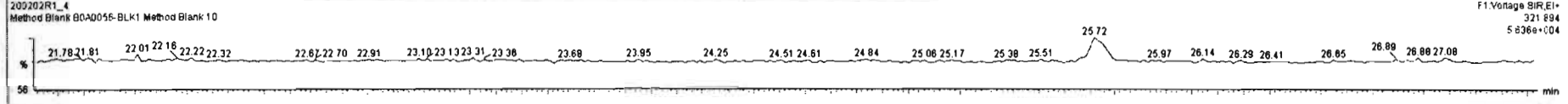
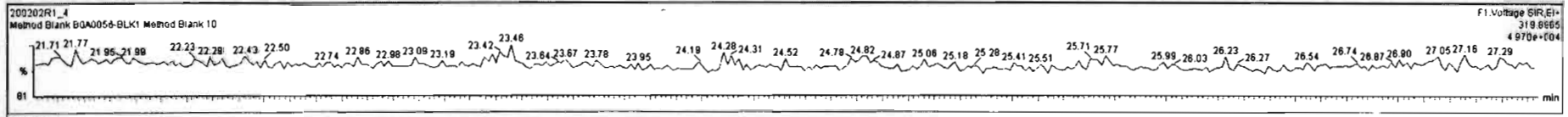


13C-2,3,7,8-TCDD



SI	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
30	13C-2,3,4,6,7,8-HxCDF	1.22e6	0.52	NO	1.0662	10.000	33.83	1.009	173	86.6	0.320	
31	13C-1,2,3,7,8-HxCDF	1.06e6	0.52	NO	0.9224	10.000	34.73	1.036	173	86.7	0.370	
32	13C-1,2,3,4,6,7,8-HpCDF	8.75e5	0.44	NO	0.7672	10.000	36.48	1.068	172	86.8	0.422	
33	13C-1,2,3,4,7,8-HpCDF	5.97e5	0.44	NO	0.5623	10.000	36.50	1.149	162	81.2	0.586	
34	13C-OCDF	1.44e6	0.87	NO	0.7894	10.000	41.10	1.226	274	88.4	0.231	
35	37Cl-2,3,7,8-TCDD	8.18e5			1.1763	10.000	25.74	1.027	77.5	98.8	0.0503	
36	13C-1,2,3,4-TCDD	1.35e6	0.79	NO	1.0000	10.000	25.06	1.000	200	100	0.218	
37	13C-1,2,3,4-TCDF	2.29e6	0.79	NO	1.0000	10.000	23.42	1.000	200	100	0.296	
38	13C-1,2,3,4,6,9-HxCDF	1.33e6	0.51	NO	1.0000	10.000	33.52	1.000	200	100	0.341	
39	Total Tetra-Chlorine				0.9681	10.000					0.0404	
40	Total Penta-Chlorine				0.9723	10.000			0.000		0.0284	0.0614

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



Dataset: Untitled

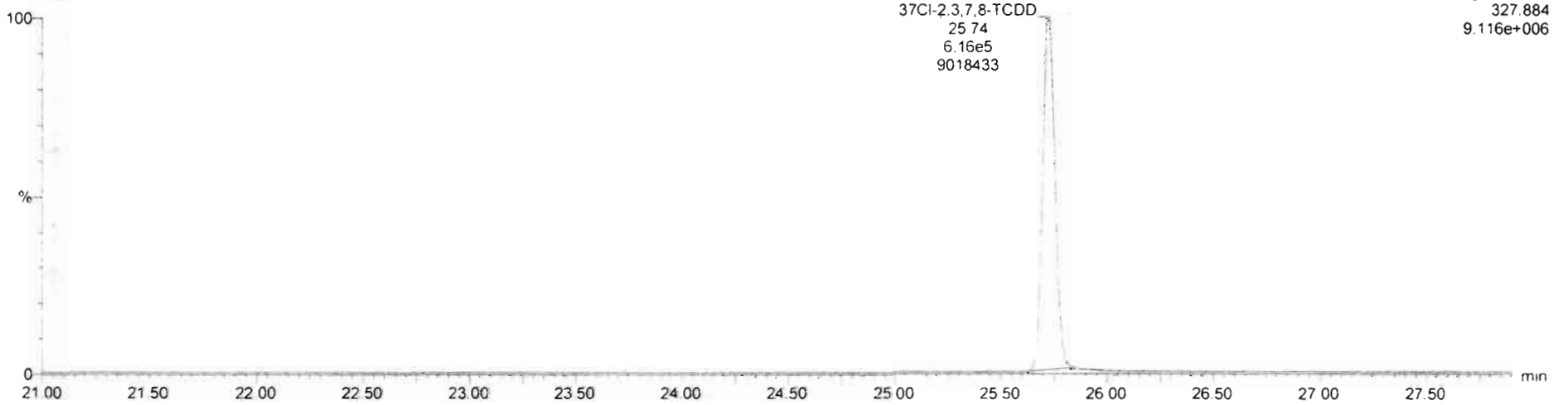
Last Altered: Monday, February 03, 2020 07:37:17 Pacific Standard Time

Printed: Monday, February 03, 2020 07:37:41 Pacific Standard Time

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

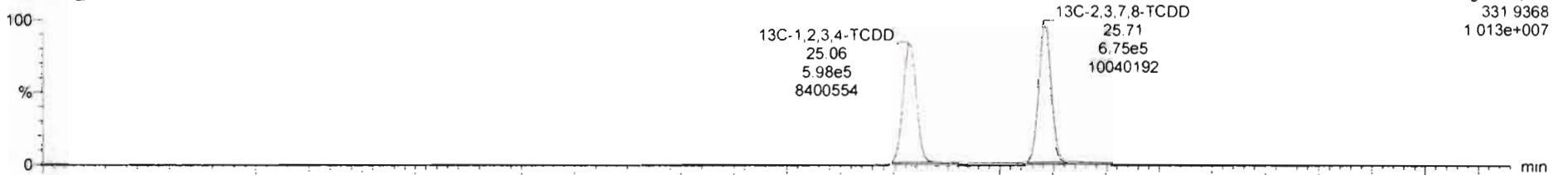
37Cl-2,3,7,8-TCDD

200202R1_4

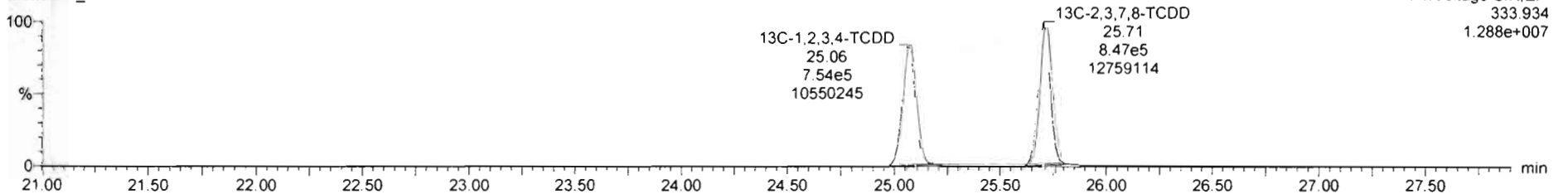


13C-1,2,3,4-TCDD

200202R1_4



200202R1_4

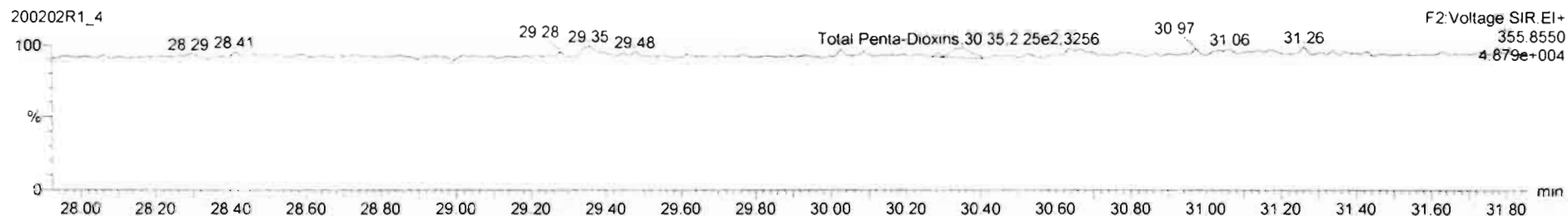
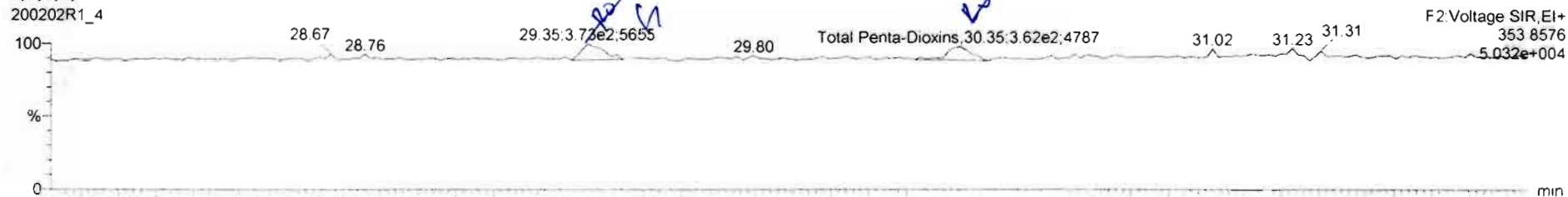


Dataset: Untitled

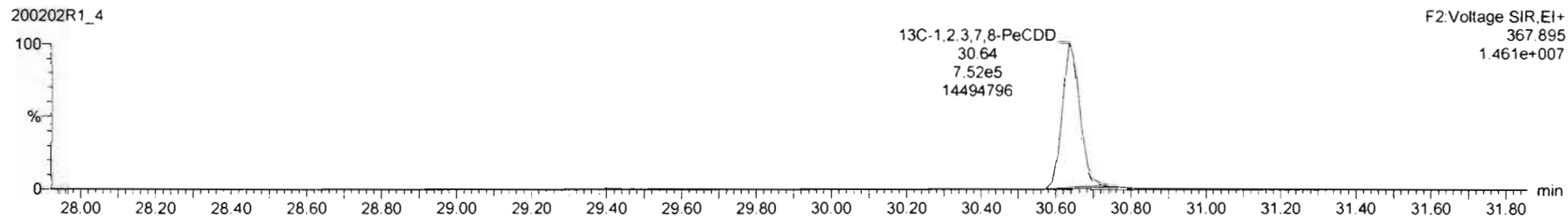
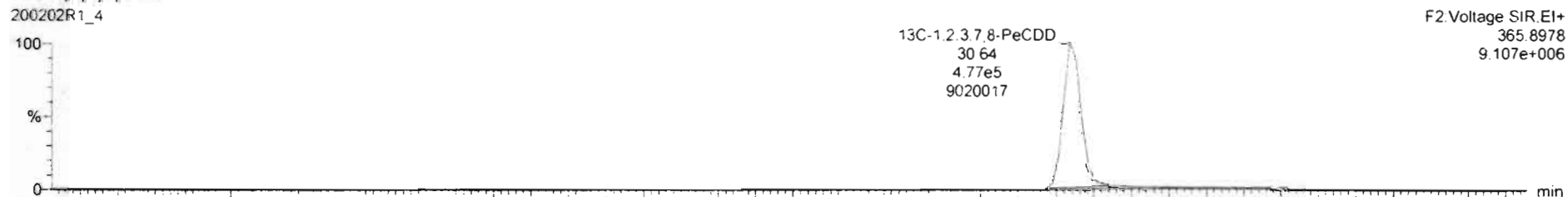
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Printed: Monday, February 03, 2020 07:37:41 Pacific Standard Time

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD



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



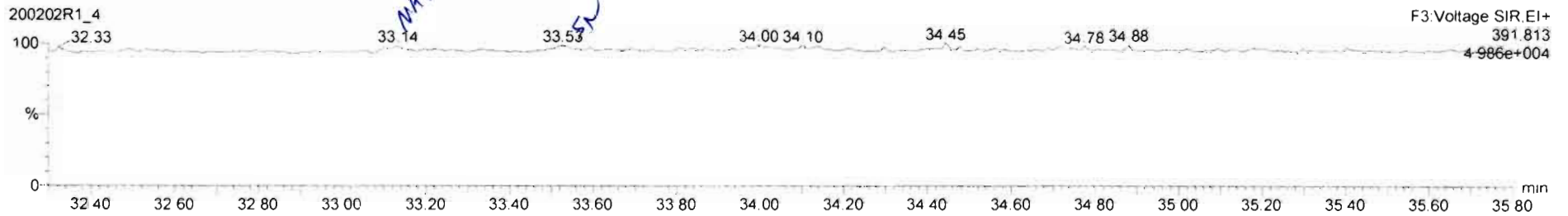
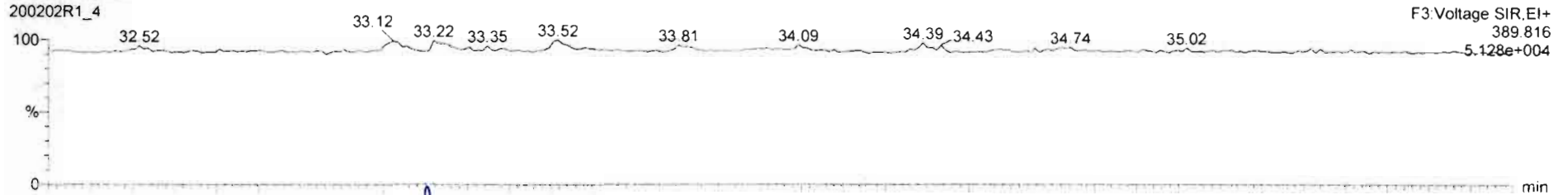
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Last Altered: Monday, February 03, 2020 07:37:17 Pacific Standard Time

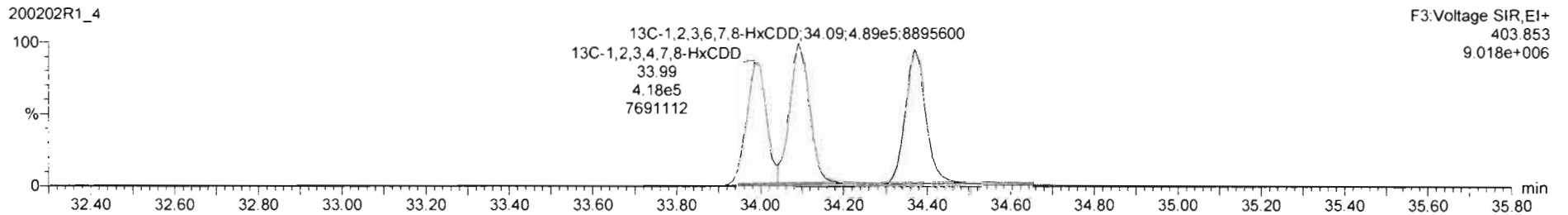
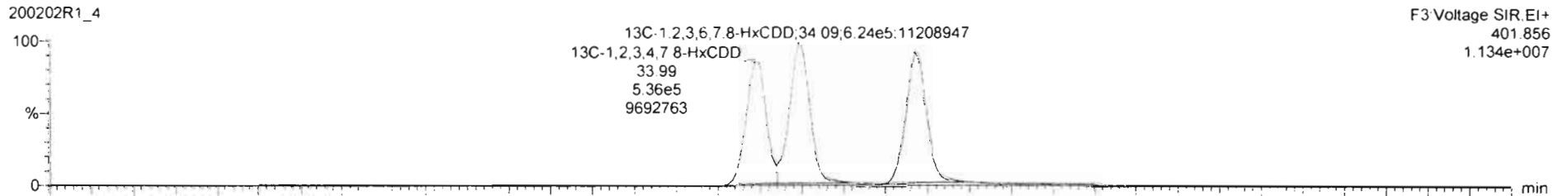
Printed: Monday, February 03, 2020 07:37:41 Pacific Standard Time

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

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

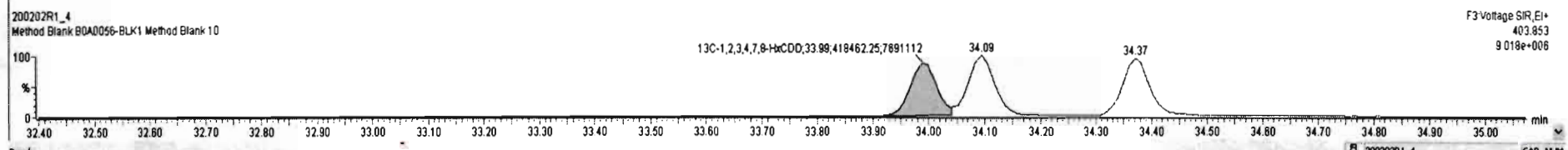
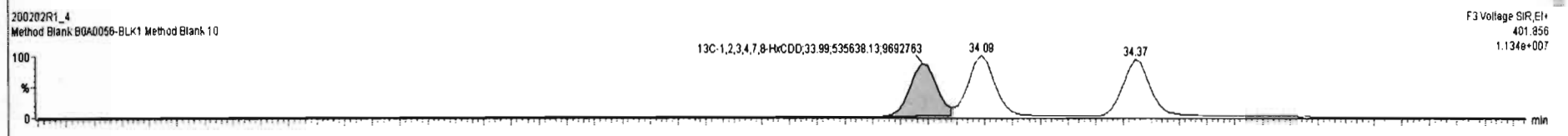
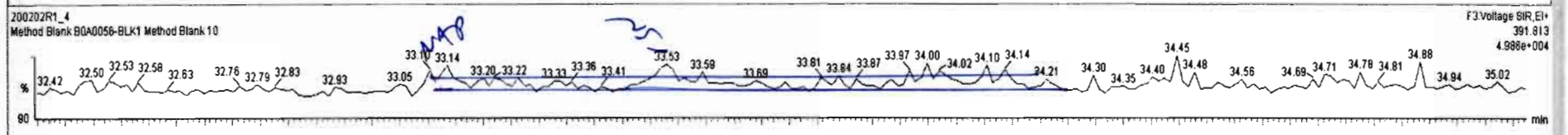
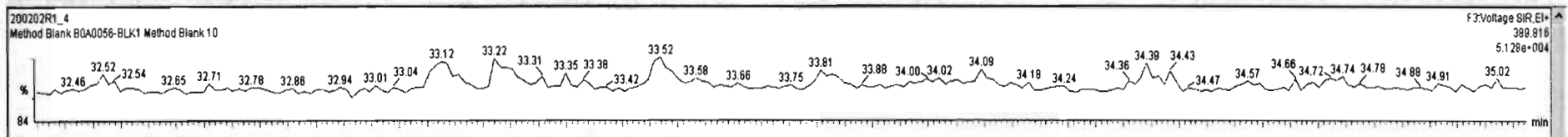


13C-1,2,3,4,7,8-HxCDD



Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9211	10.000					0.0297	
42 Total Hepta-Dioxins				0.9231	10.000					0.0501	
43 Total Tetra-Furans				0.8020	10.000					0.0191	
44 1st Func. Penta-Furans				0.9074	10.000					0.0116	
45 Total Penta-Furans				0.9074	10.000					0.0190	
46 Total Hexa-Furans				0.8982	10.000			0.000		0.0251	0.0629
47 Total Hepta-Furans				0.8511	10.000					0.0353	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Wave	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1							



Dataset: Untitled

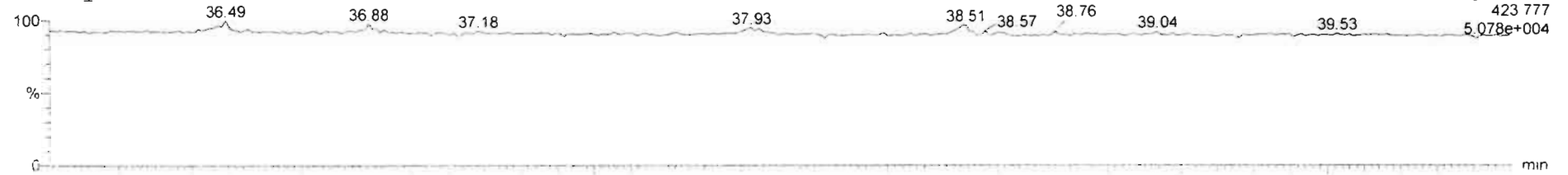
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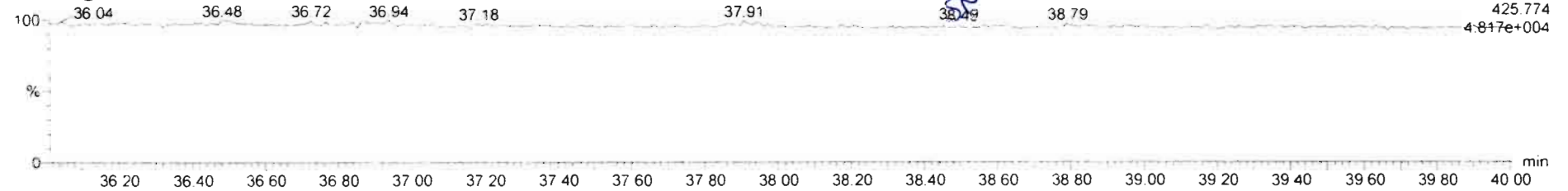
Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

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

200202R1_4

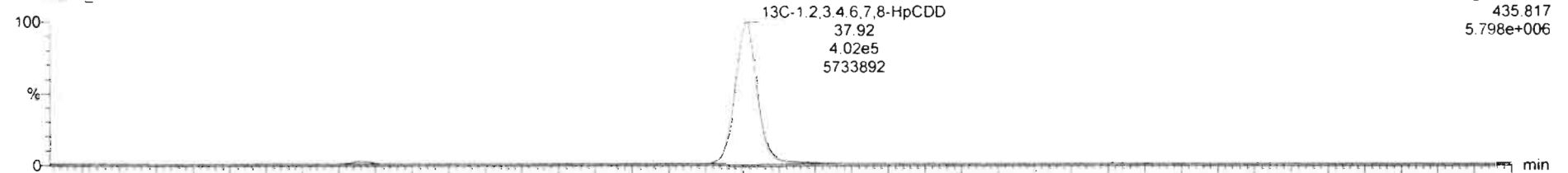


200202R1_4

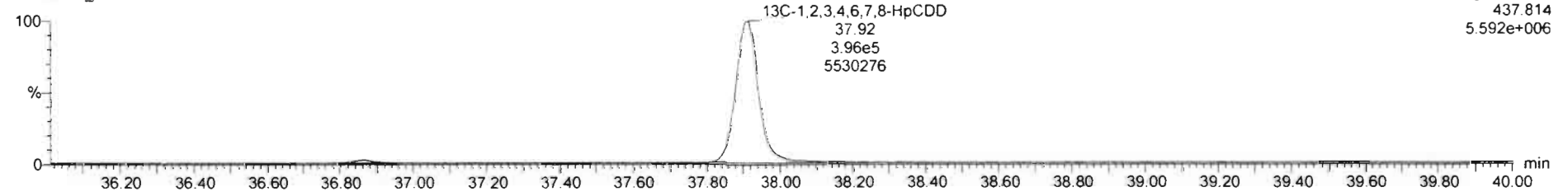


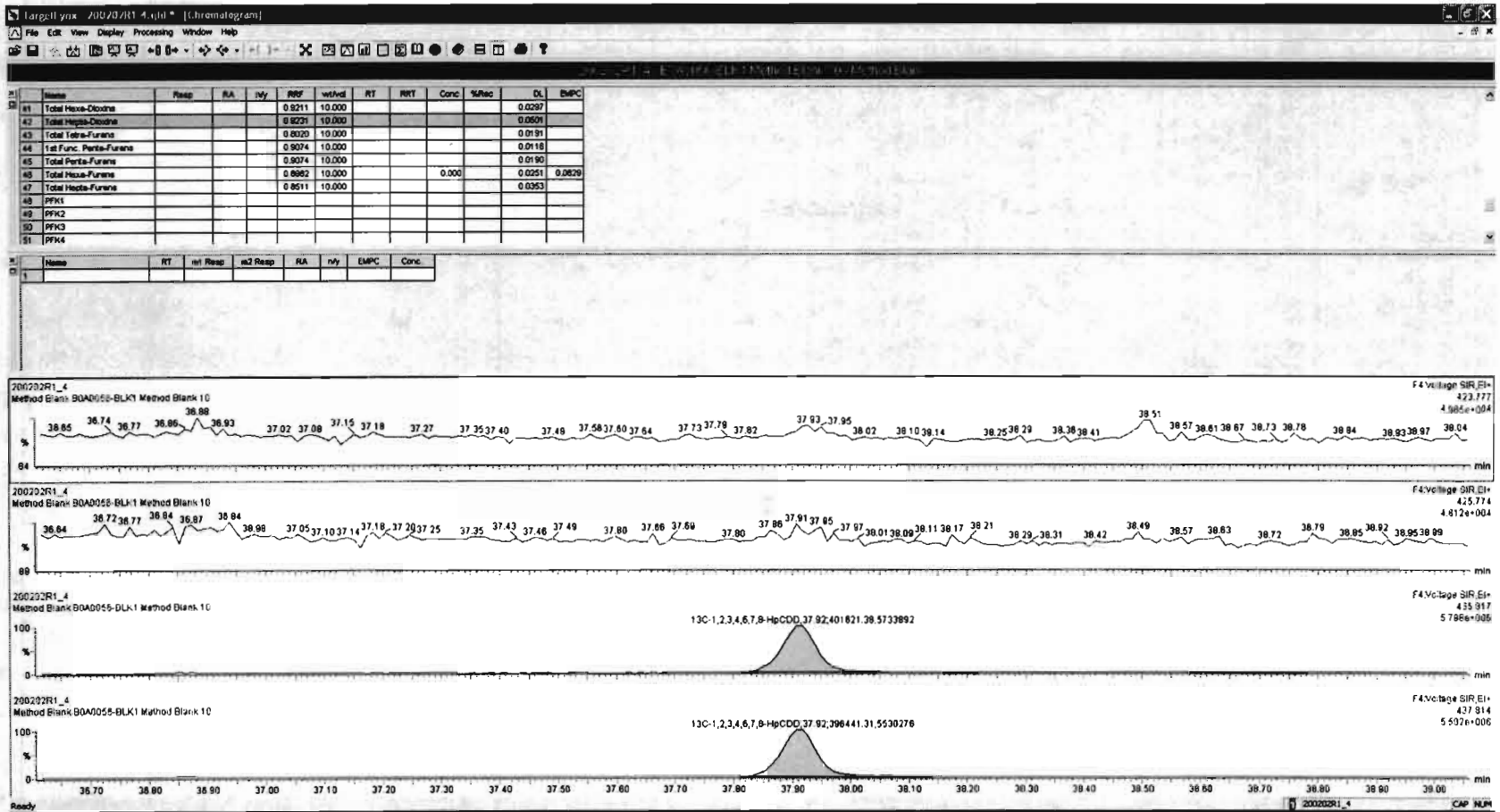
13C-1,2,3,4,6,7,8-HpCDD

200202R1_4



200202R1_4

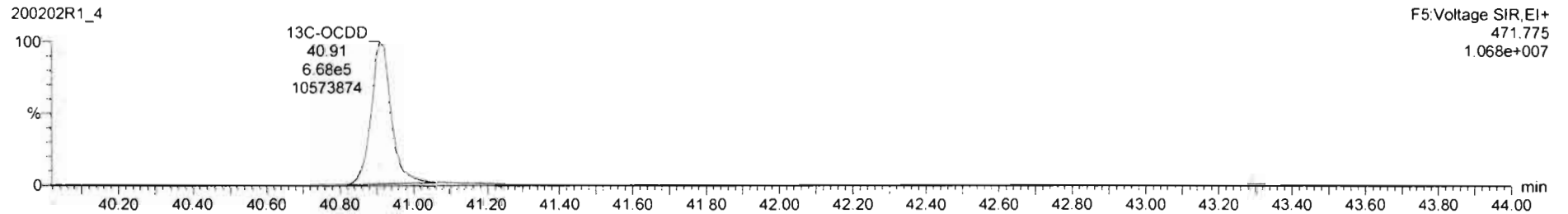
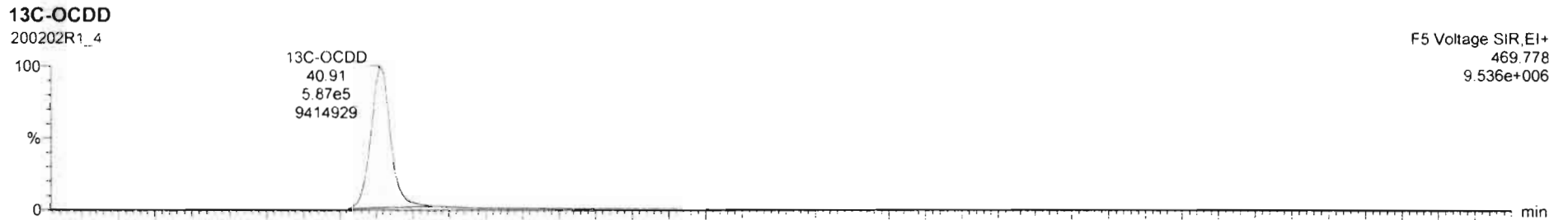
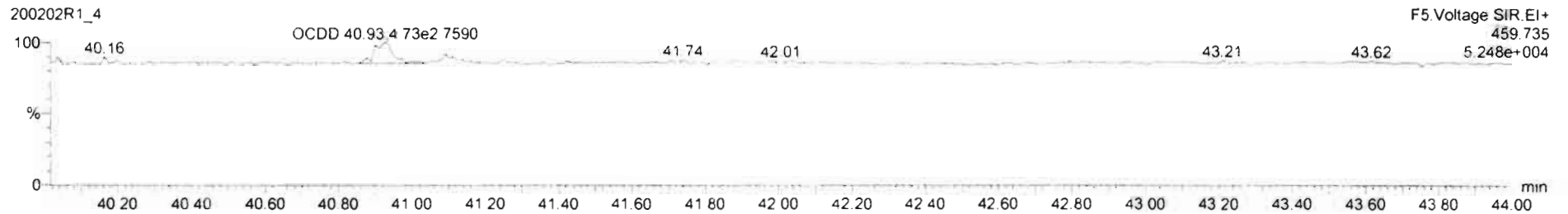
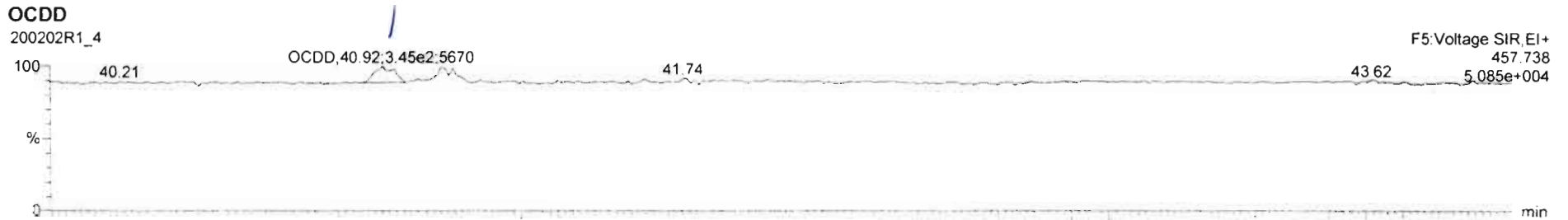


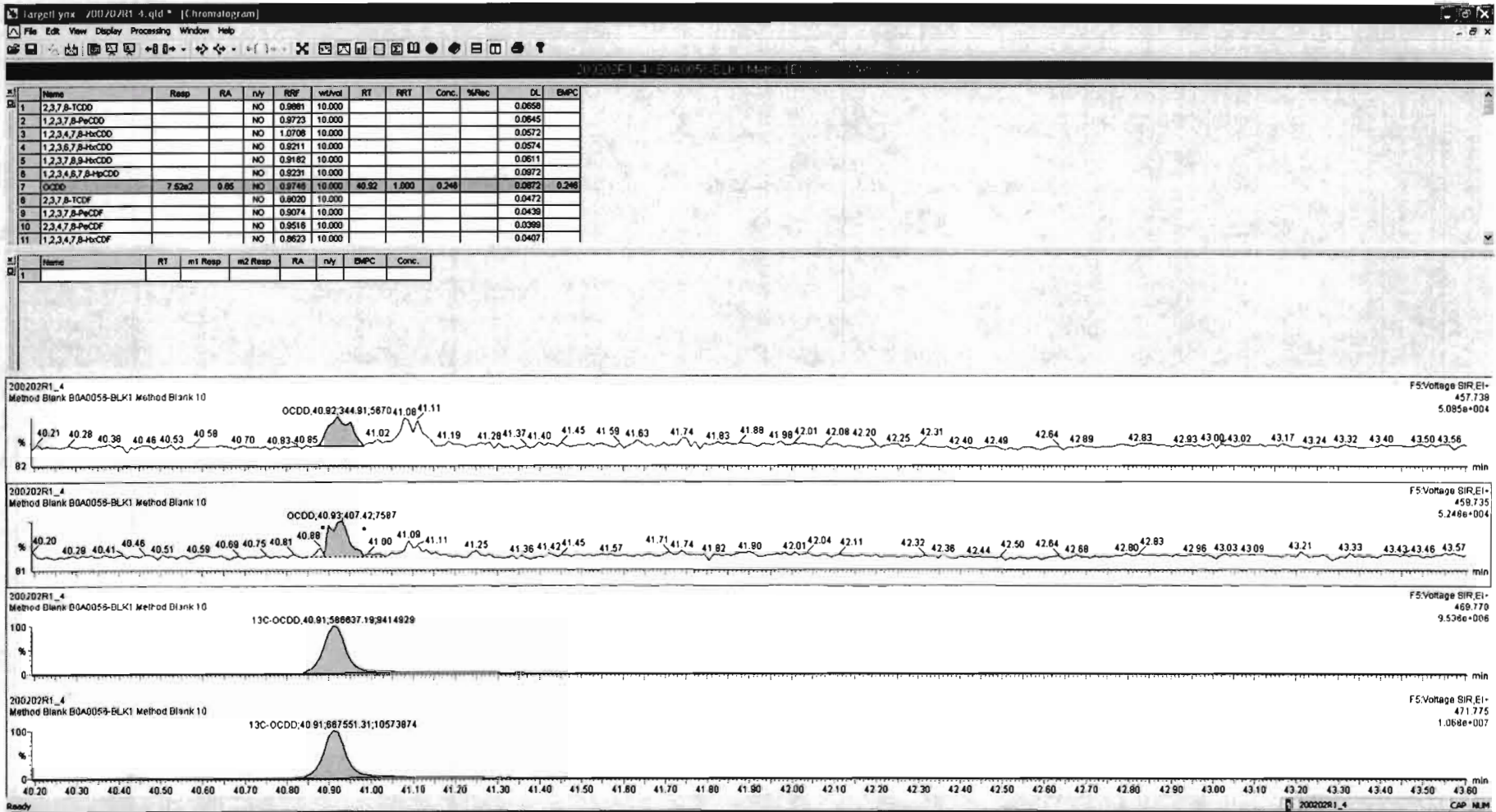


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Last Altered: Monday, February 03, 2020 07:37:17 Pacific Standard Time
Printed: Monday, February 03, 2020 07:37:41 Pacific Standard Time

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank



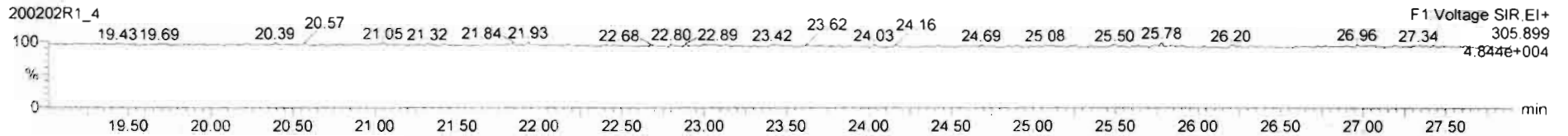


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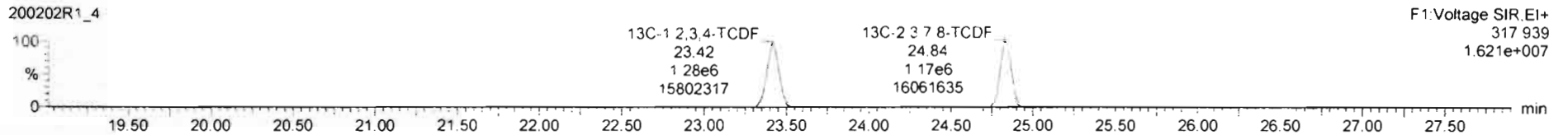
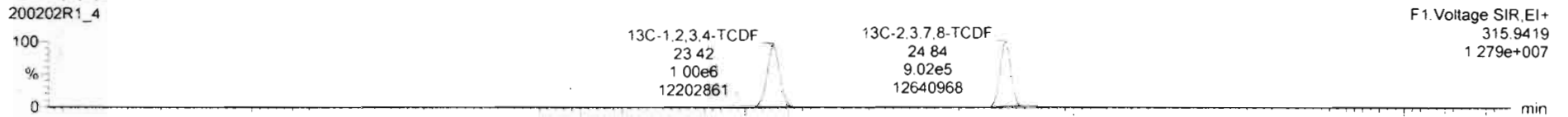
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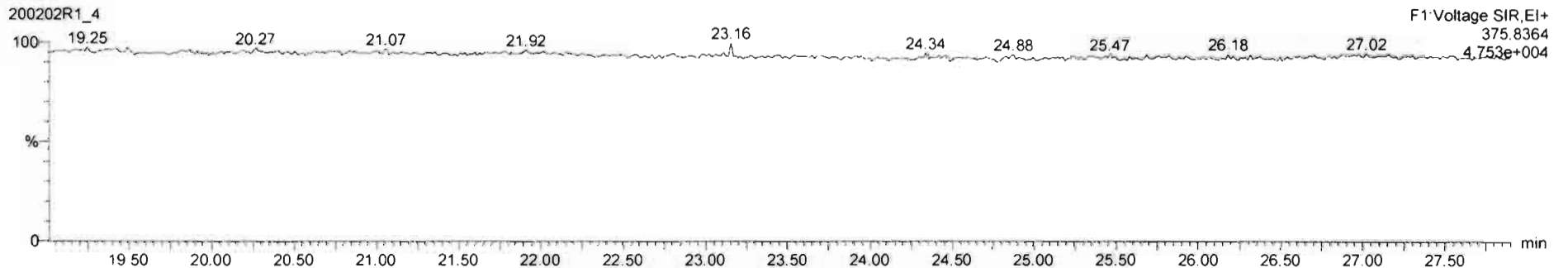
2,3,7,8-TCDF



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

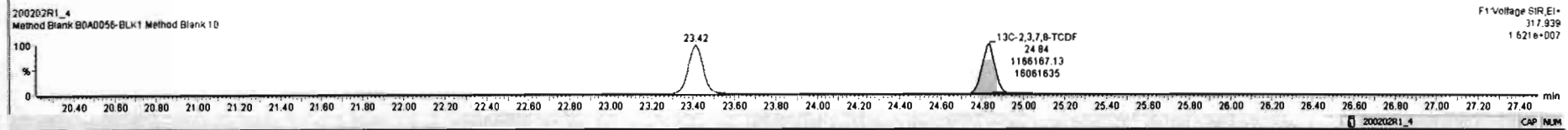
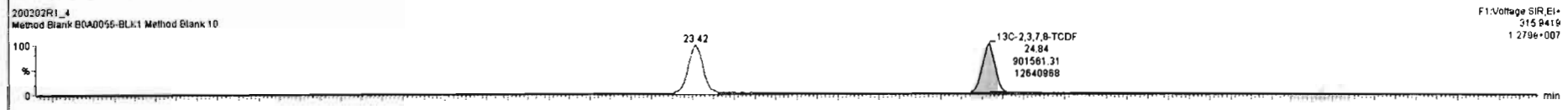
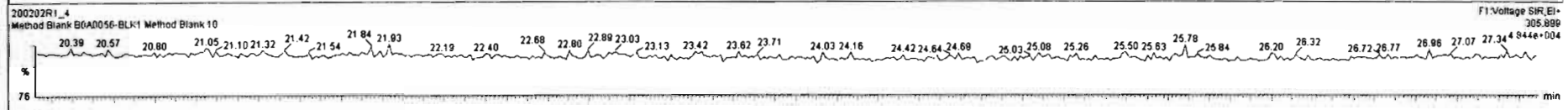
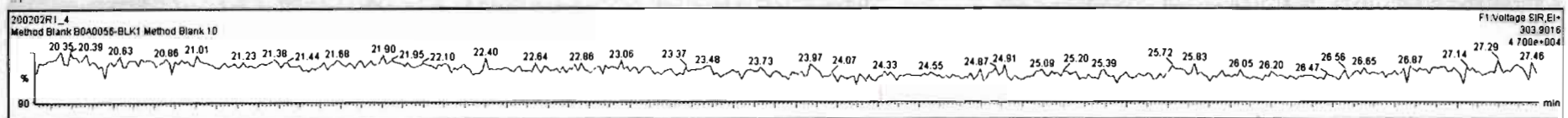


DPE1



Name	Resp	RA	n/y	RSP	wInd	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9211	10.000					0.0297	
42 Total Hepta-Dioxins				0.9231	10.000					0.0501	
43 Total Tetra-Furans				0.9020	10.000					0.0191	
44 1st F.u.c. Penta-Furans				0.9074	10.000					0.0116	
45 Total Penta-Furans				0.9074	10.000					0.0190	
46 Total Hexa-Furans				0.8962	10.000			0.000		0.0251	0.0829
47 Total Hepta-Furans				0.8511	10.000					0.0353	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

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



Dataset: Untitled

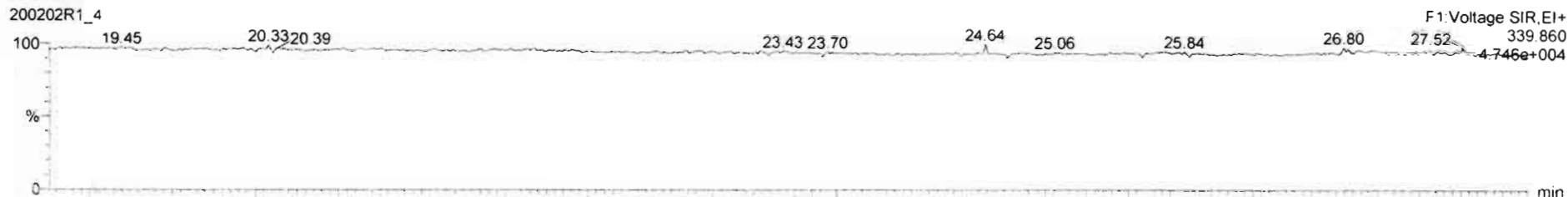
Last Altered: Monday, February 03, 2020 07:37:17 Pacific Standard Time

Printed: Monday, February 03, 2020 07:37:41 Pacific Standard Time

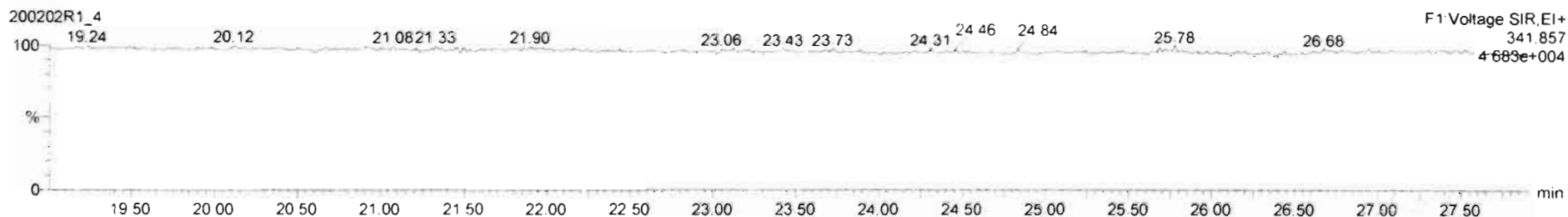
Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

200202R1_4

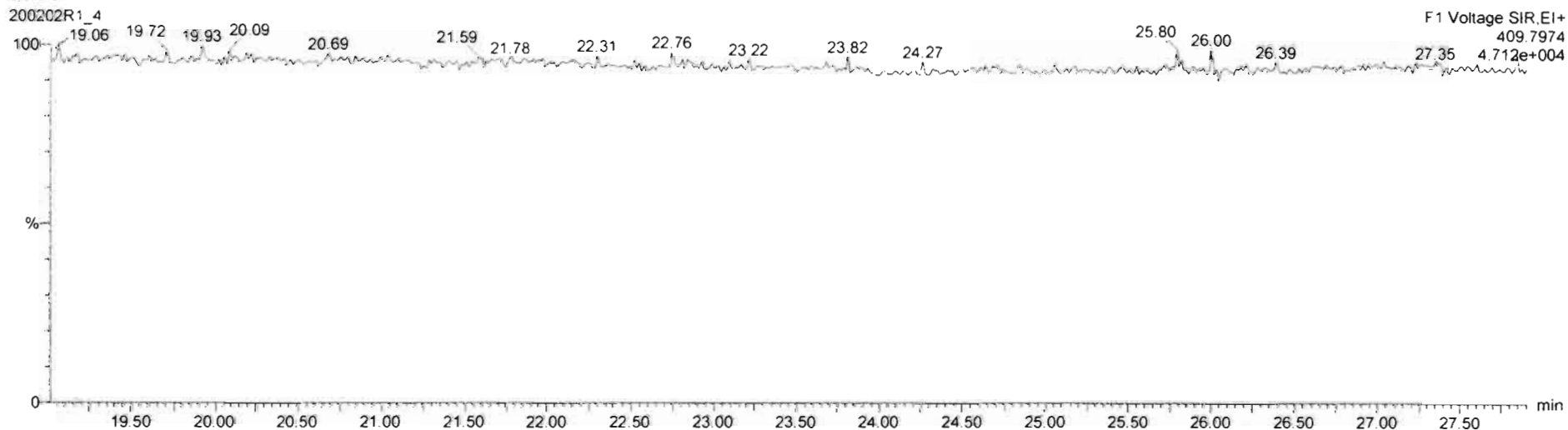


200202R1_4



DPE6

200202R1_4

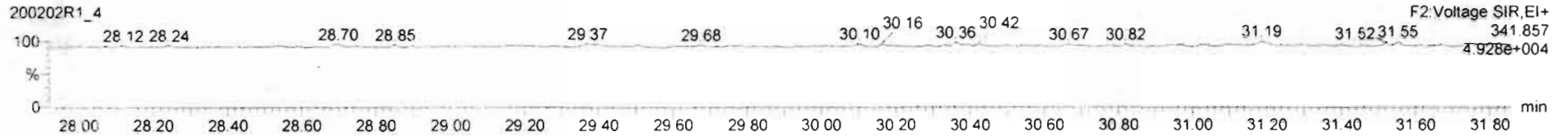
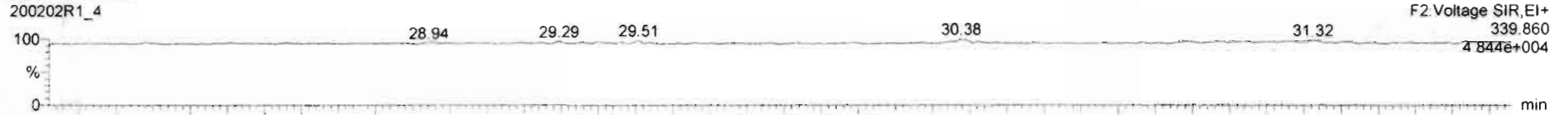


Dataset: Untitled

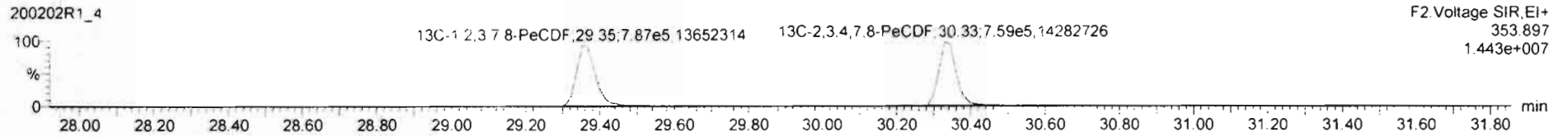
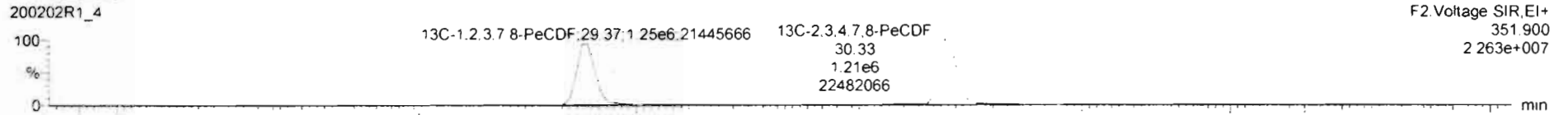
Last Altered: Monday, February 03, 2020 07:37:17 Pacific Standard Time
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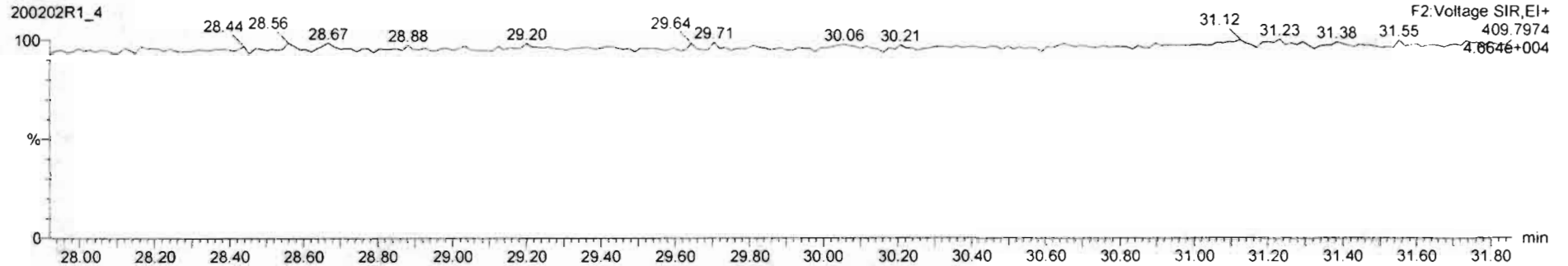
1,2,3,7,8-PeCDF



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

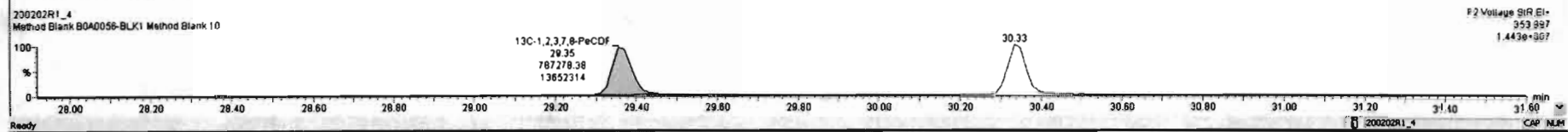
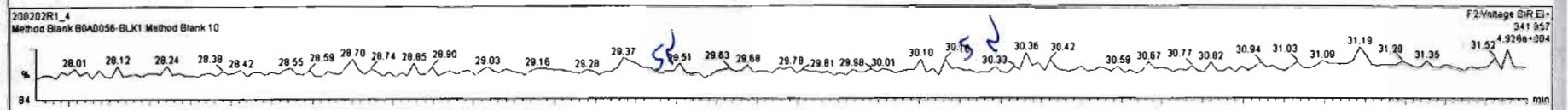
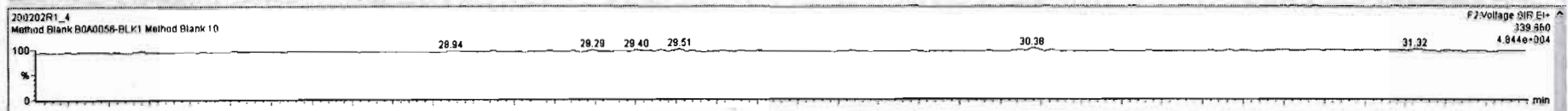


DPE2



Name	Resp	RA	rv/y	RPF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9211	10.000				0.0297		
42 Total Hepta-Dioxins				0.9231	10.000				0.0601		
43 Total Tetra-Furans				0.9020	10.000				0.0191		
44 1st Func. Penta-Furans				0.9074	10.000				0.0116		
45 Total Penta-Furans				0.9074	10.000				0.0190		
46 Total Hexa-Furans				0.8962	10.000			0.000	0.0251	0.0829	
47 Total Hepta-Furans				0.9511	10.000				0.0353		
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	rv/y	EMPC	Conc.



Dataset: Untitled

Last Altered: Monday, February 03, 2020 07:37:17 Pacific Standard Time

Printed: Monday, February 03, 2020 07:37:41 Pacific Standard Time

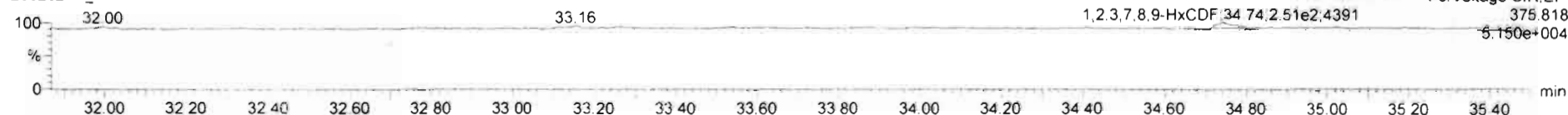
Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

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

200202R1_4

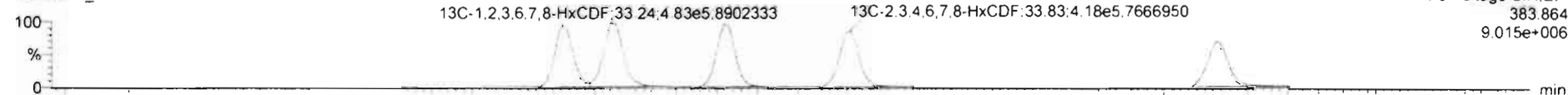


200202R1_4

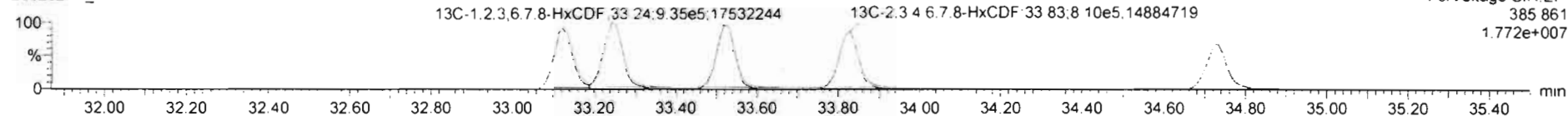


13C-1,2,3,4,7,8-HxCDF

200202R1_4

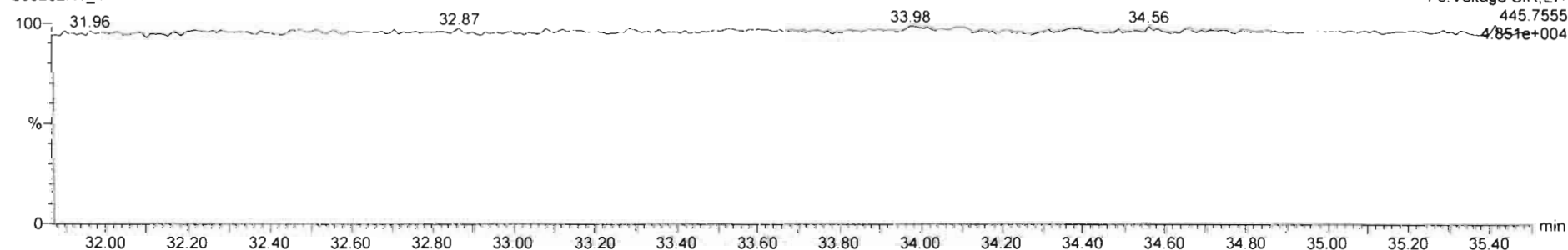


200202R1_4



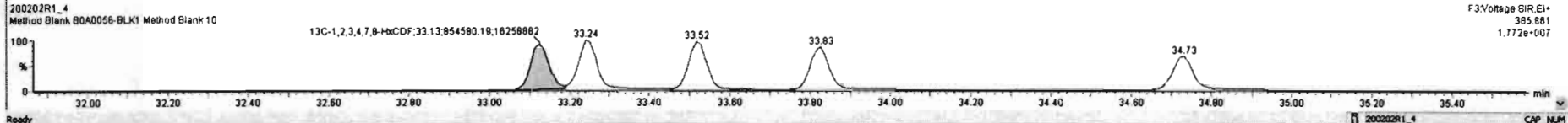
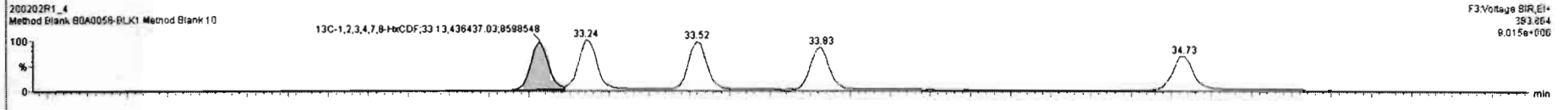
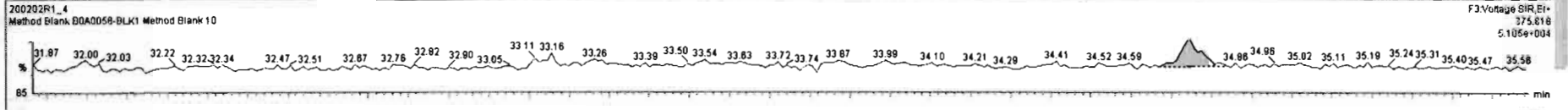
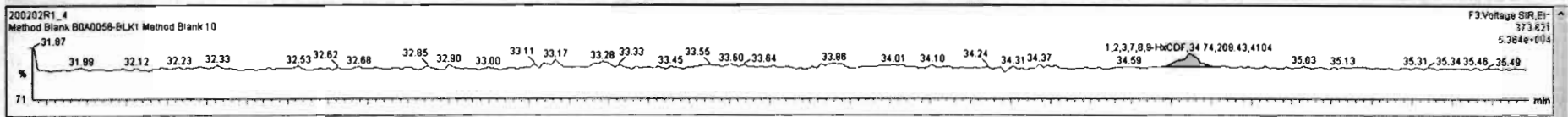
DPE3

200202R1_4



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9211	10.000					0.0297	
42 Total Hepta-Dioxins				0.9231	10.000					0.0501	
43 Total Tetra-Furans				0.8030	10.000					0.0191	
44 1st Func. Penta-Furans				0.9074	10.000					0.0118	
45 Total Penta-Furans				0.9074	10.000					0.0190	
46 Total Hexa-Furans				0.8982	10.000			0.000		0.0261	0.0629
47 Total Hepta-Furans				0.8511	10.000					0.0353	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,7,8-HxCDF	34.74	2.084e2	2.343e2	0.89	YES	0.062817	0.00000

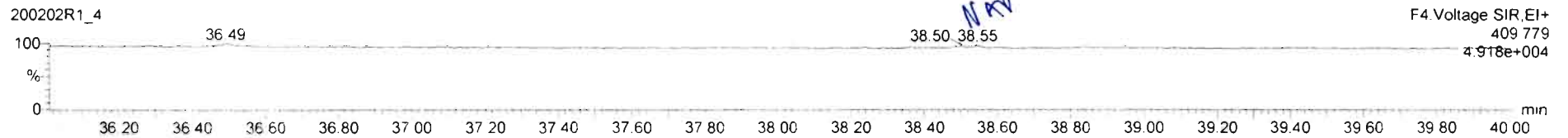
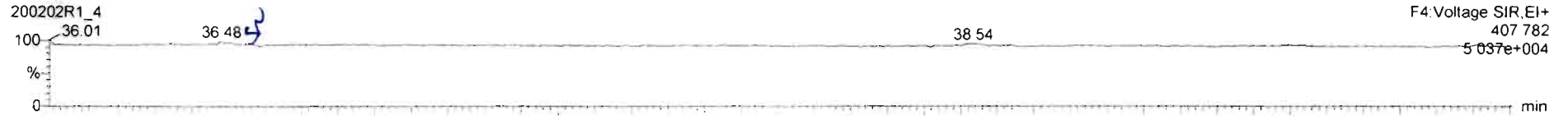


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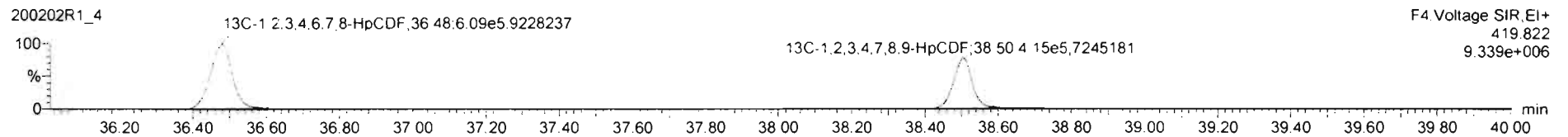
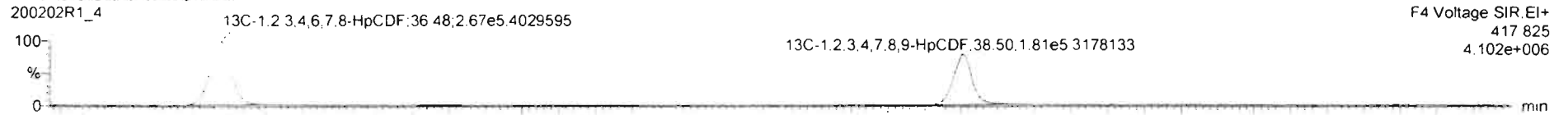
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Printed: Monday, February 03, 2020 07:37:41 Pacific Standard Time

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank

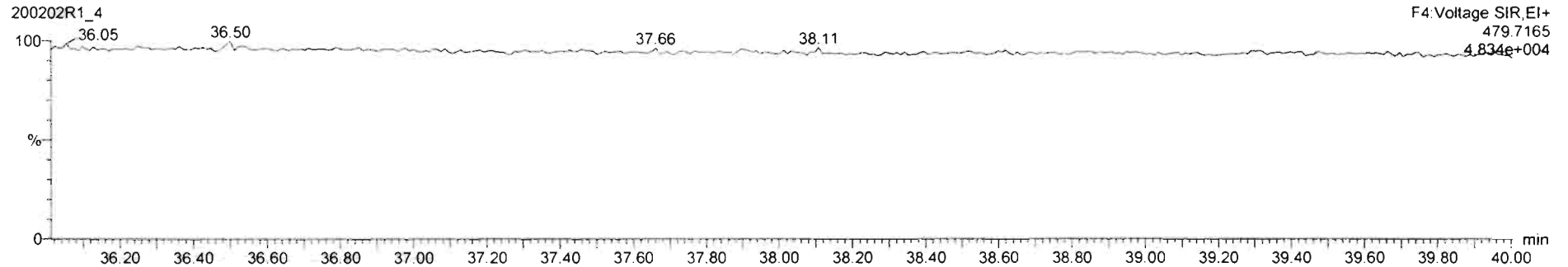
1,2,3,4,6,7,8-HpCDF



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



DPE4



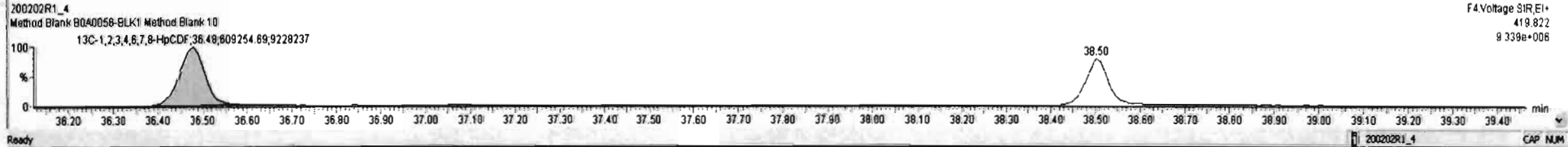
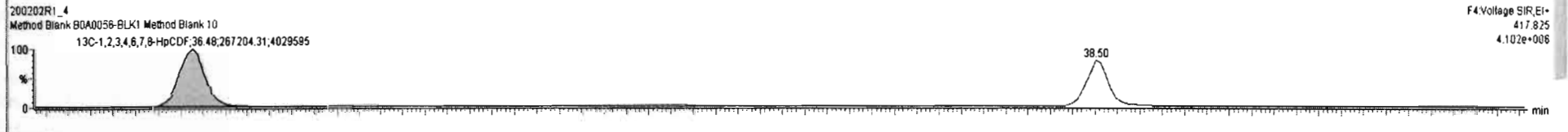
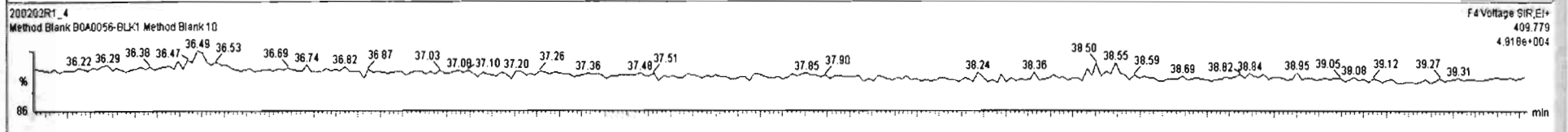
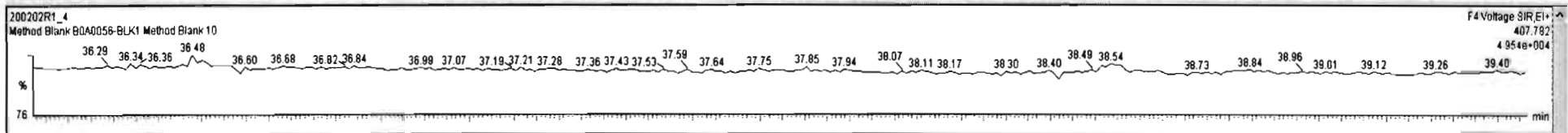
Targetlynx 700202R1_4.qid * [Chromatogram]

File Edit View Display Processing Window Help

200202R1_4 - BQ40056-ELK1 Method Blank 10 - Method Blank

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9211	10.000					0.0297	
42 Total Hepta-Dioxins				0.9231	10.000					0.0501	
43 Total Tetra-Furans				0.8020	10.000					0.0191	
44 1st Func. Penta-Furans				0.9074	10.000					0.0116	
45 Total Penta-Furans				0.9074	10.000					0.0190	
46 Total Hexa-Furans				0.8962	10.000			0.000		0.0251	0.9829
47 Total Hepta-Furans				0.8511	10.000					0.0363	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

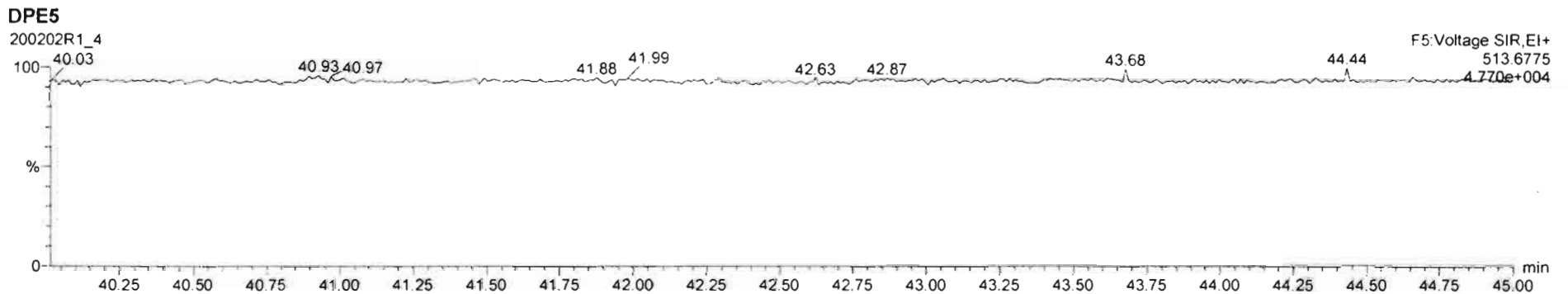
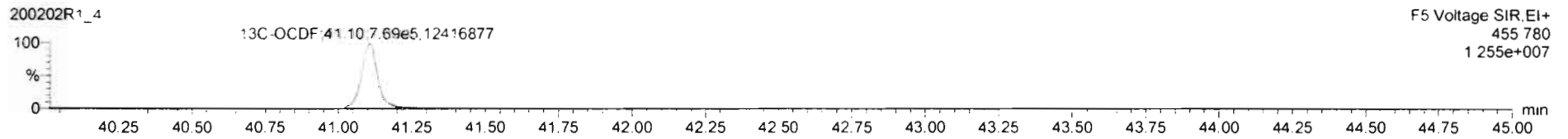
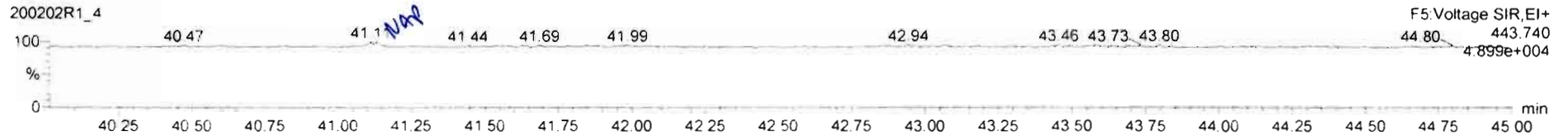
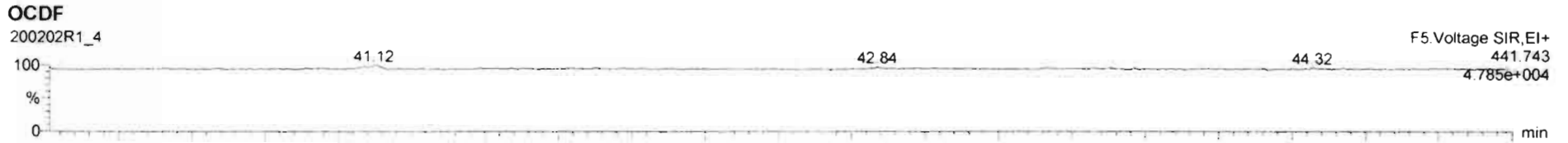
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1							



Dataset: Untitled

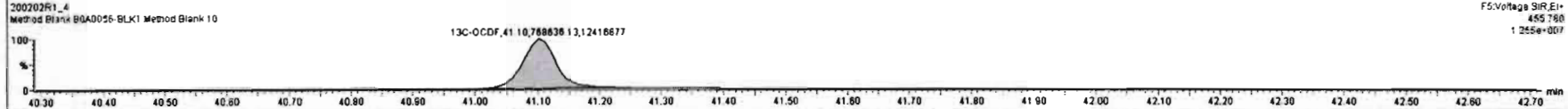
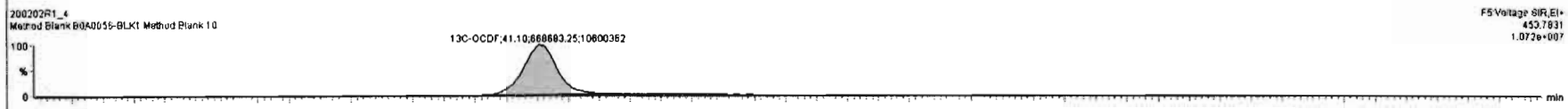
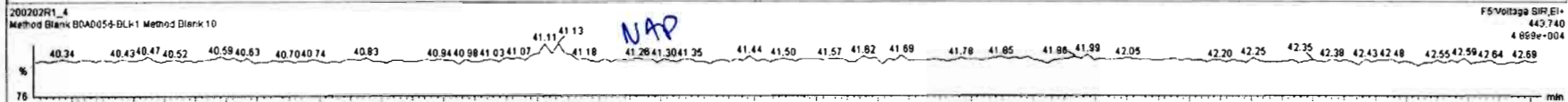
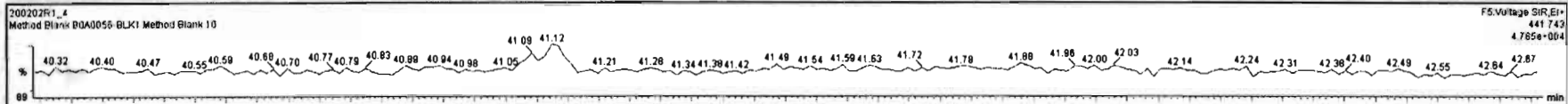
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Printed: Monday, February 03, 2020 07:37:41 Pacific Standard Time

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank



Name	Resp	RA	rvj	RFF	wtVol	RT	RPT	Conc	%Rec	DL	EMPC
9 1,2,3,7,8-PeCDF			NO	0.9074	10.000					0.0438	
10 2,3,4,7,8-PeCDF			NO	0.9516	10.000					0.0399	
11 1,2,3,4,7,8-HxCDF			NO	0.8623	10.000					0.0407	
12 1,2,3,6,7,8-HxCDF			NO	0.8414	10.000					0.0408	
13 2,3,4,6,7,8-HxCDF			NO	0.8082	10.000					0.0442	
14 1,2,3,7,8,9-HxCDF	4.60e2	0.84	YES	0.8578	10.000	34.74	1.000	0.101		0.0593	0.0829
15 1,2,3,4,6,7,8-HpCDF			NO	0.8511	10.000					0.0687	
16 1,2,3,4,7,8,9-HpCDF			NO	0.8799	10.000					0.0732	
17 OCDF			NO	0.9055	10.000					0.0935	
18 13C-2,3,7,8-TCDD	1.52e6	0.80	NO	1.1985	10.000	25.70	1.026	188	94.0	0.183	
19 13C-1,2,3,7,8-PeCDD	1.23e6	0.83	NO	0.9887	10.000	30.84	1.222	186	94.1	0.186	

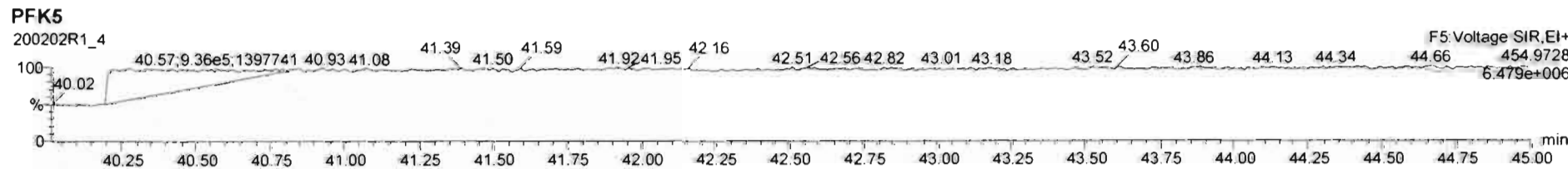
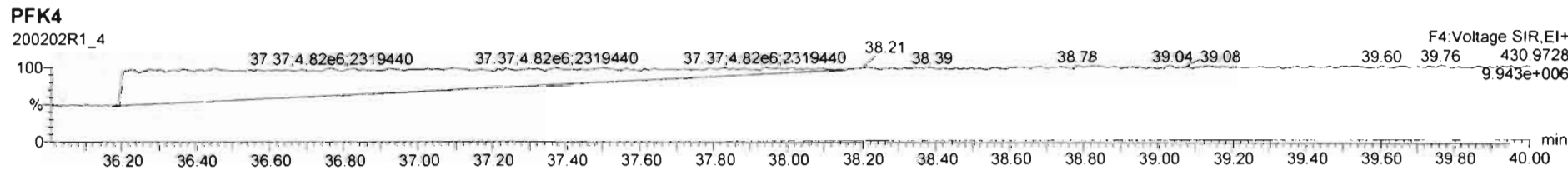
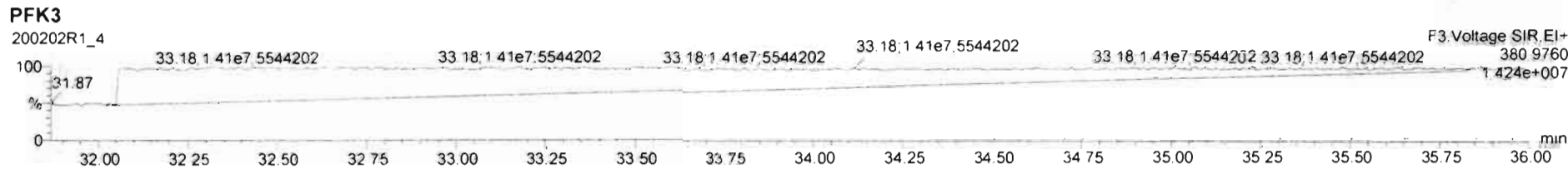
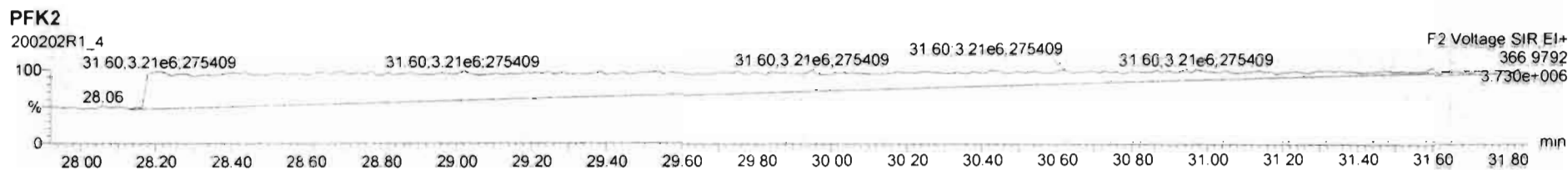
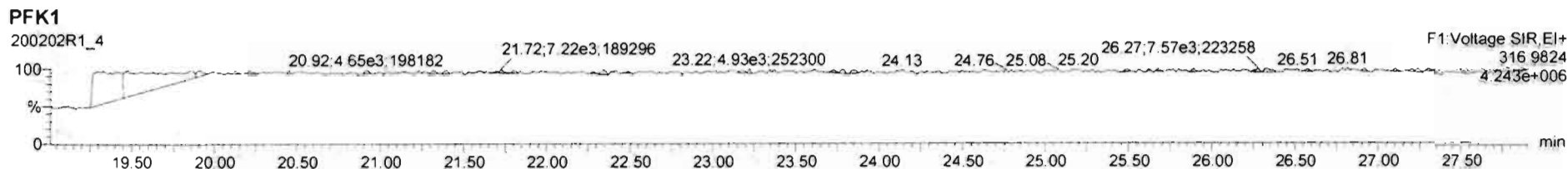
Name	RT	m1 Resp	m2 Resp	RA	rvj	EMPC	Conc
1							



Dataset: Untitled

Last Altered: Monday, February 03, 2020 07:37:17 Pacific Standard Time
Printed: Monday, February 03, 2020 07:37:41 Pacific Standard Time

Name: 200202R1_4, Date: 02-Feb-2020, Time: 12:44:53, ID: B0A0056-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200202R1\200202R1-2.qld

Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time

Printed: Friday, February 07, 2020 11:07:06 Pacific Standard Time

Hc 2-7-2020

C1 03/13/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_2, Date: 02-Feb-2020, Time: 11:11:34, ID: B0A0056-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	1.19e5	0.78	NO	0.988	10.000	25.736	25.72	1.001	1.001	20.075		0.0908	20.1
2	2 1,2,3,7,8-PeCDD	4.47e5	0.63	NO	0.972	10.000	30.658	30.65	1.001	1.000	98.047		0.139	98.0
3	3 1,2,3,4,7,8-HxCDD	4.12e5	1.22	NO	1.07	10.000	33.998	34.01	1.000	1.001	103.56		0.169	104
4	4 1,2,3,6,7,8-HxCDD	4.29e5	1.24	NO	0.921	10.000	34.094	34.10	1.000	1.000	106.04		0.178	106
5	5 1,2,3,7,8,9-HxCDD	3.93e5	1.23	NO	0.918	10.000	34.405	34.38	1.001	1.000	106.14		0.196	106
6	6 1,2,3,4,6,7,8-HpCDD	2.79e5	1.02	NO	0.923	10.000	37.918	37.92	1.000	1.000	102.93		0.433	103
7	7 OCDD	4.60e5	0.89	NO	0.975	10.000	40.910	40.92	1.000	1.000	195.34		0.348	195
8	8 2,3,7,8-TCDF	1.37e5	0.74	NO	0.802	10.000	24.832	24.84	1.001	1.001	21.496		0.0666	21.5
9	9 1,2,3,7,8-PeCDF	7.30e5	1.54	NO	0.907	10.000	29.391	29.39	1.001	1.000	104.05		0.164	104
10	10 2,3,4,7,8-PeCDF	7.47e5	1.51	NO	0.952	10.000	30.377	30.36	1.001	1.000	103.09		0.149	103
11	11 1,2,3,4,7,8-HxCDF	4.43e5	1.17	NO	0.862	10.000	33.125	33.13	1.000	1.000	107.69		0.236	108
12	12 1,2,3,6,7,8-HxCDF	4.97e5	1.17	NO	0.841	10.000	33.252	33.26	1.000	1.001	109.83		0.236	110
13	13 2,3,4,6,7,8-HxCDF	4.67e5	1.20	NO	0.898	10.000	33.851	33.84	1.001	1.001	108.90		0.242	109
14	14 1,2,3,7,8,9-HxCDF	3.83e5	1.15	NO	0.858	10.000	34.722	34.74	1.000	1.001	108.71		0.335	109
15	15 1,2,3,4,6,7,8-HpCDF	3.04e5	0.96	NO	0.851	10.000	36.505	36.49	1.001	1.001	108.76		0.459	109
16	16 1,2,3,4,7,8,9-HpCDF	2.50e5	0.95	NO	0.980	10.000	38.493	38.51	1.000	1.001	111.28		0.540	111
17	17 OCDF	4.76e5	0.85	NO	0.806	10.000	41.102	41.11	1.000	1.000	220.54		0.298	221
18	18 13C-2,3,7,8-TCDD	1.20e6	0.83	NO	1.20	10.000	25.706	25.70	1.026	1.026	160.99	80.5	0.174	
19	19 13C-1,2,3,7,8-PeCDD	9.37e5	0.63	NO	0.967	10.000	30.450	30.64	1.215	1.222	156.10	78.0	0.200	
20	20 13C-1,2,3,4,7,8-HxCDD	7.44e5	1.24	NO	0.874	10.000	33.988	33.99	1.014	1.014	149.69	74.8	0.282	
21	21 13C-1,2,3,6,7,8-HxCDD	8.79e5	1.26	NO	1.05	10.000	34.088	34.09	1.017	1.017	147.77	73.9	0.235	
22	22 13C-1,2,3,7,8,9-HxCDD	8.07e5	1.24	NO	0.974	10.000	34.390	34.37	1.026	1.025	145.61	72.8	0.252	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.88e5	1.06	NO	0.747	10.000	37.943	37.91	1.132	1.131	138.43	69.2	0.485	
24	24 13C-OCDD	9.66e5	0.89	NO	0.707	10.000	40.826	40.91	1.218	1.220	240.57	60.1	0.373	
25	25 13C-2,3,7,8-TCDF	1.59e6	0.77	NO	1.07	10.000	24.886	24.81	0.993	0.990	155.03	77.5	0.273	
26	26 13C-1,2,3,7,8-PeCDF	1.55e6	1.58	NO	1.00	10.000	29.222	29.37	1.166	1.172	160.74	80.4	0.407	
27	27 13C-2,3,4,7,8-PeCDF	1.52e6	1.57	NO	0.962	10.000	30.174	30.35	1.204	1.211	164.92	82.5	0.424	
28	28 13C-1,2,3,4,7,8-HxCDF	9.54e5	0.51	NO	1.05	10.000	33.116	33.13	0.988	0.988	159.91	80.0	0.388	
29	29 13C-1,2,3,6,7,8-HxCDF	1.08e6	0.51	NO	1.19	10.000	33.217	33.24	0.991	0.992	159.15	79.6	0.342	
30	30 13C-2,3,4,6,7,8-HxCDF	9.54e5	0.51	NO	1.07	10.000	33.824	33.82	1.009	1.009	157.38	78.7	0.381	
31	31 13C-1,2,3,7,8,9-HxCDF	8.21e5	0.51	NO	0.922	10.000	34.725	34.72	1.036	1.036	156.60	78.3	0.441	
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.56e5	0.44	NO	0.767	10.000	36.468	36.47	1.088	1.088	150.41	75.2	0.387	

Dataset: U:\VG12.PRO\Results\200202R1\200202R1-2.qld

Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time

Printed: Friday, February 07, 2020 11:07:06 Pacific Standard Time

Name: 200202R1_2, Date: 02-Feb-2020, Time: 11:11:34, ID: B0A0056-BS1 OPR 10, Description: OPR

	# Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.59e5	0.43	NO	0.552	10.000	38.479	38.49	1.148	1.148	146.27	73.1	0.538	
34	34 13C-OCDF	1.07e6	0.87	NO	0.789	10.000	41.060	41.10	1.225	1.226	238.70	59.7	0.322	
35	35 37Cl-2,3,7,8-TCDD	5.26e5			1.18	10.000	25.738	25.72	1.027	1.026	71.961	90.0	0.0427	
36	36 13C-1,2,3,4-TCDD	1.24e6	0.80	NO	1.00	10.000	25.080	25.06	1.000	1.000	200.00	100	0.209	
37	37 13C-1,2,3,4-TCDF	1.92e6	0.79	NO	1.00	10.000	23.420	23.39	1.000	1.000	200.00	100	0.291	
38	38 13C-1,2,3,4,6,9-HxCDF	1.14e6	0.51	NO	1.00	10.000	33.520	33.52	1.000	1.000	200.00	100	0.407	

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Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time

Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

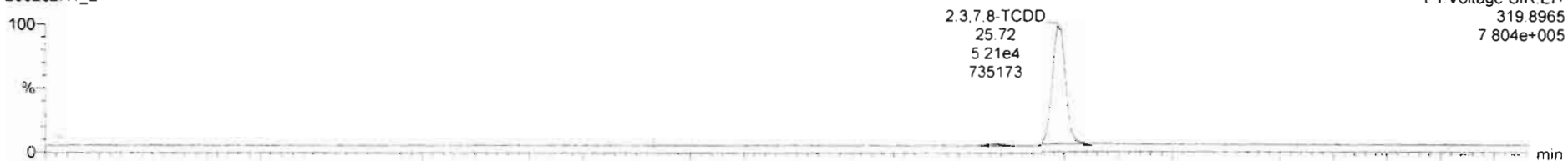
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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

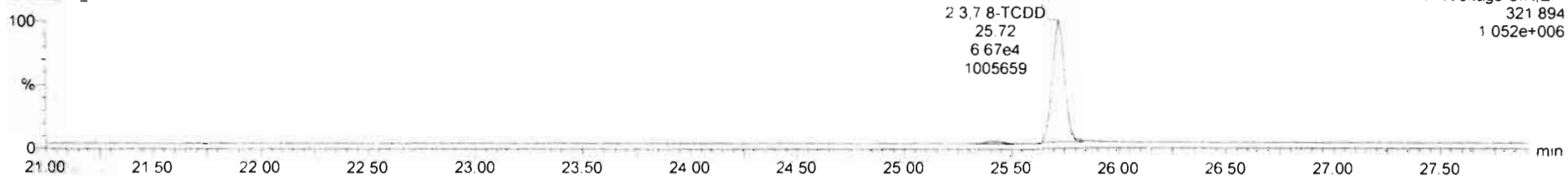
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2,3,7,8-TCDD

200202R1_2

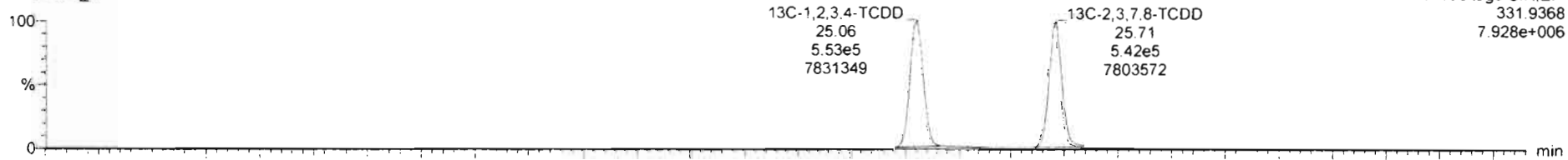


200202R1_2

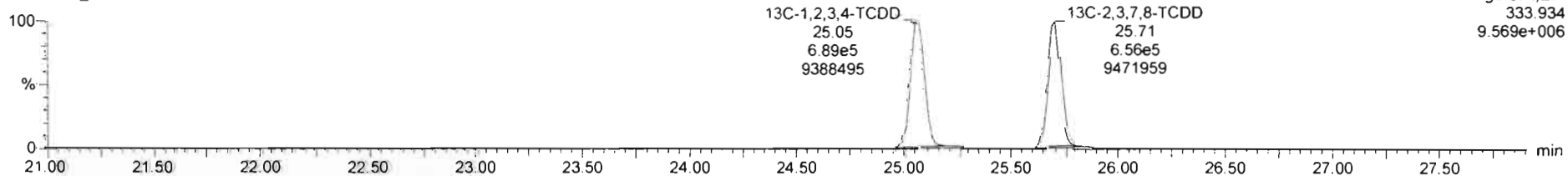


13C-2,3,7,8-TCDD

200202R1_2



200202R1_2



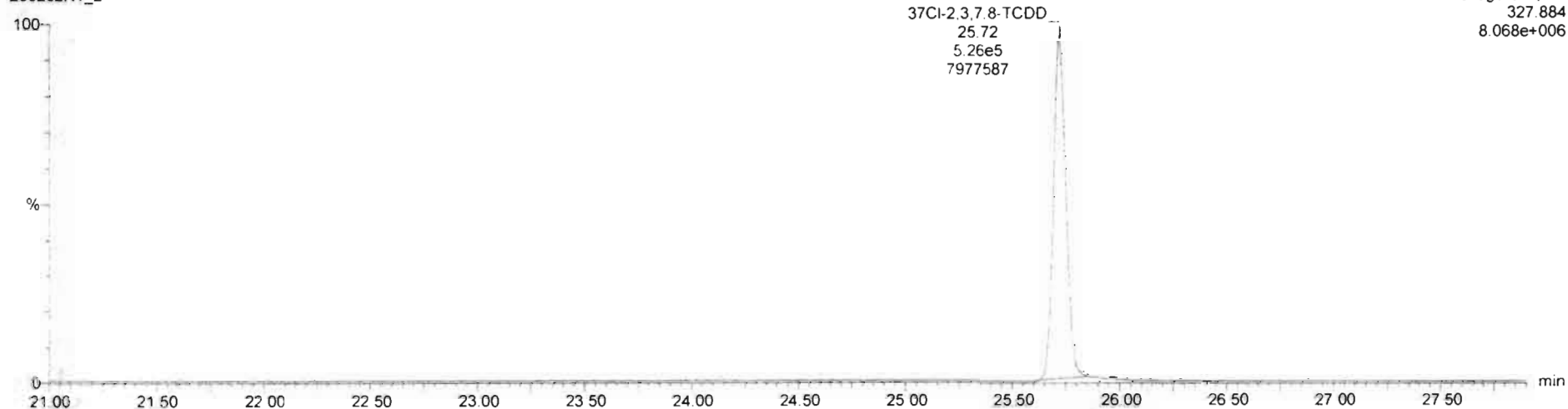
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Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time
Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

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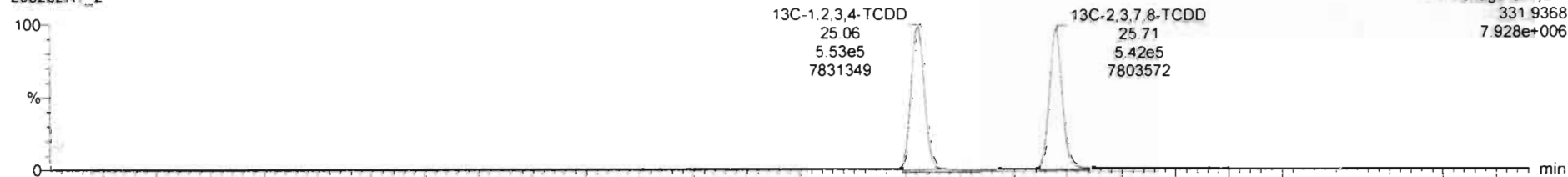
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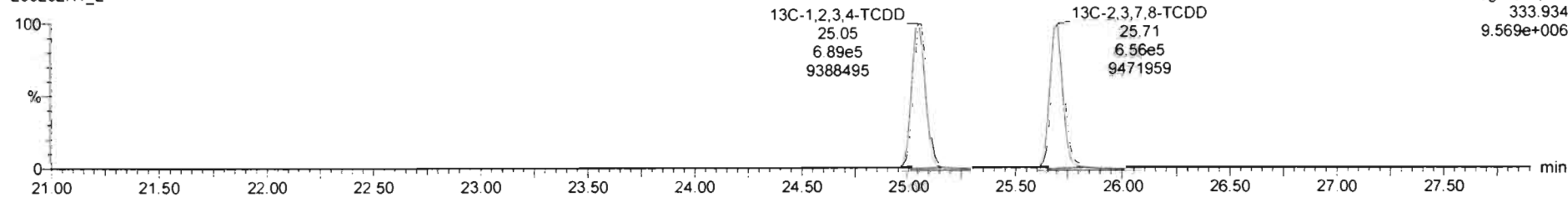


13C-1,2,3,4-TCDD

200202R1_2



200202R1_2



Dataset: Untitled

Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time
Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

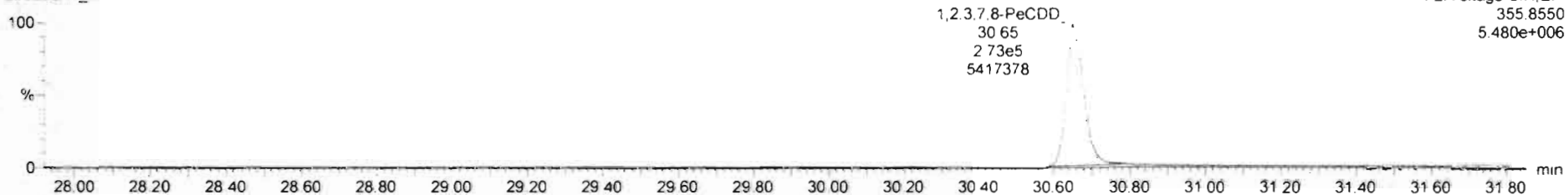
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1,2,3,7,8-PeCDD

200202R1_2

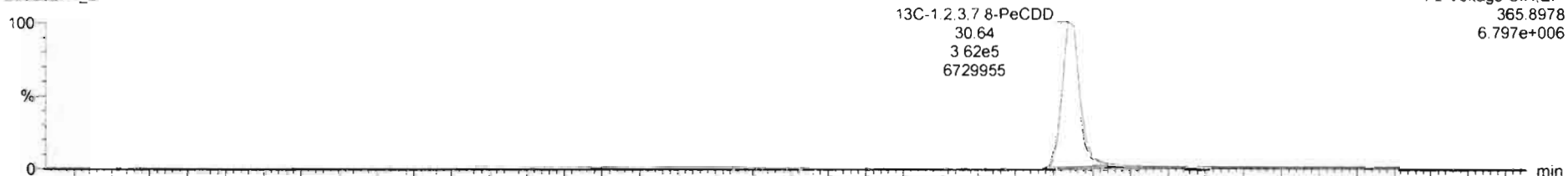


200202R1_2

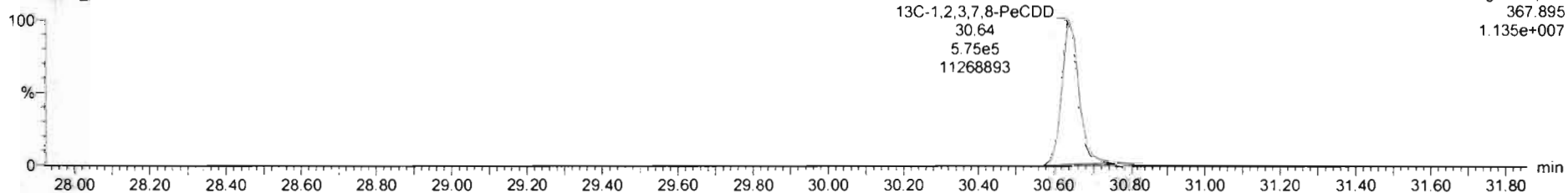


13C-1,2,3,7,8-PeCDD

200202R1_2



200202R1_2



Dataset: Untitled

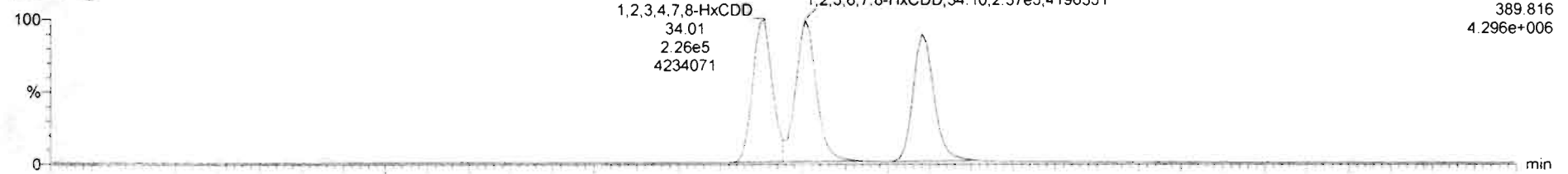
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Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

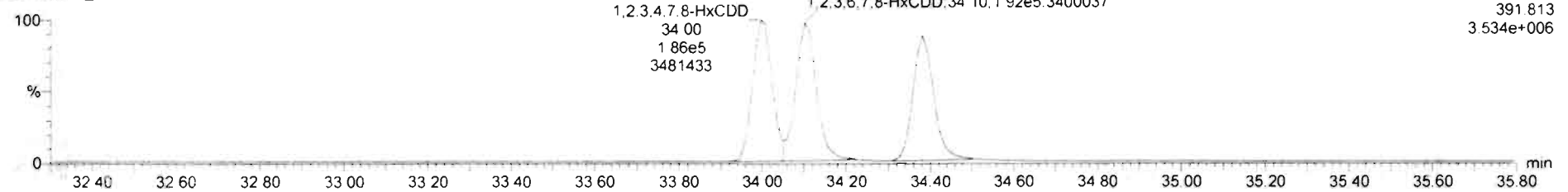
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1,2,3,4,7,8-HxCDD

200202R1_2

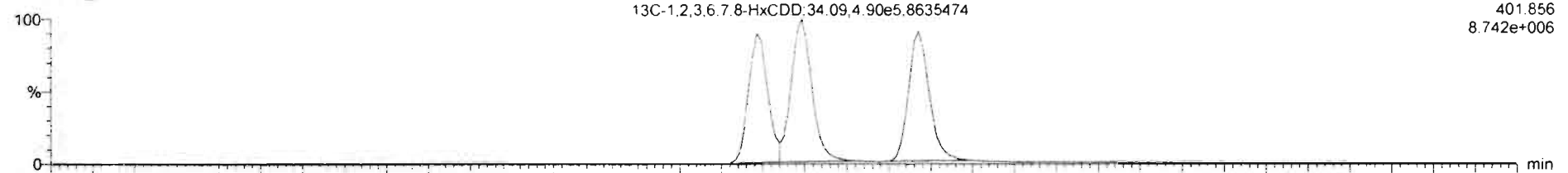


200202R1_2

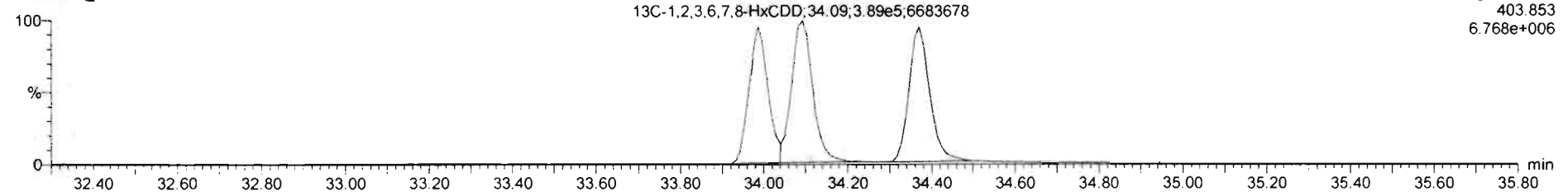


13C-1,2,3,4,7,8-HxCDD

200202R1_2



200202R1_2



Dataset: Untitled

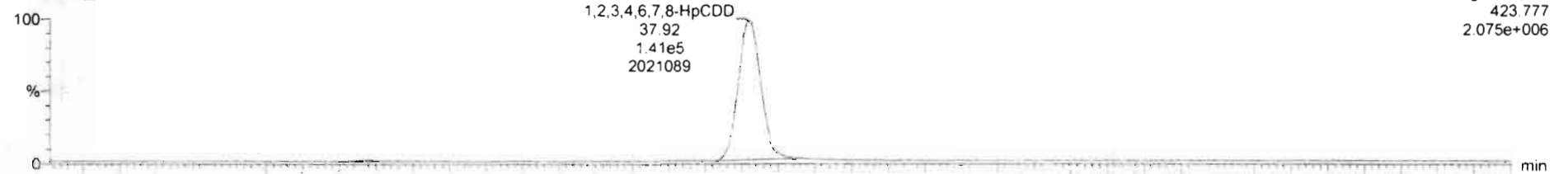
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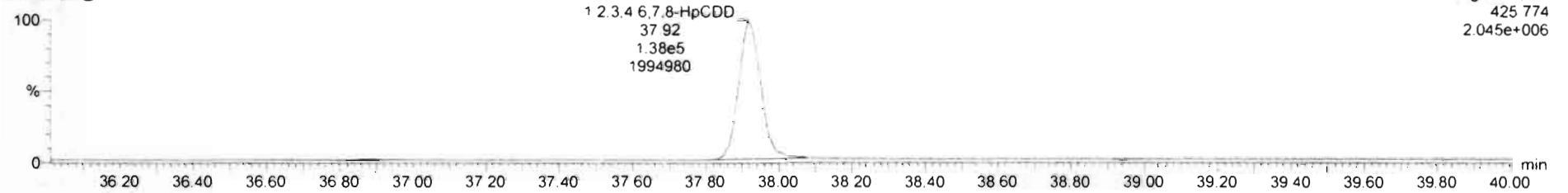
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1,2,3,4,6,7,8-HpCDD

200202R1_2

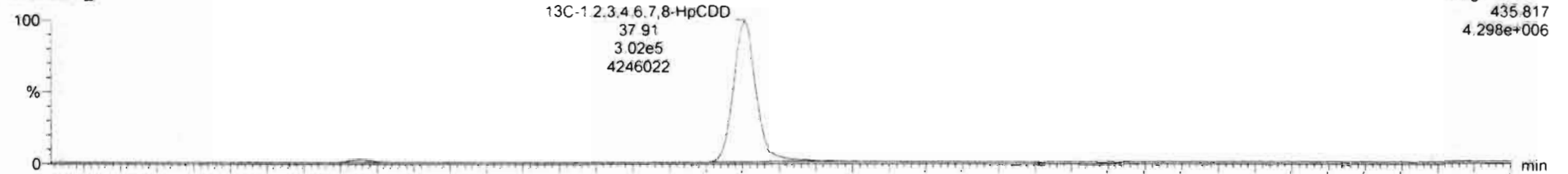


200202R1_2

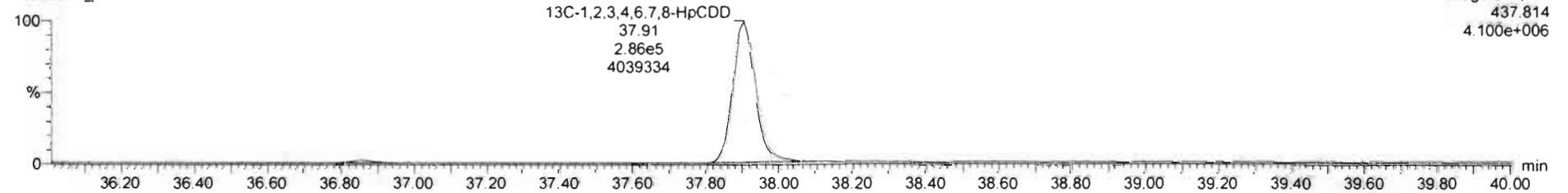


13C-1,2,3,4,6,7,8-HpCDD

200202R1_2



200202R1_2

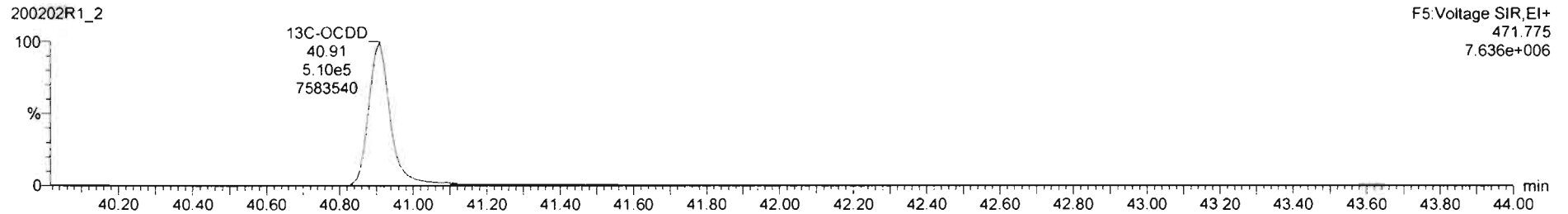
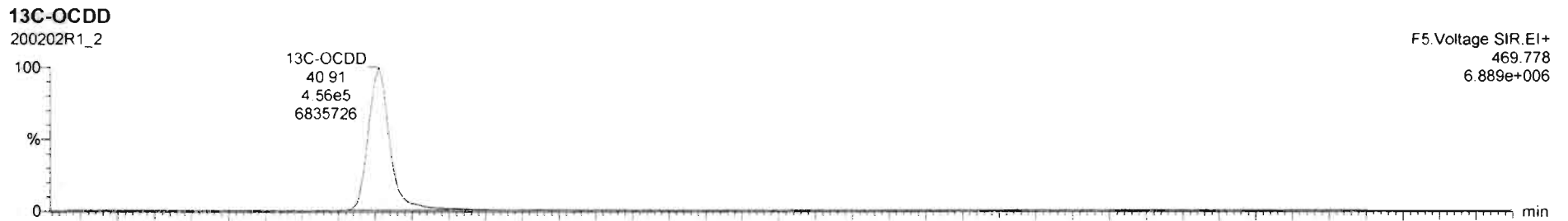
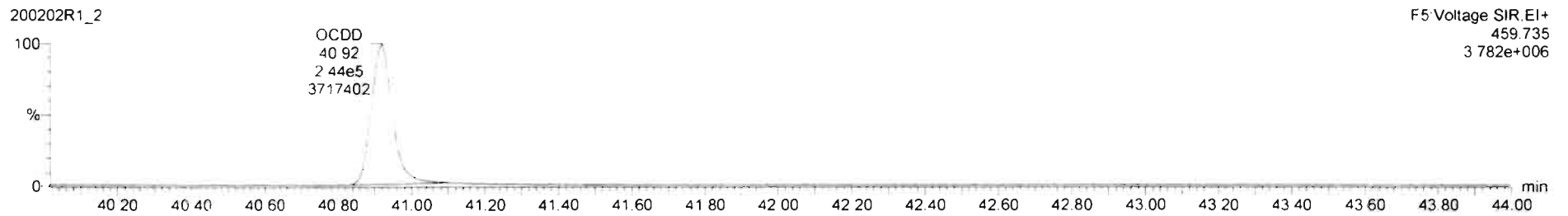


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Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time
Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

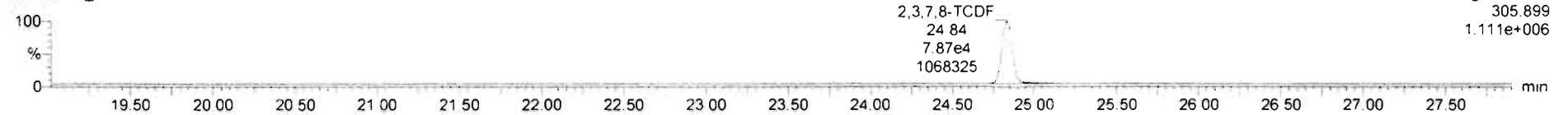
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2,3,7,8-TCDF

200202R1_2

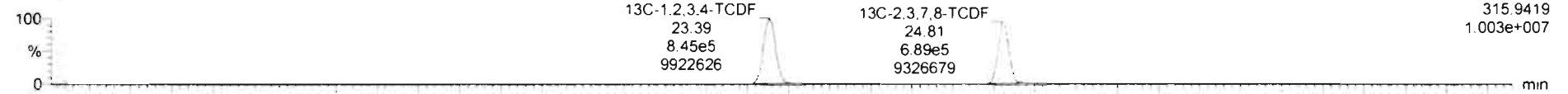


200202R1_2

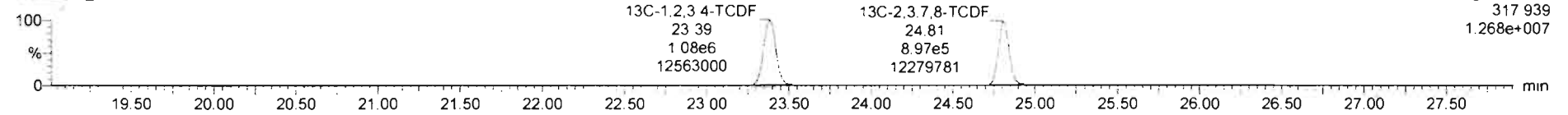


13C-2,3,7,8-TCDF

200202R1_2

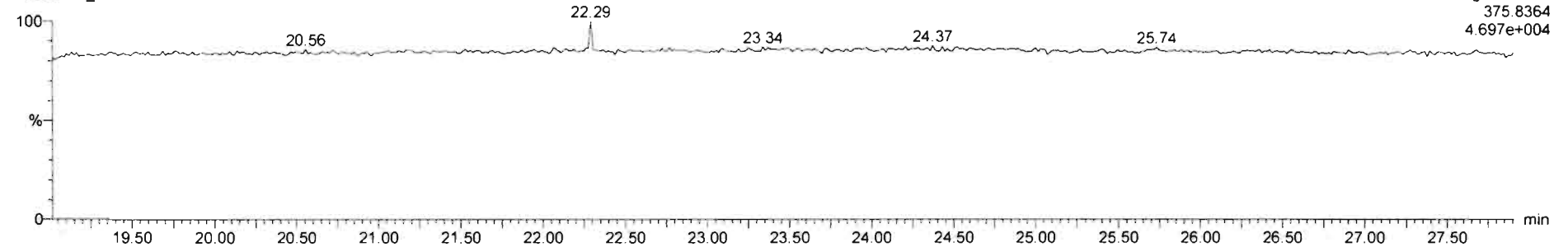


200202R1_2



DPE1

200202R1_2



Dataset: Untitled

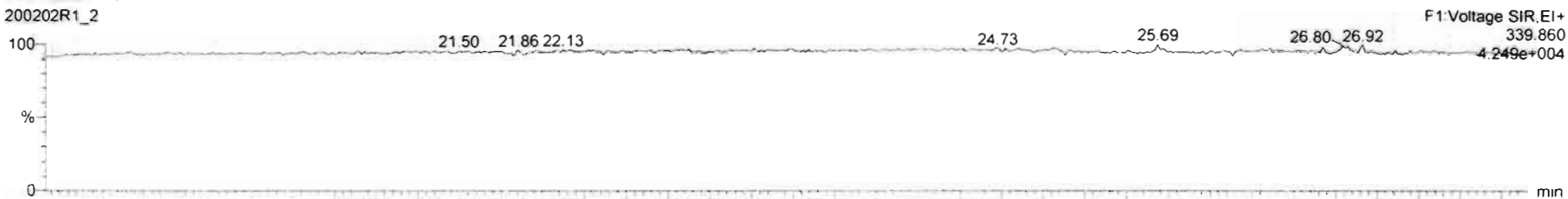
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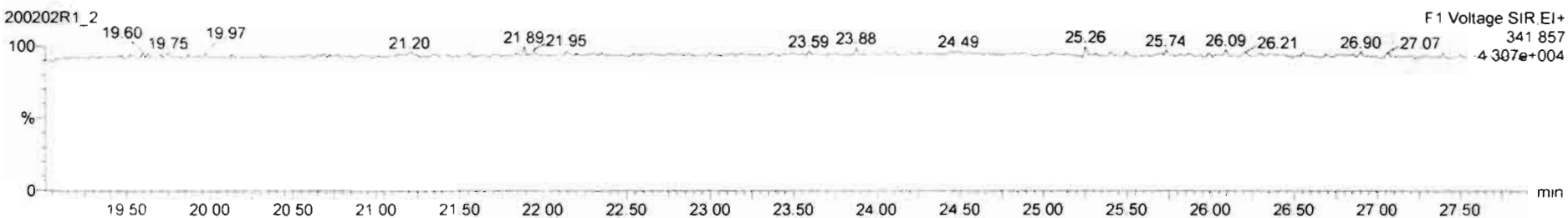
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200202R1_2

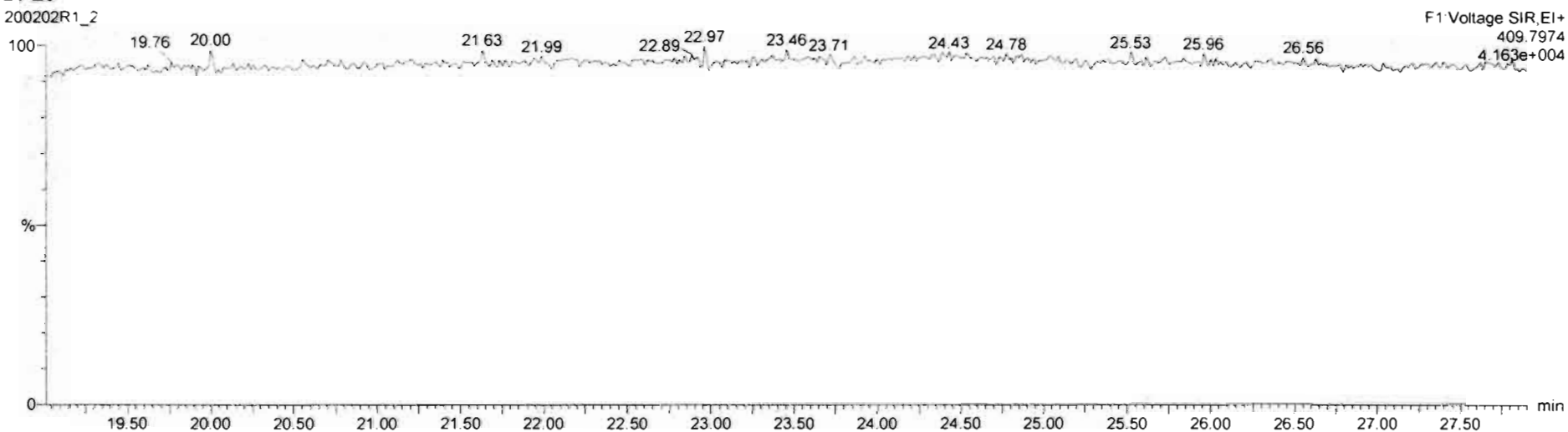


200202R1_2



DPE6

200202R1_2



Dataset: Untitled

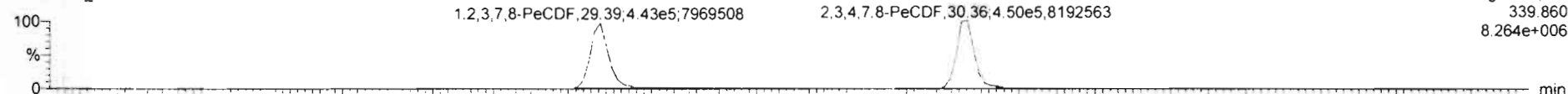
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Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

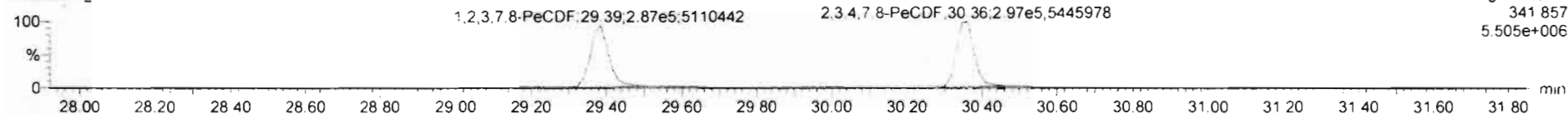
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1,2,3,7,8-PeCDF

200202R1_2

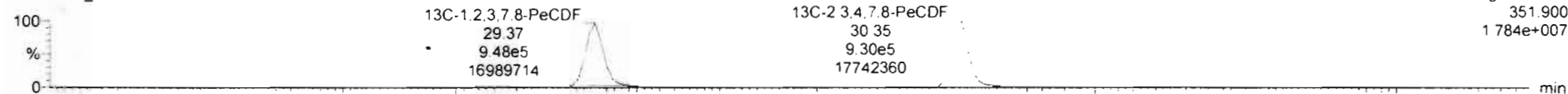


200202R1_2

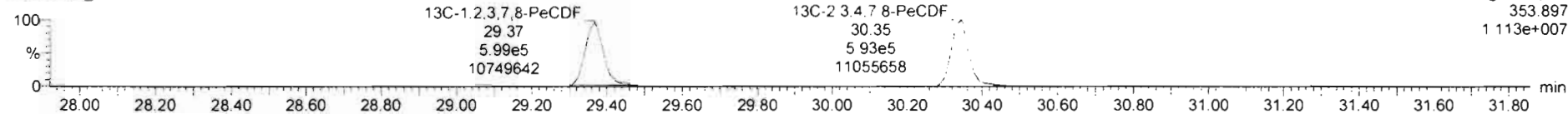


13C-1,2,3,7,8-PeCDF

200202R1_2

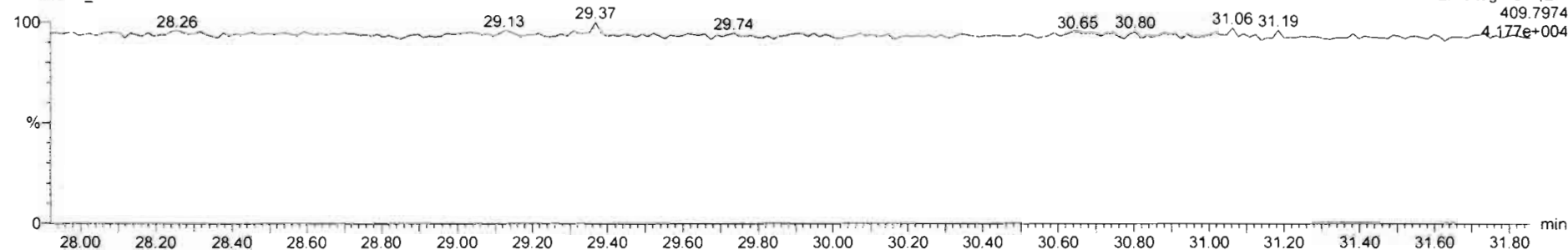


200202R1_2



DPE2

200202R1_2



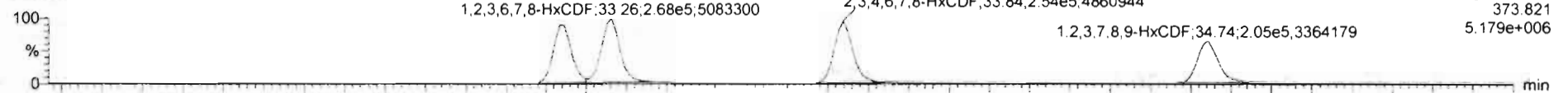
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Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time
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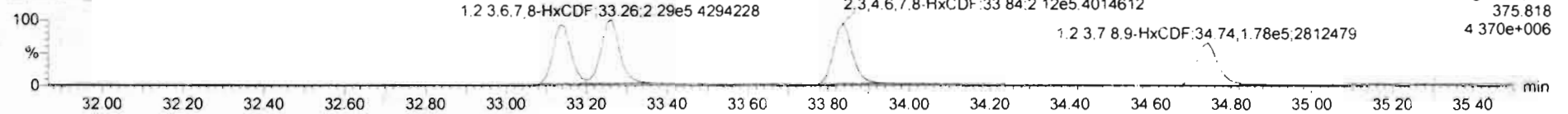
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1,2,3,4,7,8-HxCDF

200202R1_2

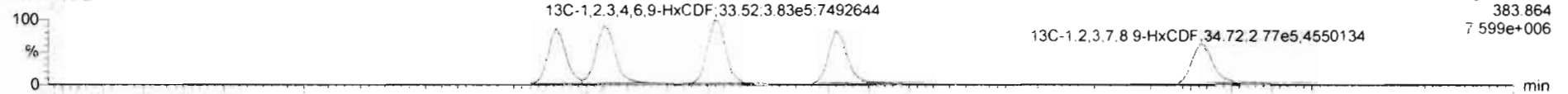


200202R1_2

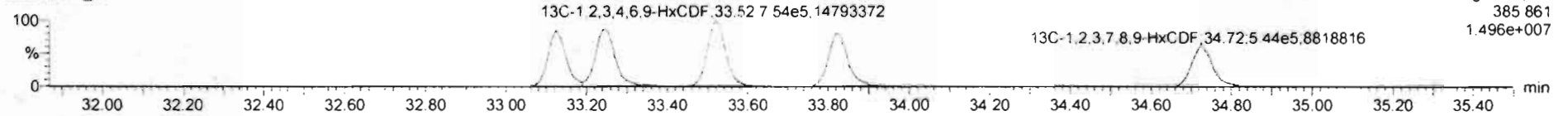


13C-1,2,3,4,7,8-HxCDF

200202R1_2

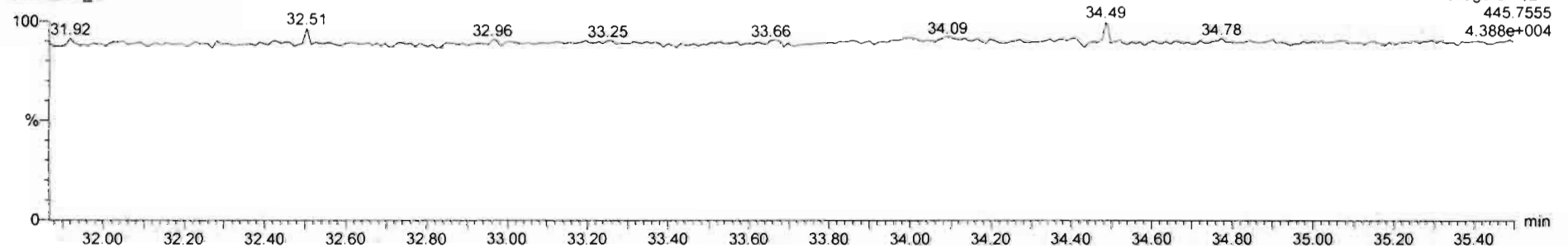


200202R1_2



DPE3

200202R1_2



Dataset: Untitled

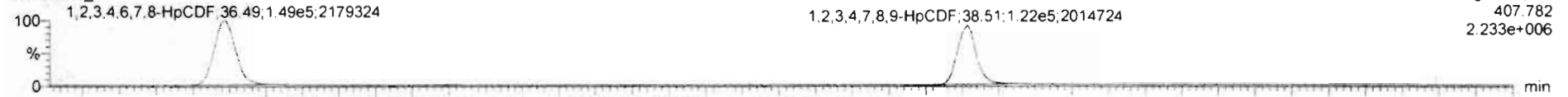
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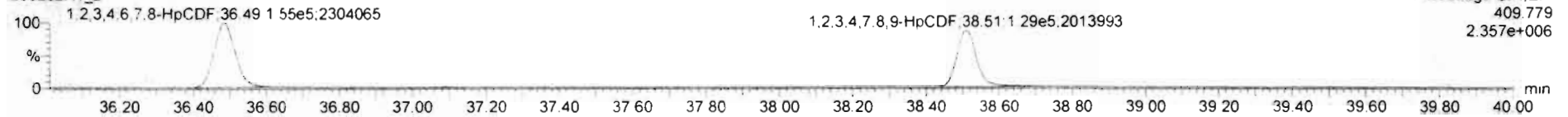
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1,2,3,4,6,7,8-HpCDF

200202R1_2

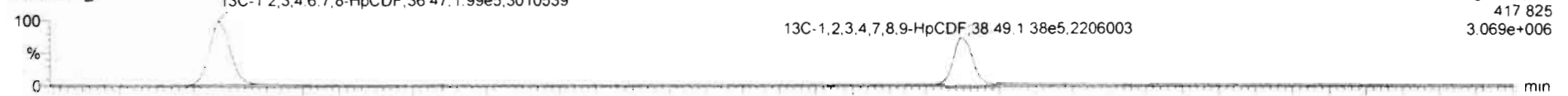


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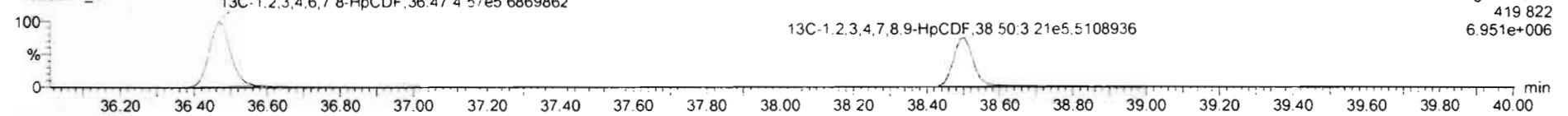


13C-1,2,3,4,6,7,8-HpCDF

200202R1_2

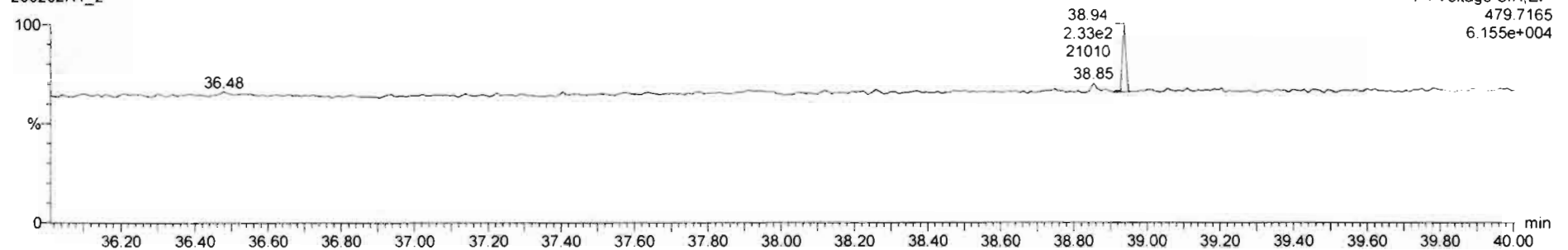


200202R1_2



DPE4

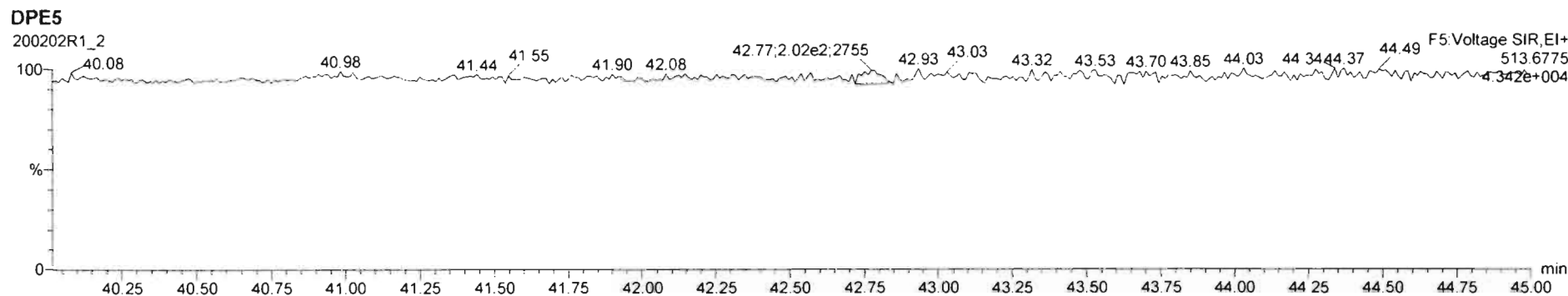
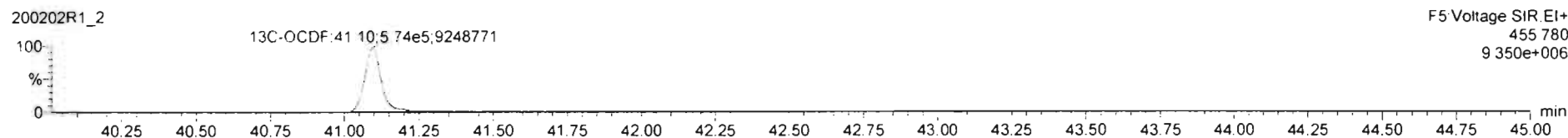
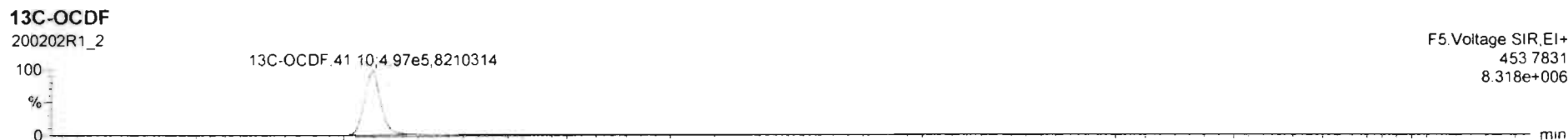
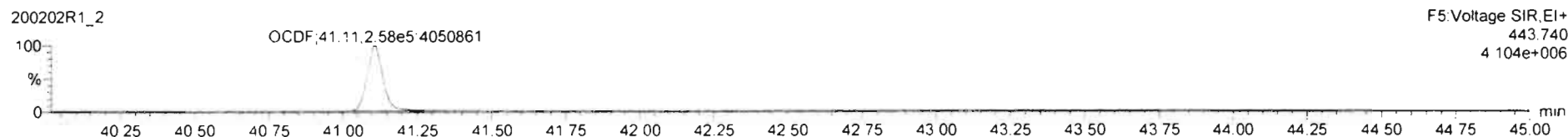
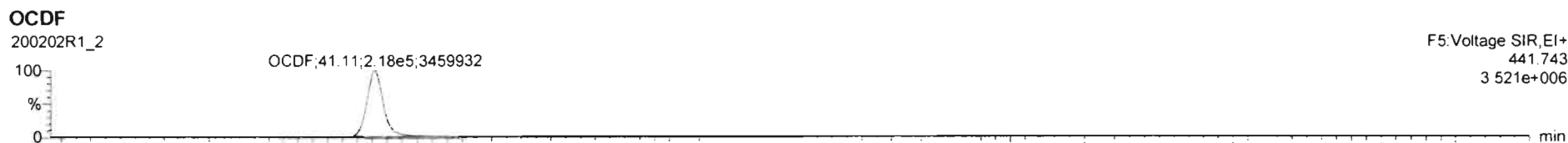
200202R1_2



Dataset: Untitled

Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time
Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

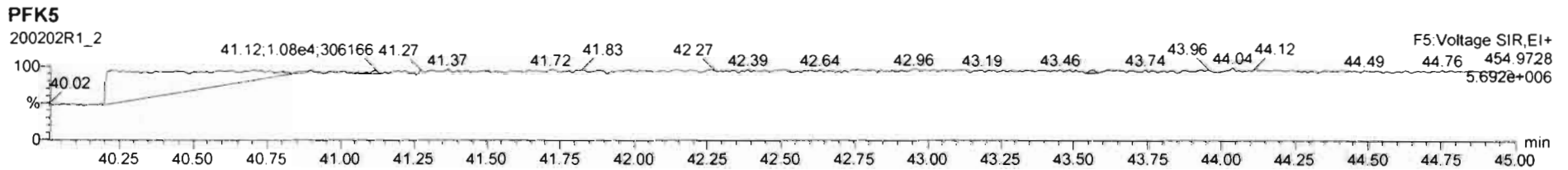
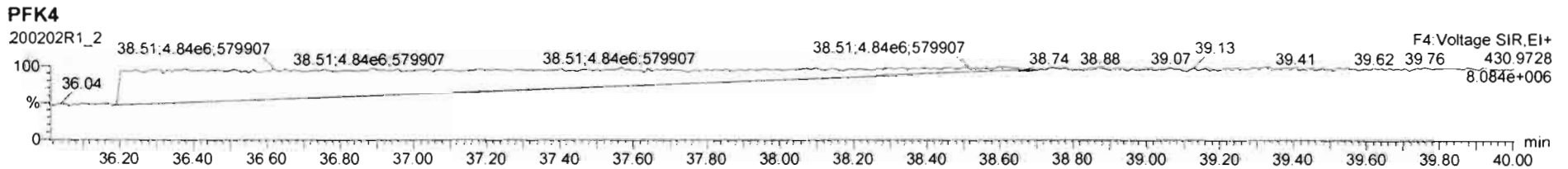
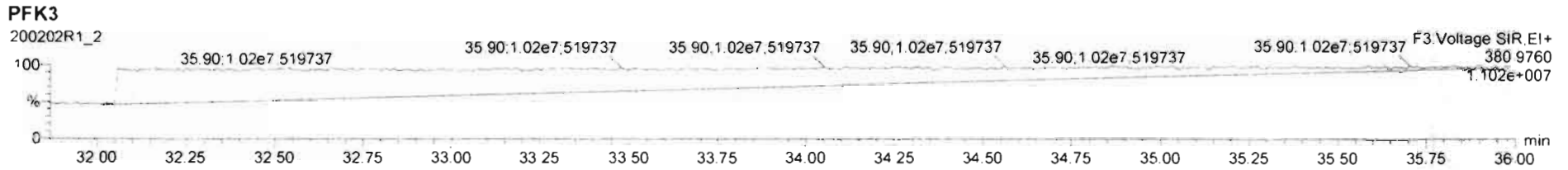
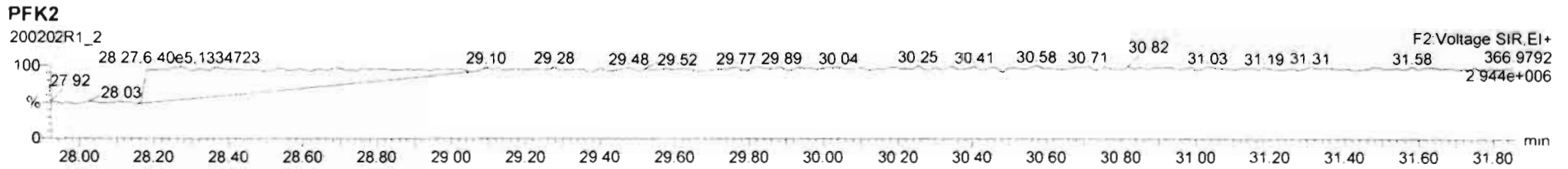
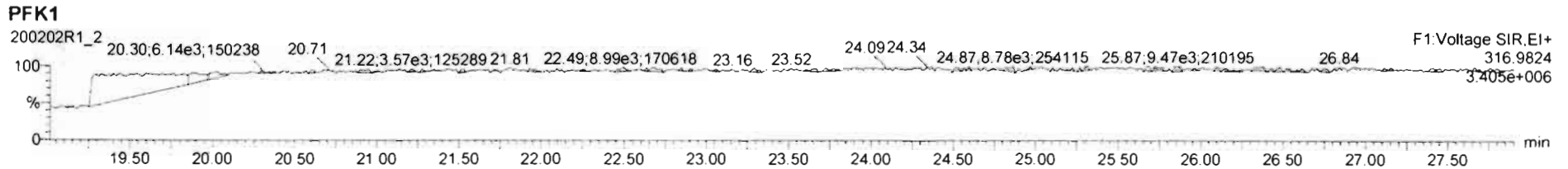
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Dataset: Untitled

Last Altered: Monday, February 03, 2020 07:25:09 Pacific Standard Time
Printed: Monday, February 03, 2020 07:29:59 Pacific Standard Time

Name: 200202R1_2, Date: 02-Feb-2020, Time: 11:11:34, ID: B0A0056-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\200318R1\200318R1-8.qld

Last Altered: Thursday, March 19, 2020 12:07:51 PM Pacific Daylight Time
Printed: Thursday, March 19, 2020 12:12:00 PM Pacific Daylight Time

GRB 03/19/2020

C1 03/23/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-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	0.983	10.000	25.781		1.001				0.0922	
2	2 1,2,3,7,8-PeCDD			NO	0.921	10.000	31.071		1.001				0.0728	
3	3 1,2,3,4,7,8-HxCDD			NO	1.13	10.000	34.459		1.000				0.0698	
4	4 1,2,3,6,7,8-HxCDD			NO	0.984	10.000	34.555		1.000				0.0693	
5	5 1,2,3,7,8,9-HxCDD			NO	0.967	10.000	34.831		1.000				0.0799	
6	6 1,2,3,4,6,7,8-HpCDD			NO	1.01	10.000	38.251		1.000				0.130	
7	7 OCDD	6.44e2	0.84	NO	1.05	10.000	41.308	41.31	1.000	1.000	0.45142		0.220	0.451
8	8 2,3,7,8-TCDF			NO	0.915	10.000	24.772		1.001				0.0540	
9	9 1,2,3,7,8-PeCDF			NO	0.959	10.000	29.727		1.001				0.0445	
10	10 2,3,4,7,8-PeCDF			NO	1.00	10.000	30.759		1.001				0.0429	
11	11 1,2,3,4,7,8-HxCDF			NO	1.04	10.000	33.607		1.000				0.0414	
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.000	33.734		1.000				0.0401	
13	13 2,3,4,6,7,8-HxCDF			NO	1.09	10.000	34.323		1.001				0.0398	
14	14 1,2,3,7,8,9-HxCDF			NO	1.03	10.000	35.162		1.000				0.0574	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.05	10.000	36.882		1.001				0.0613	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.21	10.000	38.901		1.000				0.0772	
17	17 OCDF			NO	0.947	10.000	41.489		1.000				0.144	
18	18 13C-2,3,7,8-TCDD	6.98e5	0.77	NO	1.18	10.000	25.750	25.75	1.029	1.029	159.97	80.0	0.351	
19	19 13C-1,2,3,7,8-PeCDD	5.37e5	0.63	NO	0.864	10.000	30.937	31.05	1.236	1.240	168.74	84.4	0.312	
20	20 13C-1,2,3,4,7,8-HxCDD	3.88e5	1.27	NO	0.754	10.000	34.463	34.45	1.014	1.013	143.25	71.6	0.420	
21	21 13C-1,2,3,6,7,8-HxCDD	4.67e5	1.27	NO	0.925	10.000	34.572	34.56	1.017	1.017	140.60	70.3	0.342	
22	22 13C-1,2,3,7,8,9-HxCDD	4.28e5	1.26	NO	0.829	10.000	34.834	34.82	1.025	1.024	143.93	72.0	0.382	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.29e5	1.07	NO	0.598	10.000	38.294	38.24	1.127	1.125	153.13	76.6	0.389	
24	24 13C-OCDD	5.43e5	0.91	NO	0.571	10.000	41.445	41.31	1.219	1.215	264.85	66.2	0.413	
25	25 13C-2,3,7,8-TCDF	9.44e5	0.77	NO	1.09	10.000	24.772	24.75	0.990	0.989	142.57	71.3	0.450	
26	26 13C-1,2,3,7,8-PeCDF	7.97e5	1.56	NO	0.876	10.000	29.608	29.71	1.183	1.187	149.57	74.8	0.614	
27	27 13C-2,3,4,7,8-PeCDF	7.58e5	1.55	NO	0.844	10.000	30.619	30.73	1.223	1.228	147.89	73.9	0.638	
28	28 13C-1,2,3,4,7,8-HxCDF	5.66e5	0.51	NO	1.00	10.000	33.610	33.61	0.989	0.989	157.71	78.9	0.385	
29	29 13C-1,2,3,6,7,8-HxCDF	6.28e5	0.52	NO	1.12	10.000	33.719	33.72	0.992	0.992	156.68	78.3	0.344	
30	30 13C-2,3,4,6,7,8-HxCDF	5.76e5	0.52	NO	1.04	10.000	34.300	34.29	1.009	1.009	155.14	77.6	0.372	
31	31 13C-1,2,3,7,8,9-HxCDF	4.75e5	0.52	NO	0.873	10.000	35.174	35.16	1.035	1.034	151.73	75.9	0.441	

Dataset: U:\VG12.PRO\Results\200318R1\200318R1-8.qld

Last Altered: Thursday, March 19, 2020 12:07:51 PM Pacific Daylight Time
Printed: Thursday, March 19, 2020 12:12:00 PM Pacific Daylight Time

Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank

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32	13C-1,2,3,4,6,7,8-HpCDF	4.11e5	0.43	NO	0.771	10.000	36.890	36.85	1.085	1.084	148.51	74.3	0.420	
33	13C-1,2,3,4,7,8,9-HpCDF	2.87e5	0.44	NO	0.519	10.000	38.977	38.90	1.147	1.144	154.03	77.0	0.624	
34	13C-OCDF	6.81e5	0.88	NO	0.696	10.000	41.625	41.49	1.225	1.221	272.45	68.1	0.342	
35	37Cl-2,3,7,8-TCDD	2.68e5			1.17	10.000	25.760	25.78	1.029	1.030	61.852	77.3	0.0484	
36	13C-1,2,3,4-TCDD	7.37e5	0.79	NO	1.00	10.000	25.050	25.03	1.000	1.000	200.00	100	0.416	
37	13C-1,2,3,4-TCDF	1.22e6	0.80	NO	1.00	10.000	23.190	23.09	1.000	1.000	200.00	100	0.490	
38	13C-1,2,3,4,6,9-HxCDF	7.18e5	0.51	NO	1.00	10.000	33.880	33.99	1.000	1.000	200.00	100	0.385	
39	Total Tetra-Dioxins				0.983	10.000	24.620		0.000				0.0565	
40	Total Penta-Dioxins				0.921	10.000	29.960		0.000				0.0336	
41	Total Hexa-Dioxins				0.984	10.000	33.635		0.000				0.0403	
42	Total Hepta-Dioxins				1.01	10.000	37.640		0.000				0.0775	
43	Total Tetra-Furans				0.915	10.000	23.610		0.000				0.0239	
44	1st Func. Penta-Furans				0.959	10.000	27.090		0.000				0.0112	
45	Total Penta-Furans				0.959	10.000	29.275		0.000				0.0184	
46	Total Hexa-Furans				1.09	10.000	33.555		0.000				0.0227	
47	Total Hepta-Furans				1.05	10.000	37.835		0.000				0.0352	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200318R1\200318R1-8.qld

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Printed: Thursday, March 19, 2020 12:12:00 PM Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-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												

Dataset: U:\VG12.PRO\Results\200318R1\200318R1-8.qld

Last Altered: Thursday, March 19, 2020 12:07:51 PM Pacific Daylight Time

Printed: Thursday, March 19, 2020 12:12:00 PM Pacific Daylight Time

Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-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

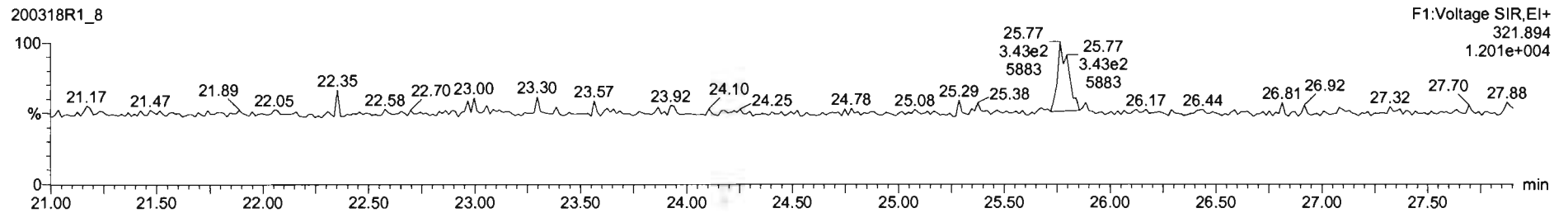
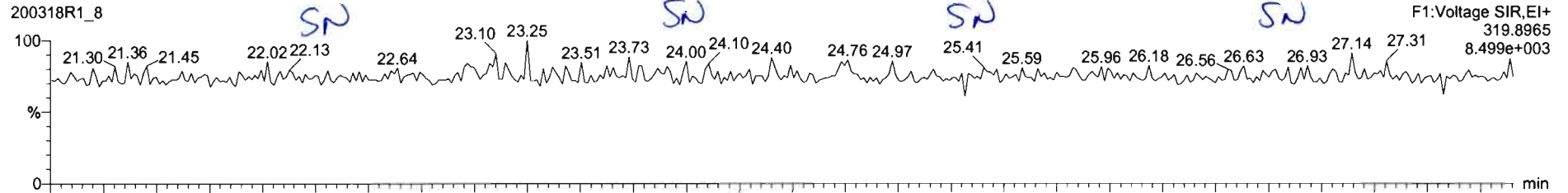
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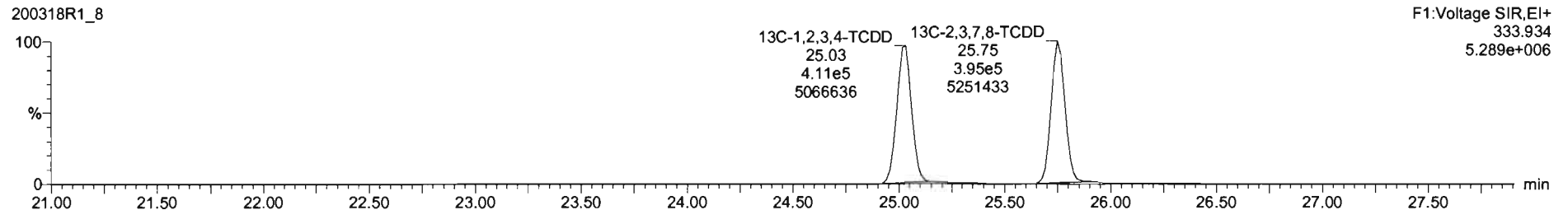
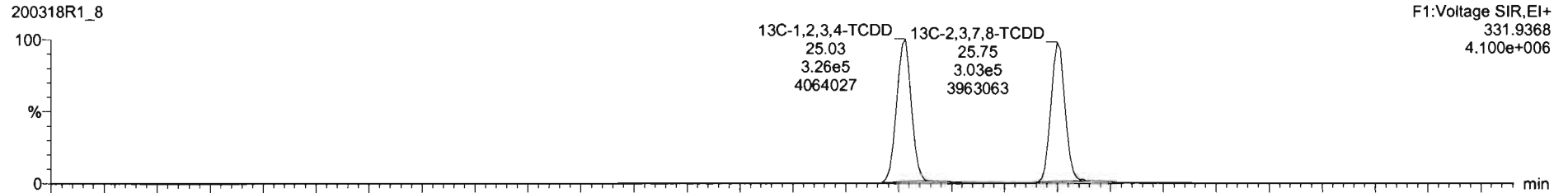
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2,3,7,8-TCDD



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



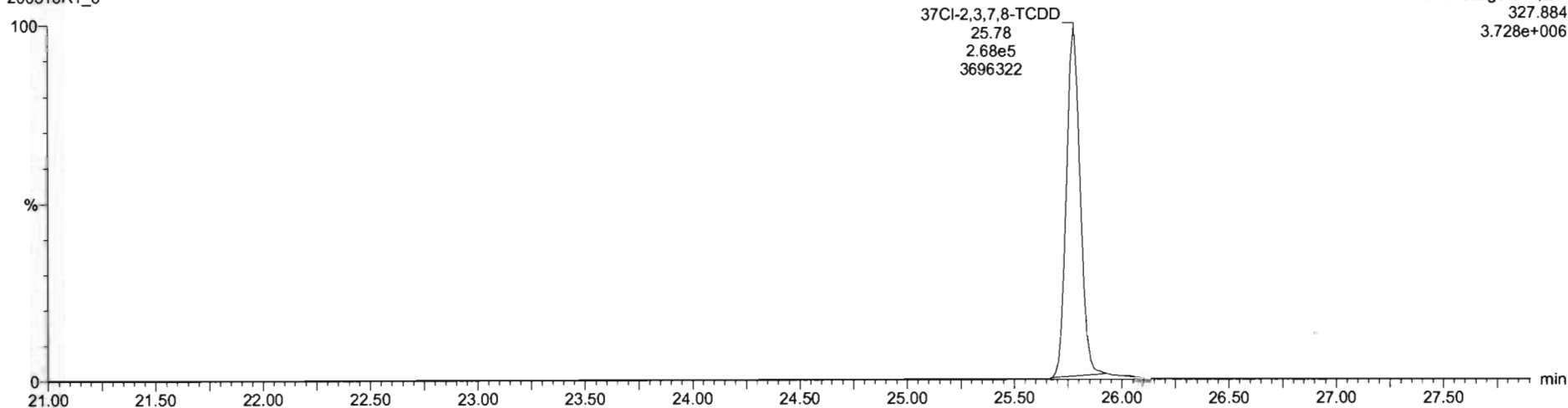
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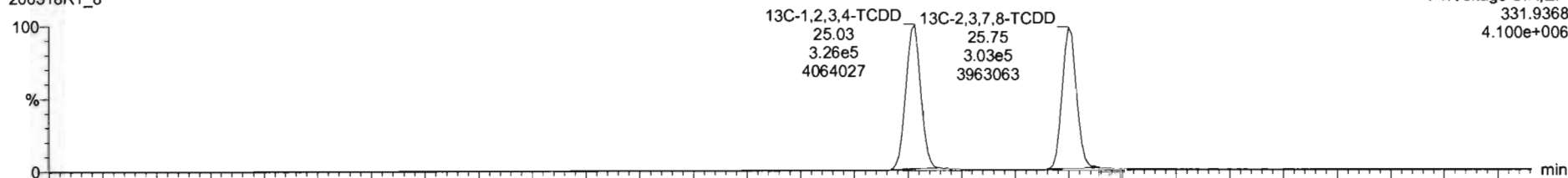
37Cl-2,3,7,8-TCDD

200318R1_8

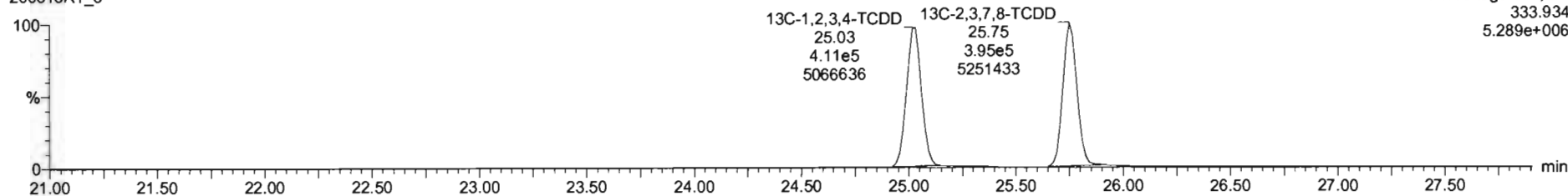


13C-1,2,3,4-TCDD

200318R1_8



200318R1_8

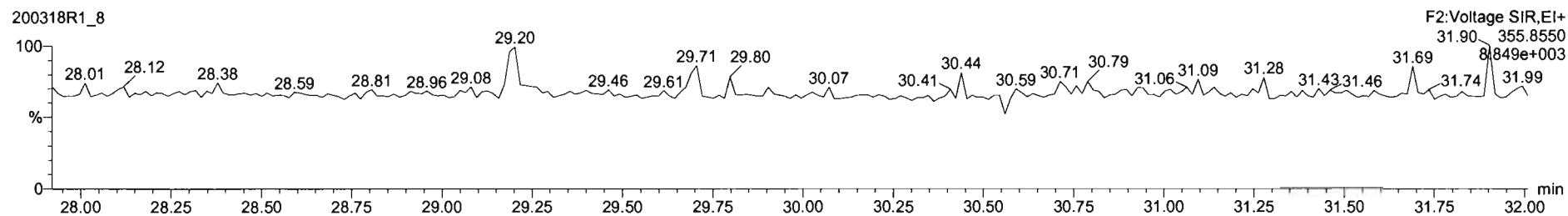
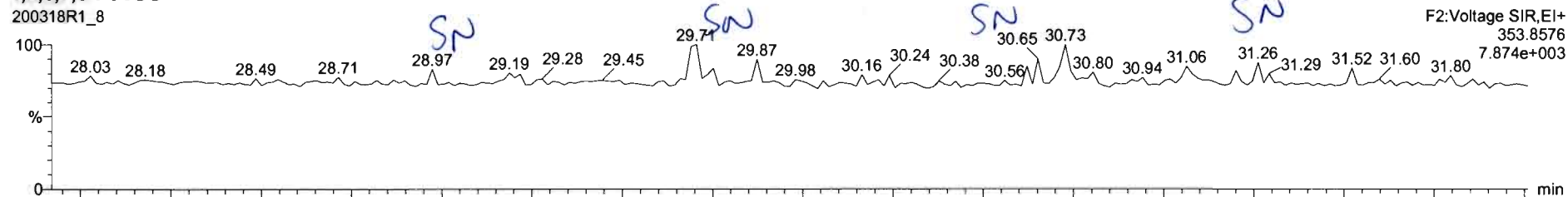


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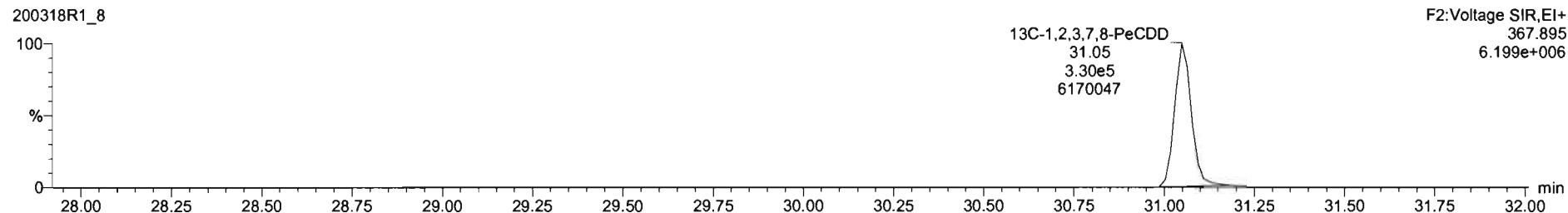
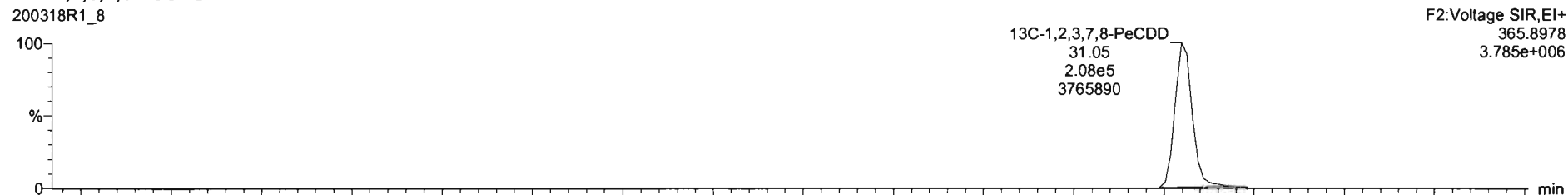
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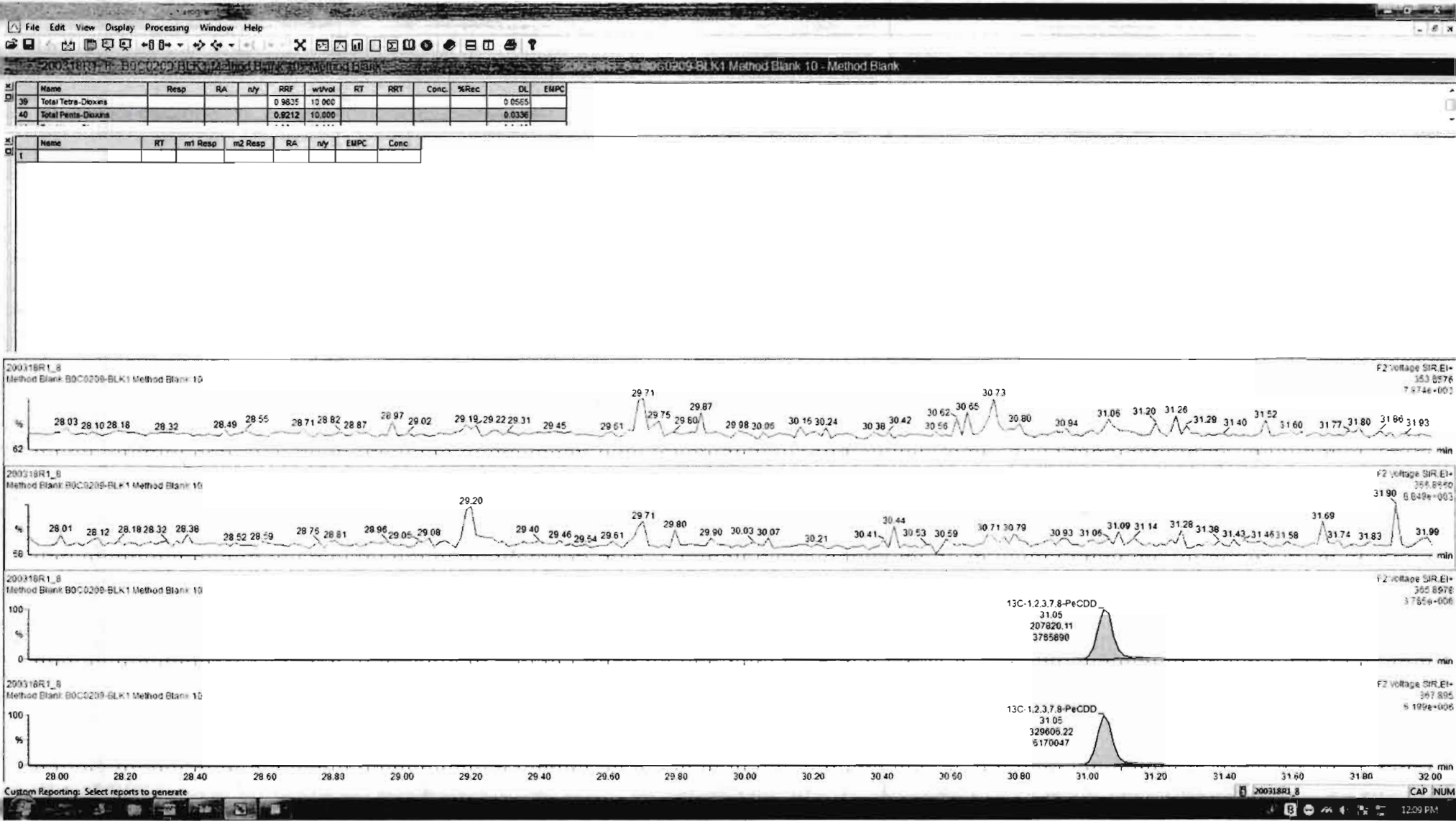
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1,2,3,7,8-PeCDD



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



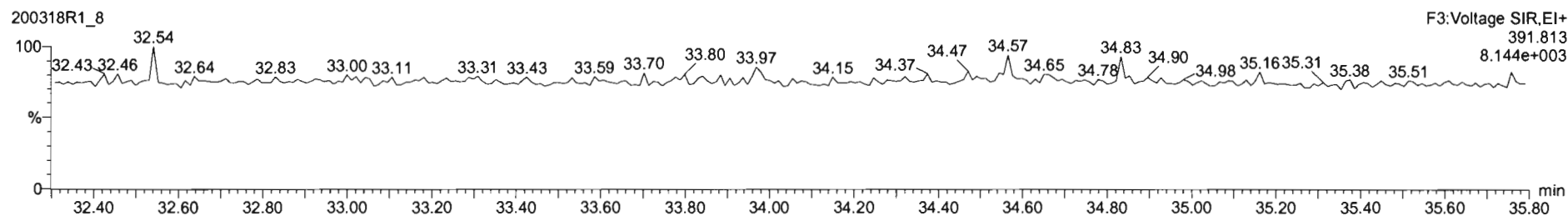
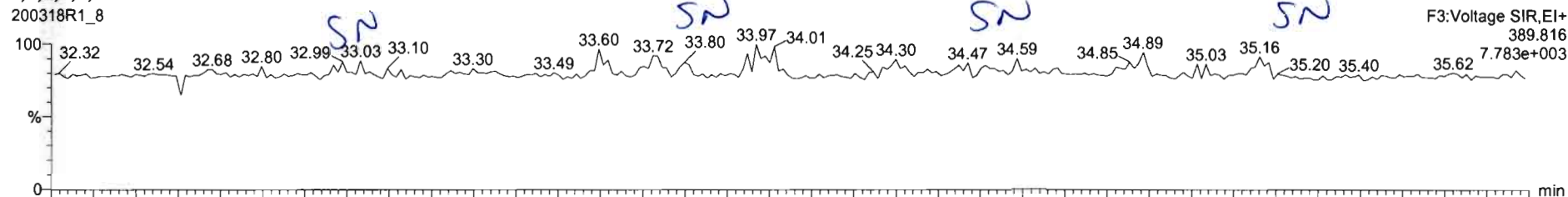


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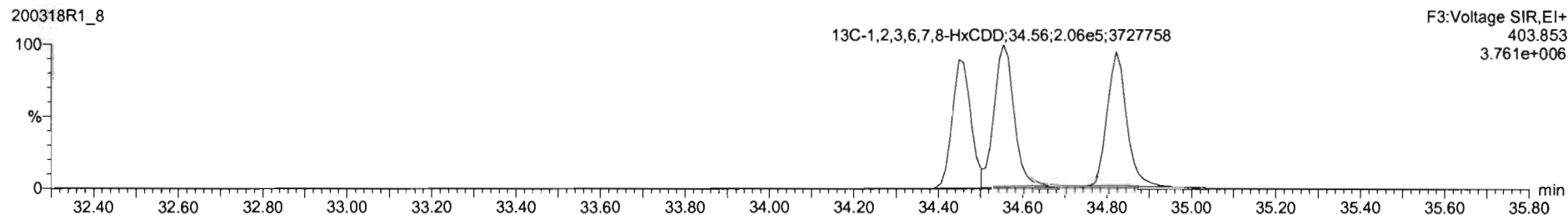
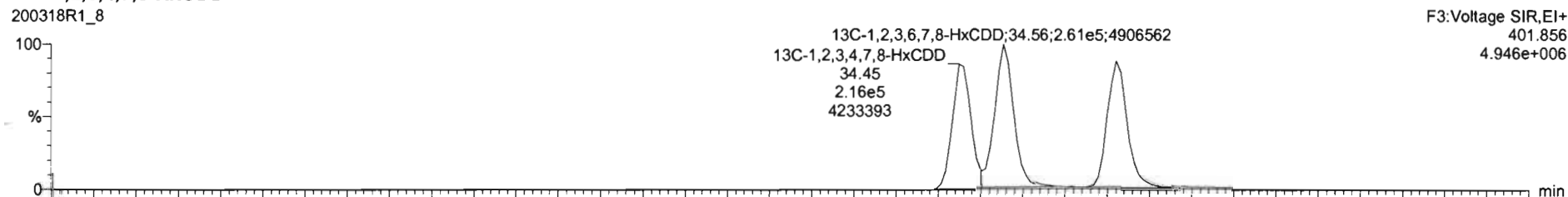
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1,2,3,4,7,8-HxCDD



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



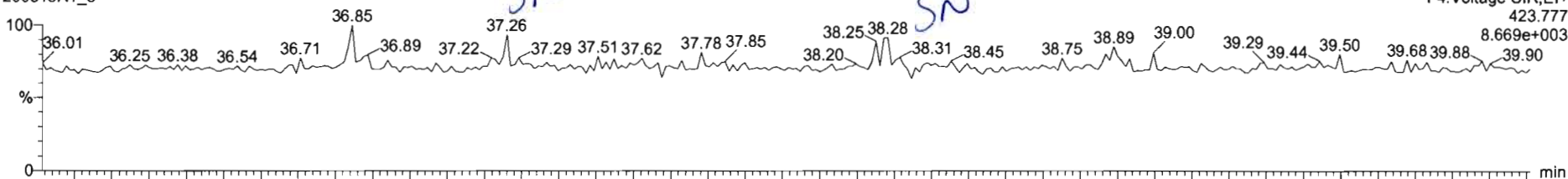
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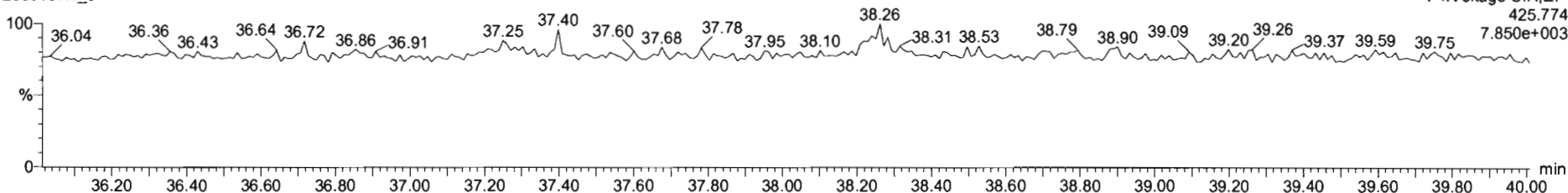
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1,2,3,4,6,7,8-HpCDD

200318R1_8

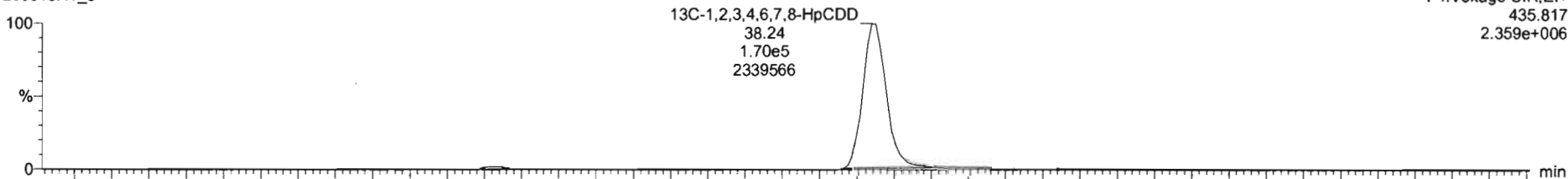


200318R1_8

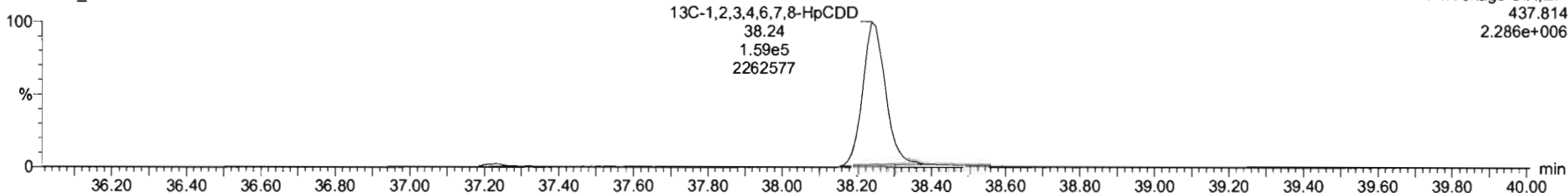


13C-1,2,3,4,6,7,8-HpCDD

200318R1_8



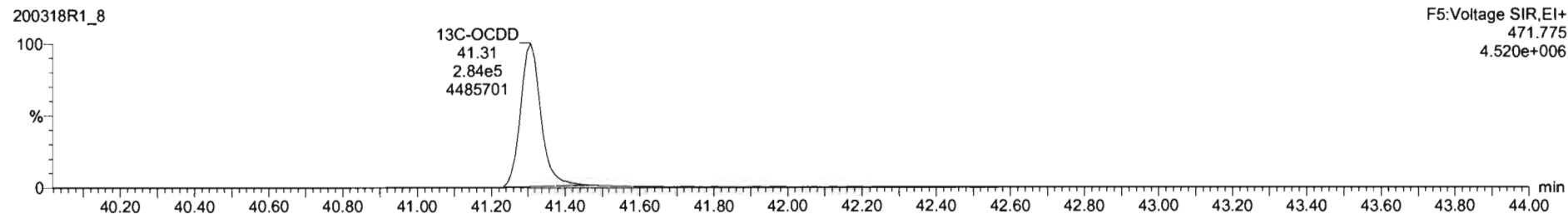
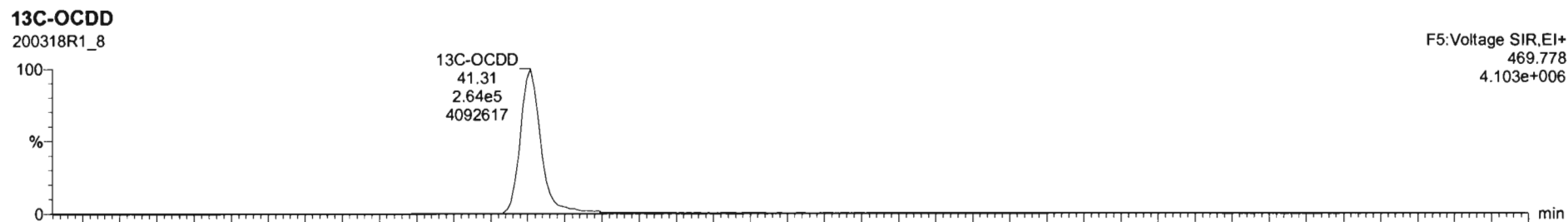
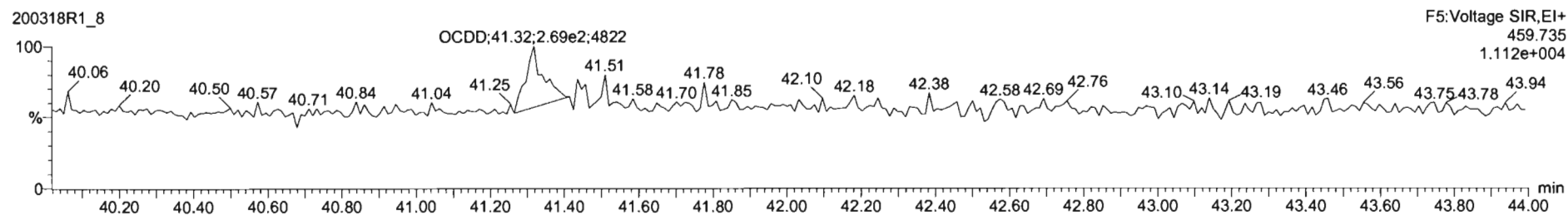
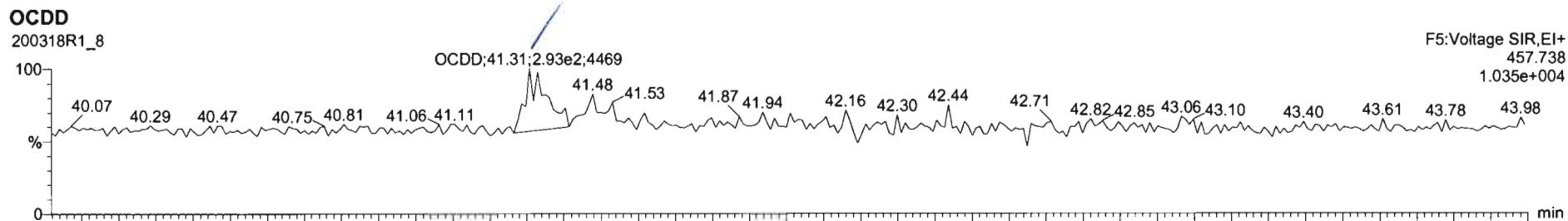
200318R1_8



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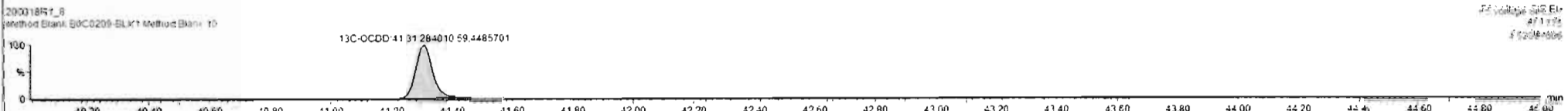
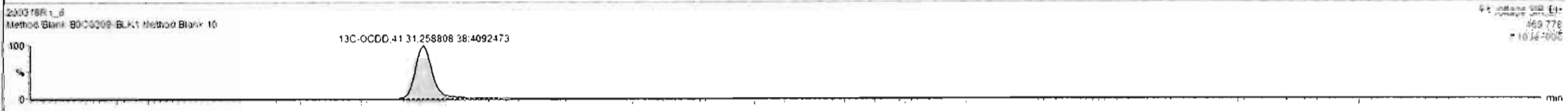
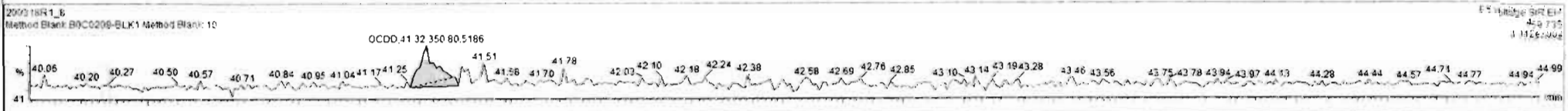
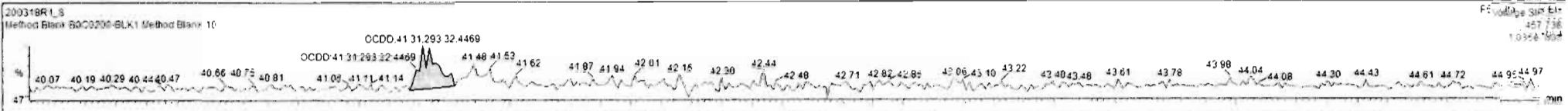
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Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
7	OCDD	6.44e2	0.84	NO	1.0515	10.000	41.31	1.000	0.451	0.220	0.451
8	2,3,7,8-TCDF			NO	0.8154	10.000				0.0540	

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

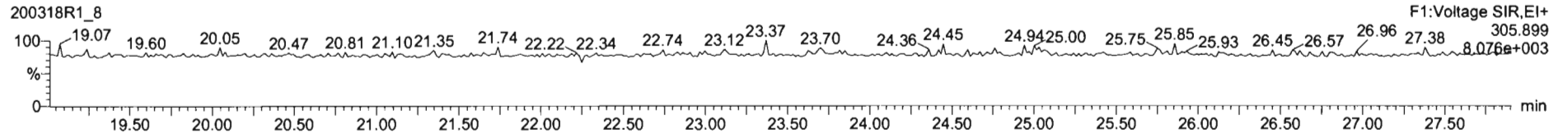
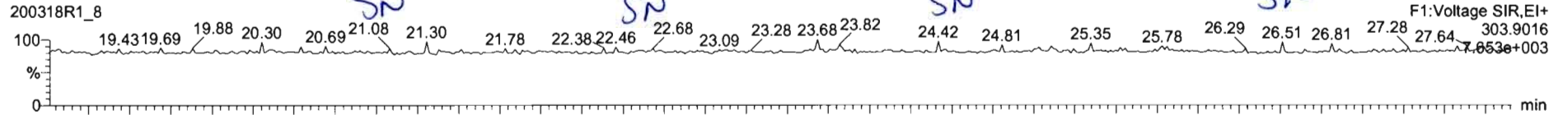


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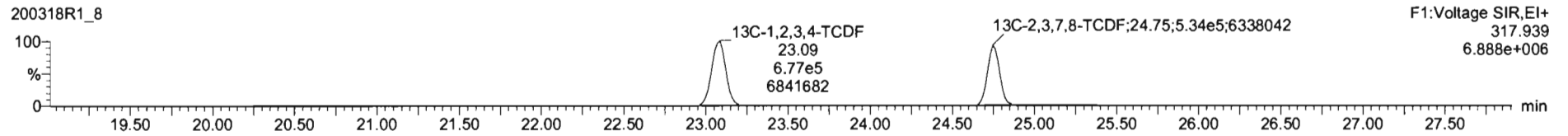
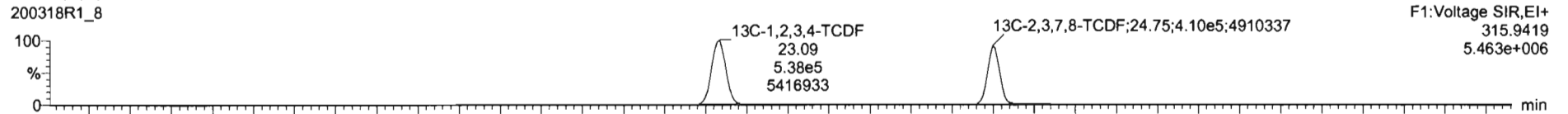
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Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank

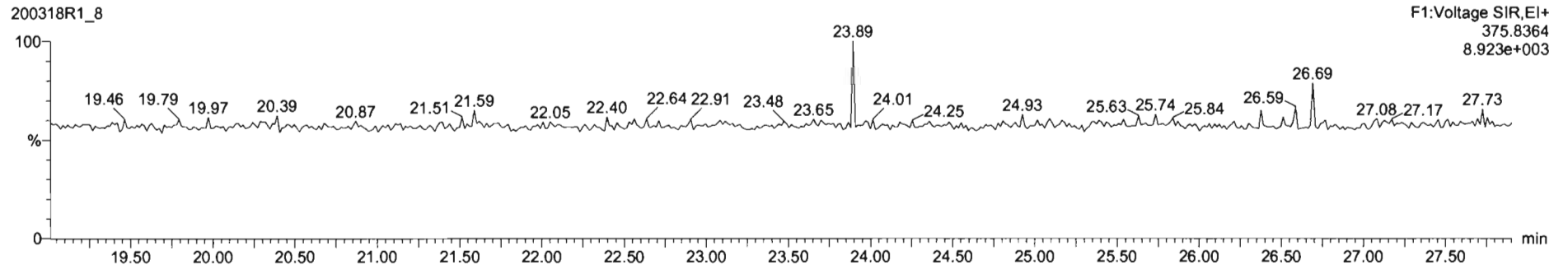
2,3,7,8-TCDF



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

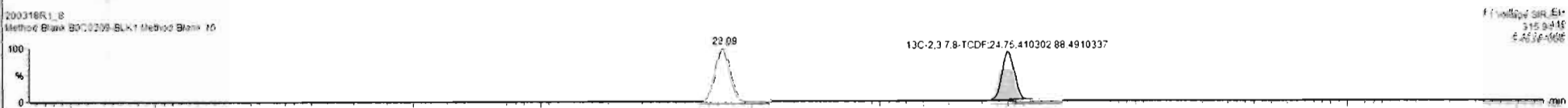
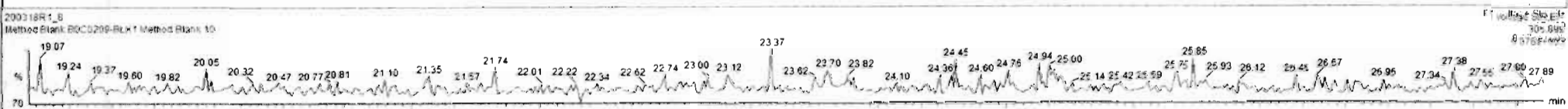
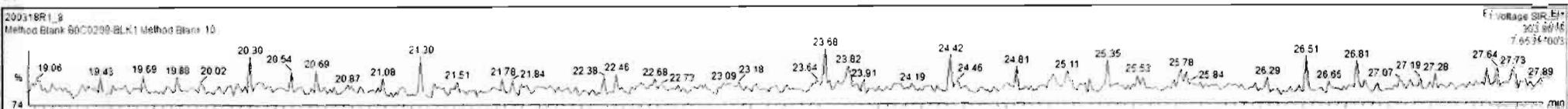


DPE1



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.00E1	10.000					0.0775	
43 Total Tetra-Furans				0.9154	10.000					0.0239	

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



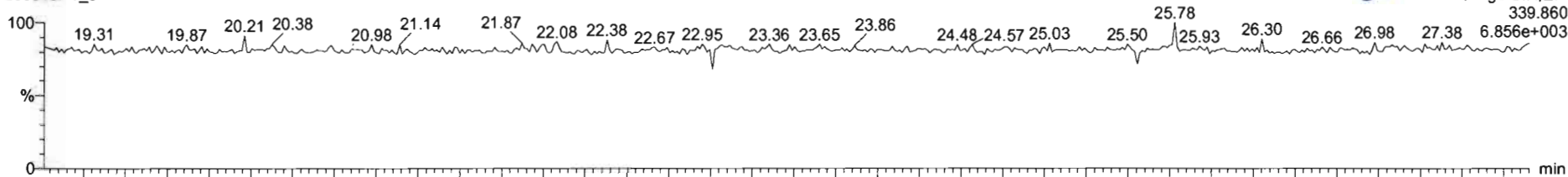
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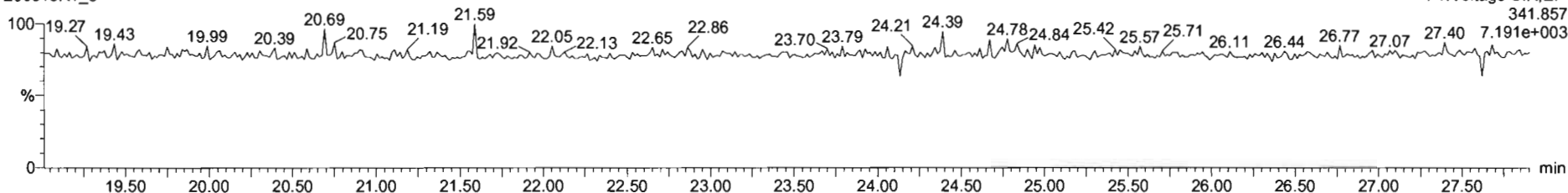
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1st Func. Penta-Furans

200318R1_8

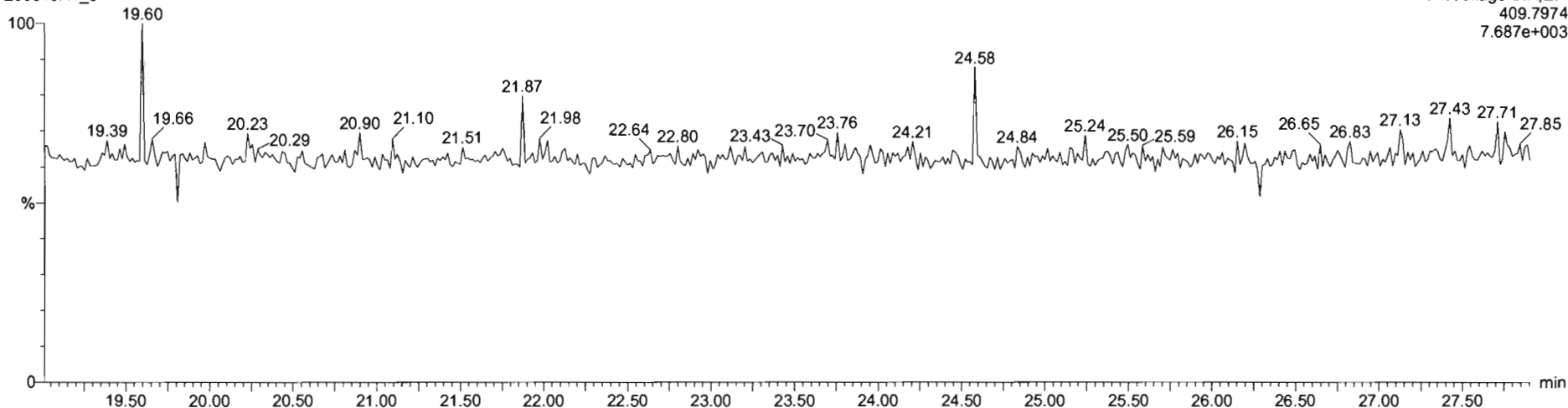


200318R1_8



DPE6

200318R1_8

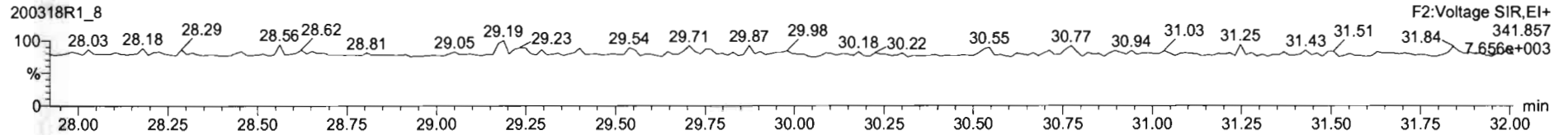
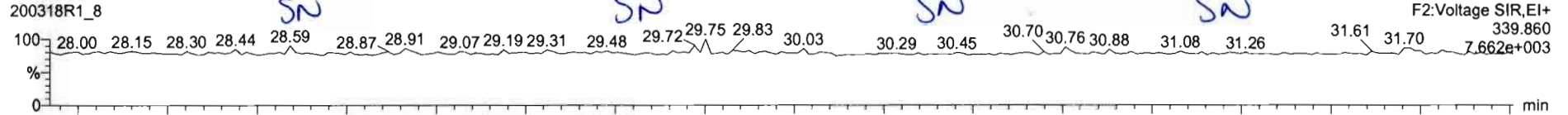


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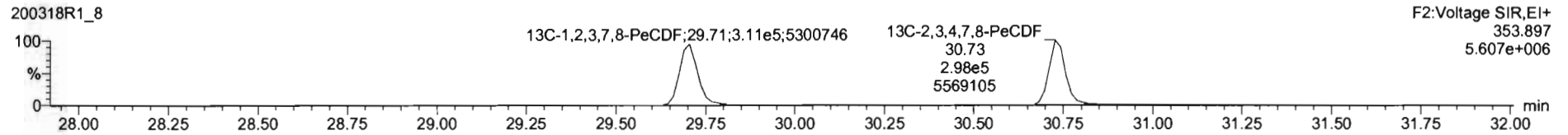
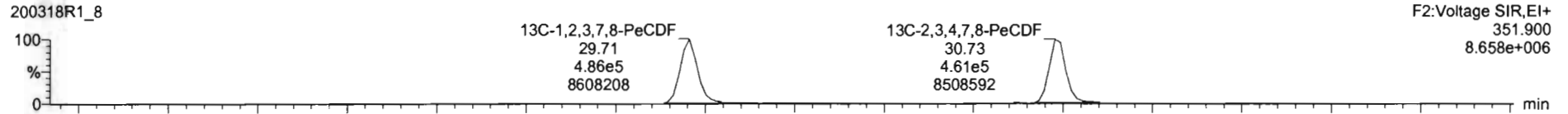
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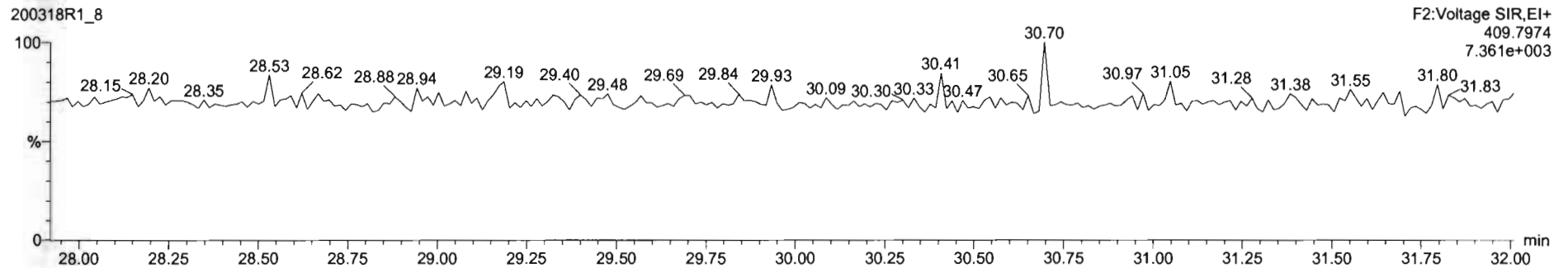
1,2,3,7,8-PeCDF

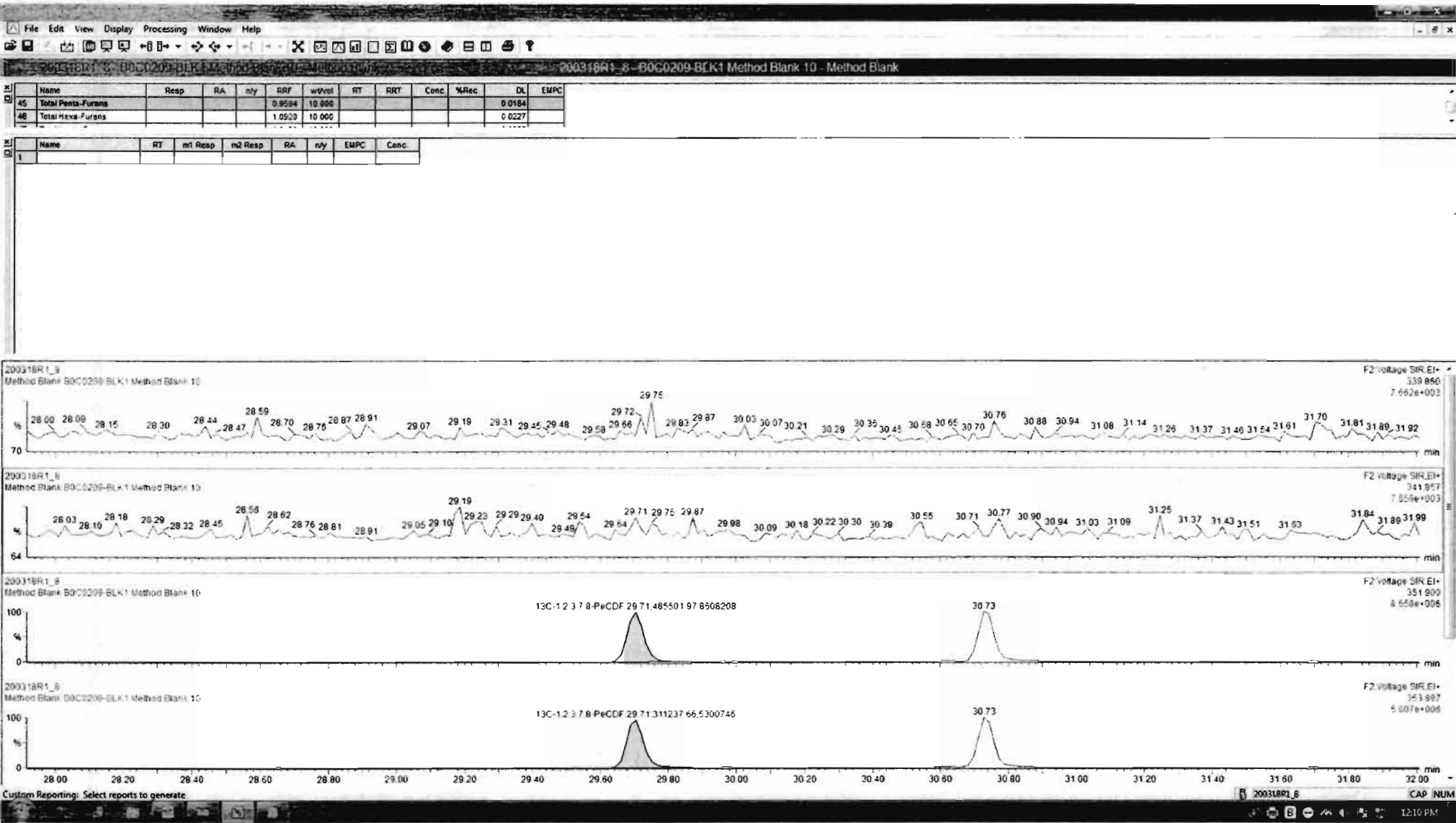


13C-1,2,3,7,8-PeCDF



DPE2



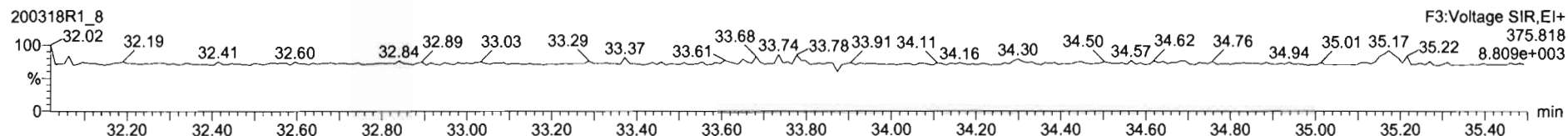
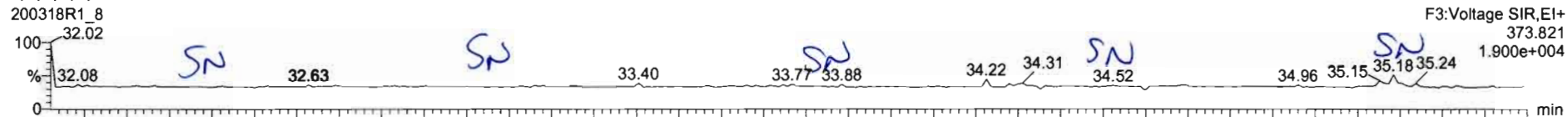


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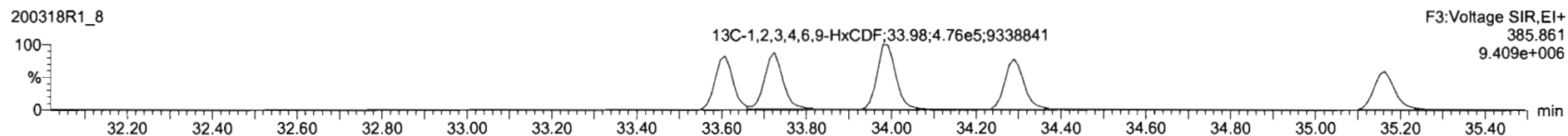
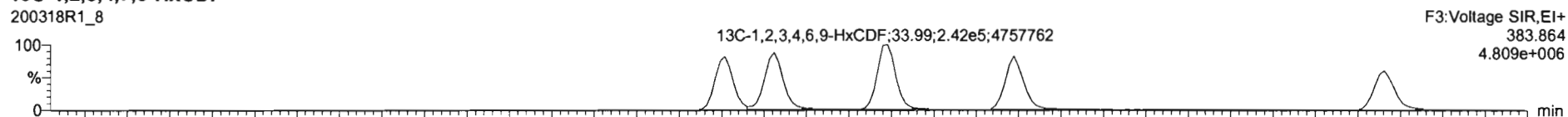
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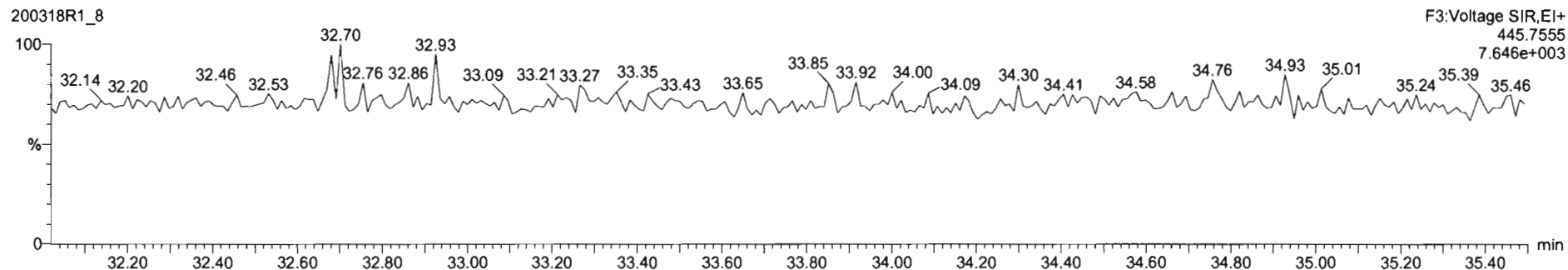
1,2,3,4,7,8-HxCDF



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

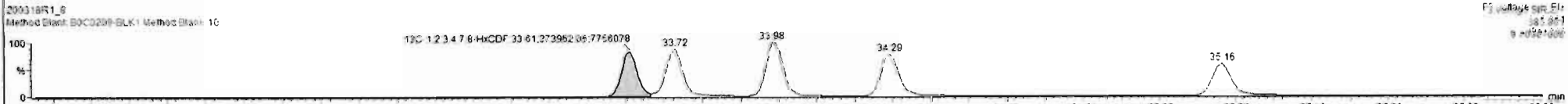
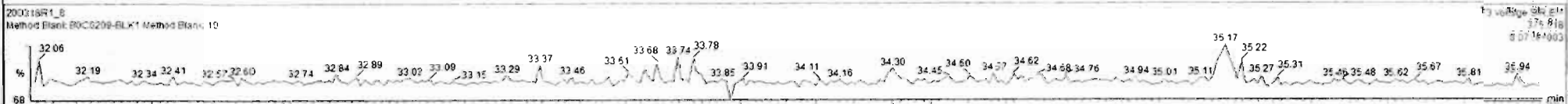
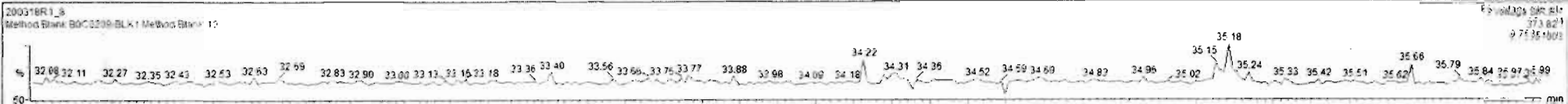


DPE3



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.000					0.0184	
46 Total Hexa-Furans				1.0920	10.000					0.0227	

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

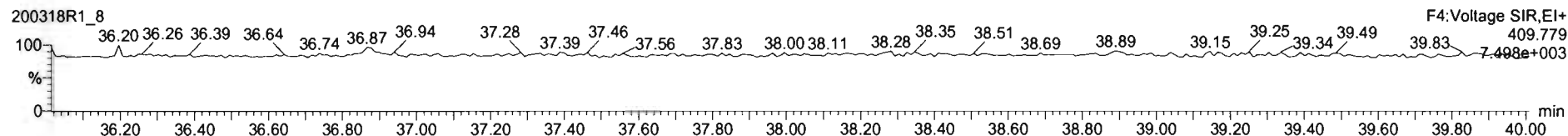
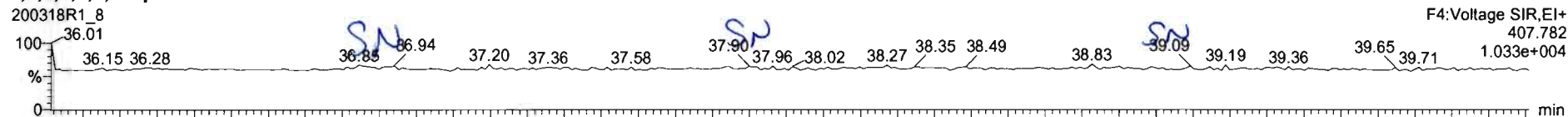


Dataset: Untitled

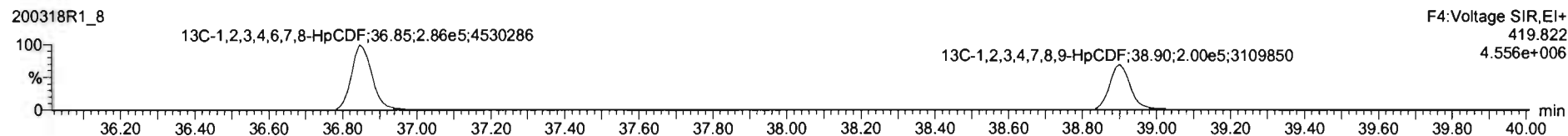
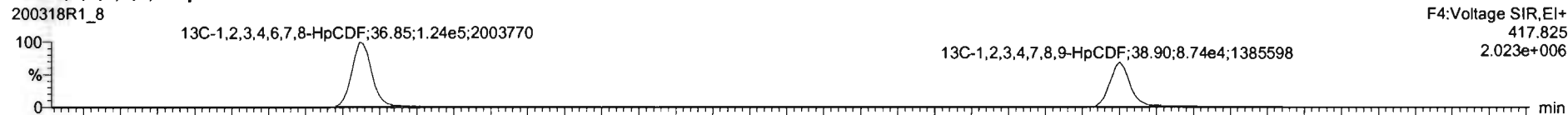
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Printed: Thursday, March 19, 2020 07:32:25 Pacific Daylight Time

Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank

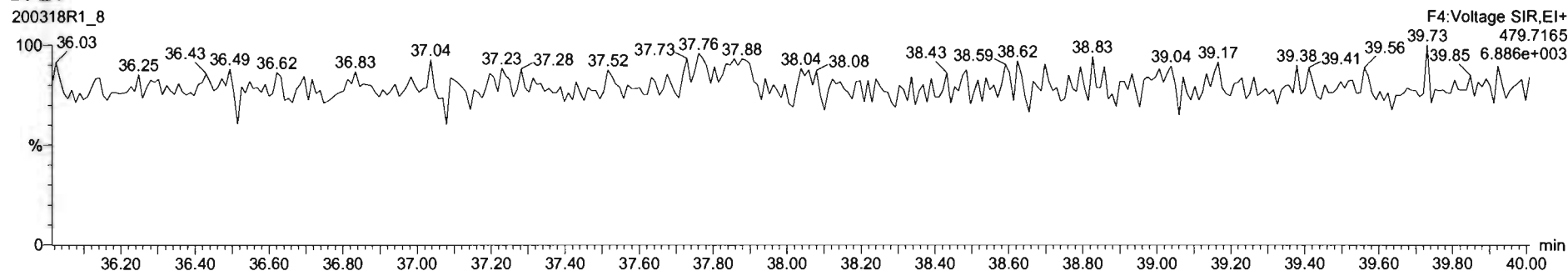
1,2,3,4,6,7,8-HpCDF



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



DPE4

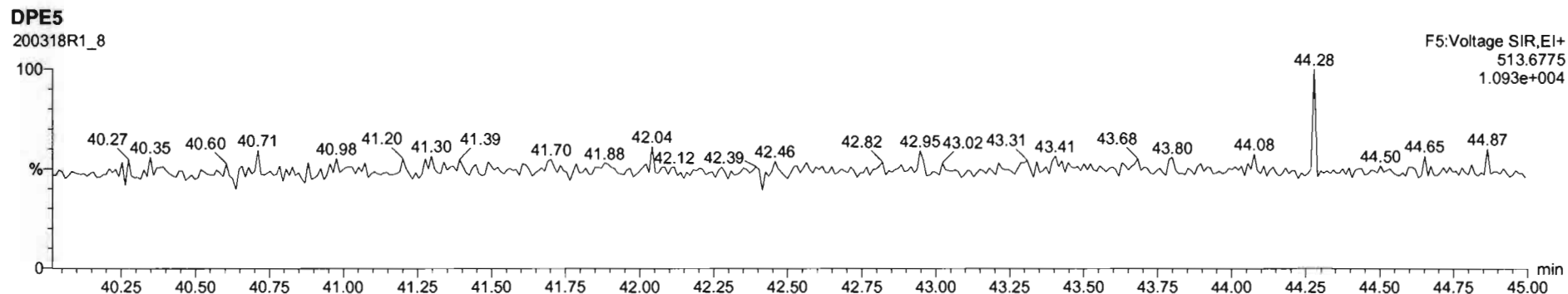
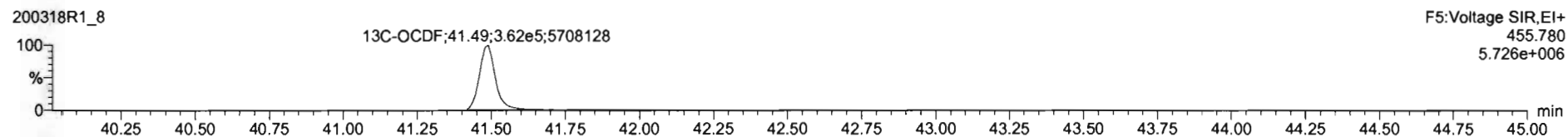
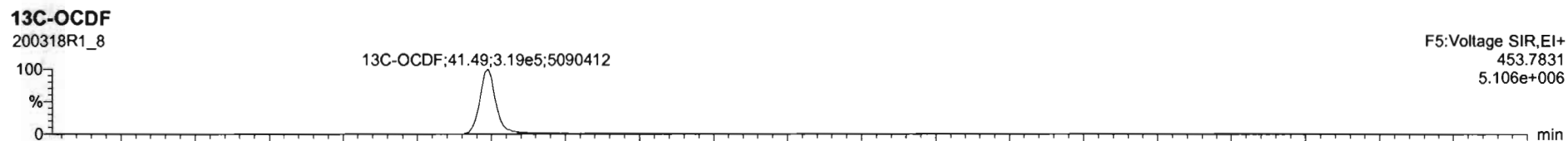
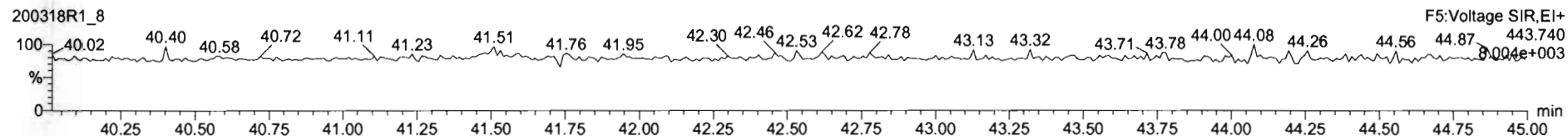
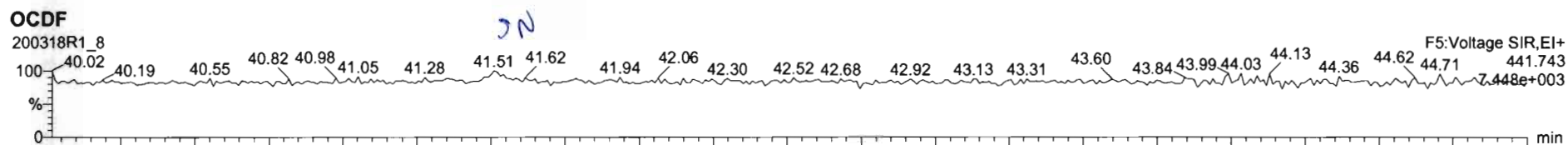


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Last Altered: Thursday, March 19, 2020 07:31:38 Pacific Daylight Time

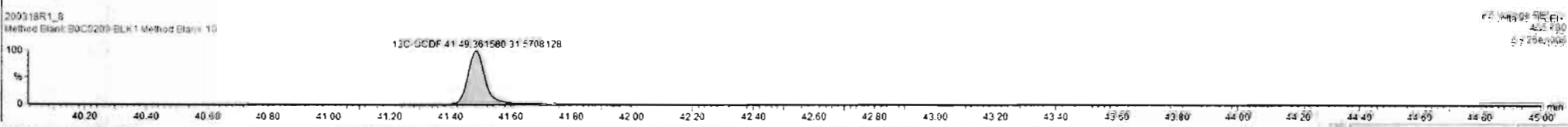
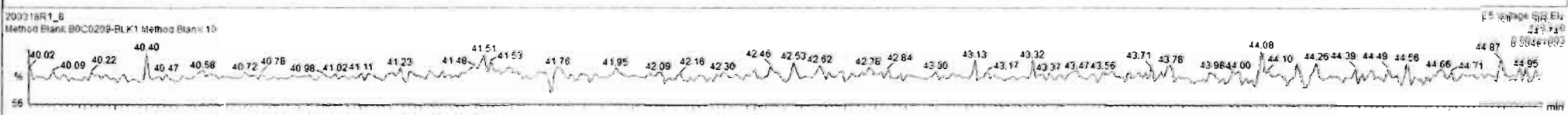
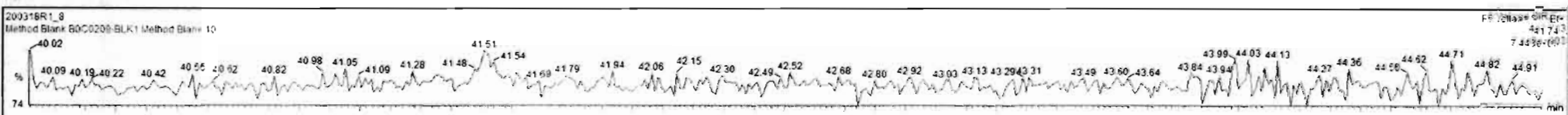
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Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank



Name	Resp	RA	n/y	RRF	w/wtd	RT	RRT	Conc	%Rec	DL	EMPC
17	OCDF		NO	0.9468	10.000					0.144	
18	13C-2,3,7,8-TCDD	6.98e5	0.77	NO	1.1842	10.000	25.75	1.029	160	60.0	0.351

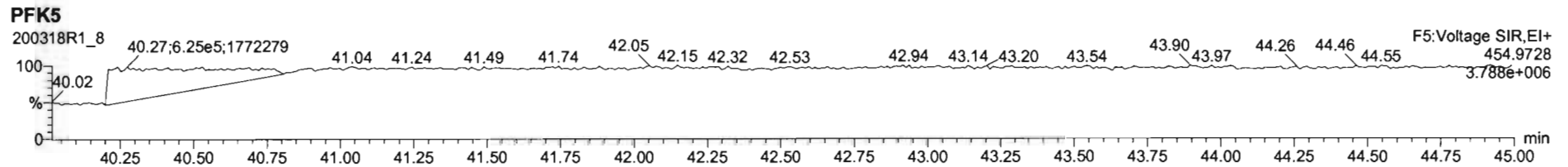
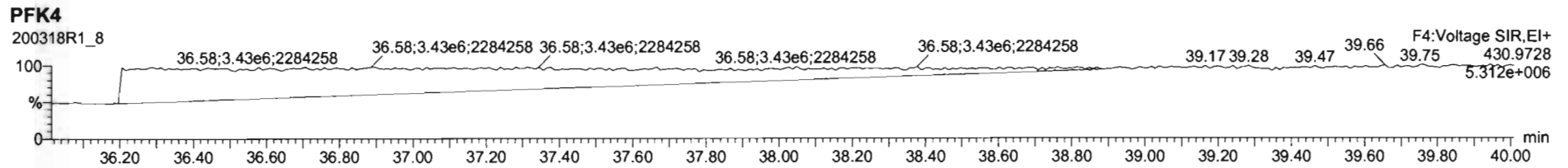
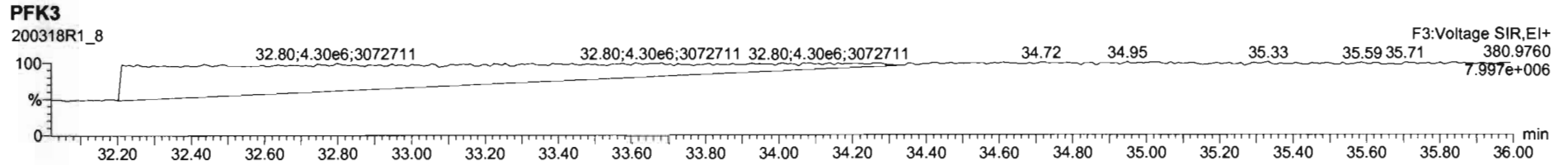
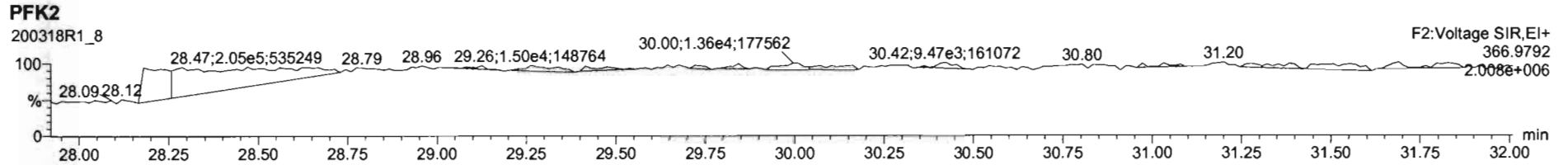
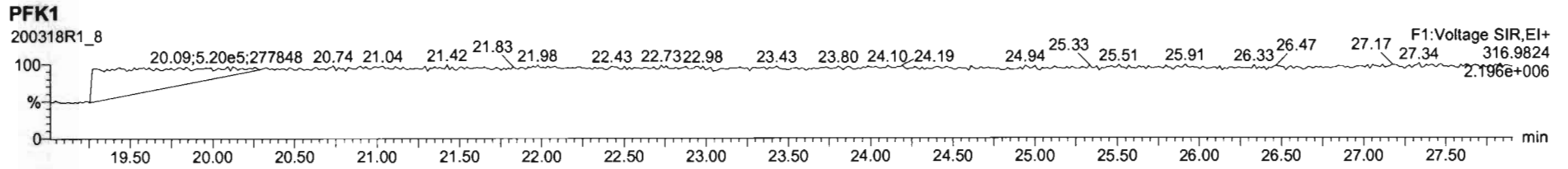
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1							



Dataset: Untitled

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Printed: Thursday, March 19, 2020 07:32:25 Pacific Daylight Time

Name: 200318R1_8, Date: 18-Mar-2020, Time: 21:02:47, ID: B0C0209-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200318R1\200318R1-4.qld

Last Altered: Thursday, March 19, 2020 12:14:39 PM Pacific Daylight Time
Printed: Thursday, March 19, 2020 12:15:24 PM Pacific Daylight Time

GRB 03/19/2020

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

C703/23/2020

Name: 200318R1_4, Date: 18-Mar-2020, Time: 17:52:09, ID: B0C0209-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	6.77e4	0.75	NO	0.983	10.000	25.796	25.80	1.001	1.001	17.168		0.0925	17.2
2	2 1,2,3,7,8-PeCDD	2.81e5	0.62	NO	0.921	10.000	31.086	31.08	1.001	1.000	90.745		0.161	90.7
3	3 1,2,3,4,7,8-HxCDD	2.71e5	1.25	NO	1.13	10.000	34.469	34.48	1.000	1.001	92.825		0.179	92.8
4	4 1,2,3,6,7,8-HxCDD	2.86e5	1.25	NO	0.984	10.000	34.566	34.58	1.000	1.000	93.445		0.183	93.4
5	5 1,2,3,7,8,9-HxCDD	2.68e5	1.26	NO	0.967	10.000	34.842	34.84	1.000	1.000	94.712		0.206	94.7
6	6 1,2,3,4,6,7,8-HpCDD	2.12e5	1.06	NO	1.01	10.000	38.262	38.27	1.000	1.001	92.696		0.344	92.7
7	7 OCDD	3.40e5	0.90	NO	1.05	10.000	41.308	41.32	1.000	1.000	175.72		0.229	176
8	8 2,3,7,8-TCDF	8.72e4	0.77	NO	0.915	10.000	24.787	24.79	1.001	1.001	18.040		0.0665	18.0
9	9 1,2,3,7,8-PeCDF	4.25e5	1.62	NO	0.959	10.000	29.727	29.72	1.001	1.001	92.678		0.173	92.7
10	10 2,3,4,7,8-PeCDF	4.36e5	1.57	NO	1.00	10.000	30.774	30.76	1.001	1.001	93.250		0.154	93.3
11	11 1,2,3,4,7,8-HxCDF	3.44e5	1.24	NO	1.04	10.000	33.618	33.63	1.000	1.000	92.883		0.196	92.9
12	12 1,2,3,6,7,8-HxCDF	3.91e5	1.22	NO	1.01	10.000	33.745	33.75	1.000	1.000	95.523		0.188	95.5
13	13 2,3,4,6,7,8-HxCDF	3.82e5	1.23	NO	1.09	10.000	34.334	34.31	1.001	1.000	93.280		0.188	93.3
14	14 1,2,3,7,8,9-HxCDF	3.01e5	1.22	NO	1.03	10.000	35.173	35.18	1.000	1.000	90.590		0.257	90.6
15	15 1,2,3,4,6,7,8-HpCDF	2.74e5	1.01	NO	1.05	10.000	36.904	36.88	1.001	1.000	89.843		0.242	89.8
16	16 1,2,3,4,7,8,9-HpCDF	2.17e5	1.02	NO	1.21	10.000	38.901	38.92	1.000	1.001	91.027		0.326	91.0
17	17 OCDF	4.04e5	0.89	NO	0.947	10.000	41.489	41.50	1.000	1.000	186.19		0.216	186
18	18 13C-2,3,7,8-TCDD	8.02e5	0.78	NO	1.18	10.000	25.766	25.76	1.029	1.029	154.74	77.4	0.264	
19	19 13C-1,2,3,7,8-PeCDD	6.73e5	0.63	NO	0.864	10.000	30.956	31.06	1.236	1.240	177.92	89.0	0.282	
20	20 13C-1,2,3,4,7,8-HxCDD	5.16e5	1.28	NO	0.754	10.000	34.474	34.46	1.014	1.013	155.78	77.9	0.279	
21	21 13C-1,2,3,6,7,8-HxCDD	6.21e5	1.27	NO	0.925	10.000	34.582	34.57	1.017	1.017	152.88	76.4	0.227	
22	22 13C-1,2,3,7,8,9-HxCDD	5.85e5	1.25	NO	0.829	10.000	34.844	34.83	1.025	1.024	160.57	80.3	0.253	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.54e5	1.05	NO	0.598	10.000	38.306	38.25	1.127	1.125	172.69	86.3	0.489	
24	24 13C-OCDD	7.35e5	0.87	NO	0.571	10.000	41.457	41.31	1.219	1.215	293.13	73.3	0.377	
25	25 13C-2,3,7,8-TCDF	1.06e6	0.78	NO	1.09	10.000	24.787	24.76	0.990	0.989	131.53	65.8	0.394	
26	26 13C-1,2,3,7,8-PeCDF	9.56e5	1.56	NO	0.876	10.000	29.626	29.71	1.183	1.186	148.09	74.0	0.398	
27	27 13C-2,3,4,7,8-PeCDF	9.32e5	1.58	NO	0.844	10.000	30.637	30.74	1.223	1.227	149.94	75.0	0.414	
28	28 13C-1,2,3,4,7,8-HxCDF	7.13e5	0.51	NO	1.00	10.000	33.620	33.62	0.989	0.989	162.33	81.2	0.419	
29	29 13C-1,2,3,6,7,8-HxCDF	8.08e5	0.53	NO	1.12	10.000	33.729	33.74	0.992	0.992	164.48	82.2	0.375	
30	30 13C-2,3,4,6,7,8-HxCDF	7.50e5	0.52	NO	1.04	10.000	34.310	34.30	1.009	1.009	165.01	82.5	0.405	
31	31 13C-1,2,3,7,8,9-HxCDF	6.47e5	0.52	NO	0.873	10.000	35.184	35.17	1.035	1.034	168.79	84.4	0.480	

Dataset: U:\VG12.PRO\Results\200318R1\200318R1-4.qld

Last Altered: Thursday, March 19, 2020 12:14:39 PM Pacific Daylight Time

Printed: Thursday, March 19, 2020 12:15:24 PM Pacific Daylight Time

Name: 200318R1_4, Date: 18-Mar-2020, Time: 17:52:09, ID: B0C0209-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	5.83e5	0.44	NO	0.771	10.000	36.901	36.87	1.085	1.084	172.10	86.0	0.350	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.94e5	0.45	NO	0.519	10.000	38.989	38.90	1.147	1.144	172.76	86.4	0.520	
34	34 13C-OCDF	9.16e5	0.89	NO	0.696	10.000	41.638	41.49	1.225	1.220	299.43	74.9	0.254	
35	35 37Cl-2,3,7,8-TCDD	2.95e5			1.17	10.000	25.776	25.80	1.029	1.030	57.308	71.6	0.0511	
36	36 13C-1,2,3,4-TCDD	8.75e5	0.80	NO	1.00	10.000	25.050	25.05	1.000	1.000	200.00	100	0.313	
37	37 13C-1,2,3,4-TCDF	1.47e6	0.78	NO	1.00	10.000	23.190	23.10	1.000	1.000	200.00	100	0.430	
38	38 13C-1,2,3,4,6,9-HxCDF	8.79e5	0.52	NO	1.00	10.000	33.880	34.00	1.000	1.000	200.00	100	0.419	

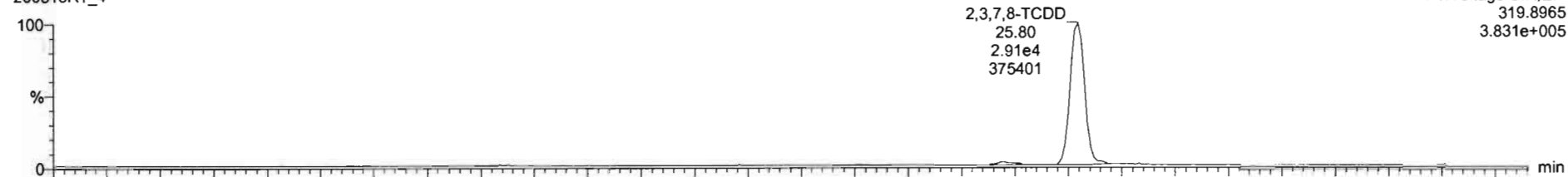
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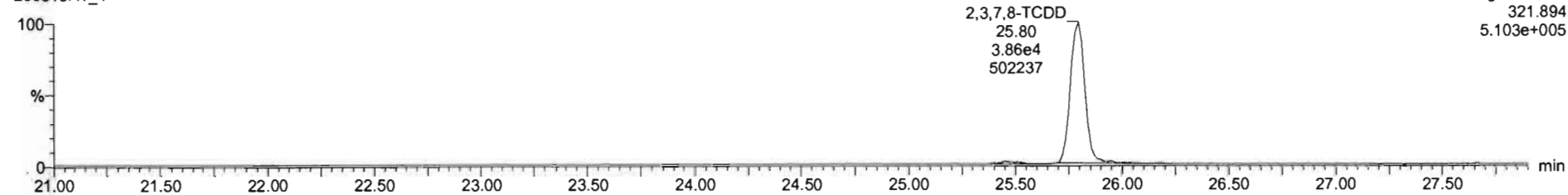
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2,3,7,8-TCDD

200318R1_4

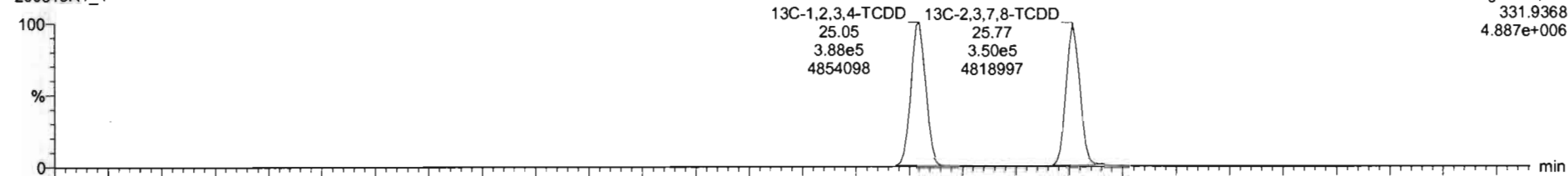


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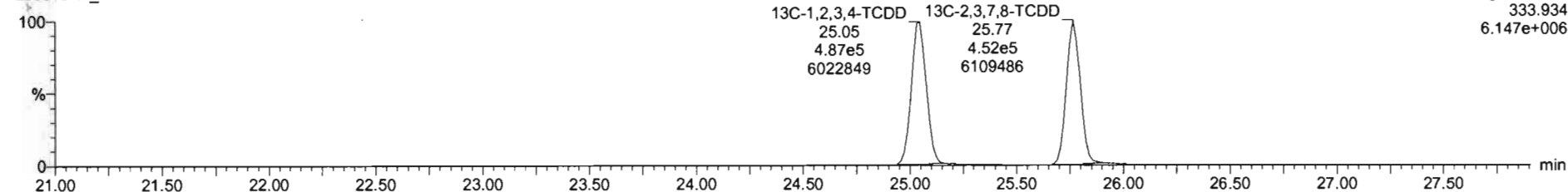


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200318R1_4



200318R1_4



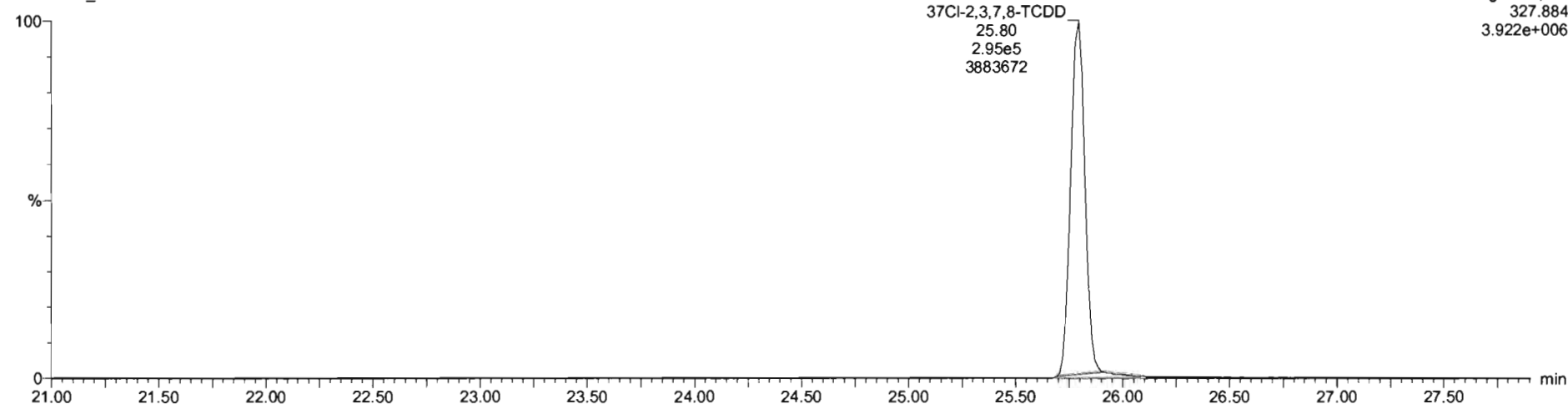
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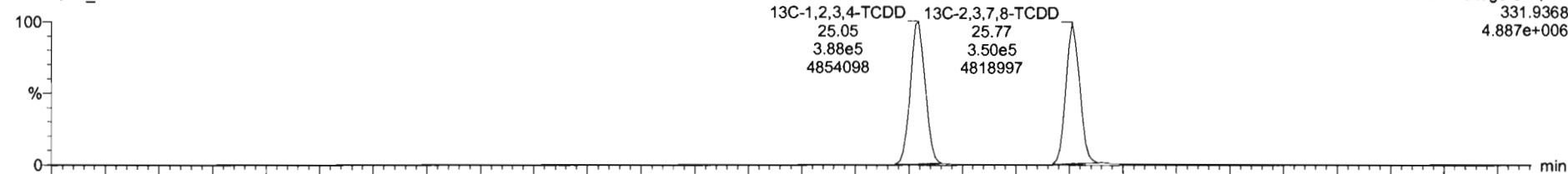
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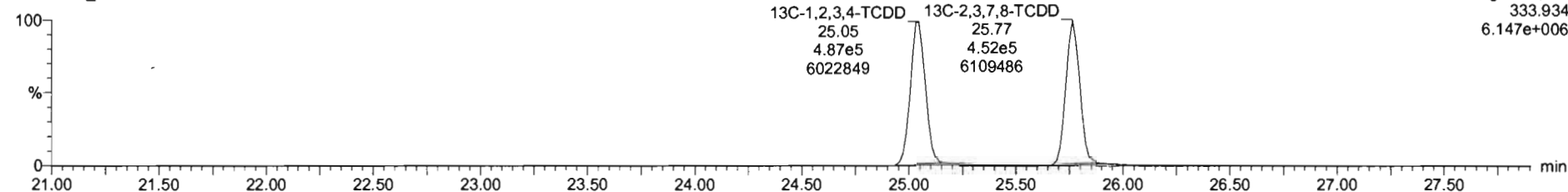


13C-1,2,3,4-TCDD

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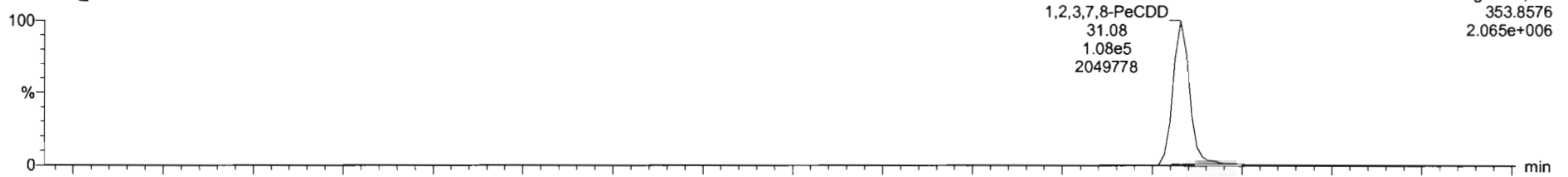
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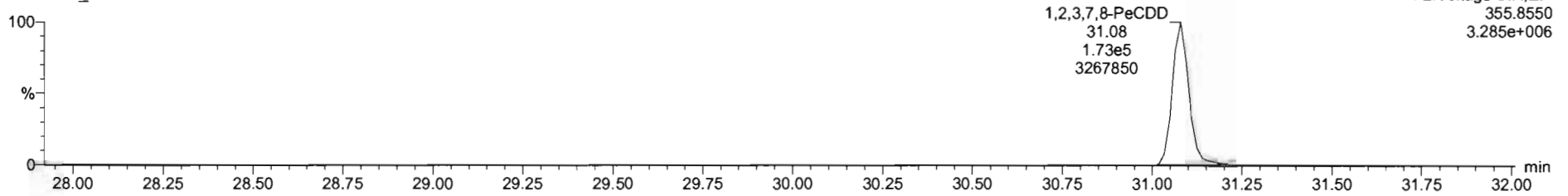
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1,2,3,7,8-PeCDD

200318R1_4

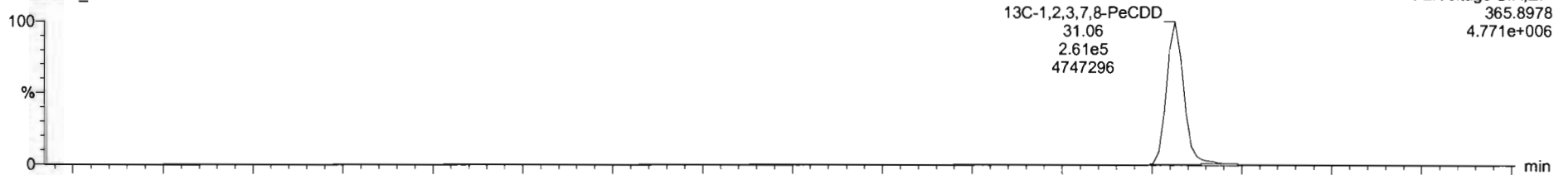


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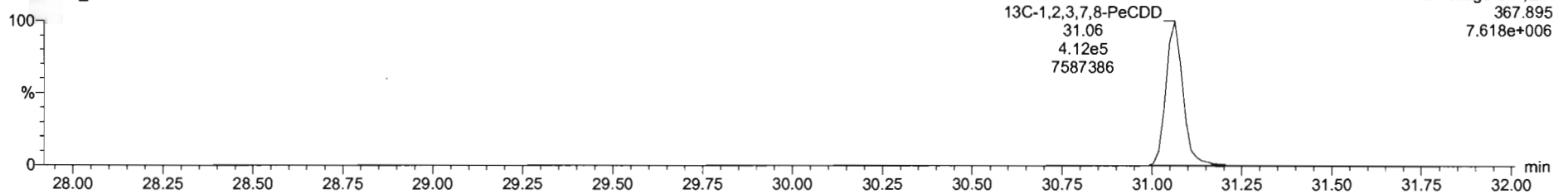


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200318R1_4



200318R1_4



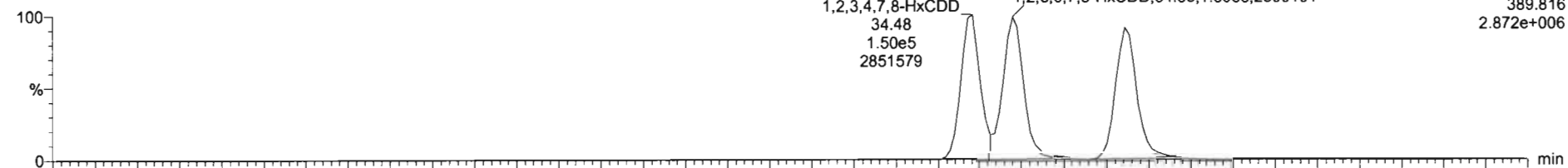
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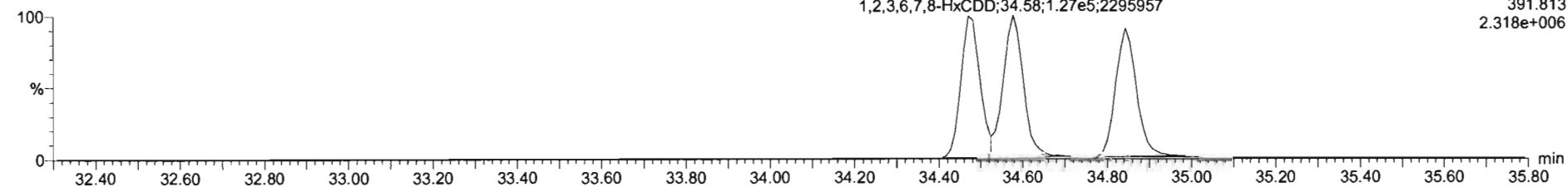
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1,2,3,4,7,8-HxCDD

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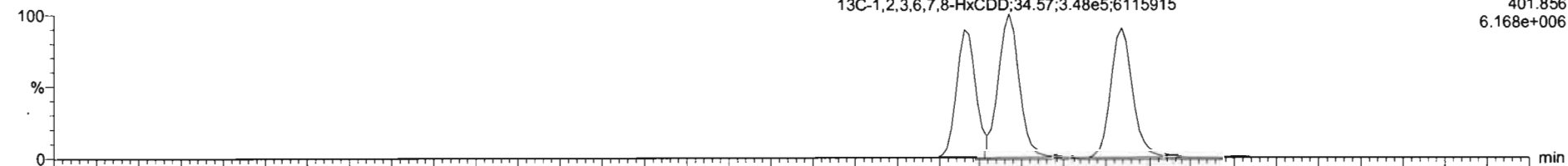


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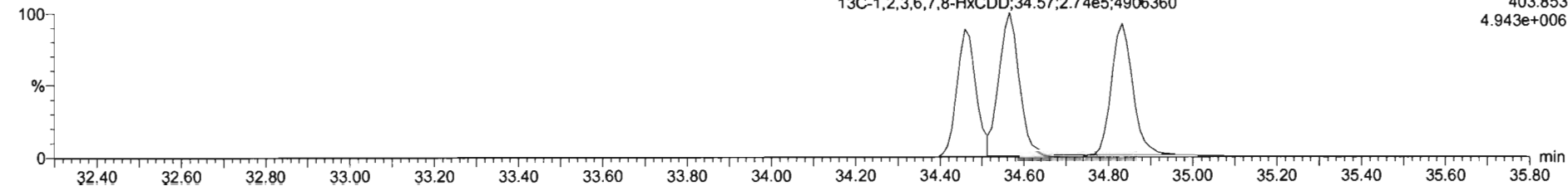


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200318R1_4



200318R1_4



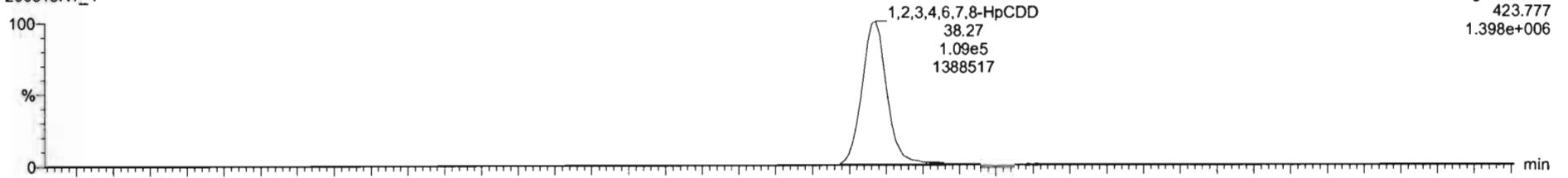
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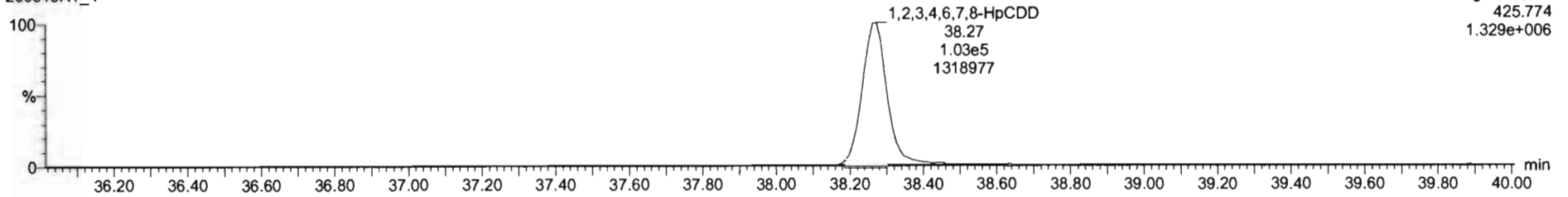
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1,2,3,4,6,7,8-HpCDD

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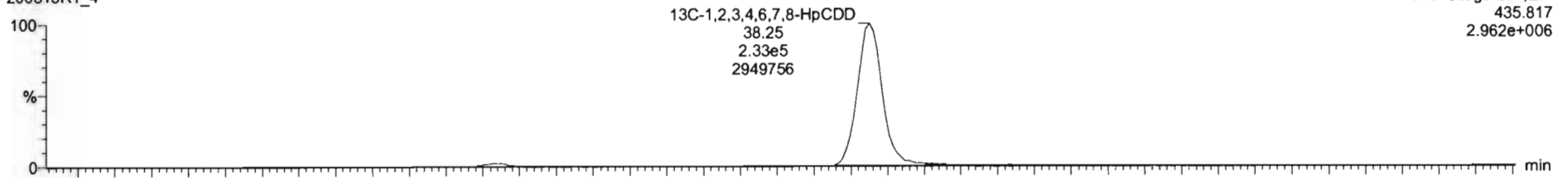


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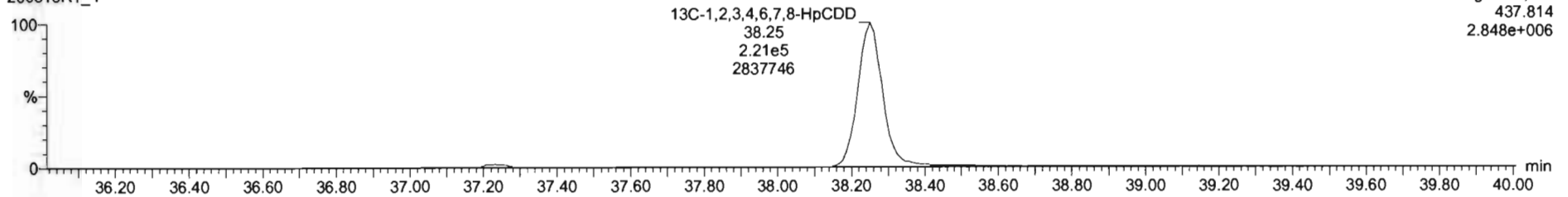


13C-1,2,3,4,6,7,8-HpCDD

200318R1_4



200318R1_4



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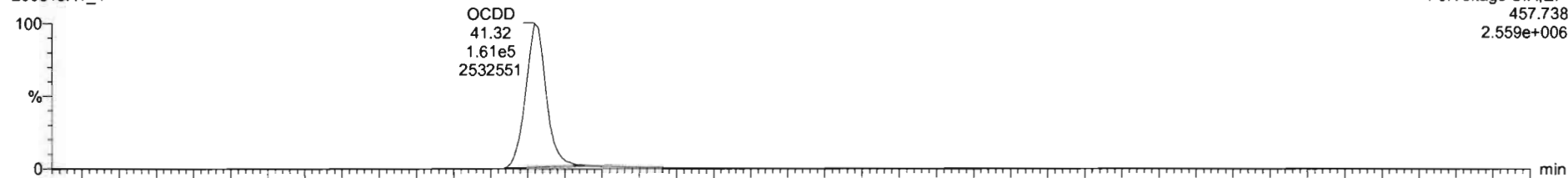
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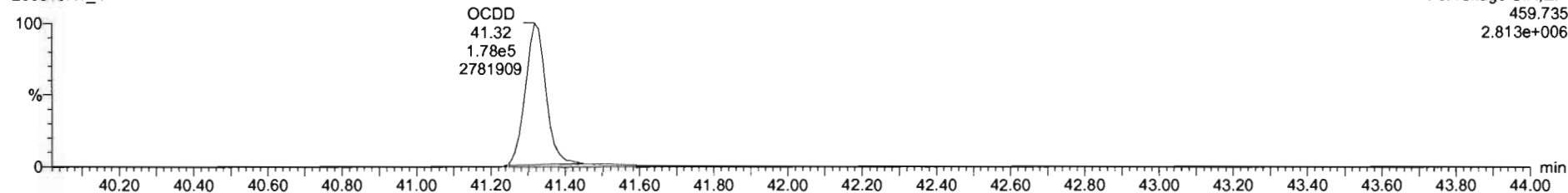
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OCDD

200318R1_4

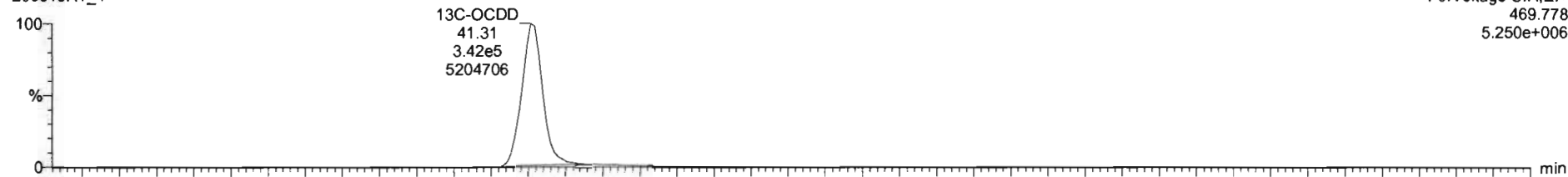


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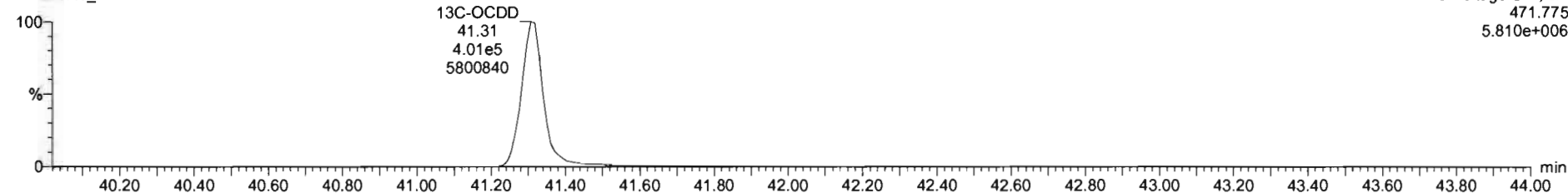


13C-OCDD

200318R1_4

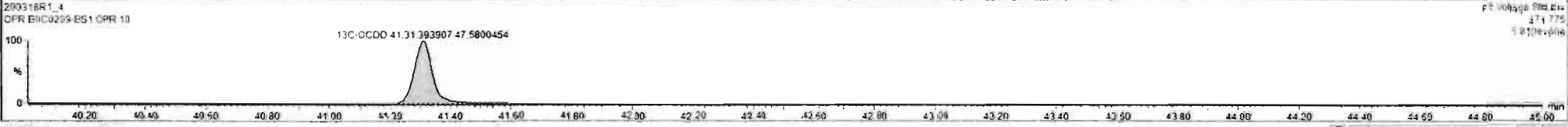
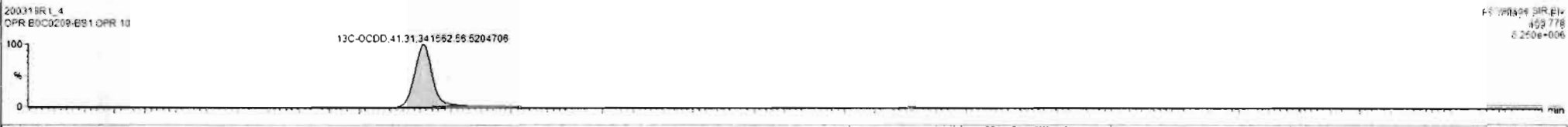
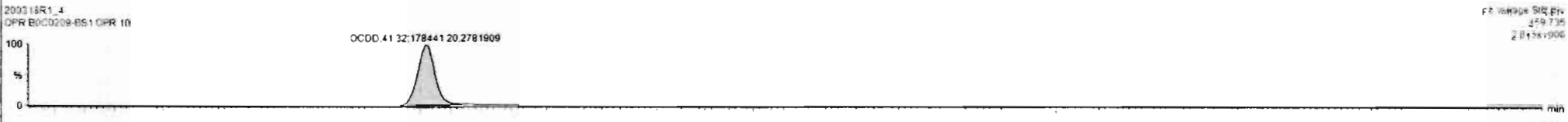


200318R1_4



200318R1_4 - B0C0209-BS1 OPR 10 - OPR

Name	Resp	RA	nly	RRF	w%vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	6.77e4	0.75	NO	0.9835	10.000	25.80	1.001	17.2		0.0925	17.2
2 1,2,3,7,8-PeCDD	2.81e5	0.82	NO	0.9212	10.000	31.02	1.000	90.7		0.161	90.7
3 1,2,3,4,7,8-HxCDD	2.71e5	1.25	NO	1.1325	10.000	34.46	1.001	52.8		0.179	52.8
4 1,2,3,6,7,8-HxCDD	2.86e5	1.25	NO	0.9844	10.000	34.58	1.000	93.4		0.183	93.4
5 1,2,3,7,8,9-HxCDD	2.68e5	1.26	NO	0.9674	10.000	34.84	1.000	94.7		0.206	94.7
6 1,2,3,4,6,7,8-HpCDD	2.12e5	1.06	NO	1.0061	10.000	36.27	1.001	92.7		0.344	92.7
7 OCDD	3.40e5	0.90	NO	1.0516	10.000	41.32	1.000	178		0.229	178
8 2,3,7,8-TCDF	8.72e4	0.77	NO	0.9154	10.000	24.79	1.001	18.0		0.0665	18.0
9 1,2,3,7,8-PeCDF	4.25e5	1.62	NO	0.9564	10.000	29.72	1.001	92.7		0.173	92.7
10 2,3,4,7,8-PeCDF	4.36e5	1.57	NO	1.0035	10.000	30.76	1.001	93.3		0.154	93.3
11 1,2,3,4,7,8-HxCDF	3.44e5	1.24	NO	1.0381	10.000	33.63	1.000	92.9		0.196	92.9
12 1,2,3,6,7,8-HxCDF	3.91e5	1.22	NO	1.0126	10.000	32.75	1.000	95.5		0.168	95.5
13 2,3,4,6,7,8-HxCDF	3.82e5	1.23	NO	1.0920	10.000	34.31	1.000	93.3		0.168	93.3
14 1,2,3,7,8,9-HxCDF	3.01e5	1.22	NO	1.0268	10.000	35.18	1.000	90.6		0.257	90.6
15 1,2,3,4,6,7,8-HpCDF	2.74e5	1.01	NO	1.0483	10.000	36.86	1.000	89.8		0.242	89.8
16 1,2,3,4,7,8,9-HpCDF	2.17e5	1.02	NO	1.2099	10.000	38.92	1.001	91.0		0.326	91.0
17 OCDF	4.04e5	0.89	NO	0.9468	10.000	41.50	1.000	186		0.216	186



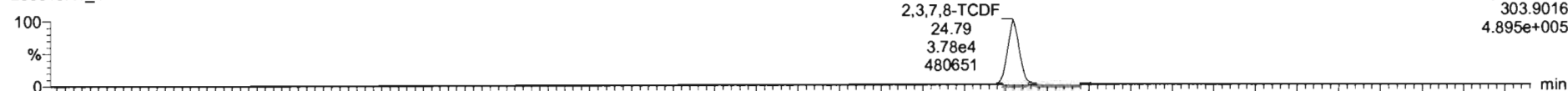
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Printed: Thursday, March 19, 2020 07:32:25 Pacific Daylight Time

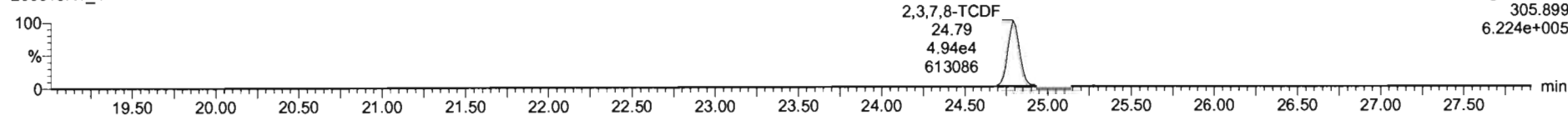
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2,3,7,8-TCDF

200318R1_4

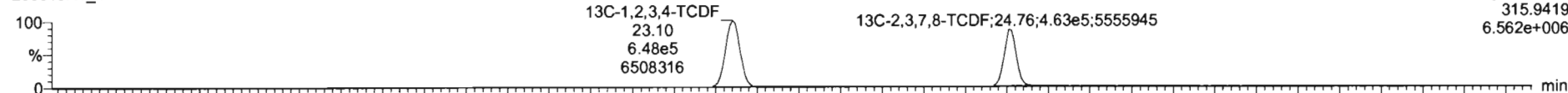


200318R1_4

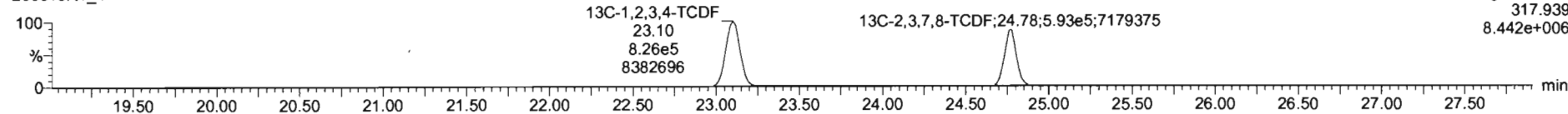


13C-2,3,7,8-TCDF

200318R1_4

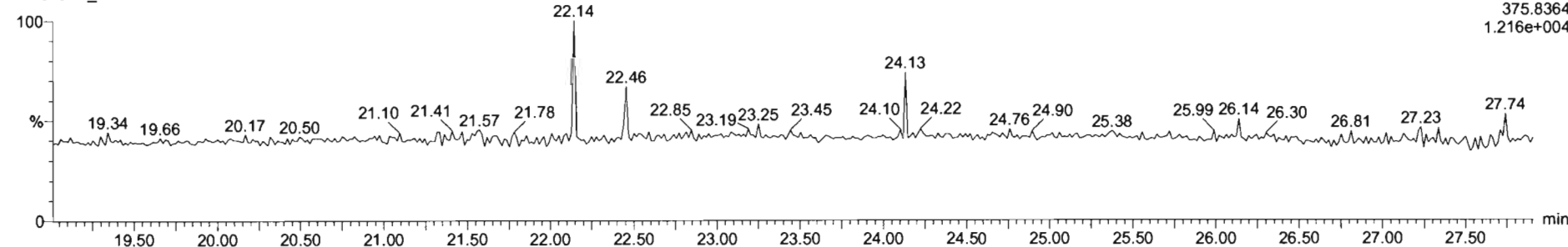


200318R1_4



DPE1

200318R1_4

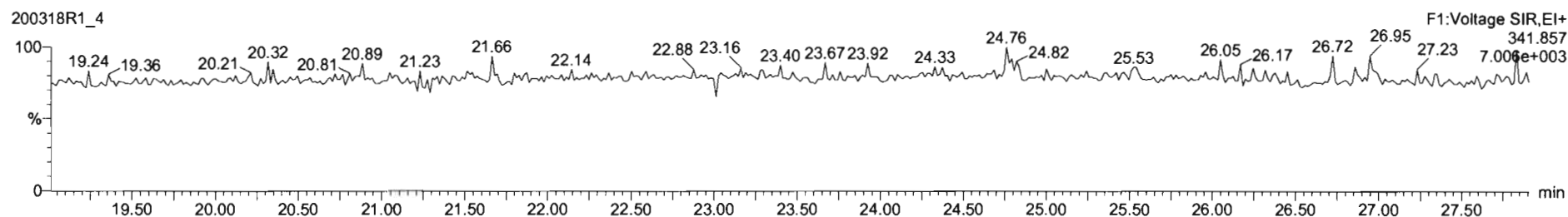
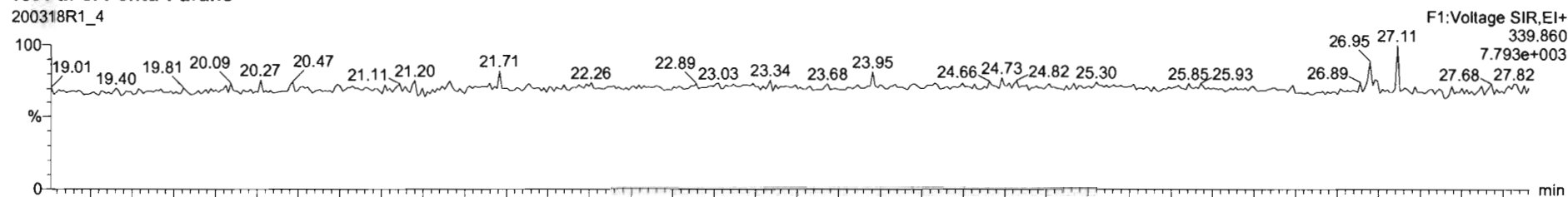


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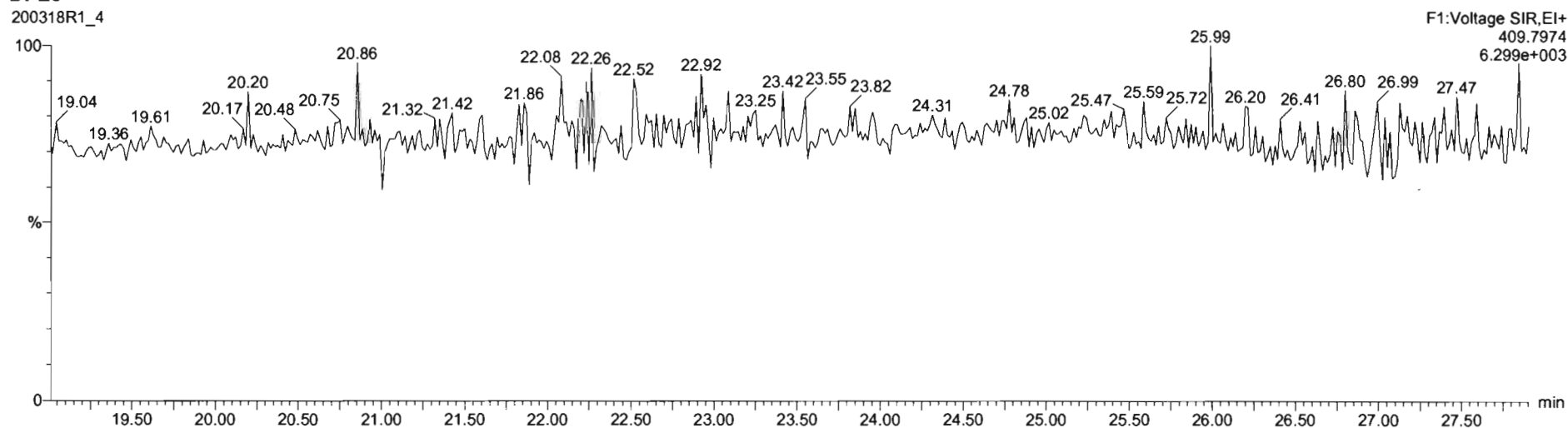
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Printed: Thursday, March 19, 2020 07:32:25 Pacific Daylight Time

Name: 200318R1_4, Date: 18-Mar-2020, Time: 17:52:09, ID: B0C0209-BS1 OPR 10, Description: OPR

1st Func. Penta-Furans



DPE6

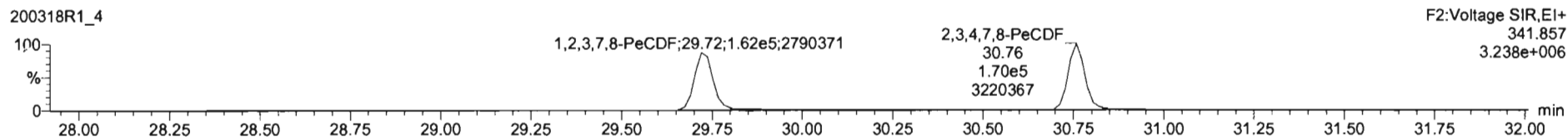
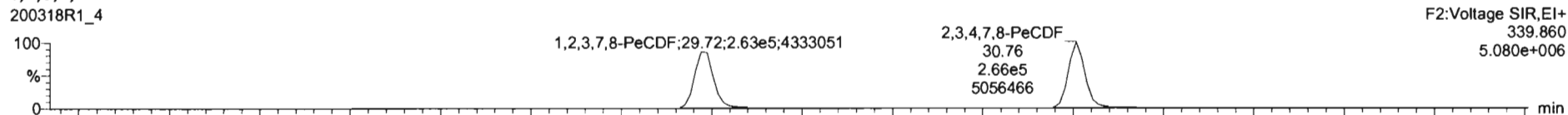


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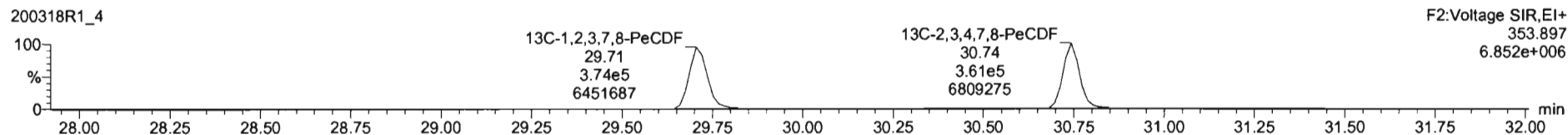
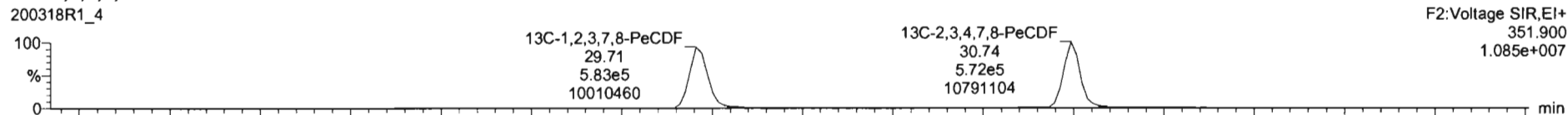
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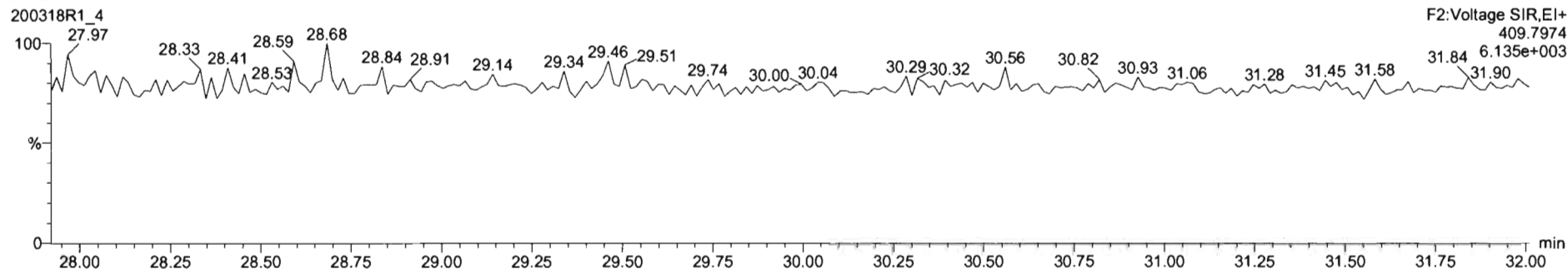
1,2,3,7,8-PeCDF



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



DPE2



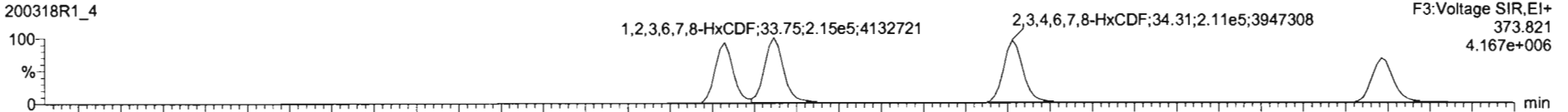
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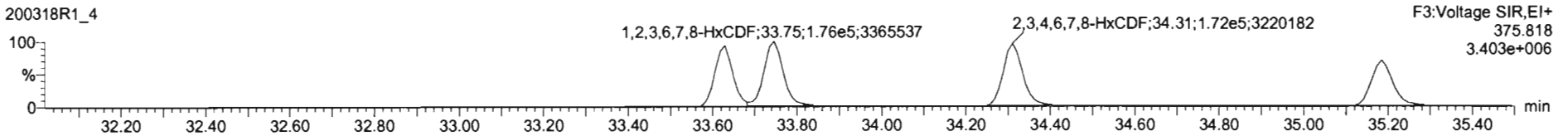
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1,2,3,4,7,8-HxCDF

200318R1_4

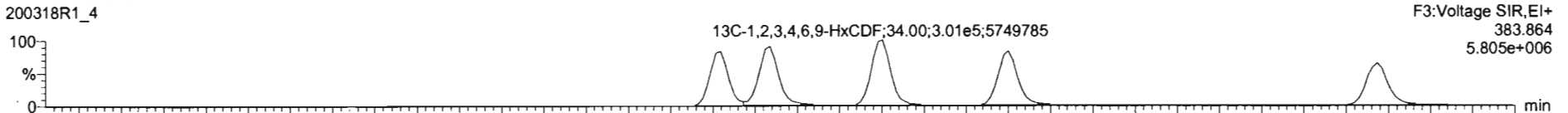


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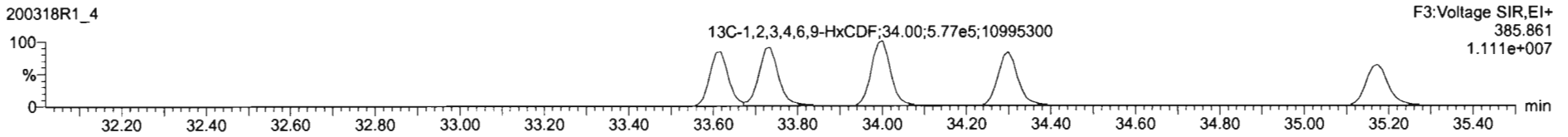


13C-1,2,3,4,7,8-HxCDF

200318R1_4

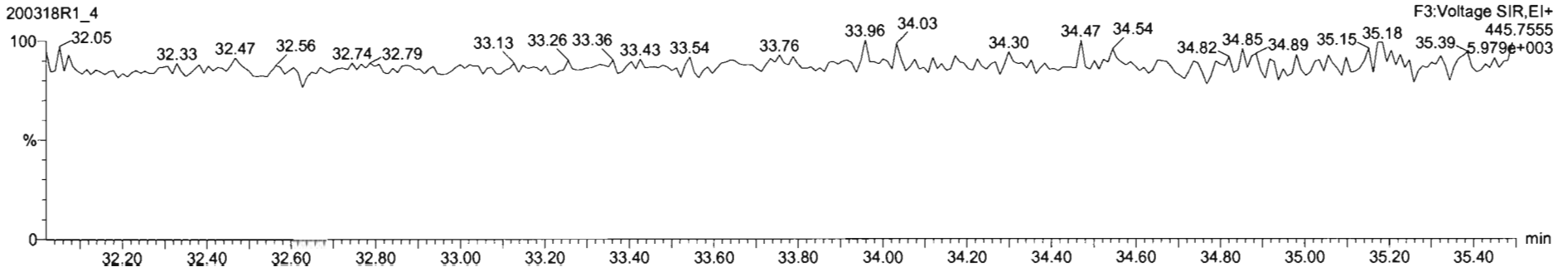


200318R1_4



DPE3

200318R1_4



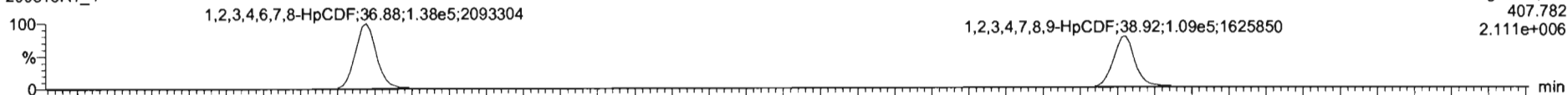
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Last Altered: Thursday, March 19, 2020 07:31:38 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:32:25 Pacific Daylight Time

Name: 200318R1_4, Date: 18-Mar-2020, Time: 17:52:09, ID: B0C0209-BS1 OPR 10, Description: OPR

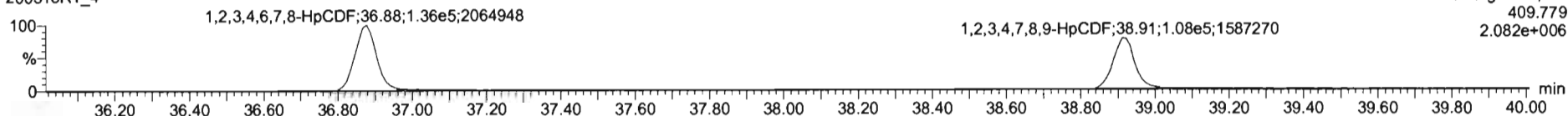
1,2,3,4,6,7,8-HpCDF

200318R1_4



F4:Voltage SIR,EI+
407.782
2.111e+006

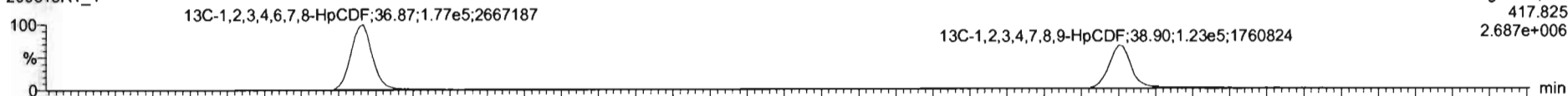
200318R1_4



F4:Voltage SIR,EI+
409.779
2.082e+006

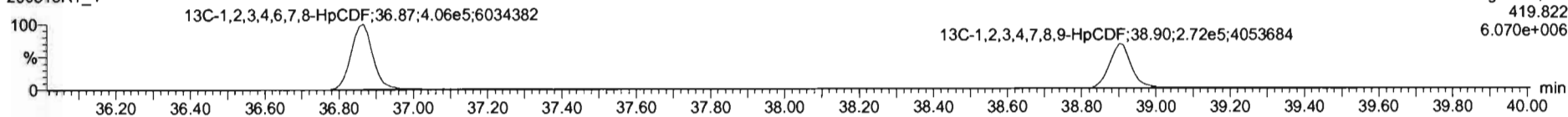
13C-1,2,3,4,6,7,8-HpCDF

200318R1_4



F4:Voltage SIR,EI+
417.825
2.687e+006

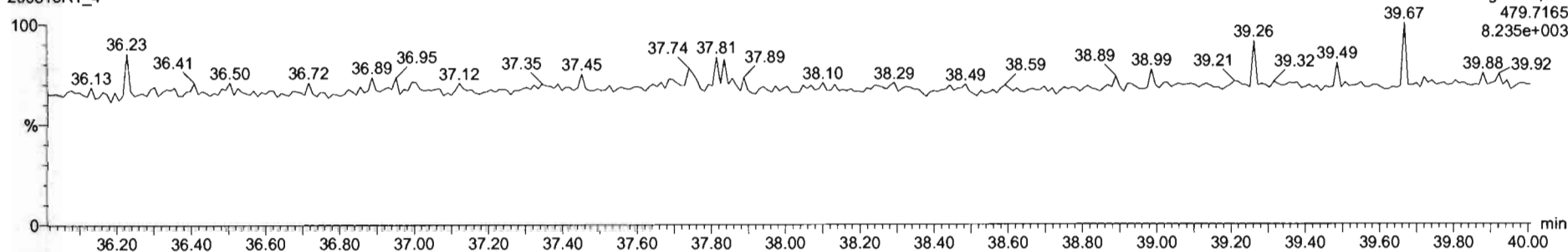
200318R1_4



F4:Voltage SIR,EI+
419.822
6.070e+006

DPE4

200318R1_4

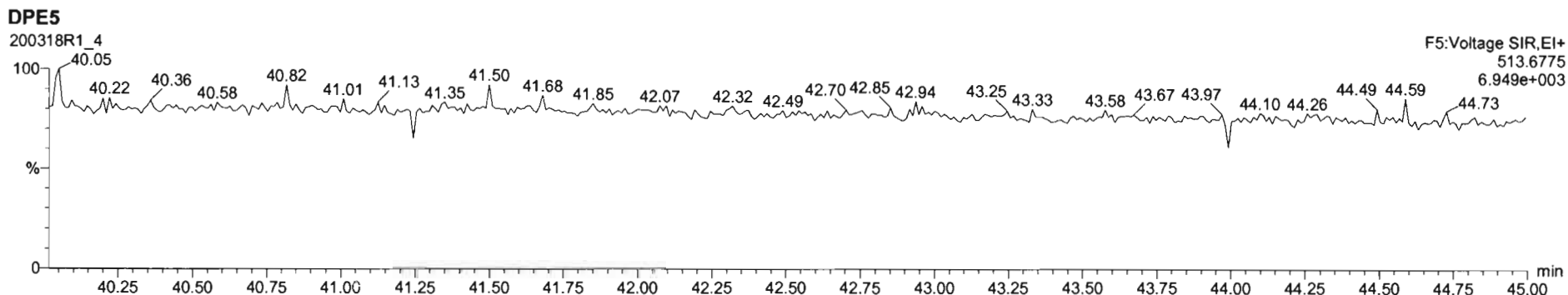
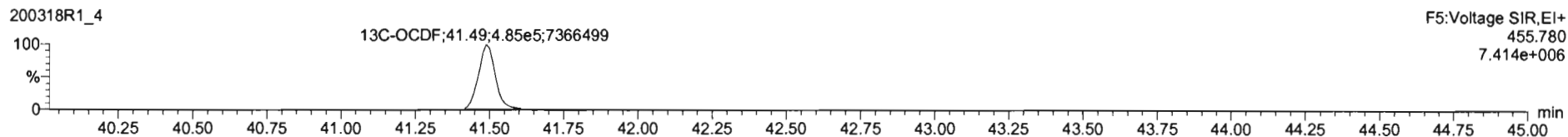
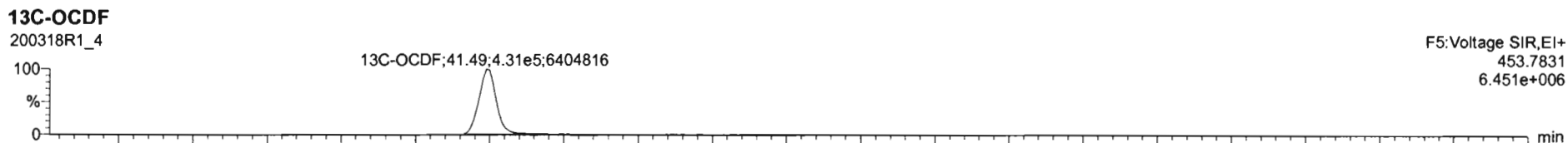
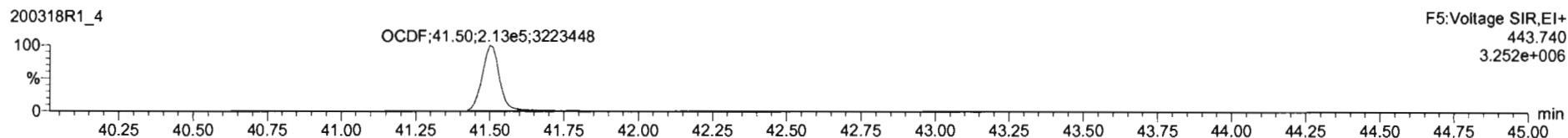
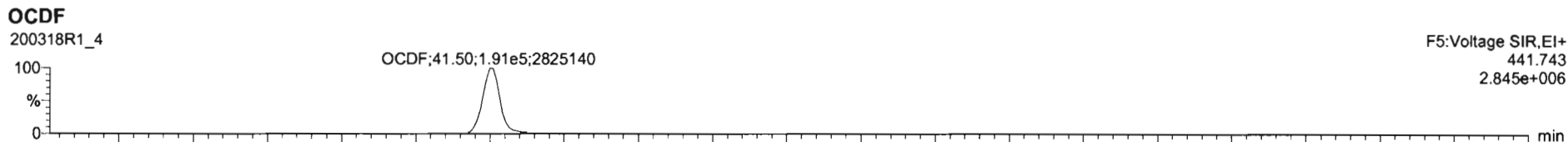


F4:Voltage SIR,EI+
479.7165
8.235e+003

Dataset: Untitled

Last Altered: Thursday, March 19, 2020 07:31:38 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:32:25 Pacific Daylight Time

Name: 200318R1_4, Date: 18-Mar-2020, Time: 17:52:09, ID: B0C0209-BS1 OPR 10, Description: OPR

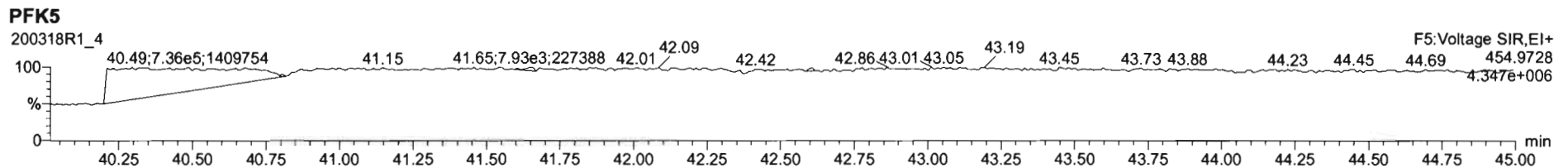
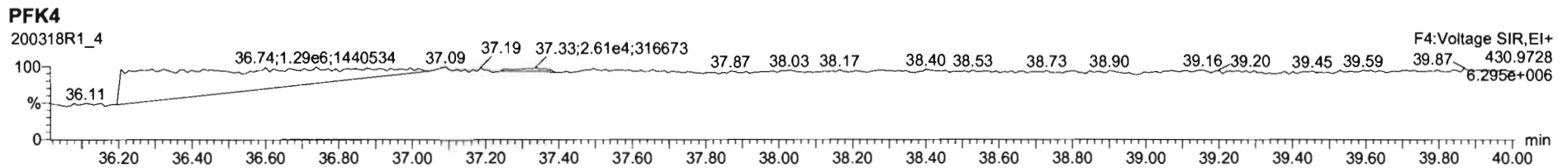
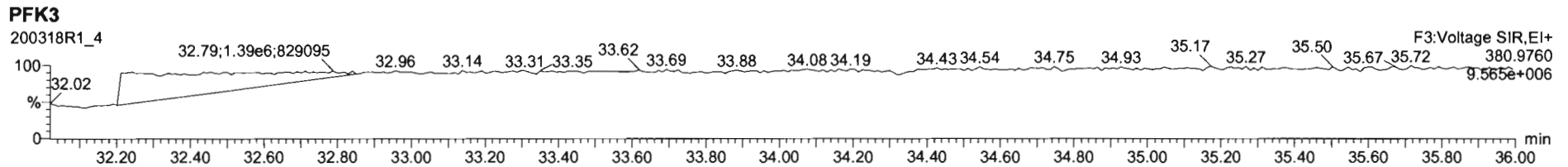
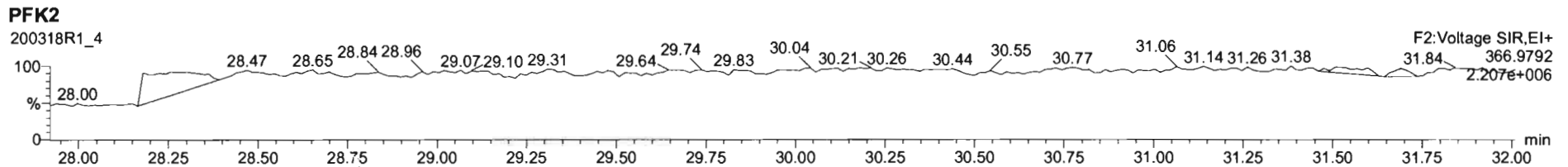
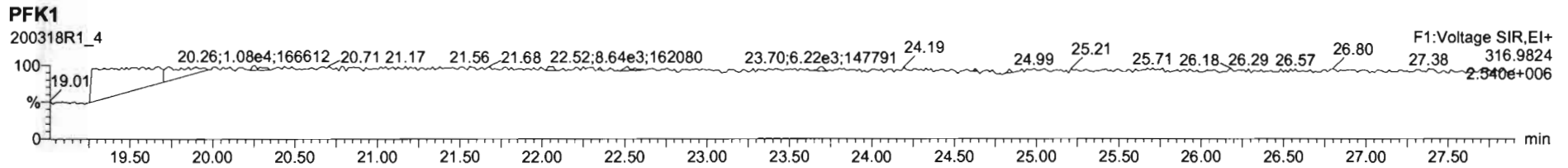


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Last Altered: Thursday, March 19, 2020 07:31:38 Pacific Daylight Time

Printed: Thursday, March 19, 2020 07:32:25 Pacific Daylight Time

Name: 200318R1_4, Date: 18-Mar-2020, Time: 17:52:09, ID: B0C0209-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\200202R2\200202R2-6.qld

Last Altered: Friday, February 14, 2020 13:22:26 Pacific Standard Time

Printed: Friday, February 14, 2020 13:28:19 Pacific Standard Time

HN 02/14/2020

*E see dilution

ET 02/14/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R2_6, Date: 03-Feb-2020, Time: 02:12:02, ID: 1903827-01 PDI-057SC-B-00-02-191023 19.01, Description: PDI-057SC-B-00-02-191023

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	18554.430	0.696	NO	0.988	10.101	25.72	25.71	1.00	1.00	NO	2.664		0.0931	2.664
2	2 1,2,3,7,8-PeCDD	18123.810	0.613	NO	0.972	10.101	30.64	30.64	1.00	1.00	NO	3.170		0.0997	3.170
3	3 1,2,3,4,7,8-HxCDD	19012.018	1.085	NO	1.07	10.101	33.99	34.00	1.00	1.00	NO	3.839		0.269	3.839
4	4 1,2,3,6,7,8-HxCDD	103775.860	1.168	NO	0.921	10.101	34.08	34.09	1.00	1.00	NO	19.93		0.262	19.93
5	5 1,2,3,7,8,9-HxCDD	38592.820	1.242	NO	0.918	10.101	34.39	34.37	1.00	1.00	NO	7.934		0.301	7.934
6	6 1,2,3,4,6,7,8-HpCDD	2947454.6...	1.021	NO	0.923	10.101	37.92	37.92	1.00	1.00	NO	805.6		1.68	805.6
7	7 OCDD	31161190....	0.891	NO	0.975	10.101	40.92	40.93	1.00	1.00	NO	11080	✓ E	1.11	11080
8	8 2,3,7,8-TCDF	1935628.3...	0.759	NO	0.802	10.101	24.83	24.82	1.00	1.00	NO	263.1	OK	0.161	263.1
9	9 1,2,3,7,8-PeCDF	2679926.5...	1.529	NO	0.907	10.101	29.38	29.37	1.00	1.00	NO	311.4		0.241	311.4
10	10 2,3,4,7,8-PeCDF	1200856.3...	1.513	NO	0.952	10.101	30.35	30.33	1.00	1.00	NO	152.7		0.235	152.7
11	11 1,2,3,4,7,8-HxCDF	2917473.5...	1.178	NO	0.862	10.101	33.11	33.12	1.00	1.00	NO	543.4		0.320	543.4
12	12 1,2,3,6,7,8-HxCDF	759896.782	1.193	NO	0.841	10.101	33.24	33.25	1.00	1.00	NO	139.9		0.322	139.9
13	13 2,3,4,6,7,8-HxCDF	189470.922	1.173	NO	0.898	10.101	33.85	33.83	1.00	1.00	NO	35.60		0.350	35.60
14	14 1,2,3,7,8,9-HxCDF	238958.453	1.155	NO	0.858	10.101	34.72	34.78	1.00	1.00	NO	49.16		0.412	49.16
15	15 1,2,3,4,6,7,8-HpCDF	1146712.7...	0.967	NO	0.851	10.101	36.51	36.48	1.00	1.00	NO	319.3		0.593	319.3
16	16 1,2,3,4,7,8,9-HpCDF	327584.797	0.971	NO	0.980	10.101	38.50	38.51	1.00	1.00	NO	109.6		0.634	109.6
17	17 OCDF	2029021.1...	0.853	NO	0.806	10.101	41.11	41.12	1.00	1.00	NO	766.3		0.348	766.3
18	18 13C-2,3,7,8-TCDD	1395867.3...	0.797	NO	1.20	10.101	25.69	25.69	1.03	1.03	NO	152.3	76.9	0.194	
19	19 13C-1,2,3,7,8-PeCDD	1164405.7...	0.628	NO	0.967	10.101	30.43	30.62	1.22	1.22	NO	157.5	79.5	0.195	
20	20 13C-1,2,3,4,7,8-HxCDD	915729.750	1.265	NO	0.874	10.101	33.98	33.98	1.01	1.01	NO	139.8	70.6	0.268	
21	21 13C-1,2,3,6,7,8-HxCDD	1119380.000	1.246	NO	1.05	10.101	34.08	34.08	1.02	1.02	NO	142.8	72.1	0.224	
22	22 13C-1,2,3,7,8,9-HxCDD	1048924.2...	1.296	NO	0.974	10.101	34.38	34.36	1.03	1.03	NO	143.6	72.5	0.241	
23	23 13C-1,2,3,4,6,7,8-HpCDD	784801.500	1.042	NO	0.747	10.101	37.93	37.91	1.13	1.13	NO	140.1	70.8	0.263	
24	24 13C-OCDD	1142467.6...	0.893	NO	0.707	10.101	40.81	40.92	1.22	1.22	NO	215.7	54.5	0.225	
25	25 13C-2,3,7,8-TCDF	1816583.1...	0.779	NO	1.07	10.101	24.87	24.81	0.99	0.99	NO	144.0	72.7	0.255	
26	26 13C-1,2,3,7,8-PeCDF	1878188.3...	1.569	NO	1.00	10.101	29.20	29.35	1.17	1.17	NO	158.3	80.0	0.310	
27	27 13C-2,3,4,7,8-PeCDF	1636567.6...	1.562	NO	0.962	10.101	30.16	30.32	1.20	1.21	NO	143.7	72.6	0.322	
28	28 13C-1,2,3,4,7,8-HxCDF	1232866.2...	0.508	NO	1.05	10.101	33.11	33.11	0.99	0.99	NO	156.8	79.2	0.241	
29	29 13C-1,2,3,6,7,8-HxCDF	1278536.5...	0.513	NO	1.19	10.101	33.21	33.23	0.99	0.99	NO	143.4	72.4	0.212	
30	30 13C-2,3,4,6,7,8-HxCDF	1173154.8...	0.514	NO	1.07	10.101	33.81	33.82	1.01	1.01	NO	146.8	74.1	0.237	
31	31 13C-1,2,3,7,8,9-HxCDF	1122147.9...	0.499	NO	0.922	10.101	34.71	34.72	1.04	1.04	NO	162.3	82.0	0.274	

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-6.qld

Last Altered: Friday, February 14, 2020 13:22:26 Pacific Standard Time

Printed: Friday, February 14, 2020 13:28:19 Pacific Standard Time

Name: 200202R2_6, Date: 03-Feb-2020, Time: 02:12:02, ID: 1903827-01 PDI-057SC-B-00-02-191023 19.01, Description: PDI-057SC-B-00-02-191023

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	835455.313	0.445	NO	0.767	10.101	36.46	36.47	1.09	1.09	NO	145.3	73.4	0.303	
33	33 13C-1,2,3,4,7,8,9-HpCDF	603952.219	0.450	NO	0.552	10.101	38.47	38.50	1.15	1.15	NO	145.9	73.7	0.421	
34	34 13C-OCDF	1301692.6...	0.856	NO	0.789	10.101	41.05	41.11	1.23	1.23	NO	220.0	55.5	0.197	
35	35 37Cl-2,3,7,8-TCDD	598648.188			1.18	10.101	25.72	25.70	1.03	1.03	NO	66.54	84.0	0.0742	
36	36 13C-1,2,3,4-TCDD	1514475.1...	0.809	NO	1.00	10.101	25.08	25.05	1.00	1.00	NO	198.0	100	0.232	
37	37 13C-1,2,3,4-TCDF	2345165.0...	0.782	NO	1.00	10.101	23.42	23.39	1.00	1.00	NO	198.0	100	0.272	
38	38 13C-1,2,3,4,6,9-HxCDF	1484203.0...	0.512	NO	1.00	10.101	33.52	33.51	1.00	1.00	NO	198.0	100	0.253	
39	39 Total Tetra-Dioxins				0.988	10.101	24.62		0.00		NO	21.88		0.0931	21.99
40	40 Total Penta-Dioxins				0.972	10.101	29.96		0.00		NO	27.79		0.0997	27.79
41	41 Total Hexa-Dioxins				0.921	10.101	33.63		0.00		NO	197.8		0.290	197.8
42	42 Total Hepta-Dioxins				0.923	10.101	37.64		0.00		NO	1953		1.68	1953
43	43 Total Tetra-Furans				0.802	10.101	23.61		0.00		NO	830.4		0.161	831.1
44	44 1st Func. Penta-Furans				0.907	10.101	27.09		0.00		NO	40.63		0.0478	40.63
45	45 Total Penta-Furans				0.907	10.101	29.27		0.00		NO	875.0		0.244	875.0
46	46 Total Hexa-Furans				0.898	10.101	33.56		0.00		NO	1012		0.336	1012
47	47 Total Hepta-Furans				0.851	10.101	37.83		0.00		NO	898.1		0.651	898.1

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-6.qld

Last Altered: Tuesday, February 11, 2020 16:22:14 Pacific Standard Time

Printed: Tuesday, February 11, 2020 16:27:38 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R2_6, Date: 03-Feb-2020, Time: 02:12:02, ID: 1903827-01 PDI-057SC-B-00-02-191023 19.01, Description: PDI-057SC-B-00-02-191023

Tetra-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	1 2,3,7,8-TCDD	1.86e4	1.40e6	0.696	NO	25.72	25.71	2.664	2.664
2	39 Total Tetra-Dioxins	1.96e4	1.40e6	0.792	NO	24.62	25.45	2.816	2.816
3	39 Total Tetra-Dioxins	0.00e0	1.40e6	0.614	YES	24.62	25.18	0.0000	0.1145
4	39 Total Tetra-Dioxins	2.11e3	1.40e6	0.748	NO	24.62	25.02	0.3032	0.3032
5	39 Total Tetra-Dioxins	2.58e3	1.40e6	0.729	NO	24.62	24.64	0.3706	0.3706
6	39 Total Tetra-Dioxins	1.58e3	1.40e6	0.728	NO	24.62	24.48	0.2272	0.2272
7	39 Total Tetra-Dioxins	2.35e3	1.40e6	0.790	NO	24.62	24.21	0.3367	0.3367
8	39 Total Tetra-Dioxins	1.02e4	1.40e6	0.774	NO	24.62	24.01	1.463	1.463
9	39 Total Tetra-Dioxins	8.81e3	1.40e6	0.830	NO	24.62	23.79	1.265	1.265
10	39 Total Tetra-Dioxins	1.91e3	1.40e6	0.882	NO	24.62	23.55	0.2743	0.2743
11	39 Total Tetra-Dioxins	3.58e3	1.40e6	0.820	NO	24.62	22.70	0.5146	0.5146
12	39 Total Tetra-Dioxins	2.12e4	1.40e6	0.798	NO	24.62	22.17	3.046	3.046
13	39 Total Tetra-Dioxins	5.38e4	1.40e6	0.784	NO	24.62	21.74	7.726	7.726
14	39 Total Tetra-Dioxins	1.11e3	1.40e6	0.840	NO	24.62	26.66	0.1592	0.1592
15	39 Total Tetra-Dioxins	4.94e3	1.40e6	0.698	NO	24.62	26.03	0.7097	0.7097

Penta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	9.89e3	1.16e6	0.634	NO	29.96	28.91	1.730	1.730
2	40 Total Penta-Dioxins	5.37e4	1.16e6	0.602	NO	29.96	28.42	9.391	9.391
3	40 Total Penta-Dioxins	4.31e3	1.16e6	0.581	NO	29.96	31.02	0.7536	0.7536
4	40 Total Penta-Dioxins	3.48e3	1.16e6	0.606	NO	29.96	30.71	0.6093	0.6093
5	2 1,2,3,7,8-PeCDD	1.81e4	1.16e6	0.613	NO	30.64	30.64	3.170	3.170
6	40 Total Penta-Dioxins	5.22e3	1.16e6	0.692	NO	29.96	30.21	0.9134	0.9134
7	40 Total Penta-Dioxins	1.46e4	1.16e6	0.599	NO	29.96	29.87	2.554	2.554
8	40 Total Penta-Dioxins	1.04e4	1.16e6	0.652	NO	29.96	29.66	1.822	1.822
9	40 Total Penta-Dioxins	1.33e4	1.16e6	0.661	NO	29.96	29.57	2.325	2.325
10	40 Total Penta-Dioxins	2.58e4	1.16e6	0.678	NO	29.96	29.40	4.518	4.518

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-6.qld

Last Altered: Tuesday, February 11, 2020 16:22:14 Pacific Standard Time

Printed: Tuesday, February 11, 2020 16:27:38 Pacific Standard Time

Name: 200202R2_6, Date: 03-Feb-2020, Time: 02:12:02, ID: 1903827-01 PDI-057SC-B-00-02-191023 19.01, Description: PDI-057SC-B-00-02-191023

Hexa-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	3.86e4	1.05e6	1.242	NO	34.39	34.37	7.934	7.934
2	41 Total Hexa-Dioxins	1.13e4	0.00e0	1.122	NO	33.63	34.28	2.364	2.364
3	4 1,2,3,6,7,8-HxCDD	1.04e5	1.12e6	1.168	NO	34.08	34.09	19.93	19.93
4	3 1,2,3,4,7,8-HxCDD	1.90e4	9.16e5	1.085	NO	33.99	34.00	3.839	3.839
5	41 Total Hexa-Dioxins	1.84e4	0.00e0	1.257	NO	33.63	33.43	3.844	3.844
6	41 Total Hexa-Dioxins	3.29e5	0.00e0	1.222	NO	33.63	33.32	68.89	68.89
7	41 Total Hexa-Dioxins	5.61e4	0.00e0	1.178	NO	33.63	33.06	11.73	11.73
8	41 Total Hexa-Dioxins	3.79e5	0.00e0	1.225	NO	33.63	32.51	79.26	79.26

Hepta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	2.95e6	7.85e5	1.021	NO	37.92	37.92	805.6	805.6
2	42 Total Hepta-Dioxins	4.20e6	7.85e5	0.997	NO	37.64	36.87	1147	1147

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-6.qld

Last Altered: Tuesday, February 11, 2020 16:22:14 Pacific Standard Time

Printed: Tuesday, February 11, 2020 16:27:38 Pacific Standard Time

Name: 200202R2_6, Date: 03-Feb-2020, Time: 02:12:02, ID: 1903827-01 PDI-057SC-B-00-02-191023 19.01, Description: PDI-057SC-B-00-02-191023

Tetra-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	6.47e4	1.82e6	0.731	NO	23.61	24.18	8.787	8.787
2	43 Total Tetra-Furans	1.86e6	1.82e6	0.743	NO	23.61	23.89	253.2	253.2
3	43 Total Tetra-Furans	5.53e5	1.82e6	0.732	NO	23.61	23.39	75.17	75.17
4	43 Total Tetra-Furans	9.27e3	1.82e6	0.745	NO	23.61	23.13	1.259	1.259
5	43 Total Tetra-Furans	1.64e4	1.82e6	0.838	NO	23.61	22.98	2.230	2.230
6	43 Total Tetra-Furans	1.06e5	1.82e6	0.762	NO	23.61	22.56	14.36	14.36
7	43 Total Tetra-Furans	1.53e4	1.82e6	0.766	NO	23.61	22.35	2.074	2.074
8	43 Total Tetra-Furans	1.66e5	1.82e6	0.742	NO	23.61	22.20	22.57	22.57
9	43 Total Tetra-Furans	4.84e5	1.82e6	0.737	NO	23.61	21.72	65.84	65.84
10	43 Total Tetra-Furans	9.49e4	1.82e6	0.743	NO	23.61	21.33	12.89	12.89
11	43 Total Tetra-Furans	1.52e5	1.82e6	0.735	NO	23.61	20.77	20.67	20.67
12	43 Total Tetra-Furans	2.88e4	1.82e6	0.688	NO	23.61	20.18	3.909	3.909
13	43 Total Tetra-Furans	1.32e4	1.82e6	0.667	NO	23.61	19.64	1.798	1.798
14	43 Total Tetra-Furans	2.30e5	1.82e6	0.839	NO	23.61	26.81	31.28	31.28
15	43 Total Tetra-Furans	0.00e0	1.82e6	1.248	YES	23.61	26.51	0.0000	0.3165
16	43 Total Tetra-Furans	0.00e0	1.82e6	1.103	YES	23.61	26.35	0.0000	0.2293
17	43 Total Tetra-Furans	0.00e0	1.82e6	1.916	YES	23.61	26.24	0.0000	0.1921
18	43 Total Tetra-Furans	2.22e4	1.82e6	0.761	NO	23.61	25.45	3.018	3.018
19	43 Total Tetra-Furans	8.90e4	1.82e6	0.744	NO	23.61	25.20	12.10	12.10
20	8 2,3,7,8-TCDF	1.94e6	1.82e6	0.759	NO	24.83	24.82	263.1	263.1
21	43 Total Tetra-Furans	2.24e5	1.82e6	0.744	NO	23.61	24.72	30.49	30.49
22	43 Total Tetra-Furans	1.57e4	1.82e6	0.781	NO	23.61	24.60	2.132	2.132
23	43 Total Tetra-Furans	2.55e4	1.82e6	0.728	NO	23.61	24.39	3.471	3.471

Penta-Furans function 1

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	3.27e5	0.00e0	1.613	NO	27.09	26.80	40.63	40.63

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-6.qld

Last Altered: Friday, February 14, 2020 13:22:26 Pacific Standard Time

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Name: 200202R2_6, Date: 03-Feb-2020, Time: 02:12:02, ID: 1903827-01 PDI-057SC-B-00-02-191023 19.01, Description: PDI-057SC-B-00-02-191023

Penta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	3.32e5	0.00e0	1.541	NO	29.27	29.17	41.25	41.25
2	45 Total Penta-Furans	2.50e5	0.00e0	1.482	NO	29.27	28.96	31.00	31.00
3	45 Total Penta-Furans	1.46e6	0.00e0	1.516	NO	29.27	28.38	181.6	181.6
4	45 Total Penta-Furans	3.97e4	0.00e0	1.519	NO	29.27	28.24	4.930	4.930
5	45 Total Penta-Furans	8.04e4	0.00e0	1.534	NO	29.27	31.26	9.988	9.988
6	10 2,3,4,7,8-PeCDF	1.20e6	1.64e6	1.513	NO	30.35	30.33	152.7	152.7
7	45 Total Penta-Furans	1.64e4	0.00e0	1.546	NO	29.27	30.22	2.038	2.038
8	45 Total Penta-Furans	5.53e3	0.00e0	1.619	NO	29.27	30.12	0.6862	0.6862
9	45 Total Penta-Furans	9.29e5	0.00e0	1.522	NO	29.27	29.63	115.4	115.4
10	9 1,2,3,7,8-PeCDF	2.68e6	1.88e6	1.529	NO	29.38	29.37	311.4	311.4
11	45 Total Penta-Furans	1.94e5	0.00e0	1.602	NO	29.27	30.38	24.03	24.03

Hexa-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	4.82e5	0.00e0	1.164	NO	33.56	32.12	88.47	88.47
2	46 Total Hexa-Furans	1.34e5	0.00e0	1.185	NO	33.56	31.96	24.65	24.65
3	14 1,2,3,7,8,9-HxCDF	2.39e5	1.12e6	1.155	NO	34.72	34.78	49.16	49.16
4	13 2,3,4,6,7,8-HxCDF	1.89e5	1.17e6	1.173	NO	33.85	33.83	35.60	35.60
5	46 Total Hexa-Furans	2.75e3	0.00e0	1.337	NO	33.56	33.63	0.5052	0.5052
6	46 Total Hexa-Furans	1.29e4	0.00e0	1.096	NO	33.56	33.52	2.365	2.365
7	12 1,2,3,6,7,8-HxCDF	7.60e5	1.28e6	1.193	NO	33.24	33.25	139.9	139.9
8	11 1,2,3,4,7,8-HxCDF	2.92e6	1.23e6	1.178	NO	33.11	33.12	543.4	543.4
9	46 Total Hexa-Furans	2.91e4	0.00e0	1.406	NO	33.56	33.03	5.338	5.338
10	46 Total Hexa-Furans	5.78e5	0.00e0	1.180	NO	33.56	32.67	106.0	106.0
11	46 Total Hexa-Furans	9.64e3	0.00e0	1.102	NO	33.56	32.49	1.769	1.769
12	46 Total Hexa-Furans	8.16e4	0.00e0	1.285	NO	33.56	34.79	14.96	14.96

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-6.qld

Last Altered: Tuesday, February 11, 2020 16:22:14 Pacific Standard Time

Printed: Tuesday, February 11, 2020 16:27:38 Pacific Standard Time

Name: 200202R2_6, Date: 03-Feb-2020, Time: 02:12:02, ID: 1903827-01 PDI-057SC-B-00-02-191023 19.01, Description: PDI-057SC-B-00-02-191023

Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	3.28e5	6.04e5	0.971	NO	38.50	38.51	109.6	109.6
2	47 Total Hepta-Furans	1.43e6	0.00e0	0.982	NO	37.83	37.10	462.3	462.3
3	47 Total Hepta-Furans	2.11e4	0.00e0	0.927	NO	37.83	36.88	6.813	6.813
4	15 1,2,3,4,6,7,8-HpCDF	1.15e6	8.35e5	0.967	NO	36.51	36.48	319.3	319.3

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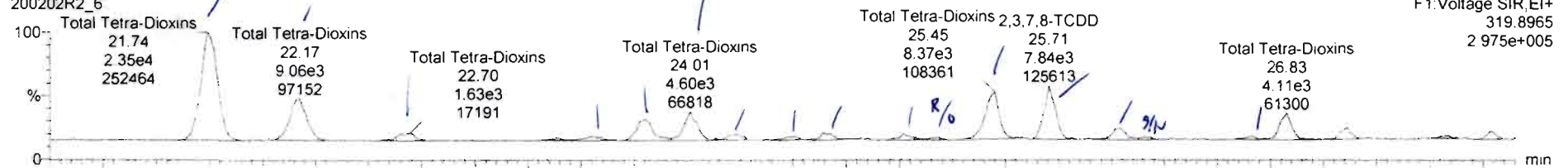
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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

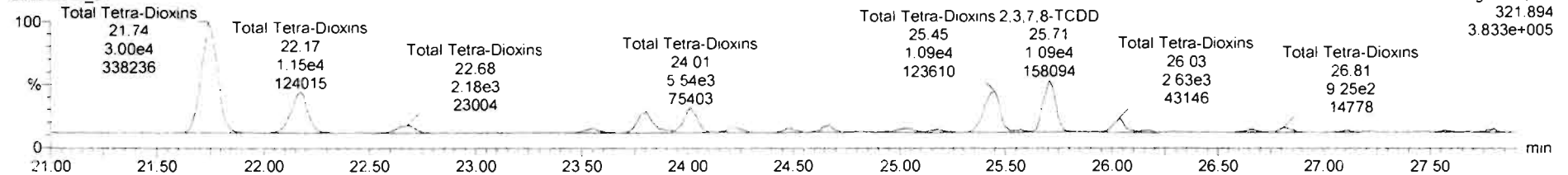
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2,3,7,8-TCDD

200202R2_6

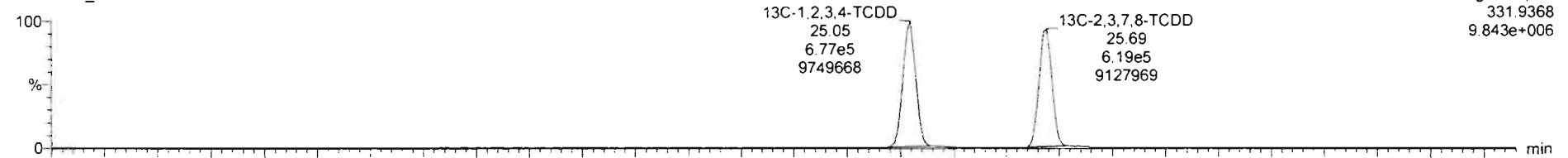


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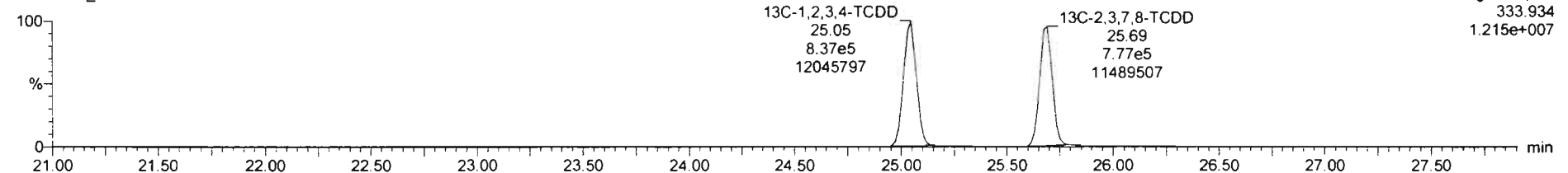


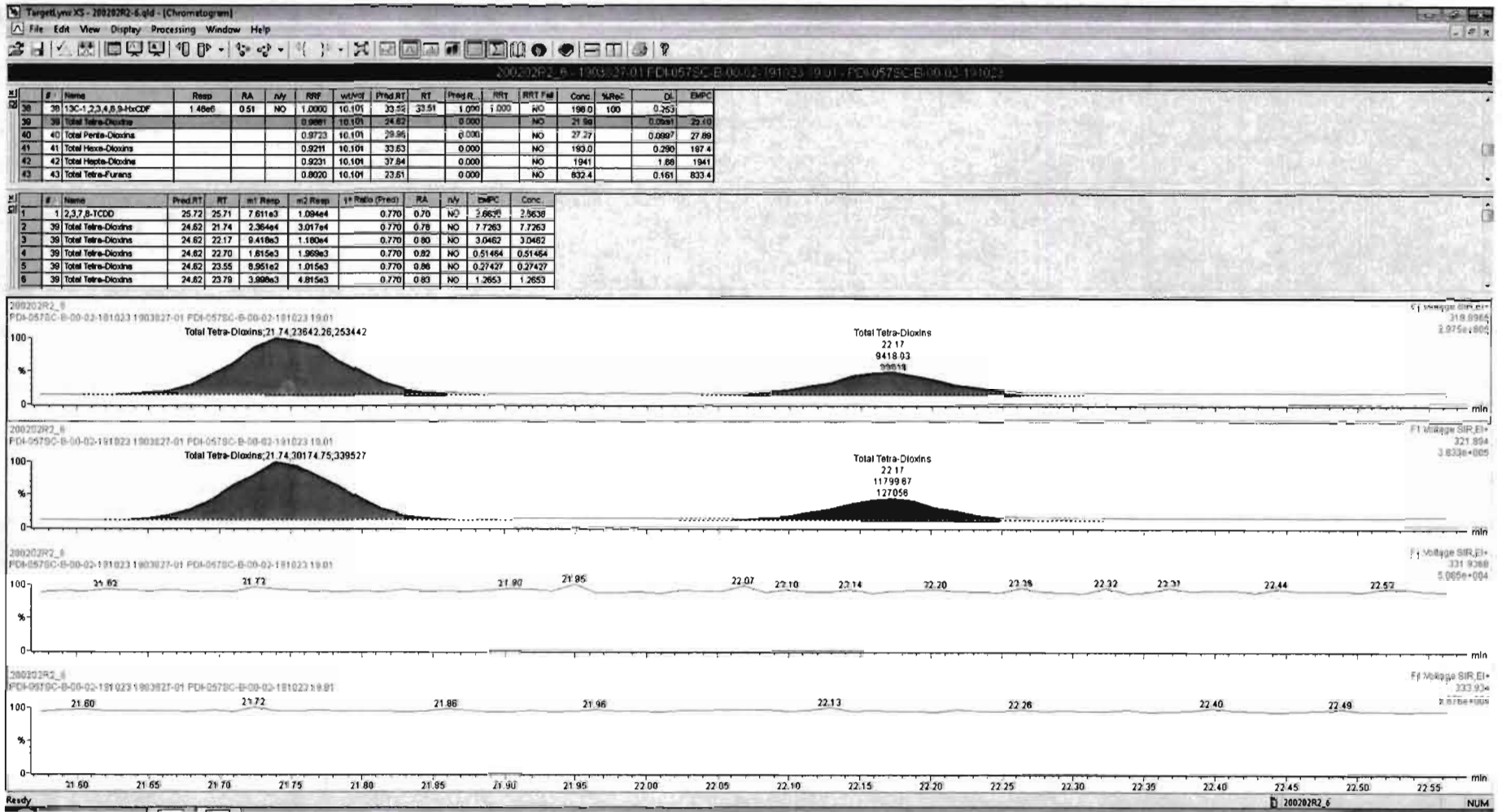
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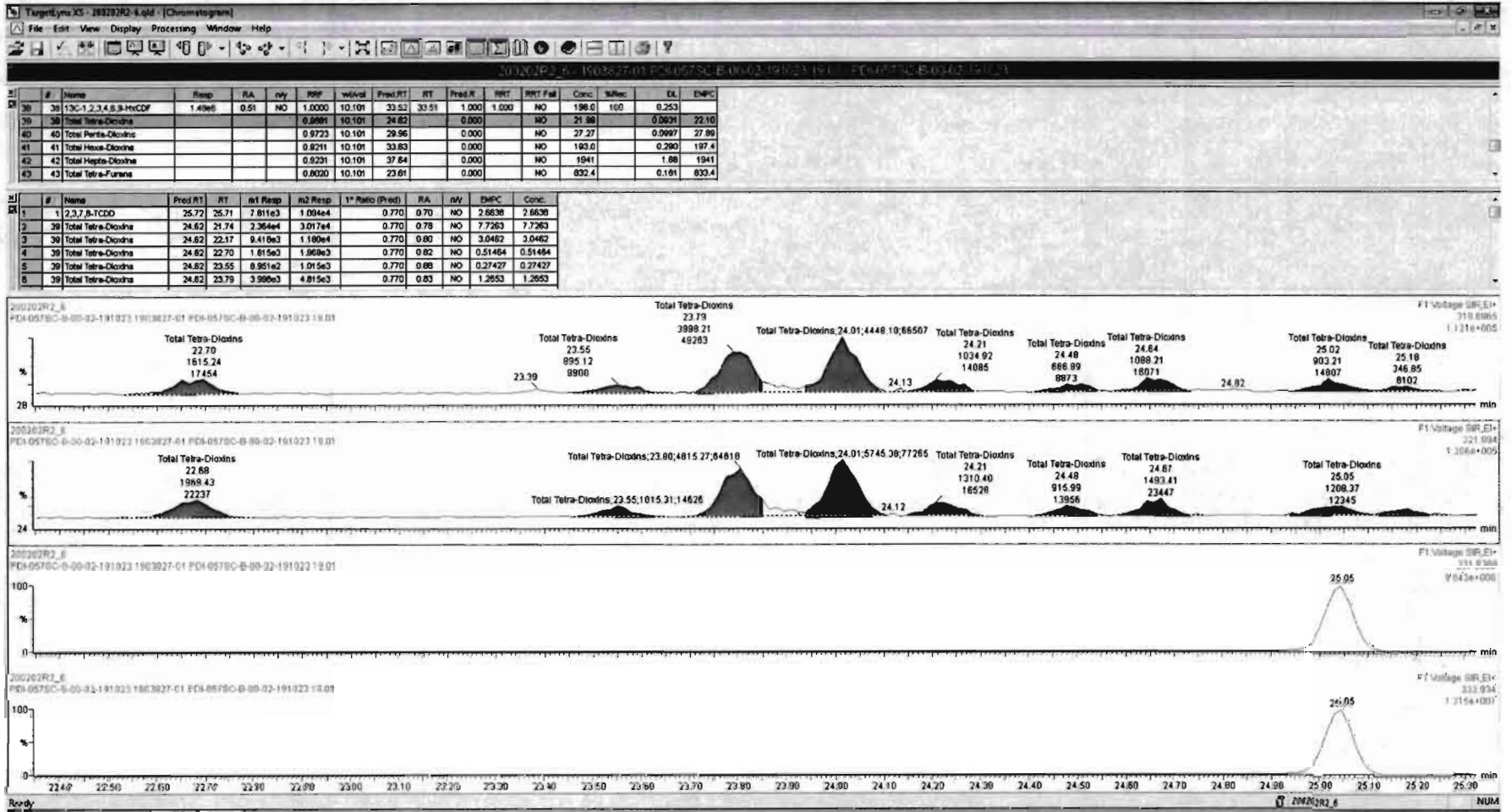
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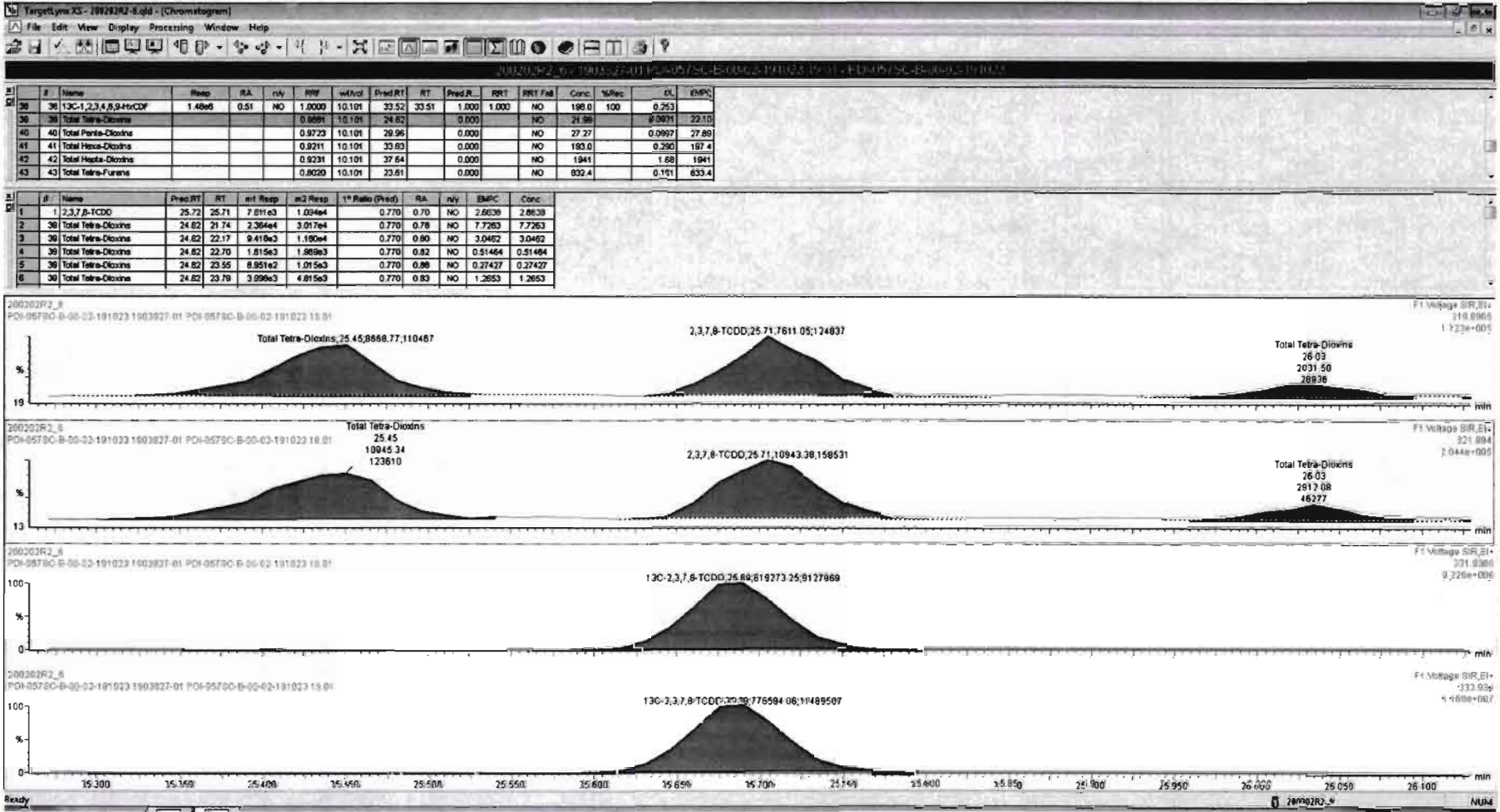


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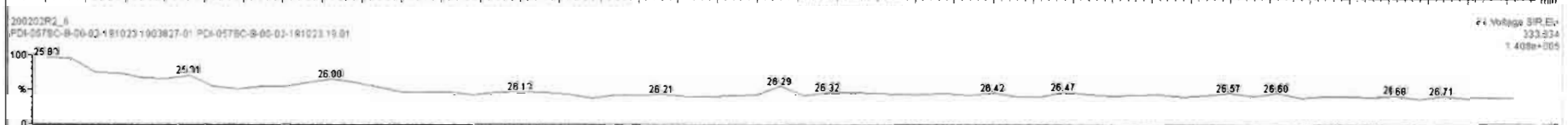
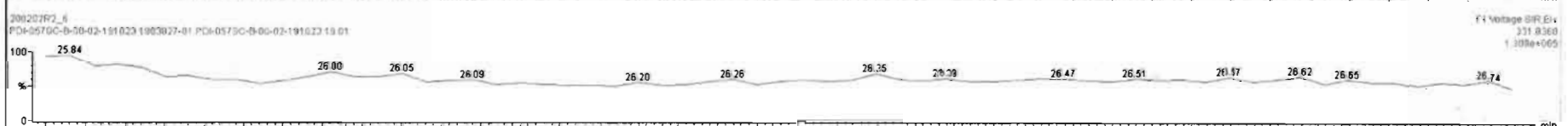
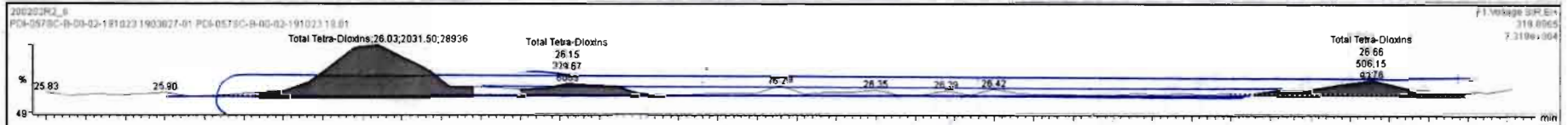


TargetLynx.XS - 200202R2-6.qld - [Chromatogram]
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C:\Program Files\Agilent\ChemStation\Bin\TargetLynx.XS - 200202R2-6.qld - [Chromatogram]

#	Name	Resp	RA	n/y	RRF	wt/Av	Pred RT	RT	Pred R	RRT	RRT Tol	Conc.	%Acc	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	1.46e6	0.51	NO	1.0000	10.101	33.52	33.51	1.000	1.000	NO	198.0	100	0.253	
39	Total Tetra-Dioxins				0.9891	18.101	24.62		0.000		NO	21.88		0.0031	22.10
40	Total Penta-Dioxins				0.9723	10.101	26.06		0.000		NO	27.27		0.0097	27.60
41	Total Hexa-Dioxins				0.9211	10.101	33.63		0.000		NO	193.0		0.290	197.4
42	Total Hepta-Dioxins				0.9231	10.101	37.64		0.000		NO	1941		1.88	1941
43	Total Tetra-Furans				0.8020	10.101	23.61		0.000		NO	832.4		0.161	833.4

#	Name	Pred RT	RT	wt Ratio	wt Ratio	1* Ratio (P=1)	RA	n/y	EMPC	Conc.
11	Total Tetra-Dioxins	24.62	25.18	3.459e2	5.649e2	0.770	0.61	YES	0.11447	0.00000
12	Total Tetra-Dioxins	24.62	25.45	6.889e3	1.055e4	0.770	0.79	NO	2.8159	2.8159
13	1,2,3,8-TCDD	25.72	25.71	7.511e3	1.094e4	0.770	0.70	NO	2.8636	2.8636
14	Total Tetra-Dioxins	24.62	26.03	2.031e3	2.912e3	0.770	0.70	NO	0.70973	0.70973
15	Total Tetra-Dioxins	24.62	26.15	3.297e2	4.294e2	0.770	0.77	NO	0.10883	0.10883
16	Total Tetra-Dioxins	24.62	26.86	5.062e2	6.026e2	0.770	0.84	NO	0.15921	0.15921



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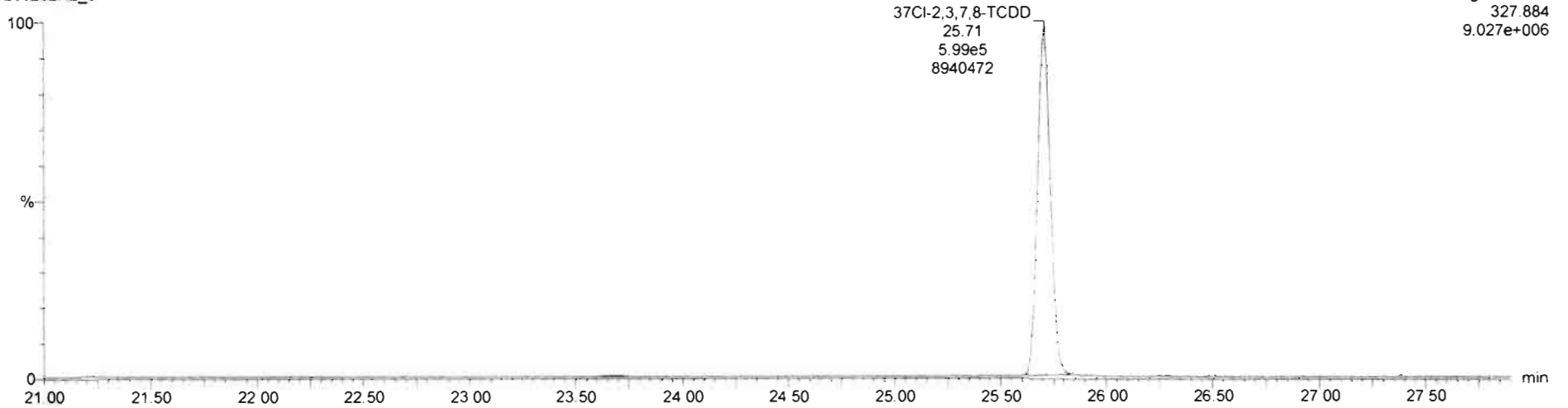
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Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_6, Date: 03-Feb-2020, Time: 02:12:02, ID: 1903827-01 PDI-057SC-B-00-02-191023 19.01, Description: PDI-057SC-B-00-02-191023

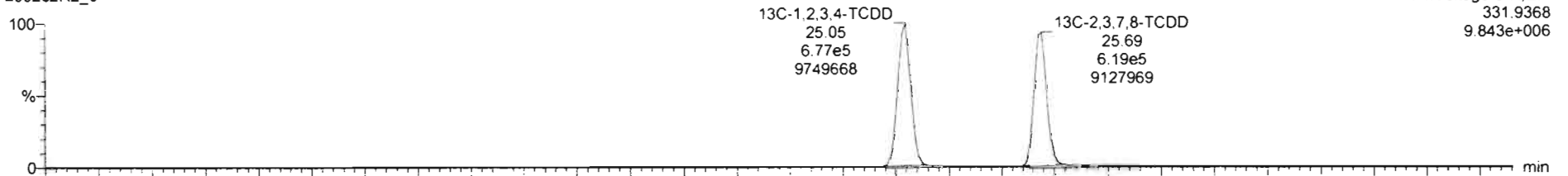
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200202R2_6

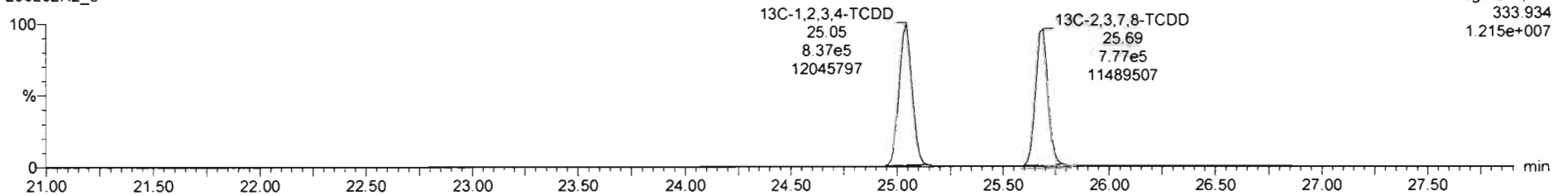


13C-1,2,3,4-TCDD

200202R2_6



200202R2_6

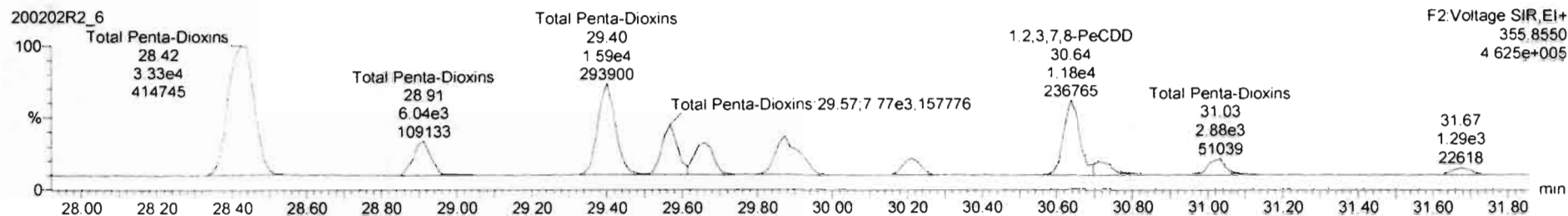
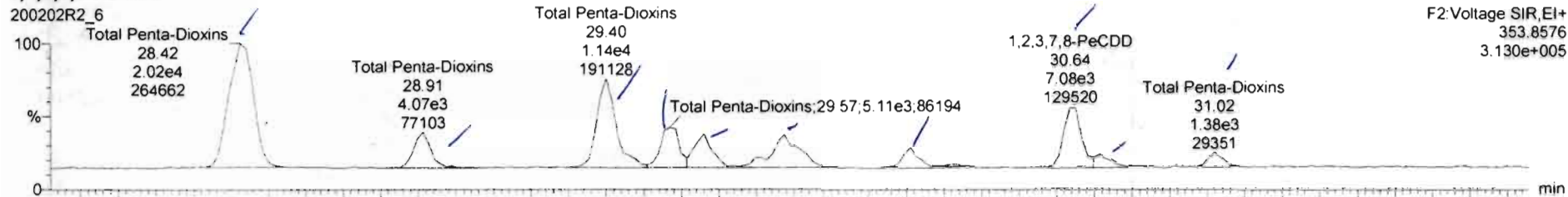


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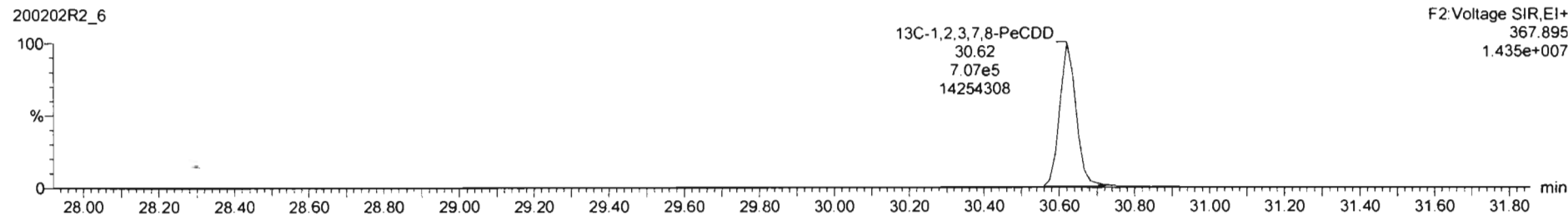
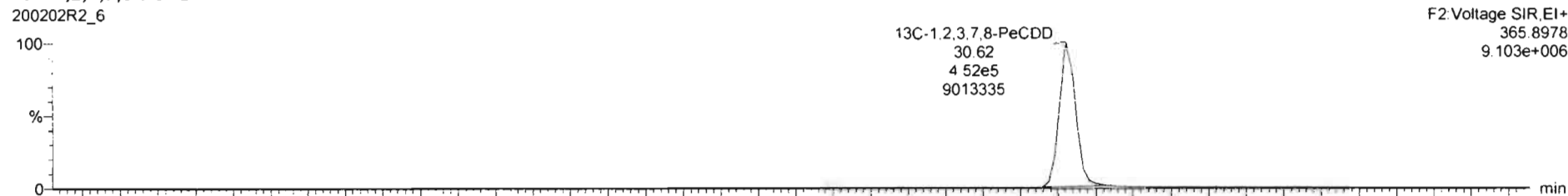
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1,2,3,7,8-PeCDD



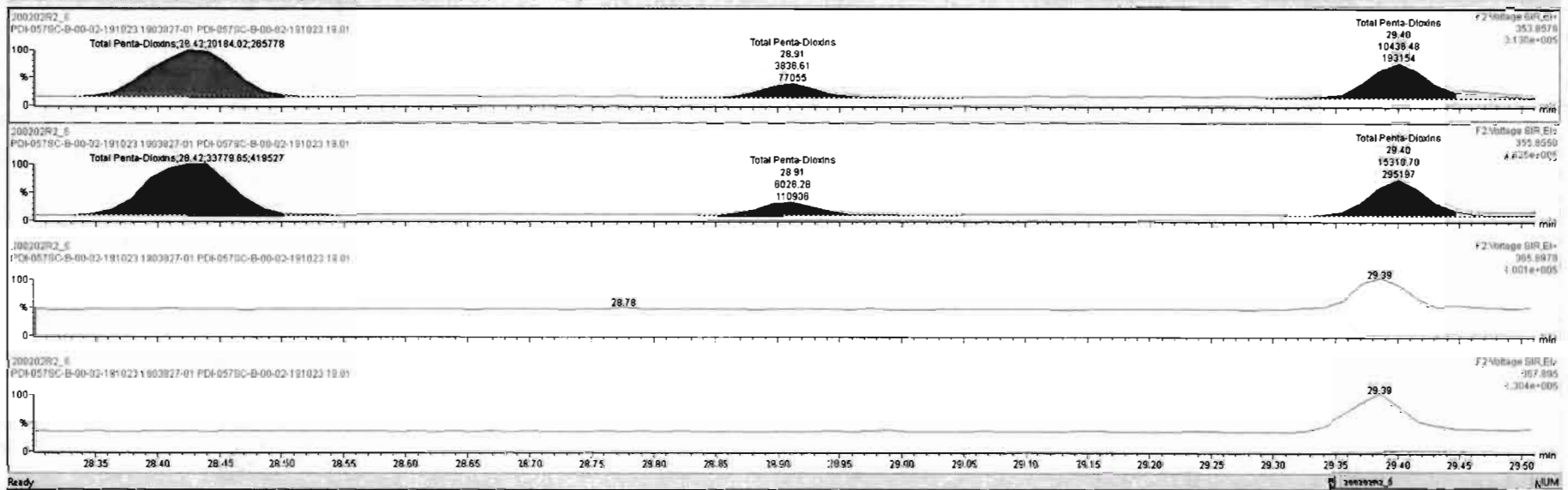
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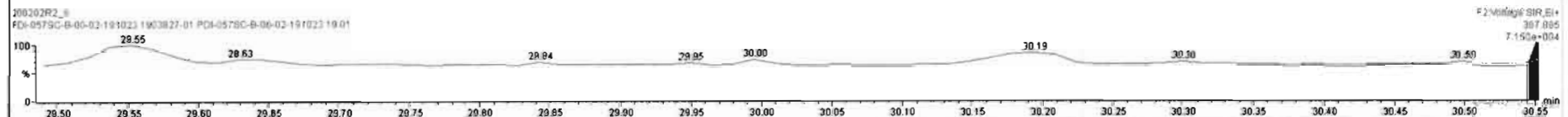
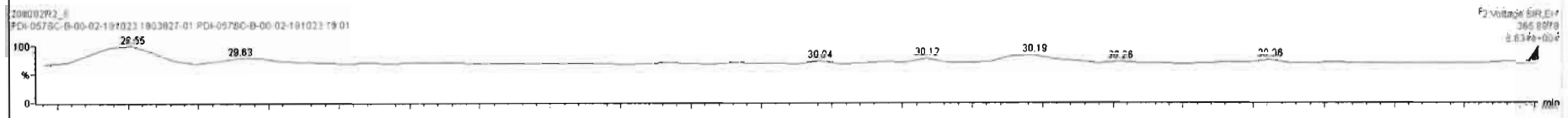
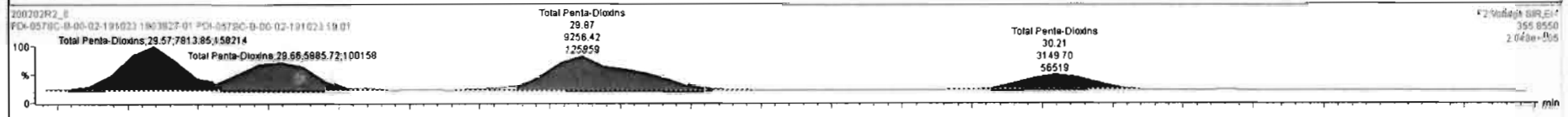
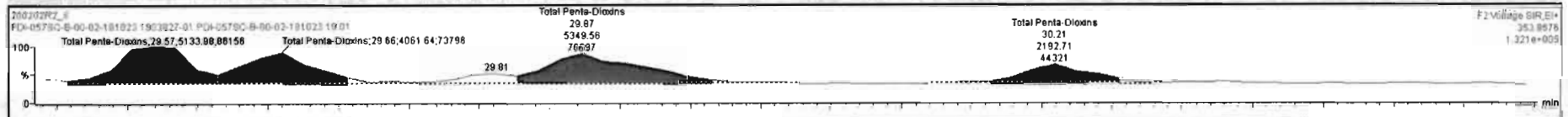
#	Name	Resp	RA	n/y	RRF	ntVal	Pred RT	RT	Pred R	RRT	RRT Fall	Conc	%Rec	LA	EMPC
38	38 1,2,3,4,6,8,9-HxCDF	1.48e6	0.51	NO	1.0000	10.101	33.52	33.51	1.000	1.000	NO	198.0	100	0.253	
39	39 Total Tetra-Dioxins				0.5981	10.101	24.62		0.000		NO	21.88		0.0831	21.88
40	40 Total Penta-Dioxins				0.9723	10.101	29.36		0.000		NO	27.88		0.0817	27.88
41	41 Total Hexa-Dioxins				0.9211	10.101	33.63		0.000		NO	193.0		0.290	197.4
42	42 Total Hepta-Dioxins				0.8221	10.101	37.64		0.000		NO	1941		1.68	1941
43	43 Total Tetra-Furans				0.8020	10.101	23.61		0.000		NO	832.4		0.161	833.4

#	Name	Pred RT	RT	nt Resp	nt2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	40 Total Penta-Dioxins	29.96	28.42	2.018e4	3.378e4	0.630	0.60	NG	5.4382	2.4382
2	40 Total Penta-Dioxins	29.96	28.91	3.837e3	6.029e3	0.630	0.64	NO	1.7254	1.7254
3	40 Total Penta-Dioxins	29.96	29.40	1.044e4	1.531e4	0.630	0.68	NO	4.5032	4.5032
4	40 Total Penta-Dioxins	29.96	29.57	5.134e3	7.814e3	0.630	0.66	NO	2.2646	2.2646
5	40 Total Penta-Dioxins	29.96	28.86	4.062e3	5.888e3	0.630	0.69	NO	1.7398	1.7398
6	40 Total Penta-Dioxins	29.96	29.87	5.350e3	9.256e3	0.630	0.58	NO	2.5546	2.5546
7	40 Total Penta-Dioxins	29.96	30.21	2.183e3	3.150e3	0.630	0.70	NO	0.83438	0.83438
8	2 1,2,3,7,8-PeCDD	30.64	30.64	8.674e3	1.123e4	0.630	0.69	NO	3.1319	3.1319
9	40 Total Penta-Dioxins	29.96	30.71	1.348e3	2.309e3	0.630	0.58	NO	0.83826	0.83826
10	40 Total Penta-Dioxins	29.96	31.02	1.584e3	2.726e3	0.630	0.58	NO	0.75365	0.75365



#	Name	Resp	RA	n/y	RRT	wtAval	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	Unit	DL	EMPC
38	13C-1,2,2,4,6,8-HxCDF	1.48e6	0.51	NO	1.0000	10.101	33.52	33.51	1.000	1.000	NO	198.0	100	0.253	
39	Total Tetra-Dioxins				0.9891	10.101	24.62		0.000		NO	21.86		0.0831	21.98
40	Total Penta-Dioxins				0.9723	10.101	28.98		0.000		NO	27.58		0.0987	27.58
41	Total Hexa-Dioxins				0.9211	10.101	33.63		0.000		NO	193.0		0.290	197.4
42	Total Hepta-Dioxins				0.9221	10.101	37.64		0.000		NO	1941		1.88	1941
43	Total Tetra-Furans				0.8020	10.101	23.81		0.000		NO	832.4		0.161	833.4

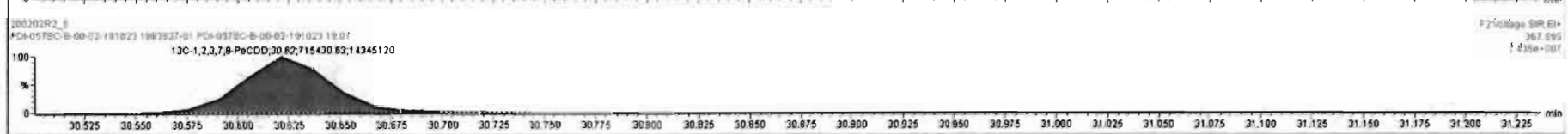
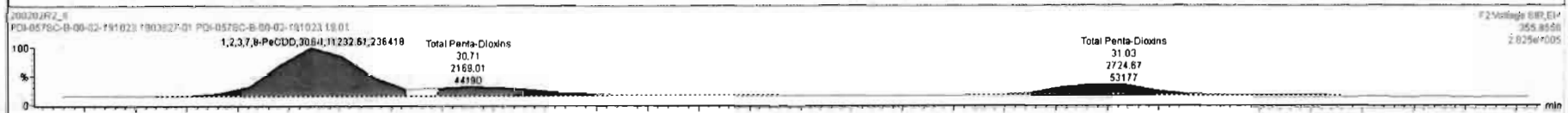
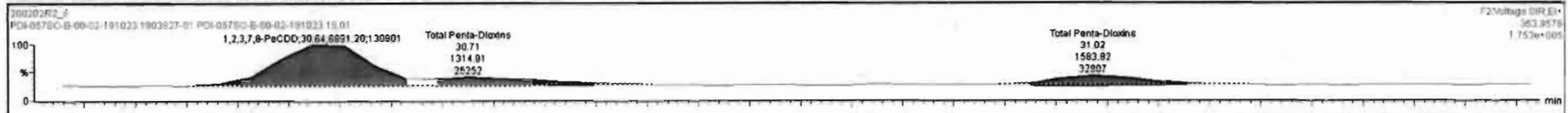
#	Name	Pred RT	RT	wt Resp	wt2 Resp	1st Ratio (Pred)	RA	n/y	EMPC	Conc
1	Total Penta-Dioxins	29.96	29.42	2.019e4	3.370e4	0.630	0.60	NO	9.4362	9.4362
2	Total Penta-Dioxins	29.96	29.91	3.837e3	6.028e3	0.630	0.64	NO	1.7254	1.7254
3	Total Penta-Dioxins	29.96	29.40	1.044e4	1.531e4	0.630	0.68	NO	4.5032	4.5032
4	Total Penta-Dioxins	29.96	29.57	5.134e3	7.814e3	0.630	0.68	NO	2.2648	2.2648
5	Total Penta-Dioxins	29.96	29.88	4.062e3	5.988e3	0.630	0.69	NO	1.7398	1.7398
6	Total Penta-Dioxins	29.96	29.87	5.350e3	8.258e3	0.630	0.58	NO	2.5548	2.5548
7	Total Penta-Dioxins	29.96	30.21	2.193e3	3.150e3	0.630	0.70	NO	0.93438	0.93438
8	1,2,3,7,8-PeCDD	30.84	30.84	6.874e3	1.123e4	0.630	0.58	NO	3.1318	3.1318
9	Total Penta-Dioxins	29.96	30.71	1.346e3	2.308e3	0.630	0.58	NO	0.63826	0.63826
10	Total Penta-Dioxins	29.96	31.02	1.584e3	2.725e3	0.630	0.58	NO	0.75355	0.75355



TargetLynx.XS - 29626292-6.qtd - [Chromatogram]
 File Edit View Display Processing Window Help
 200202R2_6_1903827_01.PDI-0575C-B-00-02-191023-18.01 - F1-0575C-B-00-02-191023

#	Name	Resp	RA	rv	RT	rt/rt	Pred.RT	RT	Pred.#	RTI	RTI Pct	Conc	%Rec	DL	BMP
38	13C-1,2,3,4,8,9-HxCDF	1.40e6	0.51	NO	1.0000	10.101	33.52	33.51	1.000	1.000	NO	198.0	100	0.253	
39	Total Tetr-Dioxins				0.9981	10.101	24.52		0.000		NO	21.86		0.0031	21.99
40	Total Penta-Dioxins				0.9723	10.101	25.96		0.000		NO	27.79		0.0097	27.79
41	Total Hexa-Dioxins				0.9211	10.101	33.63		0.000		NO	183.0		0.290	187.4
42	Total Hepta-Dioxins				0.8231	10.101	37.64		0.000		NO	1941		1.88	1941
43	Total Tetra-Furans				0.8020	10.101	23.81		0.000		NO	832.4		0.181	833.4

#	Name	Pred.RT	RT	rt Resp	rt2 Resp	1*Ratio (Pred)	RA	rv	BMP	Conc
1	Total Penta-Dioxins	29.98	29.42	2.018e4	3.351e4	0.630	0.60	NO	9.3907	9.3907
2	Total Penta-Dioxins	29.98	29.91	3.837e3	6.056e3	0.630	0.63	NO	1.7301	1.7301
3	Total Penta-Dioxins	29.98	29.40	1.044e4	1.540e4	0.630	0.68	NO	4.5180	4.5180
4	Total Penta-Dioxins	29.98	29.57	5.291e3	8.003e3	0.630	0.68	NO	2.3250	2.3250
5	Total Penta-Dioxins	29.98	29.86	4.114e3	6.306e3	0.630	0.65	NO	1.8224	1.8224
6	Total Penta-Dioxins	29.98	29.87	5.486e3	8.136e3	0.630	0.60	NO	2.5542	2.5542
7	Total Penta-Dioxins	29.98	30.21	2.137e3	3.086e3	0.630	0.69	NO	0.91343	0.91343
8	1,2,3,7,8-PeCDD	30.64	30.64	8.891e3	1.123e4	0.630	0.61	NO	3.1898	3.1898
9	Total Penta-Dioxins	29.98	30.71	1.315e3	2.169e3	0.630	0.81	NO	0.60933	0.60933
10	Total Penta-Dioxins	29.98	31.02	1.584e3	2.726e3	0.630	0.98	NO	0.75365	0.75365



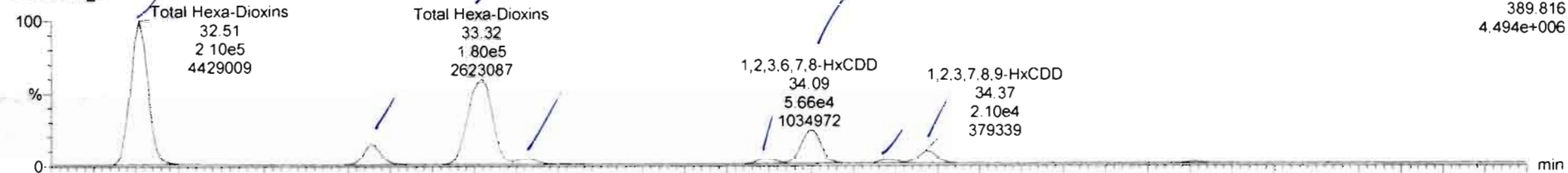
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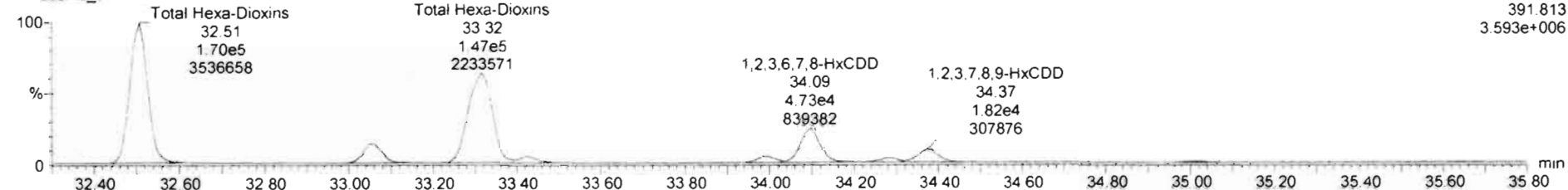
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1,2,3,4,7,8-HxCDD

200202R2_6

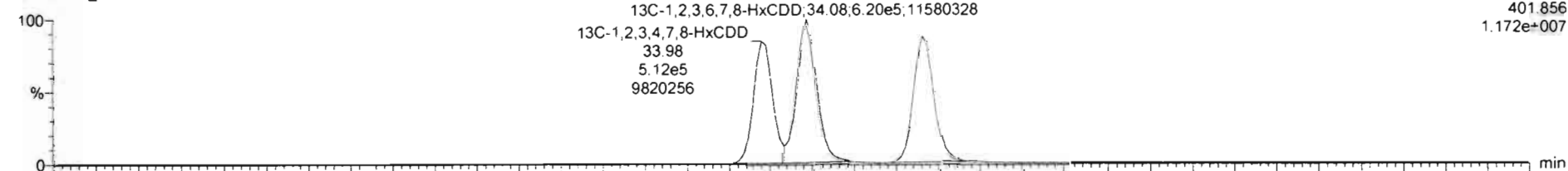


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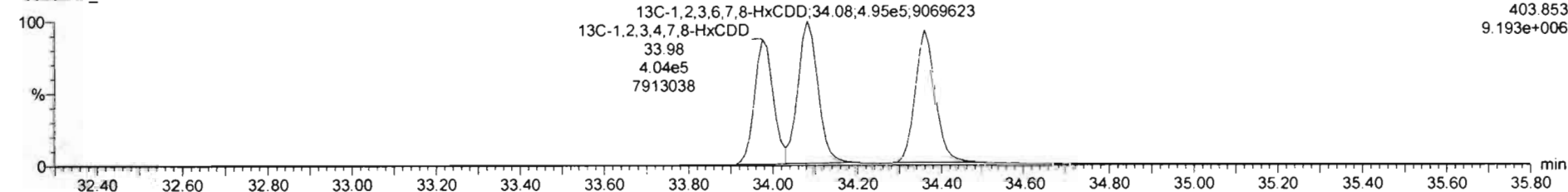


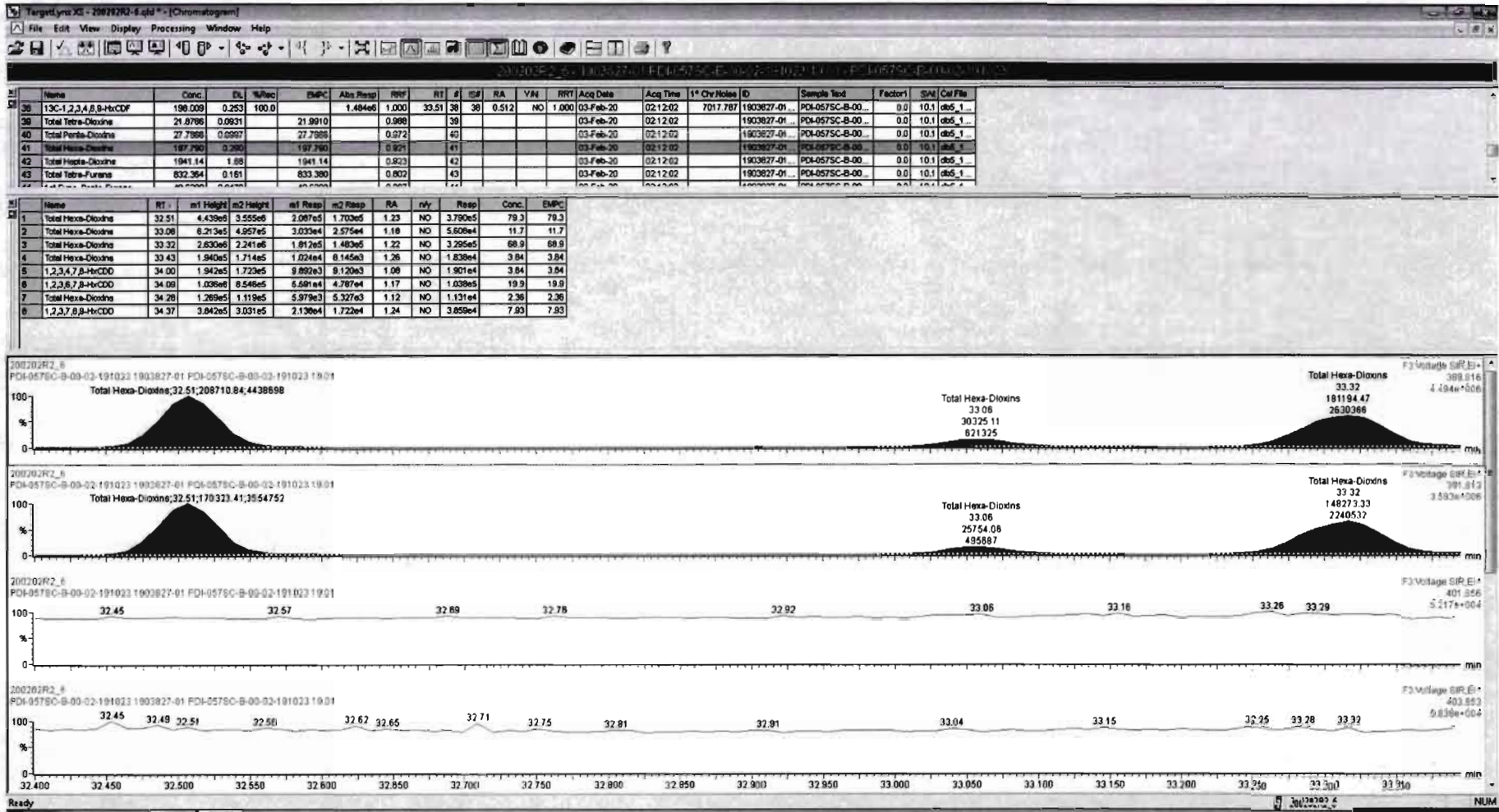
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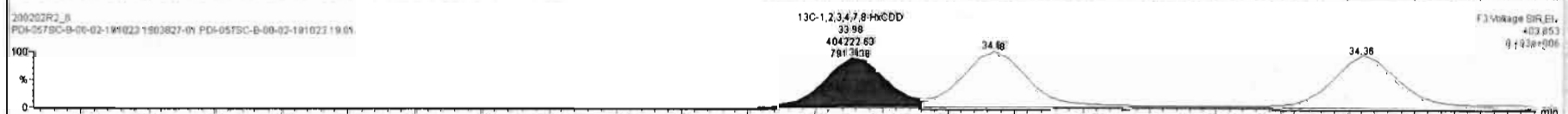
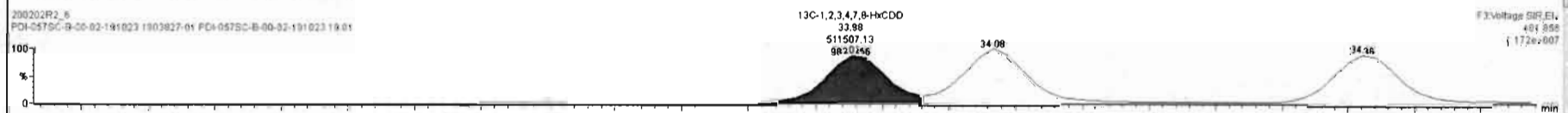
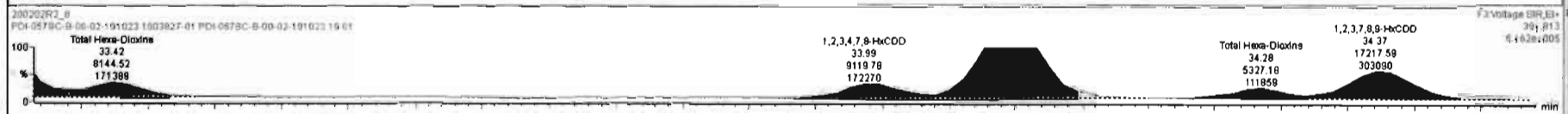
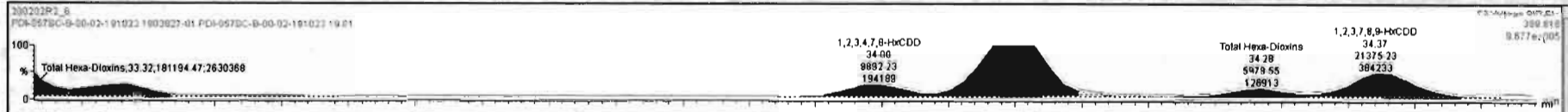
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Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	ISF	RA	Y/N	RRT	AcqDate	AcqTime	1% Cvs Noise	ID	Sample Text	Factor1	S/N	Cal File
13C-1,2,3,4,6,8-HxCDD	198.009	0.253	100.0		1.484e6	1.000	33.51	38		0.512	NO	1.000	03-Feb-20	02:12:02	7017.787	1903827-01...	PO4-057SC-B-00...	0.0	10.1	db5_1...
Total Tetra-Dioxins	21.8766	0.0931		21.9910	0.988		39						03-Feb-20	02:12:02		1903827-01...	PO4-057SC-B-00...	0.0	10.1	db5_1...
Total Penta-Dioxins	27.7866	0.0997		27.7866	0.972		40						03-Feb-20	02:12:02		1903827-01...	PO4-057SC-B-00...	0.0	10.1	db5_1...
Total Hexa-Dioxins	197.790	0.290		197.790	0.921		41						03-Feb-20	02:12:02		1903827-01...	PO4-057SC-B-00...	0.0	10.1	db5_1...
Total Hepta-Dioxins	1941.14	1.86		1941.14	0.923		42						03-Feb-20	02:12:02		1903827-01...	PO4-057SC-B-00...	0.0	10.1	db5_1...
Total Tetra-Furans	832.364	0.181		833.360	0.802		43						03-Feb-20	02:12:02		1903827-01...	PO4-057SC-B-00...	0.0	10.1	db5_1...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	nH	Resp	Conc	EMPC
1 Total Hexa-Dioxins	32.51	4.439e6	3.555e6	2.087e5	1.703e5	1.23	NO	3.790e5	79.3	79.3
2 Total Hexa-Dioxins	33.06	6.213e5	4.957e5	3.033e4	2.575e4	1.18	NO	5.808e4	11.7	11.7
3 Total Hexa-Dioxins	33.32	2.630e6	2.241e6	1.812e5	1.483e5	1.22	NO	3.295e5	68.9	68.9
4 Total Hexa-Dioxins	33.43	1.940e5	1.714e5	1.024e4	8.145e3	1.26	NO	1.838e4	3.94	3.94
5 1,2,3,4,7,8-HxCDD	34.00	1.942e5	1.723e5	8.862e3	8.120e3	1.08	NO	1.901e4	3.84	3.84
6 1,2,3,7,8-HxCDD	34.09	1.028e6	8.548e5	5.591e4	4.787e4	1.17	NO	1.038e5	19.9	19.9
7 Total Hexa-Dioxins	34.28	1.289e5	1.119e5	5.979e3	5.327e3	1.12	NO	1.131e4	2.36	2.36
8 1,2,3,7,8,9-HxCDD	34.37	3.842e5	3.031e5	2.138e4	1.722e4	1.24	NO	3.859e4	7.93	7.93



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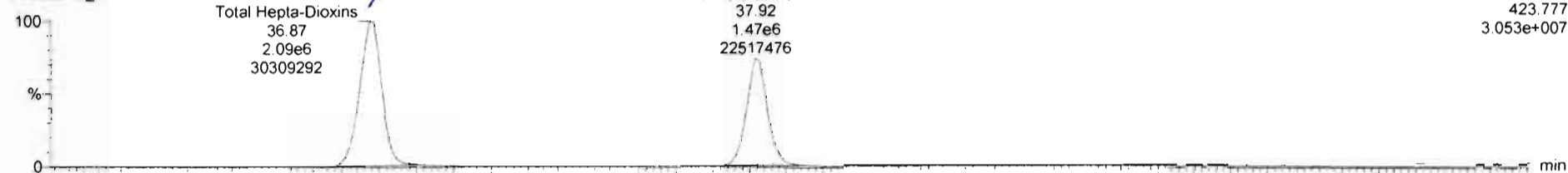
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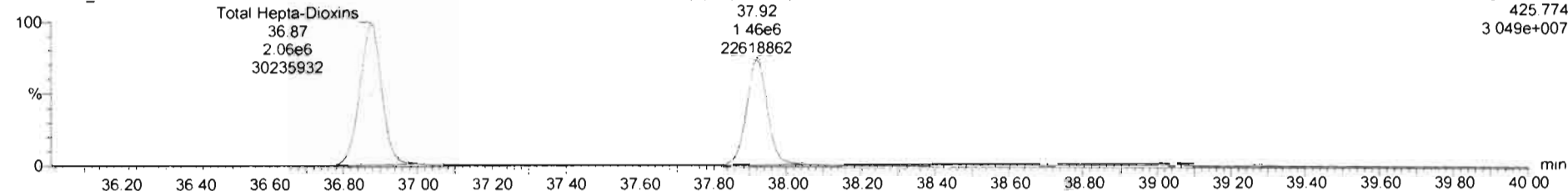
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1,2,3,4,6,7,8-HpCDD

200202R2_6

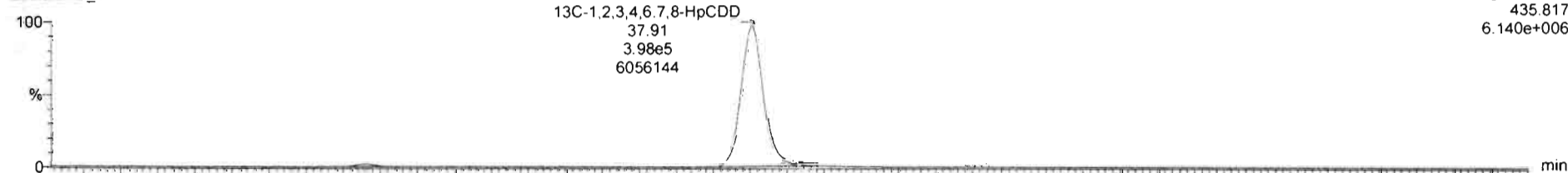


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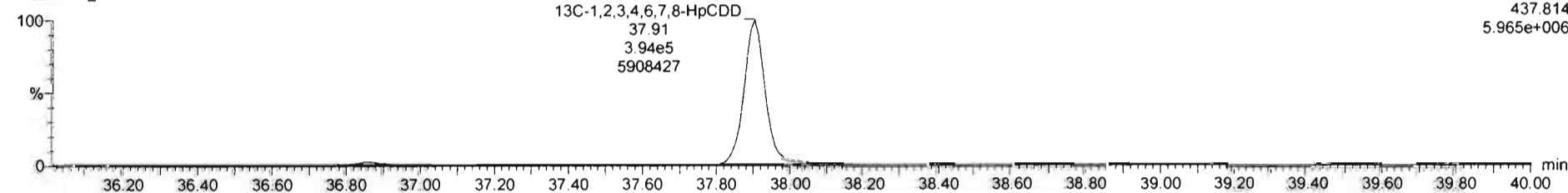


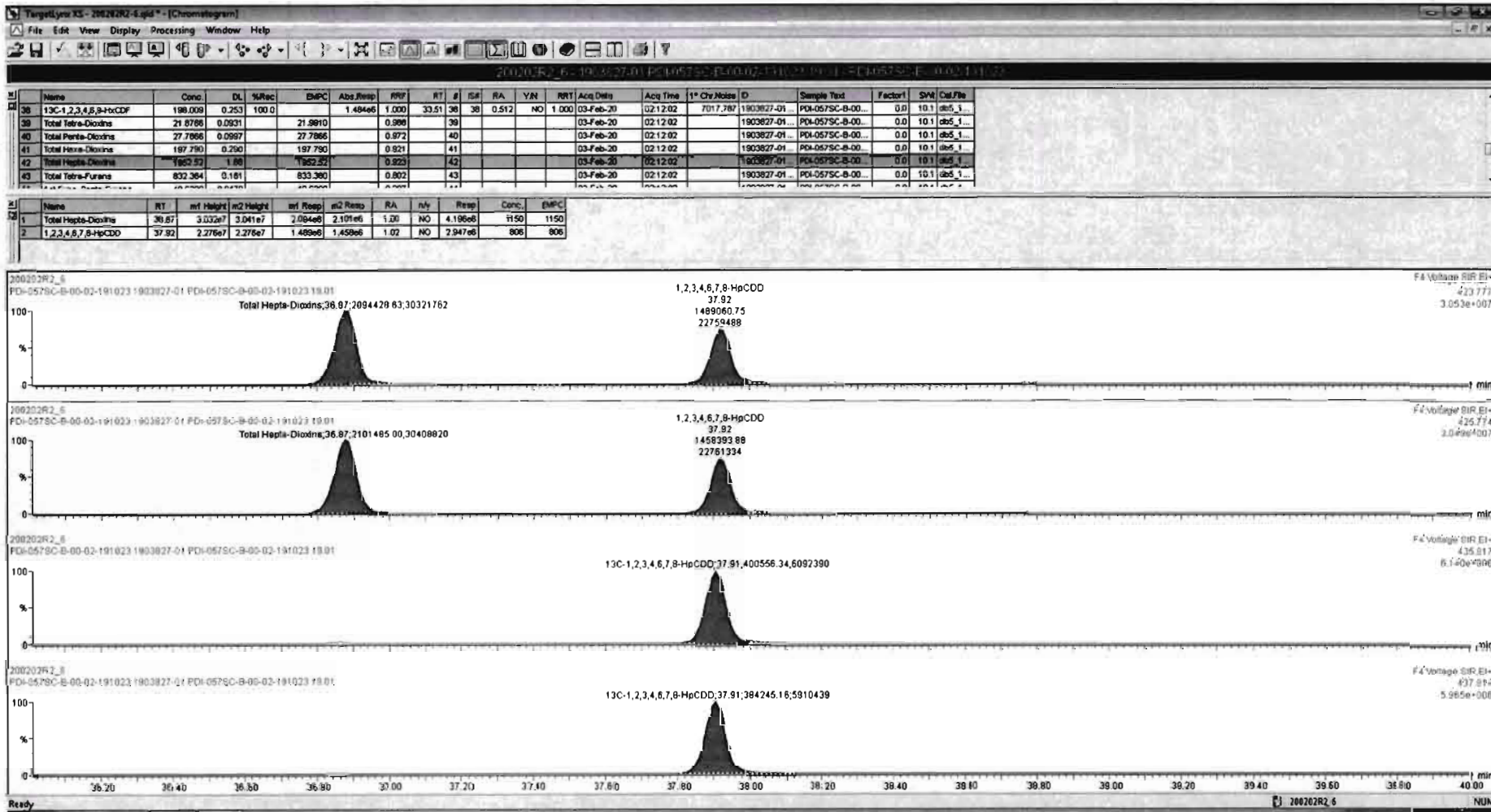
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200202R2_6



200202R2_6



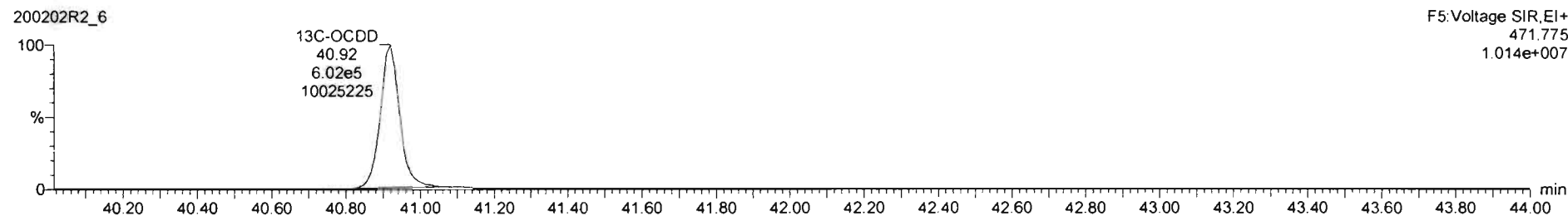
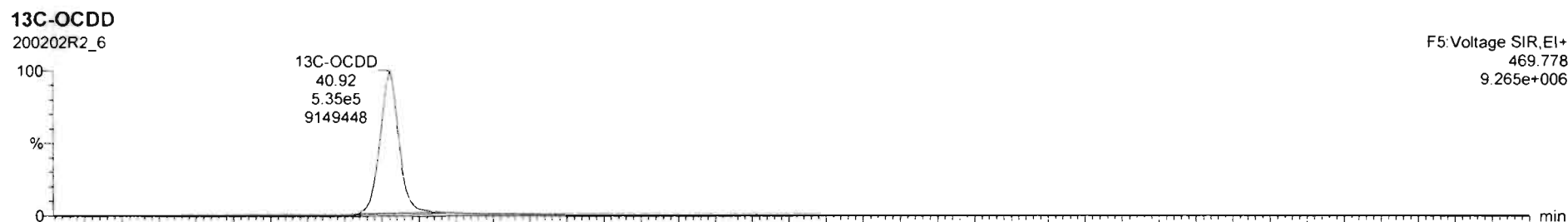
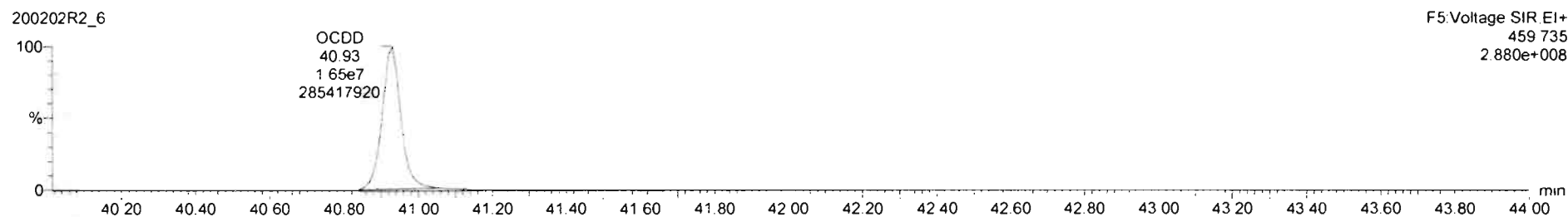
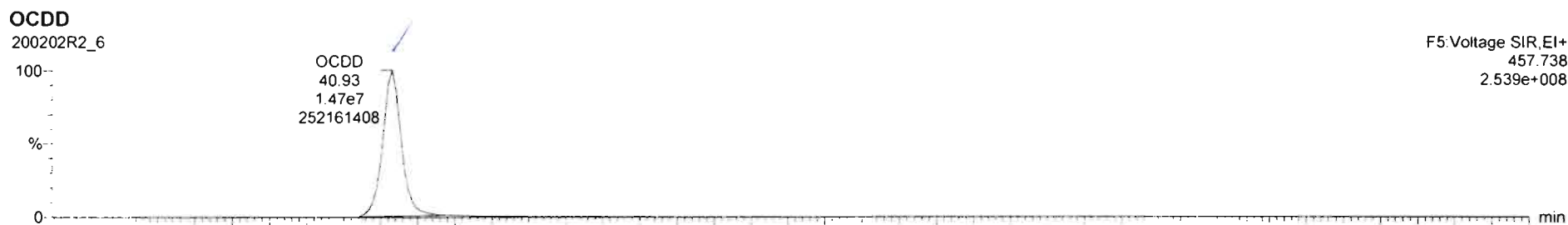


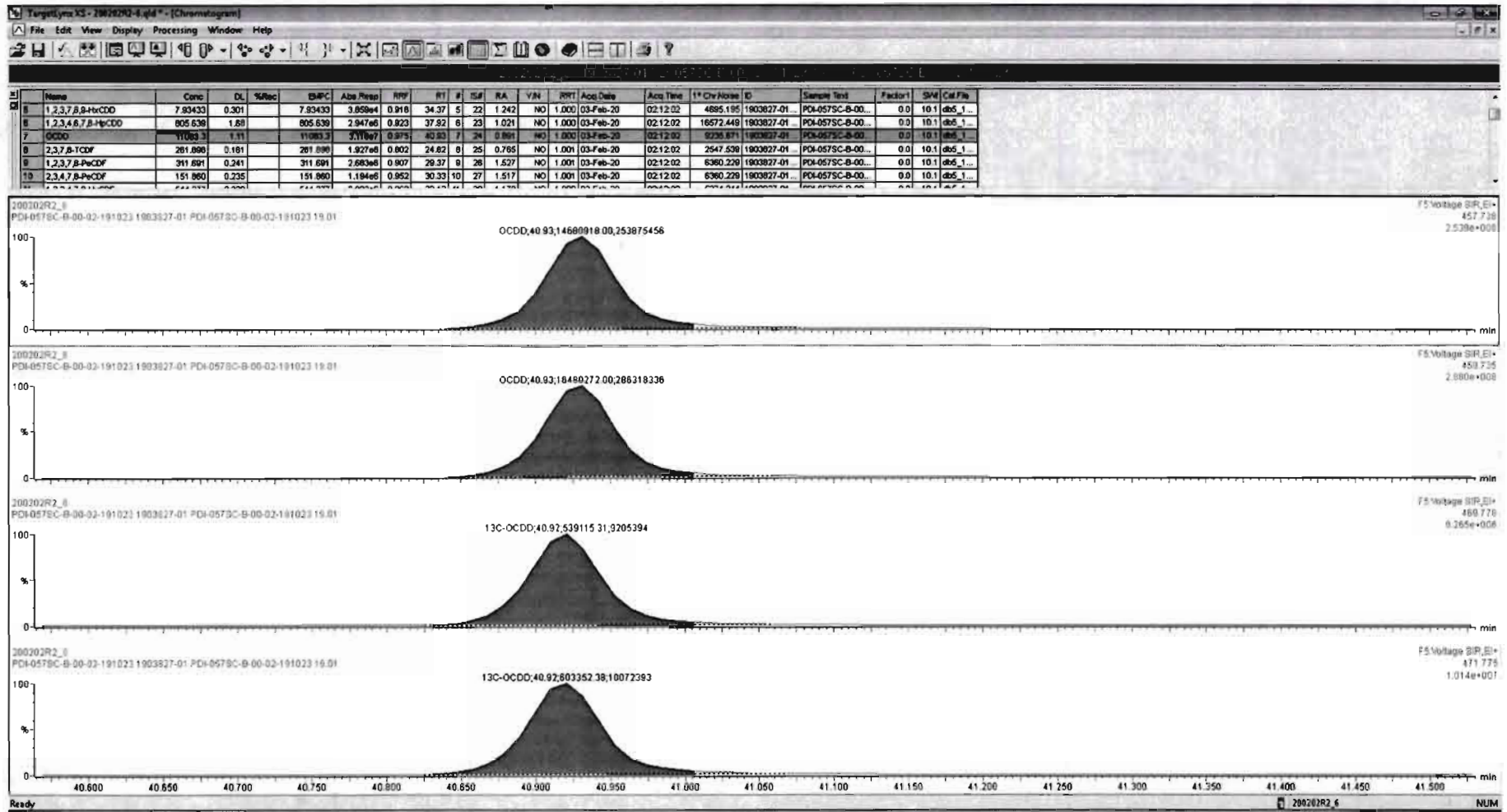
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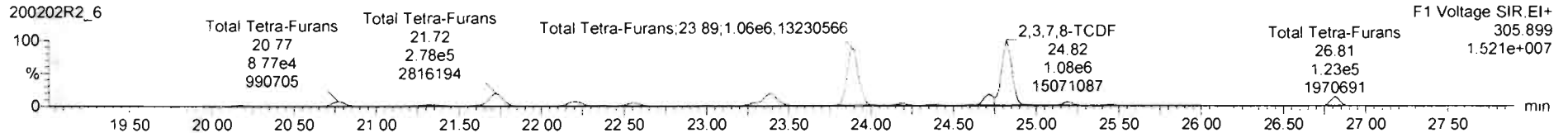
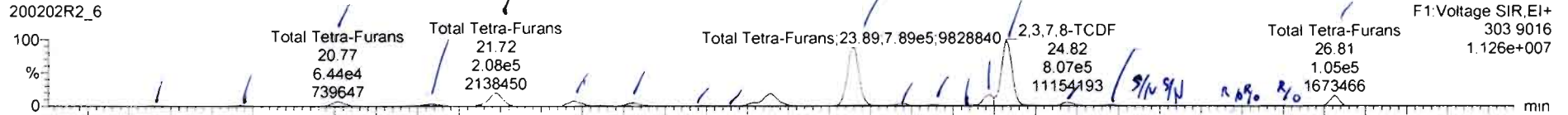


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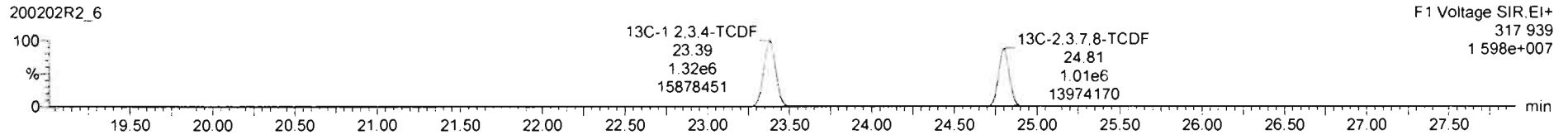
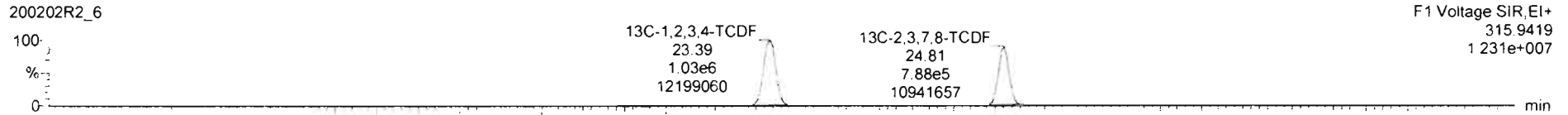
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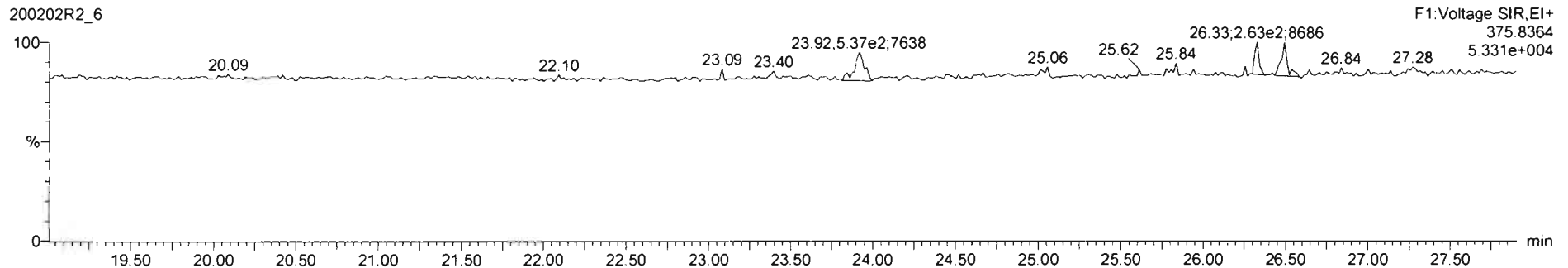
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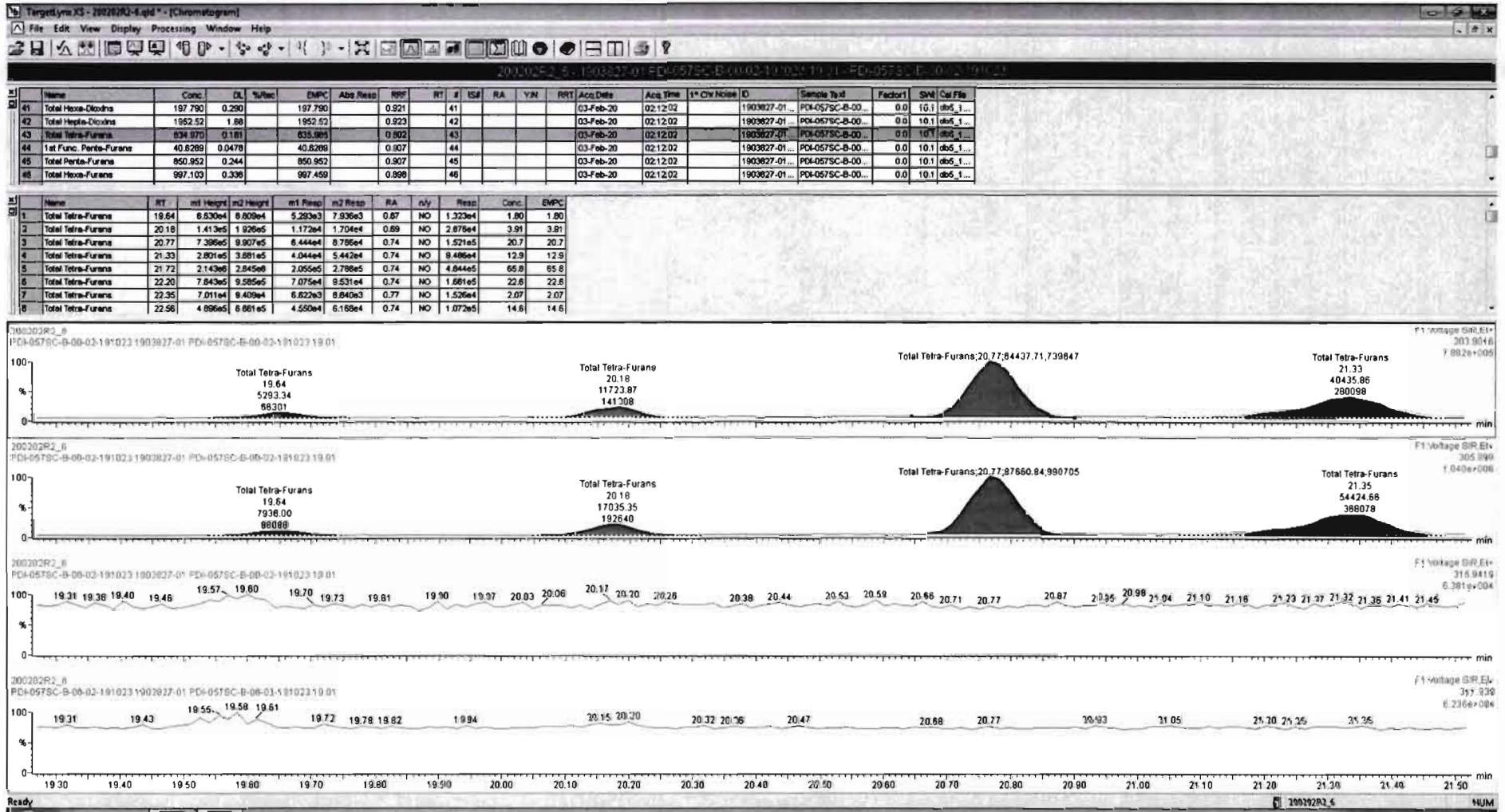


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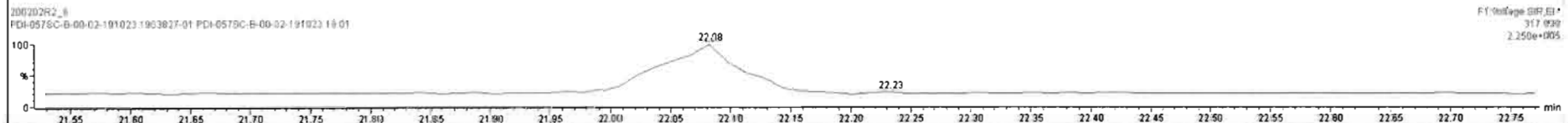
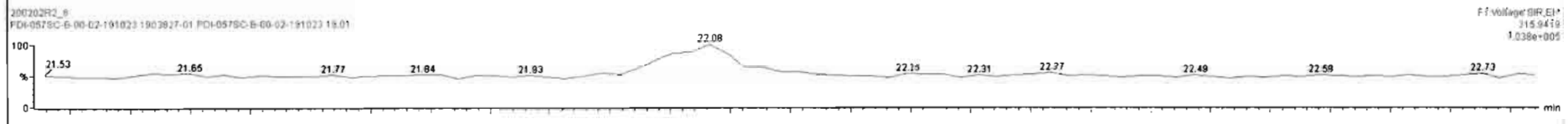
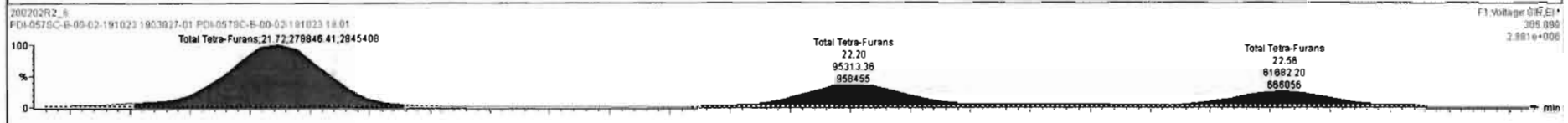
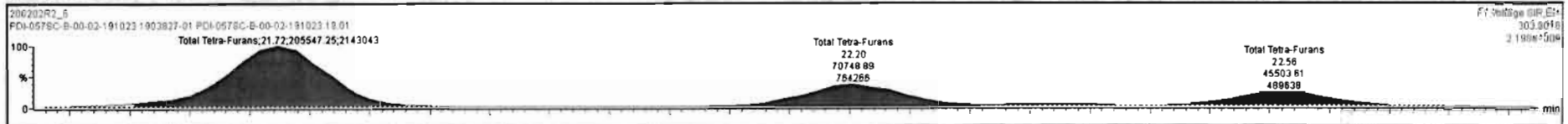
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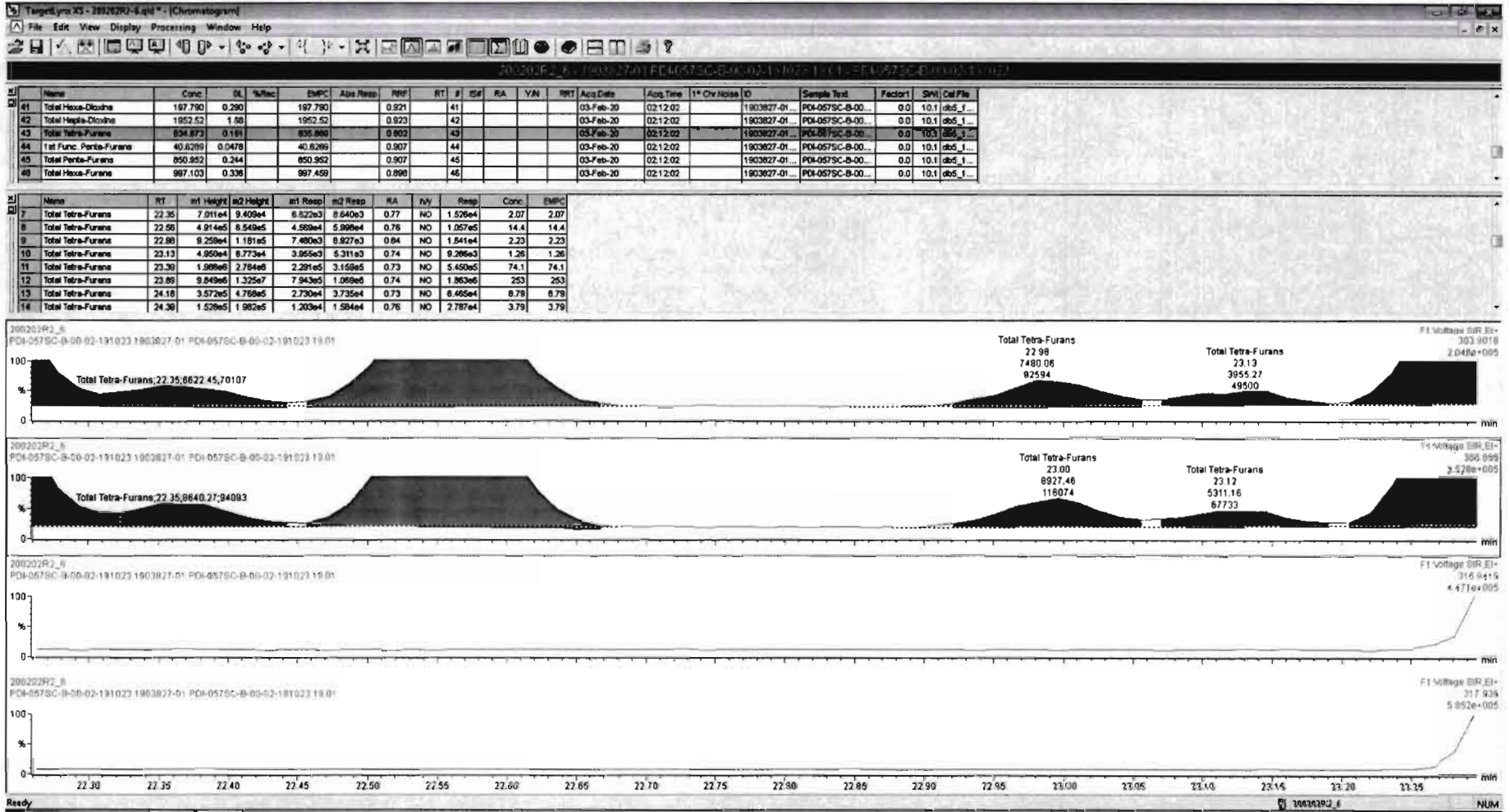


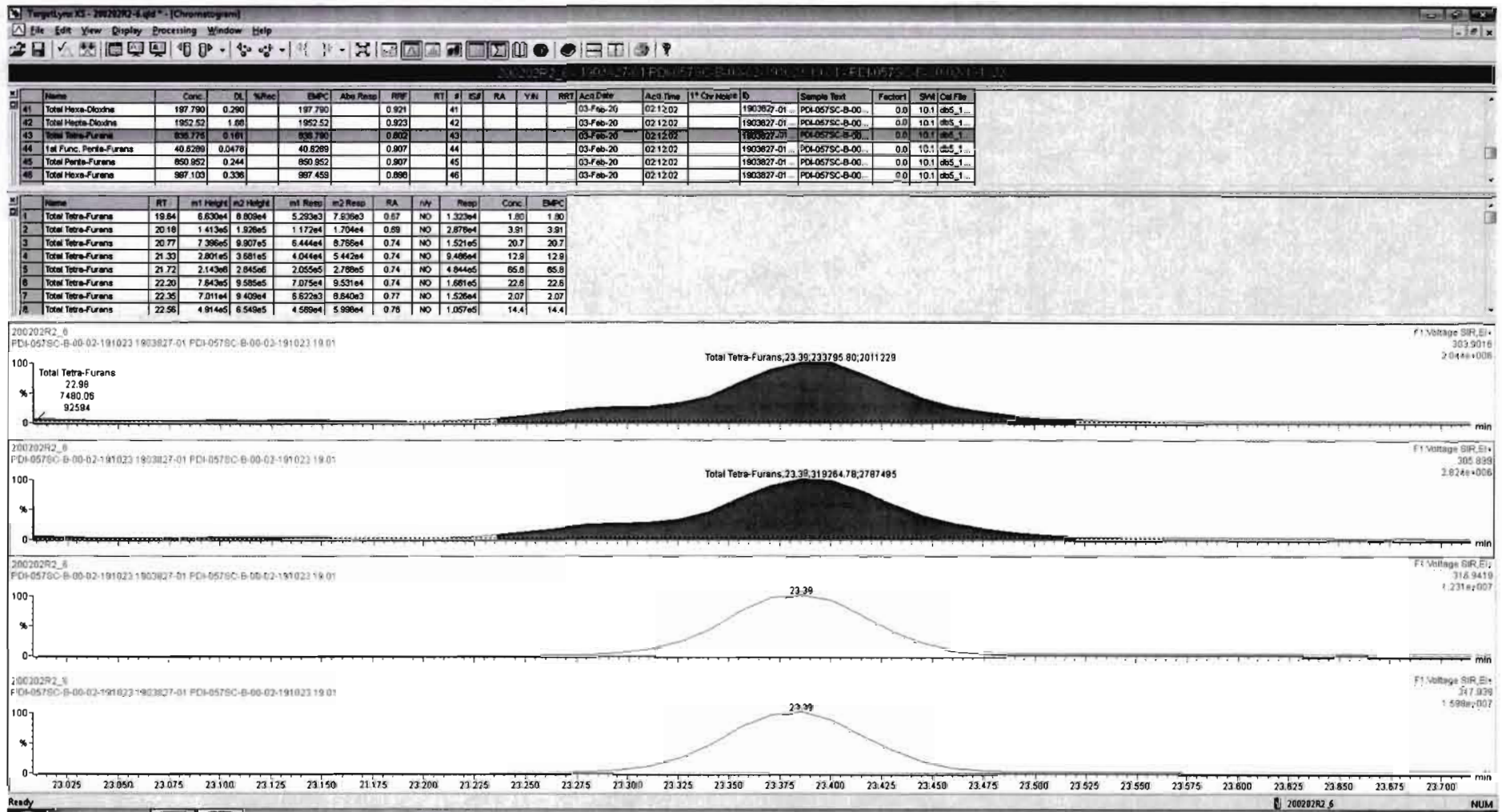


Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	Y/N	RR1	Acq Date	Acq Time	1* Chv Noise	Sample Text	Factor1	SM	Cal File	
41 Total Hexa-Dioxine	197.790	0.290		197.790		0.921	41						03-Feb-20	02:12:02		1903827-01	PDI-057SC-B-00...	0.0	10.1	db5_1...
42 Total Hepta-Dioxine	1952.52	1.69		1952.52		0.923	42						03-Feb-20	02:12:02		1903827-01	PDI-057SC-B-00...	0.0	10.1	db5_1...
43 Total Tetra-Furans	834.970	0.191		835.985		0.802	43						03-Feb-20	02:12:02		1903827-01	PDI-057SC-B-00...	0.0	10.1	db5_1...
44 1st Func. Penta-Furans	40.8289	0.0470		40.6289		0.907	44						03-Feb-20	02:12:02		1903827-01	PDI-057SC-B-00...	0.0	10.1	db5_1...
45 Total Penta-Furans	850.952	0.244		850.952		0.907	45						03-Feb-20	02:12:02		1903827-01	PDI-057SC-B-00...	0.0	10.1	db5_1...
46 Total Hexa-Furans	997.103	0.338		997.459		0.899	46						03-Feb-20	02:12:02		1903827-01	PDI-057SC-B-00...	0.0	10.1	db5_1...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ivly	Resp	Conc	EMPC
1 Total Tetra-Furans	19.84	8.620e4	8.809e4	5.293e3	7.336e3	0.87	NO	1.322e4	1.80	1.80
2 Total Tetra-Furans	20.18	1.413e5	1.928e5	1.172e4	1.704e4	0.89	NO	2.879e4	3.91	3.91
3 Total Tetra-Furans	20.77	7.398e5	9.807e5	6.444e4	8.786e4	0.74	NO	1.521e5	20.7	20.7
4 Total Tetra-Furans	21.33	2.801e5	3.881e5	4.044e4	5.442e4	0.74	NO	9.496e4	12.9	12.9
5 Total Tetra-Furans	21.72	2.143e6	2.845e6	2.055e5	2.788e5	0.74	NO	4.844e5	65.8	65.8
6 Total Tetra-Furans	22.20	7.843e5	9.585e5	7.075e4	9.531e4	0.74	NO	1.861e5	22.6	22.6
7 Total Tetra-Furans	22.35	7.011e4	9.408e4	6.622e3	8.840e3	0.77	NO	1.526e4	2.07	2.07
8 Total Tetra-Furans	22.58	4.898e5	6.861e5	4.550e4	6.188e4	0.74	NO	1.072e5	14.6	14.6



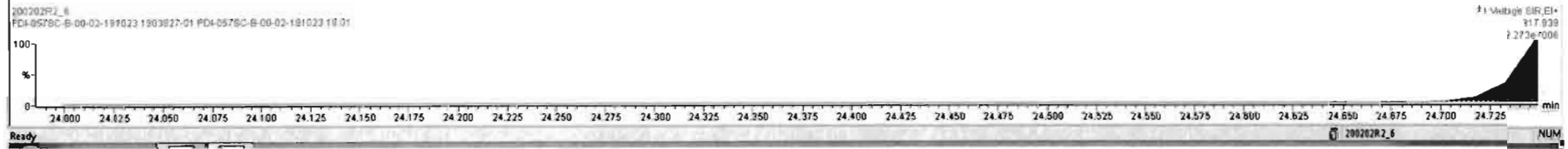
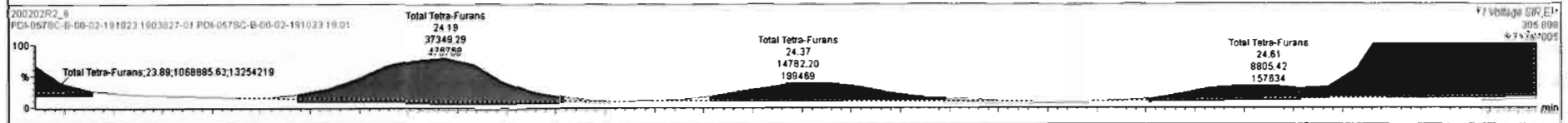
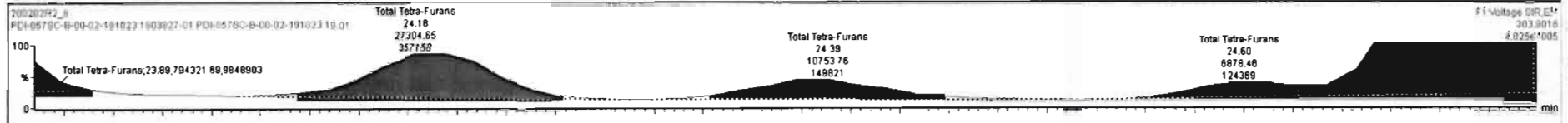




TargetLynx.XS - 200202R2-4.d - [Chromatogram]
 File Edit View Display Processing Window Help

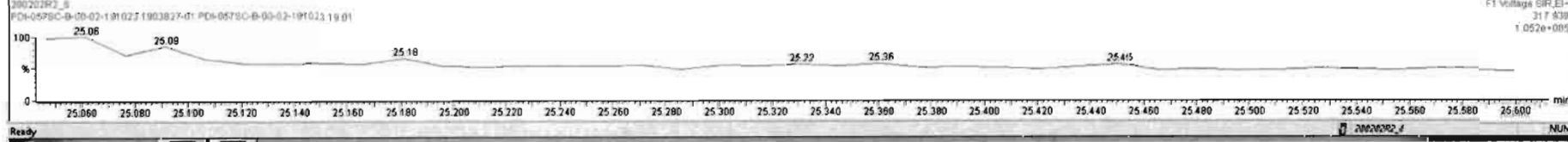
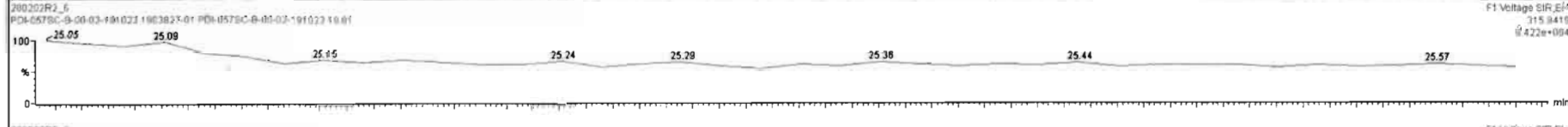
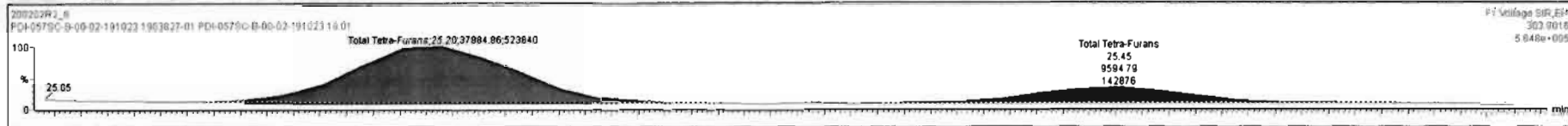
#	Name	Conc.	DL	%Rec	EMPC	Abs Resp	RFP	RT #	ISF	RA	YAI	RRT	Acq Date	Acq Time	1* Chr Name	ID	Sample Text	Factor1	S/N	Cal File
41	Total Hexa-Chlorine	197.790	0.290		197.790		0.921	41					03-Feb-20	02:12:02		1903827-01...	PDI-0575C-B-00...	0.0	10.1	db5_1...
42	Total Hepta-Chlorine	1952.52	1.69		1952.52		0.923	42					03-Feb-20	02:12:02		1903827-01...	PDI-0575C-B-00...	0.0	10.1	db5_1...
43	Total Tetra-Furans	830.372	0.191		831.377		0.892	43					03-Feb-20	02:12:02		1903827-01...	PDI-0575C-B-00...	0.0	10.1	db5_1...
44	1st Func. Penta-Furans	40.6299	0.0478		40.6299		0.907	44					03-Feb-20	02:12:02		1903827-01...	PDI-0575C-B-00...	0.0	10.1	db5_1...
45	Total Penta-Furans	850.952	0.244		850.952		0.907	45					03-Feb-20	02:12:02		1903827-01...	PDI-0575C-B-00...	0.0	10.1	db5_1...
46	Total Hexa-Furans	997.103	0.336		997.459		0.896	46					03-Feb-20	02:12:02		1903827-01...	PDI-0575C-B-00...	0.0	10.1	db5_1...

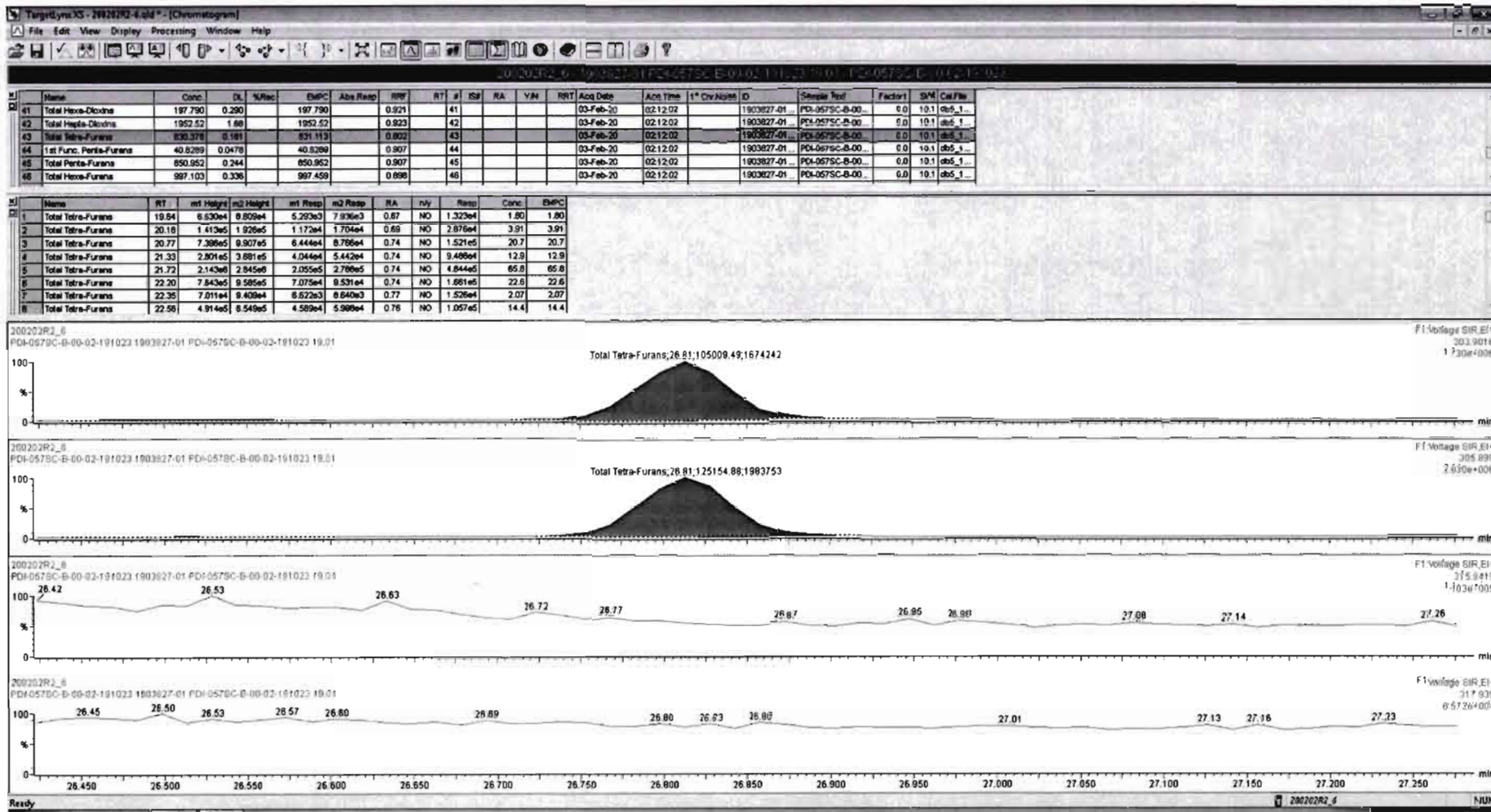
#	Name	RT	mt Height	mt2 Height	mt Resp	mt2 Resp	RA	ntv	Resp	Conc	EMPC
1	Total Tetra-Furans	19.84	6.630e4	6.809e4	5.293e3	7.936e3	0.67	NO	1.323e4	1.80	1.80
2	Total Tetra-Furans	20.18	1.413e5	1.826e5	1.172e4	1.704e4	0.69	NO	2.676e4	3.91	3.91
3	Total Tetra-Furans	20.77	7.396e5	9.907e5	8.444e4	8.786e4	0.74	NO	1.521e5	20.7	20.7
4	Total Tetra-Furans	21.33	2.801e5	3.681e5	4.044e4	5.442e4	0.74	NO	9.406e4	12.9	12.9
5	Total Tetra-Furans	21.72	2.143e5	2.845e5	2.055e5	2.788e5	0.74	NO	4.844e5	65.8	65.8
6	Total Tetra-Furans	22.20	7.843e5	9.595e5	7.075e4	8.531e4	0.74	NO	1.661e5	22.6	22.6
7	Total Tetra-Furans	22.35	7.011e4	9.409e4	6.822e3	8.640e3	0.77	NO	1.526e4	2.07	2.07
8	Total Tetra-Furans	22.58	4.914e5	6.549e5	4.589e4	5.999e4	0.78	NO	1.057e5	14.4	14.4

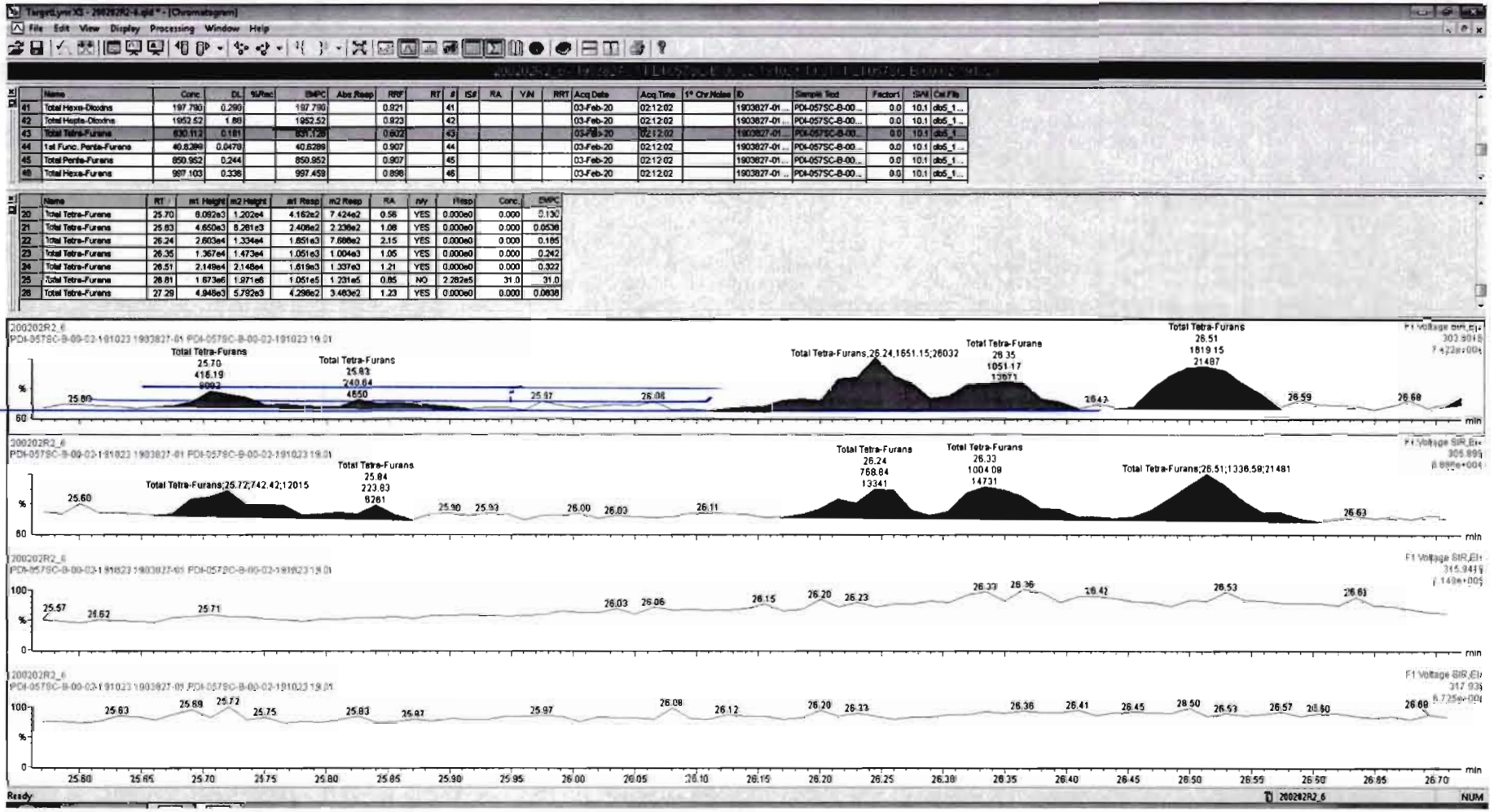


Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	Exp	RA	YN	RRT	Acq Date	Acq Time	Ch Name	ID	Sample Text	Factor1	S/N	Cal File
41 Total Hexa-Chlorine	187.790	0.290		187.790		0.921	41						03-Feb-20	02:12:02	1903827-01...	PDH-0575C-B-00...	0.0	10.1	db5_1...	
42 Total Hepta-Chlorine	1952.52	1.86		1952.52		0.923	42						03-Feb-20	02:12:02	1903827-01...	PDH-0575C-B-00...	0.0	10.1	db5_1...	
43 Total Tetra-Furans	890.112	0.181		891.128		0.802	43						03-Feb-20	02:12:02	1903827-01...	PDH-0575C-B-00...	0.0	10.1	db5_1...	
44 1st Func. Penta-Furans	40.6299	0.0478		40.6289		0.907	44						03-Feb-20	02:12:02	1903827-01...	PDH-0575C-B-00...	0.0	10.1	db5_1...	
45 Total Penta-Furans	850.852	0.244		850.952		0.907	45						03-Feb-20	02:12:02	1903827-01...	PDH-0575C-B-00...	0.0	10.1	db5_1...	
46 Total Hexa-Furans	897.103	0.336		897.459		0.898	46						03-Feb-20	02:12:02	1903827-01...	PDH-0575C-B-00...	0.0	10.1	db5_1...	

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	h/y	Resp	Conc.	EMPC
1 Total Tetra-Furans	19.84	6.830e4	8.809e4	5.293e3	7.399e3	0.67	NO	1.323e4	1.80	1.80
2 Total Tetra-Furans	20.18	1.413e5	1.826e5	1.172e4	1.704e4	0.89	NO	2.876e4	3.91	3.91
3 Total Tetra-Furans	20.77	7.398e5	8.907e5	8.444e4	8.766e4	0.74	NO	1.521e5	20.7	20.7
4 Total Tetra-Furans	21.33	2.801e5	3.681e5	4.044e4	5.442e4	0.74	NO	9.486e4	12.9	12.9
5 Total Tetra-Furans	21.72	2.143e6	2.845e6	2.056e5	2.786e5	0.74	NO	4.844e5	65.8	65.8
6 Total Tetra-Furans	22.20	7.643e5	9.585e5	7.075e4	9.531e4	0.74	NO	1.861e5	22.6	22.6
7 Total Tetra-Furans	22.35	7.011e4	8.409e4	6.622e3	8.840e3	0.77	NO	1.526e4	2.07	2.07
8 Total Tetra-Furans	22.58	4.914e5	6.549e5	4.589e4	5.968e4	0.76	NO	1.057e5	14.4	14.4







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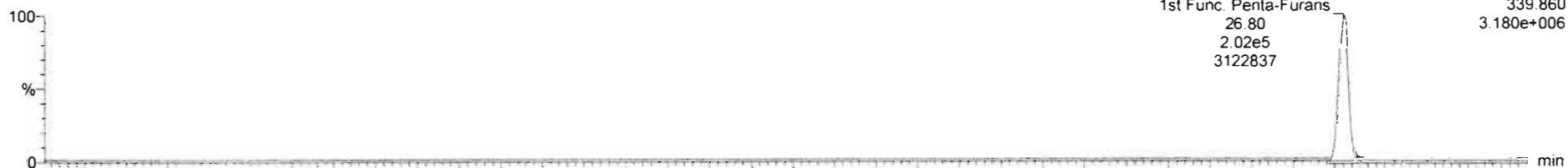
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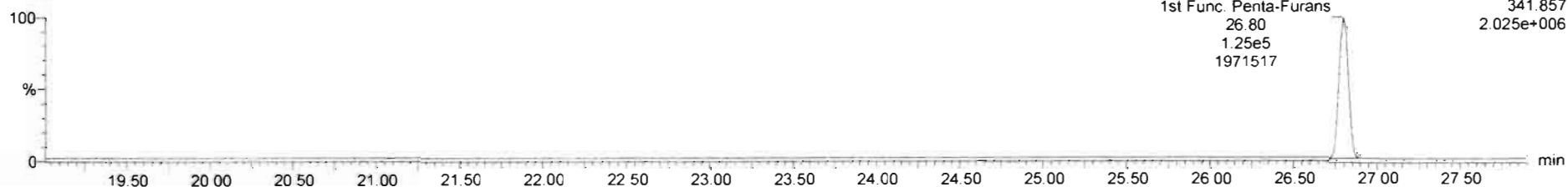
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1st Func. Penta-Furans

200202R2_6

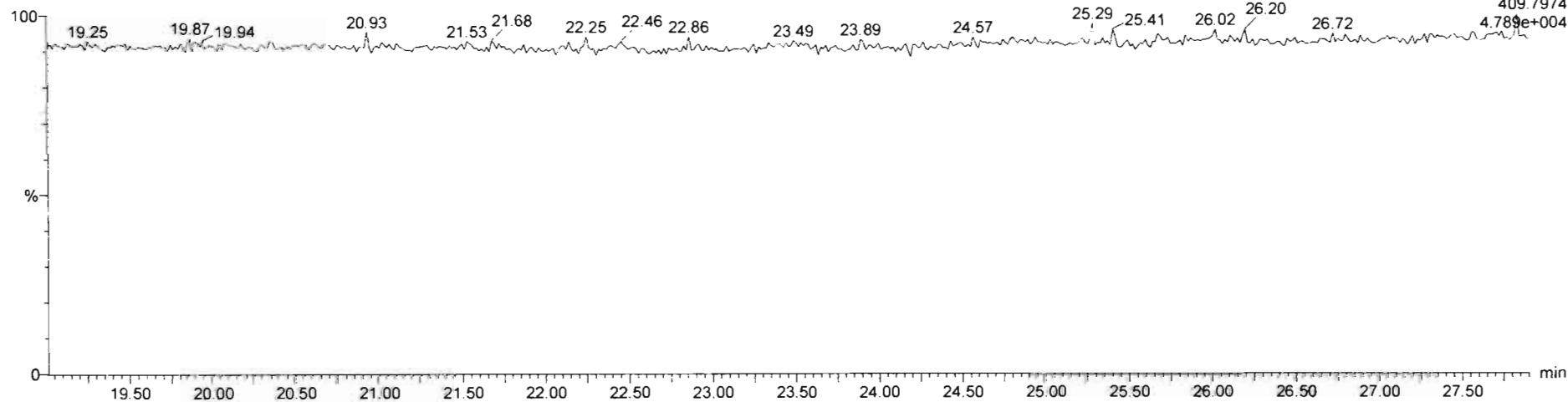


200202R2_6



DPE6

200202R2_6

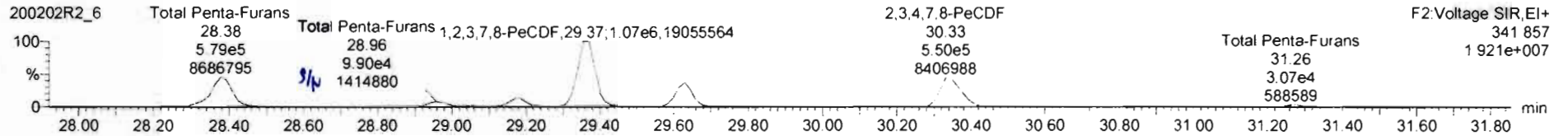
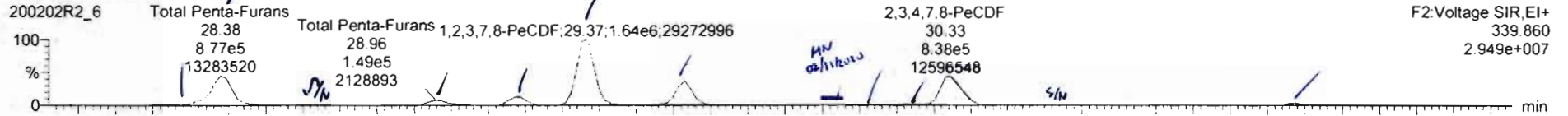


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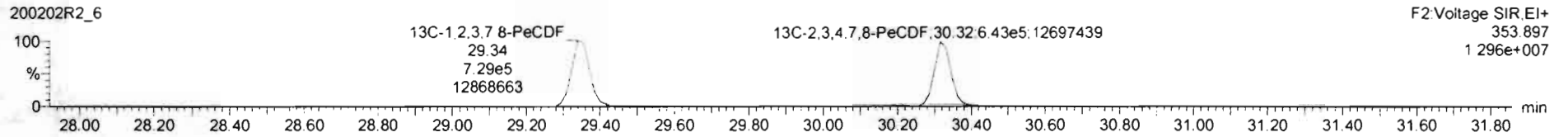
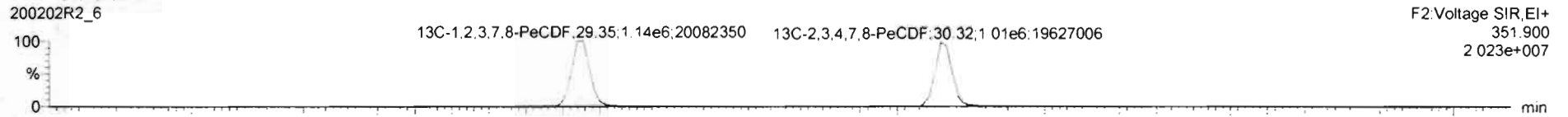
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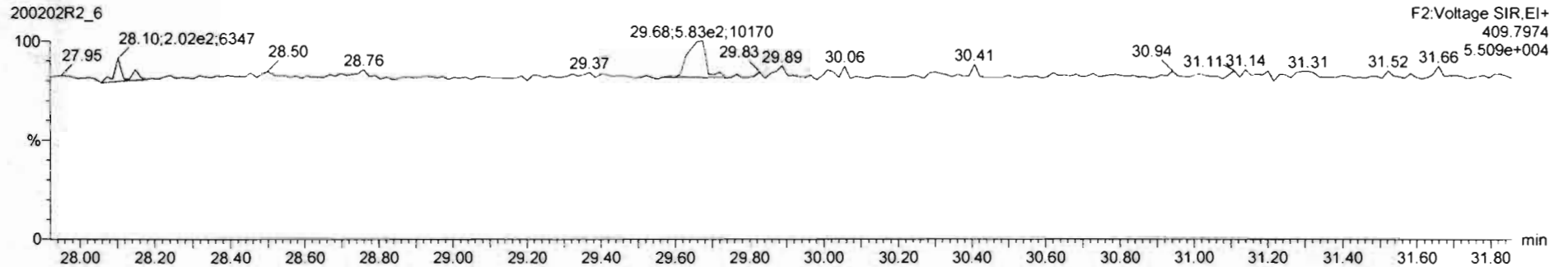
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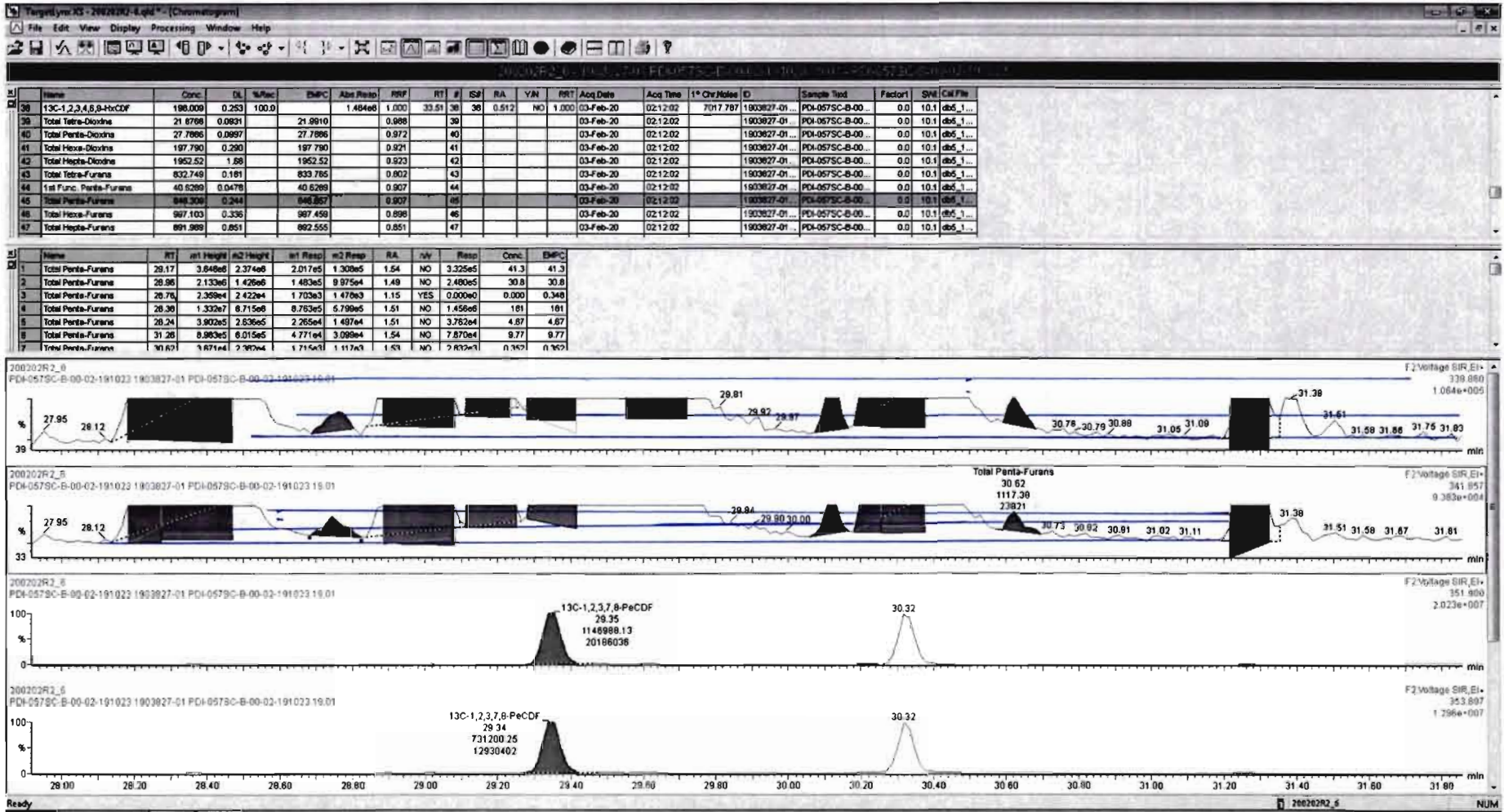


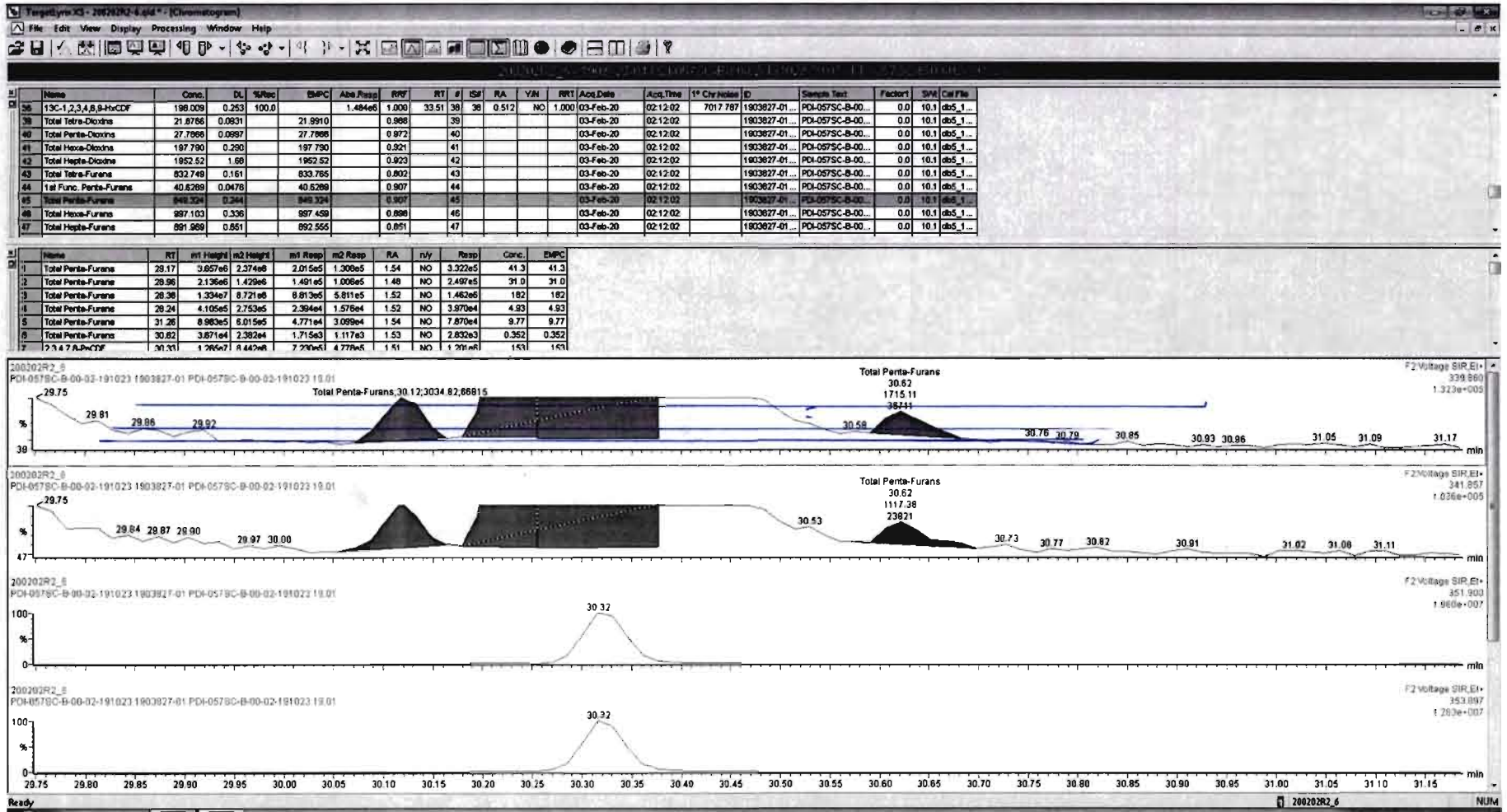
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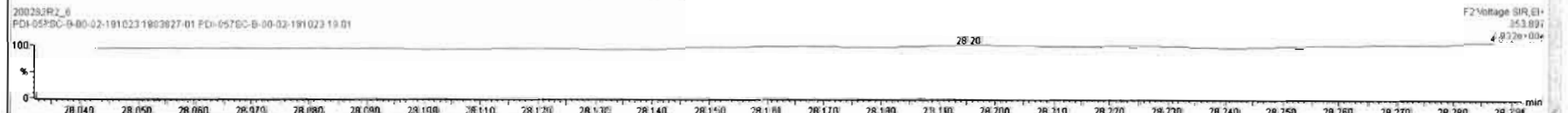
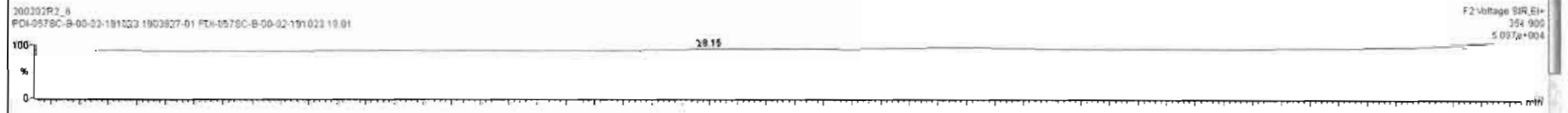
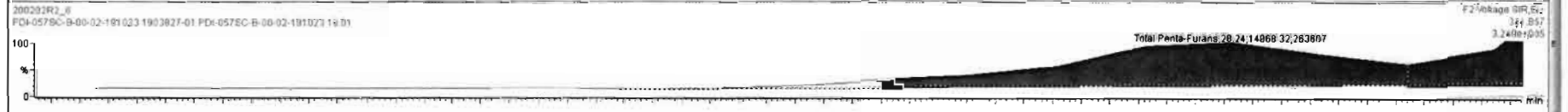
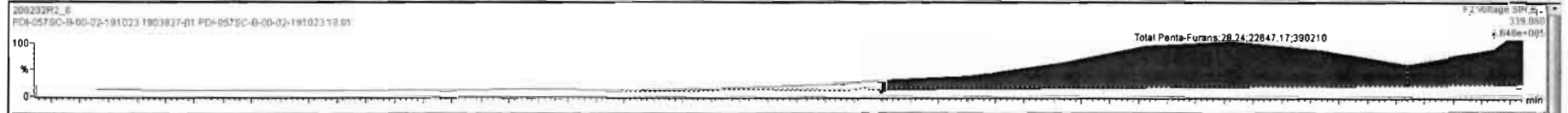


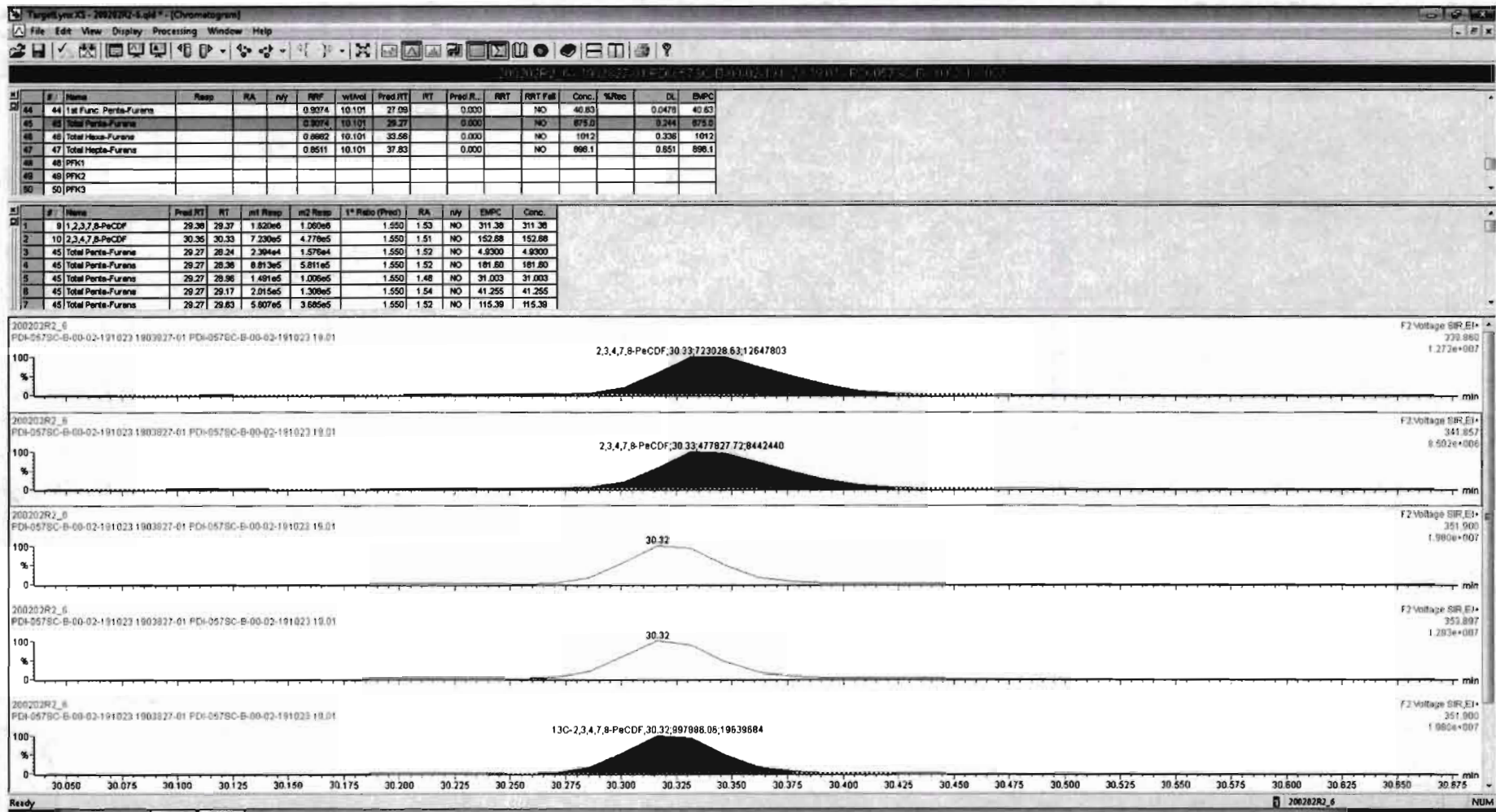


200202R2_4.d - 03-Feb-20 19:03:27.01 PDI-0575C-B-00-02-191023 19.01 PDI-0575C-B-00-02-191023

#	Name	Conc.	DL	%Rat	EMPC	Abs Resp	RF	RT	#	IS	RA	YN	PRT	Acq Date	Acq Time	1* Chr Noise	ID	Sample Text	Factor1	SW	Cal File
38	13C-1,2,3,4,6,8-HxCDF	188.008	0.263	100.0		1.484e6	1.000	30.51	38	38	0.512	NO	1.000	03-Feb-20	02:12:02	7017.797	1903827-01...	PDI-0575C-B-00...	0.0	10.1	obs_1...
39	Total Tetra-Dioxins	21.8786	0.0831		21.9810	0.968								03-Feb-20	02:12:02		1903827-01...	PDI-0575C-B-00...	0.0	10.1	obs_1...
40	Total Penta-Dioxins	27.7866	0.0997		27.7866	0.972								03-Feb-20	02:12:02		1903827-01...	PDI-0575C-B-00...	0.0	10.1	obs_1...
41	Total Hexa-Dioxins	197.790	0.290		197.790	0.821								03-Feb-20	02:12:02		1903827-01...	PDI-0575C-B-00...	0.0	10.1	obs_1...
42	Total Hepta-Dioxins	1952.52	1.88		1952.52	0.923								03-Feb-20	02:12:02		1903827-01...	PDI-0575C-B-00...	0.0	10.1	obs_1...
43	Total Tetra-Furans	832.749	0.181		833.765	0.902								03-Feb-20	02:12:02		1903827-01...	PDI-0575C-B-00...	0.0	10.1	obs_1...
44	1st Func. Penta-Furans	40.6289	0.0478		40.6289	0.907								03-Feb-20	02:12:02		1903827-01...	PDI-0575C-B-00...	0.0	10.1	obs_1...
45	Total Penta-Furans	966.308	0.244		968.857	0.907								03-Feb-20	02:12:02		1903827-01...	PDI-0575C-B-00...	0.0	10.1	obs_1...
46	Total Hexa-Furans	897.103	0.335		897.459	0.898								03-Feb-20	02:12:02		1903827-01...	PDI-0575C-B-00...	0.0	10.1	obs_1...
47	Total Hepta-Furans	891.989	0.851		882.555	0.851								03-Feb-20	02:12:02		1903827-01...	PDI-0575C-B-00...	0.0	10.1	obs_1...

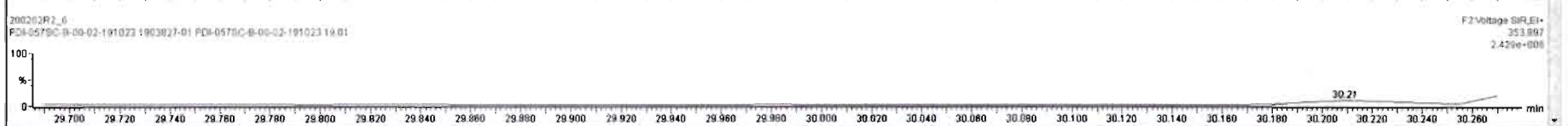
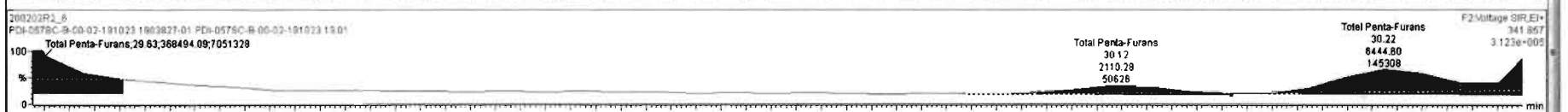
#	Name	RT	mt Height	mt Width	mt Resp	mt Resp	RA	nV	Resp	Conc	EMPC
1	Total Penta-Furans	29.17	3.646e6	2.374e6	2.017e5	1.306e5	1.54	NO	3.325e5	41.3	41.3
2	Total Penta-Furans	28.96	2.133e6	1.426e6	1.483e5	9.975e4	1.49	NO	2.490e5	30.8	30.8
3	Total Penta-Furans	28.76	2.359e4	2.422e4	1.703e3	1.478e3	1.15	YES	0.000e0	0.000	0.348
4	Total Penta-Furans	28.30	1.332e7	8.715e6	8.783e5	5.799e5	1.51	NO	1.456e6	191	191
5	Total Penta-Furans	28.24	3.902e5	2.836e5	2.265e4	1.497e4	1.51	NO	3.762e4	4.67	4.67
6	Total Penta-Furans	31.26	8.983e5	6.015e5	4.771e4	3.099e4	1.54	NO	7.870e4	9.77	9.77
7	Total Penta-Furans	30.82	3.471e4	2.700e4	1.715e3	1.117e3	1.53	NO	2.470e3	0.767	0.767





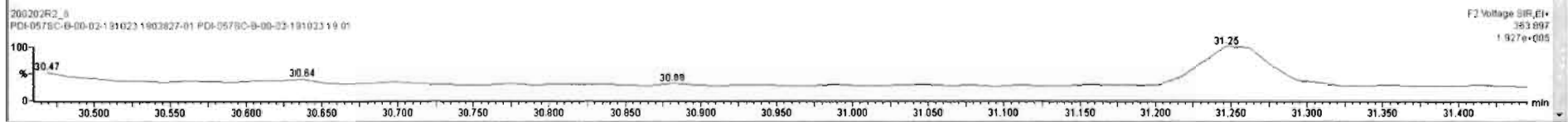
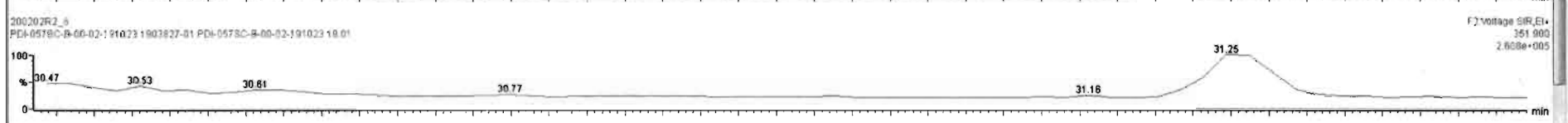
#	Name	Conc.	DL	%Inc	EMPC	Abs Resp	RRP	RT	#	ISd	RA	VN	RR1	Acq Date	Acq Time	**Chr Noise	ID	Sample Text	Factor1	SVM	Cal File
38	13C-1,2,3,4,6,8-HxCDF	198.008	0.253	100.0		1.484e6	1.000	33.51	38	38	0.512	NO	1.000	03-Feb-20	02:12:02	7017.787	1903827-01...	PD4-0575C-B-00...	0.0	10.1	db5_1...
39	Total Tetra-Dioxine	21.8766	0.0831			21.9810	0.988		39					03-Feb-20	02:12:02		1903827-01...	PD4-0575C-B-00...	0.0	10.1	db5_1...
40	Total Penta-Dioxine	27.7866	0.0987			27.7866	0.972		40					03-Feb-20	02:12:02		1903827-01...	PD4-0575C-B-00...	0.0	10.1	db5_1...
41	Total Hexa-Dioxine	187.790	0.290			187.790	0.921		41					03-Feb-20	02:12:02		1903827-01...	PD4-0575C-B-00...	0.0	10.1	db5_1...
42	Total Hepta-Dioxine	1952.52	1.88			1952.52	0.923		42					03-Feb-20	02:12:02		1903827-01...	PD4-0575C-B-00...	0.0	10.1	db5_1...
43	Total Tetra-Furans	832.749	0.181			833.765	0.902		43					03-Feb-20	02:12:02		1903827-01...	PD4-0575C-B-00...	0.0	10.1	db5_1...
44	1st Func. Penta-Furans	40.8289	0.0478			40.8289	0.907		44					03-Feb-20	02:12:02		1903827-01...	PD4-0575C-B-00...	0.0	10.1	db5_1...
45	Total Penta-Furans	852.852	0.244			850.852	0.907		45					03-Feb-20	02:12:02		1903827-01...	PD4-0575C-B-00...	0.0	10.1	db5_1...
46	Total Hexa-Furans	987.103	0.336			987.459	0.899		46					03-Feb-20	02:12:02		1903827-01...	PD4-0575C-B-00...	0.0	10.1	db5_1...
47	Total Hepta-Furans	891.989	0.651			892.556	0.851		47					03-Feb-20	02:12:02		1903827-01...	PD4-0575C-B-00...	0.0	10.1	db5_1...

#	Name	RT	m1 HgHt	m2 HgHt	m1 Resp	m2 Resp	RA	rvf	Resp	Conc.	EMPC
1	Total Penta-Furans	30.17	3.857e6	2.374e6	2.015e5	1.305e5	1.54	NO	3.322e5	41.3	41.3
2	Total Penta-Furans	28.98	2.138e6	1.429e6	1.491e5	1.008e5	1.48	NO	2.497e5	31.0	31.0
3	Total Penta-Furans	28.38	1.334e7	8.721e6	8.813e5	5.811e5	1.52	NO	1.462e6	182	182
4	Total Penta-Furans	28.24	4.105e6	2.753e6	2.384e4	1.578e4	1.52	NO	3.870e4	4.33	4.33
5	Total Penta-Furans	31.26	9.080e5	8.078e5	4.869e4	3.174e4	1.53	NO	8.044e4	9.99	9.99
6	2,3,4,7,8-PeCDF	30.33	1.265e7	8.442e6	7.230e5	4.778e5	1.51	NO	1.201e6	153	153
7	Total Penta-Furans	30.22	9.367e6	1.445e6	8.967e5	5.445e5	1.55	NO	1.641e6	7.04	7.04



Name	Conc.	DL	%Rec	EMPC	Abs Ratio	RRF	RT	#	ISF	RA	Y/N	RRT	Acq.Date	Acq.Time	1 st Crv.No	D	Sample Text	Factor1	SM	Cal/Fn
38 13C-1,2,3,4,6,8-hxCDF	198.008	0.253	100.0		1.484e5	1.000	33.51	38	38	0.512	NO	1.000	03-Feb-20	02:12:02	7017.787		1903827-01... PDI-057SC-B-00...	0.0	10.1	db5_1...
39 Total Tetra-Dioxins	21.8788	0.0831		21.9810	0.988			39					03-Feb-20	02:12:02			1903827-01... PDI-057SC-B-00...	0.0	10.1	db5_1...
40 Total Penta-Dioxins	27.7868	0.0897		27.7868	0.972			40					03-Feb-20	02:12:02			1903827-01... PDI-057SC-B-00...	0.0	10.1	db5_1...
41 Total Hexa-Dioxins	187.790	0.290		187.790	0.921			41					03-Feb-20	02:12:02			1903827-01... PDI-057SC-B-00...	0.0	10.1	db5_1...
42 Total Hepta-Dioxins	1952.52	1.68		1952.52	0.923			42					03-Feb-20	02:12:02			1903827-01... PDI-057SC-B-00...	0.0	10.1	db5_1...
43 Total Tetra-Furans	832.748	0.161		833.785	0.802			43					03-Feb-20	02:12:02			1903827-01... PDI-057SC-B-00...	0.0	10.1	db5_1...
44 1st Func. Penta-Furans	40.8289	0.0478		40.8289	0.807			44					03-Feb-20	02:12:02			1903827-01... PDI-057SC-B-00...	0.0	10.1	db5_1...
45 Total Penta-Furans	860.952	0.244		860.952	0.807			45					03-Feb-20	02:12:02			1903827-01... PDI-057SC-B-00...	0.0	10.1	db5_1...
46 Total Hexa-Furans	887.103	0.338		887.459	0.888			46					03-Feb-20	02:12:02			1903827-01... PDI-057SC-B-00...	0.0	10.1	db5_1...
47 Total Hepta-Furans	881.969	0.851		892.555	0.851			47					03-Feb-20	02:12:02			1903827-01... PDI-057SC-B-00...	0.0	10.1	db5_1...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Ratio	Conc.	EMPC
1 Total Penta-Furans	29.17	3.857e6	2.374e6	2.015e5	1.308e5	1.54	NO	3.322e5	41.3	41.3
2 Total Penta-Furans	28.96	2.138e6	1.429e6	1.491e5	1.008e5	1.48	NO	2.497e5	31.0	31.0
3 Total Penta-Furans	28.38	1.334e7	8.721e6	8.813e5	5.811e5	1.52	NO	1.462e6	182	182
4 Total Penta-Furans	28.24	4.105e5	2.753e5	2.394e4	1.576e4	1.52	NO	3.970e4	4.93	4.93
5 Total Penta-Furans	31.28	9.080e5	8.078e5	4.889e4	3.174e4	1.53	NO	8.044e4	9.98	9.98
6 2,3,4,7,8-PeCDF	30.33	1.285e7	8.442e6	7.230e5	4.778e5	1.51	NO	1.201e6	153	153
7 Total Penta-Furans	30.22	2.987e5	1.457e5	8.987e3	4.445e3	1.65	NO	1.841e4	7.04	7.04



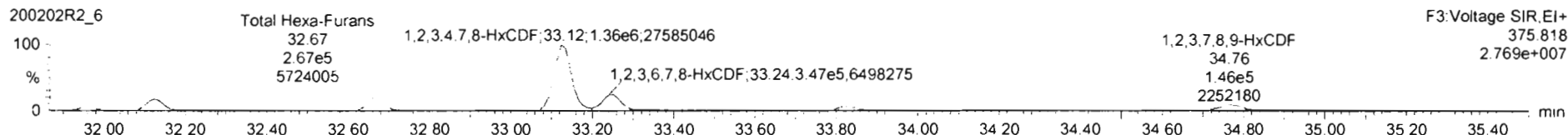
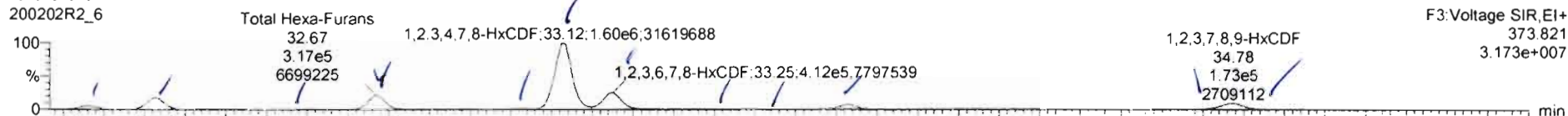
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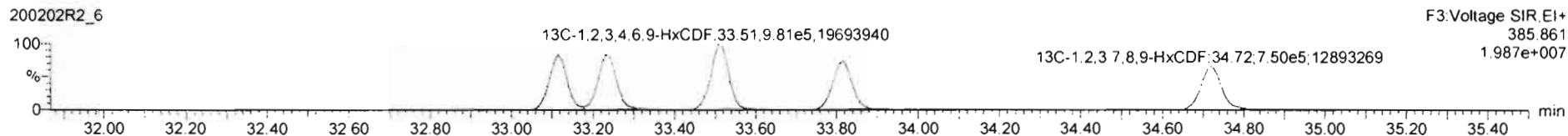
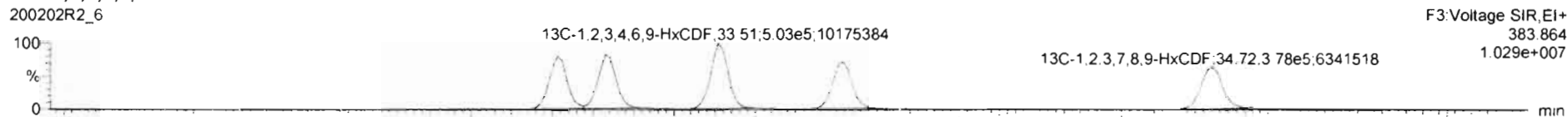
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Name: 200202R2_6, Date: 03-Feb-2020, Time: 02:12:02, ID: 1903827-01 PDI-057SC-B-00-02-191023 19.01, Description: PDI-057SC-B-00-02-191023

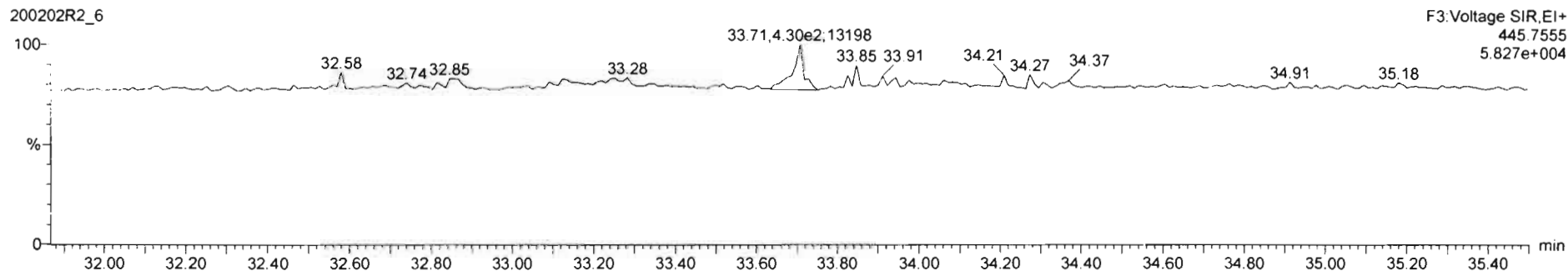
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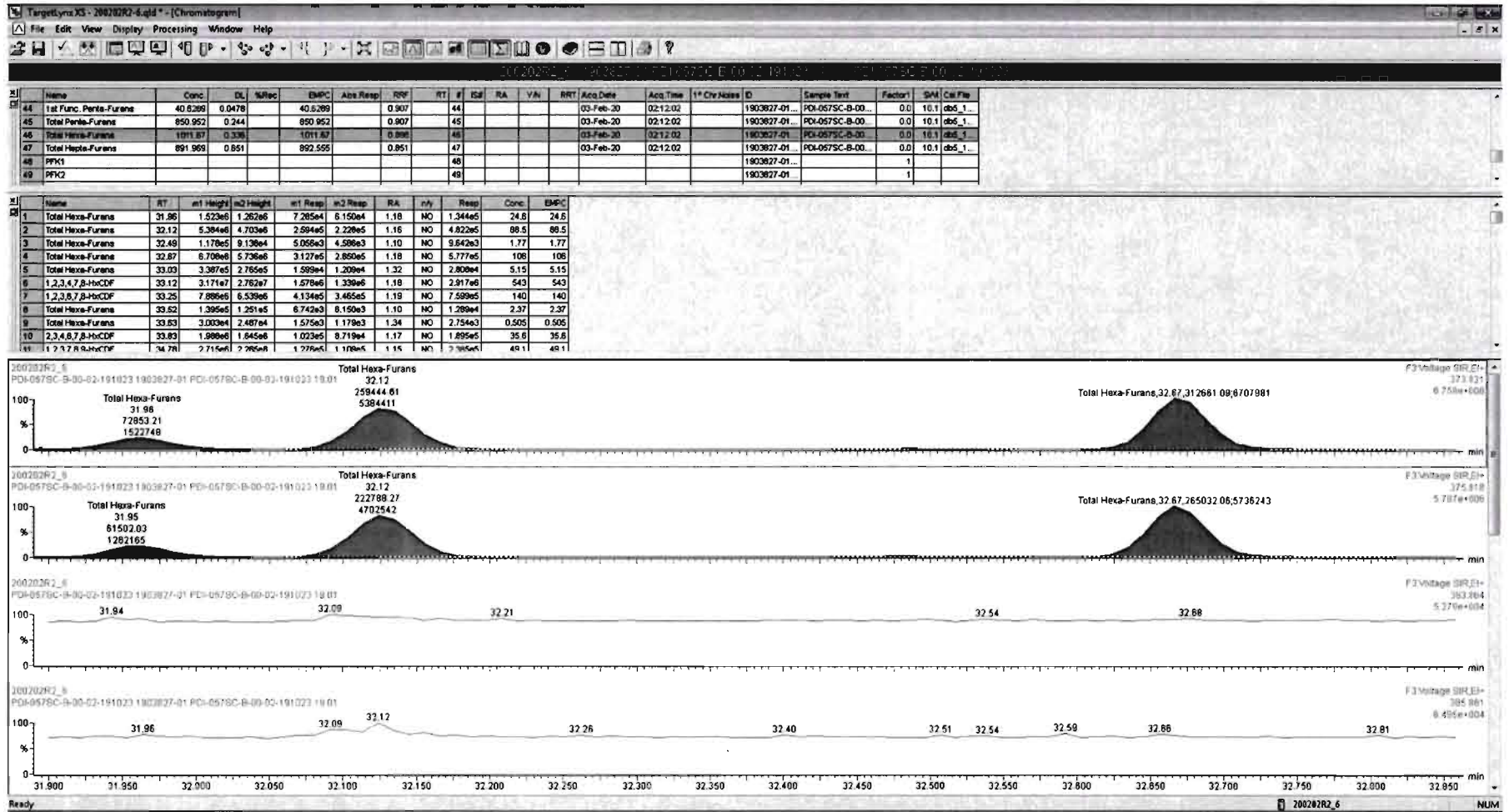


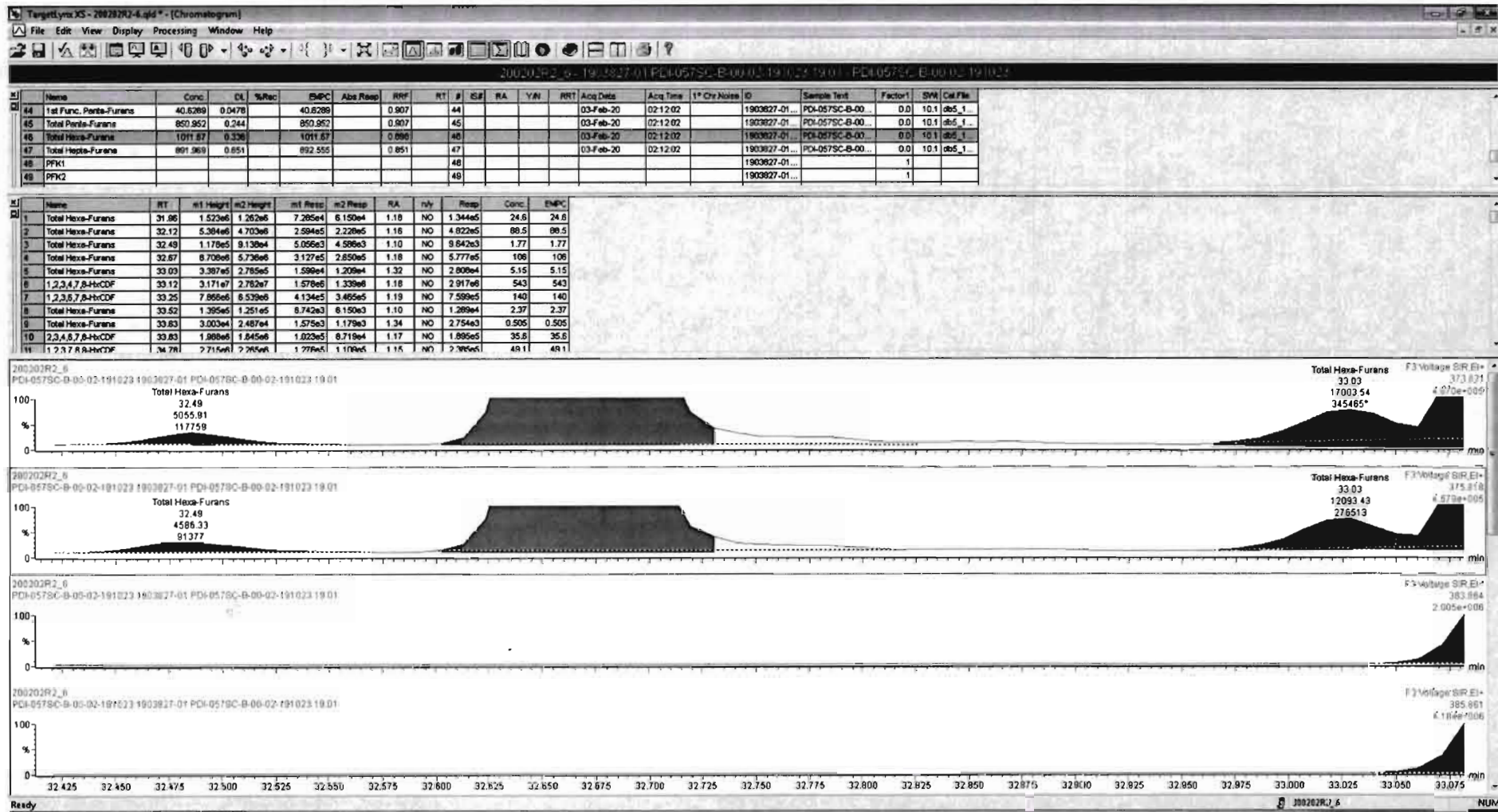
13C-1,2,3,4,7,8-HxCDF



DPE3



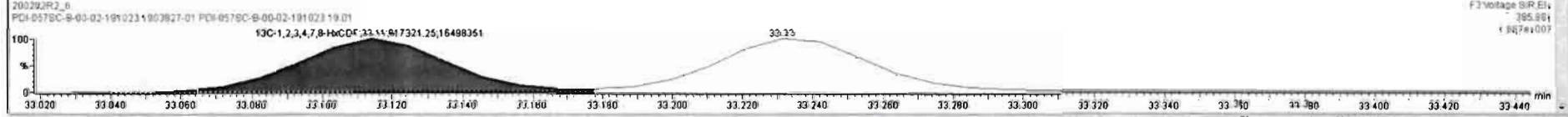
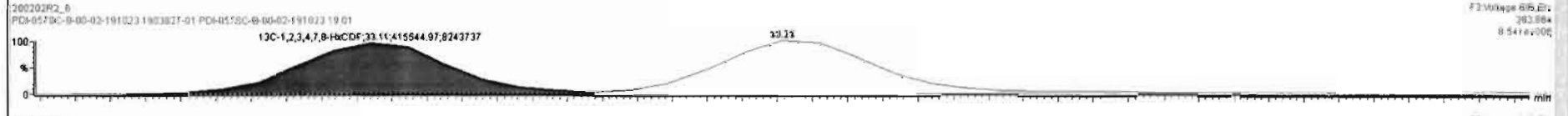
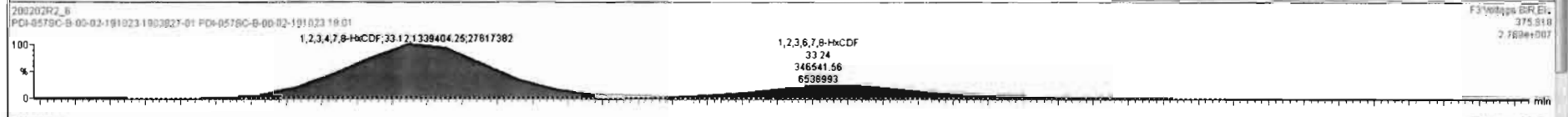
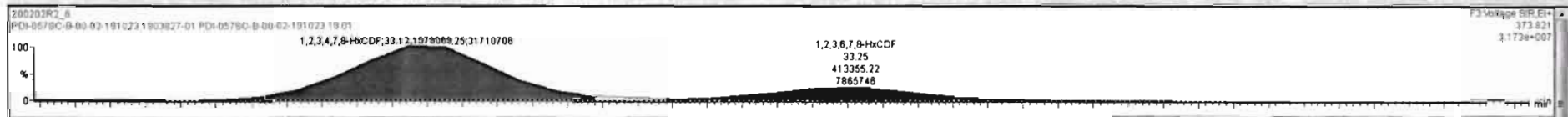


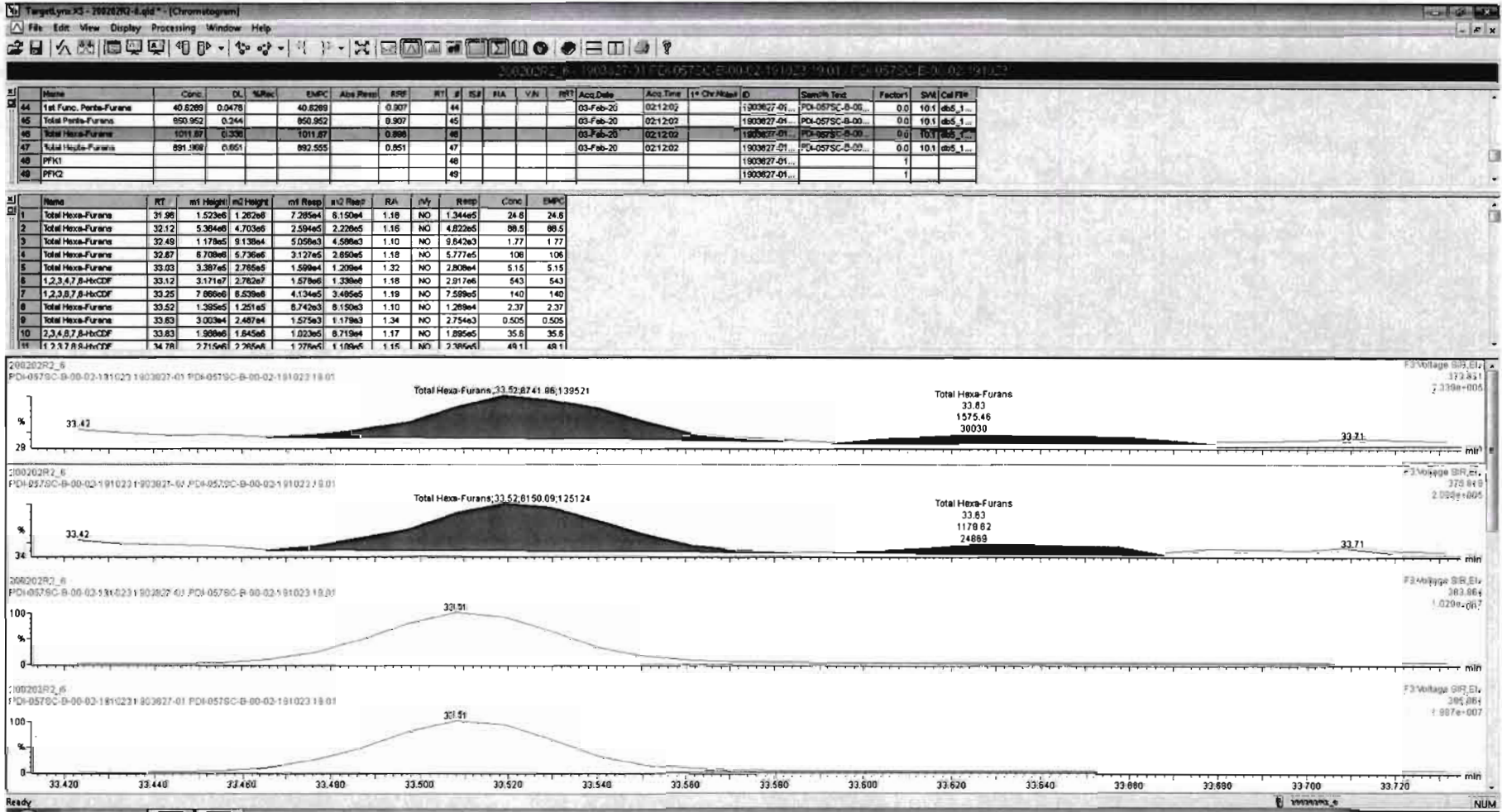


200202R2_6 - POI-057SC-B-00-02-191023-19-01-POI-057SC-B-00-02-191023

Name	Conc.	OL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	Y/N	WRT	Acq Date	Acq Time	% Conv	Acq ID	Sample Text	Factor1	SM	Cal File
44 1st Func. Penta-Furans	40.6269	0.0478		40.6269	0.907		44						03-Feb-20	02:12:02		1903827-01	POI-057SC-B-00...	0.0	10.1	db5_1...
45 Total Penta-Furans	850.952	0.244		850.952	0.907		45						03-Feb-20	02:12:02		1903827-01	POI-057SC-B-00...	0.0	10.1	db5_1...
46 Total Hexa-Furans	1011.67	0.238		1011.67	0.890		46						03-Feb-20	02:12:02		1903827-01	POI-057SC-B-00...	0.0	10.1	db5_1...
47 Total Hepta-Furans	891.969	0.651		892.555	0.851		47						03-Feb-20	02:12:02		1903827-01	POI-057SC-B-00...	0.0	10.1	db5_1...
48 PFK1							48									1903827-01...				
49 PFK2							49									1903827-01...				

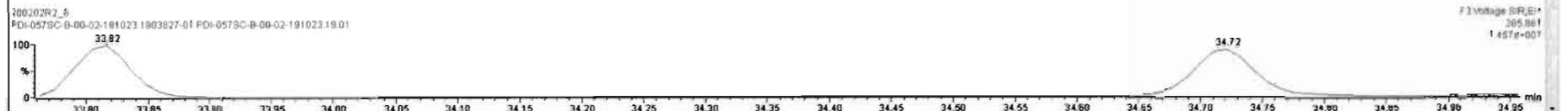
Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	IS#	Resp	Conc.	EMPC
1 Total Hexa-Furans	31.86	1.523e6	1.262e6	7.285e4	6.150e4	1.18	NO	1.344e5	24.6	24.6
2 Total Hexa-Furans	32.12	5.394e6	4.703e6	2.594e5	2.228e5	1.18	NO	4.822e5	88.5	88.5
3 Total Hexa-Furans	32.48	1.178e5	9.130e4	5.056e3	4.586e3	1.10	NO	9.842e3	1.77	1.77
4 Total Hexa-Furans	32.87	8.708e6	5.739e6	3.127e5	2.650e5	1.18	NO	5.777e5	106	106
5 Total Hexa-Furans	33.03	3.387e5	2.785e5	1.589e4	1.209e4	1.32	NO	2.809e4	5.15	5.15
6 1,2,3,4,7,8-HxCDF	33.12	3.171e7	2.782e7	1.578e6	1.339e6	1.18	NO	2.917e6	543	543
7 1,2,3,6,7,8-HxCDF	33.25	7.868e6	6.539e6	4.134e5	3.485e5	1.19	NO	7.599e5	140	140
8 Total Hexa-Furans	33.52	1.395e5	1.251e5	6.742e3	6.150e3	1.10	NO	1.289e4	2.37	2.37
9 Total Hexa-Furans	33.83	3.003e4	2.487e4	1.575e3	1.179e3	1.34	NO	2.754e3	0.505	0.505
10 2,3,4,6,7,8-HxCDF	33.83	1.888e6	1.645e6	1.023e5	8.719e4	1.17	NO	1.895e5	35.6	35.6
11 1,2,3,7,8-HxCDF	34.78	2.715e6	2.295e6	1.279e5	1.109e5	1.15	NO	2.295e5	48.1	48.1





Name	Conc.	DL	%Rec	B4PC	Abs Resp	RRF	RT	#	IS#	RA	Y/N	RR1	Acq Date	Acq Time	1* Chv Notes	D	Sample Text	Factor1	SN	Cal File
44 Total Penta-Furans	40.8290	0.0478		40.8290		0.907	44						03-Feb-20	02:12:02		1903827-01...	PO4-0575C-B-00...	0.0	10.1	db5_1...
45 Total Penta-Furans	850.952	0.244		850.952		0.907	45						03-Feb-20	02:12:02		1903827-01...	PO4-0575C-B-00...	0.0	10.1	db5_1...
46 Total Hexa-Furans	1072.07	0.338		1072.07		0.998	46						03-Feb-20	02:12:02		1903827-01...	PO4-0575C-B-00...	0.0	10.1	db5_1...
47 Total Hexa-Furans	891.969	0.851		892.555		0.851	47						03-Feb-20	02:12:02		1903827-01...	PO4-0575C-B-00...	0.0	10.1	db5_1...
48 PFK1							48									1903827-01...		1		
49 PFK2							49									1903827-01...		1		

Name	RT	wt Height	rd Height	wt Resp	rd Resp	RA	nY	Resp	Conc.	B4PC
1 Total Hexa-Furans	31.96	1.522e6	1.262e6	7.285e4	6.150e4	1.18	NO	1.344e6	24.8	24.8
2 Total Hexa-Furans	32.12	5.364e6	4.703e6	2.584e5	2.228e5	1.16	NO	4.622e6	86.5	86.5
3 Total Hexa-Furans	32.49	1.178e5	8.138e4	5.059e3	4.586e3	1.10	NO	9.642e3	1.77	1.77
4 Total Hexa-Furans	32.67	6.708e6	5.736e6	3.127e5	2.650e5	1.18	NO	5.777e6	106	106
5 Total Hexa-Furans	33.03	3.455e5	2.765e5	1.700e4	1.208e4	1.41	NO	2.810e4	5.34	5.34
6 1,2,3,4,7,8-HxCDF	33.12	3.171e7	2.762e7	1.578e6	1.338e6	1.18	NO	2.817e6	543	543
7 1,2,3,5,7,8-HxCDF	33.25	7.866e6	6.539e6	4.134e5	3.465e5	1.19	NO	7.539e6	140	140
8 Total Hexa-Furans	33.52	1.395e5	1.251e5	6.742e3	6.190e3	1.10	NO	1.269e4	2.37	2.37
9 Total Hexa-Furans	33.63	3.003e4	2.487e4	1.575e3	1.179e3	1.34	NO	2.754e3	0.505	0.505
10 2,3,4,6,7,8-HxCDF	33.83	1.988e6	1.645e6	1.022e5	8.719e4	1.17	NO	1.895e6	35.6	35.6
11 1,2,3,7,8-HxCDF	34.78	2.729e6	2.266e6	1.290e5	1.106e5	1.15	NO	2.289e6	48.7	48.7



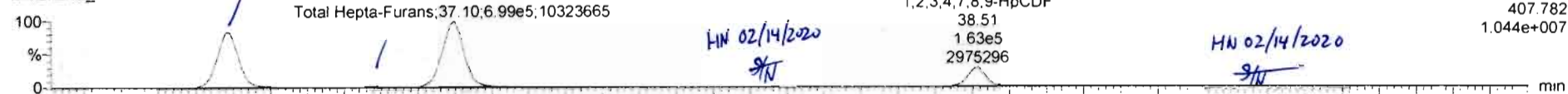
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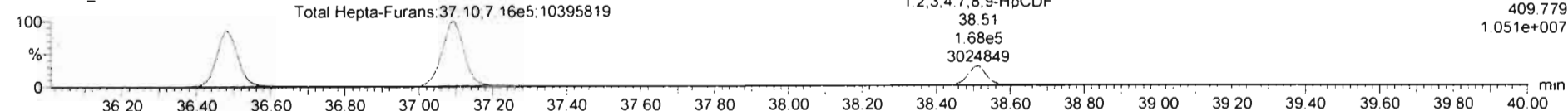
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200202R2_6

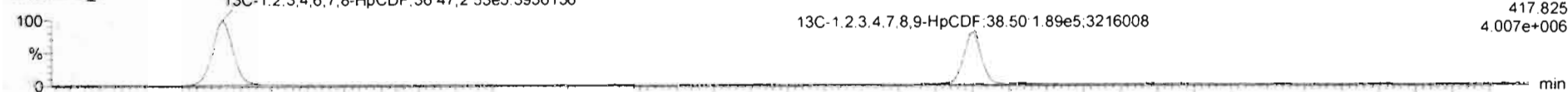


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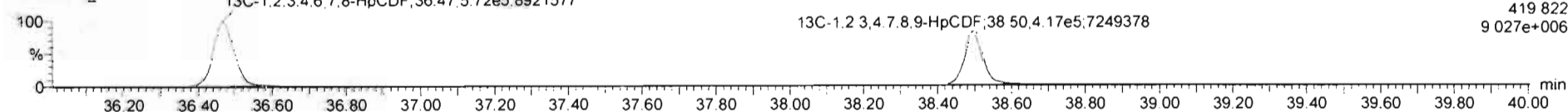


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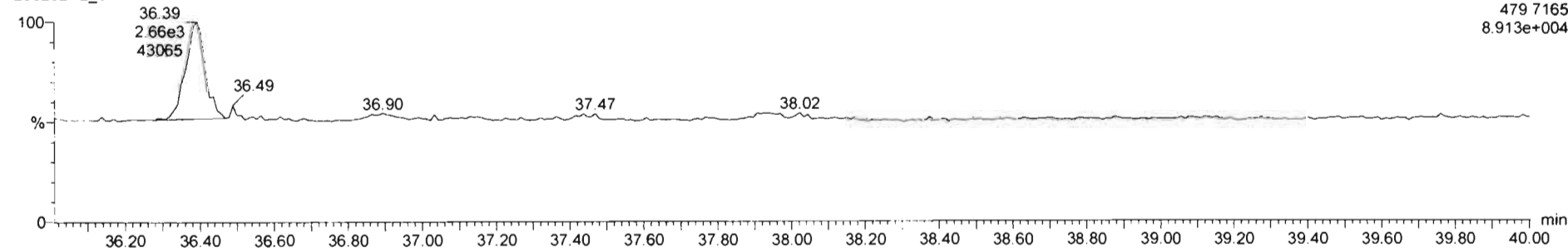


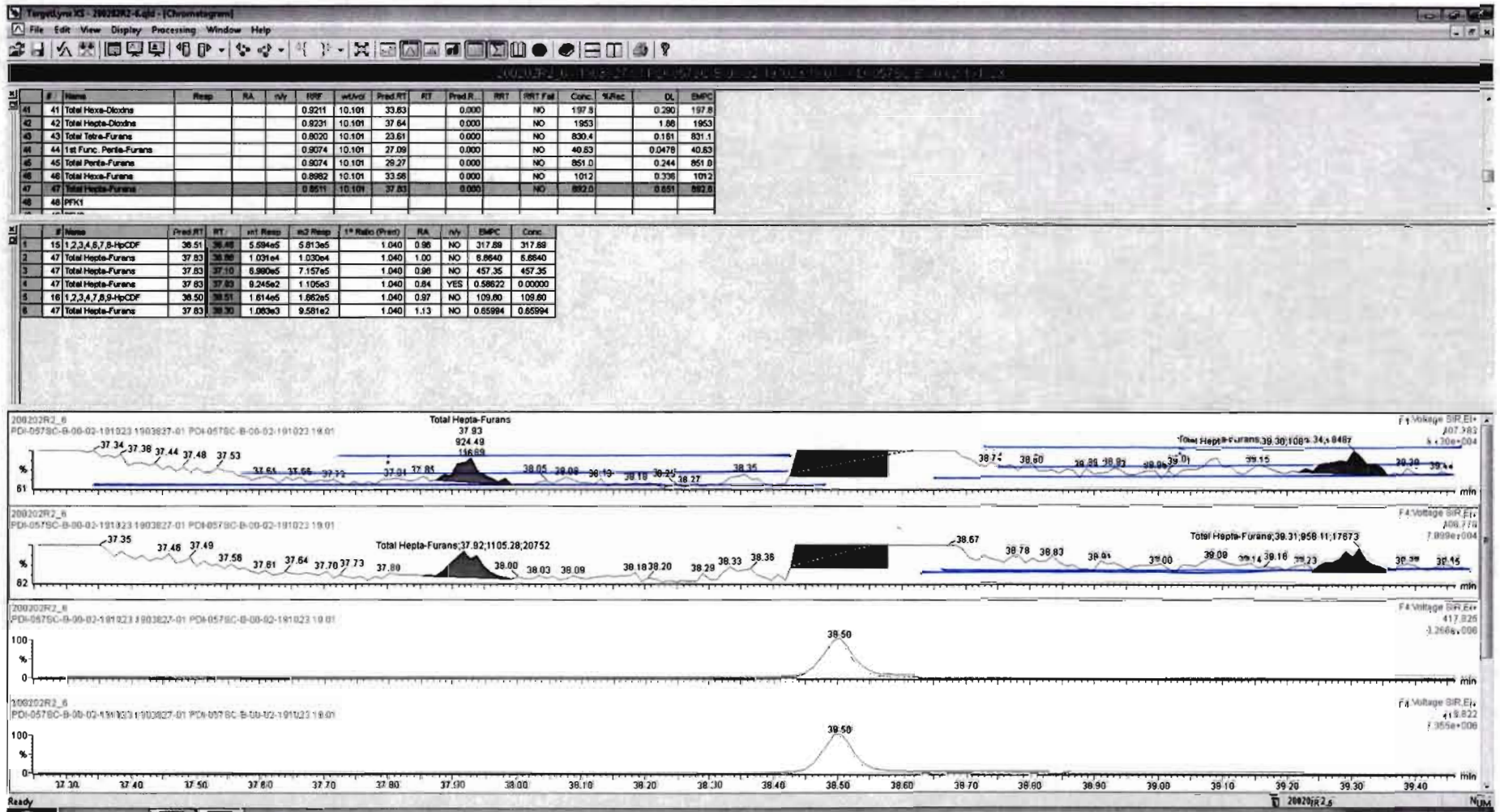
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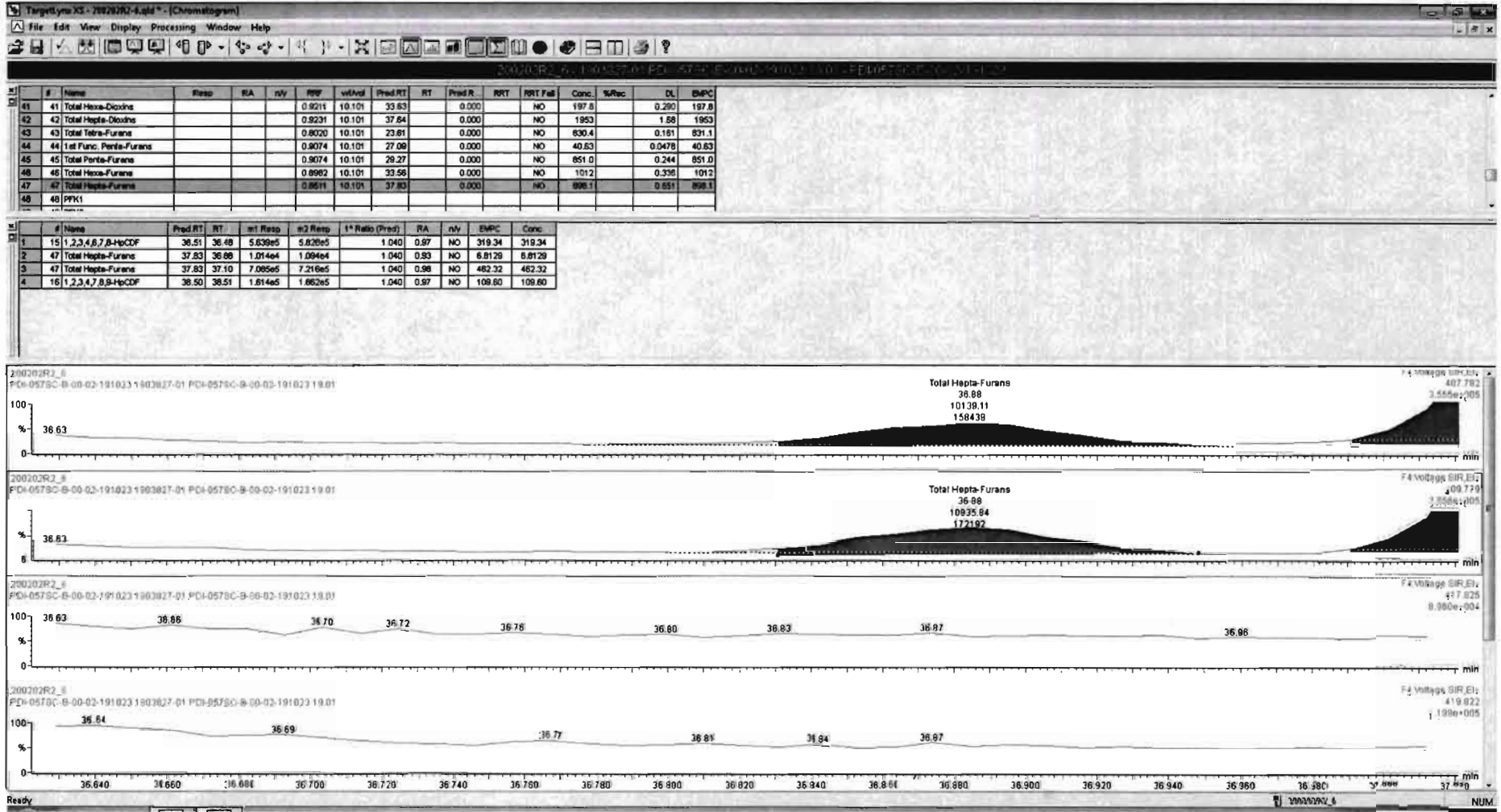


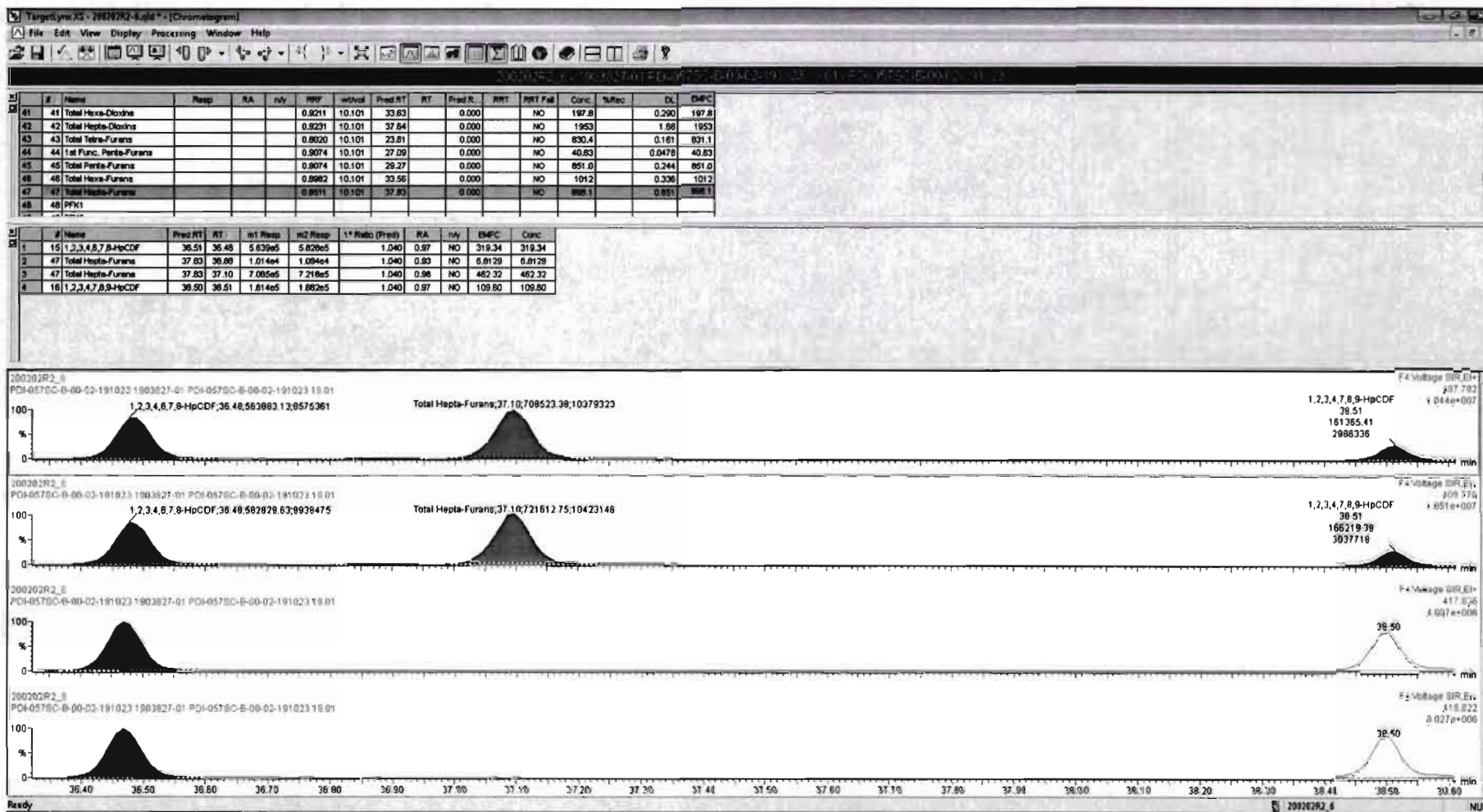
DPE4

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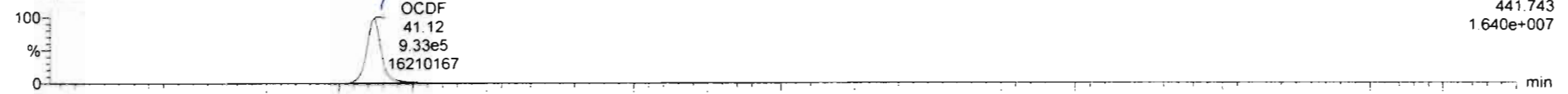
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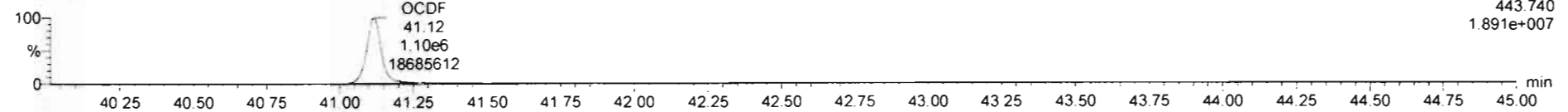
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OCDF

200202R2_6

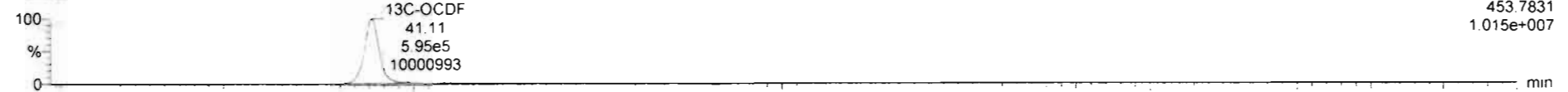


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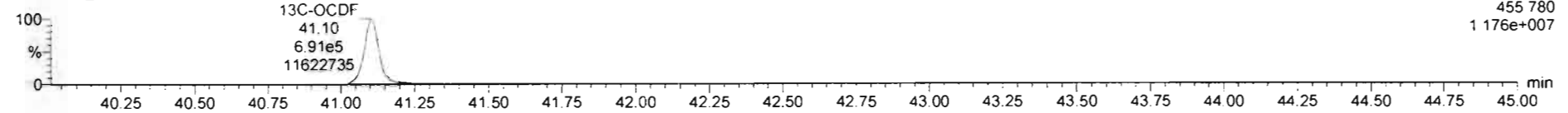


13C-OCDF

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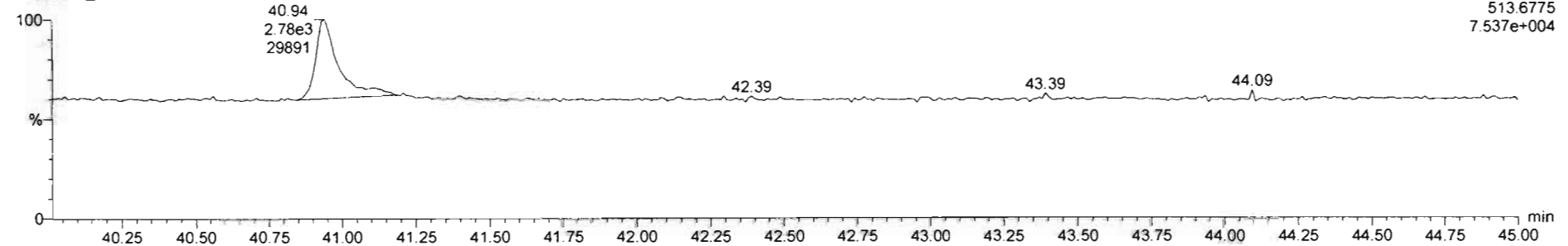


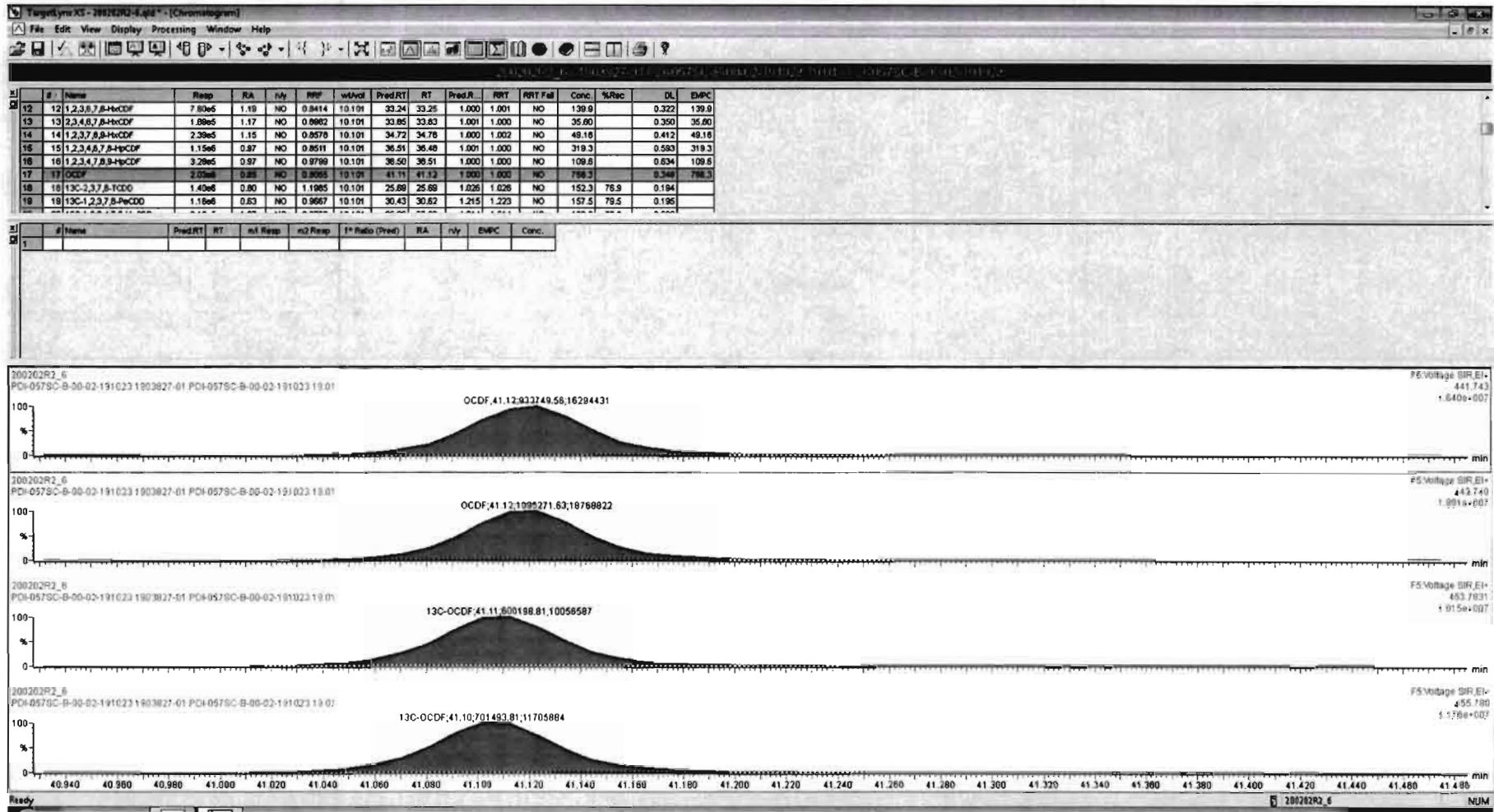
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DPE5

200202R2_6



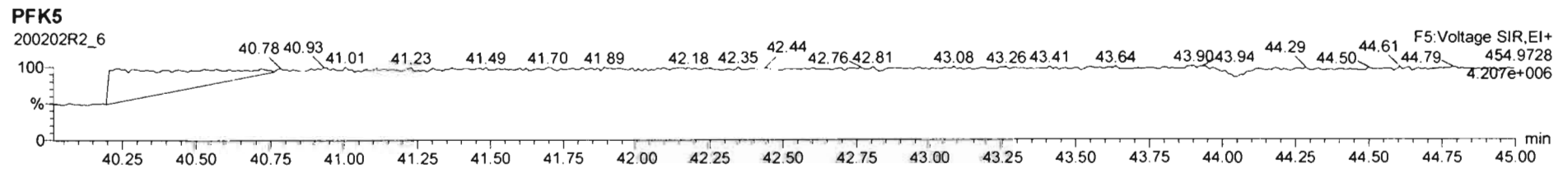
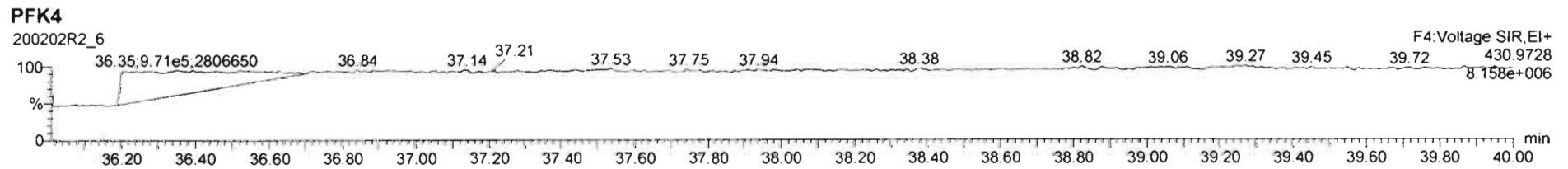
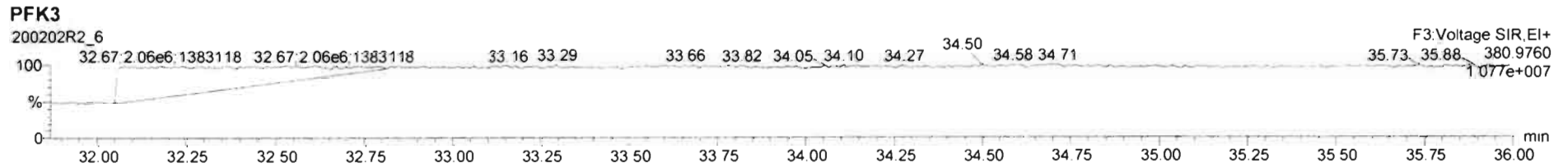
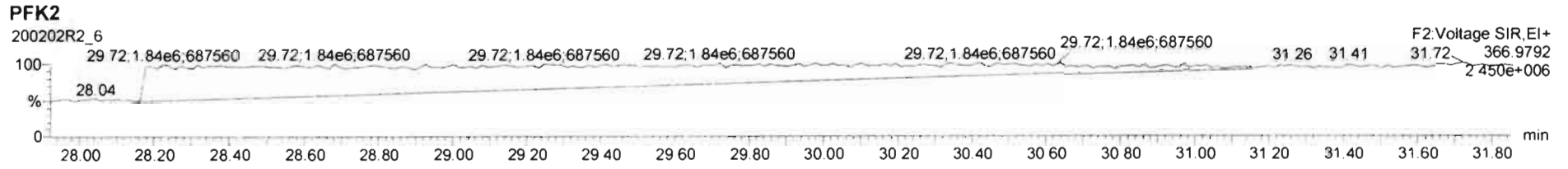
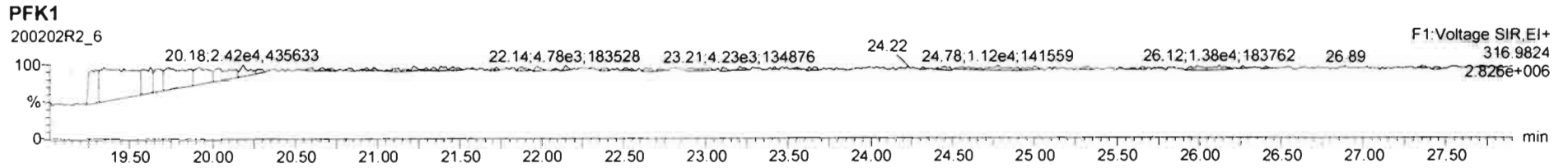


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Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

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Dataset: U:\VG12.PRO\Results\200203R1\200203R1-13.qld

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Printed: Wednesday, February 12, 2020 08:29:31 Pacific Standard Time

HN 02/12/2020

C7 02/14/2020

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

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#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	7 OCDD	3287858.3...	0.869	NO	0.975	10.101	40.92	40.93	1.00	1.00	NO	10940		3.79	10940
2	24 13C-OCDD	122097.582	0.893	NO	0.707	10.101	40.84	40.92	1.22	1.22	NO	135.0	34.1	0.662	
3	35 37Cl-2,3,7,8-TCDD	114561.148			1.18	10.101	25.74	25.74	1.03	1.03	NO	61.59	77.8	0.287	
4	36 13C-1,2,3,4-TCDD	313114.765	0.800	NO	1.00	10.101	25.08	25.06	1.00	1.00	NO	198.0	100	0.936	
5	37 13C-1,2,3,4-TCDF	468159.969	0.767	NO	1.00	10.101	23.42	23.42	1.00	1.00	NO	198.0	100	1.08	
6	38 13C-1,2,3,4,6,9-HxCDF	253499.984	0.508	NO	1.00	10.101	33.52	33.53	1.00	1.00	NO	198.0	100	0.896	

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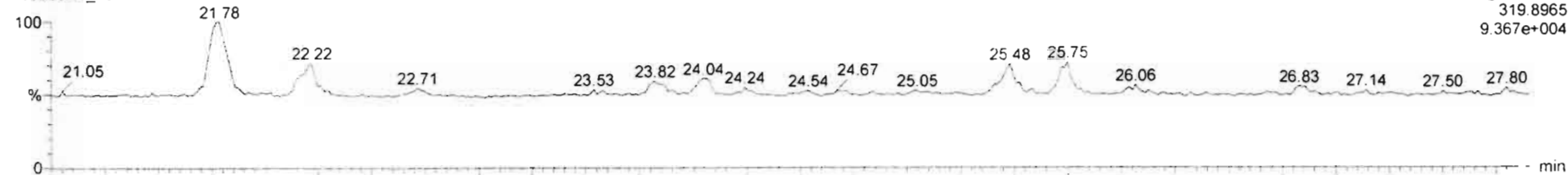
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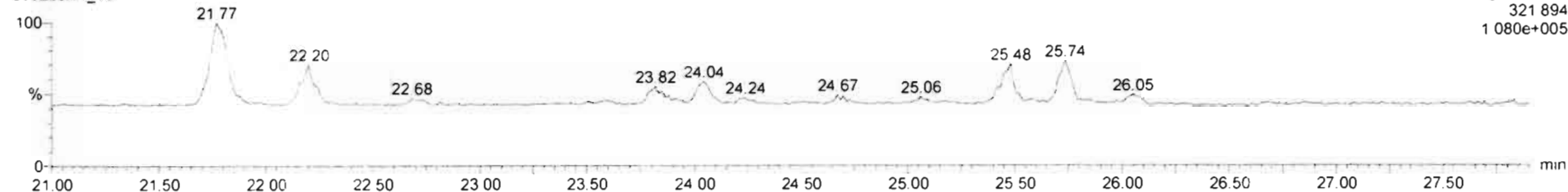
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2,3,7,8-TCDD

200203R1_13

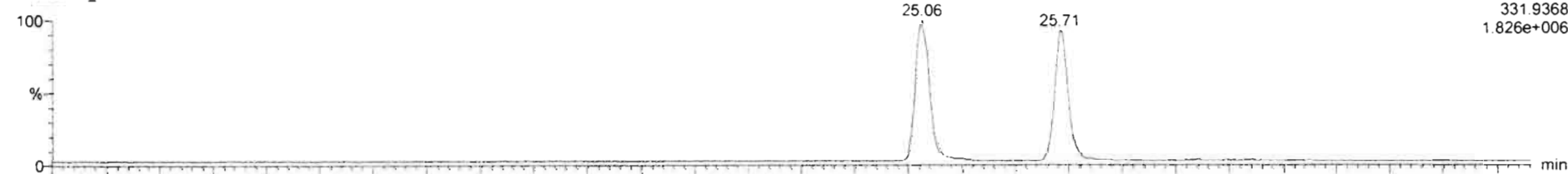


200203R1_13

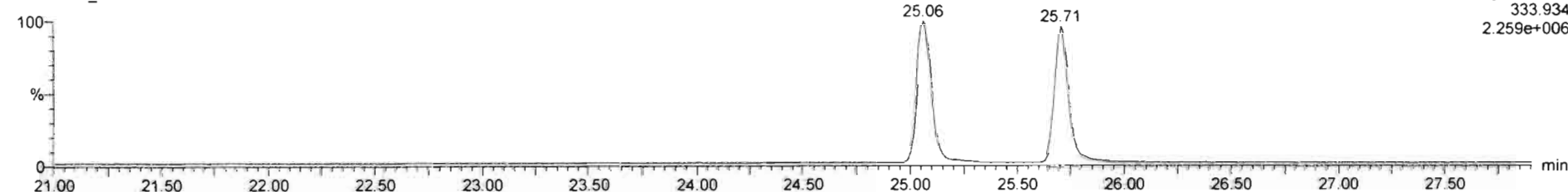


13C-2,3,7,8-TCDD

200203R1_13



200203R1_13



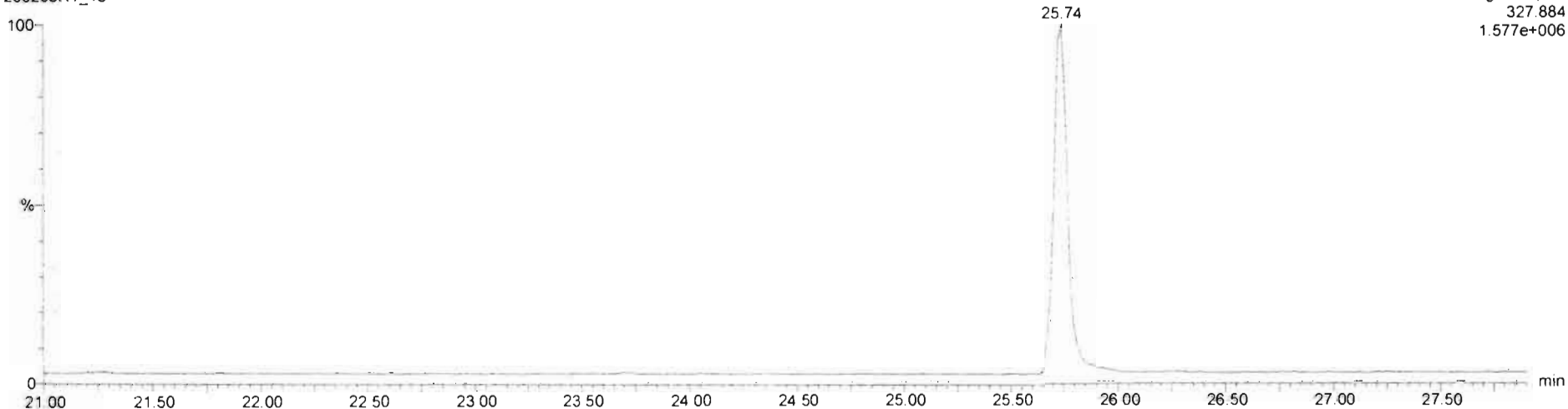
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Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time
Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

Name: 200203R1_13, Date: 03-Feb-2020, Time: 21:26:43, ID: 1903827-01@5X PDI-057SC-B-00-02-191023 19.01, Description: PDI-057SC-B-00-02-191023

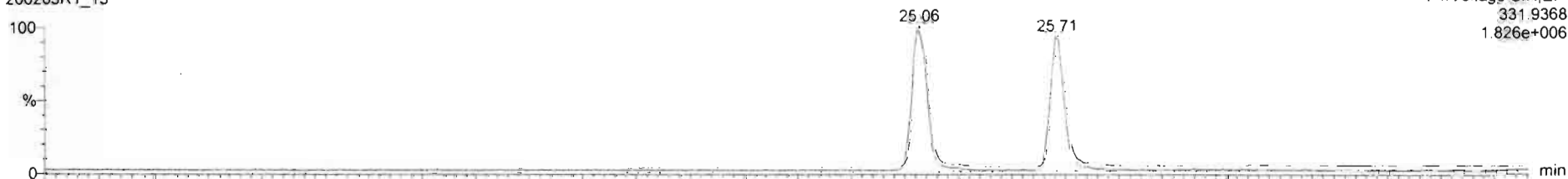
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200203R1_13

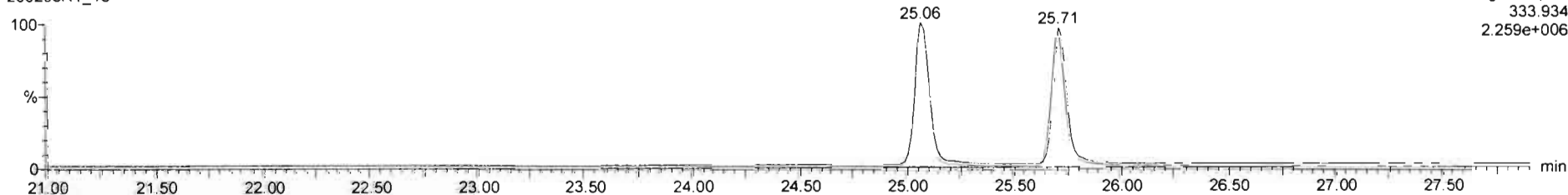


13C-1,2,3,4-TCDD

200203R1_13



200203R1_13



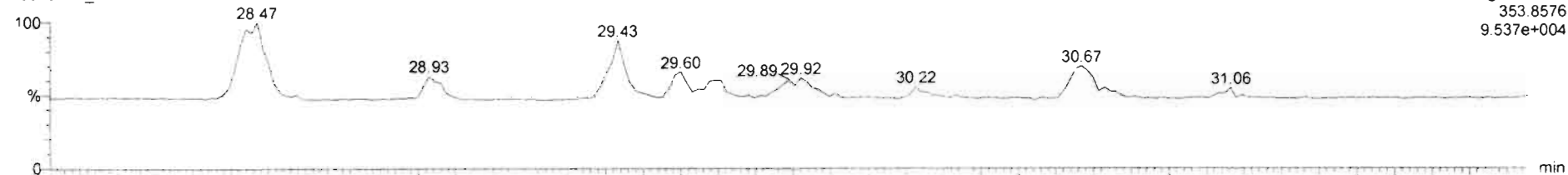
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Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

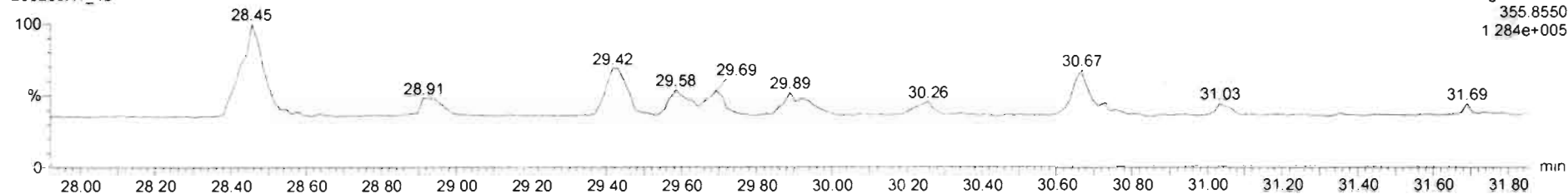
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1,2,3,7,8-PeCDD

200203R1_13

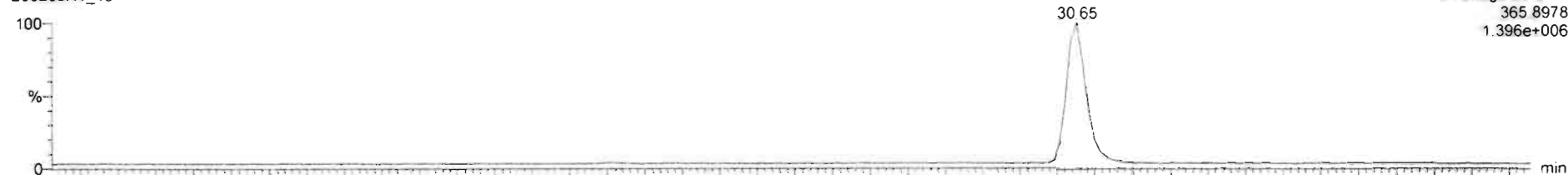


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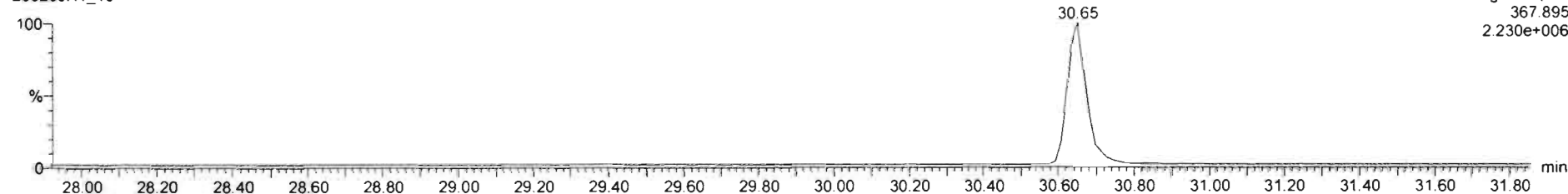


13C-1,2,3,7,8-PeCDD

200203R1_13



200203R1_13



Dataset: Untitled

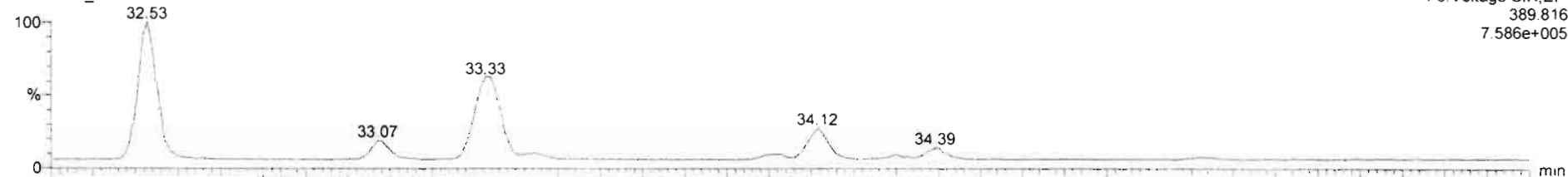
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Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

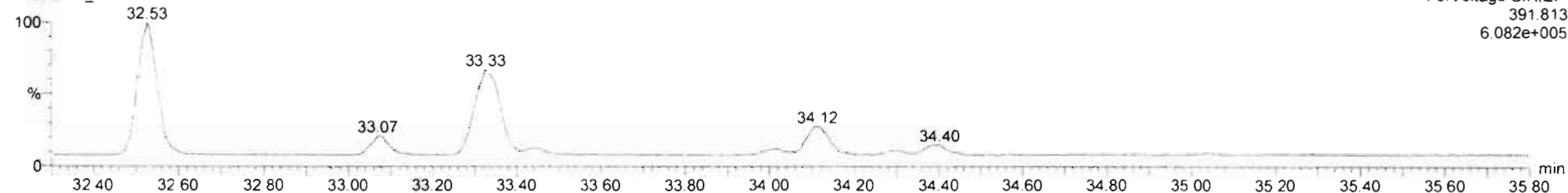
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1,2,3,4,7,8-HxCDD

200203R1_13

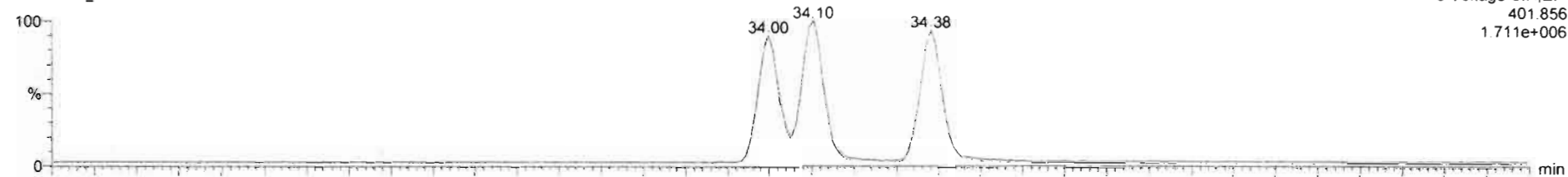


200203R1_13

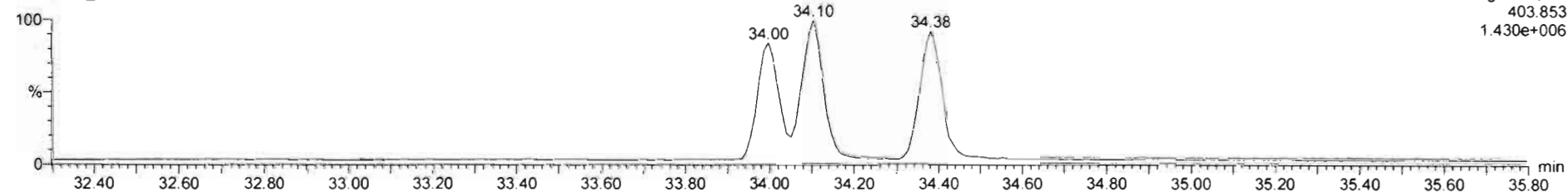


13C-1,2,3,4,7,8-HxCDD

200203R1_13



200203R1_13



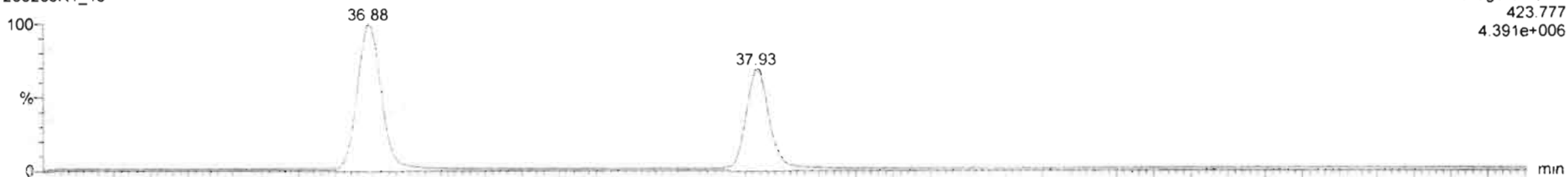
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Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

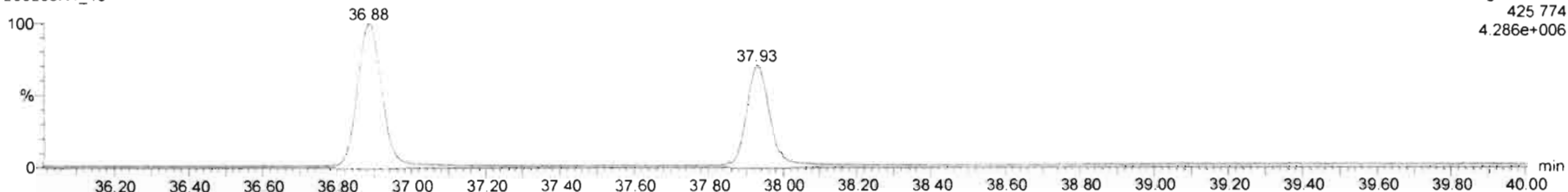
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1,2,3,4,6,7,8-HpCDD

200203R1_13

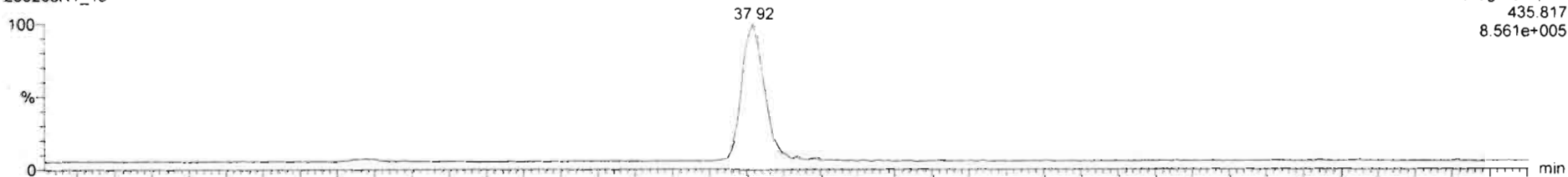


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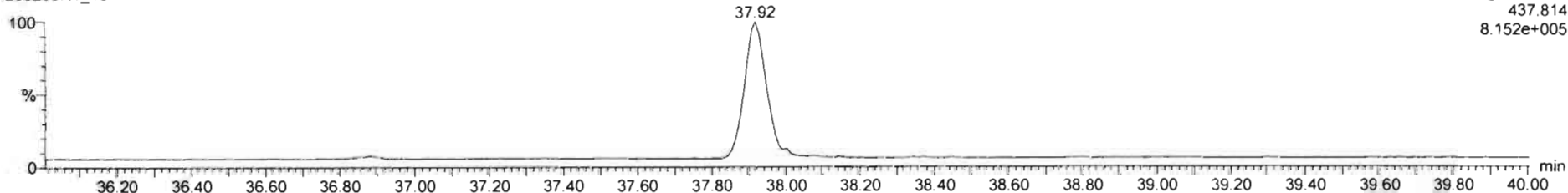


13C-1,2,3,4,6,7,8-HpCDD

200203R1_13



200203R1_13



Dataset: Untitled

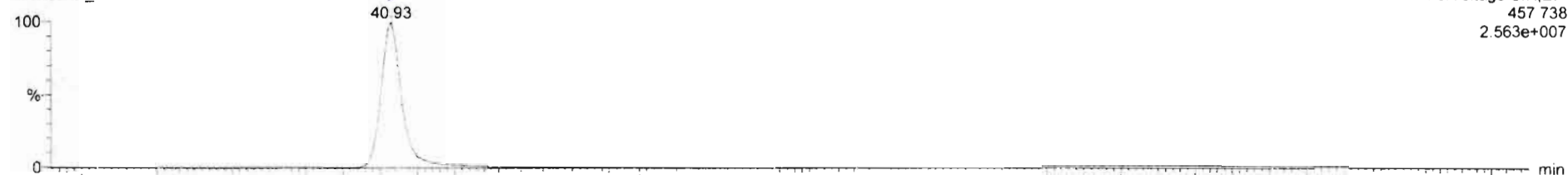
Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time

Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

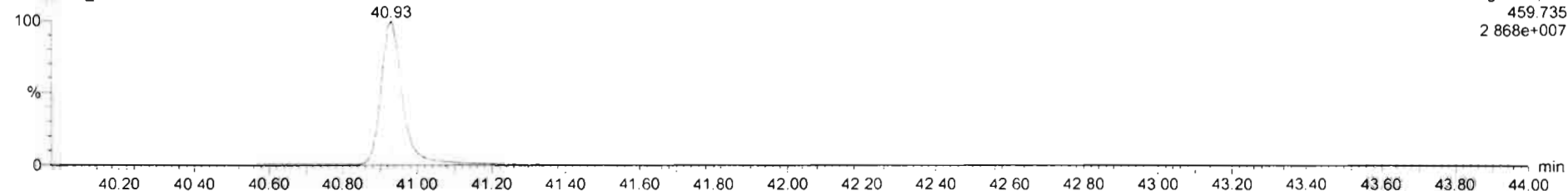
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OCDD

200203R1_13

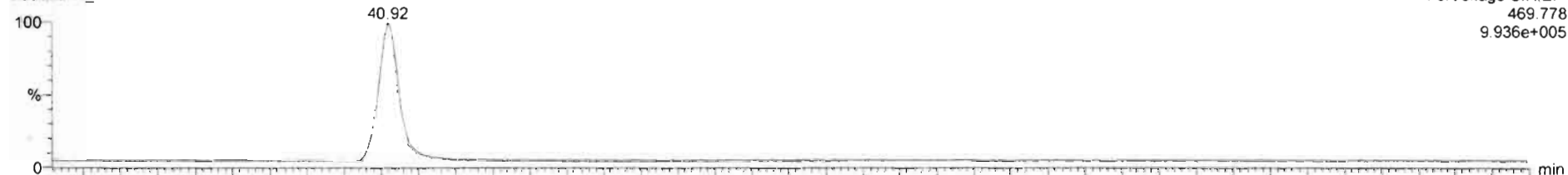


200203R1_13

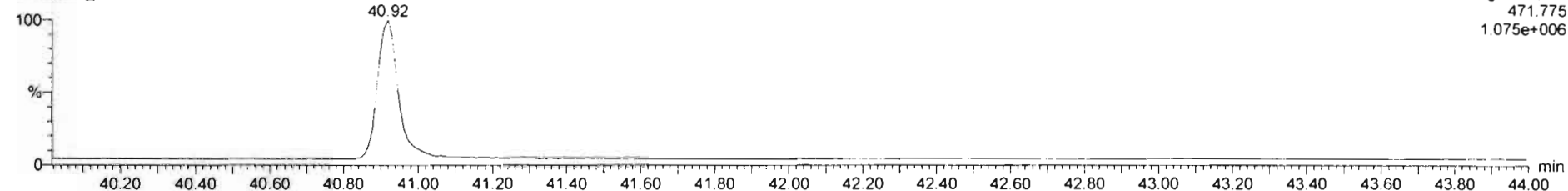


13C-OCDD

200203R1_13

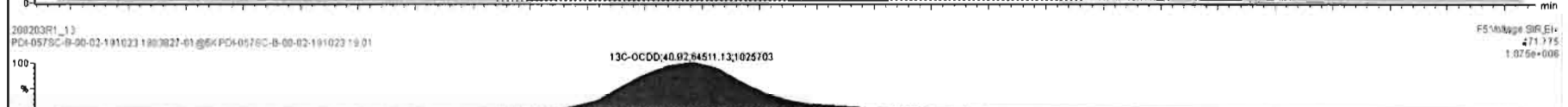
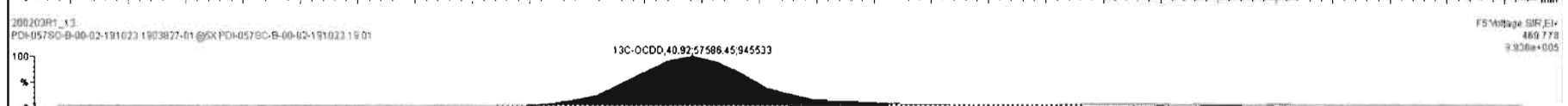
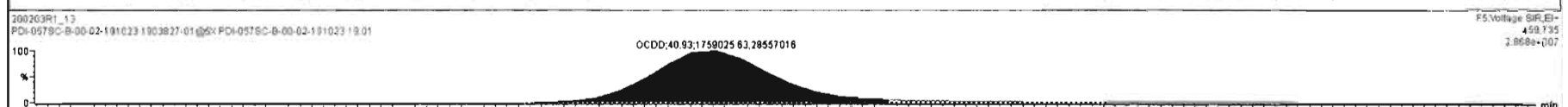
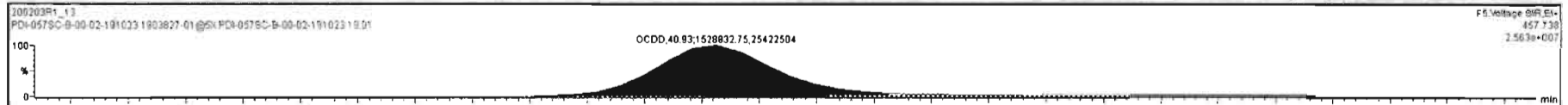


200203R1_13



#	Name	Conc	DL	%Rec	EMPC	Abs Resp	RF	RT	Q	RF	RA	Y/N	RF1	Acq Date	Acq Time	1% Chk Notes	ID	Sample Text	Factor1	SW	Cal File
1	2,3,7,8-TCDD	2.54988	0.441		2.54988	3.498e3	0.988	26.75	1	18	0.724	NO	1.002	03-Feb-20	21:26:43	1318.086	1903827-01...	POI-057SC-B-00...	0.0	10.1	db5_1...
2	1,2,3,7,8-PeCDD	4.24370	0.385		4.24370	4.320e3	0.972	30.87	2	19	0.872	NO	1.000	03-Feb-20	21:26:43	1057.826	1903827-01...	POI-057SC-B-00...	0.0	10.1	db5_1...
3	1,2,3,4,7,8-HxCDD	3.70922	0.893		3.70922	3.084e3	1.071	34.02	3	20	1.143	NO	1.001	03-Feb-20	21:26:43	2043.597	1903827-01...	POI-057SC-B-00...	0.0	10.1	db5_1...
4	1,2,3,6,7,8-HxCDD	20.0171	0.824		20.0171	1.874e4	0.921	34.12	4	21	1.192	NO	1.000	03-Feb-20	21:26:43	2043.597	1903827-01...	POI-057SC-B-00...	0.0	10.1	db5_1...
5	1,2,3,7,8,9-HxCDD	8.00471	0.987		8.00471	6.233e3	0.918	34.39	5	22	1.195	NO	1.000	03-Feb-20	21:26:43	2043.597	1903827-01...	POI-057SC-B-00...	0.0	10.1	db5_1...
6	1,2,3,4,6,7,8-HpCDD	802.808	4.78		802.808	4.137e5	0.923	37.93	6	23	1.002	NO	1.000	03-Feb-20	21:26:43	5852.076	1903827-01...	POI-057SC-B-00...	0.0	10.1	db5_1...
7	OCDD	10842.2	3.78		10842.2	3.288e5	0.875	40.93	7	24	0.869	NO	1.000	03-Feb-20	21:26:43	3598.832	1903827-01...	POI-057SC-B-00...	0.0	10.1	db5_1...
8	2,3,7,8-TCDF	250.551	0.872		250.551	3.580e5	0.800	24.85	8	25	0.738	NO	1.001	03-Feb-20	21:26:43	2531.530	1903827-01...	POI-057SC-B-00...	0.0	10.1	db5_1...

#	Name	RT	w1	Hdght	w2	Hdght	w1	Resp	RA	n/N	Resp	Conc	EMPC
1													



Dataset: Untitled

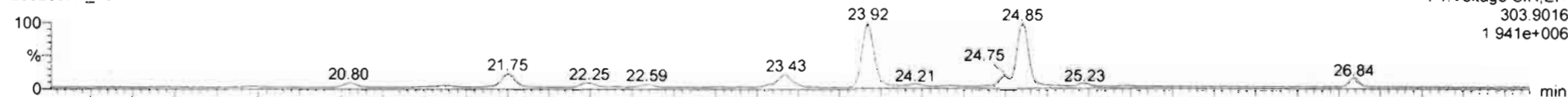
Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time

Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

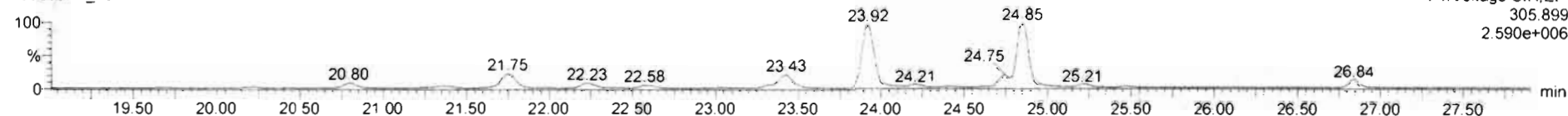
Name: 200203R1_13, Date: 03-Feb-2020, Time: 21:26:43, ID: 1903827-01@5X PDI-057SC-B-00-02-191023 19.01, Description: PDI-057SC-B-00-02-191023

2,3,7,8-TCDF

200203R1_13



200203R1_13

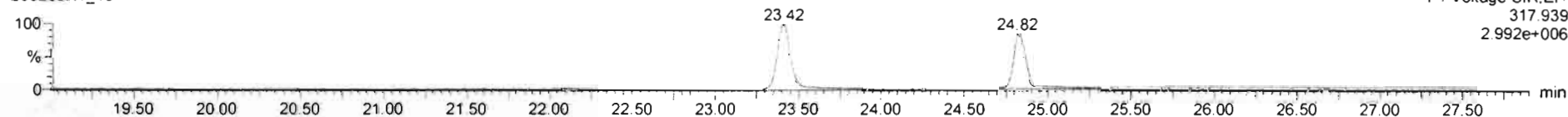


13C-2,3,7,8-TCDF

200203R1_13

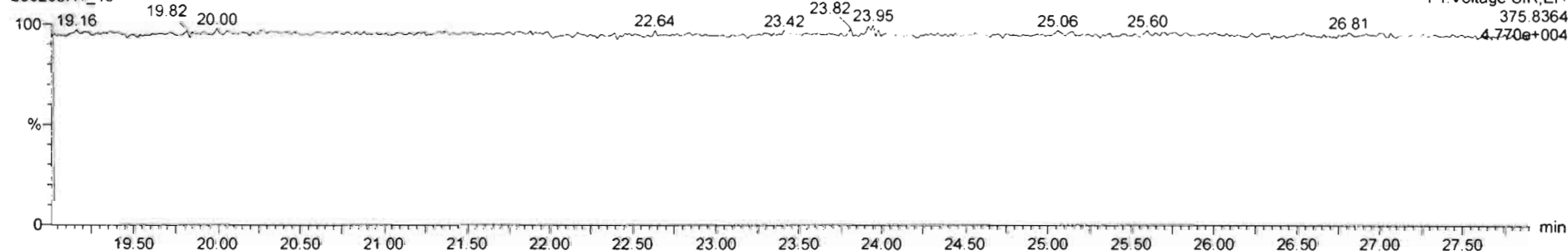


200203R1_13



DPE1

200203R1_13



Dataset: Untitled

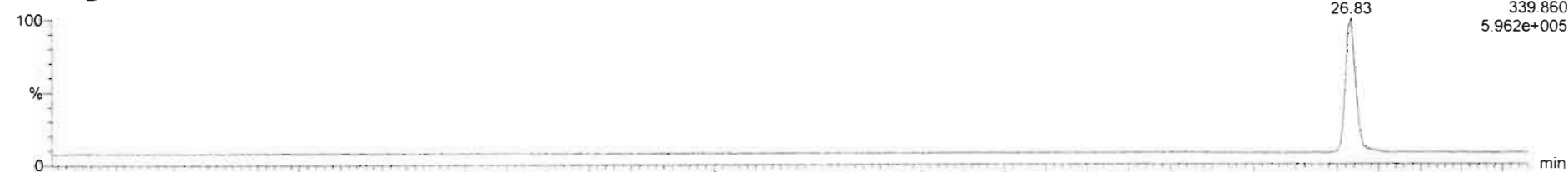
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Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

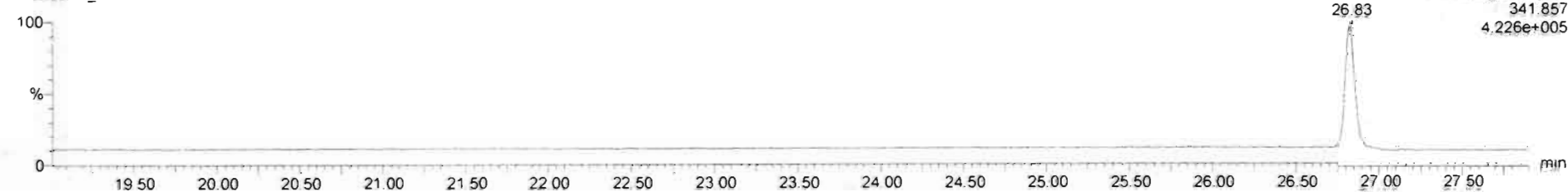
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200203R1_13

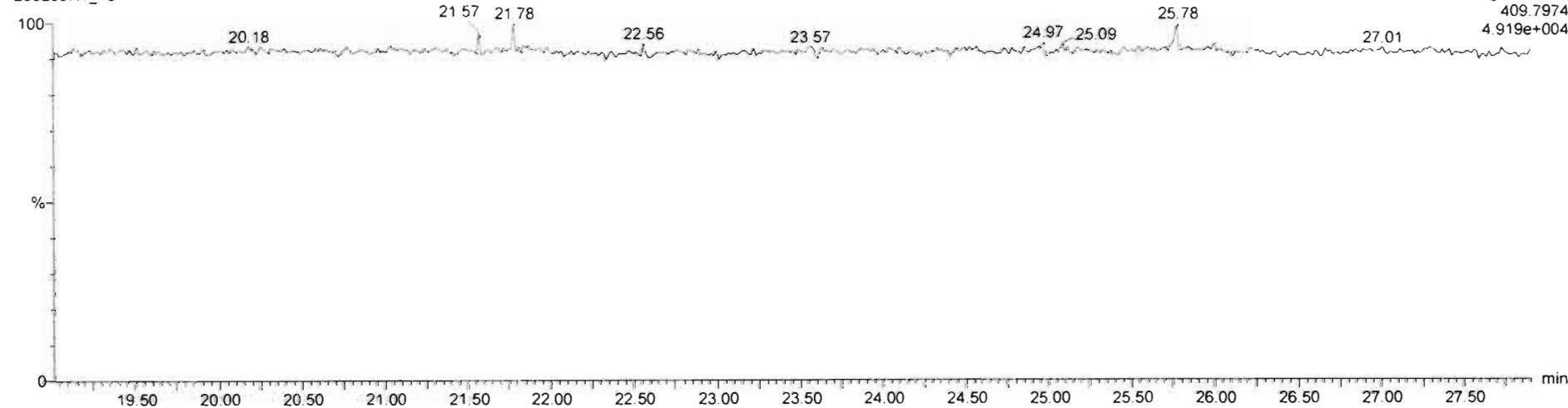


200203R1_13



DPE6

200203R1_13



Dataset: Untitled

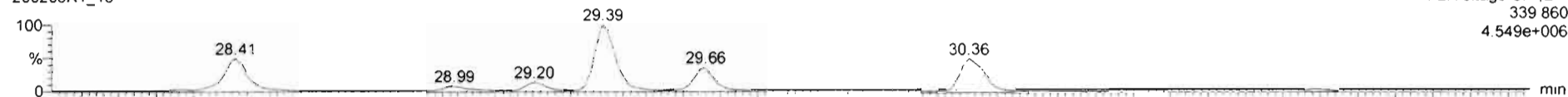
Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time

Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

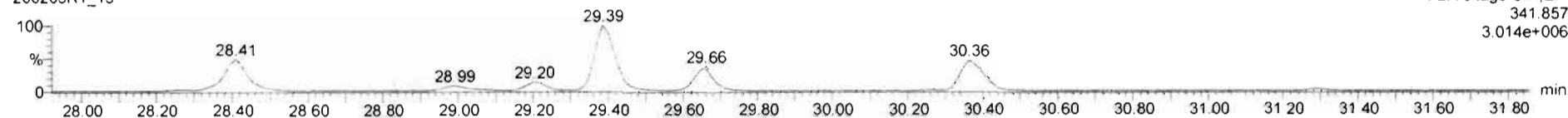
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1,2,3,7,8-PeCDF

200203R1_13



200203R1_13

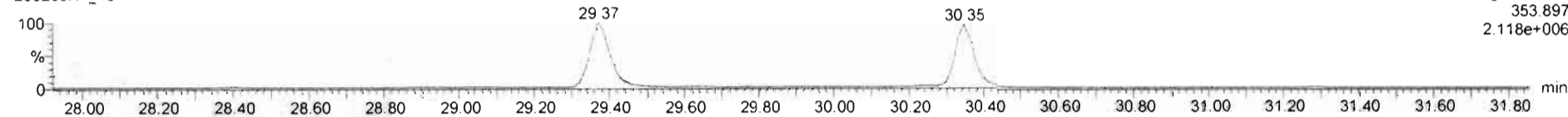


13C-1,2,3,7,8-PeCDF

200203R1_13

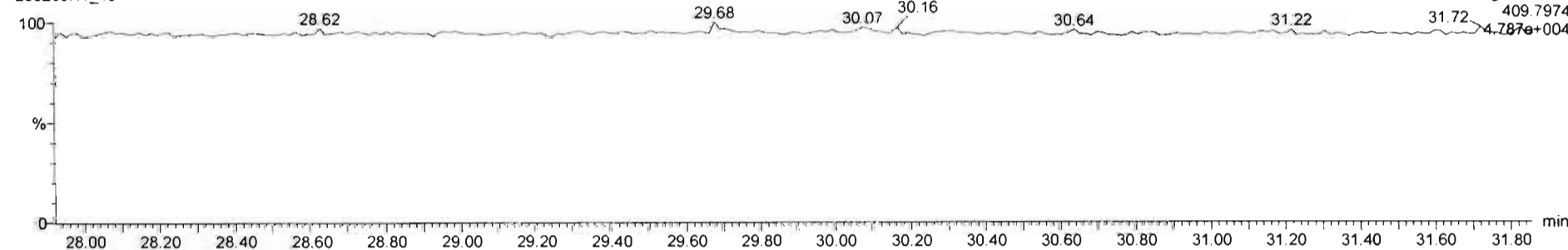


200203R1_13



DPE2

200203R1_13



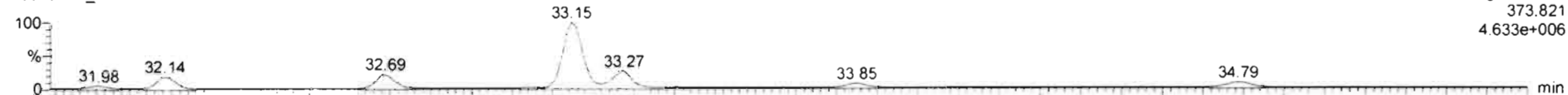
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Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

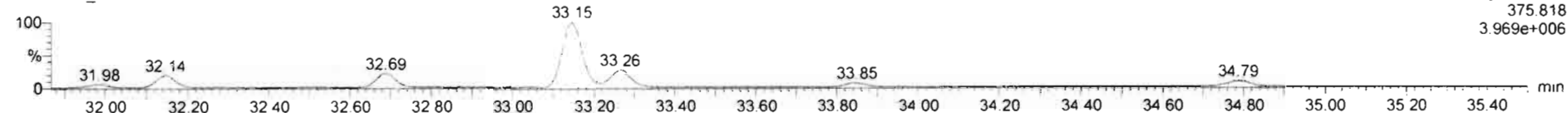
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1,2,3,4,7,8-HxCDF

200203R1_13

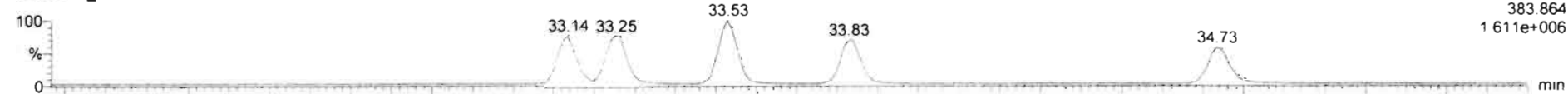


200203R1_13

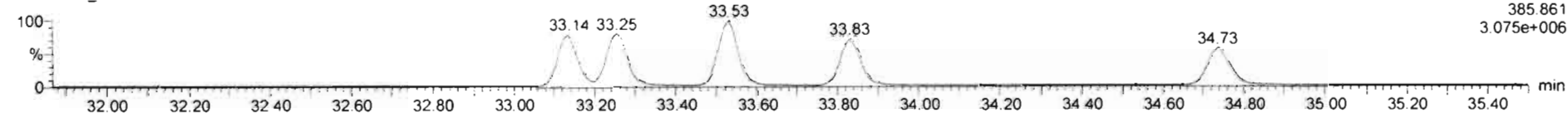


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200203R1_13

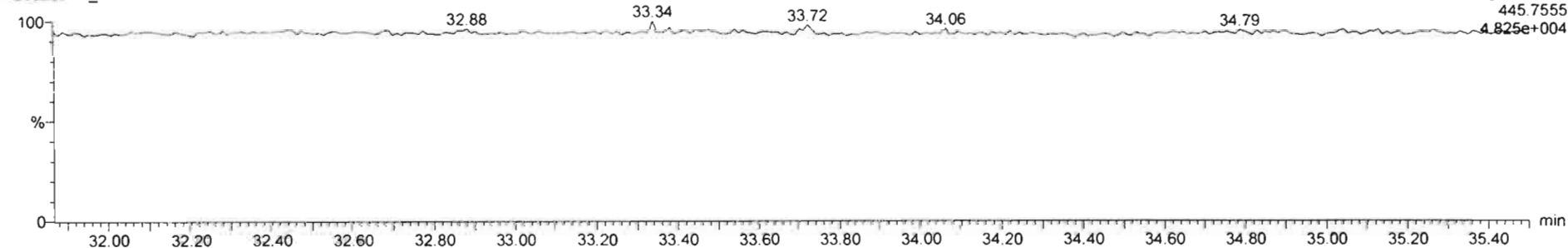


200203R1_13



DPE3

200203R1_13



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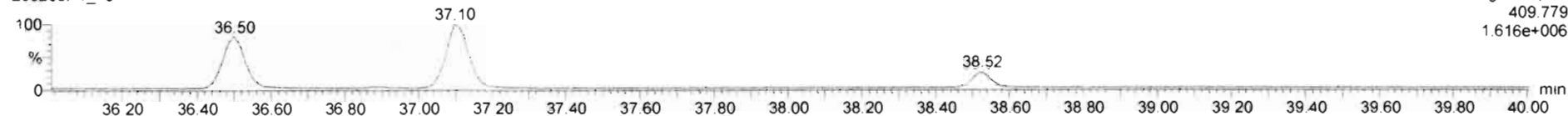
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1,2,3,4,6,7,8-HpCDF

200203R1_13



200203R1_13

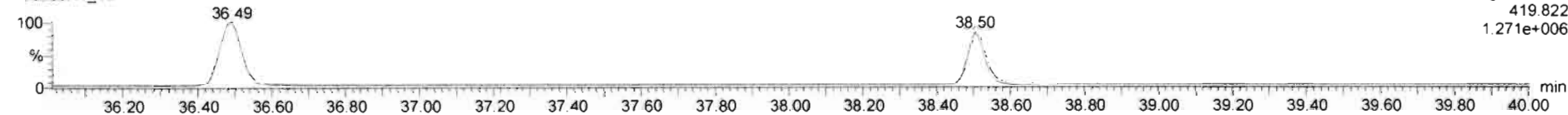


13C-1,2,3,4,6,7,8-HpCDF

200203R1_13

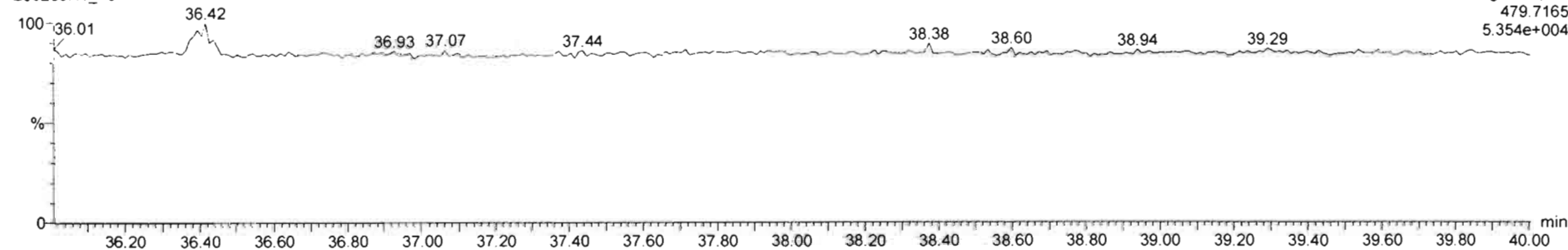


200203R1_13



DPE4

200203R1_13

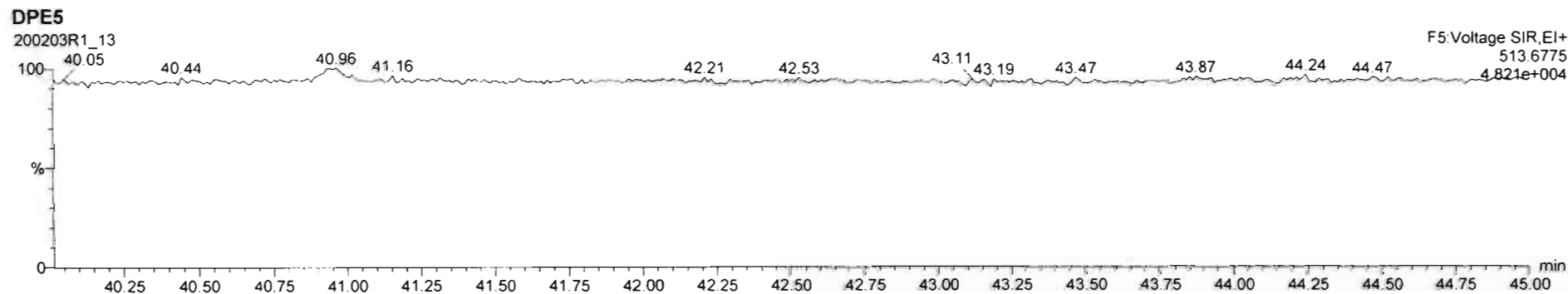
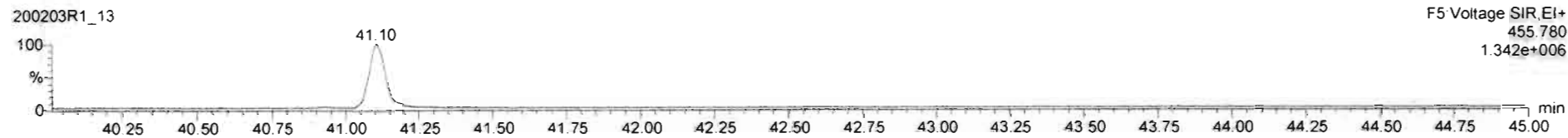
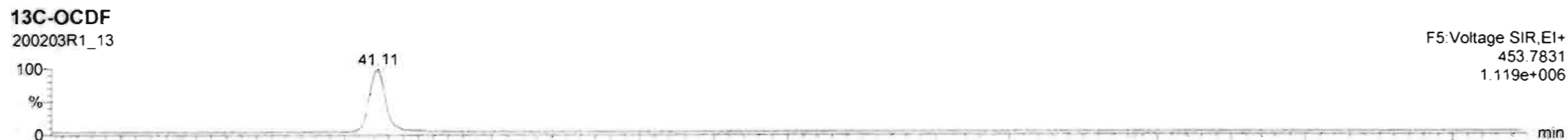
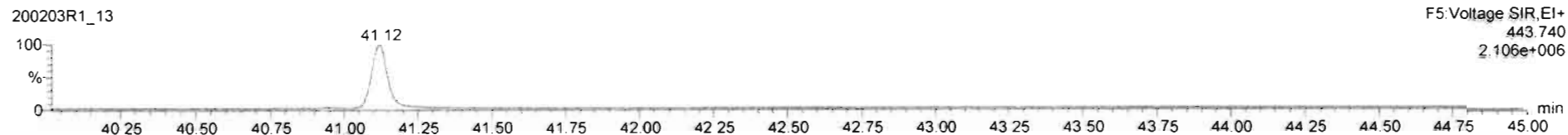


Dataset: Untitled

Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time

Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

Name: 200203R1_13, Date: 03-Feb-2020, Time: 21:26:43, ID: 1903827-01@5X PDI-057SC-B-00-02-191023 19.01, Description: PDI-057SC-B-00-02-191023

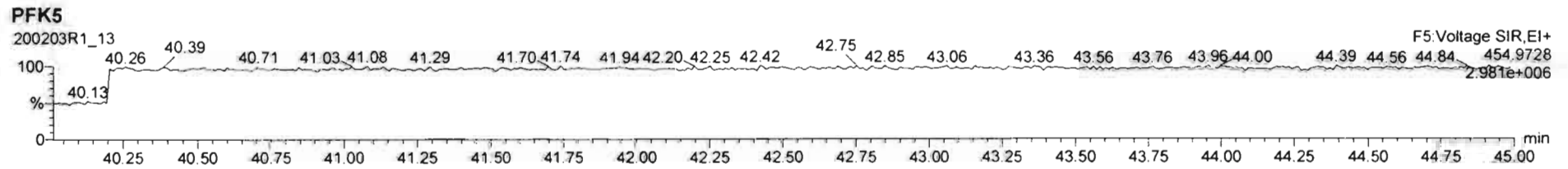
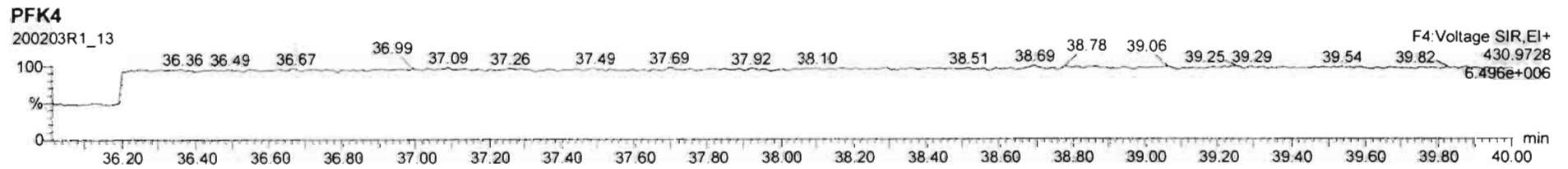
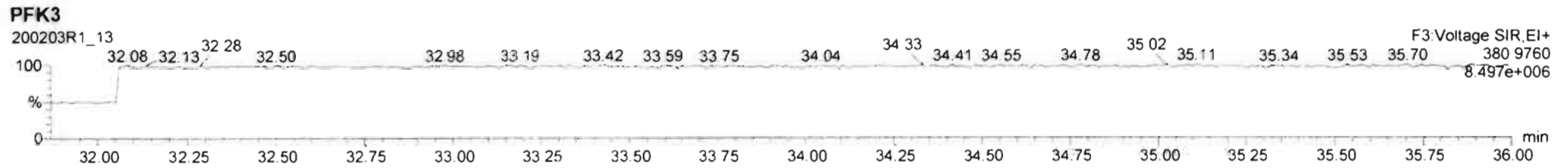
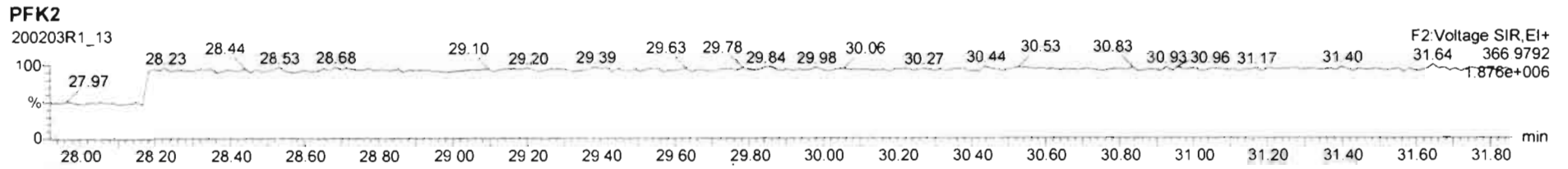
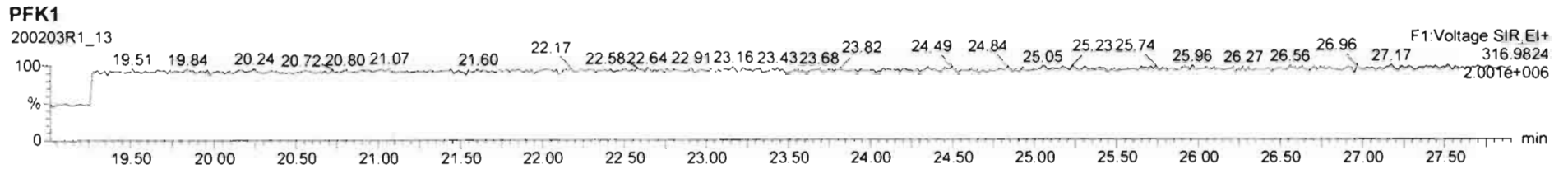


Dataset: Untitled

Last Altered: Tuesday, February 04, 2020 10:33:39 Pacific Standard Time

Printed: Tuesday, February 04, 2020 10:33:41 Pacific Standard Time

Name: 200203R1_13, Date: 03-Feb-2020, Time: 21:26:43, ID: 1903827-01@5X PDI-057SC-B-00-02-191023 19.01, Description: PDI-057SC-B-00-02-191023



Dataset: U:\VG12.PRO\Results\200202R2\200202R2-7.qld

Last Altered: Tuesday, February 11, 2020 4:13:23 PM Pacific Standard Time
Printed: Tuesday, February 11, 2020 4:16:39 PM Pacific Standard Time

Hc 2-11-2020 *CT 02/14/2020*

Method: Untitled 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R2_7, Date: 03-Feb-2020, Time: 02:59:07, ID: 1903827-02 PDI-057SC-B-02-04-191023 18.69, Description: PDI-057SC-B-02-04-191023

#	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	0.988	10.109	25.722		1.001				0.222	
2	2 1,2,3,7,8-PeCDD			NO	0.972	10.109	30.657		1.001				0.331	
3	3 1,2,3,4,7,8-HxCDD	1.62e3	1.41	NO	1.07	10.109	33.987	34.00	1.000	1.001	0.96714		0.447	0.967
4	4 1,2,3,6,7,8-HxCDD	1.45e4	1.13	NO	0.921	10.109	34.083	34.09	1.000	1.000	8.5350		0.453	8.53
5	5 1,2,3,7,8,9-HxCDD	4.00e3	1.17	NO	0.918	10.109	34.405	34.38	1.001	1.000	2.4977		0.506	2.50
6	6 1,2,3,4,6,7,8-HpCDD	6.84e5	1.01	NO	0.923	10.109	37.918	37.92	1.000	1.000	511.56		2.09	512
7	7 OCDD	4.47e6	0.88	NO	0.975	10.109	40.910	40.92	1.000	1.000	3816.1		1.18	3820
8	8 2,3,7,8-TCDF	3.57e4	0.79	NO	0.802	10.109	24.832	24.82	1.001	1.001	13.472 (3.0)		0.216	13.5
9	9 1,2,3,7,8-PeCDF	5.81e4	1.52	NO	0.907	10.109	29.376	29.37	1.001	1.001	20.872		0.272	20.9
10	10 2,3,4,7,8-PeCDF	2.35e4	1.63	NO	0.952	10.109	30.349	30.35	1.001	1.001	8.0012		0.252	8.00
11	11 1,2,3,4,7,8-HxCDF	5.35e4	1.19	NO	0.862	10.109	33.114	33.14	1.000	1.001	30.812		0.305	30.8
12	12 1,2,3,6,7,8-HxCDF	1.46e4	1.20	NO	0.841	10.109	33.252	33.25	1.000	1.000	8.0291		0.295	8.03
13	13 2,3,4,6,7,8-HxCDF	4.48e3	1.18	NO	0.898	10.109	33.851	33.84	1.001	1.001	2.5549		0.303	2.55
14	14 1,2,3,7,8,9-HxCDF	9.69e2	1.24	NO	0.858	10.109	34.722	34.74	1.000	1.001	0.65380		0.405	0.654
15	15 1,2,3,4,6,7,8-HpCDF	4.45e4	0.96	NO	0.851	10.109	36.505	36.48	1.001	1.000	36.410		0.652	36.4
16	16 1,2,3,4,7,8,9-HpCDF	6.46e3	1.01	NO	0.980	10.109	38.503	38.51	1.000	1.000	6.1961		0.680	6.20
17	17 OCDF	1.77e5	0.85	NO	0.806	10.109	41.102	41.11	1.000	1.000	168.50		0.482	169
18	18 13C-2,3,7,8-TCDD	4.78e5	0.79	NO	1.20	10.109	25.691	25.69	1.026	1.026	53.101	26.8	0.134	
19	19 13C-1,2,3,7,8-PeCDD	3.90e5	0.63	NO	0.967	10.109	30.432	30.64	1.215	1.223	53.748	27.2	0.131	
20	20 13C-1,2,3,4,7,8-HxCDD	3.10e5	1.28	NO	0.874	10.109	33.988	33.98	1.014	1.014	48.737	24.6	0.211	
21	21 13C-1,2,3,6,7,8-HxCDD	3.64e5	1.25	NO	1.05	10.109	34.089	34.08	1.017	1.017	47.933	24.2	0.177	
22	22 13C-1,2,3,7,8,9-HxCDD	3.45e5	1.24	NO	0.974	10.109	34.390	34.37	1.026	1.025	48.708	24.6	0.190	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.87e5	1.05	NO	0.747	10.109	37.944	37.91	1.132	1.131	52.781	26.7	0.260	
24	24 13C-OCDD	4.75e5	0.88	NO	0.707	10.109	40.826	40.91	1.218	1.221	92.564	23.4	0.181	
25	25 13C-2,3,7,8-TCDF	6.53e5	0.78	NO	1.07	10.109	24.872	24.81	0.993	0.990	50.098	25.3	0.196	
26	26 13C-1,2,3,7,8-PeCDF	6.07e5	1.55	NO	1.00	10.109	29.205	29.35	1.166	1.172	49.496	25.0	0.274	
27	27 13C-2,3,4,7,8-PeCDF	6.12e5	1.58	NO	0.962	10.109	30.157	30.33	1.204	1.211	51.964	26.3	0.286	
28	28 13C-1,2,3,4,7,8-HxCDF	3.98e5	0.51	NO	1.05	10.109	33.117	33.11	0.988	0.988	52.221	26.4	0.214	
29	29 13C-1,2,3,6,7,8-HxCDF	4.27e5	0.51	NO	1.19	10.109	33.217	33.24	0.991	0.992	49.399	25.0	0.188	
30	30 13C-2,3,4,6,7,8-HxCDF	3.86e5	0.51	NO	1.07	10.109	33.824	33.82	1.009	1.009	49.853	25.2	0.210	
31	31 13C-1,2,3,7,8,9-HxCDF	3.42e5	0.53	NO	0.922	10.109	34.726	34.72	1.036	1.036	50.988	25.8	0.243	

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-7.qld

Last Altered: Tuesday, February 11, 2020 4:13:23 PM Pacific Standard Time
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Name: 200202R2_7, Date: 03-Feb-2020, Time: 02:59:07, ID: 1903827-02 PDI-057SC-B-02-04-191023 18.69, Description: PDI-057SC-B-02-04-191023

#	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	2.84e5	0.44	NO	0.767	10.109	36.469	36.47	1.088	1.088	50.978	25.8	0.246	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.11e5	0.45	NO	0.552	10.109	38.480	38.50	1.148	1.149	52.440	26.5	0.342	
34	34 13C-OCDF	5.15e5	0.88	NO	0.789	10.109	41.061	41.10	1.225	1.226	89.798	22.7	0.157	
35	35 37C-2,3,7,8-TCDD	6.86e5			1.18	10.109	25.723	25.70	1.027	1.026	77.601	98.1	0.0509	
36	36 13C-1,2,3,4-TCDD	1.49e6	0.80	NO	1.00	10.109	25.080	25.05	1.000	1.000	197.85	100	0.160	
37	37 13C-1,2,3,4-TCDF	2.42e6	0.78	NO	1.00	10.109	23.420	23.39	1.000	1.000	197.85	100	0.209	
38	38 13C-1,2,3,4,6,9-HxCDF	1.44e6	0.50	NO	1.00	10.109	33.520	33.52	1.000	1.000	197.85	100	0.224	
39	39 Total Tetra-Dioxins				0.988	10.109	24.620		0.000		2.0627		0.222	2.06
40	40 Total Penta-Dioxins				0.972	10.109	29.960		0.000		2.7282		0.331	5.16
41	41 Total Hexa-Dioxins				0.921	10.109	33.635		0.000		120.00		0.491	120
42	42 Total Hepta-Dioxins				0.923	10.109	37.640		0.000		1182.7		2.09	1180
43	43 Total Tetra-Furans				0.802	10.109	23.610		0.000		38.700		0.216	42.9
44	44 1st Func. Penta-Furans				0.907	10.109	27.090		0.000		4.9344		0.0957	4.93
45	45 Total Penta-Furans				0.907	10.109	29.275		0.000		55.690		0.268	56.5
46	46 Total Hexa-Furans				0.898	10.109	33.555		0.000		74.615		0.311	74.6
47	47 Total Hepta-Furans				0.851	10.109	37.835		0.000		169.05		0.708	169

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Method: Untitled 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R2_7, Date: 03-Feb-2020, Time: 02:59:07, ID: 1903827-02 PDI-057SC-B-02-04-191023 18.69, Description: PDI-057SC-B-02-04-191023

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.74	2.227e4	2.509e4	2.163e3	2.764e3	0.78	NO	4.927e3	2.0627	2.0627	0.222

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.42	2.018e4	3.369e4	1.308e3	1.965e3	0.67	NO	3.274e3	1.7060	1.7060	0.331
2	Total Penta-Dioxins	28.90	8.475e3	1.175e4	4.409e2	6.757e2	0.65	NO	1.117e3	0.58189	0.58189	0.331
3	Total Penta-Dioxins	29.40	1.643e4	1.935e4	7.699e2	1.055e3	0.73	YES	0.000e0	0.00000	0.89591	0.331
4	Total Penta-Dioxins	29.57	5.444e3	1.267e4	3.396e2	5.053e2	0.67	NO	8.449e2	0.44030	0.44030	0.331
5	Total Penta-Dioxins	29.67	3.783e3	9.260e3	2.255e2	4.401e2	0.51	YES	0.000e0	0.00000	0.30407	0.331
6	Total Penta-Dioxins	29.89	1.548e4	1.942e4	9.539e2	1.408e3	0.68	NO	0.000e0	0.00000	1.2310	0.331

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	9.569e5	8.037e5	4.613e4	3.704e4	1.25	NO	8.317e4	52.591	52.591	0.491
2	Total Hexa-Dioxins	33.06	8.133e4	7.376e4	4.213e3	3.711e3	1.14	NO	7.924e3	5.0103	5.0103	0.491
3	Total Hexa-Dioxins	33.32	5.585e5	4.829e5	3.827e4	3.179e4	1.20	NO	7.006e4	44.299	44.299	0.491
4	Total Hexa-Dioxins	33.43	5.622e4	4.793e4	3.057e3	2.646e3	1.16	NO	5.703e3	3.6061	3.6061	0.491
5	1,2,3,4,7,8-HxCDD	34.00	2.042e4	1.540e4	9.471e2	6.736e2	1.41	NO	1.621e3	0.96714	0.96714	0.447
6	1,2,3,6,7,8-HxCDD	34.09	1.357e5	1.344e5	7.690e3	6.790e3	1.13	NO	1.448e4	8.5350	8.5350	0.453
7	Total Hexa-Dioxins	34.28	4.604e4	2.980e4	2.231e3	1.715e3	1.30	NO	3.946e3	2.4949	2.4949	0.491
8	1,2,3,7,8,9-HxCDD	34.38	4.266e4	3.229e4	2.157e3	1.843e3	1.17	NO	3.999e3	2.4977	2.4977	0.506

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.87	6.998e6	6.951e6	4.485e5	4.493e5	1.00	NO	8.978e5	671.15	671.15	2.09
2	1,2,3,4,6,7,8-HpCDD	37.92	5.229e6	5.097e6	3.442e5	3.401e5	1.01	NO	6.843e5	511.56	511.56	2.09

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Name: 200202R2_7, Date: 03-Feb-2020, Time: 02:59:07, ID: 1903827-02 PDI-057SC-B-02-04-191023 18.69, Description: PDI-057SC-B-02-04-191023

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.18	4.324e3	9.280e3	3.406e2	5.388e2	0.63	YES	0.000e0	0.00000	0.29569	0.216
2	Total Tetra-Furans	20.78	2.010e4	2.659e4	1.716e3	2.437e3	0.70	NO	4.153e3	1.5685	1.5685	0.216
3	Total Tetra-Furans	21.33	8.071e3	9.329e3	7.389e2	7.513e2	0.98	YES	0.000e0	0.00000	0.50229	0.216
4	Total Tetra-Furans	21.72	4.822e4	6.009e4	4.537e3	5.370e3	0.84	NO	9.906e3	3.7416	3.7416	0.216
5	Total Tetra-Furans	22.19	2.408e4	2.993e4	2.034e3	2.564e3	0.79	NO	4.598e3	1.7368	1.7368	0.216
6	Total Tetra-Furans	22.56	8.299e3	7.601e3	7.284e2	8.012e2	0.91	YES	0.000e0	0.00000	0.53565	0.216
7	Total Tetra-Furans	23.31	1.611e4	2.406e4	1.098e3	1.717e3	0.64	YES	0.000e0	0.00000	0.95344	0.216
8	Total Tetra-Furans	23.40	2.139e4	2.924e4	1.865e3	2.530e3	0.74	NO	4.395e3	1.6599	1.6599	0.216
9	Total Tetra-Furans	23.89	1.869e5	2.609e5	1.523e4	2.098e4	0.73	NO	3.621e4	13.677	13.677	0.216
10	Total Tetra-Furans	24.21	9.444e3	1.242e4	6.399e2	8.860e2	0.72	NO	1.526e3	0.57633	0.57633	0.216
11	Total Tetra-Furans	24.72	2.495e4	3.372e4	1.809e3	2.446e3	0.74	NO	4.255e3	1.6070	1.6070	0.216
12	2,3,7,8-TCDF	24.82	2.157e5	2.621e5	1.577e4	1.990e4	0.79	NO	3.567e4	13.472	13.472	0.216
13	Total Tetra-Furans	25.21	1.103e4	1.423e4	7.909e2	9.567e2	0.83	NO	1.748e3	0.66010	0.66010	0.216
14	Total Tetra-Furans	26.81	4.183e4	4.068e4	2.917e3	2.808e3	1.04	YES	0.000e0	0.00000	1.8774	0.216

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	26.80	1.286e5	8.693e4	8.333e3	5.453e3	1.53	NO	1.379e4	4.9344	4.9344	0.0957

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.38	2.996e5	2.137e5	1.892e4	1.308e4	1.45	NO	3.199e4	11.451	11.451	0.268
2	Total Penta-Furans	28.96	3.356e4	2.185e4	2.140e3	1.248e3	1.71	NO	3.388e3	1.2125	1.2125	0.268
3	Total Penta-Furans	29.03	8.874e3	7.739e3	4.063e2	3.469e2	1.17	YES	0.000e0	0.00000	0.23922	0.268
4	Total Penta-Furans	29.19	8.743e4	5.115e4	4.069e3	2.733e3	1.49	NO	6.802e3	2.4347	2.4347	0.268
5	1,2,3,7,8-PeCDF	29.37	6.432e5	4.022e5	3.507e4	2.301e4	1.52	NO	5.808e4	20.872	20.872	0.272
6	Total Penta-Furans	29.63	2.159e5	1.591e5	1.175e4	8.273e3	1.42	NO	2.003e4	7.1680	7.1680	0.268
7	2,3,4,7,8-PeCDF	30.35	3.298e5	2.057e5	1.458e4	8.952e3	1.63	NO	2.354e4	8.0012	8.0012	0.252
8	Total Penta-Furans	30.36	2.594e5	1.592e5	7.812e3	4.902e3	1.59	NO	1.271e4	4.5507	4.5507	0.268
9	Total Penta-Furans	31.29	1.862e4	1.206e4	1.097e3	5.842e2	1.88	YES	0.000e0	0.00000	0.53317	0.268

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Name: 200202R2_7, Date: 03-Feb-2020, Time: 02:59:07, ID: 1903827-02 PDI-057SC-B-02-04-191023 18.69, Description: PDI-057SC-B-02-04-191023

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	31.96	3.521e4	3.621e4	1.732e3	1.470e3	1.18	NO	3.202e3	1.8153	1.8153	0.311
2	Total Hexa-Furans	32.12	1.479e5	1.261e5	7.195e3	6.119e3	1.18	NO	1.331e4	7.5488	7.5488	0.311
3	Total Hexa-Furans	32.68	3.952e5	3.311e5	1.846e4	1.588e4	1.16	NO	3.434e4	19.473	19.473	0.311
4	Total Hexa-Furans	33.04	9.007e3	9.843e3	4.440e2	3.709e2	1.20	NO	8.148e2	0.46202	0.46202	0.311
5	1,2,3,4,7,8-HxCDF	33.14	5.721e5	4.846e5	2.903e4	2.446e4	1.19	NO	5.349e4	30.812	30.812	0.305
6	1,2,3,6,7,8-HxCDF	33.25	1.409e5	1.250e5	7.958e3	6.632e3	1.20	NO	1.459e4	8.0291	8.0291	0.295
7	2,3,4,6,7,8-HxCDF	33.84	4.800e4	3.960e4	2.429e3	2.053e3	1.18	NO	4.482e3	2.5549	2.5549	0.303
8	1,2,3,7,8,9-HxCDF	34.74	2.735e4	2.147e4	5.370e2	4.322e2	1.24	NO	9.691e2	0.65380	0.65380	0.405
9	Total Hexa-Furans	34.78	5.986e4	5.388e4	3.113e3	2.648e3	1.18	NO	5.761e3	3.2664	3.2664	0.311

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	36.48	3.469e5	3.631e5	2.177e4	2.276e4	0.96	NO	4.453e4	36.410	36.410	0.652
2	Total Hepta-Furans	37.09	9.986e5	1.031e6	6.645e4	6.813e4	0.98	NO	1.346e5	126.44	126.44	0.708
3	1,2,3,4,7,8,9-HpCDF	38.51	5.705e4	5.893e4	3.239e3	3.222e3	1.01	NO	6.462e3	6.1961	6.1961	0.680

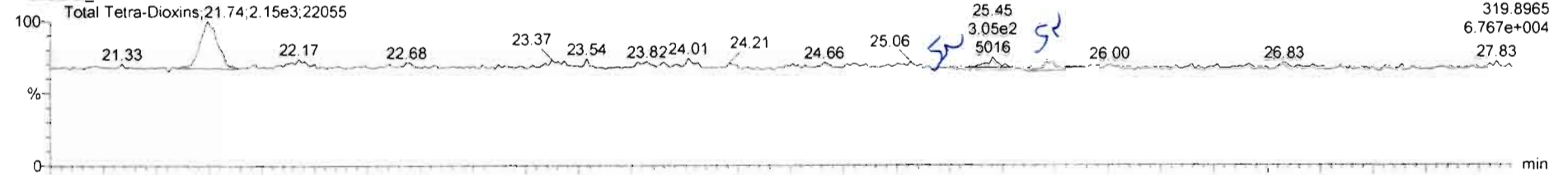
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Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time
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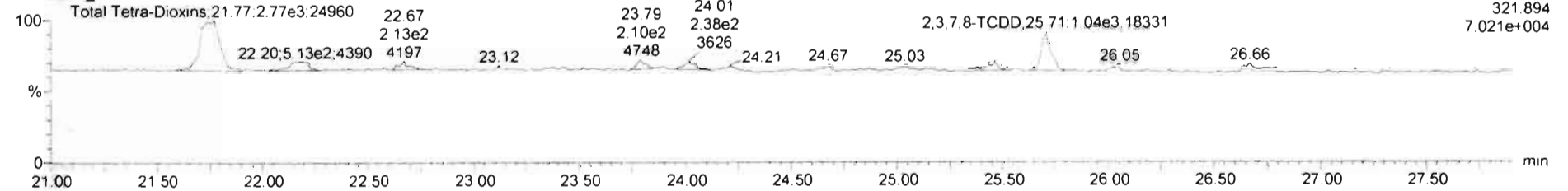
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2,3,7,8-TCDD

200202R2_7

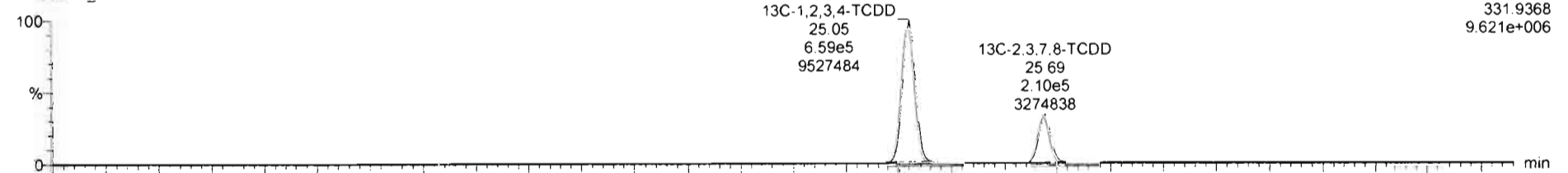


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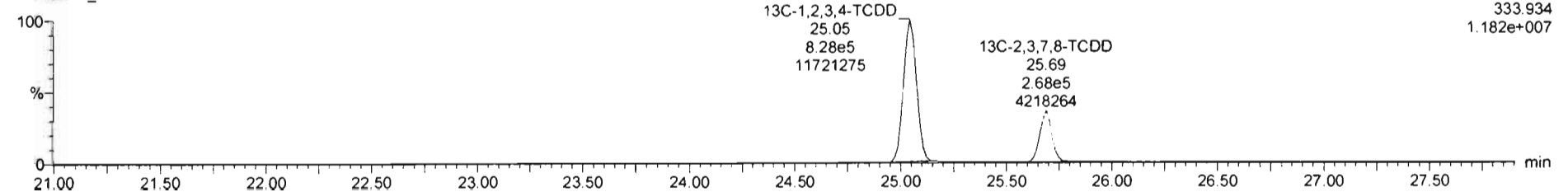


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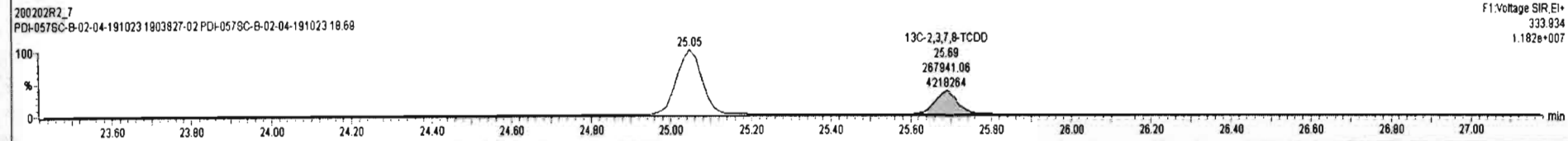
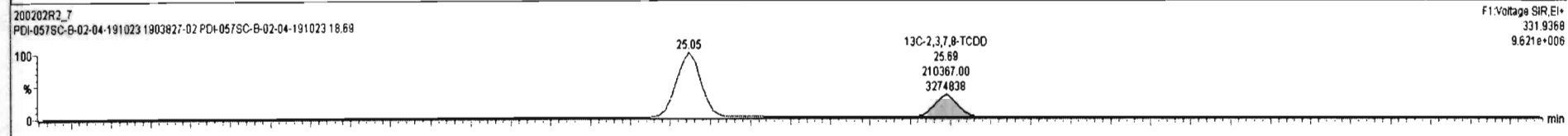
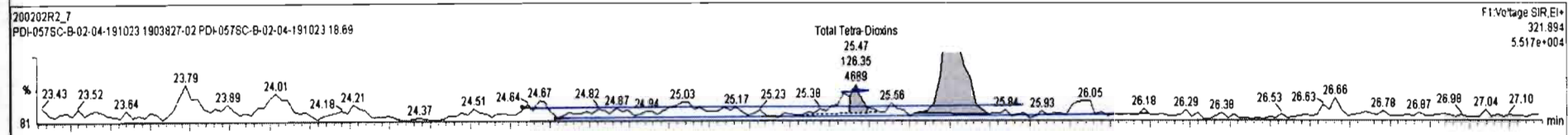
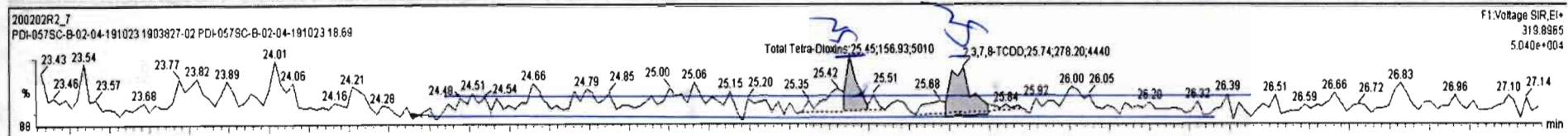


200202R2_7



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
32 13C-1,2,3,4,6,7,8-HpCDF	2.84e5	0.44	NO	0.7672	10.109	36.47	1.098	51.0	25.8	0.246	
33 13C-1,2,3,4,7,8,9-HpCDF	2.11e5	0.45	NO	0.5523	10.109	38.50	1.149	52.4	26.5	0.342	
34 13C-OCDF	5.15e5	0.88	NO	0.7894	10.109	41.10	1.226	89.8	22.7	0.157	
35 37Cl-2,3,7,8-TCDD	6.86e5			1.1763	10.109	25.70	1.026	77.5	98.1	0.0509	
36 13C-1,2,3,4-TCDD	1.49e6	0.80	NO	1.0000	10.109	25.05	1.000	198	100	0.180	
37 13C-1,2,3,4-TCDF	2.42e6	0.78	NO	1.0000	10.109	23.39	1.000	198	100	0.208	
38 13C-1,2,3,4,6,8-HxCDF	1.44e6	0.50	NO	1.0000	10.109	33.52	1.000	198	100	0.224	
39 Total Tetra-Dioxins				0.9861	10.109			2.06		0.222	2.42
40 Total Penta-Dioxins				0.9723	10.109			2.78		0.331	4.77
41 Total Hexa-Dioxins				0.9211	10.109			119		0.491	119
42 Total Hepta-Fluorine				0.9724	10.109			119		0.200	119

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	21.74	2.163e3	2.784e3	0.78	NO	2.0627	2.0627
2 Total Tetra-Dioxins	25.45	1.589e2	1.263e2	1.24	YES	0.083622	0.00000
3 2,3,7,8-TCDD	25.74	2.782e2	1.040e3	0.27	YES	0.26773	0.00000



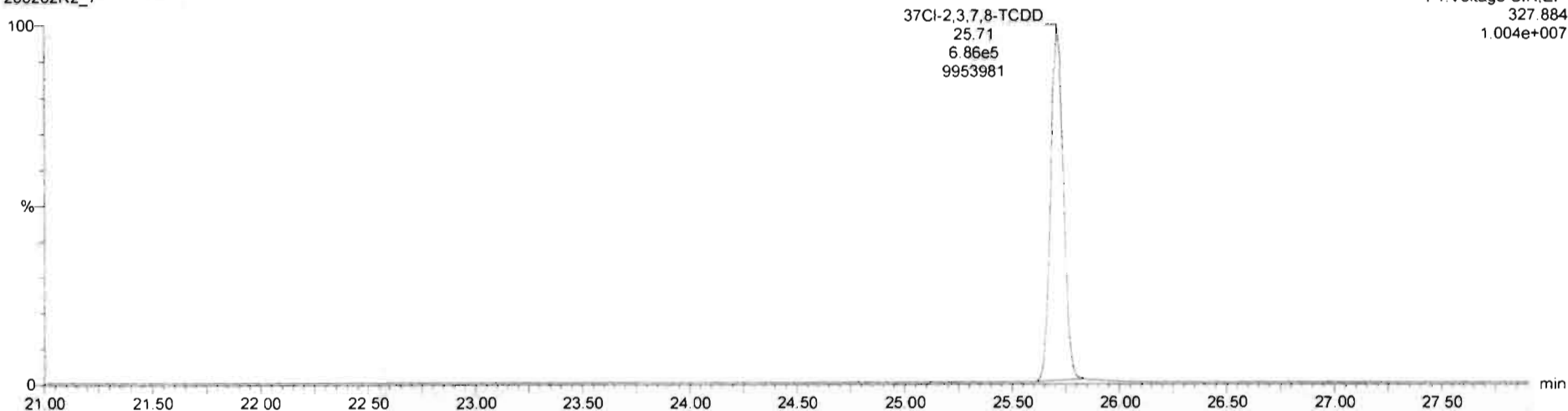
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Name: 200202R2_7, Date: 03-Feb-2020, Time: 02:59:07, ID: 1903827-02 PDI-057SC-B-02-04-191023 18.69, Description: PDI-057SC-B-02-04-191023

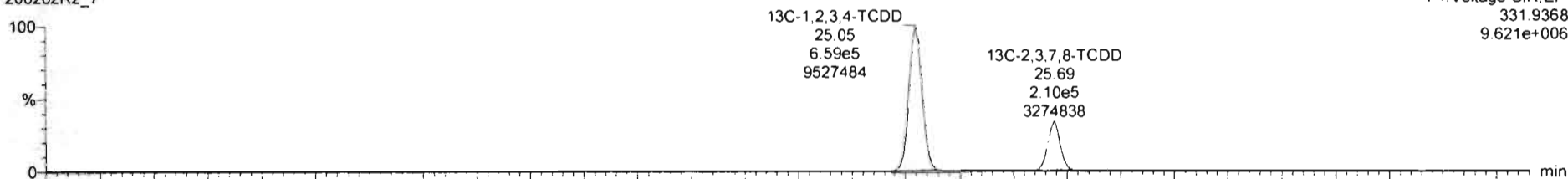
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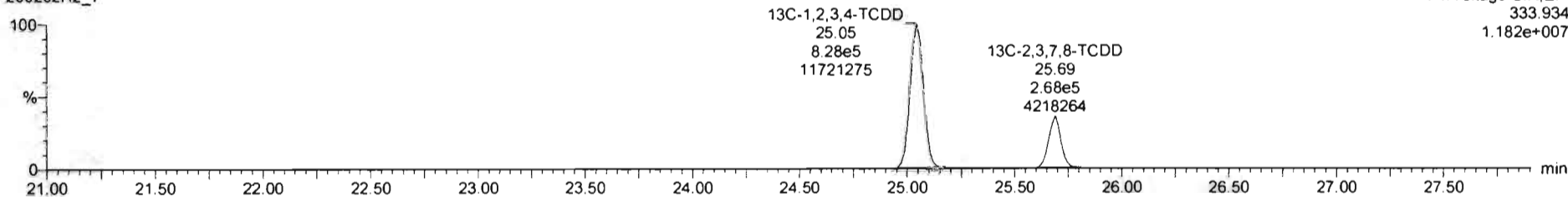


13C-1,2,3,4-TCDD

200202R2_7



200202R2_7



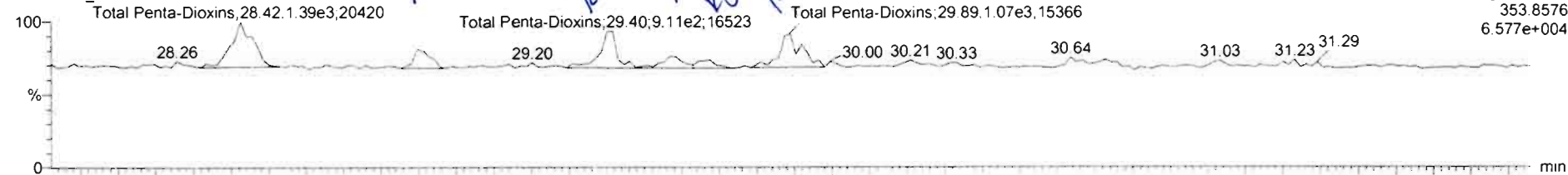
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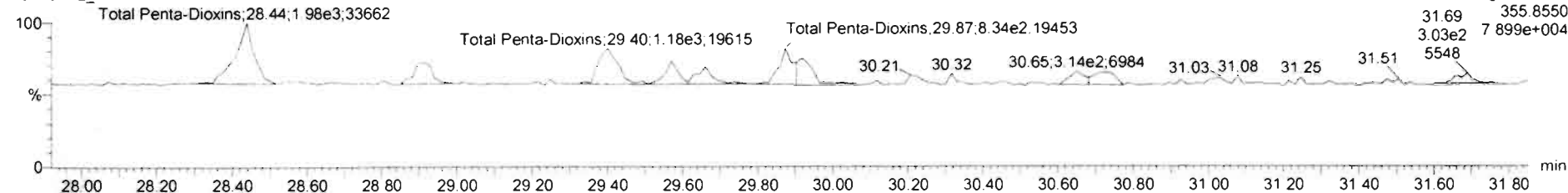
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1,2,3,7,8-PeCDD

200202R2_7

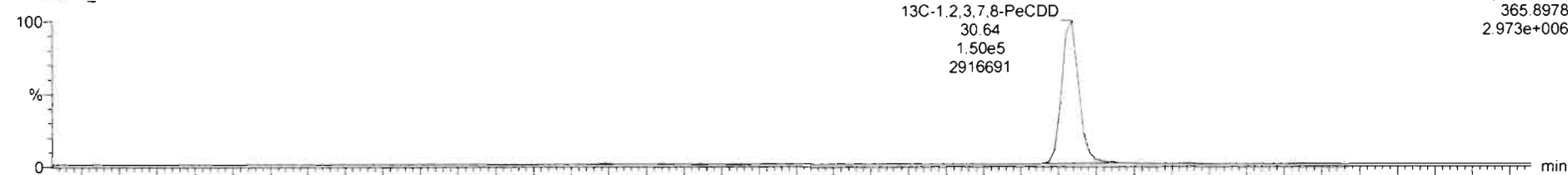


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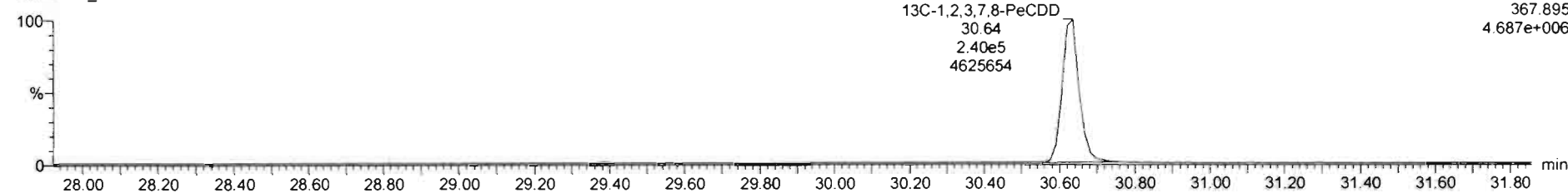


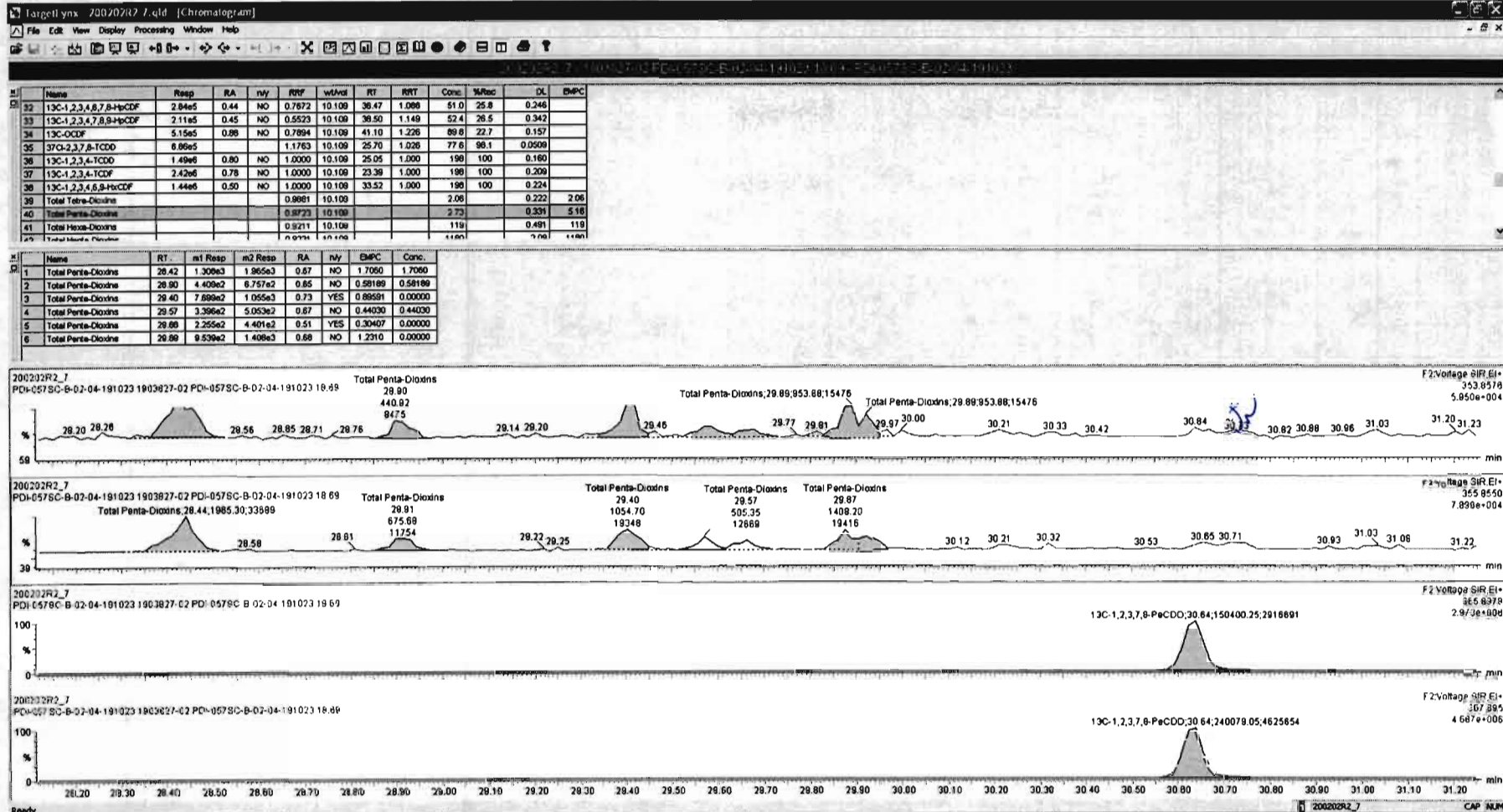
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200202R2_7





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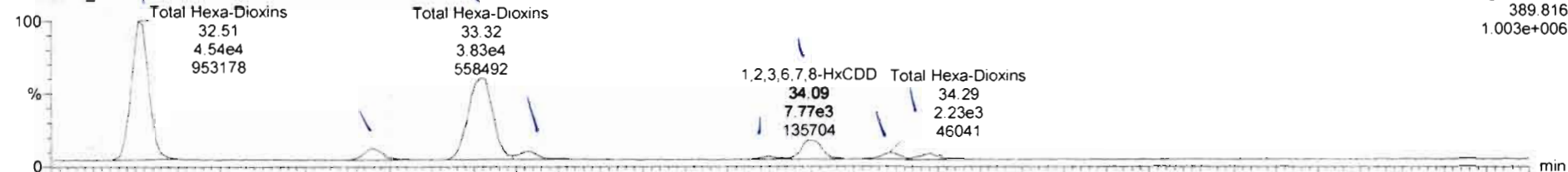
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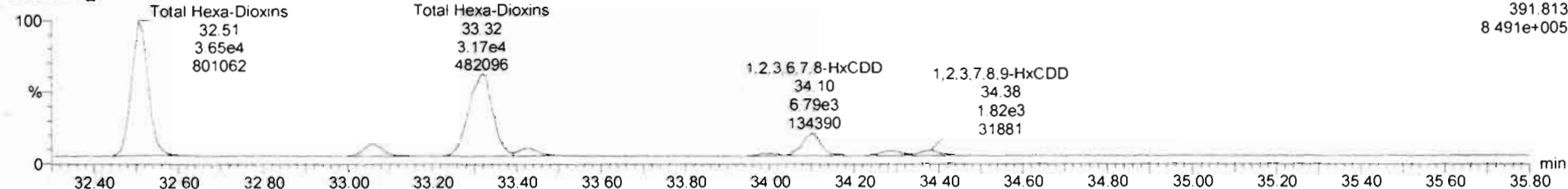
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1,2,3,4,7,8-HxCDD

200202R2_7

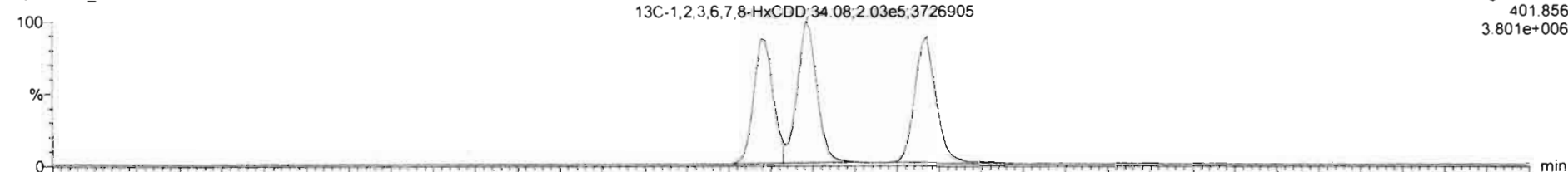


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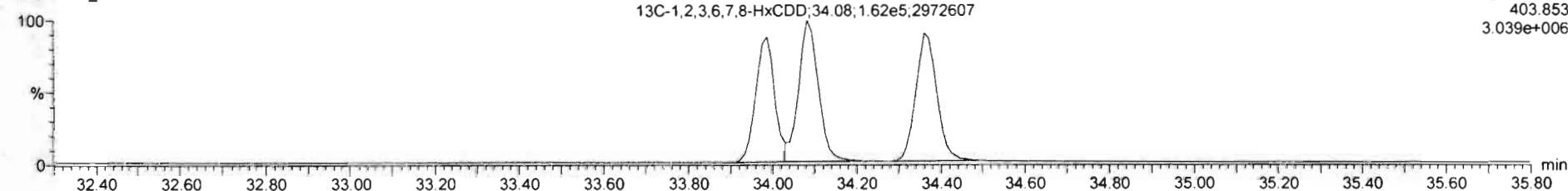


13C-1,2,3,4,7,8-HxCDD

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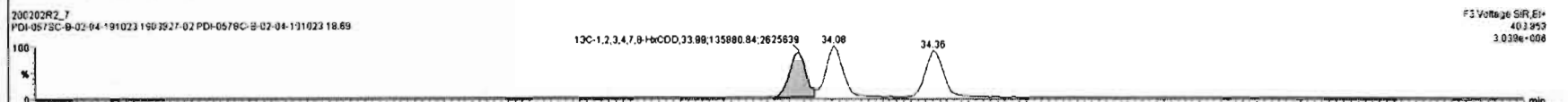
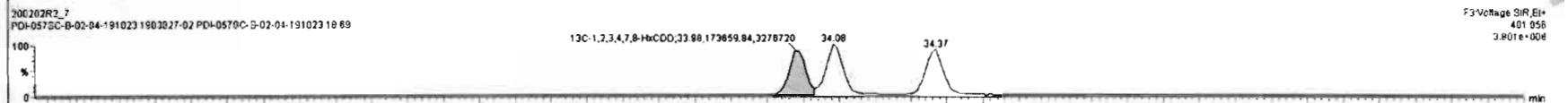
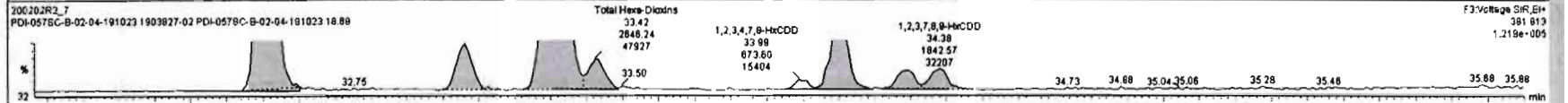
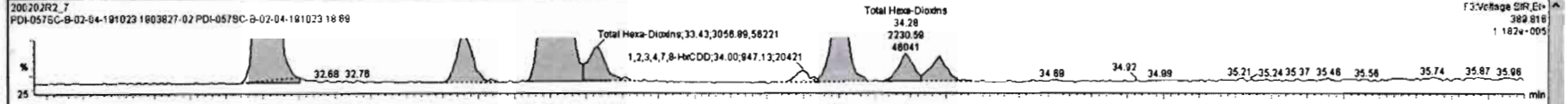


200202R2_7



Name	Resp	RA	n/y	R/R	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
13C-1,2,3,4,6,8-HxCDF	1.44e6	0.50	NO	1.0000	10.109	33.52	1.000	190	100	0.224	
Total Tetra-Dioxins				0.9961	10.109			2.06		0.222	2.06
Total Penta-Dioxins				0.9723	10.109			2.73		0.331	5.16
Total Hexa-Dioxins				0.9221	10.109			1.20		0.491	1.20
Total Hepta-Dioxins				0.9221	10.109			1160		2.09	1160
Total Tetra-Furans				0.8020	10.109			36.9		0.216	43.2
1st Func. Penta-Furans				0.9074	10.109			4.93		0.9957	4.93
Total Penta-Furans				0.9074	10.109			54.9		0.269	57.0
Total Hexa-Furans				0.8982	10.109			74.7		0.311	75.0
Total Hepta-Furans				0.8511	10.109			169		0.708	169

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1,2,3,7,8,9-HxCDD	34.36	2.157e3	1.843e3	1.17	NO	2.4977	2.4977
Total Hexa-Dioxins	34.26	2.231e3	1.715e3	1.30	NO	2.4949	2.4949
1,2,3,6,7,8-HxCDD	34.09	7.890e3	6.790e3	1.13	NO	8.5350	8.5350
1,2,3,4,7,8-HxCDD	34.00	9.471e2	6.736e2	1.41	NO	0.96714	0.96714
Total Hexa-Dioxins	33.43	3.057e3	2.546e3	1.16	NO	3.8061	3.8061
Total Hexa-Dioxins	33.32	3.827e4	3.179e4	1.20	NO	44.299	44.299
Total Hexa-Dioxins	33.06	4.213e3	3.711e3	1.14	NO	5.0193	5.0193



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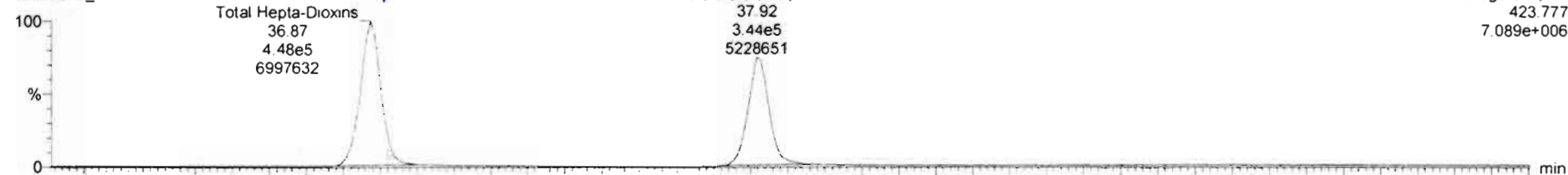
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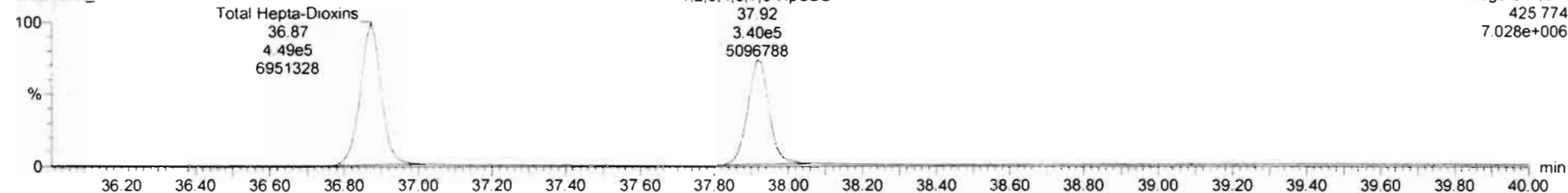
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1,2,3,4,6,7,8-HpCDD

200202R2_7

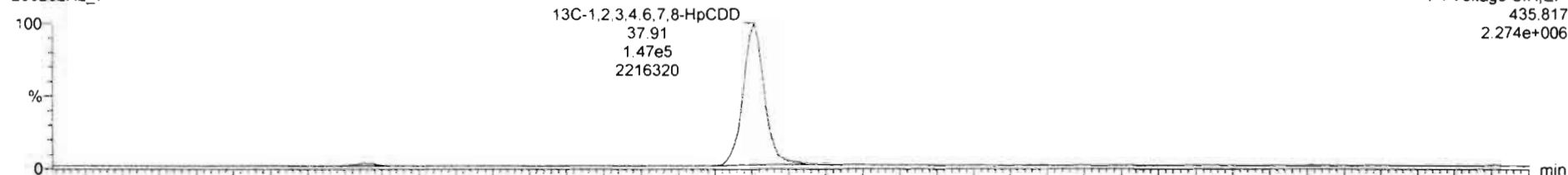


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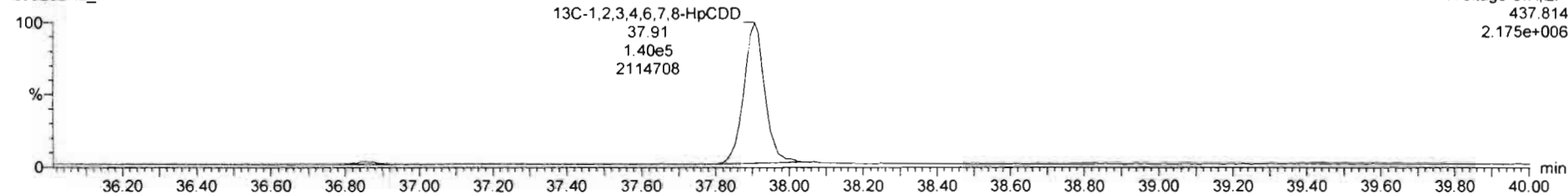


13C-1,2,3,4,6,7,8-HpCDD

200202R2_7



200202R2_7

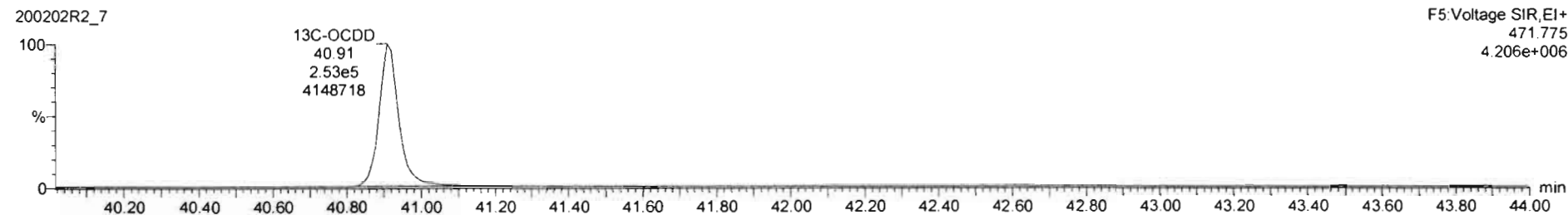
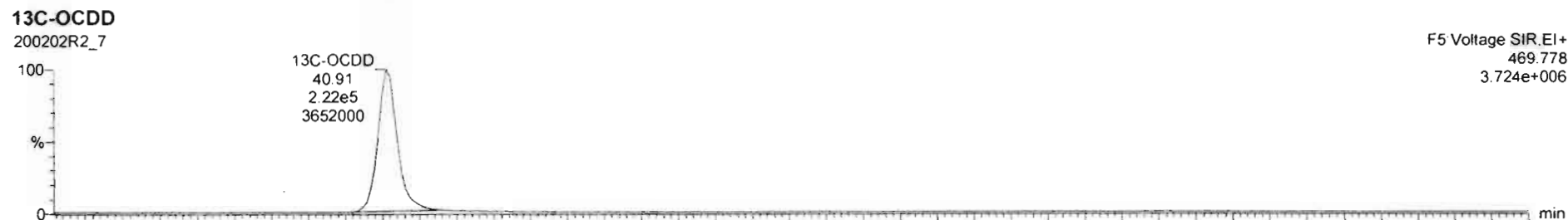
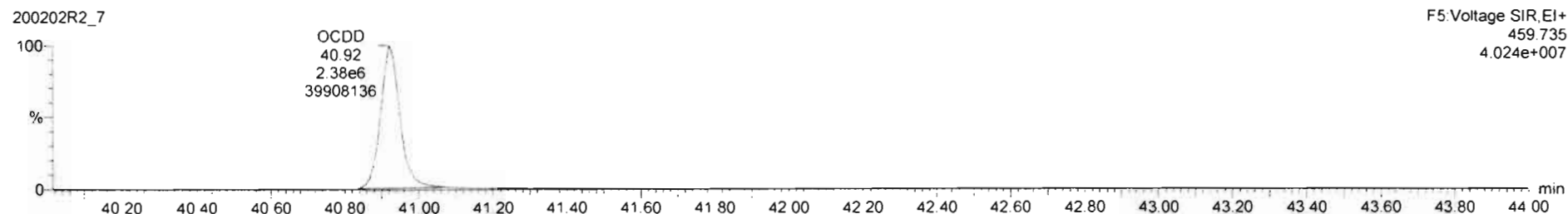
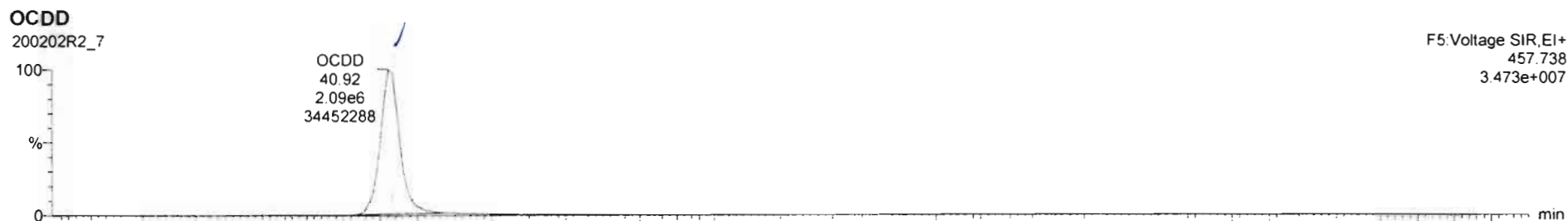


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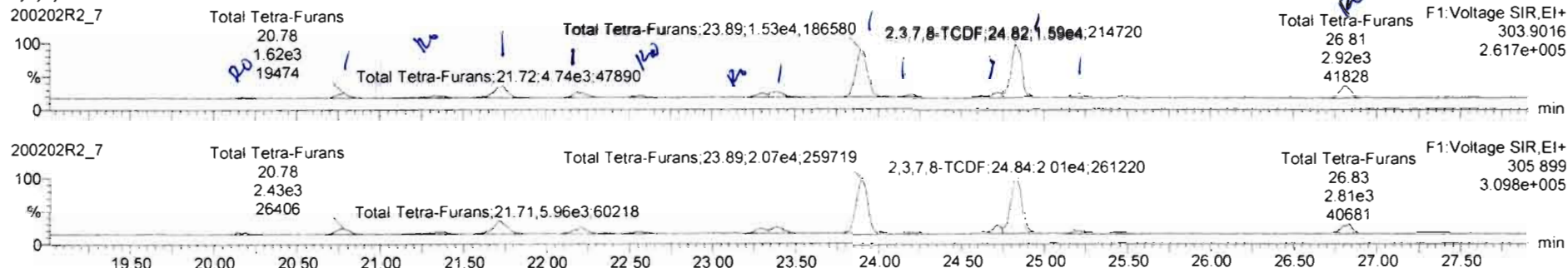


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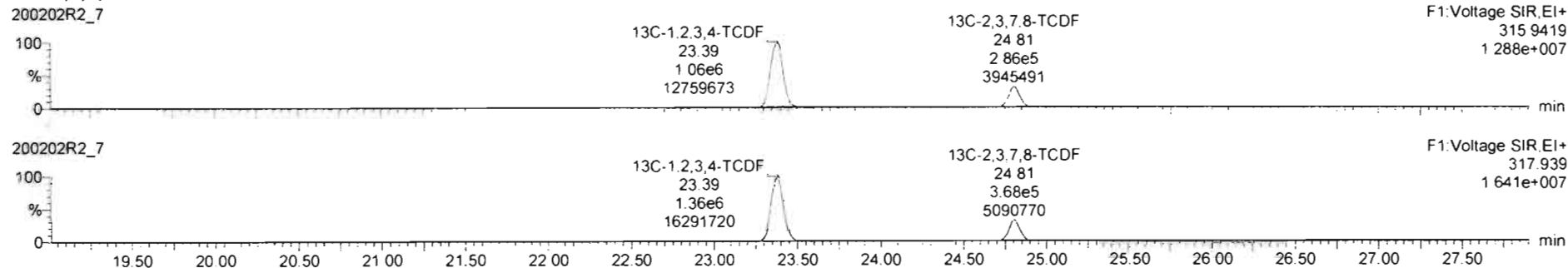
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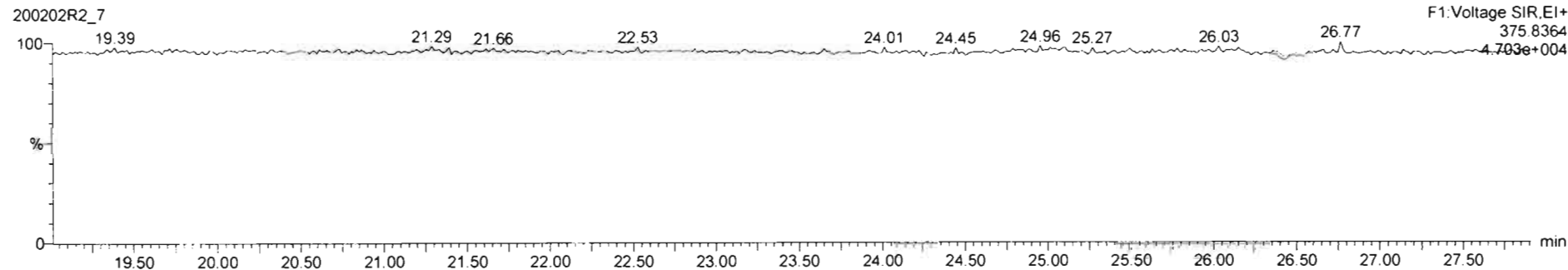
2,3,7,8-TCDF



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

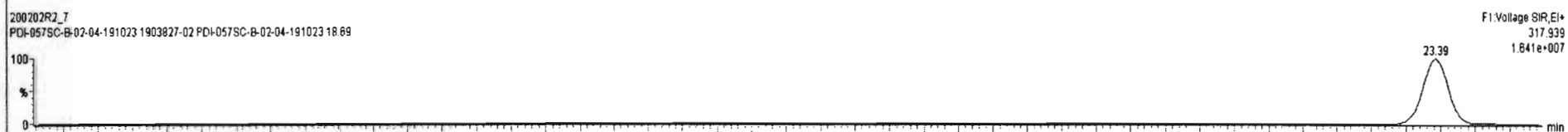
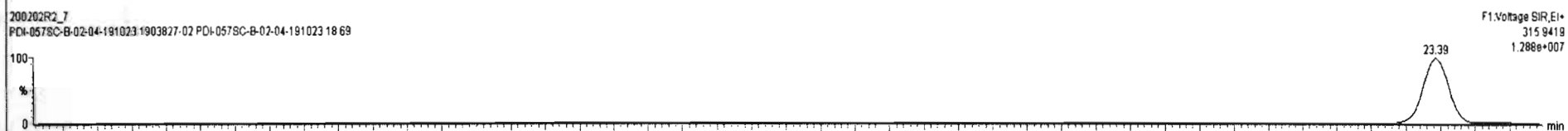
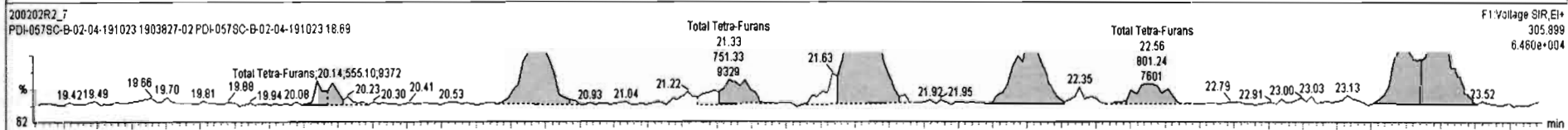
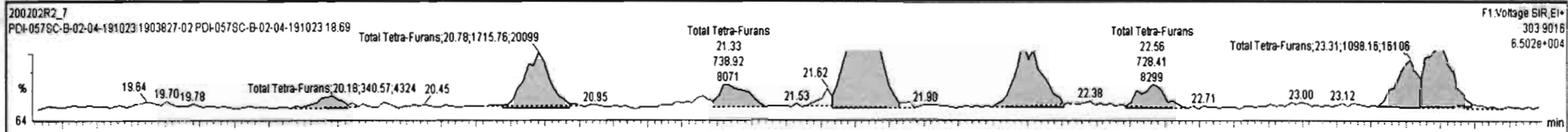


DPE1



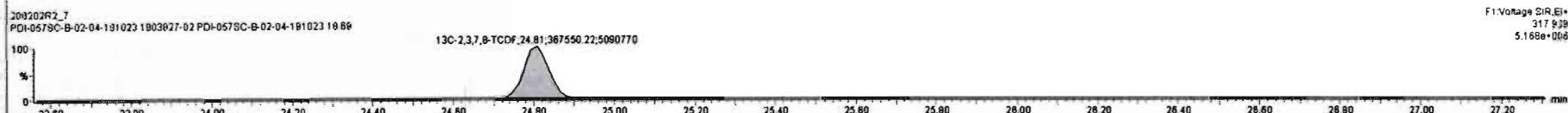
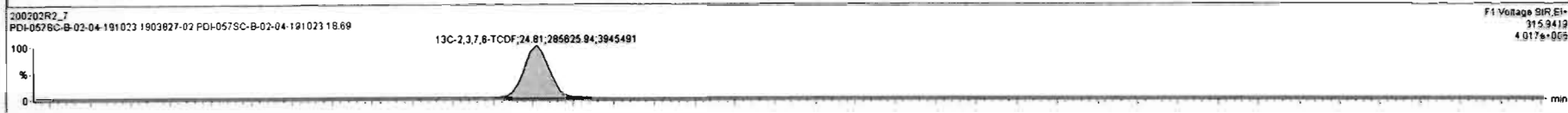
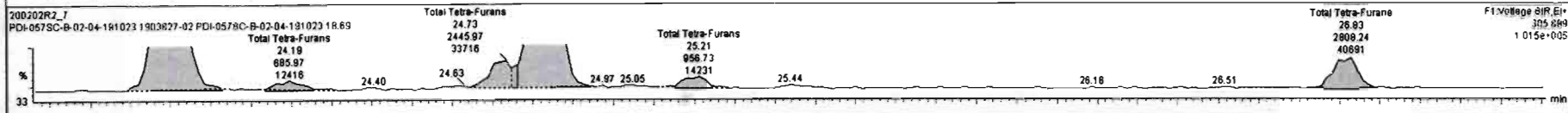
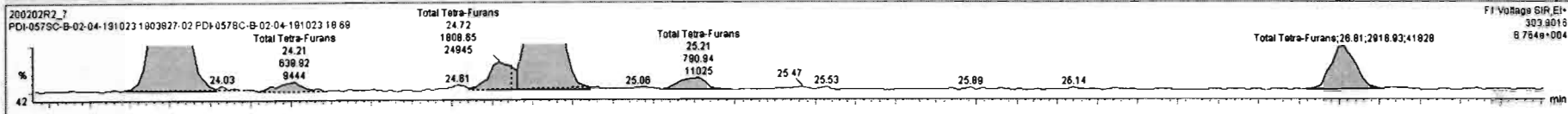
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-PeCDF	1.4466	0.50	NO	1.0000	10.109	33.52	1.000	198	100	0.224
39	Total Tetra-Dioxins				0.8881	10.109		2.06		0.222	2.06
40	Total Penta-Dioxins				0.9723	10.109		2.73		0.331	5.16
41	Total Hexa-Dioxins				0.9211	10.109		120		0.491	120
42	Total Hepta-Dioxins				0.9231	10.109		1180		2.09	1180
43	Total Tetra-Furans				0.9020	10.109		38.7		0.216	42.9
44	1st Func. Penta-Furans				0.9074	10.109		4.93		0.0557	4.93
45	Total Penta-Furans				0.9074	10.109		54.9		0.268	57.0
46	Total Hexa-Furans				0.8982	10.109		74.7		0.311	75.0
47	Total Hepta-Furans				0.8511	10.109		169		0.708	169

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.	
1	Total Tetra-Furans	20.18	3.406e2	5.551e2	0.61	YES	0.29569	0.00000
2	Total Tetra-Furans	20.78	1.716e3	2.437e3	0.70	NO	1.5685	1.5685
3	Total Tetra-Furans	21.33	7.389e2	7.513e2	0.98	YES	0.50229	0.00000
4	Total Tetra-Furans	21.72	4.537e3	5.370e3	0.84	NO	3.7416	3.7416
5	Total Tetra-Furans	22.19	2.034e3	2.564e3	0.79	NO	1.7368	1.7368
6	Total Tetra-Furans	22.56	7.284e2	8.012e2	0.91	YES	0.53565	0.00000
7	Total Tetra-Furans	23.31	1.098e3	1.717e3	0.64	YES	0.95344	0.00000



Name	Resp	RA	n/y	RF	vdVol	RT	RRT	Conc.	%Rec	DL	EMPC
30 13C-1,2,3,4,6,8-HxCDF	1.44e6	0.50	NO	1.0000	10.109	33.52	1.000	198	100	0.224	
39 Total Tetra-Dioxins				0.9891	10.109			2.06		0.222	2.06
40 Total Penta-Dioxins				0.9723	10.109			2.73		0.331	5.18
41 Total Hexa-Dioxins				0.9211	10.109			1.00		0.491	1.20
42 Total Hepta-Dioxins				0.8221	10.109			1.99		2.09	1.90
43 Total Tetra-Furans				0.8020	10.109			36.7		0.218	42.9
44 1st Func. Penta-Furans				0.9074	10.109			4.93		0.0957	4.93
45 Total Penta-Furans				0.9074	10.109			54.9		0.269	57.0
46 Total Hexa-Furans				0.8982	10.109			74.7		0.311	75.0
47 Total Hepta-Furans				0.8511	10.109			166		0.708	169

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.18	3.408e2	5.551e2	0.81	YES	0.29589	0.00000
2 Total Tetra-Furans	20.78	1.716e3	2.437e3	0.70	NO	1.5895	1.5895
3 Total Tetra-Furans	21.33	7.389e2	7.513e2	0.98	YES	0.50229	0.00000
4 Total Tetra-Furans	21.72	4.537e3	5.370e3	0.84	NO	3.7416	3.7416
5 Total Tetra-Furans	22.19	2.034e3	2.564e3	0.79	NO	1.7368	1.7368
6 Total Tetra-Furans	22.58	7.284e2	8.012e2	0.91	YES	0.53565	0.00000
7 Total Tetra-Furans	23.31	1.098e3	1.717e3	0.84	YES	0.95344	0.00000



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Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time

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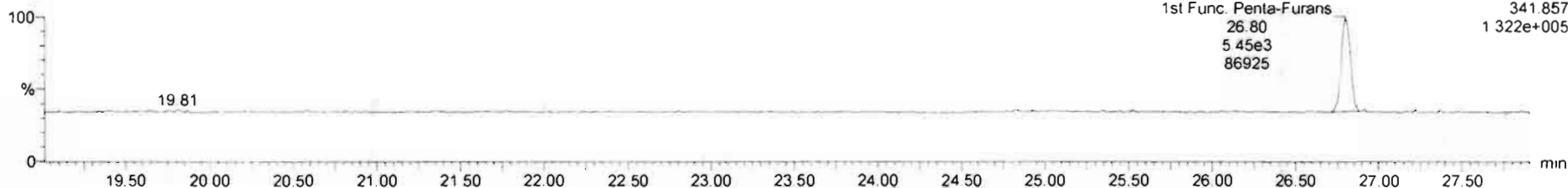
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1st Func. Penta-Furans

200202R2_7

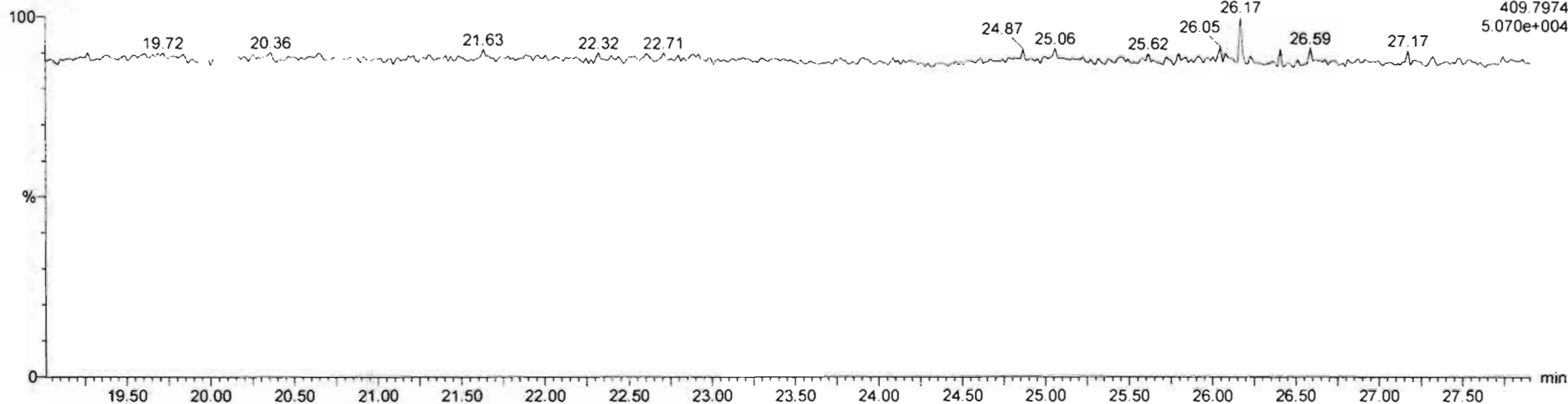


200202R2_7



DPE6

200202R2_7



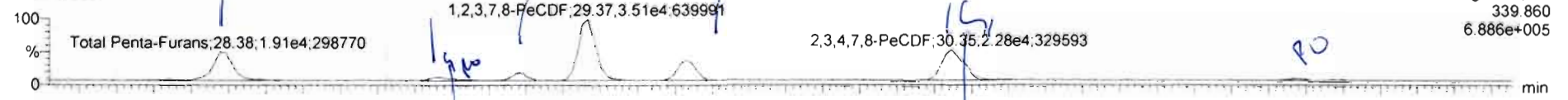
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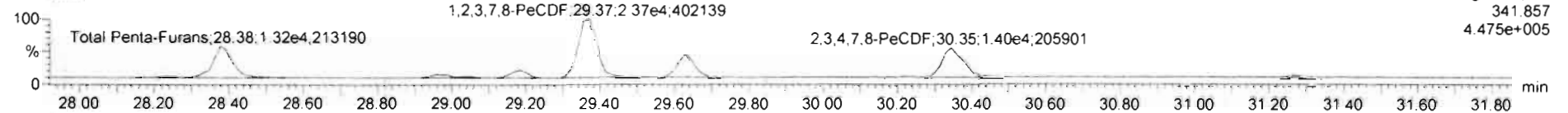
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1,2,3,7,8-PeCDF

200202R2_7

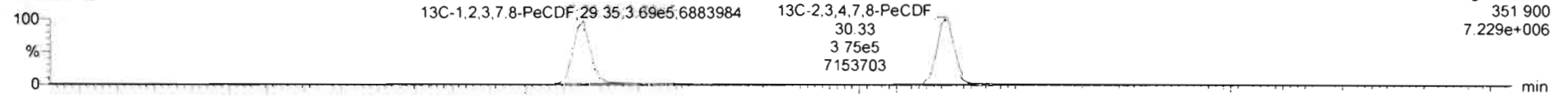


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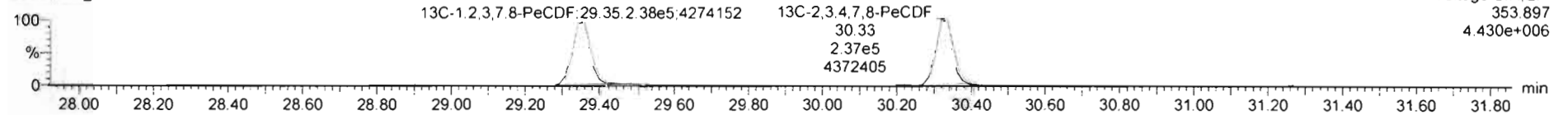


13C-1,2,3,7,8-PeCDF

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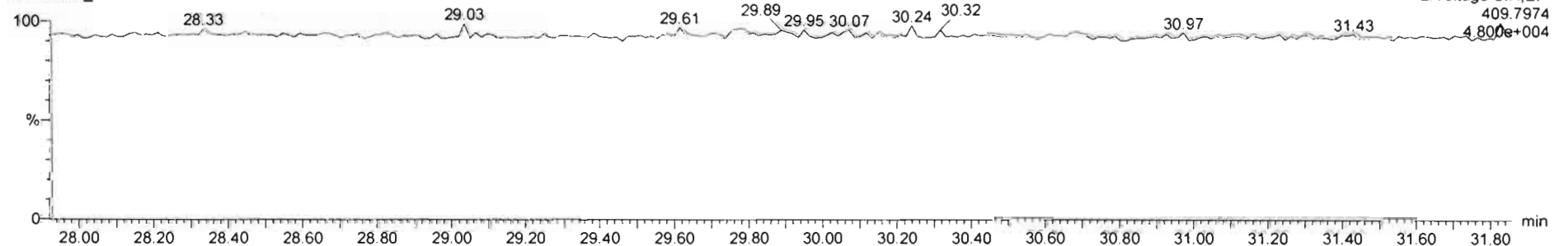


200202R2_7



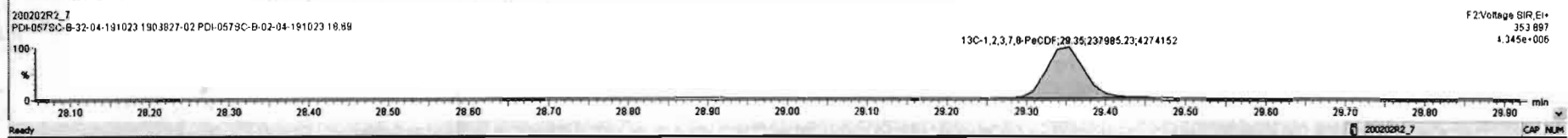
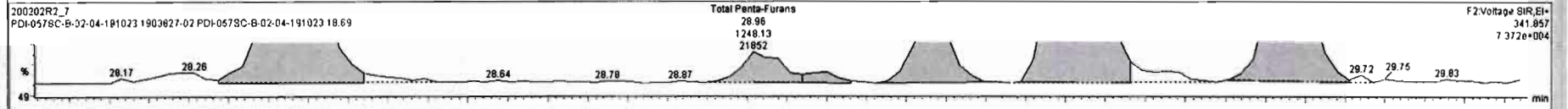
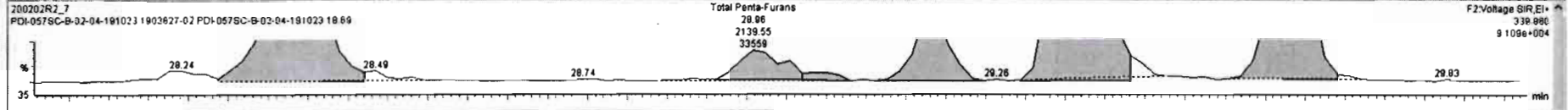
DPE2

200202R2_7



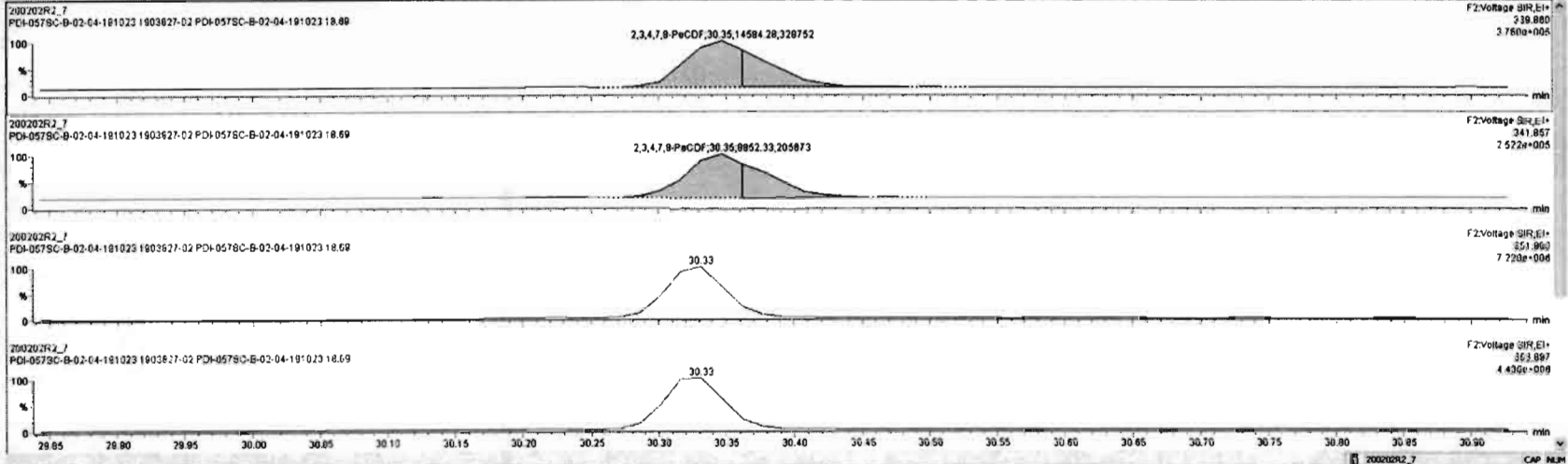
#	Name	Resp	RA	n/y	RF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HxCDF	1.44e6	0.50	NO	1.0000	10.109	33.52	1.000	198	100	0.224	
39	Total Tetra-Dioxins				0.9861	10.109			2.06		0.222	2.06
40	Total Penta-Dioxins				0.9723	10.109			2.73		0.331	5.18
41	Total Hexa-Dioxins				0.9211	10.109			1.20		0.491	1.20
42	Total Hepta-Dioxins				0.9231	10.109			1180		2.09	1180
43	Total Tetra-Furans				0.9020	10.109			38.7		0.216	42.9
44	1st Func. Penta-Furans				0.9074	10.109			4.93		0.0957	4.93
45	Total Penta-Furans				0.9074	10.109			55.6		0.288	58.4
46	Total Hexa-Furans				0.8962	10.109			74.7		0.311	75.0
47	Total Hepta-Furans				0.8511	10.109			168		0.708	169

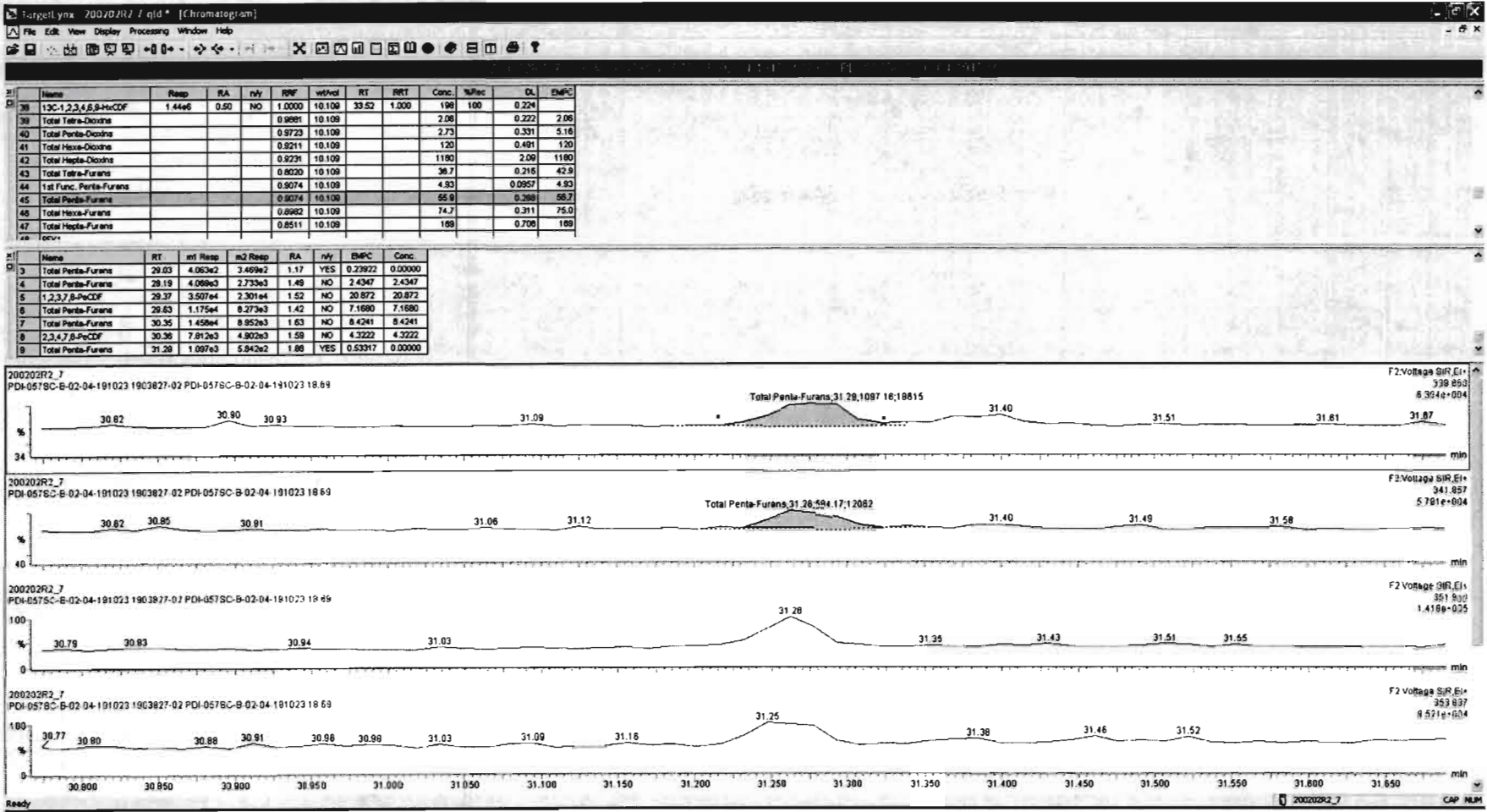
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.38	1.892e4	1.309e4	1.45	NO	11.451	11.451
2	Total Penta-Furans	28.96	2.140e3	1.248e3	1.71	NO	1.2125	1.2125
3	Total Penta-Furans	29.03	4.063e2	3.469e2	1.17	YES	0.23622	0.00000
4	Total Penta-Furans	29.19	4.069e3	2.733e3	1.49	NO	2.4347	2.4347
5	1,2,3,7,8-PeCDF	29.37	3.507e4	2.301e4	1.52	NO	20.872	20.872
6	Total Penta-Furans	29.63	1.175e4	8.273e3	1.42	NO	7.1680	7.1680
7	2,3,4,7,8-PeCDF	30.35	1.805e4	1.134e4	1.59	NO	9.9911	9.9911



#	Name	Resp	RA	n/y	RP'	wt/vol	RT	RRT	Conc.	%Rec	DL	BaPC
40	Total Penta-Dioxins				0.9723	10.108			2.73		0.331	5.18
41	Total Hexa-Dioxins				0.9211	10.109			1.90		0.491	1.20
42	Total Hepta-Dioxins				0.9221	10.109			11.90		2.09	11.60
43	Total Tetra-Furans				0.9220	10.109			38.7		0.216	42.8
44	1st Func. Penta-Furans				0.9074	10.109			4.83		0.0957	4.83
45	Total Penta-Furans				0.9074	10.109			66.7		0.288	66.8
46	Total Hexa-Furans				0.8982	10.109			74.7		0.311	75.0
47	Total Hepta-Furans				0.8511	10.109			189		0.708	189
48	PFH1											
49	PFH2											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	BaPC	Conc.
3	Total Penta-Furans	29.03	4.063e2	3.469e2	1.17	YES	0.23922	0.00000
4	Total Penta-Furans	29.18	4.069e3	2.733e3	1.48	NO	2.4347	2.4347
5	1,2,3,7-β-PeCDF	29.37	3.507e4	2.301e4	1.52	NO	20.872	20.872
6	Total Penta-Furans	29.83	1.175e4	8.273e3	1.42	NO	7.1880	7.1880
7	2,3,4,7-β-PeCDF	30.35	1.458e4	8.952e3	1.63	NO	8.0012	8.0012
8	Total Penta-Furans	30.36	7.812e3	4.902e3	1.59	NO	4.5507	4.5507
9	Total Penta-Furans	31.29	1.097e3	5.842e2	1.88	YES	0.53317	0.00000





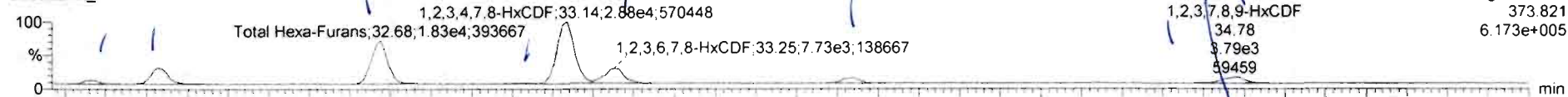
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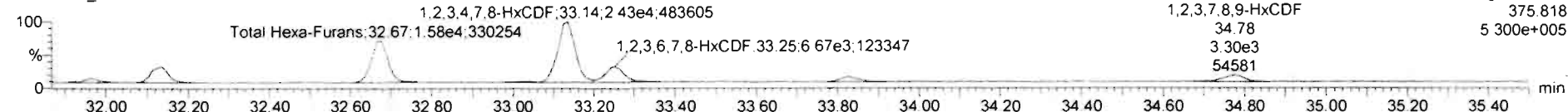
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1,2,3,4,7,8-HxCDF

200202R2_7

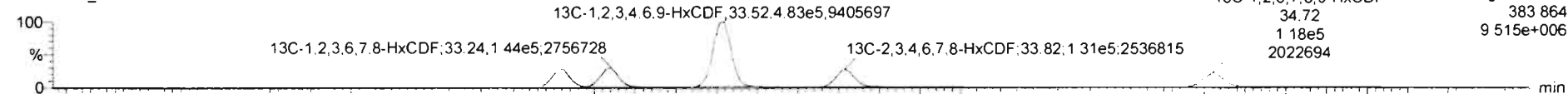


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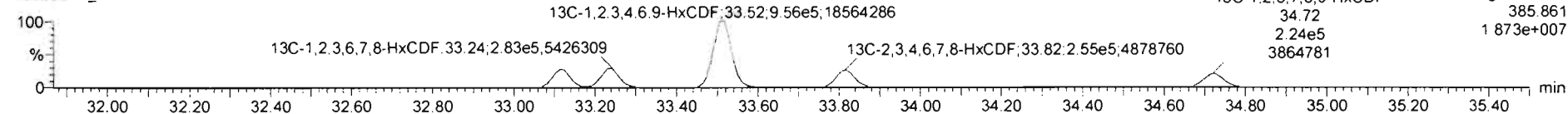


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200202R2_7

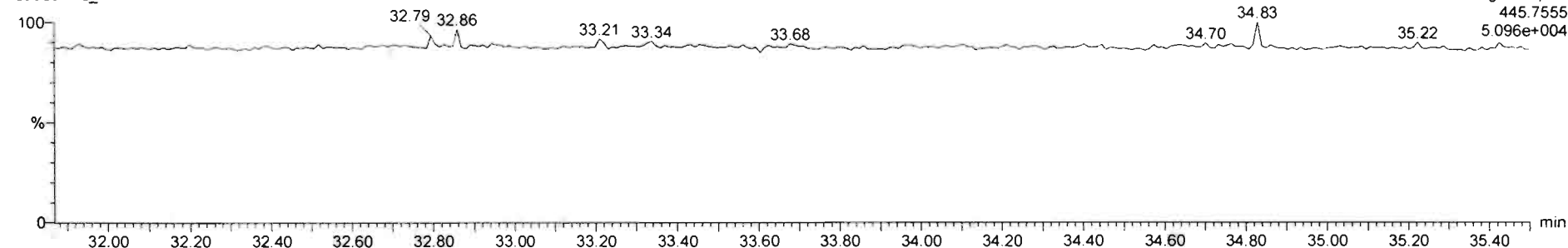


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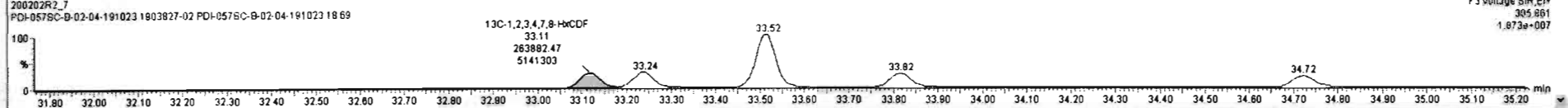
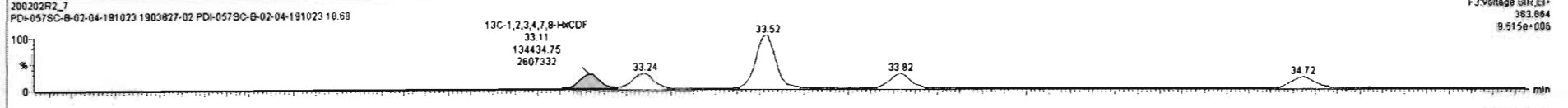
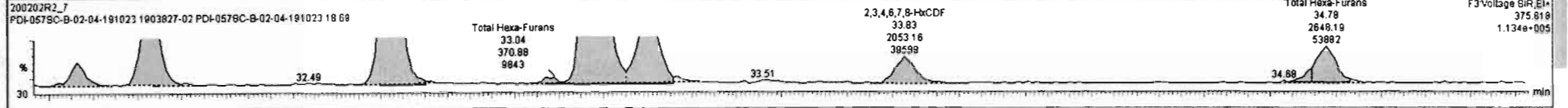
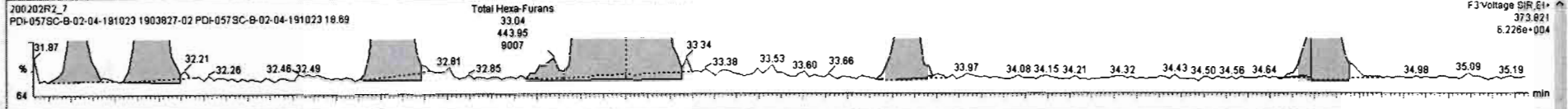
DPE3

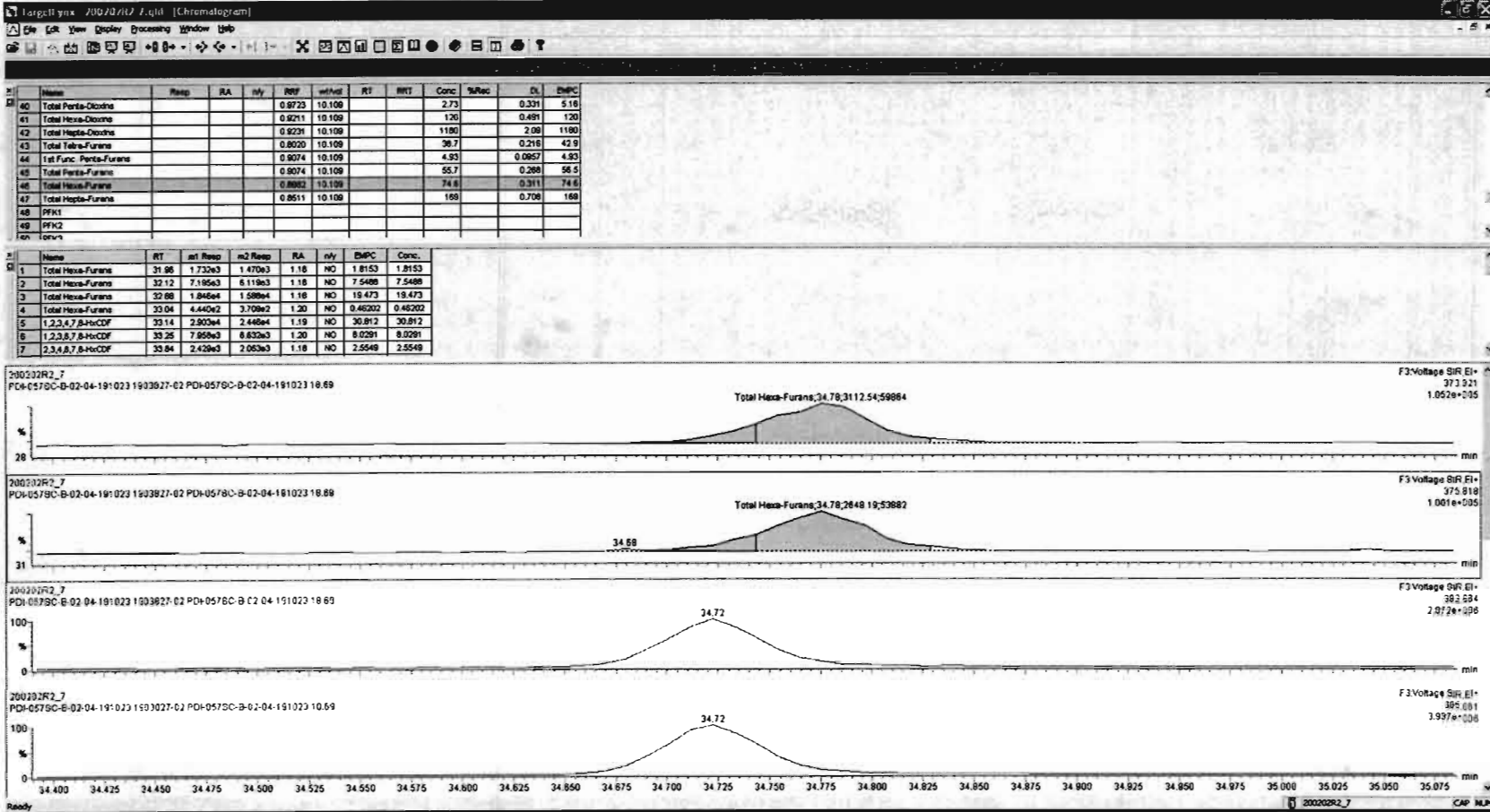
200202R2_7



Name	Resp	RA	nly	R9F	wInd	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.8723	10.108			2.73	0.331	5.16	
41 Total Hexa-Dioxins				0.8211	10.108			1.20	0.491	1.20	
42 Total Hepta-Dioxins				0.8231	10.108			1180	2.09	1180	
43 Total Tetra-Furans				0.8020	10.108			38.7	0.218	42.9	
44 1st Func. Penta-Furans				0.8074	10.108			4.93	0.0957	4.93	
45 Total Penta-Furans				0.8074	10.108			55.7	0.289	56.5	
46 Total Hexa-Furans				0.8982	10.108			74.8	0.311	74.8	
47 Total Hepta-Furans				0.8511	10.108			189	0.708	189	
48 PFK1											
49 PFK2											
50											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
3 Total Hexa-Furans	32.88	1.848e4	1.588e4	1.16	NO	19.473	18.473
4 Total Hexa-Furans	33.04	4.440e2	3.709e2	1.20	NO	0.46202	0.46202
5 1,2,3,4,7,8-HxCDF	33.14	2.903e4	2.446e4	1.19	NO	30.812	30.812
6 1,2,3,6,7,8-HxCDF	33.25	7.858e3	6.832e3	1.20	NO	8.0291	8.0291
7 2,3,4,6,7,8-HxCDF	33.84	2.428e3	2.053e3	1.18	NO	2.5549	2.5549
8 1,2,3,7,8-HxCDF	34.74	6.370e2	4.322e2	1.24	NO	0.85380	0.85380
9 Total Hexa-Furans	34.76	3.113e3	2.648e3	1.18	NO	3.2694	3.2694



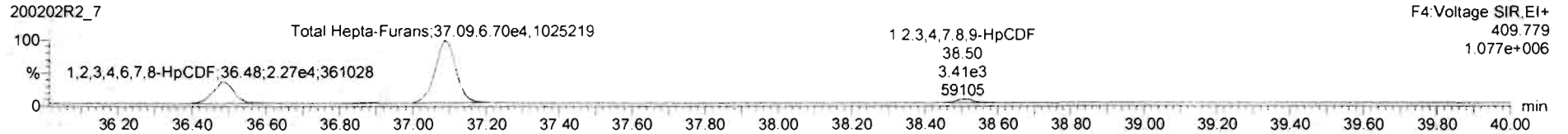
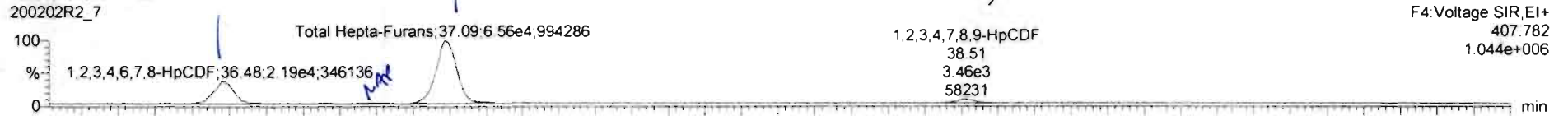


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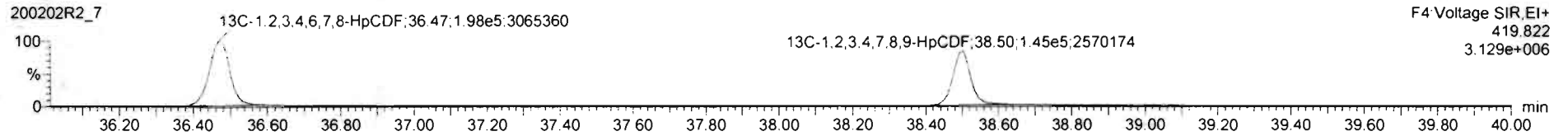
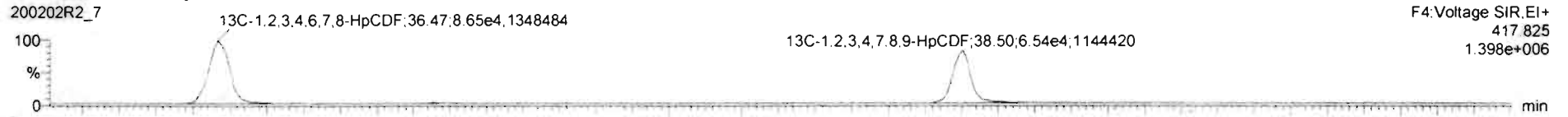
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Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_7, Date: 03-Feb-2020, Time: 02:59:07, ID: 1903827-02 PDI-057SC-B-02-04-191023 18.69, Description: PDI-057SC-B-02-04-191023

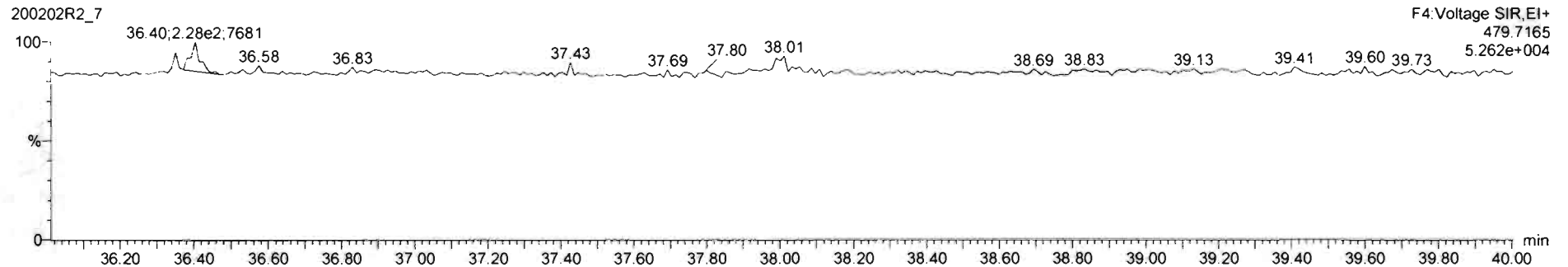
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13C-1,2,3,4,6,7,8-HpCDF

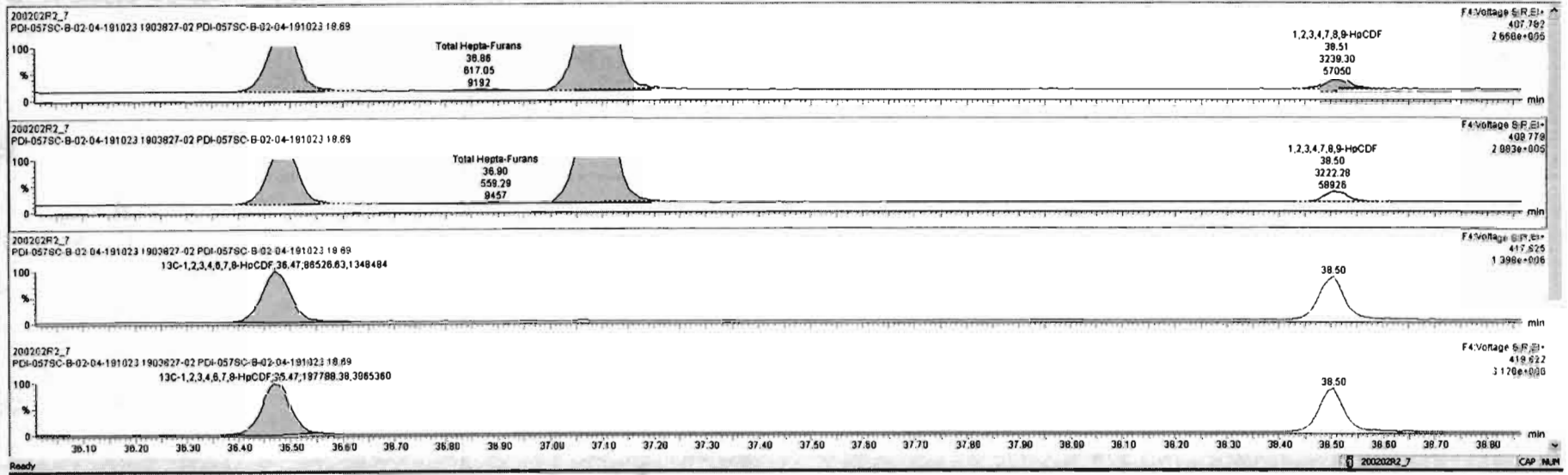


DPE4



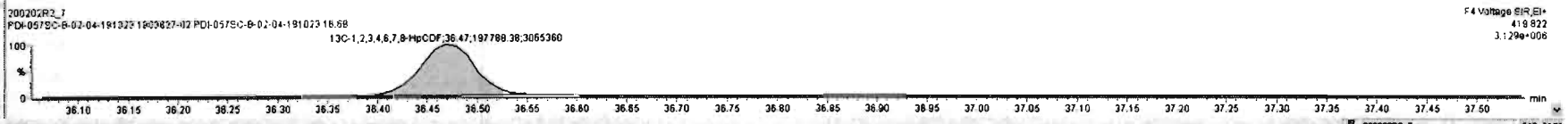
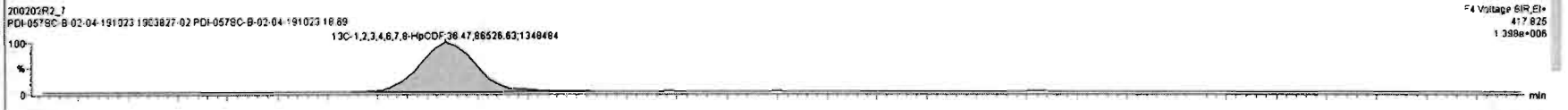
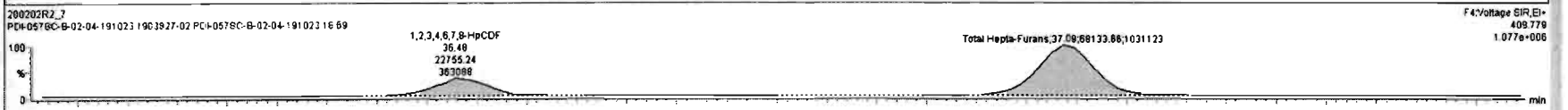
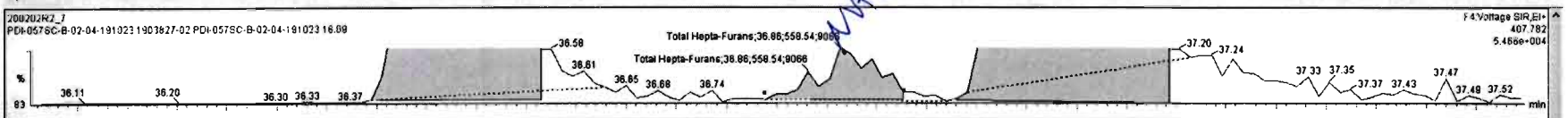
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9723	10.109			2.73	0.331	5.18	
41 Total Hexa-Dioxins				0.9211	10.109			120	0.491	120	
42 Total Hepta-Dioxins				0.9231	10.109			1180	2.09	1180	
43 Total Tetra-Furans				0.8020	10.109			38.7	0.216	42.9	
44 1st Func. Penta-Furans				0.9074	10.109			4.93	0.0657	4.93	
45 Total Penta-Furans				0.9074	10.109			55.7	0.268	56.5	
46 Total Hexa-Furans				0.8982	10.109			74.6	0.311	74.6	
47 Total Hepta-Furans				0.8511	10.109			170	0.706	170	
48 PFK1											
49 PFK2											
49											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.48	2.177e4	2.276e4	0.96	NO	36.410	36.410
2 Total Hepta-Furans	36.88	6.170e2	5.593e2	1.10	NO	1.1052	1.1052
3 Total Hepta-Dioxins	37.09	6.845e1	6.813e1	0.98	NO	126.44	126.44
4 1,2,3,4,7,8,9-HpCDF	38.51	3.239e3	3.222e3	1.01	NO	8.1961	8.1961



Name	Resp	RA	n/y	R/F	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.8723	10 108	2.73		2.73	0.331	5.16	
41 Total Hexa-Dioxins				0.8211	10 108	1.20		1.20	0.481	1.20	
42 Total Hepta-Dioxins				0.8221	10 108	1.80		1.80	2.08	1.80	
43 Total Tetra-Furans				0.8020	10 108	36.7		36.7	0.216	42.9	
44 1st Func. Penta-Furans				0.8074	10 108	4.83		4.83	0.0957	4.93	
45 Total Penta-Furans				0.8074	10 108	55.7		55.7	0.268	56.5	
46 Total Hexa-Furans				0.9962	10 108	74.6		74.6	0.311	74.6	
47 Total Hepta-Furans				0.8811	10 108	1.70		1.70	0.708	1.70	
48 PFK1											
49 PFK2											

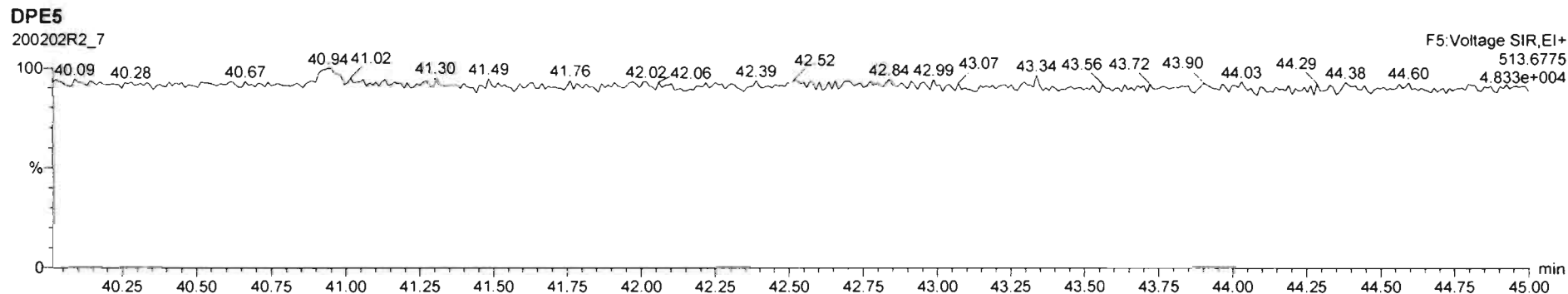
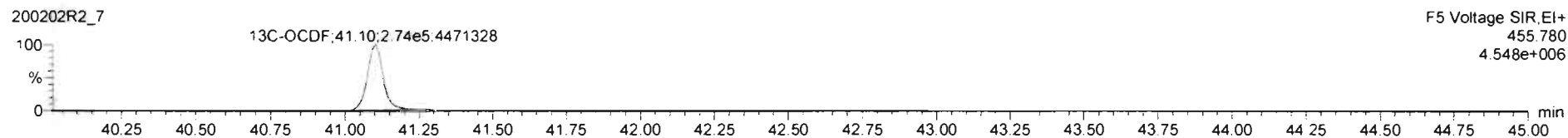
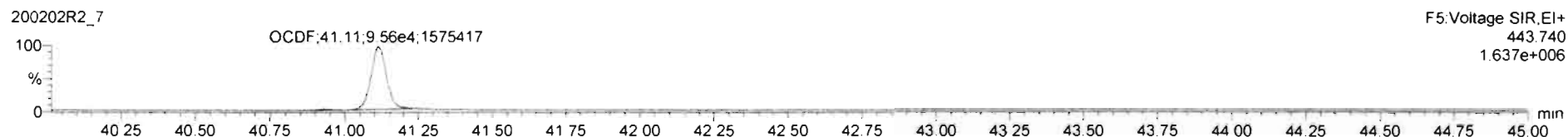
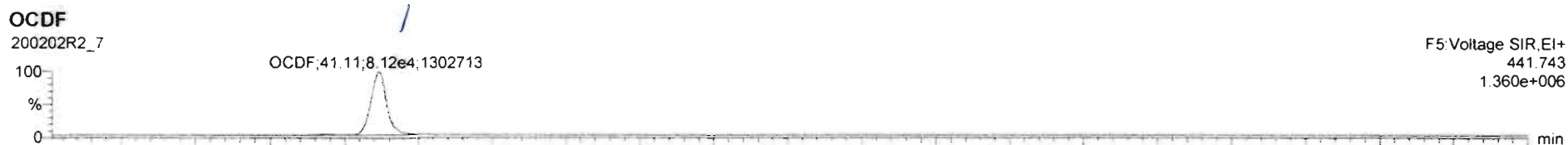
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.48	2.177e4	2.276e4	0.96	NO	36.410	36.410
2 Total Hepta-Furans	36.86	5.585e2	5.335e2	1.05	NO	1.0280	1.0280
3 Total Hepta-Furans	37.09	6.845e4	6.813e4	0.98	NO	126.44	126.44
4 1,2,3,4,7,8,9-HpCDF	36.51	3.239e3	3.222e3	1.01	NO	6.1961	6.1961



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Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time
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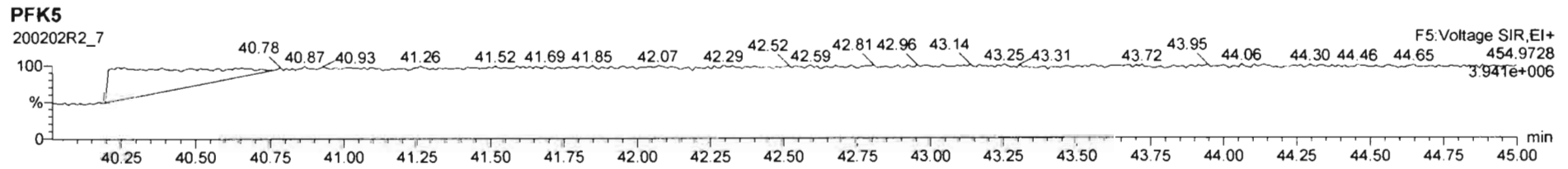
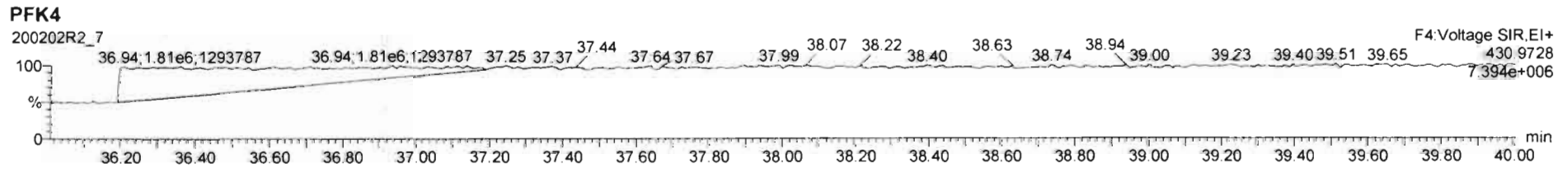
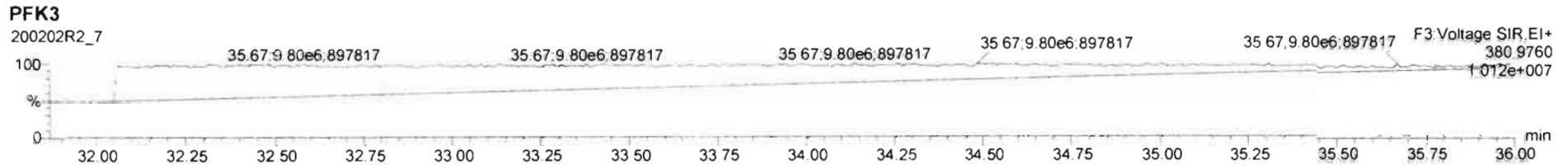
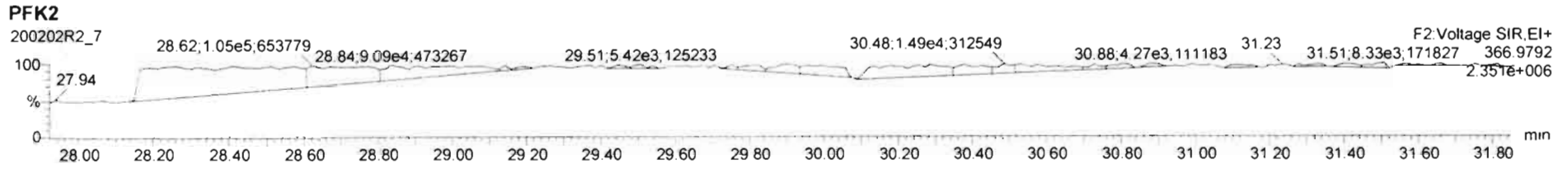
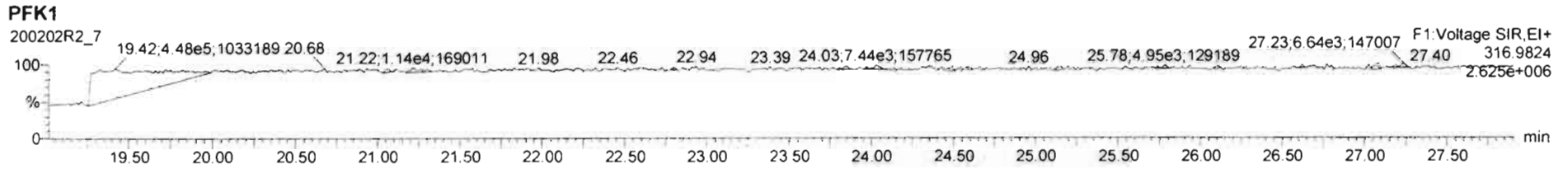
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Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time
Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

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Name: 200202R2_8, Date: 03-Feb-2020, Time: 03:46:08, ID: 1903827-03 PDI-057SC-B-04-06-191023 17.03, Description: PDI-057SC-B-04-06-191023

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD				0.988	10.058	25.72		1.00		NO			0.224	
2	2 1,2,3,7,8-PeCDD				0.972	10.058	30.66		1.00		NO			0.330	
3	3 1,2,3,4,7,8-HxCDD	678.422	1.018	YES	1.07	10.058	34.00	34.01	1.00	1.00	NO	0.5163		0.562	0.4724
4	4 1,2,3,6,7,8-HxCDD	8114.207	1.287	NO	0.921	10.058	34.09	34.10	1.00	1.00	NO	6.215		0.574	6.215
5	5 1,2,3,7,8,9-HxCDD	1805.759	1.023	YES	0.918	10.058	34.40	34.38	1.00	1.00	NO	1.418		0.622	1.295
6	6 1,2,3,4,6,7,8-HpCDD	422122.422	1.010	NO	0.923	10.058	37.92	37.93	1.00	1.00	NO	362.7		1.68	362.7
7	7 OCDD	2549888.2...	0.877	NO	0.975	10.058	40.92	40.93	1.00	1.00	NO	2911		1.23	2911
8	8 2,3,7,8-TCDF	4810.564	0.774	NO	0.802	10.058	24.83	24.82	1.00	1.00	NO	2.220 <i>C1</i>		0.300	2.220
9	9 1,2,3,7,8-PeCDF	7413.174	1.478	NO	0.907	10.058	29.38	29.37	1.00	1.00	NO	3.305		0.205	3.305
10	10 2,3,4,7,8-PeCDF	3262.031	1.397	NO	0.952	10.058	30.36	30.36	1.00	1.00	NO	1.488		0.193	1.488
11	11 1,2,3,4,7,8-HxCDF	7073.980	1.143	NO	0.862	10.058	33.12	33.13	1.00	1.00	NO	5.107		0.329	5.107
12	12 1,2,3,6,7,8-HxCDF	1843.711	1.069	NO	0.841	10.058	33.25	33.26	1.00	1.00	NO	1.270		0.326	1.270
13	13 2,3,4,6,7,8-HxCDF	819.367	1.200	NO	0.898	10.058	33.86	33.84	1.00	1.00	NO	0.5911		0.334	0.5911
14	14 1,2,3,7,8,9-HxCDF	206.988	1.150	NO	0.858	10.058	34.72	34.75	1.00	1.00	NO	0.1783		0.446	0.1783
15	15 1,2,3,4,6,7,8-HpCDF	17065.737	0.970	NO	0.851	10.058	36.52	36.49	1.00	1.00	NO	18.12		0.475	18.12
16	16 1,2,3,4,7,8,9-HpCDF	1499.151	0.930	NO	0.980	10.058	38.50	38.50	1.00	1.00	NO	1.776		0.480	1.776
17	17 OCDF	96364.696	0.832	NO	0.806	10.058	41.11	41.11	1.00	1.00	NO	120.0		0.447	120.0
18	18 13C-2,3,7,8-TCDD	393358.641	0.786	NO	1.20	10.058	25.69	25.69	1.03	1.03	NO	57.12	28.7	0.195	
19	19 13C-1,2,3,7,8-PeCDD	313523.320	0.633	NO	0.967	10.058	30.43	30.64	1.22	1.22	NO	56.45	28.4	0.148	
20	20 13C-1,2,3,4,7,8-HxCDD	243063.766	1.261	NO	0.874	10.058	33.99	33.99	1.01	1.01	NO	51.77	26.0	0.217	
21	21 13C-1,2,3,6,7,8-HxCDD	281854.703	1.245	NO	1.05	10.058	34.09	34.09	1.02	1.02	NO	50.17	25.2	0.181	
22	22 13C-1,2,3,7,8,9-HxCDD	275865.860	1.226	NO	0.974	10.058	34.39	34.37	1.03	1.03	NO	52.70	26.5	0.194	
23	23 13C-1,2,3,4,6,7,8-HpCDD	250702.859	1.079	NO	0.747	10.058	37.94	37.91	1.13	1.13	NO	62.45	31.4	0.254	
24	24 13C-OCDD	357506.297	0.892	NO	0.707	10.058	40.83	40.92	1.22	1.22	NO	94.19	23.7	0.169	
25	25 13C-2,3,7,8-TCDF	537181.781	0.791	NO	1.07	10.058	24.87	24.81	0.99	0.99	NO	55.33	27.8	0.277	
26	26 13C-1,2,3,7,8-PeCDF	491560.563	1.571	NO	1.00	10.058	29.20	29.35	1.17	1.17	NO	53.84	27.1	0.256	
27	27 13C-2,3,4,7,8-PeCDF	458222.125	1.578	NO	0.962	10.058	30.16	30.33	1.20	1.21	NO	52.28	26.3	0.266	
28	28 13C-1,2,3,4,7,8-HxCDF	319437.703	0.507	NO	1.05	10.058	33.12	33.12	0.99	0.99	NO	56.67	28.5	0.226	
29	29 13C-1,2,3,6,7,8-HxCDF	343120.890	0.524	NO	1.19	10.058	33.22	33.24	0.99	0.99	NO	53.68	27.0	0.199	
30	30 13C-2,3,4,6,7,8-HxCDF	306863.429	0.511	NO	1.07	10.058	33.82	33.83	1.01	1.01	NO	53.57	26.9	0.223	
31	31 13C-1,2,3,7,8,9-HxCDF	269091.351	0.499	NO	0.922	10.058	34.73	34.72	1.04	1.04	NO	54.30	27.3	0.257	

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-8.qld

Last Altered: Wednesday, February 12, 2020 11:54:13 Pacific Standard Time
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Name: 200202R2_8, Date: 03-Feb-2020, Time: 03:46:08, ID: 1903827-03 PDI-057SC-B-04-06-191023 17.03, Description: PDI-057SC-B-04-06-191023

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	220007.344	0.429	NO	0.767	10.058	36.47	36.48	1.09	1.09	NO	53.38	26.8	0.287	
33	13C-1,2,3,4,7,8,9-HpCDF	171248.597	0.430	NO	0.552	10.058	38.48	38.50	1.15	1.15	NO	57.71	29.0	0.399	
34	13C-OCDF	396484.047	0.876	NO	0.789	10.058	41.06	41.11	1.23	1.23	NO	93.49	23.5	0.176	
35	37Cl-2,3,7,8-TCDD	524365.188			1.18	10.058	25.72	25.70	1.03	1.03	NO	77.59	97.6	0.0644	
36	13C-1,2,3,4-TCDD	1142453.5...	0.791	NO	1.00	10.058	25.08	25.05	1.00	1.00	NO	198.8	100	0.233	
37	13C-1,2,3,4-TCDF	1812280.6...	0.786	NO	1.00	10.058	23.42	23.39	1.00	1.00	NO	198.8	100	0.295	
38	13C-1,2,3,4,6,9-HxCDF	1068274.7...	0.506	NO	1.00	10.058	33.52	33.52	1.00	1.00	NO	198.8	100	0.237	
39	Total Tetra-Dioxins				0.988	10.058	24.62		0.00		NO			0.128	
40	Total Penta-Dioxins				0.972	10.058	29.96		0.00		NO	3.582		0.330	3.582
41	Total Hexa-Dioxins				0.921	10.058	33.63		0.00		NO	74.40		0.614	76.17
42	Total Hepta-Dioxins				0.923	10.058	37.64		0.00		NO	793.2		1.68	793.2
43	Total Tetra-Furans				0.802	10.058	23.61		0.00		NO	6.244		0.300	7.714
44	1st Func. Penta-Furans				0.907	10.058	27.09		0.00		NO	2.419		0.110	2.419
45	Total Penta-Furans				0.907	10.058	29.27		0.00		NO	5.471		0.204	9.469
46	Total Hexa-Furans				0.898	10.058	33.56		0.00		NO	22.07		0.341	23.06
47	Total Hepta-Furans				0.851	10.058	37.83		0.00		NO	109.1		0.509	109.7

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-8.qld

Last Altered: Wednesday, February 12, 2020 11:54:13 Pacific Standard Time
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Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
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Name: 200202R2_8, Date: 03-Feb-2020, Time: 03:46:08, ID: 1903827-03 PDI-057SC-B-04-06-191023 17.03, Description: PDI-057SC-B-04-06-191023

Tetra-Dioxins

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

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	1.30e3	3.14e5	0.686	NO	29.96	29.87	0.8457	0.8457
2	40 Total Penta-Dioxins	5.39e2	3.14e5	0.674	NO	29.96	29.57	0.3513	0.3513
3	40 Total Penta-Dioxins	1.08e3	3.14e5	0.666	NO	29.96	29.39	0.7037	0.7037
4	40 Total Penta-Dioxins	7.99e2	3.14e5	0.673	NO	29.96	28.93	0.5209	0.5209
5	40 Total Penta-Dioxins	1.78e3	3.14e5	0.670	NO	29.96	28.42	1.160	1.160

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	2.44e3	0.00e0	1.182	NO	33.63	34.30	1.975	1.975
2	4 1,2,3,6,7,8-HxCDD	8.11e3	2.82e5	1.287	NO	34.09	34.10	6.215	6.215
3	3 1,2,3,4,7,8-HxCDD	6.78e2	2.43e5	1.018	YES	34.00	34.01	0.0000	0.4724
4	41 Total Hexa-Dioxins	2.66e3	0.00e0	1.302	NO	33.63	33.44	2.154	2.154
5	41 Total Hexa-Dioxins	3.64e4	0.00e0	1.221	NO	33.63	33.33	29.44	29.44
6	41 Total Hexa-Dioxins	3.98e3	0.00e0	1.309	NO	33.63	33.07	3.219	3.219
7	41 Total Hexa-Dioxins	3.88e4	0.00e0	1.209	NO	33.63	32.52	31.40	31.40
8	5 1,2,3,7,8,9-HxCDD	1.81e3	2.76e5	1.023	YES	34.40	34.38	0.0000	1.295

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	42 Total Hepta-Dioxins	5.01e5	2.51e5	1.016	NO	37.64	36.87	430.5	430.5
2	6 1,2,3,4,6,7,8-HpCDD	4.22e5	2.51e5	1.010	NO	37.92	37.93	362.7	362.7

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-8.qld

Last Altered: Wednesday, February 12, 2020 11:54:13 Pacific Standard Time

Printed: Wednesday, February 12, 2020 11:57:45 Pacific Standard Time

Name: 200202R2_8, Date: 03-Feb-2020, Time: 03:46:08, ID: 1903827-03 PDI-057SC-B-04-06-191023 17.03, Description: PDI-057SC-B-04-06-191023

Tetra-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	0.00e0	5.37e5	0.610	YES	23.61	22.20	0.0000	0.4244
2	43 Total Tetra-Furans	1.48e3	5.37e5	0.748	NO	23.61	21.72	0.6820	0.6820
3	43 Total Tetra-Furans	1.83e3	5.37e5	0.837	NO	23.61	20.77	0.8449	0.8449
4	43 Total Tetra-Furans	0.00e0	5.37e5	1.322	YES	23.61	26.83	0.0000	0.2585
5	8 2,3,7,8-TCDF	4.81e3	5.37e5	0.774	NO	24.83	24.82	2.220	2.220
6	43 Total Tetra-Furans	5.81e2	5.37e5	0.809	NO	23.61	24.72	0.2682	0.2682
7	43 Total Tetra-Furans	4.83e3	5.37e5	0.728	NO	23.61	23.89	2.229	2.229
8	43 Total Tetra-Furans	0.00e0	5.37e5	0.952	YES	23.61	23.31	0.0000	0.5082
9	43 Total Tetra-Furans	0.00e0	5.37e5	0.587	YES	23.61	23.42	0.0000	0.2788

Penta-Furans function 1

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	5.24e3	0.00e0	1.402	NO	27.09	26.81	2.419	2.419

Penta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	10 2,3,4,7,8-PeCDF	3.26e3	4.58e5	1.397	NO	30.36	30.36	1.488	1.488
2	45 Total Penta-Furans	0.00e0	0.00e0	2.187	YES	29.27	29.64	0.0000	1.046
3	9 1,2,3,7,8-PeCDF	7.41e3	4.92e5	1.478	NO	29.38	29.37	3.305	3.305
4	45 Total Penta-Furans	0.00e0	0.00e0	1.924	YES	29.27	29.20	0.0000	0.3367
5	45 Total Penta-Furans	1.47e3	0.00e0	1.509	NO	29.27	28.97	0.6782	0.6782
6	45 Total Penta-Furans	0.00e0	0.00e0	1.894	YES	29.27	28.39	0.0000	1.966
7	45 Total Penta-Furans	0.00e0	0.00e0	1.548	NO	29.27	30.38	0.0000	0.6501

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-8.qld

Last Altered: Wednesday, February 12, 2020 11:54:13 Pacific Standard Time

Printed: Wednesday, February 12, 2020 11:57:45 Pacific Standard Time

Name: 200202R2_8, Date: 03-Feb-2020, Time: 03:46:08, ID: 1903827-03 PDI-057SC-B-04-06-191023 17.03, Description: PDI-057SC-B-04-06-191023

Hexa-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	2.07e2	2.69e5	1.150	NO	34.72	34.75	0.1783	0.1783
2	13 2,3,4,6,7,8-HxCDF	8.19e2	3.07e5	1.200	NO	33.86	33.84	0.5911	0.5911
3	12 1,2,3,6,7,8-HxCDF	1.84e3	3.43e5	1.069	NO	33.25	33.26	1.270	1.270
4	11 1,2,3,4,7,8-HxCDF	7.07e3	3.19e5	1.143	NO	33.12	33.13	5.107	5.107
5	46 Total Hexa-Furans	1.72e4	0.00e0	1.145	NO	33.56	32.69	12.27	12.27
6	46 Total Hexa-Furans	3.72e3	0.00e0	1.336	NO	33.56	32.13	2.657	2.657
7	46 Total Hexa-Furans	0.00e0	0.00e0	0.852	YES	33.56	31.96	0.0000	0.4862
8	46 Total Hexa-Furans	0.00e0	0.00e0	1.509	YES	33.56	34.78	0.0000	0.5042

Hepta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	1.50e3	1.71e5	0.930	NO	38.50	38.50	1.776	1.776
2	47 Total Hepta-Furans	7.47e4	0.00e0	0.984	NO	37.83	37.10	89.19	89.19
3	47 Total Hepta-Furans	0.00e0	0.00e0	1.051	NO	37.83	36.88	0.0000	0.5777
4	15 1,2,3,4,6,7,8-HpCDF	1.71e4	2.20e5	0.970	NO	36.52	36.49	18.12	18.12

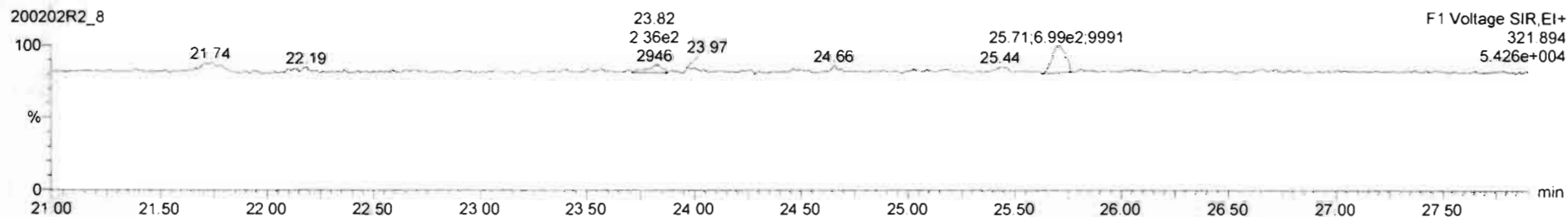
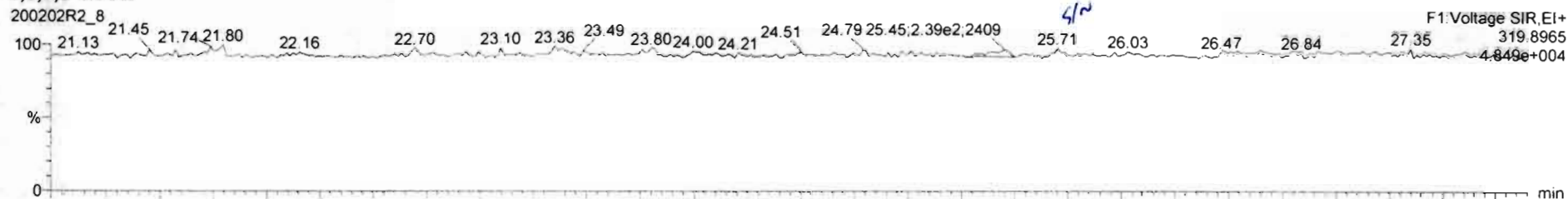
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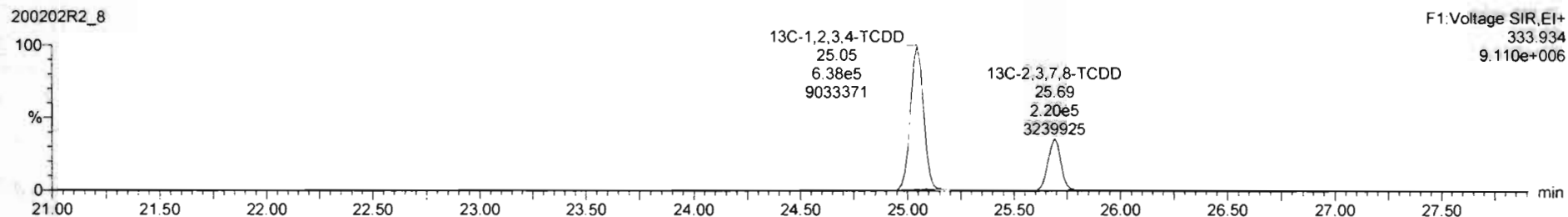
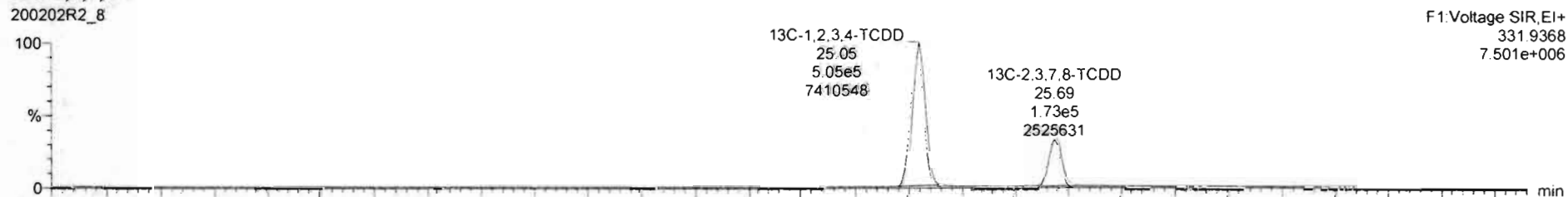
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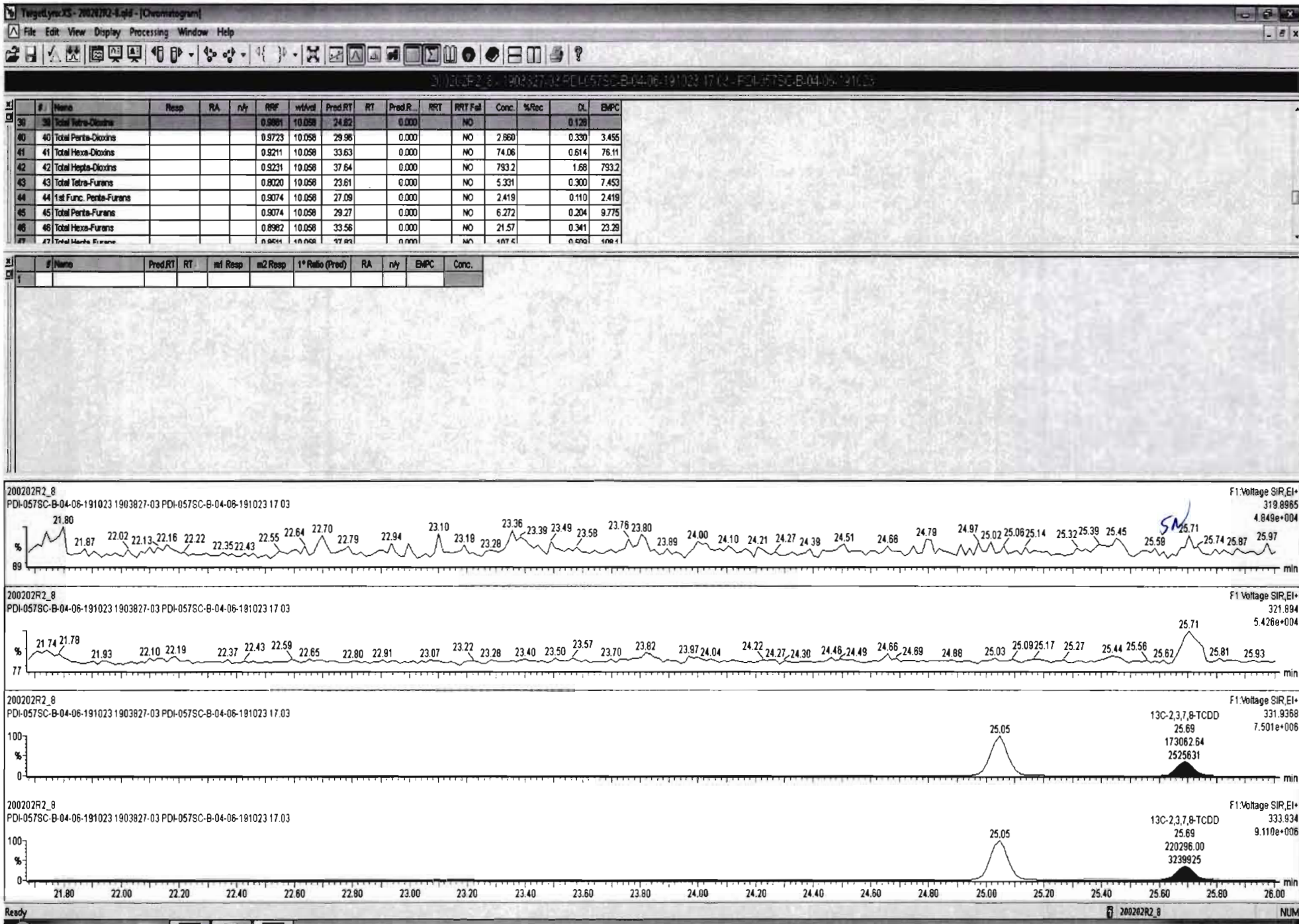
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2,3,7,8-TCDD



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





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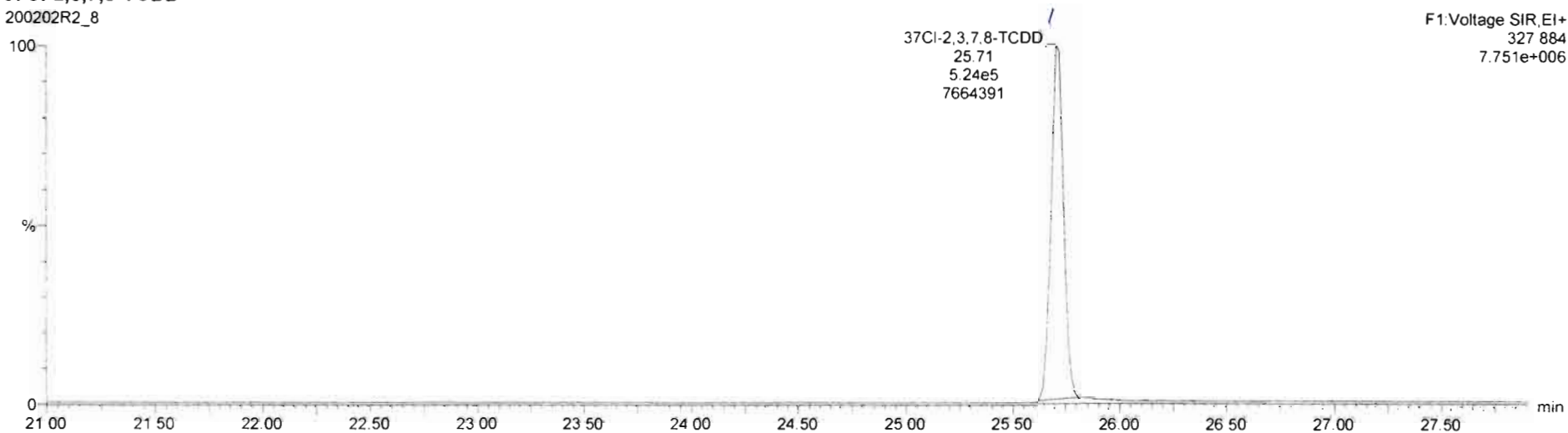
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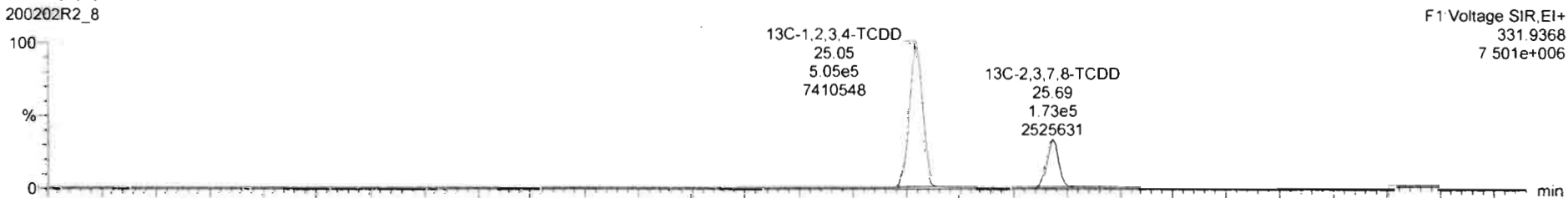
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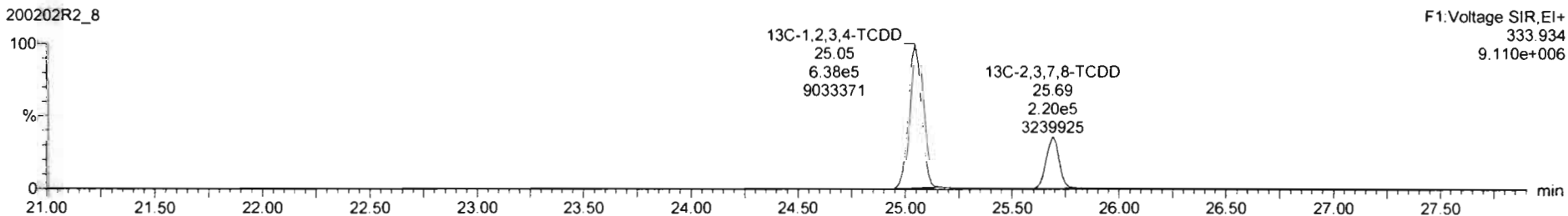


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200202R2_8



200202R2_8



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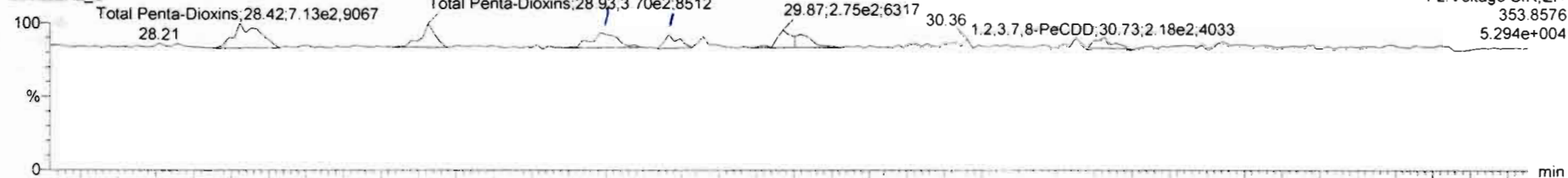
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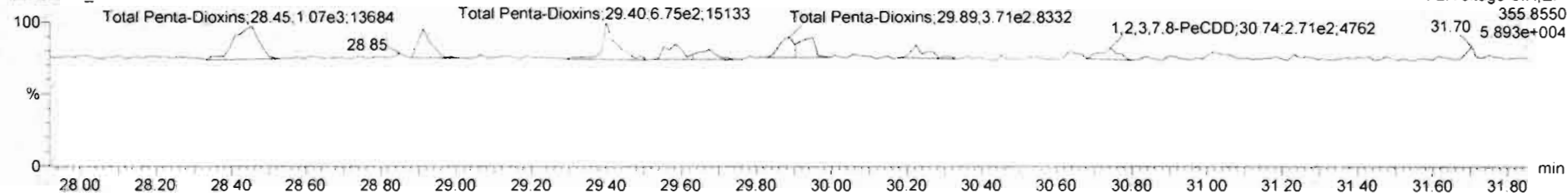
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1,2,3,7,8-PeCDD

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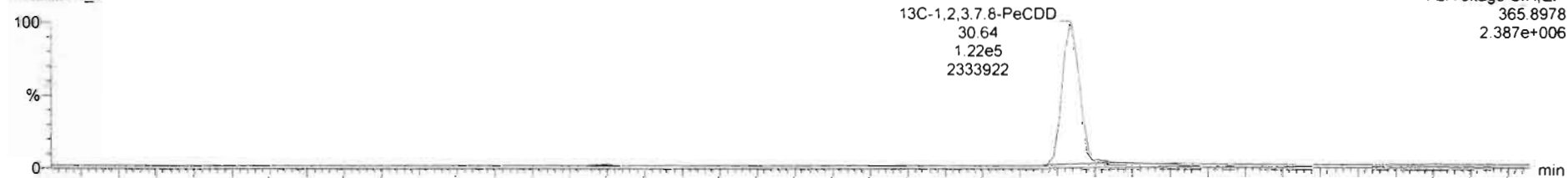


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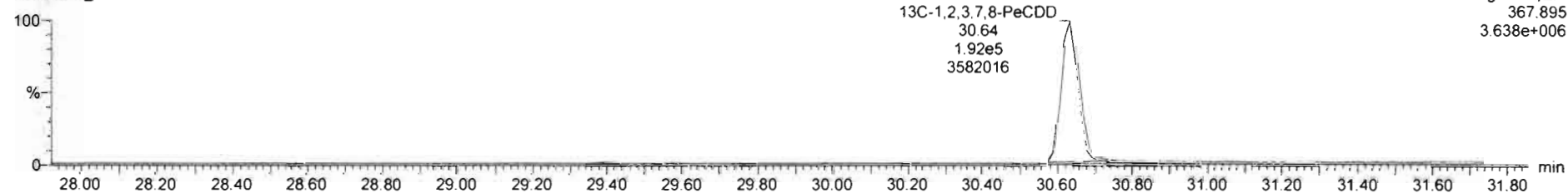


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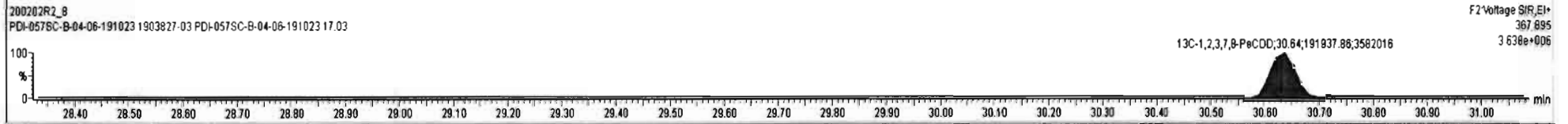
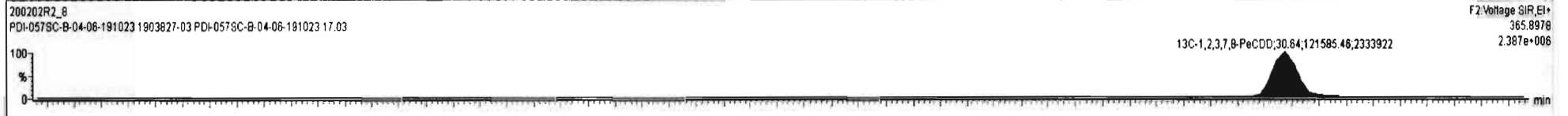
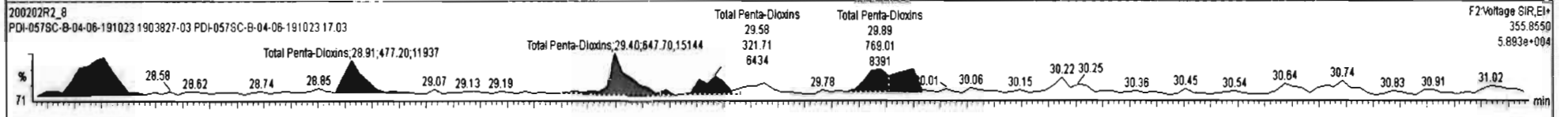
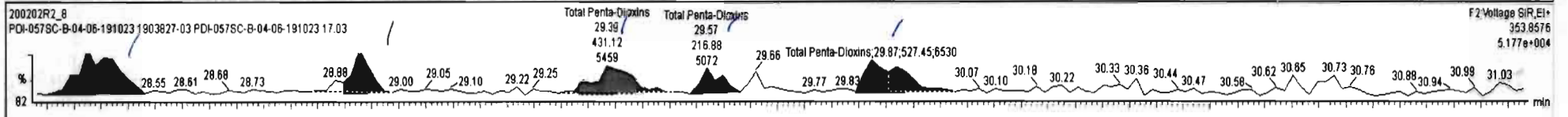


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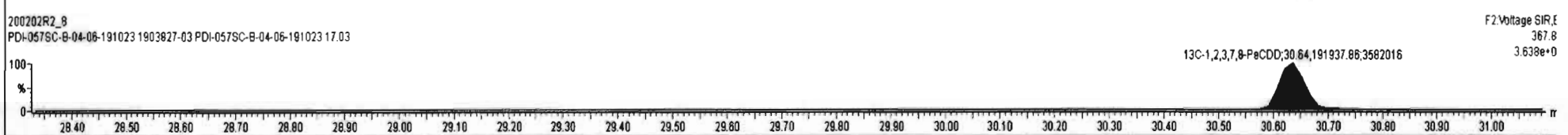
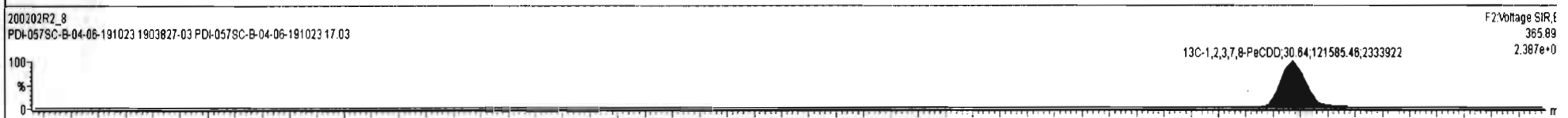
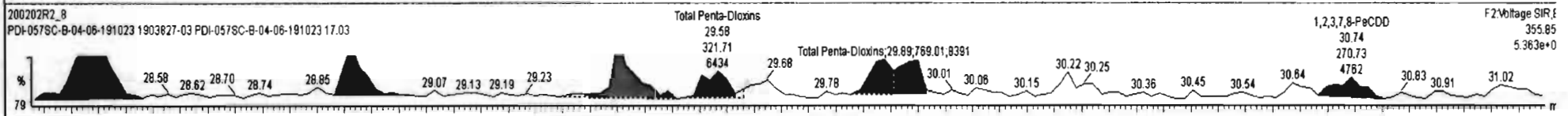
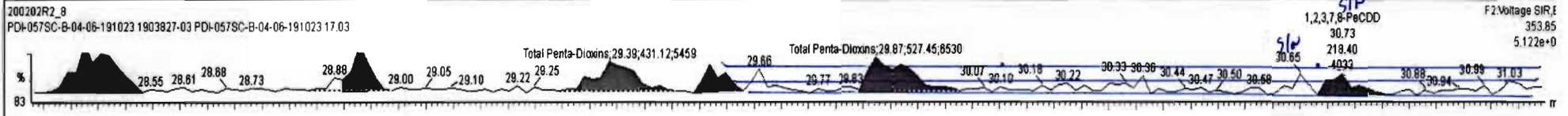
#	Name	Resp	RA	n/y	R/R	wtVol	Pred RT	RT	Pred R.	RRT	RRT Fail	Conc.	%Rec.	DL	BaPC
39	Total Tetra-Dioxins				0.9861	10.058	24.62		0.000		NO			0.128	
40	Total Penta-Dioxins				0.9723	10.058	29.96		0.000		NO	3.582		0.330	3.582
41	Total Hexa-Dioxins				0.8211	10.058	33.63		0.000		NO	74.06		0.614	76.11
42	Total Hepta-Dioxins				0.8231	10.058	37.64		0.000		NO	793.2		1.68	793.2
43	Total Tetra-Furans				0.8020	10.058	23.61		0.000		NO	5.331		0.300	7.453
44	1st Func. Penta-Furans				0.9074	10.058	27.09		0.000		NO	2.419		0.110	2.419
45	Total Penta-Furans				0.9074	10.058	29.27		0.000		NO	6.272		0.204	9.775
46	Total Hexa-Furans				0.8982	10.058	33.56		0.000		NO	21.57		0.341	23.28
47	Total Hepta-Furans				0.8644	10.058	37.93		0.000		NO	497.5		0.500	508.4

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	29.96	28.42	7.134e2	1.065e3	0.530	0.67	NO	1.1601	1.1601
2	40 Total Penta-Dioxins	29.96	28.93	3.213e2	4.772e2	0.630	0.67	NO	0.52090	0.52090
3	40 Total Penta-Dioxins	29.96	29.39	4.311e2	6.477e2	0.530	0.67	NO	0.70373	0.70373
4	40 Total Penta-Dioxins	29.96	29.57	2.169e2	3.217e2	0.630	0.67	NO	0.35133	0.35133
5	40 Total Penta-Dioxins	29.96	29.87	5.275e2	7.690e2	0.530	0.69	NO	0.84570	0.84570



#	Name	Resp	RA	n/y	RRF	wt/Std	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9861	10.058	24.52		0.000		NO			0.128	
40	Total Penta-Dioxins				0.9723	10.058	29.96		0.000		NO	3.962		0.330	3.970
41	Total Hexa-Dioxins				0.9211	10.058	33.63		0.000		NO	74.06		0.614	76.11
42	Total Hepta-Dioxins				0.8231	10.058	37.64		0.000		NO	793.2		1.68	793.2
43	Total Tetra-Furans				0.8020	10.058	23.61		0.000		NO	5.331		0.300	7.453
44	1st Func. Penta-Furans				0.9074	10.058	27.09		0.000		NO	2.418		0.110	2.419
45	Total Penta-Furans				0.9074	10.058	29.27		0.000		NO	6.272		0.204	9.775
46	Total Hexa-Furans				0.8962	10.058	33.96		0.000		NO	21.57		0.341	23.29
47	Total Horda. Furane				0.9644	10.058	37.93		0.000		NO	107.6		0.600	108.4

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	29.96	28.42	7.134e2	1.065e3	0.630	0.67	NO	1.1601	1.1601
2	40 Total Penta-Dioxins	29.96	28.93	3.213e2	4.772e2	0.630	0.67	NO	0.52090	0.52090
3	40 Total Penta-Dioxins	29.96	29.39	4.311e2	6.477e2	0.630	0.67	NO	0.70373	0.70373
4	40 Total Penta-Dioxins	29.96	29.57	2.169e2	3.217e2	0.630	0.67	NO	0.35133	0.35133
5	40 Total Penta-Dioxins	29.96	29.87	5.275e2	7.690e2	0.630	0.69	NO	0.84570	0.84570
6	2 1,2,3,7,8-PeCDD	30.06	30.73	2.164e2	2.707e2	0.630	0.81	YES	0.28786	0.00000



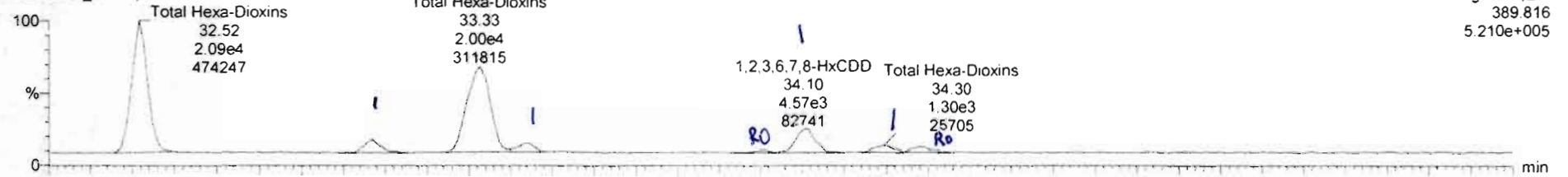
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Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

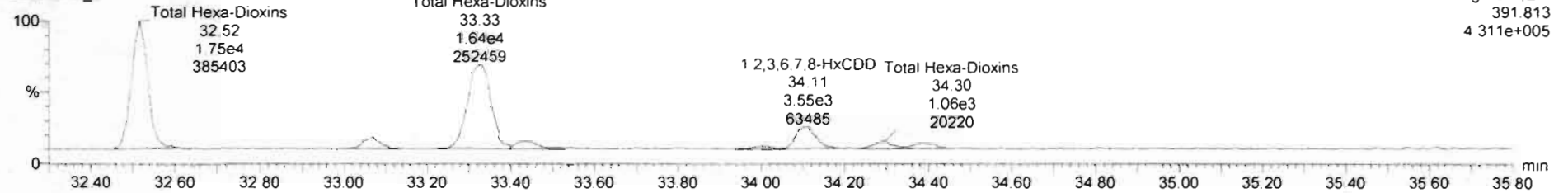
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1,2,3,4,7,8-HxCDD

200202R2_8

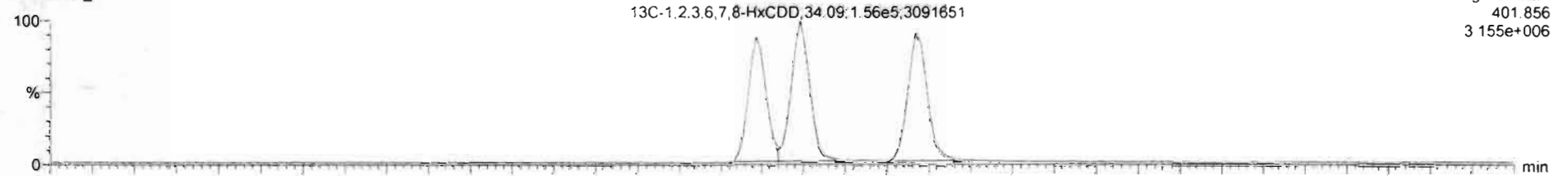


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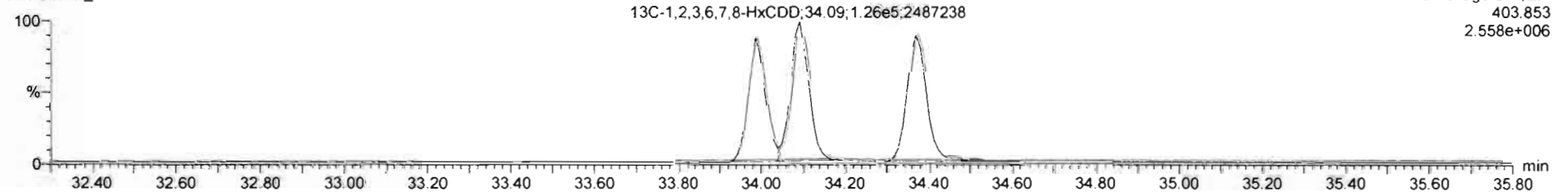


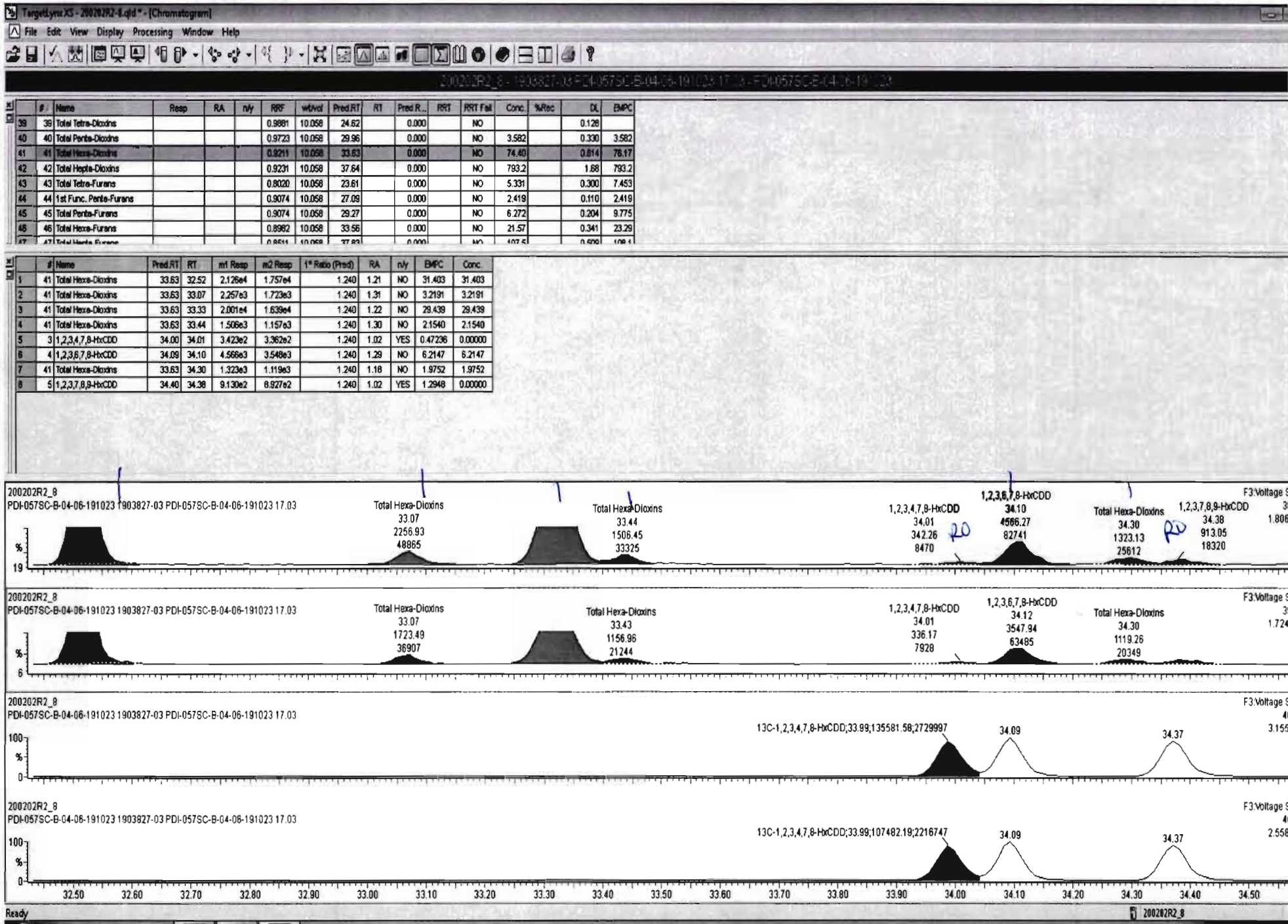
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200202R2_8



200202R2_8





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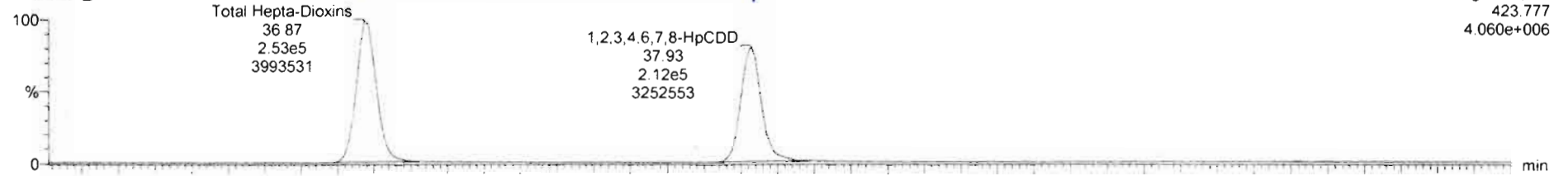
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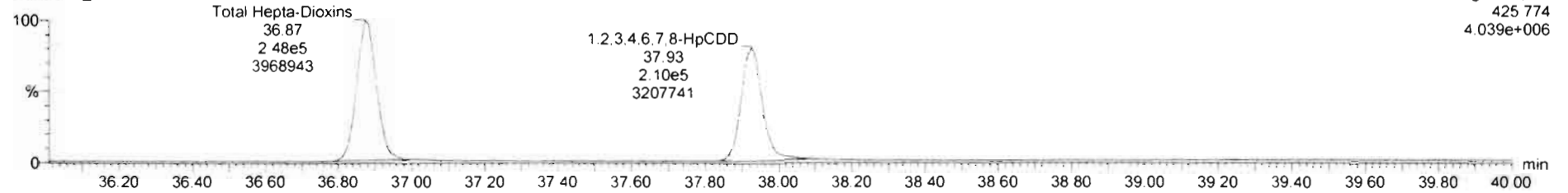
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1,2,3,4,6,7,8-HpCDD

200202R2_8

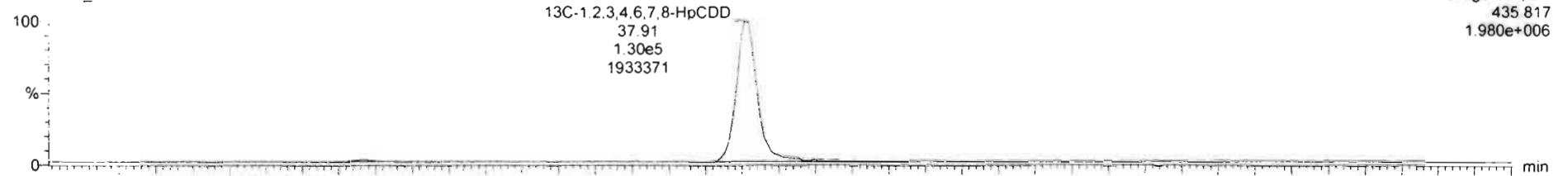


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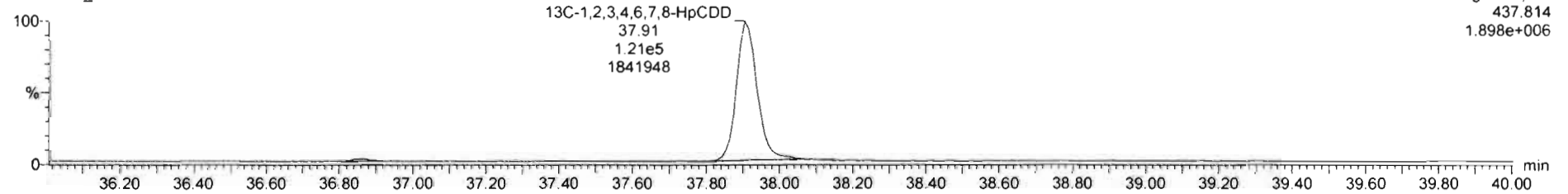


13C-1,2,3,4,6,7,8-HpCDD

200202R2_8



200202R2_8



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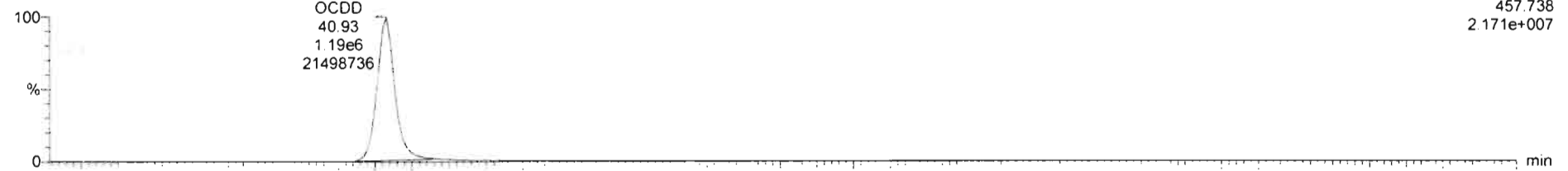
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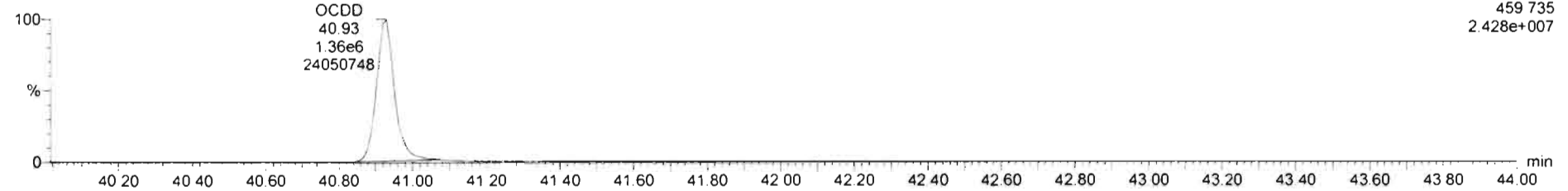
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OCDD

200202R2_8

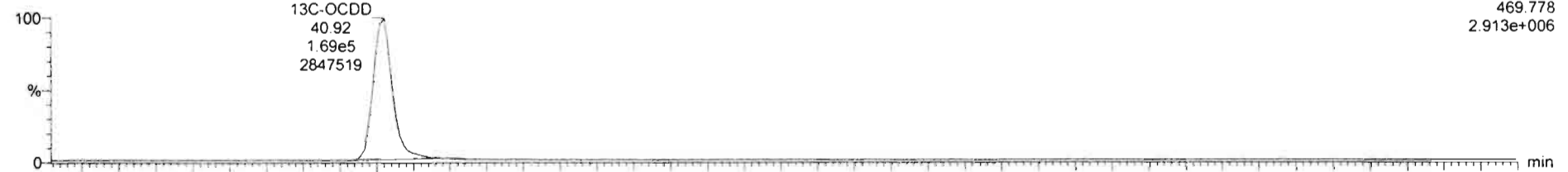


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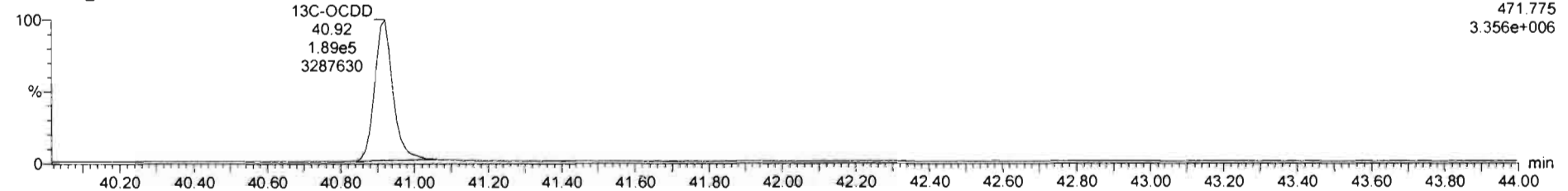


13C-OCDD

200202R2_8



200202R2_8

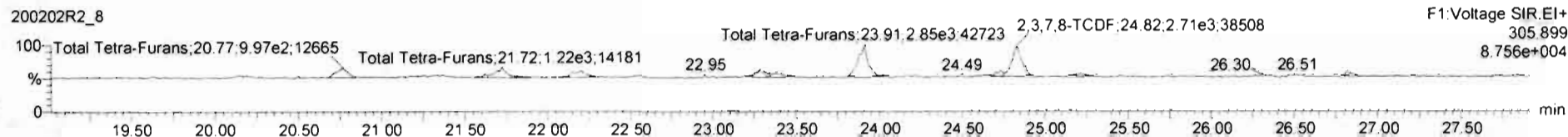
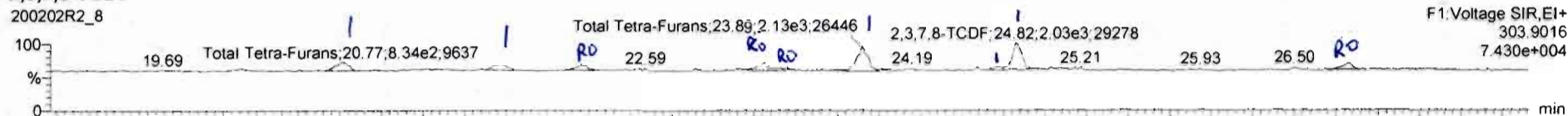


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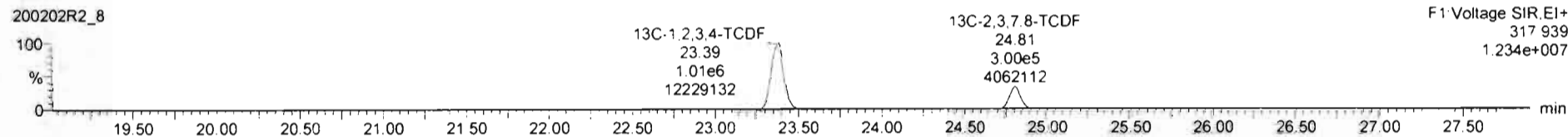
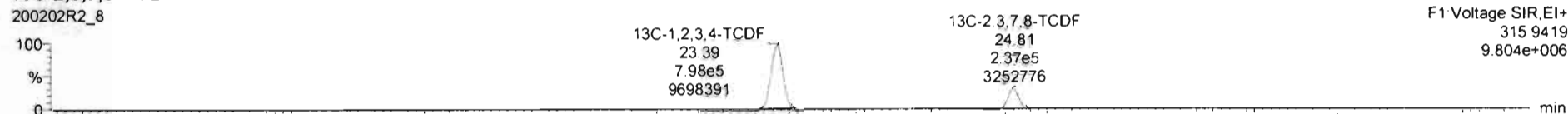
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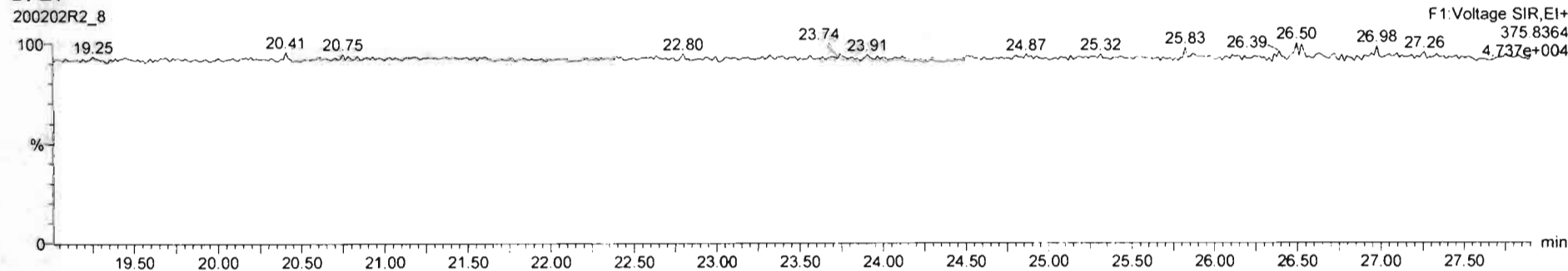
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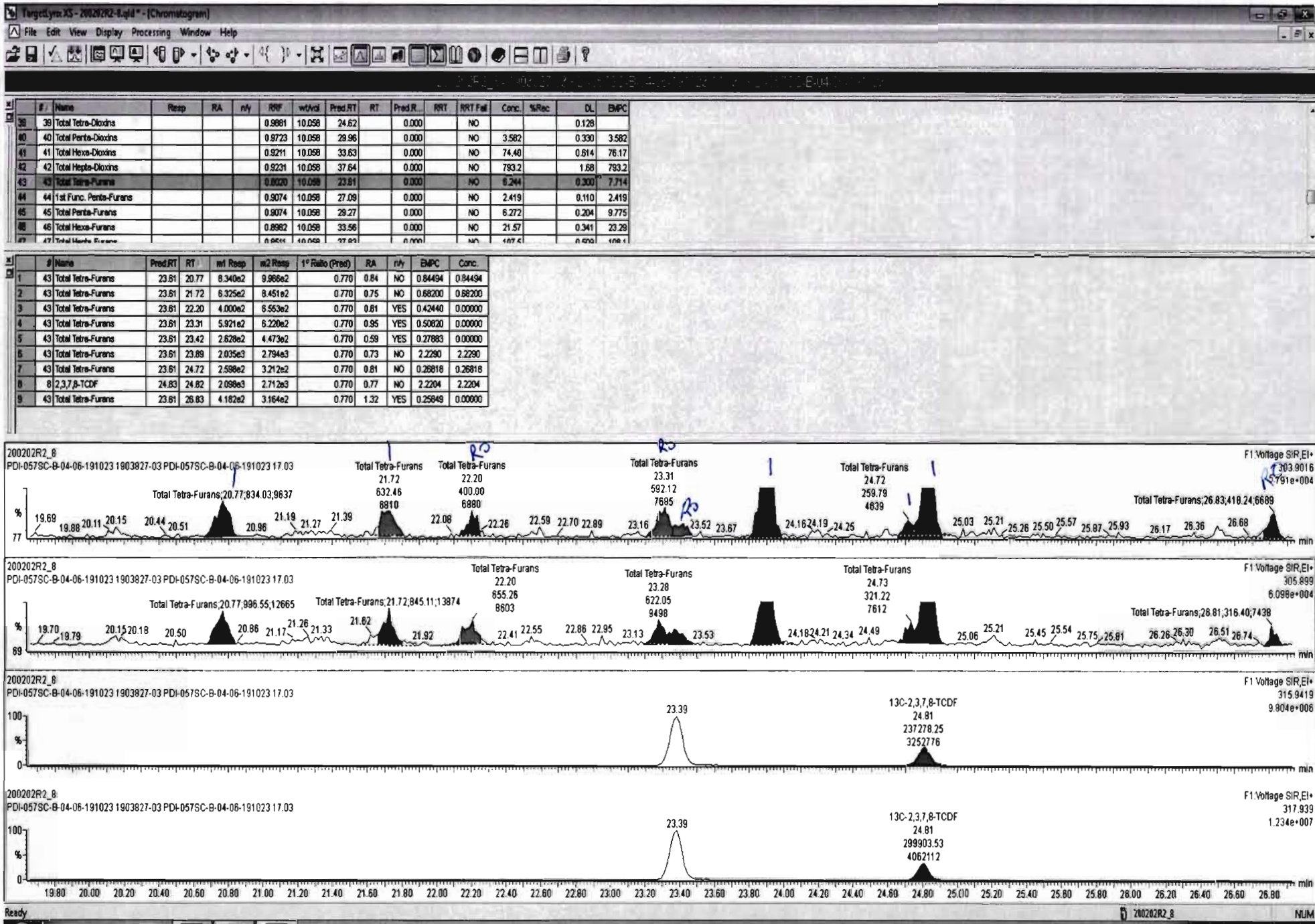


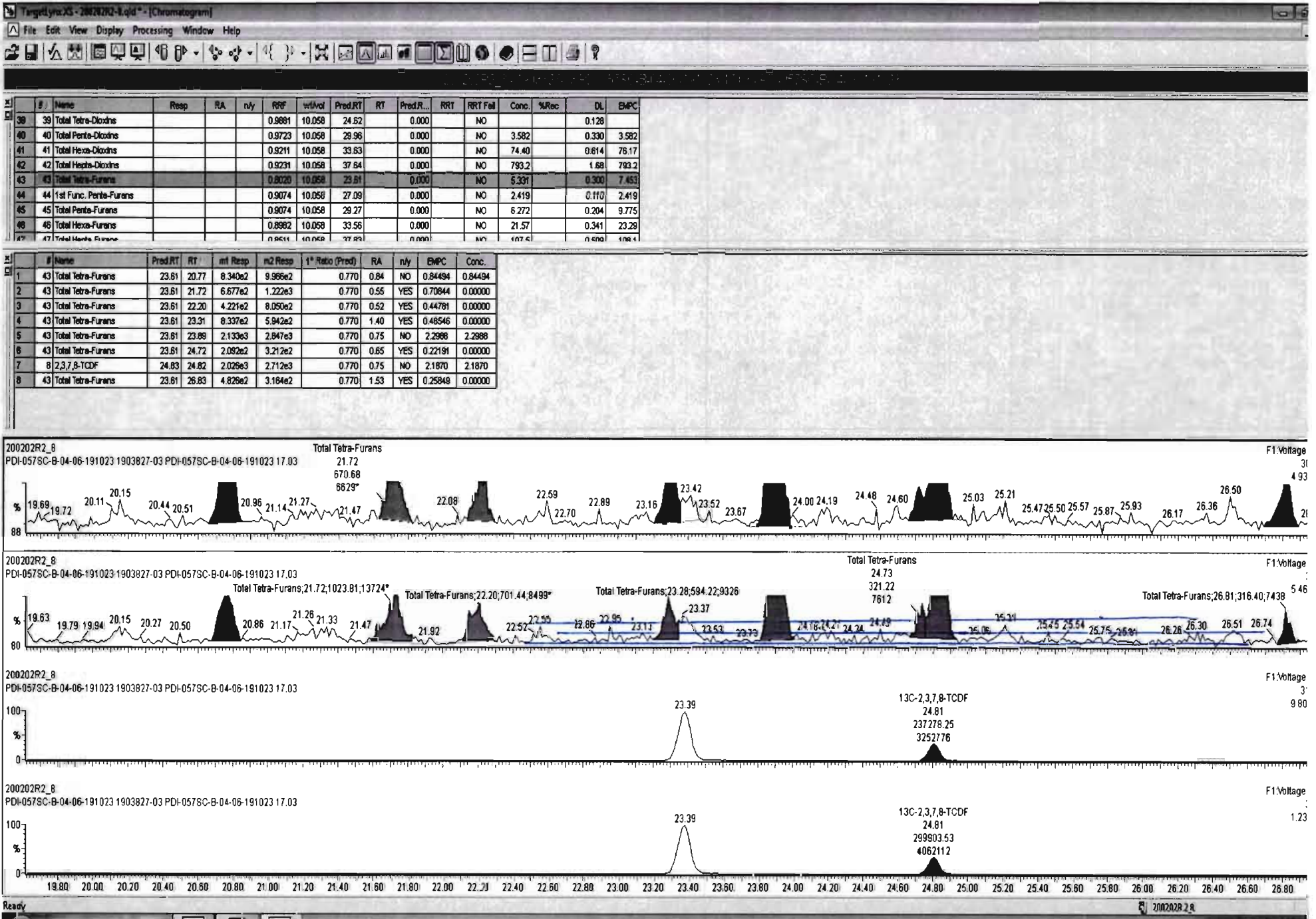
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DPE1







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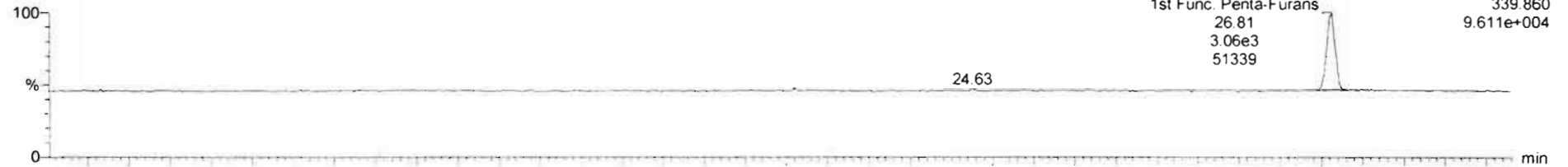
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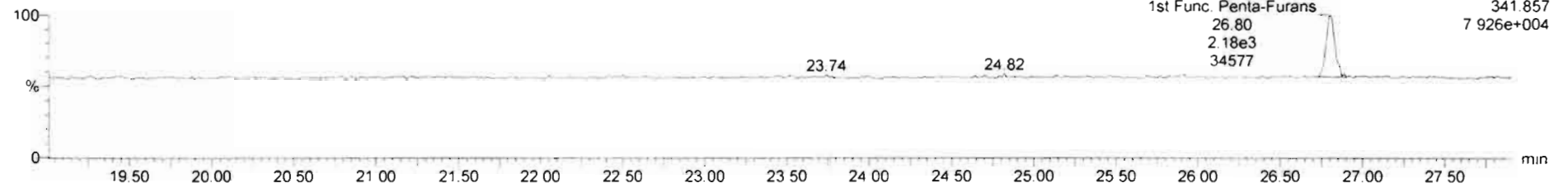
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1st Func. Penta-Furans

200202R2_8

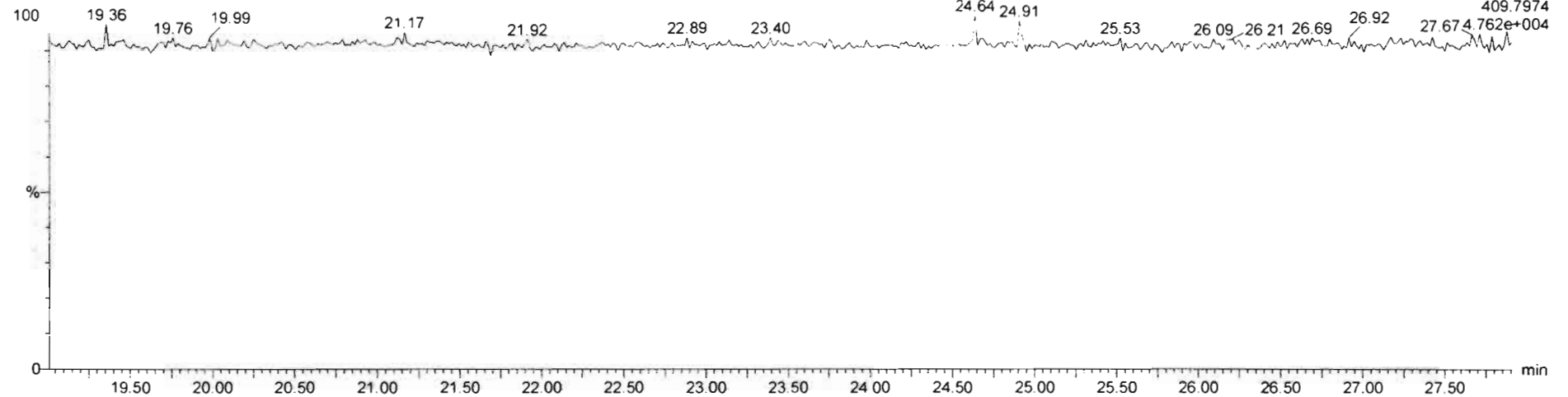


200202R2_8



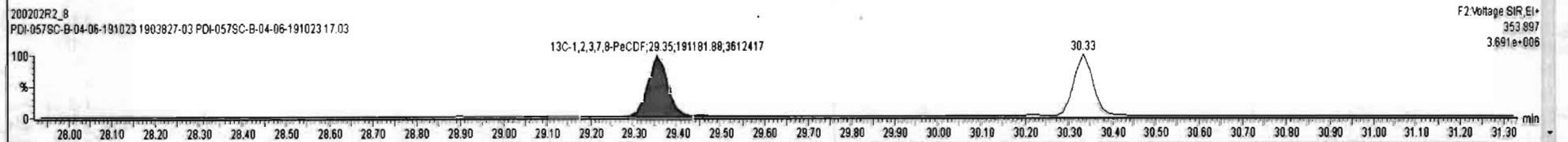
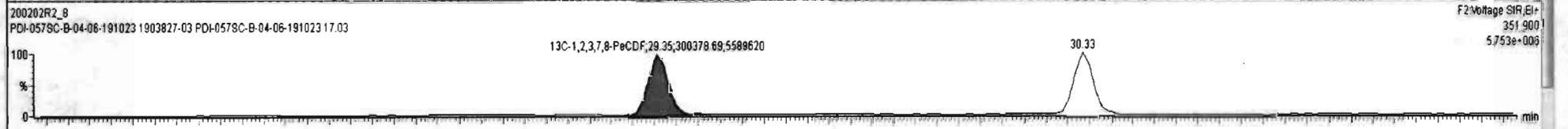
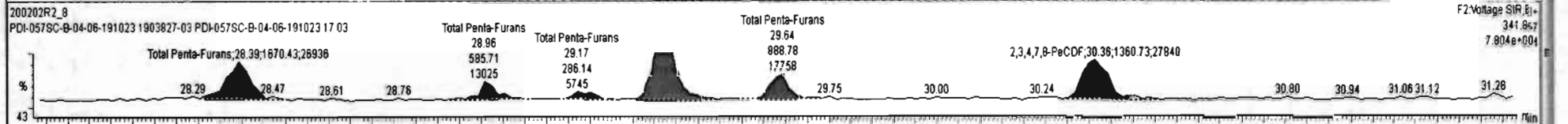
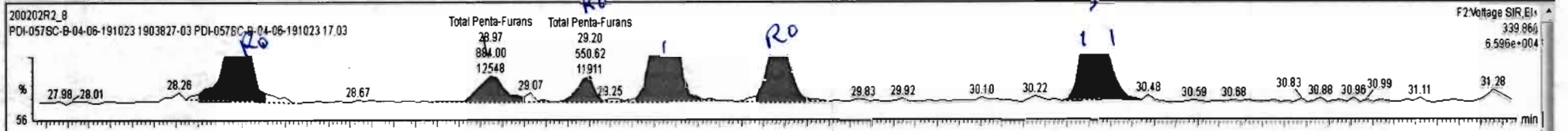
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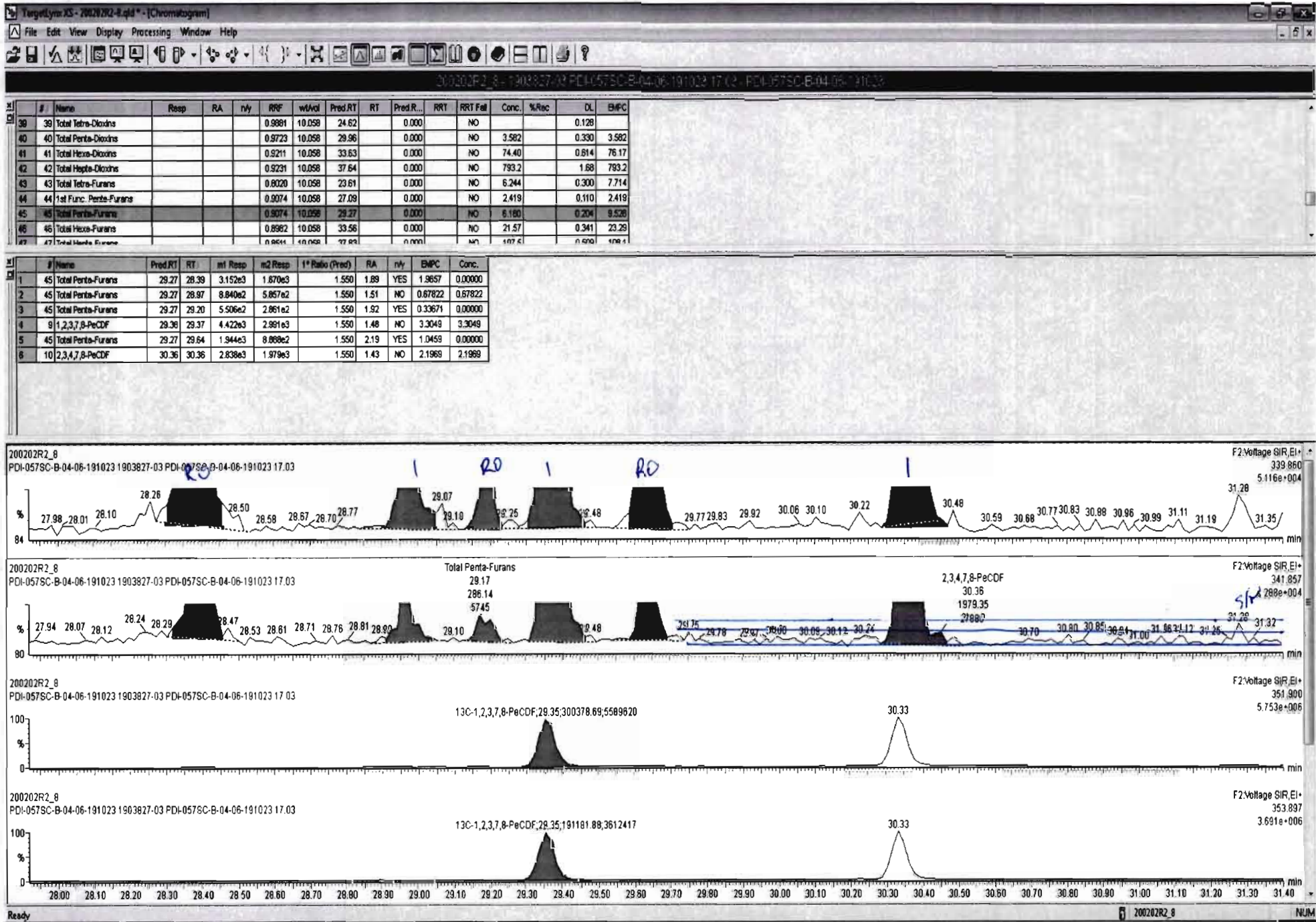
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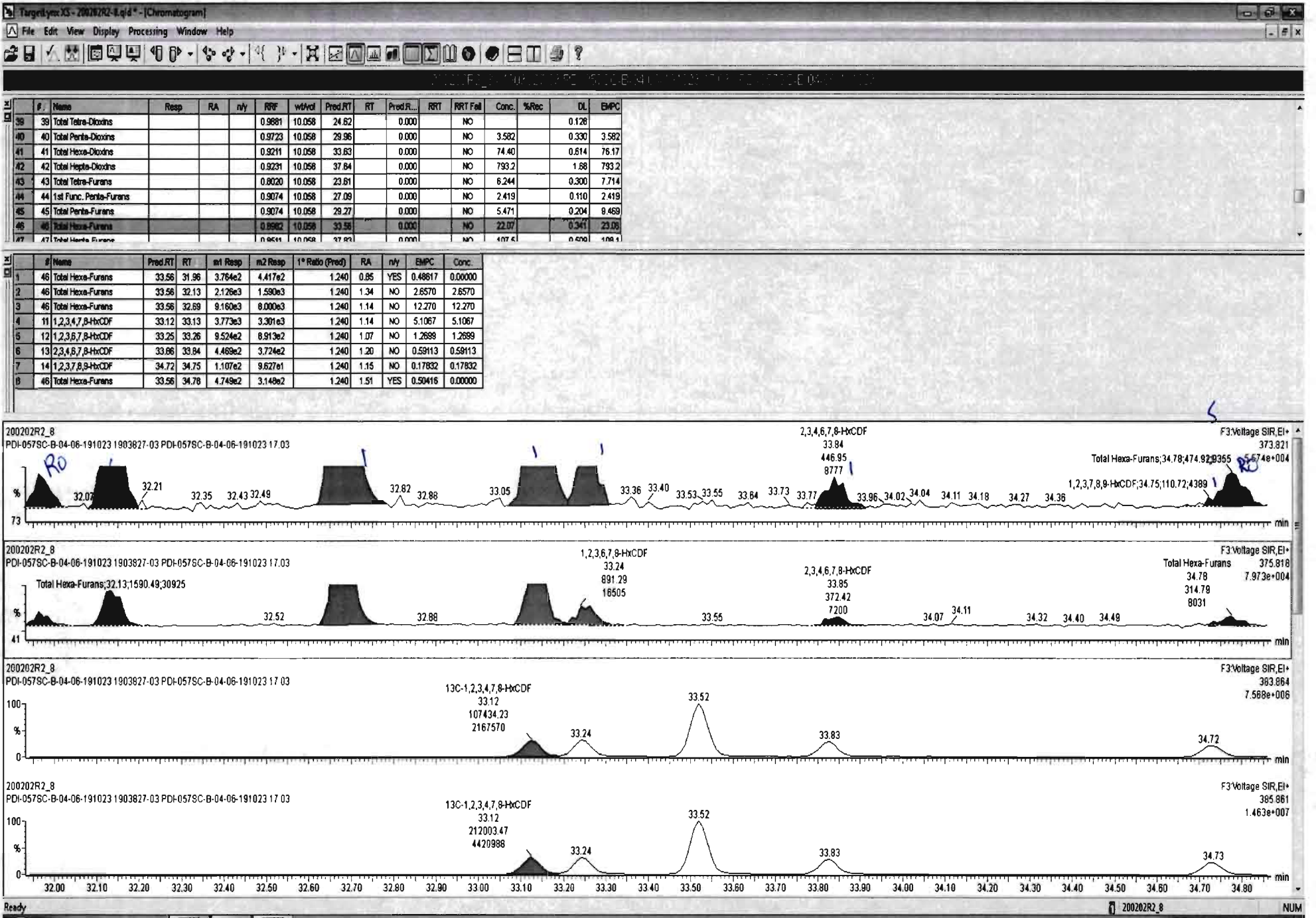


#	Name	Resp	RA	n/y	RF	w/Acd	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.058	24.62		0.000		NO			0.128	
40	Total Penta-Dioxins				0.9723	10.058	29.96		0.000		NO	3.582		0.330	3.582
41	Total Hexa-Dioxins				0.9211	10.058	33.63		0.000		NO	74.40		0.614	76.17
42	Total Hepta-Dioxins				0.9231	10.058	37.64		0.000		NO	793.2		1.88	793.2
43	Total Tetra-Furans				0.8020	10.058	23.61		0.000		NO	6.244		0.300	7.714
44	1st Func. Penta-Furans				0.9074	10.058	27.09		0.000		NO	2.419		0.110	2.419
45	Total Penta-Furans				0.9074	10.058	29.27		0.000		NO	5.471		0.204	8.468
46	Total Hexa-Furans				0.8982	10.058	33.56		0.000		NO	21.57		0.341	23.29
47	Total Hepta-Furans				0.8511	10.058	37.83		0.000		NO	407.4		0.400	408.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	29.27	28.39	3.163e3	1.670e3	1.550	1.88	YES	1.9657	0.00000
2	45 Total Penta-Furans	29.27	28.97	8.840e2	5.857e2	1.550	1.51	NO	0.67822	0.67822
3	45 Total Penta-Furans	29.27	29.20	5.508e2	2.861e2	1.550	1.92	YES	0.33671	0.00000
4	9 1,2,3,7,8-PeCDF	29.38	29.37	4.422e3	2.991e3	1.550	1.48	NO	3.3049	3.3049
5	45 Total Penta-Furans	29.27	29.64	1.944e3	8.888e2	1.550	2.19	YES	1.0459	0.00000
6	10 2,3,4,7,8-PeCDF	30.36	30.36	1.901e3	1.361e3	1.550	1.40	NO	1.4876	1.4876
7	45 Total Penta-Furans	29.27	30.38	8.559e2	5.529e2	1.550	1.55	NO	0.65010	0.00000





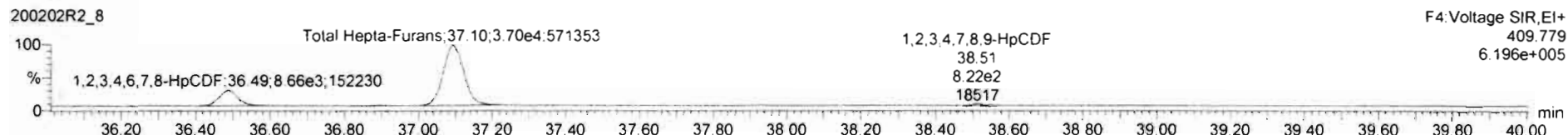


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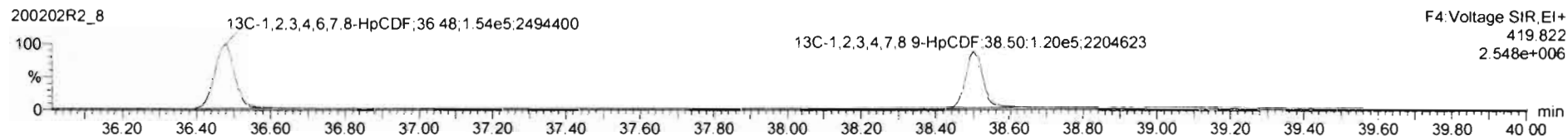
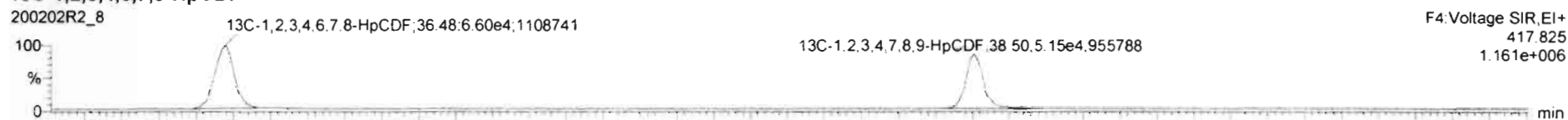
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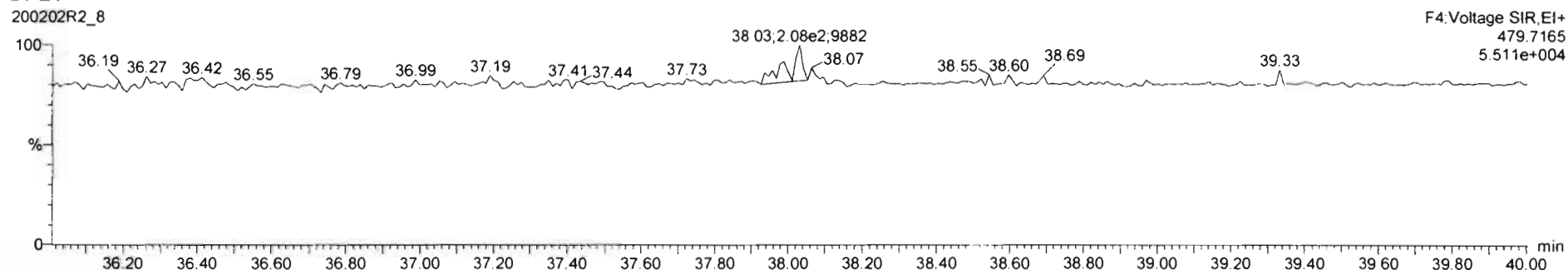
1,2,3,4,6,7,8-HpCDF

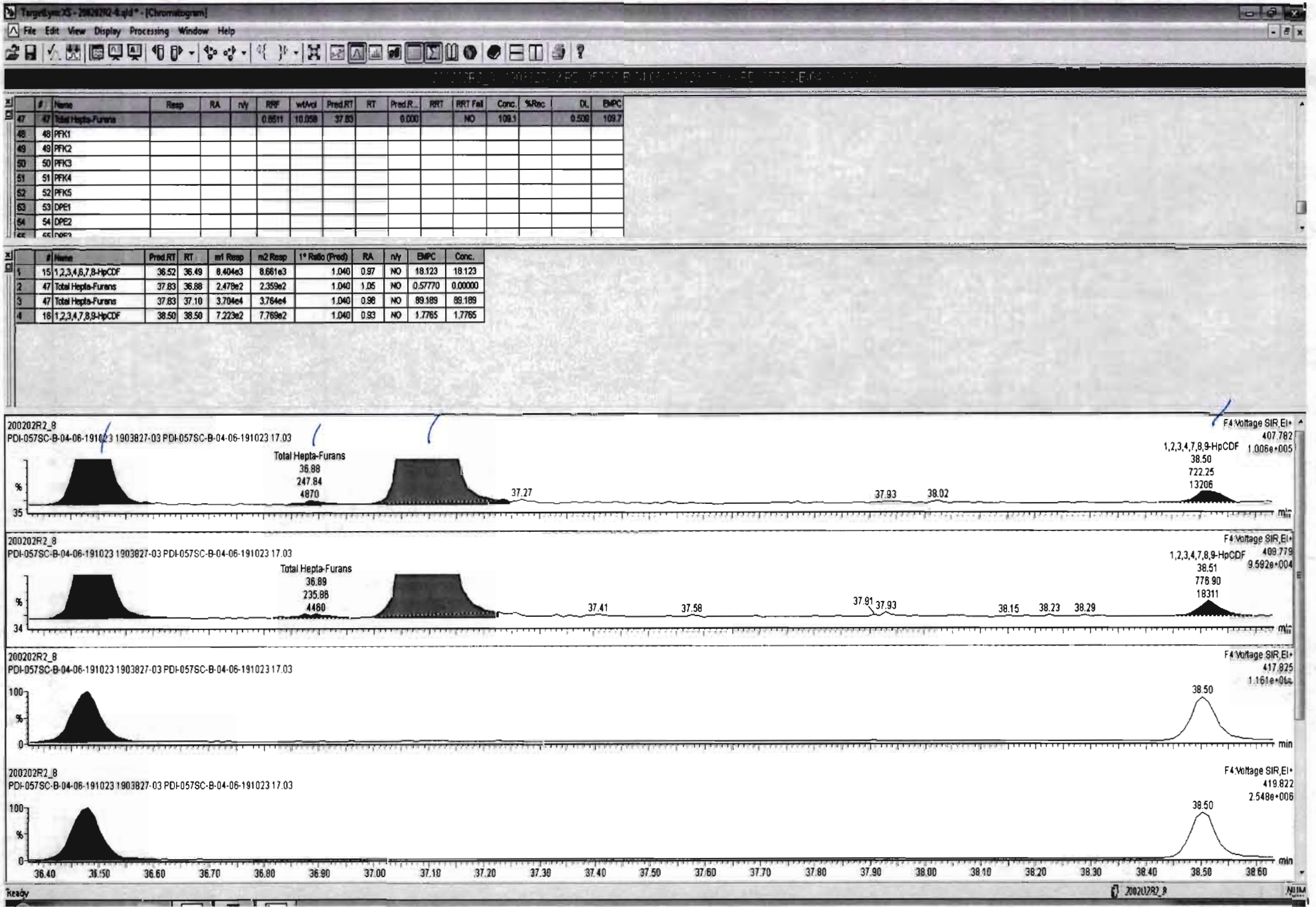


13C-1,2,3,4,6,7,8-HpCDF



DPE4

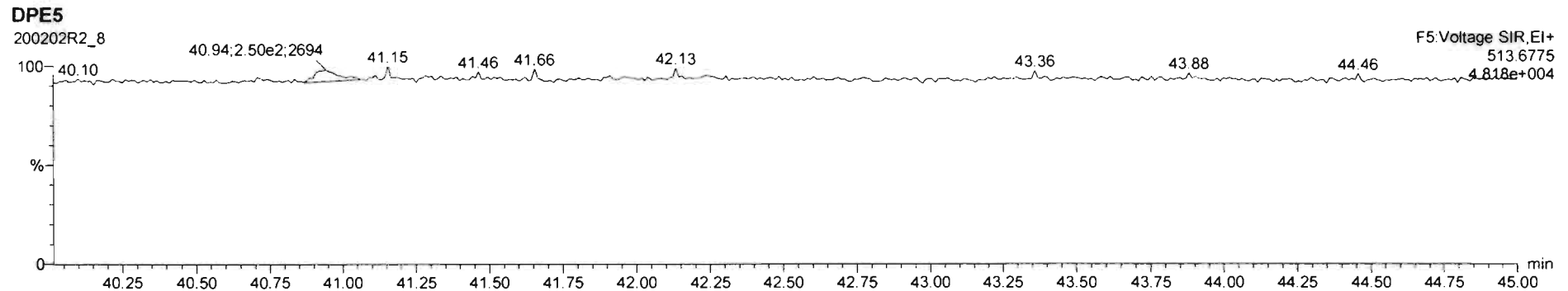
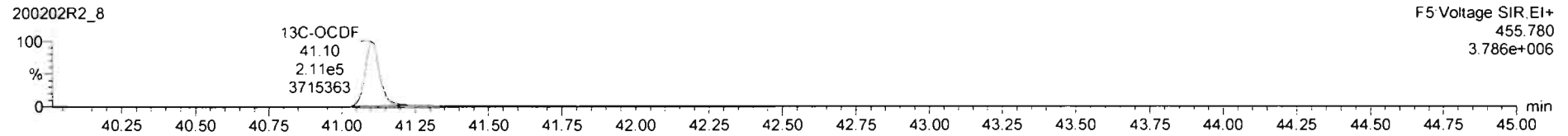
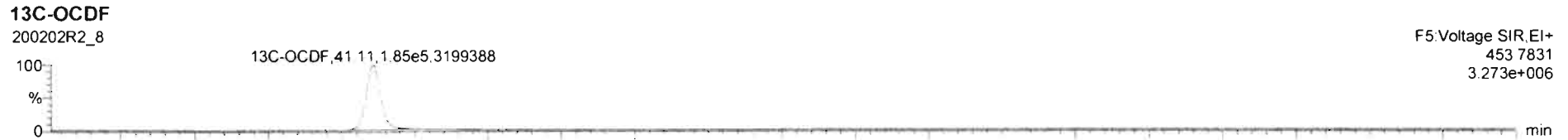
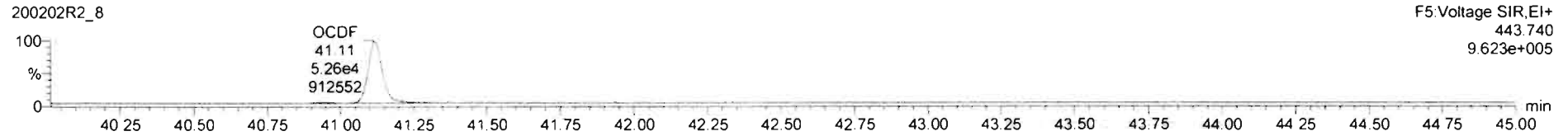
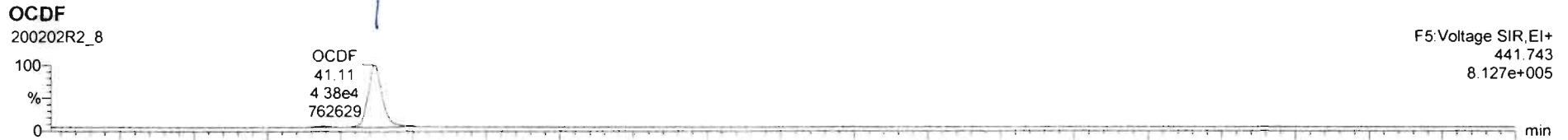




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Name: 200202R2_8, Date: 03-Feb-2020, Time: 03:46:08, ID: 1903827-03 PDI-057SC-B-04-06-191023 17.03, Description: PDI-057SC-B-04-06-191023

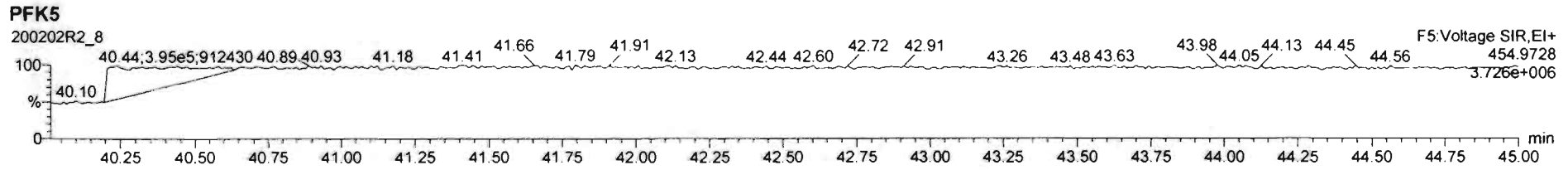
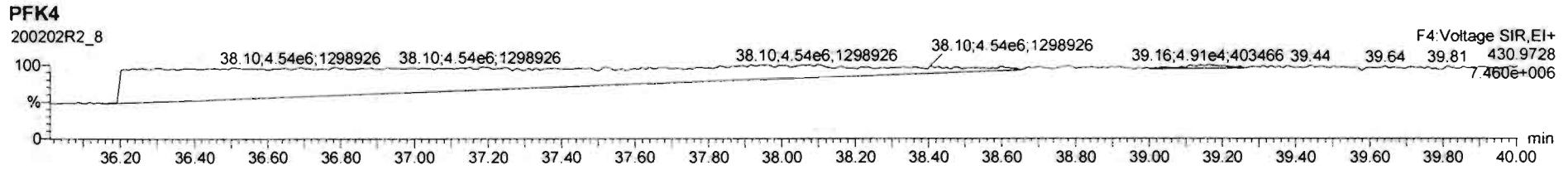
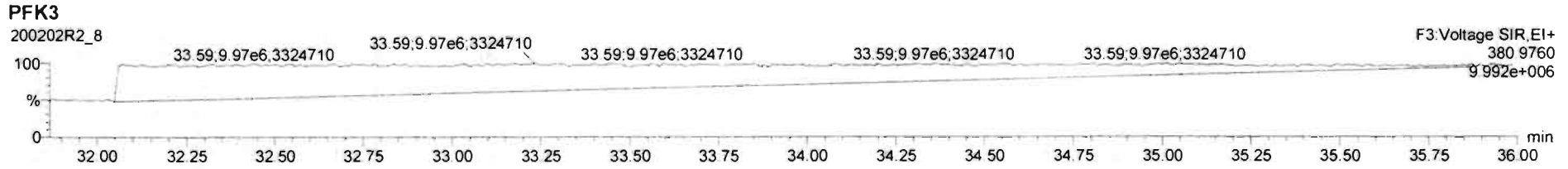
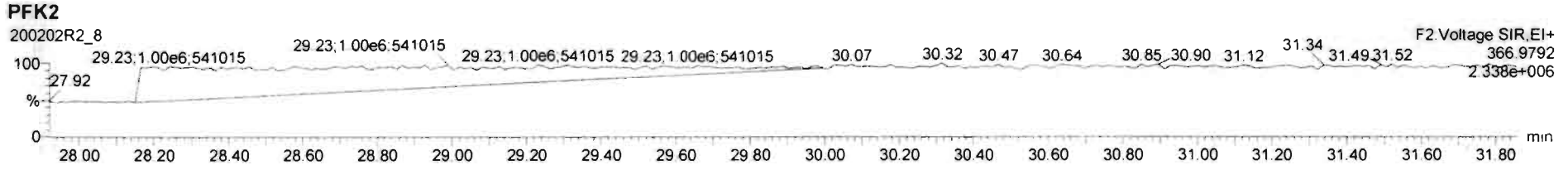
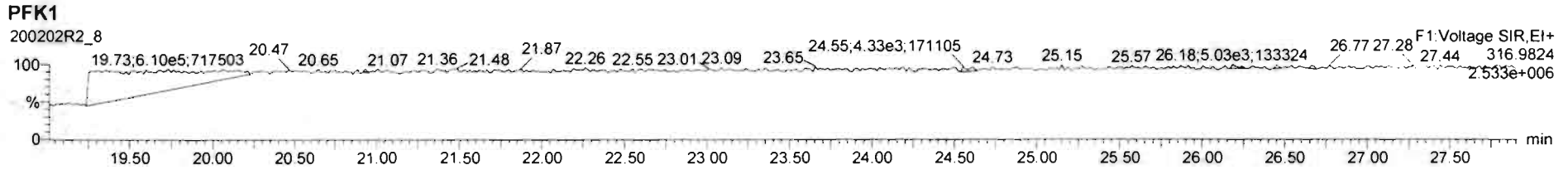


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HN 02/12/2020

C1 02/14/2020

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1	1 2,3,7,8-TCDD													0.144	
2	2 1,2,3,7,8-PeCDD				0.972	10.002	30.64		1.00		NO			0.138	
3	3 1,2,3,4,7,8-HxCDD				1.07	10.002	33.99		1.00		NO			0.107	
4	4 1,2,3,6,7,8-HxCDD				0.921	10.002	34.08		1.00		NO			0.110	
5	5 1,2,3,7,8,9-HxCDD				0.918	10.002	34.39		1.00		NO			0.117	
6	6 1,2,3,4,6,7,8-HpCDD	932.632	1.017	NO	0.923	10.002	37.91	37.93	1.00	1.00	NO	0.4655		0.179	0.4655
7	7 OCDD	4747.394	0.925	NO	0.975	10.002	40.90	40.91	1.00	1.00	NO	2.747		0.234	2.747
8	8 2,3,7,8-TCDF				0.802	10.002	24.82		1.00		NO			0.132	
9	9 1,2,3,7,8-PeCDF				0.907	10.002	29.36		1.00		NO			0.107	
10	10 2,3,4,7,8-PeCDF				0.952	10.002	30.35		1.00		NO			0.0963	
11	11 1,2,3,4,7,8-HxCDF				0.862	10.002	33.10		1.00		NO			0.0981	
12	12 1,2,3,6,7,8-HxCDF				0.841	10.002	33.24		1.00		NO			0.0911	
13	13 2,3,4,6,7,8-HxCDF				0.898	10.002	33.84		1.00		NO			0.0929	
14	14 1,2,3,7,8,9-HxCDF				0.858	10.002	34.71		1.00		NO			0.131	
15	15 1,2,3,4,6,7,8-HpCDF				0.851	10.002	36.49		1.00		NO			0.149	
16	16 1,2,3,4,7,8,9-HpCDF				0.980	10.002	38.49		1.00		NO			0.146	
17	17 OCDF	267.631	1.088	YES	0.806	10.002	41.09	41.10	1.00	1.00	NO	0.1666		0.166	0.1527
18	18 13C-2,3,7,8-TCDD	598042.594	0.785	NO	1.20	10.002	25.68	25.67	1.03	1.03	NO	64.57	32.3	0.140	
19	19 13C-1,2,3,7,8-PeCDD	542999.453	0.637	NO	0.967	10.002	30.41	30.62	1.22	1.22	NO	72.69	36.4	0.136	
20	20 13C-1,2,3,4,7,8-HxCDD	473467.625	1.309	NO	0.874	10.002	33.97	33.98	1.01	1.01	NO	83.44	41.7	0.240	
21	21 13C-1,2,3,6,7,8-HxCDD	549975.657	1.224	NO	1.05	10.002	34.07	34.08	1.02	1.02	NO	81.00	40.5	0.200	
22	22 13C-1,2,3,7,8,9-HxCDD	554571.234	1.280	NO	0.974	10.002	34.37	34.36	1.03	1.03	NO	87.66	43.8	0.215	
23	23 13C-1,2,3,4,6,7,8-HpCDD	434049.187	1.049	NO	0.747	10.002	37.92	37.90	1.13	1.13	NO	89.47	44.7	0.278	
24	24 13C-OCDD	709061.344	0.879	NO	0.707	10.002	40.80	40.90	1.22	1.22	NO	154.6	38.7	0.194	
25	25 13C-2,3,7,8-TCDF	753763.969	0.775	NO	1.07	10.002	24.86	24.79	0.99	0.99	NO	65.04	32.5	0.226	
26	26 13C-1,2,3,7,8-PeCDF	837937.594	1.589	NO	1.00	10.002	29.19	29.34	1.17	1.17	NO	76.89	38.4	0.197	
27	27 13C-2,3,4,7,8-PeCDF	795769.782	1.569	NO	0.962	10.002	30.14	30.32	1.20	1.21	NO	76.06	38.0	0.205	
28	28 13C-1,2,3,4,7,8-HxCDF	588000.485	0.506	NO	1.05	10.002	33.10	33.10	0.99	0.99	NO	86.32	43.2	0.357	
29	29 13C-1,2,3,6,7,8-HxCDF	648790.390	0.524	NO	1.19	10.002	33.20	33.23	0.99	0.99	NO	83.98	42.0	0.315	
30	30 13C-2,3,4,6,7,8-HxCDF	610520.828	0.509	NO	1.07	10.002	33.80	33.81	1.01	1.01	NO	88.19	44.1	0.351	
31	31 13C-1,2,3,7,8,9-HxCDF	519132.031	0.528	NO	0.922	10.002	34.70	34.71	1.04	1.04	NO	86.89	43.4	0.406	

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-9.qld

Last Altered: Wednesday, February 12, 2020 10:21:28 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:46:43 Pacific Standard Time

Name: 200202R2_9, Date: 03-Feb-2020, Time: 04:33:07, ID: 1903827-04 PDI-057SC-B-06-08-191023 17.29, Description: PDI-057SC-B-06-08-191023

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	440603.313	0.437	NO	0.767	10.002	36.44	36.46	1.09	1.09	NO	88.46	44.2	0.340	
33	33 13C-1,2,3,4,7,8,9-HpCDF	316353.086	0.430	NO	0.552	10.002	38.45	38.49	1.15	1.15	NO	88.22	44.1	0.472	
34	34 13C-OCDF	787894.844	0.848	NO	0.789	10.002	41.03	41.09	1.23	1.23	NO	153.7	38.4	0.217	
35	35 37Cl-2,3,7,8-TCDD	482373.250			1.18	10.002	25.71	25.69	1.03	1.03	NO	53.07	66.4	0.0441	
36	36 13C-1,2,3,4-TCDD	1545158.6...	0.812	NO	1.00	10.002	25.08	25.03	1.00	1.00	NO	200.0	100	0.167	
37	37 13C-1,2,3,4-TCDF	2175561.0...	0.787	NO	1.00	10.002	23.42	23.37	1.00	1.00	NO	200.0	100	0.240	
38	38 13C-1,2,3,4,6,9-HxCDF	1298287.1...	0.512	NO	1.00	10.002	33.52	33.50	1.00	1.00	NO	200.0	100	0.374	
39	39 Total Tetra-Dioxins				0.988	10.002	24.62		0.00		NO			0.0820	
40	40 Total Penta-Dioxins				0.972	10.002	29.96		0.00		NO			0.0617	
41	41 Total Hexa-Dioxins				0.921	10.002	33.63		0.00		NO	0.0000		0.0633	0.08639
42	42 Total Hepta-Dioxins				0.923	10.002	37.64		0.00		NO	0.9578		0.179	0.9578
43	43 Total Tetra-Furans				0.802	10.002	23.61		0.00		NO			0.0591	
44	44 1st Func. Penta-Furans				0.907	10.002	27.09		0.00		NO			0.0313	
45	45 Total Penta-Furans				0.907	10.002	29.27		0.00		NO			0.0489	
46	46 Total Hexa-Furans				0.898	10.002	33.56		0.00		NO			0.0507	
47	47 Total Hepta-Furans				0.851	10.002	37.83		0.00		NO			0.0743	

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-9.qld

Last Altered: Wednesday, February 12, 2020 10:21:28 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:46:57 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R2_9, Date: 03-Feb-2020, Time: 04:33:07, ID: 1903827-04 PDI-057SC-B-06-08-191023 17.29, Description: PDI-057SC-B-06-08-191023

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	0.00e0	0.00e0	2.319	YES	33.63	32.51	0.0000	0.06511
2	41 Total Hexa-Dioxins	0.00e0	0.00e0	3.304	YES	33.63	33.51	0.0000	0.02128

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	9.33e2	4.34e5	1.017	NO	37.91	37.93	0.4655	0.4655
2	42 Total Hepta-Dioxins	9.86e2	4.34e5	1.186	NO	37.64	36.87	0.4923	0.4923

Tetra-Furans

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

Penta-Furans function 1

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

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-9.qld

Last Altered: Wednesday, February 12, 2020 10:21:28 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:46:57 Pacific Standard Time

Name: 200202R2_9, Date: 03-Feb-2020, Time: 04:33:07, ID: 1903827-04 PDI-057SC-B-06-08-191023 17.29, Description: PDI-057SC-B-06-08-191023

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

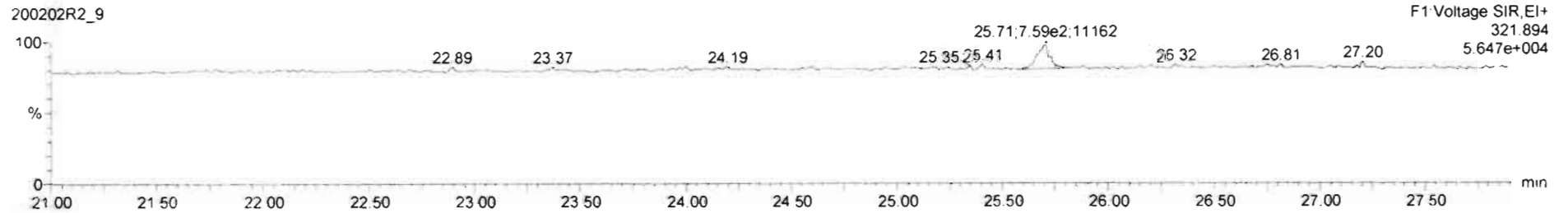
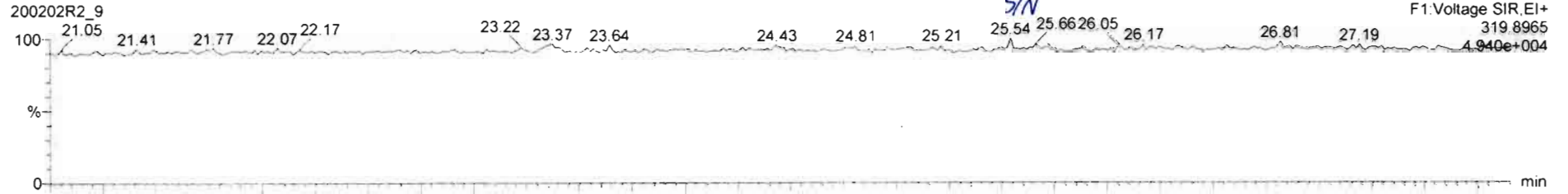
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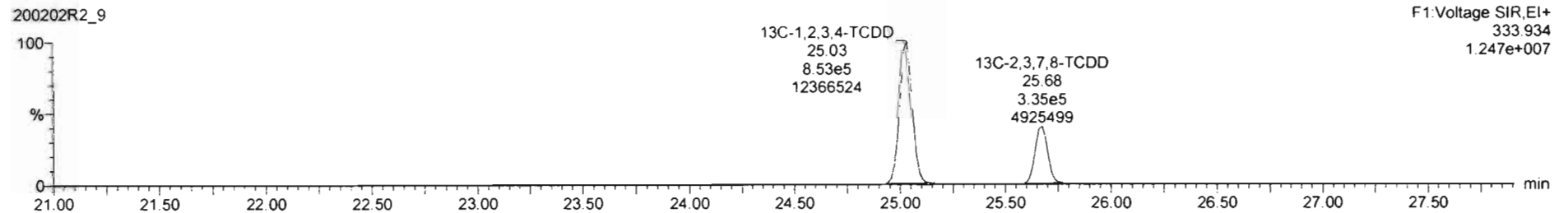
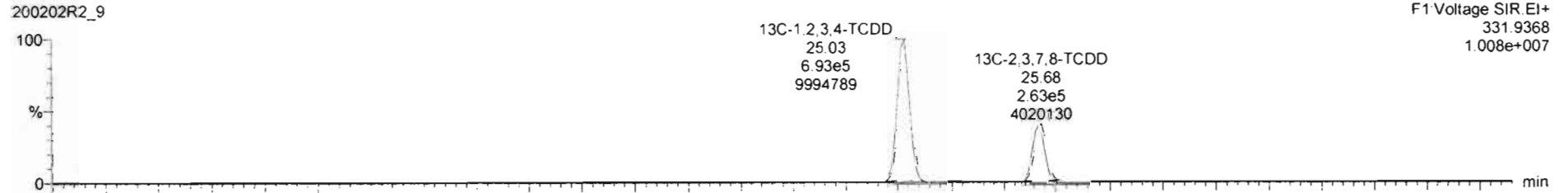
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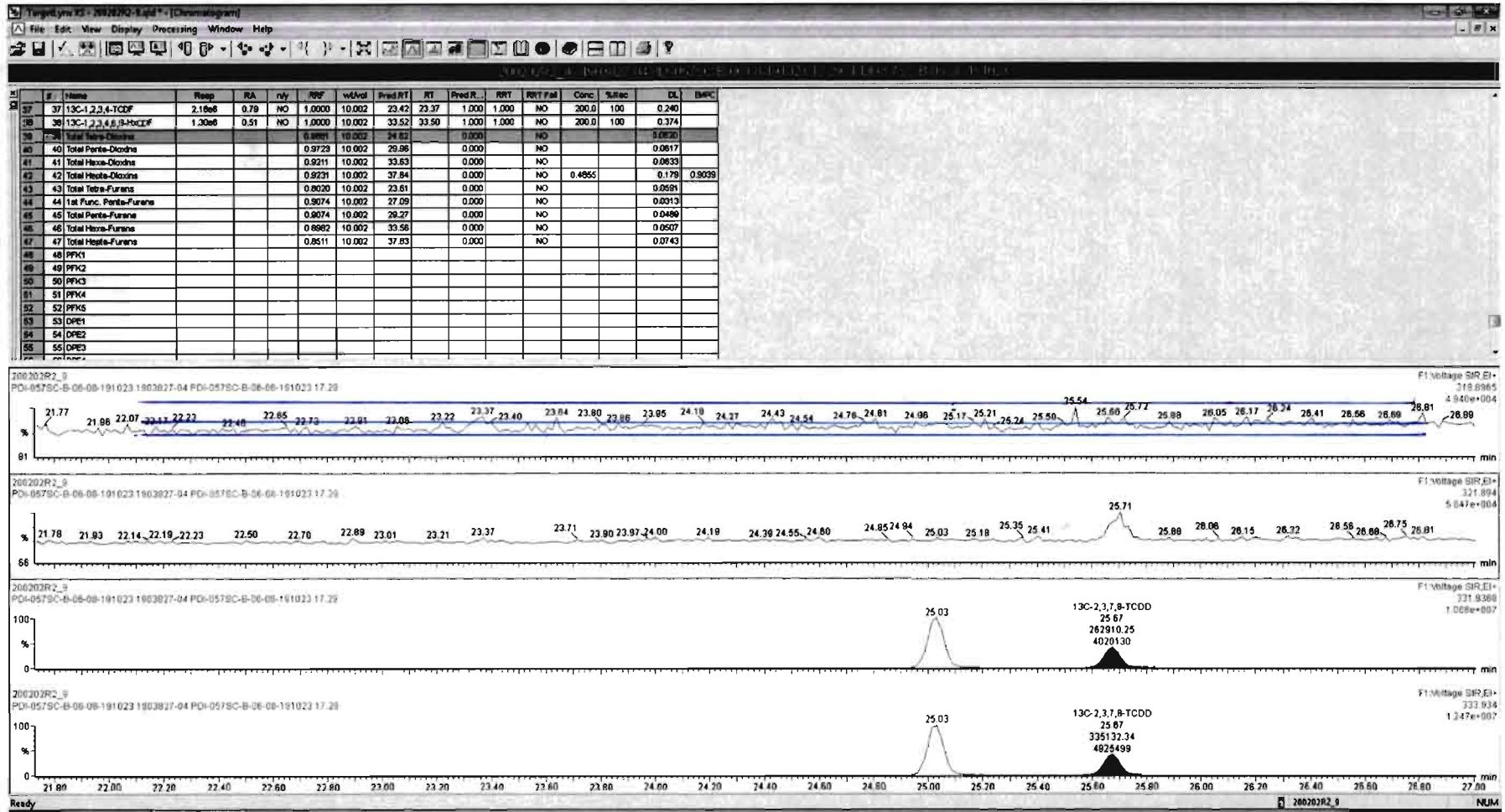
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2,3,7,8-TCDD



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





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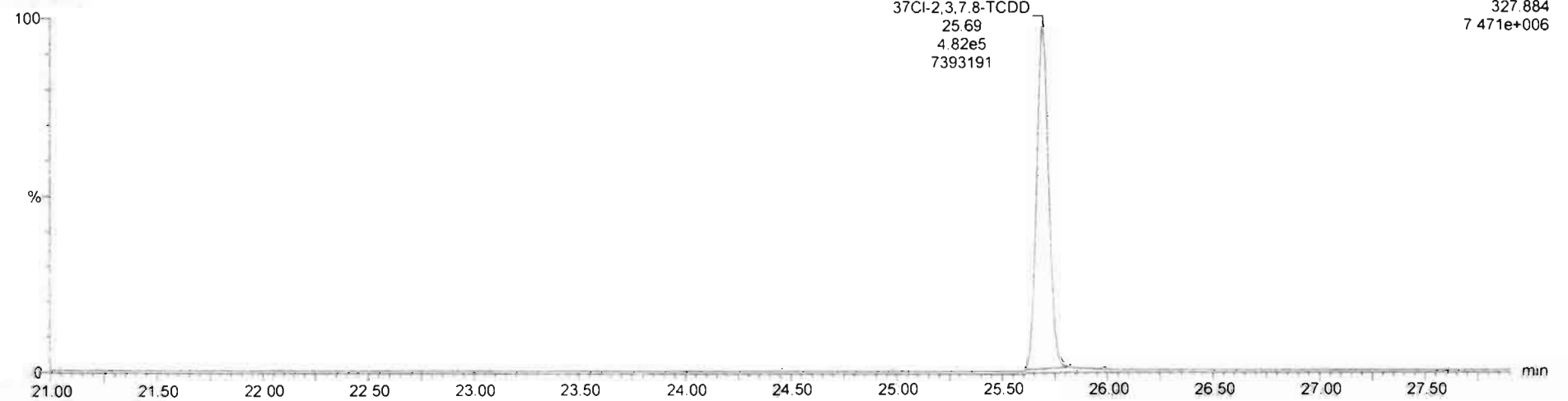
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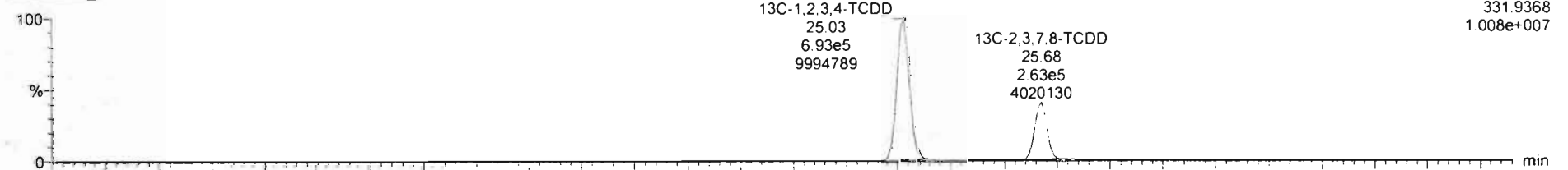
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200202R2_9

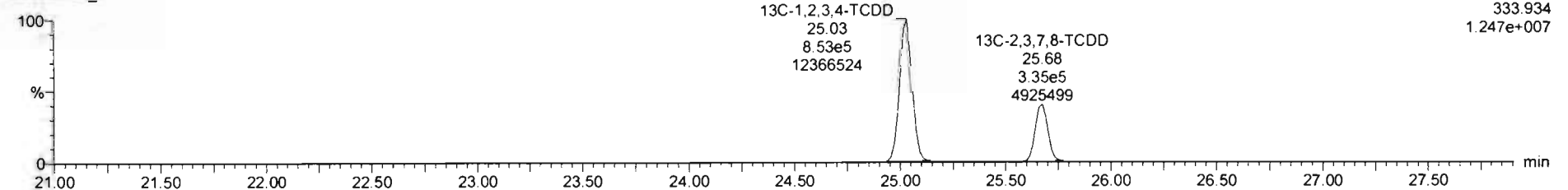


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200202R2_9



200202R2_9



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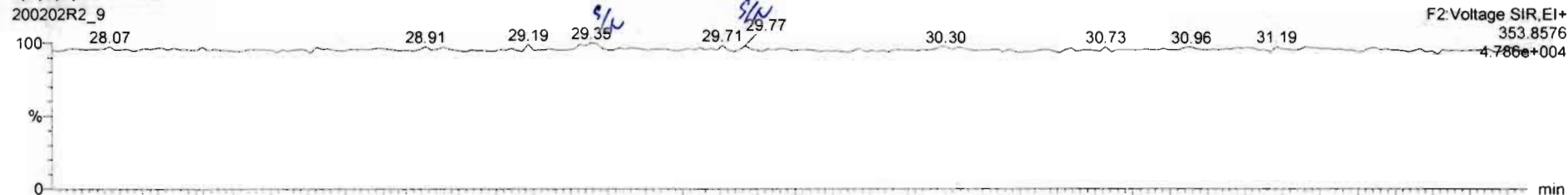
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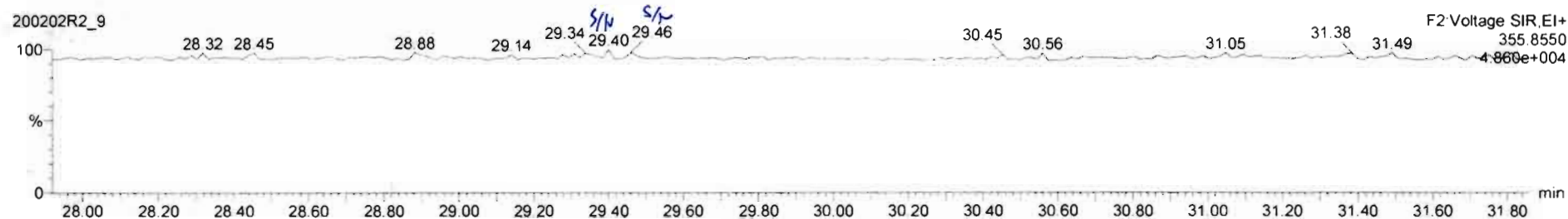
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1,2,3,7,8-PeCDD

200202R2_9

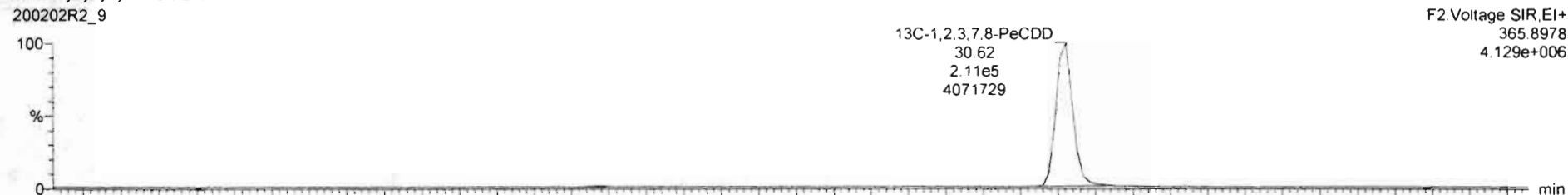


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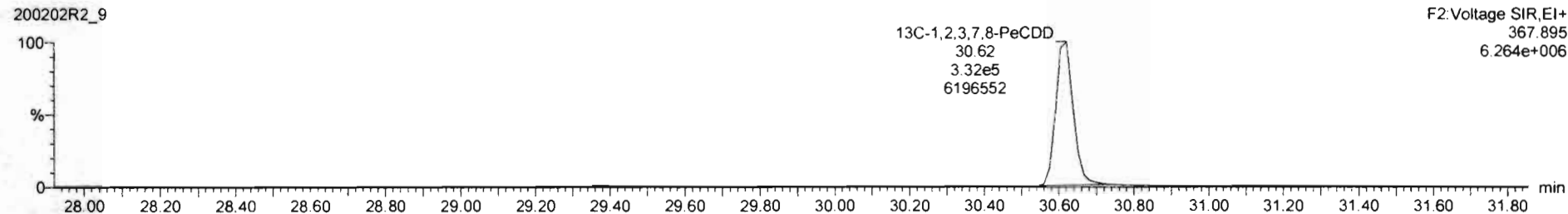


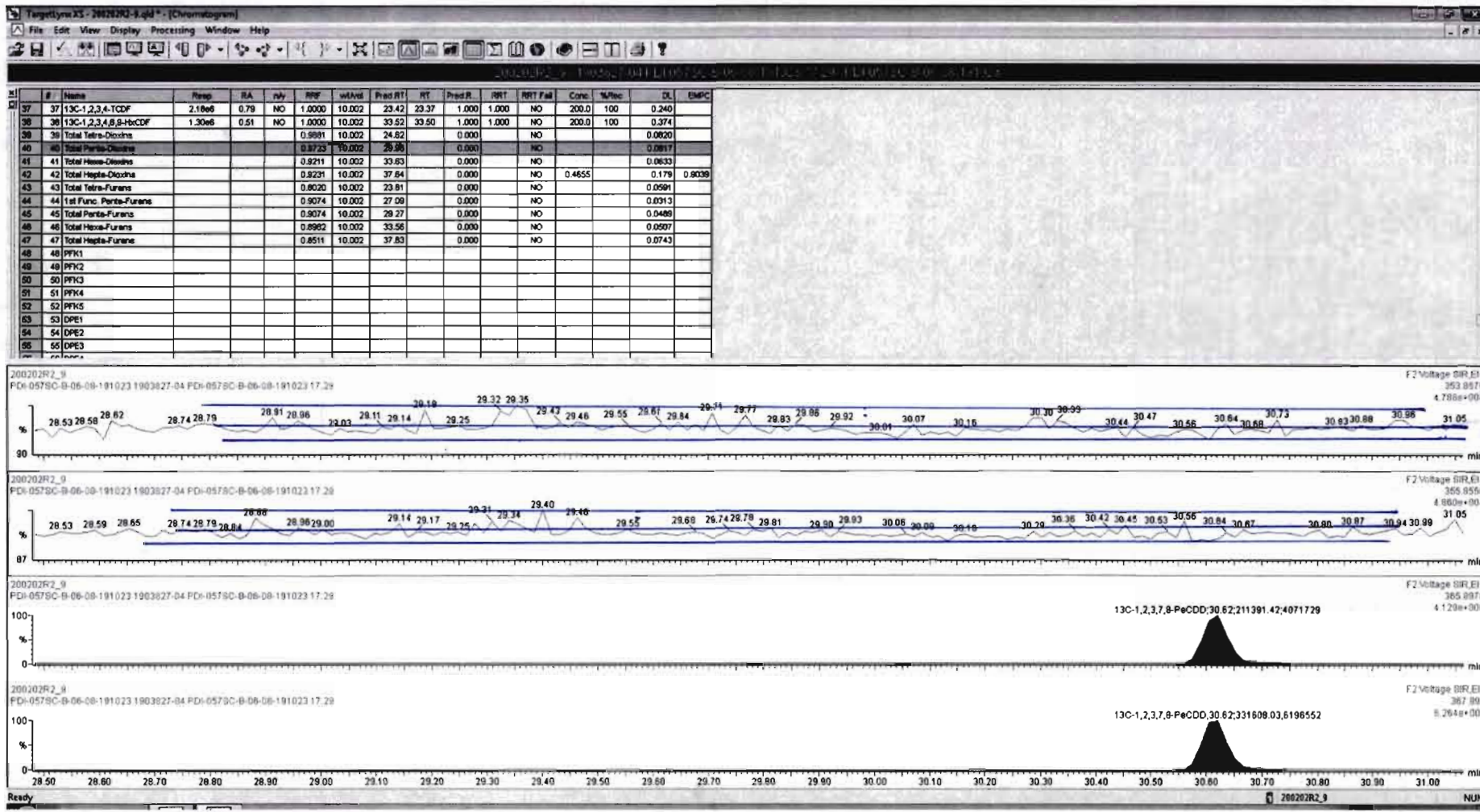
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200202R2_9



200202R2_9



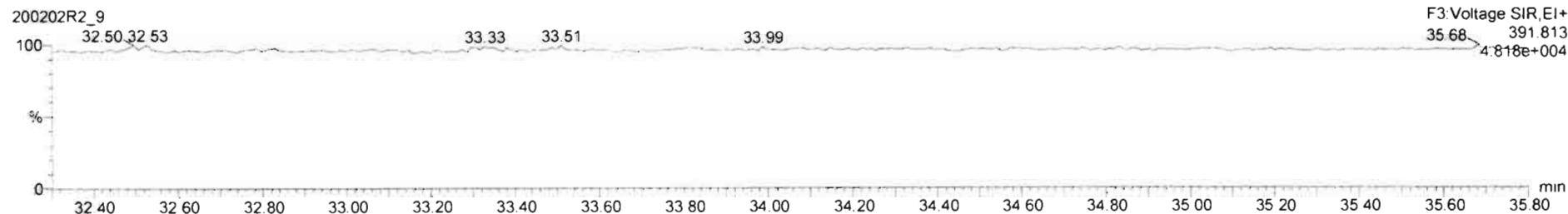
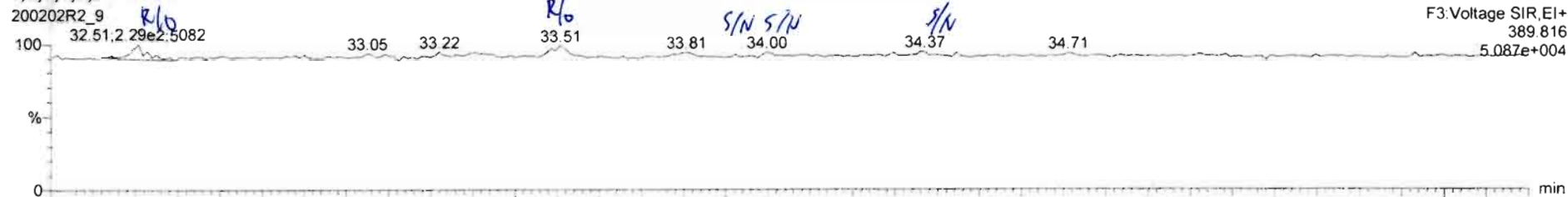


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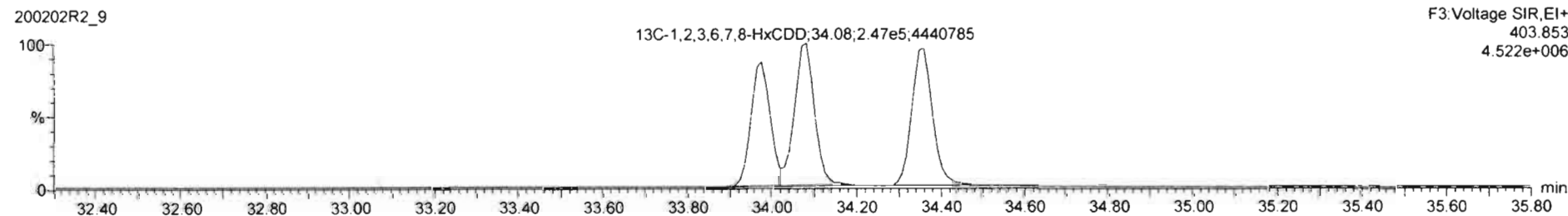
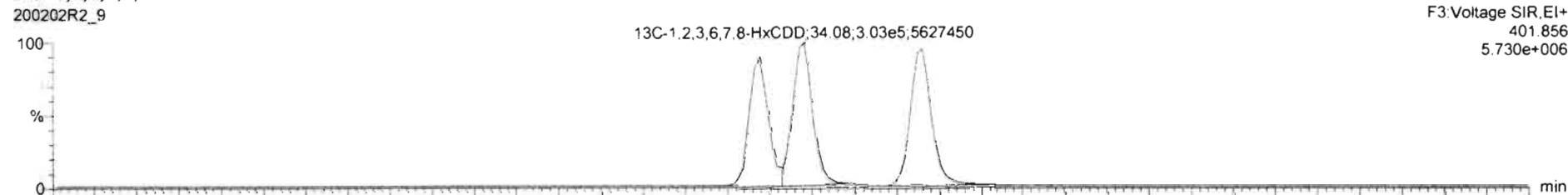
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1,2,3,4,7,8-HxCDD



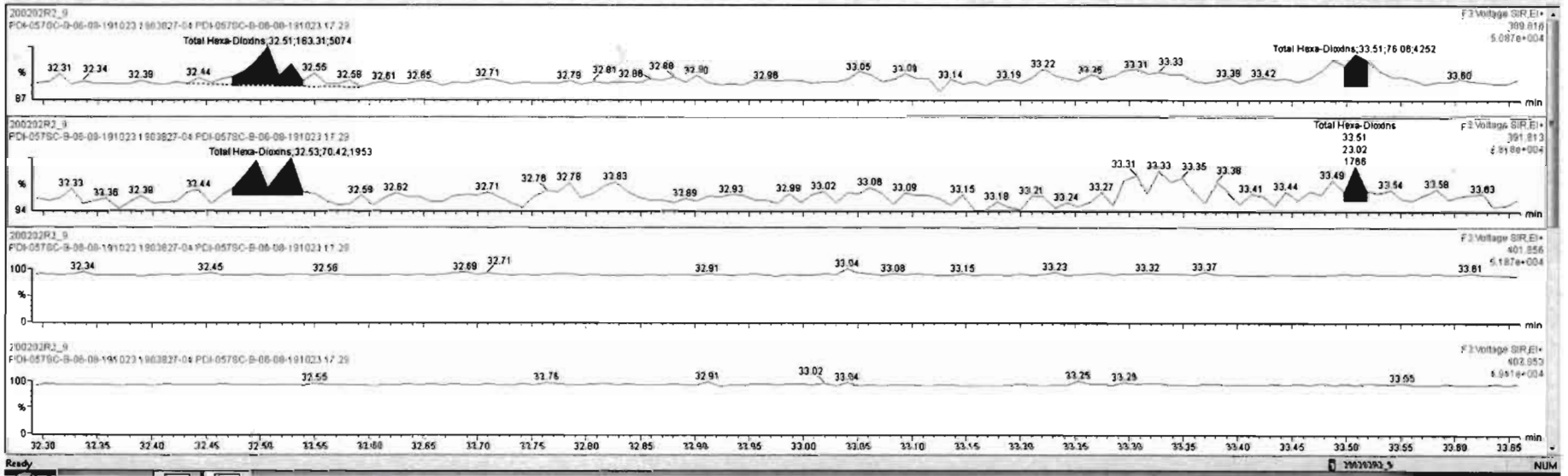
13C-1,2,3,4,7,8-HxCDD

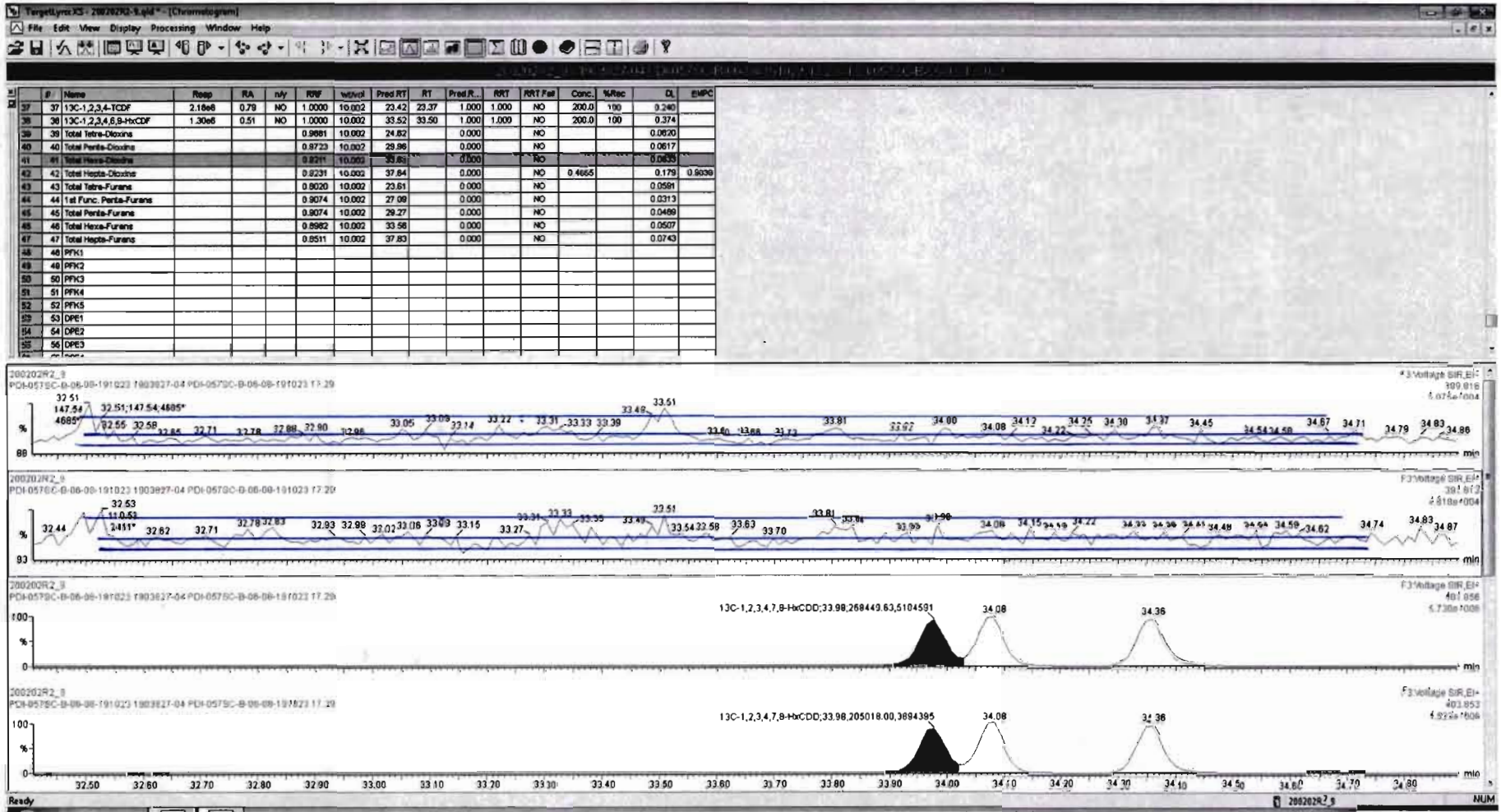


Targisys XI - 2002920 - 4.rpt - [Chromatogram]
 File Edit View Display Processing Window Help

#	Name	Resp	RA	n/y	RPF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fat	Conc	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HpCDF	3.16e5	0.43	NO	0.5523	10.002	38.45	38.48	1.148	1.149	NO	88.22	44.1	0.472	
34	13C-OCDF	7.89e5	0.85	NO	0.7894	10.002	41.03	41.06	1.225	1.227	NO	153.7	36.4	0.217	
35	3TC-2,3,7,8-TCDD	4.82e5			1.1763	10.002	25.71	25.88	1.027	1.028	NO	53.07	86.4	0.0441	
36	13C-1,2,3,4-TCDD	1.55e6	0.81	NO	1.0000	10.002	25.08	25.03	1.000	1.000	NO	200.0	100	0.187	
37	13C-1,2,3,4-TCDF	2.19e6	0.79	NO	1.0000	10.002	23.42	23.37	1.000	1.000	NO	200.0	100	0.240	
38	13C-1,2,3,4,6,9-HxCDF	1.30e6	0.51	NO	1.0000	10.002	33.52	33.50	1.000	1.000	NO	200.0	100	0.374	
39	Total Tetra-Dioxins				0.9961	10.002	24.62		0.000		NO			0.0620	
40	Total Penta-Dioxins				0.9723	10.002	29.96		0.000		NO			0.0617	
41	Total Hexa-Dioxins				0.9211	10.002	33.63		0.000		NO	0.0000		0.0633	0.08639
42	Total Hepta-Dioxins				0.9231	10.002	37.64		0.000		NO	0.9578		0.179	0.2578
43	Total Tetra-Furans				0.6020	10.002	23.81		0.000		NO			0.0591	
44	1st Func. Penta-Furans				0.9074	10.002	27.09		0.000		NO			0.0313	
45	Total Penta-Furans				0.9074	10.002	28.27		0.000		NO			0.0489	

#	Name	Pred RT	RT	ret Resp	ret Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	32.91	1.630e2	7.042e1	1.240	2.32	YES	0.065105	0.00000
2	41 Total Hexa-Dioxins	33.63	33.51	7.606e1	2.302e1	1.240	3.30	YES	0.021280	0.00000





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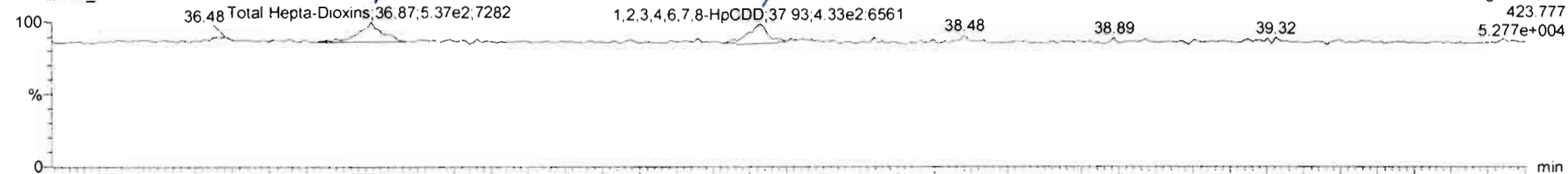
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Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

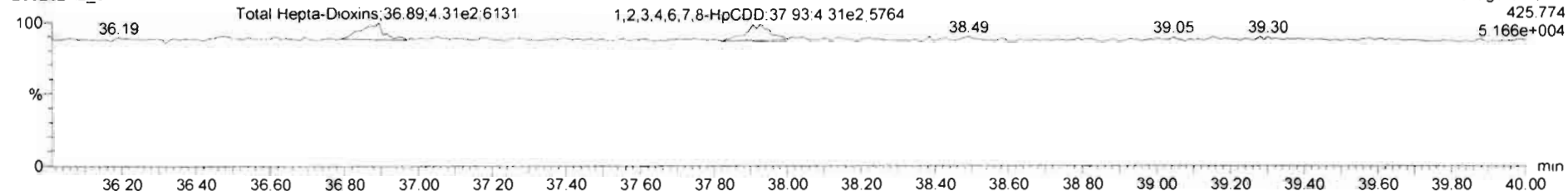
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1,2,3,4,6,7,8-HpCDD

200202R2_9

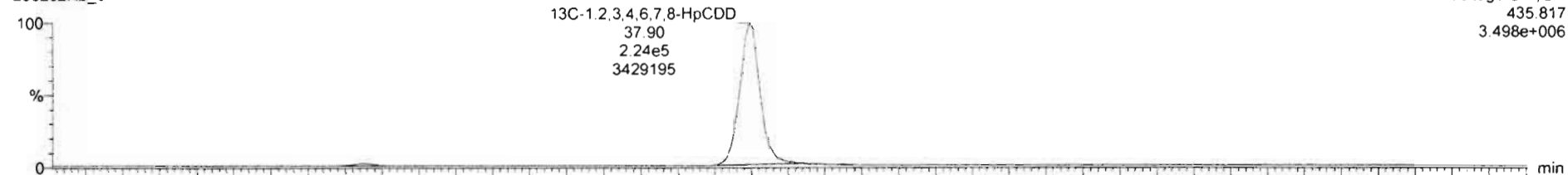


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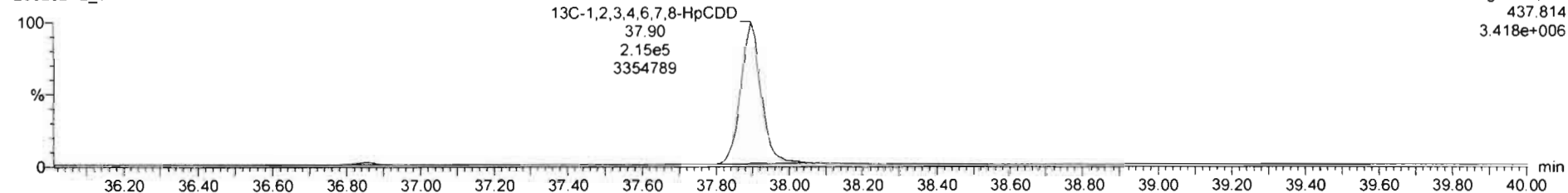


13C-1,2,3,4,6,7,8-HpCDD

200202R2_9



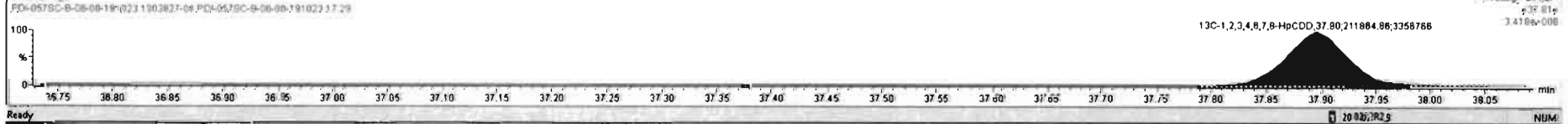
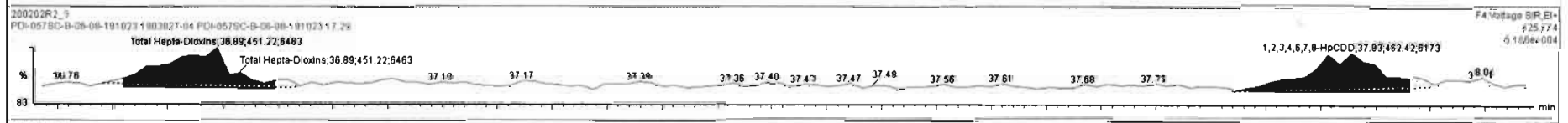
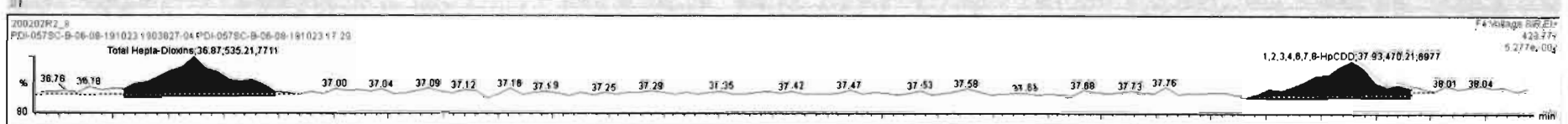
200202R2_9



TargetSyn.XS - 200202_8.smd * - [Chromatogram]
 File Edit View Display Processing Window Help

#	Name	Resp	RA	rvy	RPF	wtAval	Prod.RT	RT	Prod.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
37	13C-1,2,3,4-TCDF	2.18e6	0.79	NO	1.0000	10.002	23.42	23.37	1.000	1.000	NO	200.0	100		0.240
38	13C-1,2,3,4,6,8-HxCDF	1.30e6	0.51	NO	1.0000	10.002	33.52	33.50	1.000	1.000	NO	200.0	100		0.374
39	Total Tetra-Dioxins				0.9881	10.002	24.62		0.000		NO				0.0820
40	Total Penta-Dioxins				0.9723	10.002	29.96		0.000		NO				0.0617
41	Total Hexa-Dioxins				0.9211	10.002	33.63		0.000		NO				0.0633
42	Total Hepta-Dioxins				0.8231	10.002	37.84		0.000		NO	0.8678		0.178	0.9578
43	Total Tetra-Furans				0.8020	10.002	23.61		0.000		NO				0.0591
44	1st Func. Penta-Furans				0.9074	10.002	27.09		0.000		NO				0.0313
45	Total Penta-Furans				0.9074	10.002	29.27		0.000		NO				0.0488
46	Total Hexa-Furans				0.8982	10.002	33.58		0.000		NO				0.0507
47	Total Hepta-Furans				0.8511	10.002	37.83		0.000		NO				0.0743
48	PFK1														
49	PFK2														

#	Name	Prod.RT	RT	w1 Resp	w2 Resp	* Ratio (Prod)	RA	rvy	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDD	37.91	37.93	4.702e2	4.624e2	1.040	1.02	NO	0.46547	0.46547
2	Total Hepta-Dioxins	37.84	36.87	5.352e2	4.512e2	1.040	1.19	NO	0.48232	0.49232

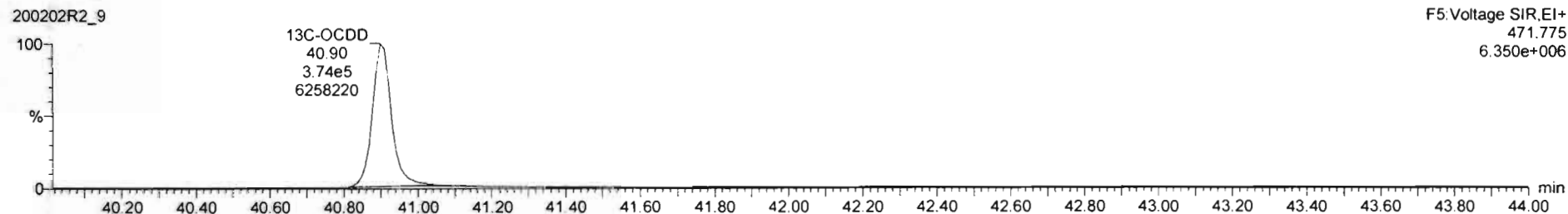
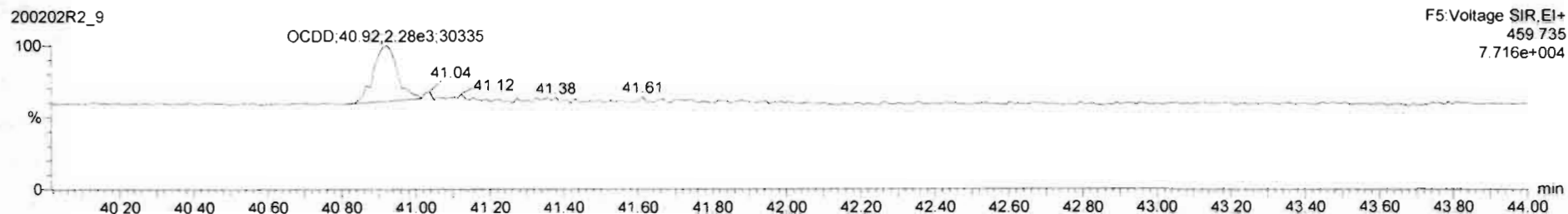
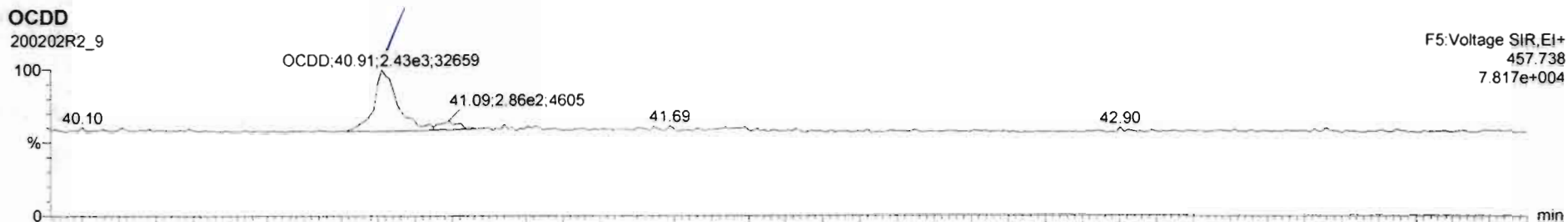


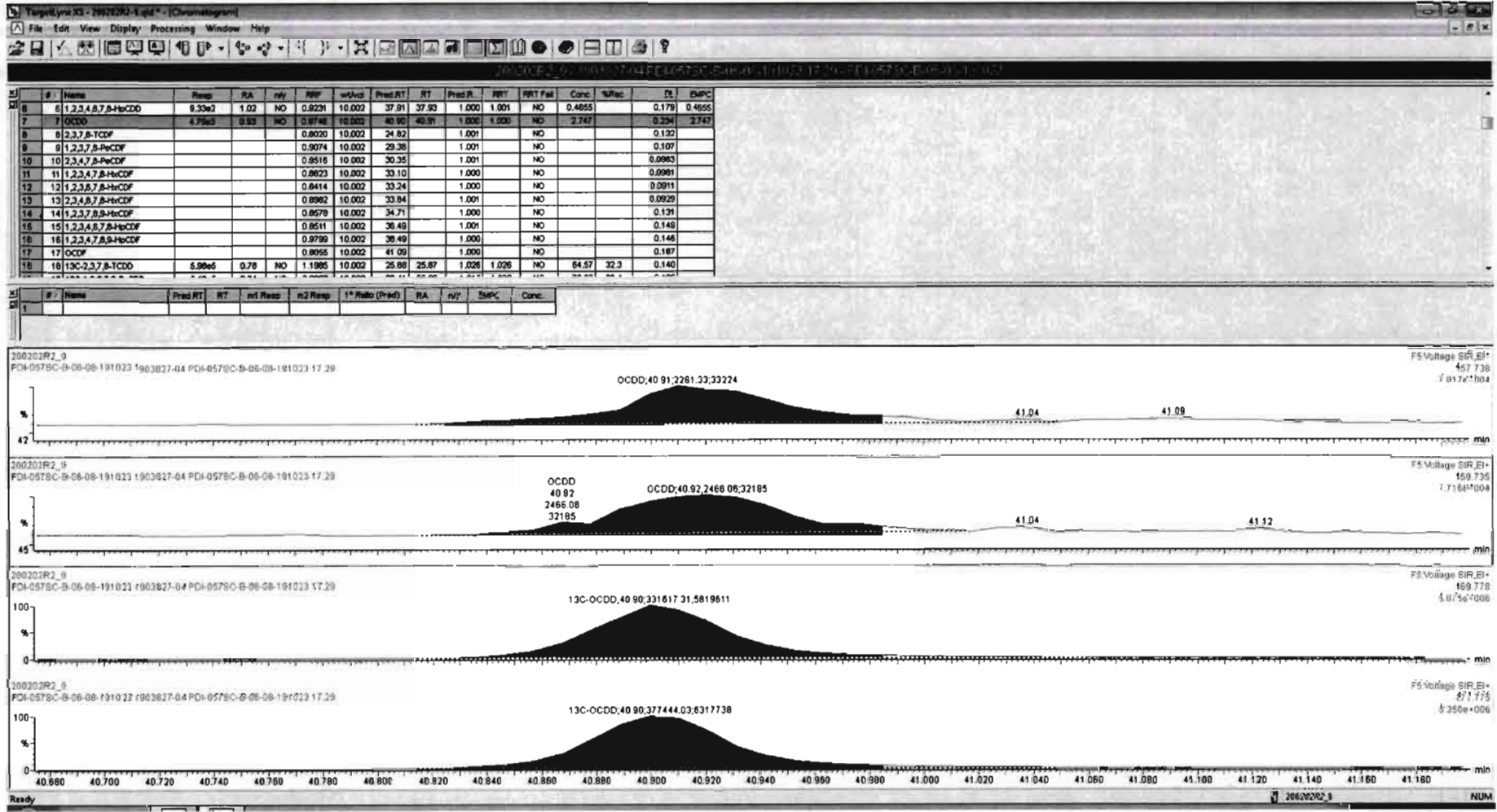
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Name: 200202R2_9, Date: 03-Feb-2020, Time: 04:33:07, ID: 1903827-04 PDI-057SC-B-06-08-191023 17.29, Description: PDI-057SC-B-06-08-191023



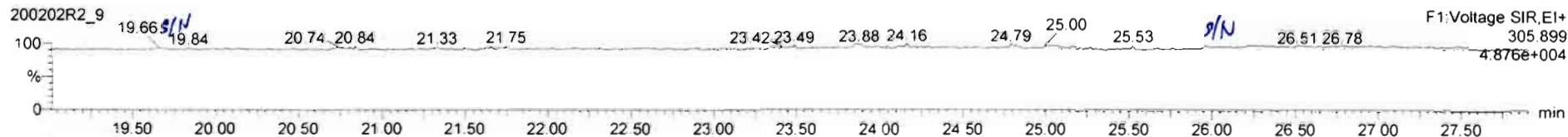
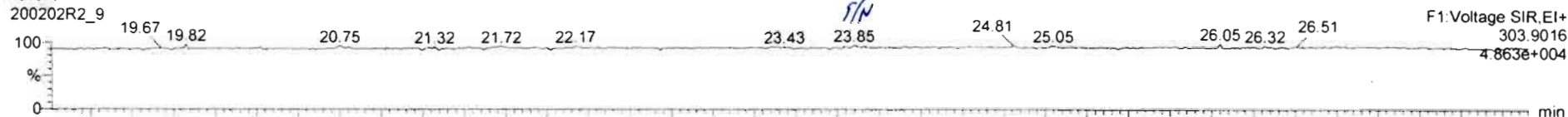


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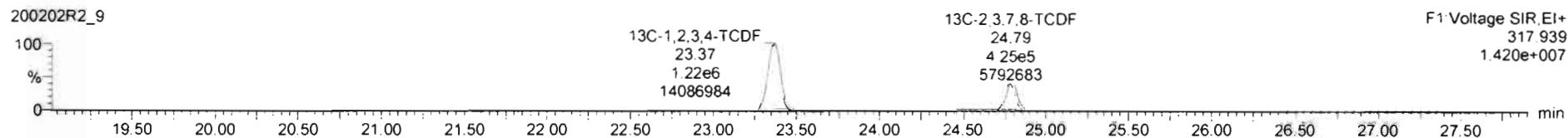
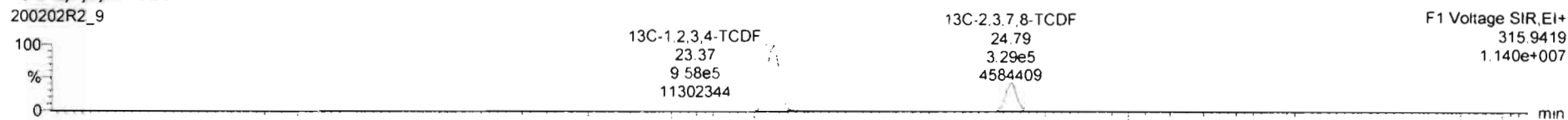
Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time
Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_9, Date: 03-Feb-2020, Time: 04:33:07, ID: 1903827-04 PDI-057SC-B-06-08-191023 17.29, Description: PDI-057SC-B-06-08-191023

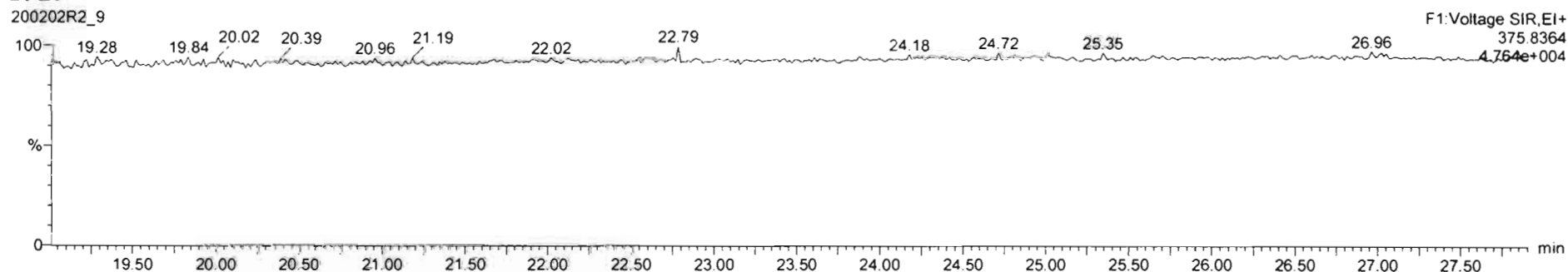
2,3,7,8-TCDF

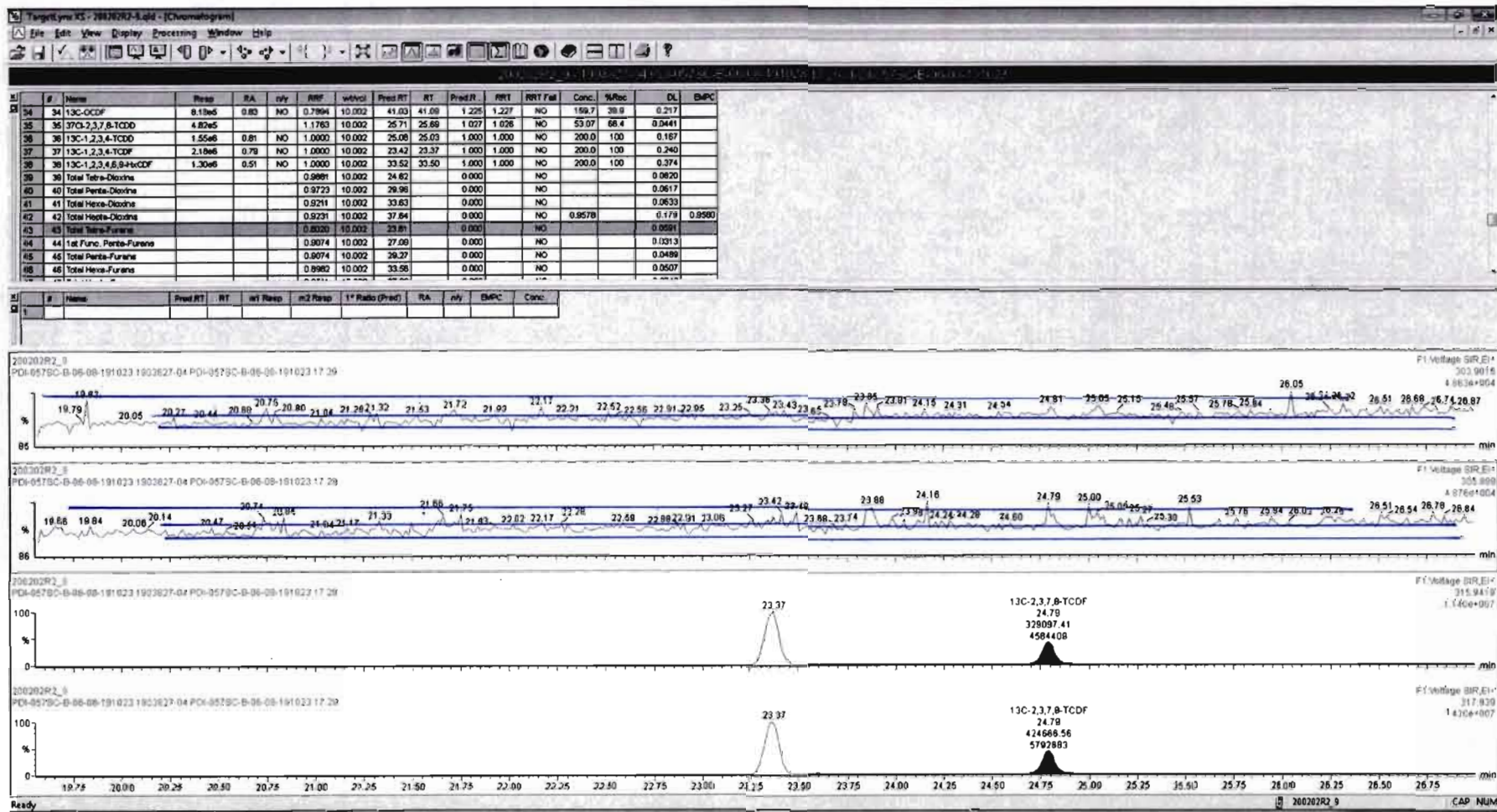


13C-2,3,7,8-TCDF



DPE1



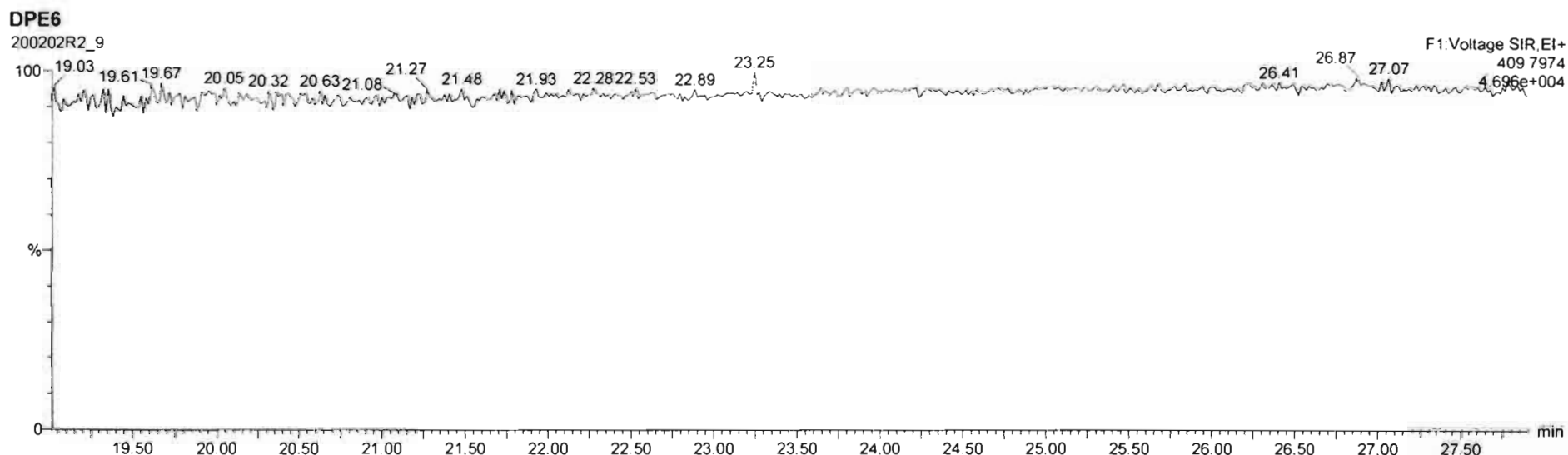
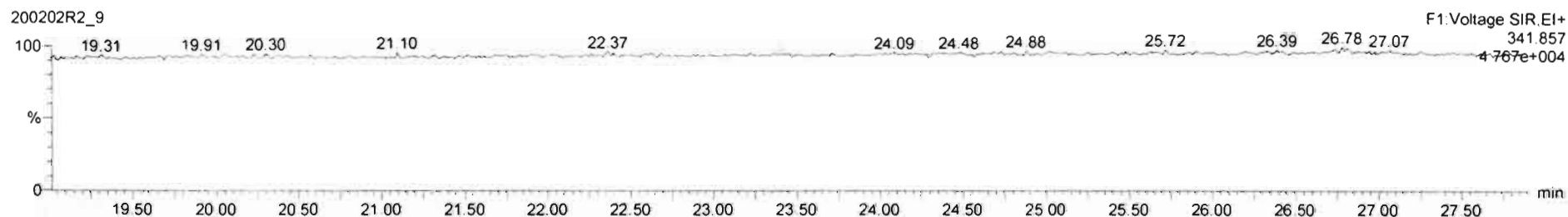
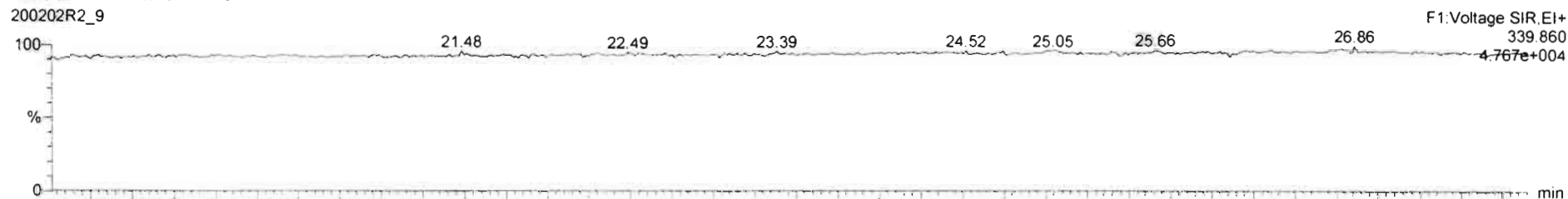


Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time
Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_9, Date: 03-Feb-2020, Time: 04:33:07, ID: 1903827-04 PDI-057SC-B-06-08-191023 17.29, Description: PDI-057SC-B-06-08-191023

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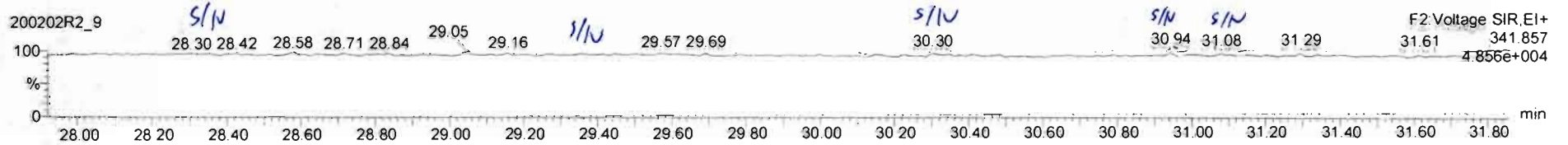
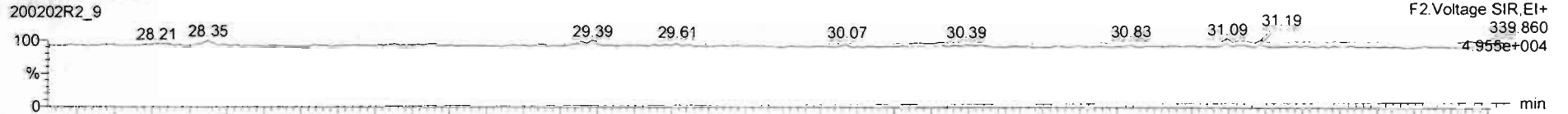


Dataset: Untitled

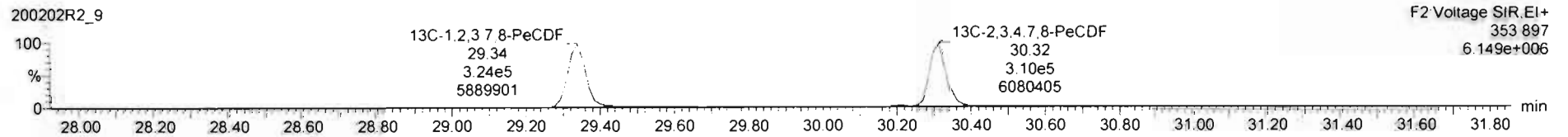
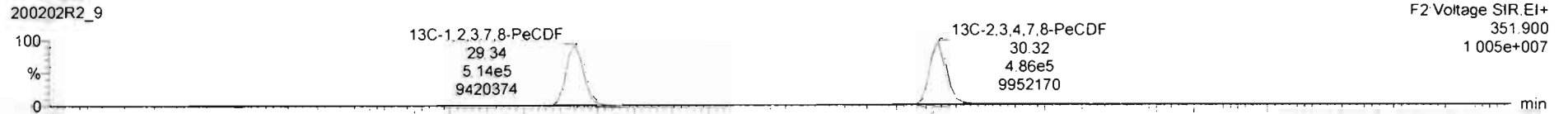
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Name: 200202R2_9, Date: 03-Feb-2020, Time: 04:33:07, ID: 1903827-04 PDI-057SC-B-06-08-191023 17.29, Description: PDI-057SC-B-06-08-191023

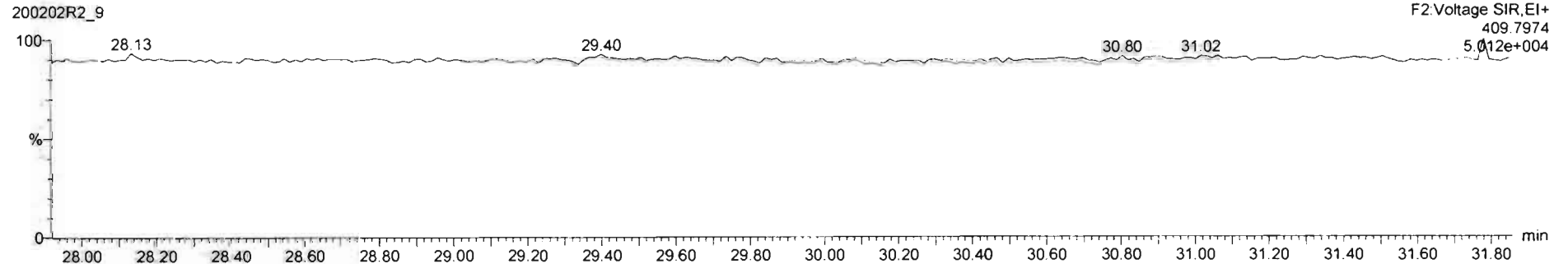
1,2,3,7,8-PeCDF

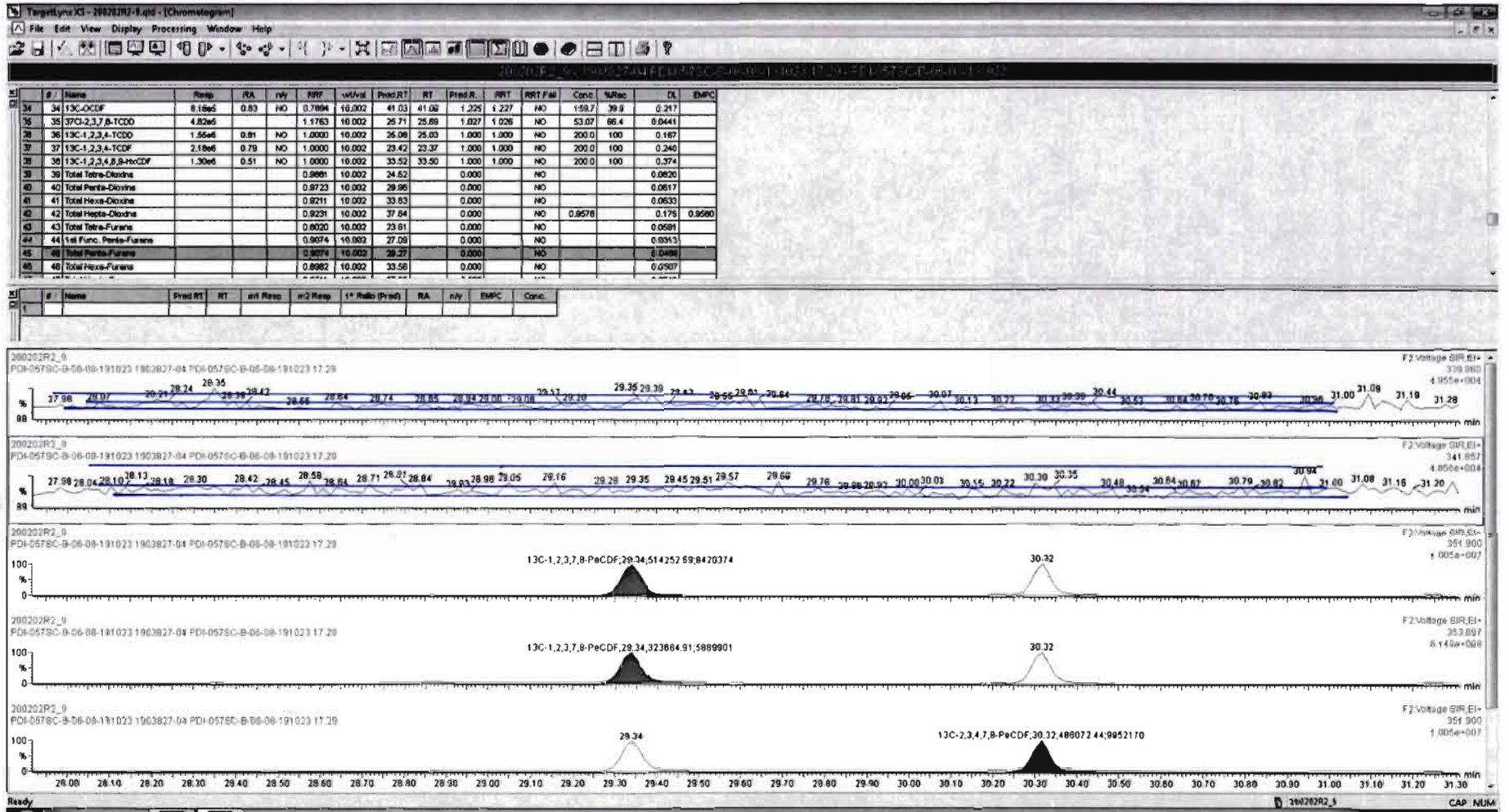


13C-1,2,3,7,8-PeCDF



DPE2





Dataset: Untitled

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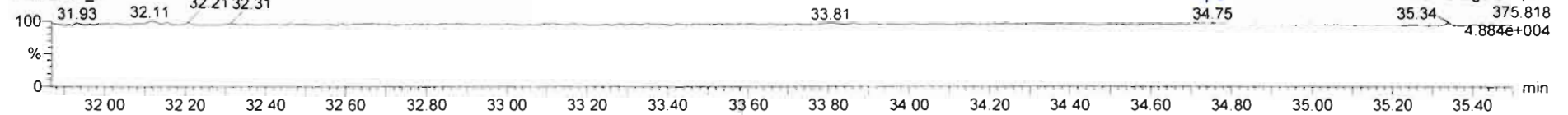
Name: 200202R2_9, Date: 03-Feb-2020, Time: 04:33:07, ID: 1903827-04 PDI-057SC-B-06-08-191023 17.29, Description: PDI-057SC-B-06-08-191023

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

200202R2_9

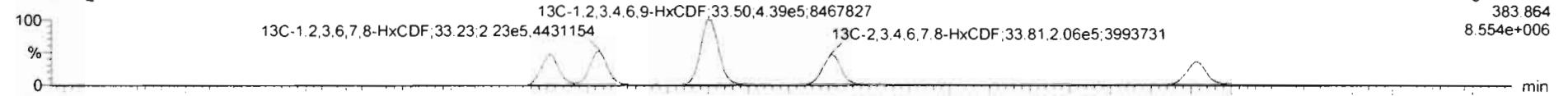


200202R2_9

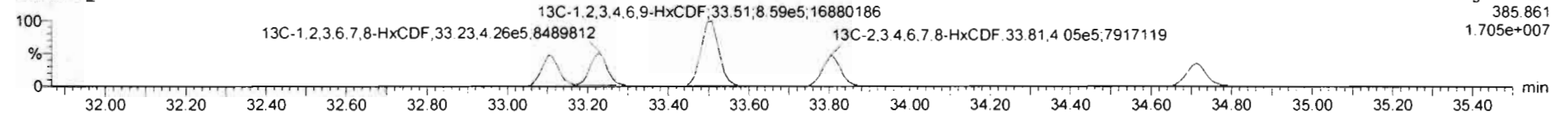


13C-1,2,3,4,7,8-HxCDF

200202R2_9

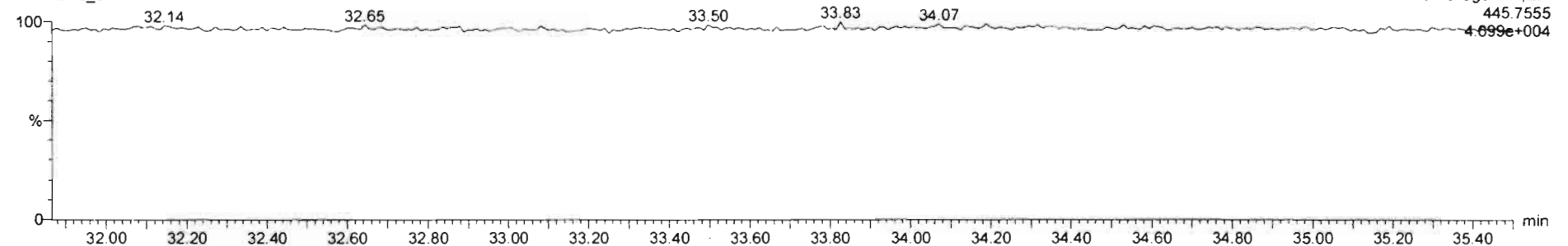


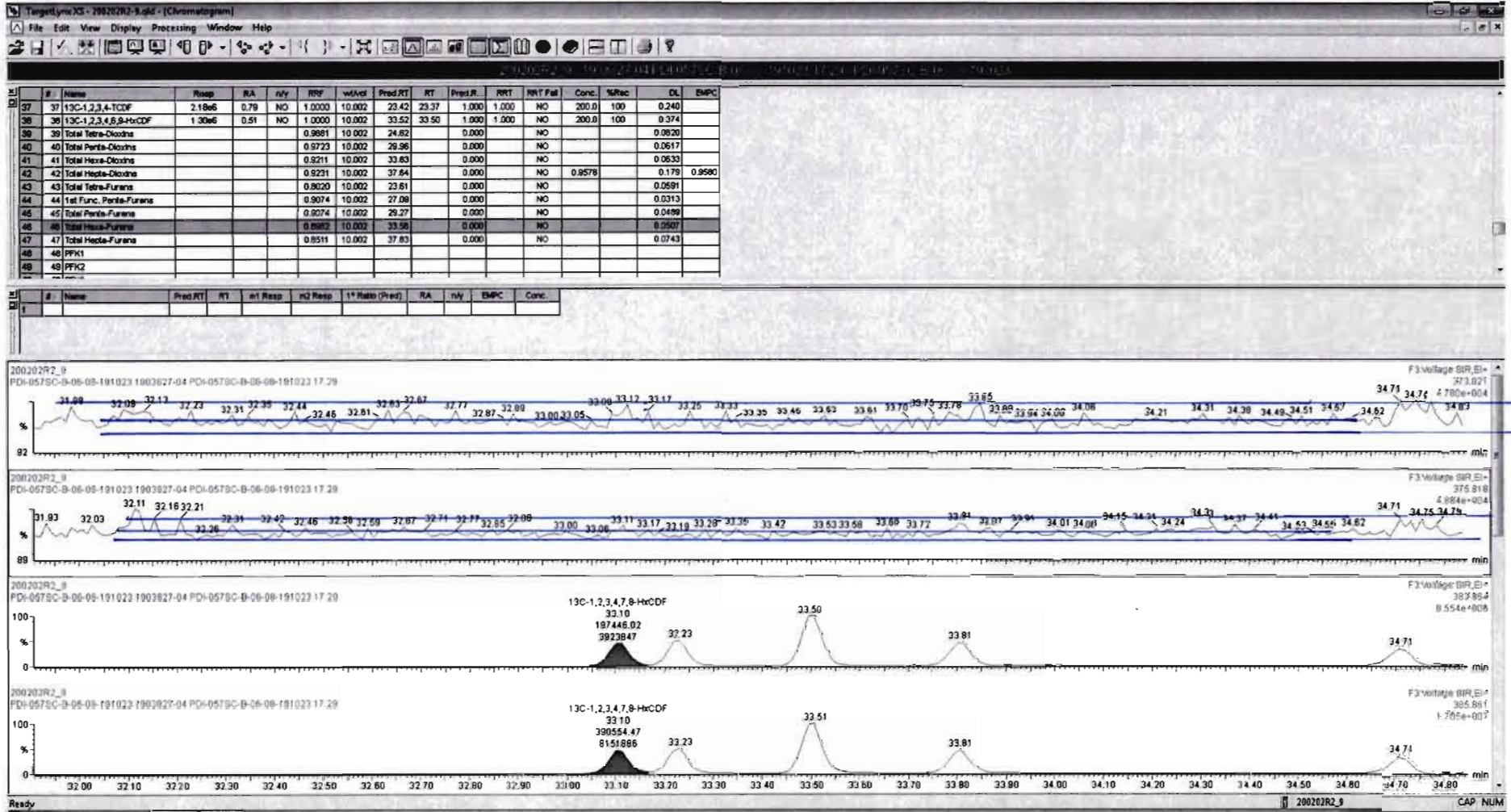
200202R2_9



DPE3

200202R2_9



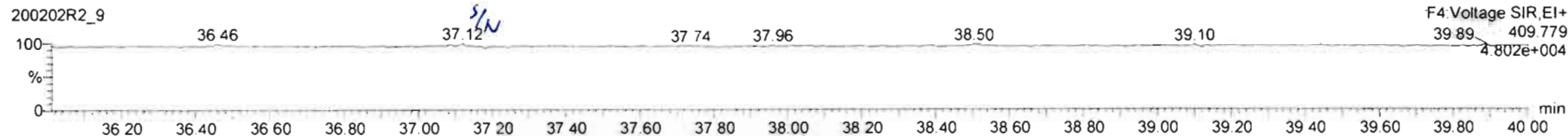
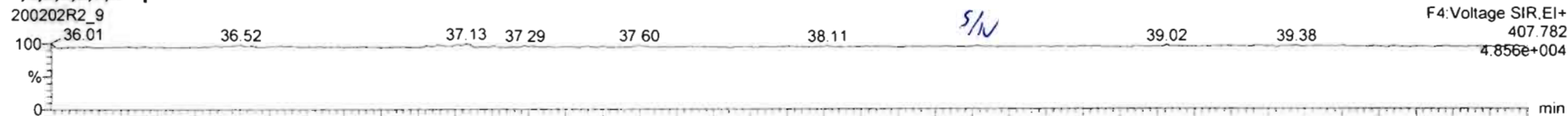


Dataset: Untitled

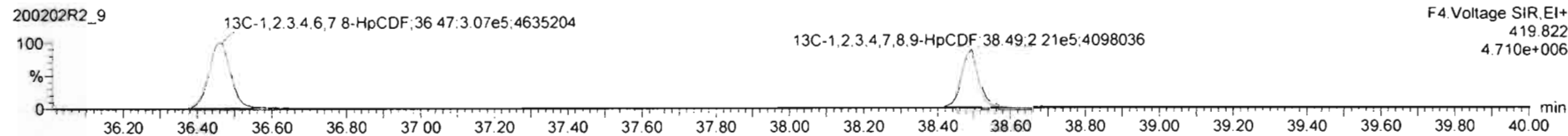
Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time
Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_9, Date: 03-Feb-2020, Time: 04:33:07, ID: 1903827-04 PDI-057SC-B-06-08-191023 17.29, Description: PDI-057SC-B-06-08-191023

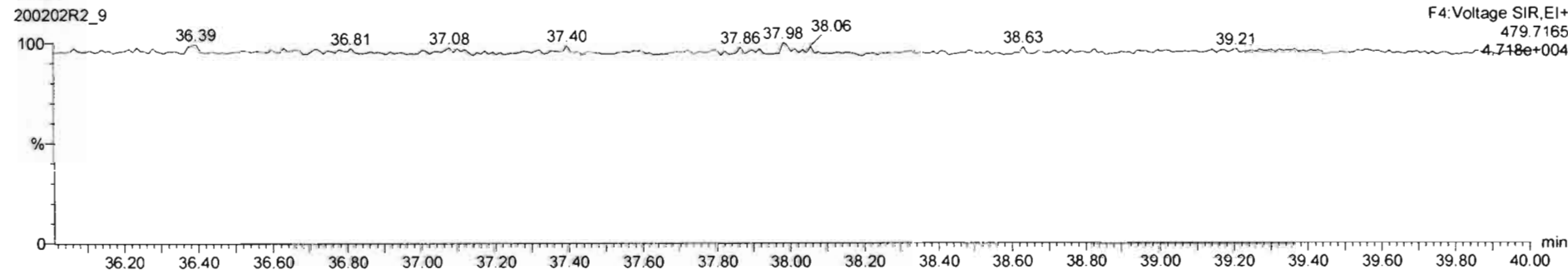
1,2,3,4,6,7,8-HpCDF

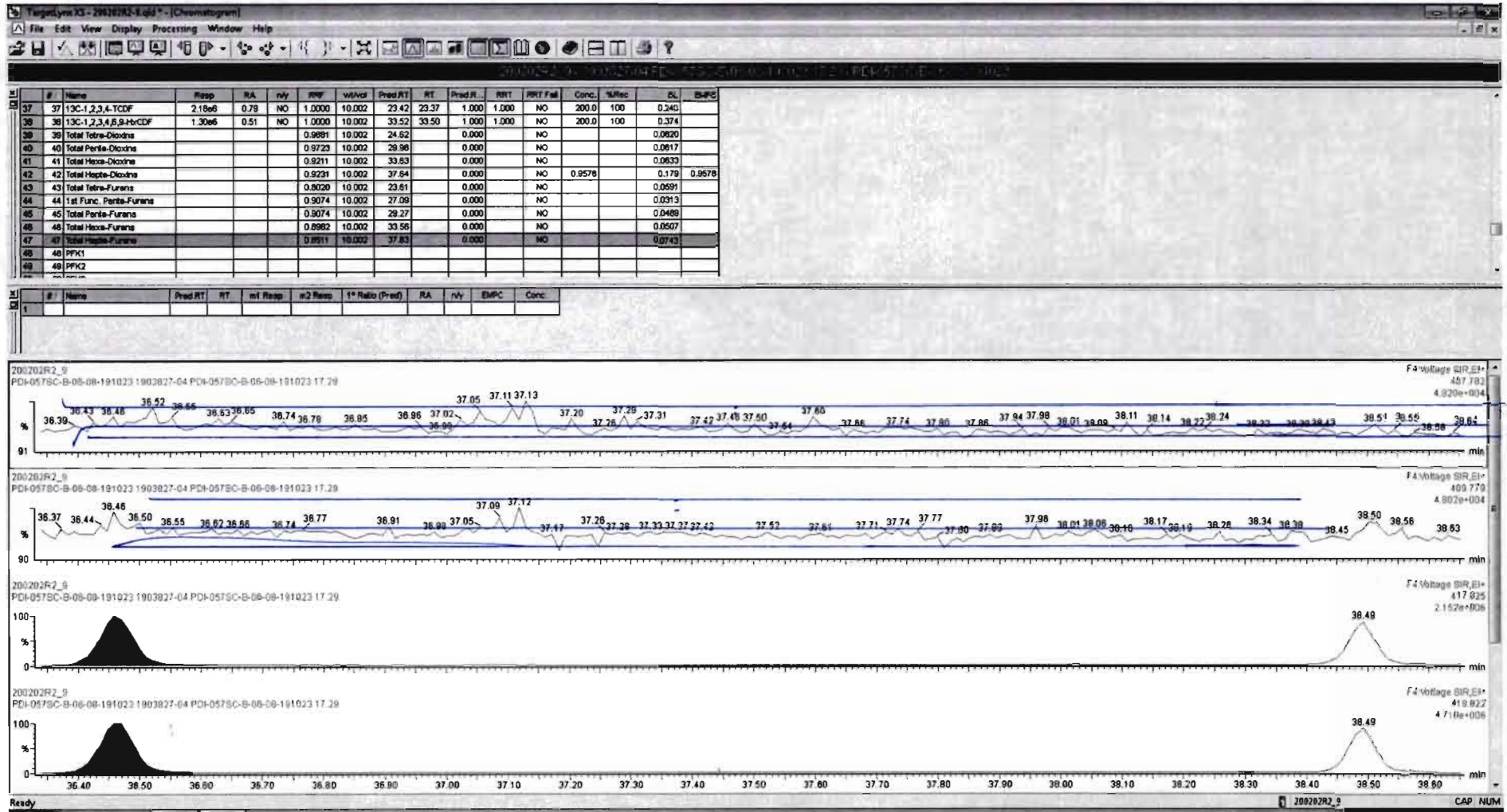


13C-1,2,3,4,6,7,8-HpCDF



DPE4



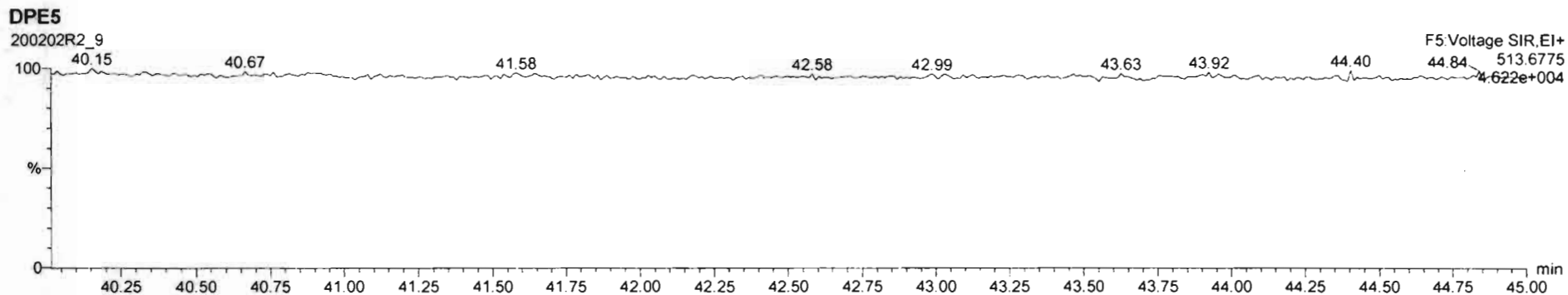
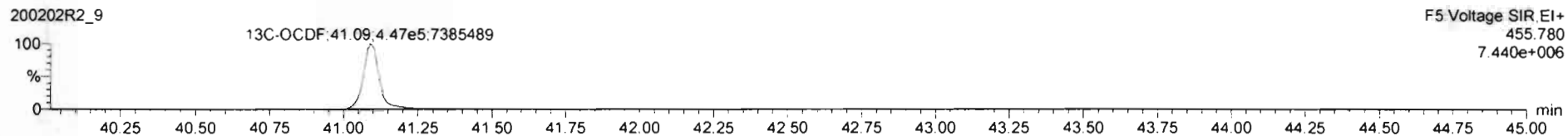
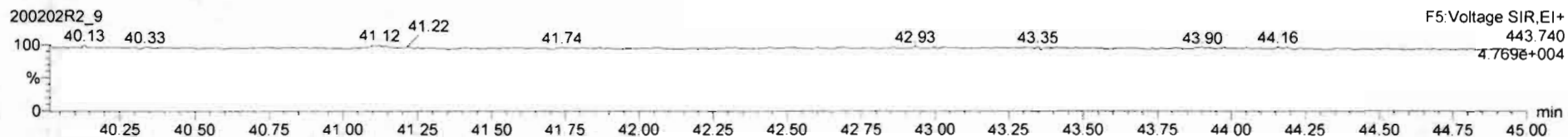
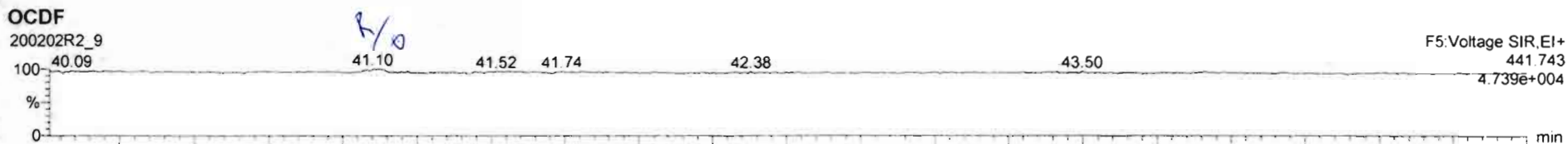


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Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time

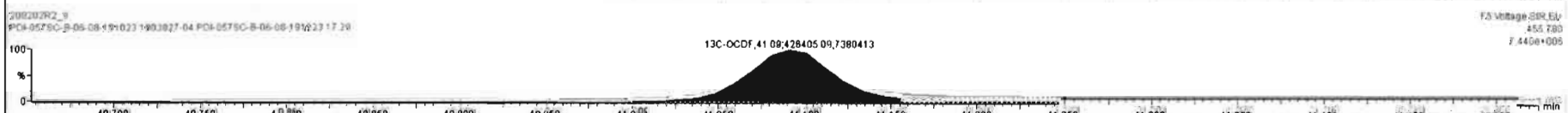
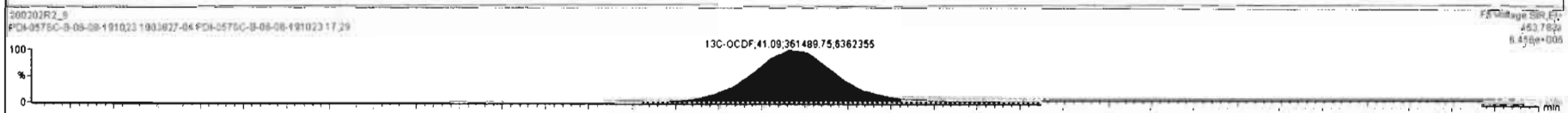
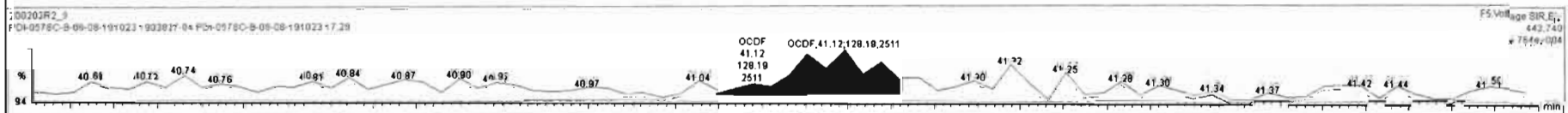
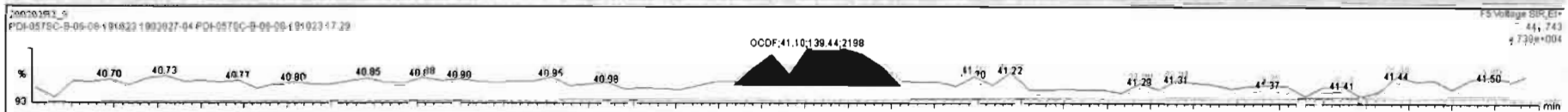
Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_9, Date: 03-Feb-2020, Time: 04:33:07, ID: 1903827-04 PDI-057SC-B-06-08-191023 17.29, Description: PDI-057SC-B-06-08-191023



#	Name	Resp	RA	n/y	RPF	Vol	Pred RT	RT	Pred R	RRT	RRT Fall	Conc.	%Rec	DL	EMPC
12	12-1,2,3,6,7,8-HxCDF				0.8414	10.002	33.24		1.000		NO			0.0911	
13	13-1,2,3,4,6,7,8-HxCDF				0.8982	10.002	33.84		1.001		NO			0.0929	
14	14-1,2,3,7,8-HxCDF				0.8578	10.002	34.71		1.000		NO			0.131	
15	15-1,2,3,4,6,7,8-HpCDF				0.8511	10.002	36.49		1.001		NO			0.149	
16	16-1,2,3,4,7,8-HpCDF				0.8799	10.002	38.49		1.000		NO			0.146	
17	OCDF	2.8862	1.08	YES	0.8056	10.002	41.00	41.10	1.000	1.000	NO	0.1988		0.188	0.1527
18	13C-2,3,7,8-TCDD	5.9865	0.78	NO	1.1985	10.002	25.88	25.87	1.028	1.028	NO	84.57	32.3	0.140	
19	13C-1,2,3,7,8-PeCDD	5.4365	0.84	NO	0.8687	10.002	30.41	30.82	1.215	1.223	NO	72.88	36.4	0.136	
20	13C-1,2,3,4,7,8-HxCDD	4.7365	1.31	NO	0.8739	10.002	33.97	33.98	1.014	1.014	NO	83.44	41.7	0.240	
21	21-1,2,3,6,7,8-HxCDD	5.5065	1.22	NO	1.0488	10.002	34.07	34.08	1.017	1.017	NO	81.00	40.5	0.200	
22	13C-1,2,3,7,8,9-HxCDD	5.5565	1.26	NO	0.9744	10.002	34.37	34.36	1.028	1.028	NO	87.68	43.8	0.215	
23	13C-1,2,3,4,6,7,8-HpCDD	4.3465	1.05	NO	0.7472	10.002	37.82	37.90	1.132	1.131	NO	89.47	44.7	0.278	
24	13C-OCDD	7.0965	0.88	NO	0.7085	10.002	40.80	40.90	1.218	1.221	NO	154.6	38.7	0.194	

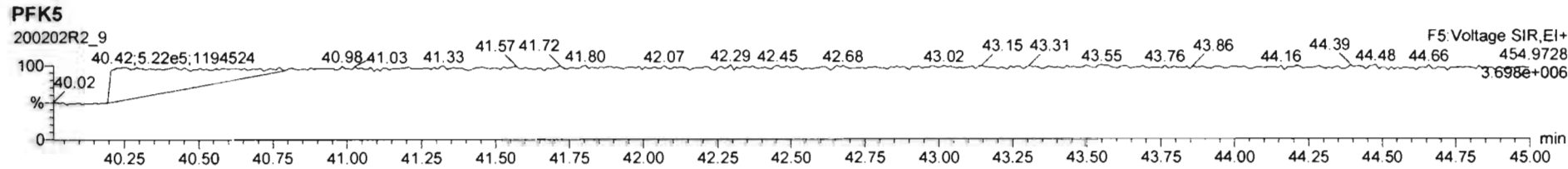
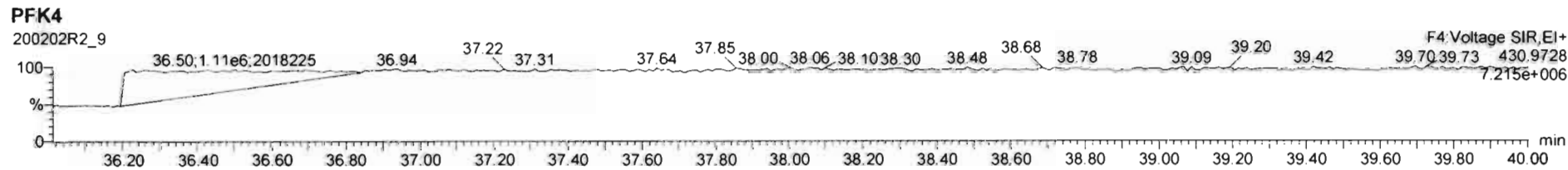
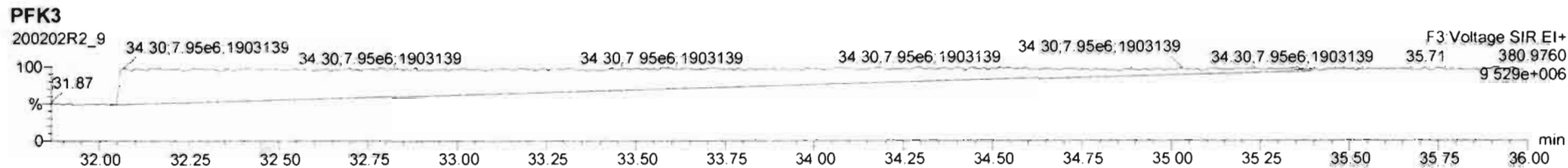
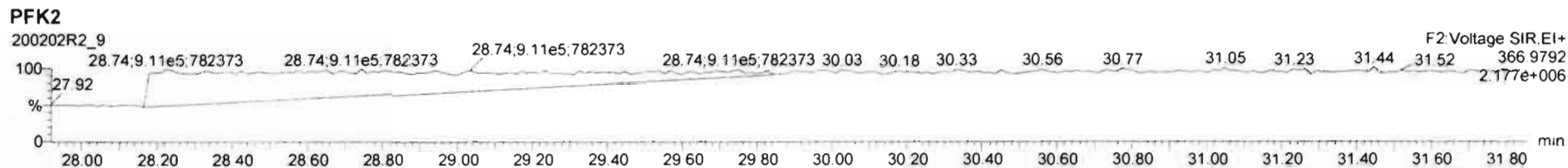
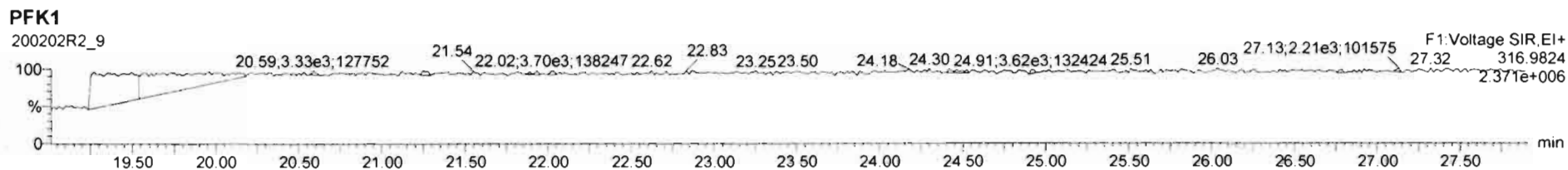
#	Name	Pred RT	RT	Int Resp	n2 Resp	% Ratio (Pred)	RA	n/y	EMPC	Conc.
1										



Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time
Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_9, Date: 03-Feb-2020, Time: 04:33:07, ID: 1903827-04 PDI-057SC-B-06-08-191023 17.29, Description: PDI-057SC-B-06-08-191023



Dataset: U:\VG12.PRO\Results\200318R2\200318R2-5.qld

Last Altered: Thursday, March 19, 2020 1:34:42 PM Pacific Daylight Time
Printed: Thursday, March 19, 2020 1:35:19 PM Pacific Daylight Time

GRB 03/19/2020

C9 03/23/2020

Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R2_5, Date: 19-Mar-2020, Time: 06:42:16, ID: 1903827-05RE3@2X PDI-062SC-B-00-02-191023 17.29, Description: PDI-062SC-B-00-02-191023

#	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	1.24e3	0.80	NO	0.983	10.003	25.796	25.80	1.001	1.001	0.55509		0.194	0.555
2	2 1,2,3,7,8-PeCDD	1.76e3	0.58	NO	0.921	10.003	31.071	31.06	1.001	1.000	1.1260		0.251	1.13
3	3 1,2,3,4,7,8-HxCDD	1.88e3	1.15	NO	1.13	10.003	34.459	34.46	1.000	1.000	1.3424		0.270	1.34
4	4 1,2,3,6,7,8-HxCDD	1.49e4	1.23	NO	0.984	10.003	34.555	34.57	1.000	1.000	10.326		0.268	10.3
5	5 1,2,3,7,8,9-HxCDD	4.55e3	1.32	NO	0.967	10.003	34.831	34.84	1.000	1.001	3.6159		0.314	3.62
6	6 1,2,3,4,6,7,8-HpCDD	6.81e5	1.04	NO	1.01	10.003	38.262	38.26	1.000	1.000	648.18		2.19	648
7	7 OCDD	5.59e6	0.88	NO	1.05	10.003	41.318	41.33	1.000	1.000	6388.6		1.61	6390
8	8 2,3,7,8-TCDF	2.40e4	0.77	NO	0.915	10.003	24.802	24.81	1.001	1.001	8.8167 (8.52)		0.293	8.82
9	9 1,2,3,7,8-PeCDF	3.01e4	1.54	NO	0.959	10.003	29.727	29.72	1.001	1.001	12.933		0.289	12.9
10	10 2,3,4,7,8-PeCDF	2.81e4	1.66	NO	1.00	10.003	30.759	30.76	1.001	1.001	12.206		0.271	12.2
11	11 1,2,3,4,7,8-HxCDF	3.64e4	1.19	NO	1.04	10.003	33.607	33.62	1.000	1.000	20.765		0.252	20.8
12	12 1,2,3,6,7,8-HxCDF	1.17e4	1.26	NO	1.01	10.003	33.734	33.74	1.000	1.000	6.4277		0.239	6.43
13	13 2,3,4,6,7,8-HxCDF	9.31e3	1.30	NO	1.09	10.003	34.323	34.31	1.001	1.001	5.0215		0.255	5.02
14	14 1,2,3,7,8,9-HxCDF	4.45e3	1.11	NO	1.03	10.003	35.192	35.22	1.001	1.002	3.0311		0.368	3.03
15	15 1,2,3,4,6,7,8-HpCDF	9.28e4	1.01	NO	1.05	10.003	36.893	36.87	1.001	1.000	76.987		0.473	77.0
16	16 1,2,3,4,7,8,9-HpCDF	6.02e3	1.00	NO	1.21	10.003	38.901	38.91	1.000	1.000	5.9917		0.578	5.99
17	17 OCDF	2.11e5	0.90	NO	0.947	10.003	41.488	41.50	1.000	1.000	232.44		0.534	232
18	18 13C-2,3,7,8-TCDD	4.54e5	0.78	NO	1.18	10.003	25.766	25.76	1.029	1.029	159.85	79.9	0.565	
19	19 13C-1,2,3,7,8-PeCDD	3.39e5	0.62	NO	0.864	10.003	30.956	31.05	1.236	1.240	163.19	81.6	0.380	
20	20 13C-1,2,3,4,7,8-HxCDD	2.47e5	1.29	NO	0.754	10.003	34.452	34.45	1.014	1.014	146.45	73.2	0.303	
21	21 13C-1,2,3,6,7,8-HxCDD	2.93e5	1.25	NO	0.925	10.003	34.561	34.56	1.017	1.017	141.37	70.7	0.246	
22	22 13C-1,2,3,7,8,9-HxCDD	2.60e5	1.26	NO	0.829	10.003	34.823	34.82	1.025	1.025	140.17	70.1	0.275	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.09e5	1.08	NO	0.598	10.003	38.282	38.25	1.127	1.126	156.15	78.1	0.553	
24	24 13C-OCDD	3.33e5	0.90	NO	0.571	10.003	41.432	41.32	1.219	1.216	260.69	65.2	0.483	
25	25 13C-2,3,7,8-TCDF	5.94e5	0.77	NO	1.09	10.003	24.787	24.78	0.990	0.989	157.41	78.7	0.874	
26	26 13C-1,2,3,7,8-PeCDF	4.84e5	1.59	NO	0.876	10.003	29.626	29.71	1.183	1.186	159.40	79.7	0.647	
27	27 13C-2,3,4,7,8-PeCDF	4.58e5	1.57	NO	0.844	10.003	30.637	30.73	1.223	1.227	156.74	78.4	0.672	
28	28 13C-1,2,3,4,7,8-HxCDF	3.37e5	0.50	NO	1.00	10.003	33.599	33.61	0.989	0.989	150.74	75.4	0.541	
29	29 13C-1,2,3,6,7,8-HxCDF	3.58e5	0.52	NO	1.12	10.003	33.708	33.72	0.992	0.992	143.31	71.7	0.484	
30	30 13C-2,3,4,6,7,8-HxCDF	3.39e5	0.51	NO	1.04	10.003	34.289	34.29	1.009	1.009	146.54	73.3	0.522	
31	31 13C-1,2,3,7,8,9-HxCDF	2.86e5	0.51	NO	0.873	10.003	35.163	35.15	1.035	1.034	146.54	73.3	0.619	

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-5.qld

Last Altered: Thursday, March 19, 2020 1:34:42 PM Pacific Daylight Time

Printed: Thursday, March 19, 2020 1:35:19 PM Pacific Daylight Time

Name: 200318R2_5, Date: 19-Mar-2020, Time: 06:42:16, ID: 1903827-05RE3@2X PDI-062SC-B-00-02-191023 17.29, Description: PDI-062SC-B-00-02-191023

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	2.30e5	0.44	NO	0.771	10.003	36.878	36.86	1.085	1.085	133.32	66.7	0.523	
33	13C-1,2,3,4,7,8,9-HpCDF	1.66e5	0.42	NO	0.519	10.003	38.965	38.90	1.147	1.145	142.97	71.5	0.776	
34	13C-OCDF	3.83e5	0.86	NO	0.696	10.003	41.612	41.49	1.225	1.221	246.18	61.6	0.337	
35	37Cl-2,3,7,8-TCDD	1.70e5			1.17	10.003	25.776	25.80	1.029	1.030	60.211	75.3	0.121	
36	13C-1,2,3,4-TCDD	4.80e5	0.81	NO	1.00	10.003	25.050	25.05	1.000	1.000	199.93	100	0.669	
37	13C-1,2,3,4-TCDF	6.93e5	0.79	NO	1.00	10.003	23.190	23.12	1.000	1.000	199.93	100	0.952	
38	13C-1,2,3,4,6,9-HxCDF	4.47e5	0.51	NO	1.00	10.003	33.880	33.98	1.000	1.000	199.93	100	0.541	
39	Total Tetra-Dioxins				0.983	10.003	24.620		0.000		7.0914		0.194	7.09
40	Total Penta-Dioxins				0.921	10.003	29.960		0.000		19.875		0.251	20.4
41	Total Hexa-Dioxins				0.984	10.003	33.635		0.000		129.94		0.294	130
42	Total Hepta-Dioxins				1.01	10.003	37.640		0.000		1520.2		2.19	1520
43	Total Tetra-Furans				0.915	10.003	23.610		0.000		81.673		0.293	81.7
44	1st Func. Penta-Furans				0.959	10.003	27.090		0.000		59.238		0.0726	59.2
45	Total Penta-Furans				0.959	10.003	29.275		0.000		77.848		0.286	78.7
46	Total Hexa-Furans				1.09	10.003	33.555		0.000		118.14		0.262	119
47	Total Hepta-Furans				1.05	10.003	37.835		0.000		284.93		0.554	285

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Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-5.qld

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Printed: Thursday, March 19, 2020 1:35:19 PM Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R2_5, Date: 19-Mar-2020, Time: 06:42:16, ID: 1903827-05RE3@2X PDI-062SC-B-00-02-191023 17.29, Description: PDI-062SC-B-00-02-191023

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.45	3.536e4	4.462e4	3.007e3	3.920e3	0.77	NO	6.927e3	3.0985	3.0985	0.194
2	Total Tetra-Dioxins	21.83	8.294e3	1.095e4	7.217e2	8.542e2	0.84	NO	1.576e3	0.70492	0.70492	0.194
3	Total Tetra-Dioxins	23.64	1.072e4	1.400e4	9.531e2	1.328e3	0.72	NO	2.281e3	1.0203	1.0203	0.194
4	Total Tetra-Dioxins	23.89	1.135e4	1.744e4	9.308e2	1.351e3	0.69	NO	2.282e3	1.0208	1.0208	0.194
5	Total Tetra-Dioxins	25.50	8.246e3	9.454e3	7.005e2	8.460e2	0.83	NO	1.546e3	0.69174	0.69174	0.194
6	2,3,7,8-TCDD	25.80	7.619e3	9.447e3	5.531e2	6.879e2	0.80	NO	1.241e3	0.55509	0.55509	0.194

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.75	5.350e4	7.789e4	3.873e3	6.100e3	0.63	NO	9.973e3	6.3906	6.3906	0.251
2	Total Penta-Dioxins	29.26	9.924e3	1.593e4	6.168e2	9.060e2	0.68	NO	1.523e3	0.97587	0.97587	0.251
3	Total Penta-Dioxins	29.78	5.320e4	8.531e4	3.050e3	4.792e3	0.64	NO	7.842e3	5.0252	5.0252	0.251
4	Total Penta-Dioxins	29.95	2.023e4	3.488e4	1.002e3	1.794e3	0.56	NO	2.795e3	1.7912	1.7912	0.251
5	Total Penta-Dioxins	30.06	1.373e4	2.105e4	6.429e2	1.064e3	0.60	NO	1.707e3	1.0941	1.0941	0.251
6	Total Penta-Dioxins	30.30	1.597e4	2.996e4	1.482e3	2.483e3	0.60	NO	3.965e3	2.5407	2.5407	0.251
7	Total Penta-Dioxins	30.61	4.643e3	6.038e3	2.701e2	4.302e2	0.63	NO	7.003e2	0.44878	0.44878	0.251
8	1,2,3,7,8-PeCDD	31.06	1.220e4	2.011e4	6.464e2	1.111e3	0.58	NO	1.757e3	1.1260	1.1260	0.251
9	Total Penta-Dioxins	31.16	5.083e3	8.304e3	2.847e2	4.691e2	0.61	NO	7.537e2	0.48301	0.48301	0.251
10	Total Penta-Dioxins	31.46	5.924e3	1.562e4	2.951e2	5.701e2	0.52	YES	0.000e0	0.00000	0.48930	0.251

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-5.qld

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Name: 200318R2_5, Date: 19-Mar-2020, Time: 06:42:16, ID: 1903827-05RE3@2X PDI-062SC-B-00-02-191023 17.29, Description: PDI-062SC-B-00-02-191023

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	7.694e5	6.624e5	3.701e4	3.019e4	1.23	NO	6.720e4	51.206	51.206	0.294
2	Total Hexa-Dioxins	33.56	8.914e4	7.635e4	4.243e3	3.628e3	1.17	NO	7.872e3	5.9984	5.9984	0.294
3	Total Hexa-Dioxins	33.81	6.137e5	5.208e5	3.850e4	3.075e4	1.25	NO	6.924e4	52.767	52.767	0.294
4	Total Hexa-Dioxins	33.90	3.958e4	3.933e4	1.966e3	1.614e3	1.22	NO	3.580e3	2.7281	2.7281	0.294
5	1,2,3,4,7,8-HxCDD	34.46	2.308e4	1.541e4	1.005e3	8.723e2	1.15	NO	1.878e3	1.3424	1.3424	0.270
6	1,2,3,6,7,8-HxCDD	34.57	1.449e5	1.253e5	8.208e3	6.669e3	1.23	NO	1.488e4	10.326	10.326	0.268
7	Total Hexa-Dioxins	34.75	2.436e4	2.515e4	1.377e3	1.190e3	1.16	NO	2.567e3	1.9561	1.9561	0.294
8	1,2,3,7,8,9-HxCDD	34.84	4.130e4	3.162e4	2.592e3	1.958e3	1.32	NO	4.549e3	3.6159	3.6159	0.314

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.25	6.785e6	6.776e6	4.635e5	4.532e5	1.02	NO	9.167e5	872.03	872.03	2.19
2	1,2,3,4,6,7,8-HpCDD	38.26	4.717e6	4.498e6	3.476e5	3.338e5	1.04	NO	6.814e5	648.18	648.18	2.19

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-5.qld

Last Altered: Thursday, March 19, 2020 1:34:42 PM Pacific Daylight Time
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Name: 200318R2_5, Date: 19-Mar-2020, Time: 06:42:16, ID: 1903827-05RE3@2X PDI-062SC-B-00-02-191023 17.29, Description: PDI-062SC-B-00-02-191023

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.42	9.368e3	1.085e4	7.202e2	9.946e2	0.72	NO	1.715e3	0.63008	0.63008	0.293
2	Total Tetra-Furans	19.94	3.904e4	4.885e4	3.000e3	3.946e3	0.76	NO	6.946e3	2.5522	2.5522	0.293
3	Total Tetra-Furans	20.50	1.833e5	2.471e5	1.624e4	2.160e4	0.75	NO	3.784e4	13.905	13.905	0.293
4	Total Tetra-Furans	20.93	1.413e4	1.739e4	1.609e3	1.872e3	0.86	NO	3.481e3	1.2790	1.2790	0.293
5	Total Tetra-Furans	21.05	1.134e4	1.687e4	1.067e3	1.536e3	0.69	NO	2.604e3	0.95663	0.95663	0.293
6	Total Tetra-Furans	21.41	8.402e4	1.002e5	8.219e3	1.010e4	0.81	NO	1.831e4	6.7292	6.7292	0.293
7	Total Tetra-Furans	21.87	1.219e5	1.334e5	1.004e4	1.264e4	0.79	NO	2.268e4	8.3346	8.3346	0.293
8	Total Tetra-Furans	22.25	1.264e4	1.549e4	1.081e3	1.243e3	0.87	NO	2.324e3	0.85408	0.85408	0.293
9	Total Tetra-Furans	22.82	1.148e4	1.507e4	1.071e3	1.292e3	0.83	NO	2.363e3	0.86831	0.86831	0.293
10	Total Tetra-Furans	23.03	9.863e4	1.238e5	9.407e3	1.234e4	0.76	NO	2.174e4	7.9892	7.9892	0.293
11	Total Tetra-Furans	23.10	2.370e4	2.794e4	1.524e3	2.052e3	0.74	NO	3.576e3	1.3139	1.3139	0.293
12	Total Tetra-Furans	23.73	1.103e5	1.521e5	1.230e4	1.656e4	0.74	NO	2.886e4	10.604	10.604	0.293
13	Total Tetra-Furans	24.06	9.598e3	1.278e4	5.896e2	8.805e2	0.67	NO	1.470e3	0.54015	0.54015	0.293
14	Total Tetra-Furans	24.54	9.311e3	1.231e4	6.857e2	7.880e2	0.87	NO	1.474e3	0.54148	0.54148	0.293
15	Total Tetra-Furans	24.66	2.918e4	3.116e4	2.057e3	2.660e3	0.77	NO	4.717e3	1.7333	1.7333	0.293
16	2,3,7,8-TCDF	24.81	1.250e5	1.691e5	1.047e4	1.353e4	0.77	NO	2.400e4	8.8167	8.8167	0.293
17	Total Tetra-Furans	25.23	1.287e4	1.615e4	1.066e3	1.314e3	0.81	NO	2.380e3	0.87447	0.87447	0.293
18	Total Tetra-Furans	25.93	1.287e4	1.459e4	8.257e2	1.006e3	0.82	NO	1.832e3	0.67314	0.67314	0.293
19	Total Tetra-Furans	26.54	6.032e4	8.636e4	4.096e3	5.595e3	0.73	NO	9.692e3	3.5610	3.5610	0.293 P
20	Total Tetra-Furans	26.71	1.077e5	1.309e5	7.010e3	9.142e3	0.77	NO	1.615e4	5.9348	5.9348	0.293 P
21	Total Tetra-Furans	27.01	4.836e4	5.488e4	3.726e3	4.389e3	0.85	NO	8.115e3	2.9817	2.9817	0.293

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.01	1.146e6	7.281e5	8.165e4	5.234e4	1.56	NO	1.340e5	59.238	59.238	0.0726

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-5.qld

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Name: 200318R2_5, Date: 19-Mar-2020, Time: 06:42:16, ID: 1903827-05RE3@2X PDI-062SC-B-00-02-191023 17.29, Description: PDI-062SC-B-00-02-191023

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.53	3.788e4	2.238e4	2.555e3	1.466e3	1.74	NO	4.021e3	1.7775	1.7775	0.286
2	Total Penta-Furans	28.68	4.791e5	2.996e5	3.486e4	2.190e4	1.59	NO	5.677e4	25.098	25.098	0.286
3	Total Penta-Furans	28.74	3.968e4	2.916e4	1.376e3	9.982e2	1.38	NO	2.374e3	1.0497	1.0497	0.286
4	Total Penta-Furans	29.29	1.945e5	1.378e5	1.259e4	8.355e3	1.51	NO	2.095e4	9.2615	9.2615	0.286
5	Total Penta-Furans	29.54	5.441e4	3.348e4	2.706e3	1.860e3	1.45	NO	4.566e3	2.0189	2.0189	0.286
6	1,2,3,7,8-PeCDF	29.72	3.055e5	2.018e5	1.820e4	1.185e4	1.54	NO	3.006e4	12.933	12.933	0.289
7	Total Penta-Furans	30.01	1.871e5	1.181e5	9.898e3	6.090e3	1.63	NO	1.599e4	7.0682	7.0682	0.286
8	Total Penta-Furans	30.09	8.914e4	5.948e4	4.487e3	2.809e3	1.60	NO	7.296e3	3.2257	3.2257	0.286 P
9	2,3,4,7,8-PeCDF	30.76	3.126e5	1.915e5	1.751e4	1.057e4	1.66	NO	2.808e4	12.206	12.206	0.271
10	Total Penta-Furans	30.79	2.297e5	1.368e5	4.582e3	2.678e3	1.71	NO	7.260e3	3.2099	3.2099	0.286
11	Total Penta-Furans	31.63	8.968e3	8.653e3	4.115e2	3.516e2	1.17	YES	0.000e0	0.00000	0.29932	0.286 P
12	Total Penta-Furans	31.70	1.588e4	1.534e4	7.932e2	6.119e2	1.30	YES	0.000e0	0.00000	0.57691	0.286

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.44	1.707e5	1.421e5	1.029e4	8.444e3	1.22	NO	1.873e4	10.384	10.384	0.262
2	Total Hexa-Furans	32.63	7.582e5	6.014e5	2.720e4	2.199e4	1.24	NO	4.919e4	27.272	27.272	0.262
3	Total Hexa-Furans	32.97	1.293e4	7.342e3	5.348e2	4.796e2	1.12	NO	1.014e3	0.56241	0.56241	0.262
4	Total Hexa-Furans	33.16	9.987e5	7.725e5	4.416e4	3.556e4	1.24	NO	7.971e4	44.195	44.195	0.262
5	Total Hexa-Furans	33.51	1.412e4	9.374e3	4.828e2	3.908e2	1.24	NO	8.737e2	0.48438	0.48438	0.262
6	1,2,3,4,7,8-HxCDF	33.62	3.854e5	3.328e5	1.974e4	1.662e4	1.19	NO	3.636e4	20.765	20.765	0.252
7	1,2,3,6,7,8-HxCDF	33.74	1.199e5	1.020e5	6.500e3	5.163e3	1.26	NO	1.166e4	6.4277	6.4277	0.239
8	2,3,4,6,7,8-HxCDF	34.31	9.196e4	8.253e4	5.265e3	4.041e3	1.30	NO	9.306e3	5.0215	5.0215	0.255
9	1,2,3,7,8,9-HxCDF	35.22	4.467e4	4.141e4	2.346e3	2.108e3	1.11	NO	4.454e3	3.0311	3.0311	0.368
10	Total Hexa-Furans	35.24	2.842e4	1.838e4	4.159e2	3.402e2	1.22	NO	0.000e0	0.00000	0.41922	0.262

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-5.qld

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.87	7.291e5	6.907e5	4.670e4	4.606e4	1.01	NO	9.277e4	76.987	76.987	0.473
2	Total Hepta-Furans	37.25	8.991e3	9.118e3	5.951e2	5.826e2	1.02	NO	1.178e3	1.1348	1.1348	0.554
3	Total Hepta-Furans	37.44	1.472e6	1.446e6	1.049e5	1.035e5	1.01	NO	2.084e5	200.82	200.82	0.554
4	1,2,3,4,7,8,9-HpCDF	38.91	4.238e4	4.714e4	3.009e3	3.012e3	1.00	NO	6.020e3	5.9917	5.9917	0.578

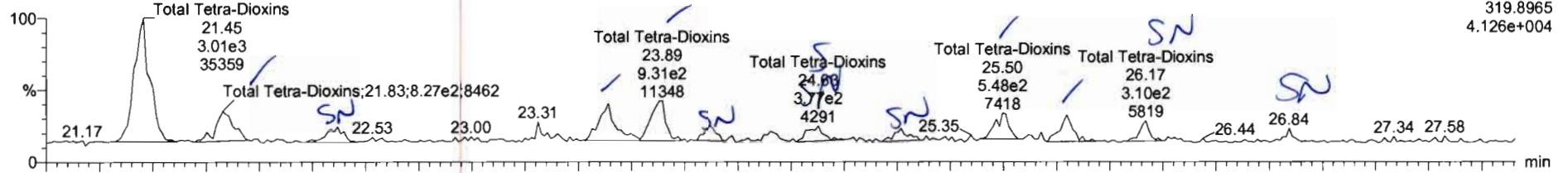
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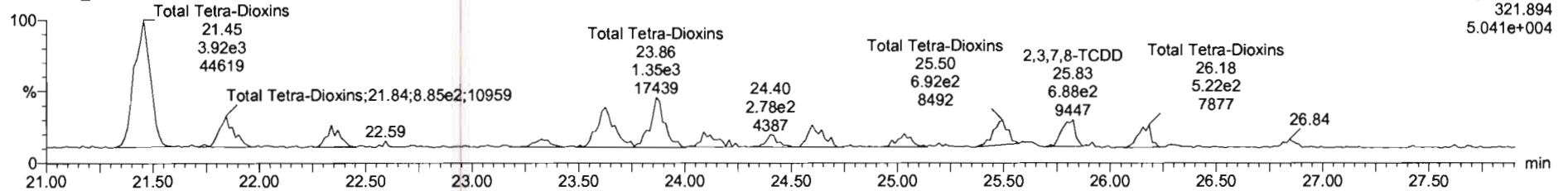
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200318R2_5

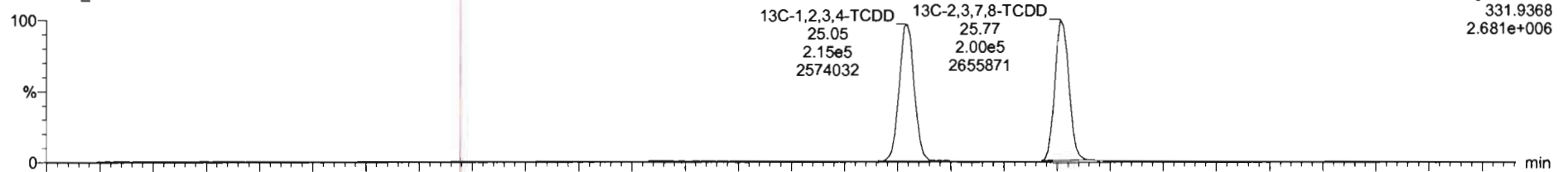


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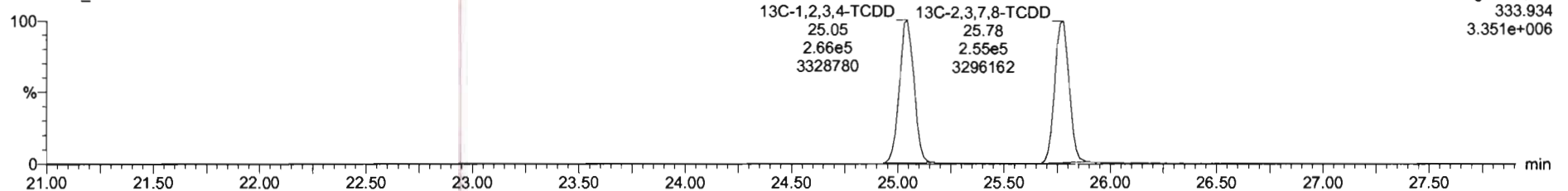


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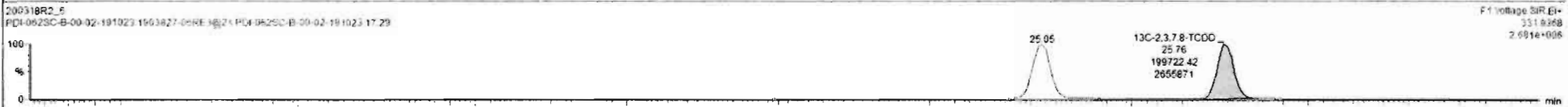
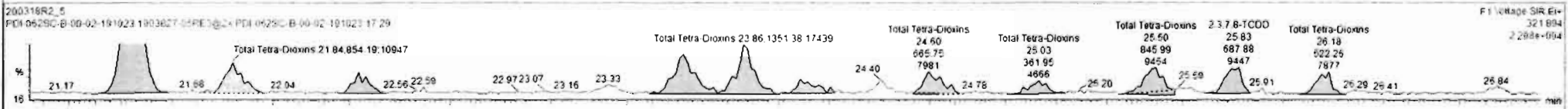
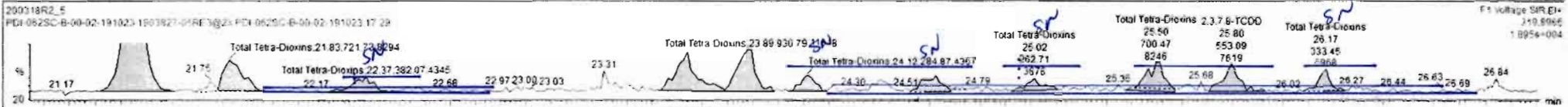


200318R2_5



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.003			6.06		0.194	8.81
40 Total Penta-Dioxins				0.9212	10.003			18.4		0.251	20.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	21.45	3.007e3	3.920e3	0.77	NO	3.0965	3.0965
2 Total Tetra-Dioxins	21.63	7.217e2	8.542e2	0.84	NO	0.70492	0.70492
3 Total Tetra-Dioxins	22.37	5.821e2	4.927e2	0.76	NO	0.39130	0.39130
4 Total Tetra-Dioxins	23.64	9.531e2	1.328e3	0.72	NO	1.0203	1.0203
5 Total Tetra-Dioxins	23.89	9.306e2	1.351e3	0.69	NO	1.0208	1.0208
6 Total Tetra-Dioxins	24.12	2.849e2	4.208e2	0.68	NO	0.31563	0.31563
7 Total Tetra-Dioxins	24.63	3.736e2	6.658e2	0.57	YES	0.36061	0.00000
8 Total Tetra-Dioxins	25.02	2.627e2	3.620e2	0.73	NO	0.27942	0.27942
9 Total Tetra-Dioxins	25.50	7.005e2	8.460e2	0.83	NO	0.69174	0.69174
10 2,3,7,8-TCDD	25.50	5.531e2	8.679e2	0.80	NO	0.55509	0.55509
11 Total Tetra-Dioxins	26.17	3.334e2	5.223e2	0.64	YES	0.34286	0.00000



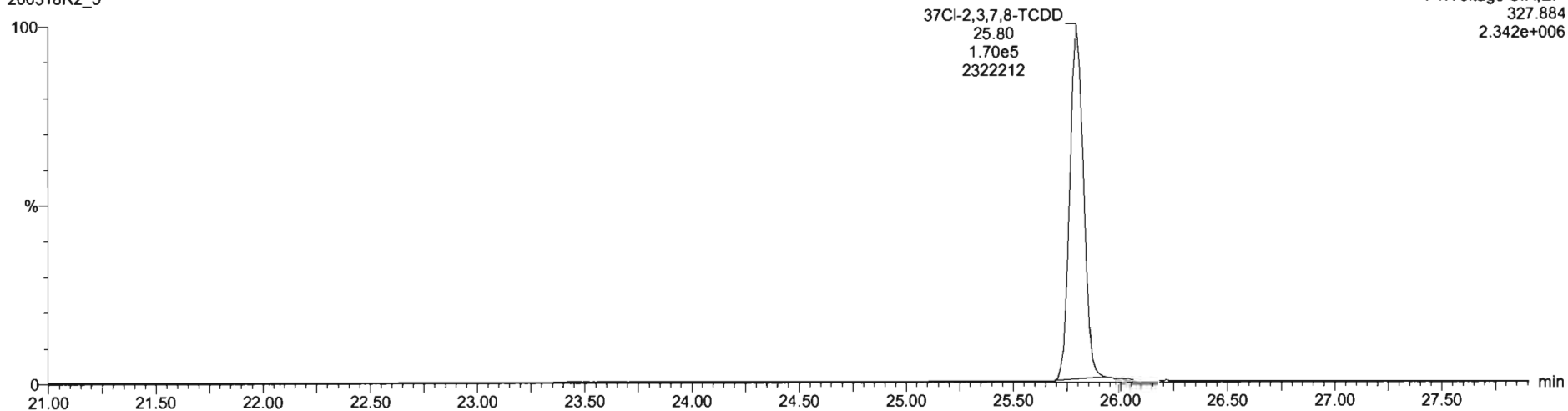
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Name: 200318R2_5, Date: 19-Mar-2020, Time: 06:42:16, ID: 1903827-05RE3@2X PDI-062SC-B-00-02-191023 17.29, Description: PDI-062SC-B-00-02-191023

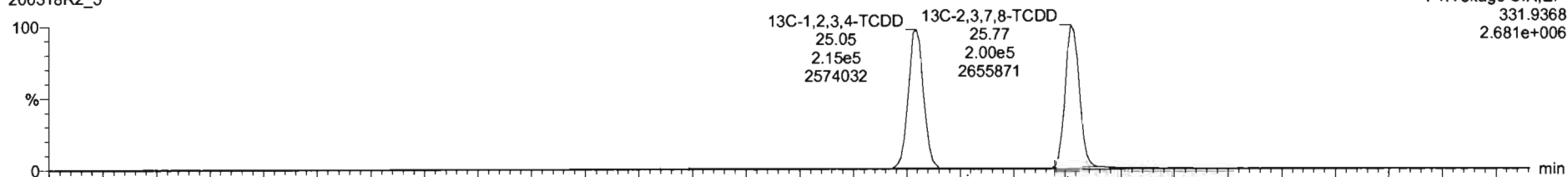
37Cl-2,3,7,8-TCDD

200318R2_5

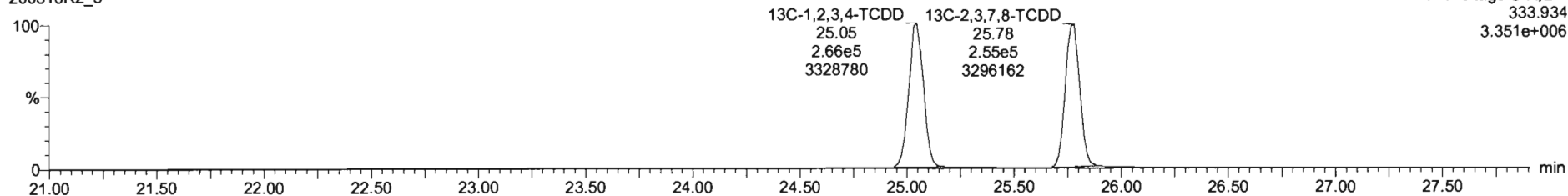


13C-1,2,3,4-TCDD

200318R2_5



200318R2_5



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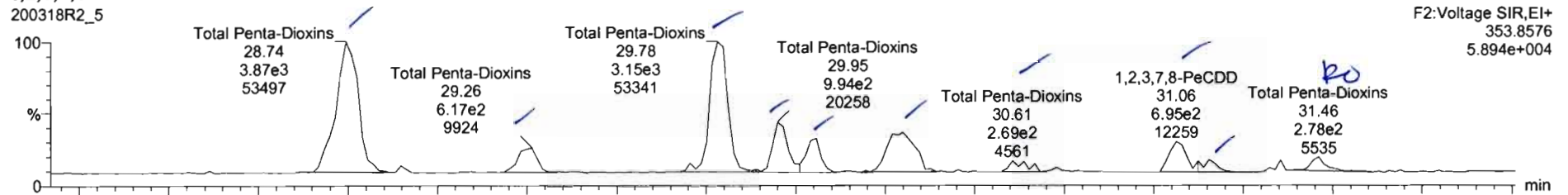
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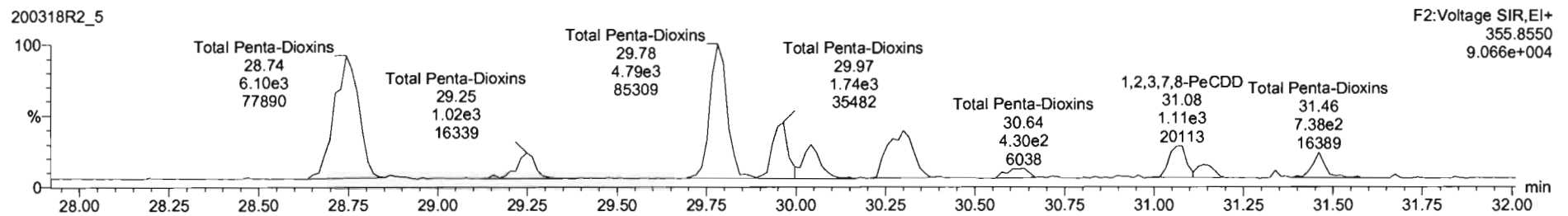
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1,2,3,7,8-PeCDD

200318R2_5

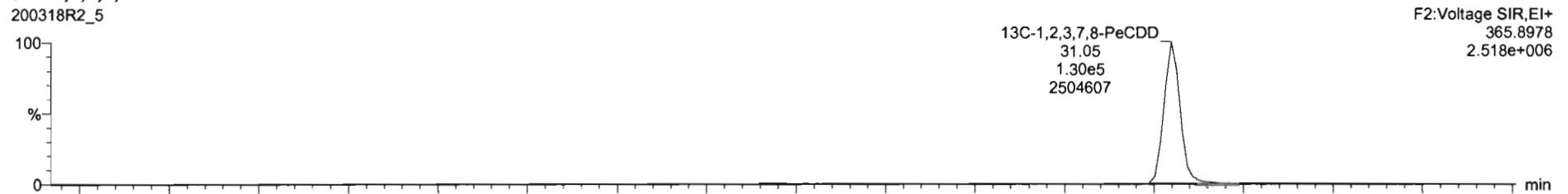


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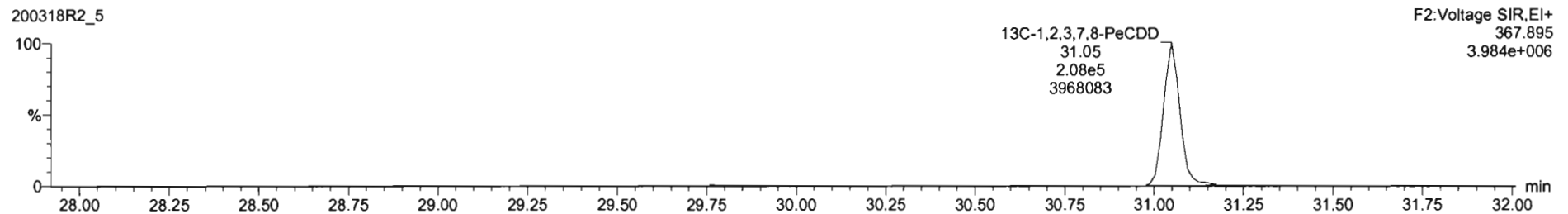


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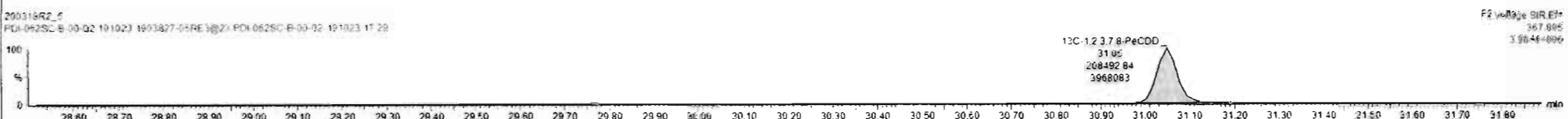
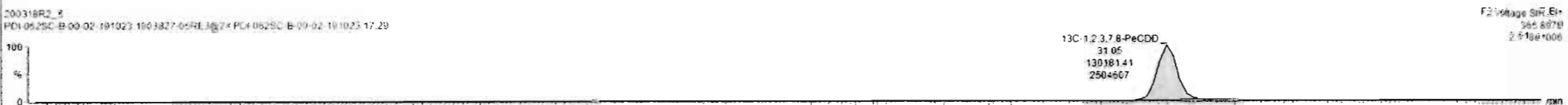
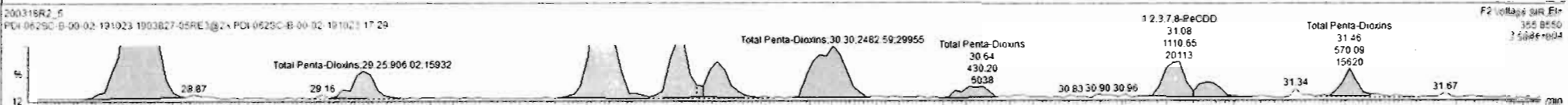
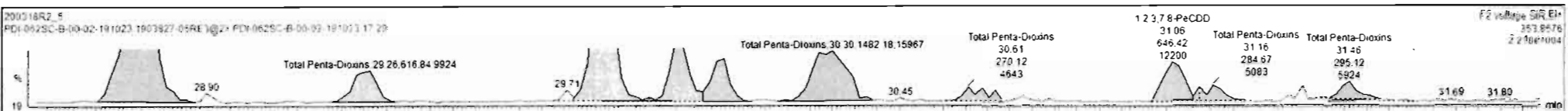


200318R2_5



Name	Resp	RA	ny	RF	WV	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9621	10.003			7.69		0.154	7.99
40 Total Penta-Dioxins				0.9212	10.003			19.8		0.251	20.4

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc
1 Total Penta-Dioxins	28.75	3.873e3	6.190e3	0.83	NO	6.3506	6.3906
2 Total Penta-Dioxins	29.26	6.166e2	9.060e2	0.88	NO	0.97567	0.97567
3 Total Penta-Dioxins	29.76	3.050e3	4.792e3	0.64	NO	4.0262	5.0262
4 Total Penta-Dioxins	29.95	1.002e3	1.794e3	0.56	NO	1.7912	1.7912
5 Total Penta-Dioxins	30.06	6.429e2	1.064e3	0.80	NO	1.0941	1.0941
6 Total Penta-Dioxins	30.30	1.482e3	2.483e3	0.60	NO	2.5407	2.5407
7 Total Penta-Dioxins	30.61	2.701e2	4.302e2	0.63	NO	0.44678	0.44678
8 1,2,3,7,8-PeCDD	31.06	6.464e2	1.111e3	0.58	NO	1.1260	1.1260
9 Total Penta-Dioxins	31.16	2.847e2	4.891e2	0.61	NO	0.48301	0.48301
10 Total Penta-Dioxins	31.46	2.551e2	5.701e2	0.52	YES	0.48930	0.00000



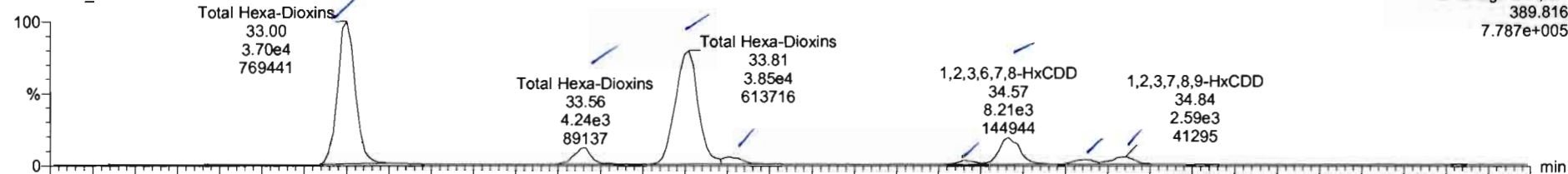
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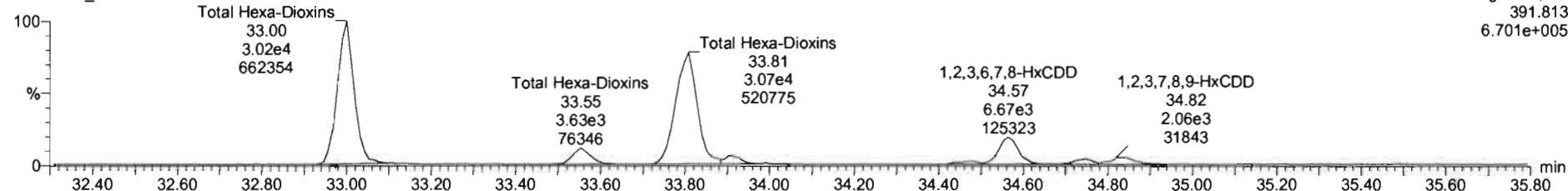
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1,2,3,4,7,8-HxCDD

200318R2_5

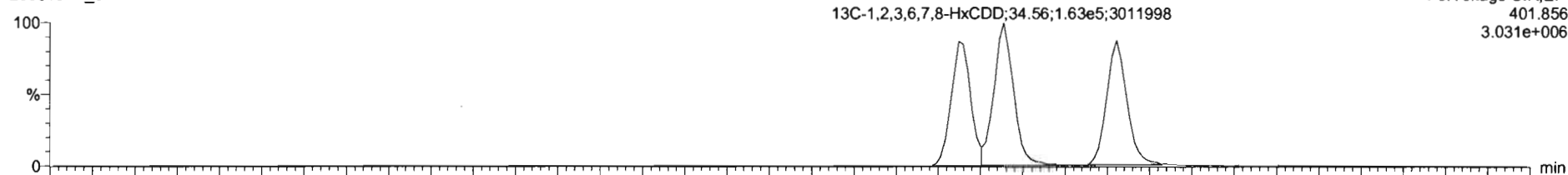


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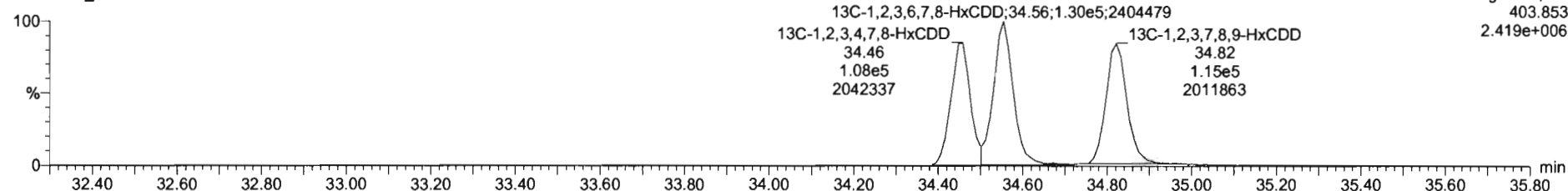


13C-1,2,3,4,7,8-HxCDD

200318R2_5

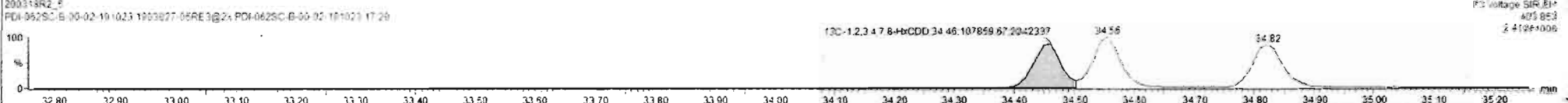
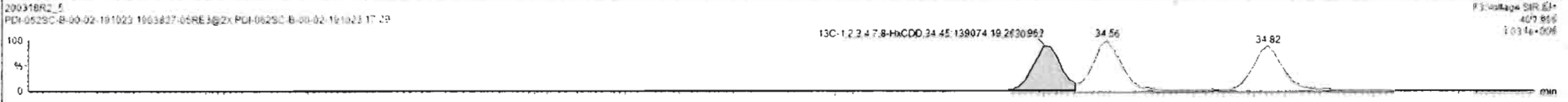
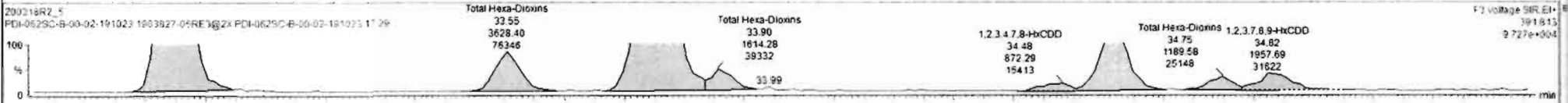
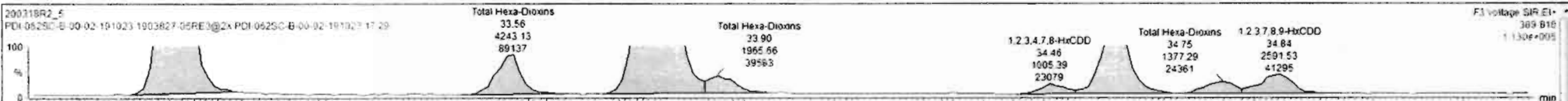


200318R2_5



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9825	10.002			7.69		0.194	7.09
40 Total Penta-Dioxins				0.9212	10.002			19.9		0.251	20.4

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Dioxins	33.00	3.701e4	3.019e4	1.23	NO	51.206	51.206
2 Total Hexa-Dioxins	33.56	4.243e3	3.528e2	1.17	NO	5.9964	5.9964
3 Total Hexa-Dioxins	33.81	3.850e4	2.075e4	1.26	NO	52.767	52.767
4 Total Hexa-Dioxins	33.90	1.966e3	1.614e2	1.22	NO	2.7281	2.7281
5 1,2,3,4,7,8-HxCDD	34.46	1.005e3	8.723e2	1.15	NO	1.3424	1.3424
6 1,2,3,6,7,8-HxCDD	34.57	8.208e3	6.669e3	1.22	NO	10.326	10.326
7 Total Hexa-Dioxins	34.75	1.377e3	1.190e3	1.16	NO	1.9561	1.9561
8 1,2,3,7,8,9-HxCDD	34.84	2.592e3	1.558e2	1.32	NO	2.8159	3.6159



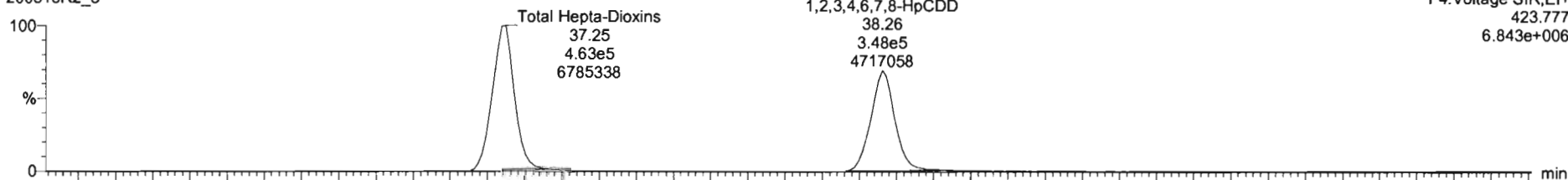
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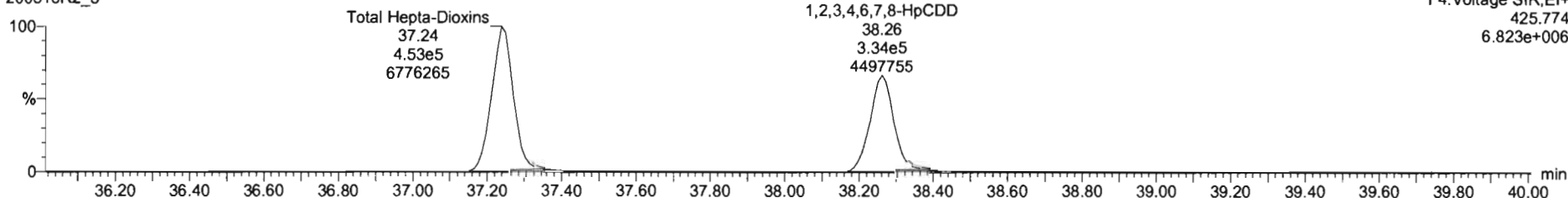
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1,2,3,4,6,7,8-HpCDD

200318R2_5

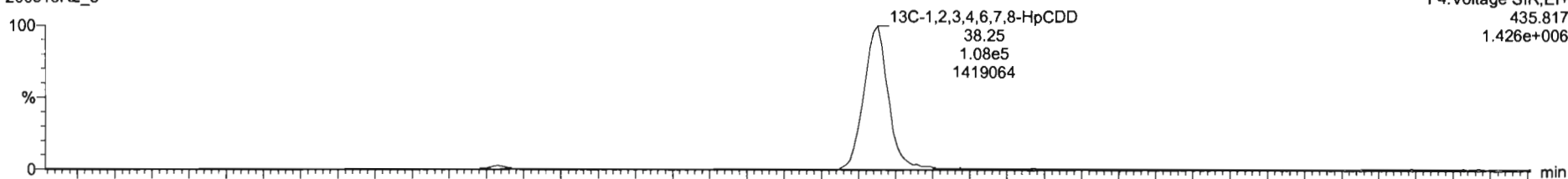


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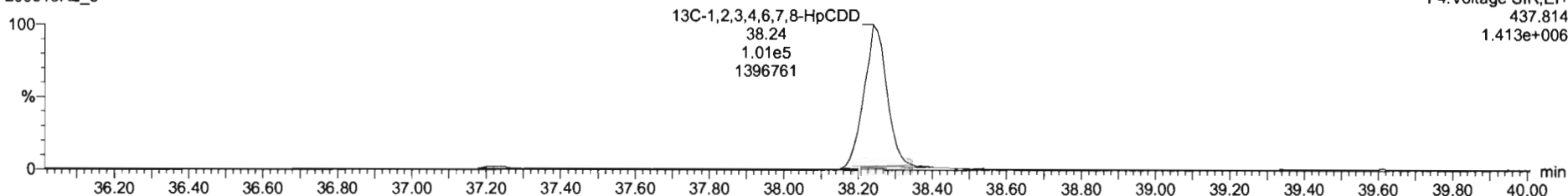


13C-1,2,3,4,6,7,8-HpCDD

200318R2_5



200318R2_5

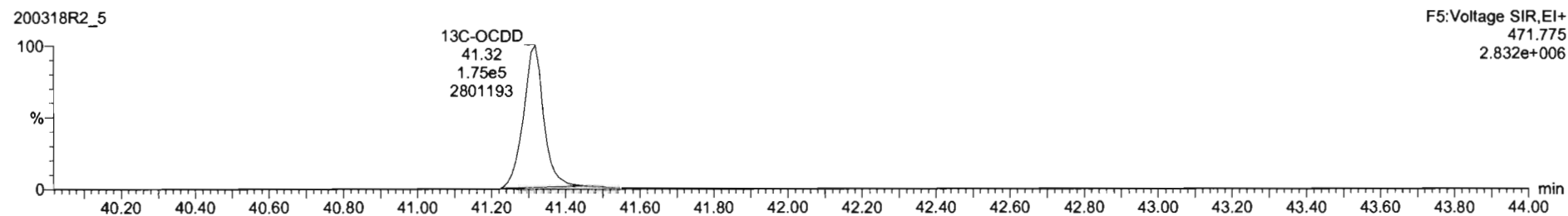
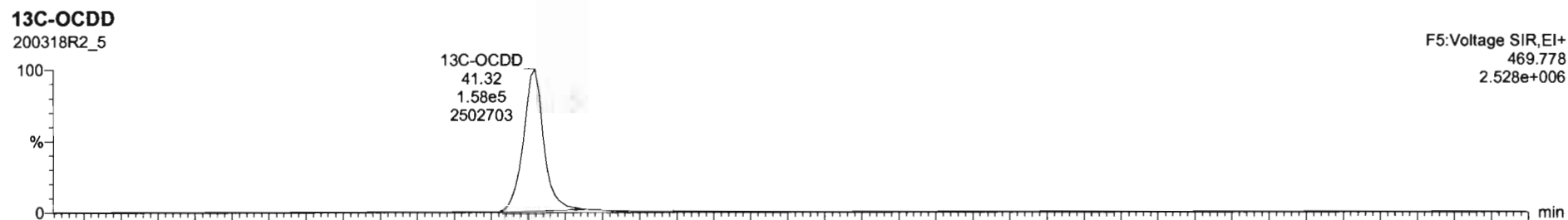
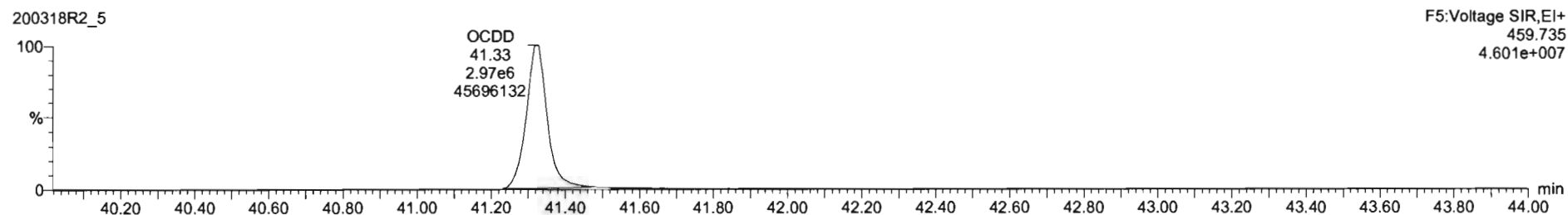
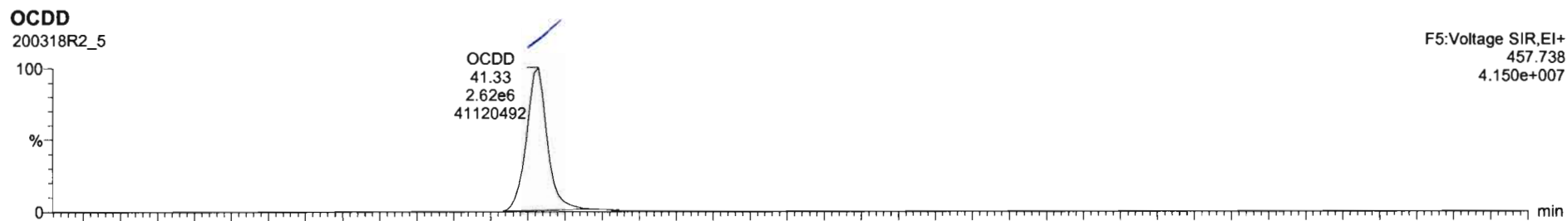


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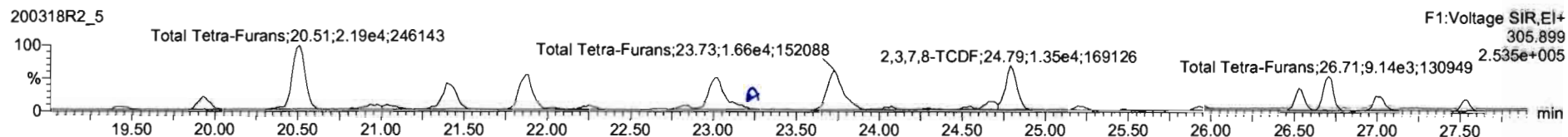
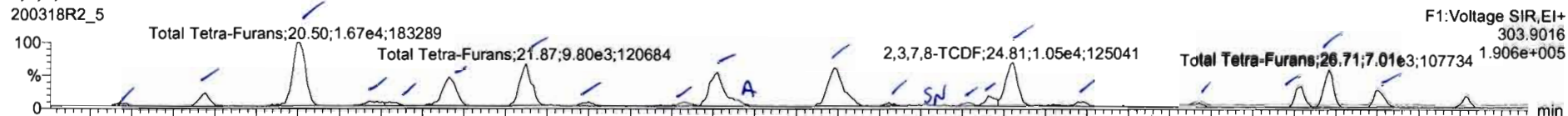
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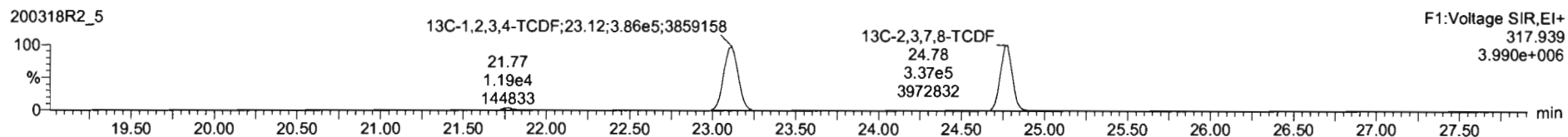
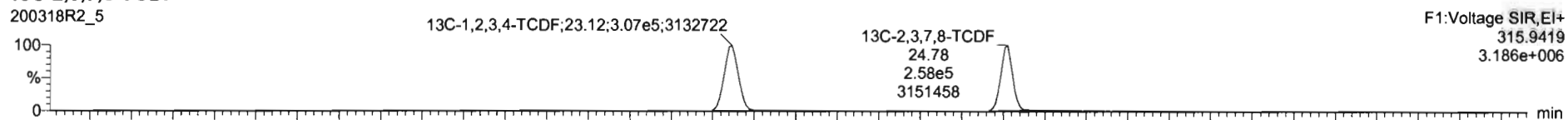
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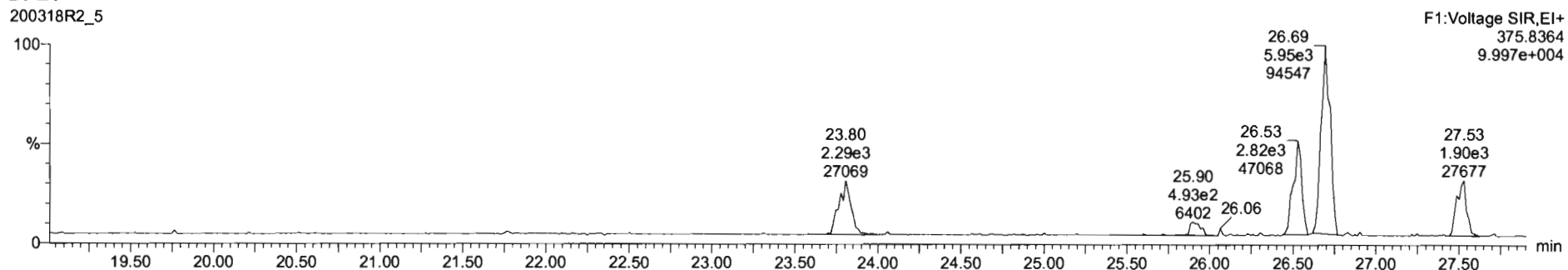
2,3,7,8-TCDF



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

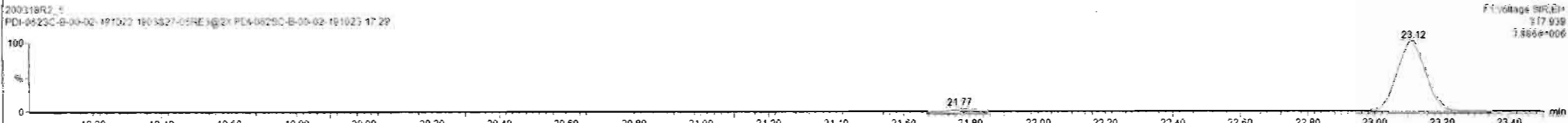
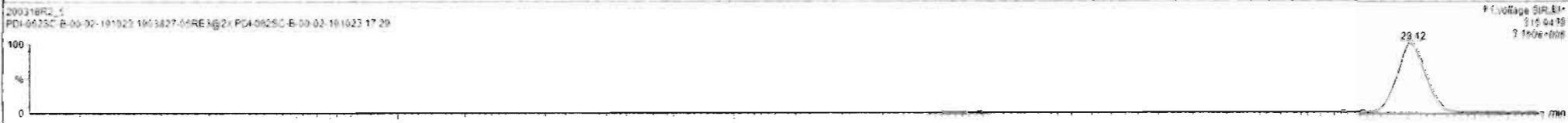
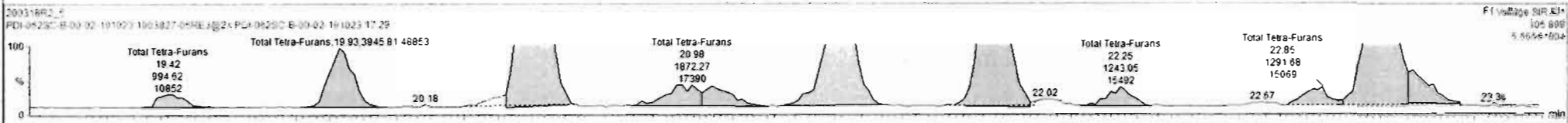
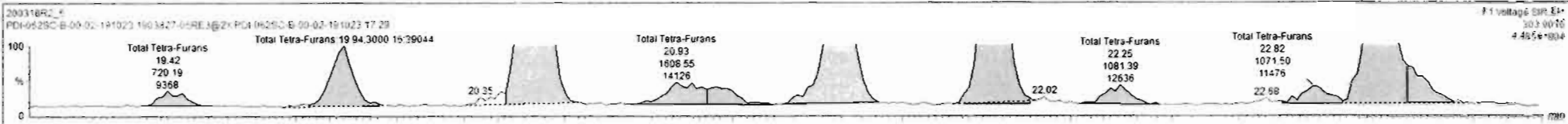


DPE1



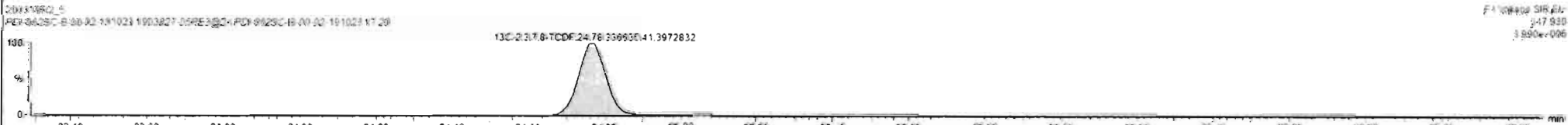
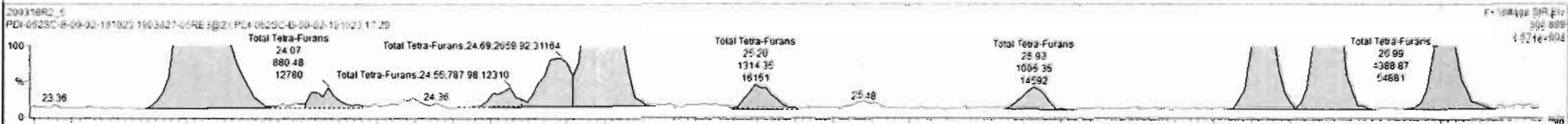
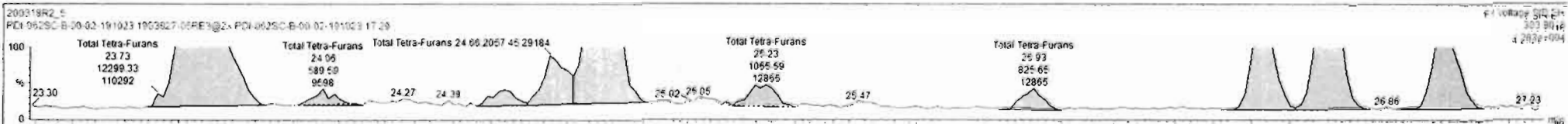
Name	Resp	RA	n/y	RRF	w/wof	RT	RRT	Conc	%Rec	DL	EMPC
42	Total Hexa-Dioxins			1.00E1	10.003			1520	2.19	1520	
43	Total Tetra-Furans			0.8154	10.803			81.9	0.283	83.3	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	19.42	7.202e2	9.945e2	0.72	NO	0.63008
2	Total Tetra-Furans	19.94	3.000e3	3.546e2	0.76	NO	2.5522
3	Total Tetra-Furans	20.50	1.824e4	2.180e4	0.75	NO	13.905
4	Total Tetra-Furans	20.93	1.809e3	1.872e3	0.88	NO	1.2790
5	Total Tetra-Furans	21.05	1.057e3	1.538e3	0.85	NO	0.85683
6	Total Tetra-Furans	21.41	8.219e3	1.010e4	0.81	NO	6.7292
7	Total Tetra-Furans	21.87	1.004e4	1.264e4	0.79	NO	8.3346
8	Total Tetra-Furans	22.25	1.081e3	1.243e2	0.87	NO	0.85408
9	Total Tetra-Furans	22.62	1.071e3	1.252e3	0.83	NO	0.86831
10	Total Tetra-Furans	23.03	9.407e3	1.234e4	0.76	NO	7.9892
11	Total Tetra-Furans	23.10	1.524e3	2.052e3	0.74	NO	1.3135



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.00E1	10.003			1520	2.19	1520	
43 Total Tetra-Furans				0.9154	10.003			81.7		0.283	81.7

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
12 Total Tetra-Furans	23.73	1.230e4	1.556e4	0.74	NO	10.504	10.504
13 Total Tetra-Furans	24.06	5.896e2	8.805e2	0.67	NO	0.54015	0.54015
14 Total Tetra-Furans	24.54	6.857e2	7.890e2	0.67	NO	0.54148	0.54148
15 Total Tetra-Furans	24.66	2.057e3	2.680e3	0.77	NO	1.7333	1.7333
16 2,3,7,8-TCDF	24.81	1.047e4	1.353e4	0.77	NO	8.8167	8.8167
17 Total Tetra-Furans	25.23	1.056e3	1.314e3	0.81	NO	0.87447	0.87447
18 Total Tetra-Furans	25.53	6.257e2	1.006e3	0.82	NO	0.67314	0.67314
19 Total Tetra-Furans	26.54	4.386e3	5.595e3	0.73	NO	3.5610	3.5610
20 Total Tetra-Furans	26.71	7.010e3	9.142e3	0.77	NO	5.9348	5.9348
21 Total Tetra-Furans	27.01	3.726e3	4.389e3	0.85	NO	2.9817	2.9817

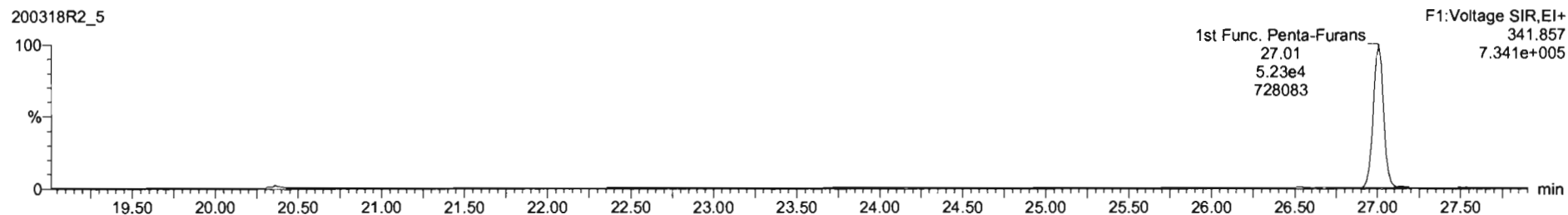
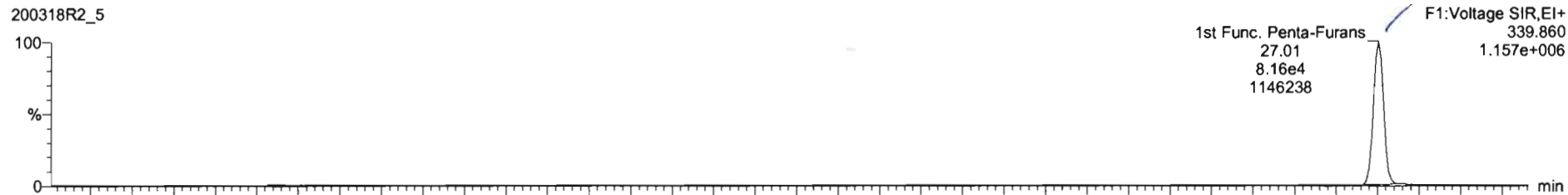


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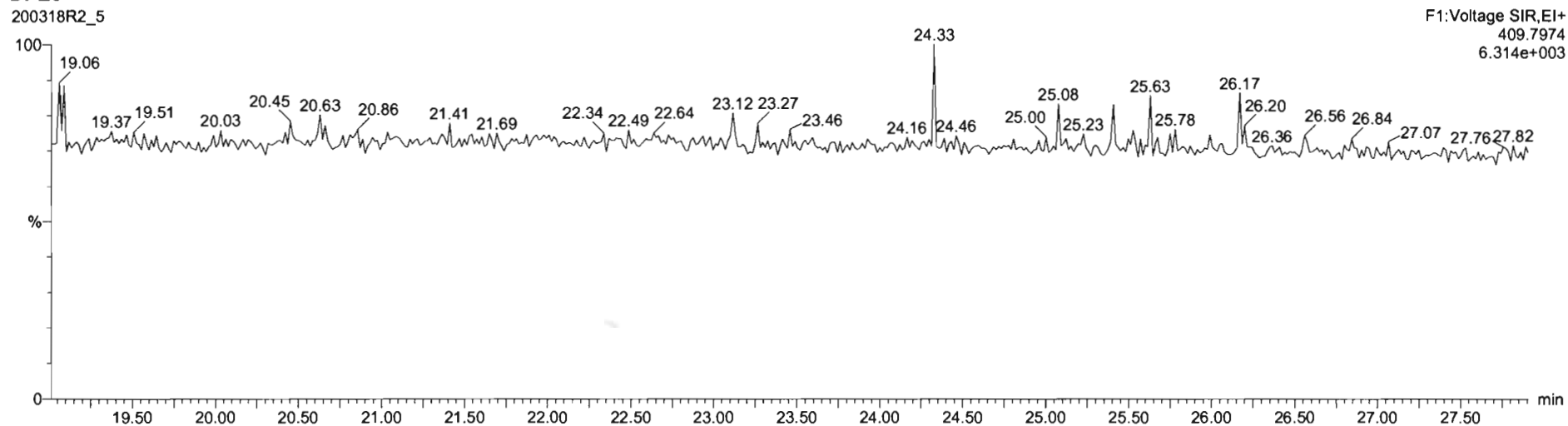
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1st Func. Penta-Furans



DPE6

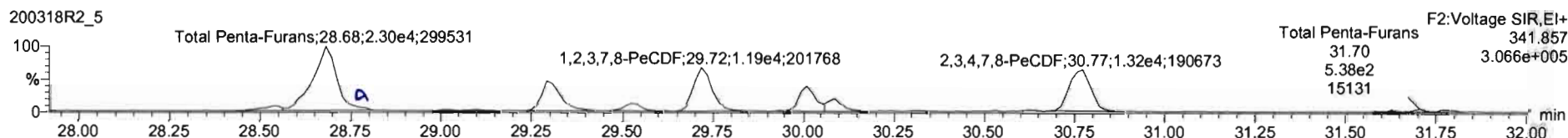
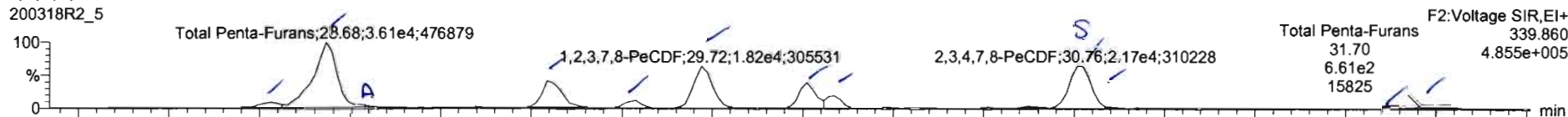


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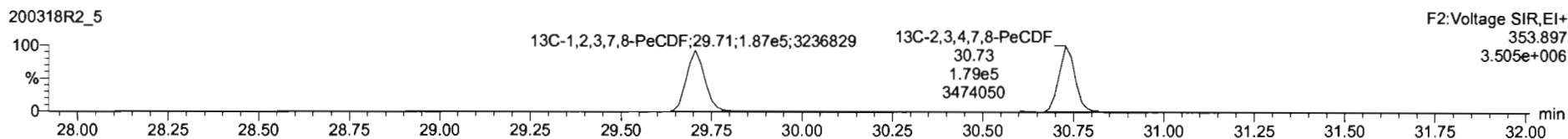
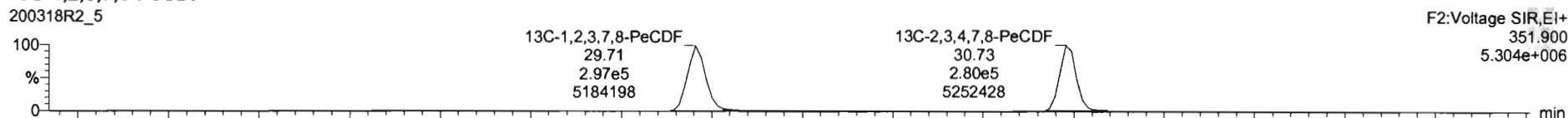
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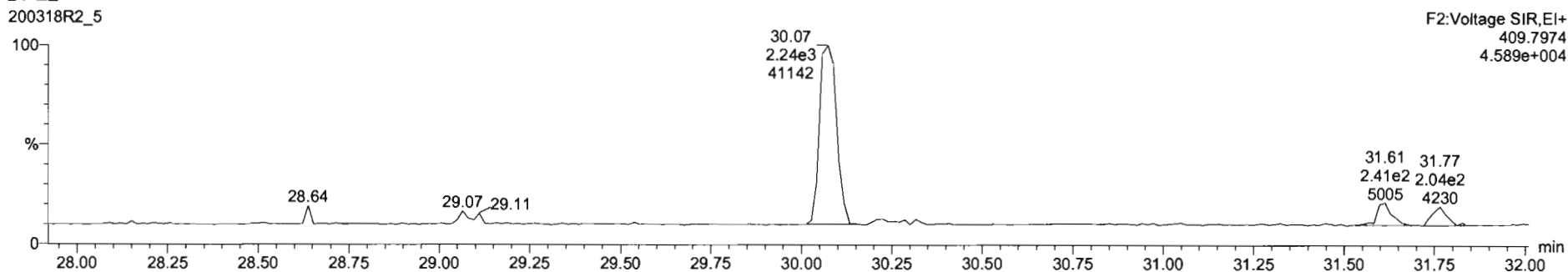
1,2,3,7,8-PeCDF

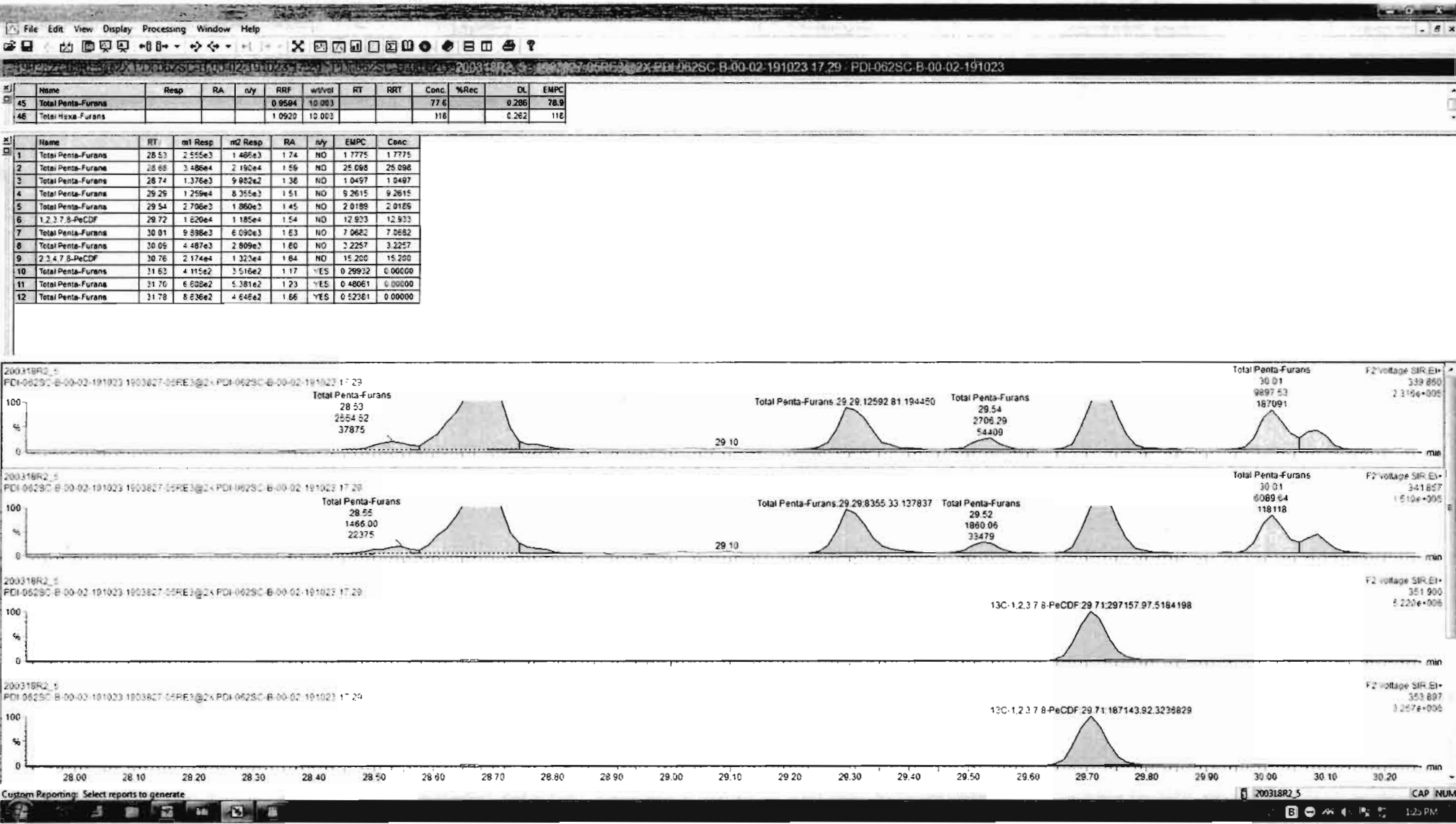


13C-1,2,3,7,8-PeCDF



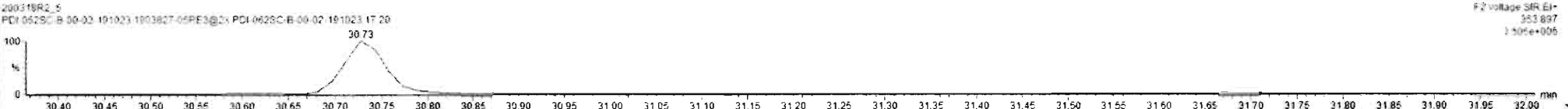
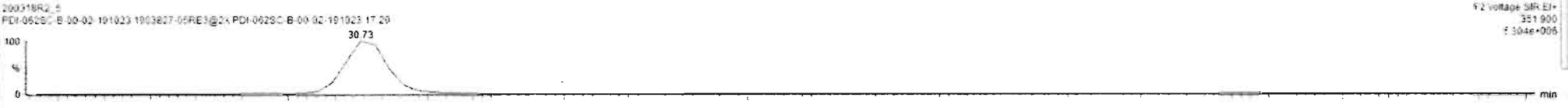
DPE2





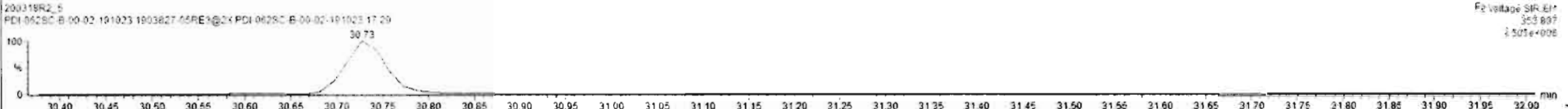
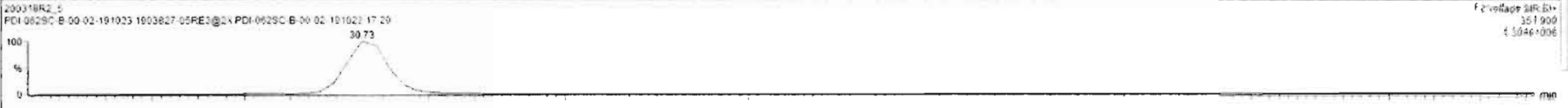
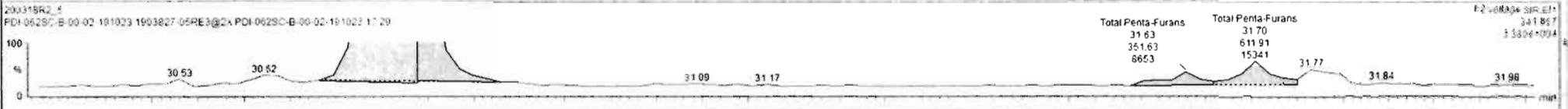
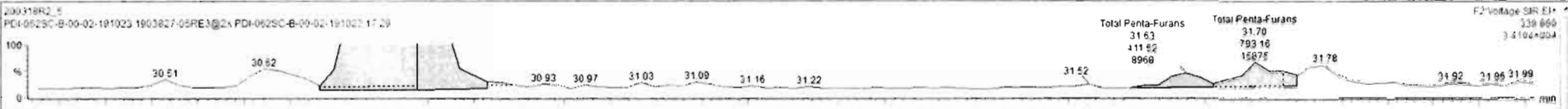
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9584	10.003			77.8		0.286	78.7
46 Total Hexa-Furans				1.9920	10.003			118		0.262	118

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.53	2.555e3	1.465e3	1.74	NO	1.7775	1.7775
2 Total Penta-Furans	28.68	3.488e4	2.190e4	1.59	NO	25.098	25.098
3 Total Penta-Furans	28.74	1.376e3	9.982e2	1.38	NO	1.0497	1.0497
4 Total Penta-Furans	29.29	1.258e4	8.355e3	1.51	NO	9.2615	9.2615
5 Total Penta-Furans	29.54	2.706e2	1.860e3	1.45	NO	2.0189	2.0189
6 1,2,3,7,8-PeCDF	29.72	1.820e4	1.185e4	1.54	NO	12.933	12.933
7 Total Penta-Furans	30.01	9.898e3	6.080e3	1.63	NO	7.0682	7.0682
8 Total Penta-Furans	30.09	4.487e3	2.809e3	1.80	NO	3.2257	3.2257
9 2,3,4,7,8-PeCDF	30.78	1.751e4	1.057e4	1.66	NO	12.206	12.206
10 Total Penta-Furans	30.79	4.582e3	2.878e3	1.71	NO	3.2099	3.2099
11 Total Penta-Furans	31.63	4.115e2	3.519e2	1.17	YES	0.29932	0.00000
12 Total Penta-Furans	31.70	7.932e2	8.119e2	1.30	YES	0.57691	0.00000



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
#5 Total Penta-Furans				0.9584	10.003			77.8		0.296	78.7
#6 Total Hexa-Furans				1.0920	10.063			118		0.262	118

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.53	2.555e3	1.465e3	1.74	NO	1.7775	1.7775
2 Total Penta-Furans	28.68	3.489e4	2.190e4	1.59	NO	25.098	25.098
3 Total Penta-Furans	28.74	1.376e3	9.982e2	1.38	NO	1.0497	1.0497
4 Total Penta-Furans	29.29	1.259e4	8.355e3	1.51	NO	9.2615	9.2615
5 Total Penta-Furans	29.54	2.706e3	1.880e2	1.41	NO	2.0169	2.0169
6 1,2,3,7,8-PeCDF	29.72	1.820e4	1.185e4	1.54	NO	12.933	12.933
7 Total Penta-Furans	30.01	9.896e3	6.090e3	1.63	NO	7.0682	7.0682
8 Total Penta-Furans	30.05	4.487e3	2.809e3	1.60	NO	3.2257	3.2257
9 2,3,4,7,8-PeCDF	30.76	1.751e4	1.057e4	1.66	NO	12.206	12.206
10 Total Penta-Furans	30.79	4.582e3	2.678e3	1.71	NO	3.2059	3.2059
11 Total Penta-Furans	31.63	4.115e2	3.515e2	1.17	YES	0.29932	0.00000
12 Total Penta-Furans	31.70	7.932e2	6.119e2	1.30	YES	0.57691	0.00000

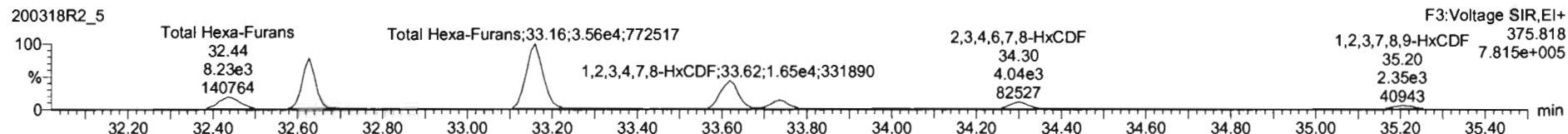
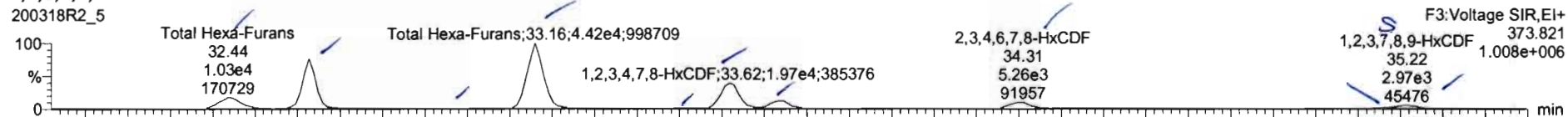


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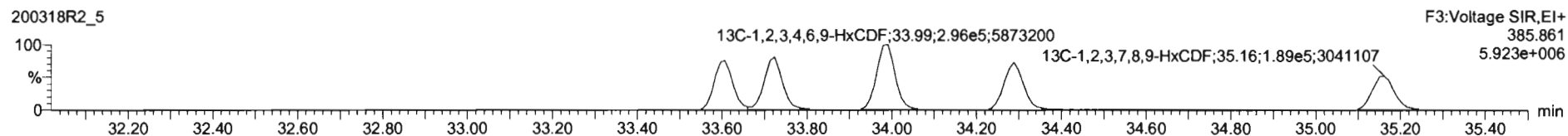
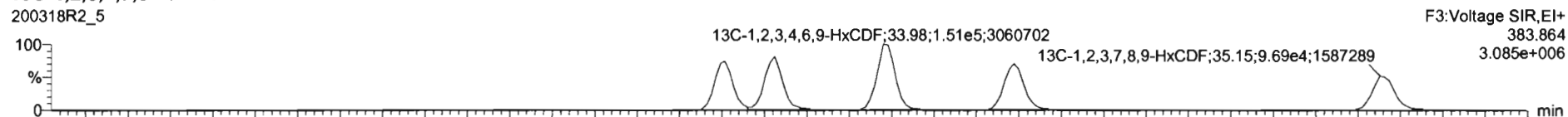
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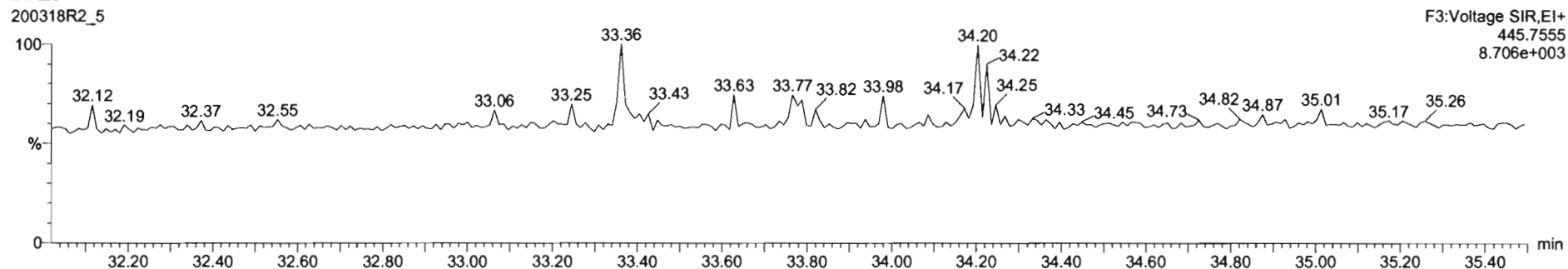
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13C-1,2,3,4,7,8-HxCDF

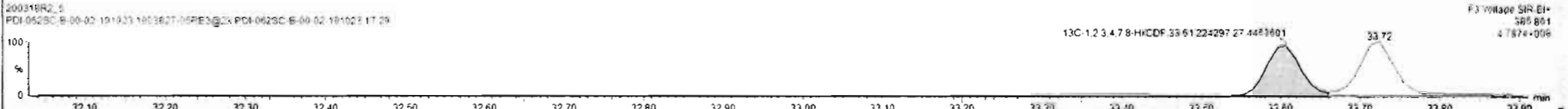
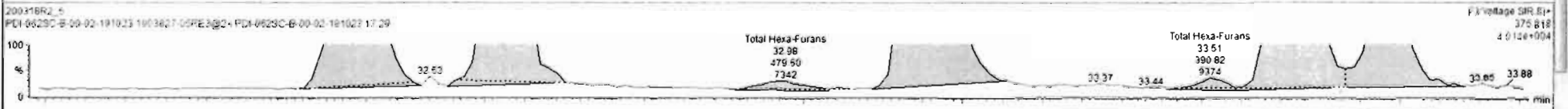
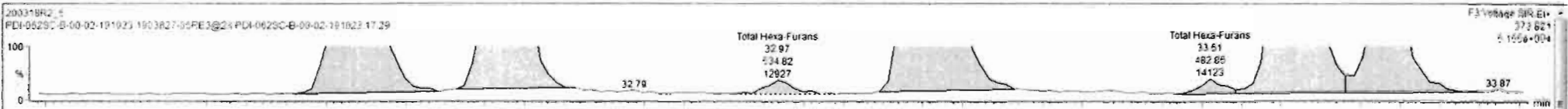


DPE3



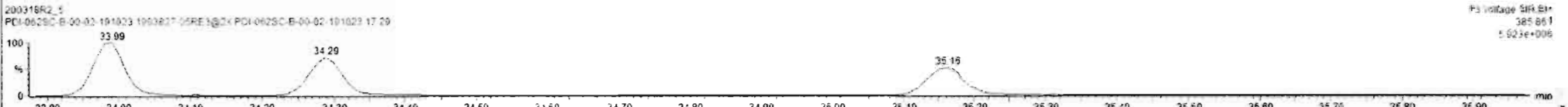
Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.003			77.8		0.286	78.7
46 Total Hexa-Furans				1.0920	10.003			119		0.262	119

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.44	1.029e4	8.444e3	1.22	NO	10.384	10.384
2 Total Hexa-Furans	32.63	2.720e4	2.199e4	1.24	NO	27.272	27.272
3 Total Hexa-Furans	32.97	5.348e2	4.796e2	1.12	NO	0.56241	0.56241
4 Total Hexa-Furans	33.16	4.418e4	3.556e4	1.24	NO	44.195	44.195
5 Total Hexa-Furans	33.51	4.822e2	3.908e2	1.24	NO	0.48438	0.48438
6 1,2,3,4,7,8-HxCDF	33.62	1.974e4	1.662e4	1.19	NO	20.765	20.765
7 1,2,3,6,7,8-HxCDF	33.74	8.530e3	5.163e3	1.26	NO	6.4277	6.4277
8 Total Hexa-Furans	33.99	4.197e2	3.498e2	1.20	NO	0.42659	0.42659
9 2,3,4,6,7,8-HxCDF	34.31	5.265e3	4.041e3	1.30	NO	5.0215	5.0215
10 1,2,3,7,8,9-HxCDF	35.22	2.967e3	2.356e3	1.26	NO	3.6217	3.6217



Name	Resp	RA	nV	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				1.0920	10.003			118		0.262	119
47 Total Hepta-Furans				1.0483	10.003			262		0.554	262

Name	RT	m1 Resp	m2 Resp	RA	nV	EMPC	Conc
1 Total Hexa-Furans	32.44	1.029e4	6.444e3	1.22	NO	10.364	10.364
2 Total Hexa-Furans	32.63	2.720e4	2.199e4	1.24	NO	27.272	27.272
3 Total Hexa-Furans	32.67	5.348e2	4.796e2	1.12	NO	0.56241	0.56241
4 Total Hexa-Furans	33.16	4.416e4	3.556e4	1.24	NO	44.195	44.195
5 Total Hexa-Furans	33.51	4.028e2	3.596e2	1.24	NO	0.48438	0.48438
6 1,2,3,4,7,8-HxCDF	33.52	1.974e4	1.662e4	1.15	NO	20.765	20.765
7 1,2,3,6,7,8-HxCDF	33.74	6.500e3	5.163e3	1.26	NO	6.4277	6.4277
8 2,3,4,6,7,8-HxCDF	34.31	5.265e3	4.041e3	1.20	NO	5.0215	5.0215
9 1,2,3,7,8,9-HxCDF	35.22	2.346e3	2.108e3	1.11	NO	3.0311	3.0311
10 Total Hexa-Furans	35.24	4.159e2	3.402e2	1.22	NO	0.41922	0.00000



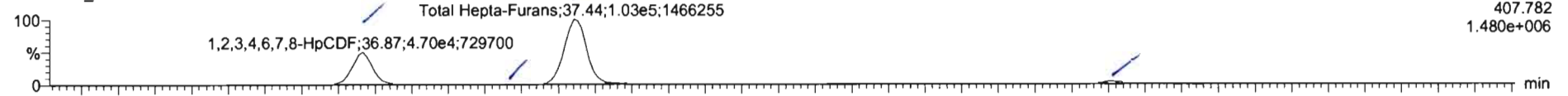
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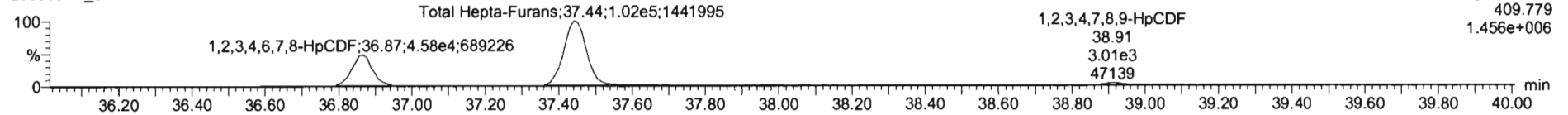
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1,2,3,4,6,7,8-HpCDF

200318R2_5

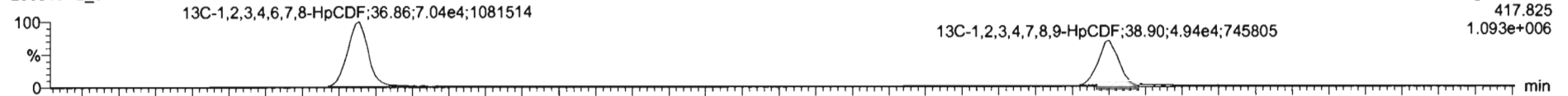


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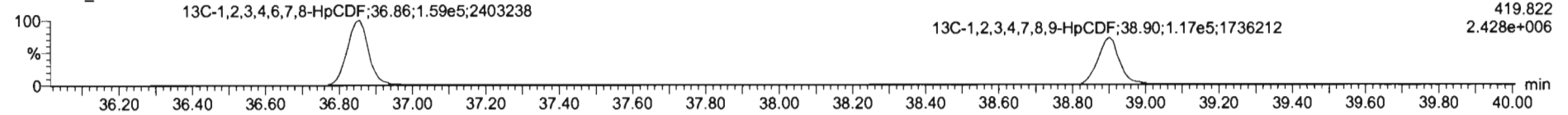


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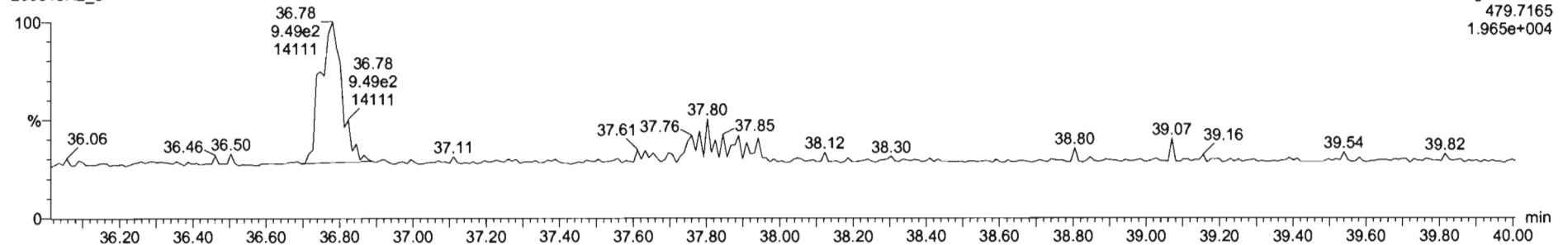


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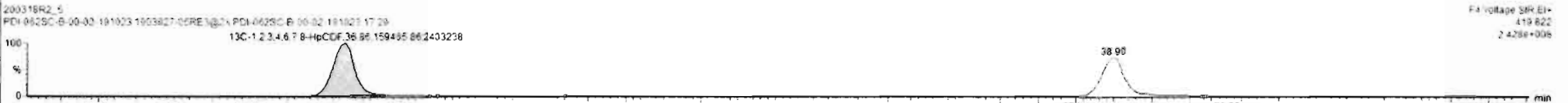
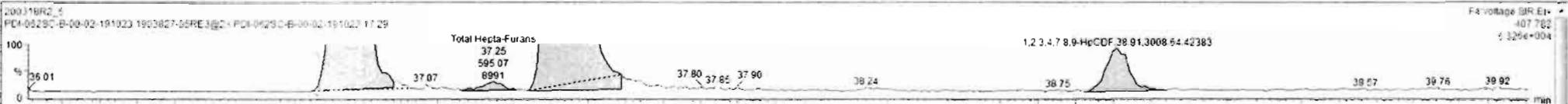
DPE4

200318R2_5



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				1.0920	10.003			118	0.252	119	
47 Total Hepta-Furans				1.0483	10.003			285	0.554	285	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.87	4.670e4	4.605e4	1.01	ND	76.987	76.987
2 Total Hepta-Furans	37.25	5.951e2	5.826e2	1.02	ND	1.1348	1.1348
3 Total Hepta-Furans	37.44	1.049e5	1.035e5	1.01	ND	200.82	200.82
4 1,2,3,4,7,8,9-HpCDF	38.91	3.009e3	3.012e3	1.00	ND	5.9917	5.9917



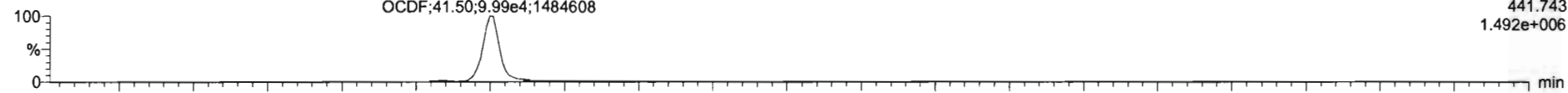
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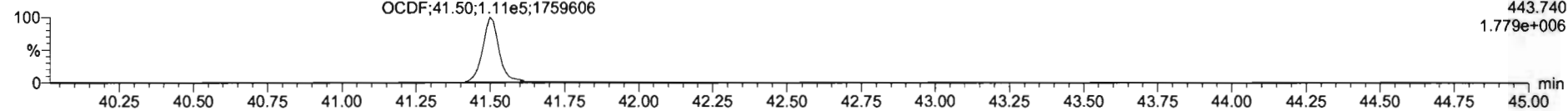
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OCDF

200318R2_5

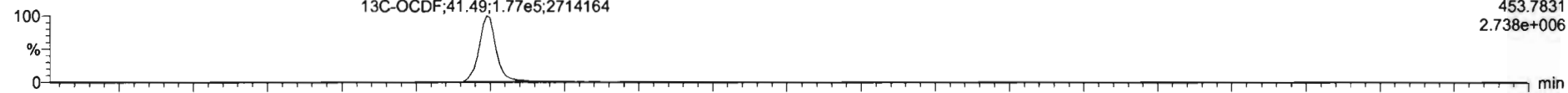


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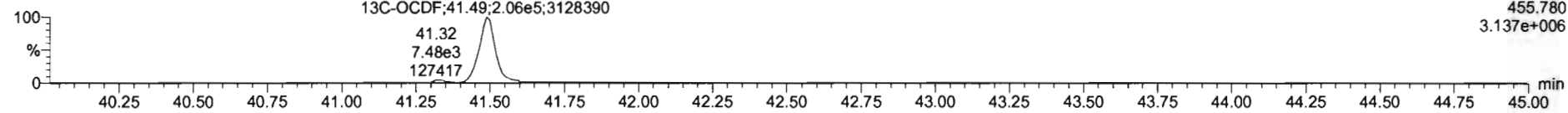


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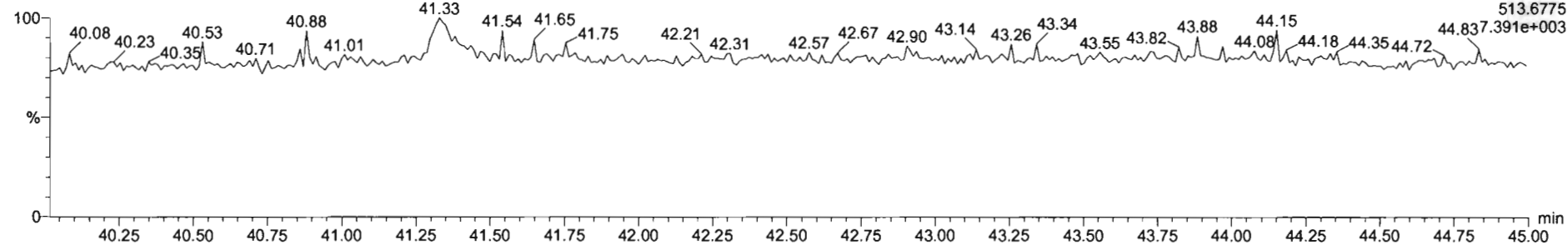


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DPE5

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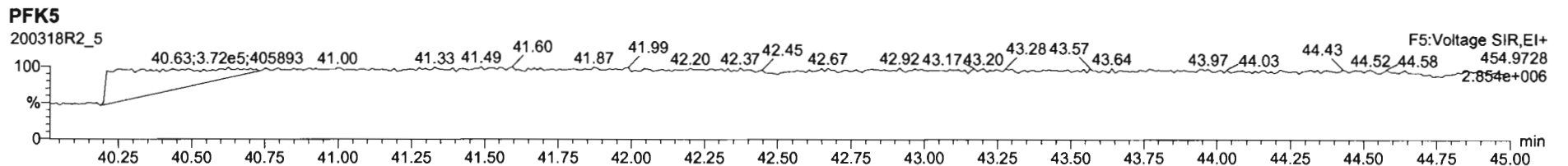
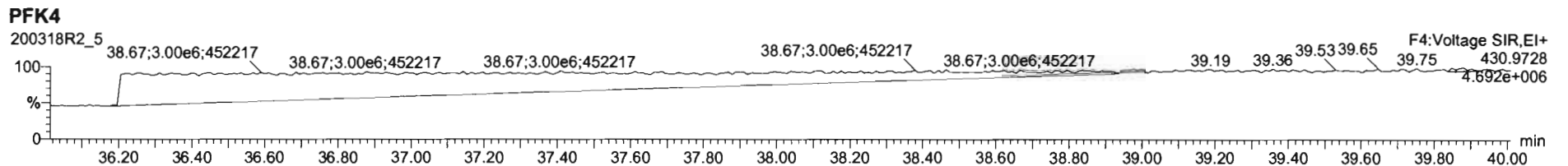
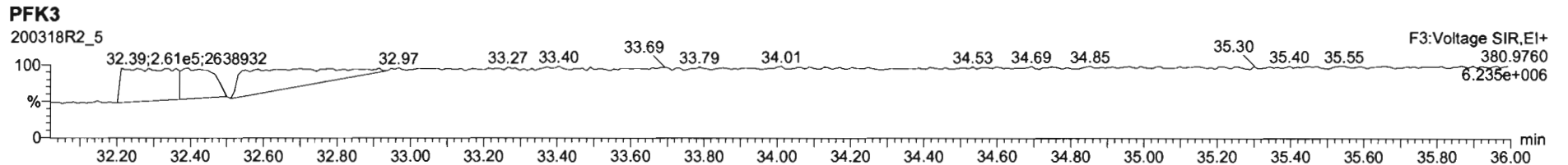
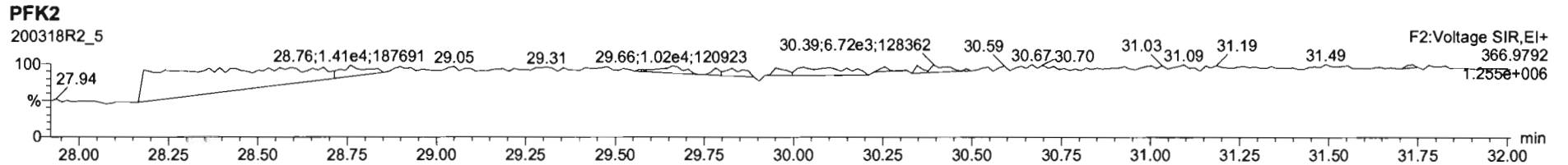
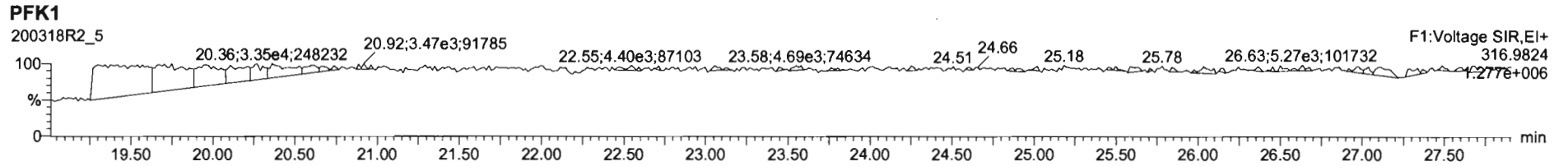


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Dataset: U:\VG12.PRO\Results\200202R2\200202R2-11.qld

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Name: 200202R2_11, Date: 03-Feb-2020, Time: 06:07:13, ID: 1903827-06 PDI-062SC-B-02-04-191023 17.49, Description: PDI-062SC-B-02-04-191023

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1508.224	0.348	YES	0.988	10.074	25.72	25.72	1.00	1.00	NO	0.1869		0.0736	0.1103
2	2 1,2,3,7,8-PeCDD	2214.434	0.660	NO	0.972	10.074	30.66	30.65	1.00	1.00	NO	0.3539		0.0871	0.3539
3	3 1,2,3,4,7,8-HxCDD	2150.278	1.202	NO	1.07	10.074	34.00	33.99	1.00	1.00	NO	0.3828		0.134	0.3828
4	4 1,2,3,6,7,8-HxCDD	20644.433	1.218	NO	0.921	10.074	34.09	34.10	1.00	1.00	NO	3.873		0.146	3.873
5	5 1,2,3,7,8,9-HxCDD	6659.946	1.186	NO	0.918	10.074	34.40	34.38	1.00	1.00	NO	1.322		0.166	1.322
6	6 1,2,3,4,6,7,8-HpCDD	461429.531	1.006	NO	0.923	10.074	37.93	37.93	1.00	1.00	NO	121.2		0.668	121.2
7	7 OCDD	3487179.6...	0.879	NO	0.975	10.074	40.92	40.93	1.00	1.00	NO	1258		0.437	1258
8	8 2,3,7,8-TCDF	2003.917	0.783	NO	0.802	10.074	24.83	24.84	1.00	1.00	NO	0.2304		0.0743	0.2304
9	9 1,2,3,7,8-PeCDF	1978.970	1.446	NO	0.907	10.074	29.38	29.37	1.00	1.00	NO	0.2118		0.0617	0.2118
10	10 2,3,4,7,8-PeCDF	3780.370	1.262	YES	0.952	10.074	30.36	30.35	1.00	1.00	NO	0.4138		0.0588	0.3798
11	11 1,2,3,4,7,8-HxCDF	6787.877	1.166	NO	0.862	10.074	33.12	33.13	1.00	1.00	NO	1.188		0.124	1.188
12	12 1,2,3,6,7,8-HxCDF	14374.322	1.215	NO	0.841	10.074	33.25	33.25	1.00	1.00	NO	2.419		0.120	2.419
13	13 2,3,4,6,7,8-HxCDF	9631.898	1.120	NO	0.898	10.074	33.85	33.84	1.00	1.00	NO	1.738		0.136	1.738
14	14 1,2,3,7,8,9-HxCDF	564.013	0.544	YES	0.858	10.074	34.73	34.73	1.00	1.00	NO	0.1211		0.179	0.07714
15	15 1,2,3,4,6,7,8-HpCDF	182286.500	0.972	NO	0.851	10.074	36.52	36.49	1.00	1.00	NO	51.17		0.213	51.17
16	16 1,2,3,4,7,8,9-HpCDF	2070.187	0.934	NO	0.980	10.074	38.50	38.51	1.00	1.00	NO	0.7077		0.230	0.7077
17	17 OCDF	84395.914	0.872	NO	0.806	10.074	41.10	41.12	1.00	1.00	NO	33.82		0.178	33.82
18	18 13C-2,3,7,8-TCDD	1629856.3...	0.786	NO	1.20	10.074	25.69	25.69	1.03	1.03	NO	171.7	86.5	0.151	
19	19 13C-1,2,3,7,8-PeCDD	1277570.1...	0.642	NO	0.967	10.074	30.43	30.64	1.22	1.22	NO	166.8	84.0	0.165	
20	20 13C-1,2,3,4,7,8-HxCDD	1041429.0...	1.258	NO	0.874	10.074	33.99	33.99	1.01	1.01	NO	151.8	76.5	0.210	
21	21 13C-1,2,3,6,7,8-HxCDD	1148869.7...	1.272	NO	1.05	10.074	34.09	34.09	1.02	1.02	NO	140.0	70.5	0.176	
22	22 13C-1,2,3,7,8,9-HxCDD	1089100.9...	1.248	NO	0.974	10.074	34.39	34.37	1.03	1.03	NO	142.4	71.7	0.189	
23	23 13C-1,2,3,4,6,7,8-HpCDD	819072.938	1.046	NO	0.747	10.074	37.94	37.92	1.13	1.13	NO	139.7	70.4	0.376	
24	24 13C-OCDD	1129853.0...	0.885	NO	0.707	10.074	40.83	40.92	1.22	1.22	NO	203.8	51.3	0.331	
25	25 13C-2,3,7,8-TCDF	2153361.0...	0.775	NO	1.07	10.074	24.87	24.81	0.99	0.99	NO	159.6	80.4	0.228	
26	26 13C-1,2,3,7,8-PeCDF	2044910.4...	1.584	NO	1.00	10.074	29.20	29.35	1.17	1.17	NO	161.1	81.2	0.194	
27	27 13C-2,3,4,7,8-PeCDF	1906223.0...	1.567	NO	0.962	10.074	30.16	30.33	1.20	1.21	NO	156.5	78.8	0.202	
28	28 13C-1,2,3,4,7,8-HxCDF	1315792.9...	0.508	NO	1.05	10.074	33.12	33.12	0.99	0.99	NO	159.8	80.5	0.354	
29	29 13C-1,2,3,6,7,8-HxCDF	1402050.7...	0.515	NO	1.19	10.074	33.22	33.24	0.99	0.99	NO	150.1	75.6	0.312	
30	30 13C-2,3,4,6,7,8-HxCDF	1225145.2...	0.521	NO	1.07	10.074	33.82	33.82	1.01	1.01	NO	146.4	73.7	0.348	
31	31 13C-1,2,3,7,8,9-HxCDF	1077633.0...	0.510	NO	0.922	10.074	34.73	34.73	1.04	1.04	NO	148.9	75.0	0.402	

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#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	831099.359	0.441	NO	0.767	10.074	36.47	36.48	1.09	1.09	NO	138.0	69.5	0.314	
33	33 13C-1,2,3,4,7,8,9-HpCDF	592678.484	0.437	NO	0.552	10.074	38.48	38.50	1.15	1.15	NO	136.7	68.9	0.436	
34	34 13C-OCDF	1230027.9...	0.860	NO	0.789	10.074	41.06	41.10	1.23	1.23	NO	198.5	50.0	0.227	
35	35 37Cl-2,3,7,8-TCDD	691631.938			1.18	10.074	25.72	25.70	1.03	1.03	NO	74.22	93.5	0.0459	
36	36 13C-1,2,3,4-TCDD	1572820.6...	0.804	NO	1.00	10.074	25.08	25.05	1.00	1.00	NO	198.5	100	0.181	
37	37 13C-1,2,3,4-TCDF	2515243.8...	0.787	NO	1.00	10.074	23.42	23.39	1.00	1.00	NO	198.5	100	0.243	
38	38 13C-1,2,3,4,6,9-HxCDF	1558084.5...	0.508	NO	1.00	10.074	33.52	33.52	1.00	1.00	NO	198.5	100	0.371	
39	39 Total Tetra-Dioxins				0.988	10.074	24.62		0.00		NO	0.6861		0.0736	1.487
40	40 Total Penta-Dioxins				0.972	10.074	29.96		0.00		NO	5.831		0.0871	6.814
41	41 Total Hexa-Dioxins				0.921	10.074	33.63		0.00		NO	73.54		0.155	73.72
42	42 Total Hepta-Dioxins				0.923	10.074	37.64		0.00		NO	322.4		0.668	322.4
43	43 Total Tetra-Furans				0.802	10.074	23.61		0.00		NO	11.28		0.0743	11.76
44	44 1st Func. Penta-Furans				0.907	10.074	27.09		0.00		NO	14.39		0.0385	14.39
45	45 Total Penta-Furans				0.907	10.074	29.27		0.00		NO	10.90		0.0617	11.28
46	46 Total Hexa-Furans				0.898	10.074	33.56		0.00		NO	42.92		0.132	43.23
47	47 Total Hepta-Furans				0.851	10.074	37.83		0.00		NO	104.9		0.235	104.9

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-11.qld
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Name: 200202R2_11, Date: 03-Feb-2020, Time: 06:07:13, ID: 1903827-06 PDI-062SC-B-02-04-191023 17.49, Description: PDI-062SC-B-02-04-191023

Tetra-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	39 Total Tetra-Dioxins	YES	26.03	296.795	717120.750	0.000	bb	0.0000	0.06
2	1 2,3,7,8-TCDD	YES	25.72	389.315	717120.750	0.000	bb	0.0000	0.11
3	39 Total Tetra-Dioxins	NO	25.44	329.163	717120.750	0.918	MM	0.0922	0.09
4	39 Total Tetra-Dioxins	NO	24.64	274.493	717120.750	0.778	MM	0.0781	0.08
5	39 Total Tetra-Dioxins	NO	24.03	784.768	717120.750	2.260	bb	0.2270	0.23
6	39 Total Tetra-Dioxins	YES	23.80	646.068	717120.750	0.000	MM	0.0000	0.18
7	39 Total Tetra-Dioxins	NO	23.53	372.525	717120.750	1.074	MM	0.1079	0.11
8	39 Total Tetra-Dioxins	YES	22.65	430.572	717120.750	0.000	MM	0.0000	0.09
9	39 Total Tetra-Dioxins	NO	22.17	639.530	717120.750	1.800	MM	0.1809	0.18
10	39 Total Tetra-Dioxins	NO	21.74	922.267	717120.750	0.000	MM	0.0000	0.25
11	39 Total Tetra-Dioxins	YES	24.21	212.565	717120.750	0.000	MM	0.0000	0.06
12	39 Total Tetra-Dioxins	NO	21.69	190.737	717120.750	0.000	MM	0.0000	0.05

Penta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	40 Total Penta-Dioxins	NO	29.57	1141.264	499446.281	4.911	bd	0.5014	0.50
2	40 Total Penta-Dioxins	NO	29.40	2720.957	499446.281	10.875	bb	1.1103	1.11
3	40 Total Penta-Dioxins	NO	28.91	1298.953	499446.281	5.425	bb	0.5539	0.55
4	40 Total Penta-Dioxins	NO	28.44	7311.043	499446.281	30.856	MM	3.1504	3.15
5	40 Total Penta-Dioxins	NO	31.03	239.603	499446.281	1.028	MM	0.1049	0.11
6	40 Total Penta-Dioxins	YES	30.73	190.508	499446.281	0.000	MM	0.0000	0.08
7	2 1,2,3,7,8-PeCDD	NO	30.65	880.862	499446.281	3.467	MM	0.3539	0.35
8	40 Total Penta-Dioxins	NO	30.22	133.651	499446.281	0.551	MM	0.0563	0.06
9	40 Total Penta-Dioxins	YES	29.92	611.943	499446.281	0.000	MM	0.0000	0.20
10	40 Total Penta-Dioxins	NO	29.87	911.725	499446.281	0.000	bd	0.0000	0.37
11	40 Total Penta-Dioxins	YES	29.66	1022.705	499446.281	0.000	MM	0.0000	0.33

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Hexa-Dioxins

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	NO	34.38	3614.014	604715.250	12.230	db	1.3222	1.32
2	41 Total Hexa-Dioxins	YES	34.29	617.693	609378.417	0.000	MM	0.0000	0.17
3	4 1,2,3,6,7,8-HxCDD	NO	34.10	11337.315	643257.625	35.939	db	3.8731	3.87
4	3 1,2,3,4,7,8-HxCDD	NO	33.99	1173.750	580162.375	4.129	MM	0.3828	0.38
5	41 Total Hexa-Dioxins	NO	33.43	2489.759	609378.417	8.048	MM	0.8673	0.87
6	41 Total Hexa-Dioxins	NO	33.32	70868.414	609378.417	234.888	MM	25.3139	25.31
7	41 Total Hexa-Dioxins	NO	33.06	6459.236	609378.417	20.969	bb	2.2598	2.26
8	41 Total Hexa-Dioxins	NO	32.52	110599.234	609378.417	366.743	MM	39.5238	39.52

Hepta-Dioxins

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	NO	37.93	231405.172	418675.469	1126.712	bb	121.1703	121.17
2	42 Total Hepta-Dioxins	NO	36.88	383827.531	418675.469	1870.854	bb	201.1978	201.20

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Tetra-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	43 Total Tetra-Furans	NO	21.72	4813.491	939896.938	10.769	MM	1.3330	1.33
2	43 Total Tetra-Furans	YES	21.33	811.777	939896.938	0.000	MM	0.0000	0.22
3	43 Total Tetra-Furans	NO	21.26	850.908	939896.938	1.823	bd	0.2257	0.23
4	43 Total Tetra-Furans	NO	20.78	13042.250	939896.938	28.532	MM	3.5317	3.53
5	43 Total Tetra-Furans	NO	20.18	2147.303	939896.938	4.944	MM	0.6119	0.61
6	43 Total Tetra-Furans	NO	19.64	809.043	939896.938	1.758	bb	0.2176	0.22
7	43 Total Tetra-Furans	NO	26.83	1502.873	939896.938	3.332	bb	0.4125	0.41
8	43 Total Tetra-Furans	NO	25.21	576.283	939896.938	1.181	bb	0.1461	0.15
9	8 2,3,7,8-TCDF	NO	24.84	879.770	939896.938	1.861	db	0.2304	0.23
10	43 Total Tetra-Furans	NO	24.72	703.019	939896.938	1.538	dd	0.1904	0.19
11	43 Total Tetra-Furans	YES	24.61	466.894	939896.938	0.000	bd	0.0000	0.10
12	43 Total Tetra-Furans	NO	24.40	351.197	939896.938	0.798	bb	0.0988	0.10
13	43 Total Tetra-Furans	NO	24.19	435.709	939896.938	0.954	bb	0.1181	0.12
14	43 Total Tetra-Furans	NO	23.91	1290.441	939896.938	2.760	bb	0.3416	0.34
15	43 Total Tetra-Furans	NO	23.40	899.954	939896.938	1.819	MM	0.2251	0.23
16	43 Total Tetra-Furans	NO	23.30	6346.410	939896.938	14.180	MM	1.7552	1.75
17	43 Total Tetra-Furans	YES	23.12	619.108	939896.938	0.000	MM	0.0000	0.16
18	43 Total Tetra-Furans	NO	22.56	569.991	939896.938	1.147	db	0.1420	0.14
19	43 Total Tetra-Furans	NO	22.20	6403.960	939896.938	13.760	bd	1.7032	1.70

Penta-Furans function 1

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	44 1st Func. Penta-Furans	NO	26.80	79696.953	1208526.563	131.487	bb	14.3851	14.39

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Penta-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	45 Total Penta-Furans	NO	30.22	765.609	1208526.563	1.211	MM	0.1325	0.13
2	45 Total Penta-Furans	NO	29.63	4037.884	1208526.563	6.713	bb	0.7345	0.73
3	9 1,2,3,7,8-PeCDF	NO	29.37	1169.993	1253392.500	1.936	bb	0.2118	0.21
4	45 Total Penta-Furans	NO	29.19	716.422	1208526.563	1.262	bb	0.1381	0.14
5	45 Total Penta-Furans	NO	28.97	11771.049	1208526.563	20.004	bb	2.1885	2.19
6	45 Total Penta-Furans	NO	28.77	400.889	1208526.563	0.664	bb	0.0727	0.07
7	45 Total Penta-Furans	NO	28.39	28817.859	1208526.563	47.659	db	5.2140	5.21
8	45 Total Penta-Furans	NO	28.26	2303.326	1208526.563	4.060	bd	0.4442	0.44
9	10 2,3,4,7,8-PeCDF	YES	30.35	2108.953	1163660.625	0.000	MM	0.0000	0.38
10	45 Total Penta-Furans	NO	30.38	9640.184	1208526.563	16.130	MM	1.7647	1.76

Hexa-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	46 Total Hexa-Furans	NO	31.96	15600.153	425911.399	46.908	MM	5.1843	5.18
2	14 1,2,3,7,8,9-HxCDF	YES	34.73	198.807	364032.031	0.000	MM	0.0000	0.08
3	13 2,3,4,6,7,8-HxCDF	NO	33.84	5089.645	419410.719	15.724	bb	1.7378	1.74
4	12 1,2,3,6,7,8-HxCDF	NO	33.25	7885.594	476854.125	20.505	db	2.4192	2.42
5	11 1,2,3,4,7,8-HxCDF	NO	33.13	3654.689	443348.719	10.318	MM	1.1878	1.19
6	46 Total Hexa-Furans	NO	33.04	361.177	425911.399	0.997	MM	0.1102	0.11
7	46 Total Hexa-Furans	NO	32.68	58971.992	425911.399	173.910	MM	19.2207	19.22
8	46 Total Hexa-Furans	NO	32.51	582.759	425911.399	1.628	MM	0.1800	0.18
9	46 Total Hexa-Furans	NO	32.13	39773.707	425911.399	116.536	MM	12.8796	12.88
10	46 Total Hexa-Furans	YES	34.78	839.782	425911.399	0.000	MM	0.0000	0.23

Hepta-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	NO	38.51	999.889	180292.828	6.986	MM	0.7077	0.71
2	47 Total Hepta-Furans	NO	37.10	80424.297	217352.281	452.550	MM	52.7855	52.79
3	47 Total Hepta-Furans	NO	36.89	348.334	217352.281	2.080	MM	0.2426	0.24
4	15 1,2,3,4,6,7,8-HpCDF	NO	36.49	89868.109	254411.734	438.664	MM	51.1659	51.17

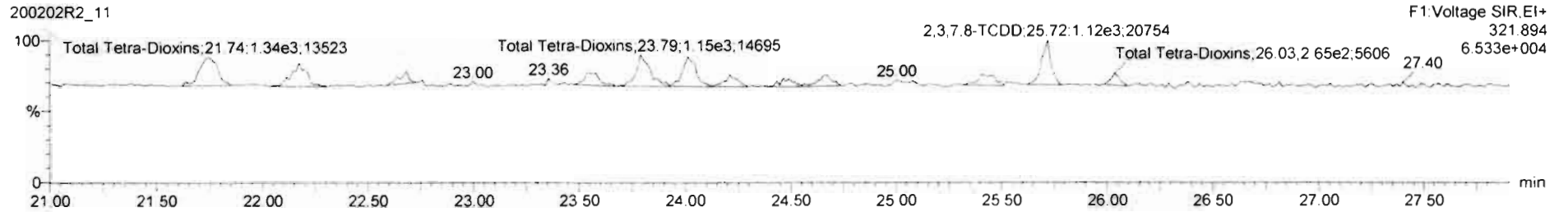
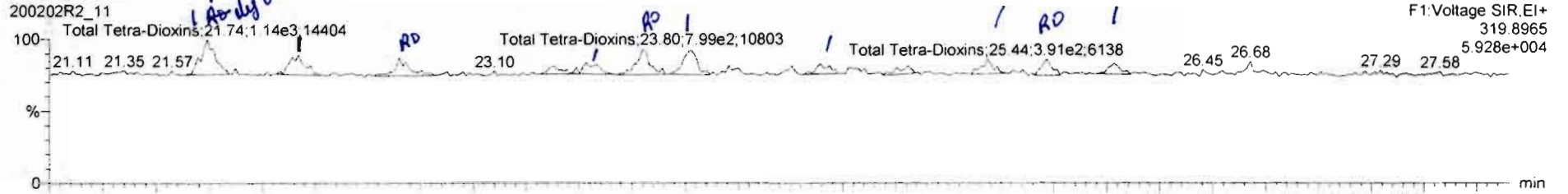
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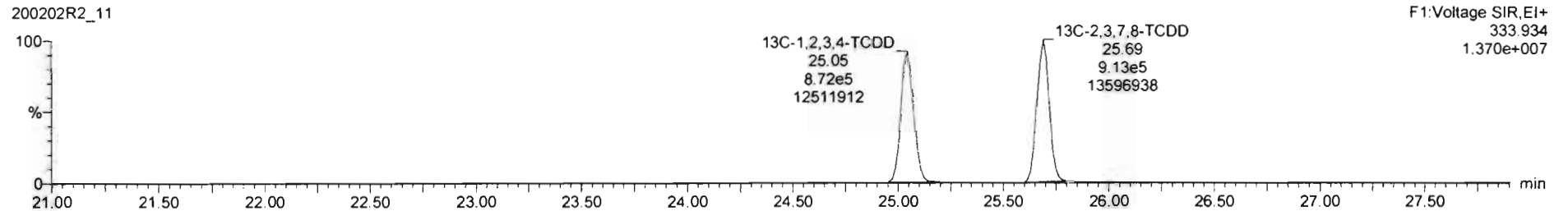
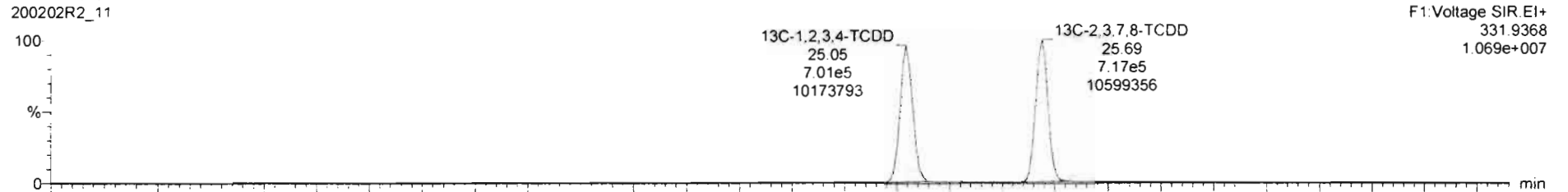
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2,3,7,8-TCDD

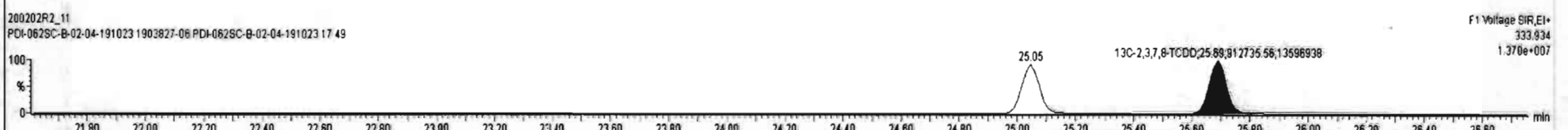
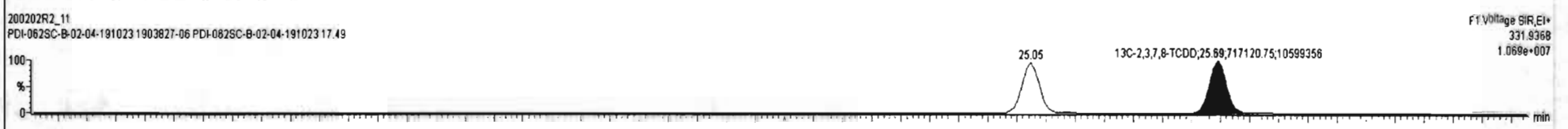
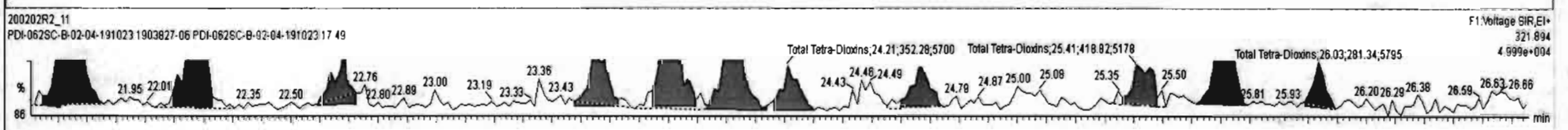
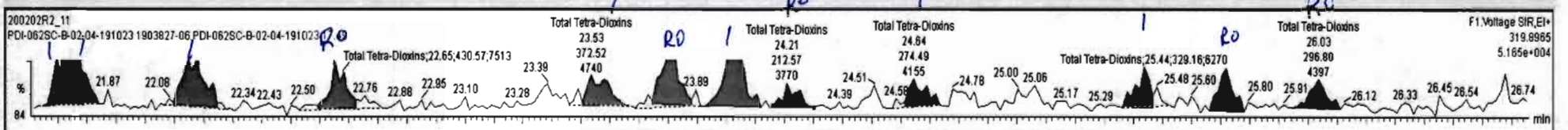


13C-2,3,7,8-TCDD



#	Name	Resp	RA	n/y	RPF	wt/rd	Pred RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9891	10.074	24.62		0.000		NO	0.8861		0.0736	1.467
40	Total Penta-Dioxins				0.9723	10.074	25.96		0.000		NO	5.884		0.0671	6.595
41	Total Hexa-Dioxins				0.9211	10.074	33.63		0.000		NO	72.98		0.155	73.18
42	Total Hepta-Dioxins				0.9231	10.074	37.84		0.000		NO	322.4		0.688	322.4
43	Total Tetra-Furans				0.9020	10.074	23.61		0.000		NO	11.24		0.0743	11.74
44	1st Func. Penta-Furans				0.9074	10.074	27.09		0.000		NO	14.39		0.0385	14.39
45	Total Penta-Furans				0.9074	10.074	29.27		0.000		NO	11.20		0.0617	11.32
46	Total Hexa-Furans				0.8982	10.074	33.56		0.000		NO	41.93		0.132	42.63
47	Total Hepta-Furans				0.8644	10.074	37.83		0.000		NO	103.4		0.226	103.4

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	21.89	1.907e2	2.375e2	0.770	0.80	NO	0.052792	0.00000
2	39 Total Tetra-Dioxins	24.62	21.74	9.223e2	1.085e3	0.770	0.85	NO	0.24743	0.00000
3	39 Total Tetra-Dioxins	24.62	22.17	6.395e2	8.274e2	0.770	0.77	NO	0.18085	0.18085
4	39 Total Tetra-Dioxins	24.62	22.85	4.306e2	3.903e2	0.770	1.10	YES	0.085169	0.00000
5	39 Total Tetra-Dioxins	24.62	23.53	3.725e2	5.026e2	0.770	0.74	NO	0.10789	0.10789
6	39 Total Tetra-Dioxins	24.62	23.80	6.461e2	1.007e3	0.770	0.84	YES	0.18309	0.00000
7	39 Total Tetra-Dioxins	24.62	24.03	7.849e2	1.057e3	0.770	0.74	NO	0.22703	0.22703
8	39 Total Tetra-Dioxins	24.62	24.21	2.126e2	3.523e2	0.770	0.80	YES	0.060240	0.00000
9	39 Total Tetra-Dioxins	24.62	24.64	2.745e2	3.593e2	0.770	0.76	NO	0.078142	0.078142
10	39 Total Tetra-Dioxins	24.62	25.44	3.292e2	4.188e2	0.770	0.79	NO	0.082214	0.082214
11	1 2,3,7,8-TCDD	25.72	25.72	3.893e2	1.119e3	0.770	0.35	YES	0.11033	0.00000
12	39 Total Tetra-Dioxins	24.62	26.03	2.968e2	2.813e2	0.770	1.05	YES	0.061392	0.00000



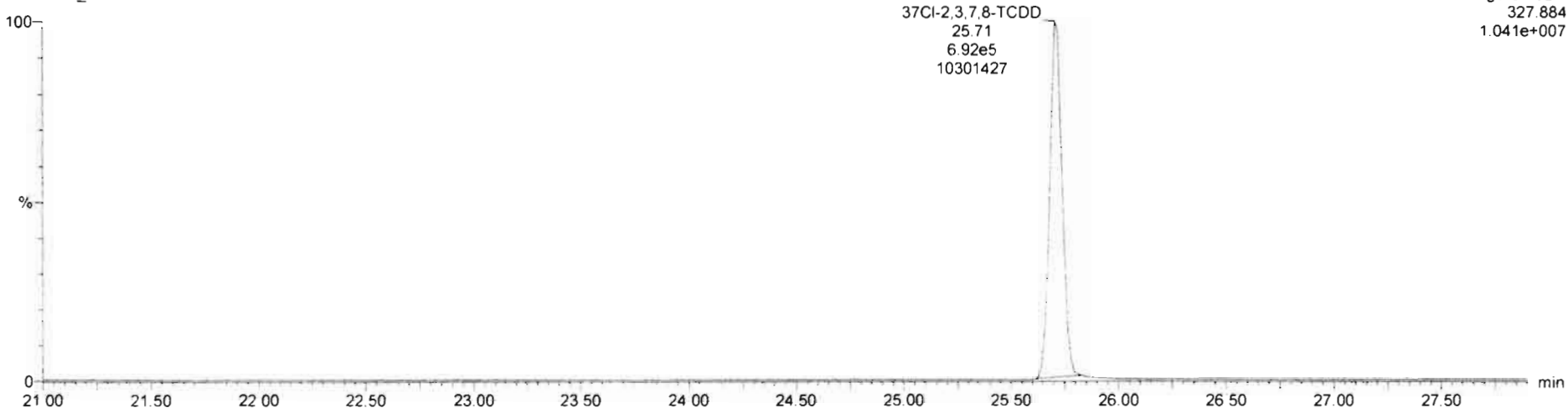
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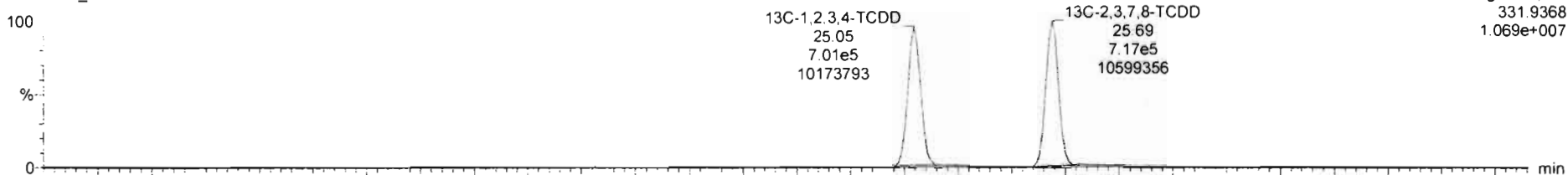
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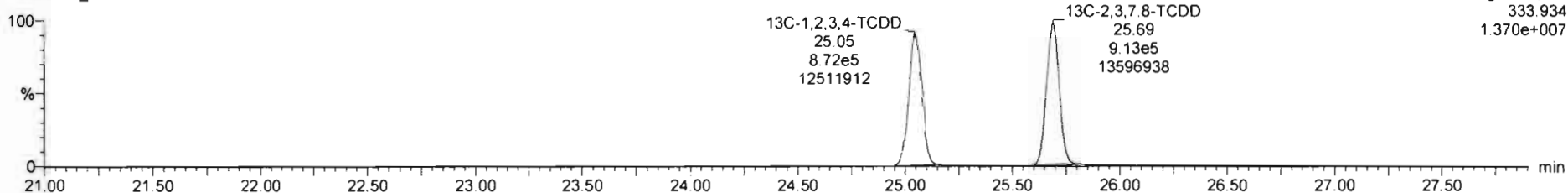


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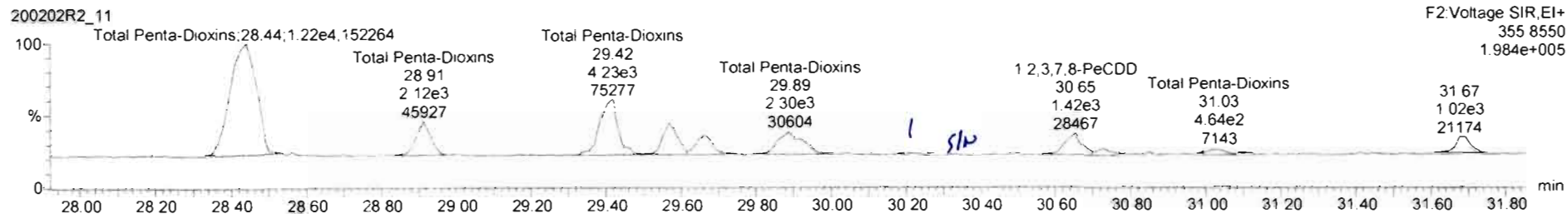
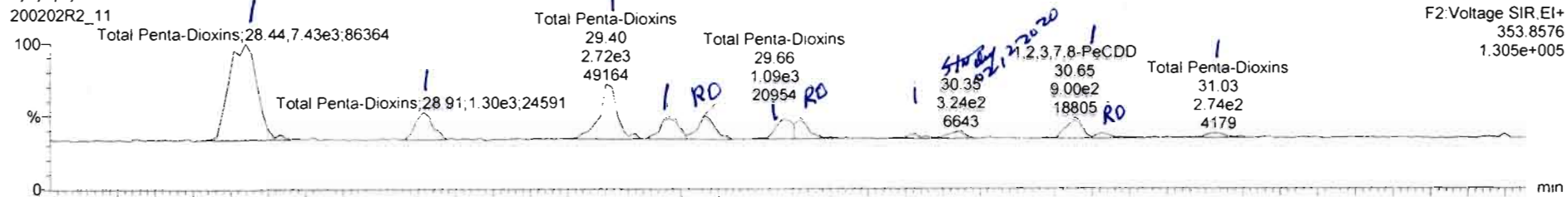


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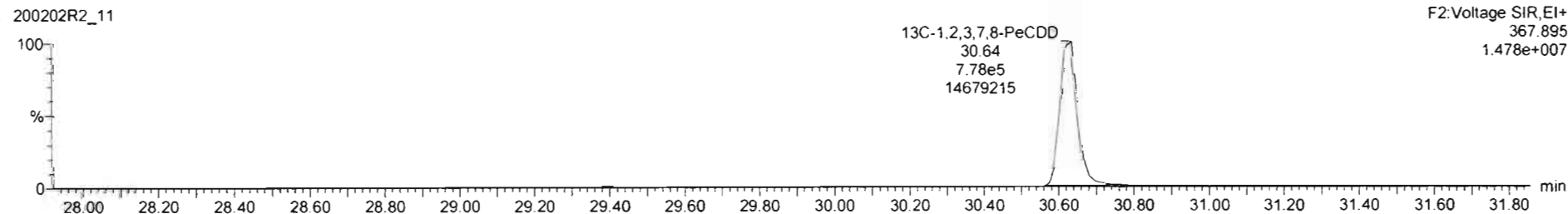
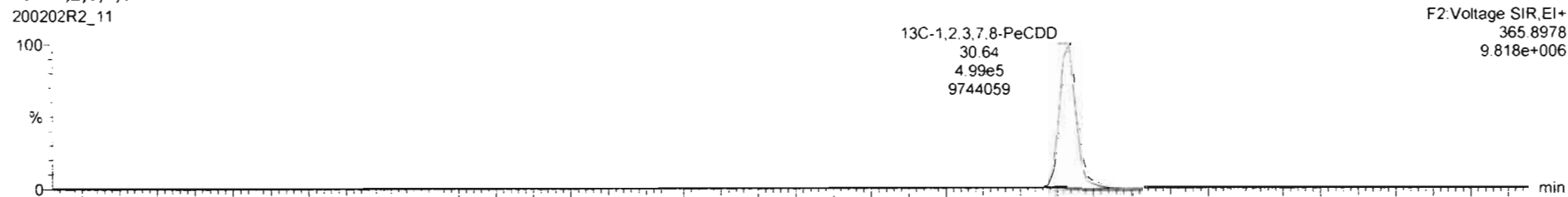
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Name: 200202R2_11, Date: 03-Feb-2020, Time: 06:07:13, ID: 1903827-06 PDI-062SC-B-02-04-191023 17.49, Description: PDI-062SC-B-02-04-191023

1,2,3,7,8-PeCDD

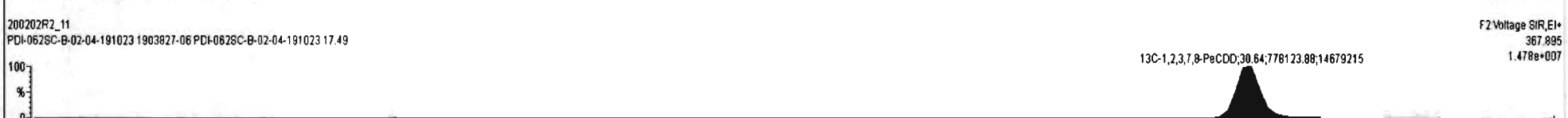
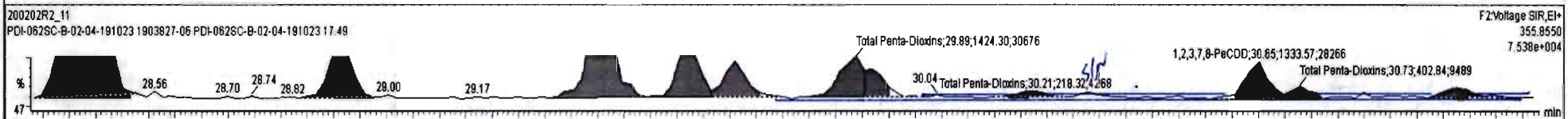
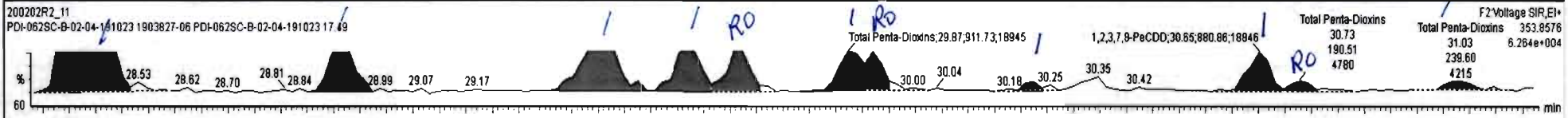


13C-1,2,3,7,8-PeCDD



#	Name	Resp	RA	n/y	R/R	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9681	10.074	24.62		0.000		NO	0.6661		0.0736	1.487
40	Total Penta-Dioxins				0.9723	10.074	29.56		0.000		NO	5.631		0.0671	6.814
41	Total Hexa-Dioxins				0.9211	10.074	33.63		0.000		NO	72.99		0.155	73.18
42	Total Hepta-Dioxins				0.9231	10.074	37.64		0.000		NO	322.4		0.668	322.4
43	Total Tetra-Furans				0.8020	10.074	23.61		0.000		NO	11.24		0.0743	11.74
44	1st Func. Penta-Furans				0.9074	10.074	27.09		0.000		NO	14.39		0.0385	14.39
45	Total Penta-Furans				0.9074	10.074	29.27		0.000		NO	11.20		0.0617	11.32
46	Total Hexa-Furans				0.8982	10.074	33.56		0.000		NO	41.93		0.132	42.63
47	Total Hepta-Furans				0.8441	10.074	37.63		0.000		NO	109.4		0.236	109.4

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	29.96	28.44	7.311e3	1.240e4	0.630	0.59	NO	3.1504	3.1504
2	40 Total Penta-Dioxins	29.96	28.91	1.298e3	2.167e3	0.630	0.60	NO	0.55392	0.55392
3	40 Total Penta-Dioxins	29.96	28.40	2.721e3	4.226e3	0.630	0.64	NO	1.1103	1.1103
4	40 Total Penta-Dioxins	29.96	29.57	1.141e3	1.986e3	0.630	0.57	NO	0.50144	0.50144
5	40 Total Penta-Dioxins	29.96	29.66	1.023e3	1.273e3	0.630	0.80	YES	0.33164	0.00000
6	40 Total Penta-Dioxins	29.96	29.67	9.117e2	1.424e3	0.630	0.64	NO	0.37337	0.00000
7	40 Total Penta-Dioxins	29.96	29.92	6.119e2	7.619e2	0.630	0.80	YES	0.19950	0.00000
8	40 Total Penta-Dioxins	29.96	30.22	1.337e2	2.163e2	0.630	0.61	NO	0.056257	0.056257
9	2 1,2,3,7,8-PeCDD	30.66	30.65	8.809e2	1.334e3	0.630	0.86	NO	0.35394	0.35394
10	40 Total Penta-Dioxins	29.96	30.73	1.905e2	4.029e2	0.630	0.47	YES	0.078782	0.00000
11	40 Total Penta-Dioxins	29.96	31.03	2.396e2	4.169e2	0.630	0.57	NO	0.10493	0.10493

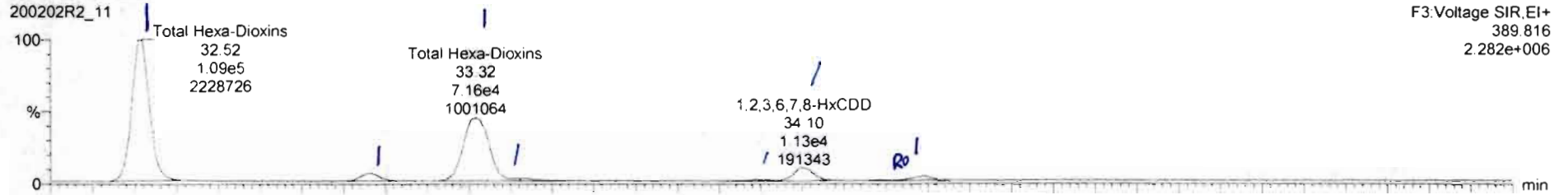


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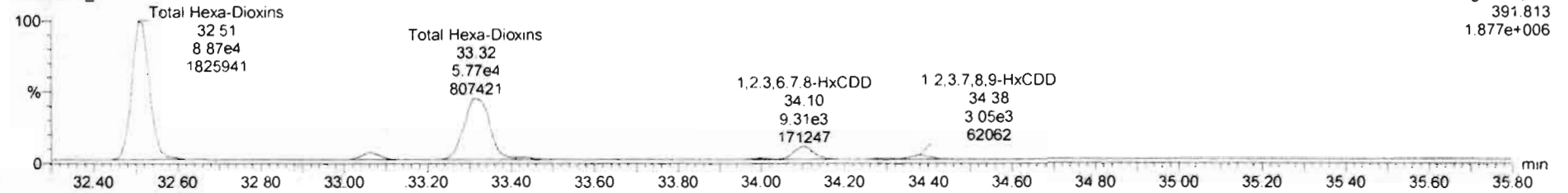
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Name: 200202R2_11, Date: 03-Feb-2020, Time: 06:07:13, ID: 1903827-06 PDI-062SC-B-02-04-191023 17.49, Description: PDI-062SC-B-02-04-191023

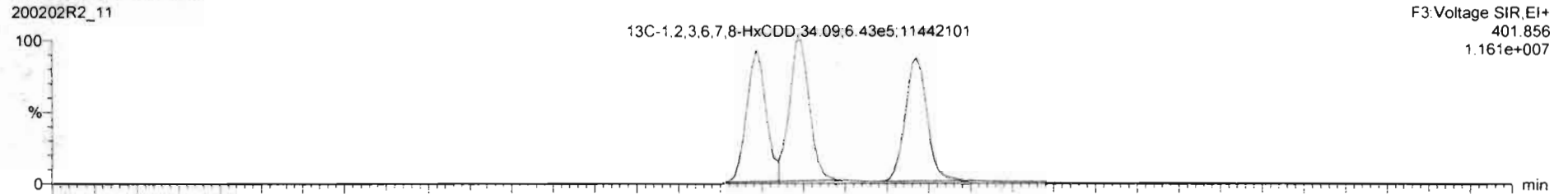
1,2,3,4,7,8-HxCDD



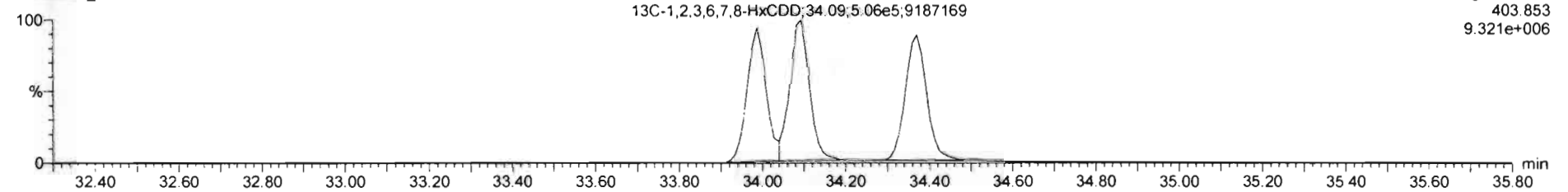
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13C-1,2,3,4,7,8-HxCDD

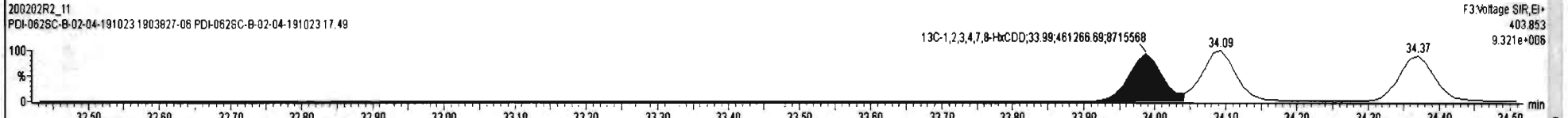
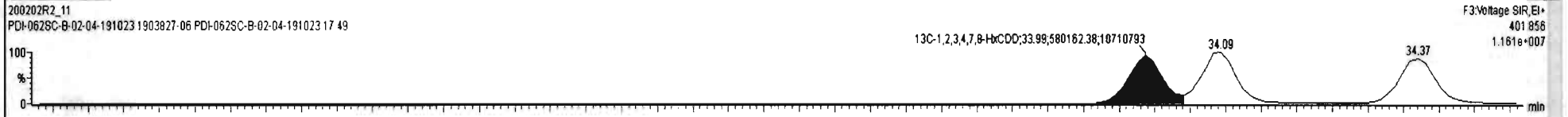
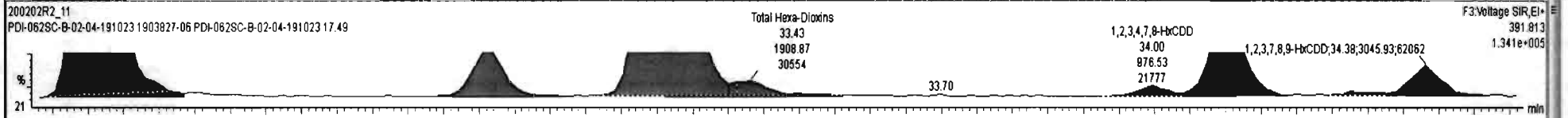
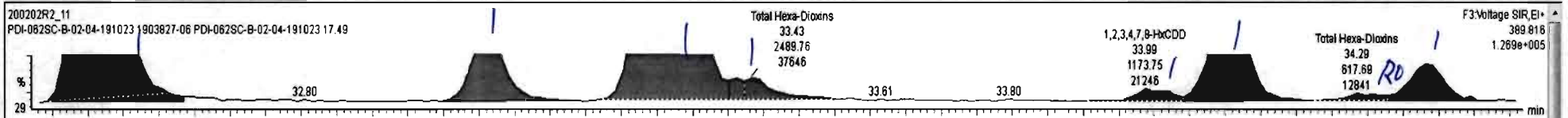


200202R2_11



#	Name	Resp	RA	n/y	R/R	w/wcd	Pred RT	RT	Pred R...	R/R	R/R Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9861	10.074	24.62		0.000		NO	0.8861		0.0736	1.487
40	Total Penta-Dioxins				0.9723	10.074	29.96		0.000		NO	5.831		0.0671	6.814
41	Total Hexa-Dioxins				0.9211	10.074	33.63		0.000		NO	73.54		0.155	73.72
42	Total Hepta-Dioxins				0.9231	10.074	37.54		0.000		NO	322.4		0.688	322.4
43	Total Tetra-Furans				0.8020	10.074	23.61		0.000		NO	11.24		0.0743	11.74
44	1st Func. Penta-Furans				0.9074	10.074	27.09		0.000		NO	14.39		0.0385	14.39
45	Total Penta-Furans				0.9074	10.074	29.27		0.000		NO	11.20		0.0617	11.32
46	Total Hexa-Furans				0.8982	10.074	33.56		0.000		NO	41.93		0.132	42.63
47	Total Hepta-Furans				0.8844	10.074	37.81		0.000		NO	109.4		0.235	109.4

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	32.52	1.106e5	8.985e4	1.240	1.23	NO	39.524	39.524
2	41 Total Hexa-Dioxins	33.63	33.06	6.459e3	5.002e3	1.240	1.29	NO	2.2598	2.2598
3	41 Total Hexa-Dioxins	33.63	33.32	7.087e4	5.751e4	1.240	1.23	NO	25.314	25.314
4	41 Total Hexa-Dioxins	33.63	33.43	2.490e3	1.909e3	1.240	1.30	NO	0.86730	0.86730
5	3 1,2,3,4,7,8-HxCDD	34.00	33.99	1.174e3	9.765e2	1.240	1.20	NO	0.38283	0.38283
6	4 1,2,3,7,8-HxCDD	34.09	34.10	1.134e4	9.307e3	1.240	1.22	NO	3.8731	3.8731
7	41 Total Hexa-Dioxins	33.63	34.29	6.177e2	3.961e2	1.240	1.56	YES	0.17497	0.00000
8	5 1,2,3,7,8-HxCDD	34.40	34.38	3.614e3	3.046e3	1.240	1.19	NO	1.3222	1.3222



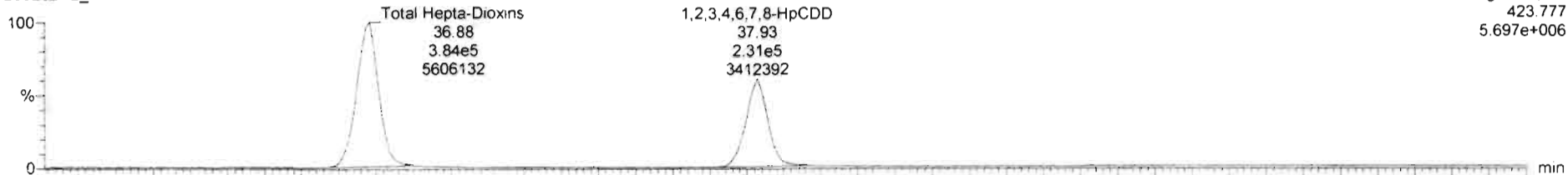
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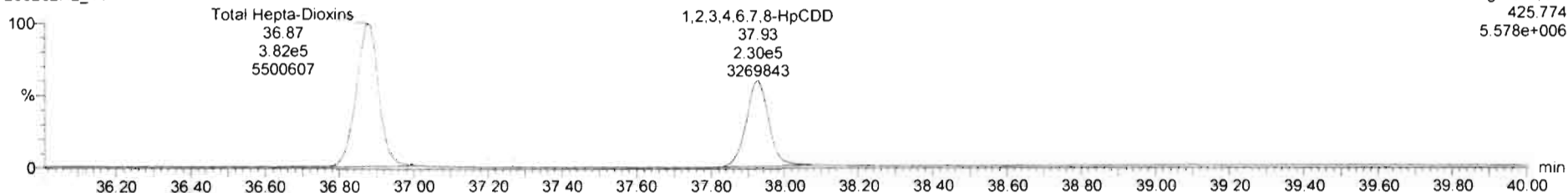
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1,2,3,4,6,7,8-HpCDD

200202R2_11

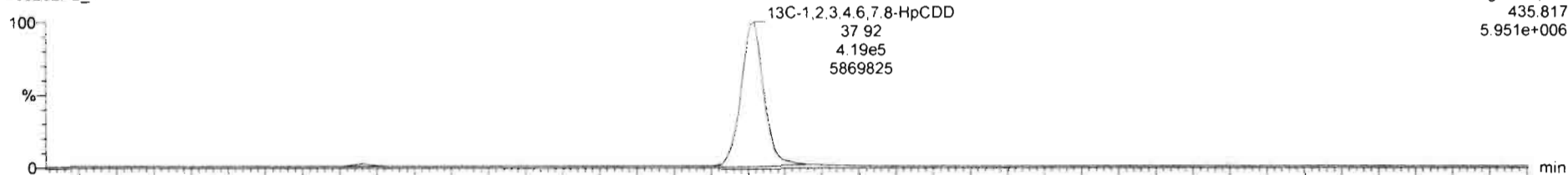


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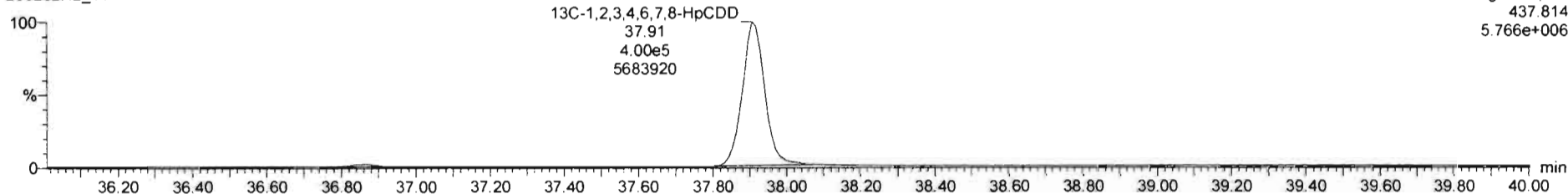


13C-1,2,3,4,6,7,8-HpCDD

200202R2_11



200202R2_11

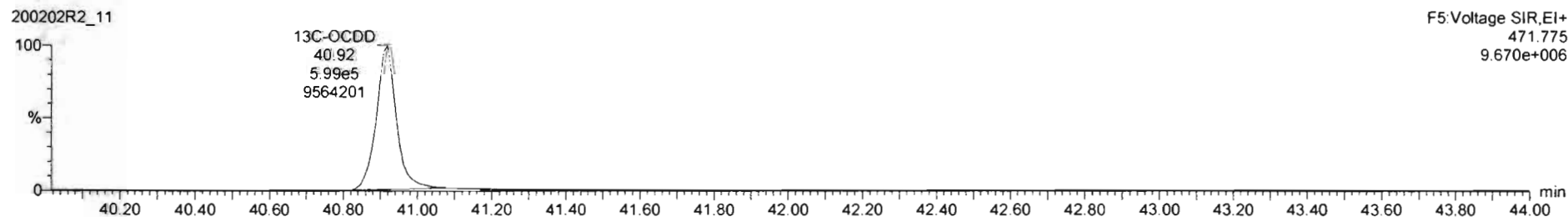
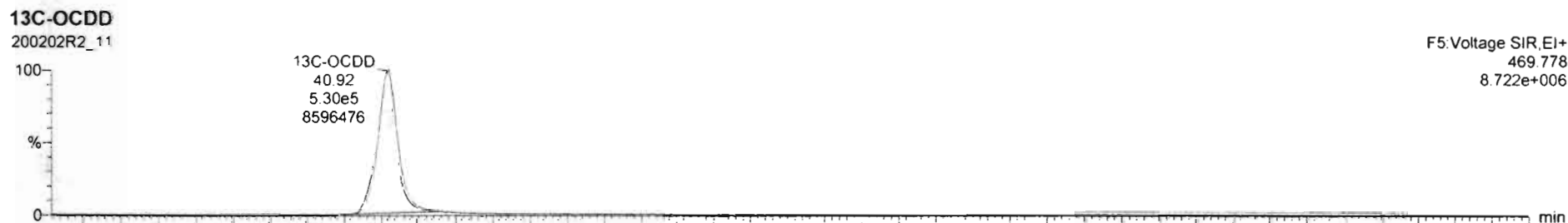
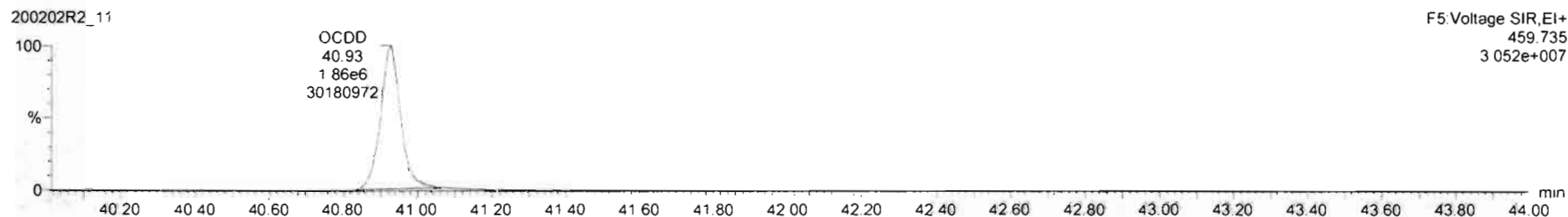
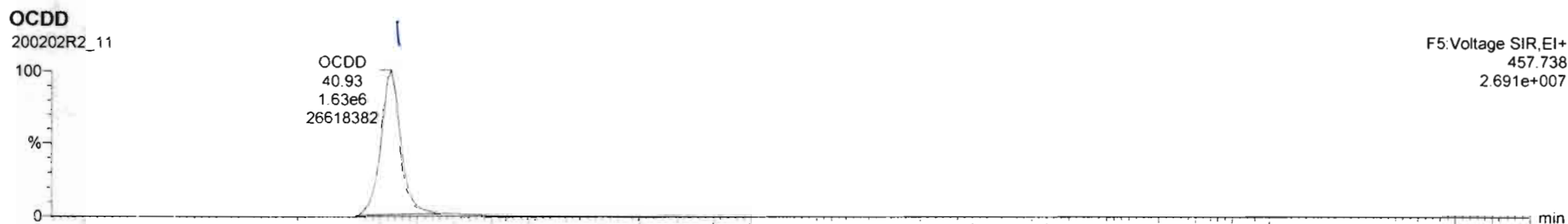


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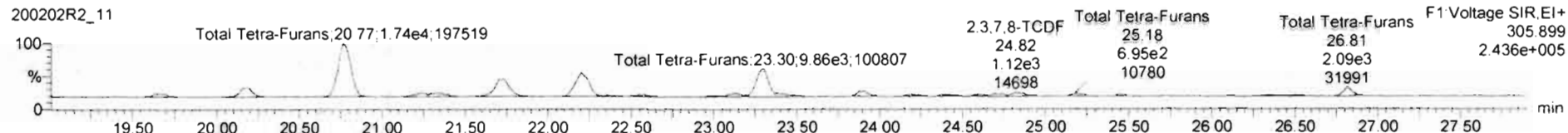
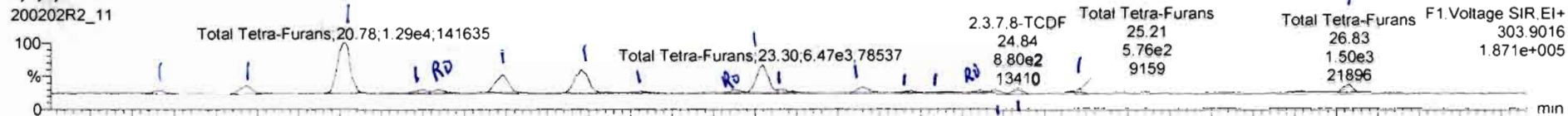


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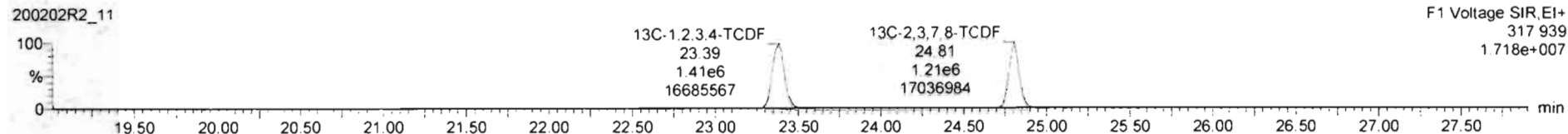
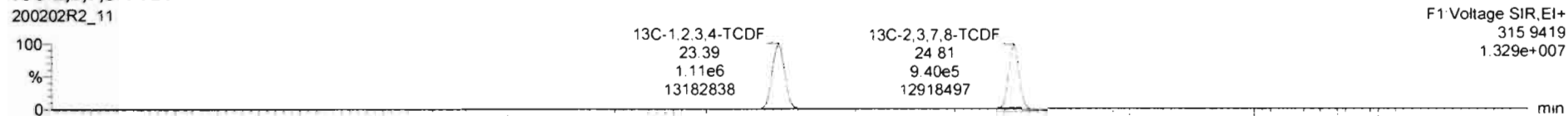
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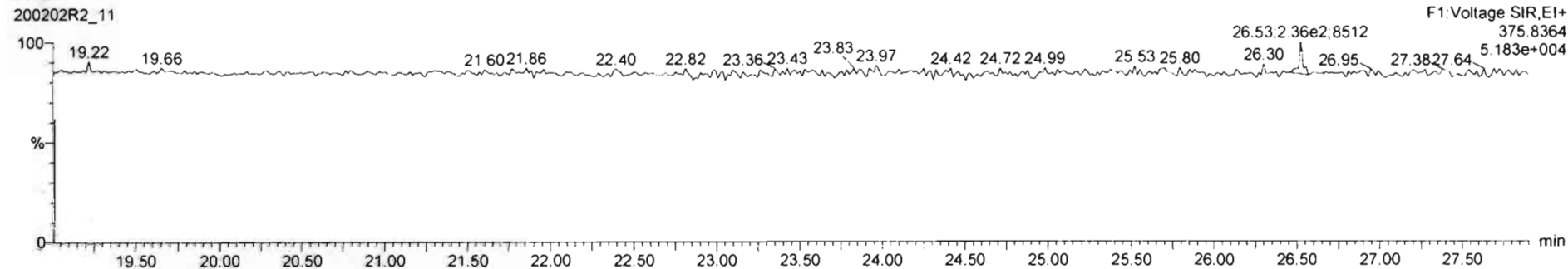
2,3,7,8-TCDF



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

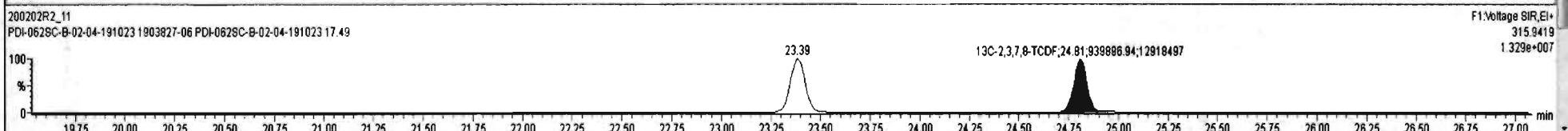
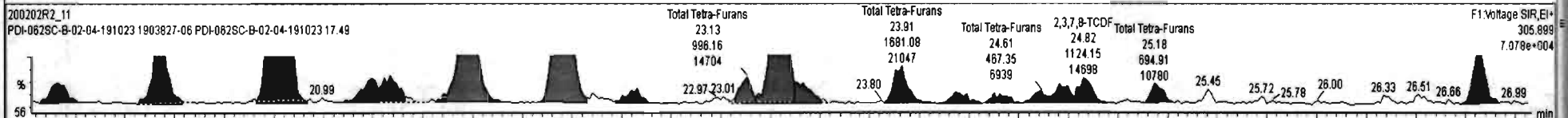
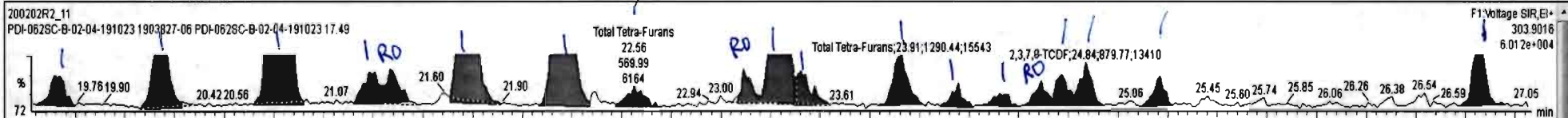


DPE1



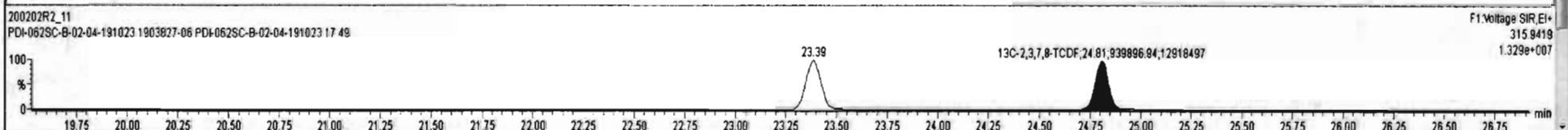
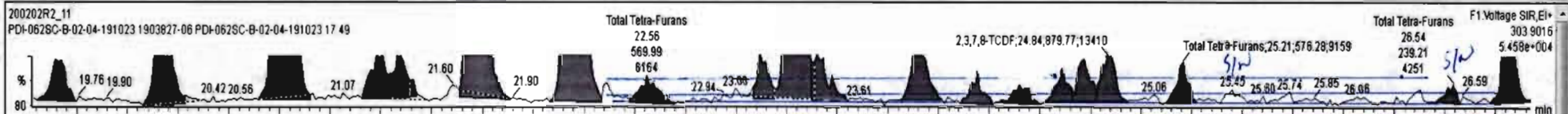
#	Name	Resp	RA	n/y	RPF	wtVal	Pred RT	RT	Pred R	RPT	RRT Fail	Conc.	%Rec	IL	EMPC
39	Total Tetra-Dioxins				0.9981	10.074	24.52		0.000		NO	0.6861		0.0736	1.487
40	Total Penta-Dioxins				0.9723	10.074	29.96		0.000		NO	5.831		0.0671	6.814
41	Total Hexa-Dioxins				0.9211	10.074	33.83		0.000		NO	73.54		0.155	73.72
42	Total Hepta-Dioxins				0.9231	10.074	37.54		0.000		NO	322.4		0.668	322.4
43	Total Tetra-Furans				0.8020	10.074	23.81		0.000		NO	11.26		0.0743	11.76
44	1st Func. Penta-Furans				0.9074	10.074	27.09		0.000		NO	14.39		0.0395	14.39
45	Total Penta-Furans				0.9074	10.074	29.27		0.000		NO	11.20		0.0617	11.32
46	Total Hexa-Furans				0.8982	10.074	33.56		0.000		NO	41.93		0.132	42.63
47	Total Hepta-Furans				0.9644	10.074	37.83		0.000		NO	109.4		0.236	109.4

#	Name	Pred RT	RT	w1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	19.84	8.090e2	1.084e3	0.770	0.75	NO	0.21763	0.21763
2	43 Total Tetra-Furans	23.61	20.18	2.147e3	3.175e3	0.770	0.88	NO	0.61193	0.61193
3	43 Total Tetra-Furans	23.61	20.78	1.304e4	1.768e4	0.770	0.74	NO	3.5317	3.5317
4	43 Total Tetra-Furans	23.61	21.26	8.509e2	1.112e3	0.770	0.76	NO	0.22570	0.22570
5	43 Total Tetra-Furans	23.61	21.33	8.118e2	1.386e3	0.770	0.59	YES	0.21453	0.00000
6	43 Total Tetra-Furans	23.61	21.72	4.813e3	6.781e3	0.770	0.71	NO	1.3330	1.3330
7	43 Total Tetra-Furans	23.61	22.20	6.404e3	8.411e3	0.770	0.76	NO	1.7032	1.7032
8	43 Total Tetra-Furans	23.61	22.56	5.700e2	6.652e2	0.770	0.86	NO	0.14200	0.14200
9	43 Total Tetra-Furans	23.61	23.12	6.191e2	9.962e2	0.770	0.82	YES	0.16361	0.00000
10	43 Total Tetra-Furans	23.61	23.30	6.346e3	8.921e3	0.770	0.71	NO	1.7552	1.7552
11	43 Total Tetra-Furans	23.61	23.40	9.000e2	1.059e3	0.770	0.85	NO	0.22512	0.22512
12	43 Total Tetra-Furans	23.61	23.91	1.290e3	1.681e3	0.770	0.77	NO	0.34162	0.34162
13	43 Total Tetra-Furans	23.61	24.19	4.357e2	5.919e2	0.770	0.74	NO	0.11814	0.11814
14	43 Total Tetra-Furans	23.61	24.40	3.512e2	5.085e2	0.770	0.89	NO	0.098833	0.098833
15	43 Total Tetra-Furans	23.61	24.61	4.669e2	4.673e2	0.770	1.00	YES	0.095100	0.00000
16	43 Total Tetra-Furans	23.61	24.72	7.030e2	9.534e2	0.770	0.74	NO	0.19043	0.19043
17	8 2,3,7-TCDF	24.83	24.84	8.798e2	1.124e3	0.770	0.78	NO	0.23038	0.23038
18	43 Total Tetra-Furans	23.61	25.21	5.763e2	6.949e2	0.770	0.83	NO	0.14614	0.14614
19	43 Total Tetra-Furans	23.61	26.83	1.503e3	2.085e3	0.770	0.72	NO	0.41248	0.41248



#	Name	Resp	RA	n/y	RPF	wt/Act	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9891	10.074	24.82		0.000		NO	0.6861		0.0736	1.487
40	Total Penta-Dioxins				0.9723	10.074	29.96		0.000		NO	5.831		0.0671	6.814
41	Total Hexa-Dioxins				0.9211	10.074	33.63		0.000		NO	73.54		0.155	73.72
42	Total Hepta-Dioxins				0.9231	10.074	37.64		0.000		NO	322.4		0.688	322.4
43	Total Tetra-Furans				0.8020	10.074	23.81		0.000		NO	11.32		0.0743	11.78
44	1st Func. Penta-Furans				0.9074	10.074	27.08		0.000		NO	14.39		0.0395	14.39
45	Total Penta-Furans				0.9074	10.074	29.27		0.000		NO	11.20		0.0617	11.32
46	Total Hexa-Furans				0.8962	10.074	33.56		0.000		NO	41.93		0.132	42.83
47	Total Hepta-Furans				0.9044	10.074	37.63		0.000		NO	179.41		0.7961	189.41

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	19.84	8.090e2	1.064e3	0.770	0.75	NO	0.21763	0.21763
2	43 Total Tetra-Furans	23.61	20.18	2.147e3	3.175e3	0.770	0.68	NO	0.61193	0.61193
3	43 Total Tetra-Furans	23.61	20.78	1.304e4	1.768e4	0.770	0.74	NO	3.5317	3.5317
4	43 Total Tetra-Furans	23.61	21.26	8.509e2	1.112e3	0.770	0.76	NO	0.22570	0.22570
5	43 Total Tetra-Furans	23.61	21.33	7.855e2	1.201e3	0.770	0.84	YES	0.20230	0.00000
6	43 Total Tetra-Furans	23.61	21.72	4.813e3	6.781e3	0.770	0.71	NO	1.3330	1.3330
7	43 Total Tetra-Furans	23.61	22.20	6.404e3	8.411e3	0.770	0.76	NO	1.7032	1.7032
8	43 Total Tetra-Furans	23.61	22.56	5.700e2	6.652e2	0.770	0.86	NO	0.14200	0.14200
9	43 Total Tetra-Furans	23.61	23.12	6.191e2	9.962e2	0.770	0.62	YES	0.16361	0.00000
10	43 Total Tetra-Furans	23.61	23.30	6.346e3	6.921e3	0.770	0.71	NO	1.7552	1.7552
11	43 Total Tetra-Furans	23.61	23.40	7.541e2	1.064e3	0.770	0.71	NO	0.20899	0.20899
12	43 Total Tetra-Furans	23.61	23.91	1.290e3	1.681e3	0.770	0.77	NO	0.34162	0.34162
13	43 Total Tetra-Furans	23.61	24.19	4.357e2	5.919e2	0.770	0.74	NO	0.11914	0.11914
14	43 Total Tetra-Furans	23.61	24.40	3.512e2	5.085e2	0.770	0.69	NO	0.098833	0.098833
15	43 Total Tetra-Furans	23.61	24.61	4.669e2	4.873e2	0.770	1.00	YES	0.085100	0.00000
16	43 Total Tetra-Furans	23.61	24.72	7.030e2	9.534e2	0.770	0.74	NO	0.19043	0.19043
17	8 2,3,7,8-TCDF	24.83	24.84	8.798e2	1.124e3	0.770	0.78	NO	0.23038	0.23038
18	43 Total Tetra-Furans	23.61	25.21	5.763e2	6.949e2	0.770	0.83	NO	0.14614	0.14614
19	43 Total Tetra-Furans	23.61	26.54	2.392e2	3.211e2	0.770	0.75	NO	0.064411	0.064411
20	43 Total Tetra-Furans	23.61	26.83	1.503e3	2.085e3	0.770	0.72	NO	0.41248	0.41248



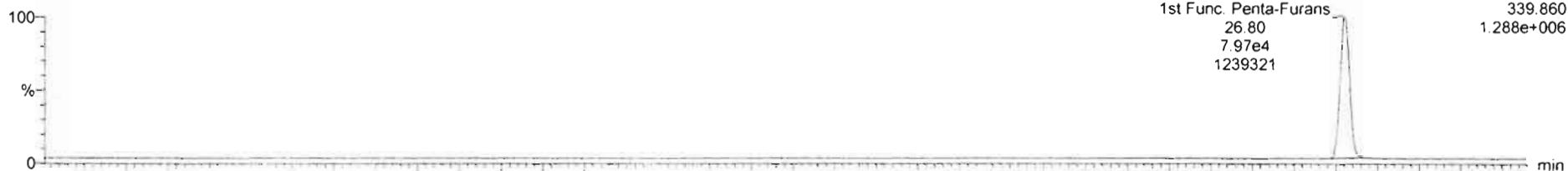
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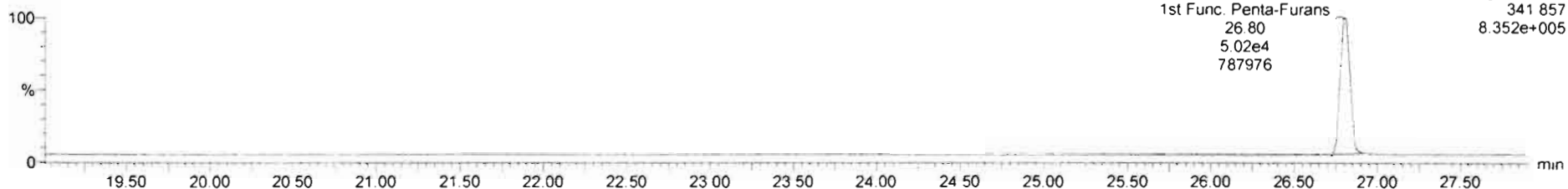
Name: 200202R2_11, Date: 03-Feb-2020, Time: 06:07:13, ID: 1903827-06 PDI-062SC-B-02-04-191023 17.49, Description: PDI-062SC-B-02-04-191023

1st Func. Penta-Furans

200202R2_11

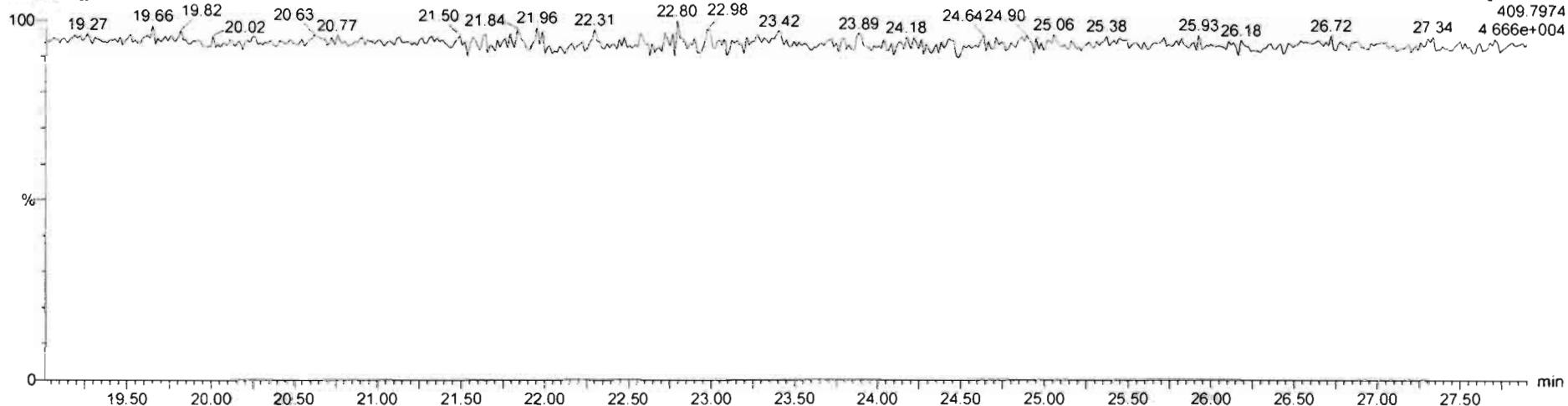


200202R2_11



DPE6

200202R2_11



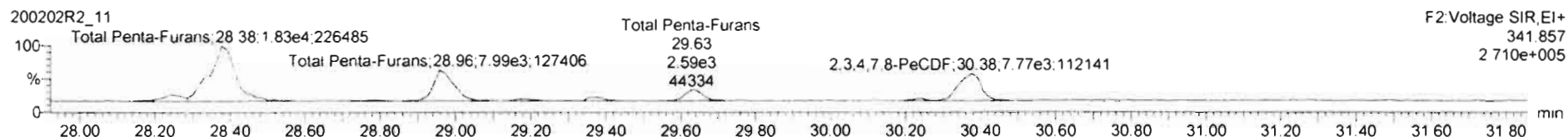
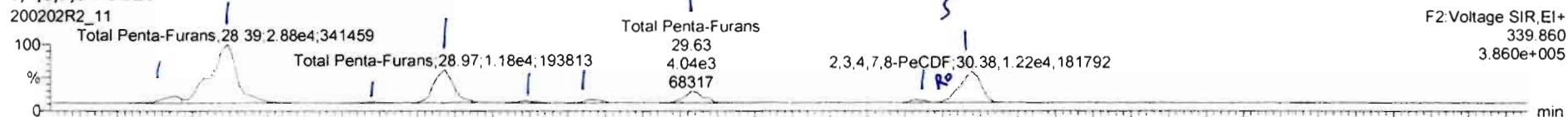
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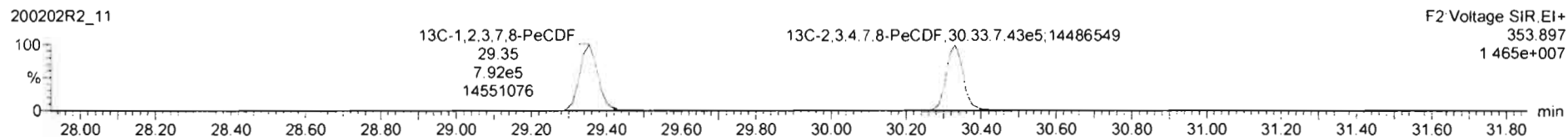
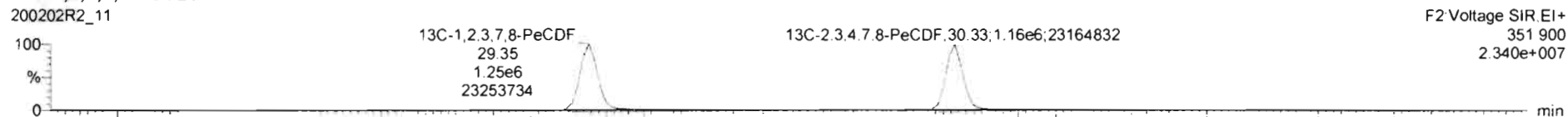
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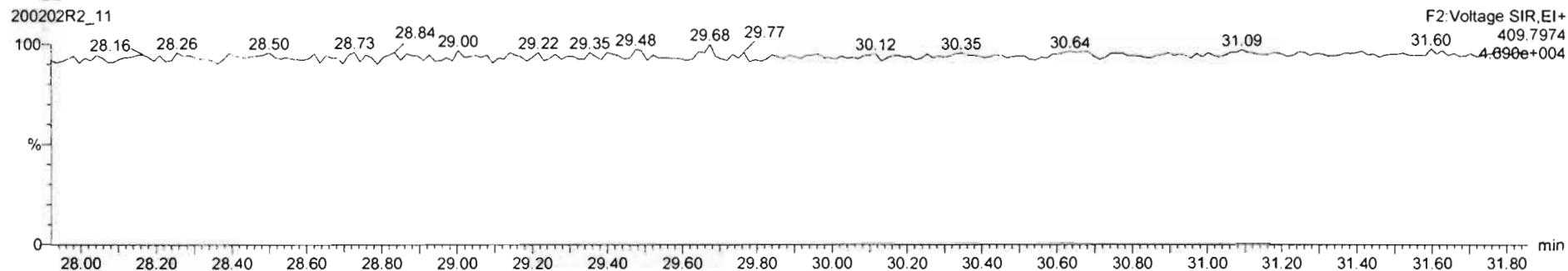
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13C-1,2,3,7,8-PeCDF

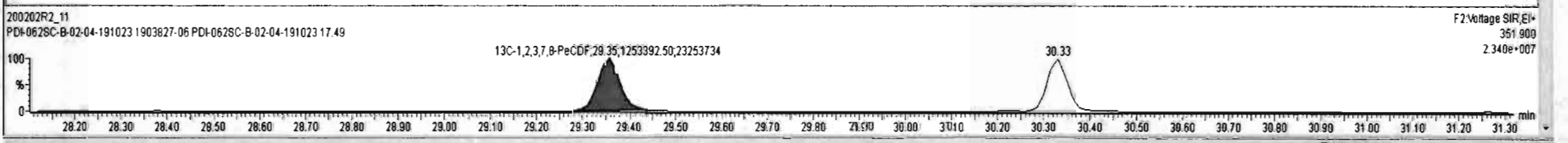
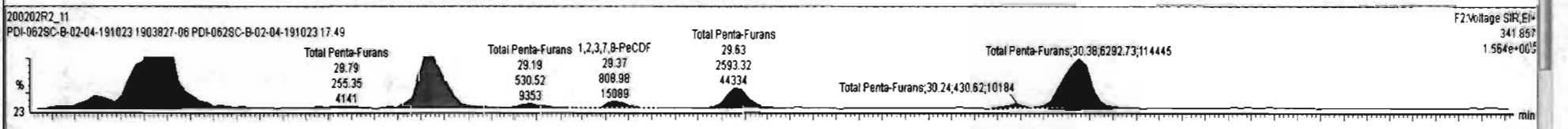
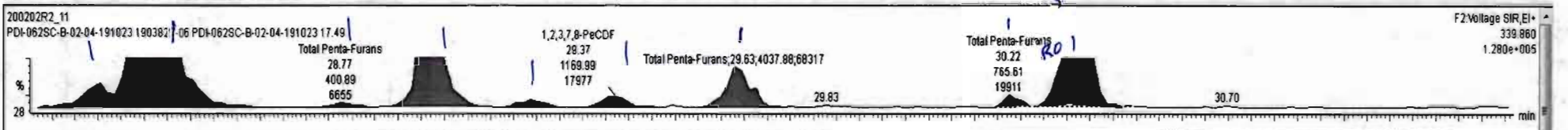


DPE2



#	Name	Resp	RA	nY	RRF	w/wd	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.074	24.82		0.000		NO	0.8861		0.0736	1.487
40	Total Penta-Dioxins				0.9723	10.074	29.96		0.000		NO	5.831		0.0871	6.814
41	Total Hexa-Dioxins				0.9211	10.074	33.63		0.000		NO	73.54		0.155	73.72
42	Total Hepta-Dioxins				0.9231	10.074	37.84		0.000		NO	322.4		0.688	322.4
43	Total Tetra-Furans				0.8020	10.074	23.61		0.000		NO	11.26		0.0743	11.76
44	1st Func. Penta-Furans				0.9074	10.074	27.08		0.000		NO	14.39		0.0385	14.39
45	Total Penta-Furans				0.9074	10.074	29.27		0.000		NO	10.90		0.0617	11.28
46	Total Hexa-Furans				0.8882	10.074	33.56		0.000		NO	42.92		0.132	43.00
47	Total Hepta-Furans				0.8644	10.074	37.82		0.000		NO	192.6		0.796	193.6

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nY	EMPC	Conc.
1	45 Total Penta-Furans	29.27	29.26	2.303e3	1.707e3	1.550	1.35	NO	0.44418	0.44418
2	45 Total Penta-Furans	29.27	28.39	2.882e4	1.826e4	1.550	1.58	NO	5.2140	5.2140
3	45 Total Penta-Furans	29.27	28.77	4.009e2	2.553e2	1.550	1.57	NO	0.072683	0.072683
4	45 Total Penta-Furans	29.27	28.97	1.177e4	7.989e3	1.550	1.47	NO	2.1885	2.1885
5	45 Total Penta-Furans	29.27	28.19	7.164e2	5.305e2	1.550	1.35	NO	0.13811	0.13811
6	9 1,2,3,7,8-PeCDF	28.38	29.37	1.170e3	8.090e2	1.550	1.45	NO	0.21175	0.21175
7	45 Total Penta-Furans	29.27	28.53	4.038e3	2.583e3	1.550	1.56	NO	0.73445	0.73445
8	45 Total Penta-Furans	29.27	30.22	7.656e2	4.306e2	1.550	1.78	NO	0.13249	0.13249
9	10 2,3,4,7,8-PeCDF	30.36	30.35	2.109e3	1.671e3	1.550	1.26	YES	0.37975	0.00000
10	45 Total Penta-Furans	29.27	30.38	9.640e3	6.293e3	1.550	1.53	NO	1.7547	1.7547



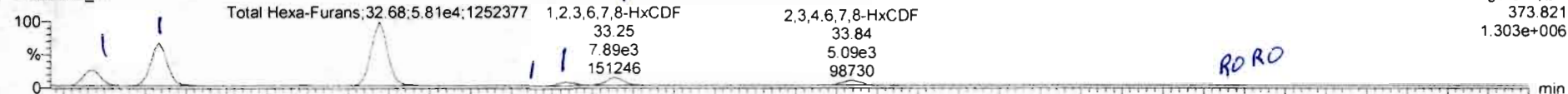
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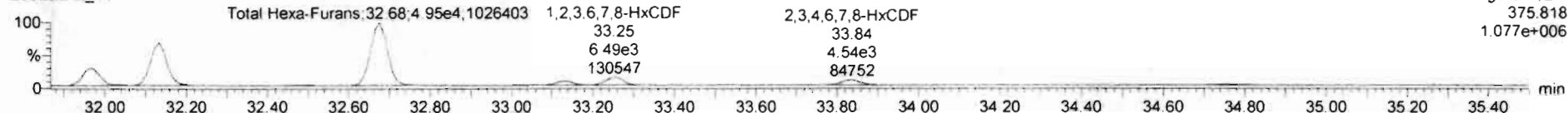
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1,2,3,4,7,8-HxCDF

200202R2_11

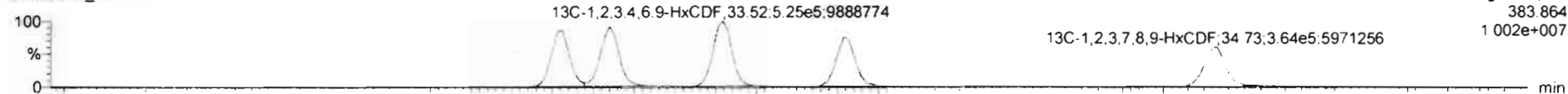


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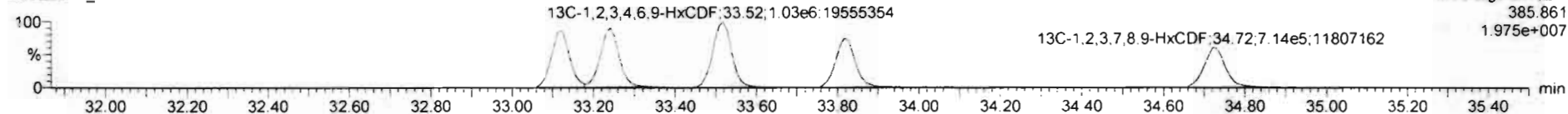


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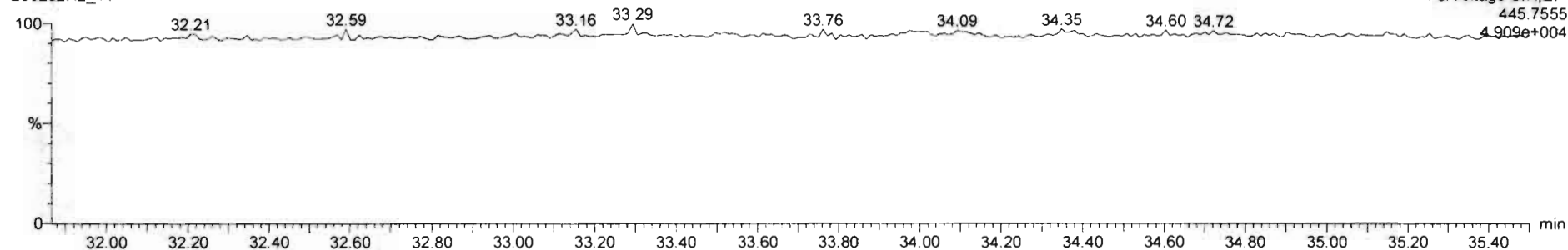


200202R2_11



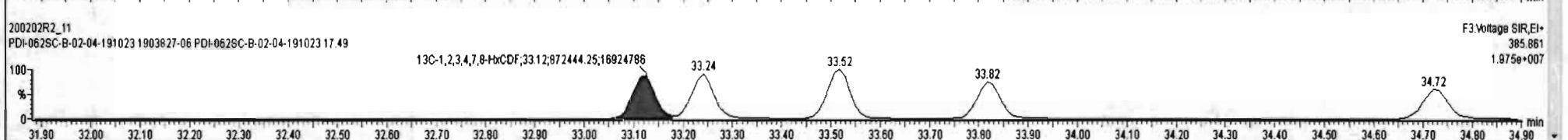
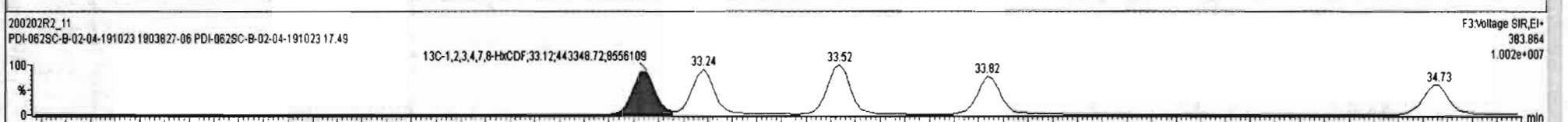
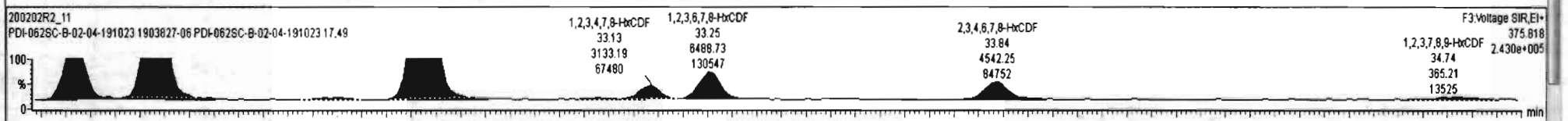
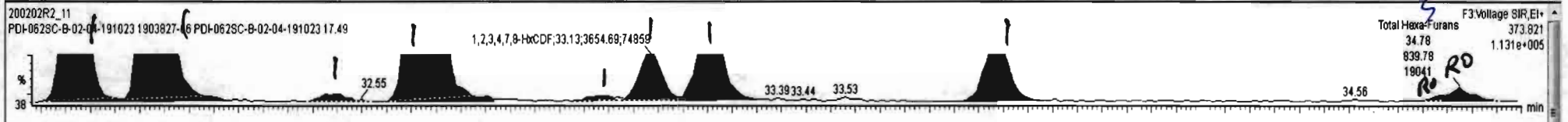
DPE3

200202R2_11



#	Name	Resp	RA	n/y	RPF	wtPct	Pred_RT	RT	Pred_R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans				0.8982	10.074	33.56		0.000		NO	42.92		0.132	43.23
47	Total Hepta-Furans				0.8511	10.074	37.83		0.000		NO	104.9		0.236	104.9
48	PFK1														
49	PFK2														
50	PFK3														
51	PFK4														

#	Name	Pred_RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	33.56	31.96	1.560e4	1.394e4	1.240	1.13	NO	5.1843	5.1643
2	Total Hexa-Furans	33.56	32.13	3.977e4	3.336e4	1.240	1.19	NO	12.980	12.860
3	Total Hexa-Furans	33.56	32.51	5.828e2	4.391e2	1.240	1.33	NO	0.17986	0.17986
4	Total Hexa-Furans	33.56	32.88	5.897e4	5.017e4	1.240	1.18	NO	19.221	19.221
5	Total Hexa-Furans	33.56	33.04	3.612e2	2.847e2	1.240	1.36	NO	0.11023	0.11023
6	1,2,3,4,7,8-HxCDF	33.12	33.13	3.655e3	3.133e3	1.240	1.17	NO	1.1878	1.1878
7	1,2,3,6,7,8-HxCDF	33.25	33.25	7.896e3	6.489e3	1.240	1.22	NO	2.4192	2.4192
8	2,3,4,6,7,8-HxCDF	33.85	33.84	5.090e3	4.542e3	1.240	1.12	NO	1.7378	1.7378
9	1,2,3,7,8-HxCDF	34.73	34.73	1.988e2	3.652e2	1.240	0.54	YES	0.077136	0.00000
10	Total Hexa-Furans	33.56	34.78	8.398e2	5.858e2	1.240	1.43	YES	0.23101	0.00000

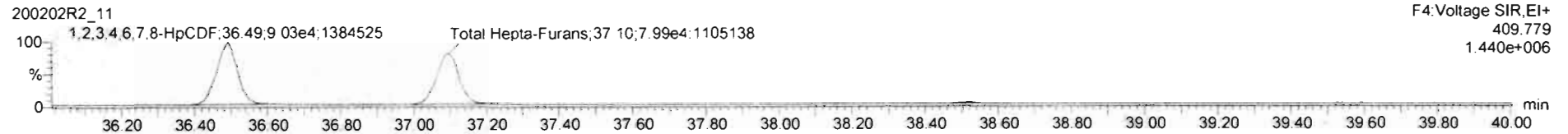
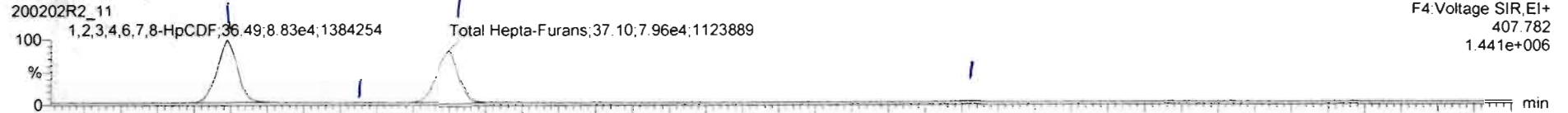


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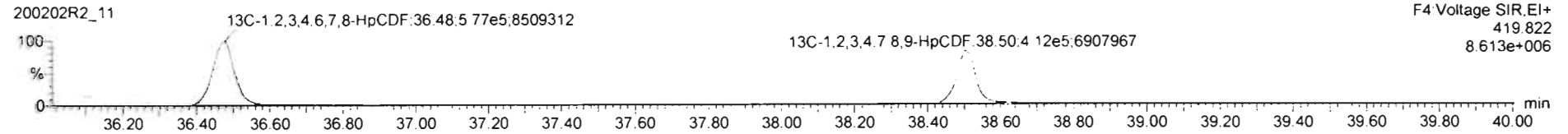
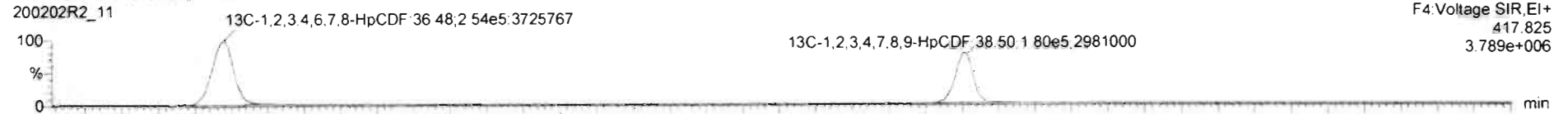
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Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_11, Date: 03-Feb-2020, Time: 06:07:13, ID: 1903827-06 PDI-062SC-B-02-04-191023 17.49, Description: PDI-062SC-B-02-04-191023

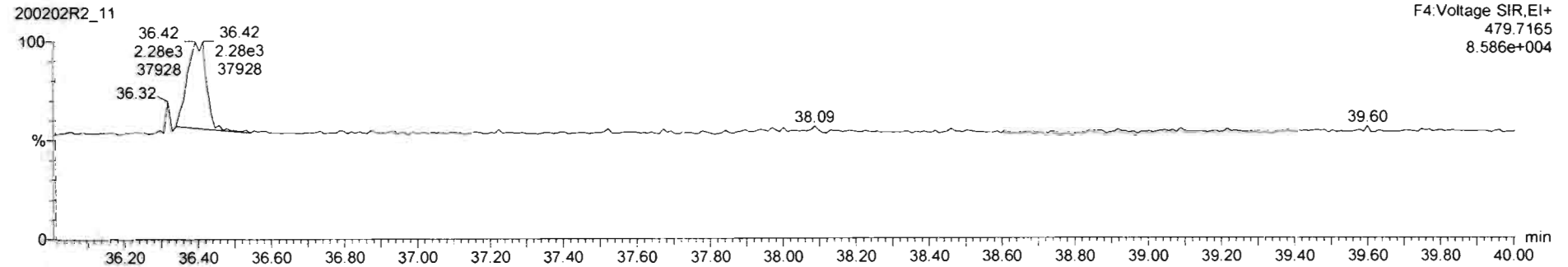
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13C-1,2,3,4,6,7,8-HpCDF

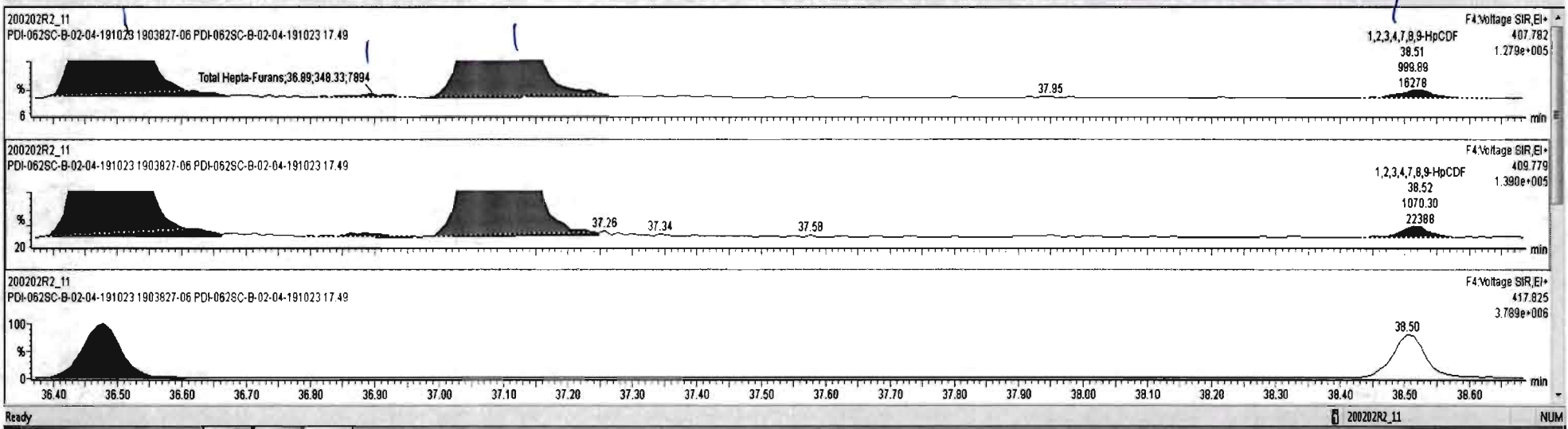


DPE4



#	Name	Resp	RA	nly	RRF	wtAve	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
47	Total Hepta-Furans				0.8511	10.074	37.83		0.000		NO	104.9		0.235	104.9
48	PFK1														
49	PFK2														
50	PFK3														
51	PFK4														
52	PFK5														
53	DPE1														
54	DPE2														
55	None														

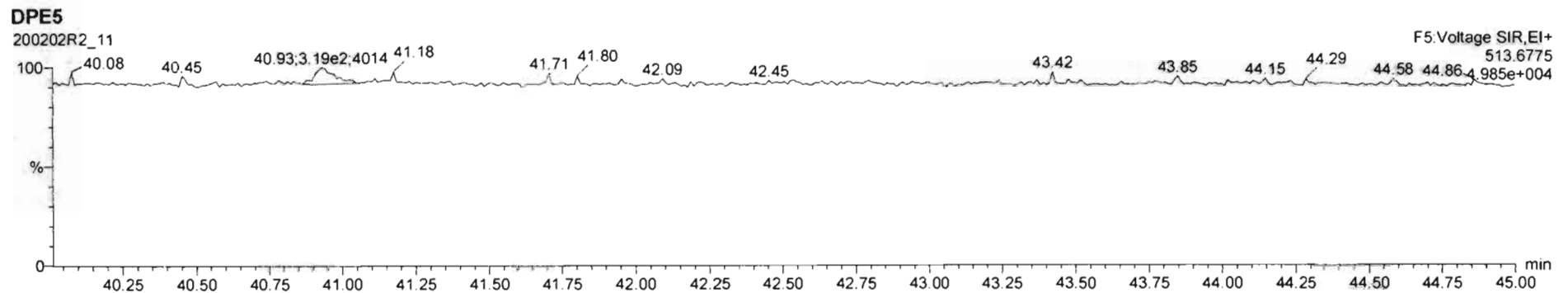
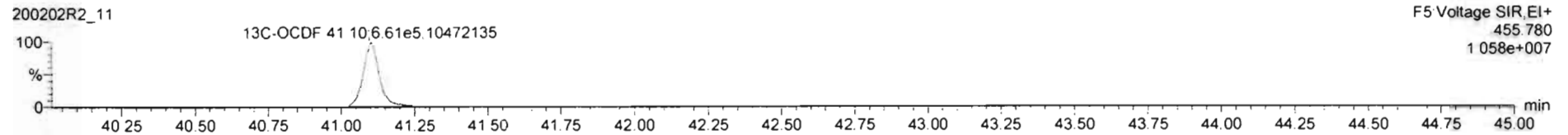
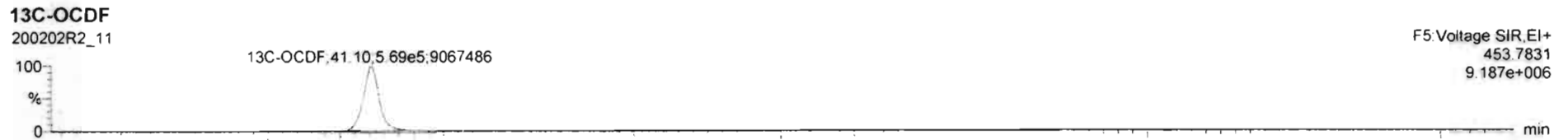
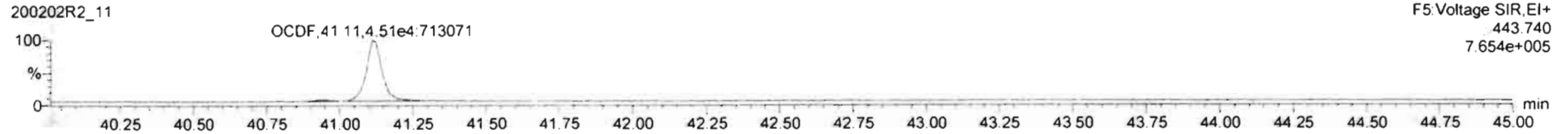
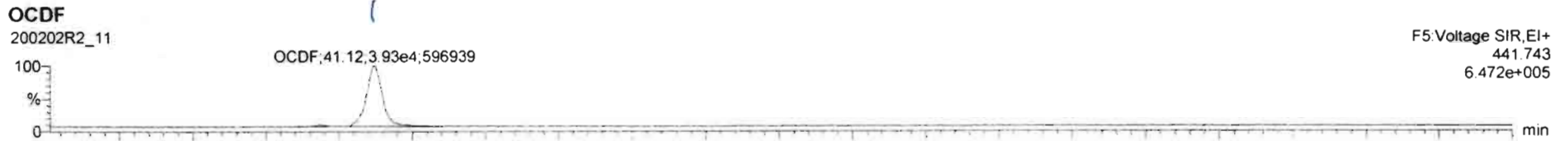
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	36.52	36.49	8.987e4	9.242e4	1.040	0.97	NO	51.166	51.166
2	Total Hepta-Furans	37.83	36.89	3.483e2	3.921e2	1.040	0.89	NO	0.24264	0.24264
3	Total Hepta-Furans	37.83	37.10	8.042e4	8.066e4	1.040	1.00	NO	52.786	52.786
4	1,2,3,4,7,8,9-HpCDF	38.50	38.51	9.999e2	1.070e3	1.040	0.93	NO	0.70771	0.70771



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Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

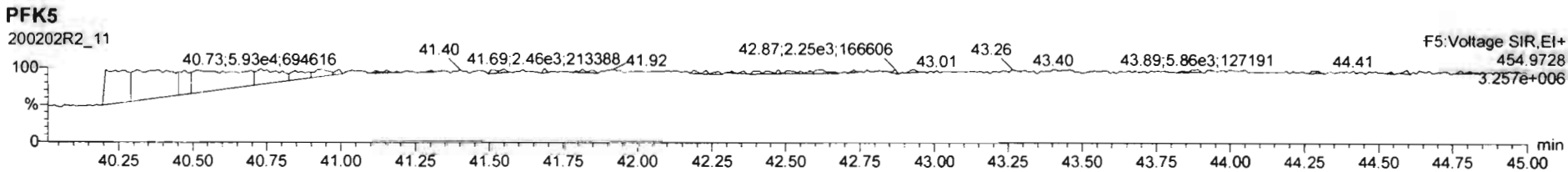
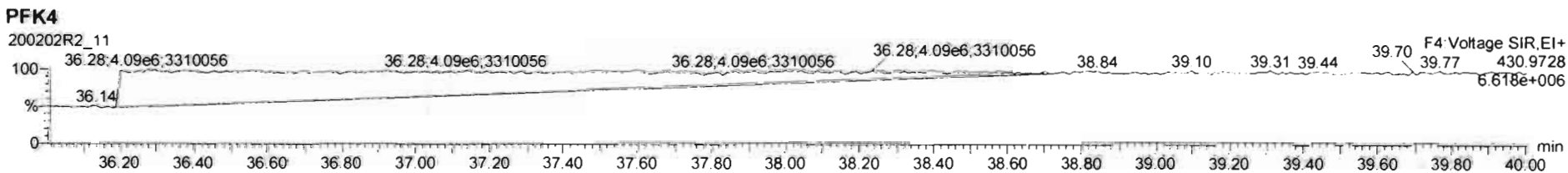
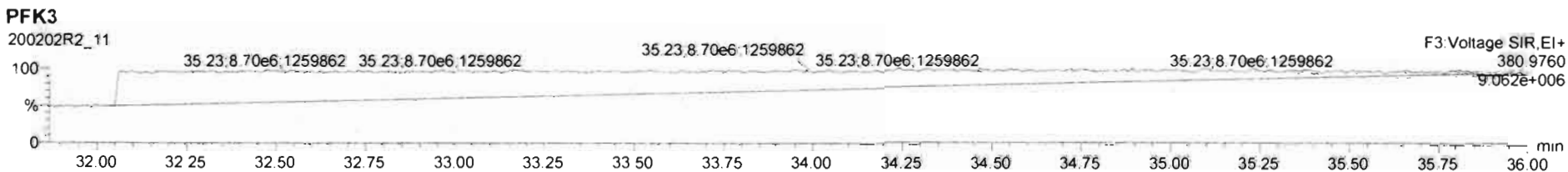
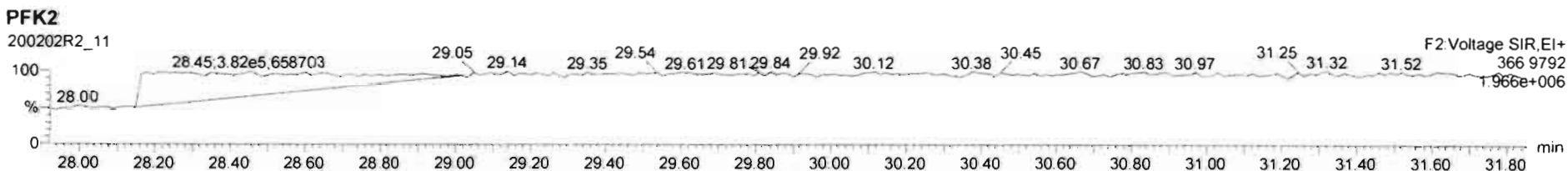
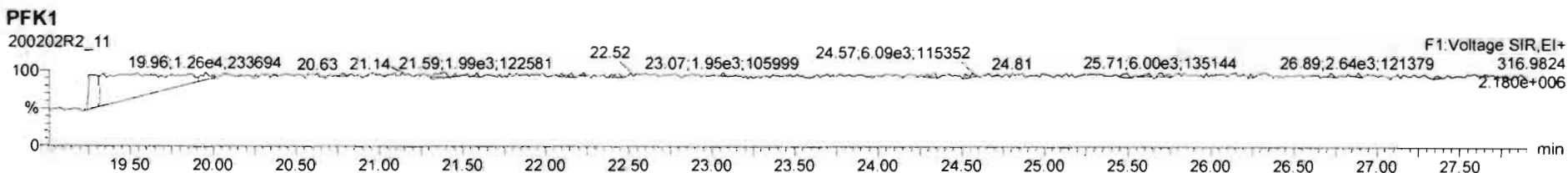
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0702/20/2020

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#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD				0.988	10.015	25.71		1.00		NO			0.132	
2	2 1,2,3,7,8-PeCDD				0.972	10.015	30.64		1.00		NO			0.0903	
3	3 1,2,3,4,7,8-HxCDD				1.07	10.015	33.99		1.00		NO			0.0850	
4	4 1,2,3,6,7,8-HxCDD				0.921	10.015	34.08		1.00		NO			0.0838	
5	5 1,2,3,7,8,9-HxCDD				0.918	10.015	34.39		1.00		NO			0.0859	
6	6 1,2,3,4,6,7,8-HpCDD	2734.934	1.150	NO	0.923	10.015	37.91	37.91	1.00	1.00	NO	0.6541		0.0956	0.6541
7	7 OCDD	13301.701	0.869	NO	0.975	10.015	40.90	40.92	1.00	1.00	NO	3.947		0.120	3.947
8	8 2,3,7,8-TCDF	362.559	1.643	YES	0.802	10.015	24.82	24.82	1.00	1.00	NO	0.08709		0.132	0.05833
9	9 1,2,3,7,8-PeCDF	422.037	1.082	YES	0.907	10.015	29.36	29.35	1.00	1.00	NO	0.07123		0.0360	0.06089
10	10 2,3,4,7,8-PeCDF				0.952	10.015	30.35		1.00		NO			0.0781	
11	11 1,2,3,4,7,8-HxCDF	353.162	1.745	YES	0.862	10.015	33.10	33.12	1.00	1.00	NO	0.08029		0.0577	0.06552
12	12 1,2,3,6,7,8-HxCDF				0.841	10.015	33.24		1.00		NO			0.0520	
13	13 2,3,4,6,7,8-HxCDF				0.898	10.015	33.84		1.00		NO			0.0528	
14	14 1,2,3,7,8,9-HxCDF	355.358	1.164	NO	0.858	10.015	34.71	34.73	1.00	1.00	NO	0.08826		0.0739	0.08826
15	15 1,2,3,4,6,7,8-HpCDF	437.503	0.737	YES	0.851	10.015	36.51	36.48	1.00	1.00	NO	0.1237		0.0685	0.1029
16	16 1,2,3,4,7,8,9-HpCDF				0.980	10.015	38.49		1.00		NO			0.0684	
17	17 OCDF	449.717	1.036	YES	0.806	10.015	41.09	41.11	1.00	1.00	NO	0.1453		0.0663	0.1349
18	18 13C-2,3,7,8-TCDD	828830.406	0.782	NO	1.20	10.015	25.68	25.67	1.03	1.03	NO	91.27	45.7	0.150	
19	19 13C-1,2,3,7,8-PeCDD	905135.219	0.628	NO	0.967	10.015	30.41	30.62	1.22	1.22	NO	123.6	61.9	0.168	
20	20 13C-1,2,3,4,7,8-HxCDD	851851.750	1.320	NO	0.874	10.015	33.98	33.98	1.01	1.01	NO	134.5	67.3	0.240	
21	21 13C-1,2,3,6,7,8-HxCDD	1011443.0...	1.235	NO	1.05	10.015	34.08	34.08	1.02	1.02	NO	133.4	66.8	0.201	
22	22 13C-1,2,3,7,8,9-HxCDD	1033050.1...	1.239	NO	0.974	10.015	34.38	34.36	1.03	1.03	NO	146.3	73.2	0.215	
23	23 13C-1,2,3,4,6,7,8-HpCDD	904520.376	1.041	NO	0.747	10.015	37.93	37.90	1.13	1.13	NO	167.0	83.6	0.329	
24	24 13C-OCDD	1381130.0...	0.890	NO	0.707	10.015	40.81	40.90	1.22	1.22	NO	269.7	67.5	0.253	
25	25 13C-2,3,7,8-TCDF	1036636.7...	0.774	NO	1.07	10.015	24.86	24.79	0.99	0.99	NO	83.05	41.6	0.187	
26	26 13C-1,2,3,7,8-PeCDF	1304074.1...	1.577	NO	1.00	10.015	29.19	29.34	1.17	1.17	NO	111.1	55.6	0.249	
27	27 13C-2,3,4,7,8-PeCDF	1217920.7...	1.575	NO	0.962	10.015	30.14	30.32	1.20	1.21	NO	108.1	54.1	0.260	
28	28 13C-1,2,3,4,7,8-HxCDF	1018646.6...	0.501	NO	1.05	10.015	33.11	33.10	0.99	0.99	NO	133.9	67.1	0.289	
29	29 13C-1,2,3,6,7,8-HxCDF	1150259.1...	0.507	NO	1.19	10.015	33.21	33.23	0.99	0.99	NO	133.4	66.8	0.255	
30	30 13C-2,3,4,6,7,8-HxCDF	1091030.4...	0.510	NO	1.07	10.015	33.81	33.81	1.01	1.01	NO	141.2	70.7	0.285	
31	31 13C-1,2,3,7,8,9-HxCDF	937367.250	0.514	NO	0.922	10.015	34.71	34.71	1.04	1.04	NO	140.2	70.2	0.329	

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-12.qld

Last Altered: Thursday, February 13, 2020 11:34:07 Pacific Standard Time
Printed: Thursday, February 13, 2020 11:37:20 Pacific Standard Time

Name: 200202R2_12, Date: 03-Feb-2020, Time: 06:54:13, ID: 1903827-07 PDI-062SC-B-04-06-191023 16.2, Description: PDI-062SC-B-04-06-191023

	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	830149.406	0.437	NO	0.767	10.015	36.46	36.47	1.09	1.09	NO	149.3	74.8	0.400	
33	33 13C-1,2,3,4,7,8,9-HpCDF	611313.078	0.434	NO	0.552	10.015	38.47	38.49	1.15	1.15	NO	152.7	76.5	0.555	
34	34 13C-OCDF	1534876.5...	0.865	NO	0.789	10.015	41.05	41.09	1.23	1.23	NO	268.2	67.2	0.224	
35	35 37Cl-2,3,7,8-TCDD	376133.000			1.18	10.015	25.71	25.69	1.03	1.03	NO	42.20	52.8	0.0508	
36	36 13C-1,2,3,4-TCDD	1513084.8...	0.802	NO	1.00	10.015	25.08	25.03	1.00	1.00	NO	199.7	100	0.180	
37	37 13C-1,2,3,4-TCDF	2339847.7...	0.783	NO	1.00	10.015	23.42	23.37	1.00	1.00	NO	199.7	100	0.199	
38	38 13C-1,2,3,4,6,9-HxCDF	1447484.6...	0.508	NO	1.00	10.015	33.52	33.51	1.00	1.00	NO	199.7	100	0.304	
39	39 Total Tetra-Dioxins				0.988	10.015	24.62		0.00		NO			0.0731	
40	40 Total Penta-Dioxins				0.972	10.015	29.96		0.00		NO	0.0000		0.0404	0.04316
41	41 Total Hexa-Dioxins				0.921	10.015	33.63		0.00		NO	0.4651		0.0889	0.4651
42	42 Total Hepta-Dioxins				0.923	10.015	37.64		0.00		NO	1.472		0.0956	1.472
43	43 Total Tetra-Furans				0.802	10.015	23.61		0.00		NO	0.0000		0.0613	0.3739
44	44 1st Func. Penta-Furans				0.907	10.015	27.09		0.00		NO			0.0295	
45	45 Total Penta-Furans				0.907	10.015	29.27		0.00		NO	0.0000		0.0369	0.06089
46	46 Total Hexa-Furans				0.898	10.015	33.56		0.00		NO	0.1277		0.0563	0.1932
47	47 Total Hepta-Furans				0.851	10.015	37.83		0.00		NO	0.0000		0.0370	0.1029

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-12.qld

Last Altered: Thursday, February 13, 2020 11:34:07 Pacific Standard Time

Printed: Thursday, February 13, 2020 11:37:34 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R2_12, Date: 03-Feb-2020, Time: 06:54:13, ID: 1903827-07 PDI-062SC-B-04-06-191023 16.2, Description: PDI-062SC-B-04-06-191023

Tetra-Dioxins

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

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	0.00e0	9.05e5	0.825	YES	29.96	29.89	0.0000	0.04316

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	7.48e2	0.00e0	1.118	NO	33.63	33.31	0.1680	0.1680
2	41 Total Hexa-Dioxins	1.32e3	0.00e0	1.274	NO	33.63	32.50	0.2971	0.2971

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	2.73e3	9.05e5	1.150	NO	37.91	37.91	0.6541	0.6541
2	42 Total Hepta-Dioxins	3.42e3	9.05e5	1.132	NO	37.64	36.86	0.8175	0.8175

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	8 2,3,7,8-TCDF	3.63e2	1.04e6	1.643	YES	24.82	24.82	0.0000	0.05833
2	43 Total Tetra-Furans	0.00e0	1.04e6	0.619	YES	23.61	20.78	0.0000	0.3156

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-12.qld

Last Altered: Thursday, February 13, 2020 11:34:07 Pacific Standard Time

Printed: Thursday, February 13, 2020 11:37:34 Pacific Standard Time

Name: 200202R2_12, Date: 03-Feb-2020, Time: 06:54:13, ID: 1903827-07 PDI-062SC-B-04-06-191023 16.2, Description: PDI-062SC-B-04-06-191023

Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	9 1,2,3,7,8-PeCDF	4.22e2	1.30e6	1.082	YES	29.36	29.35	0.0000	0.06089

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	3.55e2	9.37e5	1.164	NO	34.71	34.73	0.08826	0.08826
2	46 Total Hexa-Furans	1.86e2	0.00e0	1.231	NO	33.56	32.12	0.03940	0.03940
3	11 1,2,3,4,7,8-HxCDF	3.53e2	1.02e6	1.745	YES	33.10	33.12	0.0000	0.06552

Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	4.38e2	8.30e5	0.737	YES	36.51	36.48	0.0000	0.1029

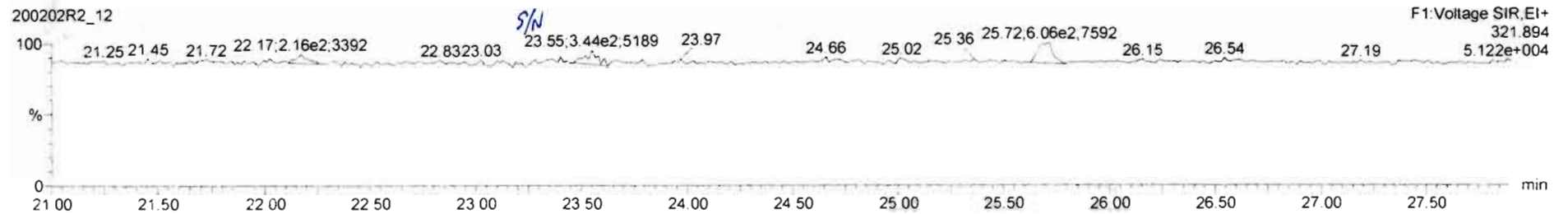
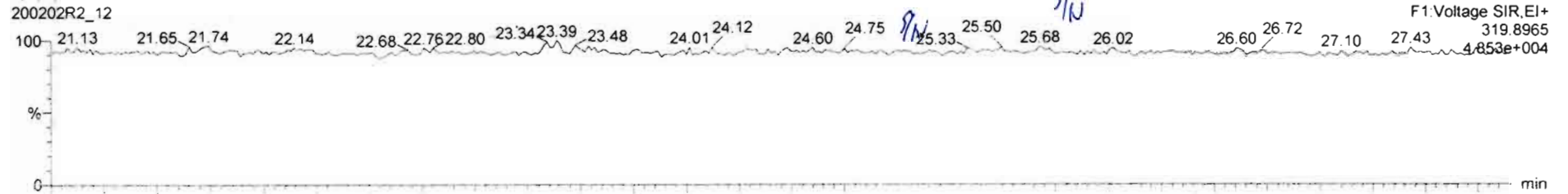
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Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time

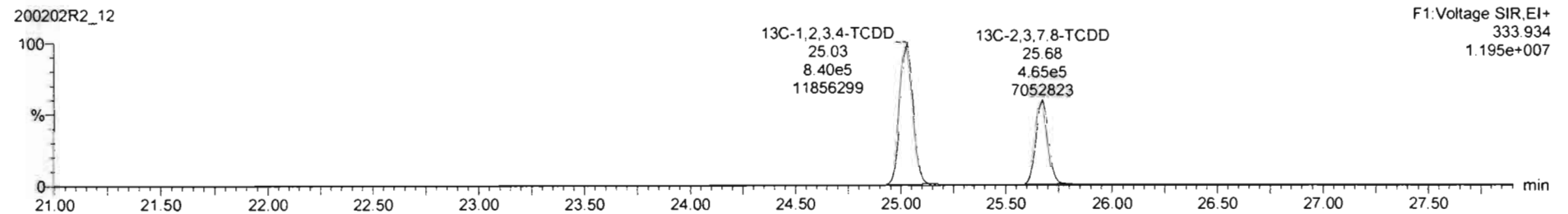
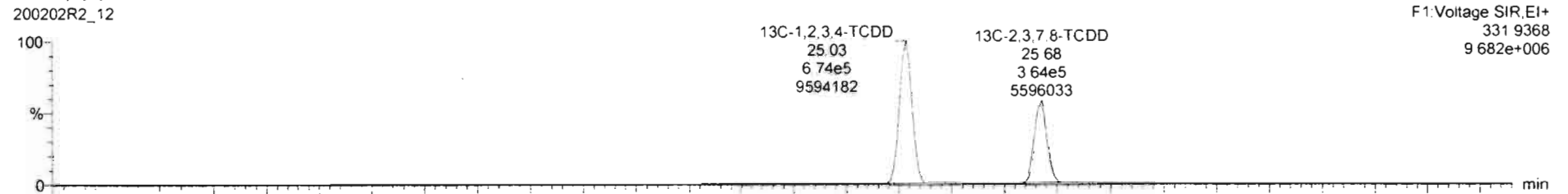
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2,3,7,8-TCDD

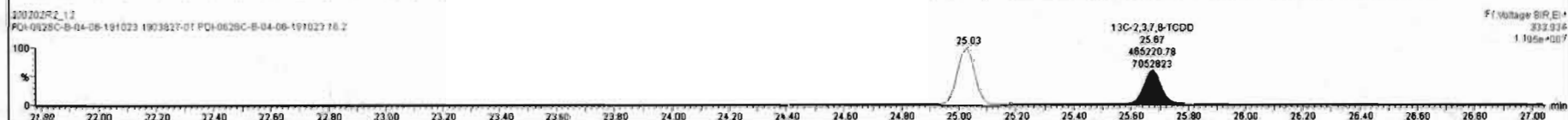
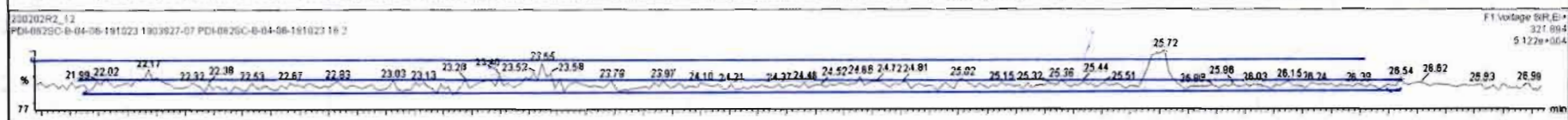
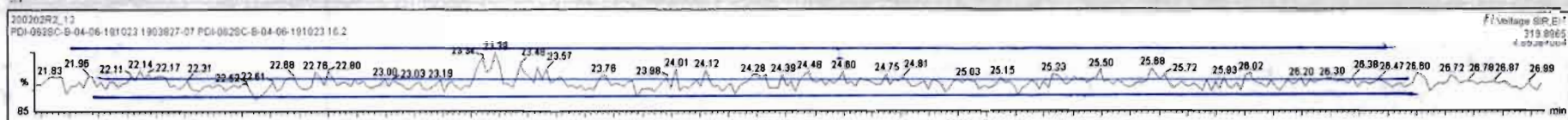


13C-2,3,7,8-TCDD



#	Name	Conc	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	ISF	RA	V/N	RRT	Acq Date	Acq Time	** Chk Noise	ID	Sample Text	Factor1	SNR	Cal File
33	13C-1,2,3,4,7,8,9-HxCDF	152.697	0.555	78.5		6.113e5	0.552	39.49	33	36	0.434	NO	1.149	03-Feb-20	06:54:13	10181.440	1903827-07	POI-0625C-B-04...	0.0	10.0	abs_1...
34	13C-OCDF	266.245	0.224	67.2		1.535e6	0.789	41.09	34	36	0.865	NO	1.226	03-Feb-20	06:54:13	4553.435	1903827-07	POI-0625C-B-04...	0.0	10.0	abs_1...
35	37Cl-2,3,7,8-TCDD	42.2037	0.0508	52.8		3.761e5	1.176	25.89	35	36			1.026	03-Feb-20	06:54:13		1903827-07	POI-0625C-B-04...	0.0	10.0	abs_1...
36	13C-1,2,3,4-TCDD	199.686	0.180	100.0		1.513e6	1.000	25.03	36	36	0.802	NO	1.000	03-Feb-20	06:54:13	2605.234	1903827-07	POI-0625C-B-04...	0.0	10.0	abs_1...
37	13C-1,2,3,4-TCDF	199.686	0.199	100.0		2.340e6	1.000	23.37	37	37	0.783	NO	1.000	03-Feb-20	06:54:13	3618.834	1903827-07	POI-0625C-B-04...	0.0	10.0	abs_1...
38	13C-1,2,3,4,8,9-HxCDF	199.686	0.204	100.0		1.447e6	1.000	33.51	38	36	0.506	NO	1.000	03-Feb-20	06:54:13	7754.886	1903827-07	POI-0625C-B-04...	0.0	10.0	abs_1...
39	Total Tetra-Chlorine		0.0731				0.968		39					03-Feb-20	06:54:13		1903827-07	POI-0625C-B-04...	0.0	10.0	abs_1...
40	Total Penta-Dioxins		0.0404				0.972		40					03-Feb-20	06:54:13		1903827-07	POI-0625C-B-04...	0.0	10.0	abs_1...
41	Total Hexa-Dioxins	0.310993	0.0089		0.457571		0.921		41					03-Feb-20	06:54:13		1903827-07	POI-0625C-B-04...	0.0	10.0	abs_1...
42	Total Hepta-Dioxins	1.37719	0.0956		1.37719		0.923		42					03-Feb-20	06:54:13		1903827-07	POI-0625C-B-04...	0.0	10.0	abs_1...
43	Total Tetra-Furans	0.336967	0.132		0.433752		0.802		43					03-Feb-20	06:54:13		1903827-07	POI-0625C-B-04...	0.0	10.0	abs_1...
44	1st Func. Penta-Furans		0.0295				0.907		44					03-Feb-20	06:54:13		1903827-07	POI-0625C-B-04...	0.0	10.0	abs_1...

#	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	rly	Resp	Conc	EMPC



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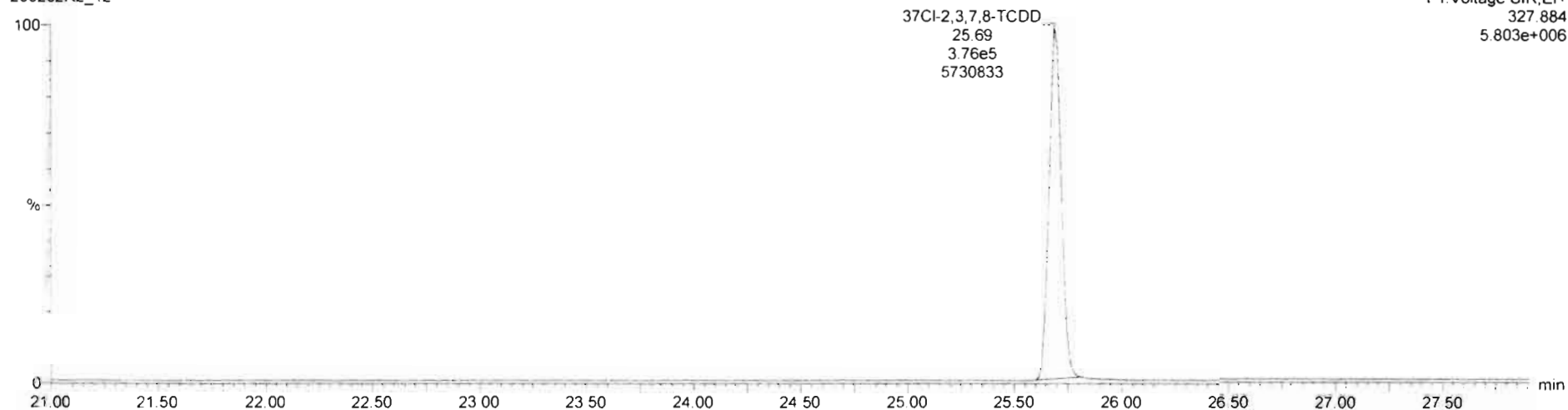
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Name: 200202R2_12, Date: 03-Feb-2020, Time: 06:54:13, ID: 1903827-07 PDI-062SC-B-04-06-191023 16.2, Description: PDI-062SC-B-04-06-191023

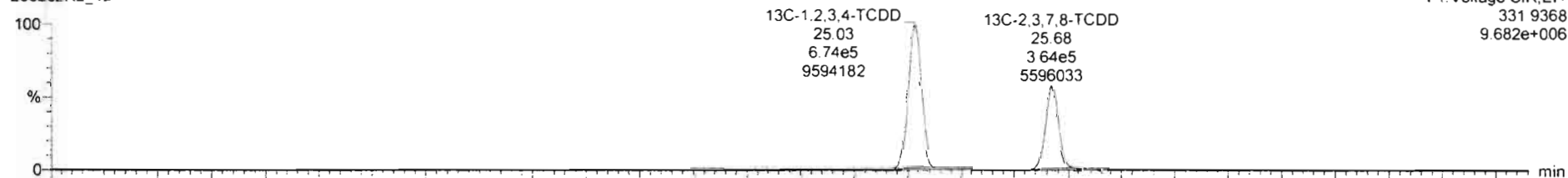
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200202R2_12

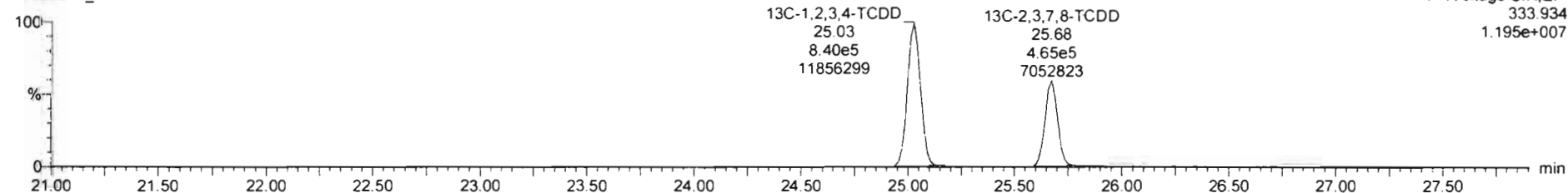


13C-1,2,3,4-TCDD

200202R2_12



200202R2_12



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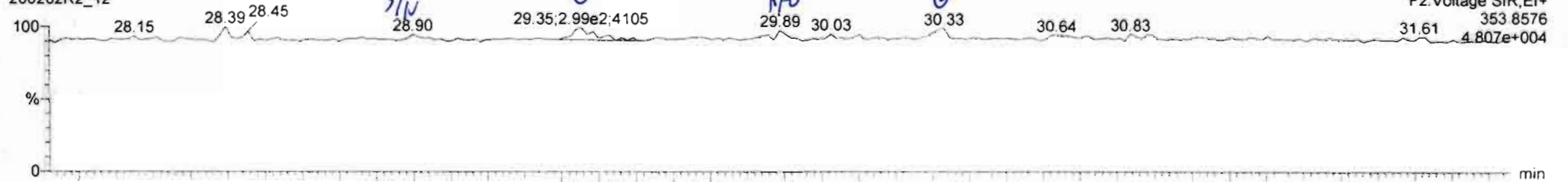
Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time

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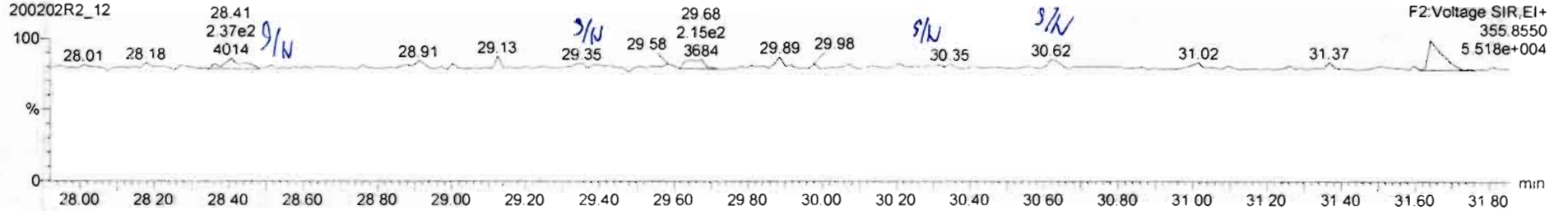
Name: 200202R2_12, Date: 03-Feb-2020, Time: 06:54:13, ID: 1903827-07 PDI-062SC-B-04-06-191023 16.2, Description: PDI-062SC-B-04-06-191023

1,2,3,7,8-PeCDD

200202R2_12

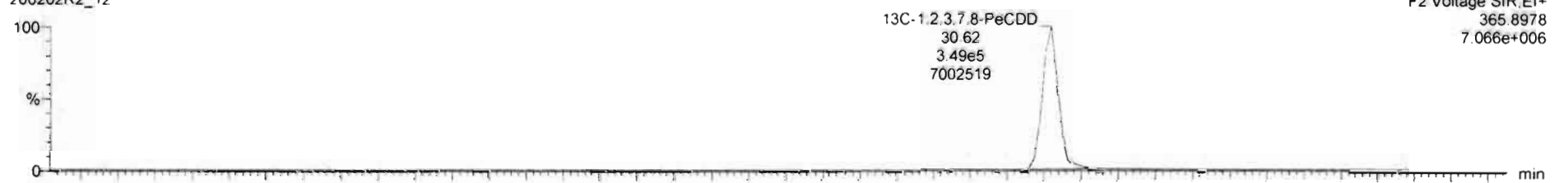


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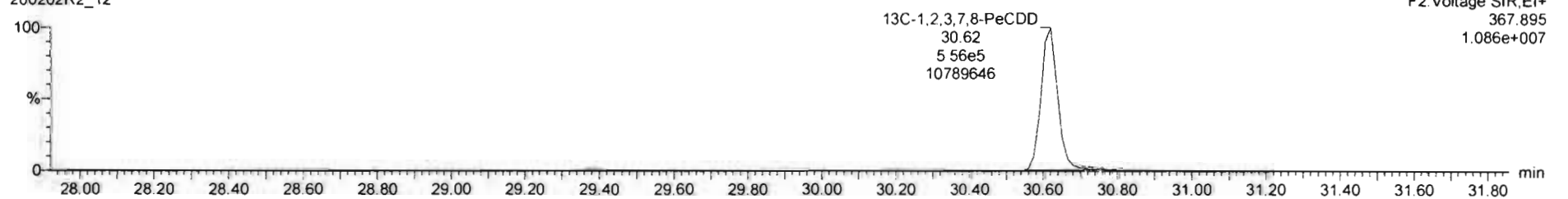


13C-1,2,3,7,8-PeCDD

200202R2_12



200202R2_12

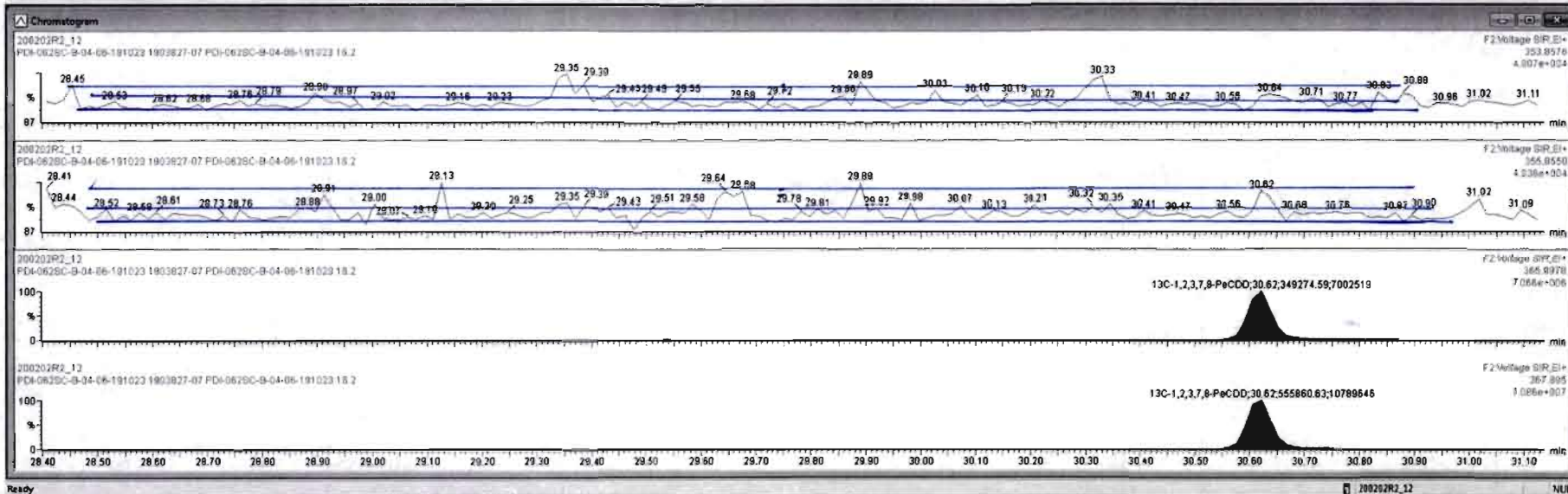


TargetLynx.XS - 20020212.qld
 File Edit View Display Processing Window Help

20020212_12-1903827-07-PDA-0625C-E-04-06-191023-16.2 PDA-0625C-E-04-06-191023

Name	Conc	DL	%Rec	EMPC	Area Resp	RRF	RT	#	Est	RA	Y/N	RRF	Acq Date	Acq Time	% Conv	ID	Sample Test	Factor1	SN	Cal File
13C-1,2,3,4-TCDF	199.699	0.190	100.0		1.513e6	1.000	29.03	36	36	0.802	NO	1.000	03-Feb-20	06:54:13	2905.234	1903827-07	PDA-0625C-B-04	0.0	10.0	db5_1
13C-1,2,3,4-TCDF	199.699	0.199	100.0		2.340e6	1.000	29.37	37	37	0.783	NO	1.000	03-Feb-20	06:54:13	3916.834	1903827-07	PDA-0625C-B-04	0.0	10.0	db5_1
13C-1,2,3,4,6,8-HxCDF	199.699	0.304	100.0		1.447e6	1.000	33.51	38	38	0.500	NO	1.000	03-Feb-20	06:54:13	7754.986	1903827-07	PDA-0625C-B-04	0.0	10.0	db5_1
Total Tetra-Dioxins		0.0731			0.989			39					03-Feb-20	06:54:13		1903827-07	PDA-0625C-B-04	0.0	10.0	db5_1
Total Penta-Dioxins		0.0404			0.872			40					03-Feb-20	06:54:13		1903827-07	PDA-0625C-B-04	0.0	10.0	db5_1
Total Hexa-Dioxins	0.310993	0.0969			0.457571		0.921	41					03-Feb-20	06:54:13		1903827-07	PDA-0625C-B-04	0.0	10.0	db5_1
Total Hepta-Dioxins	1.37719	0.0656			1.37719		0.923	42					03-Feb-20	06:54:13		1903827-07	PDA-0625C-B-04	0.0	10.0	db5_1
Total Tetra-Furans	0.336957	0.132			0.439752		0.802	43					03-Feb-20	06:54:13		1903827-07	PDA-0625C-B-04	0.0	10.0	db5_1
1st Func. Penta-Furans		0.0295			0.907		0.907	44					03-Feb-20	06:54:13		1903827-07	PDA-0625C-B-04	0.0	10.0	db5_1
Total Penta-Furans		0.0369			0.907		0.907	45					03-Feb-20	06:54:13		1903827-07	PDA-0625C-B-04	0.0	10.0	db5_1
Total Hexa-Furans	0.0902582	0.0583			0.0902582		0.898	46					03-Feb-20	06:54:13		1903827-07	PDA-0625C-B-04	0.0	10.0	db5_1
Total Hepta-Furans	0.000000	0.0370			0.102938		0.851	47					03-Feb-20	06:54:13		1903827-07	PDA-0625C-B-04	0.0	10.0	db5_1

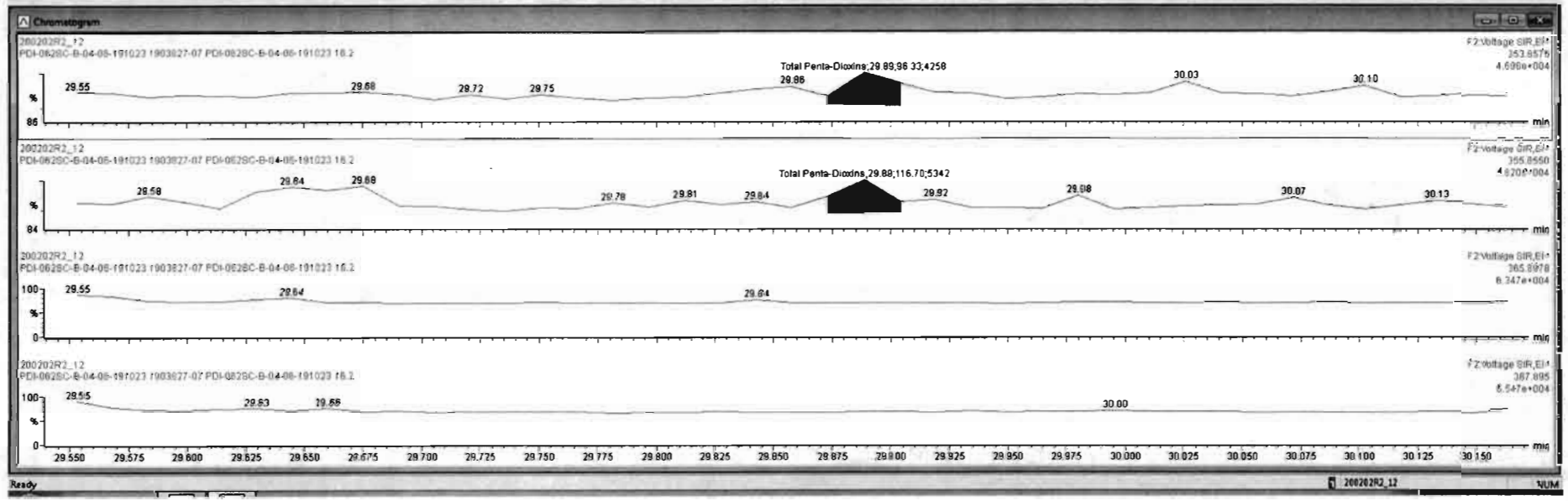
Name	RT	Int Height	Ext Height	Int Resp	Ext Resp	RA	nly	Itasp	Conc	EMPC
1										



TargetLynx.XS - 200202-12.qtd
 File Edit View Display Processing Window Help

#	Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	SA	RA	Y/N	RRT	Acq Date	Acq Time	1st Or Name	ID	Sample Test	Factor1	SNR	Cal File
31	13C-1,2,3,7,8,9-HxCDF	140.207	0.329	70.2		9.374e5	0.922	34.71	31	38	0.514	NO	1.036	03-Feb-20	08:54:13	7754.996	1903827-07...	PCI-0625C-B-04	0.0	10.0	db5_1...
32	13C-1,2,3,4,6,7,8-HpCDF	149.289	0.400	74.8		8.301e5	0.767	36.47	32	38	0.437	NO	1.088	03-Feb-20	08:54:13	10181.440	1903827-07...	PCI-0625C-B-04	0.0	10.0	db5_1...
33	13C-1,2,3,4,7,8,9-HpCDF	152.897	0.555	76.5		8.113e5	0.552	38.49	33	38	0.434	NO	1.149	03-Feb-20	08:54:13	10181.440	1903827-07...	PCI-0625C-B-04	0.0	10.0	db5_1...
34	13C-OCDF	288.245	0.224	67.2		1.535e6	0.789	41.09	34	38	0.865	NO	1.228	03-Feb-20	08:54:13	4553.435	1903827-07...	PCI-0625C-B-04	0.0	10.0	db5_1...
36	37Cl-2,3,7,8-TCDD	42.2037	0.0508	52.8		3.761e5	1.175	25.99	36	38			1.026	03-Feb-20	08:54:13		1903827-07...	PCI-0625C-B-04	0.0	10.0	db5_1...
38	13C-1,2,3,4-TCDD	199.898	0.180	100.0		1.513e6	1.000	25.03	38	38	0.802	NO	1.000	03-Feb-20	08:54:13	2805.234	1903827-07...	PCI-0625C-B-04	0.0	10.0	db5_1...
37	13C-1,2,3,4-TCDF	199.898	0.199	100.0		2.340e6	1.000	23.37	37	37	0.783	NO	1.000	03-Feb-20	08:54:13	3818.834	1903827-07...	PCI-0625C-B-04	0.0	10.0	db5_1...
39	13C-1,2,3,4,6,8-HxCDF	199.898	0.304	100.0		1.447e6	1.000	33.51	39	38	0.508	NO	1.000	03-Feb-20	08:54:13	7754.996	1903827-07...	PCI-0625C-B-04	0.0	10.0	db5_1...
39	Total Tetra-Dioxins		0.0731			0.989			39					03-Feb-20	08:54:13		1903827-07...	PCI-0625C-B-04	0.0	10.0	db5_1...
40	Total Penta-Dioxins	0.900000	0.3404		0.0431637	0.872			40					03-Feb-20	08:54:13		1903827-07...	PCI-0625C-B-04	0.0	10.0	db5_1...
41	Total Hexa-Dioxins	0.465080	0.0889		0.465790	0.921			41					03-Feb-20	08:54:13		1903827-07...	PCI-0625C-B-04	0.0	10.0	db5_1...
42	Total Hepta-Dioxins	1.47180	0.0856		1.47180	0.923			42					03-Feb-20	08:54:13		1903827-07...	PCI-0625C-B-04	0.0	10.0	db5_1...

#	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	Resp	Conc	EMPC
1	Total Penta-Dioxins	29.89	4.259e3	5.342e3	9.833e1	1.167e2	0.83	YES	0.000e0	0.000	0.0432

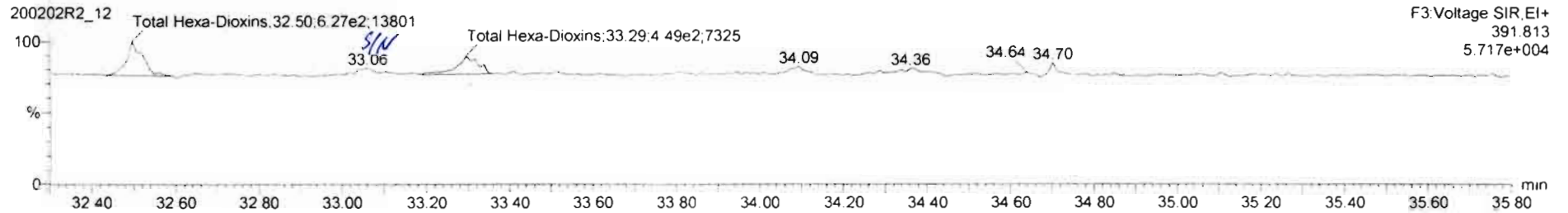
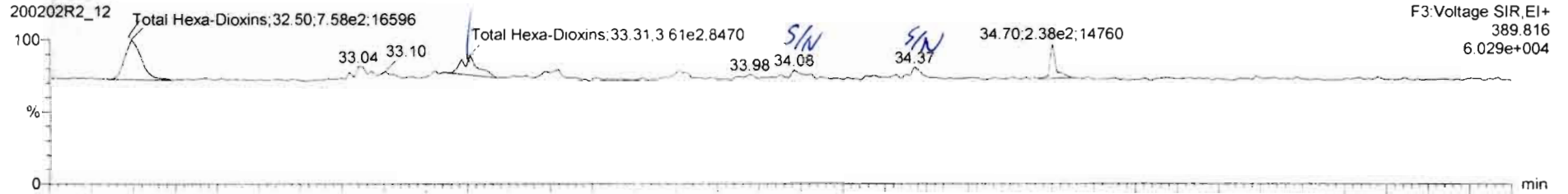


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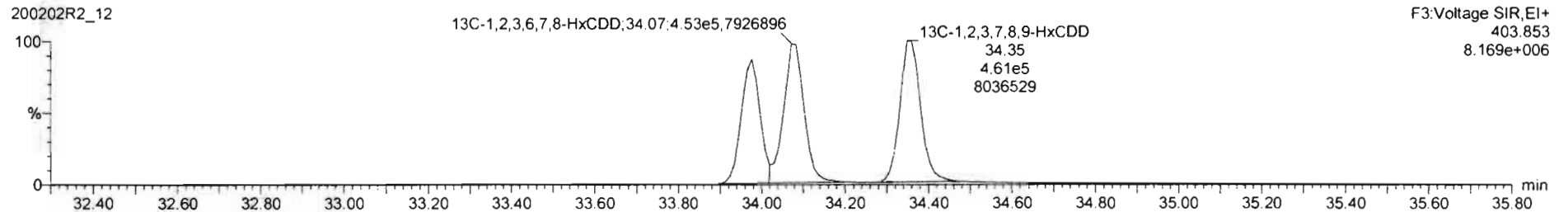
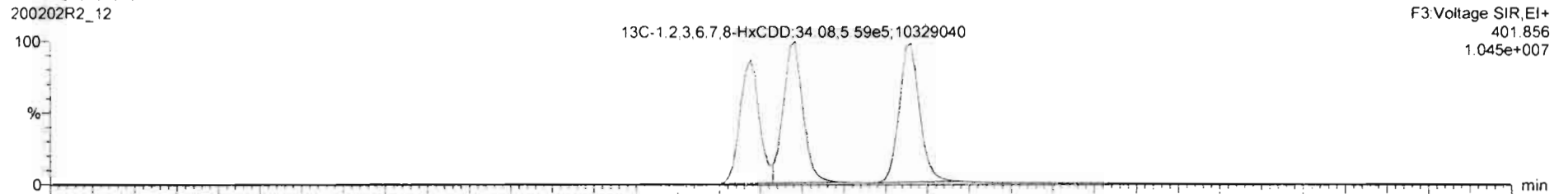
Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time
Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_12, Date: 03-Feb-2020, Time: 06:54:13, ID: 1903827-07 PDI-062SC-B-04-06-191023 16.2, Description: PDI-062SC-B-04-06-191023

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



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



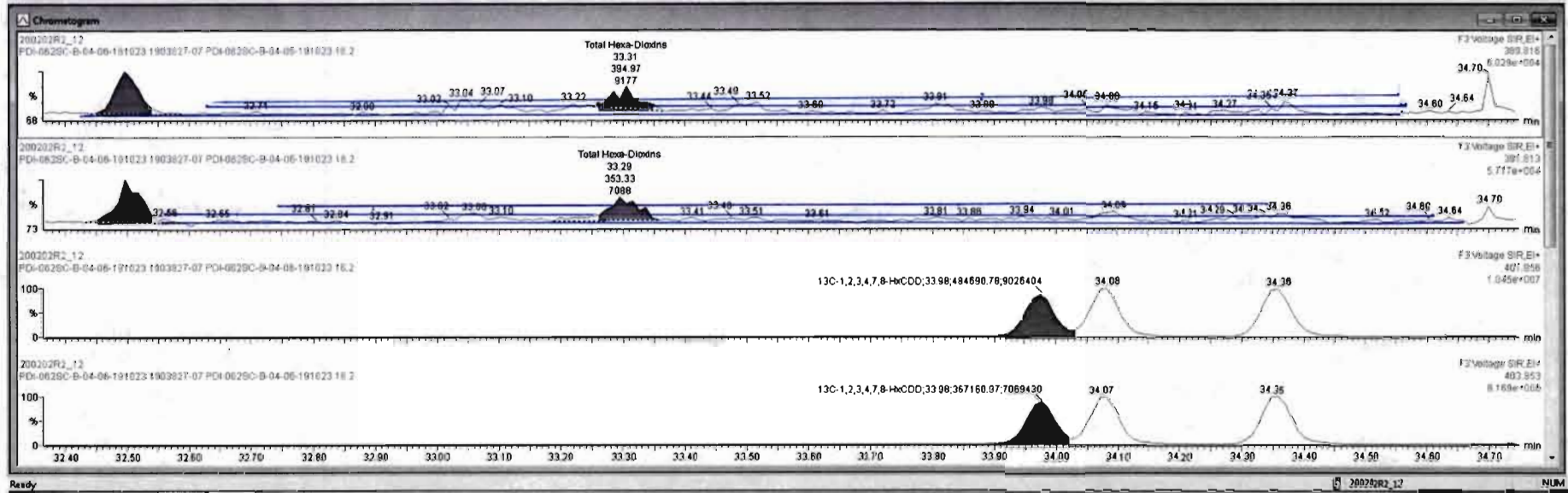
Targetlynx.XS - 20020212_12.qld*

File Edit View Display Processing Window Help

20020212_12 FROM 2707 PDI 0625C-B-04-08-191023 TO 31 72 20020212_12.qld

SI	Name	Conc.	DL	%Rec	EMPC	Abs Resp	RFP	RT	#	SL	RA	Y/N	RRT	Acq Date	Acq Time	1 st Ch Notes	ID	Sample Text	Factor1	SM	Cal File
36	13C-1,2,3,4-TCDD	199.698	0.190	100.0		1.513e8	1.000	25.03	36	36	0.802	NO	1.000	03-Feb-20	08:54:13	2805.234	1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1...
37	13C-1,2,3,4-TCDF	199.698	0.199	100.0		2.340e8	1.000	23.37	37	37	0.783	NO	1.000	03-Feb-20	08:54:13	3618.834	1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1...
38	13C-1,2,3,4,8-HxCDF	199.698	0.304	100.0		1.447e8	1.000	39.61	38	38	0.508	NO	1.000	03-Feb-20	08:54:13	7754.906	1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1...
39	Total Tetra-Dioxins		0.0731			0.968		39						03-Feb-20	08:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1...
40	Total Penta-Dioxins		0.0404			0.872		40						03-Feb-20	08:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1...
41	Total Hexa-Dioxins	0.402090	0.0889		0.495390	0.823		41						03-Feb-20	08:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1...
42	Total Hepta-Dioxins	1.37719	0.0856		1.37719	0.823		42						03-Feb-20	08:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1...
43	Total Tetra-Furans	0.336957	0.122		0.433752	0.802		43						03-Feb-20	08:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1...
44	1st Func. Penta-Furans		0.0295			0.907		44						03-Feb-20	08:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1...
45	Total Penta-Furans		0.0369			0.907		45						03-Feb-20	08:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1...
46	Total Hexa-Furans	0.0682582	0.0563		0.0682582	0.898		46						03-Feb-20	08:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1...
47	Total Hepta-Furans	0.000000	0.0370		0.102939	0.851		47						03-Feb-20	08:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1...

SI	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	nHy	Resp	Conc	EMPC
1	Total Hexa-Dioxins	33.31	8.177e3	7.099e3	3.850e2	3.533e2	1.12	NO	7.483e2	0.168	0.168
2	Total Hexa-Dioxins	32.90	1.895e4	1.307e4	7.411e2	5.818e2	1.27	NO	1.323e3	0.297	0.297



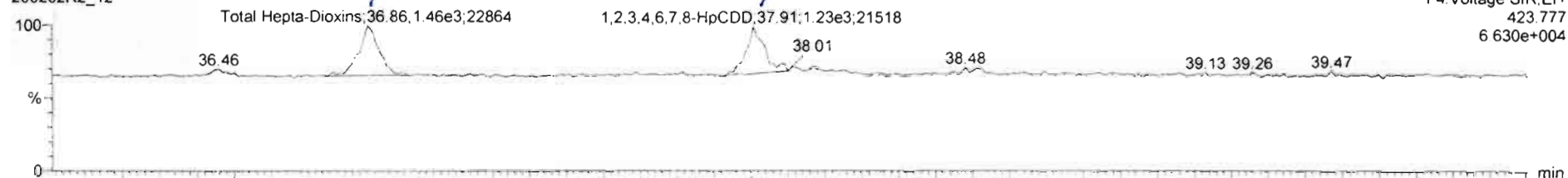
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Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time
Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_12, Date: 03-Feb-2020, Time: 06:54:13, ID: 1903827-07 PDI-062SC-B-04-06-191023 16.2, Description: PDI-062SC-B-04-06-191023

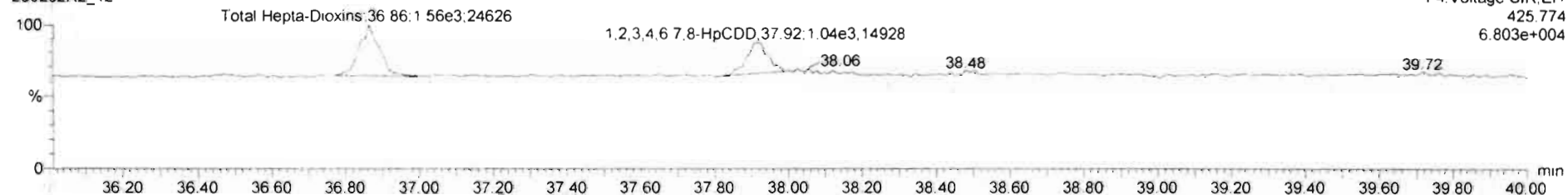
1,2,3,4,6,7,8-HpCDD

200202R2_12



F4: Voltage SIR, EI+
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6.630e+004

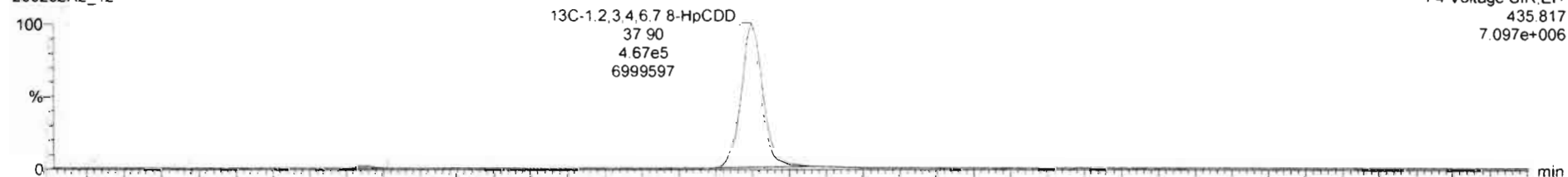
200202R2_12



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425.774
6.803e+004

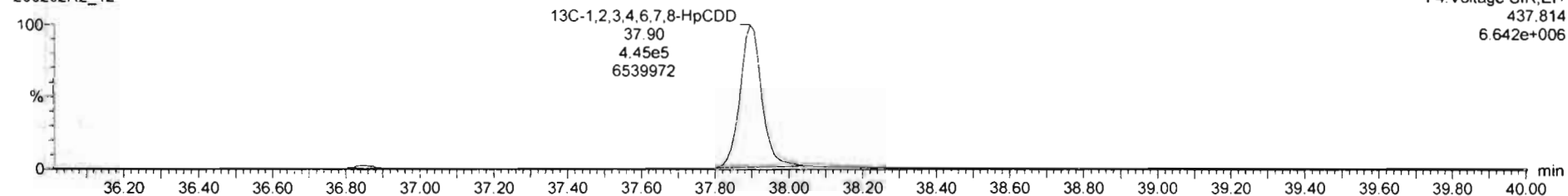
13C-1,2,3,4,6,7,8-HpCDD

200202R2_12



F4: Voltage SIR, EI+
435.817
7.097e+006

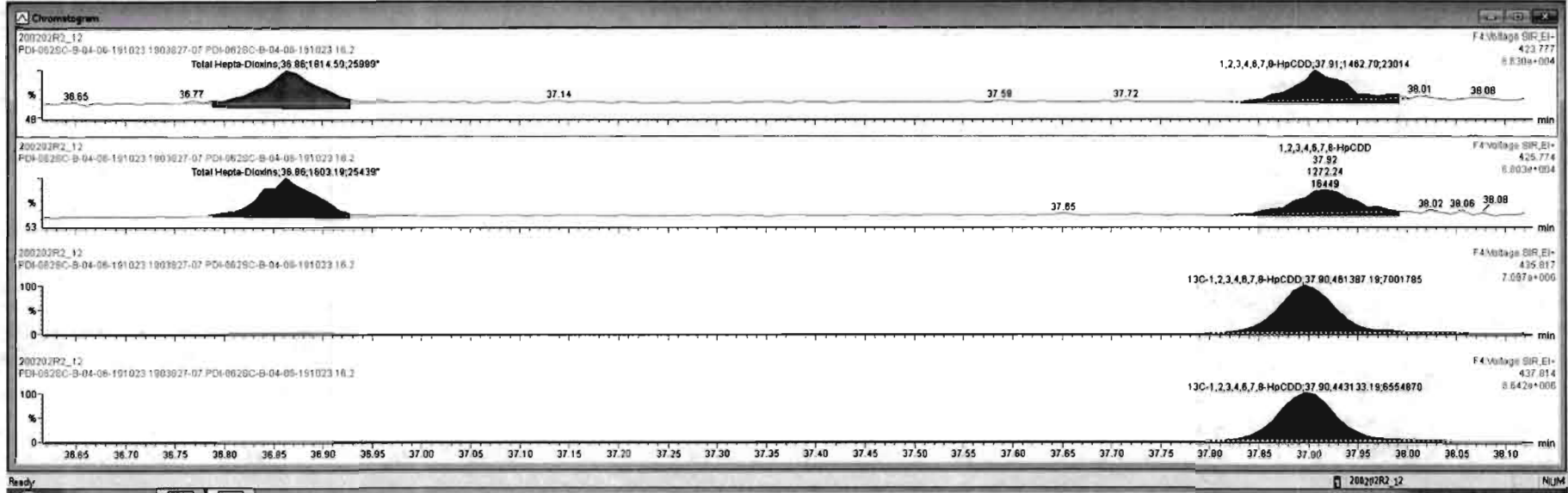
200202R2_12



F4: Voltage SIR, EI+
437.814
6.642e+006

Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	ISd	RA	Y/N	RRT	Acq Date	Acq Time	1* Chk Noise	ID	Sample Text	Factor1	S/M	Cal File
36	13C-1,2,3,4-TCDD	199.696	0.180	100.0		1.513e6	1.000	25.03	36	0.802	NO	1.000	03-Feb-20	08:54:13	2805.234	1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...
37	13C-1,2,3,4-TCDF	199.696	0.199	100.0		2.340e6	1.000	23.37	37	0.783	NO	1.000	03-Feb-20	08:54:13	3818.834	1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...
38	13C-1,2,3,4,6,8-HxCDF	199.696	0.304	100.0		1.447e6	1.000	33.51	38	0.508	NO	1.000	03-Feb-20	08:54:13	7754.986	1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...
39	Total Tetra-Dioxins		0.0731			0.898		39					03-Feb-20	08:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...
40	Total Penta-Dioxins		0.0404			0.972		40					03-Feb-20	08:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...
41	Total Hexa-Dioxins	0.465090	0.0866		0.465090	0.921		41					03-Feb-20	08:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...
42	Total Hepta-Dioxins	1.37719	0.0656		1.37719	0.923		42					03-Feb-20	08:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...
43	Total Tetra-Furans	0.336957	0.132		0.633757	0.802		43					03-Feb-20	08:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...
44	1st Func. Penta-Furans		0.0295			0.907		44					03-Feb-20	08:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...
45	Total Penta-Furans		0.0399			0.907		45					03-Feb-20	08:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...
46	Total Hexa-Furans	0.0862582	0.0563		0.0862582	0.898		46					03-Feb-20	08:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...
47	Total Hepta-Furans	0.000000	0.0370		0.102939	0.851		47					03-Feb-20	08:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	
1	1,2,3,4,6,7,8-HpCDD	37.91	2.301e4	1.645e4	1.483e3	1.272e3	1.15	NO	2.735e3	0.854	0.854
2	Total Hepta-Dioxins	36.86	2.286e4	2.463e4	1.452e3	1.561e3	0.84	NO	3.023e3	0.723	0.723

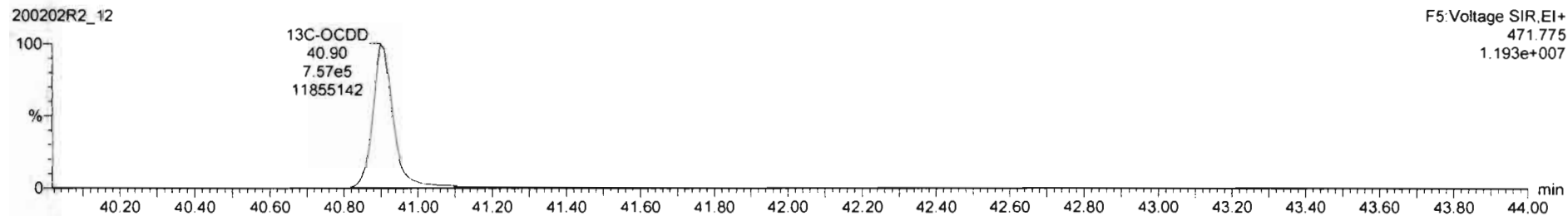
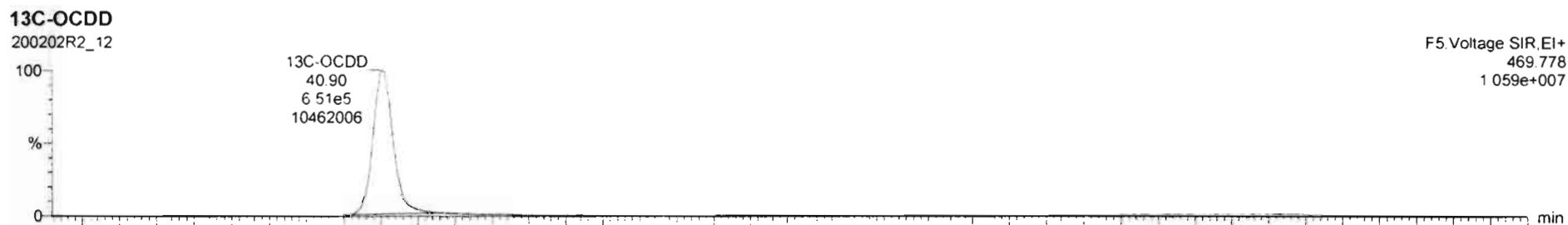
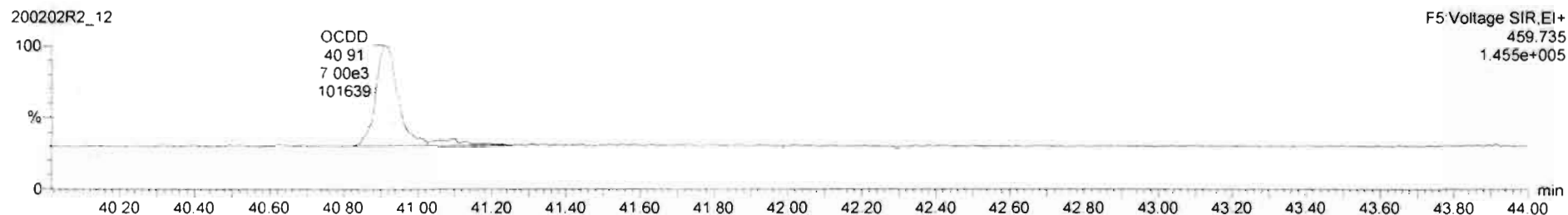


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Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time

Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_12, Date: 03-Feb-2020, Time: 06:54:13, ID: 1903827-07 PDI-062SC-B-04-06-191023 16.2, Description: PDI-062SC-B-04-06-191023

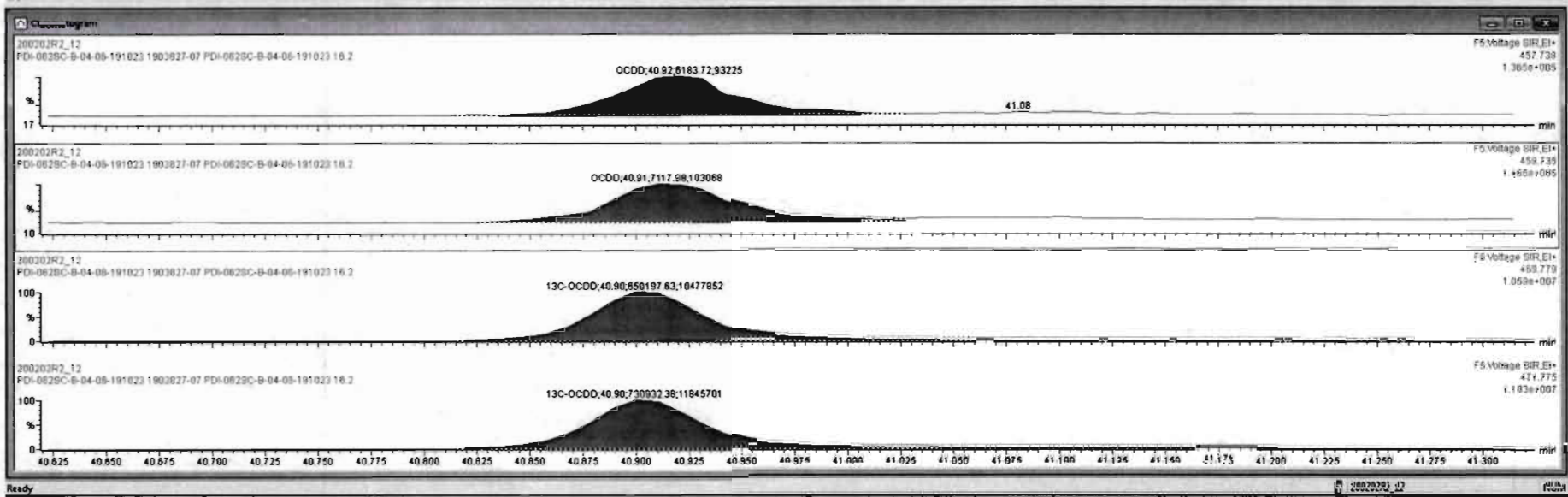


Targetlyn25 - 200203R2_12.qtd

File Edit View Display Processing Window Help

#	Name	Conc	DL	%Rec	EMPC	Abs Resp	RRF	RT	#1	ISF	RA	YN	RR1	AcqDate	AcqTime	1" Ctr Name	ID	Sample Test	Factor1	SM	Cal File
8	1,2,3,4,6,7,8-HpCDD	0.854140	0.0856		0.854140	2.735e3	0.923	37.91	6	23	1.150	NO	1.000	03-Feb-20	06:54:13	829.658	1903827-07...	PCI-0625C-B-04...	0.0	10.0	db5_1...
7	OCDD	3.84880	0.130		3.84880	1.330e4	0.975	40.92	7	24	0.988	NO	1.001	03-Feb-20	06:54:13	1003.583	1903827-07...	PCI-0625C-B-04...	0.0	10.0	db5_1...
8	2,3,7,8-TCDF		0.132				0.902		8	25				03-Feb-20	06:54:13	1391.740	1903827-07...	PCI-0625C-B-04...	0.0	10.0	db5_1...
9	1,2,3,7,8-PeCDF		0.0778				0.907		9	26				03-Feb-20	06:54:13	1624.026	1903827-07...	PCI-0625C-B-04...	0.0	10.0	db5_1...
10	2,3,4,7,8-PeCDF		0.0781				0.952		10	27				03-Feb-20	06:54:13	1624.026	1903827-07...	PCI-0625C-B-04...	0.0	10.0	db5_1...
11	1,2,3,4,7,8-HxCDF		0.0577				0.862		11	28				03-Feb-20	06:54:13	804.102	1903827-07...	PCI-0625C-B-04...	0.0	10.0	db5_1...
12	1,2,3,6,7,8-HxCDF		0.0520				0.841		12	29				03-Feb-20	06:54:13	804.102	1903827-07...	PCI-0625C-B-04...	0.0	10.0	db5_1...
13	2,3,4,6,7,8-HxCDF		0.0526				0.898		13	30				03-Feb-20	06:54:13	804.102	1903827-07...	PCI-0625C-B-04...	0.0	10.0	db5_1...
14	1,2,3,7,8,9-HxCDF	0.0882582	0.0739		0.0882582	3.554e2	0.858	34.73	14	31	1.164	NO	1.001	03-Feb-20	06:54:13	804.102	1903827-07...	PCI-0625C-B-04...	0.0	10.0	db5_1...
15	1,2,3,4,6,7,8-HpCDF	0.123681	0.0685		0.102839	4.375e2	0.851	36.48	15	32	0.737	YES	1.000	03-Feb-20	06:54:13	596.385	1903827-07...	PCI-0625C-B-04...	0.0	10.0	db5_1...
16	1,2,3,4,7,8,9-HpCDF	0.0884	0.0684				0.980	16	33					03-Feb-20	06:54:13	596.385	1903827-07...	PCI-0625C-B-04...	0.0	10.0	db5_1...
17	OCDF	0.145271	0.0863		0.134868	4.497e2	0.806	41.11	17	34	1.036	YES	1.001	03-Feb-20	06:54:13	761.631	1903827-07...	PCI-0625C-B-04...	0.0	10.0	db5_1...

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

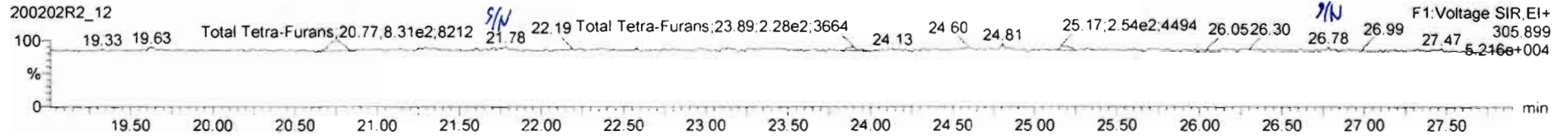
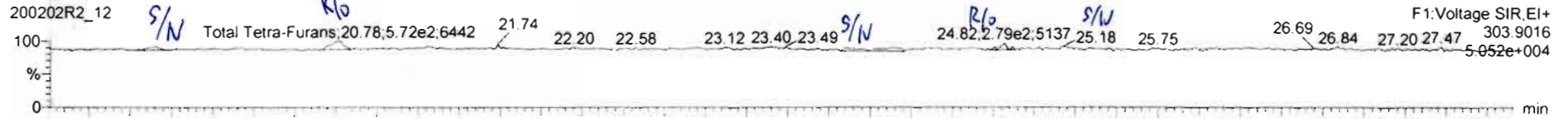


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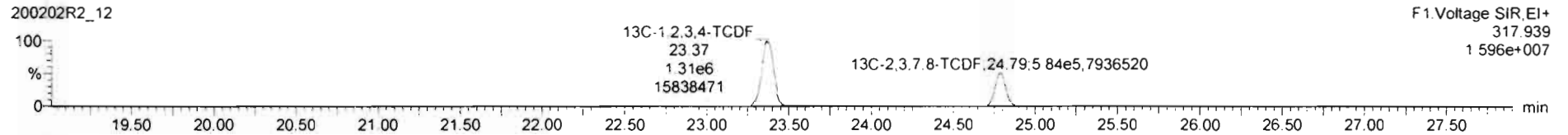
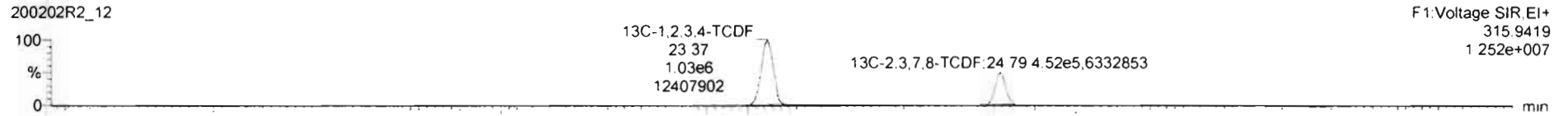
Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time
Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_12, Date: 03-Feb-2020, Time: 06:54:13, ID: 1903827-07 PDI-062SC-B-04-06-191023 16.2, Description: PDI-062SC-B-04-06-191023

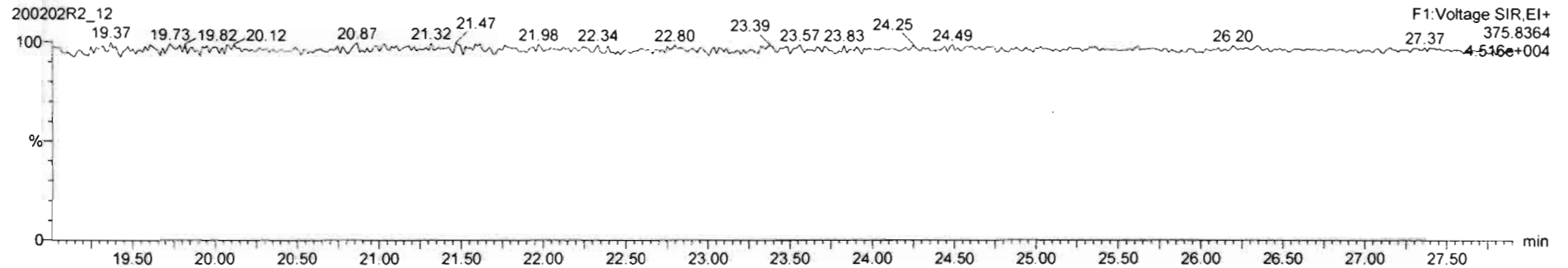
2,3,7,8-TCDF



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



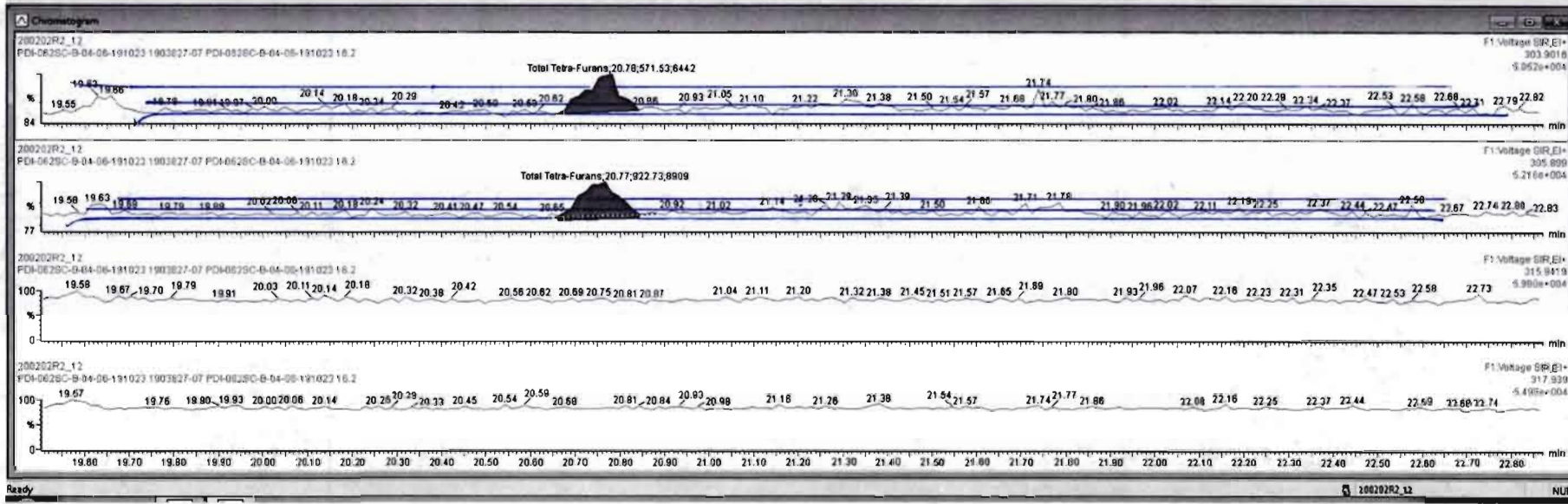
DPE1



TargetLynx ES - 200202R2_12.apl
 File Edit View Display Processing Window Help

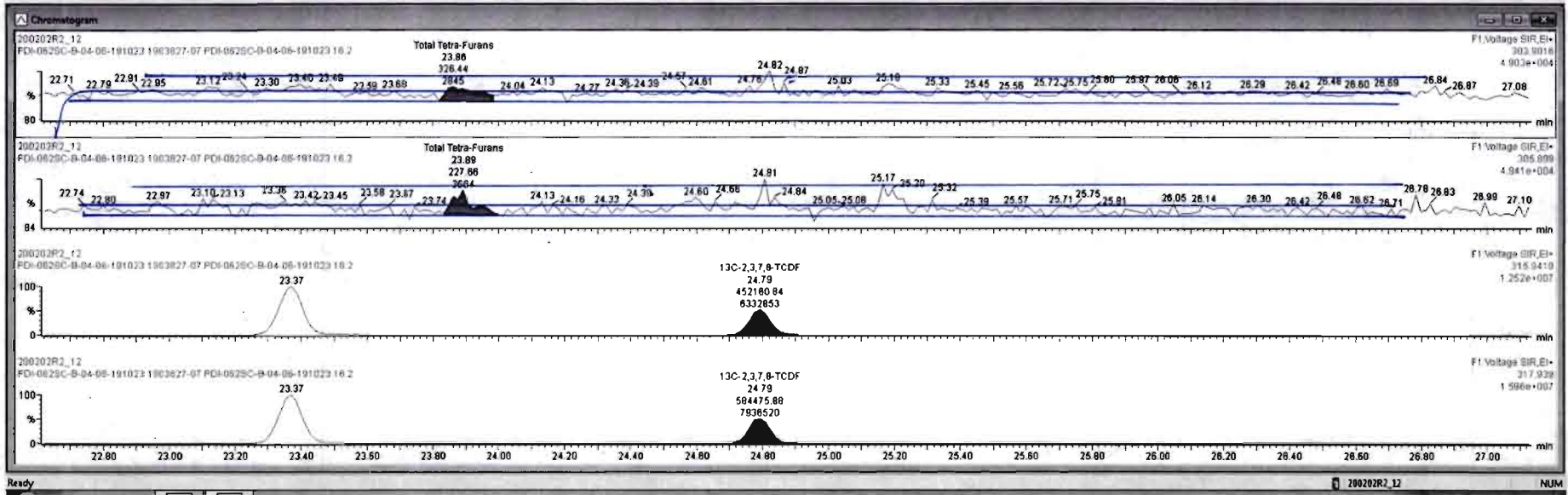
Name	Conc.	DL	%Rec	EMPC	Abs Resp	RF	RT	#	ISF	RA	Y/N	PRT	Acq Date	Acq Time	* Or Noise ID	Sample Test	Factor1	SN	Cal File	
13C-1,2,3,4,5,6-HxCDF	199.888	0.304	100.0		1.447e5	1.000	33.51	38	38	0.508	NO	1.000	03-Feb-20	06:54:13	7754.998	1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1
Total Tetra-Dioxine		0.0731			0.998			39					03-Feb-20	06:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1
Total Penta-Dioxine		0.0404			0.972			40					03-Feb-20	06:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1
Total Hexa-Dioxine	0.485090	0.0989		0.485000	0.921			41					03-Feb-20	06:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1
Total Hepta-Dioxine	1.47160	0.0956		1.47200	0.923			42					03-Feb-20	06:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1
Total Tetra-Furans	0.000000	0.3913		0.412000	0.802			43					03-Feb-20	06:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1
1st Func. Penta-Furans		0.0295			0.907			44					03-Feb-20	06:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1
Total Penta-Furans		0.0389			0.907			45					03-Feb-20	06:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1
Total Hexa-Furans	0.0862582	0.0563		0.0860000	0.898			46					03-Feb-20	06:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1
Total Hepta-Furans	0.000000	0.0370		0.103000	0.851			47					03-Feb-20	06:54:13		1903827-07	PDI-0625C-B-04...	0.0	10.0	db5_1
PPK1								48								1903827-07		1		
PPK2								48								1903827-07		1		

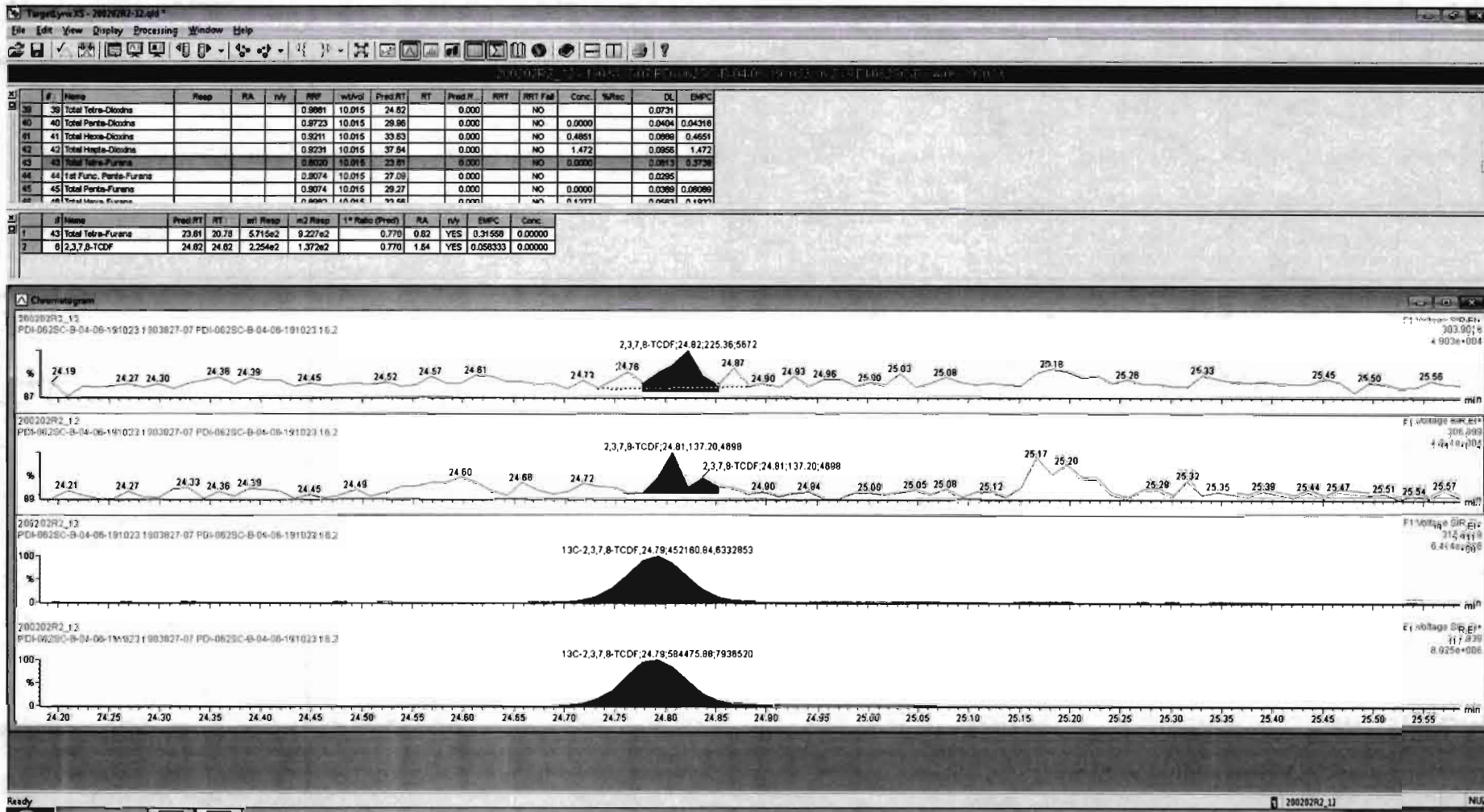
Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1 Total Tetra-Furans	23.86	2.845e3	3.884e3	3.264e2	2.277e2	1.43	YES	0.000e0	0.000	0.0970
2 Total Tetra-Furans	20.78	6.442e3	8.909e3	5.715e2	9.227e2	0.82	YES	0.000e0	0.000	0.316



#	Name	Conc	DL	UFrac	EMPC	Alta Resp	RPF	RT	#	ISA	RA	Y/N	RRT	AcqDate	AcqTime	1 st Cpy Name	ID	Sample Test	Factor1	SM	CM/No	
38	13C-1,2,3,4,8,9-HsCDF	199.698	0.304	100.0		1.447e6	1.000	33.51	38	38	0.508	NO	1.000	03-Feb-20	06:54:13	7754.999	1903827-07	PO4-0625C-B-04...	0.0	10.0	db5_1...	
39	Total Tetra-Dioxins	0.0731					0.998		39					03-Feb-20	06:54:13		1903827-07	PO4-0625C-B-04...	0.0	10.0	db5_1...	
40	Total Penta-Dioxins	0.0404					0.972		40					03-Feb-20	06:54:13		1903827-07	PO4-0625C-B-04...	0.0	10.0	db5_1...	
41	Total Hexa-Dioxins	0.485090	0.0889		0.485090		0.921		41					03-Feb-20	06:54:13		1903827-07	PO4-0625C-B-04...	0.0	10.0	db5_1...	
42	Total Hepta-Dioxins	1.47160	0.0958		1.47200		0.923		42					03-Feb-20	06:54:13		1903827-07	PO4-0625C-B-04...	0.0	10.0	db5_1...	
43	Total Tetra-Furans	0.000000	0.0013		0.012000		0.862		43					03-Feb-20	06:54:13		1903827-07	PO4-0625C-B-04...	0.0	10.0	db5_1...	
44	1st Func. Penta-Furans	0.0295					0.907		44					03-Feb-20	06:54:13		1903827-07	PO4-0625C-B-04...	0.0	10.0	db5_1...	
45	Total Penta-Furans	0.0369					0.907		45					03-Feb-20	06:54:13		1903827-07	PO4-0625C-B-04...	0.0	10.0	db5_1...	
46	Total Hexa-Furans	0.0062582	0.0563		0.0060000		0.899		46					03-Feb-20	06:54:13		1903827-07	PO4-0625C-B-04...	0.0	10.0	db5_1...	
47	Total Hepta-Furans	0.000000	0.0370		0.100000		0.851		47					03-Feb-20	06:54:13		1903827-07	PO4-0625C-B-04...	0.0	10.0	db5_1...	
48	PFK1								48													1
49	PFK2								49													1

#	Name	RT	int Height	std Height	int Resp	std Resp	RA	int/y	Resp	Conc	EMPC
1	Total Tetra-Furans	23.86	2.645e3	3.084e3	3.284e2	2.277e2	1.43	YES	0.000e0	0.000	0.9870
2	Total Tetra-Furans	20.78	6.442e3	8.509e3	5.715e2	9.227e2	0.82	YES	0.000e0	0.000	0.318



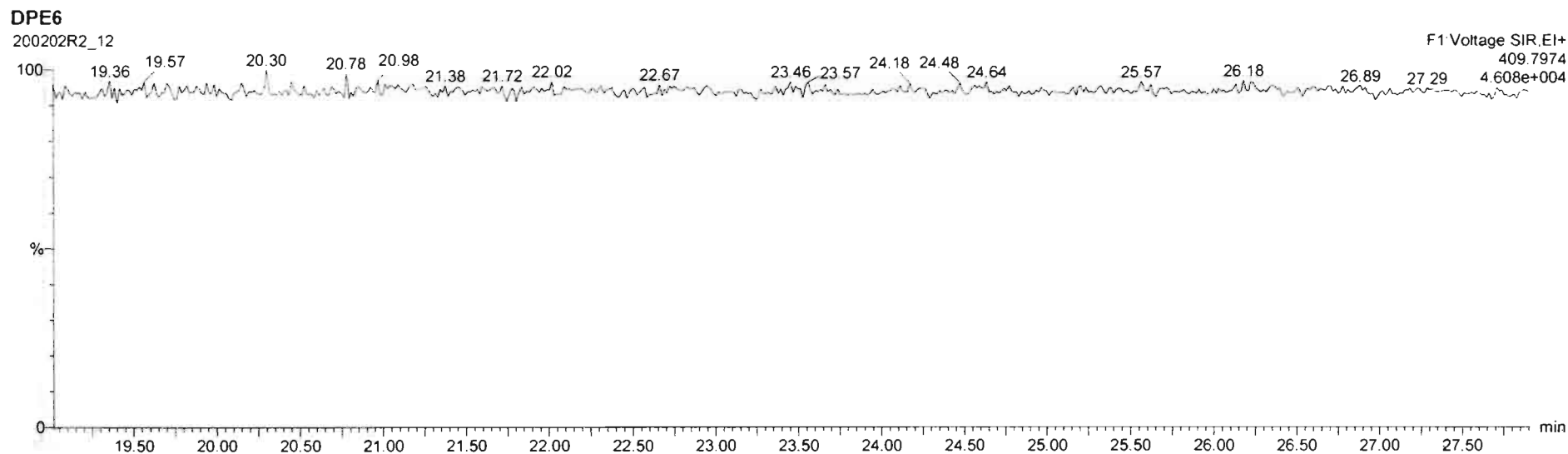
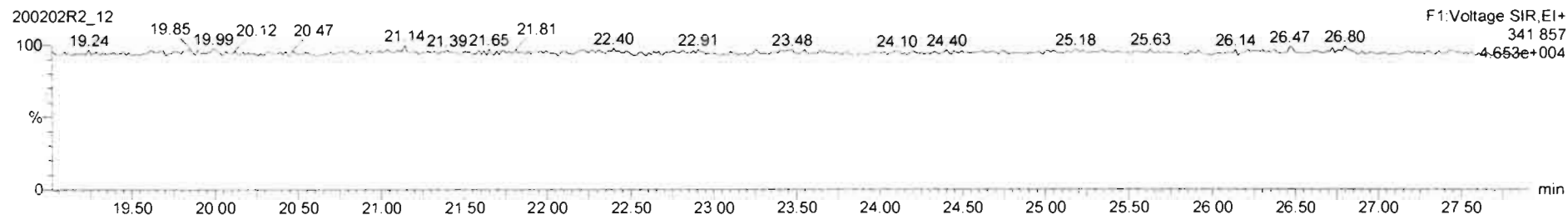
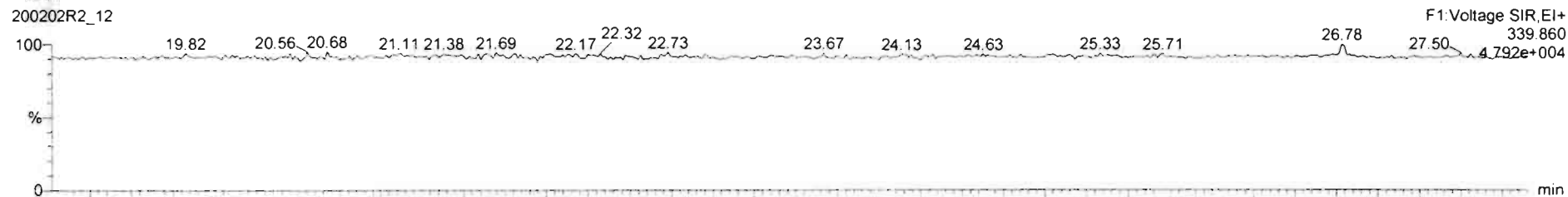


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Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time
Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_12, Date: 03-Feb-2020, Time: 06:54:13, ID: 1903827-07 PDI-062SC-B-04-06-191023 16.2, Description: PDI-062SC-B-04-06-191023

1st Func. Penta-Furans

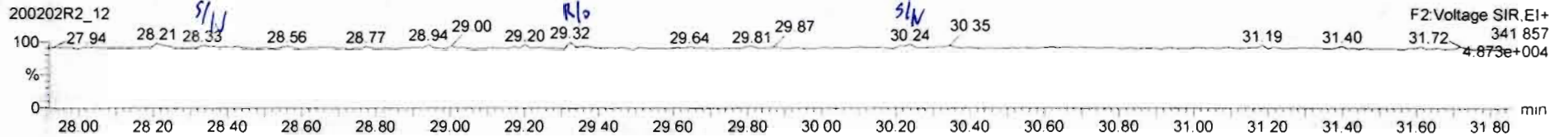


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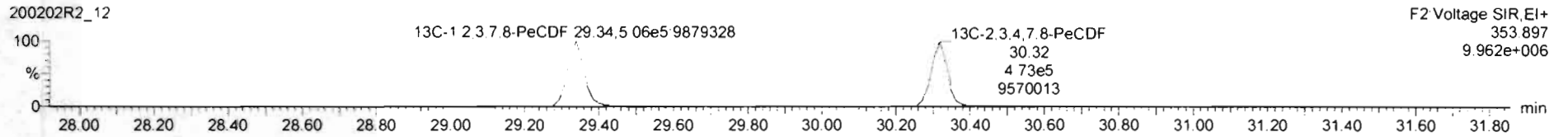
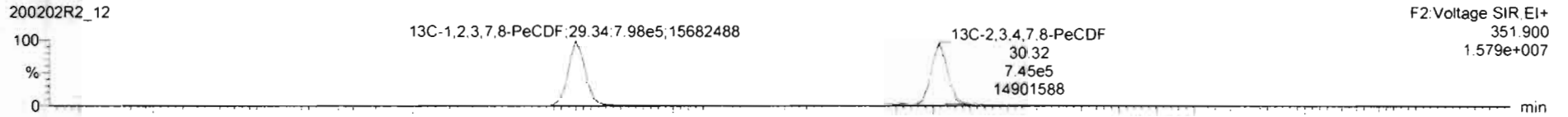
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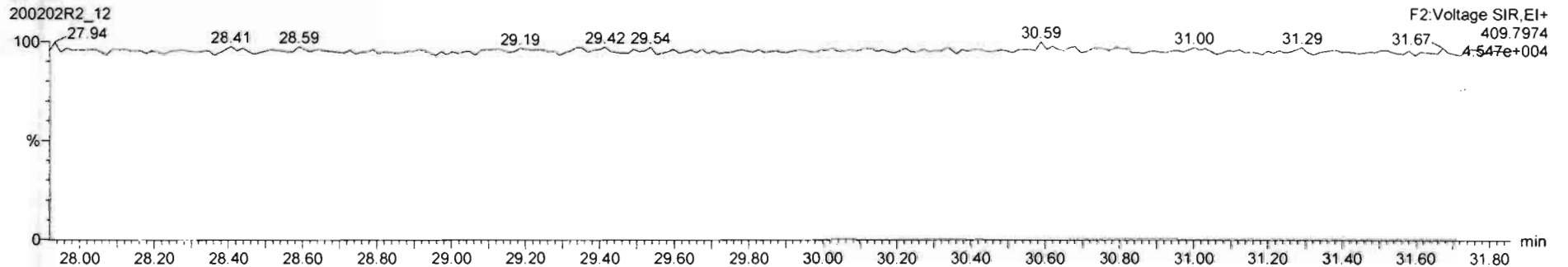
1,2,3,7,8-PeCDF



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

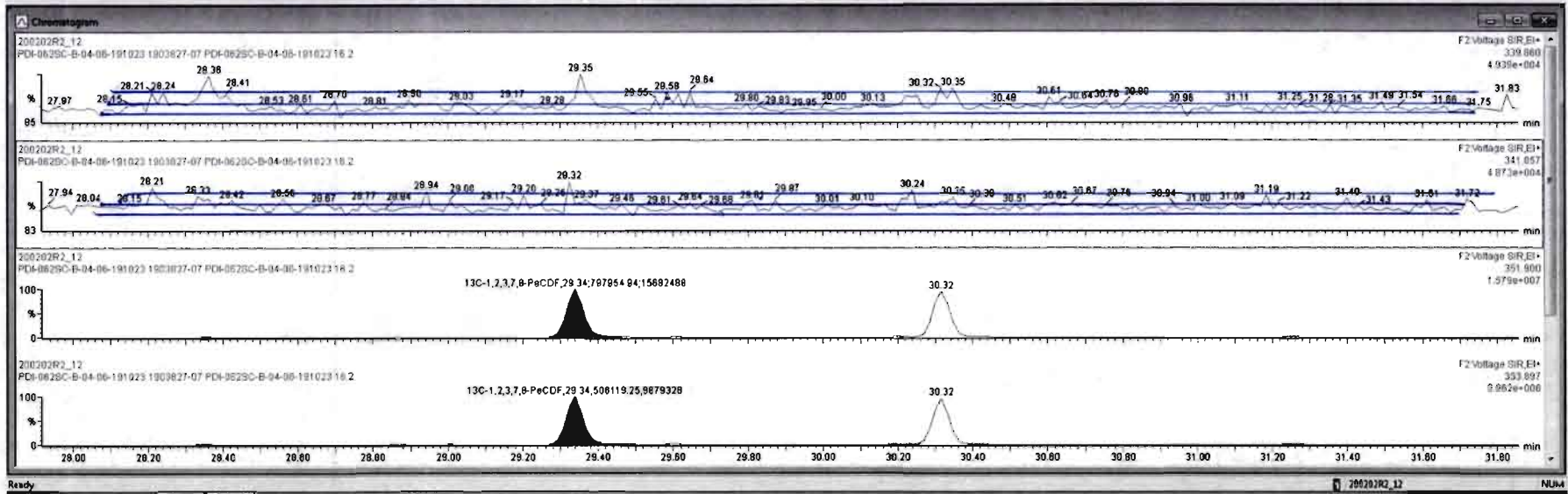


DPE2



Name	Conc	OL	%Rec	EMPC	Area Resp	Y/F	RT	#	ISA	RA	Y/N	RT1	Acq Date	Acq Time	1 st Ch Name	D	Sample Inj	Factor1	Str	Cal File	
13C-1,2,3,7,8-PeCDF	1.00000	0.304	100.0		1.447e8	1.000	33.51	38		0.500	NO	1.000	03-Feb-20	06:54:13	7754.998	1903827-07	PCI-0625C-B-04	0.0	10.0	ds_1...	
Total Tetra-Dioxins	0.0731				0.968			39					03-Feb-20	06:54:13		1903827-07	PCI-0625C-B-04	0.0	10.0	ds_1...	
Total Penta-Dioxins	0.0404				0.972			40					03-Feb-20	06:54:13		1903827-07	PCI-0625C-B-04	0.0	10.0	ds_1...	
Total Hexa-Dioxins	0.46090	0.0869	0.46090		0.921			41					03-Feb-20	06:54:13		1903827-07	PCI-0625C-B-04	0.0	10.0	ds_1...	
Total Hepta-Dioxins	1.47160	0.0956	1.47160		0.923			42					03-Feb-20	06:54:13		1903827-07	PCI-0625C-B-04	0.0	10.0	ds_1...	
Total Tetra-Furans	0.00000	0.0613	0.373613		0.802			43					03-Feb-20	06:54:13		1903827-07	PCI-0625C-B-04	0.0	10.0	ds_1...	
1st Func. Penta-Furans	0.0295				0.907			44					03-Feb-20	06:54:13		1903827-07	PCI-0625C-B-04	0.0	10.0	ds_1...	
Total Hexa-Furans	0.00000	0.0269			0.907			45					03-Feb-20	06:54:13		1903827-07	PCI-0625C-B-04	0.0	10.0	ds_1...	
Total Hexa-Furans	0.082502	0.0563	0.082502		0.898			46					03-Feb-20	06:54:13		1903827-07	PCI-0625C-B-04	0.0	10.0	ds_1...	
Total Hepta-Furans	0.00000	0.0370	0.102939		0.851			47					03-Feb-20	06:54:13		1903827-07	PCI-0625C-B-04	0.0	10.0	ds_1...	
PK1								48													
PK2								49													

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	RY	Resp	Conc	EMPC

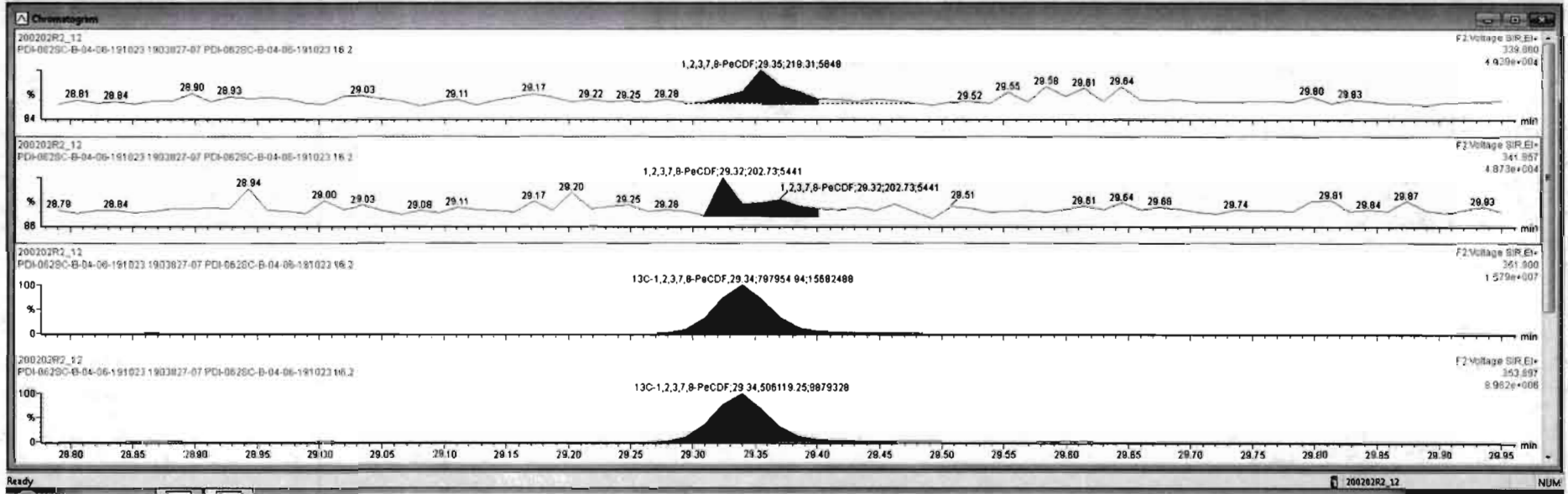


Targetlynx32 - 20020212.djv

File Edit View Display Processing Window Help

#	Name	Conc	DL	%Rec	EMPC	1/Int Resp	RP	RT	#	CF	RA	Y/N	RT1	Acq Date	Acq Time	1° Ch Name	D	Sample Test	Factor1	SM	Cal File	
38	13C-1,2,3,4,5,9-HxCDF	199.698	0.304	100.0		1.44766	1.000	33.51	36	36	0.508	NO	1.000	03-Feb-20	06:54:13	7754.998	1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...	
39	Total Tetra-Dioxins		0.0731				0.988		39					03-Feb-20	06:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...	
40	Total Penta-Dioxins		0.0404				0.972		40					03-Feb-20	06:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...	
41	Total Hexa-Dioxins	0.485090	0.0869		0.485090		0.921		41					03-Feb-20	06:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...	
42	Total Hepta-Dioxins	1.47160	0.0956		1.47160		0.923		42					03-Feb-20	06:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...	
43	Total Tetra-Furans	0.000000	0.0613		0.373913		0.802		43					03-Feb-20	06:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...	
44	1st Func. Penta-Furans		0.0295				0.907		44					03-Feb-20	06:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...	
45	Total Penta-Furans	0.000000	0.0389		0.060918		0.907		45					03-Feb-20	06:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...	
46	Total Hexa-Furans	0.0882582	0.0563		0.0882582		0.899		46					03-Feb-20	06:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...	
47	Total Hepta-Furans	0.000000	0.0370		0.102939		0.851		47					03-Feb-20	06:54:13		1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...	
48	PFK1								48											1		
49	PFK2								49											1		

#	Name	RT	Int Height	m2 Height	Int Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	1,2,3,7,8-PeCDF	29.35	5.840e3	5.441e3	2.193e2	2.027e2	1.08	YES	4.220e2	0.000	0.0609



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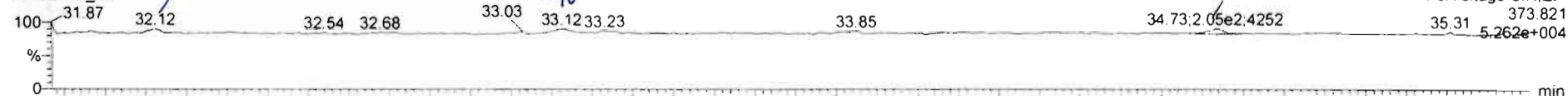
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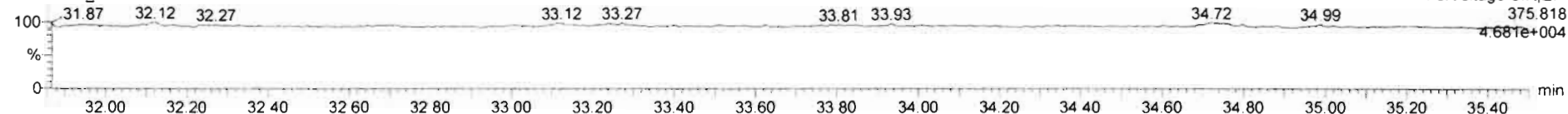
Name: 200202R2_12, Date: 03-Feb-2020, Time: 06:54:13, ID: 1903827-07 PDI-062SC-B-04-06-191023 16.2, Description: PDI-062SC-B-04-06-191023

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

200202R2_12

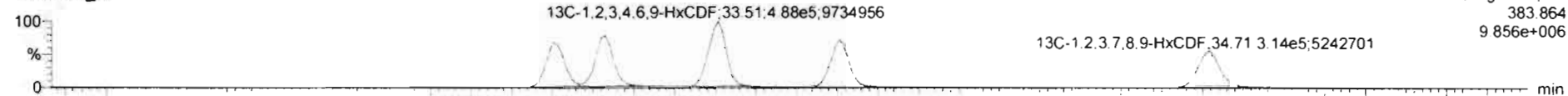


200202R2_12

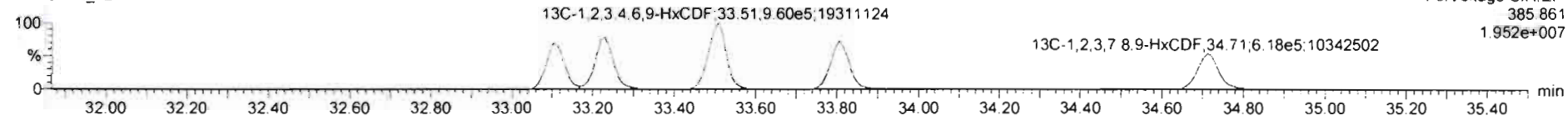


13C-1,2,3,4,7,8-HxCDF

200202R2_12

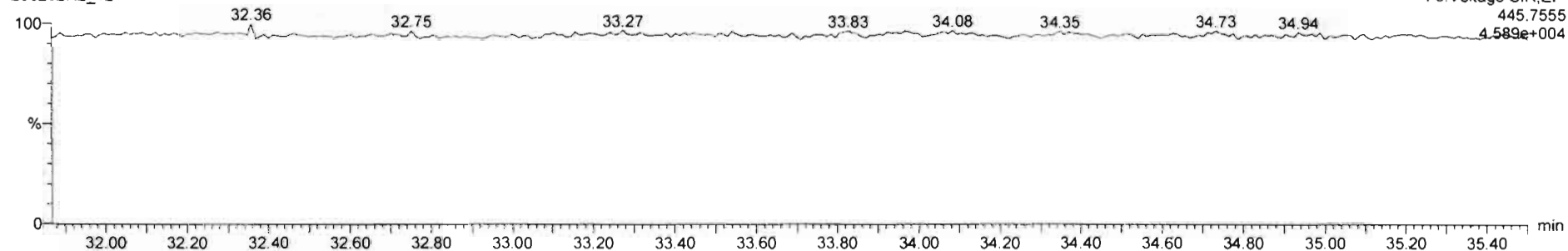


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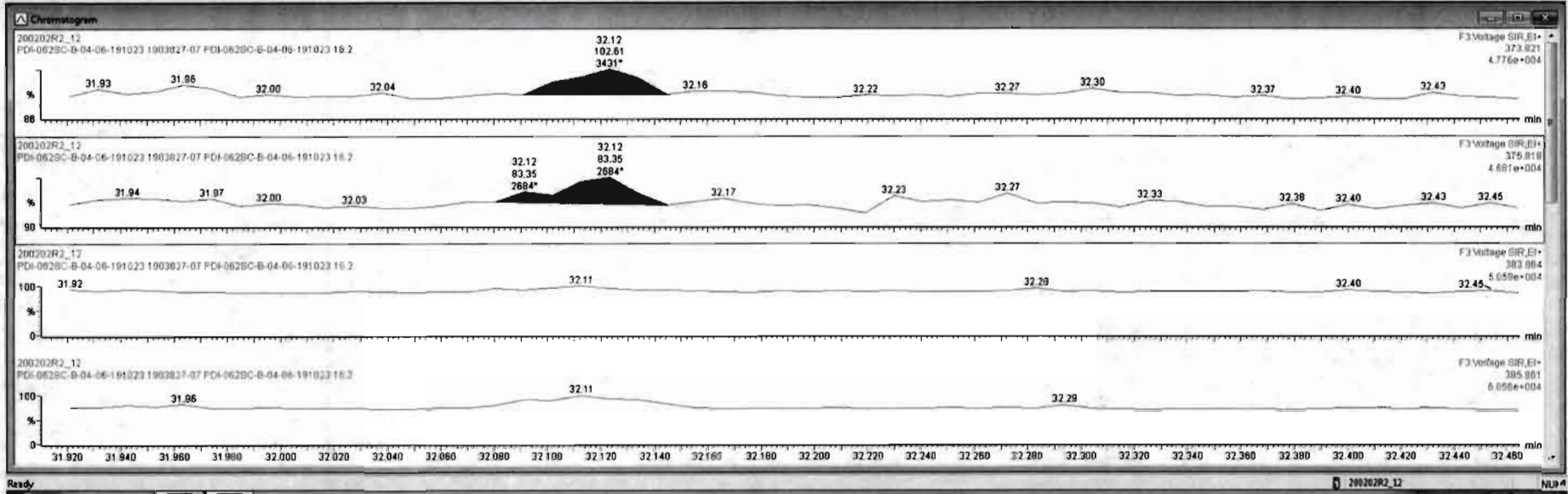
DPE3

200202R2_12



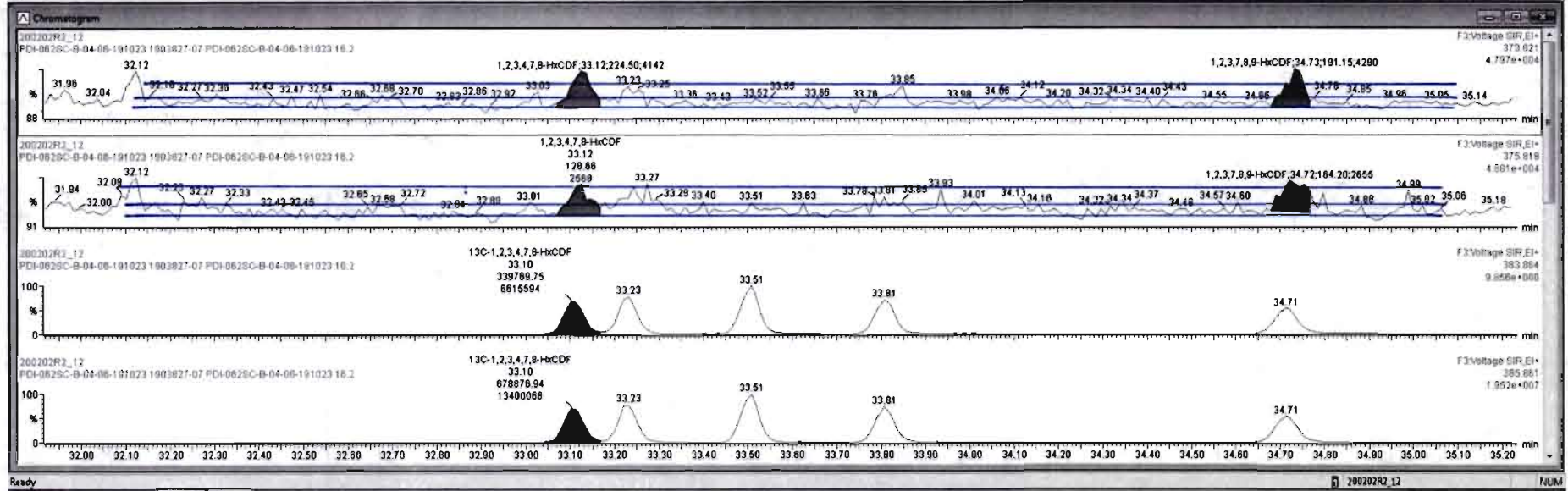
#	Name	Conc.	DL	%Rec	EWPC	Abs Resp	RRF	RT	#	ISF	RA	YN	RRF	Acq Date	Acq Time	1* Chk No	ID	Sample Test	Factor1	SW	Cal File	
38	1,2,3,4,6,8-HxCDF	199.898	0.304	100.0		1.44766	1.000	33.51	38	30	0.508	NO	1.000	03-Feb-20	06:54:13	7754.906	1903827-07	POI-0625C-B-04...	0.0	10.0	db5_1...	
39	Total Tetra-Dioxins		0.0731			0.998		39						03-Feb-20	06:54:13		1903827-07	POI-0625C-B-04...	0.0	10.0	db5_1...	
40	Total Penta-Dioxins		0.0404			0.872		40						03-Feb-20	06:54:13		1903827-07	POI-0625C-B-04...	0.0	10.0	db5_1...	
41	Total Hexa-Dioxins	0.485090	0.0889		0.485090	0.821		41						03-Feb-20	06:54:13		1903827-07	POI-0625C-B-04...	0.0	10.0	db5_1...	
42	Total Hepta-Dioxins	1.47160	0.0958		1.47160	0.923		42						03-Feb-20	06:54:13		1903827-07	POI-0625C-B-04...	0.0	10.0	db5_1...	
43	Total Tetra-Furans	0.000000	0.0613		0.373813	0.802		43						03-Feb-20	06:54:13		1903827-07	POI-0625C-B-04...	0.0	10.0	db5_1...	
44	1st Func. Penta-Furans		0.0285			0.907		44						03-Feb-20	06:54:13		1903827-07	POI-0625C-B-04...	0.0	10.0	db5_1...	
45	Total Penta-Furans	0.000000	0.0369		0.0008916	0.977		45						03-Feb-20	06:54:13		1903827-07	POI-0625C-B-04...	0.0	10.0	db5_1...	
46	Total Hexa-Furans	0.090290	0.0983		0.183781	0.888		46						03-Feb-20	06:54:13		1903827-07	POI-0625C-B-04...	0.0	10.0	db5_1...	
47	Total Hepta-Furans	0.000000	0.0370		0.102939	0.851		47						03-Feb-20	06:54:13		1903827-07	POI-0625C-B-04...	0.0	10.0	db5_1...	
48	PFK1							48												1		
49	PFK2							49												1		

#	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	dy	Resp	Conc.	EWPC
1	1,2,3,7,8-HxCDF	34.73	4.290e3	2.855e3	1.812e2	1.642e2	1.18	NO	3.554e2	0.0963	0.0963
2	1,2,3,4,7,8-HxCDF	33.12	4.142e3	2.988e3	2.245e2	1.287e2	1.74	YES	3.532e2	0.000	0.0855



Name	Conc.	DL	%Rec	EMPC	Abs Resp	RF	RT	#	ISF	RA	Y/N	RRT	Acq Date	Acq Time	1 st Ch Notes	D	Sample Test	Factor1	SM	Cal File	
13C-1,2,3,4,6,8-HxCDF	199.698	0.304	100.0		1.447e6	1.000	33.51	38	38	0.508	NO	1.000	03-Feb-20	06:54:13	7754.898		1903827-07... PDI-0625C-B-04	0.0	10.0	abs_1...	
Total Tetra-Chlorine	0.0731				0.988		33						03-Feb-20	06:54:13			1903827-07... PDI-0625C-B-04	0.0	10.0	abs_1...	
Total Penta-Chlorine	0.0404				0.972		40						03-Feb-20	06:54:13			1903827-07... PDI-0625C-B-04	0.0	10.0	abs_1...	
Total Hexa-Chlorine	0.485090	0.0889		0.485090	0.921		41						03-Feb-20	06:54:13			1903827-07... PDI-0625C-B-04	0.0	10.0	abs_1...	
Total Hepta-Chlorine	1.47160	0.0856		1.47160	0.923		42						03-Feb-20	06:54:13			1903827-07... PDI-0625C-B-04	0.0	10.0	abs_1...	
Total Tetra-Furans	0.000000	0.0613		0.373913	0.802		43						03-Feb-20	06:54:13			1903827-07... PDI-0625C-B-04	0.0	10.0	abs_1...	
1st Func. Penta-Furans		0.0285			0.907		44						03-Feb-20	06:54:13			1903827-07... PDI-0625C-B-04	0.0	10.0	abs_1...	
Total Penta-Furans	0.000000	0.0369		0.060916	0.907		45						03-Feb-20	06:54:13			1903827-07... PDI-0625C-B-04	0.0	10.0	abs_1...	
Total Hexa-Furans	0.000000	0.0083		0.113791	0.889		46						03-Feb-20	06:54:13			1903827-07... PDI-0625C-B-04	0.0	10.0	abs_1...	
Total Hepta-Furans	0.000000	0.0370		0.102939	0.851		47						03-Feb-20	06:54:13			1903827-07... PDI-0625C-B-04	0.0	10.0	abs_1...	
PFK1							48												1		
PFK2							49												1		

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Resp	Conc.	EMPC
1,2,3,7,8-HxCDF	34.73	4.280e3	2.655e3	1.912e2	1.842e2	1.18	NO	3.554e2	0.0983	0.0983
1,2,3,4,7,8-HxCDF	33.12	4.142e3	2.588e3	2.246e2	1.267e2	1.74	YES	3.532e2	0.000	0.0865



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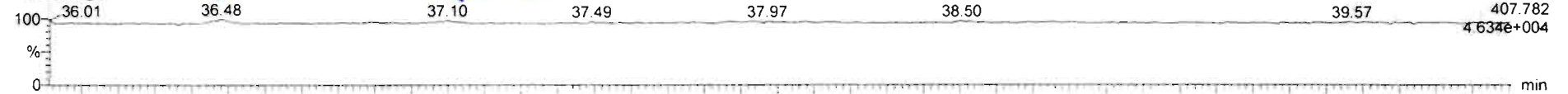
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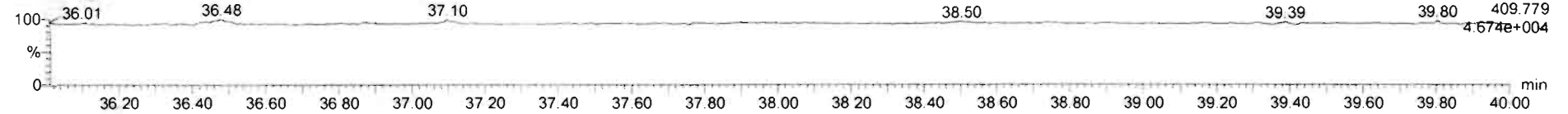
Name: 200202R2_12, Date: 03-Feb-2020, Time: 06:54:13, ID: 1903827-07 PDI-062SC-B-04-06-191023 16.2, Description: PDI-062SC-B-04-06-191023

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

200202R2_12

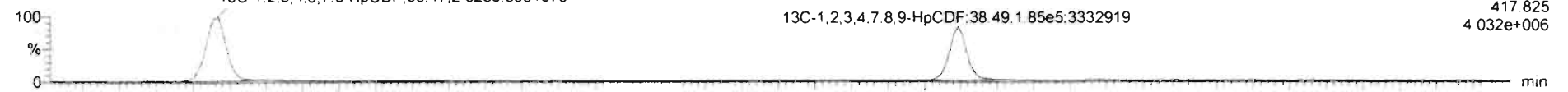


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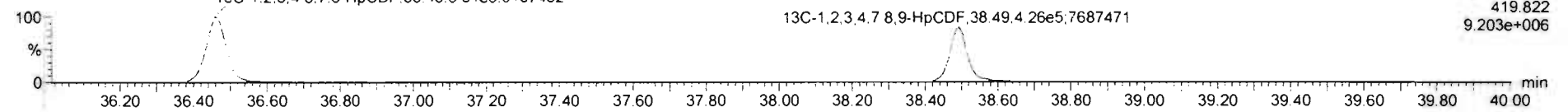


13C-1,2,3,4,6,7,8-HpCDF

200202R2_12

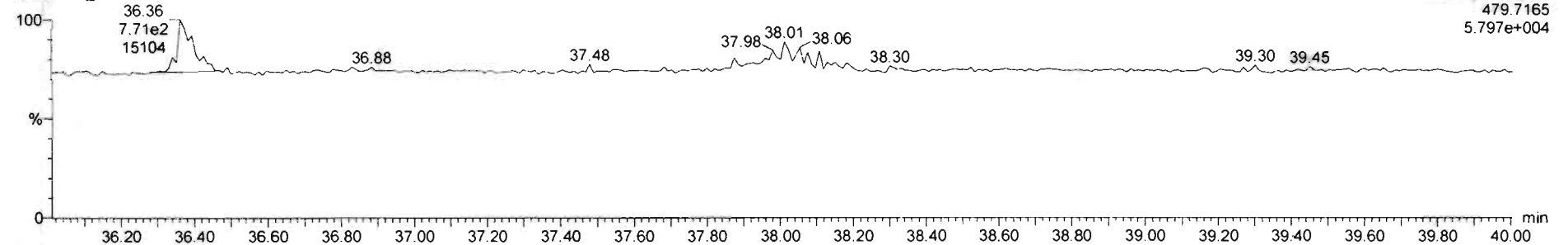


200202R2_12



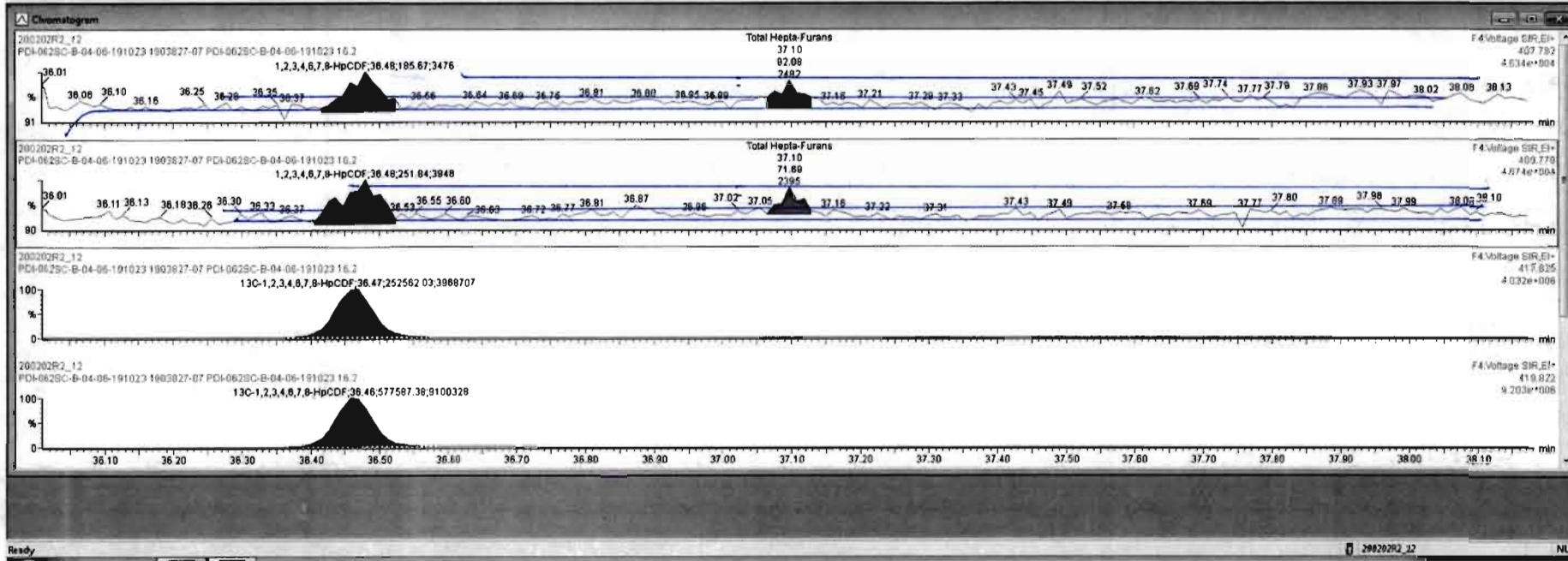
DPE4

200202R2_12



#	Name	Rate	RA	n/y	PPP	mVol	Pred RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
1	1,2,3,7,8-TCDD				0.9991	10.015	25.71		1.001		NO			0.132	
2	1,2,3,7,8-PeCDD				0.9723	10.015	30.64		1.001		NO			0.0903	
3	1,2,3,4,7,8-HxCDD				1.0709	10.015	33.99		1.000		NO			0.0650	
4	1,2,3,6,7,8-HxCDD				0.9211	10.015	34.08		1.000		NO			0.0838	
5	1,2,3,7,8,9-HxCDD				0.9182	10.015	34.39		1.001		NO			0.0659	
6	1,2,3,4,6,7,8-HpCDD	2.73e3	1.15	NO	0.9231	10.015	37.91	37.91	1.000	1.000	NO	0.6541		0.0956	0.8541
7	OCDD	1.33e4	0.87	NO	0.8748	10.015	40.90	40.92	1.000	1.001	NO	3.947		0.120	3.947

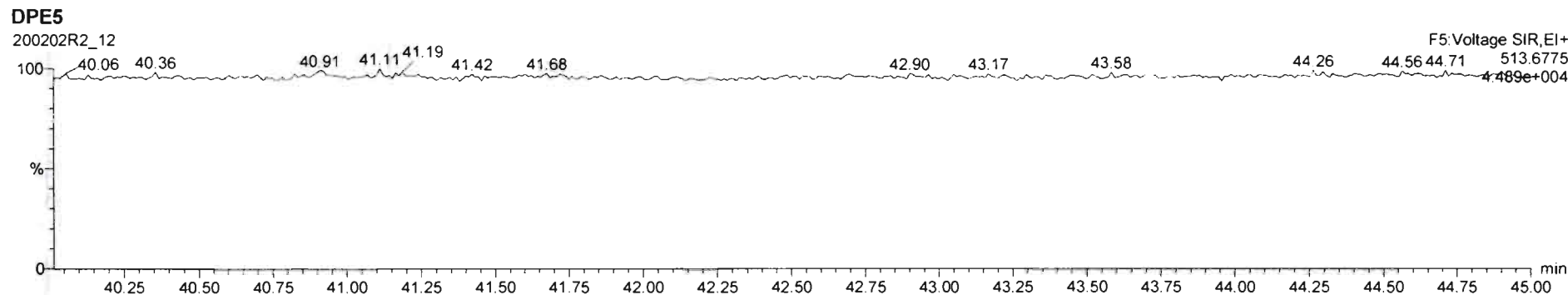
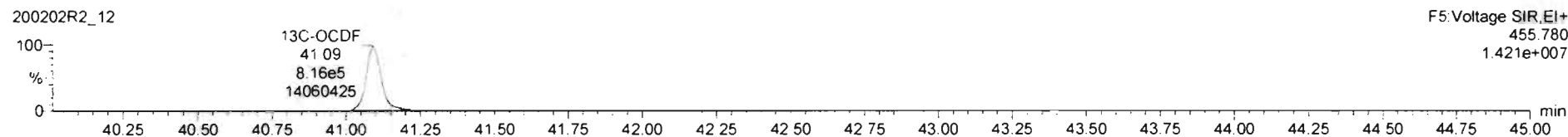
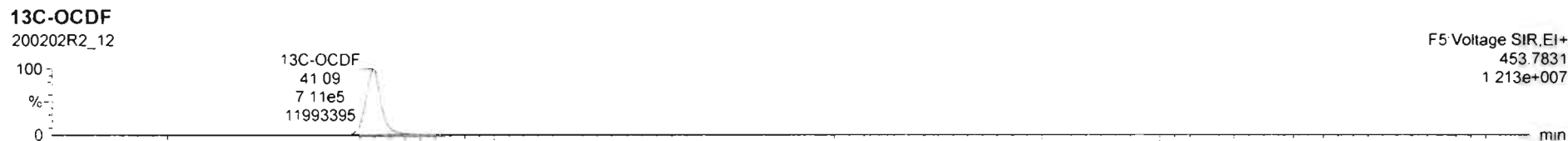
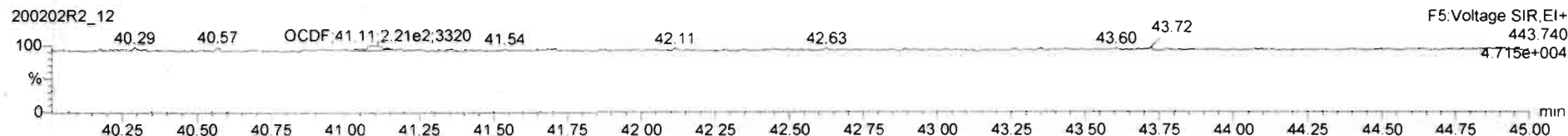
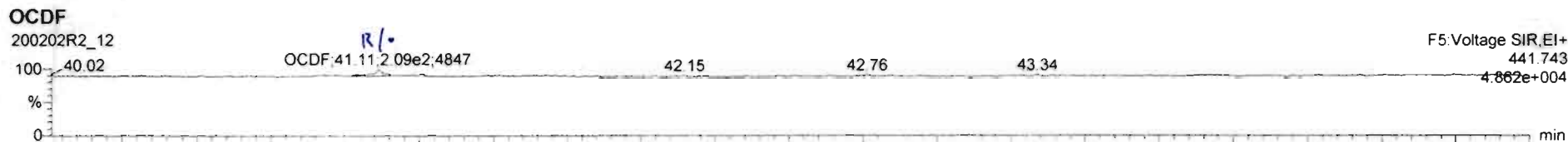
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	1,2,3,4,6,7,8-HpCDF	36.51	36.48	1.857e2	2.518e2	1.040	0.74	YES	0.10294	0.00000
2	47 Total Hepta-Furans	37.83	37.10	9.208e1	7.186e1	1.040	1.26	YES	0.047613	0.00000



Dataset: Untitled

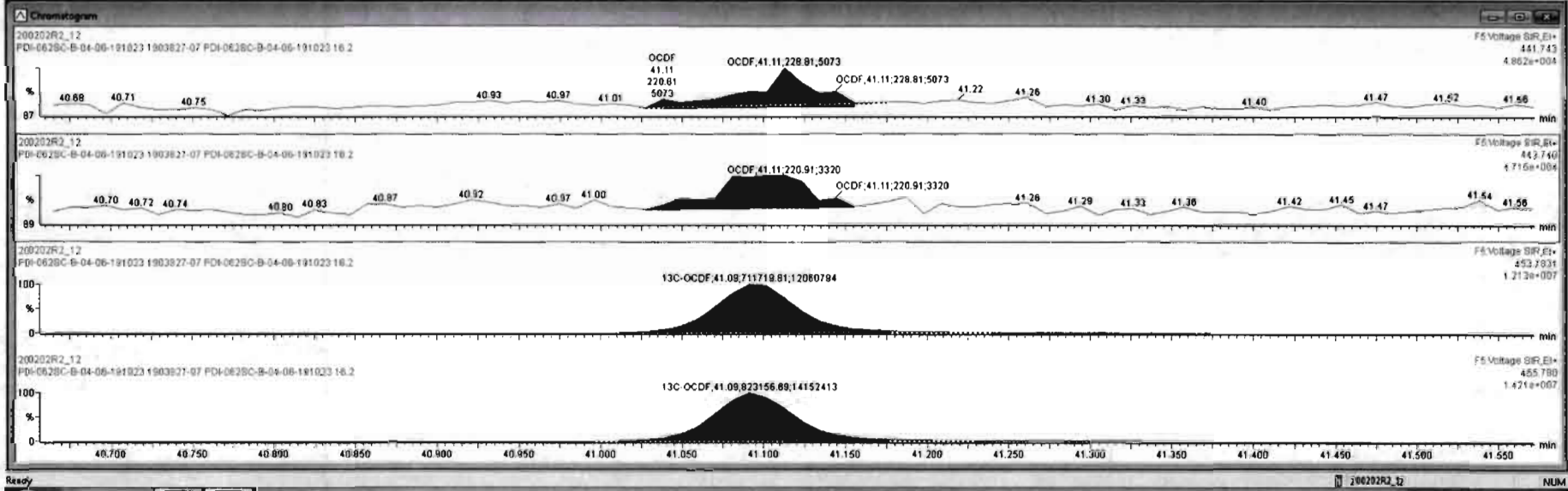
Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time
Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_12, Date: 03-Feb-2020, Time: 06:54:13, ID: 1903827-07 PDI-062SC-B-04-06-191023 16.2, Description: PDI-062SC-B-04-06-191023



Name	Conc.	DL	%Rec	EMPC	Alt Resp	RRP	RT	#	RF	RA	YN	RRT	Acq Date	Acq Time	S* Chr Name	ID	Sensib Text	Factor1	SN1	Cal File	
12	1,2,3,6,7,8-HxCDF		0.0520			0.841	12	29					03-Feb-20	06:54:13	804.102	1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...	
13	2,3,4,8,7,8-HxCDF		0.0528			0.898	13	30					03-Feb-20	06:54:13	804.102	1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...	
14	1,2,3,7,8-HxCDF	0.0882582	0.0739	0.0882582	3.554e2	0.858	34.73	14	31	1.184	NO	1.001	03-Feb-20	06:54:13	804.102	1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...	
15	1,2,3,4,6,7,8-HpCDF	0.123681	0.0665	0.102939	4.375e2	0.851	38.48	15	32	0.737	YES	1.000	03-Feb-20	06:54:13	596.385	1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...	
16	1,2,3,4,7,8-HpCDF		0.0664			0.990	16	33					03-Feb-20	06:54:13	596.385	1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...	
17	OCDF	0.145271	0.0883	0.134888	4.487e2	0.808	41.11	17	34	1.036	YES	1.001	03-Feb-20	06:54:13	781.631	1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...	
18	13C-2,3,7,8-TCDD	91.2704	0.150	45.7		8.289e5	1.199	25.87	18	36	0.782	NO	1.026	03-Feb-20	06:54:13	2605.234	1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...
19	13C-1,2,3,7,8-PeCDD	123.581	0.188	61.9		9.051e5	0.967	30.62	19	36	0.628	NO	1.223	03-Feb-20	06:54:13	3167.789	1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...
20	13C-1,2,3,4,7,8-HxCDD	134.478	0.240	67.3		8.519e5	0.874	33.98	20	38	1.320	NO	1.014	03-Feb-20	06:54:13	4583.786	1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...
21	13C-1,2,3,6,7,8-HxCDD	133.431	0.201	68.8		1.011e6	1.048	34.08	21	38	1.235	NO	1.017	03-Feb-20	06:54:13	4583.786	1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...
22	13C-1,2,3,7,8-HxCDD	146.270	0.215	73.2		1.033e6	0.974	34.38	22	38	1.239	NO	1.025	03-Feb-20	06:54:13	4583.786	1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...
23	13C-1,2,3,4,6,7,8-HpCDD	167.003	0.328	83.8		9.045e5	0.747	37.90	23	38	1.041	NO	1.131	03-Feb-20	06:54:13	5044.251	1903827-07...	PDI-0625C-B-04...	0.0	10.0	db5_1...

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

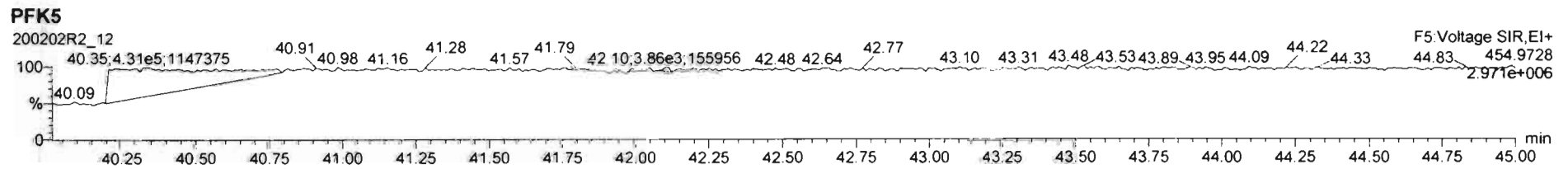
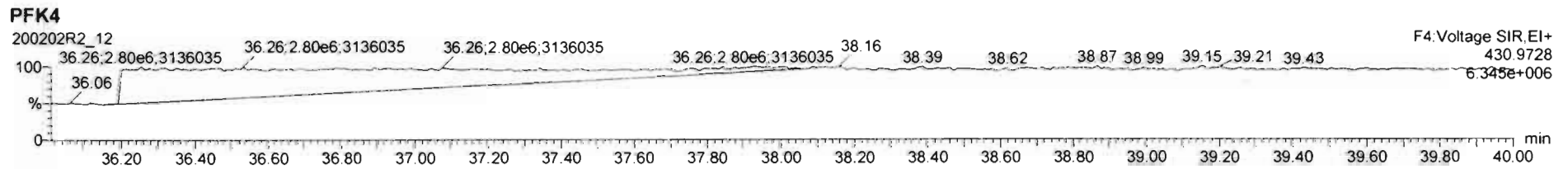
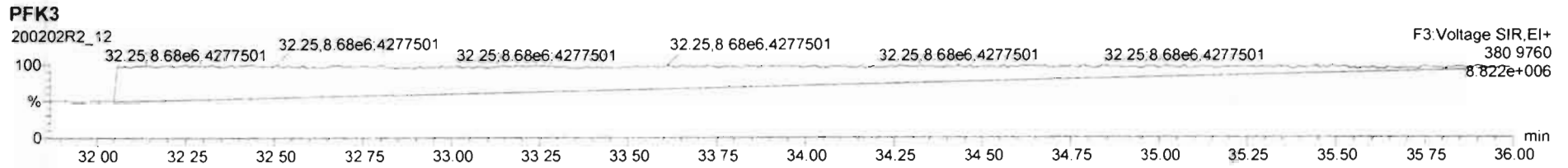
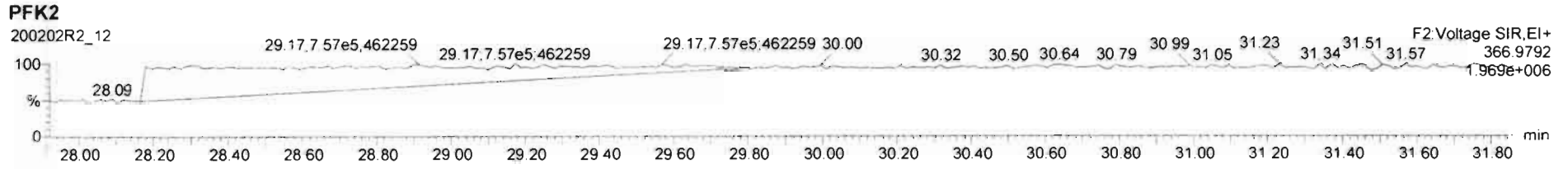
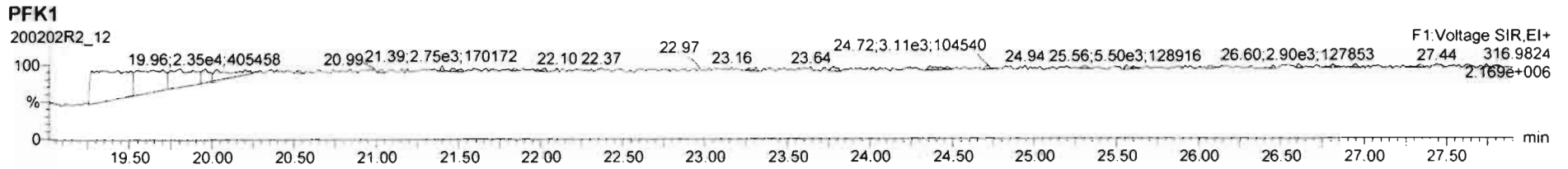


Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time

Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_12, Date: 03-Feb-2020, Time: 06:54:13, ID: 1903827-07 PDI-062SC-B-04-06-191023 16.2, Description: PDI-062SC-B-04-06-191023



Dataset: U:\VG12.PRO\Results\200202R2\200202R2-13b.qld

Last Altered: Friday, February 14, 2020 14:24:04 Pacific Standard Time

Printed: Friday, February 14, 2020 14:27:39 Pacific Standard Time

chy 02-14-2020

C7 02/14/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R2_13, Date: 03-Feb-2020, Time: 07:41:13, ID: 1903827-08 PDI-062SC-B-06-08-191023 14.01, Description: PDI-062SC-B-06-08-191023

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	997.846	0.230	YES	0.988	10.070	25.71	25.69	1.00	1.00	NO	0.1269		0.0750	0.05451
2	2 1,2,3,7,8-PeCDD	326.509	0.802	YES	0.972	10.070	30.64	30.64	1.00	1.00	NO	0.05505		0.0674	0.04979
3	3 1,2,3,4,7,8-HxCDD	155.194	1.150	NO	1.07	10.070	33.99	33.99	1.00	1.00	NO	0.03063		0.0544	0.03063
4	4 1,2,3,6,7,8-HxCDD	644.403	1.232	NO	0.921	10.070	34.08	34.08	1.00	1.00	NO	0.1326		0.0573	0.1326
5	5 1,2,3,7,8,9-HxCDD	934.618	1.349	NO	0.918	10.070	34.39	34.37	1.00	1.00	NO	0.2047		0.0645	0.2047
6	6 1,2,3,4,6,7,8-HpCDD	6723.785	1.007	NO	0.923	10.070	37.91	37.92	1.00	1.00	NO	2.055		0.124	2.055
7	7 OCDD	41138.457	0.839	NO	0.975	10.070	40.91	40.92	1.00	1.00	NO	20.60		0.207	20.60
8	8 2,3,7,8-TCDF	2555.623	0.703	NO	0.802	10.070	24.82	24.82	1.00	1.00	NO	0.3012		0.0623	0.3012
9	9 1,2,3,7,8-PeCDF	2854.886	1.679	NO	0.907	10.070	29.36	29.37	1.00	1.00	NO	0.3234		0.0712	0.3234
10	10 2,3,4,7,8-PeCDF	1326.562	1.507	NO	0.952	10.070	30.35	30.33	1.00	1.00	NO	0.1612		0.0721	0.1612
11	11 1,2,3,4,7,8-HxCDF	4998.474	1.136	NO	0.862	10.070	33.11	33.12	1.00	1.00	NO	0.9687		0.0688	0.9687
12	12 1,2,3,6,7,8-HxCDF	1605.635	1.315	NO	0.841	10.070	33.24	33.23	1.00	1.00	NO	0.2898		0.0674	0.2898
13	13 2,3,4,6,7,8-HxCDF	423.164	1.191	NO	0.898	10.070	33.85	33.85	1.00	1.00	NO	0.08924		0.0800	0.08924
14	14 1,2,3,7,8,9-HxCDF	505.983	0.852	YES	0.858	10.070	34.71	34.73	1.00	1.00	NO	0.1192		0.0978	0.09909
15	15 1,2,3,4,6,7,8-HpCDF	2054.716	0.935	NO	0.851	10.070	36.51	36.48	1.00	1.00	NO	0.6362		0.0725	0.6362
16	16 1,2,3,4,7,8,9-HpCDF	459.409	1.153	NO	0.980	10.070	38.49	38.51	1.00	1.00	NO	0.1802		0.0801	0.1802
17	17 OCDF	1449.329	0.938	NO	0.806	10.070	41.10	41.11	1.00	1.00	NO	0.7040		0.126	0.7040
18	18 13C-2,3,7,8-TCDD	1581032.2...	0.785	NO	1.20	10.070	25.68	25.67	1.03	1.03	NO	161.0	81.1	0.127	
19	19 13C-1,2,3,7,8-PeCDD	1211624.5...	0.635	NO	0.967	10.070	30.41	30.62	1.22	1.22	NO	153.0	77.0	0.155	
20	20 13C-1,2,3,4,7,8-HxCDD	939895.344	1.273	NO	0.874	10.070	33.98	33.98	1.01	1.01	NO	138.7	69.8	0.185	
21	21 13C-1,2,3,6,7,8-HxCDD	1047958.8...	1.276	NO	1.05	10.070	34.08	34.08	1.02	1.02	NO	129.2	65.1	0.155	
22	22 13C-1,2,3,7,8,9-HxCDD	987422.313	1.240	NO	0.974	10.070	34.38	34.36	1.03	1.03	NO	130.7	65.8	0.166	
23	23 13C-1,2,3,4,6,7,8-HpCDD	704132.281	1.036	NO	0.747	10.070	37.93	37.90	1.13	1.13	NO	121.5	61.2	0.252	
24	24 13C-OCDD	814122.469	0.901	NO	0.707	10.070	40.81	40.91	1.22	1.22	NO	148.6	37.4	0.156	
25	25 13C-2,3,7,8-TCDF	2101116.188	0.771	NO	1.07	10.070	24.86	24.79	0.99	0.99	NO	145.6	73.3	0.194	
26	26 13C-1,2,3,7,8-PeCDF	1932380.8...	1.582	NO	1.00	10.070	29.19	29.34	1.17	1.17	NO	142.5	71.7	0.216	
27	27 13C-2,3,4,7,8-PeCDF	1717381.6...	1.581	NO	0.962	10.070	30.14	30.32	1.20	1.21	NO	131.9	66.4	0.225	
28	28 13C-1,2,3,4,7,8-HxCDF	1188543.3...	0.509	NO	1.05	10.070	33.11	33.11	0.99	0.99	NO	146.1	73.5	0.270	
29	29 13C-1,2,3,6,7,8-HxCDF	1308021.0...	0.508	NO	1.19	10.070	33.21	33.23	0.99	0.99	NO	141.7	71.4	0.238	
30	30 13C-2,3,4,6,7,8-HxCDF	1048583.0...	0.513	NO	1.07	10.070	33.81	33.82	1.01	1.01	NO	126.8	63.8	0.266	
31	31 13C-1,2,3,7,8,9-HxCDF	982659.438	0.504	NO	0.922	10.070	34.71	34.71	1.04	1.04	NO	137.4	69.2	0.307	

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-13b.qld

Last Altered: Friday, February 14, 2020 14:24:04 Pacific Standard Time

Printed: Friday, February 14, 2020 14:27:39 Pacific Standard Time

Name: 200202R2_13, Date: 03-Feb-2020, Time: 07:41:13, ID: 1903827-08 PDI-062SC-B-06-08-191023 14.01, Description: PDI-062SC-B-06-08-191023

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	753699.813	0.415	NO	0.767	10.070	36.46	36.47	1.09	1.09	NO	126.7	63.8	0.264	
33	13C-1,2,3,4,7,8,9-HpCDF	516692.234	0.448	NO	0.552	10.070	38.47	38.49	1.15	1.15	NO	120.6	60.7	0.366	
34	13C-OCDF	1015167.3...	0.882	NO	0.789	10.070	41.05	41.10	1.23	1.23	NO	165.8	41.7	0.227	
35	37Cl-2,3,7,8-TCDD	637767.875			1.18	10.070	25.71	25.70	1.03	1.03	NO	66.19	83.3	0.0411	
36	13C-1,2,3,4-TCDD	1626986.4...	0.805	NO	1.00	10.070	25.08	25.03	1.00	1.00	NO	198.6	100	0.153	
37	13C-1,2,3,4-TCDF	2689643.3...	0.786	NO	1.00	10.070	23.42	23.37	1.00	1.00	NO	198.6	100	0.207	
38	13C-1,2,3,4,6,9-HxCDF	1540402.4...	0.504	NO	1.00	10.070	33.52	33.51	1.00	1.00	NO	198.6	100	0.283	
39	Total Tetra-Dioxins				0.988	10.070	24.62		0.00		NO	0.4147		0.0750	0.9752
40	Total Penta-Dioxins				0.972	10.070	29.96		0.00		NO	0.4206		0.0674	0.8925
41	Total Hexa-Dioxins				0.921	10.070	33.63		0.00		NO	2.546		0.0615	2.646
42	Total Hepta-Dioxins				0.923	10.070	37.64		0.00		NO	5.262		0.124	5.262
43	Total Tetra-Furans				0.802	10.070	23.61		0.00		NO	2.391		0.0623	2.737
44	1st Func. Penta-Furans				0.907	10.070	27.09		0.00		NO	0.1265		0.0117	0.1265
45	Total Penta-Furans				0.907	10.070	29.27		0.00		NO	0.9290		0.0733	1.015
46	Total Hexa-Furans				0.898	10.070	33.56		0.00		NO	1.499		0.0744	1.857
47	Total Hepta-Furans				0.851	10.070	37.83		0.00		NO	1.285		0.0805	1.285

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-13b.qld

Last Altered: Friday, February 14, 2020 14:24:04 Pacific Standard Time

Printed: Friday, February 14, 2020 14:28:07 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R2_13, Date: 03-Feb-2020, Time: 07:41:13, ID: 1903827-08 PDI-062SC-B-06-08-191023 14.01, Description: PDI-062SC-B-06-08-191023

Tetra-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	0.00e0	1.58e6	0.957	YES	24.62	26.03	0.0000	0.04632
2	1 2,3,7,8-TCDD	9.98e2	1.58e6	0.230	YES	25.71	25.69	0.0000	0.05451
3	39 Total Tetra-Dioxins	6.11e2	1.58e6	0.769	NO	24.62	25.05	0.07768	0.07768
4	39 Total Tetra-Dioxins	4.29e2	1.58e6	0.716	NO	24.62	24.69	0.05455	0.05455
5	39 Total Tetra-Dioxins	2.22e3	1.58e6	0.797	NO	24.62	23.55	0.2825	0.2825
6	39 Total Tetra-Dioxins	0.00e0	1.58e6	1.391	YES	24.62	22.16	0.0000	0.08078
7	39 Total Tetra-Dioxins	0.00e0	1.58e6	0.681	NO	24.62	21.71	0.0000	0.08497
8	39 Total Tetra-Dioxins	0.00e0	1.58e6	0.892	YES	24.62	25.75	0.0000	0.01470
9	39 Total Tetra-Dioxins	0.00e0	1.58e6	1.141	YES	24.62	26.63	0.0000	0.03243
10	39 Total Tetra-Dioxins	0.00e0	1.58e6	0.696	NO	24.62	21.75	0.0000	0.1831
11	39 Total Tetra-Dioxins	0.00e0	1.58e6	0.493	YES	24.62	22.17	0.0000	0.06364

Penta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	0.00e0	1.21e6	1.563	YES	29.96	30.33	0.0000	0.03708
2	40 Total Penta-Dioxins	0.00e0	1.21e6	0.738	YES	29.96	30.18	0.0000	0.04302
3	40 Total Penta-Dioxins	0.00e0	1.21e6	0.776	YES	29.96	29.86	0.0000	0.04041
4	40 Total Penta-Dioxins	0.00e0	1.21e6	0.879	YES	29.96	29.34	0.0000	0.07738
5	40 Total Penta-Dioxins	1.13e3	1.21e6	0.590	NO	29.96	28.91	0.1905	0.1905
6	40 Total Penta-Dioxins	1.36e3	1.21e6	0.598	NO	29.96	28.42	0.2300	0.2300
7	40 Total Penta-Dioxins	0.00e0	1.21e6	0.808	YES	29.96	29.90	0.0000	0.08895
8	40 Total Penta-Dioxins	0.00e0	1.21e6	1.193	YES	29.96	29.39	0.0000	0.04260
9	2 1,2,3,7,8-PeCDD	3.27e2	1.21e6	0.802	YES	30.64	30.64	0.0000	0.04979
10	40 Total Penta-Dioxins	0.00e0	1.21e6	0.603	NO	29.96	29.66	0.0000	0.05837
11	40 Total Penta-Dioxins	0.00e0	1.21e6	0.805	YES	29.96	29.57	0.0000	0.03435

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-13b.qld

Last Altered: Friday, February 14, 2020 14:24:04 Pacific Standard Time

Printed: Friday, February 14, 2020 14:28:07 Pacific Standard Time

Name: 200202R2_13, Date: 03-Feb-2020, Time: 07:41:13, ID: 1903827-08 PDI-062SC-B-06-08-191023 14.01, Description: PDI-062SC-B-06-08-191023

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	9.35e2	9.87e5	1.349	NO	34.39	34.37	0.2047	0.2047
2	41 Total Hexa-Dioxins	0.00e0	0.00e0	1.502	YES	33.63	34.27	0.0000	0.06203
3	4 1,2,3,6,7,8-HxCDD	6.44e2	1.05e6	1.232	NO	34.08	34.08	0.1326	0.1326
4	41 Total Hexa-Dioxins	2.92e3	0.00e0	1.181	NO	33.63	33.29	0.6344	0.6344
5	41 Total Hexa-Dioxins	1.69e3	0.00e0	1.185	NO	33.63	33.06	0.3679	0.3679
6	41 Total Hexa-Dioxins	5.41e3	0.00e0	1.306	NO	33.63	32.51	1.176	1.176
7	3 1,2,3,4,7,8-HxCDD	1.55e2	9.40e5	1.150	NO	33.99	33.99	0.03063	0.03063
8	41 Total Hexa-Dioxins	0.00e0	0.00e0	1.033	YES	33.63	33.41	0.0000	0.03803

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	6.72e3	7.04e5	1.007	NO	37.91	37.92	2.055	2.055
2	42 Total Hepta-Dioxins	1.05e4	7.04e5	0.984	NO	37.64	36.87	3.208	3.208

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-13b.qld

Last Altered: Friday, February 14, 2020 14:24:04 Pacific Standard Time

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Name: 200202R2_13, Date: 03-Feb-2020, Time: 07:41:13, ID: 1903827-08 PDI-062SC-B-06-08-191023 14.01, Description: PDI-062SC-B-06-08-191023

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	6.00e2	2.10e6	0.863	NO	23.61	23.00	0.07071	0.07071
2	43 Total Tetra-Furans	5.17e2	2.10e6	0.864	NO	23.61	22.59	0.06088	0.06088
3	43 Total Tetra-Furans	5.74e2	2.10e6	0.809	NO	23.61	22.17	0.06763	0.06763
4	43 Total Tetra-Furans	0.00e0	2.10e6	0.922	YES	23.61	21.77	0.0000	0.1070
5	43 Total Tetra-Furans	1.06e3	2.10e6	0.762	NO	23.61	21.33	0.1246	0.1246
6	43 Total Tetra-Furans	6.29e2	2.10e6	0.763	NO	23.61	21.27	0.07412	0.07412
7	43 Total Tetra-Furans	4.88e3	2.10e6	0.739	NO	23.61	20.78	0.5754	0.5754
8	43 Total Tetra-Furans	4.88e2	2.10e6	0.779	NO	23.61	20.17	0.05757	0.05757
9	43 Total Tetra-Furans	1.44e3	2.10e6	0.809	NO	23.61	19.64	0.1694	0.1694
10	43 Total Tetra-Furans	0.00e0	2.10e6	0.896	YES	23.61	26.80	0.0000	0.04009
11	43 Total Tetra-Furans	1.31e3	2.10e6	0.763	NO	23.61	25.18	0.1549	0.1549
12	8 2,3,7,8-TCDF	2.56e3	2.10e6	0.703	NO	24.82	24.82	0.3012	0.3012
13	43 Total Tetra-Furans	5.78e2	2.10e6	0.722	NO	23.61	24.72	0.06814	0.06814
14	43 Total Tetra-Furans	0.00e0	2.10e6	0.895	YES	23.61	24.60	0.0000	0.04978
15	43 Total Tetra-Furans	6.11e2	2.10e6	0.747	NO	23.61	24.42	0.07203	0.07203
16	43 Total Tetra-Furans	0.00e0	2.10e6	0.958	YES	23.61	24.18	0.0000	0.06056
17	43 Total Tetra-Furans	2.92e3	2.10e6	0.809	NO	23.61	23.89	0.3444	0.3444
18	43 Total Tetra-Furans	1.55e3	2.10e6	0.773	NO	23.61	23.39	0.1824	0.1824
19	43 Total Tetra-Furans	0.00e0	2.10e6	0.918	YES	23.61	23.31	0.0000	0.08857
20	43 Total Tetra-Furans	5.72e2	2.10e6	0.771	NO	23.61	23.13	0.06747	0.06747

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	1.05e3	0.00e0	1.562	NO	27.09	26.78	0.1265	0.1265

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-13b.qld

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Printed: Friday, February 14, 2020 14:28:07 Pacific Standard Time

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Penta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	10 2,3,4,7,8-PeCDF	1.33e3	1.72e6	1.507	NO	30.35	30.33	0.1612	0.1612
2	45 Total Penta-Furans	1.16e3	0.00e0	1.366	NO	29.27	29.60	0.1390	0.1390
3	9 1,2,3,7,8-PeCDF	2.85e3	1.93e6	1.679	NO	29.36	29.37	0.3234	0.3234
4	45 Total Penta-Furans	0.00e0	0.00e0	0.771	YES	29.27	29.17	0.0000	0.03829
5	45 Total Penta-Furans	1.89e3	0.00e0	1.621	NO	29.27	28.36	0.2267	0.2267
6	45 Total Penta-Furans	6.56e2	0.00e0	1.432	NO	29.27	28.21	0.07874	0.07874
7	45 Total Penta-Furans	0.00e0	0.00e0	1.144	YES	29.27	30.22	0.0000	0.04800

Hexa-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	5.06e2	9.83e5	0.852	YES	34.71	34.73	0.0000	0.09909
2	13 2,3,4,6,7,8-HxCDF	4.23e2	1.05e6	1.191	NO	33.85	33.85	0.08924	0.08924
3	12 1,2,3,6,7,8-HxCDF	1.61e3	1.31e6	1.315	NO	33.24	33.23	0.2898	0.2898
4	11 1,2,3,4,7,8-HxCDF	5.00e3	1.19e6	1.136	NO	33.11	33.12	0.9687	0.9687
5	46 Total Hexa-Furans	5.24e2	0.00e0	1.099	NO	33.56	32.67	0.1024	0.1024
6	46 Total Hexa-Furans	0.00e0	0.00e0	1.542	YES	33.56	32.12	0.0000	0.1849
7	46 Total Hexa-Furans	2.51e2	0.00e0	1.347	NO	33.56	31.95	0.04894	0.04894
8	46 Total Hexa-Furans	0.00e0	0.00e0	1.459	YES	33.56	34.75	0.0000	0.07392

Hepta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	4.59e2	5.17e5	1.153	NO	38.49	38.51	0.1802	0.1802
2	47 Total Hepta-Furans	1.27e3	0.00e0	0.888	NO	37.83	37.09	0.4681	0.4681
3	15 1,2,3,4,6,7,8-HpCDF	2.05e3	7.54e5	0.935	NO	36.51	36.48	0.6362	0.6362

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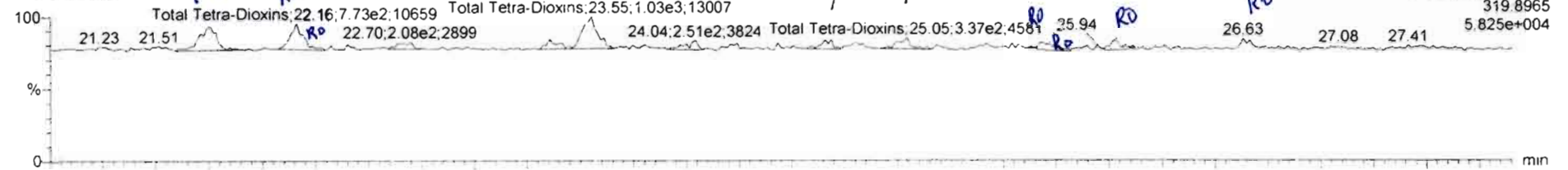
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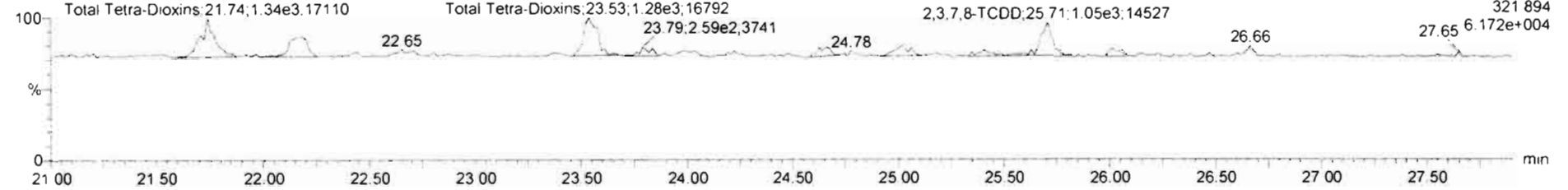
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2,3,7,8-TCDD

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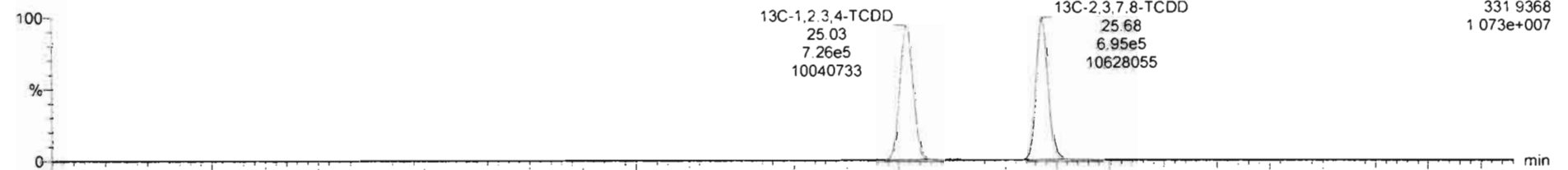


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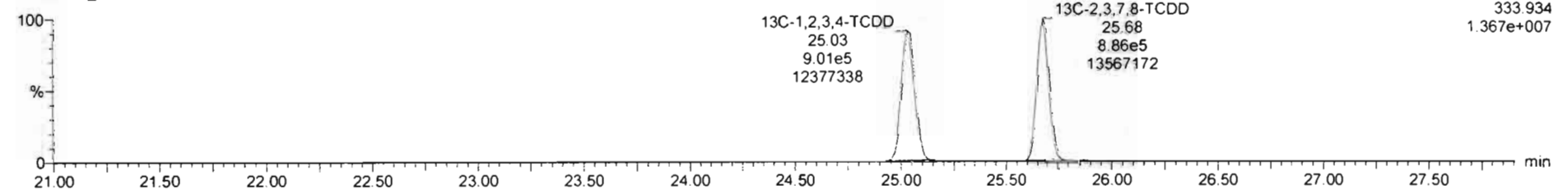


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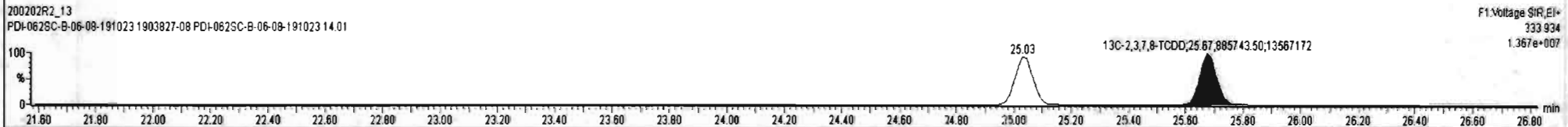
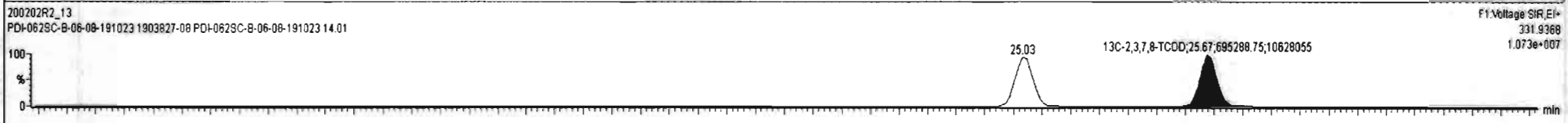
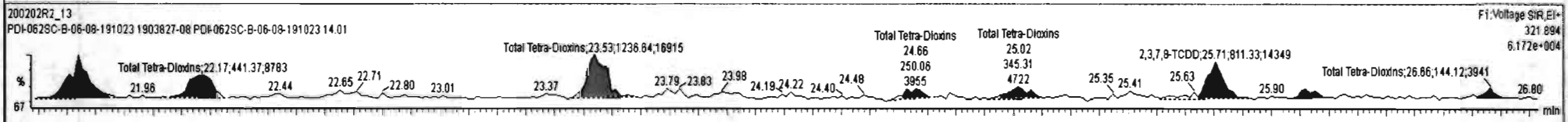
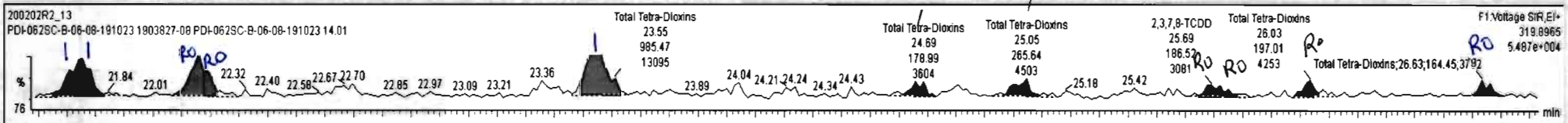


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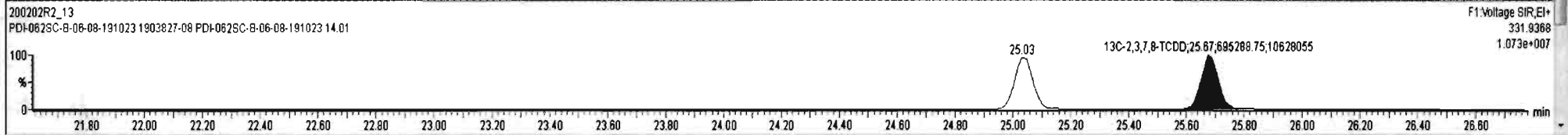
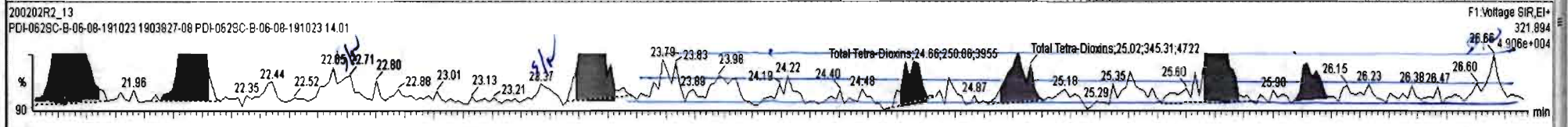
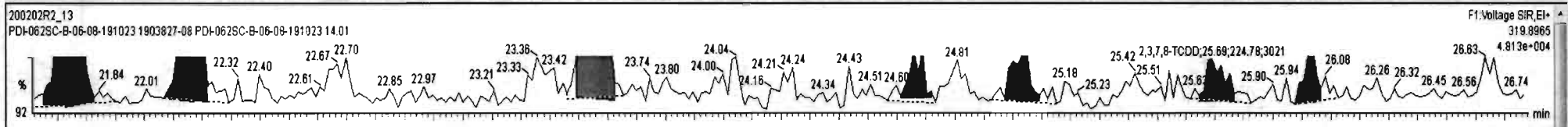
#	Name	Resp	RA	n/y	RPF	wtAval	Prod.RT	RT	Prod.R..	RRT	RRT Fail	Conc.	%Rec.	DL	EMPC
39	Total Tetra-Dioxins				0.9981	10.070	24.62		0.000		NO	0.4147		0.0750	0.9752
40	Total Penta-Dioxins				0.9723	10.070	29.96		0.000		NO	0.4323		0.0674	0.6916
41	Total Hexa-Dioxins				0.9211	10.070	33.63		0.000		NO	2.304		0.0615	2.477
42	Total Hepta-Dioxins				0.9231	10.070	37.84		0.000		NO	5.262		0.124	5.262
43	Total Tetra-Furans				0.8020	10.070	23.61		0.000		NO	2.072		0.0623	2.744
44	1st Func. Penta-Furans				0.9074	10.070	27.09		0.000		NO			0.0117	
45	Total Penta-Furans				0.9074	10.070	29.27		0.000		NO	0.7970		0.0733	1.035
46	Total Hexa-Furans				0.8982	10.070	33.56		0.000		NO	1.346		0.0744	1.645
47	Total Hepta-Furans				0.8541	10.070	37.83		0.000		NO	1.398		0.0983	1.398

#	Name	Prod.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Tetra-Dioxins	24.62	21.71	2.705e2	3.977e2	0.770	0.88	NO	0.064970	0.00000
2	Total Tetra-Dioxins	24.62	21.75	5.910e2	8.491e2	0.770	0.70	NO	0.16310	0.00000
3	Total Tetra-Dioxins	24.62	22.16	4.894e2	3.590e2	0.770	1.39	YES	0.080794	0.00000
4	Total Tetra-Dioxins	24.62	22.17	2.177e2	4.414e2	0.770	0.49	YES	0.063638	0.00000
5	Total Tetra-Dioxins	24.62	23.55	9.855e2	1.237e3	0.770	0.80	NO	0.26252	0.26252
6	Total Tetra-Dioxins	24.62	24.69	1.790e2	2.501e2	0.770	0.72	NO	0.054550	0.054550
7	Total Tetra-Dioxins	24.62	25.05	2.658e2	3.453e2	0.770	0.77	NO	0.077677	0.077677
8	2,3,7,8-TCDD	25.71	25.69	1.865e2	8.113e2	0.770	0.23	YES	0.054511	0.00000
9	Total Tetra-Dioxins	24.62	25.75	5.824e1	6.532e1	0.770	0.89	YES	0.014700	0.00000
10	Total Tetra-Dioxins	24.62	26.03	1.970e2	2.058e2	0.770	0.86	YES	0.046321	0.00000
11	Total Tetra-Dioxins	24.62	26.63	1.644e2	1.441e2	0.770	1.14	YES	0.032432	0.00000



#	Name	Resp	RA	n/y	RRF	wf/vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9861	10.070	24.62		0.000		NO	0.4147		0.0750	0.9274
40	Total Penta-Dioxins				0.9723	10.070	29.96		0.000		NO	0.4323		0.0674	0.6918
41	Total Hexa-Dioxins				0.9211	10.070	33.63		0.000		NO	2.304		0.0615	2.477
42	Total Hepta-Dioxins				0.9231	10.070	37.64		0.000		NO	5.262		0.124	5.262
43	Total Tetra-Furans				0.8020	10.070	23.61		0.000		NO	2.072		0.0623	2.744
44	1st Func. Penta-Furans				0.9074	10.070	27.09		0.000		NO			0.0117	
45	Total Penta-Furans				0.9074	10.070	29.27		0.000		NO	0.7970		0.0733	1.035
46	Total Hexa-Furans				0.8962	10.070	33.56		0.000		NO	1.346		0.0744	1.845
47	Total Mono-Furans				0.8514	10.070	37.63		0.000		NO	1.398		0.0906	1.398

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	21.71	2.257e2	3.997e2	0.770	0.56	YES	0.065976	0.00000
2	39 Total Tetra-Dioxins	24.62	21.75	6.067e2	8.461e2	0.770	0.72	NO	0.18522	0.00000
3	39 Total Tetra-Dioxins	24.62	22.16	4.933e2	3.590e2	0.770	1.37	YES	0.080784	0.00000
4	39 Total Tetra-Dioxins	24.62	22.17	2.348e2	4.414e2	0.770	0.53	YES	0.068610	0.00000
5	39 Total Tetra-Dioxins	24.62	23.55	9.855e2	1.237e3	0.770	0.80	NO	0.26252	0.26252
6	39 Total Tetra-Dioxins	24.62	24.89	1.790e2	2.501e2	0.770	0.72	NO	0.054550	0.054550
7	39 Total Tetra-Dioxins	24.62	25.05	2.656e2	3.453e2	0.770	0.77	NO	0.077677	0.077677
8	1 2,3,7,8-TCDD	25.71	25.69	2.248e2	6.597e2	0.770	0.26	YES	0.065634	0.00000
9	39 Total Tetra-Dioxins	24.62	26.03	1.970e2	2.058e2	0.770	0.96	YES	0.046321	0.00000



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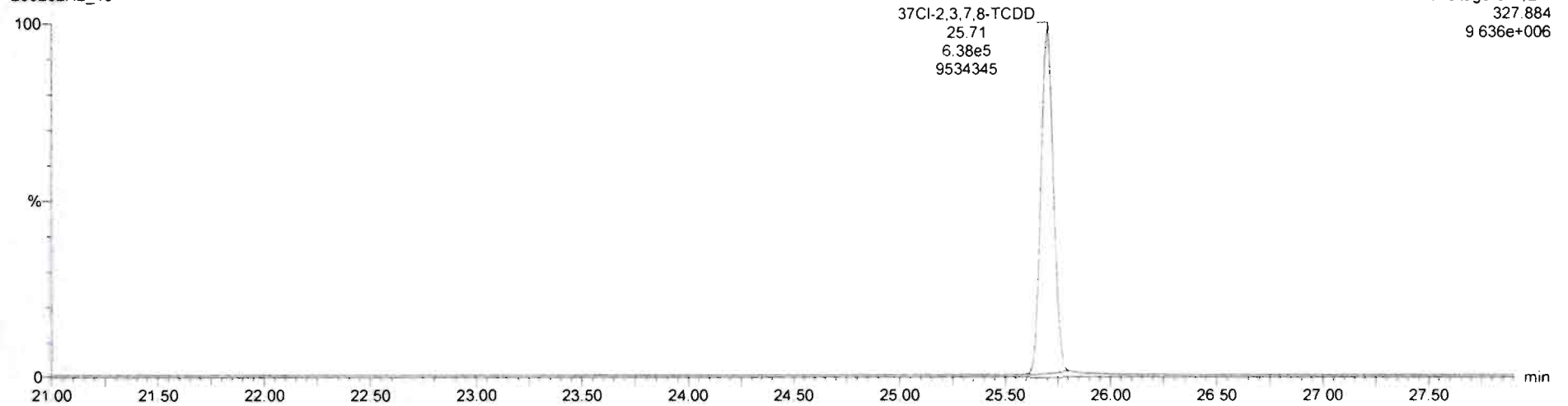
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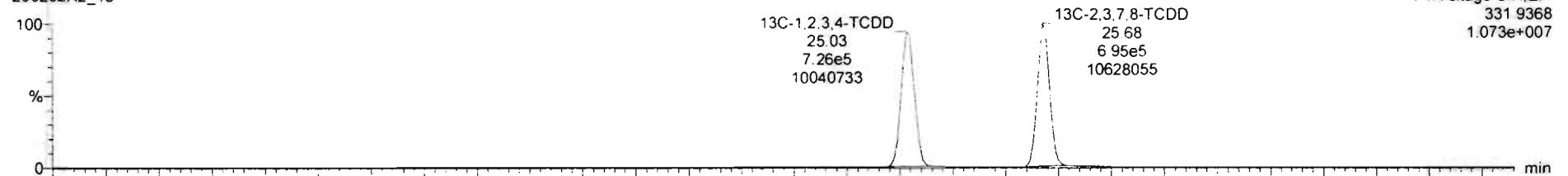
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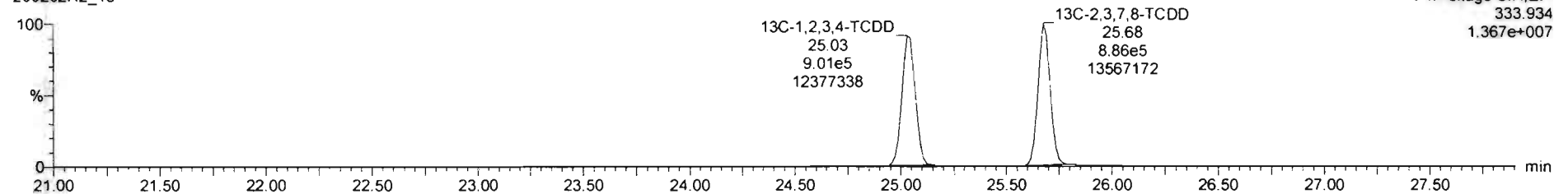


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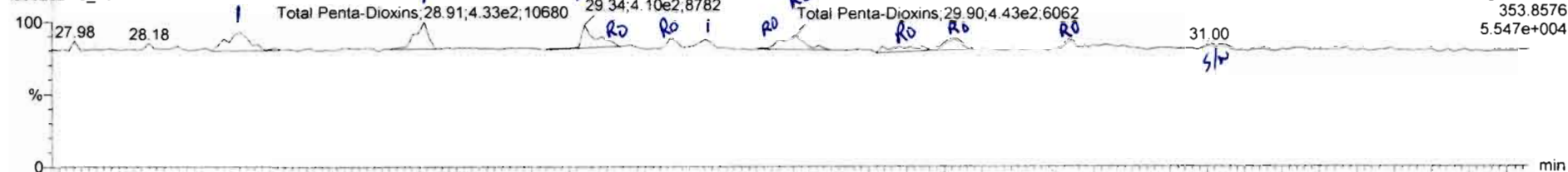
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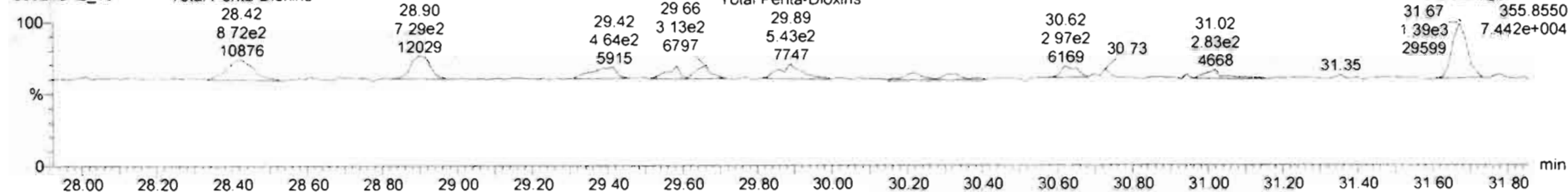
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1,2,3,7,8-PeCDD

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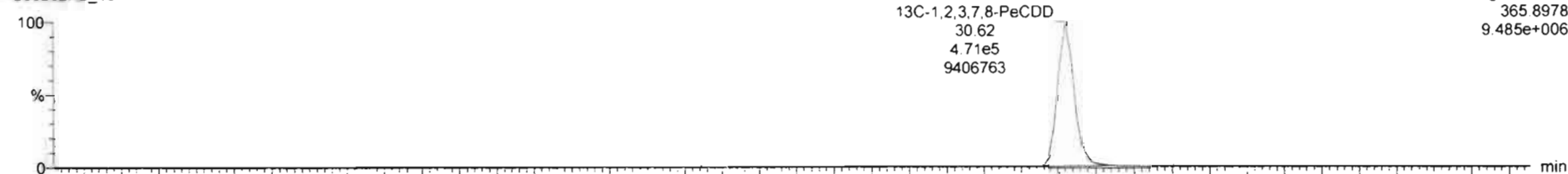


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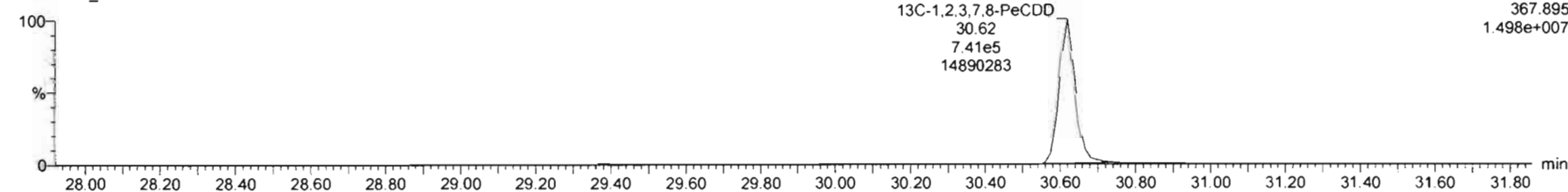


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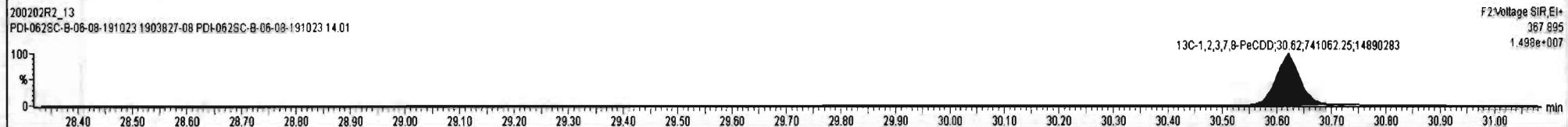
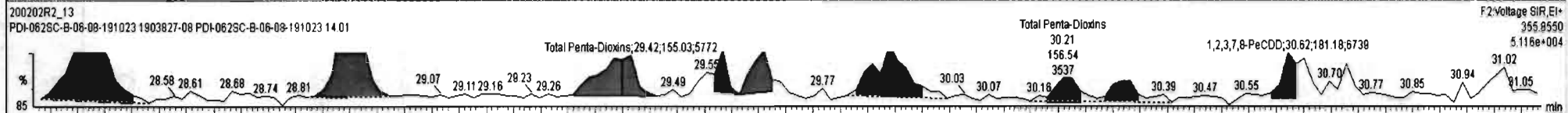
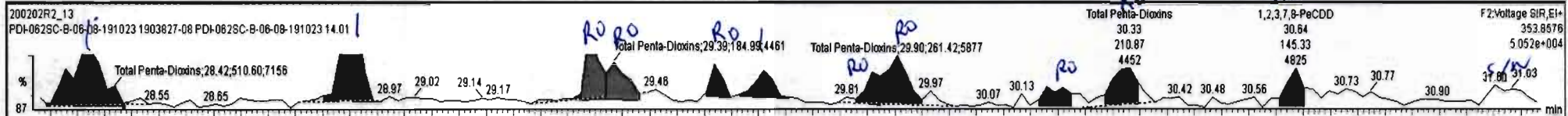


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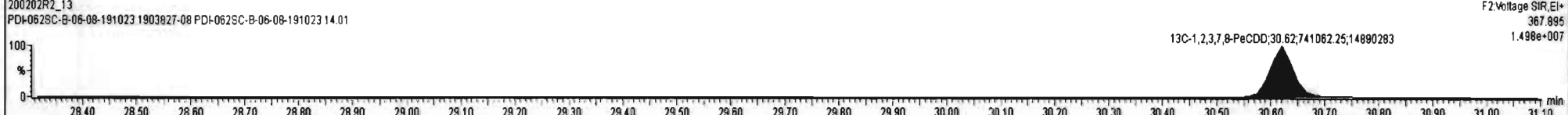
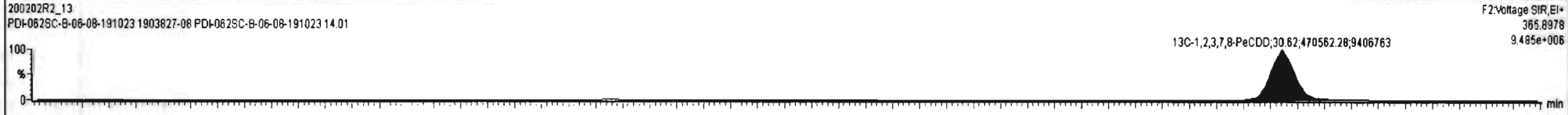
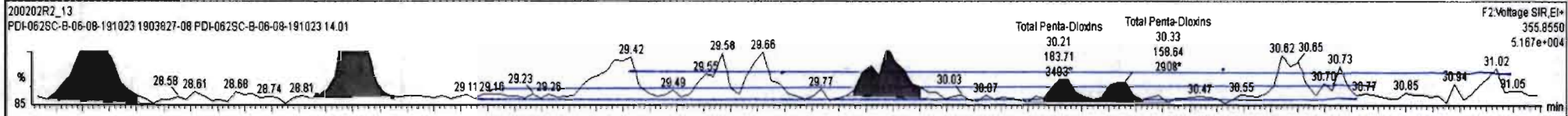
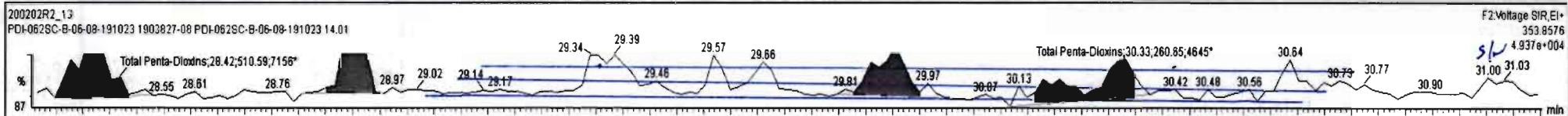
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39	Total Tetra-Dioxins				0.9881	10.070	24.62		0.000		NO	0.4147	0.0750	0.9752	
40	Total Penta-Dioxins				0.9723	10.070	29.96		0.000		NO	0.4208	0.0574	0.8525	
41	Total Hexa-Dioxins				0.9211	10.070	33.63		0.000		NO	2.304	0.0615	2.477	
42	Total Hepta-Dioxins				0.8231	10.070	37.64		0.000		NO	5.262	0.124	5.262	
43	Total Tetra-Furans				0.9020	10.070	23.61		0.000		NO	2.072	0.0623	2.744	
44	1st Func. Penta-Furans				0.9074	10.070	27.08		0.000		NO		0.0117		
45	Total Penta-Furans				0.9074	10.070	29.27		0.000		NO	0.7870	0.0733	1.035	
46	Total Hexa-Furans				0.8982	10.070	33.56		0.000		NO	1.346	0.0744	1.845	
47	Total Hepta-Furans				0.8554	10.070	37.83		0.000		NO	1.398	0.0983	1.968	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	29.96	28.42	5.108e2	8.537e2	0.630	0.60	NO	0.23002	0.23002
2	Total Penta-Dioxins	29.96	28.91	4.193e2	7.108e2	0.630	0.59	NO	0.19053	0.19053
3	Total Penta-Dioxins	29.96	29.34	2.474e2	2.818e2	0.630	0.88	YES	0.077377	0.00000
4	Total Penta-Dioxins	29.96	29.39	1.850e2	1.550e2	0.630	1.19	YES	0.042605	0.00000
5	Total Penta-Dioxins	29.96	29.57	1.006e2	1.250e2	0.630	0.81	YES	0.034346	0.00000
6	Total Penta-Dioxins	29.96	29.66	1.302e2	2.160e2	0.630	0.60	NO	0.056373	0.00000
7	Total Penta-Dioxins	29.96	29.86	1.142e2	1.470e2	0.630	0.78	YES	0.040408	0.00000
8	Total Penta-Dioxins	29.96	29.90	2.614e2	3.237e2	0.630	0.81	YES	0.088945	0.00000
9	Total Penta-Dioxins	29.96	30.18	1.155e2	1.565e2	0.630	0.74	YES	0.043018	0.00000
10	Total Penta-Dioxins	29.96	30.33	2.109e2	1.349e2	0.630	1.56	YES	0.037075	0.00000
11	1,2,3,7,8-PeCDD	30.64	30.64	1.453e2	1.812e2	0.630	0.80	YES	0.048790	0.00000



#	Name	Resp	RA	n/y	RRF	wt/mol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.070	24.62		0.000		NO	0.4147		0.0750	0.9752
40	Total Penta-Dioxins				0.9723	10.070	29.96		0.000		NO	0.4323		0.0674	0.8918
41	Total Hexa-Dioxins				0.9211	10.070	33.63		0.000		NO	2.304		0.0615	2.477
42	Total Hepta-Dioxins				0.9231	10.070	37.64		0.000		NO	5.262		0.124	5.262
43	Total Tetra-Furans				0.8020	10.070	23.61		0.000		NO	2.072		0.0623	2.744
44	1st Func. Penta-Furans				0.9074	10.070	27.09		0.000		NO			0.0117	
45	Total Penta-Furans				0.9074	10.070	29.27		0.000		NO	0.7970		0.0733	1.035
46	Total Hexa-Furans				0.8982	10.070	33.56		0.000		NO	1.346		0.0744	1.845
47	Total Hepta-Furans				0.8544	10.070	37.29		0.000		NO	4.398		0.0903	4.398

#	Name	Pred.RT	RT	nt Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	29.96	28.42	5.298e2	8.723e2	0.630	0.61	NO	0.23638	0.23638
2	Total Penta-Dioxins	29.96	28.91	4.329e2	7.293e2	0.630	0.58	NO	0.19593	0.19593
3	Total Penta-Dioxins	29.96	29.90	4.426e2	5.430e2	0.630	0.61	YES	0.14924	0.00000
4	Total Penta-Dioxins	29.96	30.18	2.654e2	2.003e2	0.630	1.32	YES	0.055057	0.00000
5	Total Penta-Dioxins	29.96	30.33	2.923e2	2.008e2	0.630	1.46	YES	0.055173	0.00000

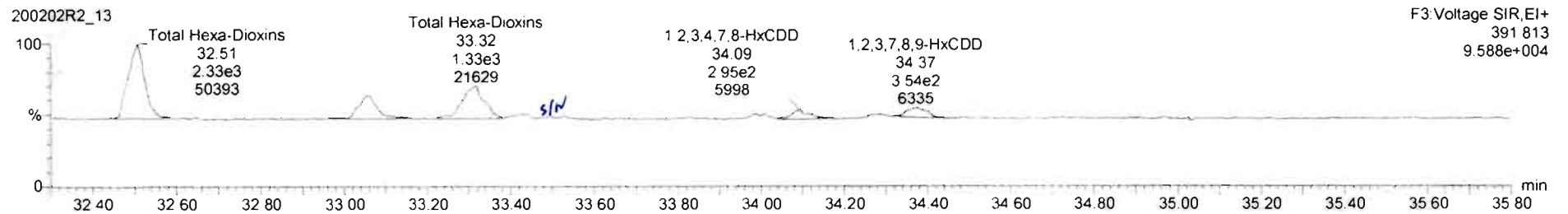
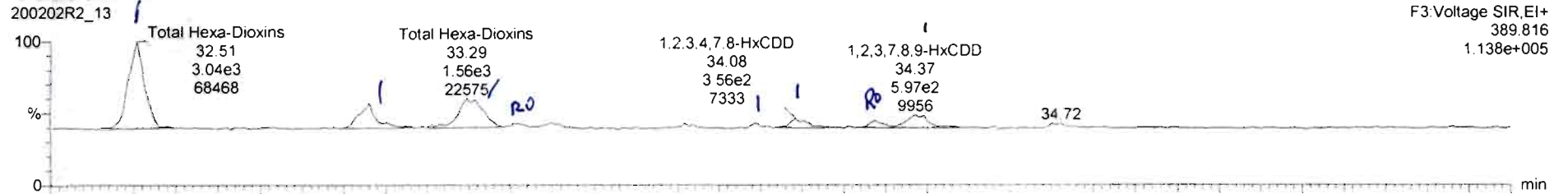


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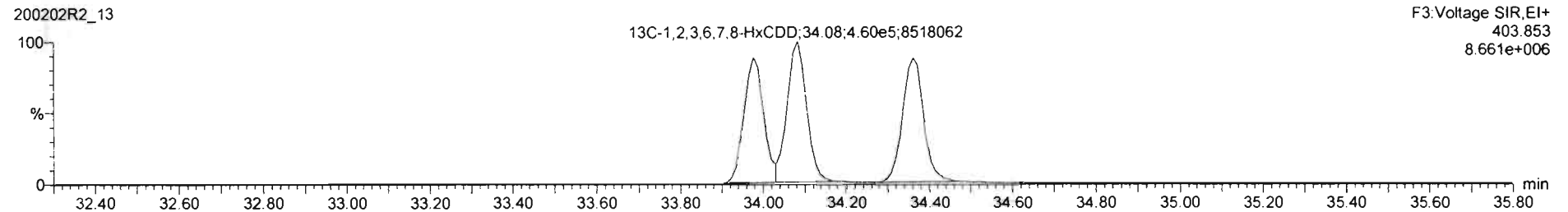
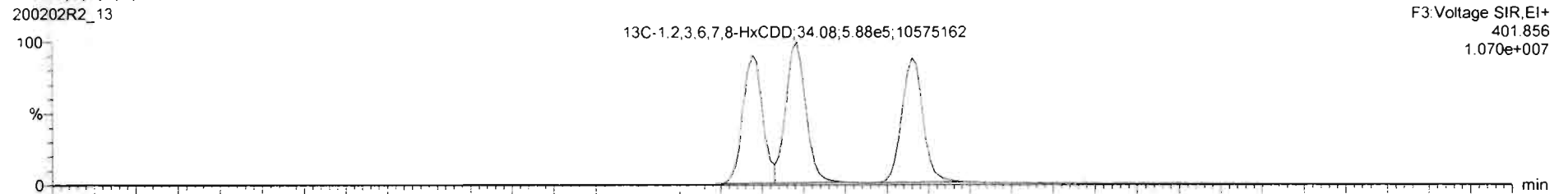
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1,2,3,4,7,8-HxCDD

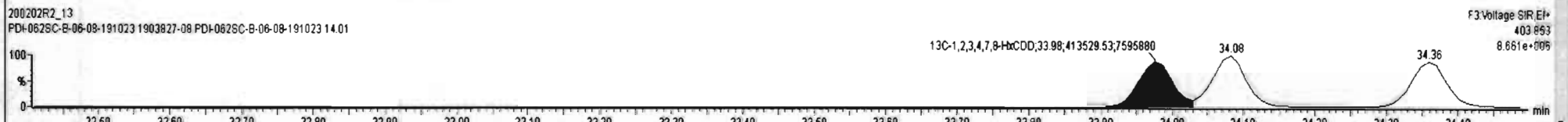
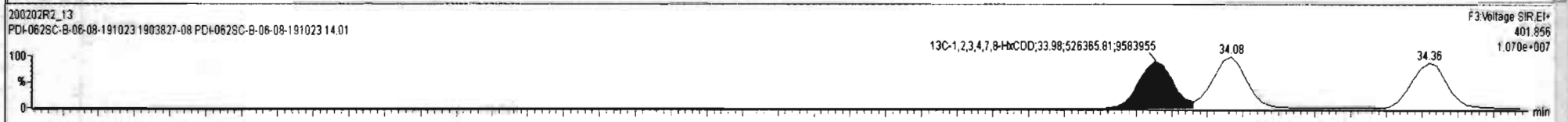
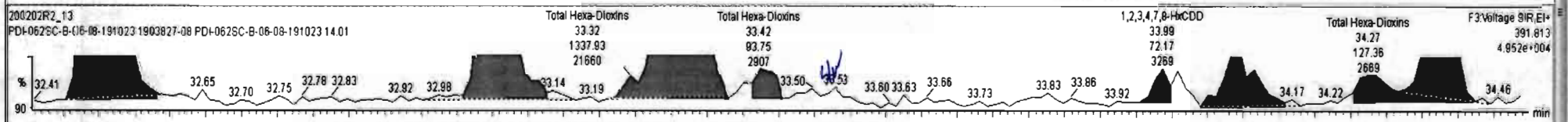
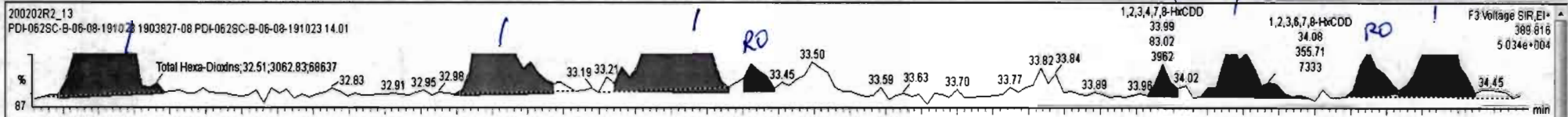


13C-1,2,3,4,7,8-HxCDD



#	Name	Resp	RA	nly	RPF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.070	24.62		0.000		NO	0.4147		0.0750	0.9752
40	Total Penta-Dioxins				0.9723	10.070	29.96		0.000		NO	0.4206		0.0674	0.9925
41	Total Hexa-Dioxins				0.9211	10.070	33.63		0.000		NO	2.546		0.0615	2.546
42	Total Hepta-Dioxins				0.9231	10.070	37.64		0.000		NO	5.262		0.124	5.262
43	Total Tetra-Furans				0.9020	10.070	23.61		0.000		NO	2.072		0.0623	2.744
44	1st Func. Penta-Furans				0.9074	10.070	27.09		0.000		NO			0.0117	
45	Total Penta-Furans				0.9074	10.070	29.27		0.000		NO	0.7970		0.0733	1.035
46	Total Hexa-Furans				0.8982	10.070	33.56		0.000		NO	1.346		0.0744	1.845
47	Total Hepta-Furans				0.8541	10.070	37.83		0.000		NO	1.398		0.0986	1.398

#	Name	Pred.RT	RT	Int. Resp	m2 Resp	1 st Ratio (Pred)	RA	nly	EMPC	Conc.
1	Total Hexa-Dioxins	33.63	32.51	3.063e3	2.345e3	1.240	1.31	NO	1.1758	1.1758
2	Total Hexa-Dioxins	33.63	33.08	9.176e2	7.746e2	1.240	1.18	NO	0.36790	0.36790
3	Total Hexa-Dioxins	33.63	33.29	1.580e3	1.338e3	1.240	1.18	NO	0.63437	0.63437
4	Total Hexa-Dioxins	33.63	33.41	9.683e1	9.375e1	1.240	1.03	YES	0.038029	0.00000
5	1,2,3,4,7,8-HxCDD	33.99	33.99	8.302e1	7.217e1	1.240	1.15	NO	0.030627	0.030627
6	1,2,3,6,7,8-HxCDD	34.08	34.08	3.557e2	2.887e2	1.240	1.23	NO	0.13259	0.13259
7	Total Hexa-Dioxins	33.63	34.27	1.913e2	1.274e2	1.240	1.50	YES	0.062026	0.00000
8	1,2,3,7,8-HxCDD	34.39	34.37	5.367e2	3.980e2	1.240	1.35	NO	0.20474	0.20474



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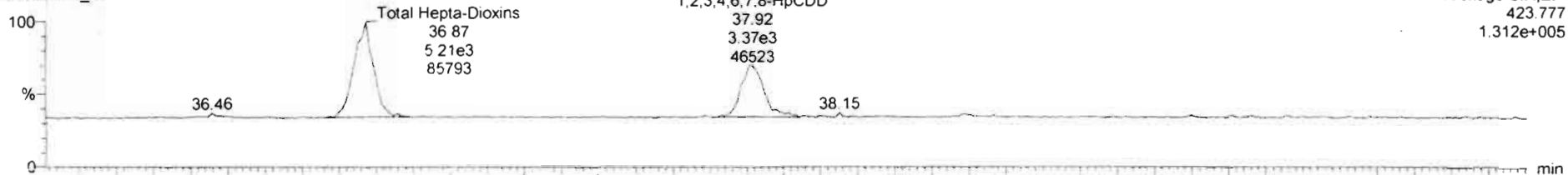
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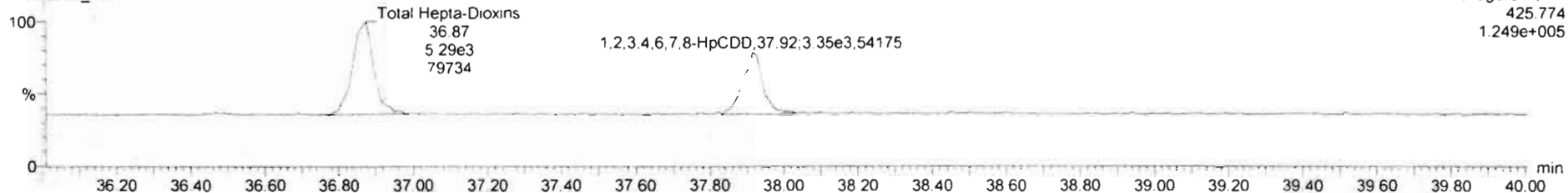
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1,2,3,4,6,7,8-HpCDD

200202R2_13

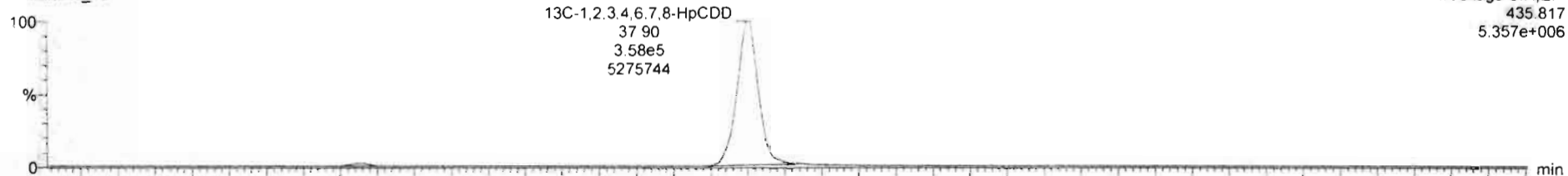


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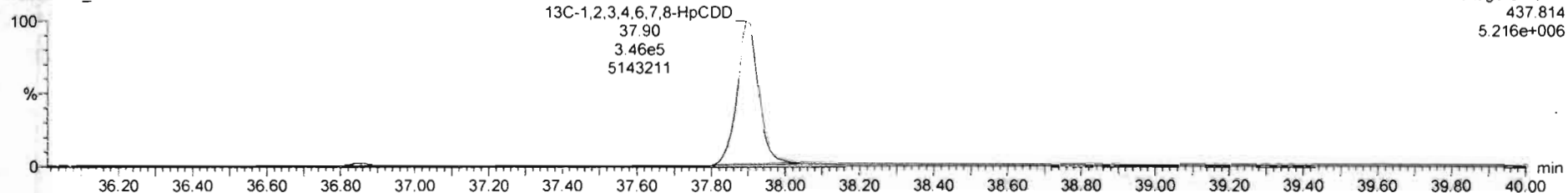


13C-1,2,3,4,6,7,8-HpCDD

200202R2_13



200202R2_13

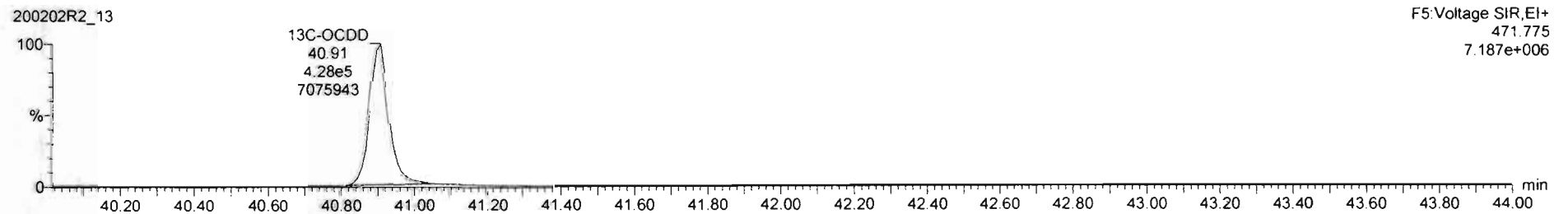
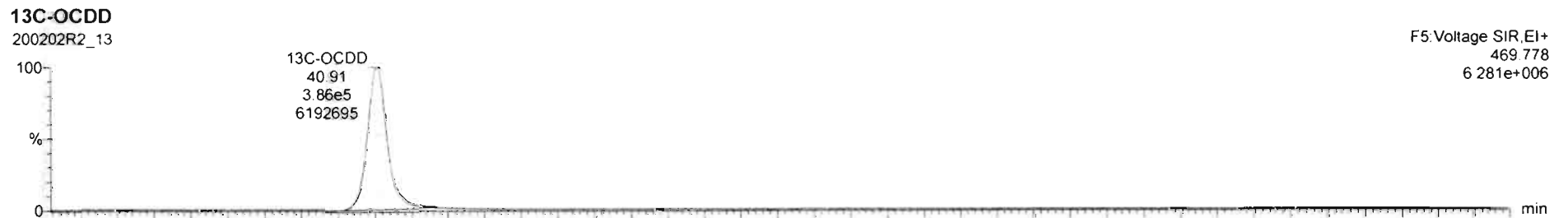
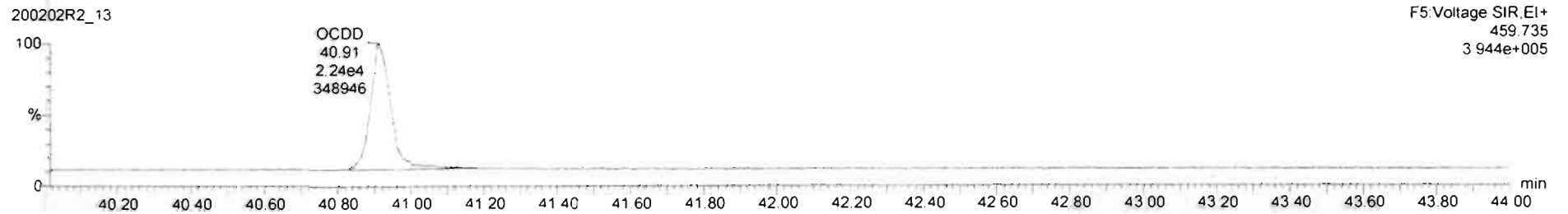
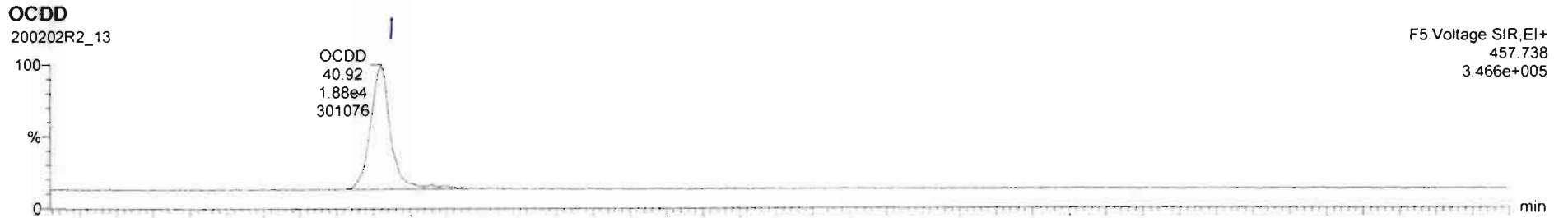


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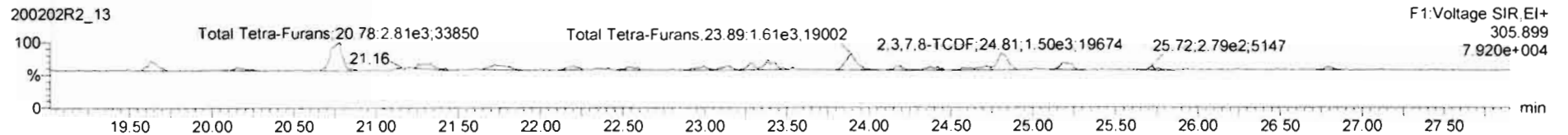
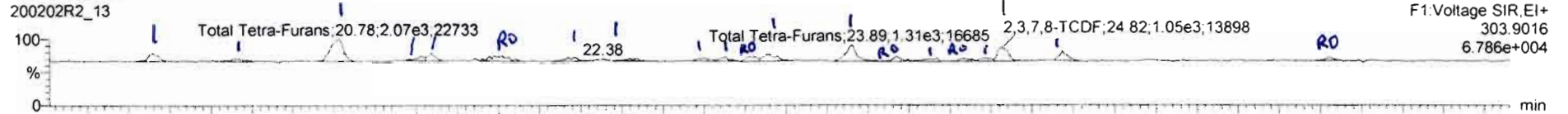


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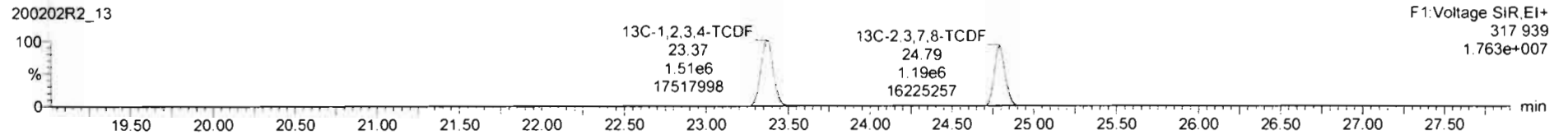
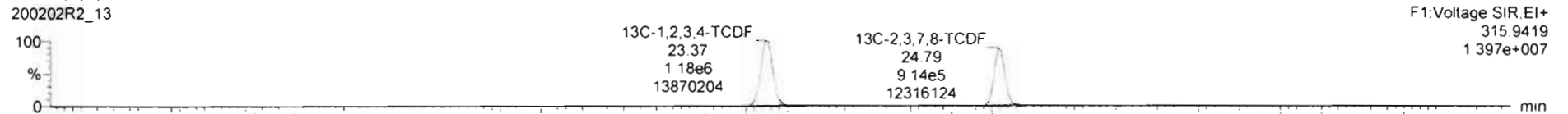
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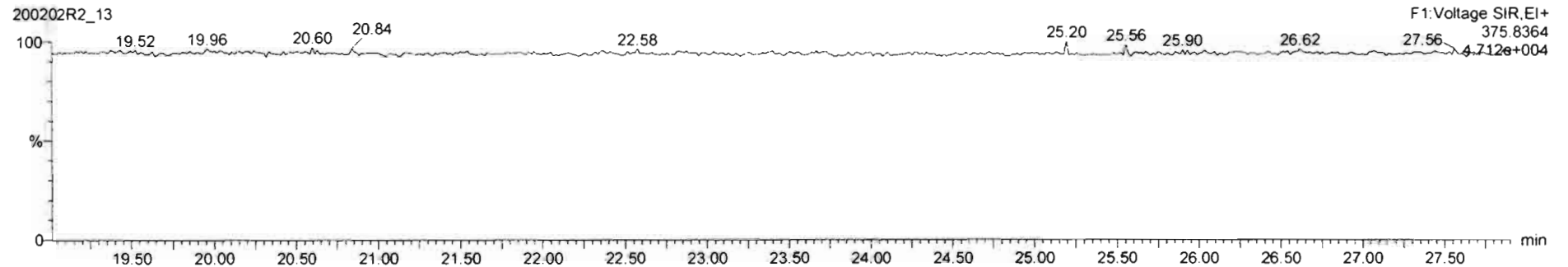
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13C-2,3,7,8-TCDF

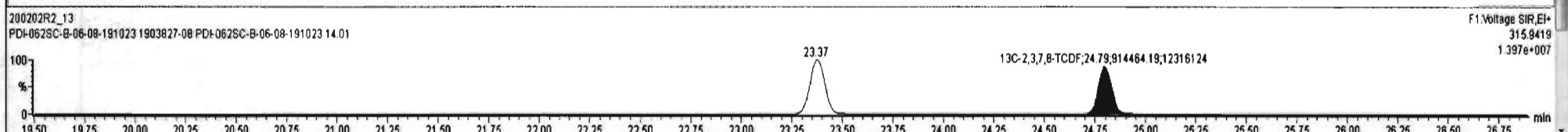
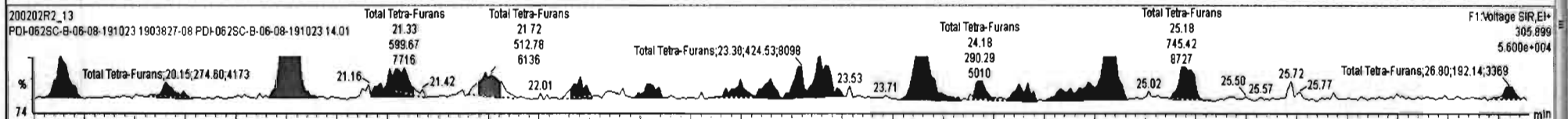
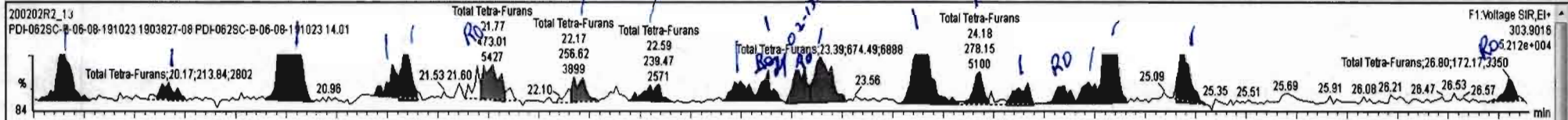


DPE1



#	Name	Resp	RA	n/y	RF	wt/val	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.070	24.82		0.000		NO	0.4147		0.0750	0.9752
40	Total Penta-Dioxins				0.9723	10.070	29.96		0.000		NO	0.4206		0.0674	0.8925
41	Total Hexa-Dioxins				0.9211	10.070	33.63		0.000		NO	2.546		0.0615	2.646
42	Total Hepta-Dioxins				0.9231	10.070	37.64		0.000		NO	5.262		0.124	5.262
43	Total Tetra-Furans				0.9020	10.070	23.61		0.000		NO	2.391		0.0623	2.737
44	1st Func. Penta-Furans				0.9074	10.070	27.09		0.000		NO			0.0117	
45	Total Penta-Furans				0.9074	10.070	29.27		0.000		NO	0.7970		0.0733	1.035
46	Total Hexa-Furans				0.8962	10.070	33.58		0.000		NO	1.346		0.0744	1.845
47	Total Hepta-Furans				0.8514	10.070	37.83		0.000		NO	1.398		0.0985	1.898

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	23.61	19.64	6.424e2	7.944e2	0.770	0.81	NO	0.16936	0.16936
2	Total Tetra-Furans	23.61	20.17	2.138e2	2.746e2	0.770	0.78	NO	0.057572	0.057572
3	Total Tetra-Furans	23.61	20.78	2.074e3	2.808e3	0.770	0.74	NO	0.57542	0.57542
4	Total Tetra-Furans	23.61	21.27	2.722e2	3.566e2	0.770	0.76	NO	0.074123	0.074123
5	Total Tetra-Furans	23.61	21.33	4.570e2	5.997e2	0.770	0.76	NO	0.12456	0.12456
6	Total Tetra-Furans	23.61	21.77	4.730e2	5.128e2	0.770	0.92	YES	0.10698	0.00000
7	Total Tetra-Furans	23.61	22.17	2.566e2	3.171e2	0.770	0.81	NO	0.067627	0.067627
8	Total Tetra-Furans	23.61	22.59	2.395e2	2.770e2	0.770	0.86	NO	0.060881	0.060881
9	Total Tetra-Furans	23.61	23.00	2.780e2	3.220e2	0.770	0.86	NO	0.070713	0.070713
10	Total Tetra-Furans	23.61	23.13	2.492e2	3.233e2	0.770	0.77	NO	0.067470	0.067470
11	Total Tetra-Furans	23.61	23.31	3.699e2	4.245e2	0.770	0.92	YES	0.088569	0.00000
12	Total Tetra-Furans	23.61	23.39	6.745e2	6.730e2	0.770	0.77	NO	0.16240	0.16240
13	Total Tetra-Furans	23.61	23.89	1.307e3	1.615e3	0.770	0.81	NO	0.34435	0.34435
14	Total Tetra-Furans	23.61	24.18	2.782e2	2.903e2	0.770	0.96	YES	0.060564	0.00000
15	Total Tetra-Furans	23.61	24.42	2.612e2	3.498e2	0.770	0.75	NO	0.072026	0.072026
16	Total Tetra-Furans	23.61	24.60	2.135e2	2.395e2	0.770	0.89	YES	0.049778	0.00000
17	Total Tetra-Furans	23.61	24.72	2.424e2	3.357e2	0.770	0.72	NO	0.068136	0.068136
18	2,3,7,8-TCDF	24.82	24.82	1.055e3	1.501e3	0.770	0.70	NO	0.30123	0.30123
19	Total Tetra-Furans	23.61	25.18	5.692e2	7.454e2	0.770	0.76	NO	0.15495	0.15495



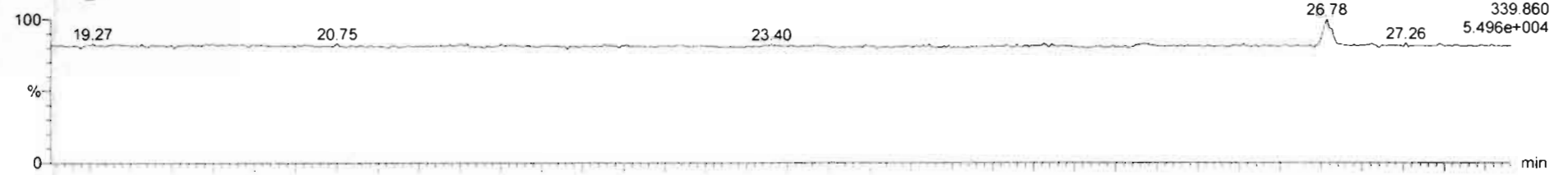
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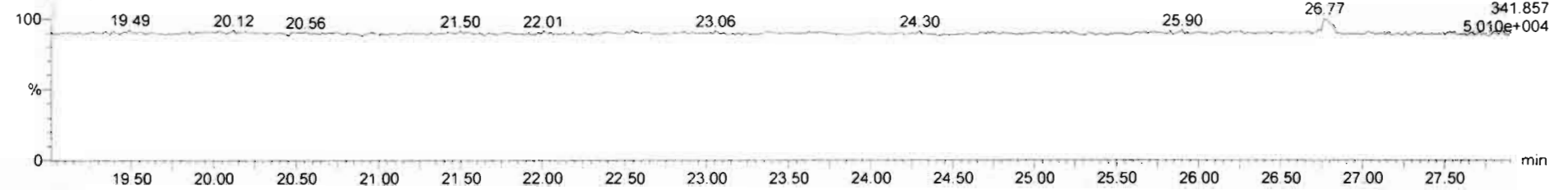
1st Func. Penta-Furans

200202R2_13



F1: Voltage SIR, EI+
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5.496e+004

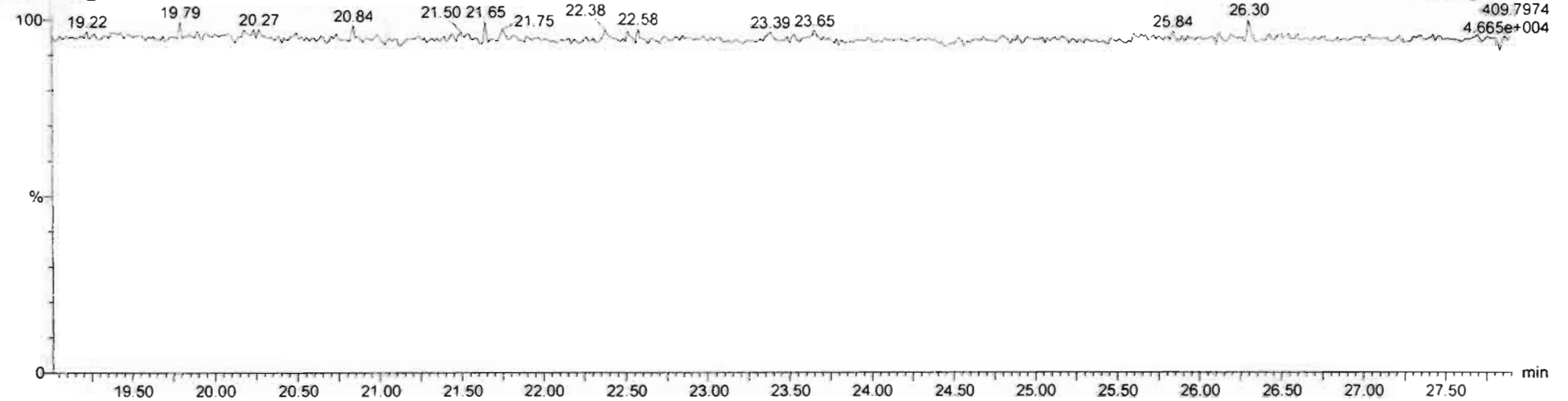
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F1: Voltage SIR, EI+
341.857
5.010e+004

DPE6

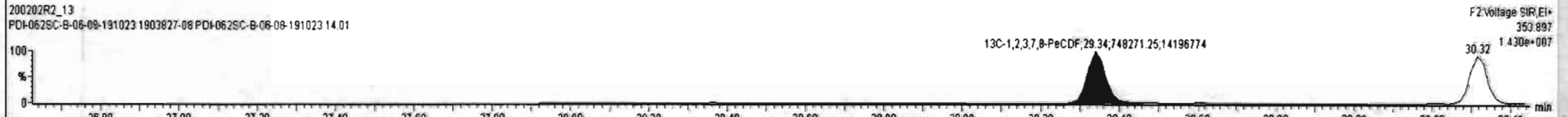
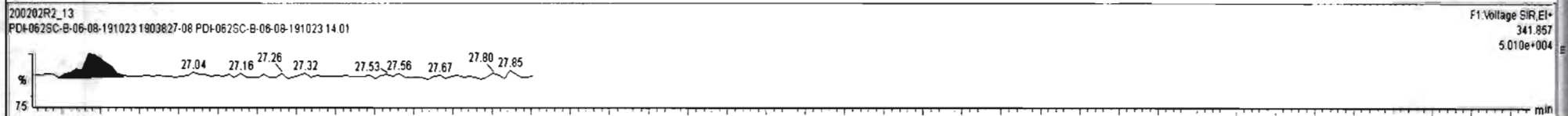
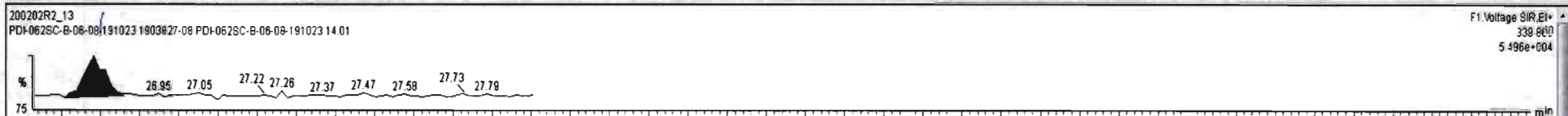
200202R2_13



F1: Voltage SIR, EI+
409.7974
4.665e+004

#	Name	Resp	RA	n/y	RF	wt/ct	Pred_RT	RT	Pred_R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9074	10.070	27.09		0.000		NO	0.1265		0.0117	0.1265
45	Total Penta-Furans				0.9074	10.070	29.27		0.000		NO	0.7970		0.0733	1.035
46	Total Hexa-Furans				0.8982	10.070	33.56		0.000		NO	1.346		0.0744	1.845
47	Total Hepta-Furans				0.8511	10.070	37.83		0.000		NO	1.308		0.0805	1.308
48	PFK1														
49	PFK2														
50	PFK3														
51	PFK4														
49	PFK5														

#	Name	Pred_RT	RT	ref Resp	in2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	44 1st Func. Penta-Furans	27.09	26.78	6.429e2	4.115e2	1.550	1.56	NO	0.12647	0.12647

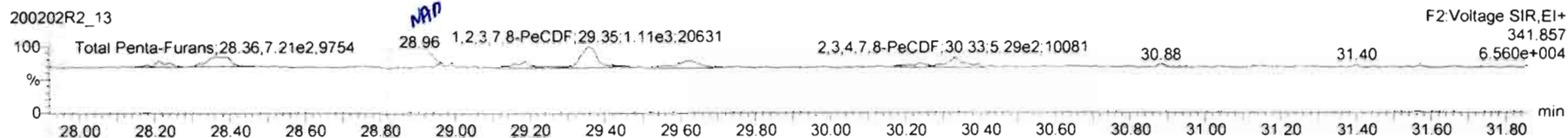
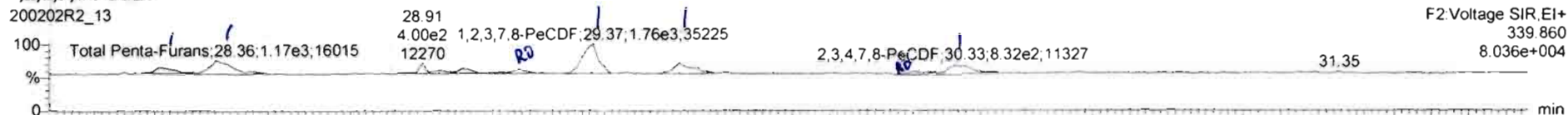


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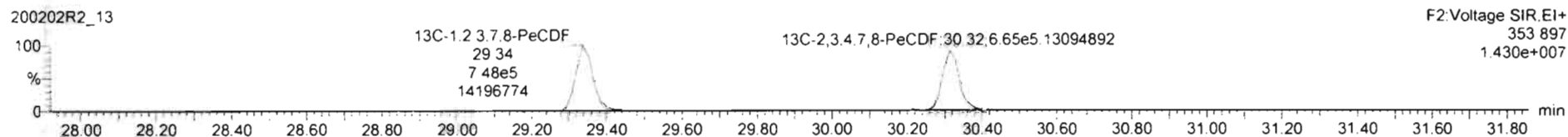
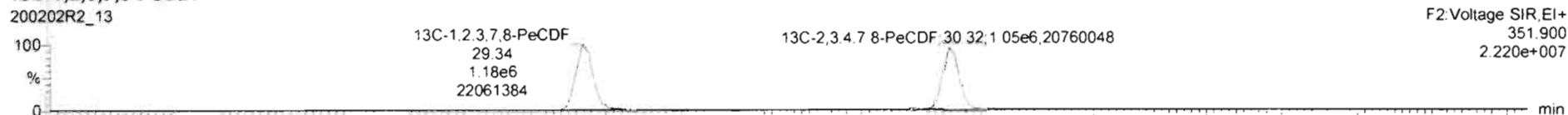
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Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_13, Date: 03-Feb-2020, Time: 07:41:13, ID: 1903827-08 PDI-062SC-B-06-08-191023 14.01, Description: PDI-062SC-B-06-08-191023

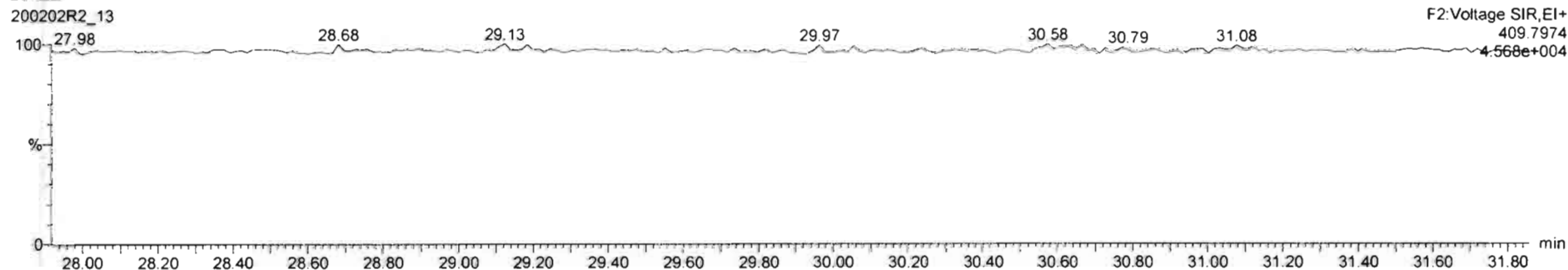
1,2,3,7,8-PeCDF



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



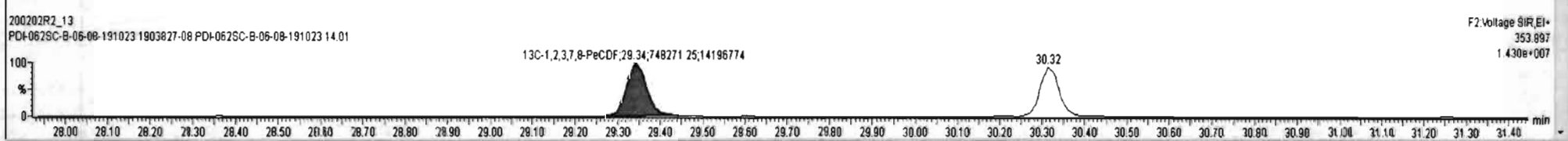
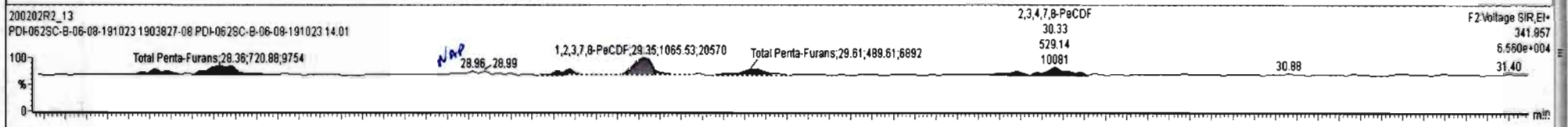
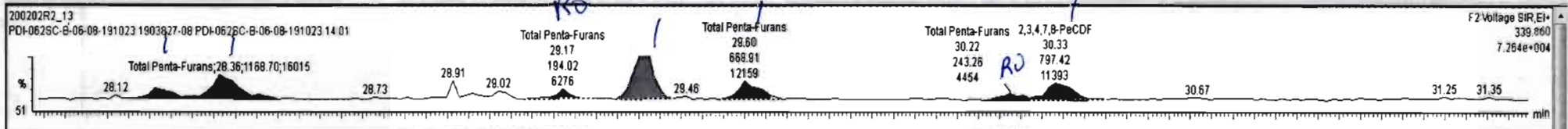
DPE2



2002R2_13

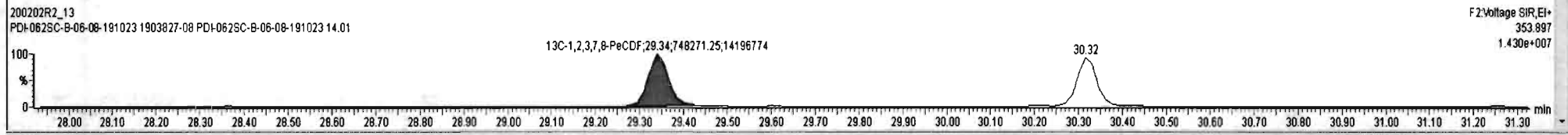
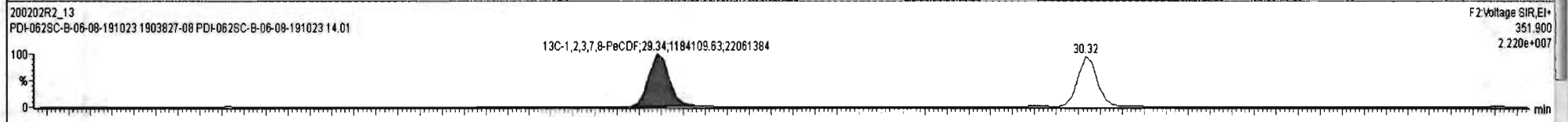
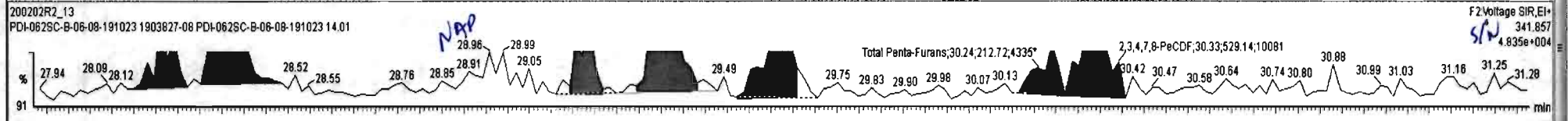
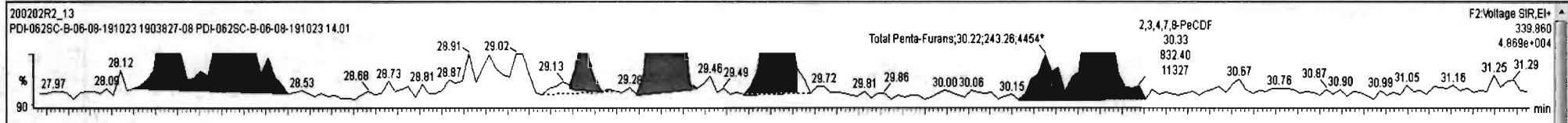
#	Name	Resp	RA	n/y	RPF	wtWt	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9074	10.070	27.09		0.000		NO	0.1265		0.0117	0.1265
45	Total Penta-Furans				0.9074	10.070	29.27		0.000		NO	0.9290		0.0733	1.015
46	Total Hexa-Furans				0.8962	10.070	33.56		0.000		NO	1.346		0.0744	1.645
47	Total Hepta-Furans				0.8511	10.070	37.83		0.000		NO	1.308		0.0805	1.308
48	PFK1														
49	PFK2														
50	PFK3														
51	PFK4														
52	LOVC														

#	Name	Pred.RT	RT	ref Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	29.27	28.21	3.866e2	2.699e2	1.550	1.43	NO	0.078743	0.078743
2	45 Total Penta-Furans	29.27	28.36	1.169e3	7.209e2	1.550	1.62	NO	0.22685	0.22685
3	45 Total Penta-Furans	29.27	29.17	1.940e2	2.518e2	1.550	0.77	YES	0.036287	0.00000
4	9 1,2,3,7,8-PeCDF	29.36	29.37	1.789e3	1.068e3	1.550	1.68	NO	0.32338	0.32338
5	45 Total Penta-Furans	29.27	29.60	6.688e2	4.896e2	1.550	1.37	NO	0.13896	0.13896
6	45 Total Penta-Furans	29.27	30.22	2.433e2	2.127e2	1.550	1.14	YES	0.048004	0.00000
7	10 2,3,4,7,8-PeCDF	30.35	30.33	7.974e2	5.281e2	1.550	1.51	NO	0.16122	0.16122



#	Name	Resp	RA	n/y	RRF	wt/wt	Pred_RT	RT	Pred_R_	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9074	10.070	27.09		0.000		NO	0.1265		0.0117	0.1265
45	Total Penta-Furans				0.9074	10.070	29.27		0.000		NO	0.9390		0.0733	1.014
46	Total Hexa-Furans				0.8982	10.070	33.56		0.000		NO	1.346		0.0744	1.845
47	Total Hepta-Furans				0.8511	10.070	37.83		0.000		NO	1.308		0.0605	1.308
48	PFK1														
49	PFK2														
50	PFK3														
51	PFK4														

#	Name	Pred_RT	RT	ari Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	29.27	28.21	3.866e2	2.699e2	1.550	1.43	NO	0.078743	0.078743
2	45 Total Penta-Furans	29.27	28.36	1.169e3	7.209e2	1.550	1.62	NO	0.22665	0.22665
3	45 Total Penta-Furans	29.27	29.17	1.867e2	2.516e2	1.550	0.74	YES	0.036845	0.00000
4	9 1,2,3,7,8-PeCDF	29.36	29.37	1.765e3	1.114e3	1.550	1.58	NO	0.32613	0.32613
5	45 Total Penta-Furans	29.27	29.60	6.689e2	4.896e2	1.550	1.37	NO	0.13896	0.13896
6	45 Total Penta-Furans	29.27	30.22	1.707e2	8.999e1	1.550	1.90	YES	0.027524	0.00000
7	45 Total Penta-Furans	29.27	30.26	7.034e1	1.184e2	1.550	0.59	YES	0.013890	0.00000
8	10 2,3,4,7,8-PeCDF	30.35	30.33	8.324e2	5.291e2	1.550	1.57	NO	0.16548	0.16548



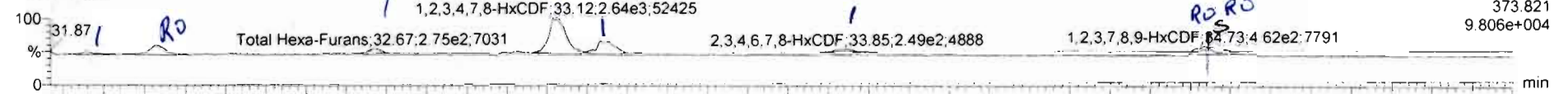
Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time
Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

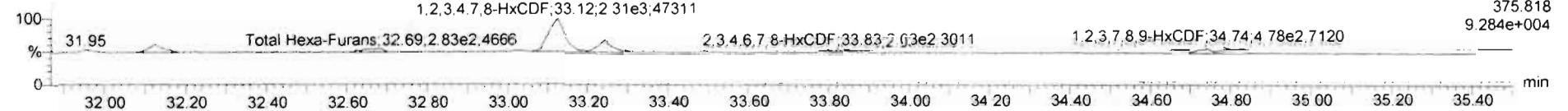
Name: 200202R2_13, Date: 03-Feb-2020, Time: 07:41:13, ID: 1903827-08 PDI-062SC-B-06-08-191023 14.01, Description: PDI-062SC-B-06-08-191023

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

200202R2_13

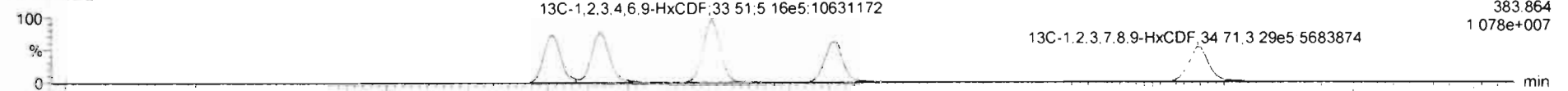


200202R2_13

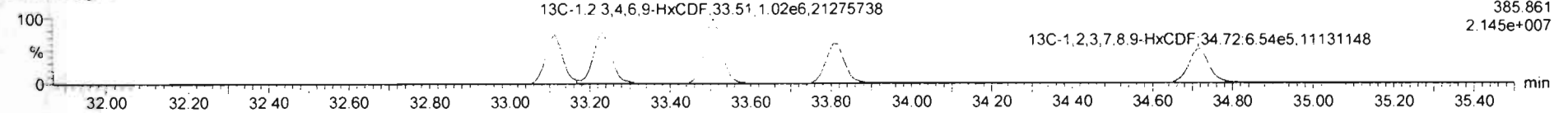


13C-1,2,3,4,7,8-HxCDF

200202R2_13

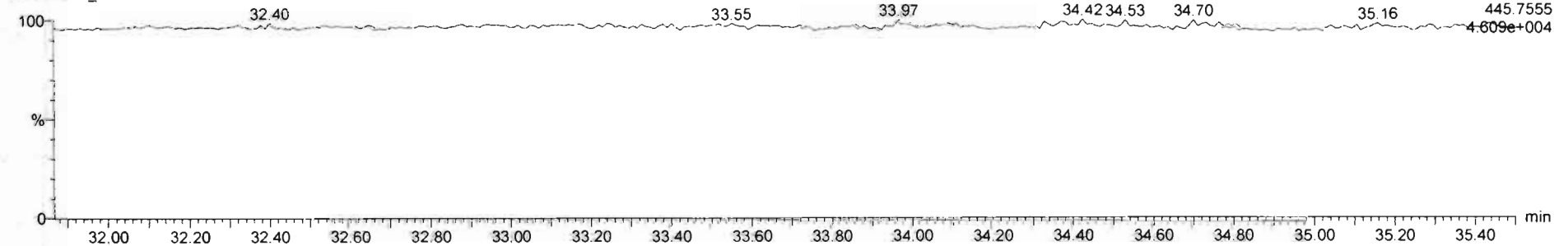


200202R2_13



DPE3

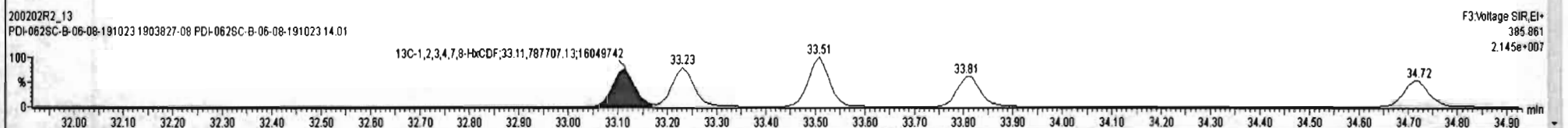
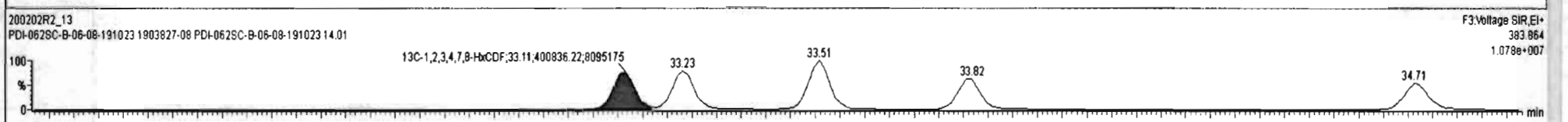
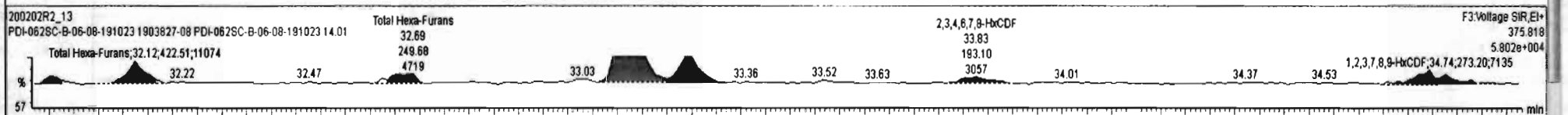
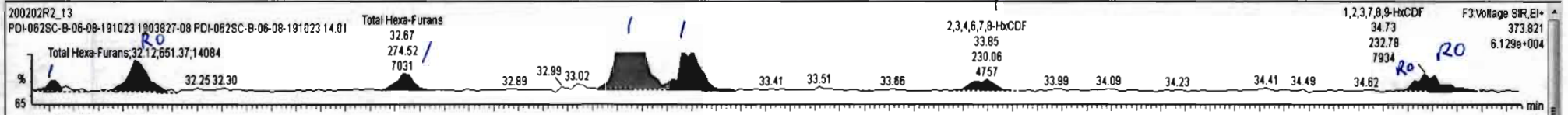
200202R2_13



2002R2_13 - 1903827-08-PDI-062SC-B-06-08-191023 14.01 - PDI-062SC-B-06-08-191023

#	Name	Resp	RA	nV	RF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans				0.8982	10.070	33.58		0.000		NO	1.499		0.0744	1.857
47	Total Hepta-Furans				0.8511	10.070	37.83		0.000		NO	1.285		0.0805	1.285
48	PFK1														
49	PFK2														
50	PFK3														
51	PFK4														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	nV	EMPC	Conc.
1	Total Hexa-Furans	33.56	31.95	1.439e2	1.068e2	1.240	1.35	NO	0.048944	0.048944
2	Total Hexa-Furans	33.56	32.12	6.514e2	4.225e2	1.240	1.54	YES	0.18468	0.00000
3	Total Hexa-Furans	33.56	32.87	2.745e2	2.497e2	1.240	1.10	NO	0.10240	0.10240
4	1,2,3,4,7,8-HxCDF	33.11	33.12	2.658e3	2.340e3	1.240	1.14	NO	0.96868	0.96868
5	1,2,3,6,7,8-HxCDF	33.24	33.23	9.122e2	6.935e2	1.240	1.32	NO	0.28977	0.28977
8	2,3,4,6,7,8-HxCDF	33.85	33.85	2.301e2	1.931e2	1.240	1.19	NO	0.089238	0.089238
7	1,2,3,7,8,9-HxCDF	34.71	34.73	2.328e2	2.732e2	1.240	0.85	YES	0.093086	0.00000
0	Total Hexa-Furans	33.56	34.75	2.465e2	1.688e2	1.240	1.46	YES	0.073924	0.00000



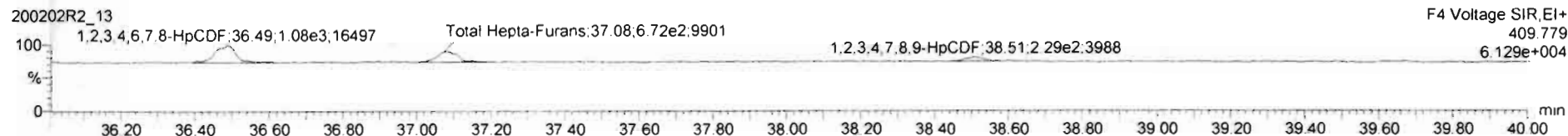
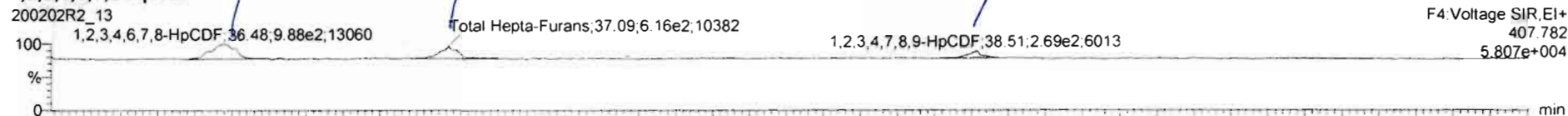
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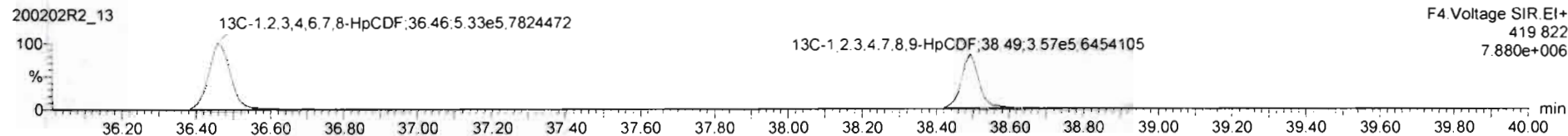
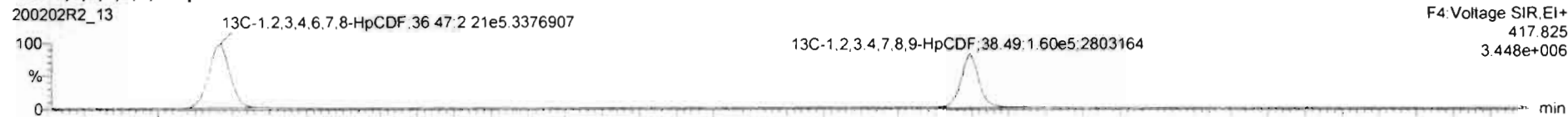
Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_13, Date: 03-Feb-2020, Time: 07:41:13, ID: 1903827-08 PDI-062SC-B-06-08-191023 14.01, Description: PDI-062SC-B-06-08-191023

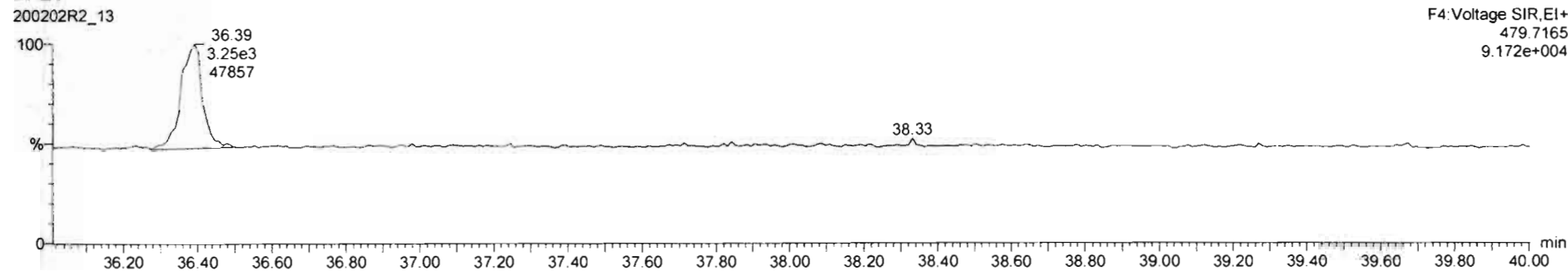
1,2,3,4,6,7,8-HpCDF



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



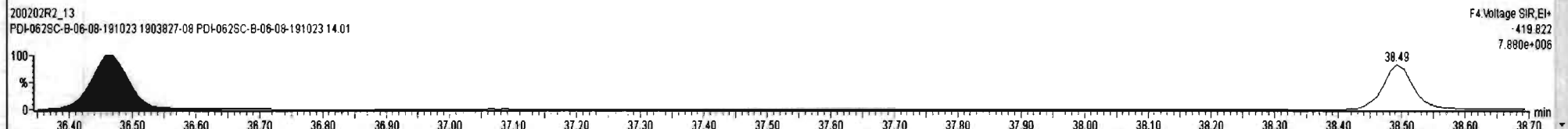
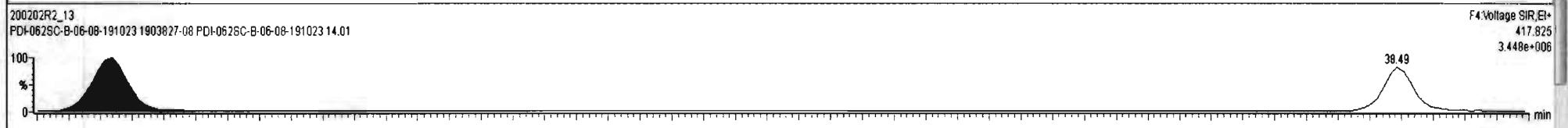
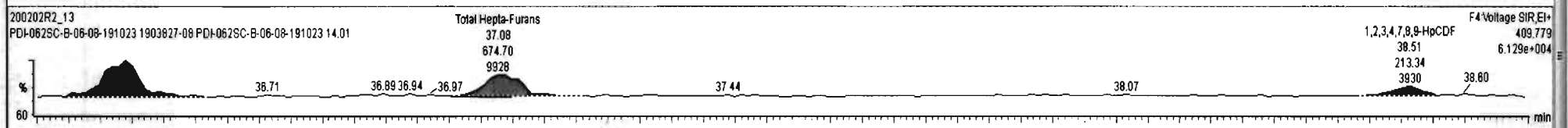
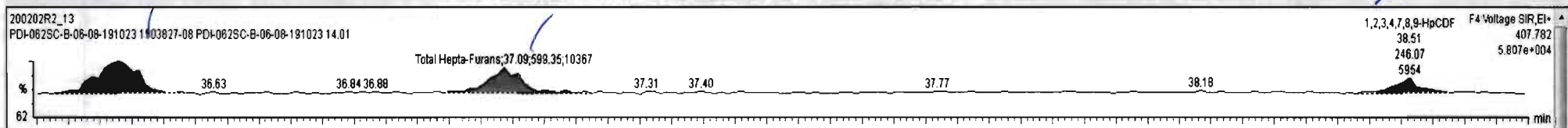
DPE4



200202R2_13 - 1903827-08-PDI-0625C-B-06-08-191023 14.01 - F4-Voltage SIR, EI+

#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9074	10.070	27.09		0.000		NO	0.1265		0.0117	0.1265
45	Total Penta-Furans				0.9074	10.070	29.27		0.000		NO	0.9290		0.0733	1.015
46	Total Hexa-Furans				0.8962	10.070	33.56		0.000		NO	1.499		0.0744	1.783
47	Total Hepta-Furans				0.9511	10.070	37.83		0.000		NO	1.285		0.0605	1.285
48	PFK1														
49	PFK2														
50	PFK3														
51	PFK4														
52	PFK5														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	1,2,3,4,5,7,8-HpCDF	36.51	36.48	9.831e2	1.062e3	1.040	0.94	NO	0.63621	0.63621
2	Total Hepta-Furans	37.83	37.09	5.993e2	6.747e2	1.040	0.89	NO	0.46809	0.46809
3	1,2,3,4,7,8,9-HpCDF	38.49	38.51	2.461e2	2.133e2	1.040	1.15	NO	0.18022	0.18022

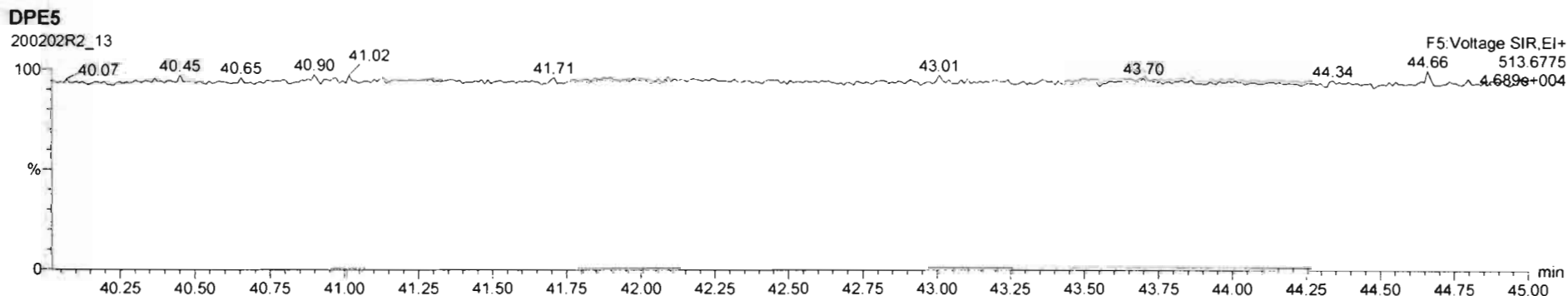
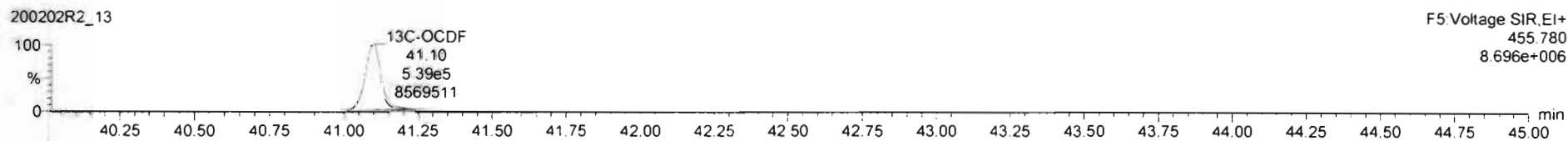
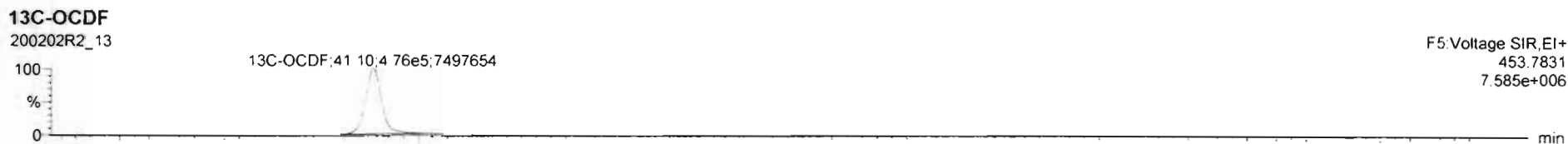
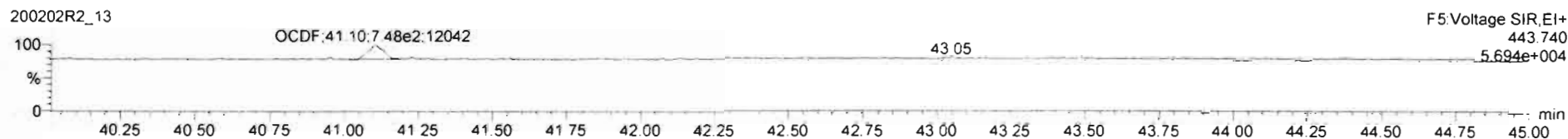


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Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time

Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

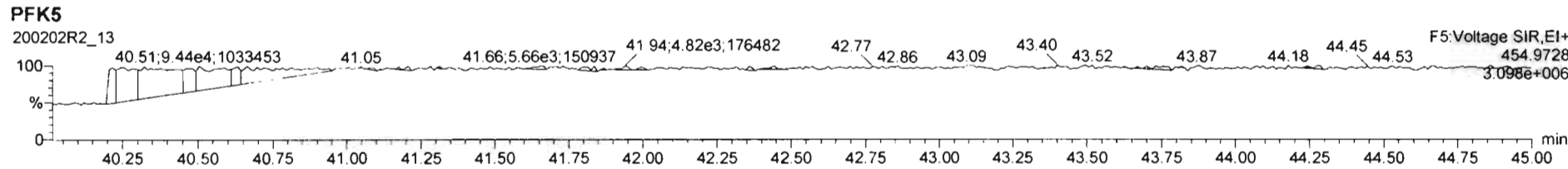
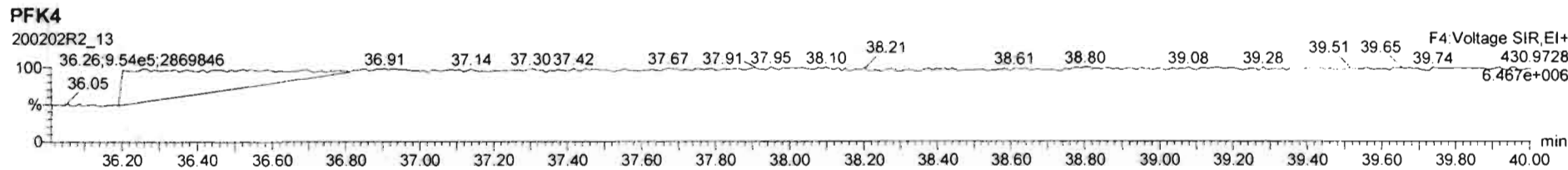
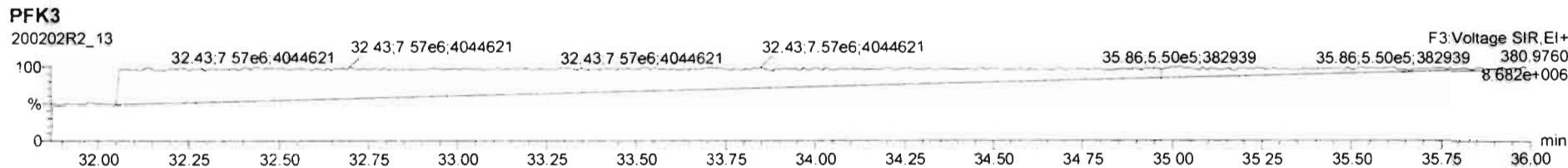
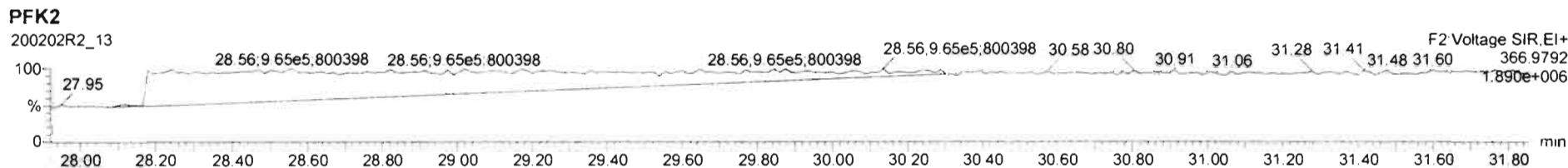
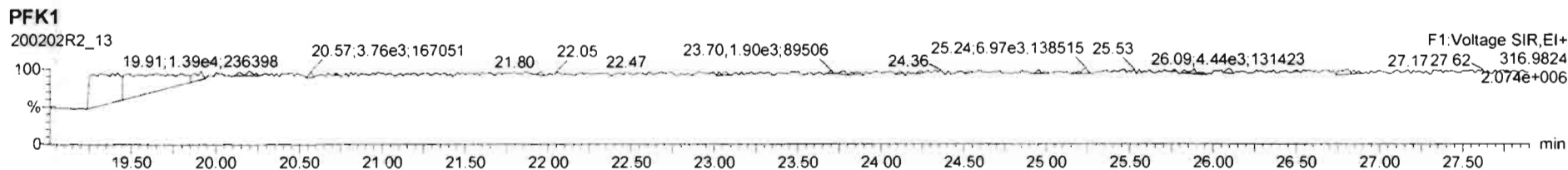
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Last Altered: Monday, February 03, 2020 10:00:33 Pacific Standard Time
Printed: Monday, February 03, 2020 10:00:40 Pacific Standard Time

Name: 200202R2_13, Date: 03-Feb-2020, Time: 07:41:13, ID: 1903827-08 PDI-062SC-B-06-08-191023 14.01, Description: PDI-062SC-B-06-08-191023



CONFIRMATION

Dataset: U:\VG12.PRO\Results\200311R3\200311R3-26.qld

Last Altered: Thursday, March 12, 2020 09:19:14 Pacific Daylight Time

Printed: Thursday, March 12, 2020 09:19:44 Pacific Daylight Time

GRB 03/12/2020

07 03/13/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R3_26, Date: 12-Mar-2020, Time: 04:22:57, ID: 1903827-01RE1 PDI-057SC-B-00-02-191023 19.01, Description: PDI-057SC-B-00-02-191023

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.23e6	0.76	NO	0.821	10.101	16.56	263.17		0.547
2	2 13C-2,3,7,8-TCDF	2.05e6	0.78	NO	1.10	10.101	16.54	140.35	70.9	1.06
3	3 13C-1,2,3,4-TCDF	2.62e6	0.79	NO	1.00	10.101	14.44	198.01	100	1.17

Dataset: Untitled

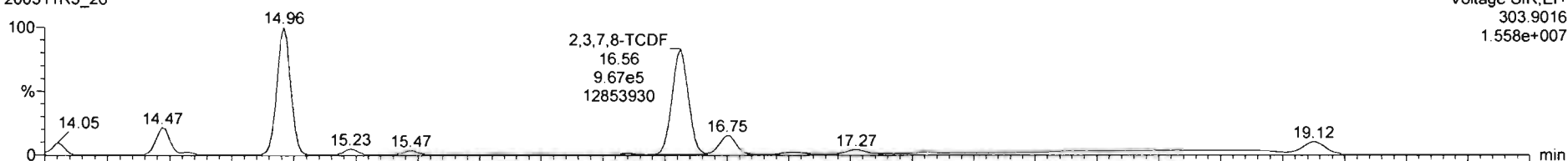
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Printed: Thursday, March 12, 2020 09:19:20 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\ldb225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

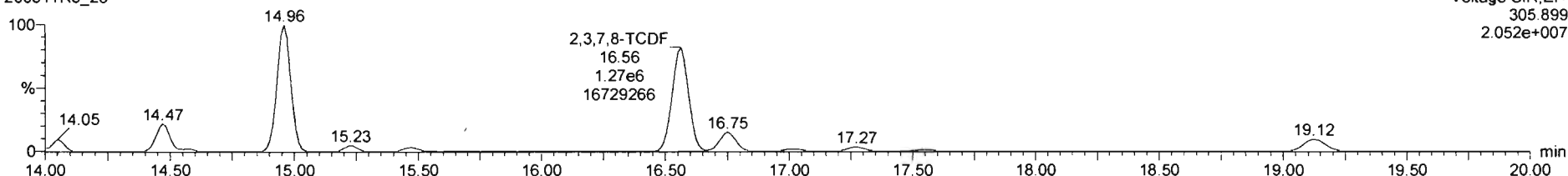
Name: 200311R3_26, Date: 12-Mar-2020, Time: 04:22:57, ID: 1903827-01RE1 PDI-057SC-B-00-02-191023 19.01, Description: PDI-057SC-B-00-02-191023

2,3,7,8-TCDF

200311R3_26

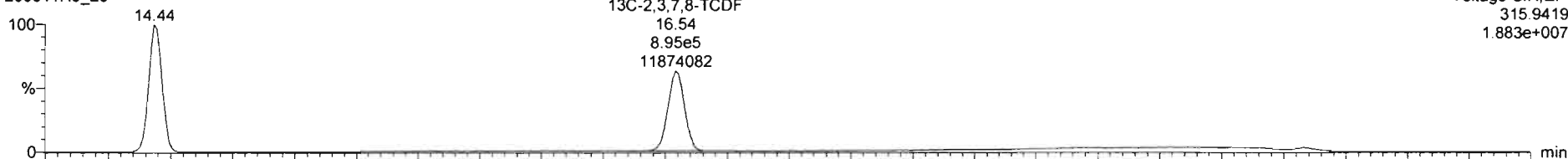


200311R3_26

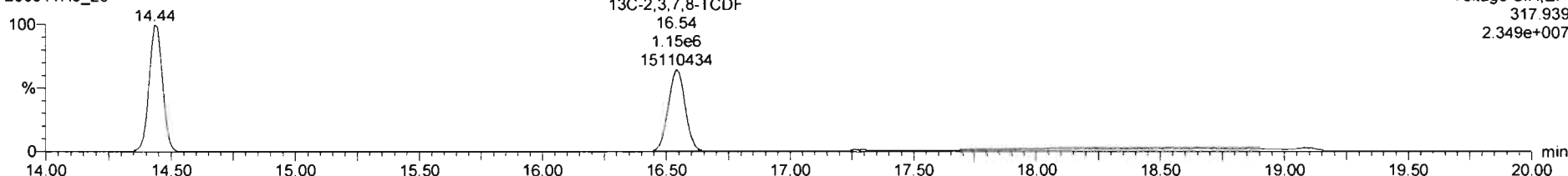


13C-2,3,7,8-TCDF

200311R3_26



200311R3_26



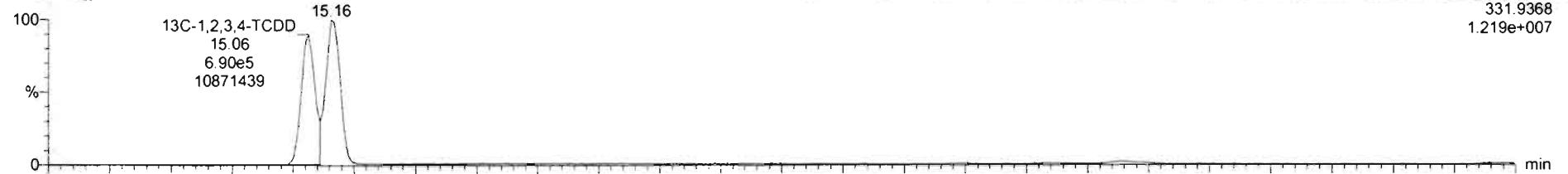
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Printed: Thursday, March 12, 2020 09:19:20 Pacific Daylight Time

Name: 200311R3_26, Date: 12-Mar-2020, Time: 04:22:57, ID: 1903827-01RE1 PDI-057SC-B-00-02-191023 19.01, Description: PDI-057SC-B-00-02-191023

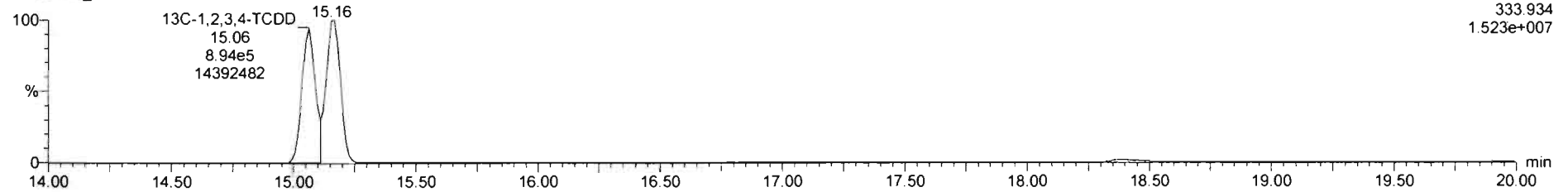
13C-1,2,3,4-TCDD

200311R3_26



Voltage SIR, EI+
331.9368
1.219e+007

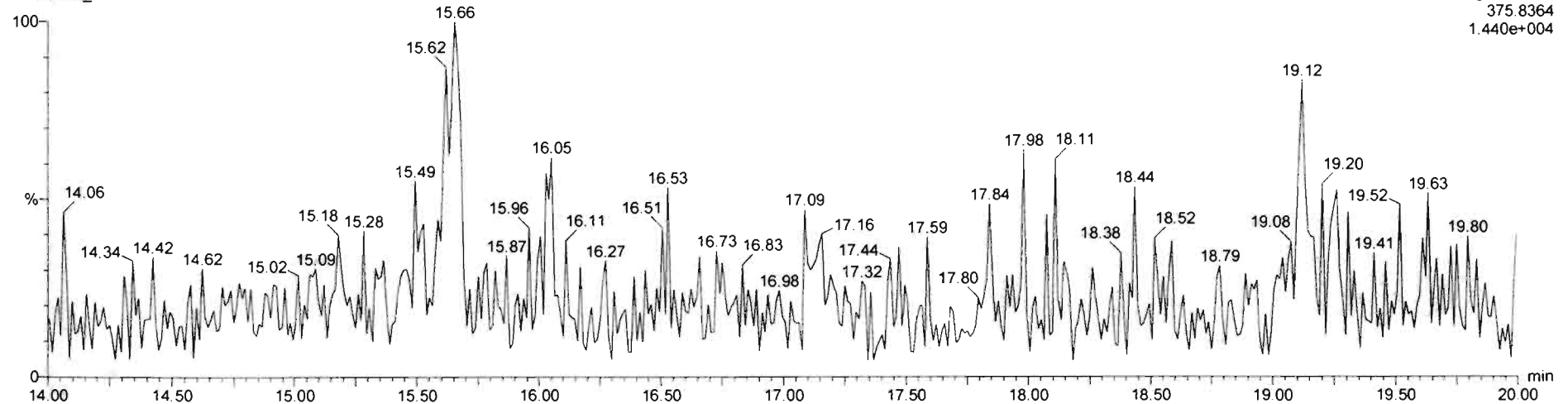
200311R3_26



Voltage SIR, EI+
333.934
1.523e+007

DPE1

200311R3_26



Voltage SIR, EI+
375.8364
1.440e+004

Dataset: U:\VG12.PRO\Results\200311R3\200311R3-27.qld

Last Altered: Thursday, March 12, 2020 09:20:20 Pacific Daylight Time

Printed: Thursday, March 12, 2020 09:20:51 Pacific Daylight Time

GRB 03/12/2020

C7 03/13/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R3_27, Date: 12-Mar-2020, Time: 04:53:25, ID: 1903827-02RE1 PDI-057SC-B-02-04-191023 18.69, Description: PDI-057SC-B-02-04-191023

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	4.21e4	0.76	NO	0.821	10.109	16.56	12.968		1.57
2	2 13C-2,3,7,8-TCDF	7.83e5	0.78	NO	1.10	10.109	16.54	55.798	28.2	0.522
3	3 13C-1,2,3,4-TCDF	2.52e6	0.79	NO	1.00	10.109	14.45	197.85	100	0.575

Dataset: Untitled

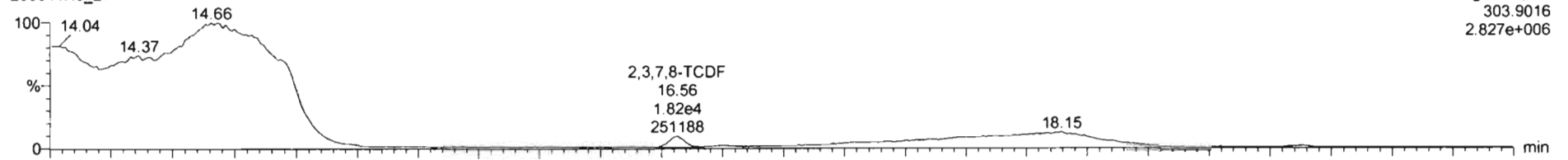
Last Altered: Thursday, March 12, 2020 09:20:20 Pacific Daylight Time
Printed: Thursday, March 12, 2020 09:20:30 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

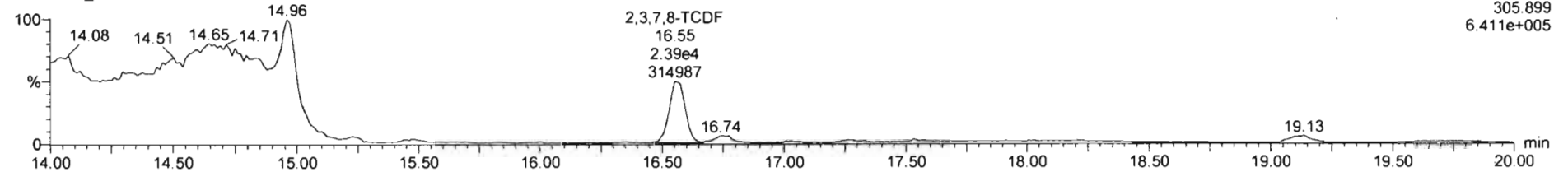
Name: 200311R3_27, Date: 12-Mar-2020, Time: 04:53:25, ID: 1903827-02RE1 PDI-057SC-B-02-04-191023 18.69, Description: PDI-057SC-B-02-04-191023

2,3,7,8-TCDF

200311R3_27

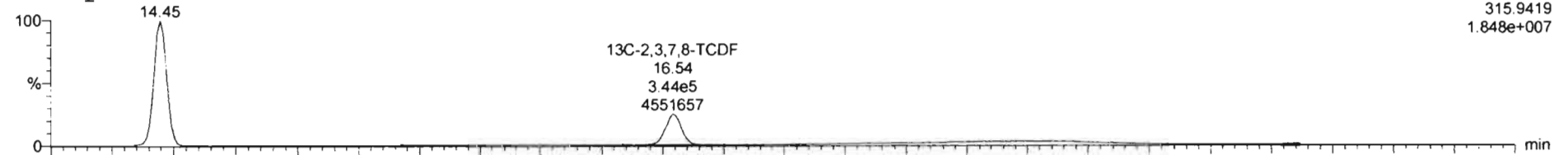


200311R3_27

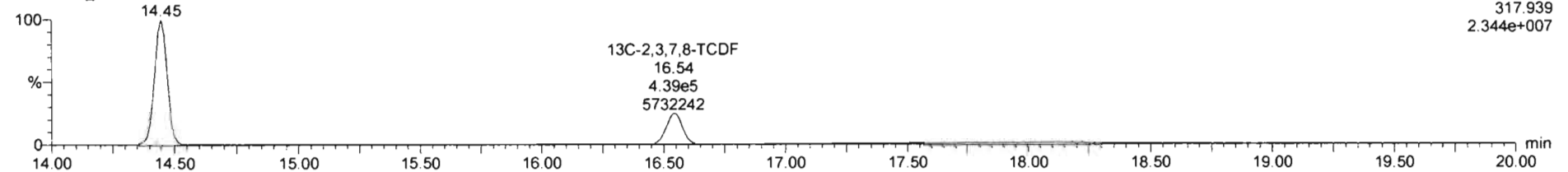


13C-2,3,7,8-TCDF

200311R3_27



200311R3_27



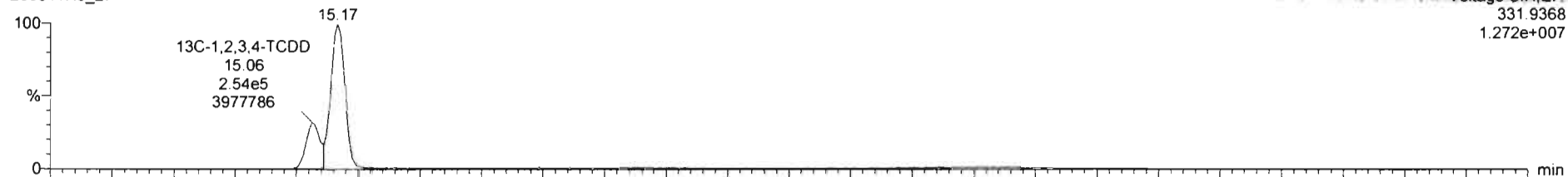
Dataset: Untitled

Last Altered: Thursday, March 12, 2020 09:20:20 Pacific Daylight Time
Printed: Thursday, March 12, 2020 09:20:30 Pacific Daylight Time

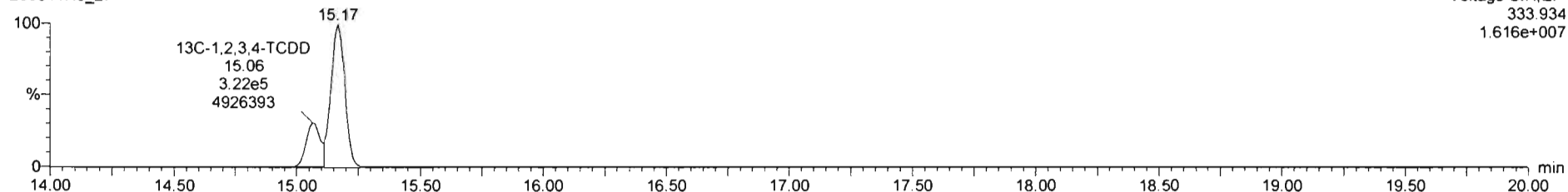
Name: 200311R3_27, Date: 12-Mar-2020, Time: 04:53:25, ID: 1903827-02RE1 PDI-057SC-B-02-04-191023 18.69, Description: PDI-057SC-B-02-04-191023

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

200311R3_27

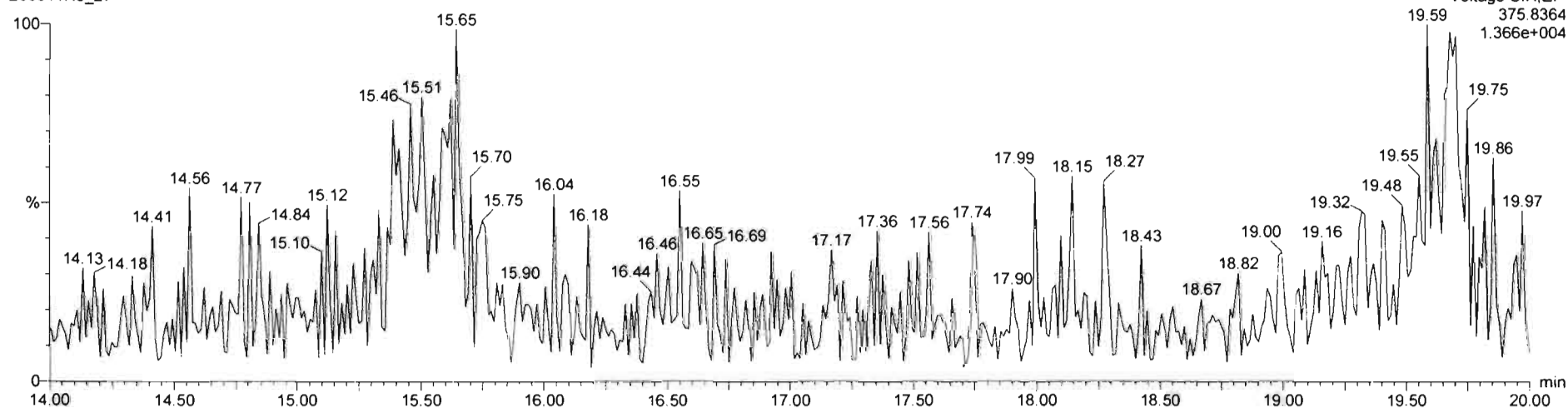


200311R3_27



DPE1

200311R3_27



Dataset: U:\VG12.PRO\Results\200311R3\200311R3-28.qld

Last Altered: Thursday, March 12, 2020 09:21:59 Pacific Daylight Time

Printed: Thursday, March 12, 2020 09:22:25 Pacific Daylight Time

GRB 03/12/2020

07 03/13/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R3_28, Date: 12-Mar-2020, Time: 05:23:51, ID: 1903827-03RE1 PDI-057SC-B-04-06-191023 17.03, Description: PDI-057SC-B-04-06-191023

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	8.45e3	0.84	NO	0.821	10.058	16.56	2.4060		1.01
2	2 13C-2,3,7,8-TCDF	8.50e5	0.77	NO	1.10	10.058	16.54	56.411	28.4	0.759
3	3 13C-1,2,3,4-TCDF	2.72e6	0.79	NO	1.00	10.058	14.46	198.85	100	0.836

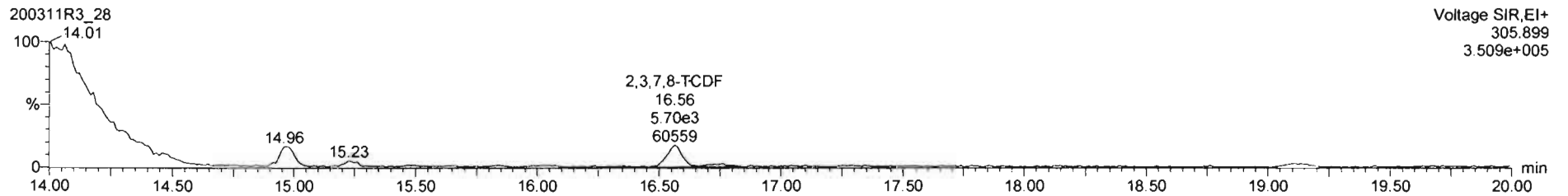
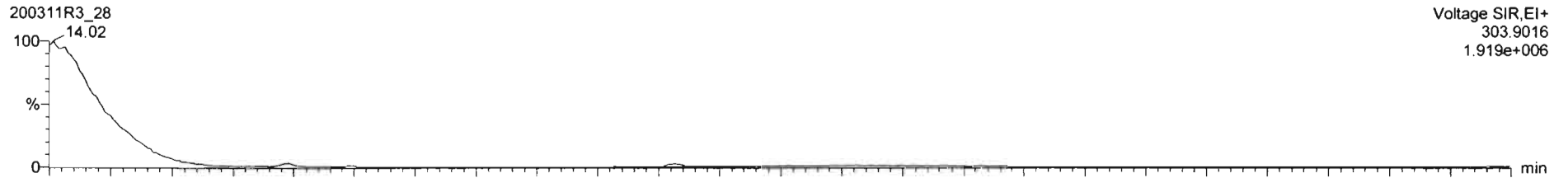
Dataset: Untitled

Last Altered: Thursday, March 12, 2020 09:21:01 Pacific Daylight Time
Printed: Thursday, March 12, 2020 09:21:07 Pacific Daylight Time

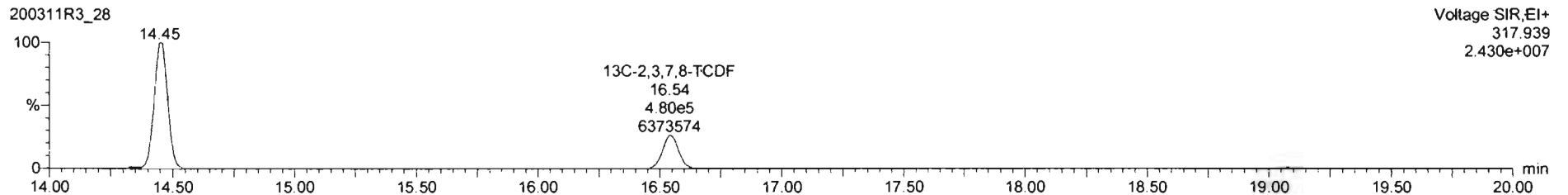
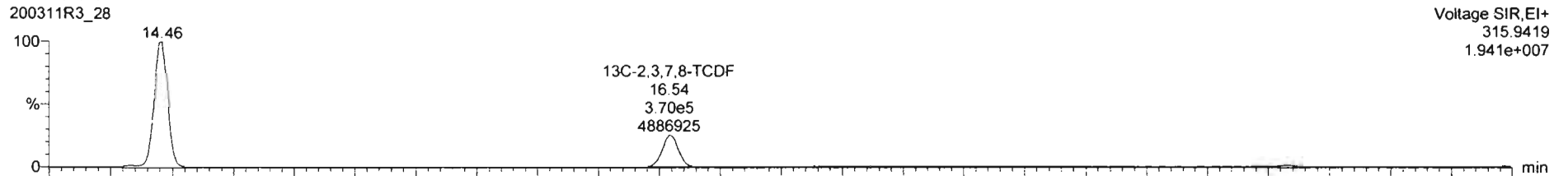
Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R3_28, Date: 12-Mar-2020, Time: 05:23:51, ID: 1903827-03RE1 PDI-057SC-B-04-06-191023 17.03, Description: PDI-057SC-B-04-06-191023

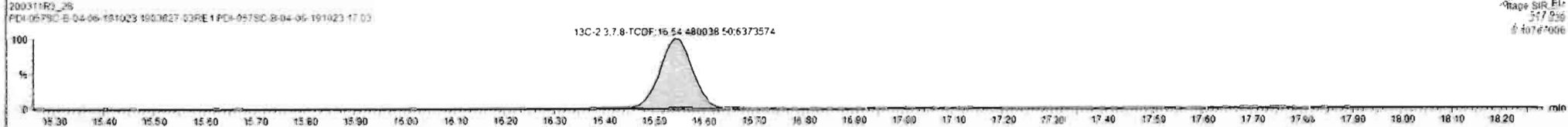
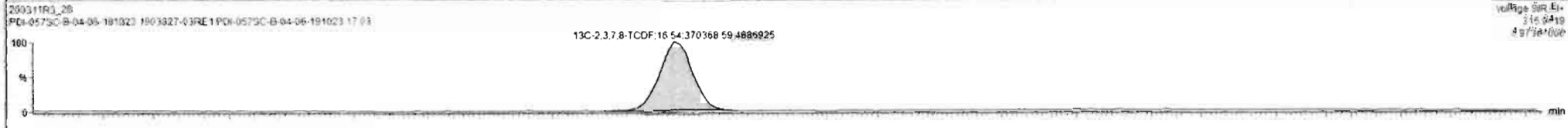
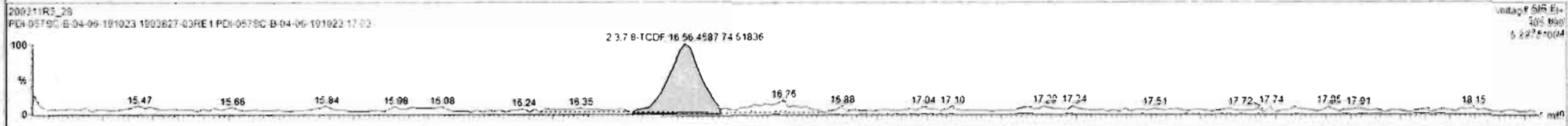
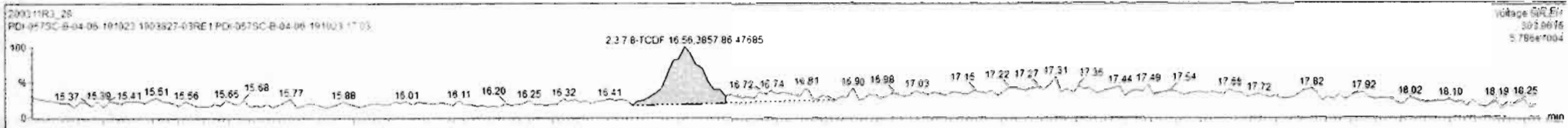
2,3,7,8-TCDF



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



#	Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDF	8.45e3	0.64	NO	0.82	10.058	16.56	1.001	2.41	1.01	2.41	
2	13C-2,3,7,8-TCDF	8.50e6	0.77	NO	1.10	10.058	16.54	1.144	56.4	28.4	0.759	
3	13C-1,2,3,4-TCDF	2.72e6	0.79	NO	1.00	10.058	14.46	1.000	199	100	0.836	
4	13C-1,2,3,4-TCDD	8.21e5	0.77	NO	11994	10.058	15.08	0.900	5.15	2.59	0.0364	
5	PFK1											
6	DPE1					1.000						



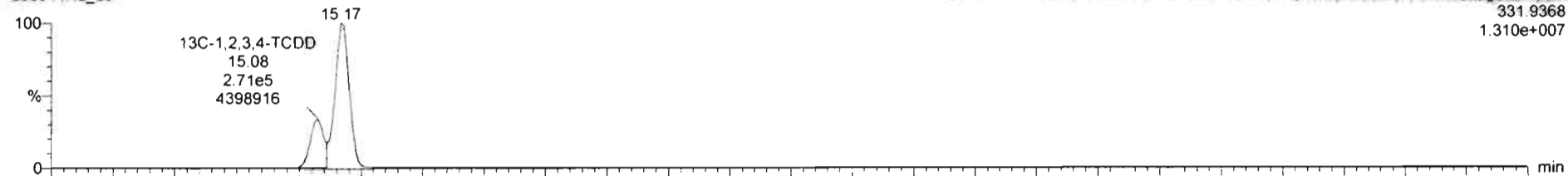
Dataset: Untitled

Last Altered: Thursday, March 12, 2020 09:21:01 Pacific Daylight Time
Printed: Thursday, March 12, 2020 09:21:07 Pacific Daylight Time

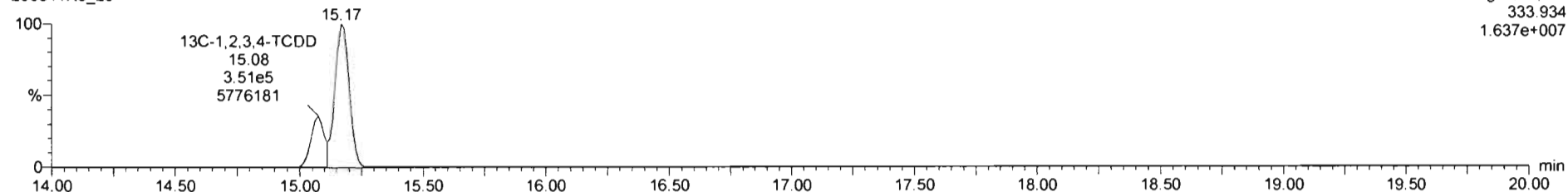
Name: 200311R3_28, Date: 12-Mar-2020, Time: 05:23:51, ID: 1903827-03RE1 PDI-057SC-B-04-06-191023 17.03, Description: PDI-057SC-B-04-06-191023

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

200311R3_28

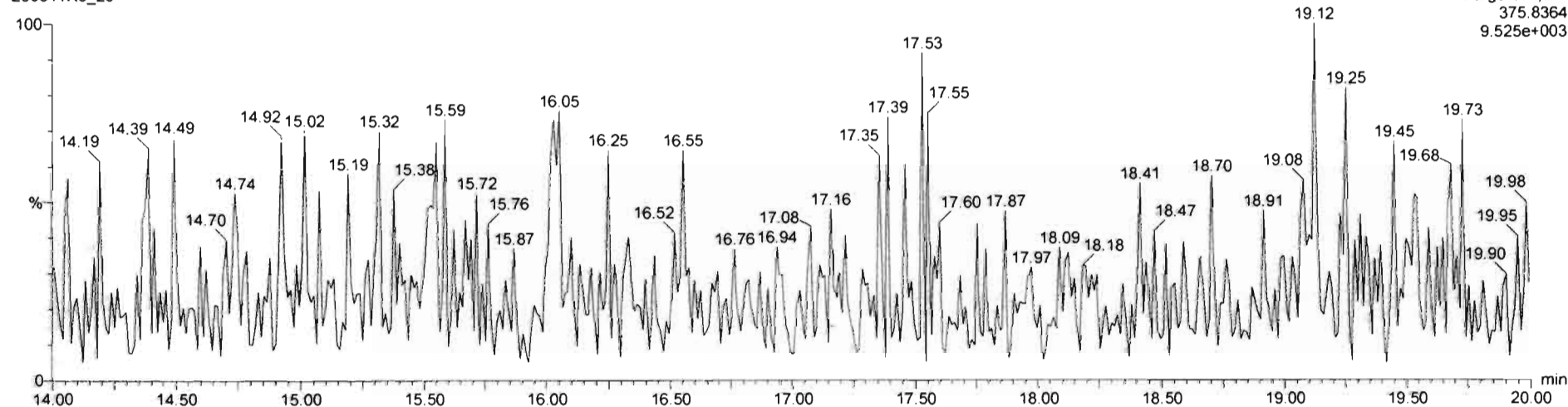


200311R3_28



DPE1

200311R3_28



Dataset: U:\VG7.PRO\Results\200324D1\200324D1_11.qld

Last Altered: Tuesday, March 24, 2020 16:07:02 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 16:08:04 Pacific Daylight Time

DB 3/24/20 C1703/25/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_11, Date: 24-Mar-2020, Time: 15:40:10, ID: 1903827-05RE4 PDI-062SC-B-00-02-191023 17.29, Description: PDI-062SC-B-00-02-191023

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	3.99e3	0.74	NO	0.982	10.003	17.864	17.87	1.000	1.001	8.5205		0.721	8.52
2	2 13C-2,3,7,8-TCDF	9.53e4	0.80	NO	1.08	10.003	17.863	17.84	1.133	1.136	151.98	76.0	1.23	
3	3 13C-1,2,3,4-TCDF	1.16e5	0.80	NO	1.00	10.003	15.660	15.70	1.000	1.000	199.93	100	1.34	

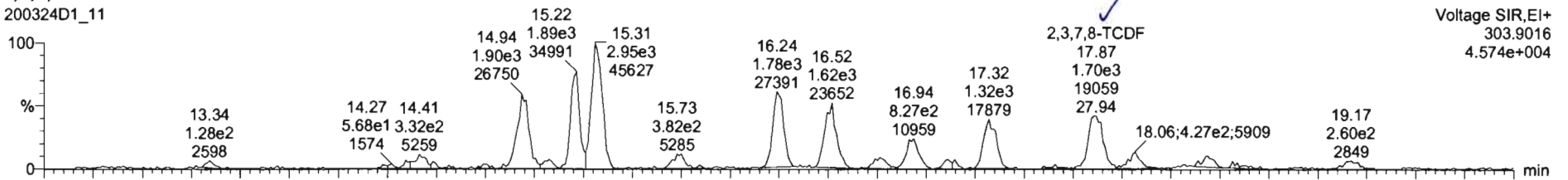
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_11.qld

Last Altered: Tuesday, March 24, 2020 16:07:02 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 16:08:26 Pacific Daylight Time

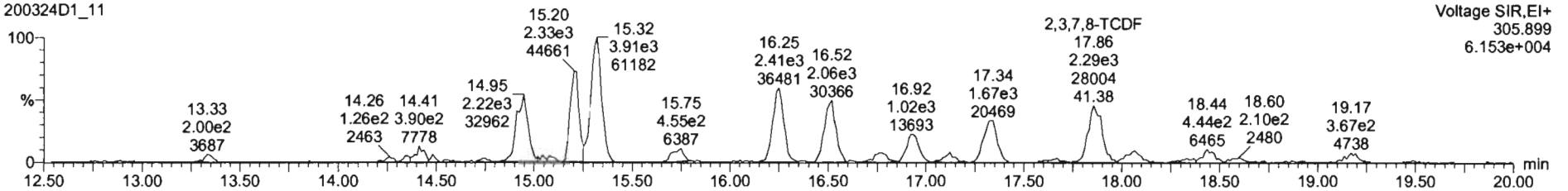
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_11, Date: 24-Mar-2020, Time: 15:40:10, ID: 1903827-05RE4 PDI-062SC-B-00-02-191023 17.29, Description: PDI-062SC-B-00-02-191023

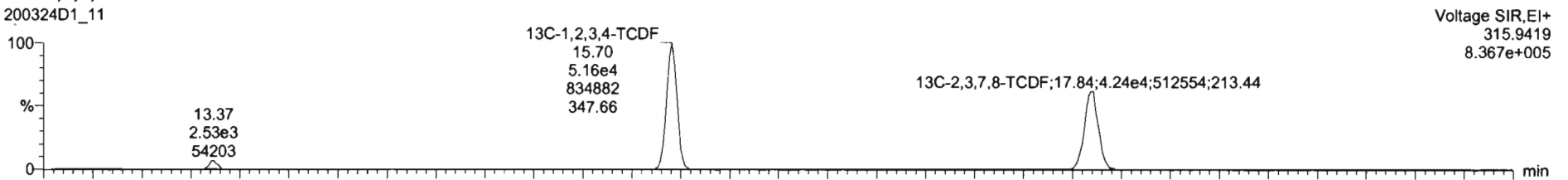
2,3,7,8-TCDF
200324D1_11



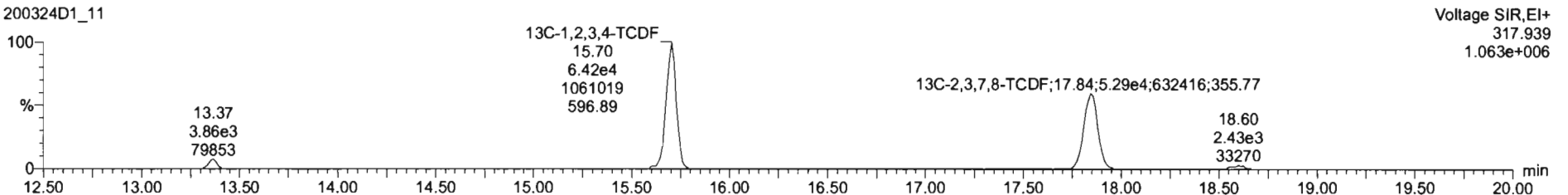
200324D1_11



13C-2,3,7,8-TCDF
200324D1_11



200324D1_11



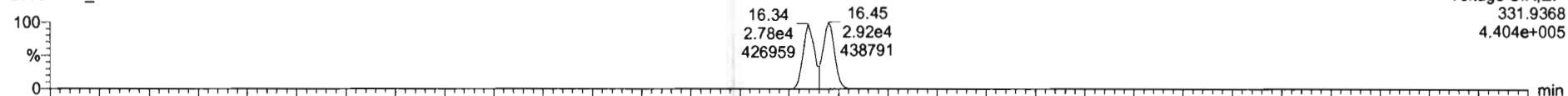
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_11.qld

Last Altered: Tuesday, March 24, 2020 16:07:02 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 16:08:26 Pacific Daylight Time

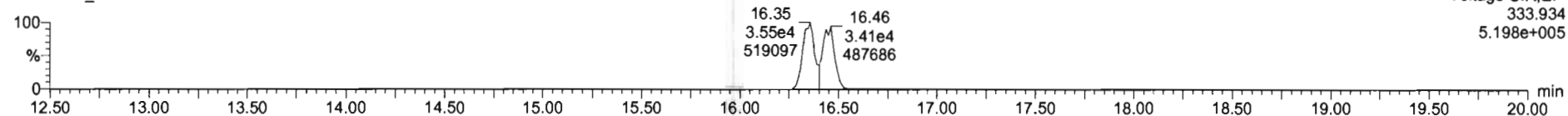
Name: 200324D1_11, Date: 24-Mar-2020, Time: 15:40:10, ID: 1903827-05RE4 PDI-062SC-B-00-02-191023 17.29, Description: PDI-062SC-B-00-02-191023

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

200324D1_11

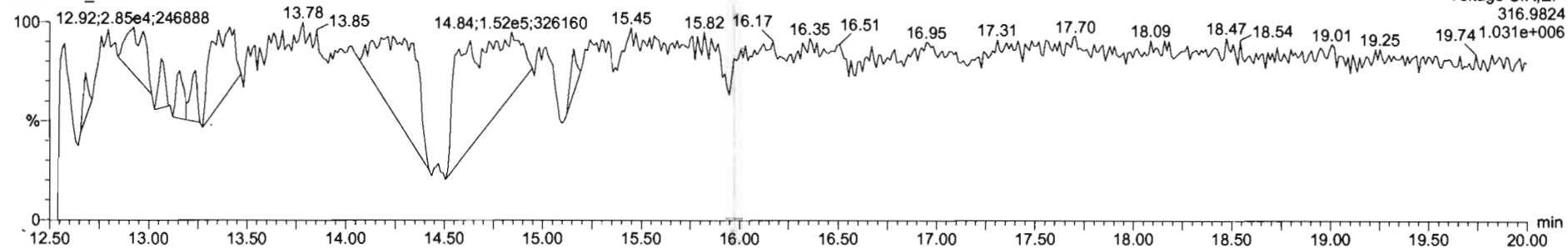


200324D1_11



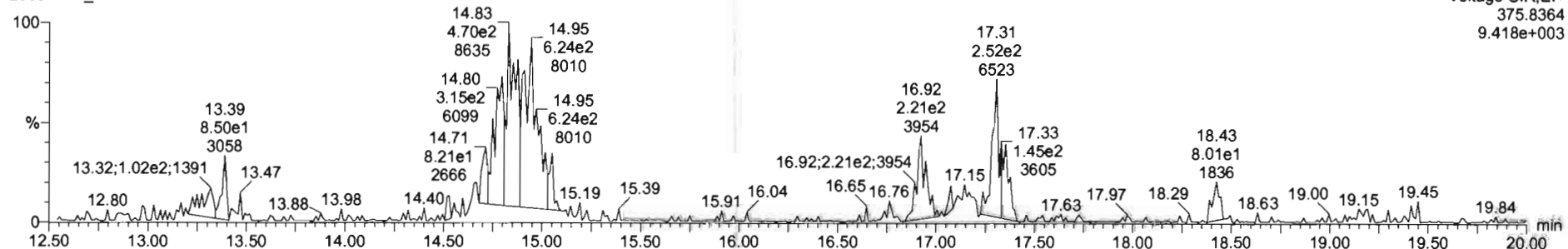
PFK1

200324D1_11



DPE1

200324D1_11



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200202R1-1

Reviewed By: C7 02/04/2020
Initials & Date

End Calibration ID: NA

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

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

Intergrated peaks display correctly?

GC Break <20% NA

8280 CS1 End Standard:

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

Comments:
 (A) END. RES CHECK HAS ONE MASS BELOW 10K.

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

Dataset: U:\VG12.PRO\Results\200202R1\200202r1-1.qld

Last Altered: Monday, February 03, 2020 10:55:26 Pacific Standard Time
Printed: Monday, February 03, 2020 10:55:56 Pacific Standard Time

GRB 02/03/2020

CT 02/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Area	IS Resp	RA	Qty	Resp	Publ RT	RT	RT Flag	Pred/RT	RRT	Delta	Area	S/D
1	2,3,7,8-TCDD	1.24e5	1.25e6	0.77	NO	0.988	25.74	25.72	NO	1.001	1.001	10.049	100	NO
2	1,2,3,7,8-PeCDD	4.50e5	9.79e5	0.63	NO	0.972	30.66	30.65	NO	1.001	1.001	47.249	94.5	NO
3	1,2,3,4,7,8-HxCDD	4.16e5	7.69e5	1.22	NO	1.07	34.00	34.00	NO	1.000	1.000	50.513	101	NO
4	1,2,3,6,7,8-HxCDD	4.21e5	9.58e5	1.23	NO	0.921	34.08	34.10	NO	1.000	1.001	47.769	95.5	NO
5	1,2,3,7,8,9-HxCDD	3.95e5	8.72e5	1.25	NO	0.918	34.41	34.38	NO	1.001	1.000	49.302	98.6	NO
6	1,2,3,4,6,7,8-HpCDD	2.97e5	6.51e5	1.01	NO	0.923	37.92	37.92	NO	1.000	1.000	49.532	99.1	NO
7	OCDD	5.90e5	1.23e6	0.89	NO	0.975	40.91	40.92	NO	1.000	1.000	98.659	98.7	NO
8	2,3,7,8-TCDF	1.40e5	1.78e6	0.71	NO	0.802	24.85	24.84	NO	1.001	1.001	9.7761	97.8	NO
9	1,2,3,7,8-PeCDF	7.15e5	1.57e6	1.54	NO	0.907	29.38	29.37	NO	1.001	1.001	50.222	100	NO
10	2,3,4,7,8-PeCDF	7.09e5	1.48e6	1.54	NO	0.952	30.36	30.35	NO	1.001	1.001	50.354	101	NO
11	1,2,3,4,7,8-HxCDF	4.44e5	1.00e6	1.19	NO	0.862	33.11	33.13	NO	1.000	1.001	51.310	103	NO
12	1,2,3,6,7,8-HxCDF	5.02e5	1.15e6	1.16	NO	0.841	33.25	33.25	NO	1.000	1.000	52.069	104	NO
13	2,3,4,6,7,8-HxCDF	4.76e5	1.03e6	1.19	NO	0.898	33.85	33.83	NO	1.001	1.000	51.224	102	NO
14	1,2,3,7,8,9-HxCDF	3.80e5	8.78e5	1.19	NO	0.858	34.72	34.73	NO	1.000	1.000	50.481	101	NO
15	1,2,3,4,6,7,8-HpCDF	3.22e5	7.40e5	0.97	NO	0.851	36.51	36.48	NO	1.001	1.000	51.175	102	NO
16	1,2,3,4,7,8,9-HpCDF	2.63e5	5.25e5	0.96	NO	0.980	38.49	38.51	NO	1.000	1.001	51.096	102	NO
17	OCDF	5.86e5	1.44e6	0.87	NO	0.806	41.10	41.10	NO	1.000	1.000	100.80	101	NO
18	13C-2,3,7,8-TCDD	1.25e6	1.05e6	0.79	NO	1.20	25.71	25.70	NO	1.026	1.026	99.292	99.3	NO
19	13C-1,2,3,7,8-PeCDD	9.79e5	1.05e6	0.63	NO	0.967	30.45	30.64	NO	1.215	1.222	96.592	96.6	NO
20	13C-1,2,3,4,7,8-HxCDD	7.69e5	9.87e5	1.27	NO	0.874	33.98	33.99	NO	1.014	1.014	89.172	89.2	NO
21	13C-1,2,3,6,7,8-HxCDD	9.58e5	9.87e5	1.26	NO	1.05	34.08	34.08	NO	1.017	1.017	92.779	92.8	NO
22	13C-1,2,3,7,8,9-HxCDD	8.72e5	9.87e5	1.26	NO	0.974	34.38	34.37	NO	1.026	1.026	90.707	90.7	NO
23	13C-1,2,3,4,6,7,8-HpCDD	6.51e5	9.87e5	1.06	NO	0.747	37.93	37.91	NO	1.132	1.131	88.212	88.2	NO
24	13C-OCDD	1.23e6	9.87e5	0.87	NO	0.707	40.81	40.91	NO	1.218	1.221	176.14	88.1	NO
25	13C-2,3,7,8-TCDF	1.78e6	1.65e6	0.78	NO	1.07	24.89	24.82	NO	0.993	0.990	101.06	101	NO
26	13C-1,2,3,7,8-PeCDF	1.57e6	1.65e6	1.60	NO	1.00	29.22	29.35	NO	1.166	1.171	94.685	94.7	NO
27	13C-2,3,4,7,8-PeCDF	1.48e6	1.65e6	1.58	NO	0.962	30.17	30.33	NO	1.204	1.210	92.960	93.0	NO
28	13C-1,2,3,4,7,8-HxCDF	1.00e6	9.87e5	0.50	NO	1.05	33.11	33.11	NO	0.988	0.988	97.011	97.0	NO
29	13C-1,2,3,6,7,8-HxCDF	1.15e6	9.87e5	0.51	NO	1.19	33.21	33.24	NO	0.991	0.992	97.663	97.7	NO
30	13C-2,3,4,6,7,8-HxCDF	1.03e6	9.87e5	0.51	NO	1.07	33.81	33.82	NO	1.009	1.009	98.256	98.3	NO
31	13C-1,2,3,7,8,9-HxCDF	8.78e5	9.87e5	0.52	NO	0.922	34.71	34.72	NO	1.036	1.036	96.485	96.5	NO

Dataset: U:\VG12.PRO\Results\200202R1\200202r1-1.qld

Last Altered: Monday, February 03, 2020 10:55:26 Pacific Standard Time

Printed: Monday, February 03, 2020 10:55:56 Pacific Standard Time

Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

Peak	Label	Area	IS Flag	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	7.40e5	9.87e5	0.44	NO	0.767	36.46	36.47	NO	1.088	1.088	97.695	97.7	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.25e5	9.87e5	0.43	NO	0.552	38.47	38.49	NO	1.148	1.149	96.260	96.3	NO
34	34 13C-OCDF	1.44e6	9.87e5	0.87	NO	0.789	41.05	41.10	NO	1.225	1.227	185.17	92.6	NO
35	35 37Cl-2,3,7,8-TCDD	1.23e5	1.05e6			1.18	25.74	25.72	NO	1.027	1.026	9.9905	99.9	NO
36	36 13C-1,2,3,4-TCDD	1.05e6	1.05e6	0.82	NO	1.00	25.08	25.06	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.65e6	1.65e6	0.79	NO	1.00	23.42	23.40	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	9.87e5	9.87e5	0.51	NO	1.00	33.52	33.51	NO	1.000	1.000	100.00	100	YES <i>OK</i>
39	39 Total Tetra-Dioxins		1.25e6			0.988	24.62		NO	0.000		86.453		NO
40	40 Total Penta-Dioxins		9.79e5			0.972	29.96		NO	0.000		211.80		NO
41	41 Total Hexa-Dioxins		0.00e0			0.921	33.63		NO	0.000		246.97		NO
42	42 Total Hepta-Dioxins		6.51e5			0.923	37.64		NO	0.000		134.93		NO
43	43 Total Tetra-Furans		1.78e6			0.802	23.61		NO	0.000		48.820		NO
44	44 1st Func. Penta-Furans		0.00e0			0.907	27.09		NO	0.000				NO
45	45 Total Penta-Furans		0.00e0			0.907	29.27		NO	0.000		172.77		NO
46	46 Total Hexa-Furans		0.00e0			0.898	33.56		NO	0.000		287.30		NO
47	47 Total Hepta-Furans		0.00e0			0.851	37.83		NO	0.000		102.27		NO

Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:47:55 Pacific Standard Time

Printed: Monday, February 03, 2020 10:48:01 Pacific Standard Time

Method: U:\VG12.PROMethDB\CPSM.mdb 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.77
2	2 1,2,8,9-TCDD (Last)	26.68
3	3 1,2,4,7,9-PeCDD (First)	28.45
4	4 1,2,3,8,9-PeCDD (Last)	31.03
5	5 1,2,4,6,7,9-HxCDD (First)	32.52
6	6 1,2,3,7,8,9-HxCDD (Last)	34.38
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.87
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.92
9	9 1,3,6,8-TCDF (First)	19.66
10	10 1,2,8,9-TCDF (Last)	26.83
11	11 1,3,4,6,8-PeCDF (First)	26.78
12	12 1,2,3,8,9-PeCDF (Last)	31.28
13	13 1,2,3,4,6,8-HxCDF (First)	31.96
14	14 1,2,3,7,8,9-HxCDF (Last)	34.73
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.48
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.51

Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:49:24 Pacific Standard Time

Printed: Monday, February 03, 2020 10:49:36 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

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

	Name	ID	Acq.Date	Acq.Time
1	200202R1_1	ST200202R1_1 1613 CS3 19L2305	02-Feb-20	10:22:59
2	200202R1_2	B0A0056-BS1 OPR 10	02-Feb-20	11:11:34
3	200202R1_3	SOLVENT BLANK	02-Feb-20	11:57:59
4	200202R1_4	B0A0056-BLK1 Method Blank 10	02-Feb-20	12:44:53
5	200202R1_5	1904161-16RE1 PDI-066SC-A-06-07-191011 ...	02-Feb-20	13:31:53
6	200202R1_6	1903654-01 PDI-073SC-B-00-02-191013 15.31	02-Feb-20	14:18:55
7	200202R1_7	1903654-02 PDI-073SC-B-02-04-191013 15.72	02-Feb-20	15:05:54
8	200202R1_8	1903654-03 PDI-073SC-B-04-06-191013 12.66	02-Feb-20	15:52:51
9	200202R1_9	1903654-04 PDI-073SC-B-06-08-191013 15.45	02-Feb-20	16:39:50
10	200202R1_10	1903654-05 PDI-075SC-B-00-02-191013 20.19	02-Feb-20	17:26:51
11	200202R1_11	1903654-06 PDI-075SC-B-02-04-191013 17.76	02-Feb-20	18:13:46
12	200202R1_12	B0A0056-DUP1 Duplicate 16.6	02-Feb-20	19:00:52
13	200202R1_13	1903654-07 PDI-075SC-B-04-06-191013 16.7	02-Feb-20	19:47:53
14	200202R1_14	1903654-08 PDI-075SC-B-06-08-191013 16.33	02-Feb-20	20:34:53
15	200202R1_15	1903654-09 PDI-076SC-B-00-02-191013 18.3	02-Feb-20	21:21:52

Experiment Calibration Report

MassLynx 4.1 SCN815

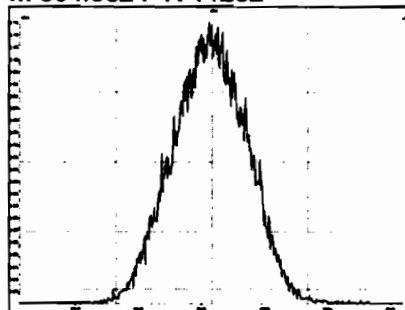
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Sunday, February 02, 2020 10:18:54 Pacific Standard Time

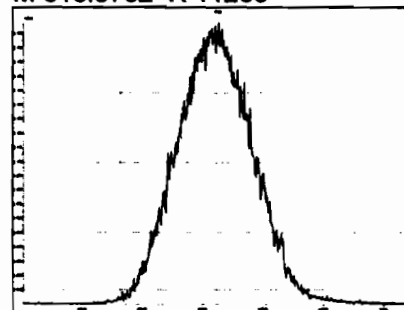
M 292.9824 R 11016



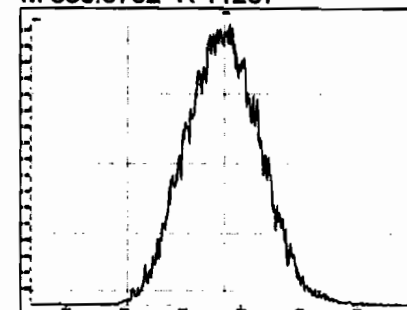
M 304.9824 R 11262



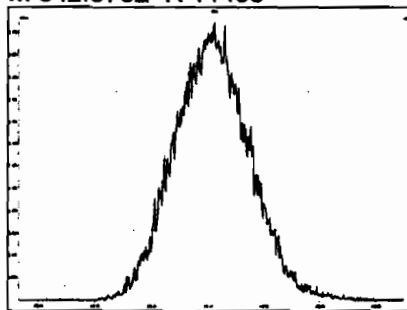
M 318.9792 R 11209



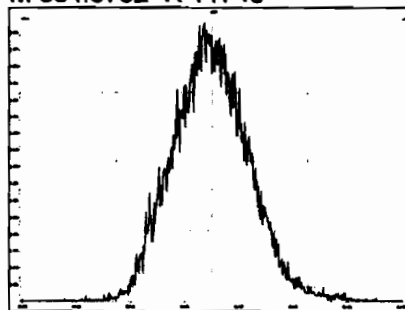
M 330.9792 R 11207



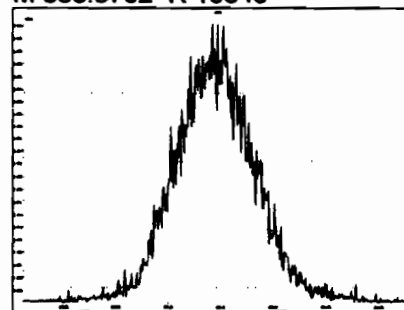
M 342.9792 R 11468



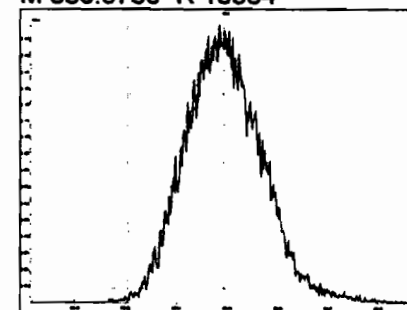
M 354.9792 R 11740



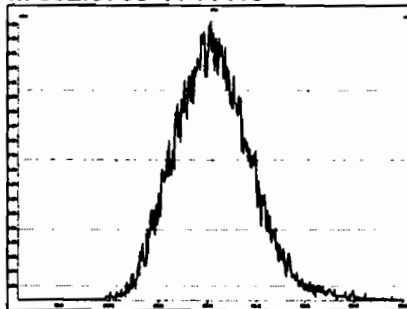
M 366.9792 R 10549



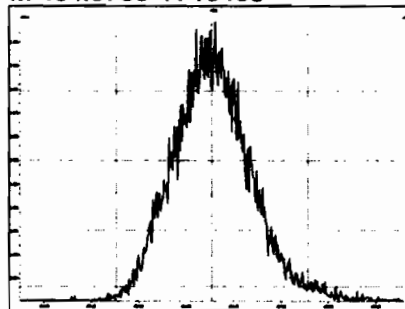
M 380.9760 R 10964



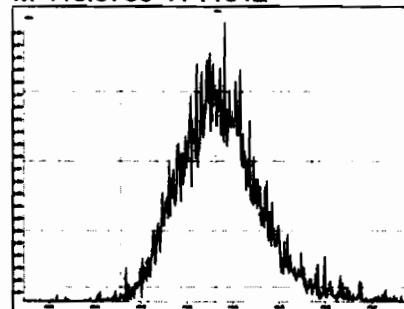
M 392.9760 R 11413



M 404.9760 R 10460



M 416.9760 R 11012



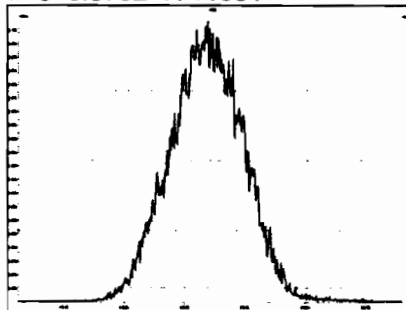
Experiment Calibration Report

MassLynx 4.1 SCN815

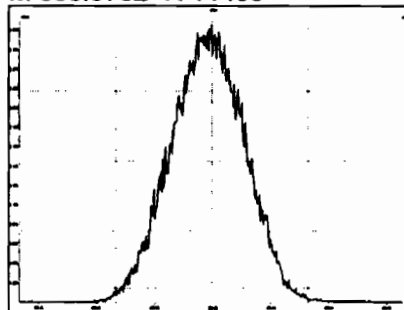
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Sunday, February 02, 2020 10:20:32 Pacific Standard Time

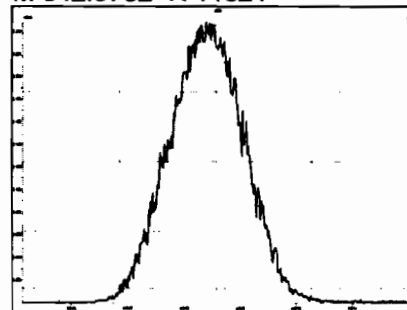
M 318.9792 R 11681



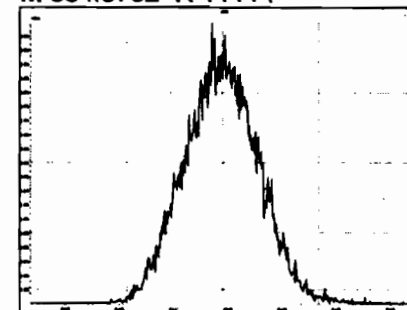
M 330.9792 R 11465



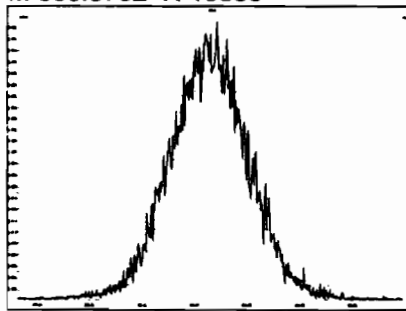
M 342.9792 R 11521



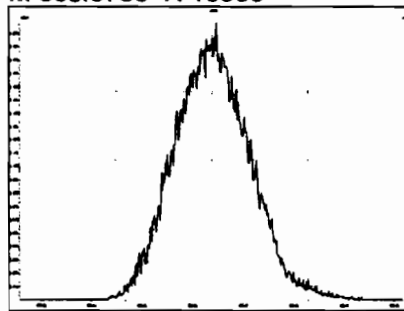
M 354.9792 R 11114



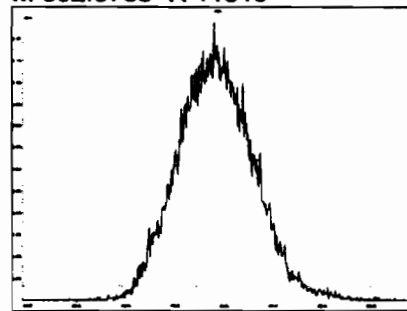
M 366.9792 R 10680



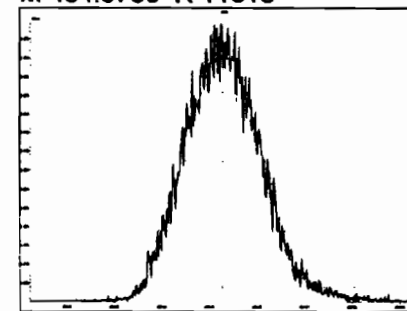
M 380.9760 R 10965



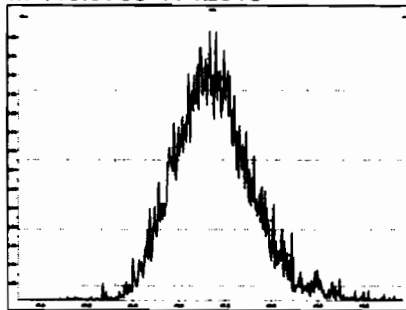
M 392.9760 R 11315



M 404.9760 R 11313



M 416.9760 R 12018



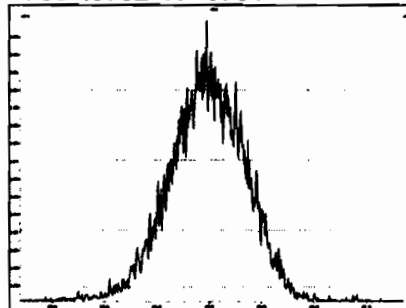
Experiment Calibration Report

MassLynx 4.1 SCN815

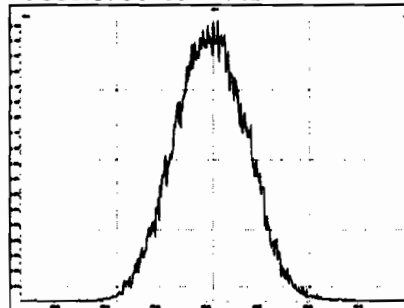
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Sunday, February 02, 2020 10:21:10 Pacific Standard Time

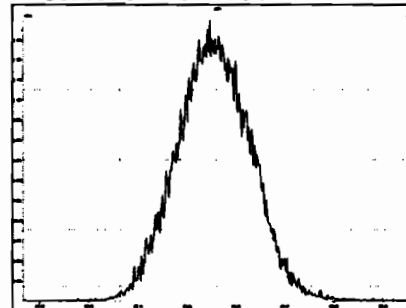
M 366.9792 R 10731



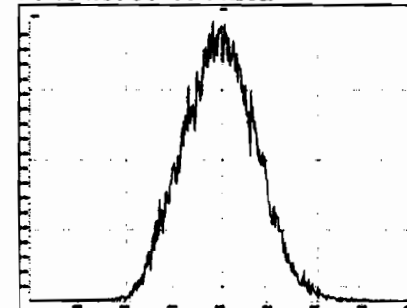
M 380.9760 R 11312



M 392.9760 R 11361



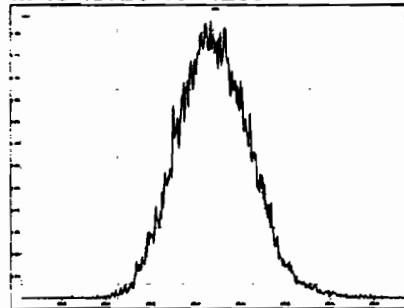
M 404.9760 R 11262



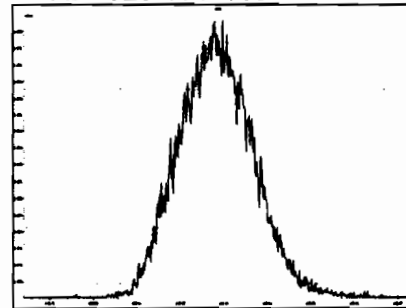
M 416.9760 R 11367



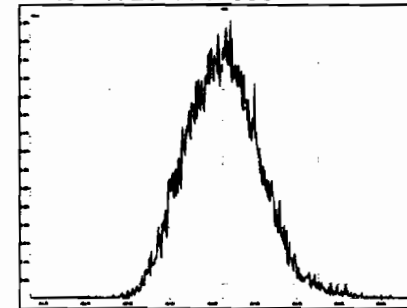
M 430.9728 R 11259



M 442.9728 R 11905



M 454.9728 R 10963



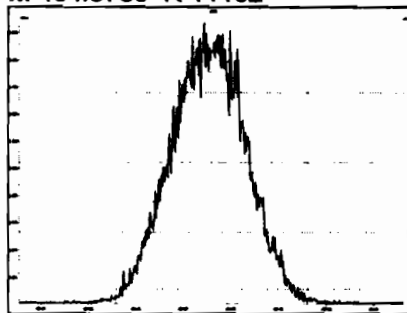
Experiment Calibration Report

MassLynx 4.1 SCN815

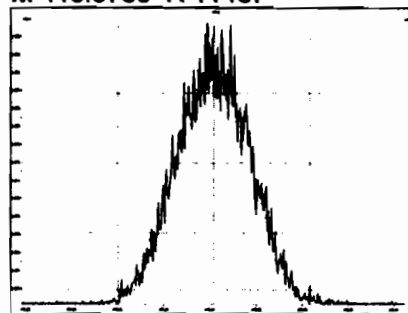
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Sunday, February 02, 2020 10:21:40 Pacific Standard Time

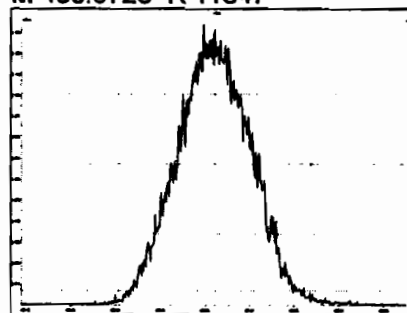
M 404.9760 R 11162



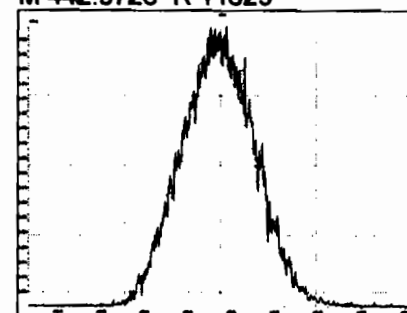
M 416.9760 R 11467



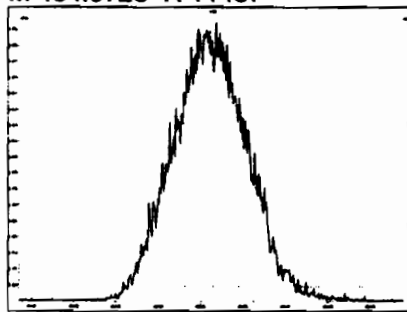
M 430.9728 R 11847



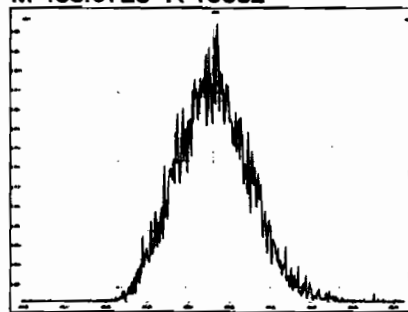
M 442.9728 R 11629



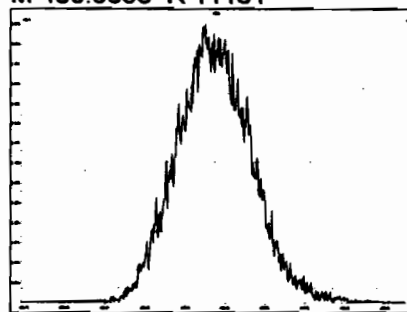
M 454.9728 R 11467



M 466.9728 R 10682



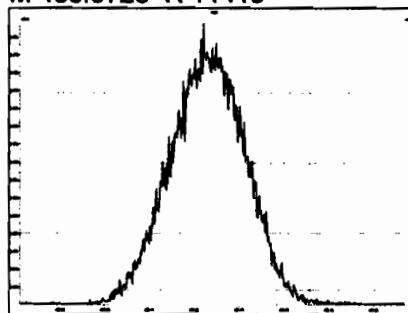
M 480.9696 R 11161



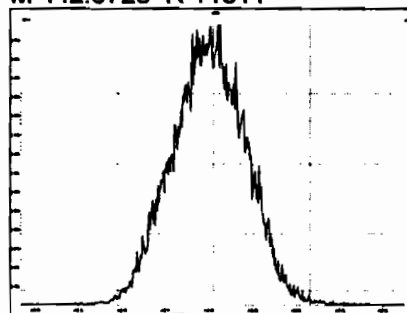
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Sunday, February 02, 2020 10:22:13 Pacific Standard Time

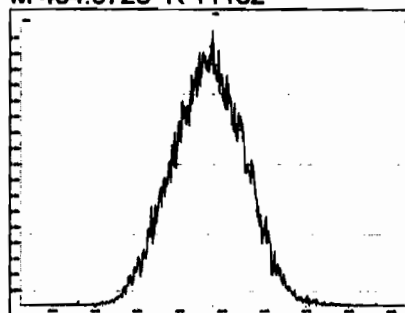
M 430.9728 R 11415



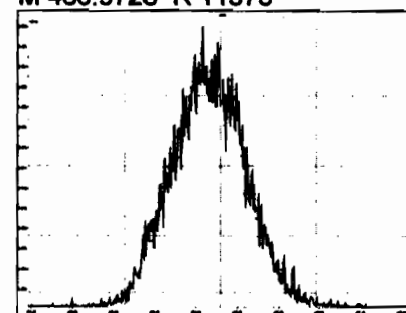
M 442.9728 R 11311



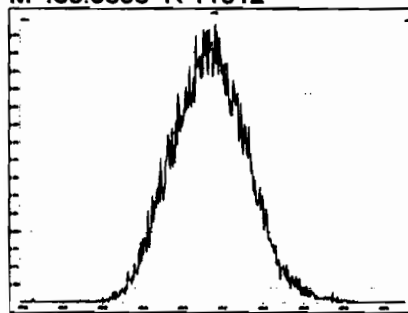
M 454.9728 R 11162



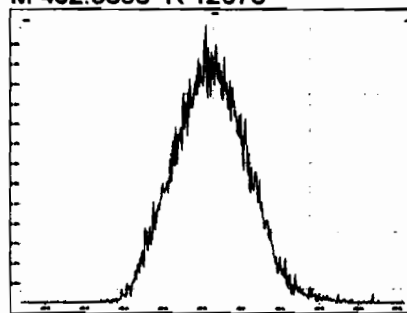
M 466.9728 R 11573



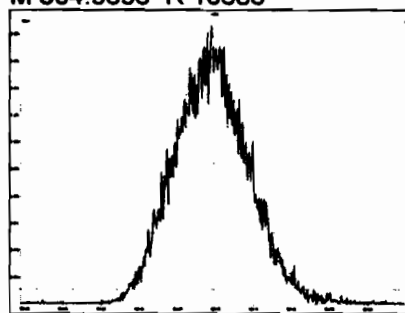
M 480.9696 R 11012



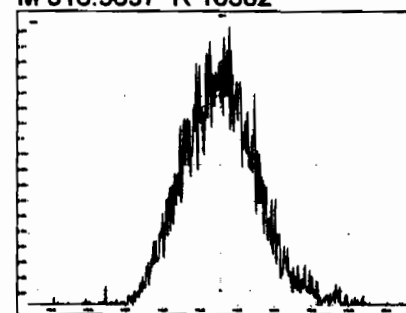
M 492.9696 R 12078



M 504.9696 R 10683



M 516.9697 R 10502



Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:47:55 Pacific Standard Time
Printed: Monday, February 03, 2020 10:48:01 Pacific Standard Time

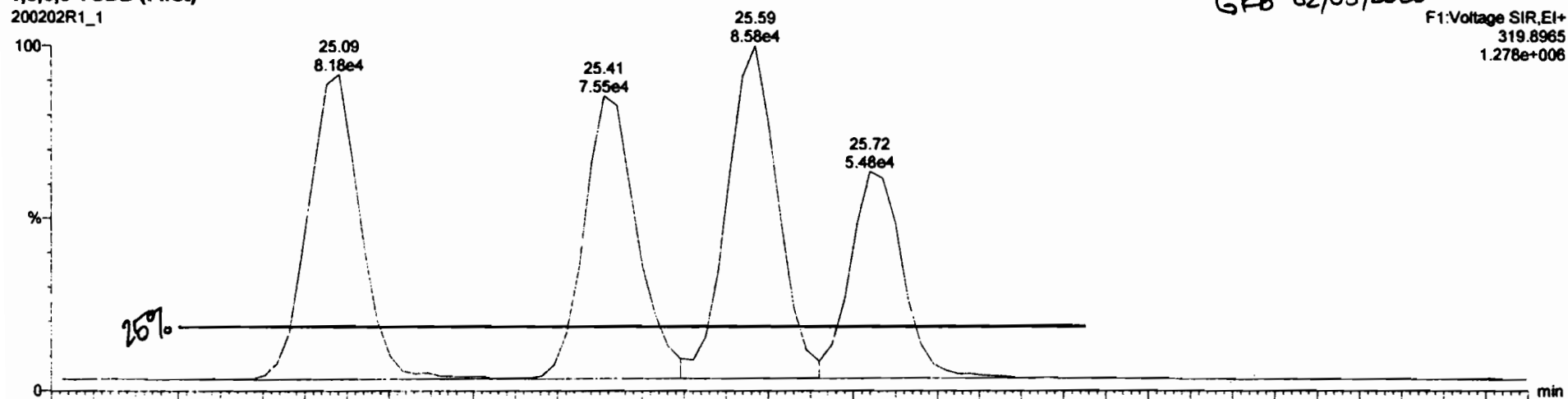
Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200202R1_1

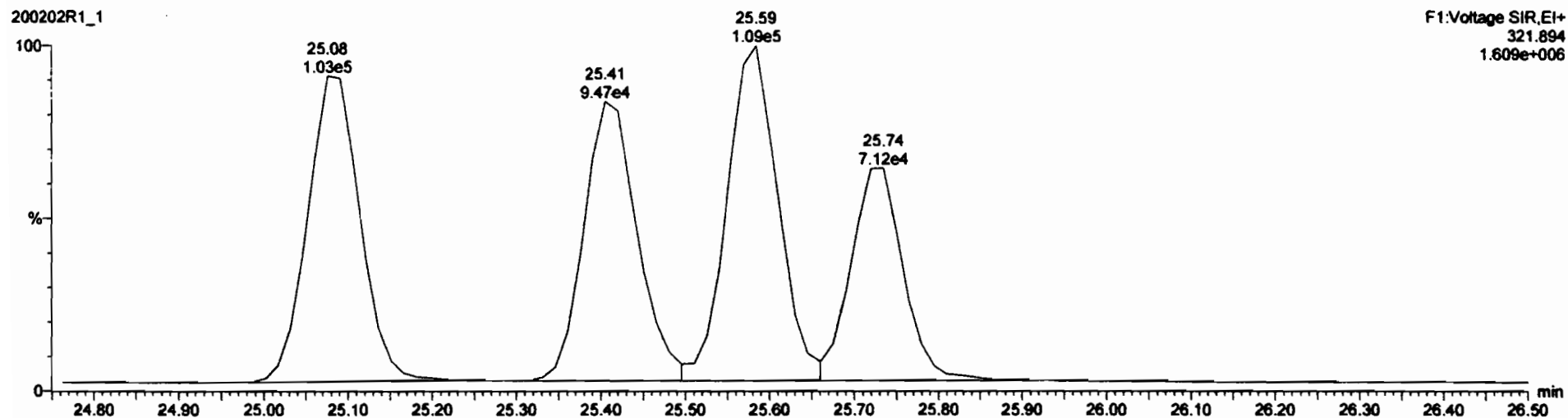
GPB 02/03/2020

F1:Voltage SIR, EI+
319.8965
1.278e+006



200202R1_1

F1:Voltage SIR, EI+
321.894
1.609e+006



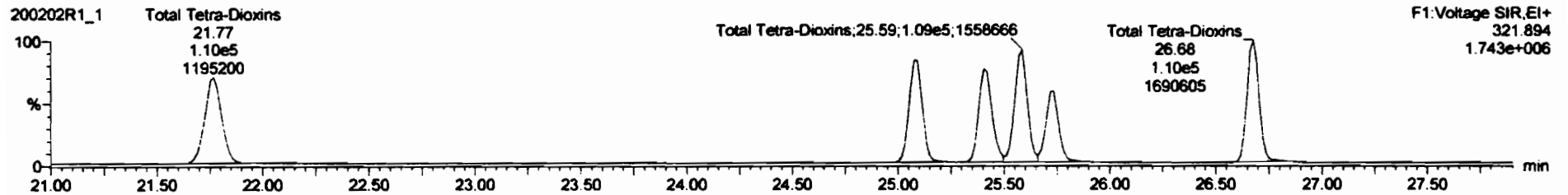
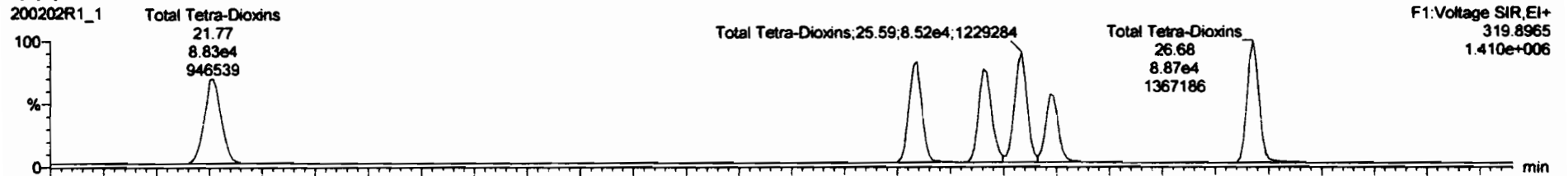
Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:46:43 Pacific Standard Time
Printed: Monday, February 03, 2020 10:46:53 Pacific Standard Time

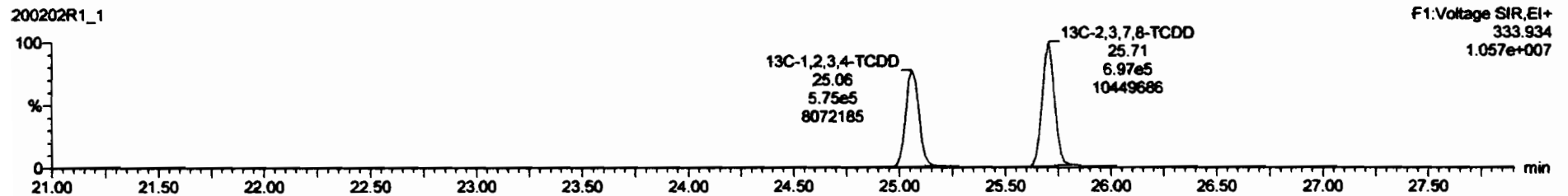
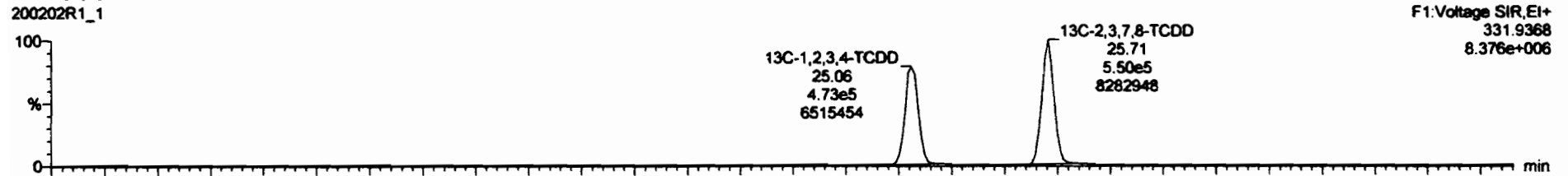
Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\vb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



¹³C-2,3,7,8-TCDD



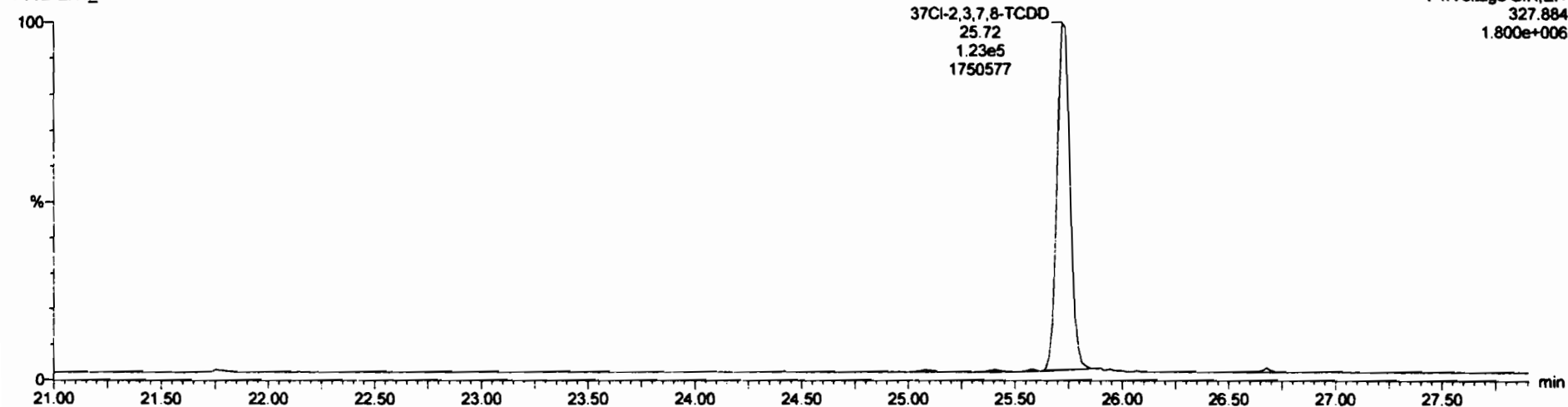
Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:46:43 Pacific Standard Time
Printed: Monday, February 03, 2020 10:46:53 Pacific Standard Time

Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

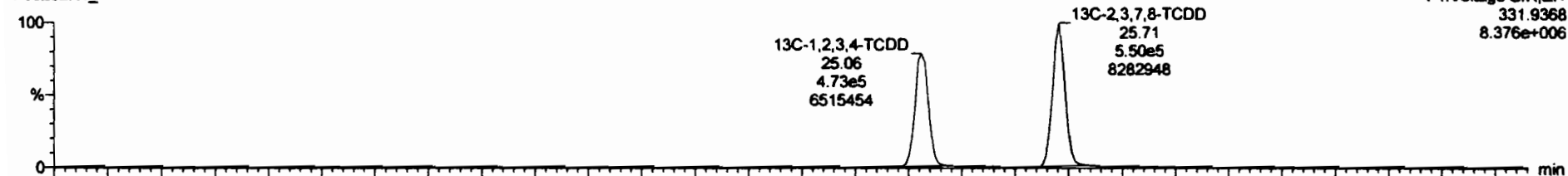
37Cl-2,3,7,8-TCDD

200202R1_1

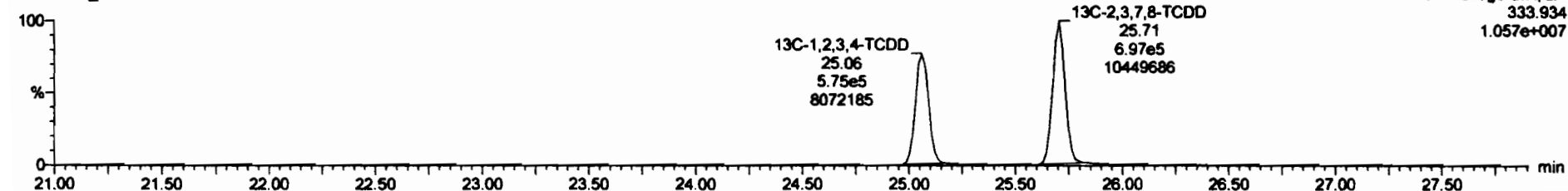


13C-1,2,3,4-TCDD

200202R1_1



200202R1_1



Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:46:43 Pacific Standard Time

Printed: Monday, February 03, 2020 10:46:53 Pacific Standard Time

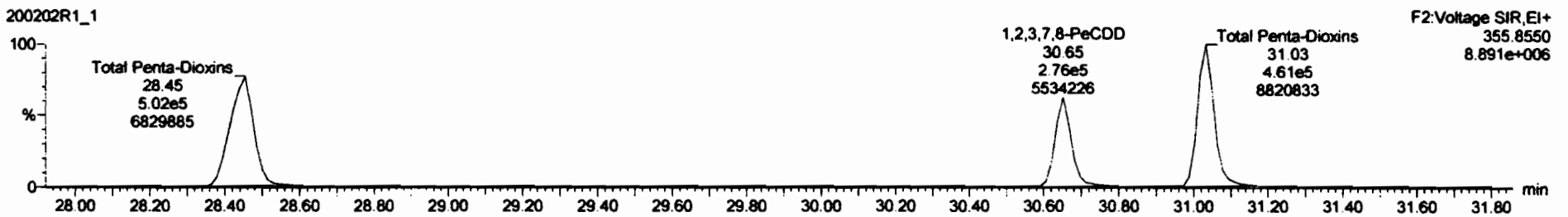
Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200202R1_1



200202R1_1

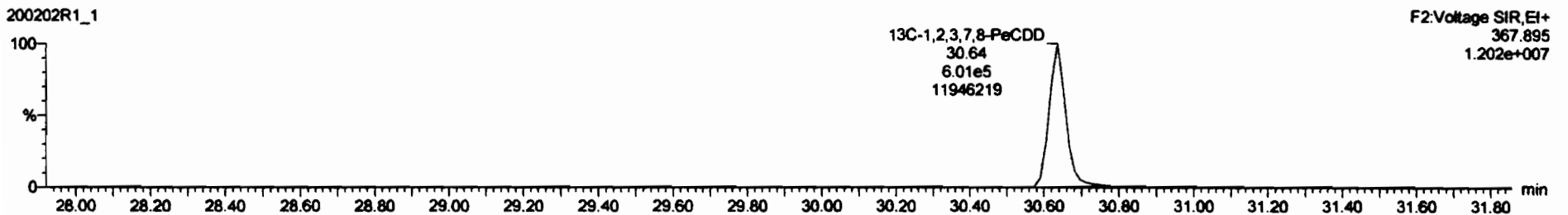


13C-1,2,3,7,8-PeCDD

200202R1_1



200202R1_1



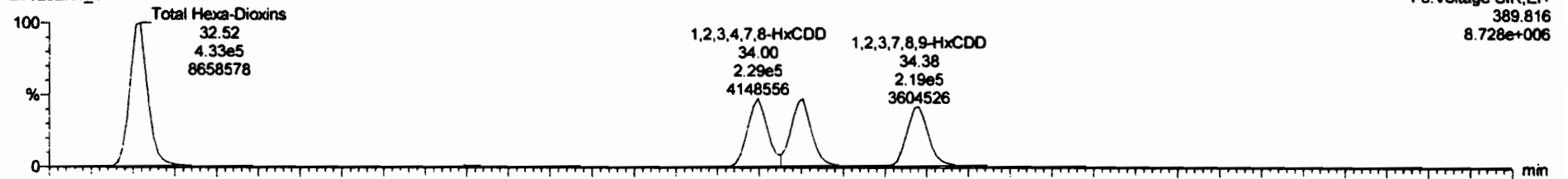
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Last Altered: Monday, February 03, 2020 10:46:43 Pacific Standard Time
Printed: Monday, February 03, 2020 10:46:53 Pacific Standard Time

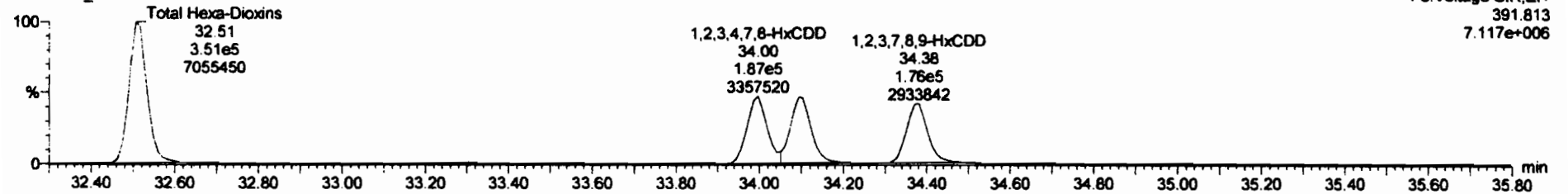
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1,2,3,4,7,8-HxCDD

200202R1_1

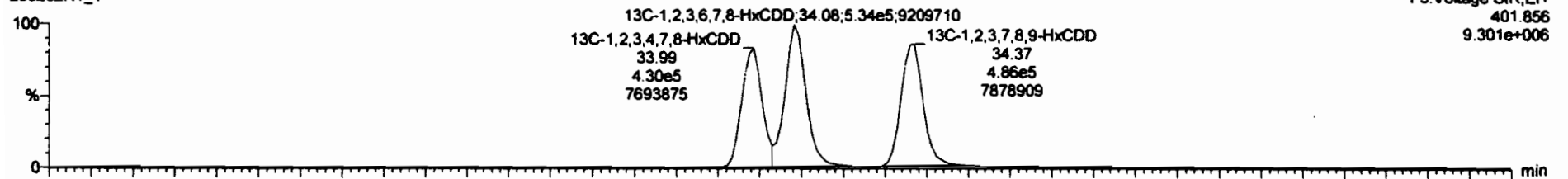


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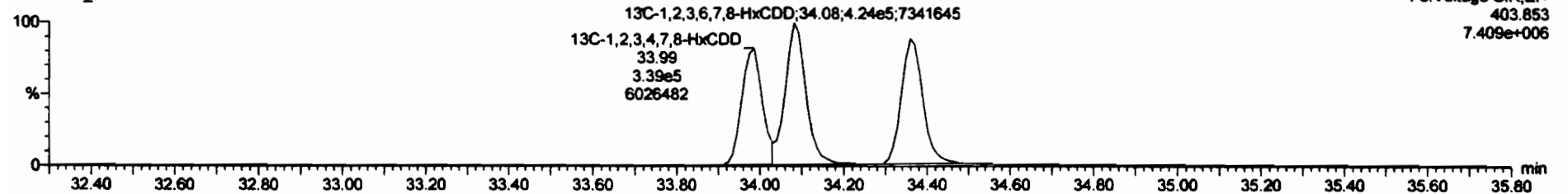


13C-1,2,3,4,7,8-HxCDD

200202R1_1



200202R1_1



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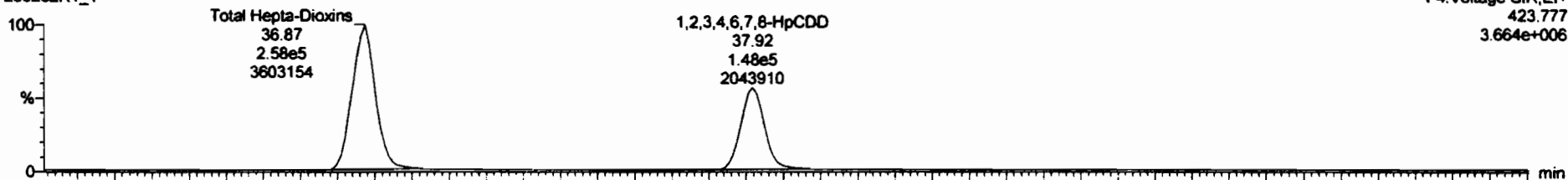
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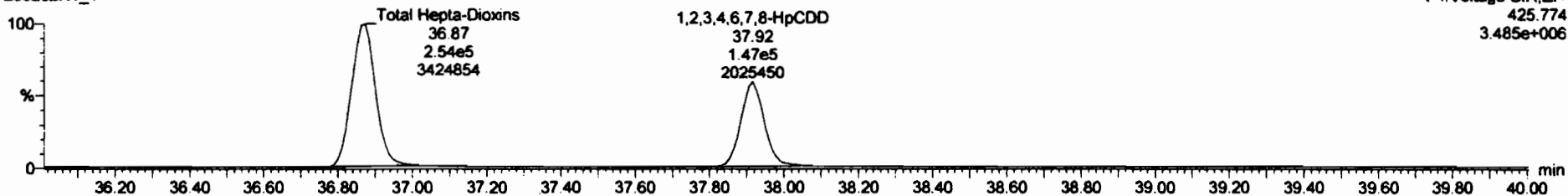
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1,2,3,4,6,7,8-HpCDD

200202R1_1

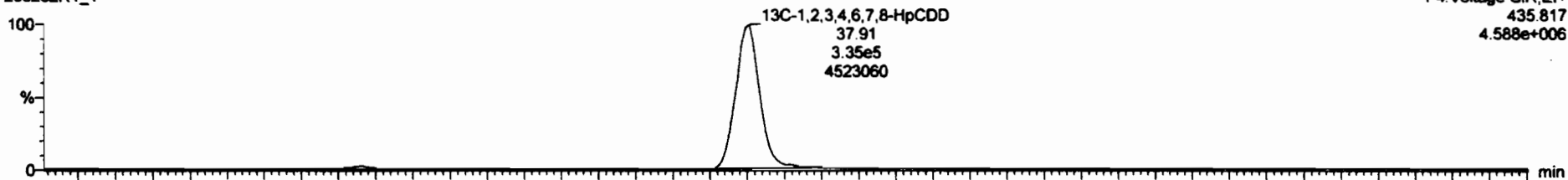


200202R1_1

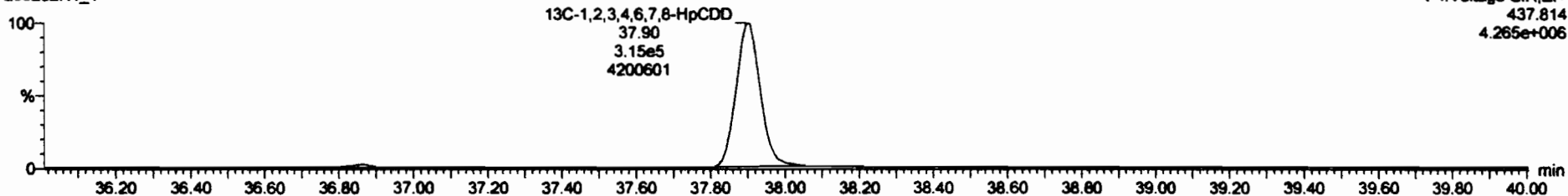


13C-1,2,3,4,6,7,8-HpCDD

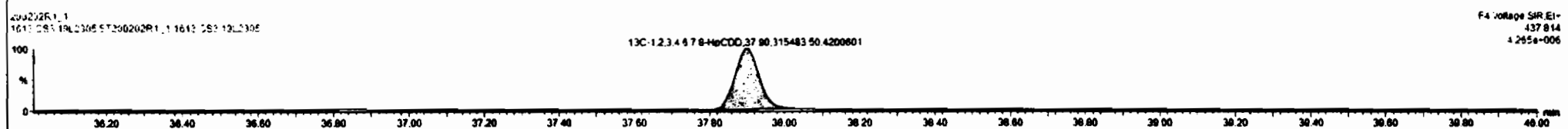
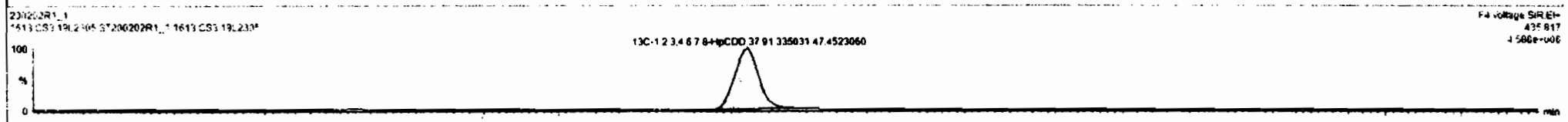
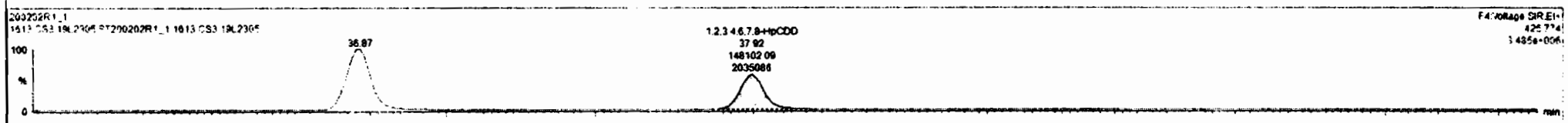
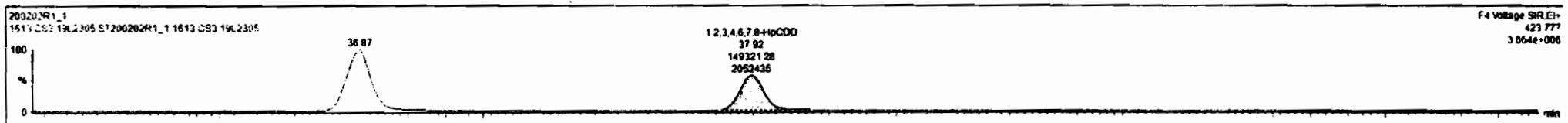
200202R1_1



200202R1_1



#	Peak	Area	Height	W	Ret	Ident	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
1	2,3,7,8-TCDD	1.24e5	1.25e5	0.77	0.77	NO	0.9881	25.74	25.72	NO	1.001	1.001	19.0	180	NO			
2	1,2,3,7,8-PeCDD	4.50e5	0.76e5	0.83	0.83	NO	0.9723	30.88	30.85	NO	1.001	1.001	47.2	84.5	NO			
3	1,2,3,4,7,8-HxCDD	4.18e5	7.89e5	1.24	1.22	NO	1.0708	34.08	34.80	NO	1.000	1.000	50.5	101	NO			
4	1,2,3,6,7,8-HxCDD	4.21e5	0.98e5	1.24	1.23	NO	0.9821	34.08	34.10	NO	1.000	1.001	47.8	95.5	NO			
5	1,2,3,7,8,9-HxCDD	3.95e5	0.72e5	1.24	1.25	NO	0.9182	34.41	34.38	NO	1.001	1.000	48.3	98.8	NO			
6																		
7	OCDD	0.11e5	1.26e5	0.89	0.88	NO	0.9748	40.51	40.82	NO	1.000	1.000	99.7	98.7	NO			
8	2,3,7,8-TCDF	1.40e5	1.78e5	0.77	0.71	NO	0.9828	24.85	24.84	NO	1.001	1.001	9.78	97.8	NO			
9	1,2,3,7,8-PeCDF	7.15e5	1.57e5	1.55	1.54	NO	0.9974	29.38	29.37	NO	1.001	1.001	50.2	100	NO			
10	2,3,4,7,8-PeCDF	7.08e5	1.48e5	1.59	1.54	NO	0.9518	30.38	30.35	NO	1.001	1.001	50.4	101	NO			
11	1,2,3,4,7,8-HxCDF	4.44e5	1.00e5	1.24	1.19	NO	0.9823	33.11	33.13	NO	1.000	1.001	51.3	103	NO			
12	1,2,3,6,7,8-HxCDF	5.02e5	1.15e5	1.24	1.18	NO	0.9414	33.25	33.25	NO	1.000	1.000	52.1	104	NO			
13	2,3,4,6,7,8-HxCDF	4.78e5	1.03e5	1.24	1.19	NO	0.9882	33.85	33.85	NO	1.001	1.000	51.2	102	NO			
14	1,2,3,7,8,9-HxCDF	3.80e5	0.76e5	1.24	1.19	NO	0.9578	34.72	34.73	NO	1.000	1.000	50.5	101	NO			
15	1,2,3,4,6,7,8-HpCDF	3.22e5	7.46e5	1.04	0.97	NO	0.9511	38.51	38.48	NO	1.001	1.000	51.2	102	NO			
16	1,2,3,4,7,8,9-HpCDF	2.84e5	5.34e5	1.04	0.95	NO	0.9799	38.49	38.51	NO	1.000	1.001	50.4	101	NO			
17	OCDF	5.05e5	1.44e5	0.89	0.87	NO	0.9885	41.18	41.10	NO	1.000	1.000	101	101	NO			



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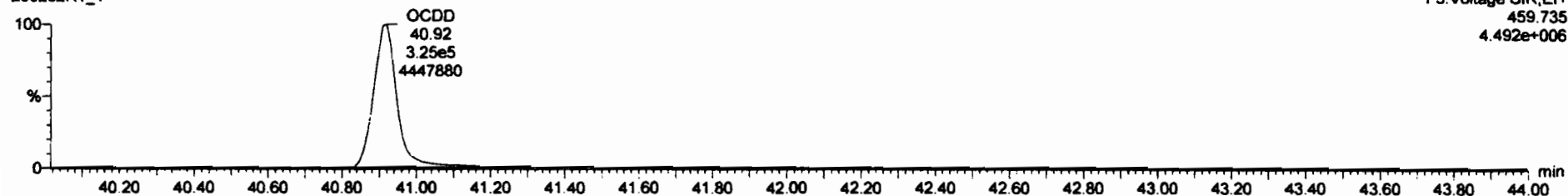
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OCDD

200202R1_1



200202R1_1

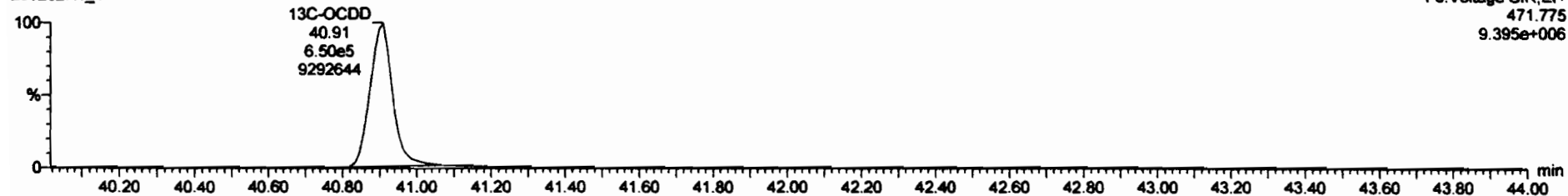


13C-OCDD

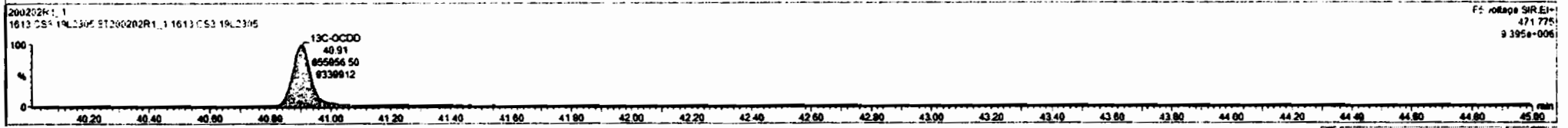
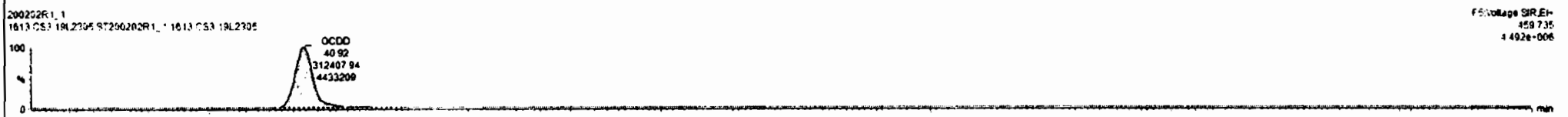
200202R1_1



200202R1_1



Peak	Retention Time	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
1	2,3,7,8-TCDD	1.24e5	1.25e5	0.77	0.77	NO	0.9081	25.74	25.72	NO	1.001	1.001	10.0	100	NO		
2	1,2,3,7,8-PeCDD	4.30e5	9.70e5	0.63	0.63	NO	0.9723	30.48	30.85	NO	1.001	1.001	47.2	94.5	NO		
3	1,2,3,4,7,8-HxCDD	4.18e5	7.88e5	1.23	1.22	NO	1.0708	34.00	34.00	NO	1.000	1.000	50.5	101	NO		
4	1,2,3,6,7,8-HxCDD	4.21e5	8.88e5	1.24	1.23	NO	0.9211	34.08	34.10	NO	1.000	1.001	47.8	95.5	NO		
5	1,2,3,7,8,9-HxCDD	3.96e5	8.72e5	1.24	1.25	NO	0.9182	34.41	34.36	NO	1.001	1.000	48.3	96.6	NO		
6	1,2,3,4,6,7,8-HpCDD	2.97e5	6.51e5	1.04	1.01	NO	0.9231	37.92	37.92	NO	1.000	1.000	49.5	99.1	NO		
8	2,3,7,8-TCDF	1.40e5	1.70e5	0.77	0.71	NO	0.9020	24.85	24.84	NO	1.001	1.001	9.78	97.8	NO		
9	1,2,3,7,8-PeCDF	7.15e5	1.57e6	1.55	1.54	NO	0.9874	29.38	29.37	NO	1.001	1.001	58.2	100	NO		
10	2,3,4,7,8-PeCDF	7.08e5	1.48e6	1.56	1.54	NO	0.9518	30.38	30.35	NO	1.001	1.001	50.4	101	NO		
11	1,2,3,4,7,8-HxCDF	4.44e5	1.80e6	1.24	1.19	NO	0.9823	33.11	33.13	NO	1.000	1.001	51.3	103	NO		
12	1,2,3,6,7,8-HxCDF	5.82e5	1.75e6	1.24	1.18	NO	0.8414	33.25	33.25	NO	1.000	1.000	52.1	104	NO		
13	2,3,4,6,7,8-HxCDF	4.78e5	1.83e6	1.24	1.19	NO	0.9882	33.85	33.85	NO	1.001	1.000	51.2	102	NO		
14	1,2,3,7,8,9-HxCDF	3.88e5	8.78e5	1.24	1.19	NO	0.9578	34.72	34.73	NO	1.000	1.000	50.5	101	NO		
15	1,2,3,4,6,7,8-HpCDF	3.22e5	7.40e5	1.04	0.97	NO	0.8511	38.51	38.48	NO	1.001	1.000	51.2	102	NO		
16	1,2,3,4,7,8,9-HpCDF	2.84e5	5.34e5	1.04	0.95	NO	0.9798	38.48	38.51	NO	1.000	1.001	50.4	101	NO		
17	OCDF	5.88e5	1.44e6	0.88	0.87	NO	0.9055	41.10	41.10	NO	1.000	1.000	101	101	NO		



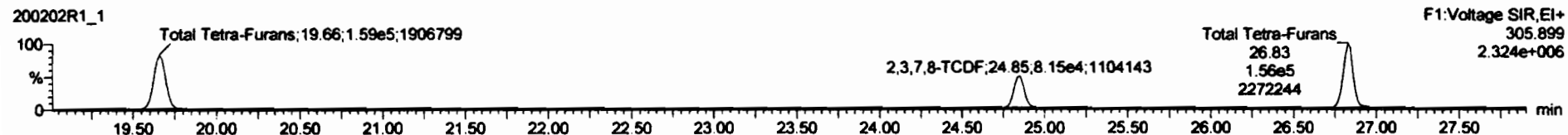
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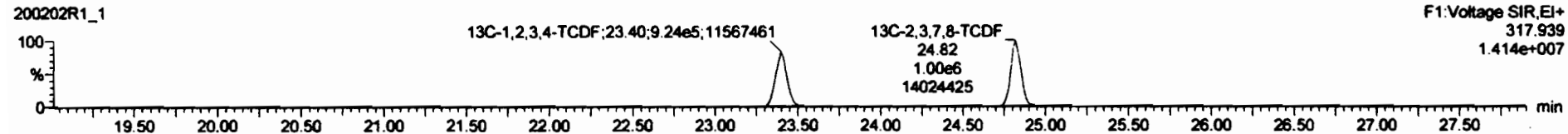
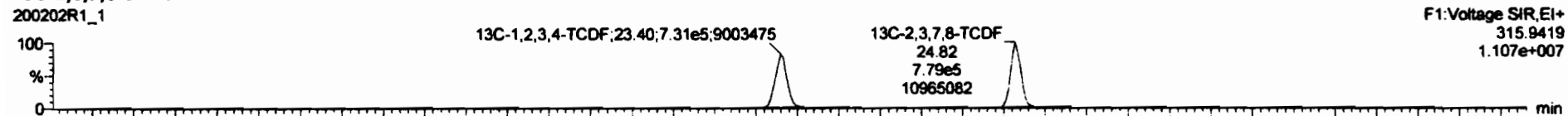
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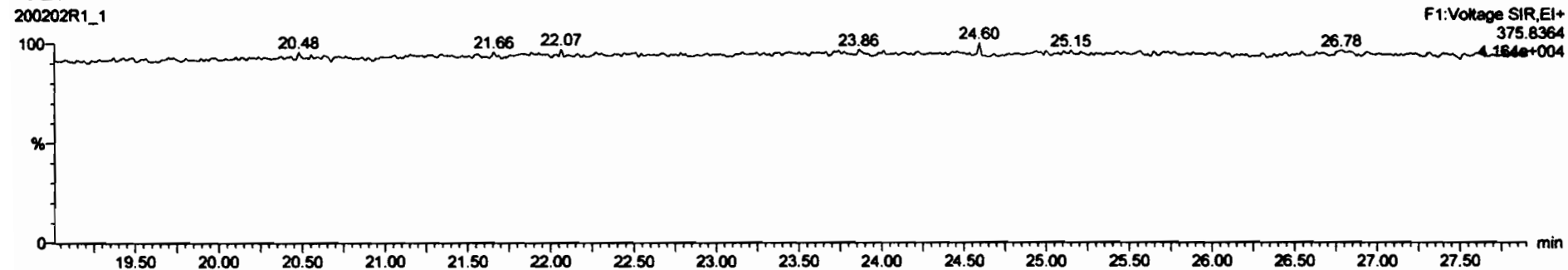
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

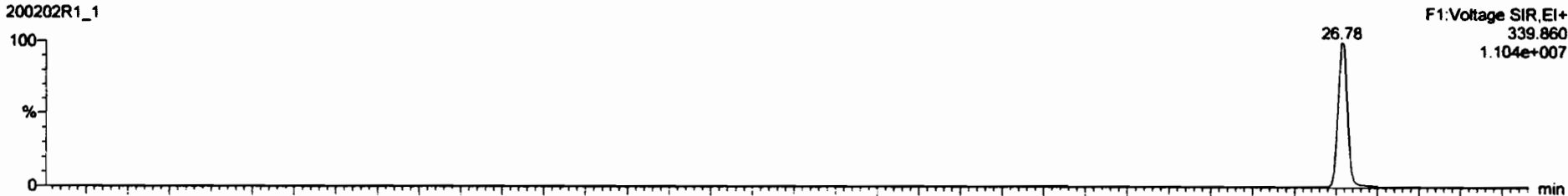
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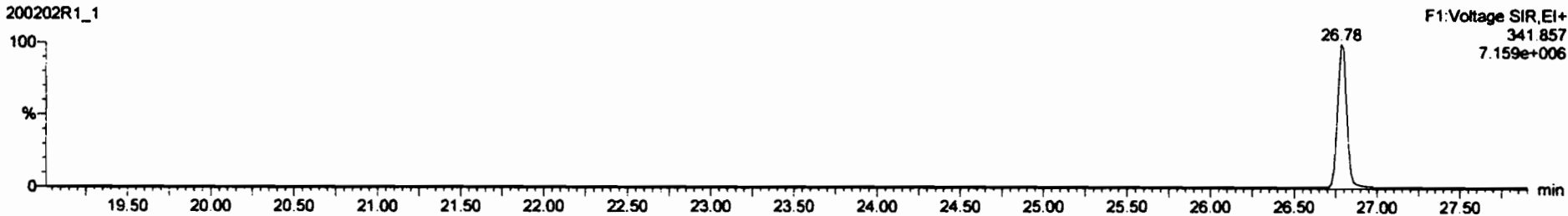
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1st Func. Penta-Furans

200202R1_1

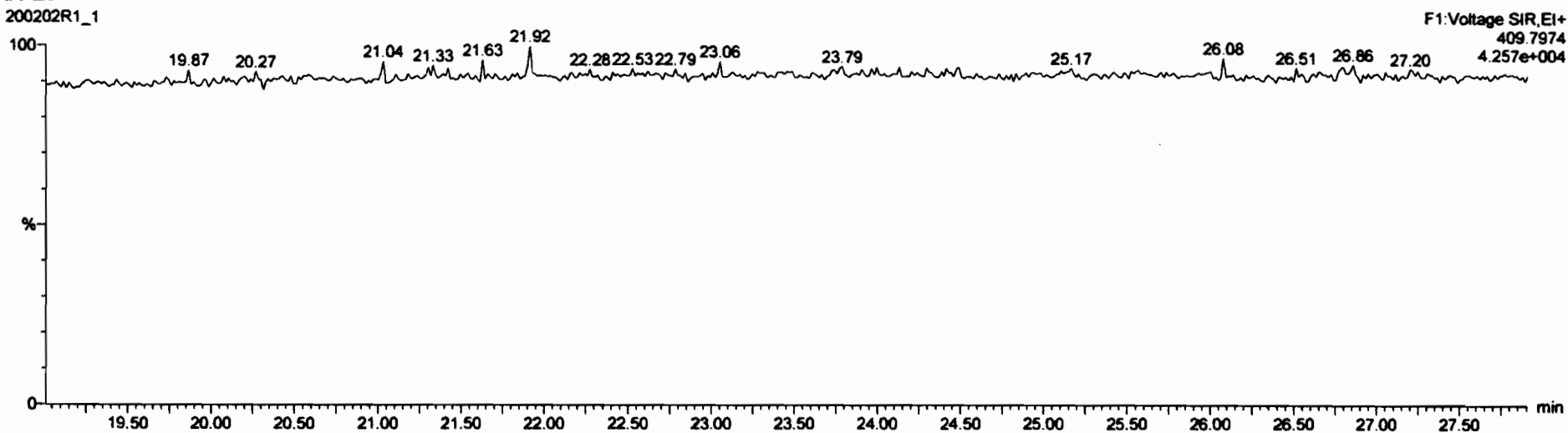


200202R1_1



DPE6

200202R1_1



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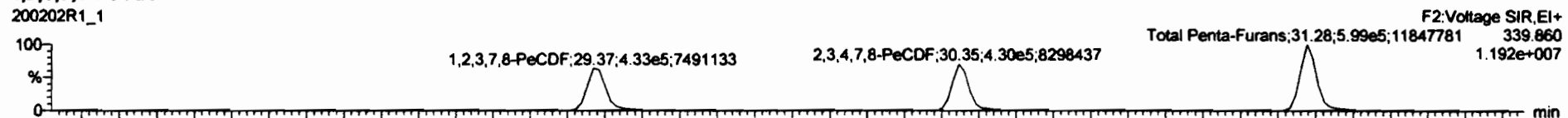
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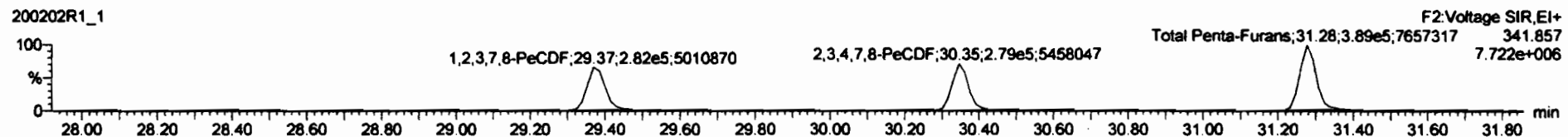
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1,2,3,7,8-PeCDF

200202R1_1

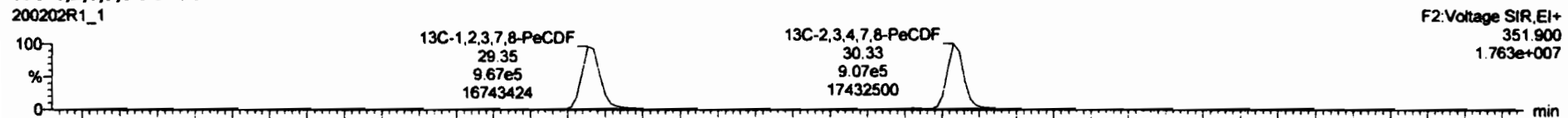


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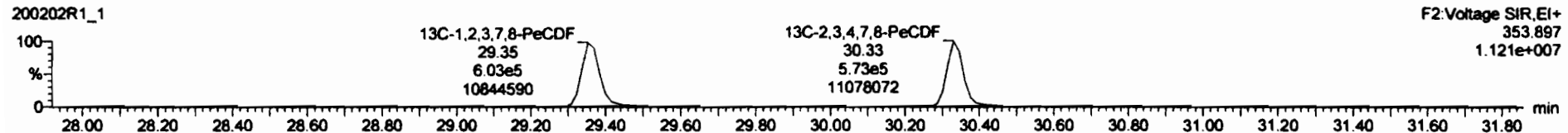


13C-1,2,3,7,8-PeCDF

200202R1_1

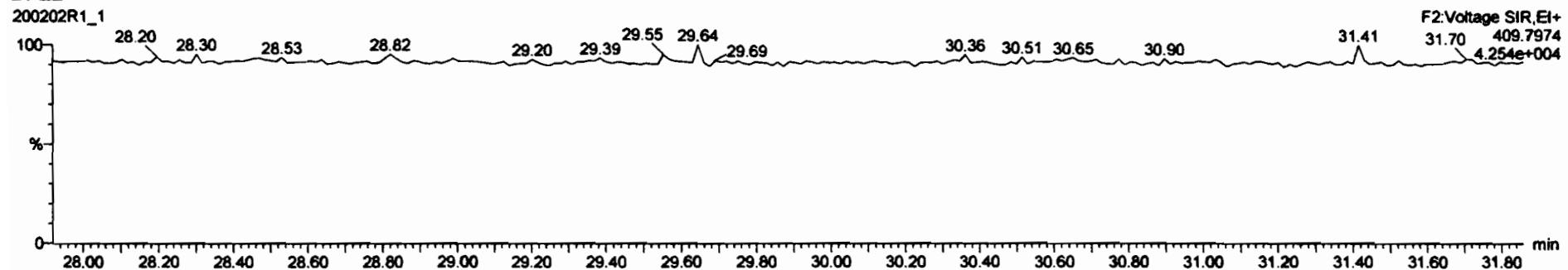


200202R1_1



DPE2

200202R1_1



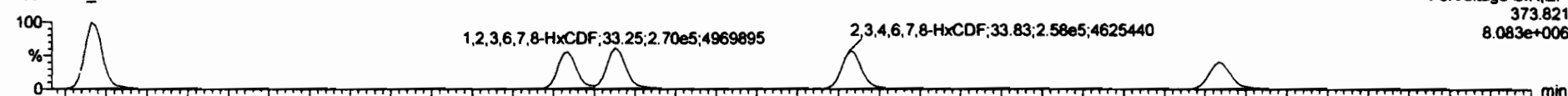
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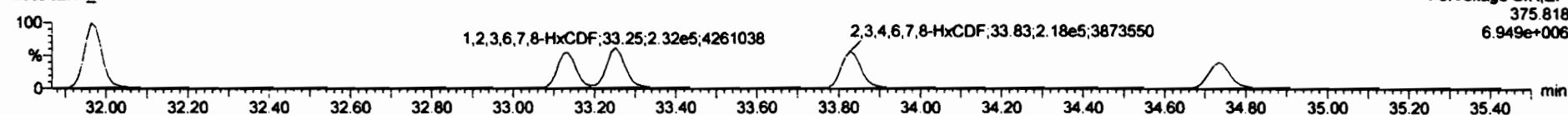
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1,2,3,4,7,8-HxCDF

200202R1_1

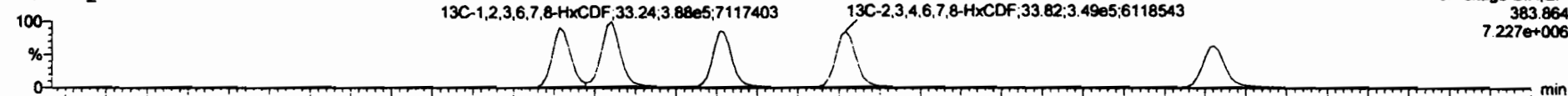


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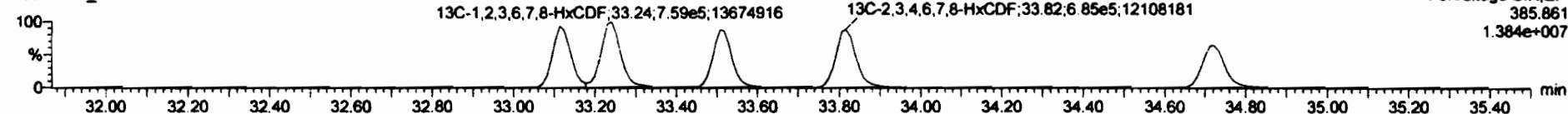


13C-1,2,3,4,7,8-HxCDF

200202R1_1

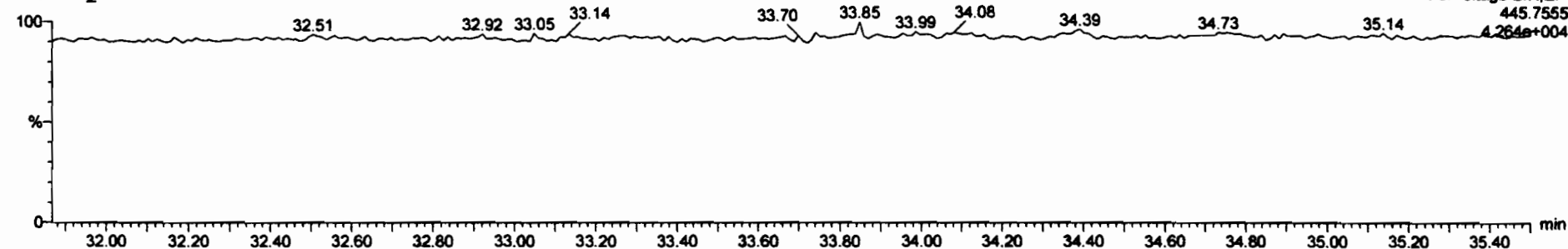


200202R1_1



DPE3

200202R1_1

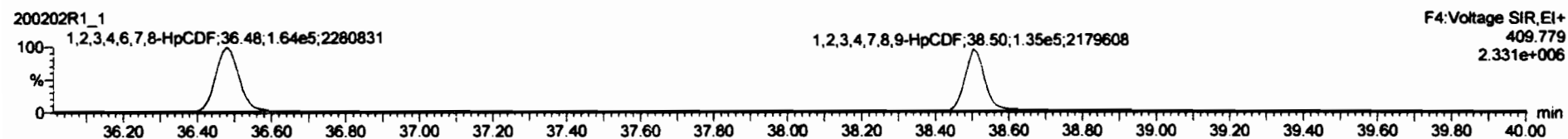
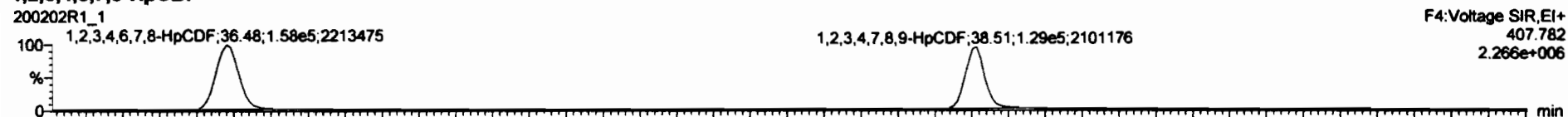


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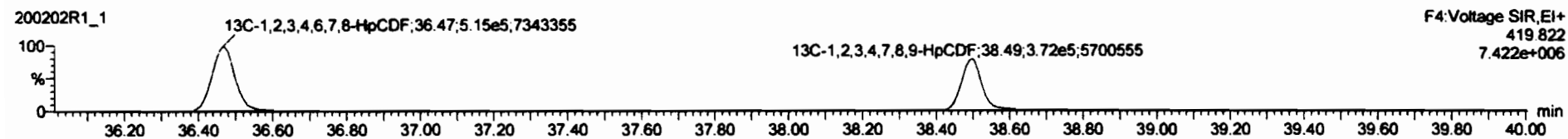
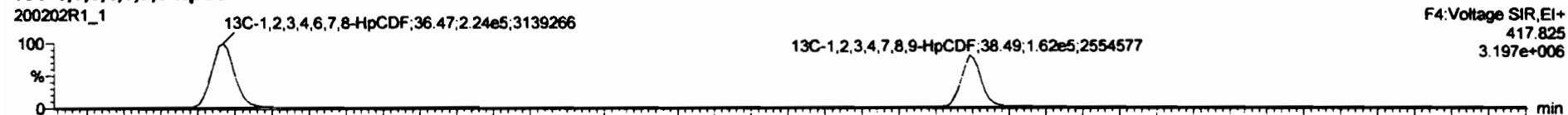
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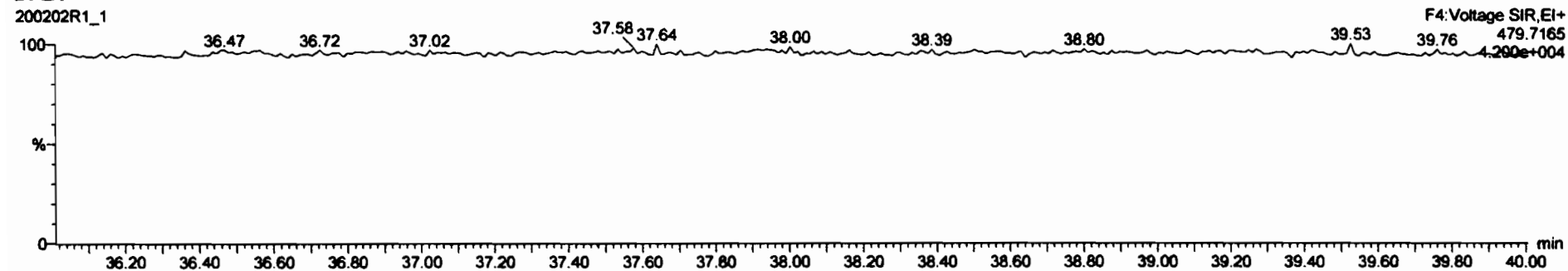
1,2,3,4,6,7,8-HpCDF



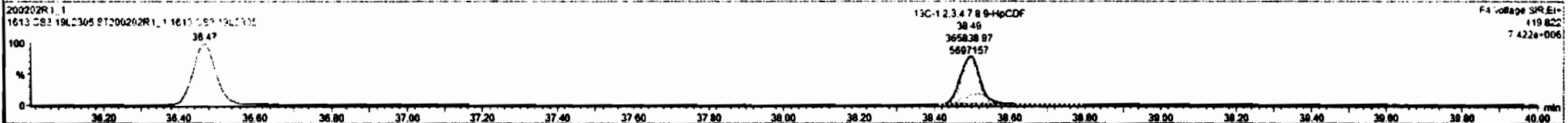
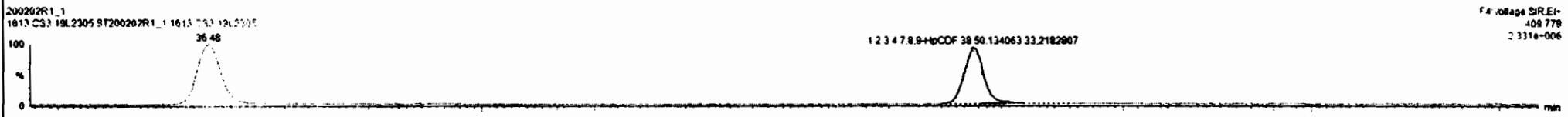
13C-1,2,3,4,6,7,8-HpCDF



DPE4



Peak	Retention Time	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	
1	2,3,7,8-TCDD	1.24e5	1.25e5	0.77	0.77	NO	0.0881	25.74	25.72	NO	1.001	1.001	10.0	100	NO							
2	1,2,3,7,8-PeCDD	4.50e5	9.78e5	0.83	0.83	NO	0.9723	30.88	30.85	NO	1.001	1.001	47.2	94.5	NO							
3	1,2,3,4,7,8-HxCDD	4.16e5	7.88e5	1.24	1.22	NO	1.0788	34.08	34.00	NO	1.000	1.000	56.5	101	NO							
4	1,2,3,6,7,8-HxCDD	4.21e5	9.58e5	1.24	1.23	NO	0.8291	34.98	34.10	NO	1.000	1.001	47.8	95.5	NO							
5	1,2,3,7,8,9-HxCDD	3.95e5	8.72e5	1.24	1.25	NO	0.9182	34.41	34.38	NO	1.001	1.000	49.3	98.6	NO							
6	1,2,3,4,6,7,8-HpCDD	2.97e5	6.51e5	1.04	1.01	NO	0.8231	37.82	37.82	NO	1.005	1.000	48.5	99.1	NO							
7	OCDD	5.00e5	1.23e6	0.89	0.89	NO	0.8748	40.91	40.82	NO	1.000	1.000	86.7	98.7	NO							
8	2,3,7,8-TCDF	1.40e5	1.78e5	0.77	0.71	NO	0.8020	24.85	24.84	NO	1.001	1.001	9.78	97.8	NO							
9	1,2,3,7,8-PeCDF	7.15e5	1.57e6	1.55	1.54	NO	0.9074	29.38	29.37	NO	1.001	1.001	56.2	100	NO							
10	2,3,4,7,8-PeCDF	7.08e5	1.48e6	1.55	1.54	NO	0.8516	30.38	30.35	NO	1.001	1.001	58.4	101	NO							
11	1,2,3,4,7,8-HxCDF	4.44e5	1.00e6	1.24	1.19	NO	0.8823	33.11	33.13	NO	1.000	1.001	51.3	103	NO							
12	1,2,3,6,7,8-HxCDF	5.02e5	1.15e6	1.24	1.18	NO	0.8414	33.25	33.25	NO	1.000	1.000	52.1	104	NO							
13	2,3,4,6,7,8-HxCDF	4.78e5	1.03e6	1.24	1.19	NO	0.8882	33.85	33.83	NO	1.001	1.000	51.2	102	NO							
14	1,2,3,7,8,9-HxCDF	3.80e5	8.78e5	1.24	1.19	NO	0.8578	34.72	34.73	NO	1.000	1.000	50.5	101	NO							
15	1,2,3,4,6,7,8-HpCDF	3.22e5	7.40e5	1.04	0.97	NO	0.8511	38.51	38.48	NO	1.001	1.000	51.2	102	NO							
17	OCDF	5.88e5	1.44e6	0.89	0.87	NO	0.8065	41.16	41.10	NO	1.000	1.000	101	101	NO							



Dataset: Untitled

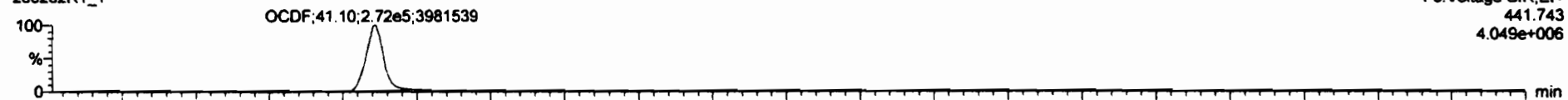
Last Altered: Monday, February 03, 2020 10:46:43 Pacific Standard Time

Printed: Monday, February 03, 2020 10:46:53 Pacific Standard Time

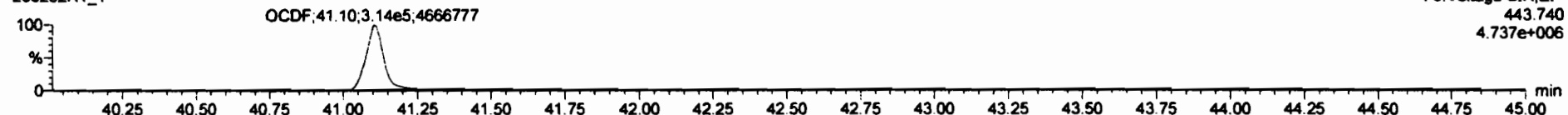
Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

OCDF

200202R1_1

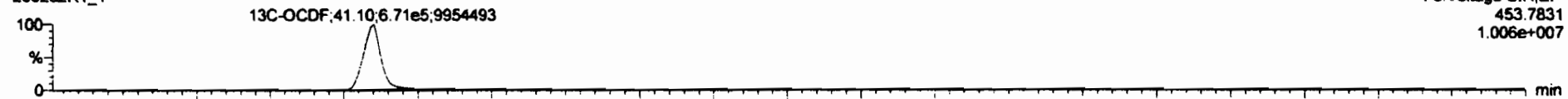


200202R1_1

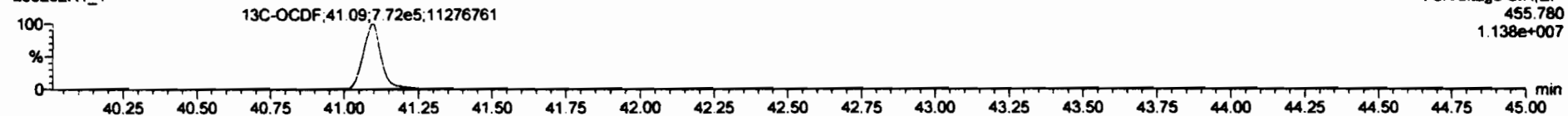


13C-OCDF

200202R1_1

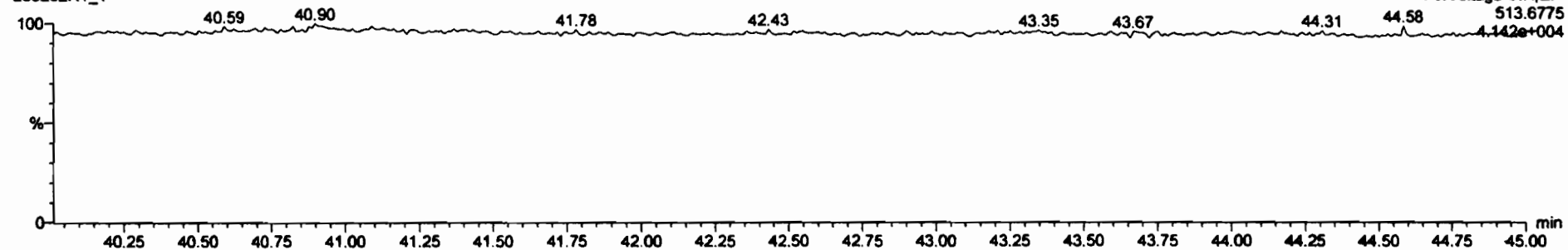


200202R1_1



DPE5

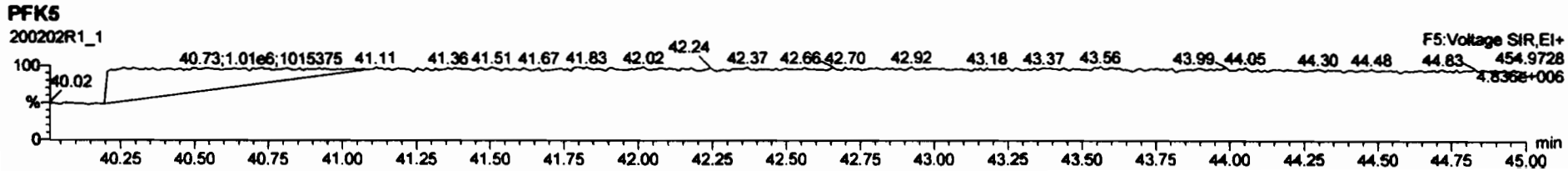
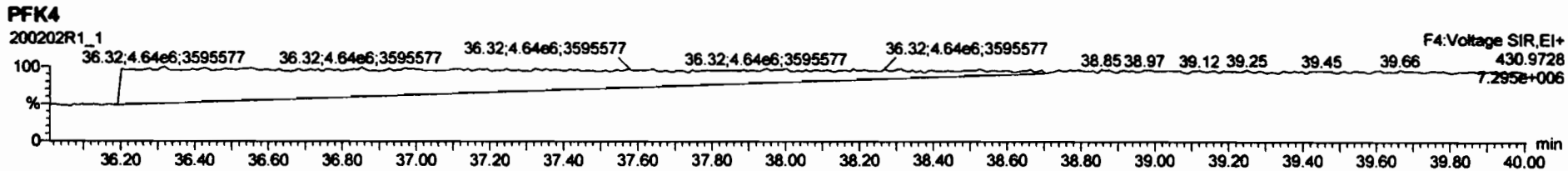
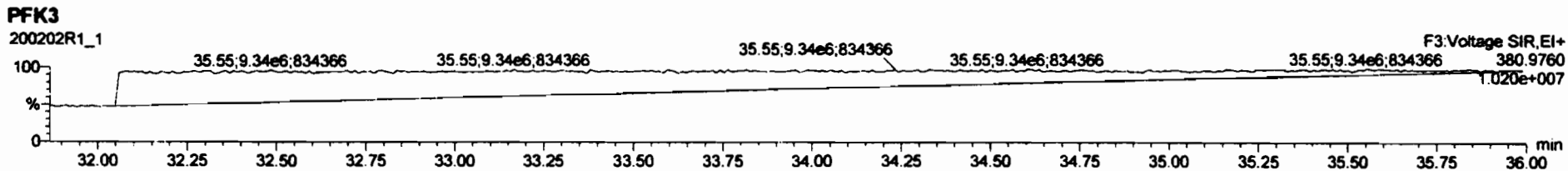
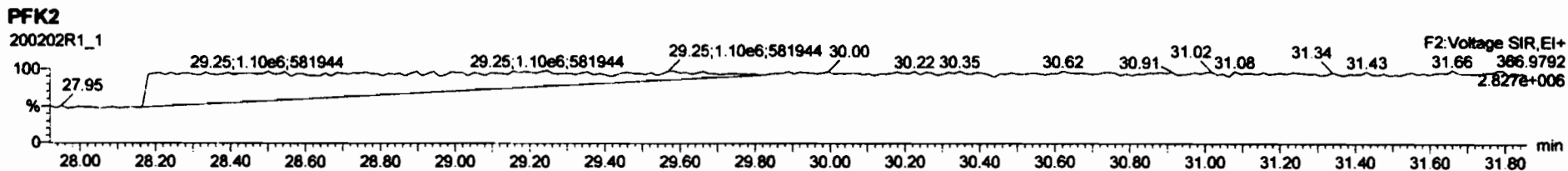
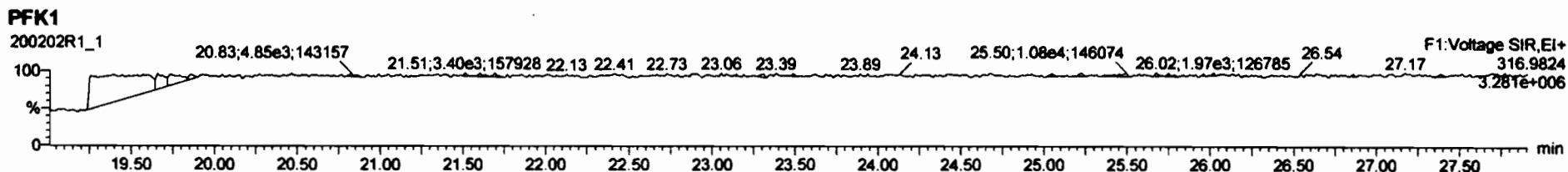
200202R1_1



Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:46:43 Pacific Standard Time
Printed: Monday, February 03, 2020 10:46:53 Pacific Standard Time

Name: 200202R1_1, Date: 02-Feb-2020, Time: 10:22:59, ID: ST200202R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

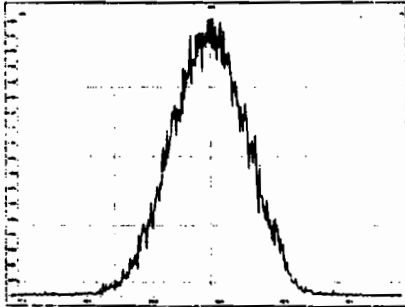


Resolution Check Report

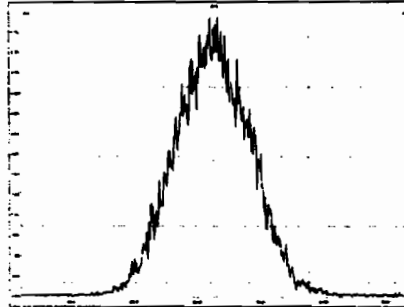
MassLynx 4.1 SCN815

Printed: Sunday, February 02, 2020 22:17:46 Pacific Standard Time

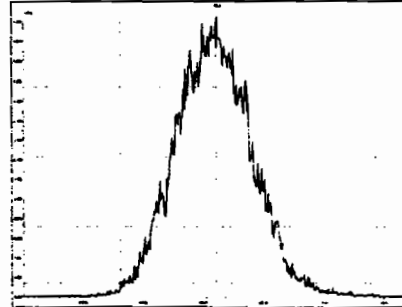
M 292.9824 R 11194



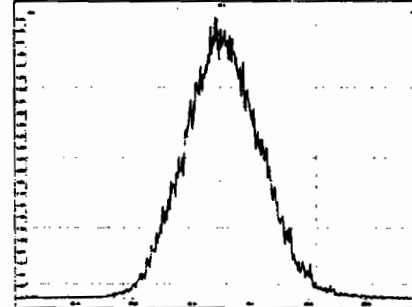
M 304.9824 R 11236



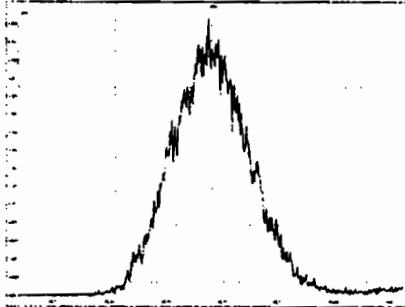
M 318.9792 R 10927



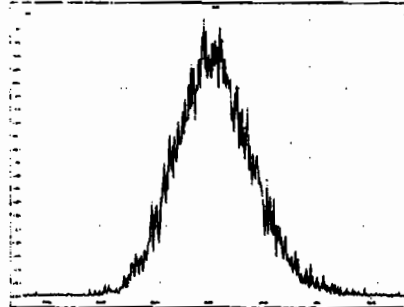
M 330.9792 R 10731



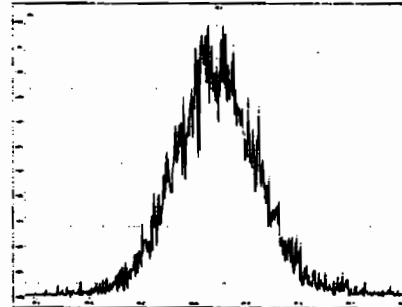
M 342.9792 R 10578



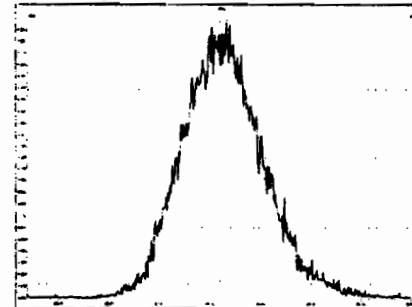
M 354.9792 R 10825



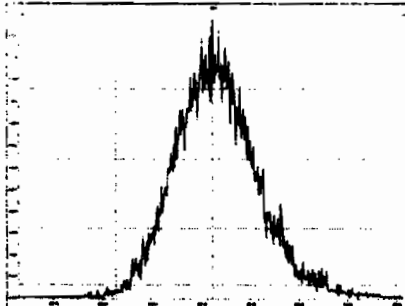
M 366.9792 R 10377



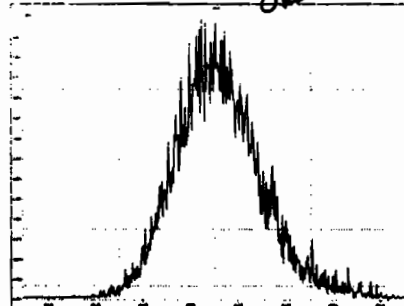
M 380.9760 R 10144



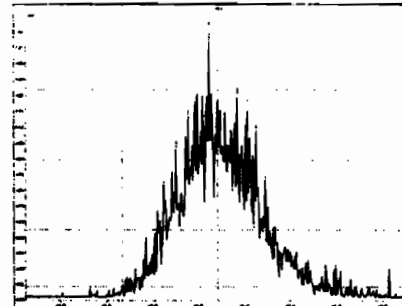
M 392.9760 R 10287



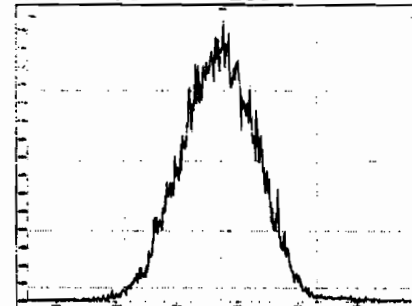
M 404.9760 R 9925 *ok*



M 416.9760 R 10321



M 318.9792 R 11266

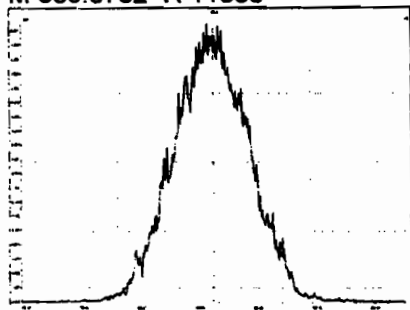


Resolution Check Report

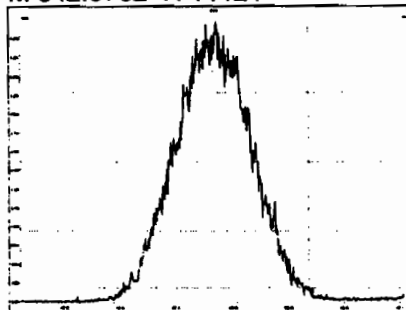
MassLynx 4.1 SCN815

Printed: Sunday, February 02, 2020 22:17:46 Pacific Standard Time

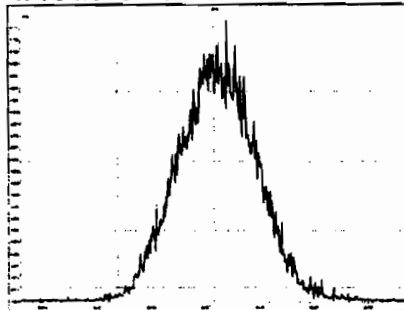
M 330.9792 R 11365



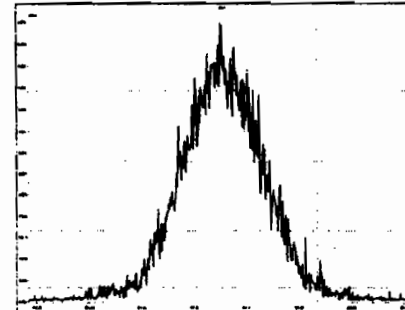
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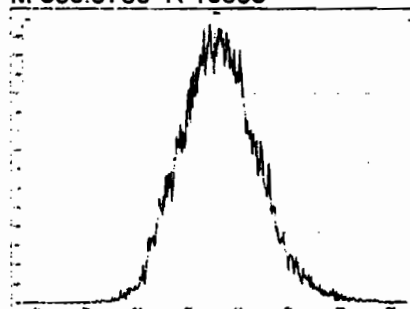
M 354.9792 R 10731



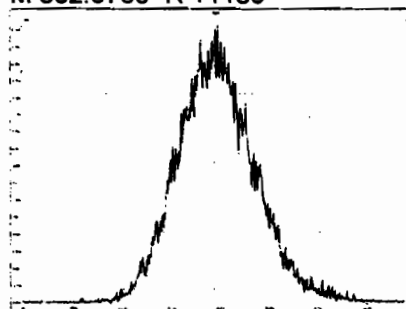
M 366.9792 R 10978



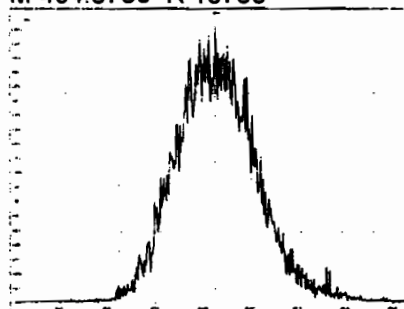
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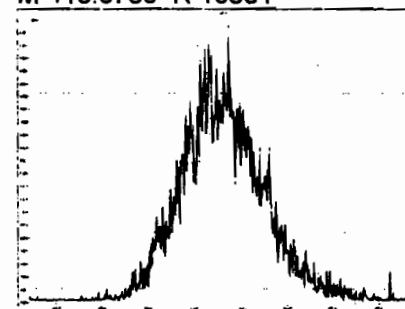
M 392.9760 R 11135



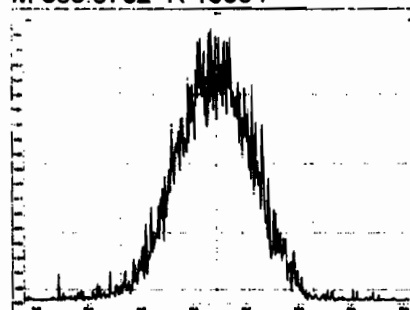
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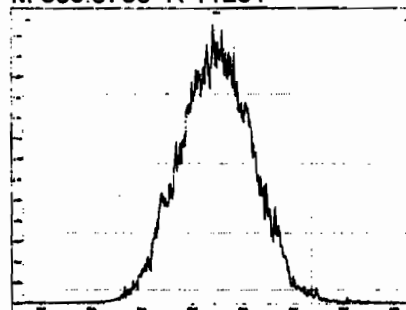
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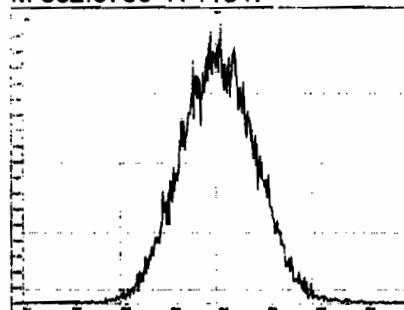
M 366.9792 R 10904



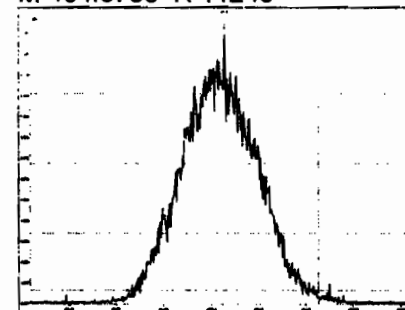
M 380.9760 R 11261



M 392.9760 R 11547

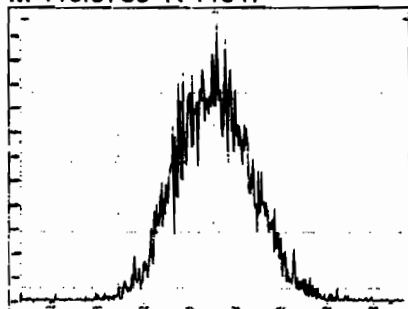


M 404.9760 R 11240

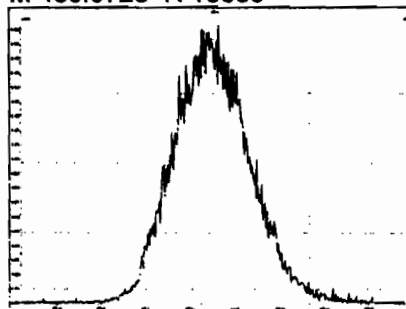


Printed: Sunday, February 02, 2020 22:17:46 Pacific Standard Time

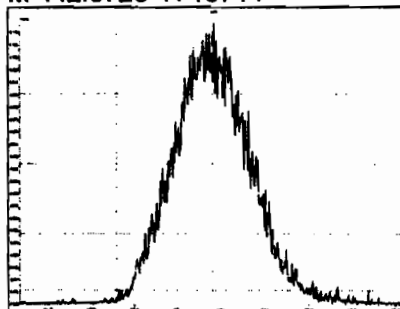
M 416.9760 R 11647



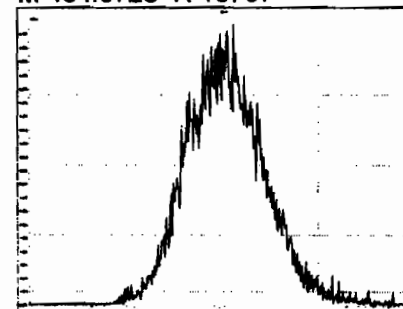
M 430.9728 R 10869



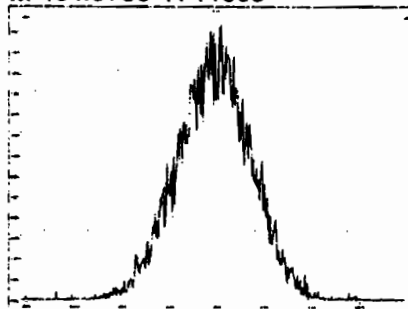
M 442.9728 R 10714



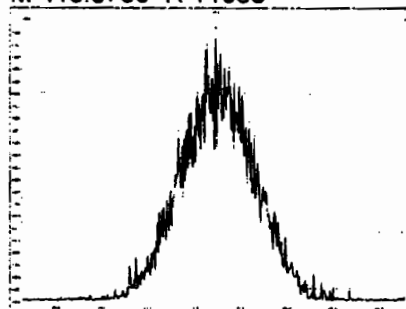
M 454.9728 R 10707



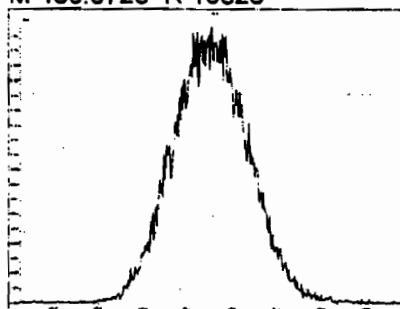
M 404.9760 R 11603



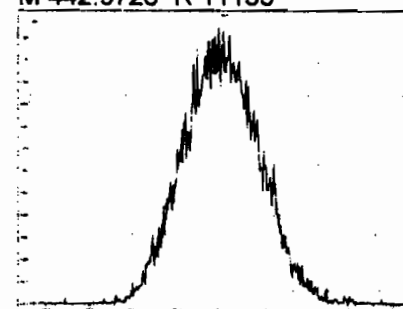
M 416.9760 R 11063



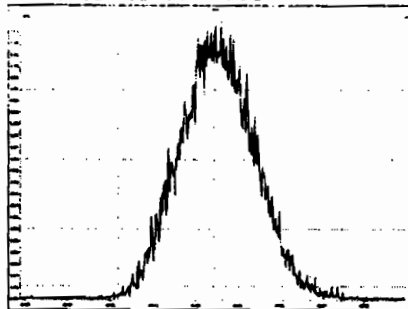
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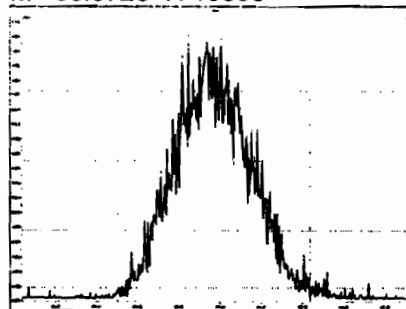
M 442.9728 R 11155



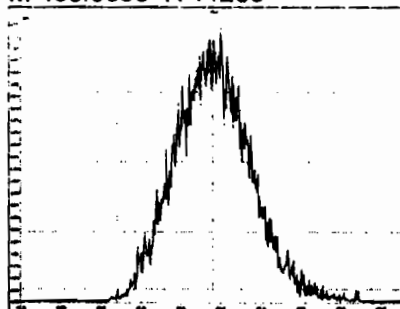
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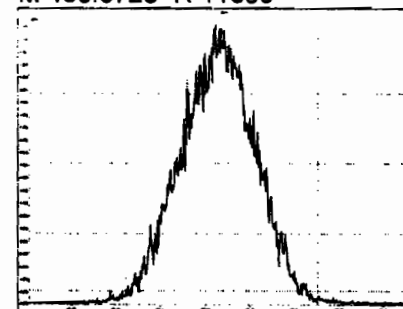
M 466.9728 R 10803



M 480.9696 R 11286

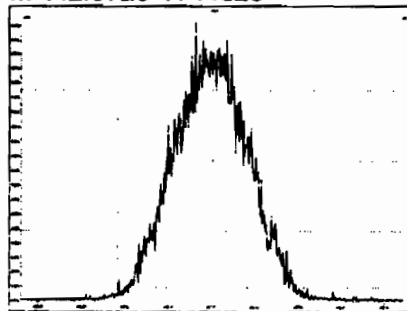


M 430.9728 R 11600

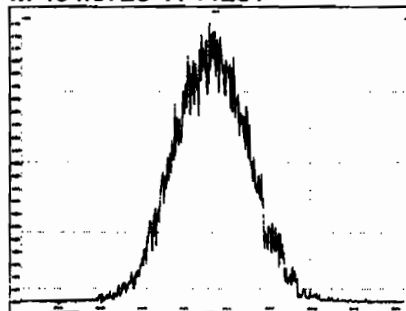


Printed: Sunday, February 02, 2020 22:17:46 Pacific Standard Time

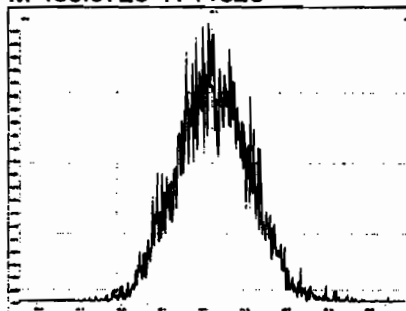
M 442.9728 R 11628



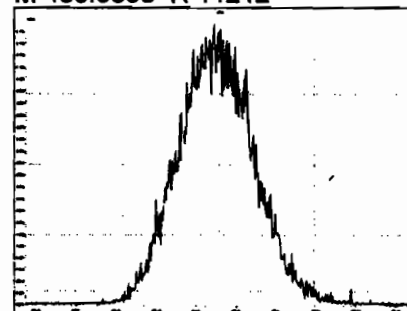
M 454.9728 R 11261



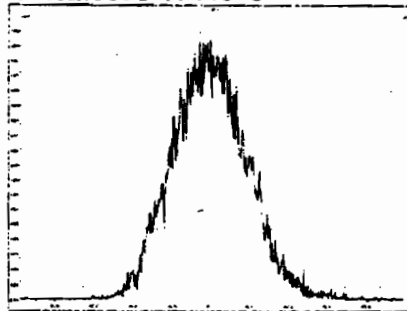
M 466.9728 R 11820



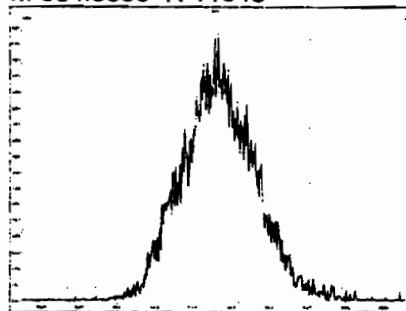
M 480.9696 R 11212



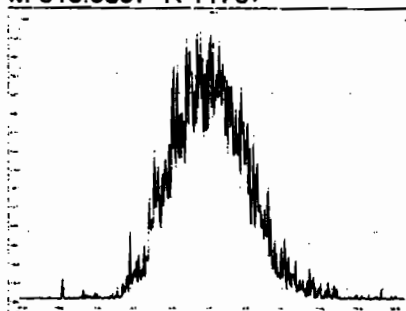
M 492.9696 R 11968



M 504.9696 R 11548



M 516.9697 R 11757



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST20020222-1

Reviewed By: P.T. 02/04/2020
Initials & Date

End Calibration ID: NA

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

Mass resolution \geq

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

Intergrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

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

<u>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:

Ⓐ BEG. RES CHECK HAD ONE MASS BELOW 10K

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-2.qld

Last Altered: Monday, February 03, 2020 11:02:50 Pacific Standard Time
Printed: Monday, February 03, 2020 11:03:05 Pacific Standard Time

GRB 02/03/2020

OT 02/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	nty	RRF	Pred.RT	RT	RT Flag	Pred.RRF	RRF	Conc.	%Rec	SFO out
1	1 2,3,7,8-TCDD	1.32e5	1.36e6	0.80	NO	0.988	25.71	25.69	NO	1.001	1.001	9.8840	98.8	NO
2	2 1,2,3,7,8-PeCDD	4.98e5	1.08e6	0.63	NO	0.972	30.64	30.64	NO	1.001	1.000	47.291	94.6	NO
3	3 1,2,3,4,7,8-HxCDD	4.84e5	8.99e5	1.23	NO	1.07	33.99	33.99	NO	1.000	1.000	50.303	101	NO
4	4 1,2,3,6,7,8-HxCDD	4.78e5	1.07e6	1.22	NO	0.921	34.07	34.09	NO	1.000	1.001	48.291	96.6	NO
5	5 1,2,3,7,8,9-HxCDD	4.64e5	1.02e6	1.22	NO	0.918	34.39	34.37	NO	1.001	1.000	49.500	99.0	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.76e5	8.41e5	1.03	NO	0.923	37.91	37.91	NO	1.000	1.000	48.425	96.8	NO
7	7 OCDD	7.60e5	1.62e6	0.88	NO	0.975	40.90	40.91	NO	1.000	1.000	96.383	96.4	NO
8	8 2,3,7,8-TCDF	1.54e5	1.92e6	0.74	NO	0.802	24.82	24.82	NO	1.001	1.001	10.002	100	NO
9	9 1,2,3,7,8-PeCDF	7.60e5	1.66e6	1.52	NO	0.907	29.36	29.35	NO	1.001	1.001	50.335	101	NO
10	10 2,3,4,7,8-PeCDF	7.70e5	1.62e6	1.54	NO	0.952	30.35	30.33	NO	1.001	1.000	49.866	99.7	NO
11	11 1,2,3,4,7,8-HxCDF	5.11e5	1.17e6	1.18	NO	0.862	33.11	33.13	NO	1.000	1.000	50.853	102	NO
12	12 1,2,3,6,7,8-HxCDF	5.46e5	1.25e6	1.18	NO	0.841	33.24	33.24	NO	1.000	1.000	51.737	103	NO
13	13 2,3,4,6,7,8-HxCDF	5.32e5	1.16e6	1.17	NO	0.898	33.84	33.82	NO	1.001	1.000	51.139	102	NO
14	14 1,2,3,7,8,9-HxCDF	4.40e5	1.01e6	1.19	NO	0.858	34.71	34.72	NO	1.000	1.000	50.675	101	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.83e5	8.89e5	0.99	NO	0.851	36.49	36.48	NO	1.001	1.001	50.637	101	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.27e5	6.47e5	0.99	NO	0.980	38.49	38.50	NO	1.000	1.000	51.641	103	NO
17	17 OCDF	7.32e5	1.83e6	0.86	NO	0.806	41.09	41.10	NO	1.000	1.000	99.333	99.3	NO
18	18 13C-2,3,7,8-TCDD	1.36e6	1.14e6	0.78	NO	1.20	25.68	25.67	NO	1.026	1.026	99.137	99.1	NO
19	19 13C-1,2,3,7,8-PeCDD	1.08e6	1.14e6	0.65	NO	0.967	30.41	30.62	NO	1.215	1.223	98.148	98.1	NO
20	20 13C-1,2,3,4,7,8-HxCDD	8.99e5	1.09e6	1.27	NO	0.874	33.98	33.98	NO	1.014	1.014	94.278	94.3	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.07e6	1.09e6	1.27	NO	1.05	34.08	34.07	NO	1.017	1.017	94.128	94.1	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.02e6	1.09e6	1.25	NO	0.974	34.38	34.36	NO	1.026	1.025	96.039	96.0	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.41e5	1.09e6	1.05	NO	0.747	37.93	37.90	NO	1.132	1.131	103.19	103	NO
24	24 13C-OCDD	1.62e6	1.09e6	0.89	NO	0.707	40.81	40.90	NO	1.218	1.221	209.92	105	NO
25	25 13C-2,3,7,8-TCDF	1.92e6	1.80e6	0.77	NO	1.07	24.86	24.79	NO	0.993	0.990	100.44	100	NO
26	26 13C-1,2,3,7,8-PeCDF	1.66e6	1.80e6	1.57	NO	1.00	29.19	29.34	NO	1.166	1.172	92.466	92.5	NO
27	27 13C-2,3,4,7,8-PeCDF	1.62e6	1.80e6	1.58	NO	0.962	30.14	36.32	NO	1.204	1.211	94.031	94.0	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.17e6	1.09e6	0.50	NO	1.05	33.11	33.11	NO	0.988	0.988	101.84	102	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.25e6	1.09e6	0.51	NO	1.19	33.21	33.23	NO	0.991	0.992	96.652	96.7	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.16e6	1.09e6	0.51	NO	1.07	33.81	33.81	NO	1.009	1.009	99.510	99.5	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.01e6	1.09e6	0.51	NO	0.922	34.71	34.71	NO	1.036	1.036	100.59	101	NO

Dataset: U:\VG12.PRO\Results\200202R2\200202R2-2.qld

Last Altered: Monday, February 03, 2020 11:02:50 Pacific Standard Time

Printed: Monday, February 03, 2020 11:03:05 Pacific Standard Time

Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	CF	Pred RT	RT	RT Flag	Pred FRT	FRT	Conc.	%Rec	STD out
32	13C-1,2,3,4,6,7,8-HpCDF	8.89e5	1.09e6	0.44	NO	0.767	36.46	36.46	NO	1.088	1.088	106.29	106	NO
33	13C-1,2,3,4,7,8,9-HpCDF	6.47e5	1.09e6	0.43	NO	0.552	38.47	38.49	NO	1.148	1.149	107.34	107	NO
34	13C-OCDF	1.83e6	1.09e6	0.88	NO	0.789	41.05	41.09	NO	1.225	1.226	212.60	106	NO
35	37Cl-2,3,7,8-TCDD	1.38e5	1.14e6			1.18	25.71	25.69	NO	1.027	1.026	10.310	103	NO
36	13C-1,2,3,4-TCDD	1.14e6	1.14e6	0.80	NO	1.00	25.08	25.03	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	1.80e6	1.80e6	0.79	NO	1.00	23.42	23.37	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	1.09e6	1.09e6	0.51	NO	1.00	33.52	33.51	NO	1.000	1.000	100.00	100	YES ^{OK}
39	Total Tetra-Dioxins		1.36e6			0.988	24.62		NO	0.000		85.288		NO
40	Total Penta-Dioxins		1.08e6			0.972	29.96		NO	0.000		207.96		NO
41	Total Hexa-Dioxins		0.00e0			0.921	33.63		NO	0.000		244.66		NO
42	Total Hepta-Dioxins		8.41e5			0.923	37.64		NO	0.000		128.97		NO
43	Total Tetra-Furans		1.92e6			0.802	23.61		NO	0.000		46.365		NO
44	1st Func. Penta-Furans		0.00e0			0.907	27.09		NO	0.000				NO
45	Total Penta-Furans		0.00e0			0.907	29.27		NO	0.000		174.20		NO
46	Total Hexa-Furans		0.00e0			0.898	33.56		NO	0.000		284.14		NO
47	Total Hepta-Furans		0.00e0			0.851	37.83		NO	0.000		102.28		NO

Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:47:25 Pacific Standard Time
Printed: Monday, February 03, 2020 10:47:37 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RET
1	1,3,6,8-TCDD (First)	21.72
2	1,2,8,9-TCDD (Last)	26.65
3	1,2,4,7,9-PeCDD (First)	28.42
4	1,2,3,8,9-PeCDD (Last)	31.02
5	1,2,4,6,7,9-HxCDD (First)	32.51
6	1,2,3,7,8,9-HxCDD (Last)	34.37
7	1,2,3,4,6,7,9-HpCDD (First)	36.86
8	1,2,3,4,6,7,8-HpCDD (Last)	37.91
9	1,3,6,8-TCDF (First)	19.63
10	1,2,8,9-TCDF (Last)	26.80
11	1,3,4,6,8-PeCDF (First)	26.77
12	1,2,3,8,9-PeCDF (Last)	31.26
13	1,2,3,4,6,8-HxCDF (First)	31.95
14	1,2,3,7,8,9-HxCDF (Last)	34.72
15	1,2,3,4,6,7,8-HpCDF (First)	36.48
16	1,2,3,4,7,8,9-HpCDF (Last)	38.50

Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:51:13 Pacific Standard Time

Printed: Monday, February 03, 2020 10:51:19 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

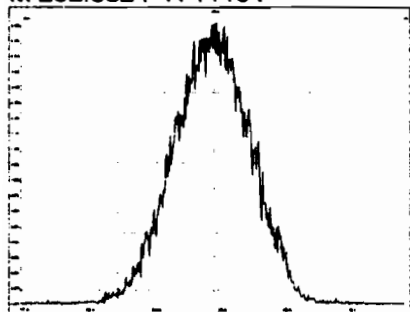
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

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

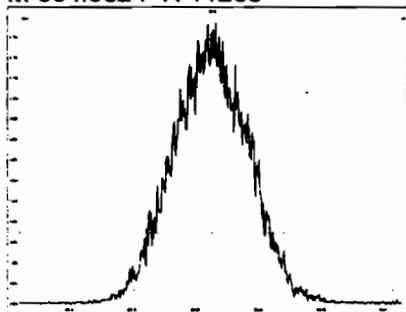
	Name	ID	Acq.Date	Acq.Time
1	200202R2_1	SOLVENT BLANK	02-Feb-20	22:17:48
2	200202R2_2	ST200202R2_1 1613 CS3 19L2305	02-Feb-20	23:04:08
3	200202R2_3	SOLVENT BLANK	02-Feb-20	23:51:05
4	200202R2_4	1903654-10 PDI-076SC-B-02-05-191013 17.48	03-Feb-20	00:38:03
5	200202R2_5	1903654-11 PDI-076SC-B-05-07-191013 16.56	03-Feb-20	01:25:04
6	200202R2_6	1903827-01 PDI-057SC-B-00-02-191023 19.01	03-Feb-20	02:12:02
7	200202R2_7	1903827-02 PDI-057SC-B-02-04-191023 18.69	03-Feb-20	02:59:07
8	200202R2_8	1903827-03 PDI-057SC-B-04-06-191023 17.03	03-Feb-20	03:46:08
9	200202R2_9	1903827-04 PDI-057SC-B-06-08-191023 17.29	03-Feb-20	04:33:07
10	200202R2_10	1903827-05 PDI-062SC-B-00-02-191023 17.51	03-Feb-20	05:20:13
11	200202R2_11	1903827-06 PDI-062SC-B-02-04-191023 17.49	03-Feb-20	06:07:13
12	200202R2_12	1903827-07 PDI-062SC-B-04-06-191023 16.2	03-Feb-20	06:54:13
13	200202R2_13	1903827-08 PDI-062SC-B-06-08-191023 14.01	03-Feb-20	07:41:13
14	200202R2_14	SOLVENT BLANK	03-Feb-20	08:37:05

Printed: Sunday, February 02, 2020 22:17:46 Pacific Standard Time

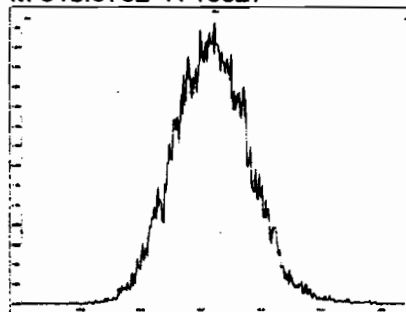
M 292.9824 R 11194



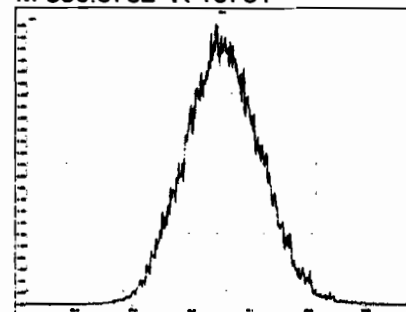
M 304.9824 R 11236



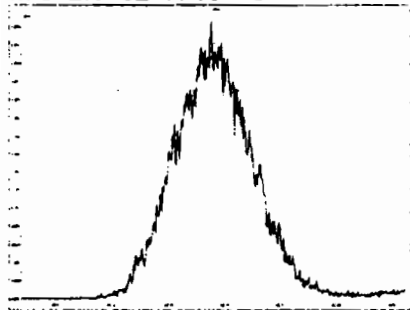
M 318.9792 R 10927



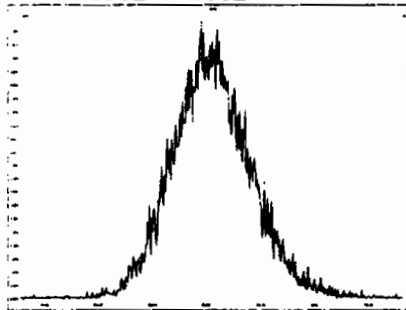
M 330.9792 R 10731



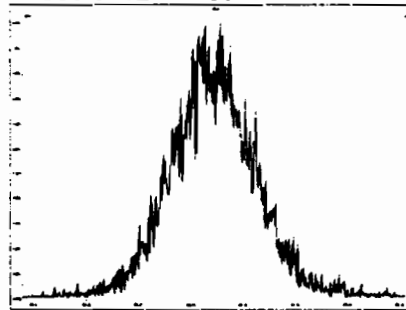
M 342.9792 R 10578



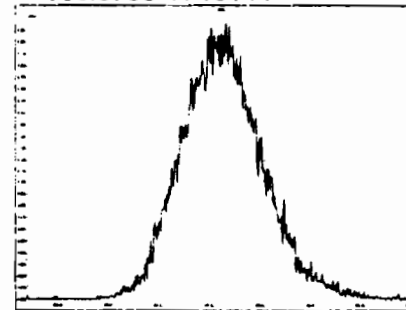
M 354.9792 R 10825



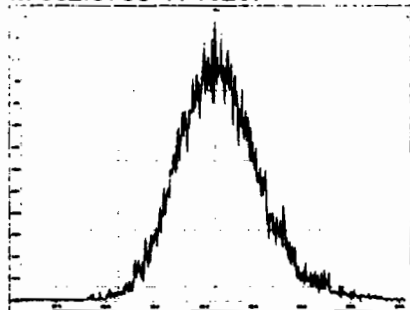
M 366.9792 R 10377



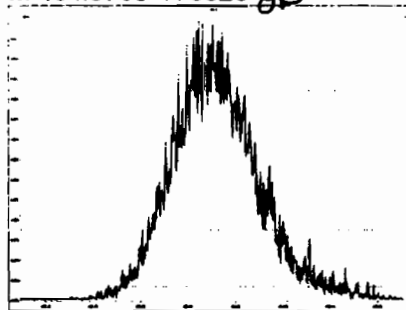
M 380.9760 R 10144



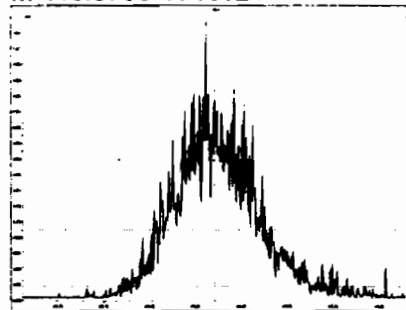
M 392.9760 R 10287



M 404.9760 R 9925 *ok*



M 416.9760 R 10321

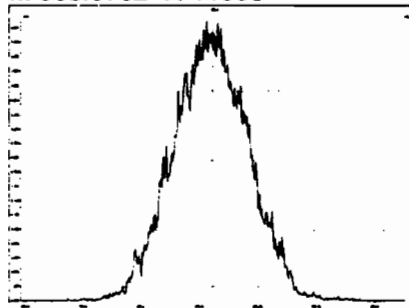


M 318.9792 R 11266

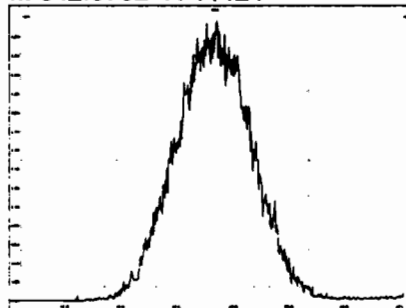


Printed: Sunday, February 02, 2020 22:17:46 Pacific Standard Time

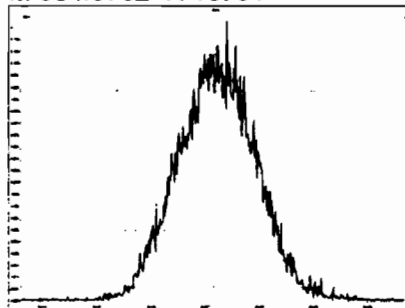
M 330.9792 R 11365



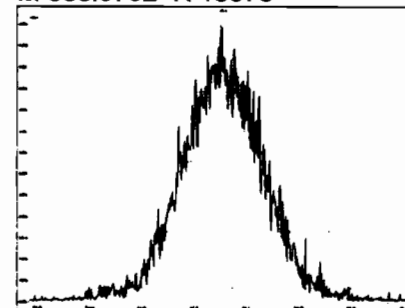
M 342.9792 R 11121



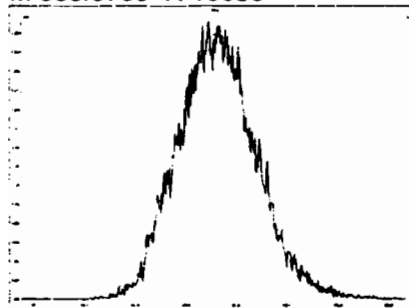
M 354.9792 R 10731



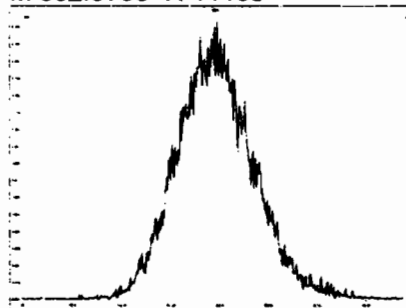
M 366.9792 R 10978



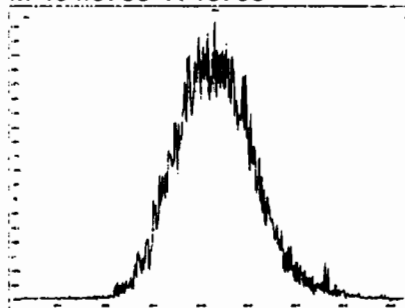
M 380.9760 R 10653



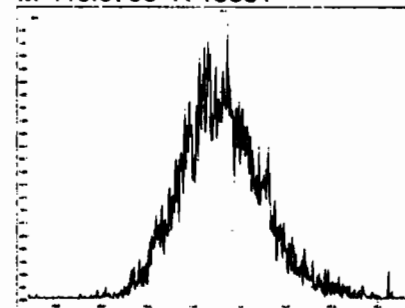
M 392.9760 R 11135



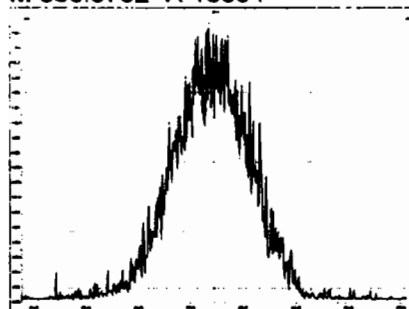
M 404.9760 R 10798



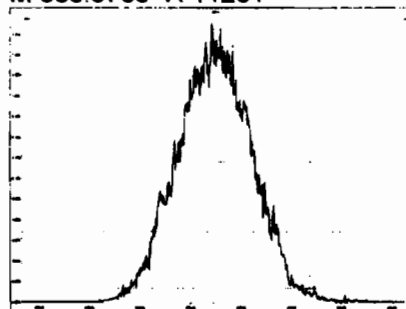
M 416.9760 R 10351



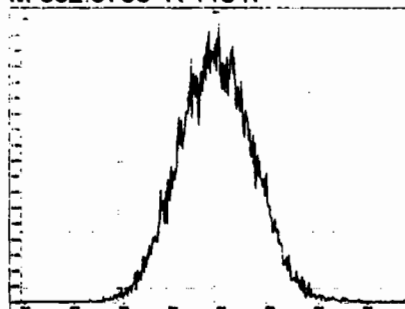
M 366.9792 R 10904



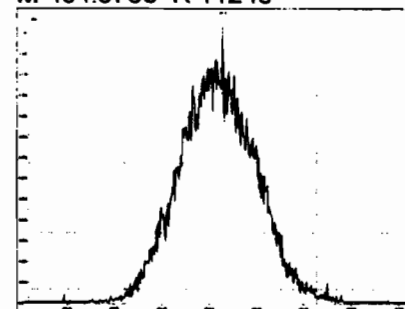
M 380.9760 R 11261



M 392.9760 R 11547

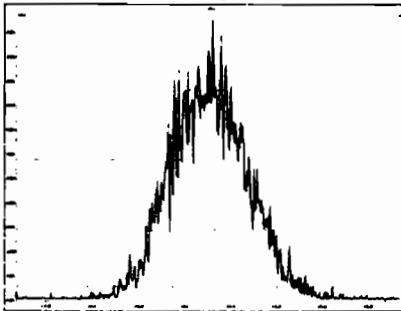


M 404.9760 R 11240

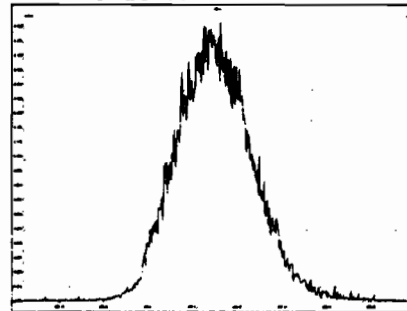


Printed: Sunday, February 02, 2020 22:17:46 Pacific Standard Time

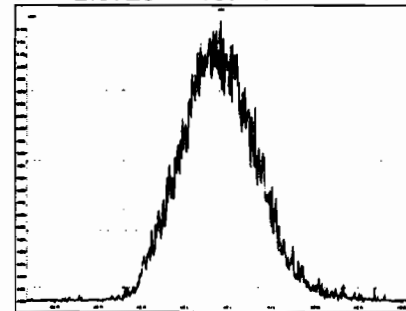
M 416.9760 R 11647



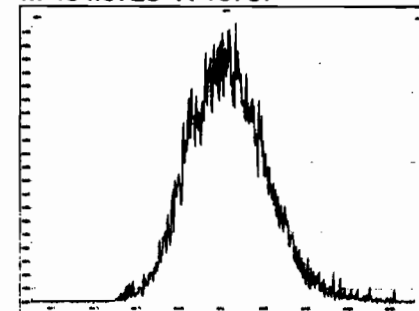
M 430.9728 R 10869



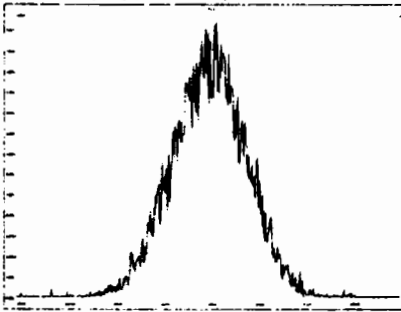
M 442.9728 R 10714



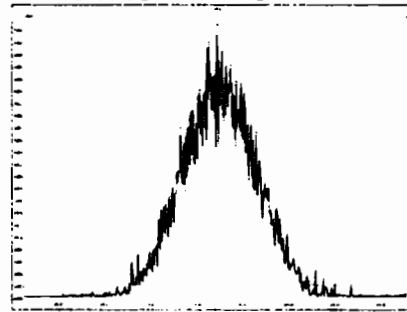
M 454.9728 R 10707



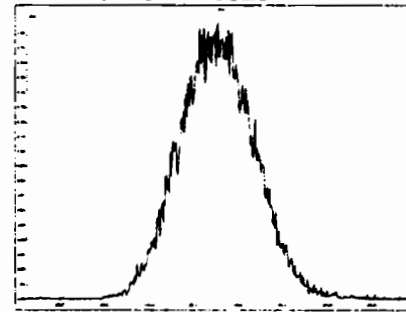
M 404.9760 R 11603



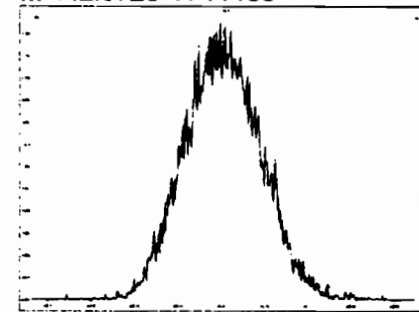
M 416.9760 R 11063



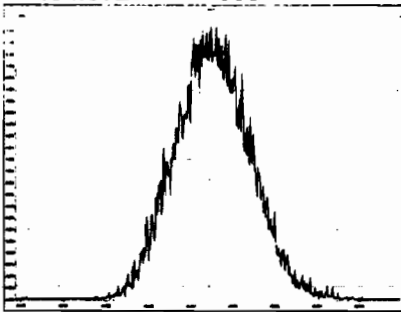
M 430.9728 R 10823



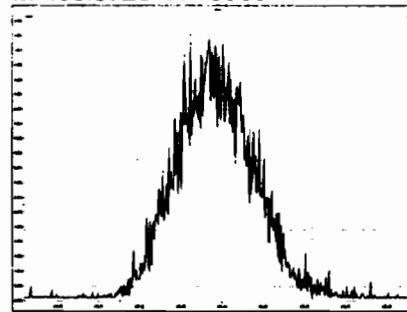
M 442.9728 R 11155



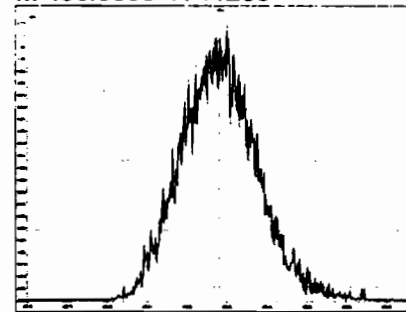
M 454.9728 R 11605



M 466.9728 R 10803



M 480.9696 R 11286

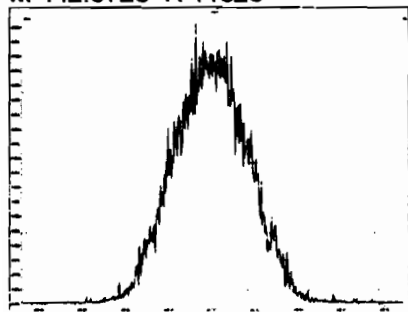


M 430.9728 R 11600

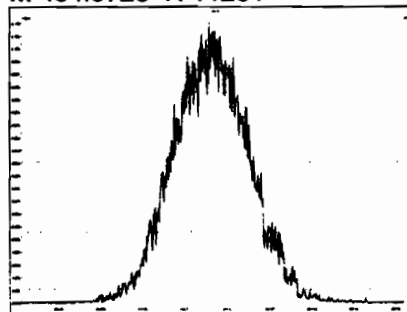


Printed: Sunday, February 02, 2020 22:17:46 Pacific Standard Time

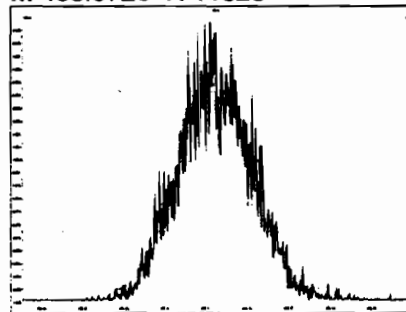
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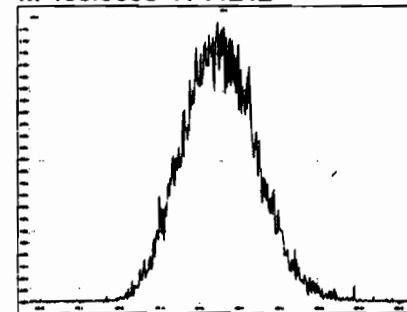
M 454.9728 R 11261



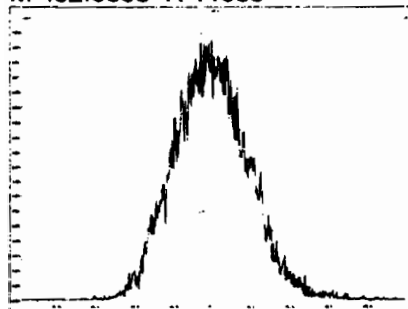
M 466.9728 R 11820



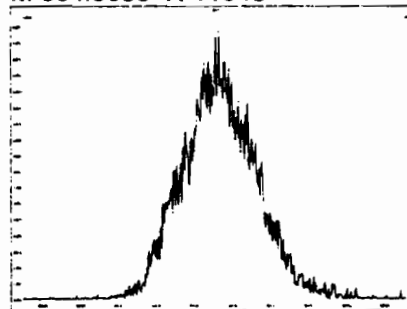
M 480.9696 R 11212



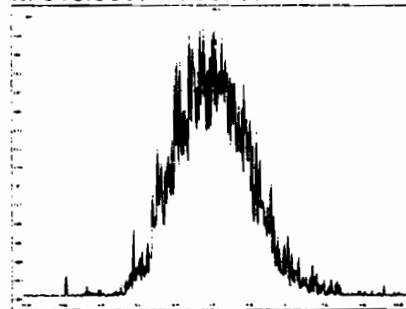
M 492.9696 R 11968



M 504.9696 R 11548



M 516.9697 R 11757



Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:47:25 Pacific Standard Time

Printed: Monday, February 03, 2020 10:47:37 Pacific Standard Time

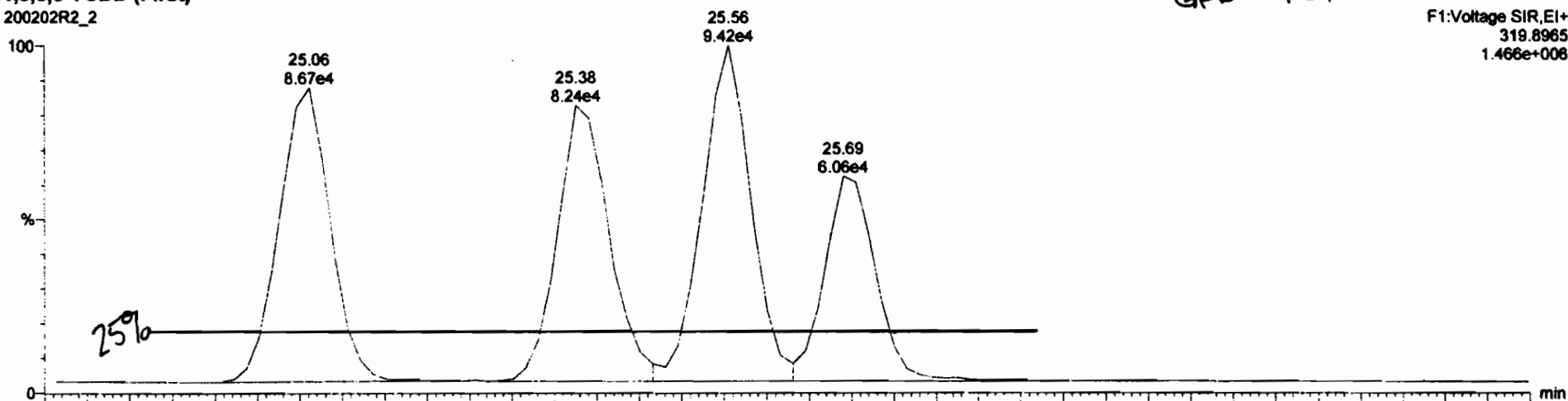
Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200202R2_2

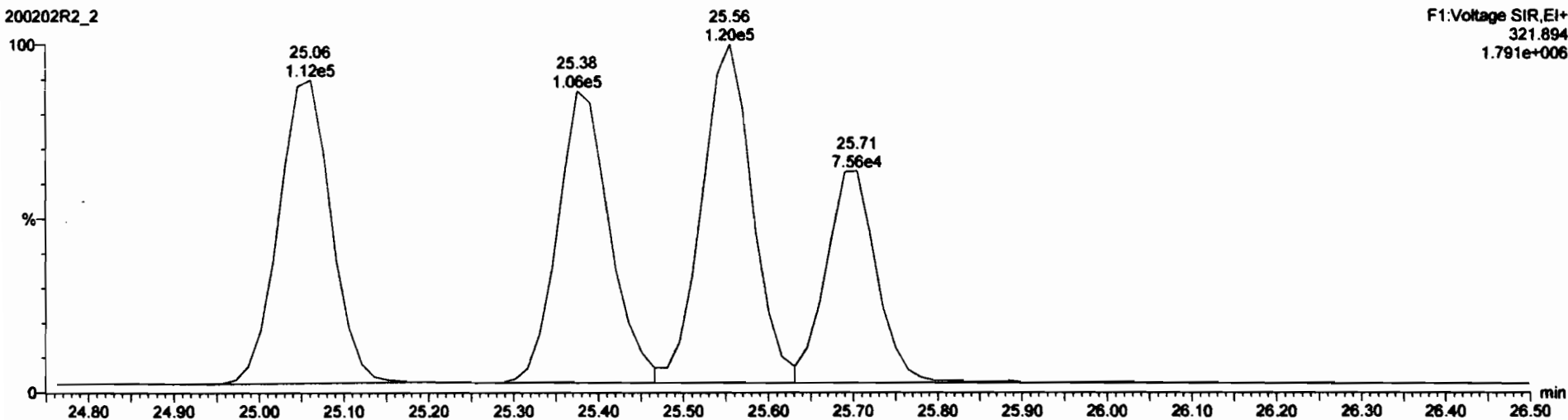
GPB 02/03/2020

F1:Voltage SIR,EI+
319.8985
1.466e+006



200202R2_2

F1:Voltage SIR,EI+
321.894
1.791e+006



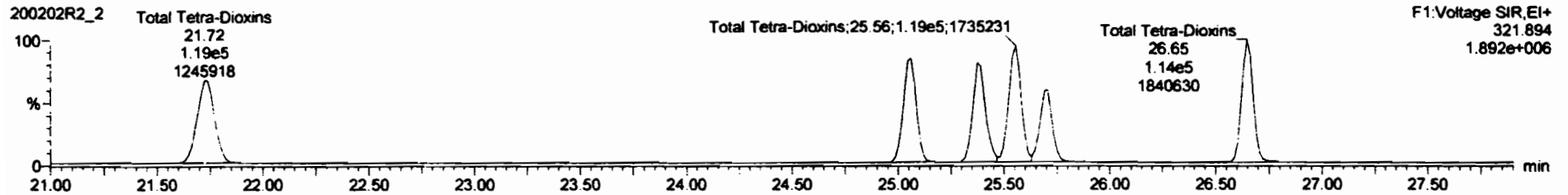
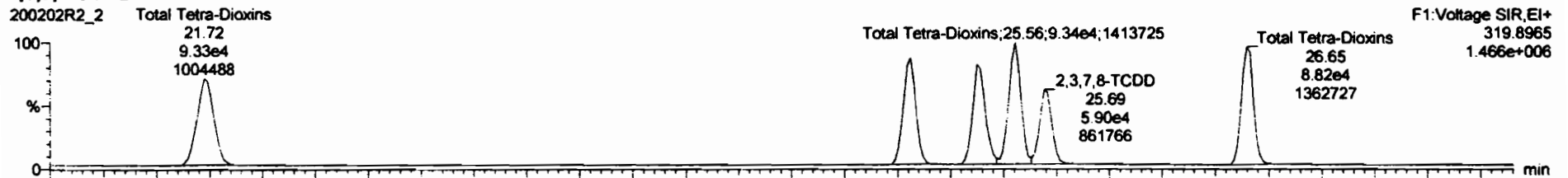
Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:47:02 Pacific Standard Time
Printed: Monday, February 03, 2020 10:47:05 Pacific Standard Time

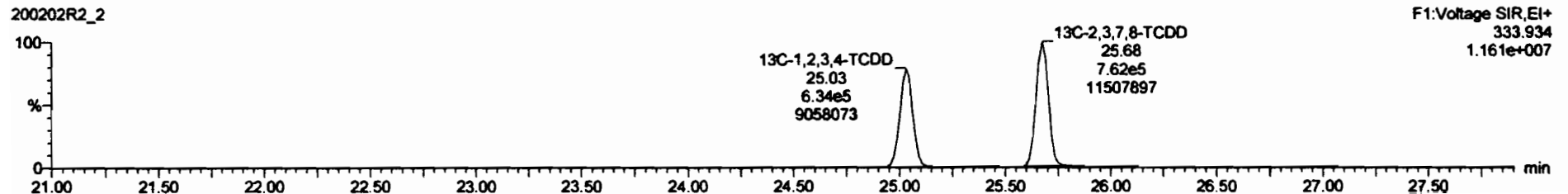
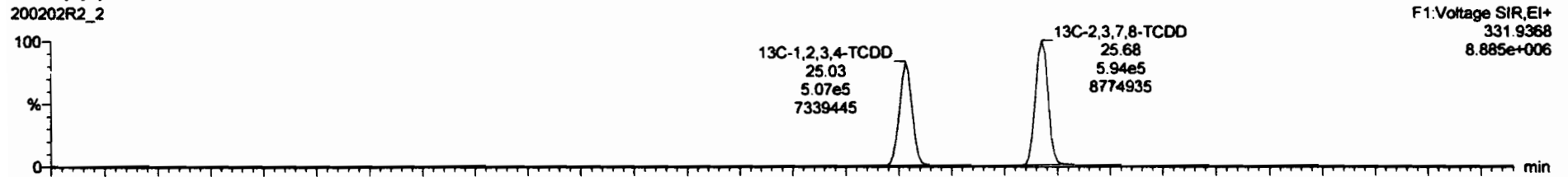
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Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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

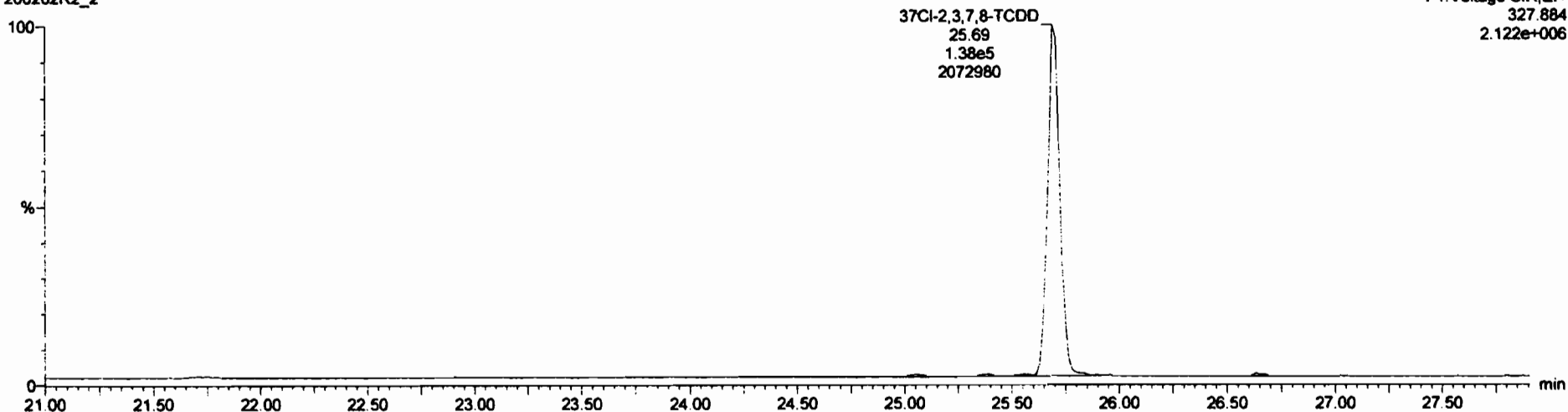


Dataset: Untitled

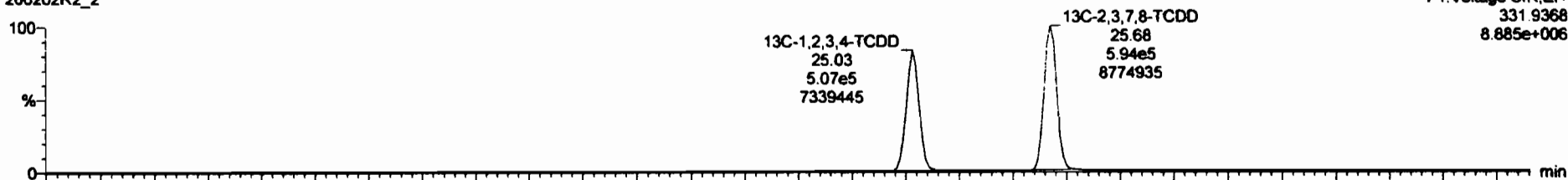
Last Altered: Monday, February 03, 2020 10:47:02 Pacific Standard Time
Printed: Monday, February 03, 2020 10:47:05 Pacific Standard Time

Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

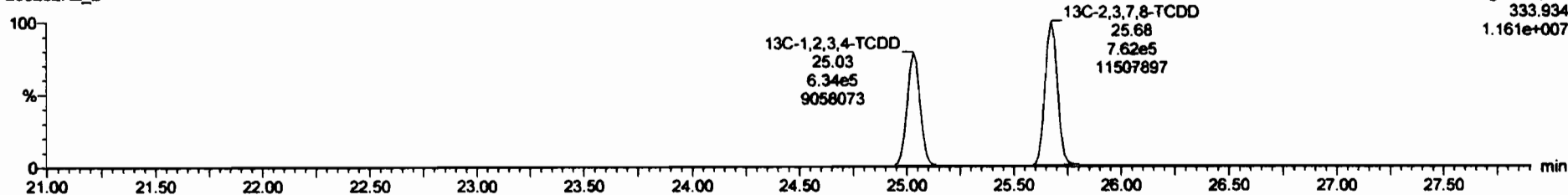
37Cl-2,3,7,8-TCDD
200202R2_2



13C-1,2,3,4-TCDD
200202R2_2



200202R2_2

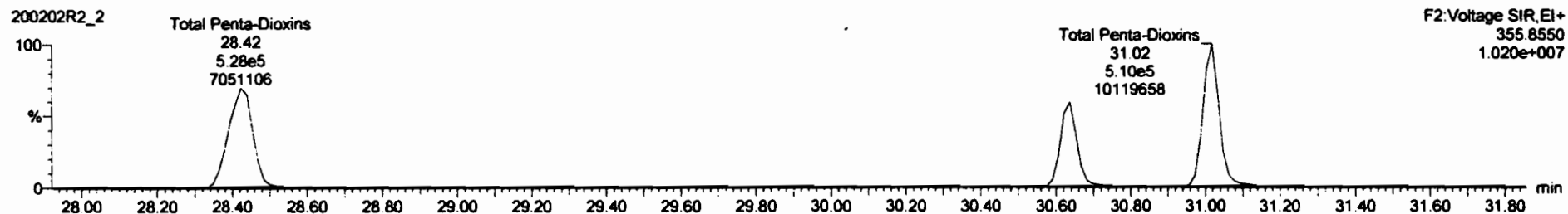


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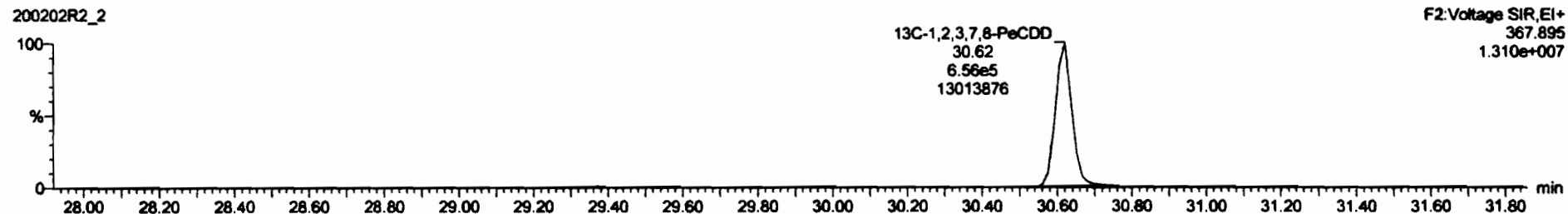
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Printed: Monday, February 03, 2020 10:47:05 Pacific Standard Time

Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD



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



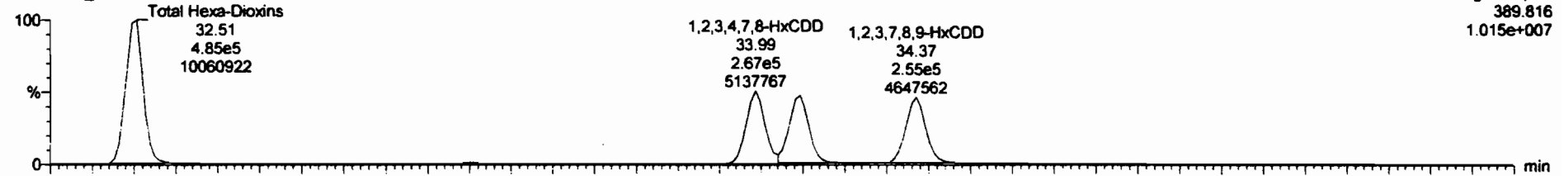
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Printed: Monday, February 03, 2020 10:47:05 Pacific Standard Time

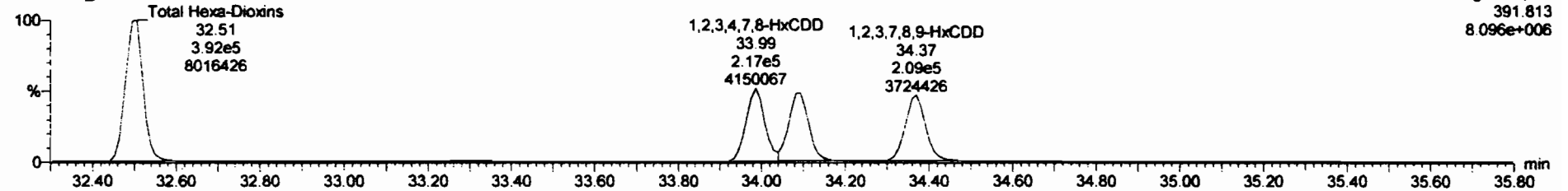
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1,2,3,4,7,8-HxCDD

200202R2_2

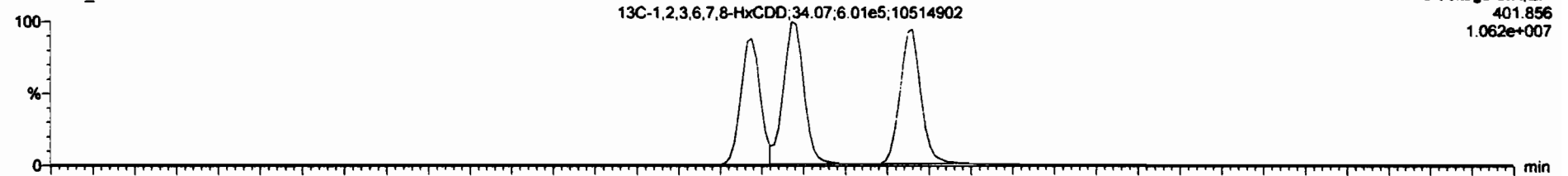


200202R2_2

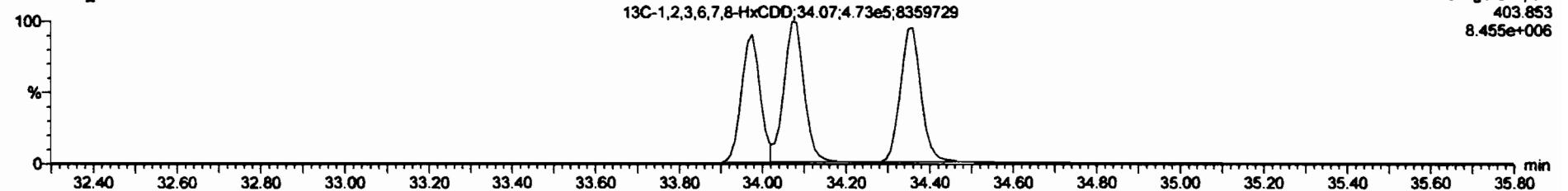


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200202R2_2



200202R2_2



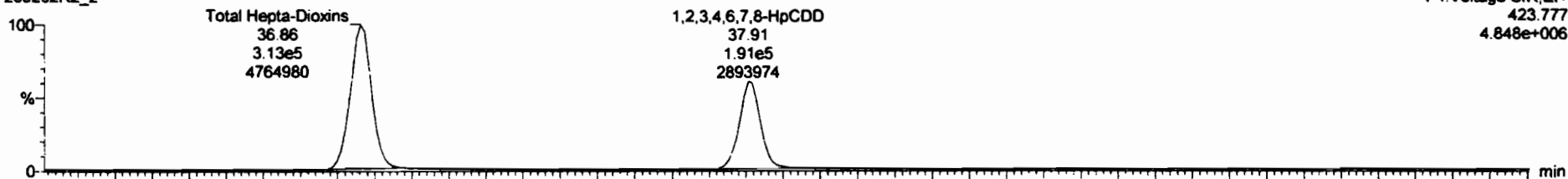
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Printed: Monday, February 03, 2020 10:47:05 Pacific Standard Time

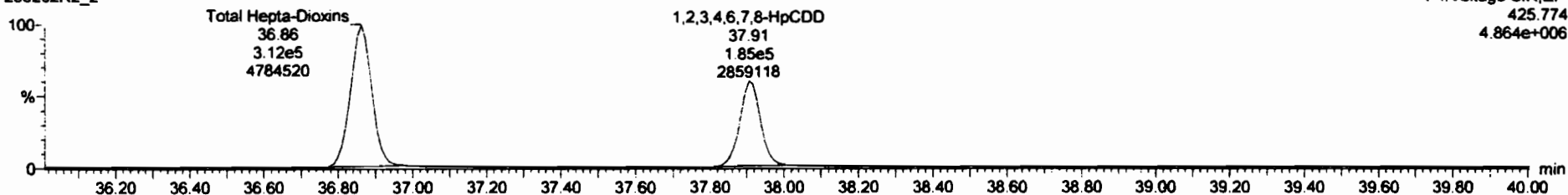
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1,2,3,4,6,7,8-HpCDD

200202R2_2

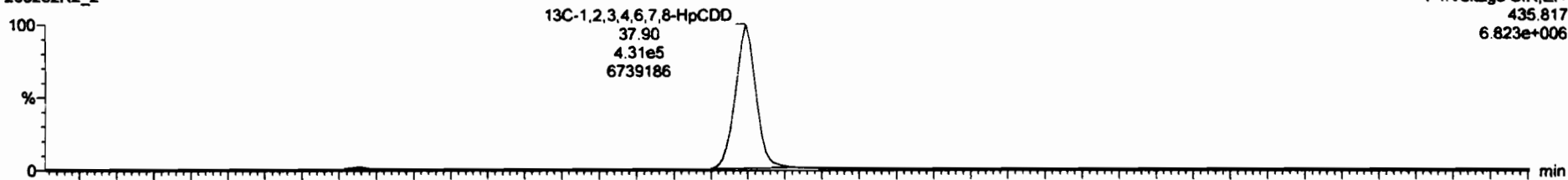


200202R2_2

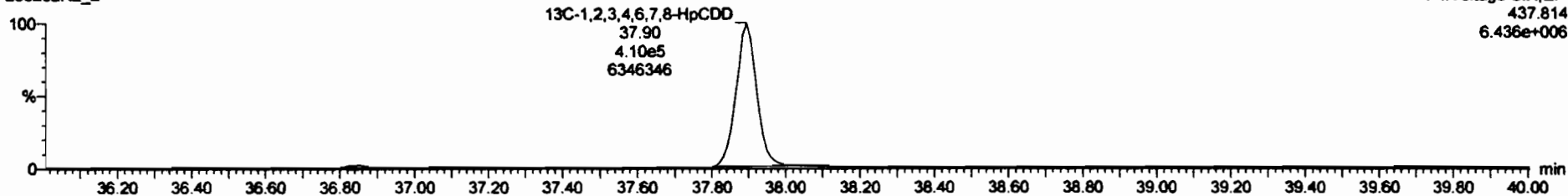


13C-1,2,3,4,6,7,8-HpCDD

200202R2_2



200202R2_2

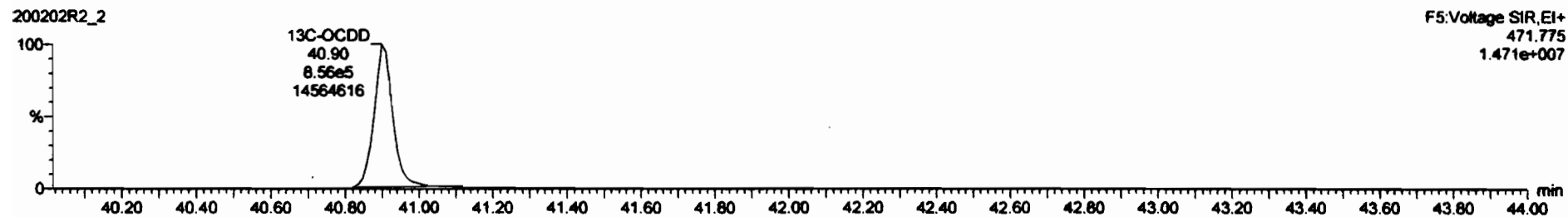
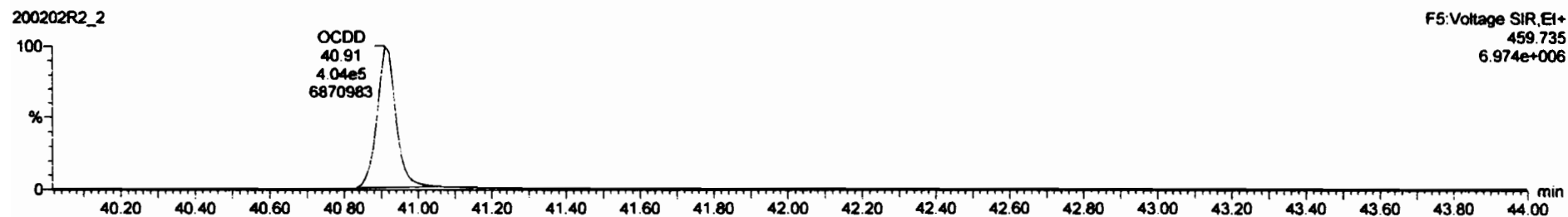


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Printed: Monday, February 03, 2020 10:47:05 Pacific Standard Time

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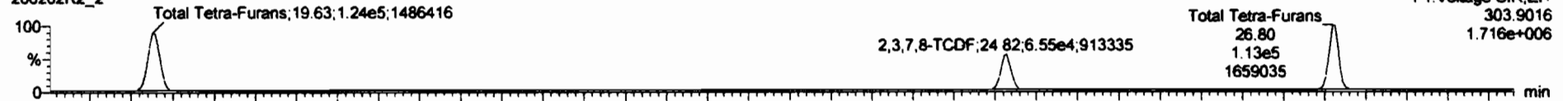
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Printed: Monday, February 03, 2020 10:47:05 Pacific Standard Time

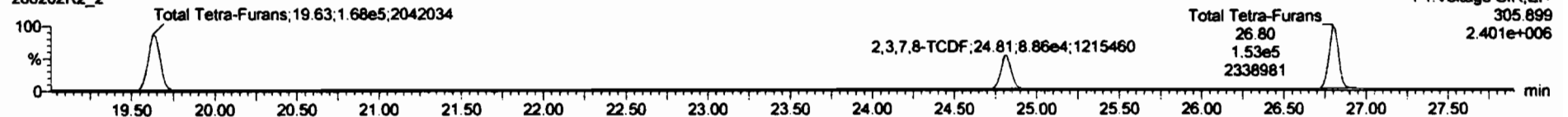
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2,3,7,8-TCDF

200202R2_2

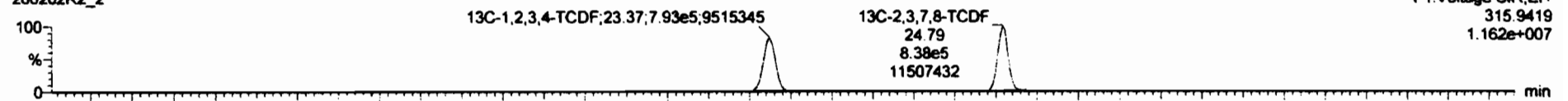


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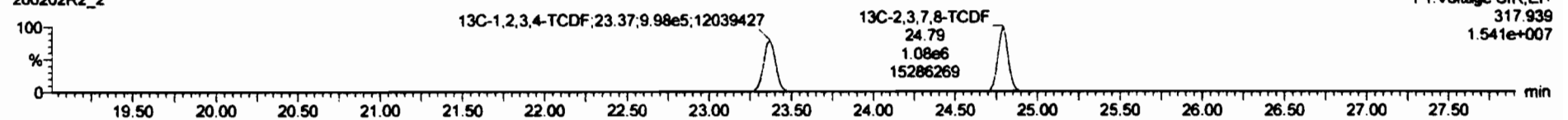


13C-2,3,7,8-TCDF

200202R2_2

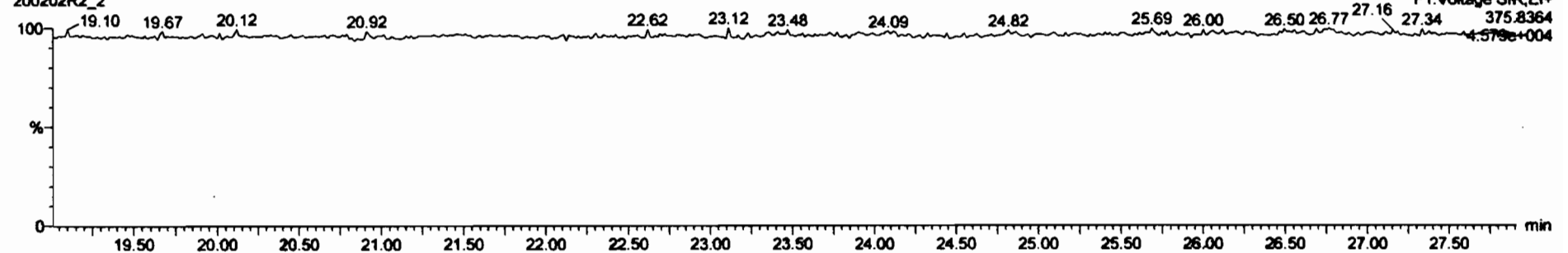


200202R2_2

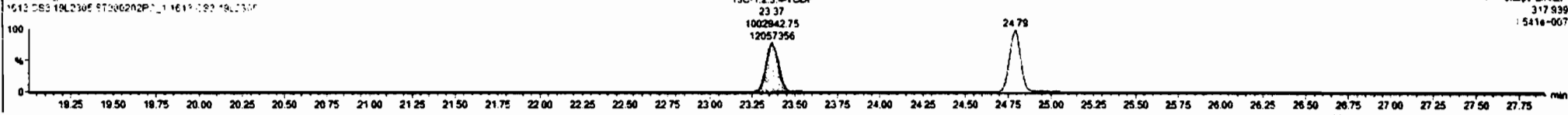
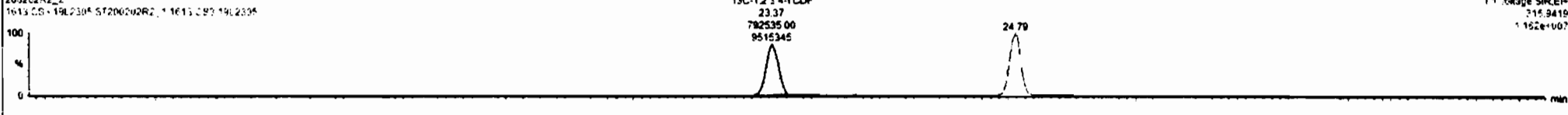
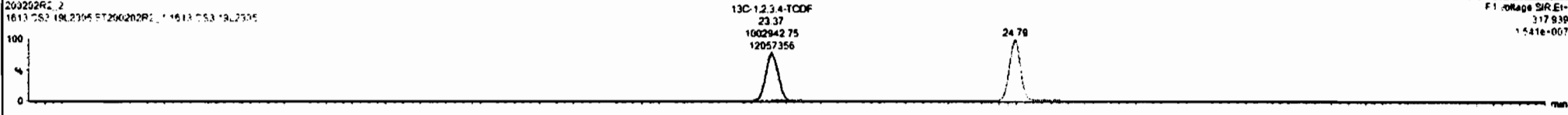
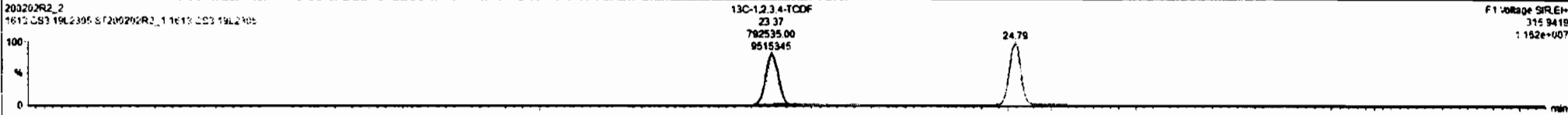


DPE1

200202R2_2



SI	Method	Unit	Conc	Peak	Area	Height	Width	Area%	Height%	Area%	Height%	Area%	Height%	Area%	Height%	Area%	Height%
38	13C-1,2,3,4,6,9-HxCDF	1.00e6	1.00e6	0.51	0.51	NO	1.0000	33.52	33.51	NO	1.000	1.000	100	100	YES		
39	Total Tetra-Dioxins						0.8861	24.62		NO	0.000		85.3		NO		
40	Total Penta-Dioxins						0.9723	29.96		NO	0.000		208		NO		
41	Total Hexa-Dioxins						0.9211	33.63		NO	0.000		245		NO		
42	Total Hepta-Dioxins						0.9231	37.64		NO	0.000		129		NO		
43	Total Tetra-Furans						0.6020	23.61		NO	0.000		46.4		NO		
44	1st Func. Penta-Furans						0.9074	27.09		NO	0.000				NO		
45	Total Penta-Furans						0.9874	29.27		NO	0.000		174		NO		
46	Total Hexa-Furans						0.8882	33.96		NO	0.000		284		NO		
47	Total Hepta-Furans						0.8511	37.63		NO	0.000		102		NO		
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																
52	PFK5																
53	DPE1																



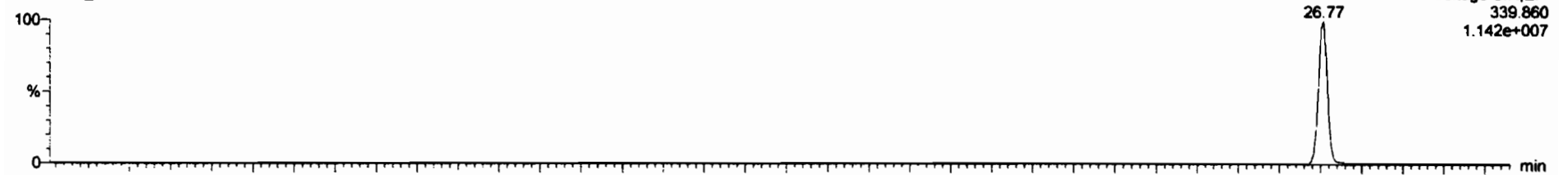
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Last Altered: Monday, February 03, 2020 10:47:02 Pacific Standard Time
Printed: Monday, February 03, 2020 10:47:05 Pacific Standard Time

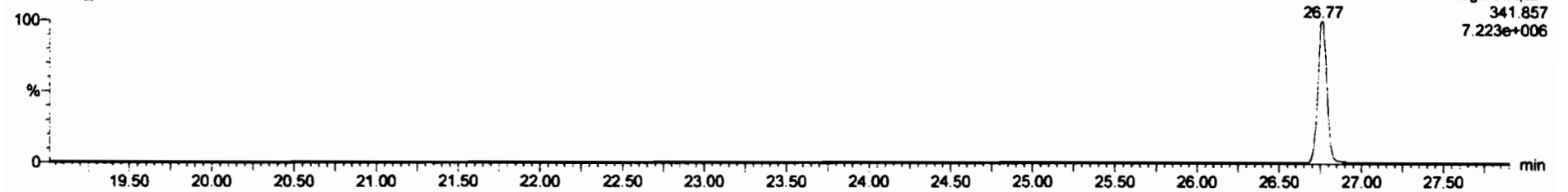
Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200202R2_2

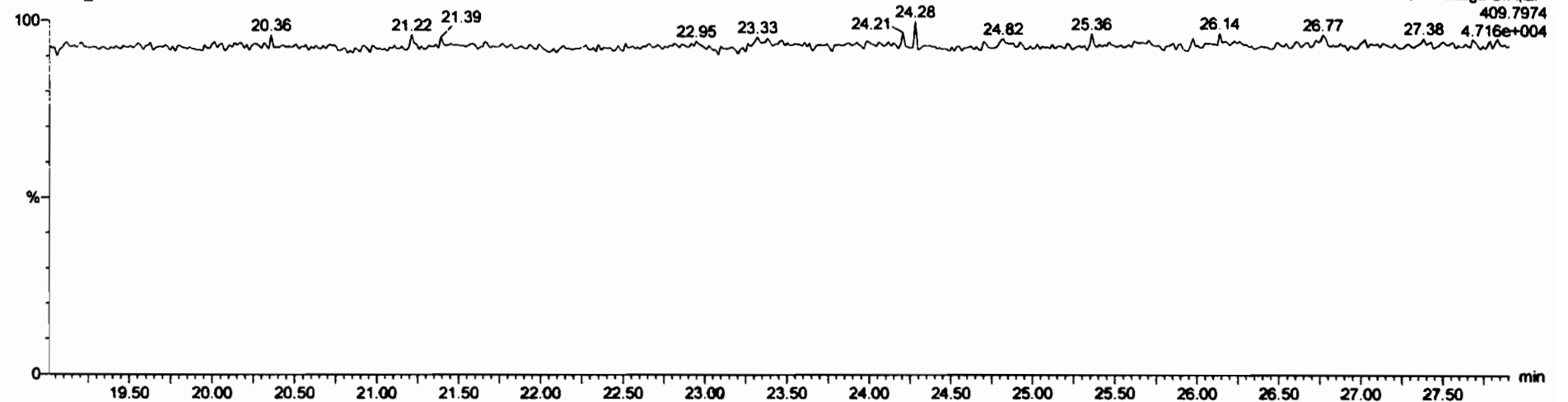


200202R2_2



DPE6

200202R2_2



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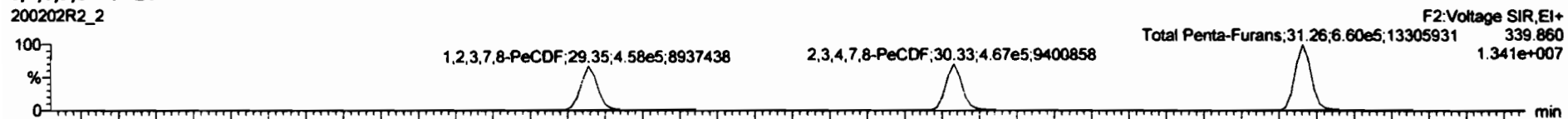
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Printed: Monday, February 03, 2020 10:47:05 Pacific Standard Time

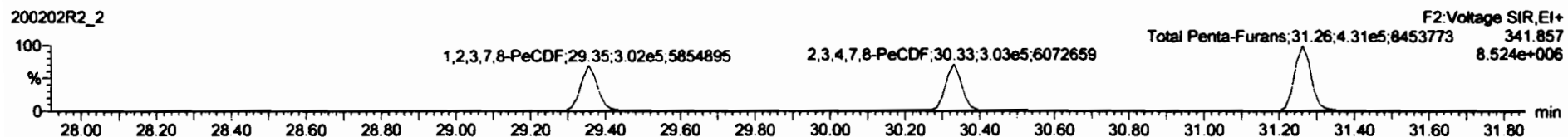
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1,2,3,7,8-PeCDF

200202R2_2

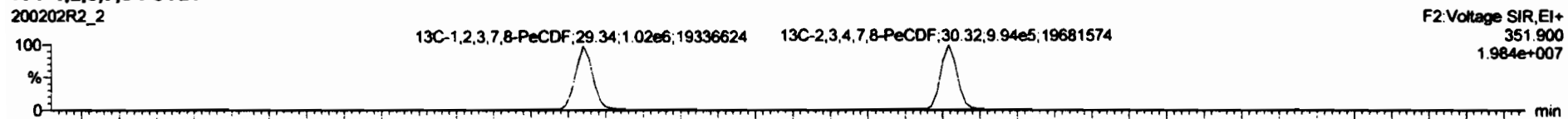


200202R2_2

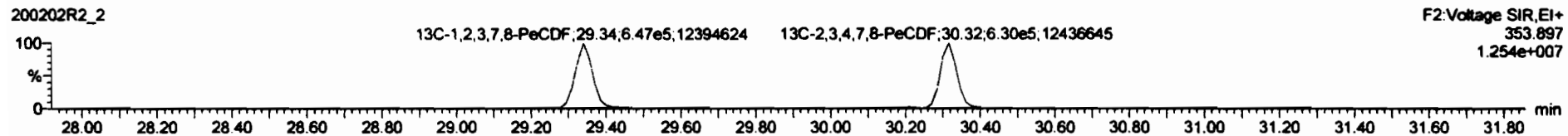


13C-1,2,3,7,8-PeCDF

200202R2_2

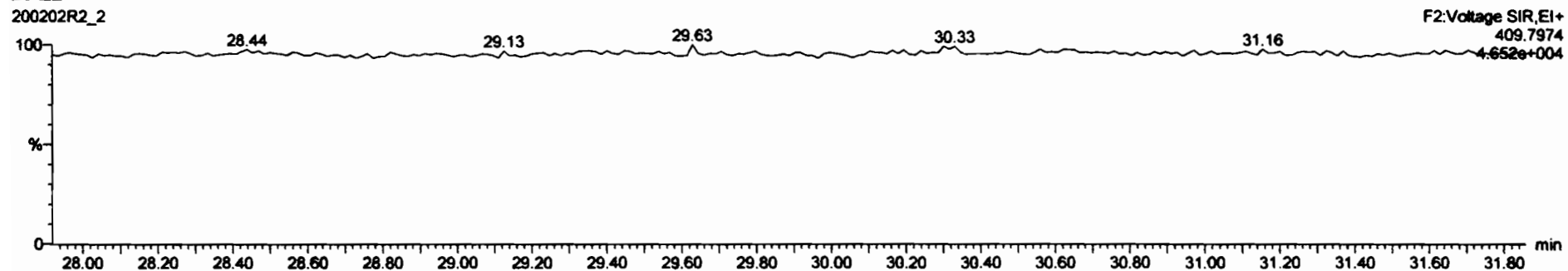


200202R2_2



DPE2

200202R2_2



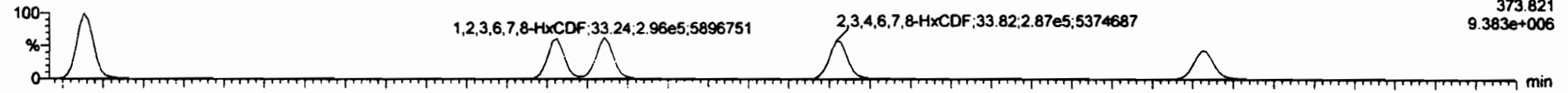
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Printed: Monday, February 03, 2020 10:47:05 Pacific Standard Time

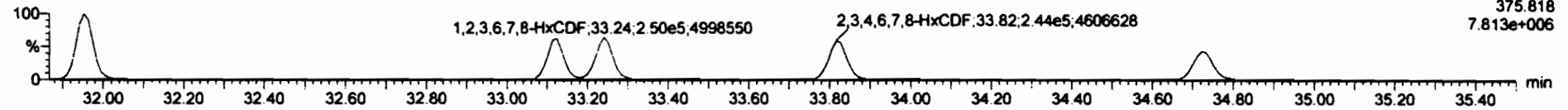
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1,2,3,4,7,8-HxCDF

200202R2_2

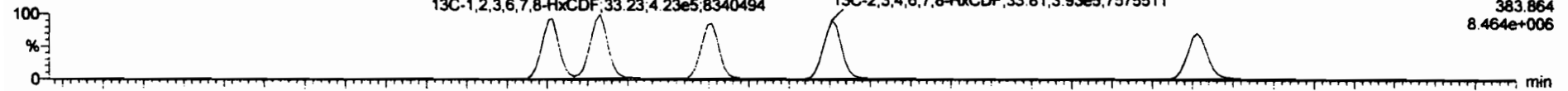


200202R2_2

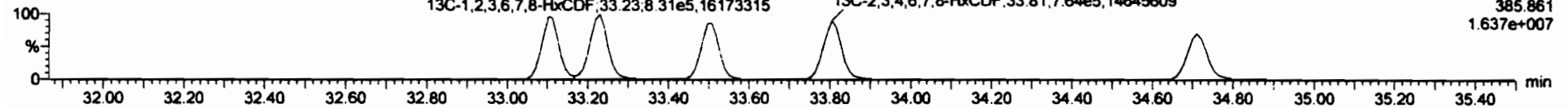


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200202R2_2

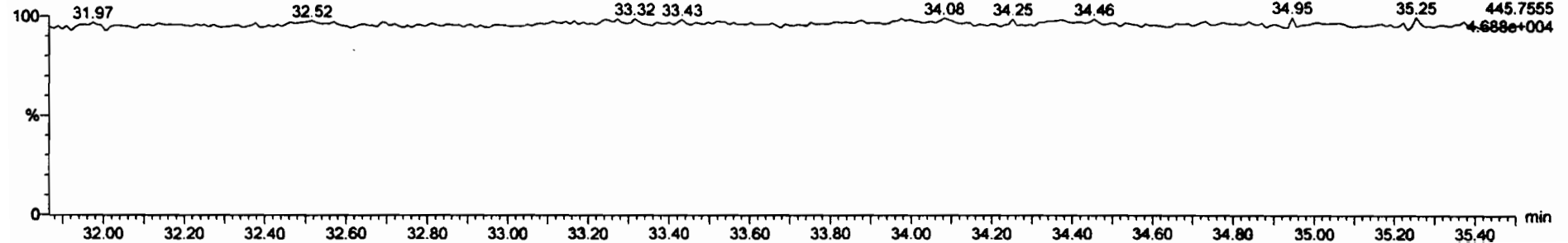


200202R2_2



DPE3

200202R2_2



Dataset: Untitled

Last Altered: Monday, February 03, 2020 10:47:02 Pacific Standard Time

Printed: Monday, February 03, 2020 10:47:05 Pacific Standard Time

Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

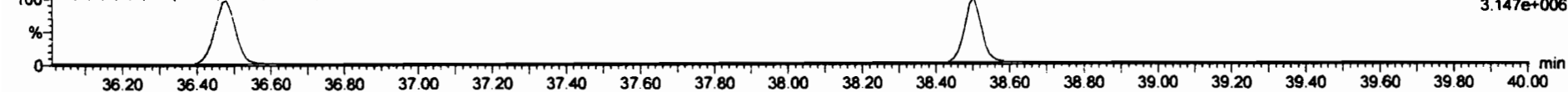
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200202R2_2

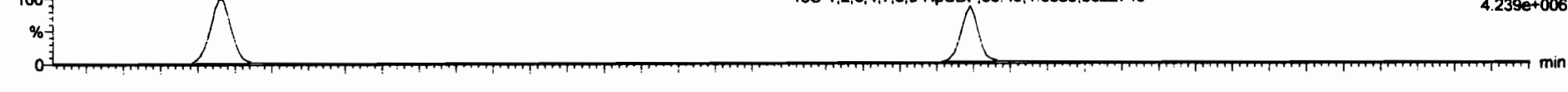
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13C-1,2,3,4,6,7,8-HpCDF

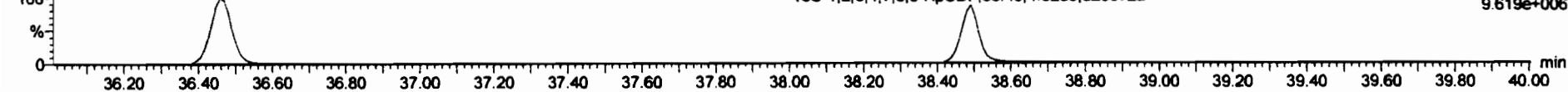
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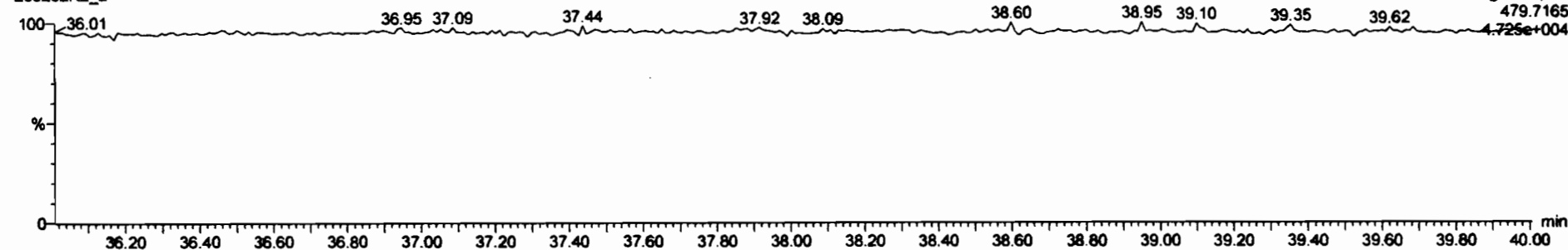
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DPE4

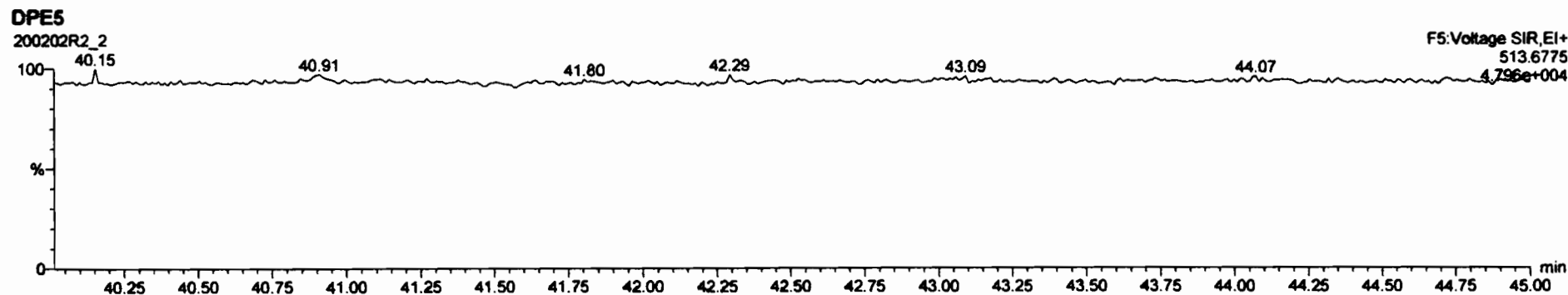
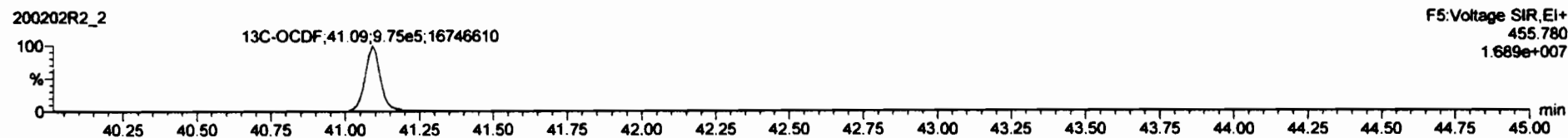
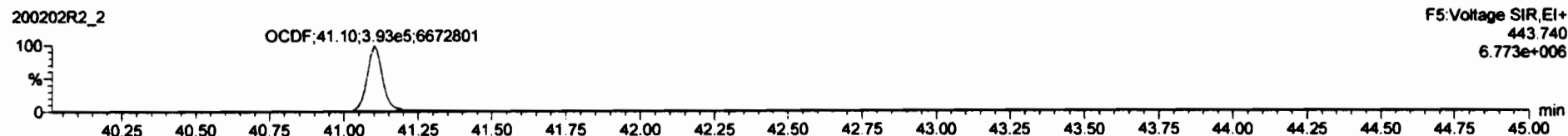
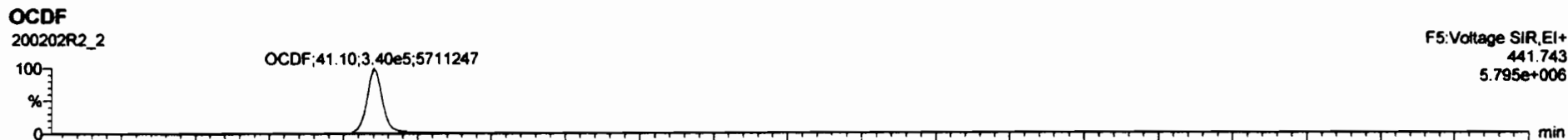
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Last Altered: Monday, February 03, 2020 10:47:02 Pacific Standard Time
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Name: 200202R2_2, Date: 02-Feb-2020, Time: 23:04:08, ID: ST200202R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

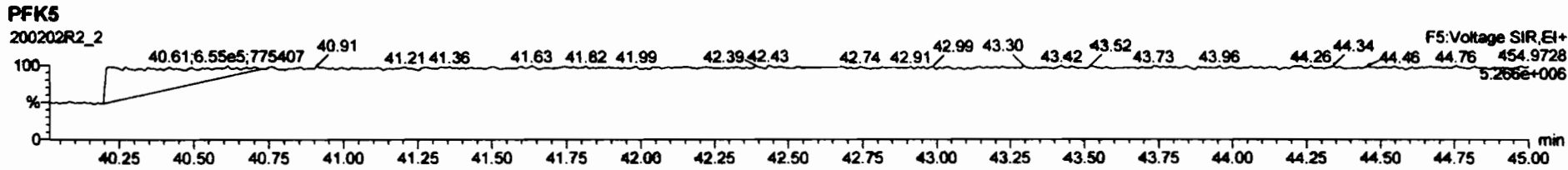
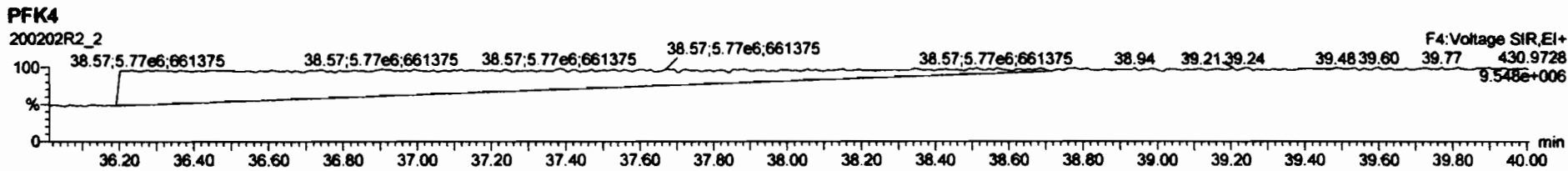
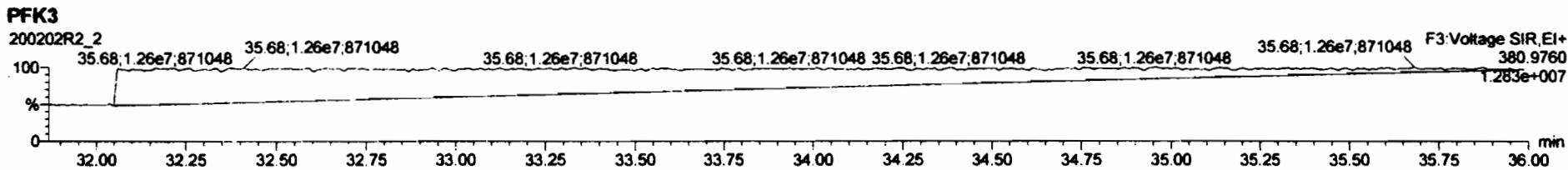
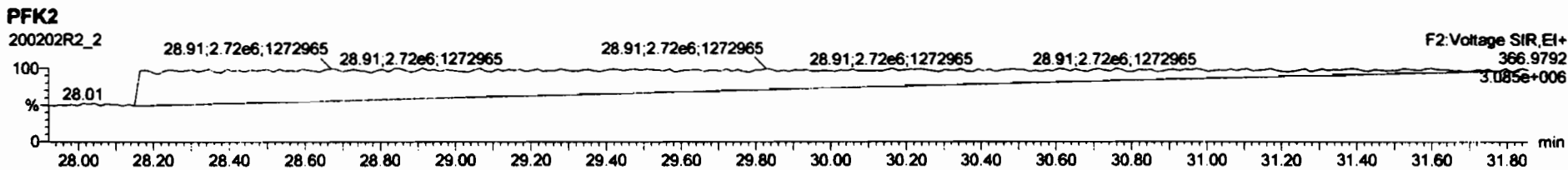
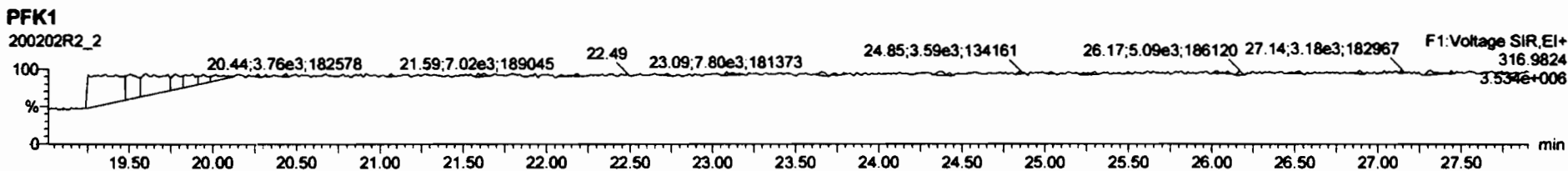


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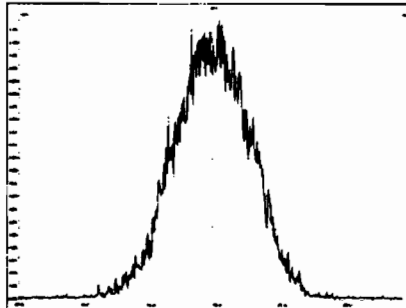
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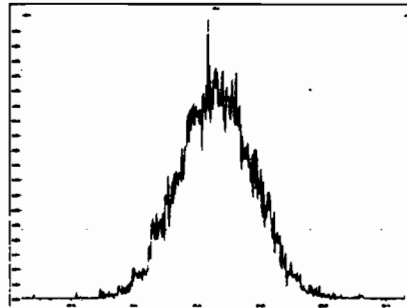


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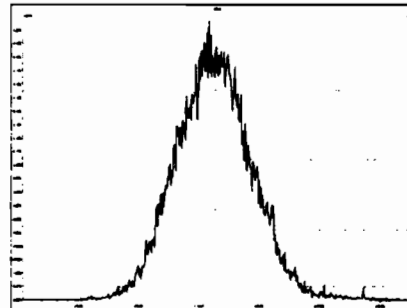
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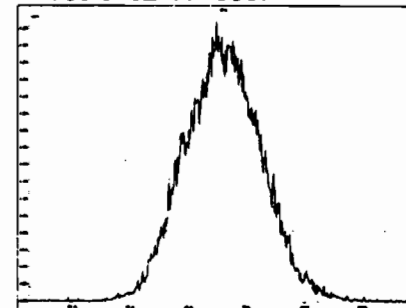
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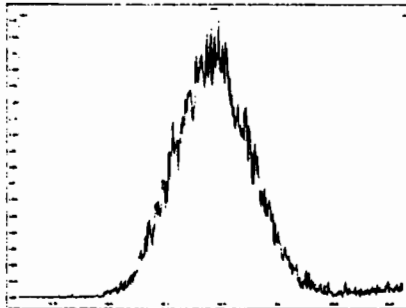
M 318.9792 R 10988



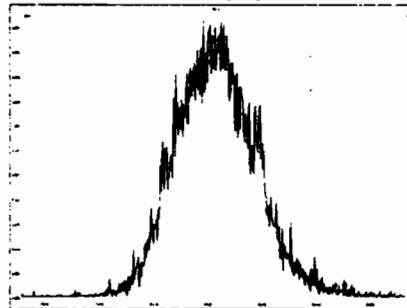
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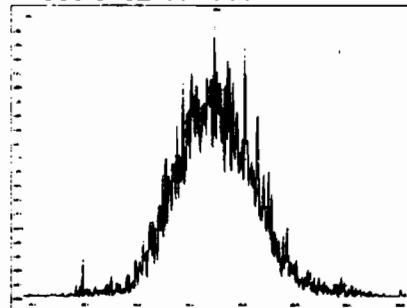
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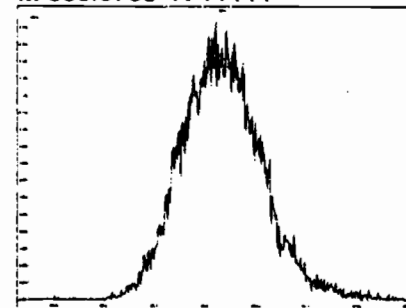
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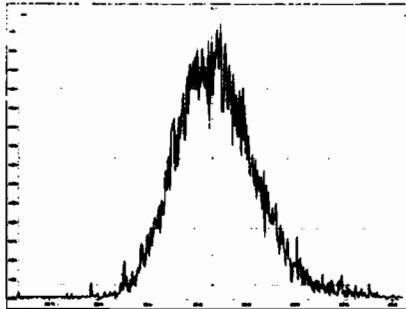
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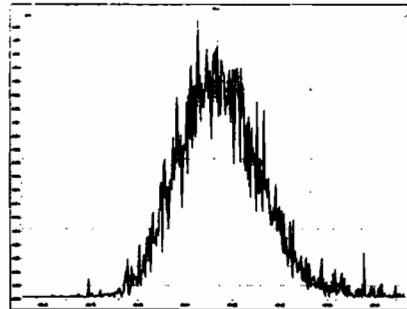
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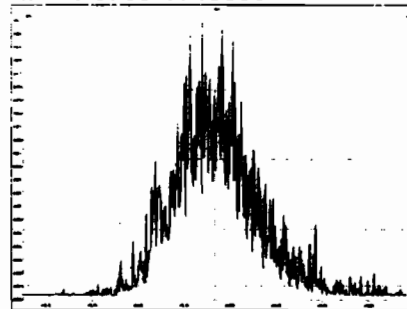
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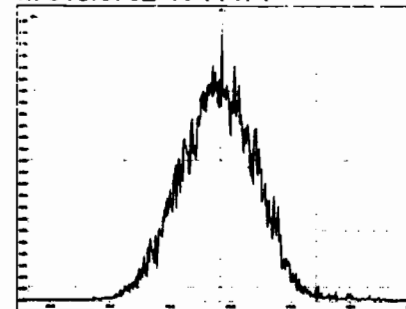
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M 416.9760 R 10000

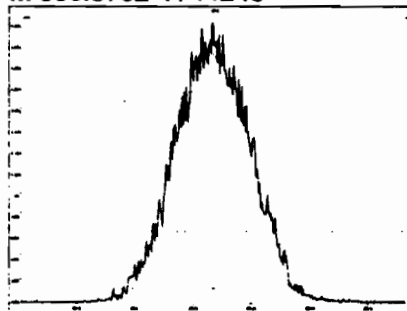


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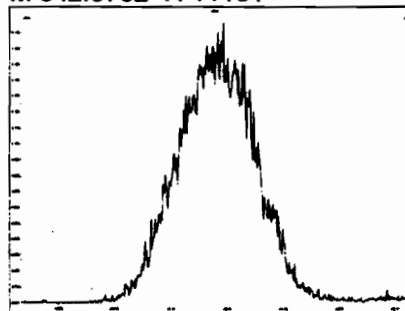


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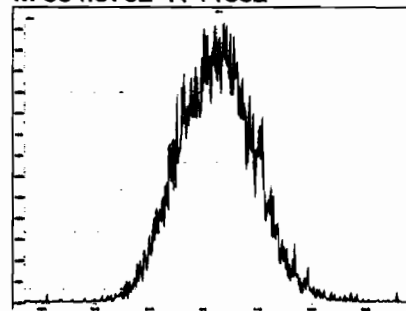
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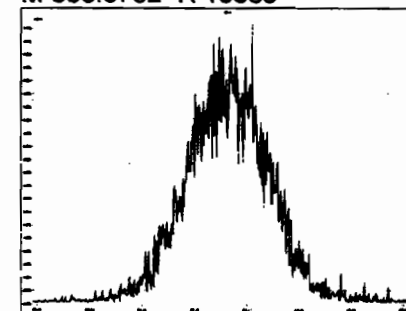
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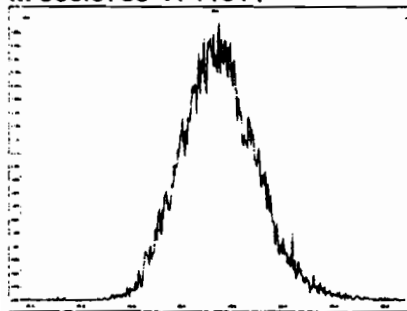
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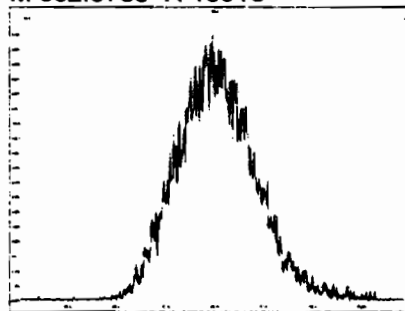
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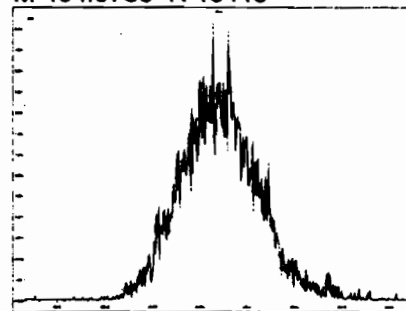
M 380.9760 R 11014



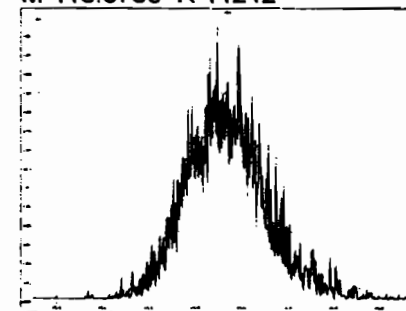
M 392.9760 R 10916



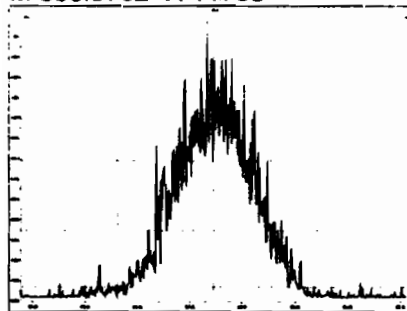
M 404.9760 R 10419



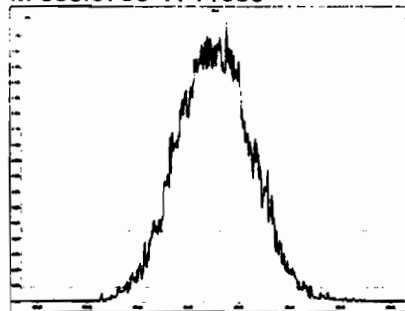
M 416.9760 R 11212



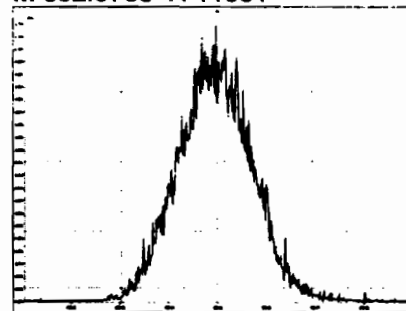
M 366.9792 R 11788



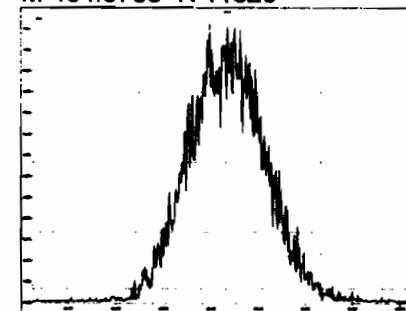
M 380.9760 R 11389



M 392.9760 R 11061

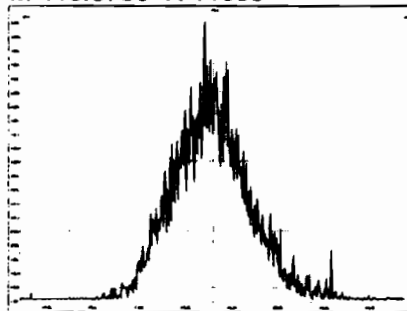


M 404.9760 R 11320

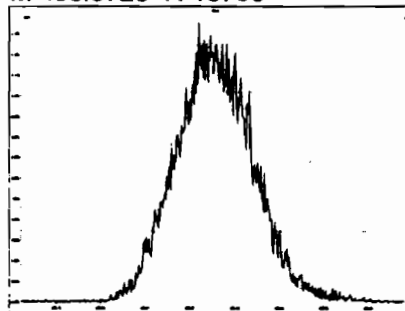


Printed: Monday, February 03, 2020 08:37:03 Pacific Standard Time

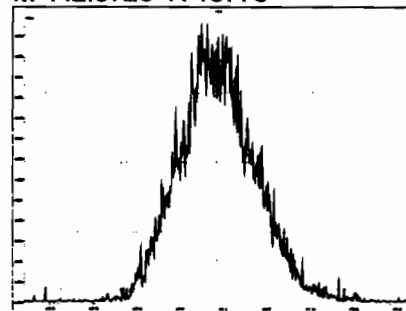
M 416.9760 R 11639



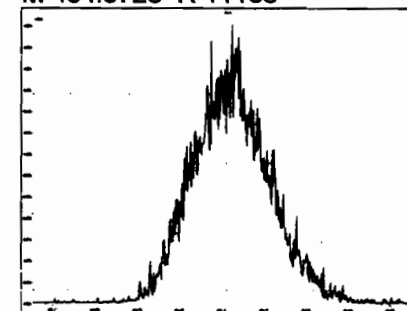
M 430.9728 R 10799



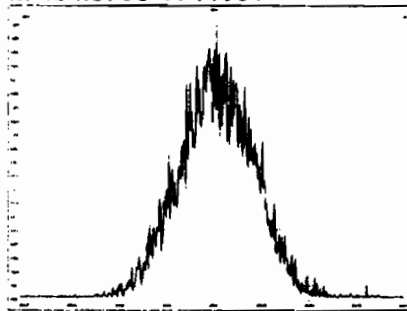
M 442.9728 R 10775



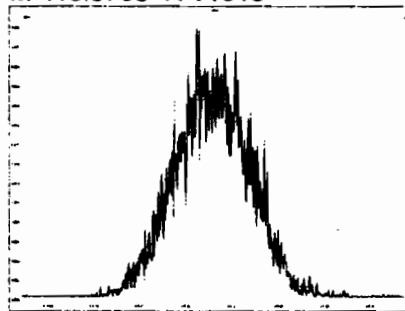
M 454.9728 R 11138



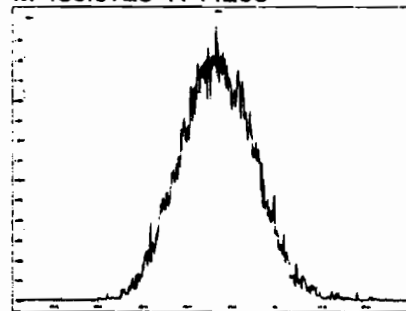
M 404.9760 R 11501



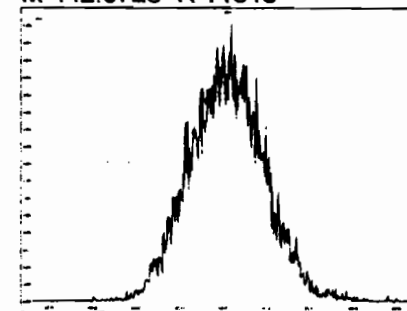
M 416.9760 R 11616



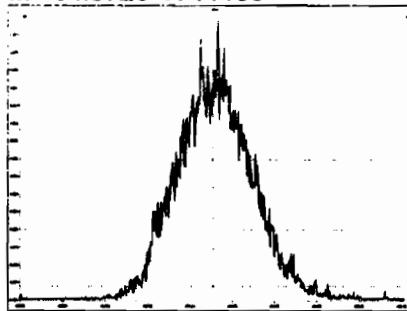
M 430.9728 R 11293



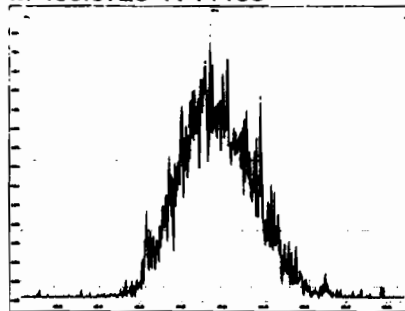
M 442.9728 R 11313



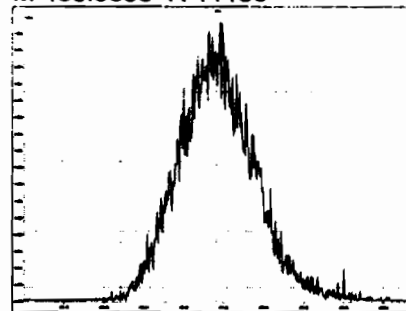
M 454.9728 R 11160



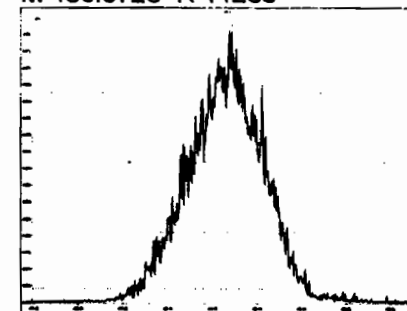
M 466.9728 R 11168



M 480.9696 R 11135

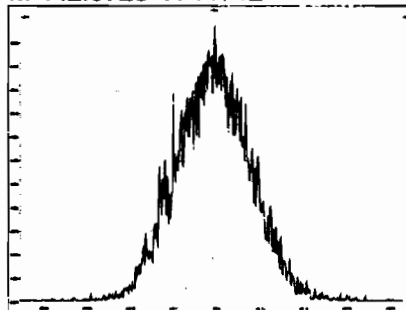


M 430.9728 R 11286

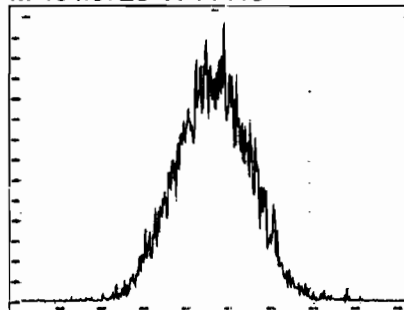


Printed: Monday, February 03, 2020 08:37:03 Pacific Standard Time

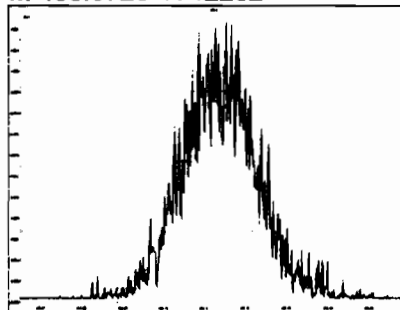
M 442.9728 R 11712



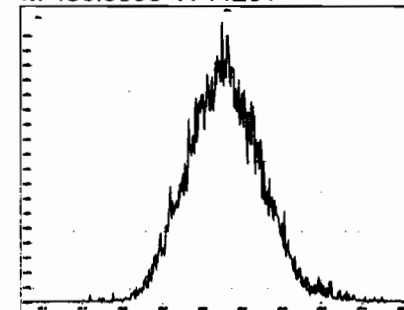
M 454.9728 R 11416



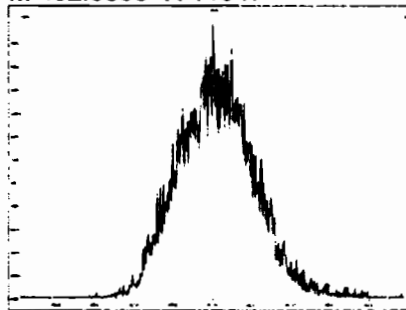
M 466.9728 R 12202



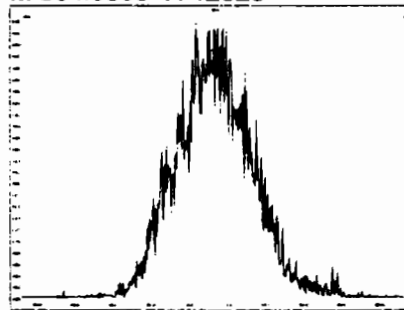
M 480.9696 R 11261



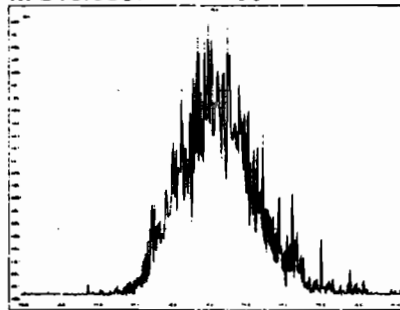
M 492.9696 R 11647



M 504.9696 R 12023



M 516.9697 R 11166



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200203R1-1

Reviewed By: C1 02/04/2020
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>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?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
- Bottle position verified?	<u>GRB</u>	

	<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 checked="" type="checkbox"/> NA
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:

Dataset: U:\VG12.PRO\Results\200203R1\200203R1-1.qld

Last Altered: Monday, February 03, 2020 12:52:30 Pacific Standard Time

Printed: Monday, February 03, 2020 12:55:07 Pacific Standard Time

GR 02/03/2020

CT 02/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	rfy	REF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD-coe
1	1 2,3,7,8-TCDD	1.41e5	1.41e6	0.77	NO	0.988	25.72	25.71	NO	1.001	1.001	10.105	101	NO
2	2 1,2,3,7,8-PeCDD	4.93e5	1.08e6	0.63	NO	0.972	30.66	30.65	NO	1.001	1.001	47.018	94.0	NO
3	3 1,2,3,4,7,8-HxCDD	4.34e5	8.15e5	1.22	NO	1.07	34.00	34.00	NO	1.000	1.000	49.782	99.6	NO
4	4 1,2,3,6,7,8-HxCDD	4.49e5	1.02e6	1.24	NO	0.921	34.08	34.10	NO	1.000	1.001	47.706	95.4	NO
5	5 1,2,3,7,8,9-HxCDD	4.14e5	9.26e5	1.20	NO	0.918	34.39	34.38	NO	1.001	1.001	48.708	97.4	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.11e5	6.96e5	0.99	NO	0.923	37.92	37.93	NO	1.000	1.001	48.462	96.9	NO
7	7 OCDD	5.98e5	1.28e6	0.88	NO	0.975	40.92	40.93	NO	1.000	1.000	95.808	95.8	NO
8	8 2,3,7,8-TCDF	1.56e5	1.95e6	0.74	NO	0.802	24.83	24.82	NO	1.001	1.001	9.9303	99.3	NO
9	9 1,2,3,7,8-PeCDF	7.68e5	1.71e6	1.53	NO	0.907	29.38	29.37	NO	1.001	1.001	49.550	99.1	NO
10	10 2,3,4,7,8-PeCDF	7.68e5	1.65e6	1.51	NO	0.952	30.36	30.35	NO	1.001	1.001	48.833	97.7	NO
11	11 1,2,3,4,7,8-HxCDF	4.65e5	1.06e6	1.20	NO	0.862	33.11	33.14	NO	1.000	1.001	50.851	102	NO
12	12 1,2,3,6,7,8-HxCDF	5.26e5	1.20e6	1.19	NO	0.841	33.25	33.25	NO	1.000	1.000	52.153	104	NO
13	13 2,3,4,6,7,8-HxCDF	4.89e5	1.07e6	1.18	NO	0.898	33.85	33.83	NO	1.001	1.000	51.118	102	NO
14	14 1,2,3,7,8,9-HxCDF	3.94e5	9.19e5	1.19	NO	0.858	34.72	34.73	NO	1.000	1.000	50.046	100	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.40e5	7.91e5	0.96	NO	0.851	36.51	36.49	NO	1.001	1.001	50.495	101	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.77e5	5.50e5	0.96	NO	0.980	38.50	38.51	NO	1.000	1.000	51.463	103	NO
17	17 OCDF	6.08e5	1.49e6	0.87	NO	0.806	41.11	41.12	NO	1.000	1.000	101.40	101	NO
18	18 13C-2,3,7,8-TCDD	1.41e6	1.20e6	0.78	NO	1.20	25.69	25.69	NO	1.026	1.026	97.829	97.8	NO
19	19 13C-1,2,3,7,8-PeCDD	1.08e6	1.20e6	0.63	NO	0.967	30.43	30.64	NO	1.215	1.223	92.868	92.9	NO
20	20 13C-1,2,3,4,7,8-HxCDD	8.15e5	1.04e6	1.28	NO	0.874	33.98	33.99	NO	1.014	1.014	89.715	89.7	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.02e6	1.04e6	1.29	NO	1.05	34.08	34.08	NO	1.017	1.017	93.926	93.9	NO
22	22 13C-1,2,3,7,8,9-HxCDD	9.26e5	1.04e6	1.25	NO	0.974	34.38	34.36	NO	1.026	1.025	91.466	91.5	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.96e5	1.04e6	1.04	NO	0.747	37.93	37.91	NO	1.132	1.131	89.661	89.7	NO
24	24 13C-OCDD	1.28e6	1.04e6	0.89	NO	0.707	40.81	40.92	NO	1.218	1.221	174.42	87.2	NO
25	25 13C-2,3,7,8-TCDF	1.95e6	1.84e6	0.78	NO	1.07	24.87	24.81	NO	0.993	0.990	99.503	99.5	NO
26	26 13C-1,2,3,7,8-PeCDF	1.71e6	1.84e6	1.59	NO	1.00	29.20	29.35	NO	1.166	1.172	92.557	92.6	NO
27	27 13C-2,3,4,7,8-PeCDF	1.65e6	1.84e6	1.54	NO	0.962	30.16	30.33	NO	1.204	1.211	93.217	93.2	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.06e6	1.04e6	0.51	NO	1.05	33.11	33.11	NO	0.988	0.988	97.207	97.2	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.20e6	1.04e6	0.51	NO	1.19	33.21	33.24	NO	0.991	0.992	97.000	97.0	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.07e6	1.04e6	0.51	NO	1.07	33.81	33.82	NO	1.009	1.009	96.201	96.2	NO
31	31 13C-1,2,3,7,8,9-HxCDF	9.19e5	1.04e6	0.51	NO	0.922	34.71	34.72	NO	1.036	1.036	95.844	95.8	NO

Dataset: U:\VG12.PRO\Results\200203R1\200203R1-1.qld

Last Altered: Monday, February 03, 2020 12:52:30 Pacific Standard Time

Printed: Monday, February 03, 2020 12:55:07 Pacific Standard Time

Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	Qty	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.91e5	1.04e6	0.43	NO	0.767	36.46	36.47	NO	1.088	1.088	99.243	99.2	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.50e5	1.04e6	0.42	NO	0.552	38.47	38.50	NO	1.148	1.149	95.828	95.8	NO
34	34 13C-OCDF	1.49e6	1.04e6	0.87	NO	0.789	41.05	41.11	NO	1.225	1.227	181.41	90.7	NO
35	35 37Cl-2,3,7,8-TCDD	1.40e5	1.20e6			1.18	25.72	25.71	NO	1.027	1.026	9.9328	99.3	NO
36	36 13C-1,2,3,4-TCDD	1.20e6	1.20e6	0.79	NO	1.00	25.08	25.05	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.84e6	1.84e6	0.79	NO	1.00	23.42	23.39	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.04e6	1.04e6	0.51	NO	1.00	33.52	33.51	NO	1.000	1.000	100.00	100	YES
39	39 Total Tetra-Dioxins		1.41e6			0.988	24.62		NO	0.000		85.135		NO
40	40 Total Penta-Dioxins		1.08e6			0.972	29.96		NO	0.000		209.86		NO
41	41 Total Hexa-Dioxins		0.00e0			0.921	33.63		NO	0.000		245.55		NO
42	42 Total Hepta-Dioxins		6.96e5			0.923	37.64		NO	0.000		133.39		NO
43	43 Total Tetra-Furans		1.95e6			0.802	23.61		NO	0.000		47.564		NO
44	44 1st Func. Penta-Furans		0.00e0			0.907	27.09		NO	0.000				NO
45	45 Total Penta-Furans		0.00e0			0.907	29.27		NO	0.000		167.68		NO
46	46 Total Hexa-Furans		0.00e0			0.898	33.56		NO	0.000		287.38		NO
47	47 Total Hepta-Furans		0.00e0			0.851	37.83		NO	0.000		101.96		NO

Dataset: Untitled

Last Altered: Monday, February 03, 2020 12:55:45 Pacific Standard Time
Printed: Monday, February 03, 2020 12:55:55 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.74
2	2 1,2,8,9-TCDD (Last)	26.66
3	3 1,2,4,7,9-PeCDD (First)	28.44
4	4 1,2,3,8,9-PeCDD (Last)	31.03
5	5 1,2,4,6,7,9-HxCDD (First)	32.51
6	6 1,2,3,7,8,9-HxCDD (Last)	34.38
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.87
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.93
9	9 1,3,6,8-TCDF (First)	19.64
10	10 1,2,8,9-TCDF (Last)	26.81
11	11 1,3,4,6,8-PeCDF (First)	26.77
12	12 1,2,3,8,9-PeCDF (Last)	31.28
13	13 1,2,3,4,6,8-HxCDF (First)	31.96
14	14 1,2,3,7,8,9-HxCDF (Last)	34.73
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.49
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.51

Dataset: Untitled

Last Altered: Tuesday, February 04, 2020 09:05:13 Pacific Standard Time

Printed: Tuesday, February 04, 2020 09:12:56 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

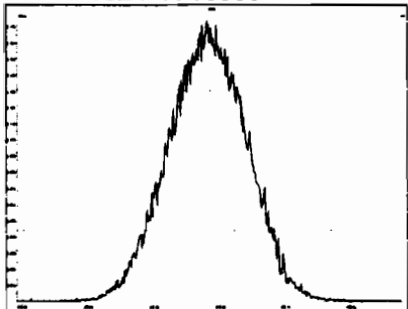
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200203R1_1	ST200203R1_1 1613 CS3 19L2305	03-Feb-20	11:58:10
2	200203R1_2	B0A0027-BS1 OPR 10	03-Feb-20	12:46:00
3	200203R1_3	B0A0074-BS1 OPR 10	03-Feb-20	13:32:35
4	200203R1_4	SOLVENT BLANK	03-Feb-20	14:23:54
5	200203R1_5	B0A0027-BLK1 Method Blank 10	03-Feb-20	15:10:51
6	200203R1_6	B0A0074-BLK1 Method Blank 10	03-Feb-20	15:57:49
7	200203R1_7	1903740-01 PDI-031SC-B-00-02-191017 17.45	03-Feb-20	16:44:54
8	200203R1_8	1903740-02 PDI-031SC-B-02-04-191017 15.52	03-Feb-20	17:31:54
9	200203R1_9	1903740-03 PDI-031SC-B-04-06-191017 11.79	03-Feb-20	18:18:50
10	200203R1_10	1903740-04 PDI-031SC-B-06-08-191017 12.8	03-Feb-20	19:05:46
11	200203R1_11	1903654-07@2X PDI-075SC-B-04-06-191013 ...	03-Feb-20	19:52:45
12	200203R1_12	B0A0056-DUP1@10X Duplicate 16.6	03-Feb-20	20:39:45
13	200203R1_13	1903827-01@5X PDI-057SC-B-00-02-191023 ...	03-Feb-20	21:26:43
14	200203R1_14	1903654-01@5X PDI-073SC-B-00-02-191013 ...	03-Feb-20	22:13:42
15	200203R1_15	1903654-01@25X PDI-073SC-B-00-02-19101...	03-Feb-20	23:00:42

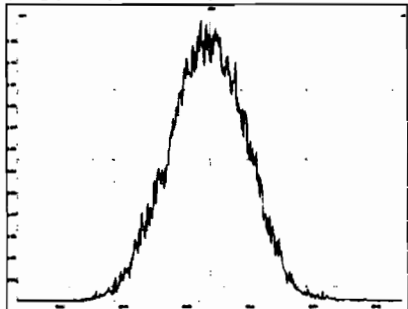
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, February 03, 2020 11:52:54 Pacific Standard Time

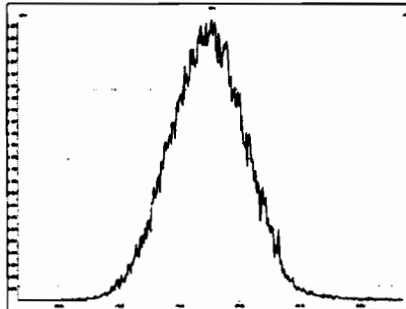
M 292.9824 R 10686



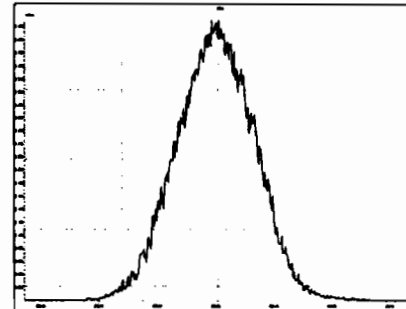
M 304.9824 R 10776



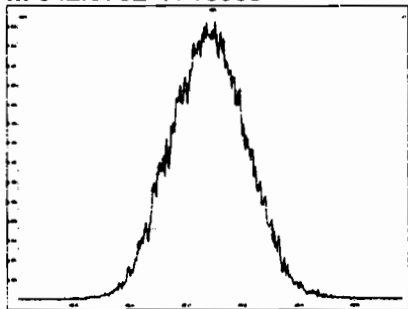
M 318.9792 R 10821



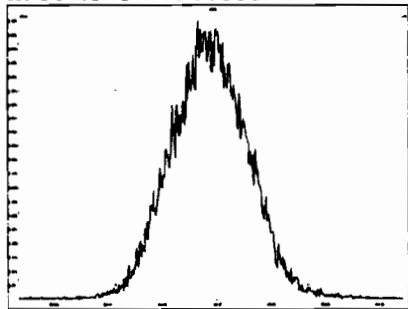
M 330.9792 R 10866



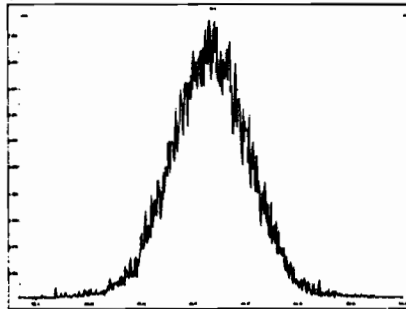
M 342.9792 R 10965



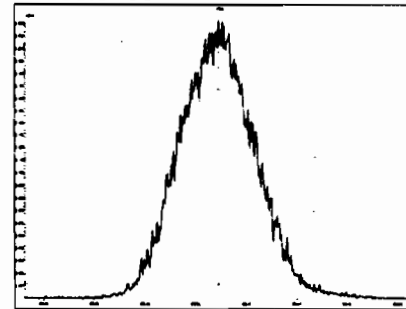
M 354.9792 R 11060



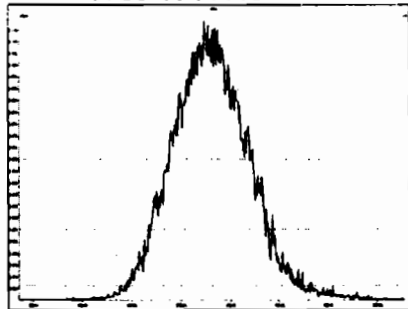
M 366.9792 R 10594



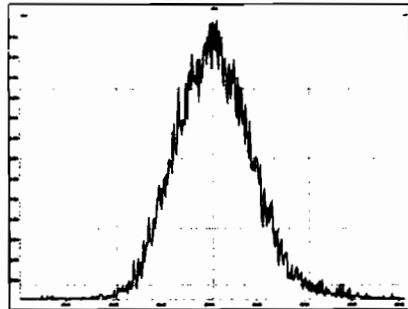
M 380.9760 R 11210



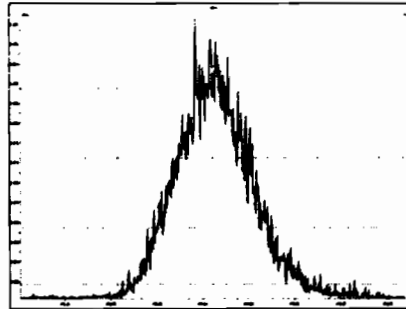
M 392.9760 R 11113



M 404.9760 R 11261



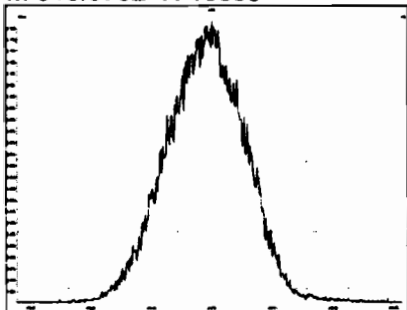
M 416.9760 R 11110



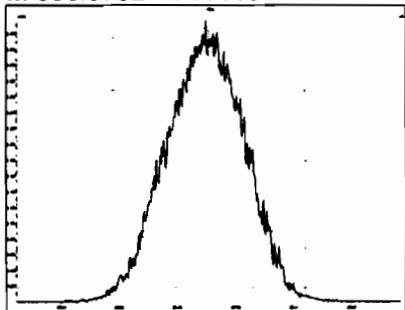
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Printed: Monday, February 03, 2020 11:53:42 Pacific Standard Time

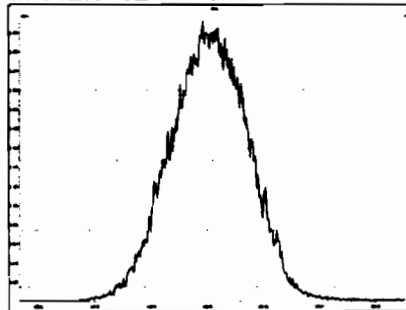
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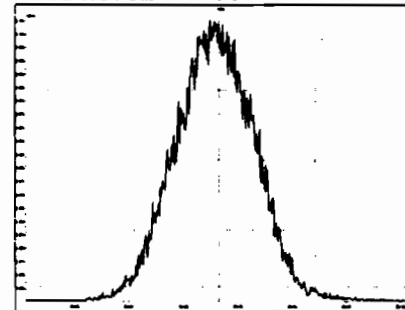
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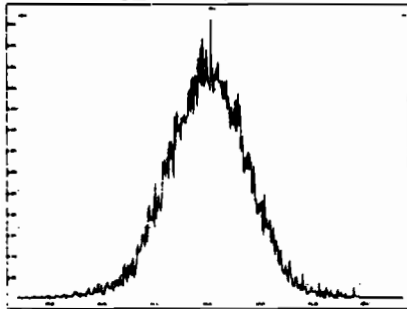
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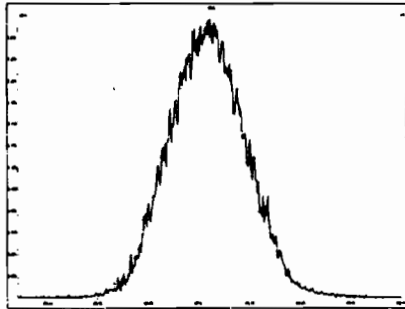
M 354.9792 R 10821



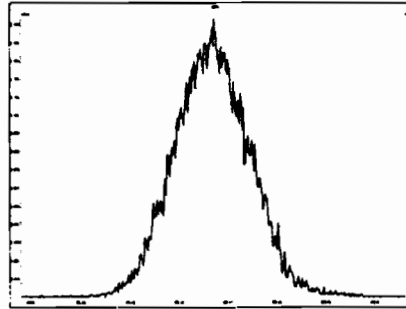
M 366.9792 R 10332



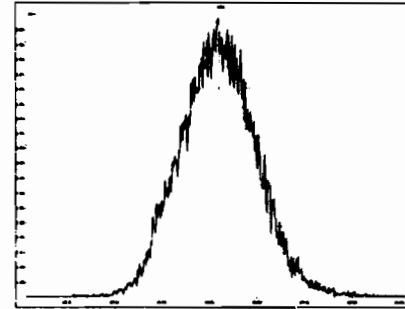
M 380.9760 R 10965



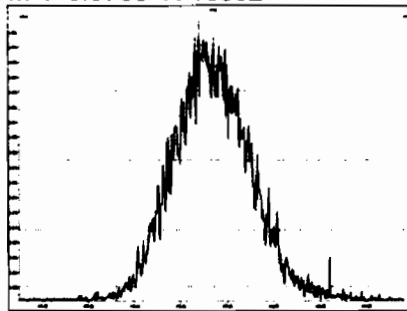
M 392.9760 R 11362



M 404.9760 R 11258



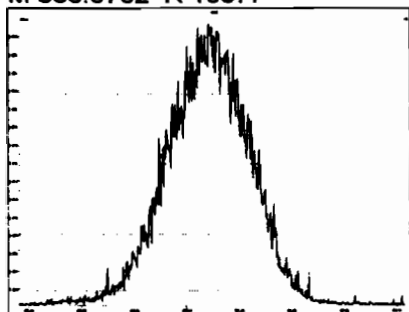
M 416.9760 R 10592



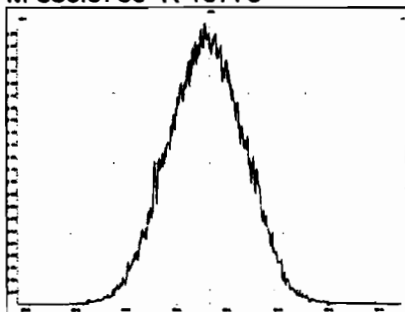
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Printed: Monday, February 03, 2020 11:55:02 Pacific Standard Time

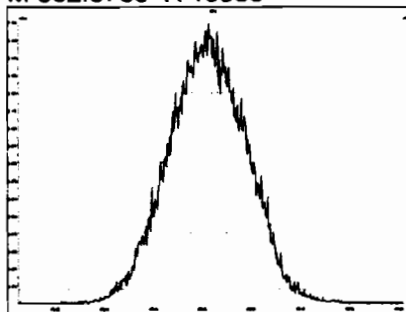
M 366.9792 R 10077



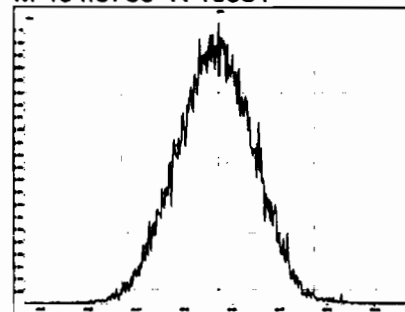
M 380.9760 R 10776



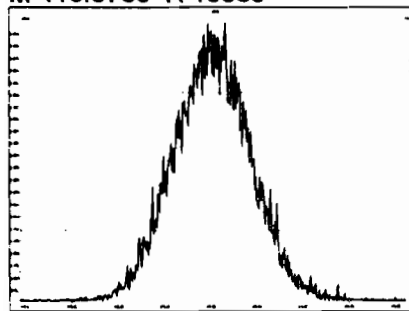
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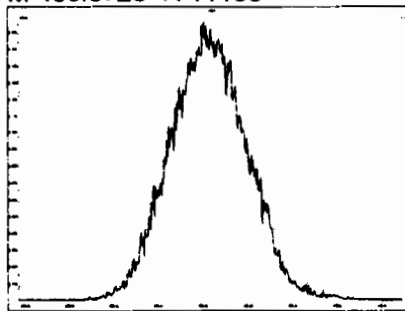
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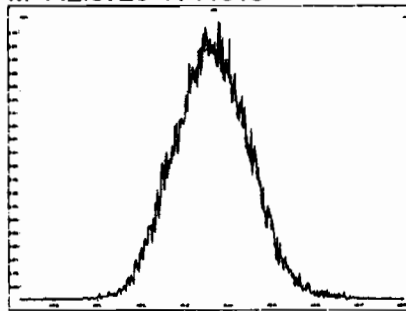
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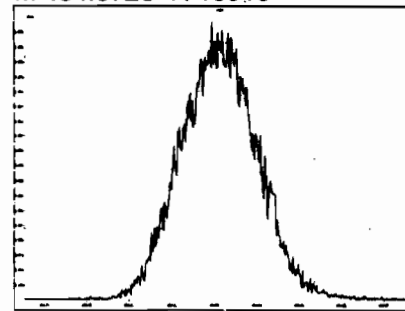
M 430.9728 R 11158



M 442.9728 R 11013



M 454.9728 R 10916



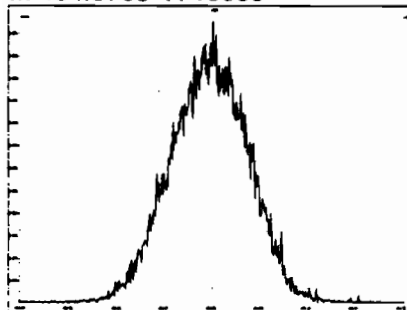
Experiment Calibration Report

MassLynx 4.1 SCN815

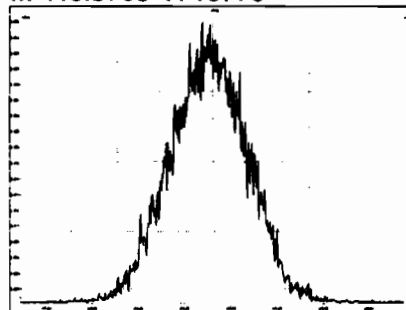
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Printed: Monday, February 03, 2020 11:55:32 Pacific Standard Time

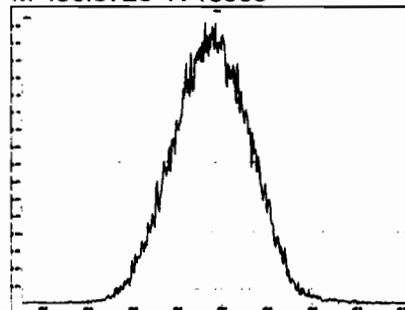
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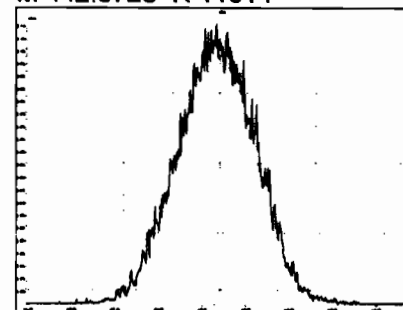
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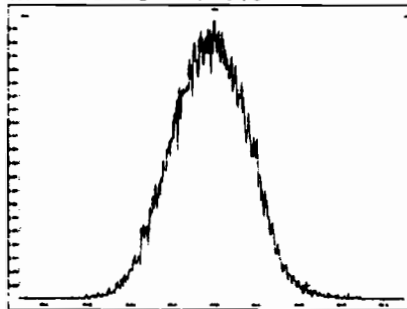
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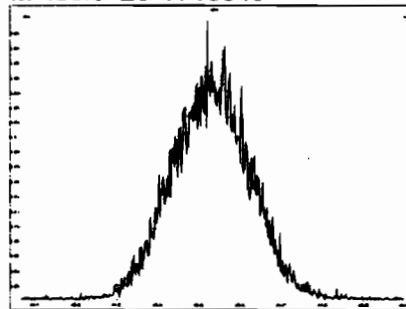
M 442.9728 R 11014



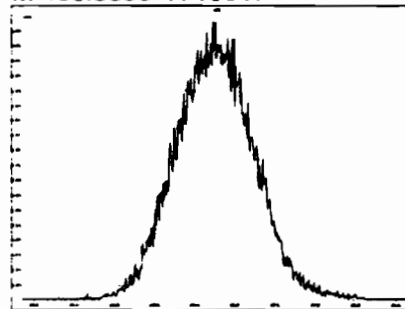
M 454.9728 R 11110



M 466.9728 R 10640



M 480.9696 R 10917



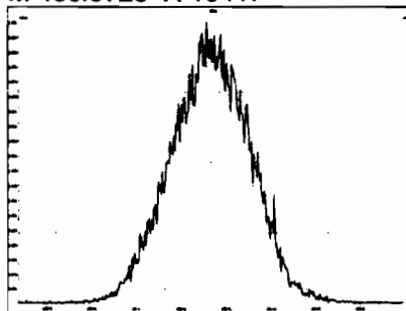
Experiment Calibration Report

MassLynx 4.1 SCN815

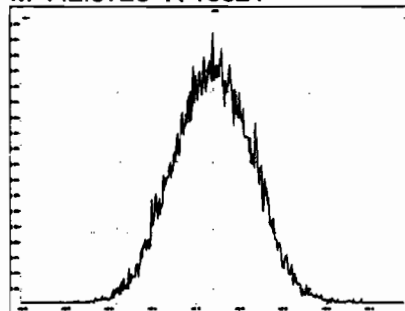
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

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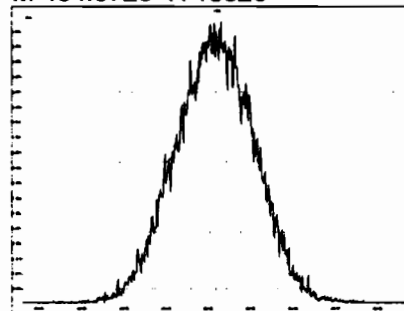
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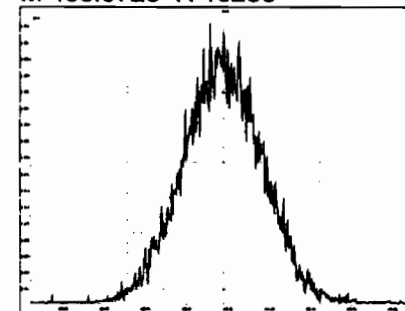
M 442.9728 R 10821



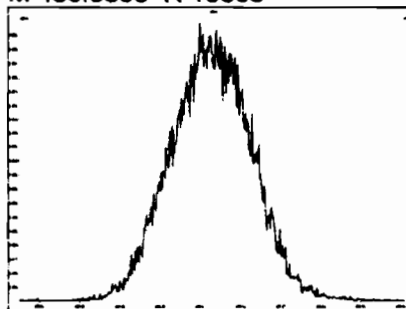
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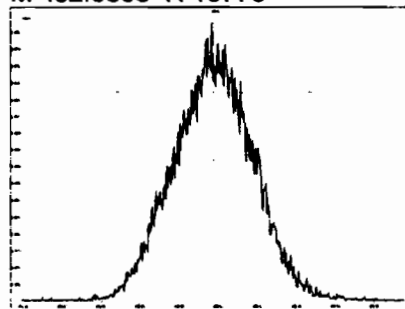
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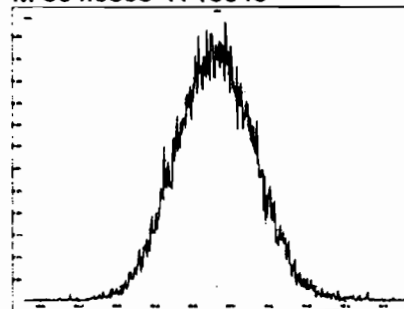
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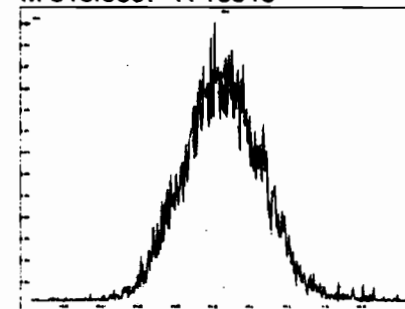
M 492.9696 R 10776



M 504.9696 R 10040



M 516.9697 R 10915



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Printed: Monday, February 03, 2020 12:55:55 Pacific Standard Time

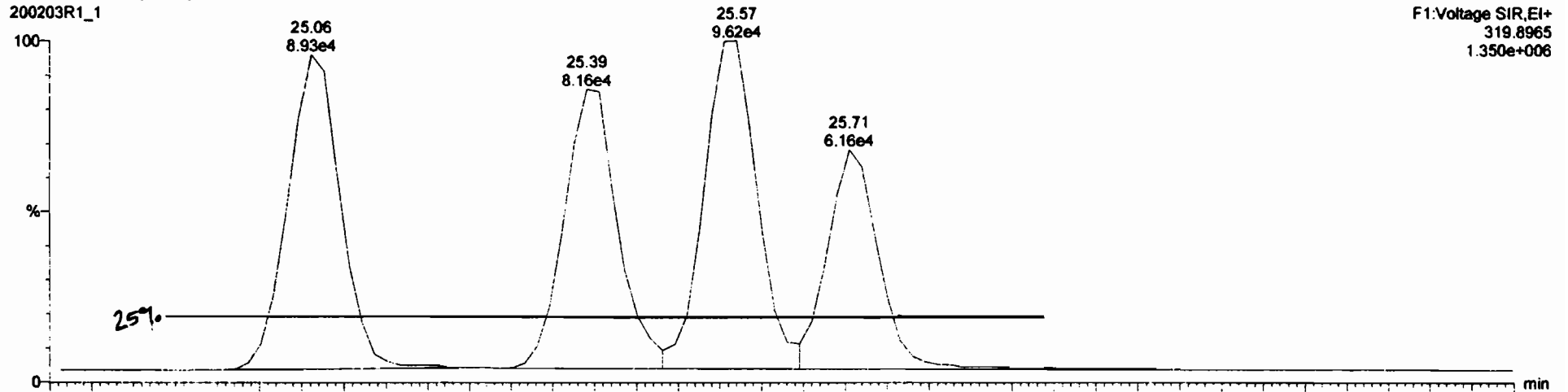
GRB 02/03/2020

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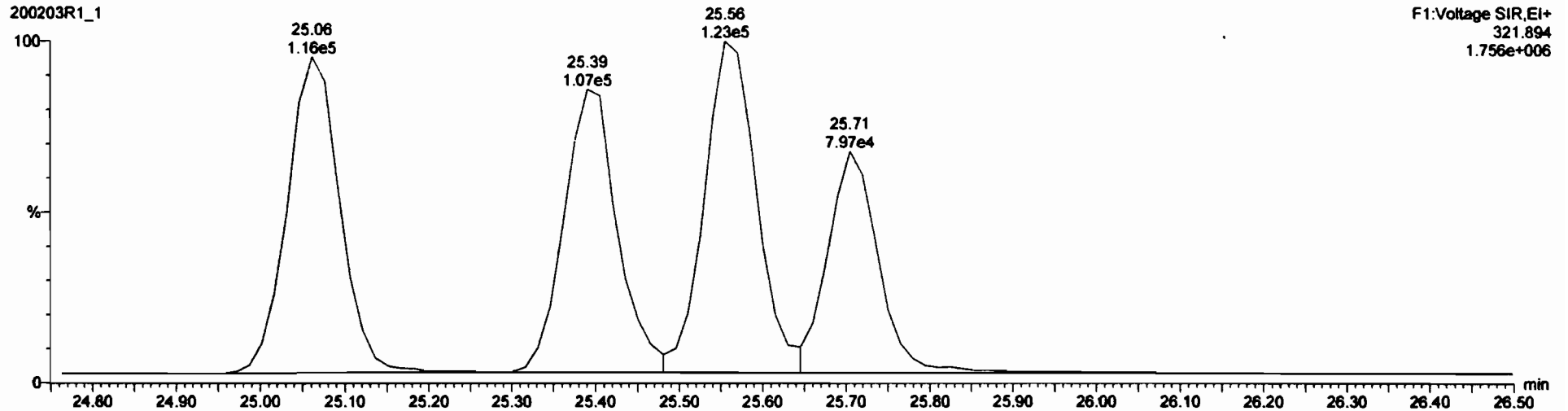
Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200203R1_1



200203R1_1



Dataset: Untitled

Last Altered: Monday, February 03, 2020 12:55:22 Pacific Standard Time

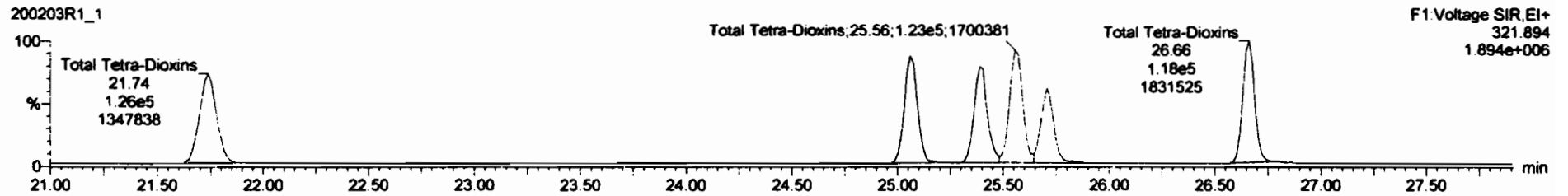
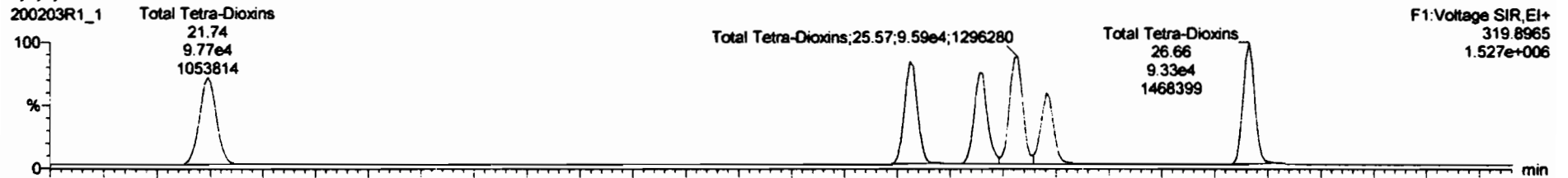
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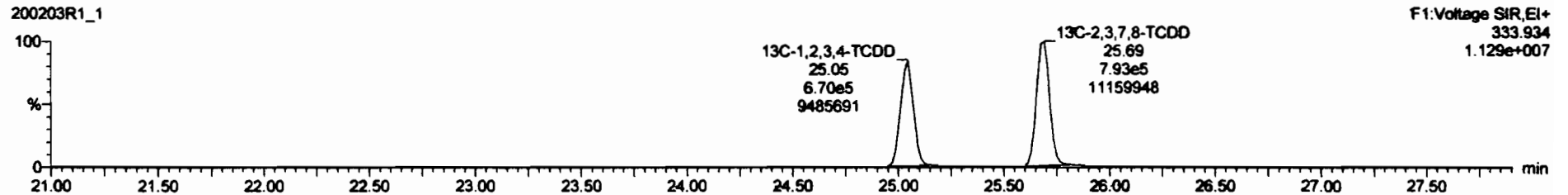
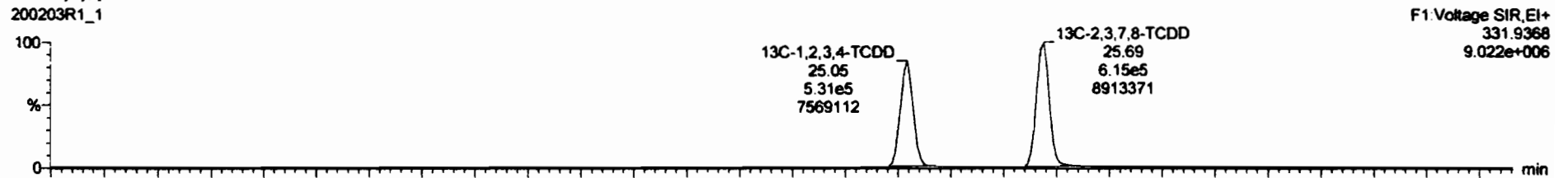
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Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



Dataset: Untitled

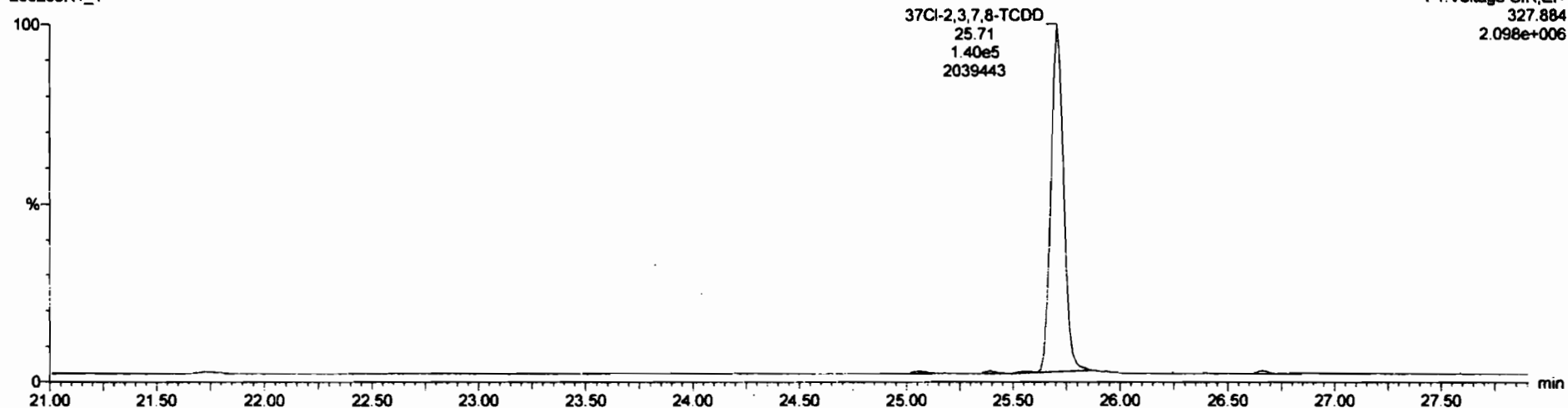
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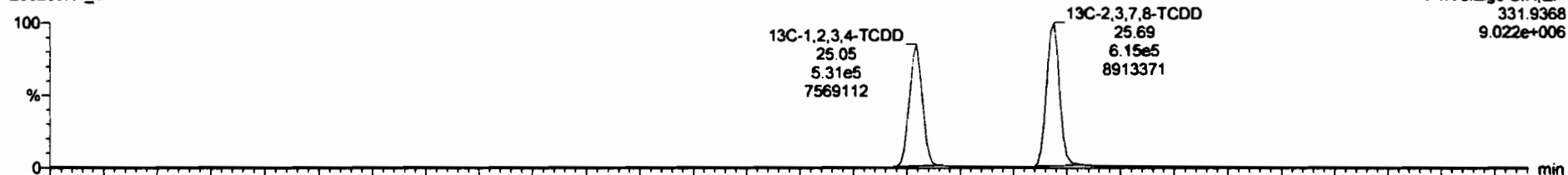
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200203R1_1

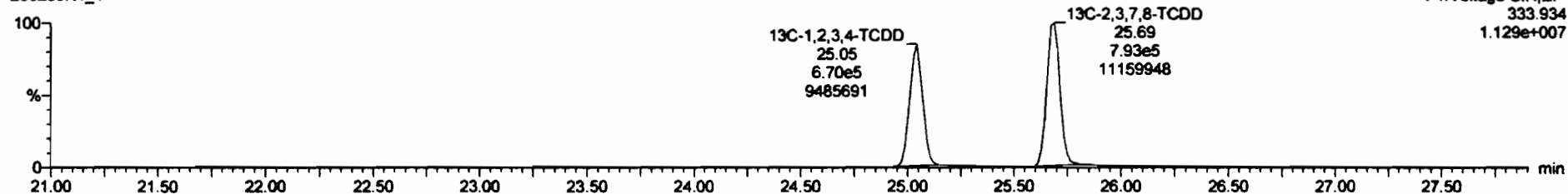


13C-1,2,3,4-TCDD

200203R1_1



200203R1_1



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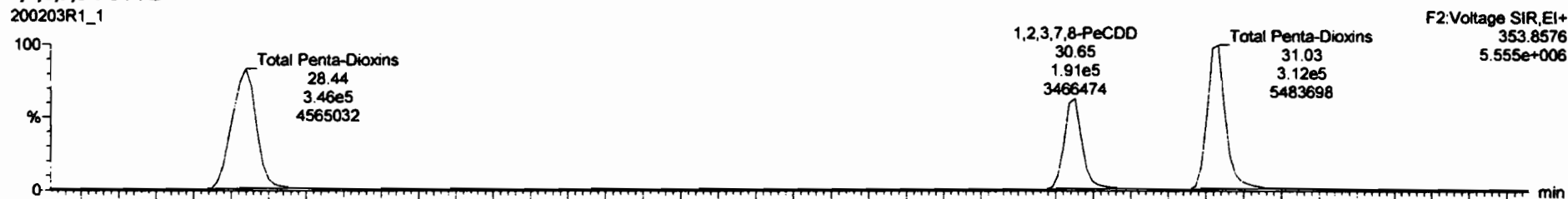
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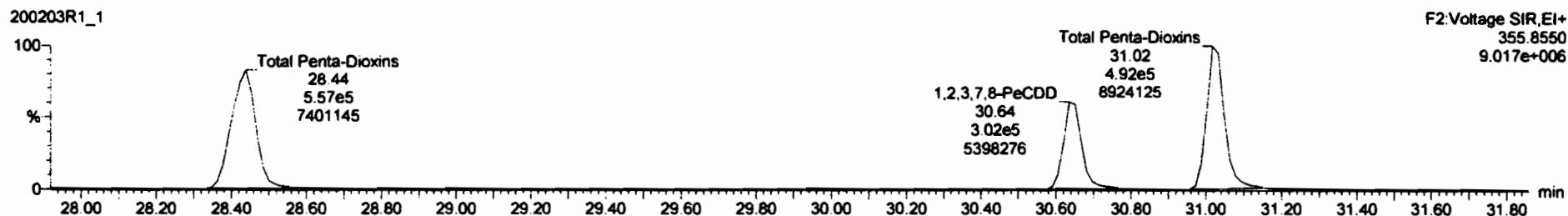
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1,2,3,7,8-PeCDD

200203R1_1



200203R1_1

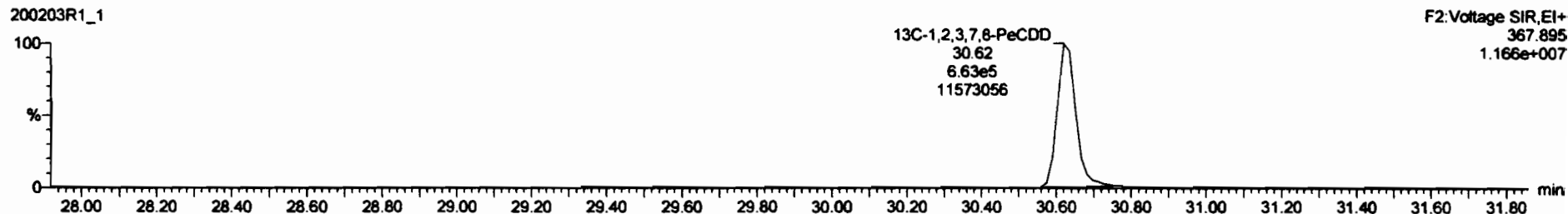


13C-1,2,3,7,8-PeCDD

200203R1_1



200203R1_1



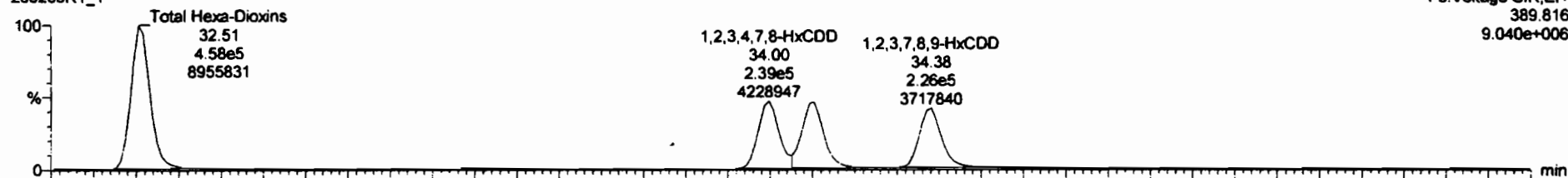
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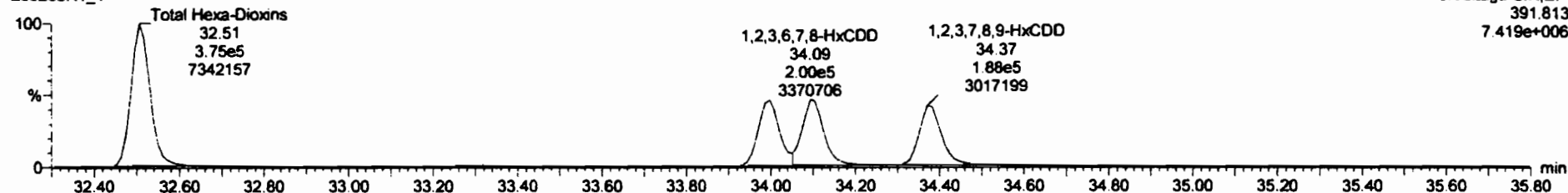
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1,2,3,4,7,8-HxCDD

200203R1_1

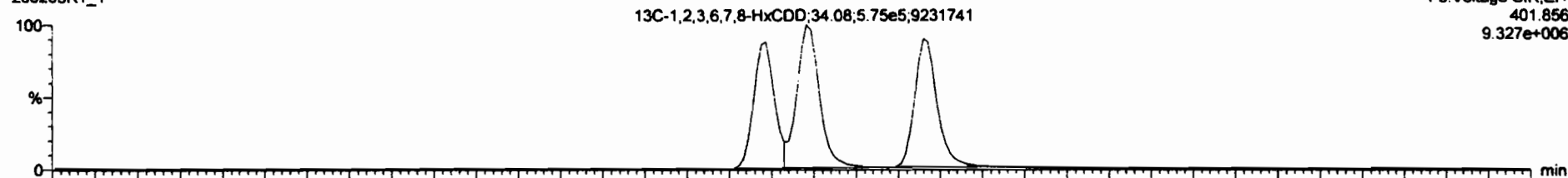


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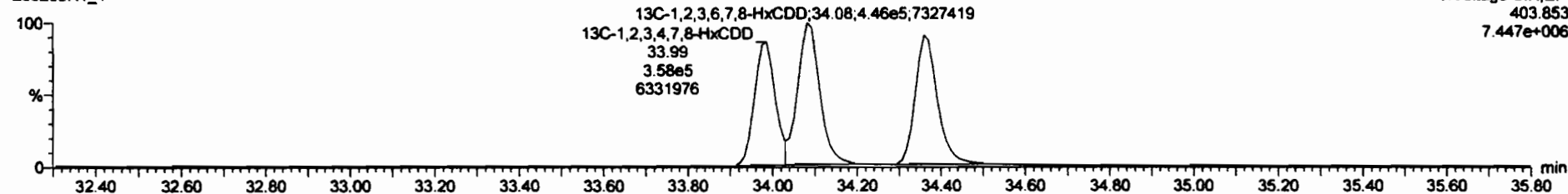


13C-1,2,3,4,7,8-HxCDD

200203R1_1



200203R1_1



Dataset: Untitled

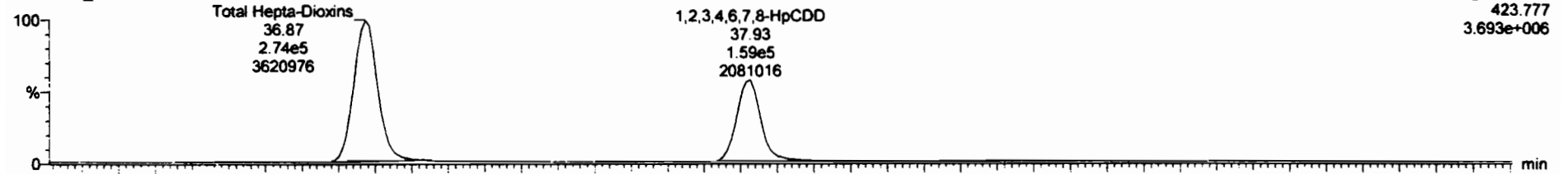
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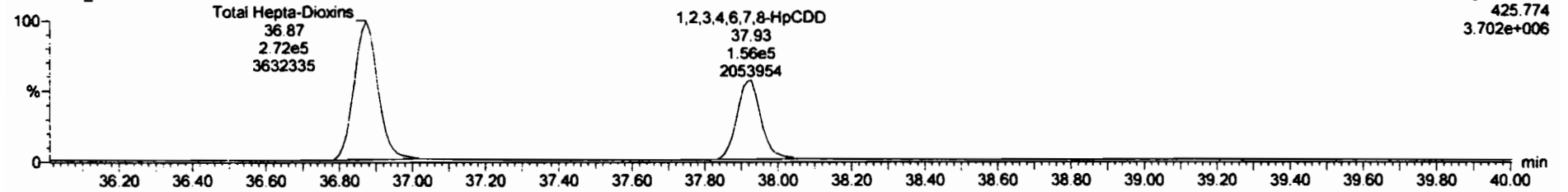
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1,2,3,4,6,7,8-HpCDD

200203R1_1

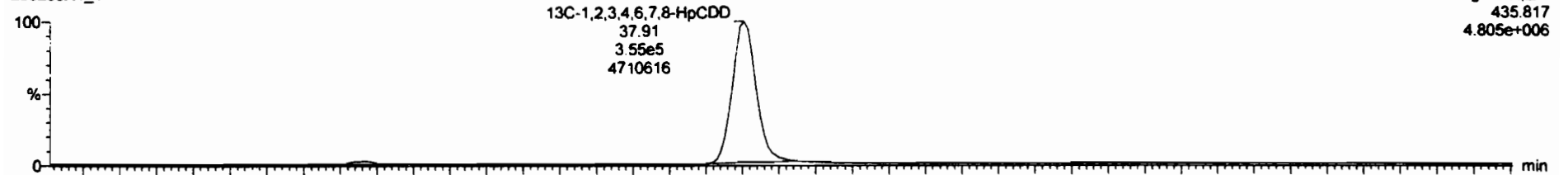


200203R1_1

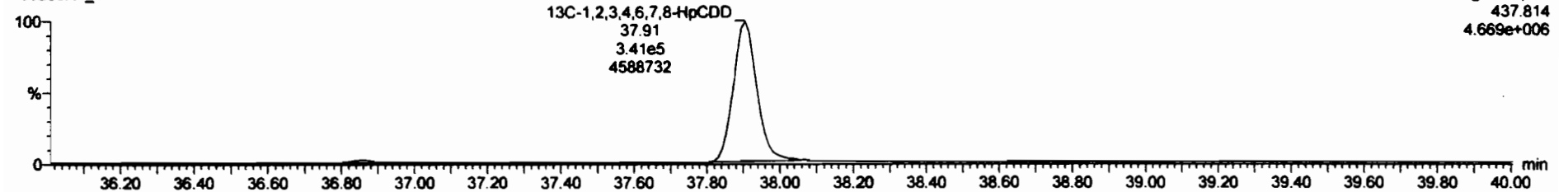


13C-1,2,3,4,6,7,8-HpCDD

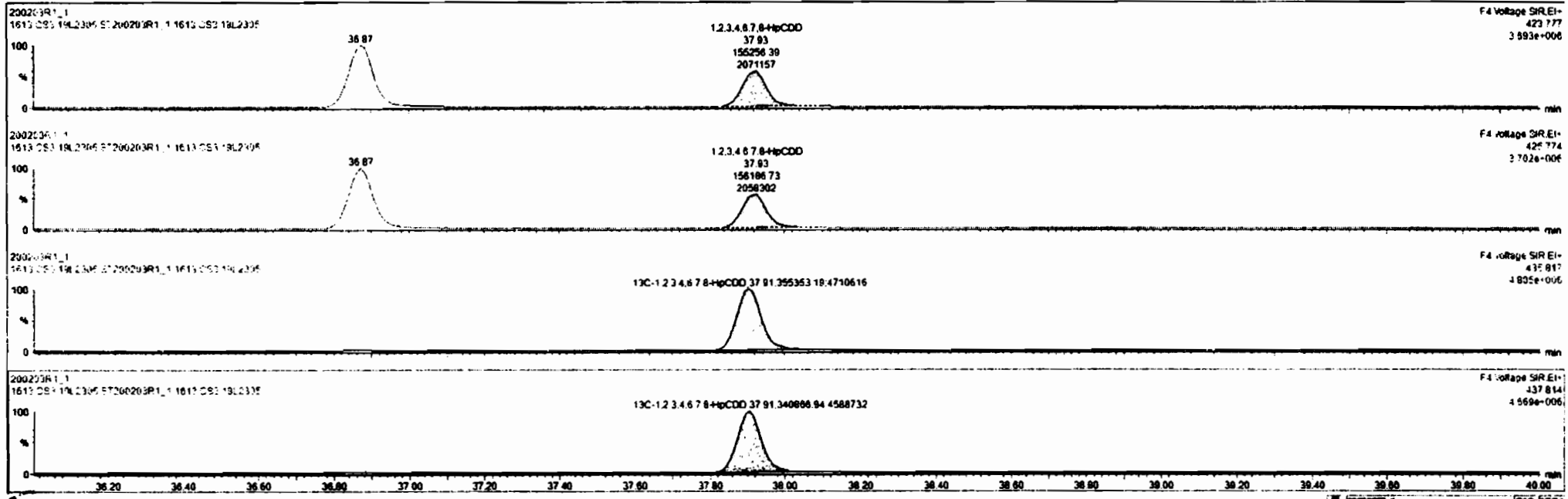
200203R1_1



200203R1_1



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1	2,3,7,8-TCDD	1.41e5	1.41e5	0.77	0.77	NO	0.9801	25.72	25.71	NO	1.001	1.001	10.1	10.1	NO
2	1,2,3,7,8-PeCDD	4.92e5	1.06e5	0.63	0.63	NO	0.9723	30.88	30.85	NO	1.001	1.001	47.0	94.0	NO
3	1,2,3,4,7,8-HxCDD	4.34e5	8.15e5	1.24	1.22	NO	1.0788	34.88	34.80	NO	1.000	1.000	48.0	96.0	NO
4	1,2,3,6,7,8-HxCDD	4.48e5	1.02e5	1.24	1.24	NO	0.9211	34.08	34.10	NO	1.000	1.001	47.7	95.4	NO
5	1,2,3,7,8,9-HxCDD	4.14e5	9.28e5	1.24	1.20	NO	0.9182	34.38	34.38	NO	1.001	1.001	48.7	97.4	NO
7	OCDD	5.08e5	1.28e5	0.88	0.88	NO	0.8748	40.92	40.83	NO	1.000	1.000	96.8	96.8	NO
8	2,3,7,8-TCDF	1.58e5	1.85e5	0.77	0.74	NO	0.8820	24.83	24.82	NO	1.001	1.001	9.93	99.3	NO
9	1,2,3,7,8-PeCDF	7.88e5	1.74e5	1.55	1.53	NO	0.9874	28.38	28.37	NO	1.001	1.001	40.6	99.1	NO
10	2,3,4,7,8-PeCDF	7.88e5	1.85e5	1.55	1.51	NO	0.8516	30.38	30.35	NO	1.001	1.001	48.8	97.7	NO
11	1,2,3,4,7,8-HxCDF	4.85e5	1.06e5	1.24	1.20	NO	0.8823	33.11	33.14	NO	1.000	1.001	50.9	102	NO
12	1,2,3,6,7,8-HxCDF	5.28e5	1.20e5	1.24	1.19	NO	0.8414	33.25	33.25	NO	1.000	1.000	52.2	104	NO
13	2,3,4,6,7,8-HxCDF	4.88e5	1.07e5	1.24	1.18	NO	0.8862	33.65	33.63	NO	1.001	1.000	51.1	102	NO
14	1,2,3,7,8,9-HxCDF	3.94e5	8.19e5	1.24	1.19	NO	0.8578	34.72	34.73	NO	1.000	1.000	50.0	100	NO
15	1,2,3,4,6,7,8-HpCDF	3.48e5	7.91e5	1.04	0.88	NO	0.8511	38.51	38.48	NO	1.001	1.001	50.5	101	NO
16	1,2,3,4,7,8,9-HpCDF	2.77e5	5.58e5	1.04	0.88	NO	0.9798	38.58	38.51	NO	1.000	1.000	51.5	103	NO
17	OCDF	6.88e5	1.48e5	0.88	0.87	NO	0.8055	41.11	41.12	NO	1.000	1.000	101	101	NO

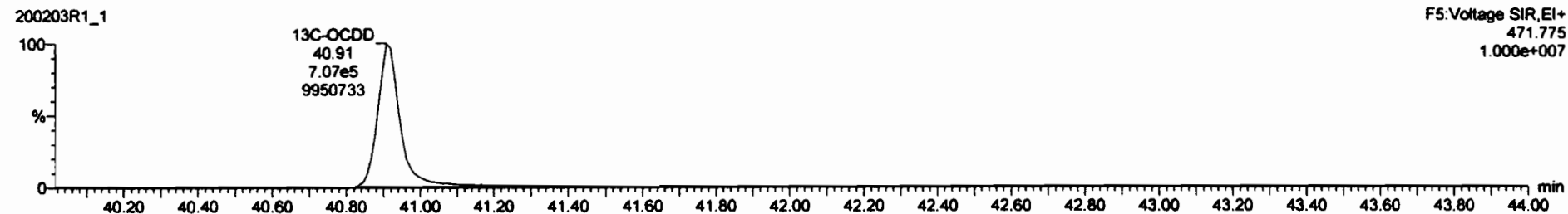
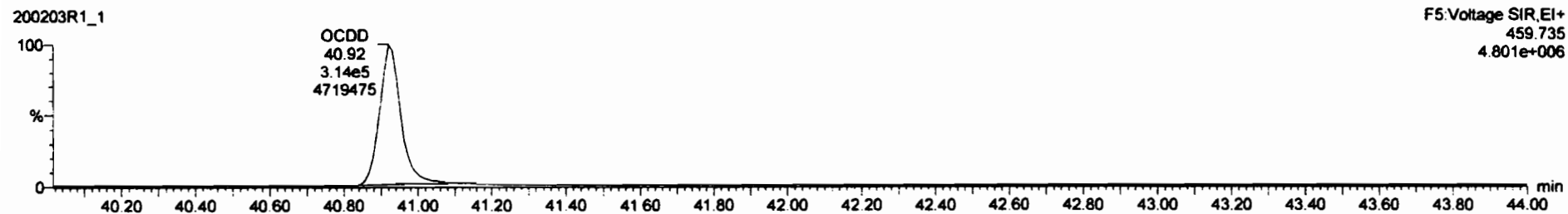


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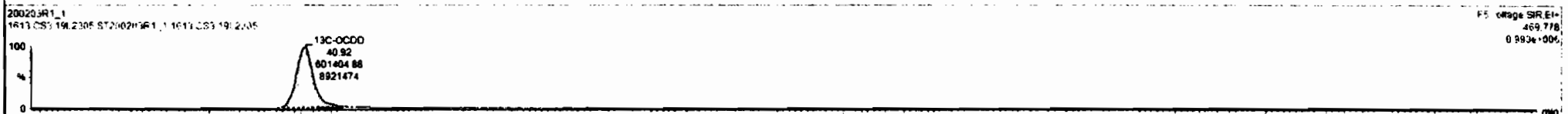
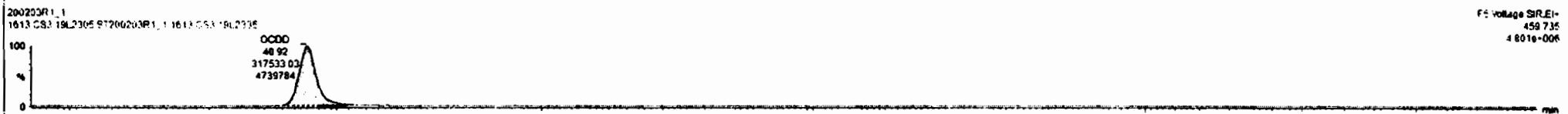
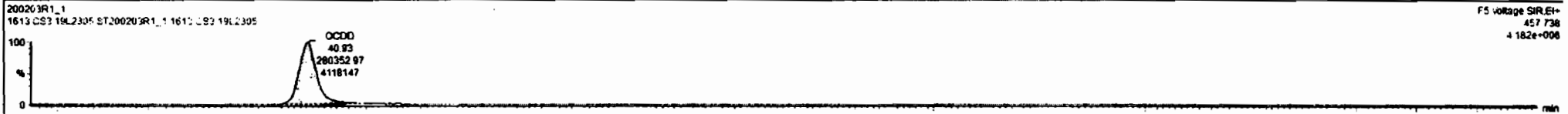
Last Altered: Monday, February 03, 2020 12:55:22 Pacific Standard Time

Printed: Monday, February 03, 2020 12:55:35 Pacific Standard Time

Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Comp	RetTime	PeakArea	Area	Height	Width	Height	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area
1	23.78-TCDD	1.41e5	1.41e5	0.77	0.77	NO	0.8881	25.72	25.71	NO	1.001	1.001	10.1	101	NO			
2	1,2,3,4,7,8-PeCDD	4.93e5	1.08e5	0.83	0.83	NO	0.9723	30.66	30.65	NO	1.001	1.001	47.0	94.0	NO			
3	1,2,3,4,7,8-HxCDD	4.34e5	8.15e5	1.24	1.22	NO	1.0708	34.00	34.00	NO	1.000	1.000	49.8	90.8	NO			
4	1,2,3,6,7,8-HxCDD	4.48e5	1.02e5	1.24	1.24	NO	0.9211	34.08	34.10	NO	1.000	1.001	47.7	95.4	NO			
5	1,2,3,7,8-HxCDD	4.14e5	9.26e5	1.24	1.20	NO	0.9182	34.38	34.38	NO	1.001	1.001	48.7	97.4	NO			
6	1,2,3,4,6,7,8-HpCDD	3.11e5	6.98e5	1.04	0.98	NO	0.9231	37.82	37.83	NO	1.000	1.001	48.5	95.9	NO			
7	2,3,7,8-TCDF	1.58e5	1.95e5	0.77	0.74	NO	0.8820	24.83	24.82	NO	1.001	1.001	9.93	90.3	NO			
8	1,2,3,7,8-PeCDF	7.88e5	1.71e5	1.55	1.53	NO	0.9874	29.36	29.37	NO	1.001	1.001	49.6	99.1	NO			
9	2,3,4,7,8-PeCDF	7.88e5	1.65e5	1.55	1.51	NO	0.8616	30.36	30.36	NO	1.001	1.001	48.6	97.7	NO			
10	1,2,3,4,7,8-HxCDF	4.85e5	1.88e5	1.24	1.20	NO	0.8823	33.11	33.14	NO	1.000	1.001	50.9	102	NO			
11	1,2,3,6,7,8-HxCDF	5.28e5	1.20e5	1.24	1.18	NO	0.8414	33.25	33.25	NO	1.000	1.000	52.2	104	NO			
12	2,3,4,6,7,8-HxCDF	4.88e5	1.07e5	1.24	1.18	NO	0.8842	33.85	33.85	NO	1.001	1.000	51.1	102	NO			
13	1,2,3,7,8-HxCDF	3.94e5	9.15e5	1.24	1.19	NO	0.8578	34.72	34.72	NO	1.000	1.000	50.0	100	NO			
14	1,2,3,4,6,7,8-HpCDF	3.40e5	7.81e5	1.04	0.95	NO	0.8511	38.51	38.49	NO	1.001	1.001	50.5	101	NO			
15	1,2,3,4,7,8,9-HpCDF	2.77e5	5.50e5	1.04	0.98	NO	0.9798	38.50	38.51	NO	1.000	1.000	51.5	103	NO			
16	OCDF	6.08e5	1.48e5	0.88	0.87	NO	0.8882	41.11	41.12	NO	1.000	1.000	101	101	NO			

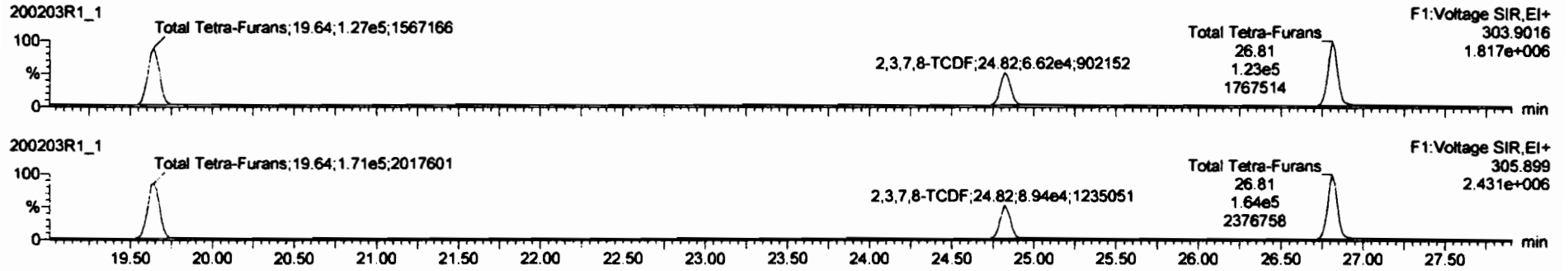


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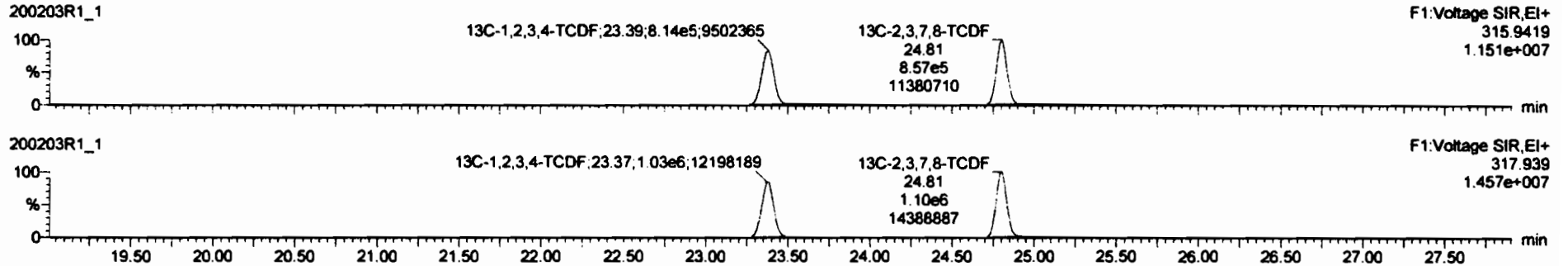
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Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

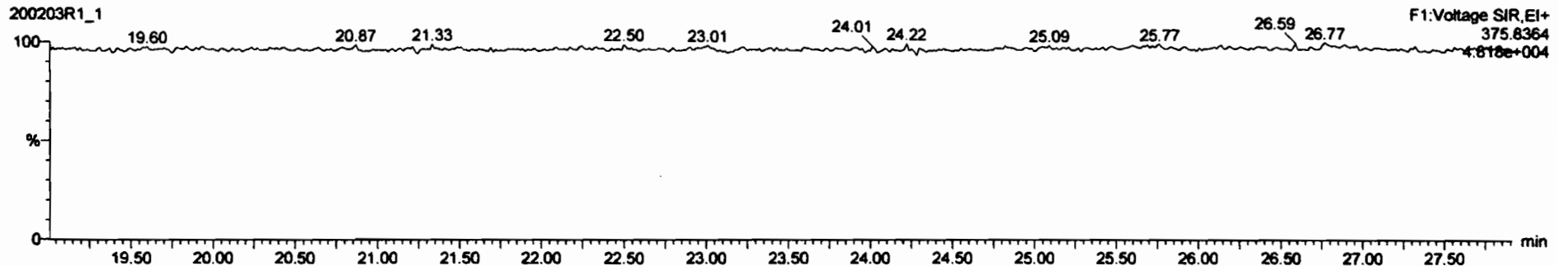
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

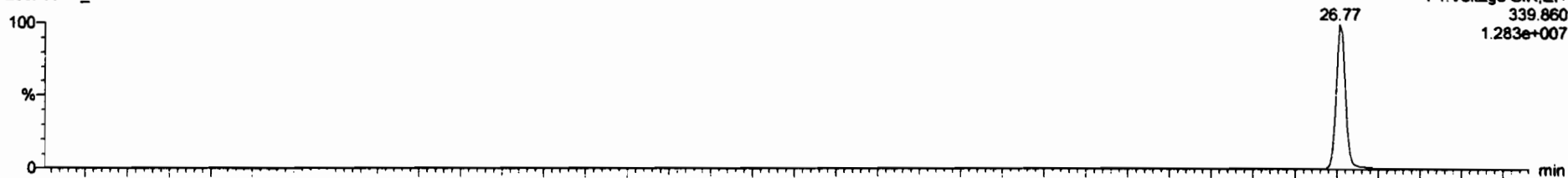
Last Altered: Monday, February 03, 2020 12:55:22 Pacific Standard Time

Printed: Monday, February 03, 2020 12:55:35 Pacific Standard Time

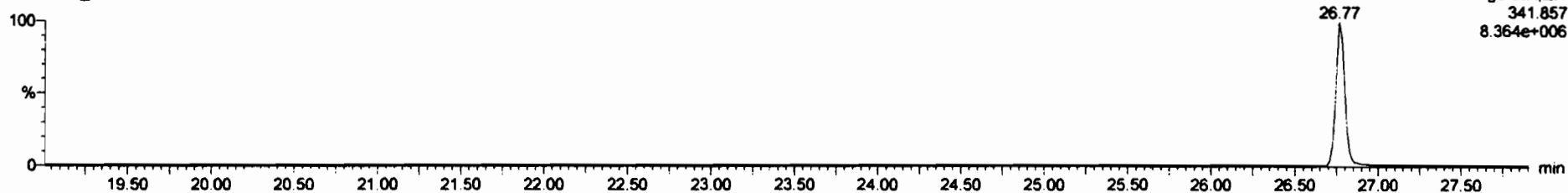
Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200203R1_1

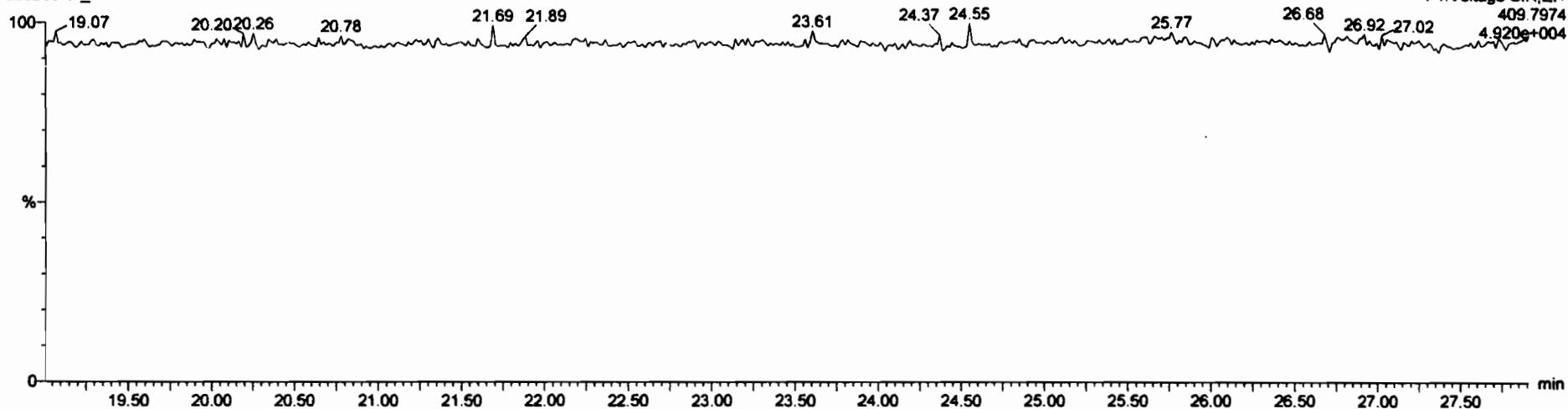


200203R1_1



DPE6

200203R1_1



Dataset: Untitled

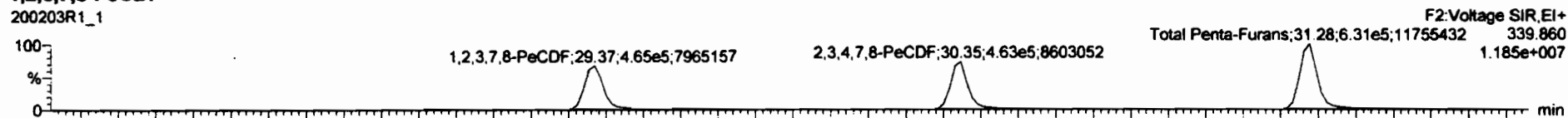
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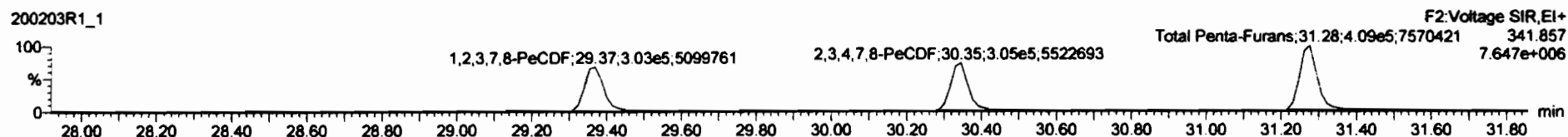
Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDF

200203R1_1

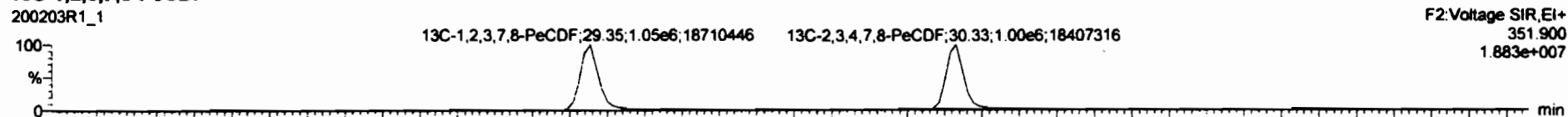


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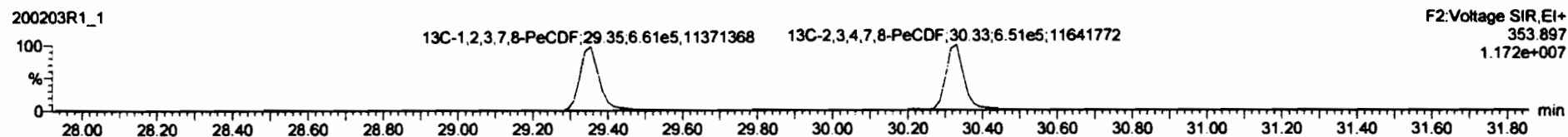


13C-1,2,3,7,8-PeCDF

200203R1_1

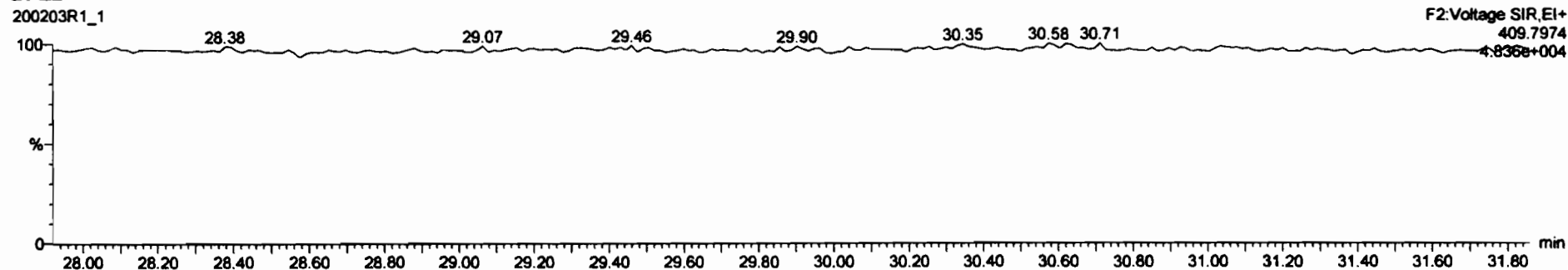


200203R1_1



DPE2

200203R1_1



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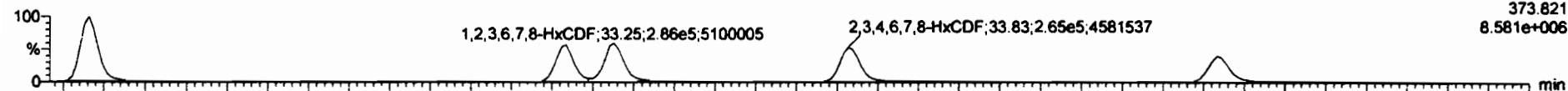
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Printed: Monday, February 03, 2020 12:55:35 Pacific Standard Time

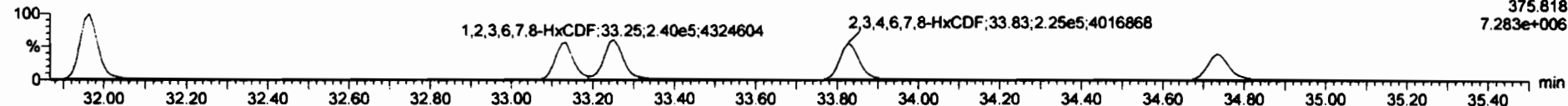
Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200203R1_1

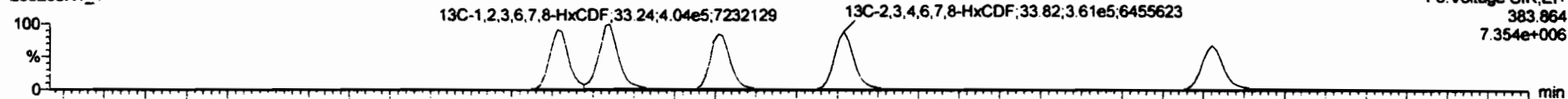


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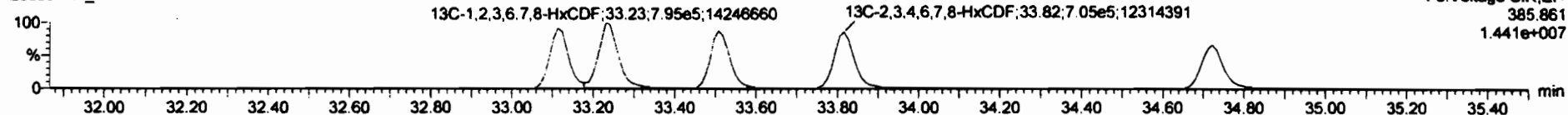


13C-1,2,3,4,7,8-HxCDF

200203R1_1

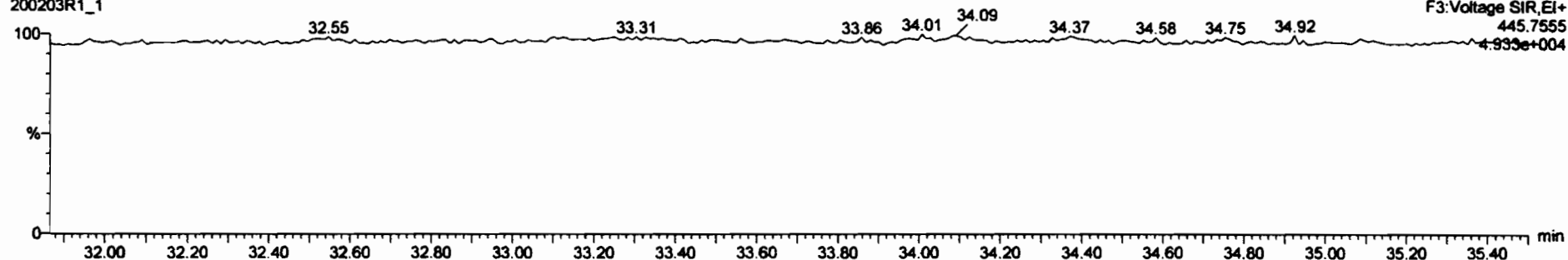


200203R1_1



DPE3

200203R1_1

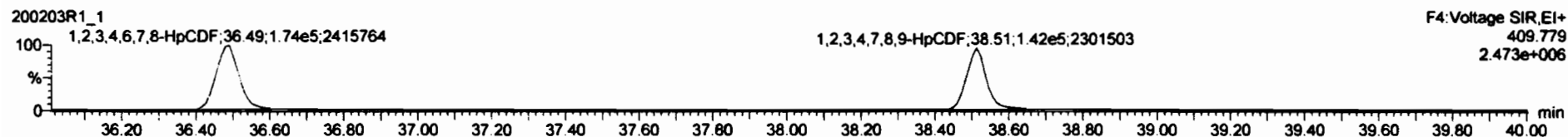
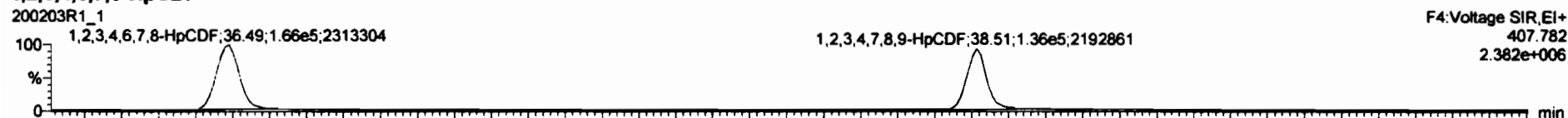


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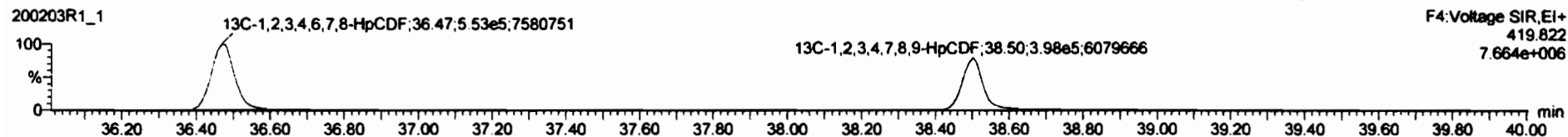
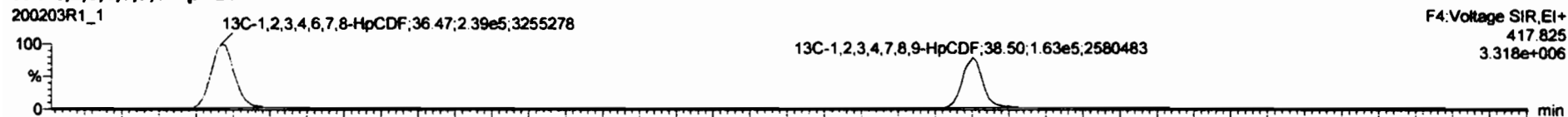
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Printed: Monday, February 03, 2020 12:55:35 Pacific Standard Time

Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

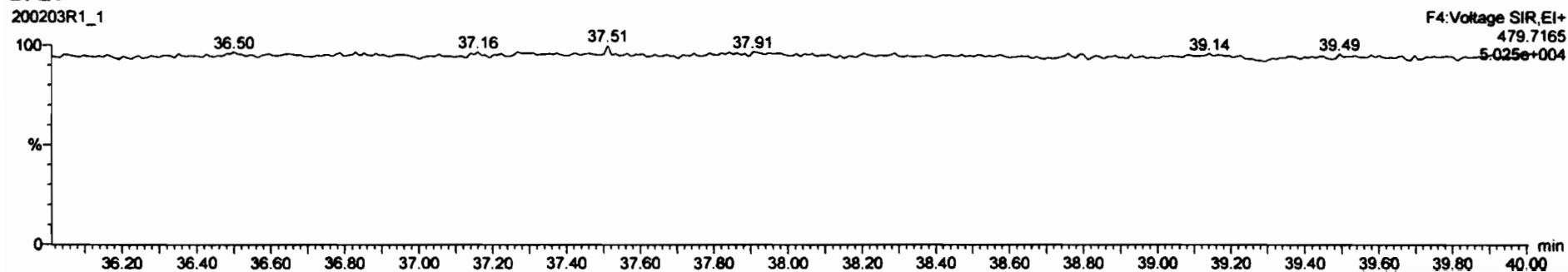
1,2,3,4,6,7,8-HpCDF



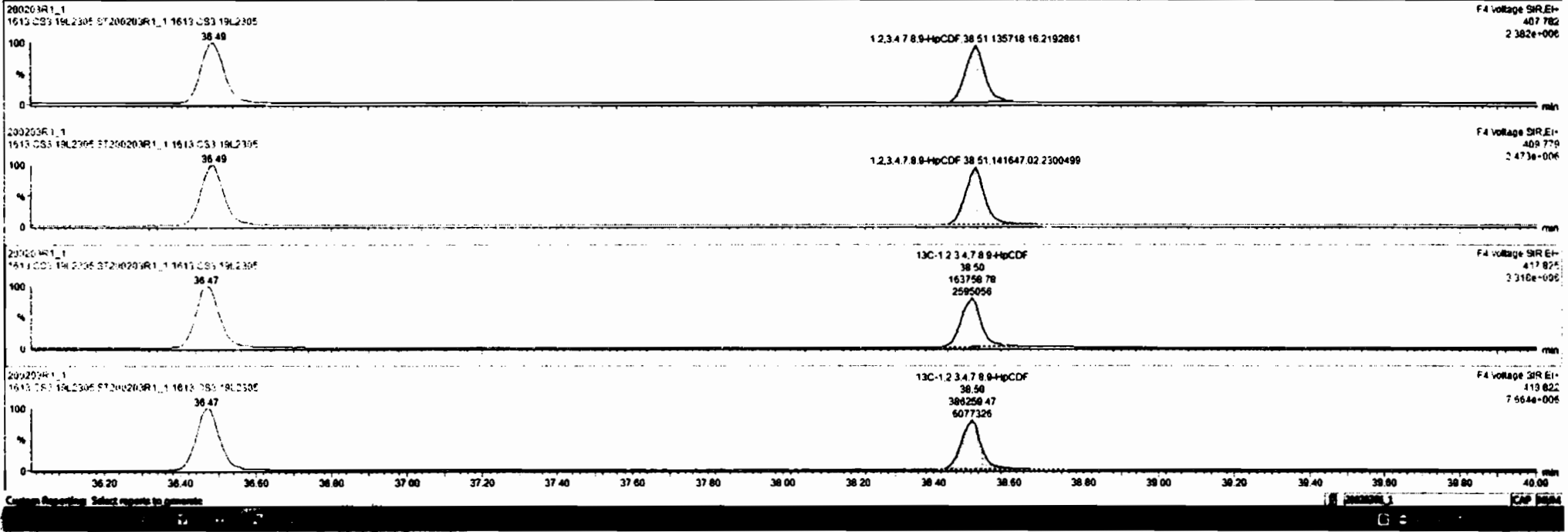
13C-1,2,3,4,6,7,8-HpCDF



DPE4



#	Name	Area	Height	Peak No.	Ret	Off	FWHM	Area%	Height%	Off%	FWHM%	Area	Height	FWHM	Area%
1	2,3,7,8-TCDD	1.41e5	1.41e5	0.77	0.77	NO	0.9881	25.72	25.71	NO	1.001	1.001	19.1	101	NO
2	1,2,3,7,8-PeCDD	4.93e5	1.05e6	0.83	0.83	NO	0.9723	30.68	30.65	NO	1.001	1.001	47.0	94.0	NO
3	1,2,3,4,7,8-HxCDD	4.34e5	8.15e5	1.24	1.22	NO	1.0798	34.00	34.00	NO	1.000	1.000	48.8	96.8	NO
4	1,2,3,6,7,8-HxCDD	4.48e5	1.02e6	1.24	1.24	NO	0.9211	34.08	34.10	NO	1.000	1.001	47.7	95.4	NO
5	1,2,3,7,8,9-HxCDD	4.14e5	9.26e5	1.24	1.20	NO	0.9182	34.38	34.36	NO	1.001	1.001	48.7	97.4	NO
6	1,2,3,4,6,7,8-HpCDD	3.11e5	6.98e5	1.04	0.99	NO	0.9231	37.82	37.93	NO	1.000	1.001	48.5	96.9	NO
7	OCDD	5.99e5	1.26e6	0.89	0.88	NO	0.9746	40.92	40.93	NO	1.000	1.000	95.8	95.8	NO
8	2,3,7,8-TCDF	1.59e5	1.95e6	0.77	0.74	NO	0.9620	24.83	24.82	NO	1.001	1.001	9.93	99.3	NO
9	1,2,3,7,8-PeCDF	7.89e5	1.71e6	1.55	1.53	NO	0.9874	29.38	29.37	NO	1.001	1.001	49.6	99.1	NO
10	2,3,4,7,8-PeCDF	7.89e5	1.65e6	1.56	1.51	NO	0.9516	30.36	30.35	NO	1.001	1.001	48.8	97.7	NO
11	1,2,3,4,7,8-HxCDF	4.85e5	1.09e6	1.24	1.20	NO	0.9823	33.11	33.14	NO	1.000	1.001	50.9	102	NO
12	1,2,3,6,7,8-HxCDF	5.26e5	1.20e6	1.24	1.18	NO	0.8414	33.25	33.25	NO	1.000	1.000	52.2	104	NO
13	2,3,4,6,7,8-HxCDF	4.88e5	1.07e6	1.24	1.18	NO	0.8982	33.85	33.83	NO	1.001	1.000	51.1	102	NO
14	1,2,3,7,8,9-HxCDF	3.94e5	9.15e5	1.24	1.19	NO	0.8578	34.72	34.73	NO	1.000	1.000	50.0	100	NO
15	1,2,3,4,6,7,8-HpCDF	3.40e5	7.91e5	1.04	0.98	NO	0.8511	36.51	36.48	NO	1.001	1.001	58.5	101	NO
17	OCDF	6.89e5	1.49e6	0.89	0.87	NO	0.8955	41.11	41.12	NO	1.000	1.000	101	101	NO

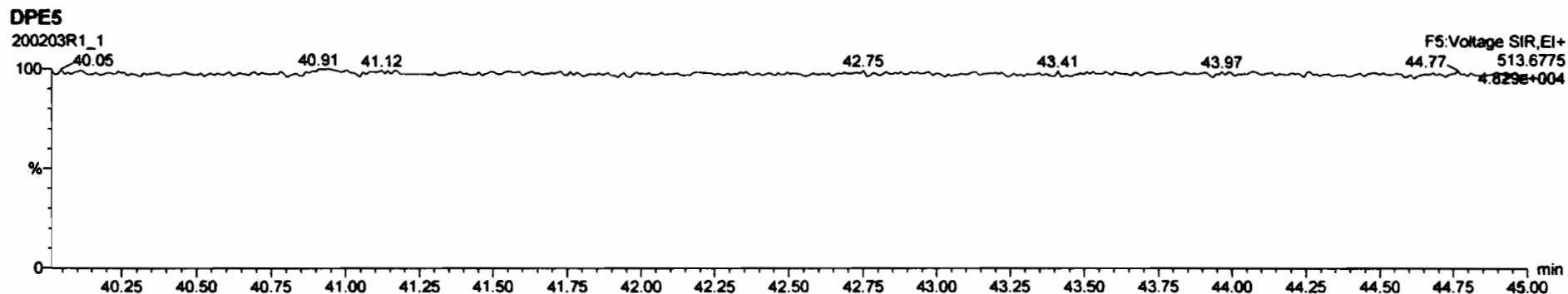
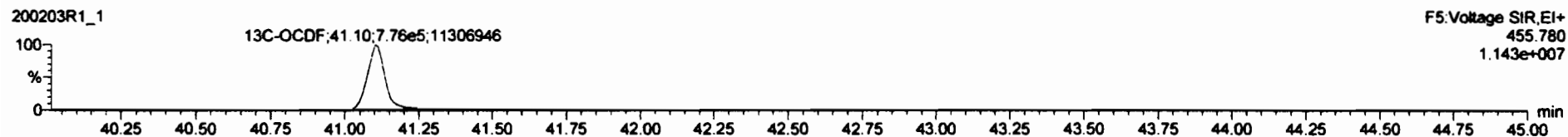
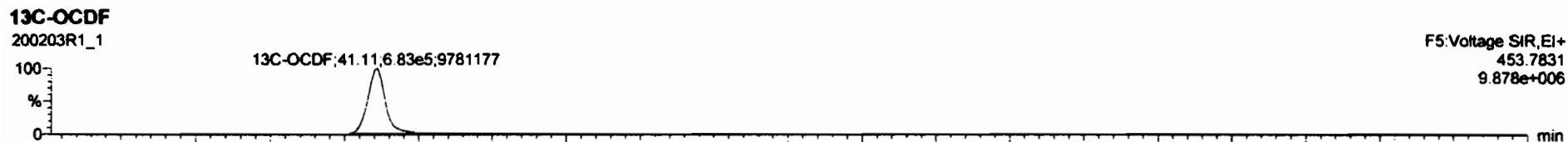
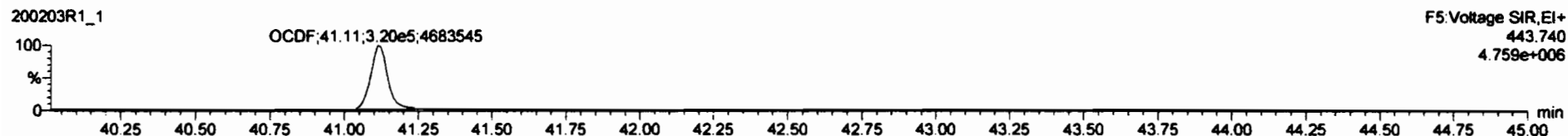
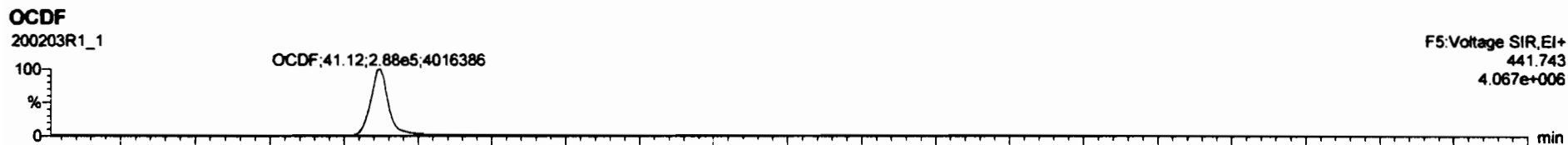


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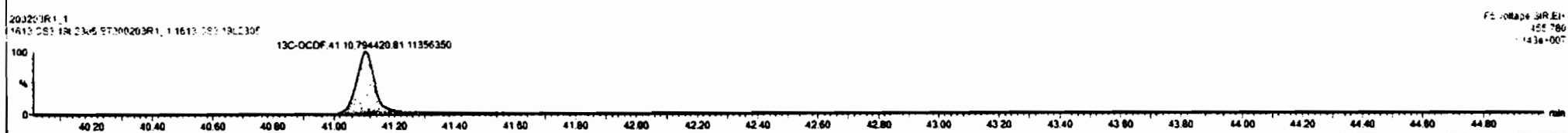
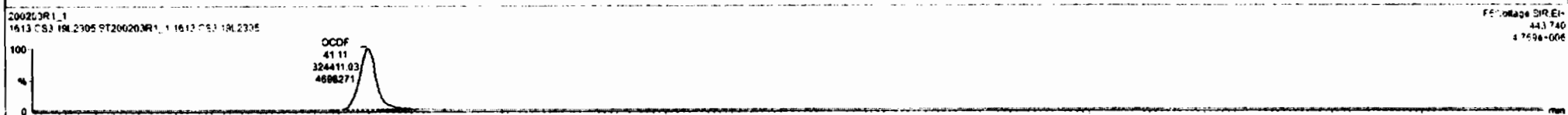
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Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



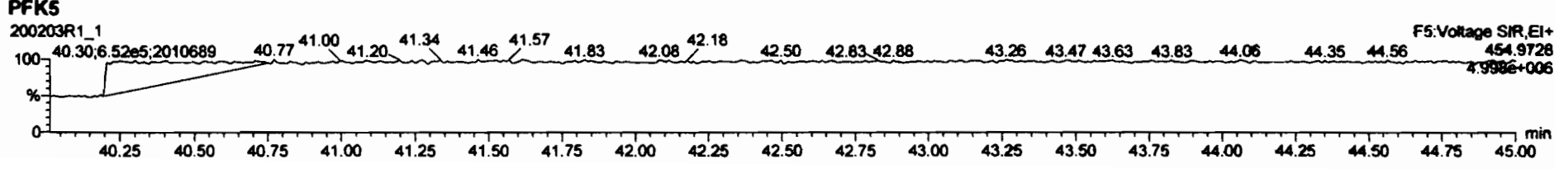
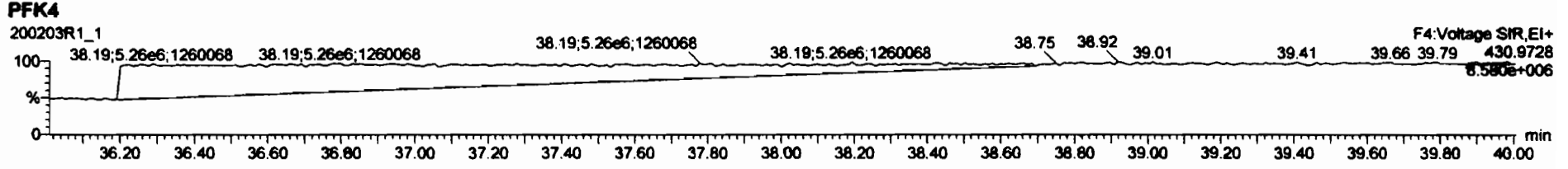
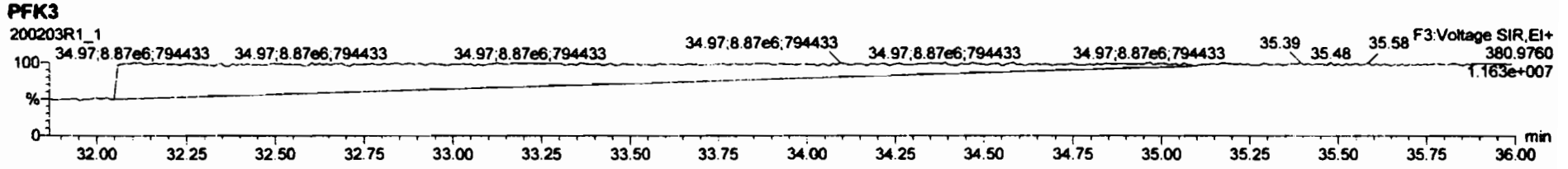
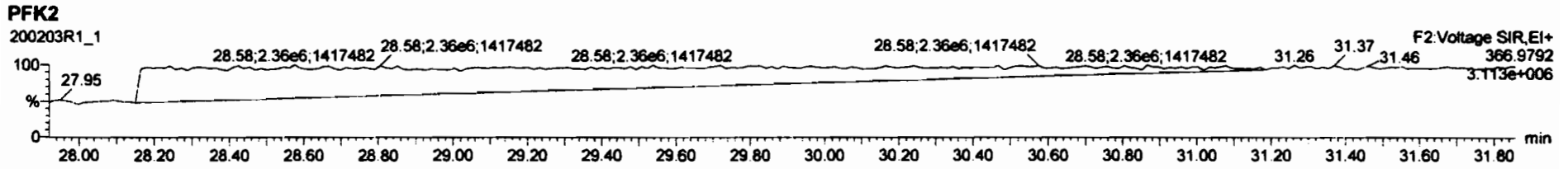
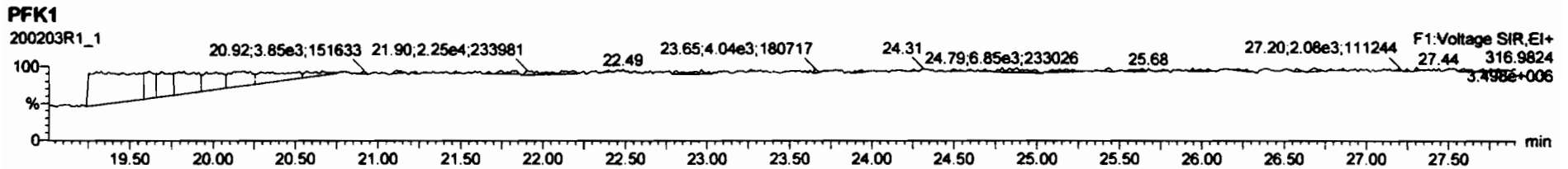
Peak	Retention	Height	Area	Area%	Height%	Label	Response	Height	Area	Area%	Height%	Label	Response	Height	Area	Area%	Height%	Label
1	2,3,7,8-TCDD	1.41e5	1.41e5	0.77	0.77	NO	0.9891	25.72	25.71	NO	1.001	1.001	18.1	18.1	NO			
2	1,2,3,7,8-PeCDD	4.87e5	1.08e5	0.63	0.63	NO	0.9723	30.88	30.85	NO	1.001	1.001	47.0	94.0	NO			
3	1,2,3,4,7,8-HxCDD	4.34e5	8.15e5	1.24	1.22	NO	1.0708	34.08	34.60	NO	1.000	1.000	49.8	99.6	NO			
4	1,2,3,4,7,8-HxCDD	4.48e5	1.02e5	1.24	1.24	NO	0.9211	34.08	34.10	NO	1.000	1.001	47.7	95.4	NO			
5	1,2,3,7,8-HxCDD	4.14e5	9.26e5	1.24	1.20	NO	0.9182	34.39	34.38	NO	1.001	1.001	48.7	97.4	NO			
6	1,2,3,4,6,7,8-HxCDD	3.11e5	6.98e5	1.04	0.99	NO	0.9231	37.82	37.83	NO	1.000	1.001	46.5	98.9	NO			
7	OCDF	5.98e5	1.28e5	0.89	0.88	NO	0.9748	40.92	40.93	NO	1.000	1.000	95.8	95.8	NO			
8	2,3,7,8-TCDF	1.58e5	1.95e5	0.77	0.74	NO	0.9020	24.83	24.82	NO	1.001	1.001	9.93	99.3	NO			
9	1,2,3,7,8-PeCDF	7.88e5	1.71e5	1.55	1.53	NO	0.9074	28.38	28.37	NO	1.001	1.001	48.6	99.1	NO			
10	2,3,4,7,8-PeCDF	7.88e5	1.85e5	1.55	1.51	NO	0.9518	30.38	30.35	NO	1.001	1.001	48.8	97.7	NO			
11	1,2,3,4,7,8-HxCDF	4.85e5	1.89e5	1.24	1.20	NO	0.9823	33.11	33.14	NO	1.000	1.001	59.9	102	NO			
12	1,2,3,4,7,8-HxCDF	5.28e5	1.20e5	1.24	1.19	NO	0.8414	33.25	33.25	NO	1.000	1.000	52.2	104	NO			
13	2,3,4,6,7,8-HxCDF	4.89e5	1.07e5	1.24	1.18	NO	0.8882	33.85	33.83	NO	1.001	1.000	51.1	102	NO			
14	1,2,3,7,8-HxCDF	3.94e5	9.19e5	1.24	1.19	NO	0.8578	34.72	34.73	NO	1.000	1.000	50.0	100	NO			
15	1,2,3,4,6,7,8-HxCDF	3.40e5	7.91e5	1.04	0.96	NO	0.8511	36.51	36.48	NO	1.001	1.001	50.5	101	NO			
16	1,2,3,4,7,8,9-HxCDF	2.77e5	5.50e5	1.04	0.98	NO	0.9790	38.58	38.51	NO	1.000	1.000	51.5	103	NO			



Dataset: Untitled

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Printed: Monday, February 03, 2020 12:55:35 Pacific Standard Time

Name: 200203R1_1, Date: 03-Feb-2020, Time: 11:58:10, ID: ST200203R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

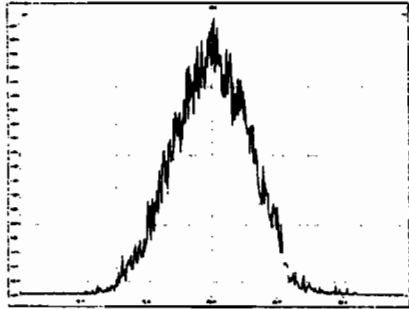


Resolution Check Report

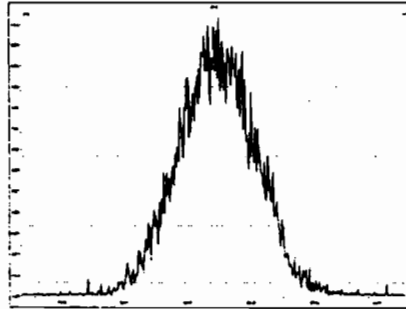
MassLynx 4.1 SCN815

Printed: Monday, February 03, 2020 23:56:34 Pacific Standard Time

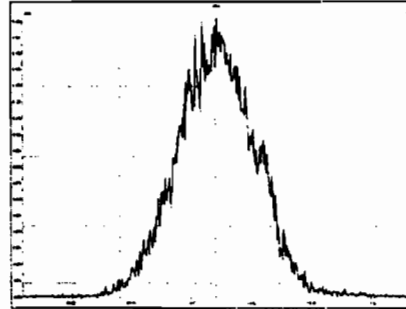
M 292.9824 R 10916



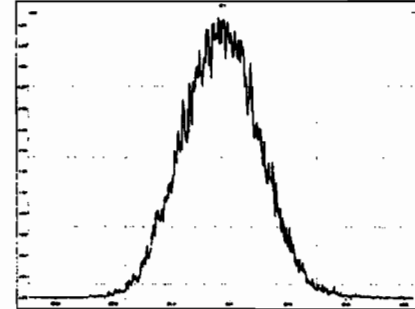
M 304.9824 R 11312



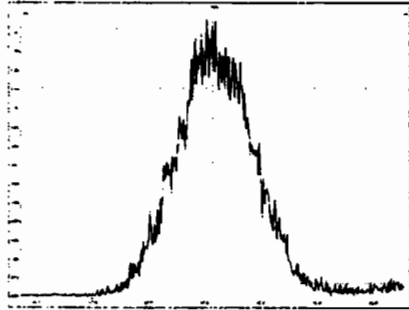
M 318.9792 R 10918



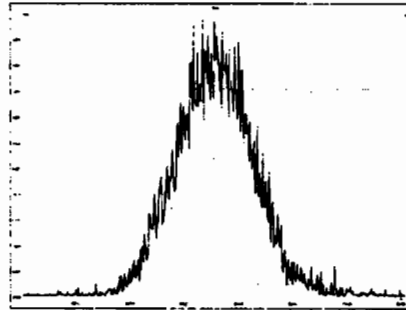
M 330.9792 R 10508



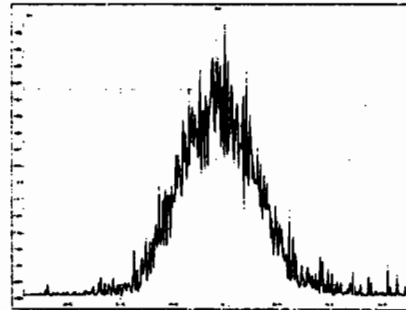
M 342.9792 R 10918



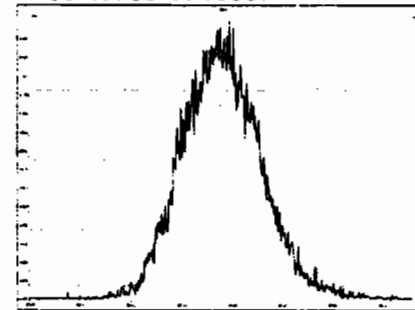
M 354.9792 R 11176



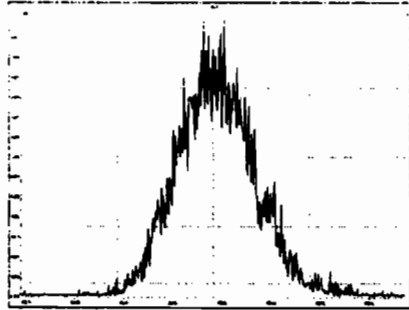
M 366.9792 R 10980



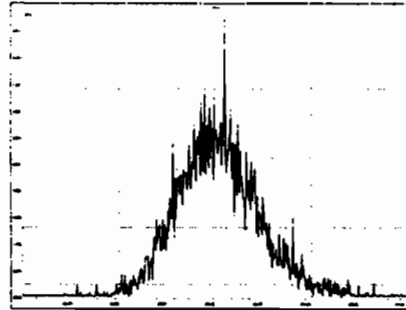
M 380.9760 R 10997



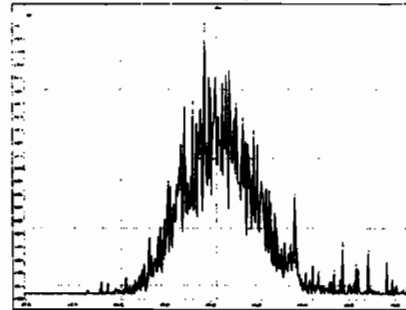
M 392.9760 R 11311



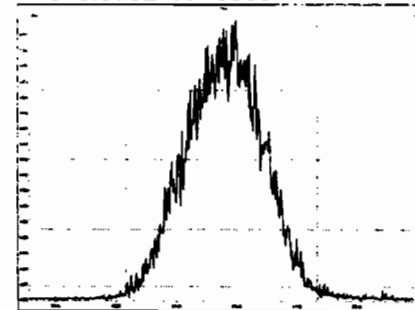
M 404.9760 R 11271



M 416.9760 R 11604

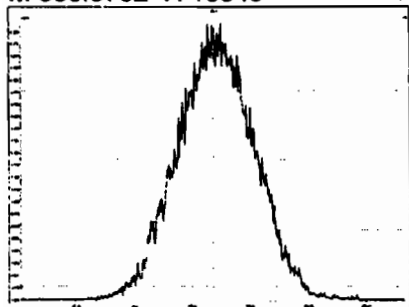


M 318.9792 R 10989

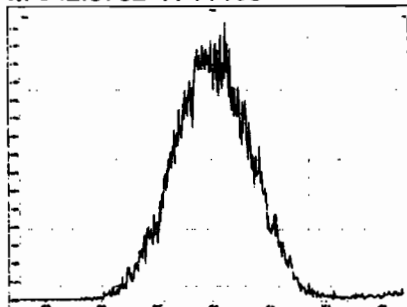


Printed: Monday, February 03, 2020 23:56:34 Pacific Standard Time

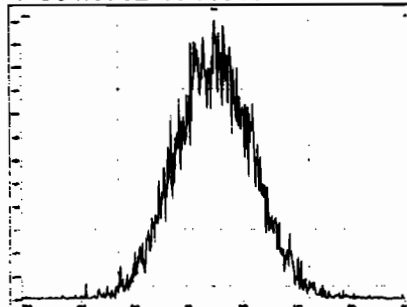
M 330.9792 R 10849



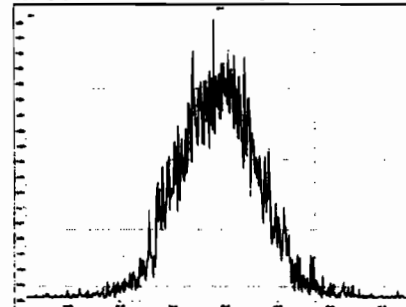
M 342.9792 R 11160



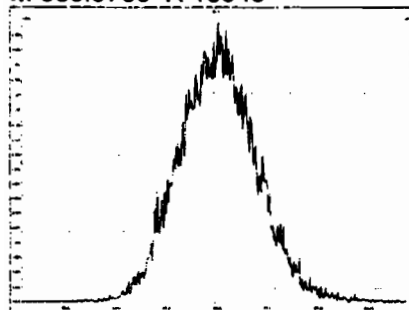
M 354.9792 R 11016



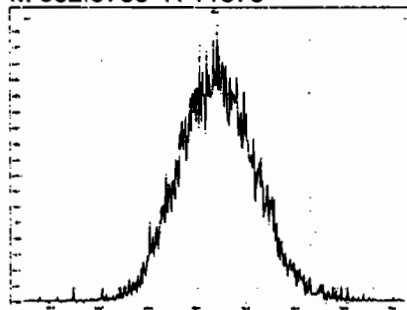
M 366.9792 R 11409



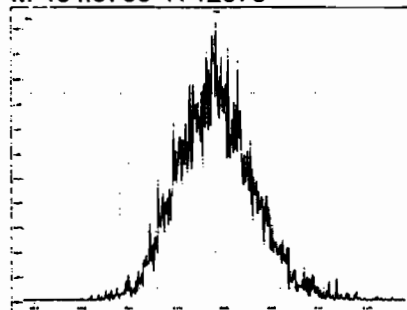
M 380.9760 R 10949



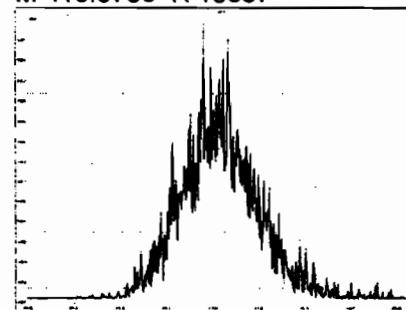
M 392.9760 R 11573



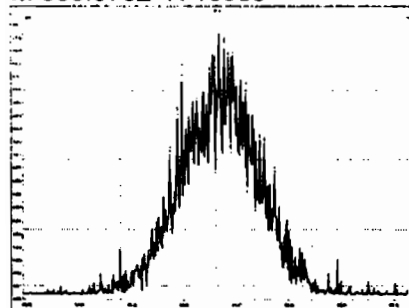
M 404.9760 R 12078



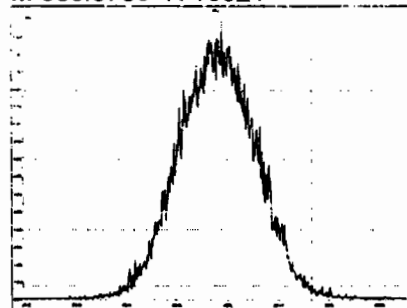
M 416.9760 R 10857



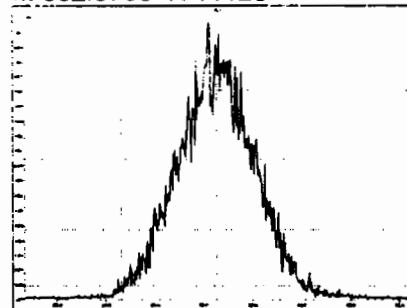
M 366.9792 R 10985



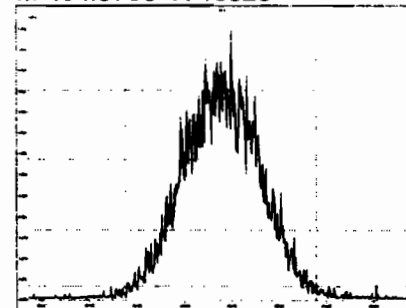
M 380.9760 R 10921



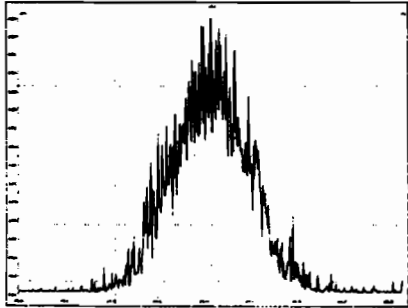
M 392.9760 R 11128



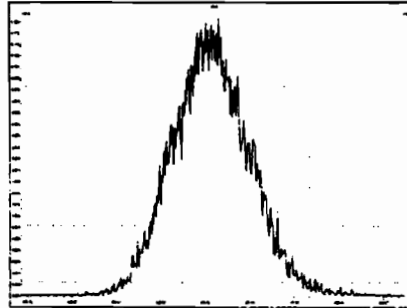
M 404.9760 R 10929



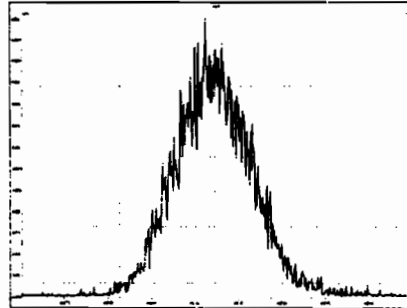
M 416.9760 R 11261



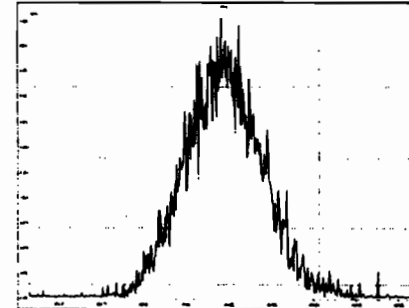
M 430.9728 R 10706



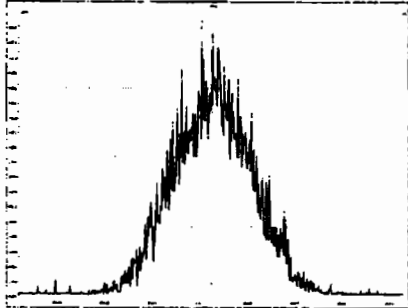
M 442.9728 R 11178



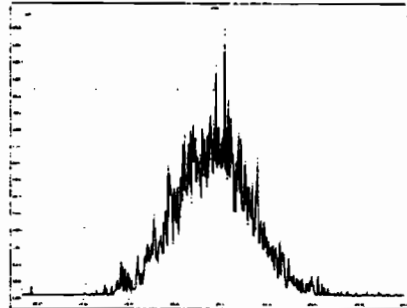
M 454.9728 R 11163



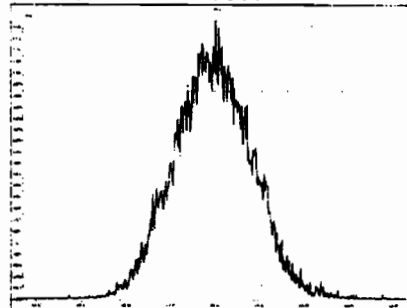
M 404.9760 R 10688



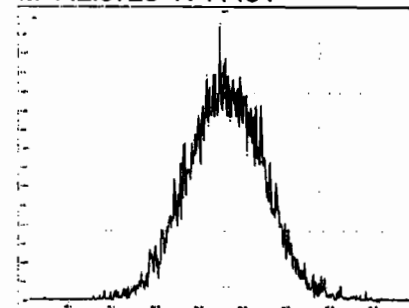
M 416.9760 R 11138



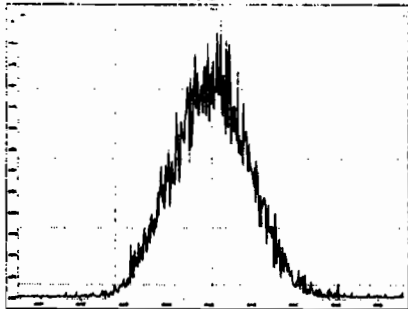
M 430.9728 R 10597



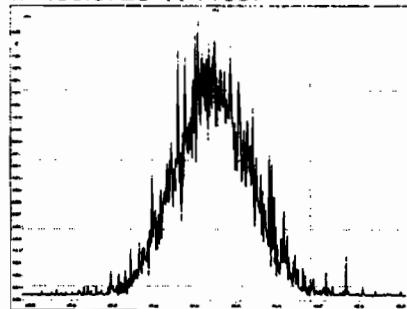
M 442.9728 R 11454



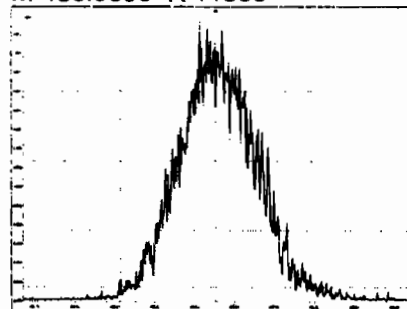
M 454.9728 R 10776



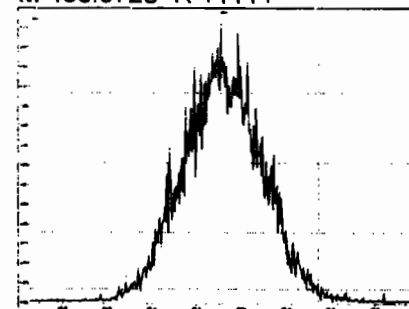
M 466.9728 R 11037



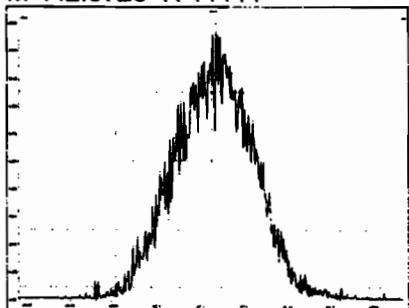
M 480.9696 R 11536



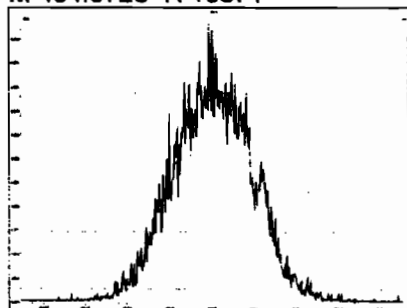
M 430.9728 R 11111



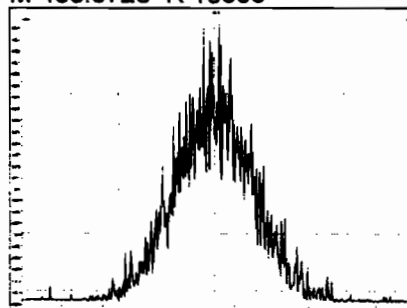
M 442.9728 R 11111



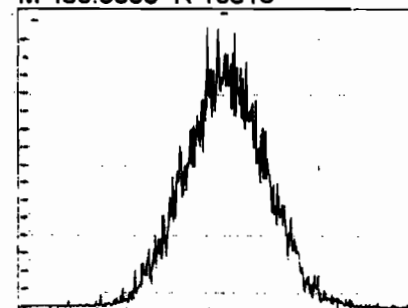
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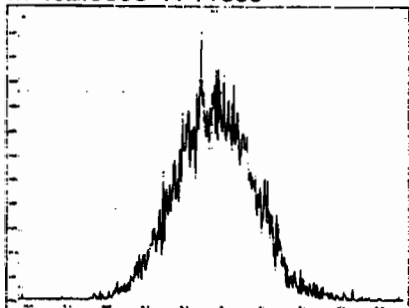
M 466.9728 R 10595



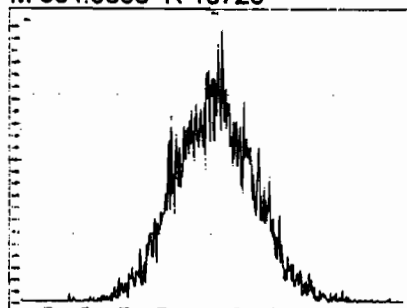
M 480.9696 R 10513



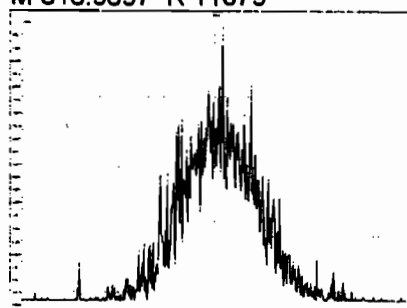
M 492.9696 R 11039



M 504.9696 R 10729



M 516.9697 R 11079



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST20031821-1

Reviewed By: CT 03/19/2020

Initials & Date

End Calibration ID: NA

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

Comments:

Dataset: U:\VG12.PRO\Results\200318R1\200318R1-1.qld

Last Altered: Wednesday, March 18, 2020 16:19:33 Pacific Daylight Time
Printed: Wednesday, March 18, 2020 16:20:45 Pacific Daylight Time

GRB 03/18/2020

CT 03/19/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R1_1, Date: 18-Mar-2020, Time: 15:30:33, ID: ST200318R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	8.74e4	9.60e5	0.80	NO	0.983	25.81	25.80	NO	1.001	1.001	9.2633	92.6	NO
2	2 1,2,3,7,8-PeCDD	3.36e5	7.67e5	0.61	NO	0.921	31.09	31.08	NO	1.001	1.000	47.554	95.1	NO
3	3 1,2,3,4,7,8-HxCDD	3.10e5	5.50e5	1.24	NO	1.13	34.48	34.48	NO	1.000	1.000	49.674	99.3	NO
4	4 1,2,3,6,7,8-HxCDD	3.20e5	6.97e5	1.25	NO	0.984	34.57	34.58	NO	1.000	1.000	46.621	93.2	NO
5	5 1,2,3,7,8,9-HxCDD	2.94e5	6.32e5	1.26	NO	0.967	34.84	34.84	NO	1.000	1.000	48.071	96.1	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.46e5	5.06e5	1.04	NO	1.01	38.26	38.27	NO	1.000	1.001	48.409	96.8	NO
7	7 OCDD	4.75e5	9.90e5	0.92	NO	1.05	41.31	41.32	NO	1.000	1.000	91.204	91.2	NO
8	8 2,3,7,8-TCDF	1.13e5	1.32e6	0.75	NO	0.915	24.80	24.81	NO	1.001	1.001	9.3635	93.6	NO
9	9 1,2,3,7,8-PeCDF	5.09e5	1.08e6	1.56	NO	0.959	29.74	29.74	NO	1.001	1.001	49.091	98.2	NO
10	10 2,3,4,7,8-PeCDF	5.29e5	1.09e6	1.58	NO	1.00	30.77	30.76	NO	1.001	1.000	48.359	96.7	NO
11	11 1,2,3,4,7,8-HxCDF	4.10e5	8.09e5	1.22	NO	1.04	33.61	33.63	NO	1.000	1.001	48.818	97.6	NO
12	12 1,2,3,6,7,8-HxCDF	4.45e5	9.03e5	1.25	NO	1.01	33.75	33.75	NO	1.000	1.000	48.708	97.4	NO
13	13 2,3,4,6,7,8-HxCDF	4.34e5	8.22e5	1.21	NO	1.09	34.33	34.32	NO	1.001	1.001	48.367	96.7	NO
14	14 1,2,3,7,8,9-HxCDF	3.35e5	6.75e5	1.23	NO	1.03	35.17	35.18	NO	1.000	1.000	48.298	96.6	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.34e5	6.61e5	1.00	NO	1.05	36.90	36.88	NO	1.001	1.000	48.218	96.4	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.60e5	4.43e5	1.02	NO	1.21	38.90	38.92	NO	1.000	1.001	48.571	97.1	NO
17	17 OCDF	5.49e5	1.19e6	0.88	NO	0.947	41.49	41.50	NO	1.000	1.000	97.240	97.2	NO
18	18 13C-2,3,7,8-TCDD	9.60e5	8.34e5	0.78	NO	1.18	25.77	25.78	NO	1.029	1.029	97.175	97.2	NO
19	19 13C-1,2,3,7,8-PeCDD	7.67e5	8.34e5	0.63	NO	0.864	30.96	31.06	NO	1.236	1.240	106.45	106	NO
20	20 13C-1,2,3,4,7,8-HxCDD	5.50e5	8.17e5	1.28	NO	0.754	34.47	34.47	NO	1.014	1.014	89.378	89.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.97e5	8.17e5	1.25	NO	0.925	34.58	34.57	NO	1.017	1.017	92.178	92.2	NO
22	22 13C-1,2,3,7,8,9-HxCDD	6.32e5	8.17e5	1.28	NO	0.829	34.84	34.83	NO	1.025	1.024	93.304	93.3	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.06e5	8.17e5	1.07	NO	0.598	38.31	38.25	NO	1.127	1.125	103.56	104	NO
24	24 13C-OCDD	9.90e5	8.17e5	0.89	NO	0.571	41.46	41.31	NO	1.219	1.215	212.25	106	NO
25	25 13C-2,3,7,8-TCDF	1.32e6	1.26e6	0.78	NO	1.09	24.79	24.78	NO	0.990	0.989	96.184	96.2	NO
26	26 13C-1,2,3,7,8-PeCDF	1.08e6	1.26e6	1.58	NO	0.876	29.63	29.72	NO	1.183	1.187	98.261	98.3	NO
27	27 13C-2,3,4,7,8-PeCDF	1.09e6	1.26e6	1.58	NO	0.844	30.64	30.74	NO	1.223	1.227	102.96	103	NO
28	28 13C-1,2,3,4,7,8-HxCDF	8.09e5	8.17e5	0.52	NO	1.00	33.62	33.61	NO	0.989	0.988	99.108	99.1	NO
29	29 13C-1,2,3,6,7,8-HxCDF	9.03e5	8.17e5	0.51	NO	1.12	33.73	33.74	NO	0.992	0.992	98.934	98.9	NO
30	30 13C-2,3,4,6,7,8-HxCDF	8.22e5	8.17e5	0.52	NO	1.04	34.31	34.30	NO	1.009	1.009	97.184	97.2	NO
31	31 13C-1,2,3,7,8,9-HxCDF	6.75e5	8.17e5	0.52	NO	0.873	35.18	35.17	NO	1.035	1.034	94.621	94.6	NO

Dataset: U:\VG12.PRO\Results\200318R1\200318R1-1.qld

Last Altered: Wednesday, March 18, 2020 16:19:33 Pacific Daylight Time
Printed: Wednesday, March 18, 2020 16:20:45 Pacific Daylight Time

Name: 200318R1_1, Date: 18-Mar-2020, Time: 15:30:33, ID: ST200318R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	6.61e5	8.17e5	0.45	NO	0.771	36.90	36.87	NO	1.085	1.084	105.06	105	NO
33	13C-1,2,3,4,7,8,9-HpCDF	4.43e5	8.17e5	0.44	NO	0.519	38.99	38.90	NO	1.147	1.144	104.46	104	NO
34	13C-OCDF	1.19e6	8.17e5	0.88	NO	0.696	41.64	41.49	NO	1.225	1.220	209.61	105	NO
35	37Cl-2,3,7,8-TCDD	8.89e4	8.34e5			1.17	25.78	25.80	NO	1.029	1.030	9.0716	90.7	NO
36	13C-1,2,3,4-TCDD	8.34e5	8.34e5	0.79	NO	1.00	25.05	25.05	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	1.26e6	1.26e6	0.78	NO	1.00	23.19	23.12	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	8.17e5	8.17e5	0.51	NO	1.00	33.88	34.00	NO	1.000	1.000	100.00	100	YES ^{of}
39	Total Tetra-Dioxins		9.60e5			0.983	24.62		NO	0.000		81.434		NO
40	Total Penta-Dioxins		7.67e5			0.921	29.96		NO	0.000		206.09		NO
41	Total Hexa-Dioxins		0.00e0			0.984	33.63		NO	0.000		240.16		NO
42	Total Hepta-Dioxins		5.06e5			1.01	37.64		NO	0.000		131.92		NO
43	Total Tetra-Furans		1.32e6			0.915	23.61		NO	0.000		46.262		NO
44	1st Func. Penta-Furans		0.00e0			0.959	27.09		NO	0.000		85.994		NO
45	Total Penta-Furans		0.00e0			0.959	29.27		NO	0.000		166.94		NO
46	Total Hexa-Furans		0.00e0			1.09	33.56		NO	0.000		274.02		NO
47	Total Hepta-Furans		0.00e0			1.05	37.83		NO	0.000		96.789		NO

Dataset: U:\VG12.PRO\Results\200318R1\200318R1-CPSM.qld

Last Altered: Wednesday, March 18, 2020 16:21:07 Pacific Daylight Time

Printed: Wednesday, March 18, 2020 16:21:39 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R1_1, Date: 18-Mar-2020, Time: 15:30:33, ID: ST200318R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.42
2	2 1,2,8,9-TCDD (Last)	26.84
3	3 1,2,4,7,9-PeCDD (First)	28.76
4	4 1,2,3,8,9-PeCDD (Last)	31.48
5	5 1,2,4,6,7,9-HxCDD (First)	33.01
6	6 1,2,3,7,8,9-HxCDD (Last)	34.84
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.25
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.27
9	9 1,3,6,8-TCDF (First)	19.42
10	10 1,2,8,9-TCDF (Last)	27.01
11	11 1,3,4,6,8-PeCDF (First)	26.96
12	12 1,2,3,8,9-PeCDF (Last)	31.72
13	13 1,2,3,4,6,8-HxCDF (First)	32.44
14	14 1,2,3,7,8,9-HxCDF (Last)	35.18
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.88
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.92

Dataset: Untitled

Last Altered: Thursday, March 19, 2020 07:33:25 Pacific Daylight Time

Printed: Thursday, March 19, 2020 07:33:49 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

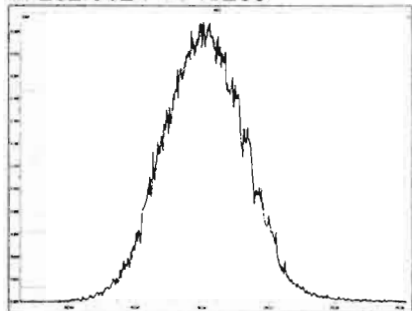
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200318R1_1	ST200318R1_1 1613 CS3 19L2305	18-Mar-20	15:30:33
2	200318R1_2	B0B0187-BS1 OPR 10	18-Mar-20	16:17:45
3	200318R1_3	B0C0038-BS1 OPR 10	18-Mar-20	17:04:28
4	200318R1_4	B0C0209-BS1 OPR 10	18-Mar-20	17:52:09
5	200318R1_5	SOLVENT BLANK	18-Mar-20	18:39:49
6	200318R1_6	B0B0187-BLK1 Method Blank 10	18-Mar-20	19:27:30
7	200318R1_7	B0C0038-BLK1 Method Blank 10	18-Mar-20	20:15:08
8	200318R1_8	B0C0209-BLK1 Method Blank 10	18-Mar-20	21:02:47
9	200318R1_9	2000194-12 PDI-057SC-A-07-08-191023 16.62	18-Mar-20	21:50:26
10	200318R1_10	2000194-13 PDI-057SC-A-08-09-191023 15.92	18-Mar-20	22:38:04
11	200318R1_11	2000194-14 PDI-062SC-A-08-09-191023 15.59	18-Mar-20	23:25:43
12	200318R1_12	2000194-15 PDI-062SC-A-09-10-191023 12.41	19-Mar-20	00:13:28
13	200318R1_13	2000142-16RE1 PDI-023SC-A-07-08-191009 ...	19-Mar-20	01:01:06
14	200318R1_14	2000143-19@2X PDI-049SC-A-02-03-191015 ...	19-Mar-20	01:48:46
15	200318R1_15	2000194-03@10X PDI-035SC-A-01-02-19101...	19-Mar-20	02:36:32

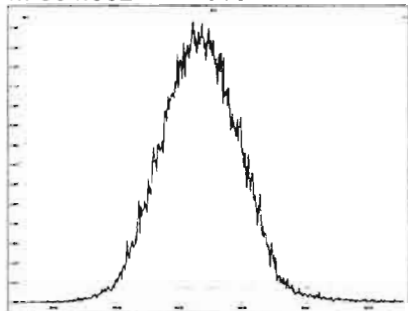
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, March 18, 2020 15:26:14 Pacific Daylight Time

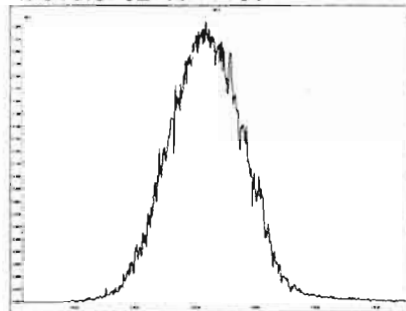
M 292.9824 R 10289



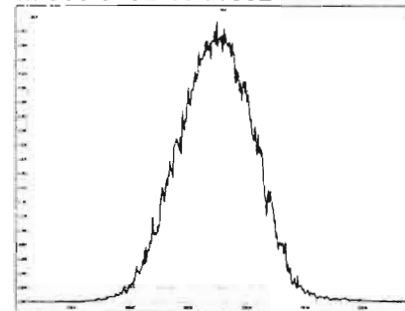
M 304.9824 R 10637



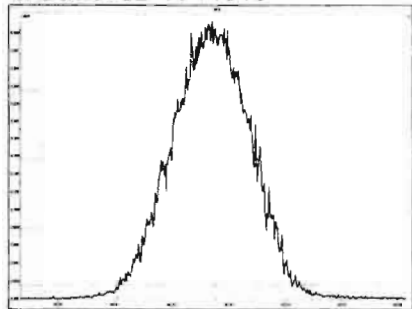
M 318.9792 R 11158



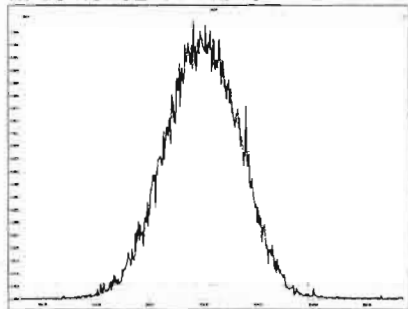
M 330.9792 R 11062



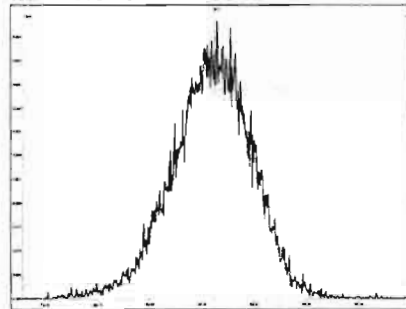
M 342.9792 R 11310



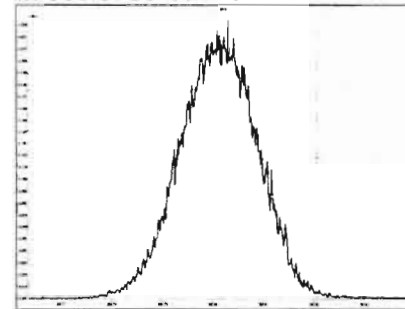
M 354.9792 R 11010



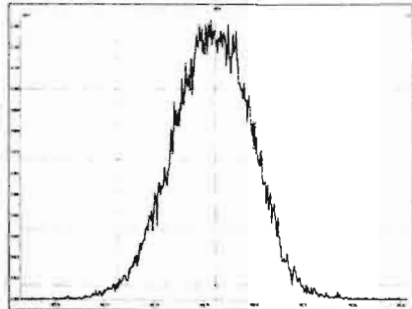
M 366.9792 R 10683



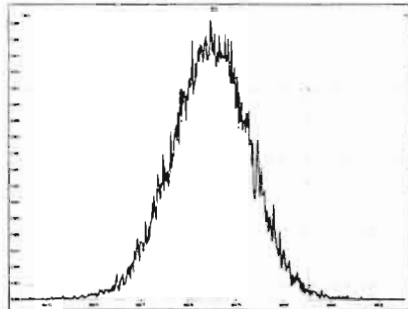
M 380.9760 R 11011



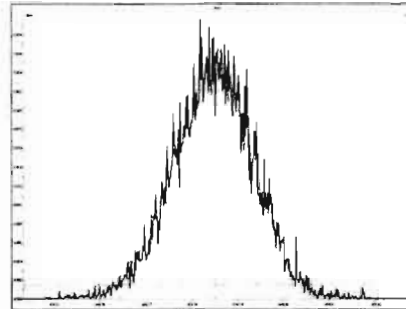
M 392.9760 R 10730



M 404.9760 R 11159



M 416.9760 R 11571



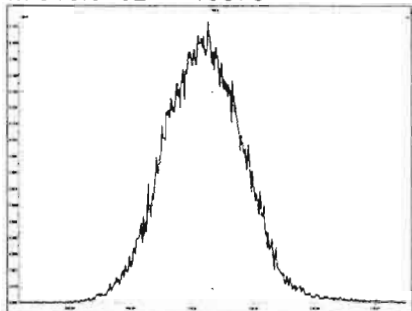
Experiment Calibration Report

MassLynx 4.1 SCN815

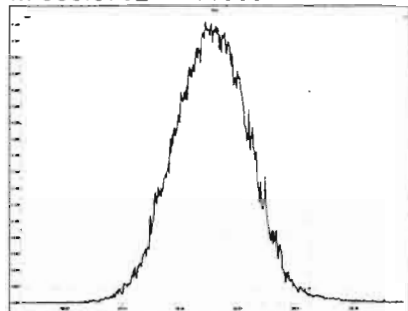
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, March 18, 2020 15:26:48 Pacific Daylight Time

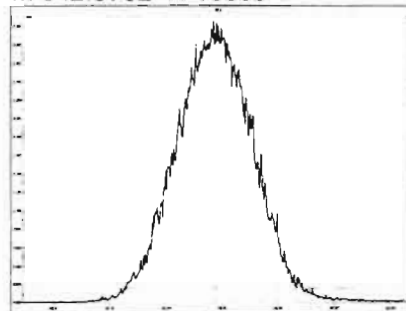
M 318.9792 R 10873



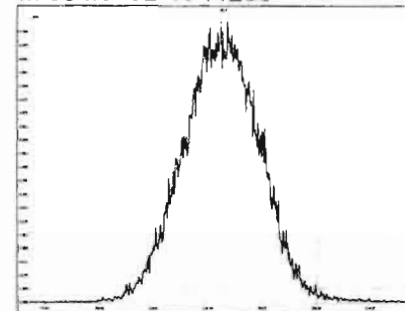
M 330.9792 R 11009



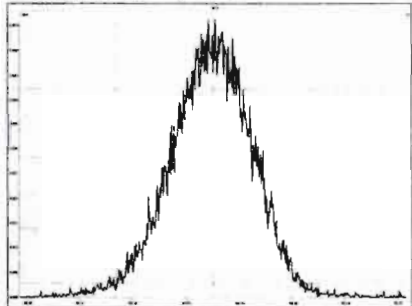
M 342.9792 R 10869



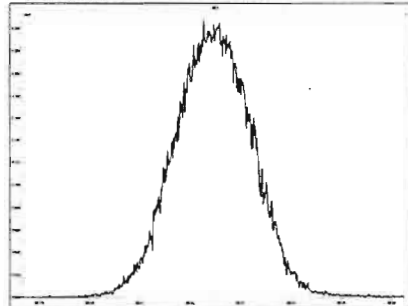
M 354.9792 R 11263



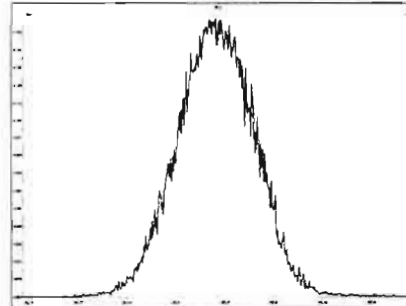
M 366.9792 R 11111



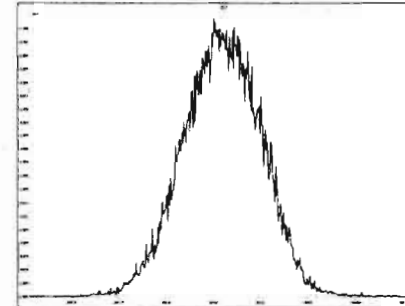
M 380.9760 R 11012



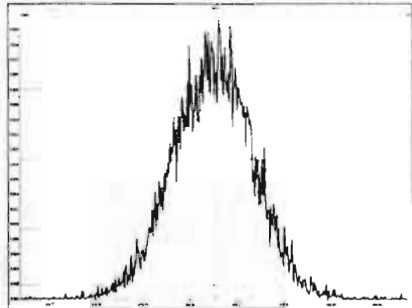
M 392.9760 R 10918



M 404.9760 R 10916



M 416.9760 R 11064



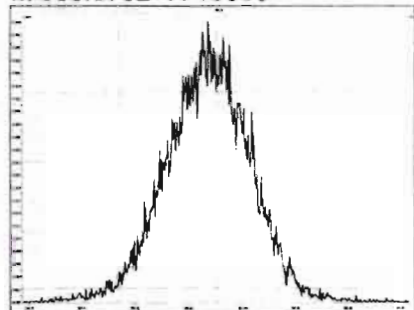
Experiment Calibration Report

MassLynx 4.1 SCN815

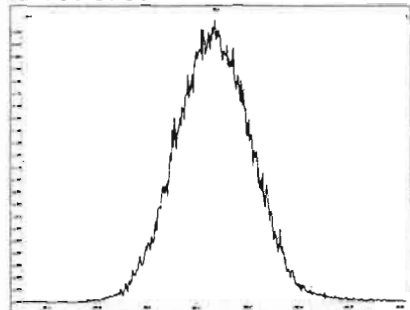
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, March 18, 2020 15:27:18 Pacific Daylight Time

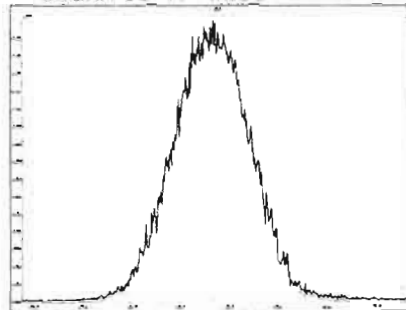
M 366.9792 R 10593



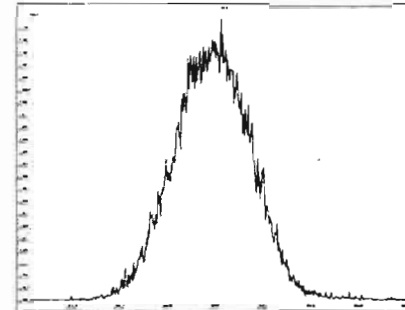
M 380.9760 R 11159



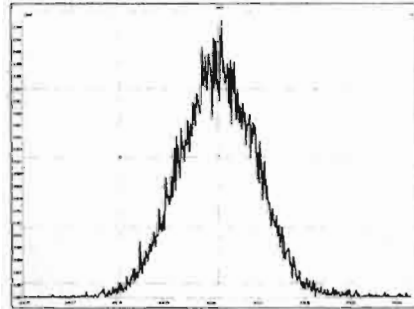
M 392.9760 R 10866



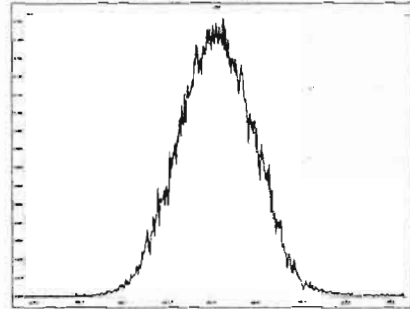
M 404.9760 R 11061



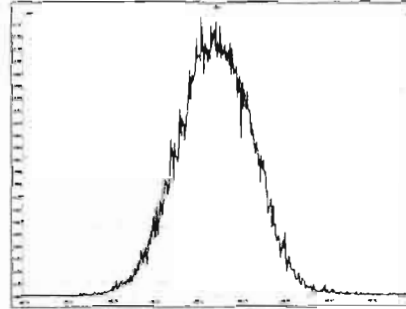
M 416.9760 R 11162



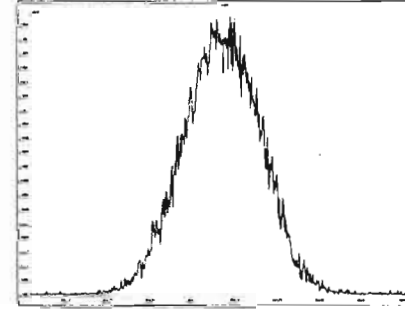
M 430.9728 R 11161



M 442.9728 R 11260



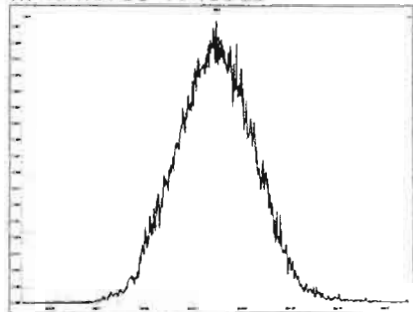
M 454.9728 R 11059



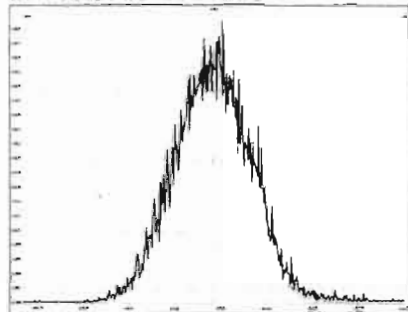
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Printed: Wednesday, March 18, 2020 15:27:55 Pacific Daylight Time

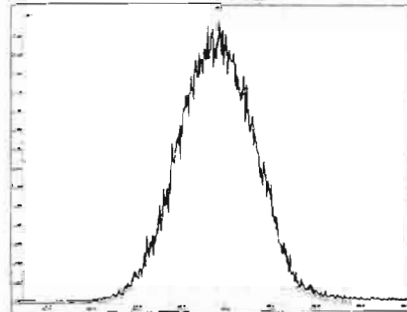
M 404.9760 R 10965



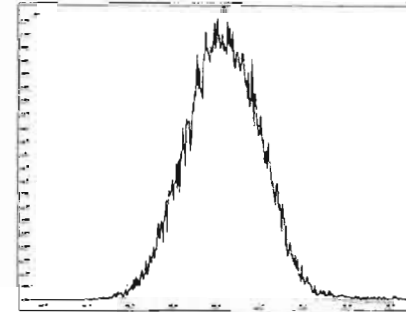
M 416.9760 R 11060



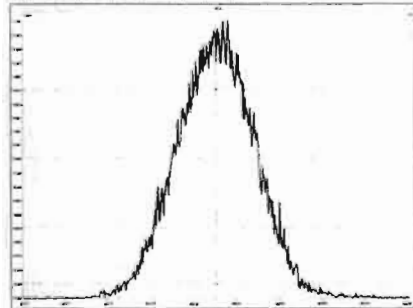
M 430.9728 R 11112



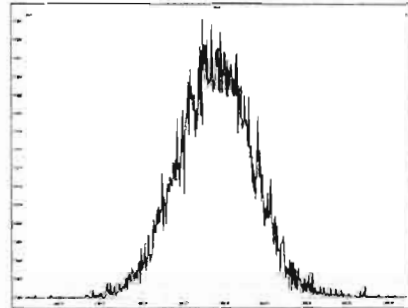
M 442.9728 R 10917



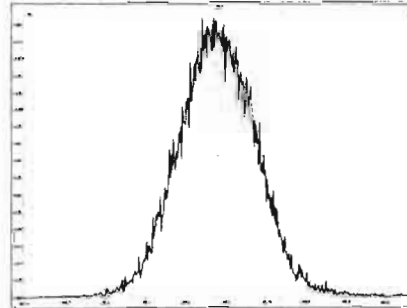
M 454.9728 R 11417



M 466.9728 R 11737



M 480.9696 R 11012



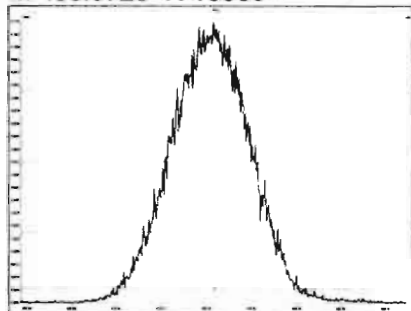
Experiment Calibration Report

MassLynx 4.1 SCN815

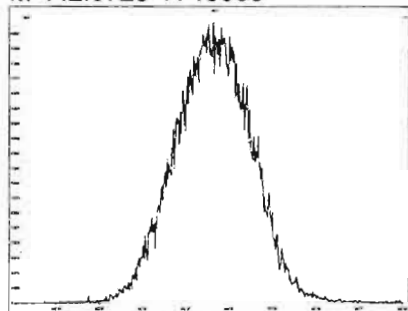
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, March 18, 2020 15:28:37 Pacific Daylight Time

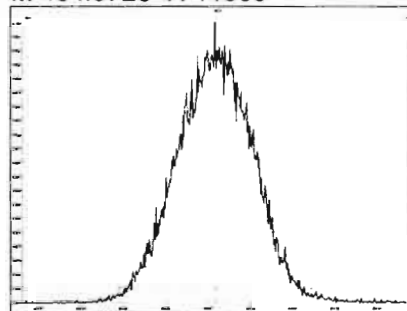
M 430.9728 R 10683



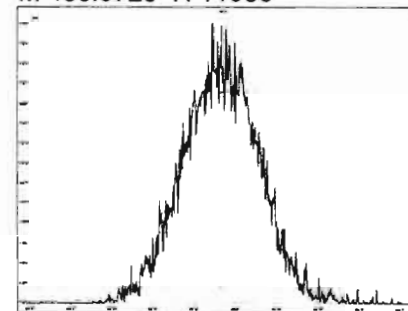
M 442.9728 R 10966



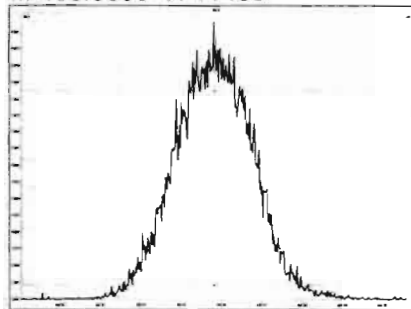
M 454.9728 R 11363



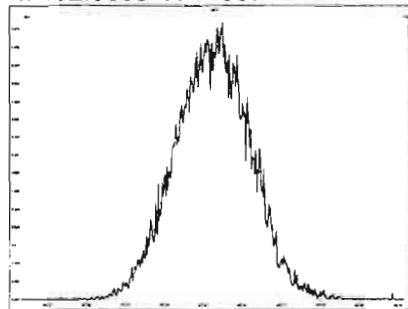
M 466.9728 R 11960



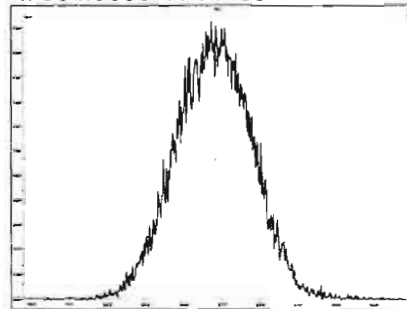
M 480.9696 R 11465



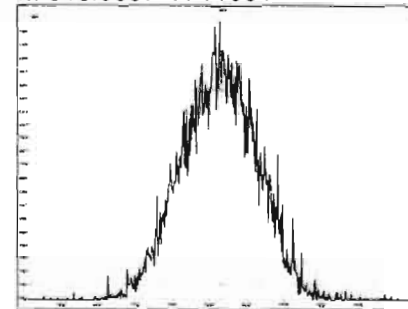
M 492.9696 R 11367



M 504.9696 R 11466



M 516.9697 R 11901



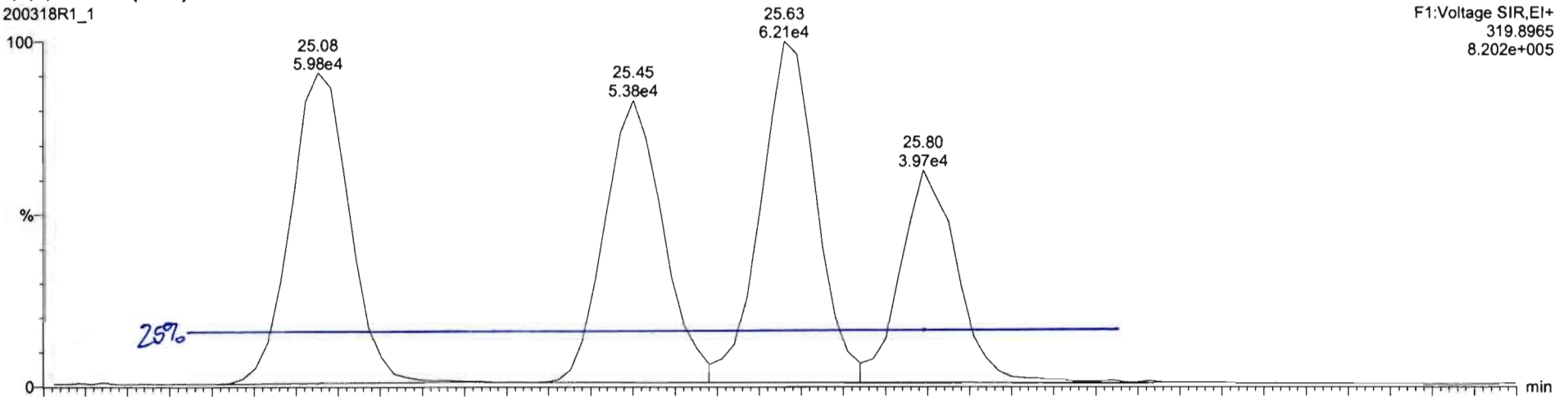
Dataset: U:\VG12.PRO\Results\200318R1\200318R1-CPSM.qld

Last Altered: Wednesday, March 18, 2020 16:21:07 Pacific Daylight Time
Printed: Wednesday, March 18, 2020 16:21:39 Pacific Daylight Time

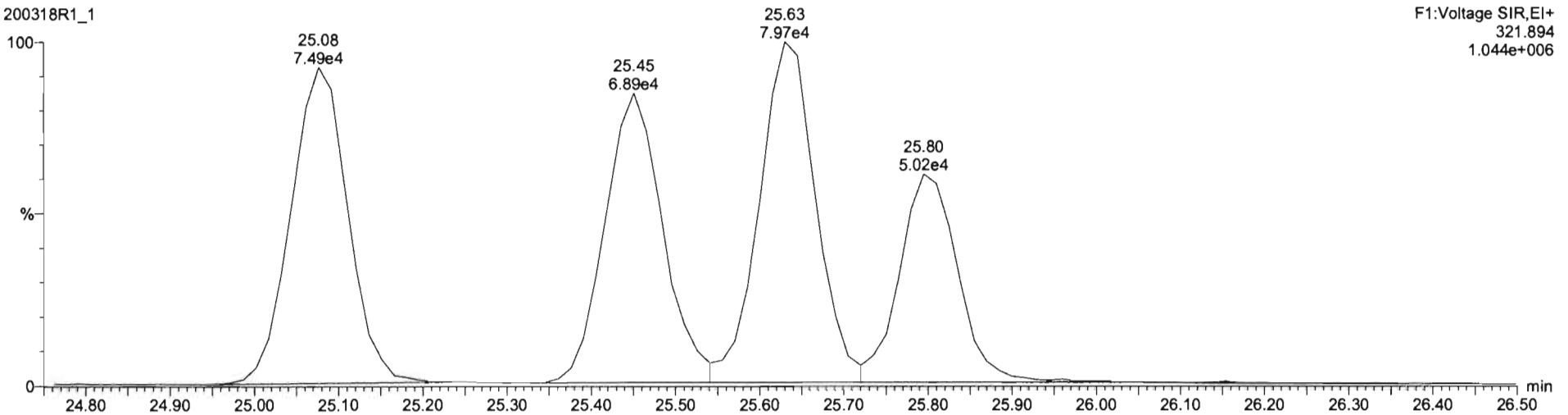
Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R1_1, Date: 18-Mar-2020, Time: 15:30:33, ID: ST200318R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200318R1_1



200318R1_1



Dataset: Untitled

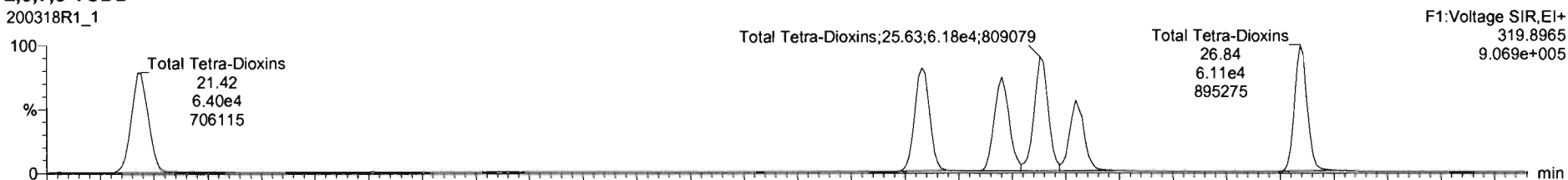
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Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

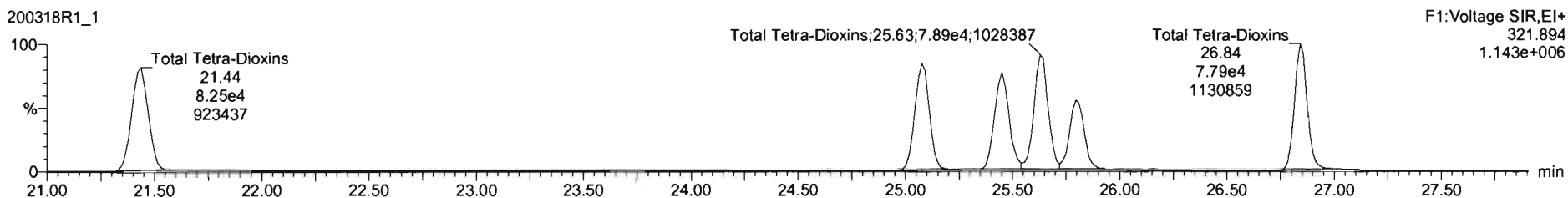
Name: 200318R1_1, Date: 18-Mar-2020, Time: 15:30:33, ID: ST200318R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200318R1_1

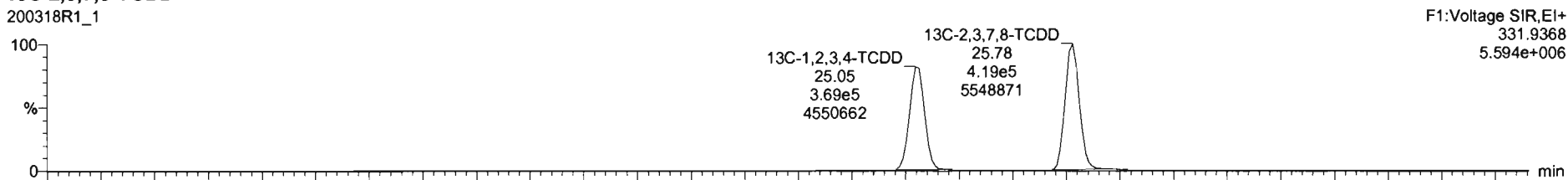


200318R1_1

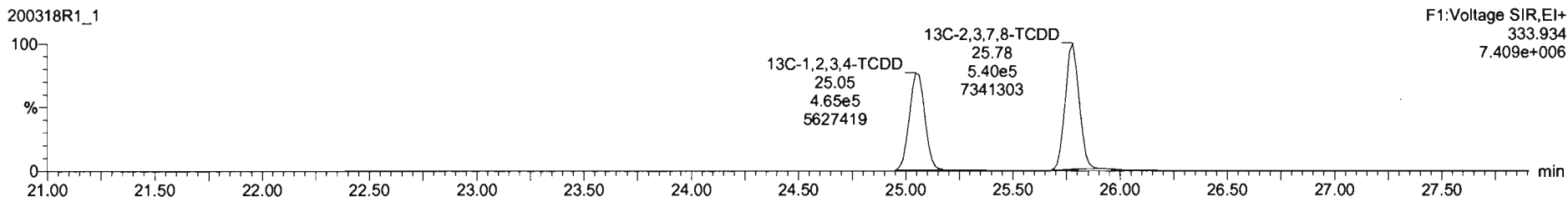


13C-2,3,7,8-TCDD

200318R1_1



200318R1_1



Dataset: Untitled

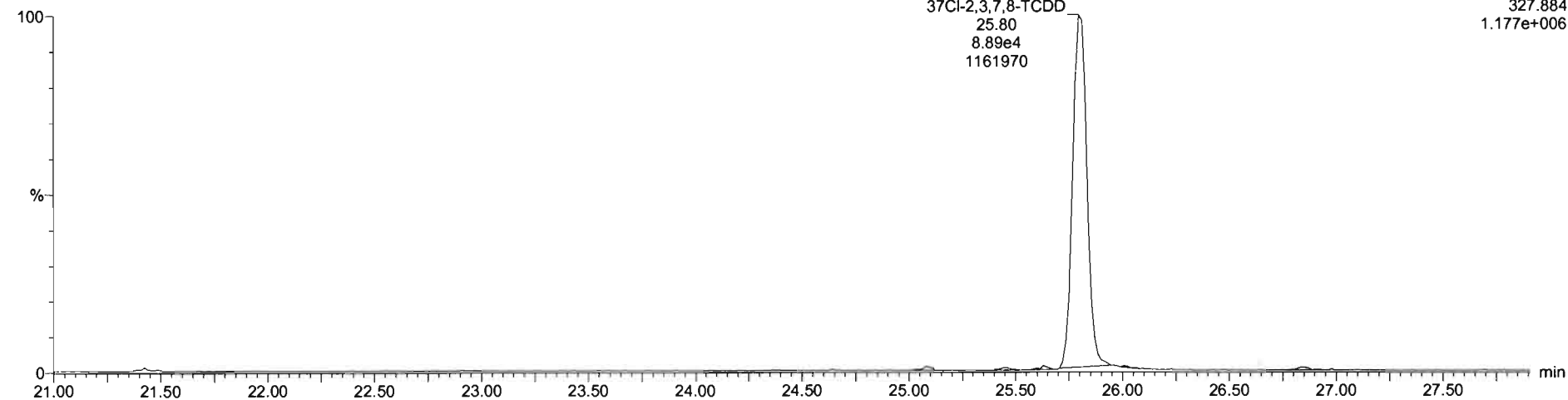
Last Altered: Wednesday, March 18, 2020 16:20:50 Pacific Daylight Time

Printed: Wednesday, March 18, 2020 16:21:00 Pacific Daylight Time

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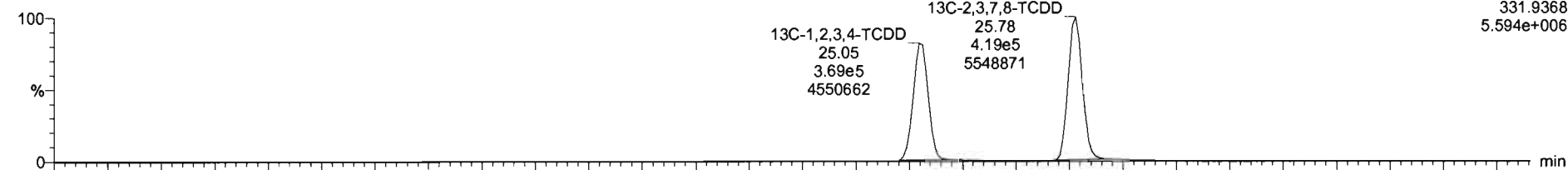
37Cl-2,3,7,8-TCDD

200318R1_1

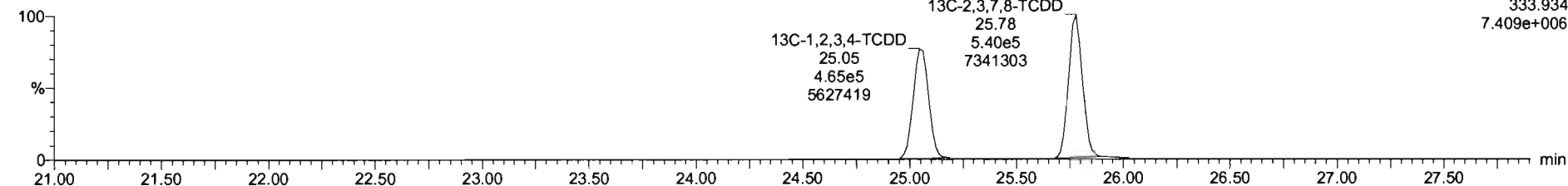


13C-1,2,3,4-TCDD

200318R1_1



200318R1_1



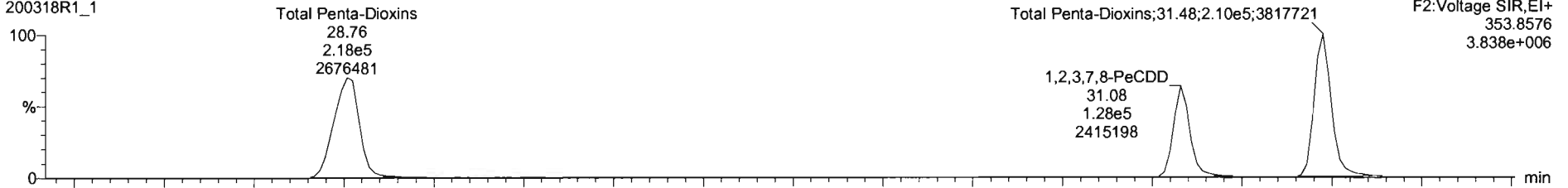
Dataset: Untitled

Last Altered: Wednesday, March 18, 2020 16:20:50 Pacific Daylight Time
Printed: Wednesday, March 18, 2020 16:21:00 Pacific Daylight Time

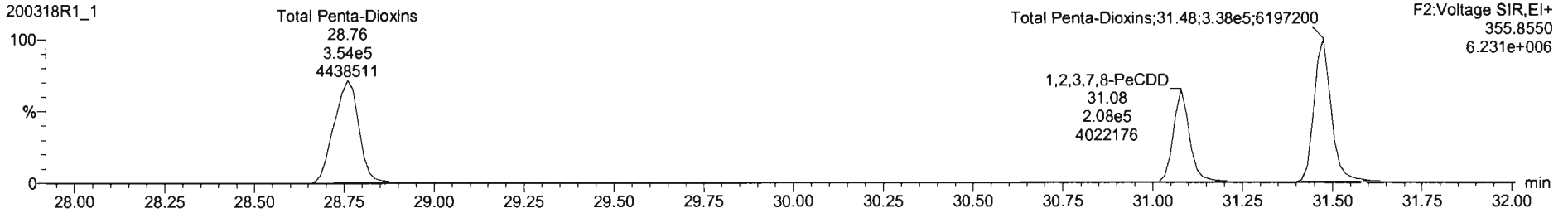
Name: 200318R1_1, Date: 18-Mar-2020, Time: 15:30:33, ID: ST200318R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200318R1_1

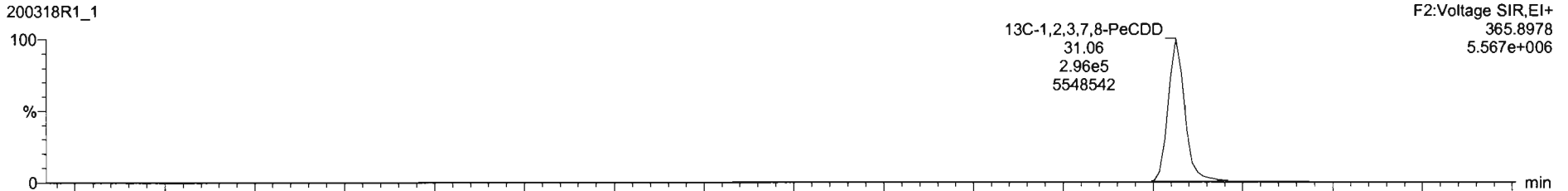


200318R1_1

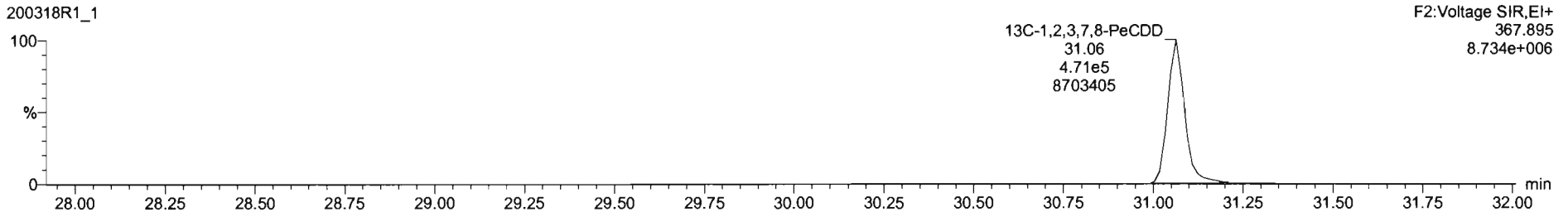


13C-1,2,3,7,8-PeCDD

200318R1_1



200318R1_1



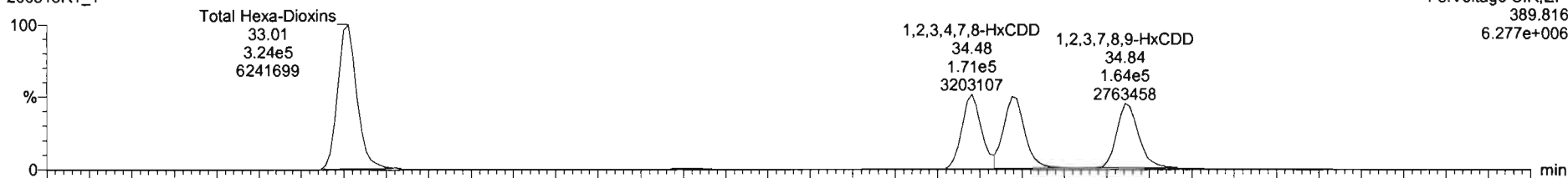
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Last Altered: Wednesday, March 18, 2020 16:20:50 Pacific Daylight Time
Printed: Wednesday, March 18, 2020 16:21:00 Pacific Daylight Time

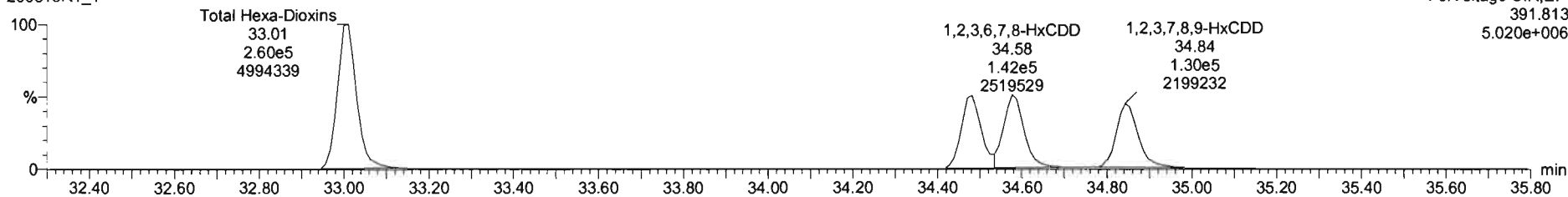
Name: 200318R1_1, Date: 18-Mar-2020, Time: 15:30:33, ID: ST200318R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200318R1_1

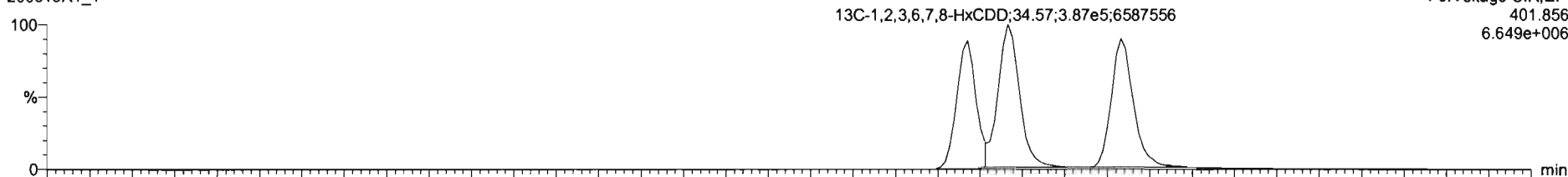


200318R1_1

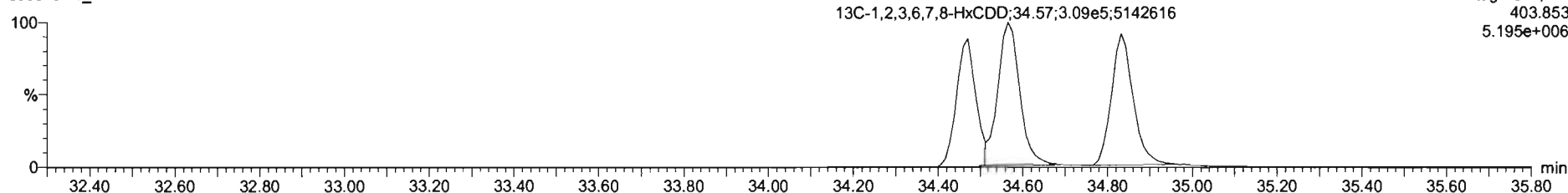


13C-1,2,3,4,7,8-HxCDD

200318R1_1



200318R1_1



Dataset: Untitled

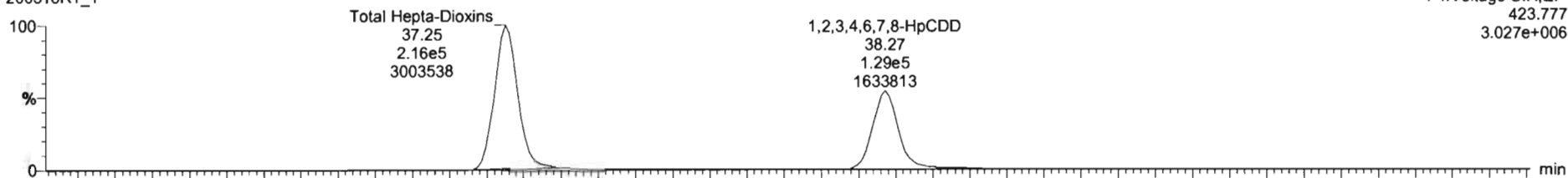
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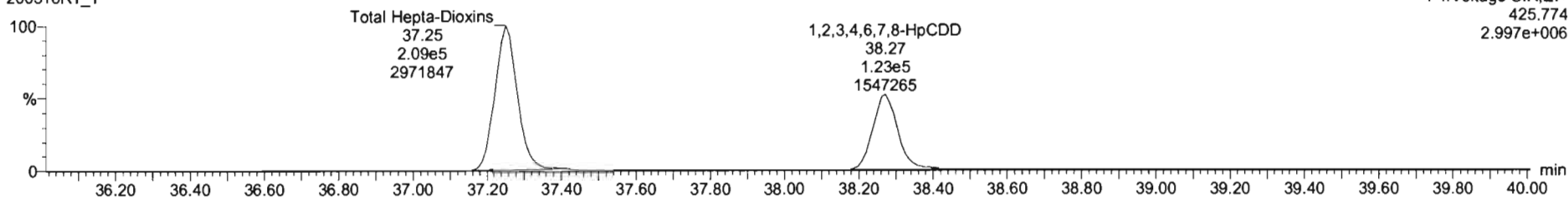
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1,2,3,4,6,7,8-HpCDD

200318R1_1

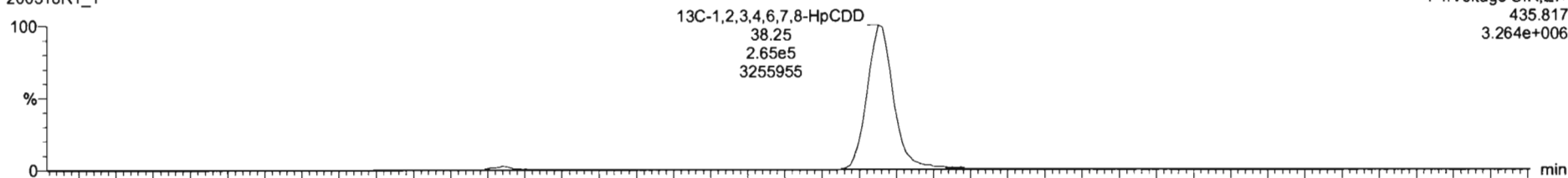


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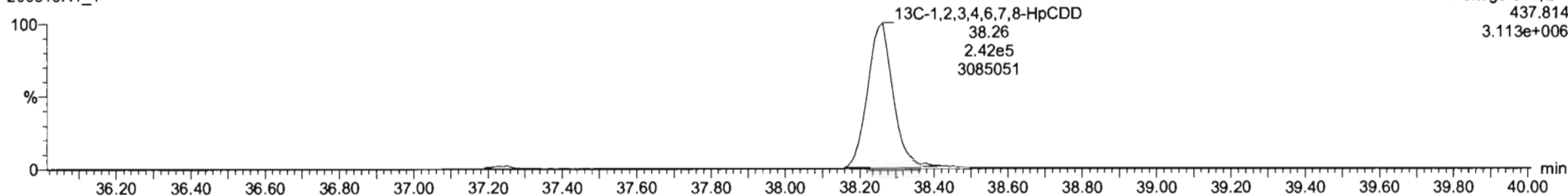


13C-1,2,3,4,6,7,8-HpCDD

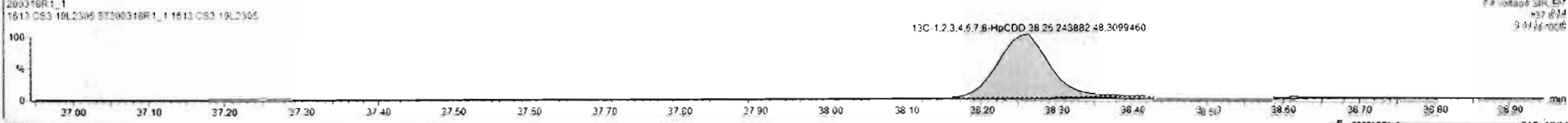
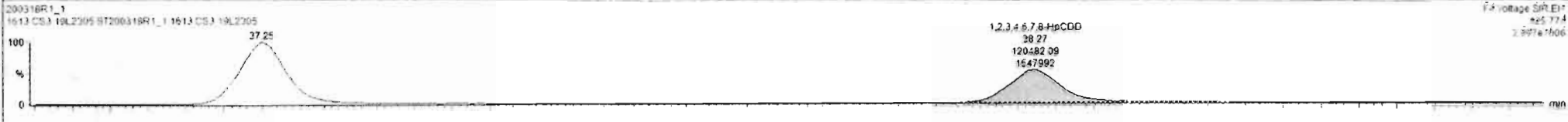
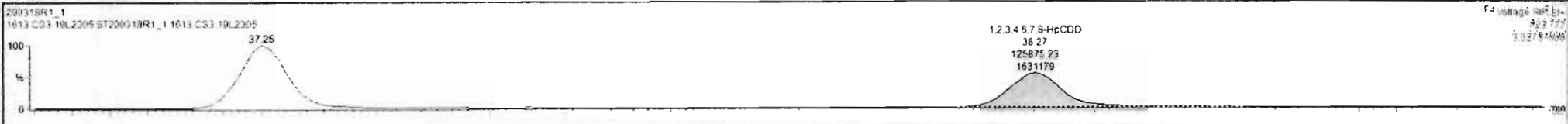
200318R1_1



200318R1_1



#	Name	Resp	S Resp	Pred RA	RA	My	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	6.74e4	9.60e5	0.77	0.80	NO	0.9835	25.81	25.80	NO	1.001	1.001	9.26	92.6	NO
2	1,2,3,7,8-PeCDD	3.36e5	7.67e5	0.62	0.61	NO	0.9212	31.98	31.08	NO	1.001	1.000	47.6	95.1	NO
3	1,2,3,4,7,8-HxCDD	2.10e5	5.50e5	1.24	1.24	NO	1.1325	34.46	34.48	NO	1.000	1.000	49.7	99.3	NO
4	1,2,3,6,7,8-HxCDD	3.20e5	6.97e5	1.24	1.25	NO	0.9944	34.57	34.58	NO	1.000	1.000	46.6	93.2	NO
5	1,2,3,7,8,9-HxCDD	2.94e5	6.32e5	1.24	1.26	NO	0.9674	34.84	34.84	NO	1.000	1.000	48.1	96.1	NO
6	1,2,3,4,6,7,8-HpCDD	2.46e5	5.06e5	1.04	1.04	NO	1.0061	36.26	36.27	NO	1.000	1.001	48.4	96.8	NO
7	OCDD	4.75e5	9.90e5	0.89	0.92	NO	1.0515	41.31	41.32	NO	1.000	1.000	91.2	91.2	NO
8	1,2,7,8-TCDF	1.13e5	1.32e6	0.77	0.75	NO	0.9154	24.89	24.81	NO	1.001	1.001	9.36	93.6	NO
9	1,2,3,7,8-PeCDF	5.09e5	1.08e6	1.55	1.56	NO	0.9594	29.74	29.74	NO	1.001	1.000	49.1	98.2	NO
10	1,2,3,4,7,8-PeCDF	5.29e5	1.09e6	1.55	1.58	NO	1.0035	30.77	30.76	NO	1.001	1.000	48.4	96.7	NO
11	1,2,3,4,7,8-HxCDF	4.10e5	6.09e5	1.24	1.22	NO	1.0381	33.61	33.63	NO	1.000	1.001	48.8	97.6	NO
12	1,2,3,6,7,8-HxCDF	4.45e5	9.03e5	1.24	1.25	NO	1.0126	33.74	33.75	NO	1.000	1.000	46.7	97.4	NO
13	1,2,3,4,6,7,8-HpCDF	4.34e5	8.22e5	1.24	1.21	NO	1.0920	34.33	34.33	NO	1.001	1.001	48.4	96.7	NO
14	1,2,3,7,8,9-HxCDF	3.35e5	6.75e5	1.24	1.23	NO	1.0265	35.17	35.18	NO	1.000	1.000	48.3	96.6	NO
15	1,2,3,4,6,7,8-HpCDF	3.34e5	6.61e5	1.04	1.00	NO	1.0483	36.99	36.88	NO	1.001	1.000	48.2	96.4	NO
16	1,2,3,4,7,8,9-HpCDF	2.60e5	4.43e5	1.04	1.02	NO	1.2099	36.99	36.92	NO	1.000	1.000	46.6	97.1	NO
17	OCDF	5.49e5	1.19e6	0.89	0.88	NO	0.9466	41.49	41.50	NO	1.000	1.000	97.2	97.2	NO



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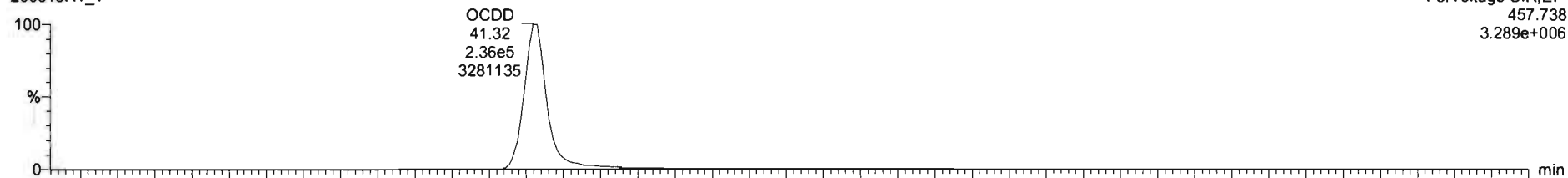
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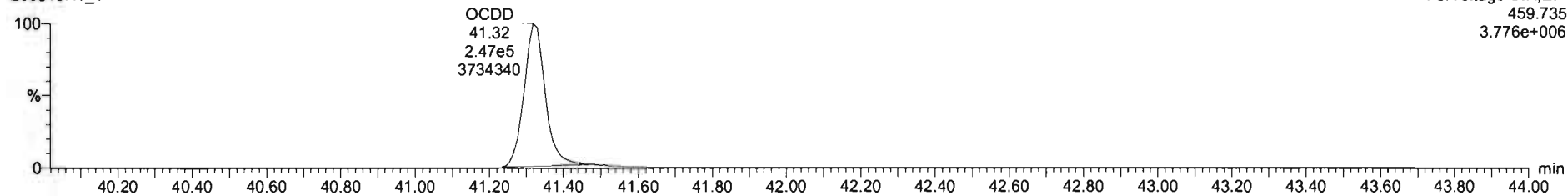
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OCDD

200318R1_1

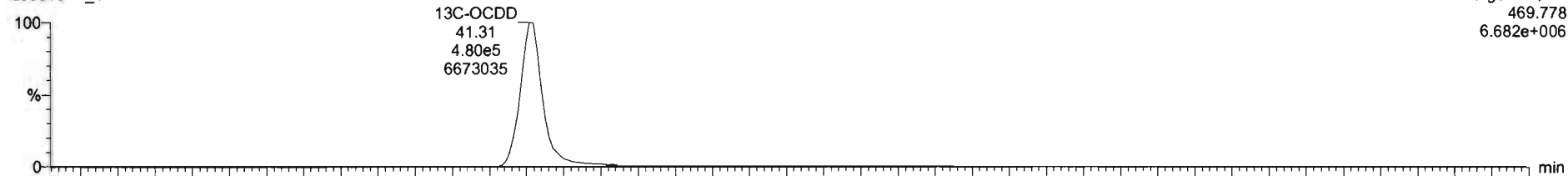


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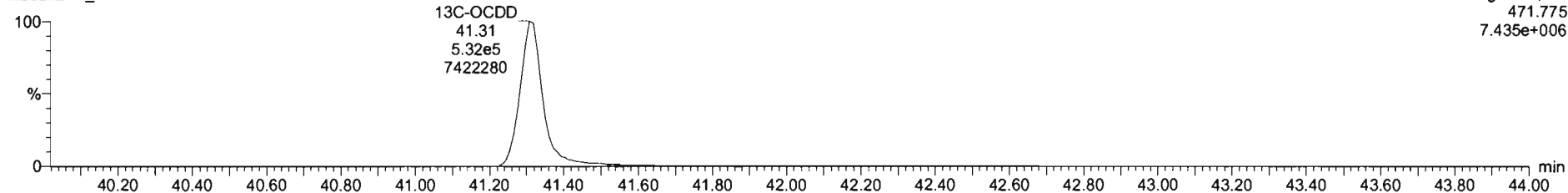


13C-OCDD

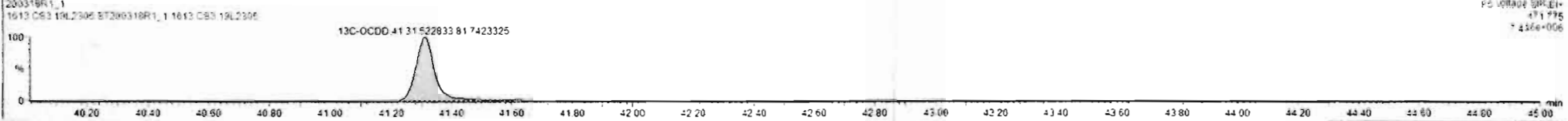
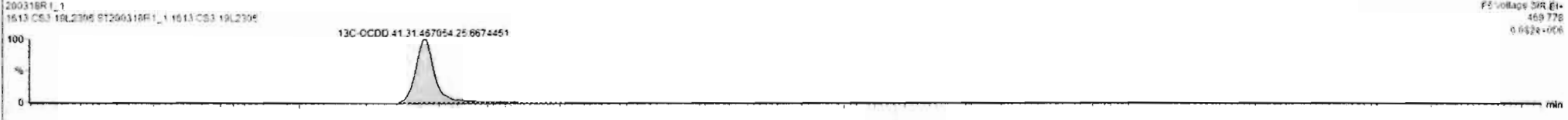
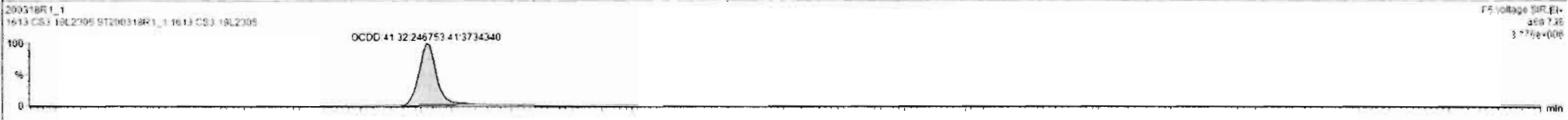
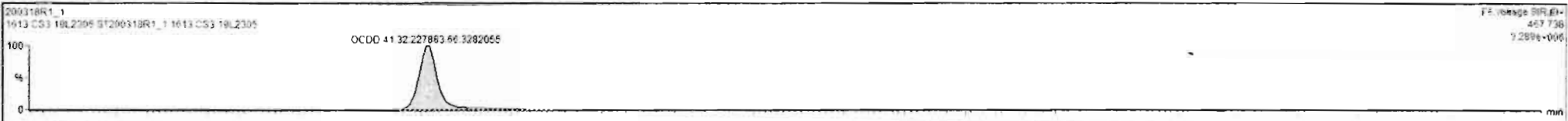
200318R1_1



200318R1_1



#	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	6.74e4	9.60e5	0.77	0.80	NO	0.9835	25.81	25.80	NO	1.001	1.001	9.26	92.6	NO
2	1,2,3,7,8-PeCDD	3.36e5	7.67e5	0.63	0.61	NO	0.9212	31.02	31.08	NO	1.001	1.000	47.6	95.1	NO
3	1,2,3,4,7,8-HxCDD	3.10e5	5.50e5	1.24	1.24	NO	1.1325	34.48	34.48	NO	1.000	1.000	45.7	95.3	NO
4	1,2,3,6,7,8-HxCDD	3.20e5	8.97e5	1.24	1.25	NO	0.9844	34.57	34.58	NO	1.000	1.000	46.6	93.2	NO
5	1,2,3,7,8,9-HxCDD	2.94e5	6.32e5	1.24	1.26	NO	0.9671	34.84	34.84	NO	1.000	1.000	48.1	96.1	NO
6	1,2,3,4,6,7,8-HpCDD	2.46e5	5.06e5	1.04	1.04	NO	1.0081	38.28	38.27	NO	1.000	1.001	46.4	96.8	NO
7	OCDD	4.75e5	8.90e5	0.89	0.92	NO	1.0515	41.31	41.32	NO	1.000	1.000	91.2	91.2	NO
8	1,2,3,7,8-TCDF	1.13e5	1.32e6	0.77	0.75	NO	0.9154	24.80	24.81	NO	1.001	1.001	9.76	93.6	NO
9	1,2,3,7,8-PeCDF	5.09e5	1.08e6	1.55	1.56	NO	0.9594	29.74	29.74	NO	1.001	1.000	49.1	98.2	NO
10	1,2,3,4,7,8-PeCDF	5.29e5	1.05e6	1.55	1.58	NO	1.0035	30.77	30.75	NO	1.001	1.000	48.4	96.7	NO
11	1,2,3,4,7,8-HxCDF	4.10e5	6.09e5	1.24	1.22	NO	1.0381	33.61	33.63	NO	1.000	1.001	48.6	97.6	NO
12	1,2,3,6,7,8-HxCDF	4.45e5	9.03e5	1.24	1.25	NO	1.0126	33.74	33.75	NO	1.000	1.000	48.7	97.4	NO
13	1,2,3,4,6,7,8-HpCDF	4.34e5	8.22e5	1.24	1.21	NO	1.0920	34.33	34.32	NO	1.001	1.001	48.4	96.7	NO
14	1,2,3,7,8,9-HxCDF	3.35e5	6.75e5	1.24	1.23	NO	1.0262	35.17	35.18	NO	1.000	1.000	48.3	96.6	NO
15	1,2,3,4,6,7,8-HpCDF	2.34e5	6.61e5	1.04	1.00	NO	1.0483	36.90	36.88	NO	1.001	1.000	46.2	96.4	NO
16	1,2,3,4,7,8,9-HxCDF	2.60e5	4.43e5	1.04	1.02	NO	1.2995	38.50	38.92	NO	1.000	1.000	48.6	97.1	NO
17	OCDF	5.49e5	1.15e6	0.89	0.88	NO	0.9482	41.49	41.50	NO	1.000	1.000	97.2	97.2	NO

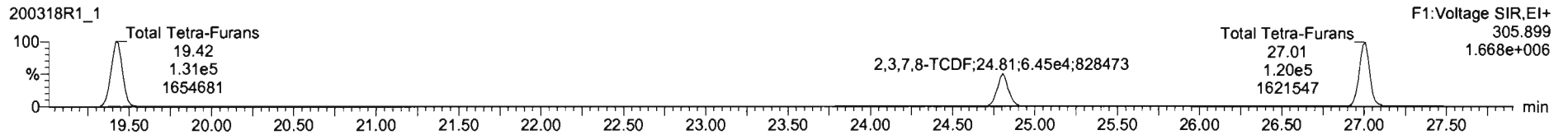
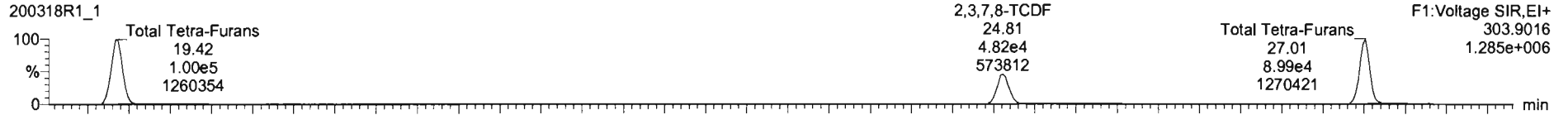


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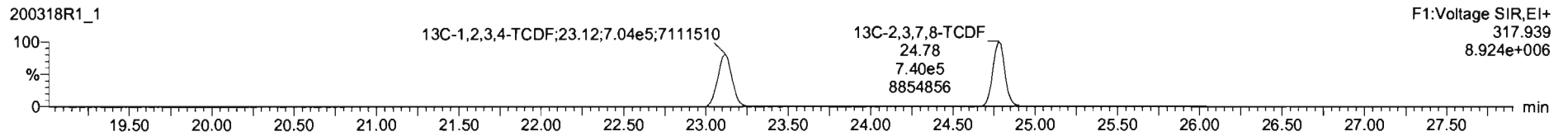
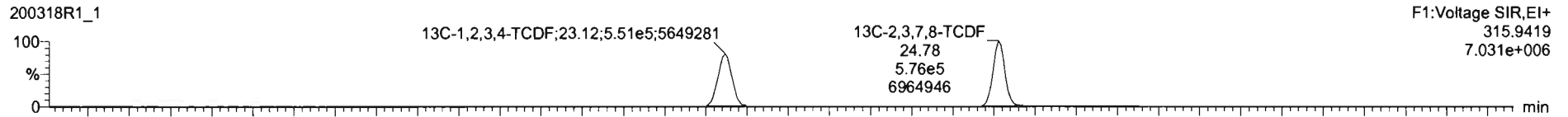
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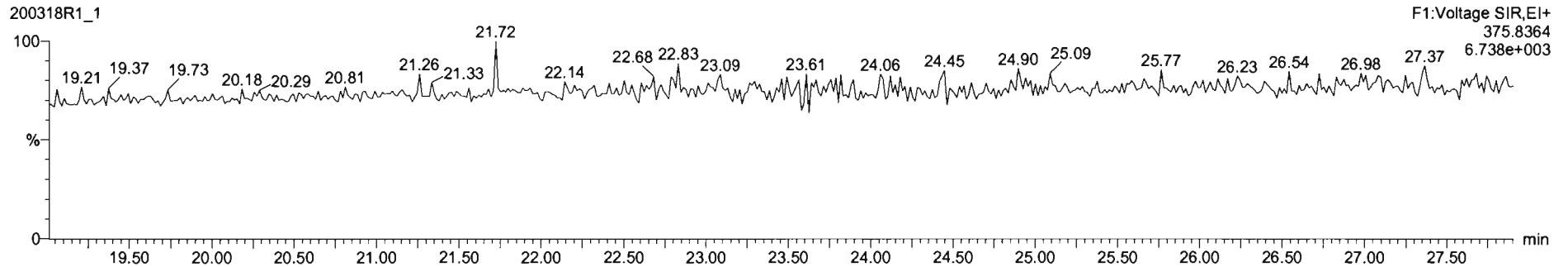
2,3,7,8-TCDF



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



DPE1



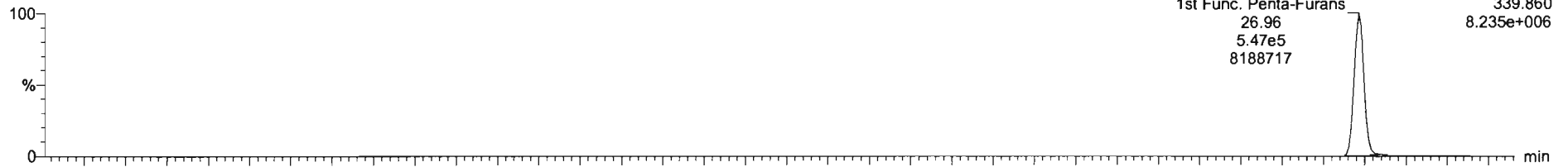
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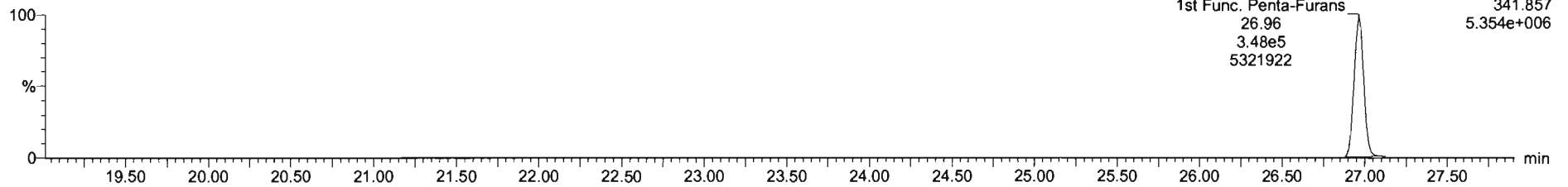
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1st Func. Penta-Furans

200318R1_1

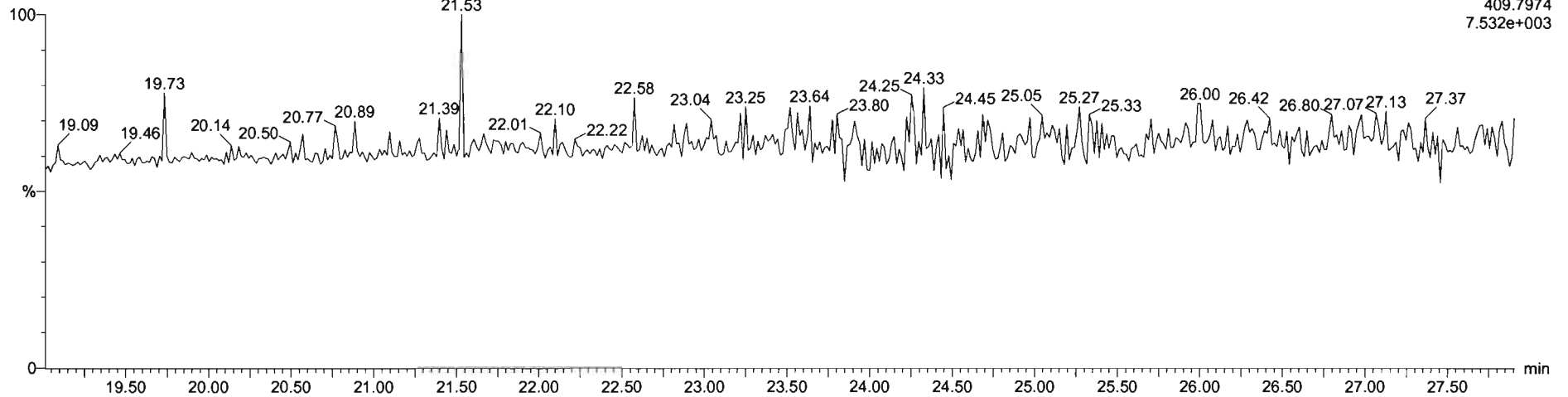


200318R1_1



DPE6

200318R1_1

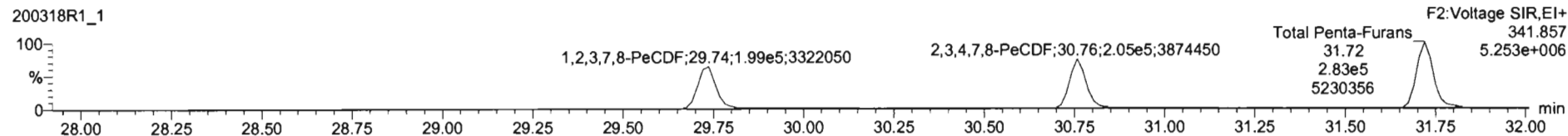
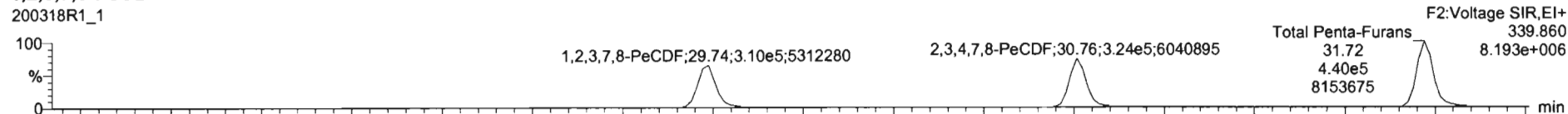


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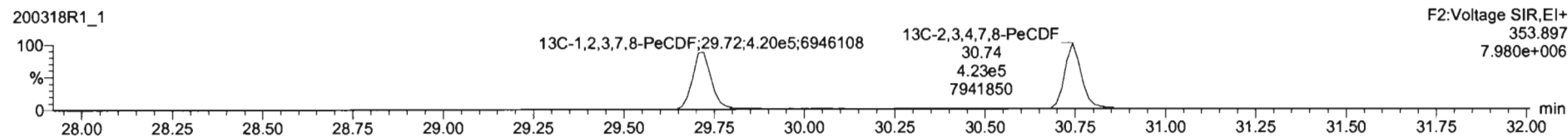
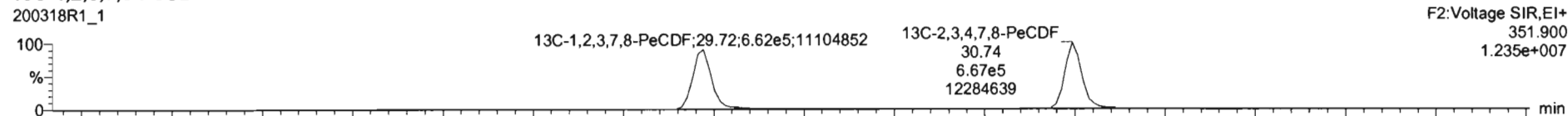
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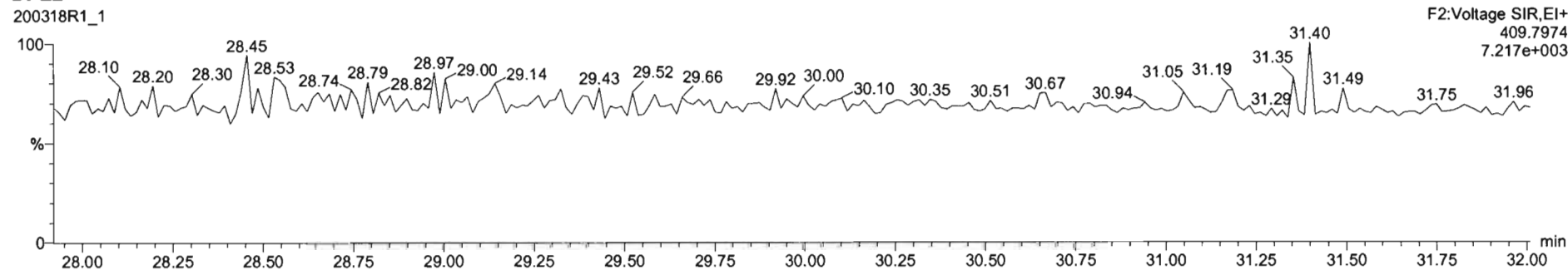
1,2,3,7,8-PeCDF



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



DPE2



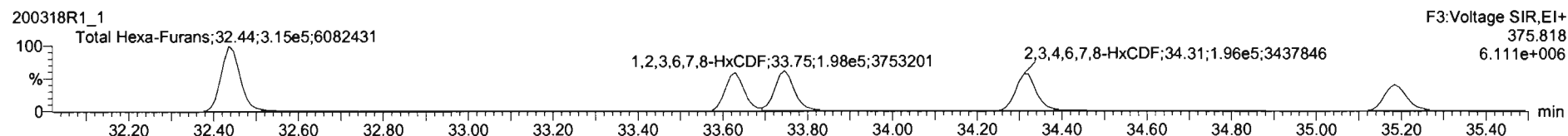
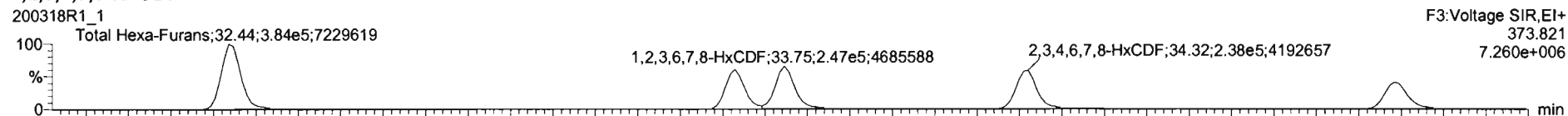
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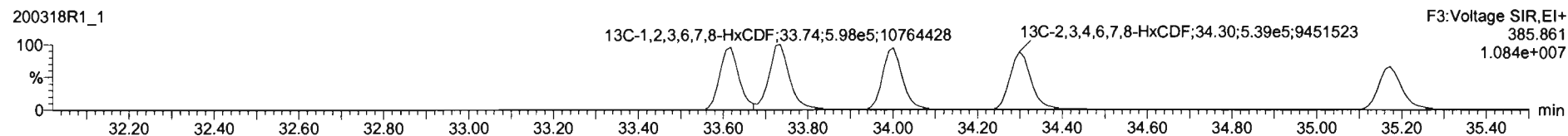
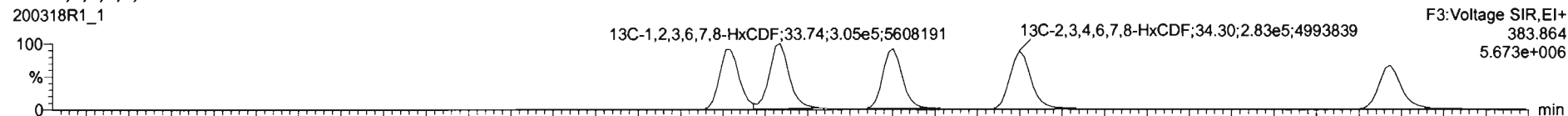
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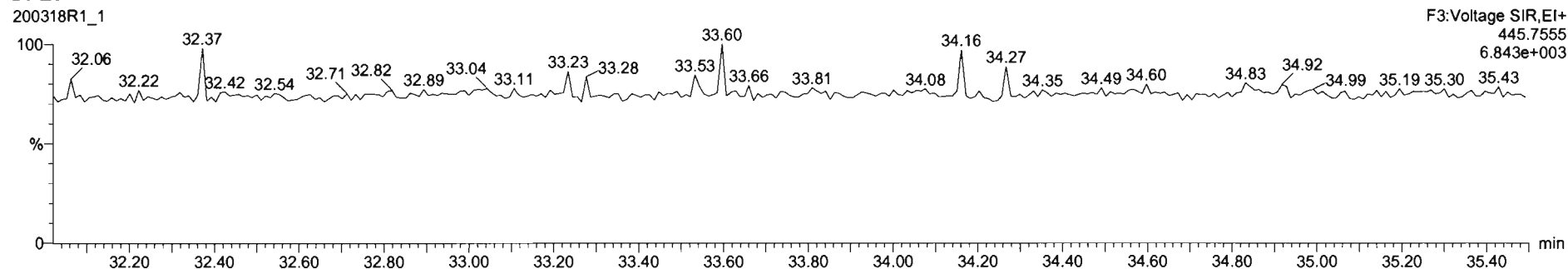
1,2,3,4,7,8-HxCDF



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



DPE3



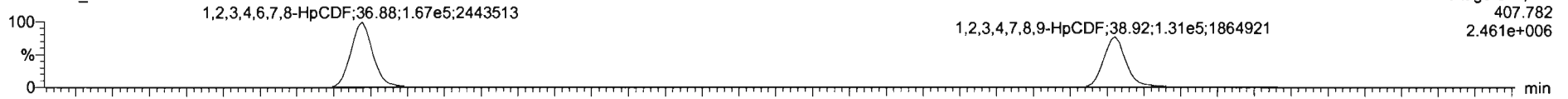
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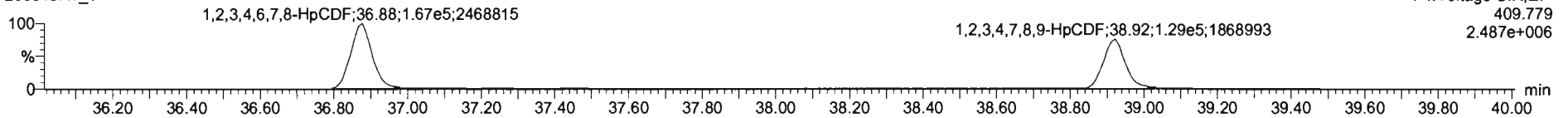
1,2,3,4,6,7,8-HpCDF

200318R1_1



F4:Voltage SIR,EI+
407.782
2.461e+006

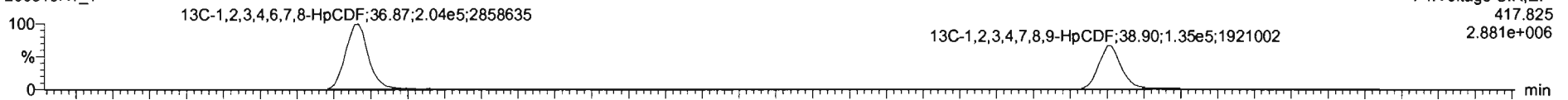
200318R1_1



F4:Voltage SIR,EI+
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2.487e+006

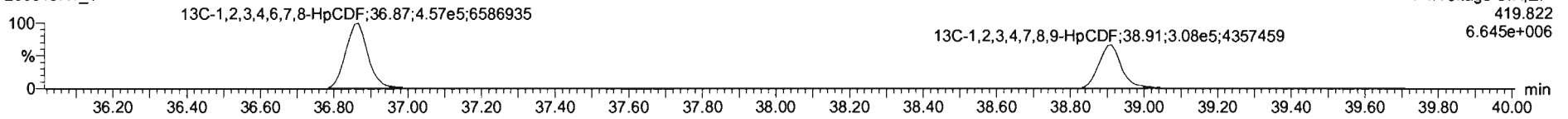
13C-1,2,3,4,6,7,8-HpCDF

200318R1_1



F4:Voltage SIR,EI+
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2.881e+006

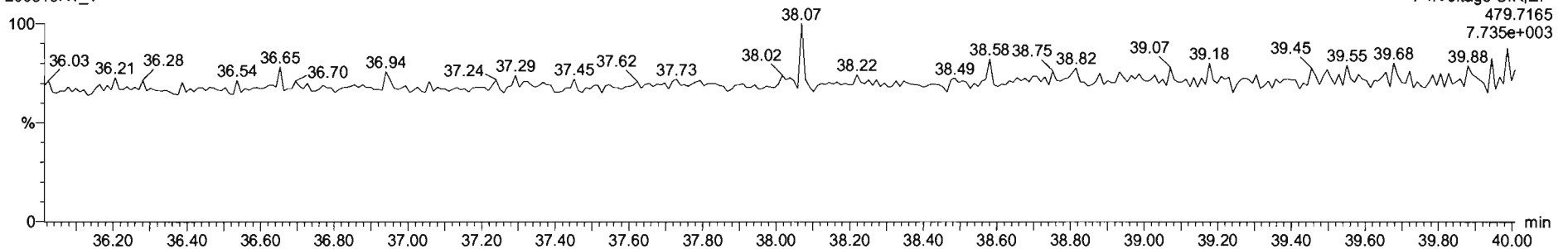
200318R1_1



F4:Voltage SIR,EI+
419.822
6.645e+006

DPE4

200318R1_1

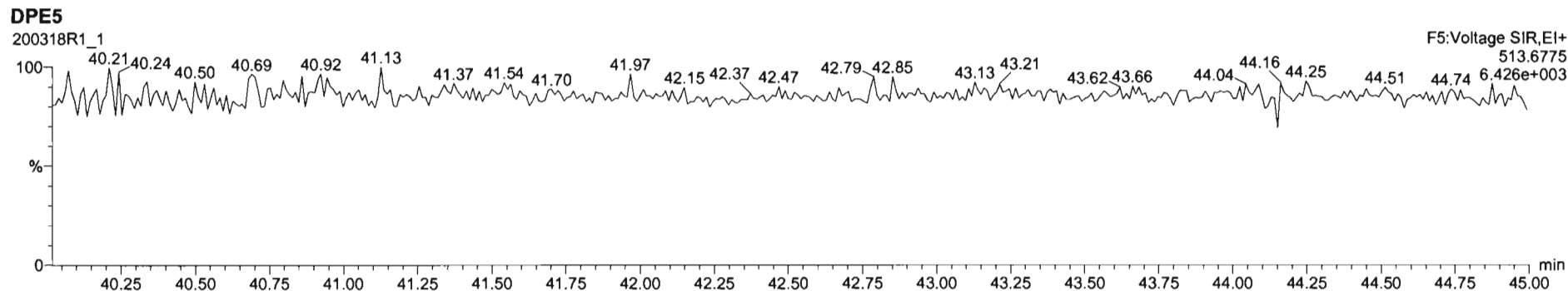
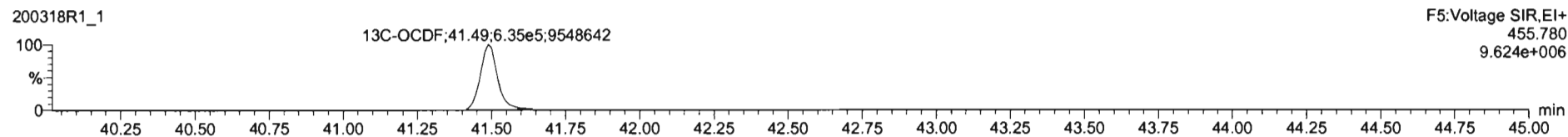
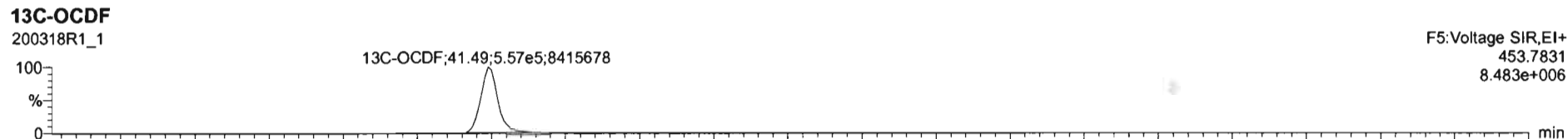
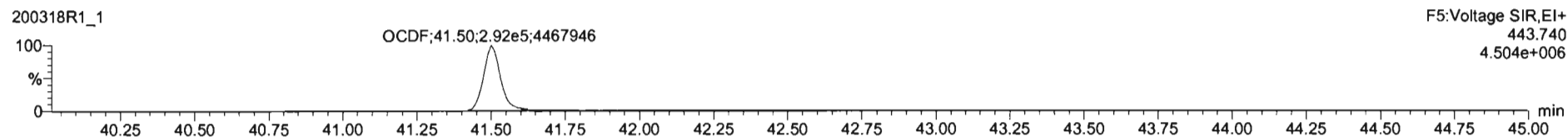
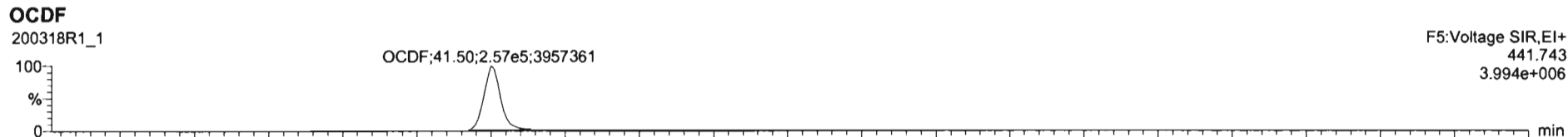


F4:Voltage SIR,EI+
479.7165
7.735e+003

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Printed: Wednesday, March 18, 2020 16:21:00 Pacific Daylight Time

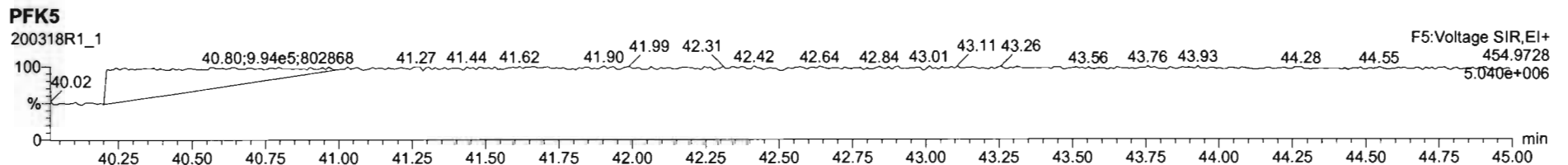
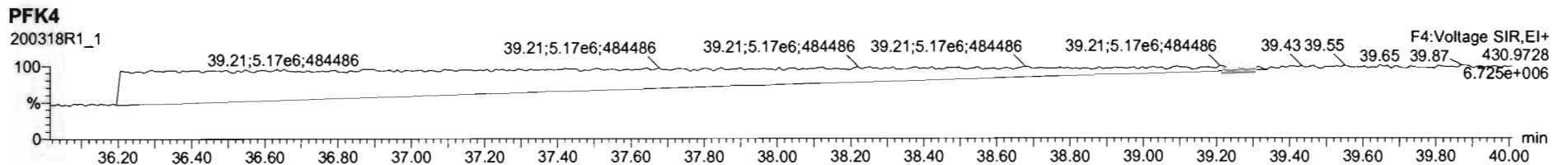
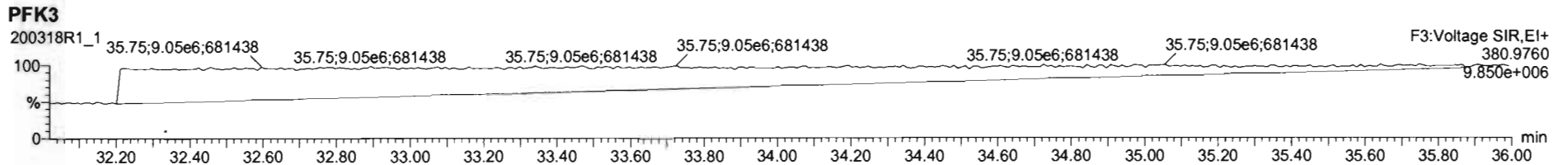
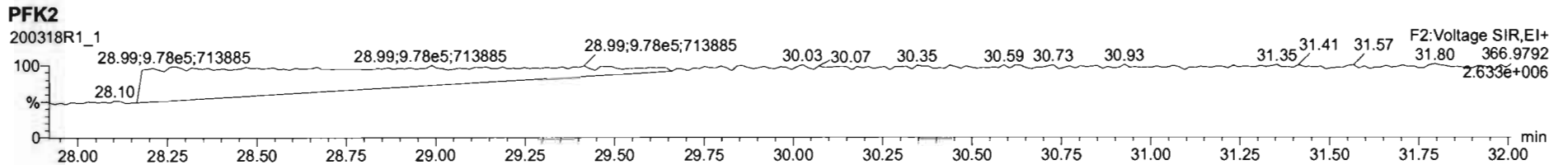
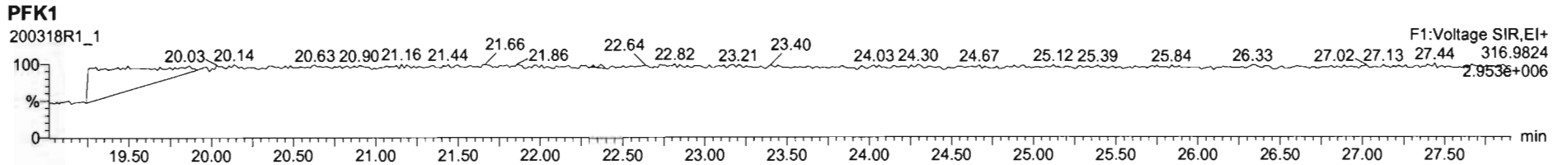
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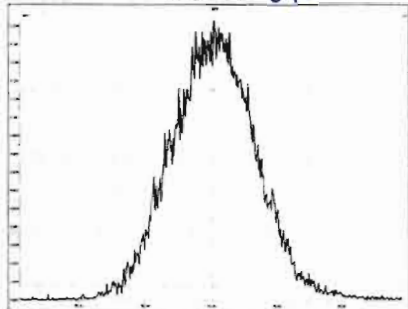


Resolution Check Report

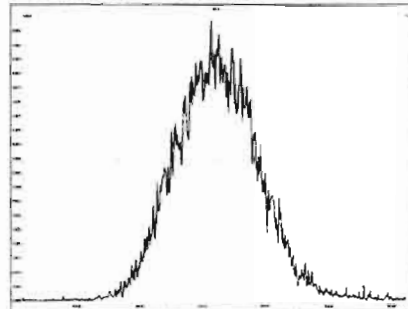
MassLynx 4.1 SCN815

Printed: Thursday, March 19, 2020 03:33:04 Pacific Daylight Time

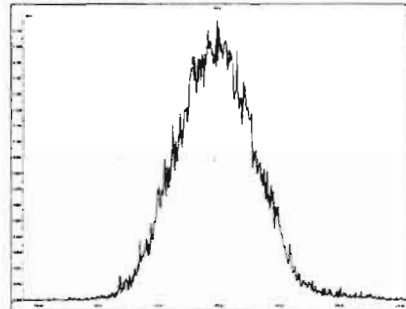
M 292.9824 R 9806 *ok*



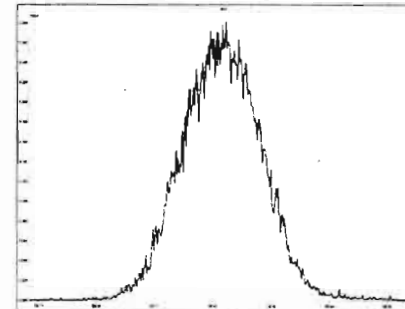
M 304.9824 R 10324



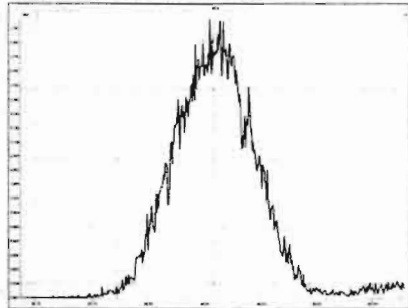
M 318.9792 R 10989



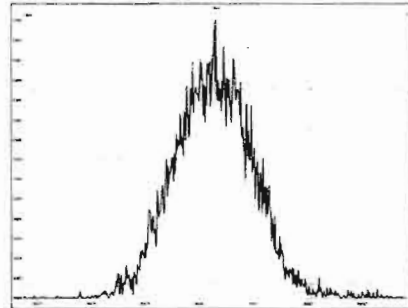
M 330.9792 R 10869



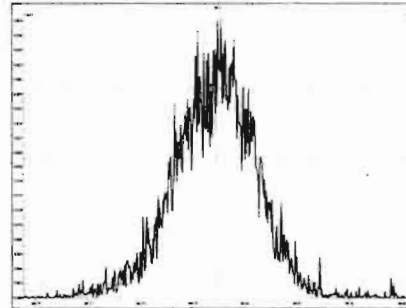
M 342.9792 R 10798



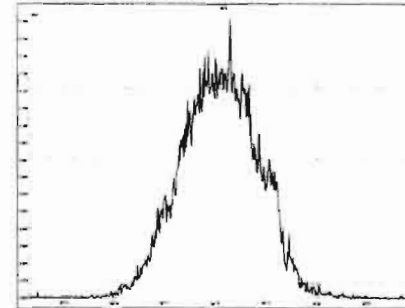
M 354.9792 R 11876



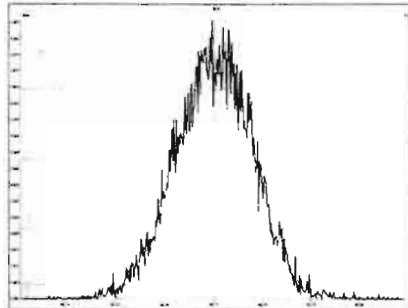
M 366.9792 R 11185



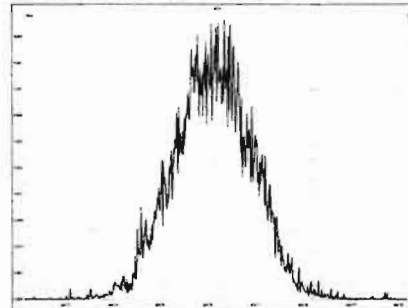
M 380.9760 R 11312



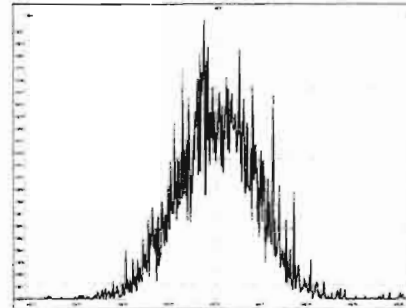
M 392.9760 R 11087



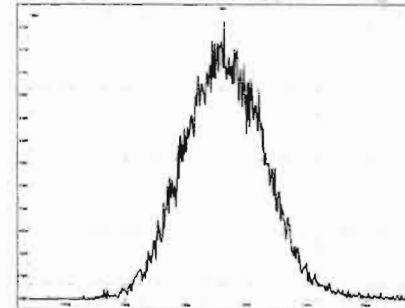
M 404.9760 R 11396



M 416.9760 R 12502

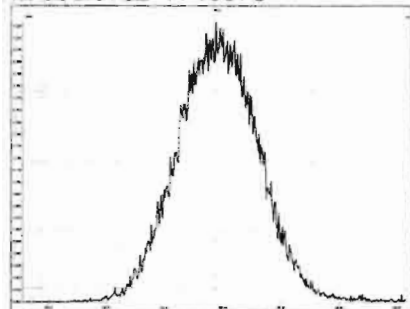


M 318.9792 R 10623

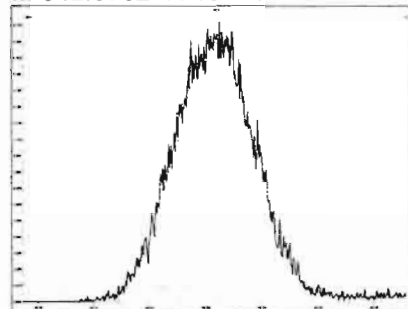


Printed: Thursday, March 19, 2020 03:33:04 Pacific Daylight Time

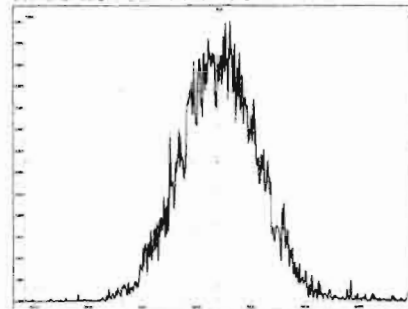
M 330.9792 R 10578



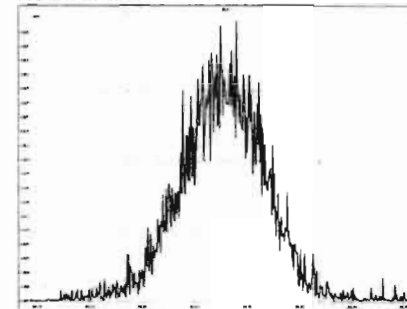
M 342.9792 R 10461



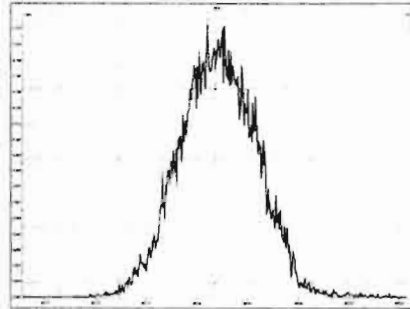
M 354.9792 R 11086



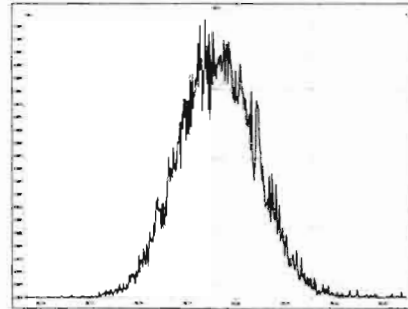
M 366.9792 R 11026



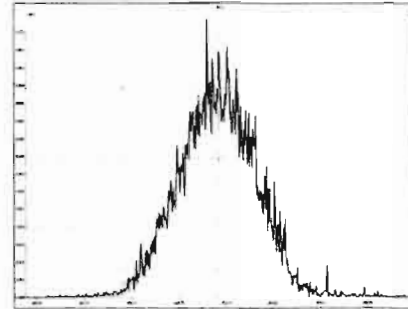
M 380.9760 R 11392



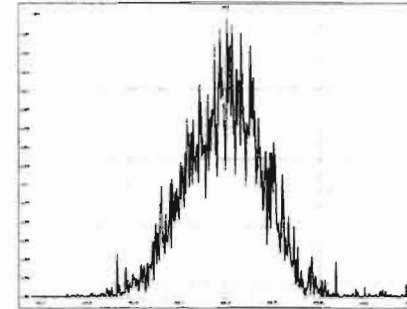
M 392.9760 R 10616



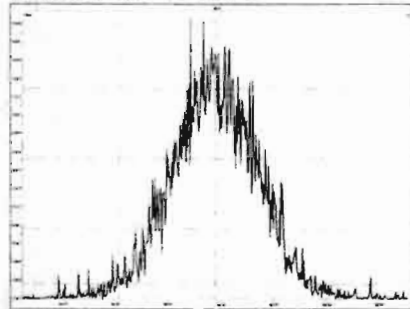
M 404.9760 R 11396



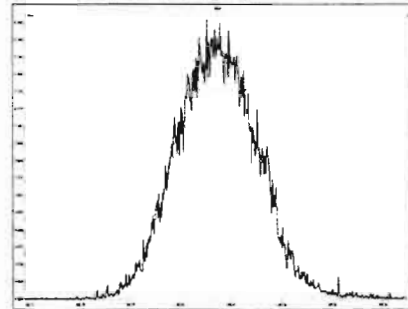
M 416.9760 R 12195



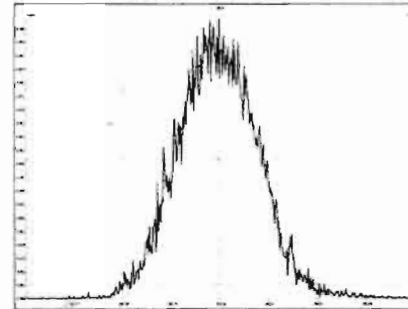
M 366.9792 R 10642



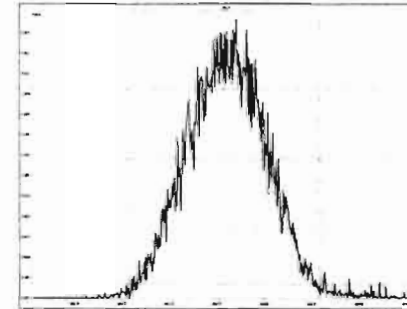
M 380.9760 R 10732



M 392.9760 R 10846

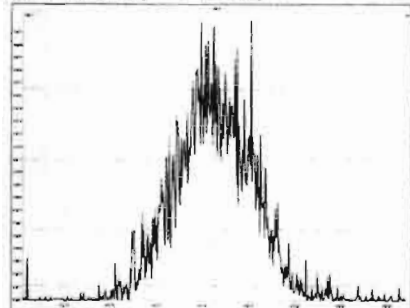


M 404.9760 R 10706

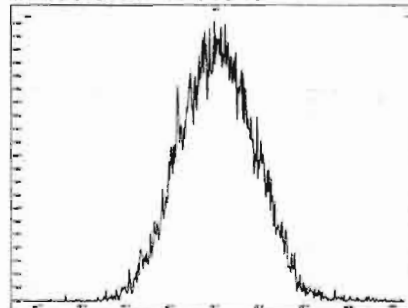


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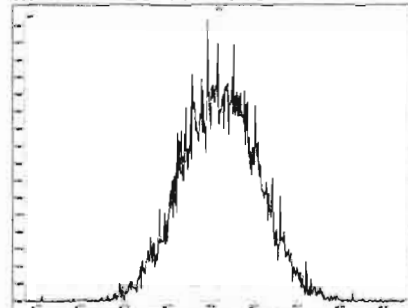
M 416.9760 R 12440



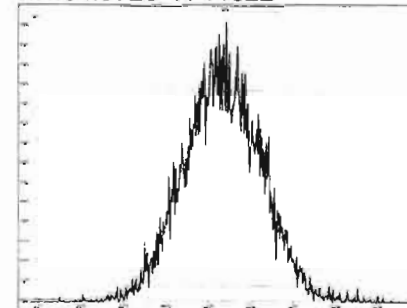
M 430.9728 R 11548



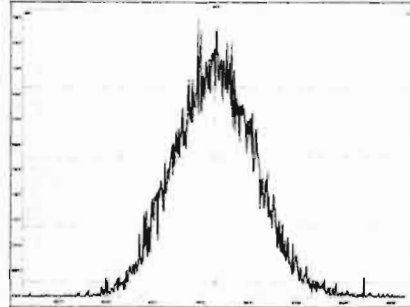
M 442.9728 R 11389



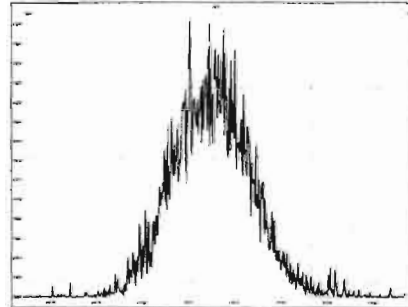
M 454.9728 R 11522



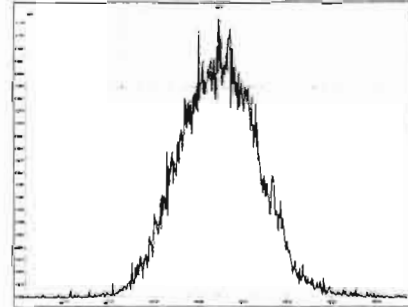
M 404.9760 R 10571



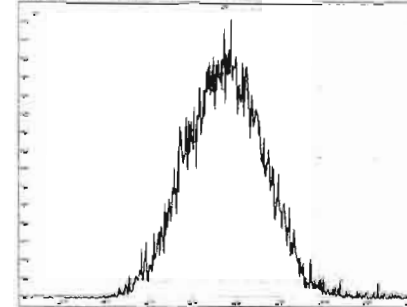
M 416.9760 R 12026



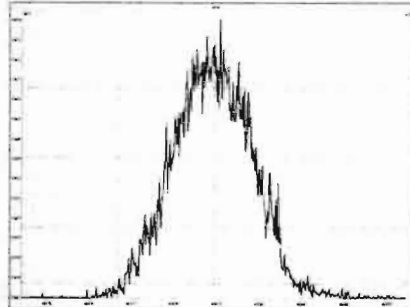
M 430.9728 R 11393



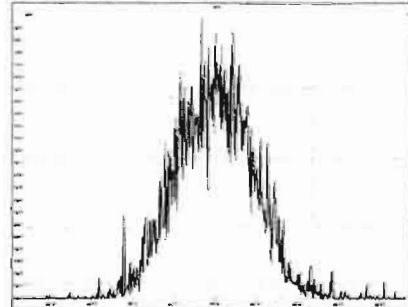
M 442.9728 R 11261



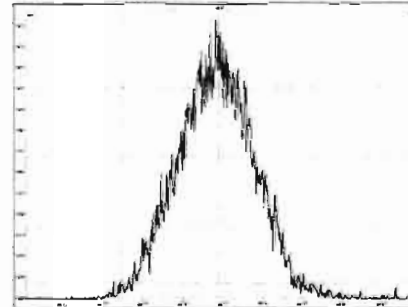
M 454.9728 R 11240



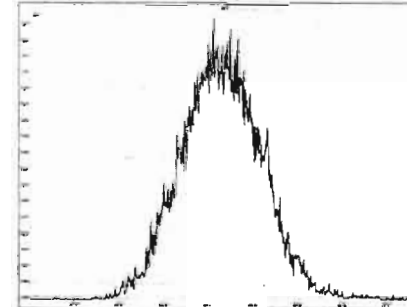
M 466.9728 R 12348



M 480.9696 R 12019

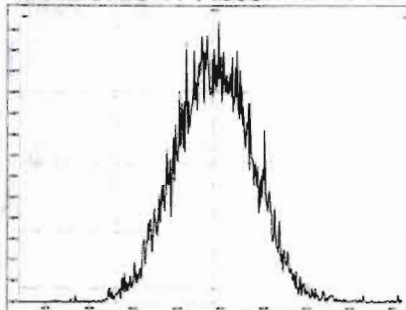


M 430.9728 R 10848

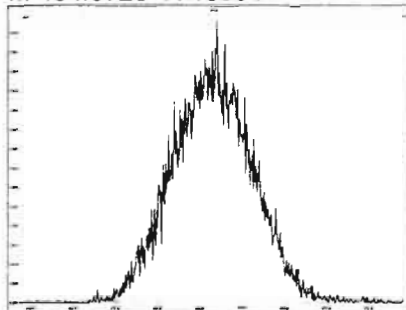


Printed: Thursday, March 19, 2020 03:33:04 Pacific Daylight Time

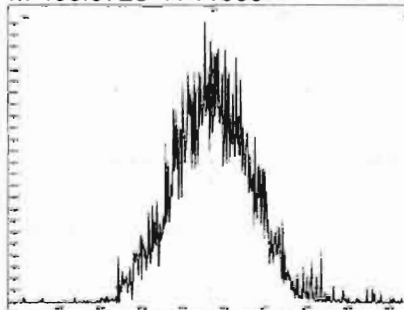
M 442.9728 R 11363



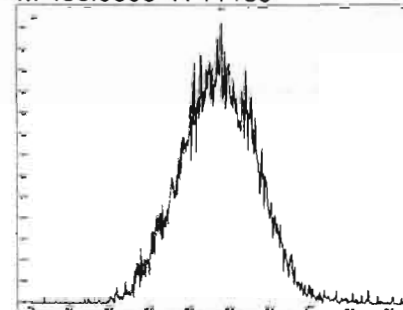
M 454.9728 R 10894



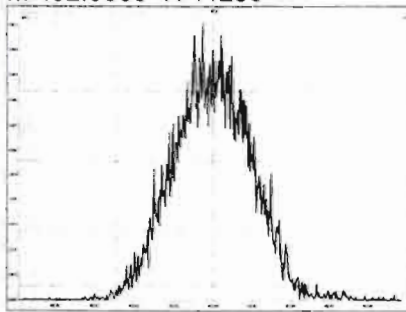
M 466.9728 R 11933



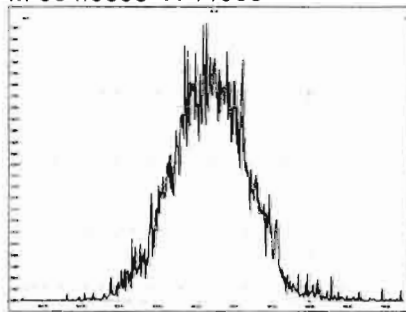
M 480.9696 R 11189



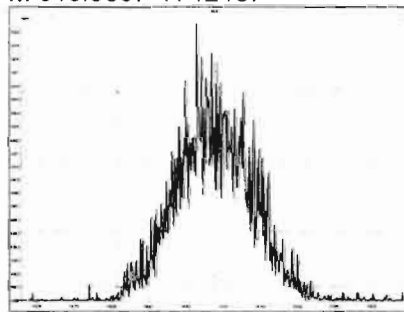
M 492.9696 R 11256



M 504.9696 R 11900



M 516.9697 R 12107



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200318R2-1

Reviewed By: CT 03/20/2020
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>GRB</u>	_____
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>↓</u>
- Samples within 12 hour clock?	<u>(Y)</u>	N
- Bottle position verified?		<u>GRB</u>

Mass resolution ≥

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

Intergrated peaks display correctly?

GC Break <20%

8280 CS1 End Standard:

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

Comments:

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-2.qld

Last Altered: Thursday, March 19, 2020 07:42:20 Pacific Daylight Time

Printed: Thursday, March 19, 2020 07:42:37 Pacific Daylight Time

GPB 02/19/2020

C703/20/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

ID: ST Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	8.95e4	9.81e5	0.80	NO	0.983	25.80	25.80	NO	1.001	1.001	9.2801	92.8	NO
2	2 1,2,3,7,8-PeCDD	3.18e5	7.29e5	0.62	NO	0.921	31.07	31.08	NO	1.001	1.001	47.332	94.7	NO
3	3 1,2,3,4,7,8-HxCDD	2.83e5	5.17e5	1.24	NO	1.13	34.47	34.47	NO	1.000	1.000	48.307	96.6	NO
4	4 1,2,3,6,7,8-HxCDD	2.94e5	6.35e5	1.25	NO	0.984	34.56	34.58	NO	1.000	1.001	47.050	94.1	NO
5	5 1,2,3,7,8,9-HxCDD	2.71e5	5.80e5	1.27	NO	0.967	34.83	34.84	NO	1.000	1.001	48.303	96.6	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.07e5	4.36e5	1.02	NO	1.01	38.26	38.26	NO	1.000	1.000	47.172	94.3	NO
7	7 OCDD	3.92e5	8.05e5	0.89	NO	1.05	41.32	41.33	NO	1.000	1.000	92.610	92.6	NO
8	8 2,3,7,8-TCDF	1.08e5	1.32e6	0.76	NO	0.915	24.79	24.79	NO	1.001	1.001	8.9625	89.6	NO
9	9 1,2,3,7,8-PeCDF	4.89e5	1.04e6	1.59	NO	0.959	29.73	29.72	NO	1.001	1.001	48.766	97.5	NO
10	10 2,3,4,7,8-PeCDF	4.92e5	1.03e6	1.59	NO	1.00	30.77	30.76	NO	1.001	1.000	47.838	95.7	NO
11	11 1,2,3,4,7,8-HxCDF	3.57e5	7.36e5	1.22	NO	1.04	33.61	33.62	NO	1.000	1.000	46.757	93.5	NO
12	12 1,2,3,6,7,8-HxCDF	3.95e5	8.07e5	1.23	NO	1.01	33.73	33.74	NO	1.000	1.000	48.330	96.7	NO
13	13 2,3,4,6,7,8-HxCDF	3.79e5	7.35e5	1.21	NO	1.09	34.32	34.31	NO	1.001	1.001	47.252	94.5	NO
14	14 1,2,3,7,8,9-HxCDF	2.98e5	6.08e5	1.22	NO	1.03	35.16	35.17	NO	1.000	1.000	47.670	95.3	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.77e5	5.62e5	1.01	NO	1.05	36.89	36.87	NO	1.001	1.000	47.040	94.1	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.13e5	3.75e5	1.00	NO	1.21	38.90	38.91	NO	1.000	1.000	47.030	94.1	NO
17	17 OCDF	4.34e5	9.69e5	0.89	NO	0.947	41.50	41.51	NO	1.000	1.000	94.561	94.6	NO
18	18 13C-2,3,7,8-TCDD	9.81e5	8.38e5	0.77	NO	1.18	25.77	25.77	NO	1.029	1.029	98.835	98.8	NO
19	19 13C-1,2,3,7,8-PeCDD	7.29e5	8.38e5	0.63	NO	0.864	30.96	31.05	NO	1.236	1.240	100.63	101	NO
20	20 13C-1,2,3,4,7,8-HxCDD	5.17e5	7.33e5	1.33	NO	0.754	34.46	34.46	NO	1.014	1.014	93.436	93.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.35e5	7.33e5	1.21	NO	0.925	34.57	34.56	NO	1.017	1.017	93.578	93.6	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.80e5	7.33e5	1.25	NO	0.829	34.83	34.82	NO	1.025	1.024	95.339	95.3	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.36e5	7.33e5	1.03	NO	0.598	38.29	38.25	NO	1.127	1.125	99.323	99.3	NO
24	24 13C-OCDD	8.05e5	7.33e5	0.90	NO	0.571	41.44	41.32	NO	1.219	1.216	192.22	96.1	NO
25	25 13C-2,3,7,8-TCDF	1.32e6	1.25e6	0.78	NO	1.09	24.79	24.76	NO	0.990	0.989	97.395	97.4	NO
26	26 13C-1,2,3,7,8-PeCDF	1.04e6	1.25e6	1.60	NO	0.876	29.63	29.71	NO	1.183	1.186	95.769	95.8	NO
27	27 13C-2,3,4,7,8-PeCDF	1.03e6	1.25e6	1.55	NO	0.844	30.64	30.74	NO	1.223	1.227	97.644	97.6	NO
28	28 13C-1,2,3,4,7,8-HxCDF	7.36e5	7.33e5	0.50	NO	1.00	33.61	33.61	NO	0.989	0.989	100.37	100	NO
29	29 13C-1,2,3,6,7,8-HxCDF	8.07e5	7.33e5	0.51	NO	1.12	33.72	33.72	NO	0.992	0.992	98.413	98.4	NO
30	30 13C-2,3,4,6,7,8-HxCDF	7.35e5	7.33e5	0.52	NO	1.04	34.30	34.29	NO	1.009	1.009	96.869	96.9	NO
31	31 13C-1,2,3,7,8,9-HxCDF	6.08e5	7.33e5	0.51	NO	0.873	35.17	35.16	NO	1.035	1.034	94.956	95.0	NO

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-2.qld

Last Altered: Thursday, March 19, 2020 07:42:20 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:42:37 Pacific Daylight Time

Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	5.62e5	7.33e5	0.44	NO	0.771	36.89	36.86	NO	1.085	1.084	99.435	99.4	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.75e5	7.33e5	0.44	NO	0.519	38.98	38.90	NO	1.147	1.144	98.486	98.5	NO
34	34 13C-OCDF	9.69e5	7.33e5	0.88	NO	0.696	41.62	41.50	NO	1.225	1.221	189.77	94.9	NO
35	35 37Cl-2,3,7,8-TCDD	9.32e4	8.38e5			1.17	25.78	25.78	NO	1.029	1.029	9.4712	94.7	NO
36	36 13C-1,2,3,4-TCDD	8.38e5	8.38e5	0.79	NO	1.00	25.05	25.05	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.25e6	1.25e6	0.78	NO	1.00	23.19	23.10	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	7.33e5	7.33e5	0.51	NO	1.00	33.88	33.99	NO	1.000	1.000	100.00	100	YES <i>ok</i>
39	39 Total Tetra-Dioxins		9.81e5			0.983	24.62		NO	0.000		80.278		NO
40	40 Total Penta-Dioxins		7.29e5			0.921	29.96		NO	0.000		210.81		NO
41	41 Total Hexa-Dioxins		0.00e0			0.984	33.63		NO	0.000		240.25		NO
42	42 Total Hepta-Dioxins		4.36e5			1.01	37.64		NO	0.000		128.81		NO
43	43 Total Tetra-Furans		1.32e6			0.915	23.61		NO	0.000		45.287		NO
44	44 1st Func. Penta-Furans		0.00e0			0.959	27.09		NO	0.000		88.593		NO
45	45 Total Penta-Furans		0.00e0			0.959	29.27		NO	0.000		166.26		NO
46	46 Total Hexa-Furans		0.00e0			1.09	33.56		NO	0.000		271.97		NO
47	47 Total Hepta-Furans		0.00e0			1.05	37.83		NO	0.000		94.070		NO

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Thursday, March 19, 2020 3:30:12 PM Pacific Daylight Time

Printed: Thursday, March 19, 2020 3:30:28 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

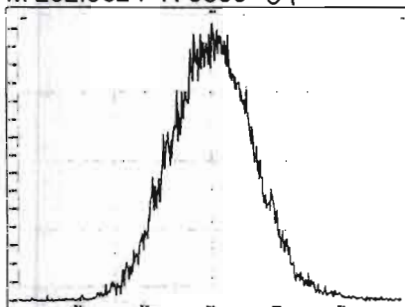
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

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

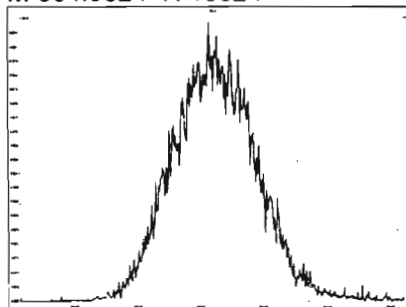
	Name	ID	Acq.Date	Acq.Time
1	200318R2_1	SOLVENT BLANK	19-Mar-20	03:33:06
2	200318R2_2	ST200318R2_1 1613 CS3 19L2305	19-Mar-20	04:19:20
3	200318R2_3	SOLVENT BLANK	19-Mar-20	05:06:59
4	200318R2_4	1904161-16RE5@2X PDI-066SC-A-06-07-191...	19-Mar-20	05:54:38
5	200318R2_5	1903827-05RE3@2X PDI-062SC-B-00-02-191...	19-Mar-20	06:42:16
6	200318R2_6	1903654-05RE3 PDI-075SC-B-00-02-191013 ...	19-Mar-20	07:29:56
7	200318R2_7	1903654-08RE3 PDI-075SC-B-06-08-191013 ...	19-Mar-20	08:17:35
8	200318R2_8	1903654-11RE3 PDI-076SC-B-05-07-191013 ...	19-Mar-20	09:05:12
9	200318R2_9	2000440-01 PDI-066SC-A-09-10-191011 15.89	19-Mar-20	09:52:51
10	200318R2_10	2000440-02 PDI-066SC-A-10-11-191011 16.61	19-Mar-20	10:40:29
11	200318R2_11	2000440-03 PDI-066SC-A-11-12-191011 15.15	19-Mar-20	11:28:07
12	200318R2_12	2000440-04 PDI-066SC-A-12-13-191011 15.88	19-Mar-20	12:15:47
13	200318R2_13	B0C0038-DUP1 Duplicate 15.89	19-Mar-20	13:03:26
14	200318R2_14	2000440-05 PDI-066SC-A-13-14-191011 17.4	19-Mar-20	13:51:04
15	200318R2_15	2000440-06 PDI-066SC-A-14-15-191011 16.24	19-Mar-20	14:38:44

Printed: Thursday, March 19, 2020 03:33:04 Pacific Daylight Time

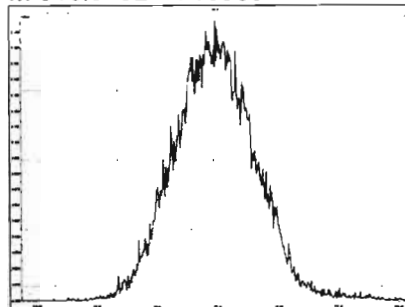
M 292.9824 R 9806 *ok*



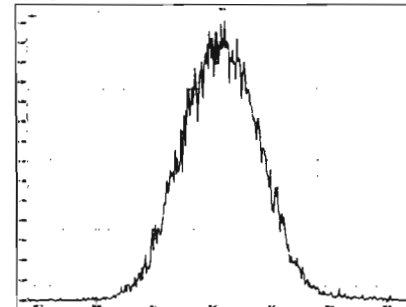
M 304.9824 R 10324



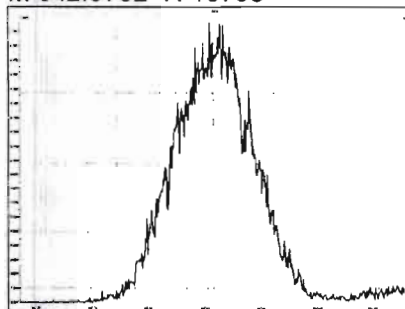
M 318.9792 R 10989



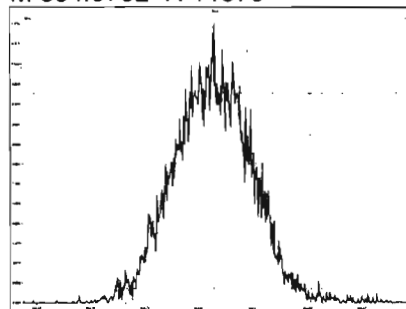
M 330.9792 R 10869



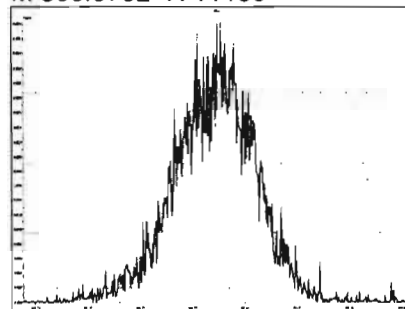
M 342.9792 R 10798



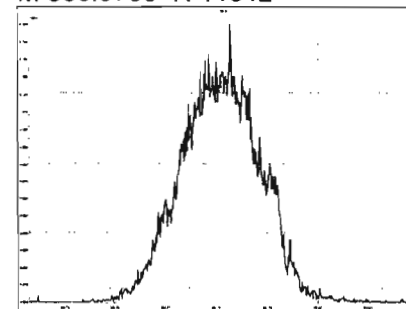
M 354.9792 R 11876



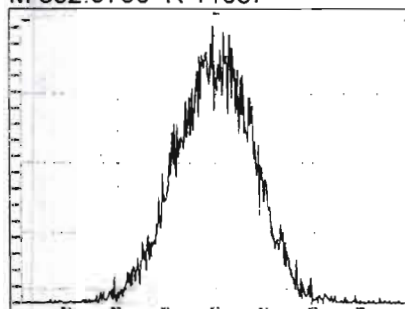
M 366.9792 R 11185



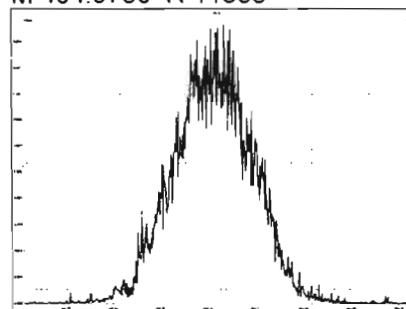
M 380.9760 R 11312



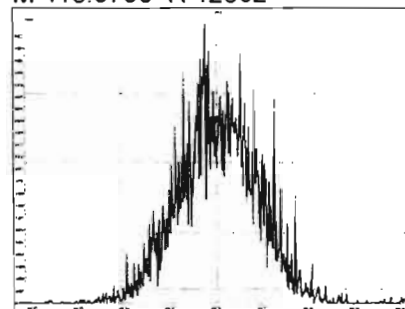
M 392.9760 R 11087



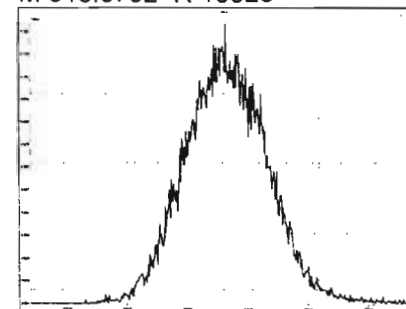
M 404.9760 R 11396



M 416.9760 R 12502

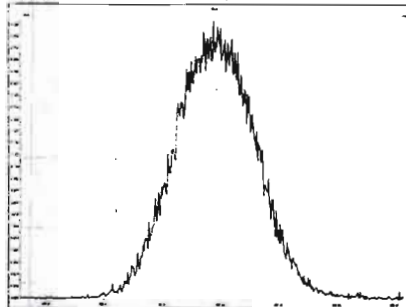


M 318.9792 R 10623

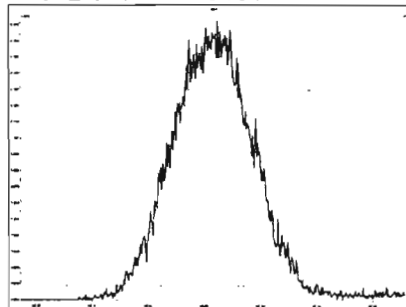


Printed: Thursday, March 19, 2020 03:33:04 Pacific Daylight Time

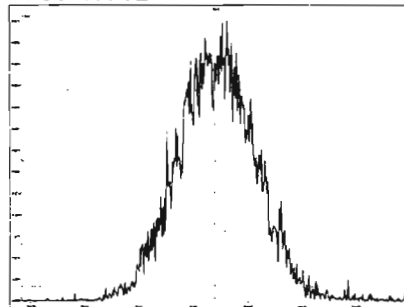
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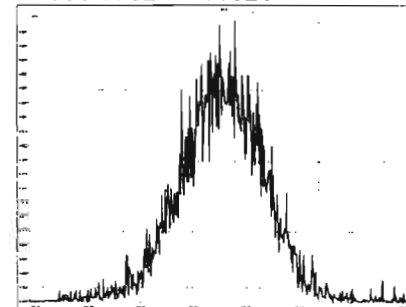
M 342.9792 R 10461



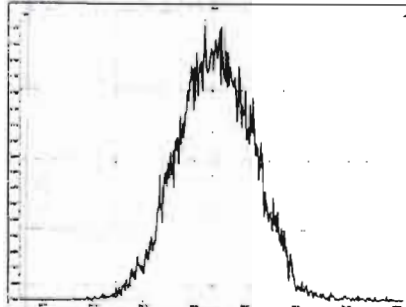
M 354.9792 R 11086



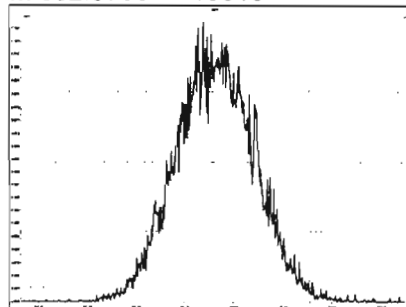
M 366.9792 R 11026



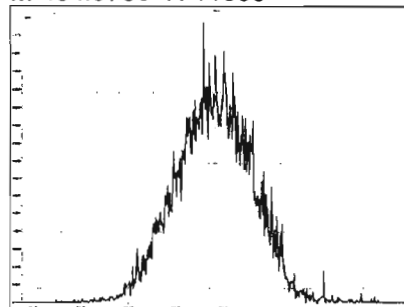
M 380.9760 R 11392



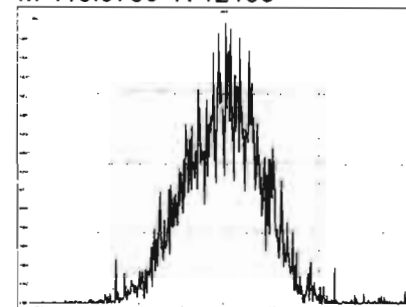
M 392.9760 R 10616



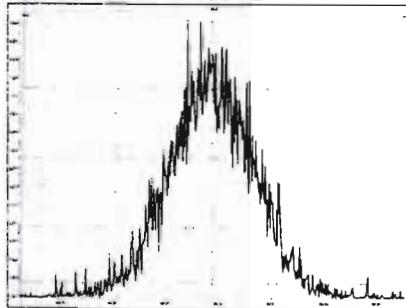
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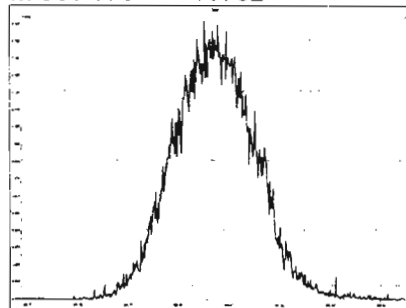
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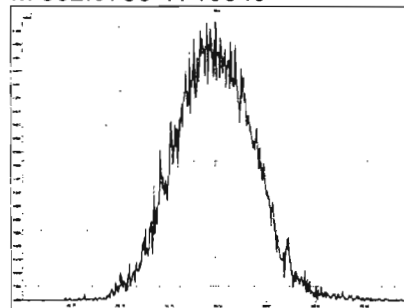
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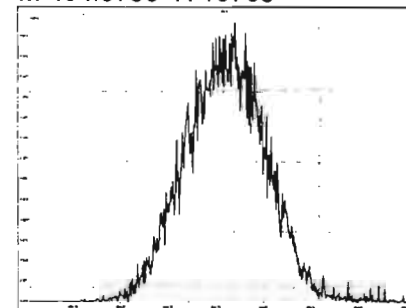
M 380.9760 R 10732



M 392.9760 R 10846

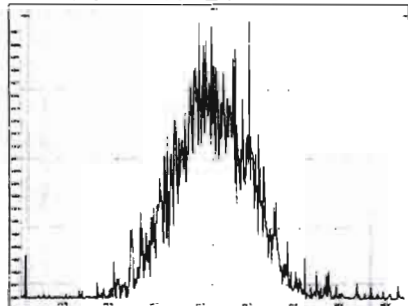


M 404.9760 R 10706

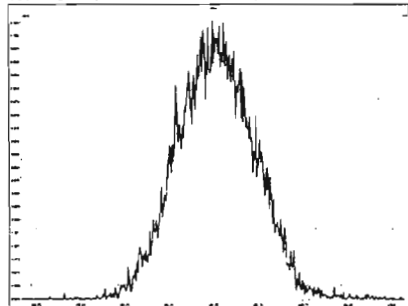


Printed: Thursday, March 19, 2020 03:33:04 Pacific Daylight Time

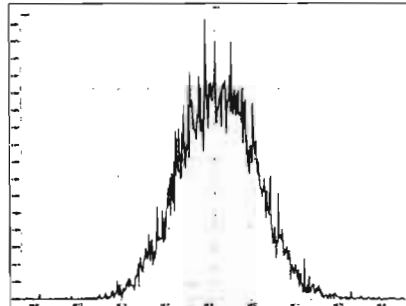
M 416.9760 R 12440



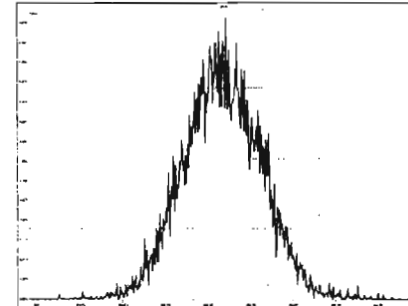
M 430.9728 R 11548



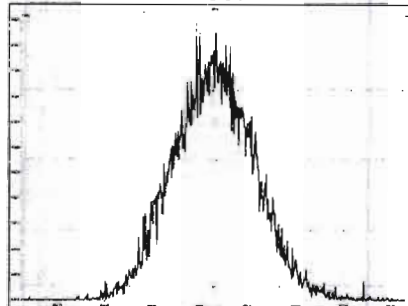
M 442.9728 R 11389



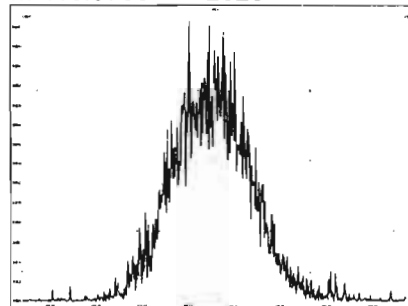
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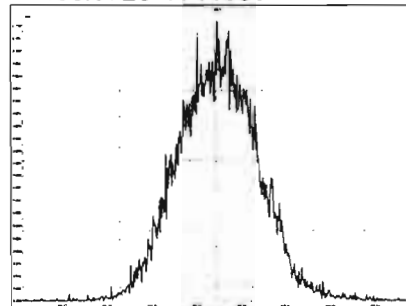
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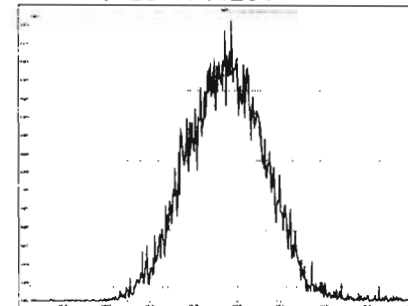
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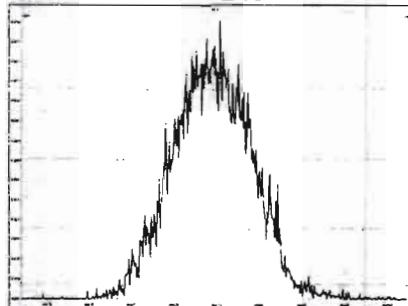
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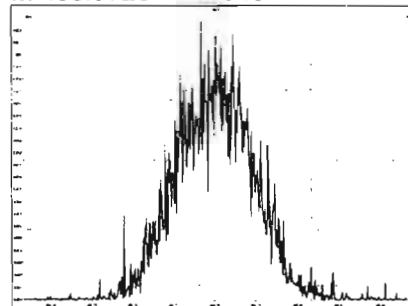
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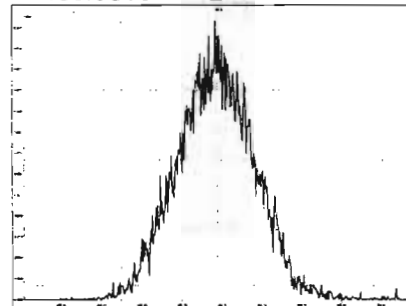
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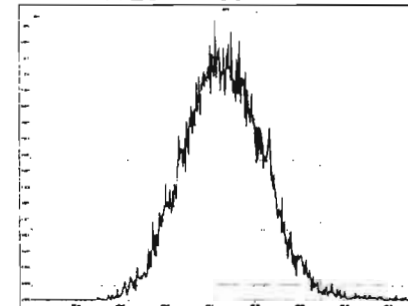
M 466.9728 R 12348



M 480.9696 R 12019

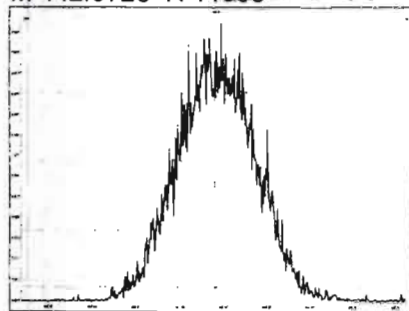


M 430.9728 R 10848

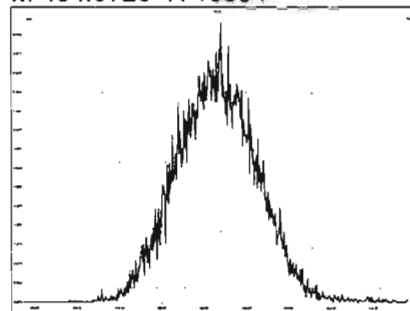


Printed: Thursday, March 19, 2020 03:33:04 Pacific Daylight Time

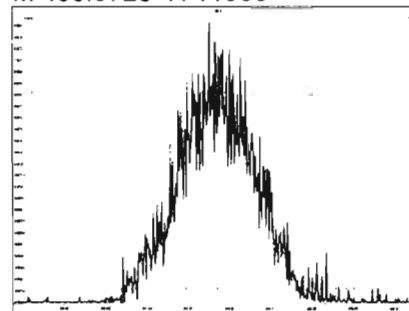
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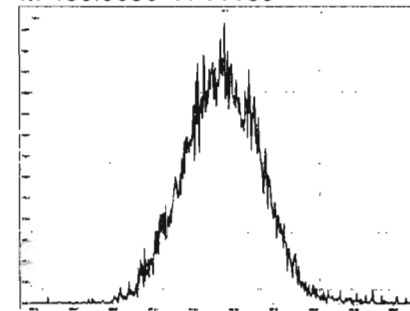
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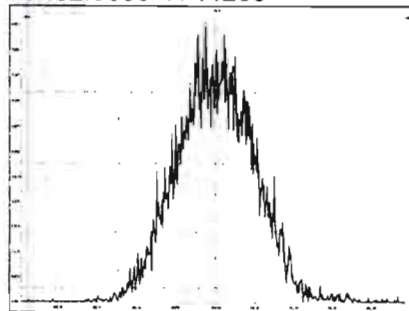
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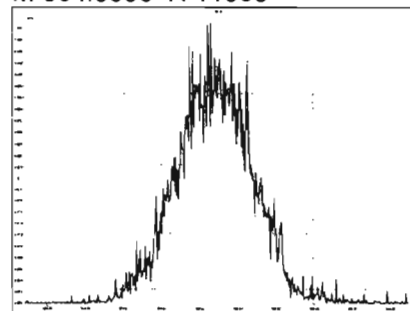
M 480.9696 R 11189



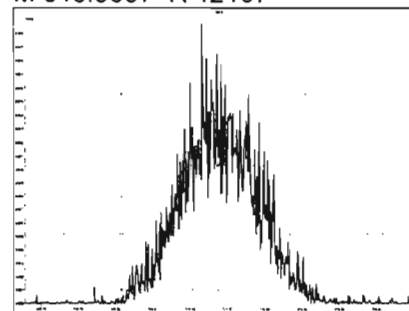
M 492.9696 R 11256



M 504.9696 R 11900



M 516.9697 R 12107



Dataset: U:\VG12.PRO\Results\200318R2\200318R2-CPSM.qld

Last Altered: Thursday, March 19, 2020 07:43:36 Pacific Daylight Time

Printed: Thursday, March 19, 2020 07:44:06 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.42
2	2 1,2,8,9-TCDD (Last)	26.84
3	3 1,2,4,7,9-PeCDD (First)	28.76
4	4 1,2,3,8,9-PeCDD (Last)	31.46
5	5 1,2,4,6,7,9-HxCDD (First)	33.00
6	6 1,2,3,7,8,9-HxCDD (Last)	34.84
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.25
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.26
9	9 1,3,6,8-TCDF (First)	19.40
10	10 1,2,8,9-TCDF (Last)	26.99
11	11 1,3,4,6,8-PeCDF (First)	26.95
12	12 1,2,3,8,9-PeCDF (Last)	31.72
13	13 1,2,3,4,6,8-HxCDF (First)	32.44
14	14 1,2,3,7,8,9-HxCDF (Last)	35.17
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.87
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.91

Dataset: U:\VG12.PRO\Results\200318R2\200318R2-CPSM.qld

Last Altered: Thursday, March 19, 2020 07:43:36 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:44:06 Pacific Daylight Time

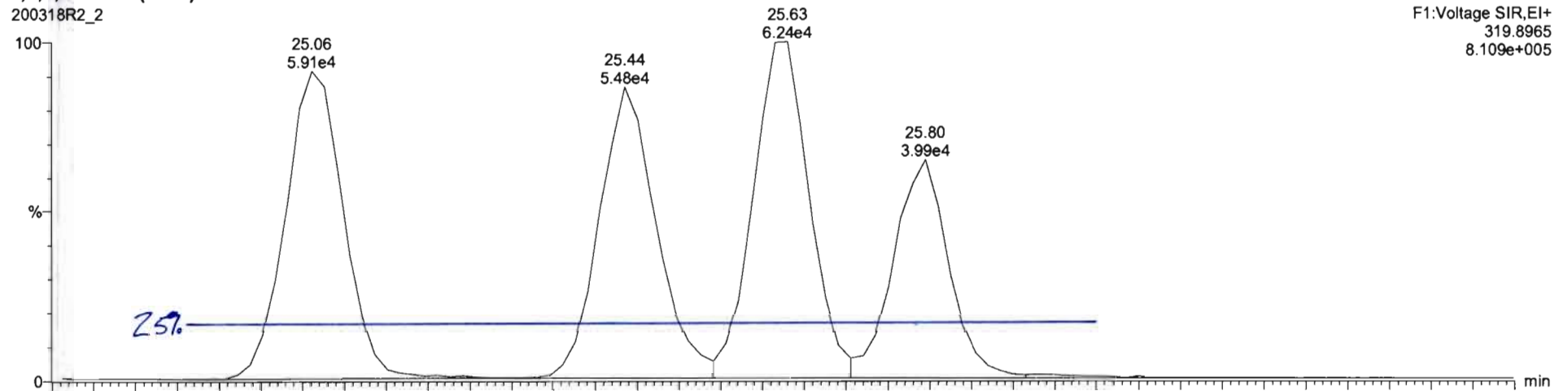
GRB 03/19/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

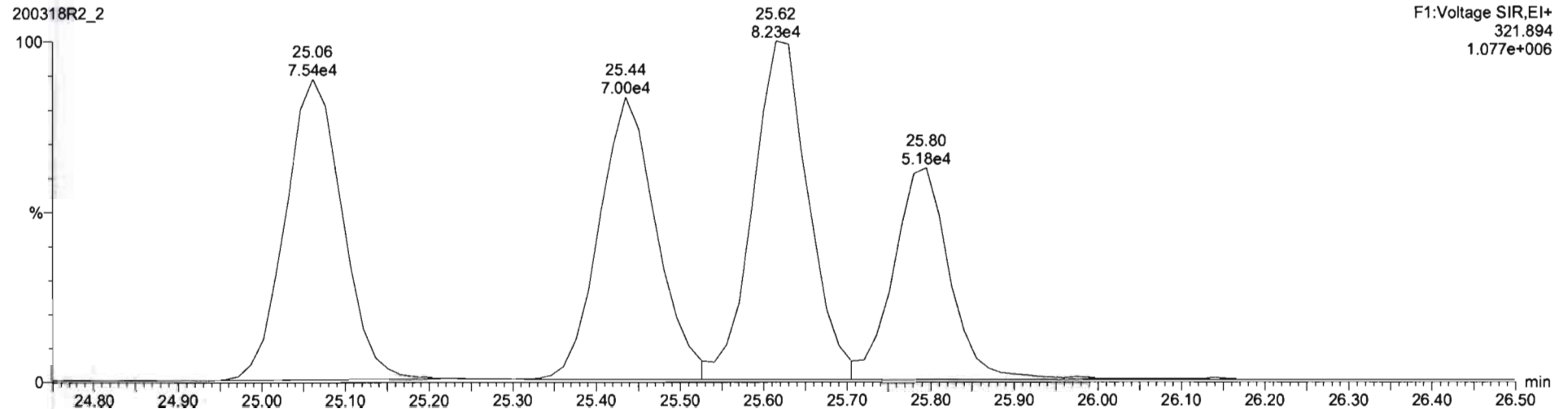
Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200318R2_2



200318R2_2



Dataset: Untitled

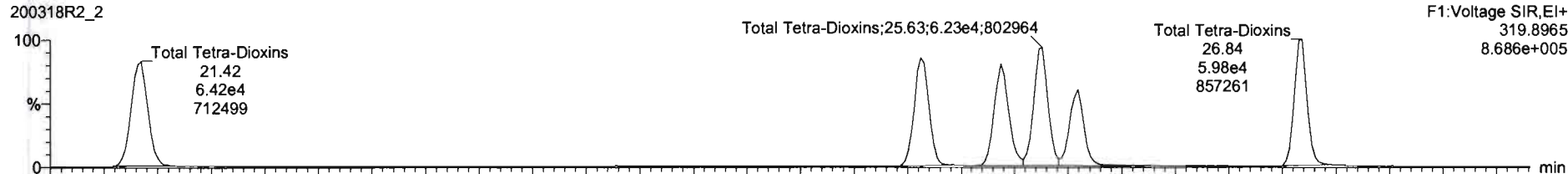
Last Altered: Thursday, March 19, 2020 07:42:46 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

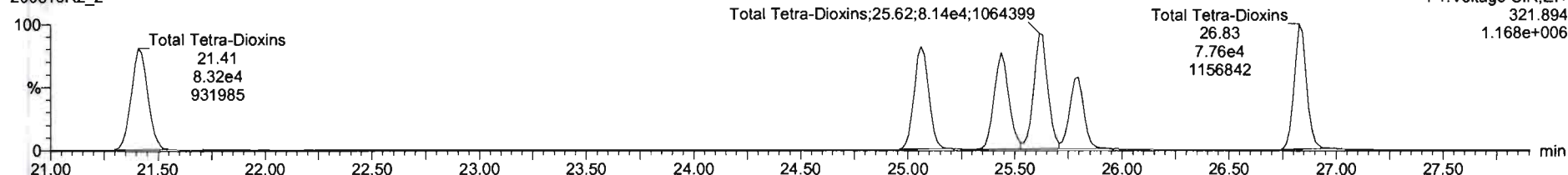
Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200318R2_2

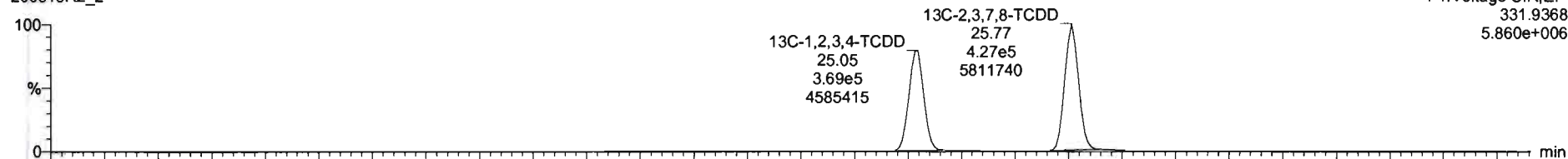


200318R2_2

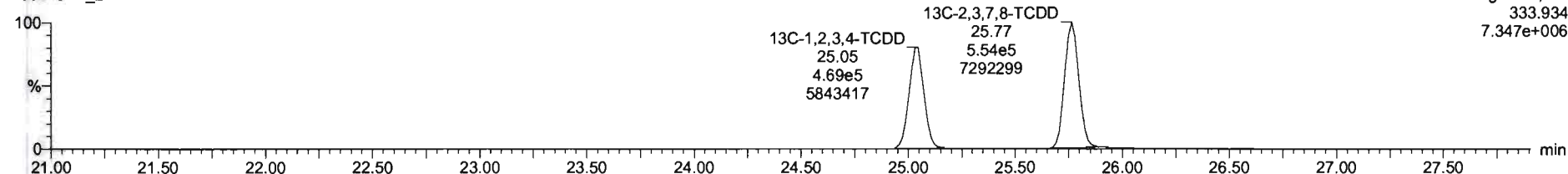


13C-2,3,7,8-TCDD

200318R2_2



200318R2_2



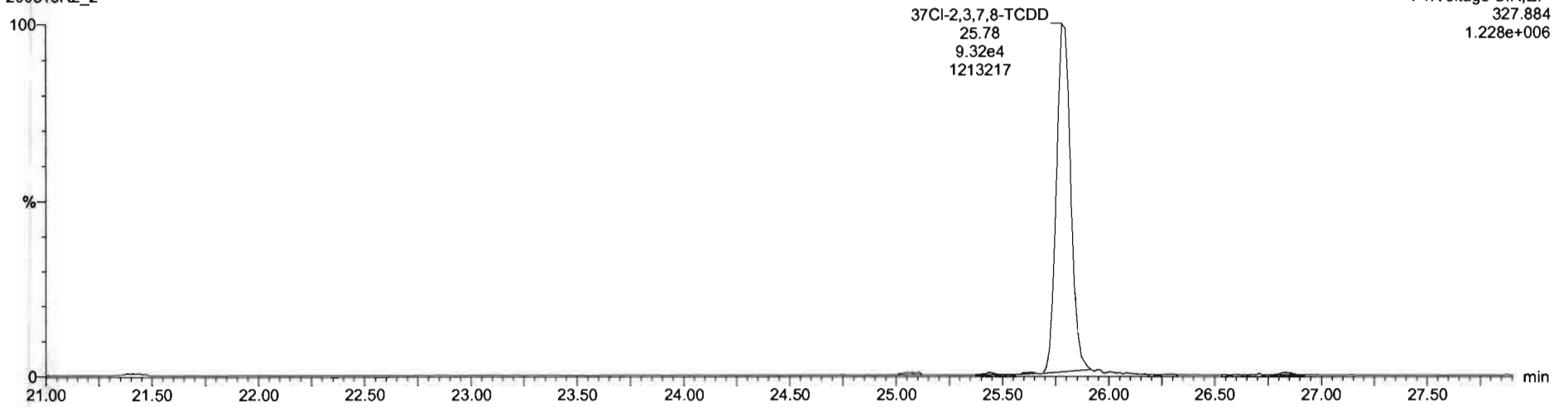
Dataset: Untitled

Last Altered: Thursday, March 19, 2020 07:42:46 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

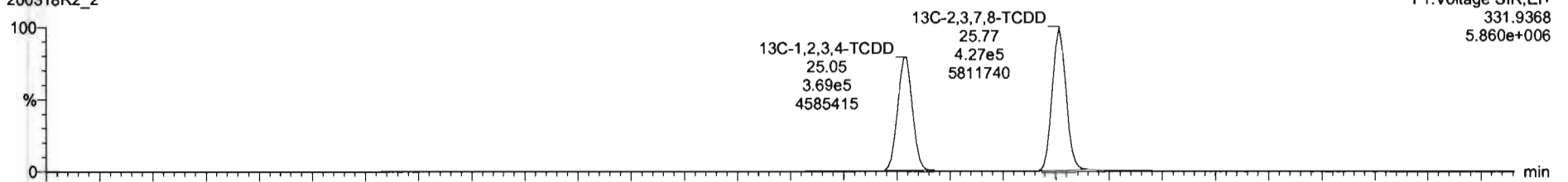
37Cl-2,3,7,8-TCDD

200318R2_2

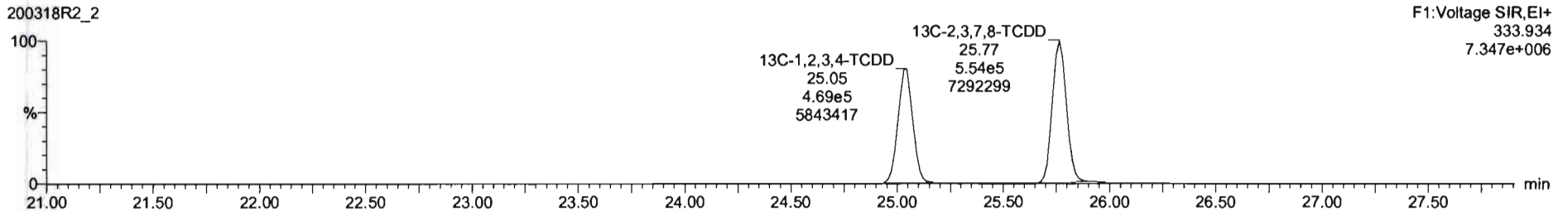


13C-1,2,3,4-TCDD

200318R2_2



200318R2_2



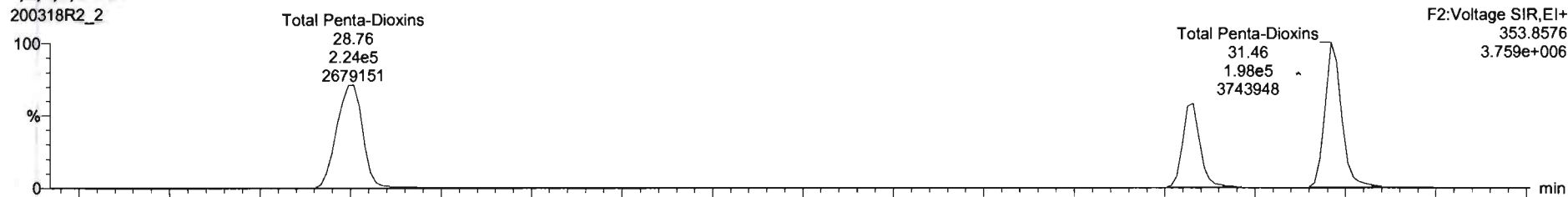
Dataset: Untitled

Last Altered: Thursday, March 19, 2020 07:42:46 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

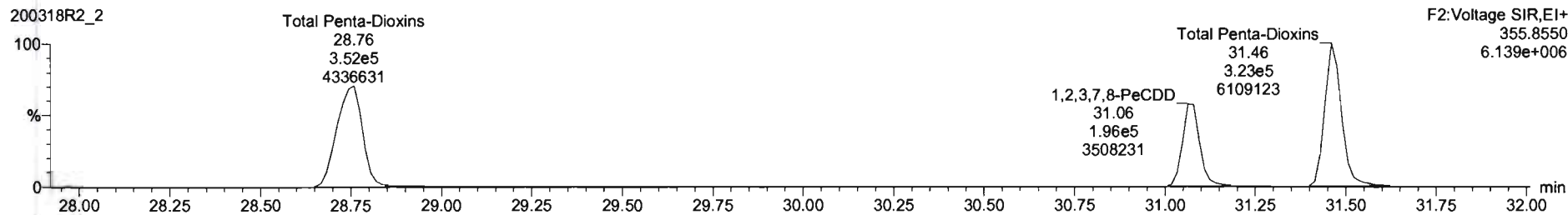
Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200318R2_2

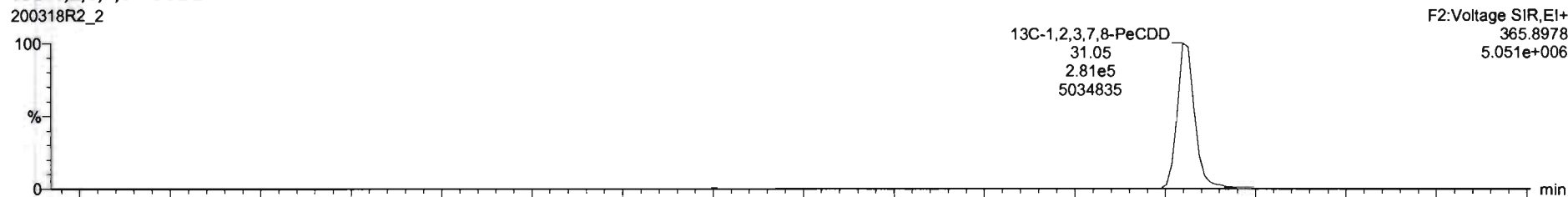


200318R2_2

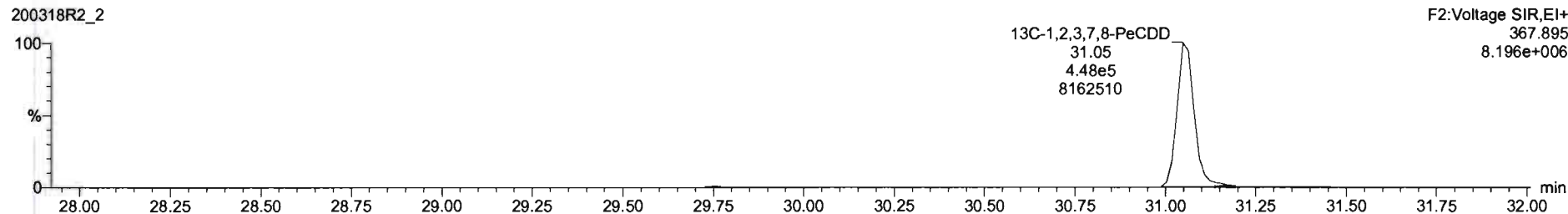


13C-1,2,3,7,8-PeCDD

200318R2_2



200318R2_2



Dataset: Untitled

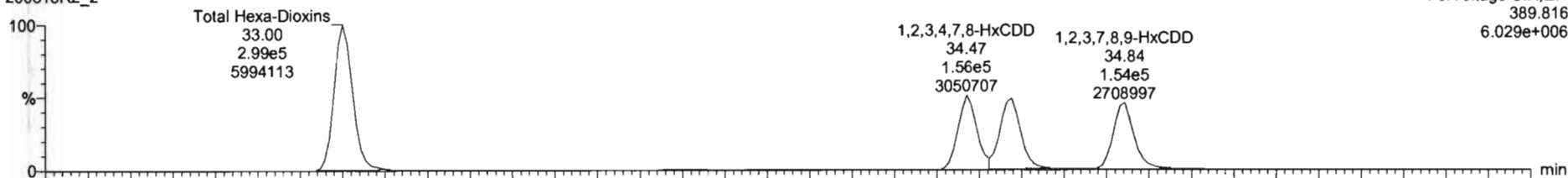
Last Altered: Thursday, March 19, 2020 07:42:46 Pacific Daylight Time
Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

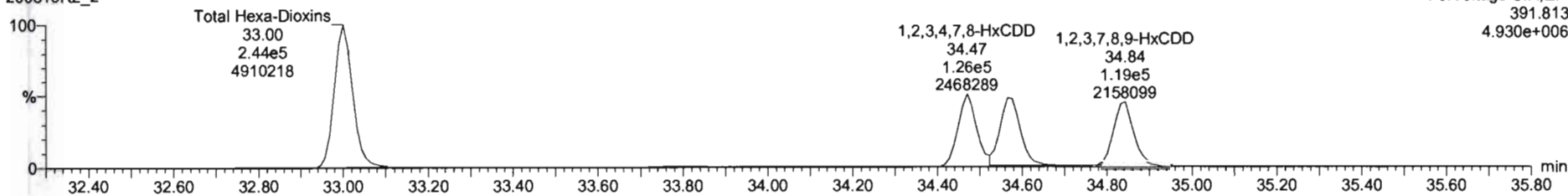
200318R2_2

F3:Voltage SIR,EI+
389.816
6.029e+006



200318R2_2

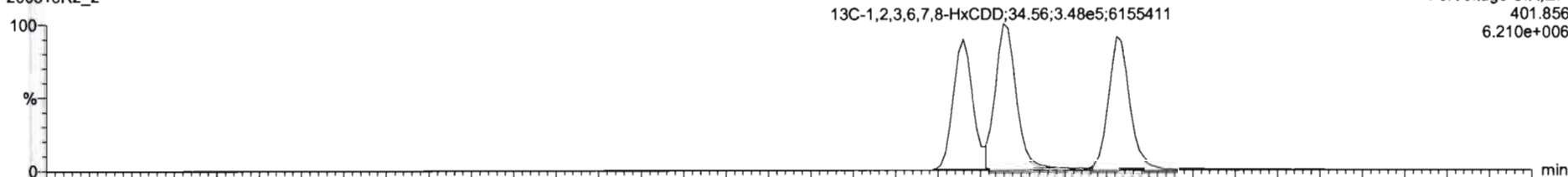
F3:Voltage SIR,EI+
391.813
4.930e+006



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

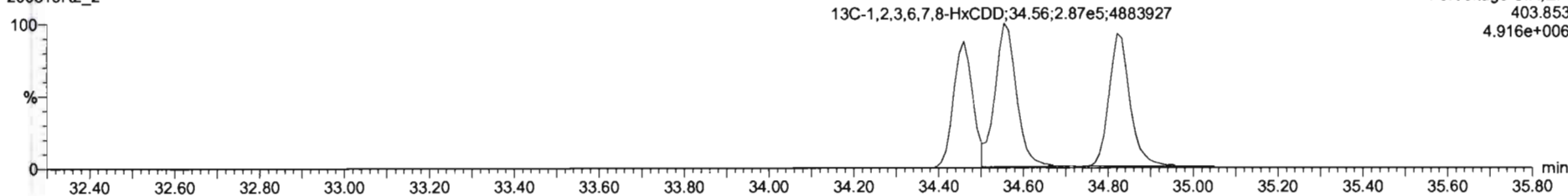
200318R2_2

F3:Voltage SIR,EI+
401.856
6.210e+006



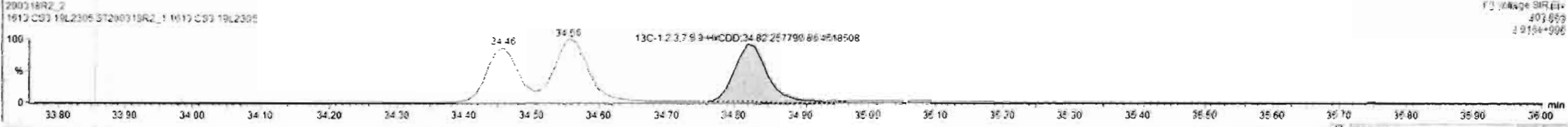
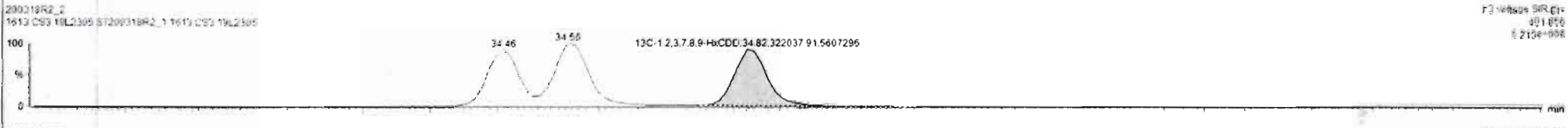
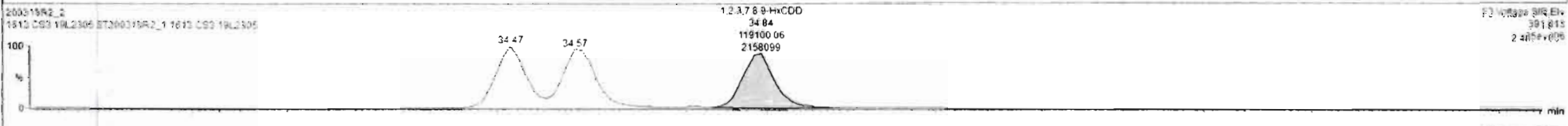
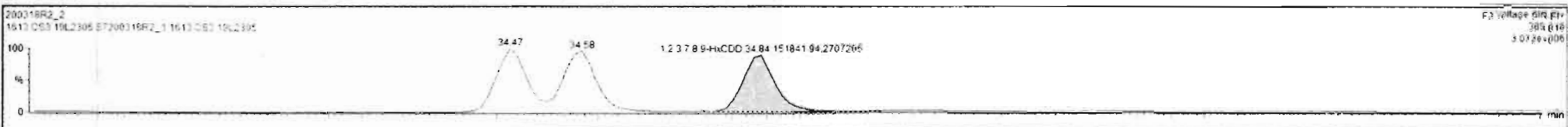
200318R2_2

F3:Voltage SIR,EI+
403.853
4.916e+006



200318R2_2 - ST200318R2_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	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	6.96e4	9.81e5	0.77	0.80	NO	0.9835	25.80	25.80	NO	1.001	1.001	9.28	52.8	NO
2	1,2,3,7,8-PeCDD	3.18e5	7.29e5	0.63	0.62	NO	0.9212	31.07	31.08	NO	1.001	1.001	47.3	94.7	NO
3	1,2,3,4,7,8-HxCDD	2.83e5	5.17e5	1.24	1.24	NO	1.1325	34.47	34.47	NO	1.000	1.000	48.3	96.6	NO
4	1,2,3,6,7,8-HxCDD	2.94e5	6.35e5	1.24	1.25	NO	0.9944	34.56	34.58	NO	1.000	1.001	47.0	94.1	NO
5	1,2,3,7,8,9-HxCDD	2.71e5	5.90e5	1.24	1.27	NO	0.9674	34.83	34.84	NO	1.000	1.001	48.3	96.6	NO
6	1,2,3,4,6,7,8-HpCDD	2.07e5	4.36e5	1.04	1.02	NO	1.0061	36.28	36.28	NO	1.000	1.000	47.2	94.3	NO
7	OCDD	3.69e5	6.15e5	0.59	0.59	NO	1.0515	41.32	41.33	NO	1.000	1.000	93.1	93.1	NO
8	1,2,3,7,8-TCDF	1.06e5	1.32e6	0.77	0.76	NO	0.9154	24.79	24.79	NO	1.001	1.001	8.96	89.6	NO
9	1,2,3,7,8-PeCDF	4.93e5	1.04e6	1.55	1.55	NO	0.9594	29.73	29.72	NO	1.001	1.001	46.2	98.4	NO
10	1,2,3,4,7,8-PeCDF	4.82e5	1.03e6	1.55	1.59	NO	1.0035	30.77	30.76	NO	1.001	1.000	47.8	95.7	NO
11	1,2,3,4,7,8-HxCDF	3.57e5	7.36e5	1.24	1.22	NO	1.0381	33.61	33.62	NO	1.000	1.000	46.8	93.5	NO
12	1,2,3,6,7,8-HxCDF	3.95e5	8.07e5	1.24	1.23	NO	1.0126	33.73	33.74	NO	1.000	1.000	48.3	96.7	NO
13	1,2,3,4,6,7,8-HxCDF	3.79e5	7.35e5	1.24	1.21	NO	1.0920	34.32	34.31	NO	1.001	1.001	47.3	94.5	NO
14	1,2,3,7,8,9-HxCDF	2.98e5	6.09e5	1.24	1.22	NO	1.0262	35.16	35.17	NO	1.000	1.000	47.7	95.3	NO
15	1,2,3,4,6,7,8-HpCDF	2.77e5	5.65e5	1.04	1.01	NO	1.0483	36.89	36.87	NO	1.001	1.000	46.8	93.5	NO
16	1,2,3,4,7,8,9-HpCDF	2.17e5	3.78e5	1.04	1.04	NO	1.2096	36.50	36.91	NO	1.000	1.000	47.5	95.1	NO
17	OCDF	4.34e5	9.85e5	0.89	0.89	NO	0.9482	41.50	41.51	NO	1.000	1.000	94.6	94.6	NO



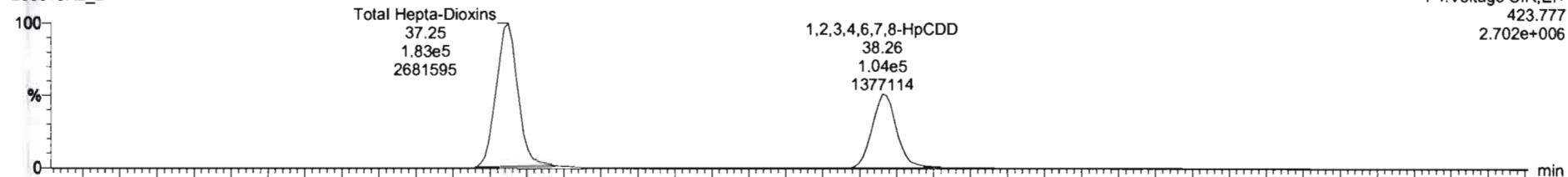
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Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

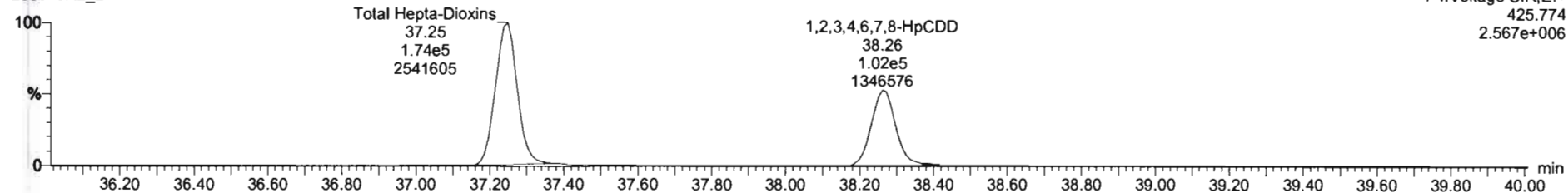
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1,2,3,4,6,7,8-HpCDD

200318R2_2

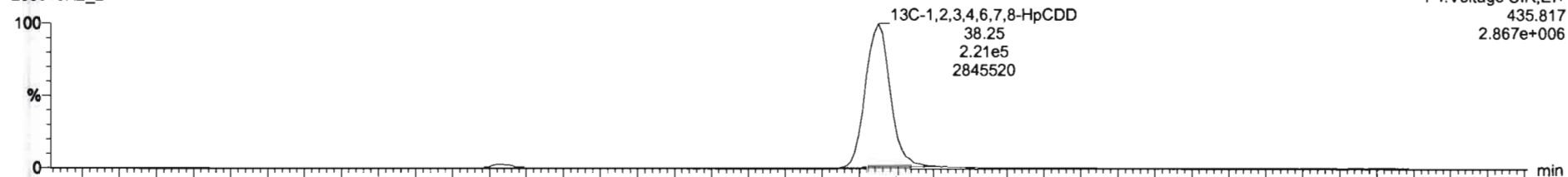


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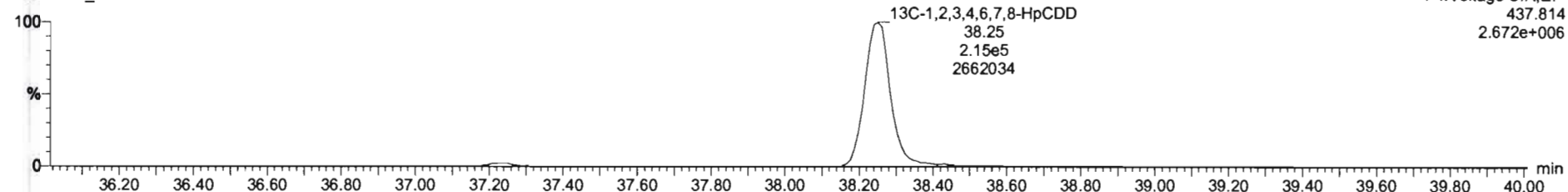


13C-1,2,3,4,6,7,8-HpCDD

200318R2_2



200318R2_2



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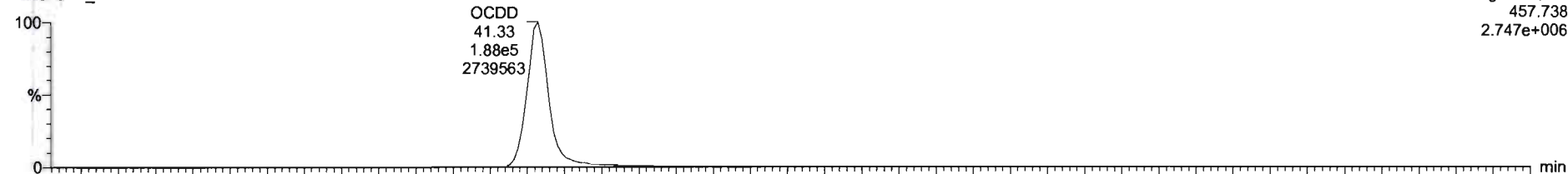
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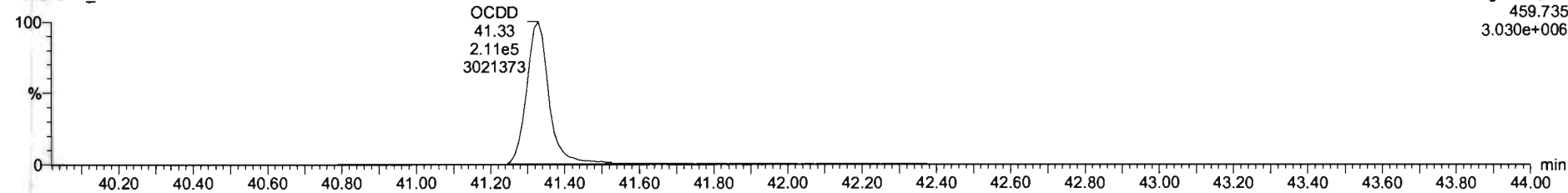
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OCDD

200318R2_2

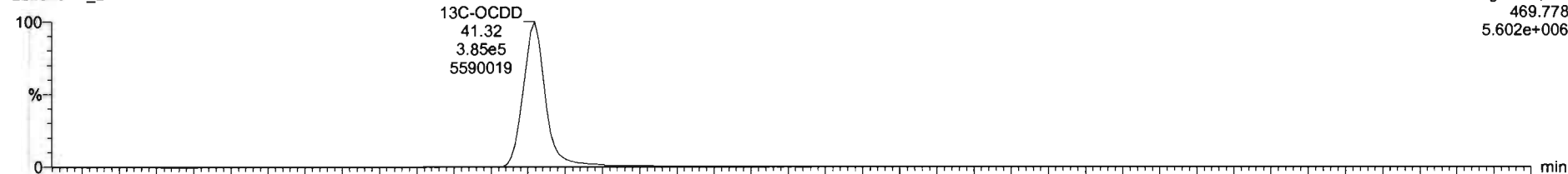


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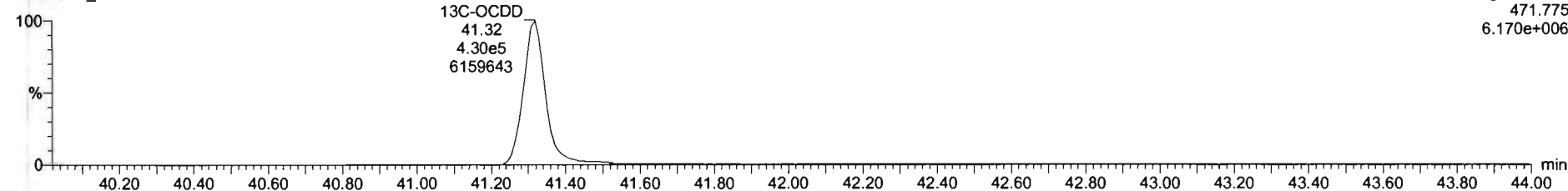


13C-OCDD

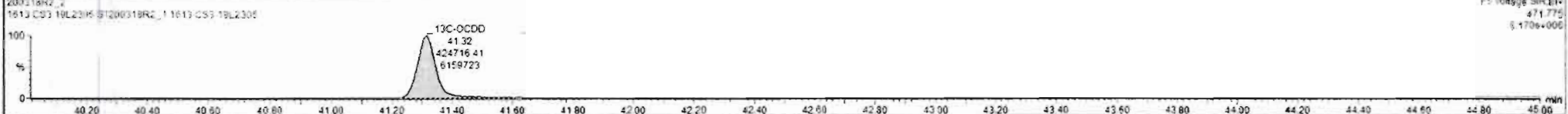
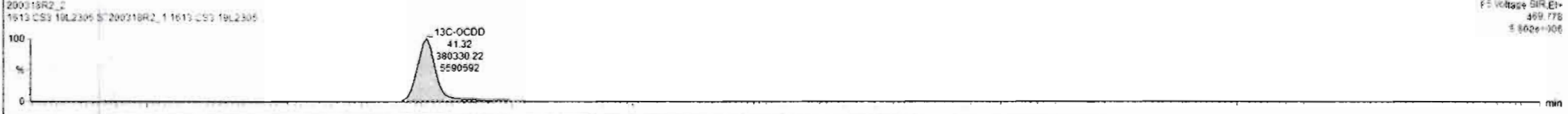
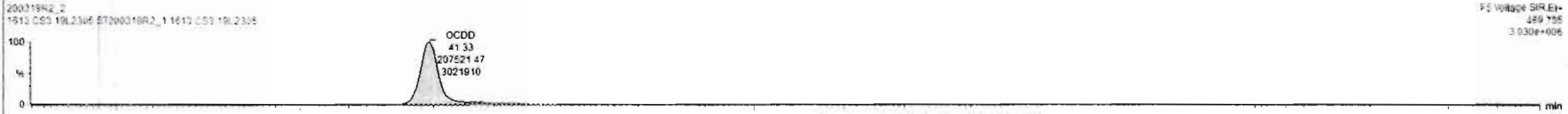
200318R2_2



200318R2_2



#	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	6.65e4	9.81e5	0.77	0.80	NO	0.9835	25.80	25.80	NO	1.001	1.001	9.26	92.6	NO
2	1,2,3,7,8-PeCDD	1.18e5	7.29e5	0.62	0.62	NO	0.9212	31.07	31.08	NO	1.001	1.001	47.3	94.7	NO
3	1,2,3,4,7,8-HxCDD	2.83e5	5.17e5	1.24	1.24	NO	1.1325	34.47	34.47	NO	1.000	1.000	48.3	96.6	NO
4	1,2,3,6,7,8-HxCDD	2.94e5	6.35e5	1.24	1.25	NO	0.9844	34.56	34.58	NO	1.000	1.001	47.0	94.1	NO
5	1,2,3,7,8-HxCDD	2.71e5	5.80e5	1.24	1.27	NO	0.9874	34.83	34.84	NO	1.000	1.001	46.3	96.6	NO
6	1,2,3,4,6,7,8-HpCDD	2.07e5	4.26e5	1.04	1.02	NO	1.0061	36.26	36.26	NO	1.000	1.000	47.2	94.3	NO
7	OCDD	3.92e5	8.05e5	0.89	0.89	NO	1.0515	41.32	41.33	NO	1.000	1.000	92.6	92.6	NO
8	2,3,7,8-TCDF	1.08e5	1.32e6	0.77	0.76	NO	0.5154	24.75	24.79	NO	1.001	1.001	8.96	89.6	NO
9	1,2,3,7,8-PeCDF	4.93e5	1.04e6	1.55	1.55	NO	0.9594	29.73	29.72	NO	1.001	1.001	49.2	98.4	NO
10	2,3,4,7,8-PeCDF	4.92e5	1.03e6	1.55	1.59	NO	1.0035	30.77	30.76	NO	1.001	1.000	47.0	95.7	NO
11	1,2,3,4,7,8-HxCDF	3.57e5	7.36e5	1.24	1.22	NO	1.0381	33.61	33.62	NO	1.000	1.000	46.8	93.6	NO
12	1,2,3,6,7,8-HxCDF	3.95e5	6.07e5	1.24	1.23	NO	1.0126	33.73	33.74	NO	1.000	1.000	48.3	96.7	NO
13	2,3,4,6,7,8-HxCDF	3.79e5	7.35e5	1.24	1.21	NO	1.0520	34.32	34.31	NO	1.001	1.001	47.3	94.5	NO
14	1,2,3,7,8,9-HxCDF	2.98e5	6.08e5	1.24	1.22	NO	1.0268	35.16	35.17	NO	1.000	1.000	47.7	95.3	NO
15	1,2,3,4,6,7,8-HpCDF	2.77e5	5.85e5	1.04	1.01	NO	1.0483	36.69	36.87	NO	1.001	1.000	46.8	93.5	NO
16	1,2,3,4,7,8,9-HpCDF	2.17e5	3.78e5	1.04	1.04	NO	1.2095	38.50	38.51	NO	1.000	1.000	47.5	96.1	NO
17	OCDF	4.34e5	9.69e5	0.89	0.89	NO	0.9468	41.50	41.51	NO	1.000	1.000	94.8	94.8	NO

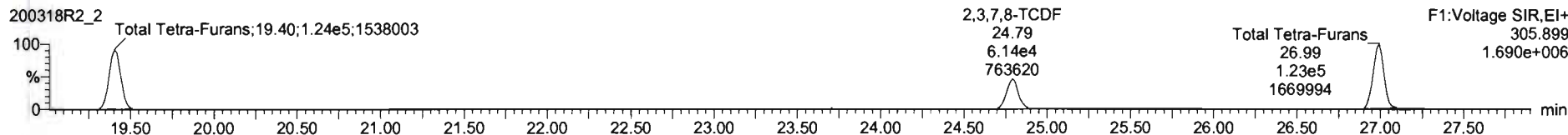


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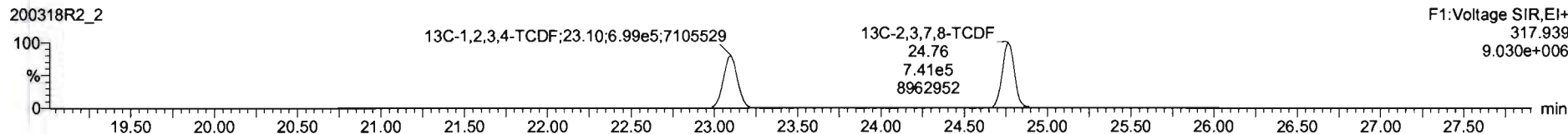
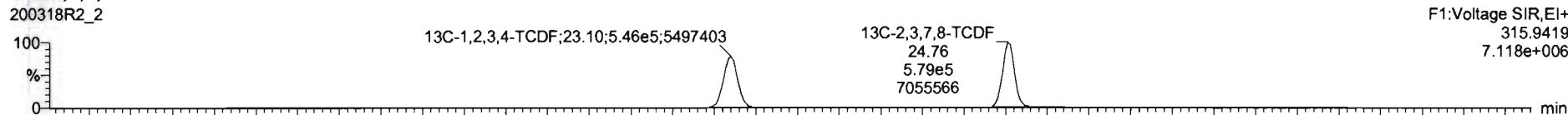
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Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

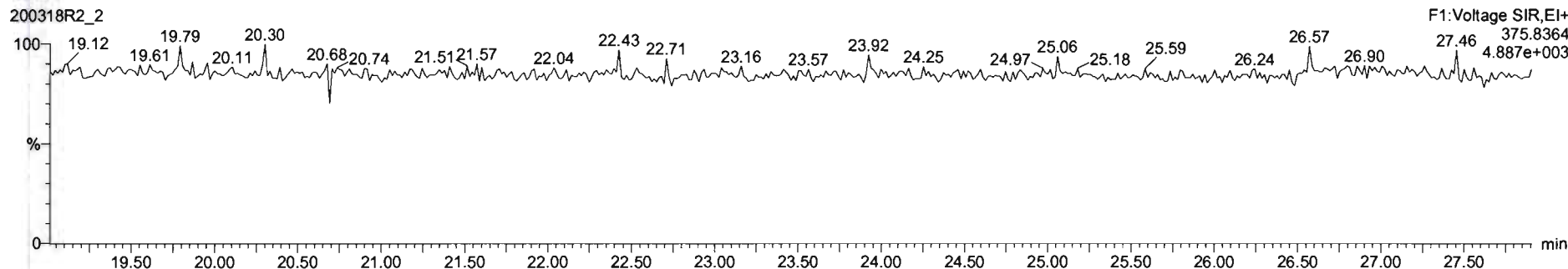
2,3,7,8-TCDF



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



DPE1

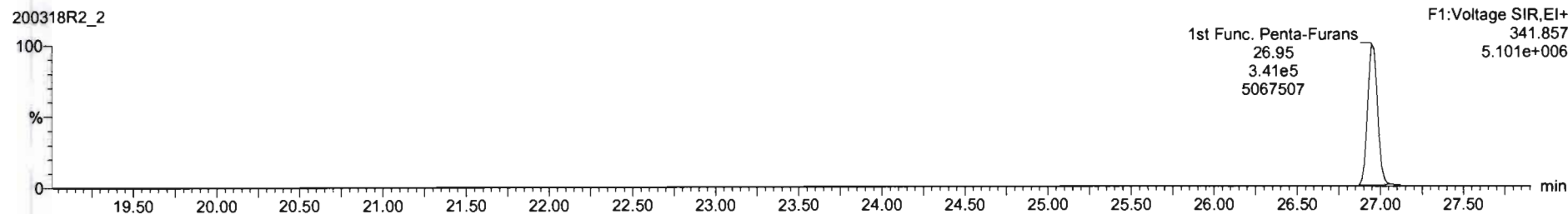
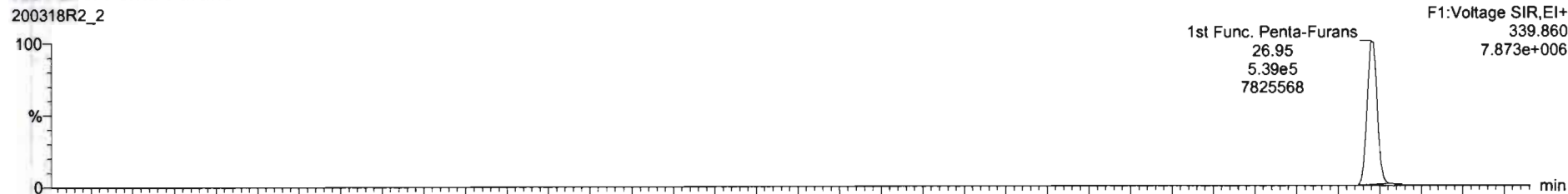


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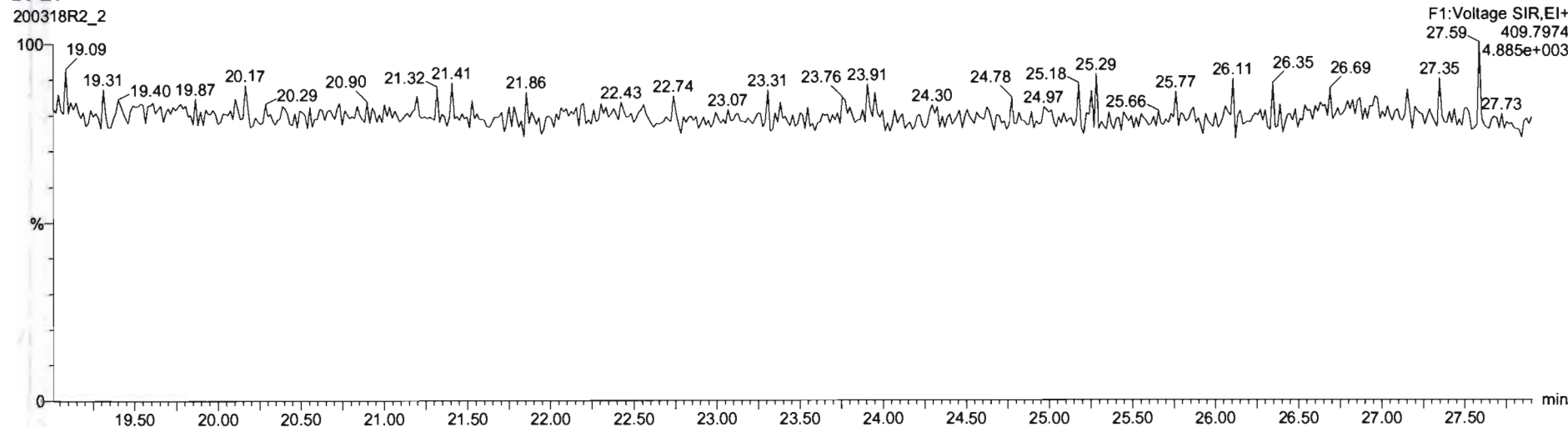
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Name: 200318R2_2, Date: 19-Mar-2020, Time: 04:19:20, ID: ST200318R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans



DPE6

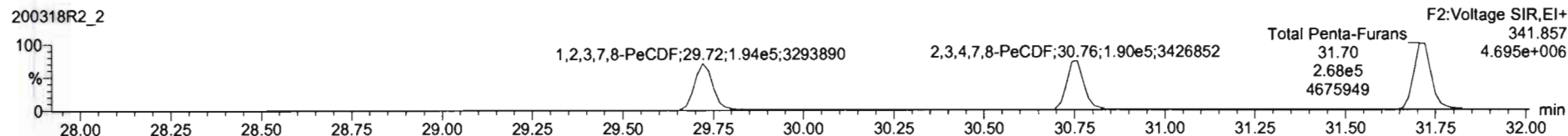
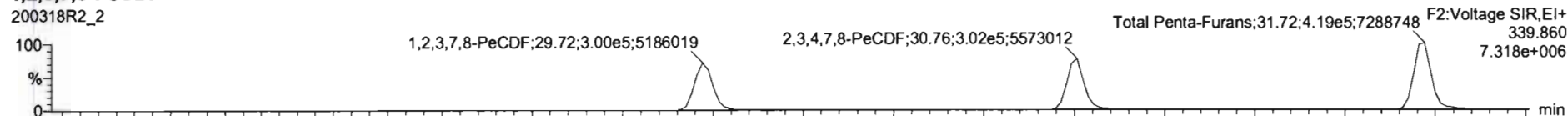


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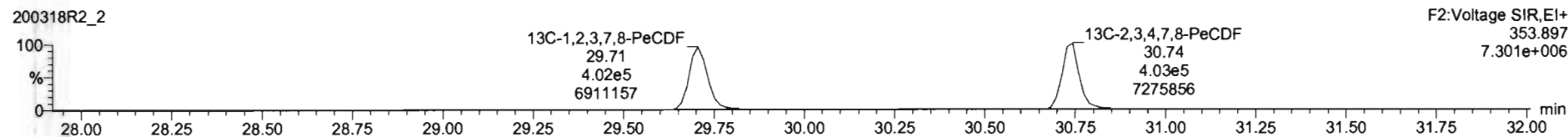
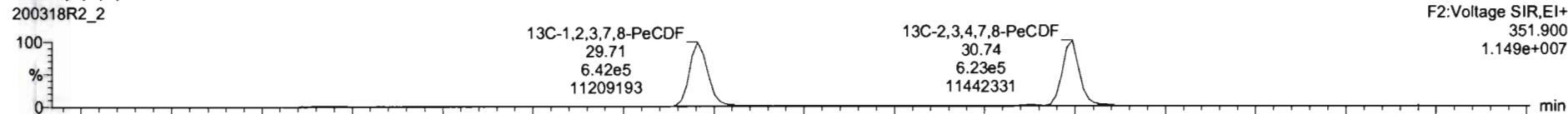
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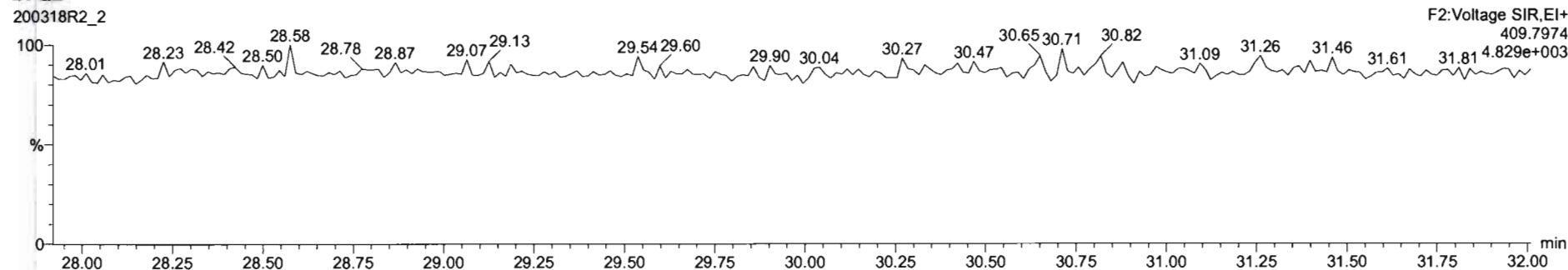
1,2,3,7,8-PeCDF



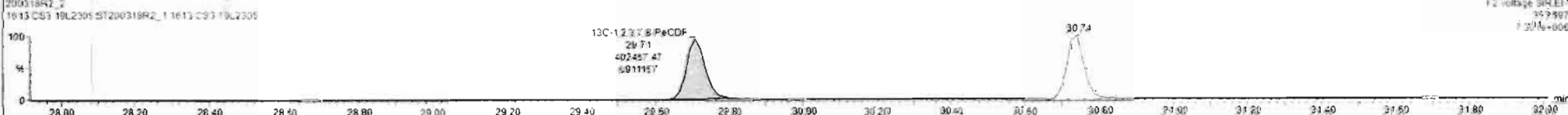
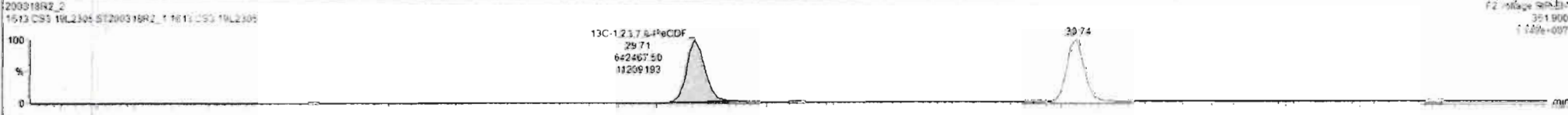
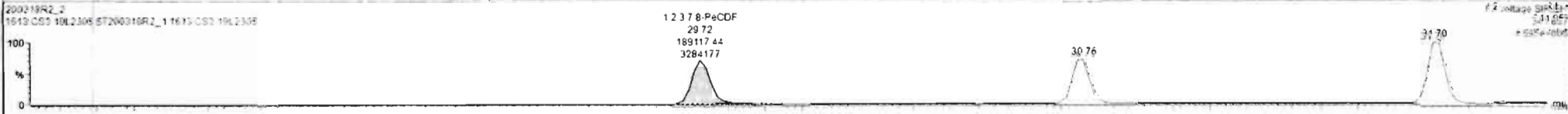
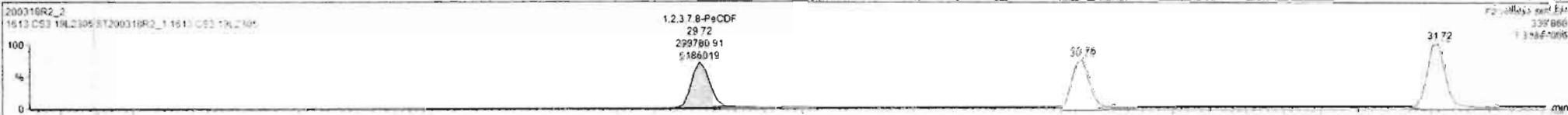
13C-1,2,3,7,8-PeCDF



DPE2



#	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	6.56e4	9.81e5	0.77	0.80	NO	0.9835	25.80	25.80	NO	1.001	1.001	9.26	92.8	NO
2	1,2,3,7,8-PeCDD	3.15e5	7.29e5	0.63	0.62	NO	0.9212	31.07	31.08	NO	1.001	1.001	47.3	94.7	NO
3	1,2,3,4,7,8-HxCDD	2.83e5	5.17e5	1.24	1.24	NO	1.1325	34.47	34.47	NO	1.000	1.000	48.3	96.6	NO
4	1,2,3,6,7,8-HxCDD	2.56e5	6.35e5	1.24	1.25	NO	0.9844	34.56	34.58	NO	1.000	1.001	47.0	94.1	NO
5	1,2,3,7,8,9-HxCDD	2.71e5	5.00e5	1.24	1.27	NO	0.9674	34.83	34.84	NO	1.000	1.001	48.3	96.6	NO
6	1,2,3,4,6,7,8-HpCDD	2.07e5	4.36e5	1.04	1.02	NO	1.0061	36.26	36.26	NO	1.000	1.000	47.2	94.3	NO
7	OCDD	3.92e5	8.05e5	0.89	0.89	NO	1.0515	41.32	41.33	NO	1.000	1.000	92.6	92.6	NO
8	2,3,7,8-TCDF	1.05e5	1.32e6	0.77	0.76	NO	0.9154	24.79	24.79	NO	1.001	1.001	6.96	89.6	NO
9	1,2,3,7,8-PeCDF	4.88e5	1.04e6	1.55	1.59	NO	0.9594	29.73	29.72	NO	1.001	1.001	48.8	97.5	NO
10	1,2,3,4,7,8-PeCDF	4.92e5	1.03e6	1.55	1.59	NO	1.0035	30.77	30.76	NO	1.001	1.000	47.8	95.7	NO
11	1,2,3,4,7,8-HxCDF	3.57e5	7.96e5	1.24	1.22	NO	1.0361	33.61	33.62	NO	1.000	1.000	46.8	93.5	NO
12	1,2,3,6,7,8-HxCDF	3.55e5	8.07e5	1.24	1.23	NO	1.0126	33.73	33.74	NO	1.000	1.000	48.3	96.7	NO
13	1,2,3,4,6,7,8-HpCDF	3.79e5	7.35e5	1.24	1.21	NO	1.0920	34.32	34.31	NO	1.001	1.001	47.3	94.5	NO
14	1,2,3,7,8,9-HxCDF	2.98e5	6.08e5	1.24	1.22	NO	1.0266	35.16	35.17	NO	1.000	1.000	47.7	95.3	NO
15	1,2,3,4,6,7,8-HpCDF	2.77e5	5.85e5	1.04	1.01	NO	1.0483	36.89	36.87	NO	1.001	1.000	46.8	93.5	NO
16	1,2,3,4,7,8,9-HpCDF	2.17e5	3.78e5	1.04	1.04	NO	1.2099	38.90	38.91	NO	1.000	1.000	47.5	95.1	NO
17	OCDF	4.34e5	9.68e5	0.89	0.89	NO	0.9468	41.50	41.51	NO	1.000	1.000	94.6	94.6	NO

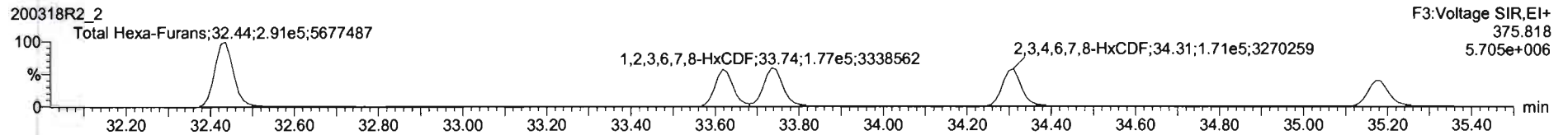
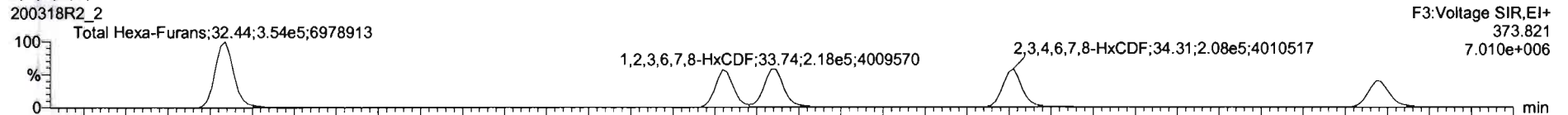


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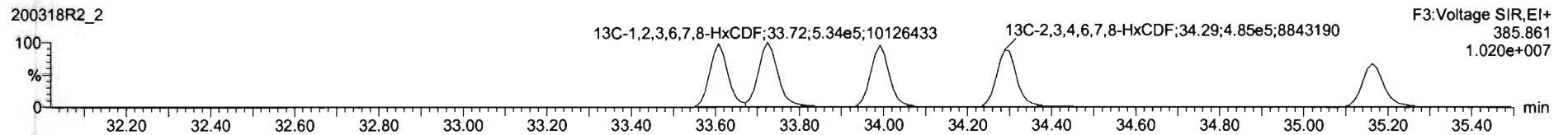
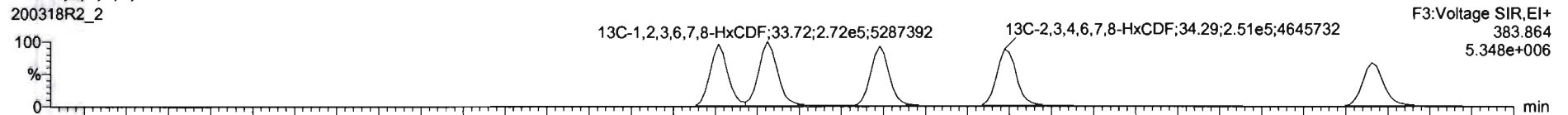
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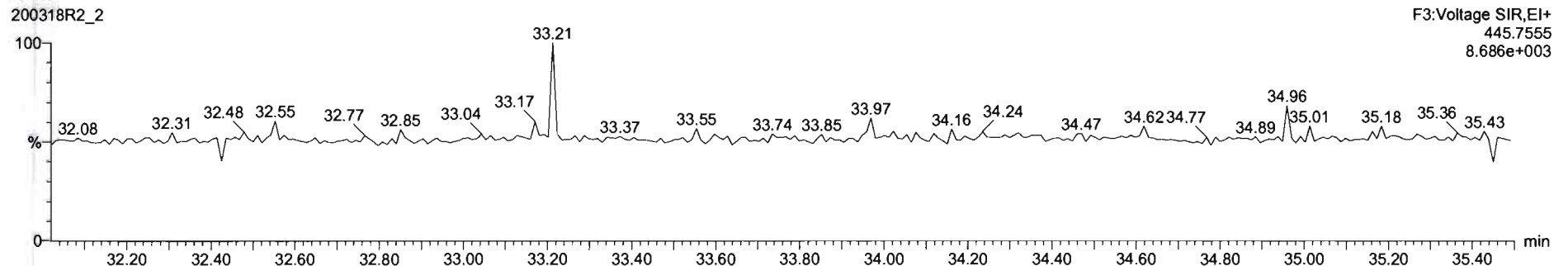
1,2,3,4,7,8-HxCDF



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



DPE3



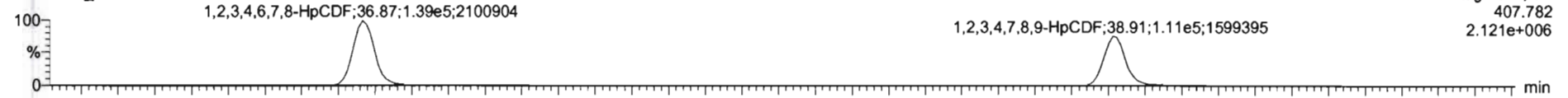
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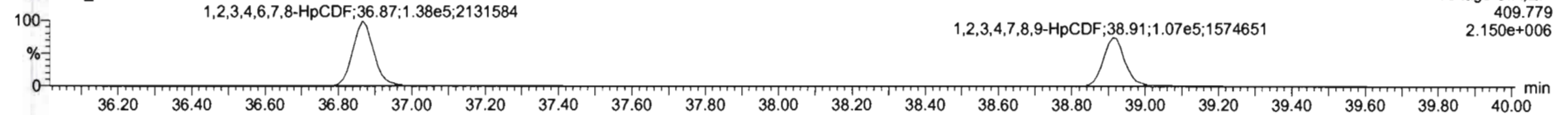
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1,2,3,4,6,7,8-HpCDF

200318R2_2

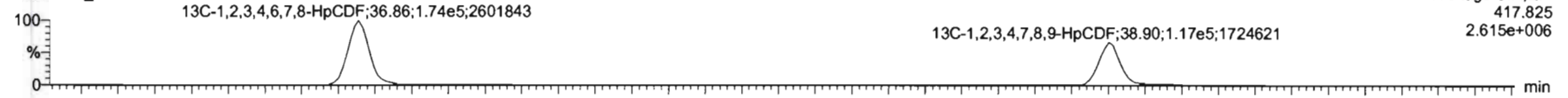


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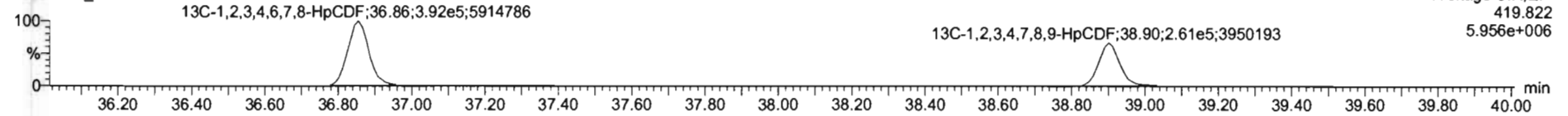


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200318R2_2

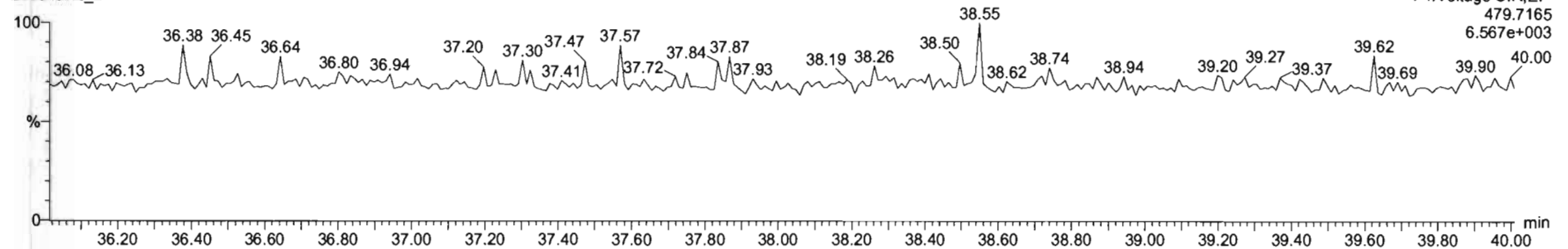


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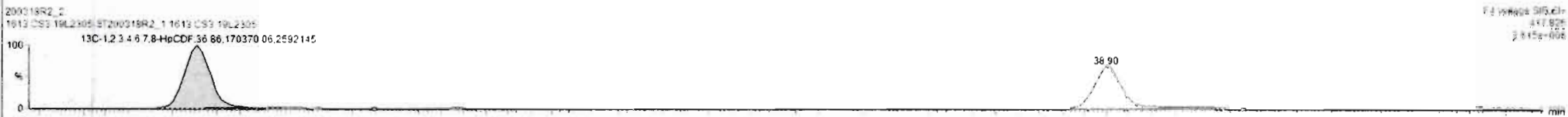
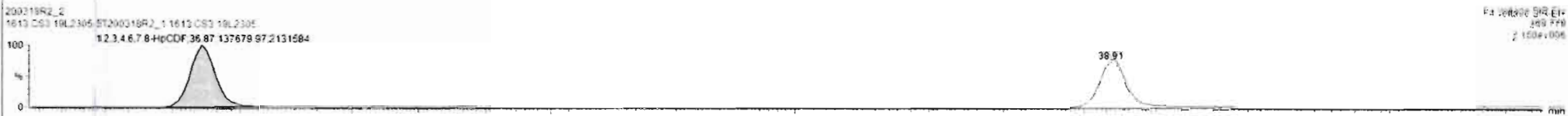


DPE4

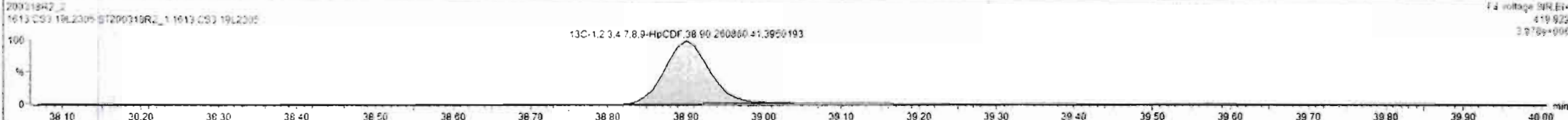
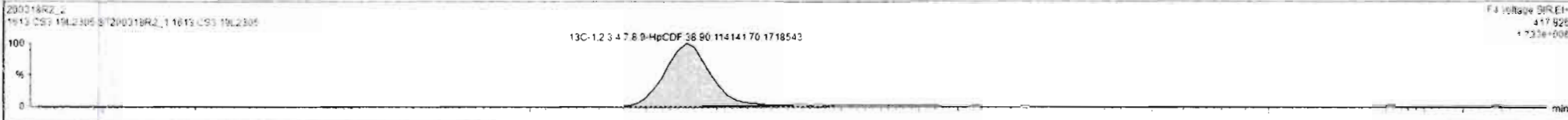
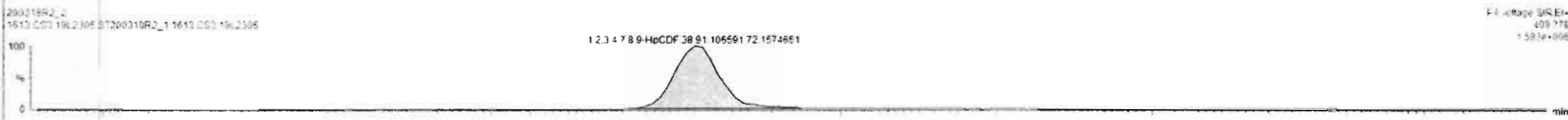
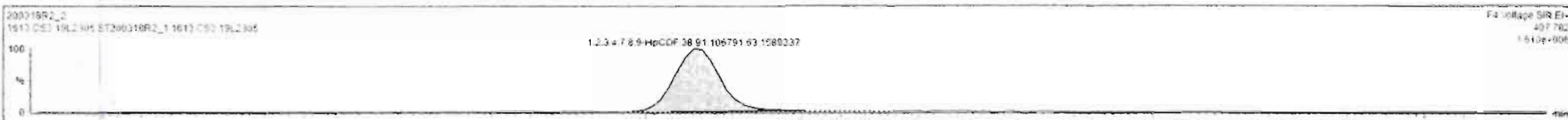
200318R2_2



#	Name	Resp	IS Resp	Pred RA	RA	ily	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	6.95e4	9.81e5	0.77	0.80	NO	0.9835	25.80	25.80	NO	1.001	1.001	9.26	52.8	NO
2	1,2,3,7,8-PeCDD	3.18e5	7.29e5	0.83	0.82	NO	0.9212	31.07	31.08	NO	1.001	1.001	47.3	94.7	NO
3	1,2,3,4,7,8-HxCDD	2.83e5	5.17e5	1.24	1.24	NO	1.1325	34.47	34.47	NO	1.000	1.000	46.3	96.8	NO
4	1,2,3,6,7,8-HxCDD	2.94e5	6.35e5	1.24	1.25	NO	0.9944	34.56	34.58	NO	1.000	1.001	47.0	94.1	NO
5	1,2,3,7,8-HxCDD	2.71e5	5.80e5	1.24	1.27	NO	0.9674	34.83	34.84	NO	1.000	1.001	46.3	96.8	NO
6	1,2,3,4,6,7,8-HpCDD	2.07e5	4.36e5	1.04	1.02	NO	1.0961	36.26	36.26	NO	1.000	1.000	47.2	94.1	NO
7	OCDD	3.92e5	8.05e5	0.89	0.89	NO	1.0515	41.32	41.33	NO	1.000	1.000	52.6	92.6	NO
8	1,2,3,7,8-TCDF	1.06e5	1.32e6	0.77	0.76	NO	0.9154	24.79	24.79	NO	1.001	1.001	8.96	89.6	NO
9	1,2,3,7,8-PeCDF	4.85e5	1.04e6	1.55	1.59	NO	0.9594	29.73	29.72	NO	1.001	1.001	46.8	97.5	NO
10	1,2,3,4,7,8-PeCDF	4.92e5	1.03e6	1.55	1.59	NO	1.0335	30.77	30.76	NO	1.001	1.000	47.8	95.7	NO
11	1,2,3,4,7,8-HxCDF	3.57e5	7.36e5	1.24	1.22	NO	1.0361	33.61	33.62	NO	1.000	1.000	46.6	93.5	NO
12	1,2,3,6,7,8-HxCDF	3.95e5	8.07e5	1.24	1.23	NO	1.0126	33.73	33.74	NO	1.000	1.000	46.3	96.7	NO
13	1,2,3,4,6,7,8-HxCDF	3.79e5	7.35e5	1.24	1.21	NO	1.0920	34.32	34.31	NO	1.001	1.001	47.2	94.5	NO
14	1,2,3,7,8,9-HxCDF	2.96e5	6.04e5	1.24	1.22	NO	1.0262	35.16	35.17	NO	1.000	1.000	47.7	95.3	NO
15	1,2,3,4,6,7,8-HpCDF	2.77e5	5.62e5	1.04	1.01	NO	1.0483	36.89	36.87	NO	1.001	1.000	47.0	94.1	NO
16	1,2,3,4,7,8,9-HpCDF	2.17e5	3.78e5	1.04	1.04	NO	1.2999	36.90	36.91	NO	1.000	1.000	47.5	95.1	NO
17	OCDF	4.34e5	9.69e5	0.89	0.89	NO	0.9466	41.50	41.51	NO	1.000	1.000	54.0	94.6	NO



#	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	6.55e4	9.81e5	0.77	0.80	NO	0.9935	25.00	25.60	NO	1.001	1.001	9.28	52.8	NO
2	1.2,3,7,8-PeCDD	3.15e5	7.29e5	0.63	0.62	NO	0.9212	31.07	31.08	NO	1.001	1.001	47.3	94.7	NO
3	1.2,3,4,7,8-HxCDD	2.63e5	5.17e5	1.24	1.24	NO	1.1325	34.47	34.47	NO	1.000	1.000	48.3	95.6	NO
4	1.2,3,6,7,8-HxCDD	2.94e5	8.25e5	1.24	1.25	NO	0.9544	34.56	34.58	NO	1.000	1.001	47.0	94.1	NO
5	1.2,3,7,8,9-HxCDD	2.71e5	5.80e5	1.24	1.27	NO	0.9674	34.83	34.84	NO	1.000	1.001	48.3	95.6	NO
6	1.2,3,4,6,7,8-HpCDD	2.07e5	4.26e5	1.04	1.02	NO	1.0061	38.26	38.26	NO	1.000	1.000	47.2	94.3	NO
7	OCDD	3.92e5	8.05e5	0.89	0.89	NO	1.0515	41.32	41.33	NO	1.000	1.000	92.6	92.6	NO
8	2,3,7,8-TCDF	1.08e5	1.32e6	0.77	0.76	NO	0.9154	24.79	24.79	NO	1.001	1.001	8.96	89.6	NO
9	1.2,3,7,8-PeCDF	4.69e5	1.04e6	1.55	1.59	NO	0.9594	29.73	29.72	NO	1.001	1.001	48.8	97.5	NO
10	1.2,3,4,7,8-PeCDF	4.92e5	1.03e6	1.55	1.59	NO	1.0035	30.77	30.78	NO	1.001	1.000	47.8	95.7	NO
11	1.2,3,4,7,8-HxCDF	3.57e5	7.36e5	1.24	1.22	NO	1.0381	33.61	33.62	NO	1.000	1.000	46.6	93.5	NO
12	1.2,3,6,7,8-HxCDF	3.95e5	8.07e5	1.24	1.23	NO	1.0126	33.73	33.74	NO	1.000	1.000	48.3	96.7	NO
13	1.2,3,4,6,7,8-HxCDF	3.79e5	7.35e5	1.24	1.21	NO	1.0920	34.32	34.31	NO	1.001	1.001	47.3	94.5	NO
14	1.2,3,7,8,9-HxCDF	2.96e5	6.08e5	1.24	1.22	NO	1.0265	35.16	35.17	NO	1.000	1.000	47.7	95.3	NO
15	1.2,3,4,6,7,8-HpCDF	2.77e5	5.62e5	1.04	1.01	NO	1.0483	36.89	36.87	NO	1.001	1.000	47.0	94.1	NO
16	1.2,3,4,7,8,9-HpCDF	2.13e5	3.75e5	1.04	1.00	NO	1.2099	36.90	38.91	NO	1.000	1.000	47.0	94.1	NO
17	OCDF	4.34e5	9.69e5	0.89	0.89	NO	0.9482	41.50	41.51	NO	1.000	1.000	94.6	94.6	NO



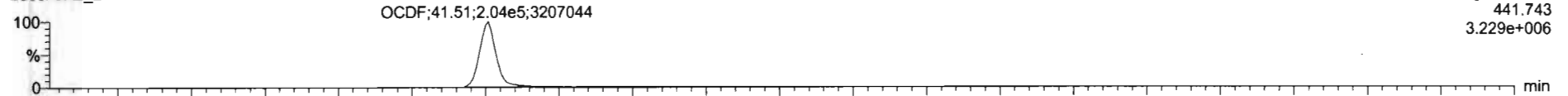
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Printed: Thursday, March 19, 2020 07:43:27 Pacific Daylight Time

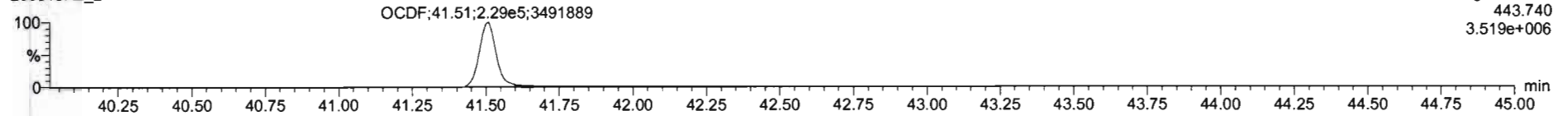
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OCDF

200318R2_2

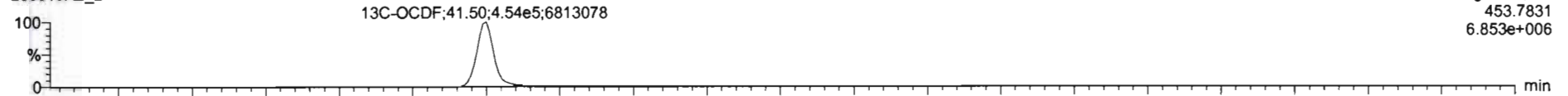


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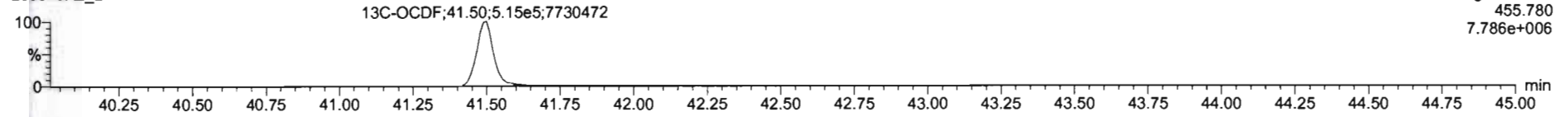


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200318R2_2

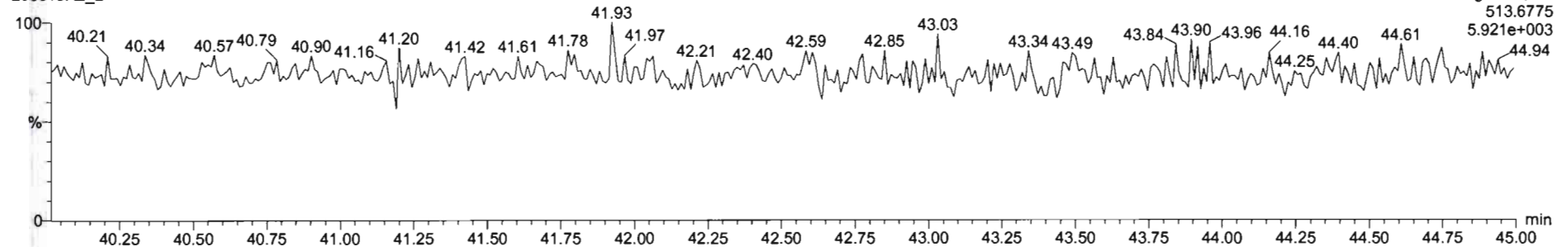


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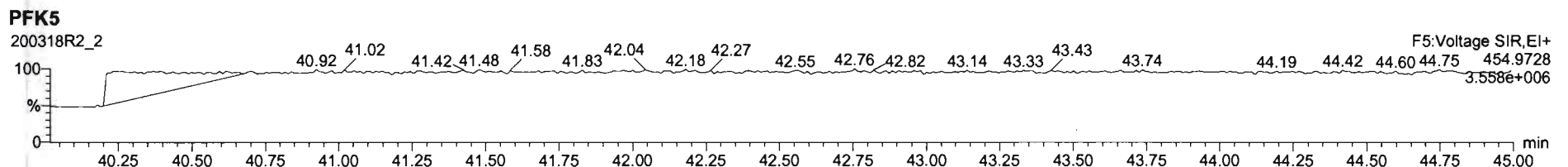
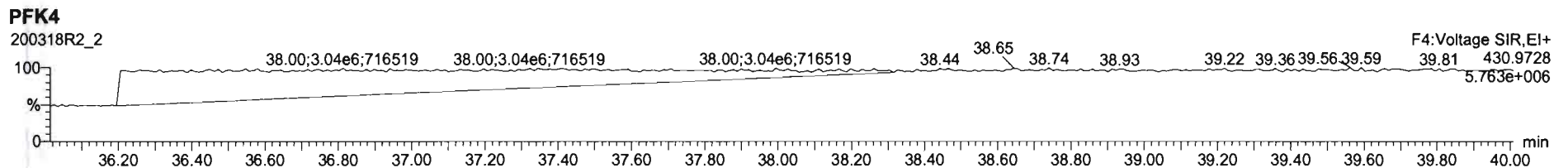
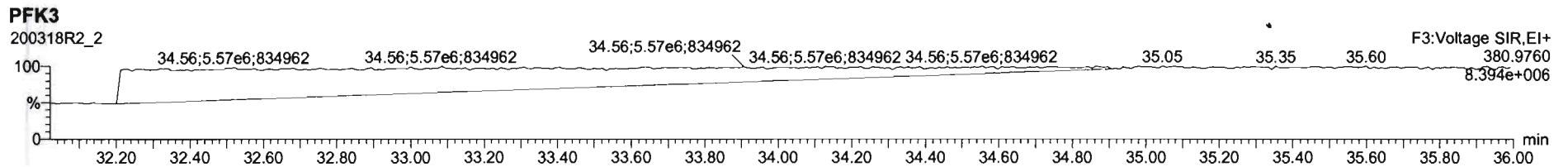
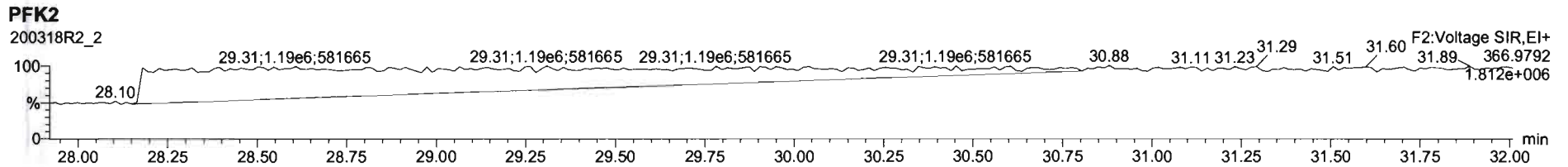
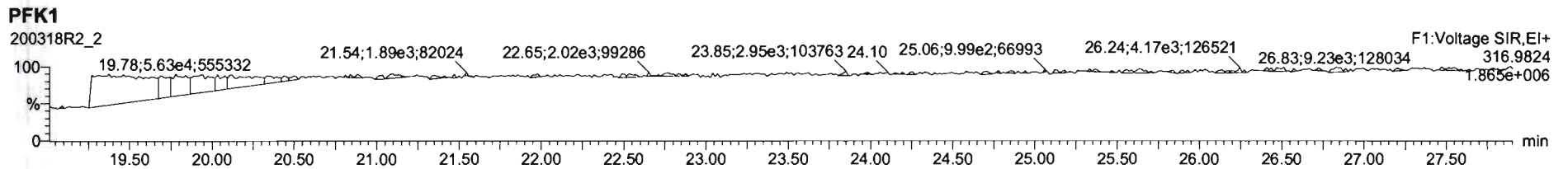
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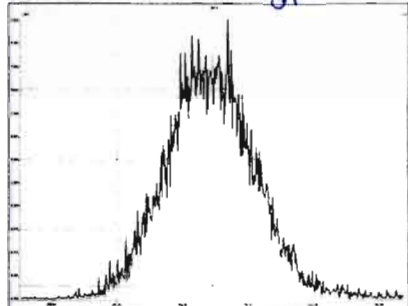
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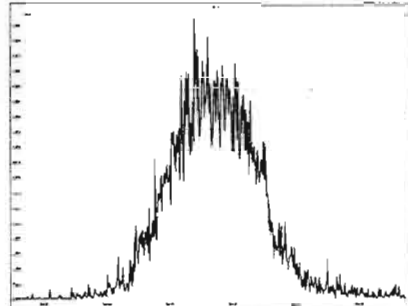


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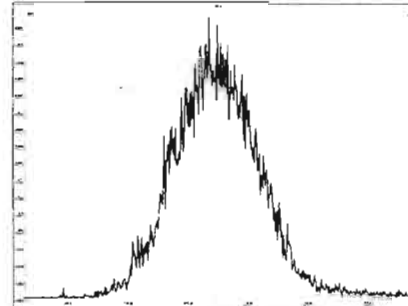
M 292.9824 R 9891 *OK*



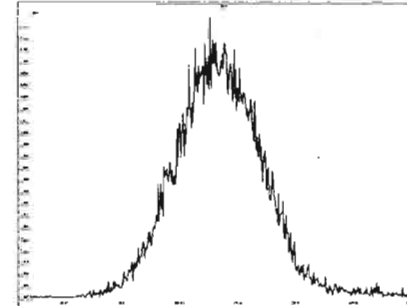
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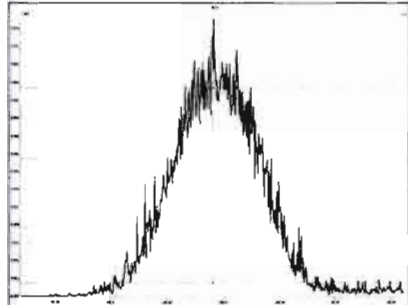
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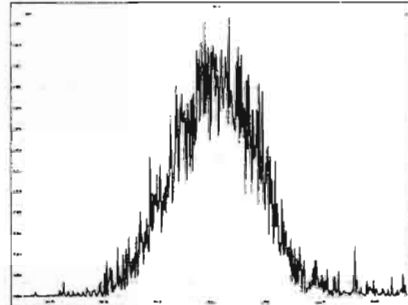
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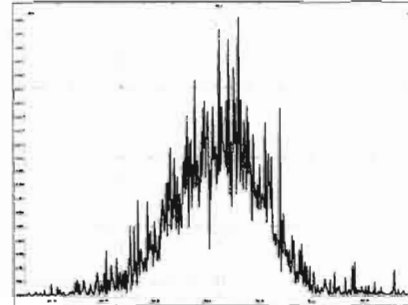
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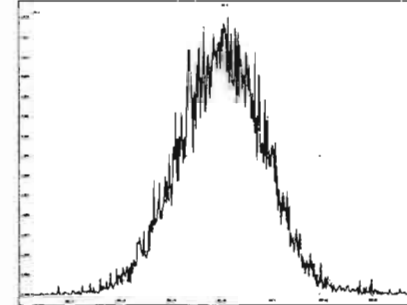
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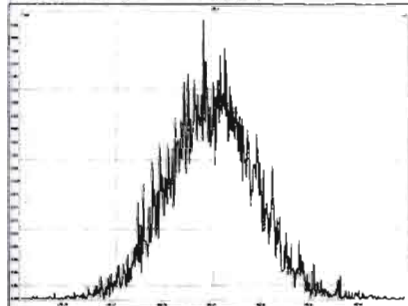
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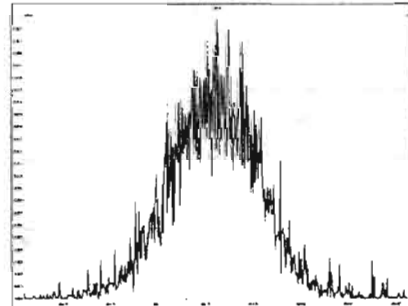
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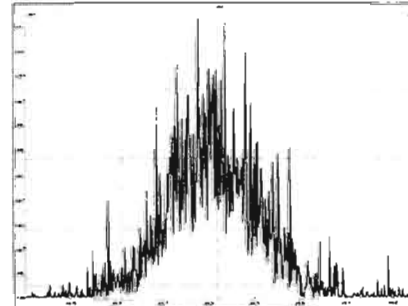
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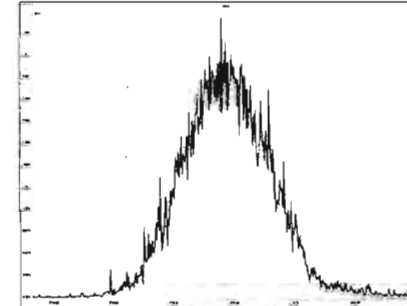
M 404.9760 R 11240



M 416.9760 R 13187

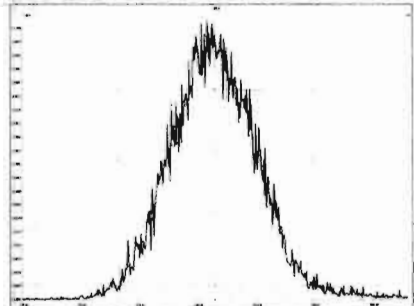


M 318.9792 R 10205

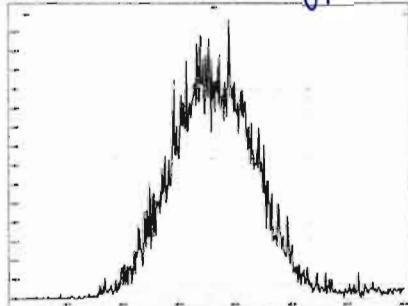


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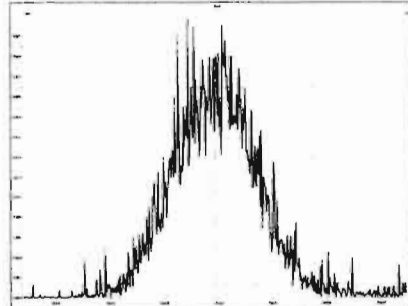
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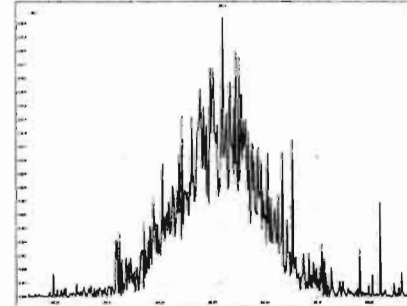
M 342.9792 R 9960 *OK*



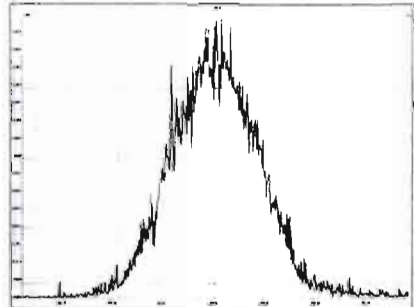
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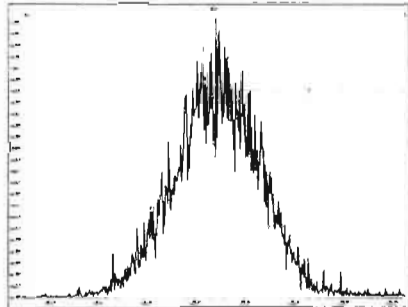
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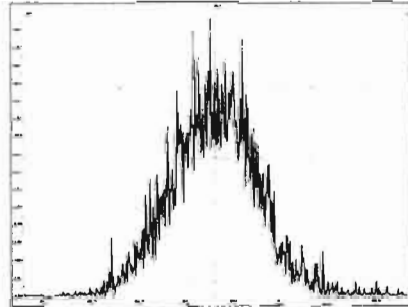
M 380.9760 R 10107



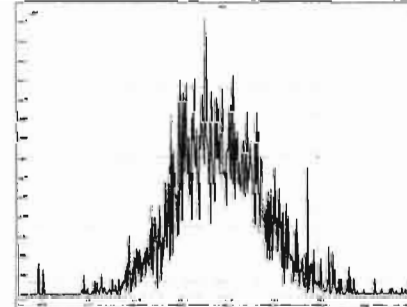
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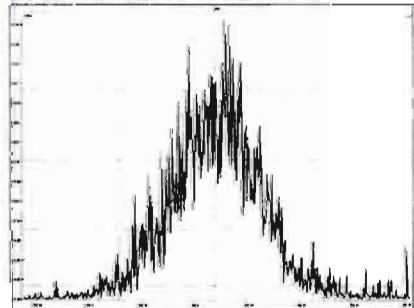
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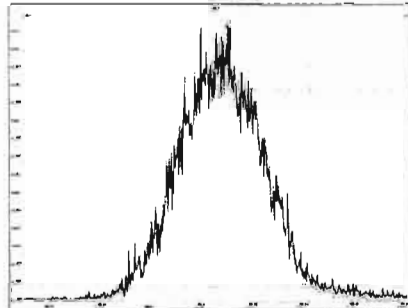
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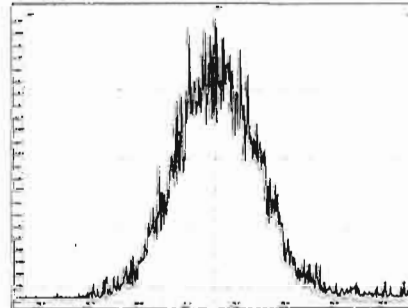
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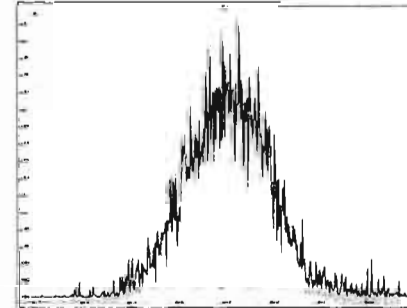
M 380.9760 R 10250



M 392.9760 R 11135

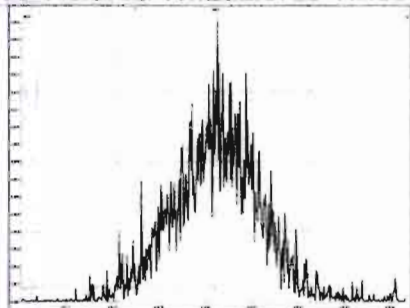


M 404.9760 R 10957

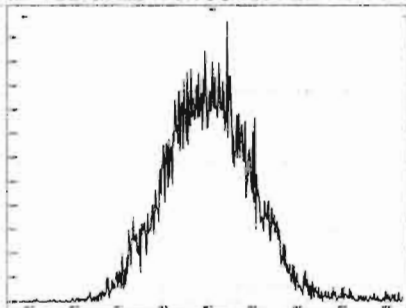


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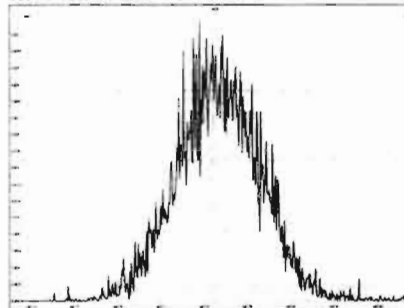
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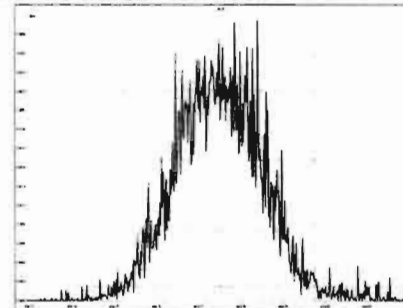
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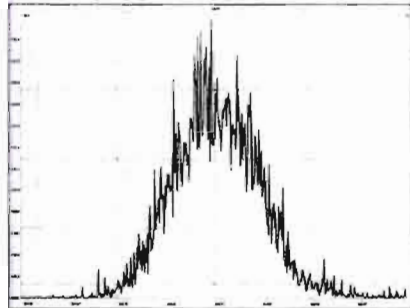
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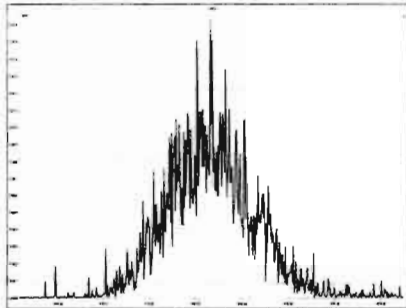
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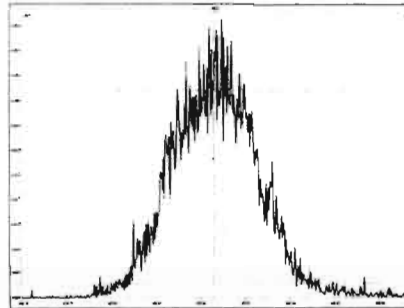
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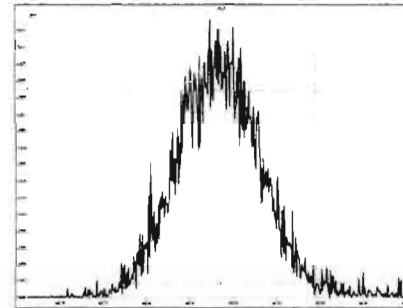
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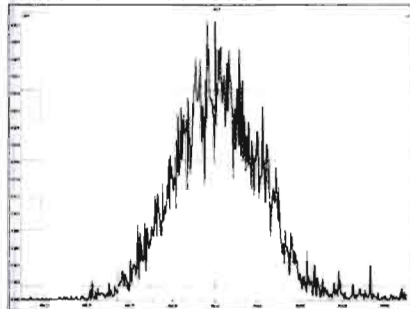
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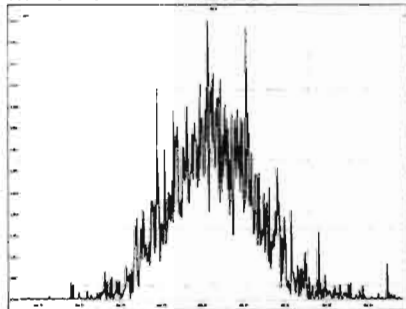
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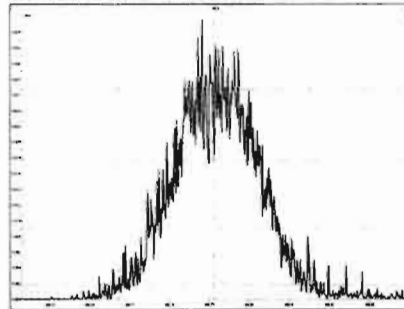
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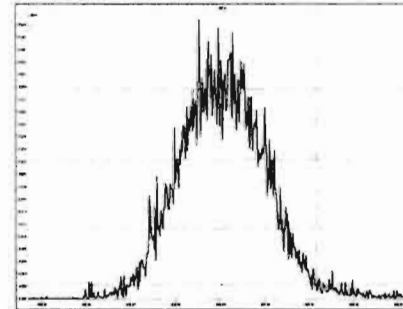
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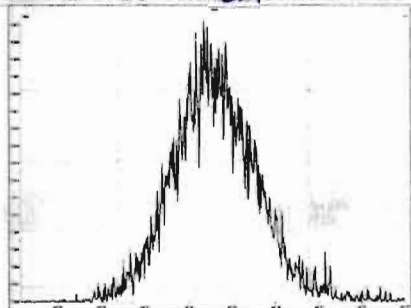


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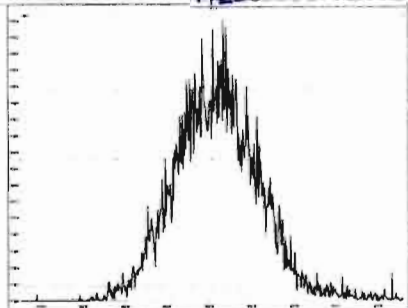


Printed: Thursday, March 19, 2020 15:37:56 Pacific Daylight Time

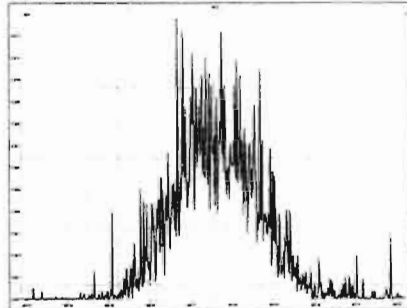
M 442.9728 R 11574



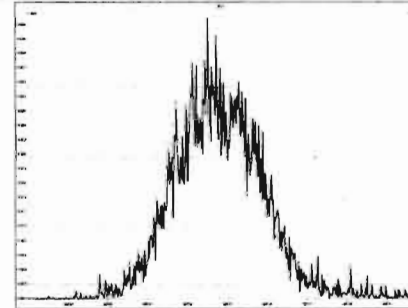
M 454.9728 R 11295



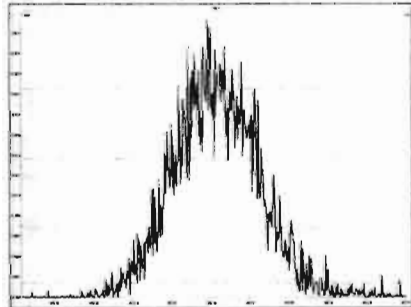
M 466.9728 R 12311



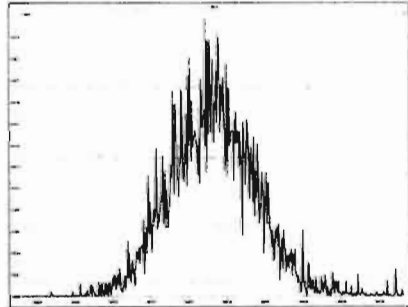
M 480.9696 R 11210



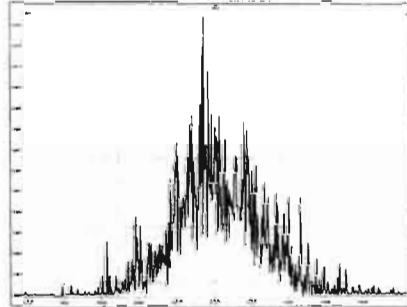
M 492.9696 R 10872



M 504.9696 R 10803



M 516.9697 R 12887



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200311R3-1

Reviewed By: CT 03/12/2020
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>GRB</u>	<u>GRB</u>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>↓</u>
- Samples within 12 hour clock?	<u>(Y)</u>	N
- Bottle position verified?	<u>GRB</u>	

Mass resolution >

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

Intergrated peaks display correctly?

GC Break <20%

8280 CS1 End Standard:

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

Comments:

Dataset: U:\VG12.PRO\Results\200311R3\200311R3-7.qld

Last Altered: Thursday, March 12, 2020 07:34:54 Pacific Daylight Time

Printed: Thursday, March 12, 2020 07:35:58 Pacific Daylight Time

GRB 03/12/2020

CT 03/12/2020

Method: Untitled 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R3_7, Date: 11-Mar-2020, Time: 18:44:28, ID: ST200311R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.06e5	0.74	NO	0.821	1.000	16.53	9.8162	98.2	0.107
2	2 13C-2,3,7,8-TCDF	2.56e6	0.77	NO	1.10	1.000	16.51	100.90	101	0.403
3	3 13C-1,2,3,4-TCDF	2.31e6	0.78	NO	1.00	1.000	14.41	100.00	100	0.443
4	4 13C-1,2,3,4-TCDD	1.84e6	0.78	NO	12000	1.000	15.04	153.62	154	0.228

Dataset: Untitled

Last Altered: Thursday, March 12, 2020 07:36:34 Pacific Daylight Time
Printed: Thursday, March 12, 2020 07:37:40 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

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

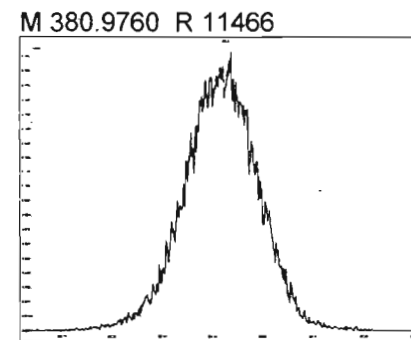
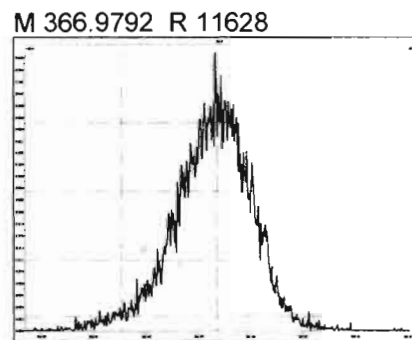
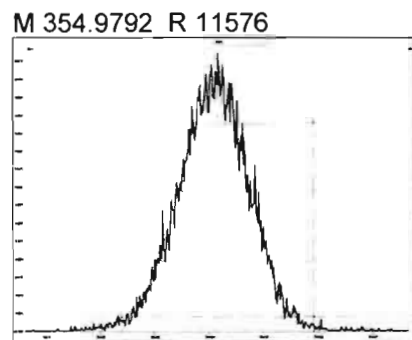
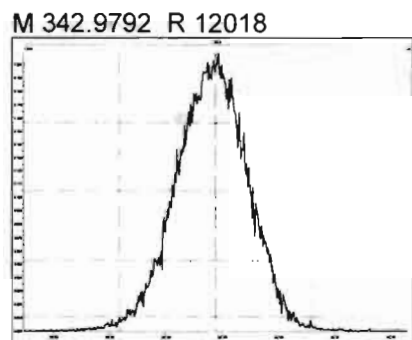
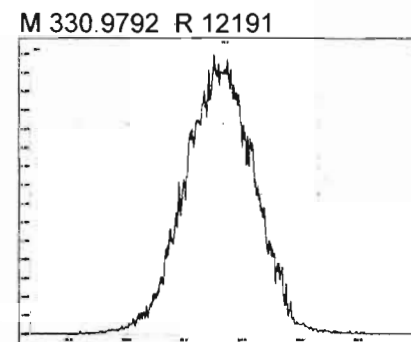
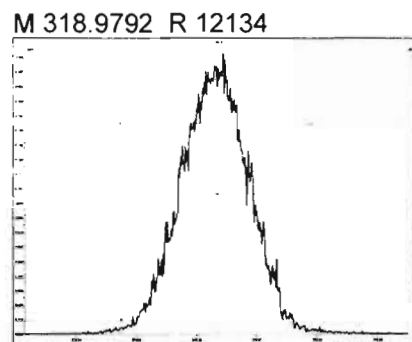
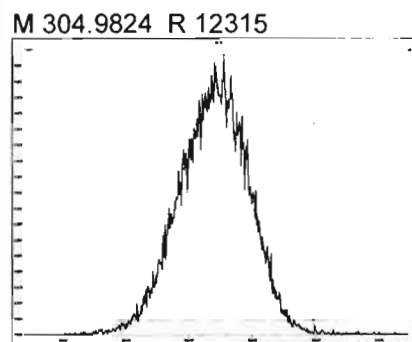
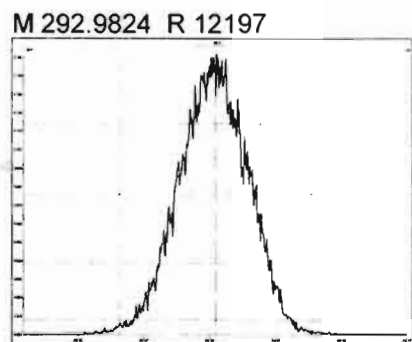
	Name	ID	Acq.Date	Acq.Time
1	200311R3_4	SOLVENT BLANK	11-Mar-20	17:13:26
2	200311R3_5	SOLVENT BLANK	11-Mar-20	17:43:38
3	200311R3_6	CP200311R3_1 225 CPSM	11-Mar-20	18:14:01
4	200311R3_7	ST200311R3_1 1613 CS3 19L2305	11-Mar-20	18:44:28
5	200311R3_8	SOLVENT BLANK	11-Mar-20	19:14:55
6	200311R3_9	1903826-01RE2 PDI-034SC-B-00-02-191022 ...	11-Mar-20	19:45:21
7	200311R3_10	1903826-05RE1 PDI-083SC-B-00-02-191022 ...	11-Mar-20	20:15:49
8	200311R3_11	1903826-06RE1 PDI-083SC-B-02-04-191022 ...	11-Mar-20	20:46:13
9	200311R3_12	1903826-07RE1 PDI-083SC-B-04-06-191022 ...	11-Mar-20	21:16:40
10	200311R3_13	1903826-08RE1 PDI-083SC-B-06-08-191022 ...	11-Mar-20	21:47:04
11	200311R3_14	1903826-09RE1 PDI-099SC-B-00-02-191022 ...	11-Mar-20	22:17:32
12	200311R3_15	1903826-10RE1 PDI-099SC-B-02-04-191022 ...	11-Mar-20	22:48:00
13	200311R3_16	1903826-11RE1 PDI-099SC-B-04-06-191022 ...	11-Mar-20	23:18:24
14	200311R3_17	1903826-12RE1 PDI-099SC-B-06-08-191022 ...	11-Mar-20	23:48:51
15	200311R3_18	1903654-01RE1 PDI-073SC-B-00-02-191013 ...	12-Mar-20	00:19:18
16	200311R3_19	1903654-02RE1 PDI-073SC-B-02-04-191013 ...	12-Mar-20	00:49:46
17	200311R3_20	1903654-04RE1 PDI-073SC-B-06-08-191013 ...	12-Mar-20	01:20:15
18	200311R3_21	1903654-06RE1 PDI-075SC-B-02-04-191013 ...	12-Mar-20	01:50:43
19	200311R3_22	B0A0056-DUP1 Duplicate 16.6	12-Mar-20	02:21:10
20	200311R3_23	1903654-07RE1 PDI-075SC-B-04-06-191013 ...	12-Mar-20	02:51:37
21	200311R3_24	1903654-09RE1 PDI-076SC-B-00-02-191013 ...	12-Mar-20	03:22:06
22	200311R3_25	1903654-10RE1 PDI-076SC-B-02-05-191013 ...	12-Mar-20	03:52:34
23	200311R3_26	1903827-01RE1 PDI-057SC-B-00-02-191023 ...	12-Mar-20	04:22:57
24	200311R3_27	1903827-02RE1 PDI-057SC-B-02-04-191023 ...	12-Mar-20	04:53:25
25	200311R3_28	1903827-03RE1 PDI-057SC-B-04-06-191023 ...	12-Mar-20	05:23:51
26	200311R3_29	1903736-10RE3 PDI-079SC-B-02-04-191014 ...	12-Mar-20	05:54:20

Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: tcdf_db225.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

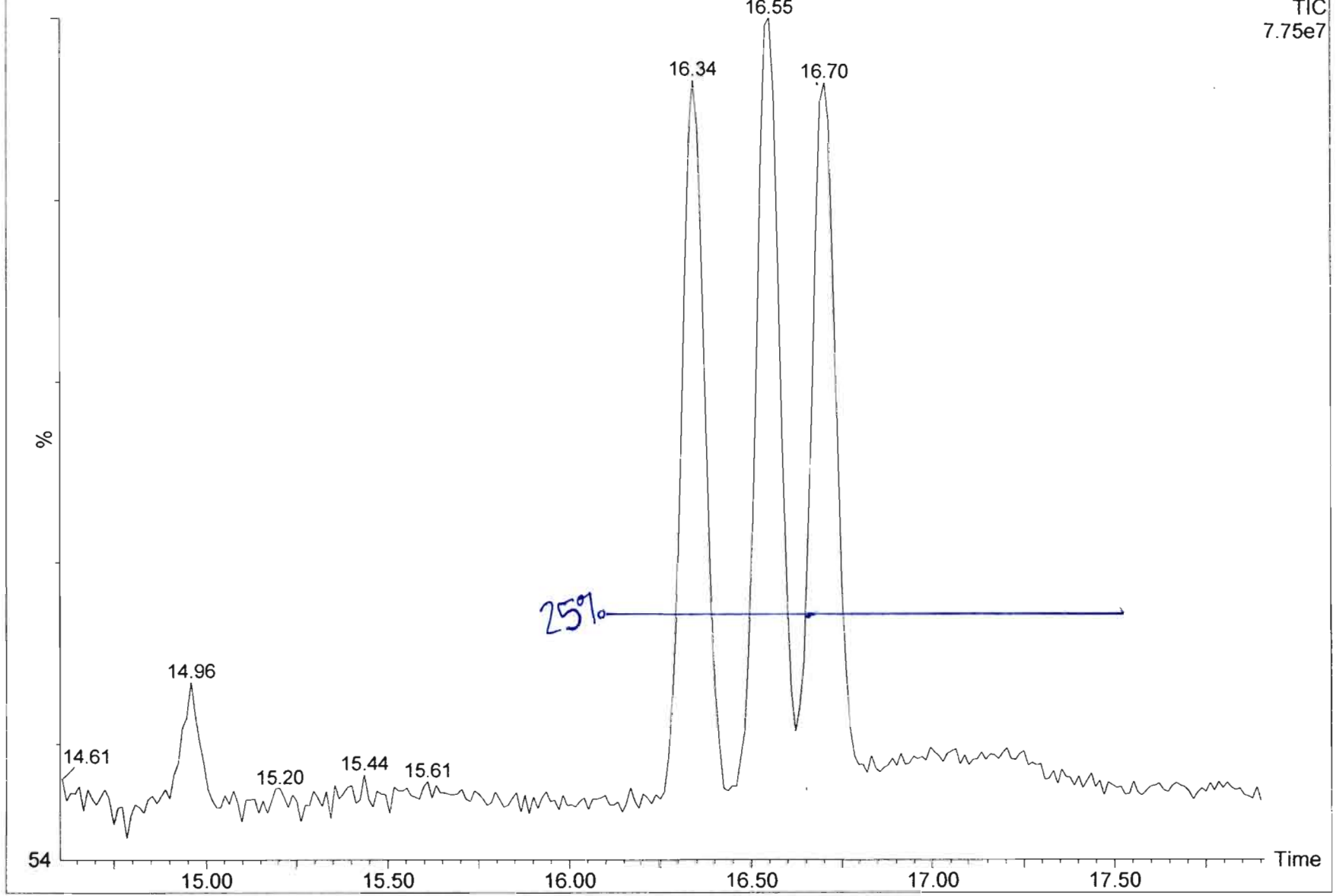
Printed: Wednesday, March 11, 2020 16:47:45 Pacific Daylight Time



GRB 03/12/2020

225 CPSM
200311R3_6

Voltage SIR 12 Channels EI+
TIC
7.75e7



Dataset: Untitled

Last Altered: Thursday, March 12, 2020 07:34:54 Pacific Daylight Time
Printed: Thursday, March 12, 2020 07:35:08 Pacific Daylight Time

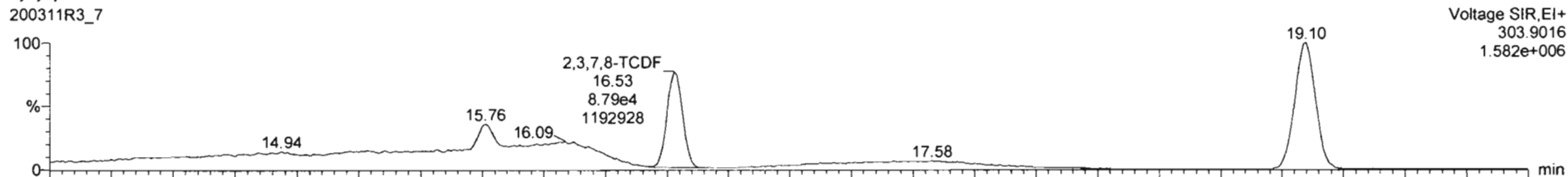
Method: Untitled 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

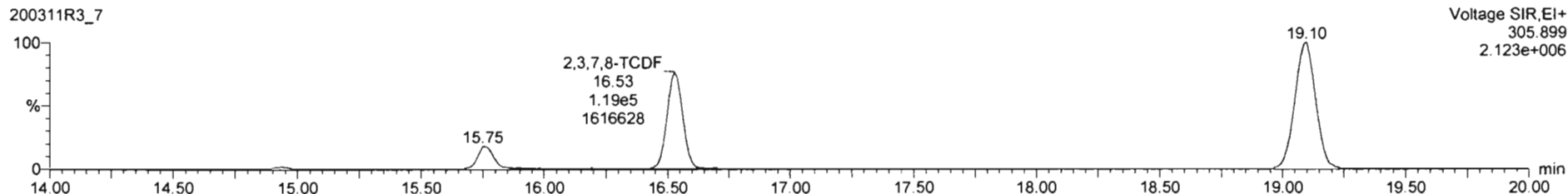
Name: 200311R3_7, Date: 11-Mar-2020, Time: 18:44:28, ID: ST200311R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200311R3_7



200311R3_7

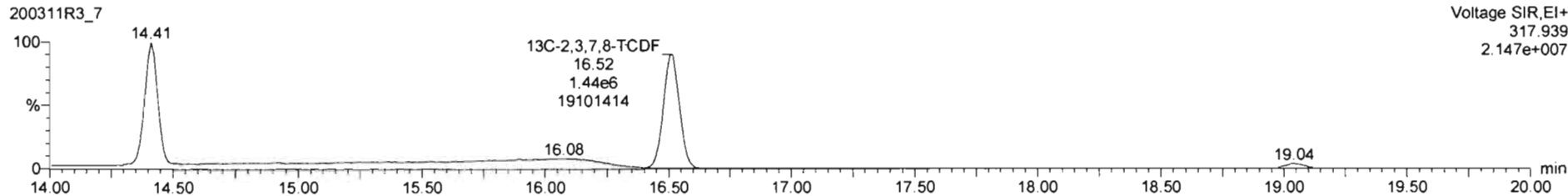


13C-2,3,7,8-TCDF

200311R3_7



200311R3_7



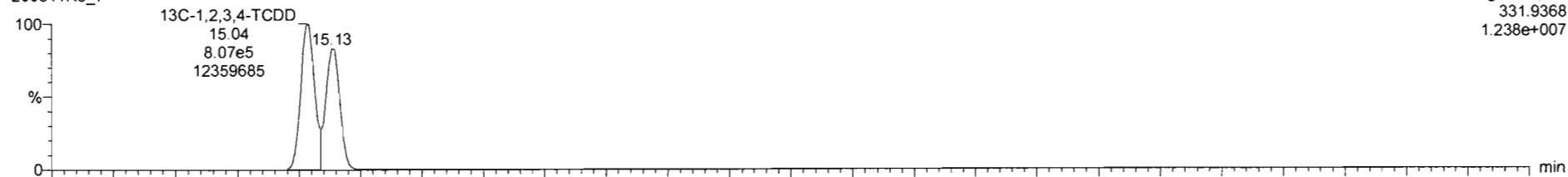
Dataset: Untitled

Last Altered: Thursday, March 12, 2020 07:34:54 Pacific Daylight Time
Printed: Thursday, March 12, 2020 07:35:08 Pacific Daylight Time

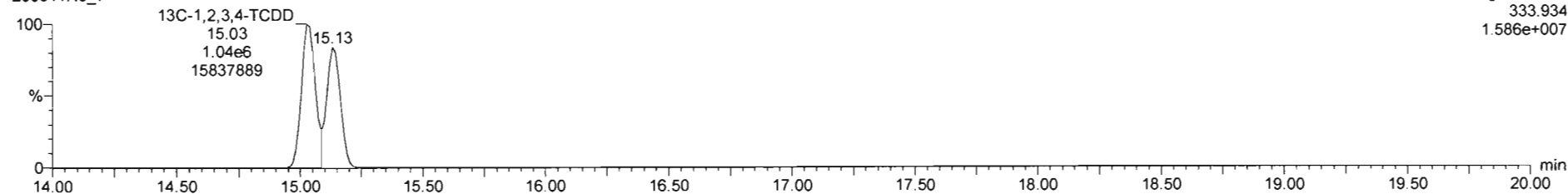
Name: 200311R3_7, Date: 11-Mar-2020, Time: 18:44:28, ID: ST200311R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200311R3_7

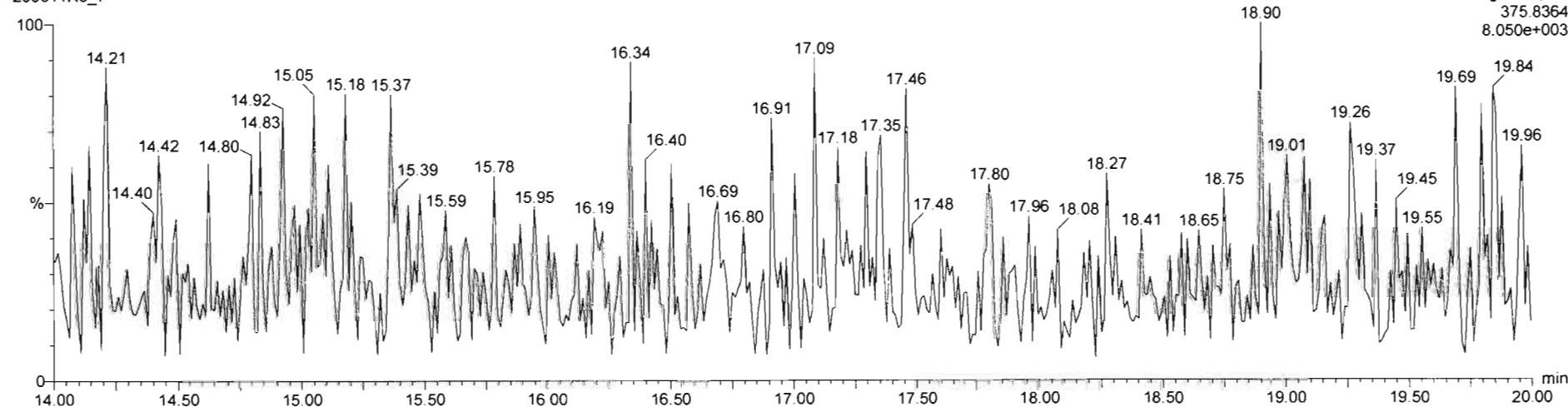


200311R3_7



DPE1

200311R3_7

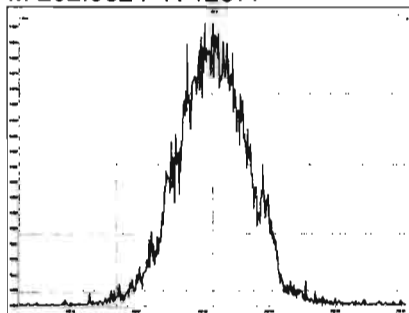


Resolution Check Report

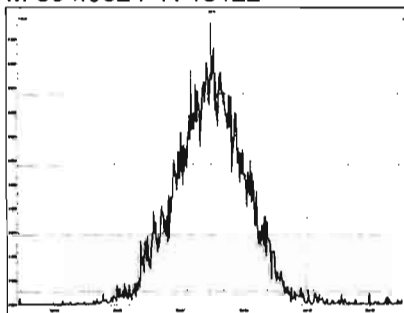
MassLynx 4.1 SCN815

Printed: Thursday, March 12, 2020 06:26:41 Pacific Daylight Time

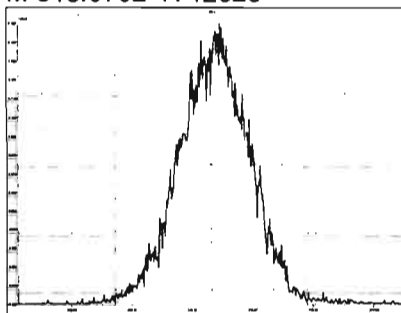
M 292.9824 R 12577



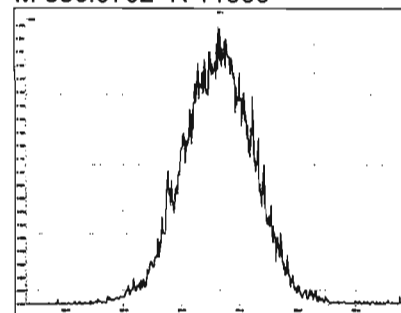
M 304.9824 R 13122



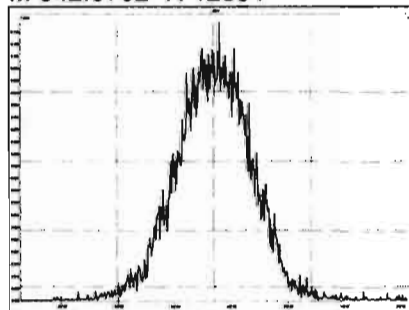
M 318.9792 R 12026



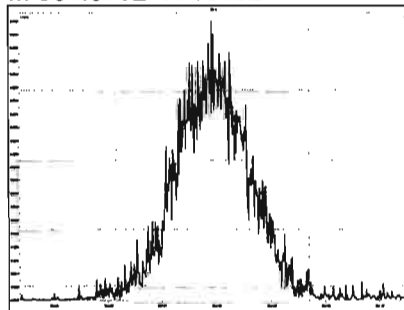
M 330.9792 R 11600



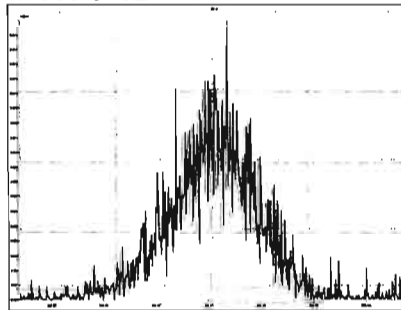
M 342.9792 R 12351



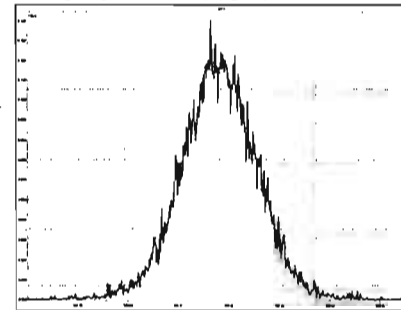
M 354.9792 R 13162



M 366.9792 R 12122



M 380.9760 R 11041



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200324D1-1

Reviewed By: 0703/25/2020
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?	<input checked="" type="checkbox"/> DB	<input type="checkbox"/>
Run Log:		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> V
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> (Y)	<input type="checkbox"/> N
- Bottle position verified?	<input checked="" type="checkbox"/> DB	<input type="checkbox"/>

Mass resolution \geq

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

	<u>Beg.</u>	<u>End</u>
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
GC Break <20%	<input type="checkbox"/>	<input checked="" type="checkbox"/> NA

8280 CS1 End Standard:

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

NA

Comments:

Dataset: U:\VG7.PRO\Results\200324D1\200324D1_2.qld

Last Altered: Tuesday, March 24, 2020 11:18:06 Pacific Daylight Time

Printed: Tuesday, March 24, 2020 11:19:07 Pacific Daylight Time

DB 3/24/20

0703/25/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_2, Date: 24-Mar-2020, Time: 10:54:51, ID: ST200324D1-1 1613 CS3 19L2305, Description: 1613 CS3 19I1604

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	6.64e3	0.81	NO	0.982	1.000	17.794	17.79	1.000	1.001	8.7672	87.7 84 -120	0.175	8.77
2	2 13C-2,3,7,8-TCDF	7.71e4	0.77	NO	1.08	1.000	17.782	17.77	1.133	1.138	100.47	100 71 -140	0.609	
3	3 13C-1,2,3,4-TCDF	7.09e4	0.80	NO	1.00	1.000	15.660	15.62	1.000	1.000	100.00	100	0.659	

Dataset: Untitled

Last Altered: Wednesday, March 25, 2020 09:26:20 Pacific Daylight Time

Printed: Wednesday, March 25, 2020 09:26:37 Pacific Daylight Time

Method: C:\MassLynx\Default.PROMethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

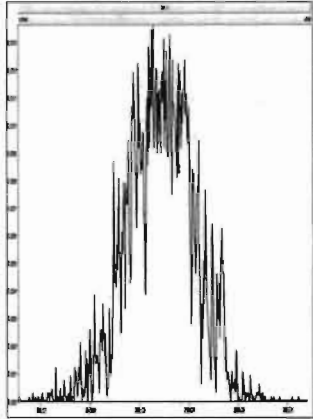
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200324D1_1	CP200324D1-1 DB-225 CPSM	24-Mar-20	10:24:42
2	200324D1_2	ST200324D1-1 1613 CS3 19L2305	24-Mar-20	10:54:51
3	200324D1_3	SOLVENT BLANK	24-Mar-20	11:26:29
4	200324D1_4	2000144-12RE1 PDI-082SC-A-05-06-191002 ...	24-Mar-20	11:58:14
5	200324D1_5	2000143-04RE1 PDI-031SC-A-03-04-191017 ...	24-Mar-20	12:29:54
6	200324D1_6	2000143-19RE1 PDI-049SC-A-02-03-191015 ...	24-Mar-20	13:01:37
7	200324D1_7	2000143-19RE1 PDI-049SC-A-02-03-191015 ...	24-Mar-20	13:33:23
8	200324D1_8	1903654-05RE4 PDI-075SC-B-00-02-191013 ...	24-Mar-20	14:05:06
9	200324D1_9	1903654-08RE4 PDI-075SC-B-06-08-191013 ...	24-Mar-20	14:36:46
10	200324D1_10	1903654-11RE4 PDI-076SC-B-05-07-191013 ...	24-Mar-20	15:08:29
11	200324D1_11	1903827-05RE4 PDI-062SC-B-00-02-191023 ...	24-Mar-20	15:40:10
12	200324D1_12	1904161-16RE6 PDI-066SC-A-06-07-191011 ...	24-Mar-20	16:11:48
13	200324D1_13	2000195-05RE1 PDI-074SC-A-06-07-191012 ...	24-Mar-20	16:43:30
14	200324D1_14	2000195-07RE1 PDI-076SC-A-08-09-191013 ...	24-Mar-20	17:15:12
15	200324D1_15	2000195-08RE1 PDI-076SC-A-09-10-191013 ...	24-Mar-20	17:46:53
16	200324D1_16	2000195-09RE1 PDI-100SC-J-04-05-190926 ...	24-Mar-20	18:18:36

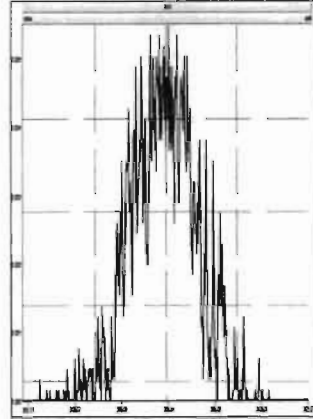
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, March 24, 2020 10:23:51 Pacific Daylight Time

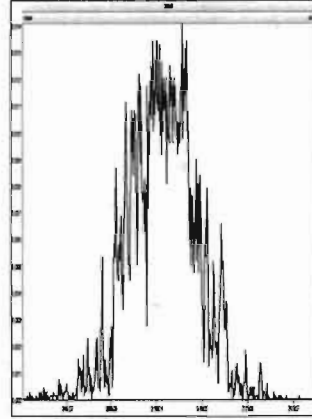
M 292.9824 R 13509



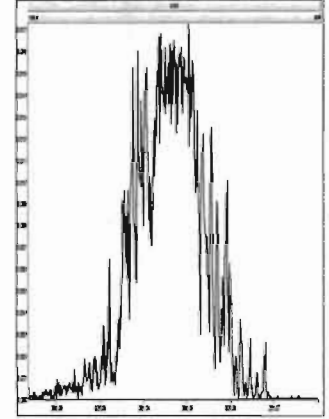
M 304.9824 R 13441



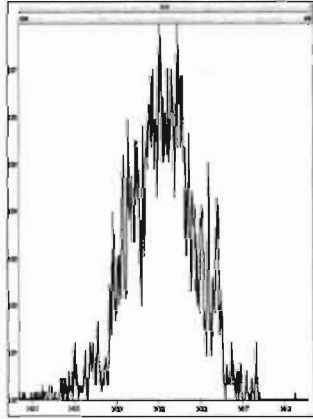
M 318.9792 R 13811



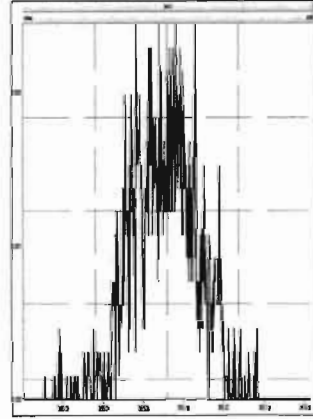
M 330.9792 R 12138



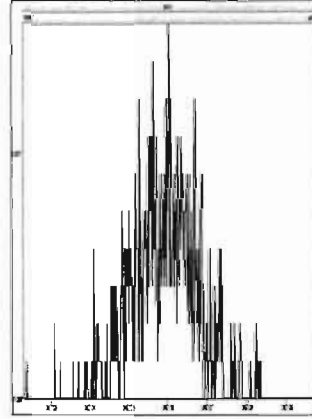
M 342.9792 R 11905



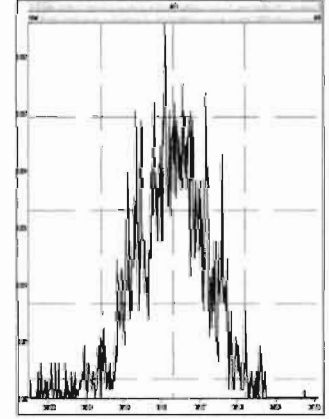
M 354.9792 R 11847

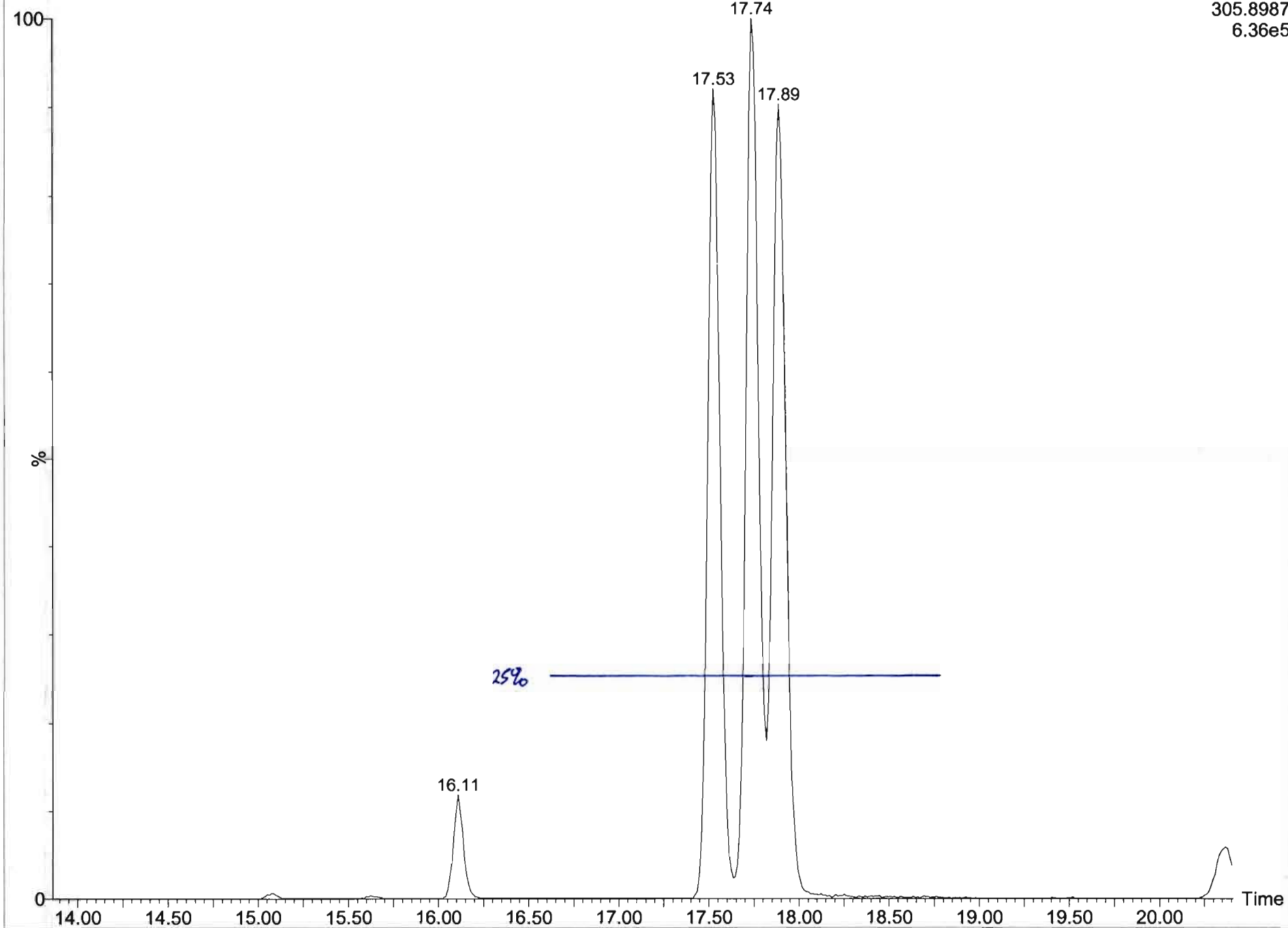


M 366.9792 R 15247



M 380.9760 R 12015





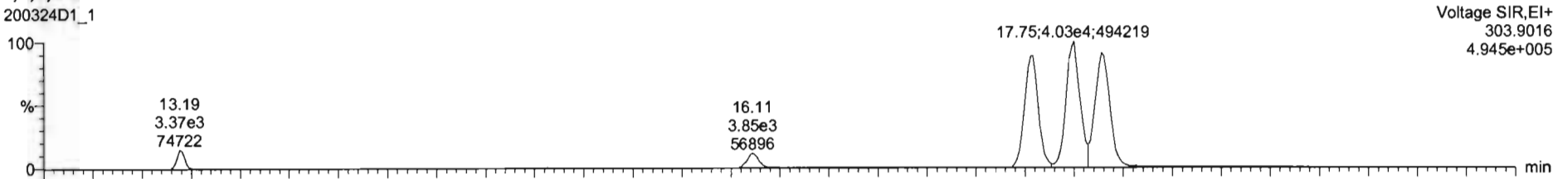
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_1.qld

Last Altered: Tuesday, March 24, 2020 10:58:54 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 11:02:27 Pacific Daylight Time

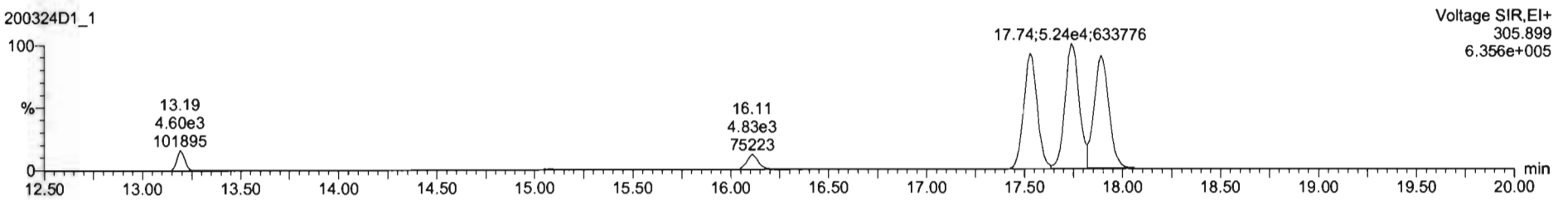
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Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

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2,3,7,8-TCDF
200324D1_1

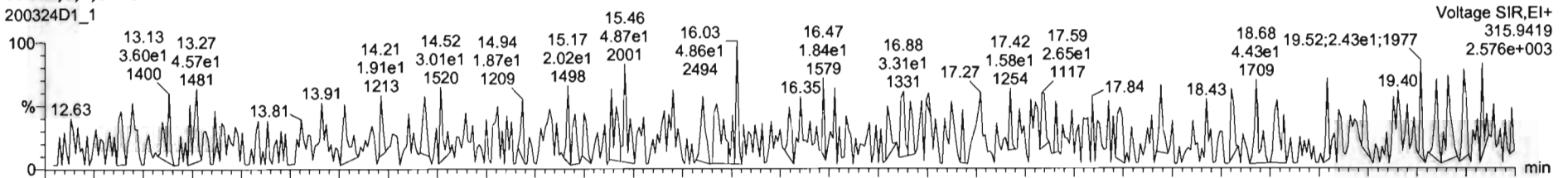


200324D1_1

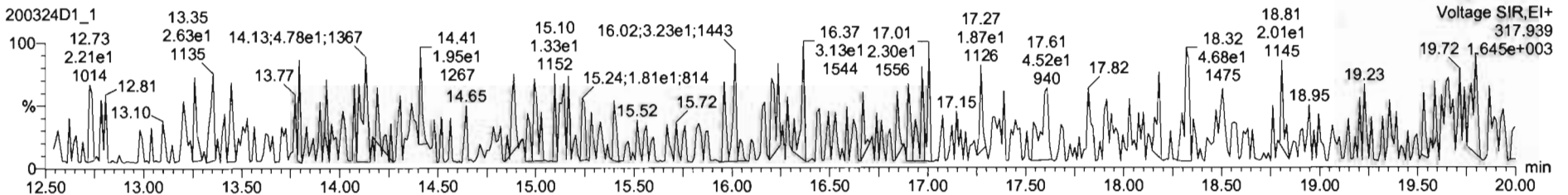


13C-2,3,7,8-TCDF

200324D1_1



200324D1_1



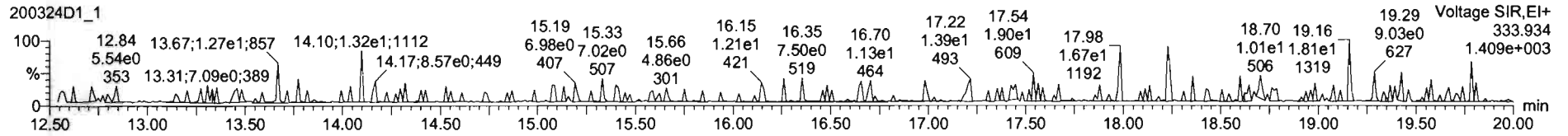
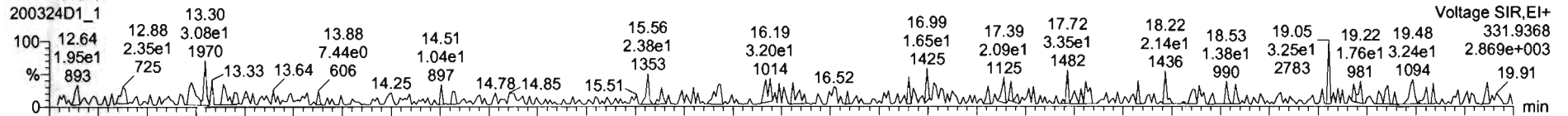
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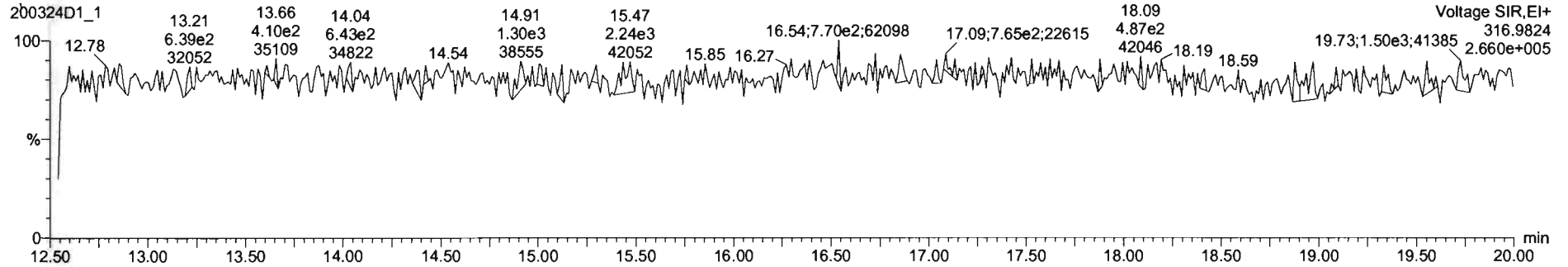
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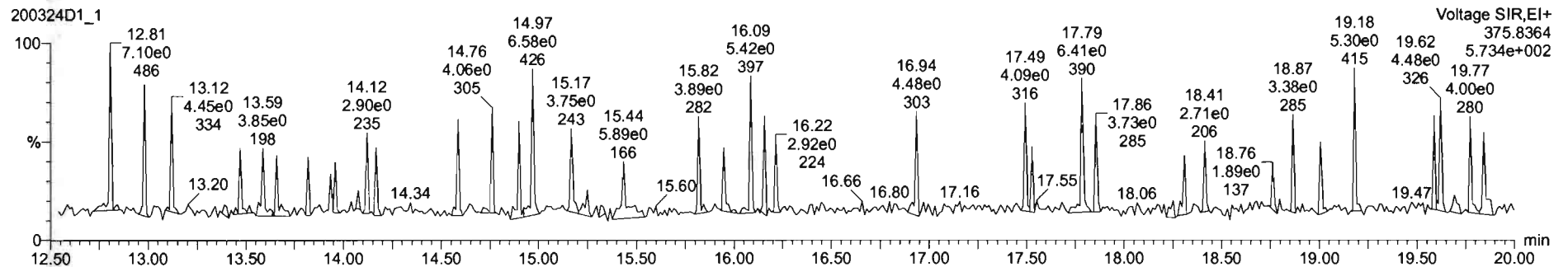
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200324D1\200324D1_2.qld

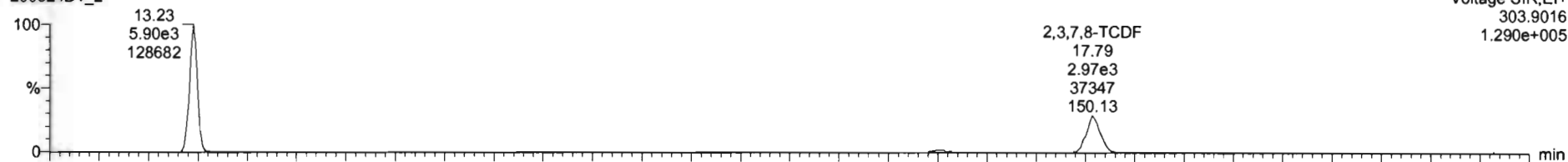
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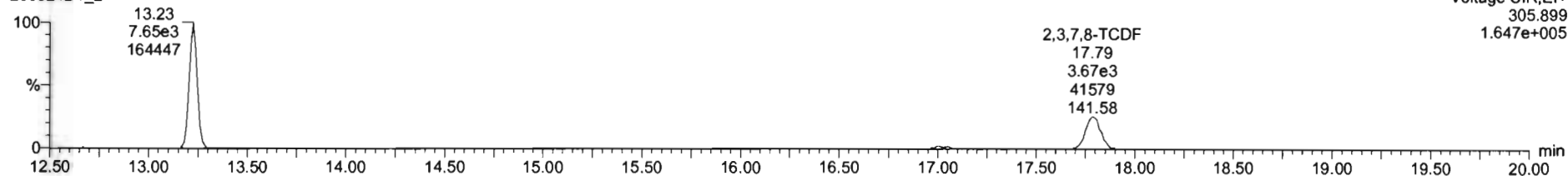
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2,3,7,8-TCDF

200324D1_2

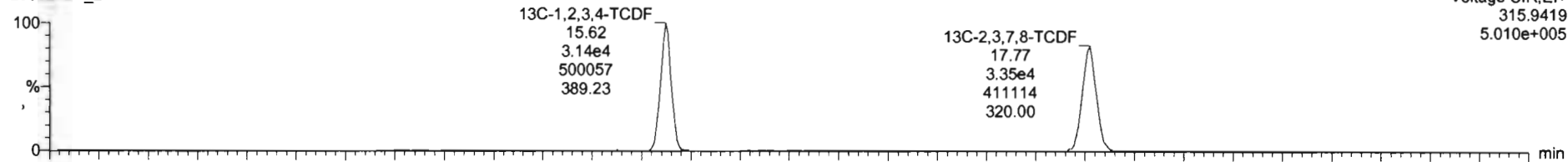


200324D1_2

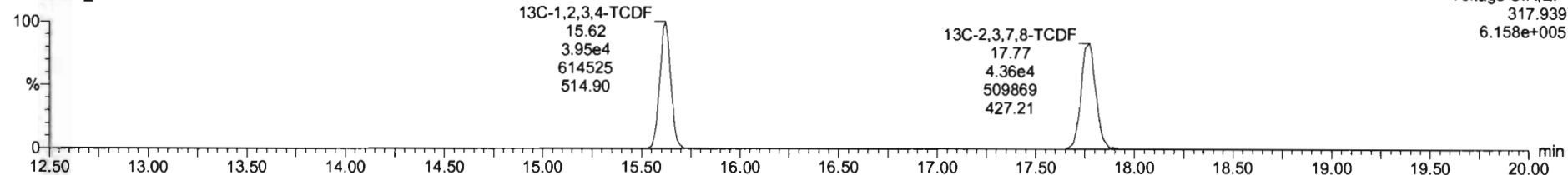


13C-2,3,7,8-TCDF

200324D1_2



200324D1_2



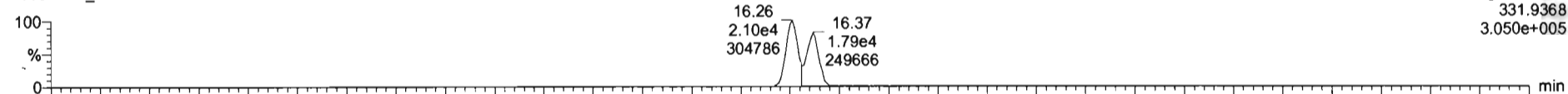
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Last Altered: Tuesday, March 24, 2020 11:18:06 Pacific Daylight Time
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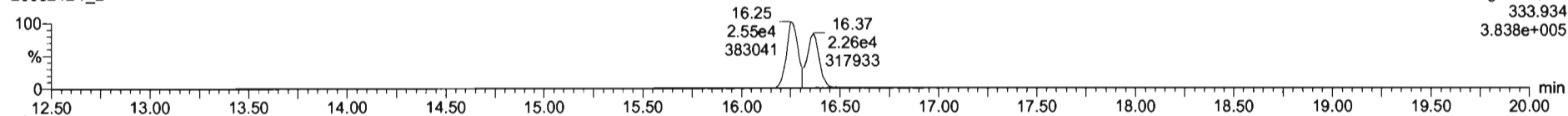
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13C-1,2,3,4-TCDD

200324D1_2

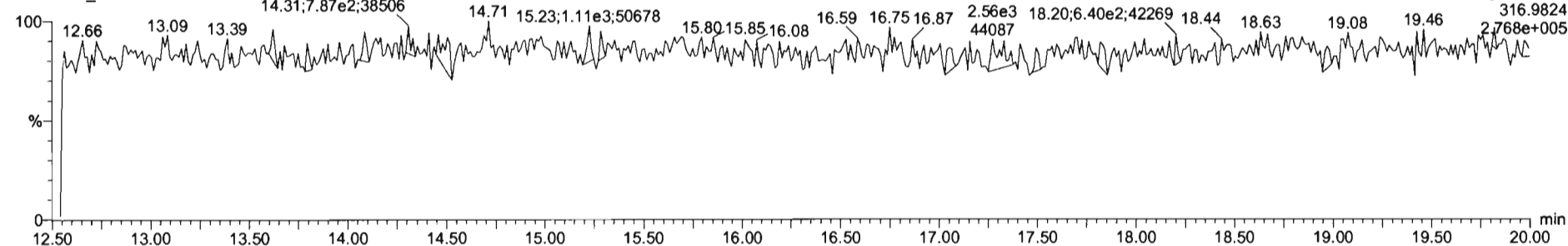


200324D1_2



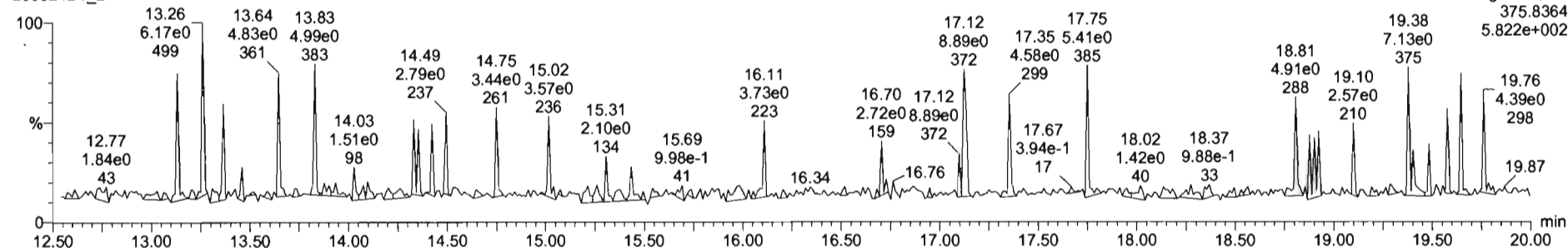
PFK1

200324D1_2



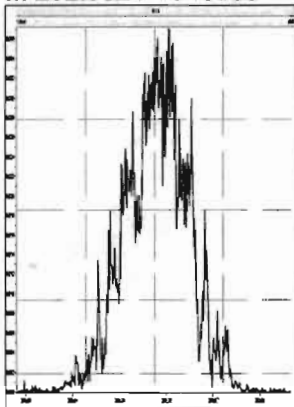
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200324D1_2

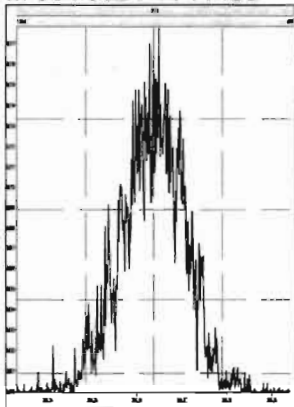


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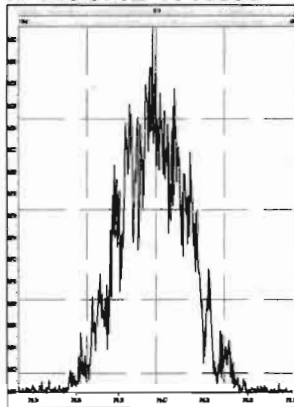
M 292.9824 R 10838



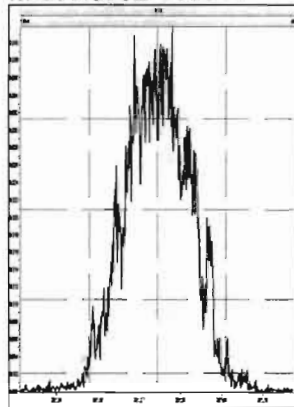
M 304.9824 R 11485



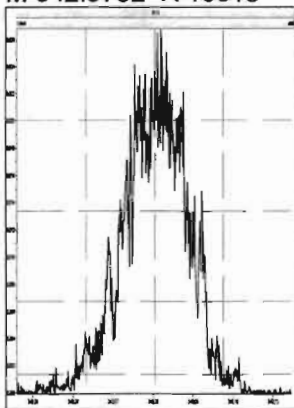
M 318.9792 R 10595



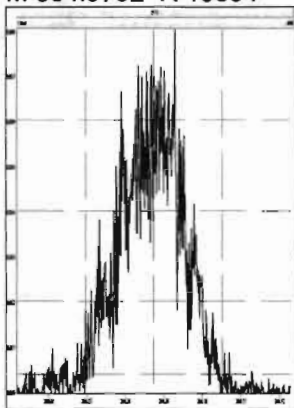
M 330.9792 R 9777



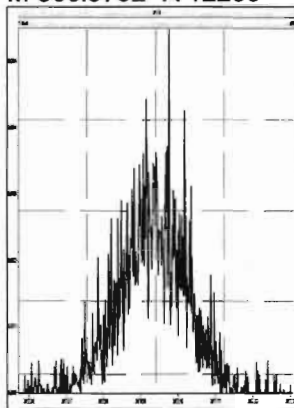
M 342.9792 R 10518



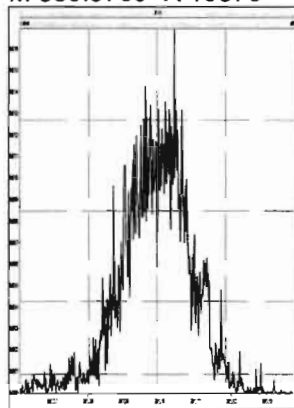
M 354.9792 R 10894



M 366.9792 R 12233



M 380.9760 R 10376



INITIAL CALIBRATION

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

GRB 02/02/2020

C: 02/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

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

Response Factor: 0.988069

RRF SD: 0.0483829, Relative SD: 4.89671

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	200131R1_1	0.250	0.83	NO	25.74	1.001	2.87e3	1.21e6	0.239	-4.3	0.945	bb
2	200131R1_2	0.500	0.77	NO	25.69	1.001	7.22e3	1.37e6	0.532	6.5	1.05	bb
3	200131R1_3	2.00	0.80	NO	25.70	1.001	3.00e4	1.44e6	2.11	5.7	1.04	bb
4	200131R1_4	10.0	0.78	NO	25.70	1.001	1.39e5	1.42e6	9.92	-0.8	0.980	db
5	200131R1_5	40.0	0.77	NO	25.69	1.001	5.51e5	1.45e6	38.3	-4.2	0.946	bb
6	200131R1_6	300	0.78	NO	25.70	1.001	5.05e6	1.75e6	291	-2.9	0.960	bb

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

Response Factor: 0.972284

RRF SD: 0.054098, Relative SD: 5.56402

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	200131R1_1	1.25	0.57	NO	30.67	1.000	1.12e4	9.52e5	1.21	-3.0	0.943	bb
2	200131R1_2	2.50	0.60	NO	30.64	1.001	2.75e4	1.05e6	2.70	7.9	1.05	bb
3	200131R1_3	10.0	0.63	NO	30.64	1.000	1.18e5	1.14e6	10.6	6.4	1.03	bb
4	200131R1_4	50.0	0.63	NO	30.64	1.000	5.09e5	1.09e6	48.2	-3.7	0.936	bb
5	200131R1_5	200	0.63	NO	30.62	1.000	2.30e6	1.23e6	192	-4.2	0.931	bb
6	200131R1_6	1500	0.63	NO	30.64	1.000	2.16e7	1.53e6	1450	-3.4	0.940	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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

Response Factor: 1.07079
 RRF SD: 0.0439702, Relative SD: 4.10634
 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	200131R1_1	1.25	1.18	NO	34.01	1.001	9.84e3	7.72e5	1.19	-4.8	1.02	MM
2	200131R1_2	2.50	1.28	NO	33.98	1.001	2.47e4	8.79e5	2.62	4.9	1.12	bd
3	200131R1_3	10.0	1.23	NO	33.98	1.000	1.09e5	9.69e5	10.5	5.2	1.13	bd
4	200131R1_4	50.0	1.22	NO	33.99	1.000	4.82e5	9.08e5	49.6	-0.8	1.06	bd
5	200131R1_5	200	1.27	NO	33.97	1.000	2.18e6	1.04e6	195	-2.7	1.04	bd
6	200131R1_6	1500	1.21	NO	33.99	1.000	2.05e7	1.30e6	1470	-1.8	1.05	bd

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

Response Factor: 0.921124
 RRF SD: 0.0705821, Relative SD: 7.66261
 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	200131R1_1	1.25	1.14	NO	34.10	1.000	1.01e4	9.31e5	1.18	-5.8	0.868	MM
2	200131R1_2	2.50	1.28	NO	34.08	1.001	2.68e4	1.05e6	2.78	11.2	1.02	db
3	200131R1_3	10.0	1.21	NO	34.08	1.000	1.13e5	1.13e6	10.8	8.3	0.998	db
4	200131R1_4	50.0	1.22	NO	34.09	1.001	4.87e5	1.11e6	47.7	-4.7	0.878	db
5	200131R1_5	200	1.17	NO	34.07	1.000	2.21e6	1.24e6	193	-3.4	0.890	db
6	200131R1_6	1500	1.22	NO	34.09	1.001	2.03e7	1.56e6	1410	-5.7	0.868	db

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

Response Factor: 0.9182
 RRF SD: 0.0596016, Relative SD: 6.49114
 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	200131R1_1	1.25	1.36	NO	34.38	1.000	9.78e3	9.08e5	1.17	-6.1	0.862	MM
2	200131R1_2	2.50	1.21	NO	34.35	1.000	2.43e4	9.77e5	2.71	8.3	0.995	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard 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	200131R1_3	10.0	1.18	NO	34.36	1.000	1.03e5	1.04e6	10.8	8.0	0.991	bb
4	200131R1_4	50.0	1.22	NO	34.37	1.001	4.43e5	1.02e6	47.4	-5.3	0.870	bb
5	200131R1_5	200	1.22	NO	34.35	1.001	2.05e6	1.15e6	195	-2.7	0.893	bb
6	200131R1_6	1500	1.22	NO	34.37	1.001	1.94e7	1.44e6	1470	-2.2	0.898	bb

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

Response Factor: 0.923064
 RRF SD: 0.0512135, Relative SD: 5.54821
 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	200131R1_1	1.25	1.04	NO	37.92	1.000	8.20e3	7.05e5	1.26	0.7	0.930	bb
2	200131R1_2	2.50	1.06	NO	37.88	1.000	1.88e4	7.60e5	2.69	7.4	0.991	bb
3	200131R1_3	10.0	1.02	NO	37.90	1.001	7.44e4	7.62e5	10.6	5.8	0.976	bb
4	200131R1_4	50.0	1.01	NO	37.90	1.000	3.45e5	7.83e5	47.7	-4.7	0.880	bb
5	200131R1_5	200	1.00	NO	37.88	1.000	1.57e6	8.87e5	192	-4.0	0.886	bb
6	200131R1_6	1500	1.01	NO	37.91	1.001	1.45e7	1.10e6	1420	-5.2	0.875	bb

Compound name: OCDD

Response Factor: 0.974578
 RRF SD: 0.0610366, Relative SD: 6.26287
 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	200131R1_1	2.50	0.90	NO	40.92	1.000	1.61e4	1.29e6	2.55	2.2	0.996	bd
2	200131R1_2	5.00	0.89	NO	40.90	1.000	3.84e4	1.46e6	5.41	8.2	1.05	bd
3	200131R1_3	20.0	0.88	NO	40.90	1.000	1.46e5	1.41e6	21.2	5.9	1.03	bd
4	200131R1_4	100	0.86	NO	40.90	1.000	6.76e5	1.48e6	93.7	-6.3	0.914	MM
5	200131R1_5	400	0.87	NO	40.90	1.000	3.13e6	1.69e6	379	-5.2	0.924	bb
6	200131R1_6	3000	0.83	NO	40.92	1.000	2.97e7	2.14e6	2850	-4.8	0.927	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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

Response Factor: 0.801975

RRF SD: 0.0524877, Relative SD: 6.54481

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	200131R1_1	0.250	0.73	NO	24.85	1.001	3.48e3	1.69e6	0.257	2.8	0.824	bb
2	200131R1_2	0.500	0.74	NO	24.82	1.001	8.24e3	1.87e6	0.549	9.9	0.881	bb
3	200131R1_3	2.00	0.71	NO	24.82	1.001	3.25e4	1.95e6	2.08	4.0	0.834	bb
4	200131R1_4	10.0	0.73	NO	24.82	1.001	1.47e5	1.92e6	9.50	-5.0	0.762	bb
5	200131R1_5	40.0	0.74	NO	24.81	1.001	5.87e5	1.96e6	37.3	-6.7	0.748	bb
6	200131R1_6	300	0.74	NO	24.82	1.001	5.37e6	2.35e6	285	-4.9	0.763	bb

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

Response Factor: 0.907368

RRF SD: 0.0556686, Relative SD: 6.13518

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	200131R1_1	1.25	1.54	NO	29.39	1.000	1.54e4	1.46e6	1.16	-7.1	0.843	MM
2	200131R1_2	2.50	1.49	NO	29.35	1.000	4.02e4	1.66e6	2.66	6.5	0.967	bb
3	200131R1_3	10.0	1.55	NO	29.35	1.000	1.82e5	1.85e6	10.8	8.5	0.984	bb
4	200131R1_4	50.0	1.54	NO	29.37	1.000	7.66e5	1.72e6	49.2	-1.7	0.892	bb
5	200131R1_5	200	1.53	NO	29.34	1.000	3.44e6	1.96e6	193	-3.5	0.875	bb
6	200131R1_6	1500	1.52	NO	29.37	1.000	3.24e7	2.45e6	1460	-2.7	0.883	bb

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

Response Factor: 0.951581

RRF SD: 0.0710528, Relative SD: 7.46682

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	200131R1_1	1.25	1.39	NO	30.36	1.000	1.52e4	1.40e6	1.14	-9.0	0.866	bb
2	200131R1_2	2.50	1.49	NO	30.33	1.000	4.18e4	1.60e6	2.74	9.7	1.04	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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	200131R1_3	10.0	1.52	NO	30.33	1.000	1.83e5	1.77e6	10.9	8.5	1.03	bb
4	200131R1_4	50.0	1.52	NO	30.33	1.000	7.42e5	1.63e6	48.0	-4.1	0.913	bb
5	200131R1_5	200	1.52	NO	30.32	1.000	3.55e6	1.92e6	195	-2.7	0.926	bb
6	200131R1_6	1500	1.53	NO	30.33	1.000	3.27e7	2.35e6	1460	-2.5	0.928	bb

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

Response Factor: 0.862294

RRF SD: 0.0432122, Relative SD: 5.0113

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	200131R1_1	1.25	1.16	NO	33.13	1.000	1.04e4	9.82e5	1.22	-2.1	0.844	MM
2	200131R1_2	2.50	1.16	NO	33.10	1.000	2.37e4	1.03e6	2.66	6.4	0.917	bd
3	200131R1_3	10.0	1.18	NO	33.11	1.000	1.05e5	1.14e6	10.6	6.5	0.918	bd
4	200131R1_4	50.0	1.16	NO	33.13	1.000	4.53e5	1.09e6	48.4	-3.3	0.834	dd
5	200131R1_5	200	1.16	NO	33.10	1.001	2.04e6	1.23e6	192	-4.1	0.827	bd
6	200131R1_6	1500	1.16	NO	33.12	1.000	1.94e7	1.55e6	1450	-3.4	0.833	bd

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

Response Factor: 0.841382

RRF SD: 0.0466581, Relative SD: 5.54541

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	200131R1_1	1.25	1.21	NO	33.26	1.001	1.06e4	1.07e6	1.17	-6.2	0.789	MM
2	200131R1_2	2.50	1.19	NO	33.23	1.001	2.67e4	1.18e6	2.69	7.5	0.904	MM
3	200131R1_3	10.0	1.15	NO	33.24	1.001	1.15e5	1.29e6	10.6	6.3	0.894	db
4	200131R1_4	50.0	1.16	NO	33.24	1.000	5.01e5	1.23e6	48.3	-3.3	0.813	db
5	200131R1_5	200	1.15	NO	33.22	1.000	2.41e6	1.46e6	196	-1.9	0.825	db
6	200131R1_6	1500	1.16	NO	33.24	1.000	2.16e7	1.75e6	1470	-2.3	0.822	db

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

Response Factor: 0.898194

RRF SD: 0.0533025, Relative SD: 5.9344

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	200131R1_1	1.25	1.07	NO	33.84	1.000	1.01e4	9.62e5	1.17	-6.1	0.844	bb
2	200131R1_2	2.50	1.21	NO	33.81	1.000	2.55e4	1.06e6	2.67	6.7	0.958	bb
3	200131R1_3	10.0	1.14	NO	33.82	1.001	1.14e5	1.17e6	10.8	8.3	0.972	bb
4	200131R1_4	50.0	1.16	NO	33.82	1.000	4.82e5	1.11e6	48.4	-3.3	0.869	bb
5	200131R1_5	200	1.17	NO	33.80	1.000	2.21e6	1.27e6	194	-2.8	0.873	bb
6	200131R1_6	1500	1.17	NO	33.82	1.000	2.08e7	1.59e6	1460	-2.8	0.873	bb

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

Response Factor: 0.857779

RRF SD: 0.0530165, Relative SD: 6.18067

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	200131R1_1	1.25	1.12	NO	34.74	1.000	9.51e3	8.96e5	1.24	-1.0	0.849	bb
2	200131R1_2	2.50	1.18	NO	34.71	1.000	2.15e4	9.11e5	2.76	10.2	0.946	bb
3	200131R1_3	10.0	1.17	NO	34.72	1.001	8.71e4	9.71e5	10.5	4.6	0.897	MM
4	200131R1_4	50.0	1.15	NO	34.72	1.000	3.90e5	9.57e5	47.6	-4.9	0.816	bb
5	200131R1_5	200	1.16	NO	34.70	1.000	1.74e6	1.06e6	191	-4.6	0.818	bb
6	200131R1_6	1500	1.17	NO	34.72	1.000	1.68e7	1.37e6	1430	-4.4	0.820	bb

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

Response Factor: 0.851072

RRF SD: 0.0458765, Relative SD: 5.39044

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	200131R1_1	1.25	0.94	NO	36.48	1.000	7.60e3	7.37e5	1.21	-3.0	0.826	bb
2	200131R1_2	2.50	0.99	NO	36.47	1.001	1.79e4	7.82e5	2.70	7.9	0.918	bd

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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	200131R1_3	10.0	0.96	NO	36.46	1.000	7.21e4	8.00e5	10.6	5.9	0.901	bd
4	200131R1_4	50.0	0.96	NO	36.47	1.001	3.29e5	8.01e5	48.2	-3.5	0.821	bb
5	200131R1_5	200	0.97	NO	36.45	1.000	1.46e6	8.88e5	193	-3.4	0.822	bb
6	200131R1_6	1500	0.96	NO	36.47	1.000	1.37e7	1.12e6	1440	-3.9	0.818	bb

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

Response Factor: 0.979894

RRF SD: 0.0488516, Relative SD: 4.9854

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	200131R1_1	1.25	0.96	NO	38.50	1.000	5.89e3	5.04e5	1.19	-4.7	0.934	MM
2	200131R1_2	2.50	0.97	NO	38.48	1.000	1.47e4	5.63e5	2.66	6.4	1.04	bb
3	200131R1_3	10.0	0.96	NO	38.49	1.000	5.91e4	5.68e5	10.6	6.2	1.04	bb
4	200131R1_4	50.0	0.97	NO	38.50	1.000	2.74e5	5.80e5	48.2	-3.6	0.945	bb
5	200131R1_5	200	0.96	NO	38.48	1.000	1.25e6	6.58e5	194	-2.9	0.952	bb
6	200131R1_6	1500	0.96	NO	38.50	1.000	1.20e7	8.31e5	1480	-1.5	0.966	bb

Compound name: OCDF

Response Factor: 0.805548

RRF SD: 0.0471476, Relative SD: 5.85286

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	200131R1_1	2.50	0.85	NO	41.10	1.000	1.39e4	1.44e6	2.40	-4.0	0.773	bb
2	200131R1_2	5.00	0.87	NO	41.08	1.000	3.50e4	1.59e6	5.46	9.2	0.880	bb
3	200131R1_3	20.0	0.87	NO	41.09	1.000	1.37e5	1.61e6	21.1	5.5	0.850	MM
4	200131R1_4	100	0.85	NO	41.10	1.000	6.45e5	1.67e6	95.6	-4.4	0.770	bb
5	200131R1_5	400	0.86	NO	41.09	1.000	2.92e6	1.87e6	388	-3.1	0.781	bb
6	200131R1_6	3000	0.86	NO	41.10	1.000	2.81e7	2.40e6	2900	-3.3	0.779	bb

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

Response Factor: 1.19852

RRF SD: 0.0939444, Relative SD: 7.83835

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	200131R1_1	100	0.79	NO	25.72	1.026	1.21e6	9.30e5	109	9.0	1.31	bb
2	200131R1_2	100	0.79	NO	25.67	1.026	1.37e6	1.27e6	90.2	-9.8	1.08	bb
3	200131R1_3	100	0.79	NO	25.67	1.026	1.44e6	1.31e6	91.3	-8.7	1.09	bb
4	200131R1_4	100	0.79	NO	25.67	1.026	1.42e6	1.19e6	99.9	-0.1	1.20	bb
5	200131R1_5	100	0.80	NO	25.66	1.026	1.45e6	1.18e6	103	2.7	1.23	bb
6	200131R1_6	100	0.78	NO	25.69	1.026	1.75e6	1.37e6	107	6.9	1.28	bb

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

Response Factor: 0.966657

RRF SD: 0.113301, Relative SD: 11.7209

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	200131R1_1	100	0.64	NO	30.65	1.222	9.52e5	9.30e5	106	5.9	1.02	bb
2	200131R1_2	100	0.63	NO	30.61	1.223	1.05e6	1.27e6	85.4	-14.6	0.826	bb
3	200131R1_3	100	0.64	NO	30.62	1.223	1.14e6	1.31e6	90.0	-10.0	0.870	bb
4	200131R1_4	100	0.65	NO	30.62	1.223	1.09e6	1.19e6	95.0	-5.0	0.918	bb
5	200131R1_5	100	0.64	NO	30.61	1.223	1.23e6	1.18e6	108	7.9	1.04	bb
6	200131R1_6	100	0.64	NO	30.62	1.223	1.53e6	1.37e6	116	15.8	1.12	bb

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

Response Factor: 0.873915

RRF SD: 0.0797425, Relative SD: 9.12474

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	200131R1_1	100	1.26	NO	33.99	1.014	7.72e5	8.41e5	105	5.1	0.918	bd
2	200131R1_2	100	1.27	NO	33.96	1.014	8.79e5	1.13e6	89.1	-10.9	0.778	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	200131R1_3	100	1.28	NO	33.97	1.014	9.69e5	1.23e6	90.5	-9.5	0.791	bd
4	200131R1_4	100	1.26	NO	33.98	1.014	9.08e5	1.05e6	98.8	-1.2	0.863	bd
5	200131R1_5	100	1.27	NO	33.96	1.014	1.04e6	1.15e6	104	3.8	0.907	bd
6	200131R1_6	100	1.28	NO	33.98	1.014	1.30e6	1.32e6	113	12.8	0.986	bd

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

Response Factor: 1.04579
 RRF SD: 0.10317, Relative SD: 9.86527
 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	200131R1_1	100	1.24	NO	34.09	1.017	9.31e5	8.41e5	106	5.9	1.11	db
2	200131R1_2	100	1.25	NO	34.06	1.017	1.05e6	1.13e6	88.6	-11.4	0.927	db
3	200131R1_3	100	1.25	NO	34.07	1.017	1.13e6	1.23e6	88.2	-11.8	0.923	db
4	200131R1_4	100	1.25	NO	34.07	1.017	1.11e6	1.05e6	101	0.9	1.05	db
5	200131R1_5	100	1.26	NO	34.06	1.017	1.24e6	1.15e6	103	3.3	1.08	db
6	200131R1_6	100	1.27	NO	34.07	1.017	1.56e6	1.32e6	113	13.1	1.18	db

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

Response Factor: 0.974375
 RRF SD: 0.10254, Relative SD: 10.5236
 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	200131R1_1	100	1.26	NO	34.37	1.025	9.08e5	8.41e5	111	10.8	1.08	bb
2	200131R1_2	100	1.24	NO	34.34	1.025	9.77e5	1.13e6	88.8	-11.2	0.865	bb
3	200131R1_3	100	1.23	NO	34.35	1.025	1.04e6	1.23e6	87.1	-12.9	0.848	bb
4	200131R1_4	100	1.26	NO	34.35	1.025	1.02e6	1.05e6	99.4	-0.6	0.968	bb
5	200131R1_5	100	1.22	NO	34.33	1.025	1.15e6	1.15e6	102	2.1	0.995	bb
6	200131R1_6	100	1.27	NO	34.35	1.025	1.44e6	1.32e6	112	11.8	1.09	bb

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

Response Factor: 0.747228

RRF SD: 0.0868418, Relative SD: 11.6219

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	200131R1_1	100	1.04	NO	37.91	1.131	7.05e5	8.41e5	112	12.3	0.839	bb
2	200131R1_2	100	1.03	NO	37.88	1.131	7.60e5	1.13e6	90.0	-10.0	0.673	bb
3	200131R1_3	100	1.05	NO	37.88	1.131	7.62e5	1.23e6	83.2	-16.8	0.622	bb
4	200131R1_4	100	1.05	NO	37.88	1.131	7.83e5	1.05e6	99.7	-0.3	0.745	bb
5	200131R1_5	100	1.05	NO	37.88	1.131	8.87e5	1.15e6	103	3.2	0.771	bb
6	200131R1_6	100	1.03	NO	37.88	1.131	1.10e6	1.32e6	112	11.6	0.834	bb

Compound name: 13C-OCDD

Response Factor: 0.706533

RRF SD: 0.0850665, Relative SD: 12.04

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	200131R1_1	200	0.89	NO	40.90	1.220	1.29e6	8.41e5	218	8.9	0.770	bb
2	200131R1_2	200	0.92	NO	40.88	1.221	1.46e6	1.13e6	183	-8.6	0.646	bd
3	200131R1_3	200	0.90	NO	40.89	1.221	1.41e6	1.23e6	163	-18.5	0.575	bb
4	200131R1_4	200	0.90	NO	40.90	1.221	1.48e6	1.05e6	199	-0.4	0.704	bb
5	200131R1_5	200	0.86	NO	40.89	1.221	1.69e6	1.15e6	208	4.0	0.735	bb
6	200131R1_6	200	0.84	NO	40.90	1.221	2.14e6	1.32e6	229	14.6	0.809	bb

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

Response Factor: 1.06529

RRF SD: 0.0915828, Relative SD: 8.59701

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	200131R1_1	100	0.77	NO	24.84	0.990	1.69e6	1.42e6	112	11.8	1.19	bb
2	200131R1_2	100	0.78	NO	24.79	0.990	1.87e6	1.95e6	89.9	-10.1	0.958	bb

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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	200131R1_3	100	0.76	NO	24.79	0.990	1.95e6	2.03e6	90.3	-9.7	0.962	bb
4	200131R1_4	100	0.77	NO	24.79	0.990	1.92e6	1.80e6	100	0.3	1.07	bb
5	200131R1_5	100	0.77	NO	24.78	0.990	1.96e6	1.80e6	103	2.6	1.09	bb
6	200131R1_6	100	0.77	NO	24.81	0.990	2.35e6	2.10e6	105	5.1	1.12	bb

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

Response Factor: 1.00172

RRF SD: 0.117905, Relative SD: 11.7703

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	200131R1_1	100	1.57	NO	29.37	1.171	1.46e6	1.42e6	103	3.0	1.03	bb
2	200131R1_2	100	1.56	NO	29.34	1.172	1.66e6	1.95e6	84.9	-15.1	0.851	bb
3	200131R1_3	100	1.61	NO	29.34	1.172	1.85e6	2.03e6	91.2	-8.8	0.914	bb
4	200131R1_4	100	1.59	NO	29.35	1.173	1.72e6	1.80e6	95.2	-4.8	0.953	bb
5	200131R1_5	100	1.60	NO	29.32	1.172	1.96e6	1.80e6	109	9.1	1.09	bb
6	200131R1_6	100	1.59	NO	29.35	1.172	2.45e6	2.10e6	117	16.5	1.17	bb

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

Response Factor: 0.961692

RRF SD: 0.117094, Relative SD: 12.1758

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	200131R1_1	100	1.59	NO	30.35	1.210	1.40e6	1.42e6	103	2.7	0.988	db
2	200131R1_2	100	1.59	NO	30.32	1.211	1.60e6	1.95e6	85.2	-14.8	0.820	db
3	200131R1_3	100	1.56	NO	30.32	1.211	1.77e6	2.03e6	90.8	-9.2	0.873	bb
4	200131R1_4	100	1.61	NO	30.32	1.211	1.63e6	1.80e6	93.8	-6.2	0.902	db
5	200131R1_5	100	1.59	NO	30.30	1.211	1.92e6	1.80e6	111	10.9	1.07	db
6	200131R1_6	100	1.62	NO	30.33	1.211	2.35e6	2.10e6	117	16.5	1.12	db

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

Response Factor: 1.0492

RRF SD: 0.111678, Relative SD: 10.6441

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	200131R1_1	100	0.51	NO	33.13	0.988	9.82e5	8.41e5	111	11.3	1.17	bd
2	200131R1_2	100	0.50	NO	33.09	0.988	1.03e6	1.13e6	87.3	-12.7	0.915	bd
3	200131R1_3	100	0.51	NO	33.10	0.988	1.14e6	1.23e6	88.8	-11.2	0.932	bd
4	200131R1_4	100	0.50	NO	33.11	0.988	1.09e6	1.05e6	98.5	-1.5	1.03	bd
5	200131R1_5	100	0.51	NO	33.08	0.988	1.23e6	1.15e6	102	2.0	1.07	bd
6	200131R1_6	100	0.50	NO	33.11	0.989	1.55e6	1.32e6	112	12.1	1.18	bd

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

Response Factor: 1.18988

RRF SD: 0.120357, Relative SD: 10.1151

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	200131R1_1	100	0.51	NO	33.24	0.992	1.07e6	8.41e5	107	7.4	1.28	db
2	200131R1_2	100	0.50	NO	33.21	0.992	1.18e6	1.13e6	88.0	-12.0	1.05	db
3	200131R1_3	100	0.51	NO	33.22	0.992	1.29e6	1.23e6	88.2	-11.8	1.05	db
4	200131R1_4	100	0.51	NO	33.23	0.992	1.23e6	1.05e6	98.5	-1.5	1.17	db
5	200131R1_5	100	0.51	NO	33.21	0.992	1.46e6	1.15e6	107	6.7	1.27	db
6	200131R1_6	100	0.51	NO	33.23	0.992	1.75e6	1.32e6	111	11.2	1.32	db

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

Response Factor: 1.06623

RRF SD: 0.103589, Relative SD: 9.71549

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	200131R1_1	100	0.51	NO	33.83	1.009	9.62e5	8.41e5	107	7.2	1.14	bb
2	200131R1_2	100	0.50	NO	33.80	1.009	1.06e6	1.13e6	88.4	-11.6	0.943	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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	200131R1_3	100	0.51	NO	33.79	1.009	1.17e6	1.23e6	89.3	-10.7	0.953	bb
4	200131R1_4	100	0.51	NO	33.81	1.009	1.11e6	1.05e6	99.0	-1.0	1.06	bb
5	200131R1_5	100	0.51	NO	33.78	1.009	1.27e6	1.15e6	103	3.4	1.10	bb
6	200131R1_6	100	0.50	NO	33.81	1.009	1.59e6	1.32e6	113	12.6	1.20	bb

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

Response Factor: 0.922357

RRF SD: 0.112781, Relative SD: 12.2275

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	200131R1_1	100	0.52	NO	34.73	1.036	8.96e5	8.41e5	115	15.5	1.07	bd
2	200131R1_2	100	0.50	NO	34.70	1.036	9.11e5	1.13e6	87.5	-12.5	0.807	bb
3	200131R1_3	100	0.50	NO	34.70	1.036	9.71e5	1.23e6	85.9	-14.1	0.793	bb
4	200131R1_4	100	0.51	NO	34.71	1.036	9.57e5	1.05e6	98.7	-1.3	0.910	bb
5	200131R1_5	100	0.50	NO	34.69	1.036	1.06e6	1.15e6	100	0.1	0.923	bb
6	200131R1_6	100	0.52	NO	34.71	1.036	1.37e6	1.32e6	112	12.3	1.04	bb

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

Response Factor: 0.767165

RRF SD: 0.0861255, Relative SD: 11.2265

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	200131R1_1	100	0.44	NO	36.47	1.088	7.37e5	8.41e5	114	14.2	0.876	bb
2	200131R1_2	100	0.43	NO	36.44	1.088	7.82e5	1.13e6	90.2	-9.8	0.692	bb
3	200131R1_3	100	0.42	NO	36.45	1.088	8.00e5	1.23e6	85.1	-14.9	0.653	bb
4	200131R1_4	100	0.43	NO	36.45	1.088	8.01e5	1.05e6	99.3	-0.7	0.762	bb
5	200131R1_5	100	0.44	NO	36.44	1.088	8.88e5	1.15e6	101	0.6	0.772	bb
6	200131R1_6	100	0.44	NO	36.46	1.088	1.12e6	1.32e6	111	10.6	0.848	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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

Response Factor: 0.552323

RRF SD: 0.0621028, Relative SD: 11.2439

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	200131R1_1	100	0.44	NO	38.50	1.149	5.04e5	8.41e5	109	8.5	0.600	MM
2	200131R1_2	100	0.43	NO	38.47	1.149	5.63e5	1.13e6	90.3	-9.7	0.499	bb
3	200131R1_3	100	0.44	NO	38.48	1.149	5.68e5	1.23e6	83.9	-16.1	0.464	bb
4	200131R1_4	100	0.43	NO	38.48	1.148	5.80e5	1.05e6	99.8	-0.2	0.551	bb
5	200131R1_5	100	0.43	NO	38.47	1.149	6.58e5	1.15e6	104	3.6	0.572	bb
6	200131R1_6	100	0.43	NO	38.49	1.149	8.31e5	1.32e6	114	13.9	0.629	bb

Compound name: 13C-OCDF

Response Factor: 0.78941

RRF SD: 0.0937006, Relative SD: 11.8697

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	200131R1_1	200	0.88	NO	41.10	1.226	1.44e6	8.41e5	217	8.5	0.856	bb
2	200131R1_2	200	0.86	NO	41.07	1.226	1.59e6	1.13e6	178	-10.8	0.704	bb
3	200131R1_3	200	0.84	NO	41.08	1.226	1.61e6	1.23e6	167	-16.6	0.658	bb
4	200131R1_4	200	0.87	NO	41.08	1.226	1.67e6	1.05e6	202	0.8	0.796	bb
5	200131R1_5	200	0.86	NO	41.07	1.227	1.87e6	1.15e6	206	2.8	0.812	bb
6	200131R1_6	200	0.87	NO	41.09	1.227	2.40e6	1.32e6	230	15.2	0.910	bb

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

Response Factor: 1.17626

RRF SD: 0.0677436, Relative SD: 5.75926

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	200131R1_1	0.250			25.74	1.026	2.61e3	9.30e5	0.239	-4.6	1.12	bb
2	200131R1_2	0.500			25.70	1.027	7.49e3	1.27e6	0.502	0.3	1.18	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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	200131R1_3	2.00			25.70	1.027	2.85e4	1.31e6	1.85	-7.7	1.09	bb
4	200131R1_4	10.0			25.70	1.027	1.40e5	1.19e6	10.0	0.4	1.18	bb
5	200131R1_5	40.0			25.69	1.027	5.71e5	1.18e6	41.0	2.6	1.21	bb
6	200131R1_6	200			25.70	1.026	3.51e6	1.37e6	218	8.9	1.28	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	200131R1_1	100	0.78	NO	25.08	1.000	9.30e5	9.30e5	100	0.0	1.00	bb
2	200131R1_2	100	0.80	NO	25.03	1.000	1.27e6	1.27e6	100	0.0	1.00	bb
3	200131R1_3	100	0.80	NO	25.03	1.000	1.31e6	1.31e6	100	0.0	1.00	bb
4	200131R1_4	100	0.80	NO	25.03	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
5	200131R1_5	100	0.80	NO	25.02	1.000	1.18e6	1.18e6	100	0.0	1.00	bb
6	200131R1_6	100	0.80	NO	25.05	1.000	1.37e6	1.37e6	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	200131R1_1	100	0.79	NO	23.42	1.000	1.42e6	1.42e6	100	0.0	1.00	bd
2	200131R1_2	100	0.79	NO	23.35	1.000	1.95e6	1.95e6	100	0.0	1.00	bb
3	200131R1_3	100	0.79	NO	23.37	1.000	2.03e6	2.03e6	100	0.0	1.00	bb
4	200131R1_4	100	0.79	NO	23.37	1.000	1.80e6	1.80e6	100	0.0	1.00	bb
5	200131R1_5	100	0.80	NO	23.35	1.000	1.80e6	1.80e6	100	0.0	1.00	bb
6	200131R1_6	100	0.79	NO	23.39	1.000	2.10e6	2.10e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

Compound name: 13C-1,2,3,4,6,9-HxCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.51	NO	33.52	1.000	8.41e5	8.41e5	100	0.0	1.00	bb
2	200131R1_2	100	0.51	NO	33.49	1.000	1.13e6	1.13e6	100	0.0	1.00	bb
3	200131R1_3	100	0.51	NO	33.50	1.000	1.23e6	1.23e6	100	0.0	1.00	bb
4	200131R1_4	100	0.51	NO	33.51	1.000	1.05e6	1.05e6	100	0.0	1.00	bb
5	200131R1_5	100	0.51	NO	33.49	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
6	200131R1_6	100	0.51	NO	33.50	1.000	1.32e6	1.32e6	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:18:48 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:18:51 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

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

	Name	ID	Acq.Date	Acq.Time
1	200131R1_1	ST200131R1_1 1613 CS0 19L2302	31-Jan-20	16:48:41
2	200131R1_2	ST200131R1_2 1613 CS1 19L2303	31-Jan-20	17:37:04
3	200131R1_3	ST200131R1_3 1613 CS2 19L2304	31-Jan-20	18:23:19
4	200131R1_4	ST200131R1_4 1613 CS3 19L2305	31-Jan-20	19:10:18
5	200131R1_5	ST200131R1_5 1613 CS4 19L2306	31-Jan-20	19:57:17
6	200131R1_6	ST200131R1_6 1613 CS5 19L2307	31-Jan-20	20:44:23
7	200131R1_7	SOLVENT BLANK	31-Jan-20	21:31:31
8	200131R1_8	SS200131R1_1 1613 SSS 19L2308	31-Jan-20	22:18:30
9	200131R1_9	ST200131R1_7 1613 CS3 19I1604	31-Jan-20	23:05:36
10	200131R1_10	B0A0133-BS1 OPR 1	31-Jan-20	23:52:35
11	200131R1_11	B0A0226-BS1 OPR 10	01-Feb-20	00:39:35
12	200131R1_12	SOLVENT BLANK	01-Feb-20	01:26:32
13	200131R1_13	B0A0133-BLK1 Method Blank 1	01-Feb-20	02:13:32
14	200131R1_14	B0A0226-BLK1 Method Blank 10	01-Feb-20	03:00:32
15	200131R1_15	1904161-10RE1 PDI-046SC-A-02-03-191001 ...	01-Feb-20	03:47:38
16	200131R1_16	1904161-16RE1 PDI-066SC-A-06-07-191011 ...	01-Feb-20	04:34:37
17	200131R1_17	1904207-04RE1 PDI-076SC-A-05-06-191013 ...	01-Feb-20	05:21:38
18	200131R1_18	1903647-05@2X PDI-067SC-B-06-08-191010 ...	01-Feb-20	06:08:35
19	200131R1_19	1903647-02@10X PDI-067SC-B-00-02-19101...	01-Feb-20	06:55:34

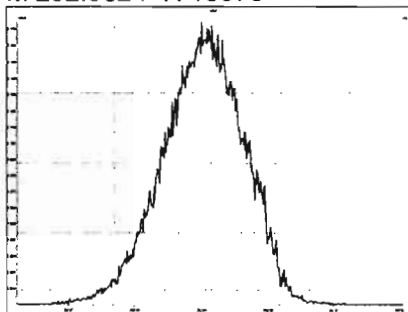
Experiment Calibration Report

MassLynx 4.1 SCN815

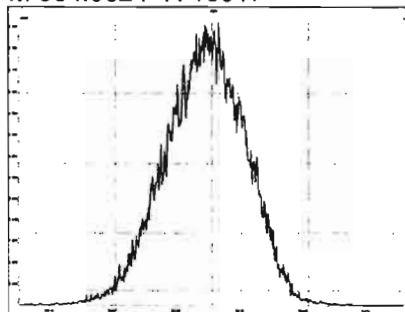
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Printed: Friday, January 31, 2020 16:41:39 Pacific Standard Time

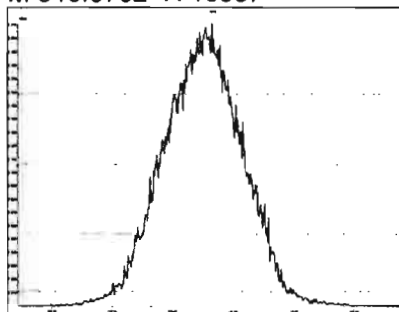
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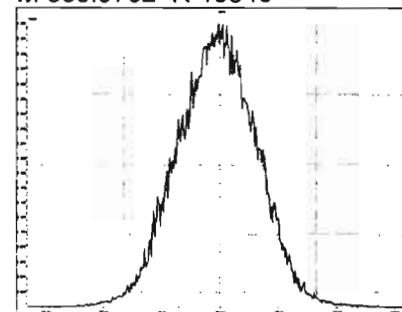
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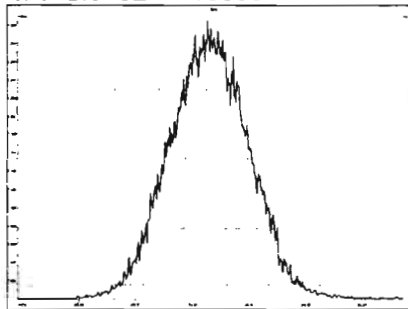
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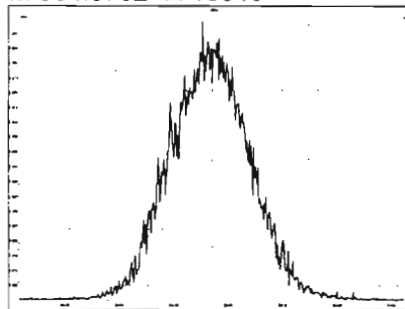
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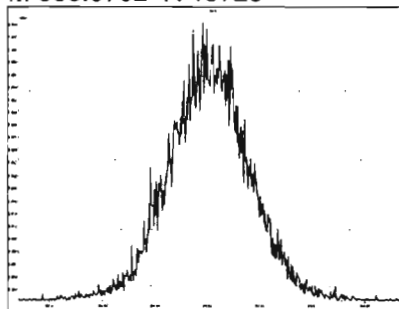
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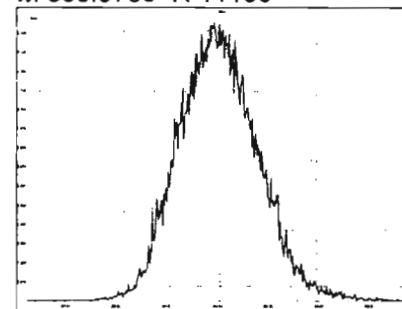
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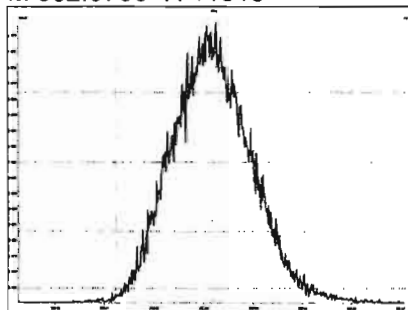
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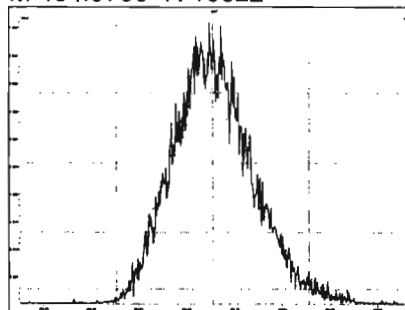
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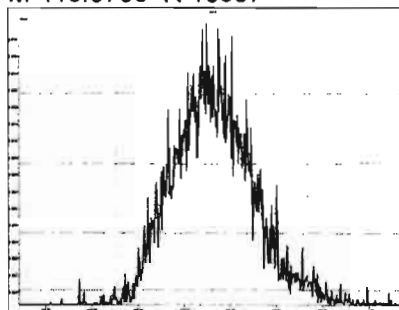
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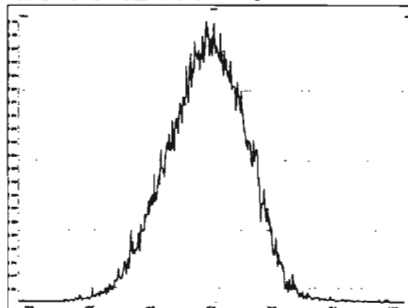
Experiment Calibration Report

MassLynx 4.1 SCN815

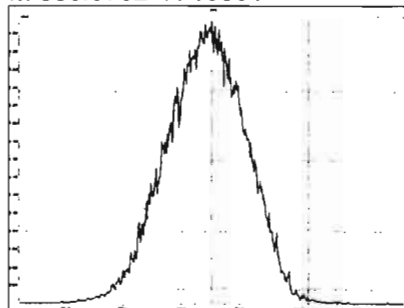
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Printed: Friday, January 31, 2020 16:42:23 Pacific Standard Time

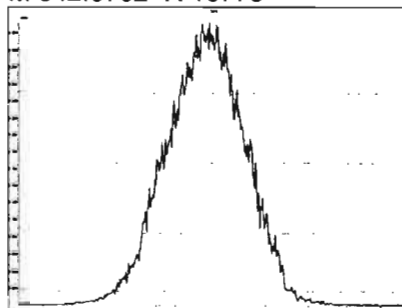
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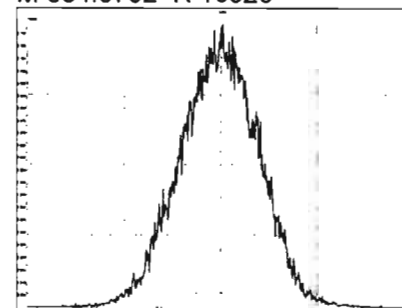
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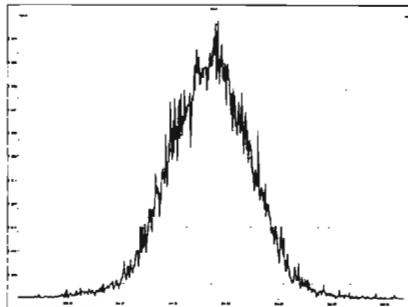
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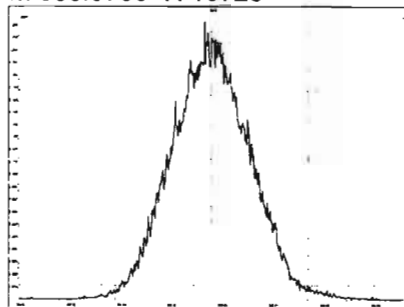
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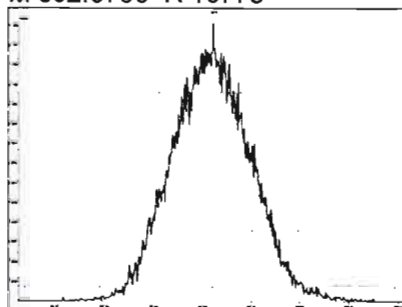
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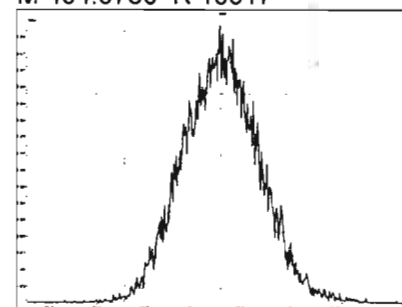
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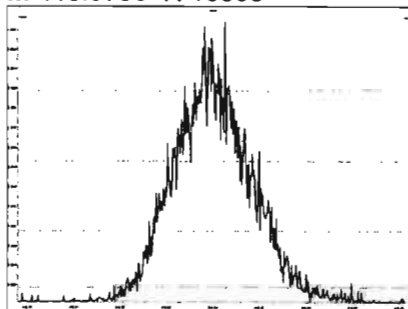
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M 404.9760 R 10917



M 416.9760 R 10503



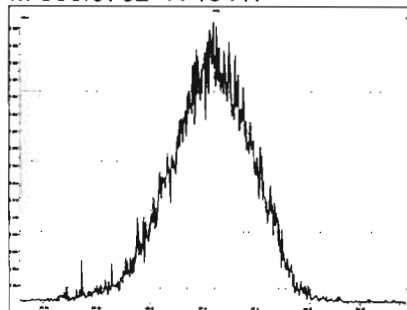
Experiment Calibration Report

MassLynx 4.1 SCN815

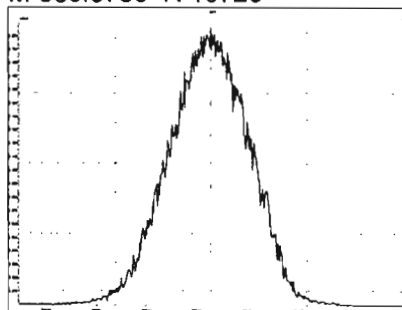
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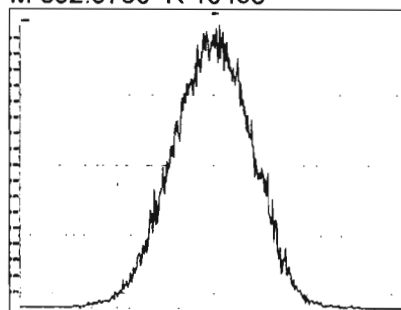
M 366.9792 R 10417



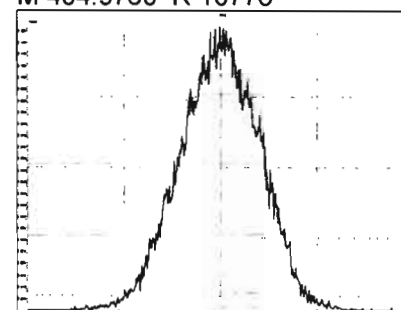
M 380.9760 R 10729



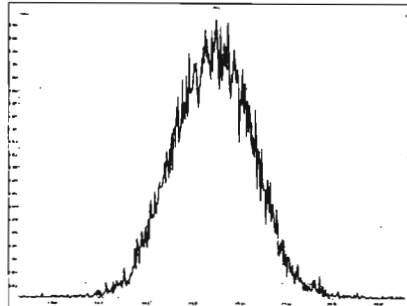
M 392.9760 R 10458



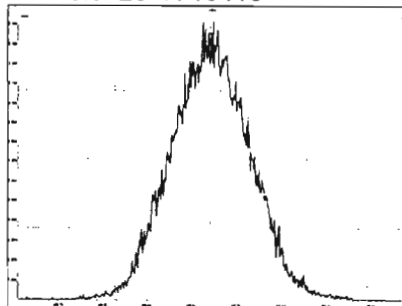
M 404.9760 R 10776



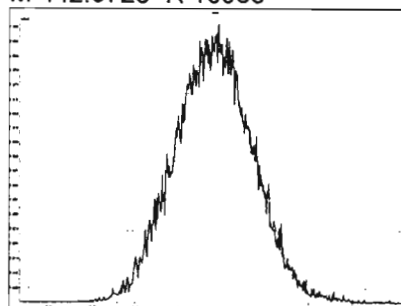
M 416.9760 R 10728



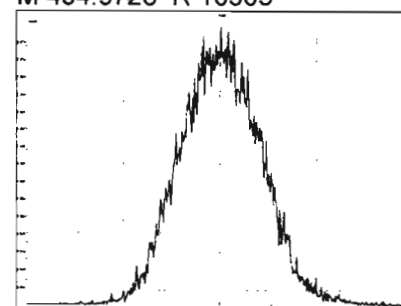
M 430.9728 R 10418



M 442.9728 R 10965



M 454.9728 R 10503



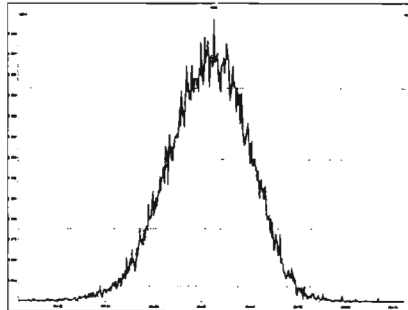
Experiment Calibration Report

MassLynx 4.1 SCN815

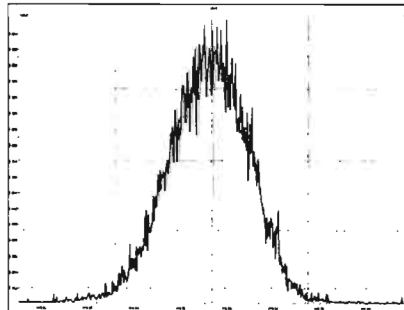
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, January 31, 2020 16:44:27 Pacific Standard Time

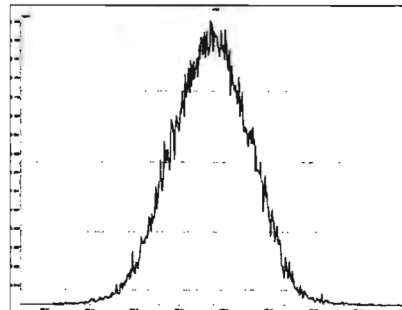
M 404.9760 R 10461



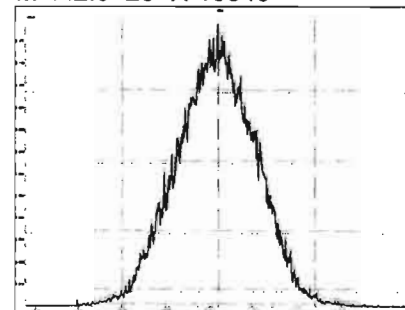
M 416.9760 R 10503



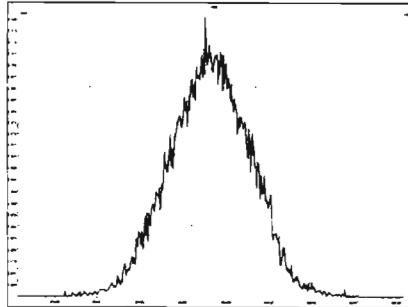
M 430.9728 R 10820



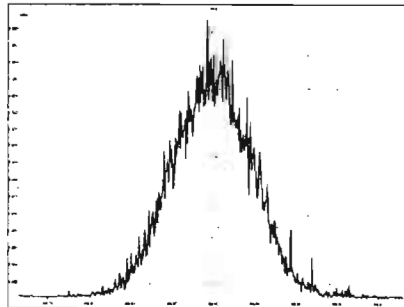
M 442.9728 R 10545



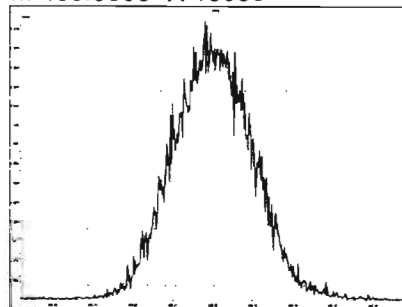
M 454.9728 R 10637



M 466.9728 R 11014



M 480.9696 R 10965



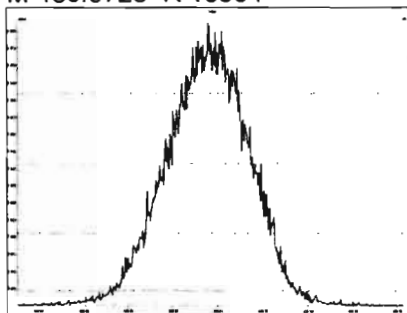
Experiment Calibration Report

MassLynx 4.1 SCN815

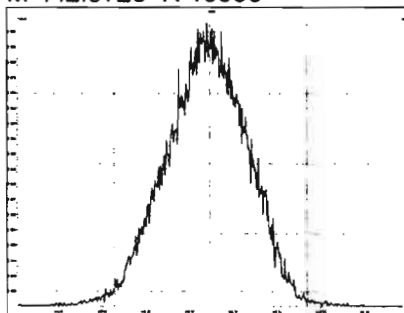
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Printed: Friday, January 31, 2020 16:45:52 Pacific Standard Time

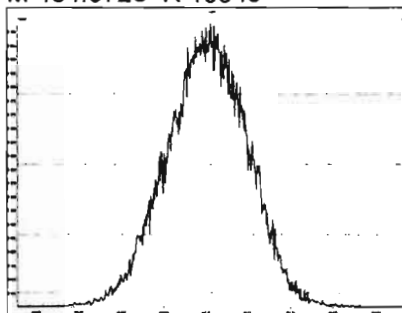
M 430.9728 R 10504



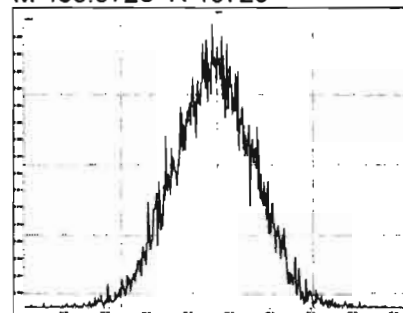
M 442.9728 R 10550



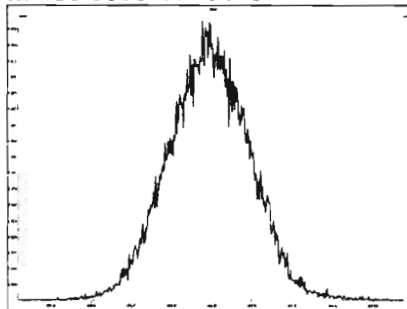
M 454.9728 R 10549



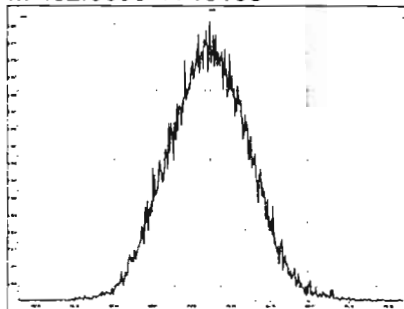
M 466.9728 R 10729



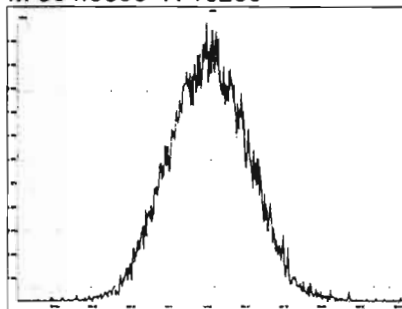
M 480.9696 R 10415



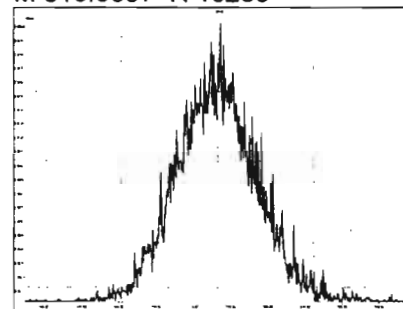
M 492.9696 R 10163



M 504.9696 R 10290



M 516.9697 R 10286



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:18:10 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:18:19 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.72
2	2 1,2,8,9-TCDD (Last)	26.66
3	3 1,2,4,7,9-PeCDD (First)	28.44
4	4 1,2,3,8,9-PeCDD (Last)	31.02
5	5 1,2,4,6,7,9-HxCDD (First)	32.51
6	6 1,2,3,7,8,9-HxCDD (Last)	34.37
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.85
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.90
9	9 1,3,6,8-TCDF (First)	19.63
10	10 1,2,8,9-TCDF (Last)	26.81
11	11 1,3,4,6,8-PeCDF (First)	26.77
12	12 1,2,3,8,9-PeCDF (Last)	31.26
13	13 1,2,3,4,6,8-HxCDF (First)	31.95
14	14 1,2,3,7,8,9-HxCDF (Last)	34.72
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.47
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.50

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:18:10 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:18:19 AM Pacific Standard Time

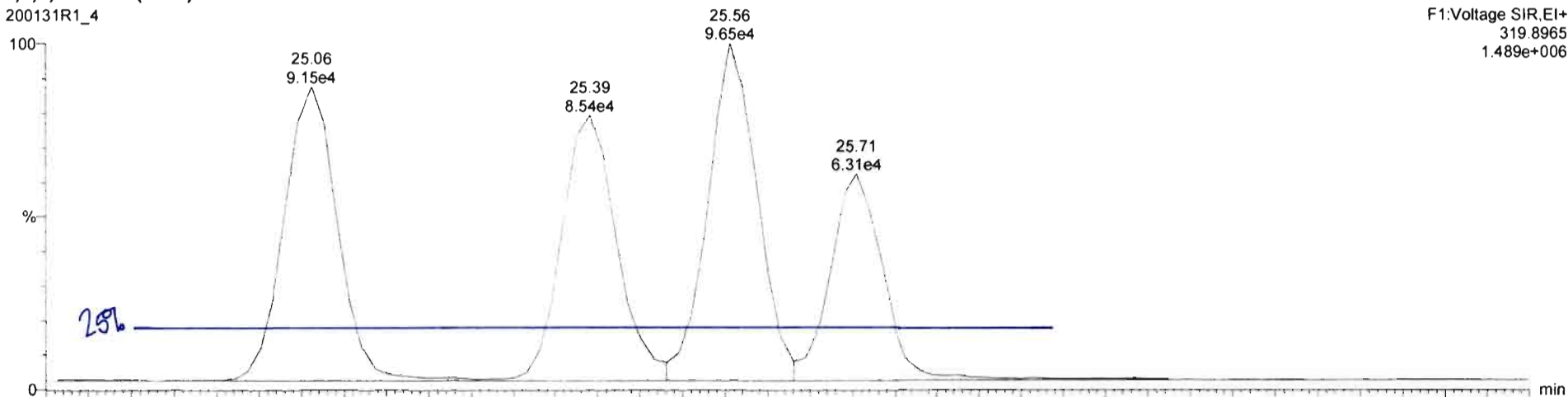
Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

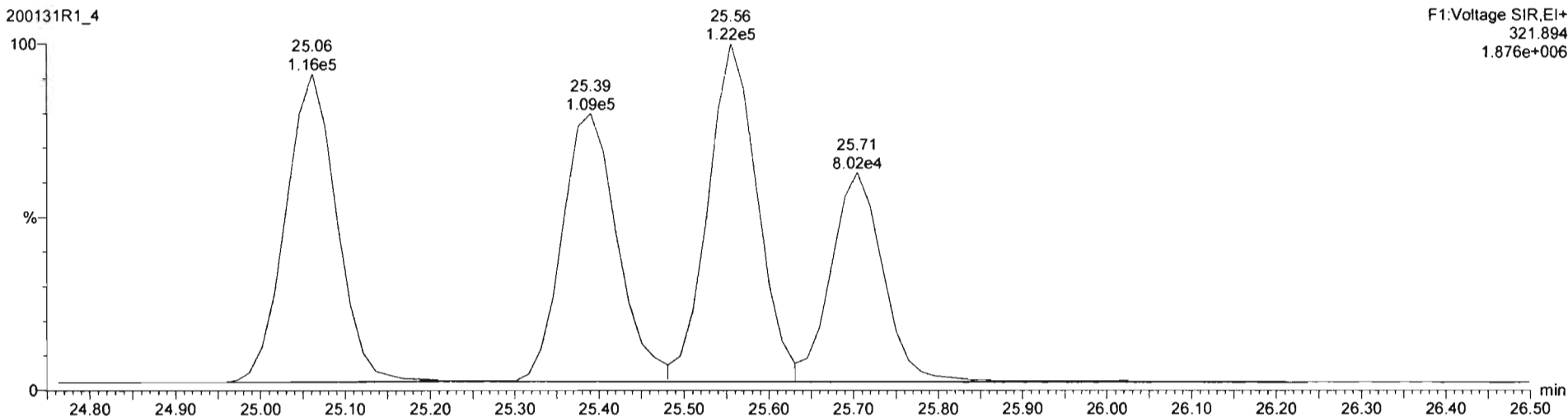
200131R1_4

F1:Voltage SIR,EI+
319.8965
1.489e+006



200131R1_4

F1:Voltage SIR,EI+
321.894
1.876e+006



Dataset: Untitled

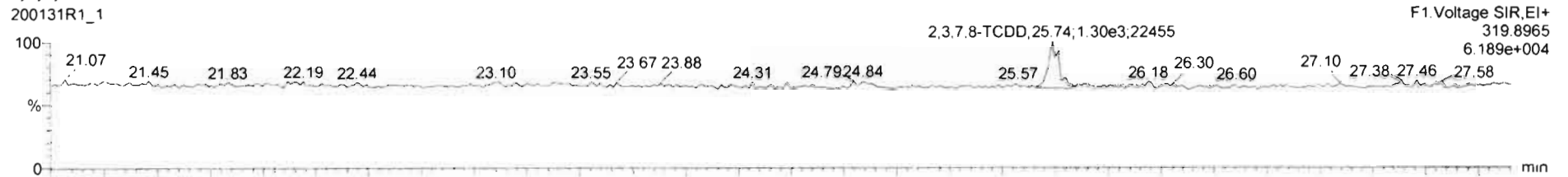
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: 02 Feb 2020 11:06:20

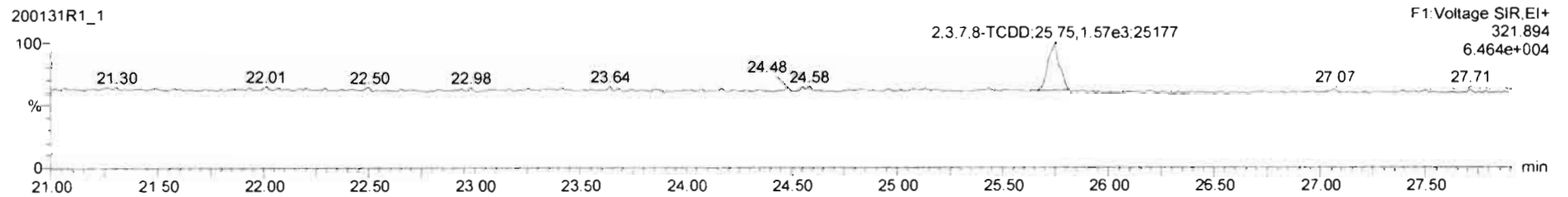
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200131R1_1

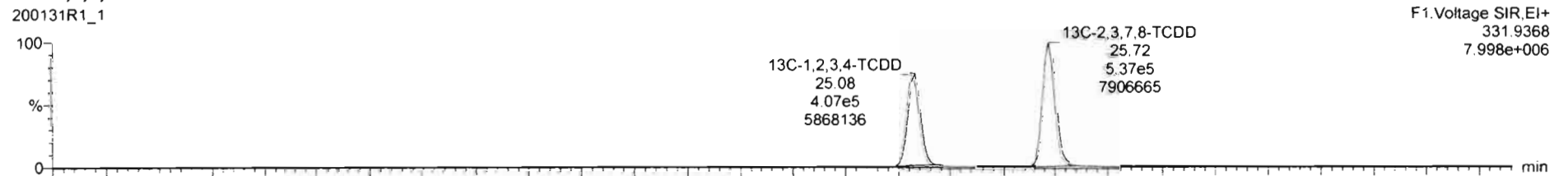


200131R1_1

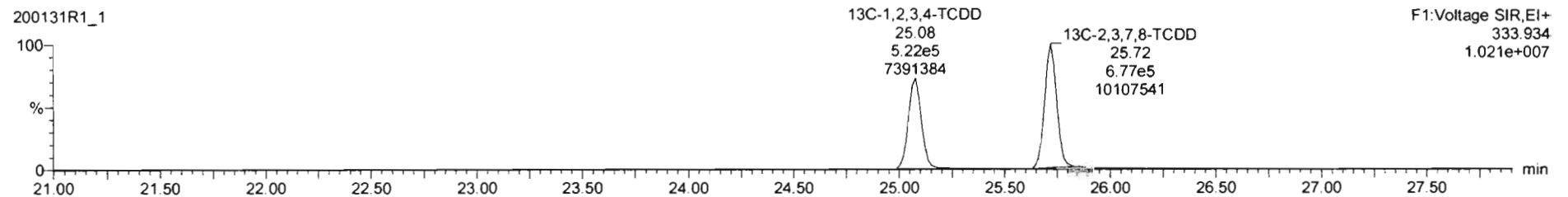


13C-2,3,7,8-TCDD

200131R1_1



200131R1_1



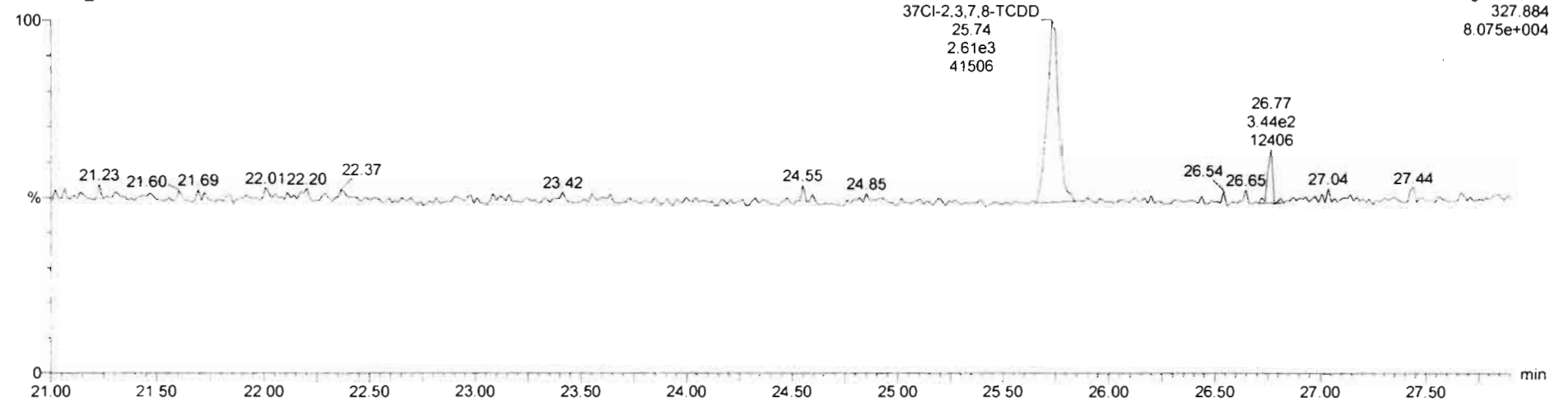
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

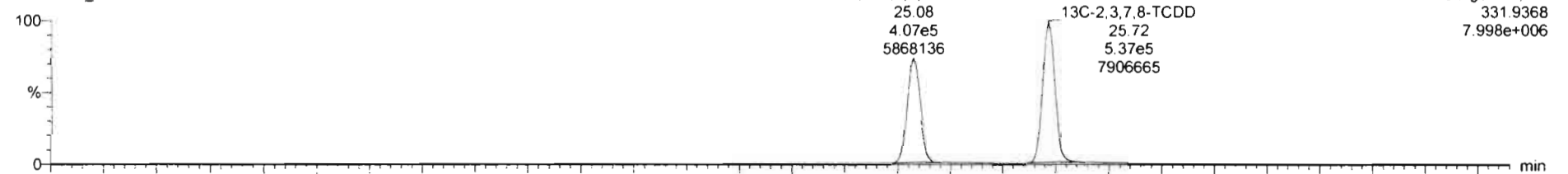
37Cl-2,3,7,8-TCDD

200131R1_1

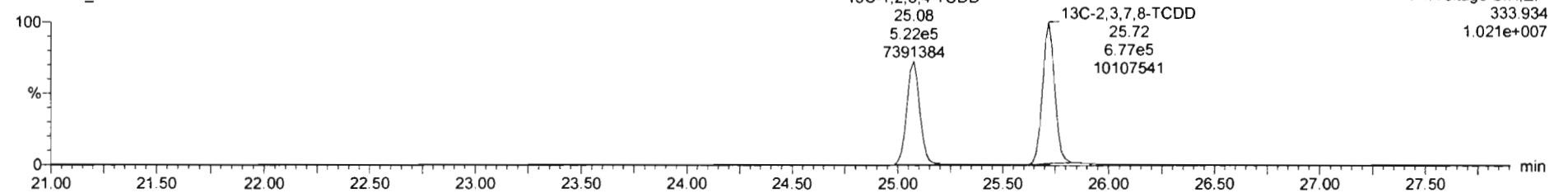


13C-1,2,3,4-TCDD

200131R1_1



200131R1_1



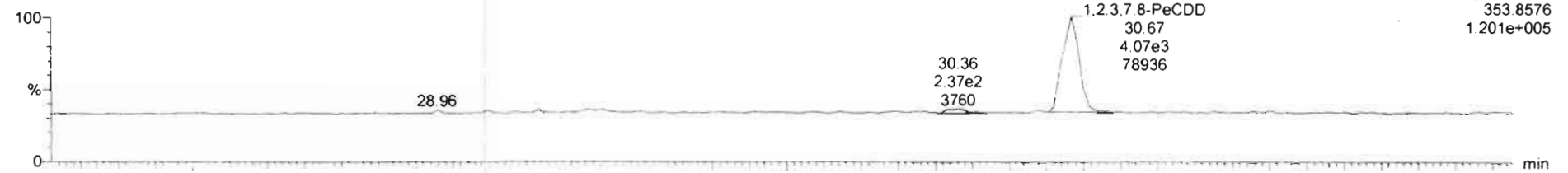
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

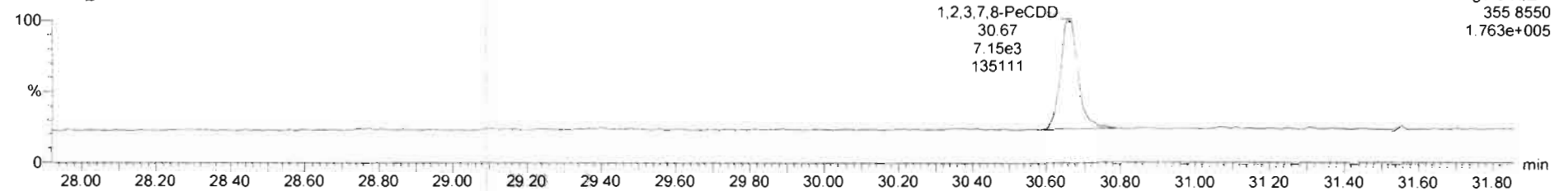
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1,2,3,7,8-PeCDD

200131R1_1

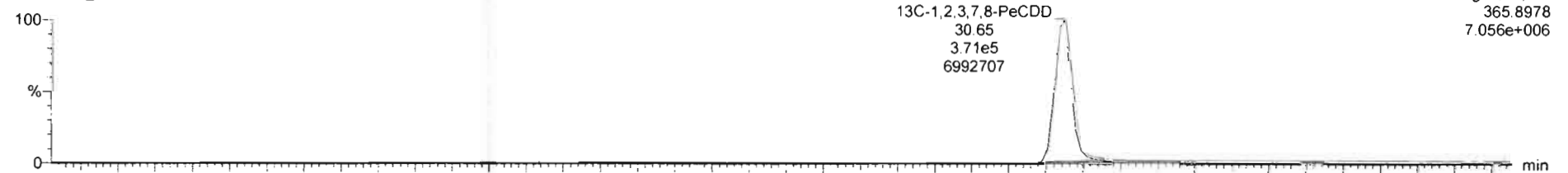


200131R1_1

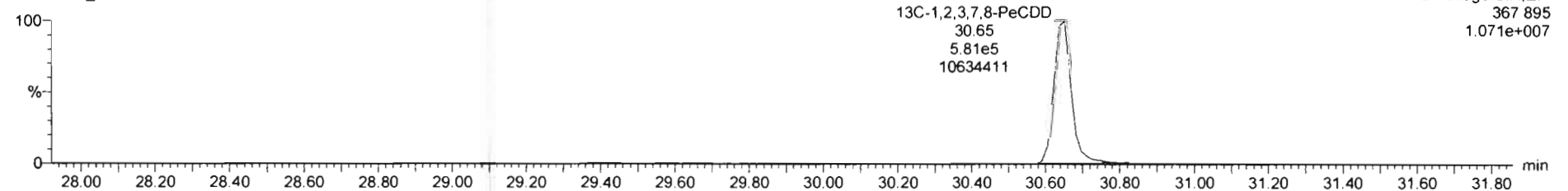


13C-1,2,3,7,8-PeCDD

200131R1_1



200131R1_1



Dataset: Untitled

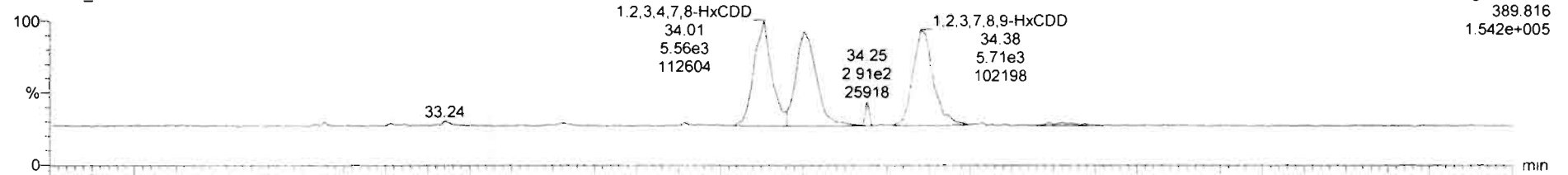
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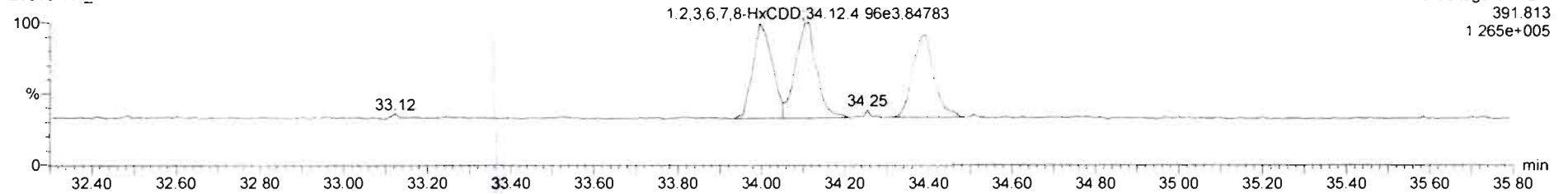
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1,2,3,4,7,8-HxCDD

200131R1_1

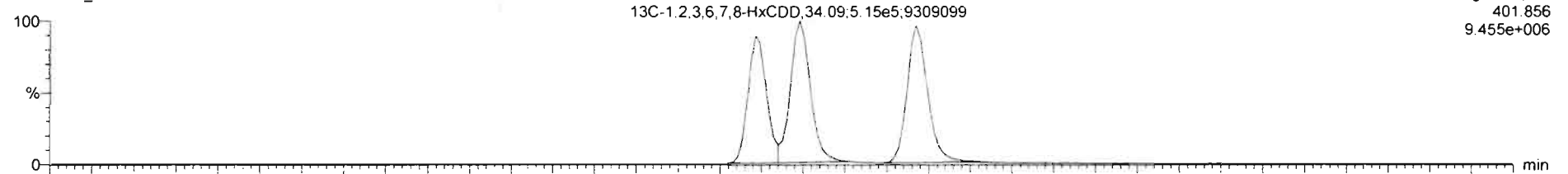


200131R1_1

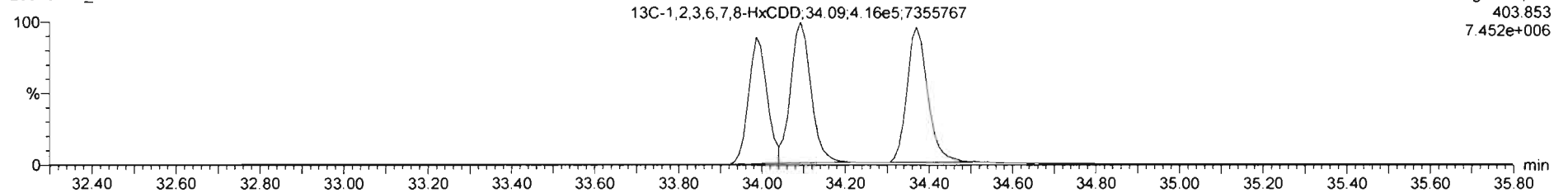


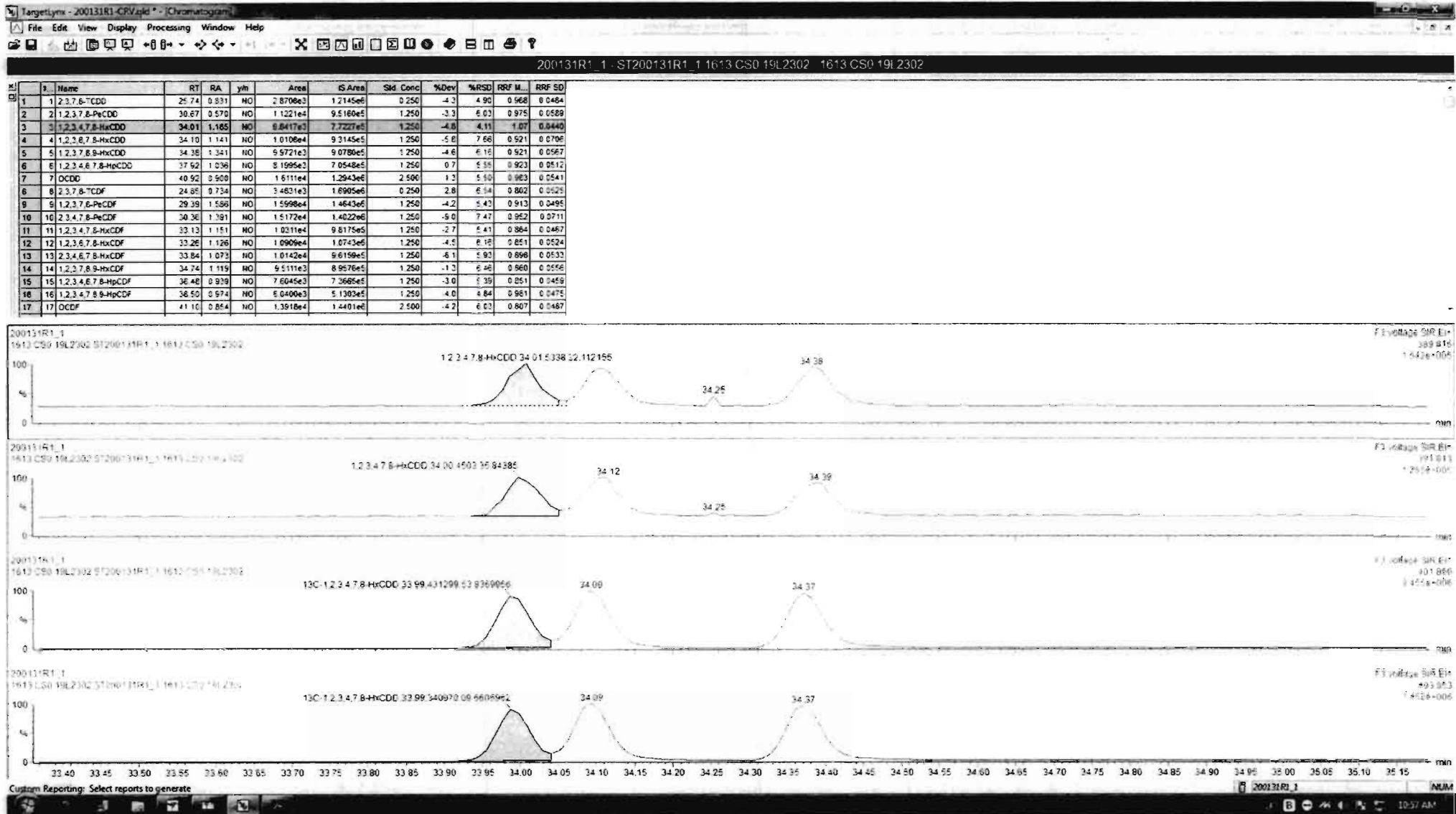
13C-1,2,3,4,7,8-HxCDD

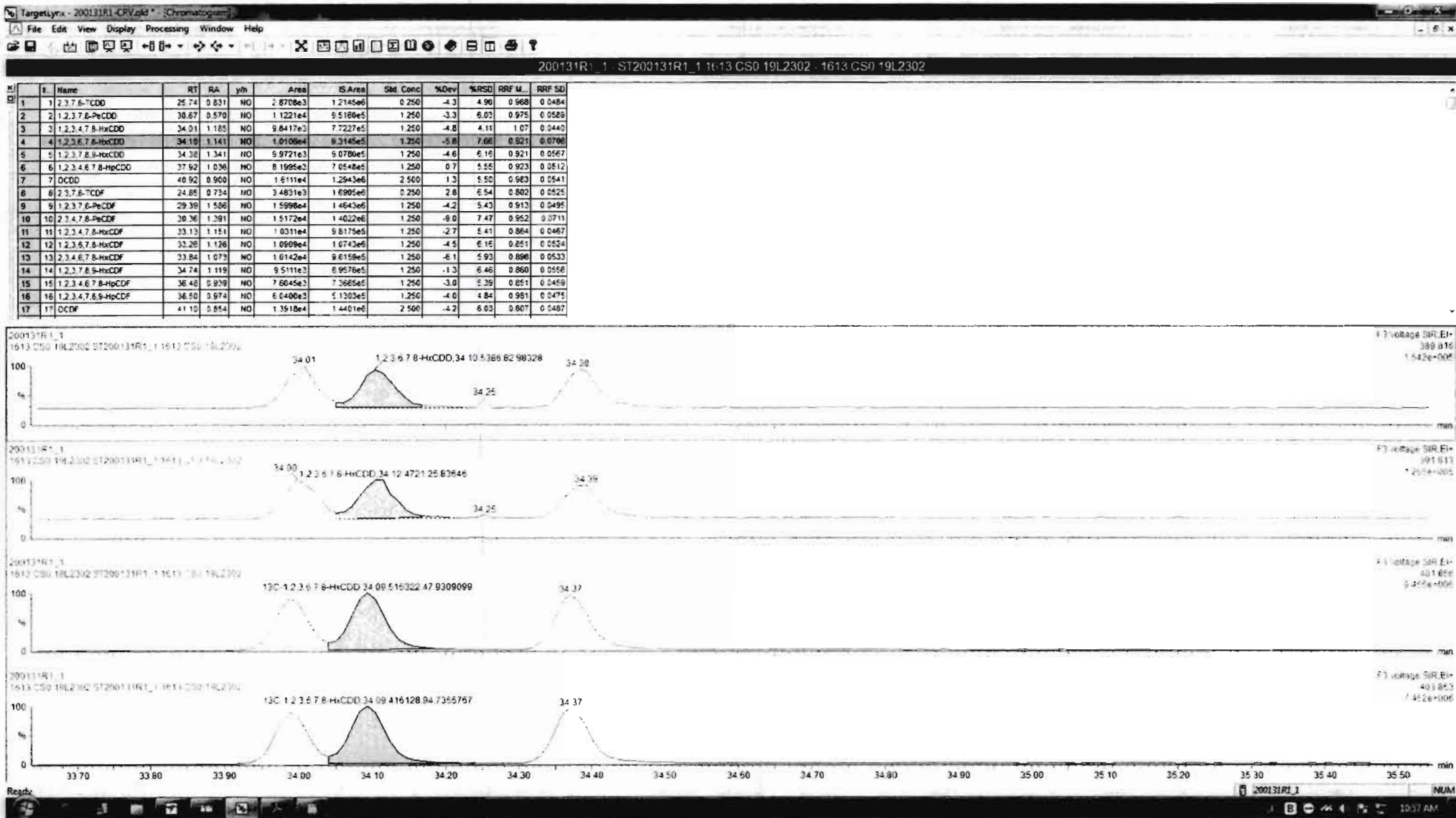
200131R1_1

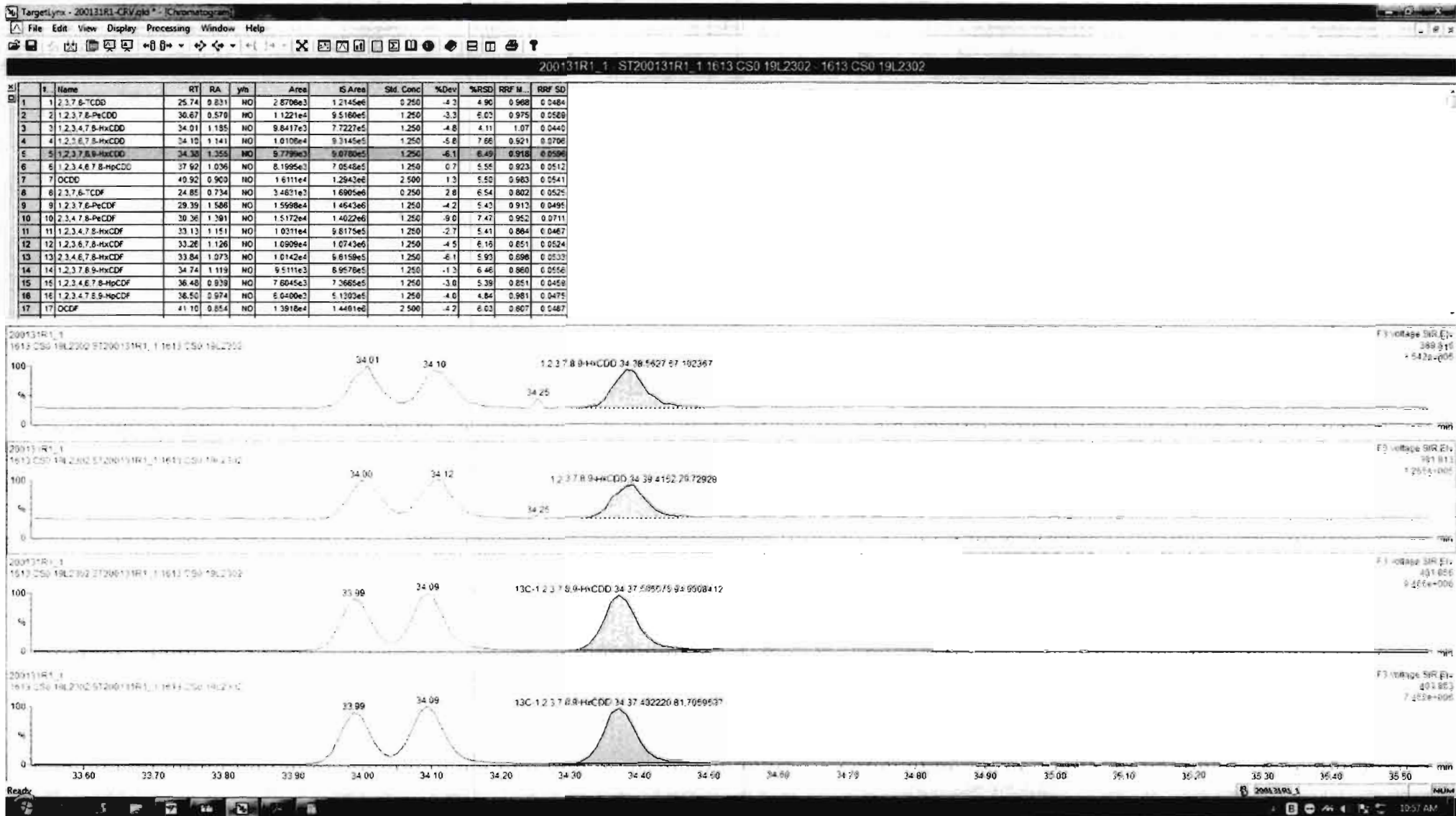


200131R1_1









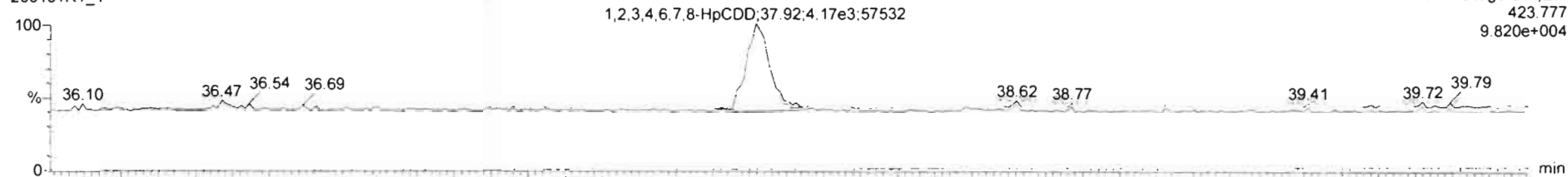
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Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

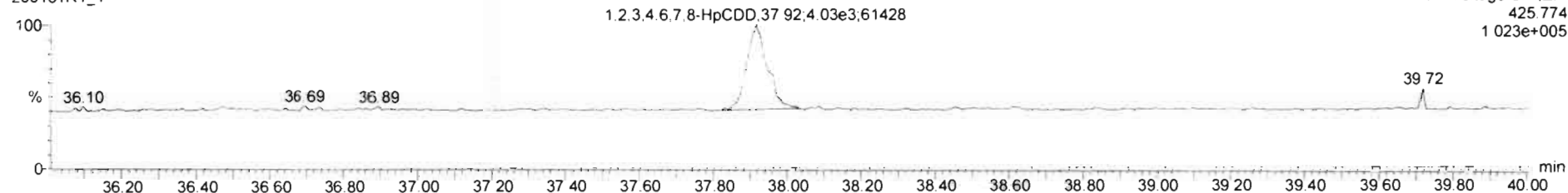
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200131R1_1

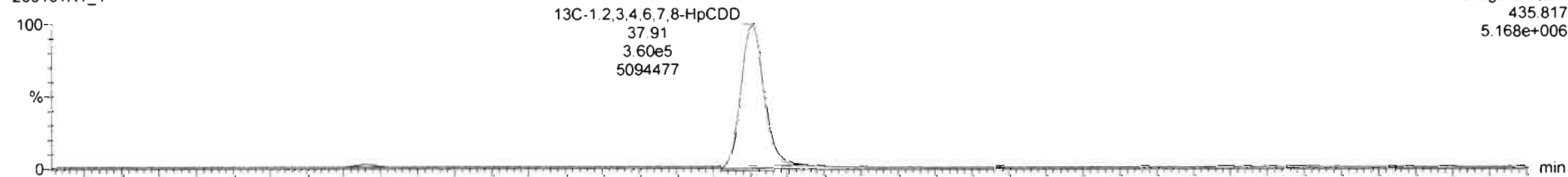


200131R1_1

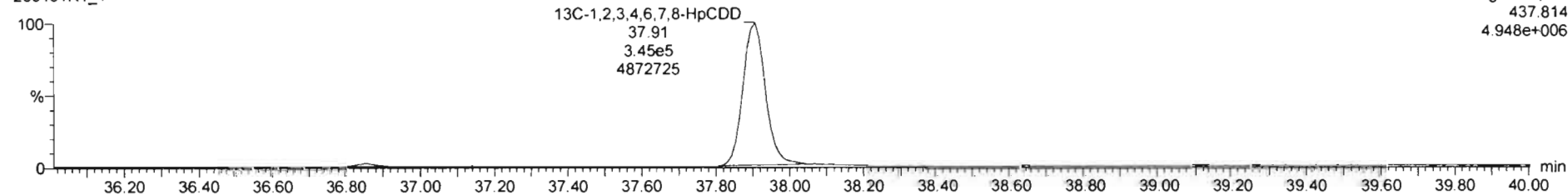


13C-1,2,3,4,6,7,8-HpCDD

200131R1_1



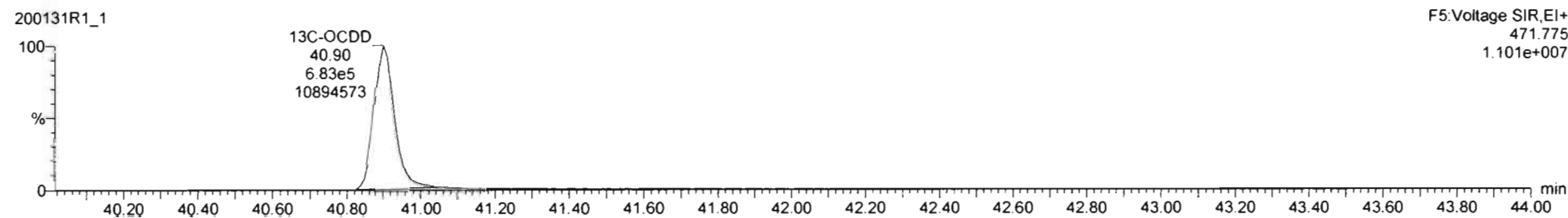
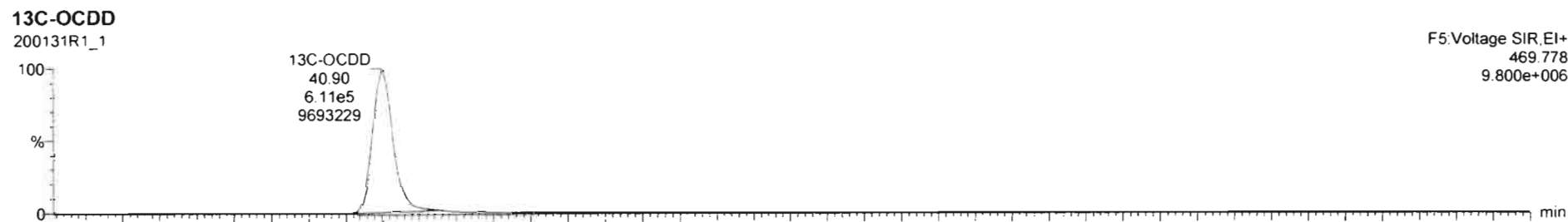
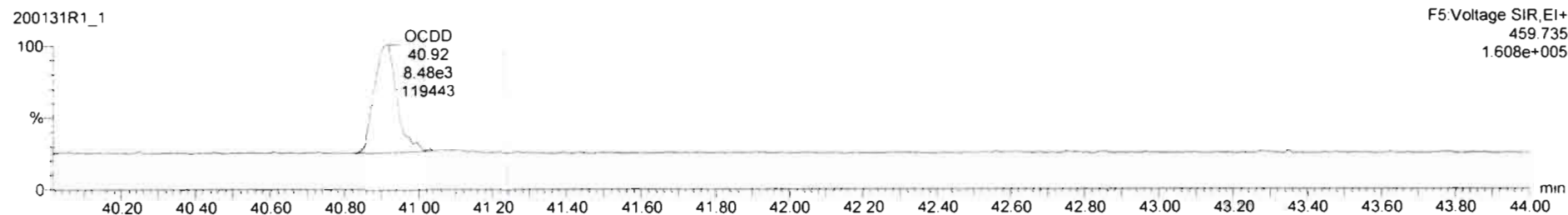
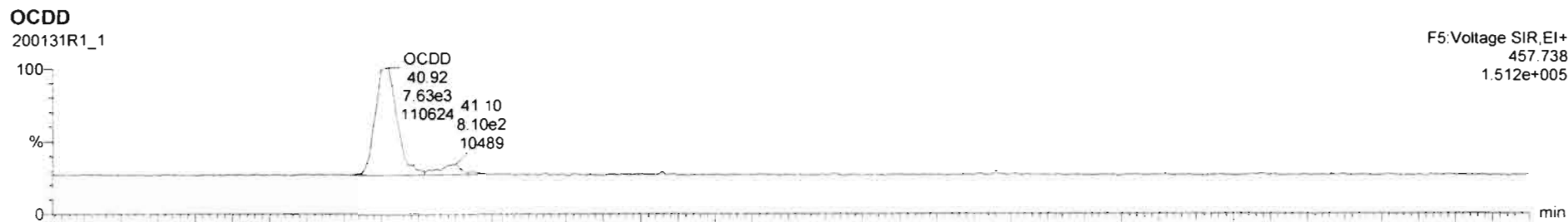
200131R1_1



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

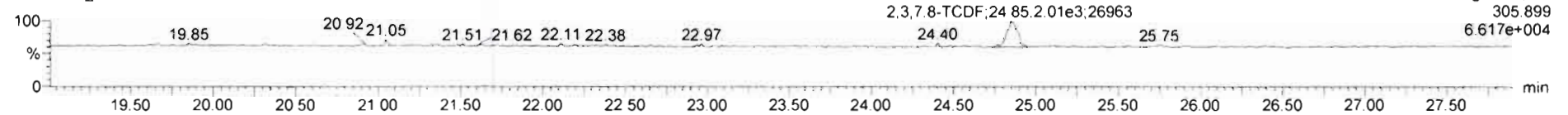
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDF

200131R1_1

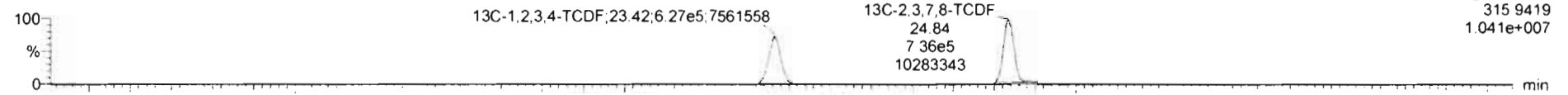


200131R1_1

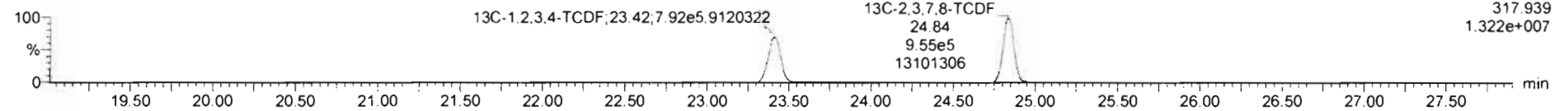


13C-2,3,7,8-TCDF

200131R1_1

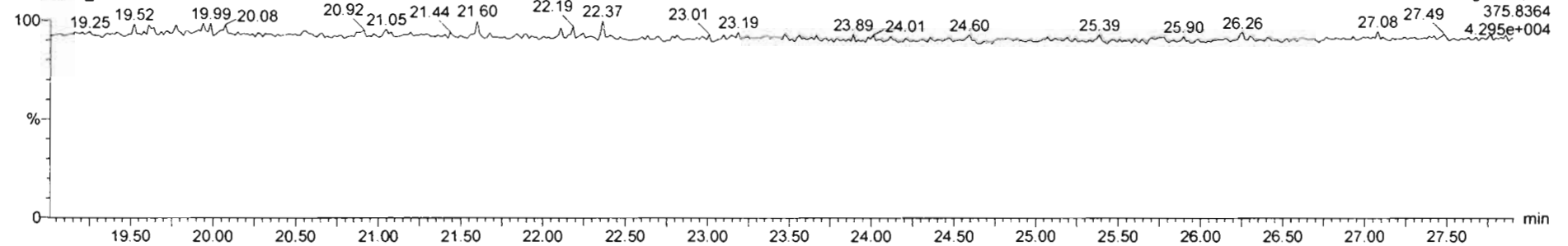


200131R1_1



DPE1

200131R1_1



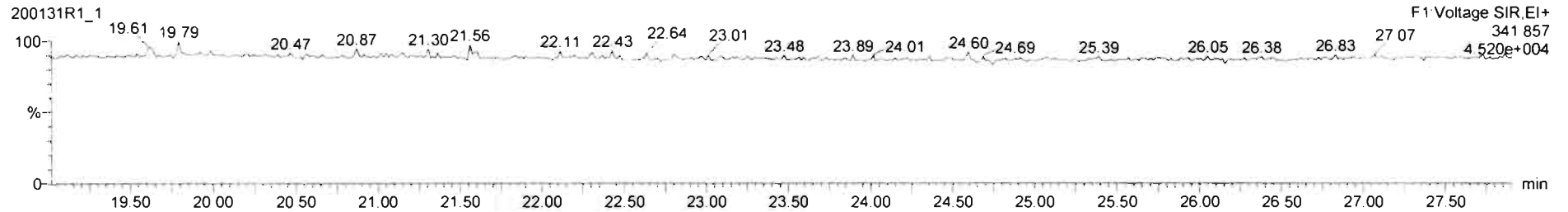
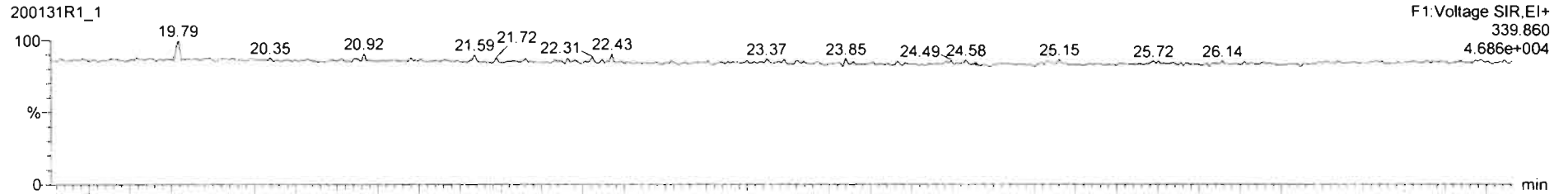
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

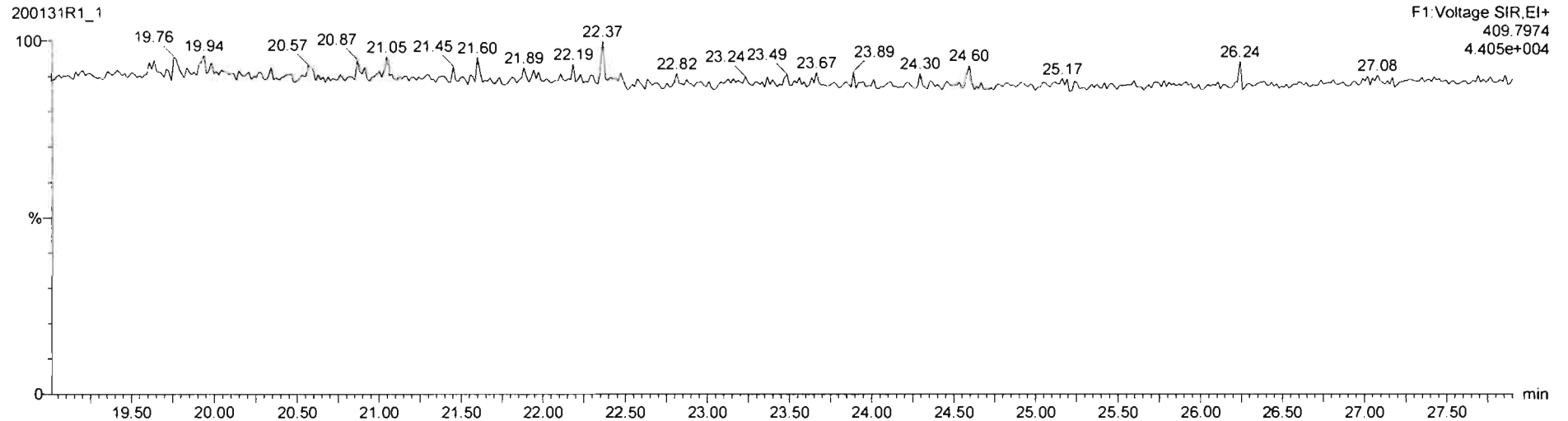
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1st Func. Penta-Furans



DPE6



Dataset: Untitled

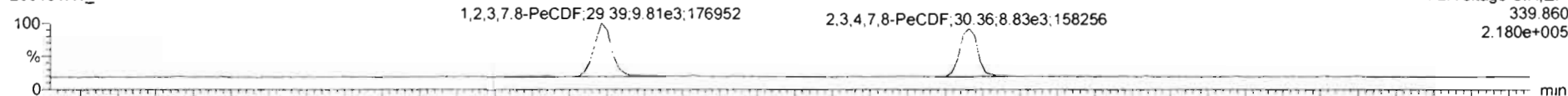
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

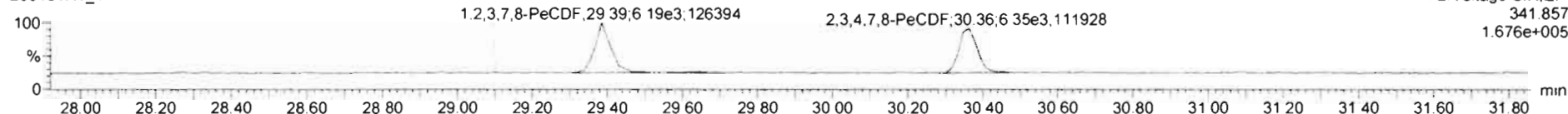
1,2,3,7,8-PeCDF

200131R1_1



F2:Voltage SIR,EI+
339.860
2.180e+005

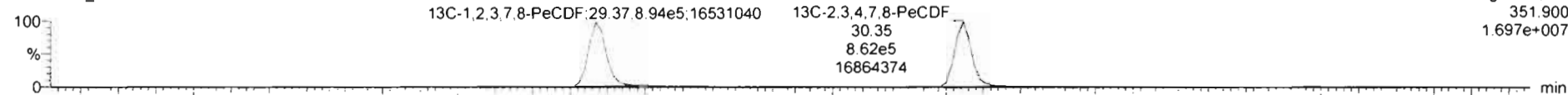
200131R1_1



F2:Voltage SIR,EI+
341.857
1.676e+005

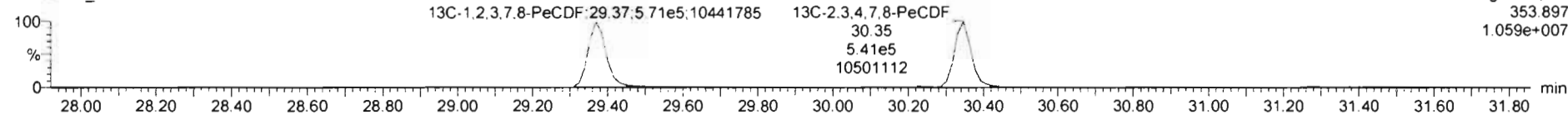
13C-1,2,3,7,8-PeCDF

200131R1_1



F2:Voltage SIR,EI+
351.900
1.697e+007

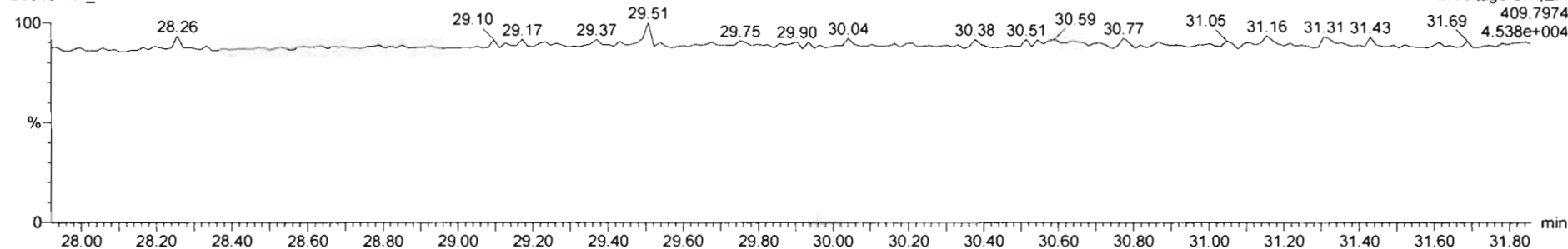
200131R1_1



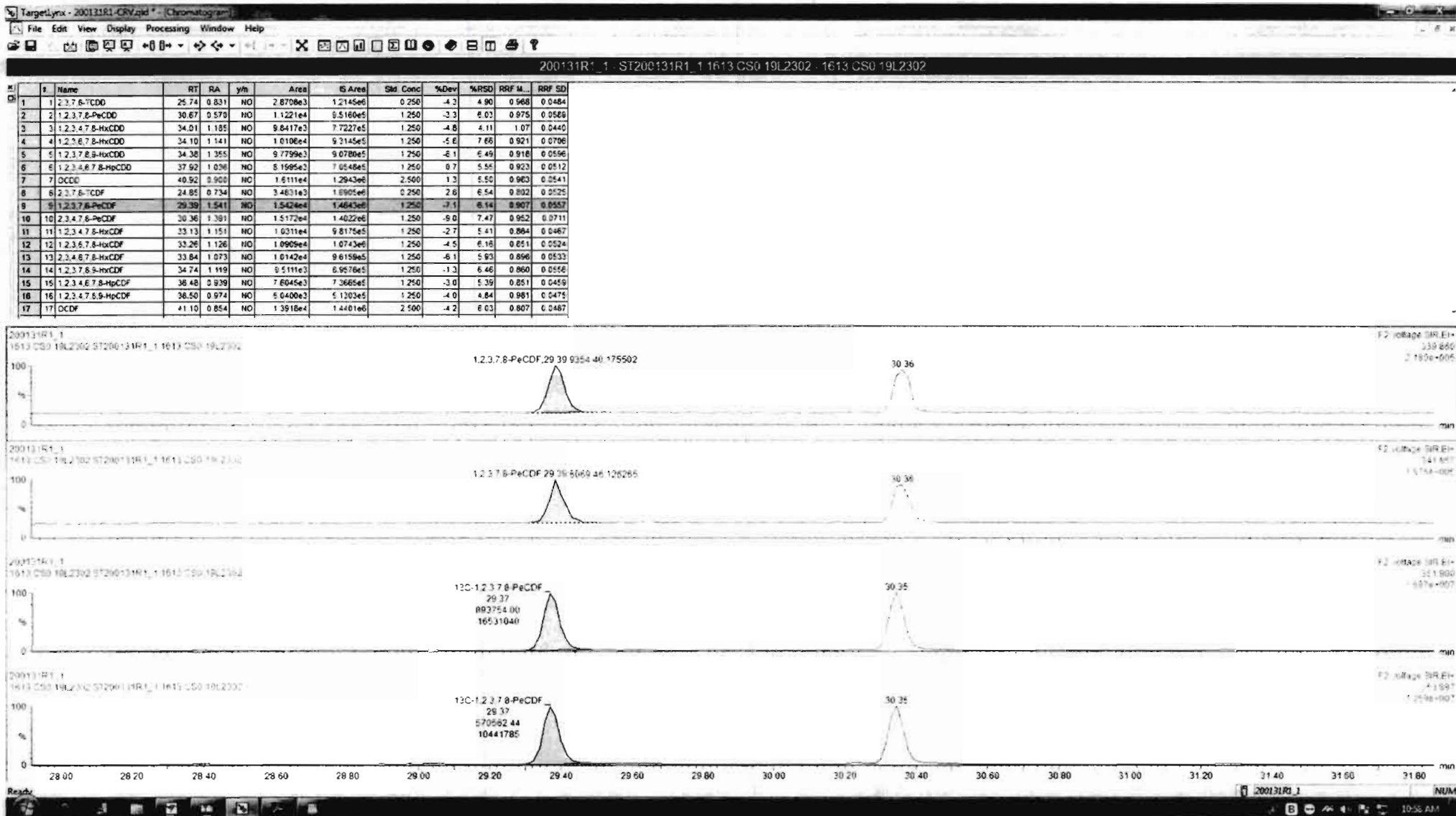
F2:Voltage SIR,EI+
353.897
1.059e+007

DPE2

200131R1_1



F2:Voltage SIR,EI+
409.7974
4.538e+004



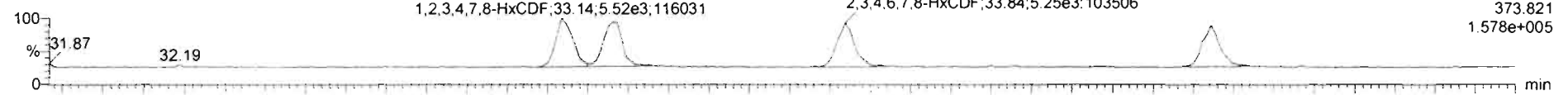
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Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

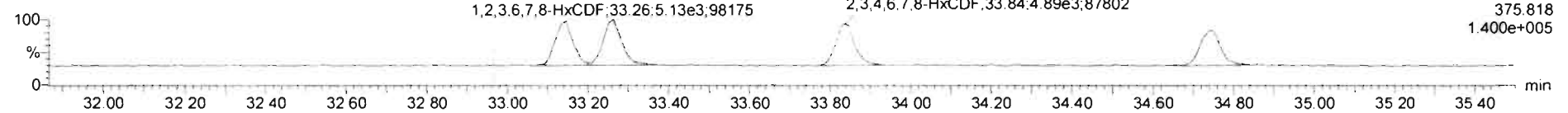
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1,2,3,4,7,8-HxCDF

200131R1_1

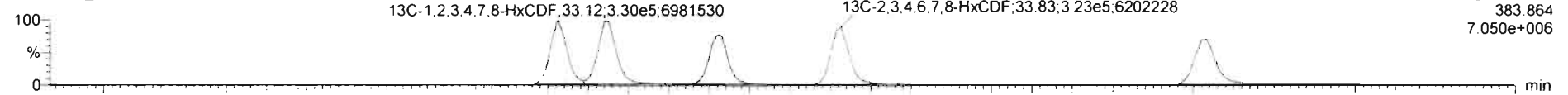


200131R1_1

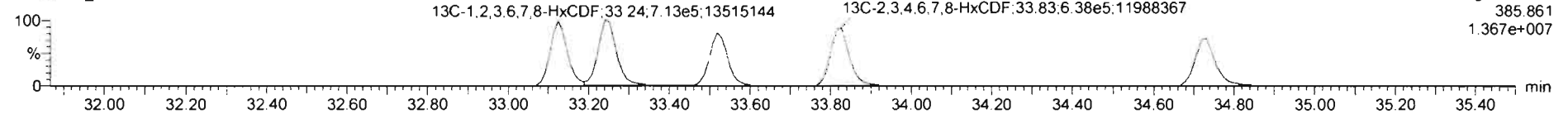


13C-1,2,3,4,7,8-HxCDF

200131R1_1

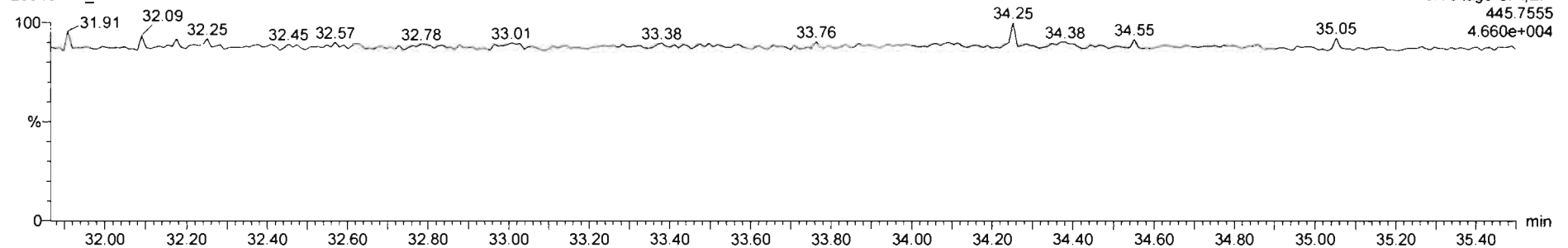


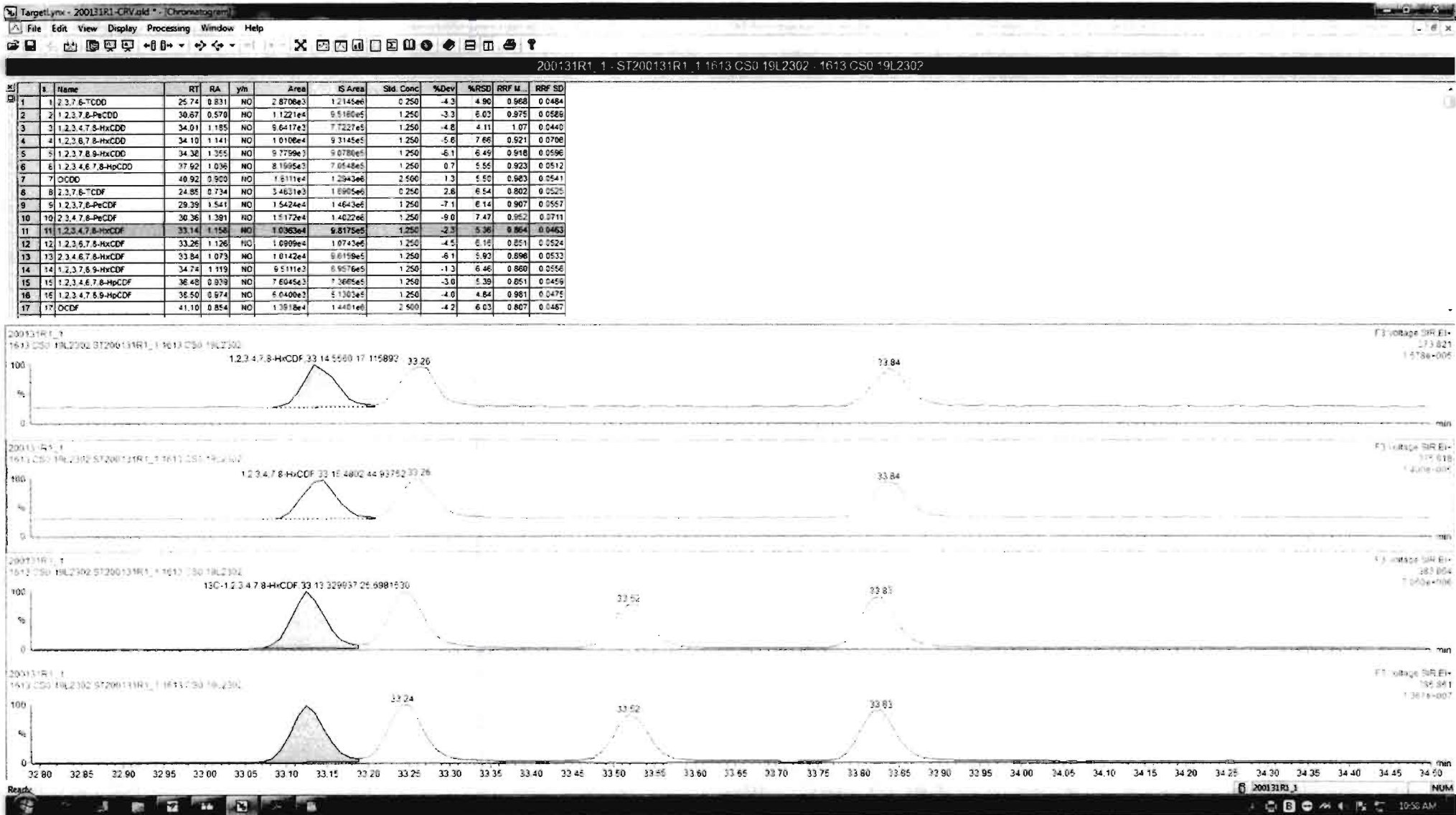
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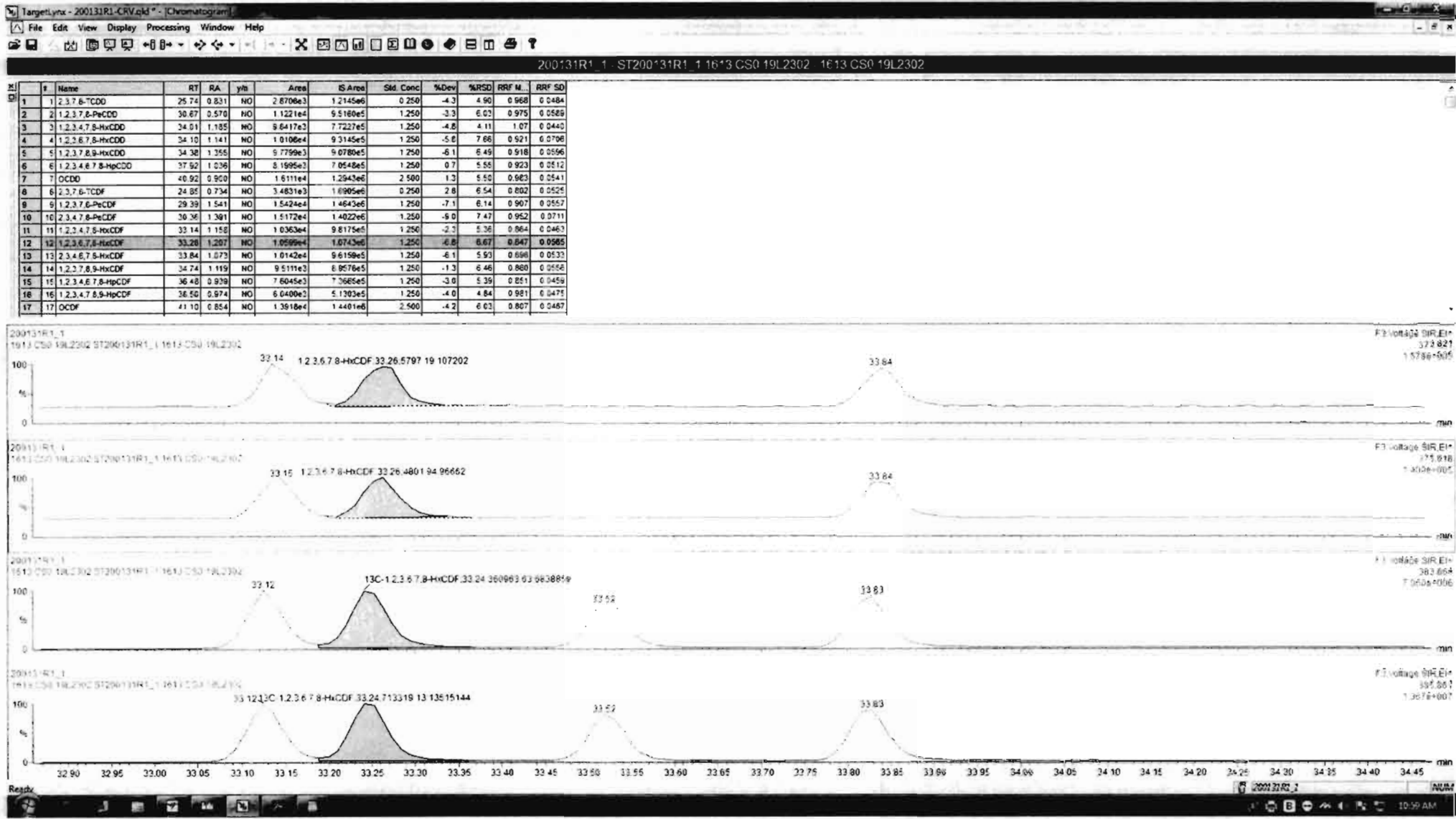


DPE3

200131R1_1







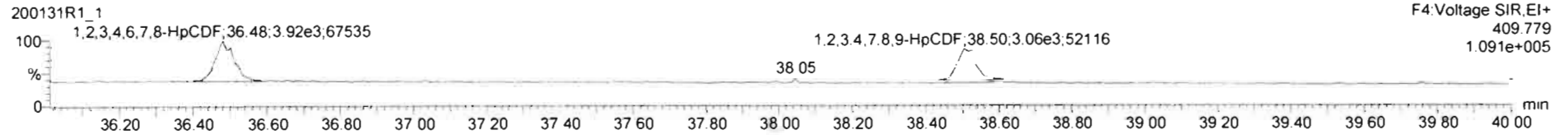
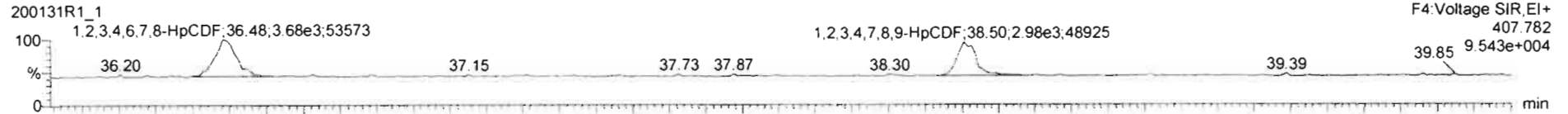
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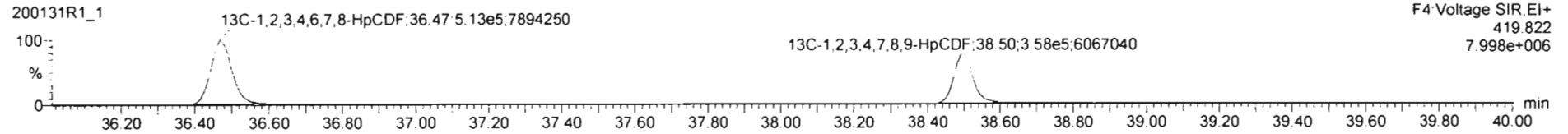
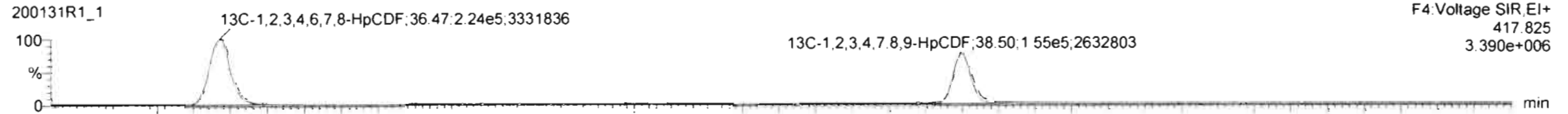
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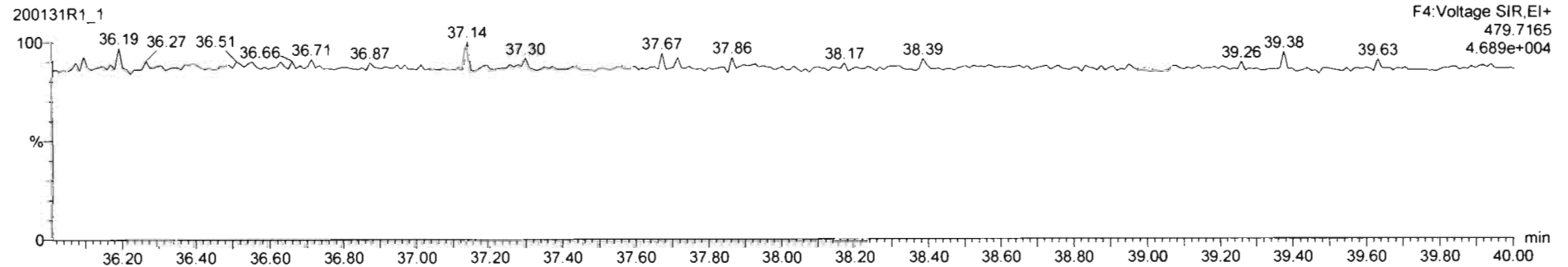
1,2,3,4,6,7,8-HpCDF

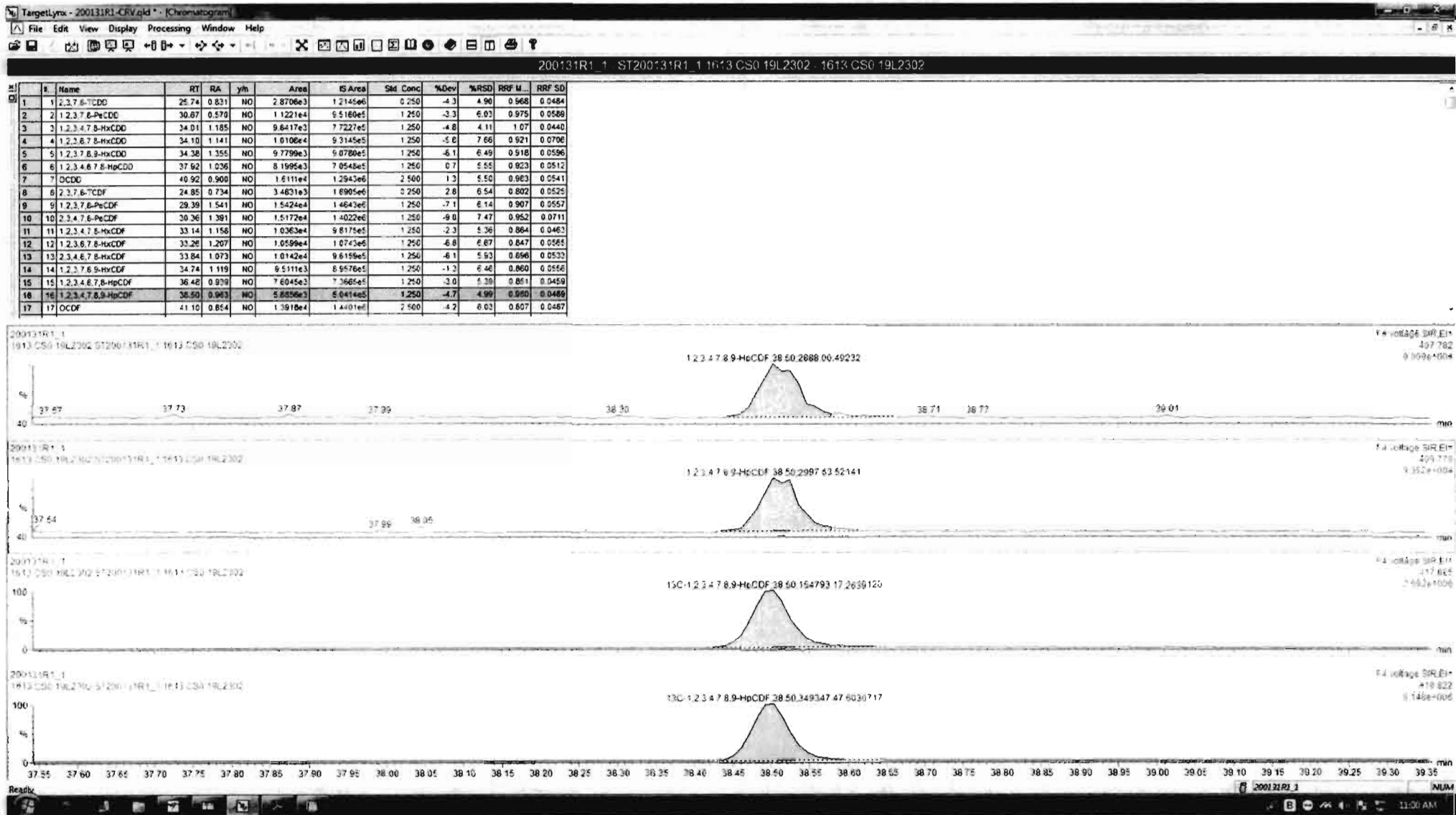


13C-1,2,3,4,6,7,8-HpCDF



DPE4

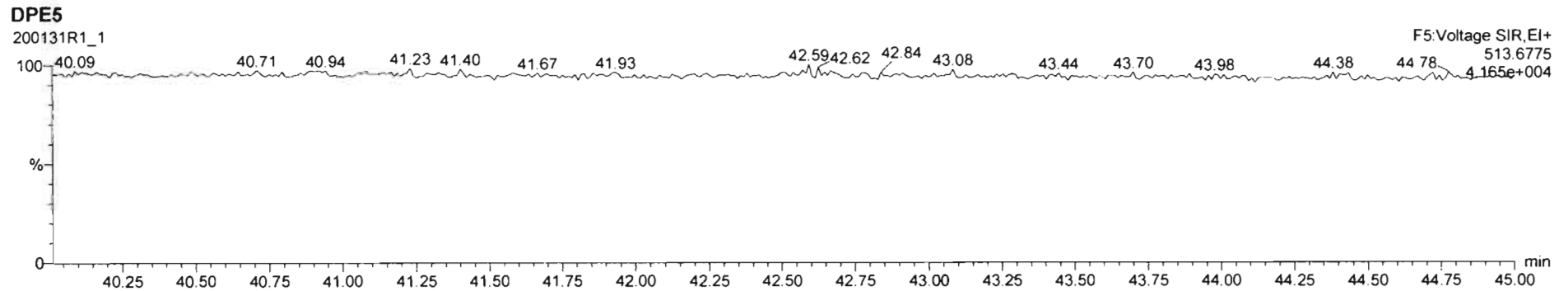
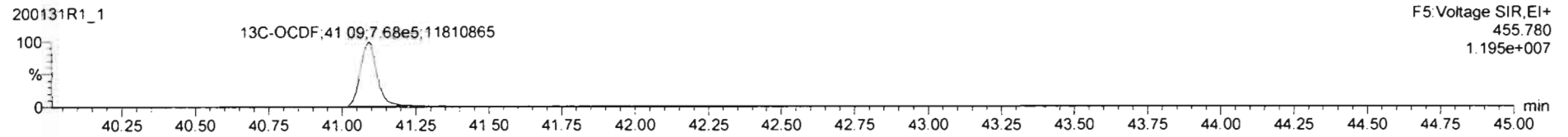
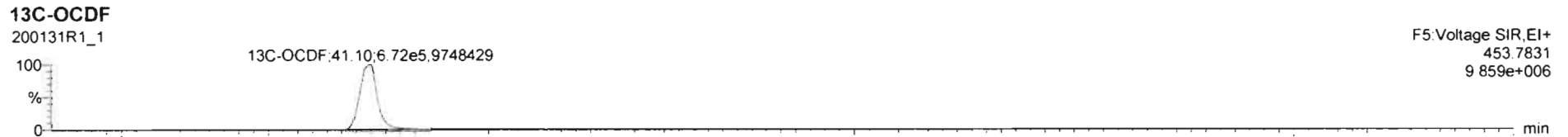
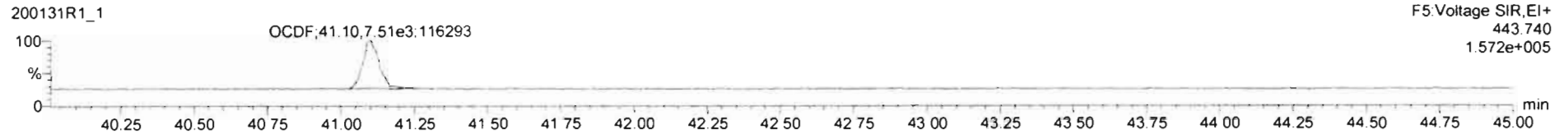
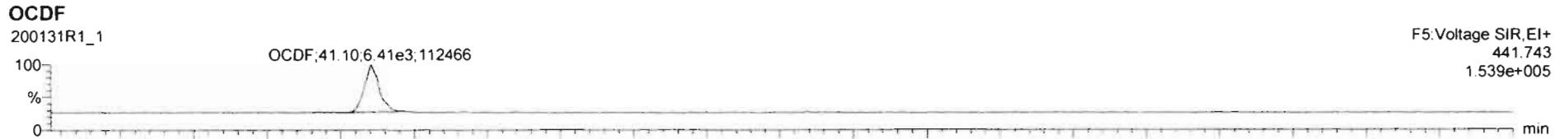




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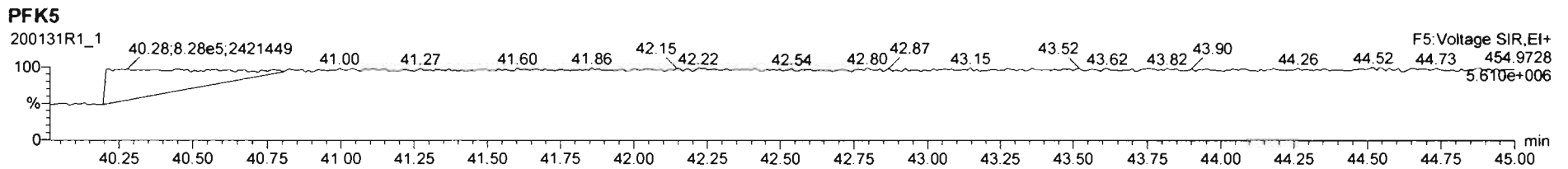
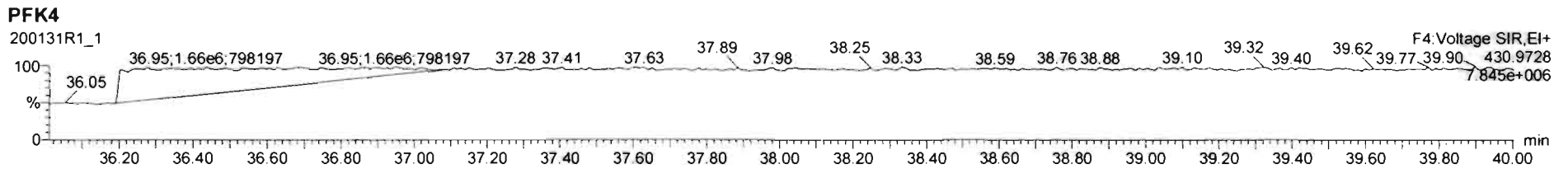
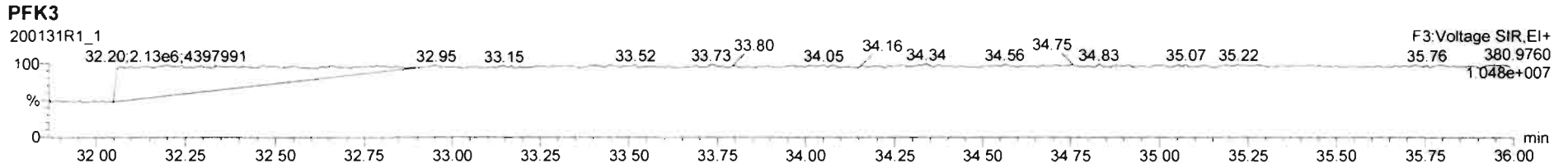
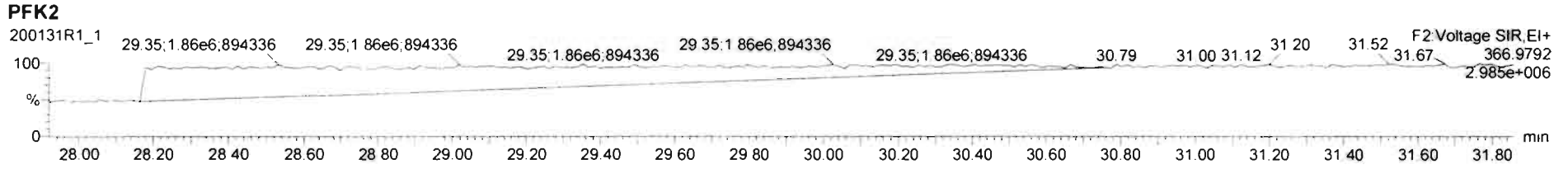
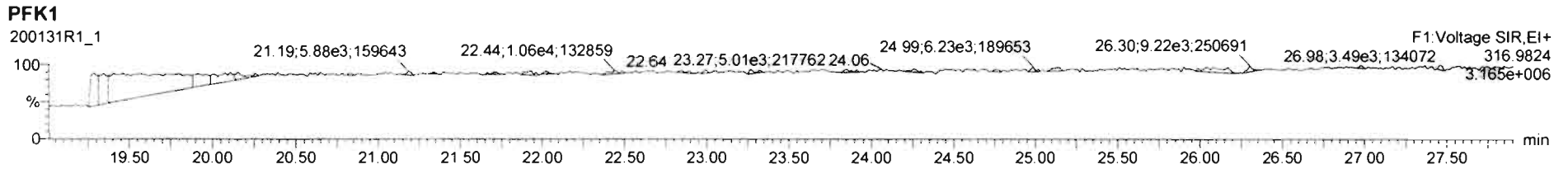


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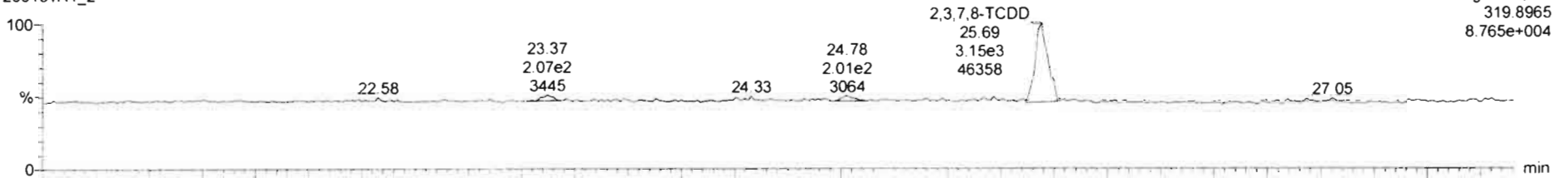
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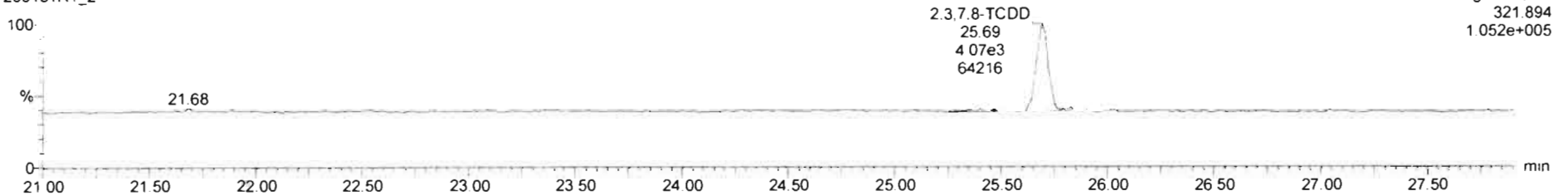
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2,3,7,8-TCDD

200131R1_2

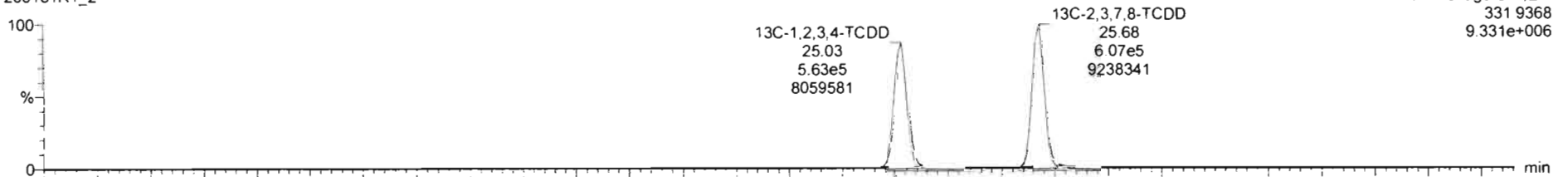


200131R1_2

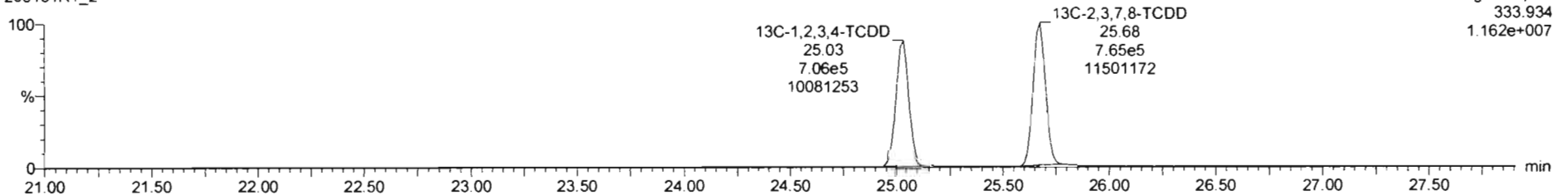


13C-2,3,7,8-TCDD

200131R1_2



200131R1_2



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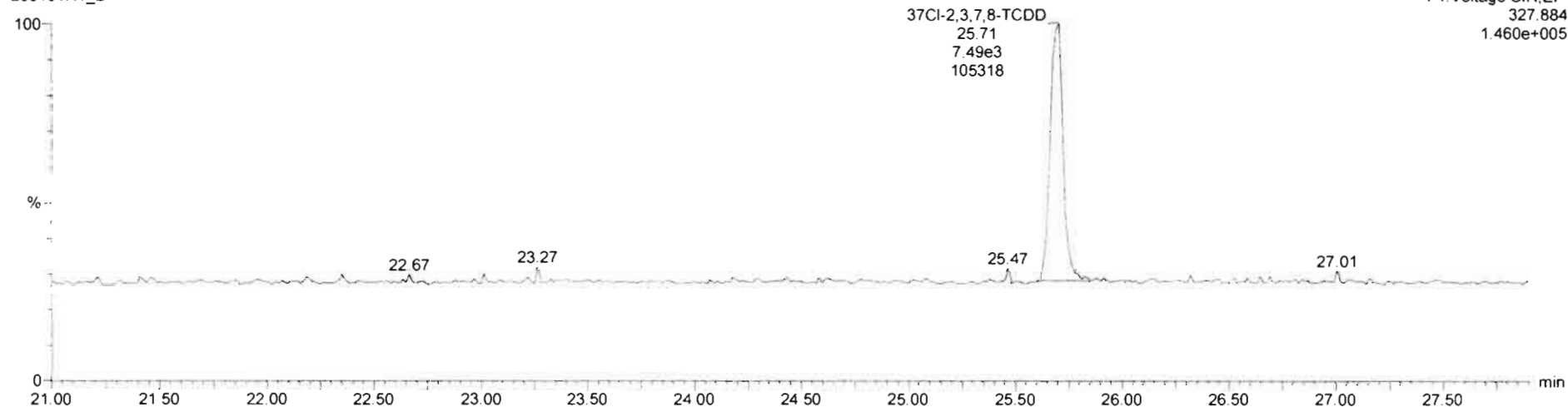
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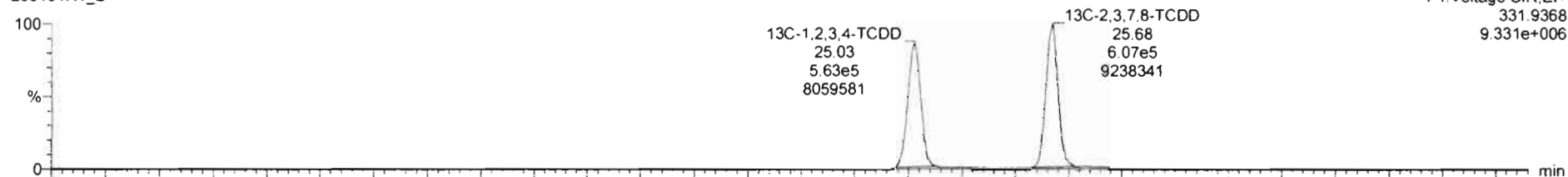
37Cl-2,3,7,8-TCDD

200131R1_2

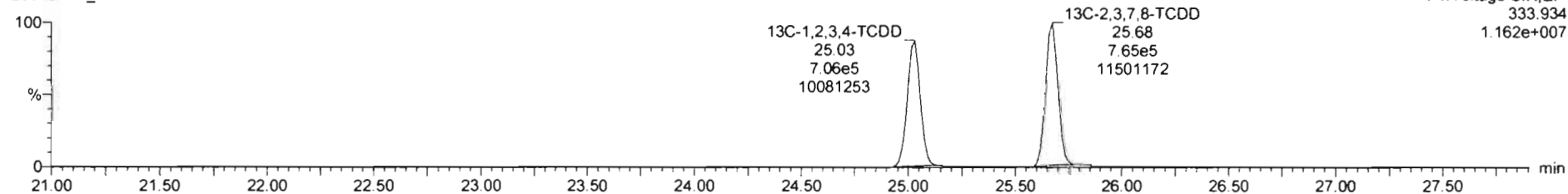


13C-1,2,3,4-TCDD

200131R1_2



200131R1_2



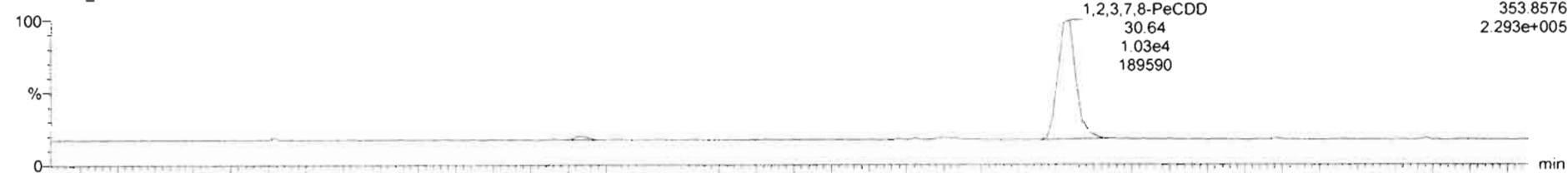
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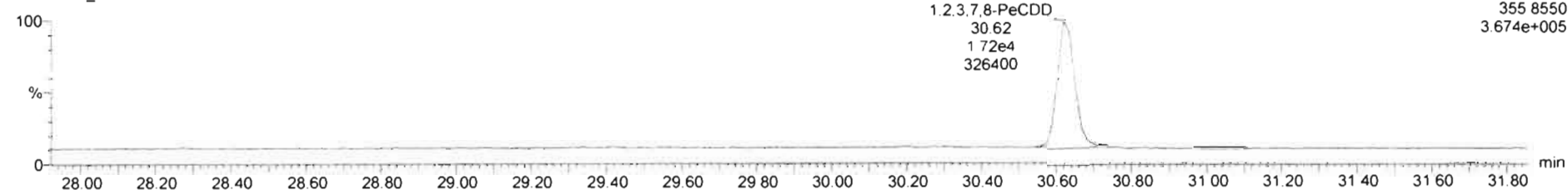
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1,2,3,7,8-PeCDD

200131R1_2

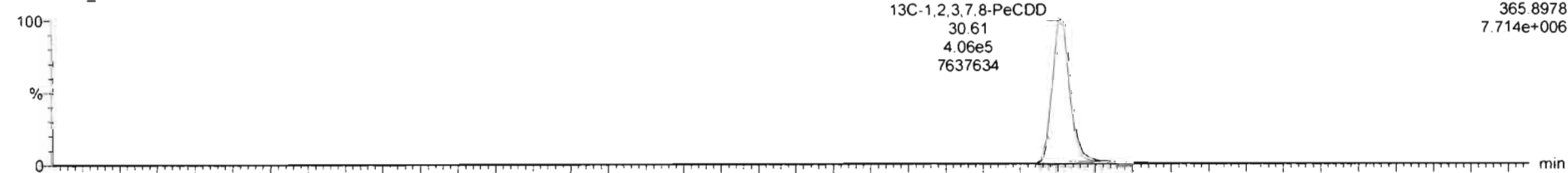


200131R1_2

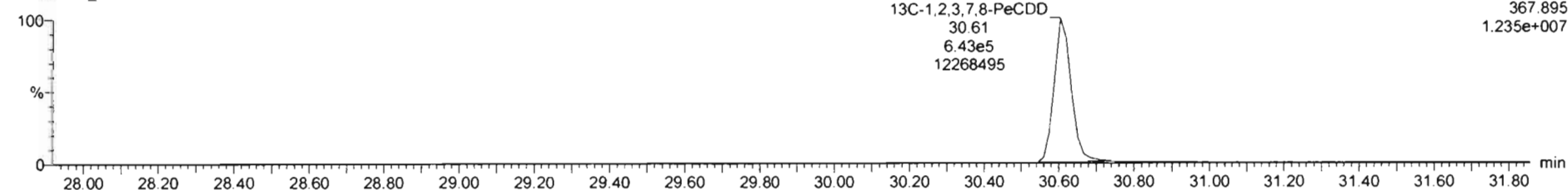


13C-1,2,3,7,8-PeCDD

200131R1_2



200131R1_2



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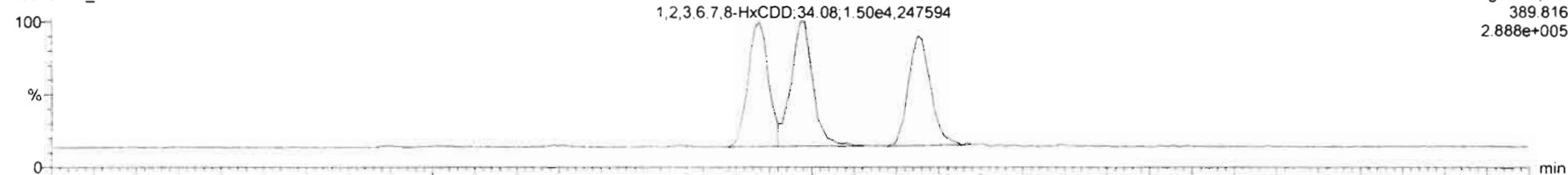
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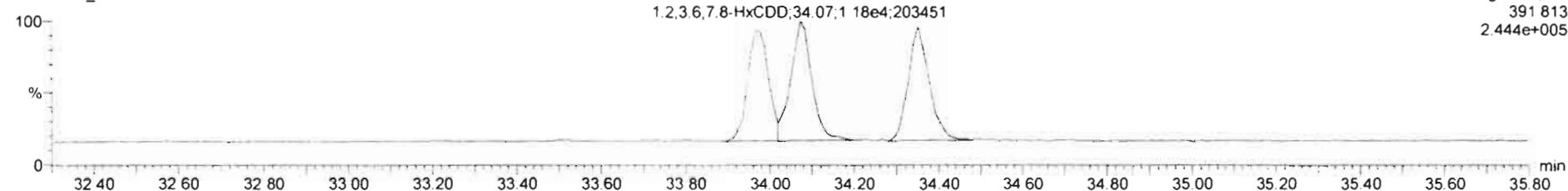
1,2,3,4,7,8-HxCDD

200131R1_2



F3:Voltage SIR,EI+
389.816
2.888e+005

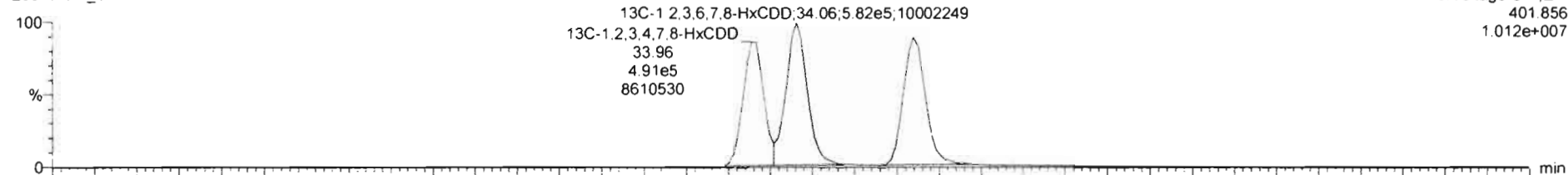
200131R1_2



F3:Voltage SIR,EI+
391.813
2.444e+005

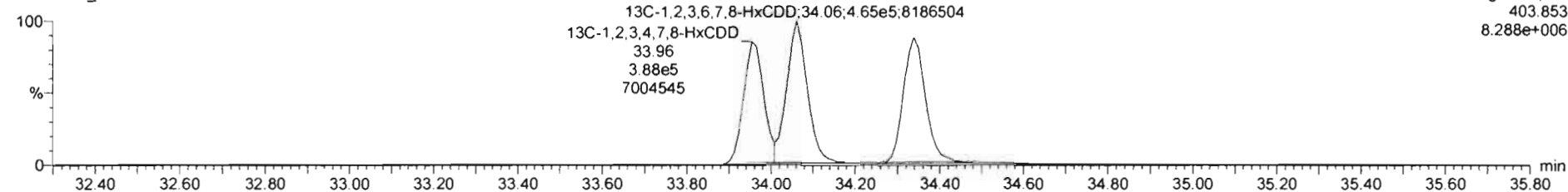
13C-1,2,3,4,7,8-HxCDD

200131R1_2



F3:Voltage SIR,EI+
401.856
1.012e+007

200131R1_2



F3:Voltage SIR,EI+
403.853
8.288e+006

Dataset: Untitled

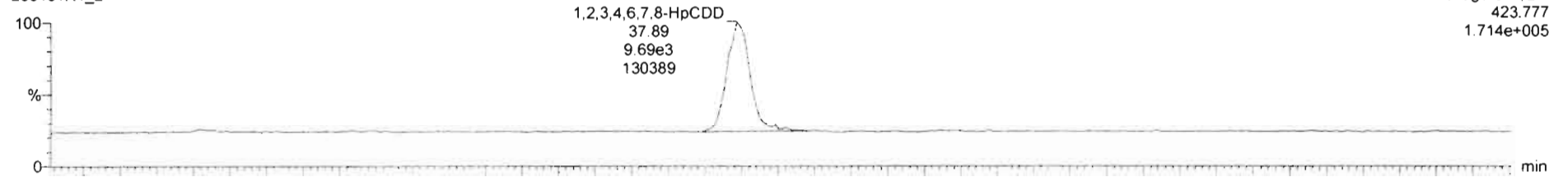
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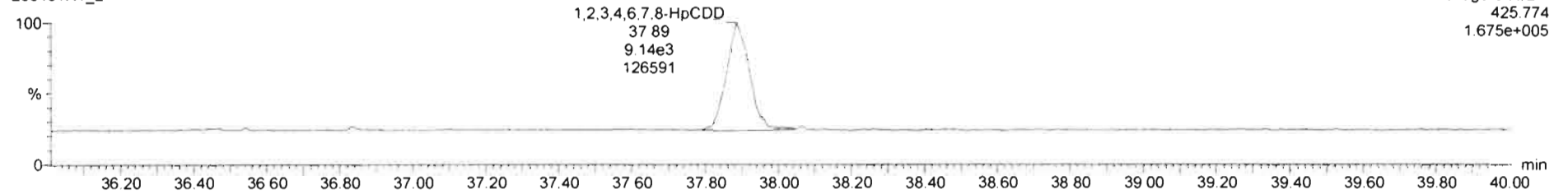
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1,2,3,4,6,7,8-HpCDD

200131R1_2

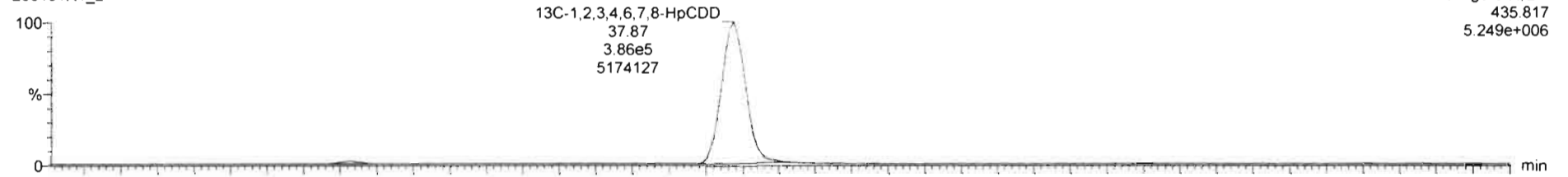


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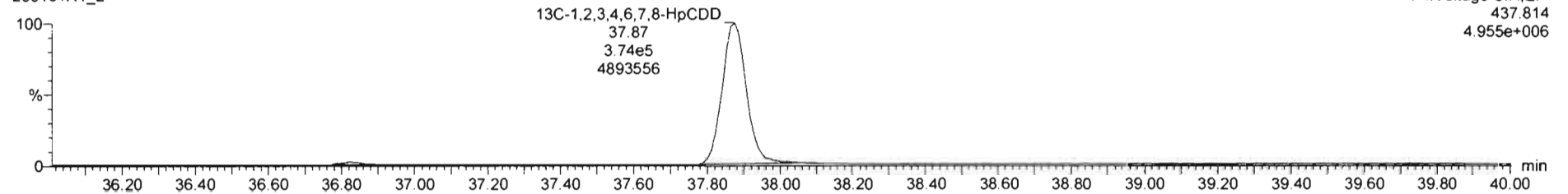


¹³C-1,2,3,4,6,7,8-HpCDD

200131R1_2



200131R1_2

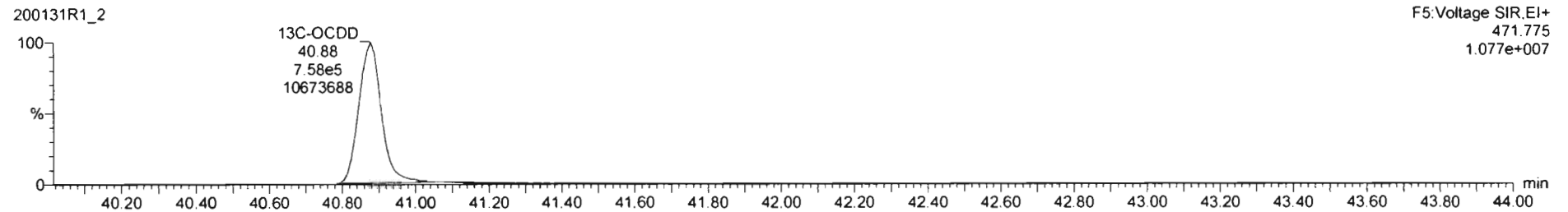
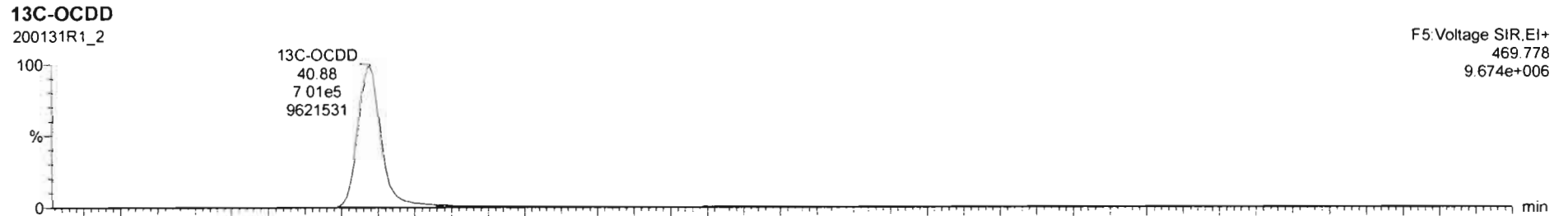
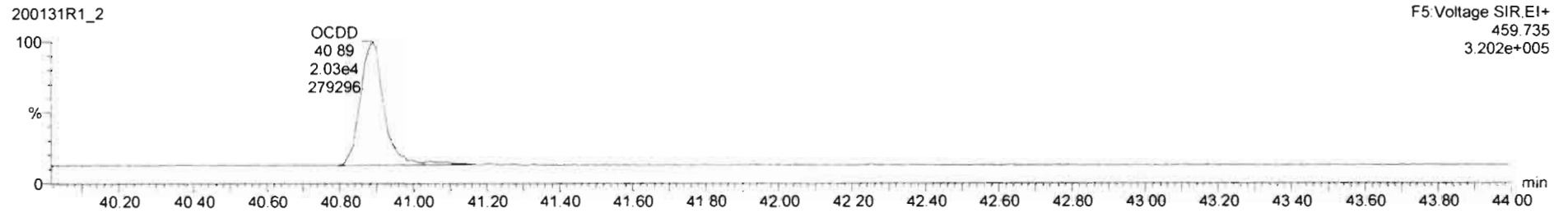
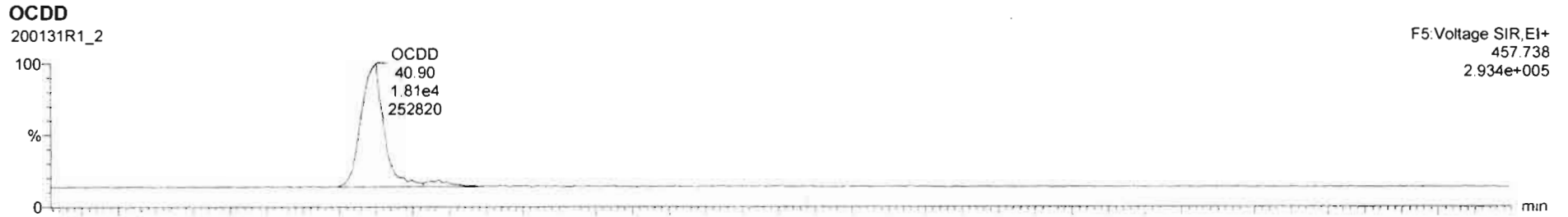


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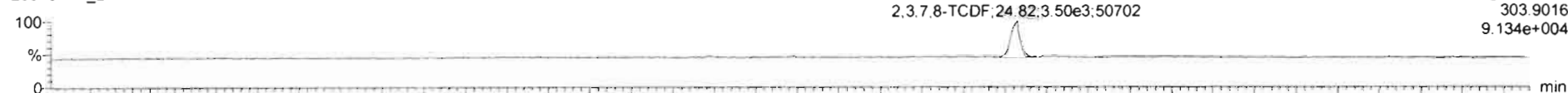
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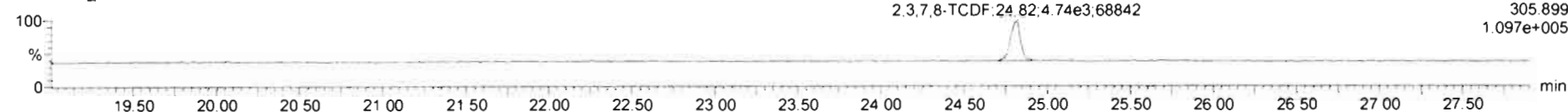
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2,3,7,8-TCDF

200131R1_2

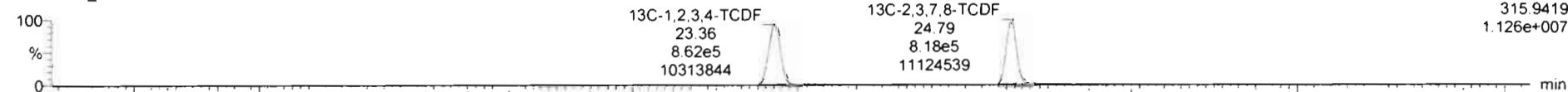


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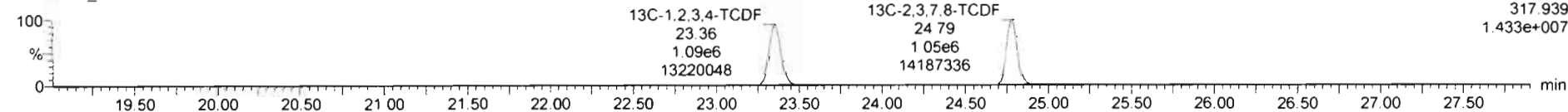


13C-2,3,7,8-TCDF

200131R1_2

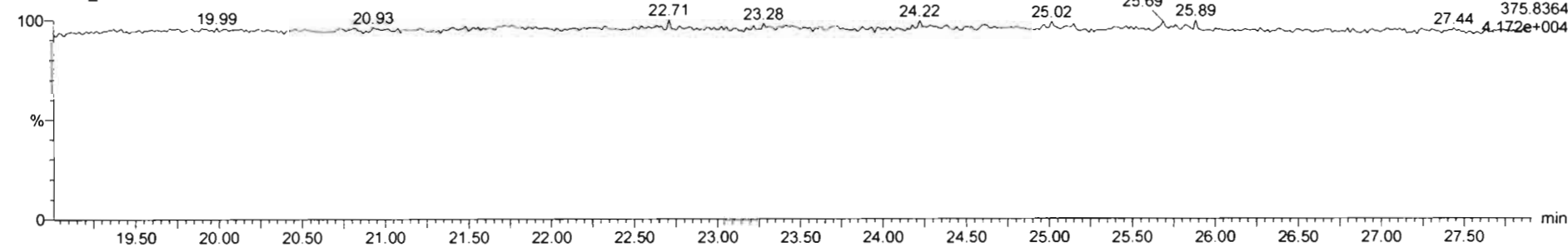


200131R1_2



DPE1

200131R1_2



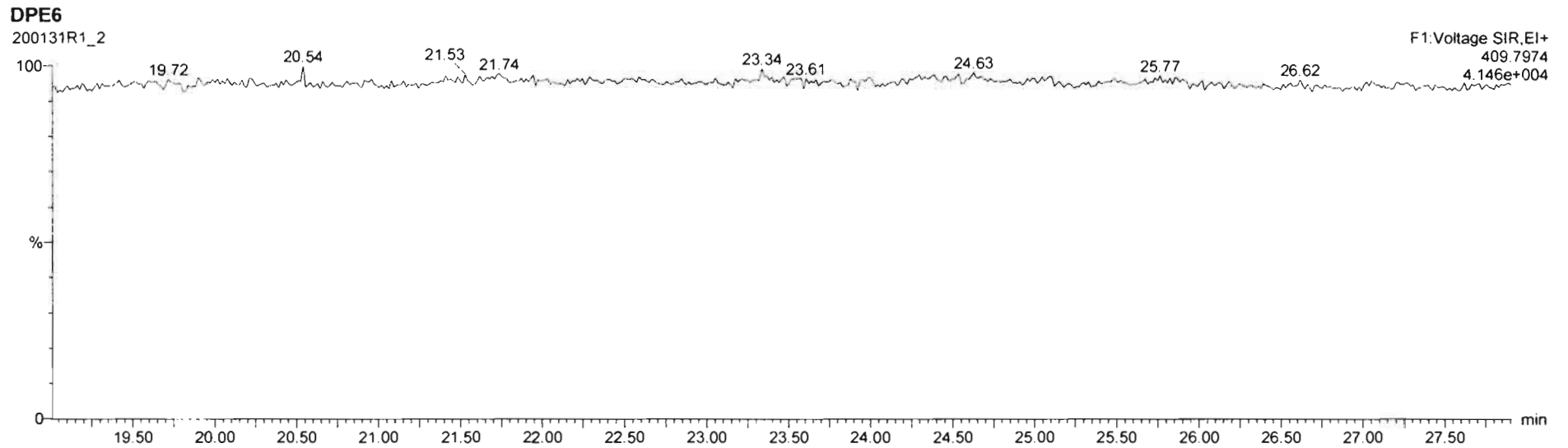
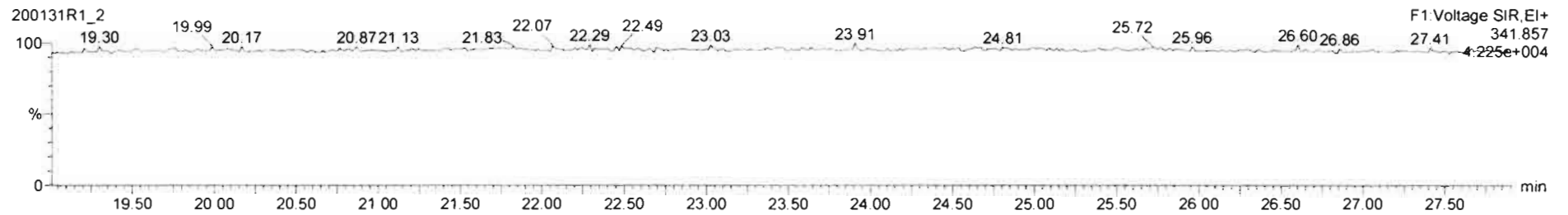
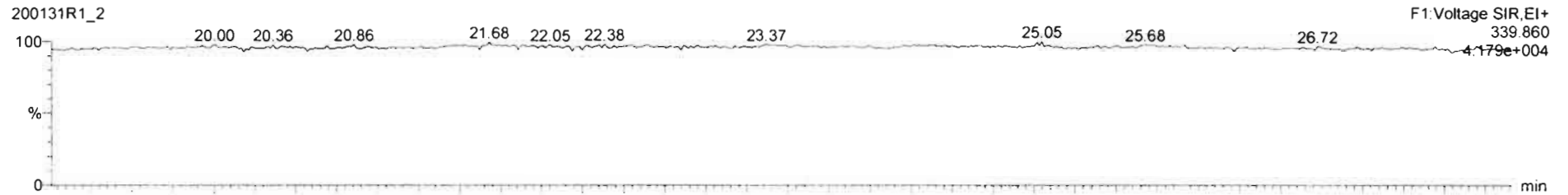
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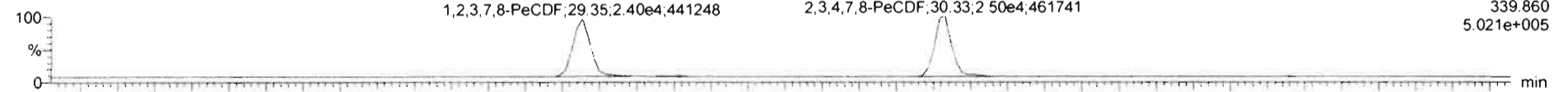
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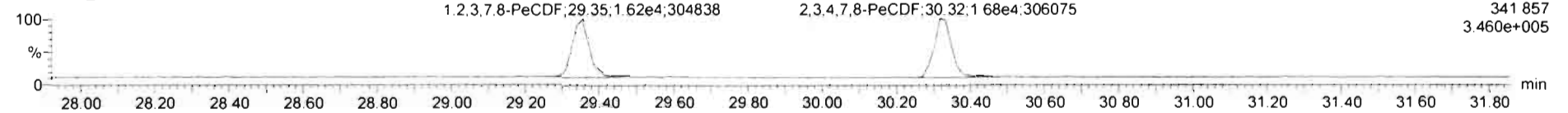
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1,2,3,7,8-PeCDF

200131R1_2

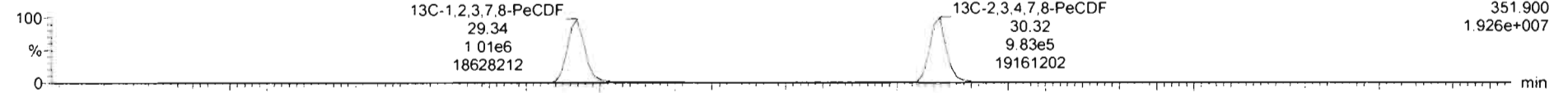


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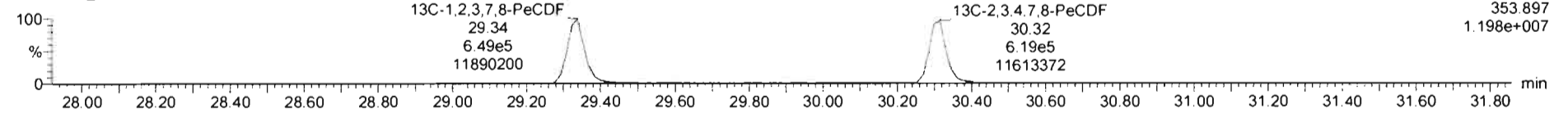


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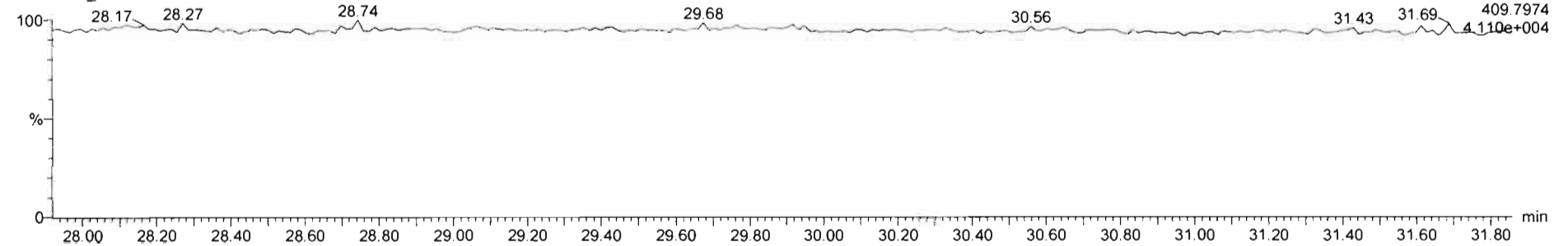


200131R1_2



DPE2

200131R1_2



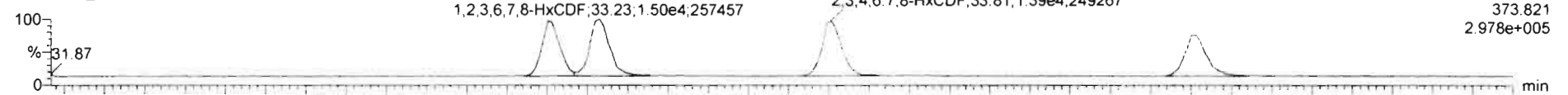
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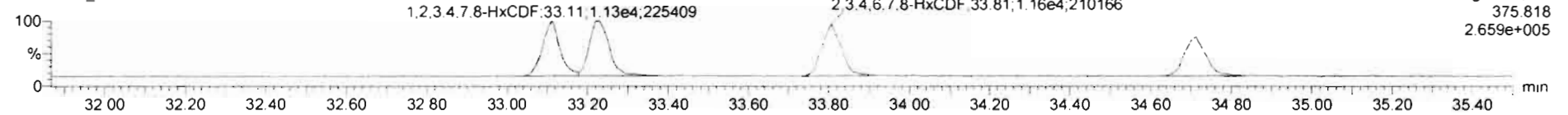
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1,2,3,4,7,8-HxCDF

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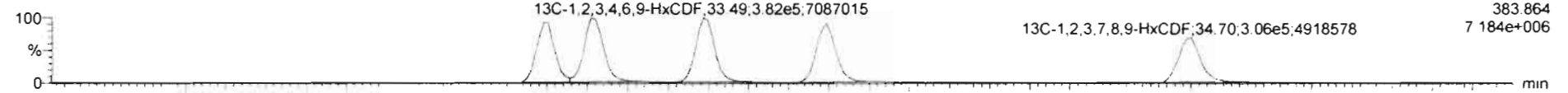


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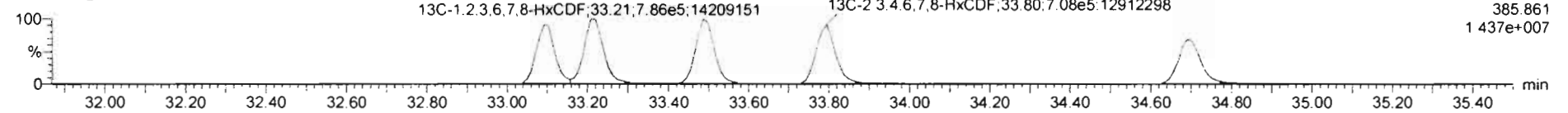


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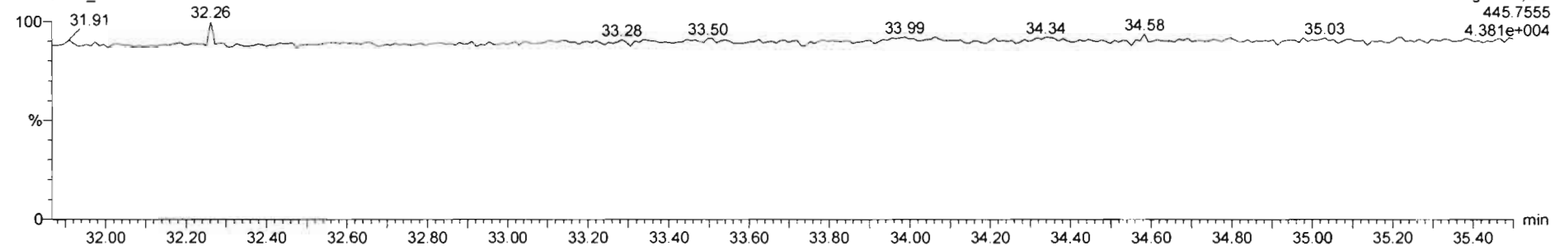


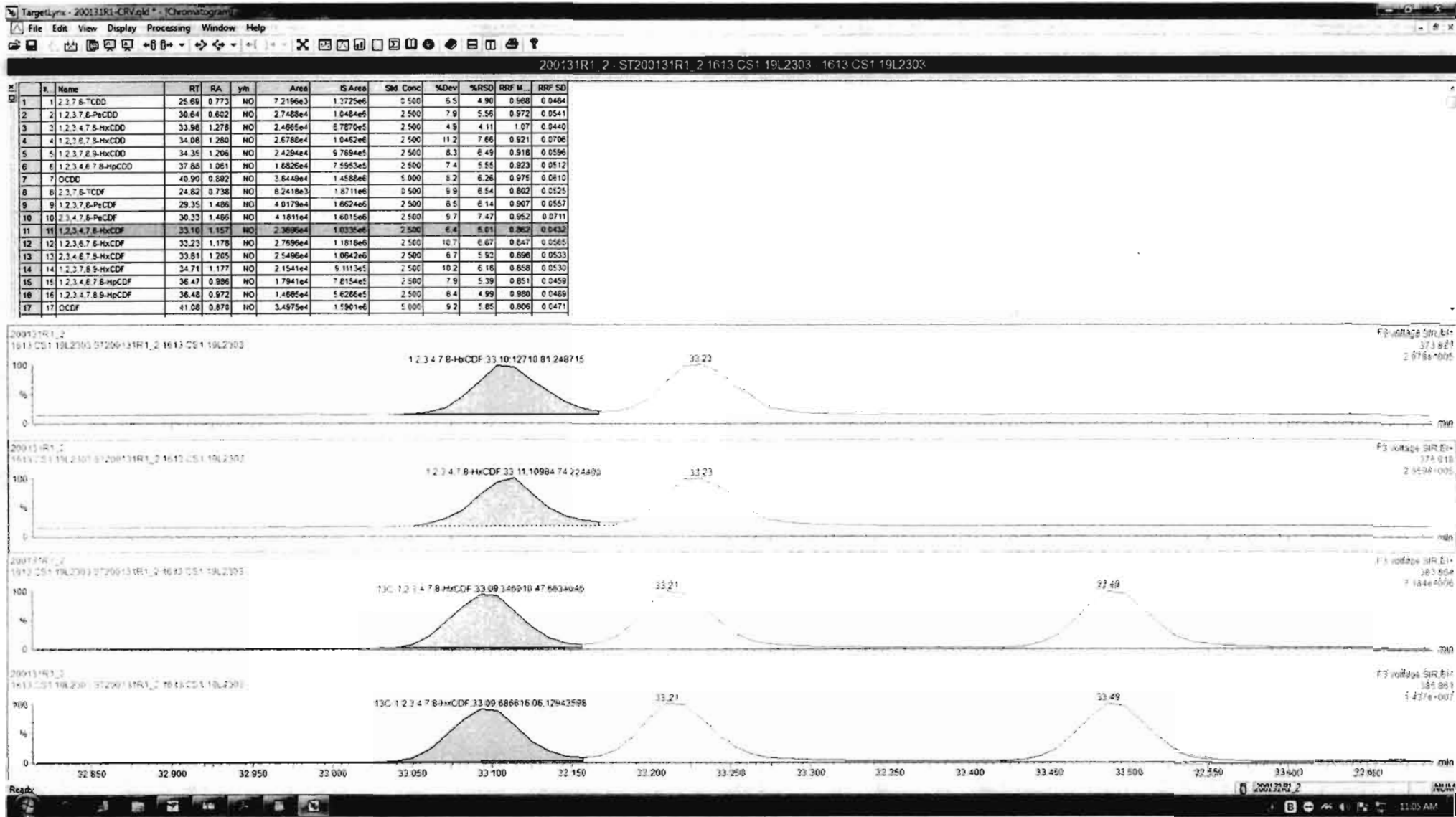
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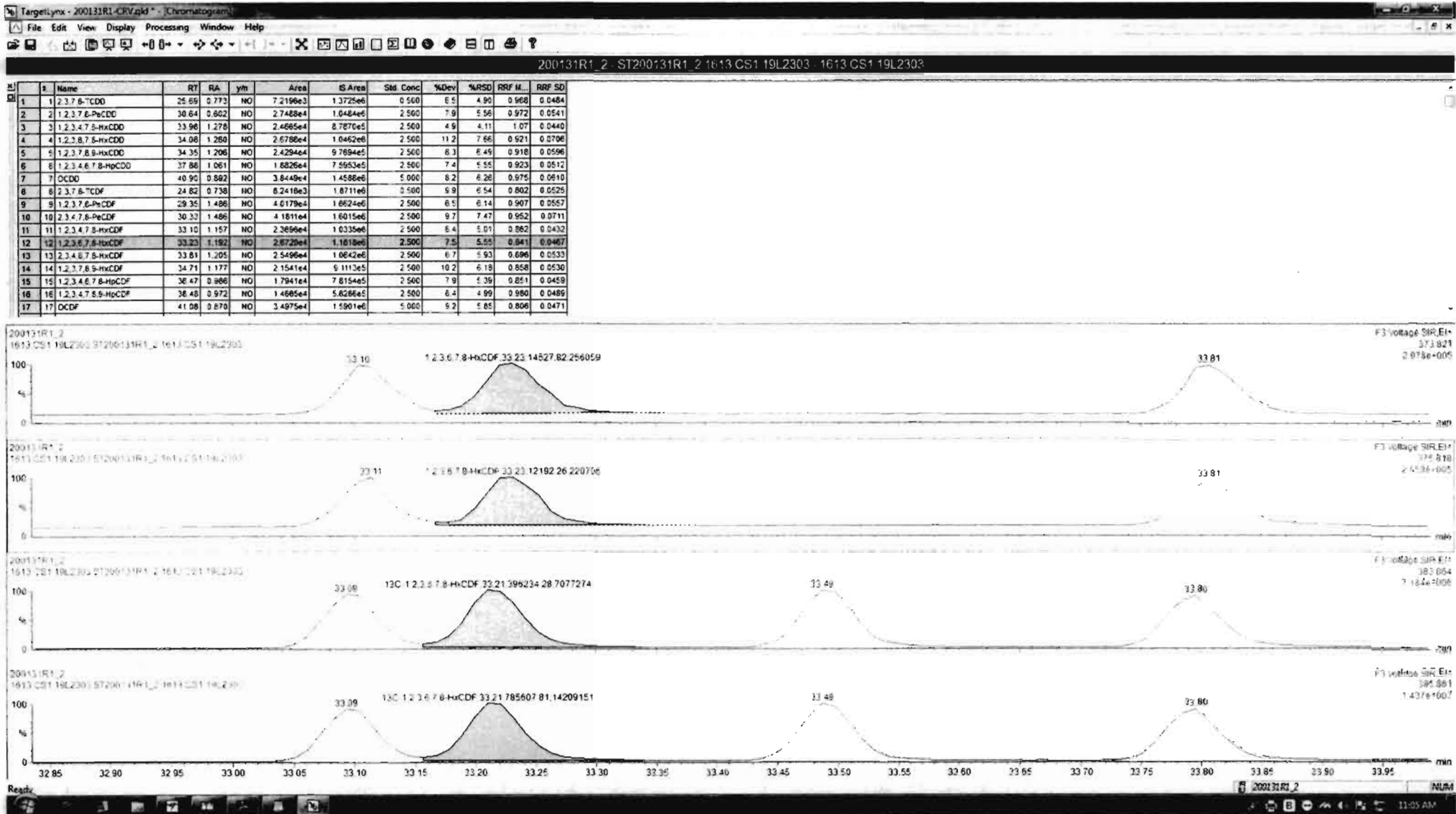


DPE3

200131R1_2





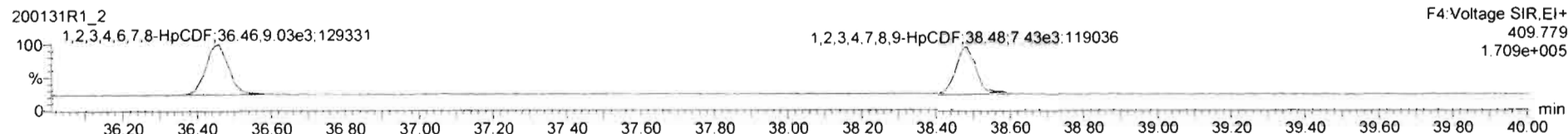
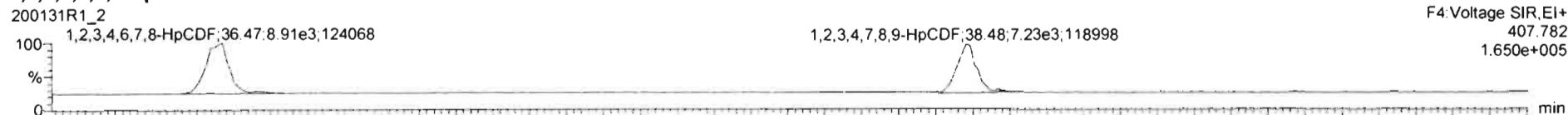


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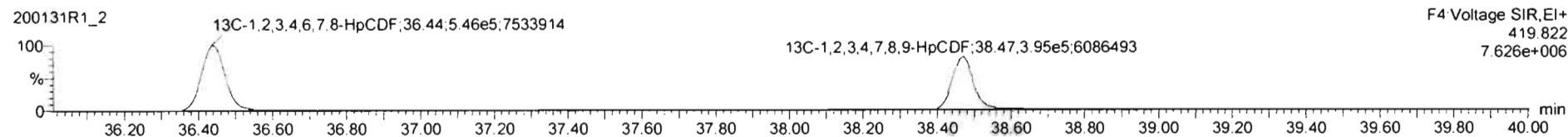
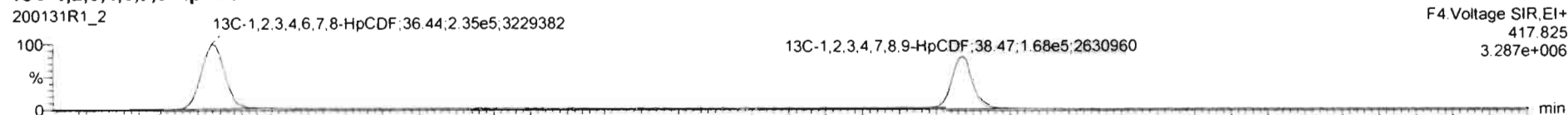
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

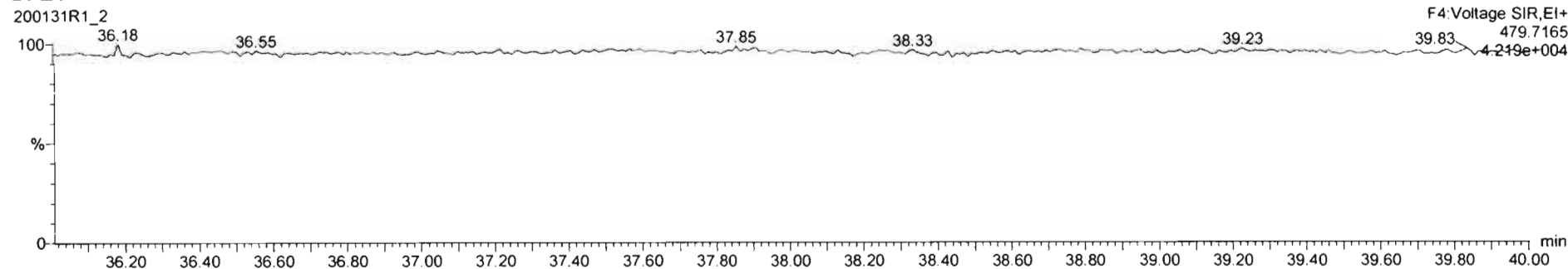
1,2,3,4,6,7,8-HpCDF



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



DPE4



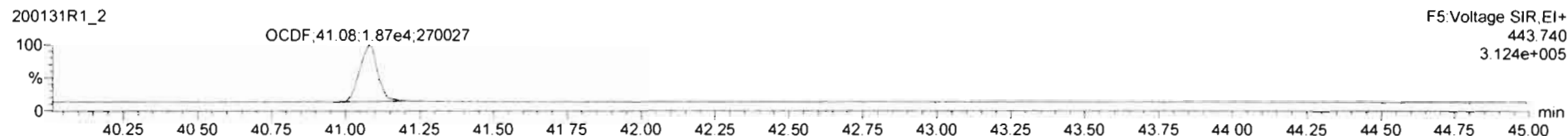
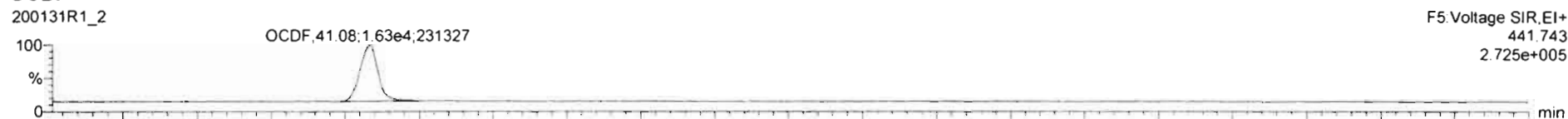
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Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

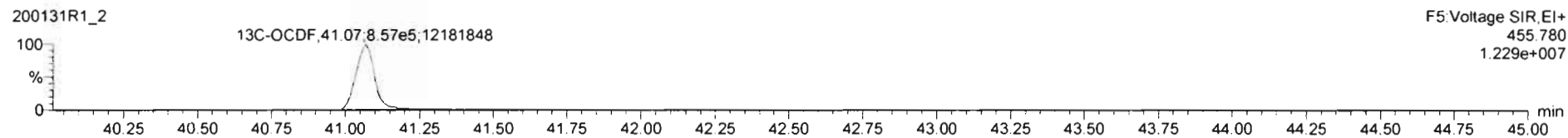
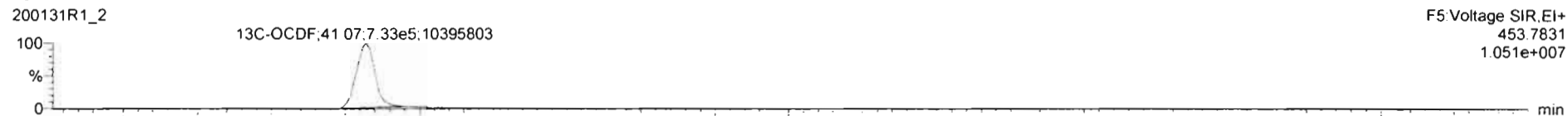
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

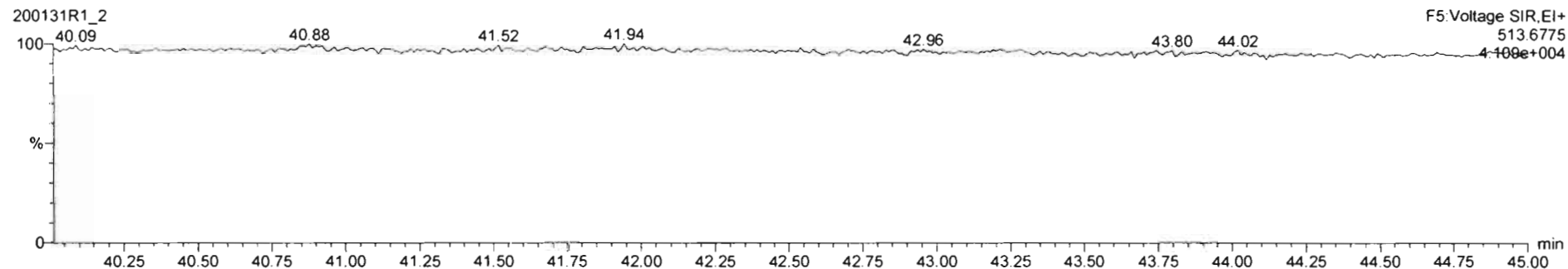
OCDF



13C-OCDF



DPE5

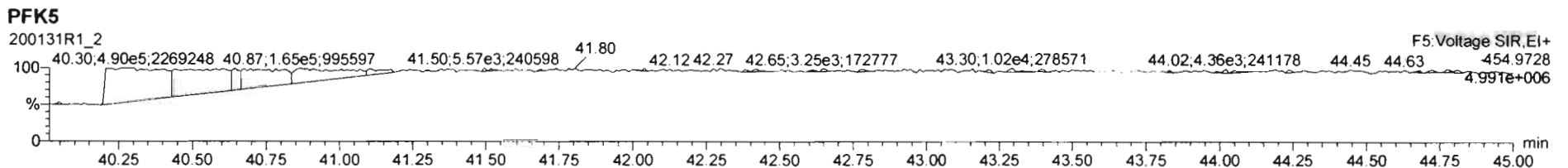
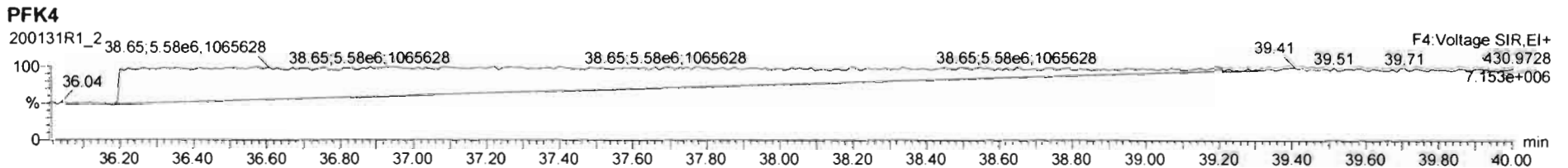
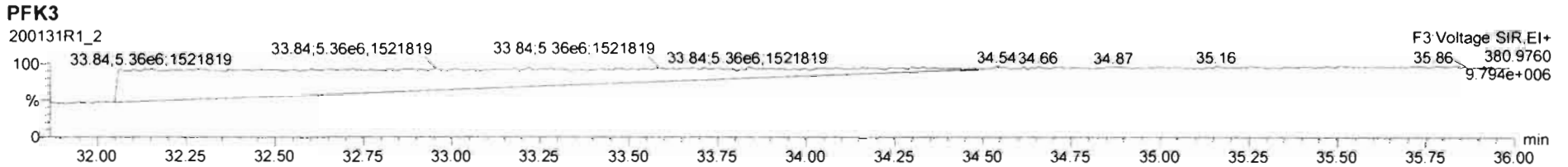
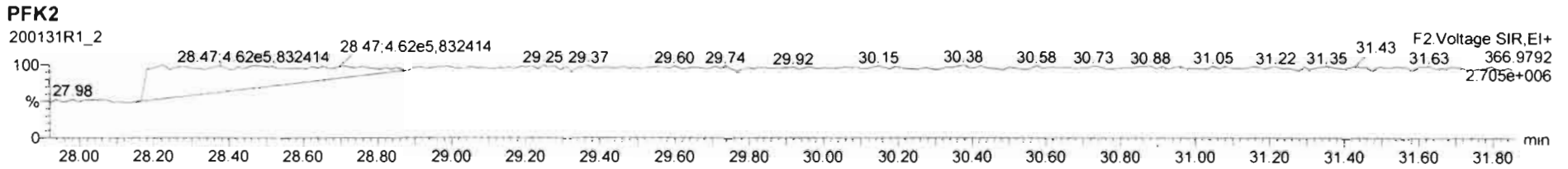
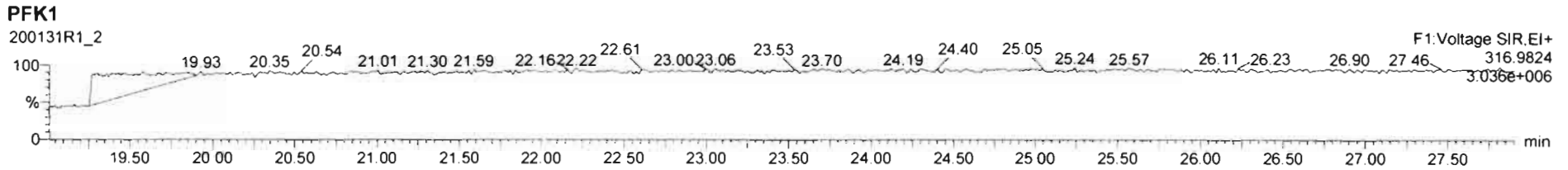


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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



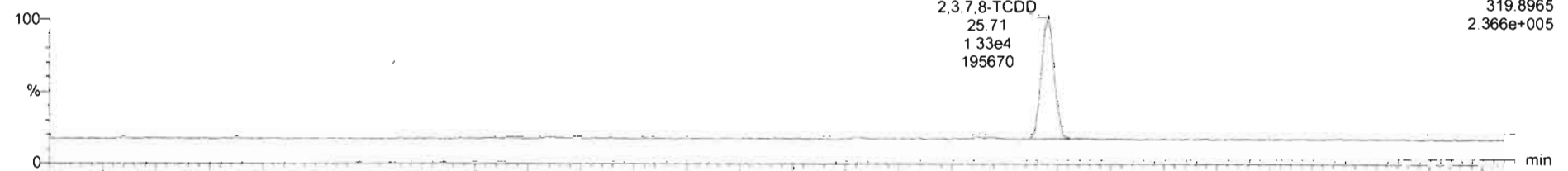
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

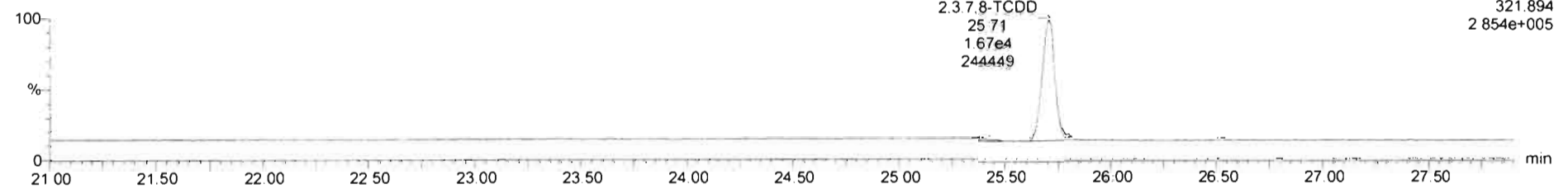
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2,3,7,8-TCDD

200131R1_3

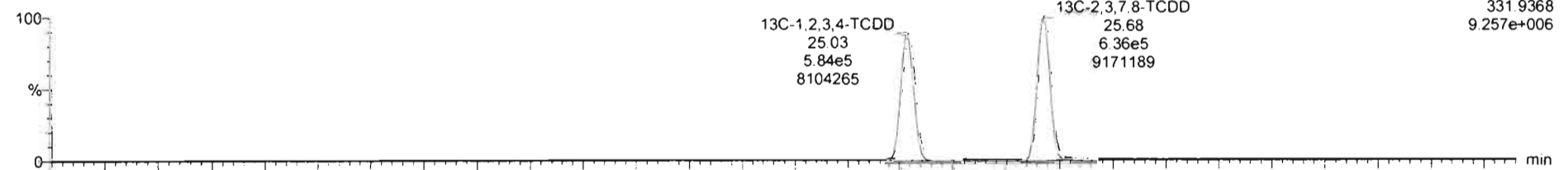


200131R1_3

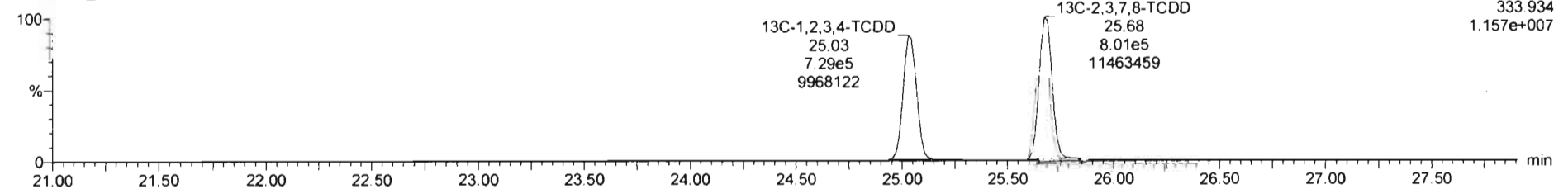


13C-2,3,7,8-TCDD

200131R1_3



200131R1_3



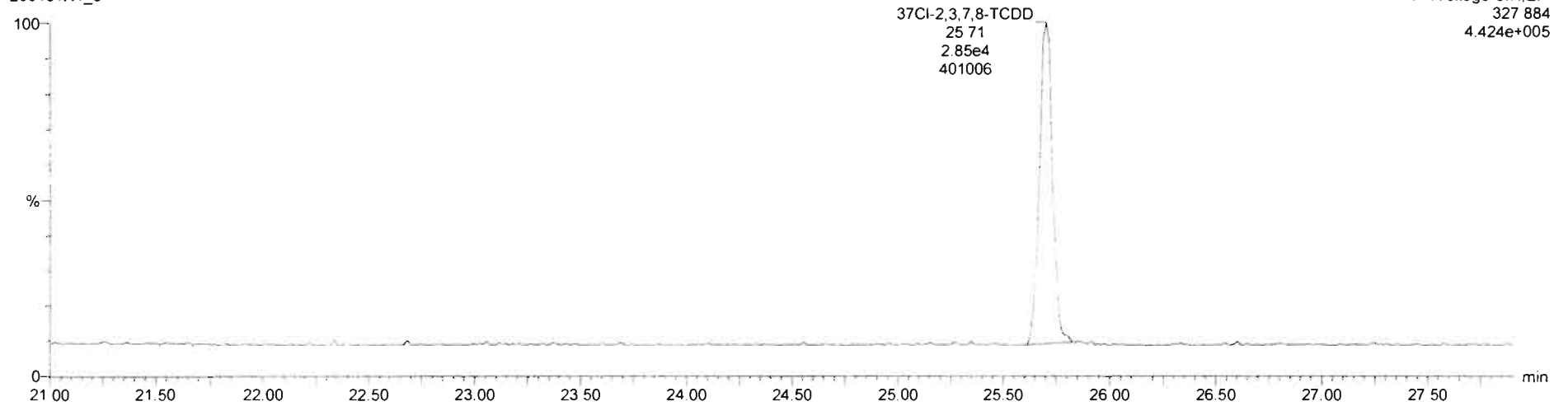
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

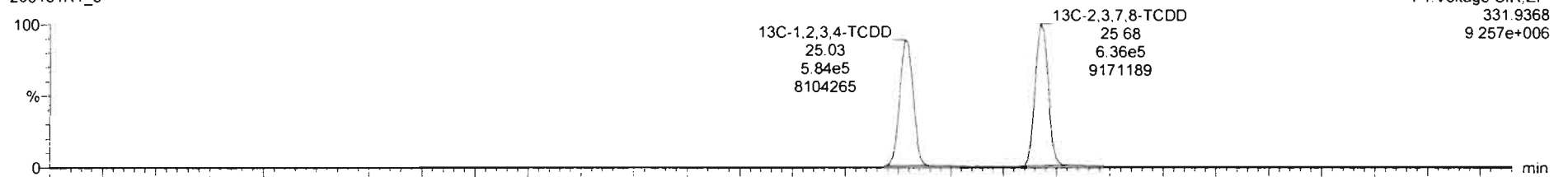
37Cl-2,3,7,8-TCDD

200131R1_3

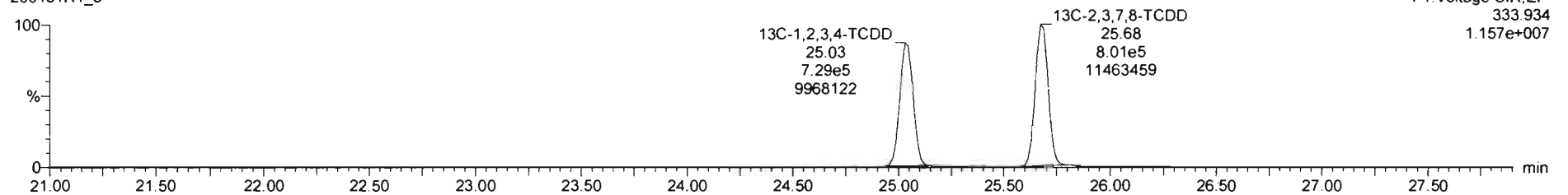


13C-1,2,3,4-TCDD

200131R1_3



200131R1_3



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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

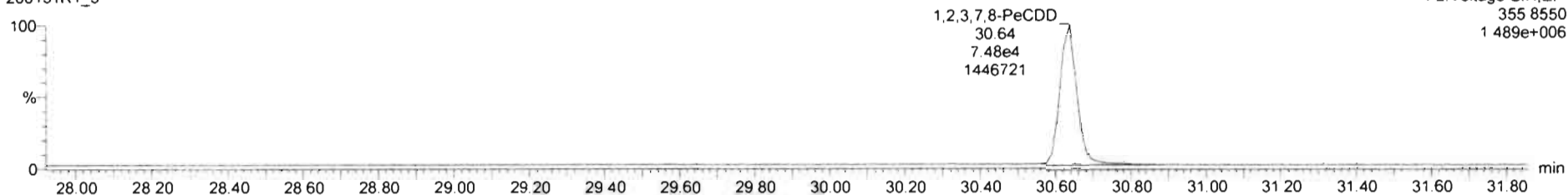
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1,2,3,7,8-PeCDD

200131R1_3

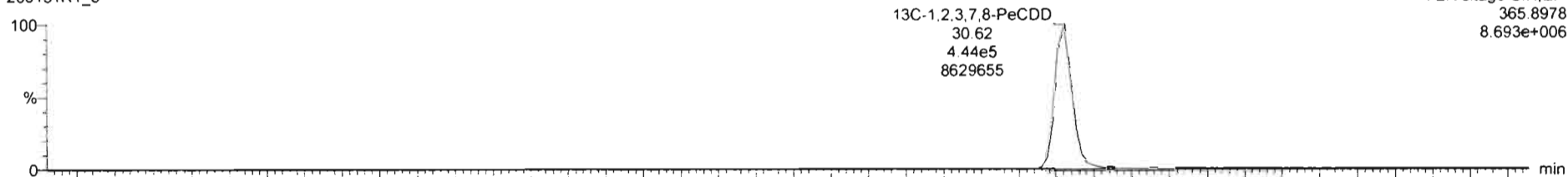


200131R1_3

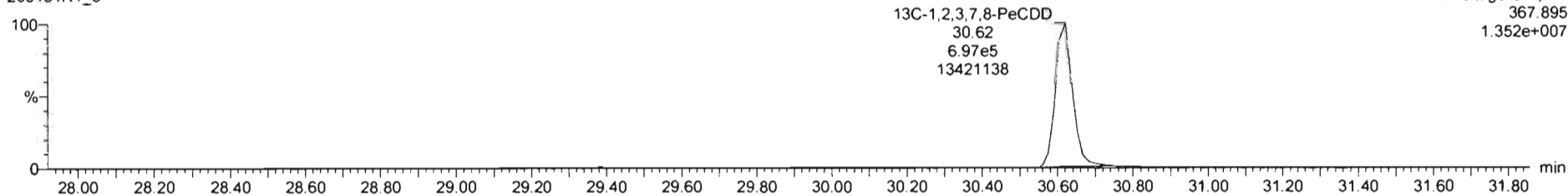


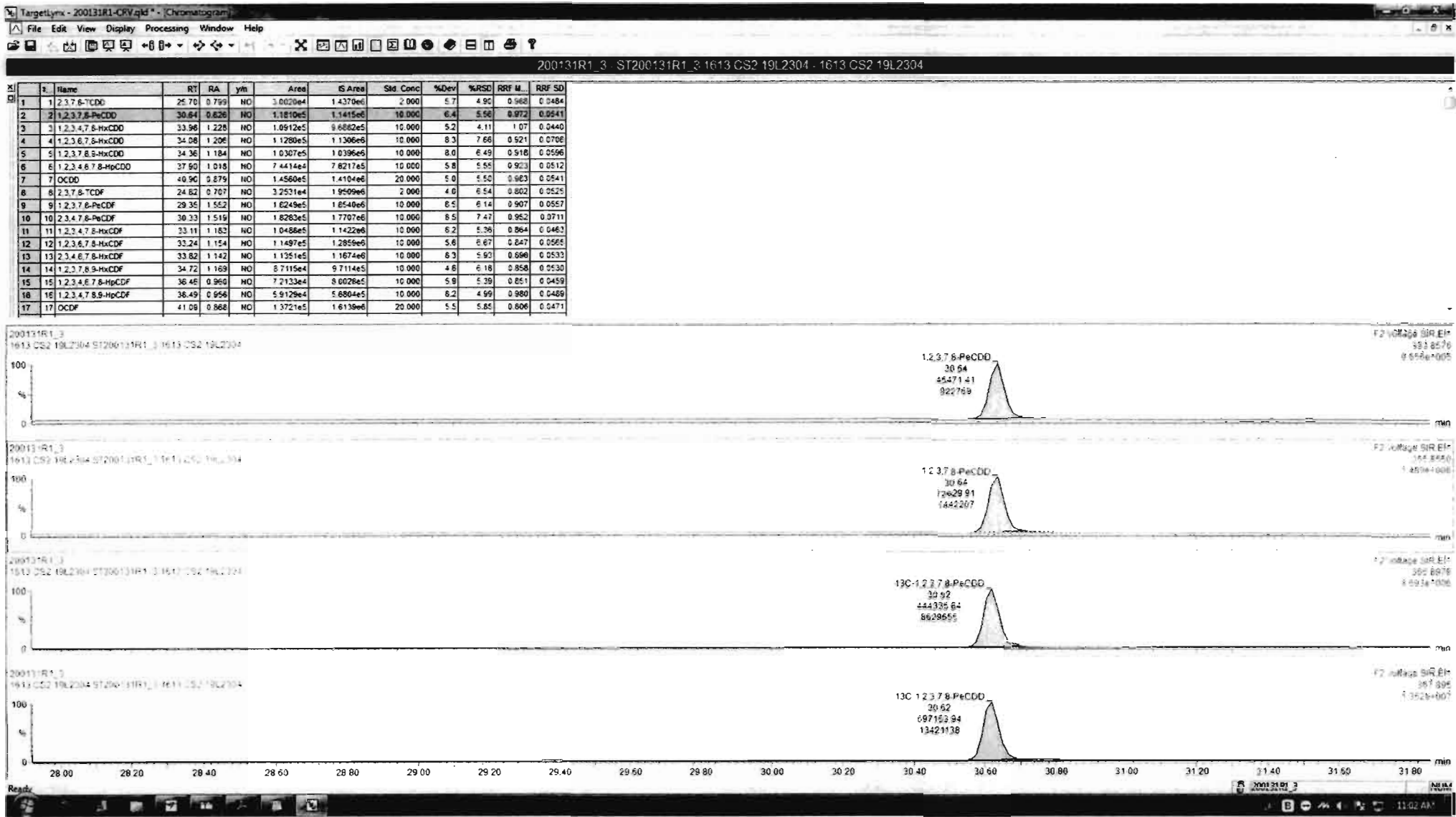
13C-1,2,3,7,8-PeCDD

200131R1_3



200131R1_3





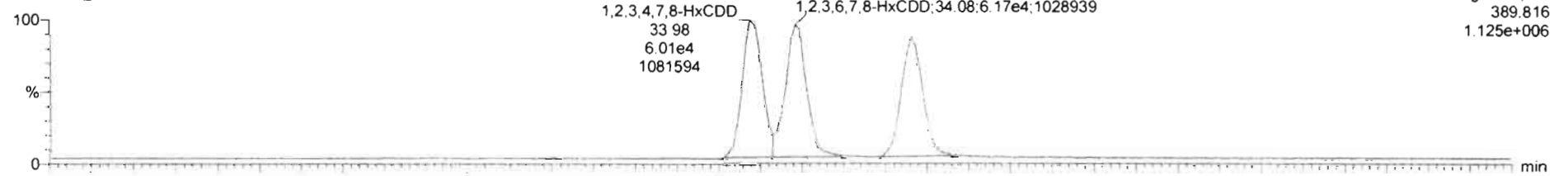
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

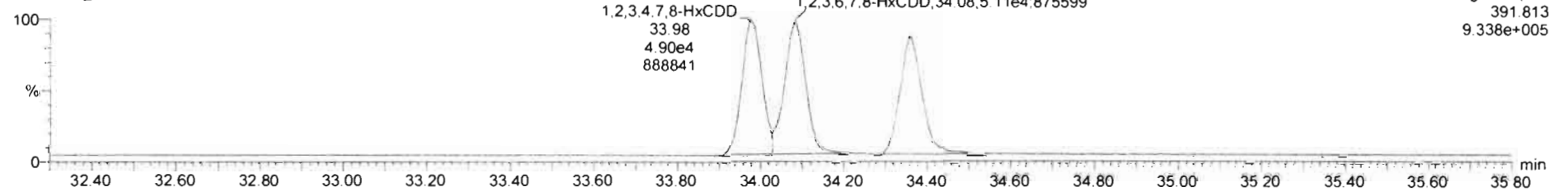
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1,2,3,4,7,8-HxCDD

200131R1_3

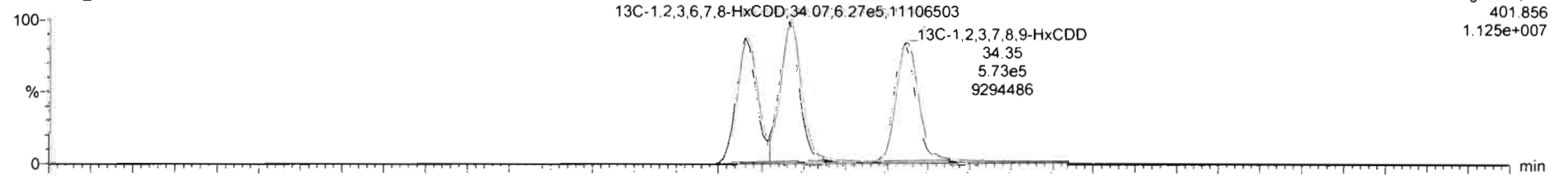


200131R1_3

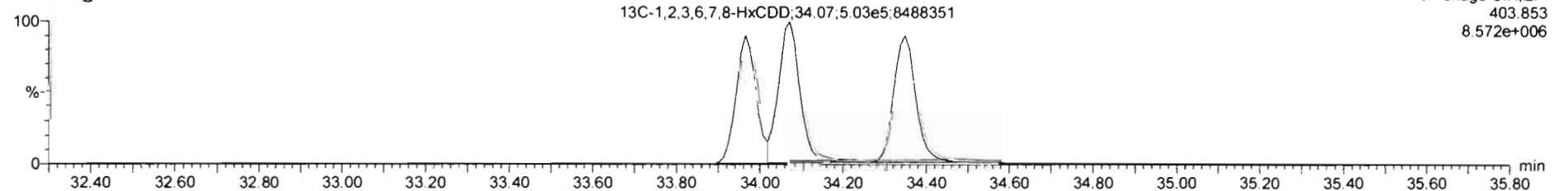


13C-1,2,3,4,7,8-HxCDD

200131R1_3



200131R1_3



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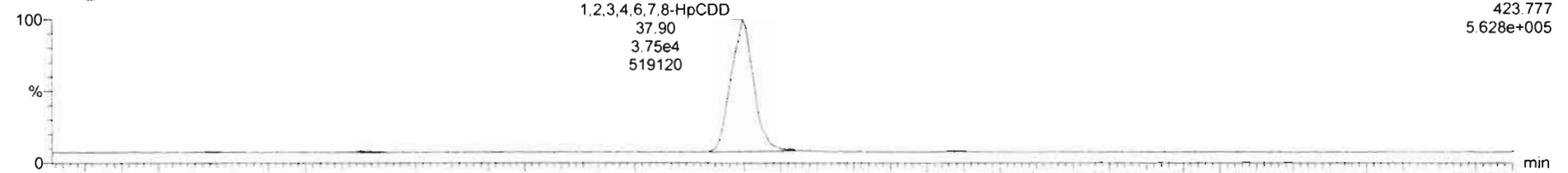
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

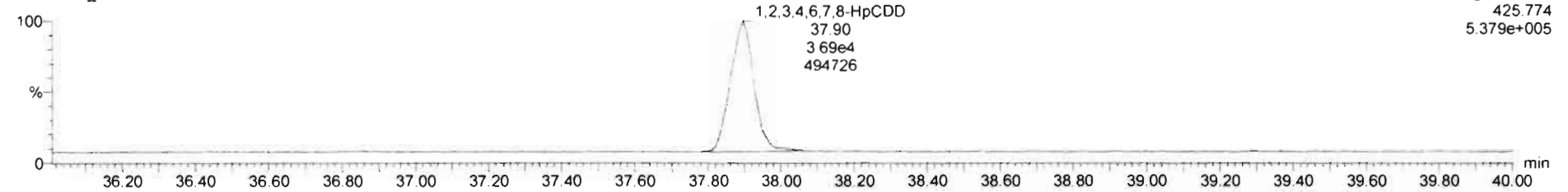
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1,2,3,4,6,7,8-HpCDD

200131R1_3

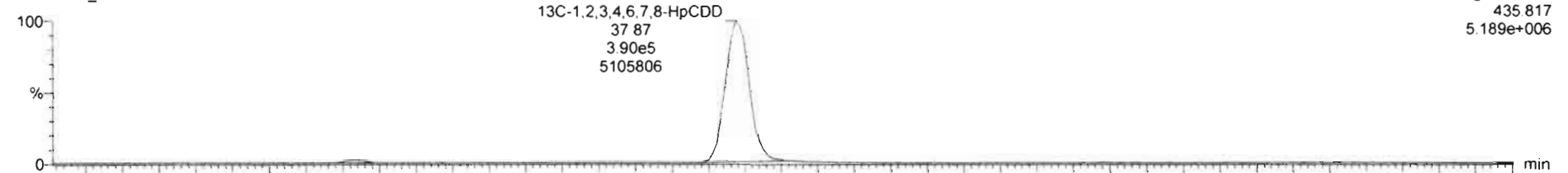


200131R1_3

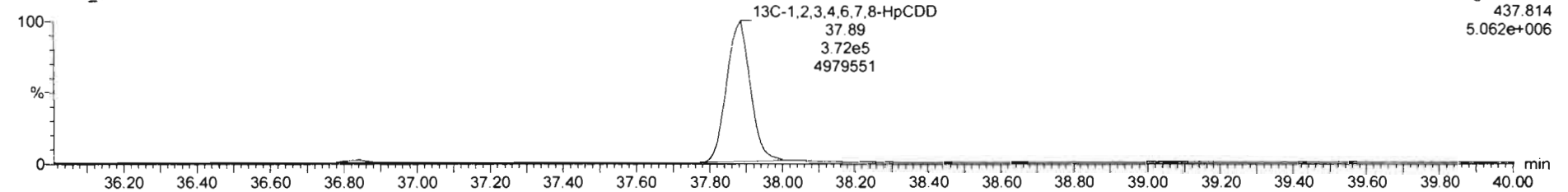


13C-1,2,3,4,6,7,8-HpCDD

200131R1_3



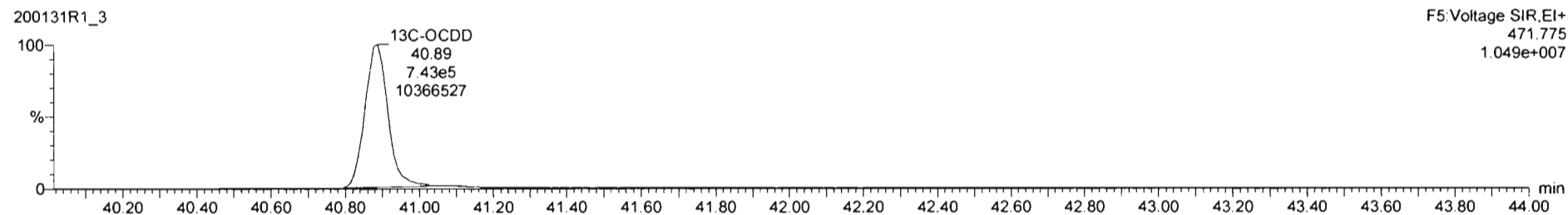
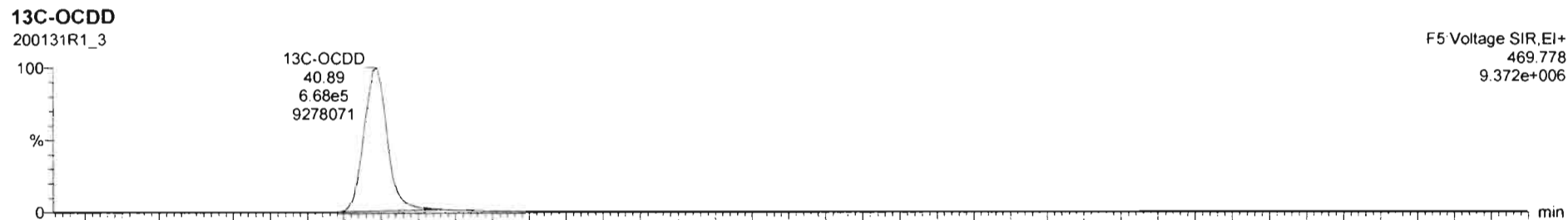
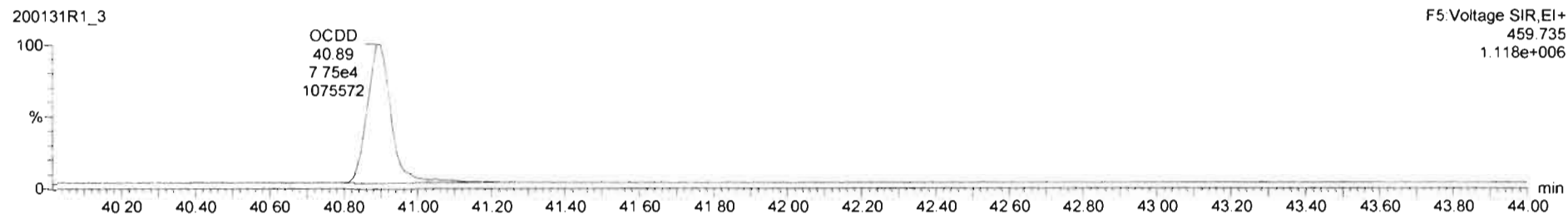
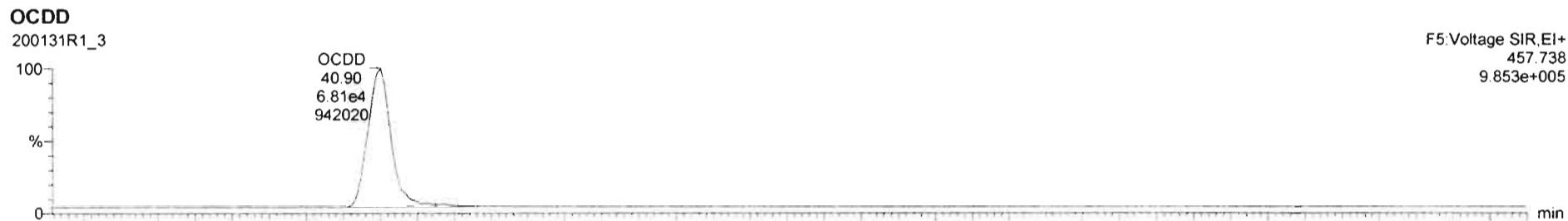
200131R1_3



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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



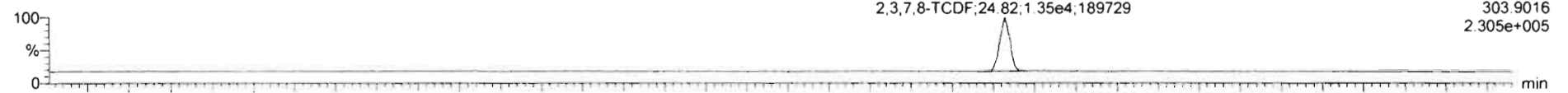
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Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

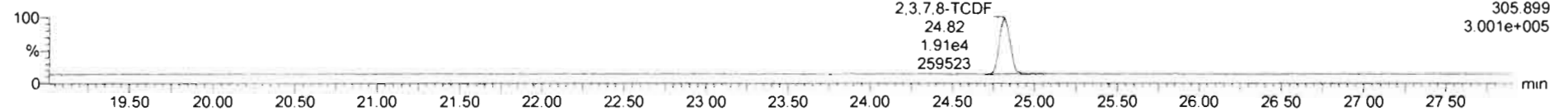
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2,3,7,8-TCDF

200131R1_3

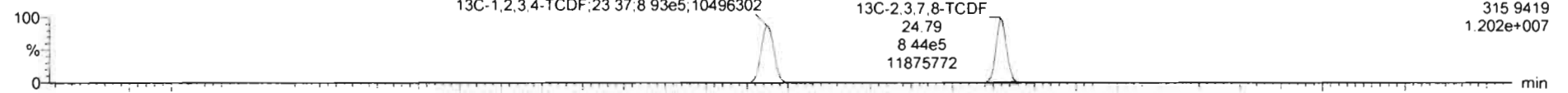


200131R1_3

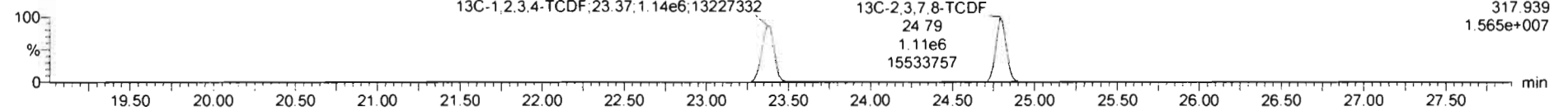


13C-2,3,7,8-TCDF

200131R1_3

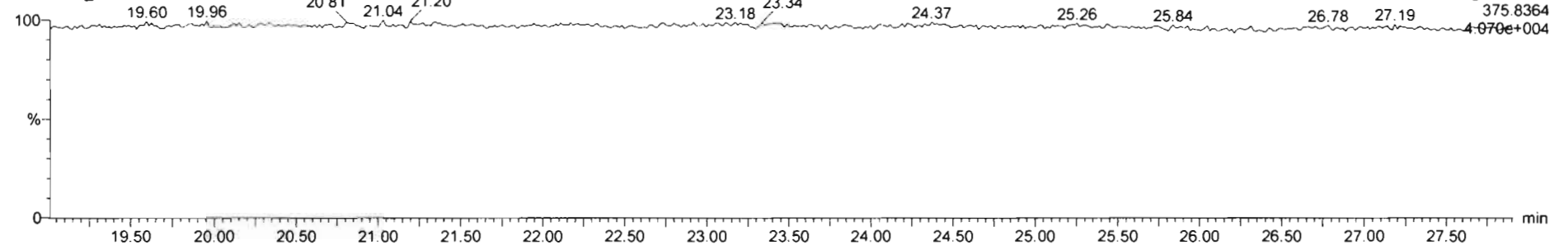


200131R1_3



DPE1

200131R1_3



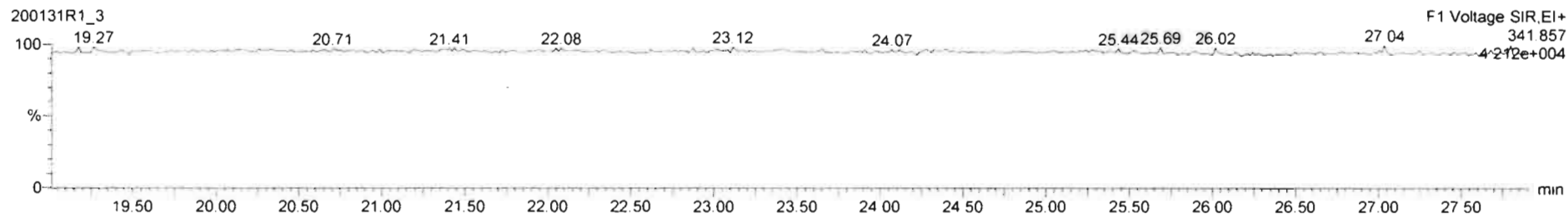
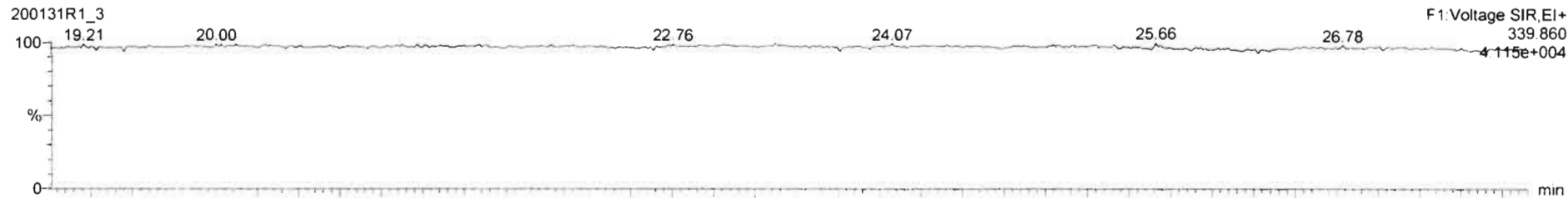
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

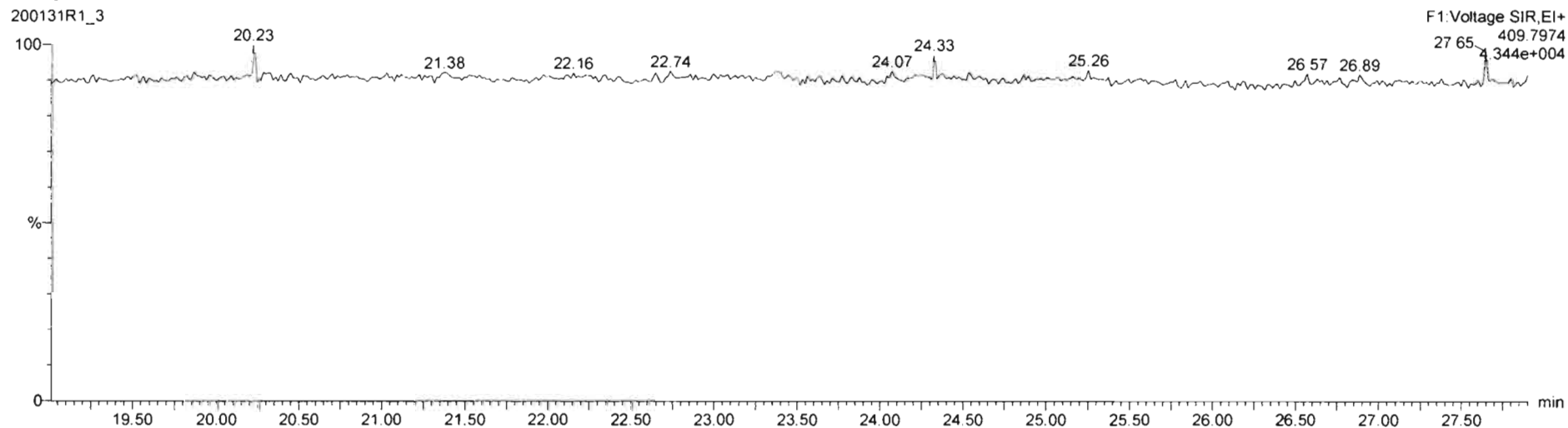
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

1st Func. Penta-Furans



DPE6



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

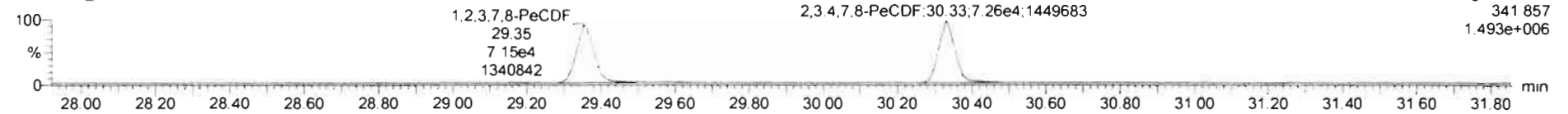
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1,2,3,7,8-PeCDF

200131R1_3

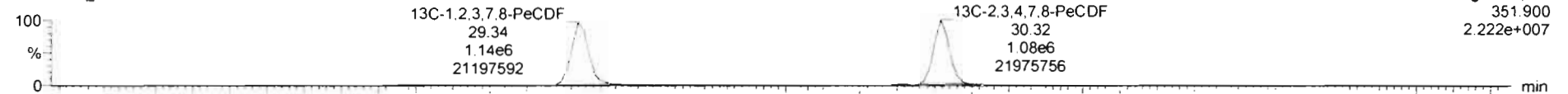


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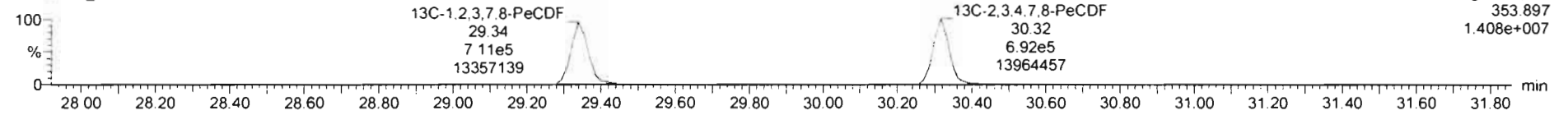


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200131R1_3

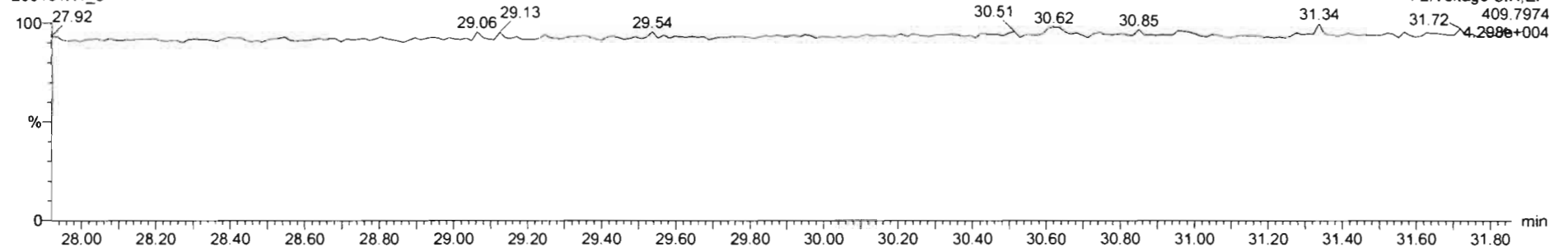


200131R1_3



DPE2

200131R1_3



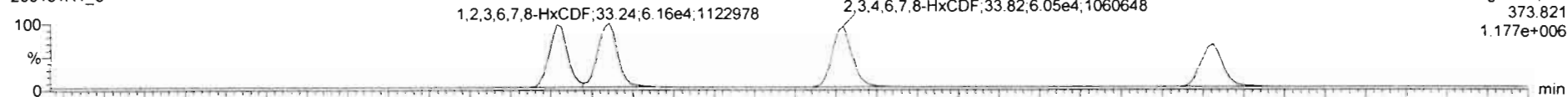
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Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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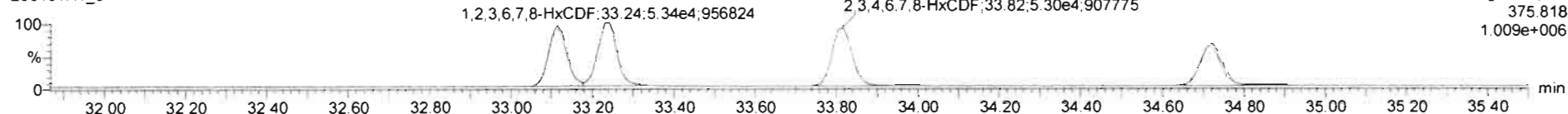
1,2,3,4,7,8-HxCDF

200131R1_3



F3: Voltage SIR, EI+
373.821
1.177e+006

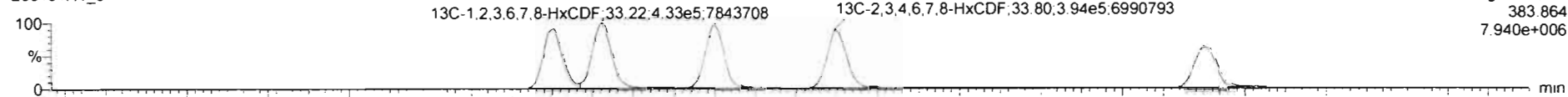
200131R1_3



F3: Voltage SIR, EI+
375.818
1.009e+006

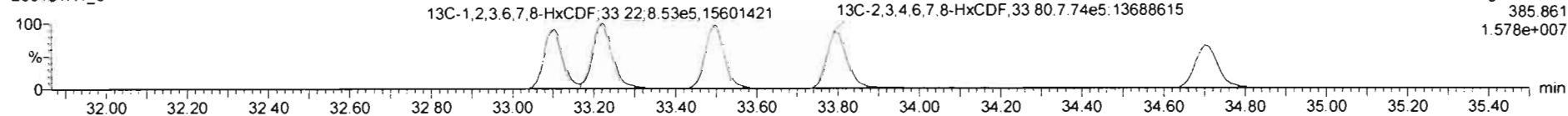
13C-1,2,3,4,7,8-HxCDF

200131R1_3



F3: Voltage SIR, EI+
383.864
7.940e+006

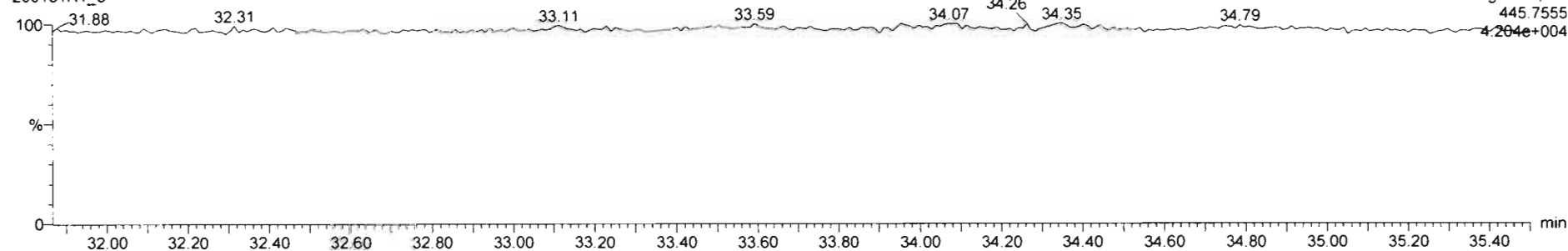
200131R1_3



F3: Voltage SIR, EI+
385.861
1.578e+007

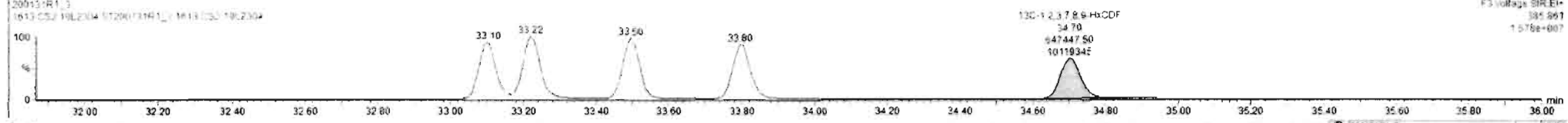
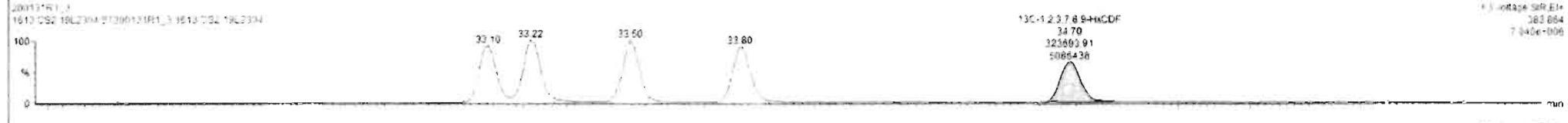
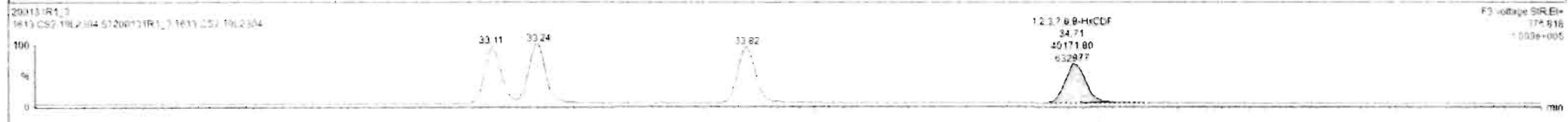
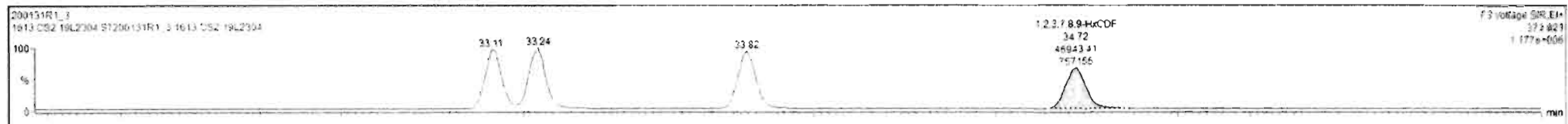
DPE3

200131R1_3



F3: Voltage SIR, EI+
445.7555
4.204e+004

#	Name	RT	RA	ym	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	25.70	0.799	NO	3.0620e4	1.4370e6	2.000	5.7	4.90	0.968	0.0484
2	1,2,3,7,8-PeCDD	30.64	0.608	NO	1.2029e5	1.1415e6	10.000	6.0	6.03	0.975	0.0588
3	1,2,3,4,7,8-HxCDD	33.98	1.228	NO	1.0912e5	9.6882e5	10.000	5.2	4.11	1.07	0.0440
4	1,2,3,6,7,8-HxCDD	34.08	1.206	NO	1.1280e5	1.1308e6	10.000	8.3	7.68	0.921	0.0708
5	1,2,3,7,8,9-HxCDD	34.36	1.184	NO	1.0307e5	1.0396e6	10.000	8.0	6.46	0.918	0.0596
6	1,2,3,4,6,7,8-HpCDD	37.90	1.018	NO	7.4414e4	7.8217e5	10.000	5.8	5.55	0.923	0.0512
7	OCDD	40.90	0.879	NO	1.4560e5	1.4104e6	20.000	5.0	5.50	0.983	0.0541
8	2,3,7,8-TCDF	24.82	0.707	NO	3.2531e4	1.9509e6	2.000	4.0	6.54	0.802	0.0525
9	1,2,3,7,8-PeCDF	29.35	1.552	NO	1.6249e5	1.8540e6	10.000	6.5	6.14	0.907	0.0557
10	1,2,3,4,7,8-PeCDF	30.33	1.519	NO	1.6283e5	1.7707e6	10.000	8.5	7.47	0.952	0.0711
11	1,2,3,4,7,8-HxCDF	33.11	1.183	NO	1.0486e5	1.1422e6	10.000	6.2	5.36	0.864	0.0463
12	1,2,3,6,7,8-HxCDF	33.24	1.154	NO	1.1497e5	1.2659e6	10.000	5.6	6.67	0.647	0.0565
13	2,3,4,6,7,8-HxCDF	33.82	1.142	NO	1.1351e5	1.1674e6	10.000	6.3	5.93	0.896	0.0533
14	1,2,3,7,8,9-HxCDF	34.72	1.169	NO	8.7115e4	9.7114e5	10.000	4.6	6.18	0.850	0.0530
15	1,2,3,4,6,7,8-HpCDF	36.46	0.960	NO	7.2133e4	8.0026e5	10.000	5.9	5.39	0.851	0.0459
16	1,2,3,4,7,8,9-HxCDF	36.49	0.956	NO	5.9129e4	5.8604e5	10.000	6.2	4.99	0.980	0.0469
17	OCDF	41.06	0.868	NO	1.3721e5	1.6139e6	20.000	5.5	5.85	0.806	0.0471



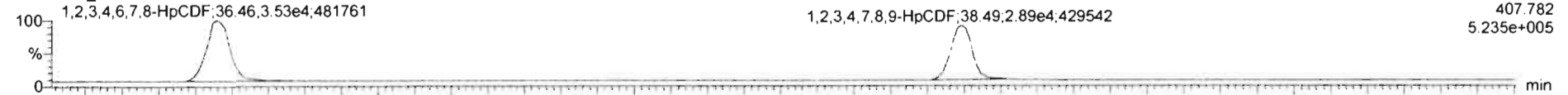
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Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

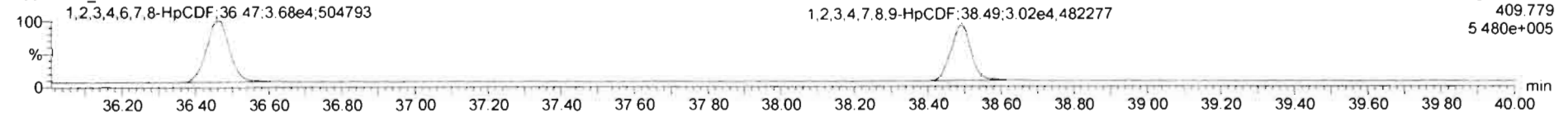
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1,2,3,4,6,7,8-HpCDF

200131R1_3

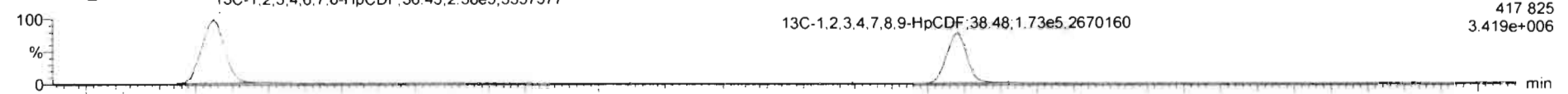


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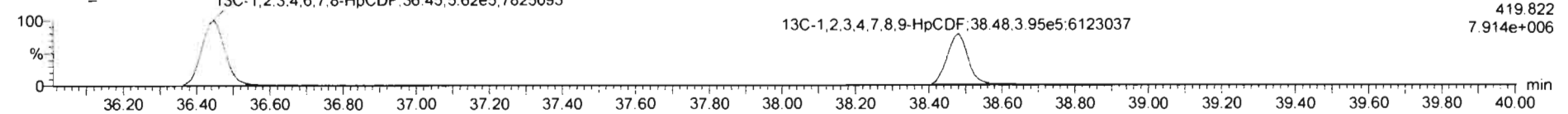


13C-1,2,3,4,6,7,8-HpCDF

200131R1_3

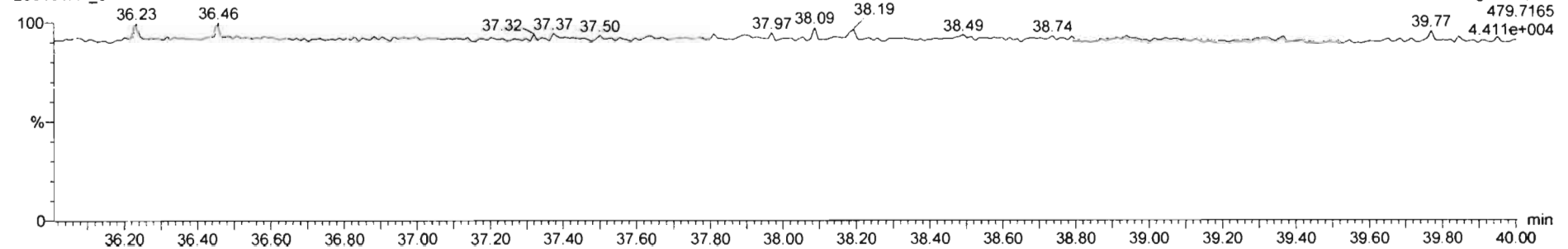


200131R1_3



DPE4

200131R1_3



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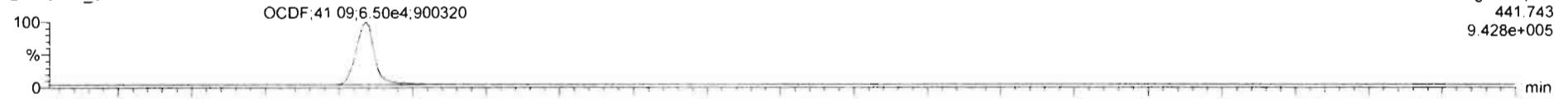
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

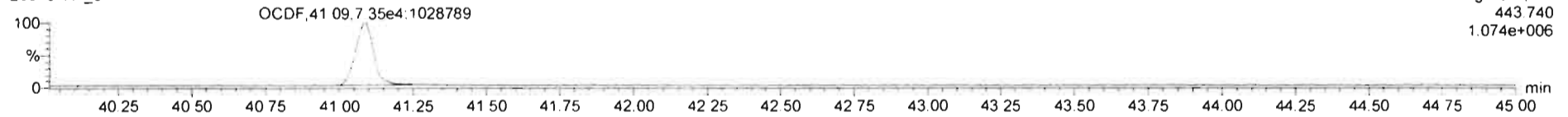
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OCDF

200131R1_3

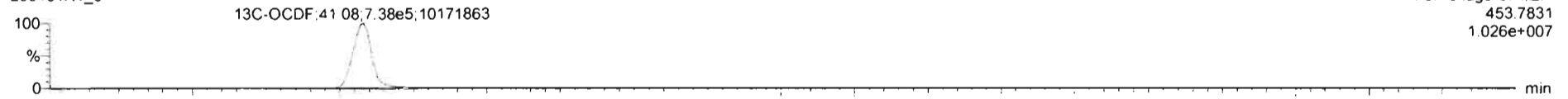


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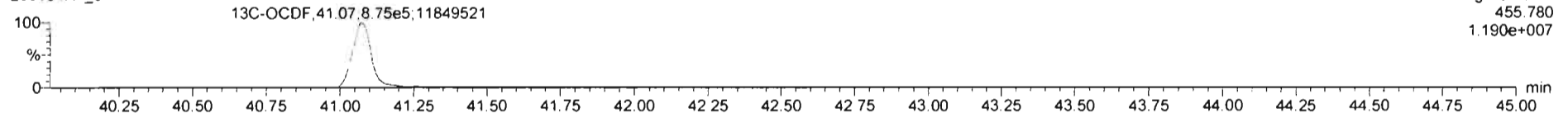


13C-OCDF

200131R1_3

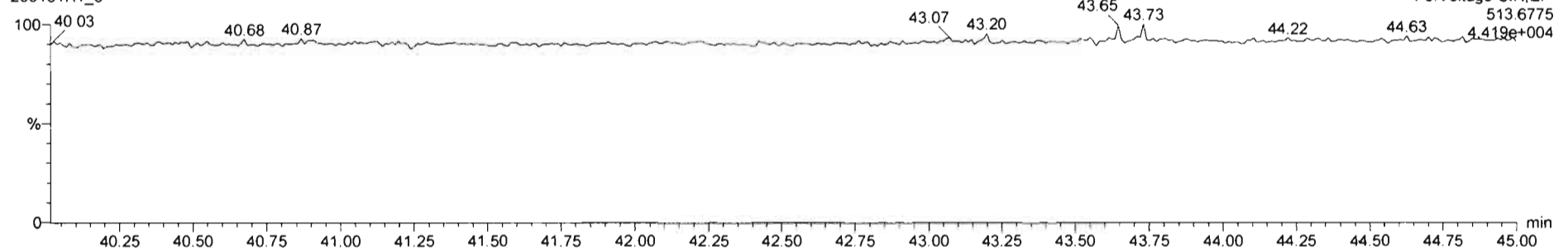


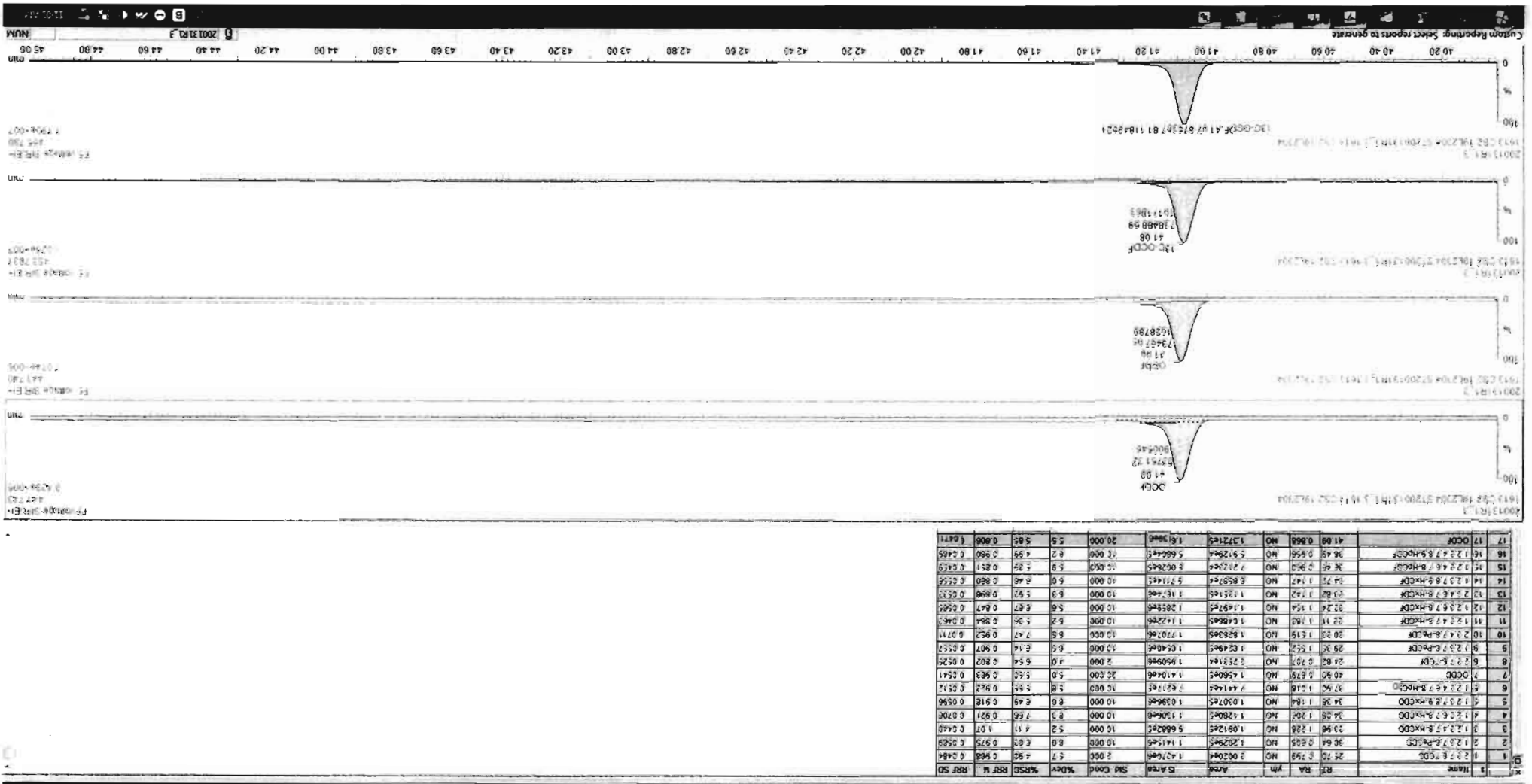
200131R1_3



DPE5

200131R1_3





Line	Name	RT	PA	Yth	Area	Std Cond	%RSD	RRF H	RRF SD
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2	2.223 E-SM-CDD	36.94	0.855	NO	1.20295	1.14155	10.00	1.83	0.975
3	3.223 E-SM-CDD	33.94	1.228	NO	1.09124	5.68825	10.00	5.2	1.07
4	4.223 E-SM-CDD	34.08	1.205	NO	1.12804	1.13068	10.00	8.3	0.921
5	5.223 E-SM-CDD	34.36	1.184	NO	1.03075	1.03964	10.00	6.6	0.918
6	6.223 E-SM-CDD	37.90	1.018	NO	7.44144	2.62174	10.00	5.6	0.932
7	7.223 E-SM-CDD	40.90	0.879	NO	1.55695	1.41046	20.00	5.0	0.983
8	8.223 E-GC	24.00	0.707	NO	3.25314	1.95094	2.000	4.0	0.807
9	9.223 E-SM-CDD	29.26	1.552	NO	1.62485	1.62485	10.00	6.5	0.907
10	10.223 E-SM-CDD	20.20	1.419	NO	1.62505	1.77076	10.00	6.5	0.952
11	11.223 E-SM-CDD	22.10	1.419	NO	1.62505	1.14226	10.00	6.2	0.964
12	12.223 E-SM-CDD	32.24	1.154	NO	1.14974	1.28585	10.00	5.6	0.847
13	13.223 E-SM-CDD	32.82	1.142	NO	1.13214	1.16746	10.00	6.3	0.898
14	14.223 E-SM-CDD	34.22	1.147	NO	6.65974	5.71144	10.00	6.0	0.860
15	15.223 E-SM-CDD	36.46	0.903	NO	7.21244	6.02845	10.00	5.9	0.851
16	16.223 E-SM-CDD	36.49	0.956	NO	5.91294	5.66443	10.00	6.7	0.900
17	17.223 E-SM-CDD	41.08	0.868	NO	1.37214	1.61964	20.00	5.5	0.806

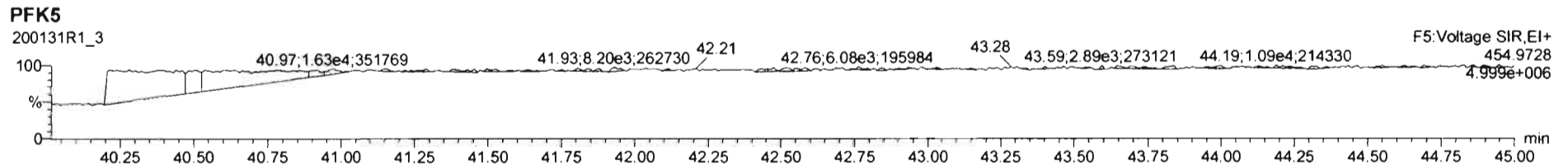
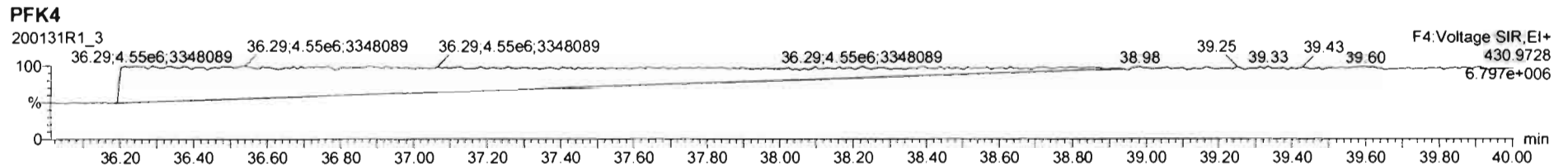
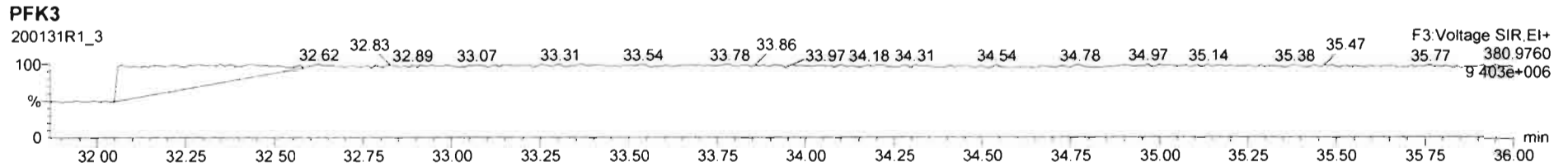
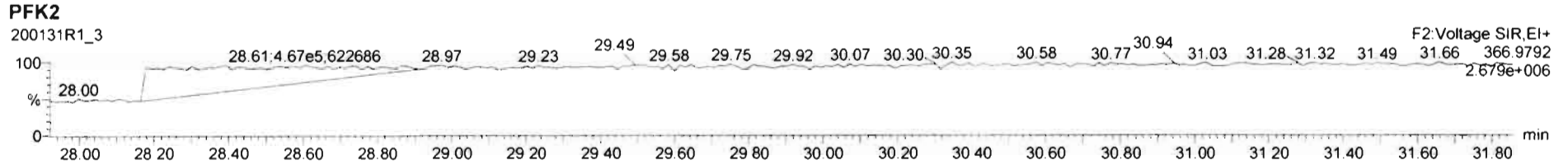
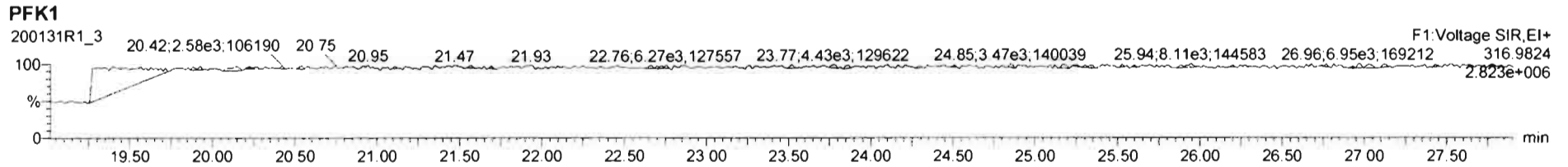
200131R1_1
1613 CS2 19L2304 19L2304 1613 CS2 19L2304
200131R1_2
1613 CS2 19L2304 19L2304 1613 CS2 19L2304
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200131R1_4
1613 CS2 19L2304 19L2304 1613 CS2 19L2304

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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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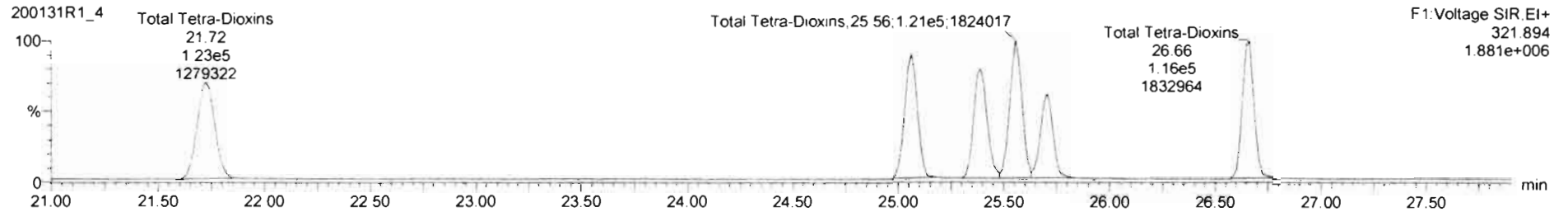
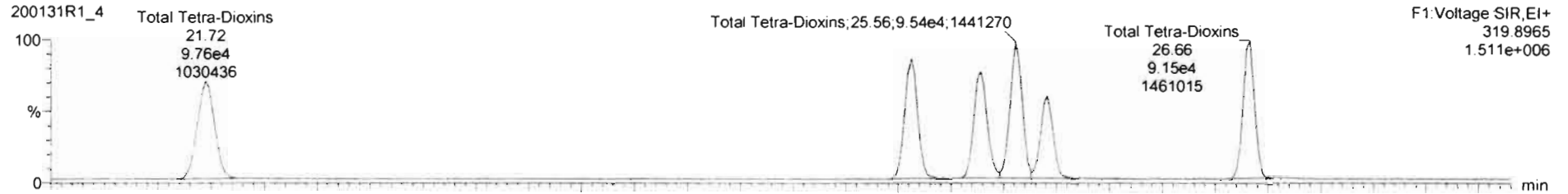


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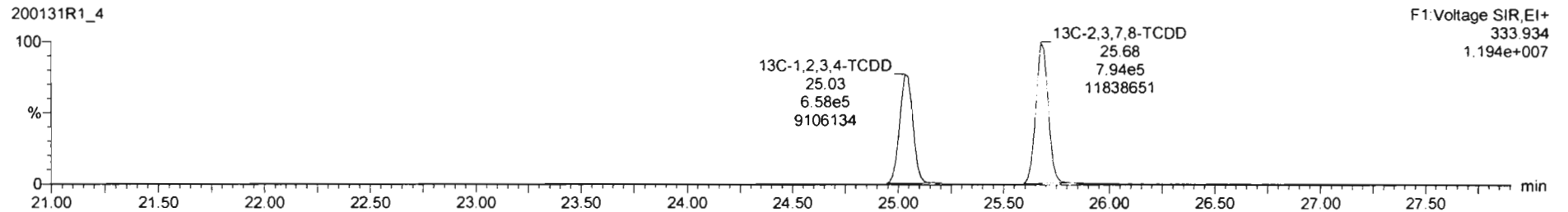
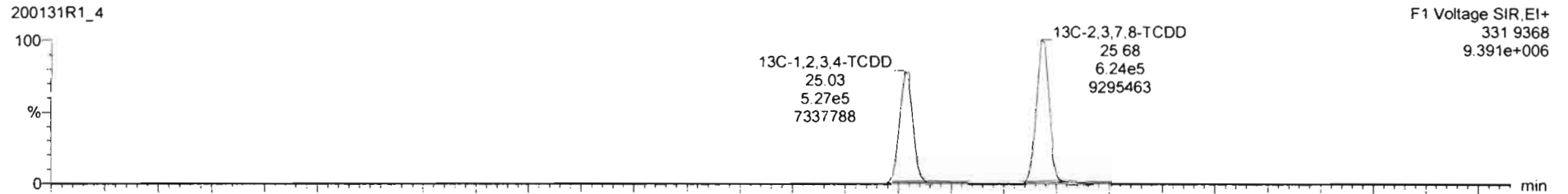
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2,3,7,8-TCDD



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



Dataset: Untitled

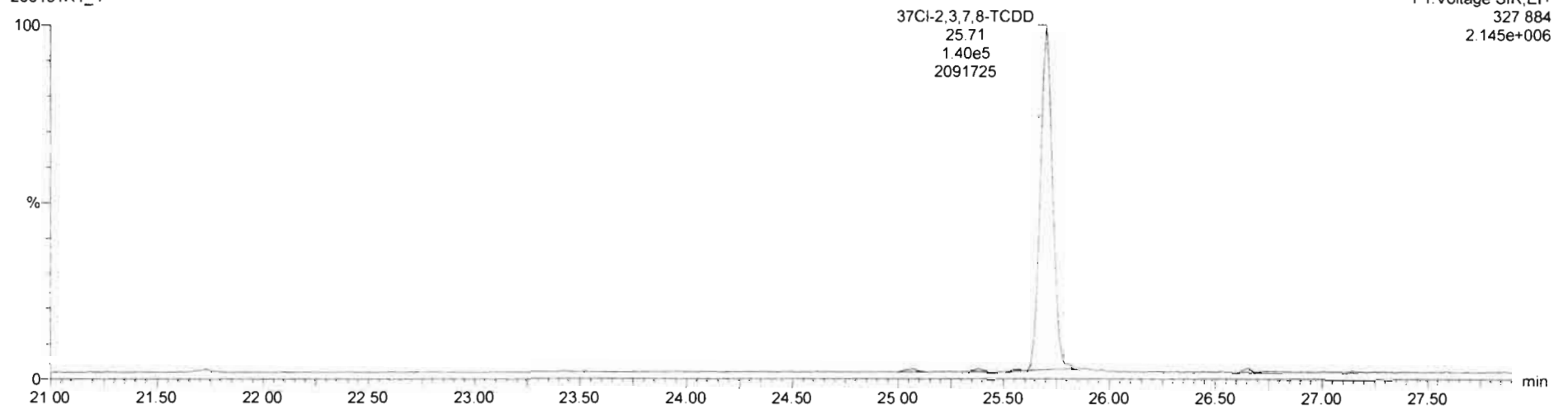
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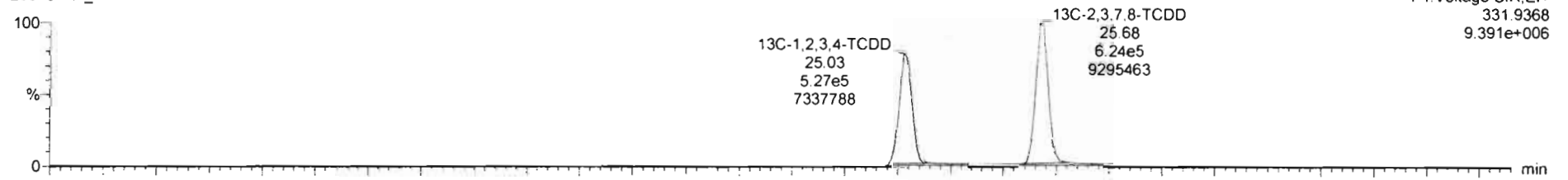
37Cl-2,3,7,8-TCDD

200131R1_4

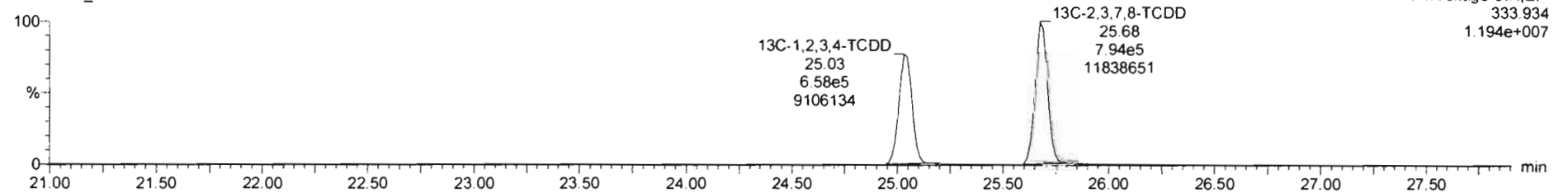


13C-1,2,3,4-TCDD

200131R1_4



200131R1_4

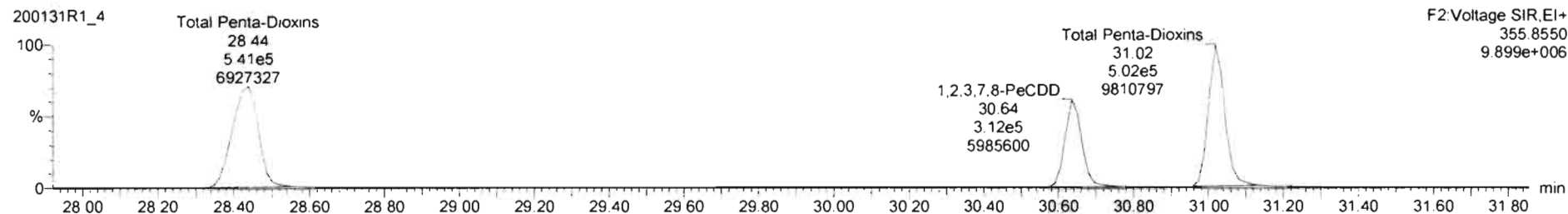
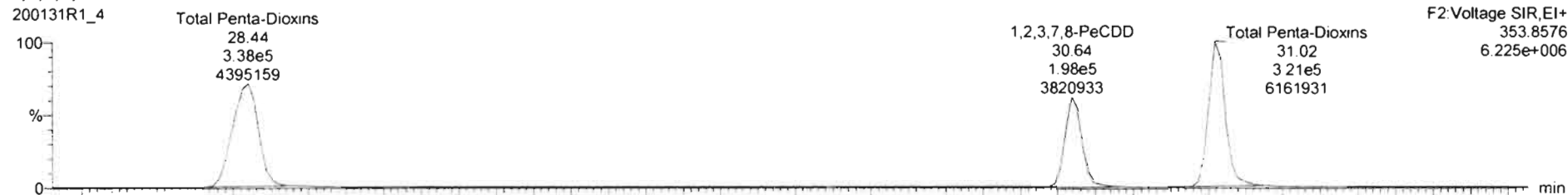


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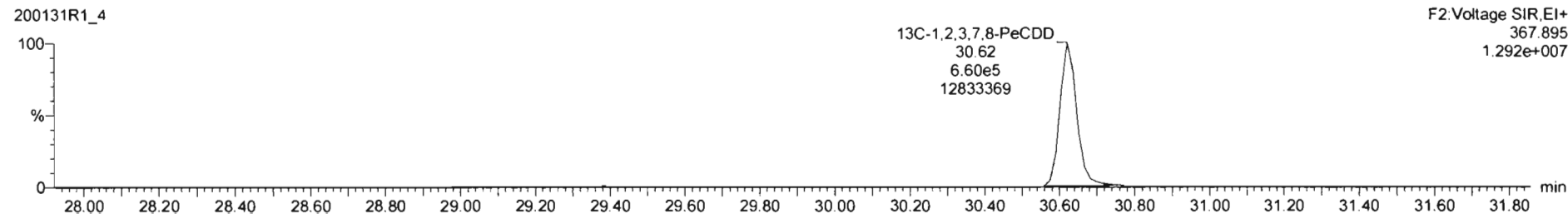
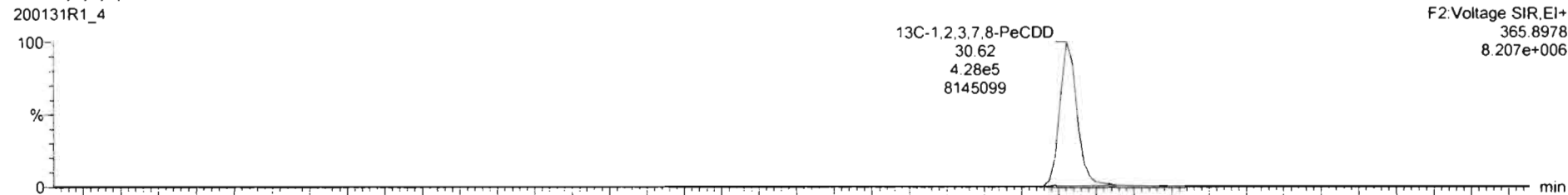
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1,2,3,7,8-PeCDD



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



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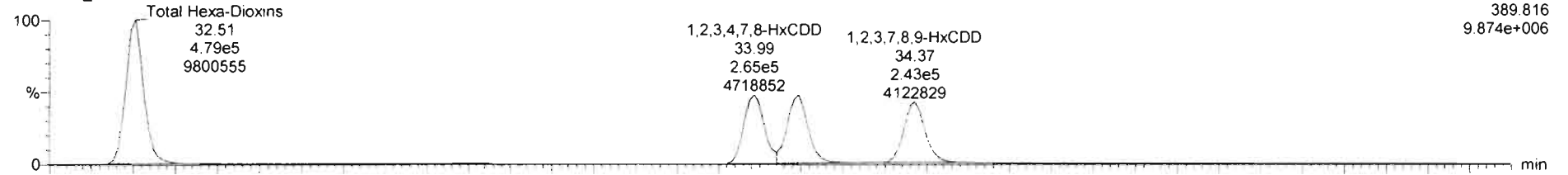
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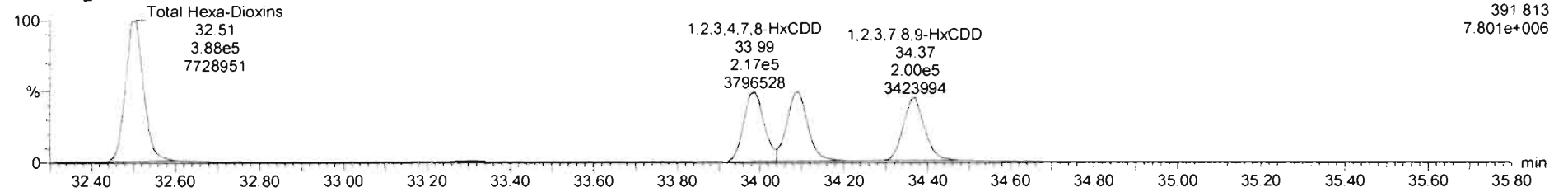
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1,2,3,4,7,8-HxCDD

200131R1_4

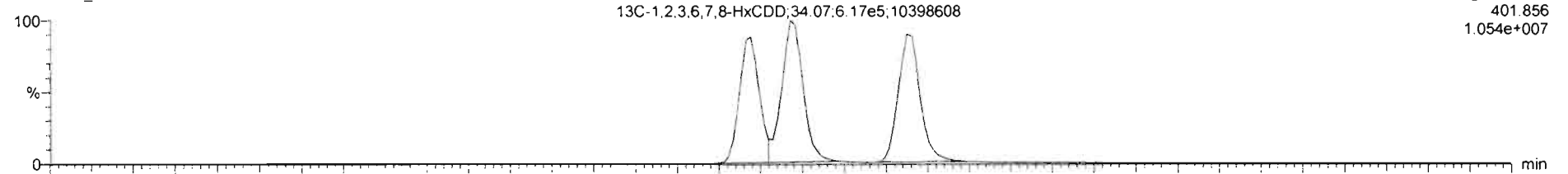


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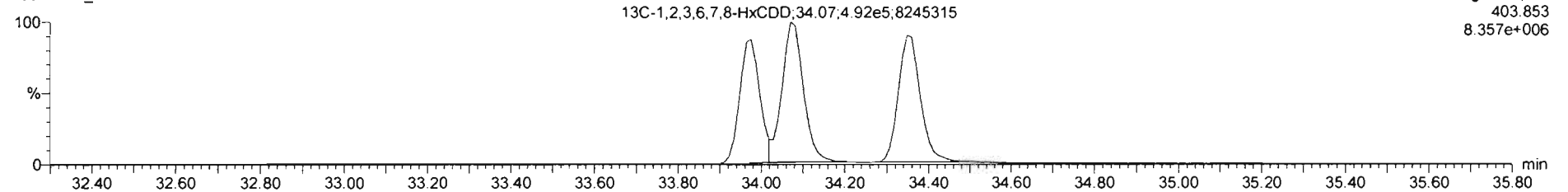


13C-1,2,3,4,7,8-HxCDD

200131R1_4



200131R1_4



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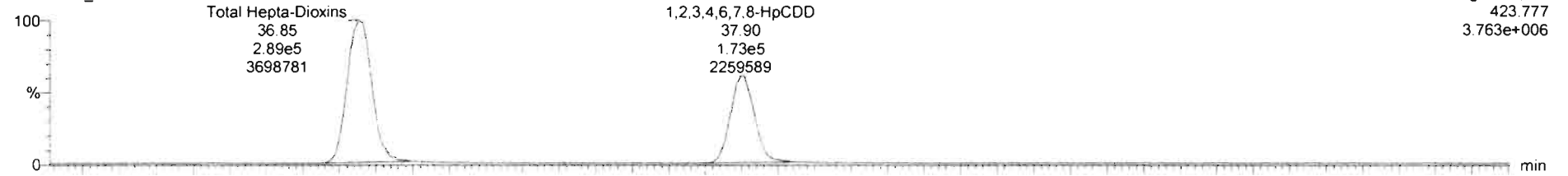
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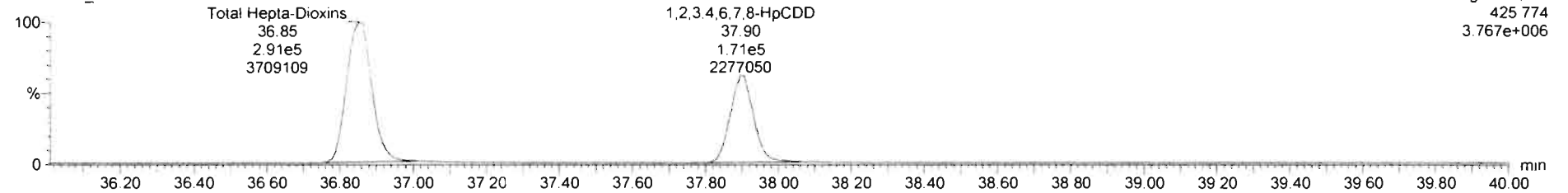
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1,2,3,4,6,7,8-HpCDD

200131R1_4

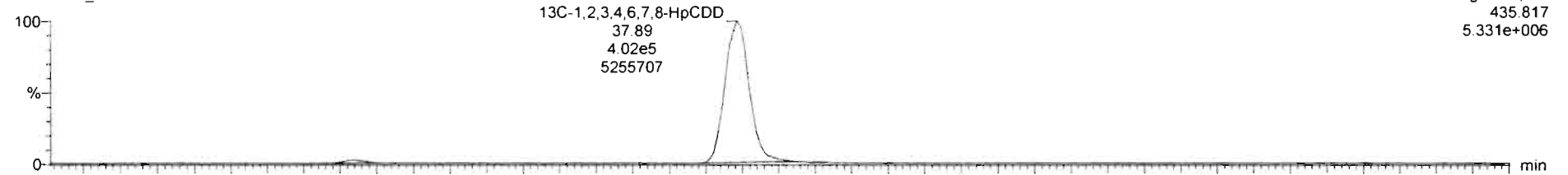


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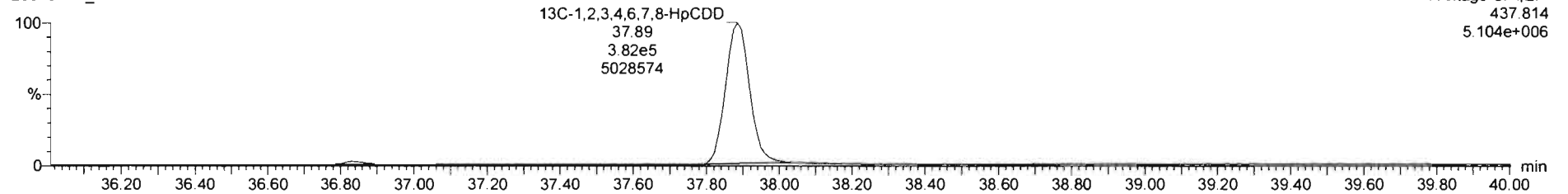


13C-1,2,3,4,6,7,8-HpCDD

200131R1_4



200131R1_4



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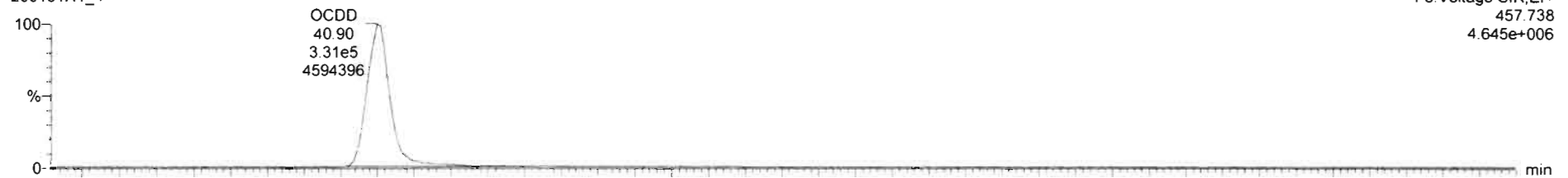
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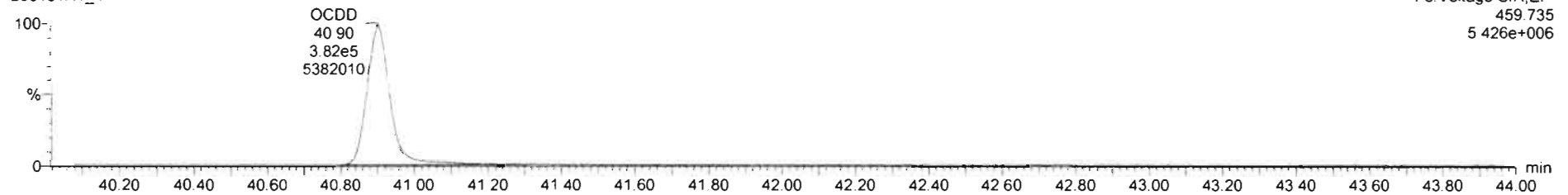
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OCDD

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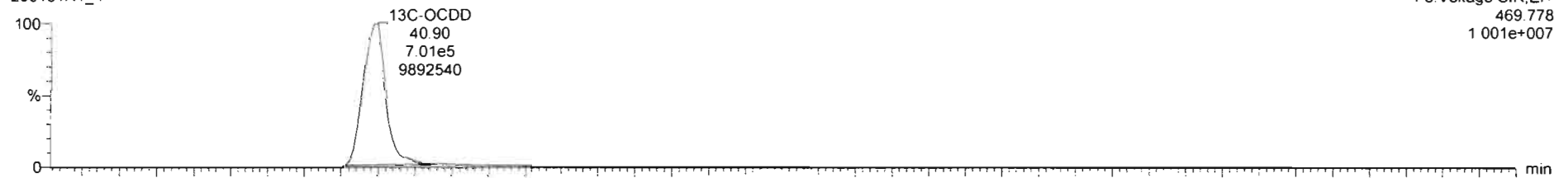


200131R1_4

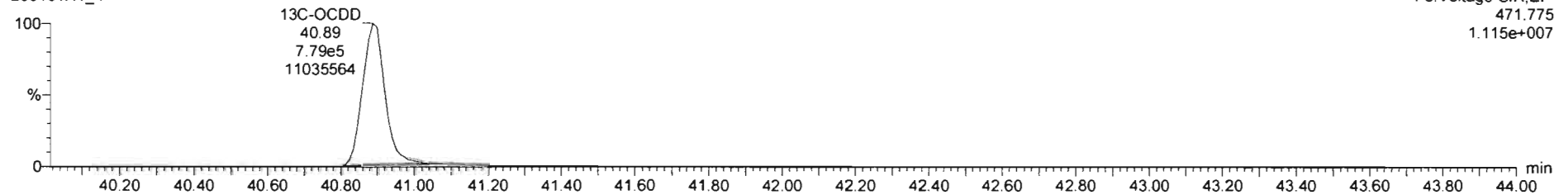


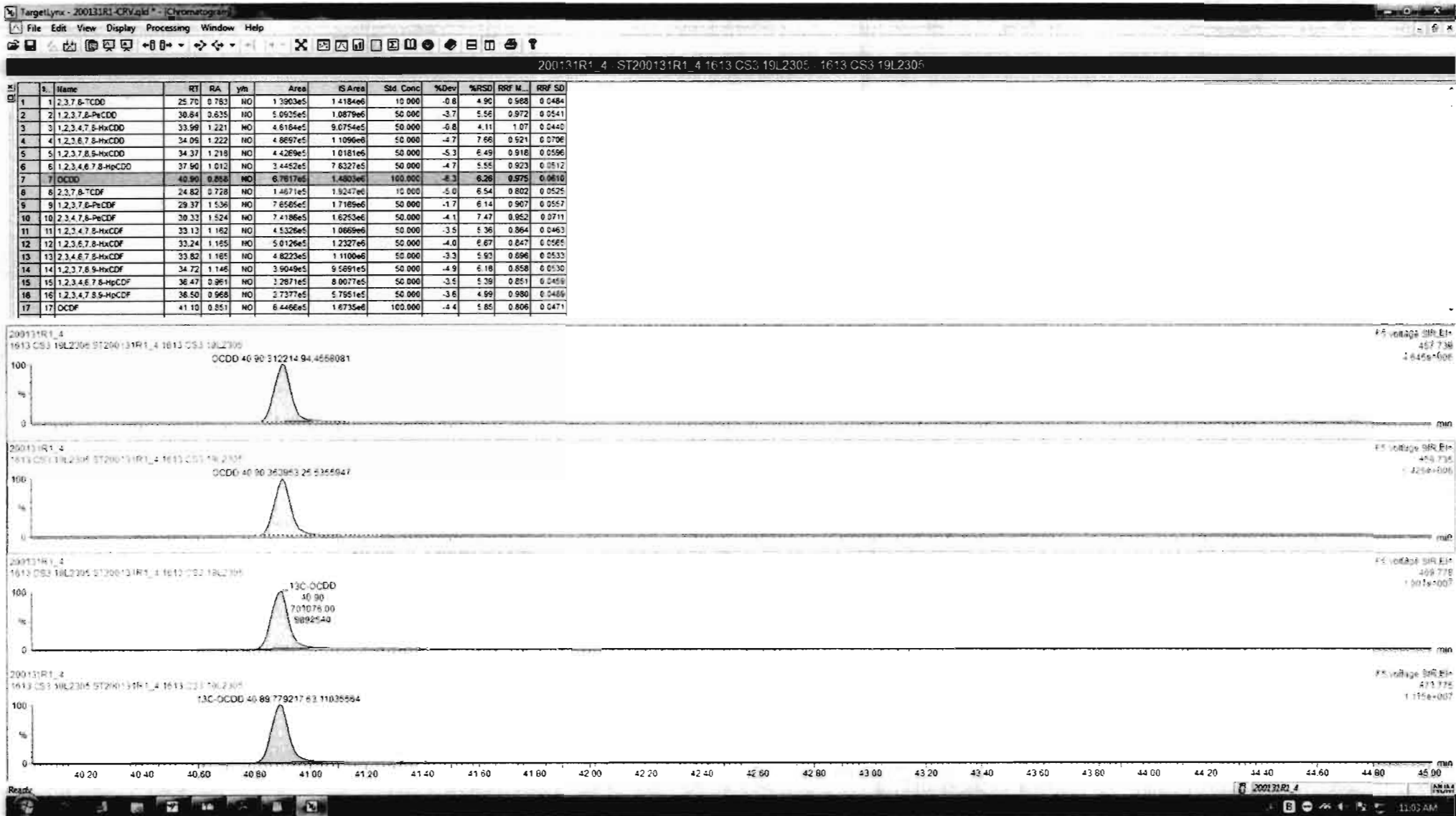
13C-OCDD

200131R1_4



200131R1_4





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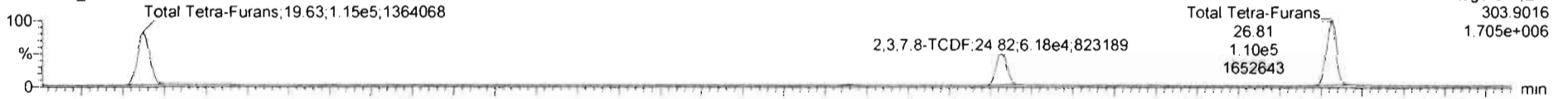
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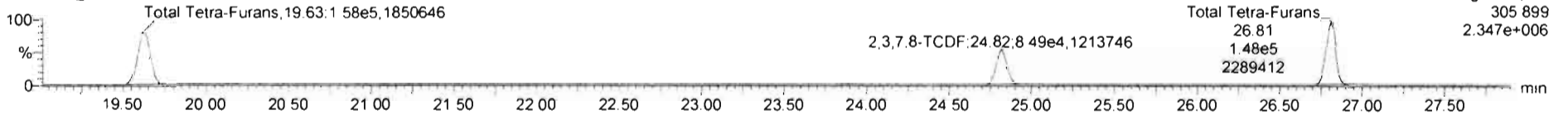
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2,3,7,8-TCDF

200131R1_4

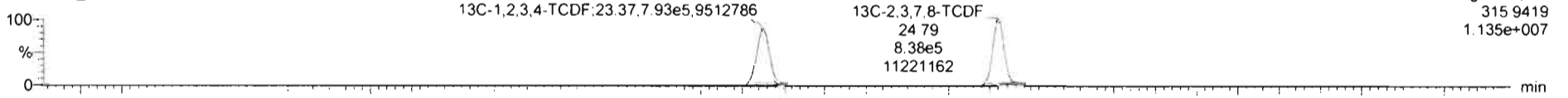


200131R1_4

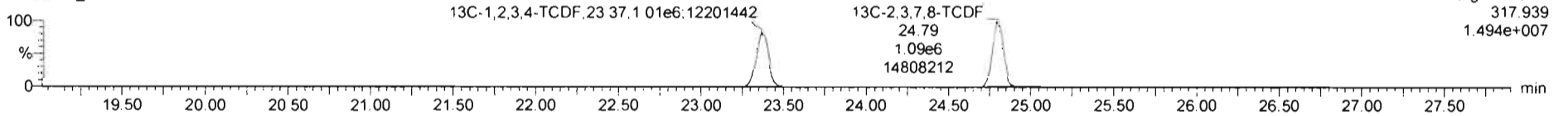


13C-2,3,7,8-TCDF

200131R1_4

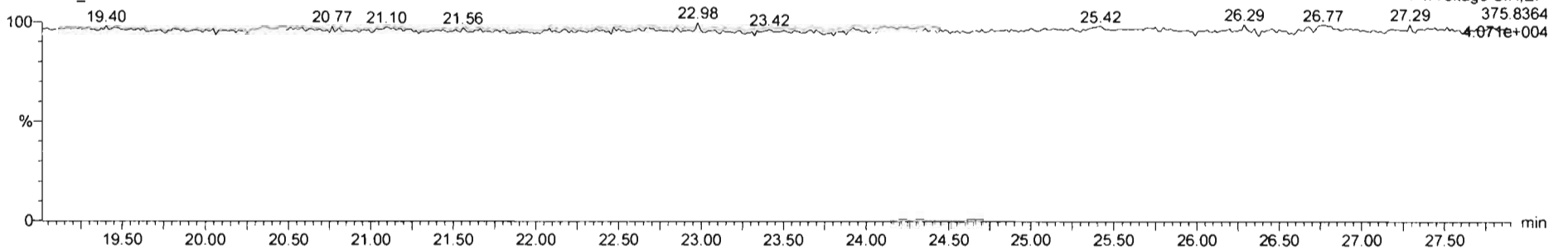


200131R1_4



DPE1

200131R1_4



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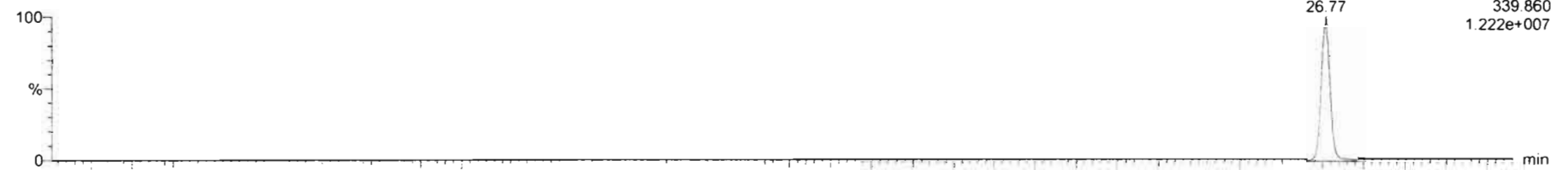
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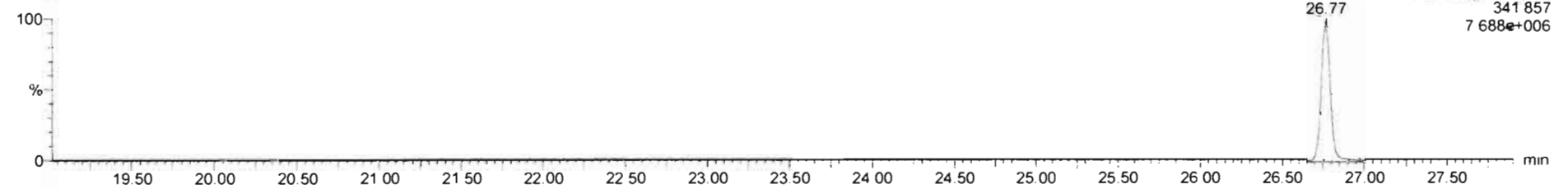
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200131R1_4

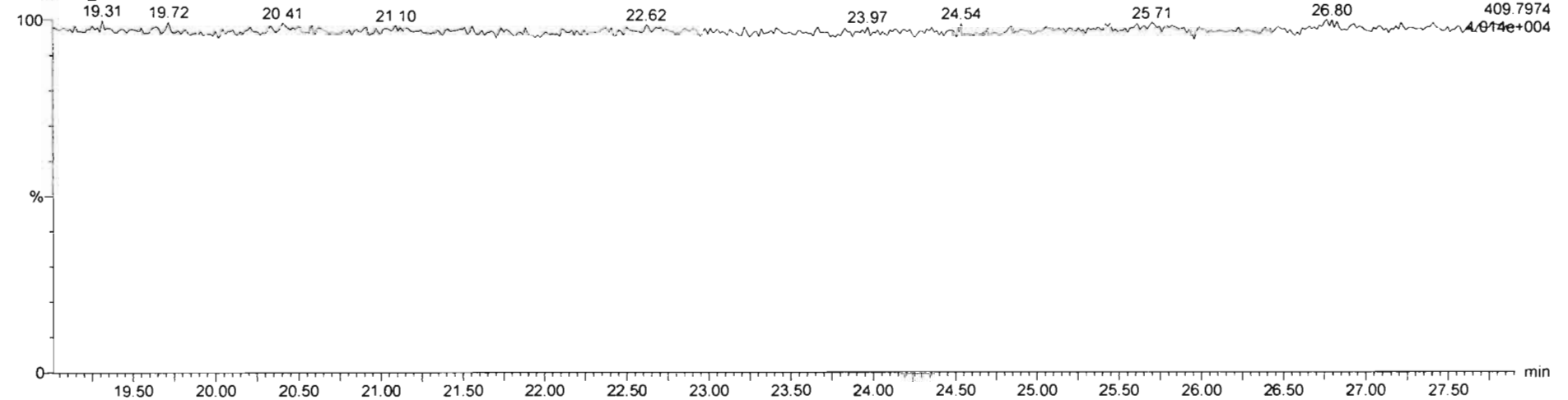


200131R1_4



DPE6

200131R1_4



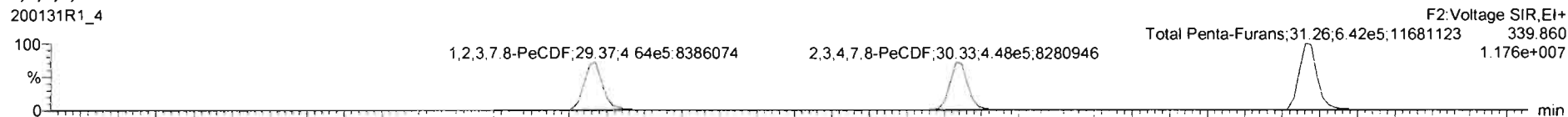
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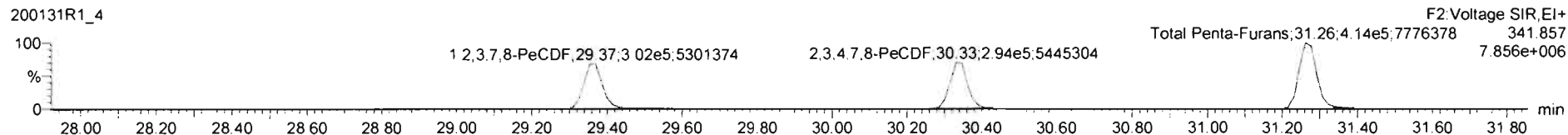
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1,2,3,7,8-PeCDF

200131R1_4

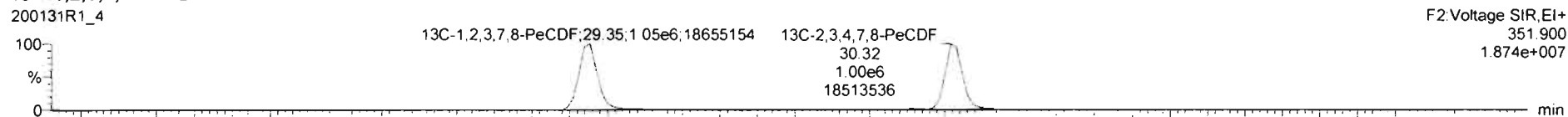


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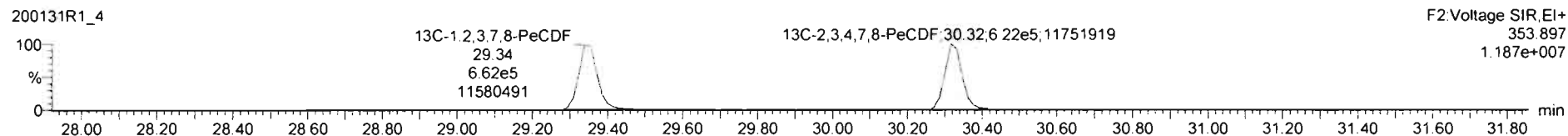


13C-1,2,3,7,8-PeCDF

200131R1_4

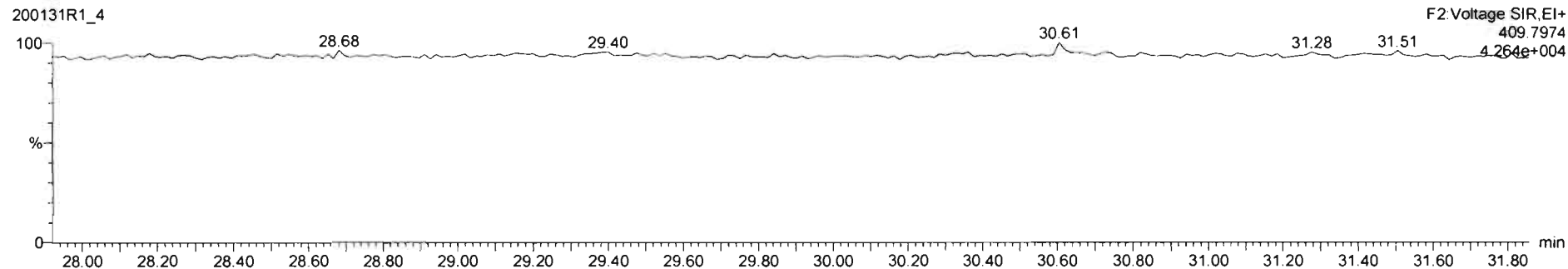


200131R1_4



DPE2

200131R1_4



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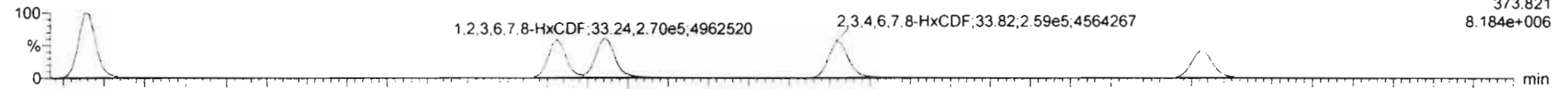
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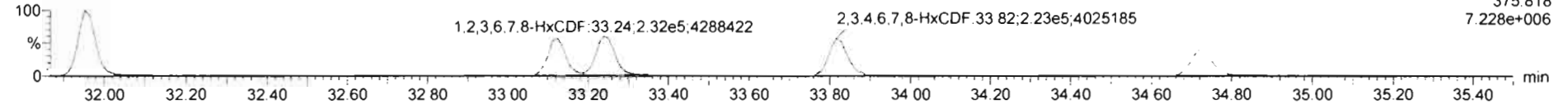
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1,2,3,4,7,8-HxCDF

200131R1_4

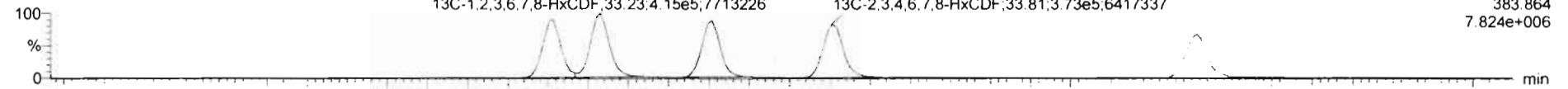


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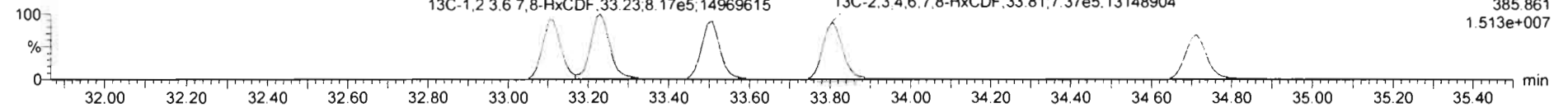


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200131R1_4

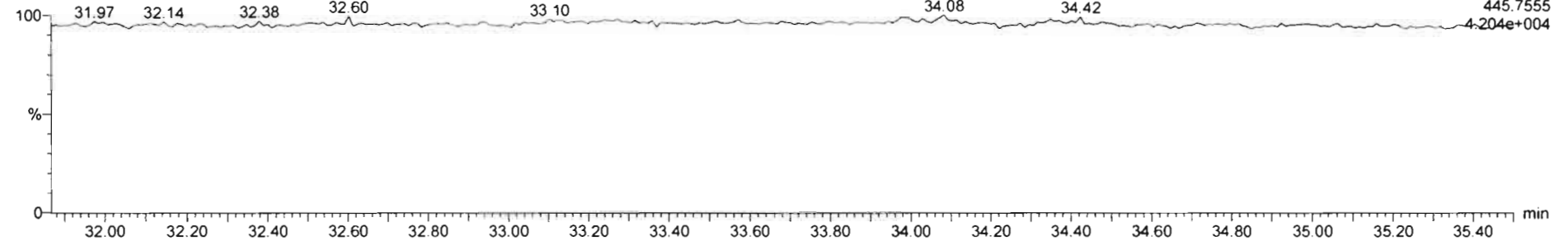


200131R1_4



DPE3

200131R1_4

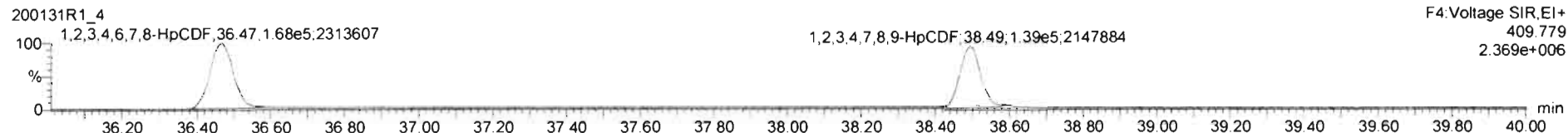
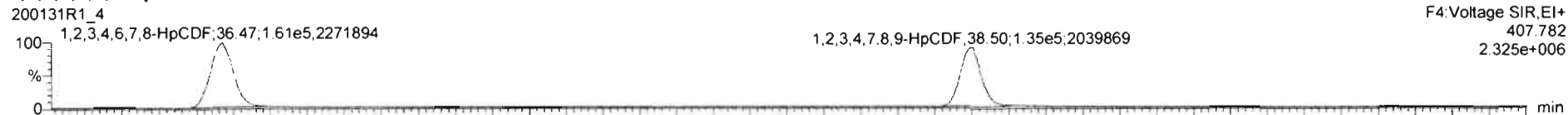


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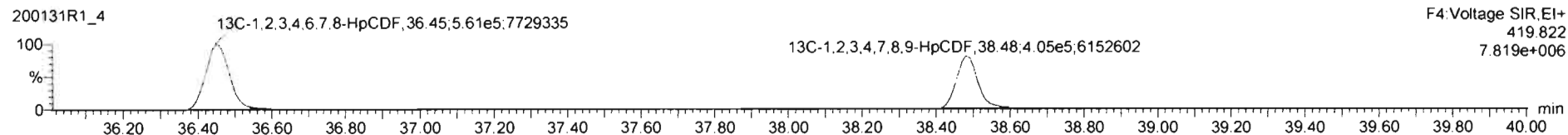
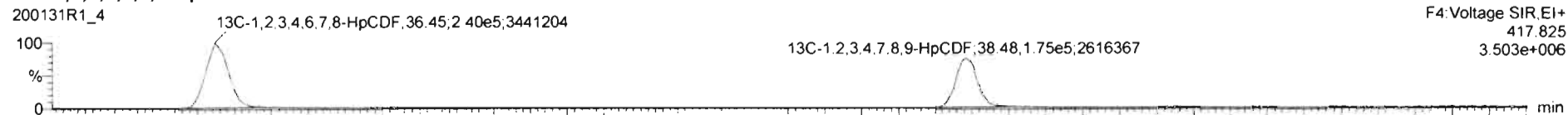
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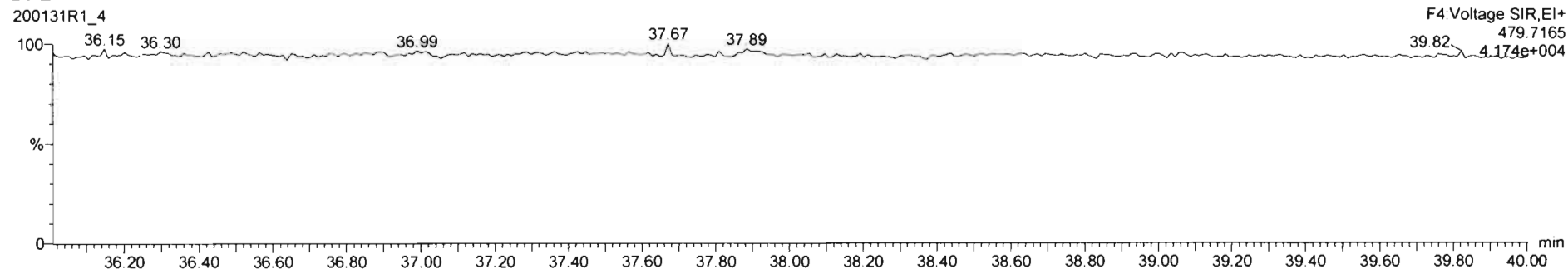
1,2,3,4,6,7,8-HpCDF



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



DPE4

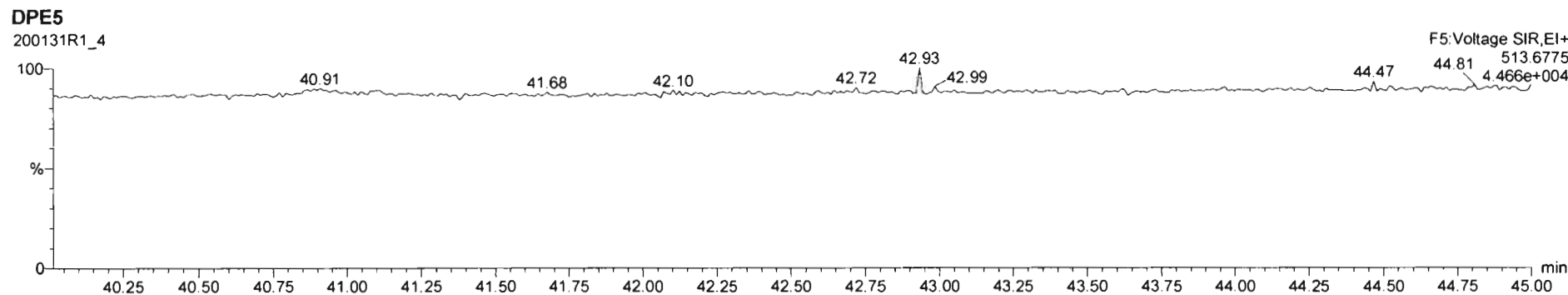
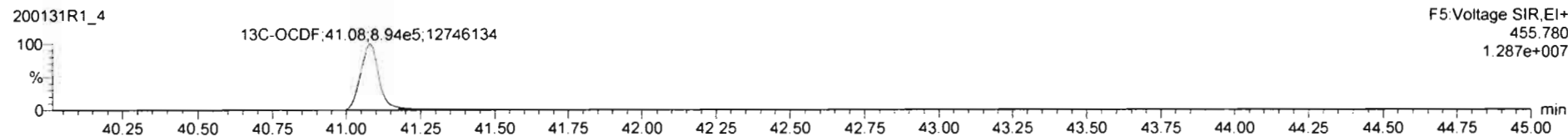
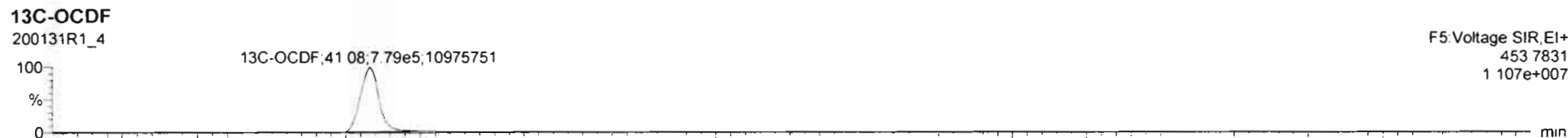
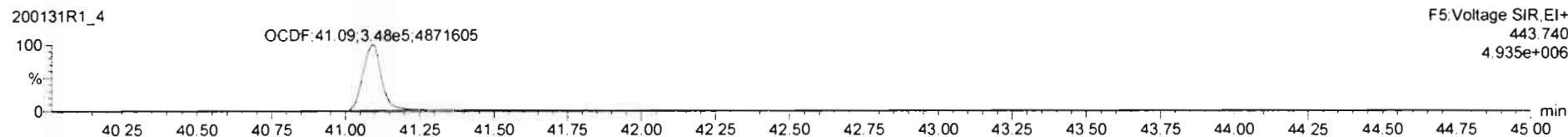
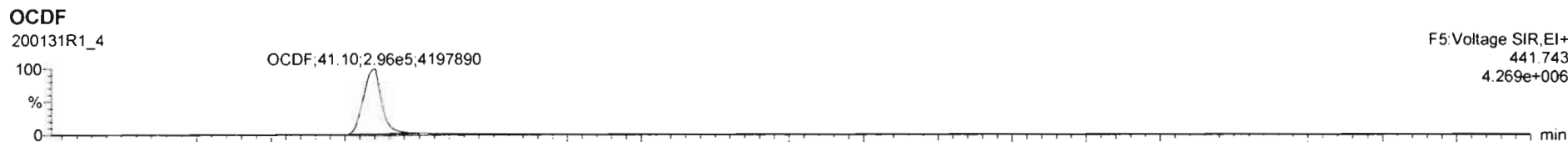


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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

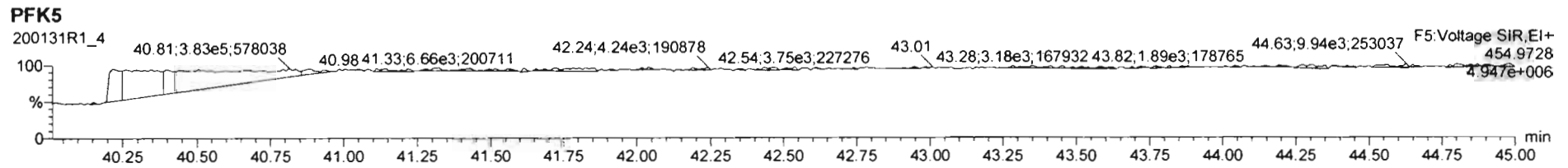
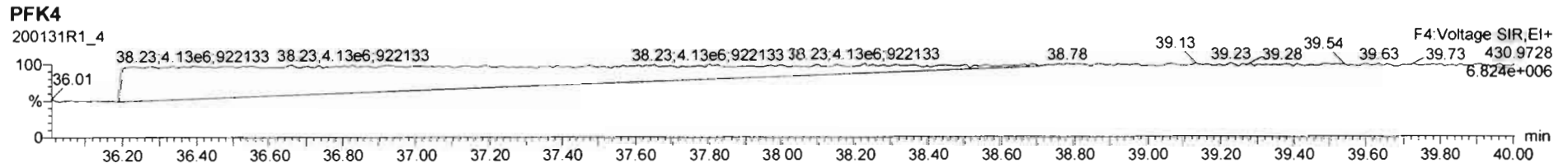
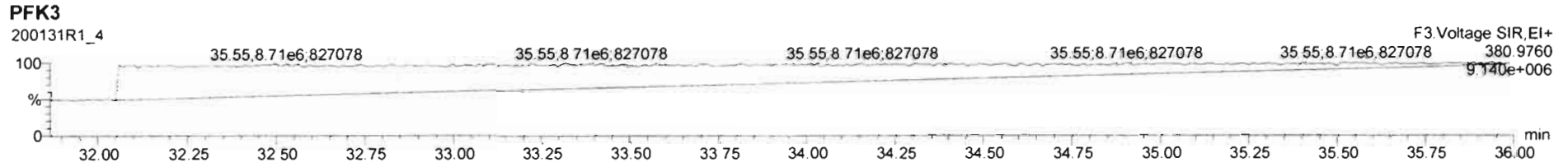
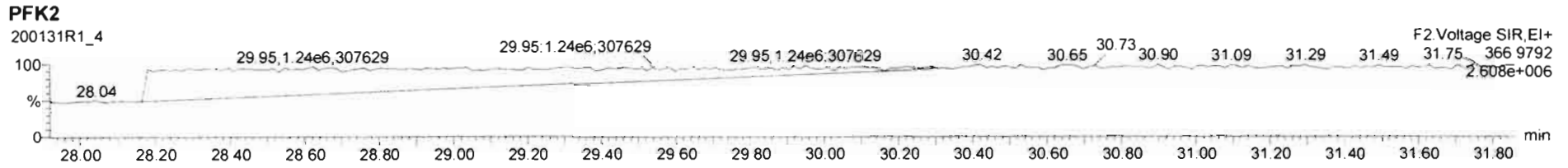
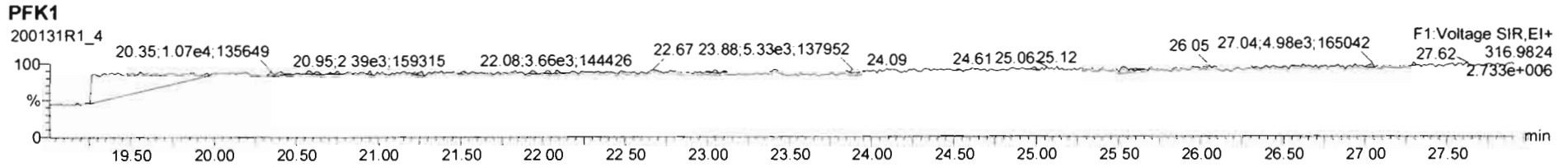


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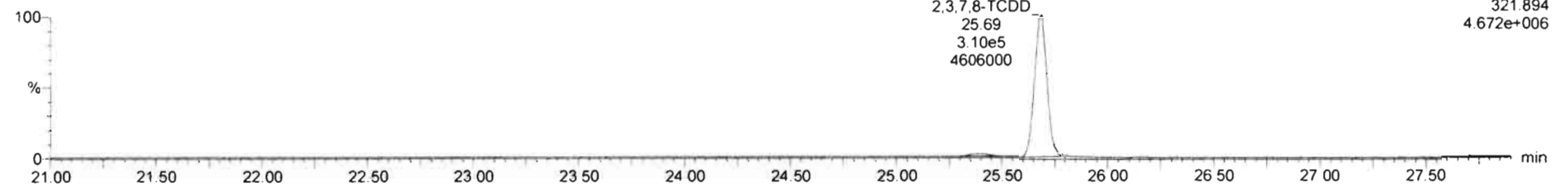
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2,3,7,8-TCDD

200131R1_5

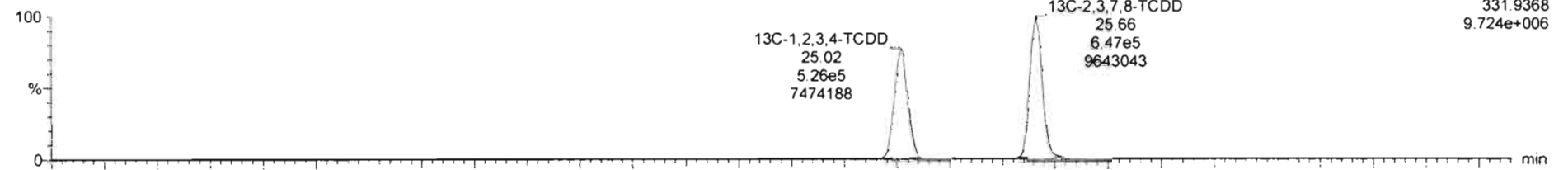


200131R1_5

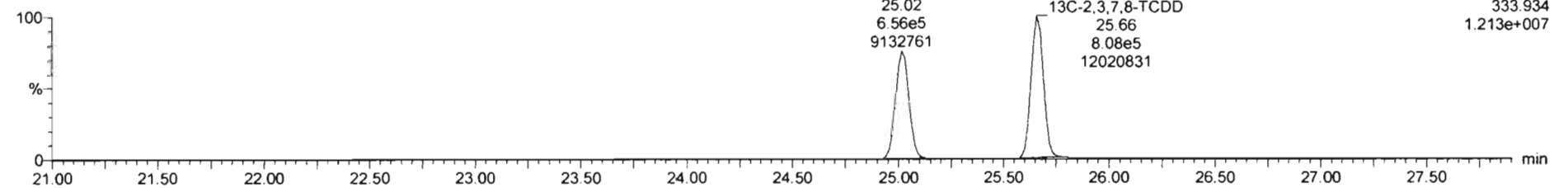


13C-2,3,7,8-TCDD

200131R1_5



200131R1_5



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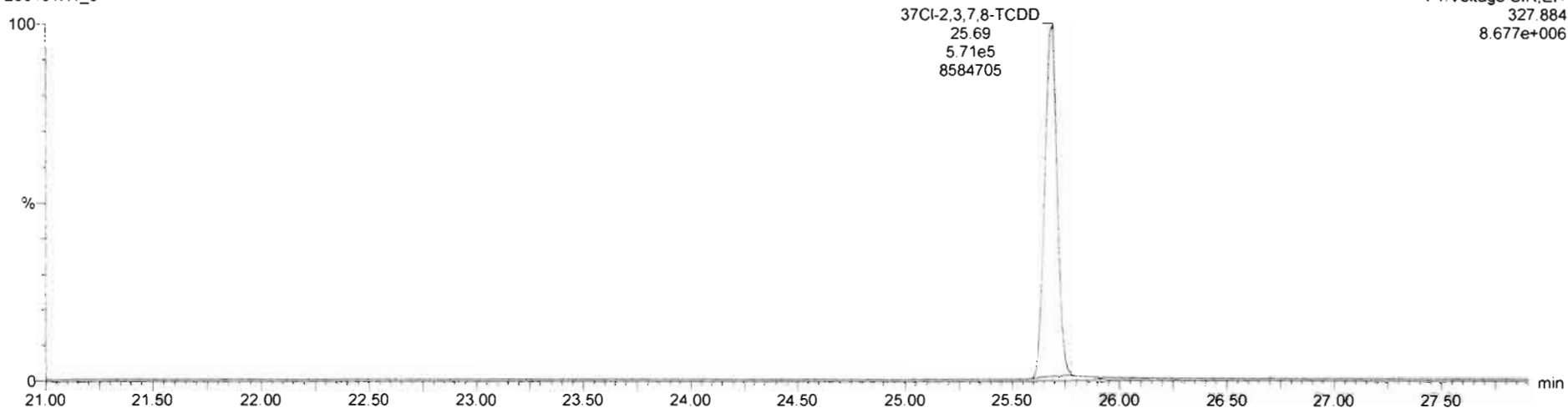
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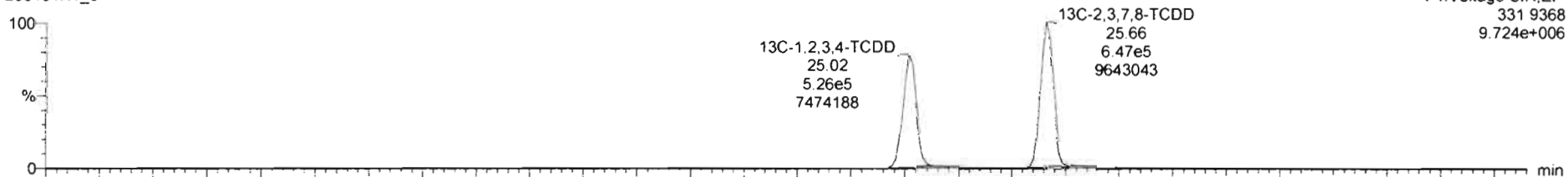
37Cl-2,3,7,8-TCDD

200131R1_5

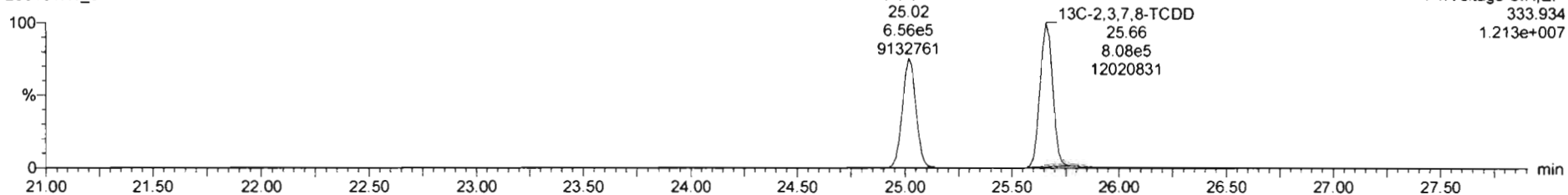


13C-1,2,3,4-TCDD

200131R1_5



200131R1_5



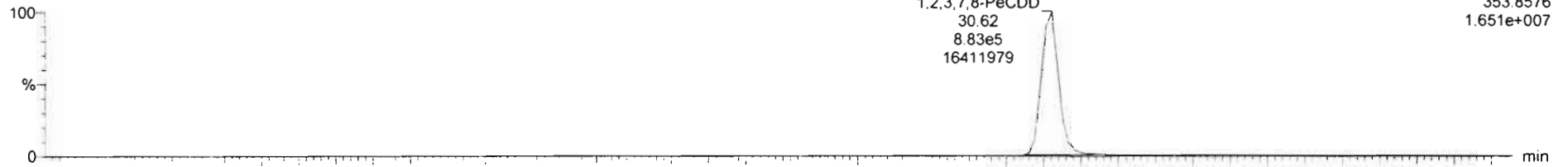
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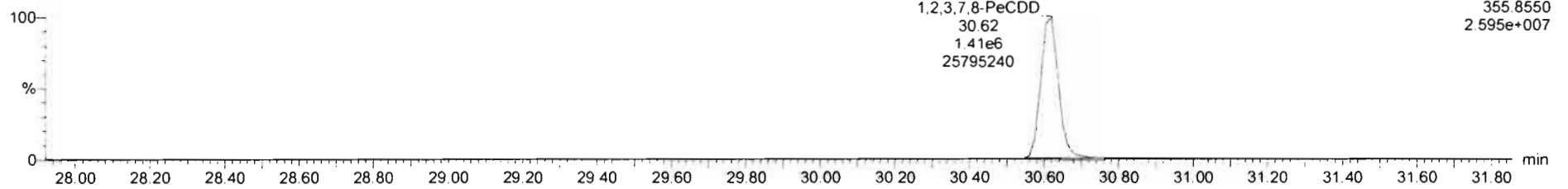
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1,2,3,7,8-PeCDD

200131R1_5

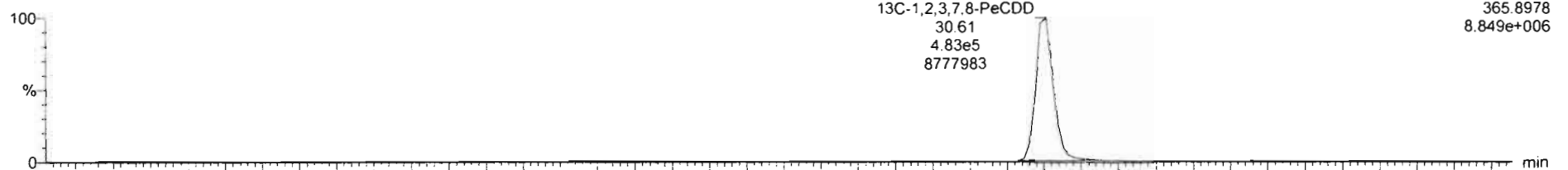


200131R1_5

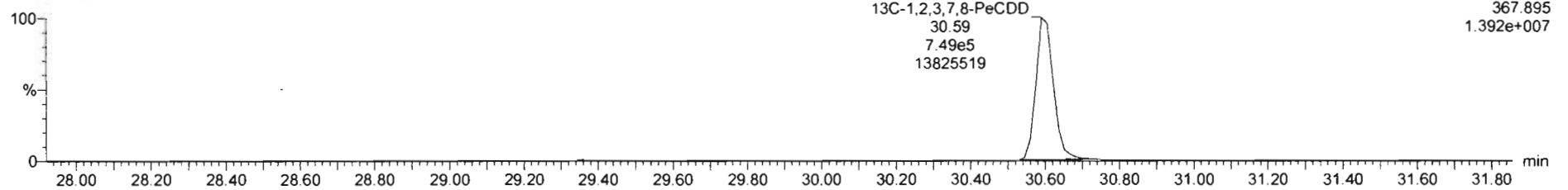


13C-1,2,3,7,8-PeCDD

200131R1_5



200131R1_5



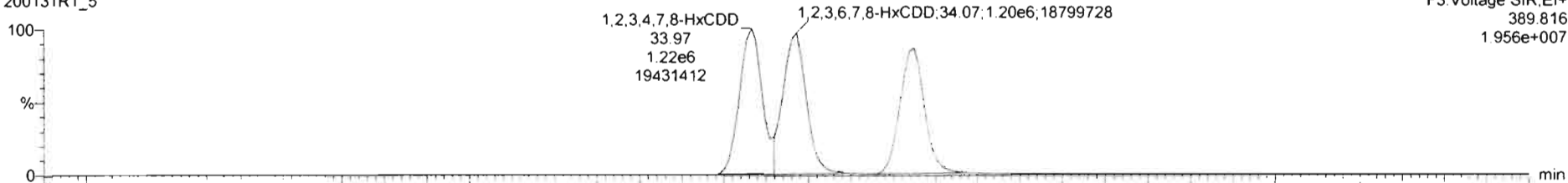
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

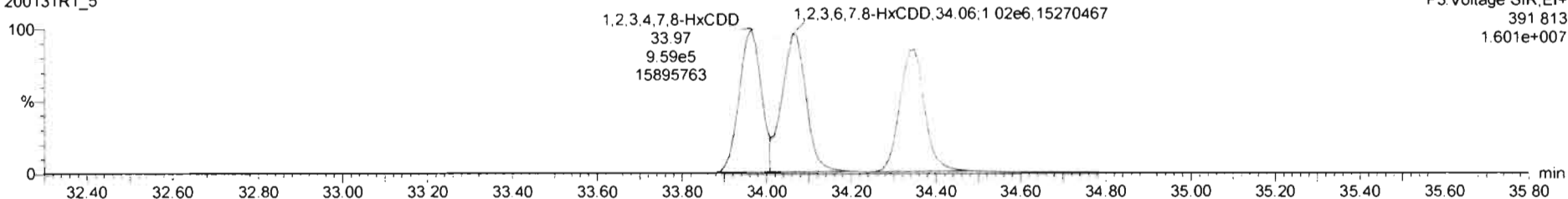
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1,2,3,4,7,8-HxCDD

200131R1_5

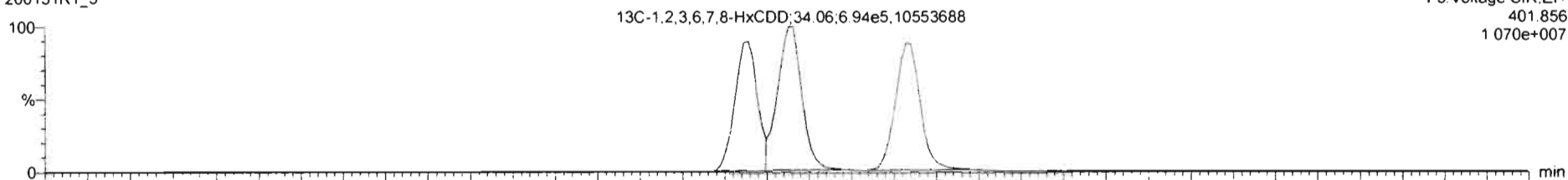


200131R1_5

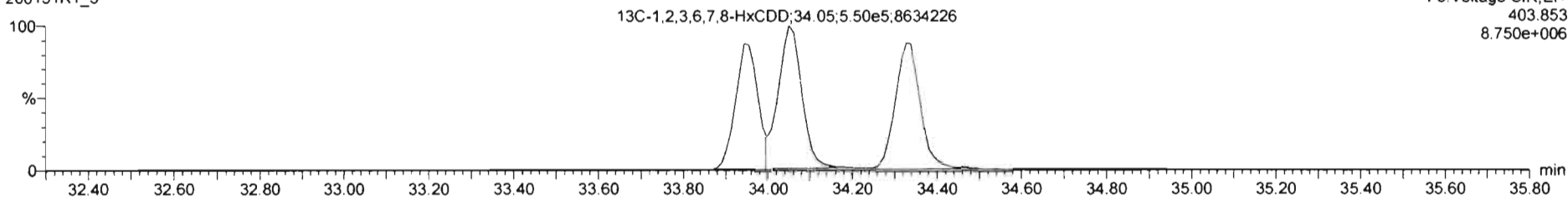


13C-1,2,3,4,7,8-HxCDD

200131R1_5



200131R1_5



Dataset: Untitled

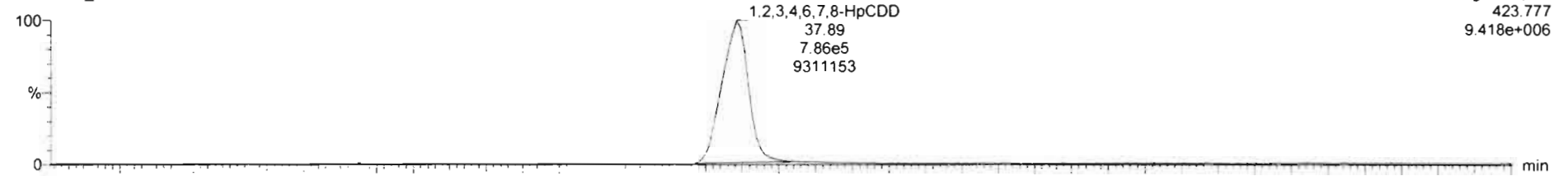
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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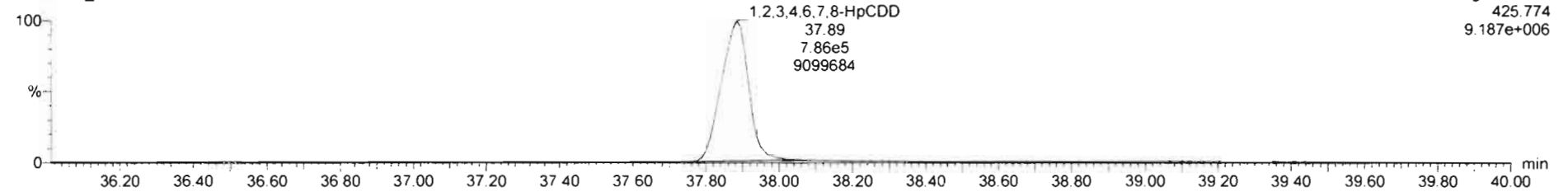
1,2,3,4,6,7,8-HpCDD

200131R1_5



F4: Voltage SIR, EI+
423.777
9.418e+006

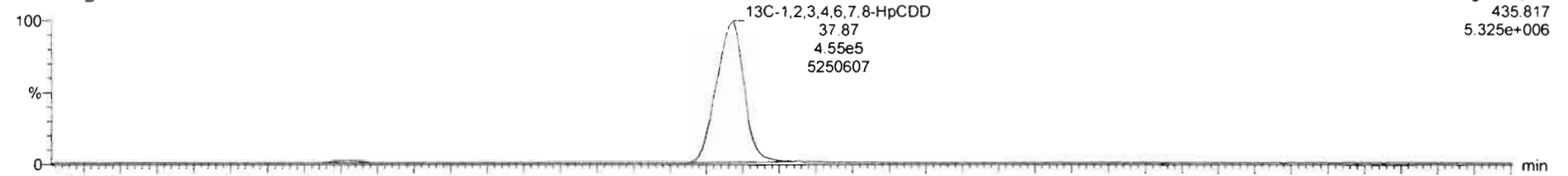
200131R1_5



F4 Voltage SIR, EI+
425.774
9.187e+006

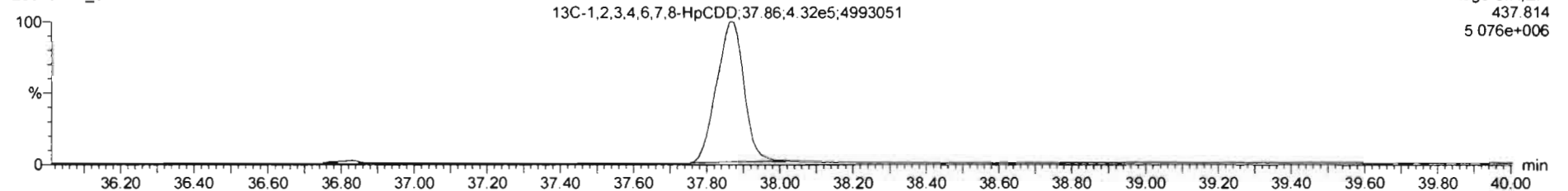
13C-1,2,3,4,6,7,8-HpCDD

200131R1_5



F4: Voltage SIR, EI+
435.817
5.325e+006

200131R1_5



F4: Voltage SIR, EI+
437.814
5.076e+006

Dataset: Untitled

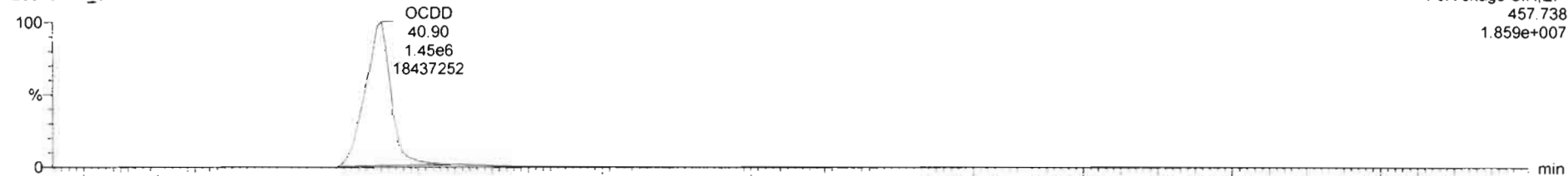
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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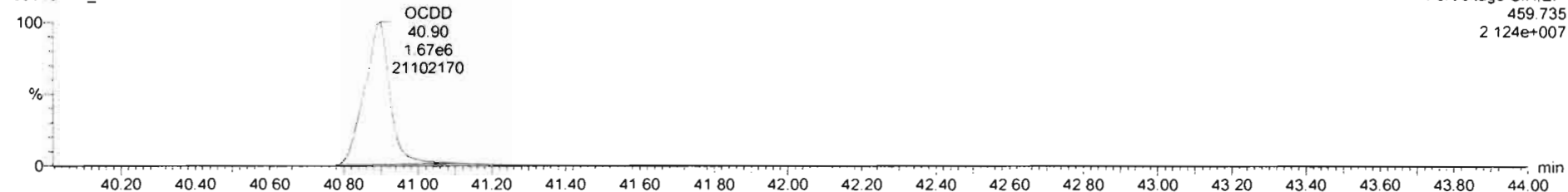
OCDD

200131R1_5



F5:Voltage SIR,EI+
457.738
1.859e+007

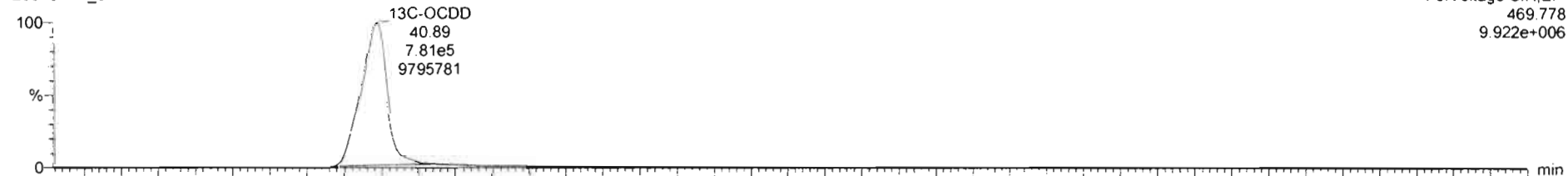
200131R1_5



F5:Voltage SIR,EI+
459.735
2.124e+007

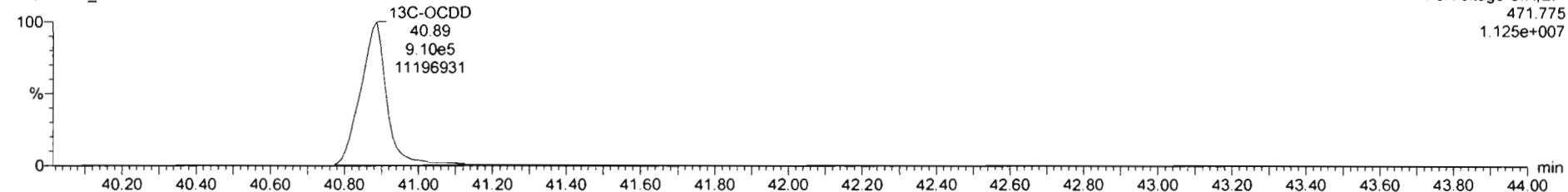
13C-OCDD

200131R1_5



F5:Voltage SIR,EI+
469.778
9.922e+006

200131R1_5



F5:Voltage SIR,EI+
471.775
1.125e+007

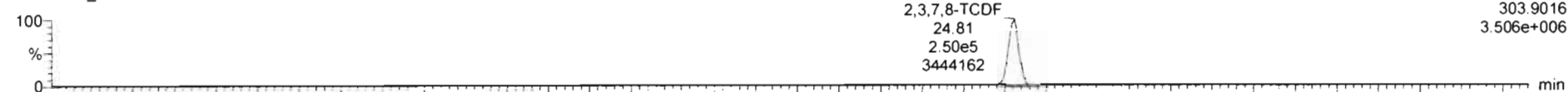
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Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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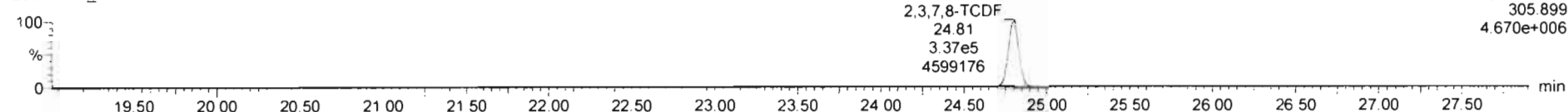
2,3,7,8-TCDF

200131R1_5



F1: Voltage SIR, EI+
303.9016
3.506e+006

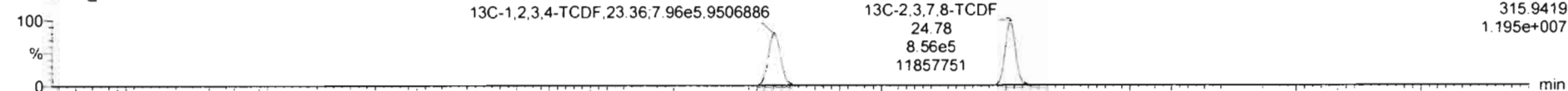
200131R1_5



F1: Voltage SIR, EI+
305.899
4.670e+006

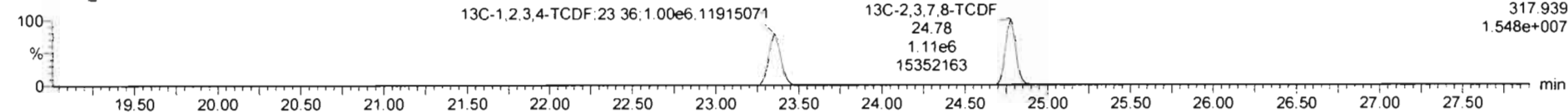
13C-2,3,7,8-TCDF

200131R1_5



F1: Voltage SIR, EI+
315.9419
1.195e+007

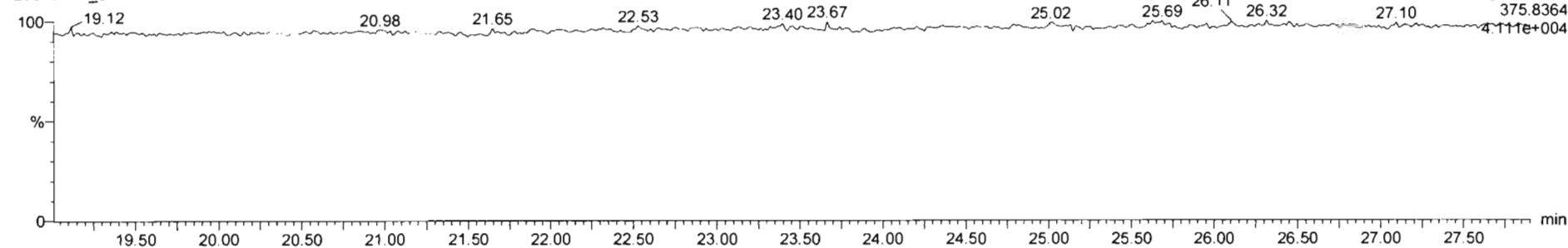
200131R1_5



F1: Voltage SIR, EI+
317.939
1.548e+007

DPE1

200131R1_5



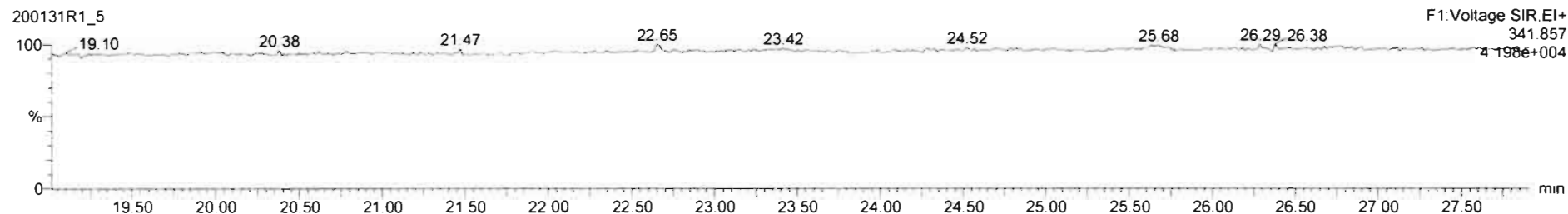
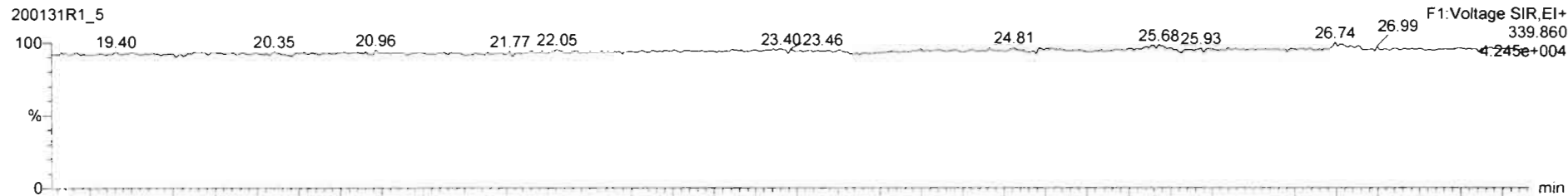
F1: Voltage SIR, EI+
375.8364
4.111e+004

Dataset: Untitled

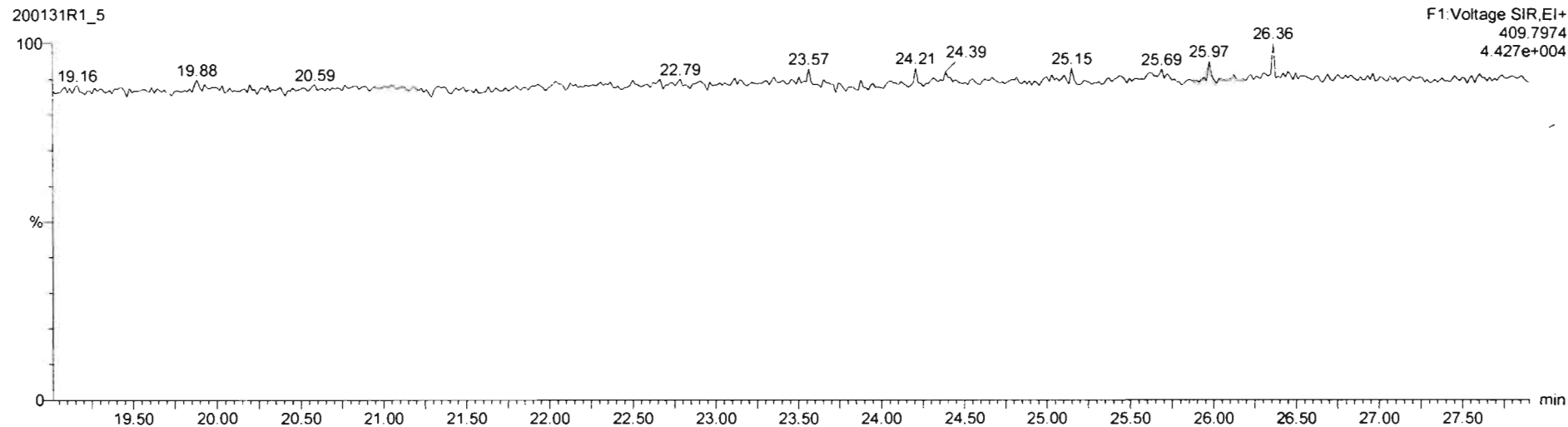
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Name: 200131R1_5, Date: 31-Jan-2020, Time: 19:57:17, ID: ST200131R1_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

1st Func. Penta-Furans



DPE6



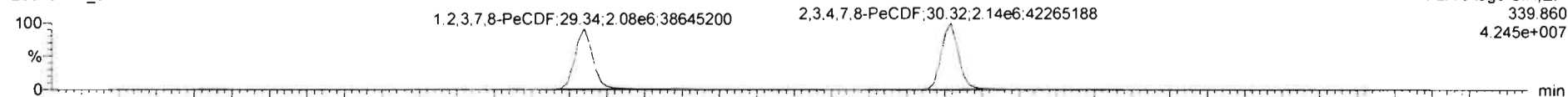
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

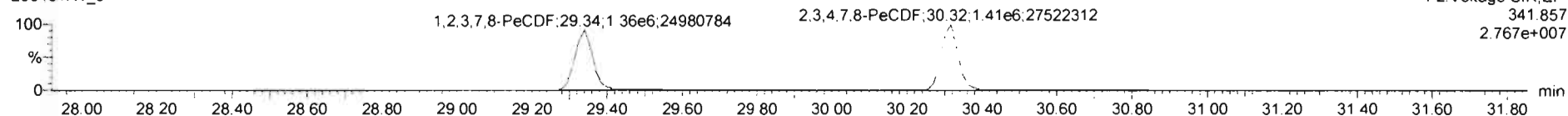
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1,2,3,7,8-PeCDF

200131R1_5

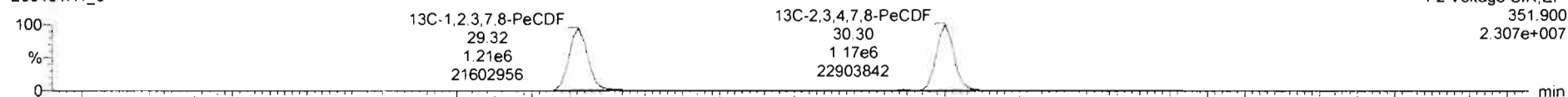


200131R1_5

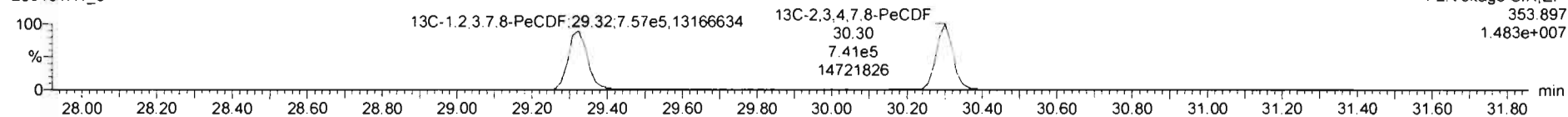


13C-1,2,3,7,8-PeCDF

200131R1_5

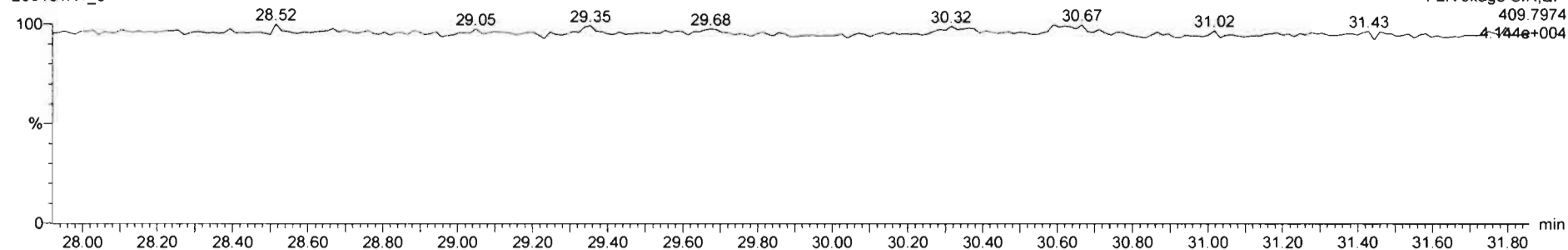


200131R1_5



DPE2

200131R1_5



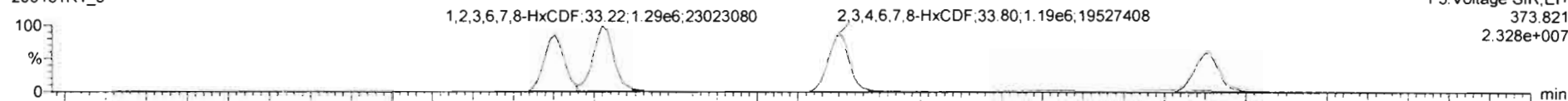
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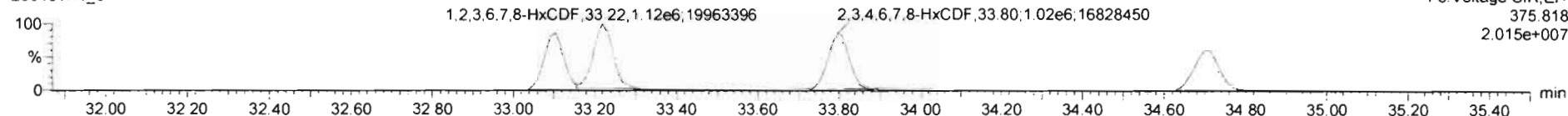
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1,2,3,4,7,8-HxCDF

200131R1_5

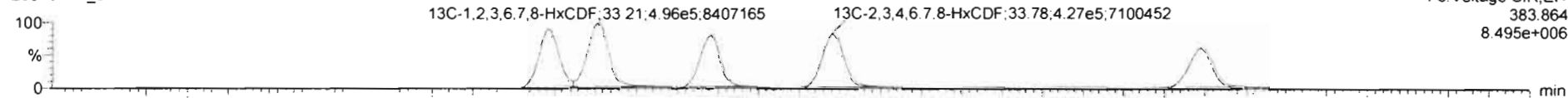


200131R1_5

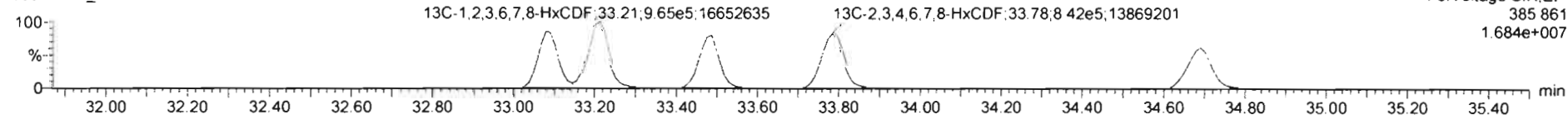


13C-1,2,3,4,7,8-HxCDF

200131R1_5

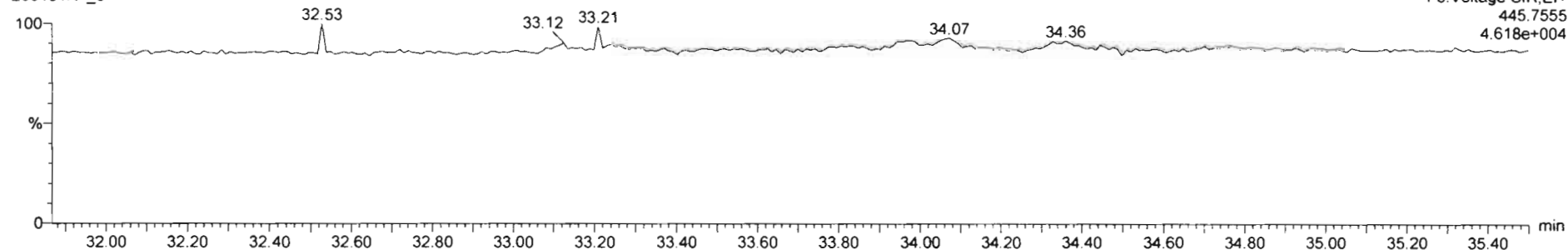


200131R1_5



DPE3

200131R1_5

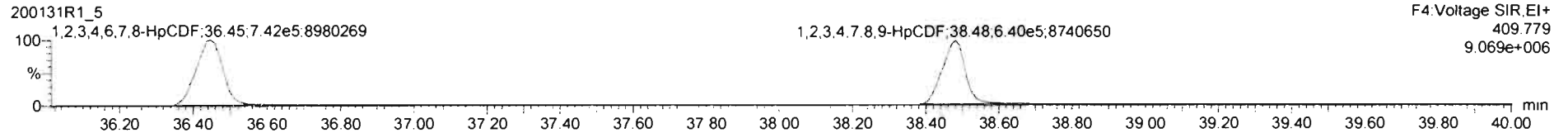
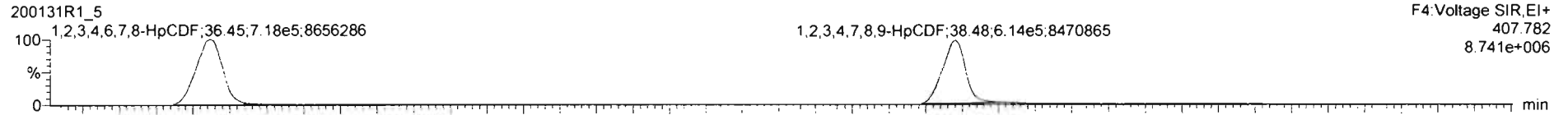


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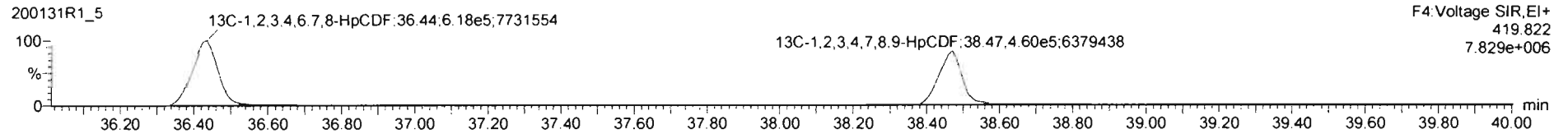
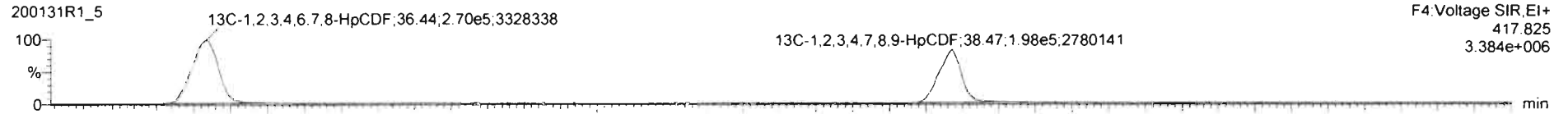
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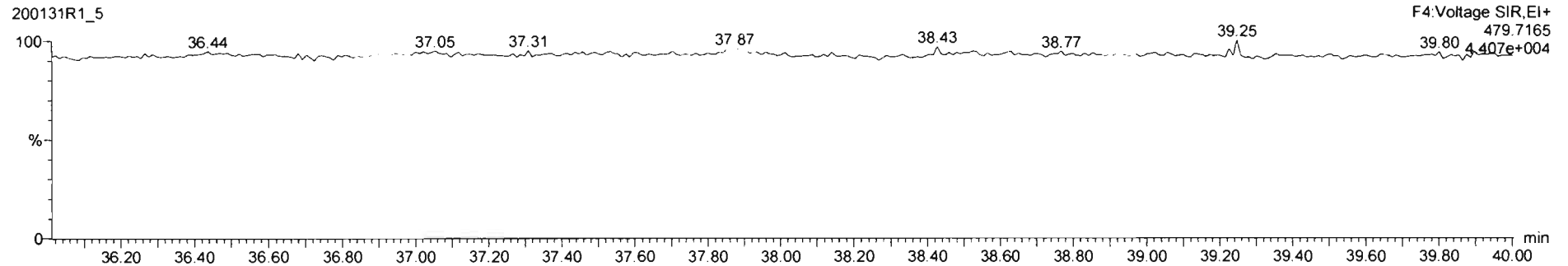
1,2,3,4,6,7,8-HpCDF



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



DPE4

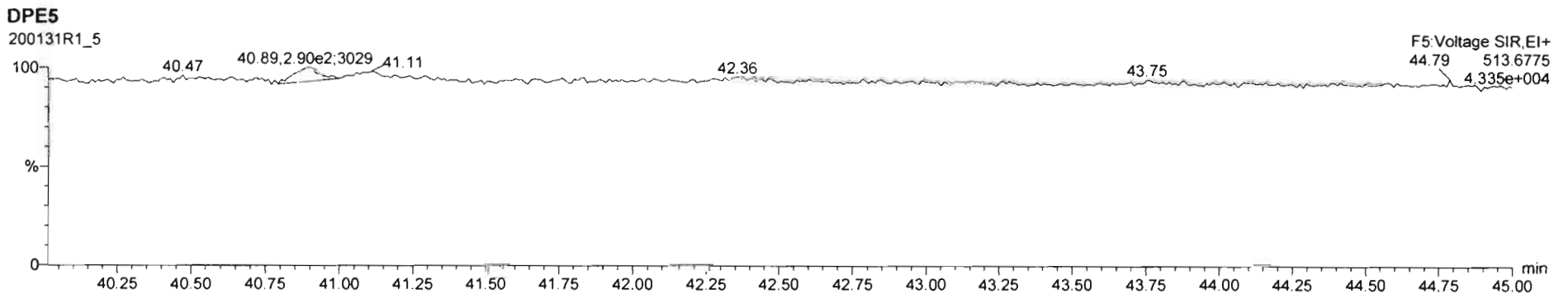
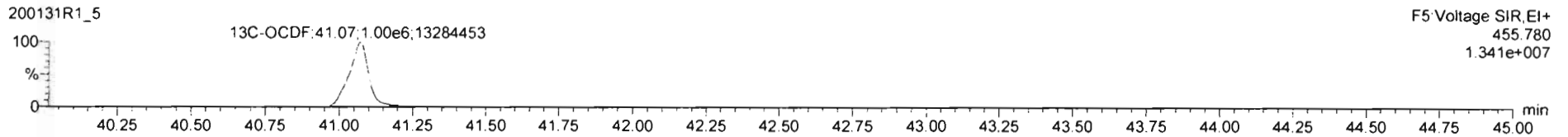
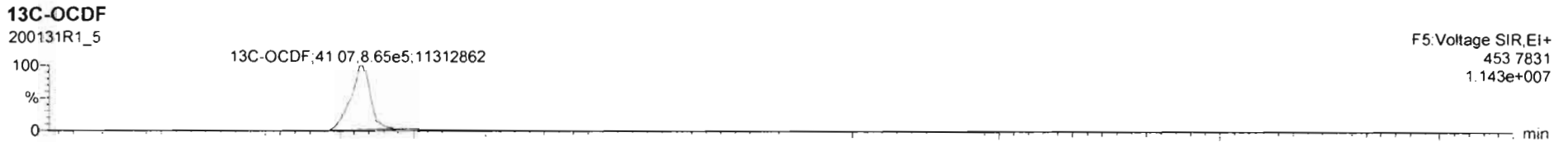
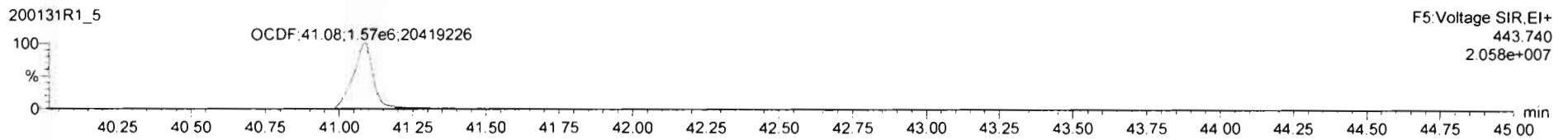
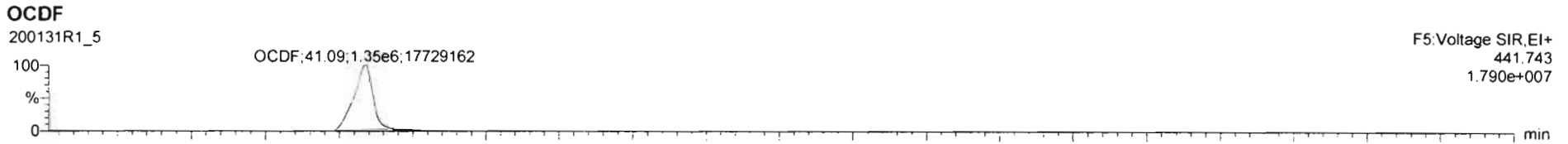


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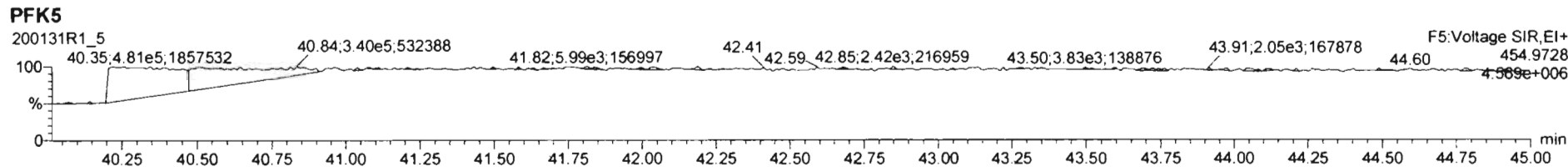
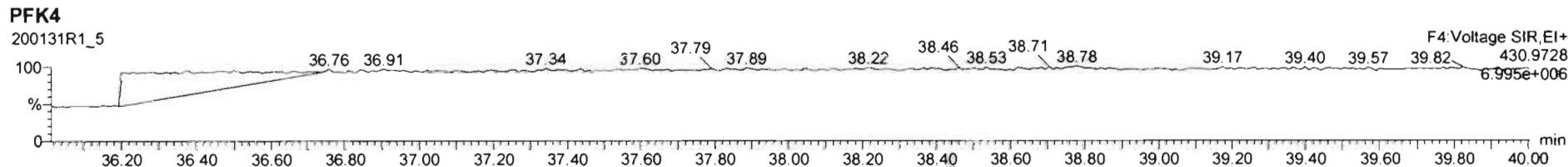
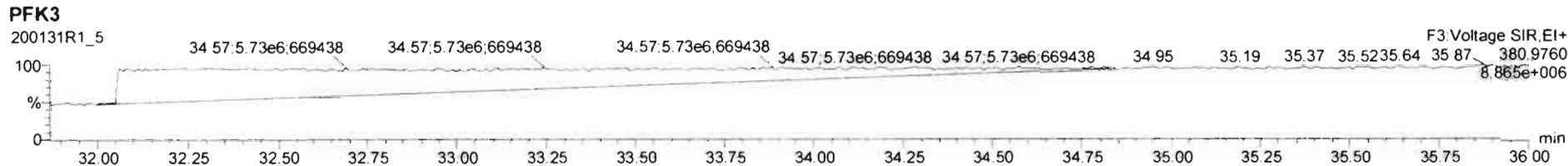
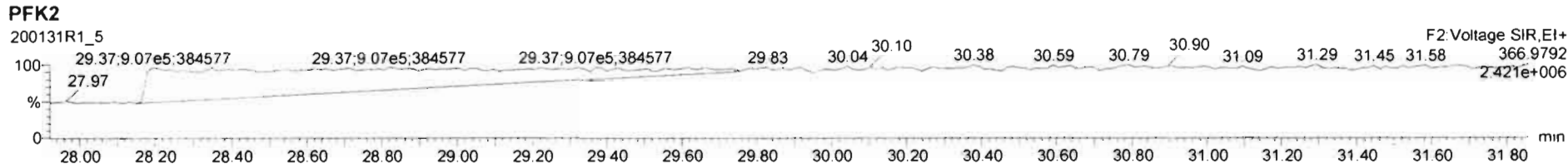
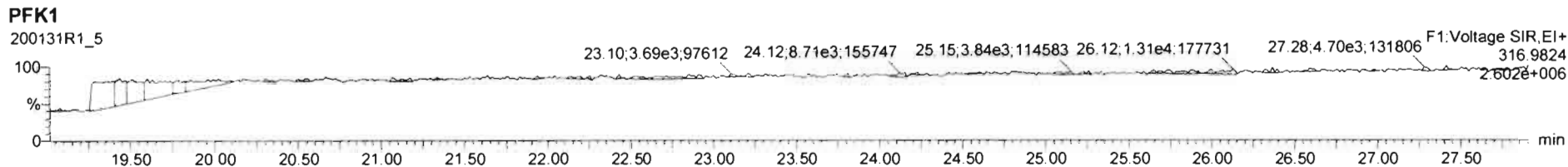
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Dataset: Untitled

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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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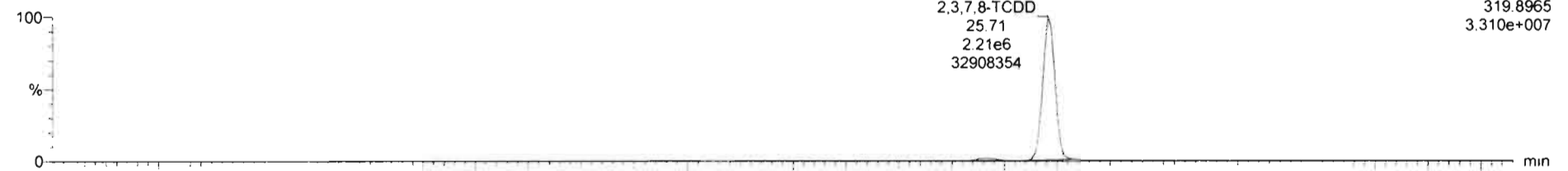
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

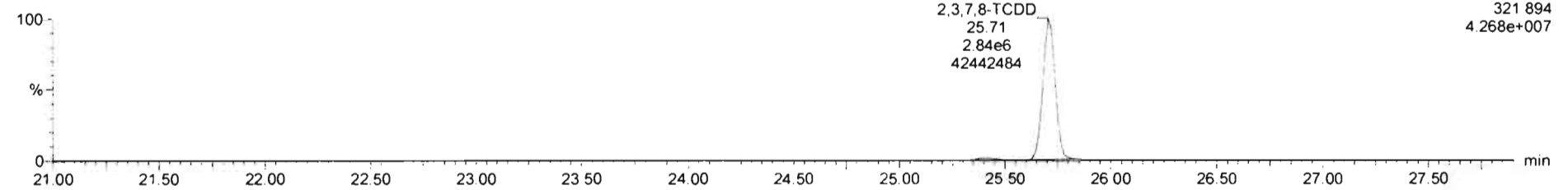
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2,3,7,8-TCDD

200131R1_6

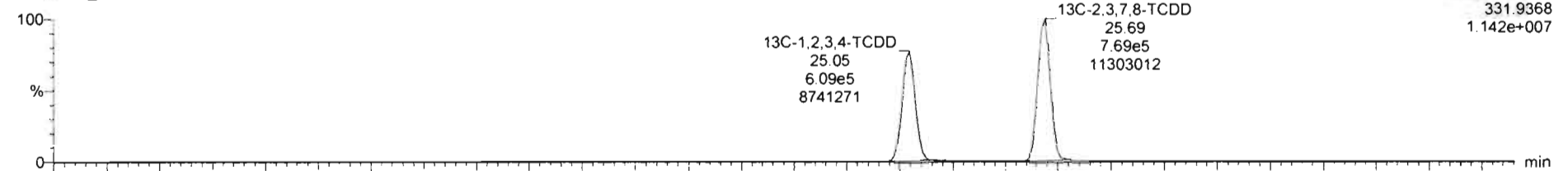


200131R1_6

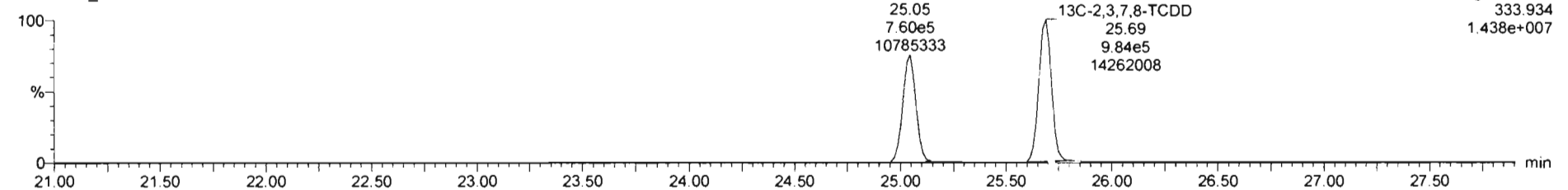


13C-2,3,7,8-TCDD

200131R1_6



200131R1_6



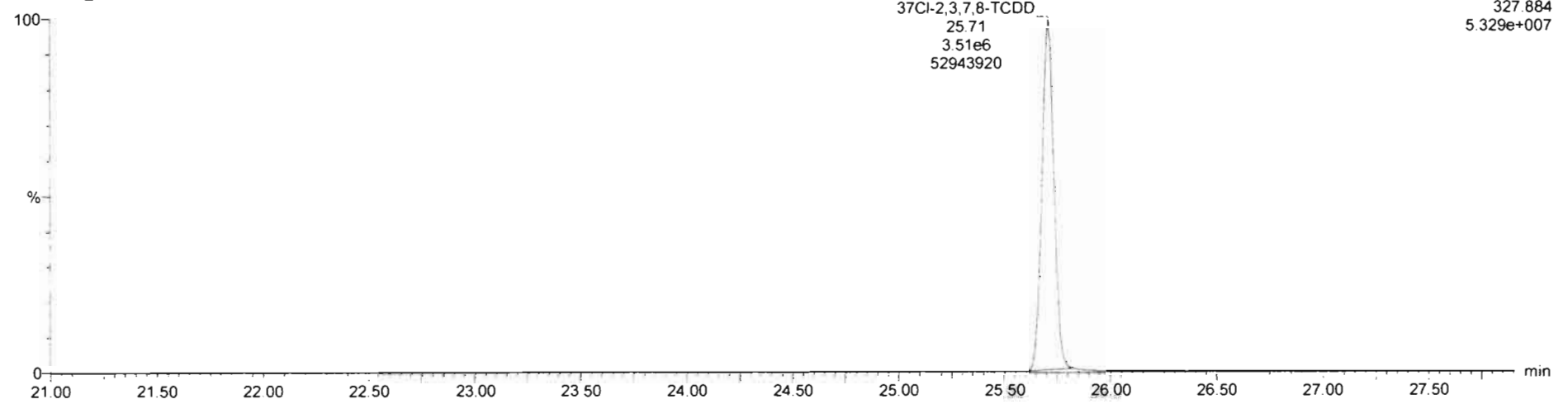
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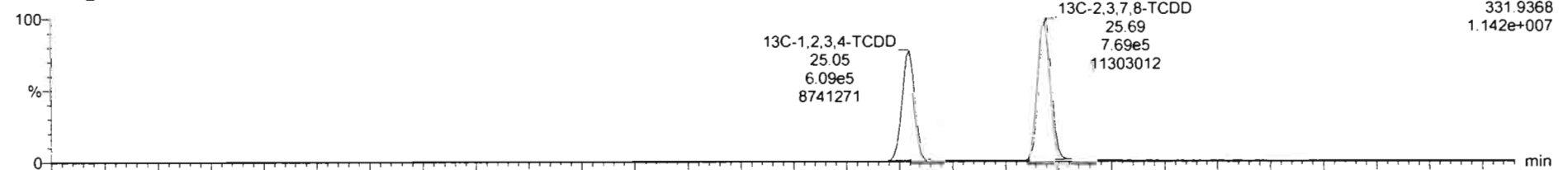
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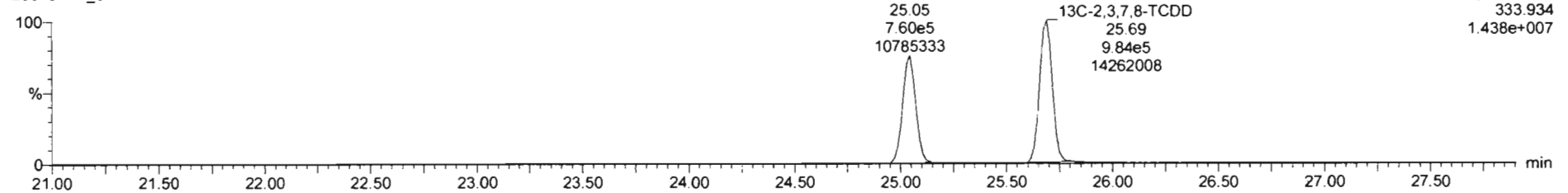


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200131R1_6



200131R1_6



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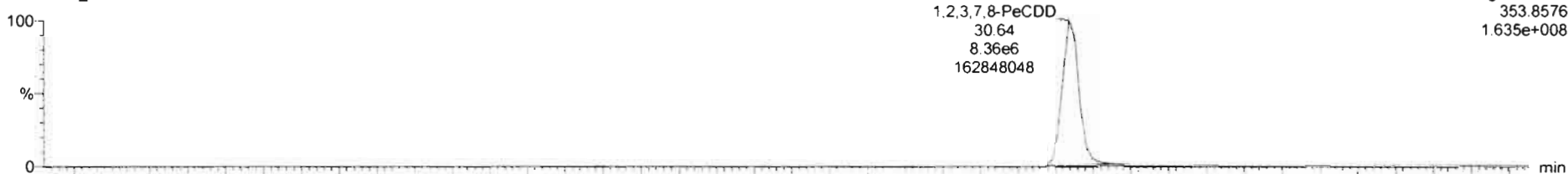
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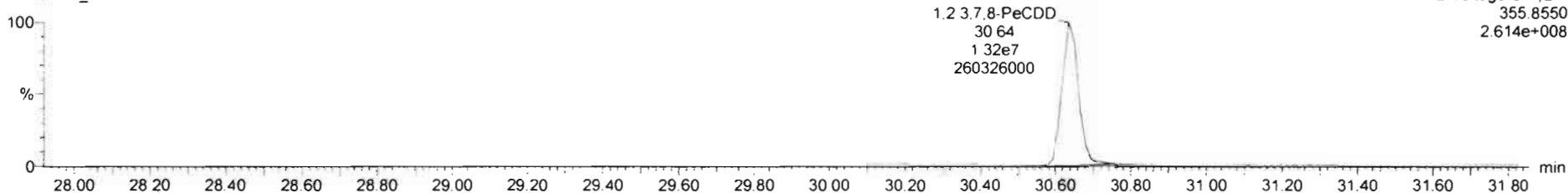
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1,2,3,7,8-PeCDD

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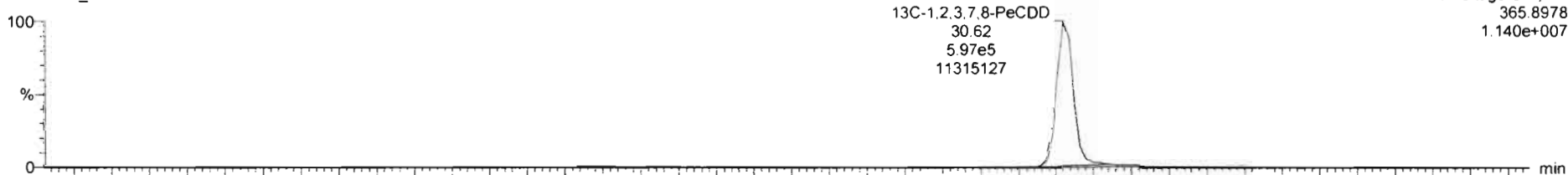


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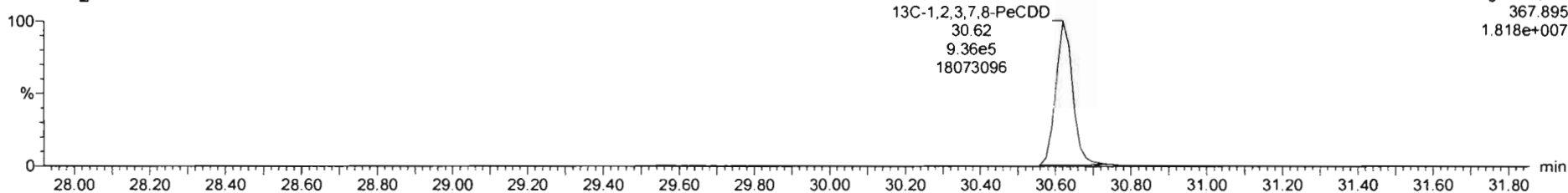


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200131R1_6



200131R1_6



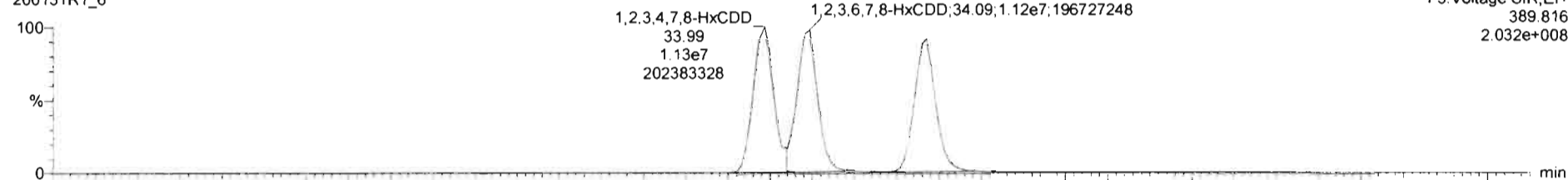
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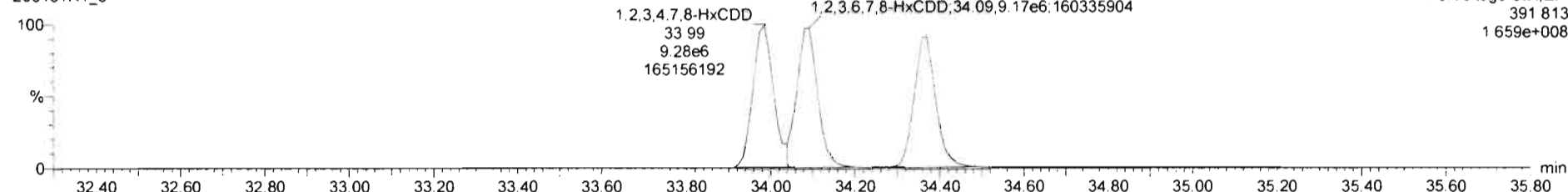
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1,2,3,4,7,8-HxCDD

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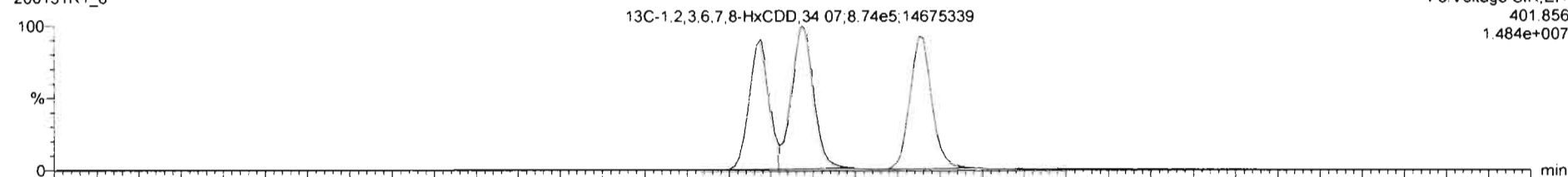


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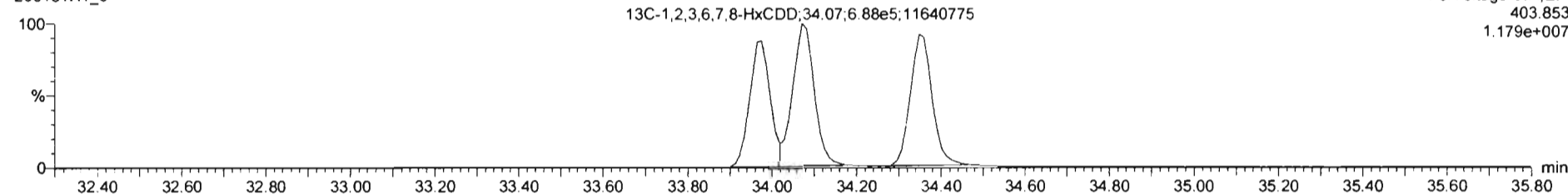


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200131R1_6



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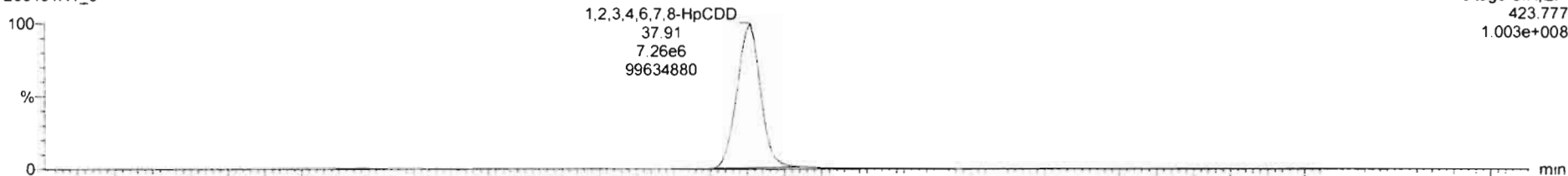
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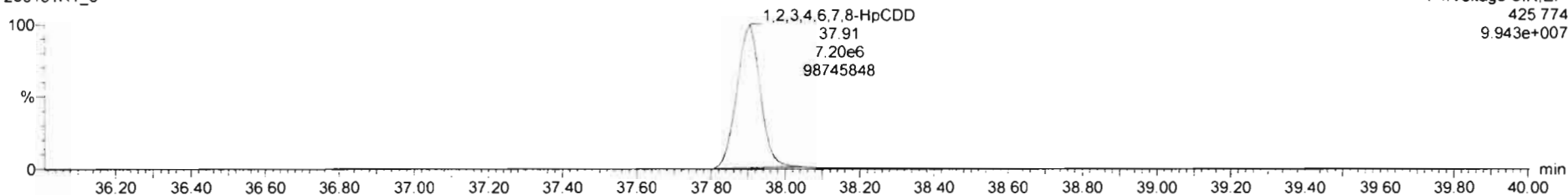
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1,2,3,4,6,7,8-HpCDD

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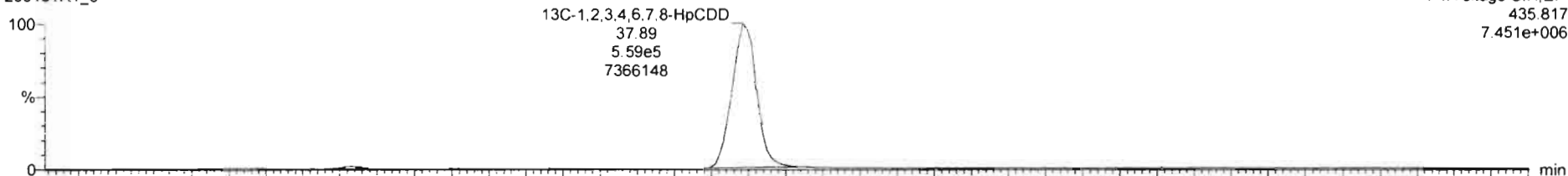


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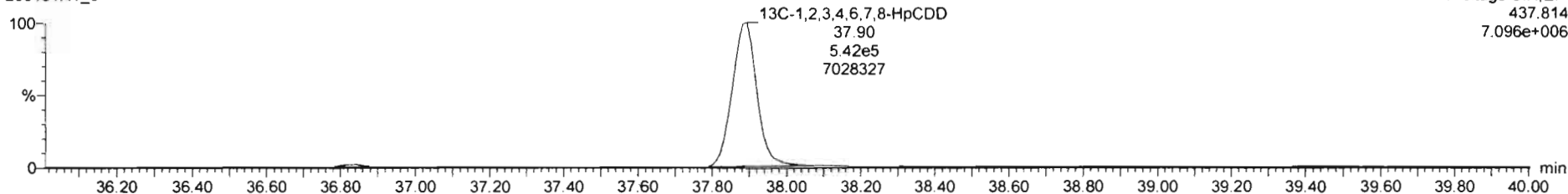


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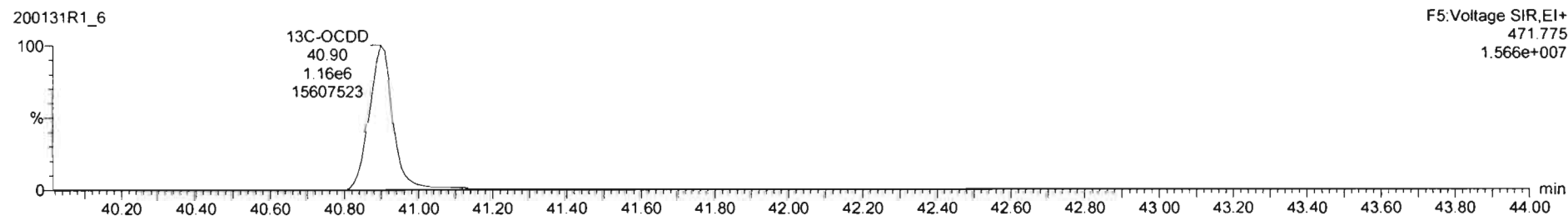
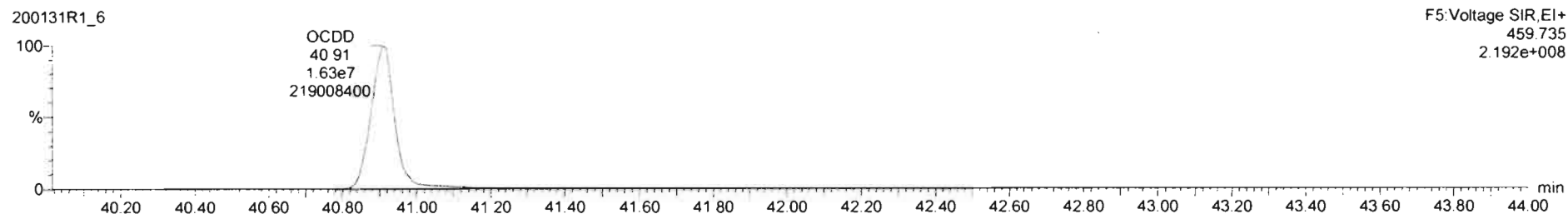
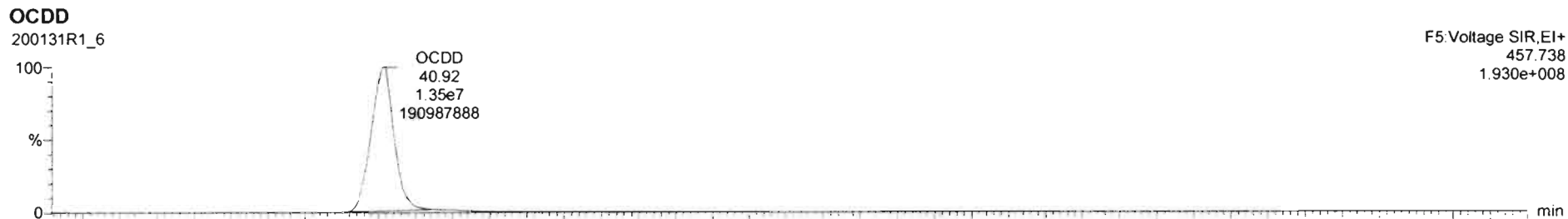
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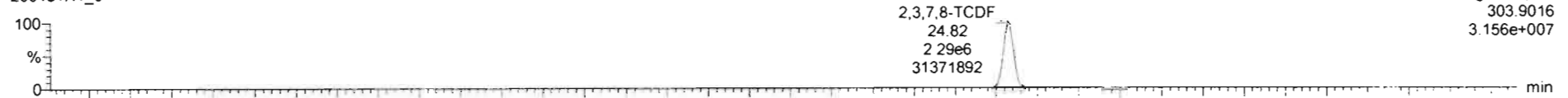
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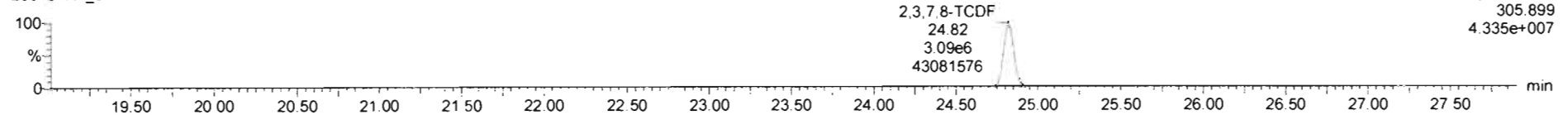
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2,3,7,8-TCDF

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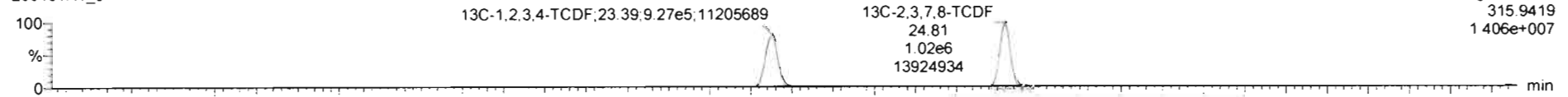


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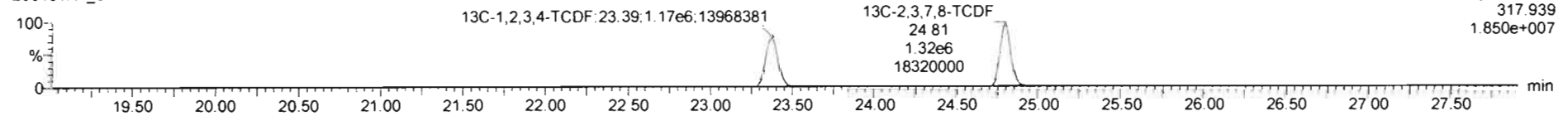


13C-2,3,7,8-TCDF

200131R1_6

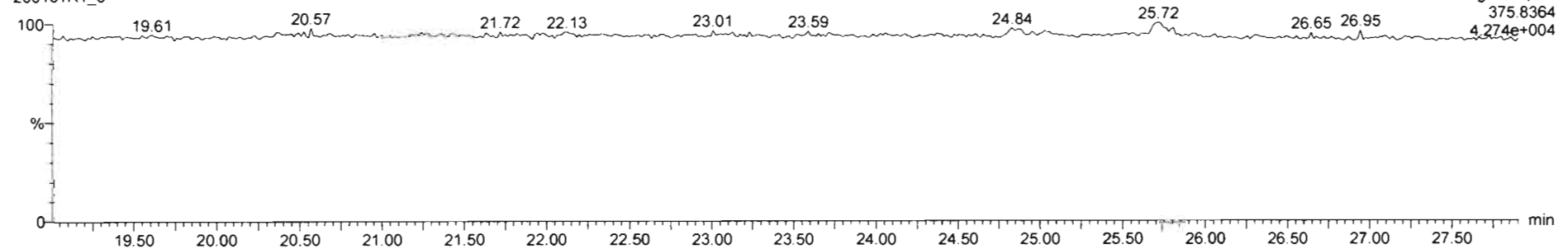


200131R1_6



DPE1

200131R1_6



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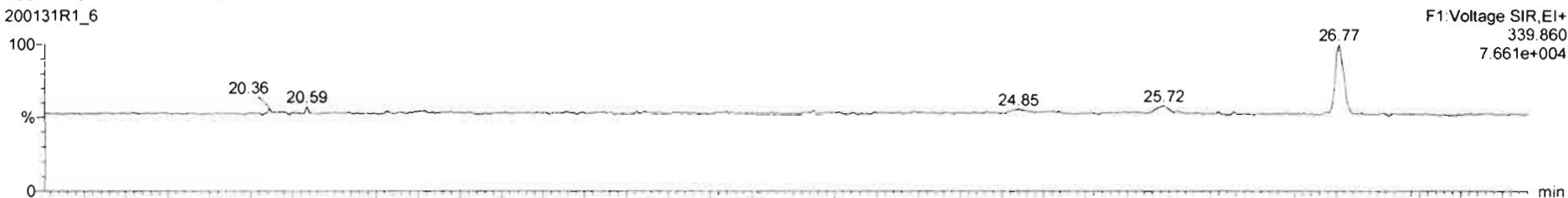
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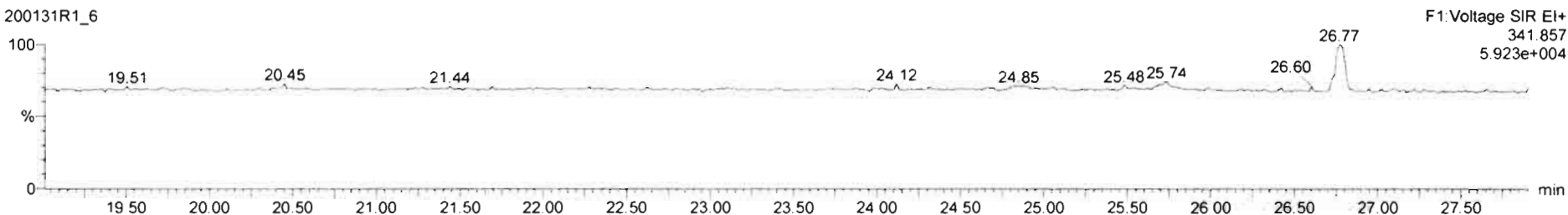
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200131R1_6

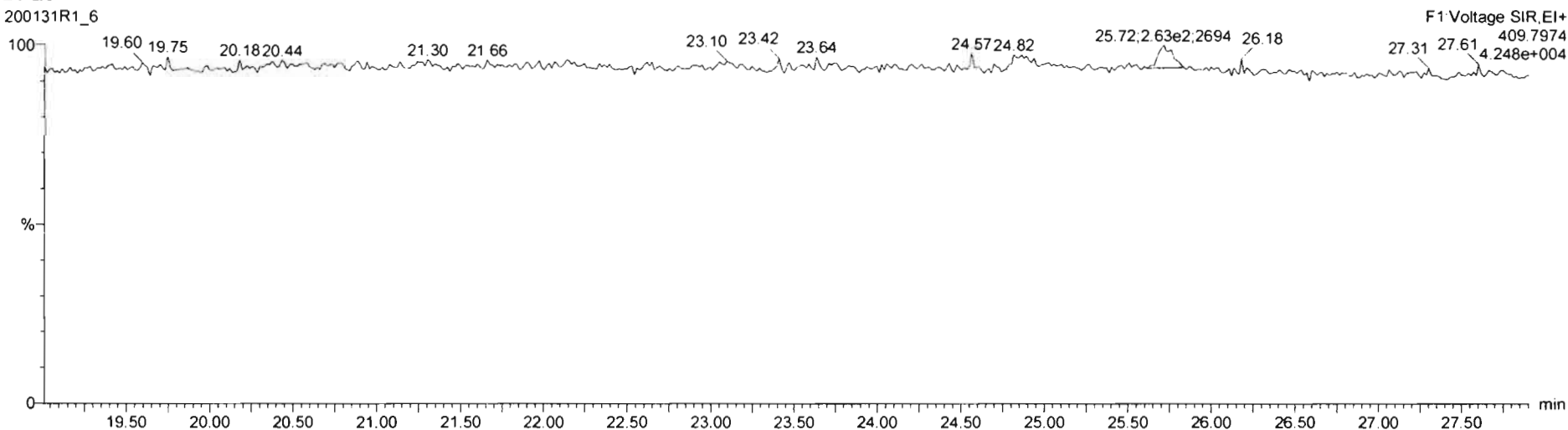


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DPE6

200131R1_6



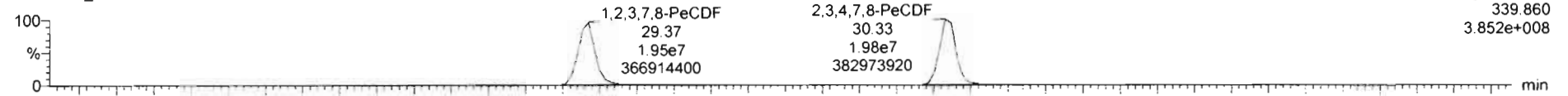
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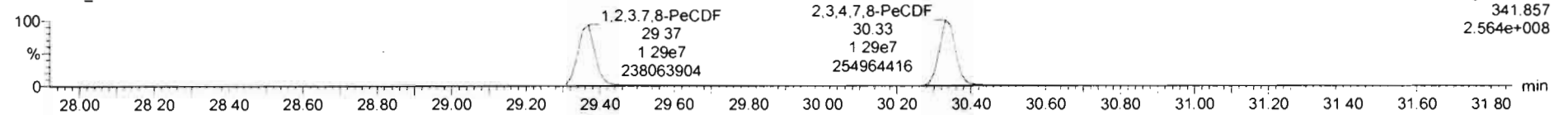
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1,2,3,7,8-PeCDF

200131R1_6

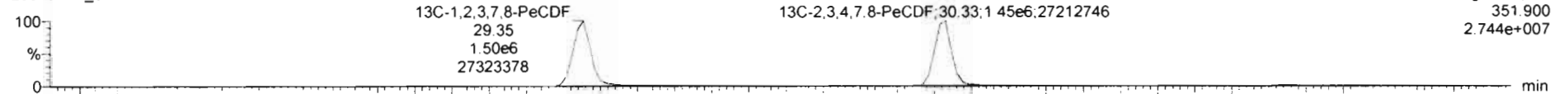


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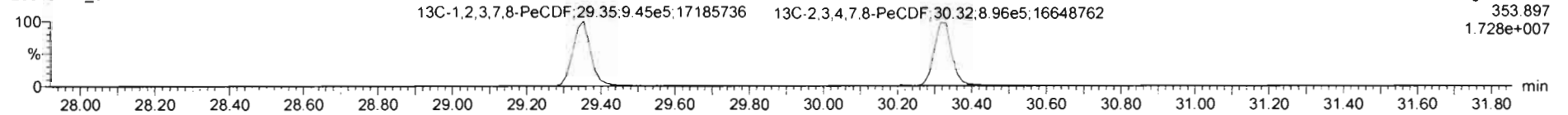


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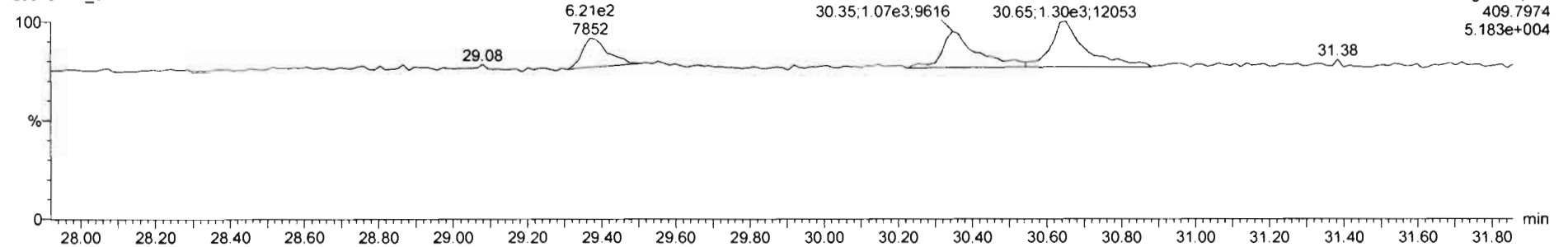


200131R1_6



DPE2

200131R1_6



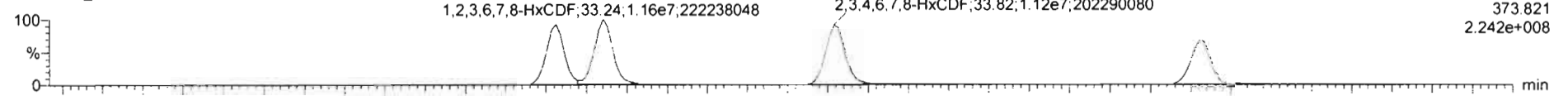
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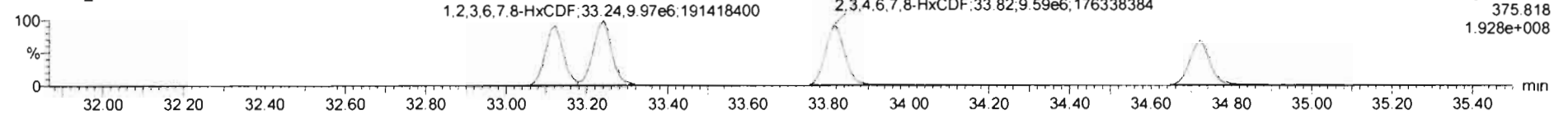
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1,2,3,4,7,8-HxCDF

200131R1_6

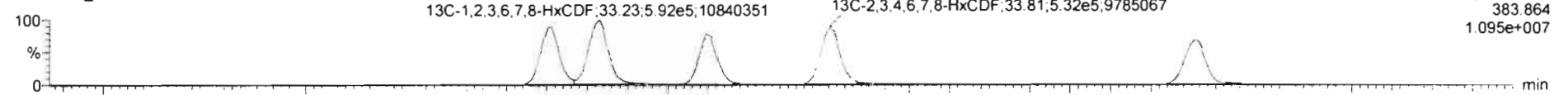


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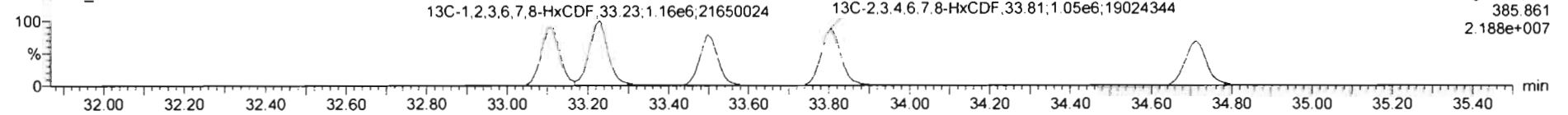


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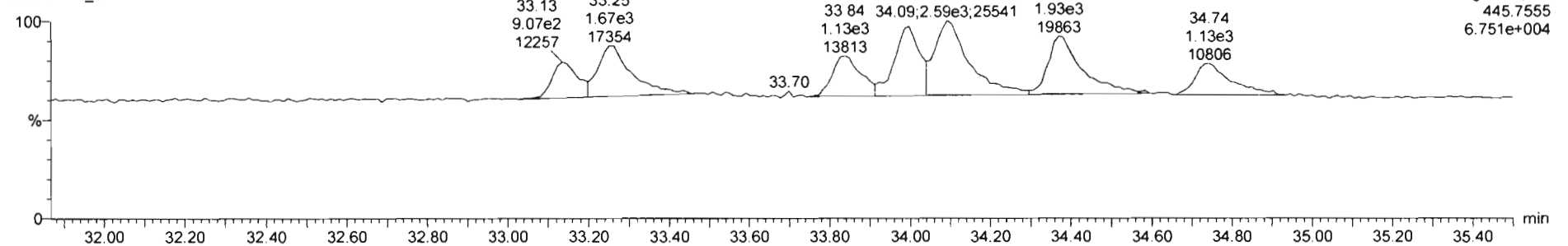


200131R1_6



DPE3

200131R1_6



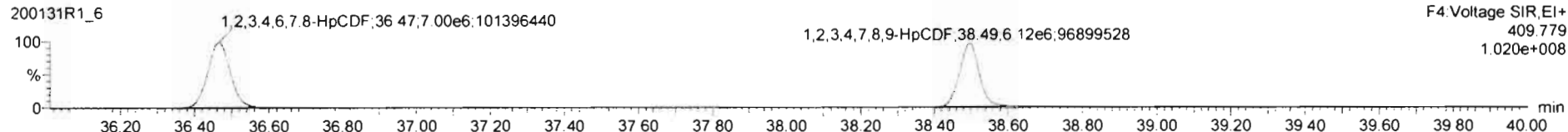
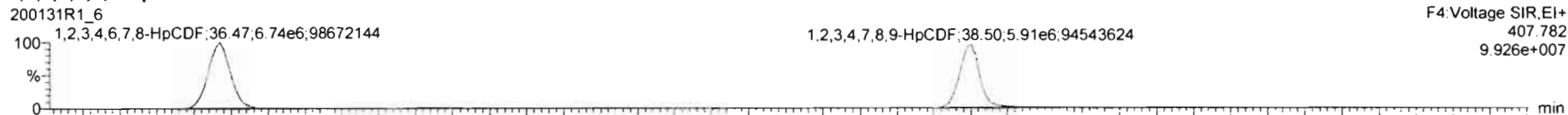
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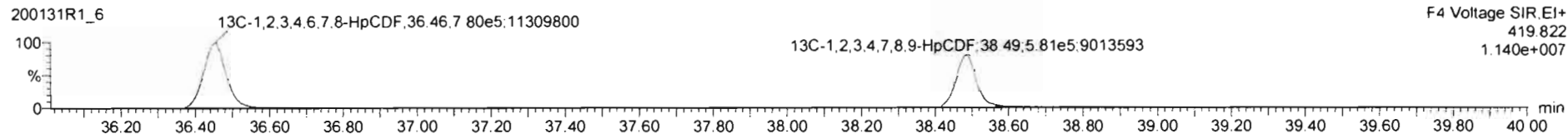
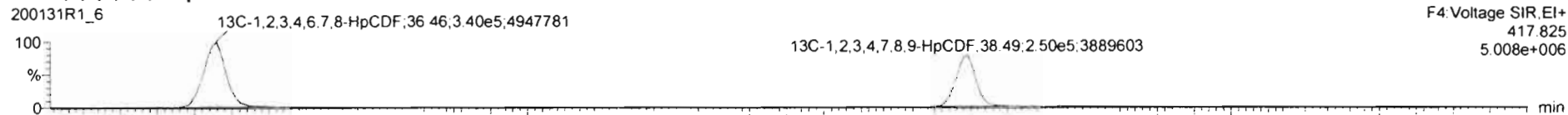
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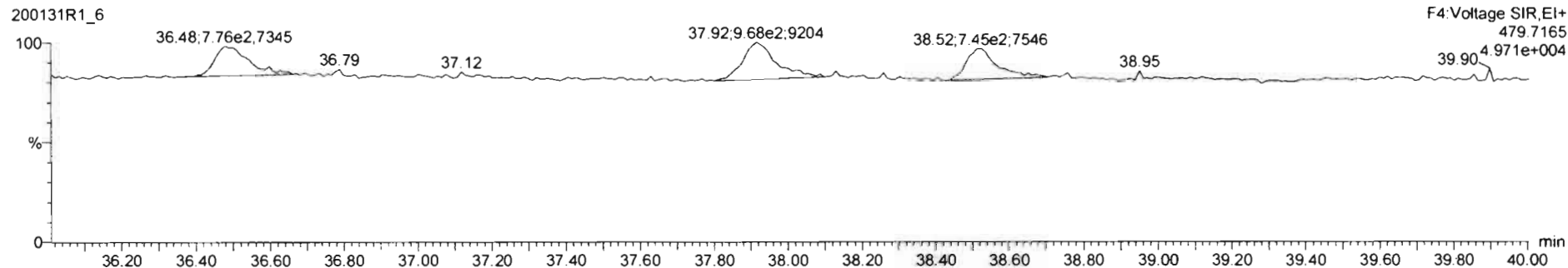
1,2,3,4,6,7,8-HpCDF



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



DPE4

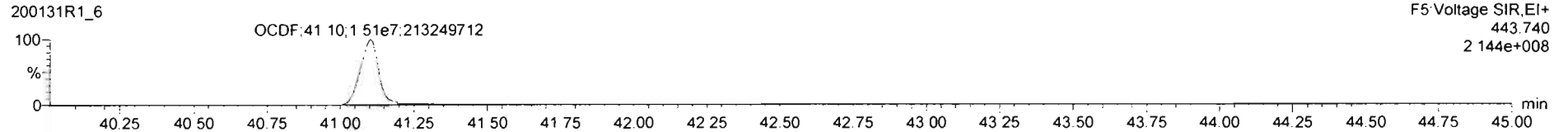
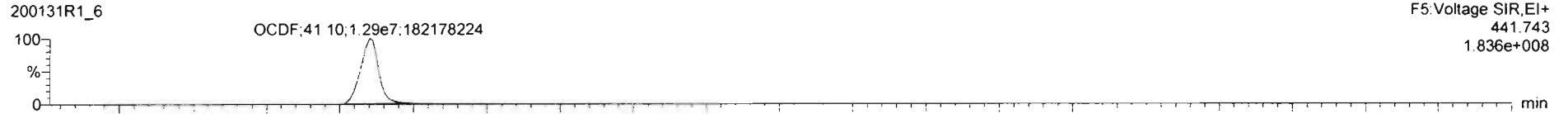


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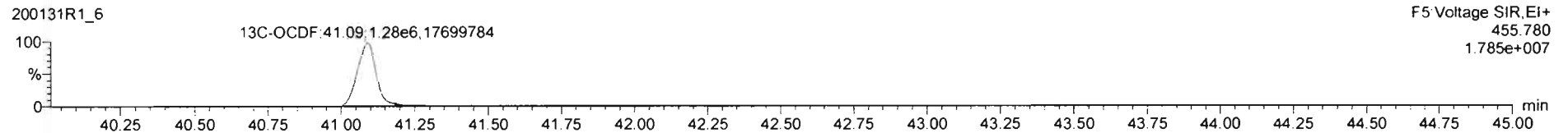
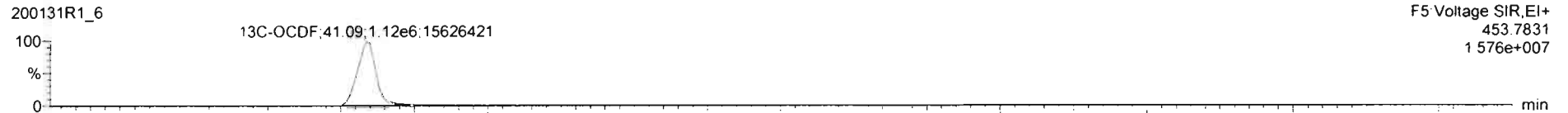
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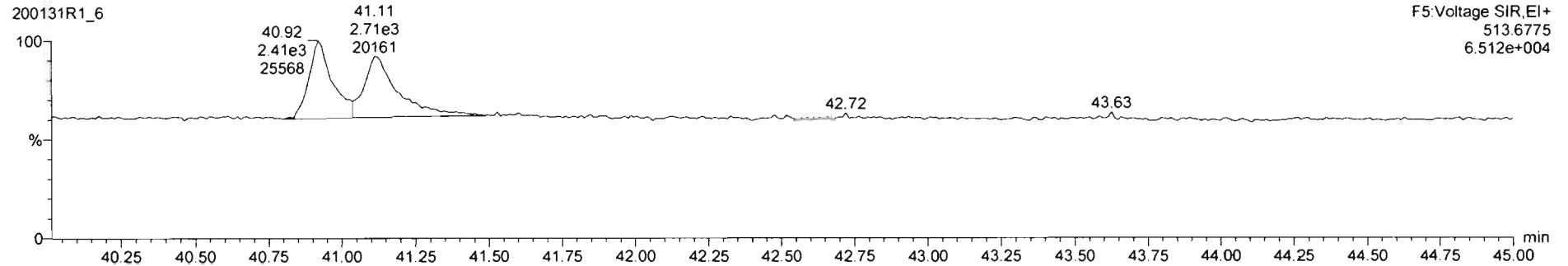
OCDF



13C-OCDF



DPE5

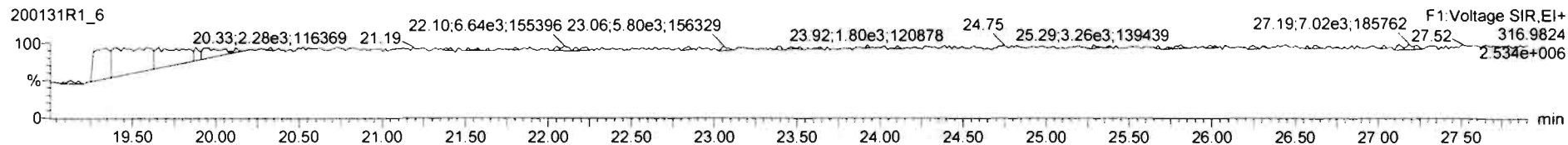


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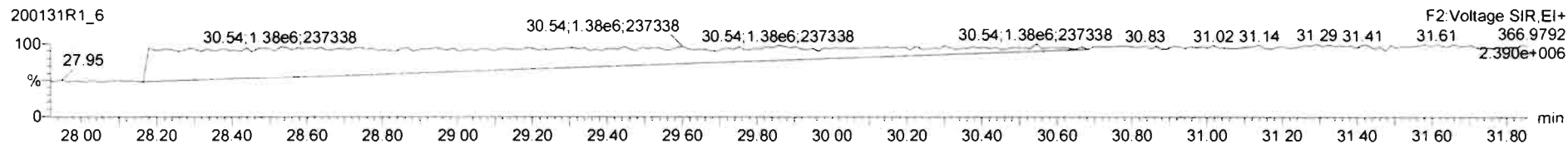
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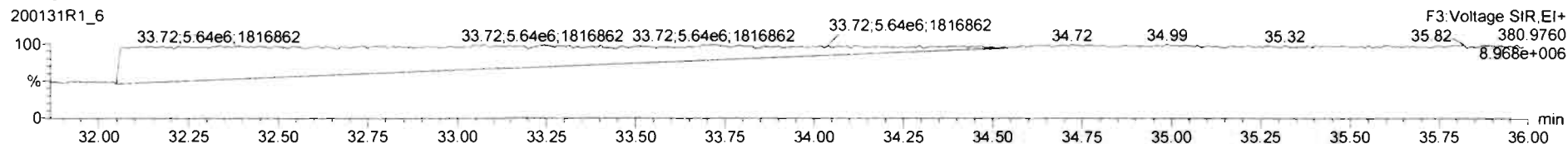
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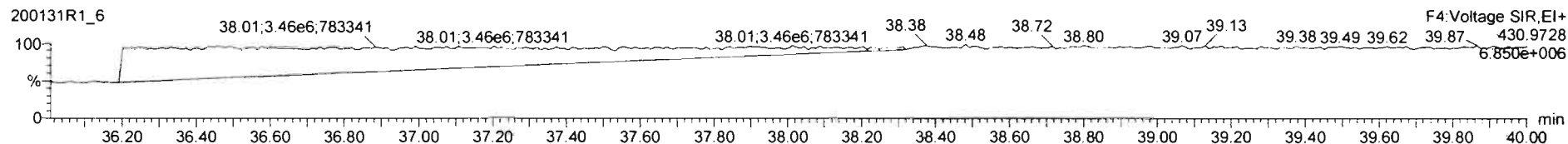
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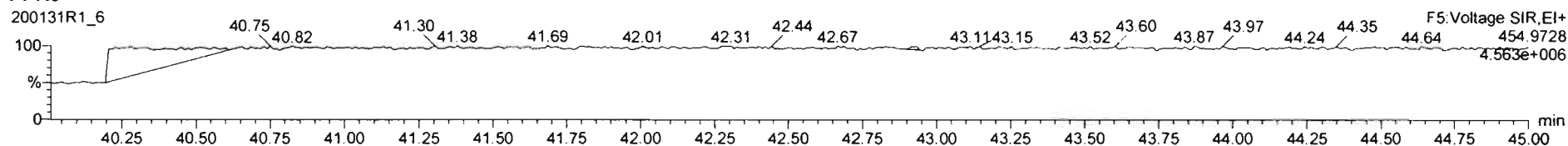
PFK3



PFK4



PFK5

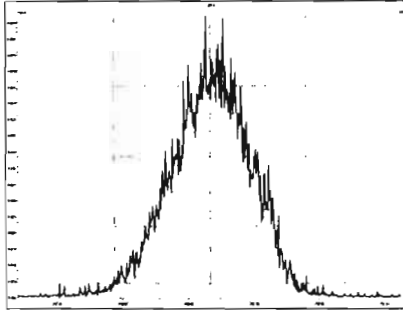


Resolution Check Report

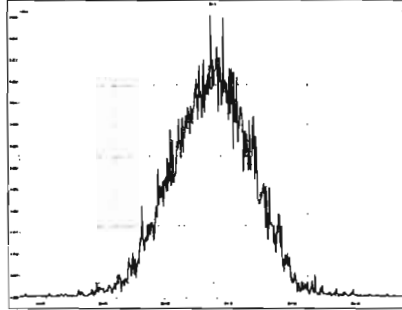
MassLynx 4.1 SCN815

Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

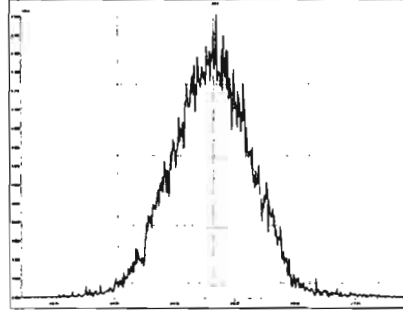
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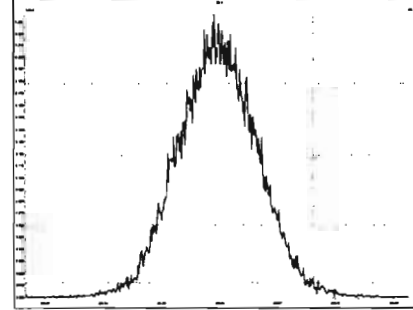
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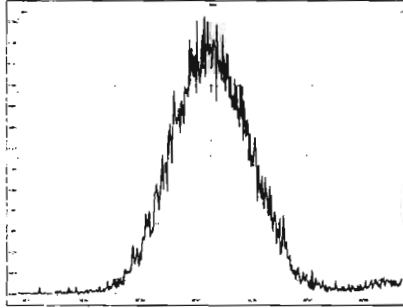
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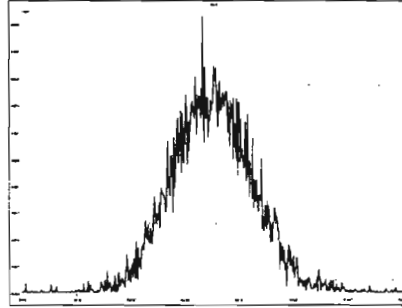
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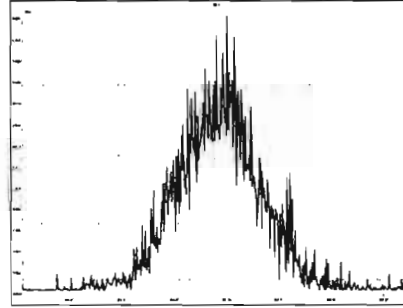
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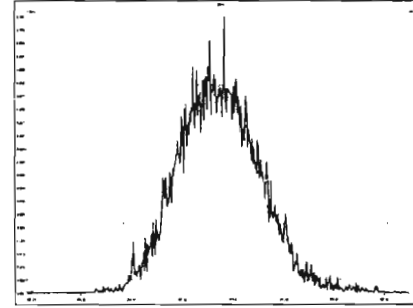
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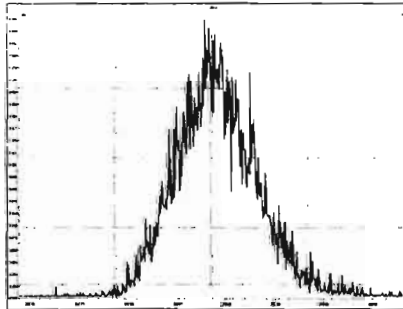
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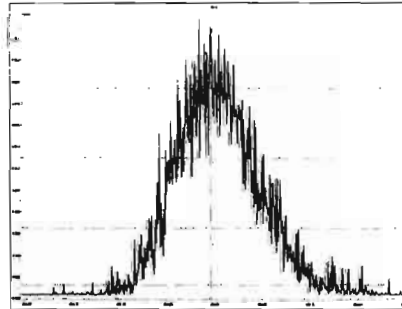
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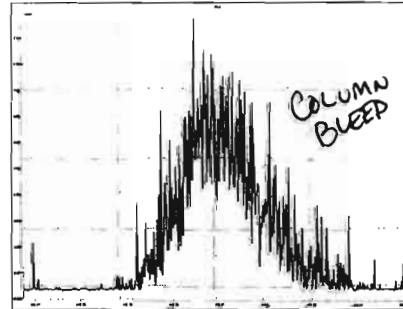
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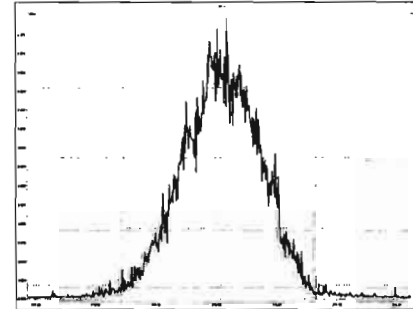
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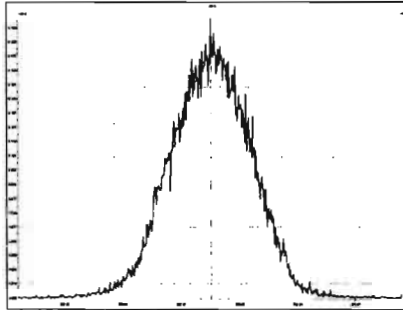


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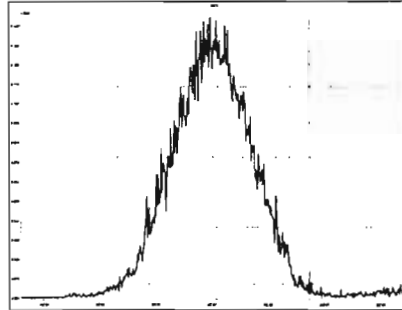


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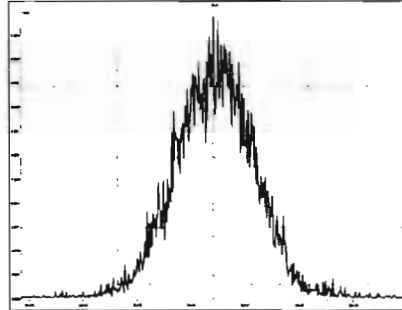
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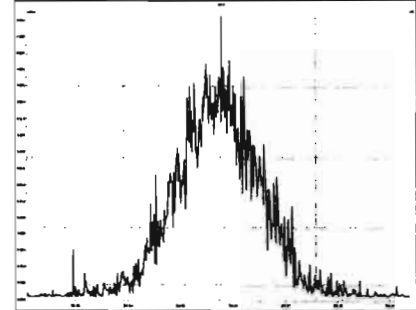
M 342.9792 R 10967



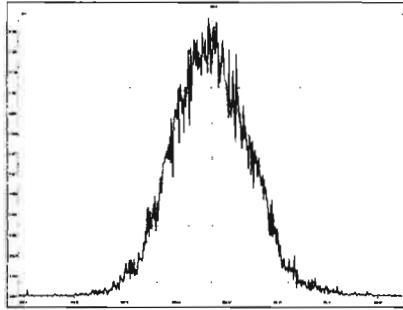
M 354.9792 R 10827



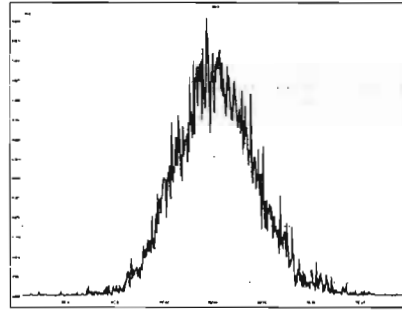
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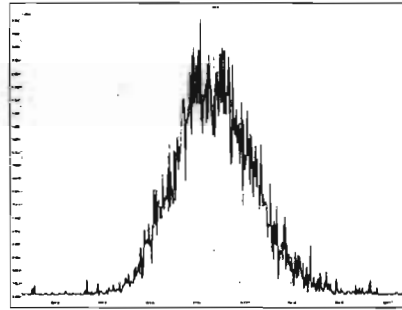
M 380.9760 R 10917



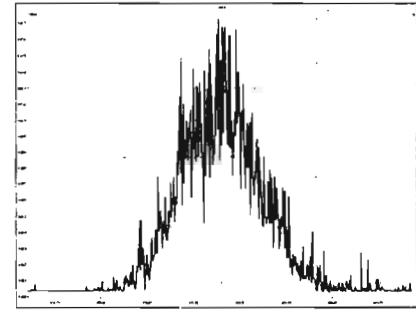
M 392.9760 R 11275



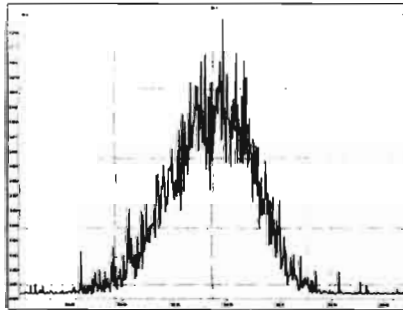
M 404.9760 R 10615



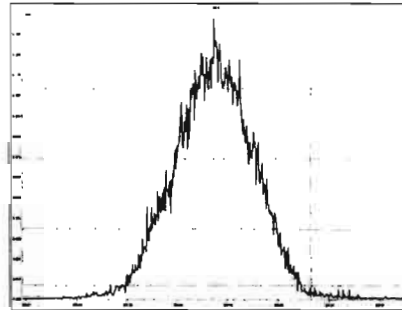
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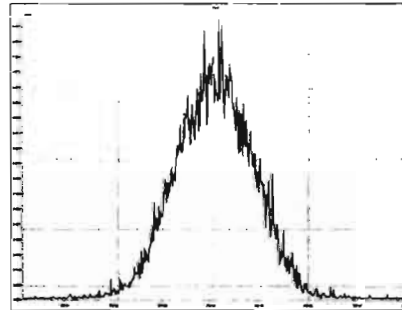
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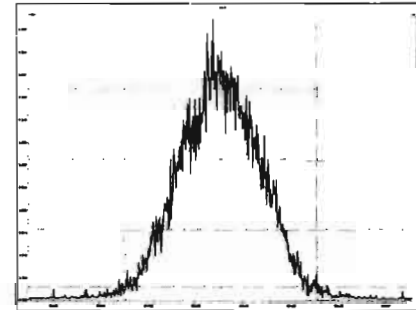
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M 392.9760 R 10930

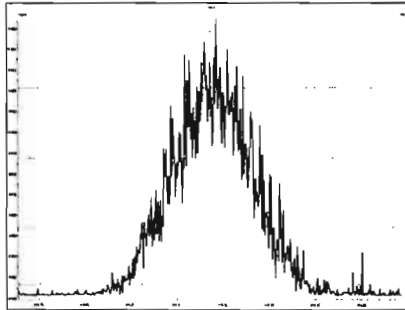


M 404.9760 R 11521

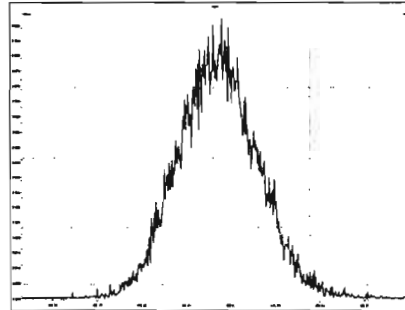


Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

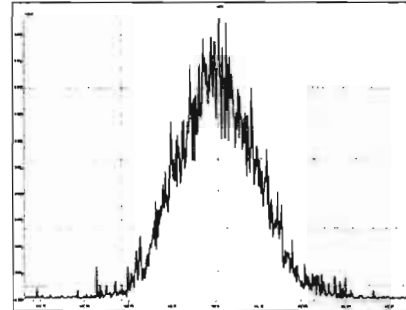
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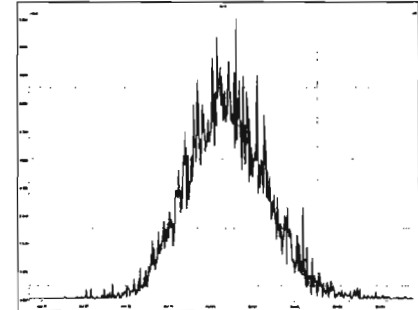
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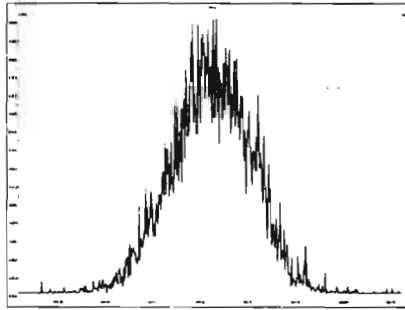
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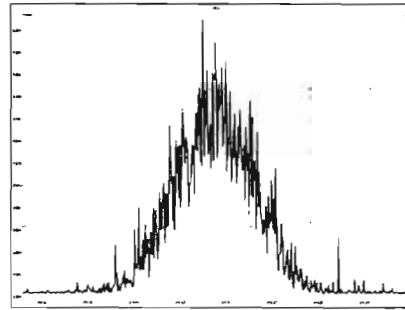
M 454.9728 R 11261



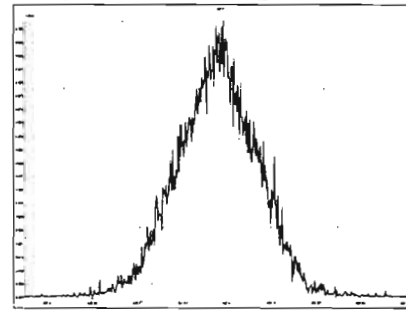
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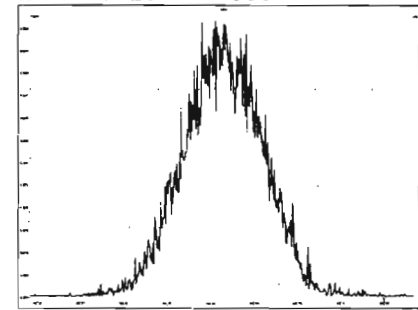
M 416.9760 R 10817



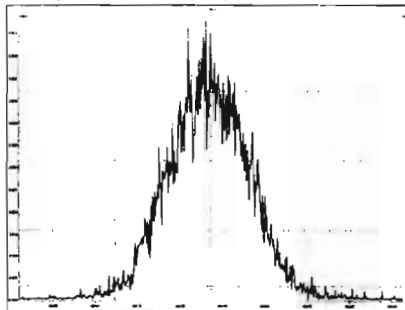
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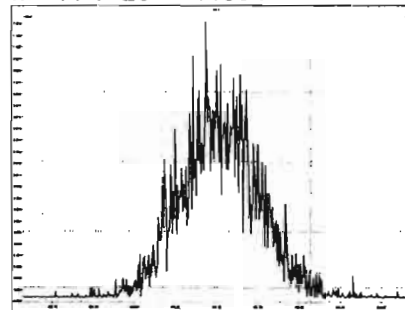
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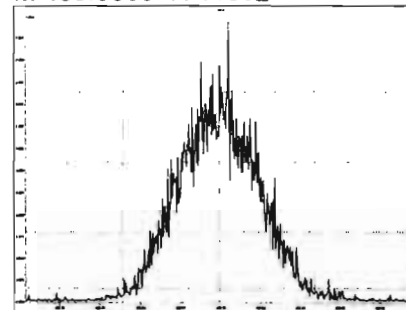
M 454.9728 R 11574



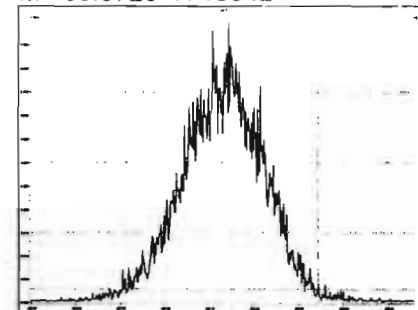
M 466.9728 R 11854



M 480.9696 R 11062

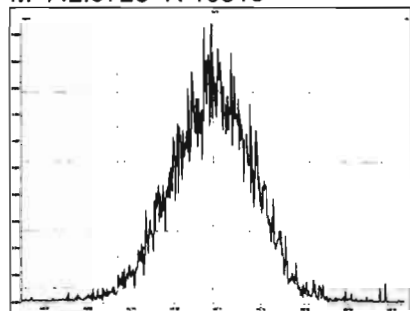


M 430.9728 R 10642

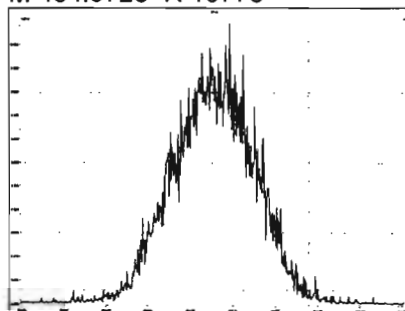


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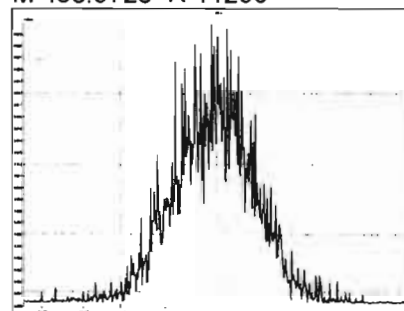
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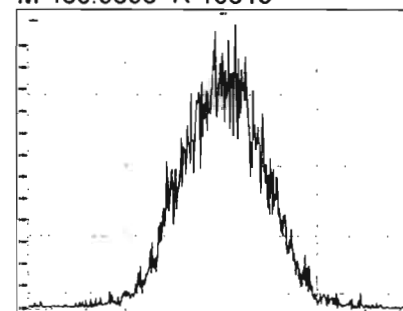
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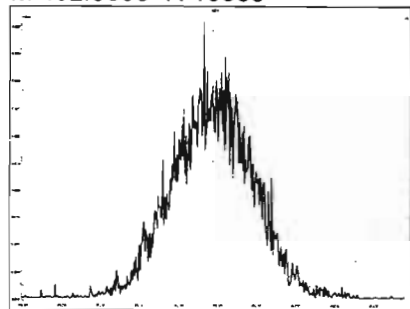
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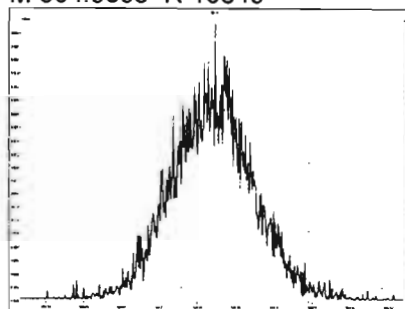
M 480.9696 R 10615



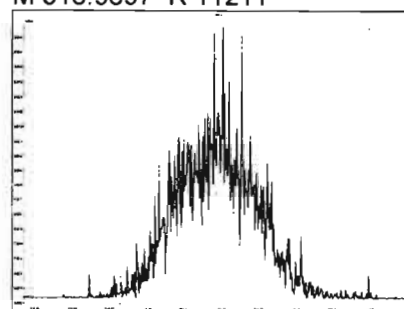
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M 504.9696 R 10849



M 516.9697 R 11211



Dataset: U:\VG12.PRO\Results\200131R1\200131R1-8.qld

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:24:45 AM Pacific Standard Time

GPB 02/02/2020

C7 02/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	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	1.56e5	0.77	NO	0.988	1.000	25.691	25.69	1.001	1.001	10.621	106	0.0312	10.6
2	2 1,2,3,7,8-PeCDD	6.38e5	0.61	NO	0.972	1.000	30.627	30.62	1.001	1.001	53.028	106	0.0615	53.0
3	3 1,2,3,4,7,8-HxCDD	5.69e5	1.22	NO	1.07	1.000	33.966	33.97	1.000	1.000	53.501	107	0.0848	53.5
4	4 1,2,3,6,7,8-HxCDD	6.05e5	1.23	NO	0.921	1.000	34.062	34.07	1.000	1.000	57.295	115	0.0864	57.3
5	5 1,2,3,7,8,9-HxCDD	5.57e5	1.21	NO	0.918	1.000	34.373	34.35	1.001	1.000	55.837	112	0.0961	55.8
6	6 1,2,3,4,6,7,8-HpCDD	4.04e5	1.06	NO	0.923	1.000	37.886	37.90	1.000	1.001	54.330	109	0.220	54.3
7	7 OCDD	7.74e5	0.92	NO	0.975	1.000	40.878	40.89	1.000	1.000	108.30	108	0.139	108
8	8 2,3,7,8-TCDF	1.73e5	0.74	NO	0.802	1.000	24.802	24.79	1.001	1.001	10.751	108	0.0280	10.8
9	9 1,2,3,7,8-PeCDF	9.70e5	1.53	NO	0.907	1.000	29.345	29.34	1.001	1.001	54.081	108	0.0886	54.1
10	10 2,3,4,7,8-PeCDF	1.11e6	1.53	NO	0.952	1.000	30.331	30.32	1.001	1.001	60.939	122	0.0845	60.9
11	11 1,2,3,4,7,8-HxCDF	5.97e5	1.15	NO	0.862	1.000	33.093	33.10	1.000	1.000	56.486	113	0.117	56.5
12	12 1,2,3,6,7,8-HxCDF	6.65e5	1.16	NO	0.841	1.000	33.220	33.22	1.000	1.000	55.919	112	0.104	55.9
13	13 2,3,4,6,7,8-HxCDF	5.96e5	1.17	NO	0.898	1.000	33.819	33.81	1.001	1.001	53.809	108	0.119	53.8
14	14 1,2,3,7,8,9-HxCDF	4.82e5	1.16	NO	0.858	1.000	34.690	34.71	1.000	1.001	54.259	109	0.175	54.3
15	15 1,2,3,4,6,7,8-HpCDF	4.07e5	0.95	NO	0.851	1.000	36.473	36.45	1.001	1.000	56.639	113	0.174	56.6
16	16 1,2,3,4,7,8,9-HpCDF	3.25e5	0.98	NO	0.980	1.000	38.471	38.48	1.000	1.000	55.517	111	0.189	55.5
17	17 OCDF	7.18e5	0.86	NO	0.806	1.000	41.070	41.08	1.000	1.000	105.51	106	0.148	106
18	18 13C-2,3,7,8-TCDD	1.49e6	0.78	NO	1.20	1.000	25.660	25.66	1.026	1.026	92.060	92.1	0.106	
19	19 13C-1,2,3,7,8-PeCDD	1.24e6	0.64	NO	0.967	1.000	30.395	30.61	1.215	1.223	95.149	95.1	0.134	
20	20 13C-1,2,3,4,7,8-HxCDD	9.93e5	1.27	NO	0.874	1.000	33.955	33.96	1.014	1.014	87.678	87.7	0.159	
21	21 13C-1,2,3,6,7,8-HxCDD	1.15e6	1.25	NO	1.05	1.000	34.056	34.06	1.017	1.017	84.618	84.6	0.133	
22	22 13C-1,2,3,7,8,9-HxCDD	1.09e6	1.25	NO	0.974	1.000	34.357	34.34	1.026	1.025	86.118	86.1	0.143	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.06e5	1.06	NO	0.747	1.000	37.907	37.87	1.132	1.131	83.254	83.3	0.245	
24	24 13C-OCDD	1.47e6	0.89	NO	0.707	1.000	40.787	40.88	1.218	1.221	160.15	80.1	0.173	
25	25 13C-2,3,7,8-TCDF	2.01e6	0.78	NO	1.07	1.000	24.842	24.78	0.993	0.990	91.210	91.2	0.143	
26	26 13C-1,2,3,7,8-PeCDF	1.98e6	1.58	NO	1.00	1.000	29.170	29.32	1.166	1.172	95.322	95.3	0.190	
27	27 13C-2,3,4,7,8-PeCDF	1.91e6	1.60	NO	0.962	1.000	30.120	30.30	1.204	1.211	96.164	96.2	0.198	
28	28 13C-1,2,3,4,7,8-HxCDF	1.23e6	0.52	NO	1.05	1.000	33.085	33.09	0.988	0.988	90.119	90.1	0.194	
29	29 13C-1,2,3,6,7,8-HxCDF	1.41e6	0.50	NO	1.19	1.000	33.185	33.21	0.991	0.992	91.687	91.7	0.171	
30	30 13C-2,3,4,6,7,8-HxCDF	1.23e6	0.51	NO	1.07	1.000	33.791	33.78	1.009	1.009	89.274	89.3	0.190	
31	31 13C-1,2,3,7,8,9-HxCDF	1.04e6	0.51	NO	0.922	1.000	34.692	34.69	1.036	1.036	86.700	86.7	0.220	

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-8.qld

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:24:45 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	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	8.43e5	0.43	NO	0.767	1.000	36.433	36.44	1.088	1.088	84.846	84.8	0.232	
33	13C-1,2,3,4,7,8,9-HpCDF	5.98e5	0.43	NO	0.552	1.000	38.443	38.47	1.148	1.149	83.515	83.5	0.322	
34	13C-OCDF	1.69e6	0.90	NO	0.789	1.000	41.021	41.07	1.225	1.226	165.15	82.6	0.137	
35	37Cl-2,3,7,8-TCDD	1.57e5			1.18	1.000	25.692	25.69	1.027	1.027	9.9110	99.1	0.0232	
36	13C-1,2,3,4-TCDD	1.35e6	0.81	NO	1.00	1.000	25.080	25.02	1.000	1.000	100.00	100	0.128	
37	13C-1,2,3,4-TCDF	2.07e6	0.79	NO	1.00	1.000	23.420	23.36	1.000	1.000	100.00	100	0.152	
38	13C-1,2,3,4,6,9-HxCDF	1.30e6	0.51	NO	1.00	1.000	33.520	33.49	1.000	1.000	100.00	100	0.203	

Dataset: Untitled

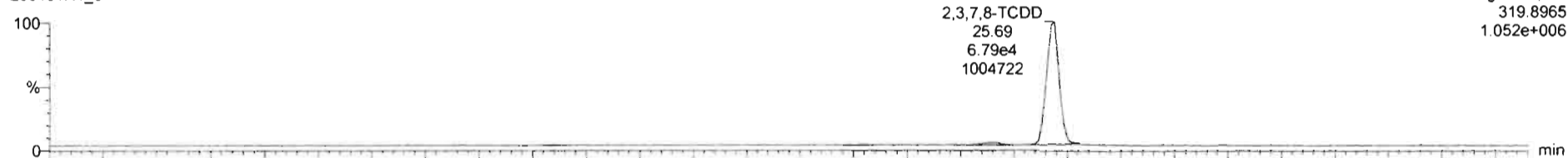
Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

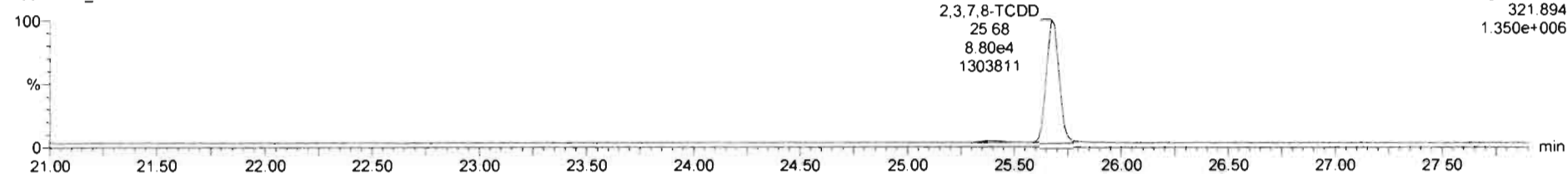
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDD

200131R1_8

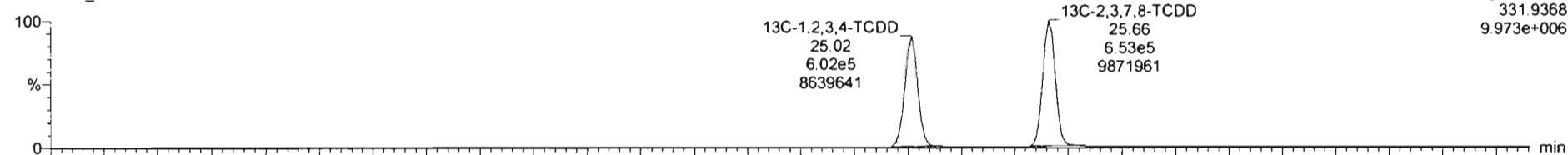


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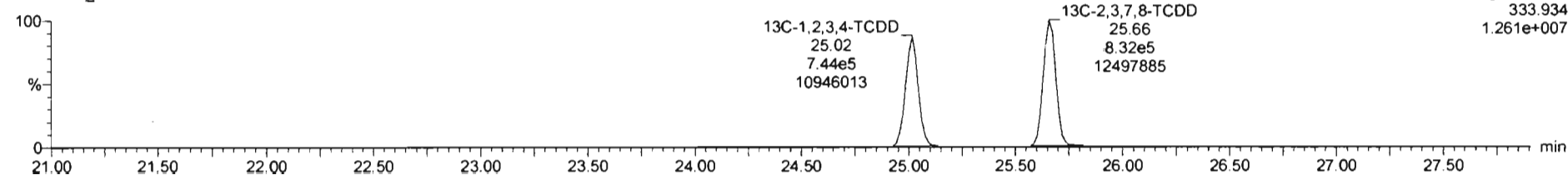


13C-2,3,7,8-TCDD

200131R1_8



200131R1_8



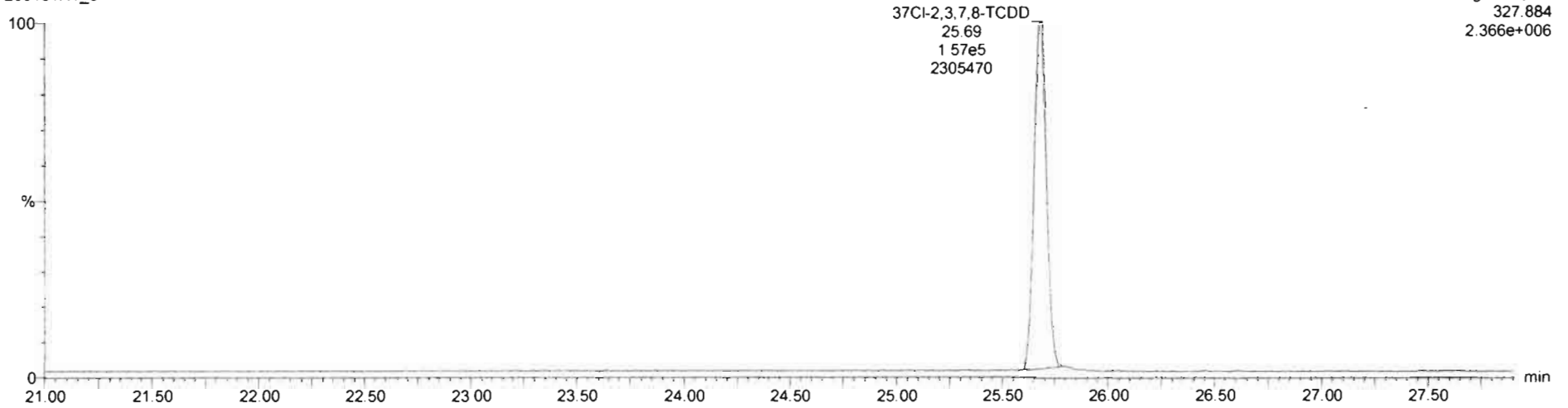
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Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

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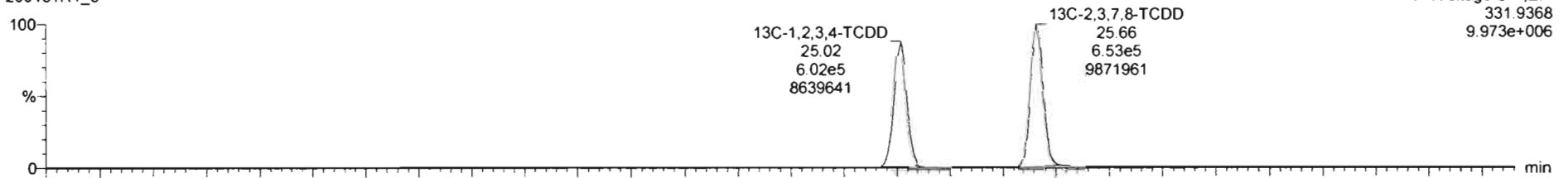
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200131R1_8

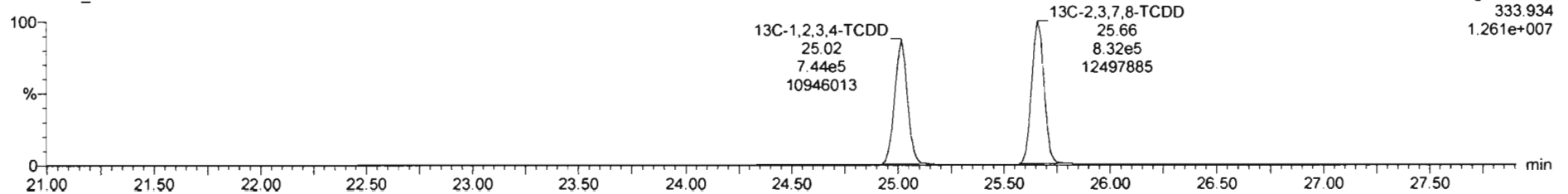


13C-1,2,3,4-TCDD

200131R1_8



200131R1_8



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Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
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Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1,2,3,7,8-PeCDD

200131R1_8

1,2,3,7,8-PeCDD
30.62
2.43e5
4890309

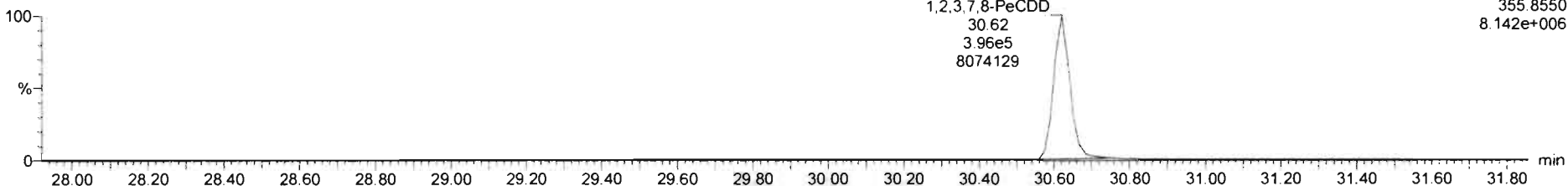
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353.8576
4.955e+006



200131R1_8

1,2,3,7,8-PeCDD
30.62
3.96e5
8074129

F2:Voltage SIR,EI+
355.8550
8.142e+006

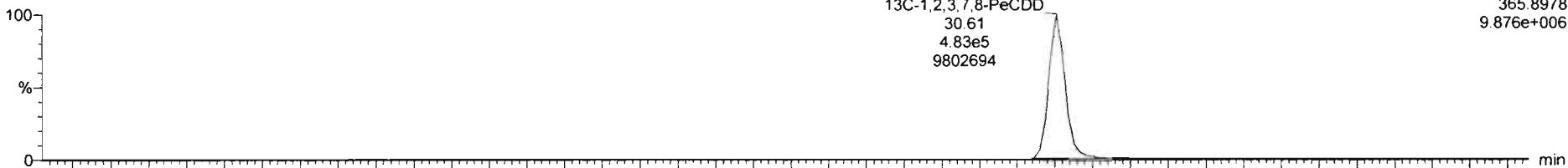


13C-1,2,3,7,8-PeCDD

200131R1_8

13C-1,2,3,7,8-PeCDD
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9802694

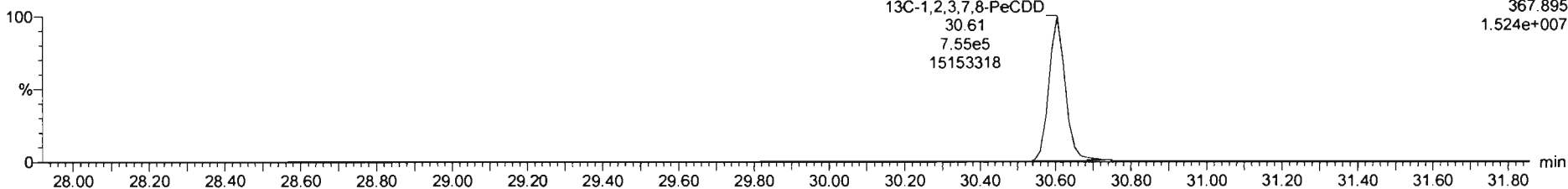
F2:Voltage SIR,EI+
365.8978
9.876e+006



200131R1_8

13C-1,2,3,7,8-PeCDD
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15153318

F2:Voltage SIR,EI+
367.895
1.524e+007



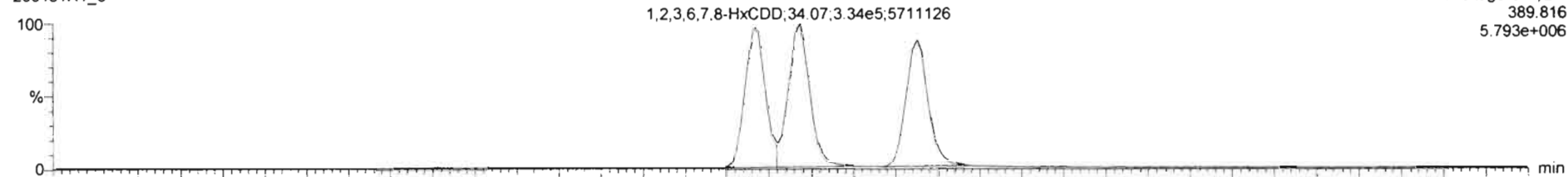
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Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

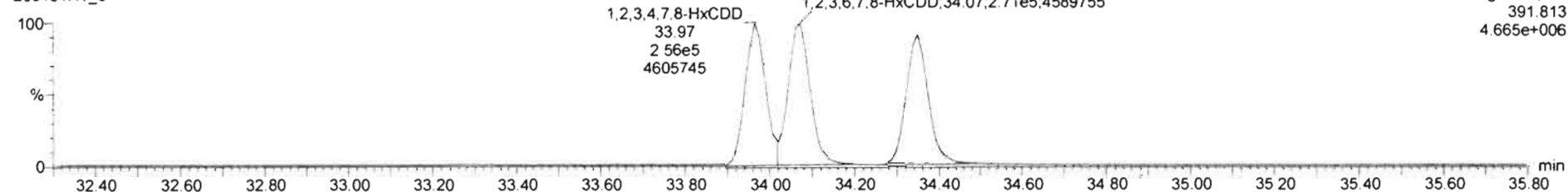
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1,2,3,4,7,8-HxCDD

200131R1_8

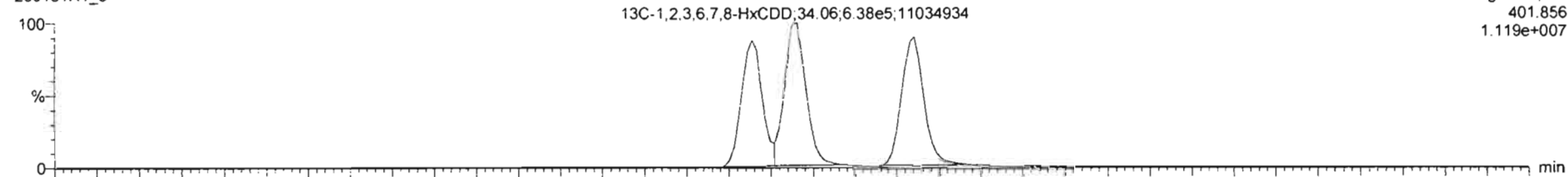


200131R1_8

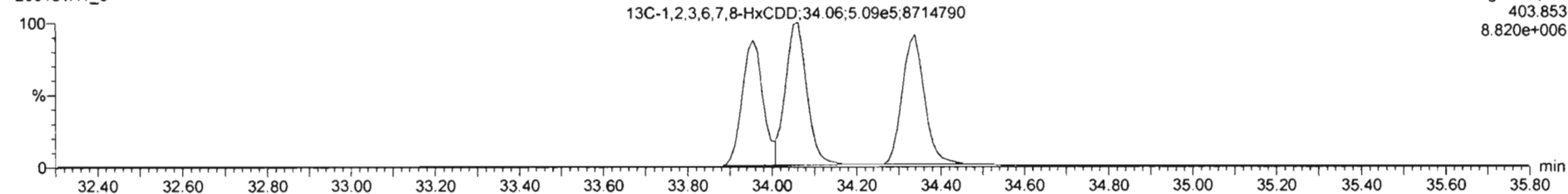


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200131R1_8



200131R1_8



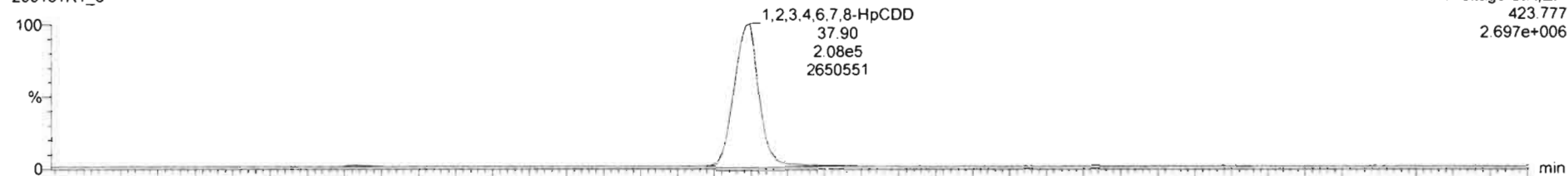
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Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

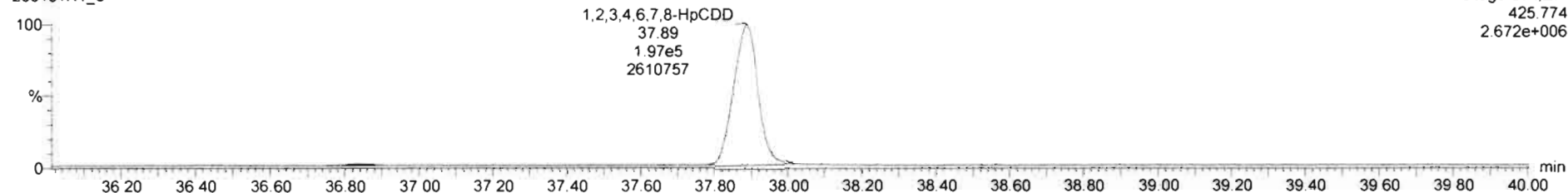
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200131R1_8

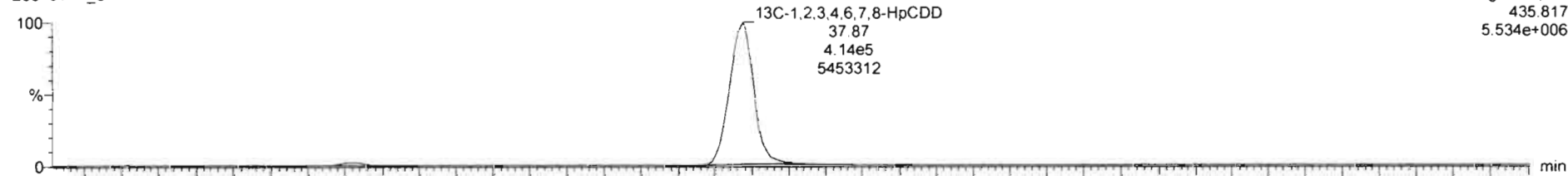


200131R1_8

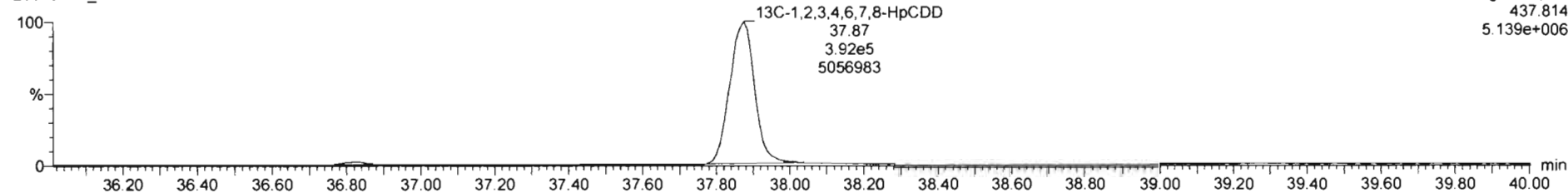


¹³C-1,2,3,4,6,7,8-HpCDD

200131R1_8



200131R1_8



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

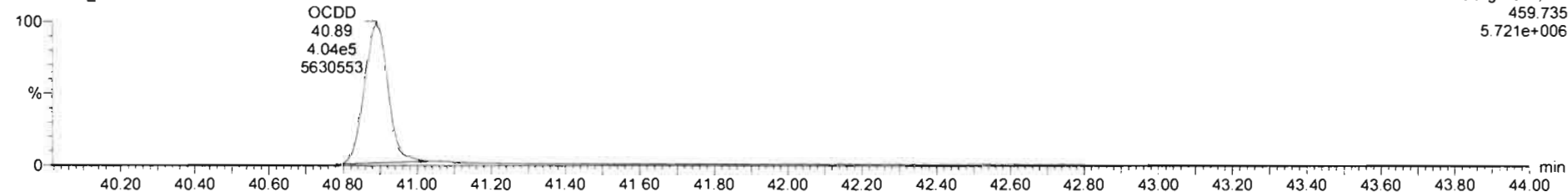
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OCDD

200131R1_8

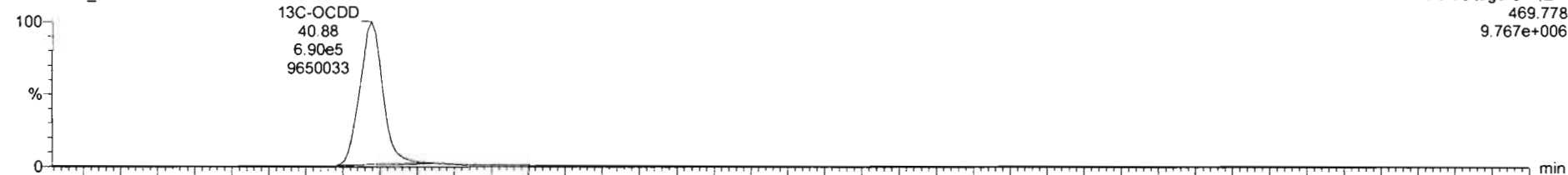


200131R1_8

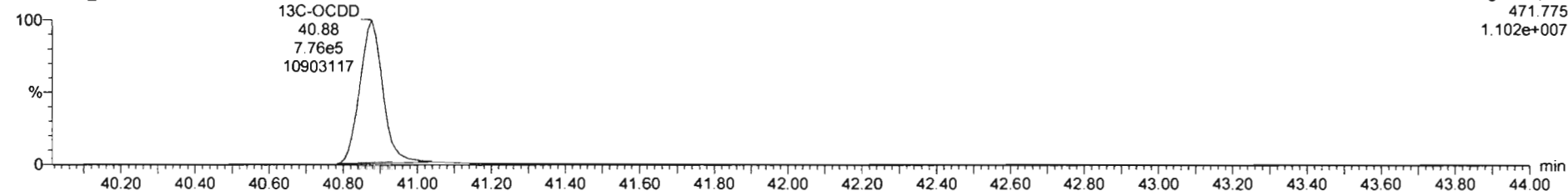


13C-OCDD

200131R1_8



200131R1_8



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

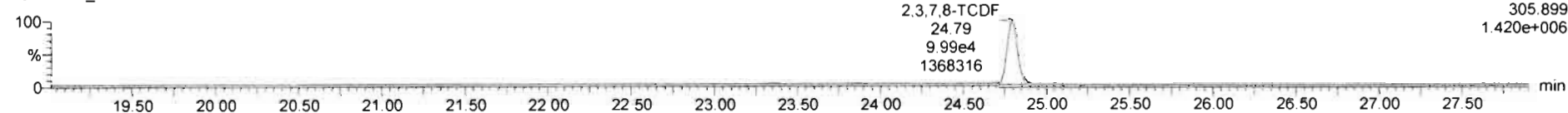
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDF

200131R1_8

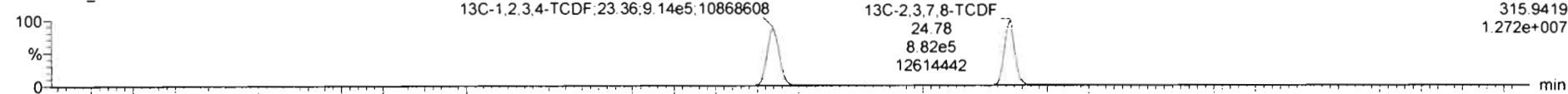


200131R1_8

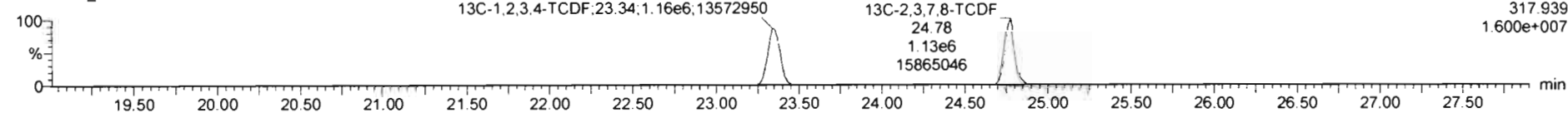


13C-2,3,7,8-TCDF

200131R1_8

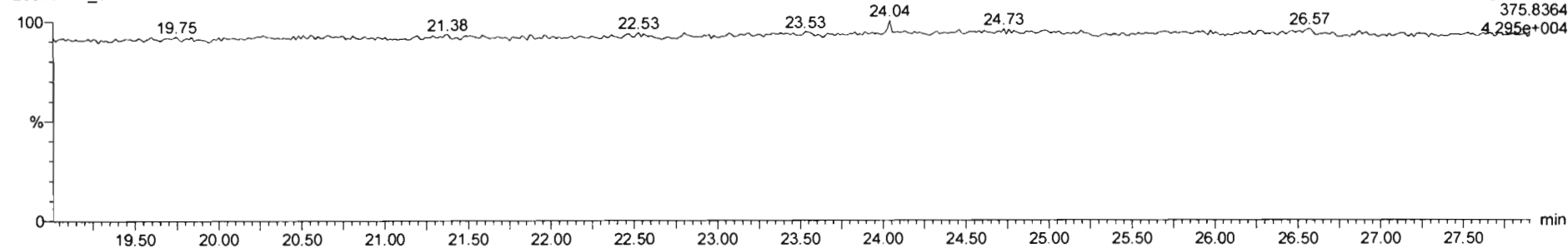


200131R1_8



DPE1

200131R1_8



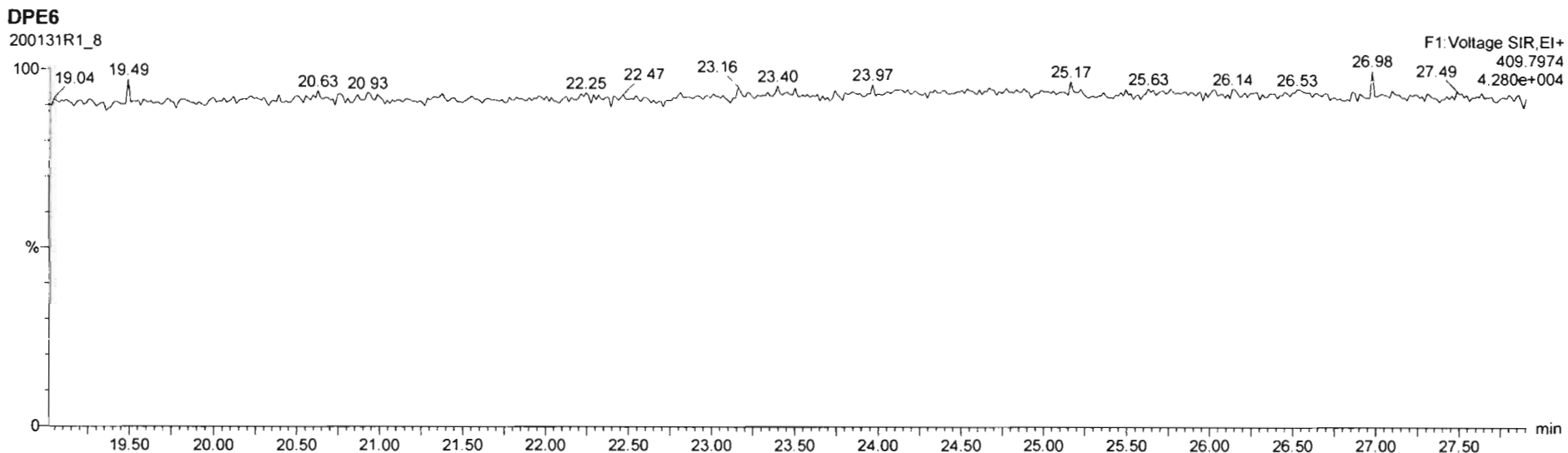
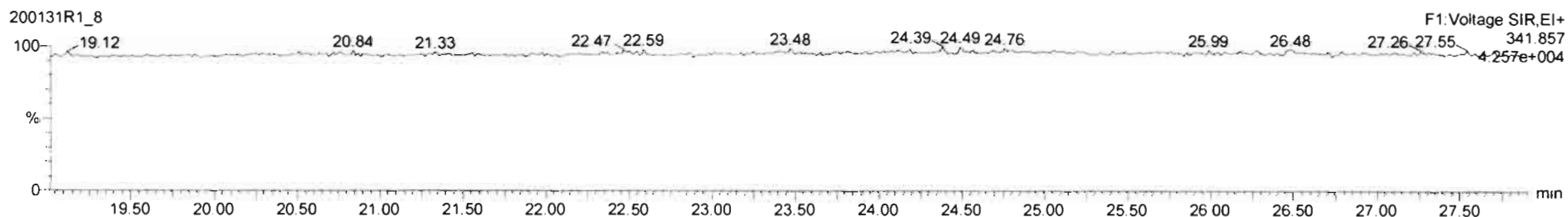
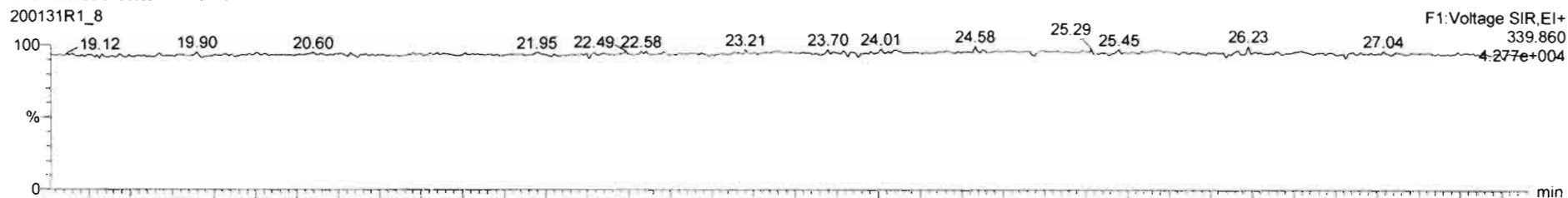
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1st Func. Penta-Furans



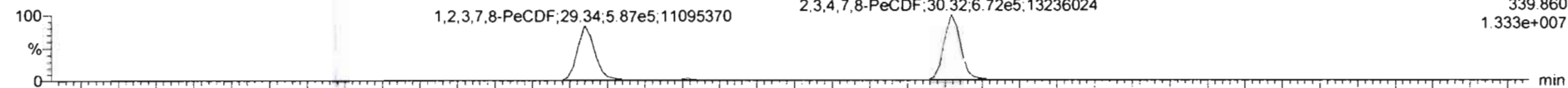
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

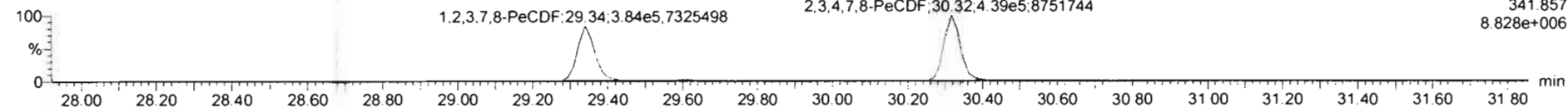
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1,2,3,7,8-PeCDF

200131R1_8

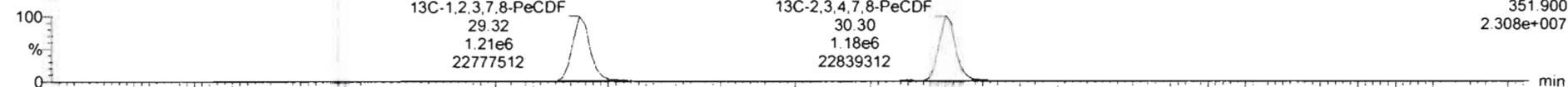


200131R1_8

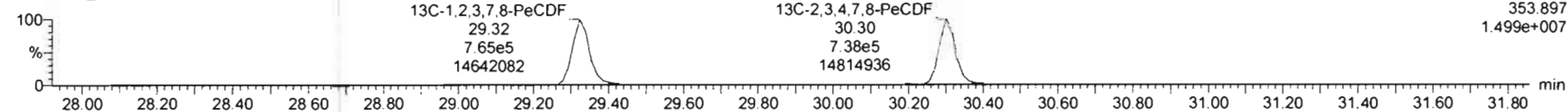


13C-1,2,3,7,8-PeCDF

200131R1_8

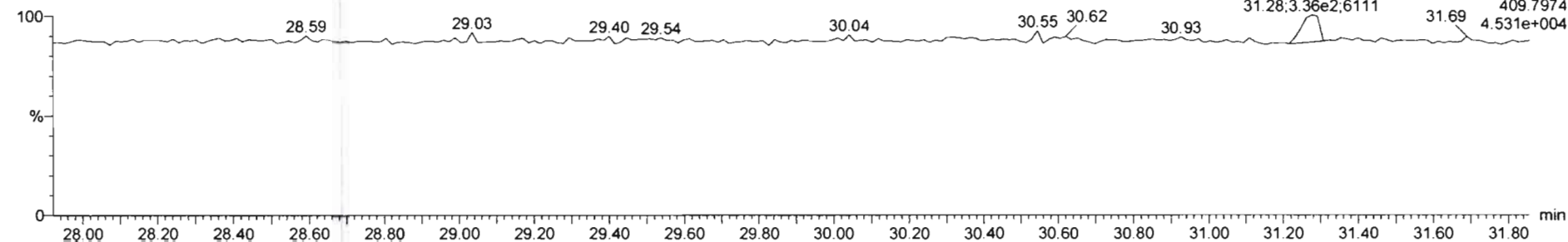


200131R1_8



DPE2

200131R1_8



Dataset: Untitled

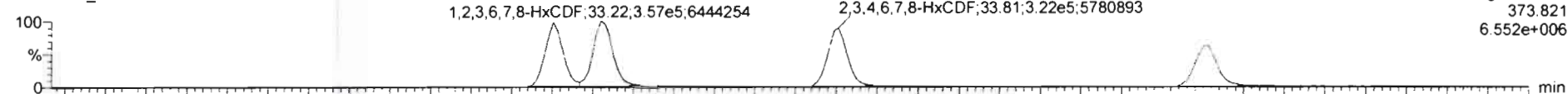
Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

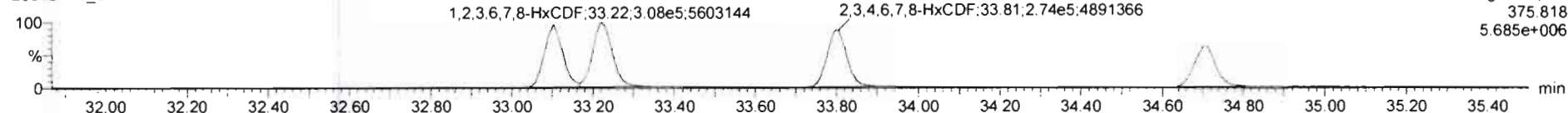
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200131R1_8

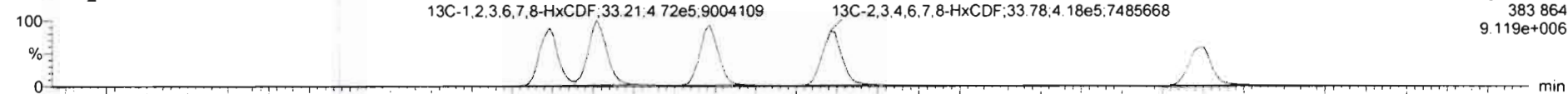


200131R1_8

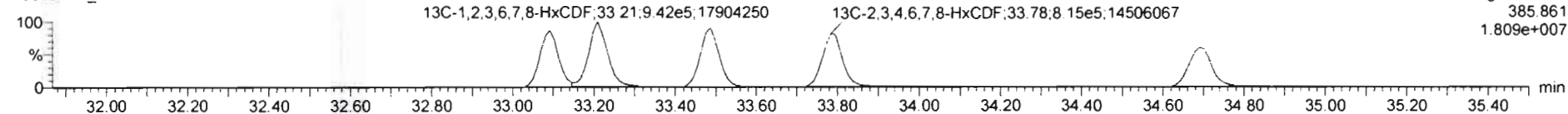


13C-1,2,3,4,7,8-HxCDF

200131R1_8

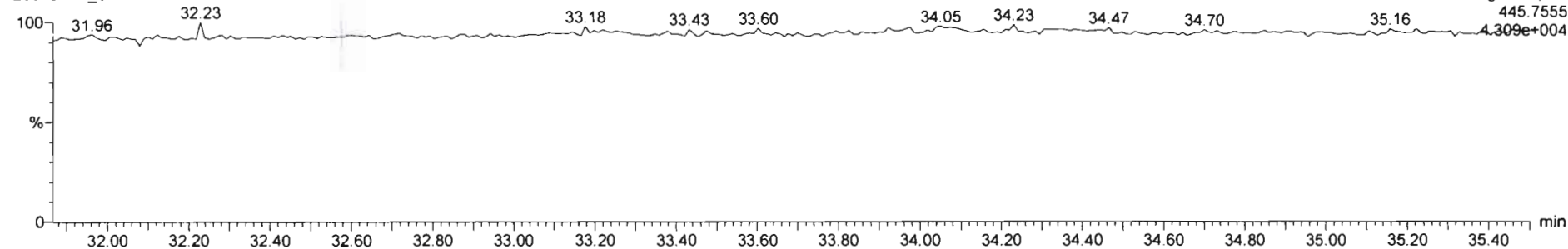


200131R1_8



DPE3

200131R1_8



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

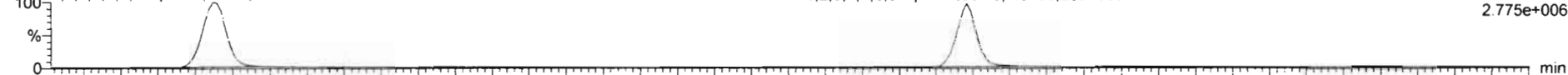
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200131R1_8

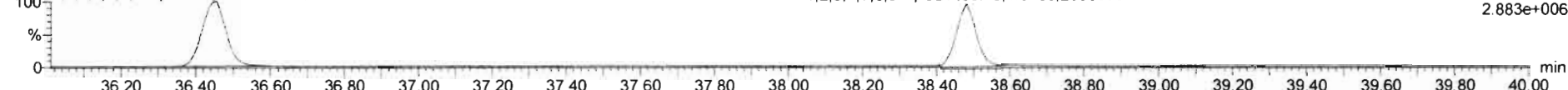
1,2,3,4,6,7,8-HpCDF;36.45;1.98e5;2717122



F4: Voltage SIR, EI+
407.782
2.775e+006

200131R1_8

1,2,3,4,6,7,8-HpCDF;36.45;2.08e5;2828787

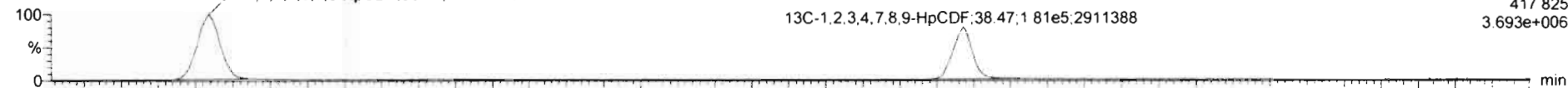


F4: Voltage SIR, EI+
409.779
2.883e+006

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

200131R1_8

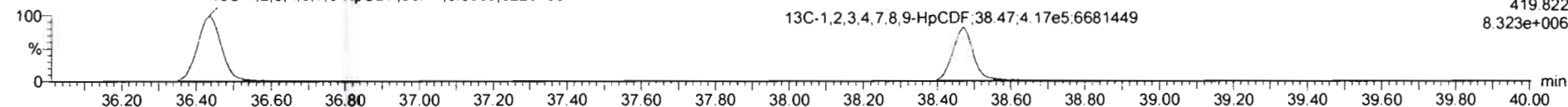
13C-1,2,3,4,6,7,8-HpCDF;36.44;2.54e5;3622240



F4: Voltage SIR, EI+
417.825
3.693e+006

200131R1_8

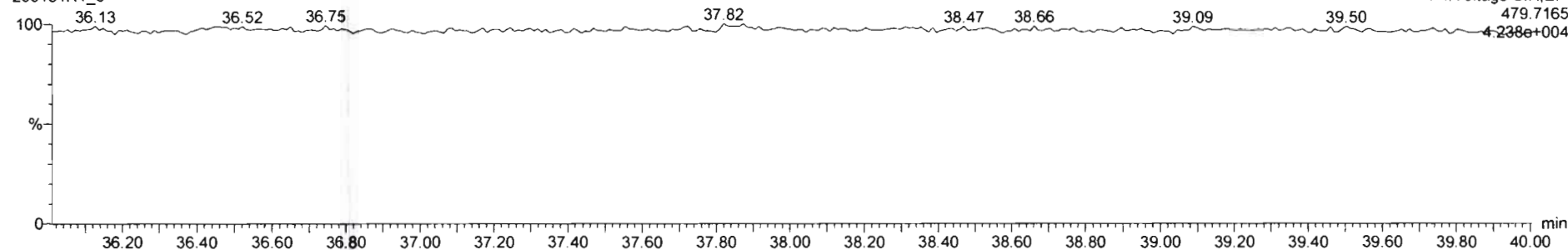
13C-1,2,3,4,6,7,8-HpCDF;36.44;5.89e5;8220130



F4: Voltage SIR, EI+
419.822
8.323e+006

DPE4

200131R1_8

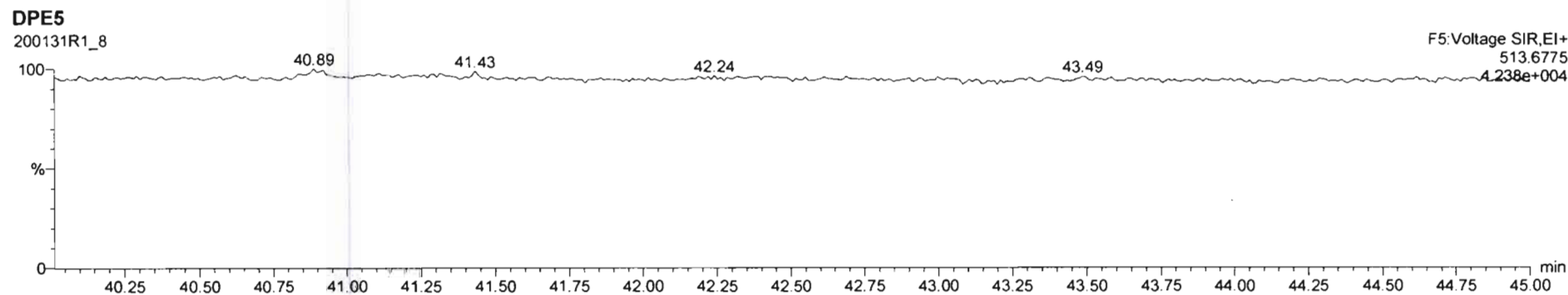
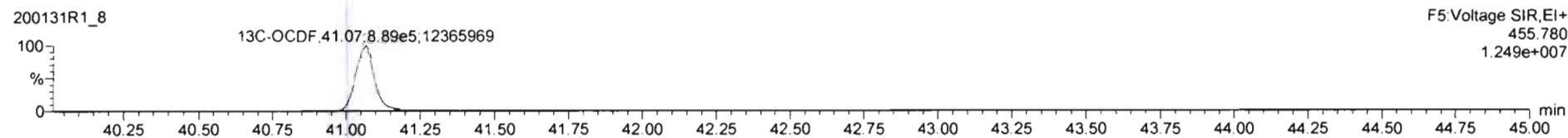
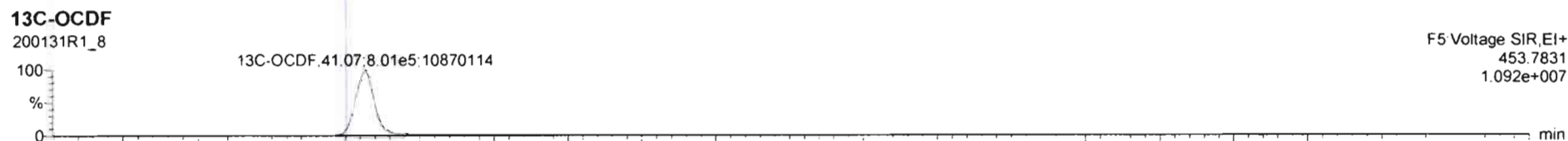
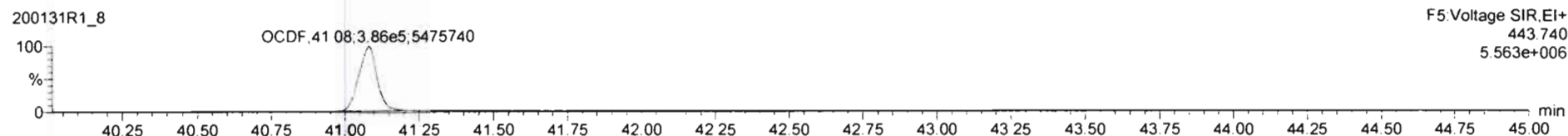
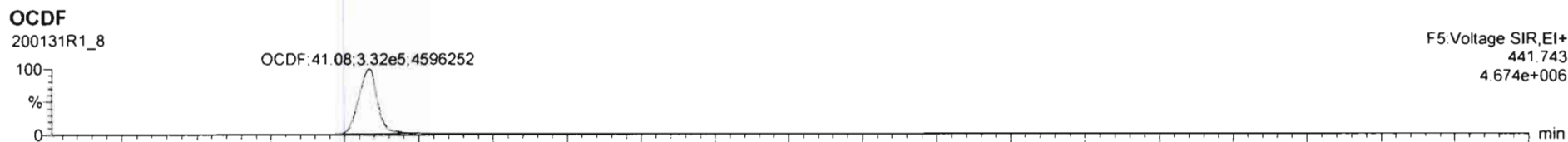


F4: Voltage SIR, EI+
479.7165
4.238e+004

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

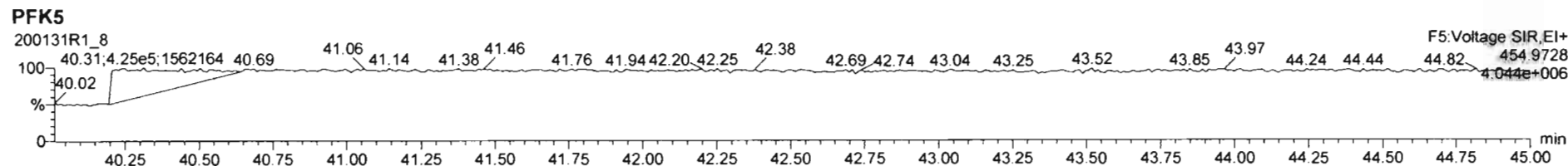
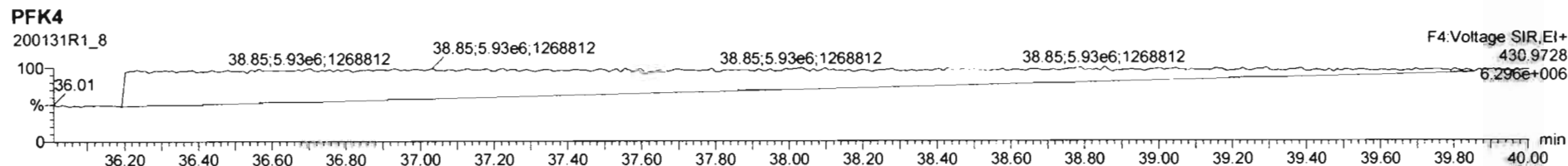
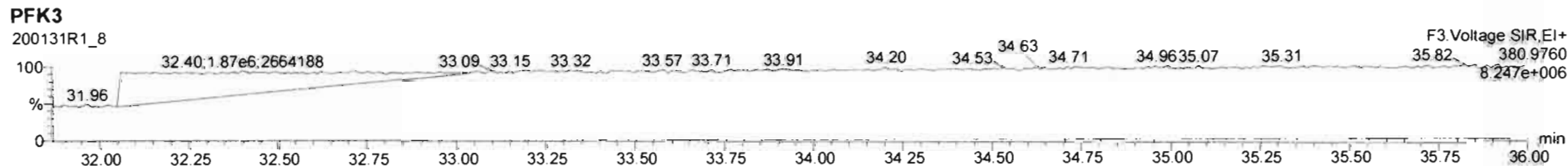
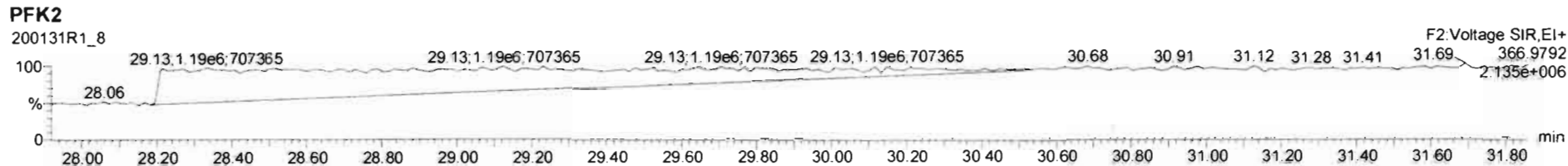
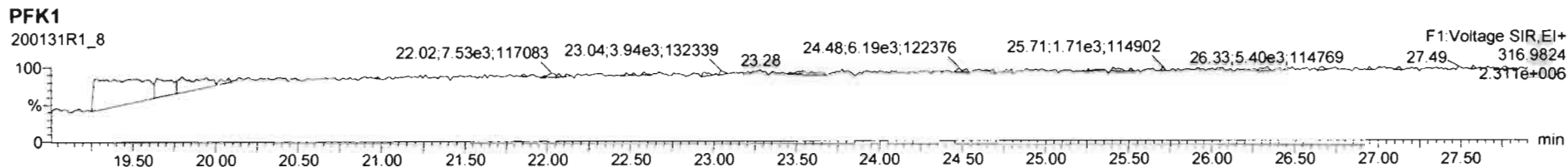


Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

GRB 03/09/2020

C1 03/09/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 11:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

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

Response Factor: 0.983462

RRF SD: 0.0620764, Relative SD: 6.31202

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	200306R2_1	0.250	0.88	NO	25.83	1.001	2.55e3	1.02e6	0.255	1.8	1.00	MM
2	200306R2_2	0.500	0.79	NO	25.80	1.001	5.56e3	1.04e6	0.545	9.0	1.07	bb
3	200306R2_3	2.00	0.77	NO	25.81	1.001	2.04e4	9.83e5	2.11	5.3	1.04	bb
4	200306R2_4	10.0	0.80	NO	25.81	1.001	1.07e5	1.15e6	9.48	-5.2	0.933	db
5	200306R2_5	40.0	0.77	NO	25.80	1.001	4.79e5	1.30e6	37.6	-5.9	0.925	bb
6	200306R2_6	300	0.79	NO	25.80	1.001	3.75e6	1.34e6	285	-5.0	0.934	bb

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

Response Factor: 0.921241

RRF SD: 0.0620739, Relative SD: 6.73807

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	200306R2_1	1.25	0.68	NO	31.00	1.000	7.57e3	7.13e5	1.15	-7.8	0.849	MM
2	200306R2_2	2.50	0.65	NO	30.97	1.000	1.74e4	6.98e5	2.70	8.2	0.996	bb
3	200306R2_3	10.0	0.68	NO	30.99	1.000	6.63e4	6.63e5	10.8	8.5	0.999	bb
4	200306R2_4	50.0	0.63	NO	30.99	1.000	3.98e5	9.00e5	48.0	-4.0	0.884	bb
5	200306R2_5	200	0.63	NO	30.99	1.000	1.71e6	9.49e5	195	-2.4	0.899	bb
6	200306R2_6	1500	0.63	NO	30.99	1.000	1.46e7	1.08e6	1460	-2.3	0.900	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

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

Response Factor: 1.13254

RRF SD: 0.050207, Relative SD: 4.43315

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	200306R2_1	1.25	1.29	NO	34.40	1.001	7.33e3	5.37e5	1.21	-3.6	1.09	bd
2	200306R2_2	2.50	1.25	NO	34.37	1.001	1.58e4	5.23e5	2.66	6.4	1.21	bd
3	200306R2_3	10.0	1.25	NO	34.37	1.000	5.85e4	4.95e5	10.4	4.4	1.18	bd
4	200306R2_4	50.0	1.24	NO	34.38	1.001	3.69e5	6.79e5	48.0	-4.0	1.09	bd
5	200306R2_5	200	1.24	NO	34.37	1.000	1.50e6	6.81e5	194	-3.0	1.10	bd
6	200306R2_6	1500	1.24	NO	34.38	1.000	1.42e7	8.39e5	1500	-0.3	1.13	bd

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

Response Factor: 0.984449

RRF SD: 0.0570908, Relative SD: 5.79927

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	200306R2_1	1.25	1.21	NO	34.49	1.000	7.49e3	6.23e5	1.22	-2.3	0.961	MM
2	200306R2_2	2.50	1.23	NO	34.47	1.000	1.71e4	6.45e5	2.69	7.8	1.06	db
3	200306R2_3	10.0	1.24	NO	34.48	1.000	6.35e4	6.06e5	10.6	6.4	1.05	db
4	200306R2_4	50.0	1.26	NO	34.48	1.000	3.94e5	8.29e5	48.3	-3.4	0.951	db
5	200306R2_5	200	1.25	NO	34.47	1.000	1.68e6	8.67e5	197	-1.6	0.969	db
6	200306R2_6	1500	1.24	NO	34.49	1.001	1.45e7	1.05e6	1400	-6.8	0.917	db

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

Response Factor: 0.967395

RRF SD: 0.0672904, Relative SD: 6.95583

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	200306R2_1	1.25	1.19	NO	34.76	1.000	6.08e3	5.57e5	1.13	-9.9	0.872	MM
2	200306R2_2	2.50	1.24	NO	34.74	1.001	1.51e4	5.80e5	2.70	7.9	1.04	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 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	200306R2_3	10.0	1.23	NO	34.74	1.000	5.71e4	5.46e5	10.8	8.1	1.05	bb
4	200306R2_4	50.0	1.23	NO	34.74	1.000	3.51e5	7.47e5	48.6	-2.9	0.940	bb
5	200306R2_5	200	1.25	NO	34.74	1.000	1.47e6	7.83e5	194	-2.8	0.940	bb
6	200306R2_6	1500	1.23	NO	34.75	1.000	1.34e7	9.31e5	1490	-0.5	0.963	bb

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

Response Factor: 1.00606

RRF SD: 0.0598777, Relative SD: 5.95172

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	200306R2_1	1.25	1.04	NO	38.23	1.000	4.50e3	3.74e5	1.19	-4.5	0.960	MM
2	200306R2_2	2.50	1.03	NO	38.17	1.000	1.17e4	4.34e5	2.69	7.6	1.08	bb
3	200306R2_3	10.0	1.02	NO	38.18	1.000	4.15e4	3.84e5	10.7	7.4	1.08	bb
4	200306R2_4	50.0	1.03	NO	38.21	1.000	2.63e5	5.52e5	47.4	-5.1	0.954	bb
5	200306R2_5	200	1.04	NO	38.21	1.001	1.14e6	5.89e5	192	-3.9	0.967	bb
6	200306R2_6	1500	1.03	NO	38.22	1.001	9.92e6	6.67e5	1480	-1.4	0.992	bb

Compound name: OCDD

Response Factor: 1.05145

RRF SD: 0.114587, Relative SD: 10.898

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	200306R2_1	2.50	0.84	NO	41.25	1.000	1.06e4	7.05e5	2.86	14.2	1.20	MM
2	200306R2_2	5.00	0.98	NO	41.22	1.000	2.24e4	7.62e5	5.60	12.0	1.18	MM
3	200306R2_3	20.0	0.87	NO	41.23	1.000	7.58e4	7.16e5	20.1	0.7	1.06	bb
4	200306R2_4	100	0.90	NO	41.23	1.000	4.62e5	9.75e5	90.2	-9.8	0.948	bb
5	200306R2_5	400	0.89	NO	41.22	1.000	2.22e6	1.17e6	360	-10.0	0.946	bb
6	200306R2_6	3000	0.89	NO	41.24	1.000	2.08e7	1.42e6	2790	-7.1	0.977	MM

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

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

Response Factor: 0.915401

RRF SD: 0.0583768, Relative SD: 6.37719

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	200306R2_1	0.250	0.84	NO	24.87	1.001	3.09e3	1.43e6	0.235	-5.9	0.861	MM
2	200306R2_2	0.500	0.78	NO	24.82	1.001	7.23e3	1.45e6	0.546	9.2	1.00	bb
3	200306R2_3	2.00	0.78	NO	24.82	1.001	2.69e4	1.38e6	2.14	6.8	0.978	bb
4	200306R2_4	10.0	0.77	NO	24.84	1.001	1.28e5	1.46e6	9.56	-4.4	0.875	bb
5	200306R2_5	40.0	0.77	NO	24.82	1.001	6.19e5	1.74e6	38.8	-3.1	0.887	bb
6	200306R2_6	300	0.77	NO	24.82	1.001	4.83e6	1.81e6	292	-2.7	0.891	bb

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

Response Factor: 0.959427

RRF SD: 0.0433152, Relative SD: 4.51469

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	200306R2_1	1.25	1.49	NO	29.68	1.000	1.28e4	1.13e6	1.18	-5.5	0.906	MM
2	200306R2_2	2.50	1.64	NO	29.63	1.000	2.70e4	1.07e6	2.63	5.3	1.01	bb
3	200306R2_3	10.0	1.54	NO	29.65	1.000	1.01e5	9.93e5	10.6	5.7	1.01	MM
4	200306R2_4	50.0	1.55	NO	29.66	1.001	6.19e5	1.30e6	49.4	-1.1	0.948	bb
5	200306R2_5	200	1.56	NO	29.65	1.000	2.60e6	1.38e6	196	-1.9	0.941	bb
6	200306R2_6	1500	1.53	NO	29.66	1.000	2.21e7	1.58e6	1460	-2.4	0.936	bb

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

Response Factor: 1.00349

RRF SD: 0.0546018, Relative SD: 5.44122

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	200306R2_1	1.25	1.61	NO	30.70	1.000	1.23e4	1.05e6	1.17	-6.4	0.940	MM
2	200306R2_2	2.50	1.54	NO	30.65	1.000	2.75e4	1.02e6	2.70	8.1	1.08	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	200306R2_3	10.0	1.56	NO	30.67	1.000	1.02e5	9.68e5	10.5	5.1	1.05	bb
4	200306R2_4	50.0	1.58	NO	30.67	1.000	6.26e5	1.27e6	49.3	-1.4	0.990	bb
5	200306R2_5	200	1.54	NO	30.67	1.000	2.65e6	1.36e6	195	-2.6	0.978	bb
6	200306R2_6	1500	1.53	NO	30.68	1.000	2.24e7	1.53e6	1460	-2.8	0.975	bb

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

Response Factor: 1.03807
 RRF SD: 0.0538106, Relative SD: 5.18374
 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	200306R2_1	1.25	1.12	NO	33.54	1.001	8.84e3	7.10e5	1.20	-4.0	0.996	bd
2	200306R2_2	2.50	1.19	NO	33.51	1.000	1.92e4	6.91e5	2.68	7.2	1.11	bd
3	200306R2_3	10.0	1.26	NO	33.52	1.000	7.18e4	6.52e5	10.6	6.1	1.10	bd
4	200306R2_4	50.0	1.23	NO	33.52	1.000	4.56e5	8.98e5	48.9	-2.2	1.02	dd
5	200306R2_5	200	1.22	NO	33.52	1.001	1.87e6	9.40e5	192	-4.1	0.996	bd
6	200306R2_6	1500	1.22	NO	33.53	1.001	1.65e7	1.09e6	1460	-2.9	1.01	bd

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

Response Factor: 1.0126
 RRF SD: 0.0619783, Relative SD: 6.12071
 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	200306R2_1	1.25	1.20	NO	33.66	1.000	9.19e3	7.80e5	1.16	-6.9	0.943	db
2	200306R2_2	2.50	1.27	NO	33.63	1.000	2.08e4	7.71e5	2.66	6.4	1.08	db
3	200306R2_3	10.0	1.18	NO	33.64	1.000	7.95e4	7.22e5	10.9	8.7	1.10	db
4	200306R2_4	50.0	1.22	NO	33.64	1.000	4.93e5	1.01e6	48.1	-3.7	0.975	db
5	200306R2_5	200	1.22	NO	33.64	1.001	2.10e6	1.05e6	196	-1.8	0.994	db
6	200306R2_6	1500	1.22	NO	33.65	1.000	1.83e7	1.24e6	1460	-2.7	0.986	db

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

Response Factor: 1.092

RRF SD: 0.0522909, Relative SD: 4.78856

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	200306R2_1	1.25	1.20	NO	34.23	1.001	9.49e3	7.13e5	1.22	-2.5	1.07	bb
2	200306R2_2	2.50	1.18	NO	34.19	1.000	2.08e4	7.13e5	2.68	7.1	1.17	bb
3	200306R2_3	10.0	1.21	NO	34.21	1.001	7.81e4	6.81e5	10.5	5.1	1.15	bb
4	200306R2_4	50.0	1.21	NO	34.21	1.001	4.95e5	9.38e5	48.3	-3.4	1.05	bb
5	200306R2_5	200	1.22	NO	34.20	1.000	2.06e6	9.84e5	192	-3.9	1.05	bb
6	200306R2_6	1500	1.22	NO	34.21	1.000	1.82e7	1.14e6	1460	-2.4	1.07	bb

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

Response Factor: 1.02678

RRF SD: 0.0447492, Relative SD: 4.35823

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	200306R2_1	1.25	1.27	NO	35.11	1.001	7.40e3	5.96e5	1.21	-3.3	0.993	bb
2	200306R2_2	2.50	1.24	NO	35.07	1.000	1.61e4	6.11e5	2.57	2.9	1.06	bb
3	200306R2_3	10.0	1.24	NO	35.08	1.000	6.28e4	5.68e5	10.8	7.6	1.10	bd
4	200306R2_4	50.0	1.25	NO	35.08	1.000	3.95e5	7.83e5	49.1	-1.8	1.01	MM
5	200306R2_5	200	1.23	NO	35.08	1.001	1.63e6	8.17e5	195	-2.7	0.999	bb
6	200306R2_6	1500	1.23	NO	35.10	1.000	1.48e7	9.86e5	1460	-2.7	0.999	bb

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

Response Factor: 1.04827

RRF SD: 0.0494086, Relative SD: 4.71334

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	200306R2_1	1.25	1.07	NO	36.81	1.000	6.78e3	5.13e5	1.26	0.8	1.06	bb
2	200306R2_2	2.50	0.98	NO	36.78	1.000	1.55e4	5.54e5	2.67	6.7	1.12	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	200306R2_3	10.0	1.01	NO	36.79	1.000	5.42e4	4.96e5	10.4	4.2	1.09	bb
4	200306R2_4	50.0	1.00	NO	36.79	1.000	3.53e5	7.08e5	47.5	-5.0	0.996	bb
5	200306R2_5	200	1.00	NO	36.79	1.000	1.46e6	7.21e5	193	-3.6	1.01	bb
6	200306R2_6	1500	1.01	NO	36.80	1.000	1.31e7	8.61e5	1450	-3.2	1.02	bb

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

Response Factor: 1.2099

RRF SD: 0.0633946, Relative SD: 5.23967

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	200306R2_1	1.25	0.94	NO	38.85	1.001	4.87e3	3.35e5	1.20	-3.8	1.16	bb
2	200306R2_2	2.50	0.98	NO	38.82	1.000	1.18e4	3.60e5	2.72	8.8	1.32	bb
3	200306R2_3	10.0	0.98	NO	38.82	1.000	4.25e4	3.38e5	10.4	4.1	1.26	bb
4	200306R2_4	50.0	1.00	NO	38.82	1.000	2.73e5	4.70e5	48.0	-4.0	1.16	bb
5	200306R2_5	200	1.01	NO	38.82	1.000	1.18e6	4.99e5	195	-2.3	1.18	bb
6	200306R2_6	1500	1.01	NO	38.83	1.000	1.06e7	6.02e5	1460	-2.8	1.18	bb

Compound name: OCDF

Response Factor: 0.946773

RRF SD: 0.0474682, Relative SD: 5.01368

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	200306R2_1	2.50	0.83	NO	41.43	1.000	9.98e3	8.40e5	2.51	0.4	0.950	MM
2	200306R2_2	5.00	0.93	NO	41.40	1.000	2.36e4	9.23e5	5.39	7.8	1.02	bb
3	200306R2_3	20.0	0.89	NO	41.40	1.000	8.67e4	8.82e5	20.8	3.9	0.983	bb
4	200306R2_4	100	0.88	NO	41.41	1.000	5.44e5	1.20e6	95.4	-4.6	0.904	bb
5	200306R2_5	400	0.88	NO	41.40	1.000	2.61e6	1.42e6	387	-3.2	0.917	bb
6	200306R2_6	3000	0.89	NO	41.42	1.000	2.37e7	1.75e6	2870	-4.3	0.906	bb

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

Response Factor: 1.18423

RRF SD: 0.101442, Relative SD: 8.56612

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	200306R2_1	100	0.79	NO	25.80	1.028	1.02e6	7.81e5	110	10.3	1.31	MM
2	200306R2_2	100	0.78	NO	25.76	1.028	1.04e6	9.79e5	89.6	-10.4	1.06	bb
3	200306R2_3	100	0.79	NO	25.78	1.028	9.83e5	9.27e5	89.5	-10.5	1.06	bb
4	200306R2_4	100	0.78	NO	25.78	1.028	1.15e6	9.40e5	103	3.3	1.22	bb
5	200306R2_5	100	0.78	NO	25.76	1.028	1.30e6	1.07e6	102	2.0	1.21	bb
6	200306R2_6	100	0.79	NO	25.76	1.028	1.34e6	1.07e6	105	5.2	1.25	bb

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

Response Factor: 0.864397

RRF SD: 0.123368, Relative SD: 14.2722

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	200306R2_1	100	0.64	NO	30.99	1.235	7.13e5	7.81e5	106	5.7	0.914	bb
2	200306R2_2	100	0.63	NO	30.96	1.235	6.98e5	9.79e5	82.5	-17.5	0.713	bb
3	200306R2_3	100	0.64	NO	30.97	1.235	6.63e5	9.27e5	82.7	-17.3	0.715	bb
4	200306R2_4	100	0.62	NO	30.97	1.235	9.00e5	9.40e5	111	10.8	0.958	bb
5	200306R2_5	100	0.64	NO	30.97	1.236	9.49e5	1.07e6	102	2.3	0.884	bb
6	200306R2_6	100	0.63	NO	30.97	1.236	1.08e6	1.07e6	116	16.1	1.00	bb

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

Response Factor: 0.753912

RRF SD: 0.0956829, Relative SD: 12.6915

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	200306R2_1	100	1.25	NO	34.38	1.014	5.37e5	6.43e5	111	10.7	0.835	bd
2	200306R2_2	100	1.28	NO	34.35	1.014	5.23e5	7.96e5	87.2	-12.8	0.657	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	200306R2_3	100	1.28	NO	34.36	1.014	4.95e5	7.60e5	86.4	-13.6	0.652	bd
4	200306R2_4	100	1.27	NO	34.36	1.014	6.79e5	9.06e5	99.5	-0.5	0.750	bd
5	200306R2_5	100	1.26	NO	34.36	1.014	6.81e5	9.24e5	97.8	-2.2	0.738	bd
6	200306R2_6	100	1.28	NO	34.37	1.014	8.39e5	9.40e5	118	18.4	0.892	bd

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

Response Factor: 0.925405

RRF SD: 0.118798, Relative SD: 12.8375

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	200306R2_1	100	1.25	NO	34.49	1.017	6.23e5	6.43e5	105	4.6	0.968	db
2	200306R2_2	100	1.26	NO	34.46	1.017	6.45e5	7.96e5	87.5	-12.5	0.810	db
3	200306R2_3	100	1.25	NO	34.47	1.017	6.06e5	7.60e5	86.2	-13.8	0.797	db
4	200306R2_4	100	1.28	NO	34.47	1.017	8.29e5	9.06e5	98.9	-1.1	0.916	db
5	200306R2_5	100	1.28	NO	34.46	1.017	8.67e5	9.24e5	101	1.4	0.939	db
6	200306R2_6	100	1.27	NO	34.47	1.017	1.05e6	9.40e5	121	21.3	1.12	db

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

Response Factor: 0.829419

RRF SD: 0.100271, Relative SD: 12.0893

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	200306R2_1	100	1.30	NO	34.75	1.025	5.57e5	6.43e5	104	4.5	0.867	bd
2	200306R2_2	100	1.23	NO	34.72	1.025	5.80e5	7.96e5	87.8	-12.2	0.728	bb
3	200306R2_3	100	1.24	NO	34.73	1.025	5.46e5	7.60e5	86.6	-13.4	0.718	bb
4	200306R2_4	100	1.23	NO	34.73	1.025	7.47e5	9.06e5	99.4	-0.6	0.825	bb
5	200306R2_5	100	1.19	NO	34.73	1.025	7.83e5	9.24e5	102	2.3	0.848	bb
6	200306R2_6	100	1.25	NO	34.74	1.025	9.31e5	9.40e5	119	19.4	0.990	bb

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

Response Factor: 0.598232

RRF SD: 0.0717306, Relative SD: 11.9904

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	200306R2_1	100	1.03	NO	38.21	1.127	3.74e5	6.43e5	97.3	-2.7	0.582	bb
2	200306R2_2	100	1.06	NO	38.17	1.127	4.34e5	7.96e5	91.1	-8.9	0.545	bd
3	200306R2_3	100	1.06	NO	38.17	1.126	3.84e5	7.60e5	84.5	-15.5	0.506	bb
4	200306R2_4	100	1.05	NO	38.19	1.127	5.52e5	9.06e5	102	1.9	0.610	bb
5	200306R2_5	100	1.11	NO	38.18	1.127	5.89e5	9.24e5	107	6.6	0.638	bd
6	200306R2_6	100	1.06	NO	38.19	1.127	6.67e5	9.40e5	119	18.6	0.709	bb

Compound name: 13C-OCDD

Response Factor: 0.571169

RRF SD: 0.108174, Relative SD: 18.9391

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	200306R2_1	200	0.90	NO	41.23	1.216	7.05e5	6.43e5	192	-4.0	0.548	bd
2	200306R2_2	200	0.90	NO	41.21	1.216	7.62e5	7.96e5	168	-16.2	0.479	bb
3	200306R2_3	200	0.94	NO	41.22	1.216	7.16e5	7.60e5	165	-17.5	0.471	bd
4	200306R2_4	200	0.85	NO	41.21	1.216	9.75e5	9.06e5	189	-5.7	0.538	bb
5	200306R2_5	200	0.89	NO	41.21	1.216	1.17e6	9.24e5	222	11.0	0.634	bd
6	200306R2_6	200	0.90	NO	41.23	1.217	1.42e6	9.40e5	265	32.5	0.757	bd

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

Response Factor: 1.08928

RRF SD: 0.0987678, Relative SD: 9.06725

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	200306R2_1	100	0.79	NO	24.84	0.990	1.43e6	1.19e6	111	11.0	1.21	bb
2	200306R2_2	100	0.79	NO	24.79	0.989	1.45e6	1.48e6	89.7	-10.3	0.977	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-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	200306R2_3	100	0.77	NO	24.81	0.989	1.38e6	1.43e6	88.3	-11.7	0.962	bb
4	200306R2_4	100	0.78	NO	24.82	0.990	1.46e6	1.27e6	106	5.6	1.15	bb
5	200306R2_5	100	0.78	NO	24.81	0.990	1.74e6	1.56e6	103	2.7	1.12	bb
6	200306R2_6	100	0.78	NO	24.79	0.989	1.81e6	1.62e6	103	2.7	1.12	bb

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

Response Factor: 0.876347

RRF SD: 0.137914, Relative SD: 15.7373

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	200306R2_1	100	1.55	NO	29.66	1.182	1.13e6	1.19e6	109	8.6	0.952	bb
2	200306R2_2	100	1.60	NO	29.63	1.182	1.07e6	1.48e6	82.5	-17.5	0.723	bb
3	200306R2_3	100	1.58	NO	29.63	1.182	9.93e5	1.43e6	79.2	-20.8	0.694	bb
4	200306R2_4	100	1.60	NO	29.63	1.181	1.30e6	1.27e6	117	17.2	1.03	bb
5	200306R2_5	100	1.57	NO	29.63	1.182	1.38e6	1.56e6	101	1.2	0.887	bb
6	200306R2_6	100	1.57	NO	29.65	1.183	1.58e6	1.62e6	111	11.3	0.976	bb

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

Response Factor: 0.843553

RRF SD: 0.133299, Relative SD: 15.8021

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	200306R2_1	100	1.57	NO	30.68	1.223	1.05e6	1.19e6	105	4.8	0.884	db
2	200306R2_2	100	1.58	NO	30.64	1.222	1.02e6	1.48e6	81.4	-18.6	0.687	db
3	200306R2_3	100	1.58	NO	30.65	1.222	9.68e5	1.43e6	80.2	-19.8	0.677	db
4	200306R2_4	100	1.60	NO	30.65	1.222	1.27e6	1.27e6	118	18.2	0.997	db
5	200306R2_5	100	1.58	NO	30.65	1.223	1.36e6	1.56e6	103	3.2	0.870	db
6	200306R2_6	100	1.60	NO	30.67	1.224	1.53e6	1.62e6	112	12.2	0.947	db

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

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

Response Factor: 1.00027

RRF SD: 0.122541, Relative SD: 12.2508

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	200306R2_1	100	0.52	NO	33.52	0.988	7.10e5	6.43e5	110	10.3	1.10	bd
2	200306R2_2	100	0.51	NO	33.50	0.989	6.91e5	7.96e5	86.8	-13.2	0.869	bd
3	200306R2_3	100	0.52	NO	33.51	0.989	6.52e5	7.60e5	85.8	-14.2	0.858	bd
4	200306R2_4	100	0.51	NO	33.51	0.989	8.98e5	9.06e5	99.1	-0.9	0.992	bd
5	200306R2_5	100	0.52	NO	33.50	0.989	9.40e5	9.24e5	102	1.7	1.02	bd
6	200306R2_6	100	0.52	NO	33.51	0.989	1.09e6	9.40e5	116	16.3	1.16	bd

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

Response Factor: 1.1178

RRF SD: 0.141321, Relative SD: 12.6428

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	200306R2_1	100	0.51	NO	33.65	0.992	7.80e5	6.43e5	108	8.5	1.21	db
2	200306R2_2	100	0.51	NO	33.62	0.992	7.71e5	7.96e5	86.6	-13.4	0.969	db
3	200306R2_3	100	0.53	NO	33.63	0.992	7.22e5	7.60e5	85.0	-15.0	0.951	db
4	200306R2_4	100	0.52	NO	33.63	0.992	1.01e6	9.06e5	99.9	-0.1	1.12	db
5	200306R2_5	100	0.53	NO	33.61	0.992	1.05e6	9.24e5	102	2.1	1.14	db
6	200306R2_6	100	0.52	NO	33.64	0.993	1.24e6	9.40e5	118	17.9	1.32	db

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

Response Factor: 1.03533

RRF SD: 0.12301, Relative SD: 11.8812

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	200306R2_1	100	0.52	NO	34.21	1.009	7.13e5	6.43e5	107	7.1	1.11	bb
2	200306R2_2	100	0.51	NO	34.18	1.009	7.13e5	7.96e5	86.5	-13.5	0.896	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200306R2_3	100	0.52	NO	34.19	1.009	6.81e5	7.60e5	86.6	-13.4	0.896	bb
4	200306R2_4	100	0.53	NO	34.19	1.009	9.38e5	9.06e5	100	0.1	1.04	MM
5	200306R2_5	100	0.52	NO	34.19	1.009	9.84e5	9.24e5	103	2.9	1.07	bb
6	200306R2_6	100	0.52	NO	34.20	1.009	1.14e6	9.40e5	117	16.9	1.21	bb

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

Response Factor: 0.873112

RRF SD: 0.110234, Relative SD: 12.6254

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	200306R2_1	100	0.51	NO	35.08	1.035	5.96e5	6.43e5	106	6.1	0.926	bb
2	200306R2_2	100	0.51	NO	35.06	1.035	6.11e5	7.96e5	87.9	-12.1	0.768	bb
3	200306R2_3	100	0.52	NO	35.07	1.035	5.68e5	7.60e5	85.6	-14.4	0.747	bb
4	200306R2_4	100	0.52	NO	35.07	1.035	7.83e5	9.06e5	99.0	-1.0	0.864	bb
5	200306R2_5	100	0.51	NO	35.06	1.035	8.17e5	9.24e5	101	1.3	0.884	bb
6	200306R2_6	100	0.53	NO	35.08	1.035	9.86e5	9.40e5	120	20.1	1.05	bb

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

Response Factor: 0.770799

RRF SD: 0.0912069, Relative SD: 11.8328

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	200306R2_1	100	0.44	NO	36.80	1.085	5.13e5	6.43e5	104	3.5	0.798	bb
2	200306R2_2	100	0.46	NO	36.77	1.085	5.54e5	7.96e5	90.3	-9.7	0.696	bb
3	200306R2_3	100	0.45	NO	36.78	1.085	4.96e5	7.60e5	84.6	-15.4	0.652	bb
4	200306R2_4	100	0.46	NO	36.78	1.085	7.08e5	9.06e5	101	1.4	0.782	bd
5	200306R2_5	100	0.45	NO	36.78	1.086	7.21e5	9.24e5	101	1.3	0.781	bb
6	200306R2_6	100	0.45	NO	36.79	1.086	8.61e5	9.40e5	119	18.8	0.916	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

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

Response Factor: 0.519283

RRF SD: 0.0710328, Relative SD: 13.679

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	200306R2_1	100	0.45	NO	38.83	1.145	3.35e5	6.43e5	100	0.2	0.521	bd
2	200306R2_2	100	0.45	NO	38.80	1.145	3.60e5	7.96e5	87.0	-13.0	0.452	bd
3	200306R2_3	100	0.44	NO	38.81	1.145	3.38e5	7.60e5	85.6	-14.4	0.444	bd
4	200306R2_4	100	0.45	NO	38.81	1.145	4.70e5	9.06e5	99.9	-0.1	0.519	bb
5	200306R2_5	100	0.44	NO	38.81	1.145	4.99e5	9.24e5	104	3.9	0.540	bb
6	200306R2_6	100	0.45	NO	38.82	1.145	6.02e5	9.40e5	123	23.3	0.640	bb

Compound name: 13C-OCDF

Response Factor: 0.696311

RRF SD: 0.133796, Relative SD: 19.215

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	200306R2_1	200	0.88	NO	41.42	1.221	8.40e5	6.43e5	188	-6.2	0.653	bb
2	200306R2_2	200	0.90	NO	41.38	1.221	9.23e5	7.96e5	167	-16.7	0.580	bb
3	200306R2_3	200	0.86	NO	41.39	1.221	8.82e5	7.60e5	167	-16.6	0.581	bb
4	200306R2_4	200	0.89	NO	41.40	1.222	1.20e6	9.06e5	191	-4.6	0.664	bb
5	200306R2_5	200	0.89	NO	41.39	1.222	1.42e6	9.24e5	221	10.7	0.771	bb
6	200306R2_6	200	0.89	NO	41.41	1.222	1.75e6	9.40e5	267	33.4	0.929	bb

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

Response Factor: 1.17455

RRF SD: 0.0840795, Relative SD: 7.15847

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	200306R2_1	0.250			25.84	1.030	2.53e3	7.81e5	0.276	10.3	1.30	bb
2	200306R2_2	0.500			25.78	1.029	5.58e3	9.79e5	0.486	-2.9	1.14	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-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	200306R2_3	2.00			25.80	1.029	1.94e4	9.27e5	1.78	-11.1	1.04	bb
4	200306R2_4	10.0			25.80	1.029	1.11e5	9.40e5	10.1	0.8	1.18	bb
5	200306R2_5	40.0			25.80	1.029	4.97e5	1.07e6	39.5	-1.4	1.16	bb
6	200306R2_6	200			25.80	1.029	2.63e6	1.07e6	208	4.2	1.22	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	200306R2_1	100	0.81	NO	25.09	1.000	7.81e5	7.81e5	100	0.0	1.00	bb
2	200306R2_2	100	0.80	NO	25.06	1.000	9.79e5	9.79e5	100	0.0	1.00	bb
3	200306R2_3	100	0.80	NO	25.08	1.000	9.27e5	9.27e5	100	0.0	1.00	bb
4	200306R2_4	100	0.78	NO	25.08	1.000	9.40e5	9.40e5	100	0.0	1.00	bb
5	200306R2_5	100	0.81	NO	25.06	1.000	1.07e6	1.07e6	100	0.0	1.00	bb
6	200306R2_6	100	0.79	NO	25.06	1.000	1.07e6	1.07e6	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	200306R2_1	100	0.80	NO	23.24	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
2	200306R2_2	100	0.79	NO	23.21	1.000	1.48e6	1.48e6	100	0.0	1.00	bb
3	200306R2_3	100	0.81	NO	23.21	1.000	1.43e6	1.43e6	100	0.0	1.00	bb
4	200306R2_4	100	0.79	NO	23.22	1.000	1.27e6	1.27e6	100	0.0	1.00	bb
5	200306R2_5	100	0.79	NO	23.21	1.000	1.56e6	1.56e6	100	0.0	1.00	bb
6	200306R2_6	100	0.79	NO	23.19	1.000	1.62e6	1.62e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-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	200306R2_1	100	0.51	NO	33.91	1.000	6.43e5	6.43e5	100	0.0	1.00	bb
2	200306R2_2	100	0.52	NO	33.88	1.000	7.96e5	7.96e5	100	0.0	1.00	bb
3	200306R2_3	100	0.51	NO	33.89	1.000	7.60e5	7.60e5	100	0.0	1.00	bb
4	200306R2_4	100	0.52	NO	33.89	1.000	9.06e5	9.06e5	100	0.0	1.00	bb
5	200306R2_5	100	0.52	NO	33.88	1.000	9.24e5	9.24e5	100	0.0	1.00	bb
6	200306R2_6	100	0.52	NO	33.89	1.000	9.40e5	9.40e5	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:43:03 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:45:55 Pacific Daylight Time

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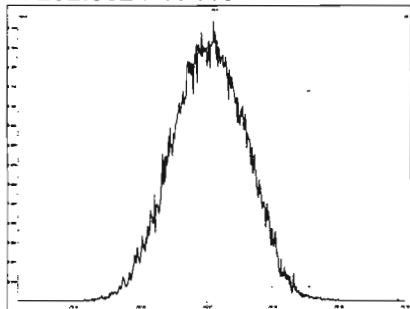
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4	200306R2_4	ST200306R2_4 1613 CS3 19L2305	06-Mar-20	15:32:12
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8	200306R2_8	SS200306R2_1 1613 SSS 19L2308	06-Mar-20	18:42:29
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14	200306R2_14	2000406-13 PDI-059SC-A-11-12-191016 13.47	06-Mar-20	23:35:07
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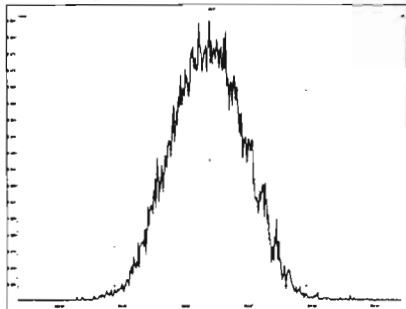
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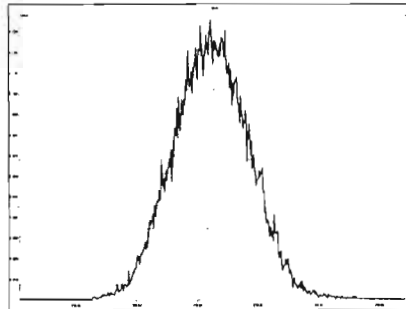
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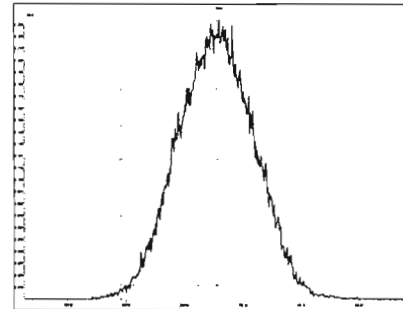
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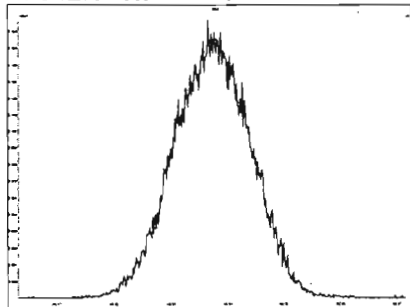
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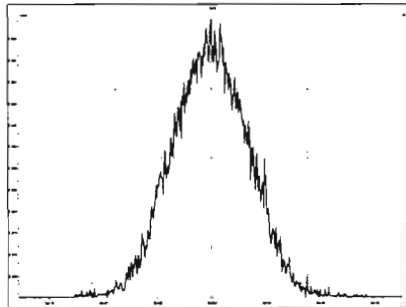
M 330.9792 R 10961



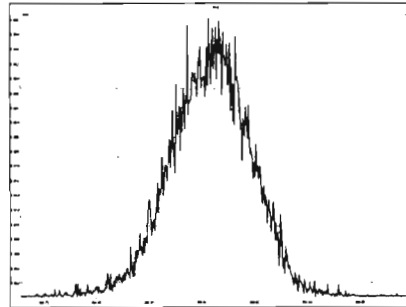
M 342.9792 R 11061



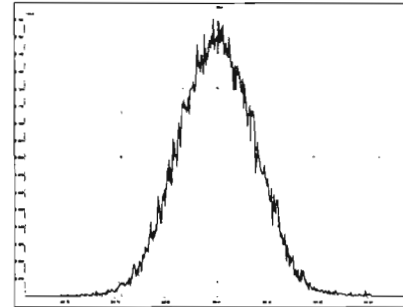
M 354.9792 R 11365



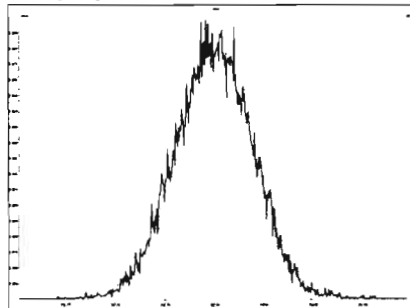
M 366.9792 R 10460



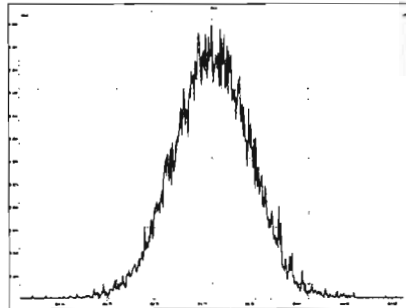
M 380.9760 R 11016



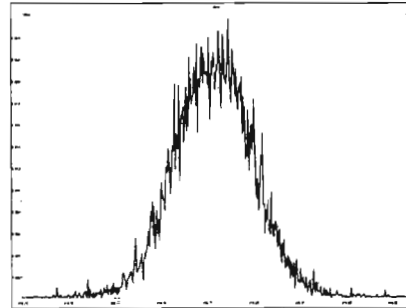
M 392.9760 R 10594



M 404.9760 R 11260



M 416.9760 R 11465



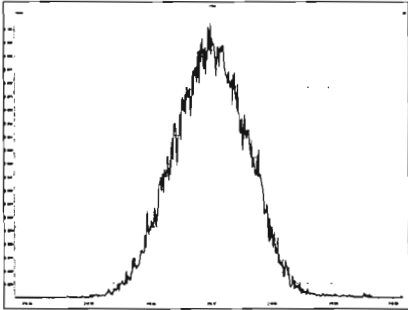
Experiment Calibration Report

MassLynx 4.1 SCN815

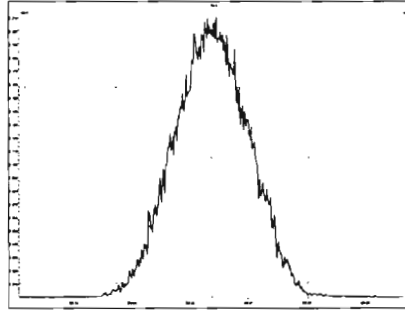
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:06:28 Pacific Standard Time

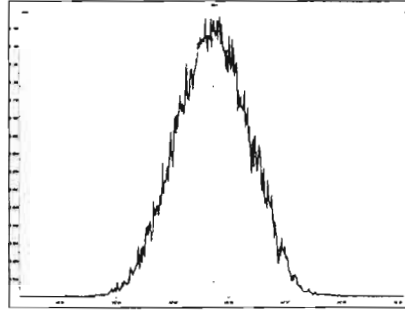
M 318.9792 R 11796



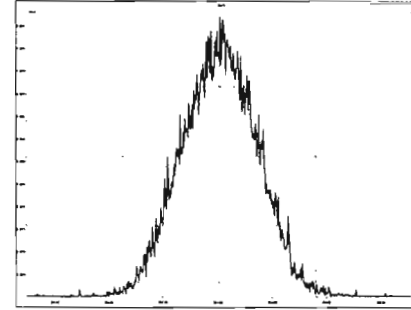
M 330.9792 R 11522



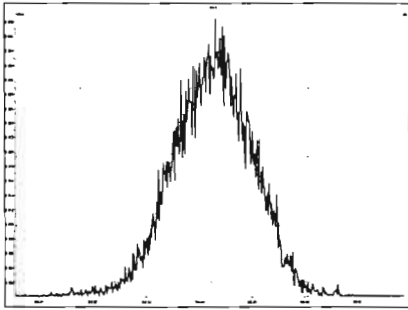
M 342.9792 R 11363



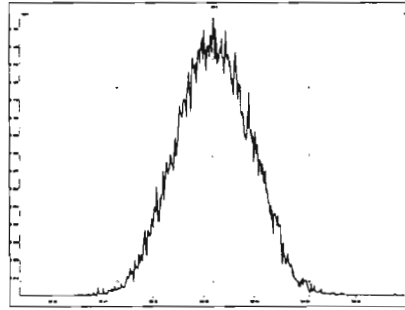
M 354.9792 R 11413



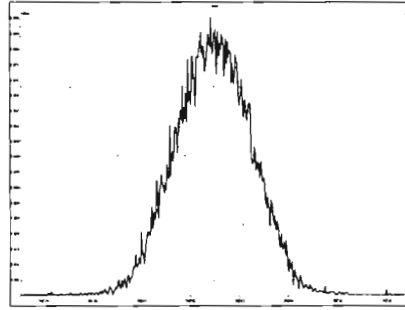
M 366.9792 R 10730



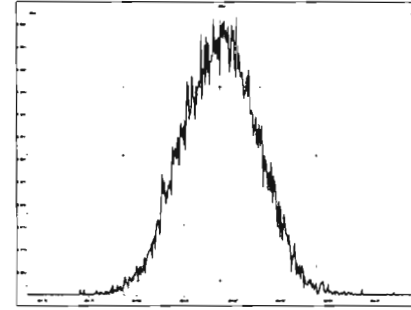
M 380.9760 R 11159



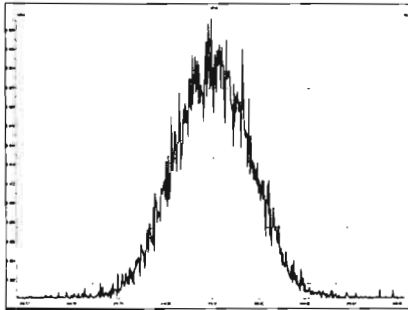
M 392.9760 R 11575



M 404.9760 R 11061



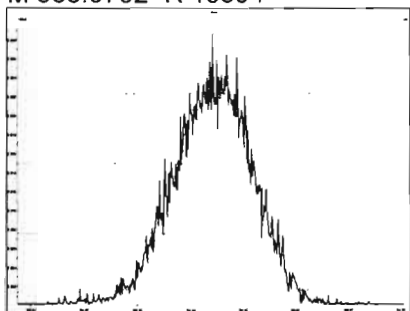
M 416.9760 R 10728



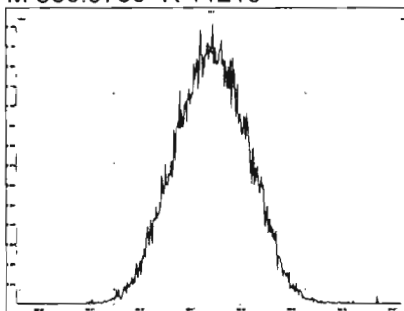
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:07:06 Pacific Standard Time

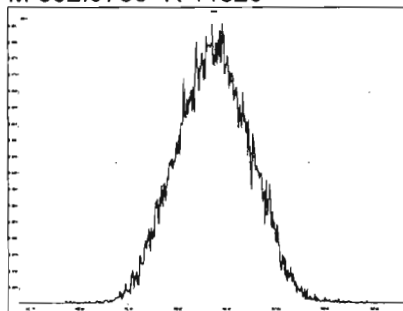
M 366.9792 R 10504



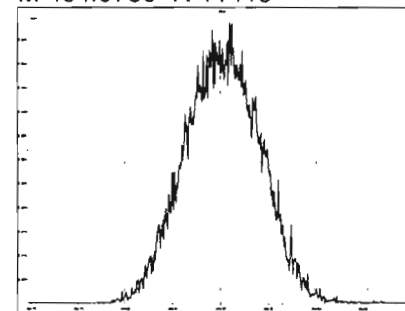
M 380.9760 R 11210



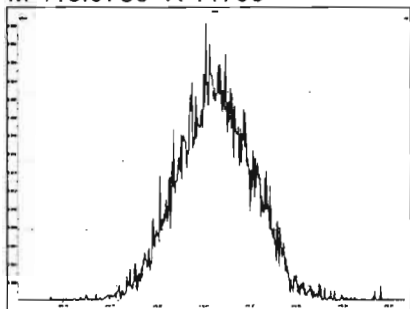
M 392.9760 R 11629



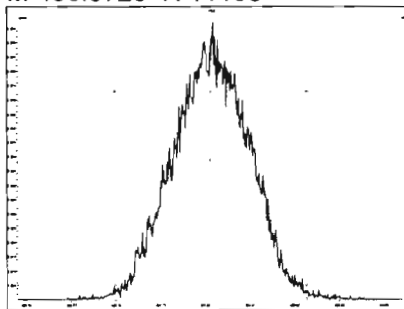
M 404.9760 R 11415



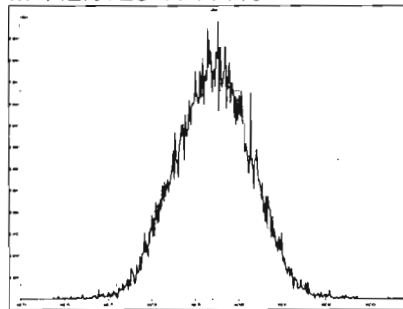
M 416.9760 R 11795



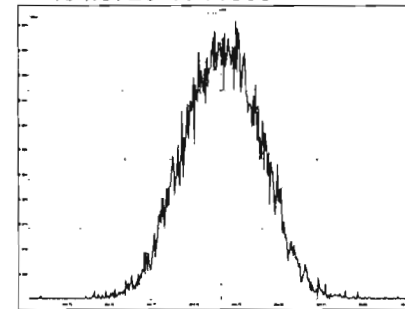
M 430.9728 R 11108



M 442.9728 R 11415



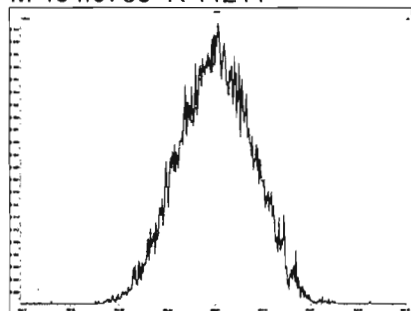
M 454.9728 R 11063



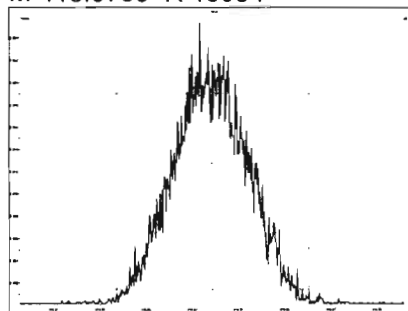
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:07:43 Pacific Standard Time

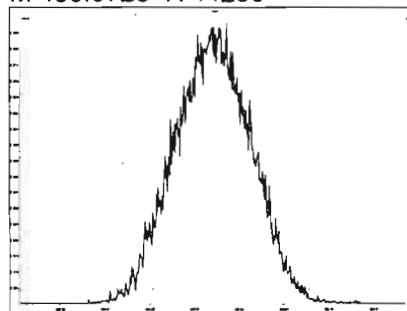
M 404.9760 R 11211



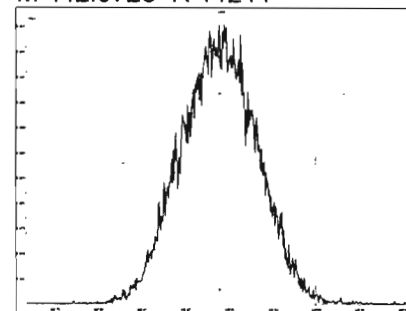
M 416.9760 R 10964



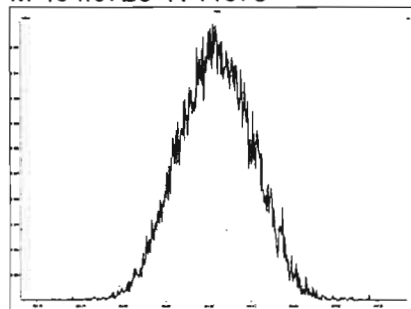
M 430.9728 R 11263



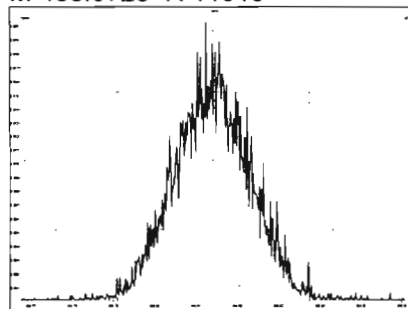
M 442.9728 R 11211



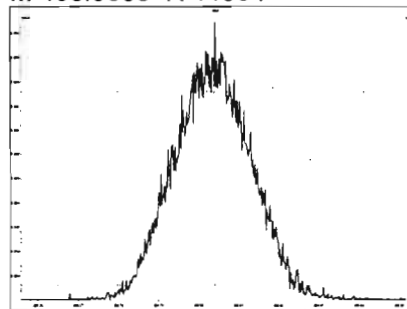
M 454.9728 R 11576



M 466.9728 R 11313



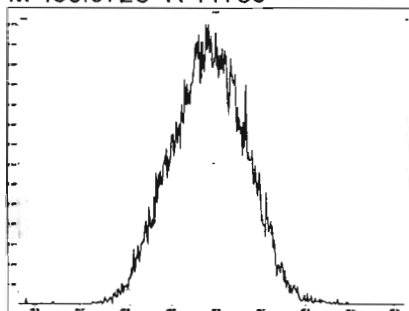
M 480.9696 R 11904



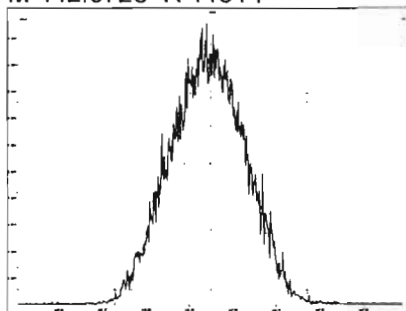
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:08:16 Pacific Standard Time

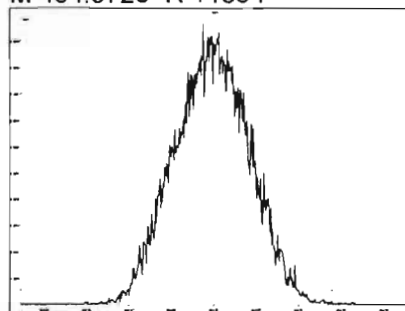
M 430.9728 R 11736



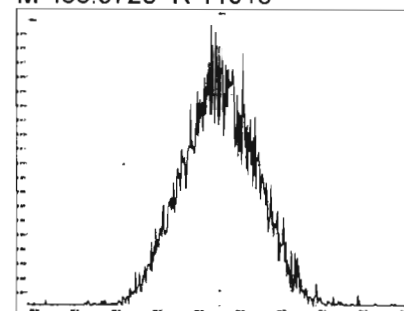
M 442.9728 R 11314



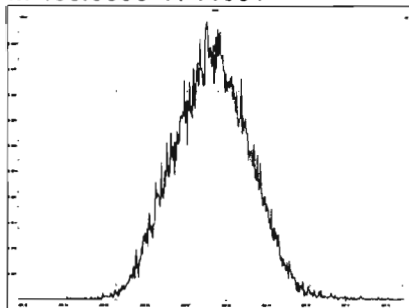
M 454.9728 R 11364



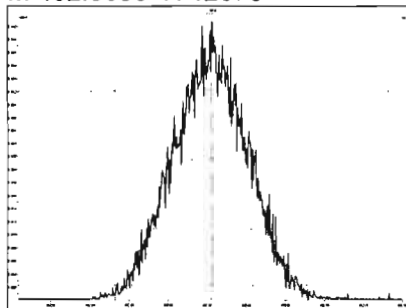
M 466.9728 R 11015



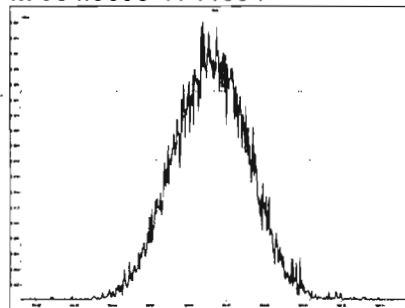
M 480.9696 R 11361



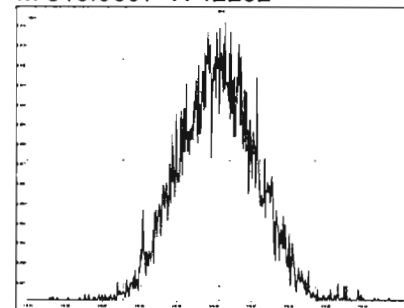
M 492.9696 R 12376



M 504.9696 R 11064



M 516.9697 R 12252



Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:48:00 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:48:29 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Mar 2020 18:12:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.53
2	2 1,2,8,9-TCDD (Last)	26.81
3	3 1,2,4,7,9-PeCDD (First)	28.70
4	4 1,2,3,8,9-PeCDD (Last)	31.38
5	5 1,2,4,6,7,9-HxCDD (First)	32.90
6	6 1,2,3,7,8,9-HxCDD (Last)	34.74
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.17
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.21
9	9 1,3,6,8-TCDF (First)	19.52
10	10 1,2,8,9-TCDF (Last)	26.96
11	11 1,3,4,6,8-PeCDF (First)	26.93
12	12 1,2,3,8,9-PeCDF (Last)	31.63
13	13 1,2,3,4,6,8-HxCDF (First)	32.34
14	14 1,2,3,7,8,9-HxCDF (Last)	35.08
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.79
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.82

Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:48:00 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:48:29 Pacific Daylight Time

GRB 03/09/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Mar 2020 18:12:45

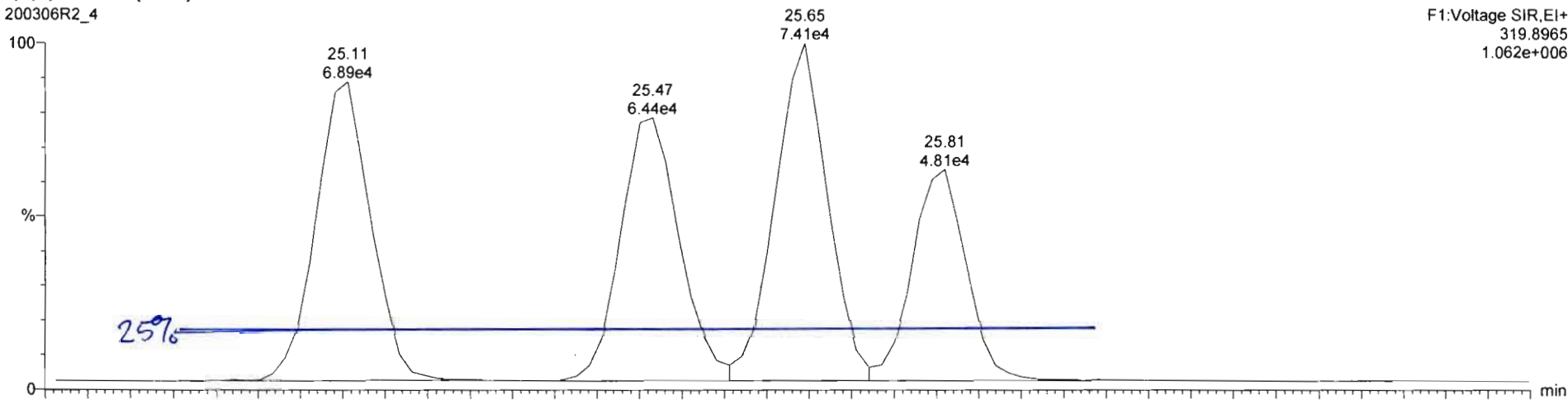
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

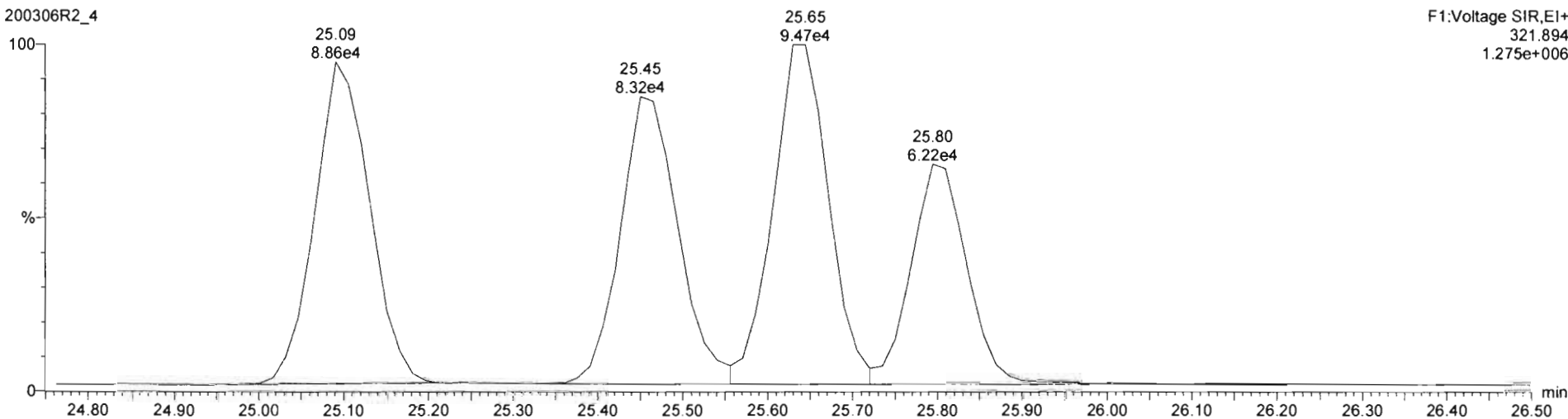
200306R2_4

F1:Voltage SIR,EI+
319.8965
1.062e+006



200306R2_4

F1:Voltage SIR,EI+
321.894
1.275e+006



Dataset: Untitled

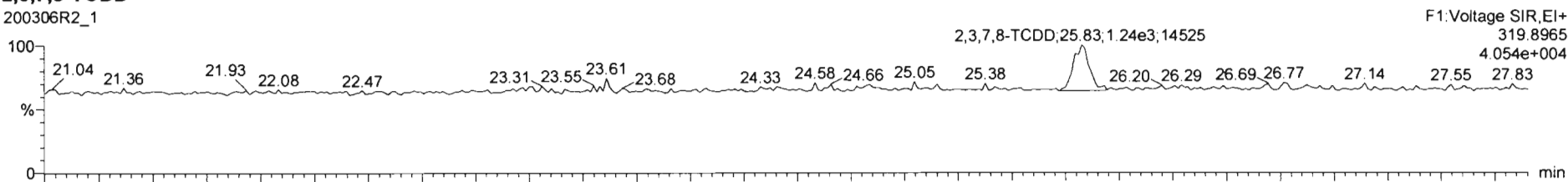
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

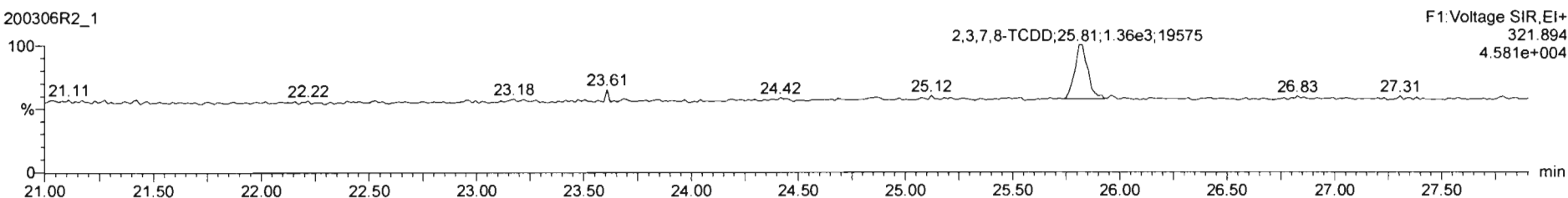
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200306R2_1

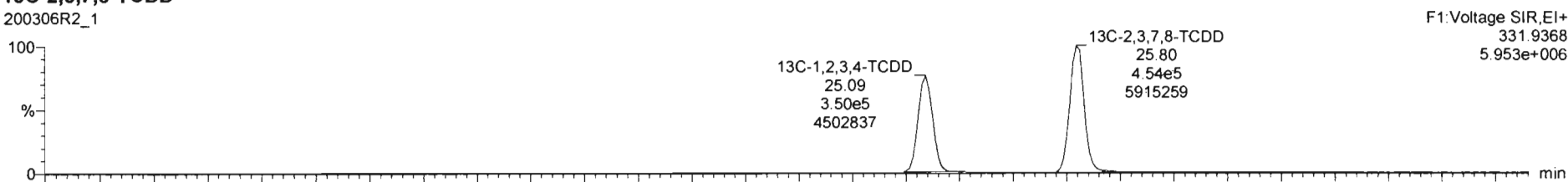


200306R2_1

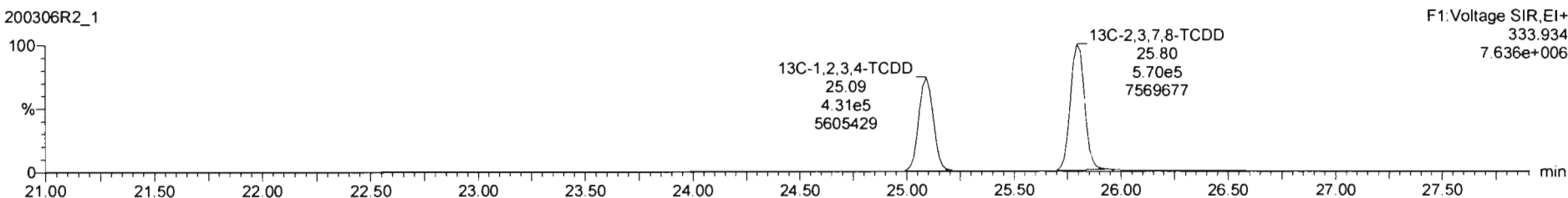


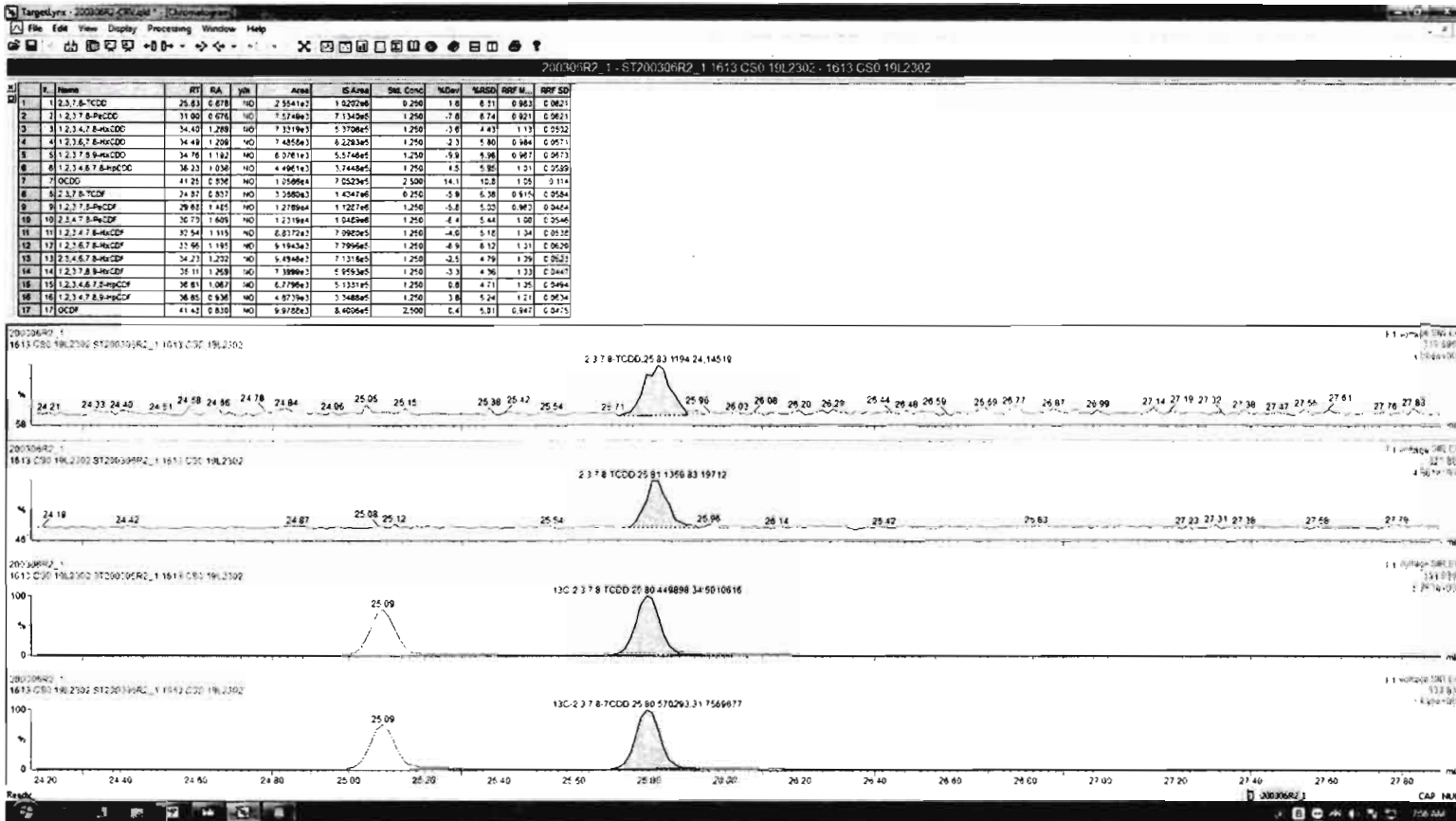
13C-2,3,7,8-TCDD

200306R2_1



200306R2_1





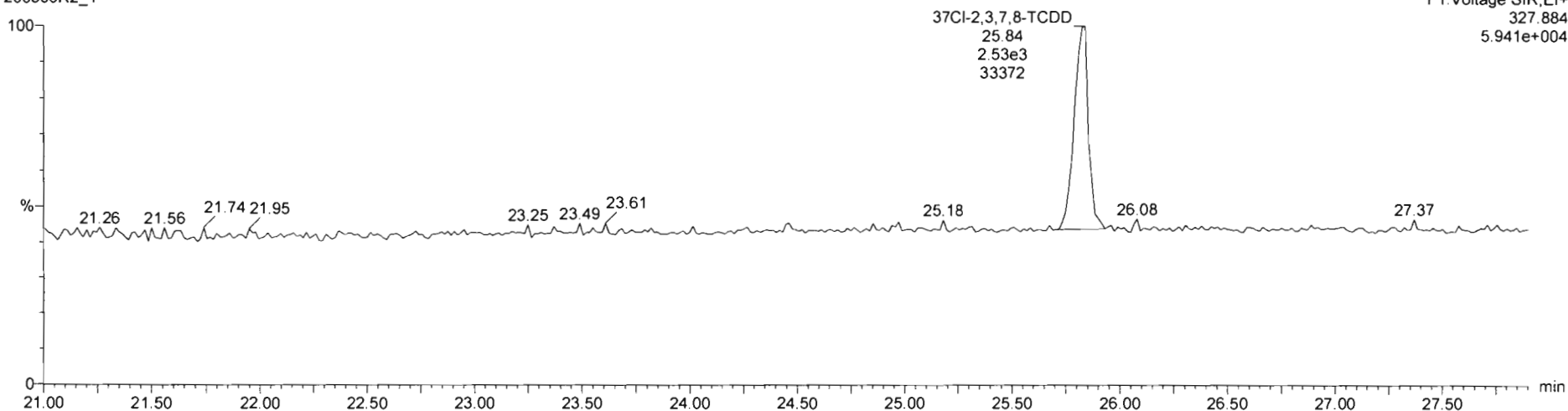
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

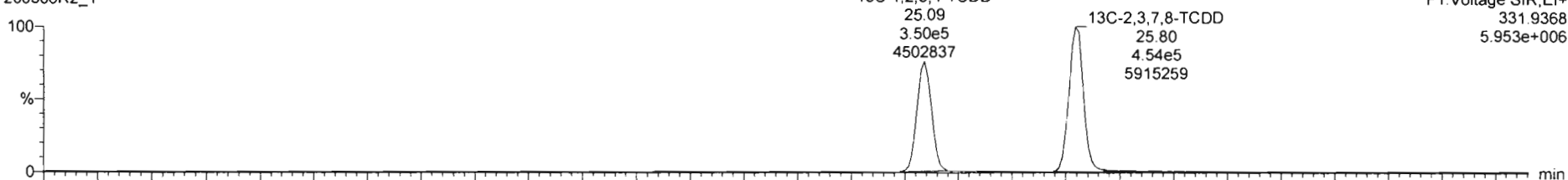
37Cl-2,3,7,8-TCDD

200306R2_1

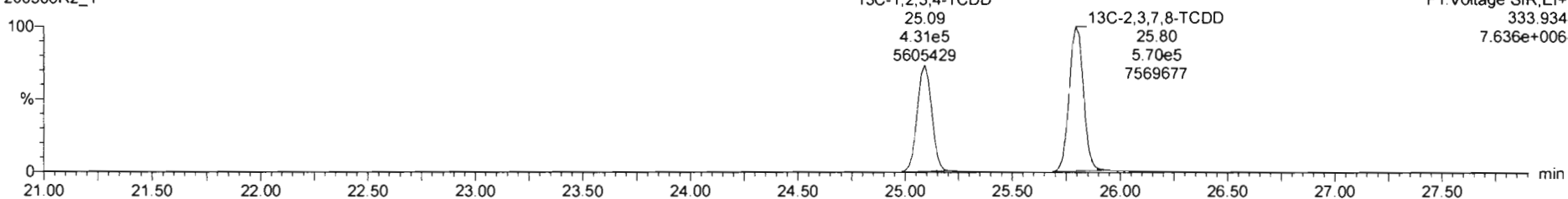


13C-1,2,3,4-TCDD

200306R2_1



200306R2_1



Dataset: Untitled

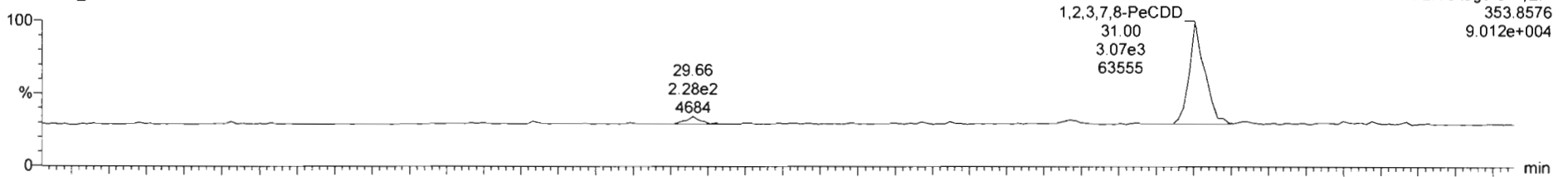
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

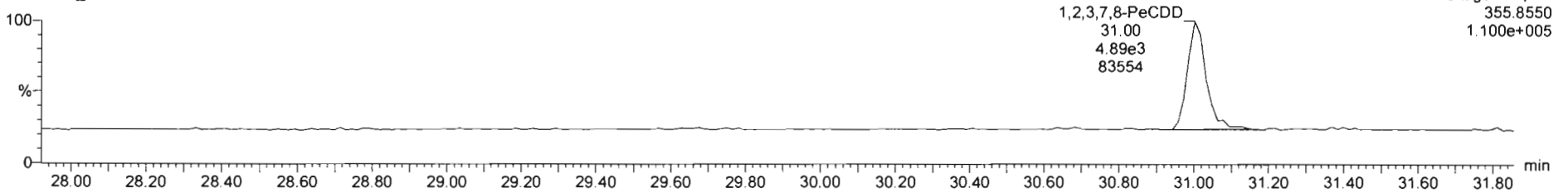
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1,2,3,7,8-PeCDD

200306R2_1

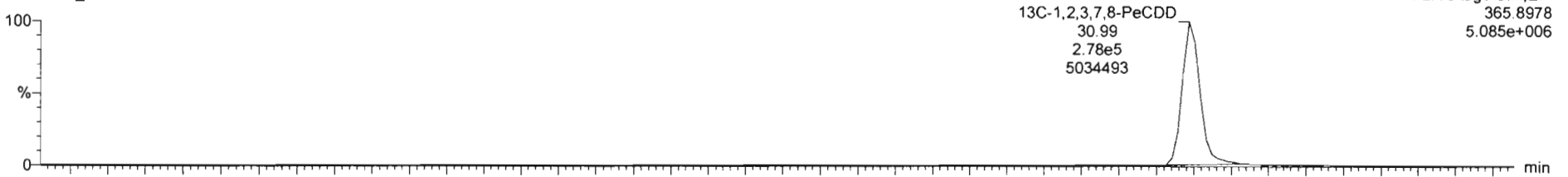


200306R2_1

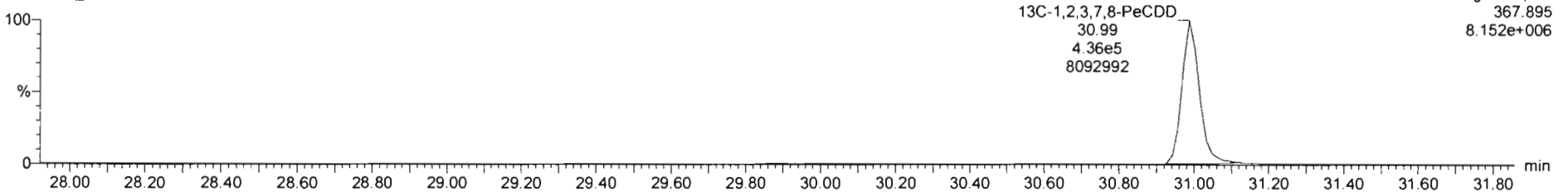


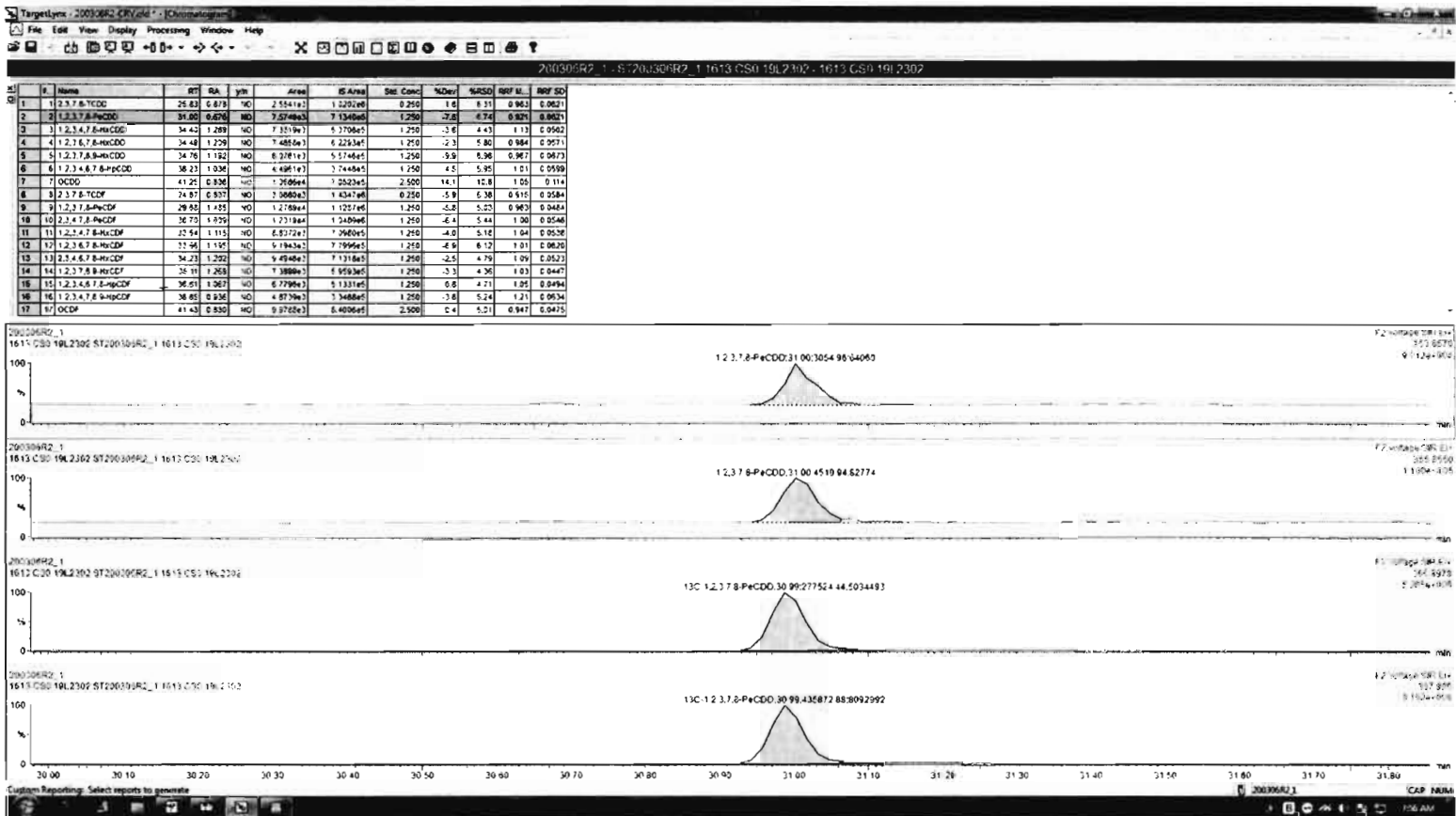
13C-1,2,3,7,8-PeCDD

200306R2_1



200306R2_1





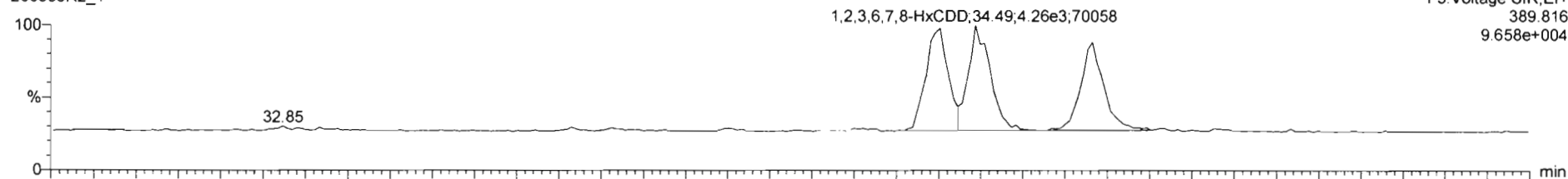
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

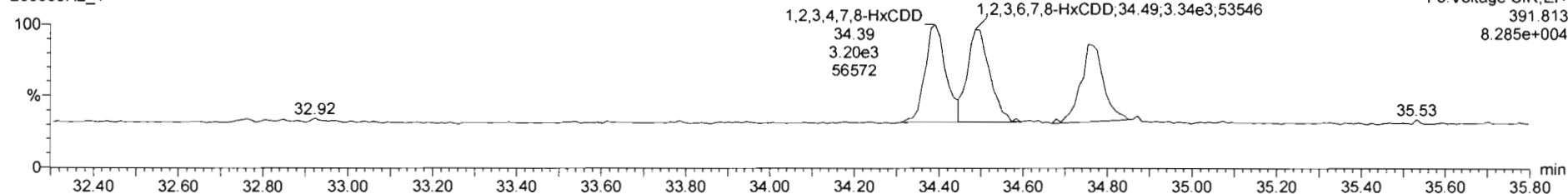
1,2,3,4,7,8-HxCDD

200306R2_1



F3: Voltage SIR, EI+
389.816
9.658e+004

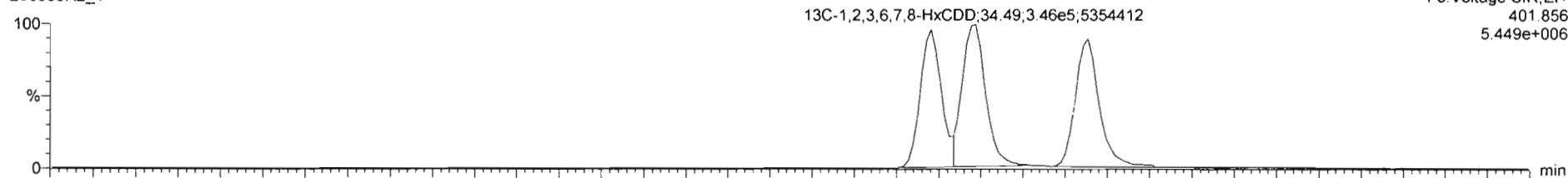
200306R2_1



F3: Voltage SIR, EI+
391.813
8.285e+004

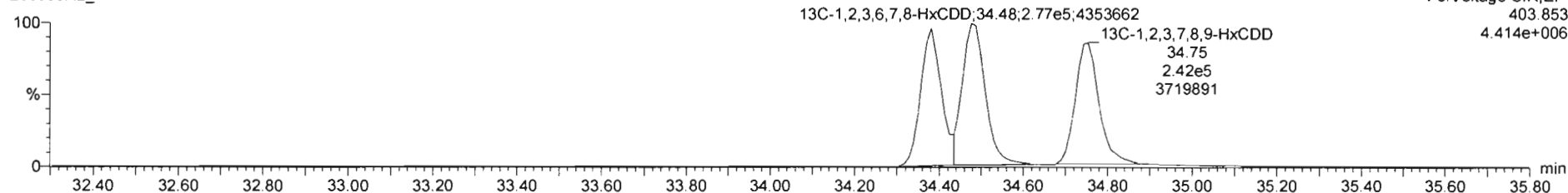
13C-1,2,3,4,7,8-HxCDD

200306R2_1

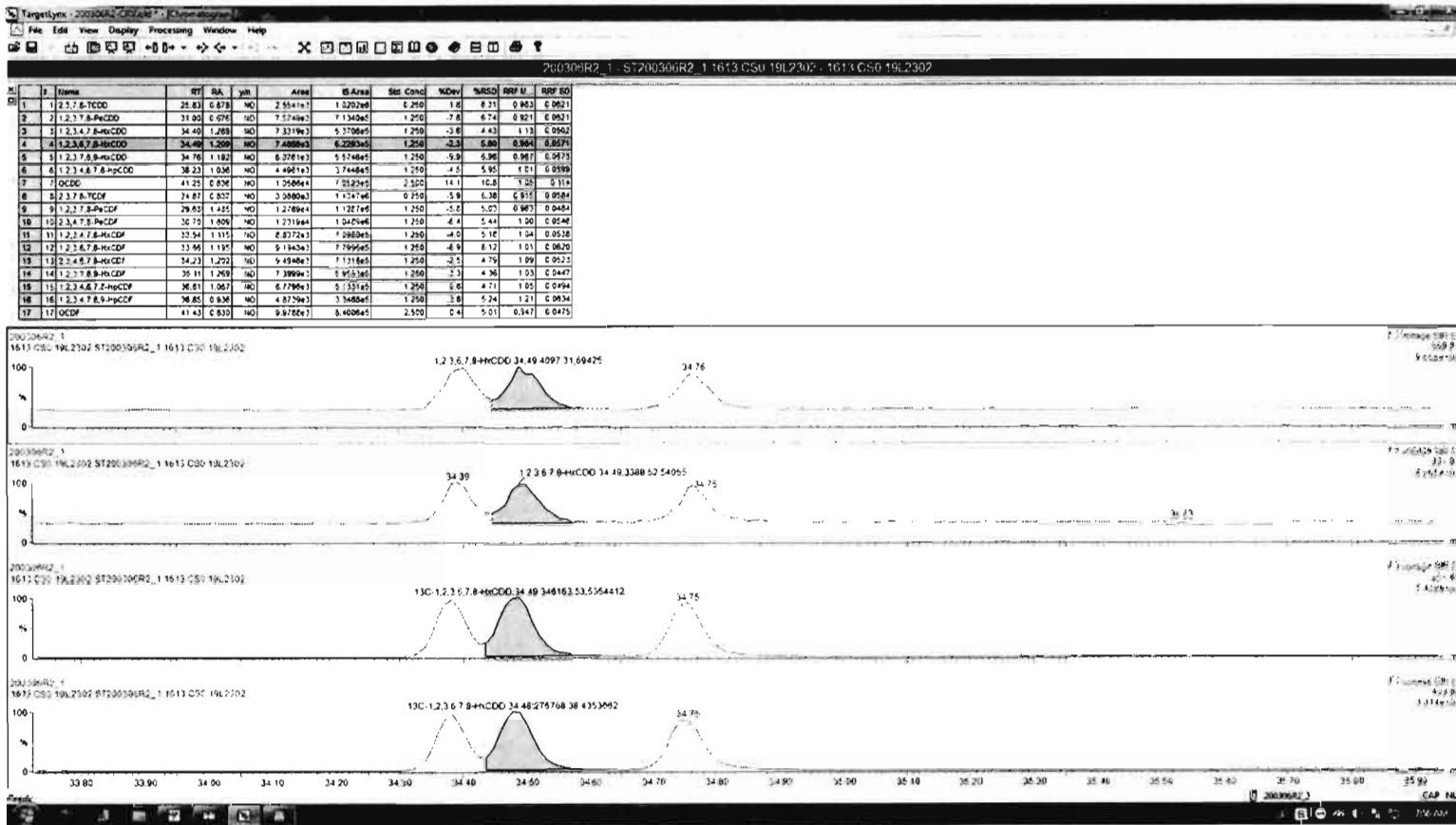


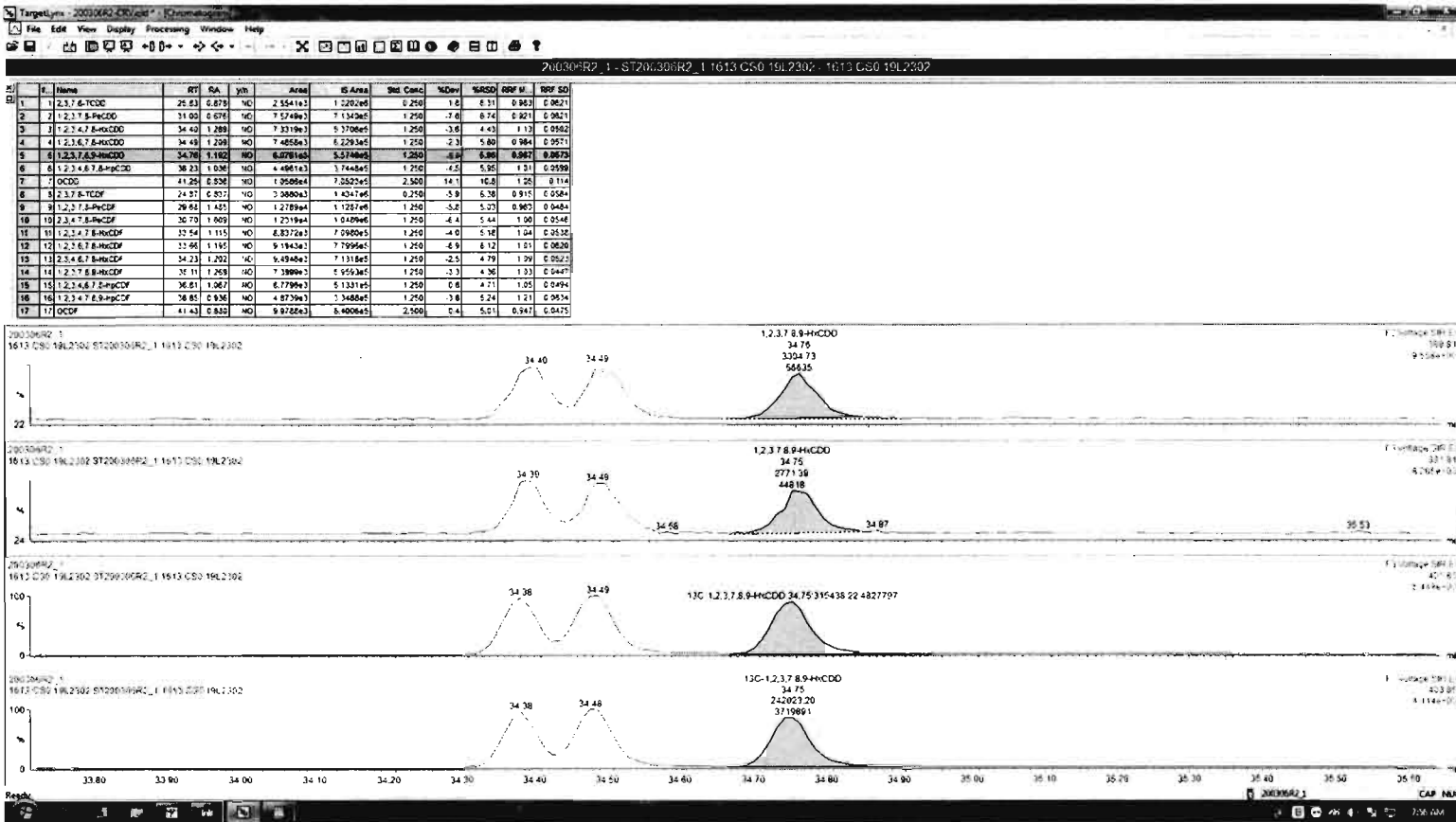
F3: Voltage SIR, EI+
401.856
5.449e+006

200306R2_1



F3: Voltage SIR, EI+
403.853
4.414e+006





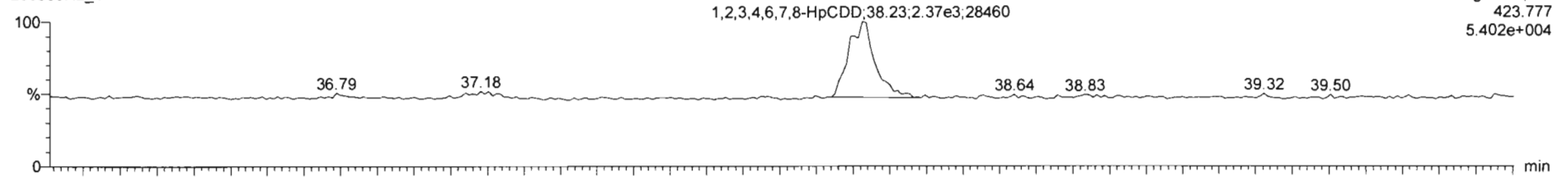
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

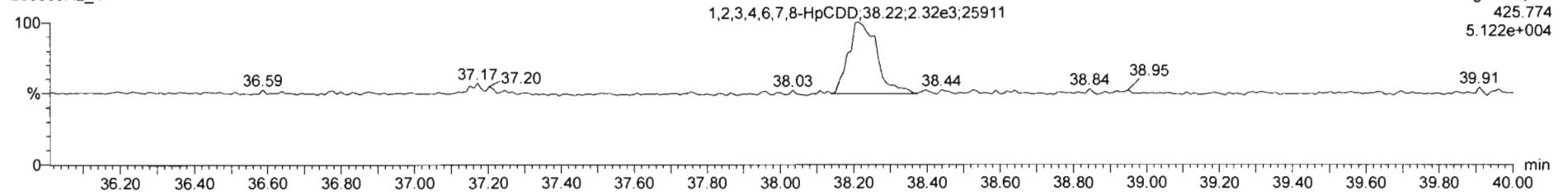
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200306R2_1

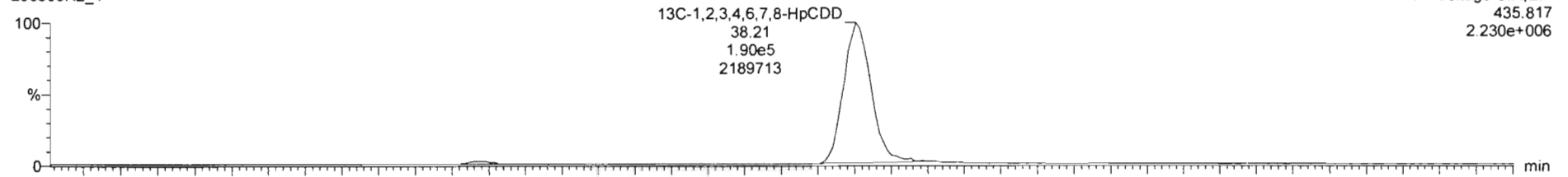


200306R2_1

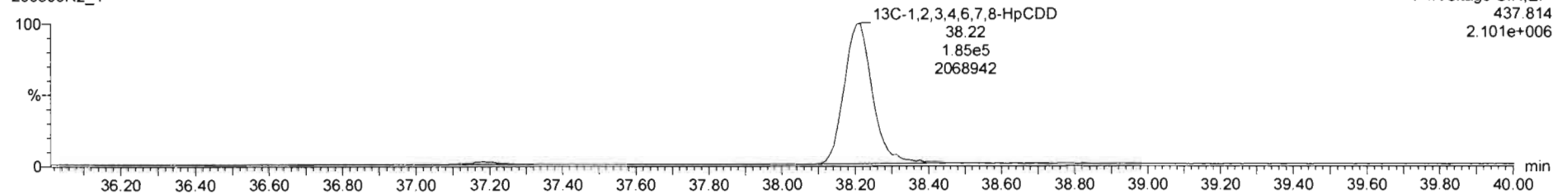


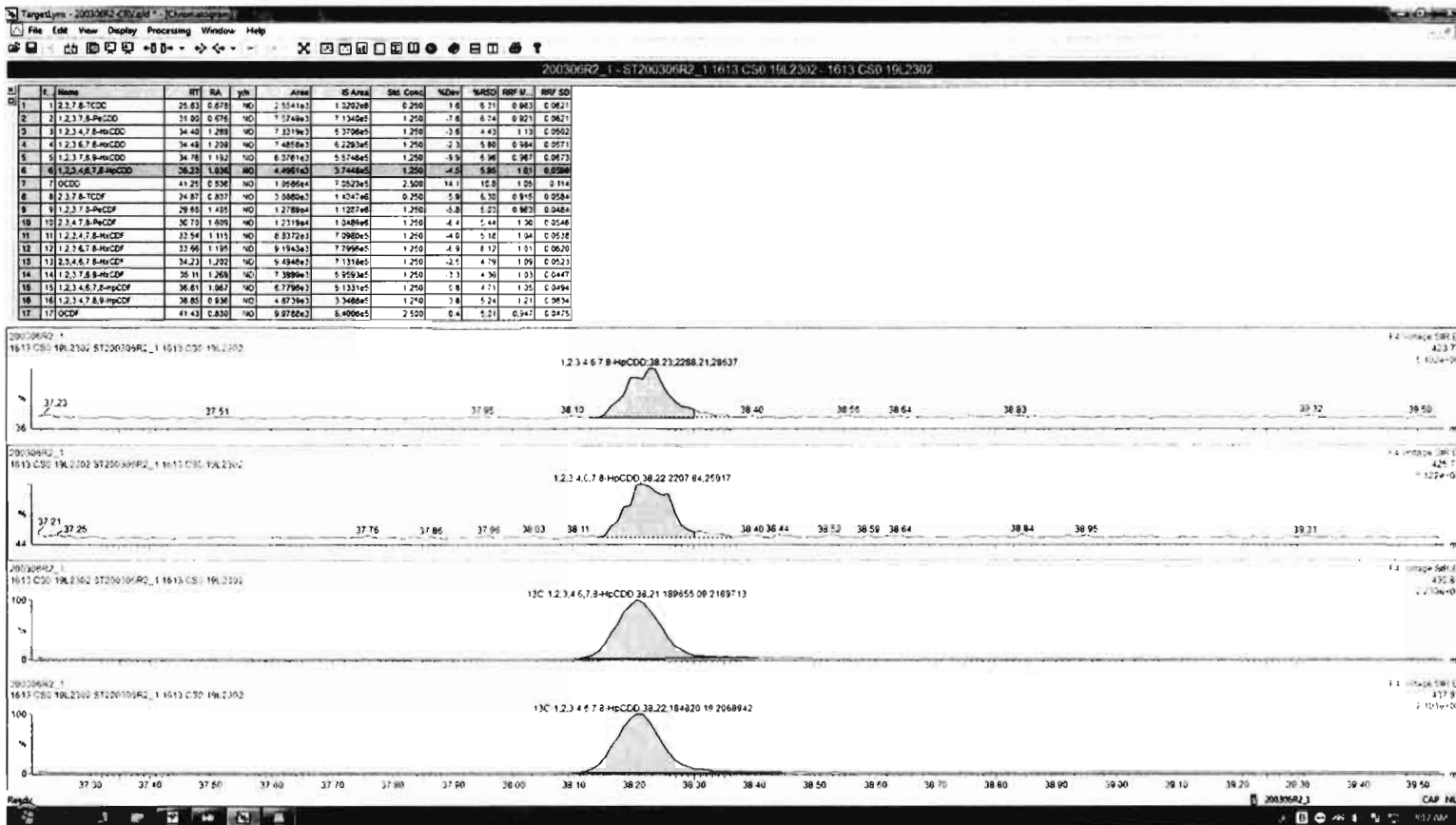
13C-1,2,3,4,6,7,8-HpCDD

200306R2_1



200306R2_1





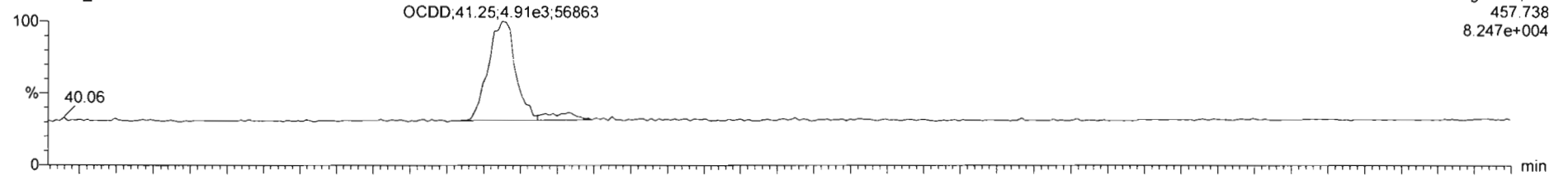
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

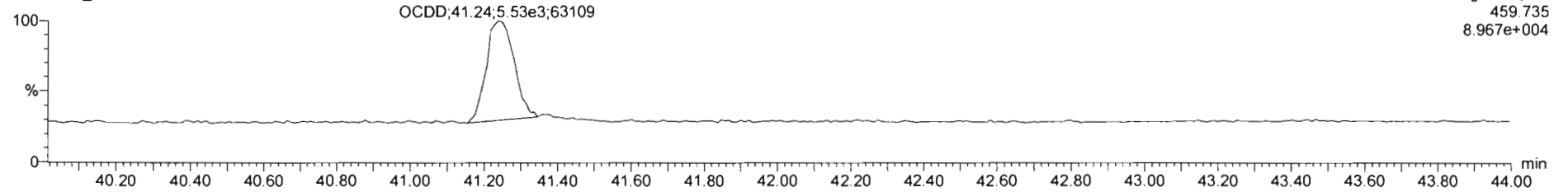
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

OCDD

200306R2_1



200306R2_1

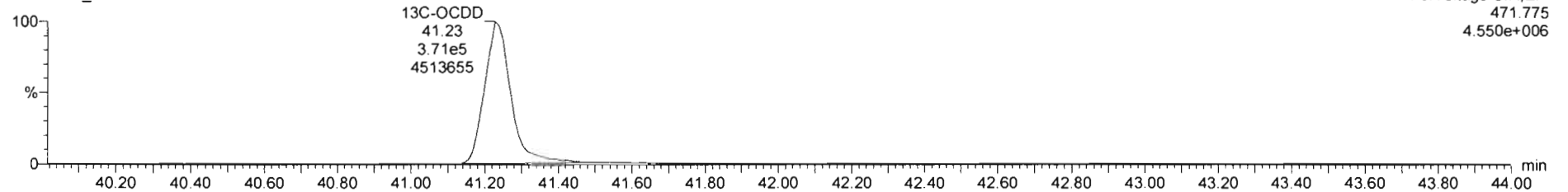


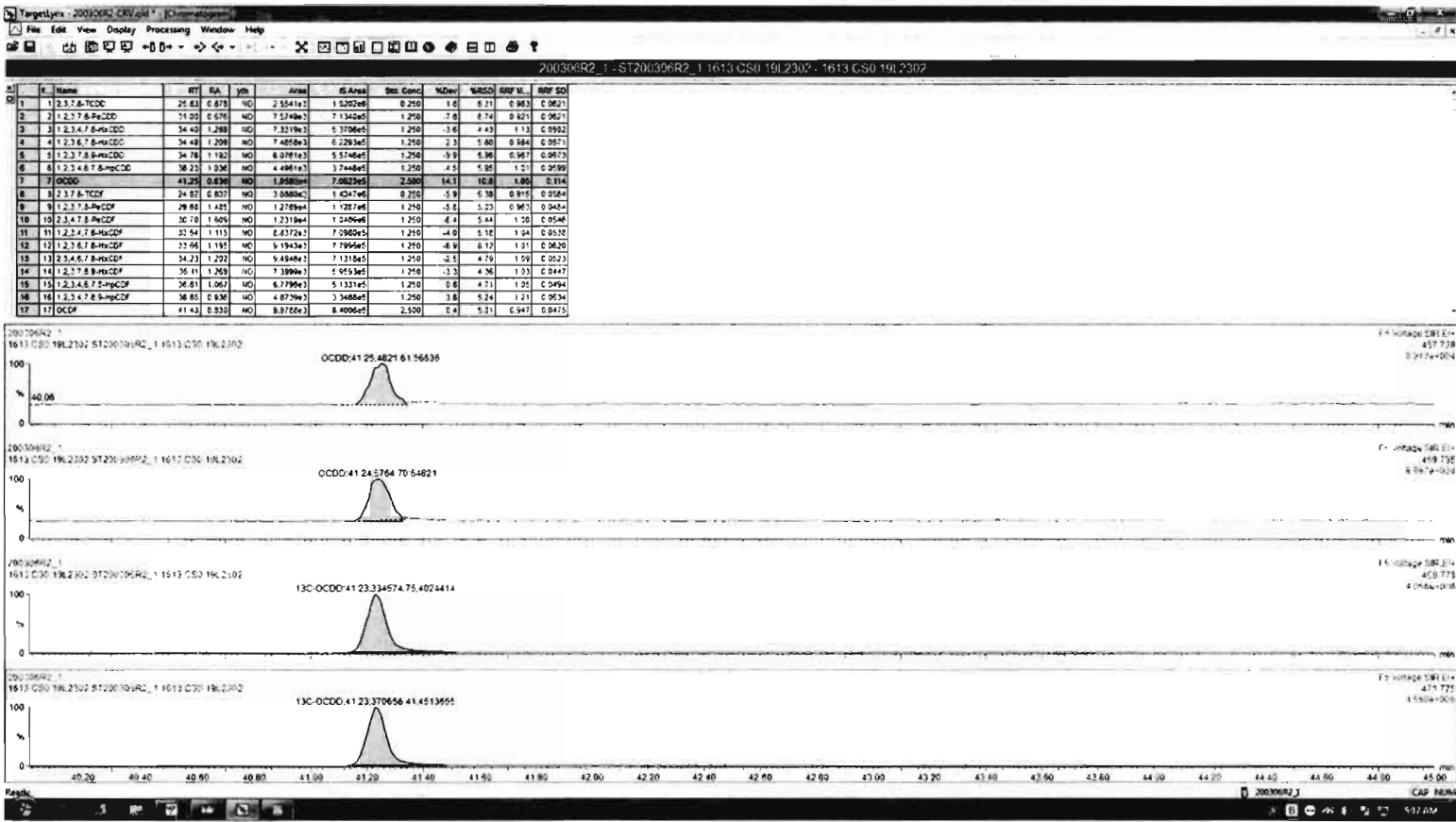
13C-OCDD

200306R2_1



200306R2_1





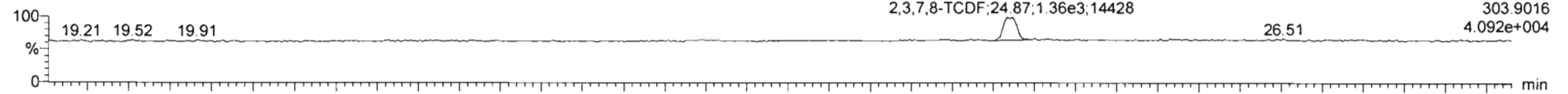
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

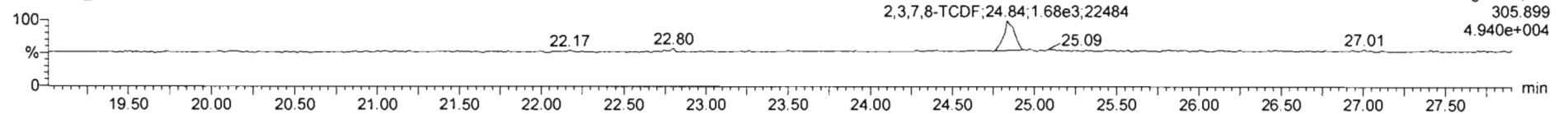
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2,3,7,8-TCDF

200306R2_1

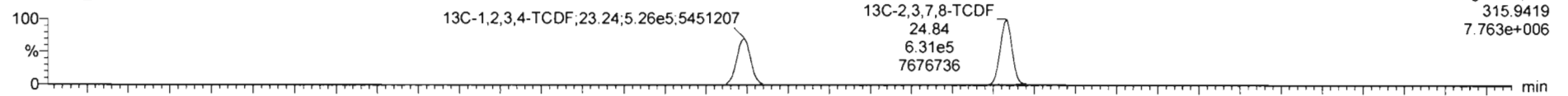


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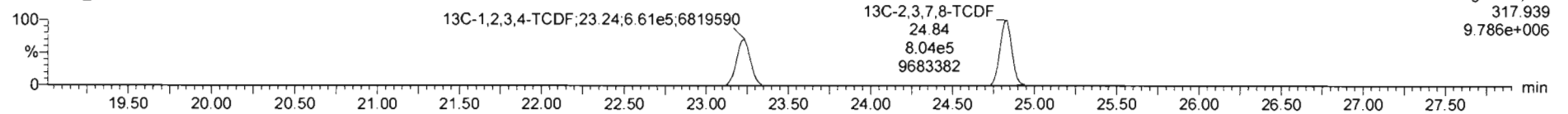


13C-2,3,7,8-TCDF

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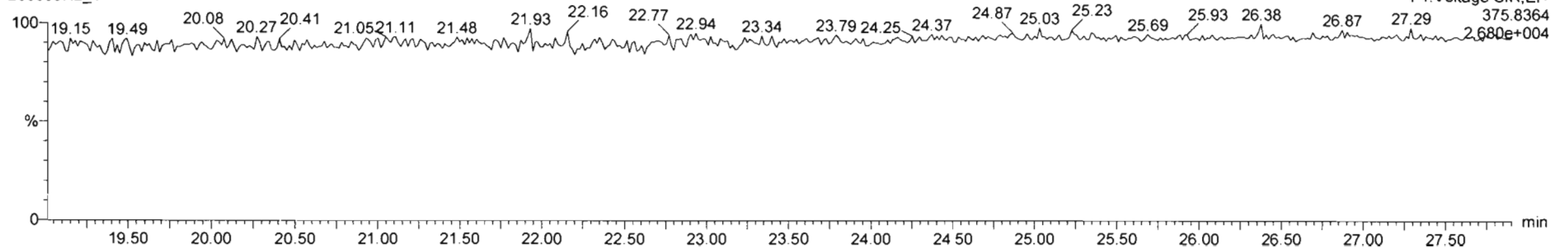


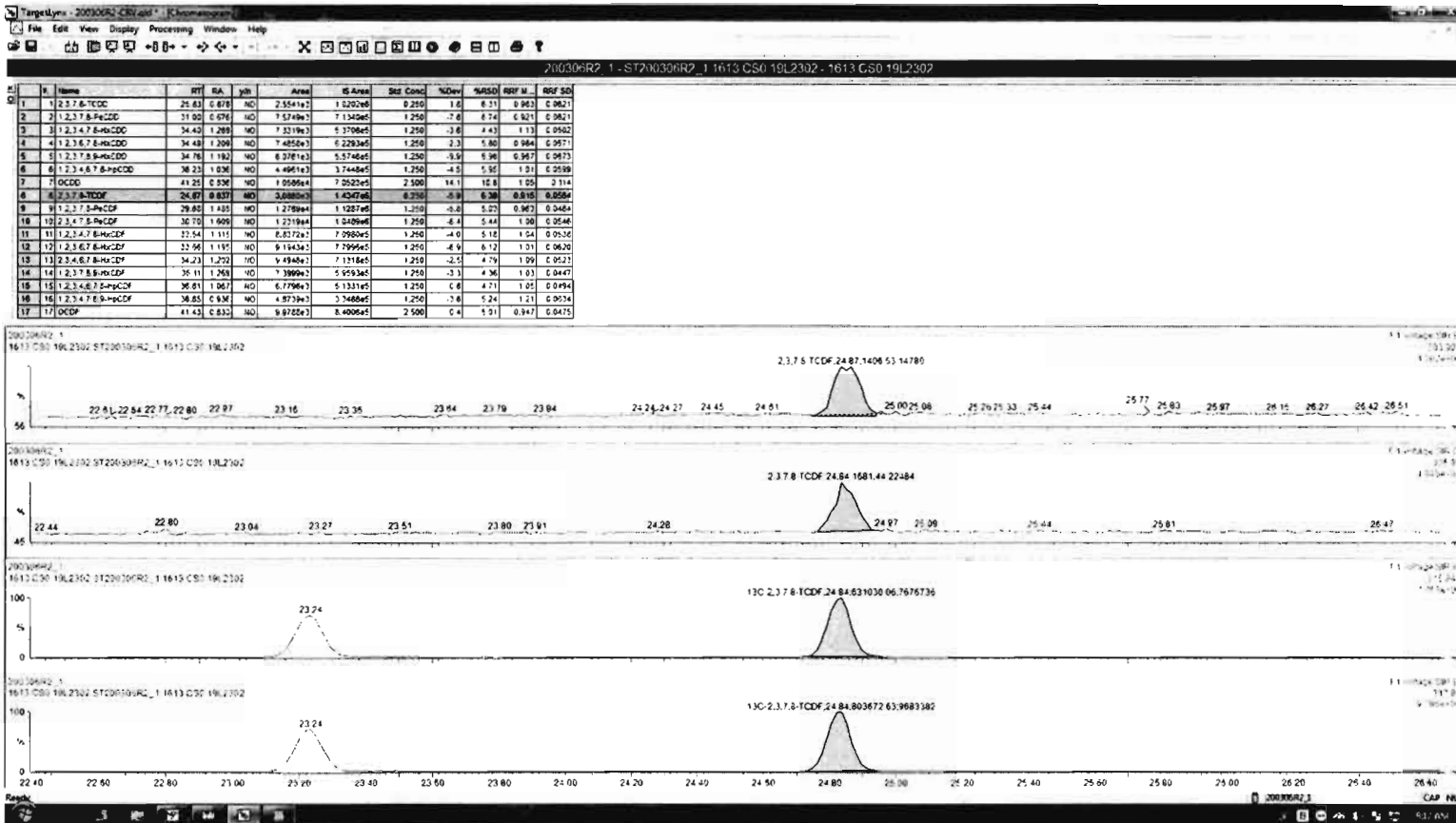
200306R2_1



DPE1

200306R2_1





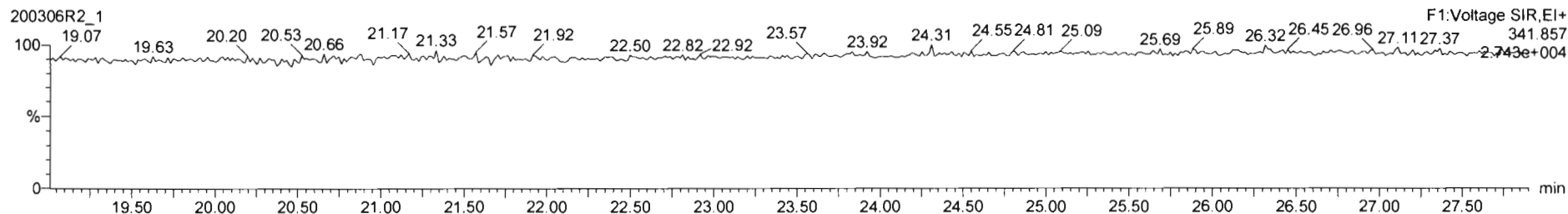
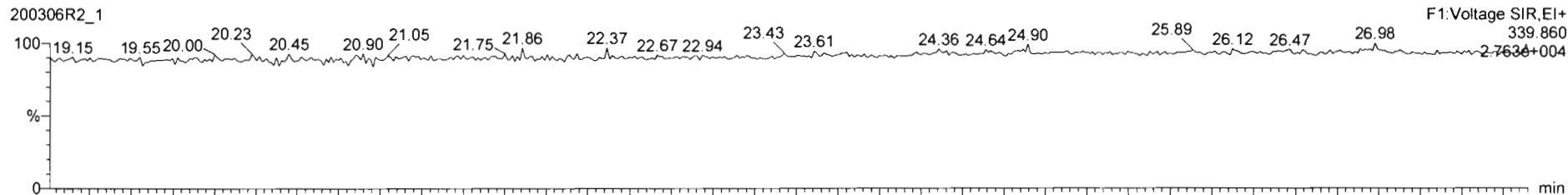
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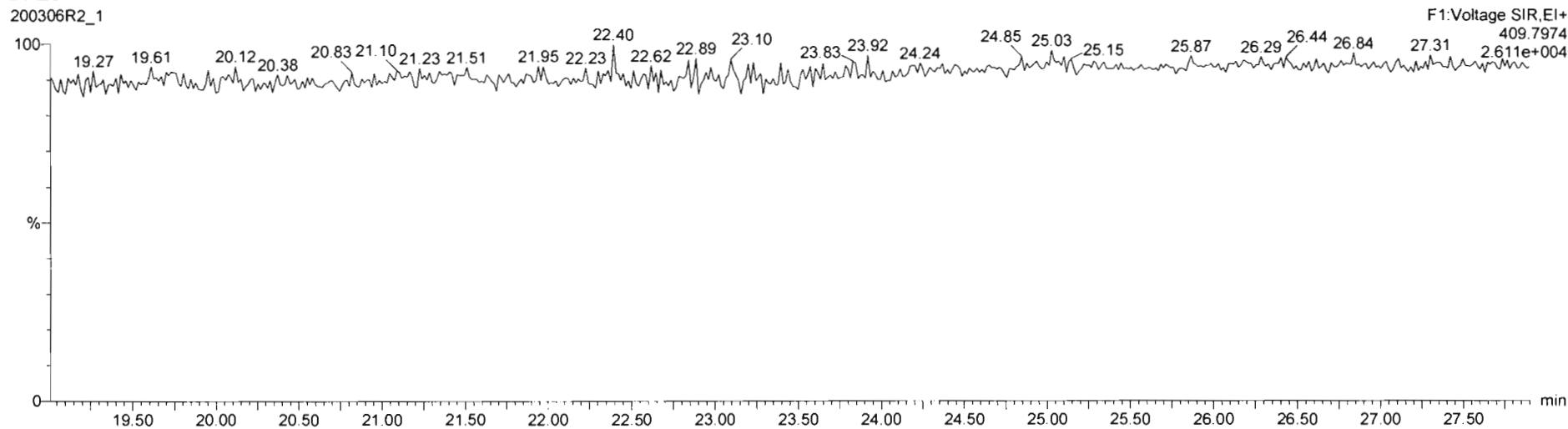
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1st Func. Penta-Furans



DPE6



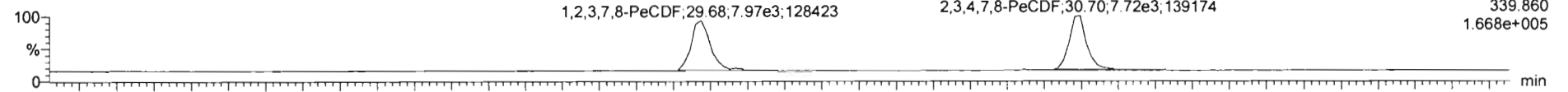
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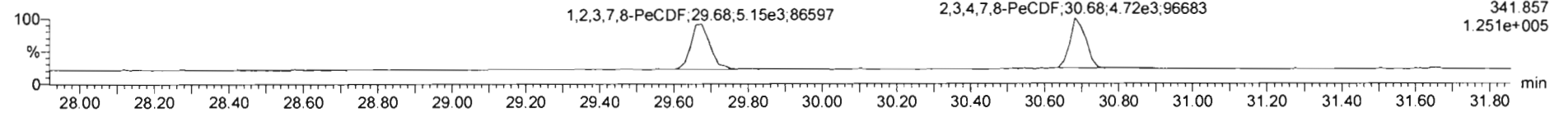
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1,2,3,7,8-PeCDF

200306R2_1

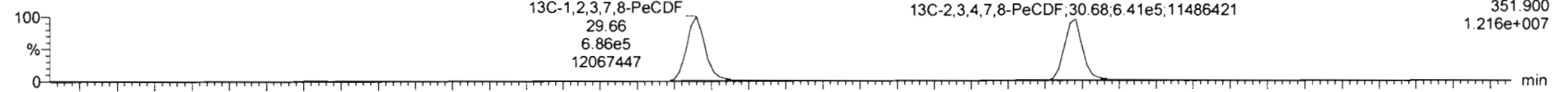


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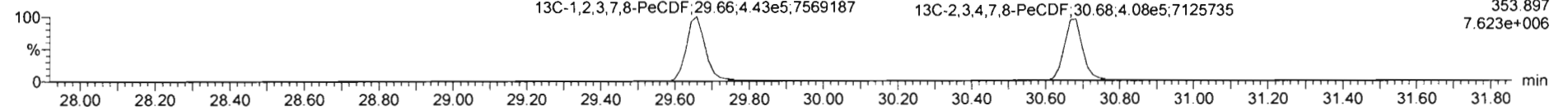


13C-1,2,3,7,8-PeCDF

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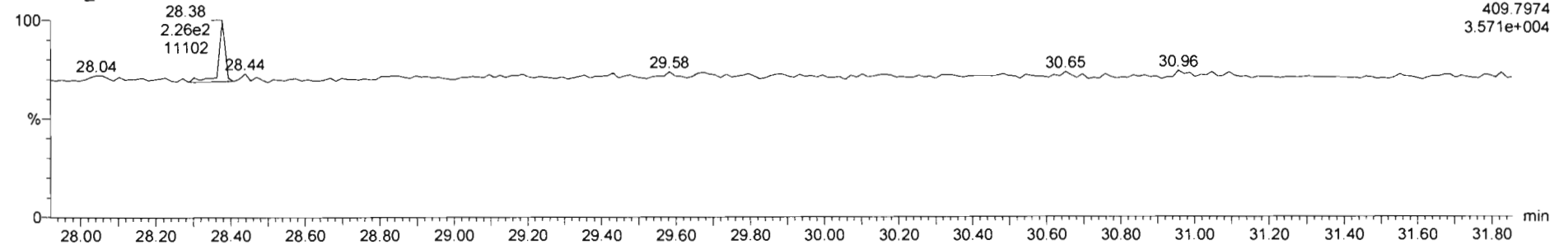


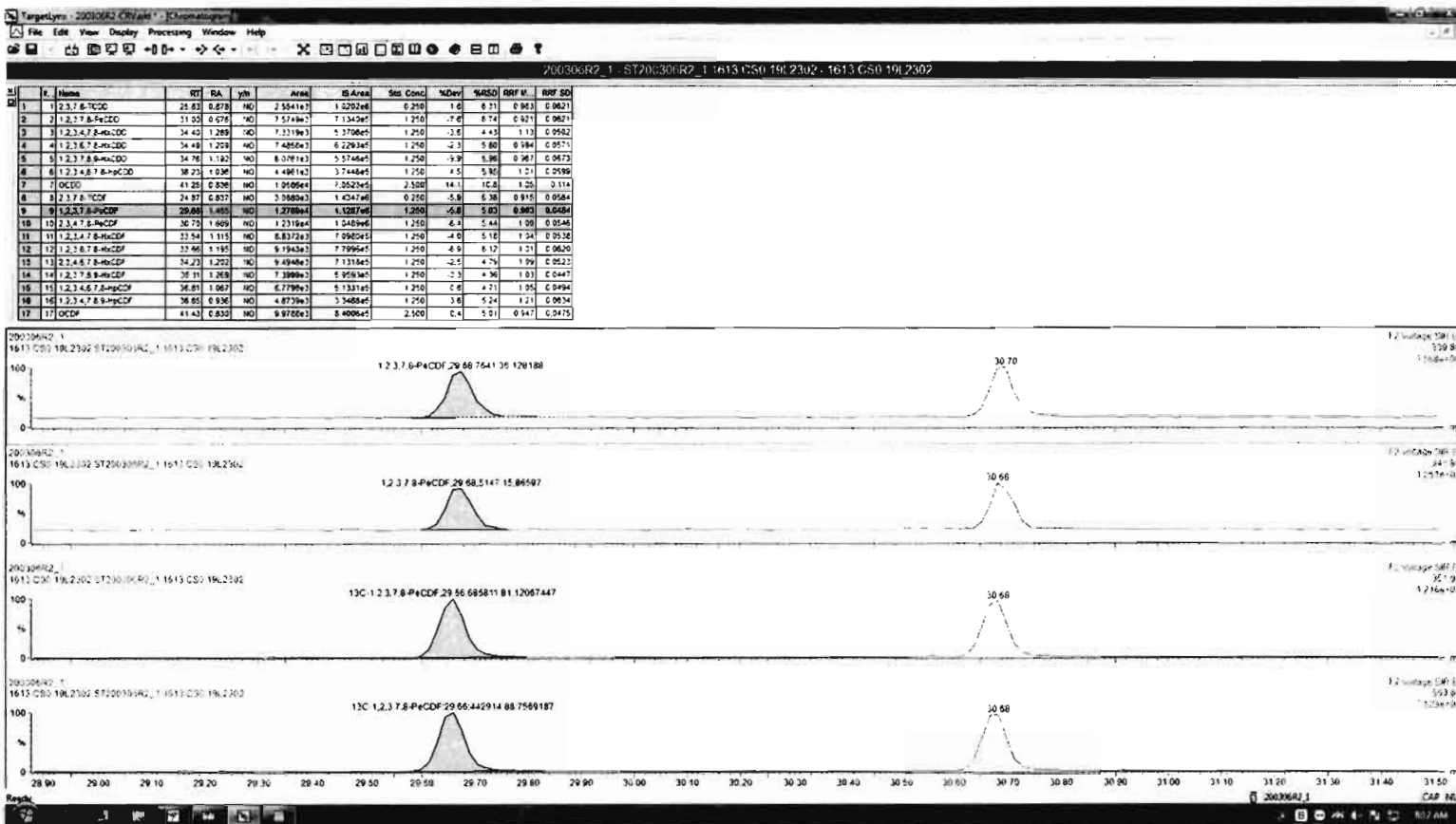
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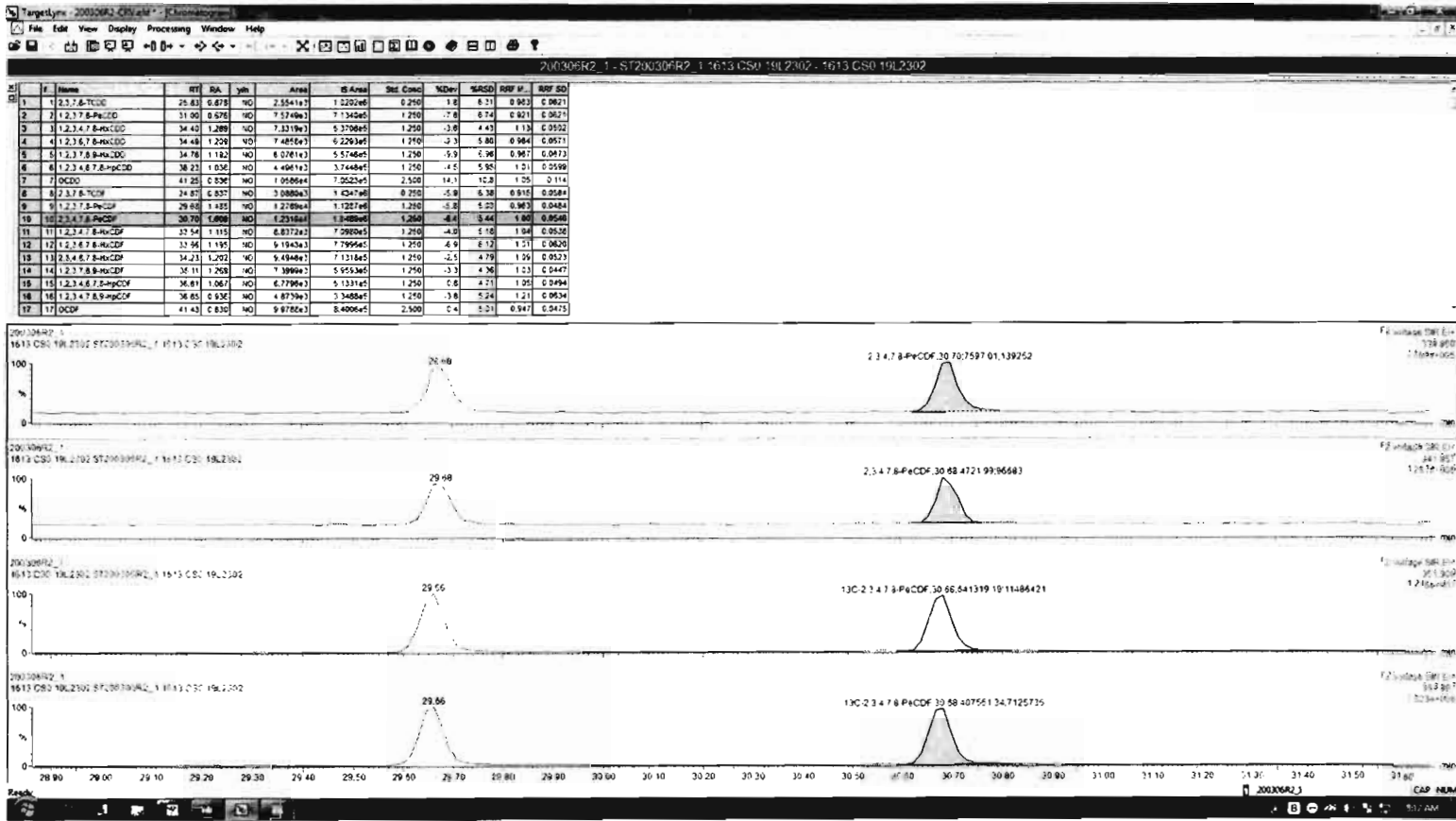


DPE2

200306R2_1







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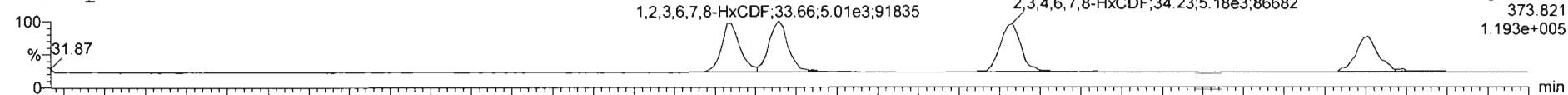
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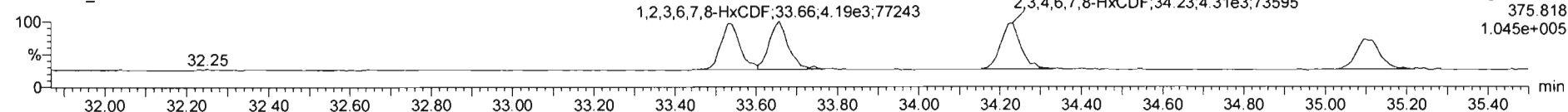
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1,2,3,4,7,8-HxCDF

200306R2_1

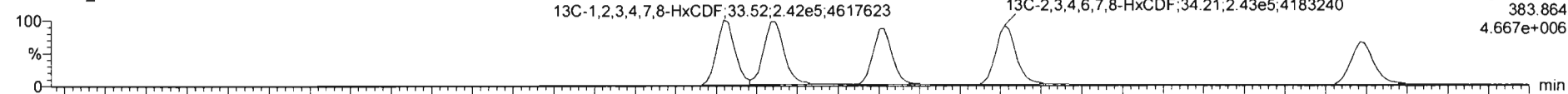


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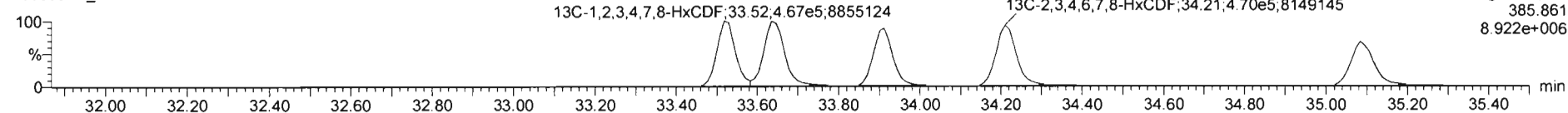


13C-1,2,3,4,7,8-HxCDF

200306R2_1

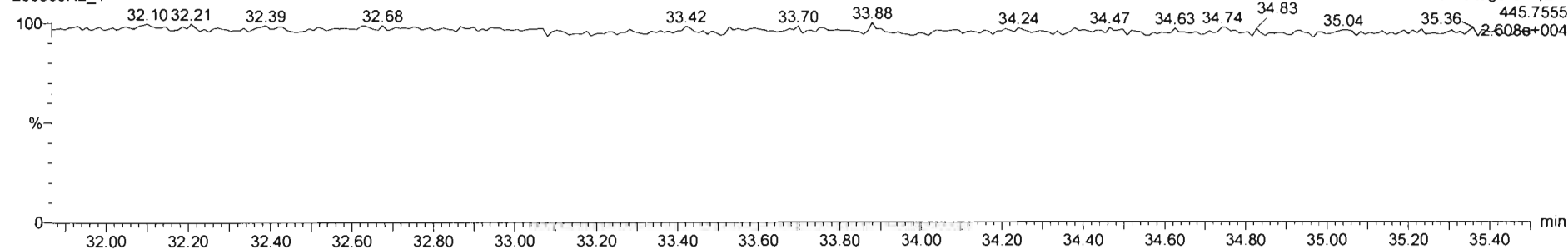


200306R2_1



DPE3

200306R2_1

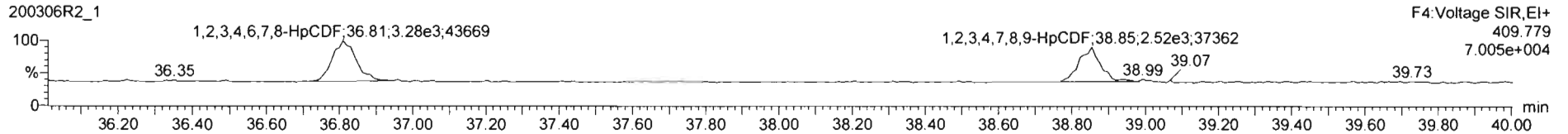
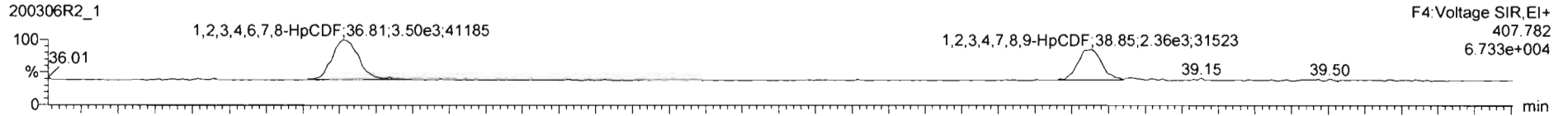


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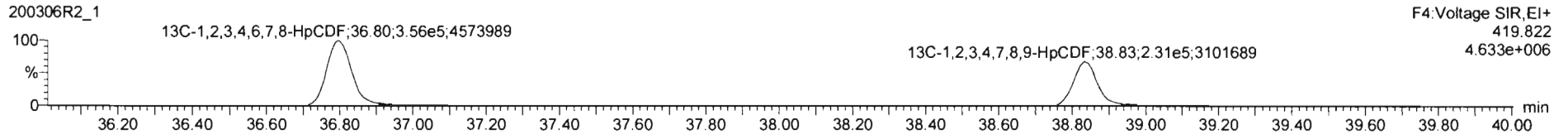
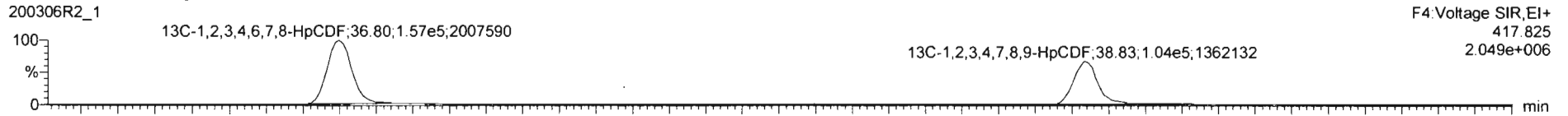
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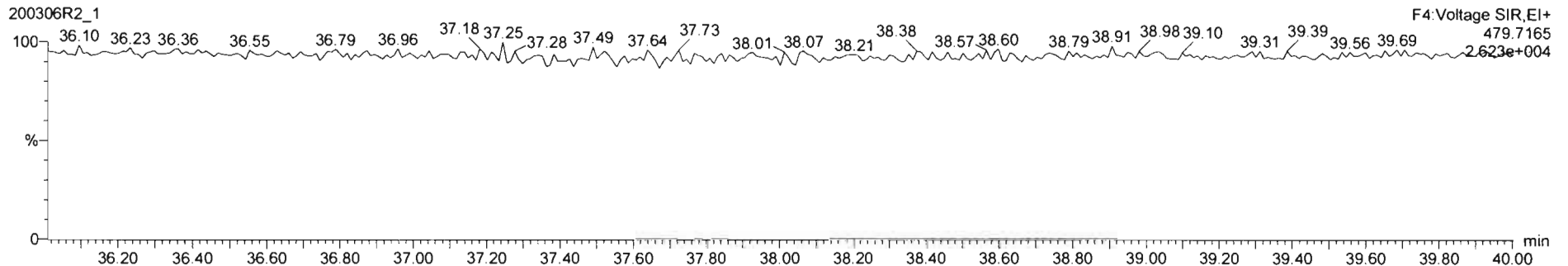
1,2,3,4,6,7,8-HpCDF



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



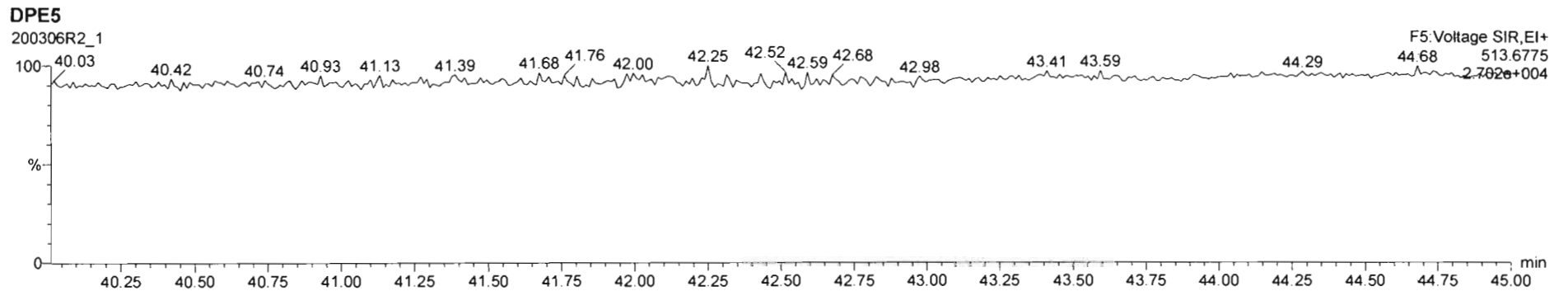
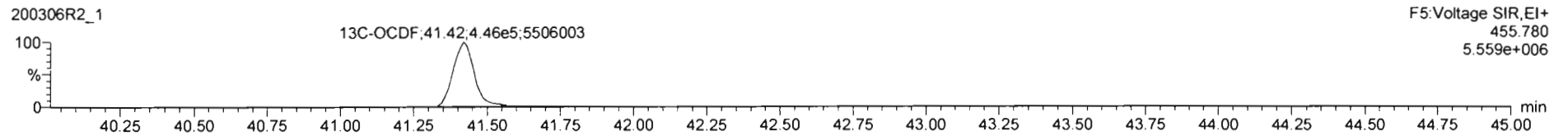
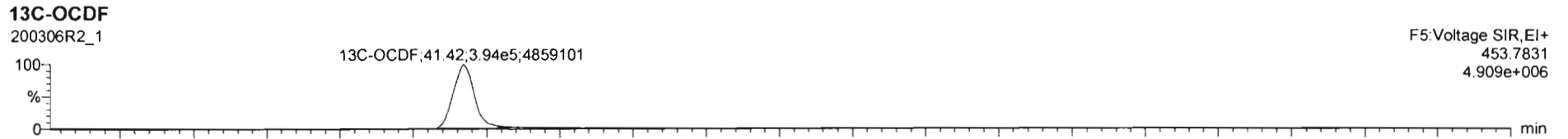
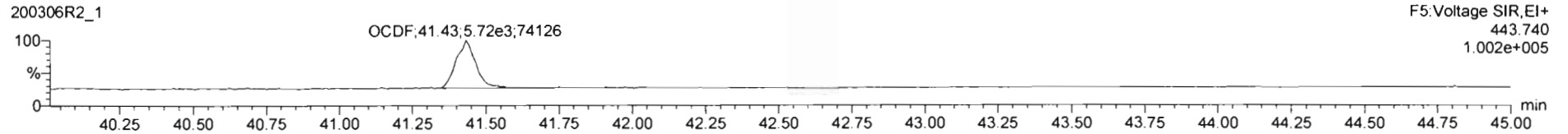
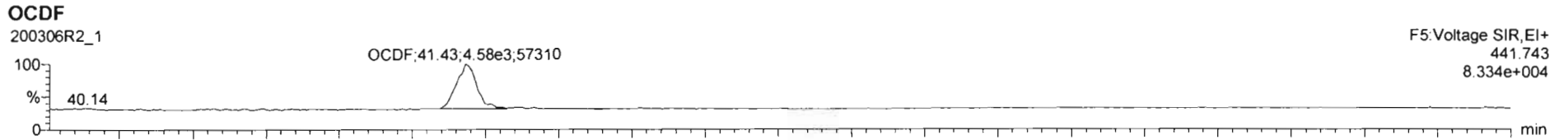
DPE4

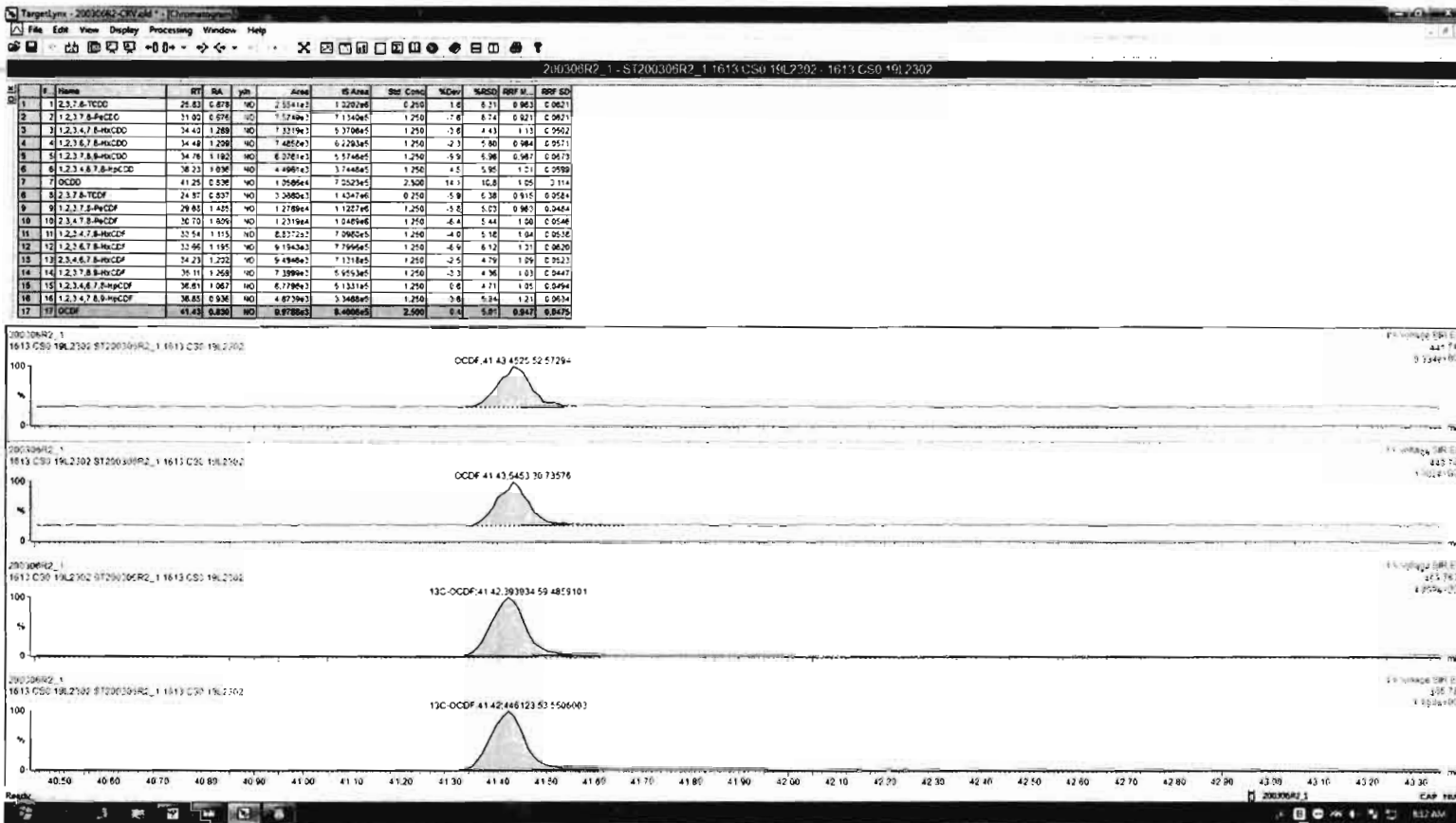


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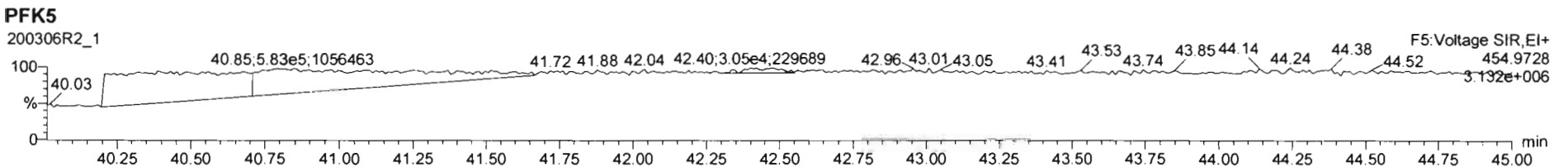
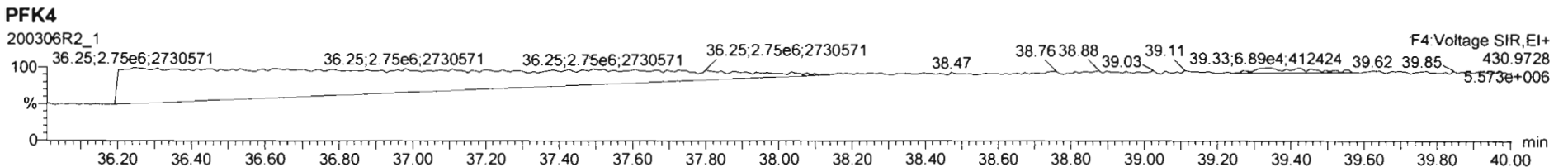
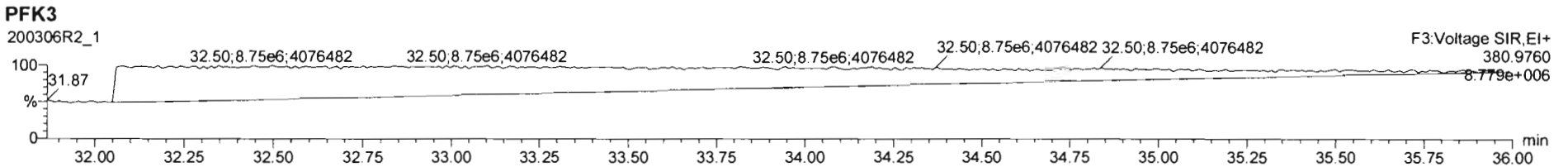
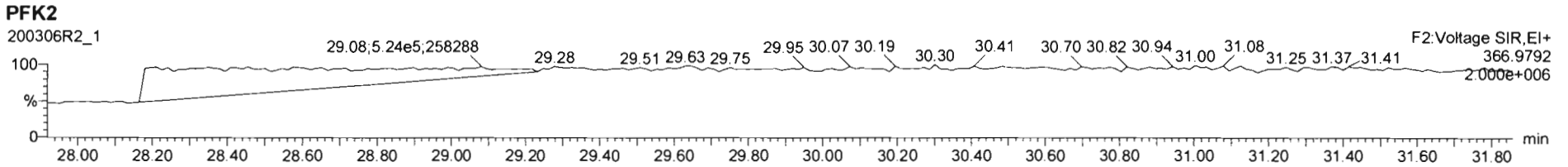
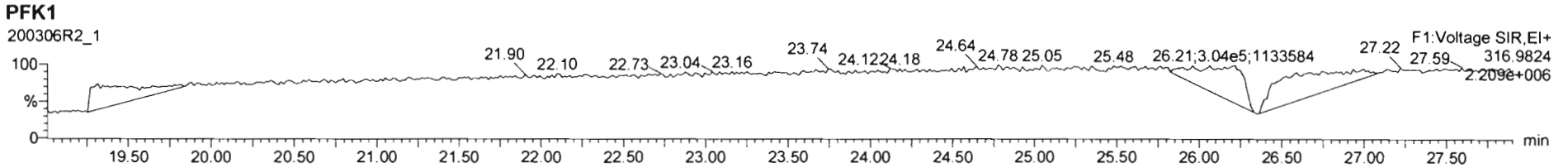




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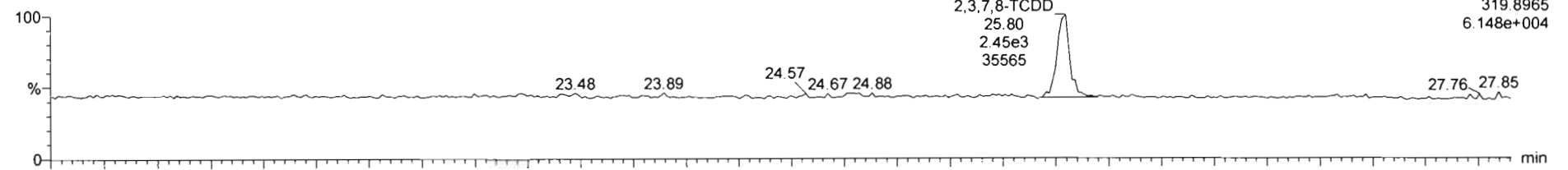
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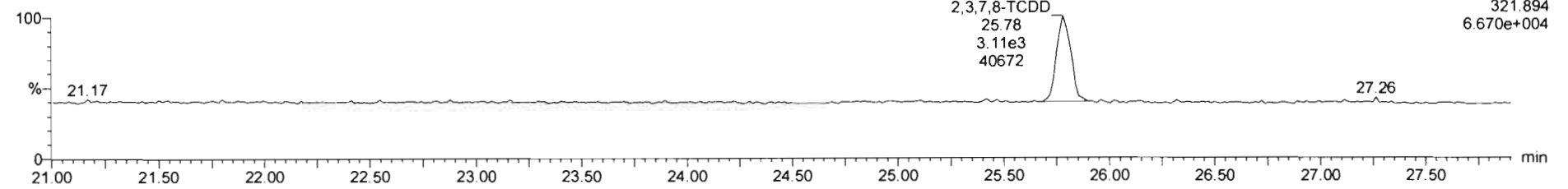
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2,3,7,8-TCDD

200306R2_2

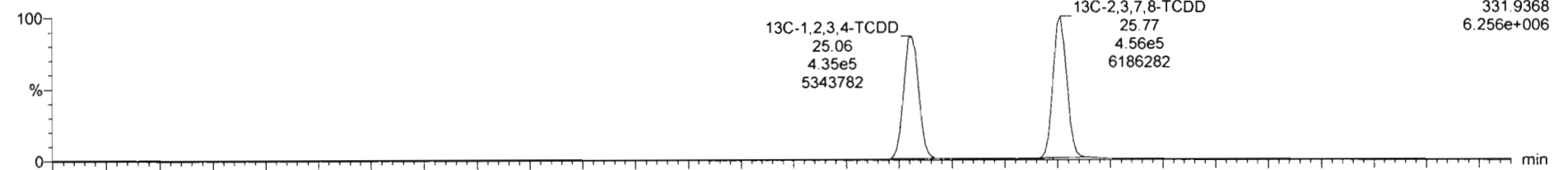


200306R2_2

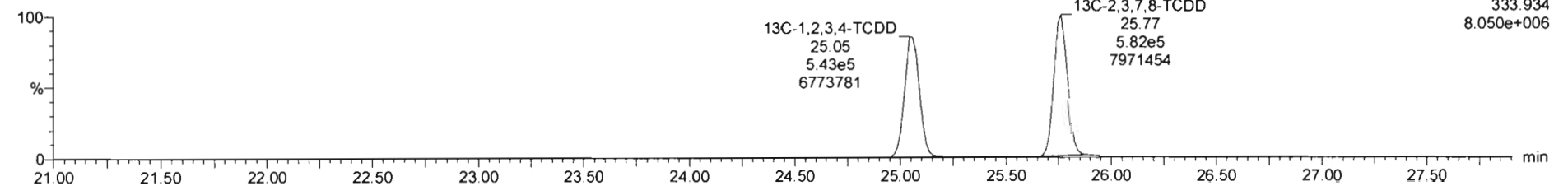


13C-2,3,7,8-TCDD

200306R2_2



200306R2_2



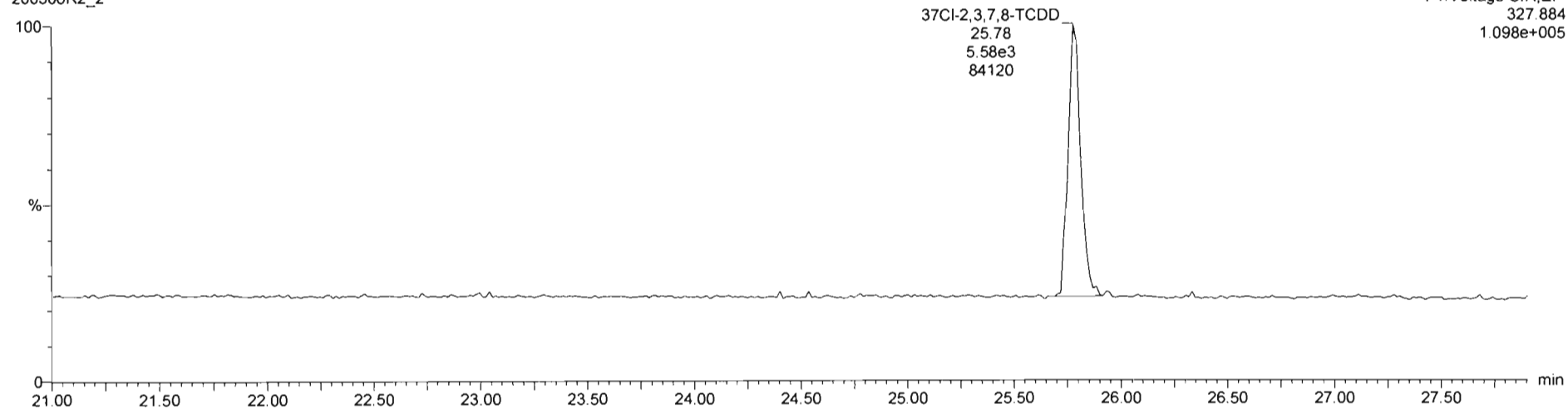
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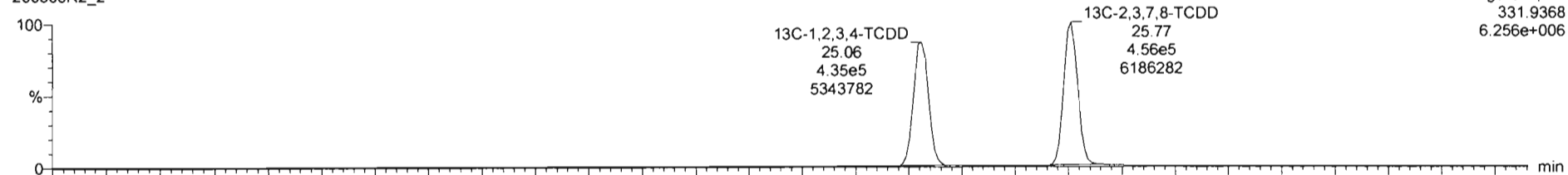
37Cl-2,3,7,8-TCDD

200306R2_2

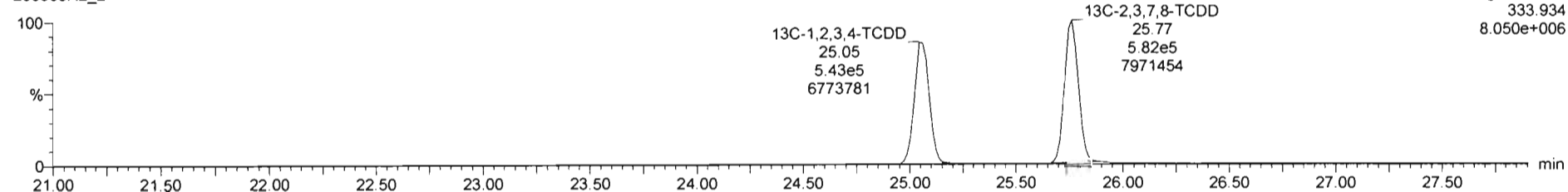


13C-1,2,3,4-TCDD

200306R2_2



200306R2_2



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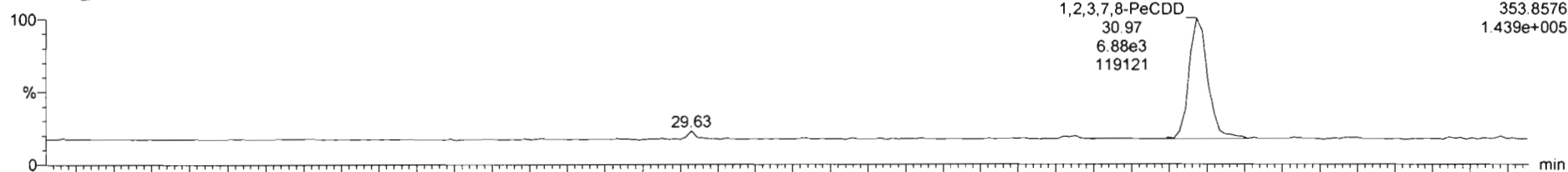
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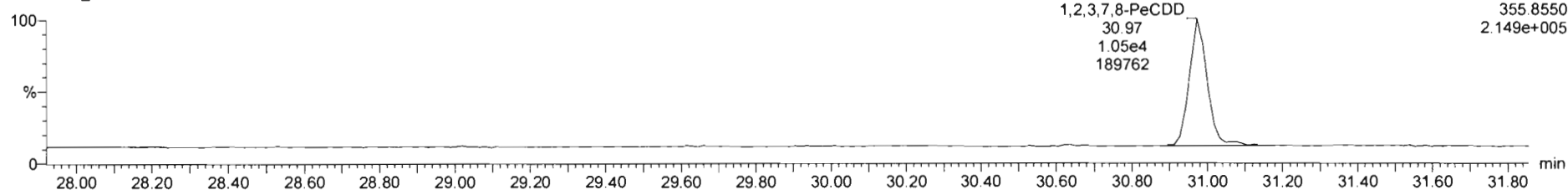
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1,2,3,7,8-PeCDD

200306R2_2



200306R2_2

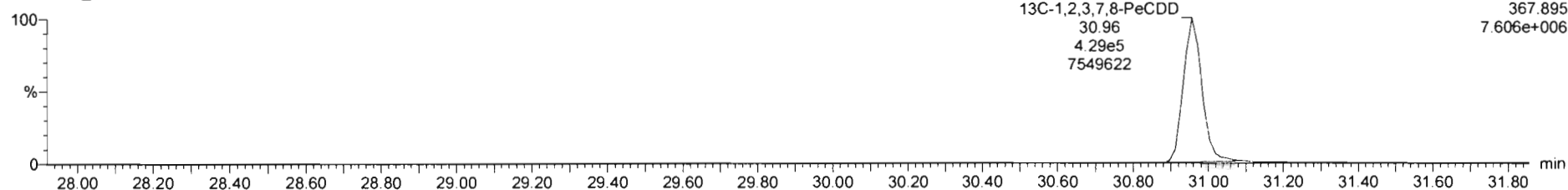


13C-1,2,3,7,8-PeCDD

200306R2_2



200306R2_2



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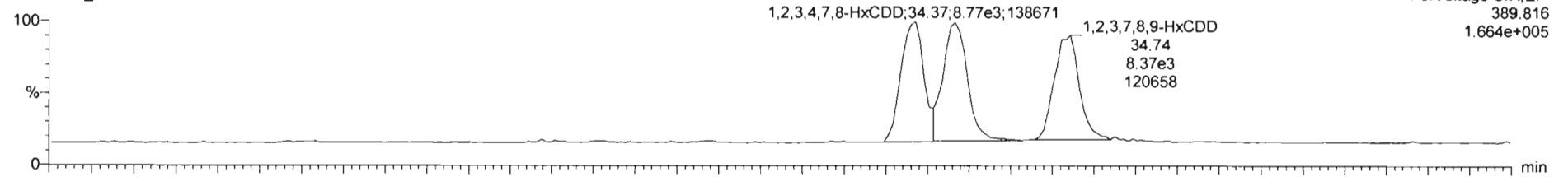
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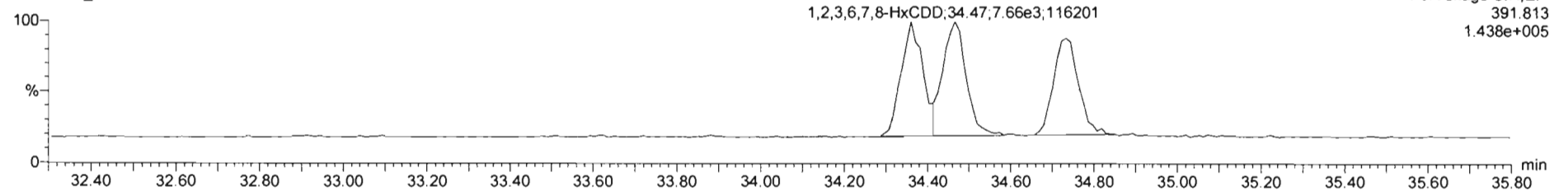
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1,2,3,4,7,8-HxCDD

200306R2_2

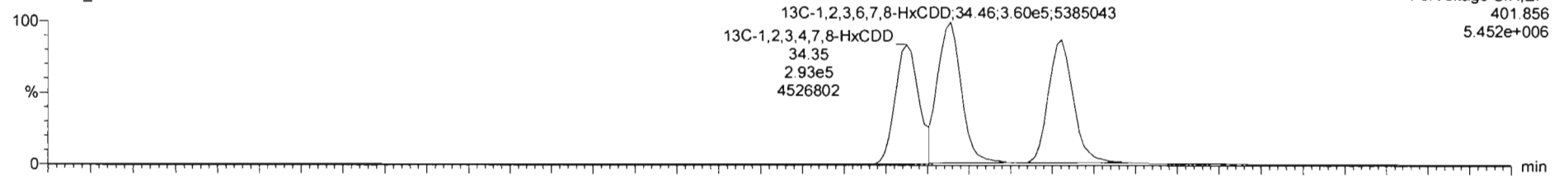


200306R2_2

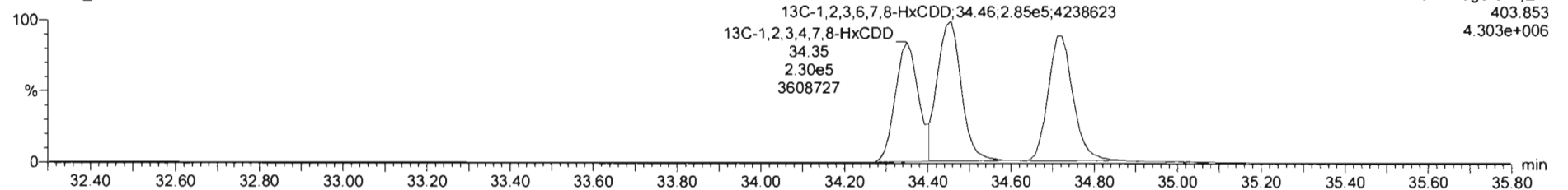


13C-1,2,3,4,7,8-HxCDD

200306R2_2



200306R2_2



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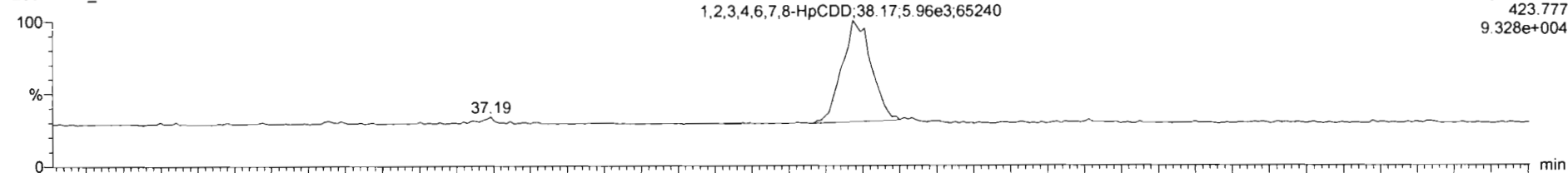
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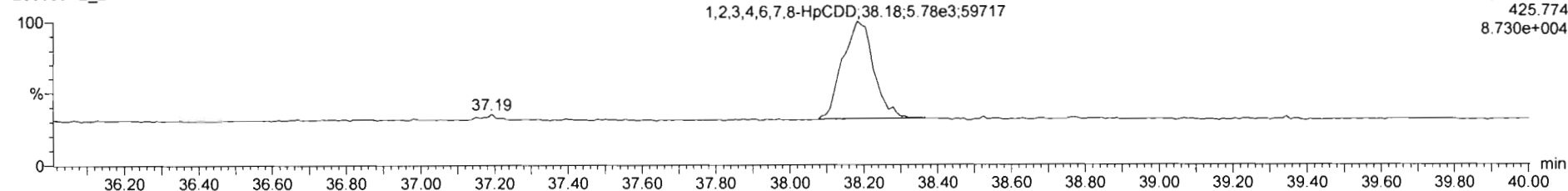
1,2,3,4,6,7,8-HpCDD

200306R2_2



F4: Voltage SIR, EI+
423.777
9.328e+004

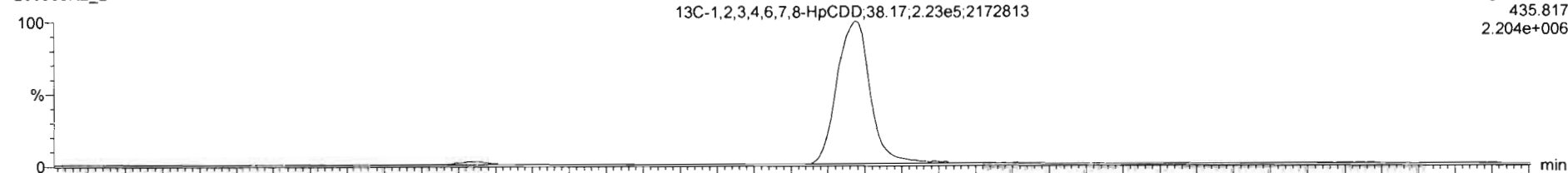
200306R2_2



F4: Voltage SIR, EI+
425.774
8.730e+004

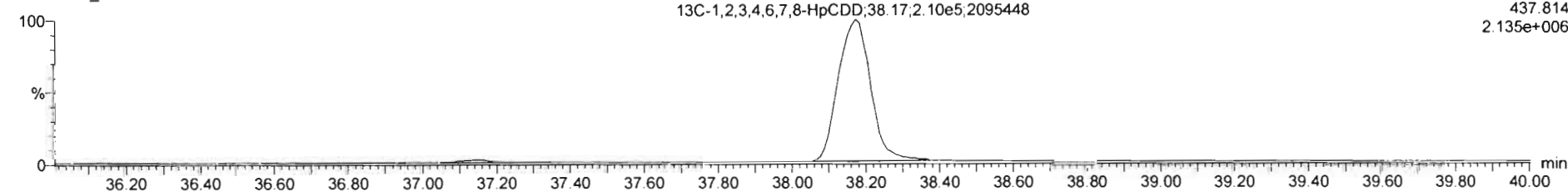
13C-1,2,3,4,6,7,8-HpCDD

200306R2_2



F4: Voltage SIR, EI+
435.817
2.204e+006

200306R2_2



F4: Voltage SIR, EI+
437.814
2.135e+006

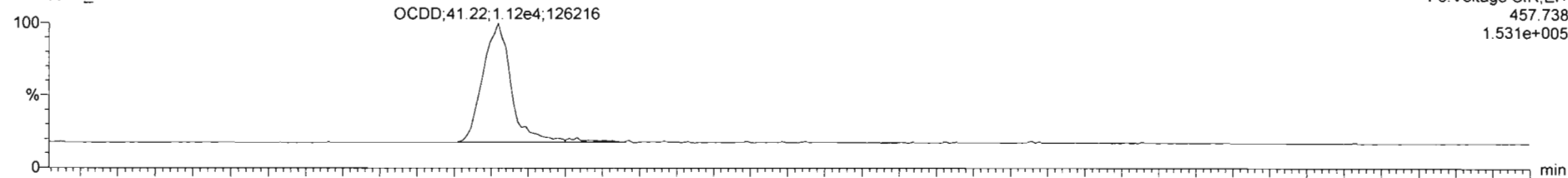
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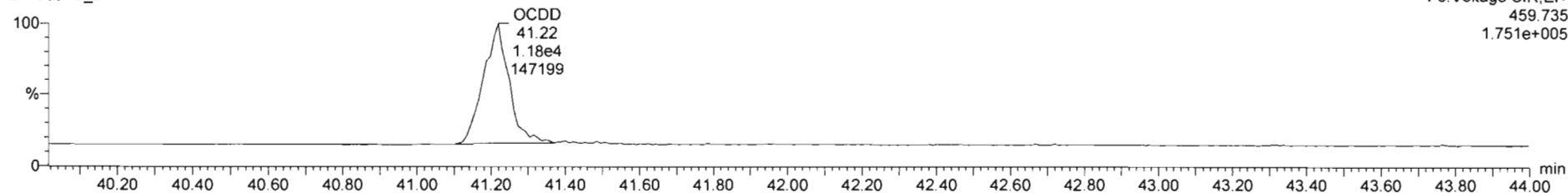
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OCDD

200306R2_2

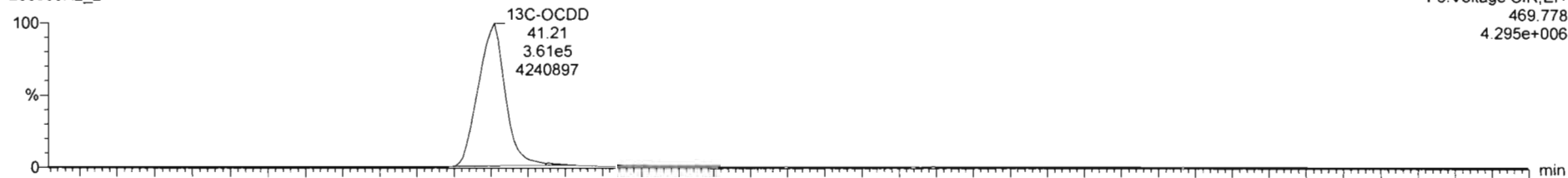


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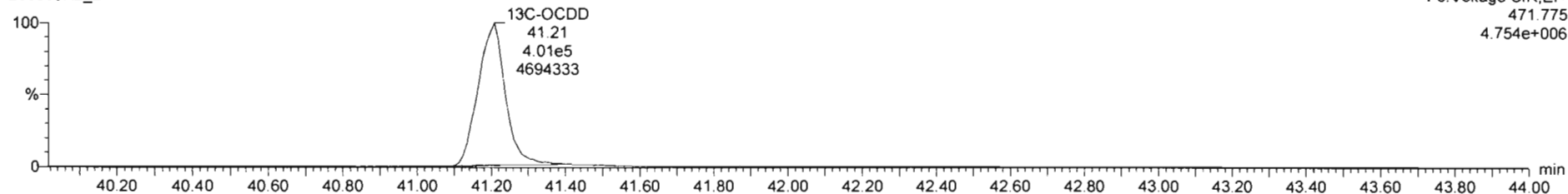


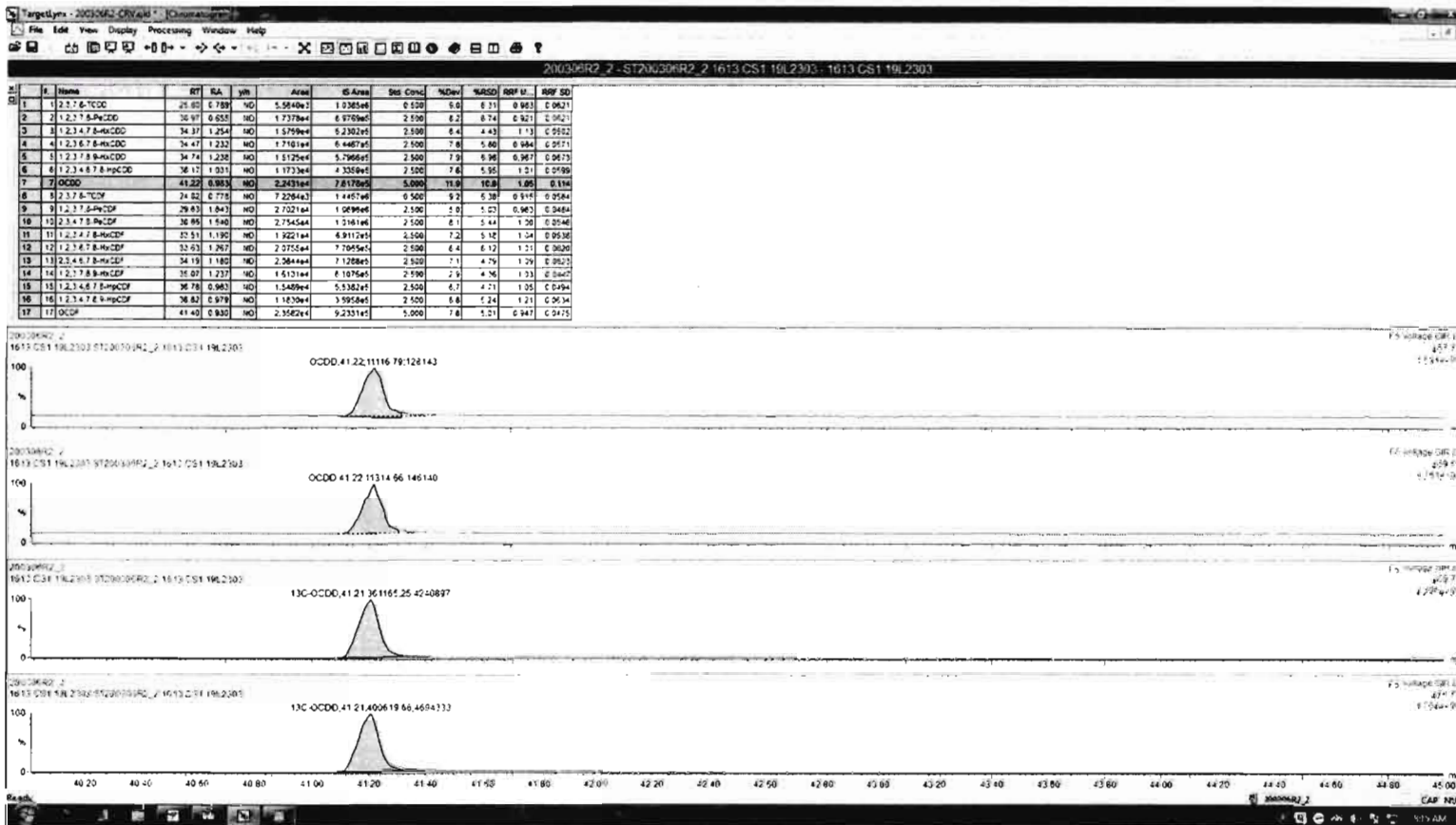
13C-OCDD

200306R2_2



200306R2_2





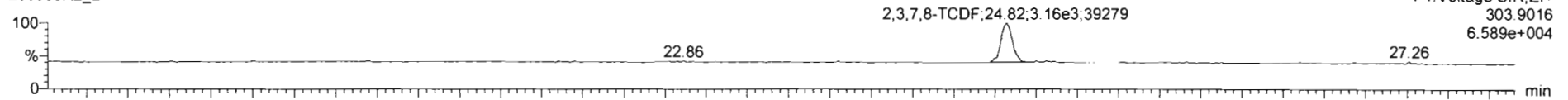
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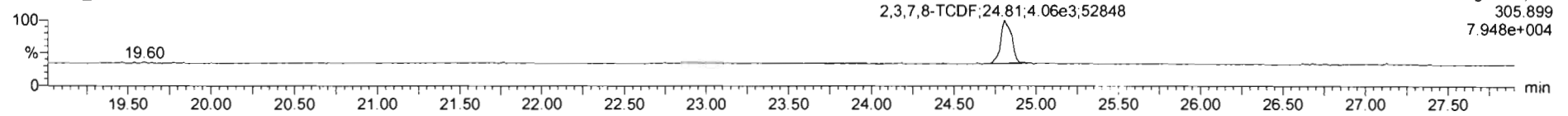
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2,3,7,8-TCDF

200306R2_2

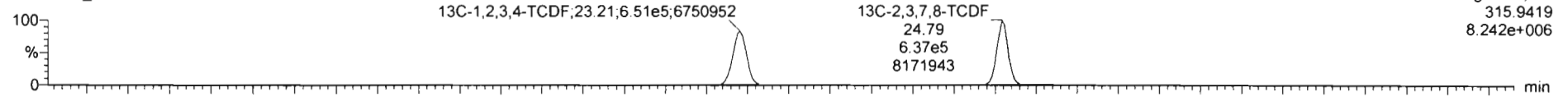


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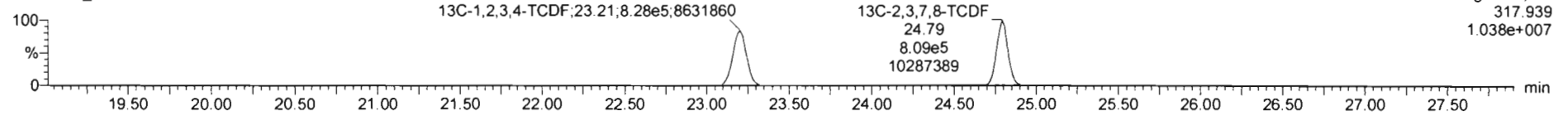


13C-2,3,7,8-TCDF

200306R2_2

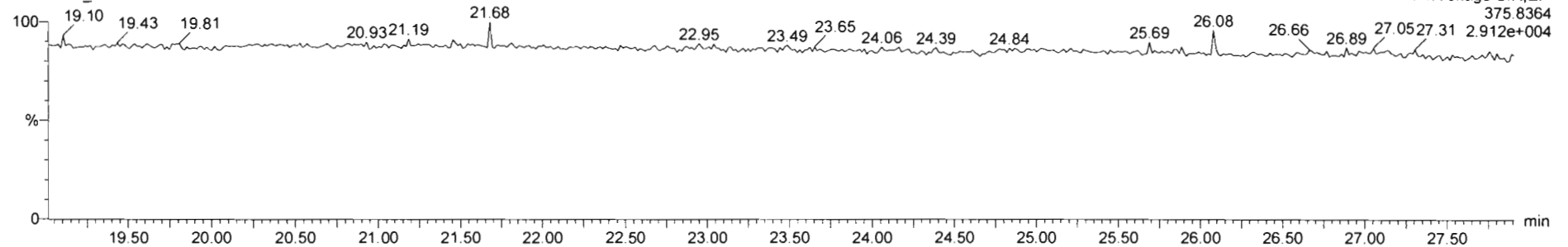


200306R2_2



DPE1

200306R2_2



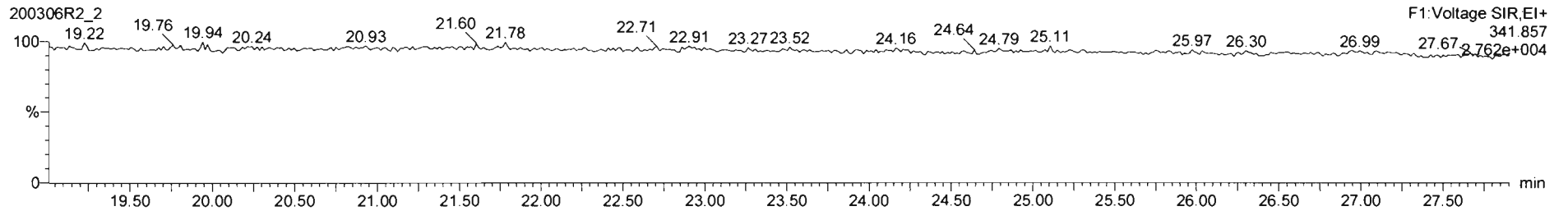
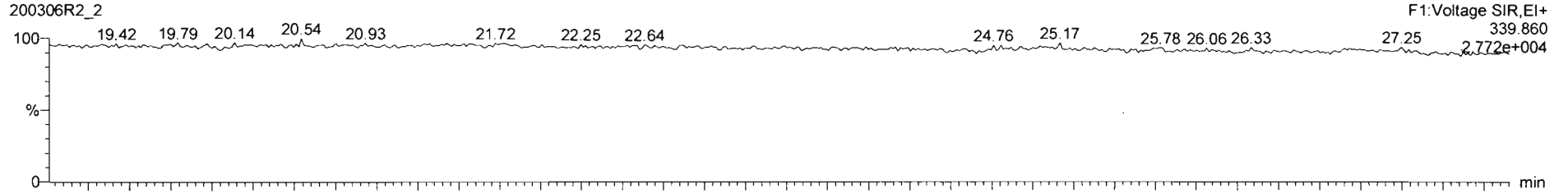
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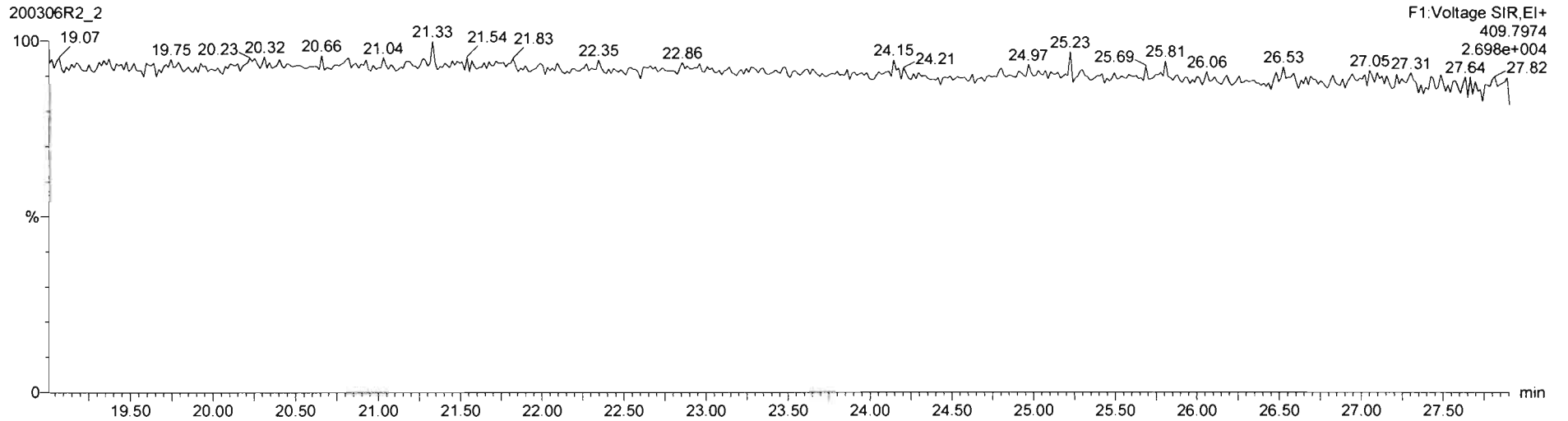
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Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

1st Func. Penta-Furans



DPE6



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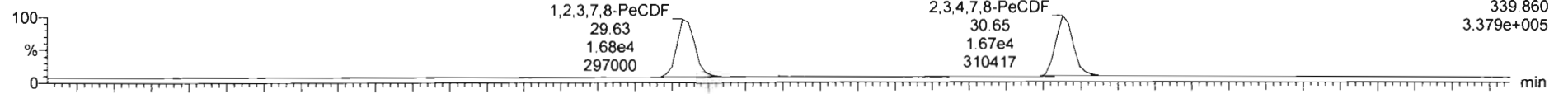
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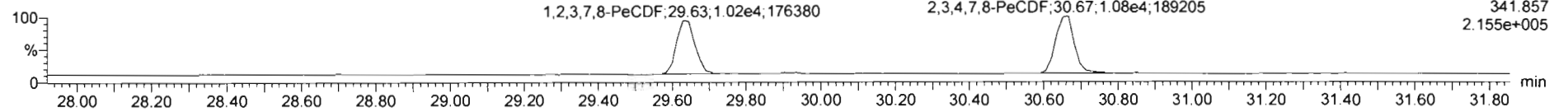
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1,2,3,7,8-PeCDF

200306R2_2

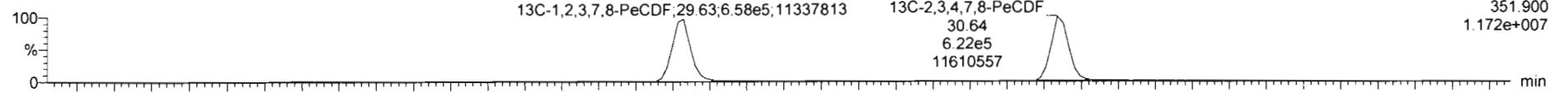


200306R2_2

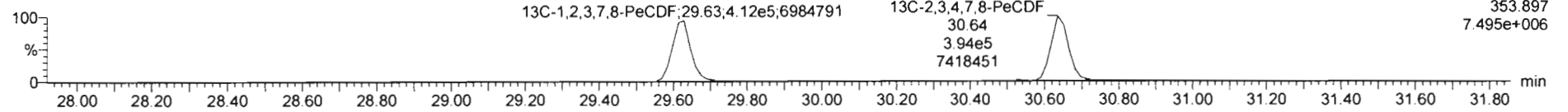


13C-1,2,3,7,8-PeCDF

200306R2_2

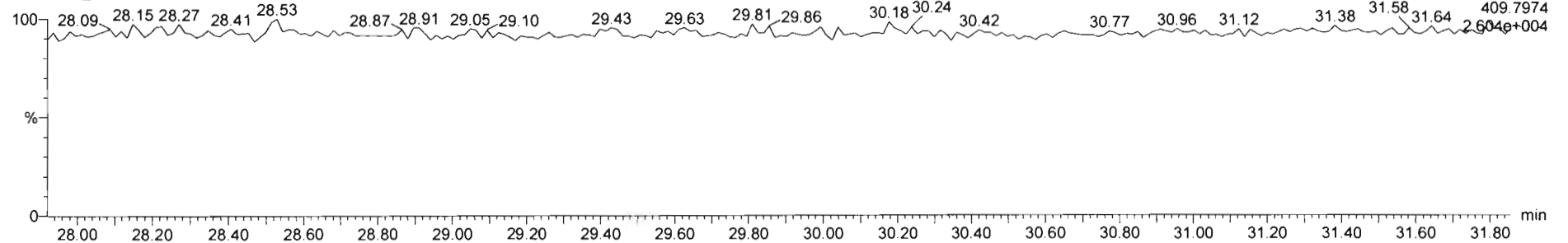


200306R2_2



DPE2

200306R2_2



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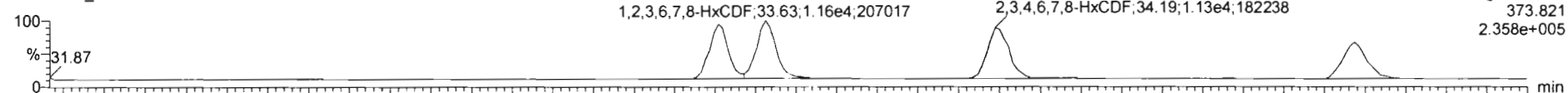
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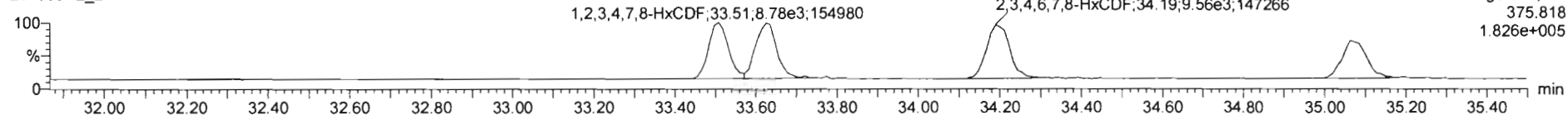
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1,2,3,4,7,8-HxCDF

200306R2_2

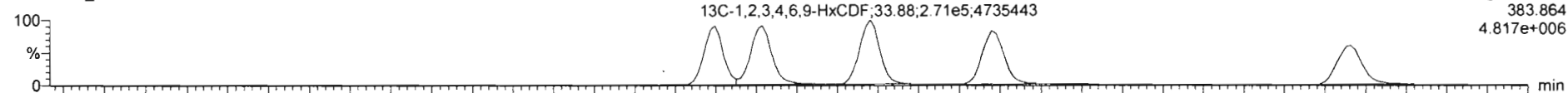


200306R2_2

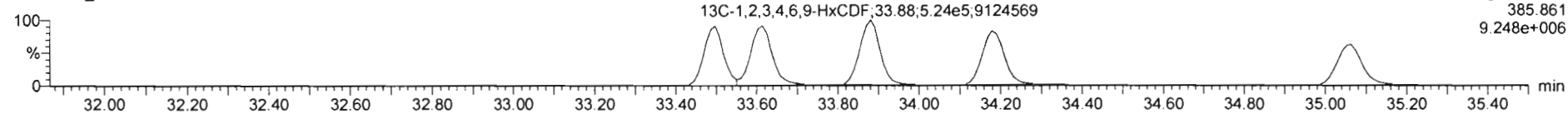


13C-1,2,3,4,7,8-HxCDF

200306R2_2

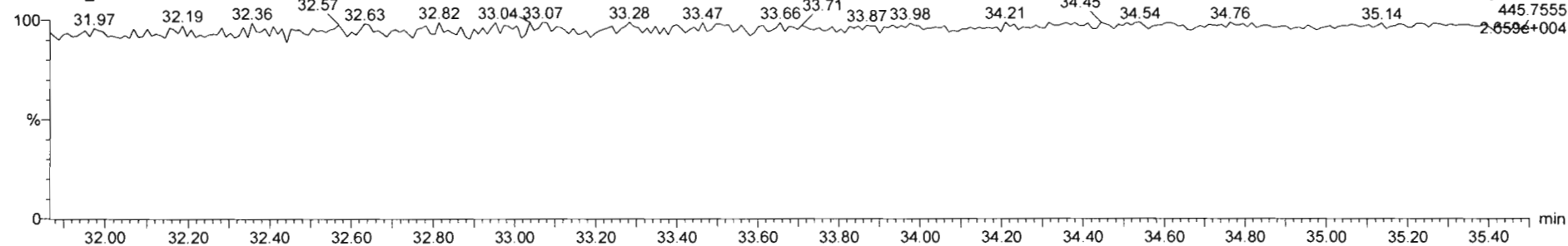


200306R2_2



DPE3

200306R2_2

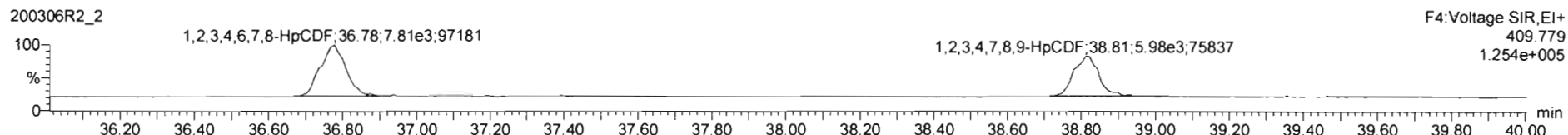
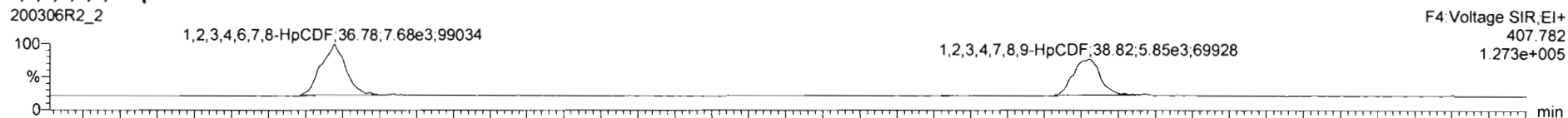


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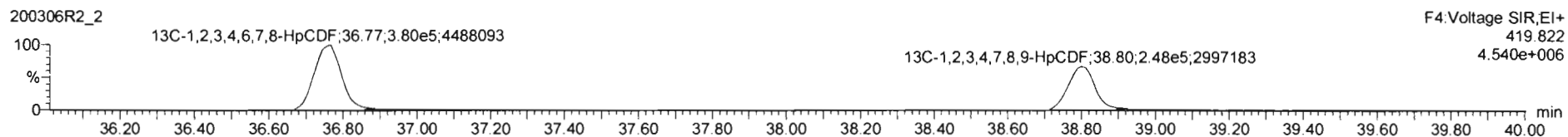
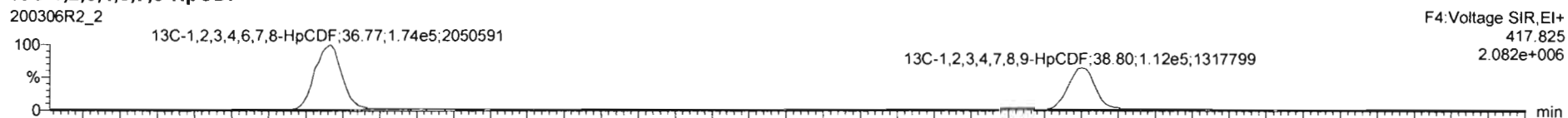
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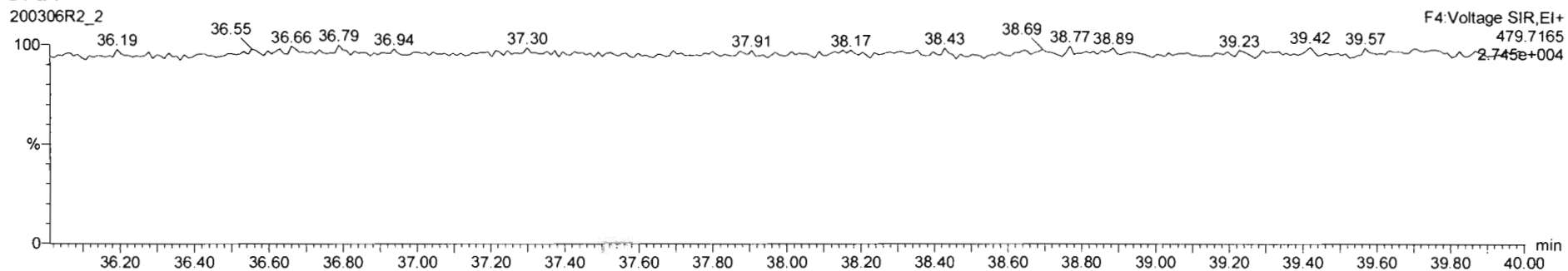
1,2,3,4,6,7,8-HpCDF



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



DPE4



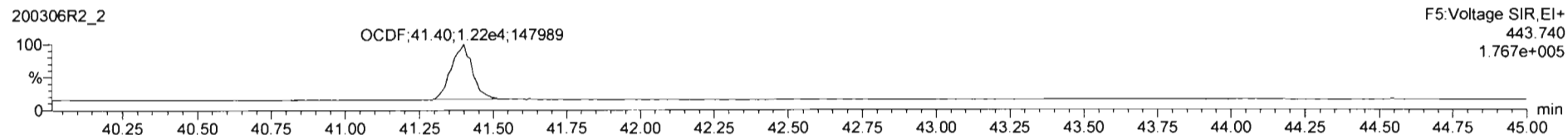
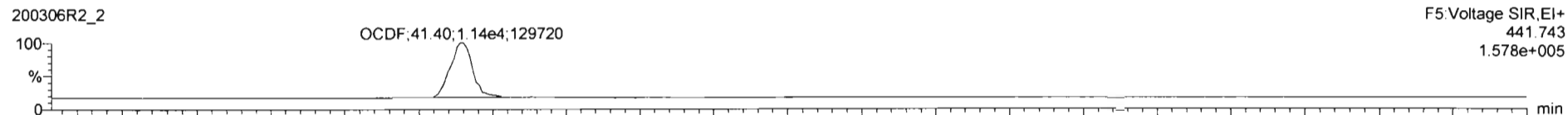
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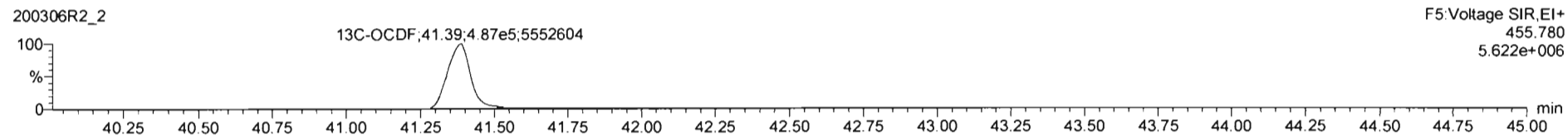
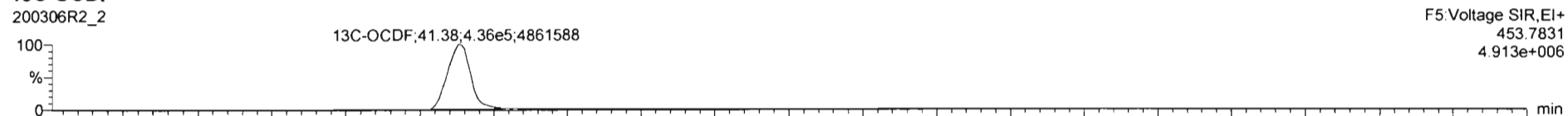
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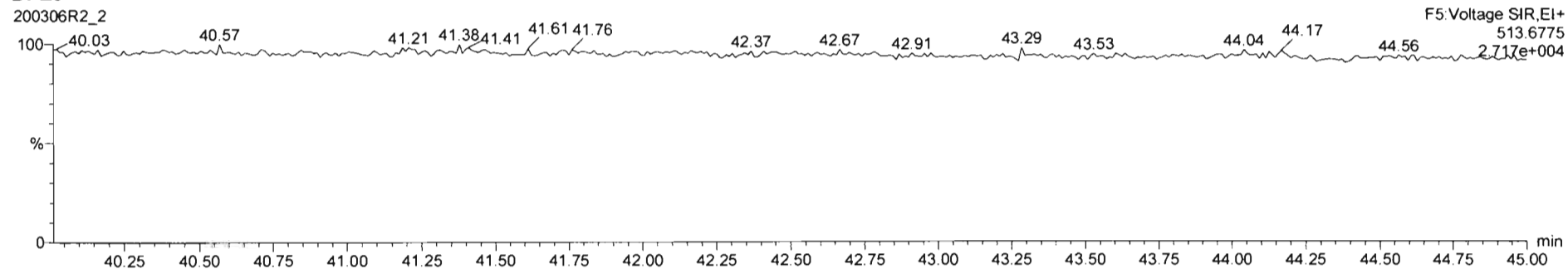
OCDF



13C-OCDF



DPE5

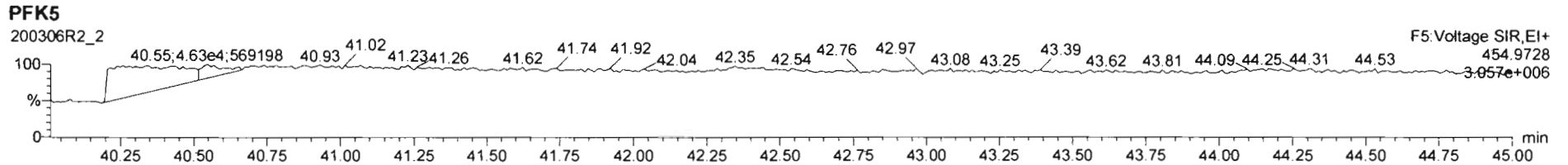
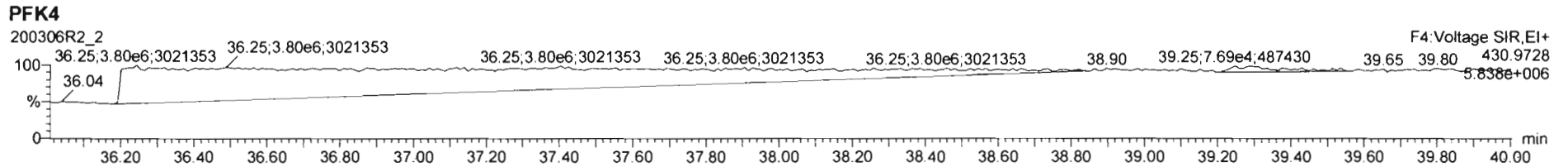
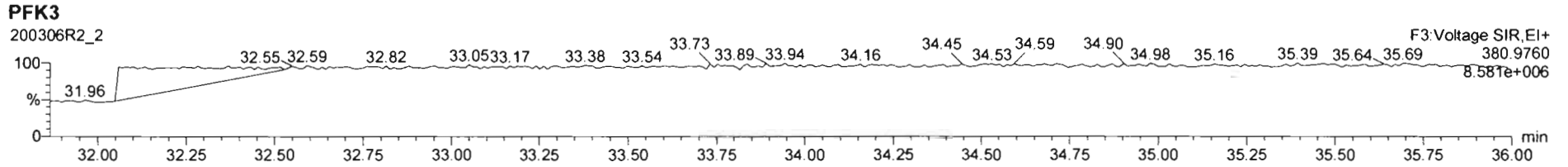
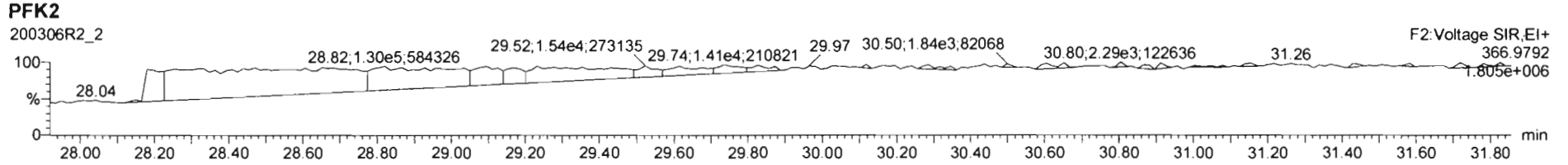
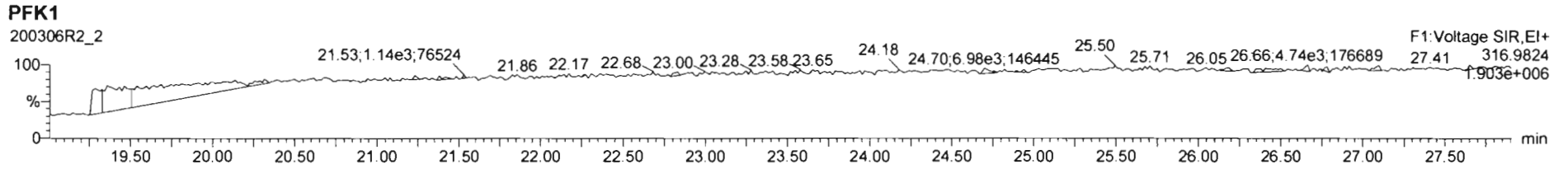


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Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

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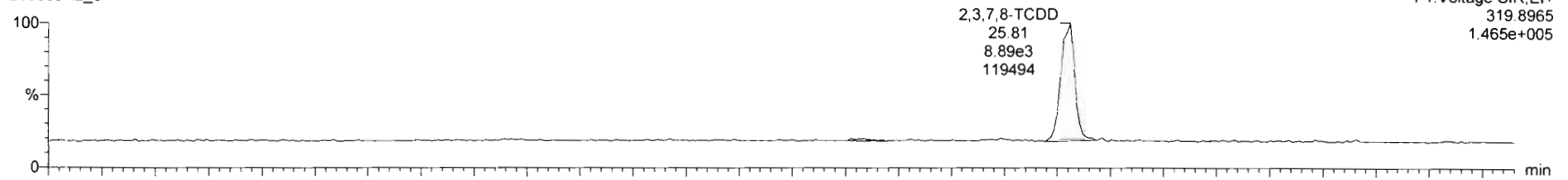
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_3, Date: 06-Mar-2020, Time: 14:44:37, ID: ST200306R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

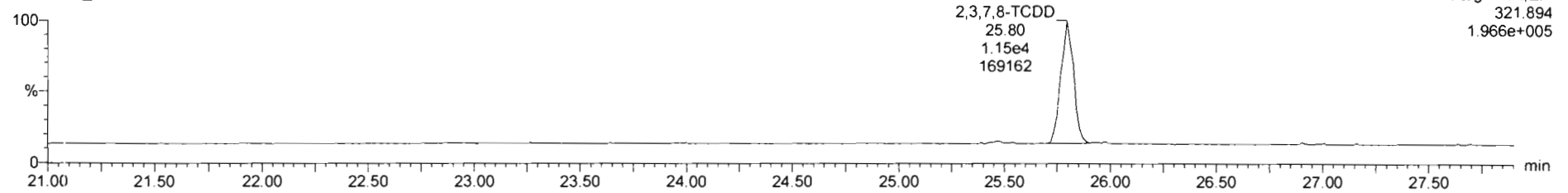
2,3,7,8-TCDD

200306R2_3



F1: Voltage SIR, EI+
319.8965
1.465e+005

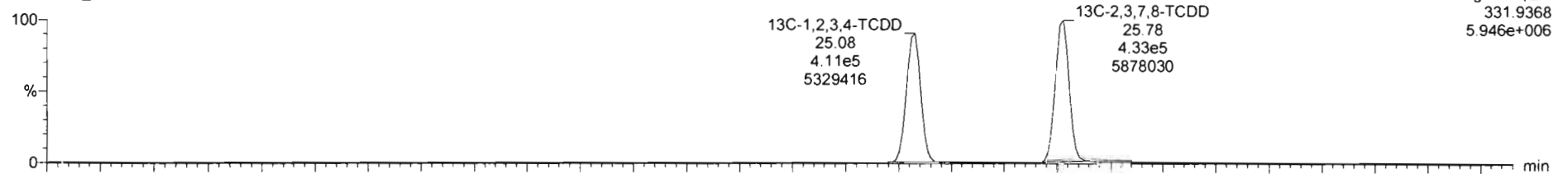
200306R2_3



F1: Voltage SIR, EI+
321.894
1.966e+005

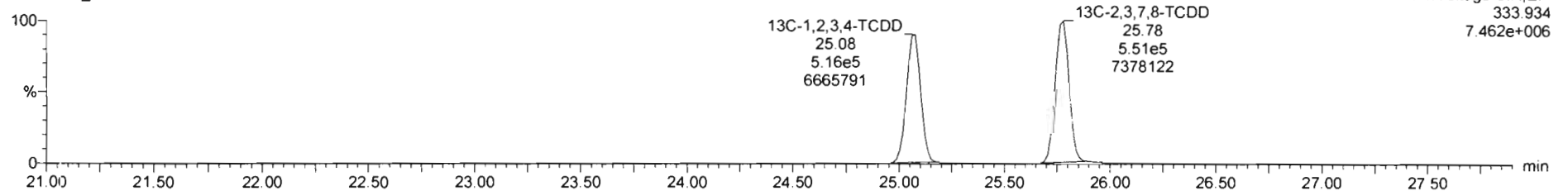
13C-2,3,7,8-TCDD

200306R2_3



F1: Voltage SIR, EI+
331.9368
5.946e+006

200306R2_3



F1: Voltage SIR, EI+
333.934
7.462e+006

Dataset: Untitled

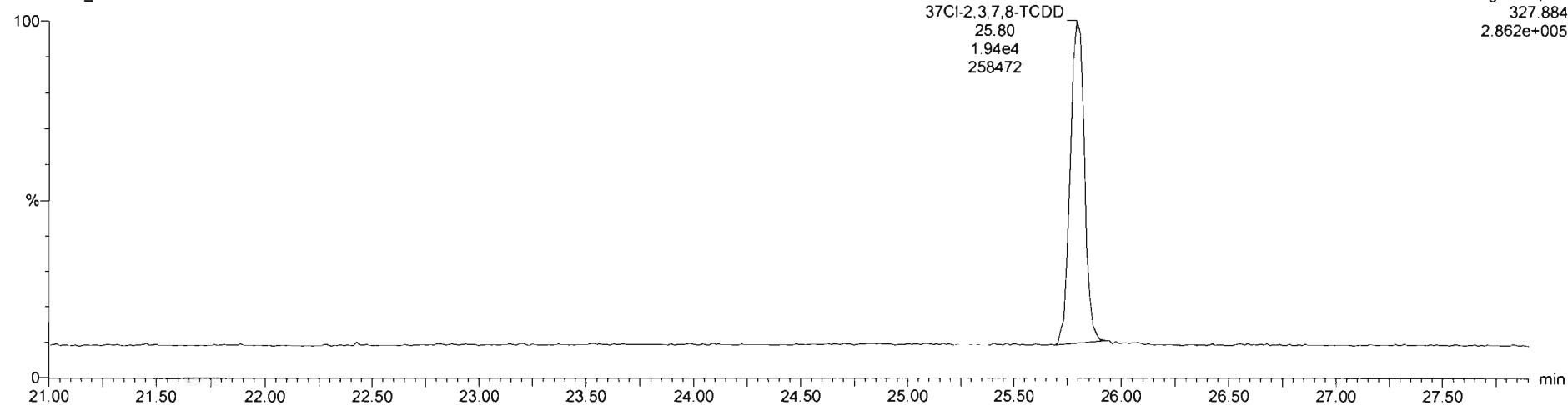
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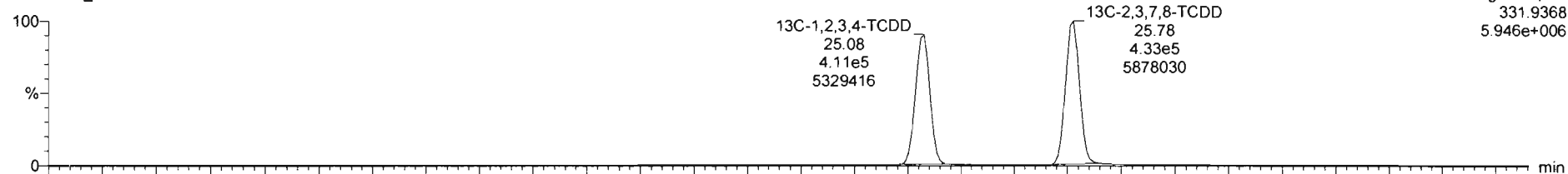
37Cl-2,3,7,8-TCDD

200306R2_3

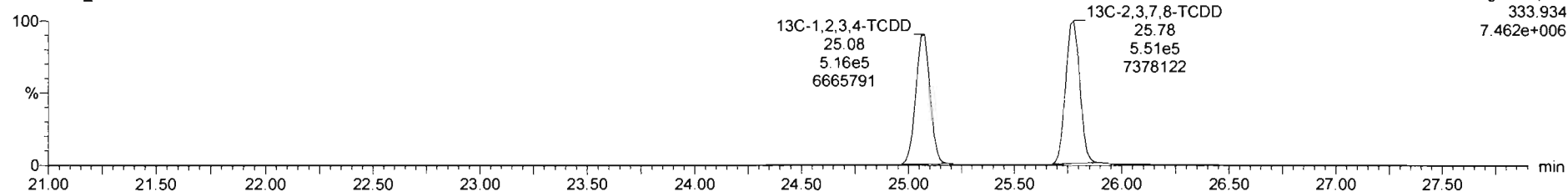


13C-1,2,3,4-TCDD

200306R2_3



200306R2_3



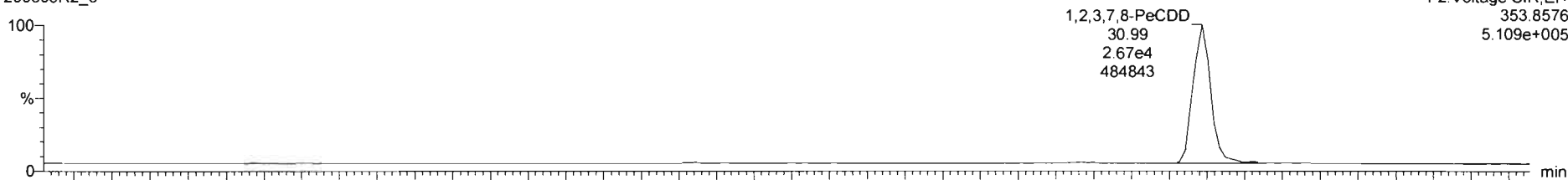
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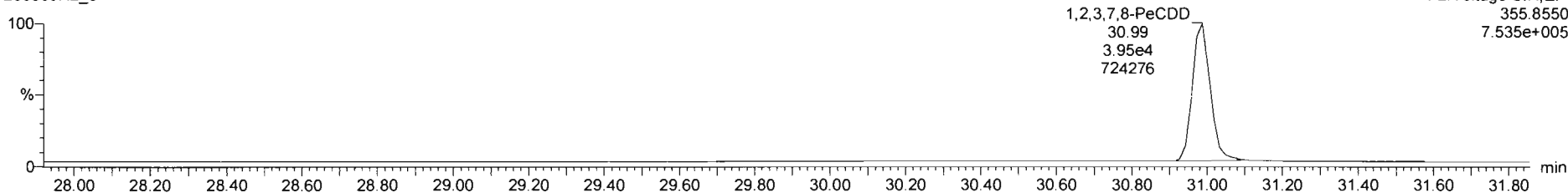
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1,2,3,7,8-PeCDD

200306R2_3

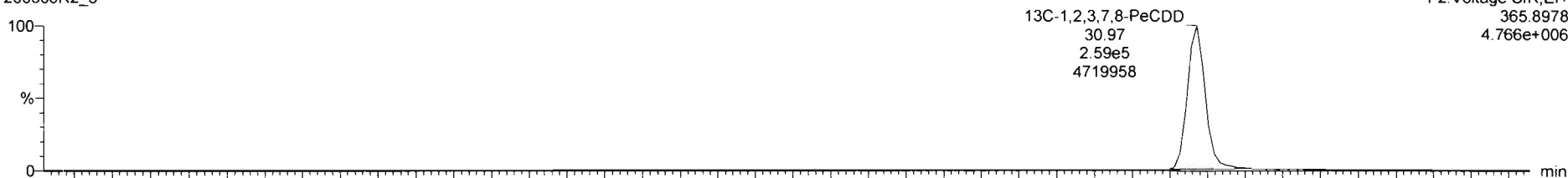


200306R2_3

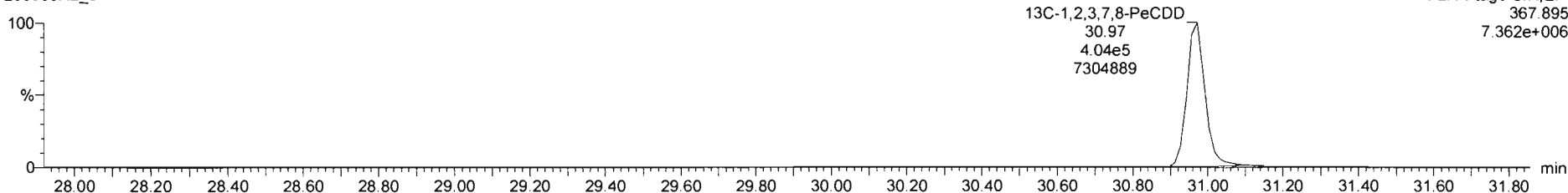


13C-1,2,3,7,8-PeCDD

200306R2_3



200306R2_3



Dataset: Untitled

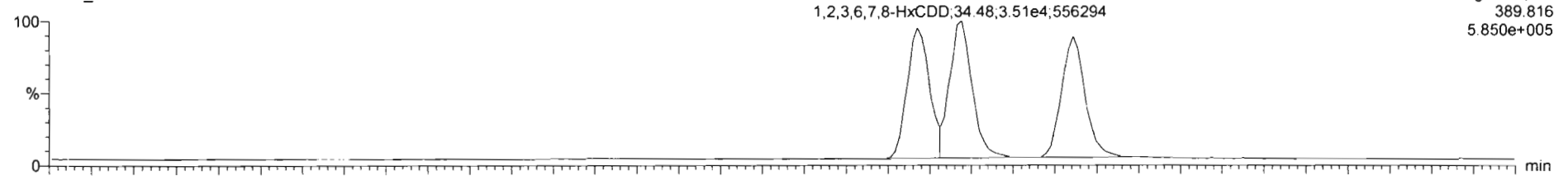
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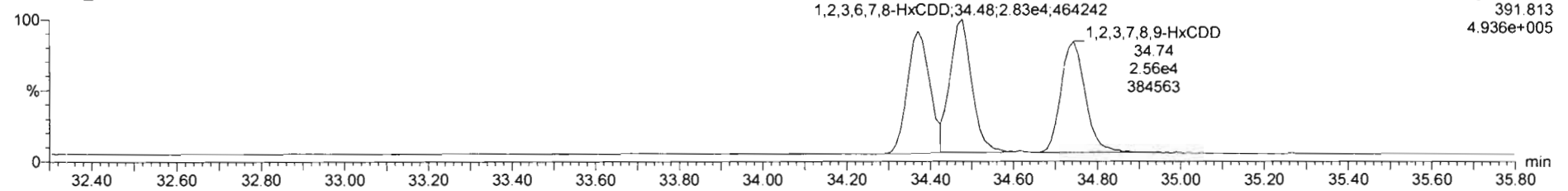
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1,2,3,4,7,8-HxCDD

200306R2_3

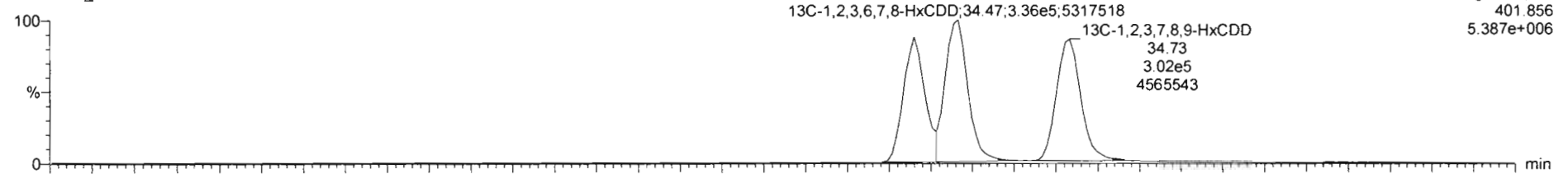


200306R2_3

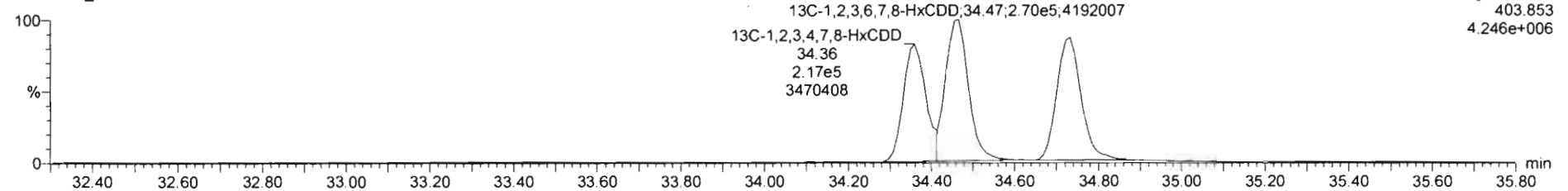


13C-1,2,3,4,7,8-HxCDD

200306R2_3



200306R2_3



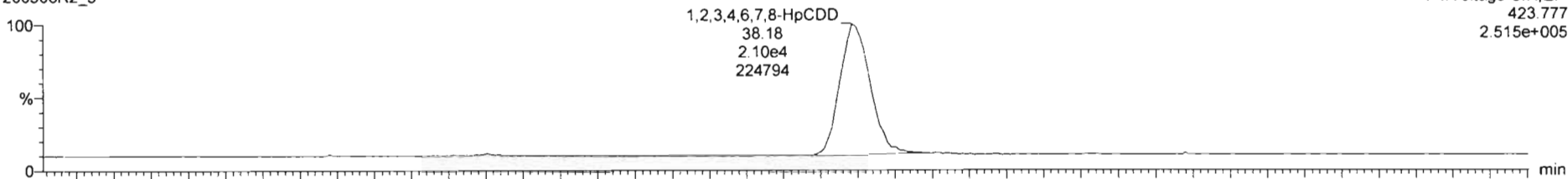
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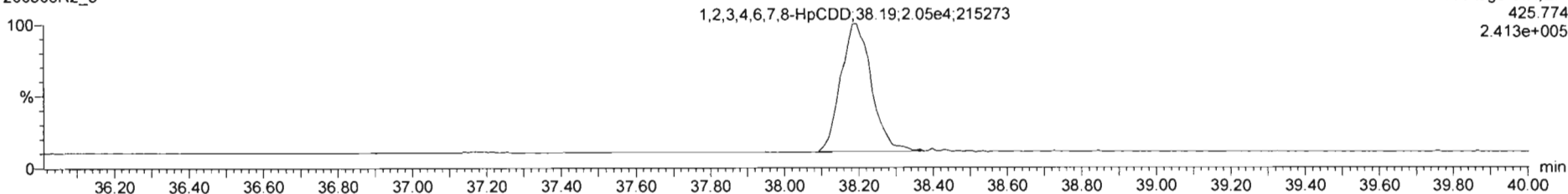
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1,2,3,4,6,7,8-HpCDD

200306R2_3

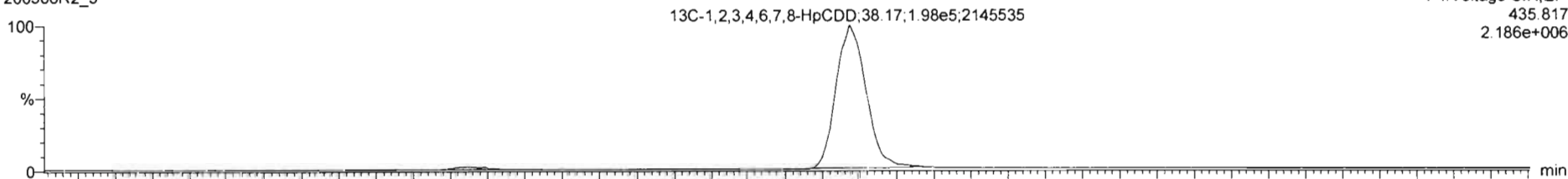


200306R2_3

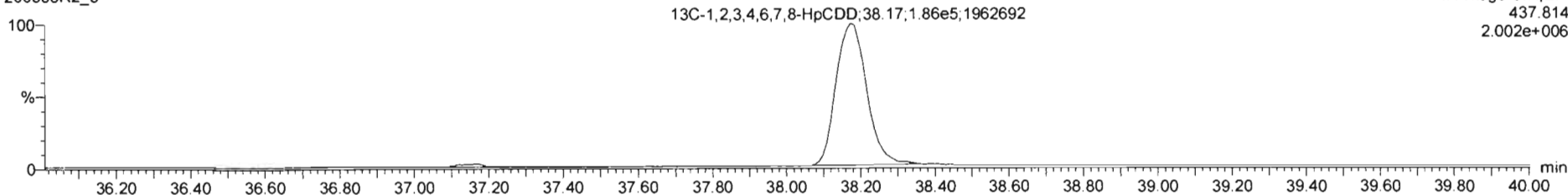


13C-1,2,3,4,6,7,8-HpCDD

200306R2_3



200306R2_3



Dataset: Untitled

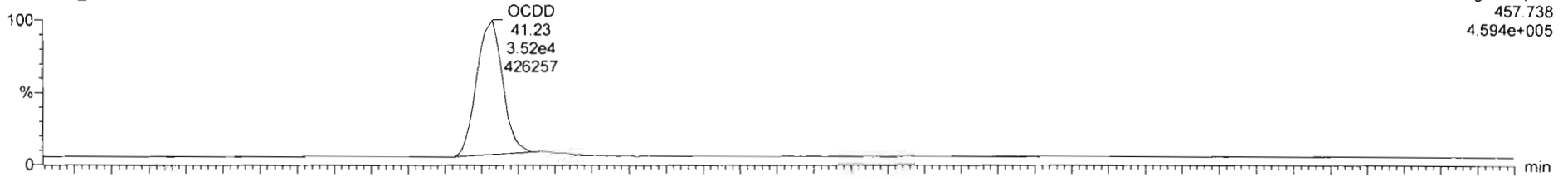
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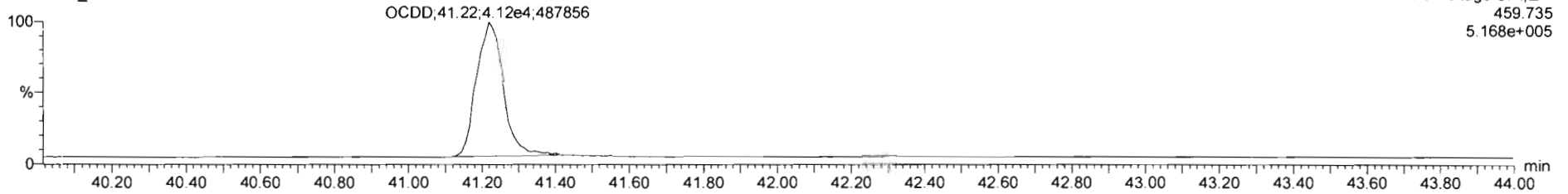
OCDD

200306R2_3



F5:Voltage SIR,EI+
457.738
4.594e+005

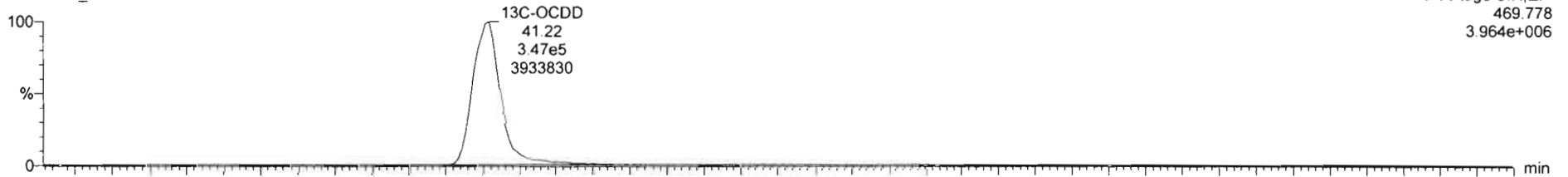
200306R2_3



F5:Voltage SIR,EI+
459.735
5.168e+005

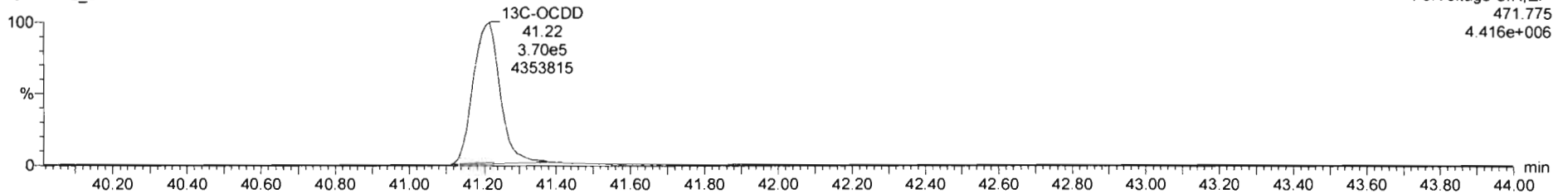
13C-OCDD

200306R2_3



F5:Voltage SIR,EI+
469.778
3.964e+006

200306R2_3



F5:Voltage SIR,EI+
471.775
4.416e+006

Dataset: Untitled

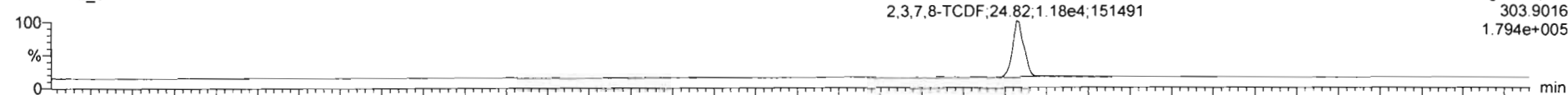
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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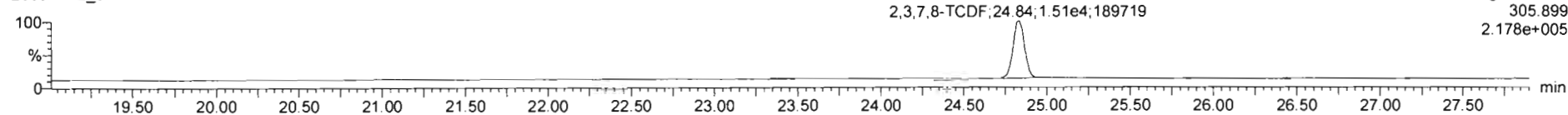
2,3,7,8-TCDF

200306R2_3



F1:Voltage SIR,EI+
303.9016
1.794e+005

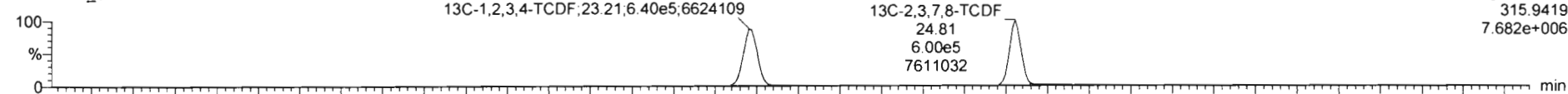
200306R2_3



F1:Voltage SIR,EI+
305.899
2.178e+005

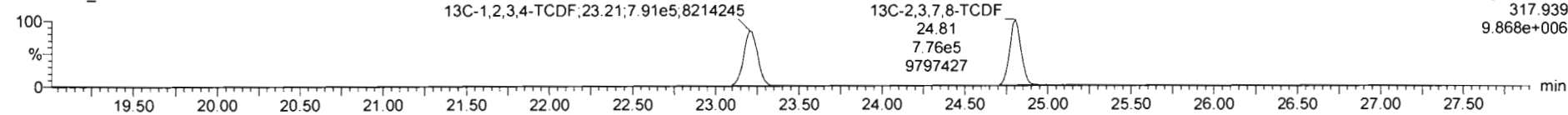
13C-2,3,7,8-TCDF

200306R2_3



F1:Voltage SIR,EI+
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7.682e+006

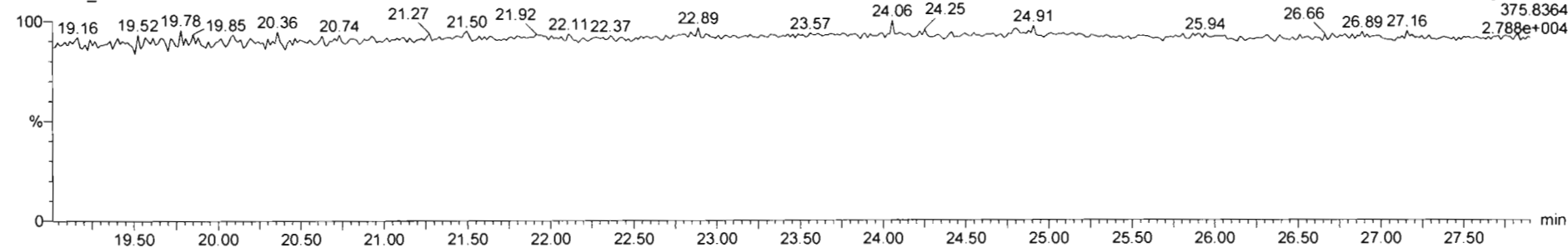
200306R2_3



F1:Voltage SIR,EI+
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9.868e+006

DPE1

200306R2_3



F1:Voltage SIR,EI+
375.8364
2.788e+004

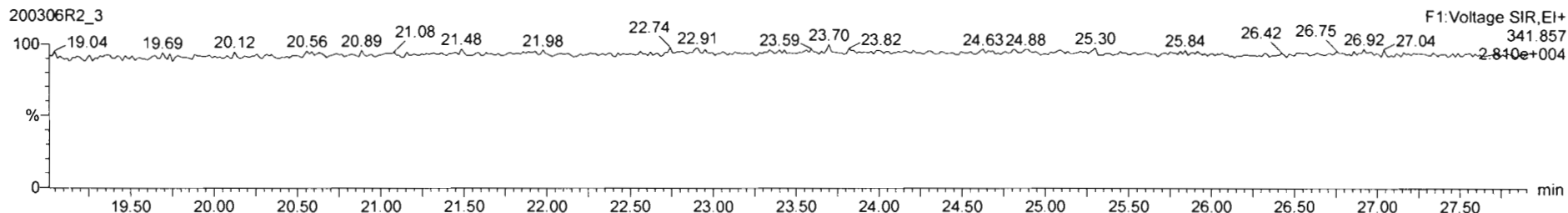
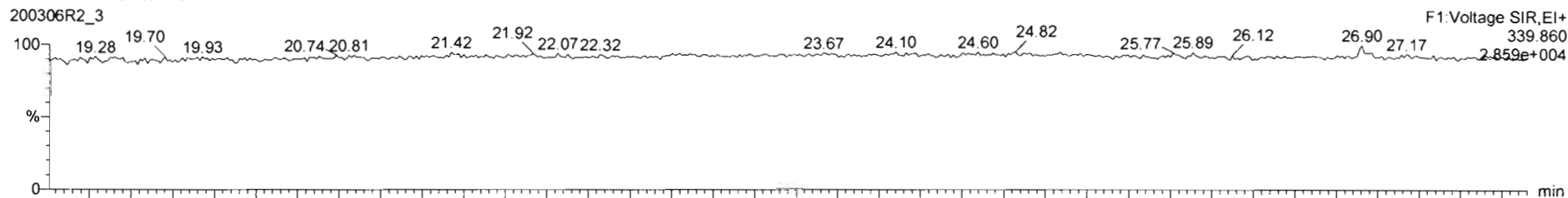
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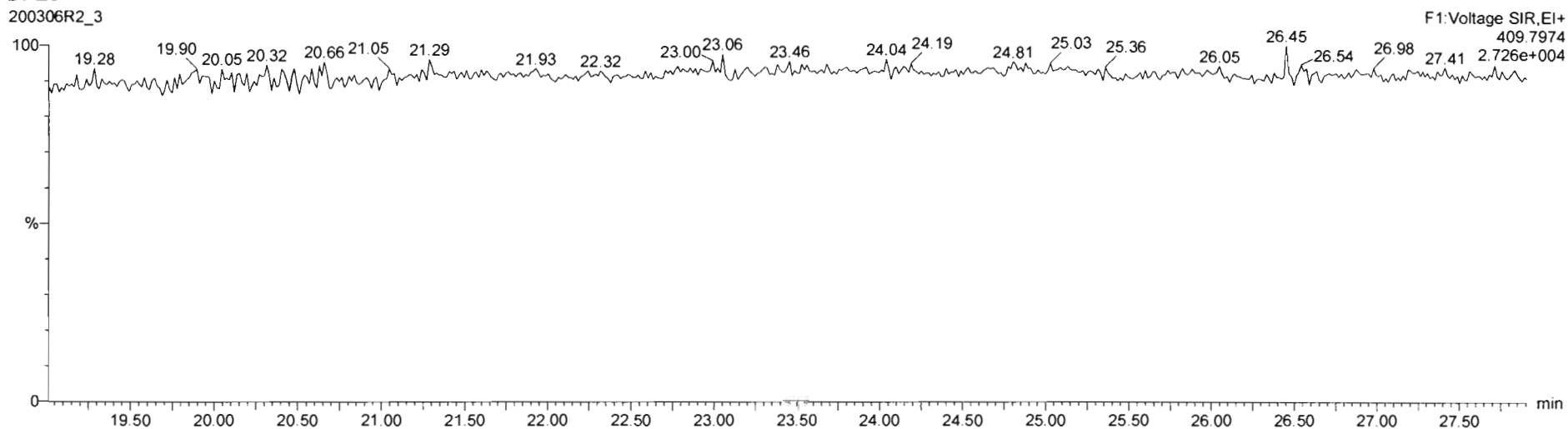
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Name: 200306R2_3, Date: 06-Mar-2020, Time: 14:44:37, ID: ST200306R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

1st Func. Penta-Furans



DPE6



Dataset: Untitled

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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

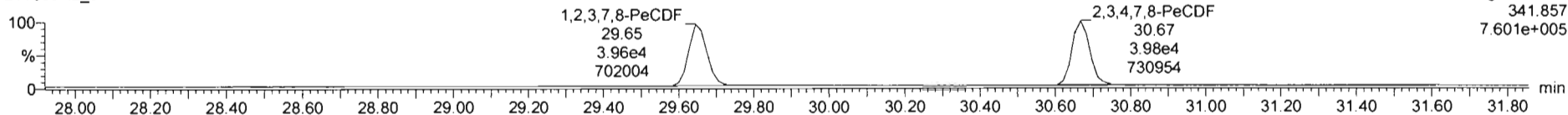
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1,2,3,7,8-PeCDF

200306R2_3

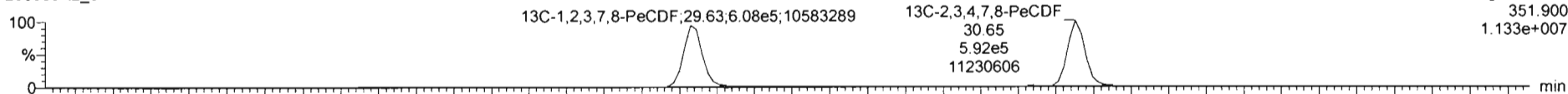


200306R2_3

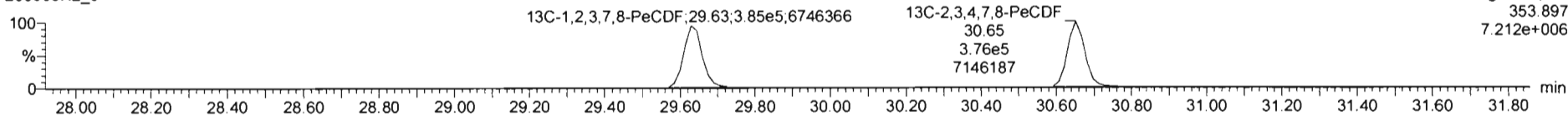


13C-1,2,3,7,8-PeCDF

200306R2_3

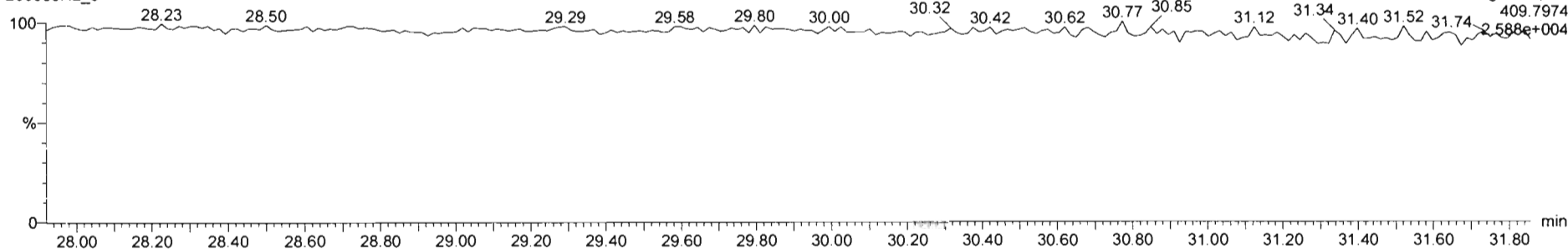


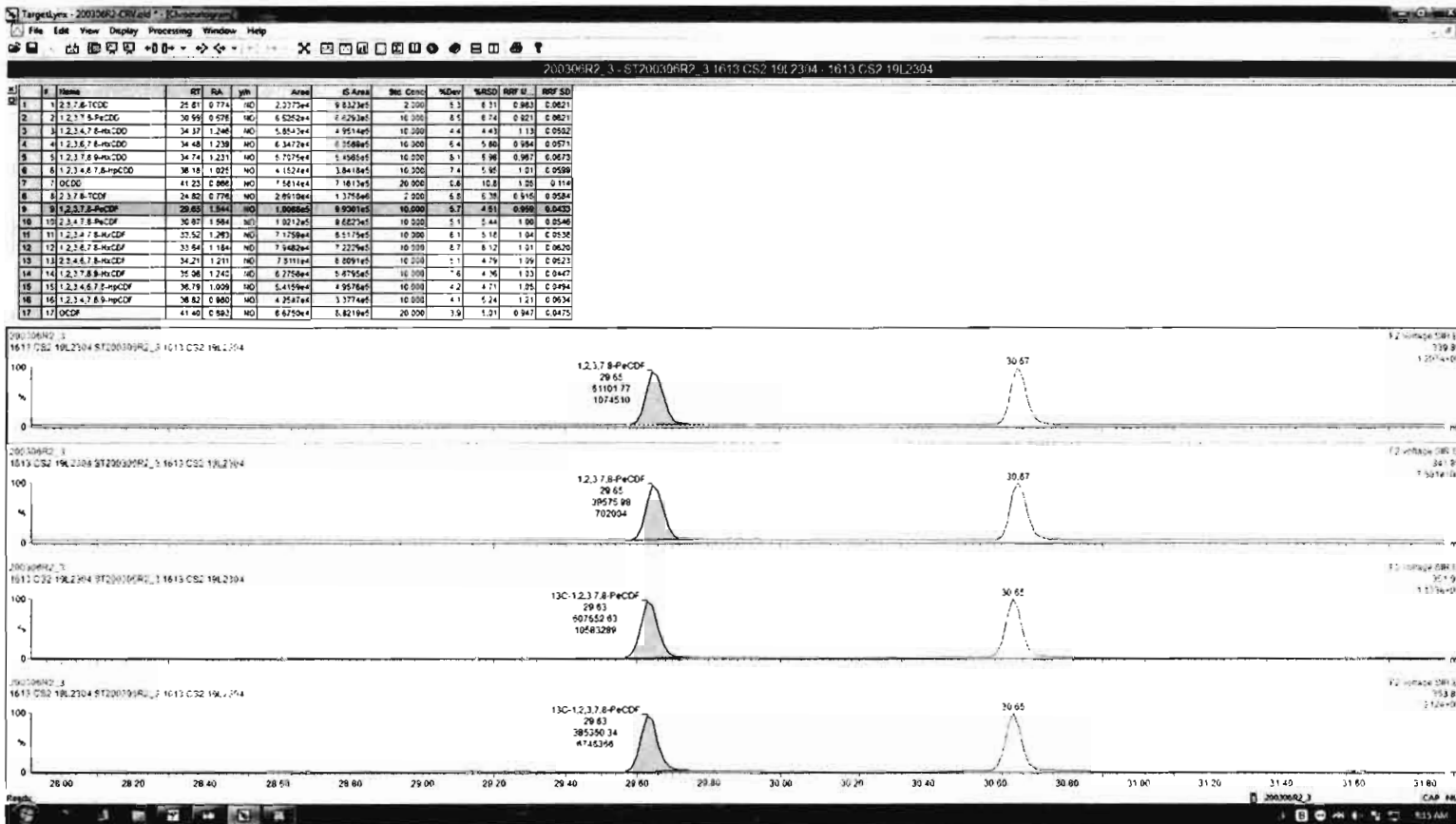
200306R2_3



DPE2

200306R2_3





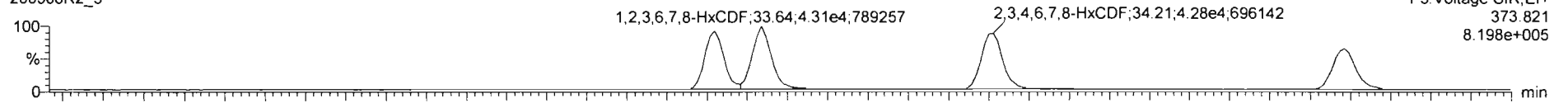
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

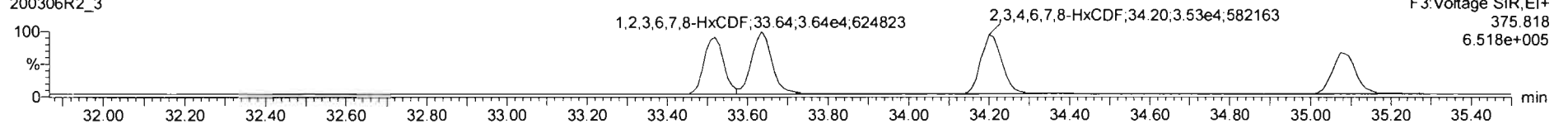
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1,2,3,4,7,8-HxCDF

200306R2_3

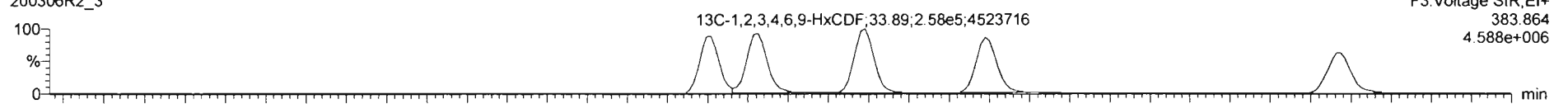


200306R2_3

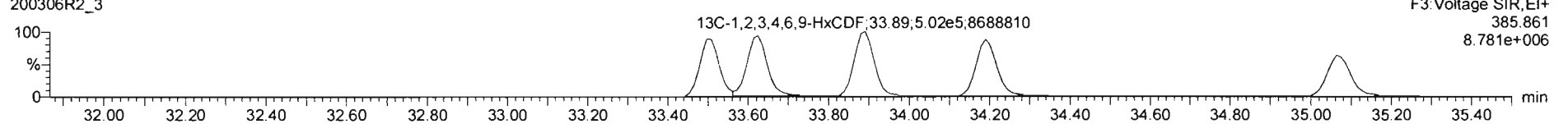


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200306R2_3

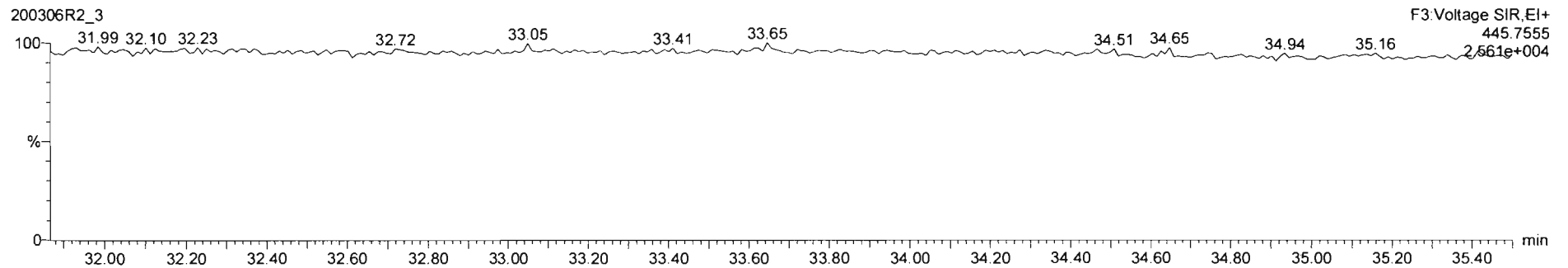


200306R2_3



DPE3

200306R2_3



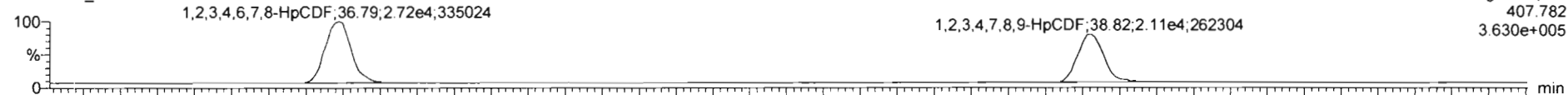
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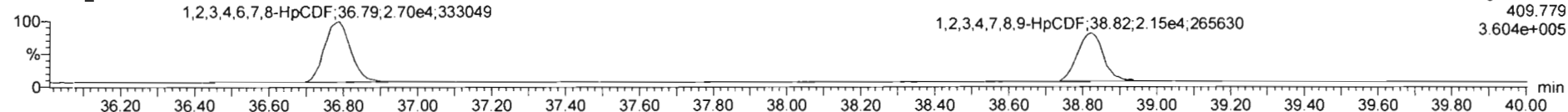
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1,2,3,4,6,7,8-HpCDF

200306R2_3

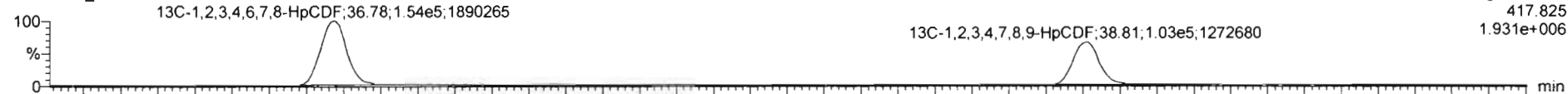


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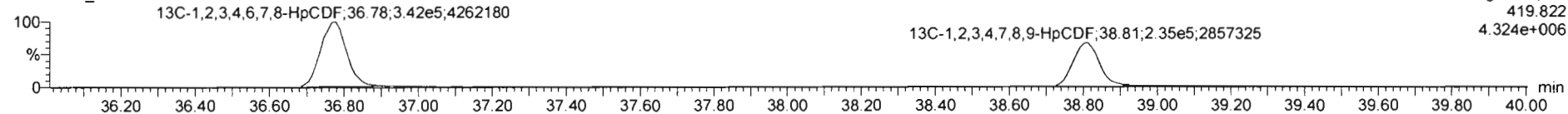


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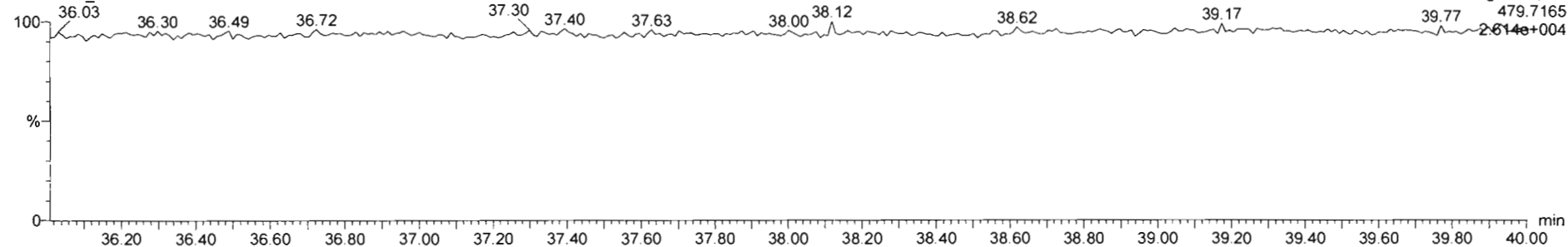


200306R2_3



DPE4

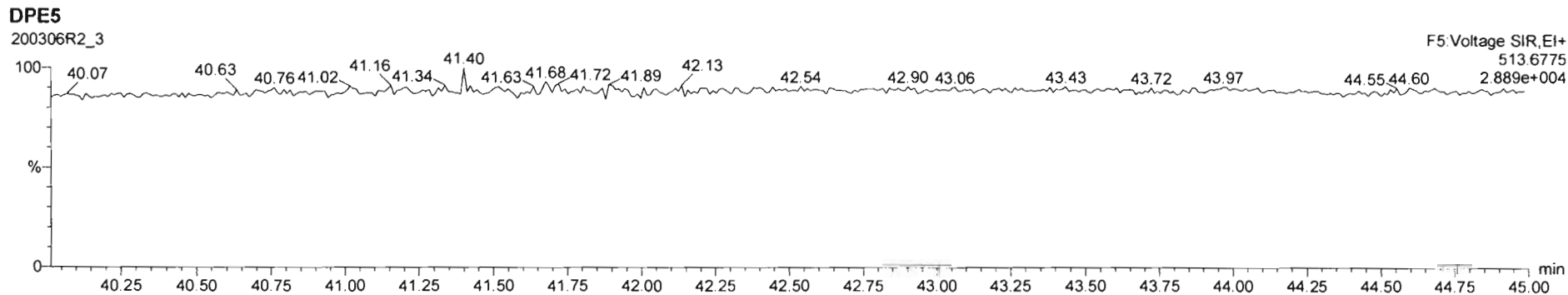
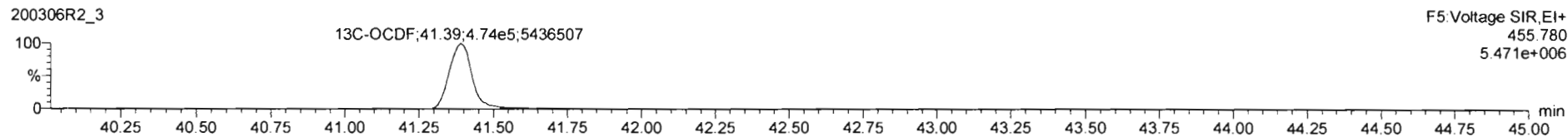
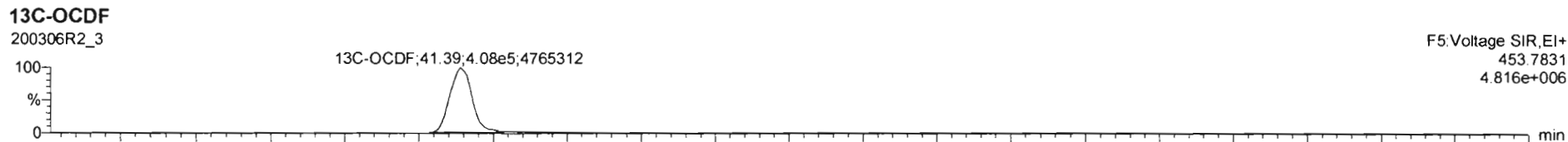
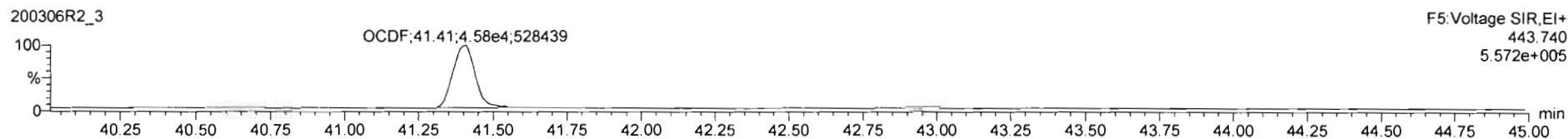
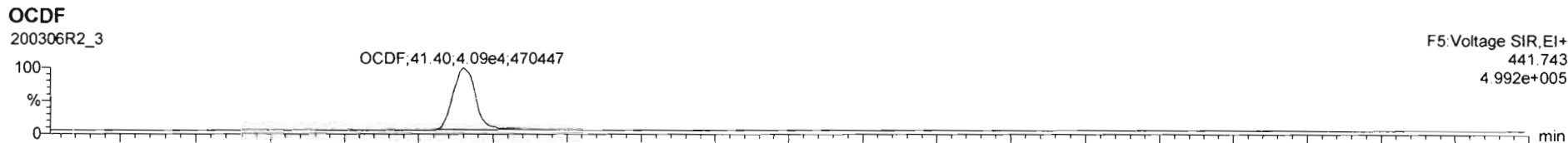
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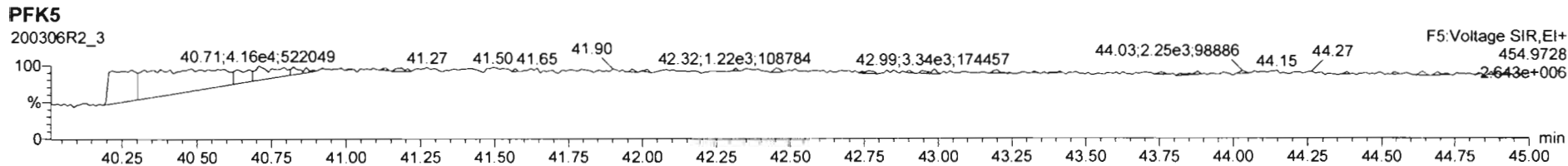
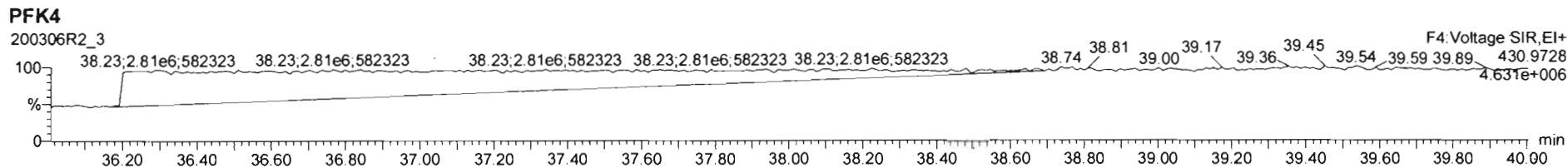
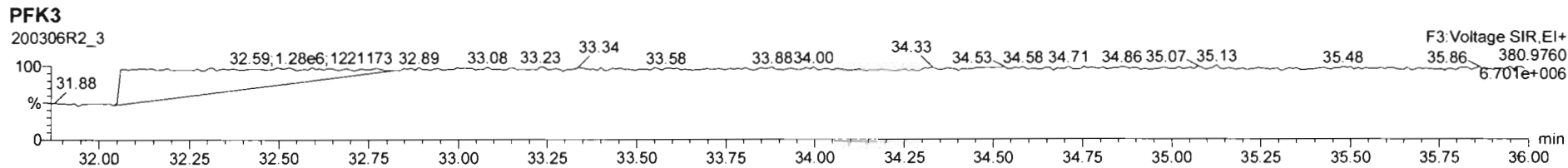
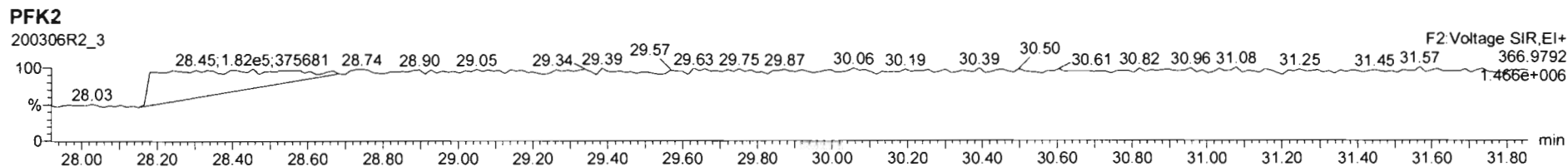
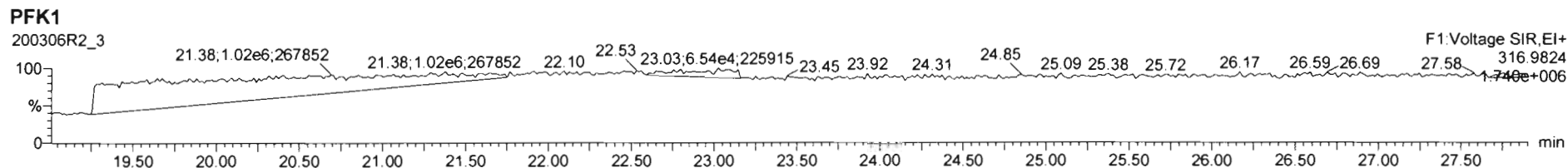


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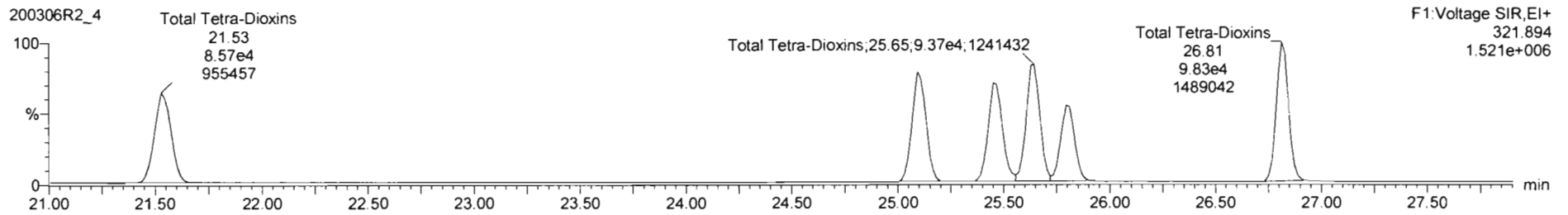
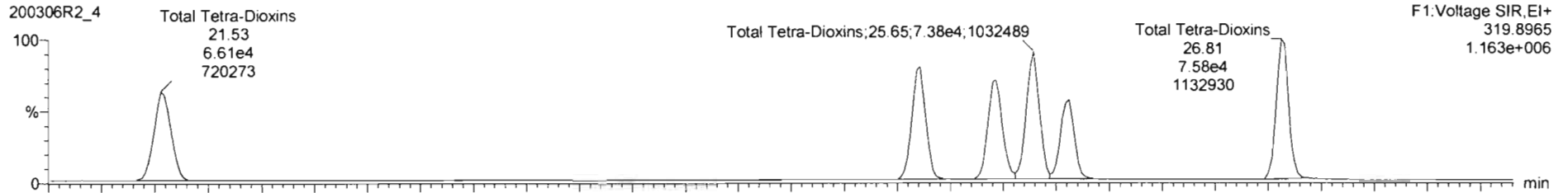


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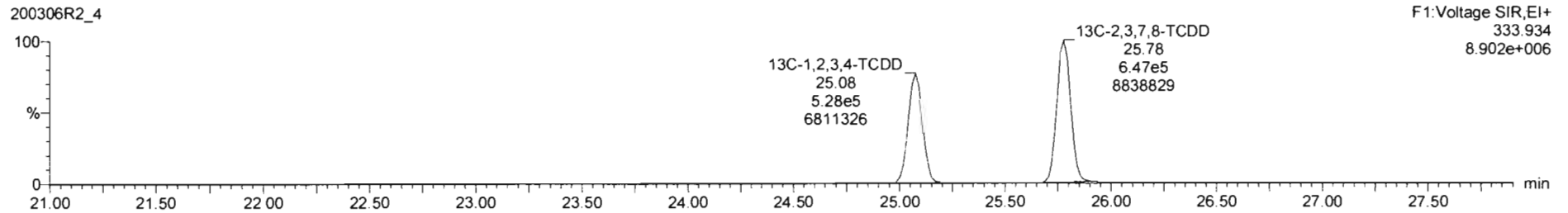
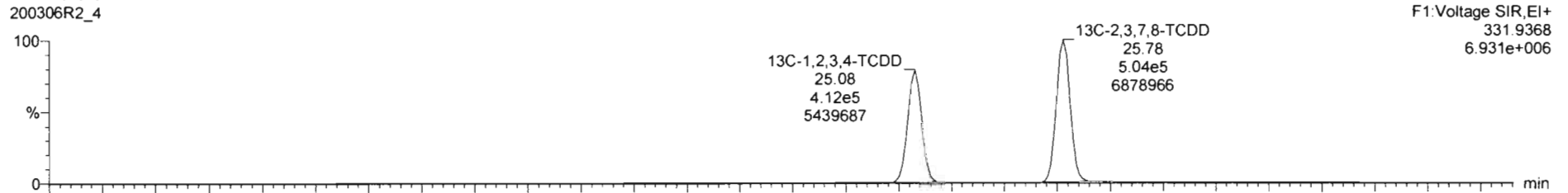
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2,3,7,8-TCDD



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



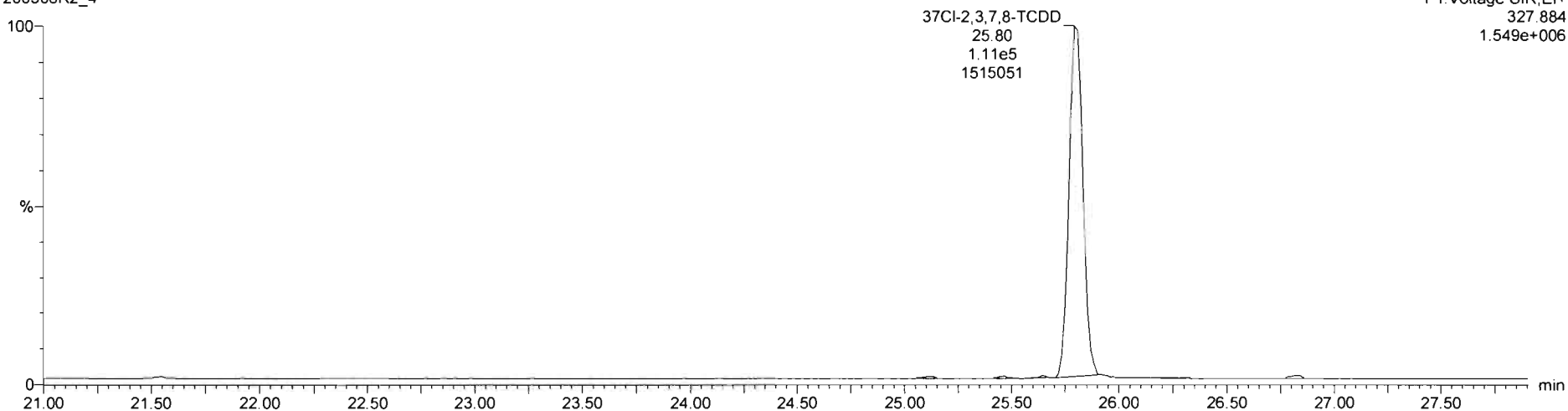
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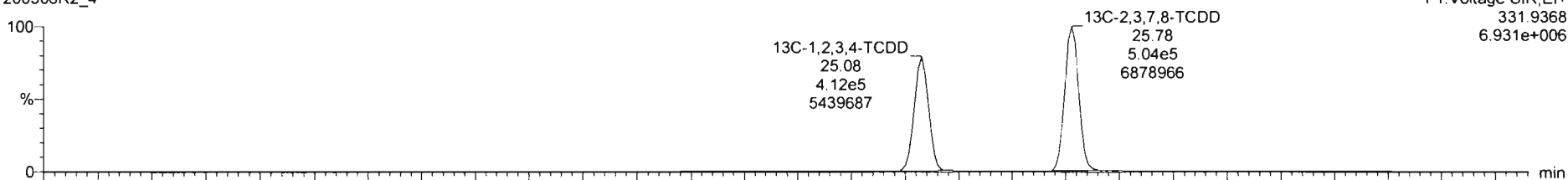
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200306R2_4

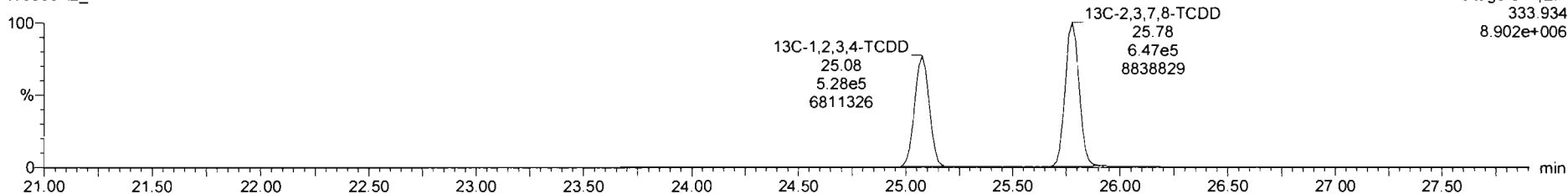


13C-1,2,3,4-TCDD

200306R2_4



200306R2_4



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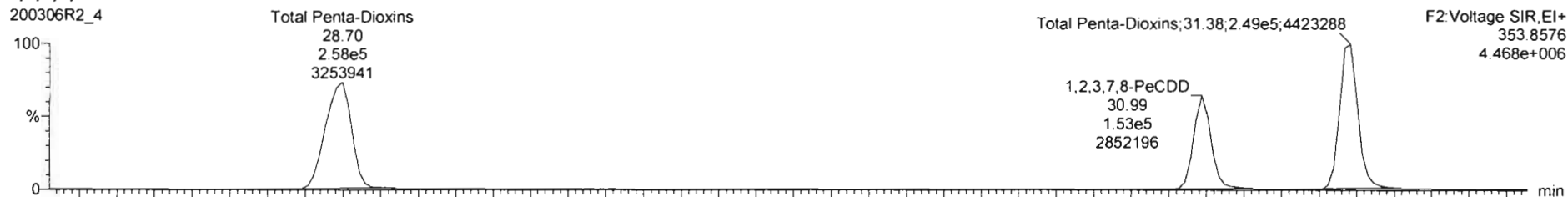
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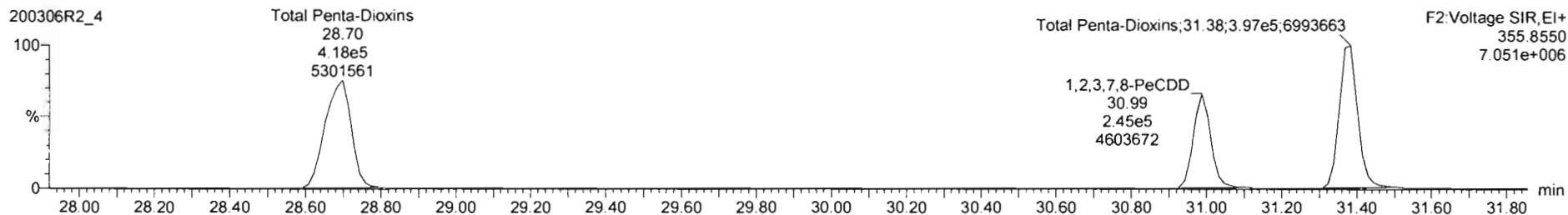
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1,2,3,7,8-PeCDD

200306R2_4

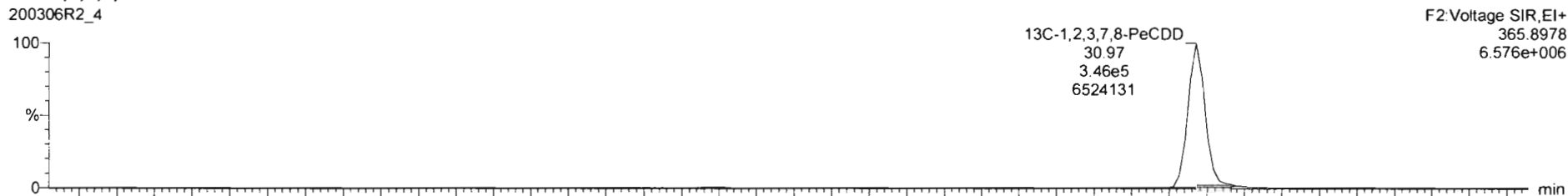


200306R2_4

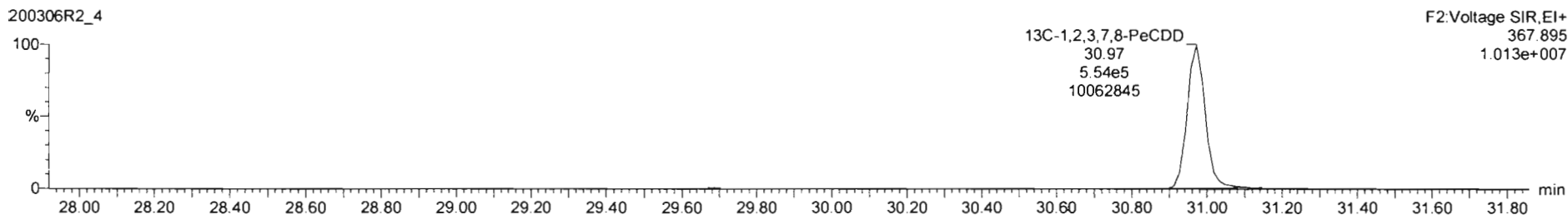


13C-1,2,3,7,8-PeCDD

200306R2_4



200306R2_4



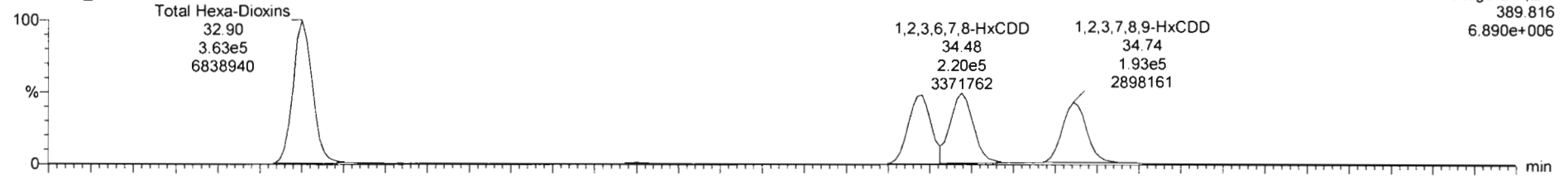
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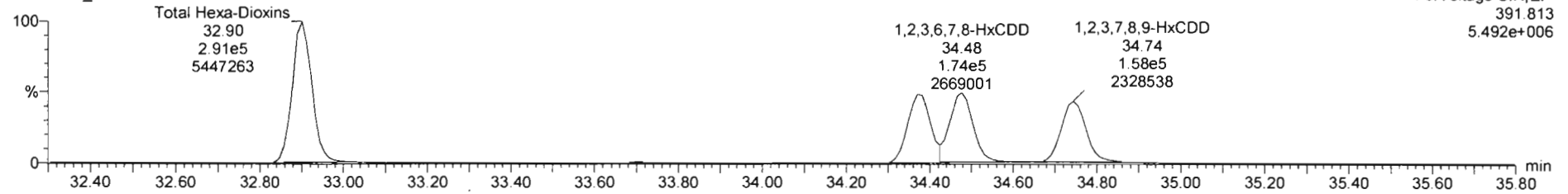
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1,2,3,4,7,8-HxCDD

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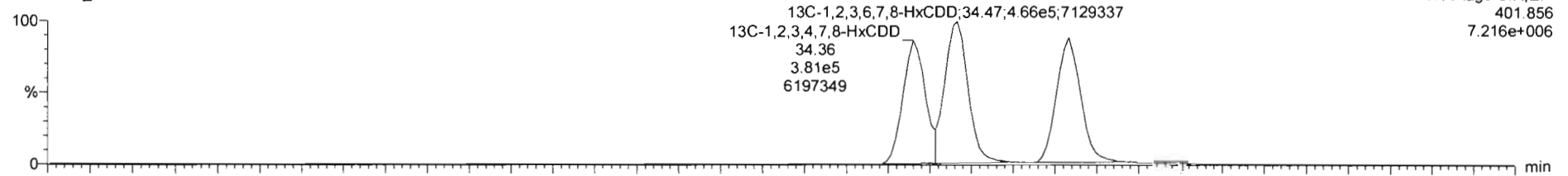


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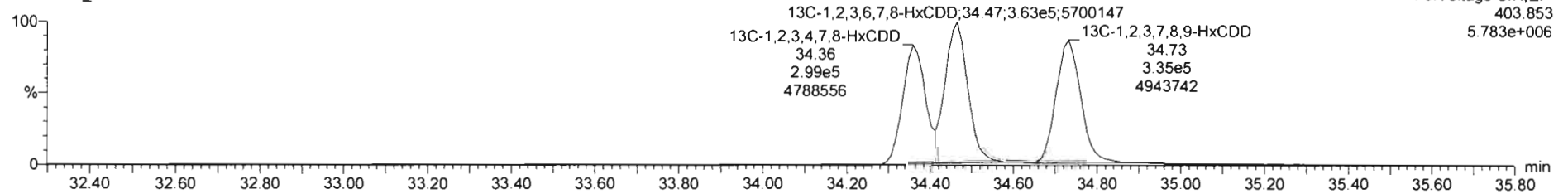


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200306R2_4



200306R2_4



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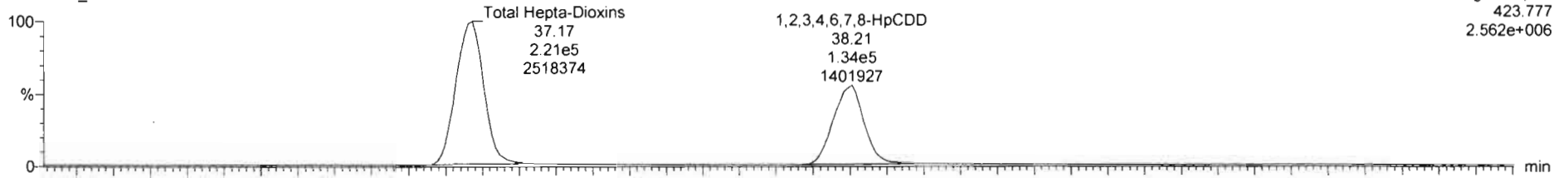
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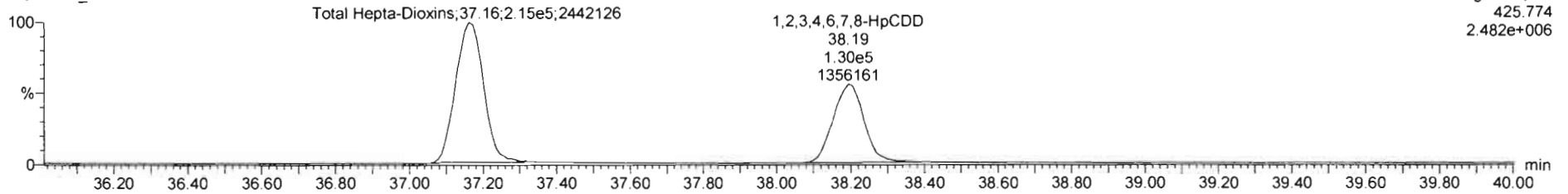
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1,2,3,4,6,7,8-HpCDD

200306R2_4

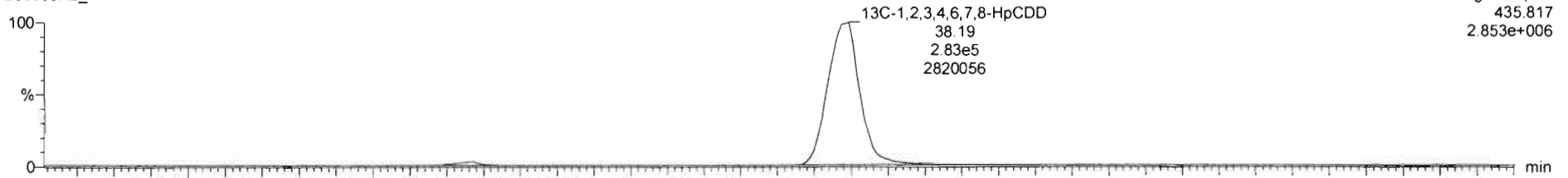


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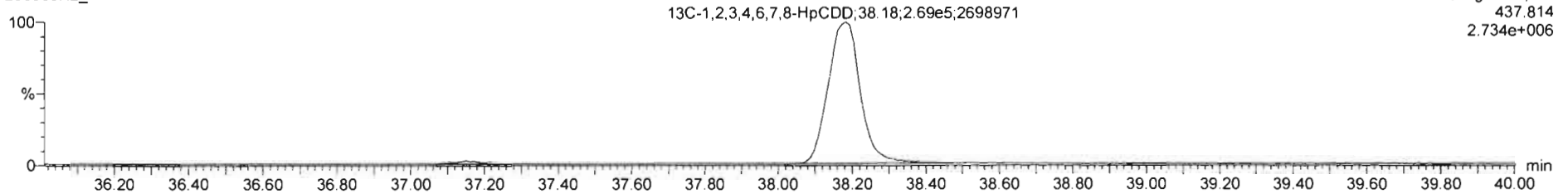


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200306R2_4



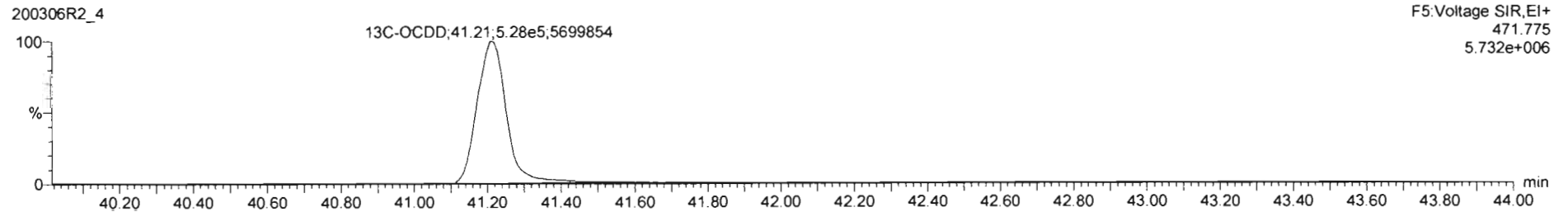
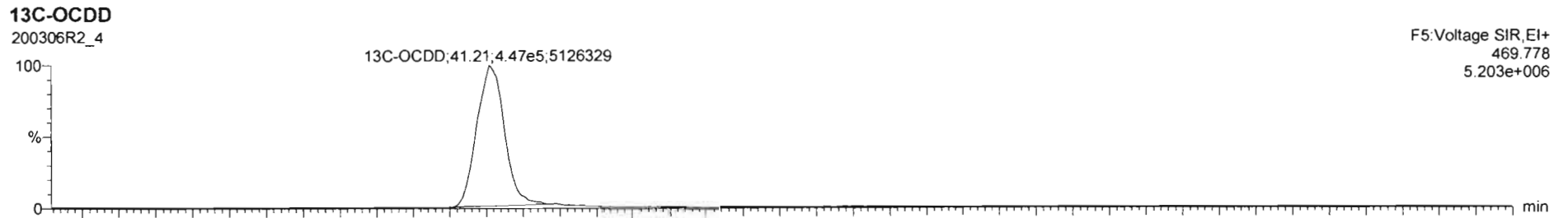
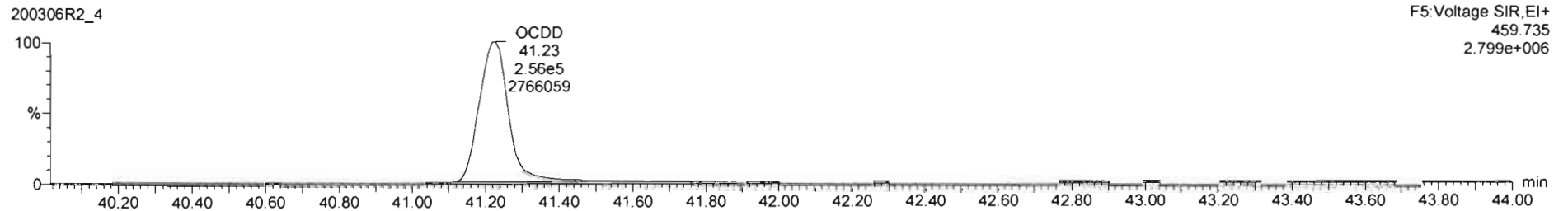
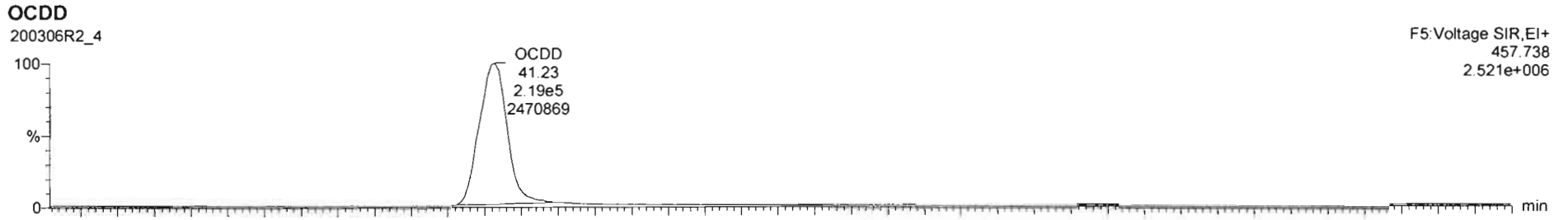
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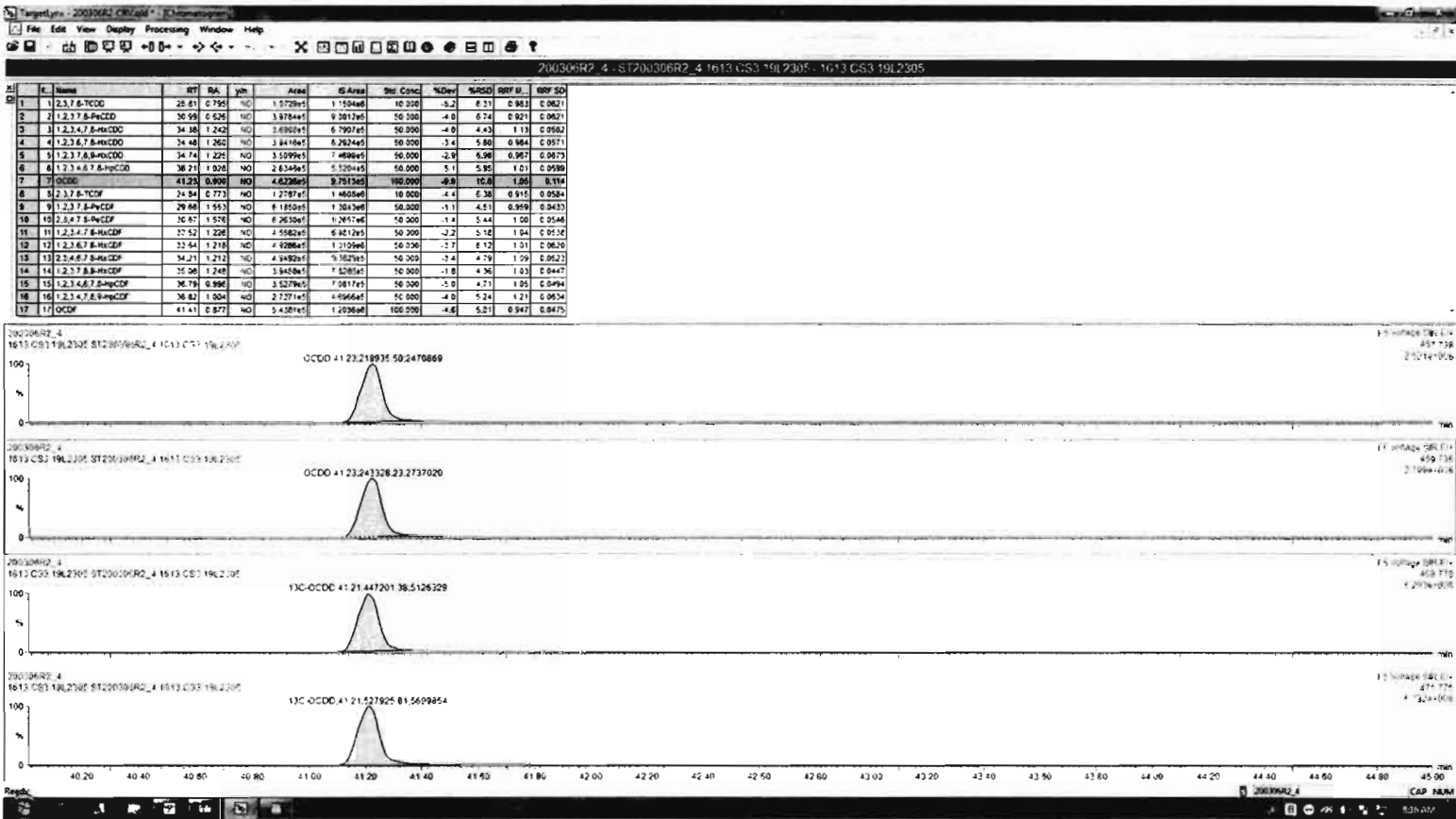


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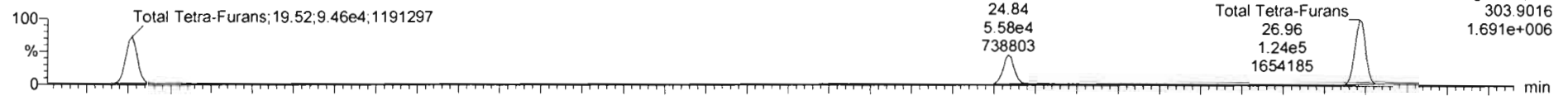
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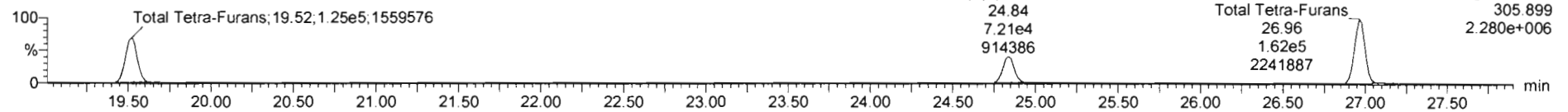
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2,3,7,8-TCDF

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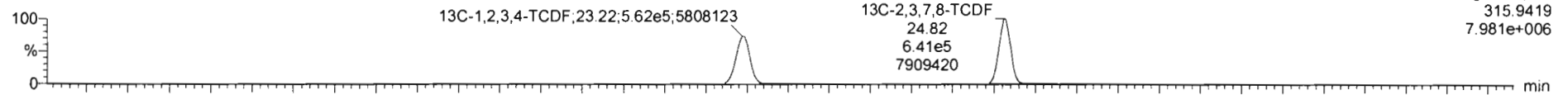


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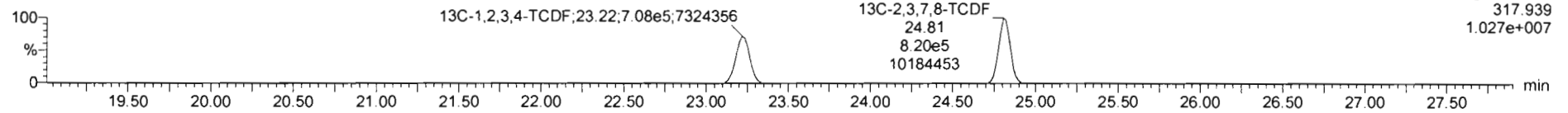


13C-2,3,7,8-TCDF

200306R2_4

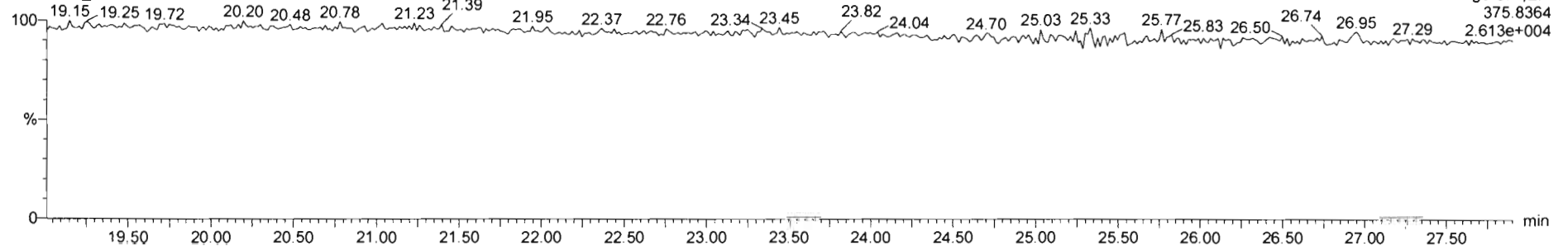


200306R2_4



DPE1

200306R2_4



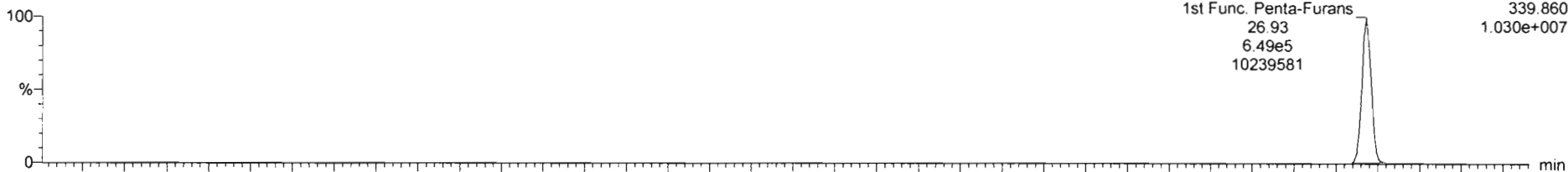
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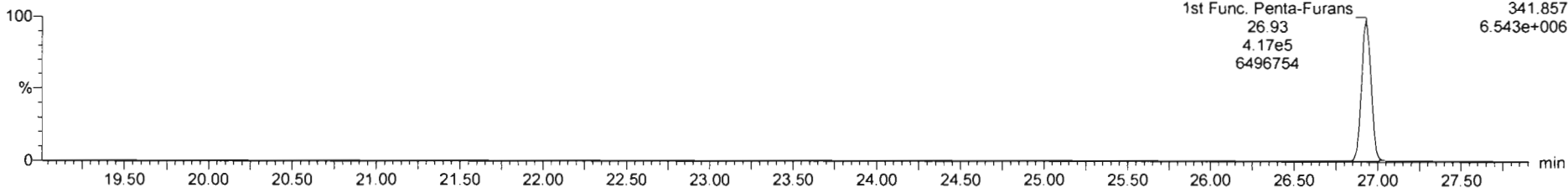
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200306R2_4

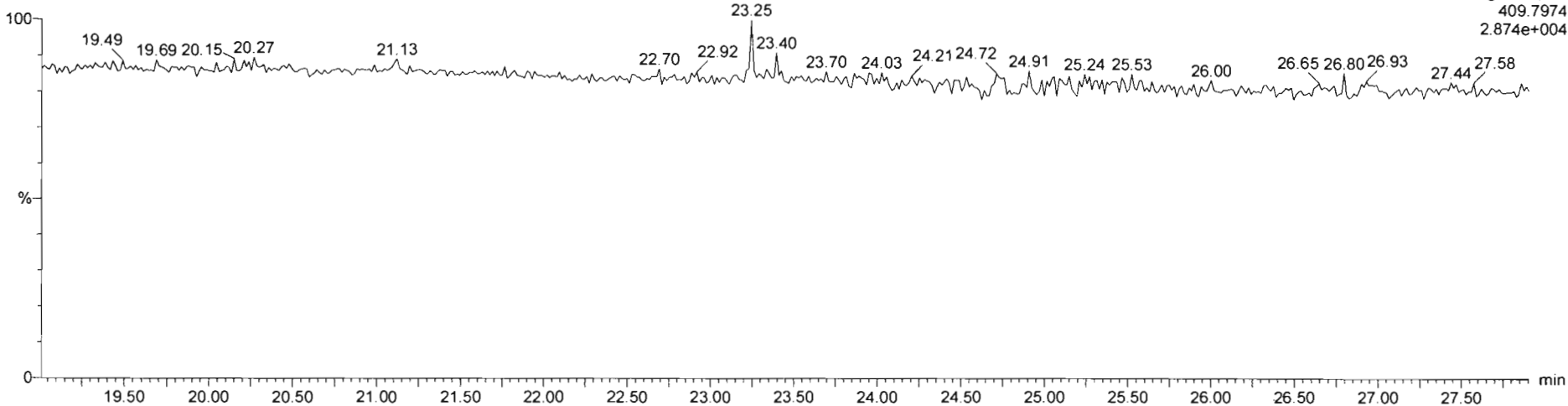


200306R2_4



DPE6

200306R2_4



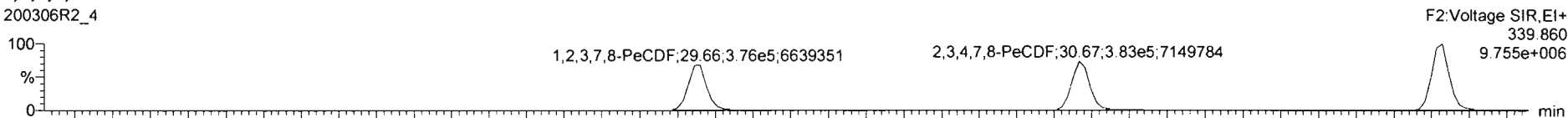
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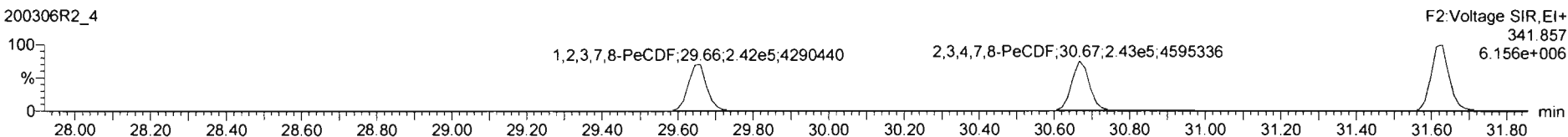
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1,2,3,7,8-PeCDF

200306R2_4

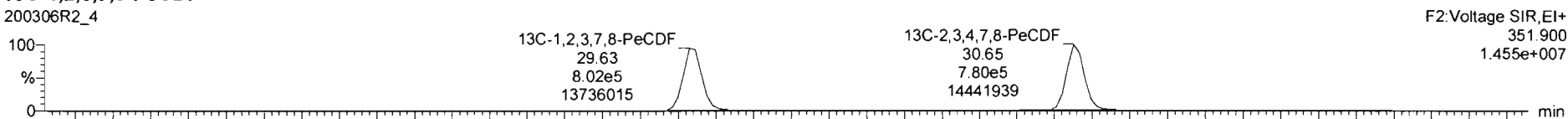


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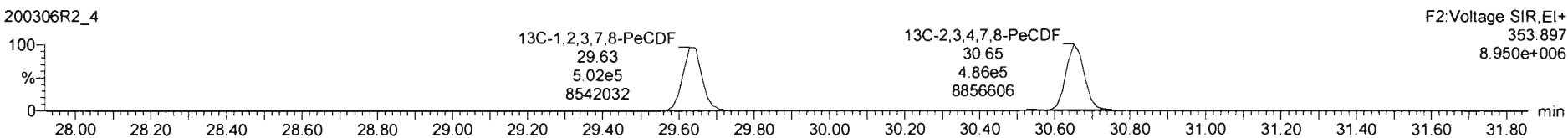


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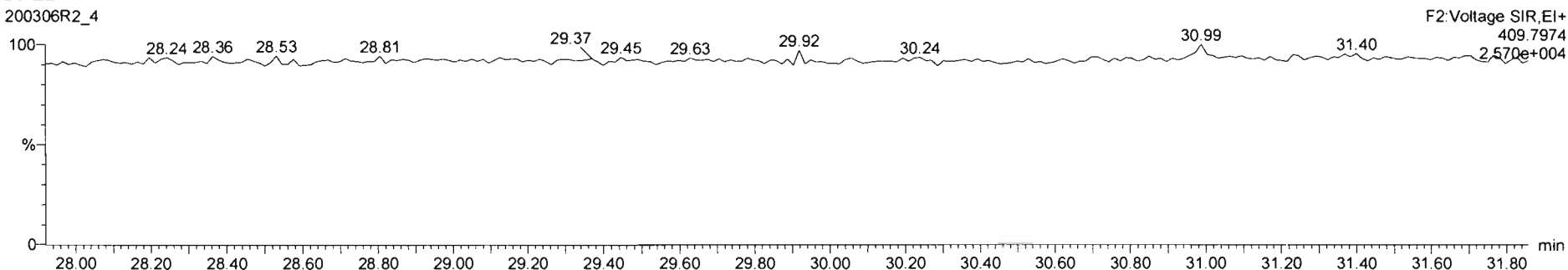


200306R2_4



DPE2

200306R2_4



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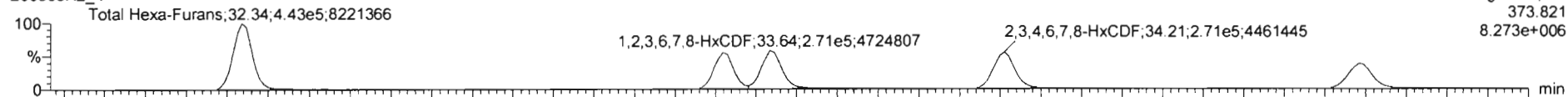
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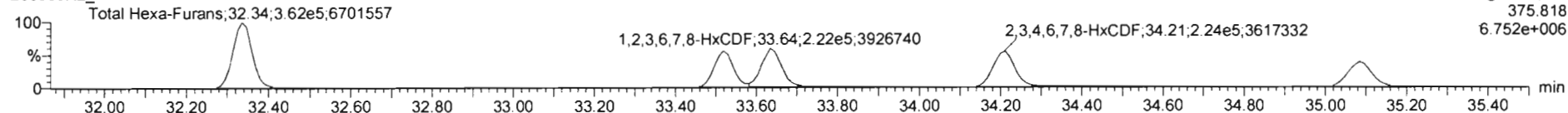
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1,2,3,4,7,8-HxCDF

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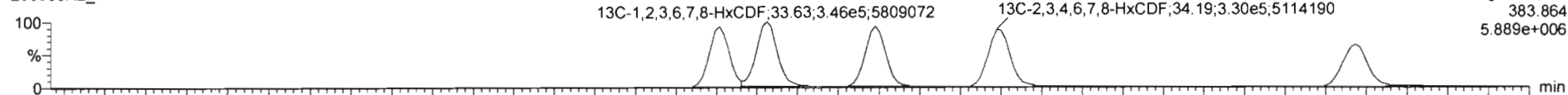


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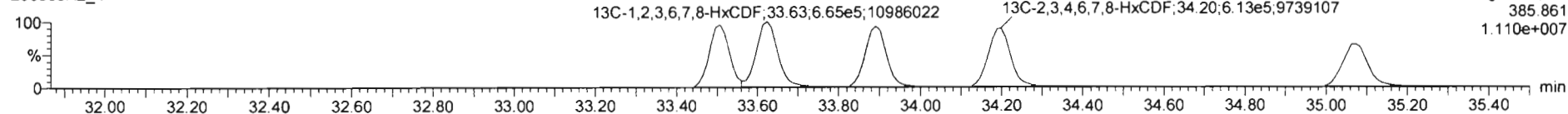


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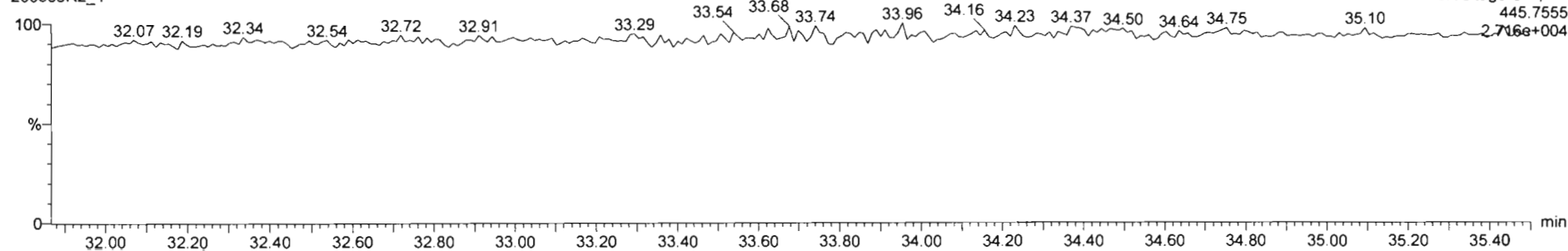


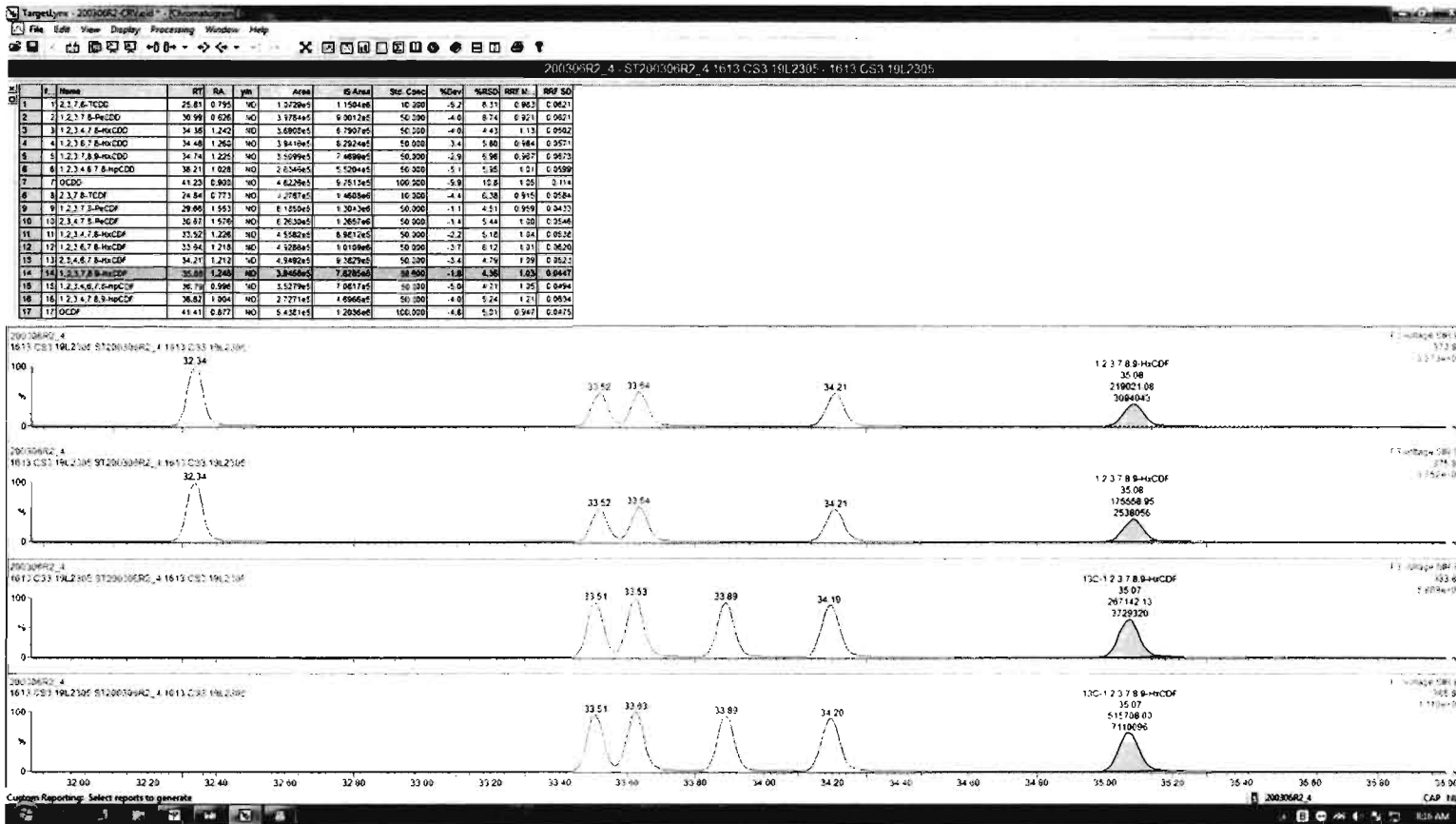
200306R2_4



DPE3

200306R2_4





Dataset: Untitled

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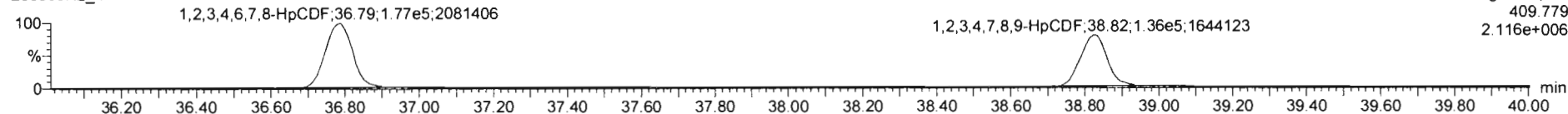
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1,2,3,4,6,7,8-HpCDF

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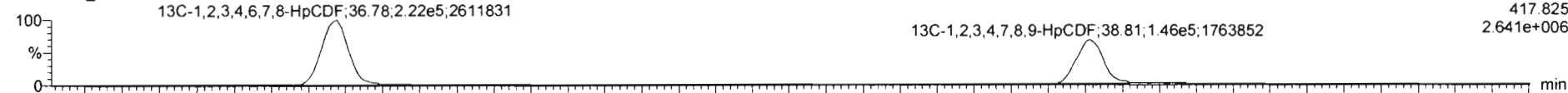


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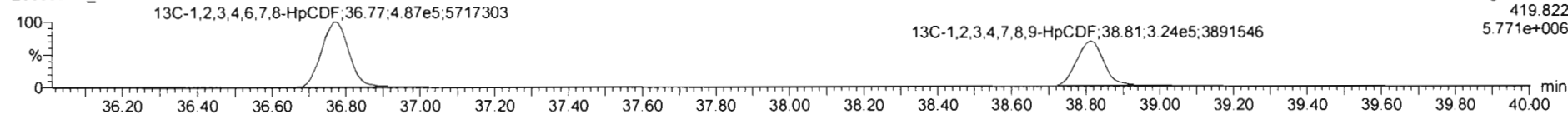


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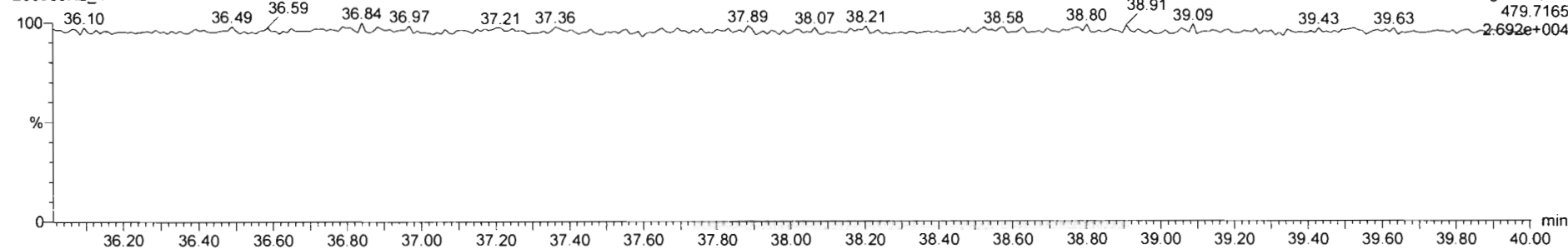


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DPE4

200306R2_4

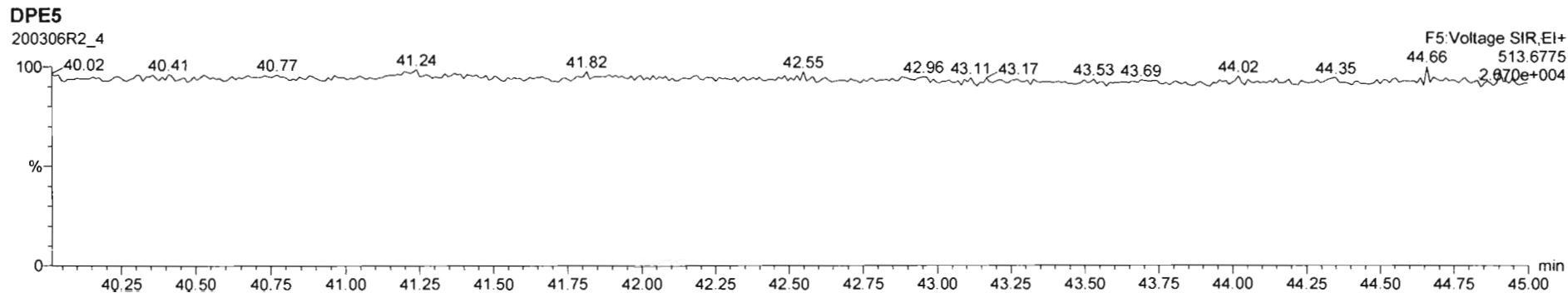
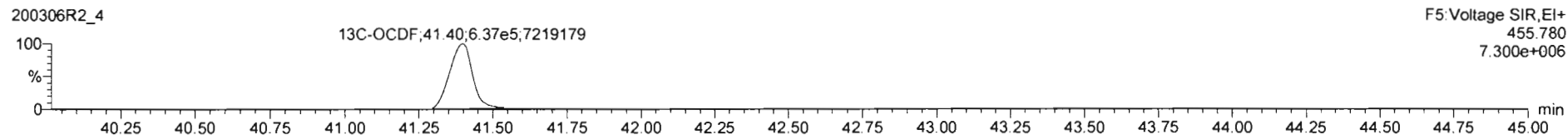
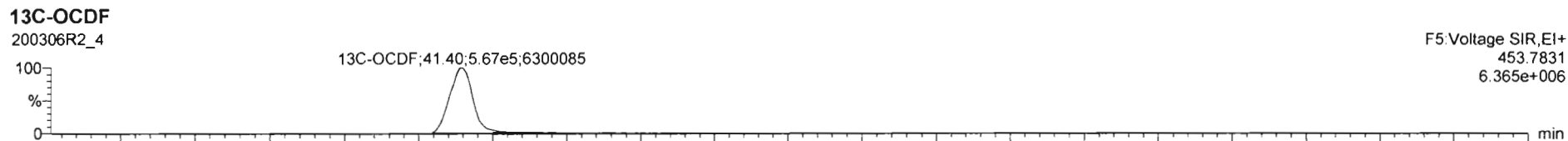
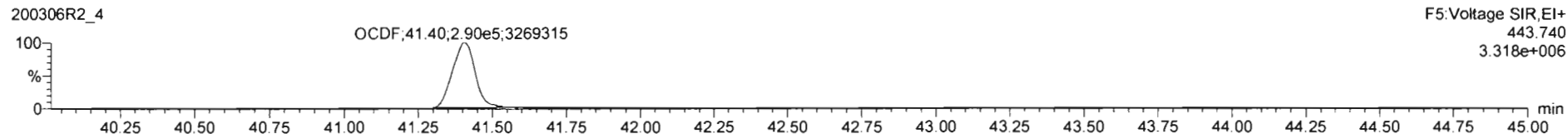
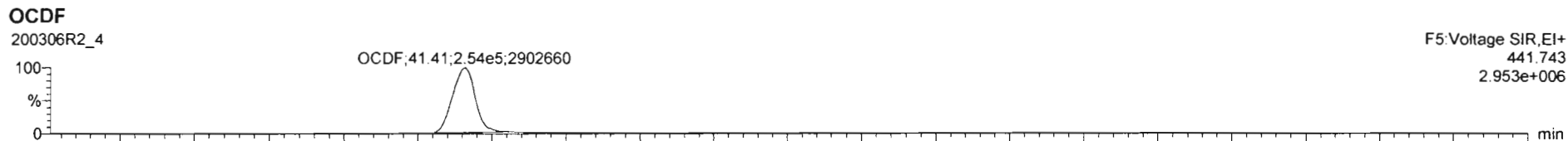


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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

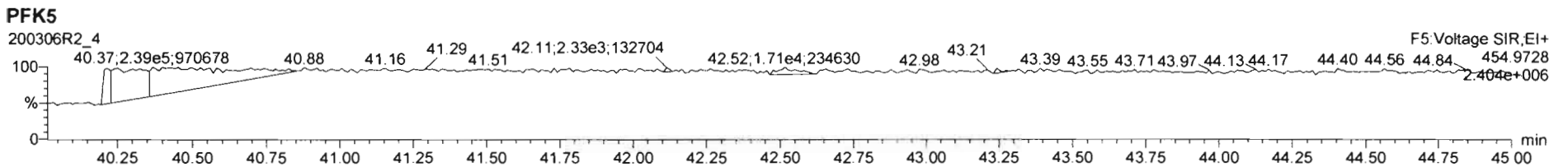
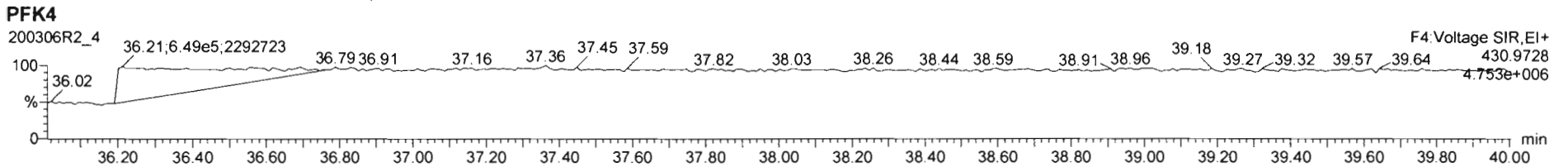
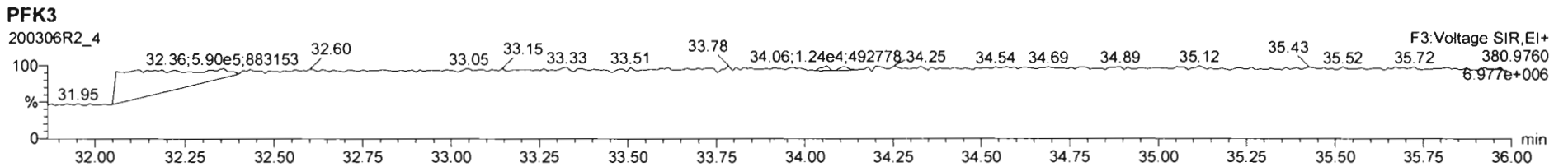
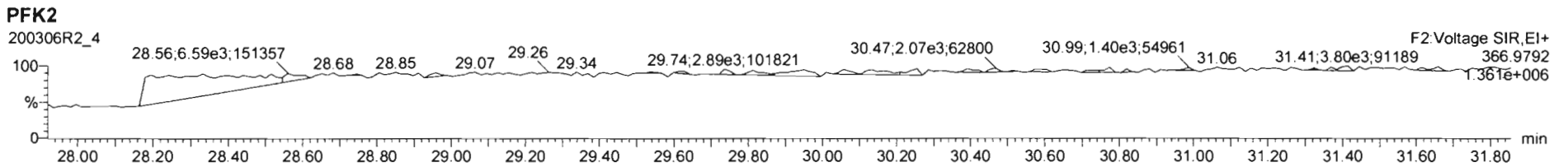
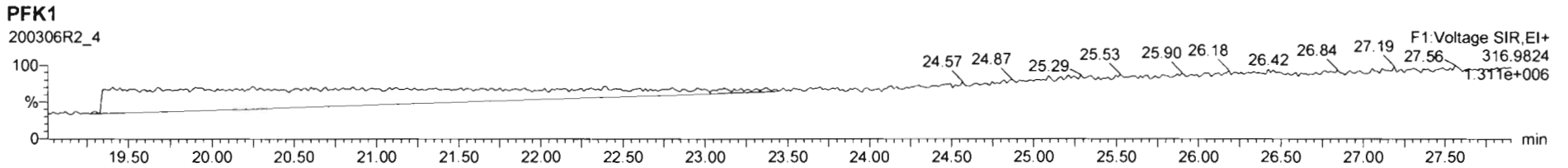
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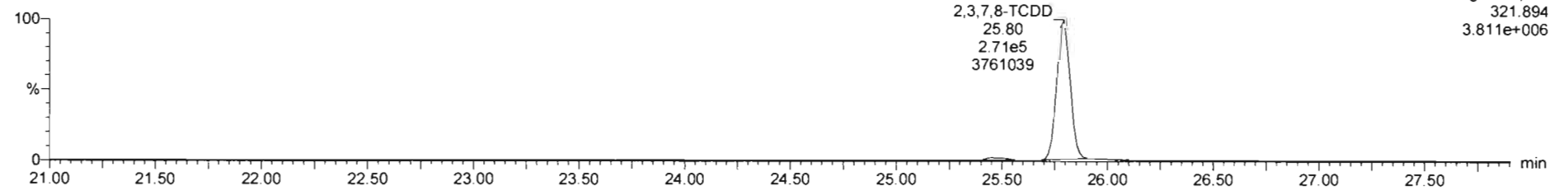
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2,3,7,8-TCDD

200306R2_5

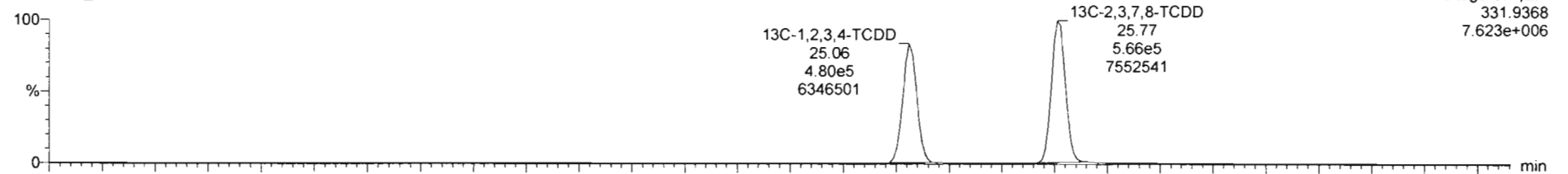


200306R2_5

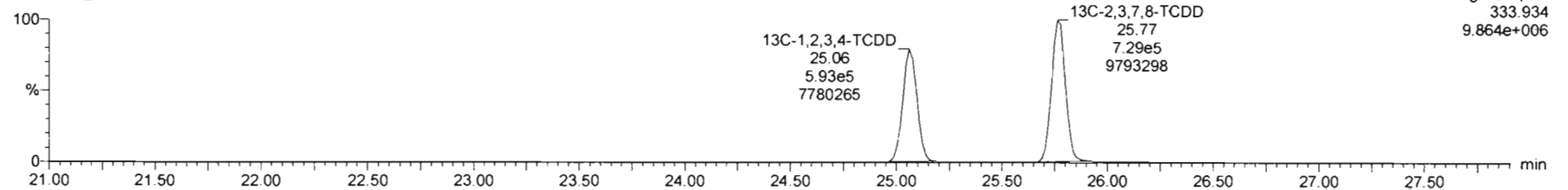


13C-2,3,7,8-TCDD

200306R2_5



200306R2_5



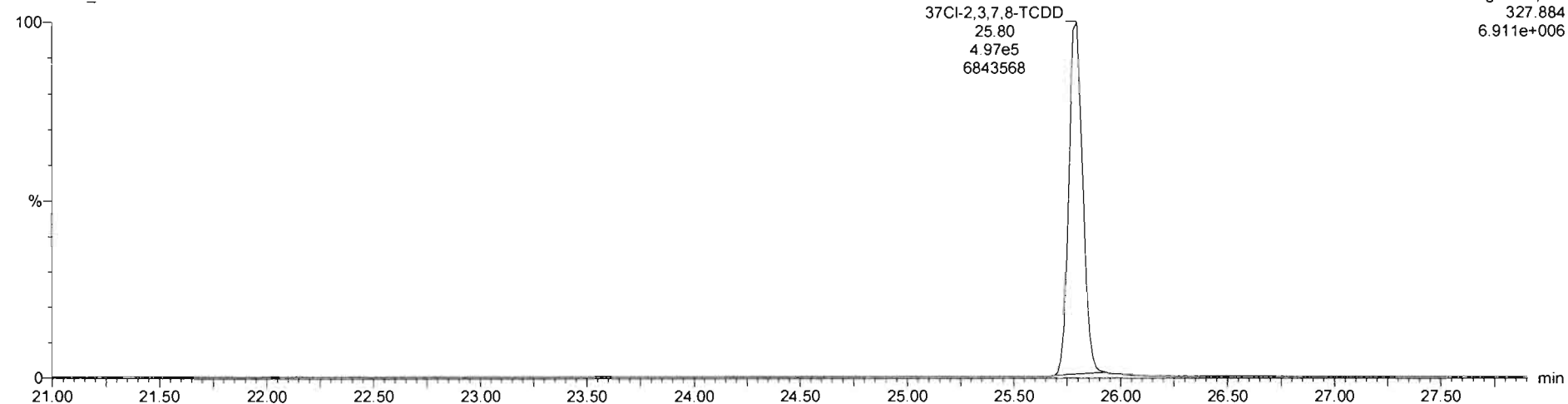
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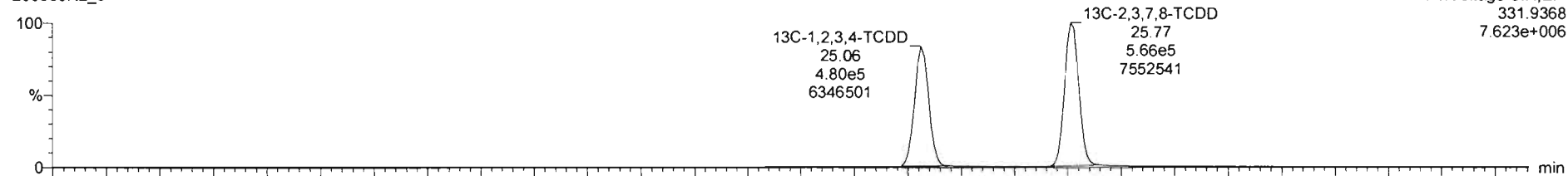
37Cl-2,3,7,8-TCDD

200306R2_5

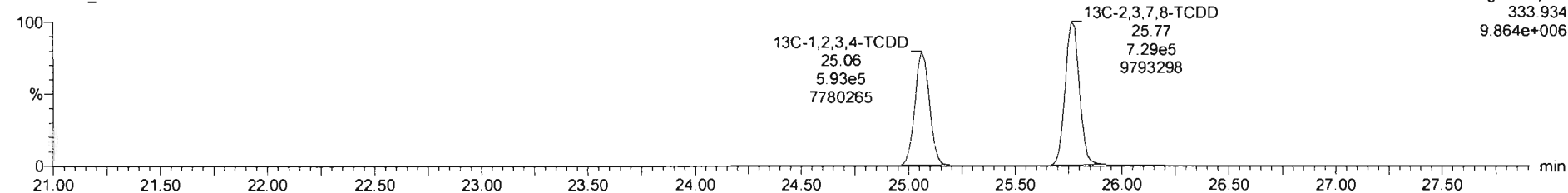


13C-1,2,3,4-TCDD

200306R2_5



200306R2_5



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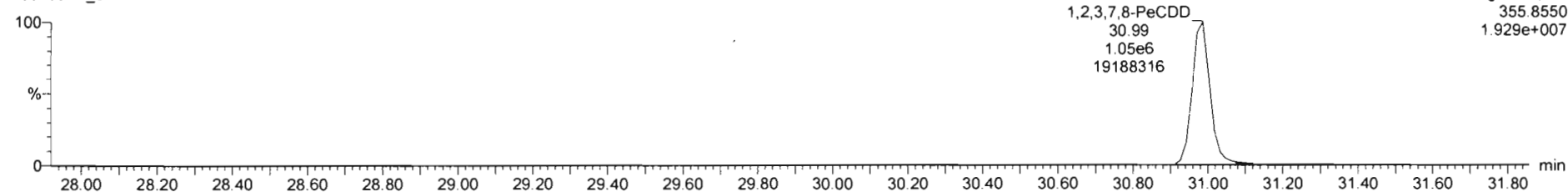
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1,2,3,7,8-PeCDD

200306R2_5

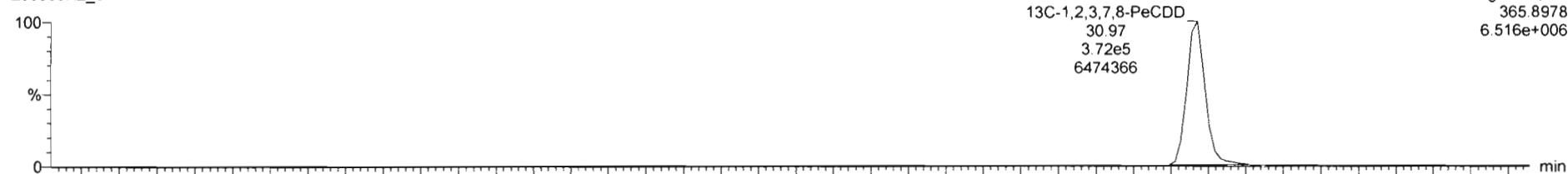


200306R2_5

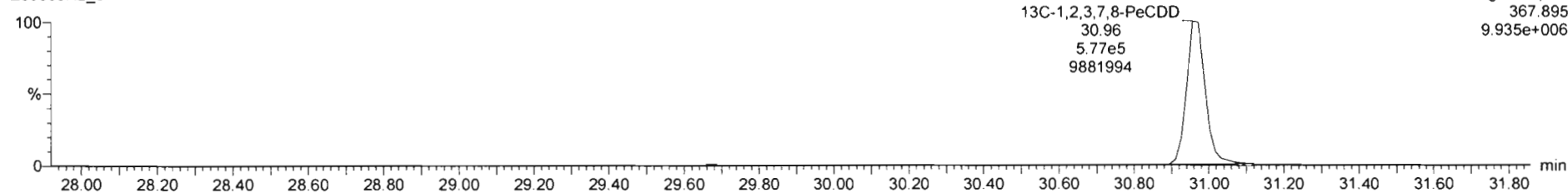


13C-1,2,3,7,8-PeCDD

200306R2_5



200306R2_5



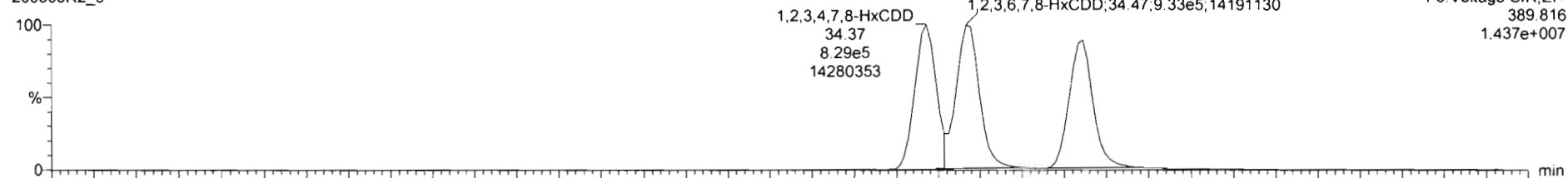
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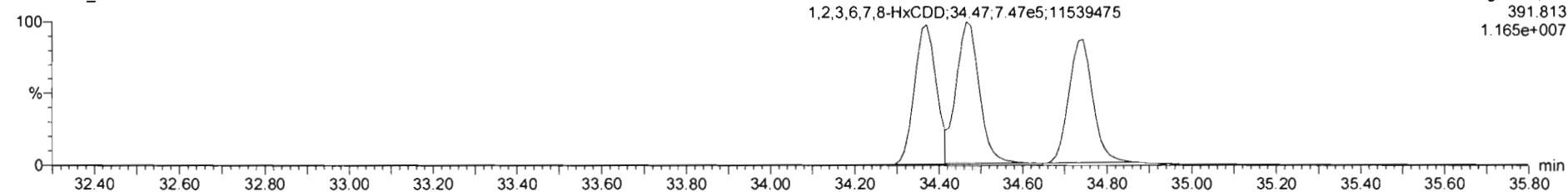
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1,2,3,4,7,8-HxCDD

200306R2_5

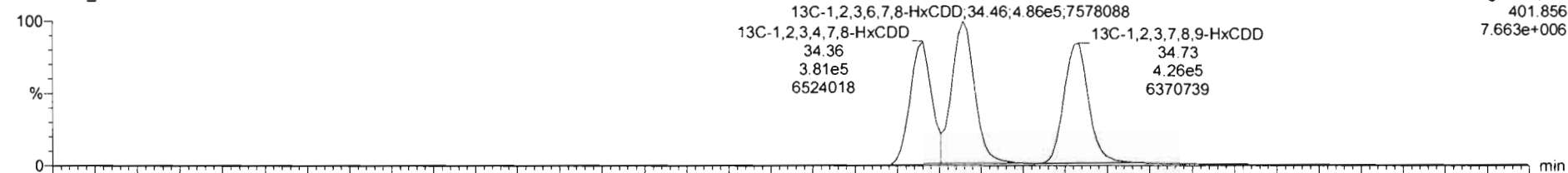


200306R2_5

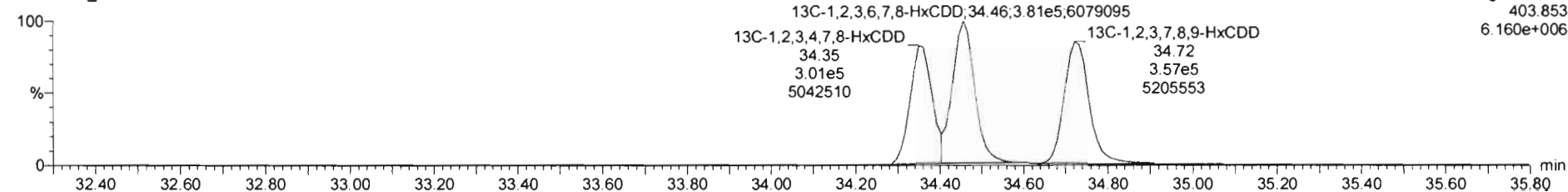


13C-1,2,3,4,7,8-HxCDD

200306R2_5



200306R2_5



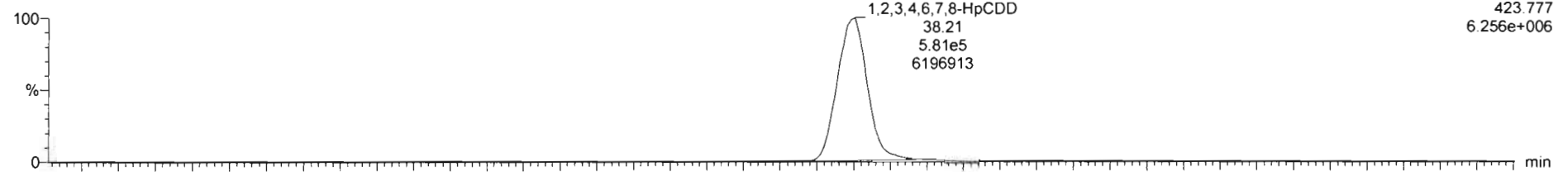
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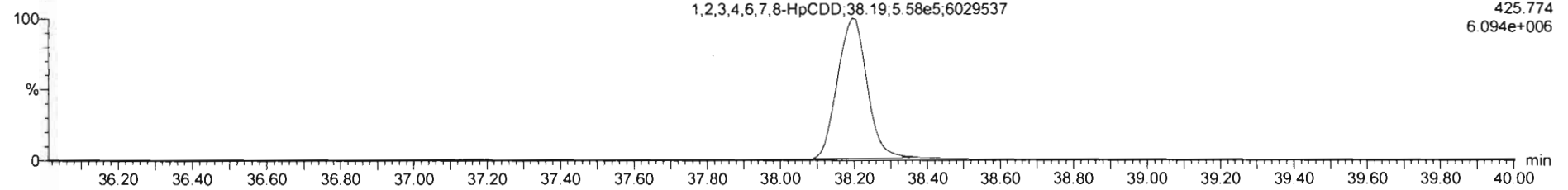
1,2,3,4,6,7,8-HpCDD

200306R2_5



F4: Voltage SIR, EI+
423.777
6.256e+006

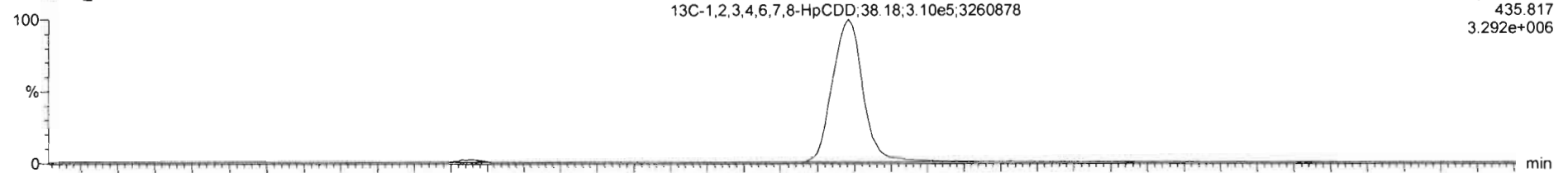
200306R2_5



F4: Voltage SIR, EI+
425.774
6.094e+006

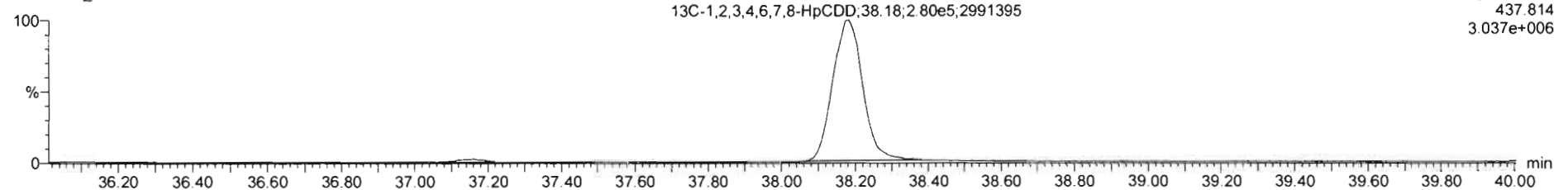
13C-1,2,3,4,6,7,8-HpCDD

200306R2_5



F4: Voltage SIR, EI+
435.817
3.292e+006

200306R2_5



F4: Voltage SIR, EI+
437.814
3.037e+006

Dataset: Untitled

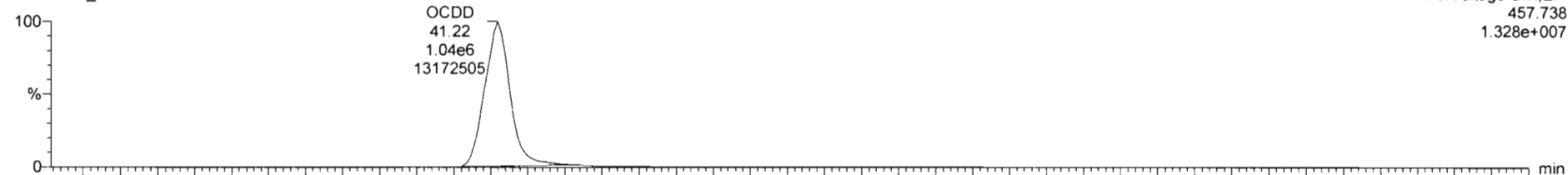
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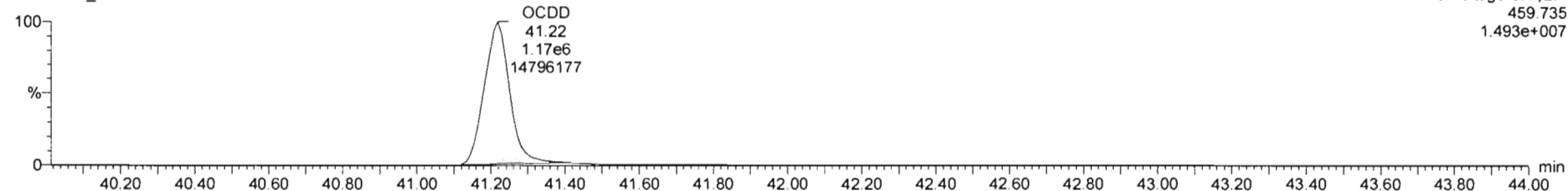
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OCDD

200306R2_5

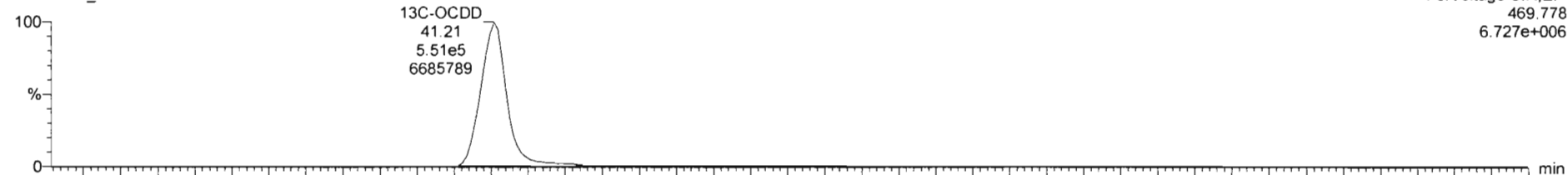


200306R2_5

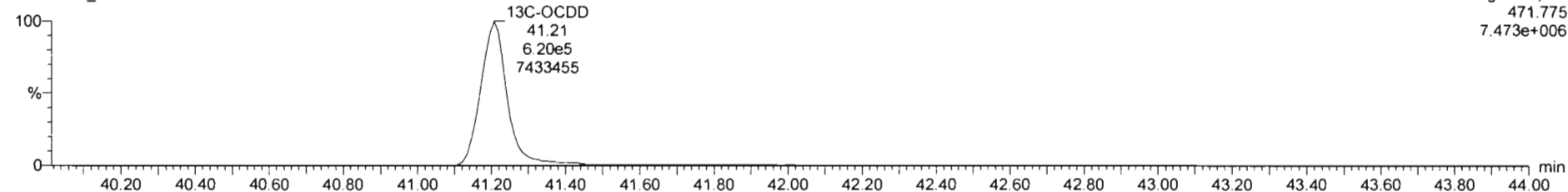


13C-OCDD

200306R2_5



200306R2_5



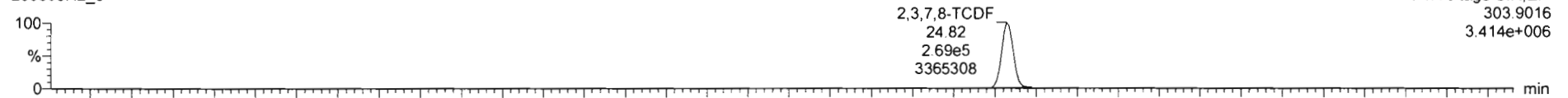
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

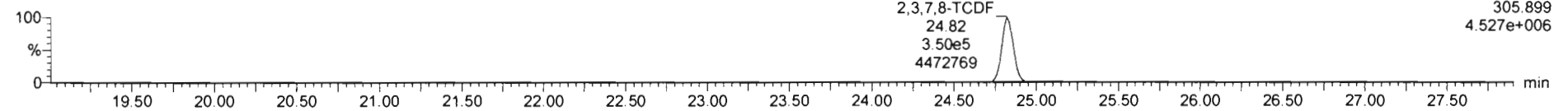
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2,3,7,8-TCDF

200306R2_5

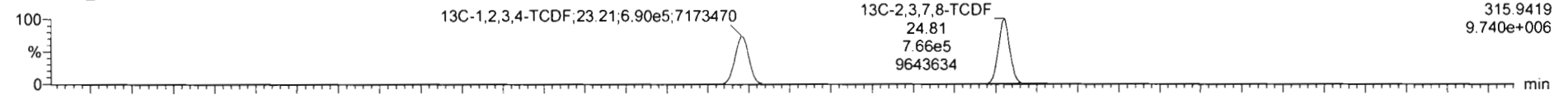


200306R2_5

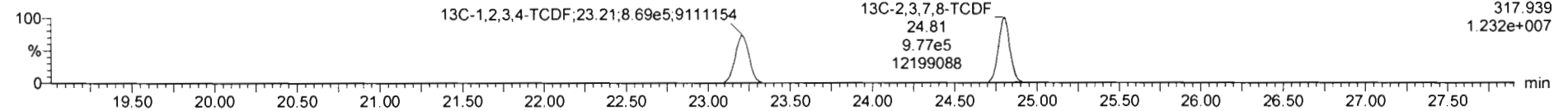


13C-2,3,7,8-TCDF

200306R2_5

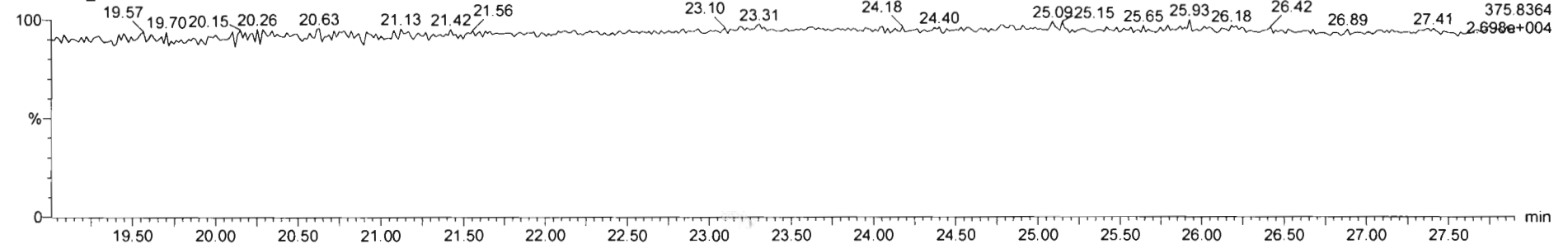


200306R2_5



DPE1

200306R2_5

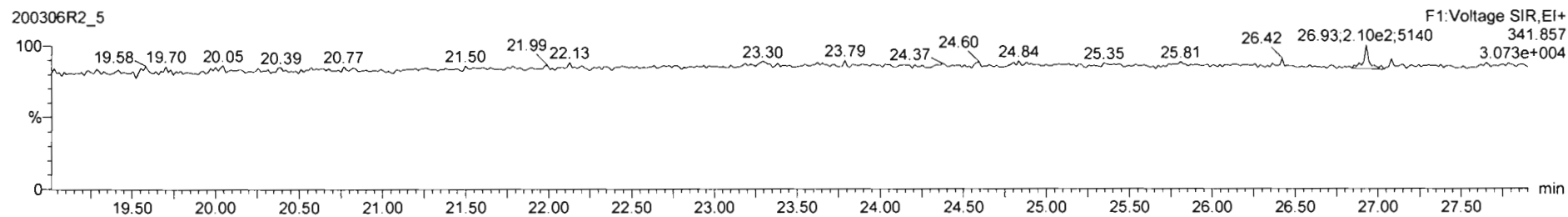
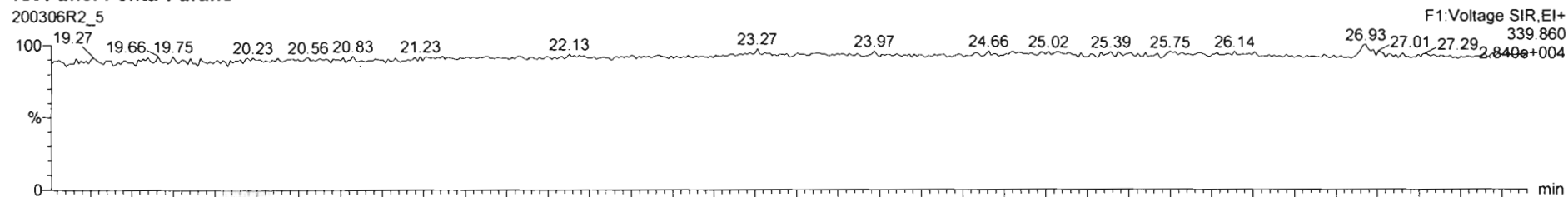


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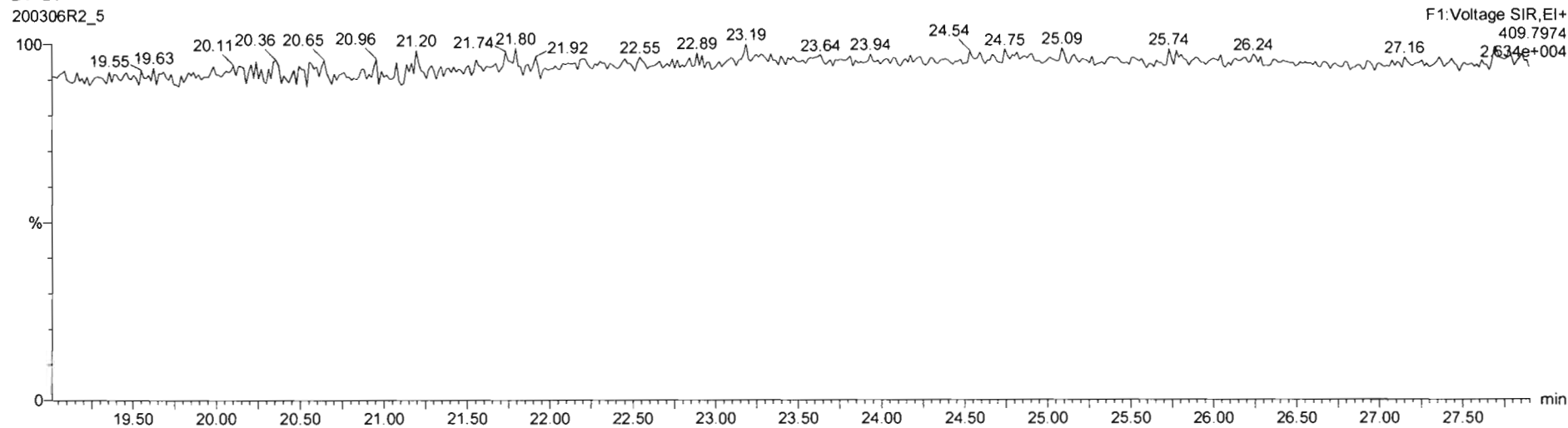
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Name: 200306R2_5, Date: 06-Mar-2020, Time: 16:19:37, ID: ST200306R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

1st Func. Penta-Furans



DPE6



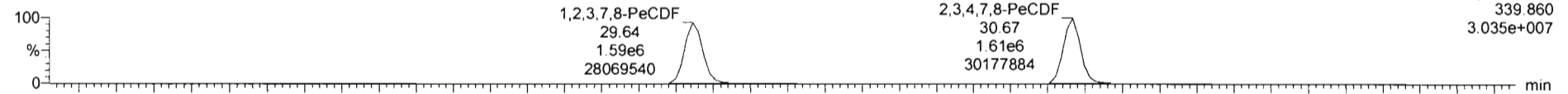
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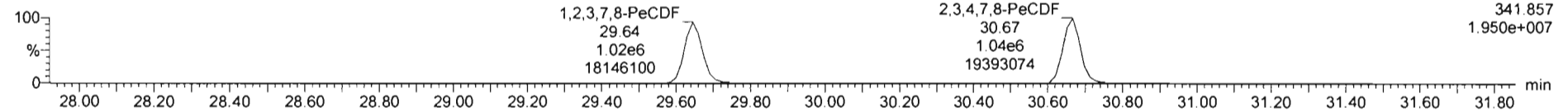
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1,2,3,7,8-PeCDF

200306R2_5

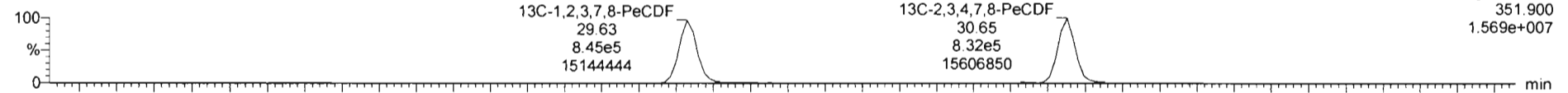


200306R2_5

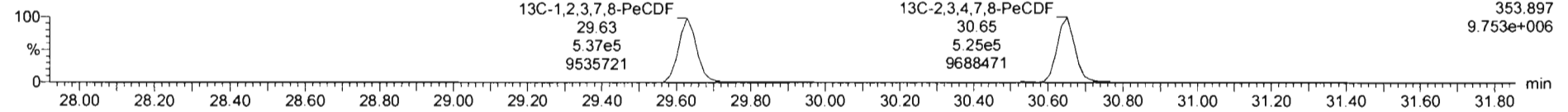


13C-1,2,3,7,8-PeCDF

200306R2_5

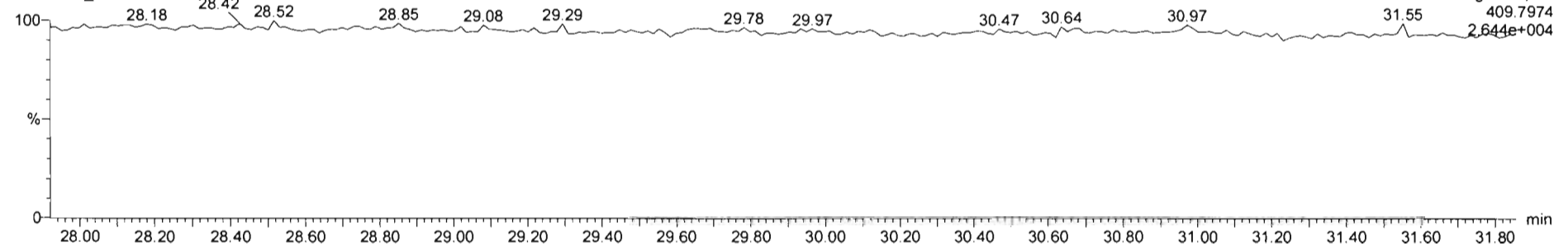


200306R2_5



DPE2

200306R2_5



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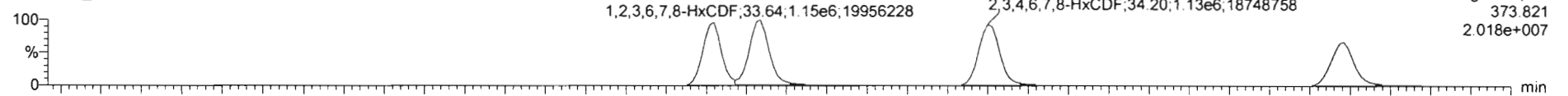
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

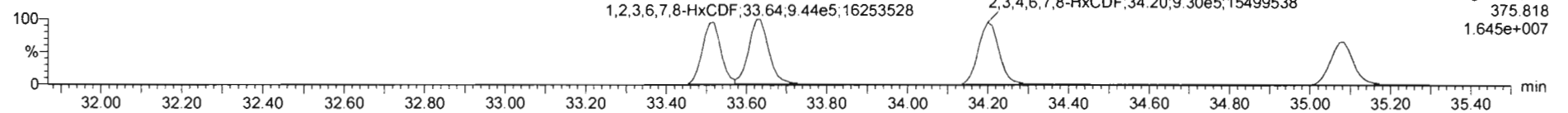
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1,2,3,4,7,8-HxCDF

200306R2_5

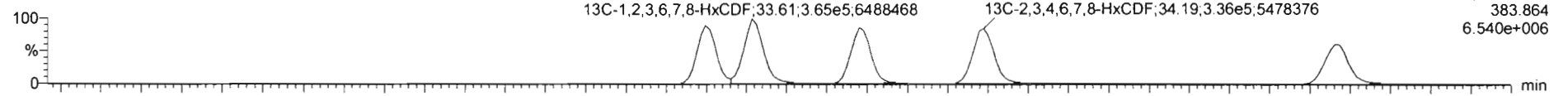


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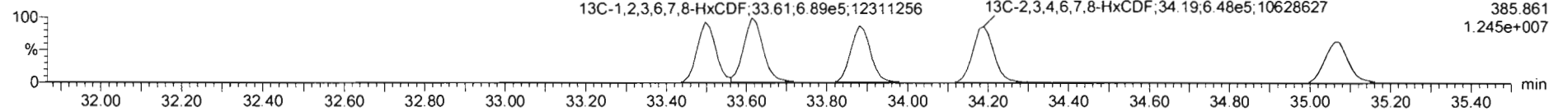


13C-1,2,3,4,7,8-HxCDF

200306R2_5

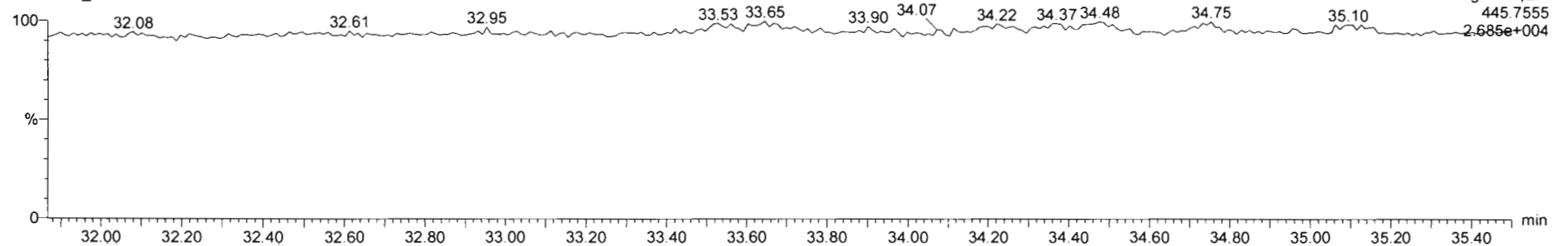


200306R2_5



DPE3

200306R2_5



Dataset: Untitled

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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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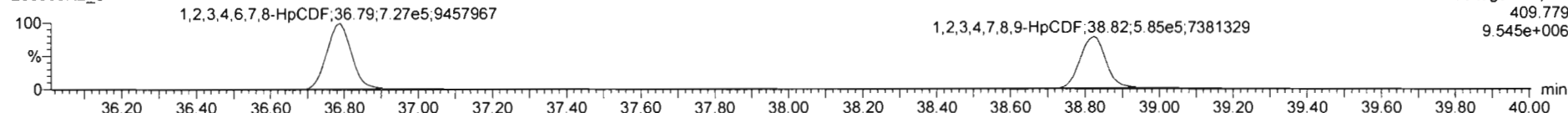
1,2,3,4,6,7,8-HpCDF

200306R2_5



F4:Voltage SIR,EI+
407.782
9.536e+006

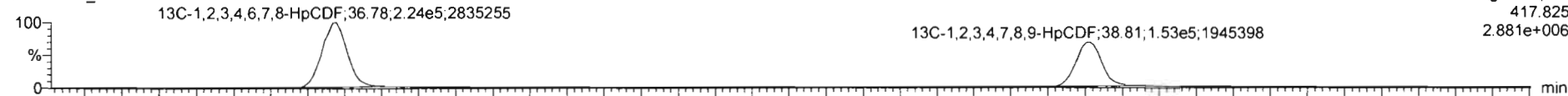
200306R2_5



F4:Voltage SIR,EI+
409.779
9.545e+006

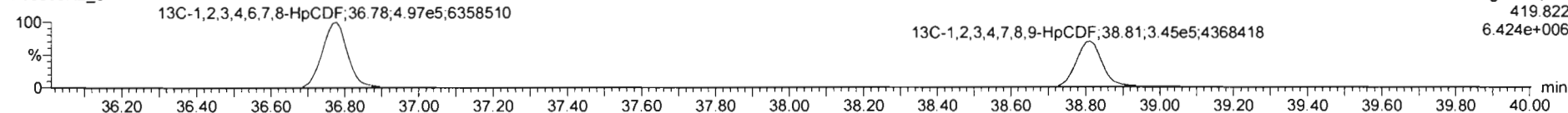
13C-1,2,3,4,6,7,8-HpCDF

200306R2_5



F4:Voltage SIR,EI+
417.825
2.881e+006

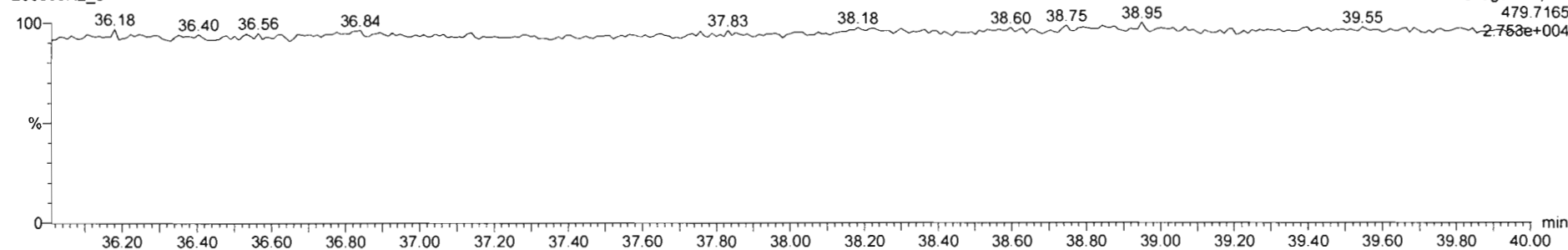
200306R2_5



F4:Voltage SIR,EI+
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6.424e+006

DPE4

200306R2_5



F4:Voltage SIR,EI+
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2.753e+004

Dataset: Untitled

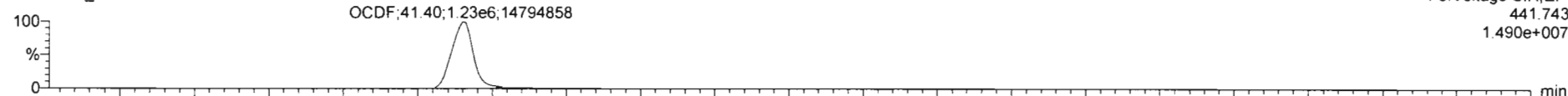
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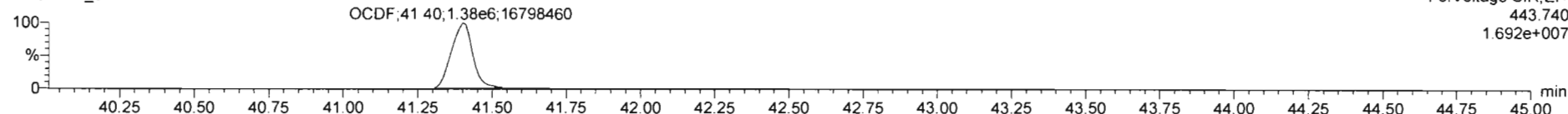
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OCDF

200306R2_5

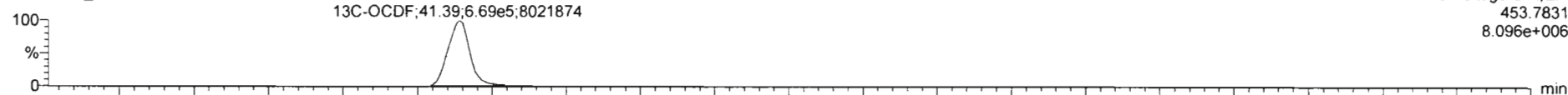


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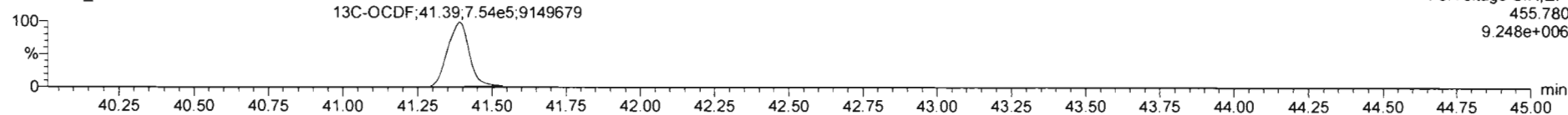


13C-OCDF

200306R2_5

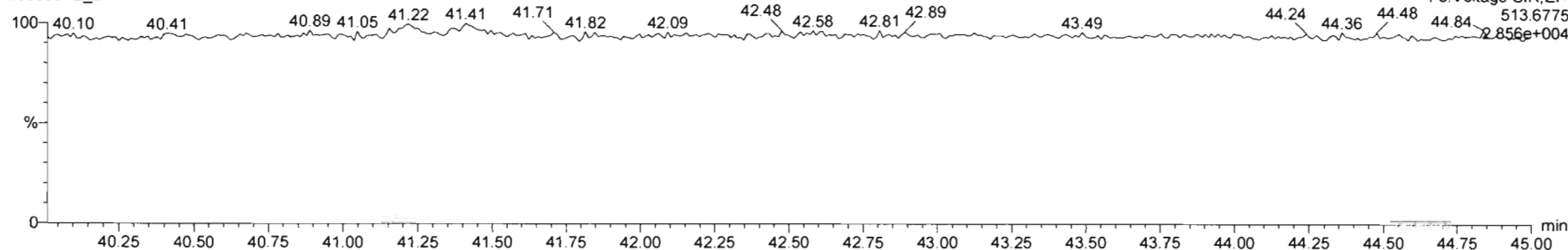


200306R2_5



DPE5

200306R2_5



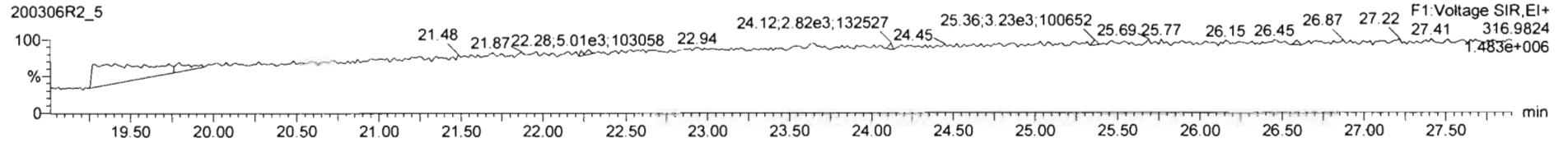
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Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

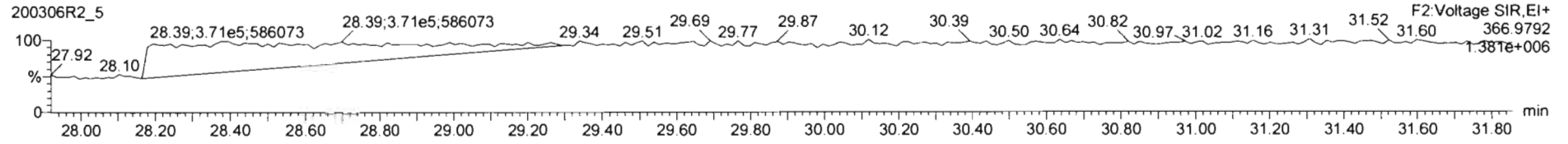
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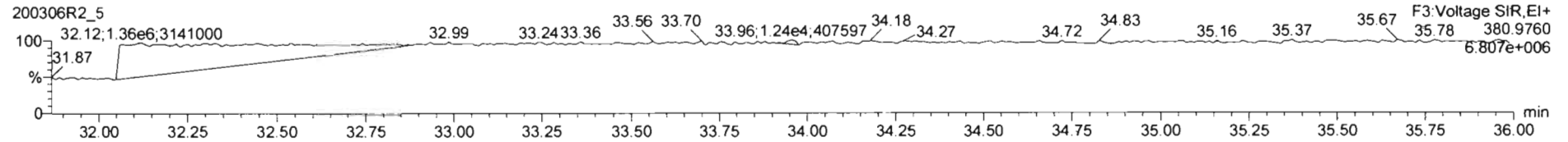
PFK1



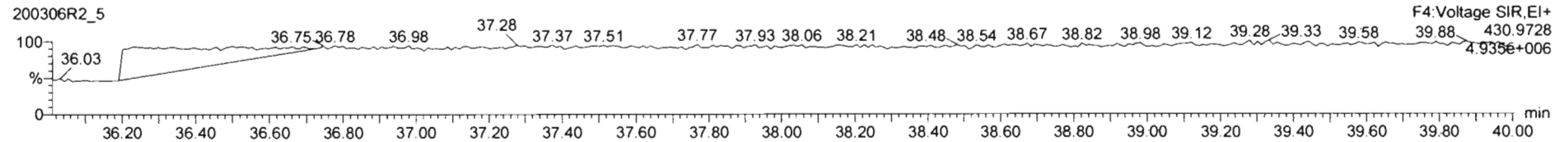
PFK2



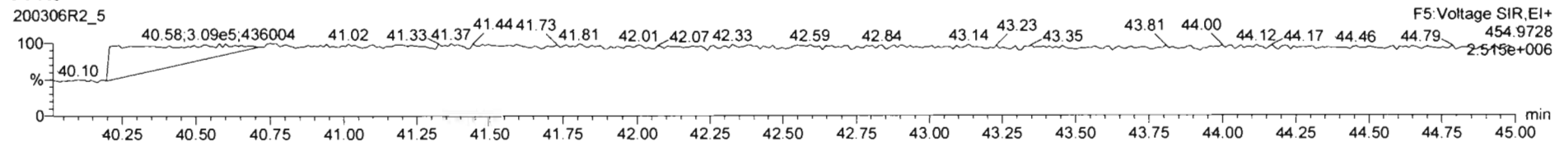
PFK3



PFK4



PFK5



Dataset: Untitled

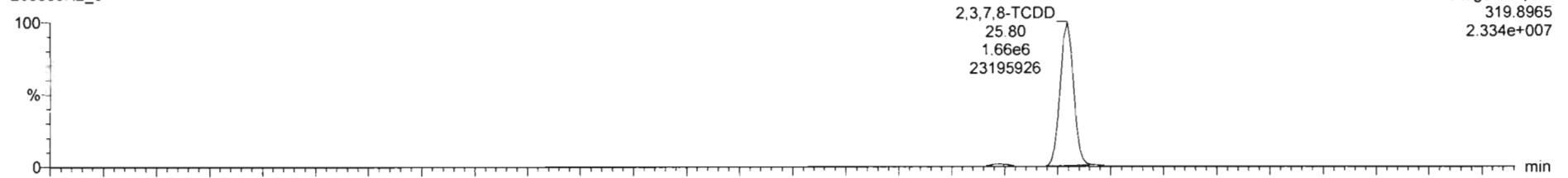
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

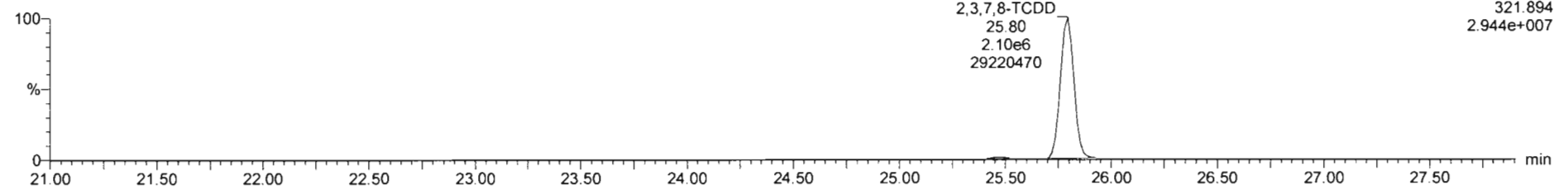
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2,3,7,8-TCDD

200306R2_6

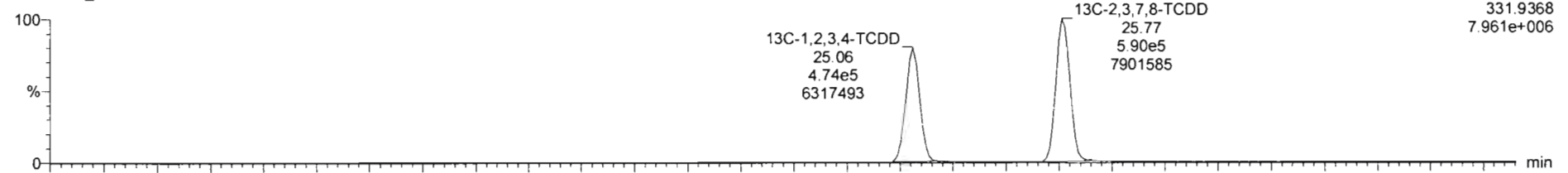


200306R2_6

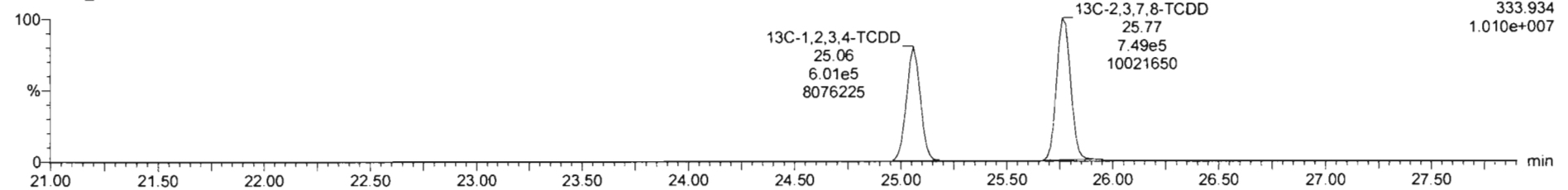


13C-2,3,7,8-TCDD

200306R2_6



200306R2_6



Dataset: Untitled

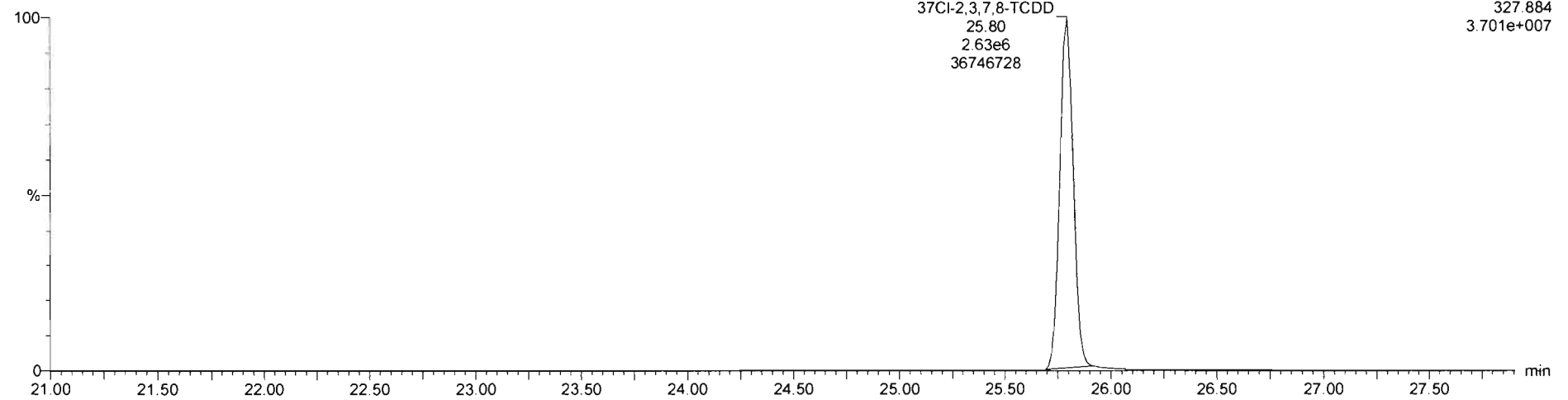
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_6; Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

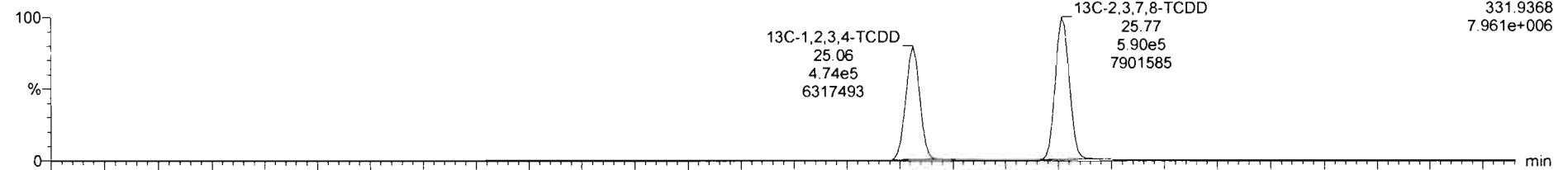
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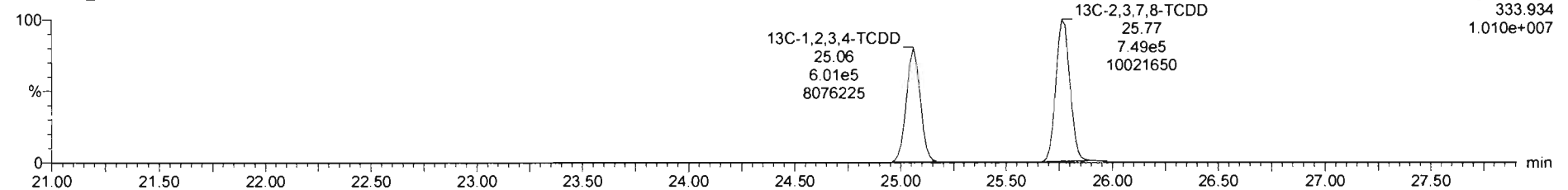


13C-1,2,3,4-TCDD

200306R2_6



200306R2_6



Dataset: Untitled

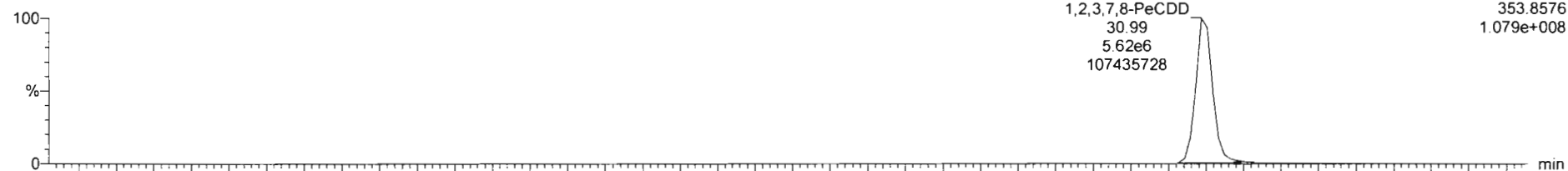
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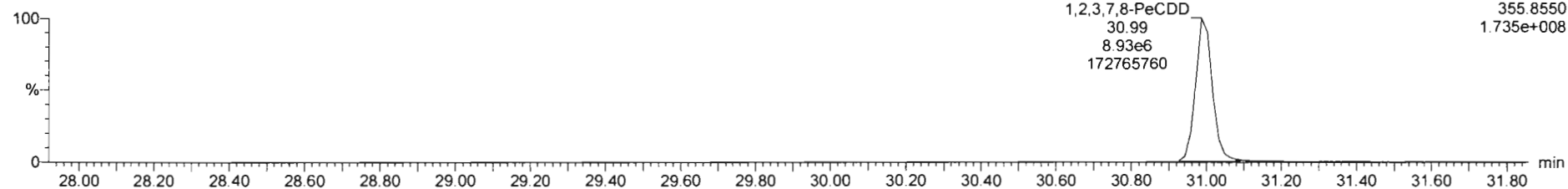
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1,2,3,7,8-PeCDD

200306R2_6

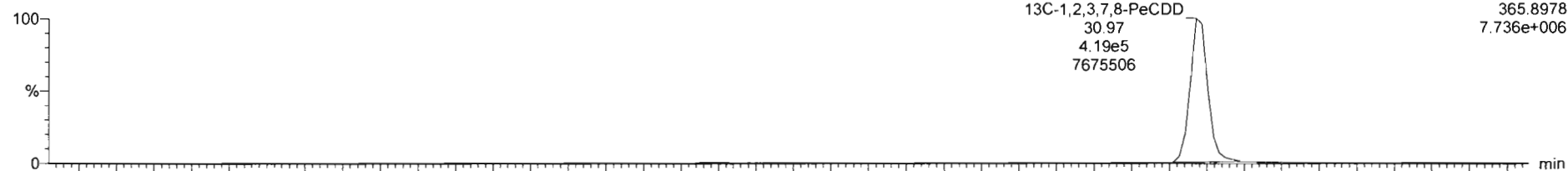


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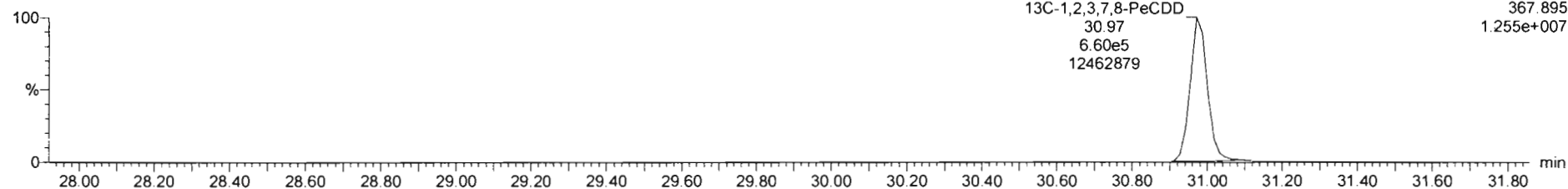


13C-1,2,3,7,8-PeCDD

200306R2_6



200306R2_6



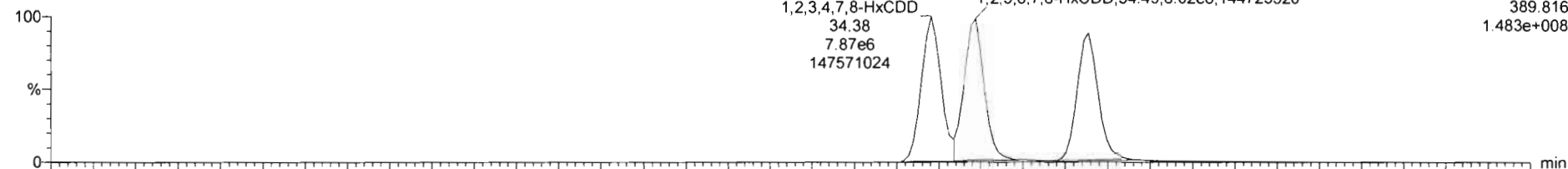
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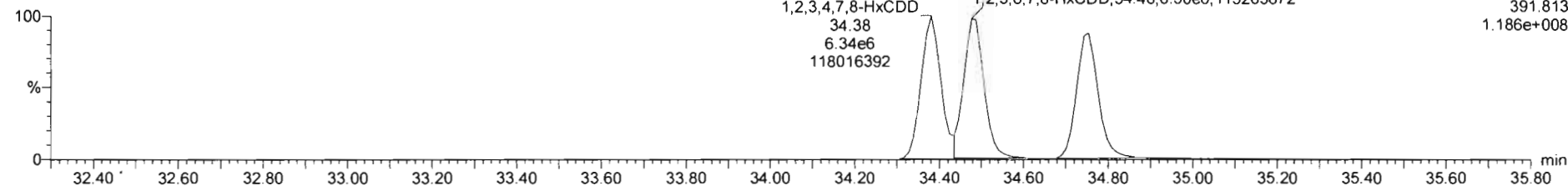
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1,2,3,4,7,8-HxCDD

200306R2_6

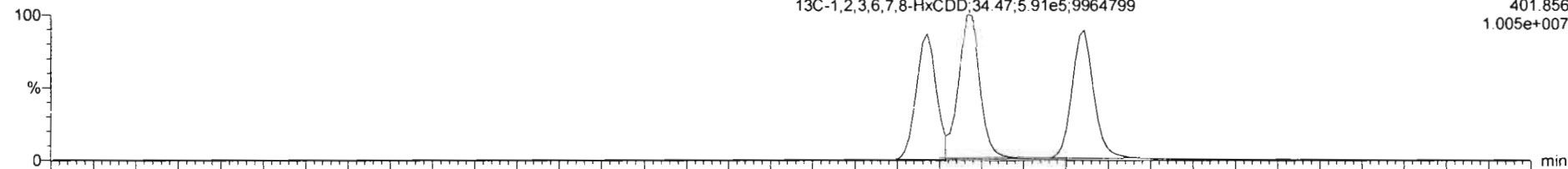


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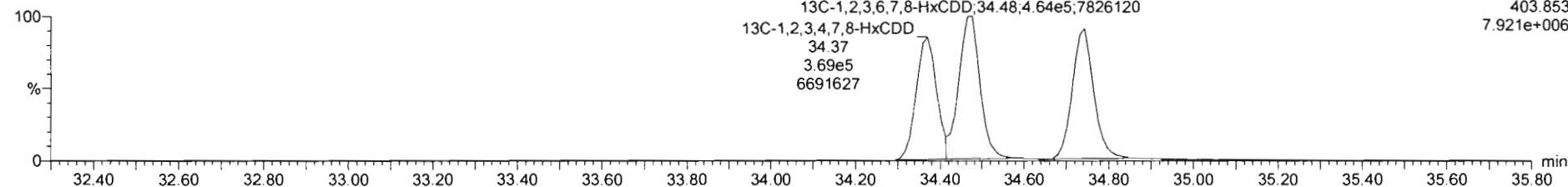


13C-1,2,3,4,7,8-HxCDD

200306R2_6



200306R2_6



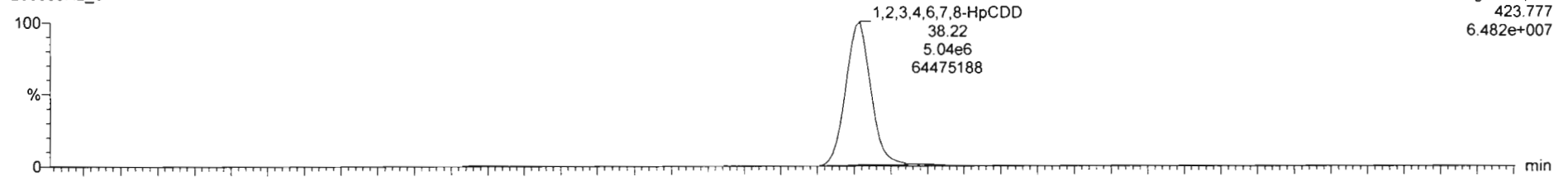
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Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

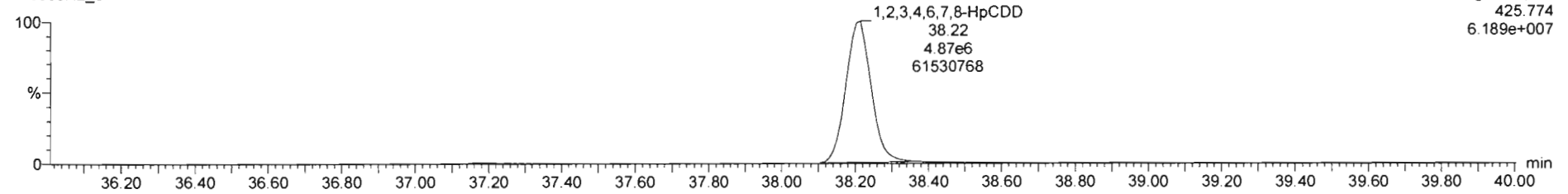
1,2,3,4,6,7,8-HpCDD

200306R2_6



F4: Voltage SIR, EI+
423.777
6.482e+007

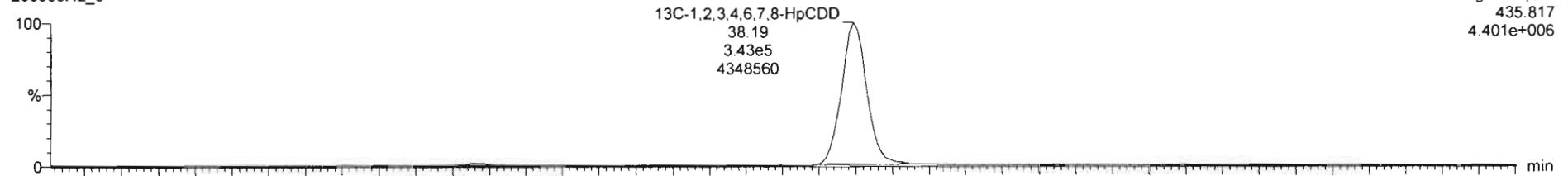
200306R2_6



F4: Voltage SIR, EI+
425.774
6.189e+007

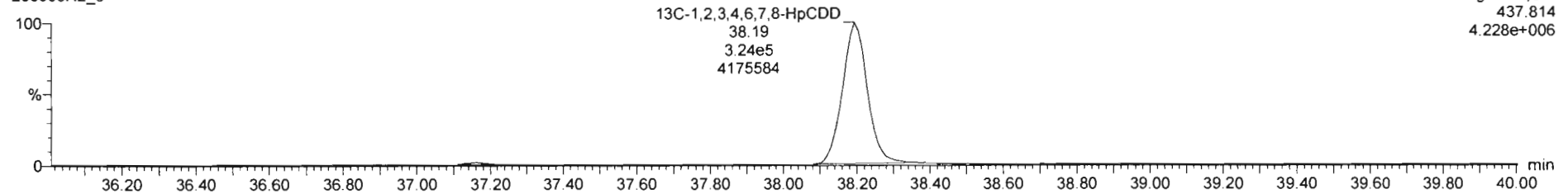
13C-1,2,3,4,6,7,8-HpCDD

200306R2_6



F4: Voltage SIR, EI+
435.817
4.401e+006

200306R2_6



F4: Voltage SIR, EI+
437.814
4.228e+006

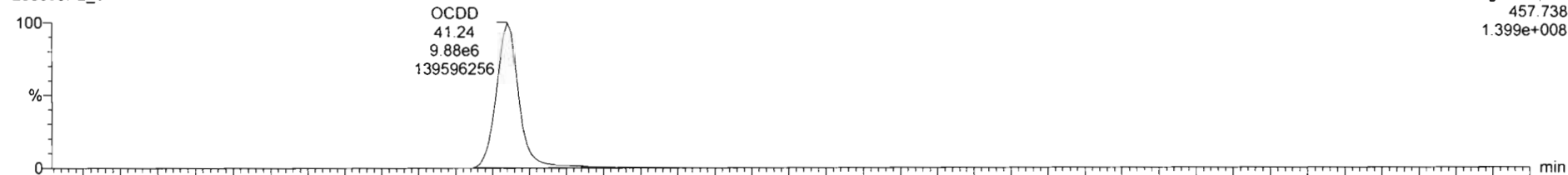
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

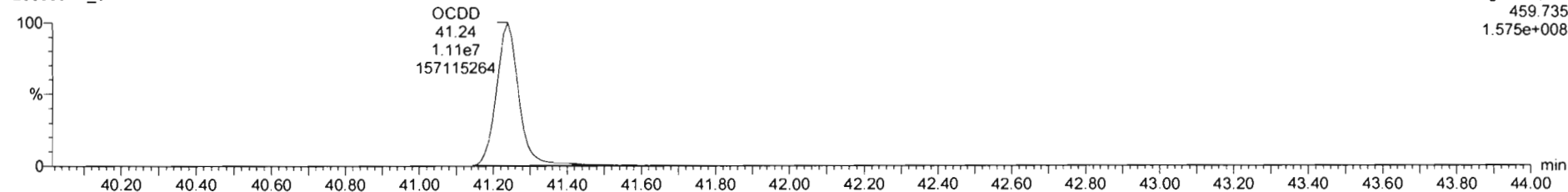
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OCDD

200306R2_6

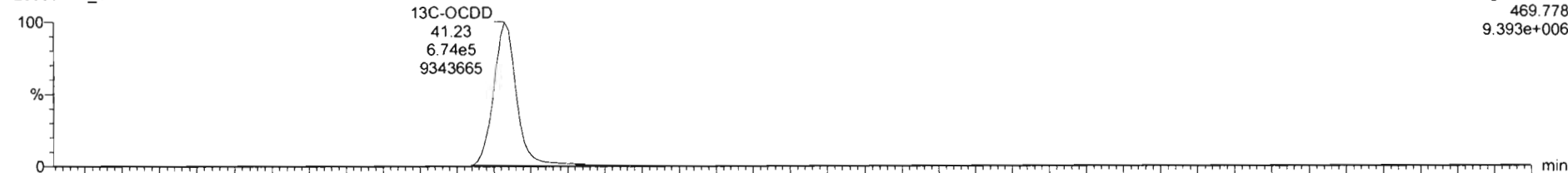


200306R2_6

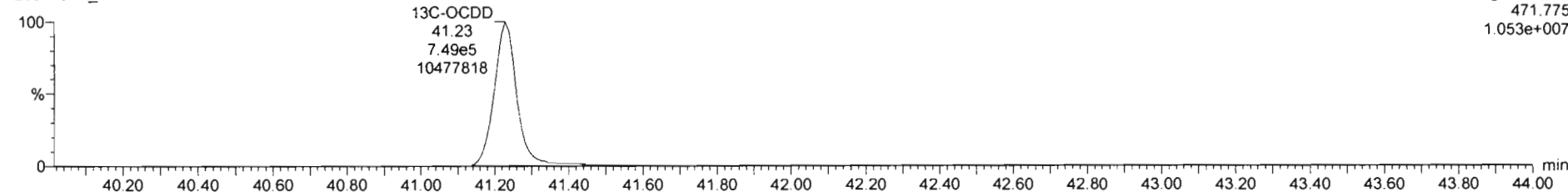


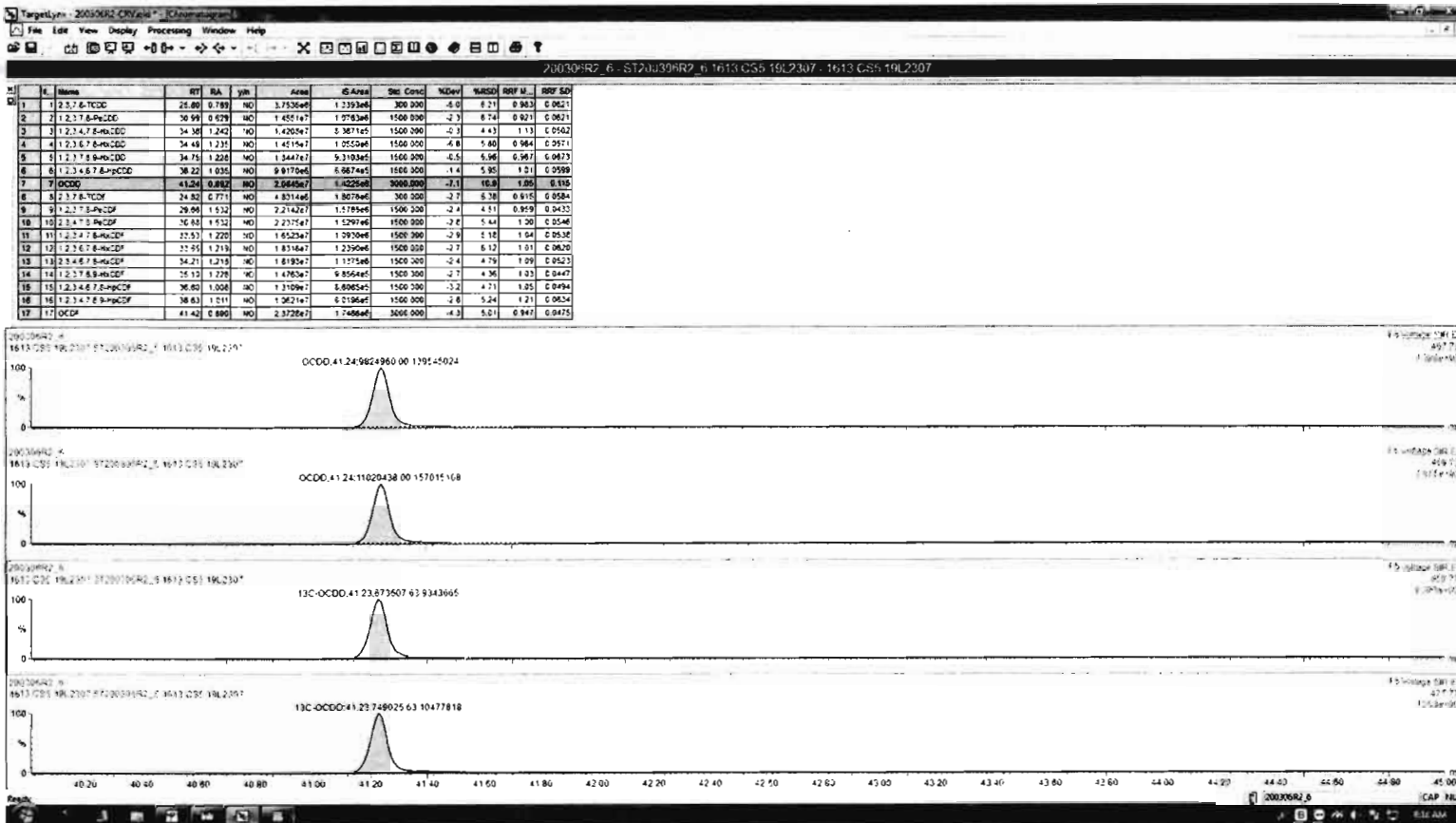
13C-OCDD

200306R2_6



200306R2_6





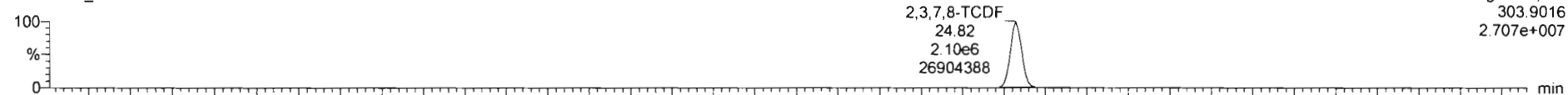
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

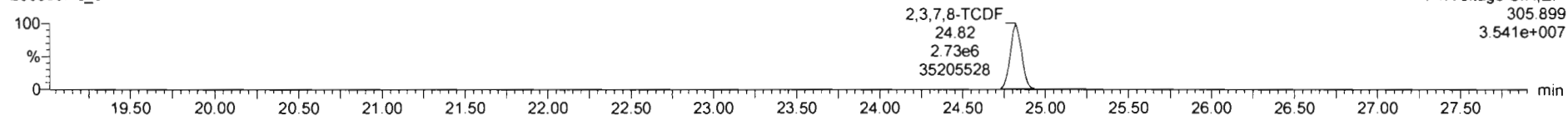
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2,3,7,8-TCDF

200306R2_6

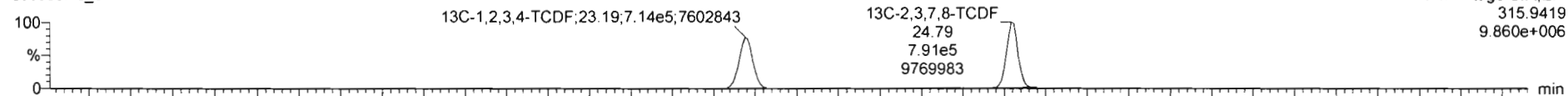


200306R2_6

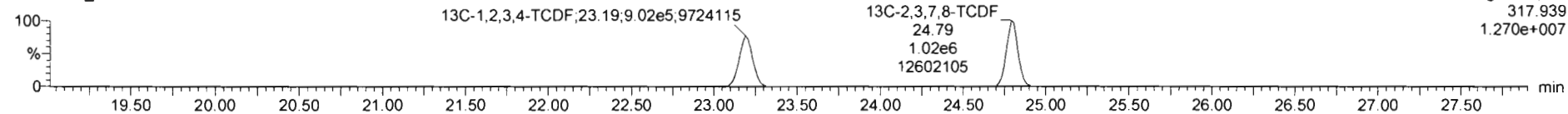


13C-2,3,7,8-TCDF

200306R2_6

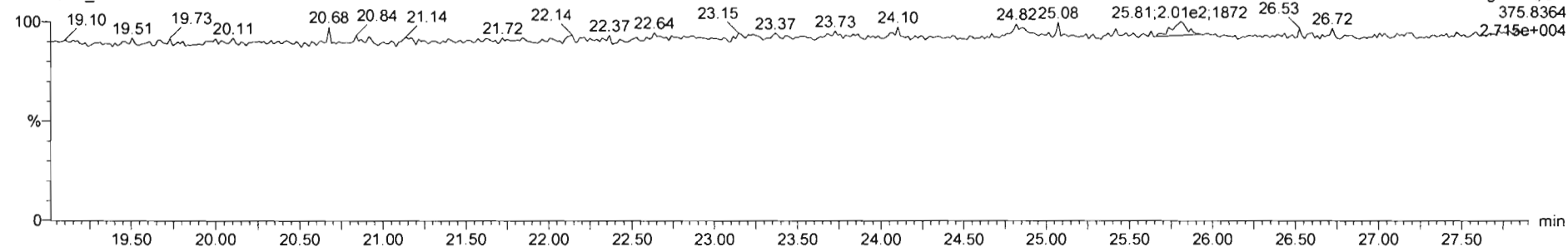


200306R2_6



DPE1

200306R2_6



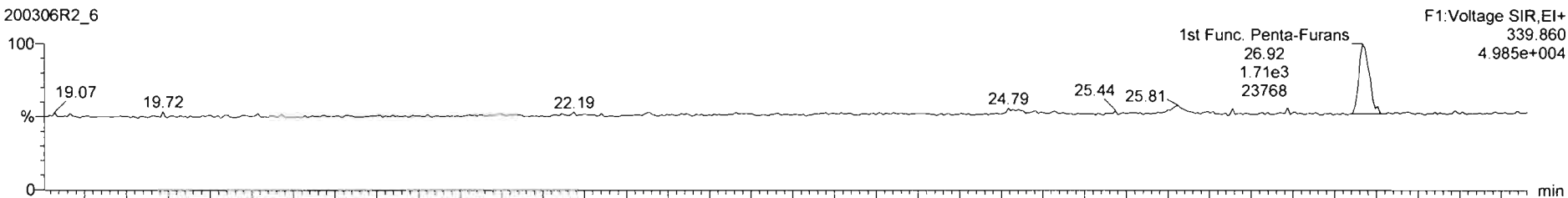
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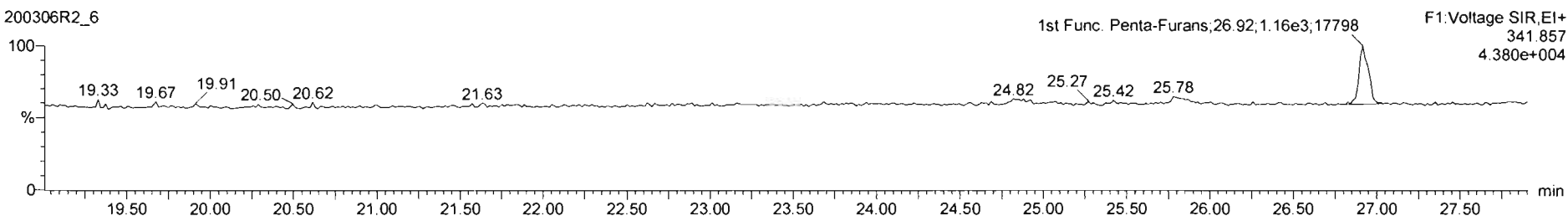
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200306R2_6

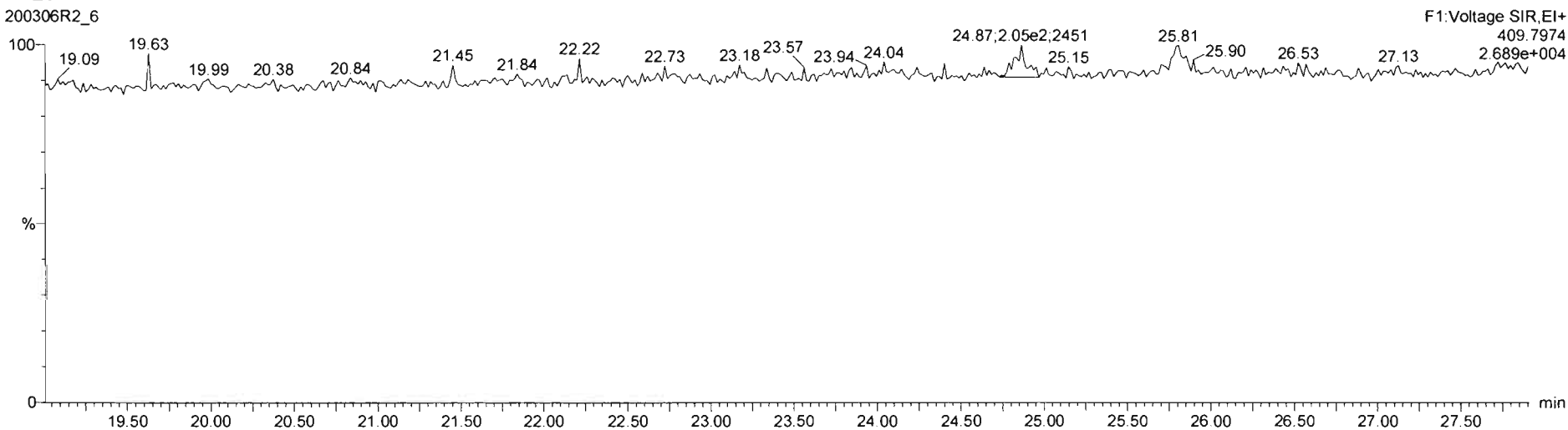


200306R2_6



DPE6

200306R2_6



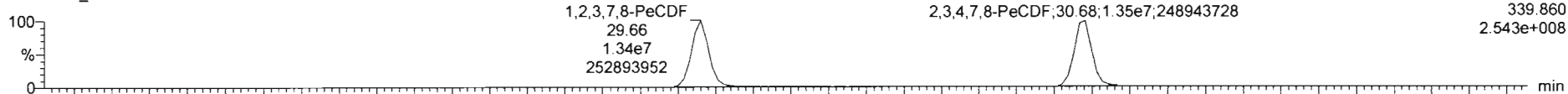
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Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

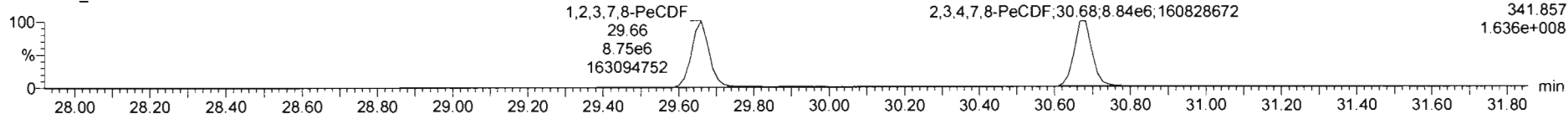
1,2,3,7,8-PeCDF

200306R2_6



F2:Voltage SIR,EI+
339.860
2.543e+008

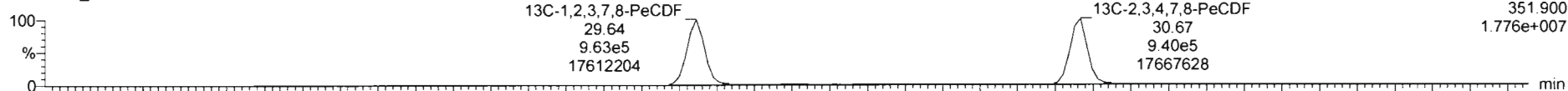
200306R2_6



F2:Voltage SIR,EI+
341.857
1.636e+008

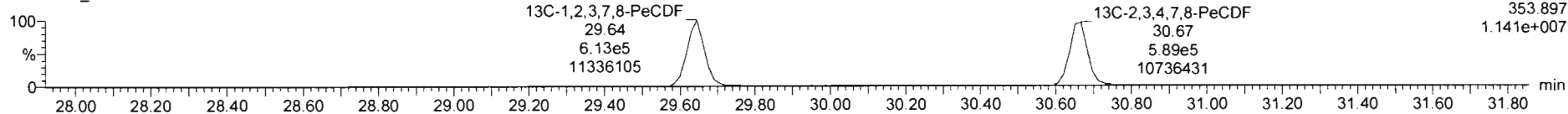
13C-1,2,3,7,8-PeCDF

200306R2_6



F2:Voltage SIR,EI+
351.900
1.776e+007

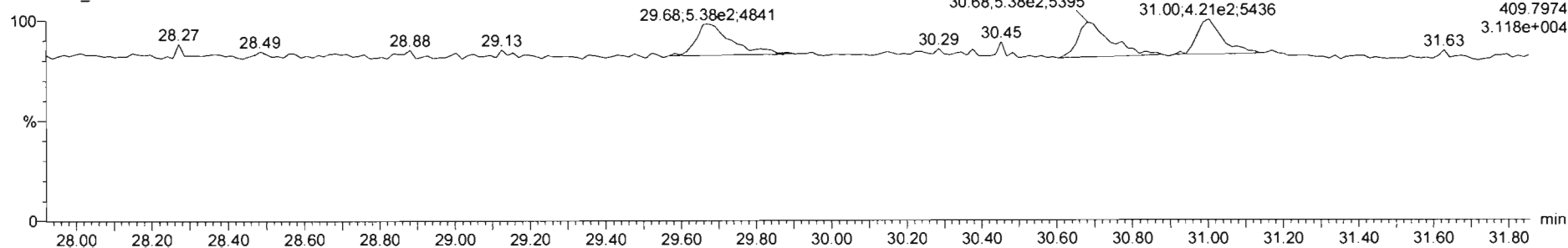
200306R2_6



F2:Voltage SIR,EI+
353.897
1.141e+007

DPE2

200306R2_6



F2:Voltage SIR,EI+
409.7974
3.118e+004

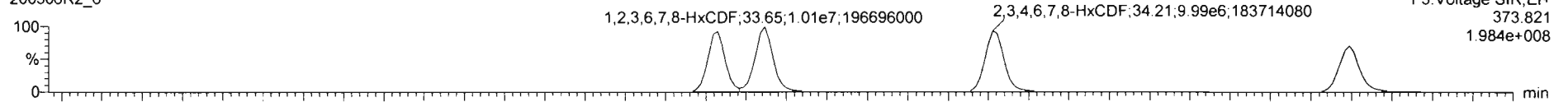
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

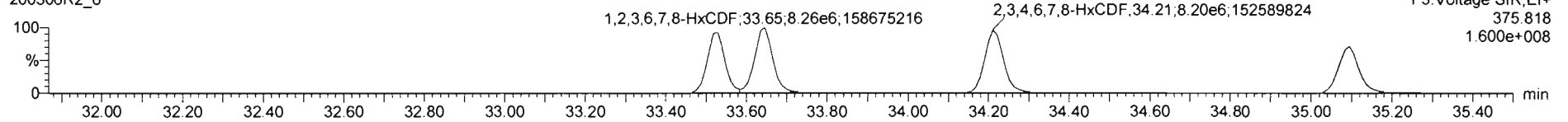
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1,2,3,4,7,8-HxCDF

200306R2_6

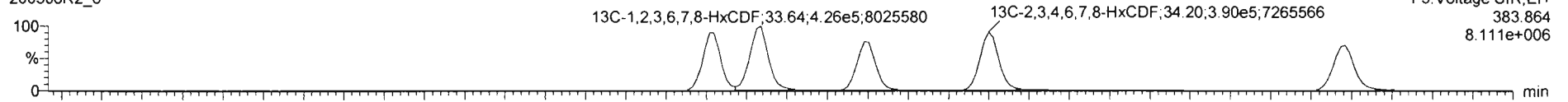


200306R2_6

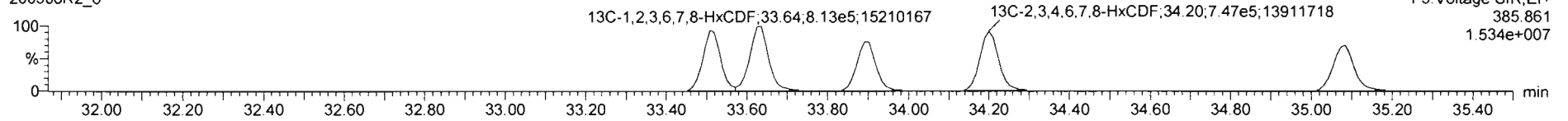


13C-1,2,3,4,7,8-HxCDF

200306R2_6

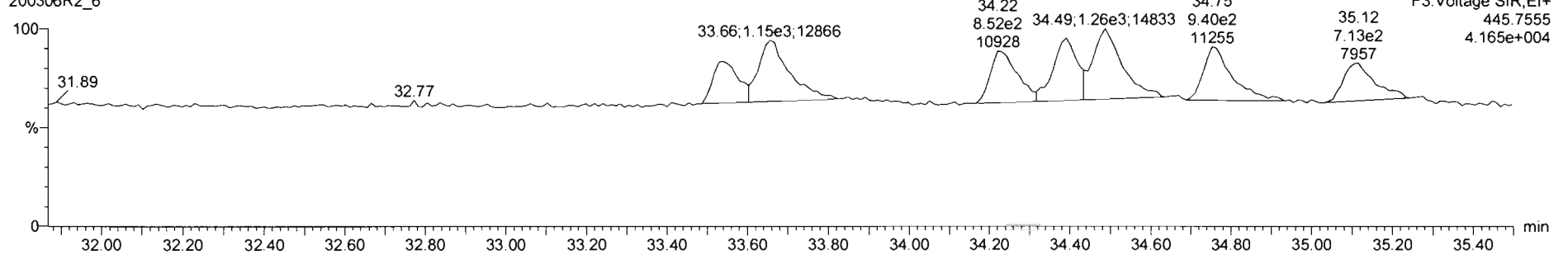


200306R2_6



DPE3

200306R2_6



Dataset: Untitled

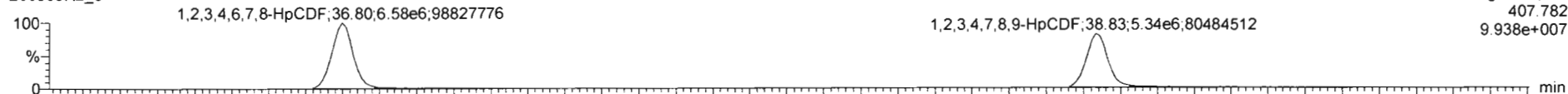
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

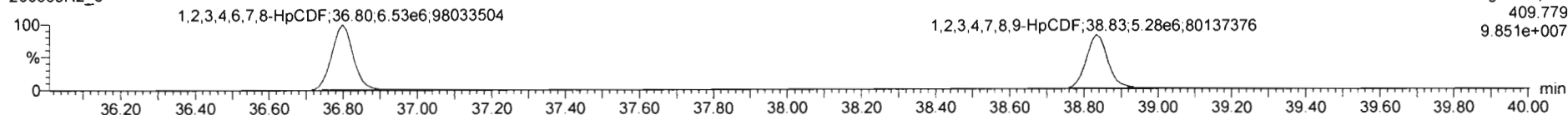
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1,2,3,4,6,7,8-HpCDF

200306R2_6

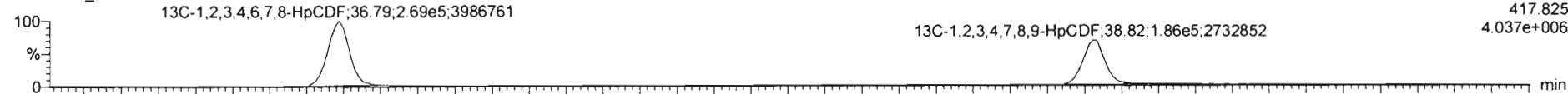


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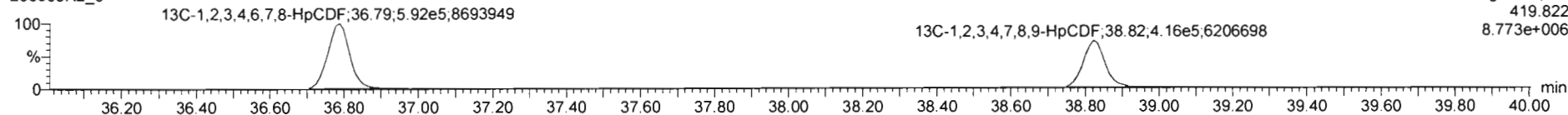


13C-1,2,3,4,6,7,8-HpCDF

200306R2_6

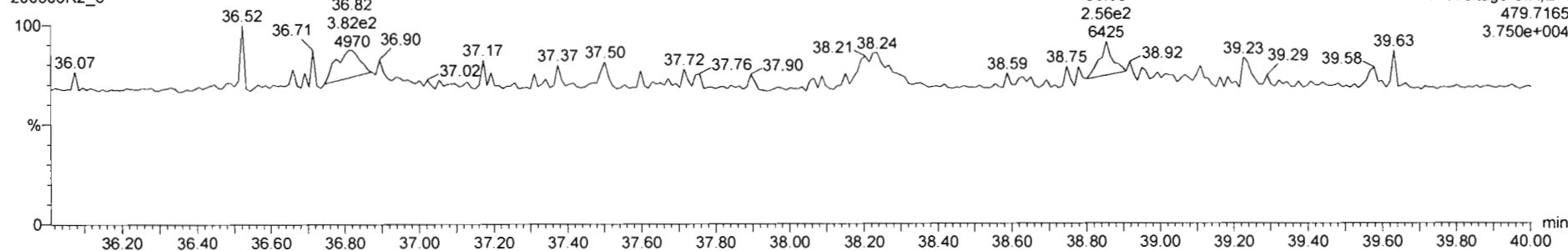


200306R2_6



DPE4

200306R2_6



Dataset: Untitled

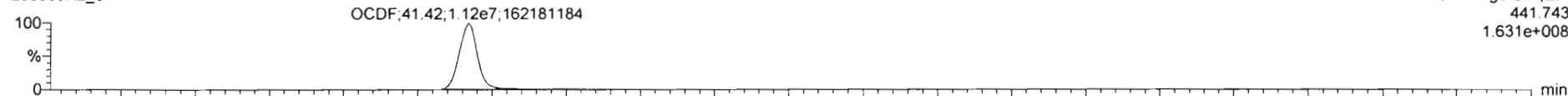
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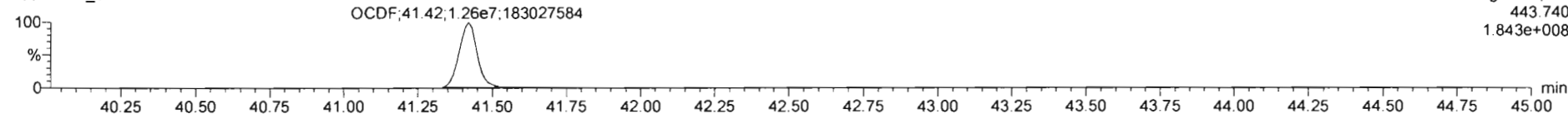
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OCDF

200306R2_6

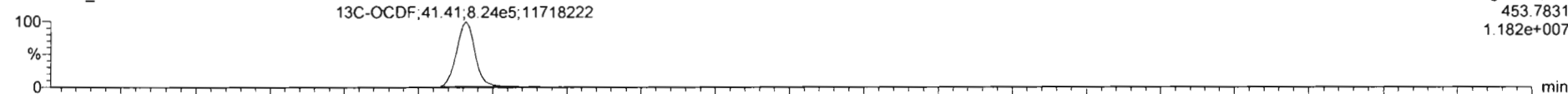


200306R2_6

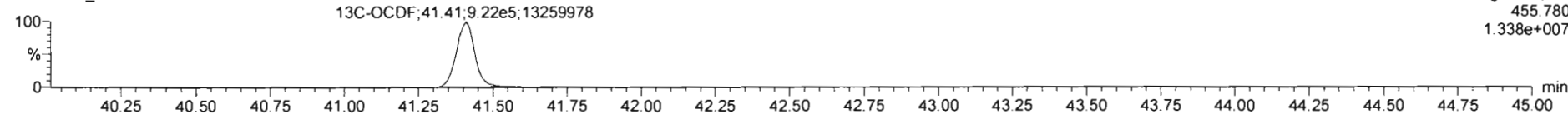


13C-OCDF

200306R2_6

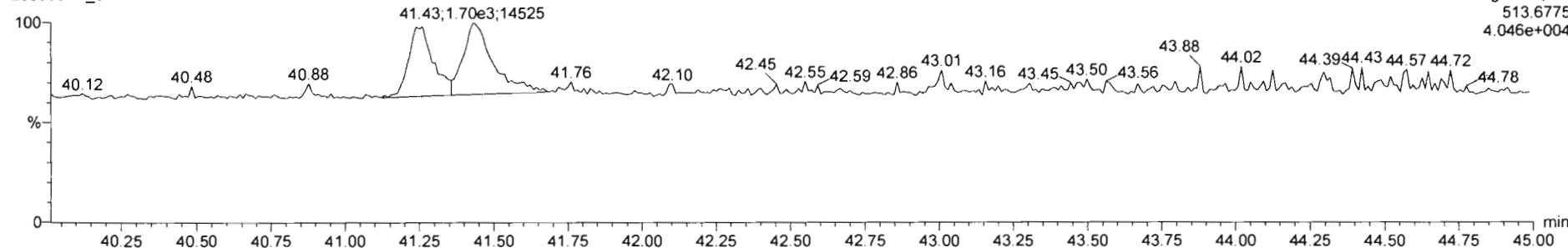


200306R2_6



DPE5

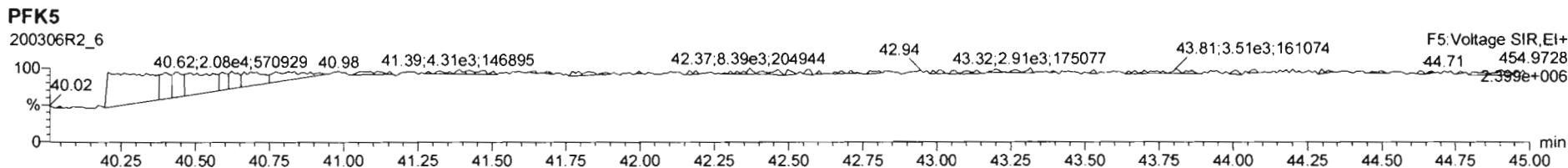
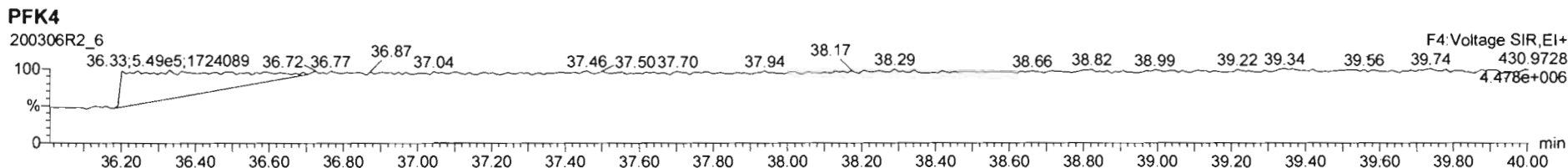
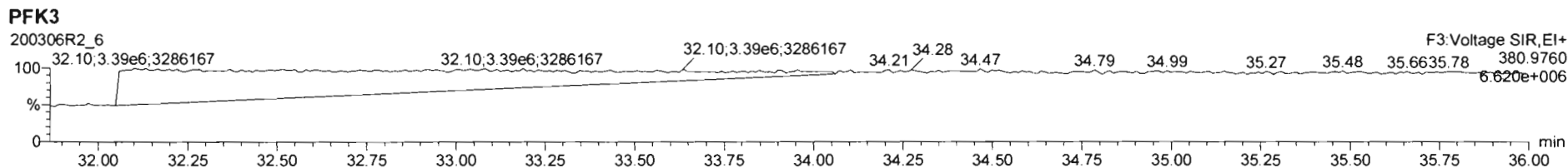
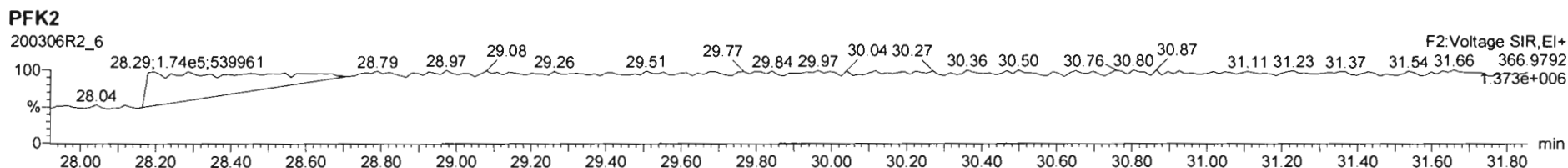
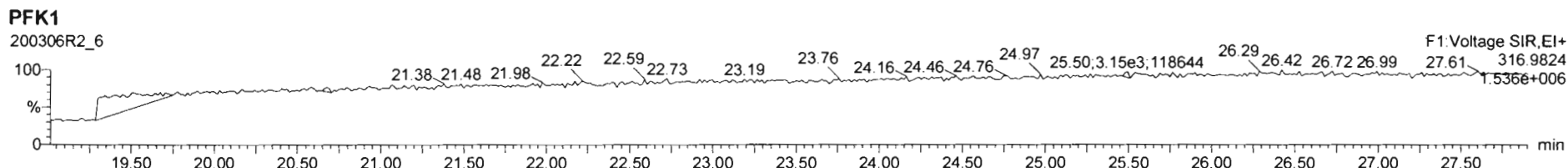
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Dataset: Untitled

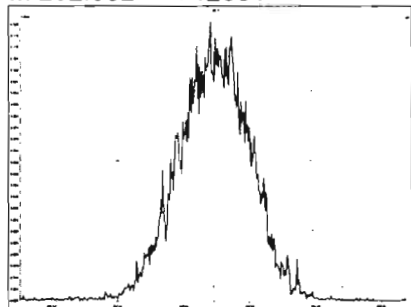
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

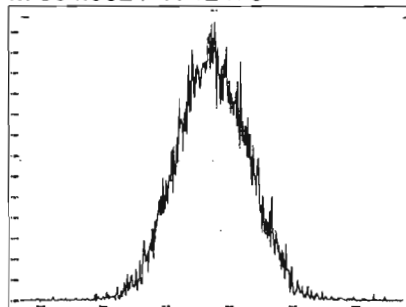


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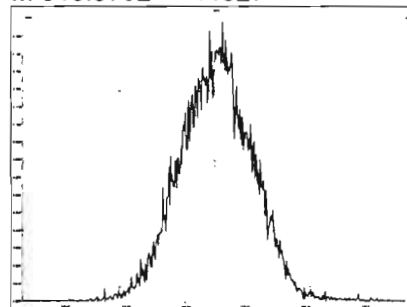
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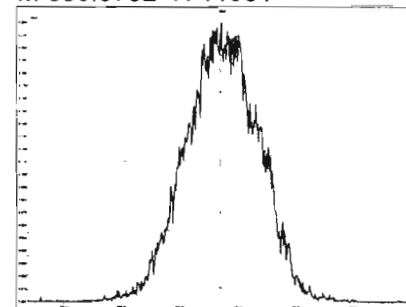
M 304.9824 R 12475



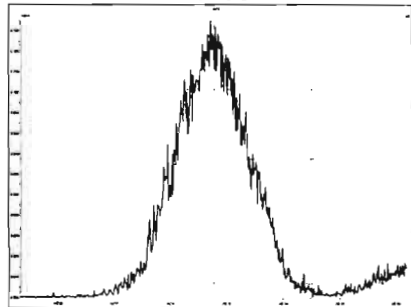
M 318.9792 R 11827



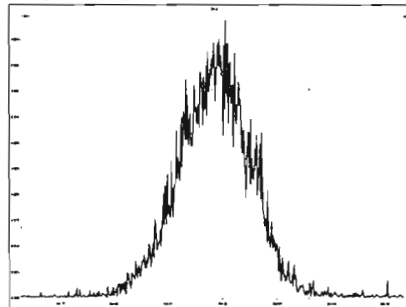
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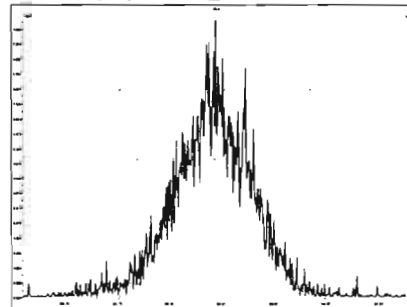
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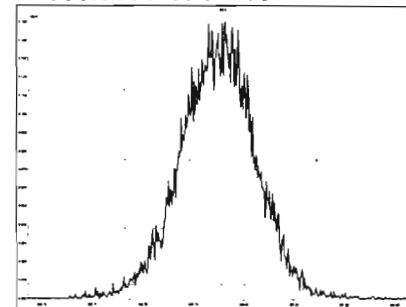
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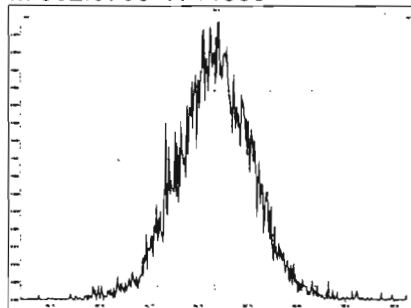
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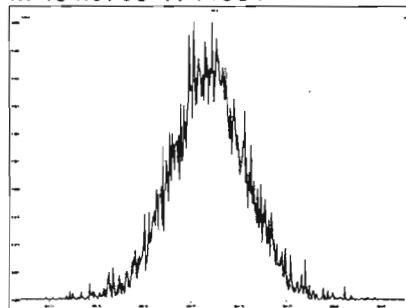
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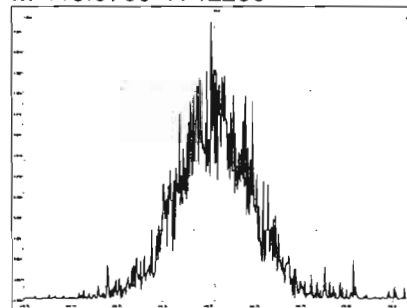
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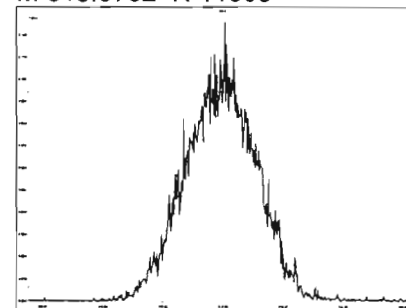
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M 416.9760 R 12269

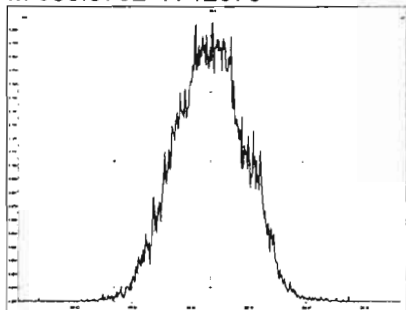


M 318.9792 R 11905

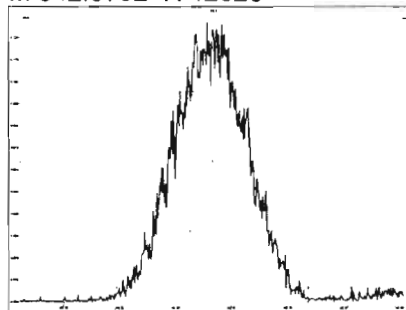


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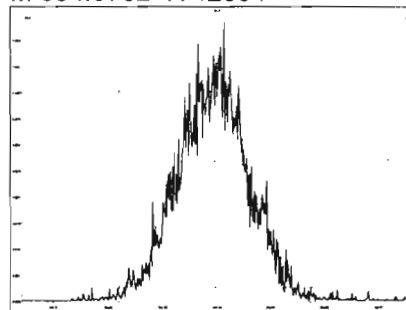
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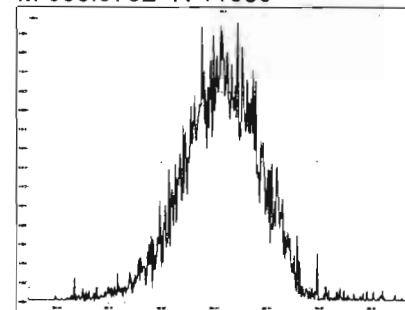
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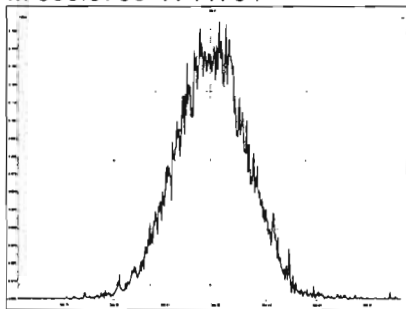
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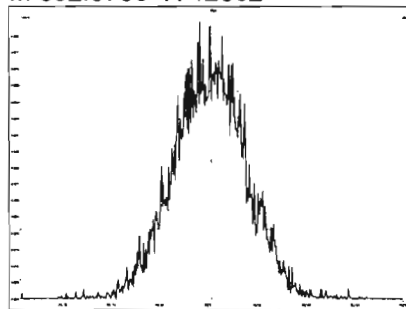
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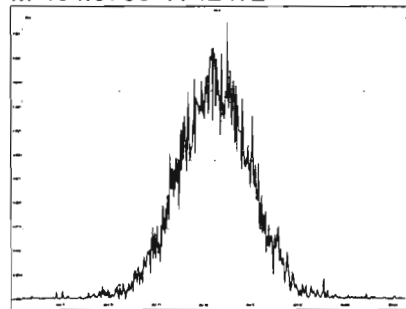
M 380.9760 R 11764



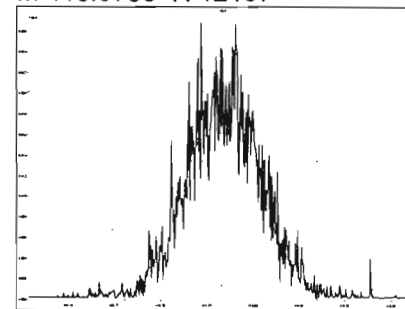
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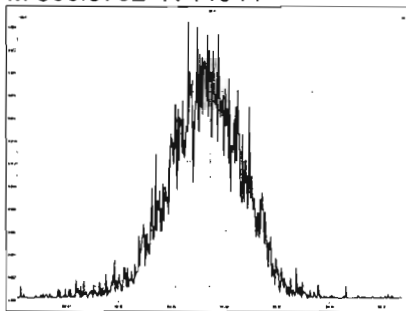
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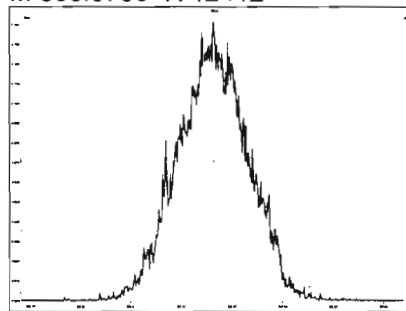
M 416.9760 R 12137



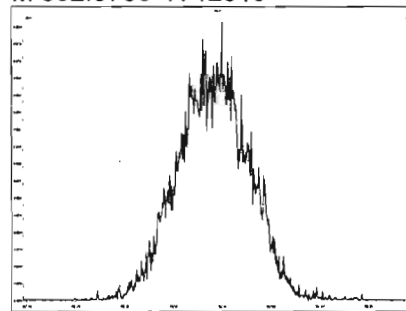
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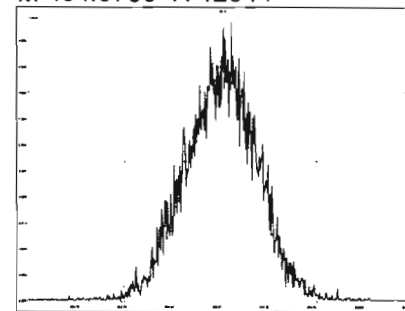
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M 392.9760 R 12319

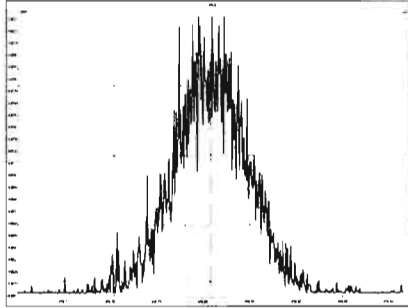


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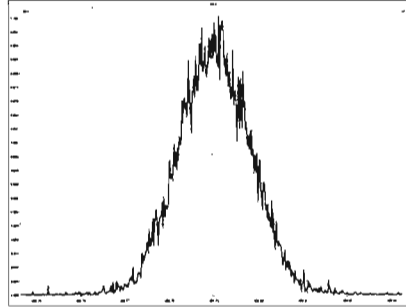


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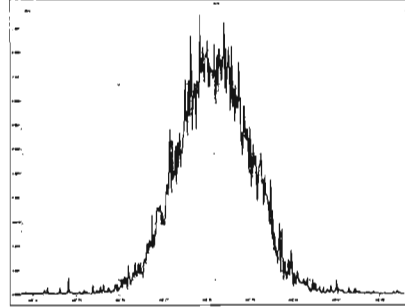
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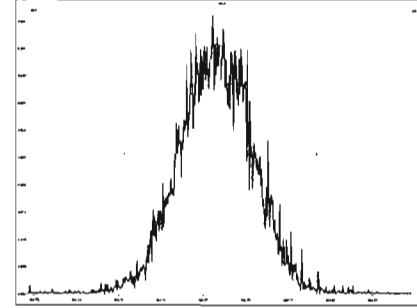
M 430.9728 R 11963



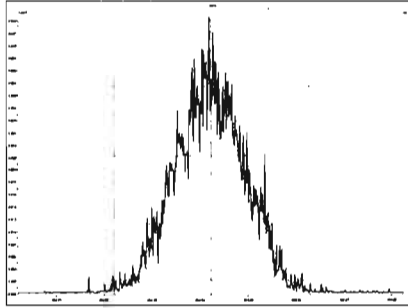
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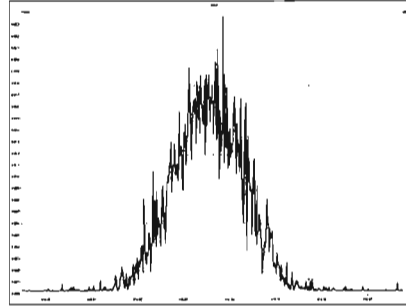
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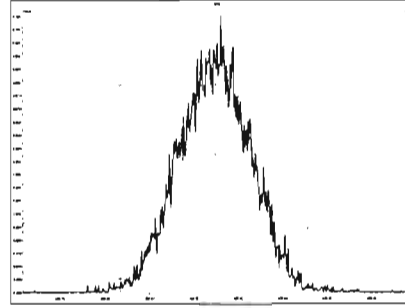
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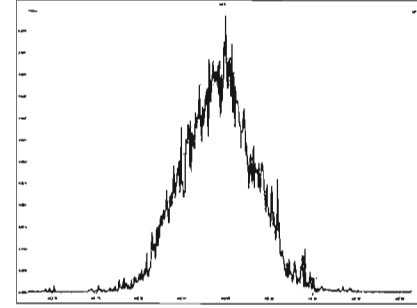
M 416.9760 R 13130



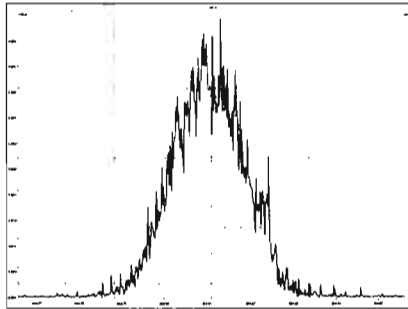
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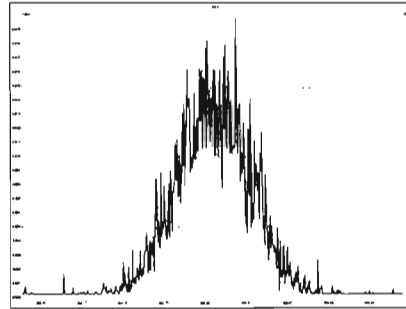
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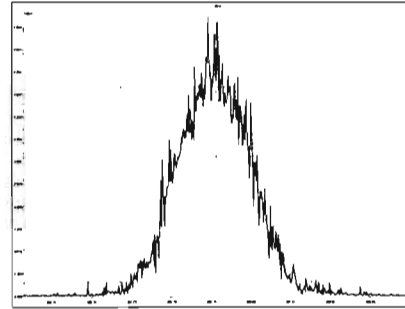
M 454.9728 R 12563



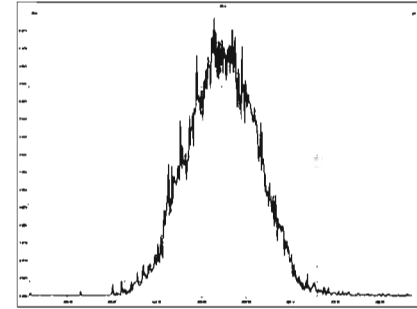
M 466.9728 R 13192



M 480.9696 R 12284

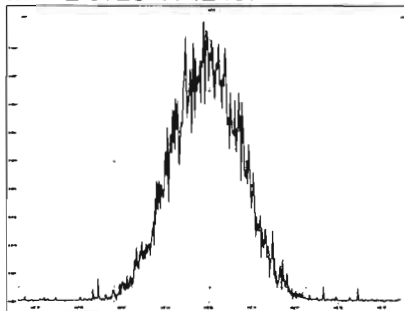


M 430.9728 R 12416

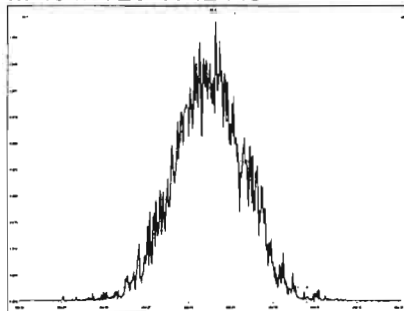


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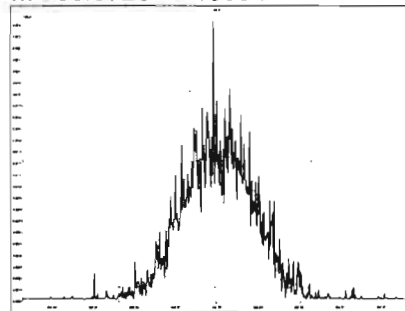
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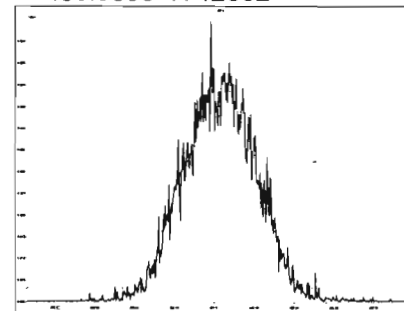
M 454.9728 R 12440



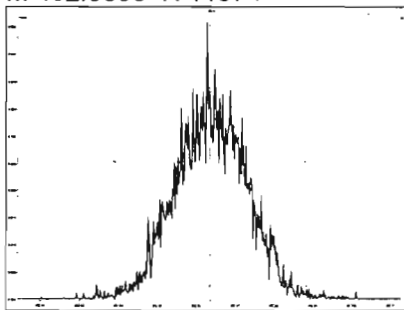
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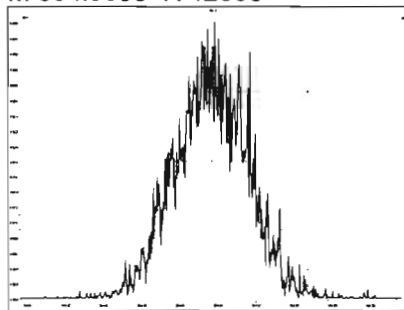
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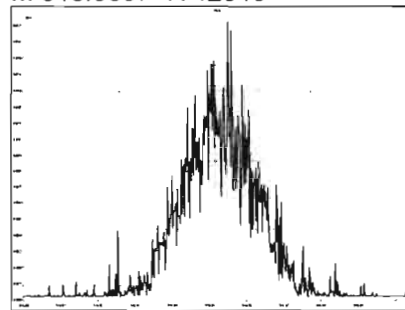
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M 504.9696 R 12658



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Dataset: U:\VG12.PRO\Results\200306R2\200306R2-8.qld

Last Altered: Monday, March 09, 2020 09:14:18 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:15:42 Pacific Daylight Time

GRB 03/09/2020

0703/09/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	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	9.28e4	0.77	NO	0.983	1.000	25.781	25.78	1.001	1.001	10.508	105	0.0462	10.5
2	2 1,2,3,7,8-PeCDD	3.71e5	0.63	NO	0.921	1.000	30.979	30.97	1.001	1.000	54.038	108	0.0655	54.0
3	3 1,2,3,4,7,8-HxCDD	3.32e5	1.24	NO	1.13	1.000	34.349	34.36	1.000	1.001	53.824	108	0.101	53.8
4	4 1,2,3,6,7,8-HxCDD	3.81e5	1.27	NO	0.984	1.000	34.445	34.46	1.000	1.000	57.230	114	0.0994	57.2
5	5 1,2,3,7,8,9-HxCDD	3.33e5	1.22	NO	0.967	1.000	34.722	34.72	1.000	1.000	56.617	113	0.117	56.6
6	6 1,2,3,4,6,7,8-HpCDD	2.52e5	1.04	NO	1.01	1.000	38.184	38.19	1.000	1.001	55.470	111	0.201	55.5
7	7 OCDD	4.61e5	0.91	NO	1.05	1.000	41.208	41.22	1.000	1.000	104.33	104	0.212	104
8	8 2,3,7,8-TCDF	1.19e5	0.80	NO	0.915	1.000	24.817	24.81	1.001	1.001	10.876	109	0.0390	10.9
9	9 1,2,3,7,8-PeCDF	5.58e5	1.55	NO	0.959	1.000	29.635	29.63	1.001	1.001	53.583	107	0.0901	53.6
10	10 2,3,4,7,8-PeCDF	6.50e5	1.53	NO	1.00	1.000	30.667	30.65	1.001	1.000	60.478	121	0.0822	60.5
11	11 1,2,3,4,7,8-HxCDF	4.39e5	1.22	NO	1.04	1.000	33.486	33.50	1.000	1.000	56.277	113	0.116	56.3
12	12 1,2,3,6,7,8-HxCDF	4.83e5	1.22	NO	1.01	1.000	33.614	33.63	1.000	1.001	58.225	116	0.120	58.2
13	13 2,3,4,6,7,8-HxCDF	4.58e5	1.23	NO	1.09	1.000	34.213	34.19	1.001	1.000	53.808	108	0.121	53.8
14	14 1,2,3,7,8,9-HxCDF	3.65e5	1.23	NO	1.03	1.000	35.052	35.06	1.000	1.000	54.692	109	0.173	54.7
15	15 1,2,3,4,6,7,8-HpCDF	3.38e5	1.03	NO	1.05	1.000	36.793	36.78	1.001	1.001	55.962	112	0.171	56.0
16	16 1,2,3,4,7,8,9-HpCDF	2.60e5	1.01	NO	1.21	1.000	38.801	38.81	1.000	1.000	55.091	110	0.218	55.1
17	17 OCDF	5.30e5	0.88	NO	0.947	1.000	41.389	41.40	1.000	1.000	107.93	108	0.154	108
18	18 13C-2,3,7,8-TCDD	8.98e5	0.78	NO	1.18	1.000	25.781	25.75	1.029	1.027	94.504	94.5	0.106	
19	19 13C-1,2,3,7,8-PeCDD	7.45e5	0.64	NO	0.864	1.000	30.974	30.96	1.236	1.235	107.38	107	0.187	
20	20 13C-1,2,3,4,7,8-HxCDD	5.45e5	1.26	NO	0.754	1.000	34.341	34.34	1.014	1.014	85.136	85.1	0.201	
21	21 13C-1,2,3,6,7,8-HxCDD	6.77e5	1.26	NO	0.925	1.000	34.449	34.45	1.017	1.017	86.121	86.1	0.164	
22	22 13C-1,2,3,7,8,9-HxCDD	6.09e5	1.27	NO	0.829	1.000	34.710	34.71	1.025	1.025	86.383	86.4	0.183	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.51e5	1.04	NO	0.598	1.000	38.158	38.17	1.127	1.127	88.689	88.7	0.205	
24	24 13C-OCDD	8.40e5	0.87	NO	0.571	1.000	41.298	41.21	1.219	1.217	173.12	86.6	0.205	
25	25 13C-2,3,7,8-TCDF	1.19e6	0.78	NO	1.09	1.000	24.801	24.79	0.990	0.989	86.829	86.8	0.143	
26	26 13C-1,2,3,7,8-PeCDF	1.09e6	1.58	NO	0.876	1.000	29.643	29.61	1.183	1.182	98.396	98.4	0.243	
27	27 13C-2,3,4,7,8-PeCDF	1.07e6	1.60	NO	0.844	1.000	30.655	30.64	1.223	1.222	100.81	101	0.253	
28	28 13C-1,2,3,4,7,8-HxCDF	7.52e5	0.52	NO	1.00	1.000	33.491	33.49	0.989	0.989	88.441	88.4	0.228	
29	29 13C-1,2,3,6,7,8-HxCDF	8.18e5	0.53	NO	1.12	1.000	33.599	33.60	0.992	0.992	86.171	86.2	0.204	
30	30 13C-2,3,4,6,7,8-HxCDF	7.80e5	0.52	NO	1.04	1.000	34.178	34.18	1.009	1.009	88.698	88.7	0.220	
31	31 13C-1,2,3,7,8,9-HxCDF	6.50e5	0.50	NO	0.873	1.000	35.049	35.05	1.035	1.035	87.589	87.6	0.261	

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-8.qld

Last Altered: Monday, March 09, 2020 09:14:18 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:15:42 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# 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	5.76e5	0.45	NO	0.771	1.000	36.759	36.76	1.085	1.085	87.916	87.9	0.211	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.91e5	0.44	NO	0.519	1.000	38.839	38.80	1.147	1.146	88.538	88.5	0.314	
34	34 13C-OCDF	1.04e6	0.90	NO	0.696	1.000	41.477	41.39	1.225	1.222	175.32	87.7	0.183	
35	35 37Cl-2,3,7,8-TCDD	9.59e4			1.17	1.000	25.791	25.78	1.029	1.029	10.173	102	0.0234	
36	36 13C-1,2,3,4-TCDD	8.02e5	0.79	NO	1.00	1.000	25.050	25.06	1.000	1.000	100.00	100	0.126	
37	37 13C-1,2,3,4-TCDF	1.26e6	0.80	NO	1.00	1.000	23.190	23.19	1.000	1.000	100.00	100	0.156	
38	38 13C-1,2,3,4,6,9-HxCDF	8.50e5	0.51	NO	1.00	1.000	33.880	33.87	1.000	1.000	100.00	100	0.228	

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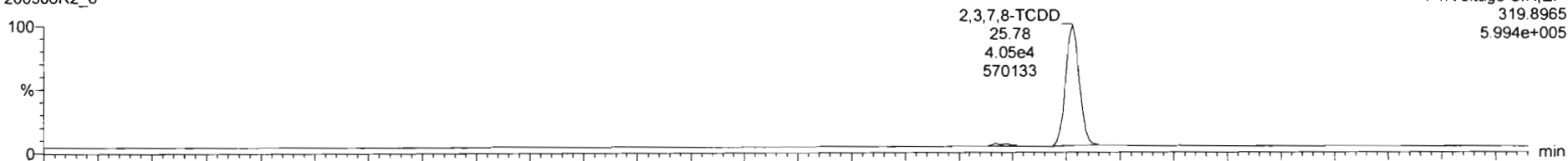
Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time
Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

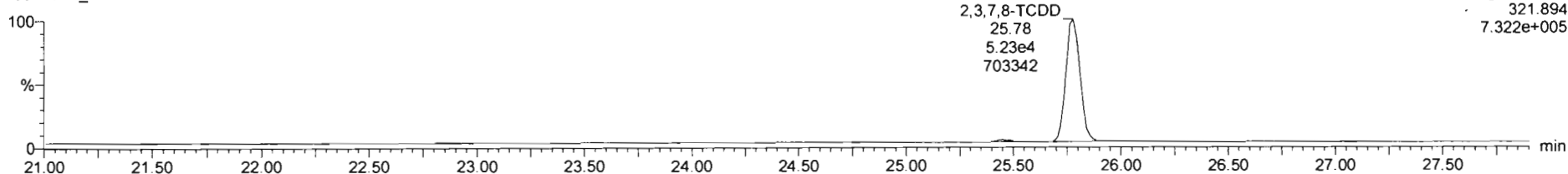
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2,3,7,8-TCDD

200306R2_8

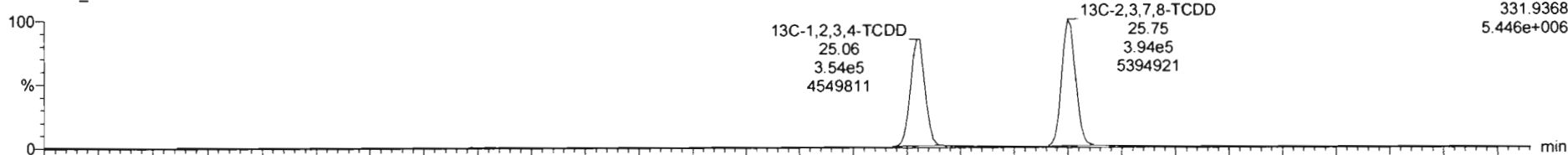


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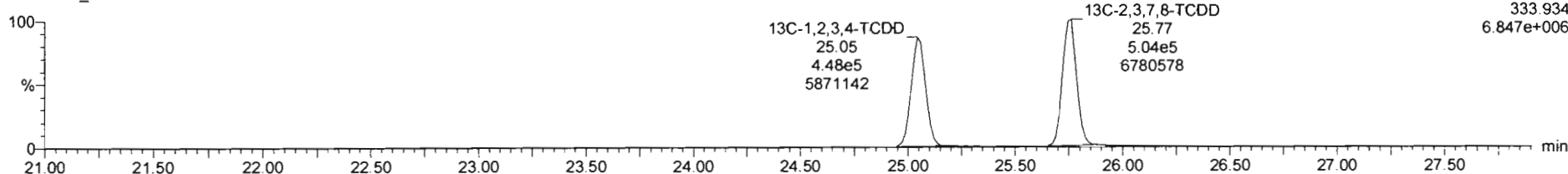


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200306R2_8



200306R2_8



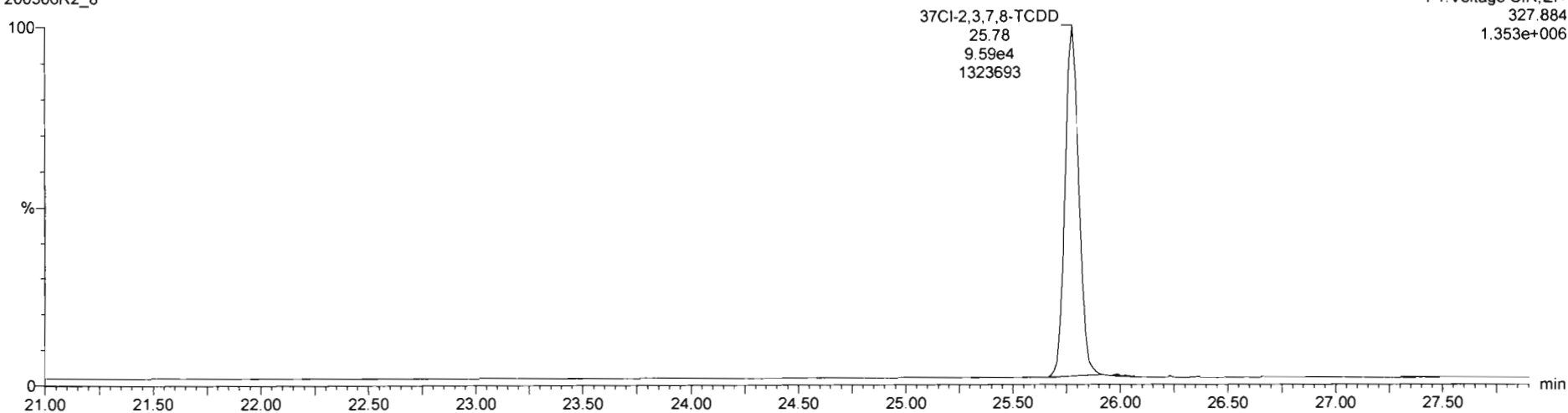
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Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

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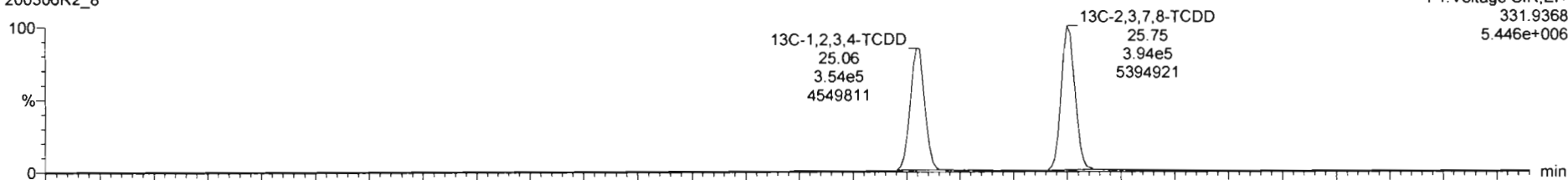
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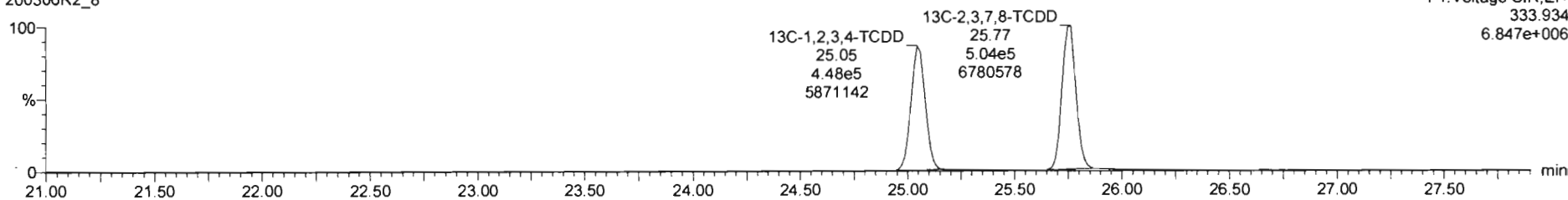


13C-1,2,3,4-TCDD

200306R2_8



200306R2_8



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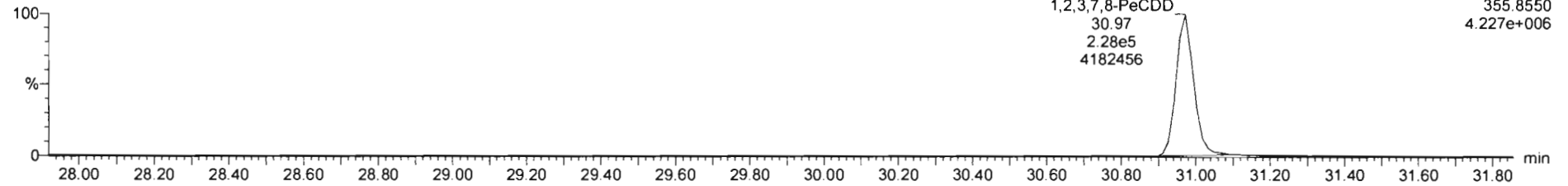
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1,2,3,7,8-PeCDD

200306R2_8

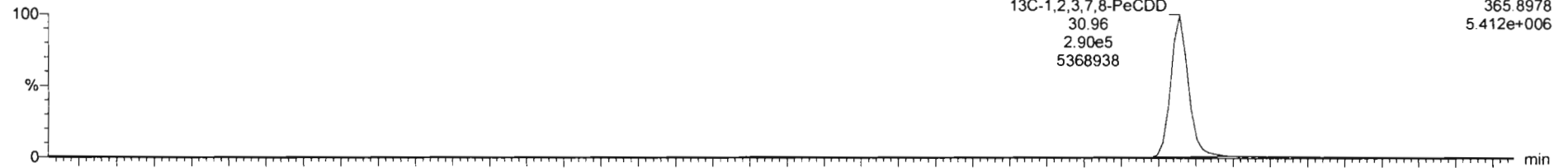


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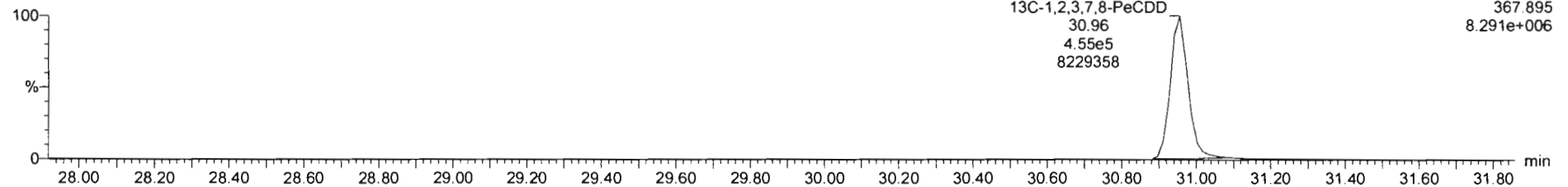


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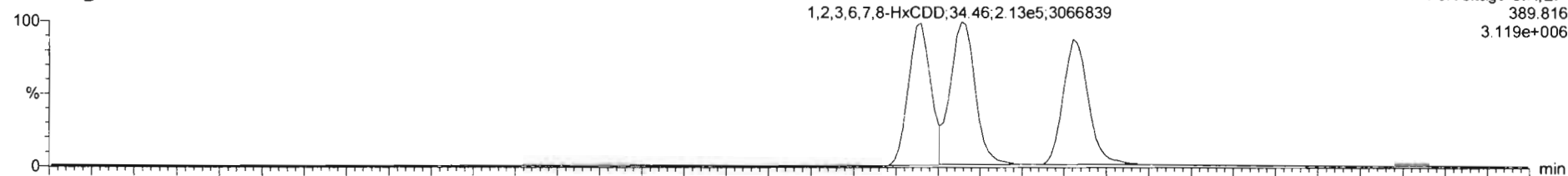
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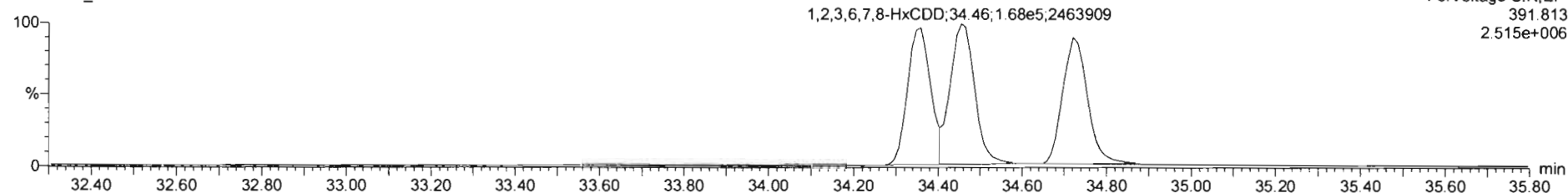
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1,2,3,4,7,8-HxCDD

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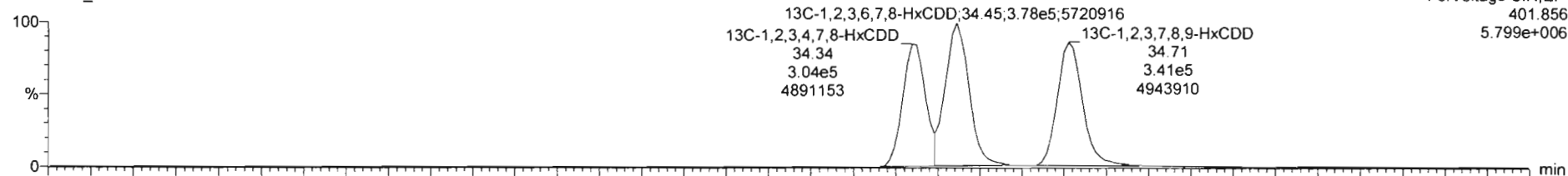


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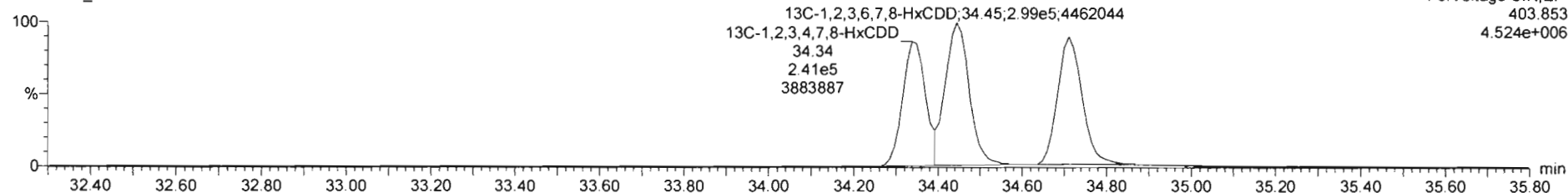


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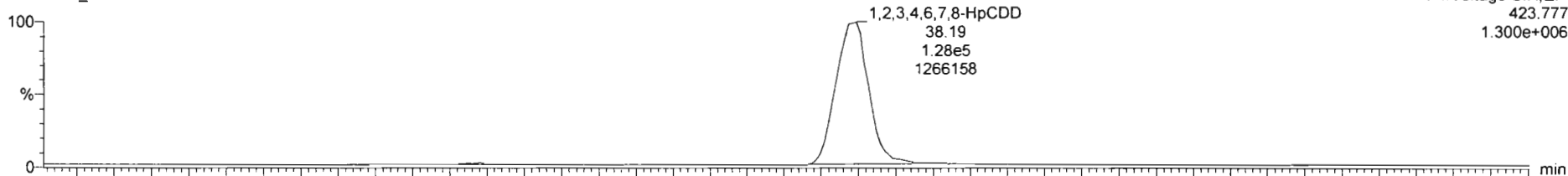
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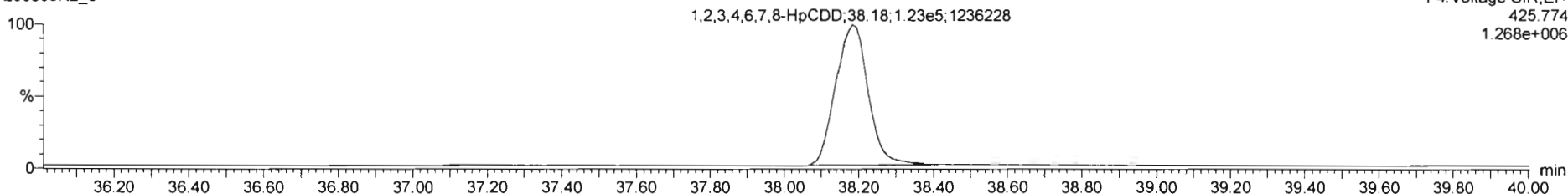
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1,2,3,4,6,7,8-HpCDD

200306R2_8

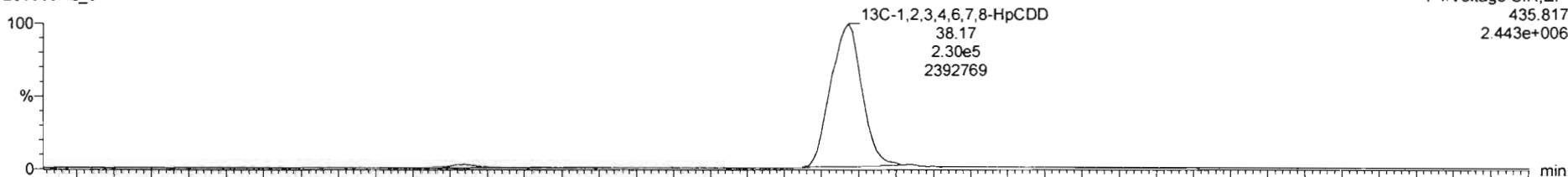


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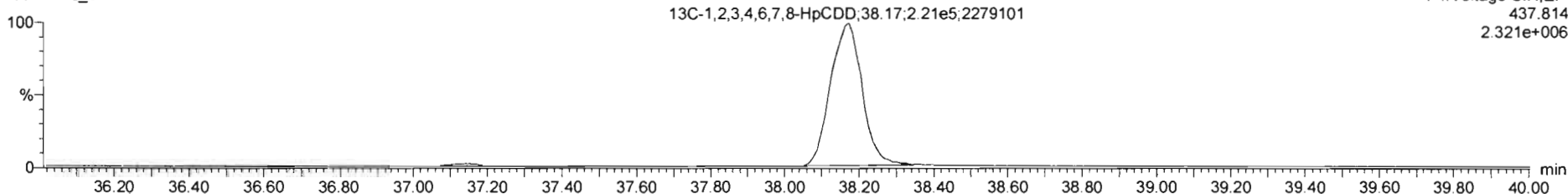


13C-1,2,3,4,6,7,8-HpCDD

200306R2_8



200306R2_8



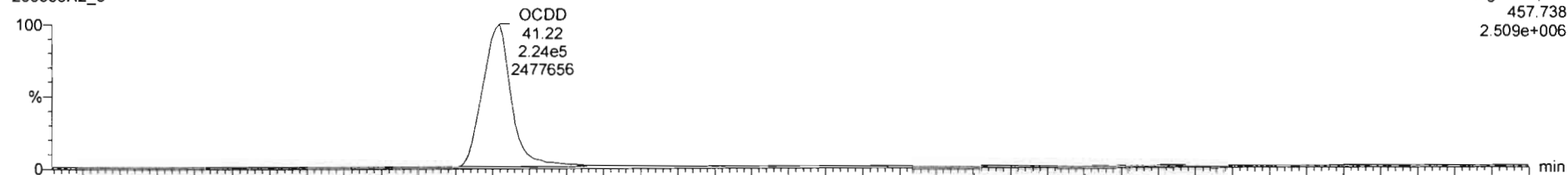
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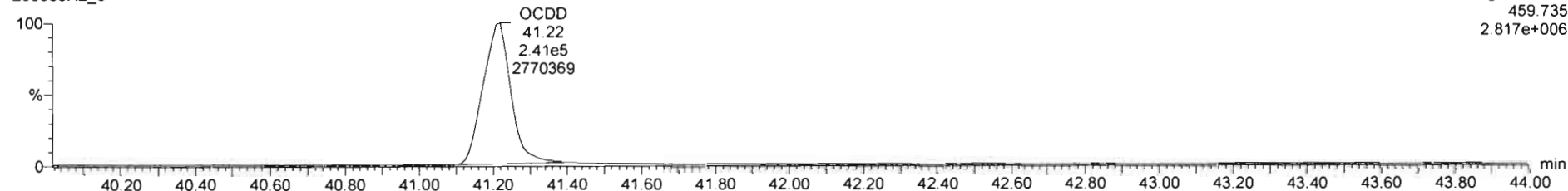
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OCDD

200306R2_8

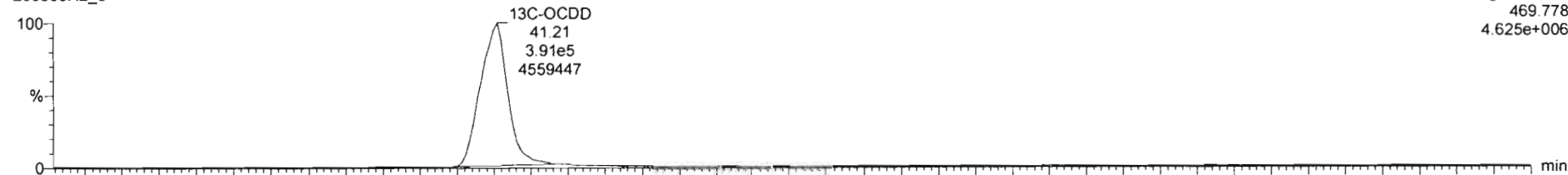


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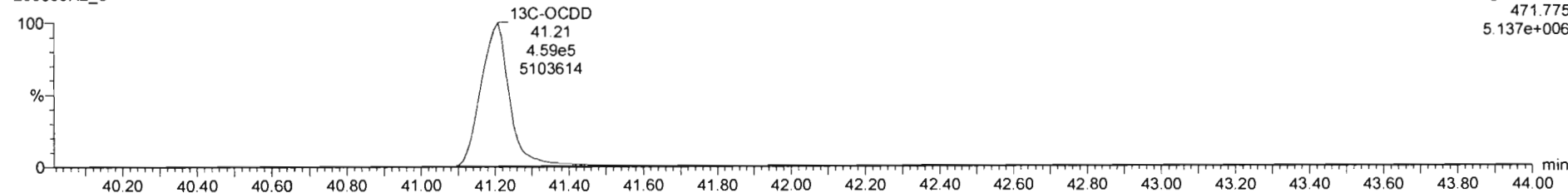


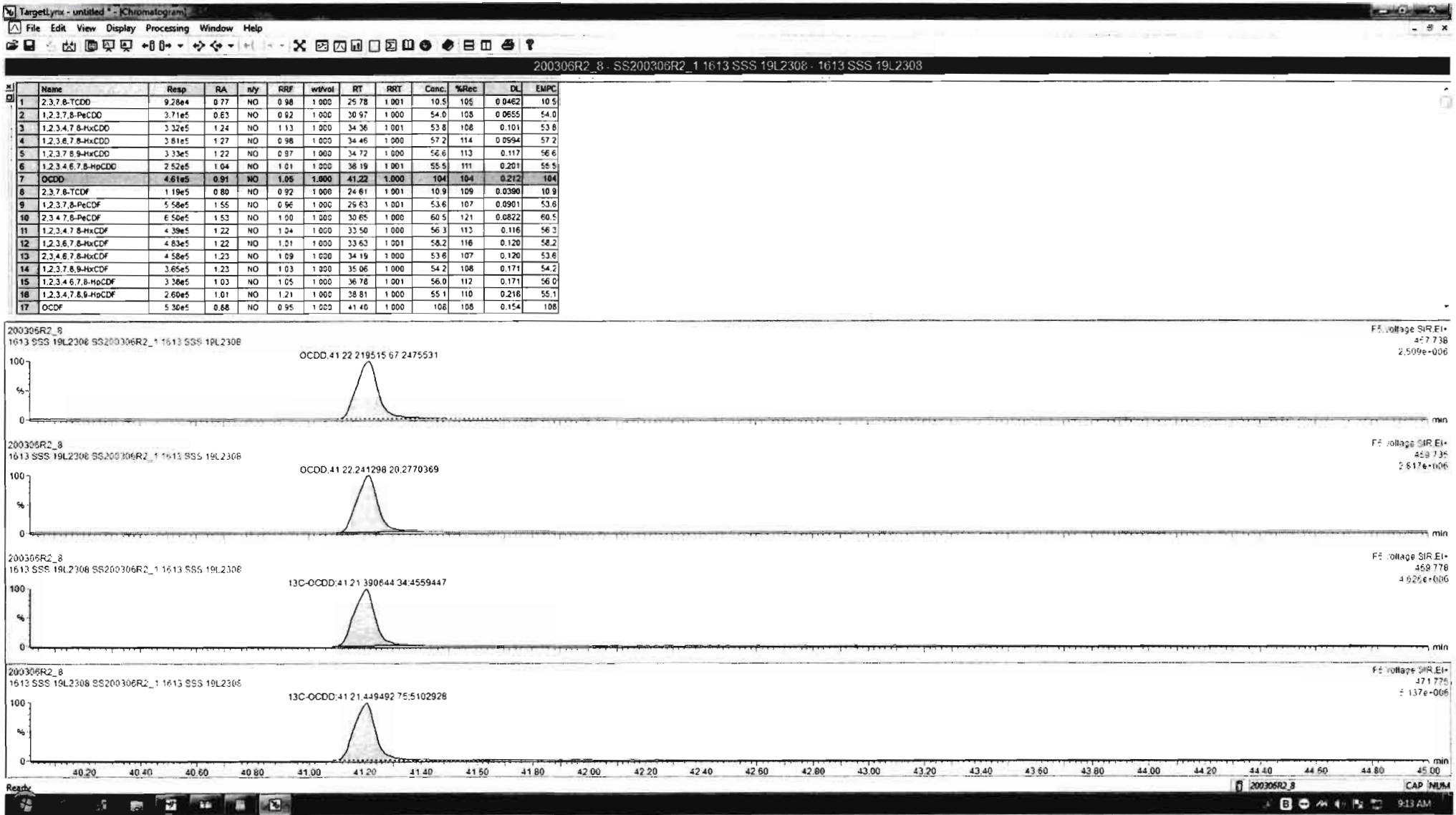
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200306R2_8



200306R2_8





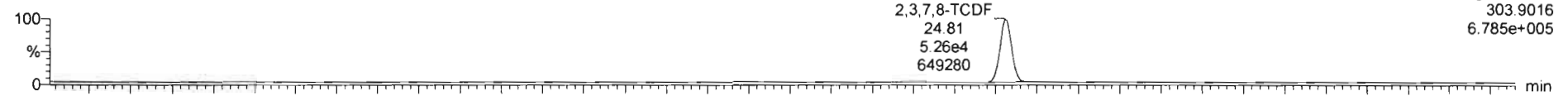
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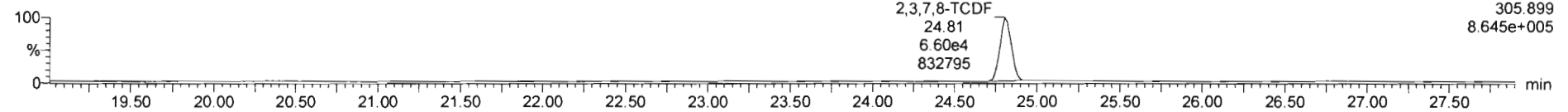
2,3,7,8-TCDF

200306R2_8



F1: Voltage SIR, EI+
303.9016
6.785e+005

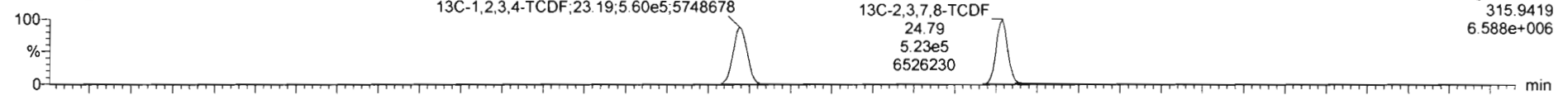
200306R2_8



F1: Voltage SIR, EI+
305.899
8.645e+005

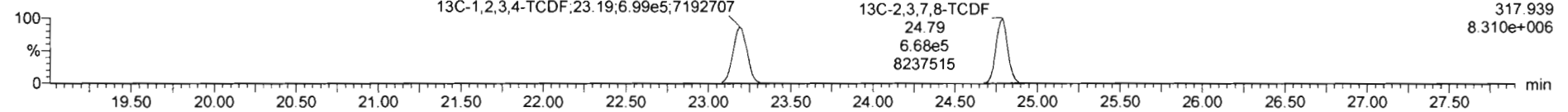
13C-2,3,7,8-TCDF

200306R2_8



F1: Voltage SIR, EI+
315.9419
6.588e+006

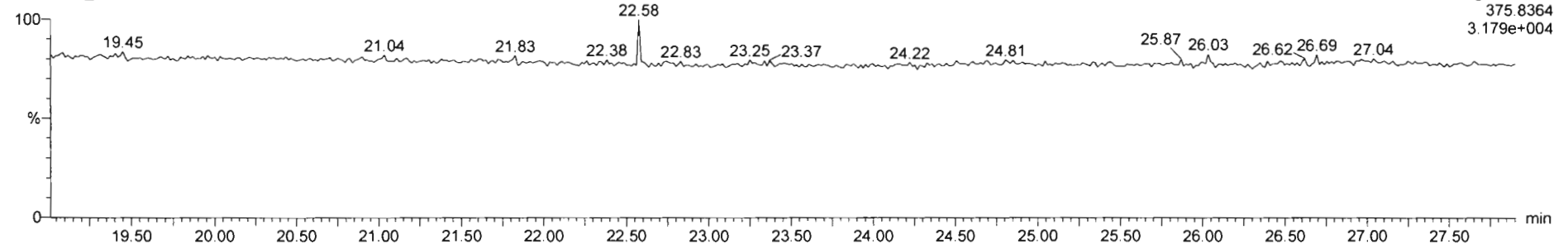
200306R2_8



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317.939
8.310e+006

DPE1

200306R2_8



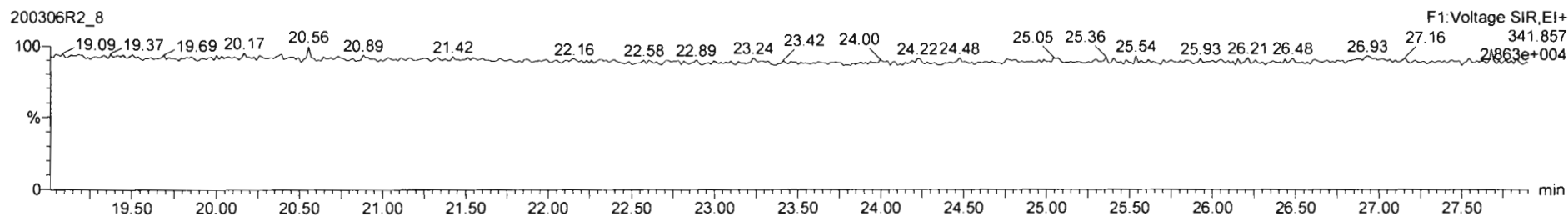
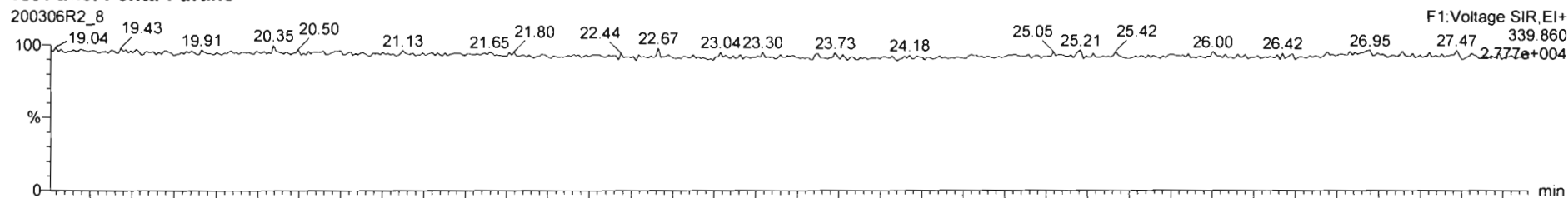
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375.8364
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Dataset: Untitled

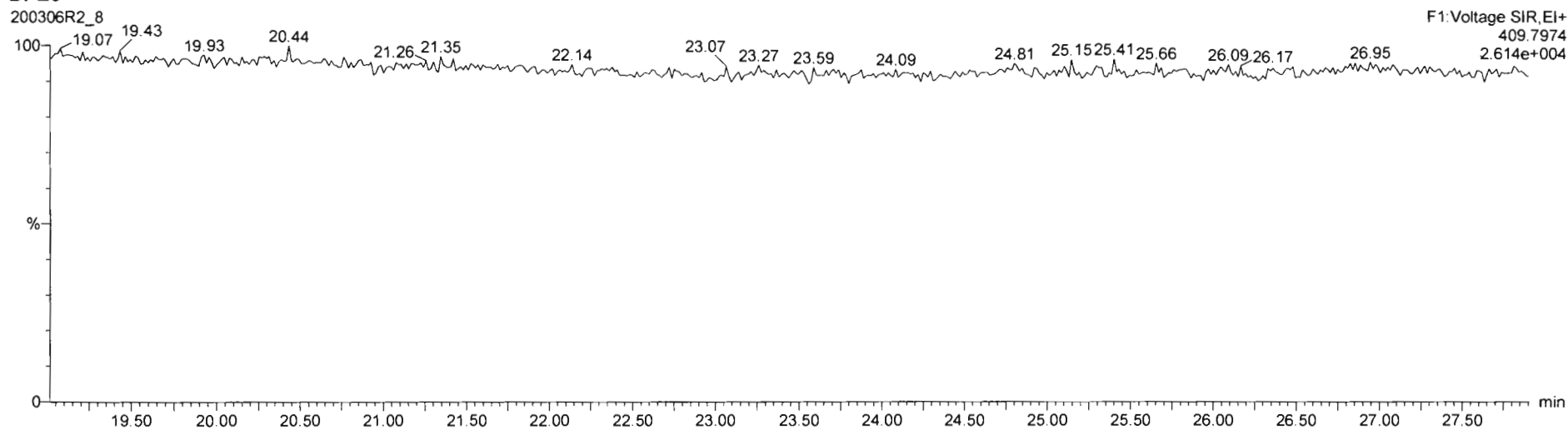
Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time
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Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1st Func. Penta-Furans



DPE6



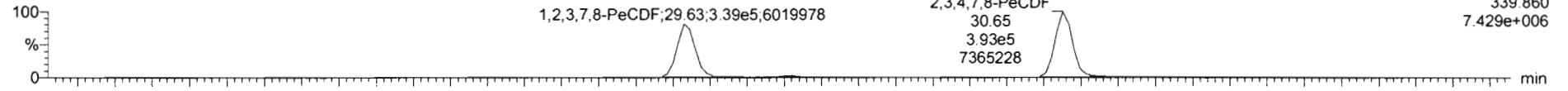
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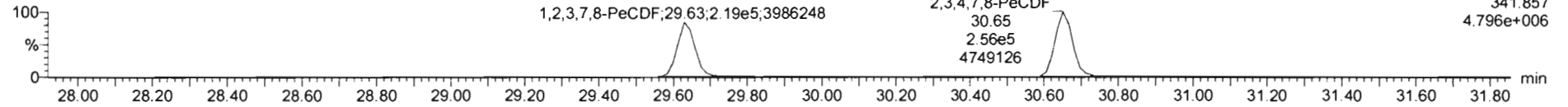
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1,2,3,7,8-PeCDF

200306R2_8

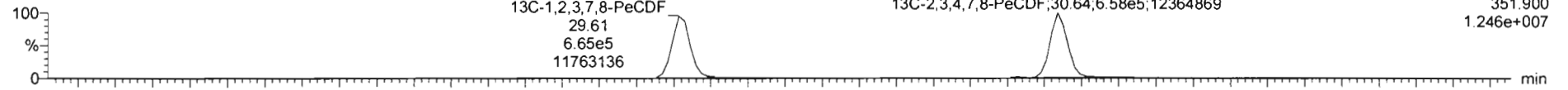


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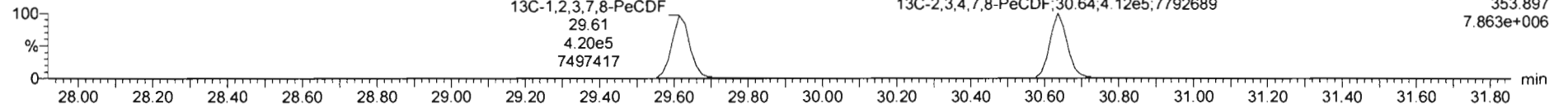


13C-1,2,3,7,8-PeCDF

200306R2_8

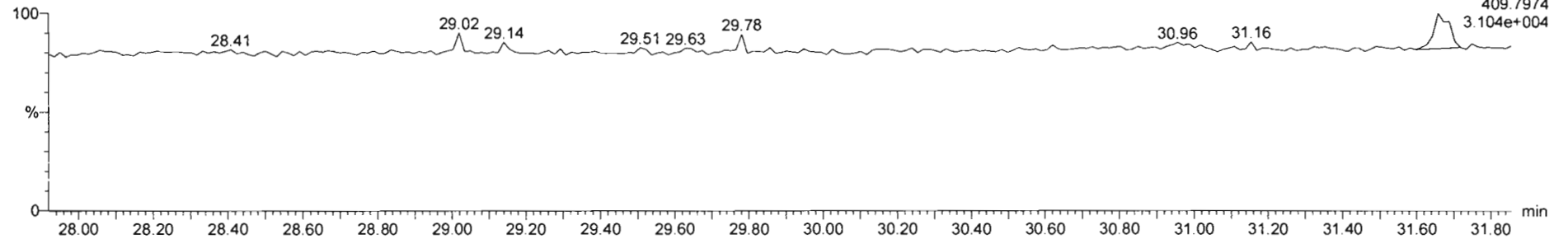


200306R2_8



DPE2

200306R2_8



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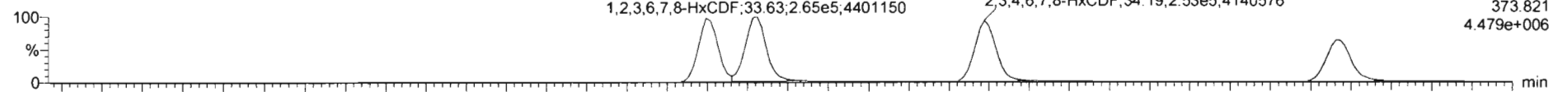
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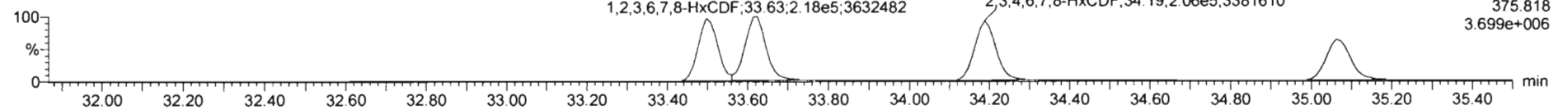
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1,2,3,4,7,8-HxCDF

200306R2_8

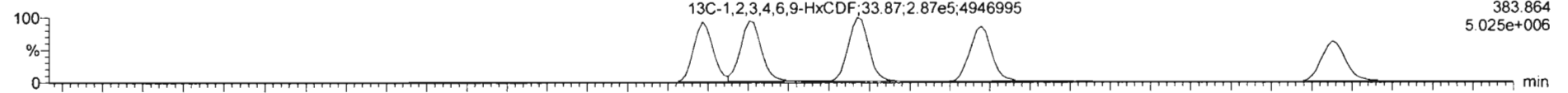


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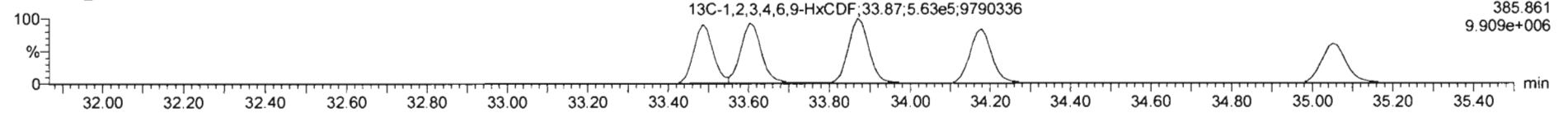


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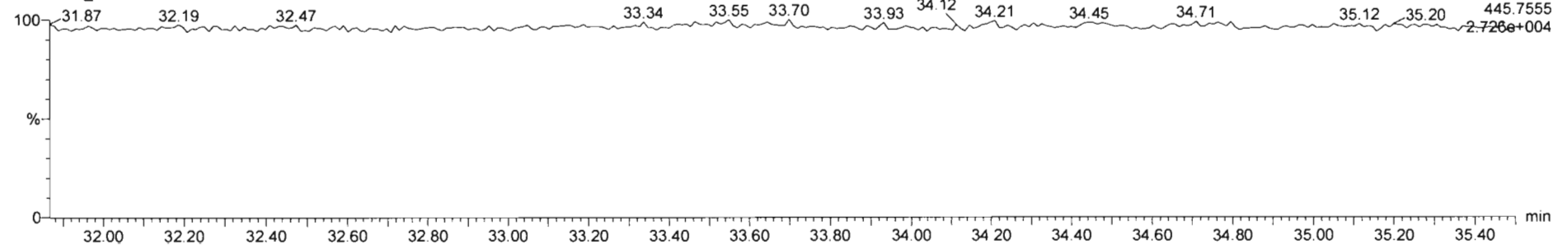


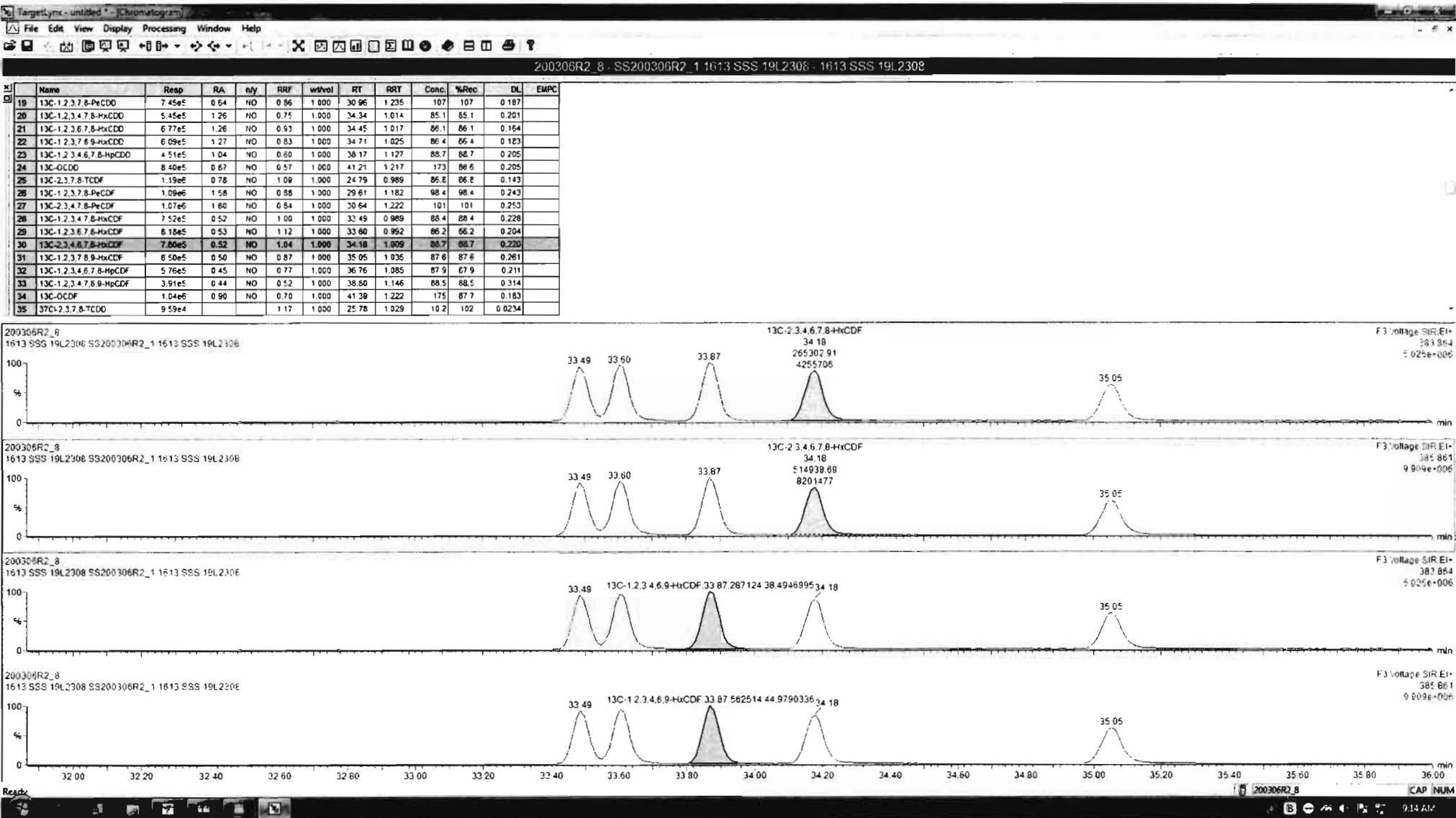
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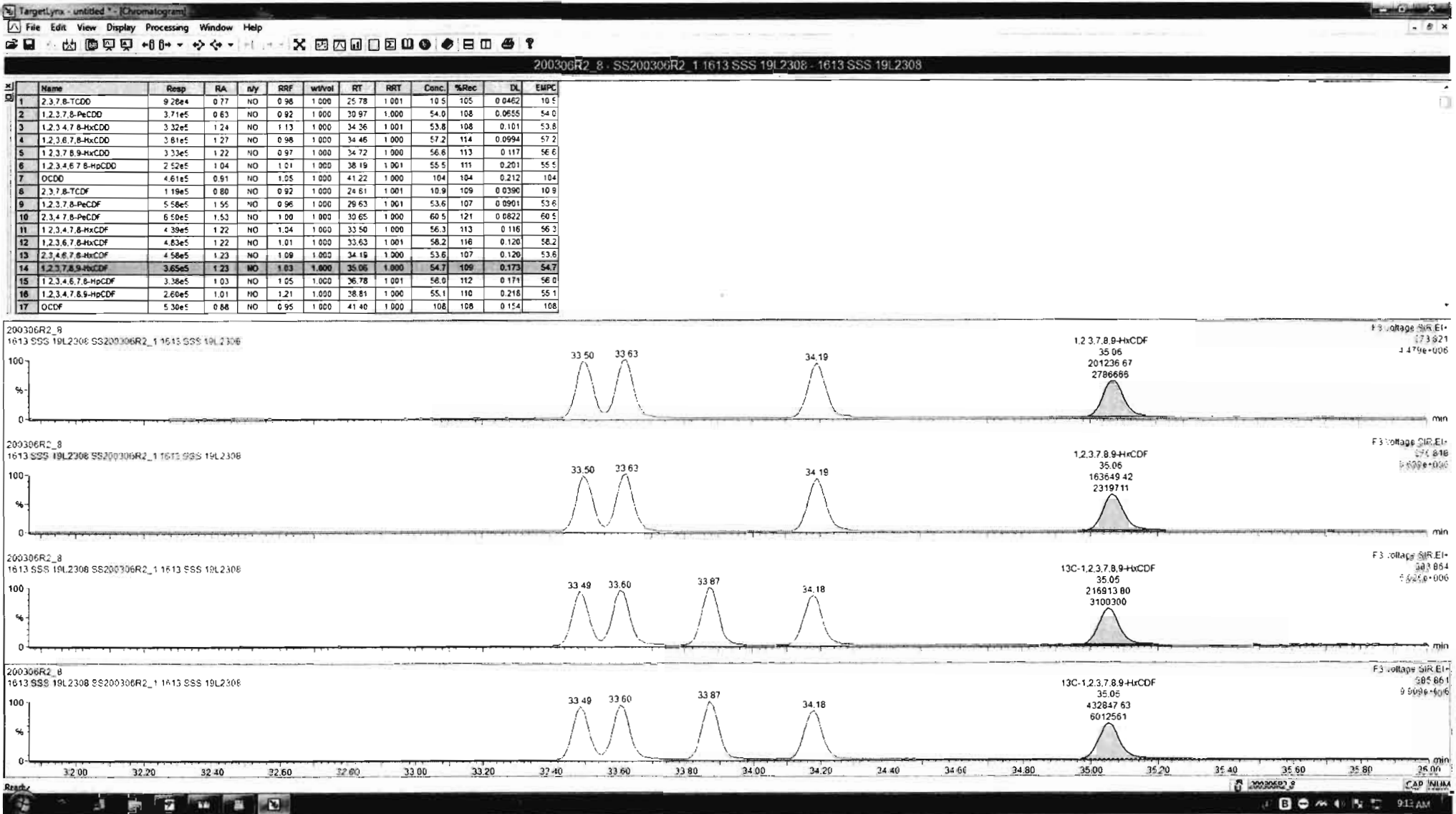


DPE3

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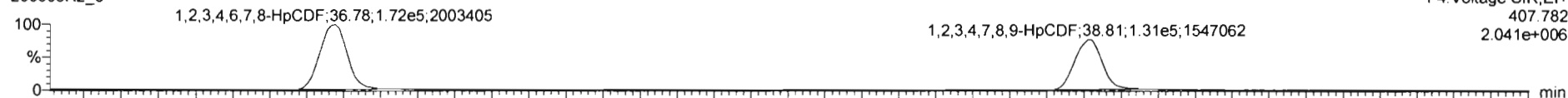
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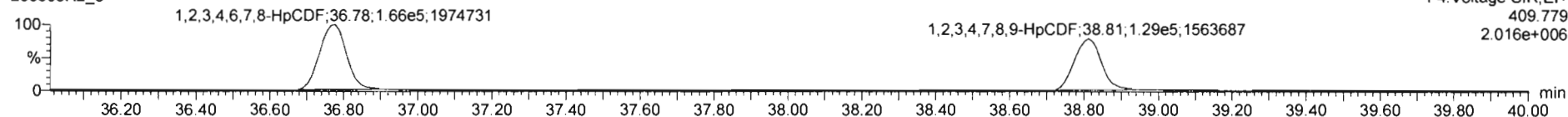
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1,2,3,4,6,7,8-HpCDF

200306R2_8

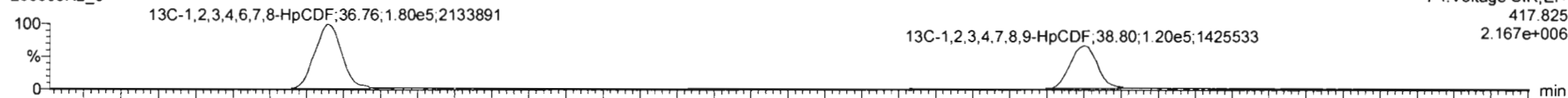


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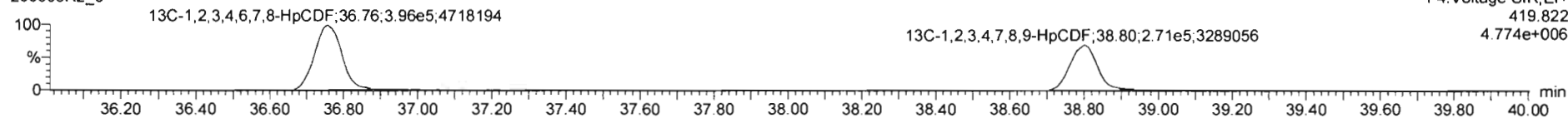


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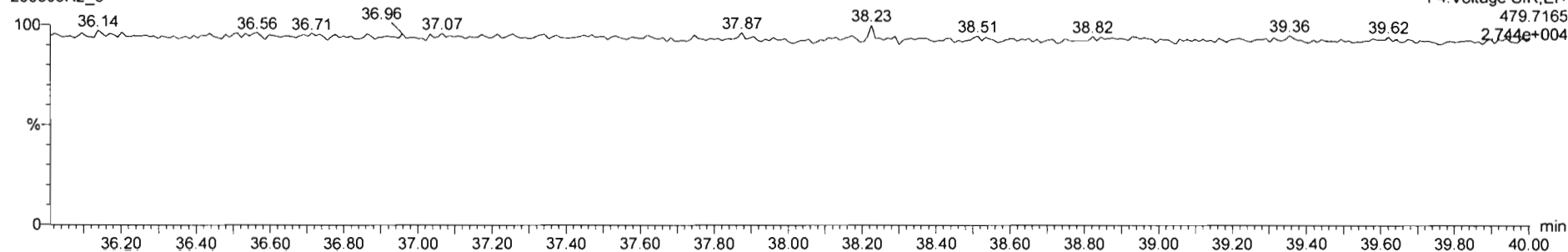


200306R2_8



DPE4

200306R2_8



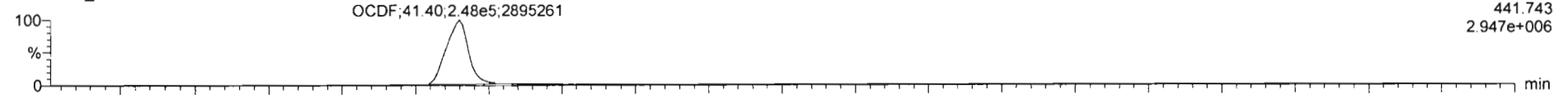
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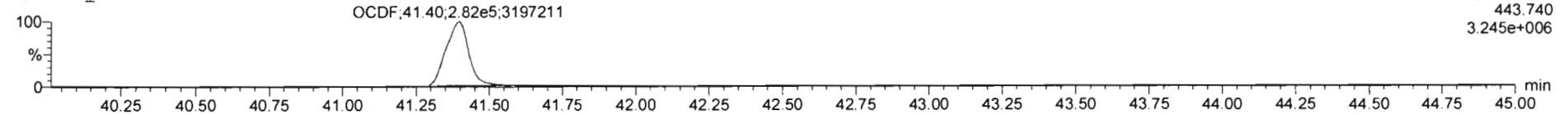
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OCDF

200306R2_8

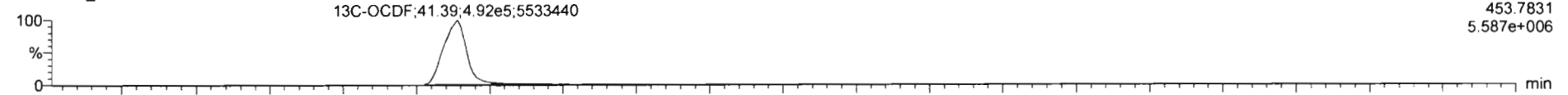


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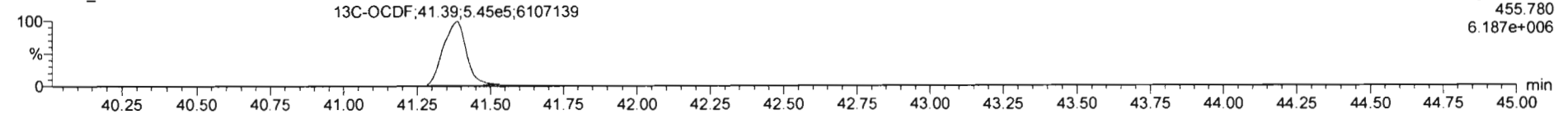


13C-OCDF

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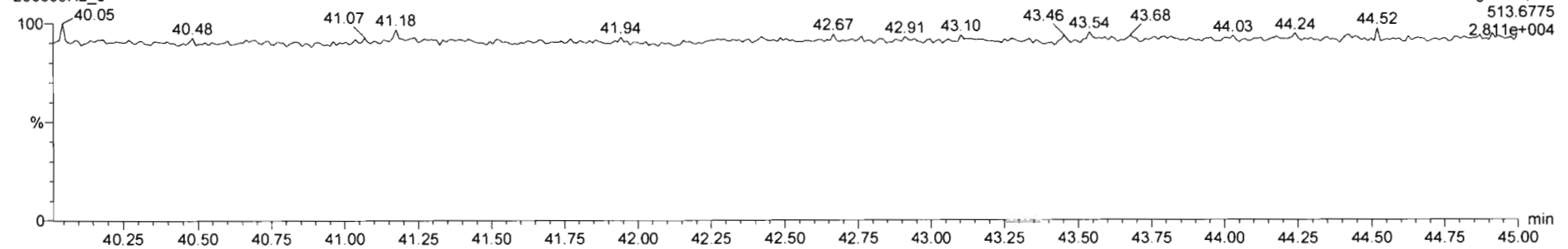


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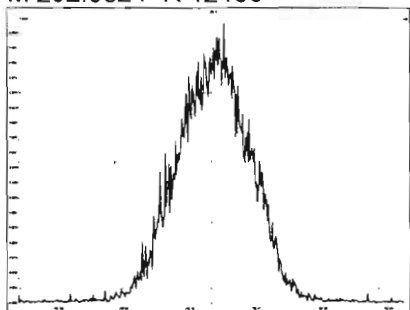
DPE5

200306R2_8

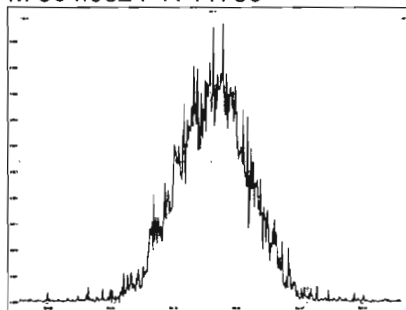


Printed: Saturday, March 07, 2020 02:06:12 Pacific Standard Time

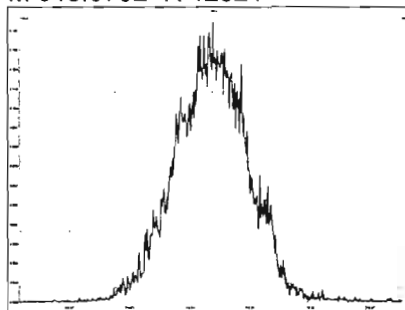
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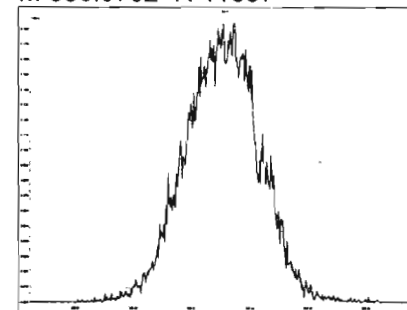
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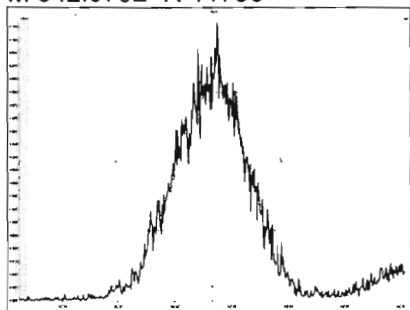
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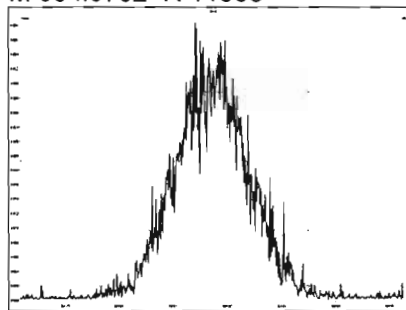
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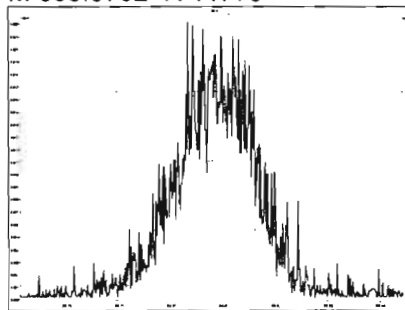
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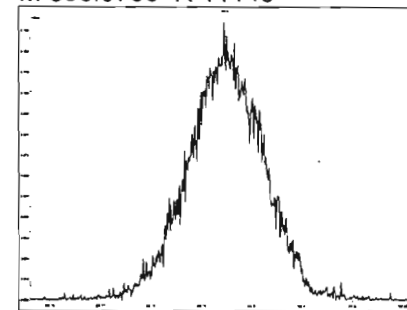
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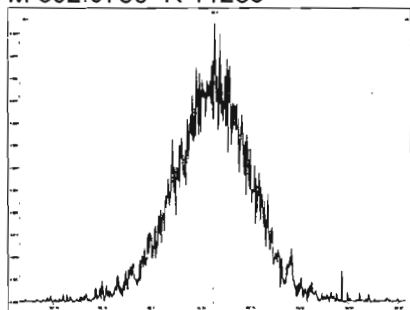
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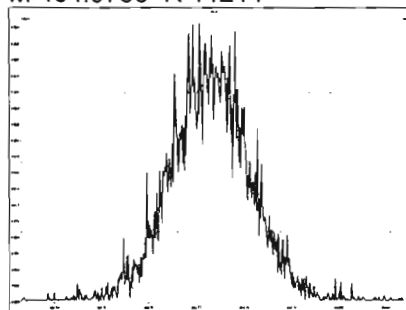
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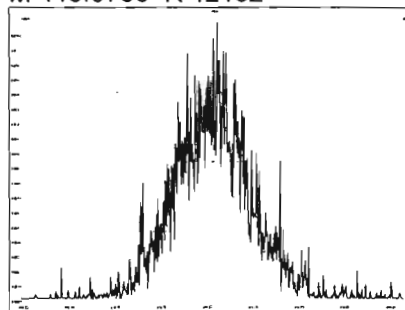
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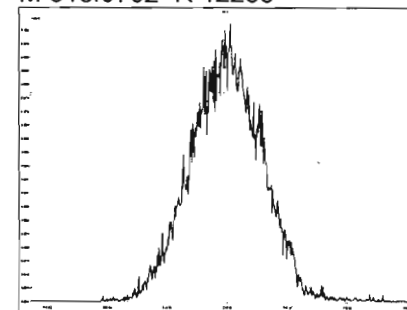
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M 416.9760 R 12132

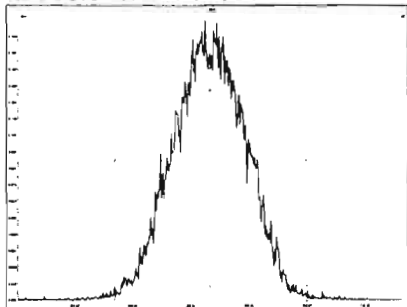


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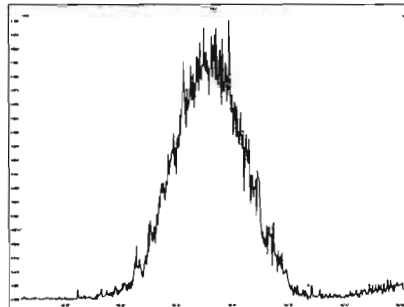


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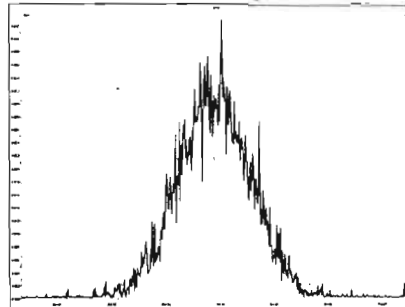
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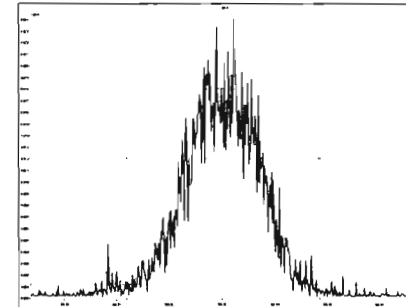
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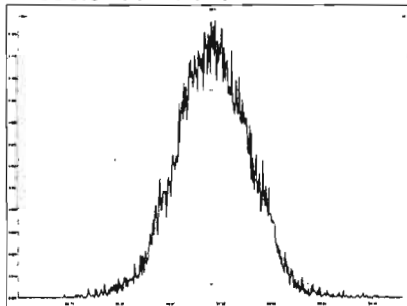
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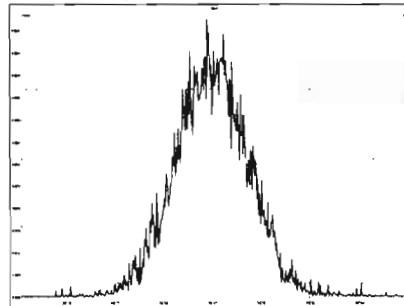
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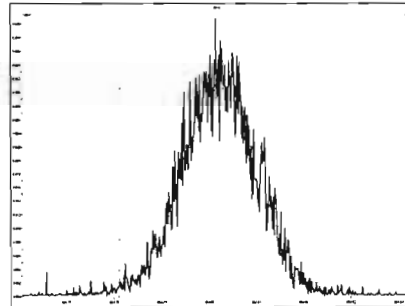
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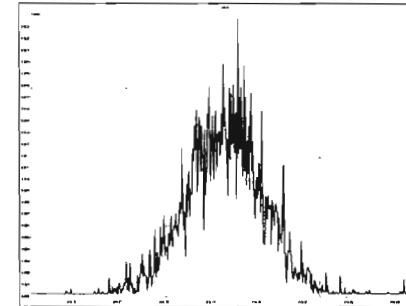
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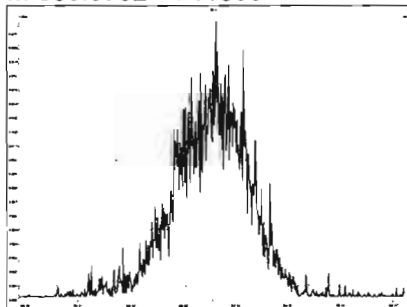
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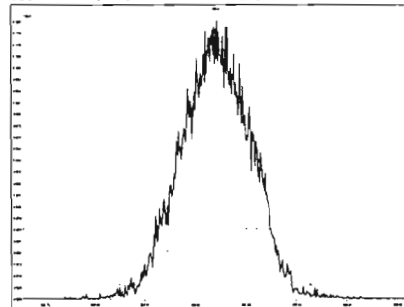
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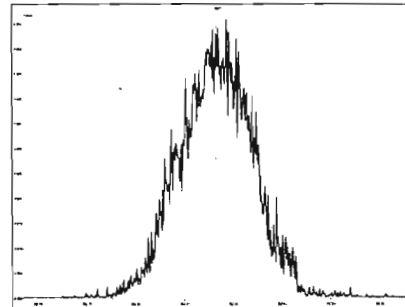
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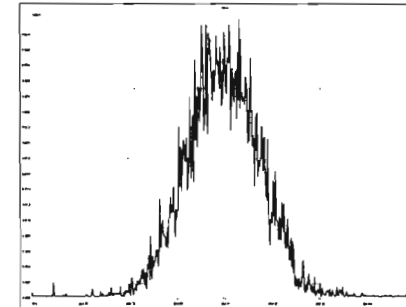
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M 392.9760 R 12090

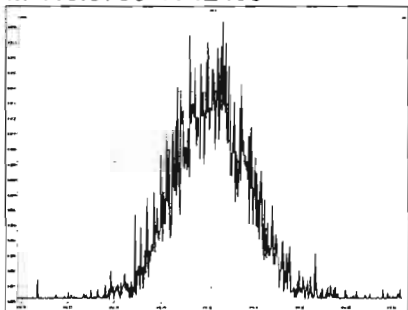


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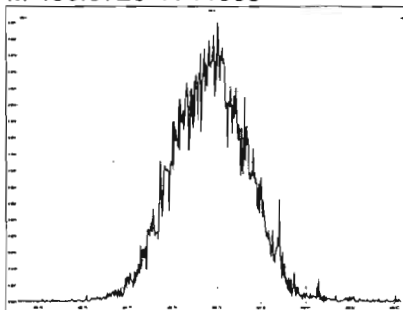


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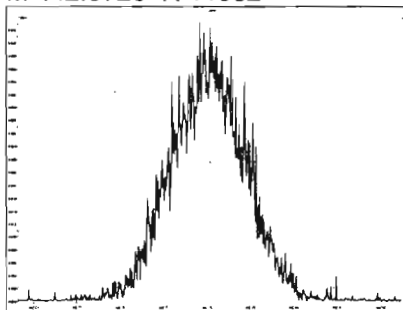
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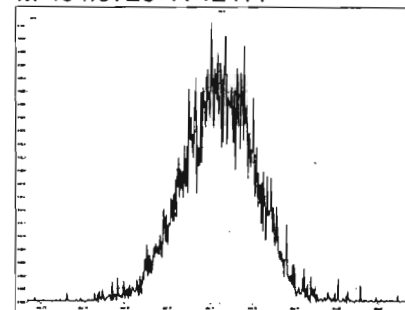
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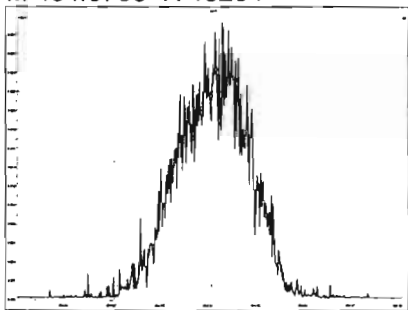
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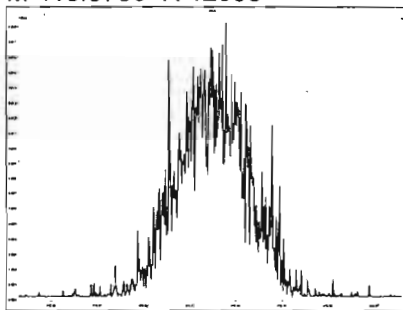
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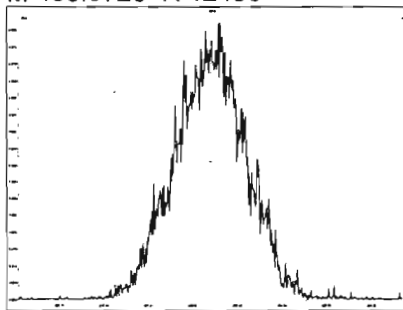
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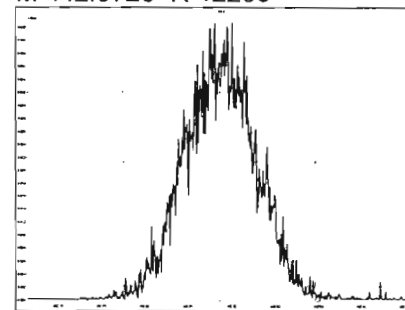
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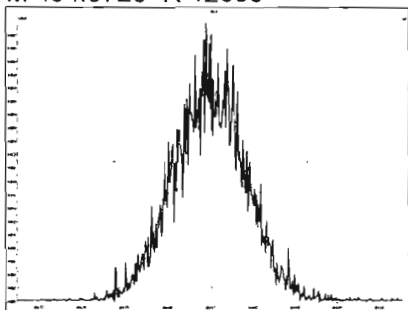
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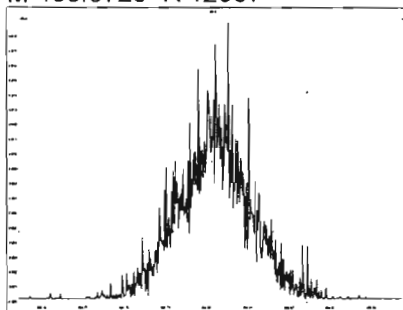
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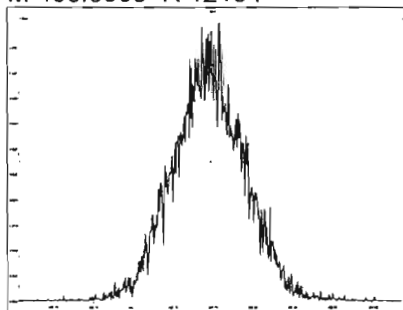
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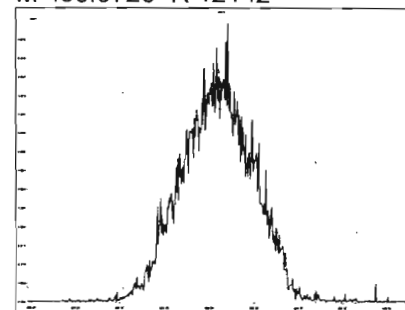
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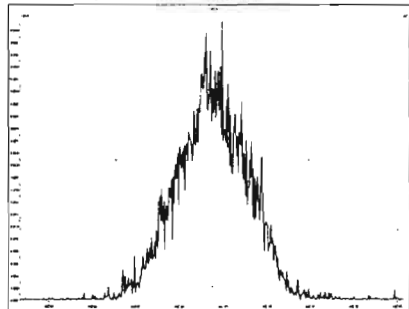
M 480.9696 R 12154



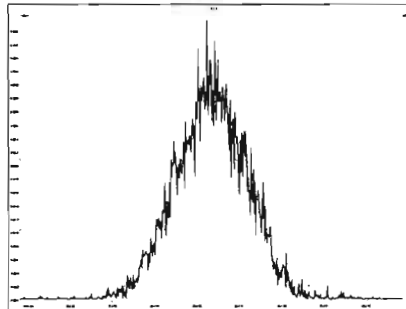
M 430.9728 R 12142



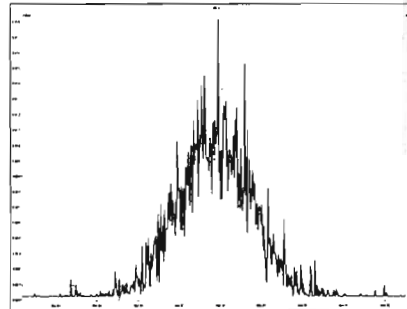
M 442.9728 R 12853



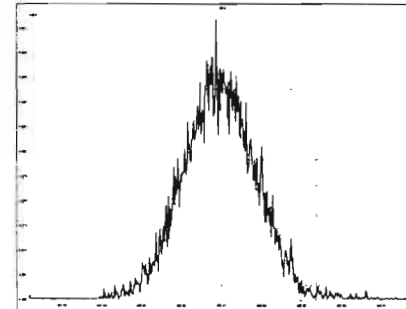
M 454.9728 R 12213



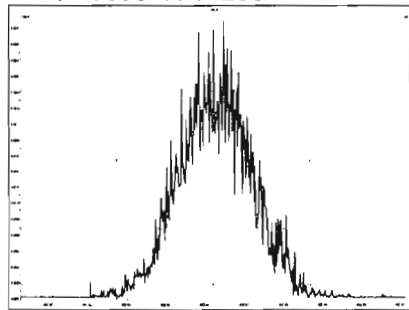
M 466.9728 R 12501



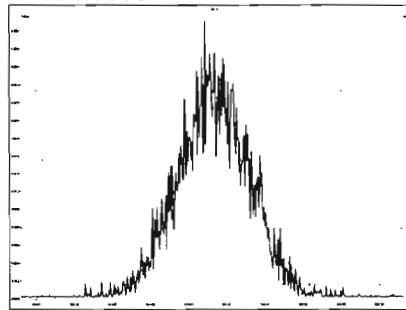
M 480.9696 R 12255



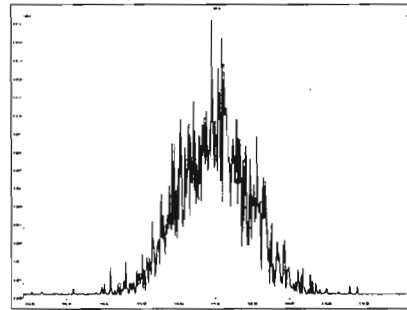
M 492.9696 R 12255



M 504.9696 R 12406



M 516.9697 R 12265



Dataset: U:\VG12.PRO\Results\200309R2\200309R2-CRV.qld

Last Altered: Tuesday, March 10, 2020 8:18:28 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:19:39 AM Pacific Daylight Time

GRB 03/10/2020

CT 03/10/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

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

Response Factor: 0.820787

RRF SD: 0.107593, Relative SD: 13.1085

Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200309R2_2	0.250	0.77	NO	16.58	1.001	4.20e3	1.63e6	0.314	25.4	1.03	MM
2	200309R2_3	0.500	0.73	NO	16.59	1.001	5.46e3	1.37e6	0.487	-2.7	0.799	MM
3	200309R2_4	2.00	0.74	NO	16.56	1.001	2.05e4	1.37e6	1.81	-9.3	0.745	bb
4	200309R2_5	10.0	0.75	NO	16.56	1.001	1.02e5	1.39e6	8.95	-10.5	0.735	bb
5	200309R2_6	40.0	0.74	NO	16.56	1.001	5.13e5	1.61e6	38.8	-3.0	0.796	bb
6	200309R2_7	300	0.76	NO	16.56	1.001	4.09e6	1.66e6	300	-0.0	0.821	bb

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

Response Factor: 1.10088

RRF SD: 0.097324, Relative SD: 8.84057

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200309R2_2	100	0.78	NO	16.56	1.147	1.63e6	1.30e6	114	13.7	1.25	bb
2	200309R2_3	100	0.77	NO	16.56	1.147	1.37e6	1.38e6	89.9	-10.1	0.990	bb
3	200309R2_4	100	0.77	NO	16.54	1.146	1.37e6	1.38e6	90.5	-9.5	0.996	bb
4	200309R2_5	100	0.77	NO	16.54	1.147	1.39e6	1.25e6	102	1.6	1.12	bb
5	200309R2_6	100	0.77	NO	16.54	1.146	1.61e6	1.43e6	102	2.2	1.13	bb
6	200309R2_7	100	0.77	NO	16.54	1.146	1.66e6	1.48e6	102	2.0	1.12	bb

Dataset: U:\VG12.PRO\Results\200309R2\200309R2-CRV.qld

Last Altered: Tuesday, March 10, 2020 8:18:28 AM Pacific Daylight Time
 Printed: Tuesday, March 10, 2020 8:19:39 AM Pacific Daylight Time

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200309R2_2	100	0.79	NO	14.45	1.000	1.30e6	1.30e6	100	0.0	1.00	bb
2	200309R2_3	100	0.79	NO	14.45	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
3	200309R2_4	100	0.79	NO	14.44	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
4	200309R2_5	100	0.78	NO	14.42	1.000	1.25e6	1.25e6	100	0.0	1.00	bb
5	200309R2_6	100	0.79	NO	14.44	1.000	1.43e6	1.43e6	100	0.0	1.00	bb
6	200309R2_7	100	0.78	NO	14.44	1.000	1.48e6	1.48e6	100	0.0	1.00	bb

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

Response Factor: 11994.1

RRF SD: 1070.13, Relative SD: 8.92214

Response type: External Std, Area

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200309R2_2	100	0.77	NO	15.08	0.000	1.28e6		107	6.6	12800	bd
2	200309R2_3	100	0.78	NO	15.06	0.000	1.08e6		90.4	-9.6	10800	bd
3	200309R2_4	100	0.77	NO	15.05	0.000	1.11e6		92.2	-7.8	11100	bd
4	200309R2_5	100	0.75	NO	15.05	0.000	1.12e6		93.6	-6.4	11200	bd
5	200309R2_6	100	0.77	NO	15.05	0.000	1.28e6		107	6.5	12800	bd
6	200309R2_7	100	0.78	NO	15.05	0.000	1.33e6		111	10.8	13300	bd

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 8:04:02 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:04:32 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 07:53:03

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

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1	200309R2_1	CP200309R2_1 225 CPSM	09-Mar-20	17:55:29
2	200309R2_2	ST200309R2_1 1613 CS0 19L2302	09-Mar-20	18:25:43
3	200309R2_3	ST200309R2_2 1613 CS1 19L2303	09-Mar-20	18:56:05
4	200309R2_4	ST200309R2_3 1613 CS2 19L2304	09-Mar-20	19:26:33
5	200309R2_5	ST200309R2_4 1613 CS3 19L2305	09-Mar-20	19:57:01
6	200309R2_6	ST200309R2_5 1613 CS4 19L2306	09-Mar-20	20:27:25
7	200309R2_7	ST200309R2_6 1613 CS5 19L2307	09-Mar-20	20:57:48
8	200309R2_8	SOLVENT BLANK	09-Mar-20	21:28:11
9	200309R2_9	SS200309R2_1 1613 SSS 19L2308	09-Mar-20	21:58:38
10	200309R2_10	SOLVENT BLANK	09-Mar-20	22:29:05
11	200309R2_11	1904012-10RE2 PX-S23-SB48-0203 10.92	09-Mar-20	22:59:38
12	200309R2_12	2000301-01RE2 PDI-077SC-A-02-03-191014 ...	09-Mar-20	23:29:57
13	200309R2_13	B0B0291-DUP1 Duplicate 18.51	10-Mar-20	00:00:21
14	200309R2_14	2000407-01RE1 PDI-084SC-A-05-06-191002 ...	10-Mar-20	00:30:51
15	200309R2_15	2000407-02RE1 PDI-084SC-A-06-07-191002 ...	10-Mar-20	01:01:18
16	200309R2_16	2000407-03RE1 PDI-084SC-A-07-08-191002 ...	10-Mar-20	01:31:45
17	200309R2_17	2000407-04RE1 PDI-084SC-A-08-09-191002 ...	10-Mar-20	02:02:13
18	200309R2_18	2000407-05RE1 PDI-084SC-A-09-10-191002 ...	10-Mar-20	02:32:40
19	200309R2_19	2000407-06RE1 PDI-084SC-A-10-11-191002 ...	10-Mar-20	03:03:07
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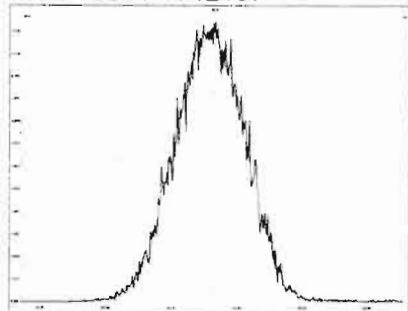
Experiment Calibration Report

MassLynx 4.1 SCN815

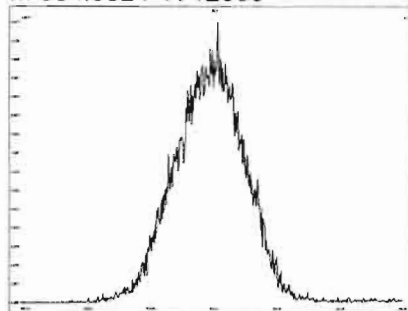
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Printed: Monday, March 09, 2020 17:53:48 Pacific Daylight Time

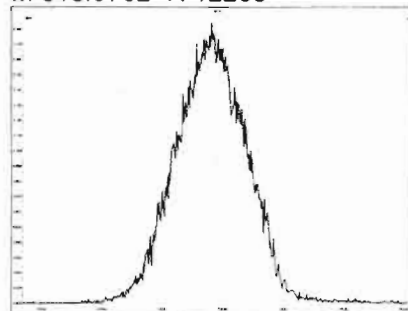
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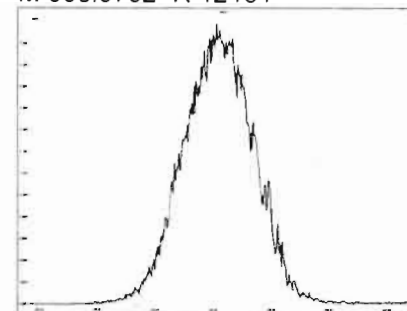
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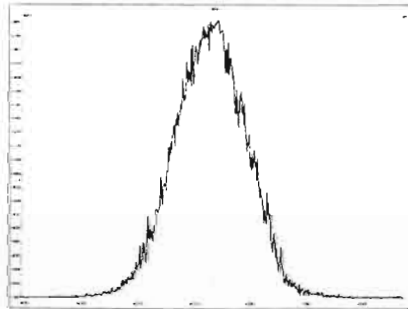
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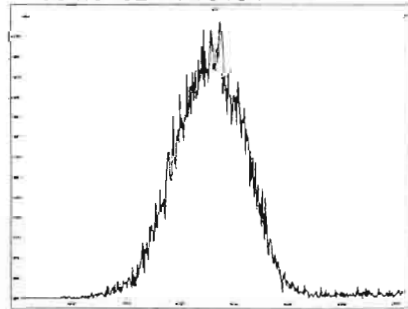
M 330.9792 R 12131



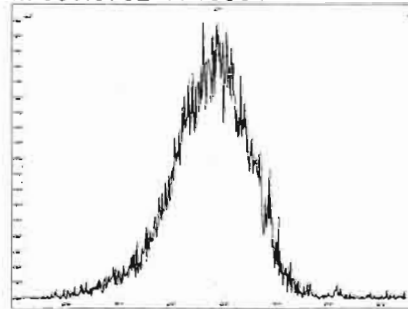
M 342.9792 R 11960



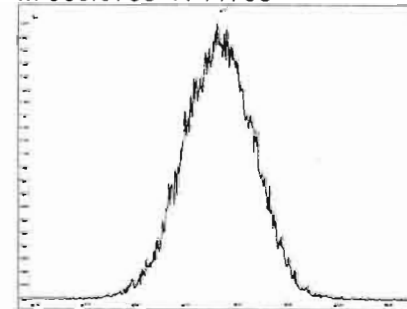
M 354.9792 R 13154



M 366.9792 R 10504



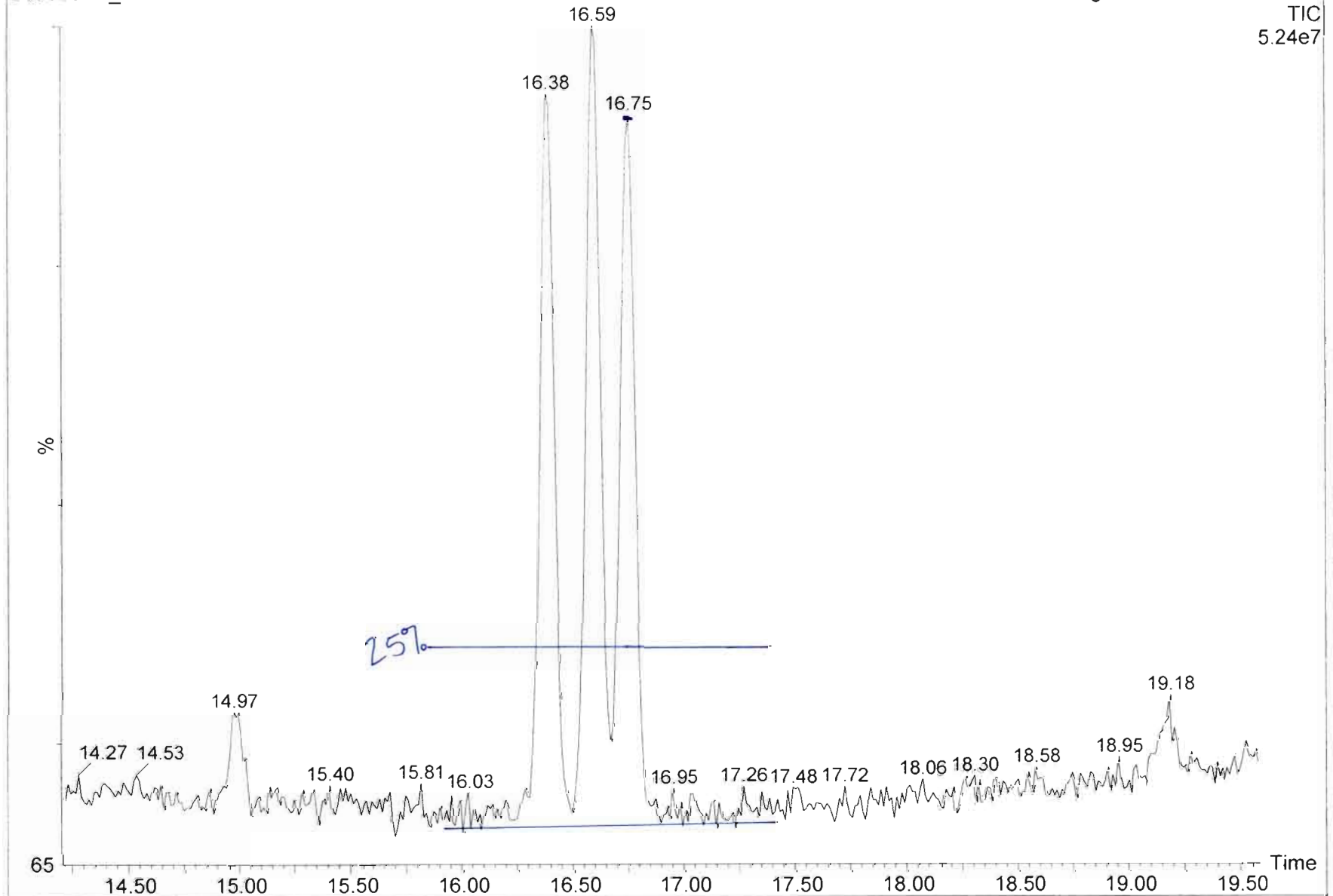
M 380.9760 R 11795



GRB 03/10/2020

225 CPSM
200309R2_1

Voltage SIR 12 Channels EI+
TIC
5.24e7



Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

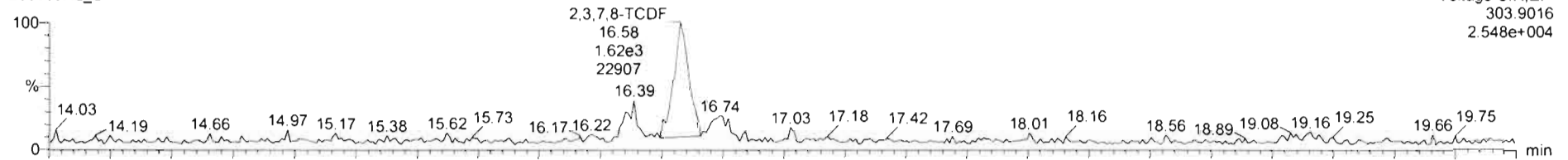
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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

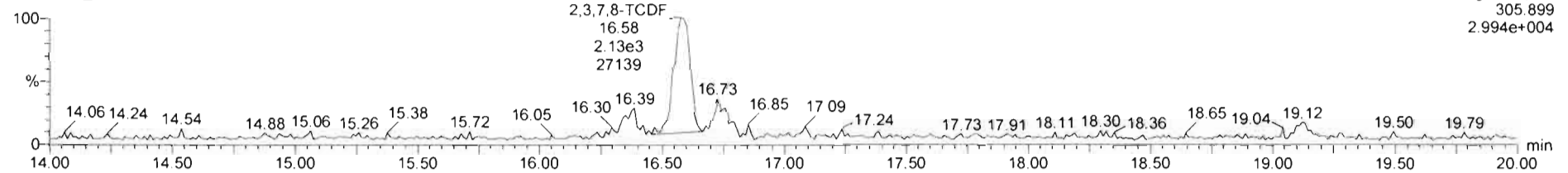
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2,3,7,8-TCDF

200309R2_2

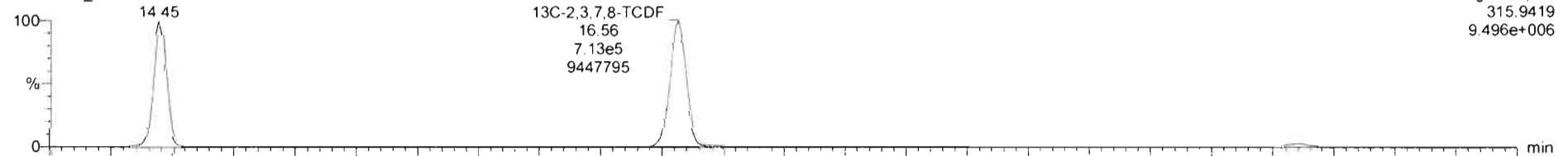


200309R2_2

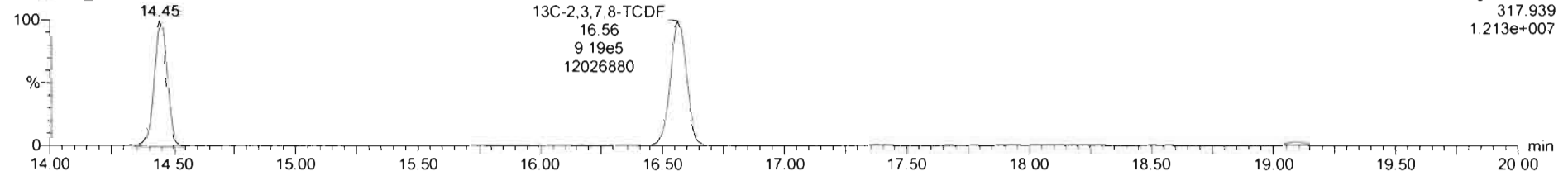


13C-2,3,7,8-TCDF

200309R2_2



200309R2_2

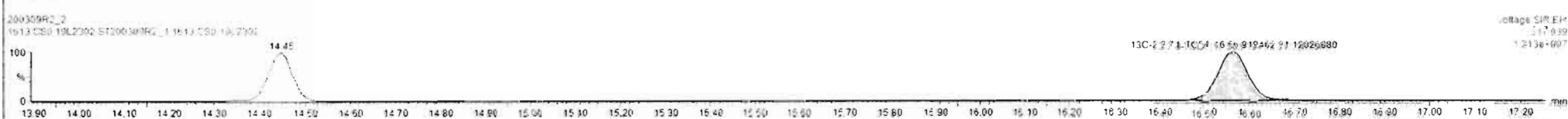
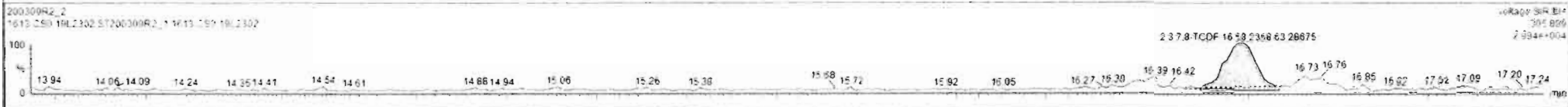
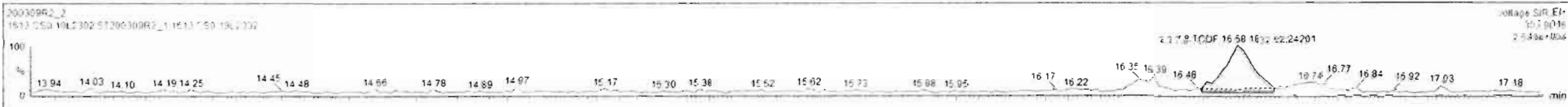


TargetLynx - untitled - Chromatogram

File Edit View Display Processing Window Help

200309R2_2 - ST200309R2_1 1613 CS0 19L2302 - 1613 CS0 19L2302

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	2,3,7,8-TCDF	16.58	0.774	NO	4.2011e3	1.6321e6	0.250	24.2	13.0	6.829	0.107
2	13C-2,3,7,8-TCDF	16.58	0.775	NO	1.6321e5	1.3038e6	100.000	12.7	2.84	1.10	0.0973
3	13C-1,2,3,4-TCDF	14.45	0.787	NO	1.3038e6	1.3038e6	100.000	6.0	0.000	1.00	0.000
4	13C-1,2,3,4-TCDD	15.08	0.790	NO	1.2780e6		100.000	6.6	8.92	12000	1070
5	PFK1						1.000				
6	DPE1						1.000				



Dataset: Untitled

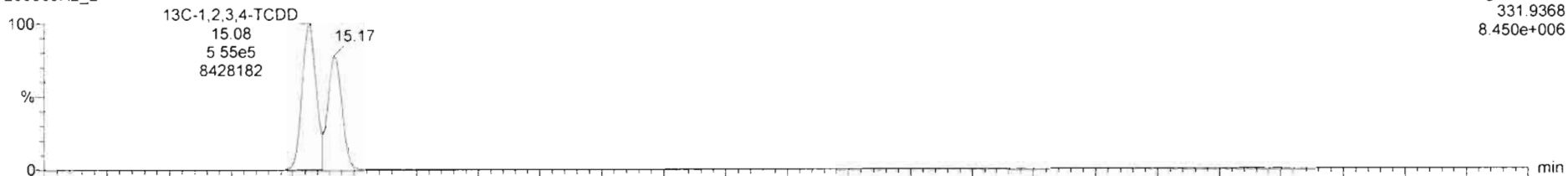
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Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

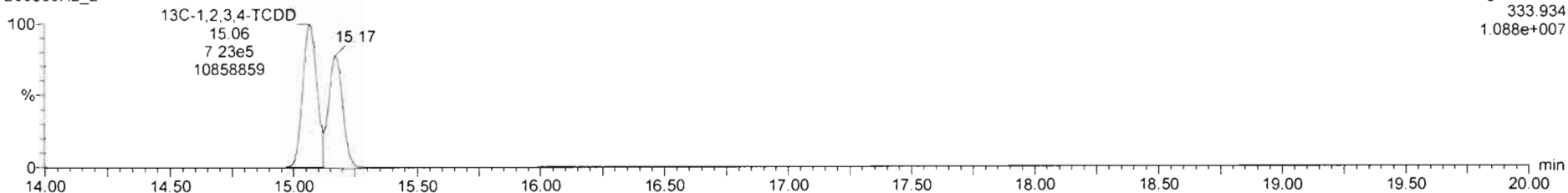
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13C-1,2,3,4-TCDD

200309R2_2

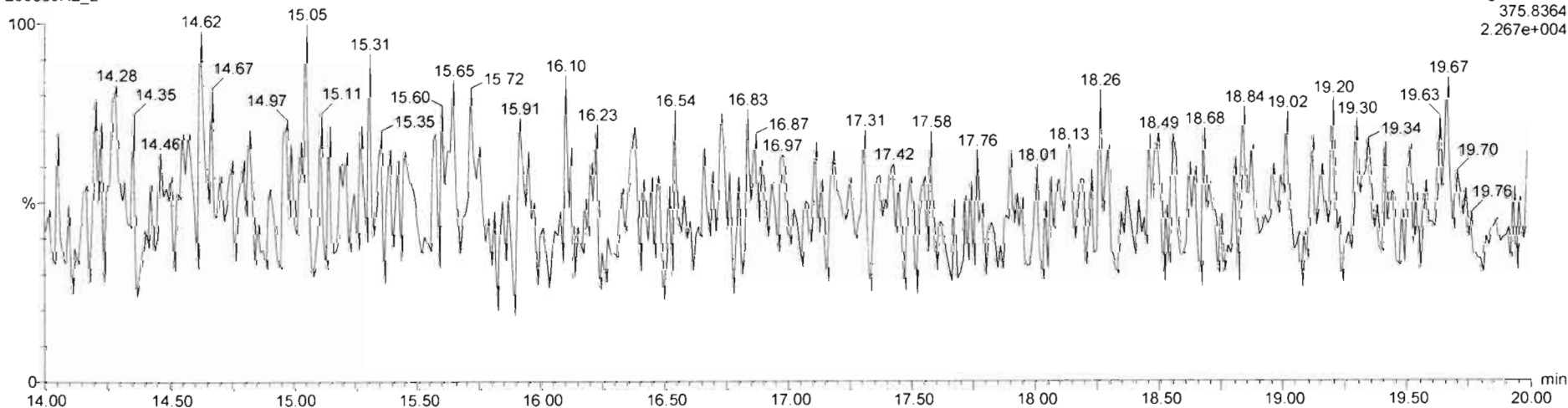


200309R2_2



DPE1

200309R2_2



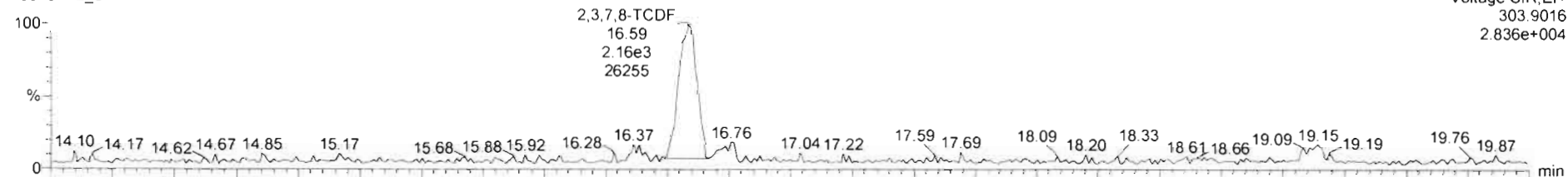
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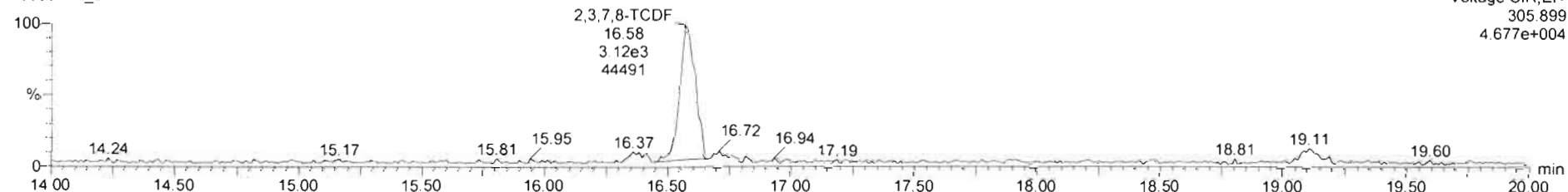
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2,3,7,8-TCDF

200309R2_3

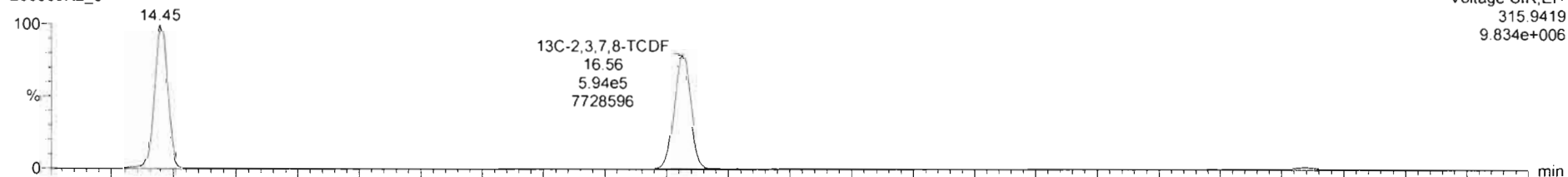


200309R2_3

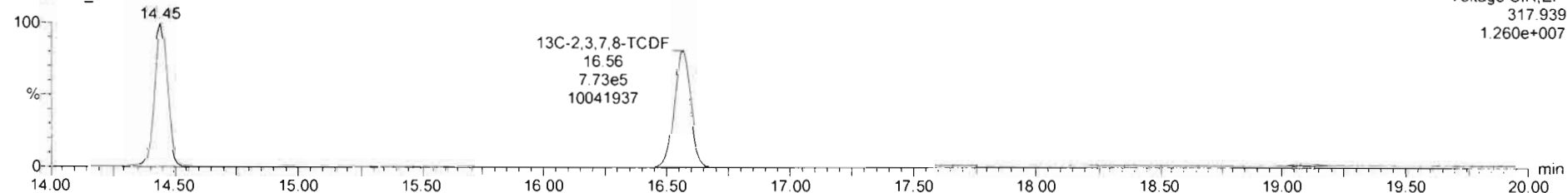


13C-2,3,7,8-TCDF

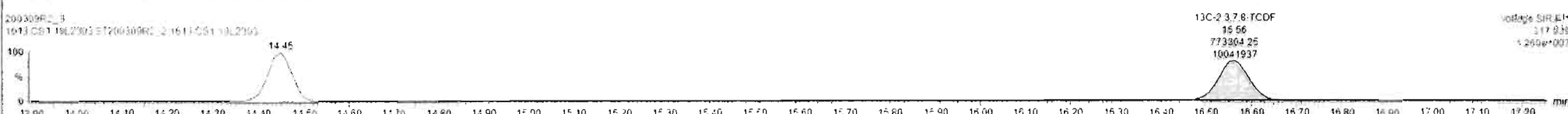
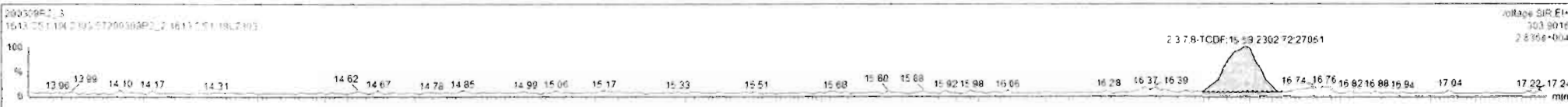
200309R2_3



200309R2_3



#	Name	RT	RA	Y/N	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDF	16.56	0.729	NO	5.4614e3	1.3676e6	0.500	-2.7	13.1	0.021	0.108
2	13C-2,3,7,8-TCDF	16.56	0.768	NO	1.3676e6	1.3812e6	100.000	-10.1	2.84	1.10	0.0973
3	13C-1,2,3,4-TCDF	14.45	0.781	NO	1.3812e6	1.3812e6	100.000	0.0	0.000	1.00	0.000
4	13C-1,2,3,4-TCDD	15.96	0.777	NO	1.0641e6		100.000	-9.6	8.92	12000	1070
5	DPK1						1.000				
6	DPS1						1.000				



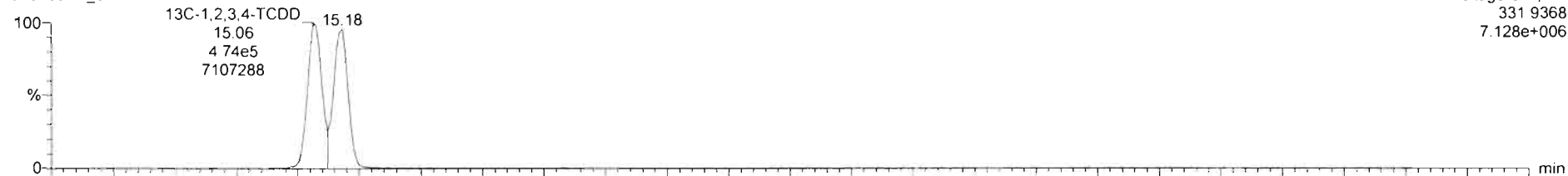
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Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

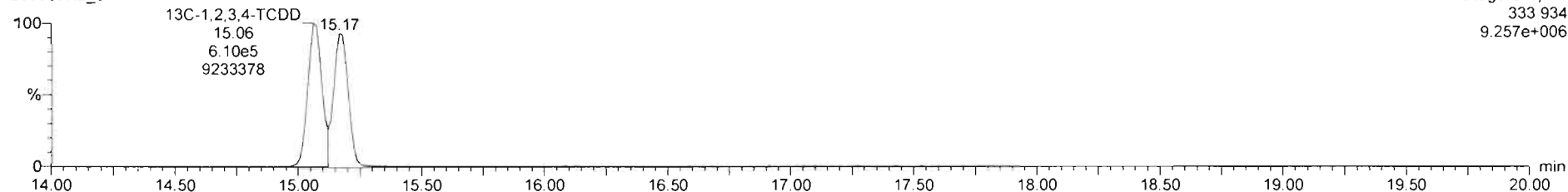
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13C-1,2,3,4-TCDD

200309R2_3

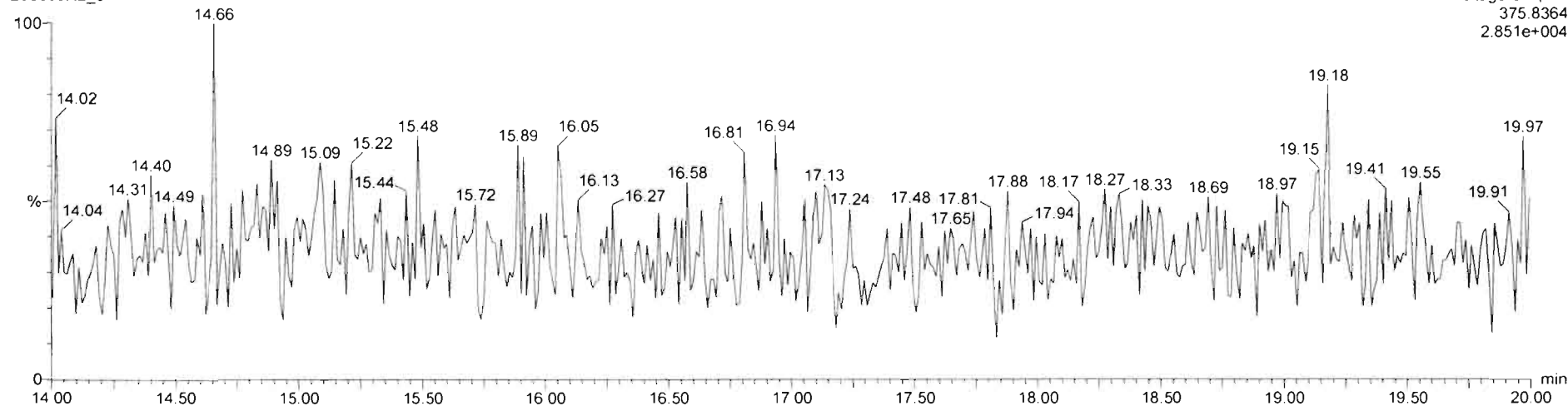


200309R2_3



DPE1

200309R2_3



Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

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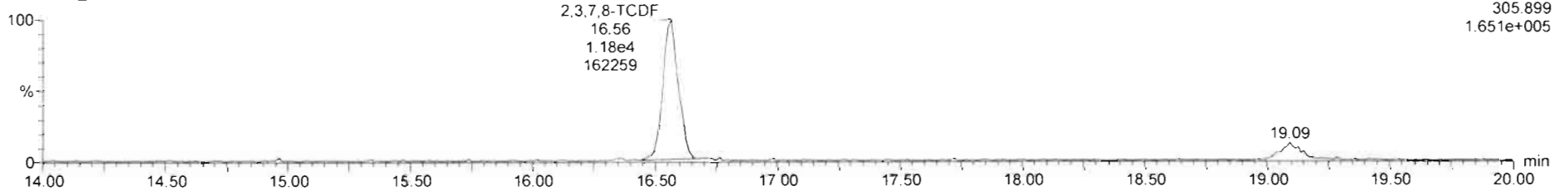
2,3,7,8-TCDF

200309R2_4



Voltage SIR,EI+
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1.158e+005

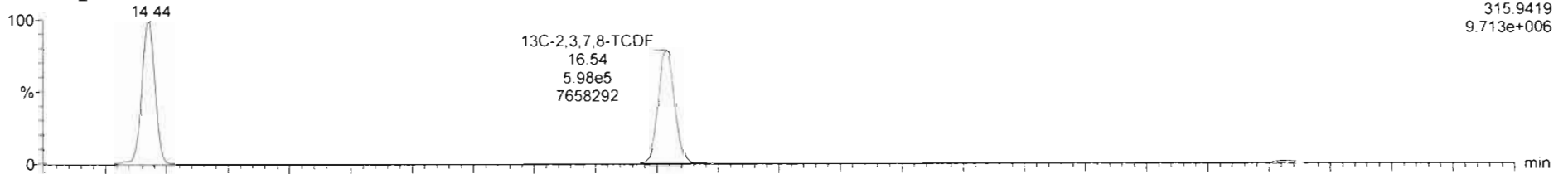
200309R2_4



Voltage SIR,EI+
305.899
1.651e+005

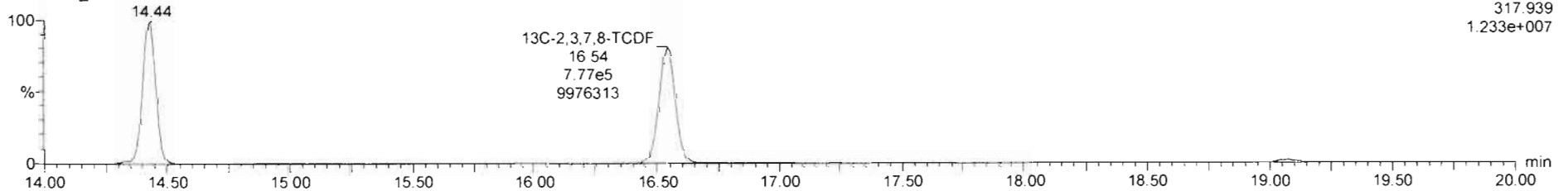
13C-2,3,7,8-TCDF

200309R2_4



Voltage SIR,EI+
315.9419
9.713e+006

200309R2_4



Voltage SIR,EI+
317.939
1.233e+007

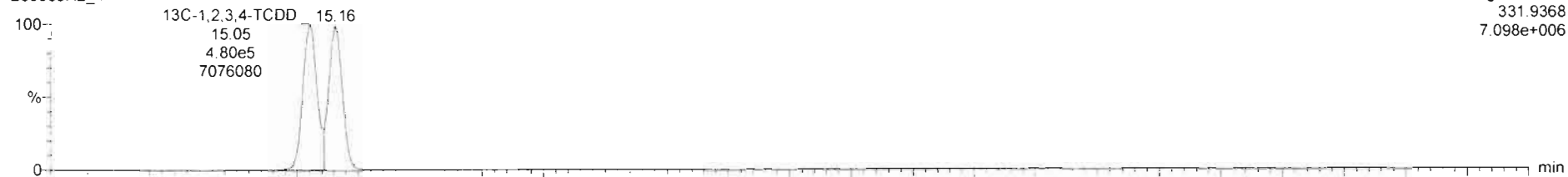
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Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

Name: 200309R2_4, Date: 09-Mar-2020, Time: 19:26:33, ID: ST200309R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

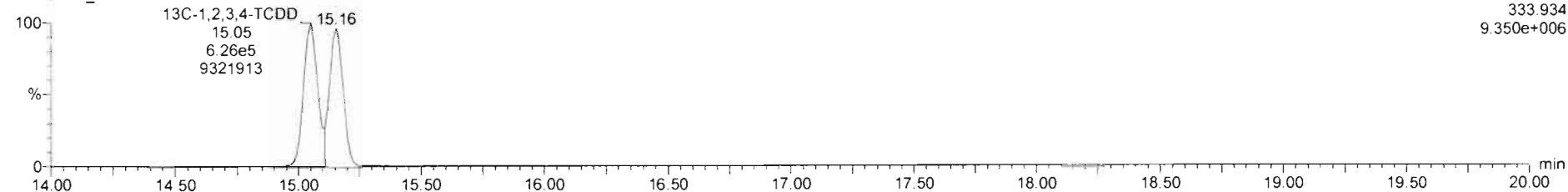
13C-1,2,3,4-TCDD

200309R2_4



Voltage SIR,EI+
331.9368
7.098e+006

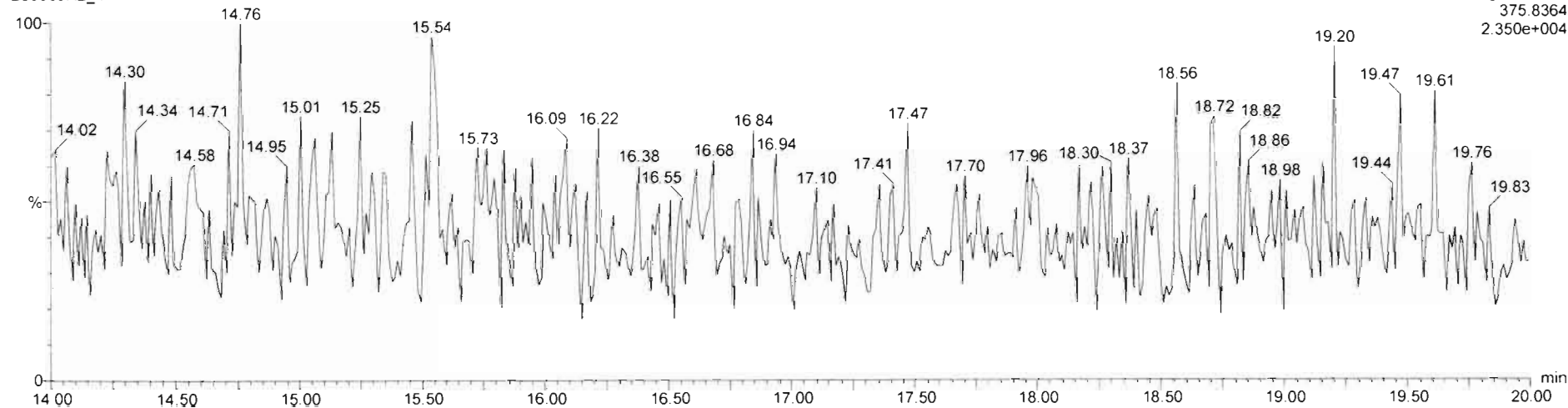
200309R2_4



Voltage SIR,EI+
333.934
9.350e+006

DPE1

200309R2_4



Voltage SIR,EI+
375.8364
2.350e+004

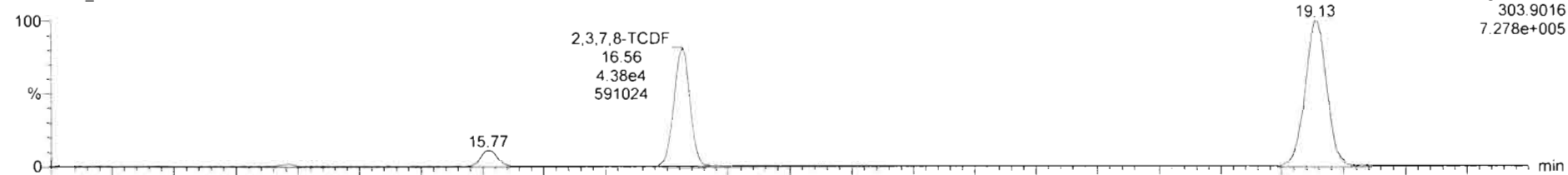
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

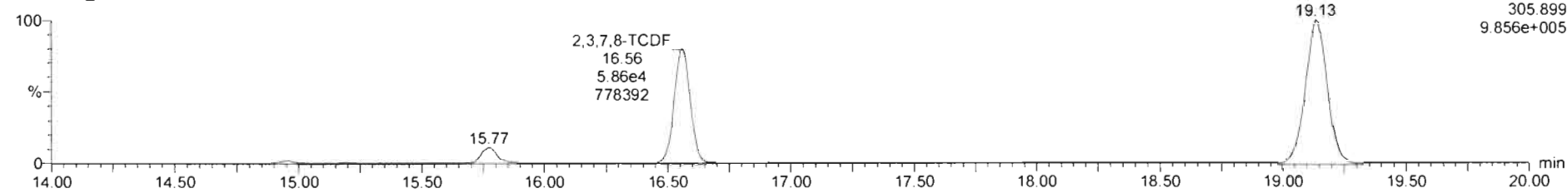
Name: 200309R2_5, Date: 09-Mar-2020, Time: 19:57:01, ID: ST200309R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200309R2_5

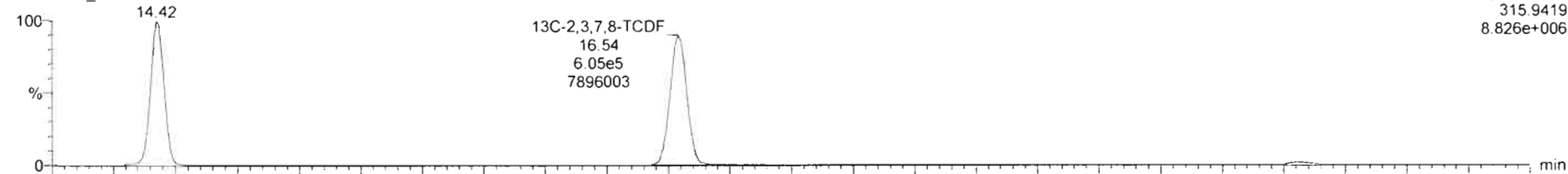


200309R2_5

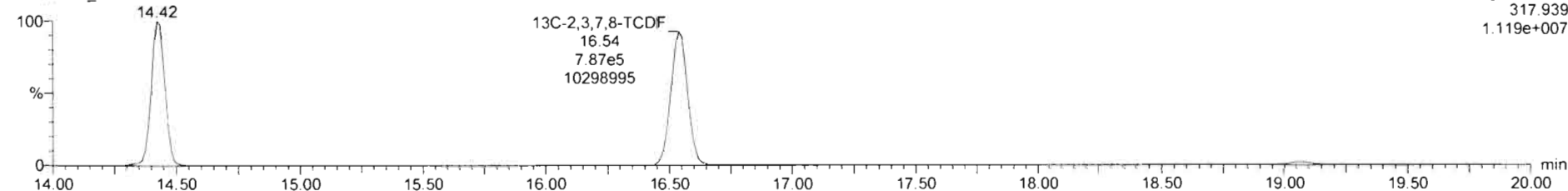


13C-2,3,7,8-TCDF

200309R2_5



200309R2_5



Dataset: Untitled

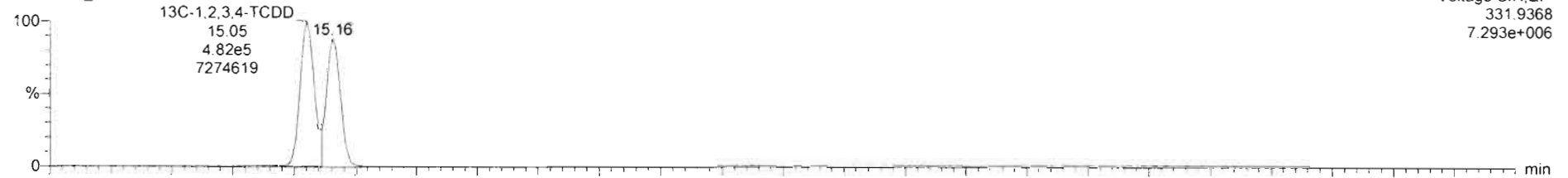
Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

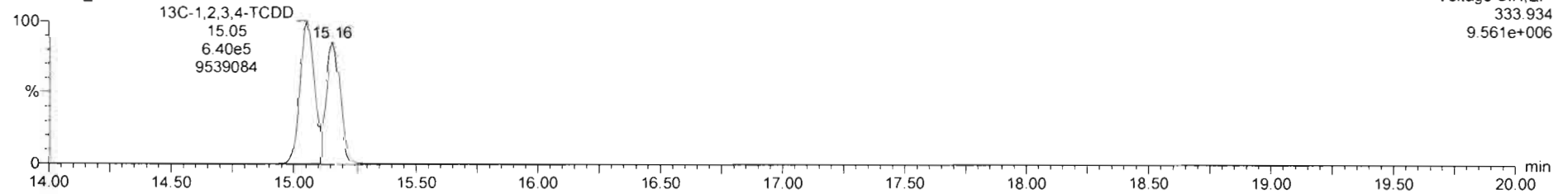
Name: 200309R2_5, Date: 09-Mar-2020, Time: 19:57:01, ID: ST200309R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200309R2_5

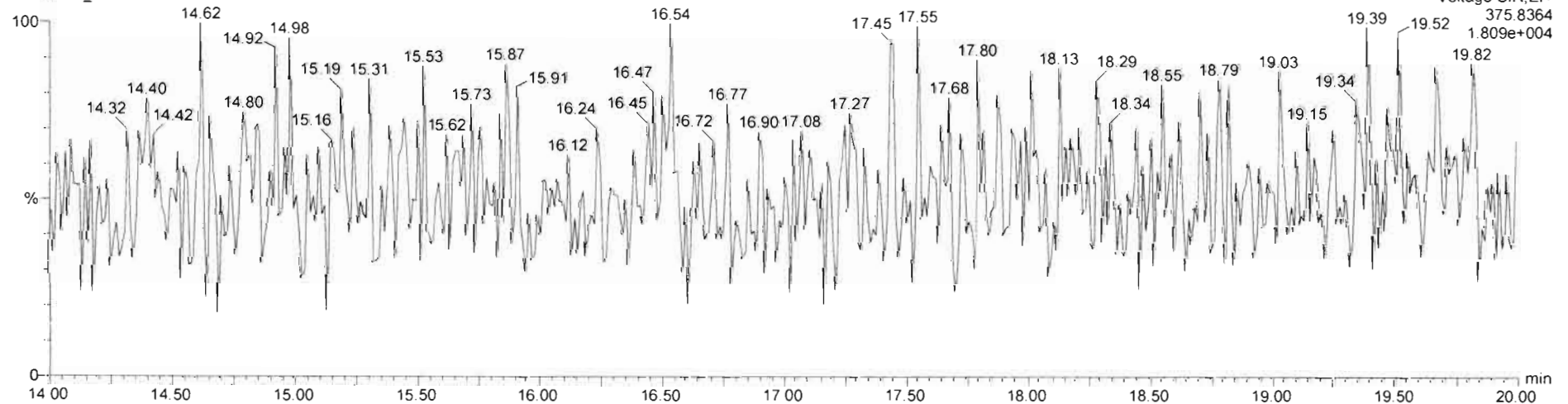


200309R2_5



DPE1

200309R2_5



Dataset: Untitled

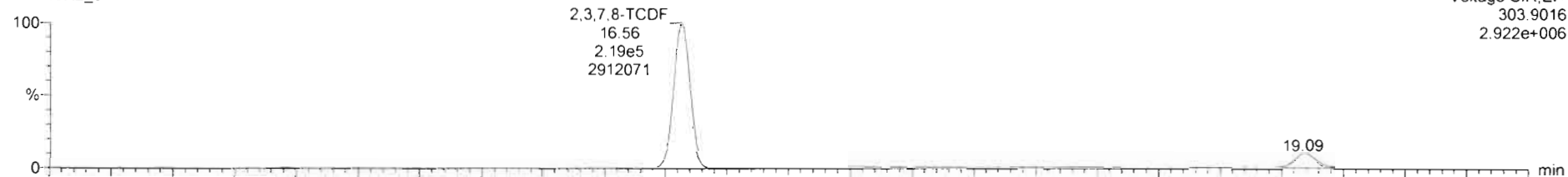
Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

Name: 200309R2_6, Date: 09-Mar-2020, Time: 20:27:25, ID: ST200309R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

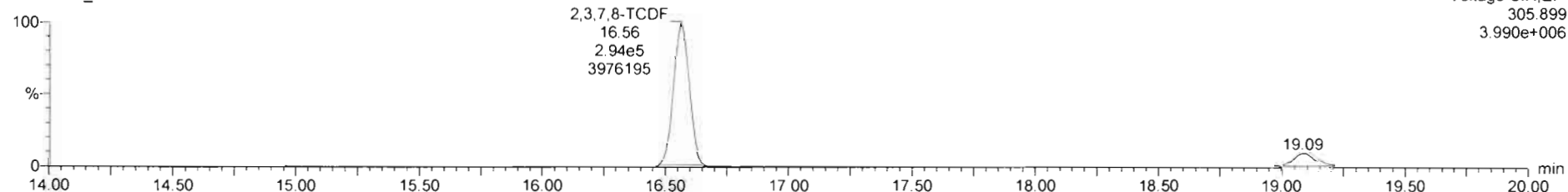
2,3,7,8-TCDF

200309R2_6



Voltage SIR,EI+
303.9016
2.922e+006

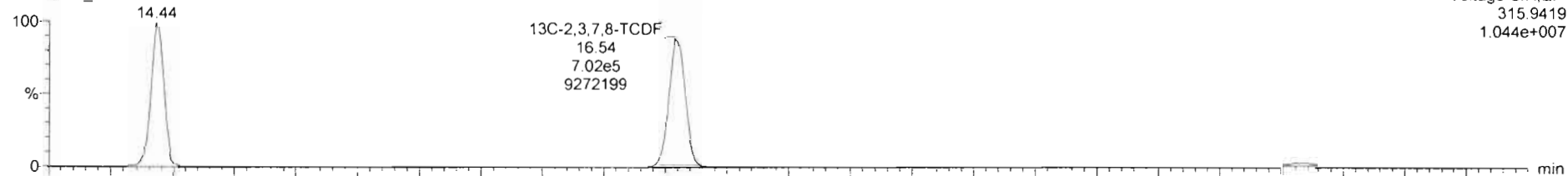
200309R2_6



Voltage SIR,EI+
305.899
3.990e+006

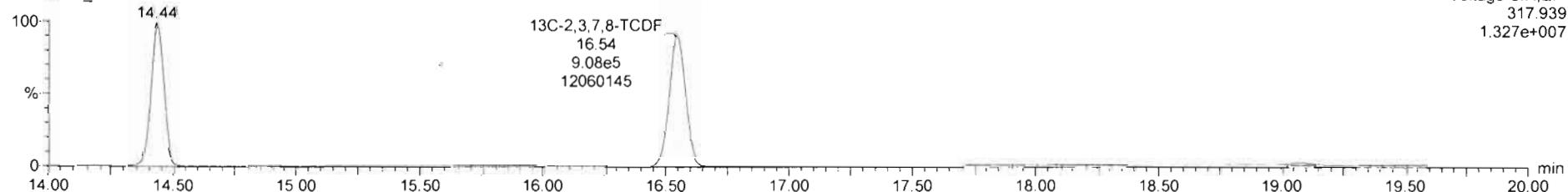
13C-2,3,7,8-TCDF

200309R2_6



Voltage SIR,EI+
315.9419
1.044e+007

200309R2_6



Voltage SIR,EI+
317.939
1.327e+007

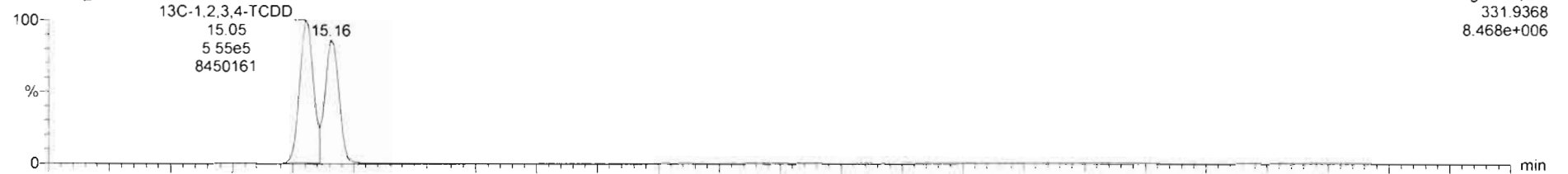
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

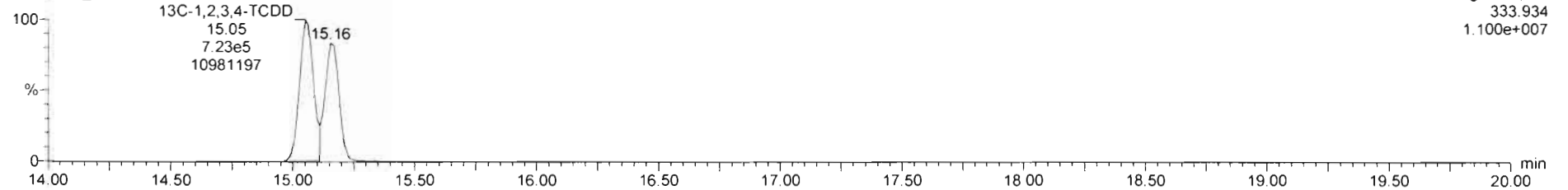
Name: 200309R2_6, Date: 09-Mar-2020, Time: 20:27:25, ID: ST200309R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200309R2_6

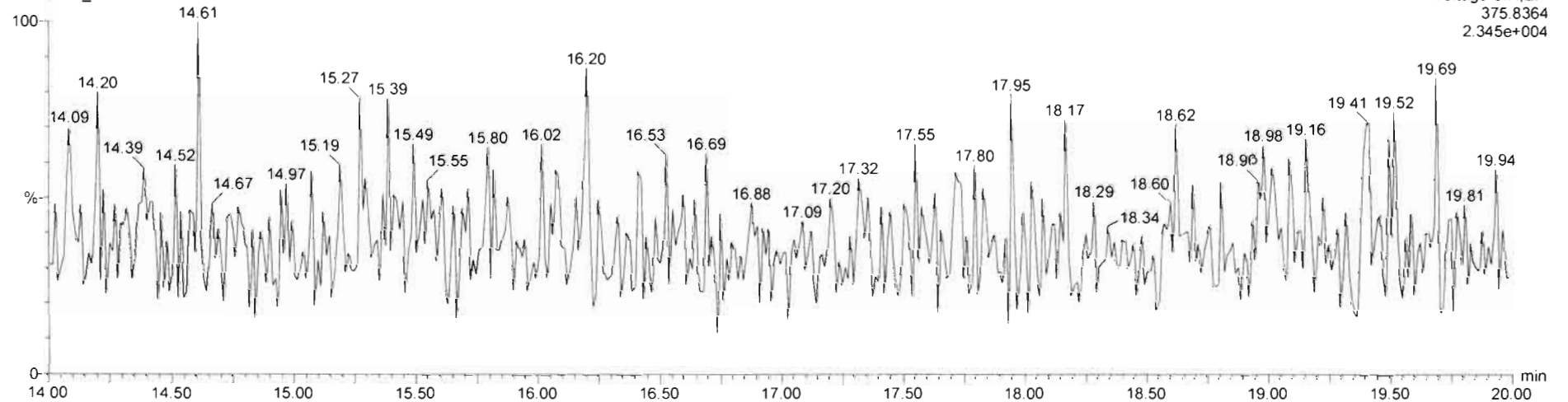


200309R2_6



DPE1

200309R2_6



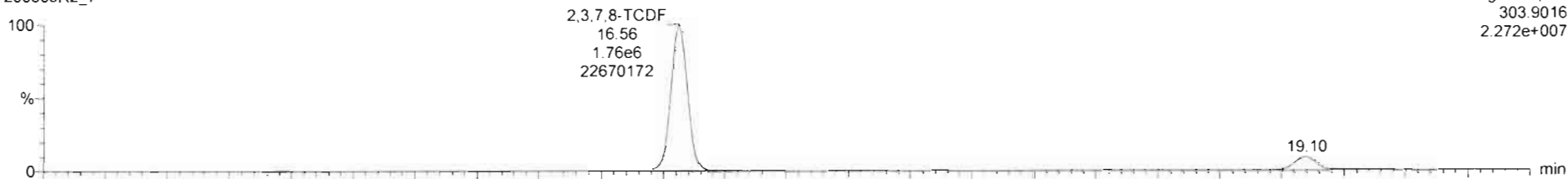
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

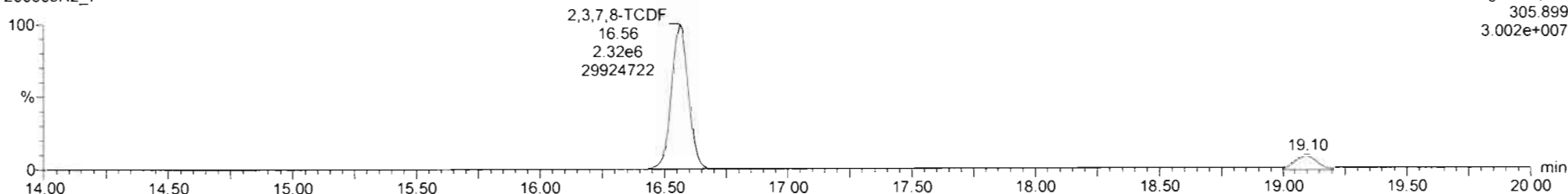
Name: 200309R2_7, Date: 09-Mar-2020, Time: 20:57:48, ID: ST200309R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

2,3,7,8-TCDF

200309R2_7

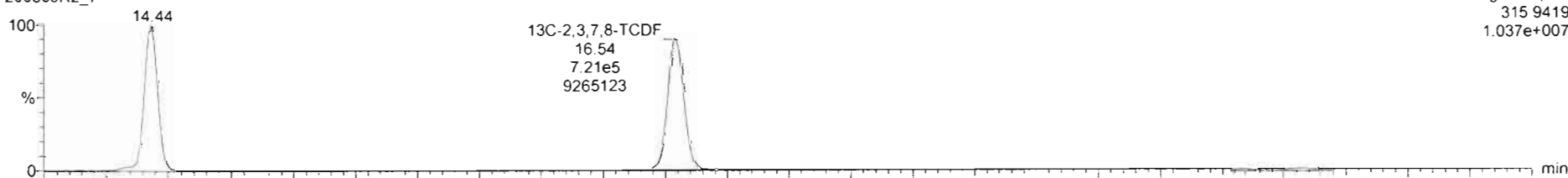


200309R2_7

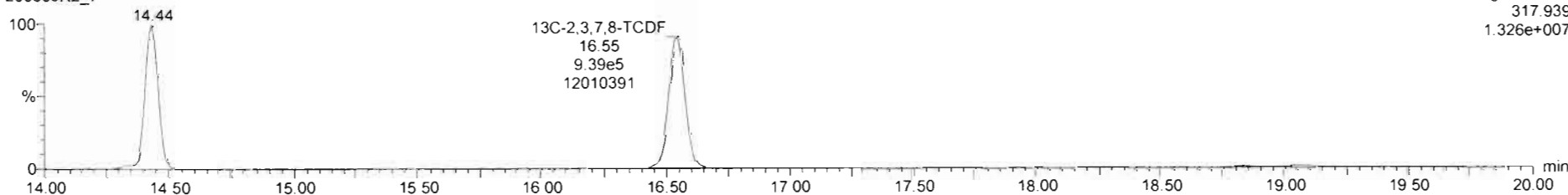


13C-2,3,7,8-TCDF

200309R2_7



200309R2_7



Dataset: Untitled

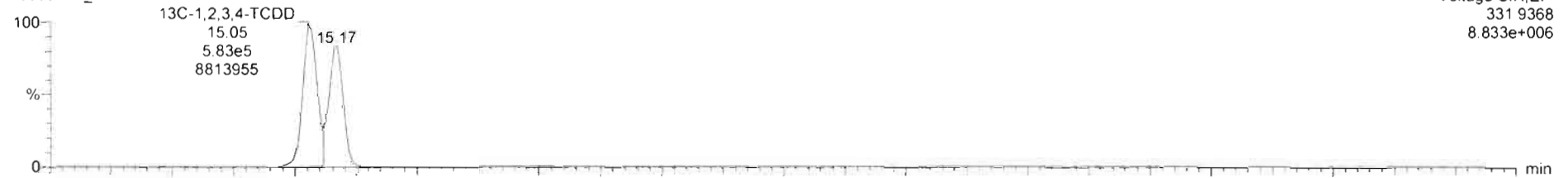
Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

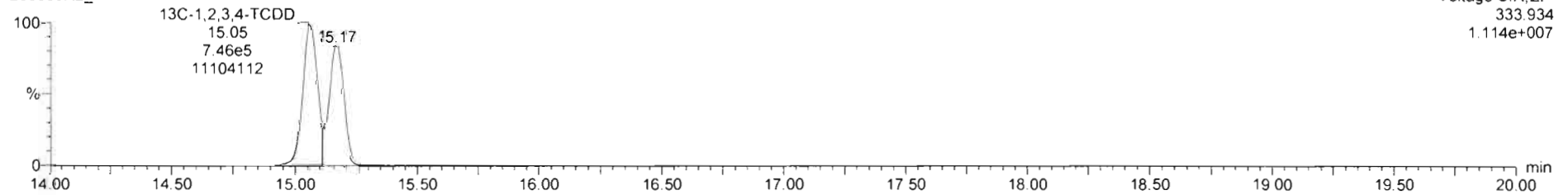
Name: 200309R2_7, Date: 09-Mar-2020, Time: 20:57:48, ID: ST200309R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200309R2_7

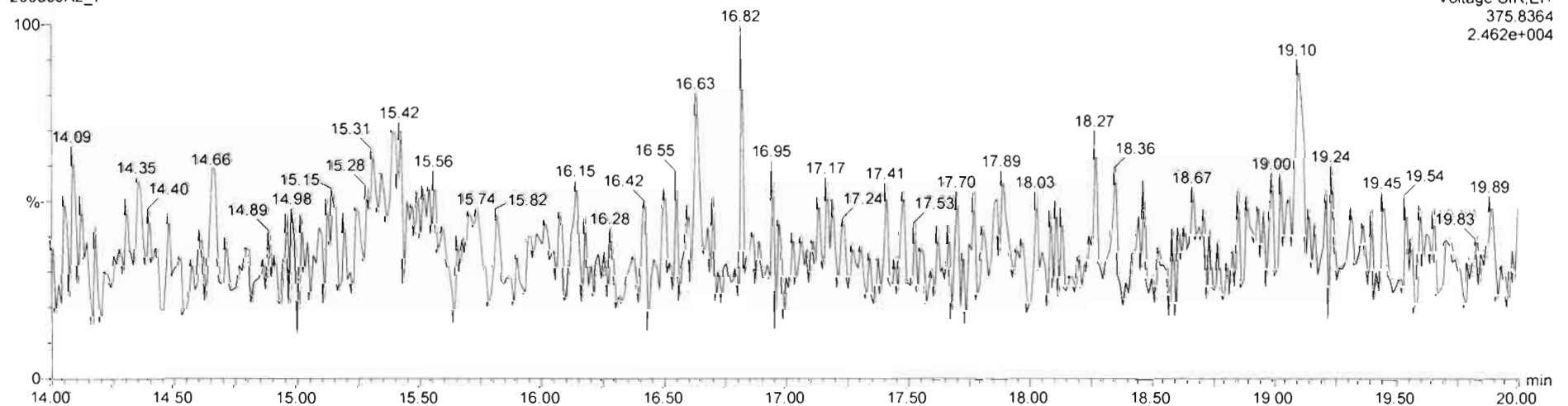


200309R2_7



DPE1

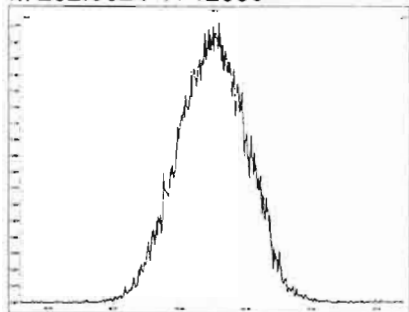
200309R2_7



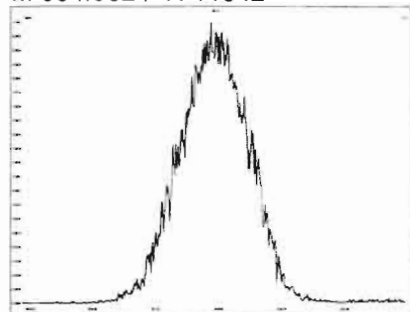
File: Experiment: tcdf_db225.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, March 10, 2020 07:42:24 Pacific Daylight Time

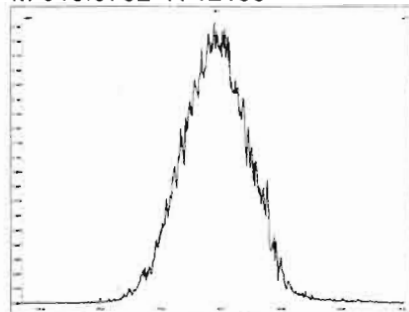
M 292.9824 R 12559



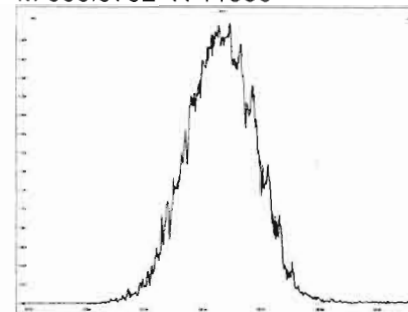
M 304.9824 R 11842



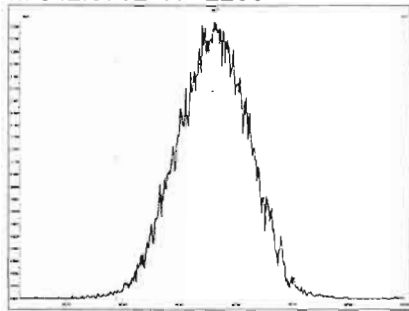
M 318.9792 R 12193



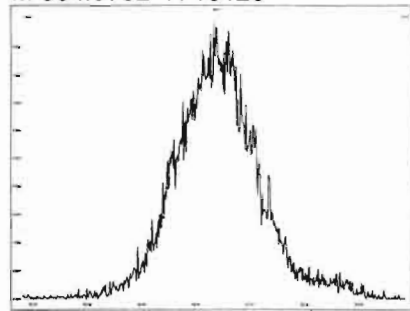
M 330.9792 R 11963



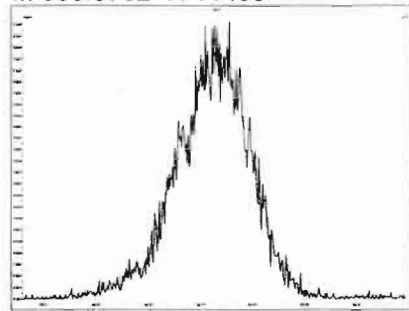
M 342.9792 R 12200



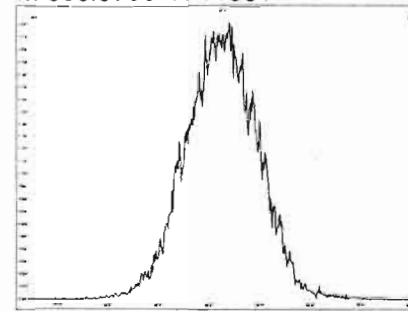
M 354.9792 R 10120



M 366.9792 R 11468



M 380.9760 R 11681



Dataset: U:\VG12.PRO\Results\200309R2\200309R2-9.qld

Last Altered: Tuesday, March 10, 2020 8:22:49 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:25:09 AM Pacific Daylight Time

GRB 03/10/2020

C1 03/10/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200309R2_9, Date: 09-Mar-2020, Time: 21:58:38, ID: SS200309R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.09e5	0.73	NO	0.821	1.000	16.56	10.163	102	0.0715
2	2 13C-2,3,7,8-TCDF	1.30e6	0.77	NO	1.10	1.000	16.54	93.316	93.3	0.191
3	3 13C-1,2,3,4-TCDF	1.27e6	0.79	NO	1.00	1.000	14.44	100.00	100	0.210

Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 8:22:49 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 8:22:54 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200309R2_9, Date: 09-Mar-2020, Time: 21:58:38, ID: SS200309R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

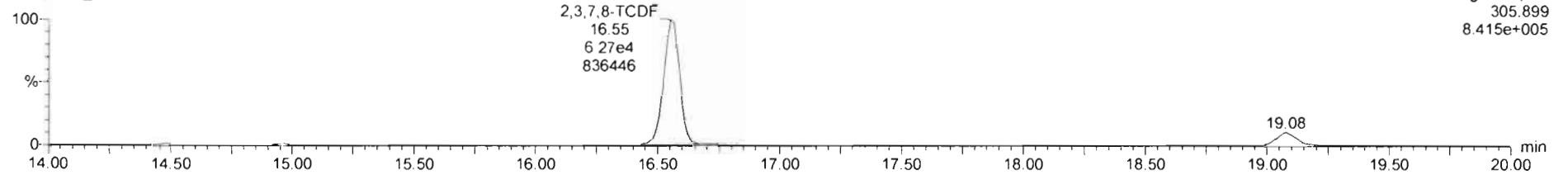
2,3,7,8-TCDF

200309R2_9



Voltage SIR,EI+
303.9016
6.147e+005

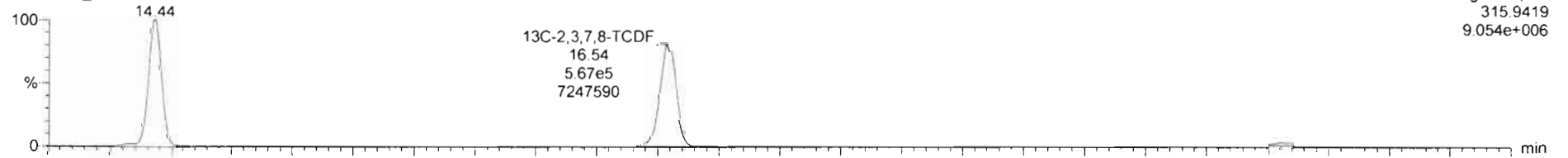
200309R2_9



Voltage SIR,EI+
305.899
8.415e+005

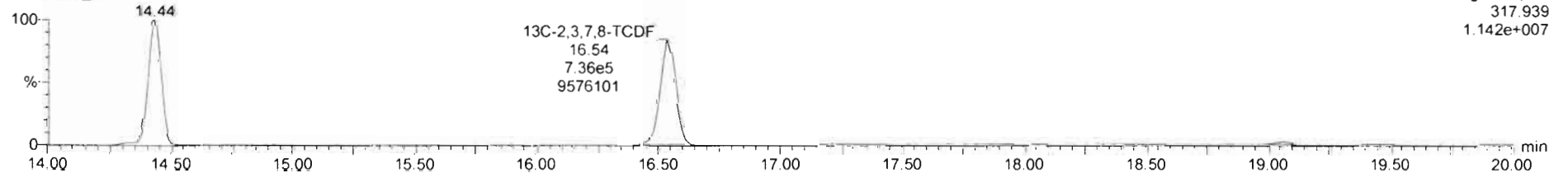
13C-2,3,7,8-TCDF

200309R2_9



Voltage SIR,EI+
315.9419
9.054e+006

200309R2_9



Voltage SIR,EI+
317.939
1.142e+007

Dataset: Untitled

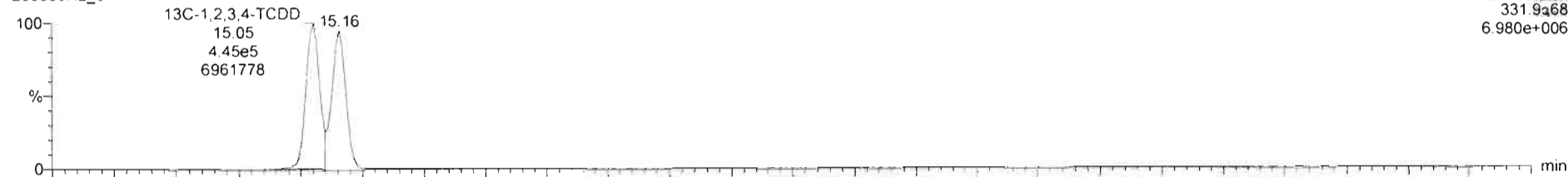
Last Altered: Tuesday, March 10, 2020 8:22:49 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:22:54 AM Pacific Daylight Time

Name: 200309R2_9, Date: 09-Mar-2020, Time: 21:58:38, ID: SS200309R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

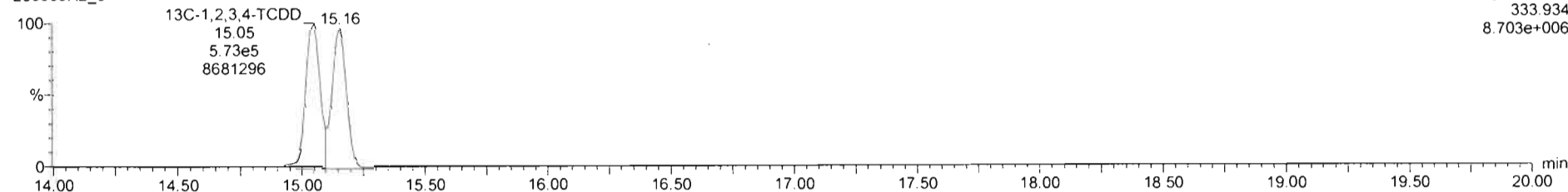
13C-1,2,3,4-TCDD

200309R2_9



Voltage SIR, EI+
331.9268
6.980e+006

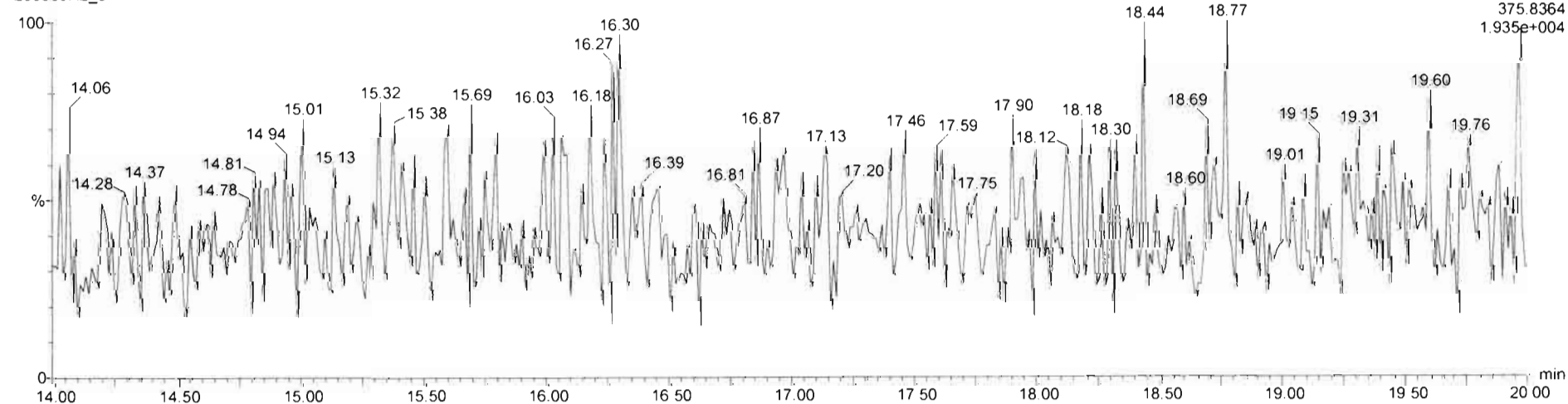
200309R2_9



Voltage SIR, EI+
333.934
8.703e+006

DPE1

200309R2_9



Voltage SIR, EI+
375.8364
1.935e+004

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

DB 2/12/20 0102/12/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

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

Response Factor: 0.9819

RRF SD: 0.0791981, Relative SD: 8.06581

Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	0.250	0.86	NO	17.23	3.04e2	1.39e5	0.223	0.876
2	2 200211D2_4	0.500	0.66	NO	17.22	6.08e2	1.13e5	0.549	1.08
3	3 200211D2_5	2.00	0.73	NO	17.23	2.63e3	1.30e5	2.06	1.01
4	4 200211D2_6	10.0	0.75	NO	17.23	1.15e4	1.25e5	9.33	0.916
5	5 200211D2_7	40.0	0.74	NO	17.23	5.76e4	1.51e5	39.0	0.957
6	6 200211D2_8	300	0.73	NO	17.23	4.81e5	1.52e5	321	1.05

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

Response Factor: 1.08271

RRF SD: 0.0939058, Relative SD: 8.67318

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.72	NO	17.20	1.39e5	1.13e5	113	1.23
2	2 200211D2_4	100	0.71	NO	17.20	1.13e5	1.14e5	91.7	0.993
3	3 200211D2_5	100	0.71	NO	17.20	1.30e5	1.34e5	89.3	0.967
4	4 200211D2_6	100	0.75	NO	17.20	1.25e5	1.15e5	101	1.09
5	5 200211D2_7	100	0.71	NO	17.20	1.51e5	1.35e5	103	1.11
6	6 200211D2_8	100	0.72	NO	17.20	1.52e5	1.38e5	102	1.11

Vista Analytical Laboratory VG-9

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 7.02167e-017, Relative SD: 7.02167e-015

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.70	NO	15.17	1.13e5	1.13e5	100	1.00
2	2 200211D2_4	100	0.71	NO	15.18	1.14e5	1.14e5	100	1.00
3	3 200211D2_5	100	0.74	NO	15.17	1.34e5	1.34e5	100	1.00
4	4 200211D2_6	100	0.72	NO	15.17	1.15e5	1.15e5	100	1.00
5	5 200211D2_7	100	0.73	NO	15.17	1.35e5	1.35e5	100	1.00
6	6 200211D2_8	100	0.73	NO	15.17	1.38e5	1.38e5	100	1.00

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

Response Factor: 1026.38

RRF SD: 123.841, Relative SD: 12.0658

Response type: External Std, Area

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.79	NO	15.78	1.04e5		102	1040
2	2 200211D2_4	100	0.77	NO	15.78	8.57e4		83.5	857
3	3 200211D2_5	100	0.79	NO	15.78	9.44e4		92.0	944
4	4 200211D2_6	100	0.79	NO	15.78	9.87e4		96.1	987
5	5 200211D2_7	100	0.78	NO	15.78	1.13e5		110	1130
6	6 200211D2_8	100	0.78	NO	15.78	1.20e5		116	1200

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

	# Name	Resp	RA	n/y	RRF M...	w/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.982	1.000	17.23	0.22305	89.2	0.0931
2	2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	113.42	113	0.342
3	3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	100.00	100	0.371
4	4 13C-1,2,3,4-TCDD	1.04e5	0.79	NO	1030	1.000	15.78	101.65	102	0.291

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	6.08e2	0.66	NO	0.982	1.000	17.22	0.54947	110	0.147
2	2 13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	91.711	91.7	0.381
3	3 13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	100.00	100	0.412
4	4 13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1030	1.000	15.78	83.528	83.5	0.324

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.63e3	0.73	NO	0.982	1.000	17.23	2.0631	103	0.121
2	2 13C-2,3,7,8-TCDF	1.30e5	0.71	NO	1.08	1.000	17.20	89.279	89.3	0.292
3	3 13C-1,2,3,4-TCDF	1.34e5	0.74	NO	1.00	1.000	15.17	100.00	100	0.316
4	4 13C-1,2,3,4-TCDD	9.44e4	0.79	NO	1030	1.000	15.78	92.007	92.0	0.336

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.15e4	0.75	NO	0.982	1.000	17.23	9.3257	93.3	0.185
2	2 13C-2,3,7,8-TCDF	1.25e5	0.75	NO	1.08	1.000	17.20	100.76	101	0.364
3	3 13C-1,2,3,4-TCDF	1.15e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.394
4	4 13C-1,2,3,4-TCDD	9.87e4	0.79	NO	1030	1.000	15.78	96.149	96.1	0.331

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	5.76e4	0.74	NO	0.982	1.000	17.23	38.981	97.5	0.158
2	2 13C-2,3,7,8-TCDF	1.51e5	0.71	NO	1.08	1.000	17.20	102.61	103	0.300
3	3 13C-1,2,3,4-TCDF	1.35e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.325
4	4 13C-1,2,3,4-TCDD	1.13e5	0.78	NO	1030	1.000	15.78	110.19	110	0.311

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	4.81e5	0.73	NO	0.982	1.000	17.23	321.06	107	0.243
2	2 13C-2,3,7,8-TCDF	1.52e5	0.72	NO	1.08	1.000	17.20	102.22	102	0.295
3	3 13C-1,2,3,4-TCDF	1.38e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.319
4	4 13C-1,2,3,4-TCDD	1.20e5	0.78	NO	1030	1.000	15.78	116.47	116	0.322

Dataset: Untitled

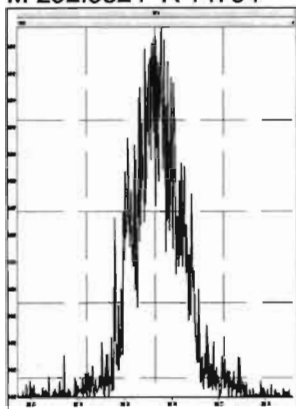
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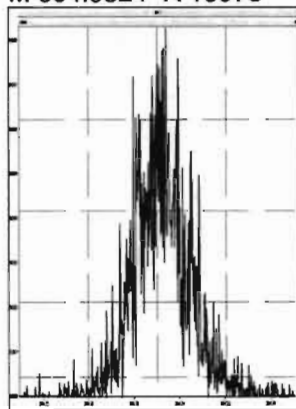
Compound name: 2,3,7,8-TCDF

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1	200211D2_1	SOLVENT BLANK	11-Feb-20	19:58:43
2	200211D2_2	CP200211D2-1 DB-225 CPSM	11-Feb-20	20:28:53
3	200211D2_3	ST200211D2-1 1613 CS0 19L2302	11-Feb-20	21:00:36
4	200211D2_4	ST200211D2-2 1613 CS1 19L2303	11-Feb-20	21:32:19
5	200211D2_5	ST200211D2-3 1613 CS2 19L2304	11-Feb-20	22:04:03
6	200211D2_6	ST200211D2-4 1613 CS3 19L2305	11-Feb-20	22:35:45
7	200211D2_7	ST200211D2-5 1613 CS4 19L2306	11-Feb-20	23:07:28
8	200211D2_8	ST200211D2-6 1613 CS5 19L2307	11-Feb-20	23:39:11
9	200211D2_9	SOLVENT BLANK	12-Feb-20	00:10:54
10	200211D2_10	SS200211D2-1 1613 SSS 19L2308	12-Feb-20	00:42:33
11	200211D2_11	SOLVENT BLANK	12-Feb-20	01:14:15
12	200211D2_12	1903740-08RE1 PDI-097SC-B-06-08-191017 ...	12-Feb-20	01:45:58
13	200211D2_13	1903740-07RE1 PDI-097SC-B-04-06-191017 ...	12-Feb-20	02:17:39
14	200211D2_14	1903740-06RE1 PDI-097SC-B-02-04-191017 ...	12-Feb-20	02:49:21
15	200211D2_15	1903740-01RE1 PDI-031SC-B-00-02-191017 ...	12-Feb-20	03:21:03
16	200211D2_16	1903740-05RE1 PDI-097SC-B-00-02-191017 ...	12-Feb-20	03:52:45

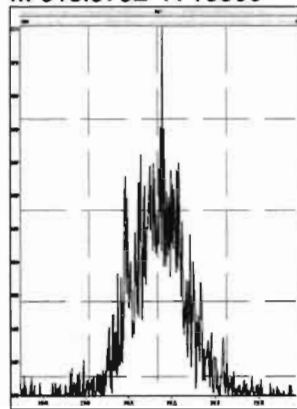
M 292.9824 R 14754



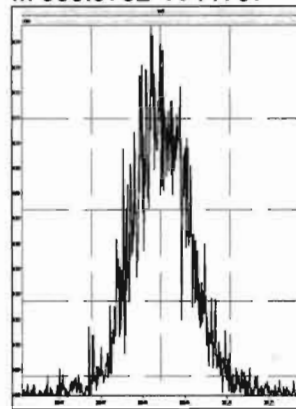
M 304.9824 R 15978



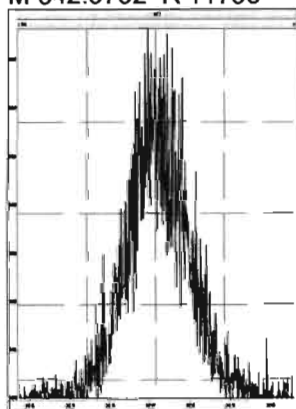
M 318.9792 R 15503



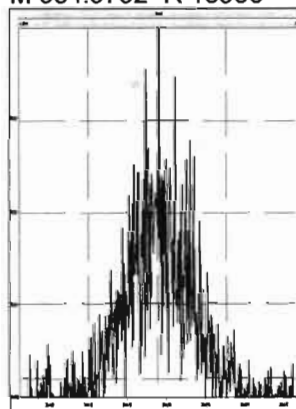
M 330.9792 R 11737



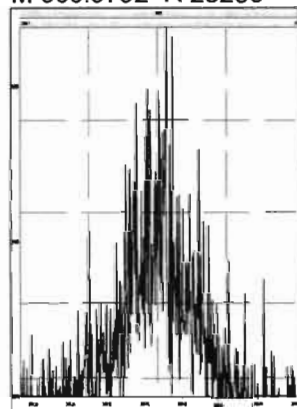
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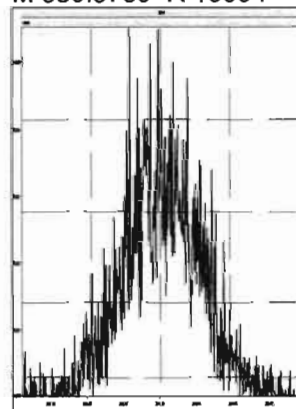
M 354.9792 R 15966

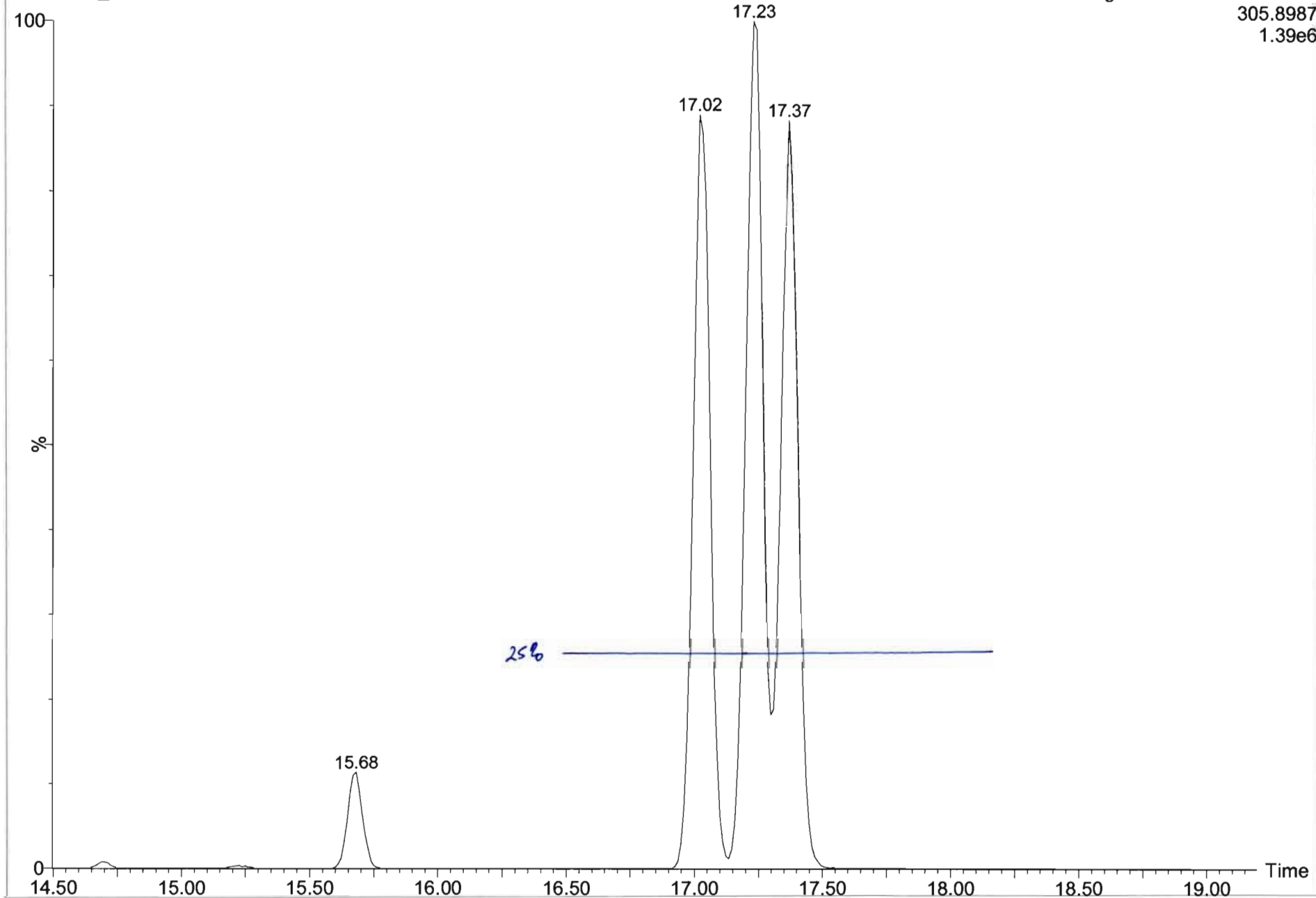


M 366.9792 R 28256



M 380.9760 R 13094





Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

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Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

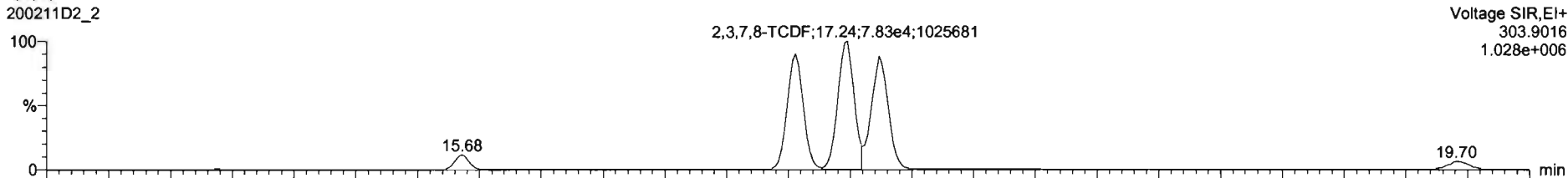
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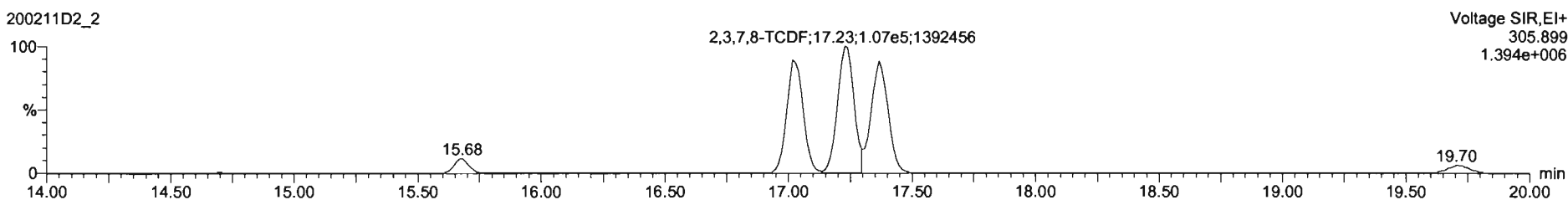
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2,3,7,8-TCDF

200211D2_2

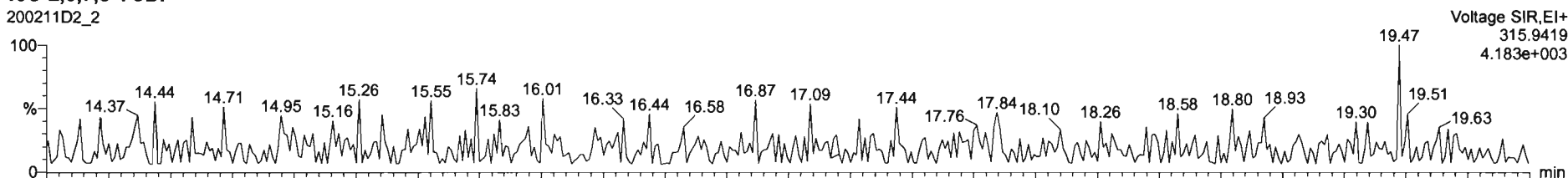


200211D2_2

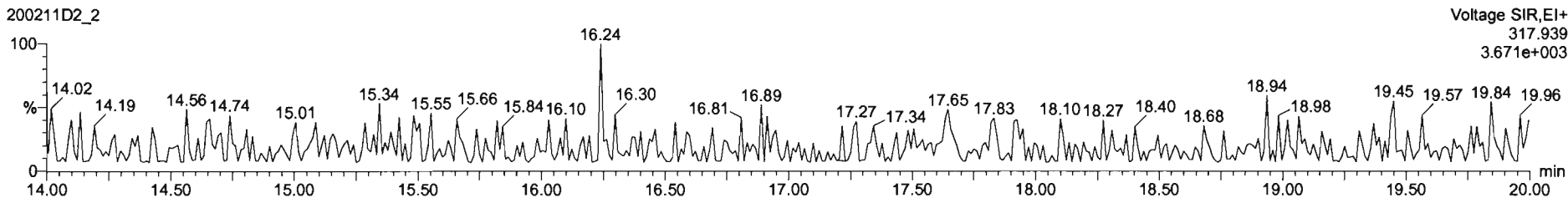


13C-2,3,7,8-TCDF

200211D2_2



200211D2_2

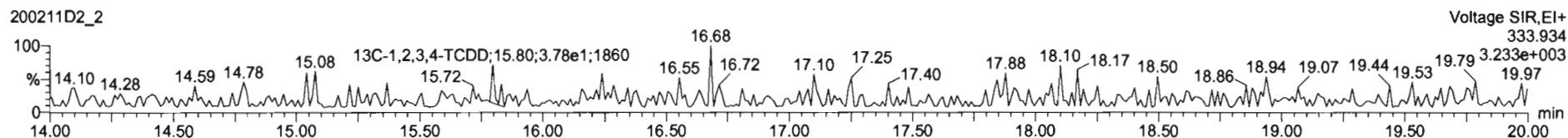
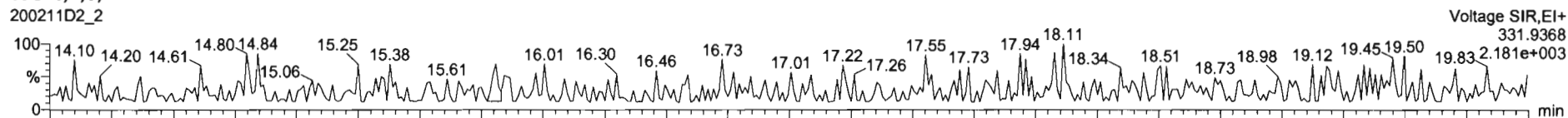


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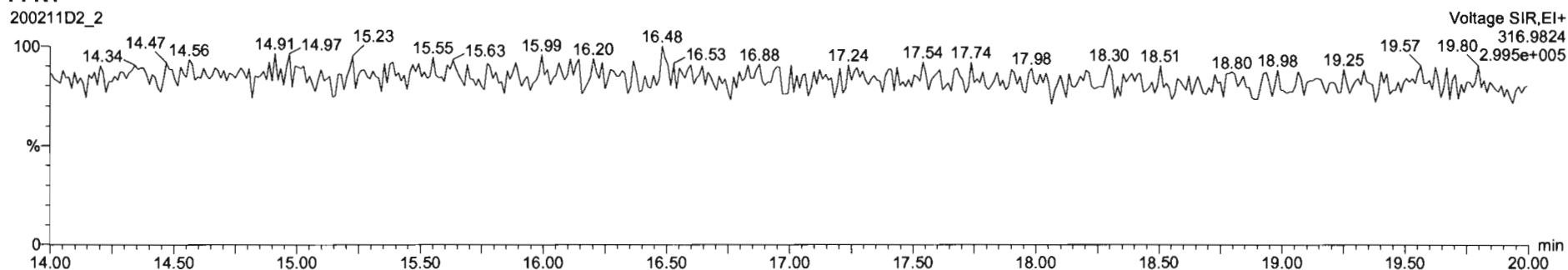
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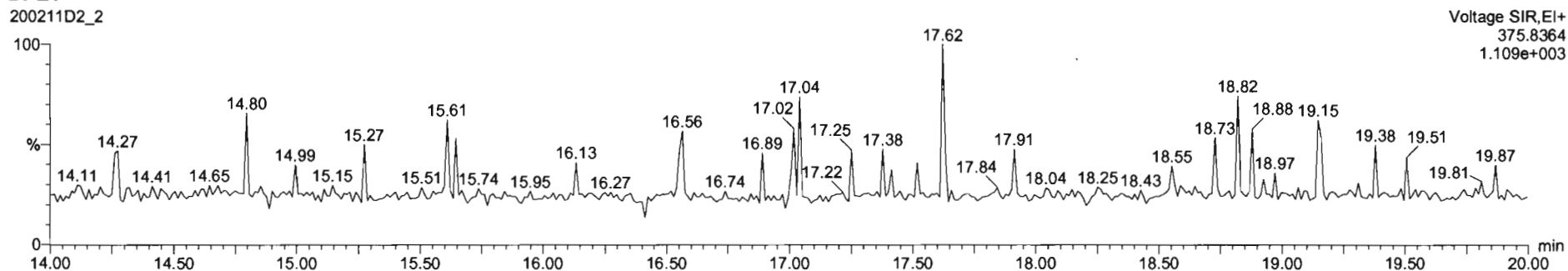
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

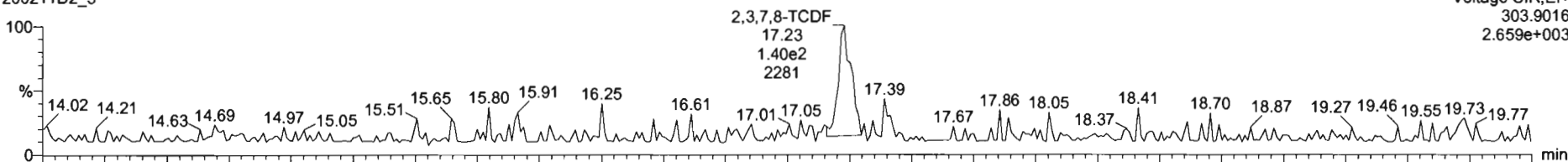
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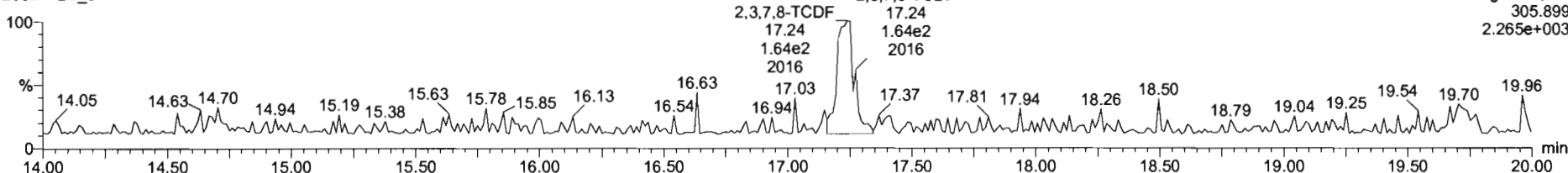
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2,3,7,8-TCDF

200211D2_3

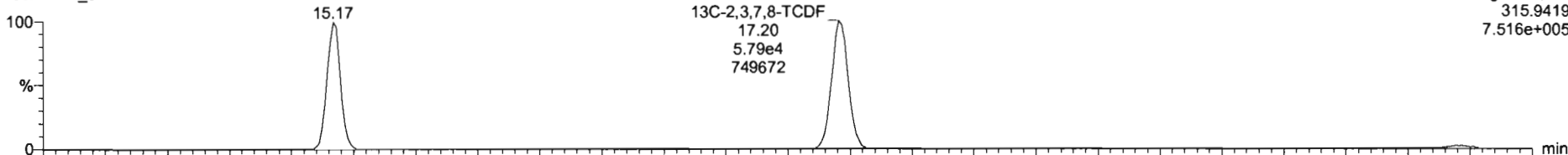


200211D2_3

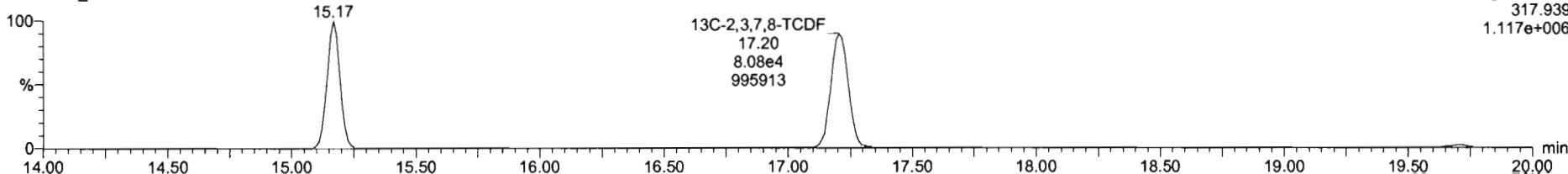


13C-2,3,7,8-TCDF

200211D2_3



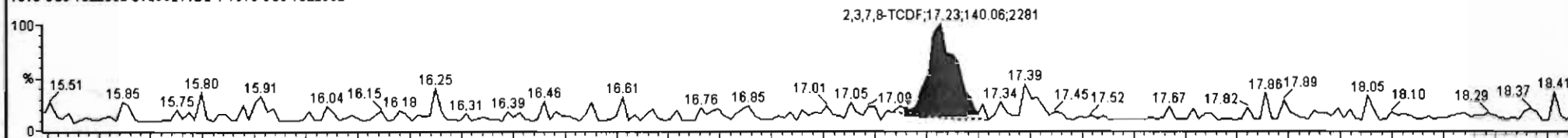
200211D2_3



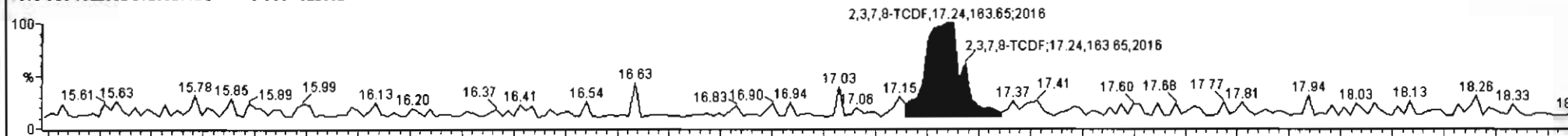
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	0.79	NO	1026.38	1.000	15.78	0.000	102	102	0.291	
5 PFOS					1.000						
6 DPE1					1.000						

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

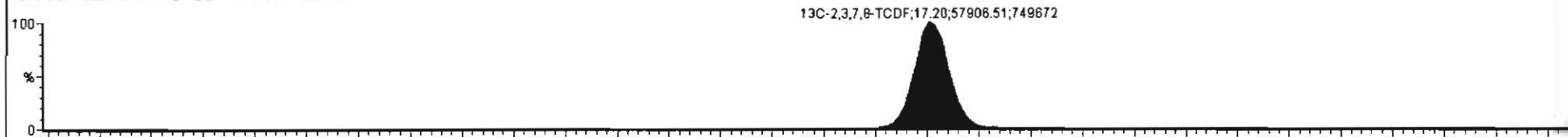
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



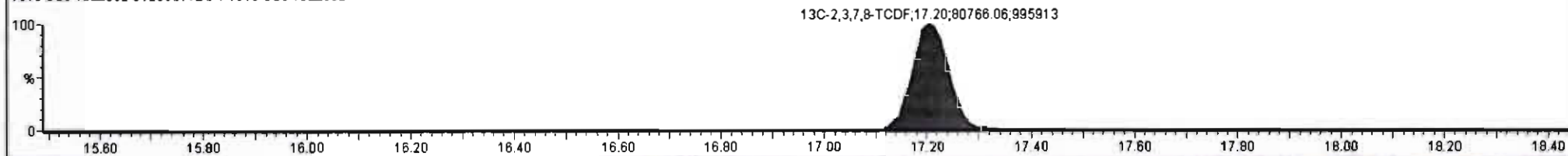
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



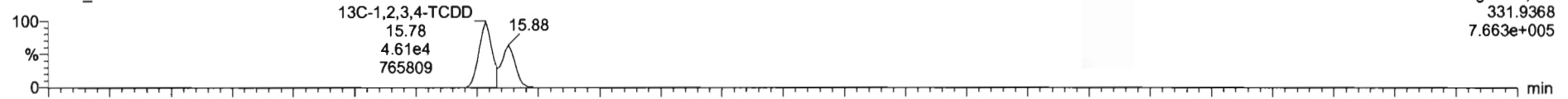
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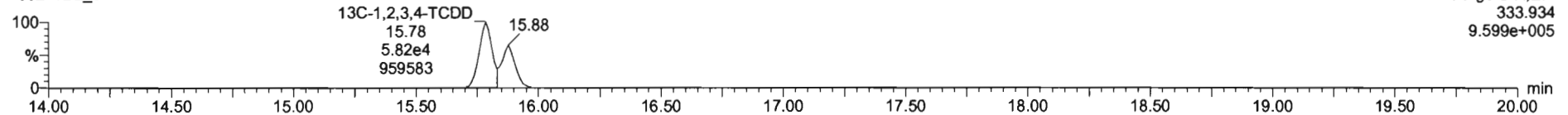
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13C-1,2,3,4-TCDD

200211D2_3

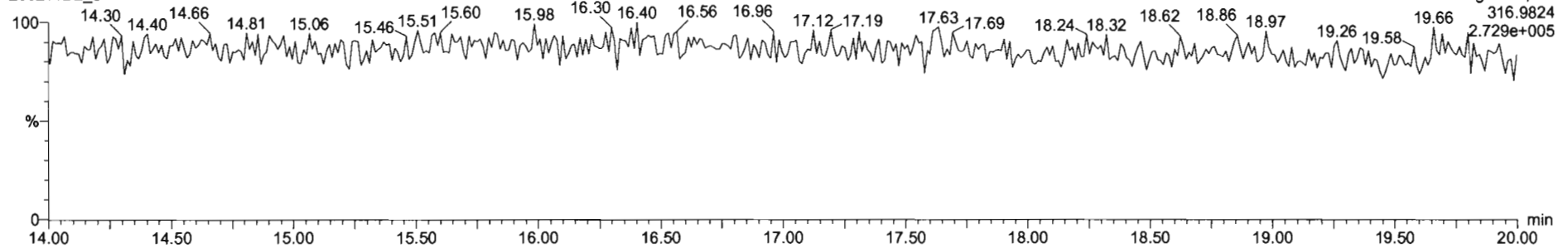


200211D2_3



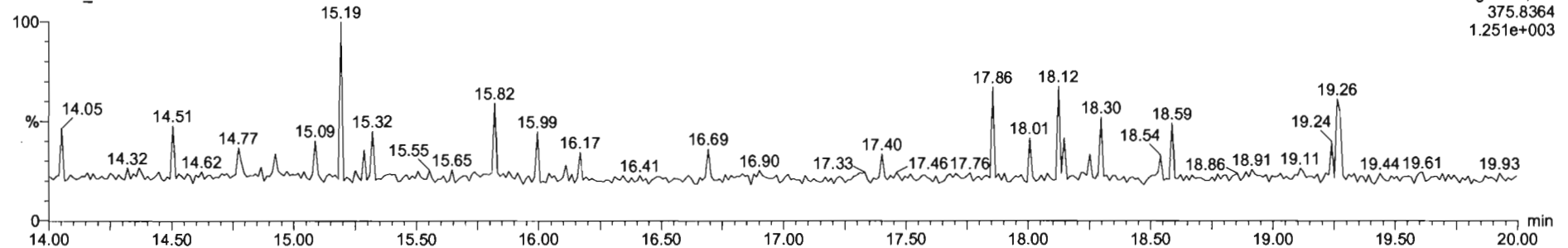
PFK1

200211D2_3



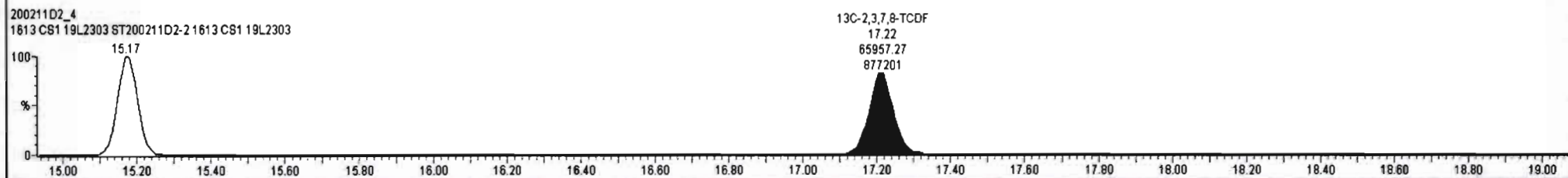
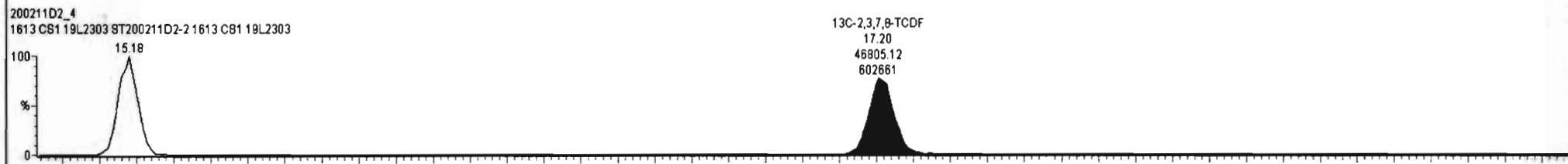
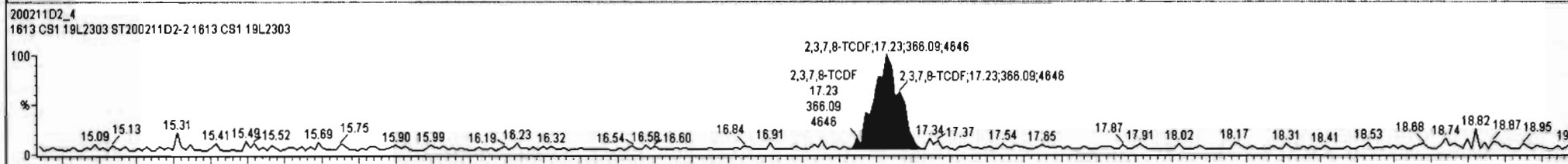
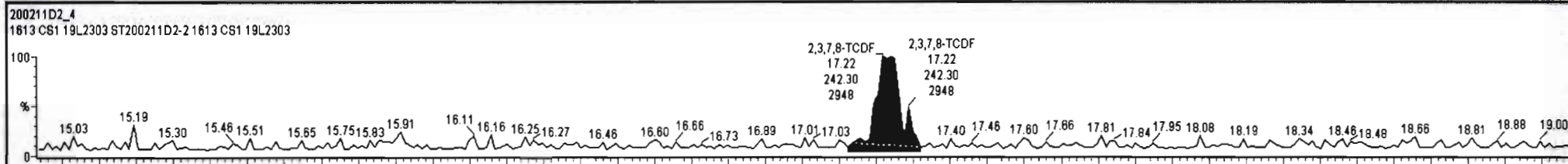
DPE1

200211D2_3



#	Name	Resp	RA	ruy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
1	2,3,7,8-TCDF	8.08e2	0.66	NO	0.98	1.000	17.22	1.001	0.548	110	0.147	0.548
2	13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	1.133	91.7	91.7	0.381	
3	13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	1.000	100	100	0.412	
4	13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1026.38	1.000	15.78	0.000	83.5	83.5	0.324	
5	PFK1					1.000						
6	DPF1					1.000						

#	Name	RT	int Resp	m2 Resp	RA	ruy	EWPC	Conc.
1								



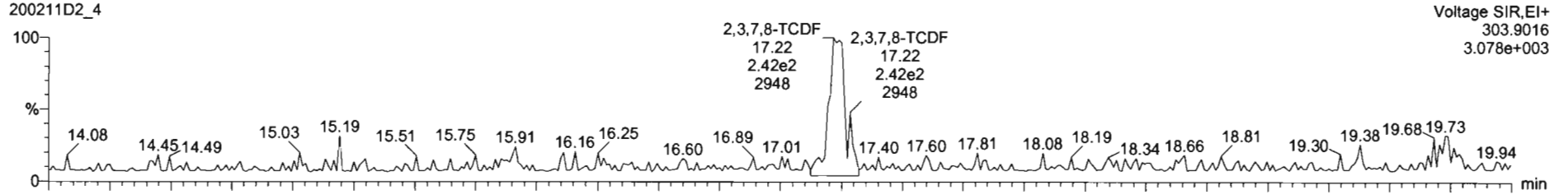
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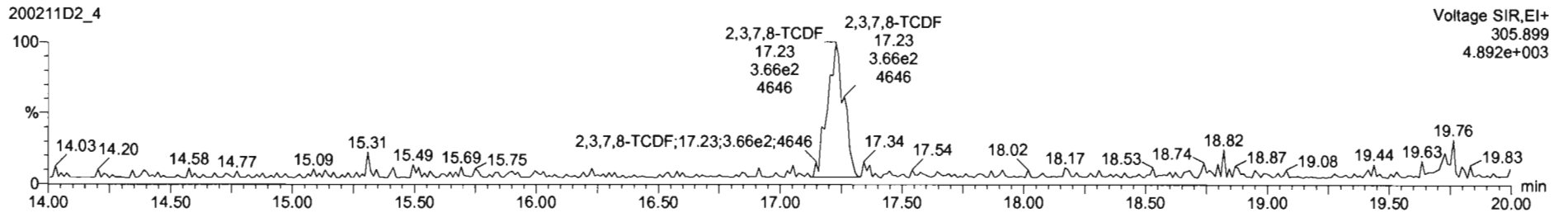
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2,3,7,8-TCDF

200211D2_4

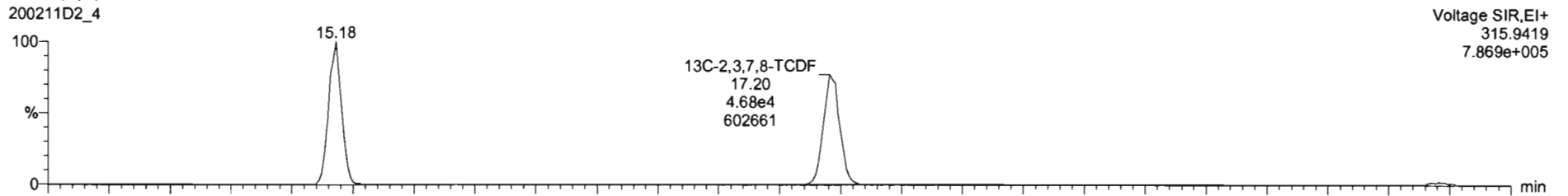


200211D2_4

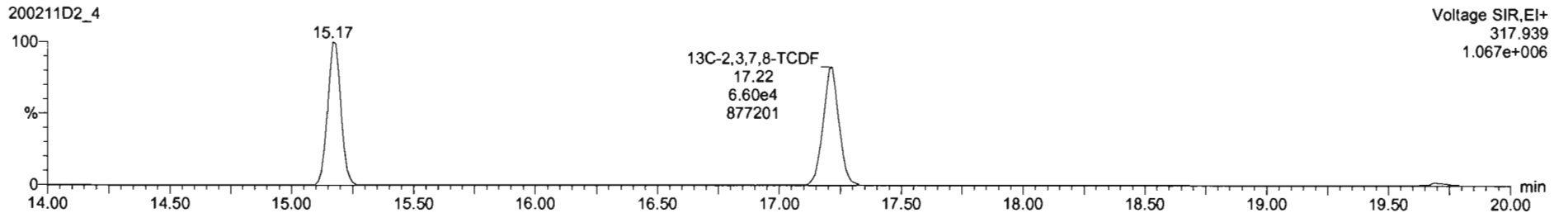


13C-2,3,7,8-TCDF

200211D2_4



200211D2_4



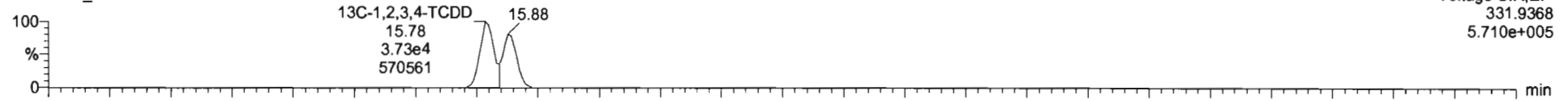
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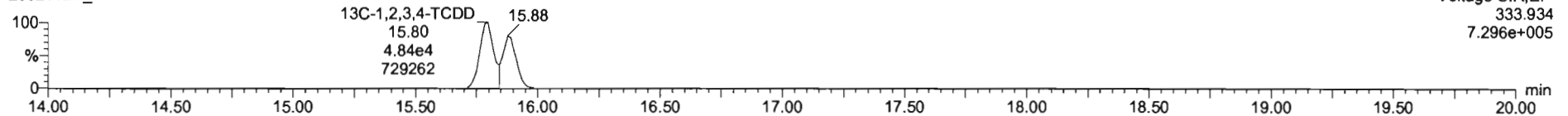
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13C-1,2,3,4-TCDD

200211D2_4

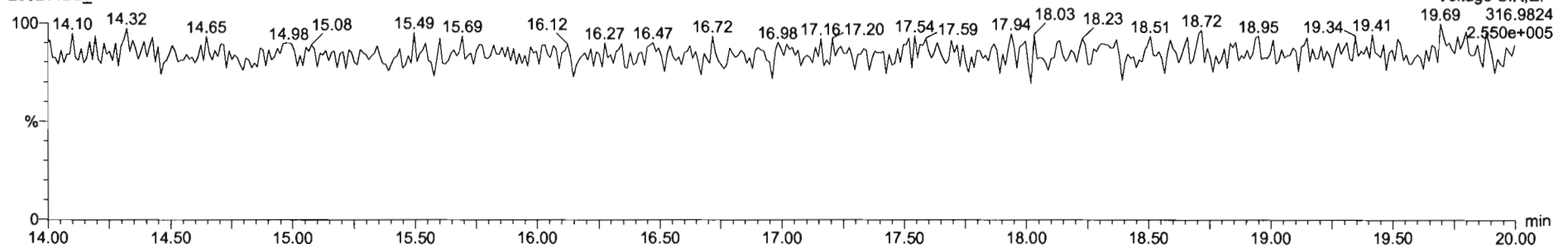


200211D2_4



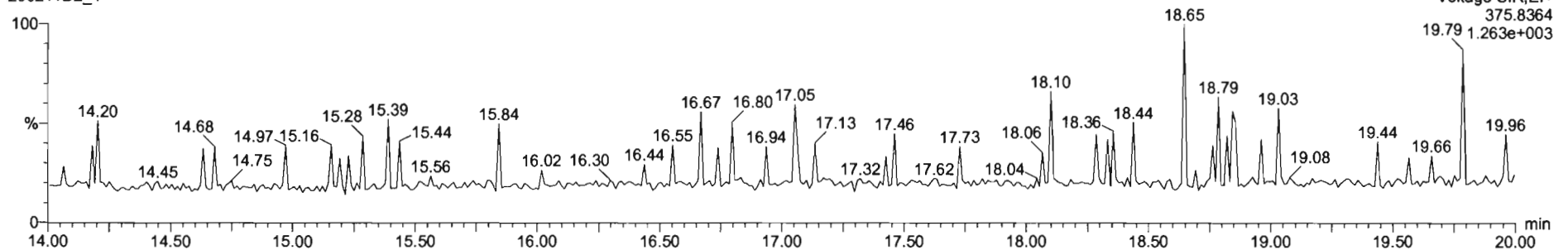
PFK1

200211D2_4



DPE1

200211D2_4



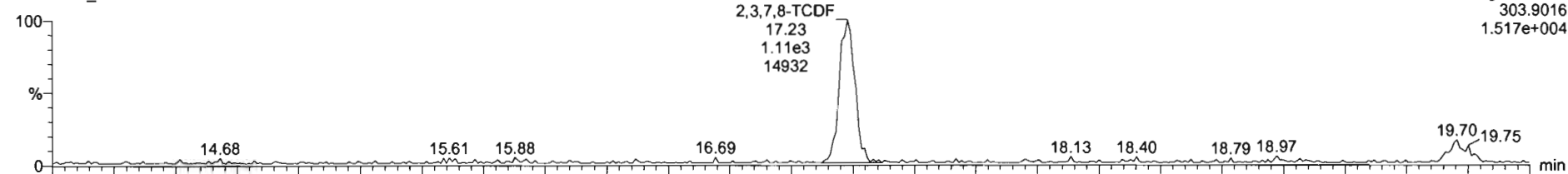
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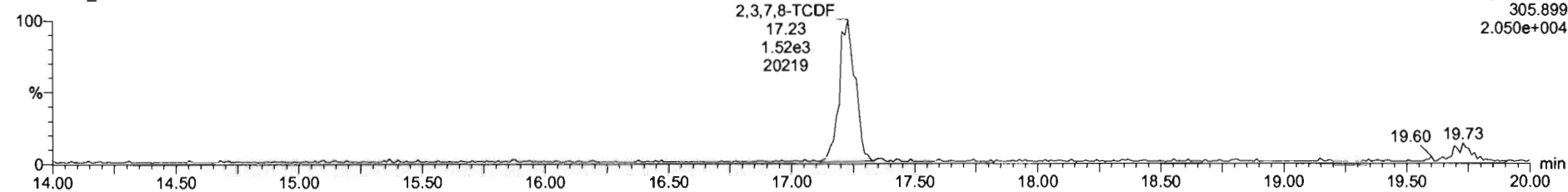
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2,3,7,8-TCDF

200211D2_5

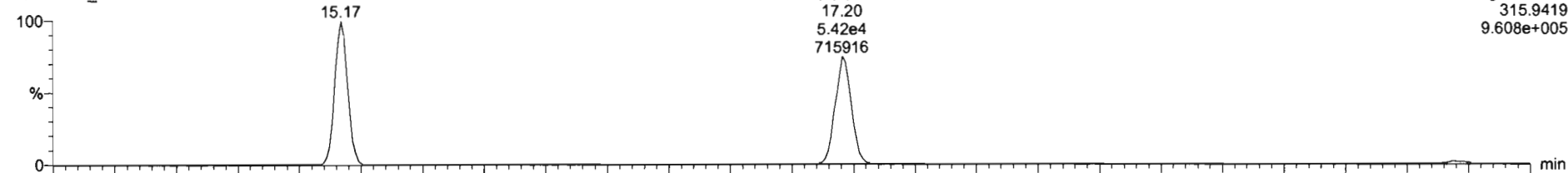


200211D2_5

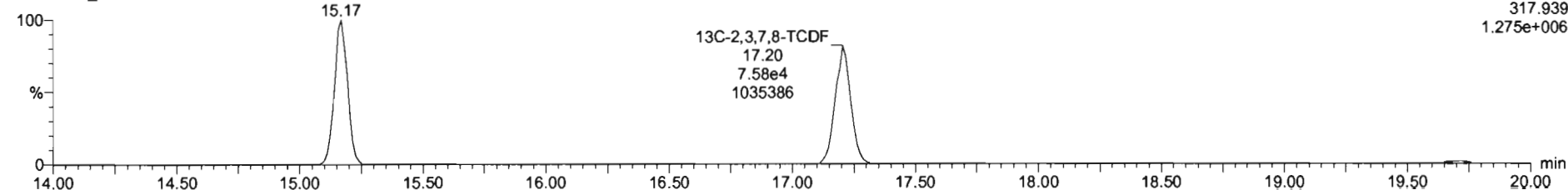


13C-2,3,7,8-TCDF

200211D2_5



200211D2_5

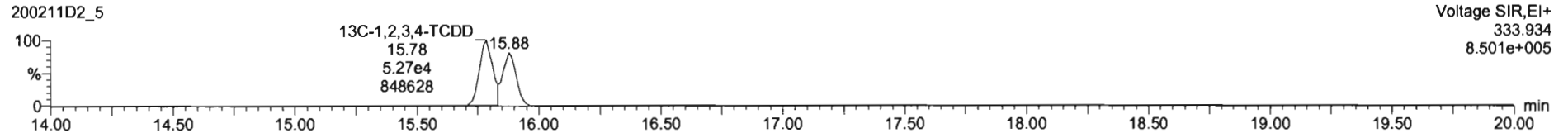
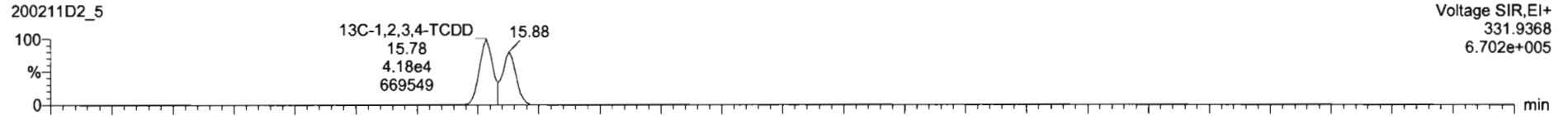


Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

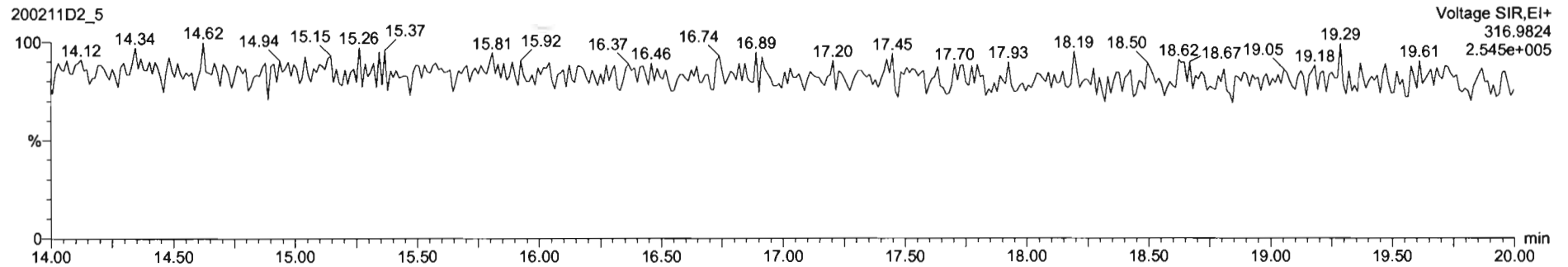
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

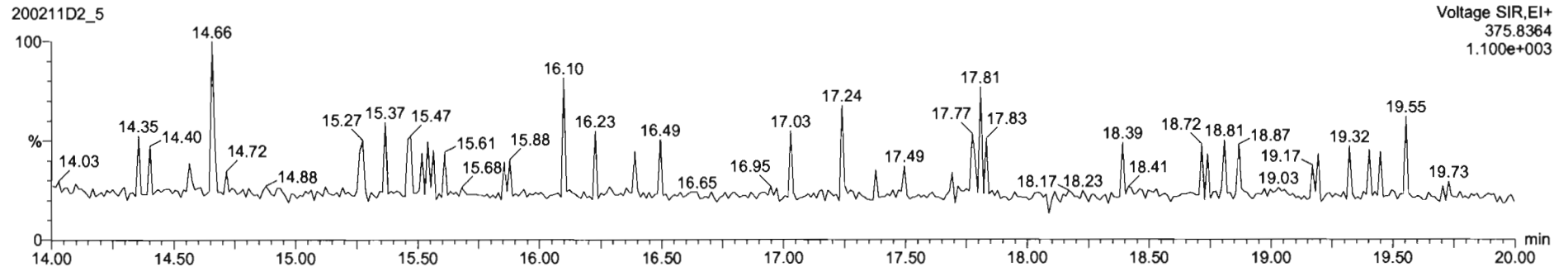
13C-1,2,3,4-TCDD



PFK1



DPE1



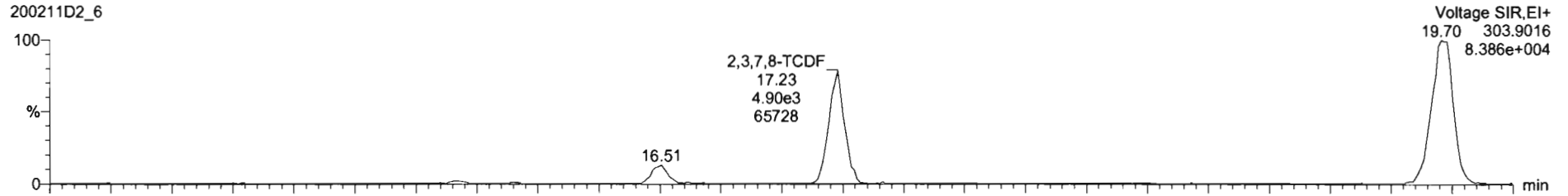
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

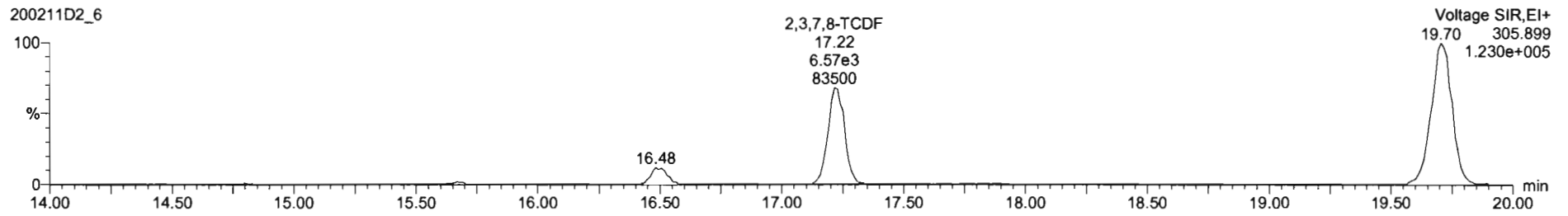
Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200211D2_6

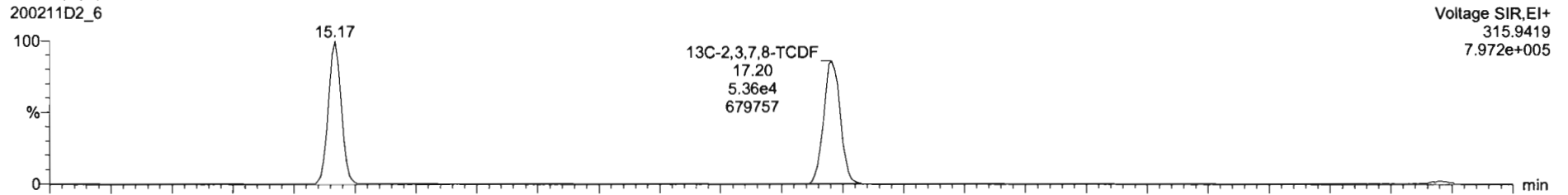


200211D2_6

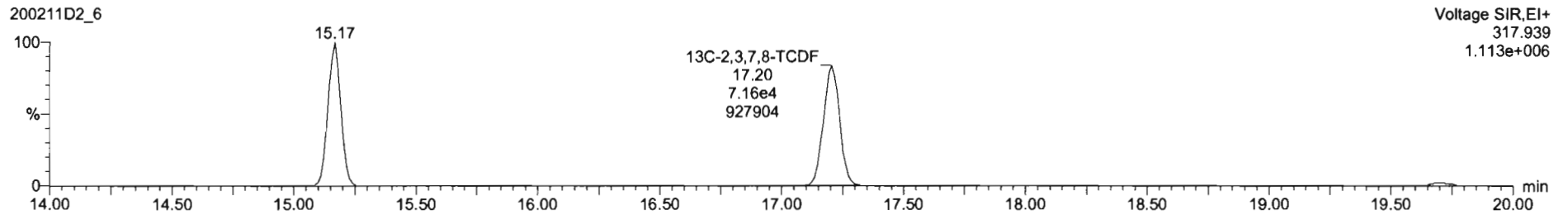


13C-2,3,7,8-TCDF

200211D2_6



200211D2_6



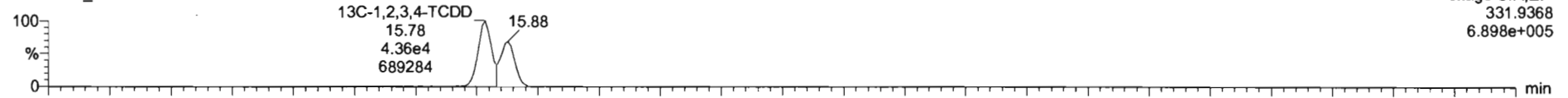
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

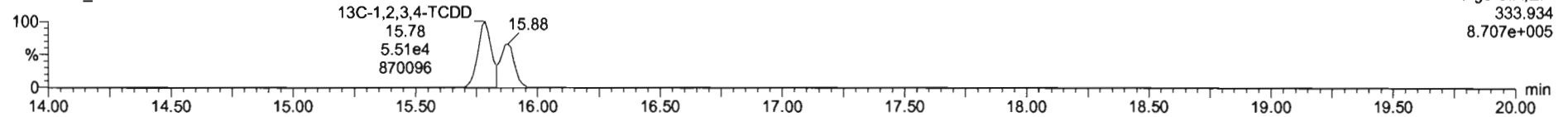
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13C-1,2,3,4-TCDD

200211D2_6

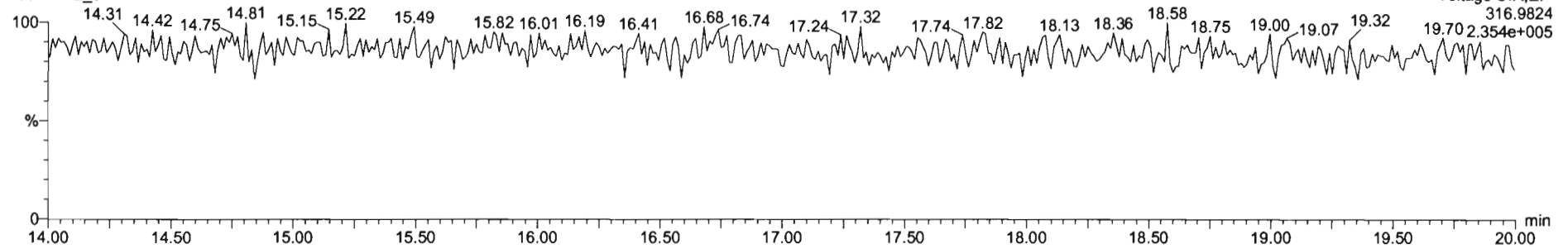


200211D2_6



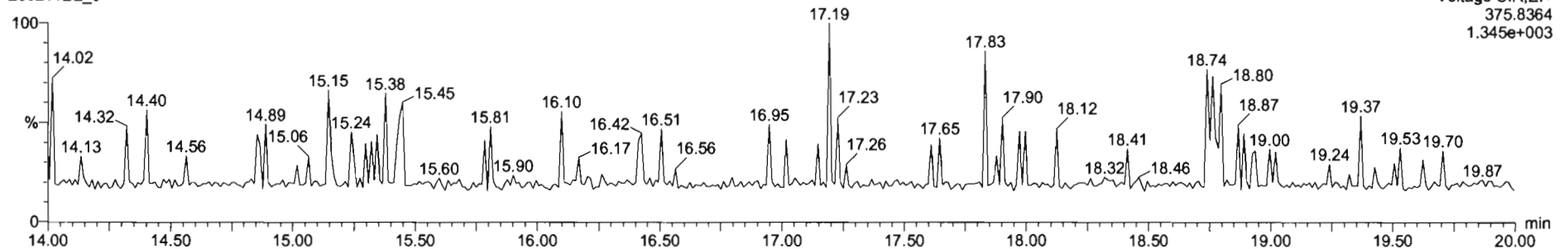
PFK1

200211D2_6



DPE1

200211D2_6



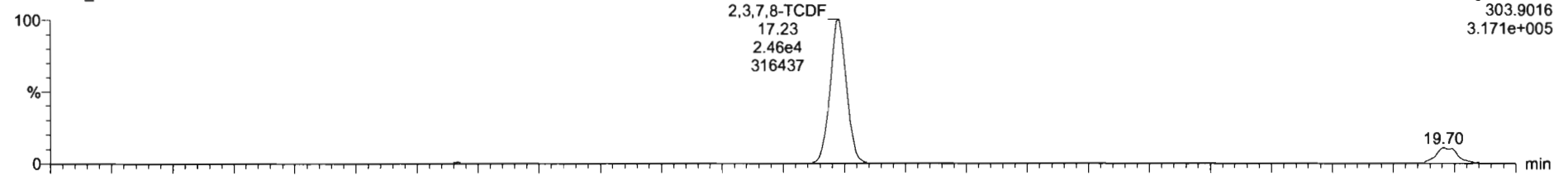
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

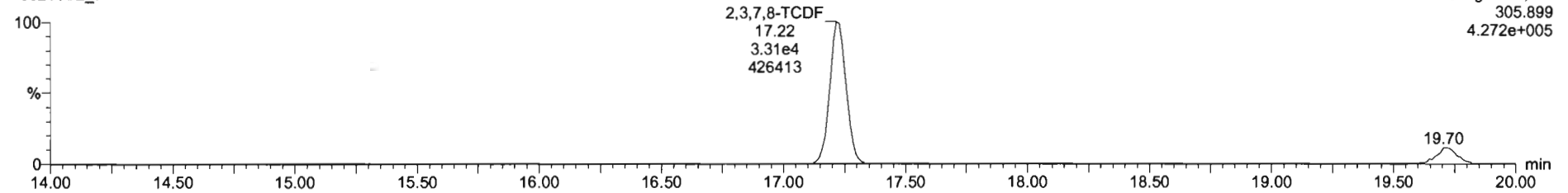
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

2,3,7,8-TCDF

200211D2_7

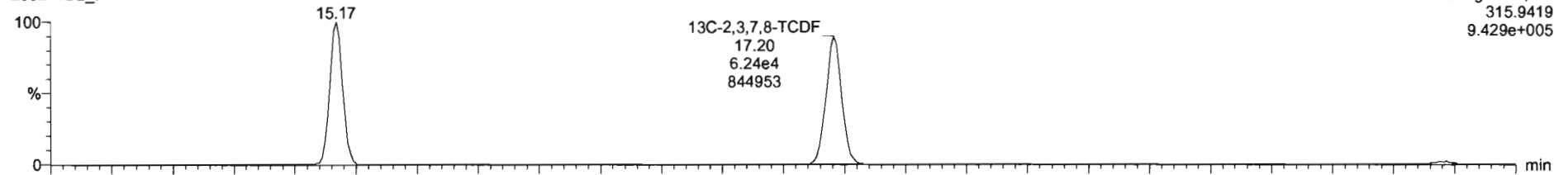


200211D2_7

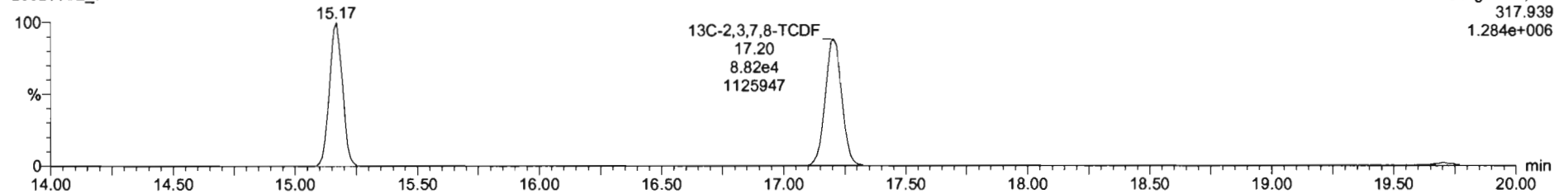


13C-2,3,7,8-TCDF

200211D2_7



200211D2_7



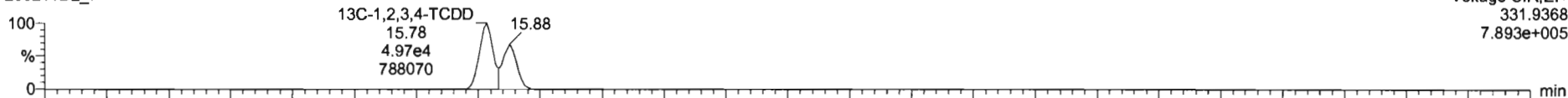
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

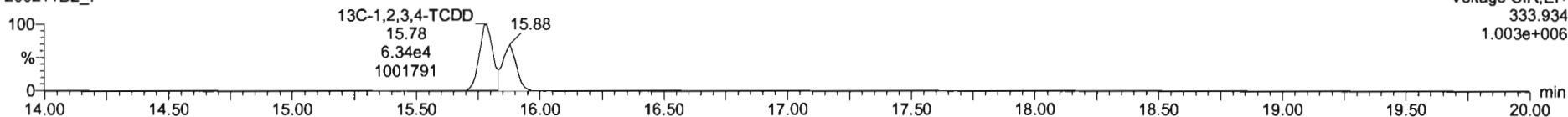
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13C-1,2,3,4-TCDD

200211D2_7

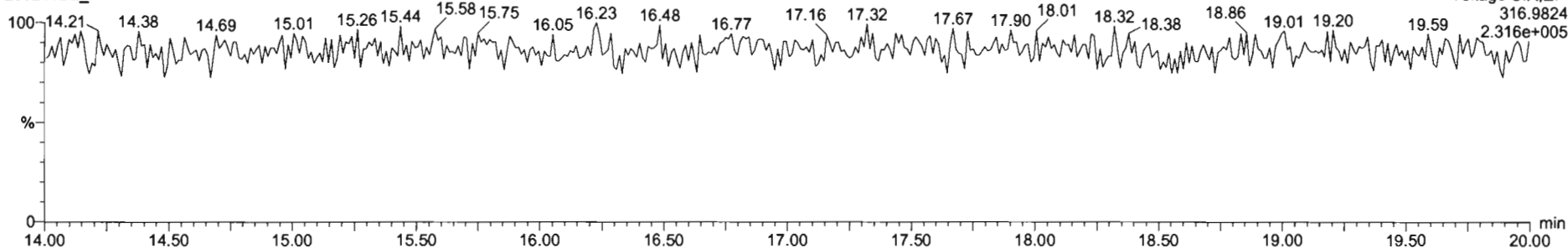


200211D2_7



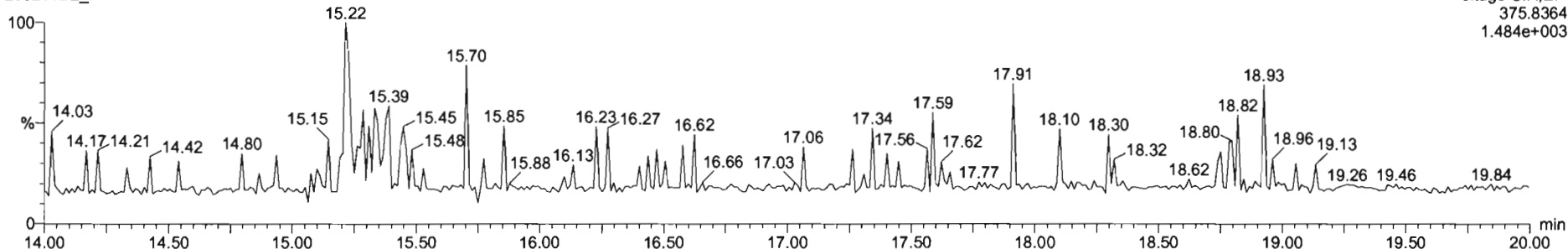
PFK1

200211D2_7



DPE1

200211D2_7



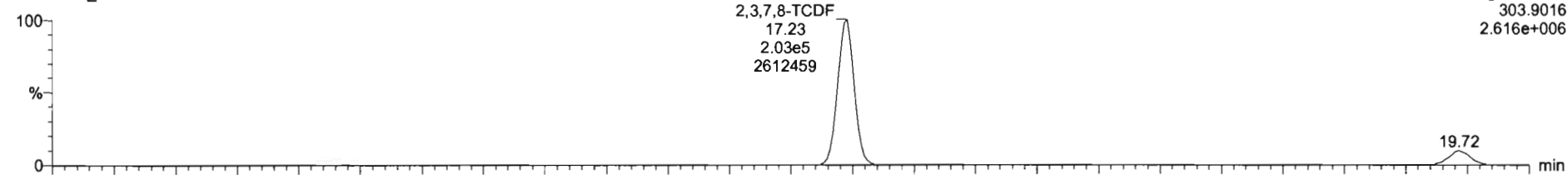
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

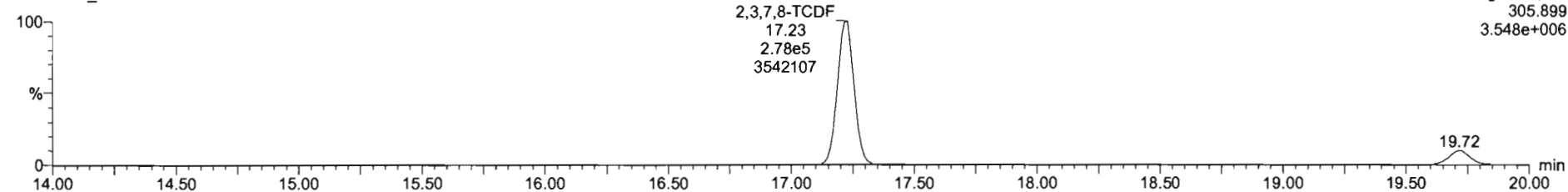
2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
303.9016
2.616e+006

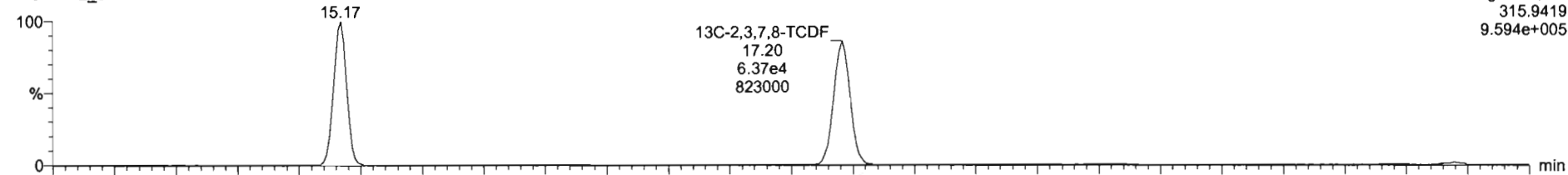
200211D2_8



Voltage SIR,EI+
305.899
3.548e+006

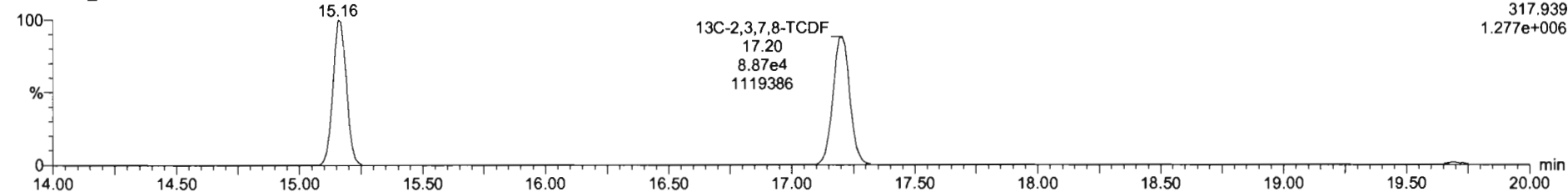
13C-2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
315.9419
9.594e+005

200211D2_8



Voltage SIR,EI+
317.939
1.277e+006

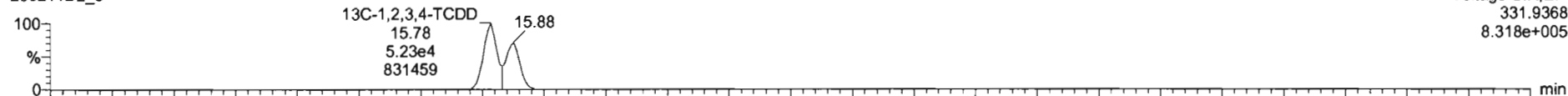
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

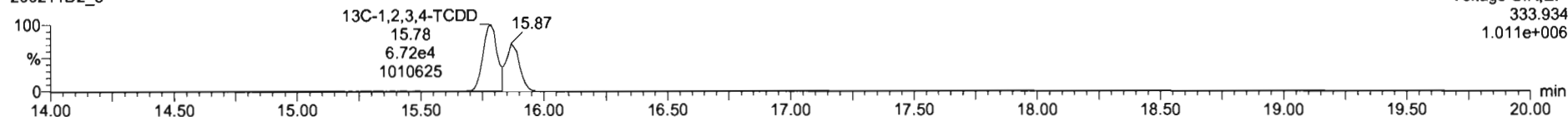
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13C-1,2,3,4-TCDD

200211D2_8

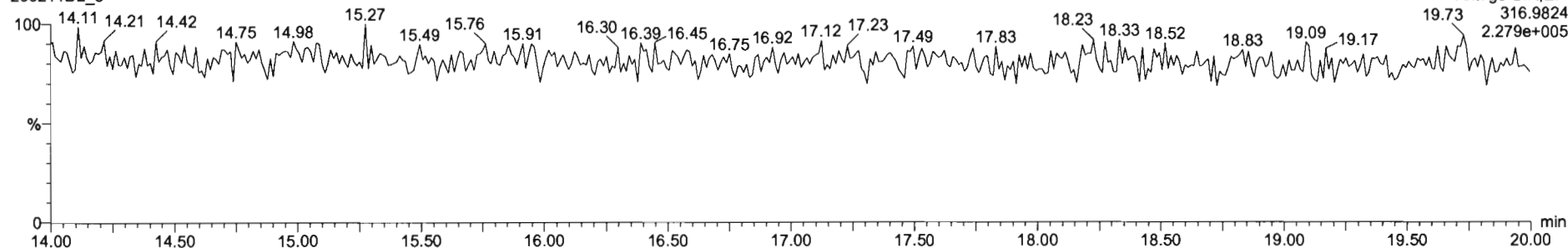


200211D2_8



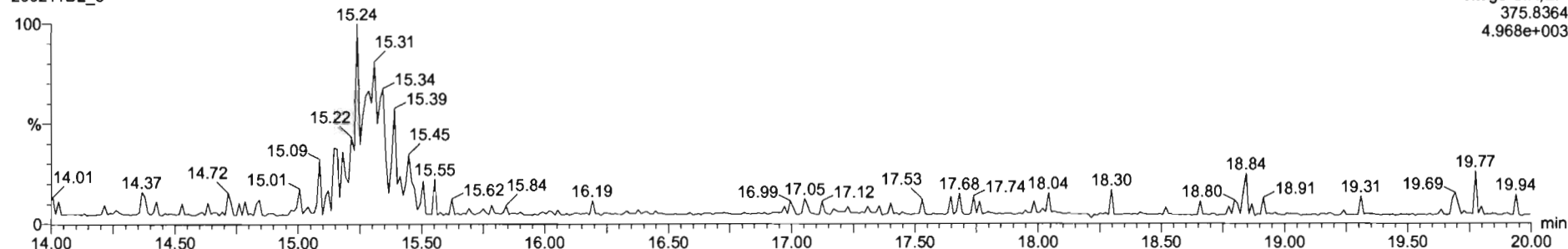
PFK1

200211D2_8

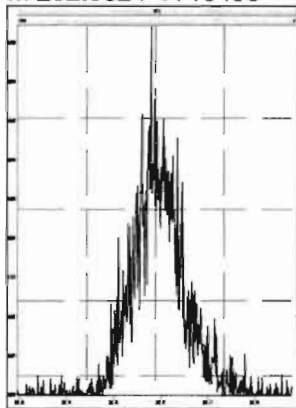


DPE1

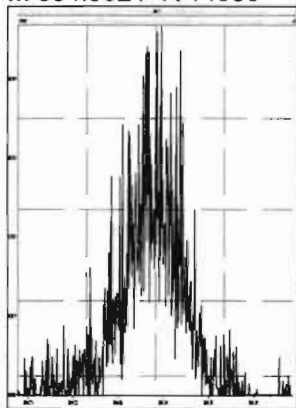
200211D2_8



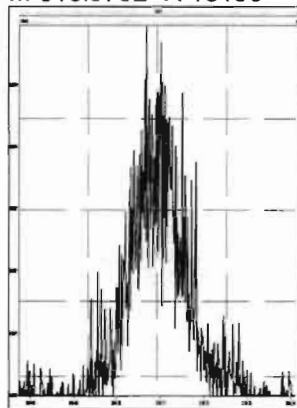
M 292.9824 R 13493



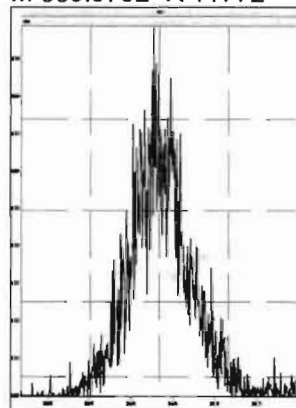
M 304.9824 R 14983



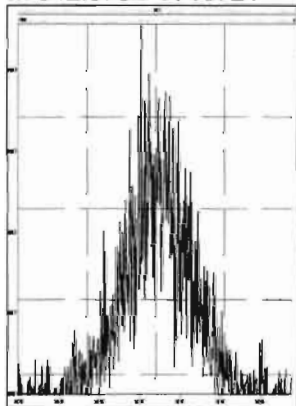
M 318.9792 R 15196



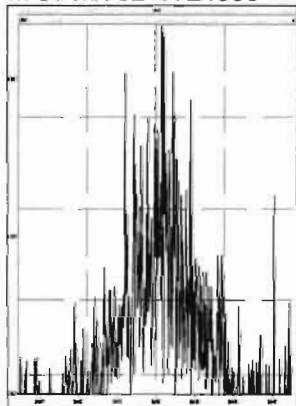
M 330.9792 R 11772



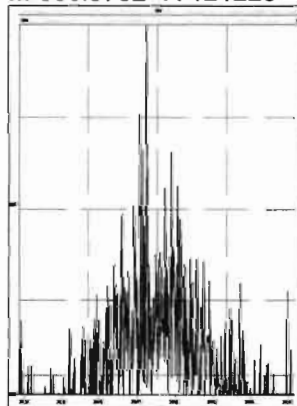
M 342.9792 R 13721



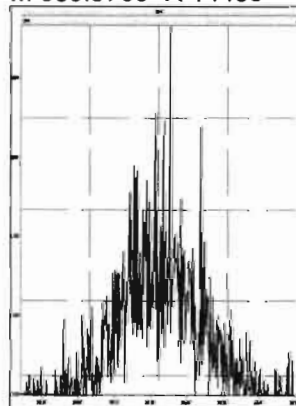
M 354.9792 R 24553



M 366.9792 R 121228



M 380.9760 R 14409



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:52:52 Pacific Standard Time

DB 2/12/20 07:52/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.29e4	0.77	NO	0.982	1.000	17.22	10.800	108	0.183
2	13C-2,3,7,8-TCDF	1.22e5	0.73	NO	1.08	1.000	17.20	92.025	92.0	0.305
3	13C-1,2,3,4-TCDF	1.22e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.330
4	13C-1,2,3,4-TCDD	8.99e4	0.76	NO	1030	1.000	15.78	87.563	87.6	0.304

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

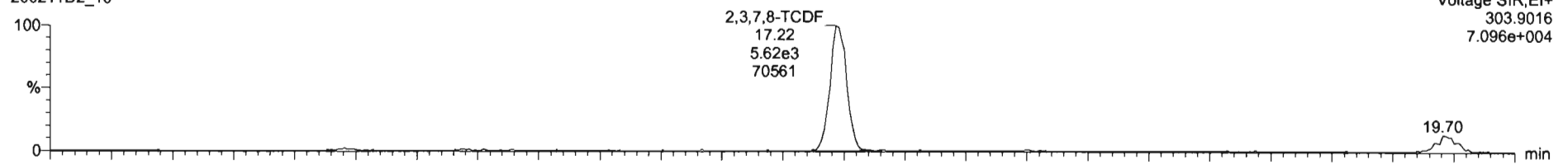
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

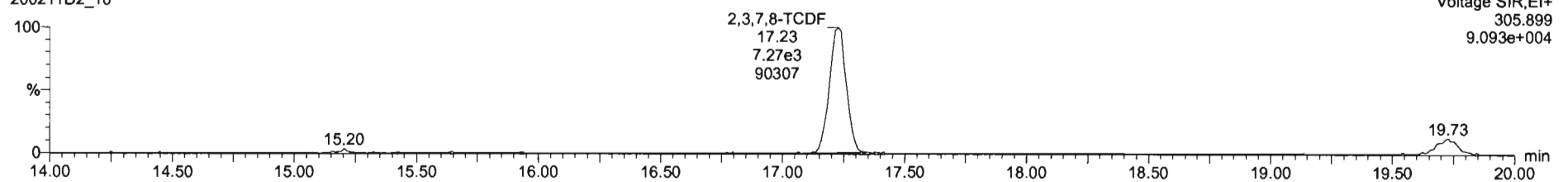
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDF

200211D2_10

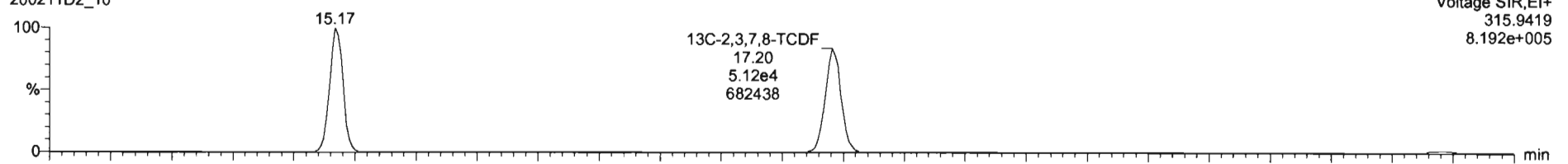


200211D2_10

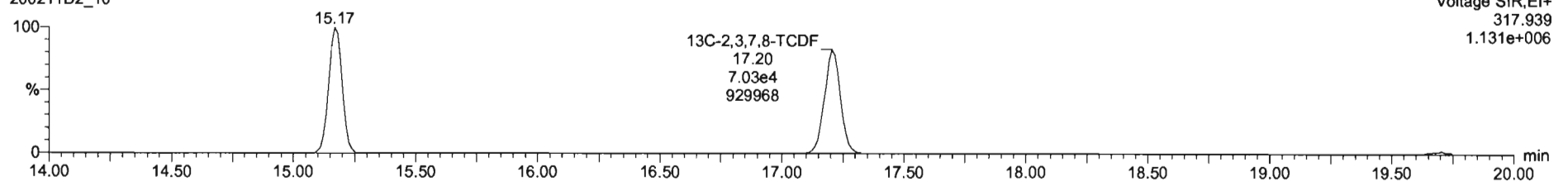


13C-2,3,7,8-TCDF

200211D2_10



200211D2_10



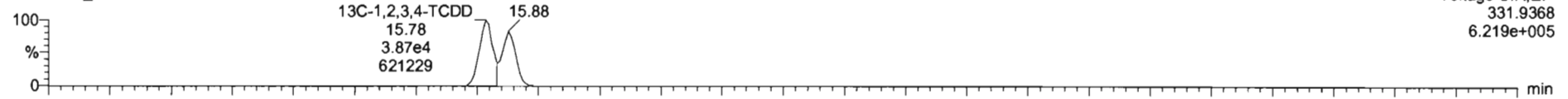
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

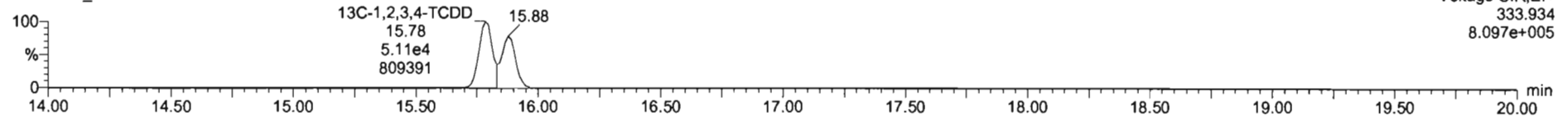
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2_10

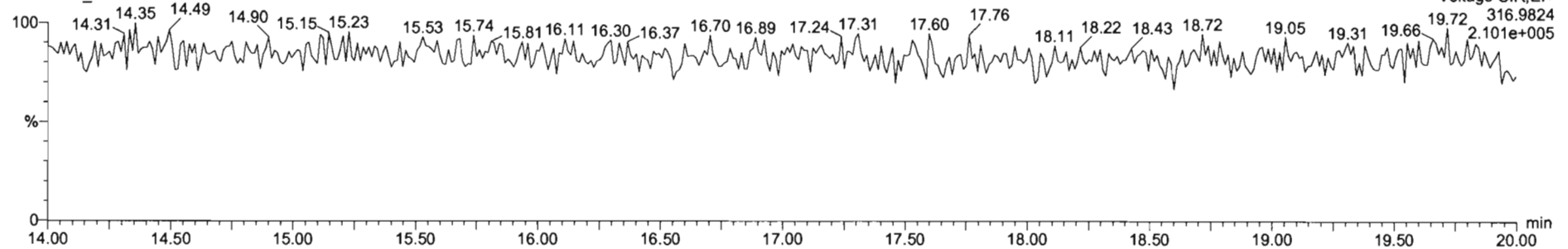


200211D2_10



PFK1

200211D2_10



DPE1

200211D2_10

